Appendix C: Grid Benefits Achieved in Each Instance of Active Management

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/22/2024 7:52	60201	ATGL_T2	0	0	0	0	0	0	-0.06	-0.02	1	1	0	600	600	0
3/22/2024 7:53	45501	DERR_T2	0	0	0	0	0	0	1.07	1.13	2	2	0	1800	1800	0
3/22/2024 7:54	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/22/2024 7:56	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
3/22/2024 7:57	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/22/2024 8:00	25402	LAHA_T2	0	0	0	0	0	0	-0.61	-0.58	0	0	0	0	0	0
3/22/2024 8:01	40101	HUNT_T2	0	0	0	0	0	0	-0.3	-0.27	0	0	0	0	0	0
3/22/2024 8:12	52404	GRPA_T2	0	0	0	0	0	0	0.51	0.38	0	0	0	0	0	0
3/22/2024 8:15	52404	GRPA_T2	0	0	0	0	0	0	0.51	0.38	0	0	0	0	0	0
3/22/2024 8:24	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
3/22/2024 8:28	29402	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 8:29	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
3/22/2024 8:31	48301	ORWI_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
3/22/2024 8:38	53601	DALM_T2	0	0	0	0	0	0	-0.45	-0.48	1	1	0	900	900	0
3/22/2024 8:40	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 9:03	48301	ORWI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 9:13	46203	DANV_T2	0	0	0	0	0	0	-0.78	-0.76	0	0	0	0	0	0
3/22/2024 9:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 9:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 9:18	41902	REED_T1	0	0	0	0	0	0	1.27	1.24	0	0	0	0	0	0
3/22/2024 9:19	13503	MCMI_T2	0	0	0	0	0	0	-0.7	-0.74	0	0	0	0	0	0
3/22/2024 9:19	41902	REED_T1	0	0	0	0	0	0	1.27	1.24	0	0	0	0	0	0
3/22/2024 9:22	67402	WAKE_T2	0	0	0	0	0	0	0.58	0.56	1	1	0	600	600	0
3/22/2024 9:23	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/22/2024 9:24	46203	DANV_T2	0	0	0	0	0	0	-0.76	-0.75	0	0	0	0	0	0
3/22/2024 9:25	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
3/22/2024 9:25	10805	CHHI_T2	0	0	0	0	0	0	-0.46	-0.41	1	1	0	600	600	0
3/22/2024 9:26	29402	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 9:27	45501	DERR_T2	0	0	0	0	0	0	0.93	1.04	2	2	0	1800	1800	0
3/22/2024 9:27	40101	HUNT_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
3/22/2024 9:28	10801	CHHI_T1	0	0	0	0	0	0	-1.07	-1.22	2	2	0	1500	1500	0
3/22/2024 9:33	10801	CHHI_T1	0	0	0	0	0	0	-1.07	-1.22	2	2	0	1500	1500	0
3/22/2024 9:35	13901	SEID_T1	0	0	0	0	0	0	-1.07	-1.07	1	1	0	1200	1200	0
3/22/2024 9:36	48302	ORWI_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
3/22/2024 9:36	67204	TEHI_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
3/22/2024 9:37	16503	STRO_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
3/22/2024 9:37	14403	SSLA_T1	0	0	0	0	0	0	1.09	1.04	0	0	0	0	0	0
3/22/2024 9:38	14403	SSLA_T1	0	0	0	0	0	0	1.04	1.06	0	0	0	0	0	0
3/22/2024 9:38	10801	CHHI_T1	0	0	0	0	0	0	-1.22	-1.29	2	2	0	1500	1500	0
3/22/2024 9:38	67204	TEHI_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
3/22/2024 9:39	56802	BENV_T2	0	0	0	0	0	0	-2.69	-2.7	0	0	0	0	0	0
3/22/2024 9:40	10801	CHHI_T1	0	0	0	0	0	0	-1.22	-1.29	2	2	0	1500	1500	0
3/22/2024 9:40	56802	BENV_T2	0	0	0	0	0	0	-1.35	-1.35	0	0	0	0	0	0
3/22/2024 9:41	56802	BENV_T2	0	0	0	0	0	0	-1.35	-1.35	0	0	0	0	0	0
3/22/2024 9:42	56802	BENV_T2	0	0	0	0	0	0	-2.69	-2.7	0	0	0	0	0	0
3/22/2024 9:42	52403	GRPA_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
3/22/2024 9:44	52402	GRPA_T2	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
3/22/2024 9:44	10801	CHHI_T1	0	0	0	0	0	0	-1.22	-1.29	2	2	0	1500	1500	0
3/22/2024 9:45	13503	MCMI_T2	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
3/22/2024 9:46	52402	GRPA_T2	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
3/22/2024 9:46	13501	MCMI_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
3/22/2024 9:47	47401	PENS_T1	0	0	0	0	0	0	2.25	2.55	0	0	0	0	0	0
3/22/2024 9:48	13501	MCMI_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
3/22/2024 9:50	41902	REED_T1	0	0	0	0	0	0	2.48	2.5	0	0	0	0	0	0
3/22/2024 9:51	67605	WARW_T1	0	0	0	0	0	0	-1.22	-1.26	0	0	0	0	0	0
3/22/2024 9:53	42201	SHEN_T2	0	0	0	0	0	0	0.03	0.04	1	1	0	600	600	0
3/22/2024 9:54	20403	ASHF_T2	0	0	0	0	0	0	-0.56	-0.61	0	0	0	0	0	0
3/22/2024 9:54	10801	CHHI_T1	0	0	0	0	0	0	-1.29	-0.75	2	2	0	1500	1500	0
3/22/2024 9:56	56802	BENV_T2	0	0	0	0	0	0	-2.7	-2.67	0	0	0	0	0	0
3/22/2024 9:56	67402	WAKE_T2	0	0	0	0	0	0	0.55	0.57	1	1	0	600	600	0
3/22/2024 9:56	20403	ASHF_T2	0	0	0	0	0	0	-0.56	-0.61	0	0	0	0	0	0
3/22/2024 9:57	10805	CHHI_T2	0	0	0	0	0	0	-0.46	-0.42	1	1	0	600	600	0
3/22/2024 9:58	40101	HUNT_T2	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
3/22/2024 9:59	10801	CHHI_T1	0	0	0	0	0	0	-1.29	-0.75	2	1	-1	1500	900	-600
3/22/2024 9:59	28805	LAKE_T1	0	0	0	0	0	0	-0.2	-0.17	0	0	0	0	0	0
3/22/2024 10:00	48301	ORWI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
3/22/2024 10:00	13501	MCMI_T1	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
3/22/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	0.19	0.25	0	0	0	0	0	0
3/22/2024 10:00	45602	WOOL_T1	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
3/22/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
3/22/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
3/22/2024 10:00	14403	SSLA_T1	0	0	0	0	0	0	1.06	0.89	0	0	0	0	0	0
3/22/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	-0.18	-0.14	0	0	0	0	0	0
3/22/2024 10:00	10801	CHHI_T1	0	0	0	0	0	0	-2.57	-1.5	4	2	-2	3000	1800	-1200
3/22/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-0.69	-0.67	1	1	0	900	900	0
3/22/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/22/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	-0.31	-0.31	2	2	0	1200	1200	0
3/22/2024 10:00	12505	MITR_T2	0	0	0	0	0	0	1.06	1	0	0	0	0	0	0
3/22/2024 10:00	24105	EHAZ_T1	0	0	0	0	0	0	-1.97	-1.94	1	1	0	1200	1200	0
3/22/2024 10:00	67605	WARW_T1	0	0	0	0	0	0	-1.26	-1.27	0	0	0	0	0	0
3/22/2024 10:00	47401	PENS_T1	0	0	0	0	0	0	2.55	2.26	0	0	0	0	0	0
3/22/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.55	0.57	1	1	0	600	600	0
3/22/2024 10:00	48302	ORWI_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
3/22/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
3/22/2024 10:01	48302	ORWI_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
3/22/2024 10:01	28805	LAKE_T1	0	0	0	0	0	0	-0.2	-0.17	0	0	0	0	0	0
3/22/2024 10:02	55002	NEWP_T1	0	0	0	0	0	0	-0.17	-0.12	0	0	0	0	0	0
3/22/2024 10:03	55002	NEWP_T1	0	0	0	0	0	0	-0.17	-0.12	0	0	0	0	0	0
3/22/2024 10:04	48301	ORWI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 10:04	55002	NEWP_T1	0	0	0	0	0	0	-0.17	-0.12	0	0	0	0	0	0
3/22/2024 10:05	46702	RENO_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
3/22/2024 10:05	55002	NEWP_T1	0	0	0	0	0	0	-0.17	-0.12	0	0	0	0	0	0
3/22/2024 10:06	67203	TEHI_T1	0	0	0	0	0	0	2.65	2.67	2	2	0	1200	1200	0
3/22/2024 10:06	42201	SHEN_T2	0	0	0	0	0	0	0.03	0.04	1	1	0	600	600	0
3/22/2024 10:06	15702	TANN_T2	0	0	0	0	0	0	0.12	0.02	0	0	0	0	0	0
3/22/2024 10:07	67204	TEHI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/22/2024 10:07	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
3/22/2024 10:07	53802	MBRG_T2	0	0	0	0	0	0	0.67	0.77	0	0	0	0	0	0
3/22/2024 10:08	51401	LYKE_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
3/22/2024 10:08	15702	TANN_T2	0	0	0	0	0	0	0.02	0.08	0	0	0	0	0	0
3/22/2024 10:08	14403	SSLA_T1	0	0	0	0	0	0	0.89	0.91	0	0	0	0	0	0
3/22/2024 10:08	42201	SHEN_T2	0	0	0	0	0	0	0.04	0.04	1	1	0	600	600	0
3/22/2024 10:09	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 10:09	67201	TEHI_T1	0	0	0	0	0	0	0.78	0.87	1	1	0	600	600	0
3/22/2024 10:09	43201	MVIL_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
3/22/2024 10:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/22/2024 10:10	45501	DERR_T2	0	0	0	0	0	0	2.34	2.12	4	4	0	3600	3600	0
3/22/2024 10:10	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 10:10	20403	ASHF_T2	0	0	0	0	0	0	-0.61	-0.58	0	0	0	0	0	0
3/22/2024 10:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/22/2024 10:11	46203	DANV_T2	0	0	0	0	0	0	-1.54	-1.58	0	0	0	0	0	0
3/22/2024 10:11	67402	WAKE_T2	0	0	0	0	0	0	0.57	0.58	1	1	0	600	600	0
3/22/2024 10:11	13503	MCMI_T2	0	0	0	0	0	0	-2.27	-2.21	0	0	0	0	0	0
3/22/2024 10:11	42701	AUGU_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
3/22/2024 10:11	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 10:11	29402	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 10:12	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/22/2024 10:12	45501	DERR_T2	0	0	0	0	0	0	1.17	1.06	2	2	0	1800	1800	0
3/22/2024 10:12	60201	ATGL_T2	0	0	0	0	0	0	-0.09	-0.08	1	1	0	600	600	0
3/22/2024 10:12	10801	CHHI_T1	0	0	0	0	0	0	-0.75	-0.73	1	1	0	900	900	0
3/22/2024 10:12	20403	ASHF_T2	0	0	0	0	0	0	-1.23	-1.15	0	0	0	0	0	0
3/22/2024 10:13	52403	GRPA_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
3/22/2024 10:13	10805	CHHI_T2	0	0	0	0	0	0	-0.42	-0.39	1	1	0	600	600	0
3/22/2024 10:13	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
3/22/2024 10:13	29402	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 10:13	52402	GRPA_T2	0	0	0	0	0	0	-0.84	-0.86	0	0	0	0	0	0
3/22/2024 10:14	25402	LAHA_T2	0	0	0	0	0	0	-0.39	-0.51	0	0	0	0	0	0
3/22/2024 10:14	52403	GRPA_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
3/22/2024 10:14	13503	MCMI_T2	0	0	0	0	0	0	-0.76	-0.74	0	0	0	0	0	0
3/22/2024 10:15	57304	MOAL_T2	0	0	0	0	0	0	-0.39	-0.42	0	0	0	0	0	0
3/22/2024 10:15	28805	LAKE_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
3/22/2024 10:16	52402	GRPA_T2	0	0	0	0	0	0	-0.84	-0.86	0	0	0	0	0	0
3/22/2024 10:18	20403	ASHF_T2	0	0	0	0	0	0	-0.61	-0.58	0	0	0	0	0	0
3/22/2024 10:19	57401	SPAN_T1	0	0	0	0	0	0	-1.13	-0.95	1	1	0	600	600	0
3/22/2024 10:20	65001	NEFF_T2	0	0	0	0	0	0	-0.64	-0.68	1	1	0	1200	1200	0
3/22/2024 10:20	16402	MOPO_T1	0	0	0	0	0	0	0.13	0.23	0	0	0	0	0	0
3/22/2024 10:20	16503	STRO_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
3/22/2024 10:21	57304	MOAL_T2	0	0	0	0	0	0	-0.39	-0.42	0	0	0	0	0	0
3/22/2024 10:22	65902	SAKR_T2	0	0	0	0	0	0	-0.32	-0.34	1	1	0	300	300	0
3/22/2024 10:22	41902	REED_T1	0	0	0	0	0	0	3.78	3.58	0	0	0	0	0	0
3/22/2024 10:22	13901	SEID_T1	0	0	0	0	0	0	-1.09	-1.09	1	1	0	1200	1200	0
3/22/2024 10:23	26001	WDAM_T1	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
3/22/2024 10:23	56802	BENV_T2	0	0	0	0	0	0	-3.78	-3.77	0	0	0	0	0	0
3/22/2024 10:23	10805	CHHI_T2	0	0	0	0	0	0	-0.39	-0.42	1	1	0	600	600	0
3/22/2024 10:23	57401	SPAN_T1	0	0	0	0	0	0	-2.84	-2.71	3	3	0	1800	1800	0
3/22/2024 10:24	57401	SPAN_T1	0	0	0	0	0	0	-0.95	-0.9	1	1	0	600	600	0
3/22/2024 10:24	56802	BENV_T2	0	0	0	0	0	0	-3.78	-3.77	0	0	0	0	0	0
3/22/2024 10:25	54501	ENOL_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
3/22/2024 10:25	46203	DANV_T2	0	0	0	0	0	0	-0.79	-0.82	0	0	0	0	0	0
3/22/2024 10:26	67605	WARW_T1	0	0	0	0	0	0	-1.12	-1.13	0	0	0	0	0	0
3/22/2024 10:26	52404	GRPA_T2	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
3/22/2024 10:26	56802	BENV_T2	0	0	0	0	0	0	-2.52	-2.51	0	0	0	0	0	0
3/22/2024 10:27	56802	BENV_T2	0	0	0	0	0	0	-2.52	-2.51	0	0	0	0	0	0
3/22/2024 10:27	67605	WARW_T1	0	0	0	0	0	0	-1.12	-1.13	0	0	0	0	0	0
3/22/2024 10:28	56802	BENV_T2	0	0	0	0	0	0	-1.26	-1.26	0	0	0	0	0	0
3/22/2024 10:28	67204	TEHI_T2	0	0	0	0	0	0	-0.01	-0.07	0	0	0	0	0	0
3/22/2024 10:28	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 10:28	46206	DANV_T2	0	0	0	0	0	0	6.81	6.81	3	3	0	3600	3600	0
3/22/2024 10:29	52403	GRPA_T2	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
3/22/2024 10:29	67605	WARW_T1	0	0	0	0	0	0	-1.12	-1.13	0	0	0	0	0	0
3/22/2024 10:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/22/2024 10:31	42903	MIDD_T2	0	0	0	0	0	0	0.88	1.16	0	0	0	0	0	0
3/22/2024 10:31	52404	GRPA_T2	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
3/22/2024 10:31	13501	MCMI_T1	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
3/22/2024 10:32	64203	KINZ_T1	0	0	0	0	0	0	1.47	1.28	1	1	0	600	600	0
3/22/2024 10:33	64802	MONE_T2	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
3/22/2024 10:33	59003	MIFF_T1	0	0	0	0	0	0	0.98	0.96	0	0	0	0	0	0
3/22/2024 10:34	47401	PENS_T1	0	0	0	0	0	0	0.94	1	0	0	0	0	0	0
3/22/2024 10:35	40602	PIGR_T1	0	0	0	0	0	0	-0.52	-0.5	1	1	0	600	600	0
3/22/2024 10:35	65001	NEFF_T2	0	0	0	0	0	0	-0.68	-0.76	1	1	0	1200	1200	0
3/22/2024 10:35	66504	SMAN_T2	0	0	0	0	0	0	-0.82	-0.97	0	0	0	0	0	0
3/22/2024 10:36	40602	PIGR_T1	0	0	0	0	0	0	-1.04	-1.01	2	2	0	1200	1200	0
3/22/2024 10:36	45601	WOOL_T1	0	0	0	0	0	0	-0.24	-0.19	1	1	0	1200	1200	0
3/22/2024 10:36	47401	PENS_T1	0	0	0	0	0	0	0.94	1	0	0	0	0	0	0
3/22/2024 10:37	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
3/22/2024 10:37	60201	ATGL_T2	0	0	0	0	0	0	-0.08	0.02	1	1	0	600	600	0
3/22/2024 10:38	60101	COCA_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
3/22/2024 10:38	47401	PENS_T1	0	0	0	0	0	0	0.94	1	0	0	0	0	0	0
3/22/2024 10:39	57403	SPAN_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
3/22/2024 10:39	14801	TREI_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
3/22/2024 10:40	45501	DERR_T2	0	0	0	0	0	0	1.08	0.92	2	2	0	1800	1800	0
3/22/2024 10:42	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
3/22/2024 10:42	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-0.98	1	1	0	600	600	0
3/22/2024 10:42	60101	COCA_T1	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
3/22/2024 10:42	28704	HAML_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
3/22/2024 10:44	45501	DERR_T2	0	0	0	0	0	0	1.08	0.92	2	2	0	1800	1800	0
3/22/2024 10:44	40101	HUNT_T2	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
3/22/2024 10:45	40101	HUNT_T2	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
3/22/2024 10:46	46801	HEPB_T2	0	0	0	0	0	0	0.71	0.67	0	0	0	0	0	0
3/22/2024 10:46	42903	MIDD_T2	0	0	0	0	0	0	0.58	0.53	0	0	0	0	0	0
3/22/2024 10:46	40101	HUNT_T2	0	0	0	0	0	0	-1.03	-0.95	0	0	0	0	0	0
3/22/2024 10:48	40101	HUNT_T2	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
3/22/2024 10:49	40603	PIGR_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
3/22/2024 10:49	40301	TAMA_T3	0	0	0	0	0	0	0.46	0.35	3	3	0	2700	2700	0
3/22/2024 10:50	42903	MIDD_T2	0	0	0	0	0	0	0.58	0.53	0	0	0	0	0	0
3/22/2024 10:50	58401	MORO_T1	0	0	0	0	0	0	-0.85	-0.84	1	1	0	600	600	0
3/22/2024 10:51	15704	TANN_T1	0	0	0	0	0	0	-0.95	-0.99	0	0	0	0	0	0
3/22/2024 10:51	48302	ORWI_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
3/22/2024 10:52	24902	WHHA_T1	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
3/22/2024 10:53	60201	ATGL_T2	0	0	0	0	0	0	0.02	0.5	1	0	-1	600	0	-600
3/22/2024 10:54	51107	CARL_T1	0	0	0	0	0	0	0.18	-0.22	0	0	0	0	0	0
3/22/2024 10:54	45402	WBLO_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
3/22/2024 10:55	45402	WBLO_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
3/22/2024 10:56	50103	HARR_T3	0	0	0	0	0	0	-0.93	-1.02	1	1	0	1200	1200	0
3/22/2024 10:56	53903	HALI_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
3/22/2024 10:57	53903	HALI_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
3/22/2024 10:57	67603	WARW_T1	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
3/22/2024 10:58	67603	WARW_T1	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
3/22/2024 10:58	54505	ENOL_T2	0	0	0	0	0	0	-2.43	-2.43	2	2	0	1200	1200	0
3/22/2024 10:59	53903	HALI_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
3/22/2024 10:59	54505	ENOL_T2	0	0	0	0	0	0	-1.21	-1.21	1	1	0	600	600	0
3/22/2024 11:00	64902	MILL_T2	0	0	0	0	0	0	-1.48	-1.53	2	2	0	1800	1800	0
3/22/2024 11:01	54505	ENOL_T2	0	0	0	0	0	0	-1.21	-1.21	1	1	0	600	600	0
3/22/2024 11:01	50103	HARR_T3	0	0	0	0	0	0	-0.93	-1.02	1	1	0	1200	1200	0
3/22/2024 11:02	53903	HALI_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
3/22/2024 11:02	43202	MVIL_T2	0	0	0	0	0	0	-0.57	-0.55	0	0	0	0	0	0
3/22/2024 11:02	10801	CHHI_T1	0	0	0	0	0	0	-0.55	-0.62	1	1	0	900	900	0
3/22/2024 11:03	64801	MONE_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
3/22/2024 11:03	44601	SALE_T2	0	0	0	0	0	0	0.15	0.08	0	0	0	0	0	0
3/22/2024 11:04	43202	MVIL_T2	0	0	0	0	0	0	-0.57	-0.55	0	0	0	0	0	0
3/22/2024 11:04	44601	SALE_T2	0	0	0	0	0	0	0.15	0.08	0	0	0	0	0	0
3/22/2024 11:04	13901	SEID_T1	0	0	0	0	0	0	-1.09	-1.11	1	1	0	1200	1200	0
3/22/2024 11:05	43202	MVIL_T2	0	0	0	0	0	0	-0.57	-0.55	0	0	0	0	0	0
3/22/2024 11:05	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.77	1	1	0	900	900	0
3/22/2024 11:05	48302	ORWI_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
3/22/2024 11:05	26001	WDAM_T1	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
3/22/2024 11:05	64802	MONE_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
3/22/2024 11:06	57403	SPAN_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
3/22/2024 11:07	45602	WOOL_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
3/22/2024 11:07	52501	PROG_T1	0	0	0	0	0	0	0.41	0.38	1	1	0	300	300	0
3/22/2024 11:07	44302	BEAV_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
3/22/2024 11:08	56802	BENV_T2	0	0	0	0	0	0	-2.49	-2.53	0	0	0	0	0	0
3/22/2024 11:08	46004	BERW_T2	0	0	0	0	0	0	-0.02	0.02	0	0	0	0	0	0
3/22/2024 11:08	45602	WOOL_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
3/22/2024 11:08	56801	BENV_T1	0	0	0	0	0	0	-0.71	-0.76	1	1	0	600	600	0
3/22/2024 11:09	57403	SPAN_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
3/22/2024 11:09	45602	WOOL_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
3/22/2024 11:10	56802	BENV_T2	0	0	0	0	0	0	-1.25	-1.27	0	0	0	0	0	0
3/22/2024 11:10	60803	BUCK_T1	0	0	0	0	0	0	-1.16	-1.18	1	1	0	600	600	0
3/22/2024 11:11	56801	BENV_T1	0	0	0	0	0	0	-0.71	-0.76	1	1	0	600	600	0
3/22/2024 11:12	54503	ENOL_T2	0	0	0	0	0	0	-1.81	-1.92	1	1	0	600	600	0
3/22/2024 11:13	60803	BUCK_T1	0	0	0	0	0	0	-1.16	-1.18	1	1	0	600	600	0
3/22/2024 11:13	54502	ENOL_T2	0	0	0	0	0	0	-1.16	-1.16	1	1	0	600	600	0
3/22/2024 11:13	60101	COCA_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
3/22/2024 11:13	10801	CHHI_T1	0	0	0	0	0	0	-0.62	-0.56	1	1	0	900	900	0
3/22/2024 11:13	40902	JESH_T1	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
3/22/2024 11:13	54503	ENOL_T2	0	0	0	0	0	0	-1.81	-1.92	1	1	0	600	600	0
3/22/2024 11:14	45702	LIND_T2	0	0	0	0	0	0	-0.34	-0.31	0	0	0	0	0	0
3/22/2024 11:14	45602	WOOL_T1	0	0	0	0	0	0	1.17	1.16	0	0	0	0	0	0
3/22/2024 11:14	40101	HUNT_T2	0	0	0	0	0	0	-0.33	-0.38	0	0	0	0	0	0
3/22/2024 11:14	54503	ENOL_T2	0	0	0	0	0	0	-1.81	-1.92	1	1	0	600	600	0
3/22/2024 11:14	64301	LINC_T1	0	0	0	0	0	0	0.04	0.14	1	1	0	600	600	0
3/22/2024 11:14	54505	ENOL_T2	0	0	0	0	0	0	-1.21	-1.23	1	1	0	600	600	0
3/22/2024 11:15	40101	HUNT_T2	0	0	0	0	0	0	-0.33	-0.38	0	0	0	0	0	0
3/22/2024 11:15	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 11:16	55105	WERT_T1	0	0	0	0	0	0	-0.61	-0.64	1	1	0	900	900	0
3/22/2024 11:16	40101	HUNT_T2	0	0	0	0	0	0	-0.66	-0.76	0	0	0	0	0	0
3/22/2024 11:17	40101	HUNT_T2	0	0	0	0	0	0	-0.33	-0.38	0	0	0	0	0	0
3/22/2024 11:17	55002	NEWP_T1	0	0	0	0	0	0	-0.3	-0.34	0	0	0	0	0	0
3/22/2024 11:17	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 11:18	42902	MIDD_T2	0	0	0	0	0	0	-0.73	-0.52	0	0	0	0	0	0
3/22/2024 11:18	10801	CHHI_T1	0	0	0	0	0	0	-0.62	-0.56	1	1	0	900	900	0
3/22/2024 11:19	46302	ROHR_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
3/22/2024 11:19	41902	REED_T1	0	0	0	0	0	0	1.15	1.16	0	0	0	0	0	0
3/22/2024 11:19	42902	MIDD_T2	0	0	0	0	0	0	-1.09	-0.78	0	0	0	0	0	0
3/22/2024 11:20	40101	HUNT_T2	0	0	0	0	0	0	-0.33	-0.38	0	0	0	0	0	0
3/22/2024 11:20	42902	MIDD_T2	0	0	0	0	0	0	-0.36	-0.26	0	0	0	0	0	0
3/22/2024 11:20	41902	REED_T1	0	0	0	0	0	0	2.31	2.32	0	0	0	0	0	0
3/22/2024 11:21	40101	HUNT_T2	0	0	0	0	0	0	-0.33	-0.38	0	0	0	0	0	0
3/22/2024 11:21	45402	WBLO_T2	0	0	0	0	0	0	-0.6	-0.64	0	0	0	0	0	0
3/22/2024 11:22	57403	SPAN_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
3/22/2024 11:22	46302	ROHR_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
3/22/2024 11:23	45902	AUBU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
3/22/2024 11:23	10801	CHHI_T1	0	0	0	0	0	0	-0.56	-0.56	1	1	0	900	900	0
3/22/2024 11:24	45602	WOOL_T1	0	0	0	0	0	0	0.58	0.52	0	0	0	0	0	0
3/22/2024 11:24	46001	BERW_T1	0	0	0	0	0	0	0.87	0.85	0	0	0	0	0	0
3/22/2024 11:24	45902	AUBU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
3/22/2024 11:24	42601	TUSC_T1	0	0	0	0	0	0	-1.14	-1.16	2	2	0	1800	1800	0
3/22/2024 11:25	60201	ATGL_T2	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
3/22/2024 11:25	46001	BERW_T1	0	0	0	0	0	0	0.87	0.85	0	0	0	0	0	0
3/22/2024 11:25	45602	WOOL_T1	0	0	0	0	0	0	0.58	0.52	0	0	0	0	0	0
3/22/2024 11:25	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/22/2024 11:25	60701	BREC_T1	0	0	0	0	0	0	0.03	0.28	1	1	0	600	600	0
3/22/2024 11:25	29402	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 11:26	60701	BREC_T1	0	0	0	0	0	0	0.06	0.55	2	2	0	1200	1200	0
3/22/2024 11:26	46001	BERW_T1	0	0	0	0	0	0	0.87	0.85	0	0	0	0	0	0
3/22/2024 11:27	54505	ENOL_T2	0	0	0	0	0	0	-1.23	-1.23	1	1	0	600	600	0
3/22/2024 11:27	46001	BERW_T1	0	0	0	0	0	0	0.87	0.85	0	0	0	0	0	0
3/22/2024 11:27	60701	BREC_T1	0	0	0	0	0	0	0.03	0.28	1	1	0	600	600	0
3/22/2024 11:28	54502	ENOL_T2	0	0	0	0	0	0	-1.16	-1.15	1	1	0	600	600	0
3/22/2024 11:28	26401	WOR_T1	0	0	0	0	0	0	1.01	1.02	0	0	0	0	0	0
3/22/2024 11:29	54505	ENOL_T2	0	0	0	0	0	0	-3.69	-3.69	3	3	0	1800	1800	0
3/22/2024 11:29	45602	WOOL_T1	0	0	0	0	0	0	0.58	0.52	0	0	0	0	0	0
3/22/2024 11:29	10801	CHHI_T1	0	0	0	0	0	0	-0.56	-0.56	1	1	0	900	900	0
3/22/2024 11:30	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/22/2024 11:30	45602	WOOL_T1	0	0	0	0	0	0	0.58	0.52	0	0	0	0	0	0
3/22/2024 11:30	54502	ENOL_T2	0	0	0	0	0	0	-1.16	-1.15	1	1	0	600	600	0
3/22/2024 11:31	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	900	900	0
3/22/2024 11:32	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	900	900	0
3/22/2024 11:33	47401	PENS_T1	0	0	0	0	0	0	1.07	1.06	0	0	0	0	0	0
3/22/2024 11:33	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	900	900	0
3/22/2024 11:34	65001	NEFF_T2	0	0	0	0	0	0	-0.63	-0.81	1	1	0	1200	1200	0
3/22/2024 11:35	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 11:35	67203	TEHI_T1	0	0	0	0	0	0	2.55	2.17	2	2	0	1200	1200	0
3/22/2024 11:35	47401	PENS_T1	0	0	0	0	0	0	1.07	1.06	0	0	0	0	0	0
3/22/2024 11:36	67002	STHI_T2	0	0	0	0	0	0	3.29	3.2	0	0	0	0	0	0
3/22/2024 11:36	40301	TAMA_T3	0	0	0	0	0	0	0.16	0.24	3	3	0	2700	2700	0
3/22/2024 11:36	57103	SPHI_T2	0	0	0	0	0	0	-0.89	-0.91	1	1	0	600	600	0
3/22/2024 11:36	47401	PENS_T1	0	0	0	0	0	0	1.07	1.06	0	0	0	0	0	0
3/22/2024 11:36	13901	SEID_T1	0	0	0	0	0	0	-1.1	-1.12	1	1	0	1200	1200	0
3/22/2024 11:37	47401	PENS_T1	0	0	0	0	0	0	1.07	1.06	0	0	0	0	0	0
3/22/2024 11:37	67002	STHI_T2	0	0	0	0	0	0	0.66	0.64	0	0	0	0	0	0
3/22/2024 11:38	67002	STHI_T2	0	0	0	0	0	0	0.66	0.64	0	0	0	0	0	0
3/22/2024 11:38	67201	TEHI_T1	0	0	0	0	0	0	0.35	0.26	1	1	0	600	600	0
3/22/2024 11:38	14403	SSLA_T1	0	0	0	0	0	0	0.94	0.89	0	0	0	0	0	0
3/22/2024 11:38	16503	STRO_T2	0	0	0	0	0	0	-0.22	0.21	0	0	0	0	0	0
3/22/2024 11:38	44301	BEAV_T2	0	0	0	0	0	0	0.18	0.27	1	1	0	600	600	0
3/22/2024 11:38	47401	PENS_T1	0	0	0	0	0	0	4.28	4.25	0	0	0	0	0	0
3/22/2024 11:39	60101	COCA_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
3/22/2024 11:39	45601	WOOL_T1	0	0	0	0	0	0	1.05	1.02	1	0	-1	1200	0	-1200
3/22/2024 11:39	20403	ASHF_T2	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
3/22/2024 11:39	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 11:39	14403	SSLA_T1	0	0	0	0	0	0	0.94	0.89	0	0	0	0	0	0
3/22/2024 11:40	24902	WHHA_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/22/2024 11:40	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 11:40	60101	COCA_T1	0	0	0	0	0	0	0.76	0.78	0	0	0	0	0	0
3/22/2024 11:41	20403	ASHF_T2	0	0	0	0	0	0	-1.48	-1.5	0	0	0	0	0	0
3/22/2024 11:41	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 11:41	60101	COCA_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
3/22/2024 11:42	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 11:42	17805	GILB_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
3/22/2024 11:42	17802	GILB_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
3/22/2024 11:43	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.34	0	0	0	0	0	0
3/22/2024 11:43	53903	HALI_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
3/22/2024 11:44	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.34	0	0	0	0	0	0
3/22/2024 11:44	53903	HALI_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
3/22/2024 11:45	64301	LINC_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/22/2024 11:45	17804	GILB_T2	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
3/22/2024 11:46	17805	GILB_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
3/22/2024 11:46	40101	HUNT_T2	0	0	0	0	0	0	-0.76	-0.68	0	0	0	0	0	0
3/22/2024 11:47	53903	HALI_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
3/22/2024 11:47	40101	HUNT_T2	0	0	0	0	0	0	-0.76	-0.68	0	0	0	0	0	0
3/22/2024 11:48	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.34	0	0	0	0	0	0
3/22/2024 11:48	47401	PENS_T1	0	0	0	0	0	0	4.25	4.24	0	0	0	0	0	0
3/22/2024 11:49	47401	PENS_T1	0	0	0	0	0	0	2.13	2.12	0	0	0	0	0	0
3/22/2024 11:49	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.34	0	0	0	0	0	0
3/22/2024 11:49	14403	SSLA_T1	0	0	0	0	0	0	0.94	0.89	0	0	0	0	0	0
3/22/2024 11:51	59101	WALK_T2	0	0	0	0	0	0	1.47	1.34	0	0	0	0	0	0
3/22/2024 11:51	47401	PENS_T1	0	0	0	0	0	0	2.13	2.12	0	0	0	0	0	0
3/22/2024 11:52	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.34	0	0	0	0	0	0
3/22/2024 11:52	45402	WBLO_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
3/22/2024 11:52	40403	PIGR_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
3/22/2024 11:53	53903	HALI_T2	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
3/22/2024 11:53	45402	WBLO_T2	0	0	0	0	0	0	-1.35	-1.36	0	0	0	0	0	0
3/22/2024 11:53	26001	WDAM_T1	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
3/22/2024 11:54	14403	SSLA_T1	0	0	0	0	0	0	0.89	0.74	0	0	0	0	0	0
3/22/2024 11:54	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 11:55	45902	AUBU_T1	0	0	0	0	0	0	0	0	3	3	0	1800	1800	0
3/22/2024 11:55	45601	WOOL_T1	0	0	0	0	0	0	1.02	0.87	0	0	0	0	0	0
3/22/2024 11:55	24902	WHHA_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
3/22/2024 11:55	20403	ASHF_T2	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
3/22/2024 11:55	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 11:55	67502	WEWI_T2	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
3/22/2024 11:56	48901	FOSP_T2	0	0	0	0	0	0	-0.09	-0.1	1	1	0	600	600	0
3/22/2024 11:56	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 11:56	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 11:57	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 11:57	48901	FOSP_T2	0	0	0	0	0	0	-0.09	-0.1	1	1	0	600	600	0
3/22/2024 11:57	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 11:58	20403	ASHF_T2	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
3/22/2024 11:58	47001	HUGH_T2	0	0	0	0	0	0	-0.73	-0.69	0	0	0	0	0	0
3/22/2024 11:59	65001	NEFF_T2	0	0	0	0	0	0	-0.71	-0.72	1	1	0	1200	1200	0
3/22/2024 12:02	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 12:03	20403	ASHF_T2	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
3/22/2024 12:04	47401	PENS_T1	0	0	0	0	0	0	5.3	5.29	0	0	0	0	0	0
3/22/2024 12:04	13302	ORVI_T2	0	0	0	0	0	0	1.28	1.29	0	0	0	0	0	0
3/22/2024 12:05	47401	PENS_T1	0	0	0	0	0	0	1.06	1.06	0	0	0	0	0	0
3/22/2024 12:05	67502	WEWI_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
3/22/2024 12:05	51002	NHAR_T1	0	0	0	0	0	0	-1.28	-1.25	0	0	0	0	0	0
3/22/2024 12:06	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 12:06	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 12:07	47401	PENS_T1	0	0	0	0	0	0	2.12	2.12	0	0	0	0	0	0
3/22/2024 12:07	59101	WALK_T2	0	0	0	0	0	0	1.34	1.41	0	0	0	0	0	0
3/22/2024 12:08	14801	TREI_T2	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
3/22/2024 12:09	26001	WDAM_T1	0	0	0	0	0	0	-0.7	-0.74	0	0	0	0	0	0
3/22/2024 12:10	67502	WEWI_T2	0	0	0	0	0	0	-0.33	-0.4	0	0	0	0	0	0
3/22/2024 12:11	45601	WOOL_T1	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
3/22/2024 12:13	23901	EFMO_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
3/22/2024 12:17	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
3/22/2024 12:18	59402	RFLD_T2	0	0	0	0	0	0	-0.62	-0.65	1	1	0	450	450	0
3/22/2024 12:18	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
3/22/2024 12:19	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
3/22/2024 12:19	64902	MILL_T2	0	0	0	0	0	0	-1.55	-1.49	2	2	0	1800	1800	0
3/22/2024 12:20	65004	NEFF_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
3/22/2024 12:20	40101	HUNT_T2	0	0	0	0	0	0	-0.76	-0.79	0	0	0	0	0	0
3/22/2024 12:20	12505	MITR_T2	0	0	0	0	0	0	0.8	0.97	0	0	0	0	0	0
3/22/2024 12:21	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 12:21	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
3/22/2024 12:21	64902	MILL_T2	0	0	0	0	0	0	-0.78	-0.75	1	1	0	900	900	0
3/22/2024 12:21	65001	NEFF_T2	0	0	0	0	0	0	-0.72	-0.79	1	1	0	1200	1200	0
3/22/2024 12:22	24902	WHHA_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
3/22/2024 12:23	13901	SEID_T1	0	0	0	0	0	0	0.19	0.18	1	0	-1	1200	0	-1200
3/22/2024 12:31	20601	GRWO_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
3/22/2024 12:35	17805	GILB_T2	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
3/22/2024 12:35	67002	STHI_T2	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
3/22/2024 12:38	67002	STHI_T2	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
3/22/2024 12:39	60101	COCA_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
3/22/2024 12:41	65001	NEFF_T2	0	0	0	0	0	0	-0.81	-0.71	1	1	0	1200	1200	0
3/22/2024 12:42	60101	COCA_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
3/22/2024 12:43	52004	LING_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
3/22/2024 12:43	60101	COCA_T1	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
3/22/2024 12:44	53903	HALI_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
3/22/2024 12:46	53903	HALI_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
3/22/2024 12:46	59302	MCAL_T1	0	0	0	0	0	0	-0.26	-0.32	1	1	0	600	600	0
3/22/2024 12:47	53903	HALI_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
3/22/2024 12:48	64301	LINC_T1	0	0	0	0	0	0	0.56	0.51	0	0	0	0	0	0
3/22/2024 12:51	13302	ORVI_T2	0	0	0	0	0	0	1.32	1.43	0	0	0	0	0	0
3/22/2024 12:52	64303	LINC_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
3/22/2024 12:53	67502	WEWI_T2	0	0	0	0	0	0	-0.82	-0.89	0	0	0	0	0	0
3/22/2024 13:02	59302	MCAL_T1	0	0	0	0	0	0	-0.32	-0.29	1	1	0	600	600	0
3/22/2024 13:03	65001	NEFF_T2	0	0	0	0	0	0	-0.71	-0.94	1	1	0	1200	1200	0
3/22/2024 13:04	42001	MNVL_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
3/22/2024 13:06	49803	UNIV_T1	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
3/22/2024 13:07	14403	SSLA_T1	0	0	0	0	0	0	0.87	0.9	0	0	0	0	0	0
3/22/2024 13:07	49803	UNIV_T1	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
3/22/2024 13:09	56801	BENV_T1	0	0	0	0	0	0	-0.76	-0.78	1	1	0	600	600	0
3/22/2024 13:13	14403	SSLA_T1	0	0	0	0	0	0	0.9	0.84	0	0	0	0	0	0
3/22/2024 13:17	65001	NEFF_T2	0	0	0	0	0	0	-0.94	-0.8	1	1	0	1200	1200	0
3/22/2024 13:33	59302	MCAL_T1	0	0	0	0	0	0	-0.38	-0.36	1	1	0	600	600	0
3/22/2024 13:40	20403	ASHF_T2	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
3/22/2024 13:42	20403	ASHF_T2	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
3/22/2024 13:42	44301	BEAV_T2	0	0	0	0	0	0	0.37	0.37	1	1	0	600	600	0
3/22/2024 13:43	20403	ASHF_T2	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
3/22/2024 13:50	42501	ALTA_T2	0	0	0	0	0	0	-1.35	-1.34	1	1	0	600	600	0
3/22/2024 13:51	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 13:52	40603	PIGR_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
3/22/2024 13:54	12505	MITR_T2	0	0	0	0	0	0	0.8	0.74	0	0	0	0	0	0
3/22/2024 13:55	14203	EALL_T1	0	0	0	0	0	0	-0.26	-0.32	1	1	0	1200	1200	0
3/22/2024 13:58	23901	EFMO_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
3/22/2024 14:05	15702	TANN_T2	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
3/22/2024 14:05	42001	MNVL_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
3/22/2024 14:06	26001	WDAM_T1	0	0	0	0	0	0	-0.76	-0.75	0	0	0	0	0	0
3/22/2024 14:06	42601	TUSC_T1	0	0	0	0	0	0	-0.09	-0.21	2	2	0	1800	1800	0
3/22/2024 14:06	65001	NEFF_T2	0	0	0	0	0	0	-1.02	-1.06	1	1	0	1200	1200	0
3/22/2024 14:06	42802	SELI_T1	0	0	0	0	0	0	-0.83	-0.85	1	1	0	900	900	0
3/22/2024 14:07	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 14:07	42701	AUGU_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
3/22/2024 14:09	14801	TREI_T2	0	0	0	0	0	0	0.4	0.36	0	0	0	0	0	0
3/22/2024 14:09	15702	TANN_T2	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
3/22/2024 14:09	10805	CHHI_T2	0	0	0	0	0	0	-0.62	-0.63	1	1	0	600	600	0
3/22/2024 14:09	42802	SELI_T1	0	0	0	0	0	0	-0.85	-0.84	1	1	0	900	900	0
3/22/2024 14:10	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/22/2024 14:10	10801	CHHI_T1	0	0	0	0	0	0	-1.01	-1.03	1	1	0	900	900	0
3/22/2024 14:11	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/22/2024 14:11	20403	ASHF_T2	0	0	0	0	0	0	-0.89	-0.85	0	0	0	0	0	0
3/22/2024 14:13	10801	CHHI_T1	0	0	0	0	0	0	-1.01	-1.03	1	1	0	900	900	0
3/22/2024 14:13	17805	GILB_T2	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
3/22/2024 14:13	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
3/22/2024 14:14	53903	HALI_T2	0	0	0	0	0	0	-0.15	-0.1	0	0	0	0	0	0
3/22/2024 14:14	17805	GILB_T2	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
3/22/2024 14:14	17804	GILB_T2	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
3/22/2024 14:15	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/22/2024 14:15	63602	LETO_T1	0	0	0	0	0	0	-0.37	-0.49	0	0	0	0	0	0
3/22/2024 14:15	10801	CHHI_T1	0	0	0	0	0	0	-1.01	-1.03	1	1	0	900	900	0
3/22/2024 14:15	17805	GILB_T2	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
3/22/2024 14:15	53903	HALI_T2	0	0	0	0	0	0	-0.15	-0.1	0	0	0	0	0	0
3/22/2024 14:15	17802	GILB_T1	0	0	0	0	0	0	0.38	0.32	0	0	0	0	0	0
3/22/2024 14:15	20403	ASHF_T2	0	0	0	0	0	0	-0.89	-0.85	0	0	0	0	0	0
3/22/2024 14:16	43202	MVIL_T2	0	0	0	0	0	0	-0.66	-0.6	0	0	0	0	0	0
3/22/2024 14:16	40101	HUNT_T2	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
3/22/2024 14:16	53903	HALI_T2	0	0	0	0	0	0	-0.15	-0.1	0	0	0	0	0	0
3/22/2024 14:17	58402	MORO_T1	0	0	0	0	0	0	-0.15	-0.14	2	2	0	1500	1500	0
3/22/2024 14:18	41902	REED_T1	0	0	0	0	0	0	2.24	2.17	0	0	0	0	0	0
3/22/2024 14:18	43202	MVIL_T2	0	0	0	0	0	0	-1.31	-1.19	0	0	0	0	0	0
3/22/2024 14:18	47401	PENS_T1	0	0	0	0	0	0	0.84	0.83	0	0	0	0	0	0
3/22/2024 14:18	58402	MORO_T1	0	0	0	0	0	0	-0.15	-0.14	2	2	0	1500	1500	0
3/22/2024 14:19	40101	HUNT_T2	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
3/22/2024 14:20	43201	MVIL_T2	0	0	0	0	0	0	-0.3	-0.33	0	0	0	0	0	0
3/22/2024 14:20	14403	SSLA_T1	0	0	0	0	0	0	0.88	0.94	0	0	0	0	0	0
3/22/2024 14:20	42802	SELI_T1	0	0	0	0	0	0	-0.85	-0.84	1	1	0	900	900	0
3/22/2024 14:20	47401	PENS_T1	0	0	0	0	0	0	0.84	0.83	0	0	0	0	0	0
3/22/2024 14:20	43104	SMIL_T2	0	0	0	0	0	0	-0.81	-0.83	1	1	0	300	300	0
3/22/2024 14:20	58401	MORO_T1	0	0	0	0	0	0	-1.01	-1.04	1	1	0	600	600	0
3/22/2024 14:21	47401	PENS_T1	0	0	0	0	0	0	0.84	0.83	0	0	0	0	0	0
3/22/2024 14:22	45902	AUBU_T1	0	0	0	0	0	0	0	0	3	3	0	1800	1800	0
3/22/2024 14:22	47401	PENS_T1	0	0	0	0	0	0	0.84	0.83	0	0	0	0	0	0
3/22/2024 14:22	14403	SSLA_T1	0	0	0	0	0	0	0.88	0.94	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/22/2024 14:22	42802	SELI_T1	0	0	0	0	0	0	-0.85	-0.84	1	1	0	900	900	0
3/22/2024 14:23	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 14:23	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 14:23	41902	REED_T1	0	0	0	0	0	0	1.08	1.14	0	0	0	0	0	0
3/22/2024 14:23	27502	WEIS_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
3/22/2024 14:23	59101	WALK_T2	0	0	0	0	0	0	0.9	0.99	0	0	0	0	0	0
3/22/2024 14:24	10801	CHHI_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	900	900	0
3/22/2024 14:24	59101	WALK_T2	0	0	0	0	0	0	0.9	0.99	0	0	0	0	0	0
3/22/2024 14:24	40101	HUNT_T2	0	0	0	0	0	0	-0.4	-0.32	0	0	0	0	0	0
3/22/2024 14:24	45402	WBLO_T2	0	0	0	0	0	0	-0.77	-0.79	0	0	0	0	0	0
3/22/2024 14:25	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 14:25	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/22/2024 14:25	10805	CHHI_T2	0	0	0	0	0	0	-1.89	-2.1	3	3	0	1800	1800	0
3/22/2024 14:25	46001	BERW_T1	0	0	0	0	0	0	2.37	2.47	0	0	0	0	0	0
3/22/2024 14:25	45402	WBLO_T2	0	0	0	0	0	0	-0.77	-0.79	0	0	0	0	0	0
3/22/2024 14:26	10801	CHHI_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	900	900	0
3/22/2024 14:27	60101	COCA_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
3/22/2024 14:27	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/22/2024 14:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 14:28	46004	BERW_T2	0	0	0	0	0	0	-0.32	-0.46	0	0	0	0	0	0
3/22/2024 14:28	60101	COCA_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
3/22/2024 14:29	45802	HEGI_T2	0	0	0	0	0	0	0.53	0.6	0	0	0	0	0	0
3/22/2024 14:29	53903	HALI_T2	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
3/22/2024 14:29	46001	BERW_T1	0	0	0	0	0	0	0.79	0.82	0	0	0	0	0	0
3/22/2024 14:29	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 14:29	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 14:31	63602	LETO_T1	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
3/22/2024 14:31	10801	CHHI_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	900	900	0
3/22/2024 14:31	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/22/2024 14:31	40101	HUNT_T2	0	0	0	0	0	0	-0.4	-0.32	0	0	0	0	0	0
3/22/2024 14:31	59302	MCAL_T1	0	0	0	0	0	0	-0.5	-0.51	1	1	0	600	600	0
3/22/2024 14:31	45802	HEGI_T2	0	0	0	0	0	0	0.53	0.6	0	0	0	0	0	0
3/22/2024 14:31	53903	HALI_T2	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
3/22/2024 14:31	47001	HUGH_T2	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
3/22/2024 14:32	53903	HALI_T2	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
3/22/2024 14:32	59301	MCAL_T1	0	0	0	0	0	0	-0.76	-0.79	0	0	0	0	0	0
3/22/2024 14:32	40101	HUNT_T2	0	0	0	0	0	0	-0.4	-0.32	0	0	0	0	0	0
3/22/2024 14:32	43202	MVIL_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
3/22/2024 14:33	58402	MORO_T1	0	0	0	0	0	0	-0.28	-0.32	4	4	0	3000	3000	0
3/22/2024 14:33	40101	HUNT_T2	0	0	0	0	0	0	-0.4	-0.32	0	0	0	0	0	0
3/22/2024 14:34	43202	MVIL_T2	0	0	0	0	0	0	-1.19	-1.23	0	0	0	0	0	0
3/22/2024 14:34	47401	PENS_T1	0	0	0	0	0	0	1.67	1.7	0	0	0	0	0	0
3/22/2024 14:34	52004	LING_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
3/22/2024 14:35	65804	RTWN_T1	0	0	0	0	0	0	-0.18	-0.17	1	1	0	600	600	0
3/22/2024 14:35	40101	HUNT_T2	0	0	0	0	0	0	-1.21	-0.97	0	0	0	0	0	0
3/22/2024 14:35	42802	SELI_T1	0	0	0	0	0	0	-0.84	-0.85	1	1	0	900	900	0
3/22/2024 14:35	64101	REFR_T1	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
3/22/2024 14:35	58401	MORO_T1	0	0	0	0	0	0	-1.04	-1.03	1	1	0	600	600	0
3/22/2024 14:36	47401	PENS_T1	0	0	0	0	0	0	3.33	3.41	0	0	0	0	0	0
3/22/2024 14:36	14403	SSLA_T1	0	0	0	0	0	0	0.94	0.92	0	0	0	0	0	0
3/22/2024 14:36	43201	MVIL_T2	0	0	0	0	0	0	-0.33	-0.38	0	0	0	0	0	0
3/22/2024 14:37	40101	HUNT_T2	0	0	0	0	0	0	-0.4	-0.32	0	0	0	0	0	0
3/22/2024 14:37	47401	PENS_T1	0	0	0	0	0	0	1.67	1.7	0	0	0	0	0	0
3/22/2024 14:37	14403	SSLA_T1	0	0	0	0	0	0	0.94	0.92	0	0	0	0	0	0
3/22/2024 14:37	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/22/2024 14:38	42802	SELI_T1	0	0	0	0	0	0	-0.84	-0.85	1	1	0	900	900	0
3/22/2024 14:38	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 14:38	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
3/22/2024 14:38	45902	AUBU_T1	0	0	0	0	0	0	0	0	3	3	0	1800	1800	0
3/22/2024 14:39	42701	AUGU_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
3/22/2024 14:39	59101	WALK_T2	0	0	0	0	0	0	2.97	3.64	0	0	0	0	0	0
3/22/2024 14:39	45602	WOOL_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
3/22/2024 14:39	27502	WEIS_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
3/22/2024 14:39	46001	BERW_T1	0	0	0	0	0	0	0.82	0.78	0	0	0	0	0	0
3/22/2024 14:40	44301	BEAV_T2	0	0	0	0	0	0	-0.15	-0.16	1	1	0	600	600	0
3/22/2024 14:40	10801	CHHI_T1	0	0	0	0	0	0	-1.04	-0.97	1	1	0	900	900	0
3/22/2024 14:40	10805	CHHI_T2	0	0	0	0	0	0	-0.7	-0.76	1	1	0	600	600	0
3/22/2024 14:40	45402	WBLO_T2	0	0	0	0	0	0	-1.57	-1.51	0	0	0	0	0	0
3/22/2024 14:40	67401	WAKE_T2	0	0	0	0	0	0	-1.05	-0.95	0	0	0	0	0	0
3/22/2024 14:40	40101	HUNT_T2	0	0	0	0	0	0	-0.32	-0.38	0	0	0	0	0	0
3/22/2024 14:41	20403	ASHF_T2	0	0	0	0	0	0	-0.83	-0.88	0	0	0	0	0	0
3/22/2024 14:41	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/22/2024 14:41	67401	WAKE_T2	0	0	0	0	0	0	-1.05	-0.95	0	0	0	0	0	0
3/22/2024 14:41	10801	CHHI_T1	0	0	0	0	0	0	-1.04	-0.97	1	1	0	900	900	0
3/22/2024 14:41	46001	BERW_T1	0	0	0	0	0	0	2.47	2.34	0	0	0	0	0	0
3/22/2024 14:41	45602	WOOL_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
3/22/2024 14:42	42503	ALTA_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
3/22/2024 14:42	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-0.89	1	1	0	600	600	0
3/22/2024 14:43	60101	COCA_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
3/22/2024 14:43	20403	ASHF_T2	0	0	0	0	0	0	-0.83	-0.88	0	0	0	0	0	0
3/22/2024 14:44	45602	WOOL_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
3/22/2024 14:44	60101	COCA_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
3/22/2024 14:44	53903	HALI_T2	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
3/22/2024 14:44	54505	ENOL_T2	0	0	0	0	0	0	-1.32	-1.34	1	1	0	600	600	0
3/22/2024 14:46	45602	WOOL_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
3/22/2024 14:46	63602	LETO_T1	0	0	0	0	0	0	-0.5	-0.36	0	0	0	0	0	0
3/22/2024 14:46	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/22/2024 14:46	58401	MORO_T1	0	0	0	0	0	0	-1.03	-1.01	1	1	0	600	600	0
3/22/2024 14:46	54501	ENOL_T2	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
3/22/2024 14:47	58402	MORO_T1	0	0	0	0	0	0	-0.16	-0.16	2	2	0	1500	1500	0
3/22/2024 14:47	10801	CHHI_T1	0	0	0	0	0	0	-1.04	-0.97	1	1	0	900	900	0
3/22/2024 14:47	53903	HALI_T2	0	0	0	0	0	0	-0.26	-0.3	0	0	0	0	0	0
3/22/2024 14:48	43202	MVIL_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
3/22/2024 14:49	58402	MORO_T1	0	0	0	0	0	0	-0.16	-0.16	2	2	0	1500	1500	0
3/22/2024 14:49	43202	MVIL_T2	0	0	0	0	0	0	-1.23	-1.23	0	0	0	0	0	0
3/22/2024 14:50	59402	RFLD_T2	0	0	0	0	0	0	-0.23	-0.19	1	1	0	450	450	0
3/22/2024 14:50	47401	PENS_T1	0	0	0	0	0	0	0.85	0.69	0	0	0	0	0	0
3/22/2024 14:50	52004	LING_T2	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
3/22/2024 14:51	43201	MVIL_T2	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
3/22/2024 14:52	45602	WOOL_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
3/22/2024 14:52	59402	RFLD_T2	0	0	0	0	0	0	-0.46	-0.39	2	2	0	900	900	0
3/22/2024 14:52	47401	PENS_T1	0	0	0	0	0	0	2.56	2.07	0	0	0	0	0	0
3/22/2024 14:52	43108	SMIL_T2	0	0	0	0	0	0	-1.07	-1.06	1	1	0	1200	1200	0
3/22/2024 14:53	59402	RFLD_T2	0	0	0	0	0	0	-0.19	-0.1	1	1	0	450	450	0
3/22/2024 14:53	47401	PENS_T1	0	0	0	0	0	0	0.85	0.69	0	0	0	0	0	0
3/22/2024 14:53	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 14:54	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 14:54	45602	WOOL_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
3/22/2024 14:56	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 14:57	67103	SPRI_T1	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
3/22/2024 14:57	10801	CHHI_T1	0	0	0	0	0	0	-0.97	-0.99	1	1	0	900	900	0
3/22/2024 14:57	45602	WOOL_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
3/22/2024 14:57	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/22/2024 14:58	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 14:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 14:59	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 14:59	67103	SPRI_T1	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
3/22/2024 15:00	45602	WOOL_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
3/22/2024 15:02	10801	CHHI_T1	0	0	0	0	0	0	-0.97	-0.99	1	1	0	900	900	0
3/22/2024 15:02	59402	RFLD_T2	0	0	0	0	0	0	-0.19	-0.1	1	1	0	450	450	0
3/22/2024 15:02	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/22/2024 15:03	42001	MNVL_T2	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
3/22/2024 15:05	41902	REED_T1	0	0	0	0	0	0	3.43	3.24	0	0	0	0	0	0
3/22/2024 15:05	42001	MNVL_T2	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
3/22/2024 15:07	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/22/2024 15:08	59402	RFLD_T2	0	0	0	0	0	0	-0.21	-1.36	2	2	0	900	900	0
3/22/2024 15:10	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 15:11	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 15:13	10801	CHHI_T1	0	0	0	0	0	0	-0.99	-0.98	1	1	0	900	900	0
3/22/2024 15:13	45902	AUBU_T1	0	0	0	0	0	0	0	-0.66	1	1	0	600	600	0
3/22/2024 15:13	46802	HEPB_T1	0	0	0	0	0	0	-1.29	-1.29	0	0	0	0	0	0
3/22/2024 15:14	46802	HEPB_T1	0	0	0	0	0	0	-1.29	-1.29	0	0	0	0	0	0
3/22/2024 15:17	46506	LOHA_T1	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
3/22/2024 15:18	10801	CHHI_T1	0	0	0	0	0	0	-0.99	-0.98	1	1	0	900	900	0
3/22/2024 15:19	46506	LOHA_T1	0	0	0	0	0	0	-0.79	-0.83	0	0	0	0	0	0
3/22/2024 15:19	46301	ROHR_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
3/22/2024 15:21	46301	ROHR_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
3/22/2024 15:22	40603	PIGR_T1	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
3/22/2024 15:23	43104	SMIL_T2	0	0	0	0	0	0	-0.81	-0.8	1	1	0	300	300	0
3/22/2024 15:23	45902	AUBU_T1	0	0	0	0	0	0	-0.66	-0.69	1	1	0	600	600	0
3/22/2024 15:23	10801	CHHI_T1	0	0	0	0	0	0	-0.98	-0.97	1	1	0	900	900	0
3/22/2024 15:26	10805	CHHI_T2	0	0	0	0	0	0	-1.3	-0.36	1	0	-1	600	0	-600
3/22/2024 15:27	44301	BEAV_T2	0	0	0	0	0	0	-0.18	-0.42	1	1	0	600	600	0
3/22/2024 15:28	45902	AUBU_T1	0	0	0	0	0	0	-0.66	-0.69	1	1	0	600	600	0
3/22/2024 15:28	10805	CHHI_T2	0	0	0	0	0	0	-1.3	-0.36	1	0	-1	600	0	-600
3/22/2024 15:29	10801	CHHI_T1	0	0	0	0	0	0	-0.98	-0.97	1	1	0	900	900	0
3/22/2024 15:34	13302	ORVI_T2	0	0	0	0	0	0	1.44	1.37	0	0	0	0	0	0
3/22/2024 15:34	64203	KINZ_T1	0	0	0	0	0	0	2.15	1.94	2	2	0	1200	1200	0
3/22/2024 15:35	64202	KINZ_T1	0	0	0	0	0	0	0.61	0.57	0	0	0	0	0	0
3/22/2024 15:39	45902	AUBU_T1	0	0	0	0	0	0	-0.69	-0.76	1	1	0	600	600	0
3/22/2024 15:39	10801	CHHI_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	900	900	0
3/22/2024 15:42	60201	ATGL_T2	0	0	0	0	0	0	0.61	0.56	0	0	0	0	0	0
3/22/2024 15:42	20403	ASHF_T2	0	0	0	0	0	0	-0.75	-0.71	0	0	0	0	0	0
3/22/2024 15:43	60701	BREC_T1	0	0	0	0	0	0	-0.34	-0.48	1	1	0	600	600	0
3/22/2024 15:44	10801	CHHI_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	900	900	0
3/22/2024 15:44	45902	AUBU_T1	0	0	0	0	0	0	-0.69	-0.76	1	1	0	600	600	0
3/22/2024 15:48	25503	MADI_T1	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
3/22/2024 15:49	62604	ENGL_T1	0	0	0	0	0	0	-0.28	-0.31	1	1	0	600	600	0
3/22/2024 15:50	62604	ENGL_T1	0	0	0	0	0	0	-0.28	-0.31	1	1	0	600	600	0
3/22/2024 15:51	62604	ENGL_T1	0	0	0	0	0	0	-0.56	-0.63	2	2	0	1200	1200	0
3/22/2024 15:54	45901	AUBU_T1	0	0	0	0	0	0	1.48	1.5	0	0	0	0	0	0
3/22/2024 15:55	10801	CHHI_T1	0	0	0	0	0	0	-0.97	-0.92	1	1	0	900	900	0
3/22/2024 15:55	45902	AUBU_T1	0	0	0	0	0	0	-0.76	-0.82	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/22/2024 15:57	60801	BUCK_T1	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
3/22/2024 15:58	62604	ENGL_T1	0	0	0	0	0	0	-0.31	-0.36	1	1	0	600	600	0
3/22/2024 16:00	45902	AUBU_T1	0	0	0	0	0	0	-0.76	-0.82	1	1	0	600	600	0
3/22/2024 16:00	44301	BEAV_T2	0	0	0	0	0	0	-0.54	-0.52	1	1	0	600	600	0
3/22/2024 16:00	10801	CHHI_T1	0	0	0	0	0	0	-0.97	-0.92	1	1	0	900	900	0
3/22/2024 16:01	40101	HUNT_T2	0	0	0	0	0	0	-1.36	-1.16	0	0	0	0	0	0
3/22/2024 16:07	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 16:09	45902	AUBU_T1	0	0	0	0	0	0	-0.82	-0.78	1	1	0	600	600	0
3/22/2024 16:10	45901	AUBU_T1	0	0	0	0	0	0	1.5	1.53	0	0	0	0	0	0
3/22/2024 16:11	45902	AUBU_T1	0	0	0	0	0	0	-0.82	-0.78	1	1	0	600	600	0
3/22/2024 16:16	45902	AUBU_T1	0	0	0	0	0	0	-0.82	-0.78	1	1	0	600	600	0
3/22/2024 16:18	40902	JESH_T1	0	0	0	0	0	0	-0.72	-0.76	0	0	0	0	0	0
3/22/2024 16:20	17002	RIRO_T2	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
3/22/2024 16:24	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 16:25	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 16:25	46206	DANV_T2	0	0	0	0	0	0	2.11	2.09	1	1	0	1200	1200	0
3/22/2024 16:26	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 16:26	10801	CHHI_T1	0	0	0	0	0	0	-0.94	-0.92	1	1	0	900	900	0
3/22/2024 16:26	45902	AUBU_T1	0	0	0	0	0	0	-0.78	-0.8	1	1	0	600	600	0
3/22/2024 16:32	10801	CHHI_T1	0	0	0	0	0	0	-0.94	-0.92	1	1	0	900	900	0
3/22/2024 16:32	45902	AUBU_T1	0	0	0	0	0	0	-0.78	-0.8	1	1	0	600	600	0
3/22/2024 16:42	10801	CHHI_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	900	900	0
3/22/2024 16:47	10801	CHHI_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	900	900	0
3/22/2024 16:58	10801	CHHI_T1	0	0	0	0	0	0	-0.92	-0.93	1	1	0	900	900	0
3/22/2024 17:03	10801	CHHI_T1	0	0	0	0	0	0	-0.92	-0.93	1	1	0	900	900	0
3/22/2024 17:21	54502	ENOL_T2	0	0	0	0	0	0	-1.12	-1.16	1	1	0	600	600	0
3/22/2024 17:47	64305	LINC_T1	0	0	0	0	0	0	-0.51	-0.41	0	0	0	0	0	0
3/22/2024 17:54	45902	AUBU_T1	0	0	0	0	0	0	-0.83	-0.87	1	1	0	600	600	0
3/22/2024 20:05	67204	TEHI_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
3/22/2024 20:11	67204	TEHI_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
3/22/2024 20:15	13503	MCMI_T2	0	0	0	0	0	0	-0.76	-0.77	0	0	0	0	0	0
3/22/2024 20:16	20403	ASHF_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
3/22/2024 20:22	42201	SHEN_T2	0	0	0	0	0	0	0.03	0.02	1	1	0	600	600	0
3/22/2024 20:27	56802	BENV_T2	0	0	0	0	0	0	-1.35	-1.36	0	0	0	0	0	0
3/22/2024 20:28	52403	GRPA_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
3/22/2024 20:28	56802	BENV_T2	0	0	0	0	0	0	-2.71	-2.71	0	0	0	0	0	0
3/22/2024 20:30	56802	BENV_T2	0	0	0	0	0	0	-1.35	-1.36	0	0	0	0	0	0
3/22/2024 20:33	52403	GRPA_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
3/22/2024 20:35	52404	GRPA_T2	0	0	0	0	0	0	-0.08	-0.23	0	0	0	0	0	0
3/22/2024 20:47	59402	RFLD_T2	0	0	0	0	0	0	-0.86	-0.88	1	1	0	450	450	0
3/22/2024 20:50	48301	ORWI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 20:54	65004	NEFF_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
3/22/2024 20:55	51107	CARL_T1	0	0	0	0	0	0	-0.12	-0.35	0	0	0	0	0	0
3/22/2024 20:56	51107	CARL_T1	0	0	0	0	0	0	-0.12	-0.35	0	0	0	0	0	0
3/22/2024 20:56	46702	RENO_T1	0	0	0	0	0	0	-0.11	-0.15	0	0	0	0	0	0
3/22/2024 20:57	26401	INOR_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
3/22/2024 20:57	17002	RIRO_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
3/22/2024 20:57	28805	LAKE_T1	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
3/22/2024 20:58	17805	GILB_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
3/22/2024 20:58	45501	DERR_T2	0	0	0	0	0	0	-0.08	0.16	2	2	0	1800	1800	0
3/22/2024 20:59	45501	DERR_T2	0	0	0	0	0	0	-0.16	0.31	4	4	0	3600	3600	0
3/22/2024 20:59	16503	STRO_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
3/22/2024 21:00	13501	MCMI_T1	0	0	0	0	0	0	0.47	0.5	0	0	0	0	0	0
3/22/2024 21:00	60101	COCA_T1	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
3/22/2024 21:00	12505	MITR_T2	0	0	0	0	0	0	0.41	0.35	0	0	0	0	0	0
3/22/2024 21:01	67103	SPRI_T1	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
3/22/2024 21:01	46302	ROHR_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
3/22/2024 21:01	60701	BREC_T1	0	0	0	0	0	0	-0.51	-0.54	1	1	0	600	600	0
3/22/2024 21:01	10805	CHHI_T2	0	0	0	0	0	0	-1.06	-1.09	1	1	0	600	600	0
3/22/2024 21:01	14203	EALL_T1	0	0	0	0	0	0	-0.51	-0.46	1	1	0	1200	1200	0
3/22/2024 21:01	28704	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/22/2024 21:02	29402	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:02	64203	KINZ_T1	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
3/22/2024 21:02	13503	MCMI_T2	0	0	0	0	0	0	-0.75	-0.78	0	0	0	0	0	0
3/22/2024 21:02	17805	GILB_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
3/22/2024 21:03	10805	CHHI_T2	0	0	0	0	0	0	-1.06	-1.09	1	1	0	600	600	0
3/22/2024 21:03	60701	BREC_T1	0	0	0	0	0	0	-0.51	-0.54	1	1	0	600	600	0
3/22/2024 21:03	55105	WERT_T1	0	0	0	0	0	0	-0.59	-0.61	1	1	0	900	900	0
3/22/2024 21:03	10801	CHHI_T1	0	0	0	0	0	0	-0.93	-0.92	1	1	0	900	900	0
3/22/2024 21:03	48302	ORWI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/22/2024 21:04	67103	SPRI_T1	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
3/22/2024 21:04	46802	HEPB_T1	0	0	0	0	0	0	-1.21	-1.17	0	0	0	0	0	0
3/22/2024 21:04	10805	CHHI_T2	0	0	0	0	0	0	-1.06	-1.09	1	1	0	600	600	0
3/22/2024 21:04	15704	TANN_T1	0	0	0	0	0	0	-0.88	-1.14	0	0	0	0	0	0
3/22/2024 21:04	29402	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:04	25402	LAHA_T2	0	0	0	0	0	0	-0.76	-0.77	0	0	0	0	0	0
3/22/2024 21:04	17802	GILB_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
3/22/2024 21:05	60701	BREC_T1	0	0	0	0	0	0	-0.51	-0.54	1	1	0	600	600	0
3/22/2024 21:05	13302	ORVI_T2	0	0	0	0	0	0	1.25	1.33	0	0	0	0	0	0
3/22/2024 21:06	10805	CHHI_T2	0	0	0	0	0	0	-1.06	-1.09	1	1	0	600	600	0
3/22/2024 21:06	48302	ORWI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/22/2024 21:06	46301	ROHR_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
3/22/2024 21:06	67502	WEWI_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
3/22/2024 21:07	67203	TEHI_T1	0	0	0	0	0	0	1.16	1.71	1	0	-1	600	0	-600
3/22/2024 21:07	65001	NEFF_T2	0	0	0	0	0	0	-2.51	-2.66	2	2	0	2400	2400	0
3/22/2024 21:07	29402	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:07	45702	LIND_T2	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
3/22/2024 21:07	60201	ATGL_T2	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
3/22/2024 21:07	56802	BENV_T2	0	0	0	0	0	0	-1.42	-1.4	0	0	0	0	0	0
3/22/2024 21:07	49803	UNIV_T1	0	0	0	0	0	0	-1.12	-1.14	0	0	0	0	0	0
3/22/2024 21:08	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
3/22/2024 21:08	56802	BENV_T2	0	0	0	0	0	0	-2.81	-2.81	0	0	0	0	0	0
3/22/2024 21:08	62604	ENGL_T1	0	0	0	0	0	0	-0.51	-0.54	1	1	0	600	600	0
3/22/2024 21:09	67605	WARW_T1	0	0	0	0	0	0	-0.97	-0.97	0	0	0	0	0	0
3/22/2024 21:09	13503	MCMI_T2	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
3/22/2024 21:09	64101	REPB_T1	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
3/22/2024 21:09	56802	BENV_T2	0	0	0	0	0	0	-4.21	-4.21	0	0	0	0	0	0
3/22/2024 21:09	17805	GILB_T2	0	0	0	0	0	0	-0.1	-0.16	0	0	0	0	0	0
3/22/2024 21:09	43201	MVIL_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
3/22/2024 21:09	47001	HUGH_T2	0	0	0	0	0	0	-0.78	-0.81	0	0	0	0	0	0
3/22/2024 21:09	14801	TREI_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
3/22/2024 21:10	56802	BENV_T2	0	0	0	0	0	0	-1.4	-1.4	0	0	0	0	0	0
3/22/2024 21:10	15702	TANN_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
3/22/2024 21:10	63602	LETO_T1	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
3/22/2024 21:10	26001	WDAM_T1	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0
3/22/2024 21:10	45602	WOOL_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
3/22/2024 21:10	17802	GILB_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
3/22/2024 21:10	17805	GILB_T2	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
3/22/2024 21:10	66504	SMAN_T2	0	0	0	0	0	0	-1.11	-1.25	0	0	0	0	0	0
3/22/2024 21:10	48302	ORWI_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
3/22/2024 21:10	64202	KINZ_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
3/22/2024 21:10	43202	MVIL_T2	0	0	0	0	0	0	-0.64	-0.67	0	0	0	0	0	0
3/22/2024 21:11	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:11	64801	MONE_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
3/22/2024 21:11	60803	BUCK_T1	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
3/22/2024 21:11	52501	PROG_T1	0	0	0	0	0	0	0.37	0.37	1	1	0	300	300	0
3/22/2024 21:11	67603	WARW_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
3/22/2024 21:11	16402	MOPO_T1	0	0	0	0	0	0	-0.05	0	0	0	0	0	0	0
3/22/2024 21:11	62604	ENGL_T1	0	0	0	0	0	0	-0.54	-0.53	1	1	0	600	600	0
3/22/2024 21:11	67502	WEWI_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
3/22/2024 21:11	59301	MCAL_T1	0	0	0	0	0	0	-1.21	-1.19	0	0	0	0	0	0
3/22/2024 21:12	60101	COCA_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
3/22/2024 21:12	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:12	45601	WOOL_T1	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
3/22/2024 21:12	46001	BERW_T1	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
3/22/2024 21:12	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.16	0	0	0	0	0	0
3/22/2024 21:12	67603	WARW_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
3/22/2024 21:12	43202	MVIL_T2	0	0	0	0	0	0	-0.64	-0.67	0	0	0	0	0	0
3/22/2024 21:12	56802	BENV_T2	0	0	0	0	0	0	-2.81	-2.81	0	0	0	0	0	0
3/22/2024 21:12	45501	DERR_T2	0	0	0	0	0	0	0.16	0.09	2	2	0	1800	1800	0
3/22/2024 21:13	59003	MIFF_T1	0	0	0	0	0	0	0.38	0.67	0	0	0	0	0	0
3/22/2024 21:13	67401	WAKE_T2	0	0	0	0	0	0	-0.96	-0.91	0	0	0	0	0	0
3/22/2024 21:13	59101	WALK_T2	0	0	0	0	0	0	-0.25	0.27	0	0	0	0	0	0
3/22/2024 21:13	60803	BUCK_T1	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
3/22/2024 21:13	60201	ATGL_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
3/22/2024 21:13	45501	DERR_T2	0	0	0	0	0	0	0.16	0.09	2	2	0	1800	1800	0
3/22/2024 21:13	62604	ENGL_T1	0	0	0	0	0	0	-0.54	-0.53	1	1	0	600	600	0
3/22/2024 21:13	44601	SALE_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
3/22/2024 21:13	15702	TANN_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
3/22/2024 21:14	25503	MADI_T1	0	0	0	0	0	0	-0.96	-0.97	0	0	0	0	0	0
3/22/2024 21:14	46206	DANV_T2	0	0	0	0	0	0	1.63	1.86	1	1	0	1200	1200	0
3/22/2024 21:14	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:14	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
3/22/2024 21:14	56802	BENV_T2	0	0	0	0	0	0	-1.4	-1.4	0	0	0	0	0	0
3/22/2024 21:14	46301	ROHR_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
3/22/2024 21:14	60201	ATGL_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
3/22/2024 21:14	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:14	45901	AUBU_T1	0	0	0	0	0	0	1.8	2.07	0	0	0	0	0	0
3/22/2024 21:14	64203	KINZ_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
3/22/2024 21:15	45902	AUBU_T1	0	0	0	0	0	0	-1.75	-1.78	2	2	0	1200	1200	0
3/22/2024 21:15	49803	UNIV_T1	0	0	0	0	0	0	-1.14	-1.13	0	0	0	0	0	0
3/22/2024 21:15	46802	HEPB_T1	0	0	0	0	0	0	-1.17	-1.21	0	0	0	0	0	0
3/22/2024 21:15	67605	WARW_T1	0	0	0	0	0	0	-1.94	-1.95	0	0	0	0	0	0
3/22/2024 21:15	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
3/22/2024 21:15	42001	MNVL_T2	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
3/22/2024 21:15	62604	ENGL_T1	0	0	0	0	0	0	-0.54	-0.53	1	1	0	600	600	0
3/22/2024 21:15	56801	BENV_T1	0	0	0	0	0	0	-0.77	-0.75	1	1	0	600	600	0
3/22/2024 21:16	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:16	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:16	59402	RFLD_T2	0	0	0	0	0	0	-0.89	-0.88	1	1	0	450	450	0
3/22/2024 21:16	46801	HEPB_T2	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
3/22/2024 21:16	46203	DANV_T2	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
3/22/2024 21:16	42001	MNVL_T2	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/22/2024 21:16	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:16	14403	SSLA_T1	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
3/22/2024 21:16	45902	AUBU_T1	0	0	0	0	0	0	-0.87	-0.89	1	1	0	600	600	0
3/22/2024 21:16	28805	LAKE_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
3/22/2024 21:16	46004	BERW_T2	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
3/22/2024 21:16	62604	ENGL_T1	0	0	0	0	0	0	-0.54	-0.53	1	1	0	600	600	0
3/22/2024 21:16	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/22/2024 21:17	42503	ALTA_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
3/22/2024 21:17	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:17	59101	WALK_T2	0	0	0	0	0	0	-0.25	0.27	0	0	0	0	0	0
3/22/2024 21:17	48901	FOSP_T2	0	0	0	0	0	0	-0.45	-0.44	1	1	0	600	600	0
3/22/2024 21:17	45902	AUBU_T1	0	0	0	0	0	0	-1.75	-1.78	2	2	0	1200	1200	0
3/22/2024 21:17	44601	SALE_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
3/22/2024 21:17	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/22/2024 21:17	40602	PIGR_T1	0	0	0	0	0	0	-1.4	-1.4	2	2	0	1200	1200	0
3/22/2024 21:17	46302	ROHR_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
3/22/2024 21:18	58402	MORO_T1	0	0	0	0	0	0	-0.31	-0.34	2	2	0	1500	1500	0
3/22/2024 21:18	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
3/22/2024 21:18	47401	PENS_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
3/22/2024 21:18	42902	MIDD_T2	0	0	0	0	0	0	-1.2	-1.35	0	0	0	0	0	0
3/22/2024 21:18	48301	ORWI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:18	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:18	46001	BERW_T1	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
3/22/2024 21:18	54501	ENOL_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
3/22/2024 21:18	27502	WEIS_T2	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
3/22/2024 21:18	65902	SAKR_T2	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
3/22/2024 21:18	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:18	54505	ENOL_T2	0	0	0	0	0	0	-1.24	-1.28	1	1	0	600	600	0
3/22/2024 21:19	60701	BREC_T1	0	0	0	0	0	0	-0.54	-0.52	1	1	0	600	600	0
3/22/2024 21:19	64802	MONE_T2	0	0	0	0	0	0	-0.09	0.02	0	0	0	0	0	0
3/22/2024 21:19	13501	MCMI_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
3/22/2024 21:19	40603	PIGR_T1	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
3/22/2024 21:19	40301	TAMA_T3	0	0	0	0	0	0	0.64	0.61	2	2	0	1800	1800	0
3/22/2024 21:19	53903	HALI_T2	0	0	0	0	0	0	-0.19	-0.13	0	0	0	0	0	0
3/22/2024 21:19	57401	SPAN_T1	0	0	0	0	0	0	-0.82	-0.81	1	1	0	600	600	0
3/22/2024 21:19	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:19	48901	FOSP_T2	0	0	0	0	0	0	-0.45	-0.44	1	1	0	600	600	0
3/22/2024 21:19	17804	GILB_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
3/22/2024 21:19	44301	BEAV_T2	0	0	0	0	0	0	-0.5	-0.46	1	1	0	600	600	0
3/22/2024 21:19	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
3/22/2024 21:20	59402	RFLD_T2	0	0	0	0	0	0	-0.89	-0.88	1	1	0	450	450	0
3/22/2024 21:20	43104	SMIL_T2	0	0	0	0	0	0	-0.78	-0.8	1	1	0	300	300	0
3/22/2024 21:20	42501	ALTA_T2	0	0	0	0	0	0	0.01	-0.04	1	1	0	600	600	0
3/22/2024 21:20	67401	WAKE_T2	0	0	0	0	0	0	-0.96	-0.91	0	0	0	0	0	0
3/22/2024 21:20	14403	SSLA_T1	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
3/22/2024 21:20	42903	MIDD_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
3/22/2024 21:20	47401	PENS_T1	0	0	0	0	0	0	1.94	1.96	0	0	0	0	0	0
3/22/2024 21:20	57403	SPAN_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
3/22/2024 21:20	57401	SPAN_T1	0	0	0	0	0	0	-1.65	-1.62	2	2	0	1200	1200	0
3/22/2024 21:20	55002	NEWP_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
3/22/2024 21:20	54505	ENOL_T2	0	0	0	0	0	0	-1.24	-1.28	1	1	0	600	600	0
3/22/2024 21:20	20403	ASHF_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
3/22/2024 21:20	59302	MCAL_T1	0	0	0	0	0	0	-0.58	-0.55	1	1	0	600	600	0
3/22/2024 21:21	59402	RFLD_T2	0	0	0	0	0	0	-0.89	-0.88	1	1	0	450	450	0
3/22/2024 21:21	64203	KINZ_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
3/22/2024 21:21	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:21	51002	NHAR_T1	0	0	0	0	0	0	-1.35	-1.35	0	0	0	0	0	0
3/22/2024 21:21	67201	TEHI_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
3/22/2024 21:21	23901	EFMO_T2	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
3/22/2024 21:21	13503	MCMI_T2	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
3/22/2024 21:21	45402	WBLO_T2	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
3/22/2024 21:21	55002	NEWP_T1	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
3/22/2024 21:21	42903	MIDD_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
3/22/2024 21:21	57304	MOAL_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
3/22/2024 21:21	40902	JESH_T1	0	0	0	0	0	0	-0.8	-0.88	0	0	0	0	0	0
3/22/2024 21:21	47401	PENS_T1	0	0	0	0	0	0	1.29	1.31	0	0	0	0	0	0
3/22/2024 21:21	54501	ENOL_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
3/22/2024 21:21	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.16	0	0	0	0	0	0
3/22/2024 21:21	43108	SMIL_T2	0	0	0	0	0	0	-1.12	-1.09	1	1	0	1200	1200	0
3/22/2024 21:21	40101	HUNT_T2	0	0	0	0	0	0	-0.96	-1.02	0	0	0	0	0	0
3/22/2024 21:22	46004	BERW_T2	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
3/22/2024 21:22	42902	MIDD_T2	0	0	0	0	0	0	-1.2	-1.35	0	0	0	0	0	0
3/22/2024 21:22	42601	TUSC_T1	0	0	0	0	0	0	-0.45	-0.5	2	2	0	1800	1800	0
3/22/2024 21:22	42802	SELI_T1	0	0	0	0	0	0	-1.04	-1.03	1	1	0	900	900	0
3/22/2024 21:22	40902	JESH_T1	0	0	0	0	0	0	-0.8	-0.88	0	0	0	0	0	0
3/22/2024 21:22	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:22	43202	MVIL_T2	0	0	0	0	0	0	-0.64	-0.67	0	0	0	0	0	0
3/22/2024 21:22	52402	GRPA_T2	0	0	0	0	0	0	-0.88	-0.84	0	0	0	0	0	0
3/22/2024 21:22	54505	ENOL_T2	0	0	0	0	0	0	-1.24	-1.28	1	1	0	600	600	0
3/22/2024 21:22	54504	ENOL_T2	0	0	0	0	0	0	-0.92	-1.01	1	1	0	600	600	0
3/22/2024 21:22	42903	MIDD_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
3/22/2024 21:22	57304	MOAL_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
3/22/2024 21:22	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:23	40101	HUNT_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
3/22/2024 21:23	46203	DANV_T2	0	0	0	0	0	0	-1.98	-1.96	0	0	0	0	0	0
3/22/2024 21:23	47401	PENS_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
3/22/2024 21:23	42902	MIDD_T2	0	0	0	0	0	0	-1.2	-1.35	0	0	0	0	0	0
3/22/2024 21:23	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:23	52004	LING_T2	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
3/22/2024 21:23	42701	AUGU_T1	0	0	0	0	0	0	0	8	8	8	0	7200	7200	0
3/22/2024 21:24	55002	NEWP_T1	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
3/22/2024 21:24	48302	ORWI_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
3/22/2024 21:24	44301	BEAV_T2	0	0	0	0	0	0	-0.46	-0.38	1	1	0	600	600	0
3/22/2024 21:24	42201	SHEN_T2	0	0	0	0	0	0	0.02	0.01	1	1	0	600	600	0
3/22/2024 21:24	57403	SPAN_T1	0	0	0	0	0	0	0.07	0.1	0	0	0	0	0	0
3/22/2024 21:24	45402	WBLO_T2	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
3/22/2024 21:24	54505	ENOL_T2	0	0	0	0	0	0	-1.28	-1.25	1	1	0	600	600	0
3/22/2024 21:24	45802	HEGI_T2	0	0	0	0	0	0	1.03	1.03	0	0	0	0	0	0
3/22/2024 21:24	40101	HUNT_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
3/22/2024 21:24	20403	ASHF_T2	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
3/22/2024 21:24	46206	DANV_T2	0	0	0	0	0	0	1.86	1.9	1	1	0	1200	1200	0
3/22/2024 21:25	46001	BERW_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
3/22/2024 21:25	54503	ENOL_T2	0	0	0	0	0	0	-2.49	-2.46	2	2	0	1200	1200	0
3/22/2024 21:25	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:25	42802	SELI_T1	0	0	0	0	0	0	-1.03	-1.05	1	1	0	900	900	0
3/22/2024 21:25	57401	SPAN_T1	0	0	0	0	0	0	-1.62	-1.66	2	2	0	1200	1200	0
3/22/2024 21:25	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.18	1	1	0	600	600	0
3/22/2024 21:26	40101	HUNT_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
3/22/2024 21:26	40602	PIGR_T1	0	0	0	0	0	0	-0.7	-0.71	1	1	0	600	600	0
3/22/2024 21:26	47401	PENS_T1	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
3/22/2024 21:26	45802	HEGI_T2	0	0	0	0	0	0	1.03	1.03	0	0	0	0	0	0
3/22/2024 21:26	53903	HALI_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
3/22/2024 21:26	58402	MORO_T1	0	0	0	0	0	0	-0.34	-0.34	2	2	0	1500	1500	0
3/22/2024 21:26	54502	ENOL_T2	0	0	0	0	0	0	-1.14	-1.16	1	1	0	600	600	0
3/22/2024 21:27	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:27	55002	NEWP_T1	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
3/22/2024 21:27	45902	AUBU_T1	0	0	0	0	0	0	-0.89	-1.02	1	1	0	600	600	0
3/22/2024 21:27	20403	ASHF_T2	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
3/22/2024 21:28	57403	SPAN_T1	0	0	0	0	0	0	0.07	0.1	0	0	0	0	0	0
3/22/2024 21:28	41902	REED_T1	0	0	0	0	0	0	1.08	1.01	0	0	0	0	0	0
3/22/2024 21:29	59101	WALK_T2	0	0	0	0	0	0	0.27	0.42	0	0	0	0	0	0
3/22/2024 21:29	45402	WBLO_T2	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
3/22/2024 21:29	41902	REED_T1	0	0	0	0	0	0	2.16	2.03	0	0	0	0	0	0
3/22/2024 21:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:30	52402	GRPA_T2	0	0	0	0	0	0	-0.84	-0.8	0	0	0	0	0	0
3/22/2024 21:30	52403	GRPA_T2	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
3/22/2024 21:32	53903	HALI_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
3/22/2024 21:32	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2024 21:40	53903	HALI_T2	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
3/22/2024 21:47	46001	BERW_T1	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
3/22/2024 22:38	54503	ENOL_T2	0	0	0	0	0	0	-1.28	-1.29	1	1	0	600	600	0
3/23/2024 0:24	64305	LINC_T1	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
3/23/2024 0:30	52004	LING_T2	1	1	0	0.6	0.3	-0.3	0.1	0.13	0	0	0	0	0	0
3/23/2024 7:54	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
3/23/2024 7:54	29402	BELT_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
3/23/2024 7:55	29402	BELT_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
3/23/2024 7:55	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/23/2024 8:11	29402	BELT_T1	1	1	0	6.3	5.9	-0.4	0	0	0	0	0	0	0	0
3/23/2024 8:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/23/2024 8:12	46801	HEPB_T2	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
3/23/2024 8:12	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/23/2024 8:12	29402	BELT_T1	1	1	0	6.3	5.9	-0.4	0	0	0	0	0	0	0	0
3/23/2024 8:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/23/2024 8:13	29402	BELT_T1	1	1	0	6.3	5.9	-0.4	0	0	0	0	0	0	0	0
3/23/2024 8:16	46801	HEPB_T2	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
3/23/2024 8:16	29402	BELT_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
3/23/2024 8:16	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/23/2024 8:19	67103	SPRI_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
3/23/2024 8:21	67103	SPRI_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
3/23/2024 8:24	46203	DANV_T2	0	0	0	0	0	0	-4.49	-4.32	0	0	0	0	0	0
3/23/2024 8:24	46204	DANV_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
3/23/2024 8:25	45502	DERR_T2	1	2	1	1.2	0.5	-0.7	0	0	0	0	0	0	0	0
3/23/2024 8:25	45501	DERR_T2	0	0	0	0	0	0	-0.29	-0.31	2	2	0	1800	1800	0
3/23/2024 8:34	41902	REED_T1	6	19	13	1.25	0.74	-0.51	0.91	0.95	0	0	0	0	0	0
3/23/2024 8:36	13905	SEID_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/23/2024 8:36	13901	SEID_T1	0	0	0	0	0	0	0	0.23	0	0	0	0	0	0
3/23/2024 8:36	41902	REED_T1	6	19	13	1.25	0.74	-0.51	0.91	0.95	0	0	0	0	0	0
3/23/2024 8:37	41902	REED_T1	6	19	13	1.25	0.74	-0.51	0.91	0.95	0	0	0	0	0	0
3/23/2024 8:44	20603	GRWO_T2	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
3/23/2024 8:44	20601	GRWO_T2	4	9	5	1.15	0.85	-0.3	0.78	0.82	0	0	0	0	0	0
3/23/2024 8:53	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 8:53	40502	CRES_T2	0	6	6	0	0.13	0.13	-0.7	-0.7	0	0	0	0	0	0
3/23/2024 8:57	40101	HUNT_T2	0	1	1	0	1	1	-0.57	-0.57	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/23/2024 8:59	44801	EDAN_T2	1	1	0	1.6	1.7	0.1	0.43	0.53	0	0	0	0	0	0
3/23/2024 8:59	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 8:59	40101	HUNT_T2	0	1	1	0	1	1	-0.57	-0.57	0	0	0	0	0	0
3/23/2024 9:01	25402	LAHA_T2	0	0	0	0	0	0	-0.76	-0.71	0	0	0	0	0	0
3/23/2024 9:02	40101	HUNT_T2	1	1	0	1	1.1	0.1	-0.57	-0.57	0	0	0	0	0	0
3/23/2024 9:09	45901	AUBU_T1	0	0	0	0	0	0	1.5	1.47	0	0	0	0	0	0
3/23/2024 9:09	10801	CHHI_T1	0	1	1	0	0	0	-1.47	-1.49	2	2	0	1500	1500	0
3/23/2024 9:14	10801	CHHI_T1	0	1	1	0	0	0	-1.47	-1.49	2	2	0	1500	1500	0
3/23/2024 9:17	13503	MCMI_T2	0	0	0	0	0	0	-0.75	-0.72	0	0	0	0	0	0
3/23/2024 9:21	67402	WAKE_T2	0	0	0	0	0	0	-0.47	-0.47	1	1	0	600	600	0
3/23/2024 9:23	45902	AUBU_T1	0	0	0	0	0	0	-0.79	-0.82	1	1	0	600	600	0
3/23/2024 9:23	60201	ATGL_T2	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
3/23/2024 9:24	48302	ORWI_T2	2	2	0	1.1	0.95	-0.15	0	0	0	0	0	0	0	0
3/23/2024 9:24	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 9:24	40502	CRES_T2	6	11	5	0.13	0.22	0.09	-0.74	-0.72	0	0	0	0	0	0
3/23/2024 9:25	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 9:25	10801	CHHI_T1	0	2	2	0	0.4	0.4	-1.49	-1.43	2	2	0	1500	1500	0
3/23/2024 9:25	40502	CRES_T2	6	11	5	0.13	0.22	0.09	-1.48	-1.45	0	0	0	0	0	0
3/23/2024 9:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 9:28	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 9:30	10801	CHHI_T1	1	2	1	0.4	0.1	-0.3	-1.49	-1.43	2	2	0	1500	1500	0
3/23/2024 9:32	42902	MIDD_T2	5	3	-2	0.92	0.4	-0.52	-0.6	-0.55	0	0	0	0	0	0
3/23/2024 9:32	42903	MIDD_T2	2	2	0	1.15	0.9	-0.25	0	0	0	0	0	0	0	0
3/23/2024 9:33	42903	MIDD_T2	2	2	0	1.15	0.9	-0.25	0	0	0	0	0	0	0	0
3/23/2024 9:33	41902	REED_T1	1	0	-1	0.3	0	-0.3	-0.05	-0.03	0	0	0	0	0	0
3/23/2024 9:33	42902	MIDD_T2	5	3	-2	0.92	0.4	-0.52	-1.2	-1.11	0	0	0	0	0	0
3/23/2024 9:34	42201	SHEN_T2	0	0	0	0	0	0	0.01	0.02	1	1	0	600	600	0
3/23/2024 9:35	41902	REED_T1	1	0	-1	0.3	0	-0.3	-0.05	-0.03	0	0	0	0	0	0
3/23/2024 9:37	41902	REED_T1	1	0	-1	0.3	0	-0.3	-0.05	-0.03	0	0	0	0	0	0
3/23/2024 9:37	45902	AUBU_T1	0	0	0	0	0	0	-1.59	-1.65	2	2	0	1200	1200	0
3/23/2024 9:38	56801	BENV_T1	0	0	0	0	0	0	-0.68	-0.65	1	1	0	600	600	0
3/23/2024 9:38	56803	BENV_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/23/2024 9:39	56801	BENV_T1	0	0	0	0	0	0	-1.36	-1.3	2	2	0	1200	1200	0
3/23/2024 9:39	56803	BENV_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/23/2024 9:39	46206	DANV_T2	0	6	6	0	0	0	3.86	3.86	2	2	0	2400	2400	0
3/23/2024 9:40	56803	BENV_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/23/2024 9:40	56801	BENV_T1	0	0	0	0	0	0	-0.68	-0.65	1	1	0	600	600	0
3/23/2024 9:41	56801	BENV_T1	0	0	0	0	0	0	-0.68	-0.65	1	1	0	600	600	0
3/23/2024 9:41	56803	BENV_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/23/2024 9:42	56803	BENV_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/23/2024 9:42	56801	BENV_T1	0	0	0	0	0	0	-2.05	-1.95	3	3	0	1800	1800	0
3/23/2024 9:42	45902	AUBU_T1	0	0	0	0	0	0	-0.82	-0.77	1	1	0	600	600	0
3/23/2024 9:43	29402	BELT_T1	1	1	0	5.6	5	-0.6	0	0	0	0	0	0	0	0
3/23/2024 9:43	46203	DANV_T2	0	0	0	0	0	0	-4.38	-4.4	0	0	0	0	0	0
3/23/2024 9:43	46206	DANV_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 9:44	29402	BELT_T1	1	1	0	5.6	5	-0.6	0	0	0	0	0	0	0	0
3/23/2024 9:45	46206	DANV_T2	0	6	6	0	0	0	1.93	1.93	1	1	0	1200	1200	0
3/23/2024 9:47	26401	INOR_T1	0	1	1	0	0	0	0.58	0.55	0	0	0	0	0	0
3/23/2024 9:51	66504	SMAN_T2	0	0	0	0	0	0	-3.62	-3.55	2	2	0	2400	2400	0
3/23/2024 9:51	65901	SAKR_T2	1	1	0	7.3	7.5	0.2	-1.33	-1.24	1	1	0	900	900	0
3/23/2024 9:52	65901	SAKR_T2	1	1	0	7.3	7.5	0.2	-1.33	-1.24	1	1	0	900	900	0
3/23/2024 9:52	45902	AUBU_T1	0	0	0	0	0	0	-0.82	-0.77	1	1	0	600	600	0
3/23/2024 9:53	59101	WALK_T2	0	0	0	0	0	0	0.82	0.96	1	1	0	600	600	0
3/23/2024 9:53	67402	WAKE_T2	0	0	0	0	0	0	-0.43	-0.43	1	1	0	600	600	0
3/23/2024 9:56	45902	AUBU_T1	0	0	0	0	0	0	-0.77	-0.73	1	1	0	600	600	0
3/23/2024 9:58	56801	BENV_T1	0	0	0	0	0	0	-1.3	-1.27	2	2	0	1200	1200	0
3/23/2024 9:58	56803	BENV_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/23/2024 9:59	40101	HUNT_T2	0	1	1	0	0	0	-0.6	-0.61	0	0	0	0	0	0
3/23/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/23/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
3/23/2024 10:00	41902	REED_T1	0	0	0	0	0	0	-0.03	0.15	0	0	0	0	0	0
3/23/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 10:00	10801	CHHI_T1	1	1	0	0.1	0	-0.1	-1.43	-1.44	2	2	0	1500	1500	0
3/23/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.63	-0.58	0	0	0	0	0	0
3/23/2024 10:00	43202	MVIL_T2	1	2	1	0.2	1	0.8	0	0	0	0	0	0	0	0
3/23/2024 10:00	46206	DANV_T2	6	0	-6	0.57	0	-0.57	1.93	1.92	1	1	0	1200	1200	0
3/23/2024 10:00	40101	HUNT_T2	1	2	1	0.1	0	-0.1	-1.21	-1.22	0	0	0	0	0	0
3/23/2024 10:00	43201	MVIL_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
3/23/2024 10:00	40505	CRES_T1	1	2	1	4.4	0	-4.4	0.38	0.36	0	0	0	0	0	0
3/23/2024 10:00	57401	SPAN_T1	0	0	0	0	0	0	-2.12	-2.12	2	2	0	1200	1200	0
3/23/2024 10:00	53903	HALI_T2	1	2	1	0.1	0.45	0.35	-0.19	-0.23	0	0	0	0	0	0
3/23/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	-0.84	-0.83	1	1	0	600	600	0
3/23/2024 10:00	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
3/23/2024 10:00	28801	LAKE_T1	163	136	-27	0.27	0.27	0	0	0	0	0	0	0	0	0
3/23/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-0.74	-0.89	0	0	0	0	0	0
3/23/2024 10:00	46701	RENO_T1	3	16	13	2.87	0.63	-2.24	0	0	0	0	0	0	0	0
3/23/2024 10:00	42302	MOWR_T2	1	1	0	0.3	0	-0.3	0.42	0.42	0	0	0	0	0	0
3/23/2024 10:00	29402	BELT_T1	1	1	0	5	5.3	0.3	0	0	0	0	0	0	0	0
3/23/2024 10:00	53902	HALI_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
3/23/2024 10:00	45602	WOOL_T1	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
3/23/2024 10:00	46702	RENO_T1	1	4	3	0.2	0.15	-0.05	-0.15	-0.15	0	0	0	0	0	0
3/23/2024 10:00	48302	ORWI_T2	2	2	0	0.75	0.65	-0.1	-0.54	-0.54	0	0	0	0	0	0
3/23/2024 10:00	40502	CRES_T2	2	6	4	0.1	0.17	0.07	-0.71	-0.72	0	0	0	0	0	0
3/23/2024 10:00	62607	ENGL_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/23/2024 10:00	28805	LAKE_T1	0	0	0	0	0	0	-0.4	-0.36	0	0	0	0	0	0
3/23/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.51	-0.55	1	1	0	600	600	0
3/23/2024 10:02	12701	MACU_T1	0	0	0	0	0	0	-1.98	-1.94	2	2	0	2400	2400	0
3/23/2024 10:05	39601	LNFD_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 10:06	58402	MORO_T1	0	0	0	0	0	0	-0.44	-0.39	2	2	0	1500	1500	0
3/23/2024 10:06	12505	MITR_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
3/23/2024 10:06	12502	MITR_T2	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0	0
3/23/2024 10:07	40201	BEGA_T2	2	2	0	0.9	1.6	0.7	0	0	0	0	0	0	0	0
3/23/2024 10:07	54505	ENOL_T2	0	0	0	0	0	0	-1.18	-1.14	1	1	0	600	600	0
3/23/2024 10:07	45602	WOOL_T1	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
3/23/2024 10:07	67603	WARW_T1	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
3/23/2024 10:07	51401	LYKE_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
3/23/2024 10:07	45902	AUBU_T1	0	0	0	0	0	0	-0.77	-0.73	1	1	0	600	600	0
3/23/2024 10:07	53802	MBRG_T2	0	0	0	0	0	0	-0.24	-0.21	0	0	0	0	0	0
3/23/2024 10:07	65901	SAKR_T2	1	1	0	7.5	8.4	0.9	-1.24	-1.31	1	1	0	900	900	0
3/23/2024 10:07	40101	HUNT_T2	1	2	1	0.1	0	-0.1	-0.6	-0.61	0	0	0	0	0	0
3/23/2024 10:07	10801	CHHI_T1	1	1	0	0.1	0	-0.1	-1.43	-1.44	2	2	0	1500	1500	0
3/23/2024 10:07	60701	BREC_T1	0	1	1	0	0	0	-0.51	-0.51	1	1	0	600	600	0
3/23/2024 10:07	64902	MILL_T2	0	0	0	0	0	0	-1.35	-1.34	1	1	0	900	900	0
3/23/2024 10:08	52001	LING_T1	0	0	0	0	0	0	-0.98	-0.96	0	0	0	0	0	0
3/23/2024 10:08	65901	SAKR_T2	1	1	0	7.5	8.4	0.9	-1.24	-1.31	1	1	0	900	900	0
3/23/2024 10:08	56803	BENV_T1	1	1	0	0.5	1.5	1	0	0	0	0	0	0	0	0
3/23/2024 10:08	45902	AUBU_T1	0	0	0	0	0	0	-1.46	-1.58	2	2	0	1200	1200	0
3/23/2024 10:08	47101	MARL_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/23/2024 10:08	24102	EHAZ_T1	30	20	-10	1.01	1.14	0.13	0	0	0	0	0	0	0	0
3/23/2024 10:08	24105	EHAZ_T1	16	24	8	2.29	2.48	0.19	-0.59	-0.62	0	0	0	0	0	0
3/23/2024 10:08	24101	EHAZ_T1	45	68	23	1.44	0.86	-0.58	0	0	0	0	0	0	0	0
3/23/2024 10:08	56801	BENV_T1	0	6	6	0	0.83	0.83	-3.16	-3.21	5	5	0	3000	3000	0
3/23/2024 10:08	40101	HUNT_T2	1	2	1	0.1	0	-0.1	-0.61	-0.47	0	0	0	0	0	0
3/23/2024 10:08	57401	SPAN_T1	0	0	0	0	0	0	-1.06	-1.01	1	1	0	600	600	0
3/23/2024 10:08	40201	BEGA_T2	2	2	0	0.9	1.6	0.7	0	0	0	0	0	0	0	0
3/23/2024 10:08	67402	WAKE_T2	0	0	0	0	0	0	-0.86	-0.88	2	2	0	1200	1200	0
3/23/2024 10:08	47104	MARL_T1	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
3/23/2024 10:09	29402	BELT_T1	1	1	0	5	5.3	0.3	0	0	0	0	0	0	0	0
3/23/2024 10:09	42701	AUGU_T1	1	1	0	0.3	0.1	-0.2	0	0	4	4	0	3600	3600	0
3/23/2024 10:09	56803	BENV_T1	1	1	0	0.5	1.5	1	0	0	0	0	0	0	0	0
3/23/2024 10:09	59101	WALK_T2	0	0	0	0	0	0	0.96	0.85	1	1	0	600	600	0
3/23/2024 10:09	45902	AUBU_T1	0	0	0	0	0	0	-1.46	-1.58	2	2	0	1200	1200	0
3/23/2024 10:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/23/2024 10:09	56801	BENV_T1	0	6	6	0	0.83	0.83	-1.27	-1.28	2	2	0	1200	1200	0
3/23/2024 10:10	45501	DERR_T2	0	0	0	0	0	0	-0.26	-0.27	2	2	0	1800	1800	0
3/23/2024 10:10	56803	BENV_T1	1	1	0	0.5	1.5	1	0	0	0	0	0	0	0	0
3/23/2024 10:10	56801	BENV_T1	0	6	6	0	0.83	0.83	-0.63	-0.64	1	1	0	600	600	0
3/23/2024 10:10	40201	BEGA_T2	2	2	0	0.9	1.6	0.7	0	0	0	0	0	0	0	0
3/23/2024 10:10	29402	BELT_T1	1	1	0	5	5.3	0.3	0	0	0	0	0	0	0	0
3/23/2024 10:10	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 10:10	45902	AUBU_T1	0	0	0	0	0	0	-0.73	-0.79	1	1	0	600	600	0
3/23/2024 10:11	60201	ATGL_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
3/23/2024 10:11	56801	BENV_T1	0	6	6	0	0.83	0.83	-1.9	-1.93	3	3	0	1800	1800	0
3/23/2024 10:11	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
3/23/2024 10:11	29402	BELT_T1	1	1	0	5	5.3	0.3	0	0	0	0	0	0	0	0
3/23/2024 10:11	56803	BENV_T1	1	1	0	0.5	1.5	1	0	0	0	0	0	0	0	0
3/23/2024 10:11	10801	CHHI_T1	1	1	0	0.1	0	-0.1	-1.44	-1.38	2	2	0	1500	1500	0
3/23/2024 10:12	45901	AUBU_T1	0	0	0	0	0	0	1.5	1.48	0	0	0	0	0	0
3/23/2024 10:12	40201	BEGA_T2	2	2	0	0.9	1.6	0.7	0	0	0	0	0	0	0	0
3/23/2024 10:12	60101	COCA_T1	0	0	0	0	0	0	0.34	0.37	0	0	0	0	0	0
3/23/2024 10:12	17802	GILB_T1	0	0	0	0	0	0	0.03	0.1	0	0	0	0	0	0
3/23/2024 10:12	48302	ORWI_T2	2	2	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
3/23/2024 10:12	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 10:12	29402	BELT_T1	1	1	0	5	5.3	0.3	0	0	0	0	0	0	0	0
3/23/2024 10:13	29402	BELT_T1	1	1	0	5	5.3	0.3	0	0	0	0	0	0	0	0
3/23/2024 10:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/23/2024 10:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 10:14	46801	HEPB_T2	0	0	0	0	0	0	0.59	0.62	0	0	0	0	0	0
3/23/2024 10:14	60101	COCA_T1	0	0	0	0	0	0	0.34	0.37	0	0	0	0	0	0
3/23/2024 10:15	25402	LAHA_T2	0	1	1	0	0	0	-0.71	-0.68	0	0	0	0	0	0
3/23/2024 10:15	13503	MCMI_T2	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
3/23/2024 10:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 10:16	48302	ORWI_T2	2	2	0	0.65	0.55	-0.1	-0.54	-0.53	0	0	0	0	0	0
3/23/2024 10:17	26401	INOR_T1	1	0	-1	0.4	0	-0.4	0.55	0.54	0	0	0	0	0	0
3/23/2024 10:17	46801	HEPB_T2	0	0	0	0	0	0	0.59	0.62	0	0	0	0	0	0
3/23/2024 10:18	46801	HEPB_T2	0	0	0	0	0	0	0.59	0.62	0	0	0	0	0	0
3/23/2024 10:19	65001	NEFF_T2	0	0	0	0	0	0	-1.21	-1.25	1	1	0	1200	1200	0
3/23/2024 10:19	41902	REED_T1	0	0	0	0	0	0	0.15	-0.02	0	0	0	0	0	0
3/23/2024 10:19	67103	SPRI_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
3/23/2024 10:21	42201	SHEN_T2	0	0	0	0	0	0	0	0.02	1	1	0	600	600	0
3/23/2024 10:21	26001	WDAM_T1	0	0	0	0	0	0	-1.16	-1.14	0	0	0	0	0	0
3/23/2024 10:21	26002	WDAM_T1	3	3	0	2.27	1.77	-0.5	0	0	0	0	0	0	0	0
3/23/2024 10:22	67103	SPRI_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/23/2024 10:22	41902	REED_T1	0	0	0	0	0	0	0.15	-0.02	0	0	0	0	0	0
3/23/2024 10:23	66504	SMAN_T2	0	0	0	0	0	0	-3.56	-3.49	2	2	0	2400	2400	0
3/23/2024 10:23	14404	SSLA_T1	1	1	0	2.8	2.7	-0.1	0	0	0	0	0	0	0	0
3/23/2024 10:23	16402	MOPO_T1	0	6	6	0	0.8	0.8	-0.07	-0.04	0	0	0	0	0	0
3/23/2024 10:23	67103	SPRI_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
3/23/2024 10:23	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 10:23	14403	SSLA_T1	0	1	1	0	0	0	1.39	1.48	0	0	0	0	0	0
3/23/2024 10:24	59101	WALK_T2	0	0	0	0	0	0	0.85	0.48	1	1	0	600	600	0
3/23/2024 10:24	45502	DERR_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/23/2024 10:24	57401	SPAN_T1	0	0	0	0	0	0	-1.01	-1.03	1	1	0	600	600	0
3/23/2024 10:24	45501	DERR_T2	0	0	0	0	0	0	-0.27	-0.42	2	2	0	1800	1800	0
3/23/2024 10:25	46203	DANV_T2	0	0	0	0	0	0	-4.34	-4.38	0	0	0	0	0	0
3/23/2024 10:26	56803	BENV_T1	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
3/23/2024 10:26	56801	BENV_T1	0	12	12	0	0.77	0.77	-0.64	-1.23	1	2	1	600	1200	600
3/23/2024 10:27	52402	GRPA_T2	1	2	1	2	2.5	0.5	-1.15	-1.16	0	0	0	0	0	0
3/23/2024 10:27	52403	GRPA_T2	4	14	10	0.78	0.67	-0.11	0	0	0	0	0	0	0	0
3/23/2024 10:27	45502	DERR_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/23/2024 10:27	46206	DANV_T2	0	0	0	0	0	0	4.02	4.1	2	2	0	2400	2400	0
3/23/2024 10:27	40902	JESH_T1	0	0	0	0	0	0	-1.58	-1.57	1	1	0	600	600	0
3/23/2024 10:27	52401	GRPA_T2	1	4	3	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/23/2024 10:27	40901	JESH_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
3/23/2024 10:27	45501	DERR_T2	0	0	0	0	0	0	-0.27	-0.42	2	2	0	1800	1800	0
3/23/2024 10:28	52403	GRPA_T2	4	14	10	0.78	0.67	-0.11	-0.59	-0.62	0	0	0	0	0	0
3/23/2024 10:28	52404	GRPA_T2	0	0	0	0	0	0	-0.08	-0.15	0	0	0	0	0	0
3/23/2024 10:28	52402	GRPA_T2	1	2	1	2	2.5	0.5	0	0	0	0	0	0	0	0
3/23/2024 10:28	52401	GRPA_T2	1	4	3	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/23/2024 10:29	46203	DANV_T2	0	0	0	0	0	0	-2.17	-2.19	0	0	0	0	0	0
3/23/2024 10:30	52404	GRPA_T2	0	0	0	0	0	0	-0.08	-0.15	0	0	0	0	0	0
3/23/2024 10:30	52403	GRPA_T2	14	13	-1	1	0.54	-0.46	0	0	0	0	0	0	0	0
3/23/2024 10:30	52402	GRPA_T2	2	2	0	1.85	2.5	0.65	-1.15	-1.16	0	0	0	0	0	0
3/23/2024 10:30	52401	GRPA_T2	4	1	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
3/23/2024 10:32	57303	MOAL_T2	1	1	0	7.9	7.7	-0.2	0	0	0	0	0	0	0	0
3/23/2024 10:32	57304	MOAL_T2	0	0	0	0	0	0	-0.01	-0.26	0	0	0	0	0	0
3/23/2024 10:34	57304	MOAL_T2	0	0	0	0	0	0	-0.01	-0.26	0	0	0	0	0	0
3/23/2024 10:34	40602	PIGR_T1	1	0	-1	0.2	0	-0.2	-1.81	-1.75	1	1	0	600	600	0
3/23/2024 10:34	65001	NEFF_T2	0	0	0	0	0	0	-1.25	-1.21	1	1	0	1200	1200	0
3/23/2024 10:34	57303	MOAL_T2	1	1	0	7.9	7.7	-0.2	0	0	0	0	0	0	0	0
3/23/2024 10:35	40602	PIGR_T1	1	0	-1	0.2	0	-0.2	-3.62	-3.5	2	2	0	1200	1200	0
3/23/2024 10:36	27502	WEIS_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
3/23/2024 10:36	45402	WBLO_T2	1	1	0	0.1	1	0.9	-1.63	-1.59	1	1	0	900	900	0
3/23/2024 10:36	16302	ALPA_T2	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
3/23/2024 10:37	16302	ALPA_T2	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
3/23/2024 10:38	66505	SMAN_T2	1	0	-1	1.8	0	-1.8	-0.17	-0.19	2	2	0	1100	1100	0
3/23/2024 10:38	56802	BENV_T2	0	0	0	0	0	0	-1.41	-1.39	0	0	0	0	0	0
3/23/2024 10:39	67605	WARW_T1	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
3/23/2024 10:39	16302	ALPA_T2	0	0	0	0	0	0	-0.78	-0.76	0	0	0	0	0	0
3/23/2024 10:39	45402	WBLO_T2	1	1	0	0.1	1	0.9	-1.59	-1.58	1	1	0	900	900	0
3/23/2024 10:41	56801	BENV_T1	6	14	8	0.83	0.81	-0.02	-1.23	-1.27	2	2	0	1200	1200	0
3/23/2024 10:41	56803	BENV_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
3/23/2024 10:41	17802	GILB_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/23/2024 10:41	17805	GILB_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
3/23/2024 10:42	16302	ALPA_T2	0	0	0	0	0	0	-0.78	-0.76	0	0	0	0	0	0
3/23/2024 10:42	56802	BENV_T2	0	0	0	0	0	0	-2.81	-2.77	0	0	0	0	0	0
3/23/2024 10:42	11804	FRAN_T1	0	1	1	0	0	0	0.68	0.74	0	0	0	0	0	0
3/23/2024 10:43	17805	GILB_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
3/23/2024 10:43	17802	GILB_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/23/2024 10:44	56802	BENV_T2	0	0	0	0	0	0	-1.41	-1.39	0	0	0	0	0	0
3/23/2024 10:45	42902	MIDD_T2	2	0	-2	0.8	0	-0.8	-0.56	-0.61	0	0	0	0	0	0
3/23/2024 10:45	42903	MIDD_T2	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
3/23/2024 10:46	42903	MIDD_T2	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
3/23/2024 10:46	48301	ORWI_T1	2	2	0	4.5	4.6	0.1	0	0	0	0	0	0	0	0
3/23/2024 10:46	42902	MIDD_T2	2	0	-2	0.8	0	-0.8	-1.13	-1.22	0	0	0	0	0	0
3/23/2024 10:46	64204	KINZ_T1	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
3/23/2024 10:46	64203	KINZ_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
3/23/2024 10:47	42903	MIDD_T2	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
3/23/2024 10:47	42902	MIDD_T2	2	0	-2	0.8	0	-0.8	-0.56	-0.61	0	0	0	0	0	0
3/23/2024 10:48	42903	MIDD_T2	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
3/23/2024 10:48	42902	MIDD_T2	2	0	-2	0.8	0	-0.8	-0.56	-0.61	0	0	0	0	0	0
3/23/2024 10:49	58401	MORO_T1	0	0	0	0	0	0	-1.1	-1.11	1	1	0	600	600	0
3/23/2024 10:49	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 10:51	59101	WALK_T2	0	0	0	0	0	0	0.95	1.78	2	0	-2	1200	0	-1200
3/23/2024 10:53	10801	CHHI_T1	0	0	0	0	0	0	-1.43	-1.43	2	2	0	1500	1500	0
3/23/2024 10:54	67605	WARW_T1	0	0	0	0	0	0	-1.85	-1.81	0	0	0	0	0	0
3/23/2024 10:55	59101	WALK_T2	0	0	0	0	0	0	0.89	0.91	0	0	0	0	0	0
3/23/2024 10:55	11104	EGYP_T1	0	3	3	0	0.1	0.1	0.31	0.34	0	0	0	0	0	0
3/23/2024 10:56	60201	ATGL_T2	0	0	0	0	0	0	0.17	0.27	0	0	0	0	0	0
3/23/2024 10:56	24902	WHHA_T1	2	0	-2	0.4	0	-0.4	0.44	0.43	0	0	0	0	0	0
3/23/2024 10:57	11104	EGYP_T1	0	3	3	0	0.1	0.1	0.31	0.34	0	0	0	0	0	0
3/23/2024 10:57	57401	SPAN_T1	0	0	0	0	0	0	-1	-0.98	1	1	0	600	600	0
3/23/2024 10:59	40101	HUNT_T2	7	6	-1	0.33	0.5	0.17	-0.56	-0.55	0	0	0	0	0	0
3/23/2024 11:00	40101	HUNT_T2	2	5	3	0.35	0.25	-0.1	-1.11	-1.1	0	0	0	0	0	0
3/23/2024 11:00	45902	AUBU_T1	0	0	0	0	0	0	-0.86	-0.78	1	1	0	600	600	0
3/23/2024 11:01	40101	HUNT_T2	2	5	3	0.35	0.25	-0.1	-0.56	-0.55	0	0	0	0	0	0
3/23/2024 11:02	42903	MIDD_T2	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
3/23/2024 11:02	42302	MOWR_T2	0	0	0	0	0	0	0.42	0.73	0	0	0	0	0	0
3/23/2024 11:02	40101	HUNT_T2	2	5	3	0.35	0.25	-0.1	-0.56	-0.55	0	0	0	0	0	0
3/23/2024 11:02	42902	MIDD_T2	0	0	0	0	0	0	-0.61	-0.59	0	0	0	0	0	0
3/23/2024 11:03	52004	LING_T2	1	1	0	1.6	1.1	-0.5	0	0	0	0	0	0	0	0
3/23/2024 11:03	40101	HUNT_T2	2	5	3	0.35	0.25	-0.1	-0.56	-0.55	0	0	0	0	0	0
3/23/2024 11:04	64101	REFR_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
3/23/2024 11:06	52501	PROG_T1	0	0	0	0	0	0	-0.08	-0.11	1	1	0	300	300	0
3/23/2024 11:07	64101	REFR_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
3/23/2024 11:07	56801	BENV_T1	12	15	3	0.81	0.61	-0.2	-1.27	-1.26	2	2	0	1200	1200	0
3/23/2024 11:07	42302	MOWR_T2	0	0	0	0	0	0	0.42	0.73	0	0	0	0	0	0
3/23/2024 11:08	60803	BUCK_T1	0	0	0	0	0	0	-1.17	-1.15	1	1	0	600	600	0
3/23/2024 11:08	46702	RENO_T1	33	2	-31	0.15	0.15	0	0	0	0	0	0	0	0	0
3/23/2024 11:08	56801	BENV_T1	12	15	3	0.81	0.61	-0.2	-2.53	-2.48	4	4	0	2400	2400	0
3/23/2024 11:08	46701	RENO_T1	61	3	-58	0.34	2.63	2.29	-0.47	-0.33	0	0	0	0	0	0
3/23/2024 11:09	56801	BENV_T1	12	15	3	0.81	0.61	-0.2	-2.53	-2.48	4	4	0	2400	2400	0
3/23/2024 11:10	10801	CHHI_T1	0	0	0	0	0	0	-1.43	-2.02	2	3	1	1500	2100	600
3/23/2024 11:10	24105	EHAZ_T1	26	26	0	1.9	2.58	0.68	0	0	0	0	0	0	0	0
3/23/2024 11:10	24101	EHAZ_T1	66	78	12	1.35	1.42	0.07	0	0	0	0	0	0	0	0
3/23/2024 11:10	45902	AUBU_T1	0	0	0	0	0	0	-0.78	-0.86	1	1	0	600	600	0
3/23/2024 11:10	24102	EHAZ_T1	12	54	42	0.85	1.22	0.37	0.37	0.37	0	0	0	0	0	0
3/23/2024 11:11	56801	BENV_T1	12	15	3	0.81	0.61	-0.2	-3.79	-3.72	6	6	0	3600	3600	0
3/23/2024 11:11	51603	DUKE_T1	0	0	0	0	0	0	-1.24	-1.29	0	0	0	0	0	0
3/23/2024 11:11	60803	BUCK_T1	0	0	0	0	0	0	-1.15	-1.13	1	1	0	600	600	0
3/23/2024 11:12	56801	BENV_T1	12	15	3	0.81	0.61	-0.2	-1.26	-1.24	2	2	0	1200	1200	0
3/23/2024 11:13	51603	DUKE_T1	0	0	0	0	0	0	-1.24	-1.29	0	0	0	0	0	0
3/23/2024 11:14	51603	DUKE_T1	0	0	0	0	0	0	-1.24	-1.29	0	0	0	0	0	0
3/23/2024 11:15	45902	AUBU_T1	0	0	0	0	0	0	-0.78	-0.86	1	1	0	600	600	0
3/23/2024 11:15	10801	CHHI_T1	0	0	0	0	0	0	-1.43	-2.02	2	3	1	1500	2100	600
3/23/2024 11:18	41901	REED_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/23/2024 11:18	41902	REED_T1	3	5	2	0.23	0.2	-0.03	0.01	0.94	0	0	0	0	0	0
3/23/2024 11:20	41902	REED_T1	3	5	2	0.23	0.2	-0.03	0.01	0.94	0	0	0	0	0	0
3/23/2024 11:20	41901	REED_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/23/2024 11:22	41901	REED_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/23/2024 11:22	41902	REED_T1	3	5	2	0.23	0.2	-0.03	0.01	0.94	0	0	0	0	0	0
3/23/2024 11:23	46004	BERW_T2	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
3/23/2024 11:23	60201	ATGL_T2	0	0	0	0	0	0	0.27	0.22	0	0	0	0	0	0
3/23/2024 11:24	56802	BENV_T2	0	0	0	0	0	0	-1.4	-1.39	0	0	0	0	0	0
3/23/2024 11:24	40201	BEGA_T2	5	0	-5	0.72	0	-0.72	0	0	0	0	0	0	0	0
3/23/2024 11:24	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:24	40502	CRES_T2	2	6	4	0.1	0.18	0.08	-2.61	-2.73	0	0	0	0	0	0
3/23/2024 11:25	56801	BENV_T1	9	17	8	0.57	0.66	0.09	-1.24	-1.26	2	2	0	1200	1200	0
3/23/2024 11:25	40502	CRES_T2	2	6	4	0.1	0.18	0.08	-2.61	-2.73	0	0	0	0	0	0
3/23/2024 11:25	40201	BEGA_T2	5	0	-5	0.72	0	-0.72	0	0	0	0	0	0	0	0
3/23/2024 11:25	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:25	56802	BENV_T2	0	0	0	0	0	0	-1.4	-1.39	0	0	0	0	0	0
3/23/2024 11:26	24102	EHAZ_T1	29	59	30	1.34	1.08	-0.26	0.37	0.36	0	0	0	0	0	0
3/23/2024 11:26	24105	EHAZ_T1	26	20	-6	1.97	2.46	0.49	0	0	0	0	0	0	0	0
3/23/2024 11:26	56802	BENV_T2	0	0	0	0	0	0	-2.81	-2.77	0	0	0	0	0	0
3/23/2024 11:26	45902	AUBU_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	600	600	0
3/23/2024 11:26	40502	CRES_T2	2	6	4	0.1	0.18	0.08	-2.61	-2.73	0	0	0	0	0	0
3/23/2024 11:26	24101	EHAZ_T1	66	74	8	1.29	1.61	0.32	0	0	0	0	0	0	0	0
3/23/2024 11:26	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:26	10801	CHHI_T1	0	0	0	0	0	0	-2.02	-2.04	3	3	0	2100	2100	0
3/23/2024 11:27	52403	GRPA_T2	13	5	-8	0.32	0	-0.32	0	0	0	0	0	0	0	0
3/23/2024 11:27	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:27	11104	EGYP_T1	1	2	1	0.3	0	-0.3	0.32	0.34	0	0	0	0	0	0
3/23/2024 11:27	40502	CRES_T2	2	6	4	0.1	0.18	0.08	-1.96	-2.05	0	0	0	0	0	0
3/23/2024 11:27	52402	GRPA_T2	2	1	-1	0.95	2.3	1.35	0	0	0	0	0	0	0	0
3/23/2024 11:27	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:27	52401	GRPA_T2	0	0	0	0	0	0	-0.65	-0.59	0	0	0	0	0	0
3/23/2024 11:27	56802	BENV_T2	0	0	0	0	0	0	-1.4	-1.39	0	0	0	0	0	0
3/23/2024 11:28	46004	BERW_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
3/23/2024 11:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:28	52401	GRPA_T2	0	0	0	0	0	0	-0.65	-0.59	0	0	0	0	0	0
3/23/2024 11:28	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:28	40502	CRES_T2	2	6	4	0.1	0.18	0.08	-1.96	-2.05	0	0	0	0	0	0
3/23/2024 11:28	11104	EGYP_T1	1	2	1	0.3	0	-0.3	0.32	0.34	0	0	0	0	0	0
3/23/2024 11:28	52403	GRPA_T2	13	5	-8	0.32	0	-0.32	0	0	0	0	0	0	0	0
3/23/2024 11:28	52402	GRPA_T2	2	1	-1	0.95	2.3	1.35	0	0	0	0	0	0	0	0
3/23/2024 11:28	60101	COCA_T1	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
3/23/2024 11:29	40101	HUNT_T2	5	5	0	0.46	0	-0.46	-0.44	-0.48	0	0	0	0	0	0
3/23/2024 11:31	10801	CHHI_T1	0	0	0	0	0	0	-2.02	-2.04	3	3	0	2100	2100	0
3/23/2024 11:31	45902	AUBU_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	600	600	0
3/23/2024 11:32	40101	HUNT_T2	4	4	0	0.33	0	-0.33	-0.44	-0.48	0	0	0	0	0	0
3/23/2024 11:34	41901	REED_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/23/2024 11:34	40101	HUNT_T2	4	4	0	0.33	0	-0.33	-0.44	-0.48	0	0	0	0	0	0
3/23/2024 11:34	41902	REED_T1	1	5	4	0.2	0.1	-0.1	0.94	0.97	0	0	0	0	0	0
3/23/2024 11:34	48301	ORWI_T1	2	2	0	4.6	4.7	0.1	0	0	0	0	0	0	0	0
3/23/2024 11:34	55002	NEWP_T1	4	5	1	0.48	0.64	0.16	-0.36	-0.34	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/23/2024 11:35	55002	NEWP_T1	4	5	1	0.48	0.64	0.16	-0.18	-0.17	0	0	0	0	0	0
3/23/2024 11:35	48302	ORWI_T2	2	2	0	0.5	0.6	0.1	-0.43	-0.5	0	0	0	0	0	0
3/23/2024 11:35	41901	REED_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/23/2024 11:35	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
3/23/2024 11:35	41902	REED_T1	1	5	4	0.2	0.1	-0.1	0.94	0.97	0	0	0	0	0	0
3/23/2024 11:36	55002	NEWP_T1	4	5	1	0.48	0.64	0.16	-0.18	-0.17	0	0	0	0	0	0
3/23/2024 11:37	67901	WNHO_T2	0	17	17	0	0.17	0.17	-0.55	-0.44	0	0	0	0	0	0
3/23/2024 11:37	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:38	45902	AUBU_T1	0	0	0	0	0	0	-0.86	-0.88	1	1	0	600	600	0
3/23/2024 11:38	46004	BERW_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
3/23/2024 11:39	46004	BERW_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
3/23/2024 11:39	24902	WHHA_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
3/23/2024 11:39	64101	REFR_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
3/23/2024 11:39	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:39	45902	AUBU_T1	0	0	0	0	0	0	-0.86	-0.88	1	1	0	600	600	0
3/23/2024 11:39	42701	AUGU_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
3/23/2024 11:40	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:40	10801	CHHI_T1	0	0	0	0	0	0	-2.04	-2.03	3	3	0	2100	2100	0
3/23/2024 11:41	10801	CHHI_T1	0	0	0	0	0	0	-2.04	-2.03	3	3	0	2100	2100	0
3/23/2024 11:41	40502	CRES_T2	4	7	3	0.2	0.27	0.07	-2.05	-2.13	0	0	0	0	0	0
3/23/2024 11:41	48302	ORWI_T2	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/23/2024 11:41	17802	GILB_T1	0	0	0	0	0	0	0.12	0.08	0	0	0	0	0	0
3/23/2024 11:41	45902	AUBU_T1	0	0	0	0	0	0	-1.72	-1.75	2	2	0	1200	1200	0
3/23/2024 11:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:42	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:42	10801	CHHI_T1	0	0	0	0	0	0	-2.04	-2.03	3	3	0	2100	2100	0
3/23/2024 11:42	11104	EGYP_T1	1	3	2	0.3	0.2	-0.1	0.34	0.31	0	0	0	0	0	0
3/23/2024 11:42	40502	CRES_T2	4	7	3	0.2	0.27	0.07	-2.73	-2.84	0	0	0	0	0	0
3/23/2024 11:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:42	45901	AUBU_T1	0	0	0	0	0	0	1.64	1.66	0	0	0	0	0	0
3/23/2024 11:42	45902	AUBU_T1	0	0	0	0	0	0	-0.86	-0.88	1	1	0	600	600	0
3/23/2024 11:42	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:43	45902	AUBU_T1	0	0	0	0	0	0	-1.72	-1.75	2	2	0	1200	1200	0
3/23/2024 11:43	40502	CRES_T2	4	7	3	0.2	0.27	0.07	-0.68	-0.71	0	0	0	0	0	0
3/23/2024 11:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:44	17802	GILB_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
3/23/2024 11:44	11104	EGYP_T1	1	3	2	0.3	0.2	-0.1	0.34	0.31	0	0	0	0	0	0
3/23/2024 11:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:44	40502	CRES_T2	4	7	3	0.2	0.27	0.07	-2.05	-2.13	0	0	0	0	0	0
3/23/2024 11:44	40101	HUNT_T2	4	4	0	0.33	0	-0.33	-0.48	-0.44	0	0	0	0	0	0
3/23/2024 11:44	17805	GILB_T2	0	0	0	0	0	0	-0.73	-0.78	0	0	0	0	0	0
3/23/2024 11:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:45	59301	MCAL_T1	2	4	2	0.9	0.68	-0.22	-1.81	-1.79	1	1	0	600	600	0
3/23/2024 11:45	59302	MCAL_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
3/23/2024 11:45	40502	CRES_T2	5	8	3	0.2	0.28	0.08	-3.41	-3.55	0	0	0	0	0	0
3/23/2024 11:45	40101	HUNT_T2	1	11	10	0.2	0.77	0.57	-0.48	-0.44	0	0	0	0	0	0
3/23/2024 11:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:45	11804	FRAN_T1	0	0	0	0	0	0	0.79	0.84	0	0	0	0	0	0
3/23/2024 11:45	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:46	17805	GILB_T2	0	0	0	0	0	0	-0.73	-0.78	0	0	0	0	0	0
3/23/2024 11:46	40502	CRES_T2	5	8	3	0.2	0.28	0.08	-1.36	-1.42	0	0	0	0	0	0
3/23/2024 11:46	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:47	40101	HUNT_T2	1	11	10	0.2	0.77	0.57	-0.96	-0.88	0	0	0	0	0	0
3/23/2024 11:47	10801	CHHI_T1	0	0	0	0	0	0	-2.04	-2.03	3	3	0	2100	2100	0
3/23/2024 11:47	58402	MORO_T1	5	0	-5	0.92	0	-0.92	0	0	0	0	0	0	0	0
3/23/2024 11:47	65001	NEFF_T2	0	0	0	0	0	0	-1.18	-1.22	1	1	0	1200	1200	0
3/23/2024 11:47	45902	AUBU_T1	0	0	0	0	0	0	-0.86	-0.88	1	1	0	600	600	0
3/23/2024 11:47	58401	MORO_T1	0	0	0	0	0	0	-1.09	-1.08	1	1	0	600	600	0
3/23/2024 11:48	65001	NEFF_T2	0	0	0	0	0	0	-1.18	-1.22	1	1	0	1200	1200	0
3/23/2024 11:48	40101	HUNT_T2	1	11	10	0.2	0.77	0.57	-0.96	-0.88	0	0	0	0	0	0
3/23/2024 11:50	48301	ORWI_T1	2	2	0	4.6	4.8	0.2	0	0	0	0	0	0	0	0
3/23/2024 11:50	40101	HUNT_T2	1	11	10	0.2	0.77	0.57	-0.96	-0.88	0	0	0	0	0	0
3/23/2024 11:50	48302	ORWI_T2	2	2	0	0.4	0.8	0.4	-0.5	-0.49	0	0	0	0	0	0
3/23/2024 11:50	40502	CRES_T2	5	8	3	0.2	0.28	0.08	-0.68	-0.71	0	0	0	0	0	0
3/23/2024 11:50	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 11:52	14403	SSLA_T1	0	0	0	0	0	0	1.47	1.59	0	0	0	0	0	0
3/23/2024 11:52	14404	SSLA_T1	2	1	-1	1.3	3.2	1.9	0	0	0	0	0	0	0	0
3/23/2024 11:54	24902	WHHA_T1	0	1	1	0	0	0	0.43	0.46	0	0	0	0	0	0
3/23/2024 11:56	10801	CHHI_T1	0	0	0	0	0	0	-4.05	-2.84	6	4	-2	4200	3000	-1200
3/23/2024 11:56	44302	BEAV_T2	0	76	76	0	0.29	0.29	0	0	0	0	0	0	0	0
3/23/2024 11:56	44301	BEAV_T2	1	2	1	0.8	0.55	-0.25	-0.78	-1.02	1	1	0	600	600	0
3/23/2024 11:57	10801	CHHI_T1	0	0	0	0	0	0	-2.03	-1.42	3	2	-1	2100	1500	-600
3/23/2024 11:59	25501	MADI_T1	1	6	5	0.2	0.1	-0.1	0.46	0.42	0	0	0	0	0	0
3/23/2024 12:00	11804	FRAN_T1	0	0	0	0	0	0	0.84	0.78	0	0	0	0	0	0
3/23/2024 12:00	40101	HUNT_T2	3	14	11	0.9	0.58	-0.32	-0.88	-0.98	0	0	0	0	0	0
3/23/2024 12:01	40101	HUNT_T2	3	14	11	0.9	0.58	-0.32	-0.44	-0.49	0	0	0	0	0	0
3/23/2024 12:02	59301	MCAL_T1	4	4	0	0.58	0.68	0.1	0	0	0	0	0	0	0	0
3/23/2024 12:02	10801	CHHI_T1	0	0	0	0	0	0	-2.03	-1.42	3	2	-1	2100	1500	-600
3/23/2024 12:02	59302	MCAL_T1	1	1	0	0.6	0.5	-0.1	-0.43	-0.42	1	1	0	600	600	0
3/23/2024 12:03	40101	HUNT_T2	3	14	11	0.9	0.58	-0.32	-1.32	-1.47	0	0	0	0	0	0
3/23/2024 12:04	40101	HUNT_T2	3	14	11	0.9	0.58	-0.32	-0.44	-0.49	0	0	0	0	0	0
3/23/2024 12:05	48301	ORWI_T1	2	2	0	4.7	5	0.3	0	0	0	0	0	0	0	0
3/23/2024 12:05	64101	REFR_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
3/23/2024 12:06	48302	ORWI_T2	2	2	0	0.6	1	0.4	-0.49	-0.53	0	0	0	0	0	0
3/23/2024 12:06	40101	HUNT_T2	3	14	11	0.9	0.58	-0.32	-0.44	-0.49	0	0	0	0	0	0
3/23/2024 12:07	64101	REFR_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
3/23/2024 12:07	66302	MCGO_T2	0	0	0	0	0	0	-1.55	-1.56	1	1	0	600	600	0
3/23/2024 12:10	24902	WHHA_T1	0	2	2	0	0.4	0.4	0.46	0.47	0	0	0	0	0	0
3/23/2024 12:10	61303	EARL_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
3/23/2024 12:11	10801	CHHI_T1	0	0	0	0	0	0	-1.42	-1.45	2	2	0	1500	1500	0
3/23/2024 12:11	11804	FRAN_T1	0	0	0	0	0	0	0.78	0.81	0	0	0	0	0	0
3/23/2024 12:11	61303	EARL_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
3/23/2024 12:12	10801	CHHI_T1	0	0	0	0	0	0	-1.42	-1.45	2	2	0	1500	1500	0
3/23/2024 12:13	10801	CHHI_T1	0	0	0	0	0	0	-1.42	-1.45	2	2	0	1500	1500	0
3/23/2024 12:13	61303	EARL_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
3/23/2024 12:16	13905	SEID_T1	0	3	3	0	0.65	0.65	0	0	0	0	0	0	0	0
3/23/2024 12:16	13901	SEID_T1	0	0	0	0	0	0	-1.05	-0.99	1	1	0	1200	1200	0
3/23/2024 12:16	13904	SEID_T1	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/23/2024 12:17	59302	MCAL_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/23/2024 12:17	59301	MCAL_T1	4	2	-2	0.68	1	0.32	-1.8	-1.82	1	1	0	600	600	0
3/23/2024 12:18	64401	LAND_T1	0	0	0	0	0	0	-1.11	-1.11	1	1	0	600	600	0
3/23/2024 12:18	10801	CHHI_T1	0	0	0	0	0	0	-1.42	-1.45	2	2	0	1500	1500	0
3/23/2024 12:19	14403	SSLA_T1	0	0	0	0	0	0	0.78	0.77	0	0	0	0	0	0
3/23/2024 12:19	14404	SSLA_T1	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
3/23/2024 12:19	14401	SSLA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 12:23	14401	SSLA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 12:23	14404	SSLA_T1	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
3/23/2024 12:23	14403	SSLA_T1	0	0	0	0	0	0	0.77	0.74	0	0	0	0	0	0
3/23/2024 12:23	10801	CHHI_T1	0	0	0	0	0	0	-1.45	-1.46	2	2	0	1500	1500	0
3/23/2024 12:27	41801	GOCI_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
3/23/2024 12:29	10801	CHHI_T1	0	0	0	0	0	0	-1.45	-1.46	2	2	0	1500	1500	0
3/23/2024 12:29	41801	GOCI_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
3/23/2024 12:31	41801	GOCI_T2	2	2	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
3/23/2024 12:37	60803	BUCK_T1	4	0	-4	0.15	0	-0.15	-1.18	-1.16	1	1	0	600	600	0
3/23/2024 12:37	41902	REED_T1	0	0	0	0	0	0	0.93	0.95	0	0	0	0	0	0
3/23/2024 12:38	67204	TEHI_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
3/23/2024 12:38	41902	REED_T1	0	0	0	0	0	0	0.95	0.88	0	0	0	0	0	0
3/23/2024 12:39	67204	TEHI_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
3/23/2024 12:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 12:42	40502	CRES_T2	7	7	0	0.21	0.21	0	-1.3	-1.34	0	0	0	0	0	0
3/23/2024 12:43	40502	CRES_T2	7	7	0	0.21	0.21	0	-2.61	-2.69	0	0	0	0	0	0
3/23/2024 12:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 12:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 12:44	40502	CRES_T2	7	7	0	0.21	0.21	0	-3.26	-3.36	0	0	0	0	0	0
3/23/2024 12:45	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 12:45	40101	HUNT_T2	6	6	0	0.77	0.22	-0.55	-1.57	-1.52	0	0	0	0	0	0
3/23/2024 12:45	40502	CRES_T2	7	3	-4	0.21	0.23	0.02	-1.96	-2.02	0	0	0	0	0	0
3/23/2024 12:46	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 12:46	40502	CRES_T2	7	3	-4	0.21	0.23	0.02	-1.3	-1.34	0	0	0	0	0	0
3/23/2024 12:47	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 12:47	63804	HEMP_T1	1	2	1	5.4	2.7	-2.7	0	0	0	0	0	0	0	0
3/23/2024 12:47	40502	CRES_T2	7	3	-4	0.21	0.23	0.02	-0.65	-0.67	0	0	0	0	0	0
3/23/2024 12:47	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/23/2024 12:47	40101	HUNT_T2	6	6	0	0.77	0.22	-0.55	-0.52	-0.51	0	0	0	0	0	0
3/23/2024 12:47	63801	HEMP_T1	0	1	1	0	0.1	0.1	0.46	0.42	0	0	0	0	0	0
3/23/2024 12:48	40101	HUNT_T2	6	6	0	0.77	0.22	-0.55	-0.52	-0.51	0	0	0	0	0	0
3/23/2024 12:54	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
3/23/2024 12:57	41801	GOCI_T2	2	2	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
3/23/2024 12:59	40902	JESH_T1	0	0	0	0	0	0	-1.54	-1.55	1	1	0	600	600	0
3/23/2024 12:59	40901	JESH_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
3/23/2024 12:59	41801	GOCI_T2	2	2	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
3/23/2024 13:03	48301	ORWI_T1	2	2	0	5	5	0	0	0	0	0	0	0	0	0
3/23/2024 13:03	44601	SALE_T2	0	0	0	0	0	0	-0.11	-0.16	0	0	0	0	0	0
3/23/2024 13:04	13302	ORVI_T2	0	0	0	0	0	0	0.07	0.17	0	0	0	0	0	0
3/23/2024 13:04	48302	ORWI_T2	2	2	0	0.85	0.9	0.05	-0.56	-0.49	0	0	0	0	0	0
3/23/2024 13:05	58401	MORO_T1	0	0	0	0	0	0	-1.12	-1.1	1	1	0	600	600	0
3/23/2024 13:07	44601	SALE_T2	0	0	0	0	0	0	-0.11	-0.16	0	0	0	0	0	0
3/23/2024 13:12	45901	AUBU_T1	0	14	14	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 13:12	45902	AUBU_T1	0	0	0	0	0	0	-0.83	-0.96	1	1	0	600	600	0
3/23/2024 13:13	17805	GILB_T2	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
3/23/2024 13:14	17802	GILB_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
3/23/2024 13:15	17805	GILB_T2	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
3/23/2024 13:15	17802	GILB_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
3/23/2024 13:16	17802	GILB_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
3/23/2024 13:29	45702	LIND_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
3/23/2024 13:29	41801	GOCI_T2	2	2	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/23/2024 13:38	65003	NEFF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/23/2024 13:38	65001	NEFF_T2	88	208	120	0.13	0.23	0.1	-1.25	-1.21	1	1	0	1200	1200	0
3/23/2024 13:39	67901	WNHO_T2	140	76	-64	0.41	0.29	-0.12	-0.61	-0.59	0	0	0	0	0	0
3/23/2024 13:40	51603	DUKE_T1	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
3/23/2024 13:41	51603	DUKE_T1	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
3/23/2024 13:44	25501	MADI_T1	4	2	-2	0.4	0.35	-0.05	0.45	0.4	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/23/2024 13:44	51603	DUKE_T1	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
3/23/2024 13:46	40101	HUNT_T2	3	3	0	0.57	0	-0.57	-0.54	-0.55	0	0	0	0	0	0
3/23/2024 13:46	41801	GOCI_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/23/2024 13:49	63204	MGTN_T1	4	8	4	0.1	0.1	0	0	0	0	0	0	0	0	0
3/23/2024 13:49	65001	NEFF_T2	199	213	14	0.2	0.25	0.05	-1.21	-1.33	1	1	0	1200	1200	0
3/23/2024 13:49	65004	NEFF_T2	0	0	0	0	0	0	-0.9	-0.47	1	0	-1	600	0	-600
3/23/2024 13:49	63203	MGTN_T1	22	37	15	0.15	0.18	0.03	0.52	0.52	0	0	0	0	0	0
3/23/2024 13:49	65003	NEFF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/23/2024 13:49	40101	HUNT_T2	3	3	0	0.57	0	-0.57	-0.54	-0.55	0	0	0	0	0	0
3/23/2024 13:51	40101	HUNT_T2	3	3	0	0.57	0	-0.57	-0.54	-0.55	0	0	0	0	0	0
3/23/2024 13:53	14404	SSLA_T1	1	3	2	2.7	2.9	0.2	0	0	0	0	0	0	0	0
3/23/2024 13:53	14403	SSLA_T1	0	0	0	0	0	0	1.49	1.37	0	0	0	0	0	0
3/23/2024 13:55	42701	AUGU_T1	1	1	0	0.3	0.5	0.2	0	0	2	2	0	1800	1800	0
3/23/2024 13:56	42701	AUGU_T1	1	1	0	0.3	0.5	0.2	0	0	2	2	0	1800	1800	0
3/23/2024 13:56	10801	CHHI_T1	0	0	0	0	0	0	-1.45	-1.45	2	2	0	1500	1500	0
3/23/2024 13:58	10801	CHHI_T1	0	0	0	0	0	0	-1.45	-1.45	2	2	0	1500	1500	0
3/23/2024 14:02	40901	JESH_T1	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
3/23/2024 14:02	40902	JESH_T1	0	0	0	0	0	0	-1.39	-1.36	1	1	0	600	600	0
3/23/2024 14:03	59302	MCAL_T1	0	0	0	0	0	0	-0.41	-0.43	1	1	0	600	600	0
3/23/2024 14:03	10801	CHHI_T1	0	0	0	0	0	0	-1.45	-1.45	2	2	0	1500	1500	0
3/23/2024 14:03	59301	MCAL_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/23/2024 14:05	63204	MGTN_T1	5	3	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
3/23/2024 14:05	63203	MGTN_T1	31	42	11	0.15	0.19	0.04	0.52	0.51	0	0	0	0	0	0
3/23/2024 14:05	59101	WALK_T2	0	0	0	0	0	0	1.11	1.15	0	0	0	0	0	0
3/23/2024 14:06	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/23/2024 14:06	27502	WEIS_T2	0	0	0	0	0	0	-0.41	-0.47	0	0	0	0	0	0
3/23/2024 14:06	41902	REED_T1	0	0	0	0	0	0	0.97	0.95	0	0	0	0	0	0
3/23/2024 14:08	56802	BENV_T2	0	0	0	0	0	0	-1.43	-1.48	0	0	0	0	0	0
3/23/2024 14:08	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/23/2024 14:08	10801	CHHI_T1	0	0	0	0	0	0	-1.45	-1.46	2	2	0	1500	1500	0
3/23/2024 14:08	41902	REED_T1	0	0	0	0	0	0	0.95	0.97	0	0	0	0	0	0
3/23/2024 14:09	56801	BENV_T1	13	13	0	0.79	1.22	0.43	-2.83	-2.79	4	4	0	2400	2400	0
3/23/2024 14:09	59101	WALK_T2	0	0	0	0	0	0	1.15	1.14	0	0	0	0	0	0
3/23/2024 14:10	56801	BENV_T1	13	13	0	0.79	1.22	0.43	-3.53	-3.49	5	5	0	3000	3000	0
3/23/2024 14:10	59101	WALK_T2	0	0	0	0	0	0	1.15	1.14	0	0	0	0	0	0
3/23/2024 14:10	60201	ATGL_T2	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
3/23/2024 14:11	42701	AUGU_T1	1	1	0	0.5	0.4	-0.1	0	0	4	4	0	3600	3600	0
3/23/2024 14:11	56801	BENV_T1	13	13	0	0.79	1.22	0.43	-2.12	-2.09	3	3	0	1800	1800	0
3/23/2024 14:11	59101	WALK_T2	0	0	0	0	0	0	2.3	2.29	0	0	0	0	0	0
3/23/2024 14:11	60101	COCA_T1	0	0	0	0	0	0	0.28	0.33	0	0	0	0	0	0
3/23/2024 14:11	60201	ATGL_T2	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
3/23/2024 14:11	61303	EARL_T1	0	0	0	0	0	0	-0.46	-0.52	0	0	0	0	0	0
3/23/2024 14:12	56801	BENV_T1	13	13	0	0.79	1.22	0.43	-0.71	-0.7	1	1	0	600	600	0
3/23/2024 14:12	41801	GOCI_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/23/2024 14:12	52202	DEVO_T2	0	0	0	0	0	0	-1.45	-1.41	0	0	0	0	0	0
3/23/2024 14:12	10801	CHHI_T1	0	0	0	0	0	0	-1.45	-1.46	2	2	0	1500	1500	0
3/23/2024 14:12	60201	ATGL_T2	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
3/23/2024 14:13	60101	COCA_T1	0	0	0	0	0	0	0.28	0.33	0	0	0	0	0	0
3/23/2024 14:13	56801	BENV_T1	13	13	0	0.79	1.22	0.43	-1.41	-1.4	2	2	0	1200	1200	0
3/23/2024 14:13	56802	BENV_T2	0	0	0	0	0	0	-1.43	-1.48	0	0	0	0	0	0
3/23/2024 14:14	53902	HALI_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
3/23/2024 14:14	61303	EARL_T1	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
3/23/2024 14:14	10801	CHHI_T1	0	0	0	0	0	0	-1.45	-1.46	2	2	0	1500	1500	0
3/23/2024 14:14	40101	HUNT_T2	3	1	-2	0.7	0	-0.7	-0.54	-0.55	0	0	0	0	0	0
3/23/2024 14:14	53903	HALI_T2	2	2	0	0.95	1	0.05	-0.71	-0.59	0	0	0	0	0	0
3/23/2024 14:14	63401	HONY_T1	0	0	0	0	0	0	0.59	0.49	0	0	0	0	0	0
3/23/2024 14:14	53901	HALI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/23/2024 14:15	40101	HUNT_T2	0	1	1	0	0	0	-1.07	-1.09	0	0	0	0	0	0
3/23/2024 14:15	60101	COCA_T1	0	0	0	0	0	0	0.28	0.33	0	0	0	0	0	0
3/23/2024 14:16	51003	NHAR_T1	110	172	62	0.31	0.32	0.01	0	0	0	0	0	0	0	0
3/23/2024 14:16	40101	HUNT_T2	0	1	1	0	0	0	-0.54	-0.55	0	0	0	0	0	0
3/23/2024 14:16	51006	NHAR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/23/2024 14:16	41801	GOCI_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
3/23/2024 14:16	25501	MADI_T1	2	5	3	1.15	0.45	-0.7	0.45	0.44	0	0	0	0	0	0
3/23/2024 14:16	51002	NHAR_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
3/23/2024 14:16	51004	NHAR_T1	7	12	5	1.31	0.99	-0.32	-0.42	-0.39	0	0	0	0	0	0
3/23/2024 14:17	40101	HUNT_T2	0	1	1	0	0	0	-1.07	-1.09	0	0	0	0	0	0
3/23/2024 14:20	59101	WALK_T2	0	0	0	0	0	0	1.15	1.14	0	0	0	0	0	0
3/23/2024 14:21	46702	RENO_T1	89	139	50	0.24	0.28	0.04	-0.14	-0.13	0	0	0	0	0	0
3/23/2024 14:21	46701	RENO_T1	156	198	42	0.34	0.38	0.04	0	0	0	0	0	0	0	0
3/23/2024 14:21	59101	WALK_T2	0	0	0	0	0	0	1.15	1.14	0	0	0	0	0	0
3/23/2024 14:22	56802	BENV_T2	0	0	0	0	0	0	-1.43	-1.48	0	0	0	0	0	0
3/23/2024 14:22	40101	HUNT_T2	0	1	1	0	0	0	-0.54	-0.55	0	0	0	0	0	0
3/23/2024 14:23	20403	ASHF_T2	0	0	0	0	0	0	-0.43	-0.49	0	0	0	0	0	0
3/23/2024 14:23	56802	BENV_T2	0	0	0	0	0	0	-1.48	-1.44	0	0	0	0	0	0
3/23/2024 14:23	20402	ASHF_T2	3	5	2	0.1	0.45	0.35	0	0	0	0	0	0	0	0
3/23/2024 14:23	46702	RENO_T1	89	139	50	0.24	0.28	0.04	0	0	0	0	0	0	0	0
3/23/2024 14:23	46701	RENO_T1	156	198	42	0.34	0.38	0.04	-0.23	-0.28	0	0	0	0	0	0
3/23/2024 14:23	67204	TEHI_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
3/23/2024 14:23	60201	ATGL_T2	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
3/23/2024 14:24	45902	AUBU_T1	0	2	2	0	0.2	0.2	-1.09	-1.1	1	1	0	600	600	0
3/23/2024 14:24	56802	BENV_T2	0	0	0	0	0	0	-1.48	-1.44	0	0	0	0	0	0
3/23/2024 14:24	67204	TEHI_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
3/23/2024 14:24	10801	CHHI_T1	0	0	0	0	0	0	-1.46	-1.43	2	2	0	1500	1500	0
3/23/2024 14:24	20402	ASHF_T2	3	5	2	0.1	0.45	0.35	0	0	0	0	0	0	0	0
3/23/2024 14:24	20403	ASHF_T2	0	0	0	0	0	0	-0.43	-0.49	0	0	0	0	0	0
3/23/2024 14:25	60803	BUCK_T1	0	0	0	0	0	0	-1.16	-1.17	1	1	0	600	600	0
3/23/2024 14:25	26002	WDAM_T1	2	2	0	1.45	1.5	0.05	0	0	0	0	0	0	0	0
3/23/2024 14:25	44301	BEAV_T2	8	14	6	0.5	0.52	0.02	0	0	0	0	0	0	0	0
3/23/2024 14:25	44302	BEAV_T2	200	256	56	0.53	0.56	0.03	0.3	0.31	0	0	0	0	0	0
3/23/2024 14:25	26001	WDAM_T1	0	1	1	0	0	0	-0.56	-0.6	0	0	0	0	0	0
3/23/2024 14:26	45902	AUBU_T1	0	2	2	0	0.2	0.2	-1.09	-1.1	1	1	0	600	600	0
3/23/2024 14:27	17802	GILB_T1	0	0	0	0	0	0	0.06	-0.01	0	0	0	0	0	0
3/23/2024 14:27	17805	GILB_T2	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
3/23/2024 14:27	17803	GILB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/23/2024 14:27	42701	AUGU_T1	1	1	0	0.2	0.6	0.4	0	0	4	4	0	3600	3600	0
3/23/2024 14:27	61303	EARL_T1	0	0	0	0	0	0	-0.52	-0.48	0	0	0	0	0	0
3/23/2024 14:28	17804	GILB_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
3/23/2024 14:28	41801	GOCI_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
3/23/2024 14:28	46004	BERW_T2	0	0	0	0	0	0	-0.78	-0.74	0	0	0	0	0	0
3/23/2024 14:28	10801	CHHI_T1	0	0	0	0	0	0	-1.46	-1.43	2	2	0	1500	1500	0
3/23/2024 14:28	60803	BUCK_T1	0	0	0	0	0	0	-1.16	-1.17	1	1	0	600	600	0
3/23/2024 14:28	17803	GILB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/23/2024 14:29	45902	AUBU_T1	0	2	2	0	0.2	0.2	-1.09	-1.1	1	1	0	600	600	0
3/23/2024 14:29	17803	GILB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/23/2024 14:29	17805	GILB_T2	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
3/23/2024 14:29	17802	GILB_T1	0	0	0	0	0	0	0.06	-0.01	0	0	0	0	0	0
3/23/2024 14:29	10801	CHHI_T1	0	0	0	0	0	0	-1.46	-1.43	2	2	0	1500	1500	0
3/23/2024 14:29	61303	EARL_T1	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
3/23/2024 14:30	40101	HUNT_T2	1	2	1	0.3	0	-0.3	-1.09	-1.1	0	0	0	0	0	0
3/23/2024 14:30	63401	HONY_T1	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
3/23/2024 14:30	17802	GILB_T1	0	0	0	0	0	0	0.06	-0.01	0	0	0	0	0	0
3/23/2024 14:30	61303	EARL_T1	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
3/23/2024 14:31	63204	MGTN_T1	0	23	23	0	0.11	0.11	0	0	0	0	0	0	0	0
3/23/2024 14:31	63203	MGTN_T1	37	50	13	0.18	0.23	0.05	0.53	0.53	0	0	0	0	0	0
3/23/2024 14:31	41801	GOCI_T2	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/23/2024 14:31	40101	HUNT_T2	1	2	1	0.3	0	-0.3	-0.55	-0.55	0	0	0	0	0	0
3/23/2024 14:31	64802	MONE_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
3/23/2024 14:31	64801	MONE_T2	1	1	0	0.2	0.3	0.1	-0.26	-0.27	0	0	0	0	0	0
3/23/2024 14:32	40101	HUNT_T2	1	2	1	0.3	0	-0.3	-0.55	-0.55	0	0	0	0	0	0
3/23/2024 14:33	40101	HUNT_T2	1	2	1	0.3	0	-0.3	-0.55	-0.55	0	0	0	0	0	0
3/23/2024 14:33	13302	ORVI_T2	0	0	0	0	0	0	0.12	0.07	0	0	0	0	0	0
3/23/2024 14:34	64303	LINC_T1	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
3/23/2024 14:34	58401	MORO_T1	0	0	0	0	0	0	-1.09	-1.11	1	1	0	600	600	0
3/23/2024 14:34	41902	REED_T1	0	4	4	0	0.3	0.3	0.97	0.99	0	0	0	0	0	0
3/23/2024 14:34	41901	REED_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/23/2024 14:35	14404	SSLA_T1	1	1	0	2	3.7	1.7	0	0	0	0	0	0	0	0
3/23/2024 14:35	14403	SSLA_T1	0	0	0	0	0	0	0.71	0.67	0	0	0	0	0	0
3/23/2024 14:36	46701	RENO_T1	198	38	-160	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
3/23/2024 14:36	59101	WALK_T2	0	0	0	0	0	0	2.29	2.54	0	0	0	0	0	0
3/23/2024 14:36	46702	RENO_T1	139	8	-131	0.28	0.13	-0.15	-0.13	-0.13	0	0	0	0	0	0
3/23/2024 14:37	46702	RENO_T1	139	8	-131	0.28	0.13	-0.15	-0.13	-0.13	0	0	0	0	0	0
3/23/2024 14:37	59101	WALK_T2	0	0	0	0	0	0	1.14	1.27	0	0	0	0	0	0
3/23/2024 14:37	60201	ATGL_T2	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
3/23/2024 14:37	42701	AUGU_T1	1	1	0	0.4	0.6	0.2	0	0	4	4	0	3600	3600	0
3/23/2024 14:37	46701	RENO_T1	198	38	-160	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
3/23/2024 14:38	41901	REED_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/23/2024 14:38	14404	SSLA_T1	1	1	0	2	3.7	1.7	0	0	0	0	0	0	0	0
3/23/2024 14:38	26002	WDAM_T1	2	2	0	1.5	1.5	0	0	0	0	0	0	0	0	0
3/23/2024 14:38	41902	REED_T1	0	4	4	0	0.3	0.3	0.99	1.01	0	0	0	0	0	0
3/23/2024 14:38	14403	SSLA_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
3/23/2024 14:38	40101	HUNT_T2	1	2	1	0.3	0	-0.3	-0.55	-0.49	0	0	0	0	0	0
3/23/2024 14:38	60201	ATGL_T2	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
3/23/2024 14:38	26001	WDAM_T1	0	1	1	0	0	0	-1.2	-1.16	0	0	0	0	0	0
3/23/2024 14:39	46001	BERW_T1	0	0	0	0	0	0	0.66	0.62	0	0	0	0	0	0
3/23/2024 14:39	10801	CHHI_T1	0	0	0	0	0	0	-1.43	-1.48	2	2	0	1500	1500	0
3/23/2024 14:39	44302	BEAV_T2	216	266	50	0.57	0.54	-0.03	0	0	0	0	0	0	0	0
3/23/2024 14:39	44301	BEAV_T2	14	14	0	0.47	0.55	0.08	-1.07	-1.1	1	1	0	600	600	0
3/23/2024 14:40	10801	CHHI_T1	0	0	0	0	0	0	-1.43	-1.48	2	2	0	1500	1500	0
3/23/2024 14:40	45902	AUBU_T1	2	1	-1	0.1	0.3	0.2	-2.19	-2.15	2	2	0	1200	1200	0
3/23/2024 14:40	61303	EARL_T1	0	0	0	0	0	0	-0.24	-0.29	0	0	0	0	0	0
3/23/2024 14:40	44302	BEAV_T2	216	266	50	0.57	0.54	-0.03	0	0	0	0	0	0	0	0
3/23/2024 14:40	44301	BEAV_T2	14	14	0	0.47	0.55	0.08	-1.07	-1.1	1	1	0	600	600	0
3/23/2024 14:40	57401	SPAN_T1	0	0	0	0	0	0	-1.05	-1.09	1	1	0	600	600	0
3/23/2024 14:41	46001	BERW_T1	0	0	0	0	0	0	0.66	0.62	0	0	0	0	0	0
3/23/2024 14:41	45902	AUBU_T1	2	1	-1	0.1	0.3	0.2	-1.1	-1.08	1	1	0	600	600	0
3/23/2024 14:41	26002	WDAM_T1	2	2	0	1.5	1.5	0	0	0	0	0	0	0	0	0
3/23/2024 14:41	60803	BUCK_T1	0	0	0	0	0	0	-1.17	-1.18	1	1	0	600	600	0
3/23/2024 14:41	26001	WDAM_T1	0	1	1	0	0	0	-0.6	-0.58	0	0	0	0	0	0
3/23/2024 14:42	41801	GOCI_T2	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/23/2024 14:42	45902	AUBU_T1	2	1	-1	0.1	0.3	0.2	-2.19	-2.15	2	2	0	1200	1200	0
3/23/2024 14:42	46004	BERW_T2	0	0	0	0	0	0	-0.74	-0.76	0	0	0	0	0	0
3/23/2024 14:42	63801	HEMP_T1	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/23/2024 14:42	63802	HEMP_T1	3	6	3	0.1	0.1	0	0.15	0.11	0	0	0	0	0	0
3/23/2024 14:42	46001	BERW_T1	0	0	0	0	0	0	0.66	0.62	0	0	0	0	0	0
3/23/2024 14:42	63803	HEMP_T1	1	5	4	0.1	0.1	0	0	0	0	0	0	0	0	0
3/23/2024 14:42	63804	HEMP_T1	3	5	2	1.83	1.14	-0.69	0	0	0	0	0	0	0	0
3/23/2024 14:42	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 14:42	61303	EARL_T1	0	0	0	0	0	0	-0.24	-0.29	0	0	0	0	0	0
3/23/2024 14:43	17805	GILB_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
3/23/2024 14:43	45902	AUBU_T1	2	1	-1	0.1	0.3	0.2	-1.1	-1.08	1	1	0	600	600	0
3/23/2024 14:43	61303	EARL_T1	0	0	0	0	0	0	-0.24	-0.29	0	0	0	0	0	0
3/23/2024 14:43	17804	GILB_T2	0	88	88	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 14:44	63802	HEMP_T1	3	6	3	0.1	0.1	0	0.15	0.11	0	0	0	0	0	0
3/23/2024 14:44	17805	GILB_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
3/23/2024 14:44	63804	HEMP_T1	3	5	2	1.83	1.14	-0.69	0	0	0	0	0	0	0	0
3/23/2024 14:44	60803	BUCK_T1	0	0	0	0	0	0	-1.17	-1.18	1	1	0	600	600	0
3/23/2024 14:44	46001	BERW_T1	0	0	0	0	0	0	0.66	0.62	0	0	0	0	0	0
3/23/2024 14:44	63803	HEMP_T1	1	5	4	0.1	0.1	0	0	0	0	0	0	0	0	0
3/23/2024 14:44	17804	GILB_T2	0	88	88	0	0	0	-0.51	-0.55	0	0	0	0	0	0
3/23/2024 14:44	41801	GOCI_T2	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/23/2024 14:44	63801	HEMP_T1	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/23/2024 14:45	61303	EARL_T1	0	0	0	0	0	0	-0.24	-0.29	0	0	0	0	0	0
3/23/2024 14:45	45901	AUBU_T1	3	0	-3	9.87	0	-9.87	0	0	0	0	0	0	0	0
3/23/2024 14:45	45902	AUBU_T1	1	0	-1	0.3	0	-0.3	-1.1	-1.08	1	1	0	600	600	0
3/23/2024 14:45	47001	HUGH_T2	0	0	0	0	0	0	-1.67	-1.76	1	1	0	900	900	0
3/23/2024 14:45	40101	HUNT_T2	0	2	2	0	0.9	0.9	-0.55	-0.49	0	0	0	0	0	0
3/23/2024 14:45	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 14:45	64303	LINC_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
3/23/2024 14:45	17802	GILB_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
3/23/2024 14:46	40101	HUNT_T2	0	2	2	0	0.9	0.9	-1.65	-1.47	0	0	0	0	0	0
3/23/2024 14:47	63204	MGTN_T1	0	23	23	0	0.11	0.11	0	0	0	0	0	0	0	0
3/23/2024 14:47	63801	HEMP_T1	3	2	-1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
3/23/2024 14:47	63203	MGTN_T1	36	49	13	0.17	0.23	0.06	0.53	0.5	0	0	0	0	0	0
3/23/2024 14:47	63802	HEMP_T1	1	10	9	0.1	0.1	0	0.15	0.11	0	0	0	0	0	0
3/23/2024 14:47	63803	HEMP_T1	2	5	3	0.1	0.1	0	0	0	0	0	0	0	0	0
3/23/2024 14:47	63804	HEMP_T1	5	5	0	1.12	1.16	0.04	0	0	0	0	0	0	0	0
3/23/2024 14:48	48301	ORWI_T1	2	2	0	5.6	3.75	-1.85	0	0	0	0	0	0	0	0
3/23/2024 14:48	40101	HUNT_T2	0	2	2	0	0.9	0.9	-0.55	-0.49	0	0	0	0	0	0
3/23/2024 14:48	55002	NEWP_T1	6	6	0	0.87	0.72	-0.15	-0.63	-0.6	0	0	0	0	0	0
3/23/2024 14:49	48302	ORWI_T2	2	2	0	1.4	0.7	-0.7	-0.61	-0.61	0	0	0	0	0	0
3/23/2024 14:49	40101	HUNT_T2	0	2	2	0	0.9	0.9	-0.55	-0.49	0	0	0	0	0	0
3/23/2024 14:49	59402	RFLD_T2	0	0	0	0	0	0	-0.87	-0.85	1	1	0	450	450	0
3/23/2024 14:50	58401	MORO_T1	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
3/23/2024 14:50	55002	NEWP_T1	6	6	0	0.87	0.72	-0.15	-0.42	-0.4	0	0	0	0	0	0
3/23/2024 14:50	53901	HALI_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/23/2024 14:50	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
3/23/2024 14:50	53903	HALI_T2	2	2	0	1	0.6	-0.4	-0.17	-0.21	0	0	0	0	0	0
3/23/2024 14:51	55002	NEWP_T1	6	6	0	0.87	0.72	-0.15	-0.21	-0.2	0	0	0	0	0	0
3/23/2024 14:52	44601	SALE_T2	0	0	0	0	0	0	-0.2	-0.16	0	0	0	0	0	0
3/23/2024 14:52	48301	ORWI_T1	2	2	0	5.6	3.75	-1.85	0	0	0	0	0	0	0	0
3/23/2024 14:52	67901	WNHO_T2	108	116	8	0.28	0.35	0.07	-0.61	-0.51	0	0	0	0	0	0
3/23/2024 14:53	24902	WHHA_T1	1	2	1	0.2	0.2	0	0.46	0.47	0	0	0	0	0	0
3/23/2024 14:53	16302	ALPA_T2	0	2	2	0	0.25	0.25	-0.74	-0.67	0	0	0	0	0	0
3/23/2024 14:53	45602	WOOL_T1	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
3/23/2024 14:53	44601	SALE_T2	0	0	0	0	0	0	-0.2	-0.16	0	0	0	0	0	0
3/23/2024 14:53	27502	WEIS_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
3/23/2024 14:54	40101	HUNT_T2	0	2	2	0	0.9	0.9	-0.49	-0.52	0	0	0	0	0	0
3/23/2024 14:54	10801	CHHI_T1	0	3	3	0	0.13	0.13	-1.48	-1.48	2	2	0	1500	1500	0
3/23/2024 14:54	20402	ASHF_T2	5	8	3	0.4	0.39	-0.01	0	0	0	0	0	0	0	0
3/23/2024 14:54	20401	ASHF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/23/2024 14:54	20403	ASHF_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
3/23/2024 14:54	56802	BENV_T2	0	0	0	0	0	0	-1.47	-1.49	0	0	0	0	0	0
3/23/2024 14:55	48302	ORWI_T2	2	2	0	1.4	0.7	-0.7	0	0	0	0	0	0	0	0
3/23/2024 14:55	46001	BERW_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
3/23/2024 14:56	20401	ASHF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/23/2024 14:56	20403	ASHF_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
3/23/2024 14:56	20402	ASHF_T2	5	8	3	0.4	0.39	-0.01	0	0	0	0	0	0	0	0
3/23/2024 14:56	45902	AUBU_T1	1	0	-1	0.3	0	-0.3	-1.08	-1.08	1	1	0	600	600	0
3/23/2024 14:56	45901	AUBU_T1	3	0	-3	9.87	0	-9.87	1.44	1.49	0	0	0	0	0	0
3/23/2024 14:56	45602	WOOL_T1	0	0	0	0	0	0	1.01	1.01	0	0	0	0	0	0
3/23/2024 14:58	45602	WOOL_T1	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
3/23/2024 14:58	46001	BERW_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
3/23/2024 14:59	45902	AUBU_T1	1	0	-1	0.3	0	-0.3	-1.08	-1.08	1	1	0	600	600	0
3/23/2024 14:59	45901	AUBU_T1	3	0	-3	9.87	0	-9.87	0	0	0	0	0	0	0	0
3/23/2024 14:59	40101	HUNT_T2	0	2	2	0	0.9	0.9	-0.49	-0.52	0	0	0	0	0	0
3/23/2024 15:01	45902	AUBU_T1	0	0	0	0	0	0	-1.08	-1.08	1	1	0	600	600	0
3/23/2024 15:01	45602	WOOL_T1	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
3/23/2024 15:04	40101	HUNT_T2	2	2	0	1.75	0.9	-0.85	-0.49	-0.52	0	0	0	0	0	0
3/23/2024 15:09	15704	TANN_T1	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
3/23/2024 15:09	15703	TANN_T2	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
3/23/2024 15:10	10801	CHHI_T1	0	4	4	0	0.13	0.13	-1.48	-1.5	2	2	0	1500	1500	0
3/23/2024 15:11	45902	AUBU_T1	0	0	0	0	0	0	-1.08	-1.13	1	1	0	600	600	0
3/23/2024 15:12	44302	BEAV_T2	240	240	0	0.5	0.62	0.12	0	0	0	0	0	0	0	0
3/23/2024 15:12	44301	BEAV_T2	14	13	-1	0.48	0.53	0.05	-1.1	-0.46	1	0	-1	600	0	-600
3/23/2024 15:15	10801	CHHI_T1	3	4	1	0.13	0.13	0	-1.48	-1.5	2	2	0	1500	1500	0
3/23/2024 15:17	45902	AUBU_T1	0	0	0	0	0	0	-1.08	-1.13	1	1	0	600	600	0
3/23/2024 15:20	48302	ORWI_T2	2	2	0	0.55	0.6	0.05	-0.6	-0.58	0	0	0	0	0	0
3/23/2024 15:24	59201	THOM_T1	13	11	-2	0.27	0.42	0.15	0	0	0	0	0	0	0	0
3/23/2024 15:24	59202	THOM_T1	109	105	-4	0.2	0.24	0.04	0	0	0	0	0	0	0	0
3/23/2024 15:26	10801	CHHI_T1	3	4	1	0.13	0.13	0	-1.5	-1.49	2	2	0	1500	1500	0
3/23/2024 15:27	45902	AUBU_T1	0	0	0	0	0	0	-1.13	-1.11	1	1	0	600	600	0
3/23/2024 15:31	10801	CHHI_T1	4	0	-4	0.13	0	-0.13	-1.5	-1.49	2	2	0	1500	1500	0
3/23/2024 15:32	45902	AUBU_T1	0	0	0	0	0	0	-1.13	-1.11	1	1	0	600	600	0
3/23/2024 15:36	48302	ORWI_T2	2	2	0	0.6	0.55	-0.05	-0.58	-0.55	0	0	0	0	0	0
3/23/2024 15:41	10801	CHHI_T1	4	0	-4	0.13	0	-0.13	-1.49	-1.5	2	2	0	1500	1500	0
3/23/2024 15:42	56802	BENV_T2	0	0	0	0	0	0	-1.42	-1.43	0	0	0	0	0	0
3/23/2024 15:43	45902	AUBU_T1	0	0	0	0	0	0	-1.11	-1.11	1	1	0	600	600	0
3/23/2024 15:47	10801	CHHI_T1	0	0	0	0	0	0	-1.49	-1.5	2	2	0	1500	1500	0
3/23/2024 15:48	45902	AUBU_T1	0	0	0	0	0	0	-1.11	-1.11	1	1	0	600	600	0
3/23/2024 15:52	60201	ATGL_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
3/23/2024 15:53	40201	BEGA_T2	0	55	55	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 15:54	45902	AUBU_T1	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
3/23/2024 15:55	56802	BENV_T2	0	0	0	0	0	0	-2.87	-2.94	0	0	0	0	0	0
3/23/2024 15:57	40201	BEGA_T2	0	55	55	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 15:57	10801	CHHI_T1	0	0	0	0	0	0	-1.5	-1.49	2	2	0	1500	1500	0
3/23/2024 15:59	45902	AUBU_T1	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
3/23/2024 16:02	10801	CHHI_T1	0	0	0	0	0	0	-1.5	-1.49	2	2	0	1500	1500	0
3/23/2024 16:09	45902	AUBU_T1	0	0	0	0	0	0	-1.1	-1.04	1	1	0	600	600	0
3/23/2024 16:10	46206	DANV_T2	5	5	0	0.38	0.4	0.02	2.2	2.21	1	1	0	1200	1200	0
3/23/2024 16:10	46204	DANV_T2	7	4	-3	0.46	0.2	-0.26	0	0	0	0	0	0	0	0
3/23/2024 16:12	46204	DANV_T2	7	4	-3	0.46	0.2	-0.26	0	0	0	0	0	0	0	0
3/23/2024 16:12	46206	DANV_T2	5	5	0	0.38	0.4	0.02	2.2	2.21	1	1	0	1200	1200	0
3/23/2024 16:14	45902	AUBU_T1	0	0	0	0	0	0	-1.1	-1.04	1	1	0	600	600	0
3/23/2024 16:15	41801	GOCI_T2	3	3	0	2.3	2.1	-0.2	0	0	0	0	0	0	0	0
3/23/2024 16:23	10801	CHHI_T1	0	0	0	0	0	0	-1.49	-1.54	2	2	0	1500	1500	0
3/23/2024 16:23	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 16:25	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 16:28	40502	CRES_T2	8	3	-5	0.16	0.17	0.01	-0.78	-0.8	0	0	0	0	0	0
3/23/2024 16:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 16:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 16:29	40502	CRES_T2	8	3	-5	0.16	0.17	0.01	-0.78	-0.8	0	0	0	0	0	0
3/23/2024 16:29	10801	CHHI_T1	0	0	0	0	0	0	-1.49	-1.54	2	2	0	1500	1500	0
3/23/2024 16:30	40502	CRES_T2	3	3	0	0.17	0.17	0	-0.78	-0.8	0	0	0	0	0	0
3/23/2024 16:30	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 16:39	10801	CHHI_T1	0	0	0	0	0	0	-1.54	-1.56	2	2	0	1500	1500	0
3/23/2024 16:44	10801	CHHI_T1	0	0	0	0	0	0	-1.54	-1.56	2	2	0	1500	1500	0
3/23/2024 16:44	40101	HUNT_T2	9	15	6	0.47	0.3	-0.17	-0.41	-0.49	0	0	0	0	0	0
3/23/2024 16:49	40101	HUNT_T2	2	16	14	0.55	0.22	-0.33	-0.41	-0.49	0	0	0	0	0	0
3/23/2024 16:52	17804	GILB_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
3/23/2024 16:52	17803	GILB_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
3/23/2024 16:55	10801	CHHI_T1	0	0	0	0	0	0	-1.56	-1.55	2	2	0	1500	1500	0
3/23/2024 17:00	40101	HUNT_T2	15	13	-2	0.68	0.22	-0.46	-0.98	-0.98	0	0	0	0	0	0
3/23/2024 17:00	10801	CHHI_T1	0	0	0	0	0	0	-1.56	-1.55	2	2	0	1500	1500	0
3/23/2024 17:02	40101	HUNT_T2	15	13	-2	0.68	0.22	-0.46	-0.49	-0.49	0	0	0	0	0	0
3/23/2024 17:05	48302	ORWI_T2	2	2	0	0.55	0.65	0.1	-0.61	-0.62	0	0	0	0	0	0
3/23/2024 17:05	40101	HUNT_T2	15	13	-2	0.68	0.22	-0.46	-0.49	-0.49	0	0	0	0	0	0
3/23/2024 17:12	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 17:12	40502	CRES_T2	3	11	8	0.17	0.28	0.11	-0.82	-0.82	0	0	0	0	0	0
3/23/2024 18:11	44801	EDAN_T2	2	1	-1	0.55	0.5	-0.05	0.56	0.55	0	0	0	0	0	0
3/23/2024 18:16	40101	HUNT_T2	12	26	14	0.34	0.31	-0.03	-0.49	-0.5	0	0	0	0	0	0
3/23/2024 18:19	40101	HUNT_T2	12	26	14	0.34	0.31	-0.03	-0.49	-0.5	0	0	0	0	0	0
3/23/2024 18:24	16603	PONO_T2	0	0	0	0	0	0	0.34	0.39	1	1	0	1200	1200	0
3/23/2024 18:24	40101	HUNT_T2	12	26	14	0.34	0.31	-0.03	-0.5	-0.49	0	0	0	0	0	0
3/23/2024 19:36	29401	BELT_T1	0	184	184	0	0	0	0	0	3	3	0	2700	2700	0
3/23/2024 19:36	29402	BELT_T1	1	47	46	7.1	6.3	-0.8	0	0	0	0	0	0	0	0
3/23/2024 19:37	29402	BELT_T1	1	47	46	7.1	6.3	-0.8	0	0	0	0	0	0	0	0
3/23/2024 19:37	29401	BELT_T1	0	184	184	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 20:16	12701	MACU_T1	0	0	0	0	0	0	-2.04	-2.06	2	2	0	2400	2400	0
3/23/2024 20:21	46801	HERB_T2	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
3/23/2024 20:21	45902	AUBU_T1	0	0	0	0	0	0	-1.02	-1.02	1	1	0	600	600	0
3/23/2024 20:22	26401	INOR_T1	0	2	2	0	0.1	0.1	0.57	0.6	0	0	0	0	0	0
3/23/2024 20:23	57401	SPAN_T1	0	0	0	0	0	0	-1.37	-1.39	1	1	0	600	600	0
3/23/2024 20:23	24902	WHHA_T1	6	15	9	0.88	0.2	-0.68	0.57	0.49	0	0	0	0	0	0
3/23/2024 20:27	67103	SPRI_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
3/23/2024 20:39	67103	SPRI_T1	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
3/23/2024 20:46	59402	RFLD_T2	0	0	0	0	0	0	-0.86	-0.86	1	1	0	450	450	0
3/23/2024 20:47	42901	MIDD_T2	1	27	26	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/23/2024 20:47	42902	MIDD_T2	14	39	25	0.21	0.25	0.04	-0.61	-0.63	0	0	0	0	0	0
3/23/2024 20:47	42903	MIDD_T2	2	2	0	1.55	1.95	0.4	0	0	0	0	0	0	0	0
3/23/2024 20:49	42901	MIDD_T2	1	27	26	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/23/2024 20:49	42903	MIDD_T2	2	2	0	1.55	1.95	0.4	0	0	0	0	0	0	0	0
3/23/2024 20:49	42902	MIDD_T2	14	39	25	0.21	0.25	0.04	-1.22	-1.25	0	0	0	0	0	0
3/23/2024 20:50	42903	MIDD_T2	2	2	0	1.55	1.95	0.4	0	0	0	0	0	0	0	0
3/23/2024 20:50	42901	MIDD_T2	1	27	26	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/23/2024 20:50	42902	MIDD_T2	14	39	25	0.21	0.25	0.04	-0.61	-0.63	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/23/2024 20:53	42902	MIDD_T2	14	39	25	0.21	0.25	0.04	-0.61	-0.63	0	0	0	0	0	0
3/23/2024 20:53	42901	MIDD_T2	1	27	26	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/23/2024 20:53	28801	LAKE_T1	316	416	100	0.56	0.38	-0.18	0	0	0	0	0	0	0	0
3/23/2024 20:53	42903	MIDD_T2	2	2	0	1.55	1.95	0.4	0	0	0	0	0	0	0	0
3/23/2024 20:53	28805	LAKE_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
3/23/2024 21:03	45902	AUBU_T1	0	0	0	0	0	0	-1.06	-1.09	1	1	0	600	600	0
3/23/2024 21:04	24103	EHAZ_T1	3	1	-2	0.27	0	-0.27	0	0	0	0	0	0	0	0
3/23/2024 21:04	24101	EHAZ_T1	43	45	2	1.2	1.19	-0.01	0	0	0	0	0	0	0	0
3/23/2024 21:04	24102	EHAZ_T1	30	16	-14	0.65	0.52	-0.13	-0.25	-0.24	0	0	0	0	0	0
3/23/2024 21:04	24105	EHAZ_T1	32	28	-4	2.59	3.45	0.86	0	0	0	0	0	0	0	0
3/23/2024 21:05	41801	GOCI_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/23/2024 21:06	52004	LING_T2	1	1	0	1.4	0.9	-0.5	-0.03	0	0	0	0	0	0	0
3/23/2024 21:06	64201	KINZ_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/23/2024 21:06	64204	KINZ_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
3/23/2024 21:06	15702	TANN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/23/2024 21:06	15703	TANN_T2	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
3/23/2024 21:06	27502	WEIS_T2	1	1	0	0.2	0	-0.2	-0.47	-0.46	0	0	0	0	0	0
3/23/2024 21:06	64203	KINZ_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
3/23/2024 21:06	15704	TANN_T1	0	0	0	0	0	0	-1.04	-0.94	0	0	0	0	0	0
3/23/2024 21:07	26002	WDAM_T1	2	2	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
3/23/2024 21:07	26001	WDAM_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
3/23/2024 21:07	46206	DANV_T2	3	1	-2	0.7	0.2	-0.5	2.17	2.16	1	1	0	1200	1200	0
3/23/2024 21:07	46204	DANV_T2	7	12	5	0.26	0.27	0.01	0	0	0	0	0	0	0	0
3/23/2024 21:07	40101	HUNT_T2	22	26	4	0.47	0.41	-0.06	-0.4	-0.48	0	0	0	0	0	0
3/23/2024 21:07	45501	DERR_T2	0	0	0	0	0	0	-0.32	-0.33	2	2	0	1800	1800	0
3/23/2024 21:08	17802	GILB_T1	0	0	0	0	0	0	0.08	0.02	0	0	0	0	0	0
3/23/2024 21:08	48302	ORWI_T2	2	2	0	0.8	1.05	0.25	0	0	0	0	0	0	0	0
3/23/2024 21:08	45501	DERR_T2	0	0	0	0	0	0	-0.32	-0.33	2	2	0	1800	1800	0
3/23/2024 21:08	61303	EARL_T1	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
3/23/2024 21:09	13503	MCMI_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
3/23/2024 21:09	41602	CLEV_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/23/2024 21:09	46001	BERW_T1	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
3/23/2024 21:09	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 21:09	25402	LAHA_T2	6	337	331	0.67	0.87	0.2	-0.62	-0.56	0	0	0	0	0	0
3/23/2024 21:09	16402	MOPO_T1	2	6	4	1.1	0.3	-0.8	-0.05	-0.05	0	0	0	0	0	0
3/23/2024 21:11	46001	BERW_T1	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
3/23/2024 21:11	46206	DANV_T2	3	1	-2	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
3/23/2024 21:11	46204	DANV_T2	7	12	5	0.26	0.27	0.01	0	0	0	0	0	0	0	0
3/23/2024 21:11	17805	GILB_T2	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
3/23/2024 21:11	46203	DANV_T2	0	0	0	0	0	0	-2.09	-2.09	0	0	0	0	0	0
3/23/2024 21:11	11104	EGYP_T1	1	0	-1	0.5	0	-0.5	0.33	0.37	0	0	0	0	0	0
3/23/2024 21:11	16302	ALPA_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
3/23/2024 21:12	10801	CHHI_T1	0	0	0	0	0	0	-1.43	-1.42	2	2	0	1500	1500	0
3/23/2024 21:12	46004	BERW_T2	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
3/23/2024 21:12	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 21:13	29402	BELT_T1	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
3/23/2024 21:13	17805	GILB_T2	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
3/23/2024 21:13	67103	SPRI_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
3/23/2024 21:13	45501	DERR_T2	0	0	0	0	0	0	-0.33	-0.31	2	2	0	1800	1800	0
3/23/2024 21:13	26001	WDAM_T1	0	0	0	0	0	0	-1.22	-1.18	0	0	0	0	0	0
3/23/2024 21:13	26002	WDAM_T1	2	2	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
3/23/2024 21:13	47001	HUGH_T2	0	0	0	0	0	0	-1.63	-1.69	1	1	0	900	900	0
3/23/2024 21:14	20402	ASHF_T2	5	2	-3	0.24	0.15	-0.09	0	0	0	0	0	0	0	0
3/23/2024 21:14	45901	AUBU_T1	0	0	0	0	0	0	1.46	1.44	0	0	0	0	0	0
3/23/2024 21:14	41602	CLEV_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/23/2024 21:14	20403	ASHF_T2	0	0	0	0	0	0	-2.8	-2.75	0	0	0	0	0	0
3/23/2024 21:14	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 21:14	65901	SAKR_T2	1	1	0	7.6	7.4	-0.2	-1.33	-1.27	1	1	0	900	900	0
3/23/2024 21:14	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 21:15	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 21:15	28801	LAKE_T1	289	225	-64	0.21	0.52	0.31	0	0	0	0	0	0	0	0
3/23/2024 21:15	11104	EGYP_T1	0	0	0	0	0	0	0.33	0.37	0	0	0	0	0	0
3/23/2024 21:15	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 21:15	45902	AUBU_T1	0	0	0	0	0	0	-2.17	-2.33	2	2	0	1200	1200	0
3/23/2024 21:15	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 21:15	40101	HUNT_T2	24	42	18	0.53	0.48	-0.05	-0.96	-0.97	0	0	0	0	0	0
3/23/2024 21:15	28805	LAKE_T1	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
3/23/2024 21:16	40101	HUNT_T2	24	42	18	0.53	0.48	-0.05	-0.48	-0.49	0	0	0	0	0	0
3/23/2024 21:16	42701	AUGU_T1	0	1	1	0	0.1	0.1	0	0	2	2	0	1800	1800	0
3/23/2024 21:16	44601	SALE_T2	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
3/23/2024 21:17	40101	HUNT_T2	24	42	18	0.53	0.48	-0.05	-0.48	-0.49	0	0	0	0	0	0
3/23/2024 21:17	46004	BERW_T2	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
3/23/2024 21:17	45902	AUBU_T1	0	0	0	0	0	0	-1.09	-1.16	1	1	0	600	600	0
3/23/2024 21:17	48302	ORWI_T2	2	2	0	0.85	1.05	0.2	-0.58	-0.58	0	0	0	0	0	0
3/23/2024 21:17	17802	GILB_T1	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
3/23/2024 21:17	44601	SALE_T2	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
3/23/2024 21:17	16302	ALPA_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
3/23/2024 21:17	42201	SHEN_T2	0	0	0	0	0	0	-0.08	-0.09	1	1	0	600	600	0
3/23/2024 21:17	46001	BERW_T1	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
3/23/2024 21:18	46206	DANV_T2	1	3	2	1	0.2	-0.8	2.16	2.15	1	1	0	1200	1200	0
3/23/2024 21:18	67204	TEHI_T2	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
3/23/2024 21:18	40101	HUNT_T2	24	42	18	0.53	0.48	-0.05	-0.48	-0.49	0	0	0	0	0	0
3/23/2024 21:18	51002	NHAR_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
3/23/2024 21:18	51004	NHAR_T1	12	12	0	0.87	0.85	-0.02	-0.41	-0.42	0	0	0	0	0	0
3/23/2024 21:18	46204	DANV_T2	8	23	15	0.25	0.26	0.01	0	0	0	0	0	0	0	0
3/23/2024 21:18	51003	NHAR_T1	6	11	5	0.27	0.21	-0.06	0	0	0	0	0	0	0	0
3/23/2024 21:18	46001	BERW_T1	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
3/23/2024 21:18	45902	AUBU_T1	0	0	0	0	0	0	-1.09	-1.16	1	1	0	600	600	0
3/23/2024 21:18	25501	MADI_T1	1	0	-1	0.9	0	-0.9	0.43	0.43	0	0	0	0	0	0
3/23/2024 21:19	41801	GOCI_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/23/2024 21:19	67604	WARW_T1	0	0	0	0	0	0	-1.07	-1.15	0	0	0	0	0	0
3/23/2024 21:19	66505	SMAN_T2	3	2	-1	0.33	0.2	-0.13	-0.6	-0.6	2	2	0	1100	1100	0
3/23/2024 21:20	52501	PROG_T1	0	0	0	0	0	0	0.04	0.06	1	1	0	300	300	0
3/23/2024 21:20	43201	MVIL_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
3/23/2024 21:20	41902	REED_T1	4	4	0	0.2	0	-0.2	0.97	0.93	0	0	0	0	0	0
3/23/2024 21:20	40602	PIGR_T1	0	0	0	0	0	0	-2.39	-2.43	2	2	0	1200	1200	0
3/23/2024 21:20	41901	REED_T1	1	3	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
3/23/2024 21:20	46204	DANV_T2	8	23	15	0.25	0.26	0.01	0	0	0	0	0	0	0	0
3/23/2024 21:20	48301	ORWI_T1	2	2	0	5.55	5.8	0.25	0	0	0	0	0	0	0	0
3/23/2024 21:20	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 21:20	56802	BENV_T2	0	0	0	0	0	0	-1.41	-1.42	0	0	0	0	0	0
3/23/2024 21:20	46206	DANV_T2	1	3	2	1	0.2	-0.8	4.33	4.31	2	2	0	2400	2400	0
3/23/2024 21:21	60201	ATGL_T2	0	0	0	0	0	0	-0.01	-0.05	1	1	0	300	300	0
3/23/2024 21:21	60101	COCA_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
3/23/2024 21:21	63203	MGTN_T1	0	15	15	0	0.14	0.14	0.43	0.43	0	0	0	0	0	0
3/23/2024 21:21	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 21:21	61303	EARL_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
3/23/2024 21:21	65001	NEFF_T2	19	98	79	0.13	0.15	0.02	-1.4	-1.38	1	1	0	1200	1200	0
3/23/2024 21:22	41902	REED_T1	4	4	0	0.2	0	-0.2	0.97	0.93	0	0	0	0	0	0
3/23/2024 21:22	42701	AUGU_T1	0	1	1	0	0.1	0.1	0	0	2	2	0	1800	1800	0
3/23/2024 21:22	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 21:22	41801	GOCI_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/23/2024 21:22	48301	ORWI_T1	2	2	0	5.55	5.8	0.25	0	0	0	0	0	0	0	0
3/23/2024 21:22	41901	REED_T1	1	3	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
3/23/2024 21:22	16302	ALPA_T2	0	0	0	0	0	0	-1.46	-1.46	0	0	0	0	0	0
3/23/2024 21:23	67605	WARW_T1	0	0	0	0	0	0	-1.07	-1.15	0	0	0	0	0	0
3/23/2024 21:23	67204	TEHI_T2	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
3/23/2024 21:23	40901	JESH_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/23/2024 21:23	48302	ORWI_T2	2	2	0	0.85	1.05	0.2	-0.58	-0.58	0	0	0	0	0	0
3/23/2024 21:23	46204	DANV_T2	8	23	15	0.25	0.26	0.01	0	0	0	0	0	0	0	0
3/23/2024 21:23	40902	JESH_T1	0	0	0	0	0	0	-1.41	-1.38	1	1	0	600	600	0
3/23/2024 21:23	40502	CRES_T2	6	13	7	0.15	0.32	0.17	-0.71	-0.75	0	0	0	0	0	0
3/23/2024 21:23	45402	WBLO_T2	0	0	0	0	0	0	-1.56	-1.59	1	1	0	900	900	0
3/23/2024 21:23	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 21:23	41901	REED_T1	1	3	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
3/23/2024 21:23	41902	REED_T1	4	4	0	0.2	0	-0.2	0.93	0.93	0	0	0	0	0	0
3/23/2024 21:23	46206	DANV_T2	1	3	2	1	0.2	-0.8	2.16	2.15	1	1	0	1200	1200	0
3/23/2024 21:24	46206	DANV_T2	1	3	2	1	0.2	-0.8	0	0	0	0	0	0	0	0
3/23/2024 21:24	46204	DANV_T2	8	23	15	0.25	0.26	0.01	0	0	0	0	0	0	0	0
3/23/2024 21:24	66505	SMAN_T2	3	2	-1	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
3/23/2024 21:24	66504	SMAN_T2	0	0	0	0	0	0	-1.06	-1.1	0	0	0	0	0	0
3/23/2024 21:24	61303	EARL_T1	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
3/23/2024 21:24	63401	HONY_T1	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
3/23/2024 21:24	46801	HEPB_T2	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
3/23/2024 21:24	46203	DANV_T2	0	0	0	0	0	0	-2.09	-2.1	0	0	0	0	0	0
3/23/2024 21:24	16302	ALPA_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
3/23/2024 21:25	60803	BUCK_T1	0	0	0	0	0	0	-1.16	-1.15	1	1	0	600	600	0
3/23/2024 21:25	57401	SPAN_T1	0	0	0	0	0	0	-1.37	-1.35	1	1	0	600	600	0
3/23/2024 21:25	55002	NEWP_T1	4	4	0	0.53	0.65	0.12	-0.18	-0.21	0	0	0	0	0	0
3/23/2024 21:25	56801	BENV_T1	6	6	0	0.57	0.85	0.28	-0.62	-0.61	1	1	0	600	600	0
3/23/2024 21:25	40101	HUNT_T2	24	42	18	0.53	0.48	-0.05	-0.49	-0.52	0	0	0	0	0	0
3/23/2024 21:25	40602	PIGR_T1	0	0	0	0	0	0	-1.22	-1.24	1	1	0	600	600	0
3/23/2024 21:25	45402	WBLO_T2	0	0	0	0	0	0	-1.59	-1.58	1	1	0	900	900	0
3/23/2024 21:25	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 21:26	56801	BENV_T1	6	6	0	0.57	0.85	0.28	-0.62	-0.61	1	1	0	600	600	0
3/23/2024 21:26	52401	GRPA_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
3/23/2024 21:26	56802	BENV_T2	0	0	0	0	0	0	-1.42	-1.45	0	0	0	0	0	0
3/23/2024 21:26	52404	GRPA_T2	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0
3/23/2024 21:26	60101	COCA_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
3/23/2024 21:26	46206	DANV_T2	1	3	2	1	0.2	-0.8	0	0	0	0	0	0	0	0
3/23/2024 21:26	45902	AUBU_T1	0	0	0	0	0	0	-1.16	-1.22	1	1	0	600	600	0
3/23/2024 21:26	52402	GRPA_T2	1	1	0	2.1	1.8	-0.3	0	0	0	0	0	0	0	0
3/23/2024 21:26	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 21:26	46004	BERW_T2	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
3/23/2024 21:26	59101	WALK_T2	0	0	0	0	0	0	0.81	0.8	4	4	0	2400	2400	0
3/23/2024 21:26	46204	DANV_T2	8	23	15	0.25	0.26	0.01	0	0	0	0	0	0	0	0
3/23/2024 21:26	46203	DANV_T2	0	0	0	0	0	0	-2.09	-2.1	0	0	0	0	0	0
3/23/2024 21:27	42902	MIDD_T2	37	29	-8	0.25	0.24	-0.01	-0.6	-0.62	0	0	0	0	0	0
3/23/2024 21:27	42903	MIDD_T2	2	2	0	1.95	1.8	-0.15	0	0	0	0	0	0	0	0
3/23/2024 21:27	56801	BENV_T1	6	6	0	0.57	0.85	0.28	-1.24	-1.22	2	2	0	1200	1200	0
3/23/2024 21:27	61303	EARL_T1	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
3/23/2024 21:27	14404	SSLA_T1	1	1	0	3.5	3.5	0	0	0	0	0	0	0	0	0
3/23/2024 21:27	40502	CRES_T2	6	13	7	0.15	0.32	0.17	-0.71	-0.75	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/23/2024 21:27	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 21:27	55002	NEWP_T1	4	4	0	0.53	0.65	0.12	-0.36	-0.42	0	0	0	0	0	0
3/23/2024 21:27	14403	SSLA_T1	0	0	0	0	0	0	0.81	0.85	0	0	0	0	0	0
3/23/2024 21:27	42901	MIDD_T2	27	19	-8	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
3/23/2024 21:28	60201	ATGL_T2	0	0	0	0	0	0	-0.05	-0.11	1	1	0	300	300	0
3/23/2024 21:28	13302	ORVI_T2	0	0	0	0	0	0	1.43	1.42	0	0	0	0	0	0
3/23/2024 21:28	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
3/23/2024 21:28	14404	SSLA_T1	1	1	0	3.5	3.5	0	0	0	0	0	0	0	0	0
3/23/2024 21:28	44302	BEAV_T2	60	71	11	0.31	0.32	0.01	0	0	0	0	0	0	0	0
3/23/2024 21:28	63802	HEMP_T1	0	0	0	0	0	0	0.1	0.16	0	0	0	0	0	0
3/23/2024 21:28	51603	DUKE_T1	0	0	0	0	0	0	-3.63	-3.72	0	0	0	0	0	0
3/23/2024 21:28	57304	MOAL_T2	0	1	1	0	0.1	0.1	-0.19	-0.25	0	0	0	0	0	0
3/23/2024 21:28	46702	RENO_T1	0	7	7	0	0.14	0.14	0	0	0	0	0	0	0	0
3/23/2024 21:28	14403	SSLA_T1	0	0	0	0	0	0	0.81	0.85	0	0	0	0	0	0
3/23/2024 21:28	44301	BEAV_T2	2	2	0	0.35	0.5	0.15	-0.46	-0.45	0	0	0	0	0	0
3/23/2024 21:28	46701	RENO_T1	2	38	36	4.1	0.37	-3.73	-0.3	-0.33	0	0	0	0	0	0
3/23/2024 21:28	57303	MOAL_T2	1	1	0	7.9	7.7	-0.2	0	0	0	0	0	0	0	0
3/23/2024 21:28	56802	BENV_T2	0	0	0	0	0	0	-2.85	-2.9	0	0	0	0	0	0
3/23/2024 21:29	53903	HALI_T2	2	2	0	0.1	0.3	0.2	-0.24	-0.23	0	0	0	0	0	0
3/23/2024 21:29	60101	COCA_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
3/23/2024 21:29	59301	MCAL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/23/2024 21:29	59302	MCAL_T1	0	0	0	0	0	0	-0.78	-0.77	1	1	0	600	600	0
3/23/2024 21:29	55002	NEWP_T1	4	4	0	0.53	0.65	0.12	-0.36	-0.42	0	0	0	0	0	0
3/23/2024 21:29	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
3/23/2024 21:29	53901	HALI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/23/2024 21:29	53902	HALI_T2	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
3/23/2024 21:29	64303	LINC_T1	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
3/23/2024 21:29	63802	HEMP_T1	0	0	0	0	0	0	0.1	0.16	0	0	0	0	0	0
3/23/2024 21:29	64401	LAND_T1	0	0	0	0	0	0	-1.13	-1.1	1	1	0	600	600	0
3/23/2024 21:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 21:29	40502	CRES_T2	6	13	7	0.15	0.32	0.17	-0.71	-0.75	0	0	0	0	0	0
3/23/2024 21:29	45602	WOOL_T1	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
3/23/2024 21:30	56801	BENV_T1	6	6	0	0.58	1.18	0.6	-0.62	-0.61	1	1	0	600	600	0
3/23/2024 21:30	53901	HALI_T2	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
3/23/2024 21:30	11804	FRAN_T1	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
3/23/2024 21:30	67605	WARW_T1	0	0	0	0	0	0	-1.15	-0.94	0	0	0	0	0	0
3/23/2024 21:30	53903	HALI_T2	2	2	0	0.3	0.3	0	-0.24	-0.23	0	0	0	0	0	0
3/23/2024 21:30	40101	HUNT_T2	17	42	25	0.46	0.37	-0.09	-0.49	-0.52	0	0	0	0	0	0
3/23/2024 21:30	53902	HALI_T2	1	1	0	4.8	4.9	0.1	0	0	0	0	0	0	0	0
3/23/2024 21:30	57401	SPAN_T1	0	0	0	0	0	0	-1.37	-1.35	1	1	0	600	600	0
3/23/2024 21:30	65901	SAKR_T2	1	1	0	7.4	8.1	0.7	-1.27	-1.29	1	1	0	900	900	0
3/23/2024 21:30	63802	HEMP_T1	0	0	0	0	0	0	0.1	0.16	0	0	0	0	0	0
3/23/2024 21:30	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
3/23/2024 21:31	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 21:31	56801	BENV_T1	6	6	0	0.58	1.18	0.6	-0.62	-0.61	1	1	0	600	600	0
3/23/2024 21:31	64801	MONE_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
3/23/2024 21:31	52402	GRPA_T2	1	1	0	1.8	1.8	0	-1.05	-1.07	0	0	0	0	0	0
3/23/2024 21:31	57303	MOAL_T2	1	1	0	8.1	7.7	-0.4	0	0	0	0	0	0	0	0
3/23/2024 21:31	57304	MOAL_T2	1	1	0	0.1	0	-0.1	-0.19	-0.25	0	0	0	0	0	0
3/23/2024 21:31	67901	WNHO_T2	44	60	16	0.23	0.27	0.04	-0.63	-0.6	0	0	0	0	0	0
3/23/2024 21:31	52401	GRPA_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
3/23/2024 21:32	46702	RENO_T1	1	8	7	0.1	0.14	0.04	-0.12	-0.14	0	0	0	0	0	0
3/23/2024 21:32	56801	BENV_T1	6	6	0	0.58	1.18	0.6	-0.62	-0.61	1	1	0	600	600	0
3/23/2024 21:32	46701	RENO_T1	5	40	35	1.74	0.36	-1.38	0	0	0	0	0	0	0	0
3/23/2024 21:32	60201	ATGL_T2	0	0	0	0	0	0	-0.05	-0.11	1	1	0	300	300	0
3/23/2024 21:32	55002	NEWP_T1	4	4	0	0.6	0.8	0.2	-0.18	-0.21	0	0	0	0	0	0
3/23/2024 21:32	59101	WALK_T2	0	0	0	0	0	0	0.4	0.4	2	2	0	1200	1200	0
3/23/2024 21:32	45702	LIND_T2	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
3/23/2024 21:33	56802	BENV_T2	0	0	0	0	0	0	-1.42	-1.45	0	0	0	0	0	0
3/23/2024 21:33	67402	WAKE_T2	0	0	0	0	0	0	-0.43	-0.44	1	1	0	600	600	0
3/23/2024 21:33	56801	BENV_T1	6	6	0	0.58	1.18	0.6	-0.62	-0.61	1	1	0	600	600	0
3/23/2024 21:34	40502	CRES_T2	10	13	3	0.25	0.32	0.07	-0.71	-0.75	0	0	0	0	0	0
3/23/2024 21:34	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 21:34	52402	GRPA_T2	1	1	0	1.8	1.8	0	-1.05	-1.07	0	0	0	0	0	0
3/23/2024 21:34	58401	MORO_T1	0	0	0	0	0	0	-1.08	-1.12	1	1	0	600	600	0
3/23/2024 21:34	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 21:35	52402	GRPA_T2	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
3/23/2024 21:35	44302	BEAV_T2	64	80	16	0.31	0.33	0.02	0	0	0	0	0	0	0	0
3/23/2024 21:35	53903	HALI_T2	2	2	0	0.3	0.3	0	-0.24	-0.23	0	0	0	0	0	0
3/23/2024 21:35	52403	GRPA_T2	0	1	1	0	0	0	-0.64	-0.64	0	0	0	0	0	0
3/23/2024 21:35	44301	BEAV_T2	2	2	0	0.35	0.5	0.15	-0.46	-0.45	0	0	0	0	0	0
3/23/2024 21:35	53902	HALI_T2	1	1	0	4.8	4.9	0.1	0	0	0	0	0	0	0	0
3/23/2024 21:35	56801	BENV_T1	6	6	0	0.58	1.18	0.6	-1.24	-1.22	2	2	0	1200	1200	0
3/23/2024 21:35	53901	HALI_T2	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
3/23/2024 21:36	59101	WALK_T2	0	0	0	0	0	0	0.81	0.8	4	4	0	2400	2400	0
3/23/2024 21:36	56801	BENV_T1	6	6	0	0.58	1.18	0.6	-3.11	-3.04	5	5	0	3000	3000	0
3/23/2024 21:36	67402	WAKE_T2	0	0	0	0	0	0	-0.43	-0.44	1	1	0	600	600	0
3/23/2024 21:37	46702	RENO_T1	1	8	7	0.1	0.14	0.04	-0.12	-0.14	0	0	0	0	0	0
3/23/2024 21:37	46701	RENO_T1	5	40	35	1.74	0.36	-1.38	0	0	0	0	0	0	0	0
3/23/2024 21:39	53902	HALI_T2	1	1	0	4.8	4.9	0.1	0	0	0	0	0	0	0	0
3/23/2024 21:39	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/23/2024 21:39	53903	HALI_T2	2	2	0	0.3	0.3	0	-0.23	-0.24	0	0	0	0	0	0
3/23/2024 21:39	53901	HALI_T2	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
3/23/2024 21:39	29402	BELT_T1	1	1	0	5.9	6.9	1	0	0	0	0	0	0	0	0
3/23/2024 21:40	52404	GRPA_T2	0	0	0	0	0	0	-0.17	-0.13	0	0	0	0	0	0
3/23/2024 21:40	52402	GRPA_T2	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
3/23/2024 21:40	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/23/2024 21:41	65001	NEFF_T2	48	159	111	0.14	0.18	0.04	-1.41	-1.43	1	1	0	1200	1200	0
3/23/2024 21:44	29402	BELT_T1	1	1	0	5.9	6.9	1	0	0	0	0	0	0	0	0
3/23/2024 21:44	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
3/23/2024 21:45	29402	BELT_T1	1	1	0	6.5	7	0.5	0	0	0	0	0	0	0	0
3/23/2024 21:45	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/23/2024 21:56	29402	BELT_T1	1	1	0	6.5	7	0.5	0	0	0	0	0	0	0	0
3/23/2024 21:56	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/23/2024 22:00	57401	SPAN_T1	0	0	0	0	0	0	-1.34	-1.64	1	1	0	600	600	0
3/23/2024 22:30	57401	SPAN_T1	0	0	0	0	0	0	-1.65	-1.38	1	1	0	600	600	0
3/23/2024 22:52	46801	HEPB_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
3/24/2024 1:08	60803	BUCK_T1	0	0	0	0	0	0	-1.15	-1.15	1	1	0	600	600	0
3/24/2024 2:08	16603	PONO_T2	0	0	0	0	0	0	0.06	0.03	1	1	0	1200	1200	0
3/24/2024 7:53	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/24/2024 7:53	29402	BELT_T1	2	2	0	5.45	5.3	-0.15	0	0	0	0	0	0	0	0
3/24/2024 7:54	45901	AUBU_T1	0	0	0	0	0	0	1.05	1.02	0	0	0	0	0	0
3/24/2024 7:55	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
3/24/2024 7:55	29402	BELT_T1	2	2	0	5.45	5.3	-0.15	0	0	0	0	0	0	0	0
3/24/2024 7:58	40101	HUNT_T2	35	32	-3	0.49	0.49	0	-0.5	-0.5	0	0	0	0	0	0
3/24/2024 8:04	41901	REED_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/24/2024 8:04	41902	REED_T1	12	17	5	0.37	0.32	-0.05	0.97	0.98	0	0	0	0	0	0
3/24/2024 8:06	41901	REED_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/24/2024 8:06	41902	REED_T1	12	17	5	0.37	0.32	-0.05	0.97	0.98	0	0	0	0	0	0
3/24/2024 8:09	29402	BELT_T1	2	1	-1	2.7	4.9	2.2	0	0	0	0	0	0	0	0
3/24/2024 8:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/24/2024 8:10	29402	BELT_T1	2	1	-1	2.7	4.9	2.2	0	0	0	0	0	0	0	0
3/24/2024 8:10	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
3/24/2024 8:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/24/2024 8:11	29402	BELT_T1	2	1	-1	2.7	4.9	2.2	0	0	0	0	0	0	0	0
3/24/2024 8:16	48301	ORWI_T1	2	2	0	4.35	3.95	-0.4	0	0	0	0	0	0	0	0
3/24/2024 8:18	48301	ORWI_T1	2	2	0	4.35	3.95	-0.4	0	0	0	0	0	0	0	0
3/24/2024 8:20	41901	REED_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
3/24/2024 8:20	67103	SPRI_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
3/24/2024 8:20	41902	REED_T1	9	17	8	0.32	0.53	0.21	0.98	0.98	0	0	0	0	0	0
3/24/2024 8:22	41902	REED_T1	9	17	8	0.32	0.53	0.21	0.98	0.98	0	0	0	0	0	0
3/24/2024 8:22	67103	SPRI_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
3/24/2024 8:22	41901	REED_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
3/24/2024 8:28	25402	LAHA_T2	357	385	28	1.5	1.24	-0.26	-0.54	-0.55	0	0	0	0	0	0
3/24/2024 8:30	46801	HEPB_T2	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
3/24/2024 8:37	26002	WDAM_T1	2	2	0	1.5	1.55	0.05	0	0	0	0	0	0	0	0
3/24/2024 8:37	26001	WDAM_T1	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
3/24/2024 8:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 8:42	40502	CRES_T2	6	1	-5	0.15	0.1	-0.05	-0.63	-0.68	0	0	0	0	0	0
3/24/2024 8:46	63203	MGTN_T1	8	71	63	0.11	0.37	0.26	0.52	0.51	0	0	0	0	0	0
3/24/2024 8:46	63204	MGTN_T1	0	76	76	0	0.25	0.25	0	0	0	0	0	0	0	0
3/24/2024 8:48	47401	PENS_T1	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
3/24/2024 8:50	47401	PENS_T1	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
3/24/2024 9:00	64203	KINZ_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
3/24/2024 9:00	64202	KINZ_T1	5	12	7	0.12	0.23	0.11	0	0	0	0	0	0	0	0
3/24/2024 9:00	64201	KINZ_T1	5	7	2	0.28	0.37	0.09	0	0	0	0	0	0	0	0
3/24/2024 9:00	64204	KINZ_T1	2	3	1	0.85	0.43	-0.42	0	0	0	0	0	0	0	0
3/24/2024 9:02	63203	MGTN_T1	28	75	47	0.16	0.36	0.2	0.51	0.54	0	0	0	0	0	0
3/24/2024 9:02	63204	MGTN_T1	3	77	74	0.13	0.25	0.12	0	0	0	0	0	0	0	0
3/24/2024 9:09	67402	WAKE_T2	0	0	0	0	0	0	-0.38	-0.4	1	1	0	600	600	0
3/24/2024 9:11	10801	CHHI_T1	0	1	1	0	0.1	0.1	-1.45	-1.45	2	2	0	1500	1500	0
3/24/2024 9:13	40101	HUNT_T2	10	14	4	0.35	0.3	-0.05	-0.54	-0.5	0	0	0	0	0	0
3/24/2024 9:16	10801	CHHI_T1	0	3	3	0	0.27	0.27	-1.45	-1.45	2	2	0	1500	1500	0
3/24/2024 9:18	40101	HUNT_T2	14	7	-7	0.31	0	-0.31	-0.54	-0.5	0	0	0	0	0	0
3/24/2024 9:19	13503	MCMI_T2	0	2	2	0	0	0	-0.65	-0.65	0	0	0	0	0	0
3/24/2024 9:22	45902	AUBU_T1	1	1	0	1.1	1	-0.1	-0.97	-0.94	1	1	0	600	600	0
3/24/2024 9:23	40101	HUNT_T2	14	7	-7	0.31	0	-0.31	-0.5	-0.5	0	0	0	0	0	0
3/24/2024 9:23	45902	AUBU_T1	1	1	0	1.1	1	-0.1	-0.94	-0.96	1	1	0	600	600	0
3/24/2024 9:25	45902	AUBU_T1	1	1	0	1.1	1	-0.1	-1.89	-1.92	2	2	0	1200	1200	0
3/24/2024 9:25	46204	DANV_T2	4	2	-2	0.33	0	-0.33	0	0	0	0	0	0	0	0
3/24/2024 9:25	46203	DANV_T2	0	2	2	0	0.25	0.25	-2.16	-2.15	0	0	0	0	0	0
3/24/2024 9:26	45902	AUBU_T1	1	1	0	1.1	1	-0.1	-0.94	-0.96	1	1	0	600	600	0
3/24/2024 9:27	10801	CHHI_T1	0	3	3	0	0.27	0.27	-1.45	-1.47	2	2	0	1500	1500	0
3/24/2024 9:28	52402	GRPA_T2	1	1	0	2.3	2.3	0	-1.04	-1.09	0	0	0	0	0	0
3/24/2024 9:28	46801	HEPB_T2	0	0	0	0	0	0	0.67	0.63	0	0	0	0	0	0
3/24/2024 9:28	52403	GRPA_T2	63	72	9	0.53	0.44	-0.09	0	0	0	0	0	0	0	0
3/24/2024 9:29	46203	DANV_T2	0	2	2	0	0.25	0.25	-2.16	-2.15	0	0	0	0	0	0
3/24/2024 9:29	46204	DANV_T2	4	2	-2	0.33	0	-0.33	0	0	0	0	0	0	0	0
3/24/2024 9:29	45902	AUBU_T1	1	1	0	1.1	1	-0.1	-0.94	-0.96	1	1	0	600	600	0
3/24/2024 9:31	64202	KINZ_T1	10	13	3	0.25	0.25	0	0	0	0	0	0	0	0	0
3/24/2024 9:31	64204	KINZ_T1	3	4	1	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
3/24/2024 9:31	64203	KINZ_T1	0	1	1	0	0.4	0.4	0	0.04	0	0	0	0	0	0
3/24/2024 9:31	64201	KINZ_T1	7	7	0	0.37	0.47	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/24/2024 9:31	52403	GRPA_T2	23	73	50	0.35	0.59	0.24	0	0	0	0	0	0	0	0
3/24/2024 9:31	52402	GRPA_T2	1	1	0	2.3	2.7	0.4	-1.04	-1.09	0	0	0	0	0	0
3/24/2024 9:32	64202	KINZ_T1	10	13	3	0.25	0.25	0	0	0	0	0	0	0	0	0
3/24/2024 9:32	64201	KINZ_T1	7	7	0	0.37	0.47	0.1	0	0	0	0	0	0	0	0
3/24/2024 9:32	64203	KINZ_T1	0	1	1	0	0.4	0.4	0	0.02	0	0	0	0	0	0
3/24/2024 9:32	10801	CHHI_T1	1	3	2	0.1	0.27	0.17	-1.45	-1.47	2	2	0	1500	1500	0
3/24/2024 9:32	64204	KINZ_T1	3	4	1	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
3/24/2024 9:33	64201	KINZ_T1	7	7	0	0.37	0.47	0.1	0	0	0	0	0	0	0	0
3/24/2024 9:33	64202	KINZ_T1	10	13	3	0.25	0.25	0	0	0	0	0	0	0	0	0
3/24/2024 9:33	64203	KINZ_T1	0	1	1	0	0.4	0.4	0	0.02	0	0	0	0	0	0
3/24/2024 9:33	64204	KINZ_T1	3	4	1	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
3/24/2024 9:36	59101	WALK_T2	0	0	0	0	0	0	0.73	0.94	1	1	0	600	600	0
3/24/2024 9:36	59102	WALK_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
3/24/2024 9:39	45902	AUBU_T1	1	2	1	0.2	1.05	0.85	-0.96	-0.99	1	1	0	600	600	0
3/24/2024 9:39	67605	WARW_T1	0	1	1	0	0.2	0.2	-1.09	-1.06	0	0	0	0	0	0
3/24/2024 9:40	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 9:40	20403	ASHF_T2	0	0	0	0	0	0	-1.68	-1.72	0	0	0	0	0	0
3/24/2024 9:41	20403	ASHF_T2	0	0	0	0	0	0	-1.68	-1.72	0	0	0	0	0	0
3/24/2024 9:41	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 9:43	10801	CHHI_T1	1	3	2	0.1	0.27	0.17	-2.94	-2.92	4	4	0	3000	3000	0
3/24/2024 9:44	45902	AUBU_T1	1	2	1	0.2	1.05	0.85	-0.96	-0.99	1	1	0	600	600	0
3/24/2024 9:45	52402	GRPA_T2	1	3	2	1.9	2.9	1	0	0	0	0	0	0	0	0
3/24/2024 9:45	52403	GRPA_T2	72	36	-36	0.53	0.86	0.33	-0.04	-0.04	0	0	0	0	0	0
3/24/2024 9:45	47001	HUGH_T2	0	0	0	0	0	0	-1.66	-1.68	1	1	0	900	900	0
3/24/2024 9:48	10801	CHHI_T1	3	4	1	0.27	0.2	-0.07	-1.47	-1.46	2	2	0	1500	1500	0
3/24/2024 9:51	67901	WNHO_T2	128	158	30	0.37	0.45	0.08	-0.57	-0.58	0	0	0	0	0	0
3/24/2024 9:51	67902	WNHO_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/24/2024 9:52	67402	WAKE_T2	0	0	0	0	0	0	-0.37	-0.39	1	1	0	600	600	0
3/24/2024 9:53	10801	CHHI_T1	3	4	1	0.27	0.2	-0.07	-1.46	-1.51	2	2	0	1500	1500	0
3/24/2024 9:53	42201	SHEN_T2	0	0	0	0	0	0	-0.19	-0.19	1	1	0	600	600	0
3/24/2024 9:55	45902	AUBU_T1	1	2	1	1	1.05	0.05	-0.99	-0.97	1	1	0	600	600	0
3/24/2024 9:56	41801	GOCI_T2	2	3	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
3/24/2024 9:56	45501	DERR_T2	0	0	0	0	0	0	-0.54	-0.51	2	2	0	1800	1800	0
3/24/2024 9:57	40201	BEGA_T2	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/24/2024 9:58	41801	GOCI_T2	2	3	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
3/24/2024 9:59	10801	CHHI_T1	3	4	1	0.27	0.2	-0.07	-1.46	-1.51	2	2	0	1500	1500	0
3/24/2024 10:00	28805	LAKE_T1	1	2	1	0.1	0.1	0	-0.34	-0.33	0	0	0	0	0	0
3/24/2024 10:00	66302	MCGO_T2	1	1	0	1.6	0.6	-1	-0.83	-0.83	0	0	0	0	0	0
3/24/2024 10:00	13503	MCMI_T2	1	4	3	0.6	0.65	0.05	-0.65	-0.65	0	0	0	0	0	0
3/24/2024 10:00	53901	HALI_T2	2	3	1	0.45	0.47	0.02	0	0	0	0	0	0	0	0
3/24/2024 10:00	47403	PENS_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/24/2024 10:00	45602	WOOL_T1	0	2	2	0	0	0	0.49	0.5	0	0	0	0	0	0
3/24/2024 10:00	65901	SAKR_T2	1	2	1	8.1	4.1	-4	-2.42	-2.41	2	2	0	1800	1800	0
3/24/2024 10:00	67103	SPRI_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
3/24/2024 10:00	60701	BREC_T1	1	2	1	0.1	0.55	0.45	-0.51	-0.5	1	1	0	600	600	0
3/24/2024 10:00	40502	CRES_T2	19	4	-15	0.24	0.18	-0.06	-0.8	-0.82	0	0	0	0	0	0
3/24/2024 10:00	66303	MCGO_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/24/2024 10:00	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
3/24/2024 10:00	53902	HALI_T2	1	2	1	6.1	3	-3.1	0	0	0	0	0	0	0	0
3/24/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	-0.39	-0.41	1	1	0	600	600	0
3/24/2024 10:00	52001	LING_T1	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
3/24/2024 10:00	28801	LAKE_T1	260	304	44	0.97	0.82	-0.15	0	0	0	0	0	0	0	0
3/24/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.47	-0.48	1	1	0	600	600	0
3/24/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.42	-0.45	2	2	0	1500	1500	0
3/24/2024 10:00	16402	MOPO_T1	2	7	5	0.2	0.84	0.64	-0.05	-0.05	0	0	0	0	0	0
3/24/2024 10:00	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/24/2024 10:00	47401	PENS_T1	0	3	3	0	0.67	0.67	1.67	1.67	0	0	0	0	0	0
3/24/2024 10:00	67605	WARW_T1	1	12	11	0.2	0.29	0.09	0	0	0	0	0	0	0	0
3/24/2024 10:00	46203	DANV_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
3/24/2024 10:00	47402	PENS_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
3/24/2024 10:00	45902	AUBU_T1	2	2	0	1.05	0.85	-0.2	-0.99	-0.97	1	1	0	600	600	0
3/24/2024 10:00	46801	HEPB_T2	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
3/24/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0
3/24/2024 10:00	66505	SMAN_T2	0	0	0	0	0	0	-0.21	-0.32	2	2	0	1100	1100	0
3/24/2024 10:00	40504	CRES_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/24/2024 10:00	46206	DANV_T2	0	2	2	0	0.1	0.1	2.18	2.19	1	1	0	1200	1200	0
3/24/2024 10:00	57401	SPAN_T1	0	0	0	0	0	0	-1.04	-1.06	1	1	0	600	600	0
3/24/2024 10:00	40201	BEGA_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/24/2024 10:00	53903	HALI_T2	2	2	0	0.95	1.2	0.25	-0.23	-0.23	0	0	0	0	0	0
3/24/2024 10:00	46204	DANV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/24/2024 10:00	62605	ENGL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/24/2024 10:00	16603	PONO_T2	0	0	0	0	0	0	0.21	0.14	1	1	0	1200	1200	0
3/24/2024 10:00	10801	CHHI_T1	2	6	4	0.2	0.43	0.23	-1.46	-1.51	2	2	0	1500	1500	0
3/24/2024 10:00	40101	HUNT_T2	10	14	4	0.27	0.17	-0.1	-1.44	-1.49	0	0	0	0	0	0
3/24/2024 10:00	48302	ORWI_T2	2	2	0	1.15	1.2	0.05	-1.02	-1.08	0	0	0	0	0	0
3/24/2024 10:00	40505	CRES_T1	1	2	1	2.3	0.5	-1.8	0.47	0.48	0	0	0	0	0	0
3/24/2024 10:00	43201	MVIL_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
3/24/2024 10:00	29402	BELT_T1	1	2	1	5.7	5.7	0	0	0	0	0	0	0	0	0
3/24/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
3/24/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	-0.19	-0.19	1	1	0	600	600	0
3/24/2024 10:00	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/24/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 10:00	58401	MORO_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	600	600	0
3/24/2024 10:00	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/24/2024 10:03	47403	PENS_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/24/2024 10:03	47402	PENS_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
3/24/2024 10:03	47401	PENS_T1	0	3	3	0	0.67	0.67	0.84	0.84	0	0	0	0	0	0
3/24/2024 10:05	47403	PENS_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/24/2024 10:05	47402	PENS_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
3/24/2024 10:05	47401	PENS_T1	0	3	3	0	0.67	0.67	0.84	0.84	0	0	0	0	0	0
3/24/2024 10:06	67103	SPRI_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
3/24/2024 10:06	47401	PENS_T1	0	3	3	0	0.67	0.67	1.67	1.67	0	0	0	0	0	0
3/24/2024 10:06	47104	MARL_T1	0	0	0	0	0	0	-0.84	-0.87	0	0	0	0	0	0
3/24/2024 10:06	47403	PENS_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/24/2024 10:06	47101	MARL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 10:06	47402	PENS_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
3/24/2024 10:07	24105	EHAZ_T1	21	24	3	2.11	2.47	0.36	-0.62	-0.61	0	0	0	0	0	0
3/24/2024 10:07	39601	LNFD_T1	7	17	10	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/24/2024 10:07	60801	BUCK_T1	0	0	0	0	0	0	-0.84	-0.66	1	1	0	600	600	0
3/24/2024 10:07	26002	WDAM_T1	2	2	0	1.85	0.7	-1.15	0	0	0	0	0	0	0	0
3/24/2024 10:07	10801	CHHI_T1	2	6	4	0.2	0.43	0.23	-1.46	-1.51	2	2	0	1500	1500	0
3/24/2024 10:07	46701	RENO_T1	9	5	-4	1.13	2	0.87	0	0	0	0	0	0	0	0
3/24/2024 10:07	67103	SPRI_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
3/24/2024 10:07	46702	RENO_T1	1	1	0	0.2	0.2	0	-0.15	-0.15	0	0	0	0	0	0
3/24/2024 10:07	41901	REED_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
3/24/2024 10:07	26001	WDAM_T1	0	0	0	0	0	0	-0.56	-0.61	0	0	0	0	0	0
3/24/2024 10:07	24102	EHAZ_T1	1	6	5	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
3/24/2024 10:07	12502	MITR_T2	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
3/24/2024 10:07	24101	EHAZ_T1	49	56	7	1.17	1.17	0	0	0	0	0	0	0	0	0
3/24/2024 10:07	12505	MITR_T2	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
3/24/2024 10:07	41902	REED_T1	15	11	-4	0.51	0.45	-0.06	1	0.97	0	0	0	0	0	0
3/24/2024 10:08	46004	BERW_T2	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
3/24/2024 10:08	45902	AUBU_T1	2	2	0	1.05	0.85	-0.2	-0.97	-0.97	1	1	0	600	600	0
3/24/2024 10:08	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/24/2024 10:08	67605	WARW_T1	1	12	11	0.2	0.29	0.09	-1.06	-1.09	0	0	0	0	0	0
3/24/2024 10:08	57401	SPAN_T1	0	0	0	0	0	0	-2.12	-2.18	2	2	0	1200	1200	0
3/24/2024 10:08	42701	AUGU_T1	1	2	1	0.5	0.35	-0.15	0	0	4	4	0	3600	3600	0
3/24/2024 10:08	64903	MILL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/24/2024 10:08	64902	MILL_T2	0	0	0	0	0	0	-1.34	-1.37	1	1	0	900	900	0
3/24/2024 10:08	42302	MOWR_T2	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
3/24/2024 10:08	45602	WOOL_T1	0	2	2	0	0	0	0.49	0.5	0	0	0	0	0	0
3/24/2024 10:09	42201	SHEN_T2	0	0	0	0	0	0	-0.19	-0.19	1	1	0	600	600	0
3/24/2024 10:09	29402	BELT_T1	1	2	1	5.7	5.7	0	0	0	0	0	0	0	0	0
3/24/2024 10:09	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/24/2024 10:09	10801	CHHI_T1	2	6	4	0.2	0.43	0.23	-1.51	-1.49	2	2	0	1500	1500	0
3/24/2024 10:09	45902	AUBU_T1	2	2	0	1.05	0.85	-0.2	-0.97	-0.97	1	1	0	600	600	0
3/24/2024 10:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/24/2024 10:10	44301	BEAV_T2	7	11	4	0.46	0.49	0.03	0	0	0	0	0	0	0	0
3/24/2024 10:10	45902	AUBU_T1	2	2	0	1.05	0.85	-0.2	-1.94	-1.94	2	2	0	1200	1200	0
3/24/2024 10:10	48302	ORWI_T2	2	2	0	1.15	1.2	0.05	0	0	0	0	0	0	0	0
3/24/2024 10:10	44302	BEAV_T2	197	290	93	0.5	0.59	0.09	0.26	0.27	0	0	0	0	0	0
3/24/2024 10:10	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/24/2024 10:10	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
3/24/2024 10:10	29402	BELT_T1	1	2	1	5.7	5.7	0	0	0	0	0	0	0	0	0
3/24/2024 10:11	46204	DANV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/24/2024 10:11	67605	WARW_T1	1	12	11	0.2	0.29	0.09	-2.18	-2.27	0	0	0	0	0	0
3/24/2024 10:11	52402	GRPA_T2	1	3	2	2.7	2.9	0.2	0	0	0	0	0	0	0	0
3/24/2024 10:11	45902	AUBU_T1	2	2	0	1.05	0.85	-0.2	0	0	0	0	0	0	0	0
3/24/2024 10:11	62604	ENGL_T1	0	0	0	0	0	0	-0.95	-0.95	2	2	0	1200	1200	0
3/24/2024 10:11	45901	AUBU_T1	0	1	1	0	0.1	0.1	1.04	1.04	0	0	0	0	0	0
3/24/2024 10:11	29402	BELT_T1	1	2	1	5.7	5.7	0	0	0	0	0	0	0	0	0
3/24/2024 10:11	46203	DANV_T2	0	3	3	0	0.43	0.43	-2.16	-2.16	0	0	0	0	0	0
3/24/2024 10:11	52403	GRPA_T2	34	13	-21	0.6	0.85	0.25	-0.04	-0.05	0	0	0	0	0	0
3/24/2024 10:11	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
3/24/2024 10:11	46206	DANV_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/24/2024 10:11	62605	ENGL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/24/2024 10:11	45501	DERR_T2	0	0	0	0	0	0	-0.51	-0.6	2	2	0	1800	1800	0
3/24/2024 10:12	46206	DANV_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/24/2024 10:12	46204	DANV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/24/2024 10:12	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/24/2024 10:12	46203	DANV_T2	0	3	3	0	0.43	0.43	-2.16	-2.16	0	0	0	0	0	0
3/24/2024 10:12	45902	AUBU_T1	2	2	0	1.05	0.85	-0.2	-1.94	-1.94	2	2	0	1200	1200	0
3/24/2024 10:13	29402	BELT_T1	1	2	1	5.7	5.7	0	0	0	0	0	0	0	0	0
3/24/2024 10:13	62604	ENGL_T1	0	0	0	0	0	0	-0.48	-0.47	1	1	0	600	600	0
3/24/2024 10:13	52403	GRPA_T2	34	13	-21	0.6	0.85	0.25	0	0	0	0	0	0	0	0
3/24/2024 10:13	62605	ENGL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/24/2024 10:13	52402	GRPA_T2	1	3	2	2.7	2.9	0.2	-1.01	-1.03	0	0	0	0	0	0
3/24/2024 10:15	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/24/2024 10:15	52402	GRPA_T2	3	1	-2	1.17	2.2	1.03	-1.01	-1.03	0	0	0	0	0	0
3/24/2024 10:15	63204	MGTN_T1	4	57	53	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/24/2024 10:15	63203	MGTN_T1	21	70	49	0.23	0.27	0.04	0.52	0.51	0	0	0	0	0	0
3/24/2024 10:15	46801	HEPB_T2	0	0	0	0	0	0	0.64	0.66	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/24/2024 10:15	52403	GRPA_T2	10	12	2	0.87	0.71	-0.16	0	0	0	0	0	0	0	0
3/24/2024 10:16	13503	MCMI_T2	4	5	1	0.4	0.42	0.02	-0.65	-0.66	0	0	0	0	0	0
3/24/2024 10:16	57304	MOAL_T2	1	0	-1	0.2	0	-0.2	-0.74	-1.07	0	0	0	0	0	0
3/24/2024 10:16	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/24/2024 10:16	57303	MOAL_T2	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
3/24/2024 10:16	46801	HEPB_T2	0	0	0	0	0	0	0.64	0.66	0	0	0	0	0	0
3/24/2024 10:17	13503	MCMI_T2	4	5	1	0.4	0.42	0.02	-0.65	-0.66	0	0	0	0	0	0
3/24/2024 10:17	40602	PIGR_T1	0	0	0	0	0	0	-1.24	-1.29	2	2	0	1200	1200	0
3/24/2024 10:17	40601	PIGR_T1	1	3	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
3/24/2024 10:18	52503	PROG_T2	0	0	0	0	0	0	-0.54	-0.54	1	1	0	900	900	0
3/24/2024 10:18	52502	PROG_T2	0	2	2	0	0.45	0.45	-0.5	-0.51	1	1	0	900	900	0
3/24/2024 10:19	64203	KINZ_T1	0	1	1	0	0.7	0.7	0	0.03	0	0	0	0	0	0
3/24/2024 10:19	64201	KINZ_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/24/2024 10:19	64204	KINZ_T1	2	3	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/24/2024 10:19	64202	KINZ_T1	0	4	4	0	0.17	0.17	0	0	0	0	0	0	0	0
3/24/2024 10:20	67204	TEHI_T2	0	1	1	0	0.8	0.8	-0.2	0.1	0	0	0	0	0	0
3/24/2024 10:20	57401	SPAN_T1	0	0	0	0	0	0	-1.06	-1.09	1	1	0	600	600	0
3/24/2024 10:21	17803	GILB_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/24/2024 10:21	66502	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/24/2024 10:21	66504	SMAN_T2	0	0	0	0	0	0	-1.02	-0.94	0	0	0	0	0	0
3/24/2024 10:21	57401	SPAN_T1	0	0	0	0	0	0	-1.06	-1.09	1	1	0	600	600	0
3/24/2024 10:21	17804	GILB_T2	0	1	1	0	0.5	0.5	-0.47	-0.49	0	0	0	0	0	0
3/24/2024 10:21	17802	GILB_T1	1	1	0	1.1	0.4	-0.7	-0.01	0.11	0	0	0	0	0	0
3/24/2024 10:22	67201	TEHI_T1	114	122	8	1.15	1.44	0.29	-0.15	-0.16	0	0	0	0	0	0
3/24/2024 10:22	65001	NEFF_T2	1	1	0	0.2	0.2	0	-1.36	-1.29	1	1	0	1200	1200	0
3/24/2024 10:22	67402	WAKE_T2	0	0	0	0	0	0	-0.41	0.19	1	0	-1	600	0	-600
3/24/2024 10:22	40601	PIGR_T1	1	3	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
3/24/2024 10:22	40602	PIGR_T1	0	0	0	0	0	0	-0.62	-0.64	1	1	0	600	600	0
3/24/2024 10:22	52502	PROG_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
3/24/2024 10:22	52503	PROG_T2	0	0	0	0	0	0	-0.54	-0.54	1	1	0	900	900	0
3/24/2024 10:22	65005	NEFF_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/24/2024 10:23	56802	BENV_T2	0	0	0	0	0	0	-2.84	-2.81	0	0	0	0	0	0
3/24/2024 10:23	59101	WALK_T2	0	0	0	0	0	0	0.95	1.07	1	1	0	600	600	0
3/24/2024 10:23	60201	ATGL_T2	0	1	1	0	0.1	0.1	-0.05	-0.09	1	1	0	300	300	0
3/24/2024 10:23	67901	WNHO_T2	131	195	64	0.4	0.51	0.11	-0.59	-0.6	0	0	0	0	0	0
3/24/2024 10:23	59102	WALK_T2	1	13	12	0.8	0.31	-0.49	0	0	0	0	0	0	0	0
3/24/2024 10:23	67902	WNHO_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
3/24/2024 10:23	40201	BEGA_T2	2	1	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
3/24/2024 10:24	59102	WALK_T2	1	13	12	0.8	0.31	-0.49	0	0	0	0	0	0	0	0
3/24/2024 10:24	59101	WALK_T2	0	0	0	0	0	0	0.95	1.07	1	1	0	600	600	0
3/24/2024 10:24	51603	DUKE_T1	0	1	1	0	0.1	0.1	-1.24	-1.25	0	0	0	0	0	0
3/24/2024 10:25	56802	BENV_T2	0	0	0	0	0	0	-2.84	-2.81	0	0	0	0	0	0
3/24/2024 10:25	46203	DANV_T2	0	5	5	0	0.36	0.36	-2.16	-2.19	0	0	0	0	0	0
3/24/2024 10:25	67204	TEHI_T2	0	1	1	0	0.8	0.8	0.1	0.1	0	0	0	0	0	0
3/24/2024 10:25	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/24/2024 10:25	46206	DANV_T2	0	8	8	0	0.18	0.18	2.13	2.17	1	1	0	1200	1200	0
3/24/2024 10:26	51603	DUKE_T1	0	1	1	0	0.1	0.1	-1.24	-1.25	0	0	0	0	0	0
3/24/2024 10:26	27101	GFLD_T2	1	1	0	2.8	1.3	-1.5	0.35	0.36	0	0	0	0	0	0
3/24/2024 10:28	63803	HEMP_T1	3	8	5	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/24/2024 10:28	63804	HEMP_T1	1	5	4	5.6	1.18	-4.42	0	0	0	0	0	0	0	0
3/24/2024 10:28	63801	HEMP_T1	5	11	6	0.32	0.32	0	0	0	0	0	0	0	0	0
3/24/2024 10:28	63802	HEMP_T1	1	4	3	0.2	0.15	-0.05	0.16	0.16	0	0	0	0	0	0
3/24/2024 10:28	40901	JESH_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
3/24/2024 10:28	40902	JESH_T1	1	0	-1	0.1	0	-0.1	-1.52	-1.51	1	1	0	600	600	0
3/24/2024 10:28	56802	BENV_T2	0	0	0	0	0	0	-1.42	-1.4	0	0	0	0	0	0
3/24/2024 10:29	41801	GOCI_T2	3	3	0	0.87	0.4	-0.47	0	0	0	0	0	0	0	0
3/24/2024 10:30	46203	DANV_T2	3	5	2	0.43	0.36	-0.07	0	0	0	0	0	0	0	0
3/24/2024 10:30	46206	DANV_T2	2	9	7	0.35	0.2	-0.15	2.13	2.17	1	1	0	1200	1200	0
3/24/2024 10:30	63803	HEMP_T1	8	3	-5	0.23	0.27	0.04	0	0	0	0	0	0	0	0
3/24/2024 10:30	63802	HEMP_T1	4	0	-4	0.15	0	-0.15	0.16	0.16	0	0	0	0	0	0
3/24/2024 10:30	63804	HEMP_T1	5	1	-4	1.18	5.7	4.52	0	0	0	0	0	0	0	0
3/24/2024 10:30	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 10:30	41801	GOCI_T2	1	3	2	0.4	0.47	0.07	0	0	0	0	0	0	0	0
3/24/2024 10:30	63801	HEMP_T1	10	6	-4	0.31	0.4	0.09	0	0	0	0	0	0	0	0
3/24/2024 10:33	41902	REED_T1	5	0	-5	0.26	0	-0.26	0.93	1.01	0	0	0	0	0	0
3/24/2024 10:33	41901	REED_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
3/24/2024 10:34	48301	ORWI_T1	2	2	0	4.6	3.6	-1	0	0	0	0	0	0	0	0
3/24/2024 10:36	41901	REED_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
3/24/2024 10:36	51603	DUKE_T1	1	0	-1	0.1	0	-0.1	-1.24	-1.25	0	0	0	0	0	0
3/24/2024 10:36	41902	REED_T1	5	0	-5	0.26	0	-0.26	0.93	1.01	0	0	0	0	0	0
3/24/2024 10:38	45501	DERR_T2	0	0	0	0	0	0	-0.6	-0.59	2	2	0	1800	1800	0
3/24/2024 10:38	58001	WCAR_T1	3	4	1	0.67	0.75	0.08	0	0	0	0	0	0	0	0
3/24/2024 10:38	58003	WCAR_T1	1	2	1	1.8	0.95	-0.85	-0.04	-0.04	1	1	0	600	600	0
3/24/2024 10:39	45402	WBLO_T2	1	1	0	0.1	0.9	0.8	-1.57	-1.59	1	1	0	900	900	0
3/24/2024 10:40	60201	ATGL_T2	1	0	-1	0.1	0	-0.1	-0.1	-0.04	1	1	0	300	300	0
3/24/2024 10:40	45501	DERR_T2	0	0	0	0	0	0	-0.59	-0.56	2	2	0	1800	1800	0
3/24/2024 10:41	45402	WBLO_T2	1	1	0	0.1	0.9	0.8	-1.57	-1.59	1	1	0	900	900	0
3/24/2024 10:42	45901	AUBU_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/24/2024 10:42	58001	WCAR_T1	3	4	1	0.67	0.75	0.08	0	0	0	0	0	0	0	0
3/24/2024 10:42	58003	WCAR_T1	1	2	1	1.8	0.95	-0.85	-0.04	-0.04	1	1	0	600	600	0
3/24/2024 10:42	45902	AUBU_T1	2	2	0	0.75	0.9	0.15	-0.94	-0.93	1	1	0	600	600	0
3/24/2024 10:43	41801	GOCI_T2	1	3	2	0.4	0.47	0.07	0	0	0	0	0	0	0	0
3/24/2024 10:44	47001	HUGH_T2	0	0	0	0	0	0	-1.64	-1.69	1	1	0	900	900	0
3/24/2024 10:44	64402	LAND_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/24/2024 10:44	64402	LAND_T2	2	1	-1	0.25	0.4	0.15	-0.65	-0.64	1	1	0	600	600	0
3/24/2024 10:45	42902	MIDD_T2	99	122	23	0.56	0.53	-0.03	-0.59	-0.61	0	0	0	0	0	0
3/24/2024 10:45	42901	MIDD_T2	193	231	38	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
3/24/2024 10:45	42903	MIDD_T2	82	98	16	0.54	0.54	0	0	0	0	0	0	0	0	0
3/24/2024 10:46	45901	AUBU_T1	1	2	1	0.1	0.2	0.1	0.99	1.04	0	0	0	0	0	0
3/24/2024 10:46	45902	AUBU_T1	2	2	0	0.85	0.9	0.05	0	0	0	0	0	0	0	0
3/24/2024 10:47	47401	PENS_T1	3	5	2	0.47	0.5	0.03	0.97	0.97	0	0	0	0	0	0
3/24/2024 10:47	47402	PENS_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/24/2024 10:47	47403	PENS_T1	2	6	4	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
3/24/2024 10:49	48301	ORWI_T1	2	2	0	3.5	3.7	0.2	0	0	0	0	0	0	0	0
3/24/2024 10:50	47402	PENS_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/24/2024 10:50	47401	PENS_T1	3	5	2	0.47	0.5	0.03	0.97	0.97	0	0	0	0	0	0
3/24/2024 10:50	47403	PENS_T1	2	6	4	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
3/24/2024 10:50	42903	MIDD_T2	82	98	16	0.54	0.54	0	0	0	0	0	0	0	0	0
3/24/2024 10:50	42902	MIDD_T2	99	122	23	0.56	0.53	-0.03	-0.59	-0.61	0	0	0	0	0	0
3/24/2024 10:50	42901	MIDD_T2	193	231	38	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
3/24/2024 10:51	47401	PENS_T1	3	5	2	0.47	0.5	0.03	0.97	0.97	0	0	0	0	0	0
3/24/2024 10:51	46403	PIGR_T1	0	0	0	0	0	0	-0.67	-0.66	1	1	0	900	900	0
3/24/2024 10:51	47402	PENS_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/24/2024 10:51	40601	PIGR_T1	3	4	1	0.33	0.45	0.12	0	0	0	0	0	0	0	0
3/24/2024 10:51	47403	PENS_T1	2	6	4	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
3/24/2024 10:54	59102	WALK_T2	7	27	20	0.4	0.32	-0.08	0	0	0	0	0	0	0	0
3/24/2024 10:54	60801	BUCK_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/24/2024 10:54	59101	WALK_T2	0	1	1	0	0.2	0.2	0.92	1.01	1	0	-1	600	0	-600
3/24/2024 10:54	60803	BUCK_T1	0	0	0	0	0	0	-0.49	-0.49	1	1	0	600	600	0
3/24/2024 10:54	60101	COCA_T1	7	5	-2	0.54	0.68	0.14	0.31	0.31	0	0	0	0	0	0
3/24/2024 10:57	60801	BUCK_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/24/2024 10:57	17805	GILB_T2	58	1	-57	9.56	0.1	-9.46	-1.48	-1.67	0	0	0	0	0	0
3/24/2024 10:57	60803	BUCK_T1	0	0	0	0	0	0	-0.49	-0.49	1	1	0	600	600	0
3/24/2024 10:57	17804	GILB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/24/2024 10:57	14403	SSLA_T1	1	1	0	0.5	0.8	0.3	0.64	0.64	0	0	0	0	0	0
3/24/2024 10:57	17803	GILB_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/24/2024 10:57	14404	SSLA_T1	1	1	0	3.4	3.6	0.2	0	0	0	0	0	0	0	0
3/24/2024 10:58	53901	HALI_T2	1	3	2	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/24/2024 10:58	53902	HALI_T2	2	3	1	2.95	2.43	-0.52	0	0	0	0	0	0	0	0
3/24/2024 10:58	53903	HALI_T2	2	4	2	0.9	0.63	-0.27	-0.25	-0.21	0	0	0	0	0	0
3/24/2024 10:59	53903	HALI_T2	2	4	2	0.9	0.63	-0.27	-0.49	-0.42	0	0	0	0	0	0
3/24/2024 10:59	53901	HALI_T2	1	3	2	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/24/2024 10:59	53902	HALI_T2	2	3	1	2.95	2.43	-0.52	0	0	0	0	0	0	0	0
3/24/2024 10:59	45501	DERR_T2	0	1	1	0	0.5	0.5	-0.56	-0.63	2	2	0	1800	1800	0
3/24/2024 11:00	14404	SSLA_T1	1	1	0	3.3	3.6	0.3	0	0	0	0	0	0	0	0
3/24/2024 11:00	63602	LETO_T1	1	0	-1	0.2	0	-0.2	-1.09	-1.14	1	1	0	600	600	0
3/24/2024 11:00	14403	SSLA_T1	1	1	0	0.6	0.8	0.2	0.64	0.64	0	0	0	0	0	0
3/24/2024 11:02	59402	RFLD_T2	2	2	0	0.25	0.5	0.25	-0.87	-0.88	1	1	0	450	450	0
3/24/2024 11:02	63203	MGTN_T1	52	5	-47	0.26	0.42	0.16	0.49	0.52	0	0	0	0	0	0
3/24/2024 11:02	64204	KINZ_T1	3	16	13	0.67	0.28	-0.39	0	0	0	0	0	0	0	0
3/24/2024 11:02	64203	KINZ_T1	1	7	6	0.8	0.29	-0.51	0.01	0	0	0	0	0	0	0
3/24/2024 11:02	64201	KINZ_T1	0	8	8	0	0.38	0.38	0	0	0	0	0	0	0	0
3/24/2024 11:02	64202	KINZ_T1	3	16	13	0.1	0.33	0.23	0	0	0	0	0	0	0	0
3/24/2024 11:02	10801	CHHI_T1	6	2	-4	0.27	0.65	0.38	-1.53	-0.91	2	1	-1	1500	900	-600
3/24/2024 11:02	63204	MGTN_T1	35	0	-35	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/24/2024 11:03	42903	MIDD_T2	85	100	15	0.54	0.61	0.07	0	0	0	0	0	0	0	0
3/24/2024 11:03	42902	MIDD_T2	93	136	43	0.59	0.53	-0.06	-0.61	-0.59	0	0	0	0	0	0
3/24/2024 11:03	42901	MIDD_T2	195	279	84	0.43	0.44	0.01	0	0	0	0	0	0	0	0
3/24/2024 11:04	60101	COCA_T1	5	4	-1	0.68	0.53	-0.15	0.31	0.31	0	0	0	0	0	0
3/24/2024 11:04	64202	KINZ_T1	3	16	13	0.1	0.33	0.23	0	0	0	0	0	0	0	0
3/24/2024 11:04	64203	KINZ_T1	1	7	6	0.8	0.29	-0.51	0.01	0	0	0	0	0	0	0
3/24/2024 11:04	64204	KINZ_T1	3	16	13	0.67	0.28	-0.39	0	0	0	0	0	0	0	0
3/24/2024 11:04	48301	ORWI_T1	2	2	0	3.6	3.7	0.1	0	0	0	0	0	0	0	0
3/24/2024 11:04	64201	KINZ_T1	0	8	8	0	0.38	0.38	0	0	0	0	0	0	0	0
3/24/2024 11:05	42902	MIDD_T2	93	136	43	0.59	0.53	-0.06	-0.61	-0.59	0	0	0	0	0	0
3/24/2024 11:05	42903	MIDD_T2	85	100	15	0.54	0.61	0.07	0	0	0	0	0	0	0	0
3/24/2024 11:05	44601	SALE_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
3/24/2024 11:05	42901	MIDD_T2	195	279	84	0.43	0.44	0.01	0	0	0	0	0	0	0	0
3/24/2024 11:06	44601	SALE_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
3/24/2024 11:08	45901	AUBU_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/24/2024 11:08	45902	AUBU_T1	2	2	0	0.9	0.9	0	-0.95	-0.96	1	1	0	600	600	0
3/24/2024 11:09	58003	WCAR_T1	2	3	1	0.95	0.77	-0.18	-0.04	0.04	1	1	0	600	600	0
3/24/2024 11:09	44301	BEAV_T2	7	22	15	0.49	0.45	-0.04	-0.39	-0.4	1	0	-1	600	0	-600
3/24/2024 11:09	44302	BEAV_T2	262	376	114	0.53	0.61	0.08	0	0	0	0	0	0	0	0
3/24/2024 11:09	58001	WCAR_T1	4	5	1	0.75	0.76	0.01	0	0	0	0	0	0	0	0
3/24/2024 11:10	45901	AUBU_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/24/2024 11:10	45402	WBLO_T2	1	2	1	0.3	0.65	0.35	-1.61	-1.63	1	1	0	900	900	0
3/24/2024 11:10	45902	AUBU_T1	2	2	0	0.9	0.9	0	-0.95	-0.96	1	1	0	600	600	0
3/24/2024 11:12	45902	AUBU_T1	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0	0
3/24/2024 11:12	56801	BENV_T1	18	19	1	0.97	1.04	0.07	-0.7	-0.69	1	1	0	600	600	0
3/24/2024 11:12	10801	CHHI_T1	6	2	-4	0.27	0.65	0.38	-0.91	-0.92	1	1	0	900	900	0
3/24/2024 11:12	56803	BENV_T1	1	2	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/24/2024 11:12	45901	AUBU_T1	2	1	-1	0.2	0.2	0	1	1.05	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/24/2024 11:14	58003	WCAR_T1	2	3	1	0.95	0.77	-0.18	-0.04	0.04	1	1	0	600	600	0
3/24/2024 11:14	58001	WCAR_T1	4	5	1	0.75	0.76	0.01	0	0	0	0	0	0	0	0
3/24/2024 11:14	45901	AUBU_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/24/2024 11:14	45902	AUBU_T1	2	2	0	0.9	0.9	0	-0.95	-0.96	1	1	0	600	600	0
3/24/2024 11:17	10801	CHHI_T1	0	2	2	0	1.1	1.1	-0.91	-0.92	1	1	0	900	900	0
3/24/2024 11:18	64802	MONE_T2	2	2	0	0.75	0.4	-0.35	-0.29	0.28	0	0	0	0	0	0
3/24/2024 11:18	41902	REED_T1	1	4	3	0.2	0.25	0.05	0.99	0.96	0	0	0	0	0	0
3/24/2024 11:18	41901	REED_T1	2	3	1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
3/24/2024 11:18	64801	MONE_T2	3	2	-1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
3/24/2024 11:19	42901	MIDD_T2	209	286	77	0.42	0.46	0.04	0	0	0	0	0	0	0	0
3/24/2024 11:19	42903	MIDD_T2	91	104	13	0.53	0.79	0.26	0	0	0	0	0	0	0	0
3/24/2024 11:19	42902	MIDD_T2	118	132	14	0.51	0.6	0.09	-0.59	-0.56	0	0	0	0	0	0
3/24/2024 11:21	59201	THOM_T1	20	22	2	0.5	0.66	0.16	0	0	0	0	0	0	0	0
3/24/2024 11:21	41901	REED_T1	2	3	1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
3/24/2024 11:21	59202	THOM_T1	275	310	35	0.35	0.44	0.09	0	0	0	0	0	0	0	0
3/24/2024 11:21	41902	REED_T1	1	4	3	0.2	0.25	0.05	1.97	1.92	0	0	0	0	0	0
3/24/2024 11:22	60701	BREC_T1	7	22	15	0.49	0.39	-0.1	-1.04	-1.06	2	2	0	1200	1200	0
3/24/2024 11:23	17803	GILB_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/24/2024 11:23	17805	GILB_T2	3	6	3	0.3	0.48	0.18	-0.86	0.03	0	0	0	0	0	0
3/24/2024 11:23	17804	GILB_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/24/2024 11:23	42201	SHEN_T2	0	0	0	0	0	0	-0.19	-0.18	1	1	0	600	600	0
3/24/2024 11:24	44302	BEAV_T2	297	385	88	0.57	0.61	0.04	0.52	0.58	0	0	0	0	0	0
3/24/2024 11:24	45901	AUBU_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/24/2024 11:24	44301	BEAV_T2	13	23	10	0.37	0.46	0.09	0	0	0	0	0	0	0	0
3/24/2024 11:24	45902	AUBU_T1	2	3	1	0.8	0.63	-0.17	-0.96	-0.97	1	1	0	600	600	0
3/24/2024 11:25	45901	AUBU_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/24/2024 11:25	44302	BEAV_T2	297	385	88	0.57	0.61	0.04	0.26	0.29	0	0	0	0	0	0
3/24/2024 11:25	45902	AUBU_T1	2	3	1	0.8	0.63	-0.17	-0.96	-0.97	1	1	0	600	600	0
3/24/2024 11:25	44301	BEAV_T2	13	23	10	0.37	0.46	0.09	0	0	0	0	0	0	0	0
3/24/2024 11:27	17803	GILB_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/24/2024 11:27	61304	EARL_T1	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
3/24/2024 11:27	61302	EARL_T1	4	3	-1	0.83	0.9	0.07	0	0	0	0	0	0	0	0
3/24/2024 11:27	17805	GILB_T2	3	6	3	0.3	0.48	0.18	-0.86	0.03	0	0	0	0	0	0
3/24/2024 11:27	60701	BREC_T1	7	22	15	0.49	0.39	-0.1	-0.53	-0.51	1	1	0	600	600	0
3/24/2024 11:27	17804	GILB_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/24/2024 11:27	61301	EARL_T1	0	0	0	0	0	0	-0.49	-0.47	1	1	0	900	900	0
3/24/2024 11:29	61302	EARL_T1	4	3	-1	0.83	0.9	0.07	0	0	0	0	0	0	0	0
3/24/2024 11:29	61304	EARL_T1	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
3/24/2024 11:29	61303	EARL_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
3/24/2024 11:29	45901	AUBU_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/24/2024 11:29	45902	AUBU_T1	2	3	1	0.8	0.63	-0.17	-0.96	-0.97	1	1	0	600	600	0
3/24/2024 11:31	64202	KINZ_T1	14	19	5	0.35	0.38	0.03	0	0	0	0	0	0	0	0
3/24/2024 11:31	64203	KINZ_T1	7	13	6	0.29	0.31	0.02	0	0	0	0	0	0	0	0
3/24/2024 11:31	64204	KINZ_T1	16	22	6	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
3/24/2024 11:31	64201	KINZ_T1	8	12	4	0.38	0.48	0.1	0.57	0.48	1	1	0	300	300	0
3/24/2024 11:31	48301	ORWI_T1	2	2	0	3.65	3.8	0.15	0	0	0	0	0	0	0	0
3/24/2024 11:32	55001	NEWP_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/24/2024 11:32	25404	LAHA_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
3/24/2024 11:32	64201	KINZ_T1	8	12	4	0.38	0.48	0.1	0	0	0	0	0	0	0	0
3/24/2024 11:32	48301	ORWI_T1	2	2	0	3.65	3.8	0.15	0	0	0	0	0	0	0	0
3/24/2024 11:32	55002	NEWP_T1	7	7	0	0.49	0.73	0.24	-0.34	-0.36	0	0	0	0	0	0
3/24/2024 11:32	64202	KINZ_T1	14	19	5	0.35	0.38	0.03	0	0	0	0	0	0	0	0
3/24/2024 11:32	25402	LAHA_T2	147	199	52	0.45	0.45	0	-0.62	-0.63	0	0	0	0	0	0
3/24/2024 11:32	64203	KINZ_T1	7	13	6	0.29	0.31	0.02	0.1	0.02	0	0	0	0	0	0
3/24/2024 11:32	64204	KINZ_T1	16	22	6	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
3/24/2024 11:33	59402	RFLD_T2	2	3	1	0.4	0.37	-0.03	-0.86	-0.87	1	1	0	450	450	0
3/24/2024 11:33	48302	ORWI_T2	2	2	0	0.5	0.7	0.2	-0.57	-0.57	0	0	0	0	0	0
3/24/2024 11:34	41902	REED_T1	3	4	1	0.3	0.23	-0.07	0.96	0.97	0	0	0	0	0	0
3/24/2024 11:34	64204	KINZ_T1	16	22	6	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
3/24/2024 11:34	55001	NEWP_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/24/2024 11:34	64202	KINZ_T1	14	19	5	0.35	0.38	0.03	0	0	0	0	0	0	0	0
3/24/2024 11:34	54001	SDLE_T1	4	4	0	0.45	0.35	-0.1	0	0	2	2	0	1200	1200	0
3/24/2024 11:34	55002	NEWP_T1	7	7	0	0.49	0.73	0.24	-0.34	-0.36	0	0	0	0	0	0
3/24/2024 11:34	41901	REED_T1	3	1	-2	0.2	0.2	0	0	0	0	0	0	0	0	0
3/24/2024 11:34	64203	KINZ_T1	7	13	6	0.29	0.31	0.02	0.05	0.01	0	0	0	0	0	0
3/24/2024 11:34	64201	KINZ_T1	8	12	4	0.38	0.48	0.1	0	0	0	0	0	0	0	0
3/24/2024 11:35	64203	KINZ_T1	7	13	6	0.29	0.31	0.02	0.05	0.01	0	0	0	0	0	0
3/24/2024 11:35	64201	KINZ_T1	8	12	4	0.38	0.48	0.1	0	0	0	0	0	0	0	0
3/24/2024 11:35	64202	KINZ_T1	14	19	5	0.35	0.38	0.03	0	0	0	0	0	0	0	0
3/24/2024 11:35	64204	KINZ_T1	16	22	6	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
3/24/2024 11:36	57103	SPHI_T2	2	4	2	0.2	0.28	0.08	-0.9	-0.87	1	1	0	600	600	0
3/24/2024 11:36	48302	ORWI_T2	2	2	0	0.5	0.7	0.2	-0.57	-0.57	0	0	0	0	0	0
3/24/2024 11:36	57101	SPHI_T2	6	6	0	0.62	0.62	0	0	0	0	0	0	0	0	0
3/24/2024 11:36	57104	SPHI_T2	6	6	0	0.2	0.38	0.18	0	0	0	0	0	0	0	0
3/24/2024 11:36	41901	REED_T1	3	1	-2	0.2	0.2	0	0	0	0	0	0	0	0	0
3/24/2024 11:36	41902	REED_T1	3	4	1	0.3	0.23	-0.07	1.92	1.93	0	0	0	0	0	0
3/24/2024 11:36	54001	SDLE_T1	4	4	0	0.45	0.35	-0.1	0	0	2	2	0	1200	1200	0
3/24/2024 11:36	57106	SPHI_T2	4	6	2	1.55	1.15	-0.4	0	0	0	0	0	0	0	0
3/24/2024 11:37	42701	AUGU_T1	1	2	1	0.8	0.4	-0.4	0	0	4	4	0	3600	3600	0
3/24/2024 11:38	10801	CHHI_T1	2	4	2	0.65	0.85	0.2	-0.92	-0.93	1	1	0	900	900	0
3/24/2024 11:38	46005	BERW_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
3/24/2024 11:38	46001	BERW_T1	1	1	0	0.2	0.3	0.1	0.66	0.65	0	0	0	0	0	0
3/24/2024 11:39	45902	AUBU_T1	2	3	1	0.9	0.53	-0.37	-0.97	-0.95	1	1	0	600	600	0
3/24/2024 11:39	45901	AUBU_T1	1	1	0	0.2	0.3	0.1	1	1.06	0	0	0	0	0	0
3/24/2024 11:40	45901	AUBU_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/24/2024 11:40	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 11:40	58001	WCAR_T1	5	5	0	0.76	0.7	-0.06	0	0	0	0	0	0	0	0
3/24/2024 11:40	48302	ORWI_T2	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/24/2024 11:40	58003	WCAR_T1	3	6	3	0.77	0.63	-0.14	-0.03	0.61	1	0	-1	600	0	-600
3/24/2024 11:40	45902	AUBU_T1	2	3	1	0.9	0.53	-0.37	-2.9	-2.84	3	3	0	1800	1800	0
3/24/2024 11:41	41801	GOCI_T2	6	33	27	0.18	0.32	0.14	0	0	0	0	0	0	0	0
3/24/2024 11:41	58001	WCAR_T1	5	5	0	0.76	0.7	-0.06	0	0	0	0	0	0	0	0
3/24/2024 11:41	45901	AUBU_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/24/2024 11:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 11:41	58003	WCAR_T1	3	6	3	0.77	0.63	-0.14	-0.03	0.61	1	0	-1	600	0	-600
3/24/2024 11:41	45902	AUBU_T1	2	3	1	0.9	0.53	-0.37	-0.97	-0.95	1	1	0	600	600	0
3/24/2024 11:42	60101	COCA_T1	2	2	0	0.7	0.5	-0.2	0.3	0.28	0	0	0	0	0	0
3/24/2024 11:42	46005	BERW_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
3/24/2024 11:42	41801	GOCI_T2	6	33	27	0.18	0.32	0.14	0	0	0	0	0	0	0	0
3/24/2024 11:42	46001	BERW_T1	1	1	0	0.2	0.3	0.1	0.65	0.62	0	0	0	0	0	0
3/24/2024 11:42	45902	AUBU_T1	2	3	1	0.9	0.53	-0.37	-1.93	-1.89	2	2	0	1200	1200	0
3/24/2024 11:42	45901	AUBU_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/24/2024 11:43	45902	AUBU_T1	2	3	1	0.9	0.53	-0.37	-0.97	-0.95	1	1	0	600	600	0
3/24/2024 11:43	45901	AUBU_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/24/2024 11:43	25404	LAHA_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
3/24/2024 11:43	51603	DUKE_T1	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
3/24/2024 11:43	41801	GOCI_T2	6	33	27	0.18	0.32	0.14	0	0	0	0	0	0	0	0
3/24/2024 11:43	25402	LAHA_T2	147	199	52	0.45	0.45	0	-0.63	-0.65	0	0	0	0	0	0
3/24/2024 11:44	53903	HALI_T2	5	9	4	0.72	0.7	-0.02	-0.11	-0.1	0	0	0	0	0	0
3/24/2024 11:44	53902	HALI_T2	3	4	1	2.6	1.85	-0.75	0	0	0	0	0	0	0	0
3/24/2024 11:44	10801	CHHI_T1	2	4	2	0.65	0.85	0.2	-1.84	-1.86	2	2	0	1800	1800	0
3/24/2024 11:44	53901	HALI_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/24/2024 11:45	51603	DUKE_T1	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
3/24/2024 11:45	45902	AUBU_T1	3	2	-1	0.5	0.75	0.25	-0.97	-0.95	1	1	0	600	600	0
3/24/2024 11:45	45901	AUBU_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/24/2024 11:45	51401	LYKE_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
3/24/2024 11:46	17803	GILB_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/24/2024 11:46	17804	GILB_T2	1	1	0	0.2	0.4	0.2	-0.49	-0.51	0	0	0	0	0	0
3/24/2024 11:47	64402	LAND_T2	1	3	2	0.3	0.5	0.2	-0.68	-0.65	1	1	0	600	600	0
3/24/2024 11:47	64404	LAND_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/24/2024 11:49	47401	PENS_T1	5	6	1	0.64	0.9	0.26	1.03	1.02	0	0	0	0	0	0
3/24/2024 11:49	47402	PENS_T1	1	2	1	0.7	0.75	0.05	0	0	0	0	0	0	0	0
3/24/2024 11:49	47403	PENS_T1	7	7	0	0.46	0.53	0.07	0	0	0	0	0	0	0	0
3/24/2024 11:50	47401	PENS_T1	5	6	1	0.64	0.9	0.26	2.06	2.05	0	0	0	0	0	0
3/24/2024 11:50	47403	PENS_T1	7	7	0	0.46	0.53	0.07	0	0	0	0	0	0	0	0
3/24/2024 11:50	51401	LYKE_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
3/24/2024 11:50	47402	PENS_T1	1	2	1	0.7	0.75	0.05	0	0	0	0	0	0	0	0
3/24/2024 11:51	47403	PENS_T1	7	7	0	0.46	0.53	0.07	0	0	0	0	0	0	0	0
3/24/2024 11:51	47402	PENS_T1	1	2	1	0.7	0.75	0.05	0	0	0	0	0	0	0	0
3/24/2024 11:51	65901	SAKR_T2	2	2	0	4.05	4.15	0.1	-1.13	-1.18	1	1	0	900	900	0
3/24/2024 11:51	47401	PENS_T1	5	6	1	0.64	0.9	0.26	3.1	3.07	0	0	0	0	0	0
3/24/2024 11:52	65901	SAKR_T2	2	2	0	4.05	4.15	0.1	-1.13	-1.18	1	1	0	900	900	0
3/24/2024 11:53	59202	THOM_T1	303	303	0	0.44	0.38	-0.06	0	0	0	0	0	0	0	0
3/24/2024 11:53	47401	PENS_T1	5	6	1	0.64	0.9	0.26	1.03	1.02	0	0	0	0	0	0
3/24/2024 11:53	59201	THOM_T1	22	22	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
3/24/2024 11:53	47402	PENS_T1	1	2	1	0.7	0.75	0.05	0	0	0	0	0	0	0	0
3/24/2024 11:53	47403	PENS_T1	7	7	0	0.46	0.53	0.07	0	0	0	0	0	0	0	0
3/24/2024 11:54	47403	PENS_T1	7	7	0	0.46	0.53	0.07	0	0	0	0	0	0	0	0
3/24/2024 11:54	46005	BERW_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
3/24/2024 11:54	47402	PENS_T1	1	2	1	0.7	0.75	0.05	0	0	0	0	0	0	0	0
3/24/2024 11:54	47401	PENS_T1	5	6	1	0.64	0.9	0.26	1.02	1.05	0	0	0	0	0	0
3/24/2024 11:54	46001	BERW_T1	1	1	0	0.3	0.3	0	0.62	0.63	0	0	0	0	0	0
3/24/2024 11:54	10801	CHHI_T1	2	5	3	1.1	1	-0.1	-0.93	-0.92	1	1	0	900	900	0
3/24/2024 11:55	51603	DUKE_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
3/24/2024 11:55	10801	CHHI_T1	2	5	3	1.1	1	-0.1	-0.93	-0.92	1	1	0	900	900	0
3/24/2024 11:56	20403	ASHF_T2	0	4	4	0	0.25	0.25	-0.58	-0.6	0	0	0	0	0	0
3/24/2024 11:56	45501	DERR_T2	2	2	0	0.15	0.5	0.35	-0.77	-0.87	2	2	0	1800	1800	0
3/24/2024 11:57	20403	ASHF_T2	0	4	4	0	0.25	0.25	-0.58	-0.6	0	0	0	0	0	0
3/24/2024 11:57	14404	SSLA_T1	1	1	0	3.4	3.3	-0.1	0	0	0	0	0	0	0	0
3/24/2024 11:57	60101	COCA_T1	2	1	-1	0.5	0.5	0	0.28	0.28	0	0	0	0	0	0
3/24/2024 11:57	41801	GOCI_T2	25	32	7	0.28	0.32	0.04	0	0	0	0	0	0	0	0
3/24/2024 11:57	14403	SSLA_T1	0	2	2	0	0.7	0.7	0.6	0.59	0	0	0	0	0	0
3/24/2024 11:58	45501	DERR_T2	2	2	0	0.15	0.5	0.35	-0.77	-0.87	2	2	0	1800	1800	0
3/24/2024 11:58	41801	GOCI_T2	25	32	7	0.28	0.32	0.04	0	0	0	0	0	0	0	0
3/24/2024 11:58	46001	BERW_T1	1	1	0	0.3	0.3	0	0.62	0.63	0	0	0	0	0	0
3/24/2024 11:58	46005	BERW_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
3/24/2024 11:59	25402	LAHA_T2	190	164	-26	0.51	0.42	-0.09	-0.65	-0.61	0	0	0	0	0	0
3/24/2024 11:59	10801	CHHI_T1	2	5	3	1.1	1	-0.1	-0.93	-0.92	1	1	0	900	900	0
3/24/2024 11:59	45501	DERR_T2	2	2	0	0.15	0.5	0.35	-0.77	-0.87	2	2	0	1800	1800	0
3/24/2024 11:59	51603	DUKE_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
3/24/2024 12:00	64203	KINZ_T1	13	15	2	0.3	0.3	0	0.08	0.08	0	0	0	0	0	0
3/24/2024 12:00	14404	SSLA_T1	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0	0
3/24/2024 12:00	14403	SSLA_T1	1	2	1	0.7	1.1	0.4	0.6	0.59	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/24/2024 12:00	64201	KINZ_T1	12	11	-1	0.41	0.41	0	0	0	0	0	0	0	0	0
3/24/2024 12:00	64204	KINZ_T1	21	17	-4	0.28	0.31	0.03	0	0	0	0	0	0	0	0
3/24/2024 12:00	64202	KINZ_T1	18	19	1	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
3/24/2024 12:00	41801	GOCI_T2	30	22	-8	0.32	0.37	0.05	0	0	0	0	0	0	0	0
3/24/2024 12:01	64203	KINZ_T1	13	15	2	0.3	0.3	0	0.08	0.08	0	0	0	0	0	0
3/24/2024 12:01	64202	KINZ_T1	18	19	1	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
3/24/2024 12:01	64201	KINZ_T1	12	11	-1	0.41	0.41	0	0	0	0	0	0	0	0	0
3/24/2024 12:01	64204	KINZ_T1	21	17	-4	0.28	0.31	0.03	0	0	0	0	0	0	0	0
3/24/2024 12:03	64201	KINZ_T1	12	11	-1	0.41	0.41	0	0.45	0.45	1	1	0	300	300	0
3/24/2024 12:03	64202	KINZ_T1	18	19	1	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
3/24/2024 12:03	64204	KINZ_T1	21	17	-4	0.28	0.31	0.03	0	0	0	0	0	0	0	0
3/24/2024 12:03	64203	KINZ_T1	13	15	2	0.3	0.3	0	0	0	0	0	0	0	0	0
3/24/2024 12:04	64201	KINZ_T1	12	11	-1	0.41	0.41	0	0	0	0	0	0	0	0	0
3/24/2024 12:04	64203	KINZ_T1	13	15	2	0.3	0.3	0	0.16	0.16	0	0	0	0	0	0
3/24/2024 12:04	64204	KINZ_T1	21	17	-4	0.28	0.31	0.03	0	0	0	0	0	0	0	0
3/24/2024 12:04	64202	KINZ_T1	18	19	1	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
3/24/2024 12:05	64101	REFR_T1	1	5	4	0.1	0.42	0.32	-0.21	-0.22	0	0	0	0	0	0
3/24/2024 12:07	63804	HEMP_T1	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
3/24/2024 12:07	63803	HEMP_T1	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
3/24/2024 12:07	63801	HEMP_T1	2	4	2	0.6	0.58	-0.02	0	0	0	0	0	0	0	0
3/24/2024 12:07	63802	HEMP_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
3/24/2024 12:09	46001	BERW_T1	1	1	0	0.3	0.3	0	0.63	0.62	0	0	0	0	0	0
3/24/2024 12:09	46005	BERW_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
3/24/2024 12:09	42701	AUGU_T1	2	4	2	0.35	0.38	0.03	0	0	4	4	0	3600	3600	0
3/24/2024 12:10	46001	BERW_T1	1	1	0	0.3	0.3	0	0.63	0.62	0	0	0	0	0	0
3/24/2024 12:10	14403	SSLA_T1	1	2	1	0.7	1.1	0.4	0.59	0.58	0	0	0	0	0	0
3/24/2024 12:10	14404	SSLA_T1	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0	0
3/24/2024 12:10	10801	CHHI_T1	4	5	1	0.85	1	0.15	-1.84	-1.91	2	2	0	1800	1800	0
3/24/2024 12:10	46005	BERW_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
3/24/2024 12:11	45501	DERR_T2	2	1	-1	0.5	0.3	-0.2	-0.87	-0.83	2	2	0	1800	1800	0
3/24/2024 12:11	51603	DUKE_T1	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
3/24/2024 12:13	14404	SSLA_T1	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0	0
3/24/2024 12:13	45501	DERR_T2	2	1	-1	0.5	0.3	-0.2	-0.87	-0.83	2	2	0	1800	1800	0
3/24/2024 12:13	14403	SSLA_T1	1	2	1	0.7	1.1	0.4	0.59	0.58	0	0	0	0	0	0
3/24/2024 12:13	60101	COCA_T1	1	1	0	0.5	0.7	0.2	0.28	0.27	0	0	0	0	0	0
3/24/2024 12:14	25402	LAHA_T2	151	139	-12	0.48	0.51	0.03	-0.61	-0.66	0	0	0	0	0	0
3/24/2024 12:14	45702	LIND_T2	1	1	0	0.7	0.5	-0.2	-0.45	-0.48	0	0	0	0	0	0
3/24/2024 12:15	51603	DUKE_T1	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
3/24/2024 12:15	45501	DERR_T2	1	2	1	0.3	0.4	0.1	-0.87	-0.83	2	2	0	1800	1800	0
3/24/2024 12:15	10801	CHHI_T1	5	5	0	0.74	1	0.26	-0.92	-0.96	1	1	0	900	900	0
3/24/2024 12:26	10801	CHHI_T1	5	5	0	0.74	1	0.26	-0.96	-0.93	1	1	0	900	900	0
3/24/2024 12:28	41801	GOCI_T2	19	23	4	0.36	0.43	0.07	0	0	0	0	0	0	0	0
3/24/2024 12:28	20403	ASHF_T2	4	4	0	0.2	0.53	0.33	-1.17	-1.27	0	0	0	0	0	0
3/24/2024 12:28	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/24/2024 12:30	41801	GOCI_T2	17	56	39	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
3/24/2024 12:31	41801	GOCI_T2	17	56	39	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
3/24/2024 12:31	10801	CHHI_T1	4	5	1	0.88	1	0.12	-0.96	-0.93	1	1	0	900	900	0
3/24/2024 12:41	13904	SEID_T1	5	3	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/24/2024 12:41	13901	SEID_T1	0	0	0	0	0	0	-0.75	-0.76	1	1	0	1200	1200	0
3/24/2024 12:41	13902	SEID_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/24/2024 12:41	13905	SEID_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/24/2024 12:42	14404	SSLA_T1	1	1	0	3.3	3.5	0.2	0	0	0	0	0	0	0	0
3/24/2024 12:42	14403	SSLA_T1	1	1	0	1.1	1.2	0.1	0.57	0.55	0	0	0	0	0	0
3/24/2024 12:45	14404	SSLA_T1	1	1	0	3.5	3.5	0	0	0	0	0	0	0	0	0
3/24/2024 12:45	14403	SSLA_T1	1	1	0	0.9	1.2	0.3	0.57	0.55	0	0	0	0	0	0
3/24/2024 12:48	59301	MCAL_T1	47	83	36	0.41	0.68	0.27	0	0	0	0	0	0	0	0
3/24/2024 12:48	59302	MCAL_T1	6	9	3	0.4	0.56	0.16	-0.51	-0.48	1	1	0	600	600	0
3/24/2024 12:51	65801	RTWN_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/24/2024 12:51	45303	WBER_T2	6	8	2	0.33	0.44	0.11	-0.28	-0.32	0	0	0	0	0	0
3/24/2024 12:51	65804	RTWN_T1	2	3	1	0.4	0.93	0.53	-0.31	-0.31	1	1	0	600	600	0
3/24/2024 12:52	65701	RVIL_T1	2	4	2	0.5	0.6	0.1	-1.73	-1.76	0	0	0	0	0	0
3/24/2024 12:52	65703	RVIL_T1	1	7	6	0.6	0.36	-0.24	0	0	0	0	0	0	0	0
3/24/2024 12:53	45303	WBER_T2	6	8	2	0.33	0.44	0.11	-0.28	-0.32	0	0	0	0	0	0
3/24/2024 12:53	41602	CLEV_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/24/2024 12:53	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 12:55	41602	CLEV_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/24/2024 12:55	45303	WBER_T2	6	8	2	0.33	0.44	0.11	-0.32	-0.35	0	0	0	0	0	0
3/24/2024 12:55	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 12:56	41801	GOCI_T2	21	96	75	0.45	0.34	-0.11	0	0	0	0	0	0	0	0
3/24/2024 12:58	40101	HUNT_T2	0	5	5	0	0.54	0.54	-0.59	-0.57	0	0	0	0	0	0
3/24/2024 12:58	41801	GOCI_T2	21	96	75	0.45	0.34	-0.11	0	0	0	0	0	0	0	0
3/24/2024 12:59	40101	HUNT_T2	0	5	5	0	0.54	0.54	-0.59	-0.57	0	0	0	0	0	0
3/24/2024 13:00	41801	GOCI_T2	56	107	51	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
3/24/2024 13:03	40101	HUNT_T2	4	5	1	0.73	0.15	-0.58	-0.59	-0.57	0	0	0	0	0	0
3/24/2024 13:04	58401	MORO_T1	1	2	1	0.2	0.15	-0.05	-1.14	-1.13	1	1	0	600	600	0
3/24/2024 13:04	65701	RVIL_T1	4	4	0	0.53	0.73	0.2	0	0	0	0	0	0	0	0
3/24/2024 13:04	65703	RVIL_T1	2	10	8	0.6	0.52	-0.08	-1.32	-1.33	1	1	0	900	900	0
3/24/2024 13:06	14802	TREI_T2	3	4	1	0.2	0.35	0.15	0.39	0.39	0	0	0	0	0	0
3/24/2024 13:06	65703	RVIL_T1	2	10	8	0.6	0.52	-0.08	-1.32	-1.33	1	1	0	900	900	0
3/24/2024 13:06	65701	RVIL_T1	4	4	0	0.53	0.73	0.2	0	0	0	0	0	0	0	0
3/24/2024 13:07	14802	TREI_T2	3	4	1	0.2	0.35	0.15	0.39	0.39	0	0	0	0	0	0
3/24/2024 13:08	45902	AUBU_T1	1	1	0	1	1.2	0.2	-0.45	-0.54	0	0	0	0	0	0
3/24/2024 13:08	14802	TREI_T2	3	4	1	0.2	0.35	0.15	0.39	0.38	0	0	0	0	0	0
3/24/2024 13:10	20401	ASHF_T2	5	0	-5	0.48	0	-0.48	0	0	0	0	0	0	0	0
3/24/2024 13:10	20402	ASHF_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/24/2024 13:10	20403	ASHF_T2	5	2	-3	0.52	0.25	-0.27	-0.68	-0.73	0	0	0	0	0	0
3/24/2024 13:11	14403	SSLA_T1	1	1	0	1.2	0.4	-0.8	0.58	0.6	0	0	0	0	0	0
3/24/2024 13:11	14404	SSLA_T1	1	1	0	3.5	3.5	0	0	0	0	0	0	0	0	0
3/24/2024 13:11	45902	AUBU_T1	1	1	0	1	1.2	0.2	-0.89	-1.07	0	0	0	0	0	0
3/24/2024 13:11	20402	ASHF_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/24/2024 13:11	20401	ASHF_T2	5	0	-5	0.48	0	-0.48	0	0	0	0	0	0	0	0
3/24/2024 13:11	20403	ASHF_T2	5	2	-3	0.52	0.25	-0.27	-0.68	-0.73	0	0	0	0	0	0
3/24/2024 13:14	14404	SSLA_T1	1	1	0	3.5	3.5	0	0	0	0	0	0	0	0	0
3/24/2024 13:14	14403	SSLA_T1	1	1	0	1.2	0.4	-0.8	0.58	0.6	0	0	0	0	0	0
3/24/2024 13:16	59302	MCAL_T1	9	10	1	0.56	0.66	0.1	0	0	0	0	0	0	0	0
3/24/2024 13:16	59301	MCAL_T1	82	89	7	0.68	0.74	0.06	-1.15	-1.15	0	0	0	0	0	0
3/24/2024 13:23	10801	CHHI_T1	5	5	0	0.96	1.3	0.34	-0.99	-0.94	1	1	0	900	900	0
3/24/2024 13:29	10801	CHHI_T1	5	5	0	0.96	1.3	0.34	-0.99	-0.94	1	1	0	900	900	0
3/24/2024 13:30	40101	HUNT_T2	0	0	0	0	0	0	-1.21	-1.22	0	0	0	0	0	0
3/24/2024 13:35	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
3/24/2024 13:39	60701	BREC_T1	12	113	101	0.63	0.22	-0.41	-1.53	-1.63	3	3	0	1800	1800	0
3/24/2024 13:39	10801	CHHI_T1	5	5	0	1.18	1.3	0.12	-0.94	-0.95	1	1	0	900	900	0
3/24/2024 13:41	41602	CLEV_T1	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
3/24/2024 13:41	41601	CLEV_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/24/2024 13:41	56601	HAMP_T1	5	8	3	0.24	0.16	-0.08	-1.77	-1.91	0	0	0	0	0	0
3/24/2024 13:42	41601	CLEV_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/24/2024 13:42	41602	CLEV_T1	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
3/24/2024 13:43	11804	FRAN_T1	5	8	3	1.22	1.03	-0.19	0	0	0	0	0	0	0	0
3/24/2024 13:43	11805	FRAN_T1	4	9	5	0.63	1.17	0.54	-1.82	-1.72	1	1	0	1200	1200	0
3/24/2024 13:44	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
3/24/2024 13:44	10801	CHHI_T1	5	5	0	1.18	1.3	0.12	-0.94	-0.95	1	1	0	900	900	0
3/24/2024 13:44	41801	GOCI_T2	89	125	36	0.34	0.37	0.03	0	0	0	0	0	0	0	0
3/24/2024 13:45	41801	GOCI_T2	115	108	-7	0.36	0.35	-0.01	0	0	0	0	0	0	0	0
3/24/2024 13:46	64203	KINZ_T1	65	133	68	0.29	0.32	0.03	0	-0.1	0	0	0	0	0	0
3/24/2024 13:46	64204	KINZ_T1	36	74	38	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
3/24/2024 13:46	64201	KINZ_T1	14	25	11	0.51	0.45	-0.06	0	0	0	0	0	0	0	0
3/24/2024 13:46	64202	KINZ_T1	43	58	15	0.32	0.38	0.06	0	0	0	0	0	0	0	0
3/24/2024 13:48	66302	MCGO_T2	3	4	1	0.4	0.93	0.53	-0.82	-0.94	0	0	0	0	0	0
3/24/2024 13:48	41902	REED_T1	2	6	4	0.85	0.57	-0.28	1.87	2.07	0	0	0	0	0	0
3/24/2024 13:48	56601	HAMP_T1	4	7	3	0.23	0.19	-0.04	-1.77	-1.91	0	0	0	0	0	0
3/24/2024 13:48	66303	MCGO_T2	2	4	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
3/24/2024 13:48	41901	REED_T1	7	9	2	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
3/24/2024 13:49	64203	KINZ_T1	65	133	68	0.29	0.32	0.03	0	-0.05	0	0	0	0	0	0
3/24/2024 13:49	64202	KINZ_T1	43	58	15	0.32	0.38	0.06	0	0	0	0	0	0	0	0
3/24/2024 13:49	41902	REED_T1	2	6	4	0.85	0.57	-0.28	1.87	2.07	0	0	0	0	0	0
3/24/2024 13:49	64201	KINZ_T1	14	25	11	0.51	0.45	-0.06	0	0	0	0	0	0	0	0
3/24/2024 13:49	41901	REED_T1	7	9	2	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
3/24/2024 13:49	64204	KINZ_T1	36	74	38	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
3/24/2024 13:50	41902	REED_T1	2	6	4	0.85	0.57	-0.28	0.93	1.03	0	0	0	0	0	0
3/24/2024 13:50	58401	MORO_T1	2	1	-1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/24/2024 13:50	41901	REED_T1	7	9	2	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
3/24/2024 13:50	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
3/24/2024 13:50	58402	MORO_T1	0	0	0	0	0	0	-0.56	-0.57	2	2	0	1500	1500	0
3/24/2024 13:50	45303	WBER_T2	8	9	1	0.43	0.47	0.04	-0.32	-0.33	0	0	0	0	0	0
3/24/2024 13:52	65003	NEFF_T2	3	3	0	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
3/24/2024 13:52	65004	NEFF_T2	1	3	2	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
3/24/2024 13:52	67501	WEWI_T1	2	0	-2	0.3	0	-0.3	-1.6	-0.63	0	0	0	0	0	0
3/24/2024 13:52	65005	NEFF_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/24/2024 13:52	65001	NEFF_T2	143	172	29	0.18	0.17	-0.01	-1.18	-1.32	1	1	0	1200	1200	0
3/24/2024 13:53	45303	WBER_T2	8	9	1	0.43	0.47	0.04	-0.32	-0.33	0	0	0	0	0	0
3/24/2024 13:53	41901	REED_T1	7	9	2	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
3/24/2024 13:53	67501	WEWI_T1	2	0	-2	0.3	0	-0.3	-1.6	-0.63	0	0	0	0	0	0
3/24/2024 13:53	41902	REED_T1	2	6	4	0.85	0.57	-0.28	1.03	0.93	0	0	0	0	0	0
3/24/2024 13:54	13901	SEID_T1	0	0	0	0	0	0	-0.77	-0.76	1	1	0	1200	1200	0
3/24/2024 13:54	13905	SEID_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
3/24/2024 13:54	13904	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 13:54	45303	WBER_T2	8	9	1	0.43	0.47	0.04	-0.33	-0.33	0	0	0	0	0	0
3/24/2024 13:54	13902	SEID_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
3/24/2024 13:55	10801	CHHI_T1	5	5	0	1.3	0.82	-0.48	-0.95	-0.96	1	1	0	900	900	0
3/24/2024 13:55	46005	BERW_T1	1	2	1	0.6	0.65	0.05	0	0	0	0	0	0	0	0
3/24/2024 13:55	46001	BERW_T1	2	3	1	0.3	0.37	0.07	0.58	0.58	0	0	0	0	0	0
3/24/2024 13:58	41801	GOCI_T2	115	108	-7	0.36	0.35	-0.01	0	0	0	0	0	0	0	0
3/24/2024 13:59	46005	BERW_T1	1	2	1	0.6	0.65	0.05	0	0	0	0	0	0	0	0
3/24/2024 13:59	46001	BERW_T1	2	3	1	0.3	0.37	0.07	0.58	0.58	0	0	0	0	0	0
3/24/2024 14:00	10801	CHHI_T1	4	6	2	0.88	0.88	0	-0.95	-0.96	1	1	0	900	900	0
3/24/2024 14:01	40101	HUNT_T2	0	0	0	0	0	0	-0.62	-0.59	0	0	0	0	0	0
3/24/2024 14:01	51401	LYKE_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
3/24/2024 14:01	51402	LYKE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/24/2024 14:02	40101	HUNT_T2	0	0	0	0	0	0	-0.62	-0.59	0	0	0	0	0	0
3/24/2024 14:06	40101	HUNT_T2	0	0	0	0	0	0	-0.62	-0.59	0	0	0	0	0	0
3/24/2024 14:07	44302	BEAV_T2	484	512	28	0.84	0.98	0.14	0.29	0.29	0	0	0	0	0	0
3/24/2024 14:07	44301	BEAV_T2	49	50	1	0.58	0.62	0.04	0	0	0	0	0	0	0	0
3/24/2024 14:08	15001	BLMO_T1	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/24/2024 14:08	44301	BEAV_T2	49	50	1	0.58	0.62	0.04	-0.4	-0.44	0	0	0	0	0	0
3/24/2024 14:08	45901	AUBU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/24/2024 14:08	45902	AUBU_T1	4	4	0	0.53	0.68	0.15	-1.15	-1.1	0	0	0	0	0	0
3/24/2024 14:08	44302	BEAV_T2	484	512	28	0.84	0.98	0.14	0	0	0	0	0	0	0	0
3/24/2024 14:09	60201	ATGL_T2	2	1	-1	0.15	0.1	-0.05	0.19	0.11	0	0	0	0	0	0
3/24/2024 14:09	46005	BERW_T1	2	1	-1	0.65	0.7	0.05	0	0	0	0	0	0	0	0
3/24/2024 14:09	45901	AUBU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/24/2024 14:09	46001	BERW_T1	2	5	3	0.3	0.28	-0.02	0.58	0.57	0	0	0	0	0	0
3/24/2024 14:09	44302	BEAV_T2	484	512	28	0.84	0.98	0.14	0.29	0.28	0	0	0	0	0	0
3/24/2024 14:09	45902	AUBU_T1	4	4	0	0.53	0.68	0.15	-1.15	-1.1	0	0	0	0	0	0
3/24/2024 14:09	44301	BEAV_T2	49	50	1	0.58	0.62	0.04	0	0	0	0	0	0	0	0
3/24/2024 14:10	44302	BEAV_T2	484	512	28	0.84	0.98	0.14	0.29	0.28	0	0	0	0	0	0
3/24/2024 14:10	46001	BERW_T1	2	5	3	0.3	0.28	-0.02	0.58	0.57	0	0	0	0	0	0
3/24/2024 14:10	44301	BEAV_T2	49	50	1	0.58	0.62	0.04	0	0	0	0	0	0	0	0
3/24/2024 14:10	46005	BERW_T1	2	1	-1	0.65	0.7	0.05	0	0	0	0	0	0	0	0
3/24/2024 14:10	60201	ATGL_T2	2	1	-1	0.15	0.1	-0.05	0.19	0.11	0	0	0	0	0	0
3/24/2024 14:10	45901	AUBU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/24/2024 14:10	45902	AUBU_T1	4	4	0	0.53	0.68	0.15	-0.58	-0.55	0	0	0	0	0	0
3/24/2024 14:11	45901	AUBU_T1	1	1	0	0.1	0.1	0	1.05	0.98	0	0	0	0	0	0
3/24/2024 14:11	44301	BEAV_T2	49	50	1	0.58	0.62	0.04	0	0	0	0	0	0	0	0
3/24/2024 14:11	44302	BEAV_T2	484	512	28	0.84	0.98	0.14	0.58	0.56	0	0	0	0	0	0
3/24/2024 14:11	10801	CHHI_T1	4	6	2	0.88	0.88	0	-0.96	-1	1	1	0	900	900	0
3/24/2024 14:11	45902	AUBU_T1	4	4	0	0.53	0.68	0.15	-0.58	-0.55	0	0	0	0	0	0
3/24/2024 14:11	15001	BLMO_T1	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/24/2024 14:12	48303	ORWI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/24/2024 14:12	15001	BLMO_T1	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/24/2024 14:12	45901	AUBU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/24/2024 14:12	44301	BEAV_T2	49	50	1	0.58	0.62	0.04	-0.44	-0.44	0	0	0	0	0	0
3/24/2024 14:12	48302	ORWI_T2	2	2	0	1.2	1.35	0.15	0	0	0	0	0	0	0	0
3/24/2024 14:12	40101	HUNT_T2	0	0	0	0	0	0	-0.59	-0.65	0	0	0	0	0	0
3/24/2024 14:12	45501	DERR_T2	2	1	-1	0.15	0.4	0.25	-0.63	-0.62	2	2	0	1800	1800	0
3/24/2024 14:12	45902	AUBU_T1	4	4	0	0.53	0.68	0.15	-1.73	-1.65	0	0	0	0	0	0
3/24/2024 14:12	44302	BEAV_T2	484	512	28	0.84	0.98	0.14	0.29	0.28	0	0	0	0	0	0
3/24/2024 14:13	45501	DERR_T2	2	1	-1	0.15	0.4	0.25	-0.63	-0.62	2	2	0	1800	1800	0
3/24/2024 14:13	20403	ASHF_T2	1	2	1	0.7	0.3	-0.4	-0.73	-0.74	0	0	0	0	0	0
3/24/2024 14:13	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 14:14	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 14:14	20403	ASHF_T2	1	2	1	0.7	0.3	-0.4	-0.73	-0.74	0	0	0	0	0	0
3/24/2024 14:15	64203	KINZ_T1	94	140	46	0.32	0.26	-0.06	-0.05	-0.01	0	0	0	0	0	0
3/24/2024 14:15	64204	KINZ_T1	40	54	14	0.37	0.42	0.05	0	0	0	0	0	0	0	0
3/24/2024 14:15	64202	KINZ_T1	35	50	15	0.38	0.42	0.04	0	0	0	0	0	0	0	0
3/24/2024 14:15	41801	GOCI_T2	78	95	17	0.32	0.33	0.01	0	0	0	0	0	0	0	0
3/24/2024 14:15	64201	KINZ_T1	13	23	10	0.52	0.38	-0.14	0	0	0	0	0	0	0	0
3/24/2024 14:16	41801	GOCI_T2	78	95	17	0.32	0.33	0.01	0	0	0	0	0	0	0	0
3/24/2024 14:16	10801	CHHI_T1	5	7	2	0.8	0.86	0.06	-0.96	-1	1	1	0	900	900	0
3/24/2024 14:17	64202	KINZ_T1	35	50	15	0.38	0.42	0.04	0	0	0	0	0	0	0	0
3/24/2024 14:17	45902	AUBU_T1	3	5	2	0.77	0.5	-0.27	-0.58	-0.55	0	0	0	0	0	0
3/24/2024 14:17	64204	KINZ_T1	40	54	14	0.37	0.42	0.05	0	0	0	0	0	0	0	0
3/24/2024 14:17	40101	HUNT_T2	0	0	0	0	0	0	-1.19	-1.29	0	0	0	0	0	0
3/24/2024 14:17	64201	KINZ_T1	13	23	10	0.52	0.38	-0.14	0	0	0	0	0	0	0	0
3/24/2024 14:17	45901	AUBU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/24/2024 14:17	64203	KINZ_T1	94	140	46	0.32	0.26	-0.06	-0.11	-0.03	0	0	0	0	0	0
3/24/2024 14:19	42801	SELI_T1	2	1	-1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/24/2024 14:19	42802	SELI_T1	2	2	0	0.4	0.3	-0.1	-0.98	-0.96	1	1	0	900	900	0
3/24/2024 14:19	41902	REED_T1	6	4	-2	0.55	0.68	0.13	1.87	1.71	0	0	0	0	0	0
3/24/2024 14:19	41901	REED_T1	8	7	-1	0.21	0.16	-0.05	0	0	0	0	0	0	0	0
3/24/2024 14:20	64204	KINZ_T1	40	54	14	0.37	0.42	0.05	0	0	0	0	0	0	0	0
3/24/2024 14:20	64202	KINZ_T1	35	50	15	0.38	0.42	0.04	0.61	0.63	0	0	0	0	0	0
3/24/2024 14:20	42802	SELI_T1	2	2	0	0.4	0.3	-0.1	-0.98	-0.96	1	1	0	900	900	0
3/24/2024 14:20	42801	SELI_T1	2	1	-1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/24/2024 14:20	47402	PENS_T1	1	4	3	2.1	0.53	-1.57	0	0	0	0	0	0	0	0
3/24/2024 14:20	64203	KINZ_T1	94	140	46	0.32	0.26	-0.06	-0.05	-0.01	0	0	0	0	0	0
3/24/2024 14:20	47401	PENS_T1	15	7	-8	0.59	0.76	0.17	2.08	2.08	0	0	0	0	0	0
3/24/2024 14:20	64201	KINZ_T1	13	23	10	0.52	0.38	-0.14	0	0	0	0	0	0	0	0
3/24/2024 14:20	47403	PENS_T1	10	14	4	0.61	0.46	-0.15	0	0	0	0	0	0	0	0
3/24/2024 14:21	43104	SMIL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/24/2024 14:21	47402	PENS_T1	1	4	3	2.1	0.53	-1.57	0	0	0	0	0	0	0	0
3/24/2024 14:21	43101	SMIL_T2	3	4	1	0.83	0.6	-0.23	-0.88	-0.87	0	0	0	0	0	0
3/24/2024 14:21	10801	CHHI_T1	5	7	2	0.8	0.86	0.06	-0.96	-1	1	1	0	900	900	0
3/24/2024 14:21	47401	PENS_T1	15	7	-8	0.59	0.76	0.17	1.04	1.04	0	0	0	0	0	0
3/24/2024 14:21	40602	PIGR_T1	3	2	-1	0.67	0.45	-0.22	0	0	0	0	0	0	0	0
3/24/2024 14:21	43105	SMIL_T2	2	1	-1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
3/24/2024 14:21	42802	SELI_T1	2	2	0	0.4	0.3	-0.1	-0.98	-0.96	1	1	0	900	900	0
3/24/2024 14:21	40601	PIGR_T1	54	88	34	0.27	0.27	0	0	0	0	0	0	0	0	0
3/24/2024 14:21	40603	PIGR_T1	3	2	-1	0.27	0.35	0.08	-0.69	-0.69	1	1	0	900	900	0
3/24/2024 14:21	65801	RTWN_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/24/2024 14:21	42801	SELI_T1	2	1	-1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/24/2024 14:21	47403	PENS_T1	10	14	4	0.61	0.46	-0.15	0	0	0	0	0	0	0	0
3/24/2024 14:21	65804	RTWN_T1	3	3	0	0.8	0.63	-0.17	-0.33	-0.34	1	1	0	600	600	0
3/24/2024 14:21	43103	SMIL_T2	2	4	2	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
3/24/2024 14:21	43102	SMIL_T2	6	7	1	0.48	0.51	0.03	0	0	0	0	0	0	0	0
3/24/2024 14:22	42801	SELI_T1	2	1	-1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/24/2024 14:22	41902	REED_T1	6	4	-2	0.55	0.68	0.13	0.93	0.85	0	0	0	0	0	0
3/24/2024 14:22	44301	BEAV_T2	47	45	-2	0.59	0.65	0.06	-0.44	-0.44	0	0	0	0	0	0
3/24/2024 14:22	26002	WDAM_T1	5	4	-1	0.72	0.73	0.01	0	0	0	0	0	0	0	0
3/24/2024 14:22	45303	WBER_T2	9	10	1	0.46	0.59	0.13	-0.33	-0.36	0	0	0	0	0	0
3/24/2024 14:22	26001	WDAM_T1	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
3/24/2024 14:22	41901	REED_T1	8	7	-1	0.21	0.16	-0.05	0	0	0	0	0	0	0	0
3/24/2024 14:22	44302	BEAV_T2	487	516	29	0.89	0.96	0.07	0	0	0	0	0	0	0	0
3/24/2024 14:22	42802	SELI_T1	2	2	0	0.4	0.3	-0.1	-0.98	-0.96	1	1	0	900	900	0
3/24/2024 14:23	47403	PENS_T1	10	14	4	0.61	0.46	-0.15	0	0	0	0	0	0	0	0
3/24/2024 14:23	44301	BEAV_T2	47	45	-2	0.59	0.65	0.06	-0.44	-0.44	0	0	0	0	0	0
3/24/2024 14:23	65804	RTWN_T1	3	3	0	0.8	0.63	-0.17	-0.33	-0.34	1	1	0	600	600	0
3/24/2024 14:23	44302	BEAV_T2	487	516	29	0.89	0.96	0.07	0	0	0	0	0	0	0	0
3/24/2024 14:23	47402	PENS_T1	1	4	3	2.1	0.53	-1.57	0	0	0	0	0	0	0	0
3/24/2024 14:23	65801	RTWN_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/24/2024 14:23	47401	PENS_T1	15	7	-8	0.59	0.76	0.17	3.12	3.12	0	0	0	0	0	0
3/24/2024 14:24	26002	WDAM_T1	5	4	-1	0.72	0.73	0.01	0	0	0	0	0	0	0	0
3/24/2024 14:24	26001	WDAM_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
3/24/2024 14:24	47401	PENS_T1	15	7	-8	0.59	0.76	0.17	1.04	1	0	0	0	0	0	0
3/24/2024 14:24	47403	PENS_T1	10	14	4	0.61	0.46	-0.15	0	0	0	0	0	0	0	0
3/24/2024 14:24	45902	AUBU_T1	3	5	2	0.77	0.5	-0.27	-1.65	-1.5	0	0	0	0	0	0
3/24/2024 14:24	45303	WBER_T2	9	10	1	0.46	0.59	0.13	-0.36	-0.36	0	0	0	0	0	0
3/24/2024 14:24	47402	PENS_T1	1	4	3	2.1	0.53	-1.57	0	0	0	0	0	0	0	0
3/24/2024 14:24	45901	AUBU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/24/2024 14:25	60201	ATGL_T2	0	2	2	0	0.25	0.25	0.06	0.03	0	0	0	0	0	0
3/24/2024 14:25	59202	THOM_T1	522	740	218	0.53	0.58	0.05	0	0	0	0	0	0	0	0
3/24/2024 14:25	45902	AUBU_T1	3	5	2	0.77	0.5	-0.27	-0.55	-0.5	0	0	0	0	0	0
3/24/2024 14:25	45901	AUBU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/24/2024 14:25	59201	THOM_T1	48	70	22	0.48	0.51	0.03	0	0	0	0	0	0	0	0
3/24/2024 14:26	60201	ATGL_T2	0	2	2	0	0.25	0.25	0.06	0.03	0	0	0	0	0	0
3/24/2024 14:26	17802	GILB_T1	3	3	0	0.5	1	0.5	0.09	0.08	0	0	0	0	0	0
3/24/2024 14:26	17805	GILB_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
3/24/2024 14:26	17804	GILB_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/24/2024 14:26	45902	AUBU_T1	3	5	2	0.77	0.5	-0.27	-0.55	-0.5	0	0	0	0	0	0
3/24/2024 14:26	11802	FRAN_T1	1	1	0	4.5	4.6	0.1	0	0	0	0	0	0	0	0
3/24/2024 14:26	45303	WBER_T2	9	10	1	0.46	0.59	0.13	-0.36	-0.36	0	0	0	0	0	0
3/24/2024 14:26	11804	FRAN_T1	7	10	3	1.13	0.85	-0.28	0.45	0.44	0	0	0	0	0	0
3/24/2024 14:26	45901	AUBU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/24/2024 14:26	11805	FRAN_T1	9	11	2	1.14	1.05	-0.09	0	0	0	0	0	0	0	0
3/24/2024 14:26	17803	GILB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/24/2024 14:26	60701	BREC_T1	79	38	-41	0.26	0.33	0.07	-1.47	-1.69	3	3	0	1800	1800	0
3/24/2024 14:27	48302	ORWI_T2	2	2	0	1.15	1.35	0.2	0	0	0	0	0	0	0	0
3/24/2024 14:27	45902	AUBU_T1	3	5	2	0.77	0.5	-0.27	-1.1	-1	0	0	0	0	0	0
3/24/2024 14:27	44302	BEAV_T2	487	516	29	0.89	0.96	0.07	0.56	0.6	0	0	0	0	0	0
3/24/2024 14:27	44301	BEAV_T2	47	45	-2	0.59	0.65	0.06	0	0	0	0	0	0	0	0
3/24/2024 14:27	45901	AUBU_T1	1	1	0	0.1	0.1	0	0.98	1.04	0	0	0	0	0	0
3/24/2024 14:27	60701	BREC_T1	79	38	-41	0.26	0.33	0.07	-0.49	-0.56	1	1	0	600	600	0
3/24/2024 14:27	48303	ORWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/24/2024 14:28	17803	GILB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/24/2024 14:28	45901	AUBU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/24/2024 14:28	17804	GILB_T2	1	1	0	0.4	0.6	0.2	-0.56	-0.53	0	0	0	0	0	0
3/24/2024 14:28	20403	ASHF_T2	2	2	0	0.3	0.3	0	-0.74	-0.76	0	0	0	0	0	0
3/24/2024 14:28	20401	ASHF_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/24/2024 14:28	45902	AUBU_T1	3	5	2	0.77	0.5	-0.27	-1.1	-1	0	0	0	0	0	0
3/24/2024 14:28	40101	HUNT_T2	0	0	0	0	0	0	-0.65	-0.6	0	0	0	0	0	0
3/24/2024 14:28	20402	ASHF_T2	1	3	2	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/24/2024 14:28	17802	GILB_T1	3	3	0	0.5	1	0.5	0.18	0.15	0	0	0	0	0	0
3/24/2024 14:29	40101	HUNT_T2	0	0	0	0	0	0	-0.65	-0.6	0	0	0	0	0	0
3/24/2024 14:30	20403	ASHF_T2	2	2	0	0.25	0.3	0.05	-0.74	-0.76	0	0	0	0	0	0
3/24/2024 14:30	20401	ASHF_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/24/2024 14:30	20402	ASHF_T2	0	4	4	0	0.5	0.5	0	0	0	0	0	0	0	0
3/24/2024 14:30	64402	LAND_T2	4	5	1	0.73	0.72	-0.01	-0.71	-0.71	1	1	0	600	600	0
3/24/2024 14:30	64404	LAND_T2	1	8	7	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
3/24/2024 14:31	41801	GOCI_T2	88	113	25	0.32	0.32	0	0	0	0	0	0	0	0	0
3/24/2024 14:31	64305	LINC_T1	4	5	1	0.18	0.3	0.12	0	0	0	0	0	0	0	0
3/24/2024 14:31	40101	HUNT_T2	0	0	0	0	0	0	-0.65	-0.6	0	0	0	0	0	0
3/24/2024 14:31	64303	LINC_T1	1	2	1	0.5	0.65	0.15	-0.24	-0.24	0	0	0	0	0	0
3/24/2024 14:32	40101	HUNT_T2	0	0	0	0	0	0	-1.29	-1.2	0	0	0	0	0	0
3/24/2024 14:32	41902	REED_T1	4	1	-3	0.68	0.5	-0.18	0.85	0.89	0	0	0	0	0	0
3/24/2024 14:32	41801	GOCI_T2	88	113	25	0.32	0.32	0	0	0	0	0	0	0	0	0
3/24/2024 14:32	41901	REED_T1	7	0	-7	0.16	0	-0.16	0	0	0	0	0	0	0	0
3/24/2024 14:33	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/24/2024 14:33	45902	AUBU_T1	4	5	1	0.55	0.52	-0.03	-0.55	-0.5	0	0	0	0	0	0
3/24/2024 14:33	58401	MORO_T1	2	1	-1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
3/24/2024 14:33	58402	MORO_T1	0	0	0	0	0	0	-0.56	-0.58	2	2	0	1500	1500	0
3/24/2024 14:34	47401	PENS_T1	6	7	1	0.78	0.7	-0.08	1.04	1	0	0	0	0	0	0
3/24/2024 14:34	52501	PROG_T1	1	1	0	0.4	0.5	0.1	0.33	0.35	1	1	0	300	300	0
3/24/2024 14:34	51402	LYKE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/24/2024 14:34	47402	PENS_T1	4	4	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
3/24/2024 14:34	47403	PENS_T1	14	11	-3	0.44	0.52	0.08	0	0	0	0	0	0	0	0
3/24/2024 14:34	51401	LYKE_T1	0	1	1	0	0.2	0.2	0.3	0.28	0	0	0	0	0	0
3/24/2024 14:35	41901	REED_T1	7	0	-7	0.16	0	-0.16	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/24/2024 14:35	15704	TANN_T1	0	0	0	0	0	0	-1.07	-1.08	0	0	0	0	0	0
3/24/2024 14:35	58401	MORO_T1	2	1	-1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
3/24/2024 14:35	15703	TANN_T2	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
3/24/2024 14:35	52501	PROG_T1	1	1	0	0.4	0.5	0.1	0.33	0.35	1	1	0	300	300	0
3/24/2024 14:35	41902	REED_T1	4	1	-3	0.68	0.5	-0.18	1.71	1.79	0	0	0	0	0	0
3/24/2024 14:35	58402	MORO_T1	0	0	0	0	0	0	-0.56	-0.58	2	2	0	1500	1500	0
3/24/2024 14:35	15702	TANN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 14:36	52501	PROG_T1	1	1	0	0.4	0.5	0.1	0.33	0.35	1	1	0	300	300	0
3/24/2024 14:36	47402	PENS_T1	4	4	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
3/24/2024 14:36	27502	WEIS_T2	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
3/24/2024 14:36	47403	PENS_T1	14	11	-3	0.44	0.52	0.08	0	0	0	0	0	0	0	0
3/24/2024 14:36	47401	PENS_T1	6	7	1	0.78	0.7	-0.08	3.12	3.01	0	0	0	0	0	0
3/24/2024 14:37	40602	PIGR_T1	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
3/24/2024 14:37	40603	PIGR_T1	1	2	1	0.1	0.35	0.25	-0.69	-0.7	1	1	0	900	900	0
3/24/2024 14:37	40601	PIGR_T1	32	122	90	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
3/24/2024 14:38	47401	PENS_T1	6	7	1	0.78	0.7	-0.08	1.04	1	0	0	0	0	0	0
3/24/2024 14:38	51401	LYKE_T1	0	1	1	0	0.2	0.2	0.56	0.54	0	0	0	0	0	0
3/24/2024 14:38	51402	LYKE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/24/2024 14:38	44301	BEAV_T2	45	41	-4	0.64	0.56	-0.08	-0.44	-0.42	0	0	0	0	0	0
3/24/2024 14:38	15001	BLMO_T1	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
3/24/2024 14:38	45602	WOOL_T1	5	4	-1	0.3	0.3	0	0.43	0.43	0	0	0	0	0	0
3/24/2024 14:38	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/24/2024 14:38	47402	PENS_T1	4	4	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
3/24/2024 14:38	45902	AUBU_T1	4	5	1	0.55	0.52	-0.03	-0.5	-0.5	0	0	0	0	0	0
3/24/2024 14:38	52501	PROG_T1	1	1	0	0.4	0.5	0.1	0.35	0.33	1	1	0	300	300	0
3/24/2024 14:38	47403	PENS_T1	14	11	-3	0.44	0.52	0.08	0	0	0	0	0	0	0	0
3/24/2024 14:38	44302	BEAV_T2	505	510	5	0.95	0.91	-0.04	0	0	0	0	0	0	0	0
3/24/2024 14:39	26002	WDAM_T1	4	4	0	0.63	0.73	0.1	0	0	0	0	0	0	0	0
3/24/2024 14:39	15001	BLMO_T1	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
3/24/2024 14:39	26001	WDAM_T1	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
3/24/2024 14:39	45602	WOOL_T1	5	4	-1	0.3	0.3	0	0.43	0.42	0	0	0	0	0	0
3/24/2024 14:39	47403	PENS_T1	14	11	-3	0.44	0.52	0.08	0	0	0	0	0	0	0	0
3/24/2024 14:39	44302	BEAV_T2	505	510	5	0.95	0.91	-0.04	0.9	0.9	0	0	0	0	0	0
3/24/2024 14:39	46001	BERW_T1	5	3	-2	0.22	0.43	0.21	0.6	0.6	0	0	0	0	0	0
3/24/2024 14:39	44301	BEAV_T2	45	41	-4	0.64	0.56	-0.08	-0.42	-0.43	0	0	0	0	0	0
3/24/2024 14:39	47401	PENS_T1	6	7	1	0.78	0.7	-0.08	3.01	3.12	0	0	0	0	0	0
3/24/2024 14:39	46005	BERW_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/24/2024 14:39	47402	PENS_T1	4	4	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
3/24/2024 14:40	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/24/2024 14:40	45902	AUBU_T1	4	5	1	0.55	0.52	-0.03	-2	-2	0	0	0	0	0	0
3/24/2024 14:41	45602	WOOL_T1	5	4	-1	0.3	0.3	0	0.43	0.42	0	0	0	0	0	0
3/24/2024 14:41	46001	BERW_T1	5	3	-2	0.22	0.43	0.21	0.6	0.6	0	0	0	0	0	0
3/24/2024 14:41	17802	GILB_T1	2	4	2	0.8	0.8	0	0.08	0.08	0	0	0	0	0	0
3/24/2024 14:41	46005	BERW_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/24/2024 14:41	59202	THOM_T1	687	793	106	0.55	0.59	0.04	0	0	0	0	0	0	0	0
3/24/2024 14:41	60201	ATGL_T2	1	2	1	0.1	0.35	0.25	0.07	0.26	0	0	0	0	0	0
3/24/2024 14:41	59201	THOM_T1	48	75	27	0.59	0.52	-0.07	0	0	0	0	0	0	0	0
3/24/2024 14:42	44301	BEAV_T2	45	41	-4	0.64	0.56	-0.08	0	0	0	0	0	0	0	0
3/24/2024 14:42	11802	FRAN_T1	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0	0
3/24/2024 14:42	10801	CHHI_T1	6	7	1	0.88	0.79	-0.09	-1.93	-1.99	2	2	0	1800	1800	0
3/24/2024 14:42	46005	BERW_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/24/2024 14:42	44302	BEAV_T2	505	510	5	0.95	0.91	-0.04	0.3	0.3	0	0	0	0	0	0
3/24/2024 14:42	45902	AUBU_T1	4	5	1	0.55	0.52	-0.03	-0.5	-0.5	0	0	0	0	0	0
3/24/2024 14:42	11804	FRAN_T1	7	10	3	1.04	0.85	-0.19	0.44	0.42	0	0	0	0	0	0
3/24/2024 14:42	11805	FRAN_T1	9	7	-2	1.26	0.47	-0.79	0	0	0	0	0	0	0	0
3/24/2024 14:42	46001	BERW_T1	5	3	-2	0.22	0.43	0.21	0.6	0.6	0	0	0	0	0	0
3/24/2024 14:42	41801	GOCI_T2	88	113	25	0.32	0.32	0	0	0	0	0	0	0	0	0
3/24/2024 14:42	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	1.04	1.02	0	0	0	0	0	0
3/24/2024 14:42	15001	BLMO_T1	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
3/24/2024 14:43	40101	HUNT_T2	0	0	0	0	0	0	-1.2	-1.24	0	0	0	0	0	0
3/24/2024 14:43	17802	GILB_T1	2	4	2	0.8	0.8	0	0.08	0.08	0	0	0	0	0	0
3/24/2024 14:43	45602	WOOL_T1	5	4	-1	0.3	0.3	0	0.43	0.42	0	0	0	0	0	0
3/24/2024 14:43	46005	BERW_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/24/2024 14:43	44302	BEAV_T2	505	510	5	0.95	0.91	-0.04	0.3	0.3	0	0	0	0	0	0
3/24/2024 14:43	46001	BERW_T1	5	3	-2	0.22	0.43	0.21	0.6	0.6	0	0	0	0	0	0
3/24/2024 14:43	44301	BEAV_T2	45	41	-4	0.64	0.56	-0.08	0	0	0	0	0	0	0	0
3/24/2024 14:44	45902	AUBU_T1	4	5	1	0.55	0.52	-0.03	-1	-1	0	0	0	0	0	0
3/24/2024 14:44	40101	HUNT_T2	0	0	0	0	0	0	-1.2	-1.24	0	0	0	0	0	0
3/24/2024 14:44	20403	ASHF_T2	2	2	0	0.25	0.3	0.05	-0.76	-0.77	0	0	0	0	0	0
3/24/2024 14:44	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	1.04	1.02	0	0	0	0	0	0
3/24/2024 14:44	20402	ASHF_T2	0	4	4	0	0.5	0.5	0	0	0	0	0	0	0	0
3/24/2024 14:44	20401	ASHF_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/24/2024 14:45	20401	ASHF_T2	2	1	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/24/2024 14:45	20403	ASHF_T2	2	2	0	0.3	0.5	0.2	-0.76	-0.77	0	0	0	0	0	0
3/24/2024 14:45	42903	MIDD_T2	143	157	14	0.94	0.79	-0.15	0	0	0	0	0	0	0	0
3/24/2024 14:45	42901	MIDD_T2	487	517	30	0.68	0.63	-0.05	0	0	0	0	0	0	0	0
3/24/2024 14:45	20402	ASHF_T2	3	4	1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
3/24/2024 14:45	42902	MIDD_T2	254	279	25	0.8	0.74	-0.06	-0.66	-0.67	0	0	0	0	0	0
3/24/2024 14:45	41801	GOCI_T2	83	112	29	0.32	0.32	0	0	0	0	0	0	0	0	0
3/24/2024 14:46	43202	MVIL_T2	1	1	0	0.9	0.4	-0.5	-1.38	-1.34	0	0	0	0	0	0
3/24/2024 14:46	55001	NEWP_T1	5	5	0	0.58	0.64	0.06	0	0	0	0	0	0	0	0
3/24/2024 14:46	64404	LAND_T2	5	8	3	0.5	0.53	0.03	0	0	0	0	0	0	0	0
3/24/2024 14:46	45602	WOOL_T1	4	4	0	0.25	0.35	0.1	0.43	0.42	0	0	0	0	0	0
3/24/2024 14:46	55002	NEWP_T1	12	11	-1	0.96	1.15	0.19	-0.42	-0.38	0	0	0	0	0	0
3/24/2024 14:46	58401	MORO_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
3/24/2024 14:46	43201	MVIL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/24/2024 14:46	41801	GOCI_T2	83	112	29	0.32	0.32	0	0	0	0	0	0	0	0	0
3/24/2024 14:46	64402	LAND_T2	4	5	1	0.85	0.64	-0.21	-0.71	-0.64	1	1	0	600	600	0
3/24/2024 14:46	58402	MORO_T1	0	0	0	0	0	0	-0.58	-0.6	2	2	0	1500	1500	0
3/24/2024 14:47	55001	NEWP_T1	5	5	0	0.58	0.64	0.06	0	0	0	0	0	0	0	0
3/24/2024 14:47	64305	LINC_T1	4	5	1	0.28	0.3	0.02	0	0	0	0	0	0	0	0
3/24/2024 14:47	10801	CHHI_T1	7	6	-1	0.79	0.35	-0.44	-0.97	-0.99	1	1	0	900	900	0
3/24/2024 14:47	64303	LINC_T1	2	2	0	0.5	0.65	0.15	-0.24	-0.25	0	0	0	0	0	0
3/24/2024 14:47	55002	NEWP_T1	12	11	-1	0.96	1.15	0.19	-0.21	-0.19	0	0	0	0	0	0
3/24/2024 14:48	42903	MIDD_T2	143	157	14	0.94	0.79	-0.15	0	0	0	0	0	0	0	0
3/24/2024 14:48	48303	ORWI_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/24/2024 14:48	48302	ORWI_T2	2	2	0	1.25	1.3	0.05	-0.64	-0.55	0	0	0	0	0	0
3/24/2024 14:48	58402	MORO_T1	0	0	0	0	0	0	-0.58	-0.6	2	2	0	1500	1500	0
3/24/2024 14:48	55002	NEWP_T1	12	11	-1	0.96	1.15	0.19	-0.63	-0.57	0	0	0	0	0	0
3/24/2024 14:48	55001	NEWP_T1	5	5	0	0.58	0.64	0.06	0	0	0	0	0	0	0	0
3/24/2024 14:48	42901	MIDD_T2	487	517	30	0.68	0.63	-0.05	0	0	0	0	0	0	0	0
3/24/2024 14:48	17804	GILB_T2	1	3	2	0.6	1.07	0.47	-0.53	-0.55	0	0	0	0	0	0
3/24/2024 14:48	42902	MIDD_T2	254	279	25	0.8	0.74	-0.06	-0.66	-0.67	0	0	0	0	0	0
3/24/2024 14:48	58401	MORO_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
3/24/2024 14:49	42901	MIDD_T2	487	517	30	0.68	0.63	-0.05	0	0	0	0	0	0	0	0
3/24/2024 14:49	42903	MIDD_T2	143	157	14	0.94	0.79	-0.15	0.15	0.17	0	0	0	0	0	0
3/24/2024 14:49	42902	MIDD_T2	254	279	25	0.8	0.74	-0.06	0	0	0	0	0	0	0	0
3/24/2024 14:49	43202	MVIL_T2	1	1	0	0.9	0.4	-0.5	-0.69	-0.67	0	0	0	0	0	0
3/24/2024 14:49	43201	MVIL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/24/2024 14:50	48302	ORWI_T2	2	2	0	1.25	1.3	0.05	-1.27	-1.1	0	0	0	0	0	0
3/24/2024 14:50	65005	NEFF_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/24/2024 14:50	48303	ORWI_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/24/2024 14:50	65003	NEFF_T2	2	4	2	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
3/24/2024 14:50	65001	NEFF_T2	176	167	-9	0.18	0.19	0.01	-1.28	-1.21	1	1	0	1200	1200	0
3/24/2024 14:50	65004	NEFF_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/24/2024 14:51	51003	NHAR_T1	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
3/24/2024 14:51	51006	NHAR_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/24/2024 14:51	51002	NHAR_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
3/24/2024 14:51	45602	WOOL_T1	4	4	0	0.25	0.35	0.1	0.43	0.42	0	0	0	0	0	0
3/24/2024 14:51	51004	NHAR_T1	15	13	-2	1.15	1.23	0.08	-0.4	-0.41	0	0	0	0	0	0
3/24/2024 14:52	42601	TUSC_T1	1	1	0	0.3	0.3	0	-0.51	-0.6	2	2	0	1800	1800	0
3/24/2024 14:52	57403	SPAN_T1	4	8	4	0.58	0.38	-0.2	0.03	0.02	0	0	0	0	0	0
3/24/2024 14:52	60201	ATGL_T2	2	2	0	0.25	0.35	0.1	0.03	0.13	0	0	0	0	0	0
3/24/2024 14:52	67401	WAKE_T2	4	8	4	0.38	0.25	-0.13	-0.94	-0.91	0	0	0	0	0	0
3/24/2024 14:52	57401	SPAN_T1	4	2	-2	0.43	0.25	-0.18	0	0	0	0	0	0	0	0
3/24/2024 14:52	67402	WAKE_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/24/2024 14:53	43102	SMIL_T2	7	7	0	0.51	0.51	0	0	0	0	0	0	0	0	0
3/24/2024 14:53	43101	SMIL_T2	3	3	0	0.37	0.63	0.26	-0.89	-0.87	0	0	0	0	0	0
3/24/2024 14:53	65804	RTWN_T1	3	3	0	0.6	0.67	0.07	-0.31	-0.33	1	1	0	600	600	0
3/24/2024 14:53	43105	SMIL_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/24/2024 14:53	65801	RTWN_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/24/2024 14:53	43103	SMIL_T2	3	2	-1	0.37	1	0.63	0	0	0	0	0	0	0	0
3/24/2024 14:53	43104	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/24/2024 14:54	65801	RTWN_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/24/2024 14:54	42903	MIDD_T2	143	157	14	0.94	0.79	-0.15	0.17	0.13	0	0	0	0	0	0
3/24/2024 14:54	42902	MIDD_T2	254	279	25	0.8	0.74	-0.06	0	0	0	0	0	0	0	0
3/24/2024 14:54	42901	MIDD_T2	487	517	30	0.68	0.63	-0.05	0	0	0	0	0	0	0	0
3/24/2024 14:54	65804	RTWN_T1	3	3	0	0.6	0.67	0.07	-0.33	-0.34	1	1	0	600	600	0
3/24/2024 14:54	45902	AUBU_T1	5	3	-2	0.5	0.7	0.2	-0.5	-0.5	0	0	0	0	0	0
3/24/2024 14:54	45602	WOOL_T1	4	4	0	0.25	0.35	0.1	0.42	0.42	0	0	0	0	0	0
3/24/2024 14:55	57403	SPAN_T1	4	8	4	0.58	0.38	-0.2	0.02	0.05	0	0	0	0	0	0
3/24/2024 14:55	57401	SPAN_T1	4	2	-2	0.43	0.25	-0.18	0	0	0	0	0	0	0	0
3/24/2024 14:56	26001	WDAM_T1	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
3/24/2024 14:56	60201	ATGL_T2	2	2	0	0.25	0.35	0.1	0.13	0.06	0	0	0	0	0	0
3/24/2024 14:56	26002	WDAM_T1	4	4	0	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
3/24/2024 14:57	13905	SEID_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/24/2024 14:57	13901	SEID_T1	0	0	0	0	0	0	-0.77	-0.76	1	1	0	1200	1200	0
3/24/2024 14:57	13904	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 14:57	45602	WOOL_T1	4	4	0	0.25	0.35	0.1	0.42	0.42	0	0	0	0	0	0
3/24/2024 14:58	60801	BUCK_T1	2	3	1	0.25	0.4	0.15	-0.22	-0.21	0	0	0	0	0	0
3/24/2024 14:58	10801	CHHI_T1	7	6	-1	0.79	0.35	-0.44	-0.99	-0.97	1	1	0	900	900	0
3/24/2024 14:59	52403	GRPA_T2	10	15	5	0.53	0.81	0.28	-0.06	-0.05	0	0	0	0	0	0
3/24/2024 14:59	52401	GRPA_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
3/24/2024 14:59	52402	GRPA_T2	5	8	3	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/24/2024 14:59	45602	WOOL_T1	4	4	0	0.25	0.35	0.1	0.42	0.42	0	0	0	0	0	0
3/24/2024 14:59	45902	AUBU_T1	5	3	-2	0.5	0.7	0.2	-0.5	-0.5	0	0	0	0	0	0
3/24/2024 15:00	56601	HAMP_T1	12	26	14	0.17	0.19	0.02	-1.94	-1.93	0	0	0	0	0	0
3/24/2024 15:01	56601	HAMP_T1	12	26	14	0.17	0.19	0.02	-1.94	-1.93	0	0	0	0	0	0
3/24/2024 15:01	64801	MONE_T2	6	6	0	0.42	0.45	0.03	-0.34	-0.35	0	0	0	0	0	0
3/24/2024 15:01	64202	KINZ_T1	78	105	27	0.42	0.49	0.07	0	0	0	0	0	0	0	0
3/24/2024 15:01	64802	MONE_T2	2	3	1	0.7	0.43	-0.27	0	0	0	0	0	0	0	0
3/24/2024 15:01	64203	KINZ_T1	329	551	222	0.27	0.34	0.07	0	0	0	0	0	0	0	0
3/24/2024 15:01	64204	KINZ_T1	82	210	128	0.38	0.32	-0.06	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/24/2024 15:01	64201	KINZ_T1	63	95	32	0.3	0.38	0.08	0.72	0.83	0	0	0	0	0	0
3/24/2024 15:02	64202	KINZ_T1	78	105	27	0.42	0.49	0.07	0.58	0.65	0	0	0	0	0	0
3/24/2024 15:02	64201	KINZ_T1	63	95	32	0.3	0.38	0.08	0	0	0	0	0	0	0	0
3/24/2024 15:02	64203	KINZ_T1	329	551	222	0.27	0.34	0.07	-0.1	-0.14	0	0	0	0	0	0
3/24/2024 15:02	64204	KINZ_T1	82	210	128	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
3/24/2024 15:03	10801	CHHI_T1	5	6	1	0.3	0.42	0.12	-0.99	-0.97	1	1	0	900	900	0
3/24/2024 15:03	59402	RFLD_T2	9	10	1	0.46	0.42	-0.04	-0.92	-0.89	1	1	0	450	450	0
3/24/2024 15:04	64203	KINZ_T1	329	551	222	0.27	0.34	0.07	-0.05	-0.07	0	0	0	0	0	0
3/24/2024 15:04	64201	KINZ_T1	63	95	32	0.3	0.38	0.08	0	0	0	0	0	0	0	0
3/24/2024 15:04	59402	RFLD_T2	9	10	1	0.46	0.42	-0.04	-0.92	-0.89	1	1	0	450	450	0
3/24/2024 15:04	64204	KINZ_T1	82	210	128	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
3/24/2024 15:04	64202	KINZ_T1	78	105	27	0.42	0.49	0.07	0	0	0	0	0	0	0	0
3/24/2024 15:05	64202	KINZ_T1	78	105	27	0.42	0.49	0.07	0	0	0	0	0	0	0	0
3/24/2024 15:05	64204	KINZ_T1	82	210	128	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
3/24/2024 15:05	64101	REFR_T1	6	9	3	0.57	0.41	-0.16	-0.28	-0.28	0	0	0	0	0	0
3/24/2024 15:05	64201	KINZ_T1	63	95	32	0.3	0.38	0.08	0	0	0	0	0	0	0	0
3/24/2024 15:05	64203	KINZ_T1	329	551	222	0.27	0.34	0.07	-0.05	-0.07	0	0	0	0	0	0
3/24/2024 15:06	12505	MITR_T2	2	2	0	0.55	0.25	-0.3	0.25	0.22	0	0	0	0	0	0
3/24/2024 15:06	12502	MITR_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
3/24/2024 15:06	59402	RFLD_T2	9	10	1	0.46	0.42	-0.04	-0.92	-0.89	1	1	0	450	450	0
3/24/2024 15:07	64101	REFR_T1	6	9	3	0.57	0.41	-0.16	-0.28	-0.28	0	0	0	0	0	0
3/24/2024 15:07	59402	RFLD_T2	9	10	1	0.46	0.42	-0.04	-0.92	-0.89	1	1	0	450	450	0
3/24/2024 15:08	44302	BEAV_T2	36	34	-2	0.52	0.65	0.13	0	0	0	0	0	0	0	0
3/24/2024 15:08	16302	ALPA_T2	0	0	0	0	0	0	1.47	1.56	0	0	0	0	0	0
3/24/2024 15:08	44302	BEAV_T2	495	511	16	0.86	0.96	0.1	0.3	0.28	0	0	0	0	0	0
3/24/2024 15:08	10801	CHHI_T1	5	6	1	0.3	0.42	0.12	-0.97	-1.01	1	1	0	900	900	0
3/24/2024 15:09	44301	BEAV_T2	36	34	-2	0.52	0.65	0.13	0	0	0	0	0	0	0	0
3/24/2024 15:09	44302	BEAV_T2	495	511	16	0.86	0.96	0.1	0.28	0.29	0	0	0	0	0	0
3/24/2024 15:10	41602	CLEV_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
3/24/2024 15:10	45902	AUBU_T1	3	3	0	0.7	0.53	-0.17	-0.5	-0.52	0	0	0	0	0	0
3/24/2024 15:10	41601	CLEV_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/24/2024 15:11	41601	CLEV_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/24/2024 15:11	24901	WHHA_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/24/2024 15:11	24902	WHHA_T1	0	0	0	0	0	0	0.41	0.47	0	0	0	0	0	0
3/24/2024 15:11	41602	CLEV_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
3/24/2024 15:12	46004	BERW_T2	0	2	2	0	0.25	0.25	-0.84	-0.86	0	0	0	0	0	0
3/24/2024 15:12	16302	ALPA_T2	0	0	0	0	0	0	0.49	0.52	0	0	0	0	0	0
3/24/2024 15:13	10801	CHHI_T1	5	6	1	0.3	0.42	0.12	-0.97	-1.01	1	1	0	900	900	0
3/24/2024 15:14	17804	GILB_T2	3	3	0	0.97	0.75	-0.22	0	0	0	0	0	0	0	0
3/24/2024 15:14	17805	GILB_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
3/24/2024 15:14	17803	GILB_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/24/2024 15:15	17803	GILB_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
3/24/2024 15:15	17804	GILB_T2	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
3/24/2024 15:15	17805	GILB_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
3/24/2024 15:15	41601	CLEV_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/24/2024 15:15	41602	CLEV_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/24/2024 15:15	45902	AUBU_T1	3	1	-2	0.53	1.2	0.67	-0.5	-0.52	0	0	0	0	0	0
3/24/2024 15:18	44202	POIN_T2	1	1	0	1	1	0	-2.01	-2.01	2	2	0	2400	2400	0
3/24/2024 15:19	44202	POIN_T2	1	1	0	1	1	0	-1	-1.01	1	1	0	1200	1200	0
3/24/2024 15:19	17805	GILB_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
3/24/2024 15:19	17804	GILB_T2	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
3/24/2024 15:19	17803	GILB_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
3/24/2024 15:22	44202	POIN_T2	1	1	0	1	1	0	-1	-1.01	1	1	0	1200	1200	0
3/24/2024 15:23	17002	RIRO_T2	4	2	-2	0.7	1.05	0.35	0.33	0.38	0	0	0	0	0	0
3/24/2024 15:25	44302	BEAV_T2	479	523	44	0.88	1.03	0.15	0.29	0.26	0	0	0	0	0	0
3/24/2024 15:25	44301	BEAV_T2	32	40	8	0.59	0.67	0.08	0	0	0	0	0	0	0	0
3/24/2024 15:26	45902	AUBU_T1	3	1	-2	0.53	1.2	0.67	-0.52	-0.51	0	0	0	0	0	0
3/24/2024 15:30	52401	GRPA_T2	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/24/2024 15:30	52403	GRPA_T2	9	5	-4	0.87	0.45	-0.42	-0.03	-0.03	0	0	0	0	0	0
3/24/2024 15:30	52402	GRPA_T2	6	6	0	1	0.97	-0.03	0	0	0	0	0	0	0	0
3/24/2024 15:31	45902	AUBU_T1	1	3	2	1.2	0.43	-0.77	-0.52	-0.51	0	0	0	0	0	0
3/24/2024 15:31	58401	MORO_T1	1	2	1	0.3	0.25	-0.05	-1.18	-1.19	1	1	0	600	600	0
3/24/2024 15:40	44301	BEAV_T2	34	39	5	0.63	0.7	0.07	0	0	0	0	0	0	0	0
3/24/2024 15:40	10801	CHHI_T1	3	4	1	0.57	0.2	-0.37	-0.99	-1	1	1	0	900	900	0
3/24/2024 15:40	44302	BEAV_T2	500	515	15	0.94	1.06	0.12	0.26	0.29	0	0	0	0	0	0
3/24/2024 15:41	61303	EARL_T1	0	0	0	0	0	0	0.06	0	0	0	0	0	0	0
3/24/2024 15:41	61304	EARL_T1	5	5	0	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
3/24/2024 15:41	45902	AUBU_T1	1	3	2	1.2	0.43	-0.77	-0.51	-0.5	0	0	0	0	0	0
3/24/2024 15:41	61302	EARL_T1	5	5	0	0.66	0.7	0.04	0	0	0	0	0	0	0	0
3/24/2024 15:41	61305	EARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/24/2024 15:42	61302	EARL_T1	5	5	0	0.66	0.7	0.04	0	0	0	0	0	0	0	0
3/24/2024 15:42	61305	EARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/24/2024 15:42	61303	EARL_T1	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
3/24/2024 15:42	61304	EARL_T1	5	5	0	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
3/24/2024 15:43	52001	LING_T1	0	0	0	0	0	0	-1.11	-1.11	0	0	0	0	0	0
3/24/2024 15:44	61302	EARL_T1	5	5	0	0.66	0.7	0.04	0	0	0	0	0	0	0	0
3/24/2024 15:44	61305	EARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/24/2024 15:44	61303	EARL_T1	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
3/24/2024 15:44	61304	EARL_T1	5	5	0	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
3/24/2024 15:45	10801	CHHI_T1	4	2	-2	0.18	0.25	0.07	-0.99	-1	1	1	0	900	900	0
3/24/2024 15:47	45902	AUBU_T1	1	3	2	1	0.47	-0.53	-0.51	-0.5	0	0	0	0	0	0
3/24/2024 15:48	52001	LING_T1	0	0	0	0	0	0	-1.11	-1.11	0	0	0	0	0	0
3/24/2024 15:50	13901	SEID_T1	0	0	0	0	0	0	-0.79	-0.83	1	1	0	1200	1200	0
3/24/2024 15:50	13905	SEID_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/24/2024 15:53	12502	MITR_T2	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
3/24/2024 15:53	12505	MITR_T2	1	0	-1	0.3	0	-0.3	0.21	0.33	0	0	0	0	0	0
3/24/2024 15:54	42701	AUGU_T1	5	4	-1	0.2	0.33	0.13	0	0	2	2	0	1800	1800	0
3/24/2024 15:55	42701	AUGU_T1	5	4	-1	0.2	0.33	0.13	0	0	2	2	0	1800	1800	0
3/24/2024 15:55	56802	BENV_T2	2	2	0	0.55	0.5	-0.05	-1.32	-1.28	0	0	0	0	0	0
3/24/2024 15:56	10801	CHHI_T1	4	2	-2	0.18	0.25	0.07	-1	-1.01	1	1	0	900	900	0
3/24/2024 15:57	45902	AUBU_T1	1	3	2	1	0.47	-0.53	-0.5	-0.49	0	0	0	0	0	0
3/24/2024 15:59	64305	LINC_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/24/2024 15:59	64301	LINC_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
3/24/2024 15:59	64303	LINC_T1	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/24/2024 16:01	10801	CHHI_T1	2	2	0	0.25	0.15	-0.1	-1	-1.01	1	1	0	900	900	0
3/24/2024 16:02	45902	AUBU_T1	3	1	-2	0.4	1.1	0.7	-0.5	-0.49	0	0	0	0	0	0
3/24/2024 16:11	44302	BEAV_T2	495	507	12	1	0.93	-0.07	0	0	0	0	0	0	0	0
3/24/2024 16:11	44301	BEAV_T2	35	34	-1	0.65	0.56	-0.09	-0.45	-0.46	0	0	0	0	0	0
3/24/2024 16:12	45802	HEGI_T2	0	1	1	0	0	0	0.62	0.62	0	0	0	0	0	0
3/24/2024 16:12	10801	CHHI_T1	2	2	0	0.25	0.15	-0.1	-1.01	-1.03	1	1	0	900	900	0
3/24/2024 16:13	45902	AUBU_T1	3	1	-2	0.4	1.1	0.7	-0.49	-0.48	0	0	0	0	0	0
3/24/2024 16:14	45902	HEGI_T2	0	1	1	0	0	0	0.62	0.62	0	0	0	0	0	0
3/24/2024 16:14	44801	EDAN_T2	2	1	-1	1.3	0	-1.3	0.44	0.41	0	0	0	0	0	0
3/24/2024 16:16	10801	CHHI_T1	2	0	-2	0.15	0	-0.15	-1.01	-1.03	1	1	0	900	900	0
3/24/2024 16:18	45902	AUBU_T1	1	1	0	1.1	1	-0.1	-0.49	-0.48	0	0	0	0	0	0
3/24/2024 16:23	45902	AUBU_T1	1	1	0	1.1	1	-0.1	-0.48	-0.5	0	0	0	0	0	0
3/24/2024 16:27	10801	CHHI_T1	2	0	-2	0.15	0	-0.15	-1.03	-1.01	1	1	0	900	900	0
3/24/2024 16:29	53902	HALI_T2	2	2	0	2.95	2.9	-0.05	0	0	0	0	0	0	0	0
3/24/2024 16:29	53901	HALI_T2	8	1	-7	0.21	0.9	0.69	-1.44	-1.44	0	0	0	0	0	0
3/24/2024 16:29	53903	HALI_T2	6	5	-1	0.88	0.82	-0.06	0	0	0	0	0	0	0	0
3/24/2024 16:29	45902	AUBU_T1	1	1	0	1.1	1	-0.1	-0.48	-0.5	0	0	0	0	0	0
3/24/2024 16:31	53903	HALI_T2	5	5	0	0.74	0.78	0.04	0	0	0	0	0	0	0	0
3/24/2024 16:31	53901	HALI_T2	1	0	-1	0.9	0.9	0	-4.33	-4.33	0	0	0	0	0	0
3/24/2024 16:31	53902	HALI_T2	1	2	1	5.6	2.75	-2.85	0	0	0	0	0	0	0	0
3/24/2024 16:32	53901	HALI_T2	1	1	0	0.9	0.9	0	-1.44	-1.44	0	0	0	0	0	0
3/24/2024 16:32	53903	HALI_T2	5	5	0	0.74	0.78	0.04	0	0	0	0	0	0	0	0
3/24/2024 16:32	10801	CHHI_T1	0	0	0	0	0	0	-1.03	-1.01	1	1	0	900	900	0
3/24/2024 16:32	53902	HALI_T2	1	2	1	5.6	2.75	-2.85	0	0	0	0	0	0	0	0
3/24/2024 16:39	45902	AUBU_T1	1	1	0	1	0.7	-0.3	-0.5	-0.52	0	0	0	0	0	0
3/24/2024 16:43	10801	CHHI_T1	0	0	0	0	0	0	-1.01	-1.02	1	1	0	900	900	0
3/24/2024 16:44	45902	AUBU_T1	1	1	0	1	0.7	-0.3	-0.5	-0.52	0	0	0	0	0	0
3/24/2024 16:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 16:48	10801	CHHI_T1	0	1	1	0	0	0	-1.01	-1.02	1	1	0	900	900	0
3/24/2024 16:53	10801	CHHI_T1	0	1	1	0	0	0	-1.02	-1.02	1	1	0	900	900	0
3/24/2024 16:55	45902	AUBU_T1	1	1	0	0.7	0.4	-0.3	-0.52	-0.54	0	0	0	0	0	0
3/24/2024 16:59	10801	CHHI_T1	0	1	1	0	0	0	-1.02	-1.02	1	1	0	900	900	0
3/24/2024 17:00	45902	AUBU_T1	1	0	-1	0.4	0	-0.4	-0.52	-0.54	0	0	0	0	0	0
3/24/2024 17:10	45902	AUBU_T1	1	0	-1	0.4	0	-0.4	-0.54	-0.54	0	0	0	0	0	0
3/24/2024 17:16	45902	AUBU_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
3/24/2024 17:27	45902	AUBU_T1	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
3/24/2024 17:31	45902	AUBU_T1	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
3/24/2024 17:42	45902	AUBU_T1	0	0	0	0	0	0	-0.53	-0.58	0	0	0	0	0	0
3/24/2024 17:47	45902	AUBU_T1	0	0	0	0	0	0	-0.53	-0.58	0	0	0	0	0	0
3/24/2024 18:01	52002	LING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/24/2024 18:01	52004	LING_T2	1	1	0	0.8	0.8	0	0.04	0.08	0	0	0	0	0	0
3/24/2024 18:28	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	0.62	0.64	0	0	0	0	0	0
3/24/2024 20:10	67103	SPRI_T1	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
3/24/2024 20:15	62607	ENGL_T1	1	1	0	1.9	1.6	-0.3	0	0	0	0	0	0	0	0
3/24/2024 20:15	62604	ENGL_T1	0	0	0	0	0	0	-0.87	-0.99	2	2	0	1200	1200	0
3/24/2024 20:16	46801	HEPB_T2	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
3/24/2024 20:17	62607	ENGL_T1	1	1	0	1.9	1.6	-0.3	0	0	0	0	0	0	0	0
3/24/2024 20:17	62604	ENGL_T1	0	0	0	0	0	0	-0.43	-0.49	1	1	0	600	600	0
3/24/2024 20:25	29402	BELT_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
3/24/2024 20:26	52503	PROG_T2	0	0	0	0	0	0	-0.68	-0.68	1	1	0	900	900	0
3/24/2024 20:27	29402	BELT_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
3/24/2024 20:30	27101	GFLD_T2	0	1	1	0	0.7	0.7	0.34	0.32	0	0	0	0	0	0
3/24/2024 20:31	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
3/24/2024 20:31	63804	HEMP_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
3/24/2024 20:33	63804	HEMP_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
3/24/2024 20:33	63802	HEMP_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
3/24/2024 20:40	51603	DUKE_T1	0	0	0	0	0	0	-0.41	-0.37	0	0	0	0	0	0
3/24/2024 20:48	42903	MIDD_T2	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
3/24/2024 20:48	42902	MIDD_T2	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
3/24/2024 21:06	63203	MGTN_T1	0	1	1	0	0.1	0.1	0.42	0.42	0	0	0	0	0	0
3/24/2024 21:08	59402	RFLD_T2	0	0	0	0	0	0	-0.86	-0.86	1	1	0	450	450	0
3/24/2024 21:11	53901	HALI_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/24/2024 21:11	53903	HALI_T2	2	2	0	0.6	0.95	0.35	-0.18	-0.14	0	0	0	0	0	0
3/24/2024 21:11	46206	DANV_T2	1	1	0	2	0	-2	4.25	4.14	2	2	0	2400	2400	0
3/24/2024 21:11	46204	DANV_T2	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
3/24/2024 21:11	46203	DANV_T2	2	2	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/24/2024 21:11	53902	HALI_T2	1	1	0	4.5	5.3	0.8	0	0	0	0	0	0	0	0
3/24/2024 21:14	46203	DANV_T2	2	2	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/24/2024 21:14	46204	DANV_T2	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/24/2024 21:14	46206	DANV_T2	1	1	0	2	0	-2	2.12	2.07	1	1	0	1200	1200	0
3/24/2024 21:18	29401	BELT_T1	0	1	1	0	0	0	0	0	3	3	0	2700	2700	0
3/24/2024 21:18	29402	BELT_T1	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
3/24/2024 21:18	17805	GILB_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
3/24/2024 21:19	17002	RIRO_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
3/24/2024 21:21	29402	BELT_T1	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
3/24/2024 21:21	48302	ORWI_T2	2	2	0	0.5	0.5	0	-0.67	-0.69	0	0	0	0	0	0
3/24/2024 21:21	27502	WEIS_T2	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
3/24/2024 21:21	29401	BELT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 21:21	67204	TEHI_T2	0	0	0	0	0	0	-0.24	-0.28	0	0	0	0	0	0
3/24/2024 21:21	47001	HUGH_T2	0	0	0	0	0	0	-1.74	-1.75	1	1	0	900	900	0
3/24/2024 21:22	61303	EARL_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
3/24/2024 21:22	67204	TEHI_T2	0	0	0	0	0	0	-0.24	-0.28	0	0	0	0	0	0
3/24/2024 21:22	28801	LAKE_T1	494	561	67	0.74	0.77	0.03	0	0	0	0	0	0	0	0
3/24/2024 21:22	28805	LAKE_T1	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
3/24/2024 21:22	17802	GILB_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
3/24/2024 21:23	20403	ASHF_T2	0	0	0	0	0	0	-0.5	-0.48	0	0	0	0	0	0
3/24/2024 21:23	15703	TANN_T2	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
3/24/2024 21:23	66505	SMAN_T2	3	0	-3	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/24/2024 21:23	66504	SMAN_T2	0	0	0	0	0	0	-1.07	-1.12	0	0	0	0	0	0
3/24/2024 21:23	24902	WHHA_T1	9	10	1	0.99	1.47	0.48	0	0	0	0	0	0	0	0
3/24/2024 21:23	45902	AUBU_T1	0	7	7	0	0.17	0.17	0	0	0	0	0	0	0	0
3/24/2024 21:23	15704	TANN_T1	0	0	0	0	0	0	-1.3	-1.31	0	0	0	0	0	0
3/24/2024 21:23	29402	BELT_T1	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
3/24/2024 21:23	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 21:23	13503	MCMI_T2	0	0	0	0	0	0	-0.76	-0.77	0	0	0	0	0	0
3/24/2024 21:23	17802	GILB_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
3/24/2024 21:23	29401	BELT_T1	0	1	1	0	0	0	0	0	2	2	0	1800	1800	0
3/24/2024 21:23	45901	AUBU_T1	0	0	0	0	0	0	1.03	1	0	0	0	0	0	0
3/24/2024 21:23	15702	TANN_T2	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
3/24/2024 21:24	64204	KINZ_T1	1	1	0	0.2	1.1	0.9	0	0	0	0	0	0	0	0
3/24/2024 21:24	28801	LAKE_T1	494	561	67	0.74	0.77	0.03	0	0	0	0	0	0	0	0
3/24/2024 21:24	45902	AUBU_T1	0	7	7	0	0.17	0.17	-2.31	-2.4	2	2	0	1200	1200	0
3/24/2024 21:24	16302	ALPA_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
3/24/2024 21:24	67103	SPRI_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
3/24/2024 21:24	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/24/2024 21:24	16402	MOPO_T1	2	0	-2	0.2	0	-0.2	-0.05	-0.14	0	0	0	0	0	0
3/24/2024 21:24	28805	LAKE_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
3/24/2024 21:24	64201	KINZ_T1	0	1	1	0	0.6	0.6	0.13	0.11	2	2	0	600	600	0
3/24/2024 21:24	48301	ORWI_T1	2	2	0	3.75	3.85	0.1	0	0	0	0	0	0	0	0
3/24/2024 21:24	48302	ORWI_T2	2	2	0	0.5	0.5	0	-0.69	-0.66	0	0	0	0	0	0
3/24/2024 21:24	17805	GILB_T2	0	0	0	0	0	0	-0.05	-0.02	0	0	0	0	0	0
3/24/2025 21:25	56802	BENV_T2	0	0	0	0	0	0	-1.46	-1.52	0	0	0	0	0	0
3/24/2025 21:25	64204	KINZ_T1	1	1	0	0.2	1.1	0.9	0	0	0	0	0	0	0	0
3/24/2025 21:25	17805	GILB_T2	0	0	0	0	0	0	-0.05	-0.02	0	0	0	0	0	0
3/24/2025 21:25	65804	RTWN_T1	0	0	0	0	0	0	-0.31	-0.28	1	1	0	600	600	0
3/24/2025 21:25	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2025 21:25	26001	WDAM_T1	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
3/24/2025 21:25	60201	ATGL_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
3/24/2025 21:25	61303	EARL_T1	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
3/24/2025 21:25	64203	KINZ_T1	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
3/24/2025 21:25	14802	TREI_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
3/24/2025 21:25	53901	HALI_T2	2	3	1	0.3	0.17	-0.13	-2.9	-2.9	0	0	0	0	0	0
3/24/2025 21:25	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
3/24/2025 21:25	14403	SSLA_T1	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
3/24/2025 21:25	64201	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/24/2025 21:25	53903	HALI_T2	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
3/24/2025 21:25	48301	ORWI_T1	2	2	0	3.75	3.85	0.1	0	0	0	0	0	0	0	0
3/24/2025 21:25	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/24/2025 21:25	14404	SSLA_T1	1	1	0	3.4	3.5	0.1	0	0	0	0	0	0	0	0
3/24/2026 21:26	44601	SALE_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
3/24/2026 21:26	40603	PIGR_T1	0	0	0	0	0	0	-0.66	-0.66	1	1	0	900	900	0
3/24/2026 21:26	60701	BREC_T1	0	0	0	0	0	0	-0.55	-0.54	1	1	0	600	600	0
3/24/2026 21:26	45902	AUBU_T1	0	7	7	0	0.17	0.17	-1.16	-1.2	1	1	0	600	600	0
3/24/2026 21:26	39601	LNFD_T1	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/24/2026 21:26	16302	ALPA_T2	0	0	0	0	0	0	1.04	1.02	0	0	0	0	0	0
3/24/2026 21:26	42601	TUSC_T1	14	9	-5	0.47	0.69	0.22	-0.5	-0.53	2	2	0	1800	1800	0
3/24/2026 21:26	13904	SEID_T1	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
3/24/2026 21:26	14802	TREI_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
3/24/2026 21:26	52004	LING_T2	1	1	0	1.3	1.1	-0.2	-0.07	-0.1	0	0	0	0	0	0
3/24/2026 21:26	45901	AUBU_T1	0	0	0	0	0	0	1.03	1	0	0	0	0	0	0
3/24/2026 21:26	29401	BELT_T1	0	1	1	0	0	0	0	0	1	1	0	900	900	0
3/24/2026 21:26	40602	PIGR_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/24/2026 21:26	13901	SEID_T1	0	0	0	0	0	0	-0.75	-0.74	1	1	0	1200	1200	0
3/24/2026 21:26	26001	WDAM_T1	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
3/24/2026 21:26	40101	HUNT_T2	13	13	0	0.28	0.5	0.22	-0.53	-0.52	0	0	0	0	0	0
3/24/2026 21:26	17805	GILB_T2	0	0	0	0	0	0	-0.1	-0.04	0	0	0	0	0	0
3/24/2026 21:26	13503	MCMI_T2	0	0	0	0	0	0	-0.76	-0.77	0	0	0	0	0	0
3/24/2026 21:26	29402	BELT_T1	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
3/24/2027 21:27	48302	ORWI_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/24/2027 21:27	67103	SPRI_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
3/24/2027 21:27	55002	NEWP_T1	5	6	1	0.92	0.92	0	-0.24	-0.24	0	0	0	0	0	0
3/24/2027 21:27	54001	SDLE_T1	1	1	0	0.5	0.6	0.1	0	0	1	1	0	600	600	0
3/24/2027 21:27	65901	SAKR_T2	1	1	0	8.7	8.7	0	-1.5	-1.48	1	1	0	900	900	0
3/24/2027 21:27	51401	LYKE_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
3/24/2027 21:27	29401	BELT_T1	0	1	1	0	0	0	0	0	1	1	0	900	900	0
3/24/2027 21:27	45303	WBER_T2	5	6	1	0.16	0.25	0.09	-0.33	-0.33	0	0	0	0	0	0
3/24/2027 21:27	45902	AUBU_T1	0	7	7	0	0.17	0.17	-2.31	-2.4	2	2	0	1200	1200	0
3/24/2027 21:27	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2027 21:27	29402	BELT_T1	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
3/24/2027 21:27	46001	BERW_T1	1	1	0	0.3	0.2	-0.1	0.62	0.61	0	0	0	0	0	0
3/24/2028 21:28	65901	SAKR_T2	1	1	0	8.7	8.7	0	-1.5	-1.48	1	1	0	900	900	0
3/24/2028 21:28	45501	DERR_T2	0	0	0	0	0	0	-0.42	-0.39	2	2	0	1800	1800	0
3/24/2028 21:28	67605	WARW_T1	1	2	1	0.1	0.1	0	-2.54	-2.56	0	0	0	0	0	0
3/24/2028 21:28	64101	REFR_T1	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
3/24/2028 21:28	13503	MCMI_T2	0	0	0	0	0	0	-0.76	-0.77	0	0	0	0	0	0
3/24/2028 21:28	45602	WOOL_T1	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
3/24/2028 21:28	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2028 21:28	60701	BREC_T1	0	0	0	0	0	0	-0.55	-0.54	1	1	0	600	600	0
3/24/2028 21:28	47403	PENS_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
3/24/2028 21:28	47401	PENS_T1	0	0	0	0	0	0	1.22	1.13	0	0	0	0	0	0
3/24/2028 21:28	45902	AUBU_T1	0	7	7	0	0.17	0.17	-1.16	-1.2	1	1	0	600	600	0
3/24/2029 21:29	53903	HALI_T2	2	2	0	0.85	0.95	0.1	-0.14	-0.14	0	0	0	0	0	0
3/24/2029 21:29	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2029 21:29	57106	SPHI_T2	3	3	0	1.17	1.3	0.13	0	0	0	0	0	0	0	0
3/24/2029 21:29	44302	BEAV_T2	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
3/24/2029 21:29	56802	BENV_T2	0	0	0	0	0	0	-1.46	-1.52	0	0	0	0	0	0
3/24/2029 21:29	47403	PENS_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
3/24/2029 21:29	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
3/24/2029 21:29	43201	MVIL_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
3/24/2029 21:29	59301	MCAL_T1	0	0	0	0	0	0	-1.83	-1.84	1	1	0	600	600	0
3/24/2029 21:29	45902	AUBU_T1	0	7	7	0	0.17	0.17	-1.16	-1.2	1	1	0	600	600	0
3/24/2029 21:29	60803	BUCK_T1	0	0	0	0	0	0	-0.51	-0.53	1	1	0	600	600	0
3/24/2029 21:29	43202	MVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/24/2029 21:29	58003	WCAR_T1	1	1	0	1.7	1.9	0.2	-0.06	-0.06	1	1	0	600	600	0
3/24/2029 21:29	58001	WCAR_T1	3	4	1	0.63	0.73	0.1	0	0	0	0	0	0	0	0
3/24/2029 21:29	57104	SPHI_T2	1	2	1	4.5	1.8	-2.7	0	0	0	0	0	0	0	0
3/24/2029 21:29	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2029 21:29	57101	SPHI_T2	6	6	0	0.57	0.3	-0.27	0	0	0	0	0	0	0	0
3/24/2029 21:29	47401	PENS_T1	0	0	0	0	0	0	0.61	0.57	0	0	0	0	0	0
3/24/2029 21:29	12505	MITR_T2	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
3/24/2029 21:29	57103	SPHI_T2	0	0	0	0	0	0	-0.93	-0.92	1	1	0	600	600	0
3/24/2029 21:29	40602	PIGR_T1	1	1	0	0.4	0.4	0	-1.27	-1.32	2	2	0	1200	1200	0
3/24/2029 21:29	12502	MITR_T2	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
3/24/2029 21:29	65001	NEFF_T2	223	234	11	0.33	0.43	0.1	-1.37	-1.43	1	1	0	1200	1200	0
3/24/2029 21:29	53901	HALI_T2	2	3	1	0.3	0.17	-0.13	-1.45	-1.45	0	0	0	0	0	0
3/24/2030 21:30	42802	SELI_T1	0	0	0	0	0	0	-1.02	-1.08	1	1	0	900	900	0
3/24/2030 21:30	64301	LINC_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
3/24/2030 21:30	59101	WALK_T2	0	0	0	0	0	0	0.94	0.81	2	2	0	1200	1200	0
3/24/2030 21:30	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
3/24/2030 21:30	45702	LIND_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
3/24/2030 21:30	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2030 21:30	60201	ATGL_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
3/24/2030 21:30	55002	NEWP_T1	5	6	1	1	0.88	-0.12	-0.24	-0.24	0	0	0	0	0	0
3/24/2030 21:30	64402	LAND_T2	0	0	0	0	0	0	-0.7	-0.69	1	1	0	600	600	0
3/24/2030 21:30	64201	KINZ_T1	0	1	1	0	0.1	0.1	0.44	0.45	0	0	0	0	0	0
3/24/2030 21:30	60101	COCA_T1	0	0	0	0	0	0	0.21	0.27	0	0	0	0	0	0
3/24/2030 21:30	64201	KINZ_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
3/24/2030 21:30	46001	BERW_T1	1	0	-1	0.2	0	-0.2	0.62	0.61	0	0	0	0	0	0
3/24/2030 21:30	56802	BENV_T2	0	0	0	0	0	0	-2.92	-3.04	0	0	0	0	0	0
3/24/2030 21:30	46004	BERW_T2	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
3/24/2030 21:30	42701	AUGU_T1	1	0	-1	0.3	0	-0.3	0	0	2	2	0	1800	1800	0
3/24/2030 21:30	48302	ORWI_T2	2	2	0	0.5	0.65	0.15	-0.69	-0.66	0	0	0	0	0	0
3/24/2030 21:30	52503	PROG_T2	0	0	0	0	0	0	-0.7	-0.7	1	1	0	900	900	0
3/24/2030 21:30	64204	KINZ_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
3/24/2030 21:30	45303	WBER_T2	6	6	0	0.2	0.32	0.12	-0.33	-0.33	0	0	0	0	0	0
3/24/2030 21:30	45402	WILO_T2	1	1	0	0.4	0	-0.4	-1.65	-1.67	1	1	0	900	900	0
3/24/2030 21:30	64101	REFR_T1	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
3/24/2030 21:30	45902	AUBU_T1	0	13	13	0	0.24	0.24	-1.16	-1.2	1	1	0	600	600	0
3/24/2030 21:30	63602	LETO_T1	0	0	0	0	0	0	-0.5	-0.54	0	0	0	0	0	0
3/24/2030 21:30	57401	SPAN_T1	0	0	0	0	0	0	-1.43	-1.46	1	1	0	600	600	0
3/24/2030 21:30	44601	SALE_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
3/24/2030 21:30	64801	MONE_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
3/24/2031 21:31	42701	AUGU_T1	1	0	-1	0.3	0	-0.3	0	0	2	2	0	1800	1800	0
3/24/2031 21:31	64203	KINZ_T1	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
3/24/2031 21:31	44202	POIN_T2	0	0	0	0	0	0	-0.94	-0.97	1	1	0	1200	1200	0
3/24/2031 21:31	51401	LYKE_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
3/24/2031 21:31	47401	PENS_T1	0	0	0	0	0	0	1.22	1.13	0	0	0	0	0	0
3/24/2031 21:31	44301	BEAV_T2	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
3/24/2031 21:31	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/24/2031 21:31	53903	HALI_T2	2	2	0	0.95	0.8	-0.15	0	0	0	0	0	0	0	0
3/24/2031 21:31	60701	BREC_T1	0	0	0	0	0	0	-0.55	-0.54	1	1	0	600	600	0
3/24/2031 21:31	43202	MVIL_T2	0	0	0	0	0	0	-0.68	-0.63	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/24/2024 21:31	53901	HALI_T2	2	2	0	0.2	0.1	-0.1	-1.45	-1.45	0	0	0	0	0	0
3/24/2024 21:31	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
3/24/2024 21:31	57403	SPAN_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
3/24/2024 21:31	42201	SHEN_T2	0	0	0	0	0	0	-0.12	-0.14	1	1	0	600	600	0
3/24/2024 21:31	47403	PENS_T1	1	1	0	2	2.2	0.2	0	0	0	0	0	0	0	0
3/24/2024 21:31	64204	KINZ_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
3/24/2024 21:31	60201	ATGL_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
3/24/2024 21:31	67401	WAKE_T2	0	0	0	0	0	0	-1.22	-1.13	0	0	0	0	0	0
3/24/2024 21:31	40602	PIGR_T1	1	1	0	0.4	0.3	-0.1	-0.64	-0.66	1	1	0	600	600	0
3/24/2024 21:31	44302	BEAV_T2	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
3/24/2024 21:31	17802	GILB_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
3/24/2024 21:31	55002	NEWP_T1	5	6	1	1	0.88	-0.12	-0.48	-0.48	0	0	0	0	0	0
3/24/2024 21:31	64201	KINZ_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
3/24/2024 21:31	16302	ALPA_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
3/24/2024 21:32	57303	MOAL_T2	1	1	0	7.4	7.1	-0.3	0	0	0	0	0	0	0	0
3/24/2024 21:32	14802	TREI_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
3/24/2024 21:32	58402	MORO_T1	0	0	0	0	0	0	-0.58	-0.56	2	2	0	1500	1500	0
3/24/2024 21:32	40101	HUNT_T2	13	12	-1	0.72	0.6	-0.12	-1.06	-1.04	0	0	0	0	0	0
3/24/2024 21:32	57304	MOAL_T2	0	0	0	0	0	0	-0.21	-0.16	0	0	0	0	0	0
3/24/2024 21:32	44301	BEAV_T2	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
3/24/2024 21:32	55002	NEWP_T1	5	6	1	1	0.88	-0.12	-0.24	-0.24	0	0	0	0	0	0
3/24/2024 21:32	10801	CHHI_T1	0	0	0	0	0	0	-1.54	-1.53	2	2	0	1500	1500	0
3/24/2024 21:32	57401	SPAN_T1	0	0	0	0	0	0	-4.3	-4.38	3	3	0	1800	1800	0
3/24/2024 21:32	43102	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/24/2024 21:32	56802	BENV_T2	0	0	0	0	0	0	-1.46	-1.52	0	0	0	0	0	0
3/24/2024 21:32	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
3/24/2024 21:32	14403	SSLA_T1	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
3/24/2024 21:32	43101	SMIL_T2	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
3/24/2024 21:32	64101	REFR_T1	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
3/24/2024 21:32	46801	HEPB_T2	0	2	2	0	0.2	0.2	1.2	1.18	0	0	0	0	0	0
3/24/2024 21:32	60803	BUCK_T1	0	0	0	0	0	0	-0.51	-0.53	1	1	0	600	600	0
3/24/2024 21:32	14404	SSLA_T1	1	2	1	3.4	3.7	0.3	0	0	0	0	0	0	0	0
3/24/2024 21:32	61303	EARL_T1	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
3/24/2024 21:32	11804	FRAN_T1	0	0	0	0	0	0	0.5	0.46	0	0	0	0	0	0
3/24/2024 21:33	57303	MOAL_T2	1	1	0	7.4	7.1	-0.3	0	0	0	0	0	0	0	0
3/24/2024 21:33	29402	BELT_T1	1	1	0	6.4	6.7	0.3	0	0	0	0	0	0	0	0
3/24/2024 21:33	46702	RENO_T1	56	135	79	0.17	0.34	0.17	-0.16	-0.14	0	0	0	0	0	0
3/24/2024 21:33	58001	WCAR_T1	4	4	0	0.7	0.95	0.25	0	0	0	0	0	0	0	0
3/24/2024 21:33	64201	KINZ_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
3/24/2024 21:33	46203	DANV_T2	0	8	8	0	0.11	0.11	-2.29	-2.23	0	0	0	0	0	0
3/24/2024 21:33	43202	MVIL_T2	0	0	0	0	0	0	-0.68	-0.63	0	0	0	0	0	0
3/24/2024 21:33	46204	DANV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/24/2024 21:33	47401	PENS_T1	0	0	0	0	0	0	1.22	1.13	0	0	0	0	0	0
3/24/2024 21:33	64203	KINZ_T1	0	0	0	0	0	0	-0.18	-0.24	0	0	0	0	0	0
3/24/2024 21:33	67605	WARW_T1	1	2	1	0.1	0.1	0	-1.27	-1.28	0	0	0	0	0	0
3/24/2024 21:33	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 21:33	46701	RENO_T1	75	159	84	0.35	0.43	0.08	0	0	0	0	0	0	0	0
3/24/2024 21:33	46001	BERW_T1	1	0	-1	0.2	0	-0.2	0.62	0.61	0	0	0	0	0	0
3/24/2024 21:33	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/24/2024 21:33	42802	SELI_T1	0	0	0	0	0	0	-2.04	-2.16	2	2	0	1800	1800	0
3/24/2024 21:33	57304	MOAL_T2	0	0	0	0	0	0	-0.21	-0.16	0	0	0	0	0	0
3/24/2024 21:33	65804	RTWN_T1	0	0	0	0	0	0	-0.31	-0.28	1	1	0	600	600	0
3/24/2024 21:33	58003	WCAR_T1	1	1	0	1.8	1.9	0.1	-0.06	-0.06	1	1	0	600	600	0
3/24/2024 21:33	47403	PENS_T1	1	1	0	2	2.2	0.2	0	0	0	0	0	0	0	0
3/24/2024 21:33	44202	POIN_T2	0	0	0	0	0	0	-0.94	-0.97	1	1	0	1200	1200	0
3/24/2024 21:33	29401	BELT_T1	1	0	-1	0.5	0	-0.5	0	0	1	1	0	900	900	0
3/24/2024 21:33	64204	KINZ_T1	1	0	-1	0.6	1.1	0.5	0	0	0	0	0	0	0	0
3/24/2024 21:33	44302	BEAV_T2	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
3/24/2024 21:33	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 21:34	46203	DANV_T2	0	8	8	0	0.11	0.11	-2.29	-2.23	0	0	0	0	0	0
3/24/2024 21:34	61303	EARL_T1	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
3/24/2024 21:34	40902	JESH_T1	0	0	0	0	0	0	-1.03	-0.81	0	0	0	0	0	0
3/24/2024 21:34	59402	RFLD_T2	0	0	0	0	0	0	-0.86	-0.87	1	1	0	450	450	0
3/24/2024 21:34	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 21:34	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
3/24/2024 21:34	53903	HALI_T2	2	2	0	0.95	0.8	-0.15	-0.29	-0.29	0	0	0	0	0	0
3/24/2024 21:34	54001	SDLE_T1	1	3	2	0.4	0.27	-0.13	0	0	1	1	0	600	600	0
3/24/2024 21:34	46204	DANV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/24/2024 21:34	57403	SPAN_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
3/24/2024 21:34	53901	HALI_T2	2	2	0	0.2	0.1	-0.1	-1.45	-1.45	0	0	0	0	0	0
3/24/2024 21:34	52501	PROG_T1	0	0	0	0	0	0	0.3	0.3	1	1	0	300	300	0
3/24/2024 21:34	64303	LINC_T1	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
3/24/2024 21:34	44801	EDAN_T2	4	1	-3	1.48	0	-1.48	0.52	0.5	0	0	0	0	0	0
3/24/2024 21:35	52403	GRPA_T2	2	3	1	0.3	3.03	2.73	0	0	0	0	0	0	0	0
3/24/2024 21:35	44202	POIN_T2	0	0	0	0	0	0	-0.94	-0.97	1	1	0	1200	1200	0
3/24/2024 21:35	46203	DANV_T2	0	8	8	0	0.11	0.11	-2.29	-2.23	0	0	0	0	0	0
3/24/2024 21:35	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 21:35	52402	GRPA_T2	1	1	0	1.6	2.8	1.2	-0.94	-0.92	0	0	0	0	0	0
3/24/2024 21:35	42902	MIDD_T2	0	0	0	0	0	0	-1.48	-1.4	0	0	0	0	0	0
3/24/2024 21:35	20402	ASHF_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
3/24/2024 21:35	20403	ASHF_T2	0	0	0	0	0	0	-0.5	-0.48	0	0	0	0	0	0
3/24/2024 21:35	54001	SDLE_T1	1	3	2	0.4	0.27	-0.13	0	0	1	1	0	600	600	0
3/24/2024 21:35	56601	HAMP_T1	0	0	0	0	0	0	-2.01	-1.91	0	0	0	0	0	0
3/24/2024 21:35	45402	WBLO_T2	1	1	0	0.4	0.4	0	-1.65	-1.67	1	1	0	900	900	0
3/24/2024 21:35	52401	GRPA_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
3/24/2024 21:35	42903	MIDD_T2	2	2	0	0.5	0.75	0.25	0	0	0	0	0	0	0	0
3/24/2024 21:35	46204	DANV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/24/2024 21:35	41902	REED_T1	0	3	3	0	0	0	-0.03	-0.19	0	0	0	0	0	0
3/24/2024 21:35	45501	DERR_T2	0	0	0	0	0	0	-0.42	-0.39	2	2	0	1800	1800	0
3/24/2024 21:36	52501	PROG_T1	0	0	0	0	0	0	0.3	0.3	1	1	0	300	300	0
3/24/2024 21:36	57401	SPAN_T1	0	0	0	0	0	0	-1.43	-1.46	1	1	0	600	600	0
3/24/2024 21:36	52502	PROG_T2	0	0	0	0	0	0	-0.59	-0.62	1	1	0	900	900	0
3/24/2024 21:36	42902	MIDD_T2	0	0	0	0	0	0	-0.74	-0.7	0	0	0	0	0	0
3/24/2024 21:36	43202	MVIL_T2	0	0	0	0	0	0	-0.68	-0.63	0	0	0	0	0	0
3/24/2024 21:36	47401	PENS_T1	0	0	0	0	0	0	0.61	0.57	0	0	0	0	0	0
3/24/2024 21:36	42903	MIDD_T2	2	2	0	0.5	0.75	0.25	0	0	0	0	0	0	0	0
3/24/2024 21:36	44202	POIN_T2	0	0	0	0	0	0	-0.94	-0.97	1	1	0	1200	1200	0
3/24/2024 21:36	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 21:36	60701	BREC_T1	0	0	0	0	0	0	-0.55	-0.54	1	1	0	600	600	0
3/24/2024 21:36	47403	PENS_T1	1	1	0	2	2.2	0.2	0	0	0	0	0	0	0	0
3/24/2024 21:36	45303	WBER_T2	6	6	0	0.2	0.32	0.12	-0.33	-0.33	0	0	0	0	0	0
3/24/2024 21:37	45402	WBLO_T2	1	1	0	0.4	0.4	0	-1.65	-1.67	1	1	0	900	900	0
3/24/2024 21:37	64802	MONE_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
3/24/2024 21:37	56801	BENV_T1	12	14	2	0.88	1.31	0.43	-0.66	-0.71	1	1	0	600	600	0
3/24/2024 21:37	47401	PENS_T1	0	0	0	0	0	0	0.61	0.57	0	0	0	0	0	0
3/24/2024 21:37	46001	BERW_T1	1	0	-1	0.2	0	-0.2	0.62	0.61	0	0	0	0	0	0
3/24/2024 21:37	47403	PENS_T1	1	1	0	2	2.2	0.2	0	0	0	0	0	0	0	0
3/24/2024 21:37	67201	TEHI_T1	0	0	0	0	0	0	-0.12	-0.08	0	0	0	0	0	0
3/24/2024 21:37	52403	GRPA_T2	2	3	1	0.3	3.03	2.73	-0.05	-0.07	0	0	0	0	0	0
3/24/2024 21:37	52402	GRPA_T2	1	1	0	1.6	2.8	1.2	0	0	0	0	0	0	0	0
3/24/2024 21:37	52401	GRPA_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
3/24/2024 21:37	54001	SDLE_T1	1	3	2	0.4	0.27	-0.13	0	0	1	1	0	600	600	0
3/24/2024 21:37	44302	BEAV_T2	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
3/24/2024 21:38	58402	MORO_T1	0	0	0	0	0	0	-0.56	-0.55	2	2	0	1500	1500	0
3/24/2024 21:38	42802	SELI_T1	0	0	0	0	0	0	-1.02	-1.08	1	1	0	900	900	0
3/24/2024 21:38	52501	PROG_T1	0	0	0	0	0	0	0.3	0.33	1	1	0	300	300	0
3/24/2024 21:38	58401	MORO_T1	0	0	0	0	0	0	-1.84	-1.83	2	2	0	1200	1200	0
3/24/2024 21:38	44302	BEAV_T2	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
3/24/2024 21:38	42902	MIDD_T2	0	0	0	0	0	0	-1.48	-1.4	0	0	0	0	0	0
3/24/2024 21:38	40101	HUNT_T2	13	12	-1	0.72	0.6	-0.12	-0.52	-0.51	0	0	0	0	0	0
3/24/2024 21:38	52402	GRPA_T2	1	1	0	1.6	2.8	1.2	-0.92	-0.86	0	0	0	0	0	0
3/24/2024 21:38	52401	GRPA_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
3/24/2024 21:38	52403	GRPA_T2	2	3	1	0.3	3.03	2.73	0	0	0	0	0	0	0	0
3/24/2024 21:38	41902	REED_T1	0	3	3	0	0	0	-0.19	-0.07	0	0	0	0	0	0
3/24/2024 21:38	42903	MIDD_T2	2	2	0	0.5	0.75	0.25	0	0	0	0	0	0	0	0
3/24/2024 21:38	61303	EARL_T1	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
3/24/2024 21:39	42903	MIDD_T2	2	2	0	0.5	0.75	0.25	0	0	0	0	0	0	0	0
3/24/2024 21:39	52401	GRPA_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
3/24/2024 21:39	56601	HAMP_T1	0	0	0	0	0	0	-1.91	-1.98	0	0	0	0	0	0
3/24/2024 21:39	42902	MIDD_T2	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
3/24/2024 21:39	52403	GRPA_T2	2	3	1	0.3	3.03	2.73	-0.07	-0.07	0	0	0	0	0	0
3/24/2024 21:39	52402	GRPA_T2	1	1	0	1.6	2.8	1.2	0	0	0	0	0	0	0	0
3/24/2024 21:39	67402	WAKE_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
3/24/2024 21:39	44301	BEAV_T2	0	0	0	0	0	0	-1.1	-1.09	1	1	0	600	600	0
3/24/2024 21:40	41902	REED_T1	0	3	3	0	0	0	-0.19	-0.07	0	0	0	0	0	0
3/24/2024 21:40	67901	WNHO_T2	66	97	31	0.24	0.27	0.03	-0.72	-0.67	0	0	0	0	0	0
3/24/2024 21:40	59101	WALK_T2	0	0	0	0	0	0	0.41	0.62	1	1	0	600	600	0
3/24/2024 21:42	44302	BEAV_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
3/24/2024 21:43	60801	BUCK_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	600	600	0
3/24/2024 21:47	59402	RFLD_T2	0	0	0	0	0	0	-0.87	-0.88	1	1	0	450	450	0
3/24/2024 21:48	45802	HEGI_T2	0	0	0	0	0	0	0.53	0.7	0	0	0	0	0	0
3/24/2024 21:48	40101	HUNT_T2	3	12	9	0.67	0.27	-0.4	-0.52	-0.51	0	0	0	0	0	0
3/24/2024 21:49	17803	GILB_T2	0	10	10	0	0.14	0.14	0	0	0	0	0	0	0	0
3/24/2024 21:49	17804	GILB_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
3/24/2024 21:49	40101	HUNT_T2	3	12	9	0.67	0.27	-0.4	-0.52	-0.51	0	0	0	0	0	0
3/24/2024 21:49	59402	RFLD_T2	0	0	0	0	0	0	-0.87	-0.88	1	1	0	450	450	0
3/24/2024 21:50	45802	HEGI_T2	0	0	0	0	0	0	0.53	0.7	0	0	0	0	0	0
3/24/2024 21:50	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 21:50	55002	NEWP_T1	6	6	0	0.72	0.93	0.21	-0.24	-0.26	0	0	0	0	0	0
3/24/2024 21:52	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 21:53	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/24/2024 22:39	60101	COCA_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
3/24/2024 22:48	52501	PROG_T1	0	0	0	0	0	0	0.34	0.35	1	1	0	300	300	0
3/25/2024 7:52	60201	ATGL_T2	0	0	0	0	0	0	0.02	-0.02	1	1	0	600	600	0
3/25/2024 7:55	29402	BELT_T1	1	1	0	7.2	6.6	-0.6	0	0	0	0	0	0	0	0
3/25/2024 7:55	29401	BELT_T1	1	1	0	0.1	0.1	0	0	0	1	1	0	900	900	0
3/25/2024 7:56	46203	DANV_T2	0	3	3	0	0.1	0.1	-2.06	-0.84	0	0	0	0	0	0
3/25/2024 7:57	29402	BELT_T1	1	1	0	7.2	6.6	-0.6	0	0	0	0	0	0	0	0
3/25/2024 7:57	45501	DERR_T2	2	0	-2	0.25	0	-0.25	1.05	0.91	2	2	0	1800	1800	0
3/25/2024 7:57	29401	BELT_T1	1	1	0	0.1	0.1	0	0	0	3	3	0	2700	2700	0
3/25/2024 7:57	45502	DERR_T2	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/25/2024 7:58	46203	DANV_T2	0	3	3	0	0.1	0.1	-2.06	-0.84	0	0	0	0	0	0
3/25/2024 8:09	24902	WHHA_T1	15	13	-2	1.17	1.21	0.04	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/25/2024 8:11	29402	BELT_T1	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
3/25/2024 8:11	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	1	1	0	900	900	0
3/25/2024 8:12	29402	BELT_T1	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
3/25/2024 8:12	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	3	3	0	2700	2700	0
3/25/2024 8:13	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/25/2024 8:13	29402	BELT_T1	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
3/25/2024 8:14	40101	HUNT_T2	439	378	-61	1.35	0.93	-0.42	-0.27	-0.29	0	0	0	0	0	0
3/25/2024 8:16	25402	LAHA_T2	8	0	-8	0.74	0	-0.74	-0.74	-0.62	0	0	0	0	0	0
3/25/2024 8:17	48301	ORWI_T1	2	2	0	4.2	4.6	0.4	0	0	0	0	0	0	0	0
3/25/2024 8:23	67103	SPRI_T1	0	0	0	0	0	0	-0.12	-0.09	0	0	0	0	0	0
3/25/2024 8:23	45901	AUBU_T1	0	0	0	0	0	0	1.43	1.44	0	0	0	0	0	0
3/25/2024 8:24	67103	SPRI_T1	0	0	0	0	0	0	-0.09	-0.06	0	0	0	0	0	0
3/25/2024 8:28	52402	GRPA_T2	1	2	1	3.1	1.7	-1.4	0	0	0	0	0	0	0	0
3/25/2024 8:28	52404	GRPA_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
3/25/2024 8:28	52403	GRPA_T2	1	5	4	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/25/2024 8:30	52404	GRPA_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
3/25/2024 8:30	52402	GRPA_T2	1	3	2	3.1	1.43	-1.67	0	0	0	0	0	0	0	0
3/25/2024 8:30	58402	MORO_T1	0	0	0	0	0	0	-1.03	-1	3	3	0	2400	2400	0
3/25/2024 8:30	52403	GRPA_T2	1	9	8	0.4	0.31	-0.09	0	0	0	0	0	0	0	0
3/25/2024 8:32	58402	MORO_T1	0	0	0	0	0	0	-1.03	-1	3	3	0	2400	2400	0
3/25/2024 8:54	53601	DALM_T2	1	2	1	0.8	3.45	2.65	-0.44	-0.52	1	1	0	900	900	0
3/25/2024 9:02	55002	NEWP_T1	12	10	-2	0.76	0.88	0.12	-0.18	-0.17	0	0	0	0	0	0
3/25/2024 9:02	55001	NEWP_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
3/25/2024 9:05	55001	NEWP_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
3/25/2024 9:05	55002	NEWP_T1	12	10	-2	0.76	0.88	0.12	-0.54	-0.51	0	0	0	0	0	0
3/25/2024 9:08	67402	WAKE_T2	0	0	0	0	0	0	0.51	0.49	1	1	0	600	600	0
3/25/2024 9:14	24902	WHHA_T1	11	18	7	1.15	1.28	0.13	0	0	0	0	0	0	0	0
3/25/2024 9:15	13503	MCMI_T2	1	60	59	0.1	0.28	0.18	-0.82	-0.83	0	0	0	0	0	0
3/25/2024 9:19	67103	SPRI_T1	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
3/25/2024 9:22	26001	WDAM_T1	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
3/25/2024 9:22	26002	WDAM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/25/2024 9:23	56802	BENV_T2	11	20	9	0.3	0.2	-0.1	-2.63	-2.62	0	0	0	0	0	0
3/25/2024 9:25	56802	BENV_T2	11	20	9	0.3	0.2	-0.1	-2.63	-2.62	0	0	0	0	0	0
3/25/2024 9:26	10801	CHHI_T1	2	6	4	0.25	0.25	0	-1.17	-1.23	2	2	0	1500	1500	0
3/25/2024 9:26	29402	BELT_T1	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
3/25/2024 9:26	56802	BENV_T2	11	20	9	0.3	0.2	-0.1	-1.31	-1.31	0	0	0	0	0	0
3/25/2024 9:28	41801	GOCI_T2	1	13	12	0.4	0.29	-0.11	0	0	0	0	0	0	0	0
3/25/2024 9:29	20601	GRWO_T2	2	7	5	0.5	0.4	-0.1	0.33	0.29	0	0	0	0	0	0
3/25/2024 9:30	52402	GRPA_T2	6	11	5	0.82	0.76	-0.06	-0.84	-0.86	0	0	0	0	0	0
3/25/2024 9:30	52403	GRPA_T2	6	9	3	0.4	0.64	0.24	0	0	0	0	0	0	0	0
3/25/2024 9:30	52401	GRPA_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
3/25/2024 9:31	52401	GRPA_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
3/25/2024 9:31	52403	GRPA_T2	6	9	3	0.4	0.64	0.24	0.09	0.12	0	0	0	0	0	0
3/25/2024 9:31	52402	GRPA_T2	6	11	5	0.82	0.76	-0.06	-0.84	-0.86	0	0	0	0	0	0
3/25/2024 9:31	10801	CHHI_T1	2	6	4	0.2	0.25	0.05	-1.17	-1.23	2	2	0	1500	1500	0
3/25/2024 9:31	41801	GOCI_T2	4	13	9	0.48	0.31	-0.17	0	0	0	0	0	0	0	0
3/25/2024 9:32	43202	MVIL_T2	2	2	0	0.3	0.45	0.15	-0.51	-0.56	0	0	0	0	0	0
3/25/2024 9:33	43202	MVIL_T2	2	2	0	0.3	0.45	0.15	-0.51	-0.56	0	0	0	0	0	0
3/25/2024 9:33	59301	MCAL_T1	6	47	41	0.48	0.28	-0.2	-1.36	-1.35	1	1	0	600	600	0
3/25/2024 9:33	59302	MCAL_T1	2	3	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/25/2024 9:34	41901	REED_T1	2	3	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/25/2024 9:34	41902	REED_T1	0	0	0	0	0	0	2.34	2.34	0	0	0	0	0	0
3/25/2024 9:35	43202	MVIL_T2	2	2	0	0.3	0.45	0.15	-0.51	-0.56	0	0	0	0	0	0
3/25/2024 9:37	16302	ALPA_T2	2	7	5	0.1	0.3	0.2	-0.45	-0.57	0	0	0	0	0	0
3/25/2024 9:37	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/25/2024 9:37	41901	REED_T1	2	3	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/25/2024 9:37	41902	REED_T1	0	0	0	0	0	0	1.17	1.17	0	0	0	0	0	0
3/25/2024 9:38	29402	BELT_T1	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
3/25/2024 9:39	16302	ALPA_T2	2	7	5	0.1	0.3	0.2	-1.14	-0.93	0	0	0	0	0	0
3/25/2024 9:40	67402	WAKE_T2	0	0	0	0	0	0	0.46	0.49	1	1	0	600	600	0
3/25/2024 9:40	16302	ALPA_T2	2	7	5	0.1	0.3	0.2	-0.57	-0.46	0	0	0	0	0	0
3/25/2024 9:40	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 9:41	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/25/2024 9:43	10801	CHHI_T1	2	6	4	0.2	0.25	0.05	-2.46	-2.43	4	4	0	3000	3000	0
3/25/2024 9:43	13901	SEID_T1	0	0	0	0	0	0	-0.69	-0.71	1	1	0	1200	1200	0
3/25/2024 9:44	48901	FOSP_T2	0	0	0	0	0	0	-0.13	-0.09	1	1	0	600	600	0
3/25/2024 9:45	48901	FOSP_T2	0	0	0	0	0	0	-0.26	-0.18	2	2	0	1200	1200	0
3/25/2024 9:48	10801	CHHI_T1	6	3	-3	0.25	0.2	-0.05	-1.23	-1.22	2	2	0	1500	1500	0
3/25/2024 9:48	13503	MCMI_T2	57	69	12	0.28	0.24	-0.04	-0.83	-0.82	0	0	0	0	0	0
3/25/2024 9:49	46701	RENO_T1	4	4	0	2.45	2.48	0.03	0	0	0	0	0	0	0	0
3/25/2024 9:49	46702	RENO_T1	1	1	0	0.1	0.1	0	-0.14	-0.14	0	0	0	0	0	0
3/25/2024 9:50	66502	SMAN_T2	2	4	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/25/2024 9:50	66504	SMAN_T2	1	1	0	0.1	0.1	0	-0.79	-0.81	0	0	0	0	0	0
3/25/2024 9:50	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/25/2024 9:50	13503	MCMI_T2	57	69	12	0.28	0.24	-0.04	-0.83	-0.82	0	0	0	0	0	0
3/25/2024 9:52	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/25/2024 9:52	20403	ASHF_T2	25	55	30	0.25	0.27	0.02	-0.61	-0.58	0	0	0	0	0	0
3/25/2024 9:53	10801	CHHI_T1	6	3	-3	0.25	0.2	-0.05	-1.22	-0.82	2	2	0	1500	1500	0
3/25/2024 9:54	26001	WDAM_T1	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
3/25/2024 9:55	67402	WAKE_T2	0	0	0	0	0	0	0.49	0.46	1	1	0	600	600	0
3/25/2024 9:55	67401	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/25/2024 9:57	20403	ASHF_T2	25	55	30	0.25	0.27	0.02	-0.58	-0.68	0	0	0	0	0	0
3/25/2024 9:57	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/25/2024 9:58	10801	CHHI_T1	6	3	-3	0.25	0.2	-0.05	-1.22	-0.82	2	1	-1	1500	900	-600
3/25/2024 9:58	40101	HUNT_T2	209	275	66	0.47	0.42	-0.05	-0.23	-0.21	0	0	0	0	0	0
3/25/2024 9:59	28805	LAKE_T1	0	1	1	0	0.1	0.1	-0.21	-0.22	0	0	0	0	0	0
3/25/2024 9:59	28801	LAKE_T1	244	447	203	1.14	0.68	-0.46	0	0	0	0	0	0	0	0
3/25/2024 10:00	28801	LAKE_T1	250	456	206	1	0.82	-0.18	0	0	0	0	0	0	0	0
3/25/2024 10:00	53803	MBRG_T2	3	3	0	0.13	0.17	0.04	0	0	0	0	0	0	0	0
3/25/2024 10:00	62607	ENGL_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/25/2024 10:00	67204	TEHI_T2	0	1	1	0	0.5	0.5	-0.05	-0.04	0	0	0	0	0	0
3/25/2024 10:00	24104	EHAZ_T1	96	38	-58	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
3/25/2024 10:00	43201	MVIL_T2	0	1	1	0	0.5	0.5	-0.37	-0.38	0	0	0	0	0	0
3/25/2024 10:00	13503	MCMI_T2	64	122	58	0.24	0.31	0.07	-1.64	-1.69	0	0	0	0	0	0
3/25/2024 10:00	67605	WARW_T1	13	40	27	0.29	0.49	0.2	0	0	0	0	0	0	0	0
3/25/2024 10:00	57304	MOAL_T2	4	3	-1	0.13	0.17	0.04	-0.76	-0.86	0	0	0	0	0	0
3/25/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
3/25/2024 10:00	46702	RENO_T1	1	0	-1	0.1	0	-0.1	-0.14	-0.12	0	0	0	0	0	0
3/25/2024 10:00	10801	CHHI_T1	3	0	-3	0.2	0	-0.2	-1.22	-0.82	2	1	-1	1500	900	-600
3/25/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
3/25/2024 10:00	53901	HALI_T2	2	2	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
3/25/2024 10:00	40601	PIGR_T1	2	18	16	0.2	0.32	0.12	0	0	0	0	0	0	0	0
3/25/2024 10:00	41901	REED_T1	3	9	6	0.23	0.3	0.07	0	0	0	0	0	0	0	0
3/25/2024 10:00	43202	MVIL_T2	2	12	10	0.45	0.23	-0.22	0	0	0	0	0	0	0	0
3/25/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.7	1.67	0	0	0	0	0	0
3/25/2024 10:00	12505	MITR_T2	0	0	0	0	0	0	1.36	1.53	0	0	0	0	0	0
3/25/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	-0.12	-0.09	1	1	0	600	600	0
3/25/2024 10:00	47101	MARL_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/25/2024 10:00	53902	HALI_T2	1	3	2	6.2	2.37	-3.83	0	0	0	0	0	0	0	0
3/25/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
3/25/2024 10:00	62605	ENGL_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/25/2024 10:00	46004	BERW_T2	0	1	1	0	0.1	0.1	-0.2	-0.17	0	0	0	0	0	0
3/25/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	0.12	0.22	0	0	0	0	0	0
3/25/2024 10:00	40502	CRES_T2	0	14	14	0	0.35	0.35	-0.13	-0.12	0	0	0	0	0	0
3/25/2024 10:00	42902	MIDD_T2	2	5	3	0.35	0.42	0.07	0	0	0	0	0	0	0	0
3/25/2024 10:00	42903	MIDD_T2	2	2	0	0.75	1.05	0.3	0.49	0.42	1	1	0	1200	1200	0
3/25/2024 10:00	41902	REED_T1	0	0	0	0	0	0	3.46	3.42	0	0	0	0	0	0
3/25/2024 10:00	24105	EHAZ_T1	4	4	0	5.25	6.23	0.98	-1.94	-0.63	1	1	0	1200	1200	0
3/25/2024 10:00	46701	RENO_T1	4	2	-2	2.48	5	2.52	0	0	0	0	0	0	0	0
3/25/2024 10:00	67401	WAKE_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/25/2024 10:00	40603	PIGR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/25/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.75	-0.77	3	3	0	2400	2400	0
3/25/2024 10:00	55002	NEWP_T1	8	13	5	1.04	0.94	-0.1	-0.72	-0.64	0	0	0	0	0	0
3/25/2024 10:00	40602	PIGR_T1	1	1	0	0.2	0	-0.2	-1.4	-1.33	3	3	0	1800	1800	0
3/25/2024 10:00	60101	COCA_T1	1	0	-1	0.1	0	-0.1	0.37	0.33	0	0	0	0	0	0
3/25/2024 10:00	24102	EHAZ_T1	2	1	-1	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
3/25/2024 10:00	57403	SPAN_T1	34	42	8	0.36	0.42	0.06	0	0	0	0	0	0	0	0
3/25/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
3/25/2024 10:00	12502	MITR_T2	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
3/25/2024 10:00	57401	SPAN_T1	2	7	5	0.45	0.33	-0.12	-2.33	-2.18	2	2	0	1200	1200	0
3/25/2024 10:00	57303	MOAL_T2	1	1	0	6.9	6.7	-0.2	0	0	0	0	0	0	0	0
3/25/2024 10:00	28805	LAKE_T1	0	4	4	0	0.1	0.1	-0.21	-0.22	0	0	0	0	0	0
3/25/2024 10:00	66302	MCGO_T2	1	0	-1	0.8	0	-0.8	-1.02	-0.91	1	1	0	600	600	0
3/25/2024 10:00	53903	HALI_T2	16	10	-6	0.45	0.67	0.22	-0.15	-0.14	0	0	0	0	0	0
3/25/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
3/25/2024 10:00	45602	WOOL_T1	5	7	2	0.6	0.59	-0.01	0.6	0.58	0	0	0	0	0	0
3/25/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.49	0.46	1	1	0	600	600	0
3/25/2024 10:00	53801	MBRG_T2	12	2	-10	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
3/25/2024 10:00	40504	CRES_T1	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/25/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.28	-0.27	1	1	0	600	600	0
3/25/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/25/2024 10:00	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.39	-0.45	1	1	0	600	600	0
3/25/2024 10:00	55001	NEWP_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
3/25/2024 10:00	40101	HUNT_T2	150	276	126	0.46	0.56	0.1	-0.92	-0.86	0	0	0	0	0	0
3/25/2024 10:00	12501	MITR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/25/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
3/25/2024 10:00	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/25/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	0.04	0.07	0	0	0	0	0	0
3/25/2024 10:06	10801	CHHI_T1	3	0	-3	0.2	0	-0.2	-1.22	-0.82	2	1	-1	1500	900	-600
3/25/2024 10:07	40201	BEGA_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
3/25/2024 10:07	57401	SPAN_T1	2	7	5	0.45	0.33	-0.12	-1.16	-1.09	1	1	0	600	600	0
3/25/2024 10:07	57403	SPAN_T1	34	42	8	0.36	0.42	0.06	0	0	0	0	0	0	0	0
3/25/2024 10:07	67605	WARW_T1	13	40	27	0.29	0.49	0.2	-0.77	-0.8	0	0	0	0	0	0
3/25/2024 10:07	48303	ORWI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/25/2024 10:07	67204	TEHI_T2	0	1	1	0	0.5	0.5	-0.05	-0.04	0	0	0	0	0	0
3/25/2024 10:07	60701	BREC_T1	0	0	0	0	0	0	-0.08	-0.05	1	1	0	600	600	0
3/25/2024 10:07	48302	ORWI_T2	2	2	0	1.55	1.7	0.15	-0.5	-0.49	0	0	0	0	0	0
3/25/2024 10:08	20403	ASHF_T2	55	7	-48	0.27	0.39	0.12	-1.35	-1.34	0	0	0	0	0	0
3/25/2024 10:08	40201	BEGA_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
3/25/2024 10:08	29402	BELT_T1	1	1	0	6.6	6.9	0.3	0	0	0	0	0	0	0	0
3/25/2024 10:08	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/25/2024 10:08	67605	WARW_T1	13	40	27	0.29	0.49	0.2	-0.77	-0.8	0	0	0	0	0	0
3/25/2024 10:08	46203	DANV_T2	35	72	37	0.28	0.35	0.07	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/25/2024 10:08	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/25/2024 10:08	13503	MCMI_T2	64	122	58	0.24	0.31	0.07	-0.84	-0.83	0	0	0	0	0	0
3/25/2024 10:08	46206	DANV_T2	0	0	0	0	0	0	0.75	0.72	1	1	0	1200	1200	0
3/25/2024 10:08	42701	AUGU_T1	1	1	0	0.6	0.5	-0.1	0	0	2	2	0	1800	1800	0
3/25/2024 10:08	45602	WOOL_T1	5	7	2	0.6	0.59	-0.01	0.6	0.58	0	0	0	0	0	0
3/25/2024 10:09	15001	BLMO_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/25/2024 10:09	42701	AUGU_T1	1	1	0	0.6	0.5	-0.1	0	0	2	2	0	1800	1800	0
3/25/2024 10:09	60201	ATGL_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/25/2024 10:09	10801	OHHI_T1	3	0	-3	0.2	0	-0.2	-0.82	-0.71	2	1	-1	1500	900	-600
3/25/2024 10:09	13901	SEID_T1	0	0	0	0	0	0	-0.72	-0.73	1	1	0	1200	1200	0
3/25/2024 10:09	46203	DANV_T2	35	72	37	0.28	0.35	0.07	-0.94	-0.94	0	0	0	0	0	0
3/25/2024 10:10	16302	ALPA_T2	6	6	0	0.22	0.45	0.23	-0.54	-0.56	0	0	0	0	0	0
3/25/2024 10:10	15001	BLMO_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/25/2024 10:10	53501	EVIL_T2	2	2	0	0.4	0.95	0.55	-0.75	-0.89	2	2	0	1200	1200	0
3/25/2024 10:10	24902	WHHA_T1	10	60	50	1.04	1.1	0.06	0	0	0	0	0	0	0	0
3/25/2024 10:10	26001	WDAM_T1	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
3/25/2024 10:11	67605	WARW_T1	13	40	27	0.29	0.49	0.2	-0.8	-0.78	0	0	0	0	0	0
3/25/2024 10:12	52401	GRPA_T2	1	2	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
3/25/2024 10:12	45501	DERR_T2	2	1	-1	0.4	0.2	-0.2	0.8	0.73	2	2	0	1800	1800	0
3/25/2024 10:12	10705	CATA_T2	1	4	3	1	0.6	-0.4	-0.86	-0.87	1	1	0	900	900	0
3/25/2024 10:12	10707	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/25/2024 10:12	52403	GRPA_T2	8	25	17	0.49	0.38	-0.11	0.08	0.03	0	0	0	0	0	0
3/25/2024 10:12	46203	DANV_T2	35	72	37	0.28	0.35	0.07	-0.94	-0.94	0	0	0	0	0	0
3/25/2024 10:12	29402	BELT_T1	1	1	0	6.6	6.9	0.3	0	0	0	0	0	0	0	0
3/25/2024 10:12	52402	GRPA_T2	11	14	3	0.67	0.76	0.09	0	0	0	0	0	0	0	0
3/25/2024 10:12	41801	GOCI_T2	8	28	20	0.38	0.27	-0.11	0	0	0	0	0	0	0	0
3/25/2024 10:12	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/25/2024 10:12	10701	CATA_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/25/2024 10:12	10702	CATA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/25/2024 10:12	24902	WHHA_T1	10	60	50	1.04	1.1	0.06	0	0	0	0	0	0	0	0
3/25/2024 10:13	45501	DERR_T2	2	1	-1	0.4	0.2	-0.2	1.6	1.46	4	4	0	3600	3600	0
3/25/2024 10:13	52402	GRPA_T2	11	14	3	0.67	0.76	0.09	-0.85	-0.87	0	0	0	0	0	0
3/25/2024 10:13	52403	GRPA_T2	8	25	17	0.49	0.38	-0.11	0	0	0	0	0	0	0	0
3/25/2024 10:13	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/25/2024 10:13	53501	EVIL_T2	2	2	0	0.4	0.95	0.55	-1.51	-1.78	4	4	0	2400	2400	0
3/25/2024 10:13	52401	GRPA_T2	1	2	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
3/25/2024 10:13	53601	DALM_T2	1	1	0	0.9	0.9	0	-0.45	-0.51	1	1	0	900	900	0
3/25/2024 10:13	29402	BELT_T1	1	1	0	6.6	6.9	0.3	0	0	0	0	0	0	0	0
3/25/2024 10:14	28805	LAKE_T1	0	4	4	0	0.1	0.1	-0.22	-0.22	0	0	0	0	0	0
3/25/2024 10:14	53501	EVIL_T2	2	2	0	0.4	0.95	0.55	-0.75	-0.89	2	2	0	1200	1200	0
3/25/2024 10:14	28801	LAKE_T1	250	456	206	1	0.82	-0.18	0	0	0	0	0	0	0	0
3/25/2024 10:14	29402	BELT_T1	1	1	0	6.6	6.9	0.3	0	0	0	0	0	0	0	0
3/25/2024 10:15	47001	HUGH_T2	0	0	0	0	0	0	-0.73	-0.71	0	0	0	0	0	0
3/25/2024 10:15	59302	MCAL_T1	1	3	2	0.5	0.5	0	0	0	0	0	0	0	0	0
3/25/2024 10:15	59301	MCAL_T1	8	25	17	0.53	0.31	-0.22	-1.36	-1.35	1	1	0	600	600	0
3/25/2024 10:16	41801	GOCI_T2	8	163	155	0.41	0.34	-0.07	0	0	0	0	0	0	0	0
3/25/2024 10:16	41802	GOCI_T2	0	10	10	0	0.16	0.16	0	0	0	0	0	0	0	0
3/25/2024 10:16	64802	MONE_T2	24	50	26	0.4	0.46	0.06	0.14	0.12	0	0	0	0	0	0
3/25/2024 10:16	64801	MONE_T2	35	61	26	0.34	0.38	0.04	0	0	0	0	0	0	0	0
3/25/2024 10:17	52401	GRPA_T2	1	3	2	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
3/25/2024 10:17	65001	NEFF_T2	5	5	0	0.14	0.16	0.02	-0.49	-0.49	1	1	0	1200	1200	0
3/25/2024 10:17	43202	MVIL_T2	12	5	-7	0.23	0.3	0.07	-0.55	-0.57	0	0	0	0	0	0
3/25/2024 10:17	65003	NEFF_T2	2	4	2	0.3	0.38	0.08	0	0	0	0	0	0	0	0
3/25/2024 10:17	52403	GRPA_T2	11	32	21	0.58	0.37	-0.21	0	0	0	0	0	0	0	0
3/25/2024 10:17	52402	GRPA_T2	11	14	3	0.84	0.8	-0.04	-0.85	-0.87	0	0	0	0	0	0
3/25/2024 10:17	43201	MVIL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/25/2024 10:17	65004	NEFF_T2	2	3	1	0.35	0.47	0.12	0	0	0	0	0	0	0	0
3/25/2024 10:17	65005	NEFF_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/25/2024 10:19	43104	SMIL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/25/2024 10:19	43105	SMIL_T2	2	4	2	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/25/2024 10:19	43101	SMIL_T2	2	2	0	0.75	0.35	-0.4	-0.8	-0.76	0	0	0	0	0	0
3/25/2024 10:19	43103	SMIL_T2	8	13	5	0.28	0.34	0.06	0	0	0	0	0	0	0	0
3/25/2024 10:19	16402	MOPO_T1	3	7	4	0.33	0.83	0.5	0.03	0.15	0	0	0	0	0	0
3/25/2024 10:19	43102	SMIL_T2	3	6	3	0.33	0.35	0.02	0	0	0	0	0	0	0	0
3/25/2024 10:20	57403	SPAN_T1	23	113	90	0.33	0.4	0.07	0.09	0.08	0	0	0	0	0	0
3/25/2024 10:20	64101	REFR_T1	1	4	3	0.8	0.4	-0.4	-0.04	-0.04	0	0	0	0	0	0
3/25/2024 10:20	57401	SPAN_T1	2	10	8	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
3/25/2024 10:20	43201	MVIL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/25/2024 10:20	43202	MVIL_T2	12	5	-7	0.23	0.3	0.07	-1.1	-1.14	0	0	0	0	0	0
3/25/2024 10:21	14801	TREI_T2	72	108	36	0.2	0.22	0.02	0.48	0.44	0	0	0	0	0	0
3/25/2024 10:21	14802	TREI_T2	14	17	3	0.16	0.17	0.01	0	0	0	0	0	0	0	0
3/25/2024 10:22	58003	WCAR_T1	24	53	29	0.25	0.27	0.02	0.78	0.79	0	0	0	0	0	0
3/25/2024 10:22	16302	ALPA_T2	5	8	3	0.22	0.43	0.21	-0.54	-0.56	0	0	0	0	0	0
3/25/2024 10:22	58001	WCAR_T1	5	6	1	0.94	0.87	-0.07	0	0	0	0	0	0	0	0
3/25/2024 10:22	67103	SPRI_T1	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
3/25/2024 10:23	56802	BENV_T2	6	56	50	0.43	0.22	-0.21	-5.2	-5.17	0	0	0	0	0	0
3/25/2024 10:24	56802	BENV_T2	6	56	50	0.43	0.22	-0.21	-1.3	-1.29	0	0	0	0	0	0
3/25/2024 10:24	16302	ALPA_T2	5	8	3	0.22	0.43	0.21	-0.56	-0.6	0	0	0	0	0	0
3/25/2024 10:25	67103	SPRI_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
3/25/2024 10:25	58003	WCAR_T1	24	53	29	0.25	0.27	0.02	0.79	0.78	0	0	0	0	0	0
3/25/2024 10:25	56802	BENV_T2	6	56	50	0.43	0.22	-0.21	-3.9	-3.88	0	0	0	0	0	0
3/25/2024 10:25	58001	WCAR_T1	5	6	1	0.94	0.87	-0.07	0	0	0	0	0	0	0	0
3/25/2024 10:26	56802	BENV_T2	6	56	50	0.43	0.22	-0.21	-1.3	-1.29	0	0	0	0	0	0
3/25/2024 10:26	16302	ALPA_T2	5	8	3	0.22	0.43	0.21	-1.11	-1.2	0	0	0	0	0	0
3/25/2024 10:27	56802	BENV_T2	6	56	50	0.43	0.22	-0.21	-1.3	-1.29	0	0	0	0	0	0
3/25/2024 10:28	56802	BENV_T2	6	56	50	0.43	0.22	-0.21	-3.9	-3.88	0	0	0	0	0	0
3/25/2024 10:28	26401	INOR_T1	1	1	0	0.7	0.9	0.2	0.94	0.92	0	0	0	0	0	0
3/25/2024 10:29	52402	GRPA_T2	11	14	3	0.84	0.8	-0.04	0	0	0	0	0	0	0	0
3/25/2024 10:29	52403	GRPA_T2	11	32	21	0.58	0.37	-0.21	0	0	0	0	0	0	0	0
3/25/2024 10:29	52401	GRPA_T2	1	3	2	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
3/25/2024 10:29	52404	GRPA_T2	0	0	0	0	0	0	0.82	0.67	0	0	0	0	0	0
3/25/2024 10:30	45702	LIND_T2	2	3	1	0.3	0.3	0	-0.36	-0.36	0	0	0	0	0	0
3/25/2024 10:30	42902	MIDD_T2	5	5	0	0.42	0.44	0.02	0	0	0	0	0	0	0	0
3/25/2024 10:30	42903	MIDD_T2	2	2	0	1.05	1.05	0	0.6	0.8	1	1	0	1200	1200	0
3/25/2024 10:31	57403	SPAN_T1	42	143	101	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
3/25/2024 10:31	57401	SPAN_T1	7	13	6	0.33	0.35	0.02	-1.14	-1.15	1	1	0	600	600	0
3/25/2024 10:34	64204	KINZ_T1	2	4	2	0.6	0.58	-0.02	0	0	0	0	0	0	0	0
3/25/2024 10:34	64202	KINZ_T1	4	15	11	0.15	0.21	0.06	0	0	0	0	0	0	0	0
3/25/2024 10:34	48301	ORWI_T1	2	2	0	4.8	4.5	-0.3	0	0	0	0	0	0	0	0
3/25/2024 10:34	64203	KINZ_T1	0	0	0	0	0	0	1.27	1.28	1	1	0	600	600	0
3/25/2024 10:34	64201	KINZ_T1	2	6	4	0.1	0.27	0.17	0	0	0	0	0	0	0	0
3/25/2024 10:37	65004	NEFF_T2	2	4	2	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
3/25/2024 10:37	65005	NEFF_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
3/25/2024 10:37	65003	NEFF_T2	3	4	1	0.27	0.45	0.18	0	0	0	0	0	0	0	0
3/25/2024 10:37	65002	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 10:37	65001	NEFF_T2	2	6	4	0.2	0.18	-0.02	-0.49	-0.52	1	1	0	1200	1200	0
3/25/2024 10:40	46201	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/25/2024 10:40	67401	WAKE_T2	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
3/25/2024 10:40	67402	WAKE_T2	0	1	1	0	0.2	0.2	0.48	0.45	1	1	0	600	600	0
3/25/2024 10:40	45402	WBLO_T2	2	3	1	0.4	0.8	0.4	-0.72	-0.68	0	0	0	0	0	0
3/25/2024 10:40	46203	DANV_T2	33	187	154	0.3	0.74	0.44	-0.98	-1.03	0	0	0	0	0	0
3/25/2024 10:41	45402	WBLO_T2	2	3	1	0.4	0.8	0.4	-0.72	-0.68	0	0	0	0	0	0
3/25/2024 10:41	23901	ERMO_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
3/25/2024 10:42	48901	FOSP_T2	0	0	0	0	0	0	-0.03	-0.05	1	1	0	600	600	0
3/25/2024 10:42	41802	GOCI_T2	0	12	12	0	0.16	0.16	0	0	0	0	0	0	0	0
3/25/2024 10:42	41801	GOCI_T2	28	179	151	0.27	0.34	0.07	0	0	0	0	0	0	0	0
3/25/2024 10:43	17802	GILB_T1	2	2	0	0.45	0.7	0.25	0.22	0.2	0	0	0	0	0	0
3/25/2024 10:44	40902	JESH_T1	0	1	1	0	0.1	0.1	-0.54	-0.49	0	0	0	0	0	0
3/25/2024 10:45	46803	HEPB_T2	2	5	3	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/25/2024 10:45	48901	FOSP_T2	0	0	0	0	0	0	-0.03	-0.05	1	1	0	600	600	0
3/25/2024 10:45	17805	GILB_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/25/2024 10:45	41504	FAIR_T2	0	0	0	0	0	0	-0.79	-0.94	0	0	0	0	0	0
3/25/2024 10:45	17804	GILB_T2	2	2	0	0.45	0.7	0.25	-0.56	-0.57	0	0	0	0	0	0
3/25/2024 10:45	46801	HEPB_T2	2	3	1	1	0.77	-0.23	0.65	0.64	0	0	0	0	0	0
3/25/2024 10:46	17802	GILB_T1	2	1	-1	0.4	1.5	1.1	0.22	0.2	0	0	0	0	0	0
3/25/2024 10:47	25502	MADI_T1	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/25/2024 10:47	25501	MADI_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/25/2024 10:47	25503	MADI_T1	1	1	0	0.4	0.6	0.2	-0.93	-0.82	0	0	0	0	0	0
3/25/2024 10:48	42902	MIDD_T2	5	5	0	0.44	0.42	-0.02	-0.99	-0.25	1	0	-1	600	0	-600
3/25/2024 10:48	42903	MIDD_T2	2	2	0	0.95	1.05	0.1	0	0	0	0	0	0	0	0
3/25/2024 10:48	59301	MCAL_T1	25	42	17	0.31	0.37	0.06	-1.42	-1.42	1	1	0	600	600	0
3/25/2024 10:48	64802	MONE_T2	49	54	5	0.47	0.43	-0.04	0.12	0.16	0	0	0	0	0	0
3/25/2024 10:48	59302	MCAL_T1	3	3	0	0.5	0.9	0.4	-0.09	-0.05	1	1	0	600	600	0
3/25/2024 10:48	64801	MONE_T2	57	82	25	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
3/25/2024 10:49	13501	MCMI_T1	0	0	0	0	0	0	0.15	0.2	0	0	0	0	0	0
3/25/2024 10:49	13502	MCMI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/25/2024 10:50	40603	PIGR_T1	3	3	0	0.33	0.43	0.1	0.34	0.33	0	0	0	0	0	0
3/25/2024 10:50	40602	PIGR_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/25/2024 10:50	64101	REFR_T1	4	4	0	0.4	0.33	-0.07	-0.06	-0.12	0	0	0	0	0	0
3/25/2024 10:50	40601	PIGR_T1	61	150	89	0.25	0.27	0.02	0	0	0	0	0	0	0	0
3/25/2024 10:51	27503	WEIS_T2	1	4	3	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/25/2024 10:51	42601	TUSC_T1	13	22	9	0.51	0.3	-0.21	0.15	0.14	2	2	0	1800	1800	0
3/25/2024 10:51	27502	WEIS_T2	0	0	0	0	0	0	-0.46	-0.43	0	0	0	0	0	0
3/25/2024 10:51	48301	ORWI_T1	2	2	0	4.5	4.15	-0.35	0	0	0	0	0	0	0	0
3/25/2024 10:52	45902	AUBU_T1	1	2	1	0.4	0.5	0.1	-0.42	-0.48	1	1	0	600	600	0
3/25/2024 10:52	57401	SPAN_T1	7	17	10	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/25/2024 10:52	59101	WALK_T2	0	0	0	0	0	0	2.31	2.32	0	0	0	0	0	0
3/25/2024 10:52	59102	WALK_T2	6	6	0	0.23	0.55	0.32	0	0	0	0	0	0	0	0
3/25/2024 10:52	57403	SPAN_T1	113	149	36	0.39	0.36	-0.03	0.07	0.07	0	0	0	0	0	0
3/25/2024 10:53	55105	WERT_T1	1	1	0	0.1	0.1	0	-0.64	-0.64	0	0	0	0	0	0
3/25/2024 10:53	57401	SPAN_T1	7	17	10	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/25/2024 10:53	57403	SPAN_T1	113	149	36	0.39	0.36	-0.03	0.07	0.08	0	0	0	0	0	0
3/25/2024 10:53	42601	TUSC_T1	13	22	9	0.51	0.3	-0.21	0.14	0.08	2	2	0	1800	1800	0
3/25/2024 10:53	60201	ATGL_T2	0	0	0	0	0	0	0.56	0.5	0	0	0	0	0	0
3/25/2024 10:55	45902	AUBU_T1	1	2	1	0.4	0.5	0.1	-0.48	-0.46	1	1	0	600	600	0
3/25/2024 10:56	60201	ATGL_T2	0	0	0	0	0	0	0.5	0.55	0	0	0	0	0	0
3/25/2024 10:56	45902	AUBU_T1	1	2	1	0.4	0.5	0.1	-0.96	-0.92	2	2	0	1200	1200	0
3/25/2024 10:58	17804	GILB_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
3/25/2024 10:58	60803	BUCK_T1	0	0	0	0	0	0	-1.06	-1	2	2	0	1200	1200	0
3/25/2024 10:58	17805	GILB_T2	1	1	0	0.3	0.5	0.2	0.06	0.07	0	0	0	0	0	0
3/25/2024 10:59	53902	HALI_T2	3	2	-1	2.33	3.2	0.87	0	0	0	0	0	0	0	0
3/25/2024 10:59	48901	FOSP_T2	0	0	0	0	0	0	-0.05	-0.02	1	1	0	600	600	0
3/25/2024 10:59	53903	HALI_T2	16	9	-7	0.59	0.79	0.2	-0.15	-0.13	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/25/2024 10:59	53901	HALI_T2	6	1	-5	0.34	1.2	0.86	0	0	0	0	0	0	0	0
3/25/2024 11:00	53901	HALI_T2	1	1	0	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
3/25/2024 11:00	53902	HALI_T2	2	3	1	3.2	2.17	-1.03	0	0	0	0	0	0	0	0
3/25/2024 11:00	17805	GILB_T2	1	1	0	0.3	0.5	0.2	0.06	0.07	0	0	0	0	0	0
3/25/2024 11:00	53903	HALI_T2	9	8	-1	0.74	0.79	0.05	-0.15	-0.13	0	0	0	0	0	0
3/25/2024 11:00	17804	GILB_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
3/25/2024 11:01	10801	CHHI_T1	3	6	3	0.27	0.35	0.08	-0.56	-0.57	1	1	0	900	900	0
3/25/2024 11:01	45902	AUBU_T1	1	2	1	0.8	0.5	-0.3	-0.48	-0.46	1	1	0	600	600	0
3/25/2024 11:02	64802	MONE_T2	46	61	15	0.46	0.42	-0.04	0	0	0	0	0	0	0	0
3/25/2024 11:02	64801	MONE_T2	80	69	-11	0.35	0.37	0.02	-0.31	-0.32	0	0	0	0	0	0
3/25/2024 11:02	53903	HALI_T2	9	8	-1	0.74	0.79	0.05	-0.15	-0.13	0	0	0	0	0	0
3/25/2024 11:02	52501	PROG_T1	1	2	1	0.3	0.4	0.1	0.44	0.38	1	1	0	300	300	0
3/25/2024 11:02	53901	HALI_T2	1	1	0	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
3/25/2024 11:02	53902	HALI_T2	2	3	1	3.2	2.17	-1.03	0	0	0	0	0	0	0	0
3/25/2024 11:07	59101	WALK_T2	0	0	0	0	0	0	2.32	2.18	0	0	0	0	0	0
3/25/2024 11:07	59102	WALK_T2	6	13	7	0.25	0.35	0.1	0	0	0	0	0	0	0	0
3/25/2024 11:07	57403	SPAN_T1	139	140	1	0.37	0.32	-0.05	0	0	0	0	0	0	0	0
3/25/2024 11:07	57401	SPAN_T1	12	14	2	0.34	0.35	0.01	-1.15	-1.12	1	1	0	600	600	0
3/25/2024 11:08	59102	WALK_T2	6	13	7	0.25	0.35	0.1	0	0	0	0	0	0	0	0
3/25/2024 11:08	59101	WALK_T2	0	0	0	0	0	0	2.18	2	0	0	0	0	0	0
3/25/2024 11:09	67203	TEHI_T1	0	0	0	0	0	0	2.28	2.18	2	2	0	1200	1200	0
3/25/2024 11:09	57401	SPAN_T1	12	14	2	0.34	0.35	0.01	0	0	0	0	0	0	0	0
3/25/2024 11:09	57403	SPAN_T1	139	140	1	0.37	0.32	-0.05	0.08	0.07	0	0	0	0	0	0
3/25/2024 11:09	66503	SMAN_T2	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
3/25/2024 11:09	66501	SMAN_T2	0	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0
3/25/2024 11:09	66502	SMAN_T2	4	18	14	0.33	0.41	0.08	0	0	0	0	0	0	0	0
3/25/2024 11:09	67402	WAKE_T2	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/25/2024 11:09	67201	TEHI_T1	46	3	-43	0.28	0.77	0.49	0	0	0	0	0	0	0	0
3/25/2024 11:09	66505	SMAN_T2	2	5	3	0.2	0.34	0.14	0	0	0	0	0	0	0	0
3/25/2024 11:09	66504	SMAN_T2	2	4	2	0.4	0.53	0.13	-0.77	-0.79	0	0	0	0	0	0
3/25/2024 11:09	42701	AUGU_T1	2	3	1	0.6	0.53	-0.07	0	0	2	2	0	1800	1800	0
3/25/2024 11:09	67401	WAKE_T2	3	3	0	0.27	0.47	0.2	-0.77	-0.78	0	0	0	0	0	0
3/25/2024 11:11	52402	GRPA_T2	18	12	-6	0.79	0.66	-0.13	0	0	0	0	0	0	0	0
3/25/2024 11:11	42701	AUGU_T1	2	3	1	0.6	0.53	-0.07	0	0	2	2	0	1800	1800	0
3/25/2024 11:11	54505	ENOL_T2	2	3	1	1	0.77	-0.23	0	0	0	0	0	0	0	0
3/25/2024 11:11	52403	GRPA_T2	14	14	0	0.58	0.57	-0.01	0.12	0.06	0	0	0	0	0	0
3/25/2024 11:11	54501	ENOL_T2	0	2	2	0	0.6	0.6	0.11	0.1	0	0	0	0	0	0
3/25/2024 11:11	52401	GRPA_T2	2	1	-1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/25/2024 11:11	54504	ENOL_T2	1	1	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
3/25/2024 11:11	54502	ENOL_T2	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
3/25/2024 11:12	10801	CHHI_T1	3	6	3	0.27	0.35	0.08	-0.57	-0.62	1	1	0	900	900	0
3/25/2024 11:13	56802	BENV_T2	43	196	153	0.25	0.36	0.11	-2.51	-2.6	0	0	0	0	0	0
3/25/2024 11:14	52403	GRPA_T2	14	14	0	0.58	0.57	-0.01	0.12	0.06	0	0	0	0	0	0
3/25/2024 11:14	52402	GRPA_T2	18	12	-6	0.79	0.66	-0.13	0	0	0	0	0	0	0	0
3/25/2024 11:14	52401	GRPA_T2	2	1	-1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/25/2024 11:14	42201	SHEN_T2	0	0	0	0	0	0	-0.12	-0.14	1	1	0	600	600	0
3/25/2024 11:15	26402	INOR_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
3/25/2024 11:15	56802	BENV_T2	133	269	136	0.24	0.48	0.24	-1.25	-1.3	0	0	0	0	0	0
3/25/2024 11:15	26401	INOR_T1	1	1	0	1.2	1.2	0	0.85	0.94	0	0	0	0	0	0
3/25/2024 11:16	63602	LETO_T1	0	8	8	0	0.24	0.24	-0.4	-0.32	0	0	0	0	0	0
3/25/2024 11:16	63601	LETO_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/25/2024 11:17	10801	CHHI_T1	5	6	1	0.32	0.65	0.33	-0.57	-0.62	1	1	0	900	900	0
3/25/2024 11:18	52401	GRPA_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
3/25/2024 11:18	55001	NEWP_T1	2	8	6	0.85	0.66	-0.19	-0.13	-0.16	0	0	0	0	0	0
3/25/2024 11:18	55002	NEWP_T1	14	16	2	0.77	0.91	0.14	0	0	0	0	0	0	0	0
3/25/2024 11:18	52402	GRPA_T2	10	18	8	0.66	0.71	0.05	0	0	0	0	0	0	0	0
3/25/2024 11:18	52403	GRPA_T2	13	17	4	0.61	0.66	0.05	0.12	0.06	0	0	0	0	0	0
3/25/2024 11:19	56802	BENV_T2	133	269	136	0.24	0.48	0.24	-1.25	-1.3	0	0	0	0	0	0
3/25/2024 11:19	41902	REED_T1	4	4	0	0.3	0.68	0.38	2.3	2.24	0	0	0	0	0	0
3/25/2024 11:19	64101	REFR_T1	3	4	1	0.27	0.45	0.18	-0.06	-0.06	0	0	0	0	0	0
3/25/2024 11:19	41901	REED_T1	9	10	1	0.46	0.54	0.08	0	0	0	0	0	0	0	0
3/25/2024 11:20	58402	MORO_T1	0	0	0	0	0	0	-0.84	-0.87	3	3	0	2400	2400	0
3/25/2024 11:20	58401	MORO_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/25/2024 11:20	55001	NEWP_T1	2	8	6	0.85	0.66	-0.19	-0.13	-0.16	0	0	0	0	0	0
3/25/2024 11:20	55002	NEWP_T1	14	16	2	0.77	0.91	0.14	0	0	0	0	0	0	0	0
3/25/2024 11:22	67401	WAKE_T2	3	3	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/25/2024 11:22	41901	REED_T1	9	10	1	0.46	0.54	0.08	0	0	0	0	0	0	0	0
3/25/2024 11:22	64101	REFR_T1	3	4	1	0.27	0.45	0.18	-0.06	-0.06	0	0	0	0	0	0
3/25/2024 11:22	41902	REED_T1	4	4	0	0.3	0.68	0.38	1.15	1.12	0	0	0	0	0	0
3/25/2024 11:22	67402	WAKE_T2	3	2	-1	0.3	0.25	-0.05	0.46	0.46	1	1	0	600	600	0
3/25/2024 11:22	45902	AUBU_T1	2	1	-1	0.5	0.9	0.4	-0.46	-0.44	1	1	0	600	600	0
3/25/2024 11:22	15703	TANN_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
3/25/2024 11:22	15704	TANN_T1	0	0	0	0	0	0	-1.15	-1.19	0	0	0	0	0	0
3/25/2024 11:23	57104	SPHI_T2	6	7	1	0.43	0.6	0.17	0	0	0	0	0	0	0	0
3/25/2024 11:23	26001	WDAM_T1	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
3/25/2024 11:23	45902	AUBU_T1	2	1	-1	0.5	0.9	0.4	-0.44	-0.42	1	1	0	600	600	0
3/25/2024 11:23	57106	SPHI_T2	4	4	0	1.53	1.43	-0.1	0	0	0	0	0	0	0	0
3/25/2024 11:23	57101	SPHI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 11:23	26002	WDAM_T1	3	6	3	0.5	0.67	0.17	0	0	0	0	0	0	0	0
3/25/2024 11:23	57103	SPHI_T2	3	3	0	0.17	0.2	0.03	-0.27	-0.31	0	0	0	0	0	0
3/25/2024 11:24	60903	DONG_T2	2	1	-1	0.6	1.2	0.6	0	0	0	0	0	0	0	0
3/25/2024 11:24	60904	DONG_T2	3	7	4	0.53	0.44	-0.09	0	0	0	0	0	0	0	0
3/25/2024 11:24	60901	DONG_T2	5	7	2	0.56	0.63	0.07	0	0	0	0	0	0	0	0
3/25/2024 11:24	60902	DONG_T2	1	2	1	0.7	0.5	-0.2	0.58	0.58	0	0	0	0	0	0
3/25/2024 11:24	60201	ATGL_T2	0	0	0	0	0	0	0.53	0.41	0	0	0	0	0	0
3/25/2024 11:25	41602	CLEV_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/25/2024 11:25	41601	CLEV_T1	1	1	0	1.3	1.7	0.4	0	0	0	0	0	0	0	0
3/25/2024 11:26	41601	CLEV_T1	1	1	0	1.3	1.7	0.4	0	0	0	0	0	0	0	0
3/25/2024 11:26	41602	CLEV_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/25/2024 11:27	50201	HARR_T3	1	1	0	9.5	9	-0.5	0	0	0	0	0	0	0	0
3/25/2024 11:27	50103	HARR_T3	5	5	0	0.26	0.7	0.44	-1	-0.99	1	1	0	1200	1200	0
3/25/2024 11:27	50105	HARR_T3	7	7	0	6.53	6.51	-0.02	0	0	0	0	0	0	0	0
3/25/2024 11:27	50102	HARR_T3	2	5	3	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/25/2024 11:28	14802	TREI_T2	16	46	30	0.19	0.24	0.05	0	0	0	0	0	0	0	0
3/25/2024 11:28	50102	HARR_T3	2	5	3	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/25/2024 11:28	10801	CHHI_T1	5	6	1	0.32	0.65	0.33	-0.62	-0.68	1	1	0	900	900	0
3/25/2024 11:28	50105	HARR_T3	7	7	0	6.53	6.51	-0.02	0	0	0	0	0	0	0	0
3/25/2024 11:28	50103	HARR_T3	5	5	0	0.26	0.7	0.44	-1	-0.99	1	1	0	1200	1200	0
3/25/2024 11:28	14801	TREI_T2	92	193	101	0.21	0.3	0.09	0.41	0.41	0	0	0	0	0	0
3/25/2024 11:28	45902	AUBU_T1	2	1	-1	0.5	0.9	0.4	-0.44	-0.42	1	1	0	600	600	0
3/25/2024 11:28	50201	HARR_T3	1	1	0	9.5	9	-0.5	0	0	0	0	0	0	0	0
3/25/2024 11:29	64301	LINC_T1	0	0	0	0	0	0	0.63	0.67	0	0	0	0	0	0
3/25/2024 11:29	64303	LINC_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/25/2024 11:29	25501	MADI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/25/2024 11:29	25502	MADI_T1	2	1	-1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
3/25/2024 11:29	64305	LINC_T1	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/25/2024 11:29	25503	MADI_T1	1	1	0	0.5	0.4	-0.1	-0.96	-0.99	0	0	0	0	0	0
3/25/2024 11:30	20603	GRWO_T2	5	5	0	0.5	0.76	0.26	0	0	0	0	0	0	0	0
3/25/2024 11:30	42902	MIDD_T2	10	19	9	0.52	0.55	0.03	-0.32	-0.28	0	0	0	0	0	0
3/25/2024 11:30	42903	MIDD_T2	2	3	1	1	1	0	0	0	0	0	0	0	0	0
3/25/2024 11:30	17805	GILB_T2	1	2	1	0.5	0.45	-0.05	0.04	0.06	0	0	0	0	0	0
3/25/2024 11:30	42901	MIDD_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/25/2024 11:30	17803	GILB_T2	0	13	13	0	0.25	0.25	0	0	0	0	0	0	0	0
3/25/2024 11:30	20601	GRWO_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
3/25/2024 11:30	17804	GILB_T2	2	4	2	0.75	0.58	-0.17	0	0	0	0	0	0	0	0
3/25/2024 11:31	58402	MORO_T1	0	0	0	0	0	0	-0.87	-0.93	3	3	0	2400	2400	0
3/25/2024 11:31	58401	MORO_T1	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/25/2024 11:33	42902	MIDD_T2	10	19	9	0.52	0.55	0.03	0	0	0	0	0	0	0	0
3/25/2024 11:33	64801	MONE_T2	69	76	7	0.36	0.33	-0.03	-0.33	-0.33	0	0	0	0	0	0
3/25/2024 11:33	42903	MIDD_T2	2	3	1	1	1	0	0.65	0.79	1	1	0	1200	1200	0
3/25/2024 11:33	10801	CHHI_T1	6	7	1	0.27	1.04	0.77	-0.62	-0.68	1	1	0	900	900	0
3/25/2024 11:33	42901	MIDD_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/25/2024 11:33	64802	MONE_T2	59	50	-9	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
3/25/2024 11:34	41902	REED_T1	4	6	2	0.38	0.8	0.42	2.24	2.35	0	0	0	0	0	0
3/25/2024 11:34	58402	MORO_T1	0	0	0	0	0	0	-0.87	-0.93	3	3	0	2400	2400	0
3/25/2024 11:34	17002	RIRO_T2	17	37	20	0.32	0.27	-0.05	0.66	0.65	0	0	0	0	0	0
3/25/2024 11:34	41901	REED_T1	9	10	1	0.48	0.61	0.13	0	0	0	0	0	0	0	0
3/25/2024 11:34	58401	MORO_T1	1	2	1	0.5	0.4	-0.1	-0.96	-0.96	1	1	0	600	600	0
3/25/2024 11:35	58003	WCAR_T1	58	64	6	0.35	0.43	0.08	0.78	0.75	0	0	0	0	0	0
3/25/2024 11:35	64802	MONE_T2	59	50	-9	0.43	0.37	-0.06	0.2	0.63	0	0	0	0	0	0
3/25/2024 11:35	41902	REED_T1	4	6	2	0.38	0.8	0.42	2.24	2.35	0	0	0	0	0	0
3/25/2024 11:35	64801	MONE_T2	69	76	7	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
3/25/2024 11:35	58001	WCAR_T1	8	13	5	0.75	0.58	-0.17	0	0	0	0	0	0	0	0
3/25/2024 11:35	41901	REED_T1	9	10	1	0.48	0.61	0.13	0	0	0	0	0	0	0	0
3/25/2024 11:36	41902	REED_T1	4	6	2	0.38	0.8	0.42	1.12	1.17	0	0	0	0	0	0
3/25/2024 11:36	65003	NEFF_T2	7	10	3	0.44	0.46	0.02	0	0	0	0	0	0	0	0
3/25/2024 11:36	65004	NEFF_T2	5	12	7	0.44	0.44	0	-0.49	-0.51	0	0	0	0	0	0
3/25/2024 11:36	65001	NEFF_T2	23	144	121	0.17	0.15	-0.02	-0.36	-0.43	1	1	0	1200	1200	0
3/25/2024 11:36	65002	NEFF_T2	2	7	5	0.15	0.19	0.04	0	0	0	0	0	0	0	0
3/25/2024 11:36	65005	NEFF_T2	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
3/25/2024 11:36	41901	REED_T1	9	10	1	0.48	0.61	0.13	0	0	0	0	0	0	0	0
3/25/2024 11:37	41902	REED_T1	4	6	2	0.38	0.8	0.42	1.12	1.17	0	0	0	0	0	0
3/25/2024 11:37	41901	REED_T1	9	10	1	0.48	0.61	0.13	0	0	0	0	0	0	0	0
3/25/2024 11:38	16302	ALPA_T2	0	0	0	0	0	0	0.82	0.72	0	0	0	0	0	0
3/25/2024 11:38	10801	CHHI_T1	6	7	1	0.27	1.04	0.77	-1.35	-1.53	2	2	0	1800	1800	0
3/25/2024 11:38	42601	TUSC_T1	0	13	13	0	0.39	0.39	0.19	0.07	2	2	0	1800	1800	0
3/25/2024 11:39	26001	WDAM_T1	0	0	0	0	0	0	-0.78	-0.74	0	0	0	0	0	0
3/25/2024 11:39	13901	SEID_T1	0	0	0	0	0	0	0.6	0.58	1	0	-1	1200	0	-1200
3/25/2024 11:39	58001	WCAR_T1	8	13	5	0.75	0.58	-0.17	0	0	0	0	0	0	0	0
3/25/2024 11:39	26002	WDAM_T1	3	6	3	0.83	0.67	-0.16	0	0	0	0	0	0	0	0
3/25/2024 11:39	58003	WCAR_T1	58	64	6	0.35	0.43	0.08	0.75	0.78	0	0	0	0	0	0
3/25/2024 11:39	13905	SEID_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/25/2024 11:39	16302	ALPA_T2	0	0	0	0	0	0	0.82	0.72	0	0	0	0	0	0
3/25/2024 11:39	13902	SEID_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/25/2024 11:40	17804	GILB_T2	2	4	2	0.75	0.58	-0.17	0	0	0	0	0	0	0	0
3/25/2024 11:40	17805	GILB_T2	1	2	1	0.5	0.45	-0.05	0.06	0.07	0	0	0	0	0	0
3/25/2024 11:40	17803	GILB_T2	0	13	13	0	0.25	0.25	0	0	0	0	0	0	0	0
3/25/2024 11:40	42601	TUSC_T1	0	13	13	0	0.39	0.39	0.19	0.07	2	2	0	1800	1800	0
3/25/2024 11:40	16302	ALPA_T2	0	0	0	0	0	0	0.82	0.72	0	0	0	0	0	0
3/25/2024 11:40	60901	DONG_T2	6	6	0	0.67	0.62	-0.05	0	0	0	0	0	0	0	0
3/25/2024 11:40	60902	DONG_T2	2	1	-1	0.5	0.8	0.3	0.58	0.58	0	0	0	0	0	0
3/25/2024 11:40	60904	DONG_T2	6	6	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
3/25/2024 11:40	60903	DONG_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/25/2024 11:41	16302	ALPA_T2	0	0	0	0	0	0	0.82	0.72	0	0	0	0	0	0
3/25/2024 11:43	54502	ENOL_T2	3	5	2	0.1	0.42	0.32	0	0	0	0	0	0	0	0
3/25/2024 11:43	60904	DONG_T2	6	6	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
3/25/2024 11:43	60902	DONG_T2	2	1	-1	0.5	0.8	0.3	0.58	0.58	0	0	0	0	0	0
3/25/2024 11:43	60901	DONG_T2	6	6	0	0.67	0.62	-0.05	0	0	0	0	0	0	0	0
3/25/2024 11:43	60903	DONG_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
3/25/2024 11:43	54501	ENOL_T2	2	5	3	0.6	0.74	0.14	0.1	0.13	0	0	0	0	0	0
3/25/2024 11:43	54504	ENOL_T2	1	1	0	1.2	1.7	0.5	0	0	0	0	0	0	0	0
3/25/2024 11:43	10801	CHHI_T1	6	7	1	0.27	1.04	0.77	-0.68	-0.77	1	1	0	900	900	0
3/25/2024 11:43	54505	ENOL_T2	3	3	0	0.7	1.07	0.37	0	0	0	0	0	0	0	0
3/25/2024 11:43	54503	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/25/2024 11:44	25502	MADI_T1	1	1	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
3/25/2024 11:44	25501	MADI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/25/2024 11:44	25503	MADI_T1	1	2	1	0.4	0.5	0.1	-0.99	-0.99	0	0	0	0	0	0
3/25/2024 11:45	64305	LINC_T1	3	4	1	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/25/2024 11:45	64303	LINC_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/25/2024 11:45	64301	LINC_T1	0	0	0	0	0	0	0.67	0.65	0	0	0	0	0	0
3/25/2024 11:46	42903	MIDD_T2	2	3	1	1.05	1.27	0.22	0	0	0	0	0	0	0	0
3/25/2024 11:46	42902	MIDD_T2	14	29	15	0.46	0.42	-0.04	-0.28	-0.34	0	0	0	0	0	0
3/25/2024 11:46	58401	MORO_T1	2	2	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/25/2024 11:46	42901	MIDD_T2	1	3	2	0.2	0.77	0.57	0	0	0	0	0	0	0	0
3/25/2024 11:46	58402	MORO_T1	0	0	0	0	0	-0.93	-0.91	3	3	0	2400	2400	0	0
3/25/2024 11:48	42901	MIDD_T2	1	3	2	0.2	0.77	0.57	0	0	0	0	0	0	0	0
3/25/2024 11:48	42902	MIDD_T2	14	29	15	0.46	0.42	-0.04	0	0	0	0	0	0	0	0
3/25/2024 11:48	42903	MIDD_T2	2	3	1	1.05	1.27	0.22	0.79	0.66	1	1	0	1200	1200	0
3/25/2024 11:49	42802	SELI_T1	2	3	1	0.65	0.5	-0.15	-1.12	-1.13	0	0	0	0	0	0
3/25/2024 11:50	58401	MORO_T1	2	2	0	0.4	0.2	-0.2	-0.96	-1.01	1	1	0	600	600	0
3/25/2024 11:50	67001	STHI_T2	5	128	123	0.46	0.13	-0.33	0	0	0	0	0	0	0	0
3/25/2024 11:50	67002	STHI_T2	27	50	23	0.41	0.41	0	1.24	1.24	0	0	0	0	0	0
3/25/2024 11:50	58402	MORO_T1	0	0	0	0	0	0	-0.93	-0.91	3	3	0	2400	2400	0
3/25/2024 11:51	16302	ALPA_T2	0	2	2	0	0.5	0.5	0.82	0.72	0	0	0	0	0	0
3/25/2024 11:51	67001	STHI_T2	5	128	123	0.46	0.13	-0.33	0	0	0	0	0	0	0	0
3/25/2024 11:51	67002	STHI_T2	27	50	23	0.41	0.41	0	2.48	2.48	0	0	0	0	0	0
3/25/2024 11:53	46001	BERW_T1	0	0	0	0	0	0	1.06	1.03	0	0	0	0	0	0
3/25/2024 11:53	46005	BERW_T1	2	2	0	0.65	0.85	0.2	0	0	0	0	0	0	0	0
3/25/2024 11:53	40602	PIGR_T1	3	4	1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/25/2024 11:53	20401	ASHF_T2	2	4	2	0.25	0.58	0.33	0	0	0	0	0	0	0	0
3/25/2024 11:53	40603	PIGR_T1	3	3	0	0.4	0.5	0.1	0.34	0.36	0	0	0	0	0	0
3/25/2024 11:53	67001	STHI_T2	5	128	123	0.46	0.13	-0.33	0	0	0	0	0	0	0	0
3/25/2024 11:53	20403	ASHF_T2	4	13	9	0.75	0.48	-0.27	-1.59	-1.62	0	0	0	0	0	0
3/25/2024 11:53	40601	PIGR_T1	136	130	-6	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
3/25/2024 11:53	67002	STHI_T2	27	50	23	0.41	0.41	0	0.62	0.62	0	0	0	0	0	0
3/25/2024 11:54	16302	ALPA_T2	0	2	2	0	0.5	0.5	0.72	0.69	0	0	0	0	0	0
3/25/2024 11:54	10801	CHHI_T1	5	8	3	0.7	1.13	0.43	-1.53	-1.63	2	2	0	1800	1800	0
3/25/2024 11:55	16302	ALPA_T2	0	2	2	0	0.5	0.5	1.45	1.38	0	0	0	0	0	0
3/25/2024 11:56	46005	BERW_T1	2	2	0	0.65	0.85	0.2	0	0	0	0	0	0	0	0
3/25/2024 11:56	54502	ENOL_T2	2	6	4	0.3	0.38	0.08	0	0	0	0	0	0	0	0
3/25/2024 11:56	46001	BERW_T1	0	0	0	0	0	0	1.03	0.93	0	0	0	0	0	0
3/25/2024 11:56	67605	WARW_T1	63	63	0	0.61	0.63	0.02	-1.01	-1.04	0	0	0	0	0	0
3/25/2024 11:56	46002	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/25/2024 11:56	54504	ENOL_T2	1	2	1	1.3	1.15	-0.15	0	0	0	0	0	0	0	0
3/25/2024 11:56	54505	ENOL_T2	3	6	3	0.7	0.63	-0.07	-1.3	-1.31	1	1	0	600	600	0
3/25/2024 11:56	46004	BERW_T2	0	2	2	0	0.2	0.2	-0.22	-0.19	0	0	0	0	0	0
3/25/2024 11:56	67603	WARW_T1	7	7	0	0.34	0.39	0.05	0	0	0	0	0	0	0	0
3/25/2024 11:56	54503	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/25/2024 11:56	54501	ENOL_T2	5	6	1	0.66	0.67	0.01	0.13	0.13	0	0	0	0	0	0
3/25/2024 11:56	67604	WARW_T1	3	3	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/25/2024 11:58	67604	WARW_T1	3	3	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/25/2024 11:58	67603	WARW_T1	7	7	0	0.34	0.39	0.05	0	0	0	0	0	0	0	0
3/25/2024 11:58	67605	WARW_T1	63	63	0	0.61	0.63	0.02	-1.01	-1.04	0	0	0	0	0	0
3/25/2024 11:59	54505	ENOL_T2	3	6	3	0.7	0.63	-0.07	-1.3	-1.31	1	1	0	600	600	0
3/25/2024 11:59	54502	ENOL_T2	2	6	4	0.3	0.38	0.08	0	0	0	0	0	0	0	0
3/25/2024 11:59	54504	ENOL_T2	1	2	1	1.3	1.15	-0.15	0	0	0	0	0	0	0	0
3/25/2024 11:59	54503	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/25/2024 11:59	54501	ENOL_T2	5	6	1	0.66	0.67	0.01	0	0	0	0	0	0	0	0
3/25/2024 11:59	10801	CHHI_T1	5	8	3	0.7	1.13	0.43	-0.77	-0.82	1	1	0	900	900	0
3/25/2024 12:00	54503	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/25/2024 12:00	54504	ENOL_T2	1	2	1	1.7	1.25	-0.45	-1.02	-1.04	1	1	0	600	600	0
3/25/2024 12:00	54505	ENOL_T2	3	6	3	1.07	0.72	-0.35	-1.3	-1.31	1	1	0	600	600	0
3/25/2024 12:00	25501	MADI_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/25/2024 12:00	25503	MADI_T1	2	12	10	0.5	0.18	-0.32	-0.99	-0.96	0	0	0	0	0	0
3/25/2024 12:00	54501	ENOL_T2	5	9	4	0.74	0.52	-0.22	0	0	0	0	0	0	0	0
3/25/2024 12:00	25502	MADI_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/25/2024 12:00	54502	ENOL_T2	5	6	1	0.42	0.45	0.03	0	0	0	0	0	0	0	0
3/25/2024 12:02	65005	NEFF_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
3/25/2024 12:02	65004	NEFF_T2	12	6	-6	0.39	0.42	0.03	-0.51	-0.52	0	0	0	0	0	0
3/25/2024 12:02	65001	NEFF_T2	134	5	-129	0.15	0.26	0.11	-0.47	-0.41	1	1	0	1200	1200	0
3/25/2024 12:02	65002	NEFF_T2	6	2	-4	0.2	5.05	4.85	0	0	0	0	0	0	0	0
3/25/2024 12:02	65003	NEFF_T2	9	4	-5	0.48	0.7	0.22	0	0	0	0	0	0	0	0
3/25/2024 12:04	41902	REED_T1	6	7	1	0.8	0.76	-0.04	1.11	1.17	0	0	0	0	0	0
3/25/2024 12:04	41901	REED_T1	9	10	1	0.64	0.81	0.17	0	0	0	0	0	0	0	0
3/25/2024 12:06	41902	REED_T1	6	7	1	0.8	0.76	-0.04	2.22	2.34	0	0	0	0	0	0
3/25/2024 12:06	67001	STHI_T2	8	204	196	0.48	0.13	-0.35	0	0	0	0	0	0	0	0
3/25/2024 12:06	41901	REED_T1	9	10	1	0.64	0.81	0.17	0	0	0	0	0	0	0	0
3/25/2024 12:06	67002	STHI_T2	32	63	31	0.45	0.39	-0.06	1.24	1.22	0	0	0	0	0	0
3/25/2024 12:07	67002	STHI_T2	32	63	31	0.45	0.39	-0.06	1.24	1.22	0	0	0	0	0	0
3/25/2024 12:07	67001	STHI_T2	8	204	196	0.48	0.13	-0.35	0	0	0	0	0	0	0	0
3/25/2024 12:07	16302	ALPA_T2	0	2	2	0	0.65	0.65	0.72	0.69	0	0	0	0	0	0
3/25/2024 12:08	13302	ORVI_T2	4	4	0	0.55	0.68	0.13	1.35	1.37	0	0	0	0	0	0
3/25/2024 12:09	54503	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/25/2024 12:09	10705	CATA_T2	4	3	-1	0.38	0.3	-0.08	-0.96	-0.93	1	1	0	900	900	0
3/25/2024 12:09	54501	ENOL_T2	5	9	4	0.74	0.52	-0.22	0	0	0	0	0	0	0	0
3/25/2024 12:09	67001	STHI_T2	8	204	196	0.48	0.13	-0.35	0	0	0	0	0	0	0	0
3/25/2024 12:09	67002	STHI_T2	32	63	31	0.45	0.39	-0.06	0.61	0.62	0	0	0	0	0	0
3/25/2024 12:09	10704	CATA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/25/2024 12:09	54504	ENOL_T2	1	2	1	1.7	1.25	-0.45	0	0	0	0	0	0	0	0
3/25/2024 12:09	10707	CATA_T2	3	1	-2	0.77	0.8	0.03	0	0	0	0	0	0	0	0
3/25/2024 12:09	60903	DONG_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/25/2024 12:09	54505	ENOL_T2	3	6	3	1.07	0.72	-0.35	-1.31	-1.33	1	1	0	600	600	0
3/25/2024 12:09	16302	ALPA_T2	0	2	2	0	0.65	0.65	0.69	0.69	0	0	0	0	0	0
3/25/2024 12:09	60904	DONG_T2	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
3/25/2024 12:09	10702	CATA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/25/2024 12:09	60901	DONG_T2	5	5	0	0.48	0.5	0.02	0	0	0	0	0	0	0	0
3/25/2024 12:09	54502	ENOL_T2	5	6	1	0.42	0.45	0.03	0	0	0	0	0	0	0	0
3/25/2024 12:09	60902	DONG_T2	1	1	0	0.5	0.3	-0.2	0.55	0.57	0	0	0	0	0	0
3/25/2024 12:09	10701	CATA_T2	4	1	-3	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/25/2024 12:10	54502	ENOL_T2	5	6	1	0.42	0.45	0.03	0	0	0	0	0	0	0	0
3/25/2024 12:10	13901	SEID_T1	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
3/25/2024 12:10	54505	ENOL_T2	3	6	3	1.07	0.72	-0.35	-1.31	-1.33	1	1	0	600	600	0
3/25/2024 12:10	54501	ENOL_T2	5	9	4	0.74	0.52	-0.22	0	0	0	0	0	0	0	0
3/25/2024 12:10	13902	SEID_T1	1	2	1	0.5	0.75	0.25	0	0	0	0	0	0	0	0
3/25/2024 12:10	10801	CHHI_T1	7	8	1	1.04	0.96	-0.08	-1.63	-1.67	2	2	0	1800	1800	0
3/25/2024 12:10	13905	SEID_T1	1	3	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/25/2024 12:10	54503	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/25/2024 12:10	54504	ENOL_T2	1	2	1	1.7	1.25	-0.45	0	0	0	0	0	0	0	0
3/25/2024 12:11	44301	BEAV_T2	10	15	5	0.3	0.36	0.06	0	0	0	0	0	0	0	0
3/25/2024 12:11	44302	BEAV_T2	3	126	123	0.73	0.44	-0.29	0.27	0.27	0	0	0	0	0	0
3/25/2024 12:11	54503	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/25/2024 12:11	54501	ENOL_T2	5	9	4	0.74	0.52	-0.22	0	0	0	0	0	0	0	0
3/25/2024 12:11	54502	ENOL_T2	5	6	1	0.42	0.45	0.03	0	0	0	0	0	0	0	0
3/25/2024 12:11	26001	WDAM_T1	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
3/25/2024 12:11	54505	ENOL_T2	3	6	3	1.07	0.72	-0.35	-1.31	-1.33	1	1	0	600	600	0
3/25/2024 12:11	54504	ENOL_T2	1	2	1	1.7	1.25	-0.45	0	0	0	0	0	0	0	0
3/25/2024 12:11	26002	WDAM_T1	3	3	0	0.37	0.17	-0.2	0	0	0	0	0	0	0	0
3/25/2024 12:11	16302	ALPA_T2	0	2	2	0	0.65	0.65	0.69	0.69	0	0	0	0	0	0
3/25/2024 12:12	61304	EARL_T1	3	1	-2	0.43	0.6	0.17	0	0	0	0	0	0	0	0
3/25/2024 12:12	54505	ENOL_T2	3	6	3	1.07	0.72	-0.35	-1.31	-1.33	1	1	0	600	600	0
3/25/2024 12:12	54503	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/25/2024 12:12	54501	ENOL_T2	5	9	4	0.74	0.52	-0.22	0	0	0	0	0	0	0	0
3/25/2024 12:12	61303	EARL_T1	1	1	0	0.1	0.4	0.3	0.7	0.85	0	0	0	0	0	0
3/25/2024 12:12	54504	ENOL_T2	1	2	1	1.7	1.25	-0.45	0	0	0	0	0	0	0	0
3/25/2024 12:12	61302	EARL_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
3/25/2024 12:12	54502	ENOL_T2	5	6	1	0.42	0.45	0.03	0	0	0	0	0	0	0	0
3/25/2024 12:13	10805	CHHI_T2	2	1	-1	4.2	8.4	4.2	-0.38	-0.4	1	1	0	600	600	0
3/25/2024 12:14	54502	ENOL_T2	5	6	1	0.42	0.45	0.03	0	0	0	0	0	0	0	0
3/25/2024 12:14	54501	ENOL_T2	5	9	4	0.74	0.52	-0.22	0.13	0.13	0	0	0	0	0	0
3/25/2024 12:14	54503	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/25/2024 12:14	54505	ENOL_T2	3	6	3	1.07	0.72	-0.35	0	0	0	0	0	0	0	0
3/25/2024 12:14	61303	EARL_T1	1	1	0	0.1	0.4	0.3	0.35	0.43	0	0	0	0	0	0
3/25/2024 12:14	61302	EARL_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
3/25/2024 12:14	54504	ENOL_T2	1	2	1	1.7	1.25	-0.45	0	0	0	0	0	0	0	0
3/25/2024 12:14	61304	EARL_T1	3	1	-2	0.43	0.6	0.17	0	0	0	0	0	0	0	0
3/25/2024 12:15	10801	CHHI_T1	7	8	1	1.03	1.03	0	-0.82	-0.84	1	1	0	900	900	0
3/25/2024 12:18	59402	RFLD_T2	2	4	2	0.3	0.3	0	-0.59	-0.62	1	1	0	450	450	0
3/25/2024 12:20	12502	MITR_T2	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
3/25/2024 12:20	12501	MITR_T2	1	1	0	6.2	7.2	1	0	0	0	0	0	0	0	0
3/25/2024 12:20	12505	MITR_T2	1	2	1	0.1	0.25	0.15	1.56	1.41	0	0	0	0	0	0
3/25/2024 12:23	66901	SHIL_T2	5	5	0	0.26	0.34	0.08	-1.44	-1.34	0	0	0	0	0	0
3/25/2024 12:23	59201	THOM_T1	53	46	-7	0.46	0.48	0.02	0	0	0	0	0	0	0	0
3/25/2024 12:23	59202	THOM_T1	479	471	-8	0.6	0.56	-0.04	0	0	0	0	0	0	0	0
3/25/2024 12:23	66902	SHIL_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/25/2024 12:23	67204	TEHI_T2	1	0	-1	0.1	0	-0.1	-0.12	0	0	0	0	0	0	0
3/25/2024 12:24	67204	TEHI_T2	1	0	-1	0.1	0	-0.1	-0.12	-0.13	0	0	0	0	0	0
3/25/2024 12:24	20401	ASHF_T2	2	6	4	0.4	0.4	0	0	0	0	0	0	0	0	0
3/25/2024 12:24	20403	ASHF_T2	10	42	32	0.53	0.29	-0.24	-0.87	-0.87	0	0	0	0	0	0
3/25/2024 12:25	20403	ASHF_T2	10	42	32	0.53	0.29	-0.24	-0.87	-0.87	0	0	0	0	0	0
3/25/2024 12:25	20401	ASHF_T2	2	6	4	0.4	0.4	0	0	0	0	0	0	0	0	0
3/25/2024 12:25	44301	BEAV_T2	12	13	1	0.37	0.33	-0.04	-0.75	0.15	2	2	0	1500	1500	0
3/25/2024 12:25	61103	BERK_T5	1	6	5	0.2	0.28	0.08	0.16	0.05	0	0	0	0	0	0
3/25/2024 12:25	61101	BERK_T5	3	4	1	0.47	0.48	0.01	0	0	0	0	0	0	0	0
3/25/2024 12:25	44302	BEAV_T2	118	91	-27	0.45	0.42	-0.03	0	0	0	0	0	0	0	0
3/25/2024 12:26	61101	BERK_T5	3	4	1	0.47	0.48	0.01	0	0	0	0	0	0	0	0
3/25/2024 12:26	61103	BERK_T5	1	6	5	0.2	0.28	0.08	0.08	0.03	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/25/2024 12:26	41502	FAIR_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
3/25/2024 12:27	61103	BERK_T5	1	6	5	0.2	0.28	0.08	0.16	0.05	0	0	0	0	0	0
3/25/2024 12:27	61101	BERK_T5	3	4	1	0.47	0.48	0.01	0	0	0	0	0	0	0	0
3/25/2024 12:28	22101	EDEL_T2	1	1	0	0.5	0.7	0.2	0.37	0.38	1	1	0	1200	1200	0
3/25/2024 12:31	50506	MECH_T1	6	10	4	0.48	0.53	0.05	-0.03	-0.01	0	0	0	0	0	0
3/25/2024 12:31	50502	MECH_T1	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
3/25/2024 12:31	50501	MECH_T1	6	6	0	1	0.92	-0.08	0	0	0	0	0	0	0	0
3/25/2024 12:31	50505	MECH_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/25/2024 12:31	50504	MECH_T1	3	6	3	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/25/2024 12:31	50503	MECH_T1	5	6	1	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
3/25/2024 12:32	58401	MORO_T1	1	1	0	0.2	0.4	0.2	-1.06	-1.08	1	1	0	600	600	0
3/25/2024 12:32	58402	MORO_T1	0	2	2	0	0.2	0.2	-0.17	-0.17	2	2	0	1500	1500	0
3/25/2024 12:33	50504	MECH_T1	3	6	3	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/25/2024 12:33	50502	MECH_T1	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
3/25/2024 12:33	50505	MECH_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/25/2024 12:33	50501	MECH_T1	6	6	0	1	0.92	-0.08	0	0	0	0	0	0	0	0
3/25/2024 12:33	50506	MECH_T1	6	10	4	0.48	0.53	0.05	-0.03	-0.01	0	0	0	0	0	0
3/25/2024 12:33	50503	MECH_T1	5	6	1	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
3/25/2024 12:34	50503	MECH_T1	5	6	1	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
3/25/2024 12:34	50501	MECH_T1	6	6	0	1	0.92	-0.08	0	0	0	0	0	0	0	0
3/25/2024 12:34	50504	MECH_T1	3	6	3	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/25/2024 12:34	58402	MORO_T1	0	2	2	0	0.2	0.2	-0.17	-0.17	2	2	0	1500	1500	0
3/25/2024 12:34	58401	MORO_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/25/2024 12:34	50505	MECH_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/25/2024 12:34	50502	MECH_T1	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
3/25/2024 12:34	50506	MECH_T1	6	10	4	0.48	0.53	0.05	-0.03	-0.01	0	0	0	0	0	0
3/25/2024 12:36	17804	GILB_T2	6	7	1	0.55	0.71	0.16	-0.56	-0.59	0	0	0	0	0	0
3/25/2024 12:36	17803	GILB_T2	15	14	-1	0.22	0.31	0.09	0	0	0	0	0	0	0	0
3/25/2024 12:36	17805	GILB_T2	3	2	-1	0.37	0.45	0.08	0	0	0	0	0	0	0	0
3/25/2024 12:38	14802	TREI_T2	19	9	-10	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/25/2024 12:38	14801	TREI_T2	115	27	-88	0.21	0.4	0.19	0.31	0.34	0	0	0	0	0	0
3/25/2024 12:46	64305	LINC_T1	0	0	0	0	0	0	-0.25	-0.17	0	0	0	0	0	0
3/25/2024 12:47	50504	MECH_T1	5	6	1	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/25/2024 12:47	50501	MECH_T1	5	7	2	1.04	0.99	-0.05	0	0	0	0	0	0	0	0
3/25/2024 12:47	50503	MECH_T1	6	5	-1	0.32	0.42	0.1	0	0	0	0	0	0	0	0
3/25/2024 12:47	50502	MECH_T1	2	2	0	1.05	1.25	0.2	0	0	0	0	0	0	0	0
3/25/2024 12:47	50505	MECH_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/25/2024 12:47	50506	MECH_T1	6	13	7	0.65	0.53	-0.12	-0.01	-0.04	0	0	0	0	0	0
3/25/2024 12:48	65801	RTWN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/25/2024 12:48	50504	MECH_T1	5	6	1	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/25/2024 12:48	50501	MECH_T1	5	7	2	1.04	0.99	-0.05	0	0	0	0	0	0	0	0
3/25/2024 12:48	50502	MECH_T1	2	2	0	1.05	1.25	0.2	0	0	0	0	0	0	0	0
3/25/2024 12:48	50505	MECH_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/25/2024 12:48	50503	MECH_T1	6	5	-1	0.32	0.42	0.1	0	0	0	0	0	0	0	0
3/25/2024 12:48	65804	RTWN_T1	2	4	2	0.65	0.88	0.23	-0.22	-0.17	1	1	0	600	600	0
3/25/2024 12:48	50506	MECH_T1	6	13	7	0.65	0.53	-0.12	-0.01	-0.08	0	0	0	0	0	0
3/25/2024 12:53	16302	ALPA_T2	2	2	0	0.65	0.75	0.1	0.63	0.64	0	0	0	0	0	0
3/25/2024 12:54	16302	ALPA_T2	2	2	0	0.65	0.75	0.1	0.63	0.64	0	0	0	0	0	0
3/25/2024 12:57	16302	ALPA_T2	2	2	0	0.65	0.75	0.1	0.63	0.64	0	0	0	0	0	0
3/25/2024 12:57	45802	HEGI_T2	0	1	1	0	0	0	1	1.64	0	0	0	0	0	0
3/25/2024 13:03	58401	MORO_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/25/2024 13:03	58402	MORO_T1	2	0	-2	0.2	0	-0.2	-0.18	-0.16	2	2	0	1500	1500	0
3/25/2024 13:04	47403	PENS_T1	6	3	-3	0.52	0.43	-0.09	0	0	0	0	0	0	0	0
3/25/2024 13:04	47402	PENS_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
3/25/2024 13:04	47401	PENS_T1	6	13	7	0.97	0.62	-0.35	1.06	1.03	0	0	0	0	0	0
3/25/2024 13:05	10707	CATA_T2	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
3/25/2024 13:05	58402	MORO_T1	2	0	-2	0.2	0	-0.2	-0.18	-0.16	2	2	0	1500	1500	0
3/25/2024 13:05	58401	MORO_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/25/2024 13:05	10705	CATA_T2	2	2	0	0.2	0.2	0	-0.94	-0.99	1	1	0	900	900	0
3/25/2024 13:05	10701	CATA_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
3/25/2024 13:08	47401	PENS_T1	6	13	7	0.97	0.62	-0.35	1.06	1.03	0	0	0	0	0	0
3/25/2024 13:08	47403	PENS_T1	6	3	-3	0.52	0.43	-0.09	0	0	0	0	0	0	0	0
3/25/2024 13:08	47402	PENS_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
3/25/2024 13:15	42902	MIDD_T2	2	3	1	0.75	0.6	-0.15	-0.35	-0.36	0	0	0	0	0	0
3/25/2024 13:15	42903	MIDD_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
3/25/2024 13:18	42902	MIDD_T2	2	3	1	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
3/25/2024 13:18	42903	MIDD_T2	2	2	0	0.25	0.4	0.15	1.79	1.79	0	0	0	0	0	0
3/25/2024 13:27	54505	ENOL_T2	6	7	1	0.63	0.74	0.11	-1.33	-1.34	1	1	0	600	600	0
3/25/2024 13:27	54504	ENOL_T2	3	3	0	1.07	0.97	-0.1	0	0	0	0	0	0	0	0
3/25/2024 13:27	54503	ENOL_T2	3	3	0	0.5	0.67	0.17	0	0	0	0	0	0	0	0
3/25/2024 13:27	54506	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 13:27	54502	ENOL_T2	7	14	7	0.39	0.31	-0.08	0	0	0	0	0	0	0	0
3/25/2024 13:27	54501	ENOL_T2	8	8	0	0.8	0.96	0.16	0	0	0	0	0	0	0	0
3/25/2024 13:29	54504	ENOL_T2	3	3	0	1.07	0.97	-0.1	0	0	0	0	0	0	0	0
3/25/2024 13:29	54506	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 13:29	54505	ENOL_T2	6	7	1	0.63	0.74	0.11	-1.33	-1.34	1	1	0	600	600	0
3/25/2024 13:29	54503	ENOL_T2	3	3	0	0.5	0.67	0.17	0	0	0	0	0	0	0	0
3/25/2024 13:29	54501	ENOL_T2	8	8	0	0.8	0.96	0.16	0	0	0	0	0	0	0	0
3/25/2024 13:29	54502	ENOL_T2	7	14	7	0.39	0.31	-0.08	0	0	0	0	0	0	0	0
3/25/2024 13:38	57101	SPHI_T2	8	10	2	1.15	0.93	-0.22	0	0	0	0	0	0	0	0
3/25/2024 13:38	57103	SPHI_T2	6	6	0	0.33	0.38	0.05	-0.32	-0.33	0	0	0	0	0	0
3/25/2024 13:38	57102	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 13:38	57104	SPHI_T2	10	16	6	0.58	0.8	0.22	0	0	0	0	0	0	0	0
3/25/2024 13:38	57106	SPHI_T2	11	13	2	0.96	0.92	-0.04	0	0	0	0	0	0	0	0
3/25/2024 13:39	16301	ALPA_T1	57	56	-1	0.22	0.26	0.04	-0.44	-0.41	0	0	0	0	0	0
3/25/2024 13:39	10801	CHHI_T1	8	9	1	0.99	0.91	-0.08	-0.98	-1.04	1	1	0	900	900	0
3/25/2024 13:39	44301	BEAV_T2	9	13	4	0.27	0.29	0.02	-0.02	0.26	2	2	0	1500	1500	0
3/25/2024 13:39	44302	BEAV_T2	7	9	2	0.67	0.48	-0.19	0	0	0	0	0	0	0	0
3/25/2024 13:40	26002	WDAM_T1	3	4	1	0.83	0.53	-0.3	0	0	0	0	0	0	0	0
3/25/2024 13:40	26001	WDAM_T1	1	0	-1	0.1	0	-0.1	-0.8	-0.82	0	0	0	0	0	0
3/25/2024 13:44	10801	CHHI_T1	8	9	1	0.99	0.91	-0.08	-0.98	-1.04	1	1	0	900	900	0
3/25/2024 13:44	17802	GILB_T1	8	13	5	0.78	0.48	-0.3	0.11	0.11	0	0	0	0	0	0
3/25/2024 13:46	17802	GILB_T1	4	14	10	1	0.48	-0.52	0.11	0.11	0	0	0	0	0	0
3/25/2024 13:48	17805	GILB_T2	1	2	1	0.3	0.2	-0.1	0	-0.02	0	0	0	0	0	0
3/25/2024 13:48	17804	GILB_T2	5	6	1	0.42	0.68	0.26	0	0	0	0	0	0	0	0
3/25/2024 13:48	17803	GILB_T2	26	34	8	0.24	0.28	0.04	0	0	0	0	0	0	0	0
3/25/2024 13:49	54001	SDLE_T1	15	18	3	0.95	0.83	-0.12	0	0	0	0	0	0	0	0
3/25/2024 13:53	54001	SDLE_T1	15	18	3	0.95	0.83	-0.12	0	0	0	0	0	0	0	0
3/25/2024 13:54	54001	SDLE_T1	15	18	3	0.95	0.83	-0.12	0	0	0	0	0	0	0	0
3/25/2024 13:55	10801	CHHI_T1	8	9	1	0.88	0.89	0.01	-1.04	-1.05	1	1	0	900	900	0
3/25/2024 14:00	40101	HUNT_T2	0	3	3	0	0.1	0.1	-0.35	-0.39	0	0	0	0	0	0
3/25/2024 14:00	50201	HARR_T3	2	3	1	4.6	3.17	-1.43	0	0	0	0	0	0	0	0
3/25/2024 14:00	50103	HARR_T3	4	4	0	1.03	1	-0.03	-2.1	-2.02	2	2	0	2400	2400	0
3/25/2024 14:00	10801	CHHI_T1	9	8	-1	0.88	0.8	-0.08	-1.04	-1.05	1	1	0	900	900	0
3/25/2024 14:00	50107	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:00	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:00	50105	HARR_T3	7	7	0	6.3	6.11	-0.19	0	0	0	0	0	0	0	0
3/25/2024 14:00	50102	HARR_T3	16	23	7	0.24	0.27	0.03	0	0	0	0	0	0	0	0
3/25/2024 14:01	14401	SSLA_T1	12	11	-1	0.58	0.68	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:01	14402	SSLA_T1	57	66	9	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
3/25/2024 14:01	14404	SSLA_T1	30	43	13	0.54	0.43	-0.11	0	0	0	0	0	0	0	0
3/25/2024 14:01	14403	SSLA_T1	8	9	1	0.64	0.64	0	0.68	0.7	0	0	0	0	0	0
3/25/2024 14:02	40101	HUNT_T2	0	3	3	0	0.1	0.1	-0.35	-0.39	0	0	0	0	0	0
3/25/2024 14:03	14402	SSLA_T1	57	66	9	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
3/25/2024 14:03	14404	SSLA_T1	30	43	13	0.54	0.43	-0.11	0	0	0	0	0	0	0	0
3/25/2024 14:03	14403	SSLA_T1	8	9	1	0.64	0.64	0	0.68	0.7	0	0	0	0	0	0
3/25/2024 14:03	14401	SSLA_T1	12	11	-1	0.58	0.68	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:04	41901	REED_T1	10	10	0	0.66	0.65	-0.01	0	0	0	0	0	0	0	0
3/25/2024 14:04	41902	REED_T1	7	6	-1	0.7	0.88	0.18	1.14	1.12	0	0	0	0	0	0
3/25/2024 14:07	41902	REED_T1	7	6	-1	0.7	0.88	0.18	2.28	2.24	0	0	0	0	0	0
3/25/2024 14:07	41901	REED_T1	10	10	0	0.66	0.65	-0.01	0	0	0	0	0	0	0	0
3/25/2024 14:09	54501	ENOL_T2	7	8	1	0.86	0.71	-0.15	0.07	0.06	0	0	0	0	0	0
3/25/2024 14:09	54504	ENOL_T2	2	2	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:09	54503	ENOL_T2	2	2	0	1	0.85	-0.15	0	0	0	0	0	0	0	0
3/25/2024 14:09	13503	MCMI_T2	143	107	-36	0.39	0.35	-0.04	-0.93	-0.01	0	0	0	0	0	0
3/25/2024 14:09	54502	ENOL_T2	7	6	-1	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
3/25/2024 14:09	54505	ENOL_T2	5	6	1	1	0.72	-0.28	0	0	0	0	0	0	0	0
3/25/2024 14:09	20403	ASHF_T2	61	8	-53	0.34	0.69	0.35	-0.89	-0.86	0	0	0	0	0	0
3/25/2024 14:10	60801	BUCK_T1	1	2	1	0.3	0.2	-0.1	0.17	0.2	0	0	0	0	0	0
3/25/2024 14:10	13501	MCMI_T1	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
3/25/2024 14:10	60901	DONG_T2	7	4	-3	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
3/25/2024 14:10	13502	MCMI_T1	7	5	-2	0.39	0.44	0.05	0	0	0	0	0	0	0	0
3/25/2024 14:10	60803	BUCK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/25/2024 14:10	44302	BEAV_T2	6	19	13	0.45	0.56	0.11	0	0	0	0	0	0	0	0
3/25/2024 14:10	60904	DONG_T2	2	1	-1	0.55	0.9	0.35	0	0	0	0	0	0	0	0
3/25/2024 14:10	60903	DONG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:10	44301	BEAV_T2	4	25	21	0.4	0.4	0	-0.1	-0.33	2	2	0	1500	1500	0
3/25/2024 14:10	60902	DONG_T2	1	0	-1	0.1	0	-0.1	0.54	0.49	0	0	0	0	0	0
3/25/2024 14:10	20403	ASHF_T2	61	8	-53	0.34	0.69	0.35	-0.89	-0.86	0	0	0	0	0	0
3/25/2024 14:11	41502	FAIR_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
3/25/2024 14:11	10801	CHHI_T1	9	8	-1	0.88	0.8	-0.08	-1.05	-1.06	1	1	0	900	900	0
3/25/2024 14:12	60903	DONG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:12	13502	MCMI_T1	7	5	-2	0.39	0.44	0.05	0	0	0	0	0	0	0	0
3/25/2024 14:12	13501	MCMI_T1	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
3/25/2024 14:12	60901	DONG_T2	7	4	-3	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
3/25/2024 14:12	13503	MCMI_T2	143	107	-36	0.39	0.35	-0.04	-0.93	-0.01	0	0	0	0	0	0
3/25/2024 14:12	60902	DONG_T2	1	0	-1	0.1	0	-0.1	0.54	0.49	0	0	0	0	0	0
3/25/2024 14:12	60801	BUCK_T1	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:12	60803	BUCK_T1	1	1	0	0.1	0.1	0	-0.55	-0.55	1	1	0	600	600	0
3/25/2024 14:12	60904	DONG_T2	2	1	-1	0.55	0.9	0.35	0	0	0	0	0	0	0	0
3/25/2024 14:13	52204	DEVO_T2	2	3	1	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
3/25/2024 14:13	53903	HALI_T2	14	20	6	0.64	0.61	-0.03	-0.15	-0.16	0	0	0	0	0	0
3/25/2024 14:13	52202	DEVO_T2	0	1	1	0	0.2	0.2	-0.18	-0.17	0	0	0	0	0	0
3/25/2024 14:13	41601	CLEV_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
3/25/2024 14:13	40101	HUNT_T2	0	3	3	0	0.1	0.1	-0.39	-0.35	0	0	0	0	0	0
3/25/2024 14:13	53901	HALI_T2	2	4	2	0.55	0.65	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:13	41602	CLEV_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
3/25/2024 14:13	13503	MCMI_T2	143	107	-36	0.39	0.35	-0.04	-0.93	-0.01	0	0	0	0	0	0
3/25/2024 14:13	53902	HALI_T2	4	7	3	1.93	1.27	-0.66	0	0	0	0	0	0	0	0
3/25/2024 14:14	13503	MCMI_T2	143	107	-36	0.39	0.35	-0.04	-0.93	-0.01	0	0	0	0	0	0
3/25/2024 14:14	41601	CLEV_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
3/25/2024 14:14	60801	BUCK_T1	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:14	41602	CLEV_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/25/2024 14:14	60803	BUCK_T1	1	1	0	0.1	0.1	0	-0.55	-0.55	1	1	0	600	600	0
3/25/2024 14:15	40101	HUNT_T2	3	3	0	0.1	0	-0.1	-0.39	-0.35	0	0	0	0	0	0
3/25/2024 14:15	53903	HALI_T2	18	19	1	0.63	0.65	0.02	-0.31	-0.32	0	0	0	0	0	0
3/25/2024 14:15	53901	HALI_T2	2	4	2	0.65	0.7	0.05	0	0	0	0	0	0	0	0
3/25/2024 14:15	53902	HALI_T2	5	7	2	1.66	1.27	-0.39	0	0	0	0	0	0	0	0
3/25/2024 14:16	10801	OHHI_T1	7	7	0	0.9	0.74	-0.16	-2.11	-2.11	2	2	0	1800	1800	0
3/25/2024 14:16	17805	GILB_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/25/2024 14:16	17804	GILB_T2	4	5	1	0.55	0.48	-0.07	-0.58	-0.59	0	0	0	0	0	0
3/25/2024 14:16	64802	MONE_T2	225	242	17	0.31	0.33	0.02	0	0	0	0	0	0	0	0
3/25/2024 14:16	64801	MONE_T2	298	316	18	0.43	0.5	0.07	-0.39	-0.4	0	0	0	0	0	0
3/25/2024 14:16	17803	GILB_T2	33	5	-28	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
3/25/2024 14:17	47403	PENS_T1	9	17	8	0.93	0.58	-0.35	0	0	0	0	0	0	0	0
3/25/2024 14:17	64801	MONE_T2	298	316	18	0.43	0.5	0.07	0	0	0	0	0	0	0	0
3/25/2024 14:17	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:17	40101	HUNT_T2	3	3	0	0.1	0	-0.1	-0.39	-0.35	0	0	0	0	0	0
3/25/2024 14:17	47402	PENS_T1	3	3	0	0.8	0.83	0.03	0	0	0	0	0	0	0	0
3/25/2024 14:17	58402	MORO_T1	1	1	0	0.5	0.2	-0.3	-0.13	-0.14	2	2	0	1500	1500	0
3/25/2024 14:17	64802	MONE_T2	225	242	17	0.31	0.33	0.02	0.25	0.24	0	0	0	0	0	0
3/25/2024 14:17	47401	PENS_T1	60	22	-38	0.48	0.46	-0.02	1.15	1.15	0	0	0	0	0	0
3/25/2024 14:18	64802	MONE_T2	225	242	17	0.31	0.33	0.02	0.25	0.24	0	0	0	0	0	0
3/25/2024 14:18	42002	MNVL_T2	2	2	0	3.7	3.65	-0.05	0	0	0	0	0	0	0	0
3/25/2024 14:18	42001	MNVL_T2	9	19	10	0.44	0.34	-0.1	-0.07	-0.03	0	0	0	0	0	0
3/25/2024 14:18	64801	MONE_T2	298	316	18	0.43	0.5	0.07	0	0	0	0	0	0	0	0
3/25/2024 14:19	58402	MORO_T1	1	1	0	0.5	0.2	-0.3	-0.13	-0.14	2	2	0	1500	1500	0
3/25/2024 14:19	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:20	67001	STHI_T2	79	308	229	0.13	0.16	0.03	0	0	0	0	0	0	0	0
3/25/2024 14:20	40602	PIGR_T1	4	4	0	0.58	0.63	0.05	0	0	0	0	0	0	0	0
3/25/2024 14:20	40601	PIGR_T1	208	226	18	0.51	0.49	-0.02	0	0	0	0	0	0	0	0
3/25/2024 14:20	67002	STHI_T2	37	86	49	0.46	0.31	-0.15	0.56	0.56	0	0	0	0	0	0
3/25/2024 14:20	40603	PIGR_T1	4	4	0	0.6	0.73	0.13	0.33	0.33	0	0	0	0	0	0
3/25/2024 14:21	13902	SEID_T1	1	1	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
3/25/2024 14:21	42801	SELI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:21	17804	GILB_T2	4	5	1	0.55	0.48	-0.07	-0.58	-0.59	0	0	0	0	0	0
3/25/2024 14:21	13901	SEID_T1	0	0	0	0	0	0	0.48	0.51	0	0	0	0	0	0
3/25/2024 14:21	45902	AUBU_T1	6	3	-3	0.53	0.63	0.1	-0.83	-0.76	1	1	0	600	600	0
3/25/2024 14:21	47403	PENS_T1	9	17	8	0.93	0.58	-0.35	0	0	0	0	0	0	0	0
3/25/2024 14:21	47402	PENS_T1	3	3	0	0.8	0.83	0.03	0	0	0	0	0	0	0	0
3/25/2024 14:21	42802	SELI_T1	1	2	1	0.1	0.3	0.2	-1.15	-1.09	0	0	0	0	0	0
3/25/2024 14:21	47401	PENS_T1	60	22	-38	0.48	0.46	-0.02	1.15	1.15	0	0	0	0	0	0
3/25/2024 14:21	17805	GILB_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/25/2024 14:21	13905	SEID_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
3/25/2024 14:21	17803	GILB_T2	33	5	-28	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
3/25/2024 14:22	67001	STHI_T2	79	308	229	0.13	0.16	0.03	0	0	0	0	0	0	0	0
3/25/2024 14:22	45902	AUBU_T1	6	3	-3	0.53	0.63	0.1	-0.83	-0.76	1	1	0	600	600	0
3/25/2024 14:22	26002	WDAM_T1	4	7	3	0.63	0.93	0.3	0	0	0	0	0	0	0	0
3/25/2024 14:22	42801	SELI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:22	67002	STHI_T2	37	86	49	0.46	0.31	-0.15	1.12	1.12	0	0	0	0	0	0
3/25/2024 14:22	42802	SELI_T1	1	2	1	0.1	0.3	0.2	-1.15	-1.09	0	0	0	0	0	0
3/25/2024 14:22	26001	WDAM_T1	1	0	-1	0.1	0	-0.1	-0.82	-0.82	0	0	0	0	0	0
3/25/2024 14:23	45302	WBER_T2	5	14	9	0.26	0.21	-0.05	0	0	0	0	0	0	0	0
3/25/2024 14:23	45301	WBER_T2	0	11	11	0	0.14	0.14	0	0	0	0	0	0	0	0
3/25/2024 14:23	67001	STHI_T2	79	308	229	0.13	0.16	0.03	0	0	0	0	0	0	0	0
3/25/2024 14:23	42802	SELI_T1	1	2	1	0.1	0.3	0.2	-3.44	-3.28	0	0	0	0	0	0
3/25/2024 14:23	45303	WBER_T2	9	144	135	0.28	0.33	0.05	-0.01	0.25	0	0	0	0	0	0
3/25/2024 14:23	67002	STHI_T2	37	86	49	0.46	0.31	-0.15	1.12	1.12	0	0	0	0	0	0
3/25/2024 14:23	26001	WDAM_T1	1	0	-1	0.1	0	-0.1	-0.41	-0.41	0	0	0	0	0	0
3/25/2024 14:23	26002	WDAM_T1	4	7	3	0.63	0.93	0.3	0	0	0	0	0	0	0	0
3/25/2024 14:23	42801	SELI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:24	45902	AUBU_T1	6	3	-3	0.53	0.63	0.1	-0.76	-0.73	1	1	0	600	600	0
3/25/2024 14:24	60101	COCA_T1	10	10	0	0.53	0.66	0.13	0.3	0.27	0	0	0	0	0	0
3/25/2024 14:24	16302	ALPA_T2	2	2	0	0.65	0.45	-0.2	0.6	0.67	0	0	0	0	0	0
3/25/2024 14:24	60803	BUCK_T1	0	1	1	0	0.1	0.1	-0.55	-0.55	1	1	0	600	600	0
3/25/2024 14:24	60801	BUCK_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:25	60101	COCA_T1	10	10	0	0.53	0.66	0.13	0.3	0.27	0	0	0	0	0	0
3/25/2024 14:25	61302	EARL_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:25	61304	EARL_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/25/2024 14:25	54501	ENOL_T2	8	9	1	0.68	0.61	-0.07	0.06	0.06	0	0	0	0	0	0
3/25/2024 14:25	20403	ASHF_T2	8	12	4	0.68	0.54	-0.14	-1.71	-1.79	0	0	0	0	0	0
3/25/2024 14:25	60801	BUCK_T1	2	1	-1	0.2	0.1	-0.1	0.2	0.19	0	0	0	0	0	0
3/25/2024 14:25	42801	SELI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:25	46001	BERW_T1	0	0	0	0	0	0	0.9	0.82	0	0	0	0	0	0
3/25/2024 14:25	54502	ENOL_T2	5	6	1	0.32	0.37	0.05	0	0	0	0	0	0	0	0
3/25/2024 14:25	46005	BERW_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:25	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:25	61303	EARL_T1	1	1	0	0.1	0.2	0.1	0.33	0.2	0	0	0	0	0	0
3/25/2024 14:25	54504	ENOL_T2	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
3/25/2024 14:25	13503	MCMI_T2	107	3	-104	0.35	0.47	0.12	-0.01	-0.01	0	0	0	0	0	0
3/25/2024 14:25	54503	ENOL_T2	2	3	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:25	16302	ALPA_T2	2	2	0	0.65	0.45	-0.2	0.6	0.67	0	0	0	0	0	0
3/25/2024 14:25	42802	SELI_T1	1	2	1	0.1	0.3	0.2	-1.09	-1.09	0	0	0	0	0	0
3/25/2024 14:25	54505	ENOL_T2	6	6	0	0.6	0.82	0.22	0	0	0	0	0	0	0	0
3/25/2024 14:26	54504	ENOL_T2	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
3/25/2024 14:26	54502	ENOL_T2	5	6	1	0.32	0.37	0.05	0	0	0	0	0	0	0	0
3/25/2024 14:26	13501	MCMI_T1	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
3/25/2024 14:26	54505	ENOL_T2	6	6	0	0.6	0.82	0.22	-1.37	-1.38	1	1	0	600	600	0
3/25/2024 14:26	13502	MCMI_T1	5	5	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:26	54503	ENOL_T2	2	3	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:26	45902	AUBU_T1	6	3	-3	0.53	0.63	0.1	-1.52	-1.46	2	2	0	1200	1200	0
3/25/2024 14:26	54501	ENOL_T2	8	9	1	0.68	0.61	-0.07	0	0	0	0	0	0	0	0
3/25/2024 14:26	10801	OHHI_T1	7	7	0	0.9	0.74	-0.16	-2.11	-2.1	2	2	0	1800	1800	0
3/25/2024 14:27	54504	ENOL_T2	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
3/25/2024 14:27	54502	ENOL_T2	5	6	1	0.32	0.37	0.05	0	0	0	0	0	0	0	0
3/25/2024 14:27	16302	ALPA_T2	2	2	0	0.65	0.45	-0.2	0.6	0.67	0	0	0	0	0	0
3/25/2024 14:27	54503	ENOL_T2	2	3	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:27	54505	ENOL_T2	6	6	0	0.6	0.82	0.22	-1.37	-1.38	1	1	0	600	600	0
3/25/2024 14:27	54501	ENOL_T2	8	9	1	0.68	0.61	-0.07	0	0	0	0	0	0	0	0
3/25/2024 14:28	54503	ENOL_T2	2	3	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:28	46005	BERW_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:28	54505	ENOL_T2	6	6	0	0.6	0.82	0.22	-2.73	-2.76	2	2	0	1200	1200	0
3/25/2024 14:28	13502	MCMI_T1	5	5	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:28	54502	ENOL_T2	5	6	1	0.32	0.37	0.05	0	0	0	0	0	0	0	0
3/25/2024 14:28	54501	ENOL_T2	8	9	1	0.68	0.61	-0.07	0	0	0	0	0	0	0	0
3/25/2024 14:28	60803	BUCK_T1	0	1	1	0	0.1	0.1	-0.55	-0.55	1	1	0	600	600	0
3/25/2024 14:28	13501	MCMI_T1	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
3/25/2024 14:28	54504	ENOL_T2	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
3/25/2024 14:28	60801	BUCK_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:28	46001	BERW_T1	0	0	0	0	0	0	1.79	1.64	0	0	0	0	0	0
3/25/2024 14:29	61303	EARL_T1	1	1	0	0.1	0.2	0.1	0.99	0.61	0	0	0	0	0	0
3/25/2024 14:29	53902	HALI_T2	5	7	2	1.66	1.27	-0.39	0	0	0	0	0	0	0	0
3/25/2024 14:29	46005	BERW_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:29	61302	EARL_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:29	41601	CLEV_T1	1	1	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:29	53903	HALI_T2	18	19	1	0.63	0.65	0.02	-0.16	-0.16	0	0	0	0	0	0
3/25/2024 14:29	40101	HUNT_T2	3	3	0	0.1	0	-0.1	-0.35	-0.37	0	0	0	0	0	0
3/25/2024 14:29	53901	HALI_T2	2	4	2	0.65	0.7	0.05	0	0	0	0	0	0	0	0
3/25/2024 14:29	41602	CLEV_T1	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
3/25/2024 14:29	61304	EARL_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/25/2024 14:29	46001	BERW_T1	0	0	0	0	0	0	0.9	0.82	0	0	0	0	0	0
3/25/2024 14:30	53903	HALI_T2	19	17	-2	0.61	0.74	0.13	-0.16	-0.16	0	0	0	0	0	0
3/25/2024 14:30	53902	HALI_T2	7	6	-1	1.27	1.37	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:30	53901	HALI_T2	4	4	0	0.63	0.65	0.02	0	0	0	0	0	0	0	0
3/25/2024 14:31	53901	HALI_T2	4	4	0	0.63	0.65	0.02	0	0	0	0	0	0	0	0
3/25/2024 14:31	43201	MVIL_T2	2	3	1	0.35	0.33	-0.02	-0.37	-0.4	0	0	0	0	0	0
3/25/2024 14:31	40101	HUNT_T2	3	0	-3	0.73	0	-0.73	-0.35	-0.37	0	0	0	0	0	0
3/25/2024 14:31	43202	MVIL_T2	66	95	29	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/25/2024 14:31	53902	HALI_T2	7	6	-1	1.27	1.37	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:31	17802	GILB_T1	5	8	3	0.86	0.66	-0.2	0.12	0.12	0	0	0	0	0	0
3/25/2024 14:31	53903	HALI_T2	19	17	-2	0.61	0.74	0.13	-0.16	-0.16	0	0	0	0	0	0
3/25/2024 14:31	45902	AUBU_T1	2	3	1	0.9	0.5	-0.4	-0.76	-0.73	1	1	0	600	600	0
3/25/2024 14:32	17803	GILB_T2	5	0	-5	0.24	0	-0.24	0	0	0	0	0	0	0	0
3/25/2024 14:32	17805	GILB_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:32	59302	MCAL_T1	4	3	-1	0.68	0.5	-0.18	0	0	0	0	0	0	0	0
3/25/2024 14:32	43201	MVIL_T2	2	3	1	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
3/25/2024 14:32	43202	MVIL_T2	66	95	29	0.5	0.8	0.3	-1.16	-1.18	0	0	0	0	0	0
3/25/2024 14:32	17804	GILB_T2	5	4	-1	0.58	0.4	-0.18	-0.59	-0.6	0	0	0	0	0	0
3/25/2024 14:32	59301	MCAL_T1	37	35	-2	0.32	0.33	0.01	-0.83	-0.83	0	0	0	0	0	0
3/25/2024 14:33	64801	MONE_T2	309	318	9	0.49	0.53	0.04	0	0	0	0	0	0	0	0
3/25/2024 14:33	42802	SELI_T1	2	2	0	0.25	0.3	0.05	-2.19	-2.19	0	0	0	0	0	0
3/25/2024 14:33	41902	REED_T1	6	5	-1	0.88	0.84	-0.04	1.14	1.14	0	0	0	0	0	0
3/25/2024 14:33	47401	PENS_T1	21	25	4	0.44	0.42	-0.02	1.15	1.15	0	0	0	0	0	0
3/25/2024 14:33	47403	PENS_T1	17	10	-7	0.54	0.82	0.28	0	0	0	0	0	0	0	0
3/25/2024 14:33	64802	MONE_T2	236	207	-29	0.33	0.31	-0.02	0.24	0.26	0	0	0	0	0	0
3/25/2024 14:33	41901	REED_T1	10	10	0	0.65	0.64	-0.01	0	0	0	0	0	0	0	0
3/25/2024 14:33	42801	SELI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/25/2024 14:33	59402	RFLD_T2	0	0	0	0	0	0	-0.12	-0.13	1	1	0	450	450	0
3/25/2024 14:33	47402	PENS_T1	2	4	2	1.15	0.55	-0.6	0	0	0	0	0	0	0	0
3/25/2024 14:34	64802	MONE_T2	236	207	-29	0.33	0.31	-0.02	0.24	0.26	0	0	0	0	0	0
3/25/2024 14:34	47401	PENS_T1	21	25	4	0.44	0.42	-0.02	2.31	2.29	0	0	0	0	0	0
3/25/2024 14:34	67001	STHI_T2	252	313	61	0.14	0.17	0.03	0	0	0	0	0	0	0	0
3/25/2024 14:34	42901	MIDD_T2	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
3/25/2024 14:34	42902	MIDD_T2	5	8	3	0.62	0.68	0.06	-0.28	-0.36	0	0	0	0	0	0
3/25/2024 14:34	64801	MONE_T2	309	318	9	0.49	0.53	0.04	0	0	0	0	0	0	0	0
3/25/2024 14:34	47403	PENS_T1	17	10	-7	0.54	0.82	0.28	0	0	0	0	0	0	0	0
3/25/2024 14:34	17802	GILB_T1	5	8	3	0.86	0.66	-0.2	0.12	0.12	0	0	0	0	0	0
3/25/2024 14:34	67002	STHI_T2	68	92	24	0.33	0.3	-0.03	0.56	0.57	0	0	0	0	0	0
3/25/2024 14:34	41901	REED_T1	10	10	0	0.65	0.64	-0.01	0	0	0	0	0	0	0	0
3/25/2024 14:34	42903	MIDD_T2	2	2	0	0.75	1.3	0.55	0	0	0	0	0	0	0	0
3/25/2024 14:34	41902	REED_T1	6	5	-1	0.88	0.84	-0.04	1.14	1.14	0	0	0	0	0	0
3/25/2024 14:34	42002	MNVL_T2	2	2	0	3.7	3.65	-0.05	0	0	0	0	0	0	0	0
3/25/2024 14:34	47402	PENS_T1	2	4	2	1.15	0.55	-0.6	0	0	0	0	0	0	0	0
3/25/2024 14:34	42001	MNVL_T2	10	18	8	0.51	0.36	-0.15	-0.03	-0.01	0	0	0	0	0	0
3/25/2024 14:35	42802	SELI_T1	2	2	0	0.25	0.3	0.05	-1.09	-1.09	0	0	0	0	0	0
3/25/2024 14:35	44601	SALE_T2	0	0	0	0	0	0	0.26	0.2	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/25/2024 14:35	47402	PENS_T1	2	4	2	1.15	0.55	-0.6	0	0	0	0	0	0	0	0
3/25/2024 14:35	42001	MNVL_T2	10	18	8	0.51	0.36	-0.15	-0.03	-0.01	0	0	0	0	0	0
3/25/2024 14:35	42002	MNVL_T2	2	2	0	3.7	3.65	-0.05	0	0	0	0	0	0	0	0
3/25/2024 14:35	47401	PENS_T1	21	25	4	0.44	0.42	-0.02	1.15	1.15	0	0	0	0	0	0
3/25/2024 14:35	15703	TANN_T2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
3/25/2024 14:35	47403	PENS_T1	17	10	-7	0.54	0.82	0.28	0	0	0	0	0	0	0	0
3/25/2024 14:35	15704	TANN_T1	0	0	0	0	0	0	0	-1.22	0	0	0	0	0	0
3/25/2024 14:35	42801	SELI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/25/2024 14:35	59402	RFLD_T2	0	0	0	0	0	0	-0.12	-0.13	1	1	0	450	450	0
3/25/2024 14:36	40602	PIGR_T1	3	4	1	0.77	0.6	-0.17	0	0	0	0	0	0	0	0
3/25/2024 14:36	47403	PENS_T1	17	10	-7	0.54	0.82	0.28	0	0	0	0	0	0	0	0
3/25/2024 14:36	51302	WIND_T2	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:36	47401	PENS_T1	21	25	4	0.44	0.42	-0.02	1.15	1.15	0	0	0	0	0	0
3/25/2024 14:36	47402	PENS_T1	2	4	2	1.15	0.55	-0.6	0	0	0	0	0	0	0	0
3/25/2024 14:36	44601	SALE_T2	0	0	0	0	0	0	0.26	0.2	1	1	0	600	600	0
3/25/2024 14:36	40601	PIGR_T1	222	231	9	0.47	0.57	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:36	51306	WIND_T2	4	6	2	0.45	0.42	-0.03	0.11	0.11	0	0	0	0	0	0
3/25/2024 14:36	51304	WIND_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/25/2024 14:36	41902	REED_T1	6	5	-1	0.88	0.84	-0.04	1.14	1.14	0	0	0	0	0	0
3/25/2024 14:36	67001	STHI_T2	252	313	61	0.14	0.17	0.03	0	0	0	0	0	0	0	0
3/25/2024 14:36	41901	REED_T1	10	10	0	0.65	0.64	-0.01	0	0	0	0	0	0	0	0
3/25/2024 14:36	40603	PIGR_T1	4	4	0	0.7	0.73	0.03	0.33	0.33	0	0	0	0	0	0
3/25/2024 14:36	59402	RFLD_T2	0	0	0	0	0	0	-0.12	-0.13	1	1	0	450	450	0
3/25/2024 14:36	67002	STHI_T2	68	92	24	0.33	0.3	-0.03	0.56	0.57	0	0	0	0	0	0
3/25/2024 14:37	47403	PENS_T1	17	10	-7	0.54	0.82	0.28	0	0	0	0	0	0	0	0
3/25/2024 14:37	45601	WOOL_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:37	58003	WCAR_T1	61	68	7	0.39	0.43	0.04	0.82	0.77	0	0	0	0	0	0
3/25/2024 14:37	58001	WCAR_T1	20	20	0	0.62	0.63	0.01	0	0	0	0	0	0	0	0
3/25/2024 14:37	47402	PENS_T1	2	4	2	1.15	0.55	-0.6	0	0	0	0	0	0	0	0
3/25/2024 14:37	47401	PENS_T1	21	25	4	0.44	0.42	-0.02	2.31	2.29	0	0	0	0	0	0
3/25/2024 14:37	45602	WOOL_T1	10	11	1	0.61	0.64	0.03	0.39	0.43	0	0	0	0	0	0
3/25/2024 14:38	44301	BEAV_T2	22	2	-20	0.39	0.3	-0.09	0	0	0	0	0	0	0	0
3/25/2024 14:38	16302	ALPA_T2	2	2	0	0.45	0.3	-0.15	0.67	0.64	0	0	0	0	0	0
3/25/2024 14:38	44302	BEAV_T2	19	24	5	0.56	0.58	0.02	0.26	0.29	0	0	0	0	0	0
3/25/2024 14:38	67002	STHI_T2	68	92	24	0.33	0.3	-0.03	1.12	1.14	0	0	0	0	0	0
3/25/2024 14:38	42801	SELI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/25/2024 14:38	13501	MCMI_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
3/25/2024 14:38	26002	WDAM_T1	6	10	4	0.77	0.74	-0.03	0	0	0	0	0	0	0	0
3/25/2024 14:38	13502	MCMI_T1	5	5	0	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
3/25/2024 14:38	67001	STHI_T2	252	313	61	0.14	0.17	0.03	0	0	0	0	0	0	0	0
3/25/2024 14:38	26001	WDAM_T1	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
3/25/2024 14:38	42802	SELI_T2	2	2	0	0.25	0.3	0.05	-4.37	-4.38	0	0	0	0	0	0
3/25/2024 14:39	43201	MVIL_T2	2	3	1	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
3/25/2024 14:39	51304	WIND_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/25/2024 14:39	42801	SELI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/25/2024 14:39	43202	MVIL_T2	66	95	29	0.5	0.8	0.3	-0.59	-0.65	0	0	0	0	0	0
3/25/2024 14:39	45302	WBER_T2	11	20	9	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
3/25/2024 14:39	16302	ALPA_T2	2	2	0	0.45	0.3	-0.15	0.67	0.64	0	0	0	0	0	0
3/25/2024 14:39	58001	WCAR_T1	20	20	0	0.62	0.63	0.01	0	0	0	0	0	0	0	0
3/25/2024 14:39	67001	STHI_T2	252	313	61	0.14	0.17	0.03	0	0	0	0	0	0	0	0
3/25/2024 14:39	45301	WBER_T2	4	24	20	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
3/25/2024 14:39	57401	SPAN_T1	10	19	9	0.78	0.55	-0.23	0	0	0	0	0	0	0	0
3/25/2024 14:39	65802	RTWN_T2	5	7	2	0.92	0.7	-0.22	-0.45	-0.48	0	0	0	0	0	0
3/25/2024 14:39	58003	WCAR_T1	61	68	7	0.39	0.43	0.04	0.77	0.78	0	0	0	0	0	0
3/25/2024 14:39	65803	RTWN_T2	4	6	2	0.58	0.42	-0.16	0	0	0	0	0	0	0	0
3/25/2024 14:39	67002	STHI_T2	68	92	24	0.33	0.3	-0.03	0.57	0.57	0	0	0	0	0	0
3/25/2024 14:39	51306	WIND_T2	4	6	2	0.45	0.42	-0.03	0.11	0.1	0	0	0	0	0	0
3/25/2024 14:39	51302	WIND_T2	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:39	45303	WBER_T2	79	153	74	0.39	0.34	-0.05	0.31	0.42	0	0	0	0	0	0
3/25/2024 14:39	57403	SPAN_T1	181	185	4	0.62	0.84	0.22	0.02	0.02	0	0	0	0	0	0
3/25/2024 14:39	42802	SELI_T1	2	2	0	0.25	0.3	0.05	-1.09	-1.17	0	0	0	0	0	0
3/25/2024 14:40	16302	ALPA_T2	2	2	0	0.45	0.3	-0.15	0.67	0.64	0	0	0	0	0	0
3/25/2024 14:40	67603	WARW_T1	1	2	1	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
3/25/2024 14:40	67605	WARW_T1	47	60	13	0.54	0.59	0.05	-2.16	-2.16	0	0	0	0	0	0
3/25/2024 14:40	45602	WOOL_T1	10	11	1	0.61	0.64	0.03	0.43	0.39	0	0	0	0	0	0
3/25/2024 14:40	45902	AUBU_T1	2	3	1	0.9	0.5	-0.4	-0.73	-0.66	1	1	0	600	600	0
3/25/2024 14:40	67604	WARW_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:40	45601	WOOL_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:40	60801	BUCK_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/25/2024 14:40	51603	DUKE_T1	5	5	0	0.76	0.7	-0.06	-0.44	-0.53	0	0	0	0	0	0
3/25/2024 14:40	60101	COCA_T1	10	11	1	0.65	0.63	-0.02	0.27	0.25	0	0	0	0	0	0
3/25/2024 14:40	51601	DUKE_T1	5	6	1	0.38	0.45	0.07	0	0	0	0	0	0	0	0
3/25/2024 14:40	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	-0.55	-0.56	1	1	0	600	600	0
3/25/2024 14:40	13503	MCMI_T2	3	1	-2	0.47	0.7	0.23	-0.01	-0.01	0	0	0	0	0	0
3/25/2024 14:41	45601	WOOL_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:41	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:41	45602	WOOL_T1	10	11	1	0.61	0.64	0.03	0.43	0.39	0	0	0	0	0	0
3/25/2024 14:41	60101	COCA_T1	10	11	1	0.65	0.63	-0.02	0.27	0.25	0	0	0	0	0	0
3/25/2024 14:41	60904	DONG_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/25/2024 14:41	10805	CHHI_T2	2	2	0	4.5	4.3	-0.2	-0.53	-0.6	1	1	0	600	600	0
3/25/2024 14:41	51304	WIND_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/25/2024 14:41	20403	ASHF_T2	6	43	37	0.7	0.32	-0.38	-1.79	-1.87	0	0	0	0	0	0
3/25/2024 14:41	51302	WIND_T2	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:41	60901	DONG_T2	4	7	3	0.33	0.44	0.11	0	0	0	0	0	0	0	0
3/25/2024 14:41	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/25/2024 14:41	51306	WIND_T2	4	6	2	0.45	0.42	-0.03	0.11	0.1	0	0	0	0	0	0
3/25/2024 14:41	60902	DONG_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
3/25/2024 14:41	60801	BUCK_T1	1	2	1	0.1	0.3	0.2	0.19	0.13	0	0	0	0	0	0
3/25/2024 14:41	60903	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/25/2024 14:42	45601	WOOL_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:42	45602	WOOL_T1	10	11	1	0.61	0.64	0.03	0.43	0.39	0	0	0	0	0	0
3/25/2024 14:42	13502	MCMI_T1	5	5	0	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
3/25/2024 14:42	51603	DUKE_T1	5	5	0	0.76	0.7	-0.06	-0.44	-0.53	0	0	0	0	0	0
3/25/2024 14:42	67401	WAKE_T2	7	35	28	0.53	0.34	-0.19	-1.1	-1	0	0	0	0	0	0
3/25/2024 14:42	40101	HUNT_T2	3	0	-3	0.73	0	-0.73	-0.37	-0.38	0	0	0	0	0	0
3/25/2024 14:42	45902	AUBU_T1	2	3	1	0.9	0.5	-0.4	-1.46	-1.32	2	2	0	1200	1200	0
3/25/2024 14:42	51601	DUKE_T1	5	6	1	0.38	0.45	0.07	0	0	0	0	0	0	0	0
3/25/2024 14:42	67402	WAKE_T2	0	9	9	0	0.31	0.31	0	0	0	0	0	0	0	0
3/25/2024 14:42	13501	MCMI_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
3/25/2024 14:42	10801	CHHI_T1	7	7	0	0.66	0.69	0.03	-2.1	-2.07	2	2	0	1800	1800	0
3/25/2024 14:43	45902	AUBU_T1	2	3	1	0.9	0.5	-0.4	-1.46	-1.32	2	2	0	1200	1200	0
3/25/2024 14:43	29401	BELT_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/25/2024 14:43	26002	WDAM_T1	6	10	4	0.77	0.74	-0.03	0	0	0	0	0	0	0	0
3/25/2024 14:43	11507	FREE_T2	0	0	0	0	0	0	1.46	1.44	0	0	0	0	0	0
3/25/2024 14:43	29402	BELT_T1	3	4	1	2.63	2.1	-0.53	0	0	0	0	0	0	0	0
3/25/2024 14:43	40101	HUNT_T2	3	0	-3	0.73	0	-0.73	-0.37	-0.38	0	0	0	0	0	0
3/25/2024 14:43	41502	FAIR_T2	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
3/25/2024 14:43	26001	WDAM_T1	0	0	0	0	0	0	-0.82	-0.8	0	0	0	0	0	0
3/25/2024 14:44	45402	WBLO_T2	3	42	39	0.47	0.26	-0.21	-0.89	-0.85	0	0	0	0	0	0
3/25/2024 14:44	60801	BUCK_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/25/2024 14:44	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	-0.55	-0.56	1	1	0	600	600	0
3/25/2024 14:44	46005	BERW_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
3/25/2024 14:44	46001	BERW_T1	0	0	0	0	0	0	1.64	2.02	0	0	0	0	0	0
3/25/2024 14:44	40101	HUNT_T2	3	0	-3	0.73	0	-0.73	-0.37	-0.38	0	0	0	0	0	0
3/25/2024 14:45	53902	HALI_T2	4	6	2	1.95	1.3	-0.65	0	0	0	0	0	0	0	0
3/25/2024 14:45	53901	HALI_T2	4	2	-2	0.65	0.8	0.15	0	0	0	0	0	0	0	0
3/25/2024 14:45	40101	HUNT_T2	0	1	1	0	0	0	-0.73	-0.75	0	0	0	0	0	0
3/25/2024 14:45	53903	HALI_T2	14	18	4	0.74	0.69	-0.05	-0.16	-0.16	0	0	0	0	0	0
3/25/2024 14:45	17802	GILB_T1	6	8	2	0.67	0.71	0.04	0.12	0.09	0	0	0	0	0	0
3/25/2024 14:46	55001	NEWP_T1	15	10	-5	0.45	0.49	0.04	-0.19	-0.22	0	0	0	0	0	0
3/25/2024 14:46	53903	HALI_T2	14	18	4	0.74	0.69	-0.05	-0.16	-0.16	0	0	0	0	0	0
3/25/2024 14:46	55002	NEWP_T1	15	14	-1	1.17	1.16	-0.01	0	0	0	0	0	0	0	0
3/25/2024 14:46	17804	GILB_T2	3	3	0	0.47	0.53	0.06	0	0	0	0	0	0	0	0
3/25/2024 14:46	53902	HALI_T2	4	6	2	1.95	1.3	-0.65	0	0	0	0	0	0	0	0
3/25/2024 14:46	17805	GILB_T2	1	3	2	0.3	0.23	-0.07	-0.02	-0.05	0	0	0	0	0	0
3/25/2024 14:46	53901	HALI_T2	4	2	-2	0.65	0.8	0.15	0	0	0	0	0	0	0	0
3/25/2024 14:47	42902	MIDD_T2	8	11	3	0.68	0.71	0.03	-0.71	-0.52	0	0	0	0	0	0
3/25/2024 14:47	17802	GILB_T1	6	8	2	0.67	0.71	0.04	0.12	0.09	0	0	0	0	0	0
3/25/2024 14:47	53903	HALI_T2	14	18	4	0.74	0.69	-0.05	-0.16	-0.16	0	0	0	0	0	0
3/25/2024 14:47	42903	MIDD_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
3/25/2024 14:47	42901	MIDD_T2	2	3	1	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
3/25/2024 14:47	45902	AUBU_T1	3	3	0	0.5	0.43	-0.07	-0.73	-0.66	1	1	0	600	600	0
3/25/2024 14:47	43201	MVIL_T2	1	3	2	0.4	0.33	-0.07	-0.4	-0.39	0	0	0	0	0	0
3/25/2024 14:47	53902	HALI_T2	4	6	2	1.95	1.3	-0.65	0	0	0	0	0	0	0	0
3/25/2024 14:47	45602	WOOL_T1	11	10	-1	0.59	0.71	0.12	0.43	0.39	0	0	0	0	0	0
3/25/2024 14:47	53901	HALI_T2	4	2	-2	0.65	0.8	0.15	0	0	0	0	0	0	0	0
3/25/2024 14:47	43202	MVIL_T2	81	95	14	0.5	0.86	0.36	-0.59	-0.65	0	0	0	0	0	0
3/25/2024 14:47	45601	WOOL_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/25/2024 14:48	55002	NEWP_T1	15	14	-1	1.17	1.16	-0.01	-0.2	-0.2	0	0	0	0	0	0
3/25/2024 14:48	55001	NEWP_T1	15	10	-5	0.45	0.49	0.04	0	0	0	0	0	0	0	0
3/25/2024 14:48	43202	MVIL_T2	81	95	14	0.5	0.86	0.36	-0.59	-0.65	0	0	0	0	0	0
3/25/2024 14:48	42902	MIDD_T2	8	11	3	0.68	0.71	0.03	-0.36	-0.26	0	0	0	0	0	0
3/25/2024 14:48	42903	MIDD_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
3/25/2024 14:48	17805	GILB_T2	1	3	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
3/25/2024 14:48	17804	GILB_T2	3	3	0	0.47	0.53	0.06	-0.6	-0.61	0	0	0	0	0	0
3/25/2024 14:48	14402	SSLA_T1	64	165	101	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
3/25/2024 14:48	43201	MVIL_T2	1	3	2	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
3/25/2024 14:48	14404	SSLA_T1	50	154	104	0.4	0.26	-0.14	0	0	0	0	0	0	0	0
3/25/2024 14:48	58401	MORO_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:48	42901	MIDD_T2	2	3	1	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
3/25/2024 14:48	14401	SSLA_T1	11	19	8	0.69	0.58	-0.11	0	0	0	0	0	0	0	0
3/25/2024 14:48	52501	PROG_T1	3	2	-1	0.27	0.25	-0.02	0.45	0.52	1	1	0	300	300	0
3/25/2024 14:48	58402	MORO_T1	1	1	0	0.2	0.1	-0.1	-0.11	0.19	2	2	0	1500	1500	0
3/25/2024 14:48	14403	SSLA_T1	10	13	3	0.54	0.44	-0.1	0.65	0.65	0	0	0	0	0	0
3/25/2024 14:49	43102	SMIL_T2	8	10	2	0.74	0.74	0	0	0	0	0	0	0	0	0
3/25/2024 14:49	64802	MONE_T2	153	220	67	0.29	0.32	0.03	0.26	0.25	0	0	0	0	0	0
3/25/2024 14:49	43104	SMIL_T2	5	6	1	0.68	0.7	0.02	0	0	0	0	0	0	0	0
3/25/2024 14:49	43105	SMIL_T2	14	17	3	0.41	0.48	0.07	0	0	0	0	0	0	0	0
3/25/2024 14:49	67001	STHI_T2	292	329	37	0.16	0.19	0.03	0	0	0	0	0	0	0	0
3/25/2024 14:49	46301	ROHR_T1	28	107	79	0.42	0.25	-0.17	0	0	0	0	0	0	0	0
3/25/2024 14:49	43108	SMIL_T2	4	4	0	0.35	0.48	0.13	0	0	0	0	0	0	0	0
3/25/2024 14:49	41901	REED_T1	10	0	-10	0.64	0	-0.64	0	0	0	0	0	0	0	0
3/25/2024 14:49	43103	SMIL_T2	26	28	2	0.72	0.88	0.16	-0.9	-0.88	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/25/2024 14:49	52501	PROG_T1	3	2	-1	0.27	0.25	-0.02	0.9	1.05	2	2	0	600	600	0
3/25/2024 14:49	64801	MONE_T2	294	331	37	0.45	0.53	0.08	0	0	0	0	0	0	0	0
3/25/2024 14:49	46302	ROHR_T1	6	10	4	1.63	1.28	-0.35	0.11	0.16	0	0	0	0	0	0
3/25/2024 14:49	41902	REED_T1	5	4	-1	0.84	0.68	-0.16	1.14	1.15	0	0	0	0	0	0
3/25/2024 14:49	67002	STHI_T2	82	101	19	0.31	0.28	-0.03	0.57	0.57	0	0	0	0	0	0
3/25/2024 14:49	43101	SMIL_T2	4	4	0	1.18	1.08	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:50	42001	MNVL_T2	18	8	-10	0.35	0.39	0.04	-0.01	-0.05	0	0	0	0	0	0
3/25/2024 14:50	47401	PENS_T1	14	34	20	0.58	0.37	-0.21	1.15	1.14	0	0	0	0	0	0
3/25/2024 14:50	43202	MVIL_T2	81	95	14	0.5	0.86	0.36	-0.59	-0.65	0	0	0	0	0	0
3/25/2024 14:50	14402	SSLA_T1	64	165	101	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
3/25/2024 14:50	55002	NEWP_T1	15	14	-1	1.17	1.16	-0.01	-0.2	-0.2	0	0	0	0	0	0
3/25/2024 14:50	67001	STHI_T2	292	329	37	0.16	0.19	0.03	0	0	0	0	0	0	0	0
3/25/2024 14:50	14401	SSLA_T1	11	19	8	0.69	0.58	-0.11	0	0	0	0	0	0	0	0
3/25/2024 14:50	58401	MORO_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:50	43201	MVIL_T2	1	3	2	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
3/25/2024 14:50	42902	MIDD_T2	8	11	3	0.68	0.71	0.03	-0.71	-0.52	0	0	0	0	0	0
3/25/2024 14:50	14404	SSLA_T1	50	154	104	0.4	0.26	-0.14	0	0	0	0	0	0	0	0
3/25/2024 14:50	67002	STHI_T2	82	101	19	0.31	0.28	-0.03	0.57	0.57	0	0	0	0	0	0
3/25/2024 14:50	58402	MORO_T1	1	1	0	0.2	0.1	-0.1	-0.11	-0.19	2	2	0	1500	1500	0
3/25/2024 14:50	42901	MIDD_T2	2	3	1	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
3/25/2024 14:50	42903	MIDD_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
3/25/2024 14:50	55001	NEWP_T1	15	10	-5	0.45	0.49	0.04	0	0	0	0	0	0	0	0
3/25/2024 14:50	14403	SSLA_T1	10	13	3	0.54	0.44	-0.1	0.65	0.65	0	0	0	0	0	0
3/25/2024 14:50	47402	PENS_T1	3	4	1	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
3/25/2024 14:50	47403	PENS_T1	9	11	2	0.89	0.68	-0.21	0	0	0	0	0	0	0	0
3/25/2024 14:50	42002	MNVL_T2	2	2	0	3.65	3.55	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:51	42001	MNVL_T2	18	8	-10	0.35	0.39	0.04	-0.01	-0.05	0	0	0	0	0	0
3/25/2024 14:51	42002	MNVL_T2	2	2	0	3.65	3.55	-0.1	0	0	0	0	0	0	0	0
3/25/2024 14:52	47402	PENS_T1	3	4	1	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
3/25/2024 14:52	47401	PENS_T1	14	34	20	0.58	0.37	-0.21	2.29	2.28	0	0	0	0	0	0
3/25/2024 14:52	47403	PENS_T1	9	11	2	0.89	0.68	-0.21	0	0	0	0	0	0	0	0
3/25/2024 14:52	46302	ROHR_T1	6	10	4	1.63	1.28	-0.35	0.11	0.16	0	0	0	0	0	0
3/25/2024 14:52	45601	WOOL_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/25/2024 14:52	46301	ROHR_T1	28	107	79	0.42	0.25	-0.17	0	0	0	0	0	0	0	0
3/25/2024 14:52	67002	STHI_T2	82	101	19	0.31	0.28	-0.03	0.57	0.57	0	0	0	0	0	0
3/25/2024 14:52	45602	WOOL_T1	11	10	-1	0.59	0.71	0.12	0.86	0.79	0	0	0	0	0	0
3/25/2024 14:52	67001	STHI_T2	292	329	37	0.16	0.19	0.03	0	0	0	0	0	0	0	0
3/25/2024 14:53	16301	ALPA_T1	65	94	29	0.22	0.22	0	-0.47	-0.47	0	0	0	0	0	0
3/25/2024 14:53	58003	WCAR_T1	64	74	10	0.36	0.45	0.09	0.78	0.8	0	0	0	0	0	0
3/25/2024 14:53	58001	WCAR_T1	12	22	10	0.8	0.49	-0.31	0	0	0	0	0	0	0	0
3/25/2024 14:54	13502	MCMI_T1	5	3	-2	0.22	0.23	0.01	0	0	0	0	0	0	0	0
3/25/2024 14:54	13501	MCMI_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
3/25/2024 14:54	67001	STHI_T2	292	329	37	0.16	0.19	0.03	0	0	0	0	0	0	0	0
3/25/2024 14:54	42201	SHEN_T2	4	4	0	0.73	0.8	0.07	-0.14	-0.11	1	1	0	600	600	0
3/25/2024 14:54	67002	STHI_T2	82	101	19	0.31	0.28	-0.03	1.14	1.14	0	0	0	0	0	0
3/25/2024 14:55	16301	ALPA_T1	65	94	29	0.22	0.22	0	-0.93	-0.93	0	0	0	0	0	0
3/25/2024 14:55	58001	WCAR_T1	12	22	10	0.8	0.49	-0.31	0	0	0	0	0	0	0	0
3/25/2024 14:55	56803	BENV_T1	13	6	-7	0.63	0.95	0.32	0	0	0	0	0	0	0	0
3/25/2024 14:55	56801	BENV_T1	42	29	-13	0.97	0.76	-0.21	-0.39	-0.44	0	0	0	0	0	0
3/25/2024 14:55	58003	WCAR_T1	64	74	10	0.36	0.45	0.09	0.78	0.8	0	0	0	0	0	0
3/25/2024 14:56	16301	ALPA_T1	65	94	29	0.22	0.22	0	-0.47	-0.47	0	0	0	0	0	0
3/25/2024 14:56	56803	BENV_T1	13	6	-7	0.63	0.95	0.32	0	0	0	0	0	0	0	0
3/25/2024 14:56	56801	BENV_T1	42	29	-13	0.97	0.76	-0.21	-0.58	-0.65	0	0	0	0	0	0
3/25/2024 14:57	45602	WOOL_T1	11	10	-1	0.59	0.71	0.12	0.39	0.35	0	0	0	0	0	0
3/25/2024 14:57	56801	BENV_T1	42	29	-13	0.97	0.76	-0.21	-0.39	-0.44	0	0	0	0	0	0
3/25/2024 14:57	13503	MCMI_T2	1	1	0	0.5	0.7	0.2	-0.01	-0.01	0	0	0	0	0	0
3/25/2024 14:57	56803	BENV_T1	13	6	-7	0.63	0.95	0.32	0	0	0	0	0	0	0	0
3/25/2024 14:57	45601	WOOL_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/25/2024 14:58	56803	BENV_T1	13	6	-7	0.63	0.95	0.32	0	0	0	0	0	0	0	0
3/25/2024 14:58	13502	MCMI_T1	5	3	-2	0.22	0.23	0.01	0	0	0	0	0	0	0	0
3/25/2024 14:58	66504	SMAN_T2	9	7	-2	0.41	0.47	0.06	0	0	0	0	0	0	0	0
3/25/2024 14:58	66501	SMAN_T2	2	2	0	1.35	1.2	-0.15	0	0	0	0	0	0	0	0
3/25/2024 14:58	45902	AUBU_T1	3	3	0	0.5	0.43	-0.07	-0.66	-0.66	1	1	0	600	600	0
3/25/2024 14:58	63401	HONY_T1	0	0	0	0	0	0	-0.1	-0.13	1	1	0	600	600	0
3/25/2024 14:58	41502	FAIR_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
3/25/2024 14:58	56801	BENV_T1	42	29	-13	0.97	0.76	-0.21	-0.19	-0.22	0	0	0	0	0	0
3/25/2024 14:58	66502	SMAN_T2	22	20	-2	0.34	0.35	0.01	0	0	0	0	0	0	0	0
3/25/2024 14:58	16301	ALPA_T1	65	94	29	0.22	0.22	0	-0.47	-0.47	0	0	0	0	0	0
3/25/2024 14:58	66503	SMAN_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:58	45602	WOOL_T1	11	10	-1	0.59	0.71	0.12	0.39	0.35	0	0	0	0	0	0
3/25/2024 14:58	45601	WOOL_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/25/2024 14:58	63404	HONY_T1	26	81	55	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
3/25/2024 14:58	13501	MCMI_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
3/25/2024 14:58	66505	SMAN_T2	5	5	0	0.56	0.76	0.2	-0.08	0.03	2	2	0	1100	1100	0
3/25/2024 14:59	40903	JESH_T1	1	6	5	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:59	40901	JESH_T1	2	3	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/25/2024 14:59	40902	JESH_T1	12	39	27	0.43	0.28	-0.15	-0.82	-0.8	0	0	0	0	0	0
3/25/2024 15:00	46004	BERW_T2	2	2	0	0.3	0.45	0.15	-0.21	-0.24	0	0	0	0	0	0
3/25/2024 15:00	46002	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 15:01	66502	SMAN_T2	20	7	-13	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
3/25/2024 15:01	66503	SMAN_T2	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/25/2024 15:01	66504	SMAN_T2	7	2	-5	0.47	0.65	0.18	0	0	0	0	0	0	0	0
3/25/2024 15:01	66505	SMAN_T2	5	4	-1	0.72	0.85	0.13	-0.08	0.03	2	2	0	1100	1100	0
3/25/2024 15:01	66501	SMAN_T2	2	2	0	1.2	1.05	-0.15	0	0	0	0	0	0	0	0
3/25/2024 15:03	45902	AUBU_T1	2	3	1	0.6	0.37	-0.23	-0.66	-0.66	1	1	0	600	600	0
3/25/2024 15:04	58402	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/25/2024 15:04	58401	MORO_T1	1	0	-1	0.2	0	-0.2	-1.12	-1.07	1	1	0	600	600	0
3/25/2024 15:05	41902	REED_T1	4	4	0	0.68	0.38	-0.3	2.3	2.1	0	0	0	0	0	0
3/25/2024 15:05	43102	SMIL_T2	10	10	0	0.71	0.73	0.02	0	0	0	0	0	0	0	0
3/25/2024 15:05	43104	SMIL_T2	5	6	1	0.76	0.65	-0.11	-0.84	-0.84	1	1	0	300	300	0
3/25/2024 15:05	43105	SMIL_T2	16	0	0	0.43	0.48	0.05	0	0	0	0	0	0	0	0
3/25/2024 15:05	46302	ROHR_T1	10	15	5	1.27	0.93	-0.34	0.16	0.11	0	0	0	0	0	0
3/25/2024 15:05	46301	ROHR_T1	98	120	22	0.25	0.26	0.01	0	0	0	0	0	0	0	0
3/25/2024 15:05	43103	SMIL_T2	28	26	-2	0.79	0.91	0.12	0	0	0	0	0	0	0	0
3/25/2024 15:05	64801	MONE_T2	316	323	7	0.53	0.52	-0.01	0	0	0	0	0	0	0	0
3/25/2024 15:05	43108	SMIL_T2	4	4	0	0.48	0.48	0	0	0	0	0	0	0	0	0
3/25/2024 15:05	64802	MONE_T2	199	223	24	0.31	0.32	0.01	0.25	0.26	0	0	0	0	0	0
3/25/2024 15:05	43101	SMIL_T2	4	4	0	0.83	1.08	0.25	0	0	0	0	0	0	0	0
3/25/2024 15:06	47401	PENS_T1	23	32	9	0.41	0.37	-0.04	1.14	1.15	0	0	0	0	0	0
3/25/2024 15:06	47402	PENS_T1	4	3	-1	0.5	0.67	0.17	0	0	0	0	0	0	0	0
3/25/2024 15:06	47403	PENS_T1	10	9	-1	0.71	0.79	0.08	0	0	0	0	0	0	0	0
3/25/2024 15:07	41902	REED_T1	4	4	0	0.68	0.38	-0.3	1.15	1.05	0	0	0	0	0	0
3/25/2024 15:08	64101	REFR_T1	9	5	-4	0.34	0.22	-0.12	-0.16	-0.15	0	0	0	0	0	0
3/25/2024 15:08	46302	ROHR_T1	10	15	5	1.27	0.93	-0.34	0.16	0.11	0	0	0	0	0	0
3/25/2024 15:08	45602	WOOL_T1	9	10	1	0.72	0.69	-0.03	0.79	0.7	0	0	0	0	0	0
3/25/2024 15:08	45601	WOOL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/25/2024 15:08	46301	ROHR_T1	98	120	22	0.25	0.26	0.01	0	0	0	0	0	0	0	0
3/25/2024 15:09	13902	SEID_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/25/2024 15:09	13905	SEID_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
3/25/2024 15:09	13901	SEID_T1	0	0	0	0	0	0	0.51	0.48	0	0	0	0	0	0
3/25/2024 15:10	57401	SPAN_T1	17	21	4	0.58	0.48	-0.1	0	0	0	0	0	0	0	0
3/25/2024 15:10	64101	REFR_T1	9	5	-4	0.34	0.22	-0.12	-0.15	-0.16	0	0	0	0	0	0
3/25/2024 15:10	57403	SPAN_T1	184	183	-1	0.83	0.71	-0.12	-0.03	-0.05	0	0	0	0	0	0
3/25/2024 15:10	42201	SHEN_T2	2	4	2	1.25	0.83	-0.42	-0.11	-0.11	1	1	0	600	600	0
3/25/2024 15:11	46002	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 15:11	54502	ENOL_T2	26	67	41	0.25	0.19	-0.06	-1.17	-1.17	1	1	0	600	600	0
3/25/2024 15:11	46004	BERW_T2	2	2	0	0.3	0.45	0.15	-0.24	-0.22	0	0	0	0	0	0
3/25/2024 15:11	52004	LING_T2	25	42	17	0.54	0.39	-0.15	0.12	0.11	0	0	0	0	0	0
3/25/2024 15:11	54505	ENOL_T2	5	6	1	0.72	0.9	0.18	0	0	0	0	0	0	0	0
3/25/2024 15:11	54503	ENOL_T2	3	4	1	0.33	0.35	0.02	0	0	0	0	0	0	0	0
3/25/2024 15:11	52002	LING_T2	2	4	2	1	0.6	-0.4	0	0	0	0	0	0	0	0
3/25/2024 15:11	54501	ENOL_T2	8	8	0	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
3/25/2024 15:11	54504	ENOL_T2	2	3	1	0.95	0.67	-0.28	0	0	0	0	0	0	0	0
3/25/2024 15:11	52006	LING_T2	3	5	2	0.7	0.9	0.2	0	0	0	0	0	0	0	0
3/25/2024 15:11	41602	CLEV_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
3/25/2024 15:11	41601	CLEV_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
3/25/2024 15:12	54501	ENOL_T2	8	8	0	0.55	0.53	-0.02	0.06	0.07	0	0	0	0	0	0
3/25/2024 15:12	54503	ENOL_T2	3	4	1	0.33	0.35	0.02	-1.34	-1.37	1	1	0	600	600	0
3/25/2024 15:12	54505	ENOL_T2	5	6	1	0.72	0.9	0.18	0	0	0	0	0	0	0	0
3/25/2024 15:12	54504	ENOL_T2	2	3	1	0.95	0.67	-0.28	0	0	0	0	0	0	0	0
3/25/2024 15:12	54502	ENOL_T2	26	67	41	0.25	0.19	-0.06	0	0	0	0	0	0	0	0
3/25/2024 15:13	54505	ENOL_T2	5	6	1	0.72	0.9	0.18	0	0	0	0	0	0	0	0
3/25/2024 15:13	17805	GILB_T2	1	3	2	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
3/25/2024 15:13	54504	ENOL_T2	2	3	1	0.95	0.67	-0.28	0	0	0	0	0	0	0	0
3/25/2024 15:13	54502	ENOL_T2	26	67	41	0.25	0.19	-0.06	-1.17	-1.17	1	1	0	600	600	0
3/25/2024 15:13	54501	ENOL_T2	8	8	0	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
3/25/2024 15:13	45601	WOOL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/25/2024 15:13	17804	GILB_T2	3	3	0	0.5	0.67	0.17	-0.6	-0.6	0	0	0	0	0	0
3/25/2024 15:13	45902	AUBU_T1	2	3	1	0.6	0.37	-0.23	-0.66	-0.73	1	1	0	600	600	0
3/25/2024 15:13	45602	WOOL_T1	9	10	1	0.72	0.69	-0.03	0.7	0.67	0	0	0	0	0	0
3/25/2024 15:13	54503	ENOL_T2	3	4	1	0.33	0.35	0.02	-1.34	-1.37	1	1	0	600	600	0
3/25/2024 15:15	54503	ENOL_T2	4	2	-2	0.35	0.35	0	-1.34	-1.37	1	1	0	600	600	0
3/25/2024 15:15	54501	ENOL_T2	8	7	-1	0.5	0.41	-0.09	0	0	0	0	0	0	0	0
3/25/2024 15:15	54505	ENOL_T2	6	3	-3	0.9	0.93	0.03	0	0	0	0	0	0	0	0
3/25/2024 15:15	54502	ENOL_T2	67	9	-58	0.19	0.32	0.13	0	0	0	0	0	0	0	0
3/25/2024 15:15	54504	ENOL_T2	3	1	-2	0.67	0.6	-0.07	0	0	0	0	0	0	0	0
3/25/2024 15:18	17804	GILB_T2	2	3	1	0.7	0.67	-0.03	-0.6	-0.6	0	0	0	0	0	0
3/25/2024 15:18	17805	GILB_T2	3	2	-1	0.23	0.25	0.02	0	0	0	0	0	0	0	0
3/25/2024 15:19	46302	ROHR_T1	9	15	6	1.19	0.97	-0.22	0	0	0	0	0	0	0	0
3/25/2024 15:19	45902	AUBU_T1	3	3	0	0.37	0.33	-0.04	-0.66	-0.73	1	1	0	600	600	0
3/25/2024 15:19	46301	ROHR_T1	71	127	56	0.23	0.27	0.04	0.21	0.19	0	0	0	0	0	0
3/25/2024 15:20	59202	THOM_T1	384	947	563	0.51	0.87	0.36	0	0	0	0	0	0	0	0
3/25/2024 15:20	59201	THOM_T1	32	95	63	0.46	0.62	0.16	0	0	0	0	0	0	0	0
3/25/2024 15:21	46301	ROHR_T1	71	127	56	0.23	0.27	0.04	0.21	0.19	0	0	0	0	0	0
3/25/2024 15:21	46302	ROHR_T1	9	15	6	1.19	0.97	-0.22	0	0	0	0	0	0	0	0
3/25/2024 15:22	54504	ENOL_T2	3	1	-2	0.67	0.6	-0.07	0	0	0	0	0	0	0	0
3/25/2024 15:22	54505	ENOL_T2	6	3	-3	0.9	0.93	0.03	-1.39	-0.72	1	0	-1	600	0	-600
3/25/2024 15:22	54501	ENOL_T2	8	7	-1	0.5	0.41	-0.09	0	0	0	0	0	0	0	0
3/25/2024 15:22	54502	ENOL_T2	67	9	-58	0.19	0.32	0.13	0	0	0	0	0	0	0	0
3/25/2024 15:22	54503	ENOL_T2	4	2	-2	0.35	0.35	0	0	0	0	0	0	0	0	0
3/25/2024 15:23	58003	WCAR_T1	72	74	2	0.43	0.45	0.02	0.76	0.78	0	0	0	0	0	0
3/25/2024 15:23	58001	WCAR_T1	21	20	-1	0.46	0.57	0.11	0	0	0	0	0	0	0	0
3/25/2024 15:24	45902	AUBU_T1	3	3	0	0.37	0.33	-0.04	-0.73	-0.81	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/25/2024 15:25	13905	SEID_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/25/2024 15:25	13902	SEID_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/25/2024 15:25	13901	SEID_T1	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
3/25/2024 15:29	45902	AUBU_T1	3	3	0	0.37	0.33	-0.04	-0.73	-0.81	1	1	0	600	600	0
3/25/2024 15:29	46506	LOHA_T1	6	12	6	0.32	0.28	-0.04	-0.47	-0.46	0	0	0	0	0	0
3/25/2024 15:29	46504	LOHA_T1	65	69	4	0.5	0.46	-0.04	0	0	0	0	0	0	0	0
3/25/2024 15:29	46501	LOHA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/25/2024 15:30	25501	MADI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/25/2024 15:30	25503	MADI_T1	43	102	59	0.13	0.21	0.08	-1.06	-1.04	0	0	0	0	0	0
3/25/2024 15:30	25502	MADI_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/25/2024 15:33	46501	LOHA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/25/2024 15:33	46506	LOHA_T1	6	12	6	0.38	0.28	-0.1	-0.47	-0.46	0	0	0	0	0	0
3/25/2024 15:33	46504	LOHA_T1	69	43	-26	0.46	0.33	-0.13	0	0	0	0	0	0	0	0
3/25/2024 15:34	46501	LOHA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/25/2024 15:34	46504	LOHA_T1	69	43	-26	0.46	0.33	-0.13	0	0	0	0	0	0	0	0
3/25/2024 15:34	46506	LOHA_T1	6	12	6	0.38	0.28	-0.1	-0.47	-0.46	0	0	0	0	0	0
3/25/2024 15:39	57403	SPAN_T1	178	180	2	0.53	0.69	0.16	0	0	0	0	0	0	0	0
3/25/2024 15:39	57401	SPAN_T1	18	40	22	0.45	0.37	-0.08	-1.01	-1	1	1	0	600	600	0
3/25/2024 15:40	45902	AUBU_T1	2	4	2	0.35	0.4	0.05	-0.81	-0.83	1	1	0	600	600	0
3/25/2024 15:40	57401	SPAN_T1	18	40	22	0.45	0.37	-0.08	-1.01	-1	1	1	0	600	600	0
3/25/2024 15:40	57403	SPAN_T1	178	180	2	0.53	0.69	0.16	0	0	0	0	0	0	0	0
3/25/2024 15:42	48902	FOSP_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/25/2024 15:42	42201	SHEN_T2	4	2	-2	0.73	1.05	0.32	-0.11	-0.14	1	1	0	600	600	0
3/25/2024 15:42	48901	FOSP_T2	1	1	0	0.7	0.7	0	-0.41	-0.41	1	1	0	600	600	0
3/25/2024 15:45	64204	KINZ_T1	22	21	-1	0.31	0.32	0.01	0	0	0	0	0	0	0	0
3/25/2024 15:45	64201	KINZ_T1	6	7	1	0.28	0.39	0.11	0	0	0	0	0	0	0	0
3/25/2024 15:45	64202	KINZ_T1	14	16	2	0.31	0.34	0.03	0.67	0.65	0	0	0	0	0	0
3/25/2024 15:45	64203	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/25/2024 15:45	45902	AUBU_T1	2	4	2	0.4	0.43	0.03	-0.81	-0.83	1	1	0	600	600	0
3/25/2024 15:52	58003	WCAR_T1	70	66	-4	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
3/25/2024 15:52	58001	WCAR_T1	16	17	1	0.69	0.61	-0.08	0.65	0.67	0	0	0	0	0	0
3/25/2024 15:55	57403	SPAN_T1	179	161	-18	0.69	0.24	-0.45	0	0	0	0	0	0	0	0
3/25/2024 15:55	57401	SPAN_T1	40	16	-24	0.37	0.5	0.13	-2	-1.97	2	2	0	1200	1200	0
3/25/2024 15:56	45902	AUBU_T1	2	4	2	0.4	0.43	0.03	-0.83	-0.89	1	1	0	600	600	0
3/25/2024 15:58	48902	FOSP_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/25/2024 15:58	48901	FOSP_T2	1	1	0	0.7	0.6	-0.1	-0.41	-0.4	1	1	0	600	600	0
3/25/2024 16:01	59301	MCAL_T1	85	94	9	0.66	0.78	0.12	-0.82	-1.01	0	0	0	0	0	0
3/25/2024 16:01	59302	MCAL_T1	4	7	3	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
3/25/2024 16:01	45902	AUBU_T1	4	4	0	0.4	0.43	0.03	-0.83	-0.89	1	1	0	600	600	0
3/25/2024 16:04	17804	GILB_T2	2	4	2	0.4	0.58	0.18	0	0	0	0	0	0	0	0
3/25/2024 16:04	17805	GILB_T2	1	1	0	0.3	0.1	-0.2	-0.13	-0.13	0	0	0	0	0	0
3/25/2024 16:08	53903	HALI_T2	6	5	-1	0.57	0.58	0.01	-0.21	-0.21	0	0	0	0	0	0
3/25/2024 16:08	53901	HALI_T2	2	1	-1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/25/2024 16:08	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
3/25/2024 16:11	45902	AUBU_T1	4	4	0	0.4	0.43	0.03	-0.89	-0.92	1	1	0	600	600	0
3/25/2024 16:16	45902	AUBU_T1	2	4	2	0.45	0.43	-0.02	-0.89	-0.92	1	1	0	600	600	0
3/25/2024 16:17	53903	HALI_T2	5	5	0	0.52	0.56	0.04	-0.21	-0.21	0	0	0	0	0	0
3/25/2024 16:17	53901	HALI_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
3/25/2024 16:17	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
3/25/2024 16:18	44201	POIN_T1	5	63	58	0.2	0.18	-0.02	-3.48	-4.02	2	2	0	1800	1800	0
3/25/2024 16:21	44201	POIN_T1	5	63	58	0.2	0.18	-0.02	-1.74	-2.01	1	1	0	900	900	0
3/25/2024 16:22	67901	WNHO_T2	17	72	55	0.34	0.25	-0.09	-0.23	-0.34	1	1	0	900	900	0
3/25/2024 16:25	10805	CHHI_T2	1	1	0	8.4	8.1	-0.3	-0.52	-0.52	0	0	0	0	0	0
3/25/2024 16:26	46001	BERW_T1	0	0	0	0	0	0	0.7	0.76	0	0	0	0	0	0
3/25/2024 16:27	45902	AUBU_T1	2	4	2	0.45	0.43	-0.02	-0.92	-0.94	1	1	0	600	600	0
3/25/2024 16:29	46001	BERW_T1	0	0	0	0	0	0	0.7	0.76	0	0	0	0	0	0
3/25/2024 16:32	45902	AUBU_T1	4	1	-3	0.43	0.8	0.37	-0.92	-0.94	1	1	0	600	600	0
3/25/2024 16:43	45902	AUBU_T1	4	1	-3	0.43	0.8	0.37	-0.94	-1	1	1	0	600	600	0
3/25/2024 16:43	45802	HEGI_T2	0	0	0	0	0	0	0.77	0.99	0	0	0	0	0	0
3/25/2024 16:44	45802	HEGI_T2	0	0	0	0	0	0	0.77	0.99	0	0	0	0	0	0
3/25/2024 16:48	45902	AUBU_T1	1	2	1	0.8	0.4	-0.4	-0.94	-1	1	1	0	600	600	0
3/25/2024 16:51	59202	THOM_T1	793	814	21	0.84	0.96	0.12	0	0	0	0	0	0	0	0
3/25/2024 16:51	59201	THOM_T1	79	83	4	0.68	0.73	0.05	0	0	0	0	0	0	0	0
3/25/2024 16:56	45902	AUBU_T1	1	2	1	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
3/25/2024 16:56	45901	AUBU_T1	0	0	0	0	0	0	2.28	2.28	0	0	0	0	0	0
3/25/2024 16:58	45902	AUBU_T1	1	2	1	0.8	0.4	-0.4	-1	-1.1	1	1	0	600	600	0
3/25/2024 17:04	45902	AUBU_T1	1	4	3	0.6	0.23	-0.37	-1	-1.1	1	1	0	600	600	0
3/25/2024 17:07	59202	THOM_T1	759	806	47	0.93	0.93	0	0	0	0	0	0	0	0	0
3/25/2024 17:07	59201	THOM_T1	79	83	4	0.7	0.7	0	0	0	0	0	0	0	0	0
3/25/2024 17:12	44301	BEAV_T2	2	4	2	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
3/25/2024 17:12	44302	BEAV_T2	149	192	43	0.36	0.41	0.05	0.28	0.29	0	0	0	0	0	0
3/25/2024 17:25	56802	BENV_T2	96	65	-31	0.18	0.17	-0.01	-0.69	-0.74	0	0	0	0	0	0
3/25/2024 17:53	45303	WBER_T2	76	3	-73	0.42	0	-0.42	0	1.11	0	0	0	0	0	0
3/25/2024 17:58	10705	CATA_T2	1	0	-1	0.6	0	-0.6	-1.04	-1.02	1	1	0	900	900	0
3/25/2024 17:58	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/25/2024 18:09	67204	TEHI_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
3/25/2024 18:10	67204	TEHI_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
3/25/2024 20:09	42901	MIDD_T2	13	0	-13	0.11	0	-0.11	0	0	0	0	0	0	0	0
3/25/2024 20:09	42903	MIDD_T2	2	2	0	1.8	1.55	-0.25	0	0	0	0	0	0	0	0
3/25/2024 20:09	42902	MIDD_T2	8	10	2	0.16	0.13	-0.03	-0.4	-0.38	0	0	0	0	0	0
3/25/2024 20:10	42902	MIDD_T2	8	10	2	0.16	0.13	-0.03	-0.4	-0.38	0	0	0	0	0	0
3/25/2024 20:10	42901	MIDD_T2	13	0	-13	0.11	0	-0.11	0	0	0	0	0	0	0	0
3/25/2024 20:10	42903	MIDD_T2	2	2	0	1.8	1.55	-0.25	0	0	0	0	0	0	0	0
3/25/2024 20:12	42901	MIDD_T2	13	0	-13	0.11	0	-0.11	0	0	0	0	0	0	0	0
3/25/2024 20:12	42902	MIDD_T2	8	10	2	0.16	0.13	-0.03	-0.4	-0.38	0	0	0	0	0	0
3/25/2024 20:12	42903	MIDD_T2	2	2	0	1.8	1.55	-0.25	0	0	0	0	0	0	0	0
3/25/2024 20:13	42902	MIDD_T2	8	10	2	0.16	0.13	-0.03	-0.4	-0.38	0	0	0	0	0	0
3/25/2024 20:13	42903	MIDD_T2	2	2	0	1.8	1.55	-0.25	0	0	0	0	0	0	0	0
3/25/2024 20:13	42901	MIDD_T2	13	0	-13	0.11	0	-0.11	0	0	0	0	0	0	0	0
3/25/2024 20:14	42902	MIDD_T2	8	10	2	0.16	0.13	-0.03	-0.4	-0.38	0	0	0	0	0	0
3/25/2024 20:14	42903	MIDD_T2	2	2	0	1.8	1.55	-0.25	0	0	0	0	0	0	0	0
3/25/2024 20:14	42901	MIDD_T2	13	0	-13	0.11	0	-0.11	0	0	0	0	0	0	0	0
3/25/2024 20:19	53501	EVIL_T2	0	1	1	0	0.2	0.2	-0.23	-0.24	0	0	0	0	0	0
3/25/2024 20:21	57401	SPAN_T1	2	2	0	0.35	0.25	-0.1	-0.37	-0.35	1	1	0	600	600	0
3/25/2024 20:21	47001	HUGH_T2	0	0	0	0	0	0	-0.83	-0.81	0	0	0	0	0	0
3/25/2024 20:23	14801	TREI_T2	1	1	0	0.2	0.1	-0.1	0.4	0.4	0	0	0	0	0	0
3/25/2024 20:28	56802	BENV_T2	68	39	-29	0.18	0.17	-0.01	-1.45	-1.47	0	0	0	0	0	0
3/25/2024 20:30	56802	BENV_T2	18	67	49	0.18	0.19	0.01	-1.45	-1.47	0	0	0	0	0	0
3/25/2024 20:31	56802	BENV_T2	18	67	49	0.18	0.19	0.01	-1.45	-1.47	0	0	0	0	0	0
3/25/2024 20:32	52402	GRPA_T2	1	4	3	1.8	1.15	-0.65	0	0	0	0	0	0	0	0
3/25/2024 20:32	52404	GRPA_T2	0	0	0	0	0	0	0.6	0.57	0	0	0	0	0	0
3/25/2024 20:33	52402	GRPA_T2	1	4	3	1.8	1.15	-0.65	0	0	0	0	0	0	0	0
3/25/2024 20:33	52404	GRPA_T2	0	0	0	0	0	0	0.6	0.57	0	0	0	0	0	0
3/25/2024 20:35	56802	BENV_T2	18	67	49	0.18	0.19	0.01	-1.45	-1.47	0	0	0	0	0	0
3/25/2024 20:36	65001	NEFF_T2	4	6	2	0.1	0.15	0.05	-1.06	-1.07	1	1	0	1200	1200	0
3/25/2024 20:53	59402	RFLD_T2	0	0	0	0	0	0	-0.88	-0.86	1	1	0	450	450	0
3/25/2024 20:54	48301	ORWI_T1	2	2	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
3/25/2024 20:56	45501	DERR_T2	0	1	1	0	0.3	0.3	0.01	-0.1	2	2	0	1800	1800	0
3/25/2024 20:58	45501	DERR_T2	0	1	1	0	0.3	0.3	0.01	-0.1	2	2	0	1800	1800	0
3/25/2024 20:59	28805	LAKE_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
3/25/2024 20:59	28801	LAKE_T1	86	77	-9	0.14	0.14	0	0	0	0	0	0	0	0	0
3/25/2024 21:09	56802	BENV_T2	63	136	73	0.19	0.27	0.08	-1.46	-1.52	0	0	0	0	0	0
3/25/2024 21:11	56802	BENV_T2	63	136	73	0.19	0.27	0.08	-1.46	-1.52	0	0	0	0	0	0
3/25/2024 21:13	52402	GRPA_T2	4	5	1	1.15	1.12	-0.03	-0.86	-0.88	0	0	0	0	0	0
3/25/2024 21:13	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/25/2024 21:14	56802	BENV_T2	63	136	73	0.19	0.27	0.08	-4.38	-4.55	0	0	0	0	0	0
3/25/2024 21:15	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/25/2024 21:15	29402	BELT_T1	1	1	0	6	7	1	0	0	0	0	0	0	0	0
3/25/2024 21:16	56802	BENV_T2	133	245	112	0.26	0.37	0.11	-2.92	-3.03	0	0	0	0	0	0
3/25/2024 21:17	13501	MCMI_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
3/25/2024 21:17	26401	INOR_T1	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
3/25/2024 21:18	56802	BENV_T2	133	245	112	0.26	0.37	0.11	-1.46	-1.52	0	0	0	0	0	0
3/25/2024 21:18	17002	RIRO_T2	2	6	4	0.1	0.14	0.04	0.35	0.31	0	0	0	0	0	0
3/25/2024 21:18	41502	FAIR_T2	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
3/25/2024 21:20	29402	BELT_T1	1	1	0	6	7	1	0	0	0	0	0	0	0	0
3/25/2024 21:20	48301	ORWI_T1	2	2	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
3/25/2024 21:20	17805	GILB_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
3/25/2024 21:20	45902	AUBU_T1	0	0	0	0	0	0	-1.01	-1.01	1	1	0	600	600	0
3/25/2024 21:20	17803	GILB_T2	9	13	4	0.19	0.25	0.06	0	0	0	0	0	0	0	0
3/25/2024 21:21	15704	TANN_T1	0	0	0	0	0	0	-1.35	-1.37	0	0	0	0	0	0
3/25/2024 21:21	17802	GILB_T1	0	0	0	0	0	0	0.02	0.12	0	0	0	0	0	0
3/25/2024 21:21	17803	GILB_T2	9	13	4	0.19	0.25	0.06	0	0	0	0	0	0	0	0
3/25/2024 21:21	17805	GILB_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
3/25/2024 21:21	15703	TANN_T2	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
3/25/2024 21:22	55001	NEWP_T1	0	0	0	0	0	0	-0.28	-0.25	0	0	0	0	0	0
3/25/2024 21:22	55002	NEWP_T1	4	4	0	0.23	0.6	0.37	0	0	0	0	0	0	0	0
3/25/2024 21:23	11507	FREE_T2	0	2	2	0	0	0	1.64	1.72	0	0	0	0	0	0
3/25/2024 21:23	65004	NEFF_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
3/25/2024 21:23	48901	FOSP_T2	0	0	0	0	0	0	-0.41	-0.42	1	1	0	600	600	0
3/25/2024 21:23	67103	SPRI_T1	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
3/25/2024 21:23	65003	NEFF_T2	1	4	3	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/25/2024 21:23	28805	LAKE_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
3/25/2024 21:23	65001	NEFF_T2	160	220	60	0.17	0.25	0.08	0	0	0	0	0	0	0	0
3/25/2024 21:23	67201	TEHI_T1	0	44	44	0	0.19	0.19	0	0	0	0	0	0	0	0
3/25/2024 21:23	67203	TEHI_T1	0	0	0	0	0	0	2.24	2.18	1	1	0	600	600	0
3/25/2024 21:24	61303	EARL_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
3/25/2024 21:24	55001	NEWP_T1	0	0	0	0	0	0	-0.25	-0.31	0	0	0	0	0	0
3/25/2024 21:24	29402	BELT_T1	1	1	0	6	7	1	0	0	0	0	0	0	0	0
3/25/2024 21:24	55002	NEWP_T1	4	4	0	0.23	0.6	0.37	0	0	0	0	0	0	0	0
3/25/2024 21:24	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	1	0	900	900
3/25/2024 21:25	64204	KINZ_T1	1	10	9	0.9	0.25	-0.65	0	0	0	0	0	0	0	0
3/25/2024 21:25	54501	ENOL_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
3/25/2024 21:25	20403	ASHF_T2	0	0	0	0	0	0	-0.76	-0.77	0	0	0	0	0	0
3/25/2024 21:25	16302	ALPA_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
3/25/2024 21:25	64202	KINZ_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
3/25/2024 21:25	29402	BELT_T1	1	1	0	6	7	1	0	0	0	0	0	0	0	0
3/25/2024 21:25	64201	KINZ_T1	6	7	1	0.22	0.41	0.19	0	0	0	0	0	0	0	0
3/25/2024 21:25	12505	MITR_T2	0	0	0	0	0	0	1.01	1.09	0	0	0	0	0	0
3/25/2024 21:25	29401	BELT_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
3/25/2024 21:25	12502	MITR_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
3/25/2024 21:25	10805	CHHI_T2	1	1	0	7.5	7.4	-0.1	-1.19	-1.17	1	1	0	600	600	0
3/25/2024 21:25	64203	KINZ_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
3/25/2024 21:25	13503	MCMI_T2	27	87	60	0.26	0.36	0.1	-0.88	-0.85	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/25/2024 21:25	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/25/2024 21:25	54502	ENOL_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/25/2024 21:25	61303	EARL_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
3/25/2024 21:26	57103	SPHI_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
3/25/2024 21:26	46302	ROHR_T1	51	48	-3	0.29	0.28	-0.01	0.16	0.17	0	0	0	0	0	0
3/25/2024 21:26	57304	MOAL_T2	0	1	1	0	0.1	0.1	-0.5	-0.52	0	0	0	0	0	0
3/25/2024 21:26	42802	SELI_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
3/25/2024 21:26	16402	MOPO_T1	0	0	0	0	0	0	-0.09	-0.06	0	0	0	0	0	0
3/25/2024 21:26	57106	SPHI_T2	3	3	0	1.3	1.47	0.17	0	0	0	0	0	0	0	0
3/25/2024 21:26	44601	SALE_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
3/25/2024 21:26	57303	MOAL_T2	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
3/25/2024 21:26	57104	SPHI_T2	1	0	-1	1.8	0	-1.8	0	0	0	0	0	0	0	0
3/25/2024 21:26	46301	ROHR_T1	178	204	26	0.31	0.34	0.03	0	0	0	0	0	0	0	0
3/25/2024 21:26	57101	SPHI_T2	6	6	0	0.37	0.67	0.3	0	0	0	0	0	0	0	0
3/25/2024 21:26	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/25/2024 21:26	54001	SDLE_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 21:26	45902	AUBU_T1	0	0	0	0	0	0	-2.03	-2.1	2	2	0	1200	1200	0
3/25/2024 21:26	41504	FAIR_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
3/25/2024 21:26	60201	ATGL_T2	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
3/25/2024 21:26	27502	WEIS_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
3/25/2024 21:26	48901	FOSP_T2	0	0	0	0	0	0	-0.41	-0.42	1	1	0	600	600	0
3/25/2024 21:27	46301	ROHR_T1	178	204	26	0.31	0.34	0.03	0.18	0.17	0	0	0	0	0	0
3/25/2024 21:27	25503	MADI_T1	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
3/25/2024 21:27	45501	DERR_T2	0	0	0	0	0	0	-0.3	-0.1	2	2	0	1800	1800	0
3/25/2024 21:27	16302	ALPA_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
3/25/2024 21:27	56802	BENV_T2	133	245	112	0.26	0.37	0.11	-1.52	-1.53	0	0	0	0	0	0
3/25/2024 21:27	17803	GILB_T2	9	13	4	0.19	0.25	0.06	0	0	0	0	0	0	0	0
3/25/2024 21:27	55002	NEWP_T1	4	4	0	0.23	0.6	0.37	-0.3	-0.28	0	0	0	0	0	0
3/25/2024 21:27	53501	EVIL_T2	1	1	0	0.5	0.6	0.1	-0.21	-0.27	0	0	0	0	0	0
3/25/2024 21:27	26002	WDAM_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/25/2024 21:27	16301	ALPA_T1	2	27	25	0.35	0.16	-0.19	-0.98	-1.08	0	0	0	0	0	0
3/25/2024 21:27	13901	SEID_T1	0	0	0	0	0	0	-0.8	-0.83	1	1	0	1200	1200	0
3/25/2024 21:27	42601	TUSC_T1	0	0	0	0	0	0	-0.55	-0.59	2	2	0	1800	1800	0
3/25/2024 21:27	24902	WHHA_T1	6	4	-2	0.75	0.8	0.05	0	0	0	0	0	0	0	0
3/25/2024 21:27	67002	STHI_T2	1	15	14	0.1	0.14	0.04	0.49	0.51	0	0	0	0	0	0
3/25/2024 21:27	42201	SHEN_T2	0	0	0	0	0	0	-0.19	-0.18	1	1	0	600	600	0
3/25/2024 21:27	46302	ROHR_T1	51	48	-3	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
3/25/2024 21:27	15001	BLMO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 21:27	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 21:27	17805	GILB_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
3/25/2024 21:27	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/25/2024 21:27	29402	BELT_T1	1	1	0	6	7	1	0	0	0	0	0	0	0	0
3/25/2024 21:27	26001	WDAM_T1	0	0	0	0	0	0	-0.74	-0.8	0	0	0	0	0	0
3/25/2024 21:27	67001	STHI_T2	2	206	204	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
3/25/2024 21:28	45303	WBER_T2	8	8	0	0.24	0.49	0.25	0.23	0.24	0	0	0	0	0	0
3/25/2024 21:28	14404	SSLA_T1	2	2	0	3.25	3.3	0.05	0	0	0	0	0	0	0	0
3/25/2024 21:28	24902	WHHA_T1	6	4	-2	0.75	0.8	0.05	0	0	0	0	0	0	0	0
3/25/2024 21:28	67002	STHI_T2	1	15	14	0.1	0.14	0.04	0.98	1.02	0	0	0	0	0	0
3/25/2024 21:28	67001	STHI_T2	2	206	204	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
3/25/2024 21:28	17802	GILB_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
3/25/2024 21:28	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
3/25/2024 21:28	45302	WBER_T2	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
3/25/2024 21:28	47401	PENS_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
3/25/2024 21:28	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 21:28	57401	SPAN_T1	2	2	0	0.35	1.15	0.8	-0.39	-0.63	1	1	0	600	600	0
3/25/2024 21:28	16301	ALPA_T1	2	27	25	0.35	0.16	-0.19	-0.49	-0.54	0	0	0	0	0	0
3/25/2024 21:28	10702	CATA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/25/2024 21:28	10705	CATA_T2	0	0	0	0	0	0	-1.06	-1.05	1	1	0	900	900	0
3/25/2024 21:28	67103	SPRI_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
3/25/2024 21:28	58001	WCAR_T1	6	10	4	0.95	0.74	-0.21	0	0	0	0	0	0	0	0
3/25/2024 21:28	26002	WDAM_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/25/2024 21:28	14403	SSLA_T1	0	0	0	0	0	0	0.67	0.64	0	0	0	0	0	0
3/25/2024 21:28	26001	WDAM_T1	0	0	0	0	0	0	-0.37	-0.4	0	0	0	0	0	0
3/25/2024 21:28	60803	BUCK_T1	0	0	0	0	0	0	-0.57	-0.53	1	1	0	600	600	0
3/25/2024 21:28	46001	BERW_T1	0	0	0	0	0	0	0.6	0.54	0	0	0	0	0	0
3/25/2024 21:28	42601	TUSC_T1	0	0	0	0	0	0	-0.55	-0.59	2	2	0	1800	1800	0
3/25/2024 21:28	45901	AUBU_T1	0	0	0	0	0	0	1.81	1.81	0	0	0	0	0	0
3/25/2024 21:28	45301	WBER_T2	3	12	9	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
3/25/2024 21:28	58003	WCAR_T1	46	57	11	0.24	0.28	0.04	0.54	0.55	0	0	0	0	0	0
3/25/2024 21:28	15001	BLMO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 21:28	60101	COCA_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
3/25/2024 21:29	40101	HUNT_T2	1	0	-1	0.3	0	-0.3	-0.48	-0.51	0	0	0	0	0	0
3/25/2024 21:29	67204	TEHI_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
3/25/2024 21:29	16302	ALPA_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
3/25/2024 21:29	58402	MORO_T1	0	0	0	0	0	0	-0.39	-0.36	2	2	0	1500	1500	0
3/25/2024 21:29	17805	GILB_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
3/25/2024 21:29	65003	NEFF_T2	1	4	3	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/25/2024 21:29	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/25/2024 21:29	56802	BENV_T2	133	245	112	0.26	0.37	0.11	-1.52	-1.53	0	0	0	0	0	0
3/25/2024 21:29	29402	BELT_T1	1	1	0	6	7	1	0	0	0	0	0	0	0	0
3/25/2024 21:29	42002	MNVL_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
3/25/2024 21:29	29401	BELT_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
3/25/2024 21:29	17803	GILB_T2	9	13	4	0.19	0.25	0.06	0	0	0	0	0	0	0	0
3/25/2024 21:29	10805	CHHI_T2	1	1	0	7.5	7.4	-0.1	-1.19	-1.17	1	1	0	600	600	0
3/25/2024 21:29	66503	SMAN_T2	25	2	-23	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
3/25/2024 21:29	65001	NEFF_T2	160	220	60	0.17	0.25	0.08	-1.05	-1.09	1	1	0	1200	1200	0
3/25/2024 21:29	64802	MONE_T2	21	20	-1	0.11	0.12	0.01	-0.08	-0.03	0	0	0	0	0	0
3/25/2024 21:29	55002	NEWP_T1	4	4	0	0.23	0.6	0.37	-0.3	-0.28	0	0	0	0	0	0
3/25/2024 21:29	64801	MONE_T2	15	52	37	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
3/25/2024 21:29	48901	FOSP_T2	0	0	0	0	0	0	-0.41	-0.42	1	1	0	600	600	0
3/25/2024 21:29	67001	STHI_T2	2	206	204	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
3/25/2024 21:29	42001	MNVL_T2	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
3/25/2024 21:29	66505	SMAN_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/25/2024 21:29	67002	STHI_T2	1	15	14	0.1	0.14	0.04	0.49	0.51	0	0	0	0	0	0
3/25/2024 21:29	13501	MCMI_T1	0	0	0	0	0	0	0.17	0.11	0	0	0	0	0	0
3/25/2024 21:29	66504	SMAN_T2	0	0	0	0	0	0	-1.12	-1.11	0	0	0	0	0	0
3/25/2024 21:30	40601	PIGR_T1	208	108	-100	0.32	0.19	-0.13	0	0	0	0	0	0	0	0
3/25/2024 21:30	57403	SPAN_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
3/25/2024 21:30	41802	GOCI_T2	16	18	2	0.34	0.36	0.02	0	0	0	0	0	0	0	0
3/25/2024 21:30	40603	PIGR_T1	0	0	0	0	0	0	0.26	0.3	0	0	0	0	0	0
3/25/2024 21:30	67103	SPRI_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
3/25/2024 21:30	40602	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/25/2024 21:30	16302	ALPA_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
3/25/2024 21:30	53902	HALI_T2	1	1	0	5.4	5.7	0.3	0	0	0	0	0	0	0	0
3/25/2024 21:30	53903	HALI_T2	2	2	0	1.35	1.4	0.05	-0.22	-0.22	0	0	0	0	0	0
3/25/2024 21:30	63602	LETO_T1	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
3/25/2024 21:30	41801	GOCI_T2	42	68	26	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/25/2024 21:30	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/25/2024 21:30	10801	CHHI_T1	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
3/25/2024 21:30	67204	TEHI_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
3/25/2024 21:30	67605	WARW_T1	12	35	23	0.35	0.53	0.18	-2.16	-2.27	0	0	0	0	0	0
3/25/2024 21:30	57401	SPAN_T1	2	2	0	0.55	1.15	0.6	0	0	0	0	0	0	0	0
3/25/2024 21:30	29402	BELT_T1	1	1	0	6.3	7.2	0.9	0	0	0	0	0	0	0	0
3/25/2024 21:30	45902	AUBU_T1	0	0	0	0	0	0	-1.01	-1.05	1	1	0	600	600	0
3/25/2024 21:30	53901	HALI_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/25/2024 21:30	67402	WAKE_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
3/25/2024 21:30	56802	BENV_T2	74	266	192	0.22	0.39	0.17	-1.52	-1.53	0	0	0	0	0	0
3/25/2024 21:30	55002	NEWP_T1	4	4	0	0.3	0.6	0.3	-0.6	-0.56	0	0	0	0	0	0
3/25/2024 21:30	60803	BUCK_T1	0	0	0	0	0	0	-0.57	-0.53	1	1	0	600	600	0
3/25/2024 21:30	29401	BELT_T1	0	0	0	0	0	0	0	0	0	2	2	0	1800	1800
3/25/2024 21:30	60101	COCA_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
3/25/2024 21:30	42001	MNVL_T2	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
3/25/2024 21:30	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
3/25/2024 21:30	42002	MNVL_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
3/25/2024 21:30	44601	SALE_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
3/25/2024 21:31	44201	POIN_T1	1	17	16	0.1	0.15	0.05	-2.05	-2.07	1	1	0	900	900	0
3/25/2024 21:31	54001	SDLE_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
3/25/2024 21:31	54502	ENOL_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/25/2024 21:31	47403	PENS_T1	1	1	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
3/25/2024 21:31	67002	STHI_T2	5	46	41	0.12	0.14	0.02	0.49	0.51	0	0	0	0	0	0
3/25/2024 21:31	67001	STHI_T2	126	271	145	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/25/2024 21:31	43201	MVIL_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
3/25/2024 21:31	16301	ALPA_T1	11	56	45	0.16	0.16	0	-0.49	-0.54	0	0	0	0	0	0
3/25/2024 21:31	51306	WIND_T2	0	0	0	0	0	0	0.04	0.09	0	0	0	0	0	0
3/25/2024 21:31	46004	BERW_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
3/25/2024 21:31	59301	MCAL_T1	2	2	0	0.35	0.4	0.05	-1.2	-1.22	0	0	0	0	0	0
3/25/2024 21:31	10801	CHHI_T1	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
3/25/2024 21:31	52403	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/25/2024 21:31	57401	SPAN_T1	2	2	0	0.55	1.15	0.6	-0.39	-0.63	1	1	0	600	600	0
3/25/2024 21:31	43202	MVIL_T2	72	74	2	0.76	0.51	-0.25	0	0	0	0	0	0	0	0
3/25/2024 21:31	47401	PENS_T1	0	0	0	0	0	0	1.27	1.27	0	0	0	0	0	0
3/25/2024 21:31	54505	ENOL_T2	1	1	0	0.8	1	0.2	-1.35	-1.37	1	1	0	600	600	0
3/25/2024 21:31	59402	RFLD_T2	0	0	0	0	0	0	-0.87	-0.89	1	1	0	450	450	0
3/25/2024 21:31	60801	BUCK_T1	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
3/25/2024 21:31	60201	ATGL_T2	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
3/25/2024 21:31	52402	GRPA_T2	5	5	0	1.12	1.36	0.24	-0.88	-0.88	0	0	0	0	0	0
3/25/2024 21:31	40601	PIGR_T1	208	108	-100	0.32	0.19	-0.13	0	0	0	0	0	0	0	0
3/25/2024 21:32	47403	PENS_T1	1	1	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
3/25/2024 21:32	63401	HONY_T1	0	0	0	0	0	0	-0.02	0.01	1	1	0	600	600	0
3/25/2024 21:32	56802	BENV_T2	74	266	192	0.22	0.39	0.17	-1.52	-1.53	0	0	0	0	0	0
3/25/2024 21:32	59101	WALK_T2	0	0	0	0	0	0	1.22	1.24	0	0	0	0	0	0
3/25/2024 21:32	57401	SPAN_T1	2	2	0	0.55	1.15	0.6	-0.39	-0.63	1	1	0	600	600	0
3/25/2024 21:32	10705	CATA_T2	0	0	0	0	0	0	-1.06	-1.05	1	1	0	900	900	0
3/25/2024 21:32	50501	MECH_T1	4	4	0	1.75	1.95	0.2	0	0	0	0	0	0	0	0
3/25/2024 21:32	54505	ENOL_T2	1	1	0	0.8	1	0.2	-2.71	-2.74	2	2	0	1200	1200	0
3/25/2024 21:32	50102	HARR_T3	4	13	9	0.15	0.32	0.17	0	0	0	0	0	0	0	0
3/25/2024 21:32	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
3/25/2024 21:32	42802	SELI_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
3/25/2024 21:32	16301	ALPA_T1	11	56	45	0.16	0.16	0	-0.49	-0.54	0	0	0	0	0	0
3/25/2024 21:32	50201	HARR_T3	2	2	0	4.35	4	-0.35	0	0	0	0	0	0	0	0
3/25/2024 21:32	64801	MONE_T2	13	83	70	0.29	0.31	0.02	-0.4	-0.41	0	0	0	0	0	0
3/25/2024 21:32	54502	ENOL_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/25/2024 21:32	59301	MCAL_T1	2	2	0	0.35	0.4	0.05	-1.2	-1.22	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/25/2024 21:32	64202	KINZ_T1	0	6	6	0	0.15	0.15	0.55	0.49	0	0	0	0	0	0
3/25/2024 21:32	64204	KINZ_T1	1	15	14	1.2	0.25	-0.95	0	0	0	0	0	0	0	0
3/25/2024 21:32	50502	MECH_T1	1	1	0	2.4	2.7	0.3	0	0	0	0	0	0	0	0
3/25/2024 21:32	40602	PIGR_T1	1	0	-1	0.1	0	-0.1	0.12	0.08	2	2	0	1200	1200	0
3/25/2024 21:32	50103	HARR_T3	2	2	0	0.8	1.05	0.25	-1.08	-1	1	1	0	1200	1200	0
3/25/2024 21:32	63404	HONY_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 21:32	50202	HARR_T3	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/25/2024 21:32	45902	AUBU_T1	0	0	0	0	0	0	-1.01	-1.05	1	1	0	600	600	0
3/25/2024 21:32	67401	WAKE_T2	0	0	0	0	0	0	-0.96	-0.95	0	0	0	0	0	0
3/25/2024 21:32	64203	KINZ_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 21:32	64201	KINZ_T1	4	7	3	0.28	0.44	0.16	0	0	0	0	0	0	0	0
3/25/2024 21:32	47401	PENS_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
3/25/2024 21:32	50504	MECH_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 21:32	64802	MONE_T2	6	32	26	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
3/25/2024 21:32	50105	HARR_T3	7	7	0	6.3	5.99	-0.31	0	0	0	0	0	0	0	0
3/25/2024 21:32	50506	MECH_T1	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
3/25/2024 21:32	43202	MVIL_T2	72	74	2	0.76	0.51	-0.25	-0.71	-0.71	0	0	0	0	0	0
3/25/2024 21:32	42701	AUGU_T1	0	0	0	0	0	0	0	1	1	1	0	600	600	0
3/25/2024 21:33	64801	MONE_T2	13	83	70	0.29	0.31	0.02	0	0	0	0	0	0	0	0
3/25/2024 21:33	46302	ROHR_T1	47	13	-34	0.28	0.77	0.49	0	0	0	0	0	0	0	0
3/25/2024 21:33	54503	ENOL_T2	0	0	0	0	0	0	-2.53	-2.69	2	2	0	1200	1200	0
3/25/2024 21:33	54502	ENOL_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/25/2024 21:33	45802	HEGI_T2	0	0	0	0	0	0	0.47	0.79	0	0	0	0	0	0
3/25/2024 21:33	57401	SPAN_T1	2	2	0	0.55	1.15	0.6	-0.39	-0.63	1	1	0	600	600	0
3/25/2024 21:33	51603	DUKE_T1	0	1	1	0	0.2	0.2	-0.5	-0.49	0	0	0	0	0	0
3/25/2024 21:33	54505	ENOL_T2	1	1	0	0.8	1	0.2	-1.35	-1.37	1	1	0	600	600	0
3/25/2024 21:33	16302	ALPA_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
3/25/2024 21:33	50501	MECH_T1	4	4	0	1.75	1.95	0.2	0	0	0	0	0	0	0	0
3/25/2024 21:33	52501	PROG_T1	0	0	0	0	0	0	0.57	0.52	2	2	0	600	600	0
3/25/2024 21:33	44301	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 21:33	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
3/25/2024 21:33	42201	SHEN_T2	0	0	0	0	0	0	-0.19	-0.18	1	1	0	600	600	0
3/25/2024 21:33	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
3/25/2024 21:33	50506	MECH_T1	0	0	0	0	0	0	-0.29	-0.34	0	0	0	0	0	0
3/25/2024 21:33	45402	WBLO_T2	40	37	-3	0.26	0.26	0	-0.87	-0.89	0	0	0	0	0	0
3/25/2024 21:33	60201	ATGL_T2	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
3/25/2024 21:33	44302	BEAV_T2	1	29	28	0.1	0.2	0.1	0.22	0.2	0	0	0	0	0	0
3/25/2024 21:33	64802	MONE_T2	6	32	26	0.15	0.11	-0.04	-0.08	-0.03	0	0	0	0	0	0
3/25/2024 21:33	50504	MECH_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 21:33	64305	LINC_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/25/2024 21:33	53501	EVIL_T2	1	2	1	0.6	0.5	-0.1	-0.21	-0.27	0	0	0	0	0	0
3/25/2024 21:33	46004	BERW_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
3/25/2024 21:33	64301	LINC_T1	0	0	0	0	0	0	0.1	0.18	0	0	0	0	0	0
3/25/2024 21:33	46301	ROHR_T1	177	199	22	0.35	0.31	-0.04	0.18	0.17	0	0	0	0	0	0
3/25/2024 21:33	42802	SELI_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
3/25/2024 21:33	50502	MECH_T1	1	1	0	2.4	2.7	0.3	0	0	0	0	0	0	0	0
3/25/2024 21:33	58402	MORO_T1	0	0	0	0	0	0	-0.39	-0.36	2	2	0	1500	1500	0
3/25/2024 21:33	41802	GOCI_T2	16	18	2	0.34	0.36	0.02	0	0	0	0	0	0	0	0
3/25/2024 21:33	41801	GOCI_T2	42	68	26	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/25/2024 21:33	55002	NEWP_T1	4	4	0	0.3	0.6	0.3	-0.6	-0.56	0	0	0	0	0	0
3/25/2024 21:34	43105	SMIL_T2	5	12	7	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
3/25/2024 21:34	43102	SMIL_T2	7	8	1	0.84	0.78	-0.06	0	0	0	0	0	0	0	0
3/25/2024 21:34	40601	PIGR_T1	208	108	-100	0.32	0.19	-0.13	0	0	0	0	0	0	0	0
3/25/2024 21:34	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/25/2024 21:34	67002	STHI_T2	5	46	41	0.12	0.14	0.02	0.98	1.02	0	0	0	0	0	0
3/25/2024 21:34	53903	HALI_T2	2	2	0	1.35	1.4	0.05	-0.22	-0.22	0	0	0	0	0	0
3/25/2024 21:34	57401	SPAN_T1	2	2	0	0.55	1.15	0.6	0	0	0	0	0	0	0	0
3/25/2024 21:34	57403	SPAN_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
3/25/2024 21:34	56802	BENV_T2	74	266	192	0.22	0.39	0.17	-1.52	-1.53	0	0	0	0	0	0
3/25/2024 21:34	53902	HALI_T2	1	1	0	5.4	5.7	0.3	0	0	0	0	0	0	0	0
3/25/2024 21:34	45302	WBER_T2	4	20	16	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
3/25/2024 21:34	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
3/25/2024 21:34	54502	ENOL_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/25/2024 21:34	52002	LING_T2	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
3/25/2024 21:34	42701	AUGU_T1	0	0	0	0	0	0	0	1	1	0	600	600	0
3/25/2024 21:34	42901	MIDD_T2	3	57	54	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/25/2024 21:34	43101	SMIL_T2	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
3/25/2024 21:34	53901	HALI_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/25/2024 21:34	14403	SSLA_T1	0	0	0	0	0	0	0.67	0.64	0	0	0	0	0	0
3/25/2024 21:34	42902	MIDD_T2	6	21	15	0.13	0.25	0.12	-0.47	-0.52	0	0	0	0	0	0
3/25/2024 21:34	14404	SSLA_T1	2	2	0	3.3	3.25	-0.05	0	0	0	0	0	0	0	0
3/25/2024 21:34	47401	PENS_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
3/25/2024 21:34	52501	PROG_T1	0	0	0	0	0	0	0.28	0.26	1	1	0	300	300	0
3/25/2024 21:34	43103	SMIL_T2	17	19	2	0.61	0.62	0.01	-1.01	-1.01	0	0	0	0	0	0
3/25/2024 21:34	52004	LING_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
3/25/2024 21:34	52006	LING_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
3/25/2024 21:34	14402	SSLA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/25/2024 21:34	45303	WBER_T2	8	11	3	0.45	0.62	0.17	0.46	0.48	0	0	0	0	0	0
3/25/2024 21:34	46001	BERW_T1	0	0	0	0	0	0	1.2	1.09	0	0	0	0	0	0
3/25/2024 21:34	54501	ENOL_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
3/25/2024 21:34	45301	WBER_T2	12	33	21	0.12	0.17	0.05	0	0	0	0	0	0	0	0
3/25/2024 21:34	60902	DONG_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
3/25/2024 21:34	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/25/2024 21:34	61303	EARL_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
3/25/2024 21:34	67605	WARW_T1	12	35	23	0.35	0.53	0.18	-1.08	-1.13	0	0	0	0	0	0
3/25/2024 21:34	40602	PIGR_T1	1	0	-1	0.1	0	-0.1	0.06	0.04	1	1	0	600	600	0
3/25/2024 21:34	47403	PENS_T1	1	1	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
3/25/2024 21:34	67001	STHI_T2	126	271	145	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/25/2024 21:34	42903	MIDD_T2	2	2	0	1.45	2	0.55	0	0	0	0	0	0	0	0
3/25/2024 21:34	43202	MVIL_T2	72	74	2	0.76	0.51	-0.25	-0.71	-0.71	0	0	0	0	0	0
3/25/2024 21:34	42802	SELI_T1	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
3/25/2024 21:35	40901	JESH_T1	28	54	26	0.14	0.16	0.02	0	0	0	0	0	0	0	0
3/25/2024 21:35	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/25/2024 21:35	57303	MOAL_T2	1	1	0	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
3/25/2024 21:35	66503	SMAN_T2	1	6	5	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/25/2024 21:35	46506	LOHA_T1	1	7	6	0.8	0.31	-0.49	-0.46	-0.45	0	0	0	0	0	0
3/25/2024 21:35	57401	SPAN_T1	2	2	0	0.55	1.15	0.6	-0.39	-0.63	1	1	0	600	600	0
3/25/2024 21:35	46503	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 21:35	42802	SELI_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
3/25/2024 21:35	66505	SMAN_T2	1	3	2	0.2	0.13	-0.07	-0.35	-0.38	1	1	0	900	900	0
3/25/2024 21:35	46504	LOHA_T1	2	31	29	0.65	0.22	-0.43	0	0	0	0	0	0	0	0
3/25/2024 21:35	40201	BEGA_T2	11	16	5	0.24	0.18	-0.06	0	0	0	0	0	0	0	0
3/25/2024 21:35	40903	JESH_T1	9	32	23	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/25/2024 21:35	20403	ASHF_T2	0	0	0	0	0	0	-0.76	-0.77	0	0	0	0	0	0
3/25/2024 21:35	46203	DANV_T2	296	255	-41	0.79	0.86	0.07	-2.27	-2.2	0	0	0	0	0	0
3/25/2024 21:35	43202	MVIL_T2	72	74	2	0.76	0.51	-0.25	-0.71	-0.71	0	0	0	0	0	0
3/25/2024 21:35	45602	WOOL_T1	3	3	0	0.77	0.83	0.06	0.38	0.37	0	0	0	0	0	0
3/25/2024 21:35	54502	ENOL_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/25/2024 21:35	54503	ENOL_T2	0	0	0	0	0	0	-1.27	-1.35	1	1	0	600	600	0
3/25/2024 21:35	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/25/2024 21:35	53501	EVIL_T2	1	2	1	0.6	0.5	-0.1	-0.21	-0.27	0	0	0	0	0	0
3/25/2024 21:35	40902	JESH_T1	7	40	33	0.13	0.14	0.01	-0.83	-0.84	0	0	0	0	0	0
3/25/2024 21:35	57304	MOAL_T2	0	1	1	0	0.1	0.1	-0.5	-0.52	0	0	0	0	0	0
3/25/2024 21:35	57403	SPAN_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
3/25/2024 21:35	52501	PROG_T1	0	0	0	0	0	0	0.28	0.26	1	1	0	300	300	0
3/25/2024 21:35	59202	THOM_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 21:36	40201	BEGA_T2	11	16	5	0.24	0.18	-0.06	0	0	0	0	0	0	0	0
3/25/2024 21:36	45402	WBLO_T2	40	37	-3	0.26	0.26	0	-0.87	-0.89	0	0	0	0	0	0
3/25/2024 21:36	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
3/25/2024 21:36	50201	HARR_T3	2	2	0	4.35	4	-0.35	0	0	0	0	0	0	0	0
3/25/2024 21:36	50102	HARR_T3	4	13	9	0.15	0.32	0.17	0	0	0	0	0	0	0	0
3/25/2024 21:36	46506	LOHA_T1	1	7	6	0.8	0.31	-0.49	-0.46	-0.45	0	0	0	0	0	0
3/25/2024 21:36	53902	HALI_T2	1	1	0	5.4	5.7	0.3	0	0	0	0	0	0	0	0
3/25/2024 21:36	46504	LOHA_T1	2	31	29	0.65	0.22	-0.43	0	0	0	0	0	0	0	0
3/25/2024 21:36	46503	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 21:36	15001	BLMO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/25/2024 21:36	53901	HALI_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/25/2024 21:36	50105	HARR_T3	7	7	0	6.3	5.99	-0.31	0	0	0	0	0	0	0	0
3/25/2024 21:36	54502	ENOL_T2	1	1	0	0.2	0.7	0.5	-1.14	-1.16	1	1	0	600	600	0
3/25/2024 21:36	54505	ENOL_T2	1	1	0	0.8	1	0.2	-1.35	-1.37	1	1	0	600	600	0
3/25/2024 21:36	53903	HALI_T2	2	2	0	1.35	1.4	0.05	-0.22	-0.22	0	0	0	0	0	0
3/25/2024 21:36	50103	HARR_T3	2	2	0	0.8	1.05	0.25	-1.08	-1	1	1	0	1200	1200	0
3/25/2024 21:36	46001	BERW_T1	0	0	0	0	0	0	0.6	0.54	0	0	0	0	0	0
3/25/2024 21:36	46801	HEPB_T2	2	2	0	0.45	0.45	0	0.53	0.52	0	0	0	0	0	0
3/25/2024 21:36	54001	SDLE_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
3/25/2024 21:36	52403	GRPA_T2	1	0	-1	0.1	0	-0.1	-0.07	-0.05	0	0	0	0	0	0
3/25/2024 21:36	50202	HARR_T3	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/25/2024 21:36	52402	GRPA_T2	5	5	0	1.12	1.36	0.24	0	0	0	0	0	0	0	0
3/25/2024 21:37	54502	ENOL_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/25/2024 21:37	45402	WBLO_T2	40	37	-3	0.26	0.26	0	-0.87	-0.89	0	0	0	0	0	0
3/25/2024 21:37	66503	SMAN_T2	1	6	5	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/25/2024 21:37	46203	DANV_T2	296	255	-41	0.79	0.86	0.07	-1.14	-1.1	0	0	0	0	0	0
3/25/2024 21:37	46702	RENO_T1	0	2	2	0	0.15	0.15	-0.17	-0.16	0	0	0	0	0	0
3/25/2024 21:37	54504	ENOL_T2	0	0	0	0	0	0	-1	-1	1	1	0	600	600	0
3/25/2024 21:37	67401	WAKE_T2	0	0	0	0	0	0	-0.96	-0.95	0	0	0	0	0	0
3/25/2024 21:37	42201	SHEN_T2	0	0	0	0	0	0	-0.19	-0.18	1	1	0	600	600	0
3/25/2024 21:37	42802	SELI_T1	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
3/25/2024 21:37	40902	JESH_T1	7	40	33	0.13	0.14	0.01	-0.83	-0.84	0	0	0	0	0	0
3/25/2024 21:37	58001	WCAR_T1	9	8	-1	0.72	0.89	0.17	0	0	0	0	0	0	0	0
3/25/2024 21:37	40901	JESH_T1	28	54	26	0.14	0.16	0.02	0	0	0	0	0	0	0	0
3/25/2024 21:37	46701	RENO_T1	1	16	15	8	0.63	-7.37	0	0	0	0	0	0	0	0
3/25/2024 21:37	45802	HEGI_T2	0	0	0	0	0	0	0.47	0.79	0	0	0	0	0	0
3/25/2024 21:37	67901	WNHO_T2	79	184	105	0.25	0.51	0.26	-0.61	-0.57	0	0	0	0	0	0
3/25/2024 21:37	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/25/2024 21:37	66505	SMAN_T2	1	3	2	0.2	0.13	-0.07	-0.35	-0.38	1	1	0	900	900	0
3/25/2024 21:37	59101	WALK_T2	0	0	0	0	0	0	1.22	1.24	0	0	0	0	0	0
3/25/2024 21:37	58003	WCAR_T1	46	57	11	0.25	0.32	0.07	0.54	0.55	0	0	0	0	0	0
3/25/2024 21:37	40903	JESH_T1	9	32	23	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/25/2024 21:37	45702	LIND_T2	1	1	0	0.3	0.2	-0.1	-0.56	-0.57	0	0	0	0	0	0
3/25/2024 21:37	55105	WERT_T1	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
3/25/2024 21:38	41801	GOCI_T2	42	68	26	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/25/2024 21:38	58003	WCAR_T1	46	57	11	0.25	0.32	0.07	0	0	0	0	0	0	0	0
3/25/2024 21:38	44201	POIN_T1	1	17	16	0.1	0.15	0.05	-2.05	-2.07	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/25/2024 21:38	41802	GOCI_T2	16	18	2	0.34	0.36	0.02	0	0	0	0	0	0	0	0
3/25/2024 21:38	57403	SPAN_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
3/25/2024 21:38	59402	RFLD_T2	0	0	0	0	0	0	-0.89	-0.89	1	1	0	450	450	0
3/25/2024 21:38	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
3/25/2024 21:38	47403	PENS_T1	1	1	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
3/25/2024 21:38	42802	SELI_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
3/25/2024 21:38	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.26	1	1	0	600	600	0
3/25/2024 21:38	41902	REED_T1	0	0	0	0	0	0	0.98	0.97	0	0	0	0	0	0
3/25/2024 21:38	58001	WCAR_T1	9	8	-1	0.72	0.89	0.17	0.53	0.51	0	0	0	0	0	0
3/25/2024 21:38	41901	REED_T1	5	7	2	0.16	0.23	0.07	0	0	0	0	0	0	0	0
3/25/2024 21:38	47401	PENS_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
3/25/2024 21:38	57401	SPAN_T1	2	2	0	0.55	1.15	0.6	0	0	0	0	0	0	0	0
3/25/2024 21:39	43102	SMIL_T2	7	8	1	0.84	0.78	-0.06	0	0	0	0	0	0	0	0
3/25/2024 21:39	44301	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 21:39	41901	REED_T1	5	7	2	0.16	0.23	0.07	0	0	0	0	0	0	0	0
3/25/2024 21:39	52402	GRPA_T2	5	5	0	1.12	1.36	0.24	0	0	0	0	0	0	0	0
3/25/2024 21:39	41902	REED_T1	0	0	0	0	0	0	0.98	0.97	0	0	0	0	0	0
3/25/2024 21:39	46301	ROHR_T1	177	199	22	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
3/25/2024 21:39	44302	BEAV_T2	1	29	28	0.1	0.2	0.1	0.2	0.22	0	0	0	0	0	0
3/25/2024 21:39	42802	SELI_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
3/25/2024 21:39	61303	EARL_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
3/25/2024 21:39	52403	GRPA_T2	1	0	-1	0.1	0	-0.1	-0.09	-0.15	0	0	0	0	0	0
3/25/2024 21:39	43105	SMIL_T2	5	12	7	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
3/25/2024 21:39	43103	SMIL_T2	17	19	2	0.61	0.62	0.01	0	0	0	0	0	0	0	0
3/25/2024 21:39	44201	POIN_T1	1	17	16	0.1	0.15	0.05	-2.07	-2.11	1	1	0	900	900	0
3/25/2024 21:39	46302	ROHR_T1	47	13	-34	0.28	0.77	0.49	0.17	0.16	0	0	0	0	0	0
3/25/2024 21:39	43104	SMIL_T2	0	0	0	0	0	0	-0.86	-0.87	1	1	0	300	300	0
3/25/2024 21:40	46506	LOHA_T1	1	7	6	0.8	0.31	-0.49	-0.45	-0.48	0	0	0	0	0	0
3/25/2024 21:40	47403	PENS_T1	1	1	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
3/25/2024 21:40	40101	HUNT_T2	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
3/25/2024 21:40	47401	PENS_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
3/25/2024 21:40	46504	LOHA_T1	2	31	29	0.65	0.22	-0.43	0	0	0	0	0	0	0	0
3/25/2024 21:40	46503	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/25/2024 21:41	41902	REED_T1	0	0	0	0	0	0	0.98	0.97	0	0	0	0	0	0
3/25/2024 21:41	44302	BEAV_T2	1	29	28	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/25/2024 21:41	60902	DONG_T2	0	0	0	0	0	0	0.43	0.38	0	0	0	0	0	0
3/25/2024 21:41	41901	REED_T1	5	7	2	0.16	0.23	0.07	0	0	0	0	0	0	0	0
3/25/2024 21:41	44301	BEAV_T2	0	1	1	0	0.1	0.1	-0.22	-0.24	1	1	0	600	600	0
3/25/2024 21:43	52402	GRPA_T2	5	5	0	1.12	1.36	0.24	0	0	0	0	0	0	0	0
3/25/2024 21:43	52403	GRPA_T2	1	0	-1	0.1	0	-0.1	-0.05	-0.08	0	0	0	0	0	0
3/25/2024 21:44	53903	HALI_T2	2	2	0	1.35	1.4	0.05	-0.22	-0.21	0	0	0	0	0	0
3/25/2024 21:44	53902	HALI_T2	1	1	0	5.4	5.7	0.3	0	0	0	0	0	0	0	0
3/25/2024 21:44	53901	HALI_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/25/2024 22:00	51603	DUKE_T1	1	0	-1	0.2	0	-0.2	-0.47	-0.5	0	0	0	0	0	0
3/25/2024 22:51	57401	SPAN_T1	2	2	0	0.4	0.65	0.25	-0.39	-0.42	1	1	0	600	600	0
3/25/2024 23:01	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/25/2024 23:01	54502	ENOL_T2	1	1	0	0.4	0.5	0.1	-1.15	-1.16	1	1	0	600	600	0
3/25/2024 23:11	51306	WIND_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
3/26/2024 1:01	17803	GILB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 1:01	17804	GILB_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
3/26/2024 2:39	64305	LINC_T1	0	0	0	0	0	0	-0.77	-0.71	0	0	0	0	0	0
3/26/2024 7:54	46203	DANV_T2	15	5	-10	0.26	0.16	-0.1	-2.24	-0.87	0	0	0	0	0	0
3/26/2024 7:54	46206	DANV_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/26/2024 7:56	46203	DANV_T2	15	5	-10	0.26	0.16	-0.1	-2.24	-0.87	0	0	0	0	0	0
3/26/2024 7:56	46206	DANV_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/26/2024 7:57	40101	HUNT_T2	68	117	49	0.43	0.44	0.01	-0.13	-0.33	0	0	0	0	0	0
3/26/2024 8:02	40101	HUNT_T2	35	146	111	0.44	0.41	-0.03	-0.13	-0.33	0	0	0	0	0	0
3/26/2024 8:05	48301	ORWI_T1	2	2	0	4.5	4.5	0	0	0	0	0	0	0	0	0
3/26/2024 8:06	29402	BELT_T1	1	1	0	6.9	6.5	-0.4	0	0	0	0	0	0	0	0
3/26/2024 8:06	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/26/2024 8:07	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/26/2024 8:07	29402	BELT_T1	1	1	0	6.9	6.5	-0.4	0	0	0	0	0	0	0	0
3/26/2024 8:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/26/2024 8:09	29402	BELT_T1	1	1	0	6.9	6.5	-0.4	0	0	0	0	0	0	0	0
3/26/2024 8:11	45501	DERR_T2	0	0	0	0	0	0	0.63	0.68	2	2	0	1800	1800	0
3/26/2024 8:11	29402	BELT_T1	1	1	0	6.9	6.5	-0.4	0	0	0	0	0	0	0	0
3/26/2024 8:11	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
3/26/2024 8:11	45502	DERR_T2	0	4	4	0	0.7	0.7	0	0	0	0	0	0	0	0
3/26/2024 8:13	24902	WHHA_T1	9	30	21	1	0.84	-0.16	0	0	0	0	0	0	0	0
3/26/2024 8:14	40101	HUNT_T2	35	146	111	0.44	0.41	-0.03	-0.33	-0.37	0	0	0	0	0	0
3/26/2024 8:16	58402	MORO_T1	0	0	0	0	0	0	-1.06	-0.96	3	3	0	2400	2400	0
3/26/2024 8:16	40101	HUNT_T2	116	121	5	0.4	0.41	0.01	-0.33	-0.37	0	0	0	0	0	0
3/26/2024 8:18	58402	MORO_T1	0	0	0	0	0	0	-1.06	-0.96	3	3	0	2400	2400	0
3/26/2024 8:21	67103	SPRI_T1	0	0	0	0	0	0	-0.09	-0.02	0	0	0	0	0	0
3/26/2024 8:23	56802	BENV_T2	1	2	1	0.3	0.3	0	-1.4	-1.43	0	0	0	0	0	0
3/26/2024 8:25	29402	BELT_T1	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
3/26/2024 8:25	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
3/26/2024 8:25	67103	SPRI_T1	0	0	0	0	0	0	-0.02	-0.1	0	0	0	0	0	0
3/26/2024 8:26	56802	BENV_T2	1	2	1	0.3	0.3	0	-1.4	-1.43	0	0	0	0	0	0
3/26/2024 8:29	52402	GRPA_T2	1	1	0	3.2	3.7	0.5	0	0	0	0	0	0	0	0
3/26/2024 8:29	52401	GRPA_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
3/26/2024 8:29	52403	GRPA_T2	3	4	1	1.33	0.37	-0.96	0	0	0	0	0	0	0	0
3/26/2024 8:29	52404	GRPA_T2	1	1	0	0.6	0	-0.6	0.86	0.8	0	0	0	0	0	0
3/26/2024 8:29	62607	ENGL_T1	0	0	0	0	0	0	-1.11	-1.09	1	1	0	300	300	0
3/26/2024 8:30	52403	GRPA_T2	2	3	1	1.25	0.15	-1.1	0	0	0	0	0	0	0	0
3/26/2024 8:30	52402	GRPA_T2	1	1	0	3.1	3.8	0.7	0	0	0	0	0	0	0	0
3/26/2024 8:30	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/26/2024 8:30	52404	GRPA_T2	1	0	-1	0.4	0	-0.4	0.86	0.8	0	0	0	0	0	0
3/26/2024 8:56	60201	ATGL_T2	0	0	0	0	0	0	-0.09	0.06	1	1	0	600	600	0
3/26/2024 9:07	67402	WAKE_T2	0	0	0	0	0	0	0.48	0.49	1	1	0	600	600	0
3/26/2024 9:11	56802	BENV_T2	94	139	45	0.19	0.28	0.09	-1.43	-1.33	0	0	0	0	0	0
3/26/2024 9:12	56802	BENV_T2	94	139	45	0.19	0.28	0.09	-1.43	-1.33	0	0	0	0	0	0
3/26/2024 9:12	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 9:13	24902	WHHA_T1	8	13	5	1.25	1.27	0.02	0	0	0	0	0	0	0	0
3/26/2024 9:15	13503	MCMI_T2	73	76	3	0.34	0.34	0	-0.88	-0.86	0	0	0	0	0	0
3/26/2024 9:19	55002	NEWP_T1	5	5	0	0.96	0.98	0.02	-0.38	-0.44	0	0	0	0	0	0
3/26/2024 9:19	67001	STHI_T2	440	323	-117	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
3/26/2024 9:19	67002	STHI_T2	273	155	-118	0.2	0.15	-0.05	0.58	0.6	0	0	0	0	0	0
3/26/2024 9:20	55002	NEWP_T1	5	5	0	0.96	0.98	0.02	-0.38	-0.44	0	0	0	0	0	0
3/26/2024 9:20	67002	STHI_T2	273	155	-118	0.2	0.15	-0.05	0.58	0.6	0	0	0	0	0	0
3/26/2024 9:20	41801	GOCI_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
3/26/2024 9:20	67001	STHI_T2	440	323	-117	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
3/26/2024 9:21	48302	ORWI_T2	2	2	0	1.25	0.75	-0.5	0.14	0.2	0	0	0	0	0	0
3/26/2024 9:22	67001	STHI_T2	440	323	-117	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
3/26/2024 9:22	67002	STHI_T2	273	155	-118	0.2	0.15	-0.05	1.15	1.19	0	0	0	0	0	0
3/26/2024 9:22	45901	AUBU_T1	0	0	0	0	0	0	1.62	1.61	0	0	0	0	0	0
3/26/2024 9:23	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 9:24	48302	ORWI_T2	2	2	0	1.25	0.75	-0.5	0	0	0	0	0	0	0	0
3/26/2024 9:24	67002	STHI_T2	273	155	-118	0.2	0.15	-0.05	0.6	0.59	0	0	0	0	0	0
3/26/2024 9:24	67001	STHI_T2	440	323	-117	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
3/26/2024 9:24	45902	AUBU_T1	0	0	0	0	0	0	-0.83	0.01	2	2	0	1200	1200	0
3/26/2024 9:25	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 9:26	10805	OHHI_T2	13	10	-3	2.25	1.79	-0.46	-0.64	-0.75	1	1	0	600	600	0
3/26/2024 9:27	56802	BENV_T2	139	211	72	0.28	0.41	0.13	-2.65	-2.73	0	0	0	0	0	0
3/26/2024 9:30	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 9:30	52402	GRPA_T2	1	4	3	3.2	1.18	-2.02	-1.8	-1.82	0	0	0	0	0	0
3/26/2024 9:30	52403	GRPA_T2	0	6	6	0	0.43	0.43	0	0	0	0	0	0	0	0
3/26/2024 9:30	52401	GRPA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/26/2024 9:31	40902	JESH_T1	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
3/26/2024 9:31	43202	MVIL_T2	9	38	29	0.21	0.22	0.01	-0.53	-0.57	0	0	0	0	0	0
3/26/2024 9:33	48302	ORWI_T2	2	2	0	0.75	0.55	-0.2	0.2	0.17	0	0	0	0	0	0
3/26/2024 9:39	44301	BEAV_T2	1	1	0	0	0.1	0.1	0.24	0.12	2	2	0	1500	1500	0
3/26/2024 9:40	54501	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 9:40	54505	ENOL_T2	1	1	0	0.9	1	0.1	-1.26	-1.27	1	1	0	600	600	0
3/26/2024 9:40	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/26/2024 9:40	29402	BELT_T1	1	1	0	6.7	6.9	0.2	0	0	0	0	0	0	0	0
3/26/2024 9:41	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/26/2024 9:41	54501	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 9:41	54505	ENOL_T2	1	1	0	0.9	1	0.1	-1.26	-1.27	1	1	0	600	600	0
3/26/2024 9:43	54501	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 9:43	54505	ENOL_T2	1	1	0	0.9	1	0.1	-1.26	-1.27	1	1	0	600	600	0
3/26/2024 9:43	29402	BELT_T1	1	1	0	6.7	6.9	0.2	0	0	0	0	0	0	0	0
3/26/2024 9:43	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/26/2024 9:45	40502	CRES_T2	5	11	6	0.1	0.28	0.18	-0.38	0.19	0	0	0	0	0	0
3/26/2024 9:45	40501	CRES_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 9:46	13503	MCMI_T2	76	92	16	0.34	0.36	0.02	-0.88	-0.88	0	0	0	0	0	0
3/26/2024 9:46	45901	AUBU_T1	0	0	0	0	0	0	1.63	0.01	0	0	0	0	0	0
3/26/2024 9:47	43202	MVIL_T2	38	56	18	0.22	0.39	0.17	-1.14	-1.16	0	0	0	0	0	0
3/26/2024 9:47	41902	REED_T1	0	1	1	0	0	0	1.07	1.14	0	0	0	0	0	0
3/26/2024 9:47	41901	REED_T1	5	8	3	0.18	0.29	0.11	0	0	0	0	0	0	0	0
3/26/2024 9:47	59301	MCAL_T1	2	7	5	0.8	0.43	-0.37	-0.97	-0.96	0	0	0	0	0	0
3/26/2024 9:47	59302	MCAL_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/26/2024 9:48	13503	MCMI_T2	76	92	16	0.34	0.36	0.02	-0.88	-0.88	0	0	0	0	0	0
3/26/2024 9:48	45901	AUBU_T1	0	0	0	0	0	0	1.63	0.01	0	0	0	0	0	0
3/26/2024 9:48	66504	SMAN_T2	0	0	0	0	0	0	-0.89	-0.93	0	0	0	0	0	0
3/26/2024 9:50	14404	SSLA_T1	8	132	124	1.03	0.26	-0.77	0	0	0	0	0	0	0	0
3/26/2024 9:50	14403	SSLA_T1	0	18	18	0	0.19	0.19	0.84	0.81	0	0	0	0	0	0
3/26/2024 9:50	14401	SSLA_T1	1	11	10	0.2	0.24	0.04	0	0	0	0	0	0	0	0
3/26/2024 9:50	26001	WDAM_T1	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
3/26/2024 9:50	14402	SSLA_T1	37	189	152	0.13	0.27	0.14	0	0	0	0	0	0	0	0
3/26/2024 9:51	67103	SPRI_T1	0	0	0	0	0	0	-0.06	-0.1	0	0	0	0	0	0
3/26/2024 9:51	41902	REED_T1	0	1	1	0	0	0	1.07	1.14	0	0	0	0	0	0
3/26/2024 9:51	41901	REED_T1	5	8	3	0.18	0.29	0.11	0	0	0	0	0	0	0	0
3/26/2024 9:52	14403	SSLA_T1	0	18	18	0	0.19	0.19	0.84	0.81	0	0	0	0	0	0
3/26/2024 9:52	67402	WAKE_T2	0	0	0	0	0	0	0.5	0.46	1	1	0	600	600	0
3/26/2024 9:52	14404	SSLA_T1	8	132	124	1.03	0.26	-0.77	0	0	0	0	0	0	0	0
3/26/2024 9:52	14402	SSLA_T1	37	189	152	0.13	0.27	0.14	0	0	0	0	0	0	0	0
3/26/2024 9:52	67204	TEHI_T2	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
3/26/2024 9:52	41901	REED_T1	5	8	3	0.18	0.29	0.11	0	0	0	0	0	0	0	0
3/26/2024 9:52	41902	REED_T1	0	1	1	0	0	0	1.07	1.14	0	0	0	0	0	0
3/26/2024 9:52	46702	RENO_T1	0	1	1	0	0.1	0.1	-0.14	-0.13	0	0	0	0	0	0
3/26/2024 9:52	14401	SSLA_T1	1	11	10	0.2	0.24	0.04	0	0	0	0	0	0	0	0
3/26/2024 9:52	46701	RENO_T1	2	4	2	4.2	2.8	-1.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/26/2024 9:54	67204	TEHI_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
3/26/2024 9:54	20403	ASHF_T2	27	4	-23	0.18	0.23	0.05	-0.57	-0.69	0	0	0	0	0	0
3/26/2024 9:54	20401	ASHF_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/26/2024 9:55	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 9:55	46203	DANV_T2	82	177	95	0.35	0.63	0.28	-0.97	-0.97	0	0	0	0	0	0
3/26/2024 9:55	67605	WARW_T1	16	20	4	0.33	0.49	0.16	-1.95	-1.99	0	0	0	0	0	0
3/26/2024 9:57	26401	INOR_T1	0	0	0	0	0	0	0.88	0.96	0	0	0	0	0	0
3/26/2024 9:57	20401	ASHF_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/26/2024 9:57	20403	ASHF_T2	27	4	-23	0.18	0.23	0.05	-0.57	-0.69	0	0	0	0	0	0
3/26/2024 9:58	28801	LAKE_T1	83	119	36	0.16	0.19	0.03	0	0	0	0	0	0	0	0
3/26/2024 9:58	28805	LAKE_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
3/26/2024 9:58	26401	INOR_T1	0	0	0	0	0	0	0.88	0.96	0	0	0	0	0	0
3/26/2024 9:59	25402	LAHA_T2	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
3/26/2024 10:00	64802	MONE_T2	2	37	35	0.3	0.35	0.05	0.11	0.11	0	0	0	0	0	0
3/26/2024 10:00	43202	MVIL_T2	20	57	37	0.17	0.39	0.22	0	0	0	0	0	0	0	0
3/26/2024 10:00	41901	REED_T1	5	9	4	0.2	0.49	0.29	0	0	0	0	0	0	0	0
3/26/2024 10:00	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
3/26/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.74	0.63	0	0	0	0	0	0
3/26/2024 10:00	53902	HALI_T2	1	1	0	6.1	5.5	-0.6	0	0	0	0	0	0	0	0
3/26/2024 10:00	41902	REED_T1	1	0	-1	0.1	0	-0.1	1.14	1.2	0	0	0	0	0	0
3/26/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
3/26/2024 10:00	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	-0.13	-0.14	1	1	0	600	600	0
3/26/2024 10:00	67204	TEHI_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
3/26/2024 10:00	40101	HUNT_T2	3	4	1	0.23	0	-0.23	-0.25	-0.25	0	0	0	0	0	0
3/26/2024 10:00	53901	HALI_T2	2	1	-1	0.75	0.8	0.05	0	0	0	0	0	0	0	0
3/26/2024 10:00	47401	PENS_T1	1	2	1	0.1	0.15	0.05	2.46	2.39	0	0	0	0	0	0
3/26/2024 10:00	67001	STHI_T2	410	577	167	0.23	0.28	0.05	0	0	0	0	0	0	0	0
3/26/2024 10:00	46701	RENO_T1	1	48	47	8.2	0.34	-7.86	0	0	0	0	0	0	0	0
3/26/2024 10:00	57303	MOAL_T2	1	1	0	6.9	7	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:00	66303	MCGO_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/26/2024 10:00	57304	MOAL_T2	1	3	2	0.1	0.23	0.13	-0.88	-0.83	0	0	0	0	0	0
3/26/2024 10:00	67002	STHI_T2	266	367	101	0.21	0.27	0.06	1.79	1.83	0	0	0	0	0	0
3/26/2024 10:00	66301	MCGO_T2	0	54	54	0	0.14	0.14	0	0	0	0	0	0	0	0
3/26/2024 10:00	48302	ORWI_T2	2	2	0	0.45	0.95	0.5	0.27	0.23	0	0	0	0	0	0
3/26/2024 10:00	62607	ENGL_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/26/2024 10:00	46702	RENO_T1	0	12	12	0	0.13	0.13	-0.13	-0.11	0	0	0	0	0	0
3/26/2024 10:00	26001	WDAM_T1	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
3/26/2024 10:00	53903	HALI_T2	5	3	-2	0.78	1.07	0.29	-0.14	-0.1	0	0	0	0	0	0
3/26/2024 10:00	64801	MONE_T2	54	46	-8	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
3/26/2024 10:00	28803	LAKE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.9	-0.91	3	3	0	2400	2400	0
3/26/2024 10:00	42902	MIDD_T2	2	3	1	0.5	0.5	0	0	0	0	0	0	0	0	0
3/26/2024 10:00	45602	WOOL_T1	3	3	0	0.57	0.77	0.2	0.99	1.1	0	0	0	0	0	0
3/26/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.09	-0.06	0	0	0	0	0	0
3/26/2024 10:00	57403	SPAN_T1	58	23	-35	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
3/26/2024 10:00	42903	MIDD_T2	2	2	0	0.2	0.45	0.25	0.45	0.41	1	1	0	1200	1200	0
3/26/2024 10:00	40505	CRES_T1	1	0	-1	0.2	0	-0.2	0.36	0.35	0	0	0	0	0	0
3/26/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.3	-0.27	1	1	0	600	600	0
3/26/2024 10:00	28805	LAKE_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
3/26/2024 10:00	29402	BELT_T1	1	2	1	6.9	7.4	0.5	0	0	0	0	0	0	0	0
3/26/2024 10:00	17002	RIRO_T2	4	13	9	0.53	0.35	-0.18	0.63	0.67	0	0	0	0	0	0
3/26/2024 10:00	46206	DANV_T2	0	0	0	0	0	0	2.24	2.05	1	1	0	1200	1200	0
3/26/2024 10:00	29401	BELT_T1	0	11	11	0	0.12	0.12	0	0	3	3	0	2700	2700	0
3/26/2024 10:00	57401	SPAN_T1	5	3	-2	0.64	0.8	0.16	-1.18	-1.17	1	1	0	600	600	0
3/26/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	-0.8	-0.84	0	0	0	0	0	0
3/26/2024 10:00	43201	MVIL_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
3/26/2024 10:00	62605	ENGL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/26/2024 10:00	66302	MCGO_T2	0	60	60	0	0.15	0.15	-0.78	-0.8	1	1	0	600	600	0
3/26/2024 10:00	46203	DANV_T2	101	189	88	0.45	0.65	0.2	0	0	0	0	0	0	0	0
3/26/2024 10:00	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:00	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/26/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
3/26/2024 10:00	58001	WCAR_T1	7	7	0	0.76	0.79	0.03	0	0	0	0	0	0	0	0
3/26/2024 10:00	58003	WCAR_T1	39	50	11	0.23	0.27	0.04	0.74	0.7	0	0	0	0	0	0
3/26/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
3/26/2024 10:00	10801	OHHI_T1	0	0	0	0	0	0	-0.82	-0.87	1	1	0	900	900	0
3/26/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.46	0.45	1	1	0	600	600	0
3/26/2024 10:00	28801	LAKE_T1	15	123	108	0.1	0.19	0.09	0	0	0	0	0	0	0	0
3/26/2024 10:00	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:06	67001	STHI_T2	410	577	167	0.23	0.28	0.05	0	0	0	0	0	0	0	0
3/26/2024 10:06	40101	HUNT_T2	3	4	1	0.23	0	-0.23	-0.25	-0.25	0	0	0	0	0	0
3/26/2024 10:06	67103	SPRI_T1	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
3/26/2024 10:06	67002	STHI_T2	266	367	101	0.21	0.27	0.06	0.6	0.61	0	0	0	0	0	0
3/26/2024 10:07	67103	SPRI_T1	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
3/26/2024 10:07	24102	EHAZ_T1	1	3	2	0.8	0	-0.8	0	0	0	0	0	0	0	0
3/26/2024 10:07	57401	SPAN_T1	5	3	-2	0.64	0.8	0.16	-1.18	-1.17	1	1	0	600	600	0
3/26/2024 10:07	40101	HUNT_T2	3	4	1	0.23	0	-0.23	-0.5	-0.5	0	0	0	0	0	0
3/26/2024 10:07	60701	BREC_T1	0	0	0	0	0	0	-0.32	-0.33	2	2	0	1200	1200	0
3/26/2024 10:07	67001	STHI_T2	410	577	167	0.23	0.28	0.05	0	0	0	0	0	0	0	0
3/26/2024 10:07	53501	EVIL_T2	2	2	0	0.8	1.05	0.25	-0.32	-0.38	1	1	0	600	600	0
3/26/2024 10:07	67605	WARW_T1	18	22	4	0.52	0.52	0	-0.97	-0.99	0	0	0	0	0	0
3/26/2024 10:07	58003	WCAR_T1	39	50	11	0.23	0.27	0.04	0.74	0.7	0	0	0	0	0	0
3/26/2024 10:07	52401	GRPA_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
3/26/2024 10:07	52402	GRPA_T2	4	8	4	1.13	0.89	-0.24	0	0	0	0	0	0	0	0
3/26/2024 10:07	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
3/26/2024 10:07	67402	WAKE_T2	0	0	0	0	0	0	0.46	0.45	1	1	0	600	600	0
3/26/2024 10:07	40502	CRES_T2	10	15	5	0.15	0.44	0.29	0.19	0.16	0	0	0	0	0	0
3/26/2024 10:07	40501	CRES_T2	0	8	8	0	0.18	0.18	0	0	0	0	0	0	0	0
3/26/2024 10:07	58001	WCAR_T1	7	7	0	0.76	0.79	0.03	0	0	0	0	0	0	0	0
3/26/2024 10:07	20403	ASHF_T2	3	4	1	0.2	0.23	0.03	-0.57	-0.69	0	0	0	0	0	0
3/26/2024 10:07	67002	STHI_T2	266	367	101	0.21	0.27	0.06	0.6	0.61	0	0	0	0	0	0
3/26/2024 10:07	57403	SPAN_T1	58	23	-35	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
3/26/2024 10:07	47401	PENS_T1	1	2	1	0.1	0.15	0.05	0.82	0.8	0	0	0	0	0	0
3/26/2024 10:07	52403	GRPA_T2	6	10	4	0.43	0.59	0.16	0	0.04	0	0	0	0	0	0
3/26/2024 10:07	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:07	24105	EHAZ_T1	4	4	0	6.58	6.4	-0.18	-0.67	-0.63	1	1	0	1200	1200	0
3/26/2024 10:07	15001	BLMO_T1	5	6	1	0.12	0.22	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:07	42701	AUGU_T1	1	1	0	1.1	1.2	0.1	0	0	4	4	0	3600	3600	0
3/26/2024 10:08	67002	STHI_T2	266	367	101	0.21	0.27	0.06	1.19	1.22	0	0	0	0	0	0
3/26/2024 10:08	12505	MITR_T2	0	0	0	0	0	0	1.09	1.05	0	0	0	0	0	0
3/26/2024 10:08	46004	BERW_T2	0	1	1	0	0	0	-0.16	-0.22	0	0	0	0	0	0
3/26/2024 10:08	67603	WARW_T1	0	0	0	0	0	0	0.03	0.06	0	0	0	0	0	0
3/26/2024 10:08	60801	BUCK_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
3/26/2024 10:08	12502	MITR_T2	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
3/26/2024 10:08	57401	SPAN_T1	5	3	-2	0.64	0.8	0.16	-1.17	-1.17	1	1	0	600	600	0
3/26/2024 10:08	67001	STHI_T2	410	577	167	0.23	0.28	0.05	0	0	0	0	0	0	0	0
3/26/2024 10:08	57403	SPAN_T1	58	23	-35	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
3/26/2024 10:08	52001	LING_T1	0	0	0	0	0	0	0.26	0.21	0	0	0	0	0	0
3/26/2024 10:08	56802	BENV_T2	277	297	20	0.57	0.61	0.04	-2.56	-2.63	0	0	0	0	0	0
3/26/2024 10:08	67605	WARW_T1	18	22	4	0.52	0.52	0	0	0	0	0	0	0	0	0
3/26/2024 10:09	58001	WCAR_T1	7	7	0	0.76	0.79	0.03	0	0	0	0	0	0	0	0
3/26/2024 10:09	29401	BELT_T1	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
3/26/2024 10:09	29402	BELT_T1	1	2	1	6.9	7.4	0.5	0	0	0	0	0	0	0	0
3/26/2024 10:09	60201	ATGL_T2	0	0	0	0	0	0	0.07	-0.05	1	1	0	600	600	0
3/26/2024 10:09	56802	BENV_T2	277	297	20	0.57	0.61	0.04	-1.28	-1.31	0	0	0	0	0	0
3/26/2024 10:09	10801	OHHI_T1	0	0	0	0	0	0	-0.87	-0.83	1	1	0	900	900	0
3/26/2024 10:09	67001	STHI_T2	410	577	167	0.23	0.28	0.05	0	0	0	0	0	0	0	0
3/26/2024 10:09	58003	WCAR_T1	39	50	11	0.23	0.27	0.04	0.7	0.71	0	0	0	0	0	0
3/26/2024 10:09	15001	BLMO_T1	5	6	1	0.12	0.22	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:09	67103	SPRI_T1	0	0	0	0	0	0	-0.06	-0.01	0	0	0	0	0	0
3/26/2024 10:09	67002	STHI_T2	266	367	101	0.21	0.27	0.06	1.22	1.17	0	0	0	0	0	0
3/26/2024 10:10	42701	AUGU_T1	1	1	0	1.1	1.2	0.1	0	0	2	2	0	1800	1800	0
3/26/2024 10:10	29401	BELT_T1	0	11	11	0	0.12	0.12	0	0	1	0	-1	900	0	-900
3/26/2024 10:10	29402	BELT_T1	1	2	1	6.9	7.4	0.5	0	0	0	0	0	0	0	0
3/26/2024 10:10	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0.15	0.08	2	2	0	1500	1500	0
3/26/2024 10:10	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:10	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:10	54501	ENOL_T2	0	0	0	0	0	0	0.12	0.08	0	0	0	0	0	0
3/26/2024 10:10	20403	ASHF_T2	3	4	1	0.2	0.23	0.03	-0.69	-0.75	0	0	0	0	0	0
3/26/2024 10:10	46203	DANV_T2	101	189	88	0.45	0.65	0.2	-0.97	-1.01	0	0	0	0	0	0
3/26/2024 10:10	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:10	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:11	45501	DERR_T2	0	0	0	0	0	0	0.87	1.01	2	2	0	1800	1800	0
3/26/2024 10:11	17803	GILB_T2	0	11	11	0	0.16	0.16	0	0	0	0	0	0	0	0
3/26/2024 10:11	46203	DANV_T2	101	189	88	0.45	0.65	0.2	-0.97	-1.01	0	0	0	0	0	0
3/26/2024 10:11	17804	GILB_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
3/26/2024 10:11	42701	AUGU_T1	1	1	0	1.1	1.2	0.1	0	0	2	2	0	1800	1800	0
3/26/2024 10:11	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 10:11	54505	ENOL_T2	1	1	0	0.9	1	0.1	-1.25	-1.29	1	1	0	600	600	0
3/26/2024 10:11	17805	GILB_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
3/26/2024 10:11	15001	BLMO_T1	5	6	1	0.12	0.22	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:11	67605	WARW_T1	18	22	4	0.52	0.52	0	-1.99	-2.03	0	0	0	0	0	0
3/26/2024 10:11	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:11	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:11	56802	BENV_T2	277	297	20	0.57	0.61	0.04	-3.84	-3.94	0	0	0	0	0	0
3/26/2024 10:11	10801	OHHI_T1	0	0	0	0	0	0	-0.87	-0.83	1	1	0	900	900	0
3/26/2024 10:12	54504	ENOL_T2	0	0	0	0	0	0	-1.03	-1.02	1	1	0	600	600	0
3/26/2024 10:12	17803	GILB_T2	0	11	11	0	0.16	0.16	0	0	0	0	0	0	0	0
3/26/2024 10:12	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 10:12	29401	BELT_T1	0	11	11	0	0.12	0.12	0	0	3	0	-3	2700	0	-2700
3/26/2024 10:12	56802	BENV_T2	277	297	20	0.57	0.61	0.04	-1.28	-1.31	0	0	0	0	0	0
3/26/2024 10:12	17804	GILB_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
3/26/2024 10:12	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:12	29402	BELT_T1	1	2	1	6.9	7.4	0.5	0	0	0	0	0	0	0	0
3/26/2024 10:12	45501	DERR_T2	0	0	0	0	0	0	0.87	1.01	2	2	0	1800	1800	0
3/26/2024 10:12	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:12	17805	GILB_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
3/26/2024 10:13	46203	DANV_T2	101	189	88	0.45	0.65	0.2	-0.97	-1.01	0	0	0	0	0	0
3/26/2024 10:13	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:13	41802	GOCI_T2	0	17	17	0	0.22	0.22	0	0	0	0	0	0	0	0
3/26/2024 10:13	54505	ENOL_T2	1	1	0	0.9	1	0.1	-1.25	-1.29	1	1	0	600	600	0
3/26/2024 10:13	67204	TEHI_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/26/2024 10:13	53902	HALI_T2	1	1	0	6.1	5.5	-0.6	0	0	0	0	0	0	0	0
3/26/2024 10:13	40902	JESH_T1	0	0	0	0	0	0	-0.82	-0.91	0	0	0	0	0	0
3/26/2024 10:13	41801	GOCI_T2	5	30	25	0.42	0.21	-0.21	0	0	0	0	0	0	0	0
3/26/2024 10:13	56802	BENV_T2	277	297	20	0.57	0.61	0.04	-2.56	-2.63	0	0	0	0	0	0
3/26/2024 10:13	53903	HALI_T2	5	3	-2	0.78	1.07	0.29	-0.1	-0.13	0	0	0	0	0	0
3/26/2024 10:13	53901	HALI_T2	2	1	-1	0.75	0.8	0.05	0	0	0	0	0	0	0	0
3/26/2024 10:13	24902	WHHA_T1	2	2	0	1.2	1.35	0.15	0	0	0	0	0	0	0	0
3/26/2024 10:13	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:14	53901	HALI_T2	2	1	-1	0.75	0.8	0.05	0	0	0	0	0	0	0	0
3/26/2024 10:14	28801	LAXE_T1	15	123	108	0.1	0.19	0.09	0	0	0	0	0	0	0	0
3/26/2024 10:14	17803	GILB_T2	0	11	11	0	0.16	0.16	0	0	0	0	0	0	0	0
3/26/2024 10:14	17805	GILB_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
3/26/2024 10:14	53902	HALI_T2	1	1	0	6.1	5.5	-0.6	0	0	0	0	0	0	0	0
3/26/2024 10:14	56802	BENV_T2	277	297	20	0.57	0.61	0.04	-2.56	-2.63	0	0	0	0	0	0
3/26/2024 10:14	46506	LOHA_T1	1	63	62	1	0.14	-0.86	-0.38	-0.38	0	0	0	0	0	0
3/26/2024 10:14	46503	LOHA_T1	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
3/26/2024 10:14	53903	HALI_T2	5	3	-2	0.78	1.07	0.29	-0.1	-0.13	0	0	0	0	0	0
3/26/2024 10:14	28805	LAXE_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
3/26/2024 10:14	46504	LOHA_T1	2	38	36	1	0.25	-0.75	0	0	0	0	0	0	0	0
3/26/2024 10:14	13901	SEID_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
3/26/2024 10:14	13503	MCMI_T2	48	180	132	0.26	0.4	0.14	-0.89	-0.91	0	0	0	0	0	0
3/26/2024 10:14	10805	CHHI_T2	13	11	-2	1.9	1.86	-0.04	-0.64	-0.76	1	1	0	600	600	0
3/26/2024 10:14	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:14	17804	GILB_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
3/26/2024 10:14	54505	ENOL_T2	1	1	0	0.9	1	0.1	-1.25	-1.29	1	1	0	600	600	0
3/26/2024 10:14	28803	LAKE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 10:15	45502	DERR_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:15	53901	HALI_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:15	45501	DERR_T2	0	0	0	0	0	0	0.87	1.01	2	2	0	1800	1800	0
3/26/2024 10:15	53902	HALI_T2	1	1	0	5.5	5.9	0.4	0	0	0	0	0	0	0	0
3/26/2024 10:15	46504	LOHA_T1	2	39	37	0.6	0.24	-0.36	0	0	0	0	0	0	0	0
3/26/2024 10:15	13503	MCMI_T2	91	180	89	0.36	0.4	0.04	-0.89	-0.91	0	0	0	0	0	0
3/26/2024 10:15	46503	LOHA_T1	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
3/26/2024 10:15	46506	LOHA_T1	2	63	61	0.55	0.15	-0.4	-0.38	-0.38	0	0	0	0	0	0
3/26/2024 10:15	17804	GILB_T2	1	2	1	0.8	0.4	-0.4	-0.56	-0.57	0	0	0	0	0	0
3/26/2024 10:15	53903	HALI_T2	3	2	-1	1.07	1.5	0.43	-0.1	-0.13	0	0	0	0	0	0
3/26/2024 10:15	17803	GILB_T2	11	0	-11	0.16	0	-0.16	0	0	0	0	0	0	0	0
3/26/2024 10:16	41802	GOCI_T2	8	17	9	0.13	0.22	0.09	0	0	0	0	0	0	0	0
3/26/2024 10:16	46506	LOHA_T1	2	63	61	0.55	0.15	-0.4	-0.38	-0.38	0	0	0	0	0	0
3/26/2024 10:16	46503	LOHA_T1	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
3/26/2024 10:16	41801	GOCI_T2	11	31	20	0.28	0.19	-0.09	0	0	0	0	0	0	0	0
3/26/2024 10:16	46504	LOHA_T1	2	39	37	0.6	0.24	-0.36	0	0	0	0	0	0	0	0
3/26/2024 10:17	13503	MCMI_T2	91	180	89	0.36	0.4	0.04	-0.89	-0.91	0	0	0	0	0	0
3/26/2024 10:17	65001	NEFF_T2	0	1	1	0	0.2	0.2	-0.51	-0.53	1	1	0	1200	1200	0
3/26/2024 10:17	55002	NEWP_T1	6	11	5	0.83	1.02	0.19	-0.6	-0.54	0	0	0	0	0	0
3/26/2024 10:17	65003	NEFF_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/26/2024 10:17	52403	GRPA_T2	10	11	1	0.54	0.51	-0.03	0	0	0	0	0	0	0	0
3/26/2024 10:17	52402	GRPA_T2	7	9	2	0.87	0.78	-0.09	-1.86	-1.88	0	0	0	0	0	0
3/26/2024 10:17	55001	NEWP_T1	15	12	-3	0.19	0.23	0.04	0	0	0	0	0	0	0	0
3/26/2024 10:17	65004	NEFF_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/26/2024 10:17	24902	WHHA_T1	2	15	13	1.4	1.45	0.05	0	0	0	0	0	0	0	0
3/26/2024 10:17	13501	MCMI_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
3/26/2024 10:17	52401	GRPA_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
3/26/2024 10:17	58401	MORO_T1	0	0	0	0	0	0	-0.91	-0.94	1	1	0	600	600	0
3/26/2024 10:18	47403	PENS_T1	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
3/26/2024 10:18	55002	NEWP_T1	6	11	5	0.83	1.02	0.19	-0.2	-0.18	0	0	0	0	0	0
3/26/2024 10:18	41902	REED_T1	0	0	0	0	0	0	2.4	2.37	0	0	0	0	0	0
3/26/2024 10:18	13503	MCMI_T2	91	180	89	0.36	0.4	0.04	-0.89	-0.91	0	0	0	0	0	0
3/26/2024 10:18	41901	REED_T1	8	9	1	0.29	0.49	0.2	0	0	0	0	0	0	0	0
3/26/2024 10:18	47401	PENS_T1	2	2	0	0.15	0.2	0.05	1.59	1.59	0	0	0	0	0	0
3/26/2024 10:18	55001	NEWP_T1	15	12	-3	0.19	0.23	0.04	0	0	0	0	0	0	0	0
3/26/2024 10:18	40601	PIGR_T1	3	43	40	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/26/2024 10:18	40602	PIGR_T1	0	0	0	0	0	0	-1.03	-0.94	2	2	0	1200	1200	0
3/26/2024 10:19	40601	PIGR_T1	3	43	40	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/26/2024 10:19	58402	MORO_T1	0	0	0	0	0	0	-0.91	-0.91	3	3	0	2400	2400	0
3/26/2024 10:19	43202	MVIL_T2	56	57	1	0.39	0.36	-0.03	-0.59	-0.59	0	0	0	0	0	0
3/26/2024 10:19	40602	PIGR_T1	0	0	0	0	0	0	-0.51	-0.47	1	1	0	600	600	0
3/26/2024 10:21	40603	PIGR_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
3/26/2024 10:21	57401	SPAN_T1	3	4	1	0.8	0.88	0.08	-1.17	-1.17	1	1	0	600	600	0
3/26/2024 10:21	40601	PIGR_T1	3	43	40	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/26/2024 10:21	57403	SPAN_T1	18	42	24	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
3/26/2024 10:21	43202	MVIL_T2	56	57	1	0.39	0.36	-0.03	-0.59	-0.59	0	0	0	0	0	0
3/26/2024 10:22	43202	MVIL_T2	56	57	1	0.39	0.36	-0.03	-0.59	-0.59	0	0	0	0	0	0
3/26/2024 10:23	29401	BELT_T1	11	1	-10	0.12	0.2	0.08	0	0	1	0	-1	900	0	-900
3/26/2024 10:23	56802	BENV_T2	216	299	83	0.33	0.61	0.28	-1.31	-1.33	0	0	0	0	0	0
3/26/2024 10:23	29402	BELT_T1	2	1	-1	4.8	7.4	2.6	0	0	0	0	0	0	0	0
3/26/2024 10:23	57401	SPAN_T1	3	4	1	0.8	0.88	0.08	-1.17	-0.9	1	1	0	600	600	0
3/26/2024 10:23	57403	SPAN_T1	18	42	24	0.33	0.27	-0.06	0.05	0.04	0	0	0	0	0	0
3/26/2024 10:25	52202	DEVO_T2	1	1	0	0.4	0.5	0.1	-0.8	-0.76	0	0	0	0	0	0
3/26/2024 10:25	10702	CATA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/26/2024 10:25	10705	CATA_T2	1	1	0	0.1	1.3	1.2	-1.96	-2.02	2	2	0	1800	1800	0
3/26/2024 10:26	56802	BENV_T2	216	299	83	0.33	0.61	0.28	-1.31	-1.33	0	0	0	0	0	0
3/26/2024 10:29	40101	HUNT_T2	2	4	2	0.1	0	-0.1	-0.28	-0.28	0	0	0	0	0	0
3/26/2024 10:30	17804	GILB_T2	2	1	-1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/26/2024 10:30	17805	GILB_T2	0	0	0	0	0	0	0.02	-0.05	0	0	0	0	0	0
3/26/2024 10:31	66502	SMAN_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
3/26/2024 10:31	66505	SMAN_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
3/26/2024 10:31	66504	SMAN_T2	0	1	1	0	0.6	0.6	-0.84	-0.86	0	0	0	0	0	0
3/26/2024 10:31	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/26/2024 10:31	40101	HUNT_T2	2	6	4	0.55	0.1	-0.45	-0.28	-0.28	0	0	0	0	0	0
3/26/2024 10:31	42201	SHEN_T2	0	0	0	0	0	0	-0.16	-0.15	1	1	0	600	600	0
3/26/2024 10:32	64202	KINZ_T1	3	2	-1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
3/26/2024 10:32	64203	KINZ_T1	0	0	0	0	0	0	1.51	1.62	1	1	0	600	600	0
3/26/2024 10:32	64204	KINZ_T1	1	1	0	0.9	1.4	0.5	0	0	0	0	0	0	0	0
3/26/2024 10:32	16402	MOPO_T1	0	1	1	0	0	0	0.11	0.15	0	0	0	0	0	0
3/26/2024 10:36	45402	WBLO_T2	2	0	-2	0.3	0	-0.3	-0.76	-0.73	0	0	0	0	0	0
3/26/2024 10:37	27502	WEIS_T2	0	0	0	0	0	0	-0.39	-0.49	0	0	0	0	0	0
3/26/2024 10:37	27503	WEIS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:38	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 10:39	59102	WALK_T2	26	31	5	0.35	0.36	0.01	0	0	0	0	0	0	0	0
3/26/2024 10:39	45402	WBLO_T2	2	0	-2	0.3	0	-0.3	-0.73	-0.76	0	0	0	0	0	0
3/26/2024 10:39	59101	WALK_T2	1	0	-1	0.3	0	-0.3	1.37	1.32	0	0	0	0	0	0
3/26/2024 10:40	65001	NEFF_T2	0	16	16	0	0.18	0.18	-0.48	-0.41	1	1	0	1200	1200	0
3/26/2024 10:40	59101	WALK_T2	1	0	-1	0.3	0	-0.3	1.37	1.32	0	0	0	0	0	0
3/26/2024 10:40	59102	WALK_T2	26	31	5	0.35	0.36	0.01	0	0	0	0	0	0	0	0
3/26/2024 10:40	65002	NEFF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:40	65005	NEFF_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
3/26/2024 10:40	65003	NEFF_T2	1	7	6	0.3	0.39	0.09	0	0	0	0	0	0	0	0
3/26/2024 10:40	65004	NEFF_T2	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
3/26/2024 10:41	56601	HAMP_T1	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
3/26/2024 10:41	56603	HAMP_T1	0	0	0	0	0	0	-1.26	-1.2	0	0	0	0	0	0
3/26/2024 10:42	60201	ATGL_T2	0	0	0	0	0	0	-0.09	0.55	1	0	-1	600	0	-600
3/26/2024 10:45	46801	HEPB_T2	0	2	2	0	0.1	0.1	0.6	0.64	0	0	0	0	0	0
3/26/2024 10:47	64801	MONE_T2	51	125	74	0.38	0.41	0.03	0	0	0	0	0	0	0	0
3/26/2024 10:47	40101	HUNT_T2	2	7	5	0.1	0.15	0.05	-0.28	-0.27	0	0	0	0	0	0
3/26/2024 10:47	64802	MONE_T2	50	61	11	0.39	0.45	0.06	0.08	0.09	0	0	0	0	0	0
3/26/2024 10:50	57403	SPAN_T1	40	123	83	0.28	0.28	0	0.04	0.05	0	0	0	0	0	0
3/26/2024 10:50	57401	SPAN_T1	4	28	24	0.83	0.36	-0.47	0	0	0	0	0	0	0	0
3/26/2024 10:52	26002	WDAM_T1	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
3/26/2024 10:52	57403	SPAN_T1	40	123	83	0.28	0.28	0	0.04	0.05	0	0	0	0	0	0
3/26/2024 10:52	57401	SPAN_T1	4	28	24	0.83	0.36	-0.47	0	0	0	0	0	0	0	0
3/26/2024 10:52	26001	WDAM_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
3/26/2024 10:53	55105	WERT_T1	0	1	1	0	0	0	-0.64	-0.66	0	0	0	0	0	0
3/26/2024 10:53	44301	BEAV_T2	0	9	9	0	0.3	0.3	-2.09	-2.15	2	2	0	1500	1500	0
3/26/2024 10:53	44302	BEAV_T2	0	3	3	0	0.53	0.53	0	0	0	0	0	0	0	0
3/26/2024 10:54	59101	WALK_T2	0	2	2	0	0.25	0.25	1.32	1.33	0	0	0	0	0	0
3/26/2024 10:54	59102	WALK_T2	24	36	12	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
3/26/2024 10:54	60101	COCA_T1	0	1	1	0	0.1	0.1	0.4	0.42	0	0	0	0	0	0
3/26/2024 10:55	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/26/2024 10:55	60803	BUCK_T1	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
3/26/2024 10:55	54505	ENOL_T2	1	2	1	1	0.85	-0.15	-1.27	-1.33	1	1	0	600	600	0
3/26/2024 10:55	54504	ENOL_T2	1	2	1	0.1	0.65	0.55	0	0	0	0	0	0	0	0
3/26/2024 10:56	60201	ATGL_T2	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
3/26/2024 10:57	60101	COCA_T1	0	1	1	0	0.1	0.1	0.4	0.42	0	0	0	0	0	0
3/26/2024 10:58	60803	BUCK_T1	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
3/26/2024 11:00	59001	MIFF_T1	6	6	0	0.53	0.57	0.04	0	0	0	0	0	0	0	0
3/26/2024 11:00	59001	MIFF_T1	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
3/26/2024 11:00	59003	MIFF_T1	3	3	0	0.33	0.2	-0.13	0.9	0.88	0	0	0	0	0	0
3/26/2024 11:00	40101	HUNT_T2	6	5	-1	0.27	0.2	-0.07	-0.27	-0.31	0	0	0	0	0	0
3/26/2024 11:01	26402	INOR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 11:01	13503	MCMI_T2	45	135	90	0.28	0.35	0.07	0.93	0.95	0	0	0	0	0	0
3/26/2024 11:01	26401	INOR_T1	0	0	0	0	0	0	1	0.87	0	0	0	0	0	0
3/26/2024 11:01	45702	LIND_T2	1	1	0	0.1	0.5	0.4	-0.43	-0.41	0	0	0	0	0	0
3/26/2024 11:01	40101	HUNT_T2	6	5	-1	0.27	0.2	-0.07	-0.27	-0.31	0	0	0	0	0	0
3/26/2024 11:02	64801	MONE_T2	96	148	52	0.38	0.39	0.01	-0.36	-0.37	0	0	0	0	0	0
3/26/2024 11:02	25402	LAHA_T2	0	0	0	0	0	0	-0.53	-0.4	0	0	0	0	0	0
3/26/2024 11:02	52501	PROG_T1	0	2	2	0	0.1	0.1	0.4	0.34	1	1	0	300	300	0
3/26/2024 11:02	64802	MONE_T2	60	74	14	0.45	0.29	-0.16	0.09	0.09	0	0	0	0	0	0
3/26/2024 11:03	64303	LINC_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/26/2024 11:03	64301	LINC_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
3/26/2024 11:03	64305	LINC_T1	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/26/2024 11:04	42001	MNVL_T2	0	2	2	0	0.15	0.15	-0.04	0.07	0	0	0	0	0	0
3/26/2024 11:04	42002	MNVL_T2	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
3/26/2024 11:05	44601	SALE_T2	0	0	0	0	0	0	0.4	0.38	2	2	0	1200	1200	0
3/26/2024 11:05	40101	HUNT_T2	6	5	-1	0.27	0.2	-0.07	-0.27	-0.31	0	0	0	0	0	0
3/26/2024 11:08	61101	BERK_T5	2	11	9	0.1	0.46	0.36	0	0	0	0	0	0	0	0
3/26/2024 11:08	67203	TEHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:08	67002	STHI_T2	400	423	23	0.31	0.33	0.02	0.66	0.64	0	0	0	0	0	0
3/26/2024 11:08	61102	BERK_T5	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:08	61103	BERK_T5	4	14	10	0.13	0.33	0.2	0.1	0.03	0	0	0	0	0	0
3/26/2024 11:08	46005	BERW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/26/2024 11:08	67201	TEHI_T1	0	0	0	0	0	0	0.05	0.91	1	1	0	600	600	0
3/26/2024 11:08	67001	STHI_T2	653	705	52	0.34	0.34	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/26/2024 11:08	46001	BERW_T1	0	0	0	0	0	0	2.2	2.12	0	0	0	0	0	0
3/26/2024 11:08	42701	AUGU_T1	1	2	1	1.3	0.9	-0.4	0	0	2	2	0	1800	1800	0
3/26/2024 11:09	61101	BERK_T5	2	11	9	0.1	0.46	0.36	0	0	0	0	0	0	0	0
3/26/2024 11:09	61102	BERK_T5	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:09	67203	TEHI_T1	0	1	1	0	0.1	0.1	2.57	2.33	2	2	0	1200	1200	0
3/26/2024 11:09	10805	OHHI_T2	6	7	1	1.78	1.72	-0.06	-0.76	-0.67	1	1	0	600	600	0
3/26/2024 11:09	61103	BERK_T5	4	14	10	0.13	0.33	0.2	0.05	0.05	0	0	0	0	0	0
3/26/2024 11:10	54504	ENOL_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
3/26/2024 11:10	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:10	57401	SPAN_T1	5	63	58	0.68	0.3	-0.38	0	0	0	0	0	0	0	0
3/26/2024 11:10	54502	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/26/2024 11:10	54505	ENOL_T2	1	2	1	1	0.9	-0.1	-1.33	-1.32	1	1	0	600	600	0
3/26/2024 11:10	57403	SPAN_T1	30	171	141	0.34	0.35	0.01	0.06	0.05	0	0	0	0	0	0
3/26/2024 11:11	54502	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/26/2024 11:11	52204	DEVO_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/26/2024 11:11	54505	ENOL_T2	1	2	1	1	0.9	-0.1	-1.33	-1.32	1	1	0	600	600	0
3/26/2024 11:11	54504	ENOL_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
3/26/2024 11:11	67001	STHI_T2	653	705	52	0.34	0.34	0	0	0	0	0	0	0	0	0
3/26/2024 11:11	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:11	67002	STHI_T2	400	423	23	0.31	0.33	0.02	0.64	0.65	0	0	0	0	0	0
3/26/2024 11:11	52202	DEVO_T2	1	1	0	0.8	0.4	-0.4	-0.77	-0.08	0	0	0	0	0	0
3/26/2024 11:12	50201	HARR_T3	2	2	0	4.4	4.6	0.2	0	0	0	0	0	0	0	0
3/26/2024 11:12	50105	HARR_T3	7	7	0	6.17	6.13	-0.04	0	0	0	0	0	0	0	0
3/26/2024 11:12	54505	ENOL_T2	1	2	1	1	0.9	-0.1	-2.67	-2.65	2	2	0	1200	1200	0
3/26/2024 11:12	54501	ENOL_T2	0	1	1	0	0.1	0.1	0.07	0.08	0	0	0	0	0	0
3/26/2024 11:12	61102	BERK_T5	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:12	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:12	61101	BERK_T5	2	11	9	0.1	0.46	0.36	0	0	0	0	0	0	0	0
3/26/2024 11:12	50102	HARR_T3	7	12	5	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
3/26/2024 11:12	54502	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/26/2024 11:12	50103	HARR_T3	2	3	1	1	0.83	-0.17	-1.04	-1	1	1	0	1200	1200	0
3/26/2024 11:12	61103	BERK_T5	4	14	10	0.13	0.33	0.2	0.03	0.03	0	0	0	0	0	0
3/26/2024 11:12	54504	ENOL_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
3/26/2024 11:13	42902	MIDD_T2	5	14	9	0.72	0.57	-0.15	-0.25	-0.18	0	0	0	0	0	0
3/26/2024 11:13	50102	HARR_T3	7	12	5	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
3/26/2024 11:13	50103	HARR_T3	2	3	1	1	0.83	-0.17	-1.04	-1	1	1	0	1200	1200	0
3/26/2024 11:13	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:13	41801	GOCI_T2	3	9	6	0.33	0.4	0.07	0	0	0	0	0	0	0	0
3/26/2024 11:13	50105	HARR_T3	7	7	0	6.17	6.13	-0.04	0	0	0	0	0	0	0	0
3/26/2024 11:13	42903	MIDD_T2	2	2	0	1.15	1.35	0.2	0	0	0	0	0	0	0	0
3/26/2024 11:13	50201	HARR_T3	2	2	0	4.4	4.6	0.2	0	0	0	0	0	0	0	0
3/26/2024 11:14	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:14	54505	ENOL_T2	1	2	1	1	0.9	-0.1	-1.33	-1.32	1	1	0	600	600	0
3/26/2024 11:14	54502	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/26/2024 11:14	54504	ENOL_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
3/26/2024 11:16	42001	MNVL_T2	0	2	2	0	0.15	0.15	0.07	0.03	0	0	0	0	0	0
3/26/2024 11:16	55001	NEWP_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/26/2024 11:16	25503	MADI_T1	0	2	2	0	0.1	0.1	-1.02	-0.98	0	0	0	0	0	0
3/26/2024 11:16	61102	BERK_T5	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
3/26/2024 11:16	55002	NEWP_T1	8	9	1	0.89	1.14	0.25	-0.2	-0.22	0	0	0	0	0	0
3/26/2024 11:16	61103	BERK_T5	3	30	27	0.13	0.34	0.21	0.03	0.03	0	0	0	0	0	0
3/26/2024 11:16	61101	BERK_T5	1	19	18	0.1	0.43	0.33	0	0	0	0	0	0	0	0
3/26/2024 11:16	42002	MNVL_T2	1	1	0	7.2	6.9	-0.3	0	0	0	0	0	0	0	0
3/26/2024 11:16	25502	MADI_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
3/26/2024 11:17	63401	HONY_T1	0	0	0	0	0	0	1.06	1.15	0	0	0	0	0	0
3/26/2024 11:17	63404	HONY_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/26/2024 11:18	63602	LETO_T1	1	1	0	0.7	0.7	0	-0.56	-0.53	0	0	0	0	0	0
3/26/2024 11:19	64303	LINC_T1	1	2	1	0.2	0.4	0.2	-0.22	-0.24	0	0	0	0	0	0
3/26/2024 11:19	64305	LINC_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/26/2024 11:23	45602	WOOL_T1	3	5	2	0.83	0.78	-0.05	0.5	0.52	0	0	0	0	0	0
3/26/2024 11:24	60201	ATGL_T2	0	0	0	0	0	0	0.55	0.51	0	0	0	0	0	0
3/26/2024 11:24	45602	WOOL_T1	3	5	2	0.83	0.78	-0.05	0.52	0.5	0	0	0	0	0	0
3/26/2024 11:26	62602	ENGL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:26	48901	FOSP_T2	0	0	0	0	0	0	0.09	-0.02	1	1	0	600	600	0
3/26/2024 11:26	62605	ENGL_T1	3	5	2	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/26/2024 11:26	62604	ENGL_T1	0	0	0	0	0	0	-0.33	-0.27	1	1	0	600	600	0
3/26/2024 11:26	62607	ENGL_T1	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
3/26/2024 11:26	45602	WOOL_T1	3	5	2	0.83	0.78	-0.05	0.52	0.5	0	0	0	0	0	0
3/26/2024 11:27	67401	WAKE_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:27	67402	WAKE_T2	0	2	2	0	0.25	0.25	0.39	0.26	1	1	0	600	600	0
3/26/2024 11:28	62602	ENGL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:28	48901	FOSP_T2	0	0	0	0	0	0	0.09	-0.02	1	1	0	600	600	0
3/26/2024 11:28	62605	ENGL_T1	3	5	2	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/26/2024 11:28	62607	ENGL_T1	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
3/26/2024 11:28	45602	WOOL_T1	3	5	2	0.83	0.78	-0.05	0.52	0.5	0	0	0	0	0	0
3/26/2024 11:28	62604	ENGL_T1	0	0	0	0	0	0	-0.66	-0.54	2	2	0	1200	1200	0
3/26/2024 11:29	45602	WOOL_T1	3	5	2	0.83	0.78	-0.05	0.52	0.5	0	0	0	0	0	0
3/26/2024 11:30	62605	ENGL_T1	4	5	1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
3/26/2024 11:30	62607	ENGL_T1	2	3	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/26/2024 11:30	62604	ENGL_T1	0	0	0	0	0	0	-0.33	-0.27	1	1	0	600	600	0
3/26/2024 11:30	62602	ENGL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:30	67402	WAKE_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/26/2024 11:30	67401	WAKE_T2	1	3	2	0.1	0.27	0.17	-0.81	-0.81	0	0	0	0	0	0
3/26/2024 11:32	67401	PENS_T1	50	38	-12	0.39	0.28	-0.11	0.83	0.93	0	0	0	0	0	0
3/26/2024 11:32	25503	MADI_T1	1	2	1	0.1	0.15	0.05	-0.98	-1.03	0	0	0	0	0	0
3/26/2024 11:32	47403	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/26/2024 11:32	45902	AUBU_T1	0	1	1	0	0.1	0.1	0.01	0.01	1	1	0	600	600	0
3/26/2024 11:32	25502	MADI_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/26/2024 11:32	47402	PENS_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/26/2024 11:34	13302	ORVI_T2	2	5	3	0.25	0.62	0.37	1.29	1.33	0	0	0	0	0	0
3/26/2024 11:34	40603	PIGR_T1	0	0	0	0	0	0	0.37	0.26	0	0	0	0	0	0
3/26/2024 11:34	45902	AUBU_T1	0	1	1	0	0.1	0.1	0.01	0.01	2	2	0	1200	1200	0
3/26/2024 11:34	40602	PIGR_T1	2	3	1	0.6	0.47	-0.13	0	0	0	0	0	0	0	0
3/26/2024 11:34	40601	PIGR_T1	88	166	78	0.22	0.32	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:35	45902	AUBU_T1	0	1	1	0	0.1	0.1	0.01	0.01	1	1	0	600	600	0
3/26/2024 11:35	41901	REED_T1	9	9	0	0.51	0.57	0.06	0	0	0	0	0	0	0	0
3/26/2024 11:35	58402	MORO_T1	0	0	0	0	0	0	-0.96	-0.97	3	3	0	2400	2400	0
3/26/2024 11:35	41902	REED_T1	1	1	0	0.4	0.4	0	1.08	1.15	0	0	0	0	0	0
3/26/2024 11:35	58401	MORO_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/26/2024 11:36	47401	PENS_T1	50	38	-12	0.39	0.28	-0.11	2.49	2.78	0	0	0	0	0	0
3/26/2024 11:36	45902	AUBU_T1	0	1	1	0	0.1	0.1	0.01	0.01	1	1	0	600	600	0
3/26/2024 11:36	47403	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/26/2024 11:36	47402	PENS_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/26/2024 11:36	58401	MORO_T1	1	1	0	0.1	0.1	0	-1.03	-1.06	1	1	0	600	600	0
3/26/2024 11:37	47402	PENS_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/26/2024 11:37	67001	STHI_T2	698	918	220	0.34	0.38	0.04	0	0	0	0	0	0	0	0
3/26/2024 11:37	47401	PENS_T1	50	38	-12	0.39	0.28	-0.11	0.83	0.93	0	0	0	0	0	0
3/26/2024 11:37	41902	REED_T1	1	1	0	0.4	0.4	0	2.15	2.3	0	0	0	0	0	0
3/26/2024 11:37	67002	STHI_T2	414	553	139	0.34	0.4	0.06	1.29	1.28	0	0	0	0	0	0
3/26/2024 11:37	47403	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/26/2024 11:37	41901	REED_T1	9	9	0	0.51	0.57	0.06	0	0	0	0	0	0	0	0
3/26/2024 11:38	67001	STHI_T2	698	918	220	0.34	0.38	0.04	0	0	0	0	0	0	0	0
3/26/2024 11:38	48303	ORWI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/26/2024 11:38	48302	ORWI_T2	2	2	0	0.95	1.45	0.5	0.09	0.02	0	0	0	0	0	0
3/26/2024 11:38	67002	STHI_T2	414	553	139	0.34	0.4	0.06	0.65	0.64	0	0	0	0	0	0
3/26/2024 11:38	58401	MORO_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/26/2024 11:38	58402	MORO_T1	0	0	0	0	0	0	-0.97	-0.96	3	3	0	2400	2400	0
3/26/2024 11:39	29402	BELT_T1	1	3	2	7.2	2.93	-4.27	0	0	0	0	0	0	0	0
3/26/2024 11:39	45902	AUBU_T1	0	1	1	0	0.1	0.1	0.01	0.01	1	1	0	600	600	0
3/26/2024 11:39	60701	BREC_T1	4	3	-1	0.58	0.77	0.19	0.23	-0.05	2	1	-1	1200	600	-600
3/26/2024 11:39	67002	STHI_T2	414	553	139	0.34	0.4	0.06	0.64	0.62	0	0	0	0	0	0
3/26/2024 11:39	67001	STHI_T2	698	918	220	0.34	0.38	0.04	0	0	0	0	0	0	0	0
3/26/2024 11:39	29401	BELT_T1	1	43	42	0.5	0.22	-0.28	0	0	0	0	0	0	0	0
3/26/2024 11:40	67002	STHI_T2	414	553	139	0.34	0.4	0.06	1.28	1.23	0	0	0	0	0	0
3/26/2024 11:40	44301	BEAV_T2	0	3	3	0	0.3	0.3	0.07	0.08	2	2	0	1500	1500	0
3/26/2024 11:40	67001	STHI_T2	698	918	220	0.34	0.38	0.04	0	0	0	0	0	0	0	0
3/26/2024 11:40	44302	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:40	29402	BELT_T1	1	3	2	7.2	2.93	-4.27	0	0	0	0	0	0	0	0
3/26/2024 11:40	60701	BREC_T1	4	3	-1	0.58	0.77	0.19	0.23	-0.05	1	1	0	600	600	0
3/26/2024 11:40	29401	BELT_T1	1	43	42	0.5	0.22	-0.28	0	0	1	1	0	900	900	0
3/26/2024 11:41	47401	PENS_T1	50	38	-12	0.39	0.28	-0.11	0.93	0.79	0	0	0	0	0	0
3/26/2024 11:41	44302	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:41	47402	PENS_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/26/2024 11:41	29402	BELT_T1	1	3	2	7.2	2.93	-4.27	0	0	0	0	0	0	0	0
3/26/2024 11:41	67001	STHI_T2	698	918	220	0.34	0.38	0.04	0.2	0.17	0	0	0	0	0	0
3/26/2024 11:41	44301	BEAV_T2	0	3	3	0	0.3	0.3	0.07	0.08	2	2	0	1500	1500	0
3/26/2024 11:41	29401	BELT_T1	1	43	42	0.5	0.22	-0.28	0	0	1	1	0	900	900	0
3/26/2024 11:41	67002	STHI_T2	414	553	139	0.34	0.4	0.06	1.92	1.85	0	0	0	0	0	0
3/26/2024 11:41	47403	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/26/2024 11:42	29402	BELT_T1	1	3	2	7.2	2.93	-4.27	0	0	0	0	0	0	0	0
3/26/2024 11:42	62604	ENGL_T1	0	0	0	0	0	0	-0.27	-0.28	1	1	0	600	600	0
3/26/2024 11:42	29401	BELT_T1	1	43	42	0.5	0.22	-0.28	0	0	2	2	0	1800	1800	0
3/26/2024 11:42	60701	BREC_T1	4	3	-1	0.58	0.77	0.19	0.23	-0.05	1	1	0	600	600	0
3/26/2024 11:42	62605	ENGL_T1	4	5	1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
3/26/2024 11:42	62602	ENGL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:42	62607	ENGL_T1	2	3	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/26/2024 11:43	62602	ENGL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:43	62604	ENGL_T1	0	0	0	0	0	0	-0.27	-0.28	1	1	0	600	600	0
3/26/2024 11:43	62607	ENGL_T1	2	3	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/26/2024 11:43	62605	ENGL_T1	4	5	1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
3/26/2024 11:43	29401	BELT_T1	1	43	42	0.5	0.22	-0.28	0	0	1	1	0	900	900	0
3/26/2024 11:43	29402	BELT_T1	1	3	2	7.2	2.93	-4.27	0	0	0	0	0	0	0	0
3/26/2024 11:44	40101	HUNT_T2	3	0	-3	0.2	0	-0.2	-0.83	-0.86	0	0	0	0	0	0
3/26/2024 11:44	52202	DEVO_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
3/26/2024 11:44	29401	BELT_T1	1	43	42	0.5	0.22	-0.28	0	0	3	3	0	2700	2700	0
3/26/2024 11:44	52204	DEVO_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/26/2024 11:44	29402	BELT_T1	1	3	2	7.2	2.93	-4.27	0	0	0	0	0	0	0	0
3/26/2024 11:45	62605	ENGL_T1	5	6	1	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
3/26/2024 11:45	64305	LINC_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
3/26/2024 11:45	64303	LINC_T1	2	1	-1	0.4	0.2	-0.2	-0.26	-0.24	0	0	0	0	0	0
3/26/2024 11:45	62607	ENGL_T1	2	3	1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
3/26/2024 11:45	62602	ENGL_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/26/2024 11:45	40101	HUNT_T2	0	1	1	0	0.1	0.1	-0.41	-0.43	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/26/2024 11:45	62604	ENGL_T1	0	0	0	0	0	0	-0.27	-0.28	1	1	0	600	600	0
3/26/2024 11:46	52403	GRPA_T2	6	11	5	0.15	0.37	0.22	0	0	0	0	0	0	0	0
3/26/2024 11:46	52401	GRPA_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
3/26/2024 11:46	40101	HUNT_T2	0	1	1	0	0.1	0.1	-0.41	-0.43	0	0	0	0	0	0
3/26/2024 11:46	65003	NEFF_T2	7	63	56	0.54	0.22	-0.32	0	0	0	0	0	0	0	0
3/26/2024 11:46	29402	BELT_T1	2	3	1	4	3.13	-0.87	0	0	0	0	0	0	0	0
3/26/2024 11:46	65005	NEFF_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:46	65004	NEFF_T2	7	17	10	0.49	0.38	-0.11	0	0	0	0	0	0	0	0
3/26/2024 11:46	29401	BELT_T1	20	50	30	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
3/26/2024 11:46	65002	NEFF_T2	4	8	4	0.13	0.23	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:46	52402	GRPA_T2	8	7	-1	1.09	1.31	0.22	-0.98	-1.02	0	0	0	0	0	0
3/26/2024 11:46	65001	NEFF_T2	19	134	115	0.14	0.14	0	-0.54	-0.39	1	1	0	1200	1200	0
3/26/2024 11:47	52401	GRPA_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
3/26/2024 11:47	41901	REED_T1	9	9	0	0.51	0.68	0.17	0	0	0	0	0	0	0	0
3/26/2024 11:47	40101	HUNT_T2	0	1	1	0	0.1	0.1	-1.24	-1.29	0	0	0	0	0	0
3/26/2024 11:47	41902	REED_T1	0	1	1	0	0.4	0.4	1.15	1.07	0	0	0	0	0	0
3/26/2024 11:47	62602	ENGL_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/26/2024 11:47	52402	GRPA_T2	8	7	-1	1.09	1.31	0.22	-0.98	-1.02	0	0	0	0	0	0
3/26/2024 11:47	52403	GRPA_T2	6	11	5	0.15	0.37	0.22	0	0	0	0	0	0	0	0
3/26/2024 11:47	62607	ENGL_T1	2	3	1	0.35	0.37	0.02	-1.12	-1.14	1	1	0	300	300	0
3/26/2024 11:47	17002	RIRO_T2	6	27	21	0.62	0.27	-0.35	0.62	0.56	0	0	0	0	0	0
3/26/2024 11:47	62605	ENGL_T1	5	6	1	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
3/26/2024 11:48	20403	ASHF_T2	3	5	2	0.7	0.52	-0.18	-0.89	-0.89	0	0	0	0	0	0
3/26/2024 11:48	20401	ASHF_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/26/2024 11:48	58401	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/26/2024 11:48	13302	ORVI_T2	5	10	5	0.58	0.36	-0.22	1.33	1.31	0	0	0	0	0	0
3/26/2024 11:48	58402	MORO_T1	0	0	0	0	0	0	-0.97	-0.96	3	3	0	2400	2400	0
3/26/2024 11:48	40101	HUNT_T2	0	1	1	0	0.1	0.1	-0.41	-0.43	0	0	0	0	0	0
3/26/2024 11:49	67201	TEHI_T1	40	5	-35	0.29	0.76	0.47	0.48	0.3	1	1	0	600	600	0
3/26/2024 11:49	62605	ENGL_T1	5	6	1	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
3/26/2024 11:49	62607	ENGL_T1	2	3	1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
3/26/2024 11:49	62602	ENGL_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/26/2024 11:49	20401	ASHF_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/26/2024 11:49	62604	ENGL_T1	0	0	0	0	0	0	-0.27	-0.28	1	1	0	600	600	0
3/26/2024 11:49	20403	ASHF_T2	3	5	2	0.7	0.52	-0.18	-0.89	-0.89	0	0	0	0	0	0
3/26/2024 11:50	40603	PIGR_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
3/26/2024 11:50	64303	LINC_T1	2	1	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/26/2024 11:50	64301	LINC_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
3/26/2024 11:50	64305	LINC_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
3/26/2024 11:50	13302	ORVI_T2	5	10	5	0.58	0.36	-0.22	2.65	2.61	0	0	0	0	0	0
3/26/2024 11:50	40602	PIGR_T1	2	3	1	0.15	0.47	0.32	0	0	0	0	0	0	0	0
3/26/2024 11:50	40601	PIGR_T1	139	179	40	0.24	0.41	0.17	0	0	0	0	0	0	0	0
3/26/2024 11:51	58402	MORO_T1	0	0	0	0	0	0	-0.97	-0.96	3	3	0	2400	2400	0
3/26/2024 11:51	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-1.06	-1.04	1	1	0	600	600	0
3/26/2024 11:51	41901	REED_T1	9	9	0	0.51	0.68	0.17	0	0	0	0	0	0	0	0
3/26/2024 11:51	13302	ORVI_T2	5	10	5	0.58	0.36	-0.22	1.33	1.31	0	0	0	0	0	0
3/26/2024 11:51	67203	TEHI_T1	0	0	0	0	0	0	1.88	1.98	2	2	0	1200	1200	0
3/26/2024 11:51	67201	TEHI_T1	40	5	-35	0.29	0.76	0.47	0	0	0	0	0	0	0	0
3/26/2024 11:51	41902	REED_T1	0	1	1	0	0.4	0.4	1.15	1.07	0	0	0	0	0	0
3/26/2024 11:51	20401	ASHF_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/26/2024 11:51	20403	ASHF_T2	3	5	2	0.7	0.52	-0.18	-0.89	-0.89	0	0	0	0	0	0
3/26/2024 11:52	65002	NEFF_T2	4	8	4	0.13	0.23	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:52	65004	NEFF_T2	7	17	10	0.49	0.38	-0.11	-0.53	-0.55	0	0	0	0	0	0
3/26/2024 11:52	65003	NEFF_T2	7	63	56	0.54	0.22	-0.32	0	0	0	0	0	0	0	0
3/26/2024 11:52	47401	PENS_T1	6	41	35	0.47	0.27	-0.2	2.78	2.37	0	0	0	0	0	0
3/26/2024 11:52	65001	NEFF_T2	19	134	115	0.14	0.14	0	0	0	0	0	0	0	0	0
3/26/2024 11:52	47402	PENS_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/26/2024 11:52	20401	ASHF_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/26/2024 11:52	20403	ASHF_T2	3	5	2	0.7	0.52	-0.18	-0.89	-0.89	0	0	0	0	0	0
3/26/2024 11:52	65005	NEFF_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/26/2024 11:53	60201	ATGL_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
3/26/2024 11:53	47402	PENS_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/26/2024 11:53	67204	TEHI_T2	3	3	0	0.47	0.5	0.03	-0.11	-0.13	0	0	0	0	0	0
3/26/2024 11:53	41902	REED_T1	0	1	1	0	0.4	0.4	1.07	1.05	0	0	0	0	0	0
3/26/2024 11:53	47401	PENS_T1	6	41	35	0.47	0.27	-0.2	2.78	2.37	0	0	0	0	0	0
3/26/2024 11:53	41901	REED_T1	9	9	0	0.51	0.68	0.17	0	0	0	0	0	0	0	0
3/26/2024 11:54	10801	CHHI_T1	0	2	2	0	0.15	0.15	-0.78	-0.86	1	1	0	900	900	0
3/26/2024 11:54	60201	ATGL_T2	0	0	0	0	0	0	0	0.44	0	0	0	0	0	0
3/26/2024 11:55	67204	TEHI_T2	3	3	0	0.47	0.5	0.03	-0.13	-0.12	0	0	0	0	0	0
3/26/2024 11:56	60201	ATGL_T2	0	0	0	0	0	0	0.5	0.44	0	0	0	0	0	0
3/26/2024 11:56	10805	CHHI_T2	7	8	1	2.21	2.2	-0.01	-0.72	-0.86	1	1	0	600	600	0
3/26/2024 11:58	48901	FOSP_T2	0	0	0	0	0	0	-0.04	-0.06	1	1	0	600	600	0
3/26/2024 11:58	10801	CHHI_T1	0	2	2	0	0.15	0.15	-0.78	-0.86	1	1	0	900	900	0
3/26/2024 11:59	62607	ENGL_T1	2	3	1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
3/26/2024 11:59	62602	ENGL_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/26/2024 11:59	62605	ENGL_T1	5	6	1	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
3/26/2024 11:59	63404	HONY_T1	3	65	62	0.2	0.24	0.04	0	0	0	0	0	0	0	0
3/26/2024 11:59	63401	HONY_T1	0	0	0	0	0	0	1.12	1.04	0	0	0	0	0	0
3/26/2024 11:59	62604	ENGL_T1	0	0	0	0	0	0	-0.55	-0.23	2	2	0	1200	1200	0
3/26/2024 12:00	42903	MIDD_T2	0	3	3	0	1.3	1.3	0	0	0	0	0	0	0	0
3/26/2024 12:00	48901	FOSP_T2	0	0	0	0	0	0	-0.04	-0.06	1	1	0	600	600	0
3/26/2024 12:00	64303	LINC_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/26/2024 12:00	62602	ENGL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/26/2024 12:00	42902	MIDD_T2	3	18	15	0.53	0.47	-0.06	-0.24	-0.2	0	0	0	0	0	0
3/26/2024 12:00	62607	ENGL_T1	3	3	0	0.23	0.37	0.14	0	0	0	0	0	0	0	0
3/26/2024 12:00	64305	LINC_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
3/26/2024 12:00	62605	ENGL_T1	5	6	1	0.26	0.27	0.01	0	0	0	0	0	0	0	0
3/26/2024 12:00	64301	LINC_T1	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
3/26/2024 12:00	42901	MIDD_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
3/26/2024 12:00	62604	ENGL_T1	0	0	0	0	0	0	-0.28	-0.11	1	1	0	600	600	0
3/26/2024 12:01	62602	ENGL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/26/2024 12:01	62605	ENGL_T1	5	6	1	0.26	0.27	0.01	0	0	0	0	0	0	0	0
3/26/2024 12:01	62604	ENGL_T1	0	0	0	0	0	0	-0.28	-0.11	1	1	0	600	600	0
3/26/2024 12:01	62607	ENGL_T1	3	3	0	0.23	0.37	0.14	0	0	0	0	0	0	0	0
3/26/2024 12:03	20403	ASHF_T2	4	5	1	0.63	0.52	-0.11	-1.78	-1.87	0	0	0	0	0	0
3/26/2024 12:03	20401	ASHF_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/26/2024 12:05	20403	ASHF_T2	4	5	1	0.63	0.52	-0.11	-0.89	-0.94	0	0	0	0	0	0
3/26/2024 12:05	20401	ASHF_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/26/2024 12:05	58402	MORO_T1	0	0	0	0	0	0	-0.96	-0.28	3	2	-1	2400	1500	-900
3/26/2024 12:06	20401	ASHF_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/26/2024 12:06	20403	ASHF_T2	4	5	1	0.63	0.52	-0.11	-0.89	-0.94	0	0	0	0	0	0
3/26/2024 12:06	59201	THOM_T1	21	51	30	0.41	0.51	0.1	0	0	0	0	0	0	0	0
3/26/2024 12:06	59202	THOM_T1	334	521	187	0.49	0.7	0.21	0	0	0	0	0	0	0	0
3/26/2024 12:07	58402	MORO_T1	0	0	0	0	0	0	-0.96	-0.28	3	2	-1	2400	1500	-900
3/26/2024 12:07	58401	MORO_T1	0	0	0	0	0	0	-1.04	-1.07	1	1	0	600	600	0
3/26/2024 12:11	61304	EARL_T1	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/26/2024 12:11	46005	BERW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/26/2024 12:11	52006	LING_T2	3	5	2	1.07	0.68	-0.39	0	0	0	0	0	0	0	0
3/26/2024 12:11	52002	LING_T2	1	3	2	1.3	0.6	-0.7	0	0	0	0	0	0	0	0
3/26/2024 12:11	46001	BERW_T1	0	0	0	0	0	0	1.73	1.67	0	0	0	0	0	0
3/26/2024 12:11	61303	EARL_T1	0	0	0	0	0	0	0.66	0.62	0	0	0	0	0	0
3/26/2024 12:11	52004	LING_T2	4	14	10	0.38	0.74	0.36	0.23	0.18	0	0	0	0	0	0
3/26/2024 12:11	61302	EARL_T1	1	3	2	1.1	0.57	-0.53	0	0	0	0	0	0	0	0
3/26/2024 12:12	61304	EARL_T1	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/26/2024 12:12	61302	EARL_T1	1	3	2	1.1	0.57	-0.53	0	0	0	0	0	0	0	0
3/26/2024 12:12	61303	EARL_T1	0	0	0	0	0	0	0.66	0.62	0	0	0	0	0	0
3/26/2024 12:13	61302	EARL_T1	1	3	2	1.1	0.57	-0.53	0	0	0	0	0	0	0	0
3/26/2024 12:13	61303	EARL_T1	0	0	0	0	0	0	0.66	0.62	0	0	0	0	0	0
3/26/2024 12:13	61304	EARL_T1	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/26/2024 12:15	50102	HARR_T3	9	2	-7	0.19	0.1	-0.09	0	0	0	0	0	0	0	0
3/26/2024 12:15	50201	HARR_T3	2	2	0	4.3	8.7	4.4	0	0	0	0	0	0	0	0
3/26/2024 12:15	50202	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/26/2024 12:15	50103	HARR_T3	2	3	1	1.2	0.67	-0.53	-0.99	-1.07	1	1	0	1200	1200	0
3/26/2024 12:15	50105	HARR_T3	7	7	0	6.1	6.31	0.21	0	0	0	0	0	0	0	0
3/26/2024 12:16	50103	HARR_T3	2	3	1	1.2	0.67	-0.53	-0.99	-1.07	1	1	0	1200	1200	0
3/26/2024 12:16	50201	HARR_T3	2	2	0	4.3	8.7	4.4	0	0	0	0	0	0	0	0
3/26/2024 12:16	50202	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/26/2024 12:16	64305	LINC_T1	2	5	3	0.1	0.22	0.12	0	0	0	0	0	0	0	0
3/26/2024 12:16	42903	MIDD_T2	2	3	1	1.7	1.3	-0.4	0	0	0	0	0	0	0	0
3/26/2024 12:16	64303	LINC_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/26/2024 12:16	50102	HARR_T3	9	2	-7	0.19	0.1	-0.09	0	0	0	0	0	0	0	0
3/26/2024 12:16	42902	MIDD_T2	11	14	3	0.62	0.44	-0.18	-0.2	-0.28	0	0	0	0	0	0
3/26/2024 12:16	59402	RFLD_T2	1	1	0	0.2	0.2	0	-0.6	-0.66	1	1	0	450	450	0
3/26/2024 12:16	64301	LINC_T1	0	0	0	0	0	0	0.62	0.56	0	0	0	0	0	0
3/26/2024 12:16	50105	HARR_T3	7	7	0	6.1	6.31	0.21	0	0	0	0	0	0	0	0
3/26/2024 12:16	42901	MIDD_T2	2	3	1	0.2	0.37	0.17	0	0	0	0	0	0	0	0
3/26/2024 12:18	47402	PENS_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/26/2024 12:18	47401	PENS_T1	23	15	-8	0.29	0.41	0.12	2.49	2.69	0	0	0	0	0	0
3/26/2024 12:18	47403	PENS_T1	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
3/26/2024 12:19	47402	PENS_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/26/2024 12:19	47401	PENS_T1	23	15	-8	0.29	0.41	0.12	1.66	1.8	0	0	0	0	0	0
3/26/2024 12:19	47403	PENS_T1	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
3/26/2024 12:27	47403	PENS_T1	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
3/26/2024 12:27	47402	PENS_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/26/2024 12:27	47401	PENS_T1	23	15	-8	0.29	0.41	0.12	0.9	0.7	0	0	0	0	0	0
3/26/2024 12:27	51604	DUKE_T2	3	2	-1	0.4	0.45	0.05	-0.37	-0.37	0	0	0	0	0	0
3/26/2024 12:29	59402	RFLD_T2	1	1	0	0.2	0.2	0	-0.66	-0.43	1	1	0	450	450	0
3/26/2024 12:30	59402	RFLD_T2	1	0	-1	0.2	0	-0.2	-0.66	-0.43	1	1	0	450	450	0
3/26/2024 12:31	59301	MCAL_T1	78	45	-33	0.57	0.32	-0.25	-1.01	-1	0	0	0	0	0	0
3/26/2024 12:31	59302	MCAL_T1	3	2	-1	0.47	0.25	-0.22	0	0	0	0	0	0	0	0
3/26/2024 12:32	59402	RFLD_T2	1	0	-1	0.2	0	-0.2	-0.66	-0.43	1	1	0	450	450	0
3/26/2024 12:33	58402	MORO_T1	0	2	2	0	0.6	0.6	-0.16	-0.18	2	2	0	1500	1500	0
3/26/2024 12:33	65004	NEFF_T2	20	8	-12	0.36	0.4	0.04	0	0	0	0	0	0	0	0
3/26/2024 12:33	65001	NEFF_T2	105	42	-63	0.16	0.15	-0.01	-0.43	-0.47	1	1	0	1200	1200	0
3/26/2024 12:33	65002	NEFF_T2	17	6	-11	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
3/26/2024 12:33	65005	NEFF_T2	3	2	-1	0.57	0.85	0.28	0	0	0	0	0	0	0	0
3/26/2024 12:33	65003	NEFF_T2	94	70	-24	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
3/26/2024 12:35	58402	MORO_T1	0	2	2	0	0.6	0.6	-0.16	-0.18	2	2	0	1500	1500	0
3/26/2024 12:35	20403	ASHF_T2	5	7	2	0.52	0.6	0.08	-0.97	0	0	0	0	0	0	0
3/26/2024 12:35	20402	ASHF_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
3/26/2024 12:35	14801	TREI_T2	13	44	31	0.39	0.23	-0.16	0.31	0.31	0	0	0	0	0	0
3/26/2024 12:35	14802	TREI_T2	10	8	-2	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
3/26/2024 12:37	20402	ASHF_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/26/2024 12:37	20403	ASHF_T2	5	7	2	0.52	0.6	0.08	-0.97	0	0	0	0	0	0	0
3/26/2024 12:38	20402	ASHF_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
3/26/2024 12:38	20403	ASHF_T2	5	7	2	0.52	0.6	0.08	0	-0.07	0	0	0	0	0	0
3/26/2024 12:39	20403	ASHF_T2	5	7	2	0.52	0.6	0.08	0	-0.07	0	0	0	0	0	0
3/26/2024 12:39	44302	BEAV_T2	94	1	-93	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
3/26/2024 12:39	20402	ASHF_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
3/26/2024 12:39	44301	BEAV_T2	6	1	-5	0.28	0.1	-0.18	-0.16	-0.09	2	2	0	1500	1500	0
3/26/2024 12:41	60201	ATGL_T2	0	0	0	0	0	0	0.38	0.42	0	0	0	0	0	0
3/26/2024 12:42	44302	BEAV_T2	94	1	-93	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
3/26/2024 12:42	60201	ATGL_T2	0	0	0	0	0	0	0.38	0.42	0	0	0	0	0	0
3/26/2024 12:42	44301	BEAV_T2	6	1	-5	0.28	0.1	-0.18	-0.16	-0.09	2	2	0	1500	1500	0
3/26/2024 12:43	44301	BEAV_T2	6	1	-5	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
3/26/2024 12:43	60201	ATGL_T2	0	0	0	0	0	0	0.38	0.42	0	0	0	0	0	0
3/26/2024 12:43	44302	BEAV_T2	94	1	-93	0.35	0.1	-0.25	0.23	0.22	0	0	0	0	0	0
3/26/2024 12:49	41902	REED_T1	1	5	4	0.5	0.46	-0.04	1.05	1.05	0	0	0	0	0	0
3/26/2024 12:49	41901	REED_T1	9	10	1	0.52	0.59	0.07	0	0	0	0	0	0	0	0
3/26/2024 12:50	41901	REED_T1	9	10	1	0.52	0.59	0.07	0	0	0	0	0	0	0	0
3/26/2024 12:50	41902	REED_T1	1	5	4	0.5	0.46	-0.04	1.05	1.05	0	0	0	0	0	0
3/26/2024 12:51	41902	REED_T1	1	5	4	0.5	0.46	-0.04	1.05	1.05	0	0	0	0	0	0
3/26/2024 12:51	41901	REED_T1	9	10	1	0.52	0.59	0.07	0	0	0	0	0	0	0	0
3/26/2024 12:53	59302	MCAL_T1	1	2	1	0.2	0.3	0.1	-0.31	-0.31	1	1	0	600	600	0
3/26/2024 12:53	59301	MCAL_T1	37	40	3	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
3/26/2024 12:55	61303	EARL_T1	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
3/26/2024 12:55	61302	EARL_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
3/26/2024 12:55	61304	EARL_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
3/26/2024 12:57	65002	NEFF_T2	6	3	-3	0.2	0.2	0	0	0	0	0	0	0	0	0
3/26/2024 12:57	65003	NEFF_T2	43	71	28	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
3/26/2024 12:57	65001	NEFF_T2	35	34	-1	0.16	0.15	-0.01	-0.45	-0.46	1	1	0	1200	1200	0
3/26/2024 12:57	65004	NEFF_T2	8	8	0	0.35	0.38	0.03	0	0	0	0	0	0	0	0
3/26/2024 12:57	65005	NEFF_T2	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
3/26/2024 12:58	61303	EARL_T1	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
3/26/2024 12:58	61304	EARL_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
3/26/2024 12:58	61302	EARL_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
3/26/2024 13:00	50506	MECH_T1	2	6	4	0.6	0.52	-0.08	-0.04	-0.01	0	0	0	0	0	0
3/26/2024 13:00	61302	EARL_T1	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
3/26/2024 13:00	61304	EARL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/26/2024 13:00	61303	EARL_T1	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
3/26/2024 13:00	50501	MECH_T1	5	5	0	1.16	1.18	0.02	0	0	0	0	0	0	0	0
3/26/2024 13:00	50502	MECH_T1	1	2	1	2.1	1.15	-0.95	0	0	0	0	0	0	0	0
3/26/2024 13:00	50505	MECH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/26/2024 13:00	50503	MECH_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/26/2024 13:00	50504	MECH_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/26/2024 13:03	41902	REED_T1	2	5	3	0.4	0.44	0.04	1.05	1.03	0	0	0	0	0	0
3/26/2024 13:03	50504	MECH_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/26/2024 13:03	50505	MECH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/26/2024 13:03	45902	AUBU_T1	4	5	1	0.43	0.7	0.27	0.01	0.01	1	1	0	600	600	0
3/26/2024 13:03	41901	REED_T1	10	9	-1	0.5	0.63	0.13	0	0	0	0	0	0	0	0
3/26/2024 13:03	50506	MECH_T1	2	6	4	0.6	0.52	-0.08	-0.12	-0.02	0	0	0	0	0	0
3/26/2024 13:03	50501	MECH_T1	5	5	0	1.16	1.18	0.02	0	0	0	0	0	0	0	0
3/26/2024 13:03	50503	MECH_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/26/2024 13:03	50502	MECH_T1	1	2	1	2.1	1.15	-0.95	0	0	0	0	0	0	0	0
3/26/2024 13:04	41901	REED_T1	10	9	-1	0.5	0.63	0.13	0	0	0	0	0	0	0	0
3/26/2024 13:04	41902	REED_T1	2	5	3	0.4	0.44	0.04	1.05	1.03	0	0	0	0	0	0
3/26/2024 13:05	42601	TUSC_T1	12	18	6	0.67	0.2	-0.47	0.12	0.2	2	2	0	1800	1800	0
3/26/2024 13:05	57101	SPHI_T2	6	7	1	0.77	0.84	0.07	0	0	0	0	0	0	0	0
3/26/2024 13:05	57104	SPHI_T2	3	10	7	0.77	0.71	-0.06	0	0	0	0	0	0	0	0
3/26/2024 13:05	41901	REED_T1	10	9	-1	0.5	0.63	0.13	0	0	0	0	0	0	0	0
3/26/2024 13:05	58402	MORO_T1	2	0	-2	0.6	0	-0.6	-0.19	-0.19	2	2	0	1500	1500	0
3/26/2024 13:05	57106	SPHI_T2	4	7	3	1.4	0.91	-0.49	0	0	0	0	0	0	0	0
3/26/2024 13:05	41902	REED_T1	2	5	3	0.4	0.44	0.04	1.05	1.03	0	0	0	0	0	0
3/26/2024 13:05	57103	SPHI_T2	1	2	1	0.1	0.2	0.1	-0.31	0.31	0	0	0	0	0	0
3/26/2024 13:06	42601	TUSC_T1	12	18	6	0.67	0.2	-0.47	0.12	0.2	2	2	0	1800	1800	0
3/26/2024 13:07	58402	MORO_T1	2	0	-2	0.6	0	-0.6	-0.19	-0.19	2	2	0	1500	1500	0
3/26/2024 13:08	49804	UNIV_T1	1	14	13	0.2	0.21	0.01	0	0	0	0	0	0	0	0
3/26/2024 13:08	49803	UNIV_T1	0	1	1	0	0.4	0.4	-1.16	-1.16	0	0	0	0	0	0
3/26/2024 13:08	45902	AUBU_T1	4	5	1	0.43	0.7	0.27	0.01	0.01	1	1	0	600	600	0
3/26/2024 13:12	54502	ENOL_T2	3	20	17	0.4	0.19	-0.21	0	0	0	0	0	0	0	0
3/26/2024 13:12	54505	ENOL_T2	3	7	4	0.8	0.67	-0.13	-1.38	-1.38	1	1	0	600	600	0
3/26/2024 13:12	54504	ENOL_T2	1	2	1	0.8	1	0.2	-1.02	-1.07	1	1	0	600	600	0
3/26/2024 13:12	54501	ENOL_T2	3	9	6	0.17	0.58	0.41	0	0	0	0	0	0	0	0
3/26/2024 13:12	54503	ENOL_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
3/26/2024 13:13	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 13:13	62607	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/26/2024 13:13	62605	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 13:13	62604	ENGL_T1	0	0	0	0	0	0	-0.65	-0.65	2	2	0	1200	1200	0
3/26/2024 13:14	67002	STHI_T2	118	172	54	0.23	0.25	0.02	3.01	3.05	0	0	0	0	0	0
3/26/2024 13:14	45402	WBLO_T2	2	6	4	0.1	0.25	0.15	-1.72	-1.69	0	0	0	0	0	0
3/26/2024 13:14	67103	SPRI_T1	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
3/26/2024 13:14	42001	MNVL_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
3/26/2024 13:14	67201	TEHI_T1	1	2	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/26/2024 13:14	66501	SMAN_T2	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
3/26/2024 13:14	67603	WARW_T1	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
3/26/2024 13:14	44601	SALE_T2	0	1	1	0	0	0	1.59	-0.04	4	4	0	1800	1800	0
3/26/2024 13:14	67605	WARW_T1	48	46	-2	0.68	0.67	-0.01	-1.96	-2.15	0	0	0	0	0	0
3/26/2024 13:14	42701	AUGU_T1	1	2	1	1.4	0.7	-0.7	0	0	6	6	0	5400	5400	0
3/26/2024 13:14	63404	HONY_T1	5	2	-3	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
3/26/2024 13:14	64802	MONE_T2	147	166	19	0.28	0.32	0.04	0.45	0.47	0	0	0	0	0	0
3/26/2024 13:14	67001	STHI_T2	342	376	34	0.2	0.22	0.02	0	0	0	0	0	0	0	0
3/26/2024 13:14	46201	DANV_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/26/2024 13:14	46004	BERW_T2	0	0	0	0	0	0	-0.24	-0.16	0	0	0	0	0	0
3/26/2024 13:14	46001	BERW_T1	0	0	0	0	0	0	1.03	0.91	0	0	0	0	0	0
3/26/2024 13:14	60803	BUCK_T1	0	0	0	0	0	0	-0.56	-0.55	1	1	0	600	600	0
3/26/2024 13:14	67204	TEHI_T2	1	2	1	0.6	0.4	-0.2	-0.15	-0.17	0	0	0	0	0	0
3/26/2024 13:14	60101	COCA_T1	3	2	-1	0.57	0.5	-0.07	0.23	0.21	0	0	0	0	0	0
3/26/2024 13:14	60801	BUCK_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/26/2024 13:14	67203	TEHI_T1	0	0	0	0	0	0	2.37	2.44	2	2	0	1200	1200	0
3/26/2024 13:14	63401	HONY_T1	0	0	0	0	0	0	0.82	0.73	0	0	0	0	0	0
3/26/2024 13:14	43202	MVIL_T2	85	95	10	0.69	0.62	-0.07	-1.82	-1.85	0	0	0	0	0	0
3/26/2024 13:14	42002	MNVL_T2	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
3/26/2024 13:14	66504	SMAN_T2	1	3	2	0.4	0.57	0.17	-1.01	-1.16	0	0	0	0	0	0
3/26/2024 13:14	66502	SMAN_T2	2	3	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
3/26/2024 13:14	64801	MONE_T2	250	282	32	0.39	0.48	0.09	-0.42	-0.39	0	0	0	0	0	0
3/26/2024 13:14	43201	MVIL_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
3/26/2024 13:14	45501	DERR_T2	0	0	0	0	0	0	1.49	1.78	4	4	0	3600	3600	0
3/26/2024 13:14	66505	SMAN_T2	4	4	0	0.58	0.65	0.07	0	0	0	0	0	0	0	0
3/26/2024 13:14	67401	WAKE_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/26/2024 13:14	46203	DANV_T2	265	304	39	1.01	1.12	0.11	-1.12	-1.15	0	0	0	0	0	0
3/26/2024 13:14	67402	WAKE_T2	0	0	0	0	0	0	2.06	2.12	0	0	0	0	0	0
3/26/2024 13:15	46005	BERW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/26/2024 13:15	62607	ENGL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/26/2024 13:15	42002	MNVL_T2	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
3/26/2024 13:15	42701	AUGU_T1	1	3	2	1.3	0.7	-0.6	0	0	6	6	0	5400	5400	0
3/26/2024 13:15	66504	SMAN_T2	2	3	1	0.15	0.57	0.42	-1.01	-1.16	0	0	0	0	0	0
3/26/2024 13:15	67605	WARW_T1	46	46	0	0.66	0.66	0	-1.96	-2.15	0	0	0	0	0	0
3/26/2024 13:15	46203	DANV_T2	304	201	-103	1.12	1.05	-0.07	-1.12	-1.15	0	0	0	0	0	0
3/26/2024 13:15	46001	BERW_T1	0	0	0	0	0	0	1.03	0.91	0	0	0	0	0	0
3/26/2024 13:15	42001	MNVL_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
3/26/2024 13:15	45402	WBLO_T2	2	24	22	0.25	0.17	-0.08	-1.72	-1.69	0	0	0	0	0	0
3/26/2024 13:15	66502	SMAN_T2	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
3/26/2024 13:15	46201	DANV_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/26/2024 13:15	67204	TEHI_T2	2	1	-1	0.4	0.3	-0.1	-0.15	-0.17	0	0	0	0	0	0
3/26/2024 13:15	67203	TEHI_T1	0	0	0	0	0	0	2.37	2.44	2	2	0	1200	1200	0
3/26/2024 13:15	62604	ENGL_T1	0	0	0	0	0	0	-0.32	-0.32	1	1	0	600	600	0
3/26/2024 13:15	52403	GRPA_T2	0	42	42	0	0.51	0.51	0	0	0	0	0	0	0	0
3/26/2024 13:15	67002	STHI_T2	137	226	89	0.27	0.23	-0.04	3.01	3.05	0	0	0	0	0	0
3/26/2024 13:15	52401	GRPA_T2	2	2	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/26/2024 13:15	67402	WAKE_T2	0	0	0	0	0	0	2.06	2.12	0	0	0	0	0	0
3/26/2024 13:15	62602	ENGL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/26/2024 13:15	67201	TEHI_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/26/2024 13:15	63404	HONY_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/26/2024 13:15	60801	BUCK_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/26/2024 13:15	44601	SALE_T2	1	0	-1	0.9	0	-0.9	1.59	-0.04	4	4	0	1800	1800	0
3/26/2024 13:15	60101	COCA_T1	2	2	0	0.5	0.15	-0.35	0.23	0.21	0	0	0	0	0	0
3/26/2024 13:15	43201	MVIL_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
3/26/2024 13:15	66501	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/26/2024 13:15	64802	MONE_T2	130	182	52	0.29	0.34	0.05	0.45	0.47	0	0	0	0	0	0
3/26/2024 13:15	45501	DERR_T2	0	0	0	0	0	0	1.49	1.78	4	4	0	3600	3600	0
3/26/2024 13:15	64801	MONE_T2	267	317	50	0.47	0.46	-0.01	-0.42	-0.39	0	0	0	0	0	0
3/26/2024 13:15	67103	SPRI_T1	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
3/26/2024 13:15	67603	WARW_T1	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
3/26/2024 13:15	67001	STHI_T2	356	381	25	0.22	0.24	0.02	0	0	0	0	0	0	0	0
3/26/2024 13:15	66505	SMAN_T2	3	4	1	0.33	0.75	0.42	0	0	0	0	0	0	0	0
3/26/2024 13:15	52402	GRPA_T2	4	26	22	1.55	0.61	-0.94	-1.1	-1.13	0	0	0	0	0	0
3/26/2024 13:15	62605	ENGL_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/26/2024 13:15	67401	WAKE_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/26/2024 13:15	60803	BUCK_T1	0	0	0	0	0	0	-0.56	-0.55	1	1	0	600	600	0
3/26/2024 13:15	43202	MVIL_T2	95	90	-5	0.61	0.68	0.07	-1.82	-1.85	0	0	0	0	0	0
3/26/2024 13:15	63401	HONY_T1	0	0	0	0	0	0	0.82	0.73	0	0	0	0	0	0
3/26/2024 13:16	52403	GRPA_T2	0	42	42	0	0.51	0.51	0	0	0	0	0	0	0	0
3/26/2024 13:16	52401	GRPA_T2	2	2	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/26/2024 13:16	52402	GRPA_T2	4	26	22	1.55	0.61	-0.94	-1.1	-1.13	0	0	0	0	0	0
3/26/2024 13:17	62607	ENGL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/26/2024 13:17	62605	ENGL_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/26/2024 13:17	62602	ENGL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/26/2024 13:17	62604	ENGL_T1	0	0	0	0	0	0	-0.32	-0.32	1	1	0	600	600	0
3/26/2024 13:19	40601	PIGR_T1	218	201	-17	0.45	0.39	-0.06	0	0	0	0	0	0	0	0
3/26/2024 13:19	40603	PIGR_T1	0	2	2	0	0.35	0.35	0.3	0.31	0	0	0	0	0	0
3/26/2024 13:20	58402	MORO_T1	0	0	0	0	0	0	-0.19	-0.19	2	2	0	1500	1500	0
3/26/2024 13:23	58402	MORO_T1	0	0	0	0	0	0	-0.19	-0.19	2	2	0	1500	1500	0
3/26/2024 13:33	63404	HONY_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/26/2024 13:33	63401	HONY_T1	0	0	0	0	0	0	0.73	0.7	0	0	0	0	0	0
3/26/2024 14:03	45901	AUBU_T1	0	0	0	0	0	0	0.01	1.72	0	0	0	0	0	0
3/26/2024 14:03	45902	AUBU_T1	8	7	-1	0.69	0.8	0.11	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/26/2024 14:05	45902	AUBU_T1	8	7	-1	0.69	0.8	0.11	0	0	0	0	0	0	0	0
3/26/2024 14:05	45901	AUBU_T1	0	0	0	0	0	0	0.01	1.72	0	0	0	0	0	0
3/26/2024 14:05	40502	CRES_T2	8	10	2	0.96	0.31	-0.65	-0.02	0.33	0	0	0	0	0	0
3/26/2024 14:05	40501	CRES_T2	11	1	-10	0.39	0.2	-0.19	0	0	0	0	0	0	0	0
3/26/2024 14:08	40501	CRES_T2	11	1	-10	0.39	0.2	-0.19	0	0	0	0	0	0	0	0
3/26/2024 14:08	40502	CRES_T2	8	10	2	0.96	0.31	-0.65	0.65	1.14	0	0	0	0	0	0
3/26/2024 14:14	45901	AUBU_T1	0	0	0	0	0	0	1.72	1.93	0	0	0	0	0	0
3/26/2024 14:14	45902	AUBU_T1	8	7	-1	0.69	0.8	0.11	0	0	0	0	0	0	0	0
3/26/2024 14:20	45902	AUBU_T1	7	3	-4	0.8	0.87	0.07	0.01	-0.61	1	1	0	600	600	0
3/26/2024 14:21	45902	AUBU_T1	7	3	-4	0.8	0.87	0.07	0.01	-0.61	1	1	0	600	600	0
3/26/2024 14:23	45902	AUBU_T1	7	3	-4	0.8	0.87	0.07	-1.23	-1.4	2	2	0	1200	1200	0
3/26/2024 14:24	45902	AUBU_T1	7	3	-4	0.8	0.87	0.07	-0.61	-0.7	1	1	0	600	600	0
3/26/2024 14:27	17805	GILB_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/26/2024 14:27	17804	GILB_T2	2	4	2	0.75	0.58	-0.17	-0.62	-0.62	0	0	0	0	0	0
3/26/2024 14:27	45902	AUBU_T1	7	3	-4	0.8	0.87	0.07	-0.61	-0.7	1	1	0	600	600	0
3/26/2024 14:35	48302	ORWI_T2	2	1	-1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
3/26/2024 14:37	45902	AUBU_T1	3	3	0	0.87	0.5	-0.37	-0.61	-0.7	1	1	0	600	600	0
3/26/2024 14:38	48303	ORWI_T2	2	1	-1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
3/26/2024 14:38	45902	AUBU_T1	3	3	0	0.87	0.5	-0.37	-1.4	-1.17	2	2	0	1200	1200	0
3/26/2024 14:38	48302	ORWI_T2	2	3	1	1.5	1.1	-0.4	-0.02	-0.03	0	0	0	0	0	0
3/26/2024 14:40	45902	AUBU_T1	3	3	0	0.87	0.5	-0.37	-0.7	-0.58	1	1	0	600	600	0
3/26/2024 14:41	45902	AUBU_T1	3	3	0	0.87	0.5	-0.37	-0.7	-0.58	1	1	0	600	600	0
3/26/2024 14:43	45902	AUBU_T1	3	3	0	0.87	0.5	-0.37	-0.7	-0.58	1	1	0	600	600	0
3/26/2024 14:53	48301	ORWI_T1	2	2	0	3.2	5.15	1.95	0	0	0	0	0	0	0	0
3/26/2024 14:53	45902	AUBU_T1	1	3	2	0.6	0.5	-0.1	-0.58	-0.72	1	1	0	600	600	0
3/26/2024 14:55	48301	ORWI_T1	2	2	0	3.2	5.15	1.95	0	0	0	0	0	0	0	0
3/26/2024 14:58	45902	AUBU_T1	1	3	2	0.6	0.5	-0.1	-0.58	-0.72	1	1	0	600	600	0
3/26/2024 15:09	48303	ORWI_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/26/2024 15:09	45902	AUBU_T1	3	2	-1	0.5	0.4	-0.1	-0.72	-0.74	1	1	0	600	600	0
3/26/2024 15:09	48302	ORWI_T2	3	3	0	1.1	1.17	0.07	-0.04	-0.06	0	0	0	0	0	0
3/26/2024 15:12	45902	AUBU_T1	3	2	-1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/26/2024 15:12	45901	AUBU_T1	0	0	0	0	0	0	2.06	2.13	0	0	0	0	0	0
3/26/2024 15:14	45902	AUBU_T1	3	2	-1	0.5	0.4	-0.1	-0.72	-0.74	1	1	0	600	600	0
3/26/2024 15:25	45902	AUBU_T1	2	1	-1	0.4	0.4	0	-0.74	-0.77	1	1	0	600	600	0
3/26/2024 15:27	48303	ORWI_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/26/2024 15:27	48302	ORWI_T2	2	3	1	1.6	1.2	-0.4	-0.06	-0.08	0	0	0	0	0	0
3/26/2024 15:30	45902	AUBU_T1	1	0	-1	0.4	0	-0.4	-0.74	-0.77	1	1	0	600	600	0
3/26/2024 15:40	45902	AUBU_T1	1	0	-1	0.4	0	-0.4	-0.77	-0.82	1	1	0	600	600	0
3/26/2024 15:46	45902	AUBU_T1	0	0	0	0	0	0	-0.77	-0.82	1	1	0	600	600	0
3/26/2024 15:56	45902	AUBU_T1	0	0	0	0	0	0	-0.82	-0.86	1	1	0	600	600	0
3/26/2024 16:01	45902	AUBU_T1	0	0	0	0	0	0	-0.82	-0.86	1	1	0	600	600	0
3/26/2024 16:12	45902	AUBU_T1	0	0	0	0	0	0	-0.86	-0.96	1	1	0	600	600	0
3/26/2024 16:17	45902	AUBU_T1	0	0	0	0	0	0	-0.86	-0.96	1	1	0	600	600	0
3/26/2024 16:22	45902	AUBU_T1	0	0	0	0	0	0	-0.86	-0.96	1	1	0	600	600	0
3/26/2024 16:28	45902	AUBU_T1	0	0	0	0	0	0	-1.92	-1.91	2	2	0	1200	1200	0
3/26/2024 17:28	40502	CRES_T2	0	2	2	0	0.1	0.1	0.6	0.59	0	0	0	0	0	0
3/26/2024 17:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 20:09	67103	SPRI_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
3/26/2024 20:10	43202	MVIL_T2	50	54	4	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/26/2024 20:10	52402	GRPA_T2	3	5	2	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
3/26/2024 20:10	52401	GRPA_T2	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
3/26/2024 20:10	43201	MVIL_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
3/26/2024 20:10	52403	GRPA_T2	0	1	1	0	0	0	-0.02	-0.04	0	0	0	0	0	0
3/26/2024 20:12	56802	BENV_T2	0	2	2	0	0.15	0.15	-1.35	-1.38	0	0	0	0	0	0
3/26/2024 20:13	56802	BENV_T2	0	2	2	0	0.15	0.15	-1.35	-1.38	0	0	0	0	0	0
3/26/2024 20:15	56802	BENV_T2	1	2	1	0.1	0.15	0.05	-1.35	-1.38	0	0	0	0	0	0
3/26/2024 20:17	10805	CHHI_T2	1	7	6	8.1	1.69	-6.41	-0.76	-0.67	0	0	0	0	0	0
3/26/2024 20:19	42201	SHEN_T2	0	0	0	0	0	0	0.44	0.37	0	0	0	0	0	0
3/26/2024 20:23	53903	HALI_T2	2	2	0	1.3	1.7	0.4	-0.22	-0.22	0	0	0	0	0	0
3/26/2024 20:23	53902	HALI_T2	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
3/26/2024 20:23	53901	HALI_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/26/2024 20:27	56802	BENV_T2	1	2	1	0.1	0.15	0.05	-1.38	-1.37	0	0	0	0	0	0
3/26/2024 20:28	57403	SPAN_T1	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
3/26/2024 20:28	57401	SPAN_T1	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
3/26/2024 20:30	56802	BENV_T2	2	8	6	0.15	0.11	-0.04	-1.38	-1.37	0	0	0	0	0	0
3/26/2024 20:31	56802	BENV_T2	2	8	6	0.15	0.11	-0.04	-1.38	-1.37	0	0	0	0	0	0
3/26/2024 20:43	10705	CATA_T2	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
3/26/2024 20:43	10702	CATA_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/26/2024 20:44	46504	LOHA_T1	2	2	0	1.5	1.25	-0.25	0	0	0	0	0	0	0	0
3/26/2024 20:44	46506	LOHA_T1	1	3	2	0.5	0.43	-0.07	-0.45	-0.45	0	0	0	0	0	0
3/26/2024 20:44	17805	GILB_T2	0	0	0	0	0	0	-0.18	-0.23	0	0	0	0	0	0
3/26/2024 20:45	46504	LOHA_T1	2	17	15	1.25	0.29	-0.96	0	0	0	0	0	0	0	0
3/26/2024 20:45	46506	LOHA_T1	1	3	2	0.7	0.43	-0.27	-0.45	-0.45	0	0	0	0	0	0
3/26/2024 20:46	46504	LOHA_T1	2	17	15	1.25	0.29	-0.96	0	0	0	0	0	0	0	0
3/26/2024 20:46	46506	LOHA_T1	1	3	2	0.7	0.43	-0.27	-0.45	-0.45	0	0	0	0	0	0
3/26/2024 20:48	46004	BERW_T2	0	0	0	0	0	0	-0.52	-0.56	0	0	0	0	0	0
3/26/2024 20:54	64305	LINC_T1	0	1	1	0	0.1	0.1	-0.61	-0.69	0	0	0	0	0	0
3/26/2024 20:56	55105	WERT_T1	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
3/26/2024 20:58	26002	WDAM_T1	19	31	12	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
3/26/2024 20:58	26001	WDAM_T1	12	11	-1	0.17	0.15	-0.02	-0.41	-0.41	0	0	0	0	0	0
3/26/2024 20:58	60803	BUCK_T1	0	0	0	0	0	0	-0.57	-0.57	1	1	0	600	600	0
3/26/2024 20:59	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/26/2024 20:59	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 20:59	66504	SMAN_T2	0	0	0	0	0	0	-1.1	-1.15	0	0	0	0	0	0
3/26/2024 20:59	66505	SMAN_T2	3	3	0	0.97	1.1	0.13	0	0	0	0	0	0	0	0
3/26/2024 20:59	54501	ENOL_T2	0	0	0	0	0	0	0.12	0.08	0	0	0	0	0	0
3/26/2024 21:02	60803	BUCK_T1	0	0	0	0	0	0	-0.57	-0.57	1	1	0	600	600	0
3/26/2024 21:02	43202	MVIL_T2	59	62	3	0.55	0.64	0.09	-0.72	-0.72	0	0	0	0	0	0
3/26/2024 21:03	13501	MCMI_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
3/26/2024 21:03	40101	HUNT_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
3/26/2024 21:04	26401	INOR_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
3/26/2024 21:04	43202	MVIL_T2	59	62	3	0.55	0.64	0.09	-0.72	-0.72	0	0	0	0	0	0
3/26/2024 21:04	40101	HUNT_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
3/26/2024 21:05	43202	MVIL_T2	59	62	3	0.55	0.64	0.09	-0.72	-0.72	0	0	0	0	0	0
3/26/2024 21:05	13503	MCMI_T2	13	0	-13	0.15	0	-0.15	-0.91	-0.91	0	0	0	0	0	0
3/26/2024 21:05	27502	WEIS_T2	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
3/26/2024 21:05	64801	MONE_T2	14	28	14	0.23	0.33	0.1	0	0	0	0	0	0	0	0
3/26/2024 21:05	64802	MONE_T2	2	37	35	0.1	0.12	0.02	0.05	0.06	0	0	0	0	0	0
3/26/2024 21:06	25402	LAHA_T2	0	0	0	0	0	0	-0.92	-0.93	0	0	0	0	0	0
3/26/2024 21:06	52501	PROG_T1	0	0	0	0	0	0	0.36	0.34	1	1	0	300	300	0
3/26/2024 21:08	59101	WALK_T2	0	0	0	0	0	0	1.2	1.17	0	0	0	0	0	0
3/26/2024 21:09	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 21:11	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 21:11	46203	DANV_T2	289	246	-43	0.72	0.92	0.2	-1.15	-1.14	0	0	0	0	0	0
3/26/2024 21:12	41802	GOCI_T2	18	21	3	0.31	0.31	0	0	0	0	0	0	0	0	0
3/26/2024 21:12	53902	HALI_T2	1	1	0	5.7	6.1	0.4	0	0	0	0	0	0	0	0
3/26/2024 21:12	53901	HALI_T2	1	2	1	0.6	0.6	0	0	0	0	0	0	0	0	0
3/26/2024 21:12	53903	HALI_T2	2	3	1	1.55	1.23	-0.32	-0.23	-0.23	0	0	0	0	0	0
3/26/2024 21:12	42002	MNVL_T2	1	1	0	4.7	4.6	-0.1	0	0	0	0	0	0	0	0
3/26/2024 21:12	42001	MNVL_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
3/26/2024 21:12	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 21:12	24902	WHHA_T1	2	2	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
3/26/2024 21:12	41801	GOCI_T2	4	35	31	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/26/2024 21:13	17805	GILB_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
3/26/2024 21:13	46203	DANV_T2	289	246	-43	0.72	0.92	0.2	-1.15	-1.14	0	0	0	0	0	0
3/26/2024 21:14	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/26/2024 21:14	45602	WOOL_T1	3	3	0	1.17	1.17	0	0.37	0.36	0	0	0	0	0	0
3/26/2024 21:14	40901	JESH_T1	34	127	93	0.14	0.26	0.12	0	0	0	0	0	0	0	0
3/26/2024 21:14	59003	MIFF_T1	1	1	0	0.1	0.5	0.4	-0.35	-0.47	0	0	0	0	0	0
3/26/2024 21:14	54505	ENOL_T2	1	1	0	0.7	1	0.3	-1.36	-1.37	1	1	0	600	600	0
3/26/2024 21:14	52202	DEVO_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
3/26/2024 21:14	40902	JESH_T1	31	107	76	0.17	0.18	0.01	-0.79	-0.81	0	0	0	0	0	0
3/26/2024 21:14	46203	DANV_T2	289	246	-43	0.72	0.92	0.2	-1.15	-1.14	0	0	0	0	0	0
3/26/2024 21:14	40903	JESH_T1	51	167	116	0.11	0.21	0.1	0	0	0	0	0	0	0	0
3/26/2024 21:14	59002	MIFF_T1	2	5	3	0.15	0.28	0.13	0	0	0	0	0	0	0	0
3/26/2024 21:15	57303	MOAL_T2	1	1	0	7.7	7.4	-0.3	0	0	0	0	0	0	0	0
3/26/2024 21:15	41801	GOCI_T2	14	60	46	0.14	0.17	0.03	0	0	0	0	0	0	0	0
3/26/2024 21:15	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/26/2024 21:15	45702	LIND_T2	1	1	0	1.5	0.6	-0.9	-0.67	-0.59	0	0	0	0	0	0
3/26/2024 21:15	56603	HAMP_T1	0	0	0	0	0	0	-1.22	-1.27	0	0	0	0	0	0
3/26/2024 21:15	53903	HALI_T2	3	5	2	1.17	0.84	-0.33	-0.23	-0.23	0	0	0	0	0	0
3/26/2024 21:15	53902	HALI_T2	1	1	0	5.9	6.2	0.3	0	0	0	0	0	0	0	0
3/26/2024 21:15	57304	MOAL_T2	1	1	0	0.1	0.2	0.1	-0.54	-0.55	0	0	0	0	0	0
3/26/2024 21:15	53901	HALI_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
3/26/2024 21:15	24902	WHHA_T1	2	2	0	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
3/26/2024 21:15	41802	GOCI_T2	20	24	4	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/26/2024 21:15	46801	HEPB_T2	2	2	0	0.45	0.55	0.1	0.52	0.52	0	0	0	0	0	0
3/26/2024 21:16	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	-1.36	-1.37	1	1	0	600	600	0
3/26/2024 21:16	53901	HALI_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
3/26/2024 21:16	54502	ENOL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/26/2024 21:16	64802	MONE_T2	33	41	8	0.11	0.12	0.01	0	0	0	0	0	0	0	0
3/26/2024 21:16	17805	GILB_T2	0	0	0	0	0	0	-0.62	-0.65	0	0	0	0	0	0
3/26/2024 21:16	53902	HALI_T2	1	1	0	5.9	6.2	0.3	0	0	0	0	0	0	0	0
3/26/2024 21:16	64801	MONE_T2	27	63	36	0.33	0.33	0	-0.4	-0.39	0	0	0	0	0	0
3/26/2024 21:16	53903	HALI_T2	3	9	2	1.17	0.84	-0.33	-0.23	-0.23	0	0	0	0	0	0
3/26/2024 21:17	28801	LAKE_T1	73	213	140	0.12	0.29	0.17	0	0	0	0	0	0	0	0
3/26/2024 21:17	64204	KINZ_T1	4	18	14	0.43	0.22	-0.21	0	0	0	0	0	0	0	0
3/26/2024 21:17	28803	LAKE_T1	9	12	3	0.29	0.35	0.06	0	0	0	0	0	0	0	0
3/26/2024 21:17	64201	KINZ_T1	7	8	1	0.44	0.55	0.11	0	0	0	0	0	0	0	0
3/26/2024 21:17	64203	KINZ_T1	0	18	18	0	0.16	0.16	-0.04	-0.02	0	0	0	0	0	0
3/26/2024 21:17	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/26/2024 21:17	41802	GOCI_T2	20	24	4	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/26/2024 21:17	28805	LAKE_T1	19	23	4	0.36	0.49	0.13	-0.25	-0.26	0	0	0	0	0	0
3/26/2024 21:17	41801	GOCI_T2	14	60	46	0.14	0.17	0.03	0	0	0	0	0	0	0	0
3/26/2024 21:17	16402	MOPO_T1	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
3/26/2024 21:17	64202	KINZ_T1	1	8	7	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/26/2024 21:18	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	-1.36	-1.37	1	1	0	600	600	0
3/26/2024 21:18	55002	NEWP_T1	4	5	1	0.55	0.8	0.25	-0.58	-0.58	0	0	0	0	0	0
3/26/2024 21:18	54502	ENOL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/26/2024 21:18	28801	LAKE_T1	73	213	140	0.12	0.29	0.17	0	0	0	0	0	0	0	0
3/26/2024 21:18	28803	LAKE_T1	9	12	3	0.29	0.35	0.06	0	0	0	0	0	0	0	0
3/26/2024 21:18	28805	LAKE_T1	19	23	4	0.36	0.49	0.13	-0.25	-0.26	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/26/2024 21:18	45501	DERR_T2	0	0	0	0	0	0	-0.09	-0.28	2	2	0	1800	1800	0
3/26/2024 21:18	10805	CHHI_T2	1	6	5	7.9	7.8	-0.1	-0.78	-0.68	0	0	0	0	0	0
3/26/2024 21:19	46702	RENO_T1	25	92	67	0.15	0.18	0.03	-0.17	-0.17	0	0	0	0	0	0
3/26/2024 21:19	42002	MNVL_T2	1	1	0	4.7	4.6	-0.1	0	0	0	0	0	0	0	0
3/26/2024 21:19	42001	MNVL_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
3/26/2024 21:19	62607	ENGL_T1	0	0	0	0	0	0	-0.82	-0.82	0	0	0	0	0	0
3/26/2024 21:19	64802	MONE_T2	33	41	8	0.11	0.12	0.01	0.06	0.06	0	0	0	0	0	0
3/26/2024 21:19	44601	SALE_T2	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
3/26/2024 21:19	46701	RENO_T1	59	110	51	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
3/26/2024 21:19	64801	MONE_T2	27	63	36	0.33	0.33	0	0	0	0	0	0	0	0	0
3/26/2024 21:19	59101	WALK_T2	0	1	1	0	0.1	0.1	1.2	1.17	0	0	0	0	0	0
3/26/2024 21:19	55002	NEWP_T1	4	5	1	0.55	0.8	0.25	-0.29	-0.29	0	0	0	0	0	0
3/26/2024 21:20	13302	ORVI_T2	9	11	2	0.14	0.25	0.11	1.27	1.19	0	0	0	0	0	0
3/26/2024 21:20	57401	SPAN_T1	2	2	0	0.85	1.05	0.2	0	0	0	0	0	0	0	0
3/26/2024 21:20	57403	SPAN_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
3/26/2024 21:20	57303	MOAL_T2	1	1	0	7.7	7.4	-0.3	0	0	0	0	0	0	0	0
3/26/2024 21:20	59101	WALK_T2	0	1	1	0	0.1	0.1	1.2	1.17	0	0	0	0	0	0
3/26/2024 21:20	25503	MADI_T1	34	93	59	0.12	0.18	0.06	-1.01	-1.03	0	0	0	0	0	0
3/26/2024 21:20	57304	MOAL_T2	1	1	0	0.1	0.2	0.1	-0.54	-0.55	0	0	0	0	0	0
3/26/2024 21:20	49803	UNIV_T1	0	0	0	0	0	0	-1.19	-1.19	0	0	0	0	0	0
3/26/2024 21:20	44601	SALE_T2	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
3/26/2024 21:20	55002	NEWP_T1	4	5	1	0.55	0.8	0.25	-0.58	-0.58	0	0	0	0	0	0
3/26/2024 21:20	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/26/2024 21:21	45501	DERR_T2	0	0	0	0	0	0	-0.09	-0.28	2	2	0	1800	1800	0
3/26/2024 21:21	48901	FOSP_T2	0	0	0	0	0	0	-0.45	-0.41	1	1	0	600	600	0
3/26/2024 21:21	67605	WARW_T1	8	21	13	0.34	0.55	0.21	-1.13	-1.19	0	0	0	0	0	0
3/26/2024 21:21	63602	LETO_T1	0	0	0	0	0	0	-0.64	-0.41	0	0	0	0	0	0
3/26/2024 21:21	26001	WDAM_T1	6	15	9	0.15	0.15	0	-2.82	-0.8	0	0	0	0	0	0
3/26/2024 21:21	59302	MCAL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/26/2024 21:21	26002	WDAM_T1	27	46	19	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/26/2024 21:21	59301	MCAL_T1	0	2	2	0	0.5	0.5	-1.22	-1.23	0	0	0	0	0	0
3/26/2024 21:21	57401	SPAN_T1	2	2	0	0.85	1.05	0.2	-0.37	-0.38	1	1	0	600	600	0
3/26/2024 21:22	48302	ORWI_T2	2	2	0	1.4	1.55	0.15	-0.09	-0.1	0	0	0	0	0	0
3/26/2024 21:22	57401	SPAN_T1	2	2	0	0.85	1.05	0.2	-0.37	-0.38	1	1	0	600	600	0
3/26/2024 21:22	57403	SPAN_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
3/26/2024 21:22	17002	RIRO_T2	6	48	42	0.16	0.17	0.01	0.28	0.31	0	0	0	0	0	0
3/26/2024 21:22	45902	AUBU_T1	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
3/26/2024 21:23	10801	CHHI_T1	0	0	0	0	0	0	-1.03	-1.06	1	1	0	900	900	0
3/26/2024 21:23	65001	NEFF_T2	15	118	103	0.13	0.14	0.01	0	0	0	0	0	0	0	0
3/26/2024 21:23	56802	BENV_T2	167	169	2	0.36	0.39	0.03	-1.46	-1.42	0	0	0	0	0	0
3/26/2024 21:23	48301	ORWI_T1	2	2	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
3/26/2024 21:23	45902	AUBU_T1	0	0	0	0	0	0	-0.52	-0.57	0	0	0	0	0	0
3/26/2024 21:23	42601	TUSC_T1	0	0	0	0	0	0	-0.64	-0.61	2	2	0	1800	1800	0
3/26/2024 21:23	65004	NEFF_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
3/26/2024 21:23	67605	WARW_T1	8	21	13	0.34	0.55	0.21	-1.19	-1.16	0	0	0	0	0	0
3/26/2024 21:23	40201	BEGA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/26/2024 21:23	57401	SPAN_T1	2	2	0	0.85	1.05	0.2	-0.76	-0.73	2	2	0	1200	1200	0
3/26/2024 21:24	48302	ORWI_T2	2	2	0	1.4	1.55	0.15	-0.1	-0.13	0	0	0	0	0	0
3/26/2024 21:24	45902	AUBU_T1	0	0	0	0	0	0	-0.52	-0.57	0	0	0	0	0	0
3/26/2024 21:24	48301	ORWI_T1	2	2	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
3/26/2024 21:24	56802	BENV_T2	167	169	2	0.36	0.39	0.03	-1.46	-1.42	0	0	0	0	0	0
3/26/2024 21:24	42601	TUSC_T1	0	0	0	0	0	0	-0.64	-0.61	2	2	0	1800	1800	0
3/26/2024 21:24	48901	FOSP_T2	0	0	0	0	0	0	-0.41	-0.42	1	1	0	600	600	0
3/26/2024 21:24	67605	WARW_T1	8	21	13	0.34	0.55	0.21	-1.19	-1.16	0	0	0	0	0	0
3/26/2024 21:24	65001	NEFF_T2	15	118	103	0.13	0.14	0.01	-1.03	-1.04	1	1	0	1200	1200	0
3/26/2024 21:24	42701	AUGU_T1	1	1	0	0.8	1.1	0.3	0	0	4	4	0	3600	3600	0
3/26/2024 21:24	40201	BEGA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/26/2024 21:24	45901	AUBU_T1	0	0	0	0	0	0	1.83	1.79	0	0	0	0	0	0
3/26/2024 21:25	42701	AUGU_T1	1	1	0	0.8	1.1	0.3	0	0	2	2	0	1800	1800	0
3/26/2024 21:25	63401	HONY_T1	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
3/26/2024 21:25	60101	COCA_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
3/26/2024 21:25	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
3/26/2024 21:25	45402	WBLO_T2	36	46	10	0.21	0.32	0.11	-1.75	-1.81	0	0	0	0	0	0
3/26/2024 21:25	45901	AUBU_T1	0	0	0	0	0	0	1.83	1.79	0	0	0	0	0	0
3/26/2024 21:25	67002	STHI_T2	0	4	4	0	0.1	0.1	0.98	1	0	0	0	0	0	0
3/26/2024 21:25	56802	BENV_T2	167	169	2	0.36	0.39	0.03	-2.92	-2.85	0	0	0	0	0	0
3/26/2024 21:25	67001	STHI_T2	1	10	9	0.5	0.14	-0.36	0	0	0	0	0	0	0	0
3/26/2024 21:25	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	900	900	0
3/26/2024 21:25	29402	BELT_T1	1	1	0	7.2	7.6	0.4	0	0	0	0	0	0	0	0
3/26/2024 21:26	42701	AUGU_T1	1	1	0	0.8	1.1	0.3	0	0	2	2	0	1800	1800	0
3/26/2024 21:26	60201	ATGL_T2	0	0	0	0	0	0	0.39	0.49	0	0	0	0	0	0
3/26/2024 21:26	58001	WCAR_T1	5	12	7	0.94	0.61	-0.33	0	0	0	0	0	0	0	0
3/26/2024 21:26	29402	BELT_T1	1	1	0	7.2	7.6	0.4	0	0	0	0	0	0	0	0
3/26/2024 21:26	50201	HARR_T3	2	2	0	5.1	5.05	-0.05	0	0	0	0	0	0	0	0
3/26/2024 21:26	45501	DERR_T2	0	0	0	0	0	0	-0.28	-0.23	2	2	0	1800	1800	0
3/26/2024 21:26	50103	HARR_T3	2	2	0	0.35	1.4	1.05	-1.06	-1.07	1	1	0	1200	1200	0
3/26/2024 21:26	48302	ORWI_T2	2	2	0	1.4	1.55	0.15	-0.1	-0.13	0	0	0	0	0	0
3/26/2024 21:26	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	900	900	0
3/26/2024 21:26	67103	SPRI_T1	0	0	0	0	0	0	-0.27	-0.26	0	0	0	0	0	0
3/26/2024 21:26	58003	WCAR_T1	21	64	43	0.28	0.34	0.06	0.6	0.57	0	0	0	0	0	0
3/26/2024 21:26	50102	HARR_T3	10	17	7	0.25	0.29	0.04	0	0	0	0	0	0	0	0
3/26/2024 21:26	57401	SPAN_T1	2	2	0	0.85	1.05	0.2	-0.38	-0.36	1	1	0	600	600	0
3/26/2024 21:26	45902	AUBU_T1	0	0	0	0	0	0	-0.52	-0.57	0	0	0	0	0	0
3/26/2024 21:26	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
3/26/2024 21:26	50105	HARR_T3	7	7	0	6.16	5.76	-0.4	0	0	0	0	0	0	0	0
3/26/2024 21:26	10801	CHHI_T1	0	0	0	0	0	0	-1.03	-1.06	1	1	0	900	900	0
3/26/2024 21:26	56802	BENV_T2	167	169	2	0.36	0.39	0.03	-4.38	-4.27	0	0	0	0	0	0
3/26/2024 21:26	50202	HARR_T3	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/26/2024 21:27	50201	HARR_T3	2	2	0	5.1	5.05	-0.05	0	0	0	0	0	0	0	0
3/26/2024 21:27	29402	BELT_T1	1	1	0	7.2	7.6	0.4	0	0	0	0	0	0	0	0
3/26/2024 21:27	50105	HARR_T3	7	7	0	6.16	5.76	-0.4	0	0	0	0	0	0	0	0
3/26/2024 21:27	50202	HARR_T3	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/26/2024 21:27	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/26/2024 21:27	60701	BREC_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
3/26/2024 21:27	50103	HARR_T3	2	2	0	0.35	1.4	1.05	-1.06	-1.07	1	1	0	1200	1200	0
3/26/2024 21:27	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
3/26/2024 21:27	67002	STHI_T2	0	4	4	0	0.1	0.1	1.47	1.5	0	0	0	0	0	0
3/26/2024 21:27	50102	HARR_T3	10	17	7	0.25	0.29	0.04	0	0	0	0	0	0	0	0
3/26/2024 21:27	67001	STHI_T2	1	10	9	0.5	0.14	-0.36	0	0	0	0	0	0	0	0
3/26/2024 21:27	60101	COCA_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
3/26/2024 21:28	67001	STHI_T2	1	10	9	0.5	0.14	-0.36	0	0	0	0	0	0	0	0
3/26/2024 21:28	67002	STHI_T2	0	4	4	0	0.1	0.1	0.49	0.5	0	0	0	0	0	0
3/26/2024 21:28	48301	ORWI_T1	2	2	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
3/26/2024 21:28	67401	WAKE_T2	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
3/26/2024 21:28	67203	TEHI_T1	0	0	0	0	0	0	2.24	2.15	1	1	0	600	600	0
3/26/2024 21:28	46001	BERW_T1	0	0	0	0	0	0	1.1	1.12	0	0	0	0	0	0
3/26/2024 21:28	52202	DEVO_T2	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
3/26/2024 21:29	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	5	5	0	4500	4500	0
3/26/2024 21:29	57401	SPAN_T1	2	2	0	0.85	1.05	0.2	0	0	0	0	0	0	0	0
3/26/2024 21:29	67204	TEHI_T2	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
3/26/2024 21:29	67001	STHI_T2	1	10	9	0.5	0.14	-0.36	0	0	0	0	0	0	0	0
3/26/2024 21:29	29402	BELT_T1	1	1	0	7.2	7.6	0.4	0	0	0	0	0	0	0	0
3/26/2024 21:29	40502	CRES_T2	13	18	5	0.18	0.23	0.05	-0.02	-0.03	0	0	0	0	0	0
3/26/2024 21:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 21:29	45902	AUBU_T1	0	0	0	0	0	0	-0.52	-0.57	0	0	0	0	0	0
3/26/2024 21:29	60701	BREC_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
3/26/2024 21:29	57403	SPAN_T1	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
3/26/2024 21:29	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
3/26/2024 21:29	67002	STHI_T2	0	4	4	0	0.1	0.1	0.49	0.5	0	0	0	0	0	0
3/26/2024 21:30	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	1	1	0	900	900	0
3/26/2024 21:30	46004	BERW_T2	0	0	0	0	0	0	-0.38	-0.45	0	0	0	0	0	0
3/26/2024 21:30	29402	BELT_T1	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
3/26/2024 21:32	67002	STHI_T2	3	5	2	0.1	0.1	0	0.49	0.5	0	0	0	0	0	0
3/26/2024 21:32	67201	TEHI_T1	0	0	0	0	0	0	-0.62	-0.1	1	0	-1	600	0	-600
3/26/2024 21:32	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
3/26/2024 21:32	67001	STHI_T2	8	155	147	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
3/26/2024 21:33	40903	JESH_T1	159	175	16	0.21	0.24	0.03	0	0	0	0	0	0	0	0
3/26/2024 21:33	40902	JESH_T1	86	276	190	0.2	0.18	-0.02	-0.81	-0.82	0	0	0	0	0	0
3/26/2024 21:33	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
3/26/2024 21:33	40901	JESH_T1	118	152	34	0.25	0.33	0.08	0	0	0	0	0	0	0	0
3/26/2024 21:33	60701	BREC_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
3/26/2024 21:34	52402	GRPA_T2	5	4	-1	1.06	1.6	0.54	-0.93	-0.89	0	0	0	0	0	0
3/26/2024 21:34	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
3/26/2024 21:34	58001	WCAR_T1	6	18	12	0.87	0.54	-0.33	0	0	0	0	0	0	0	0
3/26/2024 21:34	58003	WCAR_T1	51	77	26	0.25	0.39	0.14	0.6	0.57	0	0	0	0	0	0
3/26/2024 21:35	65001	NEFF_T2	41	191	150	0.13	0.19	0.06	-1.03	-1.04	1	1	0	1200	1200	0
3/26/2024 21:35	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/26/2024 21:35	52402	GRPA_T2	5	4	-1	1.06	1.6	0.54	-0.93	-0.89	0	0	0	0	0	0
3/26/2024 21:35	67001	STHI_T2	8	155	147	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
3/26/2024 21:35	40502	CRES_T2	18	3	-15	0.23	0.2	-0.03	-0.02	-0.03	0	0	0	0	0	0
3/26/2024 21:35	67002	STHI_T2	3	5	2	0.1	0.1	0	0.49	0.5	0	0	0	0	0	0
3/26/2024 21:36	64305	LINC_T1	2	3	1	0.2	0.37	0.17	-0.72	-0.63	0	0	0	0	0	0
3/26/2024 21:36	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
3/26/2024 21:37	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
3/26/2024 21:40	40101	HUNT_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
3/26/2024 22:09	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
3/27/2024 1:47	52002	LING_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/27/2024 1:47	52006	LING_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
3/27/2024 1:47	52004	LING_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
3/27/2024 7:11	67303	WYOM_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
3/27/2024 7:11	67402	WAKE_T2	0	0	0	0	0	0	-0.13	-0.14	1	1	0	600	600	0
3/27/2024 8:10	45502	DERR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/27/2024 8:10	24902	WHHA_T1	6	6	0	0.95	1.15	0.2	0	0	0	0	0	0	0	0
3/27/2024 8:10	45501	DERR_T2	0	0	0	0	0	0	0.63	0.63	2	2	0	1800	1800	0
3/27/2024 8:11	52404	GRPA_T2	0	0	0	0	0	0	0.33	0.47	0	0	0	0	0	0
3/27/2024 8:11	46203	DANV_T2	0	96	96	0	0.44	0.44	-1.02	-1.05	0	0	0	0	0	0
3/27/2024 8:11	52402	GRPA_T2	1	5	4	3.4	1.14	-2.26	0	0	0	0	0	0	0	0
3/27/2024 8:11	46206	DANV_T2	1	2	1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/27/2024 8:12	46206	DANV_T2	1	2	1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/27/2024 8:12	46203	DANV_T2	0	96	96	0	0.44	0.44	-1.02	-1.05	0	0	0	0	0	0
3/27/2024 8:16	52402	GRPA_T2	5	5	0	0.86	1.3	0.44	0	0	0	0	0	0	0	0
3/27/2024 8:16	52404	GRPA_T2	0	0	0	0	0	0	0.33	0.47	0	0	0	0	0	0
3/27/2024 8:26	20601	GRWO_T2	5	7	2	0.48	1.6	1.12	0.77	-0.08	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/27/2024 8:30	58402	MORO_T1	0	0	0	0	0	0	-1.01	-0.92	3	3	0	2400	2400	0
3/27/2024 8:32	58402	MORO_T1	0	0	0	0	0	0	-1.01	-0.92	3	3	0	2400	2400	0
3/27/2024 8:39	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 8:40	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 8:43	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 8:53	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 8:55	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 8:56	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 9:10	67402	WAKE_T2	0	0	0	0	0	0	0.4	0.39	1	1	0	600	600	0
3/27/2024 9:27	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/27/2024 9:27	52402	GRPA_T2	1	1	0	3.8	2.9	-0.9	-0.95	-0.94	0	0	0	0	0	0
3/27/2024 9:28	52402	GRPA_T2	1	1	0	3.8	2.9	-0.9	-0.95	-0.94	0	0	0	0	0	0
3/27/2024 9:28	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/27/2024 9:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 9:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 9:31	43202	MVIL_T2	0	11	11	0	0.15	0.15	-0.58	-0.61	0	0	0	0	0	0
3/27/2024 9:32	56501	ROCK_T2	4	8	4	0.8	0.28	-0.52	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 9:34	56501	ROCK_T2	4	8	4	0.8	0.28	-0.52	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 9:35	49803	UNIV_T1	0	0	0	0	0	0	-1.07	-1.1	0	0	0	0	0	0
3/27/2024 9:38	56802	BENV_T2	1	10	9	1.1	0.2	-0.9	-1.34	-1.3	0	0	0	0	0	0
3/27/2024 9:39	56802	BENV_T2	1	10	9	1.1	0.2	-0.9	-1.34	-1.3	0	0	0	0	0	0
3/27/2024 9:40	56802	BENV_T2	1	10	9	1.1	0.2	-0.9	-1.34	-1.3	0	0	0	0	0	0
3/27/2024 9:45	43202	MVIL_T2	1	13	12	0.1	0.15	0.05	-0.61	-0.58	0	0	0	0	0	0
3/27/2024 9:46	45003	LIME_2	2	2	0	1.6	2.8	1.2	0	0	1	1	0	1200	1200	0
3/27/2024 9:48	43202	MVIL_T2	1	13	12	0.1	0.15	0.05	-0.61	-0.58	0	0	0	0	0	0
3/27/2024 9:49	41902	REED_T1	1	7	6	0.2	0	-0.2	1.04	1.12	0	0	0	0	0	0
3/27/2024 9:49	41901	REED_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/27/2024 9:49	17002	RIRO_T2	38	34	-4	0.17	0.15	-0.02	0.65	0.68	0	0	0	0	0	0
3/27/2024 9:50	41902	REED_T1	1	7	6	0.2	0	-0.2	1.04	1.12	0	0	0	0	0	0
3/27/2024 9:50	41901	REED_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/27/2024 9:51	41902	REED_T1	1	7	6	0.2	0	-0.2	1.04	1.12	0	0	0	0	0	0
3/27/2024 9:51	49803	UNIV_T1	0	0	0	0	0	0	-1.1	-1.09	0	0	0	0	0	0
3/27/2024 9:51	41901	REED_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/27/2024 9:53	20403	ASHF_T2	0	2	2	0	0.1	0.1	0.06	0.05	0	0	0	0	0	0
3/27/2024 9:53	67402	WAKE_T2	0	0	0	0	0	0	0.19	0.16	1	1	0	600	600	0
3/27/2024 9:53	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 9:54	56802	BENV_T2	2	68	66	0.6	0.17	-0.43	-1.3	-1.32	0	0	0	0	0	0
3/27/2024 9:55	20403	ASHF_T2	0	2	2	0	0.1	0.1	0.06	0.05	0	0	0	0	0	0
3/27/2024 9:55	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 9:55	56802	BENV_T2	2	68	66	0.6	0.17	-0.43	-1.3	-1.32	0	0	0	0	0	0
3/27/2024 9:58	56802	BENV_T2	2	68	66	0.6	0.17	-0.43	-1.3	-1.32	0	0	0	0	0	0
3/27/2024 9:59	57303	MOAL_T2	1	1	0	7.3	7.2	-0.1	0	0	0	0	0	0	0	0
3/27/2024 9:59	57304	MOAL_T2	1	0	-1	0.1	0	-0.1	-0.46	-0.35	0	0	0	0	0	0
3/27/2024 10:00	58001	WCAR_T1	3	3	0	0.83	0.9	0.07	0	0	0	0	0	0	0	0
3/27/2024 10:00	46003	BERW_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 10:00	65004	NEFF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.77	1	1	0	900	900	0
3/27/2024 10:00	24102	EHAZ_T1	5	1	-4	0.34	0	-0.34	0	0	0	0	0	0	0	0
3/27/2024 10:00	16402	MOPO_T1	1	0	-1	0.6	0	-0.6	0.02	0.03	0	0	0	0	0	0
3/27/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	0.02	-0.06	0	0	0	0	0	0
3/27/2024 10:00	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	1.01	0.88	0	0	0	0	0	0
3/27/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.36	-0.27	1	1	0	600	600	0
3/27/2024 10:00	43201	MVIL_T2	0	0	0	0	0	0	-0.4	-0.32	0	0	0	0	0	0
3/27/2024 10:00	53501	EVIL_T2	2	2	0	0.2	0.25	0.05	-0.41	-0.36	1	1	0	600	600	0
3/27/2024 10:00	60101	COGA_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
3/27/2024 10:00	66505	SMAN_T2	0	0	0	0	0	0	0.02	0.13	2	2	0	1100	1100	0
3/27/2024 10:00	24105	EHAZ_T1	4	4	0	6.6	6.58	-0.02	-0.69	-0.71	1	1	0	1200	1200	0
3/27/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
3/27/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.22	-0.14	0	0	0	0	0	0
3/27/2024 10:00	41902	REED_T1	0	7	7	0	1.18	1.18	2.23	2.26	0	0	0	0	0	0
3/27/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0	0.01	1	1	0	600	600	0
3/27/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-0.56	-0.66	1	1	0	1200	1200	0
3/27/2024 10:00	42301	MOWR_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
3/27/2024 10:00	40504	CRES_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 10:00	43202	MVIL_T2	11	29	18	0.15	0.18	0.03	0	0	0	0	0	0	0	0
3/27/2024 10:00	58003	WCAR_T1	1	1	0	1.6	1.7	0.1	0.68	0.69	0	0	0	0	0	0
3/27/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
3/27/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.19	0.16	1	1	0	600	600	0
3/27/2024 10:00	57303	MOAL_T2	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
3/27/2024 10:00	17002	RIRO_T2	28	25	-3	0.15	0.16	0.01	0.68	0.68	0	0	0	0	0	0
3/27/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.14	-0.05	0	0	0	0	0	0
3/27/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	-0.32	-0.51	2	2	0	1200	1200	0
3/27/2024 10:00	41901	REED_T1	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/27/2024 10:00	67605	WARW_T1	3	7	4	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
3/27/2024 10:00	46206	DANV_T2	0	0	0	0	0	0	2.21	2.22	1	1	0	1200	1200	0
3/27/2024 10:00	67303	WYOM_T2	0	0	0	0	0	0	-0.22	-0.26	0	0	0	0	0	0
3/27/2024 10:00	57304	MOAL_T2	0	0	0	0	0	0	-0.46	-0.35	0	0	0	0	0	0
3/27/2024 10:00	29402	BELT_T1	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
3/27/2024 10:00	67203	TEHI_T1	23	27	4	0.23	0.3	0.07	2.74	2.68	2	2	0	1200	1200	0
3/27/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	-0.24	-0.29	0	0	0	0	0	0
3/27/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
3/27/2024 10:00	46203	DANV_T2	103	99	-4	0.38	0.41	0.03	0	0	0	0	0	0	0	0
3/27/2024 10:00	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
3/27/2024 10:00	56802	BENV_T2	10	68	58	0.11	0.17	0.06	-1.3	-1.32	0	0	0	0	0	0
3/27/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
3/27/2024 10:00	45902	AUBU_T1	1	0	-1	0.4	0	-0.4	-0.39	-0.52	1	1	0	600	600	0
3/27/2024 10:00	10801	CHHI_T1	0	0	0	0	0	0	-1.77	-1.65	2	2	0	1800	1800	0
3/27/2024 10:00	53902	HALI_T2	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
3/27/2024 10:00	53903	HALI_T2	2	2	0	1	0.8	-0.2	-0.14	-0.15	0	0	0	0	0	0
3/27/2024 10:00	45602	WOOL_T1	2	2	0	0.45	0.3	-0.15	0.95	0.72	0	0	0	0	0	0
3/27/2024 10:00	55002	NEWP_T1	5	6	1	0.36	0.42	0.06	-0.75	-0.72	0	0	0	0	0	0
3/27/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.97	-0.94	3	3	0	2400	2400	0
3/27/2024 10:00	67201	TEHI_T1	4	18	14	0.63	0.18	-0.45	0	0	0	0	0	0	0	0
3/27/2024 10:00	53901	HALI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/27/2024 10:00	40502	CRES_T2	4	2	-2	0.15	0.2	0.05	-0.21	-0.15	0	0	0	0	0	0
3/27/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	-0.49	-0.49	1	1	0	600	600	0
3/27/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
3/27/2024 10:01	52404	GRPA_T2	0	1	1	0	7	7	0	0	0	0	0	0	0	0
3/27/2024 10:01	52402	GRPA_T2	2	2	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
3/27/2024 10:01	52403	GRPA_T2	1	1	0	0.2	0	-0.2	0.06	0.05	0	0	0	0	0	0
3/27/2024 10:05	59101	WALK_T2	0	0	0	0	0	0	1.7	1.86	0	0	0	0	0	0
3/27/2024 10:06	16302	ALPA_T2	0	0	0	0	0	0	-0.62	-0.53	0	0	0	0	0	0
3/27/2024 10:08	67201	TEHI_T1	4	18	14	0.63	0.18	-0.45	0.06	0.11	2	2	0	1500	1500	0
3/27/2024 10:08	53802	MBRG_T2	0	0	0	0	0	0	0.86	0.89	0	0	0	0	0	0
3/27/2024 10:08	16302	ALPA_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
3/27/2024 10:08	46203	DANV_T2	103	99	-4	0.38	0.41	0.03	-1.05	-1.05	0	0	0	0	0	0
3/27/2024 10:08	59101	WALK_T2	0	0	0	0	0	0	1.86	1.59	0	0	0	0	0	0
3/27/2024 10:08	67203	TEHI_T1	23	27	4	0.23	0.3	0.07	0	0	0	0	0	0	0	0
3/27/2024 10:08	67402	WAKE_T2	0	0	0	0	0	0	0.16	0.16	1	1	0	600	600	0
3/27/2024 10:09	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 10:09	56802	BENV_T2	10	68	58	0.11	0.17	0.06	-1.32	-1.36	0	0	0	0	0	0
3/27/2024 10:09	56801	BENV_T1	6	10	4	0.27	0.37	0.1	-0.77	-0.79	1	1	0	600	600	0
3/27/2024 10:09	16302	ALPA_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
3/27/2024 10:10	16302	ALPA_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
3/27/2024 10:10	10805	CHHI_T2	11	13	2	2.1	2.94	0.84	-0.38	-0.44	1	1	0	600	600	0
3/27/2024 10:10	56802	BENV_T2	10	68	58	0.11	0.17	0.06	-1.32	-1.36	0	0	0	0	0	0
3/27/2024 10:10	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 10:11	56801	BENV_T1	6	10	4	0.27	0.37	0.1	-0.77	-0.79	1	1	0	600	600	0
3/27/2024 10:11	24902	WHHA_T1	3	34	31	1.73	0.98	-0.75	0	0	0	0	0	0	0	0
3/27/2024 10:11	56802	BENV_T2	10	68	58	0.11	0.17	0.06	-1.32	-1.36	0	0	0	0	0	0
3/27/2024 10:11	46203	DANV_T2	103	99	-4	0.38	0.41	0.03	-1.05	-1.05	0	0	0	0	0	0
3/27/2024 10:12	28604	BLYT_T2	0	0	0	0	0	0	-1.5	-1.52	0	0	0	0	0	0
3/27/2024 10:13	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 10:14	52404	GRPA_T2	0	1	1	0	7	7	0.77	0.68	0	0	0	0	0	0
3/27/2024 10:14	24902	WHHA_T1	3	34	31	1.73	0.98	-0.75	0	0	0	0	0	0	0	0
3/27/2024 10:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 10:14	52403	GRPA_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/27/2024 10:14	52402	GRPA_T2	2	2	0	1.9	1.8	-0.1	-0.93	-0.92	0	0	0	0	0	0
3/27/2024 10:14	64305	LINC_T1	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
3/27/2024 10:15	47001	HUGH_T2	0	0	0	0	0	0	-0.8	-0.75	0	0	0	0	0	0
3/27/2024 10:15	65001	NEFF_T2	0	0	0	0	0	0	-0.66	-0.6	1	1	0	1200	1200	0
3/27/2024 10:15	57303	MOAL_T2	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
3/27/2024 10:15	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/27/2024 10:15	52403	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/27/2024 10:15	43202	MVIL_T2	7	29	22	0.13	0.18	0.05	-0.56	-0.63	0	0	0	0	0	0
3/27/2024 10:15	52402	GRPA_T2	2	2	0	1.55	1.8	0.25	-0.93	-0.92	0	0	0	0	0	0
3/27/2024 10:15	57304	MOAL_T2	0	0	0	0	0	0	-0.35	-0.39	0	0	0	0	0	0
3/27/2024 10:15	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 10:16	43202	MVIL_T2	7	29	22	0.13	0.18	0.05	-0.56	-0.63	0	0	0	0	0	0
3/27/2024 10:16	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/27/2024 10:16	40601	PIGR_T1	8	10	2	0.14	0.14	0	0	0	0	0	0	0	0	0
3/27/2024 10:16	52404	GRPA_T2	0	0	0	0	0	0	0.77	0.68	0	0	0	0	0	0
3/27/2024 10:16	52403	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/27/2024 10:16	40602	PIGR_T1	0	0	0	0	0	0	-2.62	-2.66	2	2	0	1200	1200	0
3/27/2024 10:16	52402	GRPA_T2	2	2	0	1.55	1.8	0.25	0	0	0	0	0	0	0	0
3/27/2024 10:17	64801	MONE_T2	9	14	5	0.27	0.29	0.02	0	0	0	0	0	0	0	0
3/27/2024 10:17	64802	MONE_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
3/27/2024 10:19	41902	REED_T1	7	5	-2	1.01	0.3	-0.71	1.13	1.08	0	0	0	0	0	0
3/27/2024 10:19	41901	REED_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/27/2024 10:19	43202	MVIL_T2	7	29	22	0.13	0.18	0.05	-0.56	-0.63	0	0	0	0	0	0
3/27/2024 10:21	20401	ASHF_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/27/2024 10:21	49803	UNIV_T1	0	0	0	0	0	0	-1.13	-1.13	0	0	0	0	0	0
3/27/2024 10:21	20403	ASHF_T2	2	0	-2	0.1	0	-0.1	0.05	0.08	0	0	0	0	0	0
3/27/2024 10:21	44301	BEAV_T2	1	1	0	0.9	0.4	-0.5	0.81	0.86	2	2	0	1500	1500	0
3/27/2024 10:21	67605	WARW_T1	4	7	3	0.25	0.3	0.05	-0.99	-0.98	0	0	0	0	0	0
3/27/2024 10:24	20403	ASHF_T2	2	0	-2	0.1	0	-0.1	0.08	0.06	0	0	0	0	0	0
3/27/2024 10:24	67605	WARW_T1	4	7	3	0.25	0.3	0.05	-0.98	-1.02	0	0	0	0	0	0
3/27/2024 10:24	20401	ASHF_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/27/2024 10:25	46203	DANV_T2	79	139	60	0.29	0.42	0.13	-1.05	-1.05	0	0	0	0	0	0
3/27/2024 10:25	20401	ASHF_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/27/2024 10:25	44301	BEAV_T2	1	1	0	0.9	0.4	-0.5	0.86	0.75	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/27/2024 10:25	67605	WARW_T1	4	7	3	0.25	0.3	0.05	-0.98	-1.02	0	0	0	0	0	0
3/27/2024 10:25	20403	ASHF_T2	2	0	-2	0.1	0	-0.1	0.08	0.06	0	0	0	0	0	0
3/27/2024 10:26	45501	DERR_T2	0	0	0	0	0	0	0.69	0.88	2	2	0	1800	1800	0
3/27/2024 10:26	40602	PIGR_T1	0	0	0	0	0	0	-1.33	-1.34	1	1	0	600	600	0
3/27/2024 10:26	40601	PIGR_T1	8	10	2	0.14	0.14	0	0	0	0	0	0	0	0	0
3/27/2024 10:30	64204	KINZ_T1	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
3/27/2024 10:30	25402	LAHA_T2	0	0	0	0	0	0	-0.77	-0.81	0	0	0	0	0	0
3/27/2024 10:30	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/27/2024 10:30	64203	KINZ_T1	0	0	0	0	0	0	0.86	0.98	1	1	0	600	600	0
3/27/2024 10:34	43103	SMIL_T2	16	16	0	0.91	0.59	-0.32	0	0	0	0	0	0	0	0
3/27/2024 10:34	43104	SMIL_T2	0	0	0	0	0	0	-0.82	-0.82	1	1	0	300	300	0
3/27/2024 10:34	43102	SMIL_T2	6	6	0	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
3/27/2024 10:34	43108	SMIL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/27/2024 10:34	43105	SMIL_T2	14	12	-2	0.24	0.25	0.01	0	0	0	0	0	0	0	0
3/27/2024 10:35	57403	SPAN_T1	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
3/27/2024 10:35	57401	SPAN_T1	2	1	-1	0.15	0.1	-0.05	-1.87	-1.81	2	2	0	1200	1200	0
3/27/2024 10:35	56501	ROCK_T2	6	4	-2	0.2	0.15	-0.05	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 10:35	55002	NEWP_T1	6	6	0	0.37	0.43	0.06	-0.24	-0.26	0	0	0	0	0	0
3/27/2024 10:36	57401	SPAN_T1	2	1	-1	0.15	0.1	-0.05	-0.94	-0.91	1	1	0	600	600	0
3/27/2024 10:36	16302	ALPA_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
3/27/2024 10:36	57403	SPAN_T1	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
3/27/2024 10:37	56501	ROCK_T2	6	4	-2	0.2	0.15	-0.05	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 10:37	57403	SPAN_T1	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
3/27/2024 10:37	57401	SPAN_T1	2	1	-1	0.15	0.1	-0.05	-0.94	-0.91	1	1	0	600	600	0
3/27/2024 10:40	45501	DERR_T2	0	0	0	0	0	0	0.88	0.97	2	2	0	1800	1800	0
3/27/2024 10:45	50105	HARR_T3	7	7	0	6.69	6.44	-0.25	0	0	0	0	0	0	0	0
3/27/2024 10:45	50201	HARR_T3	2	2	0	4.85	5	0.15	0	0	0	0	0	0	0	0
3/27/2024 10:45	50103	HARR_T3	2	2	0	1	1.1	0.1	-1.05	-1.04	1	1	0	1200	1200	0
3/27/2024 10:46	50201	HARR_T3	2	2	0	4.85	5	0.15	0	0	0	0	0	0	0	0
3/27/2024 10:46	50105	HARR_T3	7	7	0	6.69	6.44	-0.25	0	0	0	0	0	0	0	0
3/27/2024 10:46	50103	HARR_T3	2	2	0	1	1.1	0.1	-1.05	-1.04	1	1	0	1200	1200	0
3/27/2024 10:47	46801	HEPB_T2	2	2	0	0.25	0.45	0.2	0.62	0.62	0	0	0	0	0	0
3/27/2024 10:47	44601	SALE_T2	0	0	0	0	0	0	0.47	0.29	1	1	0	600	600	0
3/27/2024 10:48	13302	ORVI_T2	0	0	0	0	0	0	1.44	1.31	0	0	0	0	0	0
3/27/2024 10:48	44601	SALE_T2	0	0	0	0	0	0	0.47	0.29	1	1	0	600	600	0
3/27/2024 10:51	26001	WDAM_T1	0	0	0	0	0	0	-0.78	-0.74	0	0	0	0	0	0
3/27/2024 10:51	42201	SHEN_T2	0	0	0	0	0	0	0.04	0	1	1	0	600	600	0
3/27/2024 10:52	60803	BUCK_T1	0	0	0	0	0	0	-0.55	-0.56	1	1	0	600	600	0
3/27/2024 10:53	28604	BLYT_T2	0	0	0	0	0	0	-1.52	-1.53	0	0	0	0	0	0
3/27/2024 10:53	58003	WCAR_T1	1	1	0	1.5	1.7	0.2	0.71	0.71	0	0	0	0	0	0
3/27/2024 10:53	60803	BUCK_T1	0	0	0	0	0	0	-0.56	-0.54	1	1	0	600	600	0
3/27/2024 10:53	58001	WCAR_T1	3	4	1	0.77	0.75	-0.02	0	0	0	0	0	0	0	0
3/27/2024 10:53	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 10:53	28602	BLYT_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 10:53	27502	WEIS_T2	0	0	0	0	0	0	-0.58	-0.55	0	0	0	0	0	0
3/27/2024 10:54	58001	WCAR_T1	3	4	1	0.77	0.75	-0.02	0	0	0	0	0	0	0	0
3/27/2024 10:54	58003	WCAR_T1	1	1	0	1.5	1.7	0.2	0.71	0.71	0	0	0	0	0	0
3/27/2024 10:55	61102	BERK_T5	0	0	0	0	0	0	0.66	1.01	1	1	0	300	300	0
3/27/2024 10:55	45501	DERR_T2	0	0	0	0	0	0	0.97	0.84	2	2	0	1800	1800	0
3/27/2024 10:55	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 10:56	61102	BERK_T5	0	0	0	0	0	0	1.31	2.03	2	2	0	600	600	0
3/27/2024 10:56	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 10:56	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 10:56	45501	DERR_T2	0	0	0	0	0	0	0.97	0.84	2	2	0	1800	1800	0
3/27/2024 10:56	56802	BENV_T2	19	128	109	0.14	0.24	0.1	-2.72	-2.67	0	0	0	0	0	0
3/27/2024 10:56	60803	BUCK_T1	0	0	0	0	0	0	-0.56	-0.54	1	1	0	600	600	0
3/27/2024 10:57	66504	SMAN_T2	0	0	0	0	0	0	-0.87	-0.65	0	0	0	0	0	0
3/27/2024 10:57	61102	BERK_T5	0	0	0	0	0	0	1.31	2.03	2	2	0	600	600	0
3/27/2024 11:01	45702	LIND_T2	1	0	-1	0.4	0	-0.4	-0.36	-0.44	0	0	0	0	0	0
3/27/2024 11:02	61102	BERK_T5	0	0	0	0	0	0	0.66	1.01	1	1	0	300	300	0
3/27/2024 11:02	58401	MORO_T1	0	0	0	0	0	0	-0.99	-0.98	1	1	0	600	600	0
3/27/2024 11:02	41902	REED_T1	0	0	0	0	0	0	1.12	1.08	0	0	0	0	0	0
3/27/2024 11:02	41901	REED_T1	7	1	-6	0.19	0.1	-0.09	0	0	0	0	0	0	0	0
3/27/2024 11:03	41901	REED_T1	7	1	-6	0.19	0.1	-0.09	0	0	0	0	0	0	0	0
3/27/2024 11:03	41902	REED_T1	0	0	0	0	0	0	1.12	1.08	0	0	0	0	0	0
3/27/2024 11:04	66703	STRA_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
3/27/2024 11:06	49803	UNIV_T1	0	0	0	0	0	0	-1.15	-1.12	0	0	0	0	0	0
3/27/2024 11:06	41901	REED_T1	7	1	-6	0.19	0.1	-0.09	0	0	0	0	0	0	0	0
3/27/2024 11:06	49804	UNIV_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/27/2024 11:06	41902	REED_T1	0	0	0	0	0	0	1.12	1.08	0	0	0	0	0	0
3/27/2024 11:07	45602	WOOL_T1	1	1	0	0.2	0.3	0.1	0.48	0.44	0	0	0	0	0	0
3/27/2024 11:07	55105	WERT_T1	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
3/27/2024 11:08	57403	SPAN_T1	6	9	3	0.13	0.21	0.08	0.1	0.05	0	0	0	0	0	0
3/27/2024 11:08	57401	SPAN_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
3/27/2024 11:08	56802	BENV_T2	104	141	37	0.2	0.26	0.06	-4.01	-4	0	0	0	0	0	0
3/27/2024 11:08	28604	BLYT_T2	0	0	0	0	0	0	-1.53	-1.53	0	0	0	0	0	0
3/27/2024 11:08	28602	BLYT_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 11:09	56802	BENV_T2	104	141	37	0.2	0.26	0.06	-1.34	-1.33	0	0	0	0	0	0
3/27/2024 11:09	45602	WOOL_T1	1	1	0	0.2	0.3	0.1	0.88	0.9	0	0	0	0	0	0
3/27/2024 11:12	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 11:12	45602	WOOL_T1	1	1	0	0.2	0.3	0.1	0.44	0.45	0	0	0	0	0	0
3/27/2024 11:13	61102	BERK_T5	0	0	0	0	0	0	1.01	1.06	1	1	0	300	300	0
3/27/2024 11:14	59301	MCAL_T1	2	2	0	0.65	0.65	0	-1.61	-1.65	1	1	0	600	600	0
3/27/2024 11:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 11:14	47201	FAXO_T2	0	0	0	0	0	0	-1.02	-1.02	0	0	0	0	0	0
3/27/2024 11:14	45602	WOOL_T1	1	1	0	0.2	0.3	0.1	0.44	0.45	0	0	0	0	0	0
3/27/2024 11:14	59302	MCAL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/27/2024 11:16	52501	PROG_T1	0	0	0	0	0	0	0.42	0.44	1	1	0	300	300	0
3/27/2024 11:16	56501	ROCK_T2	5	11	6	0.22	0.2	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 11:18	54206	PENN_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
3/27/2024 11:18	61102	BERK_T5	0	0	0	0	0	0	1.01	1.06	1	1	0	300	300	0
3/27/2024 11:18	64801	MONE_T2	6	15	9	0.3	0.29	-0.01	-0.3	-0.32	0	0	0	0	0	0
3/27/2024 11:19	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 11:19	42903	MIDD_T2	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
3/27/2024 11:19	42902	MIDD_T2	1	1	0	0.4	1	0.6	-0.77	-0.94	1	1	0	600	600	0
3/27/2024 11:20	66703	STRA_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
3/27/2024 11:22	44301	BEAV_T2	0	0	0	0	0	0	0.58	0.71	2	2	0	1500	1500	0
3/27/2024 11:22	52501	PROG_T1	0	0	0	0	0	0	0.42	0.44	1	1	0	300	300	0
3/27/2024 11:23	44301	BEAV_T2	0	0	0	0	0	0	0.71	0.62	2	2	0	1500	1500	0
3/27/2024 11:23	45602	WOOL_T1	1	2	1	0.2	0.25	0.05	0.45	0.44	0	0	0	0	0	0
3/27/2024 11:24	56501	ROCK_T2	5	11	6	0.22	0.2	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 11:25	45602	WOOL_T1	1	2	1	0.2	0.25	0.05	0.45	0.44	0	0	0	0	0	0
3/27/2024 11:25	56501	ROCK_T2	5	11	6	0.22	0.2	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 11:27	53903	HALI_T2	2	2	0	0.9	1.25	0.35	-0.19	-0.15	0	0	0	0	0	0
3/27/2024 11:27	53901	HALI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/27/2024 11:27	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
3/27/2024 11:27	56501	ROCK_T2	5	11	6	0.22	0.2	-0.02	-0.02	-0.02	0	0	0	0	0	0
3/27/2024 11:28	53903	HALI_T2	2	2	0	0.9	1.25	0.35	-0.19	-0.15	0	0	0	0	0	0
3/27/2024 11:28	53901	HALI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/27/2024 11:28	56501	ROCK_T2	5	11	6	0.22	0.2	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 11:28	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
3/27/2024 11:28	45602	WOOL_T1	1	2	1	0.2	0.25	0.05	0.45	0.44	0	0	0	0	0	0
3/27/2024 11:29	53901	HALI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/27/2024 11:29	53903	HALI_T2	2	2	0	0.9	1.25	0.35	-0.19	-0.15	0	0	0	0	0	0
3/27/2024 11:29	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
3/27/2024 11:29	64305	LINC_T1	0	0	0	0	0	0	-0.17	-0.27	0	0	0	0	0	0
3/27/2024 11:30	45602	WOOL_T1	1	2	1	0.3	0.35	0.05	0.45	0.44	0	0	0	0	0	0
3/27/2024 11:30	64702	LITI_T2	0	0	0	0	0	0	-0.83	-0.79	0	0	0	0	0	0
3/27/2024 11:30	64303	LINC_T1	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
3/27/2024 11:32	64702	LITI_T2	0	0	0	0	0	0	-0.83	-0.79	0	0	0	0	0	0
3/27/2024 11:33	58402	MORO_T1	0	0	0	0	0	0	-0.98	-1.03	3	3	0	2400	2400	0
3/27/2024 11:34	59202	THOM_T1	0	16	16	0	0.14	0.14	0	0	0	0	0	0	0	0
3/27/2024 11:34	67001	STHI_T2	261	416	155	0.15	0.23	0.08	0	0	0	0	0	0	0	0
3/27/2024 11:34	64305	LINC_T1	0	0	0	0	0	0	-0.17	-0.27	0	0	0	0	0	0
3/27/2024 11:34	67002	STHI_T2	11	112	101	0.14	0.15	0.01	1.82	1.83	0	0	0	0	0	0
3/27/2024 11:34	17002	RIRO_T2	39	98	59	0.17	0.19	0.02	0.67	0.68	0	0	0	0	0	0
3/27/2024 11:34	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.02	1	1	0	600	600	0
3/27/2024 11:34	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.77	1	1	0	900	900	0
3/27/2024 11:34	49803	UNIV_T1	0	0	0	0	0	0	-1.12	-1.14	0	0	0	0	0	0
3/27/2024 11:34	58402	MORO_T1	0	0	0	0	0	0	-1.96	-2.05	6	6	0	4800	4800	0
3/27/2024 11:37	43102	SMIL_T2	5	5	0	0.18	0.22	0.04	0	0	0	0	0	0	0	0
3/27/2024 11:37	43103	SMIL_T2	4	12	8	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
3/27/2024 11:37	43104	SMIL_T2	0	0	0	0	0	0	-0.79	-0.79	1	1	0	300	300	0
3/27/2024 11:37	49803	UNIV_T1	0	0	0	0	0	0	-1.12	-1.14	0	0	0	0	0	0
3/27/2024 11:37	67002	STHI_T2	11	112	101	0.14	0.15	0.01	0.61	0.61	0	0	0	0	0	0
3/27/2024 11:37	67001	STHI_T2	261	416	155	0.15	0.23	0.08	0	0	0	0	0	0	0	0
3/27/2024 11:37	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/27/2024 11:38	20403	ASHF_T2	2	0	-2	0.2	0	-0.2	0.16	0.11	0	0	0	0	0	0
3/27/2024 11:38	44301	BEAV_T2	0	0	0	0	0	0	1.25	1.23	4	4	0	3000	3000	0
3/27/2024 11:38	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 11:38	57401	SPAN_T1	2	2	0	0.5	0.7	0.2	-1.17	-1.14	1	1	0	600	600	0
3/27/2024 11:38	67001	STHI_T2	261	416	155	0.15	0.23	0.08	0	0	0	0	0	0	0	0
3/27/2024 11:38	57403	SPAN_T1	9	38	29	0.21	0.22	0.01	0	0	0	0	0	0	0	0
3/27/2024 11:38	67002	STHI_T2	11	112	101	0.14	0.15	0.01	1.83	1.83	0	0	0	0	0	0
3/27/2024 11:39	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.74	1	1	0	900	900	0
3/27/2024 11:39	57403	SPAN_T1	9	38	29	0.21	0.22	0.01	0.02	0.03	0	0	0	0	0	0
3/27/2024 11:39	57401	SPAN_T1	2	2	0	0.5	0.7	0.2	-3.52	-3.42	3	3	0	1800	1800	0
3/27/2024 11:39	42701	AUGU_T1	1	1	0	0.7	0.5	-0.2	0	0	4	4	0	3600	3600	0
3/27/2024 11:40	20403	ASHF_T2	2	0	-2	0.2	0	-0.2	0.08	0.05	0	0	0	0	0	0
3/27/2024 11:40	44301	BEAV_T2	0	0	0	0	0	0	0.62	0.61	2	2	0	1500	1500	0
3/27/2024 11:40	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 11:40	57401	SPAN_T1	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/27/2024 11:40	57403	SPAN_T1	9	38	29	0.21	0.22	0.01	0.03	0.05	0	0	0	0	0	0
3/27/2024 11:40	42701	AUGU_T1	1	1	0	0.7	0.5	-0.2	0	0	2	2	0	1800	1800	0
3/27/2024 11:40	28604	BLYT_T2	0	0	0	0	0	0	-1.51	-1.55	0	0	0	0	0	0
3/27/2024 11:41	28604	BLYT_T2	0	0	0	0	0	0	-1.51	-1.55	0	0	0	0	0	0
3/27/2024 11:41	42701	AUGU_T1	1	1	0	0.7	0.5	-0.2	0	0	2	2	0	1800	1800	0
3/27/2024 11:43	64702	LITI_T2	0	0	0	0	0	0	-0.79	-0.67	0	0	0	0	0	0
3/27/2024 11:44	47001	HUGH_T2	0	0	0	0	0	0	-0.81	-0.87	0	0	0	0	0	0
3/27/2024 11:45	64702	LITI_T2	0	0	0	0	0	0	-0.79	-0.67	0	0	0	0	0	0
3/27/2024 11:48	41902	REED_T1	0	2	2	0	0	0	1.11	1.08	0	0	0	0	0	0
3/27/2024 11:49	67001	STHI_T2	312	480	168	0.19	0.27	0.08	0	0	0	0	0	0	0	0
3/27/2024 11:49	58402	MORO_T1	0	0	0	0	0	0	-1.03	-1.07	3	3	0	2400	2400	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/27/2024 11:49	59302	MCAL_T1	1	1	0	0.2	0.2	0	-0.17	-0.17	1	1	0	600	600	0
3/27/2024 11:49	41902	REED_T1	0	2	2	0	0	0	1.11	1.08	0	0	0	0	0	0
3/27/2024 11:49	67002	STHI_T2	41	252	211	0.13	0.17	0.04	3.04	3.04	0	0	0	0	0	0
3/27/2024 11:49	59301	MCAL_T1	3	4	1	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
3/27/2024 11:50	67002	STHI_T2	41	252	211	0.13	0.17	0.04	1.22	1.22	0	0	0	0	0	0
3/27/2024 11:50	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.07	1	1	0	600	600	0
3/27/2024 11:50	17002	RIRO_T2	34	117	83	0.19	0.18	-0.01	0.68	0.63	0	0	0	0	0	0
3/27/2024 11:50	67001	STHI_T2	312	480	168	0.19	0.27	0.08	0	0	0	0	0	0	0	0
3/27/2024 11:50	58402	MORO_T1	0	0	0	0	0	0	-2.05	-2.15	6	6	0	4800	4800	0
3/27/2024 11:51	58001	WCAR_T1	4	4	0	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
3/27/2024 11:51	41902	REED_T1	0	2	2	0	0	0	1.11	1.08	0	0	0	0	0	0
3/27/2024 11:51	58003	WCAR_T1	6	18	12	0.4	0.27	-0.13	1.36	1.34	0	0	0	0	0	0
3/27/2024 11:51	45301	WBER_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/27/2024 11:51	42701	AUGU_T1	1	1	0	0.5	0.2	-0.3	0	0	2	2	0	1800	1800	0
3/27/2024 11:51	45303	WBER_T2	1	7	6	0.1	0.21	0.11	0.3	0.34	0	0	0	0	0	0
3/27/2024 11:53	45301	WBER_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/27/2024 11:53	53903	HALI_T2	2	2	0	1.25	1.3	0.05	-0.2	-0.14	0	0	0	0	0	0
3/27/2024 11:53	67502	WEWI_T2	0	1	1	0	0.1	0.1	-1.12	-1.28	1	1	0	900	900	0
3/27/2024 11:53	53901	HALI_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/27/2024 11:53	45303	WBER_T2	1	7	6	0.1	0.21	0.11	0.34	0.3	0	0	0	0	0	0
3/27/2024 11:53	53902	HALI_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
3/27/2024 11:54	67502	WEWI_T2	0	1	1	0	0.1	0.1	-1.12	-1.28	1	1	0	900	900	0
3/27/2024 11:55	42701	AUGU_T1	1	1	0	0.5	0.2	-0.3	0	0	4	4	0	3600	3600	0
3/27/2024 11:55	45301	WBER_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/27/2024 11:55	45303	WBER_T2	1	7	6	0.1	0.21	0.11	0.34	0.3	0	0	0	0	0	0
3/27/2024 11:56	42701	AUGU_T1	1	1	0	0.5	0.2	-0.3	0	0	2	2	0	1800	1800	0
3/27/2024 11:58	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/27/2024 11:58	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 11:58	54501	ENOL_T2	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
3/27/2024 12:00	47001	HUGH_T2	0	0	0	0	0	0	-0.87	-0.77	0	0	0	0	0	0
3/27/2024 12:00	64305	LINC_T1	0	0	0	0	0	0	-0.21	-0.26	0	0	0	0	0	0
3/27/2024 12:01	64303	LINC_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
3/27/2024 12:04	41902	REED_T1	2	0	-2	0.2	0	-0.2	1.08	1.06	0	0	0	0	0	0
3/27/2024 12:05	17002	RIRO_T2	93	102	9	0.19	0.17	-0.02	0.63	0.59	0	0	0	0	0	0
3/27/2024 12:05	67001	STHI_T2	413	464	51	0.23	0.27	0.04	0	0	0	0	0	0	0	0
3/27/2024 12:05	41902	REED_T1	2	0	-2	0.2	0	-0.2	1.08	1.06	0	0	0	0	0	0
3/27/2024 12:05	67002	STHI_T2	111	251	140	0.15	0.17	0.02	2.44	2.43	0	0	0	0	0	0
3/27/2024 12:05	64305	LINC_T1	0	0	0	0	0	0	-0.21	-0.26	0	0	0	0	0	0
3/27/2024 12:06	67001	STHI_T2	413	464	51	0.23	0.27	0.04	0	0	0	0	0	0	0	0
3/27/2024 12:06	59201	THOM_T1	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
3/27/2024 12:06	59202	THOM_T1	16	73	57	0.14	0.24	0.1	0	0	0	0	0	0	0	0
3/27/2024 12:06	67002	STHI_T2	111	251	140	0.15	0.17	0.02	0.61	0.61	0	0	0	0	0	0
3/27/2024 12:06	41902	REED_T1	2	0	-2	0.2	0	-0.2	1.08	1.06	0	0	0	0	0	0
3/27/2024 12:06	49803	UNIV_T1	0	0	0	0	0	0	-1.1	-1.11	0	0	0	0	0	0
3/27/2024 12:06	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 12:06	20403	ASHF_T2	0	18	18	0	0.19	0.19	0.05	0.09	0	0	0	0	0	0
3/27/2024 12:07	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	4	4	0	3600	3600	0
3/27/2024 12:08	44301	BEAV_T2	0	0	0	0	0	0	-0.04	-0.15	2	2	0	1500	1500	0
3/27/2024 12:09	49803	UNIV_T1	0	0	0	0	0	0	-1.11	-1.17	0	0	0	0	0	0
3/27/2024 12:09	67002	STHI_T2	111	251	140	0.15	0.17	0.02	1.21	1.23	0	0	0	0	0	0
3/27/2024 12:09	20403	ASHF_T2	0	18	18	0	0.19	0.19	0.09	0.04	0	0	0	0	0	0
3/27/2024 12:09	67001	STHI_T2	413	464	51	0.23	0.27	0.04	0	0	0	0	0	0	0	0
3/27/2024 12:09	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 12:10	67002	STHI_T2	111	251	140	0.15	0.17	0.02	1.21	1.23	0	0	0	0	0	0
3/27/2024 12:10	44301	BEAV_T2	0	0	0	0	0	0	-0.04	-0.15	2	2	0	1500	1500	0
3/27/2024 12:10	20403	ASHF_T2	0	18	18	0	0.19	0.19	0.09	0.04	0	0	0	0	0	0
3/27/2024 12:10	67001	STHI_T2	413	464	51	0.23	0.27	0.04	0	0	0	0	0	0	0	0
3/27/2024 12:11	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	4	4	0	3600	3600	0
3/27/2024 12:11	44301	BEAV_T2	0	0	0	0	0	0	-0.04	-0.15	2	2	0	1500	1500	0
3/27/2024 12:12	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/27/2024 12:12	28604	BLYT_T2	0	0	0	0	0	0	-1.56	-1.56	0	0	0	0	0	0
3/27/2024 12:12	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
3/27/2024 12:12	54504	ENOL_T2	0	0	0	0	0	0	-1	-1	1	1	0	600	600	0
3/27/2024 12:13	28604	BLYT_T2	0	0	0	0	0	0	-1.56	-1.56	0	0	0	0	0	0
3/27/2024 12:15	45002	LIME_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 12:15	45001	LIME_2	25	26	1	0.32	0.32	0	0	0	0	0	0	0	0	0
3/27/2024 12:15	45003	LIME_2	1	1	0	3.7	3.4	-0.3	0	0	0	0	0	0	0	0
3/27/2024 12:16	47001	HUGH_T2	0	0	0	0	0	0	-0.77	-0.82	0	0	0	0	0	0
3/27/2024 12:16	64305	LINC_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
3/27/2024 12:17	45001	LIME_2	25	26	1	0.32	0.32	0	0	0	0	0	0	0	0	0
3/27/2024 12:17	45003	LIME_2	1	1	0	3.7	3.4	-0.3	0	0	0	0	0	0	0	0
3/27/2024 12:17	45002	LIME_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 12:17	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
3/27/2024 12:18	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.06	1	1	0	600	600	0
3/27/2024 12:20	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.06	1	1	0	600	600	0
3/27/2024 12:20	58402	MORO_T1	0	0	0	0	0	0	-1.08	-1.06	3	3	0	2400	2400	0
3/27/2024 12:21	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.06	1	1	0	600	600	0
3/27/2024 12:21	64305	LINC_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
3/27/2024 12:21	58402	MORO_T1	0	0	0	0	0	0	-2.17	-2.12	6	6	0	4800	4800	0
3/27/2024 12:23	46001	BERW_T1	0	0	0	0	0	0	0.91	0.83	0	0	0	0	0	0
3/27/2024 12:25	46001	BERW_T1	0	0	0	0	0	0	0.91	0.83	0	0	0	0	0	0
3/27/2024 12:27	44302	BEAV_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
3/27/2024 12:27	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 12:28	46001	BERW_T1	0	0	0	0	0	0	0.91	0.83	0	0	0	0	0	0
3/27/2024 12:32	64305	LINC_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
3/27/2024 12:33	13704	SCHN_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
3/27/2024 12:36	58401	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 12:36	58402	MORO_T1	0	0	0	0	0	0	-1.06	-1.08	3	3	0	2400	2400	0
3/27/2024 12:37	58401	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 12:37	64305	LINC_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
3/27/2024 12:37	13704	SCHN_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
3/27/2024 12:37	58402	MORO_T1	0	0	0	0	0	0	-1.06	-1.08	3	3	0	2400	2400	0
3/27/2024 12:40	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 12:41	13704	SCHN_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
3/27/2024 12:42	53903	HALI_T2	2	2	0	1.25	1.2	-0.05	-0.18	-0.17	0	0	0	0	0	0
3/27/2024 12:42	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
3/27/2024 12:42	53901	HALI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/27/2024 12:43	53903	HALI_T2	2	2	0	1.25	1.2	-0.05	-0.18	-0.17	0	0	0	0	0	0
3/27/2024 12:43	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
3/27/2024 12:43	53901	HALI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/27/2024 12:46	53901	HALI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/27/2024 12:46	53903	HALI_T2	2	0	-2	1.15	1.2	0.05	-0.18	-0.17	0	0	0	0	0	0
3/27/2024 12:46	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
3/27/2024 12:53	40505	CRES_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
3/27/2024 12:54	40505	CRES_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
3/27/2024 12:56	41502	FAIR_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
3/27/2024 12:57	41502	FAIR_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
3/27/2024 12:58	40505	CRES_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
3/27/2024 13:08	44301	BEAV_T2	1	1	0	1.5	0.3	-1.2	0.71	0.7	2	2	0	1500	1500	0
3/27/2024 13:25	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/27/2024 13:25	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	-1.32	-1.34	1	1	0	600	600	0
3/27/2024 13:30	64305	LINC_T1	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
3/27/2024 13:34	13704	SCHN_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
3/27/2024 13:35	64305	LINC_T1	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
3/27/2024 13:36	13704	SCHN_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
3/27/2024 13:38	67502	WEWI_T2	1	1	0	8.6	8.5	-0.1	-1.16	-1.19	1	1	0	900	900	0
3/27/2024 13:39	67502	WEWI_T2	1	1	0	8.6	8.5	-0.1	-1.16	-1.19	1	1	0	900	900	0
3/27/2024 13:42	54505	ENOL_T2	1	1	0	1	1.1	0.1	-1.34	-1.36	1	1	0	600	600	0
3/27/2024 13:42	54503	ENOL_T2	0	0	0	0	0	0	-1.26	-1.31	1	1	0	600	600	0
3/27/2024 13:42	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/27/2024 13:43	54505	ENOL_T2	1	1	0	1	1.1	0.1	-2.68	-2.72	2	2	0	1200	1200	0
3/27/2024 13:43	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/27/2024 13:44	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/27/2024 13:44	54503	ENOL_T2	0	0	0	0	0	0	-1.26	-1.31	1	1	0	600	600	0
3/27/2024 13:44	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/27/2024 13:45	54505	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
3/27/2024 13:45	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/27/2024 13:45	54503	ENOL_T2	0	0	0	0	0	0	-1.26	-1.31	1	1	0	600	600	0
3/27/2024 13:46	64305	LINC_T1	0	0	0	0	0	0	-0.05	-0.02	0	0	0	0	0	0
3/27/2024 13:51	13704	SCHN_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
3/27/2024 13:51	64305	LINC_T1	0	0	0	0	0	0	-0.05	-0.02	0	0	0	0	0	0
3/27/2024 13:52	42802	SELI_T1	1	0	-1	0.3	0	-0.3	-0.81	-0.83	1	1	0	900	900	0
3/27/2024 13:52	42701	AUGU_T1	1	1	0	0.6	0.7	0.1	0	0	2	2	0	1800	1800	0
3/27/2024 13:53	42802	SELI_T1	1	0	-1	0.3	0	-0.3	-0.83	-0.84	1	1	0	900	900	0
3/27/2024 13:54	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 13:55	42701	AUGU_T1	1	1	0	0.6	0.7	0.1	0	0	2	2	0	1800	1800	0
3/27/2024 13:55	40505	CRES_T1	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
3/27/2024 13:56	40505	CRES_T1	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
3/27/2024 13:56	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 13:56	42701	AUGU_T1	1	1	0	0.6	0.7	0.1	0	0	2	2	0	1800	1800	0
3/27/2024 13:57	40505	CRES_T1	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
3/27/2024 14:01	64305	LINC_T1	0	0	0	0	0	0	-0.02	-0.14	0	0	0	0	0	0
3/27/2024 14:04	64305	LINC_T1	0	0	0	0	0	0	-0.02	-0.14	0	0	0	0	0	0
3/27/2024 14:05	67002	STHI_T2	247	296	49	0.18	0.19	0.01	2.27	2.3	0	0	0	0	0	0
3/27/2024 14:05	67001	STHI_T2	473	484	11	0.27	0.29	0.02	0	0	0	0	0	0	0	0
3/27/2024 14:06	67002	STHI_T2	247	296	49	0.18	0.19	0.01	1.14	1.15	0	0	0	0	0	0
3/27/2024 14:06	42701	AUGU_T1	1	1	0	0.7	0.4	-0.3	0	0	4	4	0	3600	3600	0
3/27/2024 14:06	17002	RIRO_T2	1	0	-1	0.2	0	-0.2	0.72	0.61	0	0	0	0	0	0
3/27/2024 14:06	67001	STHI_T2	473	484	11	0.27	0.29	0.02	0	0	0	0	0	0	0	0
3/27/2024 14:06	16302	ALPA_T2	0	0	0	0	0	0	0.64	0.67	0	0	0	0	0	0
3/27/2024 14:07	67002	STHI_T2	247	296	49	0.18	0.19	0.01	0.57	0.57	0	0	0	0	0	0
3/27/2024 14:07	49803	UNIV_T1	0	0	0	0	0	0	-1.13	-1.17	0	0	0	0	0	0
3/27/2024 14:07	49804	UNIV_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/27/2024 14:07	42701	AUGU_T1	1	1	0	0.7	0.4	-0.3	0	0	2	2	0	1800	1800	0
3/27/2024 14:07	67001	STHI_T2	473	484	11	0.27	0.29	0.02	0	0	0	0	0	0	0	0
3/27/2024 14:08	42701	AUGU_T1	1	1	0	0.7	0.4	-0.3	0	0	2	2	0	1800	1800	0
3/27/2024 14:08	16302	ALPA_T2	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
3/27/2024 14:09	16302	ALPA_T2	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
3/27/2024 14:09	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 14:10	52404	GRPA_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
3/27/2024 14:10	52403	GRPA_T2	0	1	1	0	0	0	0.04	0.04	0	0	0	0	0	0
3/27/2024 14:10	52401	GRPA_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/27/2024 14:10	56501	ROCK_T2	12	33	21	0.17	0.17	0	-0.02	-0.02	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/27/2024 14:10	52402	GRPA_T2	6	5	-1	1.23	1.32	0.09	0	0	0	0	0	0	0	0
3/27/2024 14:10	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 14:10	56802	BENV_T2	119	92	-27	0.23	0.19	-0.04	-1.35	-1.36	0	0	0	0	0	0
3/27/2024 14:11	56501	ROCK_T2	12	33	21	0.17	0.17	0	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 14:11	16302	ALPA_T2	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
3/27/2024 14:11	60803	BUCK_T1	0	0	0	0	0	0	-0.54	-0.54	1	1	0	600	600	0
3/27/2024 14:12	56501	ROCK_T2	12	33	21	0.17	0.17	0	-0.02	-0.02	0	0	0	0	0	0
3/27/2024 14:12	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 14:13	56501	ROCK_T2	12	33	21	0.17	0.17	0	-0.02	-0.02	0	0	0	0	0	0
3/27/2024 14:14	56501	ROCK_T2	12	33	21	0.17	0.17	0	0	0	0	0	0	0	0	0
3/27/2024 14:14	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
3/27/2024 14:15	54501	ENOL_T2	0	0	0	0	0	0	0.07	0.12	0	0	0	0	0	0
3/27/2024 14:15	54505	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/27/2024 14:15	64305	LINC_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
3/27/2024 14:15	25503	MADI_T1	26	82	56	0.11	0.18	0.07	-1.01	-1.03	0	0	0	0	0	0
3/27/2024 14:15	54502	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/27/2024 14:15	25501	MADI_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
3/27/2024 14:16	40101	HUNT_T2	0	0	0	0	0	0	-0.6	-0.44	0	0	0	0	0	0
3/27/2024 14:17	40101	HUNT_T2	0	0	0	0	0	0	-1.2	-0.89	0	0	0	0	0	0
3/27/2024 14:18	67605	WARW_T1	11	16	5	0.41	0.49	0.08	-1.04	-0.96	0	0	0	0	0	0
3/27/2024 14:18	41902	REED_T1	0	0	0	0	0	0	1.07	1.04	0	0	0	0	0	0
3/27/2024 14:18	41901	REED_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/27/2024 14:19	64305	LINC_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
3/27/2024 14:20	60803	BUCK_T1	0	0	0	0	0	0	-0.54	-0.54	1	1	0	600	600	0
3/27/2024 14:20	67605	WARW_T1	11	16	5	0.41	0.49	0.08	-1.04	-0.96	0	0	0	0	0	0
3/27/2024 14:21	67002	STHI_T2	269	311	42	0.18	0.21	0.03	1.15	1.13	0	0	0	0	0	0
3/27/2024 14:21	41902	REED_T1	0	0	0	0	0	0	1.07	1.04	0	0	0	0	0	0
3/27/2024 14:21	58402	MORO_T1	0	0	0	0	0	0	-1.02	-1.03	3	3	0	2400	2400	0
3/27/2024 14:21	67001	STHI_T2	438	558	120	0.28	0.3	0.02	0	0	0	0	0	0	0	0
3/27/2024 14:21	41901	REED_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/27/2024 14:22	41902	REED_T1	0	0	0	0	0	0	1.07	1.04	0	0	0	0	0	0
3/27/2024 14:22	58402	MORO_T1	0	0	0	0	0	0	-1.02	-1.03	3	3	0	2400	2400	0
3/27/2024 14:22	56802	BENV_T2	73	138	65	0.19	0.26	0.07	-2.7	-2.72	0	0	0	0	0	0
3/27/2024 14:22	42701	AUGU_T1	1	1	0	0.3	0.6	0.3	0	0	2	2	0	1800	1800	0
3/27/2024 14:22	67001	STHI_T2	438	558	120	0.28	0.3	0.02	0	0	0	0	0	0	0	0
3/27/2024 14:22	41901	REED_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/27/2024 14:22	67002	STHI_T2	269	311	42	0.18	0.21	0.03	1.15	1.13	0	0	0	0	0	0
3/27/2024 14:23	67002	STHI_T2	269	311	42	0.18	0.21	0.03	0.56	0.56	0	0	0	0	0	0
3/27/2024 14:23	42701	AUGU_T1	1	1	0	0.3	0.6	0.3	0	0	2	2	0	1800	1800	0
3/27/2024 14:23	56802	BENV_T2	73	138	65	0.19	0.26	0.07	-4.08	-4.02	0	0	0	0	0	0
3/27/2024 14:23	56801	BENV_T1	13	12	-1	0.68	0.64	-0.04	-0.8	-0.79	1	1	0	600	600	0
3/27/2024 14:23	67001	STHI_T2	438	558	120	0.28	0.3	0.02	0	0	0	0	0	0	0	0
3/27/2024 14:26	20403	ASHF_T2	0	0	0	0	0	0	0	0.06	0	0	0	0	0	0
3/27/2024 14:26	56802	BENV_T2	73	138	65	0.19	0.26	0.07	-1.36	-1.34	0	0	0	0	0	0
3/27/2024 14:27	56801	BENV_T1	13	12	-1	0.68	0.64	-0.04	-0.8	-0.79	1	1	0	600	600	0
3/27/2024 14:27	20403	ASHF_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
3/27/2024 14:27	56802	BENV_T2	73	138	65	0.19	0.26	0.07	-5.44	-5.37	0	0	0	0	0	0
3/27/2024 14:28	56802	BENV_T2	73	138	65	0.19	0.26	0.07	-2.72	-2.68	0	0	0	0	0	0
3/27/2024 14:30	42002	MNVL_T2	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
3/27/2024 14:30	42001	MNVL_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
3/27/2024 14:31	61102	BERK_T5	0	0	0	0	0	0	1.1	0.86	1	1	0	300	300	0
3/27/2024 14:33	46301	ROHR_T1	3	12	9	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
3/27/2024 14:33	46506	LOHA_T1	1	5	4	1.2	0.4	-0.8	0	0	0	0	0	0	0	0
3/27/2024 14:33	61102	BERK_T5	0	0	0	0	0	0	1.1	0.86	1	1	0	300	300	0
3/27/2024 14:33	46502	LOHA_T1	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
3/27/2024 14:33	58402	MORO_T1	0	0	0	0	0	0	-1.03	-1.11	3	3	0	2400	2400	0
3/27/2024 14:33	46501	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/27/2024 14:33	67605	WARW_T1	16	16	0	0.46	0.46	0	-0.96	-1.01	0	0	0	0	0	0
3/27/2024 14:33	46504	LOHA_T1	3	56	53	0.73	0.47	-0.26	0	0	0	0	0	0	0	0
3/27/2024 14:33	46302	ROHR_T1	4	4	0	2.3	2.43	0.13	0.13	0.13	0	0	0	0	0	0
3/27/2024 14:33	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
3/27/2024 14:34	42802	SELI_T1	0	0	0	0	0	0	-0.84	-0.83	1	1	0	900	900	0
3/27/2024 14:35	61102	BERK_T5	0	0	0	0	0	0	2.2	1.71	2	2	0	600	600	0
3/27/2024 14:35	67605	WARW_T1	16	16	0	0.46	0.46	0	-0.96	-1.01	0	0	0	0	0	0
3/27/2024 14:36	45402	WBLO_T2	0	2	2	0	0.2	0.2	-0.79	-0.89	0	0	0	0	0	0
3/27/2024 14:36	52501	PROG_T1	0	0	0	0	0	0	0.4	0.4	1	1	0	300	300	0
3/27/2024 14:36	57403	SPAN_T1	22	37	15	0.26	0.27	0.01	0	0	0	0	0	0	0	0
3/27/2024 14:36	57401	SPAN_T1	2	2	0	0.2	0.2	0	-1.11	-1.09	1	1	0	600	600	0
3/27/2024 14:37	57401	SPAN_T1	2	2	0	0.2	0.2	0	-2.22	-2.19	2	2	0	1200	1200	0
3/27/2024 14:37	67001	STHI_T2	459	562	103	0.29	0.3	0.01	0	0	0	0	0	0	0	0
3/27/2024 14:37	67002	STHI_T2	253	309	56	0.19	0.21	0.02	2.26	2.26	0	0	0	0	0	0
3/27/2024 14:37	57403	SPAN_T1	22	37	15	0.26	0.27	0.01	0	0	0	0	0	0	0	0
3/27/2024 14:37	26001	WDAM_T1	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
3/27/2024 14:37	58402	MORO_T1	0	0	0	0	0	0	-1.03	-1.11	3	3	0	2400	2400	0
3/27/2024 14:38	57403	SPAN_T1	22	37	15	0.26	0.27	0.01	0	0	0	0	0	0	0	0
3/27/2024 14:38	67002	STHI_T2	253	309	56	0.19	0.21	0.02	1.69	1.71	0	0	0	0	0	0
3/27/2024 14:38	67401	WAKE_T2	0	0	0	0	0	0	-1.11	-1.09	0	0	0	0	0	0
3/27/2024 14:38	57401	SPAN_T1	2	2	0	0.2	0.2	0	-1.09	-0.86	1	1	0	600	600	0
3/27/2024 14:38	67001	STHI_T2	459	562	103	0.29	0.3	0.01	0	0	0	0	0	0	0	0
3/27/2024 14:39	45402	WBLO_T2	0	2	2	0	0.2	0.2	-0.89	-0.84	0	0	0	0	0	0
3/27/2024 14:39	42802	SELI_T1	0	0	0	0	0	0	-0.83	-0.87	1	1	0	900	900	0
3/27/2024 14:39	57401	SPAN_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/27/2024 14:39	57403	SPAN_T1	22	37	15	0.26	0.27	0.01	0.05	0.05	0	0	0	0	0	0
3/27/2024 14:39	42201	SHEN_T2	0	0	0	0	0	0	0.03	0.01	1	1	0	600	600	0
3/27/2024 14:41	46004	BERW_T2	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
3/27/2024 14:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 14:41	40502	CRES_T2	4	6	2	0.1	0.13	0.03	-0.24	-0.25	0	0	0	0	0	0
3/27/2024 14:42	46301	ROHR_T1	3	12	9	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
3/27/2024 14:42	20403	ASHF_T2	0	3	3	0	0.2	0.2	0.09	0.17	0	0	0	0	0	0
3/27/2024 14:42	56501	ROCK_T2	11	21	10	0.2	0.18	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 14:42	46302	ROHR_T1	4	4	0	2.3	2.43	0.13	0.13	0.14	0	0	0	0	0	0
3/27/2024 14:43	60801	BUCK_T1	0	0	0	0	0	0	-0.46	-0.49	1	1	0	600	600	0
3/27/2024 14:44	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
3/27/2024 14:44	56501	ROCK_T2	11	21	10	0.2	0.18	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 14:46	42002	MNVL_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
3/27/2024 14:46	42001	MNVL_T2	0	4	4	0	0.13	0.13	-0.01	-0.07	0	0	0	0	0	0
3/27/2024 14:46	64305	LINC_T1	0	0	0	0	0	0	-0.07	-0.12	0	0	0	0	0	0
3/27/2024 14:47	64702	LITI_T2	0	0	0	0	0	0	-0.84	-0.71	0	0	0	0	0	0
3/27/2024 14:47	40903	JESH_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/27/2024 14:47	58402	MORO_T1	0	0	0	0	0	0	-1.11	-1.11	3	3	0	2400	2400	0
3/27/2024 14:47	40902	JESH_T1	5	20	15	0.18	0.26	0.08	-0.83	-0.86	0	0	0	0	0	0
3/27/2024 14:47	40901	JESH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/27/2024 14:48	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/27/2024 14:48	41901	REED_T1	3	4	1	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
3/27/2024 14:48	17002	RIRO_T2	3	1	-2	0.13	0.2	0.07	0.56	0.57	0	0	0	0	0	0
3/27/2024 14:48	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.76	1	1	0	900	900	0
3/27/2024 14:48	64702	LITI_T2	0	0	0	0	0	0	-0.84	-0.71	0	0	0	0	0	0
3/27/2024 14:48	41902	REED_T1	0	2	2	0	0	0	1.09	1.11	0	0	0	0	0	0
3/27/2024 14:48	55002	NEWP_T1	4	3	-1	0.75	0.43	-0.32	-0.23	-0.24	0	0	0	0	0	0
3/27/2024 14:49	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.76	1	1	0	900	900	0
3/27/2024 14:49	55002	NEWP_T1	4	3	-1	0.75	0.43	-0.32	-0.23	-0.24	0	0	0	0	0	0
3/27/2024 14:49	41901	REED_T1	3	4	1	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
3/27/2024 14:49	41902	REED_T1	0	2	2	0	0	0	1.09	1.11	0	0	0	0	0	0
3/27/2024 14:49	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/27/2024 14:50	42802	SELI_T1	0	1	1	0	0.2	0.2	-0.83	-0.87	1	1	0	900	900	0
3/27/2024 14:51	57401	SPAN_T1	2	2	0	0.2	0.3	0.1	-1.09	-0.86	1	1	0	600	600	0
3/27/2024 14:51	57403	SPAN_T1	37	22	-15	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
3/27/2024 14:51	42802	SELI_T1	0	1	1	0	0.2	0.2	-0.83	-0.87	1	1	0	900	900	0
3/27/2024 14:51	64305	LINC_T1	0	0	0	0	0	0	-0.07	-0.12	0	0	0	0	0	0
3/27/2024 14:52	41901	REED_T1	3	4	1	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
3/27/2024 14:52	41902	REED_T1	0	2	2	0	0	0	1.09	1.11	0	0	0	0	0	0
3/27/2024 14:53	10805	CHHI_T2	1	7	6	8.9	8.6	-0.3	-0.46	-0.45	1	1	0	600	600	0
3/27/2024 14:53	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.79	1	1	0	900	900	0
3/27/2024 14:54	10805	CHHI_T2	1	7	6	8.9	8.6	-0.3	-0.46	-0.45	1	1	0	600	600	0
3/27/2024 14:54	61102	BERK_T5	0	1	1	0	0.1	0.1	0.87	0.76	1	1	0	300	300	0
3/27/2024 14:55	28604	BLYT_T2	0	0	0	0	0	0	-1.55	-1.55	0	0	0	0	0	0
3/27/2024 14:57	46001	BERW_T1	0	0	0	0	0	0	0.96	1	0	0	0	0	0	0
3/27/2024 14:57	10801	CHHI_T1	0	0	0	0	0	0	-1.03	-1.02	1	1	0	900	900	0
3/27/2024 14:57	15704	TANN_T1	0	0	0	0	0	0	-1.17	-1.19	0	0	0	0	0	0
3/27/2024 14:57	15703	TANN_T2	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
3/27/2024 14:57	46004	BERW_T2	0	0	0	0	0	0	-0.3	-0.39	0	0	0	0	0	0
3/27/2024 14:58	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 14:58	63602	LETO_T1	0	0	0	0	0	0	-0.36	-0.42	0	0	0	0	0	0
3/27/2024 14:58	46001	BERW_T1	0	0	0	0	0	0	0.96	1	0	0	0	0	0	0
3/27/2024 14:59	46803	HEPB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/27/2024 14:59	46801	HEPB_T2	2	3	1	1	0.73	-0.27	0.57	0.59	0	0	0	0	0	0
3/27/2024 14:59	61801	EELI_T2	0	0	0	0	0	0	-0.37	-0.46	0	0	0	0	0	0
3/27/2024 14:59	61102	BERK_T5	0	1	1	0	0.1	0.1	0.87	0.76	1	1	0	300	300	0
3/27/2024 14:59	61803	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 14:59	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 15:00	40902	JESH_T1	3	24	21	0.13	0.31	0.18	-0.86	-0.86	0	0	0	0	0	0
3/27/2024 15:00	46801	HEPB_T2	3	2	-1	0.73	0.5	-0.23	0.57	0.59	0	0	0	0	0	0
3/27/2024 15:00	46803	HEPB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/27/2024 15:00	40903	JESH_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/27/2024 15:00	40901	JESH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/27/2024 15:01	46506	LOHA_T1	5	37	32	0.4	0.19	-0.21	0	0	0	0	0	0	0	0
3/27/2024 15:01	46501	LOHA_T1	1	1	0	0.1	0.2	0.1	0.02	0.05	1	1	0	1200	1200	0
3/27/2024 15:01	46504	LOHA_T1	56	71	15	0.47	0.46	-0.01	0	0	0	0	0	0	0	0
3/27/2024 15:02	40901	JESH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/27/2024 15:02	40902	JESH_T1	3	24	21	0.13	0.31	0.18	-0.86	-0.86	0	0	0	0	0	0
3/27/2024 15:02	40903	JESH_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/27/2024 15:02	46504	LOHA_T1	56	71	15	0.47	0.46	-0.01	0	0	0	0	0	0	0	0
3/27/2024 15:02	67605	WARW_T1	14	28	14	0.4	0.51	0.11	-0.98	-1.02	0	0	0	0	0	0
3/27/2024 15:02	46501	LOHA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/27/2024 15:02	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
3/27/2024 15:02	46506	LOHA_T1	5	37	32	0.4	0.19	-0.21	0	0	0	0	0	0	0	0
3/27/2024 15:03	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.79	1	1	0	900	900	0
3/27/2024 15:04	67204	TEHI_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
3/27/2024 15:04	46501	LOHA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/27/2024 15:04	46502	LOHA_T1	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
3/27/2024 15:04	46506	LOHA_T1	5	37	32	0.4	0.19	-0.21	0	0	0	0	0	0	0	0
3/27/2024 15:04	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
3/27/2024 15:04	46504	LOHA_T1	56	71	15	0.47	0.46	-0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/27/2024 15:04	42201	SHEN_T2	0	0	0	0	0	0	0.01	0.03	1	1	0	600	600	0
3/27/2024 15:05	67204	TEHI_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
3/27/2024 15:05	67605	WARW_T1	14	28	14	0.4	0.51	0.11	-0.98	-1.02	0	0	0	0	0	0
3/27/2024 15:06	40903	JESH_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/27/2024 15:06	40901	JESH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/27/2024 15:06	40902	JESH_T1	3	24	21	0.13	0.31	0.18	-0.86	-0.86	0	0	0	0	0	0
3/27/2024 15:07	42503	ALTA_T2	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
3/27/2024 15:08	45602	WOOL_T1	11	10	-1	0.56	0.72	0.16	0.35	0.34	0	0	0	0	0	0
3/27/2024 15:08	45601	WOOL_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/27/2024 15:09	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.79	1	1	0	900	900	0
3/27/2024 15:10	42701	AUGU_T1	1	1	0	0.5	0.6	0.1	0	0	4	4	0	3600	3600	0
3/27/2024 15:10	56501	ROCK_T2	7	98	91	0.26	0.17	-0.09	-0.02	-0.02	0	0	0	0	0	0
3/27/2024 15:10	62604	ENGL_T1	0	0	0	0	0	0	-0.64	-0.54	2	2	0	1200	1200	0
3/27/2024 15:11	45601	WOOL_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/27/2024 15:11	46004	BERW_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
3/27/2024 15:11	45602	WOOL_T1	11	10	-1	0.56	0.72	0.16	0.35	0.34	0	0	0	0	0	0
3/27/2024 15:13	62604	ENGL_T1	0	0	0	0	0	0	-0.32	-0.27	1	1	0	600	600	0
3/27/2024 15:13	56501	ROCK_T2	7	98	91	0.26	0.17	-0.09	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 15:14	45001	LIME_2	13	33	20	0.13	0.41	0.28	0	0	0	0	0	0	0	0
3/27/2024 15:14	45602	WOOL_T1	11	10	-1	0.56	0.72	0.16	0.35	0.34	0	0	0	0	0	0
3/27/2024 15:14	47002	HUGH_T2	0	10	10	0	0.21	0.21	0	0	0	0	0	0	0	0
3/27/2024 15:14	45601	WOOL_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/27/2024 15:14	56501	ROCK_T2	7	98	91	0.26	0.17	-0.09	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 15:14	45003	LIME_2	2	2	0	2.35	2.4	0.05	0	0	1	1	0	1200	1200	0
3/27/2024 15:14	47001	HUGH_T2	3	3	0	0.27	0.53	0.26	-0.79	-0.88	0	0	0	0	0	0
3/27/2024 15:14	62604	ENGL_T1	0	0	0	0	0	0	-0.32	-0.27	1	1	0	600	600	0
3/27/2024 15:15	46506	LOHA_T1	14	45	31	0.16	0.19	0.03	-0.48	-0.46	0	0	0	0	0	0
3/27/2024 15:15	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
3/27/2024 15:15	46501	LOHA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/27/2024 15:15	46504	LOHA_T1	33	71	38	0.24	0.45	0.21	0	0	0	0	0	0	0	0
3/27/2024 15:15	56501	ROCK_T2	7	99	92	0.24	0.17	-0.07	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 15:15	45001	LIME_2	24	34	10	0.26	0.42	0.16	0	0	0	0	0	0	0	0
3/27/2024 15:15	52404	GRPA_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/27/2024 15:15	61102	BERK_T5	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/27/2024 15:15	52402	GRPA_T2	5	4	-1	1.34	1.65	0.31	0	0	0	0	0	0	0	0
3/27/2024 15:15	52401	GRPA_T2	1	1	0	0.8	0.6	-0.2	-0.6	-0.58	0	0	0	0	0	0
3/27/2024 15:15	45003	LIME_2	2	2	0	2.2	2.4	0.2	0	0	1	1	0	1200	1200	0
3/27/2024 15:15	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 15:16	45602	WOOL_T1	10	10	0	0.59	0.68	0.09	0.35	0.34	0	0	0	0	0	0
3/27/2024 15:16	42001	MNVL_T2	4	5	1	0.13	0.14	0.01	-0.02	-0.01	0	0	0	0	0	0
3/27/2024 15:16	45601	WOOL_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
3/27/2024 15:16	52404	GRPA_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/27/2024 15:16	52402	GRPA_T2	5	4	-1	1.34	1.65	0.31	0	0	0	0	0	0	0	0
3/27/2024 15:16	42002	MNVL_T2	1	1	0	6.2	5.6	-0.6	0	0	0	0	0	0	0	0
3/27/2024 15:16	52401	GRPA_T2	1	1	0	0.8	0.6	-0.2	-1.2	-1.16	0	0	0	0	0	0
3/27/2024 15:17	40903	JESH_T1	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/27/2024 15:17	40902	JESH_T1	20	52	32	0.26	0.22	-0.04	-0.86	-0.83	0	0	0	0	0	0
3/27/2024 15:17	40901	JESH_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/27/2024 15:18	46503	LOHA_T1	0	0	0	0	0	0	-1.22	-1.24	0	0	0	0	0	0
3/27/2024 15:18	46501	LOHA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/27/2024 15:18	25501	MADI_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
3/27/2024 15:18	25503	MADI_T1	82	137	55	0.18	0.33	0.15	-1.02	-1.02	0	0	0	0	0	0
3/27/2024 15:18	46506	LOHA_T1	14	45	31	0.16	0.19	0.03	0	0	0	0	0	0	0	0
3/27/2024 15:18	46504	LOHA_T1	33	71	38	0.24	0.45	0.21	0	0	0	0	0	0	0	0
3/27/2024 15:19	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.79	1	1	0	900	900	0
3/27/2024 15:19	46501	LOHA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/27/2024 15:19	46504	LOHA_T1	33	71	38	0.24	0.45	0.21	0	0	0	0	0	0	0	0
3/27/2024 15:19	46506	LOHA_T1	14	45	31	0.16	0.19	0.03	-0.96	-0.92	0	0	0	0	0	0
3/27/2024 15:21	46504	LOHA_T1	33	71	38	0.24	0.45	0.21	0	0	0	0	0	0	0	0
3/27/2024 15:21	46501	LOHA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/27/2024 15:21	46506	LOHA_T1	14	45	31	0.16	0.19	0.03	-0.48	-0.46	0	0	0	0	0	0
3/27/2024 15:22	40901	JESH_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/27/2024 15:22	40903	JESH_T1	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/27/2024 15:22	40902	JESH_T1	20	52	32	0.26	0.22	-0.04	-0.86	-0.83	0	0	0	0	0	0
3/27/2024 15:24	20401	ASHF_T2	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
3/27/2024 15:24	64902	MILL_T2	0	0	0	0	0	0	-0.79	0.22	1	0	-1	900	0	-900
3/27/2024 15:27	20401	ASHF_T2	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
3/27/2024 15:28	61102	BERK_T5	1	1	0	0.1	0.2	0.1	0.73	0.87	1	1	0	300	300	0
3/27/2024 15:29	61103	BERK_T5	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
3/27/2024 15:29	61102	BERK_T5	1	1	0	0.1	0.2	0.1	0.73	0.87	1	1	0	300	300	0
3/27/2024 15:30	61103	BERK_T5	0	0	0	0	0	0	-0.01	0.05	0	0	0	0	0	0
3/27/2024 15:30	61102	BERK_T5	1	1	0	0.2	0.1	-0.1	0.73	0.87	1	1	0	300	300	0
3/27/2024 15:31	46506	LOHA_T1	37	55	18	0.18	0.23	0.05	-0.46	-0.46	0	0	0	0	0	0
3/27/2024 15:31	61102	BERK_T5	1	1	0	0.2	0.1	-0.1	0.73	0.87	1	1	0	300	300	0
3/27/2024 15:31	46504	LOHA_T1	70	51	-19	0.46	0.37	-0.09	0	0	0	0	0	0	0	0
3/27/2024 15:31	46501	LOHA_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/27/2024 15:32	66302	MCGO_T2	383	0	-383	0.42	0	-0.42	-2.63	-0.92	2	0	-2	1200	0	-1200
3/27/2024 15:32	66303	MCGO_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/27/2024 15:34	43802	SWIL_T1	1	1	0	0.1	0.4	0.3	-0.32	-0.32	1	1	0	600	600	0
3/27/2024 15:34	46501	LOHA_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/27/2024 15:34	46504	LOHA_T1	70	51	-19	0.46	0.37	-0.09	0	0	0	0	0	0	0	0
3/27/2024 15:34	46506	LOHA_T1	37	55	18	0.18	0.23	0.05	-0.46	-0.46	0	0	0	0	0	0
3/27/2024 15:34	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
3/27/2024 15:34	43801	SWIL_T1	2	2	0	3.15	3.3	0.15	0	0	0	0	0	0	0	0
3/27/2024 15:35	46504	LOHA_T1	70	51	-19	0.46	0.37	-0.09	0	0	0	0	0	0	0	0
3/27/2024 15:35	43801	SWIL_T1	2	2	0	3.15	3.3	0.15	0	0	0	0	0	0	0	0
3/27/2024 15:35	43802	SWIL_T1	1	1	0	0.1	0.4	0.3	-0.32	-0.32	1	1	0	600	600	0
3/27/2024 15:35	46506	LOHA_T1	37	55	18	0.18	0.23	0.05	-0.46	-0.46	0	0	0	0	0	0
3/27/2024 15:35	46501	LOHA_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/27/2024 15:38	43802	SWIL_T1	1	1	0	0.1	0.4	0.3	-0.32	-0.31	1	1	0	600	600	0
3/27/2024 15:38	43801	SWIL_T1	2	2	0	3.15	3.3	0.15	0	0	0	0	0	0	0	0
3/27/2024 15:39	43104	SMIL_T2	0	0	0	0	0	0	-0.82	-0.82	1	1	0	300	300	0
3/27/2024 15:39	43103	SMIL_T2	17	16	-1	0.67	0.73	0.06	0	0	0	0	0	0	0	0
3/27/2024 15:39	43102	SMIL_T2	7	7	0	0.57	0.7	0.13	0	0	0	0	0	0	0	0
3/27/2024 15:39	43105	SMIL_T2	4	4	0	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
3/27/2024 15:40	56802	BENV_T2	130	186	56	0.25	0.34	0.09	-1.34	-1.32	0	0	0	0	0	0
3/27/2024 15:41	56802	BENV_T2	130	186	56	0.25	0.34	0.09	-4.02	-3.97	0	0	0	0	0	0
3/27/2024 15:42	56802	BENV_T2	130	186	56	0.25	0.34	0.09	-4.02	-3.97	0	0	0	0	0	0
3/27/2024 15:44	61102	BERK_T5	1	1	0	0.2	0.1	-0.1	0.87	0.75	1	1	0	300	300	0
3/27/2024 15:45	61103	BERK_T5	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
3/27/2024 15:45	61102	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/27/2024 15:46	61103	BERK_T5	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
3/27/2024 15:46	61102	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/27/2024 15:47	61102	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/27/2024 15:47	61103	BERK_T5	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
3/27/2024 15:48	67605	WARW_T1	17	32	15	0.52	0.57	0.05	-1	-1.04	0	0	0	0	0	0
3/27/2024 15:49	61102	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/27/2024 15:49	61103	BERK_T5	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
3/27/2024 15:58	63401	HONY_T1	0	0	0	0	0	0	0.17	0.16	1	1	0	600	600	0
3/27/2024 15:59	26401	INOR_T1	0	0	0	0	0	0	0.61	0.53	0	0	0	0	0	0
3/27/2024 16:02	47001	HUGH_T2	3	1	-2	0.43	0.1	-0.33	-0.86	-0.76	0	0	0	0	0	0
3/27/2024 16:07	58401	MORO_T1	0	0	0	0	0	0	-1.09	-1.06	1	1	0	600	600	0
3/27/2024 16:13	45501	DERR_T2	0	0	0	0	0	0	0.58	0.53	2	2	0	1800	1800	0
3/27/2024 16:23	59202	THOM_T1	166	272	106	0.2	0.36	0.16	0	0	0	0	0	0	0	0
3/27/2024 16:23	59201	THOM_T1	7	19	12	0.18	0.34	0.16	0	0	0	0	0	0	0	0
3/27/2024 16:23	56802	BENV_T2	16	66	50	0.19	0.19	0	-2.62	-2.68	0	0	0	0	0	0
3/27/2024 16:24	56802	BENV_T2	16	66	50	0.19	0.19	0	-1.31	-1.34	0	0	0	0	0	0
3/27/2024 16:45	45003	LIME_2	2	2	0	2.2	2.1	-0.1	0	0	0	0	0	0	0	0
3/27/2024 16:45	45002	LIME_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 16:47	45003	LIME_2	2	2	0	2.2	2.1	-0.1	0	0	0	0	0	0	0	0
3/27/2024 16:47	45002	LIME_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 16:48	45003	LIME_2	2	2	0	2.2	2.1	-0.1	0	0	0	0	0	0	0	0
3/27/2024 16:48	45002	LIME_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 16:53	20403	ASHF_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
3/27/2024 16:57	20403	ASHF_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
3/27/2024 17:31	57303	MOAL_T2	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
3/27/2024 17:31	57306	MOAL_T2	0	0	0	0	0	0	-3.19	-3.17	1	1	0	1200	1200	0
3/27/2024 17:31	57304	MOAL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/27/2024 17:32	57304	MOAL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/27/2024 17:32	57303	MOAL_T2	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
3/27/2024 17:32	57306	MOAL_T2	0	0	0	0	0	0	-3.19	-3.17	1	1	0	1200	1200	0
3/27/2024 17:35	57303	MOAL_T2	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
3/27/2024 17:35	57304	MOAL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/27/2024 17:35	57306	MOAL_T2	0	0	0	0	0	0	-3.19	-3.17	1	1	0	1200	1200	0
3/27/2024 17:53	59101	WALK_T2	0	0	0	0	0	0	1.43	1.39	0	0	0	0	0	0
3/27/2024 18:13	58401	MORO_T1	0	0	0	0	0	0	-0.95	-0.93	3	3	0	2400	2400	0
3/27/2024 20:09	56802	BENV_T2	93	219	126	0.24	0.37	0.13	-1.44	-1.4	0	0	0	0	0	0
3/27/2024 20:29	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.01	-0.03	2	2	0	1800	1800	0
3/27/2024 20:45	52401	GRPA_T2	2	2	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
3/27/2024 20:45	52403	GRPA_T2	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
3/27/2024 20:45	52402	GRPA_T2	4	5	1	2.05	1.76	-0.29	0	0	0	0	0	0	0	0
3/27/2024 20:45	52404	GRPA_T2	1	1	0	0.8	0.9	0.1	-0.13	-0.15	0	0	0	0	0	0
3/27/2024 20:56	10805	CHHI_T2	1	1	0	7.3	7.3	0	-0.93	-0.94	0	0	0	0	0	0
3/27/2024 20:56	17002	RIRO_T2	7	16	9	0.1	0.13	0.03	0.35	0.35	0	0	0	0	0	0
3/27/2024 21:00	57304	MOAL_T2	1	7	6	0.5	0.29	-0.21	0	0	0	0	0	0	0	0
3/27/2024 21:00	57303	MOAL_T2	1	1	0	6.7	6.5	-0.2	0	0	0	0	0	0	0	0
3/27/2024 21:00	55105	WERT_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
3/27/2024 21:00	57306	MOAL_T2	0	1	1	0	0	0	-6.38	-6.44	2	2	0	2400	2400	0
3/27/2024 21:01	10805	CHHI_T2	1	1	0	7.3	7.4	0.1	-0.93	-0.94	0	0	0	0	0	0
3/27/2024 21:02	13302	ORVI_T2	0	0	0	0	0	0	1.26	1.29	0	0	0	0	0	0
3/27/2024 21:03	54505	ENOL_T2	1	1	0	1	1.2	0.2	-1.33	-1.34	1	1	0	600	600	0
3/27/2024 21:03	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/27/2024 21:05	54501	ENOL_T2	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
3/27/2024 21:05	16302	ALPA_T2	0	0	0	0	0	0	1.24	1.39	0	0	0	0	0	0
3/27/2024 21:05	67002	STHI_T2	0	8	8	0	0.14	0.14	0.55	0.54	0	0	0	0	0	0
3/27/2024 21:05	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/27/2024 21:05	54505	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
3/27/2024 21:05	67001	STHI_T2	1	141	140	0.5	0.11	-0.39	0	0	0	0	0	0	0	0
3/27/2024 21:06	57401	SPAN_T1	2	3	1	0.55	0.75	0.2	-0.9	-0.88	1	1	0	600	600	0
3/27/2024 21:06	57403	SPAN_T1	26	29	3	0.25	0.28	0.03	0	0	0	0	0	0	0	0
3/27/2024 21:07	57303	MOAL_T2	1	1	0	6.7	6.5	-0.2	0	0	0	0	0	0	0	0
3/27/2024 21:07	57401	SPAN_T1	2	3	1	0.55	0.75	0.2	0	0	0	0	0	0	0	0
3/27/2024 21:07	57403	SPAN_T1	26	29	3	0.25	0.28	0.03	0.03	0.06	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/27/2024 21:07	59101	WALK_T2	0	0	0	0	0	0	0.64	0.49	1	1	0	600	600	0
3/27/2024 21:07	16302	ALPA_T2	0	0	0	0	0	0	0.62	0.69	0	0	0	0	0	0
3/27/2024 21:07	56802	BENV_T2	271	313	42	0.59	0.77	0.18	-2.99	-2.88	0	0	0	0	0	0
3/27/2024 21:07	57304	MOAL_T2	1	7	6	0.5	0.29	-0.21	-0.43	-0.45	0	0	0	0	0	0
3/27/2024 21:07	57306	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 21:09	50103	HARR_T3	2	2	0	1.25	0.8	-0.45	-2.1	-2.07	2	2	0	2400	2400	0
3/27/2024 21:09	50202	HARR_T3	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/27/2024 21:09	50201	HARR_T3	2	2	0	4.9	5.1	0.2	0	0	0	0	0	0	0	0
3/27/2024 21:09	50102	HARR_T3	9	18	9	0.29	0.29	0	0	0	0	0	0	0	0	0
3/27/2024 21:09	41501	FAIR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 21:09	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
3/27/2024 21:09	50105	HARR_T3	7	7	0	5.9	5.77	-0.13	0	0	0	0	0	0	0	0
3/27/2024 21:09	16302	ALPA_T2	0	0	0	0	0	0	0.69	0.63	0	0	0	0	0	0
3/27/2024 21:10	57403	SPAN_T1	26	29	3	0.25	0.28	0.03	0	0	0	0	0	0	0	0
3/27/2024 21:10	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 21:10	67502	WEWI_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
3/27/2024 21:10	52501	PROG_T1	0	0	0	0	0	0	0.34	0.33	1	1	0	300	300	0
3/27/2024 21:10	57401	SPAN_T1	2	3	1	0.55	0.75	0.2	-0.88	-0.89	1	1	0	600	600	0
3/27/2024 21:10	56802	BENV_T2	271	313	42	0.59	0.77	0.18	-1.44	-1.5	0	0	0	0	0	0
3/27/2024 21:11	64802	MONE_T2	52	155	103	0.14	0.17	0.03	0	0	0	0	0	0	0	0
3/27/2024 21:11	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 21:11	64801	MONE_T2	13	22	9	0.32	0.29	-0.03	-0.34	-0.36	0	0	0	0	0	0
3/27/2024 21:11	64203	KINZ_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
3/27/2024 21:11	64702	LITI_T2	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
3/27/2024 21:11	56802	BENV_T2	271	313	42	0.59	0.77	0.18	-1.44	-1.5	0	0	0	0	0	0
3/27/2024 21:11	57403	SPAN_T1	26	29	3	0.25	0.28	0.03	0	0	0	0	0	0	0	0
3/27/2024 21:11	57401	SPAN_T1	2	3	1	0.55	0.75	0.2	-0.88	-0.89	1	1	0	600	600	0
3/27/2024 21:11	56501	ROCK_T2	119	320	201	0.21	0.26	0.05	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 21:11	64201	KINZ_T1	1	6	5	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
3/27/2024 21:11	55002	NEWP_T1	6	6	0	0.8	0.48	-0.32	-0.27	-0.28	0	0	0	0	0	0
3/27/2024 21:11	64204	KINZ_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/27/2024 21:11	55001	NEWP_T1	8	2	-6	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/27/2024 21:12	10805	CHHI_T2	1	1	0	7.3	7.4	0.1	-0.94	-0.94	0	0	0	0	0	0
3/27/2024 21:12	15703	TANN_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
3/27/2024 21:12	15704	TANN_T1	0	0	0	0	0	0	-1.38	-1.41	0	0	0	0	0	0
3/27/2024 21:12	56501	ROCK_T2	119	320	201	0.21	0.26	0.05	-0.02	-0.02	0	0	0	0	0	0
3/27/2024 21:12	55001	NEWP_T1	8	2	-6	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/27/2024 21:12	41802	GOCI_T2	14	18	4	0.24	0.35	0.11	0	0	0	0	0	0	0	0
3/27/2024 21:12	55002	NEWP_T1	6	6	0	0.8	0.48	-0.32	-0.27	-0.28	0	0	0	0	0	0
3/27/2024 21:12	56802	BENV_T2	271	313	42	0.59	0.77	0.18	-1.44	-1.5	0	0	0	0	0	0
3/27/2024 21:12	64902	MILL_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
3/27/2024 21:12	41801	GOCI_T2	5	20	15	0.12	0.16	0.04	0	0	0	0	0	0	0	0
3/27/2024 21:13	52402	GRPA_T2	4	11	7	2.13	0.93	-1.2	0	0	0	0	0	0	0	0
3/27/2024 21:13	58001	WCAR_T1	10	21	11	0.65	0.48	-0.17	0	0	0	0	0	0	0	0
3/27/2024 21:13	57304	MOAL_T2	1	7	6	0.5	0.29	-0.21	-0.45	-0.45	0	0	0	0	0	0
3/27/2024 21:13	54505	ENOL_T2	1	1	0	1	1.2	0.2	-1.34	-1.34	1	1	0	600	600	0
3/27/2024 21:13	57306	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 21:13	52404	GRPA_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
3/27/2024 21:13	52401	GRPA_T2	2	1	-1	0.45	0.6	0.15	0	0	0	0	0	0	0	0
3/27/2024 21:13	64702	LITI_T2	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
3/27/2024 21:13	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/27/2024 21:13	54504	ENOL_T2	0	0	0	0	0	0	-1.04	-1.03	1	1	0	600	600	0
3/27/2024 21:13	58003	WCAR_T1	55	88	33	0.33	0.41	0.08	0.59	0.57	0	0	0	0	0	0
3/27/2024 21:13	40602	PIGR_T1	0	0	0	0	0	0	-1.34	-1.42	2	2	0	1200	1200	0
3/27/2024 21:13	52403	GRPA_T2	5	3	-2	0.16	0.13	-0.03	-0.05	-0.05	0	0	0	0	0	0
3/27/2024 21:13	57303	MOAL_T2	1	1	0	6.7	6.5	-0.2	0	0	0	0	0	0	0	0
3/27/2024 21:13	56501	ROCK_T2	119	320	201	0.21	0.26	0.05	-0.02	-0.02	0	0	0	0	0	0
3/27/2024 21:13	40601	PIGR_T1	121	211	90	0.22	0.37	0.15	0	0	0	0	0	0	0	0
3/27/2024 21:14	63401	HONY_T1	0	0	0	0	0	0	-0.01	0	1	1	0	600	600	0
3/27/2024 21:14	67502	WEWI_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
3/27/2024 21:15	67001	STHI_T2	18	238	220	0.12	0.16	0.04	0	0	0	0	0	0	0	0
3/27/2024 21:15	54202	PENN_T2	40	224	184	0.16	0.19	0.03	0	0	0	0	0	0	0	0
3/27/2024 21:15	67002	STHI_T2	3	32	29	0.1	0.12	0.02	0.54	0.53	0	0	0	0	0	0
3/27/2024 21:15	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/27/2024 21:15	54204	PENN_T2	2	3	1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
3/27/2024 21:15	54206	PENN_T2	42	71	29	0.21	0.31	0.1	-0.04	-0.09	0	0	0	0	0	0
3/27/2024 21:15	62607	ENGL_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/27/2024 21:15	62606	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/27/2024 21:15	25402	LAHA_T2	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
3/27/2024 21:15	62604	ENGL_T1	0	0	0	0	0	0	-0.53	-0.55	1	1	0	600	600	0
3/27/2024 21:15	45501	DERR_T2	0	0	0	0	0	0	0.07	0.1	2	2	0	1800	1800	0
3/27/2024 21:15	10801	CHHI_T1	0	0	0	0	0	0	-1	-1	1	1	0	900	900	0
3/27/2024 21:15	54505	ENOL_T2	1	1	0	1.1	1.3	0.2	-1.34	-1.34	1	1	0	600	600	0
3/27/2024 21:15	54501	ENOL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/27/2024 21:16	55001	NEWP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/27/2024 21:16	56803	BENV_T1	3	1	-2	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
3/27/2024 21:16	49803	UNIV_T1	0	0	0	0	0	0	-1.17	-1.16	0	0	0	0	0	0
3/27/2024 21:16	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/27/2024 21:16	56501	ROCK_T2	138	342	204	0.19	0.27	0.08	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 21:16	56801	BENV_T1	31	24	-7	0.36	0.64	0.28	-0.81	-0.8	1	1	0	600	600	0
3/27/2024 21:16	59301	MCAL_T1	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
3/27/2024 21:16	55002	NEWP_T1	5	6	1	0.46	0.7	0.24	-0.27	-0.28	0	0	0	0	0	0
3/27/2024 21:16	67002	STHI_T2	3	32	29	0.1	0.12	0.02	1.62	1.59	0	0	0	0	0	0
3/27/2024 21:16	59302	MCAL_T1	1	1	0	0.5	0.4	-0.1	-0.47	-0.41	1	1	0	600	600	0
3/27/2024 21:16	67001	STHI_T2	18	238	220	0.12	0.16	0.04	0	0	0	0	0	0	0	0
3/27/2024 21:16	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 21:16	56802	BENV_T2	307	321	14	0.76	0.79	0.03	-4.32	-4.49	0	0	0	0	0	0
3/27/2024 21:16	60803	BUCK_T1	0	0	0	0	0	0	-1.1	-1.1	2	2	0	1200	1200	0
3/27/2024 21:17	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 21:17	16402	MOPO_T1	0	0	0	0	0	0	-0.12	-0.08	0	0	0	0	0	0
3/27/2024 21:17	46302	ROHR_T1	2	8	6	3.8	1.08	-2.72	0.16	0.16	0	0	0	0	0	0
3/27/2024 21:17	47001	HUGH_T2	1	2	1	0.1	0.35	0.25	-0.87	-0.89	0	0	0	0	0	0
3/27/2024 21:17	26401	INOR_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
3/27/2024 21:17	27502	WEIS_T2	0	0	0	0	0	0	-0.1	-0.17	0	0	0	0	0	0
3/27/2024 21:17	56501	ROCK_T2	138	342	204	0.19	0.27	0.08	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 21:17	60801	BUCK_T1	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
3/27/2024 21:17	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 21:17	67001	STHI_T2	18	238	220	0.12	0.16	0.04	0	0	0	0	0	0	0	0
3/27/2024 21:17	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
3/27/2024 21:17	10801	CHHI_T1	0	0	0	0	0	0	-1	-1	1	1	0	900	900	0
3/27/2024 21:17	47002	HUGH_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
3/27/2024 21:17	67002	STHI_T2	3	32	29	0.1	0.12	0.02	0.54	0.53	0	0	0	0	0	0
3/27/2024 21:17	61102	BERK_T5	0	1	1	0	0.1	0.1	0.6	0.52	2	2	0	600	600	0
3/27/2024 21:17	56802	BENV_T2	307	321	14	0.76	0.79	0.03	-4.32	-4.49	0	0	0	0	0	0
3/27/2024 21:17	42701	AUGU_T1	1	4	3	0.6	0.3	-0.3	0	0	2	2	0	1800	1800	0
3/27/2024 21:17	46301	ROHR_T1	104	146	42	0.24	0.28	0.04	0	0	0	0	0	0	0	0
3/27/2024 21:17	26402	INOR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 21:17	45501	DERR_T2	0	0	0	0	0	0	0.07	0.1	2	2	0	1800	1800	0
3/27/2024 21:18	52401	GRPA_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
3/27/2024 21:18	56802	BENV_T2	307	321	14	0.76	0.79	0.03	-1.44	-1.5	0	0	0	0	0	0
3/27/2024 21:18	66504	SMAN_T2	0	0	0	0	0	0	-1.25	-1.09	0	0	0	0	0	0
3/27/2024 21:18	41801	GOCI_T2	18	11	-7	0.16	0.12	-0.04	0	0	0	0	0	0	0	0
3/27/2024 21:18	52403	GRPA_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/27/2024 21:18	20401	ASHF_T2	0	1	1	0	0	0	-0.44	-0.43	0	0	0	0	0	0
3/27/2024 21:18	66503	SMAN_T2	0	12	12	0	0.13	0.13	0	0	0	0	0	0	0	0
3/27/2024 21:18	61102	BERK_T5	0	1	1	0	0.1	0.1	1.21	1.05	4	4	0	1200	1200	0
3/27/2024 21:18	66505	SMAN_T2	3	3	0	1.37	1.43	0.06	0	0	0	0	0	0	0	0
3/27/2024 21:18	41802	GOCI_T2	18	18	0	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
3/27/2024 21:18	52402	GRPA_T2	5	11	6	1.72	0.95	-0.77	0	0	0	0	0	0	0	0
3/27/2024 21:18	15001	BLMO_T1	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
3/27/2024 21:18	52404	GRPA_T2	1	1	0	0.9	1.1	0.2	-0.15	-0.11	0	0	0	0	0	0
3/27/2024 21:19	56501	ROCK_T2	138	342	204	0.19	0.27	0.08	0	0	0	0	0	0	0	0
3/27/2024 21:19	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
3/27/2024 21:20	40502	CRES_T2	9	24	15	0.27	0.35	0.08	-0.25	-0.3	0	0	0	0	0	0
3/27/2024 21:20	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
3/27/2024 21:20	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 21:20	42503	ALTA_T2	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
3/27/2024 21:20	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 21:20	56802	BENV_T2	307	321	14	0.76	0.79	0.03	-2.88	-2.99	0	0	0	0	0	0
3/27/2024 21:20	52403	GRPA_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/27/2024 21:20	15001	BLMO_T1	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
3/27/2024 21:20	52402	GRPA_T2	5	11	6	1.72	0.95	-0.77	0	0	0	0	0	0	0	0
3/27/2024 21:20	52404	GRPA_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/27/2024 21:20	52401	GRPA_T2	1	1	0	0.6	1	0.4	-0.49	-0.5	0	0	0	0	0	0
3/27/2024 21:20	40501	CRES_T2	3	6	3	0.13	0.17	0.04	0	0	0	0	0	0	0	0
3/27/2024 21:21	56501	ROCK_T2	138	342	204	0.19	0.27	0.08	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 21:21	59101	WALK_T2	0	0	0	0	0	0	0.49	0.58	1	0	-1	600	0	-600
3/27/2024 21:21	28704	HAML_T2	1	1	0	0.1	0.5	0.4	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 21:21	42201	SHEN_T2	0	0	0	0	0	0	-0.02	-0.04	1	1	0	600	600	0
3/27/2024 21:21	65003	NEFF_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/27/2024 21:21	63602	LETO_T1	0	0	0	0	0	0	-0.59	-0.51	0	0	0	0	0	0
3/27/2024 21:21	65001	NEFF_T2	124	231	107	0.16	0.3	0.14	-0.87	-0.98	1	1	0	1200	1200	0
3/27/2024 21:21	24902	WHHA_T1	2	2	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
3/27/2024 21:21	61102	BERK_T5	0	1	1	0	0.1	0.1	0.91	0.78	3	3	0	900	900	0
3/27/2024 21:21	67605	WARW_T1	2	13	11	0.25	0.28	0.03	-0.89	-0.9	0	0	0	0	0	0
3/27/2024 21:21	45501	DERR_T2	0	0	0	0	0	0	0.14	0.2	4	4	0	3600	3600	0
3/27/2024 21:21	45303	WBER_T2	0	0	0	0	0	0	0.24	0.2	0	0	0	0	0	0
3/27/2024 21:21	58402	MORO_T1	0	0	0	0	0	0	-0.22	-0.3	2	2	0	1500	1500	0
3/27/2024 21:21	28703	HAML_T2	2	3	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/27/2024 21:21	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 21:21	67203	TEHI_T1	0	0	0	0	0	0	2.11	2.12	1	1	0	600	600	0
3/27/2024 21:21	46203	DANV_T2	174	270	96	0.53	0.69	0.16	-1.11	-1.12	0	0	0	0	0	0
3/27/2024 21:22	59201	THOM_T1	7	2	-5	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
3/27/2024 21:22	59101	WALK_T2	0	0	0	0	0	0	0.49	0.58	1	0	-1	600	0	-600
3/27/2024 21:22	62604	ENGL_T1	0	0	0	0	0	0	-0.53	-0.55	1	1	0	600	600	0
3/27/2024 21:22	67001	STHI_T2	18	238	220	0.12	0.16	0.04	0	0	0	0	0	0	0	0
3/27/2024 21:22	40101	HUNT_T2	2	0	-2	0.25	0	-0.25	-0.89	-0.98	0	0	0	0	0	0
3/27/2024 21:22	62606	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/27/2024 21:22	67002	STHI_T2	3	32	29	0.1	0.12	0.02	0.54	0.53	0	0	0	0	0	0
3/27/2024 21:22	46001	BERW_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
3/27/2024 21:22	55002	NEWP_T1	5	6	1	0.46	0.7	0.24	-0.27	-0.28	0	0	0	0	0	0
3/27/2024 21:22	52401	GRPA_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
3/27/2024 21:22	42201	SHEN_T2	0	0	0	0	0	0	-0.02	-0.04	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/27/2024 21:22	52404	GRPA_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/27/2024 21:22	62607	ENGL_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/27/2024 21:22	52402	GRPA_T2	5	11	6	1.72	0.95	-0.77	-0.88	-0.88	0	0	0	0	0	0
3/27/2024 21:22	52403	GRPA_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/27/2024 21:22	40505	CRES_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
3/27/2024 21:22	59202	THOM_T1	40	31	-9	0.17	0.17	0	0	0	0	0	0	0	0	0
3/27/2024 21:22	42802	SELI_T1	0	0	0	0	0	0	-0.08	-0.13	0	0	0	0	0	0
3/27/2024 21:22	55001	NEWP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/27/2024 21:22	26002	WDAM_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/27/2024 21:22	26001	WDAM_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
3/27/2024 21:23	52403	GRPA_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/27/2024 21:23	56803	BENV_T1	3	1	-2	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
3/27/2024 21:23	52404	GRPA_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/27/2024 21:23	52401	GRPA_T2	1	1	0	0.6	1	0.4	-0.99	-1.02	0	0	0	0	0	0
3/27/2024 21:23	58001	WCAR_T1	14	22	8	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
3/27/2024 21:23	40505	CRES_T1	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
3/27/2024 21:23	58003	WCAR_T1	72	96	24	0.37	0.44	0.07	0.57	0.58	0	0	0	0	0	0
3/27/2024 21:23	67605	WARW_T1	2	13	11	0.25	0.28	0.03	-0.9	-0.88	0	0	0	0	0	0
3/27/2024 21:23	67402	WAKE_T2	0	0	0	0	0	0	0.19	0.15	0	0	0	0	0	0
3/27/2024 21:23	52402	GRPA_T2	5	11	6	1.72	0.95	-0.77	0	0	0	0	0	0	0	0
3/27/2024 21:23	45303	WBER_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
3/27/2024 21:23	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
3/27/2024 21:23	44601	SALE_T2	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
3/27/2024 21:23	16302	ALPA_T2	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
3/27/2024 21:23	55002	NEWP_T1	5	6	1	0.46	0.7	0.24	-0.28	-0.28	0	0	0	0	0	0
3/27/2024 21:23	43202	MVIL_T2	57	77	20	0.41	0.42	0.01	-0.71	-0.72	0	0	0	0	0	0
3/27/2024 21:23	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 21:23	24902	WHHA_T1	2	2	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
3/27/2024 21:23	45003	LIME_2	2	2	0	2.4	2.45	0.05	0	0	1	1	0	1200	1200	0
3/27/2024 21:23	56801	BENV_T1	31	24	-7	0.36	0.64	0.28	-0.8	-0.8	1	1	0	600	600	0
3/27/2024 21:23	45001	LIME_2	32	3	-29	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
3/27/2024 21:23	67001	STHI_T2	18	238	220	0.12	0.16	0.04	0	0	0	0	0	0	0	0
3/27/2024 21:23	67002	STHI_T2	3	32	29	0.1	0.12	0.02	0.53	0.53	0	0	0	0	0	0
3/27/2024 21:23	55001	NEWP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/27/2024 21:23	42201	SHEN_T2	0	0	0	0	0	0	-0.04	-0.02	1	1	0	600	600	0
3/27/2024 21:24	43801	SWIL_T1	9	11	2	0.94	0.77	-0.17	0	0	0	0	0	0	0	0
3/27/2024 21:24	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 21:24	44301	BEAV_T2	0	0	0	0	0	0	0.6	0.7	1	1	0	600	600	0
3/27/2024 21:24	42701	AUGU_T1	1	4	3	0.6	0.3	-0.3	0	0	2	2	0	1800	1800	0
3/27/2024 21:24	67605	WARW_T1	2	13	11	0.25	0.28	0.03	-0.9	-0.88	0	0	0	0	0	0
3/27/2024 21:24	47201	FAXO_T2	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
3/27/2024 21:24	43802	SWIL_T1	0	0	0	0	0	0	-0.31	-0.33	1	1	0	600	600	0
3/27/2024 21:25	42903	MIDD_T2	2	2	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
3/27/2024 21:25	42902	MIDD_T2	12	19	7	0.27	0.22	-0.05	-0.36	-0.42	0	0	0	0	0	0
3/27/2024 21:25	67001	STHI_T2	18	238	220	0.12	0.16	0.04	0	0	0	0	0	0	0	0
3/27/2024 21:25	15001	BLMO_T1	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
3/27/2024 21:25	43103	SMIL_T2	17	17	0	0.35	0.51	0.16	0	0	0	0	0	0	0	0
3/27/2024 21:25	67002	STHI_T2	3	32	29	0.1	0.12	0.02	0.53	0.53	0	0	0	0	0	0
3/27/2024 21:25	43108	SMIL_T2	3	3	0	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
3/27/2024 21:25	42002	MNVL_T2	1	1	0	4.7	4.6	-0.1	0	0	0	0	0	0	0	0
3/27/2024 21:25	43104	SMIL_T2	0	0	0	0	0	0	-0.83	-0.84	1	1	0	300	300	0
3/27/2024 21:25	43102	SMIL_T2	8	8	0	0.81	0.94	0.13	0	0	0	0	0	0	0	0
3/27/2024 21:25	43105	SMIL_T2	20	26	6	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
3/27/2024 21:25	42001	MNVL_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
3/27/2024 21:25	42901	MIDD_T2	27	47	20	0.13	0.13	0	0	0	0	0	0	0	0	0
3/27/2024 21:26	41801	GOCI_T2	18	11	-7	0.16	0.12	-0.04	0	0	0	0	0	0	0	0
3/27/2024 21:26	52402	GRPA_T2	5	11	6	1.72	0.95	-0.77	-0.88	-0.89	0	0	0	0	0	0
3/27/2024 21:26	45002	LIME_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 21:26	55001	NEWP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/27/2024 21:26	43201	MVIL_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
3/27/2024 21:26	40903	JESH_T1	138	238	100	0.2	0.27	0.07	0	0	0	0	0	0	0	0
3/27/2024 21:26	43202	MVIL_T2	57	77	20	0.41	0.42	0.01	0	0	0	0	0	0	0	0
3/27/2024 21:26	45003	LIME_2	2	2	0	2.4	2.45	0.05	0	0	1	0	-1	1200	0	-1200
3/27/2024 21:26	41802	GOCI_T2	18	18	0	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
3/27/2024 21:26	46001	BERW_T1	0	0	0	0	0	0	0.98	1.02	0	0	0	0	0	0
3/27/2024 21:26	40901	JESH_T1	123	192	69	0.26	0.36	0.1	0	0	0	0	0	0	0	0
3/27/2024 21:26	25503	MADI_T1	57	130	73	0.16	0.28	0.12	-1	-1	0	0	0	0	0	0
3/27/2024 21:26	52403	GRPA_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/27/2024 21:26	26002	WDAM_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/27/2024 21:26	43802	SWIL_T1	0	0	0	0	0	0	-0.62	-0.66	2	2	0	1200	1200	0
3/27/2024 21:26	40902	JESH_T1	126	448	322	0.16	0.22	0.06	-0.85	-0.84	0	0	0	0	0	0
3/27/2024 21:26	52404	GRPA_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/27/2024 21:26	52401	GRPA_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
3/27/2024 21:26	45001	LIME_2	32	3	-29	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
3/27/2024 21:26	55002	NEWP_T1	5	6	1	0.46	0.7	0.24	-0.28	-0.28	0	0	0	0	0	0
3/27/2024 21:26	61102	BERK_T5	0	1	1	0	0.1	0.1	0.26	0.27	1	1	0	300	300	0
3/27/2024 21:26	67201	TEHI_T1	0	0	0	0	0	0	0.19	0.02	0	0	0	0	0	0
3/27/2024 21:26	43801	SWIL_T1	9	11	2	0.94	0.77	-0.17	0	0	0	0	0	0	0	0
3/27/2024 21:26	26001	WDAM_T1	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
3/27/2024 21:27	57306	MOAL_T2	0	1	1	0	0	0	-3.23	-3.23	1	1	0	1200	1200	0
3/27/2024 21:27	57303	MOAL_T2	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
3/27/2024 21:27	67401	WAKE_T2	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
3/27/2024 21:27	40101	HUNT_T2	2	0	-2	0.25	0	-0.25	-0.49	-0.46	0	0	0	0	0	0
3/27/2024 21:27	42701	AUGU_T1	1	4	3	0.6	0.3	-0.3	0	0	2	2	0	1800	1800	0
3/27/2024 21:27	57403	SPAN_T1	15	71	56	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
3/27/2024 21:27	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.24	1	1	0	600	600	0
3/27/2024 21:27	57401	SPAN_T1	2	2	0	0.55	0.8	0.25	-0.89	-0.95	1	1	0	600	600	0
3/27/2024 21:27	57304	MOAL_T2	7	4	-3	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
3/27/2024 21:27	40602	PIGR_T1	0	0	0	0	0	0	-0.71	-0.75	1	1	0	600	600	0
3/27/2024 21:27	61801	EELI_T2	0	0	0	0	0	0	-0.88	-0.8	0	0	0	0	0	0
3/27/2024 21:27	40601	PIGR_T1	143	223	80	0.26	0.39	0.13	0	0	0	0	0	0	0	0
3/27/2024 21:28	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/27/2024 21:28	52403	GRPA_T2	3	0	-3	0.13	0	-0.13	-0.05	-0.05	0	0	0	0	0	0
3/27/2024 21:28	52401	GRPA_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
3/27/2024 21:28	65003	NEFF_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/27/2024 21:28	52402	GRPA_T2	5	11	6	1.72	0.95	-0.77	0	0	0	0	0	0	0	0
3/27/2024 21:28	52404	GRPA_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/27/2024 21:28	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/27/2024 21:28	65001	NEFF_T2	124	231	107	0.16	0.3	0.14	-0.98	-0.96	1	1	0	1200	1200	0
3/27/2024 21:28	44601	SALE_T2	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
3/27/2024 21:28	44301	BEAV_T2	0	0	0	0	0	0	0.6	0.7	1	1	0	600	600	0
3/27/2024 21:29	66703	STRA_T1	7	15	8	0.44	0.46	0.02	-0.42	-0.4	0	0	0	0	0	0
3/27/2024 21:29	46004	BERW_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
3/27/2024 21:29	45002	LIME_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 21:29	45001	LIME_2	32	3	-29	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
3/27/2024 21:29	64801	MONE_T2	22	27	5	0.29	0.33	0.04	0	0	0	0	0	0	0	0
3/27/2024 21:29	42001	MNVL_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
3/27/2024 21:29	64305	LINC_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/27/2024 21:29	45003	LIME_2	2	2	0	2.4	2.45	0.05	0	0	0	0	0	0	0	0
3/27/2024 21:29	64303	LINC_T1	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
3/27/2024 21:29	42002	MNVL_T2	1	1	0	4.7	4.6	-0.1	0	0	0	0	0	0	0	0
3/27/2024 21:29	64802	MONE_T2	151	43	-108	0.17	0.16	-0.01	-0.09	-0.03	0	0	0	0	0	0
3/27/2024 21:29	46203	DANV_T2	174	270	96	0.53	0.69	0.16	-1.12	-1.05	0	0	0	0	0	0
3/27/2024 21:30	46501	LOHA_T1	0	0	0	0	0	0	0.87	0.76	0	0	0	0	0	0
3/27/2024 21:30	62606	ENGL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/27/2024 21:30	46506	LOHA_T1	150	143	-7	0.15	0.16	0.01	0	0	0	0	0	0	0	0
3/27/2024 21:30	46503	LOHA_T1	11	4	-7	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/27/2024 21:30	46004	BERW_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
3/27/2024 21:30	46504	LOHA_T1	42	85	43	0.22	0.24	0.02	0	0	0	0	0	0	0	0
3/27/2024 21:30	42802	SELI_T1	0	0	0	0	0	0	-0.13	-0.1	0	0	0	0	0	0
3/27/2024 21:30	43202	MVIL_T2	67	81	14	0.42	0.49	0.07	-0.71	-0.72	0	0	0	0	0	0
3/27/2024 21:30	62607	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/27/2024 21:30	62604	ENGL_T1	0	0	0	0	0	0	-0.55	-0.54	1	1	0	600	600	0
3/27/2024 21:31	62606	ENGL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/27/2024 21:31	66303	MCGO_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/27/2024 21:31	66302	MCGO_T2	0	0	0	0	0	0	-2.04	-2.04	0	0	0	0	0	0
3/27/2024 21:31	62607	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/27/2024 21:31	46203	DANV_T2	246	241	-5	0.55	0.74	0.19	-1.12	-1.05	0	0	0	0	0	0
3/27/2024 21:31	46301	ROHR_T1	138	143	5	0.27	0.3	0.03	0	0	0	0	0	0	0	0
3/27/2024 21:31	45402	WBLO_T2	33	40	7	0.2	0.26	0.06	-0.87	-0.86	0	0	0	0	0	0
3/27/2024 21:31	46302	ROHR_T1	4	11	7	2	0.89	-1.11	0.16	0.16	0	0	0	0	0	0
3/27/2024 21:31	45702	LIND_T2	1	1	0	0.2	0.5	0.3	-0.57	-0.59	0	0	0	0	0	0
3/27/2024 21:31	42701	AUGU_T1	4	1	-3	0.3	1	0.7	0	0	2	2	0	1800	1800	0
3/27/2024 21:31	62604	ENGL_T1	0	0	0	0	0	0	-0.55	-0.54	1	1	0	600	600	0
3/27/2024 21:32	46503	LOHA_T1	11	4	-7	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/27/2024 21:32	45001	LIME_2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/27/2024 21:32	45003	LIME_2	2	1	-1	2.45	3	0.55	0	0	0	0	0	0	0	0
3/27/2024 21:32	46502	LOHA_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
3/27/2024 21:32	20401	ASHF_T2	0	1	1	0	0	0	-0.43	-0.43	0	0	0	0	0	0
3/27/2024 21:32	46506	LOHA_T1	150	143	-7	0.15	0.16	0.01	0	0	0	0	0	0	0	0
3/27/2024 21:32	46801	HEPB_T2	2	2	0	0.45	0.55	0.1	0.54	0.53	0	0	0	0	0	0
3/27/2024 21:32	45002	LIME_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/27/2024 21:32	46504	LOHA_T1	42	85	43	0.22	0.24	0.02	0	0	0	0	0	0	0	0
3/27/2024 21:33	46503	LOHA_T1	11	4	-7	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/27/2024 21:33	46504	LOHA_T1	42	85	43	0.22	0.24	0.02	0	0	0	0	0	0	0	0
3/27/2024 21:33	57403	SPAN_T1	29	93	64	0.27	0.25	-0.02	0.02	0.04	0	0	0	0	0	0
3/27/2024 21:33	46506	LOHA_T1	150	143	-7	0.15	0.16	0.01	-0.48	-0.49	0	0	0	0	0	0
3/27/2024 21:33	45303	WBER_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
3/27/2024 21:33	66503	SMAN_T2	0	12	12	0	0.14	0.14	0	0	0	0	0	0	0	0
3/27/2024 21:33	66505	SMAN_T2	3	3	0	1.43	1.3	-0.13	-0.52	-0.51	1	1	0	900	900	0
3/27/2024 21:33	57401	SPAN_T1	2	2	0	0.75	0.85	0.1	-0.89	-0.95	1	1	0	600	600	0
3/27/2024 21:34	28604	BLYT_T2	0	0	0	0	0	0	-1.52	-1.54	0	0	0	0	0	0
3/27/2024 21:34	41902	REED_T1	0	0	0	0	0	0	1.94	1.94	0	0	0	0	0	0
3/27/2024 21:34	67402	WAKE_T2	0	0	0	0	0	0	0.19	0.15	0	0	0	0	0	0
3/27/2024 21:34	41901	REED_T1	2	7	5	0.2	0.21	0.01	0	0	0	0	0	0	0	0
3/27/2024 21:35	45402	WBLO_T2	33	40	7	0.2	0.26	0.06	-0.87	-0.86	0	0	0	0	0	0
3/27/2024 21:36	46503	LOHA_T1	11	4	-7	0.13	0.1	-0.03	-0.63	-0.63	0	0	0	0	0	0
3/27/2024 21:36	46506	LOHA_T1	150	143	-7	0.15	0.16	0.01	-0.48	-0.49	0	0	0	0	0	0
3/27/2024 21:36	41902	REED_T1	0	0	0	0	0	0	0.97	0.97	0	0	0	0	0	0
3/27/2024 21:36	41901	REED_T1	2	7	5	0.2	0.21	0.01	0	0	0	0	0	0	0	0
3/27/2024 21:36	46504	LOHA_T1	42	85	43	0.22	0.24	0.02	0	0	0	0	0	0	0	0
3/27/2024 21:37	64305	LINC_T1	0	2	2	0	0.15	0.15	-0.57	-0.67	0	0	0	0	0	0
3/27/2024 21:38	46504	LOHA_T1	42	85	43	0.22	0.24	0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/27/2024 21:38	46506	LOHA_T1	150	143	-7	0.15	0.16	0.01	-0.49	-0.49	0	0	0	0	0	0
3/27/2024 21:38	46503	LOHA_T1	11	4	-7	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/27/2024 21:39	45602	WOOL_T1	4	3	-1	1.05	1.13	0.08	0.36	0.33	0	0	0	0	0	0
3/27/2024 21:42	46503	LOHA_T1	11	4	-7	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/27/2024 21:42	53902	HALI_T2	1	1	0	4.9	5.1	0.2	0	0	0	0	0	0	0	0
3/27/2024 21:42	53901	HALI_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
3/27/2024 21:42	53903	HALI_T2	2	2	0	1.25	1.4	0.15	-0.15	-0.21	0	0	0	0	0	0
3/27/2024 21:42	46506	LOHA_T1	150	143	-7	0.15	0.16	0.01	-0.49	-0.49	0	0	0	0	0	0
3/27/2024 21:42	46504	LOHA_T1	42	85	43	0.22	0.24	0.02	0	0	0	0	0	0	0	0
3/27/2024 21:43	46504	LOHA_T1	42	85	43	0.22	0.24	0.02	0	0	0	0	0	0	0	0
3/27/2024 21:43	46506	LOHA_T1	150	143	-7	0.15	0.16	0.01	0	0	0	0	0	0	0	0
3/27/2024 21:43	46503	LOHA_T1	11	4	-7	0.13	0.1	-0.03	-0.63	-0.64	0	0	0	0	0	0
3/27/2024 22:15	40903	JESH_T1	170	212	42	0.25	0.31	0.06	0	0	0	0	0	0	0	0
3/27/2024 22:15	40901	JESH_T1	143	182	39	0.33	0.4	0.07	0	0	0	0	0	0	0	0
3/27/2024 22:15	40902	JESH_T1	253	550	297	0.17	0.23	0.06	-0.88	-0.89	0	0	0	0	0	0
3/27/2024 22:28	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/28/2024 4:02	58402	MORO_T1	0	0	0	0	0	0	-0.47	-0.49	2	2	0	1500	1500	0
3/28/2024 7:52	26001	WDAM_T1	0	0	0	0	0	0	-0.7	-0.73	0	0	0	0	0	0
3/28/2024 7:53	45501	DERR_T2	0	0	0	0	0	0	0.85	0.72	2	2	0	1800	1800	0
3/28/2024 7:53	45502	DERR_T2	4	2	-2	0.48	0.65	0.17	0	0	0	0	0	0	0	0
3/28/2024 8:08	46206	DANV_T2	3	0	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
3/28/2024 8:08	46203	DANV_T2	0	107	107	0	0.41	0.41	-1.08	-1.03	0	0	0	0	0	0
3/28/2024 8:12	46206	DANV_T2	3	0	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
3/28/2024 8:12	46203	DANV_T2	0	107	107	0	0.41	0.41	-1.08	-1.03	0	0	0	0	0	0
3/28/2024 8:14	24902	WHHA_T1	48	6	-42	0.56	0.97	0.41	0	0	0	0	0	0	0	0
3/28/2024 8:17	58402	MORO_T1	0	0	0	0	0	0	-1.09	-1.01	3	3	0	2400	2400	0
3/28/2024 8:20	58402	MORO_T1	0	0	0	0	0	0	-1.09	-1.01	3	3	0	2400	2400	0
3/28/2024 8:26	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/28/2024 8:26	52404	GRPA_T2	0	0	0	0	0	0	0.28	0.39	0	0	0	0	0	0
3/28/2024 8:26	52403	GRPA_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
3/28/2024 8:26	52402	GRPA_T2	5	7	2	0.88	1.14	0.26	0	0	0	0	0	0	0	0
3/28/2024 8:31	52404	GRPA_T2	0	0	0	0	0	0	0.28	0.39	0	0	0	0	0	0
3/28/2024 8:31	52403	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/28/2024 8:31	52401	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/28/2024 8:31	52402	GRPA_T2	7	5	-2	0.97	1.64	0.67	0	0	0	0	0	0	0	0
3/28/2024 8:37	59101	WALK_T2	0	0	0	0	0	0	1.66	1.62	0	0	0	0	0	0
3/28/2024 8:54	56802	BENV_T2	228	288	60	0.38	0.54	0.16	-1.43	-1.48	0	0	0	0	0	0
3/28/2024 8:55	56802	BENV_T2	228	288	60	0.38	0.54	0.16	-1.43	-1.48	0	0	0	0	0	0
3/28/2024 9:06	67402	WAKE_T2	0	0	0	0	0	0	0.45	0.51	1	1	0	600	600	0
3/28/2024 9:12	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 9:15	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 9:23	56802	BENV_T2	280	283	3	0.55	0.5	-0.05	-1.49	-1.48	0	0	0	0	0	0
3/28/2024 9:24	56802	BENV_T2	280	283	3	0.55	0.5	-0.05	-1.49	-1.48	0	0	0	0	0	0
3/28/2024 9:26	56802	BENV_T2	280	283	3	0.55	0.5	-0.05	-1.49	-1.48	0	0	0	0	0	0
3/28/2024 9:26	10705	CATA_T2	0	0	0	0	0	0	-0.85	-0.96	1	1	0	900	900	0
3/28/2024 9:29	52401	GRPA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/28/2024 9:29	52402	GRPA_T2	4	4	0	1.15	1.33	0.18	-0.95	-0.95	0	0	0	0	0	0
3/28/2024 9:29	40101	HUNT_T2	1	4	3	0.1	0.2	0.1	-0.32	-0.3	0	0	0	0	0	0
3/28/2024 9:30	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 9:30	52402	GRPA_T2	4	4	0	1.33	1.08	-0.25	-0.95	-0.95	0	0	0	0	0	0
3/28/2024 9:30	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/28/2024 9:34	56501	ROCK_T2	3	4	1	0.2	0.25	0.05	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 9:35	59101	WALK_T2	0	0	0	0	0	0	2.03	1.75	0	0	0	0	0	0
3/28/2024 9:36	56501	ROCK_T2	3	4	1	0.2	0.25	0.05	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 9:36	59101	WALK_T2	0	0	0	0	0	0	2.03	1.75	0	0	0	0	0	0
3/28/2024 9:42	46203	DANV_T2	167	185	18	0.56	0.69	0.13	-1.06	-1.08	0	0	0	0	0	0
3/28/2024 9:46	25402	LAHA_T2	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
3/28/2024 9:48	41901	REED_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
3/28/2024 9:48	43202	MVIL_T2	49	58	9	0.24	0.34	0.1	-0.63	-0.64	0	0	0	0	0	0
3/28/2024 9:48	41902	REED_T1	1	0	-1	0.2	0	-0.2	2.13	2.24	0	0	0	0	0	0
3/28/2024 9:49	14403	SSLA_T1	0	0	0	0	0	0	0.75	0.73	0	0	0	0	0	0
3/28/2024 9:49	14401	SSLA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/28/2024 9:49	14404	SSLA_T1	2	2	0	3.35	3.25	-0.1	0	0	0	0	0	0	0	0
3/28/2024 9:49	14402	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/28/2024 9:51	43202	MVIL_T2	49	58	9	0.24	0.34	0.1	-0.63	-0.64	0	0	0	0	0	0
3/28/2024 9:52	41901	REED_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
3/28/2024 9:52	41902	REED_T1	1	0	-1	0.2	0	-0.2	1.06	1.12	0	0	0	0	0	0
3/28/2024 9:53	14402	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/28/2024 9:53	14404	SSLA_T1	2	2	0	3.35	3.25	-0.1	0	0	0	0	0	0	0	0
3/28/2024 9:53	20403	ASHF_T2	11	4	-7	0.15	0.1	-0.05	0.14	0.19	0	0	0	0	0	0
3/28/2024 9:53	14401	SSLA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/28/2024 9:53	14403	SSLA_T1	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
3/28/2024 9:56	20403	ASHF_T2	11	4	-7	0.15	0.1	-0.05	0.14	0.19	0	0	0	0	0	0
3/28/2024 9:57	66504	SMAN_T2	0	0	0	0	0	0	-0.78	-0.73	0	0	0	0	0	0
3/28/2024 9:58	64702	LITI_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
3/28/2024 9:58	40902	JESH_T1	0	0	0	0	0	0	-0.36	-0.32	0	0	0	0	0	0
3/28/2024 9:59	52401	GRPA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/28/2024 9:59	40902	JESH_T1	0	0	0	0	0	0	-0.36	-0.32	0	0	0	0	0	0
3/28/2024 9:59	52404	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 9:59	52402	GRPA_T2	2	4	2	1.9	1.15	-0.75	0	0	0	0	0	0	0	0
3/28/2024 9:59	52403	GRPA_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/28/2024 10:00	58001	WCAR_T1	6	6	0	0.78	0.95	0.17	0	0	0	0	0	0	0	0
3/28/2024 10:00	56501	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/28/2024 10:00	52402	GRPA_T2	4	4	0	1.08	1.3	0.22	-0.94	-0.93	0	0	0	0	0	0
3/28/2024 10:00	24105	EHAZ_T1	4	4	0	6.38	6.33	-0.05	-0.67	-0.7	1	1	0	1200	1200	0
3/28/2024 10:00	55001	NEWP_T1	5	8	3	0.18	0.2	0.02	0	0	0	0	0	0	0	0
3/28/2024 10:00	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/28/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	-0.05	-0.05	1	1	0	600	600	0
3/28/2024 10:00	53901	HALI_T2	1	10	9	1.3	0.21	-1.09	0	0	0	0	0	0	0	0
3/28/2024 10:00	53903	HALI_T2	2	2	0	1.6	1.6	0	-0.14	-0.14	0	0	0	0	0	0
3/28/2024 10:00	64702	LITI_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
3/28/2024 10:00	41902	REED_T1	0	0	0	0	0	0	3.35	3.46	0	0	0	0	0	0
3/28/2024 10:00	57401	SPAN_T1	2	3	1	0.85	0.8	-0.05	-1.24	-1.2	1	1	0	600	600	0
3/28/2024 10:00	45602	WOOL_T1	5	6	1	0.58	0.52	-0.06	0.91	0.87	0	0	0	0	0	0
3/28/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.27	-0.33	1	1	0	600	600	0
3/28/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	-0.33	-0.29	2	2	0	1200	1200	0
3/28/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-0.58	-0.61	1	1	0	1200	1200	0
3/28/2024 10:00	12505	MITR_T2	0	0	0	0	0	0	1.08	1.16	0	0	0	0	0	0
3/28/2024 10:00	57303	MOAL_T2	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
3/28/2024 10:00	53902	HALI_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
3/28/2024 10:00	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
3/28/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-0.8	-0.79	1	1	0	600	600	0
3/28/2024 10:00	29402	BELT_T1	1	1	0	6.8	7.5	0.7	0	0	0	0	0	0	0	0
3/28/2024 10:00	57304	MOAL_T2	0	0	0	0	0	0	-0.59	-0.95	0	0	0	0	0	0
3/28/2024 10:00	17002	RIRO_T2	0	24	24	0	0.15	0.15	0.65	0.67	0	0	0	0	0	0
3/28/2024 10:00	20601	GRWO_T2	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
3/28/2024 10:00	41901	REED_T1	2	4	2	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/28/2024 10:00	48302	ORWI_T2	2	2	0	1.1	0.95	-0.15	0.01	0.05	0	0	0	0	0	0
3/28/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
3/28/2024 10:00	67605	WARW_T1	13	7	-6	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
3/28/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.49	0.43	0	0	0	0	0	0
3/28/2024 10:00	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.04	1	1	0	600	600	0
3/28/2024 10:00	12502	MITR_T2	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
3/28/2024 10:00	55002	NEWP_T1	6	7	1	1.12	1.19	0.07	-0.56	-0.44	0	0	0	0	0	0
3/28/2024 10:00	58003	WCAR_T1	48	50	2	0.23	0.21	-0.02	0.74	0.73	0	0	0	0	0	0
3/28/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.36	-0.32	0	0	0	0	0	0
3/28/2024 10:00	40101	HUNT_T2	12	67	55	0.39	0.33	-0.06	-0.59	-0.51	0	0	0	0	0	0
3/28/2024 10:00	42903	MIDD_T2	0	0	0	0	0	0	0.2	0.37	1	1	0	1200	1200	0
3/28/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
3/28/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	-0.81	-0.8	0	0	0	0	0	0
3/28/2024 10:00	52404	GRPA_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/28/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.44	0.43	1	1	0	600	600	0
3/28/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.76	0.88	0	0	0	0	0	0
3/28/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	-0.47	-0.53	1	1	0	600	600	0
3/28/2024 10:00	10801	CHHI_T1	0	0	0	0	0	0	-0.87	-0.78	1	1	0	900	900	0
3/28/2024 10:06	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 10:06	57401	SPAN_T1	2	3	1	0.85	0.8	-0.05	-1.24	-1.2	1	1	0	600	600	0
3/28/2024 10:06	51401	LYKE_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
3/28/2024 10:07	55002	NEWP_T1	6	7	1	1.12	1.19	0.07	-0.56	-0.44	0	0	0	0	0	0
3/28/2024 10:07	47104	MARL_T1	0	1	1	0	0	0	0.47	0.45	0	0	0	0	0	0
3/28/2024 10:07	60801	BUCK_T1	0	0	0	0	0	0	0.07	0.1	0	0	0	0	0	0
3/28/2024 10:07	10801	CHHI_T1	0	0	0	0	0	0	-0.87	-0.78	1	1	0	900	900	0
3/28/2024 10:07	42302	MOWR_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
3/28/2024 10:07	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/28/2024 10:07	55001	NEWP_T1	5	8	3	0.18	0.2	0.02	0	0	0	0	0	0	0	0
3/28/2024 10:07	67605	WARW_T1	13	7	-6	0.28	0.23	-0.05	-0.81	-0.83	0	0	0	0	0	0
3/28/2024 10:07	42301	MOWR_T2	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
3/28/2024 10:07	58402	MORO_T1	0	0	0	0	0	0	-0.92	-0.92	3	3	0	2400	2400	0
3/28/2024 10:07	57401	SPAN_T1	2	3	1	0.85	0.8	-0.05	-1.24	-1.2	1	1	0	600	600	0
3/28/2024 10:07	40101	HUNT_T2	12	67	55	0.39	0.33	-0.06	-0.29	-0.25	0	0	0	0	0	0
3/28/2024 10:07	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 10:08	67605	WARW_T1	13	7	-6	0.28	0.23	-0.05	-0.83	-0.82	0	0	0	0	0	0
3/28/2024 10:08	46206	DANV_T2	0	0	0	0	0	0	2.22	2.2	1	1	0	1200	1200	0
3/28/2024 10:08	64305	LINC_T1	0	0	0	0	0	0	-0.04	0.03	0	0	0	0	0	0
3/28/2024 10:08	53502	EVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/28/2024 10:08	46203	DANV_T2	165	185	20	0.52	0.66	0.14	0	0	0	0	0	0	0	0
3/28/2024 10:08	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	900	900	0
3/28/2024 10:08	56802	BENV_T2	285	294	9	0.5	0.66	0.16	-2.89	-2.93	0	0	0	0	0	0
3/28/2024 10:08	53501	EVIL_T2	2	2	0	0.85	0.55	-0.3	-0.49	-0.48	1	1	0	600	600	0
3/28/2024 10:09	56802	BENV_T2	285	294	9	0.5	0.66	0.16	-2.89	-2.93	0	0	0	0	0	0
3/28/2024 10:09	20403	ASHF_T2	4	0	-4	0.1	0	-0.1	0.38	0.28	0	0	0	0	0	0
3/28/2024 10:09	46203	DANV_T2	165	185	20	0.52	0.66	0.14	-1.08	-1.09	0	0	0	0	0	0
3/28/2024 10:09	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 10:09	58001	WCAR_T1	6	6	0	0.78	0.95	0.17	0	0	0	0	0	0	0	0
3/28/2024 10:09	58003	WCAR_T1	48	50	2	0.23	0.21	-0.02	1.46	1.46	0	0	0	0	0	0
3/28/2024 10:10	53501	EVIL_T2	2	2	0	0.85	0.55	-0.3	-0.49	-0.48	1	1	0	600	600	0
3/28/2024 10:10	10801	CHHI_T1	0	0	0	0	0	0	-0.78	-0.89	1	1	0	900	900	0
3/28/2024 10:10	53502	EVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/28/2024 10:10	56802	BENV_T2	285	294	9	0.5	0.66	0.16	-5.78	-5.87	0	0	0	0	0	0
3/28/2024 10:10	67402	WAKE_T2	0	0	0	0	0	0	0.43	0.4	1	1	0	600	600	0
3/28/2024 10:11	20403	ASHF_T2	4	0	-4	0.1	0	-0.1	0.19	0.14	0	0	0	0	0	0
3/28/2024 10:11	56802	BENV_T2	285	294	9	0.5	0.66	0.16	-2.89	-2.93	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/28/2024 10:12	12701	MACU_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
3/28/2024 10:12	25402	LAHA_T2	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
3/28/2024 10:12	10805	CHHI_T2	6	7	1	1.55	1.59	0.04	-0.6	-0.43	1	1	0	600	600	0
3/28/2024 10:13	52404	GRPA_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/28/2024 10:13	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 10:13	52403	GRPA_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/28/2024 10:13	24902	WHHA_T1	11	6	-5	1.07	0.88	-0.19	0	0	0	0	0	0	0	0
3/28/2024 10:13	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/28/2024 10:13	46203	DANV_T2	165	185	20	0.52	0.66	0.14	-1.08	-1.09	0	0	0	0	0	0
3/28/2024 10:13	52402	GRPA_T2	4	4	0	1.08	1.3	0.22	0	0	0	0	0	0	0	0
3/28/2024 10:13	45501	DERR_T2	0	0	0	0	0	0	0.64	0.65	2	2	0	1800	1800	0
3/28/2024 10:13	56802	BENV_T2	285	294	9	0.5	0.66	0.16	-1.44	-1.47	0	0	0	0	0	0
3/28/2024 10:13	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 10:14	20403	ASHF_T2	4	0	-4	0.1	0	-0.1	0.19	0.14	0	0	0	0	0	0
3/28/2024 10:15	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 10:15	24902	WHHA_T1	6	15	9	0.95	0.88	-0.07	0	0	0	0	0	0	0	0
3/28/2024 10:15	52401	GRPA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/28/2024 10:15	52404	GRPA_T2	1	0	-1	1	0	-1	1.43	0.75	0	0	0	0	0	0
3/28/2024 10:15	52402	GRPA_T2	4	4	0	1	1.35	0.35	0	0	0	0	0	0	0	0
3/28/2024 10:15	52403	GRPA_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/28/2024 10:16	40101	HUNT_T2	67	14	-53	0.4	0	-0.4	-0.25	-0.42	0	0	0	0	0	0
3/28/2024 10:16	52402	GRPA_T2	4	4	0	1	1.35	0.35	-0.93	-0.91	0	0	0	0	0	0
3/28/2024 10:16	43202	MVIL_T2	47	9	-38	0.24	0.21	-0.03	-0.62	-0.66	0	0	0	0	0	0
3/28/2024 10:16	52404	GRPA_T2	1	0	-1	1	0	-1	1.43	0.75	0	0	0	0	0	0
3/28/2024 10:16	52401	GRPA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/28/2024 10:20	57403	SPAN_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
3/28/2024 10:20	43202	MVIL_T2	47	9	-38	0.24	0.21	-0.03	-0.62	-0.66	0	0	0	0	0	0
3/28/2024 10:20	57401	SPAN_T1	2	2	0	0.65	0.8	0.15	0	0	0	0	0	0	0	0
3/28/2024 10:23	49803	UNIV_T1	0	0	0	0	0	0	-1.02	-0.99	0	0	0	0	0	0
3/28/2024 10:23	57401	SPAN_T1	2	2	0	0.65	0.8	0.15	-1.25	-1.19	1	1	0	600	600	0
3/28/2024 10:23	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/28/2024 10:24	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-1	1	1	0	600	600	0
3/28/2024 10:24	54502	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/28/2024 10:24	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/28/2024 10:27	46004	BERW_T2	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
3/28/2024 10:28	40101	HUNT_T2	67	14	-53	0.4	0	-0.4	-0.42	-0.32	0	0	0	0	0	0
3/28/2024 10:28	53601	DALM_T2	1	1	0	0.1	0.4	0.3	-0.6	-0.55	1	1	0	900	900	0
3/28/2024 10:28	57401	SPAN_T1	2	2	0	0.65	0.8	0.15	-1.25	-1.19	1	1	0	600	600	0
3/28/2024 10:30	46801	HEPB_T2	2	2	0	0.45	0.5	0.05	0.6	0.61	0	0	0	0	0	0
3/28/2024 10:31	63602	LETO_T1	0	0	0	0	0	0	-0.57	-0.51	0	0	0	0	0	0
3/28/2024 10:32	64204	KINZ_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/28/2024 10:32	64203	KINZ_T1	0	0	0	0	0	0	0.96	0.97	1	1	0	600	600	0
3/28/2024 10:35	45402	WBLO_T2	2	2	0	0.4	0.6	0.2	-0.78	-0.8	0	0	0	0	0	0
3/28/2024 10:38	45402	WBLO_T2	2	2	0	0.4	0.6	0.2	-0.8	-0.85	0	0	0	0	0	0
3/28/2024 10:39	59101	WALK_T2	0	0	0	0	0	0	1.83	2.2	0	0	0	0	0	0
3/28/2024 10:39	26001	WDAM_T1	0	0	0	0	0	0	-0.78	-0.72	0	0	0	0	0	0
3/28/2024 10:42	56801	BENV_T1	25	23	-2	0.42	0.41	-0.01	-0.83	-0.83	1	1	0	600	600	0
3/28/2024 10:43	56802	BENV_T2	280	271	-9	0.67	0.47	-0.2	-1.48	-1.42	0	0	0	0	0	0
3/28/2024 10:44	66505	SMAN_T2	0	0	0	0	0	0	0.23	0.11	2	2	0	1100	1100	0
3/28/2024 10:46	40902	JESH_T1	0	0	0	0	0	0	-0.43	-0.23	0	0	0	0	0	0
3/28/2024 10:51	67204	TEHI_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
3/28/2024 10:52	55105	WERT_T1	0	0	0	0	0	0	-0.65	-0.56	0	0	0	0	0	0
3/28/2024 10:56	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 10:56	62604	ENGL_T1	0	0	0	0	0	0	-0.41	-0.37	1	1	0	600	600	0
3/28/2024 10:57	40602	PIGR_T1	0	1	1	0	0.2	0.2	-0.64	-0.63	1	1	0	600	600	0
3/28/2024 10:58	62604	ENGL_T1	0	0	0	0	0	0	-0.41	-0.37	1	1	0	600	600	0
3/28/2024 10:58	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 11:05	41902	REED_T1	0	0	0	0	0	0	1.05	1.09	0	0	0	0	0	0
3/28/2024 11:05	41901	REED_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/28/2024 11:06	45602	WOOL_T1	2	7	5	0.4	0.34	-0.06	0.46	0.46	0	0	0	0	0	0
3/28/2024 11:07	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 11:10	59101	WALK_T2	0	0	0	0	0	0	2.19	2.16	0	0	0	0	0	0
3/28/2024 11:10	59102	WALK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/28/2024 11:12	45602	WOOL_T1	2	7	5	0.4	0.34	-0.06	0.46	0.46	0	0	0	0	0	0
3/28/2024 11:13	45702	LIND_T2	1	0	-1	0.1	0	-0.1	-0.42	-0.44	0	0	0	0	0	0
3/28/2024 11:19	67204	TEHI_T2	0	0	0	0	0	0	-0.03	-0.08	0	0	0	0	0	0
3/28/2024 11:20	65901	SAKR_T2	1	1	0	8.5	8.6	0.1	-1.03	-1.13	1	1	0	900	900	0
3/28/2024 11:22	45602	WOOL_T1	2	10	8	0.6	0.5	-0.1	0.46	0.46	0	0	0	0	0	0
3/28/2024 11:23	67204	TEHI_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
3/28/2024 11:25	54502	ENOL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/28/2024 11:25	54505	ENOL_T2	1	1	0	1	1	0	-1.36	-1.36	1	1	0	600	600	0
3/28/2024 11:27	45602	WOOL_T1	2	10	8	0.6	0.5	-0.1	0.46	0.39	0	0	0	0	0	0
3/28/2024 11:32	64902	MILL_T2	0	0	0	0	0	0	-0.78	-0.78	1	1	0	900	900	0
3/28/2024 11:33	64702	LITI_T2	0	0	0	0	0	0	-0.77	-0.83	0	0	0	0	0	0
3/28/2024 11:34	43202	MVIL_T2	5	57	52	0.12	0.32	0.2	-0.61	-0.64	0	0	0	0	0	0
3/28/2024 11:36	56501	ROCK_T2	5	2	-3	0.26	0.1	-0.16	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 11:36	65901	SAKR_T2	1	1	0	8.5	9	0.5	-1.13	-1.21	1	1	0	900	900	0
3/28/2024 11:37	41902	REED_T1	0	0	0	0	0	0	1.08	1.1	0	0	0	0	0	0
3/28/2024 11:37	41901	REED_T1	2	8	6	0.15	0.16	0.01	0	0	0	0	0	0	0	0
3/28/2024 11:37	26001	WDAM_T1	0	0	0	0	0	0	-0.78	-0.72	0	0	0	0	0	0
3/28/2024 11:37	64902	MILL_T2	0	0	0	0	0	0	-0.78	-0.78	1	1	0	900	900	0
3/28/2024 11:40	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 11:42	56501	ROCK_T2	5	2	-3	0.26	0.1	-0.16	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 11:47	40101	HUNT_T2	0	0	0	0	0	0	-0.34	-0.42	0	0	0	0	0	0
3/28/2024 11:48	64902	MILL_T2	0	0	0	0	0	0	-0.78	-0.71	1	1	0	900	900	0
3/28/2024 11:48	41901	REED_T1	3	9	6	0.2	0.44	0.24	0	0	0	0	0	0	0	0
3/28/2024 11:48	64903	MILL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 11:48	41902	REED_T1	0	0	0	0	0	0	1.1	1.05	0	0	0	0	0	0
3/28/2024 11:52	56501	ROCK_T2	2	1	-1	0.35	0.2	-0.15	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 11:52	26001	WDAM_T1	0	0	0	0	0	0	-0.72	-0.78	0	0	0	0	0	0
3/28/2024 11:57	66505	SMAN_T2	0	0	0	0	0	0	0.07	0.03	2	2	0	1100	1100	0
3/28/2024 11:57	56501	ROCK_T2	2	1	-1	0.35	0.2	-0.15	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 11:58	59101	WALK_T2	0	0	0	0	0	0	2.19	1.92	0	0	0	0	0	0
3/28/2024 11:58	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/28/2024 12:05	13302	ORVI_T2	0	7	7	0	0.13	0.13	1.36	1.4	0	0	0	0	0	0
3/28/2024 12:08	59101	WALK_T2	0	0	0	0	0	0	1.92	1.91	0	0	0	0	0	0
3/28/2024 12:08	56501	ROCK_T2	0	2	2	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 12:08	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/28/2024 12:13	66505	SMAN_T2	0	3	3	0	0.23	0.23	0.03	-0.02	2	2	0	1100	1100	0
3/28/2024 12:13	56501	ROCK_T2	0	2	2	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 12:18	42002	MNVL_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
3/28/2024 12:18	42001	MNVL_T2	1	2	1	0.1	0	-0.1	0.03	0.05	0	0	0	0	0	0
3/28/2024 12:21	54206	PENN_T2	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/28/2024 12:21	54202	PENN_T2	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
3/28/2024 12:24	56501	ROCK_T2	1	4	3	0.2	0.13	-0.07	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 12:26	40602	PIGR_T1	0	0	0	0	0	0	-0.67	-0.69	1	1	0	600	600	0
3/28/2024 12:28	54502	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/28/2024 12:28	54505	ENOL_T2	1	1	0	1	1.1	0.1	-1.33	-1.31	1	1	0	600	600	0
3/28/2024 12:29	56501	ROCK_T2	1	4	3	0.2	0.13	-0.07	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 12:40	26001	WDAM_T1	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
3/28/2024 13:22	14403	SSLA_T1	0	0	0	0	0	0	0.77	0.75	0	0	0	0	0	0
3/28/2024 13:22	53901	HALI_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
3/28/2024 13:22	50102	HARR_T3	1	5	4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/28/2024 13:22	14404	SSLA_T1	2	2	0	2.75	2.9	0.15	0	0	0	0	0	0	0	0
3/28/2024 13:22	50201	HARR_T3	1	2	1	9.5	5	-4.5	0	0	0	0	0	0	0	0
3/28/2024 13:22	53902	HALI_T2	1	2	1	6.1	3.3	-2.8	0	0	0	0	0	0	0	0
3/28/2024 13:22	67605	WARW_T1	23	34	11	0.57	0.51	-0.06	-1.09	-1.13	0	0	0	0	0	0
3/28/2024 13:22	50103	HARR_T3	0	2	2	0	0.4	0.4	-1.07	-1.04	1	1	0	1200	1200	0
3/28/2024 13:22	53903	HALI_T2	2	2	0	1.4	1.65	0.25	-0.14	-0.14	0	0	0	0	0	0
3/28/2024 13:22	50105	HARR_T3	8	8	0	6.16	5.9	-0.26	0	0	0	0	0	0	0	0
3/28/2024 13:22	14402	SSLA_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/28/2024 13:23	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 13:24	60803	BUCK_T1	0	0	0	0	0	0	-0.54	-0.53	1	1	0	600	600	0
3/28/2024 13:24	54202	PENN_T2	3	19	16	0.1	0.14	0.04	0	0	0	0	0	0	0	0
3/28/2024 13:24	54206	PENN_T2	33	45	12	0.11	0.15	0.04	0	0	0	0	0	0	0	0
3/28/2024 13:24	42002	MNVL_T2	1	2	1	6.3	3.15	-3.15	0	0	0	0	0	0	0	0
3/28/2024 13:24	42001	MNVL_T2	3	8	5	0.23	0.5	0.27	-0.02	-0.03	0	0	0	0	0	0
3/28/2024 13:24	56501	ROCK_T2	5	10	5	0.2	0.37	0.17	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 13:25	10805	CHHI_T2	8	6	-2	2.01	8.3	6.29	-0.67	-0.77	1	1	0	600	600	0
3/28/2024 13:25	59102	WALK_T2	18	2	-16	0.28	0.3	0.02	0	0	0	0	0	0	0	0
3/28/2024 13:25	46004	BERW_T2	1	1	0	1.2	1.5	0.3	-0.76	-0.76	0	0	0	0	0	0
3/28/2024 13:25	56802	BENV_T2	96	224	128	0.24	0.32	0.08	-1.33	-0.7	0	0	0	0	0	0
3/28/2024 13:25	59101	WALK_T2	2	0	-2	0.6	0	-0.6	1.67	1.74	0	0	0	0	0	0
3/28/2024 13:27	67502	WEWI_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
3/28/2024 13:27	53501	EVIL_T2	2	2	0	0.3	1.15	0.85	-0.86	-0.91	1	1	0	600	600	0
3/28/2024 13:27	14801	TREI_T2	0	3	3	0	0.33	0.33	0.44	0.41	0	0	0	0	0	0
3/28/2024 13:27	12701	MACU_T1	0	1	1	0	0	0	0.13	0.14	0	0	0	0	0	0
3/28/2024 13:27	46004	BERW_T2	1	1	0	1.2	1.5	0.3	-0.76	-0.76	0	0	0	0	0	0
3/28/2024 13:27	52501	PROG_T1	0	0	0	0	0	0	0.36	0.38	1	1	0	300	300	0
3/28/2024 13:27	53502	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/28/2024 13:28	54501	ENOL_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/28/2024 13:28	54504	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/28/2024 13:28	54505	ENOL_T2	1	2	1	1.2	0.85	-0.35	0	0	0	0	0	0	0	0
3/28/2024 13:28	54503	ENOL_T2	0	0	0	0	0	0	-1.35	-1.35	1	1	0	600	600	0
3/28/2024 13:28	54502	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
3/28/2024 13:29	54501	ENOL_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/28/2024 13:29	54505	ENOL_T2	1	2	1	1.2	0.85	-0.35	-1.37	-1.37	1	1	0	600	600	0
3/28/2024 13:29	54504	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/28/2024 13:29	54502	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
3/28/2024 13:30	16402	MOPO_T1	0	1	1	0	0	0	0	0.05	0	0	0	0	0	0
3/28/2024 13:30	50102	HARR_T3	3	5	2	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
3/28/2024 13:30	50103	HARR_T3	2	2	0	0.3	0.7	0.4	-1.04	-1.05	1	1	0	1200	1200	0
3/28/2024 13:30	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/28/2024 13:30	54503	ENOL_T2	0	0	0	0	0	0	-1.35	-1.35	1	1	0	600	600	0
3/28/2024 13:30	65003	NEFF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/28/2024 13:30	40601	PIGR_T1	2	12	10	0.15	0.16	0.01	0	0	0	0	0	0	0	0
3/28/2024 13:30	41801	GOCI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/28/2024 13:30	53501	EVIL_T2	2	2	0	1	1.2	0.2	-0.86	-0.91	1	1	0	600	600	0
3/28/2024 13:30	50201	HARR_T3	2	2	0	4.9	5	0.1	0	0	0	0	0	0	0	0
3/28/2024 13:30	50105	HARR_T3	8	8	0	5.96	5.95	-0.01	0	0	0	0	0	0	0	0
3/28/2024 13:30	53502	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/28/2024 13:30	67502	WEWI_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
3/28/2024 13:30	54505	ENOL_T2	2	1	-1	0.85	1.3	0.45	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/28/2024 13:30	40602	PIGR_T1	0	0	0	0	0	0	-1.44	-1.36	2	2	0	1200	1200	0
3/28/2024 13:30	54501	ENOL_T2	2	4	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/28/2024 13:30	65001	NEFF_T2	0	0	0	0	0	0	-0.59	-0.63	1	1	0	1200	1200	0
3/28/2024 13:31	64802	MONE_T2	84	179	95	0.2	0.19	-0.01	-0.1	-0.12	0	0	0	0	0	0
3/28/2024 13:31	64801	MONE_T2	49	63	14	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
3/28/2024 13:32	66703	STRA_T1	0	0	0	0	0	0	-0.13	-0.1	0	0	0	0	0	0
3/28/2024 13:33	52401	GRPA_T2	1	2	1	0.7	0.45	-0.25	-1.01	-1.04	0	0	0	0	0	0
3/28/2024 13:33	27502	WEIS_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
3/28/2024 13:33	43201	MVIL_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
3/28/2024 13:33	54505	ENOL_T2	2	1	-1	0.85	1.3	0.45	-2.75	-2.74	2	2	0	1200	1200	0
3/28/2024 13:33	46203	DANV_T2	179	247	68	0.64	1.05	0.41	-1.1	-1.09	0	0	0	0	0	0
3/28/2024 13:33	54501	ENOL_T2	2	4	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/28/2024 13:33	44302	BEAV_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
3/28/2024 13:33	52403	GRPA_T2	10	9	-1	0.24	0.26	0.02	0	0	0	0	0	0	0	0
3/28/2024 13:33	56501	ROCK_T2	10	7	-3	0.32	0.27	-0.05	-0.02	-0.02	0	0	0	0	0	0
3/28/2024 13:33	52402	GRPA_T2	6	9	3	1.27	0.91	-0.36	0	0	0	0	0	0	0	0
3/28/2024 13:33	43202	MVIL_T2	60	67	7	0.44	0.51	0.07	0	0	0	0	0	0	0	0
3/28/2024 13:33	54206	PENN_T2	42	43	1	0.11	0.15	0.04	0	0	0	0	0	0	0	0
3/28/2024 13:33	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/28/2024 13:33	27503	WEIS_T2	1	16	15	0.1	0.11	0.01	0	0	0	0	0	0	0	0
3/28/2024 13:33	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 13:33	54202	PENN_T2	18	23	5	0.13	0.13	0	0.66	0.74	0	0	0	0	0	0
3/28/2024 13:37	65003	NEFF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/28/2024 13:37	58001	WCAR_T1	3	3	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
3/28/2024 13:37	65001	NEFF_T2	0	0	0	0	0	0	-0.59	-0.63	1	1	0	1200	1200	0
3/28/2024 13:37	58003	WCAR_T1	1	1	0	1	1	0	0	0	1	1	0	600	600	0
3/28/2024 13:37	56501	ROCK_T2	10	7	-3	0.32	0.27	-0.05	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 13:37	57403	SPAN_T1	1	7	6	0.4	0.17	-0.23	0	0	0	0	0	0	0	0
3/28/2024 13:37	57401	SPAN_T1	4	3	-1	0.58	0.73	0.15	0	0	0	0	0	0	0	0
3/28/2024 13:38	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 13:38	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	900	900	0
3/28/2024 13:38	58003	WCAR_T1	1	1	0	1	1	0	0	0	1	1	0	600	600	0
3/28/2024 13:38	64802	MONE_T2	84	179	95	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
3/28/2024 13:38	40101	HUNT_T2	0	0	0	0	0	0	-0.86	-0.97	0	0	0	0	0	0
3/28/2024 13:38	53903	HALI_T2	2	2	0	1.65	1.6	-0.05	-0.19	-0.2	0	0	0	0	0	0
3/28/2024 13:38	53902	HALI_T2	2	1	-1	3.25	6.2	2.95	0	0	0	0	0	0	0	0
3/28/2024 13:38	54206	PENN_T2	42	43	1	0.11	0.15	0.04	0	0	0	0	0	0	0	0
3/28/2024 13:38	54202	PENN_T2	18	23	5	0.13	0.13	0	0	0	0	0	0	0	0	0
3/28/2024 13:38	58001	WCAR_T1	3	3	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
3/28/2024 13:38	67605	WARW_T1	31	30	-1	0.5	0.52	0.02	-1.11	-1.13	0	0	0	0	0	0
3/28/2024 13:38	53901	HALI_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/28/2024 13:38	64801	MONE_T2	49	63	14	0.3	0.29	-0.01	-0.34	-0.35	0	0	0	0	0	0
3/28/2024 13:39	14801	TREI_T2	1	3	2	0.1	0.33	0.23	0.41	0.42	0	0	0	0	0	0
3/28/2024 13:40	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 13:42	56501	ROCK_T2	10	7	-3	0.32	0.27	-0.05	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 13:44	47002	HUGH_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/28/2024 13:44	47001	HUGH_T2	3	1	-2	0.5	0.5	0	-0.79	-0.86	0	0	0	0	0	0
3/28/2024 13:53	56501	ROCK_T2	7	4	-3	0.27	0.23	-0.04	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 13:56	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 13:57	59101	WALK_T2	0	0	0	0	0	0	1.66	1.96	0	0	0	0	0	0
3/28/2024 13:57	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/28/2024 13:58	56501	ROCK_T2	7	4	-3	0.27	0.23	-0.04	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 14:01	23404	HONE_T1	1	3	2	1.2	0.47	-0.73	0	0	0	0	0	0	0	0
3/28/2024 14:01	23403	HONE_T1	2	13	11	0.1	0.12	0.02	-0.72	-0.72	0	0	0	0	0	0
3/28/2024 14:03	17002	RIRO_T2	4	2	-2	0.1	0.1	0	0.59	0.57	0	0	0	0	0	0
3/28/2024 14:06	26001	WDAM_T1	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
3/28/2024 14:06	58402	MORO_T1	0	0	0	0	0	0	-0.12	-0.17	2	2	0	1500	1500	0
3/28/2024 14:07	42701	AUGU_T1	0	1	1	0	0.8	0.8	0	0	2	2	0	1800	1800	0
3/28/2024 14:08	42701	AUGU_T1	0	1	1	0	0.8	0.8	0	0	2	2	0	1800	1800	0
3/28/2024 14:08	59101	WALK_T2	0	0	0	0	0	0	1.96	1.76	0	0	0	0	0	0
3/28/2024 14:09	56501	ROCK_T2	4	4	0	0.23	0.2	-0.03	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 14:09	59101	WALK_T2	0	0	0	0	0	0	1.96	1.76	0	0	0	0	0	0
3/28/2024 14:09	58402	MORO_T1	0	0	0	0	0	0	-0.17	-0.18	2	2	0	1500	1500	0
3/28/2024 14:10	42701	AUGU_T1	0	1	1	0	0.8	0.8	0	0	2	2	0	1800	1800	0
3/28/2024 14:11	41502	FAIR_T2	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
3/28/2024 14:11	42701	AUGU_T1	0	1	1	0	0.8	0.8	0	0	2	2	0	1800	1800	0
3/28/2024 14:12	53502	EVIL_T2	1	0	-1	6.7	0	-6.7	0	0	0	0	0	0	0	0
3/28/2024 14:12	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 14:12	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
3/28/2024 14:12	53501	EVIL_T2	2	2	0	0.9	1.1	0.2	-0.87	-1.08	1	1	0	600	600	0
3/28/2024 14:14	56501	ROCK_T2	4	4	0	0.23	0.2	-0.03	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 14:15	53501	EVIL_T2	2	2	0	1.1	0.85	-0.25	-0.87	-1.08	1	1	0	600	600	0
3/28/2024 14:16	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
3/28/2024 14:16	43202	MVIL_T2	55	64	9	0.28	0.54	0.26	-0.63	-0.68	0	0	0	0	0	0
3/28/2024 14:17	23404	HONE_T1	3	1	-2	0.47	1.2	0.73	0	0	0	0	0	0	0	0
3/28/2024 14:17	13302	ORVI_T2	1	3	2	0.1	0.1	0	1.4	1.45	0	0	0	0	0	0
3/28/2024 14:17	23403	HONE_T1	8	6	-2	0.13	0.12	-0.01	-0.72	-0.76	0	0	0	0	0	0
3/28/2024 14:17	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
3/28/2024 14:18	43202	MVIL_T2	55	64	9	0.28	0.54	0.26	0	0	0	0	0	0	0	0
3/28/2024 14:18	41901	REED_T1	9	9	0	0.33	0.39	0.06	0	0	0	0	0	0	0	0
3/28/2024 14:18	41902	REED_T1	0	0	0	0	0	0	1.09	1.11	0	0	0	0	0	0
3/28/2024 14:18	43201	MVIL_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
3/28/2024 14:19	42001	MNVL_T2	5	0	-5	0.22	0	-0.22	-0.06	-0.06	0	0	0	0	0	0
3/28/2024 14:19	42002	MNVL_T2	1	1	0	6.3	5.9	-0.4	0	0	0	0	0	0	0	0
3/28/2024 14:19	56501	ROCK_T2	4	4	0	0.15	0.28	0.13	-0.02	-0.02	0	0	0	0	0	0
3/28/2024 14:21	42701	AUGU_T1	0	1	1	0	1.1	1.1	0	0	2	2	0	1800	1800	0
3/28/2024 14:22	26001	WDAM_T1	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
3/28/2024 14:23	59101	WALK_T2	0	0	0	0	0	0	1.76	1.8	0	0	0	0	0	0
3/28/2024 14:24	56501	ROCK_T2	4	4	0	0.15	0.28	0.13	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 14:24	42701	AUGU_T1	0	1	1	0	1.1	1.1	0	0	2	2	0	1800	1800	0
3/28/2024 14:25	42701	AUGU_T1	0	1	1	0	1.1	1.1	0	0	2	2	0	1800	1800	0
3/28/2024 14:25	53903	HALI_T2	2	2	0	1.6	1.75	0.15	-0.18	-0.19	0	0	0	0	0	0
3/28/2024 14:25	59101	WALK_T2	0	0	0	0	0	0	1.76	1.8	0	0	0	0	0	0
3/28/2024 14:25	53901	HALI_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
3/28/2024 14:25	53902	HALI_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
3/28/2024 14:26	53903	HALI_T2	2	2	0	1.6	1.75	0.15	-0.18	-0.19	0	0	0	0	0	0
3/28/2024 14:26	53901	HALI_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
3/28/2024 14:26	53902	HALI_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
3/28/2024 14:30	66504	SMAN_T2	0	0	0	0	0	0	-1.14	-1.13	0	0	0	0	0	0
3/28/2024 14:30	66505	SMAN_T2	3	2	-1	0.57	0.85	0.28	0	0	0	0	0	0	0	0
3/28/2024 14:31	65001	NEFF_T2	4	7	3	0.1	0	-0.82	-0.8	1	1	0	0	1200	1200	0
3/28/2024 14:31	65003	NEFF_T2	4	4	0	0.15	0.18	0.03	0	0	0	0	0	0	0	0
3/28/2024 14:31	12701	MACU_T1	0	1	1	0	0	0	0.12	0.15	0	0	0	0	0	0
3/28/2024 14:32	42902	MIDD_T2	2	2	0	0.75	0.3	-0.45	-0.41	-0.38	0	0	0	0	0	0
3/28/2024 14:32	42903	MIDD_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
3/28/2024 14:32	43202	MVIL_T2	58	64	6	0.41	0.54	0.13	-0.68	-0.67	0	0	0	0	0	0
3/28/2024 14:32	13302	ORVI_T2	3	0	-3	0.1	0	-0.1	1.45	1.4	0	0	0	0	0	0
3/28/2024 14:34	42001	MNVL_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
3/28/2024 14:34	43202	MVIL_T2	58	64	6	0.41	0.54	0.13	0	0	0	0	0	0	0	0
3/28/2024 14:34	42002	MNVL_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
3/28/2024 14:34	41901	REED_T1	9	9	0	0.37	0.37	0	0	0	0	0	0	0	0	0
3/28/2024 14:34	41902	REED_T1	0	0	0	0	0	0	1.11	1.15	0	0	0	0	0	0
3/28/2024 14:34	56501	ROCK_T2	3	5	2	0.23	0.23	0	-0.02	-0.02	0	0	0	0	0	0
3/28/2024 14:34	43201	MVIL_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
3/28/2024 14:35	41902	REED_T1	0	0	0	0	0	0	1.11	1.15	0	0	0	0	0	0
3/28/2024 14:35	56501	ROCK_T2	3	5	2	0.23	0.23	0	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 14:35	41901	REED_T1	9	9	0	0.37	0.37	0	0	0	0	0	0	0	0	0
3/28/2024 14:35	42002	MNVL_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
3/28/2024 14:35	42001	MNVL_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
3/28/2024 14:37	42701	AUGU_T1	1	1	0	0.8	1.1	0.3	0	0	2	2	0	1800	1800	0
3/28/2024 14:37	26001	WDAM_T1	0	0	0	0	0	0	-0.8	-0.74	0	0	0	0	0	0
3/28/2024 14:38	44601	SALE_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
3/28/2024 14:38	58402	MORO_T1	0	0	0	0	0	0	-0.15	-0.18	2	2	0	1500	1500	0
3/28/2024 14:39	59101	WALK_T2	0	0	0	0	0	0	1.8	1.53	0	0	0	0	0	0
3/28/2024 14:40	56501	ROCK_T2	3	5	2	0.23	0.23	0	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 14:40	61102	BERK_T5	0	0	0	0	0	0	0.64	0.69	1	1	0	300	300	0
3/28/2024 14:40	59101	WALK_T2	0	0	0	0	0	0	1.8	1.53	0	0	0	0	0	0
3/28/2024 14:40	58402	MORO_T1	0	0	0	0	0	0	-0.15	-0.18	2	2	0	1500	1500	0
3/28/2024 14:41	46001	BERW_T1	0	0	0	0	0	0	0.95	0.96	0	0	0	0	0	0
3/28/2024 14:41	67605	WARW_T1	27	38	11	0.44	0.55	0.11	-1.15	-1.08	0	0	0	0	0	0
3/28/2024 14:41	61102	BERK_T5	0	0	0	0	0	0	0.64	0.69	1	1	0	300	300	0
3/28/2024 14:42	40902	JESH_T1	0	0	0	0	0	0	-0.78	-0.74	0	0	0	0	0	0
3/28/2024 14:42	40101	HUNT_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
3/28/2024 14:43	64204	KINZ_T1	1	27	26	1.3	0.34	-0.96	0	0	0	0	0	0	0	0
3/28/2024 14:43	64203	KINZ_T1	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
3/28/2024 14:43	40902	JESH_T1	0	0	0	0	0	0	-0.78	-0.74	0	0	0	0	0	0
3/28/2024 14:43	64202	KINZ_T1	1	15	14	0.1	0.43	0.33	0	0	0	0	0	0	0	0
3/28/2024 14:43	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 14:43	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 14:43	13901	SEID_T1	0	0	0	0	0	0	-0.89	-0.79	1	1	0	1200	1200	0
3/28/2024 14:43	64201	KINZ_T1	0	12	12	0	0.42	0.42	-0.12	0.11	3	2	-1	1500	1200	-300
3/28/2024 14:44	61102	BERK_T5	0	0	0	0	0	0	1.28	1.38	2	2	0	600	600	0
3/28/2024 14:44	52004	LING_T2	0	0	0	0	0	0	0.2	0.14	0	0	0	0	0	0
3/28/2024 14:44	52002	LING_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/28/2024 14:44	52006	LING_T2	2	3	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/28/2024 14:44	46004	BERW_T2	1	0	-1	0.5	0	-0.5	-0.76	-0.76	0	0	0	0	0	0
3/28/2024 14:44	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 14:45	40101	HUNT_T2	0	0	0	0	0	0	-0.89	-0.93	0	0	0	0	0	0
3/28/2024 14:45	62607	ENGL_T1	0	0	0	0	0	0	-1.09	-1.1	1	1	0	300	300	0
3/28/2024 14:45	66504	SMAN_T2	0	0	0	0	0	0	-1.13	-1.01	0	0	0	0	0	0
3/28/2024 14:45	62605	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 14:45	64801	MONE_T2	51	82	31	0.25	0.25	0	0	0	0	0	0	0	0	0
3/28/2024 14:45	64802	MONE_T2	190	64	-126	0.19	0.23	0.04	-0.01	0.05	0	0	0	0	0	0
3/28/2024 14:45	66505	SMAN_T2	2	3	1	0.5	0.63	0.13	0	0	0	0	0	0	0	0
3/28/2024 14:46	55002	NEWP_T1	6	7	1	0.9	0.8	-0.1	-0.26	-0.25	0	0	0	0	0	0
3/28/2024 14:46	60101	COCA_T1	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
3/28/2024 14:47	42902	MIDD_T2	1	2	1	0.5	0.3	-0.2	-0.38	-0.39	0	0	0	0	0	0
3/28/2024 14:47	42903	MIDD_T2	2	2	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
3/28/2024 14:47	55002	NEWP_T1	6	7	1	0.9	0.8	-0.1	-0.26	-0.25	0	0	0	0	0	0
3/28/2024 14:47	40902	JESH_T1	0	1	1	0	0.1	0.1	-0.78	-0.74	0	0	0	0	0	0
3/28/2024 14:48	43202	MVIL_T2	64	65	1	0.53	0.59	0.06	-0.67	-0.68	0	0	0	0	0	0
3/28/2024 14:48	65001	NEFF_T2	6	5	-1	0.1	0.1	0	-0.8	-0.72	1	1	0	1200	1200	0
3/28/2024 14:48	65003	NEFF_T2	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/28/2024 14:48	13302	ORVI_T2	0	0	0	0	0	0	1.4	1.42	0	0	0	0	0	0
3/28/2024 14:49	44601	SALE_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
3/28/2024 14:49	64801	MONE_T2	51	82	31	0.25	0.25	0	-0.31	-0.31	0	0	0	0	0	0
3/28/2024 14:49	64802	MONE_T2	190	64	-126	0.19	0.23	0.04	0	0	0	0	0	0	0	0
3/28/2024 14:50	42001	MNVL_T2	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
3/28/2024 14:50	41901	REED_T1	9	9	0	0.37	0.47	0.1	0	0	0	0	0	0	0	0
3/28/2024 14:50	42002	MNVL_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
3/28/2024 14:50	41902	REED_T1	0	0	0	0	0	0	1.15	1.17	0	0	0	0	0	0
3/28/2024 14:51	46302	ROHR_T1	4	4	0	2.05	2.23	0.18	0.16	0.15	0	0	0	0	0	0
3/28/2024 14:51	41901	REED_T1	9	9	0	0.37	0.47	0.1	0	0	0	0	0	0	0	0
3/28/2024 14:51	41902	REED_T1	0	0	0	0	0	0	1.15	1.17	0	0	0	0	0	0
3/28/2024 14:51	56501	ROCK_T2	4	5	1	0.23	0.15	-0.08	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 14:51	60101	COCA_T1	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
3/28/2024 14:51	46301	ROHR_T1	39	51	12	0.17	0.17	0	0	0	0	0	0	0	0	0
3/28/2024 14:52	45602	WOOL_T1	1	3	2	0.6	0.43	-0.17	0.38	0.42	0	0	0	0	0	0
3/28/2024 14:54	43202	MVIL_T2	64	65	1	0.53	0.59	0.06	0	0	0	0	0	0	0	0
3/28/2024 14:54	43201	MVIL_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
3/28/2024 14:55	43105	SMIL_T2	11	11	0	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
3/28/2024 14:55	45602	WOOL_T1	1	3	2	0.6	0.43	-0.17	0.42	0.34	0	0	0	0	0	0
3/28/2024 14:55	43103	SMIL_T2	22	19	-3	0.73	0.68	-0.05	0	0	0	0	0	0	0	0
3/28/2024 14:55	43102	SMIL_T2	7	9	2	0.86	0.71	-0.15	0	0	0	0	0	0	0	0
3/28/2024 14:55	43108	SMIL_T2	0	1	1	0	0.1	0.1	-1.08	-1.07	1	1	0	1200	1200	0
3/28/2024 14:55	60803	BUCK_T1	0	0	0	0	0	0	-0.54	-0.52	1	1	0	600	600	0
3/28/2024 14:56	56501	ROCK_T2	4	5	1	0.23	0.15	-0.08	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 14:57	45602	WOOL_T1	1	3	2	0.6	0.43	-0.17	0.42	0.34	0	0	0	0	0	0
3/28/2024 14:58	40902	JESH_T1	0	1	1	0	0.1	0.1	-0.74	-0.74	0	0	0	0	0	0
3/28/2024 14:59	64201	KINZ_T1	7	12	5	0.46	0.42	-0.04	0	0	0	0	0	0	0	0
3/28/2024 14:59	64202	KINZ_T1	10	15	5	0.34	0.43	0.09	0	0	0	0	0	0	0	0
3/28/2024 14:59	64203	KINZ_T1	0	5	5	0	0.16	0.16	0.16	0.71	1	0	-1	600	0	-600
3/28/2024 14:59	64204	KINZ_T1	19	27	8	0.27	0.33	0.06	0	0	0	0	0	0	0	0
3/28/2024 15:00	64201	KINZ_T1	12	6	-6	0.42	0.28	-0.14	0	0	0	0	0	0	0	0
3/28/2024 15:00	64203	KINZ_T1	5	0	-5	0.16	0	-0.16	0.32	1.43	2	0	-2	1200	0	-1200
3/28/2024 15:00	64202	KINZ_T1	15	3	-12	0.43	0.1	-0.33	0.67	0.56	0	0	0	0	0	0
3/28/2024 15:00	64204	KINZ_T1	27	3	-24	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
3/28/2024 15:01	56603	HAMP_T1	0	0	0	0	0	0	-1.28	-1.17	0	0	0	0	0	0
3/28/2024 15:03	66302	MCGO_T2	378	459	81	0.45	0.85	0.4	-2.27	-2.52	2	2	0	1200	1200	0
3/28/2024 15:03	66303	MCGO_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/28/2024 15:03	40902	JESH_T1	0	7	7	0	0.34	0.34	-0.74	-0.74	0	0	0	0	0	0
3/28/2024 15:03	40901	JESH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/28/2024 15:03	40903	JESH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/28/2024 15:06	56501	ROCK_T2	4	5	1	0.15	0.18	0.03	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 15:08	45602	WOOL_T1	1	7	6	0.5	0.54	0.04	0.34	0.36	0	0	0	0	0	0
3/28/2024 15:10	46001	BERW_T1	0	0	0	0	0	0	0.89	0.88	0	0	0	0	0	0
3/28/2024 15:11	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 15:11	57401	SPAN_T1	2	2	0	0.75	0.45	-0.3	0	0	0	0	0	0	0	0
3/28/2024 15:11	46001	BERW_T1	0	0	0	0	0	0	0.89	0.88	0	0	0	0	0	0
3/28/2024 15:11	57403	SPAN_T1	3	10	7	0.1	0.14	0.04	-0.01	0.02	0	0	0	0	0	0
3/28/2024 15:12	56501	ROCK_T2	4	5	1	0.15	0.18	0.03	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 15:12	42701	AUGU_T1	1	0	-1	1	0	-1	0	0	2	2	0	1800	1800	0
3/28/2024 15:12	46001	BERW_T1	0	0	0	0	0	0	0.89	0.88	0	0	0	0	0	0
3/28/2024 15:13	45602	WOOL_T1	1	7	6	0.5	0.54	0.04	0.34	0.36	0	0	0	0	0	0
3/28/2024 15:14	40902	JESH_T1	0	7	7	0	0.34	0.34	-0.74	-0.75	0	0	0	0	0	0
3/28/2024 15:14	40901	JESH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/28/2024 15:14	40903	JESH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/28/2024 15:17	46001	BERW_T1	0	1	1	0	0.1	0.1	0.89	0.88	0	0	0	0	0	0
3/28/2024 15:18	65701	RVIL_T1	0	0	0	0	0	0	-1.96	-0.91	0	0	0	0	0	0
3/28/2024 15:20	65701	RVIL_T1	0	0	0	0	0	0	-3.91	-1.83	0	0	0	0	0	0
3/28/2024 15:21	65701	RVIL_T1	0	0	0	0	0	0	-3.91	-1.83	0	0	0	0	0	0
3/28/2024 15:21	43802	SWIL_T1	0	0	0	0	0	0	-0.3	-0.31	1	1	0	600	600	0
3/28/2024 15:21	43801	SWIL_T1	2	2	0	2.7	3.25	0.55	0	0	0	0	0	0	0	0
3/28/2024 15:22	43104	SMIL_T2	0	0	0	0	0	0	-0.81	-0.84	1	1	0	300	300	0
3/28/2024 15:22	46301	ROHR_T1	46	75	29	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/28/2024 15:22	43105	SMIL_T2	5	14	9	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
3/28/2024 15:22	46302	ROHR_T1	2	2	0	3.35	3.35	0	0.17	0.17	0	0	0	0	0	0
3/28/2024 15:22	43103	SMIL_T2	18	21	3	0.61	0.81	0.2	0	0	0	0	0	0	0	0
3/28/2024 15:22	43102	SMIL_T2	8	7	-1	0.75	0.86	0.11	0	0	0	0	0	0	0	0
3/28/2024 15:22	56501	ROCK_T2	2	9	7	0.2	0.26	0.06	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 15:22	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 15:22	43108	SMIL_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/28/2024 15:23	14402	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/28/2024 15:23	14404	SSLA_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
3/28/2024 15:23	14403	SSLA_T1	0	0	0	0	0	0	0.74	0.7	0	0	0	0	0	0
3/28/2024 15:23	67901	WNHO_T2	6	21	15	0.2	0.18	-0.02	-0.37	-0.08	1	1	0	900	900	0
3/28/2024 15:25	43802	SWIL_T1	0	0	0	0	0	0	-0.31	-0.34	1	1	0	600	600	0
3/28/2024 15:25	43801	SWIL_T1	2	2	0	2.7	3.25	0.55	0	0	0	0	0	0	0	0
3/28/2024 15:27	40903	JESH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/28/2024 15:27	40901	JESH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/28/2024 15:27	56501	ROCK_T2	2	9	7	0.2	0.26	0.06	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 15:27	40902	JESH_T1	1	11	10	0.1	0.25	0.15	-0.75	-0.79	0	0	0	0	0	0
3/28/2024 15:34	41901	REED_T1	9	9	0	0.46	0.57	0.11	0	0	0	0	0	0	0	0
3/28/2024 15:34	41902	REED_T1	0	0	0	0	0	0	1.11	1.07	0	0	0	0	0	0
3/28/2024 15:37	41901	REED_T1	9	9	0	0.46	0.57	0.11	0	0	0	0	0	0	0	0
3/28/2024 15:37	17002	RIRO_T2	0	1	1	0	0.1	0.1	0.45	0.44	0	0	0	0	0	0
3/28/2024 15:37	41902	REED_T1	0	0	0	0	0	0	1.11	1.07	0	0	0	0	0	0
3/28/2024 15:38	56501	ROCK_T2	5	9	4	0.18	0.24	0.06	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 15:39	67605	WARW_T1	33	30	-3	0.68	0.49	-0.19	0	0	0	0	0	0	0	0
3/28/2024 15:39	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 15:40	67605	WARW_T1	33	30	-3	0.68	0.49	-0.19	0	0	0	0	0	0	0	0
3/28/2024 15:40	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 15:41	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 15:41	10805	OHHI_T2	1	1	0	7.5	7.6	0.1	-1.82	-1.97	0	0	0	0	0	0
3/28/2024 15:42	46004	BERW_T2	0	0	0	0	0	0	-0.81	-0.78	0	0	0	0	0	0
3/28/2024 15:43	56501	ROCK_T2	5	9	4	0.18	0.24	0.06	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 15:43	40901	JESH_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/28/2024 15:43	40903	JESH_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/28/2024 15:43	40902	JESH_T1	7	11	4	0.34	0.15	-0.19	-0.79	-0.79	0	0	0	0	0	0
3/28/2024 15:43	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 15:49	40901	JESH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/28/2024 15:49	40903	JESH_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/28/2024 15:49	40902	JESH_T1	8	11	3	0.14	0.15	0.01	-0.79	-0.79	0	0	0	0	0	0
3/28/2024 15:50	59402	RFLD_T2	0	0	0	0	0	0	-0.69	-0.78	1	1	0	450	450	0
3/28/2024 15:53	42701	AUGU_T1	0	1	1	0	0.8	0.8	0	0	2	2	0	1800	1800	0
3/28/2024 15:53	40603	PIGR_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
3/28/2024 15:54	56501	ROCK_T2	9	7	-2	0.24	0.19	-0.05	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 15:55	42701	AUGU_T1	0	1	1	0	0.8	0.8	0	0	2	2	0	1800	1800	0
3/28/2024 15:59	56501	ROCK_T2	9	7	-2	0.24	0.19	-0.05	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 15:59	40902	JESH_T1	8	11	3	0.14	0.15	0.01	-0.79	-0.77	0	0	0	0	0	0
3/28/2024 15:59	40901	JESH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/28/2024 15:59	40903	JESH_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/28/2024 16:03	42201	SHEN_T2	0	0	0	0	0	0	-0.03	-0.02	1	1	0	600	600	0
3/28/2024 16:04	40903	JESH_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/28/2024 16:04	40902	JESH_T1	7	9	2	0.14	0.16	0.02	-0.79	-0.77	0	0	0	0	0	0
3/28/2024 16:04	56501	ROCK_T2	7	5	-2	0.19	0.25	0.06	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 16:04	40901	JESH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/28/2024 16:05	42201	SHEN_T2	0	0	0	0	0	0	-0.03	-0.02	1	1	0	600	600	0
3/28/2024 16:05	42802	SELI_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
3/28/2024 16:07	42802	SELI_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
3/28/2024 16:08	42802	SELI_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
3/28/2024 16:08	20403	ASHF_T2	0	0	0	0	0	0	0.02	0.08	0	0	0	0	0	0
3/28/2024 16:09	56501	ROCK_T2	7	5	-2	0.19	0.25	0.06	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 16:12	20403	ASHF_T2	0	0	0	0	0	0	0.02	0.08	0	0	0	0	0	0
3/28/2024 16:15	40901	JESH_T1	1	3	2	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
3/28/2024 16:15	40903	JESH_T1	2	4	2	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
3/28/2024 16:15	40902	JESH_T1	8	20	12	0.16	0.17	0.01	-0.77	-0.8	0	0	0	0	0	0
3/28/2024 16:19	41902	REED_T1	0	3	3	0	0	0	1.05	1.11	0	0	0	0	0	0
3/28/2024 16:19	41901	REED_T1	9	0	-9	0.39	0	-0.39	0	0	0	0	0	0	0	0
3/28/2024 16:20	56501	ROCK_T2	1	10	9	0.1	0.23	0.13	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 16:20	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/28/2024 16:21	59402	RFLD_T2	0	1	1	0	0.2	0.2	-0.78	-0.81	1	1	0	450	450	0
3/28/2024 16:21	40901	JESH_T1	1	3	2	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
3/28/2024 16:21	40902	JESH_T1	8	20	12	0.16	0.17	0.01	-0.77	-0.8	0	0	0	0	0	0
3/28/2024 16:21	40903	JESH_T1	2	4	2	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
3/28/2024 16:21	41901	REED_T1	9	0	-9	0.39	0	-0.39	0	0	0	0	0	0	0	0
3/28/2024 16:21	41902	REED_T1	0	3	3	0	0	0	1.05	1.11	0	0	0	0	0	0
3/28/2024 16:25	56501	ROCK_T2	1	10	9	0.1	0.23	0.13	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 16:25	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/28/2024 16:33	42201	SHEN_T2	0	0	0	0	0	0	-0.03	0	1	1	0	600	600	0
3/28/2024 16:34	59402	RFLD_T2	1	1	0	0.2	0.1	-0.1	-0.81	-0.81	1	1	0	450	450	0
3/28/2024 16:36	56501	ROCK_T2	5	10	5	0.24	0.22	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 16:36	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/28/2024 16:37	59402	RFLD_T2	1	1	0	0.2	0.1	-0.1	-2.43	-2.44	3	3	0	1350	1350	0
3/28/2024 16:41	56501	ROCK_T2	5	10	5	0.24	0.22	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 16:41	42002	MNVL_T2	1	1	0	5.6	4.7	-0.9	0	0	0	0	0	0	0	0
3/28/2024 16:41	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/28/2024 16:41	42001	MNVL_T2	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
3/28/2024 17:32	59301	MCAL_T1	77	39	-38	0.49	0.22	-0.27	-1.28	-1.28	0	0	0	0	0	0
3/28/2024 17:32	59302	MCAL_T1	2	1	-1	0.8	1.3	0.5	0	0	0	0	0	0	0	0
3/28/2024 20:11	56802	BENV_T2	1	1	0	0.2	0.4	0.2	-1.48	-1.41	0	0	0	0	0	0
3/28/2024 20:12	12701	MACU_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
3/28/2024 20:12	53501	EVIL_T2	1	2	1	0.3	0.4	0.1	-0.77	-0.69	0	0	0	0	0	0
3/28/2024 20:13	46003	BERW_T2	1	12	11	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/28/2024 20:13	46004	BERW_T2	1	11	10	0.1	0.15	0.05	-0.82	-0.82	0	0	0	0	0	0
3/28/2024 20:13	56802	BENV_T2	1	1	0	0.2	0.4	0.2	-0.74	-0.71	0	0	0	0	0	0
3/28/2024 20:13	46002	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/28/2024 20:15	56802	BENV_T2	1	1	0	0.4	0.2	-0.2	-0.74	-0.71	0	0	0	0	0	0
3/28/2024 20:15	46203	DANV_T2	279	238	-41	0.61	0.58	-0.03	-1.08	-1.06	0	0	0	0	0	0
3/28/2024 20:17	56802	BENV_T2	1	1	0	0.4	0.2	-0.2	-0.74	-0.71	0	0	0	0	0	0
3/28/2024 20:35	64902	MILL_T2	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
3/28/2024 20:37	46003	BERW_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
3/28/2024 20:37	46004	BERW_T2	2	2	0	0.15	0.1	-0.05	-0.82	-0.81	0	0	0	0	0	0
3/28/2024 20:37	46002	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/28/2024 20:45	56802	BENV_T2	1	12	11	0.2	0.19	-0.01	-0.75	-0.75	0	0	0	0	0	0
3/28/2024 20:48	56802	BENV_T2	1	12	11	0.2	0.19	-0.01	-0.75	-0.75	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/28/2024 20:58	53601	DALM_T2	1	1	0	0.5	0.5	0	-0.14	0	0	0	0	0	0	0
3/28/2024 21:00	62604	ENGL_T1	0	0	0	0	0	0	-0.5	-0.55	1	1	0	600	600	0
3/28/2024 21:00	62606	ENGL_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/28/2024 21:01	40602	PIGR_T1	0	0	0	0	0	0	-0.65	-0.69	1	1	0	600	600	0
3/28/2024 21:01	62606	ENGL_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/28/2024 21:01	62604	ENGL_T1	0	0	0	0	0	0	-0.5	-0.55	1	1	0	600	600	0
3/28/2024 21:01	55105	WERT_T1	0	0	0	0	0	0	-0.61	-0.65	0	0	0	0	0	0
3/28/2024 21:01	40601	PIGR_T1	2	37	35	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/28/2024 21:09	49803	UNIV_T1	0	0	0	0	0	0	-1.12	-1.11	0	0	0	0	0	0
3/28/2024 21:14	25402	LAHA_T2	0	0	0	0	0	0	-0.8	-0.78	0	0	0	0	0	0
3/28/2024 21:15	59402	RFLD_T2	0	0	0	0	0	0	-0.87	-0.86	1	1	0	450	450	0
3/28/2024 21:22	67204	TEHI_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
3/28/2024 21:25	17002	RIRO_T2	27	41	14	0.14	0.16	0.02	0.37	0.36	0	0	0	0	0	0
3/28/2024 21:26	67204	TEHI_T2	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
3/28/2024 21:27	10805	CHHI_T2	1	1	0	7.2	7.4	0.2	-1.08	-1.04	0	0	0	0	0	0
3/28/2024 21:29	52401	GRPA_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/28/2024 21:29	52404	GRPA_T2	1	1	0	1	1.1	0.1	-0.13	-0.16	0	0	0	0	0	0
3/28/2024 21:29	52403	GRPA_T2	7	9	2	0.21	0.26	0.05	0	0	0	0	0	0	0	0
3/28/2024 21:29	52402	GRPA_T2	5	7	2	1.36	1.43	0.07	0	0	0	0	0	0	0	0
3/28/2024 21:30	52401	GRPA_T2	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
3/28/2024 21:30	52402	GRPA_T2	6	6	0	1.35	1.4	0.05	0	0	0	0	0	0	0	0
3/28/2024 21:30	52404	GRPA_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/28/2024 21:30	52403	GRPA_T2	0	10	10	0	0.43	0.43	-0.04	-0.03	0	0	0	0	0	0
3/28/2024 21:30	10805	CHHI_T2	1	1	0	7.4	7.4	0	-1.08	-1.04	0	0	0	0	0	0
3/28/2024 21:31	14404	SSLA_T1	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
3/28/2024 21:31	14402	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/28/2024 21:31	14403	SSLA_T1	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
3/28/2024 21:32	64204	KINZ_T1	1	5	4	1.2	0.42	-0.78	0	0	0	0	0	0	0	0
3/28/2024 21:32	23403	HONE_T1	0	0	0	0	0	0	-0.79	-0.73	0	0	0	0	0	0
3/28/2024 21:32	14801	TREI_T2	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
3/28/2024 21:32	13302	ORVI_T2	0	0	0	0	0	0	1.43	1.29	0	0	0	0	0	0
3/28/2024 21:32	62607	ENGL_T1	0	0	0	0	0	0	-1.14	-1.14	1	1	0	300	300	0
3/28/2024 21:32	64201	KINZ_T1	2	5	3	0.35	0.36	0.01	0.4	0.37	1	1	0	300	300	0
3/28/2024 21:32	23404	HONE_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/28/2024 21:32	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/28/2024 21:32	15001	BLMO_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
3/28/2024 21:32	64202	KINZ_T1	1	8	7	0.1	0.21	0.11	0	0	0	0	0	0	0	0
3/28/2024 21:32	20403	ASHF_T2	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
3/28/2024 21:32	62606	ENGL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/28/2024 21:33	64203	KINZ_T1	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
3/28/2024 21:33	64201	KINZ_T1	2	5	3	0.35	0.36	0.01	0	0	0	0	0	0	0	0
3/28/2024 21:33	64204	KINZ_T1	1	5	4	1.2	0.42	-0.78	0	0	0	0	0	0	0	0
3/28/2024 21:33	64202	KINZ_T1	1	8	7	0.1	0.21	0.11	0.45	0.43	0	0	0	0	0	0
3/28/2024 21:33	10805	CHHI_T2	1	1	0	7.4	7.4	0	-1.08	-1.04	0	0	0	0	0	0
3/28/2024 21:33	16402	MOPO_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
3/28/2024 21:34	61103	BERK_T5	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
3/28/2024 21:34	60803	BUCK_T1	0	0	0	0	0	0	-0.54	-0.53	1	1	0	600	600	0
3/28/2024 21:34	27502	WEIS_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
3/28/2024 21:34	65901	SAKR_T2	1	1	0	9.6	9.8	0.2	-1.42	-1.32	1	1	0	900	900	0
3/28/2024 21:34	65701	RVIL_T1	0	0	0	0	0	0	-1	-1.02	0	0	0	0	0	0
3/28/2024 21:34	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/28/2024 21:34	20403	ASHF_T2	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
3/28/2024 21:35	42201	SHEN_T2	0	0	0	0	0	0	-0.03	-0.03	1	1	0	600	600	0
3/28/2024 21:35	10801	CHHI_T1	0	0	0	0	0	0	-0.98	-0.95	1	1	0	900	900	0
3/28/2024 21:35	66504	SMAN_T2	0	0	0	0	0	0	-1.27	-1.05	0	0	0	0	0	0
3/28/2024 21:35	15001	BLMO_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
3/28/2024 21:36	53902	HALI_T2	1	1	0	6.2	6.4	0.2	0	0	0	0	0	0	0	0
3/28/2024 21:36	53901	HALI_T2	2	3	1	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
3/28/2024 21:36	60101	COCA_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
3/28/2024 21:36	12701	MACU_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
3/28/2024 21:36	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.19	0	0	0	0	0	0
3/28/2024 21:36	41802	GOCI_T2	12	17	5	0.23	0.24	0.01	0	0	0	0	0	0	0	0
3/28/2024 21:36	53903	HALI_T2	2	13	11	1.9	0.4	-1.5	-0.19	-0.16	0	0	0	0	0	0
3/28/2024 21:36	41801	GOCI_T2	5	7	2	0.12	0.13	0.01	0	0	0	0	0	0	0	0
3/28/2024 21:36	67605	WARW_T1	11	16	5	0.23	0.34	0.11	-0.92	-0.95	0	0	0	0	0	0
3/28/2024 21:36	65701	RVIL_T1	0	0	0	0	0	0	-1	-1.02	0	0	0	0	0	0
3/28/2024 21:36	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
3/28/2024 21:37	65001	NEFF_T2	218	238	20	0.22	0.35	0.13	-1.09	-1.14	1	1	0	1200	1200	0
3/28/2024 21:37	42701	AUGU_T1	1	1	0	0.4	0.7	0.3	0	0	2	2	0	1800	1800	0
3/28/2024 21:37	57401	SPAN_T1	2	2	0	0.25	0.55	0.3	-0.87	-0.81	1	1	0	600	600	0
3/28/2024 21:37	56501	ROCK_T2	5	24	19	0.2	0.19	-0.01	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 21:37	57403	SPAN_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 21:37	67605	WARW_T1	11	16	5	0.23	0.34	0.11	0	0	0	0	0	0	0	0
3/28/2024 21:37	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
3/28/2024 21:38	65701	RVIL_T1	0	0	0	0	0	0	-2.03	-2.01	0	0	0	0	0	0
3/28/2024 21:38	40602	PIGR_T1	0	0	0	0	0	0	-1.42	-1.5	2	2	0	1200	1200	0
3/28/2024 21:38	42201	SHEN_T2	0	0	0	0	0	0	-0.03	-0.02	1	1	0	600	600	0
3/28/2024 21:38	57401	SPAN_T1	2	2	0	0.25	0.55	0.3	-0.81	-0.88	1	1	0	600	600	0
3/28/2024 21:38	64802	MONE_T2	25	12	-13	0.12	0.13	0.01	0	0	0	0	0	0	0	0
3/28/2024 21:38	64801	MONE_T2	7	17	10	0.23	0.29	0.06	-0.34	-0.36	0	0	0	0	0	0
3/28/2024 21:38	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 21:38	40601	PIGR_T1	37	33	-4	0.13	0.14	0.01	0	0	0	0	0	0	0	0
3/28/2024 21:38	44601	SALE_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
3/28/2024 21:38	40101	HUNT_T2	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
3/28/2024 21:38	67502	WEWI_T2	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
3/28/2024 21:38	57403	SPAN_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 21:39	54501	ENOL_T2	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/28/2024 21:39	40601	PIGR_T1	37	33	-4	0.13	0.14	0.01	0	0	0	0	0	0	0	0
3/28/2024 21:39	54505	ENOL_T2	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
3/28/2024 21:39	43201	MVIL_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
3/28/2024 21:39	26002	WDAM_T1	3	1	-2	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
3/28/2024 21:39	59101	WALK_T2	0	0	0	0	0	0	0.46	0.56	1	1	0	600	600	0
3/28/2024 21:39	46004	BERW_T2	0	0	0	0	0	0	-0.89	-0.86	0	0	0	0	0	0
3/28/2024 21:39	43102	SMIL_T2	6	7	1	0.75	0.73	-0.02	0	0	0	0	0	0	0	0
3/28/2024 21:39	65701	RVIL_T1	0	0	0	0	0	0	-1.02	-1.01	0	0	0	0	0	0
3/28/2024 21:39	46001	BERW_T1	0	0	0	0	0	0	1.17	1.04	0	0	0	0	0	0
3/28/2024 21:39	54503	ENOL_T2	0	0	0	0	0	0	-1.28	-1.31	1	1	0	600	600	0
3/28/2024 21:39	43103	SMIL_T2	20	21	1	0.42	0.85	0.43	0	0	0	0	0	0	0	0
3/28/2024 21:39	56802	BENV_T2	18	46	28	0.12	0.13	0.01	-0.74	-0.75	0	0	0	0	0	0
3/28/2024 21:39	54206	PENN_T2	81	214	133	0.3	0.23	-0.07	-0.08	-0.1	0	0	0	0	0	0
3/28/2024 21:39	54204	PENN_T2	3	3	0	0.57	0.67	0.1	0	0	0	0	0	0	0	0
3/28/2024 21:39	42001	MNVL_T2	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
3/28/2024 21:39	26001	WDAM_T1	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
3/28/2024 21:39	54502	ENOL_T2	1	12	11	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
3/28/2024 21:39	42701	AUGU_T1	1	1	0	0.4	0.7	0.3	0	0	2	2	0	1800	1800	0
3/28/2024 21:39	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 21:39	43105	SMIL_T2	20	23	3	0.34	0.37	0.03	0	0	0	0	0	0	0	0
3/28/2024 21:39	52004	LING_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
3/28/2024 21:39	40101	HUNT_T2	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
3/28/2024 21:39	52006	LING_T2	2	3	1	0.8	0.83	0.03	0	0	0	0	0	0	0	0
3/28/2024 21:39	43202	MVIL_T2	35	67	32	0.2	0.54	0.34	0	0	0	0	0	0	0	0
3/28/2024 21:39	54202	PENN_T2	148	326	178	0.19	0.22	0.03	0	0	0	0	0	0	0	0
3/28/2024 21:39	52002	LING_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/28/2024 21:39	40603	PIGR_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
3/28/2024 21:39	42201	SHEN_T2	0	0	0	0	0	0	-0.03	-0.02	1	1	0	600	600	0
3/28/2024 21:39	64702	LITI_T2	0	0	0	0	0	0	-0.6	-0.72	0	0	0	0	0	0
3/28/2024 21:39	42002	MNVL_T2	1	1	0	4.4	4.4	0	0	0	0	0	0	0	0	0
3/28/2024 21:39	43108	SMIL_T2	3	3	0	0.47	0.6	0.13	-1.16	-0.84	1	1	0	1200	1200	0
3/28/2024 21:40	43801	SWIL_T1	10	11	1	0.74	0.8	0.06	0	0	0	0	0	0	0	0
3/28/2024 21:40	43802	SWIL_T1	0	0	0	0	0	0	-0.33	-0.31	1	1	0	600	600	0
3/28/2024 21:40	42002	MNVL_T2	1	1	0	4.4	4.4	0	0	0	0	0	0	0	0	0
3/28/2024 21:40	67402	WAKE_T2	0	0	0	0	0	0	0.19	0.15	0	0	0	0	0	0
3/28/2024 21:40	64801	MONE_T2	7	17	10	0.23	0.29	0.06	0	0	0	0	0	0	0	0
3/28/2024 21:40	54502	ENOL_T2	1	12	11	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
3/28/2024 21:40	56603	HAMP_T1	0	0	0	0	0	0	-1.24	-1.23	0	0	0	0	0	0
3/28/2024 21:40	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 21:40	40101	HUNT_T2	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
3/28/2024 21:40	54505	ENOL_T2	1	1	0	1.3	1.4	0.1	-1.33	-1.32	1	1	0	600	600	0
3/28/2024 21:40	57403	SPAN_T1	0	2	2	0	0	0	0.03	0.03	0	0	0	0	0	0
3/28/2024 21:40	46301	ROHR_T1	103	178	75	0.23	0.29	0.06	0	0	0	0	0	0	0	0
3/28/2024 21:40	57401	SPAN_T1	2	2	0	0.25	0.55	0.3	-0.81	-0.88	1	1	0	600	600	0
3/28/2024 21:40	43202	MVIL_T2	35	67	32	0.2	0.54	0.34	-0.69	-0.7	0	0	0	0	0	0
3/28/2024 21:40	46302	ROHR_T1	4	13	9	1.95	0.86	-1.09	0.19	0.18	0	0	0	0	0	0
3/28/2024 21:40	59101	WALK_T2	0	0	0	0	0	0	0.46	0.56	1	1	0	600	600	0
3/28/2024 21:40	54501	ENOL_T2	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/28/2024 21:40	42701	AUGU_T1	1	1	0	0.4	0.7	0.3	0	0	2	2	0	1800	1800	0
3/28/2024 21:40	42001	MNVL_T2	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
3/28/2024 21:40	66703	STRA_T1	1	7	6	0.3	0.3	0	-0.38	-0.39	0	0	0	0	0	0
3/28/2024 21:40	64802	MONE_T2	25	12	-13	0.12	0.13	0.01	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 21:40	55002	NEWP_T1	6	5	-1	1	1.42	0.42	-0.28	-0.27	0	0	0	0	0	0
3/28/2024 21:41	40902	JESH_T1	46	146	100	0.17	0.16	-0.01	-0.83	-0.84	0	0	0	0	0	0
3/28/2024 21:41	45402	WBLO_T2	32	47	15	0.22	0.29	0.07	-0.82	-0.82	0	0	0	0	0	0
3/28/2024 21:41	55002	NEWP_T1	6	5	-1	1	1.42	0.42	-0.28	-0.27	0	0	0	0	0	0
3/28/2024 21:41	57401	SPAN_T1	2	2	0	0.25	0.55	0.3	-0.81	-0.88	1	1	0	600	600	0
3/28/2024 21:41	54505	ENOL_T2	1	1	0	1.3	1.4	0.1	-1.33	-1.32	1	1	0	600	600	0
3/28/2024 21:41	57403	SPAN_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 21:41	53901	HALI_T2	2	3	1	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
3/28/2024 21:41	46004	BERW_T2	0	0	0	0	0	0	-0.89	-0.86	0	0	0	0	0	0
3/28/2024 21:41	52501	PROG_T1	0	0	0	0	0	0	0.33	0.33	1	1	0	300	300	0
3/28/2024 21:41	54205	PENN_T1	0	12	12	0	0.1	0.1	0	0	0	0	0	0	0	0
3/28/2024 21:41	54203	PENN_T1	18	20	2	1.44	1.4	-0.04	0	0	0	0	0	0	0	0
3/28/2024 21:41	41902	REED_T1	0	0	0	0	0	0	1.02	1.01	0	0	0	0	0	0
3/28/2024 21:41	60101	COCA_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
3/28/2024 21:41	67901	WNHO_T2	218	220	2	0.6	0.57	-0.03	-0.58	-0.65	0	0	0	0	0	0
3/28/2024 21:41	59402	RFLD_T2	0	0	0	0	0	0	-0.9	-0.87	1	1	0	450	450	0
3/28/2024 21:41	40901	JESH_T1	77	121	44	0.23	0.27	0.04	0	0	0	0	0	0	0	0
3/28/2024 21:41	42701	AUGU_T1	1	1	0	0.4	0.7	0.3	0	0	2	2	0	1800	1800	0
3/28/2024 21:41	56501	ROCK_T2	5	24	19	0.2	0.19	-0.01	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 21:41	53902	HALI_T2	1	1	0	6.2	6.4	0.2	0	0	0	0	0	0	0	0
3/28/2024 21:41	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/28/2024 21:41	54503	ENOL_T2	0	0	0	0	0	0	-1.28	-1.31	1	1	0	600	600	0
3/28/2024 21:41	52402	GRPA_T2	6	6	0	1.35	1.4	0.05	0	0	0	0	0	0	0	0
3/28/2024 21:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/28/2024 21:41	58001	WCAR_T1	4	4	0	0.83	1.13	0.3	0	0	0	0	0	0	0	0
3/28/2024 21:41	52401	GRPA_T2	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
3/28/2024 21:41	40903	JESH_T1	69	141	72	0.13	0.19	0.06	0	0	0	0	0	0	0	0
3/28/2024 21:41	54502	ENOL_T2	1	12	11	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
3/28/2024 21:41	52403	GRPA_T2	0	10	10	0	0.43	0.43	0	0	0	0	0	0	0	0
3/28/2024 21:41	54201	PENN_T1	12	29	17	1.07	0.55	-0.52	0.08	0.06	0	0	0	0	0	0
3/28/2024 21:41	53501	EVIL_T2	0	0	0	0	0	0	-0.77	-0.8	0	0	0	0	0	0
3/28/2024 21:41	41901	REED_T1	5	4	-1	0.18	0.18	0	0	0	0	0	0	0	0	0
3/28/2024 21:41	56802	BENV_T2	18	46	28	0.12	0.13	0.01	-1.48	-1.5	0	0	0	0	0	0
3/28/2024 21:41	52404	GRPA_T2	1	1	0	0.9	1.1	0.2	-0.16	-0.12	0	0	0	0	0	0
3/28/2024 21:41	54501	ENOL_T2	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/28/2024 21:41	53903	HALI_T2	2	13	11	1.9	0.4	-1.5	-0.16	-0.2	0	0	0	0	0	0
3/28/2024 21:41	58003	WCAR_T1	1	1	0	1.6	1.6	0	-0.05	-0.08	1	1	0	600	600	0
3/28/2024 21:42	47001	HUGH_T2	1	3	2	0.2	0.37	0.17	-0.84	-0.9	0	0	0	0	0	0
3/28/2024 21:42	56803	BENV_T1	0	5	5	0	0.38	0.38	0	0	0	0	0	0	0	0
3/28/2024 21:42	57403	SPAN_T1	0	2	2	0	0	0	0.03	0.03	0	0	0	0	0	0
3/28/2024 21:42	66302	MCGO_T2	0	0	0	0	0	0	-1.8	-1.8	0	0	0	0	0	0
3/28/2024 21:42	66303	MCGO_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
3/28/2024 21:42	57304	MOAL_T2	1	3	2	0.1	0.23	0.13	-0.48	-0.45	0	0	0	0	0	0
3/28/2024 21:42	46801	HEPB_T2	2	2	0	0.35	0.7	0.35	0.54	0.53	0	0	0	0	0	0
3/28/2024 21:42	42901	MIDD_T2	138	115	-23	0.27	0.19	-0.08	0	0	0	0	0	0	0	0
3/28/2024 21:42	57303	MOAL_T2	1	1	0	7.1	6.8	-0.3	0	0	0	0	0	0	0	0
3/28/2024 21:42	42902	MIDD_T2	69	44	-25	0.27	0.22	-0.05	-0.66	-0.66	0	0	0	0	0	0
3/28/2024 21:42	55002	NEWP_T1	6	5	-1	1	1.42	0.42	-0.28	-0.27	0	0	0	0	0	0
3/28/2024 21:42	57401	SPAN_T1	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
3/28/2024 21:42	56801	BENV_T1	22	20	-2	0.3	0.56	0.26	-0.8	-0.81	1	1	0	600	600	0
3/28/2024 21:42	42903	MIDD_T2	4	2	-2	1.18	2	0.82	0	0	0	0	0	0	0	0
3/28/2024 21:43	52402	GRPA_T2	6	6	0	1.35	1.4	0.05	0	0	0	0	0	0	0	0
3/28/2024 21:43	58402	MORO_T1	0	0	0	0	0	0	-0.44	-0.43	2	2	0	1500	1500	0
3/28/2024 21:43	54204	PENN_T2	3	3	0	0.57	0.67	0.1	0	0	0	0	0	0	0	0
3/28/2024 21:43	59402	RFLD_T2	0	0	0	0	0	0	-0.9	-0.87	1	1	0	450	450	0
3/28/2024 21:43	52403	GRPA_T2	0	10	10	0	0.43	0.43	0	0	0	0	0	0	0	0
3/28/2024 21:43	54202	PENN_T2	148	326	178	0.19	0.22	0.03	0	0	0	0	0	0	0	0
3/28/2024 21:43	54206	PENN_T2	81	214	133	0.3	0.23	-0.07	-0.08	-0.1	0	0	0	0	0	0
3/28/2024 21:43	46001	BERW_T1	0	0	0	0	0	0	0.58	0.52	0	0	0	0	0	0
3/28/2024 21:43	52404	GRPA_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/28/2024 21:43	53501	EVIL_T2	0	0	0	0	0	0	-0.77	-0.8	0	0	0	0	0	0
3/28/2024 21:43	52401	GRPA_T2	1	2	1	0.7	0.7	0	-0.51	-0.53	0	0	0	0	0	0
3/28/2024 21:44	52402	GRPA_T2	6	6	0	1.35	1.4	0.05	0	0	0	0	0	0	0	0
3/28/2024 21:44	54501	ENOL_T2	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/28/2024 21:44	54204	PENN_T2	3	3	0	0.57	0.67	0.1	0	0	0	0	0	0	0	0
3/28/2024 21:44	56802	BENV_T2	18	46	28	0.12	0.13	0.01	-0.74	-0.75	0	0	0	0	0	0
3/28/2024 21:44	46203	DANV_T2	184	256	72	0.58	0.64	0.06	-1.06	-1.06	0	0	0	0	0	0
3/28/2024 21:44	65001	NEFF_T2	218	238	20	0.22	0.35	0.13	-1.14	-1.2	1	1	0	1200	1200	0
3/28/2024 21:44	54505	ENOL_T2	1	1	0	1.3	1.4	0.1	-1.33	-1.32	1	1	0	600	600	0
3/28/2024 21:44	59301	MCAL_T1	2	2	0	0.25	0.45	0.2	-1.19	-1.2	0	0	0	0	0	0
3/28/2024 21:44	41902	REED_T1	0	0	0	0	0	0	1.02	1.01	0	0	0	0	0	0
3/28/2024 21:44	52401	GRPA_T2	1	2	1	0.7	0.7	0	-0.51	-0.53	0	0	0	0	0	0
3/28/2024 21:44	52403	GRPA_T2	0	10	10	0	0.43	0.43	0	0	0	0	0	0	0	0
3/28/2024 21:44	54202	PENN_T2	148	326	178	0.19	0.22	0.03	0	0	0	0	0	0	0	0
3/28/2024 21:44	59302	MCAL_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/28/2024 21:44	54502	ENOL_T2	1	12	11	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
3/28/2024 21:44	54206	PENN_T2	81	214	133	0.3	0.23	-0.07	-0.08	-0.1	0	0	0	0	0	0
3/28/2024 21:44	41901	REED_T1	5	4	-1	0.18	0.18	0	0	0	0	0	0	0	0	0
3/28/2024 21:44	52404	GRPA_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/28/2024 21:44	45602	WOOL_T1	3	3	0	0.5	0.67	0.17	0.38	0.38	0	0	0	0	0	0
3/28/2024 21:45	43103	SMIL_T2	20	21	1	0.87	0.8	-0.07	0	0	0	0	0	0	0	0
3/28/2024 21:45	58001	WCAR_T1	4	4	0	1.03	1.13	0.1	0	0	0	0	0	0	0	0
3/28/2024 21:45	43104	SMIL_T2	0	0	0	0	0	0	-0.79	-0.82	1	1	0	300	300	0
3/28/2024 21:45	52401	GRPA_T2	1	2	1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
3/28/2024 21:45	58402	MORO_T1	0	0	0	0	0	0	-0.44	-0.43	2	2	0	1500	1500	0
3/28/2024 21:45	59101	WALK_T2	0	0	0	0	0	0	0.46	0.56	1	1	0	600	600	0
3/28/2024 21:45	58003	WCAR_T1	1	1	0	1.5	1.6	0.1	-0.05	-0.08	1	1	0	600	600	0
3/28/2024 21:45	52404	GRPA_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
3/28/2024 21:45	40101	HUNT_T2	0	0	0	0	0	0	-1.18	-1.22	0	0	0	0	0	0
3/28/2024 21:45	43102	SMIL_T2	7	6	-1	0.73	0.67	-0.06	0	0	0	0	0	0	0	0
3/28/2024 21:45	55002	NEWP_T1	4	5	1	1.6	1.42	-0.18	-0.28	-0.27	0	0	0	0	0	0
3/28/2024 21:45	43105	SMIL_T2	22	17	-5	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
3/28/2024 21:45	43108	SMIL_T2	3	3	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
3/28/2024 21:45	52402	GRPA_T2	6	6	0	1.35	1.38	0.03	-0.86	-0.9	0	0	0	0	0	0
3/28/2024 21:45	56501	ROCK_T2	18	17	-1	0.17	0.21	0.04	-0.01	-0.01	0	0	0	0	0	0
3/28/2024 21:45	52403	GRPA_T2	9	11	2	0.26	0.43	0.17	0	0	0	0	0	0	0	0
3/28/2024 21:46	59402	RFLD_T2	0	0	0	0	0	0	-0.9	-0.87	1	1	0	450	450	0
3/28/2024 21:46	45702	LIND_T2	1	2	1	0.5	0.4	-0.1	-0.55	-0.55	0	0	0	0	0	0
3/28/2024 21:48	40902	JESH_T1	34	407	373	0.18	0.2	0.02	-0.83	-0.84	0	0	0	0	0	0
3/28/2024 21:48	40901	JESH_T1	86	195	109	0.26	0.33	0.07	0	0	0	0	0	0	0	0
3/28/2024 21:48	40903	JESH_T1	90	237	147	0.15	0.31	0.16	0	0	0	0	0	0	0	0
3/28/2024 21:48	43802	SWIL_T1	0	0	0	0	0	0	-0.33	-0.31	1	1	0	600	600	0
3/28/2024 21:48	43801	SWIL_T1	11	47	36	0.75	0.35	-0.4	0	0	0	0	0	0	0	0
3/28/2024 21:49	53902	HALI_T2	1	1	0	6.4	6	-0.4	0	0	0	0	0	0	0	0
3/28/2024 21:49	53901	HALI_T2	3	1	-2	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
3/28/2024 21:49	53903	HALI_T2	13	2	-11	0.4	1.8	1.4	-0.16	-0.2	0	0	0	0	0	0
3/29/2024 7:59	40101	HUNT_T2	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
3/29/2024 8:13	46203	DANV_T2	65	78	13	0.4	0.33	-0.07	-0.94	-0.86	0	0	0	0	0	0
3/29/2024 8:27	52404	GRPA_T2	0	1	1	0	0	0	0.17	0.6	0	0	0	0	0	0
3/29/2024 8:27	52402	GRPA_T2	5	4	-1	1.32	1.55	0.23	0	0	0	0	0	0	0	0
3/29/2024 8:28	52404	GRPA_T2	0	1	1	0	0	0	0.17	0.6	0	0	0	0	0	0
3/29/2024 8:28	52402	GRPA_T2	5	4	-1	1.32	1.55	0.23	0	0	0	0	0	0	0	0
3/29/2024 8:37	56802	BENV_T2	153	211	58	0.32	0.46	0.14	-2.77	-2.72	0	0	0	0	0	0
3/29/2024 8:47	64702	LITI_T2	0	0	0	0	0	0	-0.75	-0.78	0	0	0	0	0	0
3/29/2024 8:52	67402	WAKE_T2	0	0	0	0	0	0	0.31	0.3	1	1	0	600	600	0
3/29/2024 8:53	56802	BENV_T2	191	207	16	0.45	0.42	-0.03	-1.44	-1.43	0	0	0	0	0	0
3/29/2024 8:54	56802	BENV_T2	191	207	16	0.45	0.42	-0.03	-1.44	-1.43	0	0	0	0	0	0
3/29/2024 9:08	10805	CHHI_T2	7	7	0	2.44	1.46	-0.98	-0.48	-0.57	0	0	0	0	0	0
3/29/2024 9:16	45001	LIME_2	6	21	15	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/29/2024 9:16	45003	LIME_2	1	1	0	4.5	4.7	0.2	0	0	1	1	0	1200	1200	0
3/29/2024 9:21	67402	WAKE_T2	0	0	0	0	0	0	0.3	0.37	1	1	0	600	600	0
3/29/2024 9:27	11804	FRAN_T1	0	0	0	0	0	0	0.89	0.86	0	0	0	0	0	0
3/29/2024 9:33	59302	MCAL_T1	2	7	5	0.65	0.57	-0.08	0	0	0	0	0	0	0	0
3/29/2024 9:33	59301	MCAL_T1	78	80	2	0.69	0.58	-0.11	-0.82	-0.87	0	0	0	0	0	0
3/29/2024 9:34	42001	MNVL_T2	2	0	-2	0.15	0	-0.15	0.07	0.04	0	0	0	0	0	0
3/29/2024 9:34	42002	MNVL_T2	1	1	0	4.8	5.5	0.7	0	0	0	0	0	0	0	0
3/29/2024 9:34	43202	MVIL_T2	26	52	26	0.2	0.34	0.14	-0.57	-0.64	0	0	0	0	0	0
3/29/2024 9:37	56802	BENV_T2	30	61	31	0.19	0.19	0	-2.72	-2.65	0	0	0	0	0	0
3/29/2024 9:37	60602	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 9:37	60605	NCOL_T2	0	0	0	0	0	0	-0.96	0	0	0	0	0	0	0
3/29/2024 9:38	56802	BENV_T2	30	61	31	0.19	0.19	0	-1.33	-1.26	0	0	0	0	0	0
3/29/2024 9:38	26002	WDAM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 9:38	26001	WDAM_T1	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
3/29/2024 9:38	46203	DANV_T2	105	166	61	0.5	0.51	0.01	-1.01	-0.93	0	0	0	0	0	0
3/29/2024 9:38	64101	REFR_T1	0	0	0	0	0	0	-0.79	-0.82	0	0	0	0	0	0
3/29/2024 9:39	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 9:39	60602	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 9:40	56802	BENV_T2	30	61	31	0.19	0.19	0	-1.33	-1.26	0	0	0	0	0	0
3/29/2024 9:40	60602	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 9:40	10801	CHHI_T1	1	2	1	0.4	0.1	-0.3	-0.96	-0.96	1	1	0	900	900	0
3/29/2024 9:40	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 9:41	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 9:41	60602	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 9:42	56802	BENV_T2	30	61	31	0.19	0.19	0	-1.33	-1.26	0	0	0	0	0	0
3/29/2024 9:42	60602	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 9:42	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 9:44	52402	GRPA_T2	11	9	-2	0.75	0.92	0.17	-0.94	-0.92	0	0	0	0	0	0
3/29/2024 9:44	52403	GRPA_T2	10	20	10	0.38	0.56	0.18	0	0	0	0	0	0	0	0
3/29/2024 9:44	52401	GRPA_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/29/2024 9:48	59402	RFLD_T2	10	17	7	0.21	0.34	0.13	-0.81	-0.8	1	1	0	450	450	0
3/29/2024 9:49	41902	REED_T1	0	0	0	0	0	0	1.08	1.16	0	0	0	0	0	0
3/29/2024 9:49	66504	SMAN_T2	1	3	2	0.6	0.4	-0.2	-1.16	-1.13	0	0	0	0	0	0
3/29/2024 9:49	66505	SMAN_T2	3	1	-2	0.23	0.3	0.07	0	0	0	0	0	0	0	0
3/29/2024 9:49	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 9:49	66502	SMAN_T2	1	6	5	0.4	0.22	-0.18	0	0	0	0	0	0	0	0
3/29/2024 9:49	41901	REED_T1	9	9	0	0.52	0.37	-0.15	0	0	0	0	0	0	0	0
3/29/2024 9:49	58402	MORO_T1	0	0	0	0	0	0	-0.24	-0.28	2	2	0	1500	1500	0
3/29/2024 9:50	58402	MORO_T1	0	0	0	0	0	0	-0.24	-0.28	2	2	0	1500	1500	0
3/29/2024 9:50	41901	REED_T1	9	9	0	0.52	0.37	-0.15	0	0	0	0	0	0	0	0
3/29/2024 9:50	41902	REED_T1	0	0	0	0	0	0	1.08	1.16	0	0	0	0	0	0
3/29/2024 9:51	67901	WNHO_T2	146	179	33	0.43	0.41	-0.02	-0.52	-0.46	0	0	0	0	0	0
3/29/2024 9:51	59402	RFLD_T2	10	17	7	0.21	0.34	0.13	-2.44	-2.39	3	3	0	1350	1350	0
3/29/2024 9:54	59102	WALK_T2	94	100	6	0.81	0.87	0.06	0	0	0	0	0	0	0	0
3/29/2024 9:54	26001	WDAM_T1	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
3/29/2024 9:54	26002	WDAM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 9:54	20403	ASHF_T2	7	3	-4	0.26	0.43	0.17	0.11	0.05	0	0	0	0	0	0
3/29/2024 9:54	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 9:54	59101	WALK_T2	1	2	1	0.5	0.6	0.1	1.41	1.33	0	0	0	0	0	0
3/29/2024 9:55	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 9:55	60602	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 10:00	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 10:00	42301	MOWR_T2	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
3/29/2024 10:00	66501	SMAN_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/29/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
3/29/2024 10:00	62605	ENGL_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/29/2024 10:00	67401	WAKE_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
3/29/2024 10:00	62607	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/29/2024 10:00	58001	WCAR_T1	4	4	0	0.68	0.8	0.12	0	0	0	0	0	0	0	0
3/29/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	0.2	-0.17	0	0	0	0	0	0
3/29/2024 10:00	54204	PENN_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
3/29/2024 10:00	40602	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/29/2024 10:00	60701	BREC_T1	0	2	2	0	0.35	0.35	0.14	0.2	1	1	0	600	600	0
3/29/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.38	-0.42	0	0	0	0	0	0
3/29/2024 10:00	67204	TEHI_T2	2	1	-1	0.35	0.7	0.35	-0.14	-0.16	0	0	0	0	0	0
3/29/2024 10:00	41901	REED_T1	9	8	-1	0.37	0.39	0.02	0	0	0	0	0	0	0	0
3/29/2024 10:00	58401	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/29/2024 10:00	40601	PIGR_T1	136	101	-35	0.27	0.25	-0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/29/2024 10:00	52401	GRPA_T2	2	8	6	0.35	0.26	-0.09	-0.69	-0.72	0	0	0	0	0	0
3/29/2024 10:00	64303	LINC_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/29/2024 10:00	66504	SMAN_T2	3	3	0	0.4	0.6	0.2	-1.13	-1.14	0	0	0	0	0	0
3/29/2024 10:00	40101	HUNT_T2	1	1	0	0.3	0.5	0.2	-1.18	-1.2	0	0	0	0	0	0
3/29/2024 10:00	10801	OHHI_T1	2	7	5	0.1	0.3	0.2	-0.96	-0.97	1	1	0	900	900	0
3/29/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
3/29/2024 10:00	54206	PENN_T2	40	39	-1	0.12	0.13	0.01	0	-0.03	0	0	0	0	0	0
3/29/2024 10:00	16402	MOPO_T1	2	1	-1	0.45	0	-0.45	0.2	0.16	0	0	0	0	0	0
3/29/2024 10:00	57304	MOAL_T2	0	1	1	0	0.3	0.3	-0.56	-0.45	0	0	0	0	0	0
3/29/2024 10:00	57303	MOAL_T2	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
3/29/2024 10:00	52402	GRPA_T2	9	11	2	0.9	0.9	0	0	0	0	0	0	0	0	0
3/29/2024 10:00	64305	LINC_T1	4	7	3	0.3	0.36	0.06	-0.57	-0.6	0	0	0	0	0	0
3/29/2024 10:00	56504	ROCK_T2	3	5	2	0.9	1.04	0.14	0	0	0	0	0	0	0	0
3/29/2024 10:00	56501	ROCK_T2	35	92	57	0.22	0.22	0	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.4	0.42	1	1	0	600	600	0
3/29/2024 10:00	58003	WCAR_T1	1	2	1	1.3	0.75	-0.55	0.65	0.67	0	0	0	0	0	0
3/29/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.28	-0.15	2	2	0	1500	1500	0
3/29/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.34	-0.35	1	1	0	600	600	0
3/29/2024 10:00	60101	COCA_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
3/29/2024 10:00	55002	NEWP_T1	10	9	-1	1.17	1.21	0.04	-0.42	-0.34	0	0	0	0	0	0
3/29/2024 10:00	17002	RIRO_T2	4	17	13	0.85	0.32	-0.53	0.58	0.57	0	0	0	0	0	0
3/29/2024 10:00	66502	SMAN_T2	4	7	3	0.25	0.33	0.08	0	0	0	0	0	0	0	0
3/29/2024 10:00	53901	HALI_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
3/29/2024 10:00	41902	REED_T1	0	0	0	0	0	0	2.31	2.3	0	0	0	0	0	0
3/29/2024 10:00	53903	HALI_T2	2	5	3	1.2	0.56	-0.64	-0.14	-0.14	0	0	0	0	0	0
3/29/2024 10:00	54202	PENN_T2	3	2	-1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/29/2024 10:00	66505	SMAN_T2	1	3	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
3/29/2024 10:00	40603	PIGR_T1	3	5	2	0.27	0.5	0.23	0.35	0.35	0	0	0	0	0	0
3/29/2024 10:00	55001	NEWP_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
3/29/2024 10:00	52403	GRPA_T2	20	34	14	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
3/29/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
3/29/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.64	0.67	0	0	0	0	0	0
3/29/2024 10:00	53902	HALI_T2	1	2	1	5.4	2.8	-2.6	0	0	0	0	0	0	0	0
3/29/2024 10:06	67402	WAKE_T2	0	0	0	0	0	0	0.4	0.42	1	1	0	600	600	0
3/29/2024 10:06	40201	BEGA_T2	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
3/29/2024 10:06	67401	WAKE_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
3/29/2024 10:06	53501	EVIL_T2	3	4	1	0.7	0.68	-0.02	-0.72	-0.68	0	0	0	0	0	0
3/29/2024 10:06	67204	TEHI_T2	2	1	-1	0.35	0.7	0.35	-0.14	-0.16	0	0	0	0	0	0
3/29/2024 10:07	67901	WNHO_T2	158	180	22	0.41	0.45	0.04	-0.46	-0.42	0	0	0	0	0	0
3/29/2024 10:07	42903	MIDD_T2	125	133	8	0.78	0.81	0.03	-0.12	0.03	0	0	0	0	0	0
3/29/2024 10:07	42901	MIDD_T2	374	412	38	0.5	0.53	0.03	0	0	0	0	0	0	0	0
3/29/2024 10:07	46004	BERW_T2	2	2	0	0.4	0.3	-0.1	-0.81	-0.75	0	0	0	0	0	0
3/29/2024 10:07	45602	WOOL_T1	5	9	4	0.38	0.44	0.06	0.52	0.54	0	0	0	0	0	0
3/29/2024 10:07	67605	WARW_T1	27	35	8	0.49	0.66	0.17	-0.92	-0.96	0	0	0	0	0	0
3/29/2024 10:07	46002	BERW_T2	1	3	2	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/29/2024 10:07	42902	MIDD_T2	200	211	11	0.56	0.56	0	0	0	0	0	0	0	0	0
3/29/2024 10:08	48302	ORWI_T2	2	2	0	0.9	1.1	0.2	0	0.05	0	0	0	0	0	0
3/29/2024 10:08	24105	EHAZ_T1	4	4	0	6.43	6.35	-0.08	-0.65	-0.67	1	1	0	1200	1200	0
3/29/2024 10:08	20403	ASHF_T2	3	10	7	0.43	0.3	-0.13	0.05	0.06	0	0	0	0	0	0
3/29/2024 10:08	56802	BENV_T2	43	121	78	0.21	0.22	0.01	-2.52	-2.62	0	0	0	0	0	0
3/29/2024 10:08	15001	BLMO_T1	1	6	5	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
3/29/2024 10:08	47104	MARL_T1	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
3/29/2024 10:08	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/29/2024 10:08	46203	DANV_T2	147	159	12	0.5	0.55	0.05	-1.01	-0.99	0	0	0	0	0	0
3/29/2024 10:08	24102	EHAZ_T1	7	7	0	1.61	0.68	-0.93	0	0	0	0	0	0	0	0
3/29/2024 10:08	20401	ASHF_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/29/2024 10:09	44302	BEAV_T2	386	453	67	0.7	0.74	0.04	0.3	0.3	0	0	0	0	0	0
3/29/2024 10:09	56802	BENV_T2	43	121	78	0.21	0.22	0.01	-1.26	-1.31	0	0	0	0	0	0
3/29/2024 10:09	44301	BEAV_T2	13	15	2	0.58	0.6	0.02	0	0	0	0	0	0	0	0
3/29/2024 10:10	62605	ENGL_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/29/2024 10:10	62607	ENGL_T1	1	0	-1	0.1	0	-0.1	-1.09	-1.1	1	1	0	300	300	0
3/29/2024 10:10	20401	ASHF_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/29/2024 10:10	43202	MVIL_T2	28	57	29	0.19	0.42	0.23	0	0	0	0	0	0	0	0
3/29/2024 10:10	20403	ASHF_T2	3	10	7	0.43	0.3	-0.13	0.1	0.12	0	0	0	0	0	0
3/29/2024 10:10	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 10:10	46004	BERW_T2	2	2	0	0.4	0.3	-0.1	-1.49	-1.51	0	0	0	0	0	0
3/29/2024 10:10	56802	BENV_T2	43	121	78	0.21	0.22	0.01	-1.26	-1.31	0	0	0	0	0	0
3/29/2024 10:10	46002	BERW_T2	1	3	2	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/29/2024 10:10	43201	MVIL_T2	0	1	1	0	0.1	0.1	-0.34	-0.34	0	0	0	0	0	0
3/29/2024 10:10	46203	DANV_T2	147	159	12	0.5	0.55	0.05	-1.01	-0.99	0	0	0	0	0	0
3/29/2024 10:11	15001	BLMO_T1	1	6	5	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
3/29/2024 10:11	56802	BENV_T2	43	121	78	0.21	0.22	0.01	-1.26	-1.31	0	0	0	0	0	0
3/29/2024 10:11	10801	OHHI_T1	2	7	5	0.1	0.3	0.2	-0.97	-0.96	1	1	0	900	900	0
3/29/2024 10:12	52404	GRPA_T2	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
3/29/2024 10:12	52401	GRPA_T2	2	8	6	0.35	0.26	-0.09	0	0	0	0	0	0	0	0
3/29/2024 10:12	52403	GRPA_T2	20	34	14	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
3/29/2024 10:12	56802	BENV_T2	43	121	78	0.21	0.22	0.01	-2.52	-2.62	0	0	0	0	0	0
3/29/2024 10:12	52402	GRPA_T2	9	11	2	0.9	0.9	0	0	0	0	0	0	0	0	0
3/29/2024 10:13	52401	GRPA_T2	2	8	6	0.35	0.26	-0.09	0	0	0	0	0	0	0	0
3/29/2024 10:13	52402	GRPA_T2	9	11	2	0.9	0.9	0	0	0	0	0	0	0	0	0
3/29/2024 10:13	52403	GRPA_T2	20	34	14	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
3/29/2024 10:13	52404	GRPA_T2	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
3/29/2024 10:16	52402	GRPA_T2	8	17	9	1.04	0.72	-0.32	0	0	0	0	0	0	0	0
3/29/2024 10:16	64702	LITI_T2	0	0	0	0	0	0	-0.77	-0.8	0	0	0	0	0	0
3/29/2024 10:16	64802	MONE_T2	24	52	28	0.26	0.28	0.02	0.32	0.3	0	0	0	0	0	0
3/29/2024 10:16	52403	GRPA_T2	26	25	-1	0.54	0.62	0.08	0.03	0	0	0	0	0	0	0
3/29/2024 10:16	52401	GRPA_T2	2	19	17	0.45	0.23	-0.22	0	0	0	0	0	0	0	0
3/29/2024 10:16	64801	MONE_T2	29	87	58	0.36	0.37	0.01	0	0	0	0	0	0	0	0
3/29/2024 10:17	52402	GRPA_T2	8	17	9	1.04	0.72	-0.32	0	0	0	0	0	0	0	0
3/29/2024 10:17	52403	GRPA_T2	26	25	-1	0.54	0.62	0.08	0	0	0	0	0	0	0	0
3/29/2024 10:17	52401	GRPA_T2	2	19	17	0.45	0.23	-0.22	-0.72	-0.69	0	0	0	0	0	0
3/29/2024 10:17	52503	PROG_T2	0	0	0	0	0	0	-0.57	-0.53	1	1	0	900	900	0
3/29/2024 10:17	59402	RFLD_T2	17	18	1	0.34	0.46	0.12	-1.52	-1.51	2	2	0	900	900	0
3/29/2024 10:18	56504	ROCK_T2	3	5	2	1.2	1.14	-0.06	0	0	0	0	0	0	0	0
3/29/2024 10:18	65001	NEFF_T2	236	245	9	0.32	0.44	0.12	-0.96	-0.98	1	1	0	1200	1200	0
3/29/2024 10:18	65003	NEFF_T2	6	11	5	0.37	0.37	0	0	0	0	0	0	0	0	0
3/29/2024 10:18	59402	RFLD_T2	17	18	1	0.34	0.46	0.12	-0.76	-0.75	1	1	0	450	450	0
3/29/2024 10:18	65002	NEFF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/29/2024 10:18	65004	NEFF_T2	3	5	2	0.37	0.4	0.03	0	0	0	0	0	0	0	0
3/29/2024 10:18	65005	NEFF_T2	2	2	0	0.25	0.75	0.5	0	0	0	0	0	0	0	0
3/29/2024 10:18	57401	SPAN_T1	5	53	48	0.86	0.34	-0.52	-1.18	-1.14	1	1	0	600	600	0
3/29/2024 10:18	57403	SPAN_T1	10	25	15	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
3/29/2024 10:18	56501	ROCK_T2	20	98	78	0.28	0.21	-0.07	-0.02	-0.02	0	0	0	0	0	0
3/29/2024 10:19	57401	SPAN_T1	5	53	48	0.86	0.34	-0.52	-2.36	-2.28	2	2	0	1200	1200	0
3/29/2024 10:19	59402	RFLD_T2	17	18	1	0.34	0.46	0.12	-0.76	-0.75	1	1	0	450	450	0
3/29/2024 10:19	52503	PROG_T2	0	0	0	0	0	0	-0.57	-0.53	1	1	0	900	900	0
3/29/2024 10:19	42201	SHEN_T2	0	0	0	0	0	0	-0.03	0.01	1	1	0	600	600	0
3/29/2024 10:19	57403	SPAN_T1	10	25	15	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
3/29/2024 10:20	42201	SHEN_T2	0	0	0	0	0	0	-0.03	0.01	1	1	0	600	600	0
3/29/2024 10:20	59102	WALK_T2	100	107	7	0.87	0.83	-0.04	0	0	0	0	0	0	0	0
3/29/2024 10:20	59101	WALK_T2	2	2	0	0.6	0.55	-0.05	1.33	1.42	0	0	0	0	0	0
3/29/2024 10:22	44301	BEAV_T2	13	14	1	0.63	0.66	0.03	0	0	0	0	0	0	0	0
3/29/2024 10:22	57403	SPAN_T1	10	25	15	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
3/29/2024 10:22	57401	SPAN_T1	5	53	48	0.86	0.34	-0.52	-1.18	-1.14	1	1	0	600	600	0
3/29/2024 10:22	44302	BEAV_T2	408	464	56	0.71	0.75	0.04	0.3	0.3	0	0	0	0	0	0
3/29/2024 10:22	56802	BENV_T2	69	201	132	0.21	0.3	0.09	-1.26	-1.31	0	0	0	0	0	0
3/29/2024 10:23	56501	ROCK_T2	20	98	78	0.28	0.21	-0.07	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 10:23	56504	ROCK_T2	3	5	2	1.2	1.14	-0.06	0	0	0	0	0	0	0	0
3/29/2024 10:23	56802	BENV_T2	69	201	132	0.21	0.3	0.09	-1.31	-1.3	0	0	0	0	0	0
3/29/2024 10:25	56802	BENV_T2	69	201	132	0.21	0.3	0.09	-1.31	-1.3	0	0	0	0	0	0
3/29/2024 10:26	65004	NEFF_T2	3	5	2	0.37	0.4	0.03	0	0	0	0	0	0	0	0
3/29/2024 10:26	41801	GOCI_T2	41	81	40	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
3/29/2024 10:26	65002	NEFF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/29/2024 10:26	65003	NEFF_T2	6	11	5	0.37	0.37	0	0	0	0	0	0	0	0	0
3/29/2024 10:26	65005	NEFF_T2	2	2	0	0.25	0.75	0.5	0	0	0	0	0	0	0	0
3/29/2024 10:26	65001	NEFF_T2	236	245	9	0.32	0.44	0.12	-0.98	-1.06	1	1	0	1200	1200	0
3/29/2024 10:27	52401	GRPA_T2	2	19	17	0.45	0.23	-0.22	0	0	0	0	0	0	0	0
3/29/2024 10:27	52402	GRPA_T2	8	17	9	1.04	0.72	-0.32	0	0	0	0	0	0	0	0
3/29/2024 10:27	52403	GRPA_T2	26	25	-1	0.54	0.62	0.08	0	0.03	0	0	0	0	0	0
3/29/2024 10:28	50105	HARR_T3	8	8	0	5.48	5.41	-0.07	0	0	0	0	0	0	0	0
3/29/2024 10:28	50102	HARR_T3	3	16	13	0.13	0.19	0.06	0	0	0	0	0	0	0	0
3/29/2024 10:28	50103	HARR_T3	4	8	4	0.78	0.55	-0.23	-1.04	-1.02	1	1	0	1200	1200	0
3/29/2024 10:28	50201	HARR_T3	2	2	0	4.5	4.5	0	0	0	0	0	0	0	0	0
3/29/2024 10:29	64203	KINZ_T1	1	1	0	0.1	0.5	0.4	0.73	0.81	1	1	0	600	600	0
3/29/2024 10:29	64201	KINZ_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 10:29	64202	KINZ_T1	4	8	4	0.15	0.21	0.06	0	0	0	0	0	0	0	0
3/29/2024 10:29	64204	KINZ_T1	2	3	1	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
3/29/2024 10:30	50201	HARR_T3	2	2	0	4.5	4.65	0.15	0	0	0	0	0	0	0	0
3/29/2024 10:30	50103	HARR_T3	5	8	3	0.7	0.68	-0.02	-1.04	-1.02	1	1	0	1200	1200	0
3/29/2024 10:30	50102	HARR_T3	9	17	8	0.22	0.22	0	0	0	0	0	0	0	0	0
3/29/2024 10:30	50105	HARR_T3	8	8	0	5.43	5.55	0.12	0	0	0	0	0	0	0	0
3/29/2024 10:31	52403	GRPA_T2	22	28	6	0.49	0.6	0.11	0	0	0	0	0	0	0	0
3/29/2024 10:31	52402	GRPA_T2	10	20	10	0.9	0.72	-0.18	-0.94	-0.93	0	0	0	0	0	0
3/29/2024 10:31	64202	KINZ_T1	8	4	-4	0.21	0.25	0.04	0	0	0	0	0	0	0	0
3/29/2024 10:31	43202	MVIL_T2	57	58	1	0.42	0.4	-0.02	-0.62	-0.61	0	0	0	0	0	0
3/29/2024 10:31	64204	KINZ_T1	2	3	1	0.35	0.53	0.18	0	0	0	0	0	0	0	0
3/29/2024 10:31	52401	GRPA_T2	7	18	11	0.21	0.22	0.01	0	0	0	0	0	0	0	0
3/29/2024 10:31	64201	KINZ_T1	4	3	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/29/2024 10:31	64203	KINZ_T1	1	1	0	0.4	0.5	0.1	0.73	0.81	1	1	0	600	600	0
3/29/2024 10:31	43201	MVIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/29/2024 10:32	64305	LINC_T1	7	6	-1	0.34	0.25	-0.09	0	0	0	0	0	0	0	0
3/29/2024 10:32	64301	LINC_T1	0	0	0	0	0	0	0.25	0.33	0	0	0	0	0	0
3/29/2024 10:32	64303	LINC_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/29/2024 10:34	13704	SCHN_T2	0	1	1	0	0.1	0.1	-0.38	-0.37	0	0	0	0	0	0
3/29/2024 10:34	13701	SCHN_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
3/29/2024 10:35	56504	ROCK_T2	5	4	-1	1.04	1.08	0.04	0	0	0	0	0	0	0	0
3/29/2024 10:35	56501	ROCK_T2	91	72	-19	0.22	0.22	0	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 10:36	26001	WDAM_T1	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
3/29/2024 10:36	26002	WDAM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 10:37	43104	SMIL_T2	2	3	1	0.3	0.2	-0.1	-0.77	-0.78	1	1	0	300	300	0
3/29/2024 10:37	43101	SMIL_T2	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
3/29/2024 10:37	58003	WCAR_T1	2	2	0	0.75	0.85	0.1	0.67	0.68	0	0	0	0	0	0
3/29/2024 10:37	46301	ROHR_T1	13	17	4	0.42	0.31	-0.11	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/29/2024 10:37	58001	WCAR_T1	4	4	0	0.8	0.78	-0.02	0	0	0	0	0	0	0	0
3/29/2024 10:37	43105	SMIL_T2	3	3	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/29/2024 10:37	43102	SMIL_T2	6	6	0	0.43	0.55	0.12	0	0	0	0	0	0	0	0
3/29/2024 10:37	46302	ROHR_T1	4	3	-1	1.93	2.37	0.44	0.18	0.18	0	0	0	0	0	0
3/29/2024 10:37	43103	SMIL_T2	17	9	-8	0.59	0.46	-0.13	0	0	0	0	0	0	0	0
3/29/2024 10:38	59101	WALK_T2	2	2	0	0.4	0.6	0.2	1.3	1.41	0	0	0	0	0	0
3/29/2024 10:38	56501	ROCK_T2	91	72	-19	0.22	0.22	0	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 10:38	59102	WALK_T2	104	112	8	0.8	0.83	0.03	0	0	0	0	0	0	0	0
3/29/2024 10:38	13704	SCHN_T2	0	1	1	0	0.1	0.1	-0.37	-0.37	0	0	0	0	0	0
3/29/2024 10:38	58003	WCAR_T1	2	2	0	0.75	0.85	0.1	0.68	0.65	0	0	0	0	0	0
3/29/2024 10:38	56504	ROCK_T2	5	4	-1	1.04	1.08	0.04	0	0	0	0	0	0	0	0
3/29/2024 10:38	58001	WCAR_T1	4	4	0	0.8	0.78	-0.02	0	0	0	0	0	0	0	0
3/29/2024 10:38	10805	CHIH_T2	1	6	5	7.9	7.8	-0.1	-0.63	-0.5	0	0	0	0	0	0
3/29/2024 10:38	13701	SCHN_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
3/29/2024 10:39	45501	DERR_T2	1	2	1	0.4	0.15	-0.25	0.09	0.69	2	2	0	1800	1800	0
3/29/2024 10:39	46203	DANV_T2	157	129	-28	0.54	0.5	-0.04	0	0	0	0	0	0	0	0
3/29/2024 10:39	45302	WBER_T2	17	10	-7	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
3/29/2024 10:39	46201	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/29/2024 10:39	45301	WBER_T2	166	81	-85	0.22	0.17	-0.05	0	0	0	0	0	0	0	0
3/29/2024 10:39	45303	WBER_T2	10	12	2	0.74	0.78	0.04	-0.1	-0.09	0	0	0	0	0	0
3/29/2024 10:39	46206	DANV_T2	0	1	1	0	0.2	0.2	3.26	3.23	1	1	0	1200	1200	0
3/29/2024 10:41	53903	HALI_T2	5	7	2	0.54	0.59	0.05	-0.13	-0.12	0	0	0	0	0	0
3/29/2024 10:41	53901	HALI_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/29/2024 10:41	53902	HALI_T2	2	2	0	2.8	2.8	0	0	0	0	0	0	0	0	0
3/29/2024 10:42	60803	BUCK_T1	0	0	0	0	0	0	-0.52	-0.54	1	1	0	600	600	0
3/29/2024 10:43	53901	HALI_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/29/2024 10:43	53903	HALI_T2	5	7	2	0.54	0.59	0.05	-0.13	-0.12	0	0	0	0	0	0
3/29/2024 10:43	53902	HALI_T2	2	2	0	2.8	2.8	0	0	0	0	0	0	0	0	0
3/29/2024 10:44	42901	MIDD_T2	383	456	73	0.52	0.6	0.08	0	0	0	0	0	0	0	0
3/29/2024 10:44	42902	MIDD_T2	201	244	43	0.52	0.66	0.14	-0.56	-0.42	0	0	0	0	0	0
3/29/2024 10:44	42903	MIDD_T2	128	150	22	0.76	0.83	0.07	0	0	0	0	0	0	0	0
3/29/2024 10:45	46801	HEPB_T2	2	2	0	0.9	1	0.1	0.66	0.66	0	0	0	0	0	0
3/29/2024 10:45	45001	LIME_2	35	40	5	0.43	0.59	0.16	0	0	0	0	0	0	0	0
3/29/2024 10:45	45003	LIME_2	1	1	0	4.5	4.6	0.1	0	0	1	1	0	1200	1200	0
3/29/2024 10:45	46803	HEPB_T2	1	3	2	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
3/29/2024 10:46	42902	MIDD_T2	226	240	14	0.6	0.64	0.04	-0.56	-0.42	0	0	0	0	0	0
3/29/2024 10:46	42901	MIDD_T2	402	449	47	0.54	0.6	0.06	0	0	0	0	0	0	0	0
3/29/2024 10:46	42903	MIDD_T2	131	147	16	0.8	0.82	0.02	0	0	0	0	0	0	0	0
3/29/2024 10:47	64801	MONE_T2	67	65	-2	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
3/29/2024 10:47	64802	MONE_T2	44	27	-17	0.29	0.41	0.12	0.29	0.32	0	0	0	0	0	0
3/29/2024 10:48	67002	STHI_T2	111	143	32	0.25	0.27	0.02	1.27	1.21	0	0	0	0	0	0
3/29/2024 10:48	67001	STHI_T2	281	335	54	0.19	0.19	0	0	0	0	0	0	0	0	0
3/29/2024 10:50	52006	LING_T2	4	4	0	0.4	0.68	0.28	0	0	0	0	0	0	0	0
3/29/2024 10:50	52004	LING_T2	6	6	0	0.9	1.07	0.17	0.26	0.25	0	0	0	0	0	0
3/29/2024 10:50	52002	LING_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
3/29/2024 10:50	67002	STHI_T2	111	143	32	0.25	0.27	0.02	0.64	0.61	0	0	0	0	0	0
3/29/2024 10:50	67001	STHI_T2	281	335	54	0.19	0.19	0	0	0	0	0	0	0	0	0
3/29/2024 10:51	67002	STHI_T2	111	143	32	0.25	0.27	0.02	2.54	2.43	0	0	0	0	0	0
3/29/2024 10:51	40201	BEGA_T2	1	3	2	1.3	0.7	-0.6	0	0	0	0	0	0	0	0
3/29/2024 10:51	55105	WERT_T1	1	3	2	0.2	0.2	0	-0.66	-0.68	0	0	0	0	0	0
3/29/2024 10:51	67001	STHI_T2	281	335	54	0.19	0.19	0	0	0	0	0	0	0	0	0
3/29/2024 10:52	57401	SPAN_T1	53	20	-33	0.34	0.52	0.18	0	0	0	0	0	0	0	0
3/29/2024 10:52	27502	WEIS_T2	4	4	0	0.35	0.53	0.18	-0.6	-0.51	0	0	0	0	0	0
3/29/2024 10:52	57403	SPAN_T1	25	34	9	0.27	0.38	0.11	0.12	0.08	0	0	0	0	0	0
3/29/2024 10:52	27503	WEIS_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/29/2024 10:53	66703	STRA_T1	71	80	9	0.25	0.23	-0.02	-0.05	-0.1	0	0	0	0	0	0
3/29/2024 10:53	66702	STRA_T1	7	4	-3	0.37	0.53	0.16	0	0	0	0	0	0	0	0
3/29/2024 10:53	66701	STRA_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
3/29/2024 10:54	41602	CLEV_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/29/2024 10:54	45402	WBLO_T2	2	4	2	0.5	0.58	0.08	-0.71	-0.73	0	0	0	0	0	0
3/29/2024 10:54	41601	CLEV_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
3/29/2024 10:55	41602	CLEV_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/29/2024 10:55	41601	CLEV_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
3/29/2024 10:57	46001	BERW_T1	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
3/29/2024 10:57	46005	BERW_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
3/29/2024 10:58	40101	HUNT_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
3/29/2024 11:02	54204	PENN_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/29/2024 11:02	54202	PENN_T2	5	8	3	0.14	0.15	0.01	0	0	0	0	0	0	0	0
3/29/2024 11:02	54206	PENN_T2	45	49	4	0.14	0.17	0.03	0	0	0	0	0	0	0	0
3/29/2024 11:03	54202	PENN_T2	5	8	3	0.14	0.15	0.01	0	0	0	0	0	0	0	0
3/29/2024 11:03	54204	PENN_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/29/2024 11:03	54206	PENN_T2	45	49	4	0.14	0.17	0.03	0	0	0	0	0	0	0	0
3/29/2024 11:04	67001	STHI_T2	314	296	-18	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
3/29/2024 11:04	67002	STHI_T2	134	119	-15	0.27	0.27	0	1.21	1.26	0	0	0	0	0	0
3/29/2024 11:06	67001	STHI_T2	314	296	-18	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
3/29/2024 11:06	67002	STHI_T2	134	119	-15	0.27	0.27	0	1.21	1.26	0	0	0	0	0	0
3/29/2024 11:07	15703	TANN_T2	1	1	0	6.6	6.3	-0.3	0	0	0	0	0	0	0	0
3/29/2024 11:07	67001	STHI_T2	314	296	-18	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
3/29/2024 11:07	67002	STHI_T2	134	119	-15	0.27	0.27	0	0.61	0.63	0	0	0	0	0	0
3/29/2024 11:07	15704	TANN_T1	0	0	0	0	0	0	-1.17	-1.16	0	0	0	0	0	0
3/29/2024 11:07	56802	BENV_T2	175	147	-28	0.35	0.3	-0.05	-1.28	-1.28	0	0	0	0	0	0
3/29/2024 11:08	42701	AUGU_T1	3	3	0	0.7	0.57	-0.13	0	0	2	2	0	1800	1800	0
3/29/2024 11:08	56802	BENV_T2	175	147	-28	0.35	0.3	-0.05	-3.85	-3.85	0	0	0	0	0	0
3/29/2024 11:09	44302	BEAV_T2	458	492	34	0.79	0.83	0.04	0.29	0.28	0	0	0	0	0	0
3/29/2024 11:09	42501	ALTA_T2	0	0	0	0	0	0	0.02	0.07	1	1	0	600	600	0
3/29/2024 11:09	44301	BEAV_T2	15	14	-1	0.64	0.77	0.13	0	0	0	0	0	0	0	0
3/29/2024 11:09	56501	ROCK_T2	41	139	98	0.27	0.22	-0.05	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 11:09	56504	ROCK_T2	4	8	4	0.98	0.79	-0.19	0	0	0	0	0	0	0	0
3/29/2024 11:10	56802	BENV_T2	175	147	-28	0.35	0.3	-0.05	-1.28	-1.28	0	0	0	0	0	0
3/29/2024 11:12	53903	HALI_T2	7	8	1	0.43	0.75	0.32	-0.12	-0.14	0	0	0	0	0	0
3/29/2024 11:12	53901	HALI_T2	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
3/29/2024 11:12	21901	HUMB_T1	0	0	0	0	0	0	-2.18	-2.17	0	0	0	0	0	0
3/29/2024 11:12	53902	HALI_T2	2	3	1	2.8	2.17	-0.63	0	0	0	0	0	0	0	0
3/29/2024 11:14	61803	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 11:14	61801	EELI_T2	2	6	4	0.2	0.3	0.1	-0.66	-0.72	0	0	0	0	0	0
3/29/2024 11:14	56504	ROCK_T2	4	8	4	0.98	0.79	-0.19	0	0	0	0	0	0	0	0
3/29/2024 11:14	56501	ROCK_T2	41	139	98	0.27	0.22	-0.05	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 11:14	42701	AUGU_T1	3	3	0	0.7	0.57	-0.13	0	0	2	2	0	1800	1800	0
3/29/2024 11:15	63802	HEMP_T1	5	4	-1	0.2	0.1	-0.1	0.23	0.16	0	0	0	0	0	0
3/29/2024 11:15	63801	HEMP_T1	13	11	-2	0.48	0.52	0.04	0	0	0	0	0	0	0	0
3/29/2024 11:15	64202	KINZ_T1	7	10	3	0.13	0.26	0.13	0	0	0	0	0	0	0	0
3/29/2024 11:15	64201	KINZ_T1	5	9	4	0.12	0.19	0.07	0	0	0	0	0	0	0	0
3/29/2024 11:15	64203	KINZ_T1	1	1	0	0.9	1	0.1	0.67	0.7	1	1	0	600	600	0
3/29/2024 11:15	63803	HEMP_T1	13	10	-3	0.43	0.36	-0.07	0	0	0	0	0	0	0	0
3/29/2024 11:15	64204	KINZ_T1	2	3	1	0.8	0.77	-0.03	0	0	0	0	0	0	0	0
3/29/2024 11:15	45702	LIND_T2	1	2	1	0.5	0.55	0.05	-0.38	-0.39	0	0	0	0	0	0
3/29/2024 11:15	63804	HEMP_T1	3	3	0	2.3	2.3	0	0	0	0	0	0	0	0	0
3/29/2024 11:16	47001	HUGH_T2	1	2	1	0.7	0.45	-0.25	-0.84	-0.84	0	0	0	0	0	0
3/29/2024 11:16	47002	HUGH_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/29/2024 11:18	41902	REED_T1	1	1	0	0.5	0.8	0.3	1.09	1.09	0	0	0	0	0	0
3/29/2024 11:18	41901	REED_T1	9	9	0	0.46	0.39	-0.07	0	0	0	0	0	0	0	0
3/29/2024 11:18	58401	MORO_T1	2	3	1	0.2	0.3	0.1	-1.17	-1.2	1	1	0	600	600	0
3/29/2024 11:19	56504	ROCK_T2	7	8	1	0.84	0.6	-0.24	0	0	0	0	0	0	0	0
3/29/2024 11:19	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/29/2024 11:19	56501	ROCK_T2	44	148	104	0.27	0.23	-0.04	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 11:19	64202	KINZ_T1	7	10	3	0.13	0.26	0.13	0	0	0	0	0	0	0	0
3/29/2024 11:19	64201	KINZ_T1	5	9	4	0.12	0.19	0.07	0	0	0	0	0	0	0	0
3/29/2024 11:19	64204	KINZ_T1	2	3	1	0.8	0.77	-0.03	0	0	0	0	0	0	0	0
3/29/2024 11:19	58401	MORO_T1	2	3	1	0.2	0.3	0.1	-1.17	-1.2	1	1	0	600	600	0
3/29/2024 11:19	64203	KINZ_T1	1	1	0	0.9	1	0.1	0.67	0.7	1	1	0	600	600	0
3/29/2024 11:20	66505	SMAN_T2	5	5	0	0.3	0.6	0.3	-0.1	-0.19	2	2	0	1100	1100	0
3/29/2024 11:20	66501	SMAN_T2	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0	0
3/29/2024 11:20	40601	PIGR_T1	72	201	129	0.23	0.39	0.16	0	0	0	0	0	0	0	0
3/29/2024 11:20	40602	PIGR_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
3/29/2024 11:20	41901	REED_T1	9	9	0	0.46	0.39	-0.07	0	0	0	0	0	0	0	0
3/29/2024 11:20	40603	PIGR_T1	1	4	3	0.6	0.4	-0.2	0.33	0.33	0	0	0	0	0	0
3/29/2024 11:20	66504	SMAN_T2	3	4	1	0.67	0.78	0.11	0	0	0	0	0	0	0	0
3/29/2024 11:20	66502	SMAN_T2	7	12	5	0.36	0.26	-0.1	0	0	0	0	0	0	0	0
3/29/2024 11:20	41902	REED_T1	1	1	0	0.5	0.8	0.3	1.09	1.09	0	0	0	0	0	0
3/29/2024 11:22	40601	PIGR_T1	72	201	129	0.23	0.39	0.16	0	0	0	0	0	0	0	0
3/29/2024 11:22	40603	PIGR_T1	1	4	3	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/29/2024 11:22	40602	PIGR_T1	0	2	2	0	0.55	0.55	-2.02	-2.16	3	3	0	1800	1800	0
3/29/2024 11:23	67402	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/29/2024 11:23	46005	BERW_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/29/2024 11:23	46001	BERW_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
3/29/2024 11:23	67401	WAKE_T2	3	3	0	0.37	0.33	-0.04	-0.82	-0.76	0	0	0	0	0	0
3/29/2024 11:24	56504	ROCK_T2	7	8	1	0.84	0.6	-0.24	0	0	0	0	0	0	0	0
3/29/2024 11:24	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/29/2024 11:24	56501	ROCK_T2	44	148	104	0.27	0.23	-0.04	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 11:25	42901	MIDD_T2	386	416	30	0.5	0.54	0.04	0	0	0	0	0	0	0	0
3/29/2024 11:25	42903	MIDD_T2	125	130	5	0.76	0.89	0.13	0	0	0	0	0	0	0	0
3/29/2024 11:25	42902	MIDD_T2	210	244	34	0.56	0.63	0.07	-0.57	-0.47	0	0	0	0	0	0
3/29/2024 11:26	52401	GRPA_T2	5	7	2	0.28	0.3	0.02	0	0	0	0	0	0	0	0
3/29/2024 11:26	52403	GRPA_T2	24	31	7	0.51	0.71	0.2	-0.03	-0.02	0	0	0	0	0	0
3/29/2024 11:26	52402	GRPA_T2	21	32	11	0.8	0.73	-0.07	0	0	0	0	0	0	0	0
3/29/2024 11:28	58803	COCO_T1	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
3/29/2024 11:28	42903	MIDD_T2	125	130	5	0.76	0.89	0.13	0	0	0	0	0	0	0	0
3/29/2024 11:28	42901	MIDD_T2	386	416	30	0.5	0.54	0.04	0	0	0	0	0	0	0	0
3/29/2024 11:28	42902	MIDD_T2	210	244	34	0.56	0.63	0.07	-0.57	-0.47	0	0	0	0	0	0
3/29/2024 11:29	64305	LINC_T1	5	6	1	0.3	0.37	0.07	-0.63	-0.58	0	0	0	0	0	0
3/29/2024 11:29	64303	LINC_T1	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
3/29/2024 11:29	58803	COCO_T1	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
3/29/2024 11:31	58803	COCO_T1	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
3/29/2024 11:32	17002	RIRO_T2	5	10	5	0.74	0.49	-0.25	0.53	0.54	0	0	0	0	0	0
3/29/2024 11:33	58401	MORO_T1	1	4	3	0.3	0.33	0.03	-1.2	-1.18	1	1	0	600	600	0
3/29/2024 11:34	64301	LINC_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 11:34	64303	LINC_T1	1	2	1	1	0.65	-0.35	0	0	0	0	0	0	0	0
3/29/2024 11:34	64305	LINC_T1	5	8	3	0.38	0.38	0	-0.63	-0.58	0	0	0	0	0	0
3/29/2024 11:35	66702	STRA_T1	2	5	3	0.9	0.42	-0.48	0	0	0	0	0	0	0	0
3/29/2024 11:35	59102	WALK_T2	165	206	41	0.72	0.7	-0.02	0	0	0	0	0	0	0	0
3/29/2024 11:35	66703	STRA_T1	82	180	98	0.25	0.39	0.14	-0.1	-0.12	0	0	0	0	0	0
3/29/2024 11:35	66701	STRA_T1	2	3	1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
3/29/2024 11:35	56501	ROCK_T2	137	124	-13	0.22	0.24	0.02	-0.02	-0.02	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/29/2024 11:35	56504	ROCK_T2	7	7	0	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
3/29/2024 11:35	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/29/2024 11:35	59101	WALK_T2	5	9	4	0.44	0.39	-0.05	2.36	2.47	0	0	0	0	0	0
3/29/2024 11:36	56504	ROCK_T2	7	7	0	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
3/29/2024 11:36	56501	ROCK_T2	137	124	-13	0.22	0.24	0.02	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 11:36	13704	SCHN_T2	1	1	0	0.1	0.3	0.2	-0.37	-0.38	0	0	0	0	0	0
3/29/2024 11:36	13701	SCHN_T2	2	4	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
3/29/2024 11:36	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/29/2024 11:36	58803	COCO_T1	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
3/29/2024 11:37	65002	NEFF_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
3/29/2024 11:37	56504	ROCK_T2	7	7	0	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
3/29/2024 11:37	65005	NEFF_T2	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
3/29/2024 11:37	13701	SCHN_T2	2	4	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
3/29/2024 11:37	13704	SCHN_T2	1	1	0	0.1	0.3	0.2	-0.37	-0.38	0	0	0	0	0	0
3/29/2024 11:37	65004	NEFF_T2	4	9	5	0.45	0.36	-0.09	0	0	0	0	0	0	0	0
3/29/2024 11:37	56501	ROCK_T2	137	124	-13	0.22	0.24	0.02	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 11:37	65003	NEFF_T2	8	11	3	0.48	0.48	0	0	0	0	0	0	0	0	0
3/29/2024 11:37	65001	NEFF_T2	221	249	28	0.28	0.4	0.12	-0.99	-1.03	1	1	0	1200	1200	0
3/29/2024 11:37	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/29/2024 11:37	67502	WEWI_T2	7	8	1	0.49	0.54	0.05	-0.44	-0.39	0	0	0	0	0	0
3/29/2024 11:38	67001	STHI_T2	234	272	38	0.16	0.17	0.01	0	0	0	0	0	0	0	0
3/29/2024 11:38	59202	THOM_T1	993	1048	55	1.19	1.26	0.07	0	0	0	0	0	0	0	0
3/29/2024 11:38	67502	WEWI_T2	7	8	1	0.49	0.54	0.05	-0.39	-0.44	0	0	0	0	0	0
3/29/2024 11:38	67002	STHI_T2	77	108	31	0.31	0.29	-0.02	0.64	0.62	0	0	0	0	0	0
3/29/2024 11:38	59201	THOM_T1	122	128	6	0.98	1.1	0.12	0	0	0	0	0	0	0	0
3/29/2024 11:38	56504	ROCK_T2	7	7	0	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
3/29/2024 11:38	56501	ROCK_T2	137	124	-13	0.22	0.24	0.02	-0.02	-0.02	0	0	0	0	0	0
3/29/2024 11:38	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/29/2024 11:39	59101	WALK_T2	5	9	4	0.44	0.39	-0.05	1.24	1.2	0	0	0	0	0	0
3/29/2024 11:39	54504	ENOL_T2	3	3	0	0.47	0.83	0.36	0	0	0	0	0	0	0	0
3/29/2024 11:39	54502	ENOL_T2	3	3	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/29/2024 11:39	44301	BEAV_T2	14	18	4	0.69	0.77	0.08	0	0	0	0	0	0	0	0
3/29/2024 11:39	54501	ENOL_T2	4	5	1	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
3/29/2024 11:39	44302	BEAV_T2	464	510	46	0.82	0.89	0.07	0.31	0.3	0	0	0	0	0	0
3/29/2024 11:39	54503	ENOL_T2	0	1	1	0	0.2	0.2	-1.29	-1.29	1	1	0	600	600	0
3/29/2024 11:39	54505	ENOL_T2	3	3	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/29/2024 11:39	59102	WALK_T2	165	206	41	0.72	0.7	-0.02	0	0	0	0	0	0	0	0
3/29/2024 11:40	56501	ROCK_T2	137	124	-13	0.22	0.24	0.02	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 11:40	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/29/2024 11:40	56504	ROCK_T2	7	7	0	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
3/29/2024 11:41	54505	ENOL_T2	3	3	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/29/2024 11:41	54504	ENOL_T2	3	3	0	0.47	0.83	0.36	0	0	0	0	0	0	0	0
3/29/2024 11:41	54503	ENOL_T2	0	1	1	0	0.2	0.2	-1.29	-1.29	1	1	0	600	600	0
3/29/2024 11:41	54501	ENOL_T2	4	5	1	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
3/29/2024 11:41	44302	BEAV_T2	464	510	46	0.82	0.89	0.07	0.31	0.3	0	0	0	0	0	0
3/29/2024 11:41	44301	BEAV_T2	14	18	4	0.69	0.77	0.08	0	0	0	0	0	0	0	0
3/29/2024 11:41	54502	ENOL_T2	3	3	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/29/2024 11:45	45001	LIME_2	39	40	1	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
3/29/2024 11:45	63801	HEMP_T1	11	11	0	0.52	0.39	-0.13	0	0	0	0	0	0	0	0
3/29/2024 11:45	64305	LINC_T1	6	10	4	0.33	0.42	0.09	-0.58	-0.64	0	0	0	0	0	0
3/29/2024 11:45	45003	LIME_2	2	3	1	2.5	1.9	-0.6	0	0	2	2	0	2400	2400	0
3/29/2024 11:45	63804	HEMP_T1	3	1	-2	2.3	6.6	4.3	0	0	0	0	0	0	0	0
3/29/2024 11:45	63802	HEMP_T1	4	4	0	0.1	0.15	0.05	0.23	0.1	0	0	0	0	0	0
3/29/2024 11:45	64802	MONE_T2	25	27	2	0.44	0.45	0.01	0.56	0.54	0	0	0	0	0	0
3/29/2024 11:45	63803	HEMP_T1	9	11	2	0.37	0.31	-0.06	0	0	0	0	0	0	0	0
3/29/2024 11:45	64801	MONE_T2	44	51	7	0.38	0.31	-0.07	0	0	0	0	0	0	0	0
3/29/2024 11:45	64303	LINC_T1	2	1	-1	0.65	1.4	0.75	0	0	0	0	0	0	0	0
3/29/2024 11:45	64301	LINC_T1	0	1	1	0	0.1	0.1	0.34	0.31	0	0	0	0	0	0
3/29/2024 11:45	45002	LIME_2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
3/29/2024 11:47	45003	LIME_2	2	3	1	2.5	1.9	-0.6	0	0	1	1	0	1200	1200	0
3/29/2024 11:47	54202	PENN_T2	6	23	17	0.17	0.15	-0.02	0.81	0.6	0	0	0	0	0	0
3/29/2024 11:47	45002	LIME_2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
3/29/2024 11:47	54206	PENN_T2	11	53	42	0.29	0.25	-0.04	0	0	0	0	0	0	0	0
3/29/2024 11:47	54204	PENN_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
3/29/2024 11:47	45001	LIME_2	39	40	1	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
3/29/2024 11:48	45002	LIME_2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
3/29/2024 11:48	45003	LIME_2	2	3	1	2.5	1.9	-0.6	0	0	1	1	0	1200	1200	0
3/29/2024 11:48	45001	LIME_2	39	40	1	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
3/29/2024 11:50	64305	LINC_T1	6	10	4	0.33	0.42	0.09	-0.58	-0.64	0	0	0	0	0	0
3/29/2024 11:50	41901	REED_T1	9	10	1	0.29	0.57	0.28	0	0	0	0	0	0	0	0
3/29/2024 11:50	42802	SELI_T1	2	2	0	0.2	0.5	0.3	-1.78	-1.76	2	2	0	1800	1800	0
3/29/2024 11:50	41902	REED_T1	1	2	1	0.8	0.8	0	1.16	1.09	0	0	0	0	0	0
3/29/2024 11:50	43201	MVIL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/29/2024 11:50	64303	LINC_T1	2	1	-1	0.65	1.4	0.75	0	0	0	0	0	0	0	0
3/29/2024 11:50	42801	SELI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/29/2024 11:50	64301	LINC_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 11:50	43202	MVIL_T2	61	62	1	0.42	0.46	0.04	-0.62	-0.6	0	0	0	0	0	0
3/29/2024 11:51	41902	REED_T1	1	2	1	0.8	0.8	0	1.16	1.09	0	0	0	0	0	0
3/29/2024 11:51	41901	REED_T1	9	10	1	0.29	0.57	0.28	0	0	0	0	0	0	0	0
3/29/2024 11:52	45301	WBER_T2	42	183	141	0.14	0.21	0.07	0	0	0	0	0	0	0	0
3/29/2024 11:52	45302	WBER_T2	4	20	16	0.15	0.19	0.04	0	0	0	0	0	0	0	0
3/29/2024 11:52	13704	SCHN_T2	1	1	0	0.3	0.1	-0.2	-0.38	-0.38	0	0	0	0	0	0
3/29/2024 11:52	13701	SCHN_T2	2	6	4	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/29/2024 11:52	45303	WBER_T2	12	84	72	0.77	0.36	-0.41	-0.24	-0.39	0	0	0	0	0	0
3/29/2024 11:53	44302	BEAV_T2	479	500	21	0.84	0.87	0.03	0.3	0.29	0	0	0	0	0	0
3/29/2024 11:53	46206	DANV_T2	1	0	-1	0.4	0	-0.4	3.24	3.15	1	1	0	1200	1200	0
3/29/2024 11:53	13704	SCHN_T2	1	1	0	0.3	0.1	-0.2	-0.38	-0.37	0	0	0	0	0	0
3/29/2024 11:53	46203	DANV_T2	202	236	34	0.91	0.84	-0.07	0	0	0	0	0	0	0	0
3/29/2024 11:53	13701	SCHN_T2	2	6	4	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/29/2024 11:53	46201	DANV_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/29/2024 11:53	44301	BEAV_T2	15	19	4	0.81	0.77	-0.04	0	0	0	0	0	0	0	0
3/29/2024 11:54	45301	WBER_T2	42	183	141	0.14	0.21	0.07	0	0	0	0	0	0	0	0
3/29/2024 11:54	45302	WBER_T2	4	20	16	0.15	0.19	0.04	0	0	0	0	0	0	0	0
3/29/2024 11:54	61103	BERK_T5	4	8	4	0.2	0.3	0.1	0.04	-0.01	0	0	0	0	0	0
3/29/2024 11:54	61101	BERK_T5	12	12	0	0.43	0.61	0.18	0	0	0	0	0	0	0	0
3/29/2024 11:54	45303	WBER_T2	12	84	72	0.77	0.36	-0.41	-0.19	-0.24	0	0	0	0	0	0
3/29/2024 11:54	61102	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/29/2024 11:55	61101	BERK_T5	12	12	0	0.43	0.61	0.18	0	0	0	0	0	0	0	0
3/29/2024 11:55	54502	ENOL_T2	3	4	1	0.4	0.38	-0.02	-1.14	-1.14	1	1	0	600	600	0
3/29/2024 11:55	61102	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/29/2024 11:55	61103	BERK_T5	4	8	4	0.2	0.3	0.1	0.07	-0.01	0	0	0	0	0	0
3/29/2024 11:55	54504	ENOL_T2	1	3	2	1.5	0.87	-0.63	0	0	0	0	0	0	0	0
3/29/2024 11:55	44302	BEAV_T2	479	500	21	0.84	0.87	0.03	0.3	0.29	0	0	0	0	0	0
3/29/2024 11:55	63802	HEMP_T1	4	4	0	0.1	0.15	0.05	0.1	0.2	0	0	0	0	0	0
3/29/2024 11:55	54503	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/29/2024 11:55	54505	ENOL_T2	3	4	1	0.87	0.8	-0.07	-1.36	-1.33	1	1	0	600	600	0
3/29/2024 11:55	63803	HEMP_T1	9	11	2	0.37	0.31	-0.06	0	0	0	0	0	0	0	0
3/29/2024 11:55	63804	HEMP_T1	3	1	-2	2.3	6.6	4.3	0	0	0	0	0	0	0	0
3/29/2024 11:55	54501	ENOL_T2	5	5	0	0.26	0.44	0.18	0	0	0	0	0	0	0	0
3/29/2024 11:55	44301	BEAV_T2	15	19	4	0.81	0.77	-0.04	0	0	0	0	0	0	0	0
3/29/2024 11:55	63801	HEMP_T1	11	11	0	0.52	0.39	-0.13	0	0	0	0	0	0	0	0
3/29/2024 11:56	54504	ENOL_T2	1	3	2	1.5	0.87	-0.63	0	0	0	0	0	0	0	0
3/29/2024 11:56	54505	ENOL_T2	3	4	1	0.87	0.8	-0.07	-1.36	-1.33	1	1	0	600	600	0
3/29/2024 11:56	44302	BEAV_T2	479	500	21	0.84	0.87	0.03	0.3	0.29	0	0	0	0	0	0
3/29/2024 11:56	54502	ENOL_T2	3	4	1	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
3/29/2024 11:56	54503	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/29/2024 11:56	44301	BEAV_T2	15	19	4	0.81	0.77	-0.04	0	0	0	0	0	0	0	0
3/29/2024 11:56	54501	ENOL_T2	5	5	0	0.26	0.44	0.18	0	0	0	0	0	0	0	0
3/29/2024 11:57	54505	ENOL_T2	3	4	1	0.87	0.8	-0.07	-1.36	-1.33	1	1	0	600	600	0
3/29/2024 11:57	54504	ENOL_T2	1	3	2	1.5	0.87	-0.63	0	0	0	0	0	0	0	0
3/29/2024 11:57	54503	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/29/2024 11:57	54501	ENOL_T2	5	5	0	0.26	0.44	0.18	0	0	0	0	0	0	0	0
3/29/2024 11:57	54502	ENOL_T2	3	4	1	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
3/29/2024 12:01	64303	LINC_T1	1	3	2	1.2	0.63	-0.57	0	0	0	0	0	0	0	0
3/29/2024 12:01	64305	LINC_T1	8	14	6	0.33	0.35	0.02	-0.64	-0.68	0	0	0	0	0	0
3/29/2024 12:01	45003	LIME_2	3	3	0	1.87	2	0.13	0	0	1	1	0	1200	1200	0
3/29/2024 12:01	45002	LIME_2	2	1	-1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
3/29/2024 12:01	64301	LINC_T1	1	1	0	0.1	0.1	0	0.31	0.32	0	0	0	0	0	0
3/29/2024 12:01	45001	LIME_2	39	34	-5	0.49	0.37	-0.12	0	0	0	0	0	0	0	0
3/29/2024 12:02	45002	LIME_2	2	1	-1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
3/29/2024 12:02	45001	LIME_2	39	34	-5	0.49	0.37	-0.12	0	0	0	0	0	0	0	0
3/29/2024 12:02	45003	LIME_2	3	3	0	1.87	2	0.13	0	0	2	2	0	2400	2400	0
3/29/2024 12:03	65002	NEFF_T2	2	15	13	0.4	0.19	-0.21	0	0	0	0	0	0	0	0
3/29/2024 12:03	65004	NEFF_T2	9	13	4	0.36	0.42	0.06	0	0	0	0	0	0	0	0
3/29/2024 12:03	65005	NEFF_T2	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
3/29/2024 12:03	65001	NEFF_T2	247	272	25	0.4	0.62	0.22	-1.1	-1.13	1	1	0	1200	1200	0
3/29/2024 12:03	65003	NEFF_T2	10	36	26	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
3/29/2024 12:05	58401	MORO_T1	3	5	2	0.27	0.36	0.09	-1.21	-1.2	1	1	0	600	600	0
3/29/2024 12:06	65003	NEFF_T2	10	36	26	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
3/29/2024 12:06	65001	NEFF_T2	247	272	25	0.4	0.62	0.22	0	0	0	0	0	0	0	0
3/29/2024 12:06	65004	NEFF_T2	9	13	4	0.36	0.42	0.06	-0.51	-0.52	0	0	0	0	0	0
3/29/2024 12:06	64305	LINC_T1	8	14	6	0.33	0.35	0.02	-0.64	-0.68	0	0	0	0	0	0
3/29/2024 12:06	65002	NEFF_T2	2	15	13	0.4	0.19	-0.21	0	0	0	0	0	0	0	0
3/29/2024 12:06	64301	LINC_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/29/2024 12:06	65005	NEFF_T2	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
3/29/2024 12:06	64303	LINC_T1	1	3	2	1.2	0.63	-0.57	0	0	0	0	0	0	0	0
3/29/2024 12:09	67502	WEWI_T2	7	15	8	0.6	0.43	-0.17	-0.37	-0.39	0	0	0	0	0	0
3/29/2024 12:10	67502	WEWI_T2	7	15	8	0.6	0.43	-0.17	-0.37	-0.39	0	0	0	0	0	0
3/29/2024 12:11	63804	HEMP_T1	1	3	2	6.8	2.3	-4.5	0	0	0	0	0	0	0	0
3/29/2024 12:11	54501	ENOL_T2	5	3	-2	0.22	0.83	0.61	0	0	0	0	0	0	0	0
3/29/2024 12:11	54504	ENOL_T2	3	3	0	0.83	0.9	0.07	0	0	0	0	0	0	0	0
3/29/2024 12:11	63802	HEMP_T1	0	5	5	0	0.24	0.24	0.2	0.16	0	0	0	0	0	0
3/29/2024 12:11	54502	ENOL_T2	3	6	3	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/29/2024 12:11	54505	ENOL_T2	3	5	2	1	0.74	-0.26	-1.33	-1.35	1	1	0	600	600	0
3/29/2024 12:11	63801	HEMP_T1	5	17	12	0.34	0.59	0.25	0	0	0	0	0	0	0	0
3/29/2024 12:11	63803	HEMP_T1	5	10	5	0.32	0.47	0.15	0	0	0	0	0	0	0	0
3/29/2024 12:11	54503	ENOL_T2	1	3	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
3/29/2024 12:13	54503	ENOL_T2	1	3	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
3/29/2024 12:13	54501	ENOL_T2	5	3	-2	0.22	0.83	0.61	0	0	0	0	0	0	0	0
3/29/2024 12:13	54505	ENOL_T2	3	5	2	1	0.74	-0.26	-1.33	-1.35	1	1	0	600	600	0
3/29/2024 12:13	54502	ENOL_T2	3	6	3	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/29/2024 12:13	54504	ENOL_T2	3	3	0	0.83	0.9	0.07	0	0	0	0	0	0	0	0
3/29/2024 12:14	13901	SEID_T1	0	0	0	0	0	0	-0.8	-0.86	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/29/2024 12:14	13905	SEID_T1	1	3	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0
3/29/2024 12:14	13904	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 12:15	59301	MCAL_T1	90	83	-7	0.71	0.63	-0.08	-1.11	-1.11	0	0	0	0	0	0
3/29/2024 12:15	59302	MCAL_T1	8	7	-1	0.66	0.71	0.05	0	0	0	0	0	0	0	0
3/29/2024 12:16	64305	LINC_T1	10	16	6	0.37	0.31	-0.06	-0.68	-0.54	0	0	0	0	0	0
3/29/2024 12:16	64303	LINC_T1	1	3	2	1.4	0.7	-0.7	0	0	0	0	0	0	0	0
3/29/2024 12:16	64301	LINC_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/29/2024 12:17	64305	LINC_T1	10	16	6	0.37	0.31	-0.06	0	0	0	0	0	0	0	0
3/29/2024 12:17	41901	REED_T1	10	10	0	0.56	0.63	0.07	0	0	0	0	0	0	0	0
3/29/2024 12:17	64303	LINC_T1	1	3	2	1.4	0.7	-0.7	0	0	0	0	0	0	0	0
3/29/2024 12:17	64301	LINC_T1	1	2	1	0.1	0.25	0.15	0.32	0.3	0	0	0	0	0	0
3/29/2024 12:17	41902	REED_T1	2	6	4	0.8	0.78	-0.02	1.07	1.07	0	0	0	0	0	0
3/29/2024 12:20	41901	REED_T1	10	10	0	0.56	0.63	0.07	0	0	0	0	0	0	0	0
3/29/2024 12:20	41902	REED_T1	2	6	4	0.8	0.78	-0.02	2.14	2.15	0	0	0	0	0	0
3/29/2024 12:21	41901	REED_T1	10	10	0	0.56	0.63	0.07	0	0	0	0	0	0	0	0
3/29/2024 12:21	59201	THOM_T1	134	143	9	1.06	1.09	0.03	0	0	0	0	0	0	0	0
3/29/2024 12:21	41902	REED_T1	2	6	4	0.8	0.78	-0.02	1.07	1.07	0	0	0	0	0	0
3/29/2024 12:21	59202	THOM_T1	1021	1080	59	1.27	1.32	0.05	0	0	0	0	0	0	0	0
3/29/2024 12:22	64305	LINC_T1	10	16	6	0.37	0.31	-0.06	-0.68	-0.54	0	0	0	0	0	0
3/29/2024 12:22	64301	LINC_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/29/2024 12:22	64303	LINC_T1	1	3	2	1.4	0.7	-0.7	0	0	0	0	0	0	0	0
3/29/2024 12:23	13704	SCHN_T2	1	1	0	0.1	0.4	0.3	-0.39	-0.4	0	0	0	0	0	0
3/29/2024 12:23	13701	SCHN_T2	6	8	2	0.38	0.26	-0.12	0	0	0	0	0	0	0	0
3/29/2024 12:25	13704	SCHN_T2	1	1	0	0.1	0.4	0.3	-0.39	-0.4	0	0	0	0	0	0
3/29/2024 12:25	13701	SCHN_T2	6	8	2	0.38	0.26	-0.12	0	0	0	0	0	0	0	0
3/29/2024 12:26	54502	ENOL_T2	4	6	2	0.38	0.4	0.02	-1.15	-1.14	1	1	0	600	600	0
3/29/2024 12:26	54503	ENOL_T2	1	3	2	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
3/29/2024 12:26	54505	ENOL_T2	4	5	1	0.8	0.74	-0.06	0	0	0	0	0	0	0	0
3/29/2024 12:26	54504	ENOL_T2	3	3	0	0.73	1.03	0.3	0	0	0	0	0	0	0	0
3/29/2024 12:26	54501	ENOL_T2	3	5	2	0.63	0.66	0.03	0	0	0	0	0	0	0	0
3/29/2024 12:29	64203	KINZ_T1	3	2	-1	0.47	0.8	0.33	0.63	0.74	1	1	0	600	600	0
3/29/2024 12:29	64204	KINZ_T1	2	4	2	0.85	0.65	-0.2	0	0	0	0	0	0	0	0
3/29/2024 12:29	64202	KINZ_T1	6	12	6	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
3/29/2024 12:29	64201	KINZ_T1	8	11	3	0.89	0.21	-0.68	0	0	0	0	0	0	0	0
3/29/2024 12:30	64201	KINZ_T1	8	12	4	0.58	0.23	-0.35	0	0	0	0	0	0	0	0
3/29/2024 12:30	64203	KINZ_T1	1	3	2	1.2	0.6	-0.6	0.63	0.74	1	1	0	600	600	0
3/29/2024 12:30	64204	KINZ_T1	2	5	3	0.8	0.64	-0.16	0	0	0	0	0	0	0	0
3/29/2024 12:30	64202	KINZ_T1	1	16	15	0.2	0.28	0.08	0	0	0	0	0	0	0	0
3/29/2024 12:31	64204	KINZ_T1	2	5	3	0.8	0.64	-0.16	0	0	0	0	0	0	0	0
3/29/2024 12:31	64202	KINZ_T1	1	16	15	0.2	0.28	0.08	0	0	0	0	0	0	0	0
3/29/2024 12:31	64201	KINZ_T1	8	12	4	0.58	0.23	-0.35	0	0	0	0	0	0	0	0
3/29/2024 12:31	64203	KINZ_T1	1	3	2	1.2	0.6	-0.6	0.63	0.74	1	1	0	600	600	0
3/29/2024 12:32	45002	LIME_2	1	3	2	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
3/29/2024 12:32	64301	LINC_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/29/2024 12:32	45001	LIME_2	27	36	9	0.33	0.42	0.09	0	0	0	0	0	0	0	0
3/29/2024 12:32	64305	LINC_T1	11	13	2	0.38	0.32	-0.06	-0.54	-0.65	0	0	0	0	0	0
3/29/2024 12:32	45003	LIME_2	2	3	1	2.9	2.13	-0.77	0	0	1	1	0	1200	1200	0
3/29/2024 12:32	64303	LINC_T1	3	3	0	0.63	0.73	0.1	0	0	0	0	0	0	0	0
3/29/2024 12:36	13701	SCHN_T2	7	8	1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
3/29/2024 12:36	13704	SCHN_T2	1	1	0	0.4	0.3	-0.1	-0.39	-0.4	0	0	0	0	0	0
3/29/2024 12:37	64301	LINC_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/29/2024 12:37	64305	LINC_T1	11	13	2	0.38	0.32	-0.06	-0.54	-0.65	0	0	0	0	0	0
3/29/2024 12:37	64303	LINC_T1	3	3	0	0.63	0.73	0.1	0	0	0	0	0	0	0	0
3/29/2024 12:51	56504	ROCK_T2	5	9	4	0.4	0.46	0.06	0	0	0	0	0	0	0	0
3/29/2024 12:51	56503	ROCK_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/29/2024 12:51	56501	ROCK_T2	103	78	-25	0.27	0.34	0.07	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 12:52	56503	ROCK_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/29/2024 12:52	56504	ROCK_T2	5	9	4	0.4	0.46	0.06	0	0	0	0	0	0	0	0
3/29/2024 12:52	56501	ROCK_T2	103	78	-25	0.27	0.34	0.07	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 12:53	61101	BERK_T5	11	9	-2	0.52	0.51	-0.01	0	0	0	0	0	0	0	0
3/29/2024 12:53	61103	BERK_T5	8	10	2	0.38	0.48	0.1	0.04	0.08	0	0	0	0	0	0
3/29/2024 12:53	61102	BERK_T5	1	5	4	0.2	0.2	0	0	0	0	0	0	0	0	0
3/29/2024 12:54	56503	ROCK_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/29/2024 12:54	56501	ROCK_T2	103	78	-25	0.27	0.34	0.07	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 12:54	56504	ROCK_T2	5	9	4	0.4	0.46	0.06	0	0	0	0	0	0	0	0
3/29/2024 12:55	41502	FAIR_T2	0	0	0	0	0	0	-0.63	-0.6	0	0	0	0	0	0
3/29/2024 12:58	61102	BERK_T5	1	5	4	0.2	0.2	0	0	0	0	0	0	0	0	0
3/29/2024 12:58	61101	BERK_T5	11	9	-2	0.52	0.51	-0.01	0	0	0	0	0	0	0	0
3/29/2024 12:58	61103	BERK_T5	8	10	2	0.38	0.48	0.1	0.04	0.08	0	0	0	0	0	0
3/29/2024 13:03	42802	SELI_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	900	900	0
3/29/2024 13:03	42801	SELI_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/29/2024 13:04	41901	REED_T1	10	10	0	0.61	0.58	-0.03	0	0	0	0	0	0	0	0
3/29/2024 13:04	49804	UNIV_T1	3	5	2	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
3/29/2024 13:04	41902	REED_T1	6	4	-2	0.75	1.08	0.33	1.07	1.1	0	0	0	0	0	0
3/29/2024 13:04	49803	UNIV_T1	6	11	5	0.37	0.31	-0.06	-1.05	-1.06	0	0	0	0	0	0
3/29/2024 13:05	41901	REED_T1	10	10	0	0.61	0.58	-0.03	0	0	0	0	0	0	0	0
3/29/2024 13:05	41902	REED_T1	6	4	-2	0.75	1.08	0.33	1.07	1.1	0	0	0	0	0	0
3/29/2024 13:05	13704	SCHN_T2	1	1	0	0.3	0.5	0.2	-0.42	-0.4	0	0	0	0	0	0
3/29/2024 13:05	58003	WCAR_T1	10	11	1	0.48	0.6	0.12	0.72	0.7	0	0	0	0	0	0
3/29/2024 13:05	58001	WCAR_T1	5	6	1	1.22	1.05	-0.17	0	0	0	0	0	0	0	0
3/29/2024 13:05	13701	SCHN_T2	1	7	6	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/29/2024 13:06	42801	SELI_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/29/2024 13:06	49803	UNIV_T1	6	11	5	0.37	0.31	-0.06	-1.05	-1.06	0	0	0	0	0	0
3/29/2024 13:06	49804	UNIV_T1	3	5	2	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
3/29/2024 13:06	42802	SELI_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	900	900	0
3/29/2024 13:06	13701	SCHN_T2	1	7	6	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/29/2024 13:06	13704	SCHN_T2	1	1	0	0.3	0.5	0.2	-0.42	-0.4	0	0	0	0	0	0
3/29/2024 13:07	17002	RIRO_T2	36	61	25	0.31	0.23	-0.08	0.56	0.5	0	0	0	0	0	0
3/29/2024 13:09	58001	WCAR_T1	5	6	1	1.22	1.05	-0.17	0	0	0	0	0	0	0	0
3/29/2024 13:09	58003	WCAR_T1	10	11	1	0.48	0.6	0.12	0.7	0.7	0	0	0	0	0	0
3/29/2024 13:11	56501	ROCK_T2	59	128	69	0.37	0.3	-0.07	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 13:11	56504	ROCK_T2	8	11	3	0.36	0.5	0.14	0	0	0	0	0	0	0	0
3/29/2024 13:11	56503	ROCK_T2	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/29/2024 13:22	63803	HEMP_T1	15	25	10	0.42	0.32	-0.1	0	0	0	0	0	0	0	0
3/29/2024 13:22	63802	HEMP_T1	7	13	6	0.23	0.25	0.02	0.18	0.21	0	0	0	0	0	0
3/29/2024 13:22	63804	HEMP_T1	4	7	3	1.88	1.13	-0.75	0	0	0	0	0	0	0	0
3/29/2024 13:22	63801	HEMP_T1	19	26	7	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
3/29/2024 13:29	64203	KINZ_T1	3	1	-2	0.63	1.3	0.67	0.8	0.79	1	1	0	600	600	0
3/29/2024 13:29	64204	KINZ_T1	4	4	0	0.58	0.45	-0.13	0	0	0	0	0	0	0	0
3/29/2024 13:29	64201	KINZ_T1	9	9	0	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
3/29/2024 13:29	64202	KINZ_T1	16	10	-6	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
3/29/2024 13:30	64301	LINC_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/29/2024 13:30	64305	LINC_T1	8	9	1	0.39	0.33	-0.06	-0.61	-0.59	0	0	0	0	0	0
3/29/2024 13:30	64303	LINC_T1	3	4	1	0.53	0.45	-0.08	0	0	0	0	0	0	0	0
3/29/2024 13:32	64201	KINZ_T1	6	10	4	0.15	0.23	0.08	0	0	0	0	0	0	0	0
3/29/2024 13:32	64203	KINZ_T1	1	1	0	1.3	1.1	-0.2	0.8	0.79	1	1	0	600	600	0
3/29/2024 13:32	64202	KINZ_T1	10	10	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/29/2024 13:32	64204	KINZ_T1	4	3	-1	0.43	0.77	0.34	0	0	0	0	0	0	0	0
3/29/2024 13:33	64202	KINZ_T1	10	10	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/29/2024 13:33	64201	KINZ_T1	6	10	4	0.15	0.23	0.08	0	0	0	0	0	0	0	0
3/29/2024 13:33	17002	RIRO_T2	60	180	120	0.23	0.22	-0.01	0.46	0.57	0	0	0	0	0	0
3/29/2024 13:33	64203	KINZ_T1	1	1	0	1.3	1.1	-0.2	0.8	0.79	1	1	0	600	600	0
3/29/2024 13:33	64204	KINZ_T1	4	3	-1	0.43	0.77	0.34	0	0	0	0	0	0	0	0
3/29/2024 13:35	64305	LINC_T1	8	9	1	0.39	0.33	-0.06	-0.61	-0.59	0	0	0	0	0	0
3/29/2024 13:35	58401	MORO_T1	4	7	3	0.23	0.27	0.04	0	0	0	0	0	0	0	0
3/29/2024 13:35	64303	LINC_T1	3	4	1	0.53	0.45	-0.08	0	0	0	0	0	0	0	0
3/29/2024 13:35	64301	LINC_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/29/2024 13:35	58402	MORO_T1	0	0	0	0	0	0	-0.2	-0.18	2	2	0	1500	1500	0
3/29/2024 13:36	46302	ROHR_T1	7	9	2	1.29	1.47	0.18	0.18	0.18	0	0	0	0	0	0
3/29/2024 13:36	59102	WALK_T2	119	133	14	0.89	0.83	-0.06	0	0	0	0	0	0	0	0
3/29/2024 13:36	59101	WALK_T2	5	6	1	0.5	0.45	-0.05	1.25	1.2	0	0	0	0	0	0
3/29/2024 13:36	46301	ROHR_T1	54	76	22	0.24	0.25	0.01	0	0	0	0	0	0	0	0
3/29/2024 13:37	59101	WALK_T2	5	6	1	0.5	0.45	-0.05	1.25	1.2	0	0	0	0	0	0
3/29/2024 13:37	59102	WALK_T2	119	133	14	0.89	0.83	-0.06	0	0	0	0	0	0	0	0
3/29/2024 13:38	56503	ROCK_T2	2	2	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
3/29/2024 13:38	56504	ROCK_T2	8	6	-2	0.53	0.35	-0.18	0	0	0	0	0	0	0	0
3/29/2024 13:38	56501	ROCK_T2	124	69	-55	0.3	0.38	0.08	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 13:40	59101	WALK_T2	5	6	1	0.5	0.45	-0.05	1.2	1.18	0	0	0	0	0	0
3/29/2024 13:40	59102	WALK_T2	119	133	14	0.89	0.83	-0.06	0	0	0	0	0	0	0	0
3/29/2024 13:41	56501	ROCK_T2	124	69	-55	0.3	0.38	0.08	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 13:41	56503	ROCK_T2	2	2	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
3/29/2024 13:41	56504	ROCK_T2	8	6	-2	0.53	0.35	-0.18	0	0	0	0	0	0	0	0
3/29/2024 13:43	13905	SEID_T1	3	6	3	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
3/29/2024 13:43	13901	SEID_T1	0	1	1	0	0.1	0.1	-0.91	0.42	1	0	-1	1200	0	-1200
3/29/2024 13:46	64303	LINC_T1	4	2	-2	0.45	0.7	0.25	0	0	0	0	0	0	0	0
3/29/2024 13:46	56501	ROCK_T2	47	65	18	0.44	0.4	-0.04	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 13:46	64305	LINC_T1	9	6	-3	0.32	0.4	0.08	-0.59	-0.59	0	0	0	0	0	0
3/29/2024 13:46	56503	ROCK_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
3/29/2024 13:46	56504	ROCK_T2	5	7	2	0.24	0.36	0.12	0	0	0	0	0	0	0	0
3/29/2024 13:46	64301	LINC_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/29/2024 13:50	42801	SELI_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/29/2024 13:50	42802	SELI_T1	0	0	0	0	0	0	-0.9	-0.92	1	1	0	900	900	0
3/29/2024 13:51	64303	LINC_T1	4	2	-2	0.45	0.7	0.25	0	0	0	0	0	0	0	0
3/29/2024 13:51	58401	MORO_T1	5	6	1	0.24	0.47	0.23	0	0	0	0	0	0	0	0
3/29/2024 13:51	58402	MORO_T1	0	1	1	0	0.1	0.1	-0.36	-0.32	4	4	0	3000	3000	0
3/29/2024 13:51	64305	LINC_T1	9	6	-3	0.32	0.4	0.08	-0.59	-0.59	0	0	0	0	0	0
3/29/2024 13:51	64301	LINC_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/29/2024 13:53	42802	SELI_T1	0	0	0	0	0	0	-0.92	-0.9	1	1	0	900	900	0
3/29/2024 13:53	42801	SELI_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/29/2024 13:54	59201	THOM_T1	124	140	16	0.89	1.01	0.12	0	0	0	0	0	0	0	0
3/29/2024 13:54	67503	WEWI_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/29/2024 13:54	67502	WEWI_T2	21	44	23	0.45	0.35	-0.1	-1	-1.05	0	0	0	0	0	0
3/29/2024 13:54	59202	THOM_T1	1008	1081	73	1.14	1.29	0.15	0	0	0	0	0	0	0	0
3/29/2024 13:55	54503	ENOL_T2	3	2	-1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
3/29/2024 13:55	54504	ENOL_T2	2	3	1	1.05	0.8	-0.25	0	0	0	0	0	0	0	0
3/29/2024 13:55	54502	ENOL_T2	4	8	4	0.4	0.33	-0.07	-2.28	-2.32	2	2	0	1200	1200	0
3/29/2024 13:55	54505	ENOL_T2	6	6	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
3/29/2024 13:55	54501	ENOL_T2	4	7	3	0.48	0.6	0.12	0	0	0	0	0	0	0	0
3/29/2024 13:56	54502	ENOL_T2	4	8	4	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
3/29/2024 13:56	54501	ENOL_T2	4	7	3	0.48	0.6	0.12	0	0	0	0	0	0	0	0
3/29/2024 13:56	54505	ENOL_T2	6	6	0	0.45	0.7	0.25	-4.04	-4.13	3	3	0	1800	1800	0
3/29/2024 13:56	54504	ENOL_T2	2	3	1	1.05	0.8	-0.25	0	0	0	0	0	0	0	0
3/29/2024 13:56	54503	ENOL_T2	3	2	-1	0.4	0.55	0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/29/2024 13:57	56501	ROCK_T2	47	65	18	0.44	0.4	-0.04	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 13:57	54503	ENOL_T2	3	2	-1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
3/29/2024 13:57	54502	ENOL_T2	4	8	4	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
3/29/2024 13:57	56504	ROCK_T2	5	7	2	0.24	0.36	0.12	0	0	0	0	0	0	0	0
3/29/2024 13:57	56503	ROCK_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
3/29/2024 13:57	54505	ENOL_T2	6	6	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
3/29/2024 13:57	54501	ENOL_T2	4	7	3	0.48	0.6	0.12	0.08	0.07	0	0	0	0	0	0
3/29/2024 13:57	54504	ENOL_T2	2	3	1	1.05	0.8	-0.25	0	0	0	0	0	0	0	0
3/29/2024 13:58	54503	ENOL_T2	3	2	-1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
3/29/2024 13:58	54504	ENOL_T2	2	3	1	1.05	0.8	-0.25	0	0	0	0	0	0	0	0
3/29/2024 13:58	54505	ENOL_T2	6	6	0	0.45	0.7	0.25	-1.35	-1.38	1	1	0	600	600	0
3/29/2024 13:58	54502	ENOL_T2	4	8	4	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
3/29/2024 13:58	54501	ENOL_T2	4	7	3	0.48	0.6	0.12	0	0	0	0	0	0	0	0
3/29/2024 14:00	45003	LIME_2	2	2	0	3	3	0	0	0	1	1	0	1200	1200	0
3/29/2024 14:00	45002	LIME_2	3	4	1	0.23	0.43	0.2	0	0	0	0	0	0	0	0
3/29/2024 14:00	45001	LIME_2	38	40	2	0.51	0.5	-0.01	0	0	0	0	0	0	0	0
3/29/2024 14:01	45002	LIME_2	3	4	1	0.23	0.43	0.2	0	0	0	0	0	0	0	0
3/29/2024 14:01	45001	LIME_2	38	40	2	0.51	0.5	-0.01	0	0	0	0	0	0	0	0
3/29/2024 14:01	45003	LIME_2	2	2	0	3	3	0	0	0	1	1	0	1200	1200	0
3/29/2024 14:02	56503	ROCK_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
3/29/2024 14:02	56501	ROCK_T2	61	70	9	0.39	0.39	0	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 14:02	64305	LINC_T1	6	3	-3	0.4	0.5	0.1	-0.59	-0.57	0	0	0	0	0	0
3/29/2024 14:02	56504	ROCK_T2	6	8	2	0.35	0.71	0.36	0	0	0	0	0	0	0	0
3/29/2024 14:02	64303	LINC_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/29/2024 14:03	58402	MORO_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/29/2024 14:03	58401	MORO_T1	5	8	3	0.3	0.44	0.14	-2.44	-2.43	2	2	0	1200	1200	0
3/29/2024 14:05	67001	STHI_T2	475	489	14	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/29/2024 14:05	67002	STHI_T2	297	331	34	0.24	0.26	0.02	2.51	2.51	0	0	0	0	0	0
3/29/2024 14:05	17002	RIRO_T2	171	147	-24	0.23	0.21	-0.02	0.5	0.48	0	0	0	0	0	0
3/29/2024 14:06	20401	ASHF_T2	3	2	-1	0.33	0.45	0.12	0	0	0	0	0	0	0	0
3/29/2024 14:06	20403	ASHF_T2	12	7	-5	0.38	0.8	0.42	-0.01	-0.03	0	0	0	0	0	0
3/29/2024 14:06	64305	LINC_T1	6	3	-3	0.4	0.5	0.1	-0.59	-0.57	0	0	0	0	0	0
3/29/2024 14:06	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 14:06	64303	LINC_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/29/2024 14:07	58402	MORO_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/29/2024 14:07	58401	MORO_T1	5	8	3	0.3	0.44	0.14	-1.22	-1.22	1	1	0	600	600	0
3/29/2024 14:07	58001	WCAR_T1	6	6	0	0.67	1.03	0.36	0	0	0	0	0	0	0	0
3/29/2024 14:07	15001	BLMO_T1	5	7	2	0.36	0.24	-0.12	0	0	0	0	0	0	0	0
3/29/2024 14:07	58003	WCAR_T1	9	6	-3	0.49	0.73	0.24	0.7	0.69	0	0	0	0	0	0
3/29/2024 14:07	46301	ROHR_T1	66	77	11	0.25	0.28	0.03	0	0	0	0	0	0	0	0
3/29/2024 14:07	46302	ROHR_T1	9	12	3	1.47	1.29	-0.18	0.16	0.16	0	0	0	0	0	0
3/29/2024 14:08	67002	STHI_T2	297	331	34	0.24	0.26	0.02	1.26	1.24	0	0	0	0	0	0
3/29/2024 14:08	59102	WALK_T2	132	173	41	0.82	0.78	-0.04	0	0	0	0	0	0	0	0
3/29/2024 14:08	67001	STHI_T2	475	489	14	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/29/2024 14:08	59101	WALK_T2	6	8	2	0.42	0.45	0.03	1.13	1.16	0	0	0	0	0	0
3/29/2024 14:09	20401	ASHF_T2	3	2	-1	0.33	0.45	0.12	0	0	0	0	0	0	0	0
3/29/2024 14:09	58001	WCAR_T1	6	6	0	0.67	1.03	0.36	0	0	0	0	0	0	0	0
3/29/2024 14:09	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 14:09	58003	WCAR_T1	9	6	-3	0.49	0.73	0.24	0.69	0.69	0	0	0	0	0	0
3/29/2024 14:09	15001	BLMO_T1	5	7	2	0.36	0.24	-0.12	0	0	0	0	0	0	0	0
3/29/2024 14:09	20403	ASHF_T2	12	7	-5	0.38	0.8	0.42	-0.03	0.01	0	0	0	0	0	0
3/29/2024 14:10	67001	STHI_T2	475	489	14	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/29/2024 14:10	67002	STHI_T2	297	331	34	0.24	0.26	0.02	1.26	1.24	0	0	0	0	0	0
3/29/2024 14:12	60801	BUCK_T1	8	16	8	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
3/29/2024 14:12	60803	BUCK_T1	5	11	6	0.18	0.19	0.01	-0.53	-0.54	1	1	0	600	600	0
3/29/2024 14:13	60803	BUCK_T1	5	11	6	0.18	0.19	0.01	0	0	0	0	0	0	0	0
3/29/2024 14:13	54505	ENOL_T2	6	5	-1	0.63	0.78	0.15	0	0	0	0	0	0	0	0
3/29/2024 14:13	54504	ENOL_T2	2	3	1	1.15	0.63	-0.52	0	0	0	0	0	0	0	0
3/29/2024 14:13	54502	ENOL_T2	5	7	2	0.38	0.46	0.08	0	0	0	0	0	0	0	0
3/29/2024 14:13	54501	ENOL_T2	6	7	1	0.47	0.6	0.13	0	0	0	0	0	0	0	0
3/29/2024 14:13	60801	BUCK_T1	8	16	8	0.33	0.28	-0.05	-0.16	-0.17	0	0	0	0	0	0
3/29/2024 14:13	54503	ENOL_T2	2	5	3	0.45	0.4	-0.05	-1.28	-1.3	1	1	0	600	600	0
3/29/2024 14:14	64202	KINZ_T1	10	11	1	0.3	0.43	0.13	0	0	0	0	0	0	0	0
3/29/2024 14:14	64201	KINZ_T1	9	9	0	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
3/29/2024 14:14	64203	KINZ_T1	1	2	1	1.1	0.65	-0.45	0.84	0.84	1	1	0	600	600	0
3/29/2024 14:14	64204	KINZ_T1	3	3	0	0.77	0.73	-0.04	0	0	0	0	0	0	0	0
3/29/2024 14:15	64201	KINZ_T1	6	9	3	0.22	0.23	0.01	0	0	0	0	0	0	0	0
3/29/2024 14:15	64203	KINZ_T1	2	2	0	0.65	0.6	-0.05	0.84	0.84	1	1	0	600	600	0
3/29/2024 14:15	64204	KINZ_T1	3	3	0	0.63	0.7	0.07	0	0	0	0	0	0	0	0
3/29/2024 14:15	64202	KINZ_T1	10	13	3	0.3	0.38	0.08	0	0	0	0	0	0	0	0
3/29/2024 14:16	54204	PENN_T2	3	3	0	0.37	0.5	0.13	0	0	0	0	0	0	0	0
3/29/2024 14:16	54206	PENN_T2	65	84	19	0.23	0.32	0.09	0	0	0	0	0	0	0	0
3/29/2024 14:16	64201	KINZ_T1	6	9	3	0.22	0.23	0.01	0	0	0	0	0	0	0	0
3/29/2024 14:16	64204	KINZ_T1	3	3	0	0.63	0.7	0.07	0	0	0	0	0	0	0	0
3/29/2024 14:16	64202	KINZ_T1	10	13	3	0.3	0.38	0.08	0.62	0.59	0	0	0	0	0	0
3/29/2024 14:16	64203	KINZ_T1	2	2	0	0.65	0.6	-0.05	0.84	0.84	1	1	0	600	600	0
3/29/2024 14:16	54202	PENN_T2	76	234	158	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
3/29/2024 14:17	64201	KINZ_T1	6	9	3	0.22	0.23	0.01	0	0	0	0	0	0	0	0
3/29/2024 14:17	64305	LINC_T1	2	3	1	0.65	0.5	-0.15	-0.57	-0.61	0	0	0	0	0	0
3/29/2024 14:17	54202	PENN_T2	76	234	158	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
3/29/2024 14:17	54204	PENN_T2	3	3	0	0.37	0.5	0.13	0	0	0	0	0	0	0	0
3/29/2024 14:17	54206	PENN_T2	65	84	19	0.23	0.32	0.09	0	0	0	0	0	0	0	0
3/29/2024 14:17	64202	KINZ_T1	10	13	3	0.3	0.38	0.08	0	0	0	0	0	0	0	0
3/29/2024 14:17	64801	MONE_T2	120	281	161	0.42	0.43	0.01	0	0	0	0	0	0	0	0
3/29/2024 14:17	64802	MONE_T2	67	174	107	0.34	0.3	-0.04	0.25	0.27	0	0	0	0	0	0
3/29/2024 14:17	64203	KINZ_T1	2	2	0	0.65	0.6	-0.05	0.84	0.84	1	1	0	600	600	0
3/29/2024 14:17	64303	LINC_T1	1	3	2	0.6	0.73	0.13	0	0	0	0	0	0	0	0
3/29/2024 14:17	64204	KINZ_T1	3	3	0	0.63	0.7	0.07	0	0	0	0	0	0	0	0
3/29/2024 14:18	64303	LINC_T1	1	3	2	0.6	0.73	0.13	0	0	0	0	0	0	0	0
3/29/2024 14:18	64301	LINC_T1	0	0	0	0	0	0	0.29	0.25	0	0	0	0	0	0
3/29/2024 14:18	58402	MORO_T1	1	2	1	0.1	0.15	0.05	-0.2	-0.21	2	2	0	1500	1500	0
3/29/2024 14:18	40601	PIGR_T1	155	225	70	0.38	0.49	0.11	0	0	0	0	0	0	0	0
3/29/2024 14:18	41902	REED_T1	7	6	-1	0.79	0.55	-0.24	1.11	1.1	0	0	0	0	0	0
3/29/2024 14:18	64305	LINC_T1	2	3	1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
3/29/2024 14:18	40602	PIGR_T1	2	3	1	0.4	0.47	0.07	0	0	0	0	0	0	0	0
3/29/2024 14:18	58401	MORO_T1	5	9	4	0.54	0.41	-0.13	-1.22	-1.22	1	1	0	600	600	0
3/29/2024 14:18	41901	REED_T1	10	10	0	0.64	0.71	0.07	0	0	0	0	0	0	0	0
3/29/2024 14:18	40603	PIGR_T1	2	3	1	0.7	0.73	0.03	0.33	0.33	0	0	0	0	0	0
3/29/2024 14:19	58402	MORO_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/29/2024 14:19	59402	RFLD_T2	9	13	4	0.5	0.49	-0.01	-0.99	-1.02	0	0	0	0	0	0
3/29/2024 14:19	17002	RIRO_T2	133	110	-23	0.21	0.19	-0.02	0.48	0.49	0	0	0	0	0	0
3/29/2024 14:19	13704	SCHN_T2	1	1	0	0.5	0.7	0.2	-0.39	-0.39	0	0	0	0	0	0
3/29/2024 14:19	13701	SCHN_T2	6	9	3	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
3/29/2024 14:19	58401	MORO_T1	5	9	4	0.54	0.41	-0.13	-1.22	-1.22	1	1	0	600	600	0
3/29/2024 14:20	13704	SCHN_T2	1	1	0	0.5	0.7	0.2	-0.39	-0.39	0	0	0	0	0	0
3/29/2024 14:20	13701	SCHN_T2	6	9	3	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
3/29/2024 14:21	13704	SCHN_T2	1	1	0	0.5	0.7	0.2	-0.39	-0.39	0	0	0	0	0	0
3/29/2024 14:21	13701	SCHN_T2	6	9	3	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
3/29/2024 14:21	67001	STHI_T2	447	520	73	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/29/2024 14:21	59402	RFLD_T2	9	13	4	0.5	0.49	-0.01	-0.33	-0.34	0	0	0	0	0	0
3/29/2024 14:21	67002	STHI_T2	271	324	53	0.25	0.27	0.02	1.26	1.24	0	0	0	0	0	0
3/29/2024 14:21	20403	ASHF_T2	4	8	4	0.93	0.7	-0.23	-0.03	0.01	0	0	0	0	0	0
3/29/2024 14:21	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 14:21	20401	ASHF_T2	1	2	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
3/29/2024 14:22	41901	REED_T1	10	10	0	0.64	0.71	0.07	0	0	0	0	0	0	0	0
3/29/2024 14:22	58402	MORO_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/29/2024 14:22	45302	WBER_T2	23	35	12	0.25	0.28	0.03	0	0	0	0	0	0	0	0
3/29/2024 14:22	64303	LINC_T1	1	3	2	0.6	0.73	0.13	0	0	0	0	0	0	0	0
3/29/2024 14:22	64305	LINC_T1	2	3	1	0.65	0.5	-0.15	-0.57	-0.61	0	0	0	0	0	0
3/29/2024 14:22	41902	REED_T1	7	6	-1	0.79	0.55	-0.24	1.11	1.1	0	0	0	0	0	0
3/29/2024 14:22	40602	PIGR_T1	2	3	1	0.4	0.47	0.07	0	0	0	0	0	0	0	0
3/29/2024 14:22	58401	MORO_T1	5	9	4	0.54	0.41	-0.13	-1.22	-1.22	1	1	0	600	600	0
3/29/2024 14:22	54202	PENN_T2	76	234	158	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
3/29/2024 14:22	40601	PIGR_T1	155	225	70	0.38	0.49	0.11	0	0	0	0	0	0	0	0
3/29/2024 14:22	54206	PENN_T2	65	84	19	0.23	0.32	0.09	0	0	0	0	0	0	0	0
3/29/2024 14:22	44302	BEAV_T2	463	513	50	0.78	0.9	0.12	0.3	0.33	0	0	0	0	0	0
3/29/2024 14:22	40603	PIGR_T1	2	3	1	0.7	0.73	0.03	0.33	0.33	0	0	0	0	0	0
3/29/2024 14:22	44301	BEAV_T2	17	18	1	0.61	0.69	0.08	0	0	0	0	0	0	0	0
3/29/2024 14:22	45303	WBER_T2	144	180	36	0.31	0.31	0	-0.23	-0.27	0	0	0	0	0	0
3/29/2024 14:22	54204	PENN_T2	3	3	0	0.37	0.5	0.13	0	0	0	0	0	0	0	0
3/29/2024 14:22	45301	WBER_T2	234	279	45	0.32	0.32	0	0	0	0	0	0	0	0	0
3/29/2024 14:23	44302	BEAV_T2	463	513	50	0.78	0.9	0.12	0.33	0.28	0	0	0	0	0	0
3/29/2024 14:23	57403	SPAN_T1	28	160	132	0.44	0.28	-0.16	0	0	0	0	0	0	0	0
3/29/2024 14:23	56504	ROCK_T2	4	10	6	0.45	0.61	0.16	0	0	0	0	0	0	0	0
3/29/2024 14:23	60801	BUCK_T1	5	23	18	0.4	0.27	-0.13	-0.17	-0.16	0	0	0	0	0	0
3/29/2024 14:23	56501	ROCK_T2	38	102	64	0.56	0.32	-0.24	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 14:23	59102	WALK_T2	154	219	65	0.8	0.72	-0.08	0	0	0	0	0	0	0	0
3/29/2024 14:23	60803	BUCK_T1	6	14	8	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/29/2024 14:23	15001	BLMO_T1	6	5	-1	0.25	0.26	0.01	0	0	0	0	0	0	0	0
3/29/2024 14:23	58401	MORO_T1	5	9	4	0.54	0.41	-0.13	-1.22	-1.24	1	1	0	600	600	0
3/29/2024 14:23	58402	MORO_T1	1	2	1	0.1	0.15	0.05	-0.21	-0.19	2	2	0	1500	1500	0
3/29/2024 14:23	59101	WALK_T2	7	13	6	0.5	0.41	-0.09	2.31	2.04	0	0	0	0	0	0
3/29/2024 14:23	57401	SPAN_T1	7	6	-1	0.56	0.83	0.27	-0.54	-0.34	1	1	0	600	600	0
3/29/2024 14:23	56503	ROCK_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
3/29/2024 14:23	44301	BEAV_T2	17	18	1	0.61	0.69	0.08	0	0	0	0	0	0	0	0
3/29/2024 14:24	67002	STHI_T2	271	324	53	0.25	0.27	0.02	1.24	1.3	0	0	0	0	0	0
3/29/2024 14:24	67001	STHI_T2	447	520	73	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/29/2024 14:24	45301	WBER_T2	234	279	45	0.32	0.32	0	0	0	0	0	0	0	0	0
3/29/2024 14:24	45303	WBER_T2	144	180	36	0.31	0.31	0	-0.27	-0.27	0	0	0	0	0	0
3/29/2024 14:24	45302	WBER_T2	23	35	12	0.25	0.28	0.03	0	0	0	0	0	0	0	0
3/29/2024 14:25	45301	WBER_T2	234	279	45	0.32	0.32	0	0	0	0	0	0	0	0	0
3/29/2024 14:25	63802	HEMP_T1	7	30	23	0.29	0.25	-0.04	0.3	0.35	0	0	0	0	0	0
3/29/2024 14:25	63803	HEMP_T1	10	43	33	0.42	0.31	-0.11	0	0	0	0	0	0	0	0
3/29/2024 14:25	46203	DANV_T2	9	15	6	0.63	0.46	-0.17	0	0	0	0	0	0	0	0
3/29/2024 14:25	56503	ROCK_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
3/29/2024 14:25	63801	HEMP_T1	10	22	12	0.58	0.46	-0.12	0	0	0	0	0	0	0	0
3/29/2024 14:25	56501	ROCK_T2	38	102	64	0.56	0.32	-0.24	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 14:25	44302	BEAV_T2	463	513	50	0.78	0.9	0.12	0.33	0.28	0	0	0	0	0	0
3/29/2024 14:25	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 14:25	63804	HEMP_T1	4	8	4	1.85	1.09	-0.76	0	0	0	0	0	0	0	0
3/29/2024 14:25	44301	BEAV_T2	17	18	1	0.61	0.69	0.08	0	0	0	0	0	0	0	0
3/29/2024 14:25	57403	SPAN_T1	28	160	132	0.44	0.28	-0.16	0	0	0	0	0	0	0	0
3/29/2024 14:25	57401	SPAN_T1	7	6	-1	0.56	0.83	0.27	-1.08	-0.69	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/29/2024 14:25	45303	WBER_T2	144	180	36	0.31	0.31	0	-0.27	-0.27	0	0	0	0	0	0
3/29/2024 14:25	46206	DANV_T2	0	0	0	0	0	0	3.13	3.07	1	1	0	1200	1200	0
3/29/2024 14:25	45302	WBER_T2	23	35	12	0.25	0.28	0.03	0	0	0	0	0	0	0	0
3/29/2024 14:25	15001	BLMO_T1	6	5	-1	0.25	0.26	0.01	0	0	0	0	0	0	0	0
3/29/2024 14:25	56504	ROCK_T2	4	10	6	0.45	0.61	0.16	0	0	0	0	0	0	0	0
3/29/2024 14:26	67002	STHI_T2	271	324	53	0.25	0.27	0.02	1.24	1.3	0	0	0	0	0	0
3/29/2024 14:26	67001	STHI_T2	447	520	73	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/29/2024 14:26	57401	SPAN_T1	7	6	-1	0.56	0.83	0.27	-0.54	-0.34	1	1	0	600	600	0
3/29/2024 14:26	57403	SPAN_T1	28	160	132	0.44	0.28	-0.16	0	0	0	0	0	0	0	0
3/29/2024 14:27	54501	ENOL_T2	7	6	-1	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
3/29/2024 14:27	20401	ASHF_T2	1	2	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
3/29/2024 14:27	60803	BUCK_T1	6	14	8	0.15	0.2	0.05	-0.54	-0.53	1	1	0	600	600	0
3/29/2024 14:27	20403	ASHF_T2	4	8	4	0.93	0.7	-0.23	0.01	-0.01	0	0	0	0	0	0
3/29/2024 14:27	54504	ENOL_T2	3	3	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
3/29/2024 14:27	60801	BUCK_T1	5	23	18	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
3/29/2024 14:27	57401	SPAN_T1	7	6	-1	0.56	0.83	0.27	0	0	0	0	0	0	0	0
3/29/2024 14:27	54502	ENOL_T2	7	7	0	0.34	0.46	0.12	-1.16	-1.17	1	1	0	600	600	0
3/29/2024 14:27	58803	COCO_T1	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
3/29/2024 14:27	28403	HART_T2	0	0	0	0	0	0	-1.01	-0.99	1	1	0	900	900	0
3/29/2024 14:27	46203	DANV_T2	9	15	6	0.63	0.46	-0.17	0.11	0.16	0	0	0	0	0	0
3/29/2024 14:27	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 14:27	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 14:27	54505	ENOL_T2	4	4	0	0.8	0.93	0.13	0	0	0	0	0	0	0	0
3/29/2024 14:27	57403	SPAN_T1	28	160	132	0.44	0.28	-0.16	0.02	0.02	0	0	0	0	0	0
3/29/2024 14:27	54503	ENOL_T2	2	5	3	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
3/29/2024 14:28	56504	ROCK_T2	4	10	6	0.45	0.61	0.16	0	0	0	0	0	0	0	0
3/29/2024 14:28	58402	MORO_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/29/2024 14:28	57403	SPAN_T1	28	160	132	0.44	0.28	-0.16	0.02	0.02	0	0	0	0	0	0
3/29/2024 14:28	56503	ROCK_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
3/29/2024 14:28	57401	SPAN_T1	7	6	-1	0.56	0.83	0.27	0	0	0	0	0	0	0	0
3/29/2024 14:28	60801	BUCK_T1	5	23	18	0.4	0.27	-0.13	-0.17	-0.16	0	0	0	0	0	0
3/29/2024 14:28	58401	MORO_T1	5	9	4	0.54	0.41	-0.13	-1.22	-1.24	1	1	0	600	600	0
3/29/2024 14:28	60803	BUCK_T1	6	14	8	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/29/2024 14:28	56501	ROCK_T2	38	102	64	0.56	0.32	-0.24	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 14:29	64305	LINC_T1	2	3	1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
3/29/2024 14:29	64303	LINC_T1	1	3	2	0.6	0.73	0.13	0	0	0	0	0	0	0	0
3/29/2024 14:29	55105	WERT_T1	2	5	3	0.35	0.4	0.05	-0.72	-0.69	0	0	0	0	0	0
3/29/2024 14:29	64301	LINC_T1	0	0	0	0	0	0	0.25	0.28	0	0	0	0	0	0
3/29/2024 14:30	46203	DANV_T2	8	14	6	0.46	0.41	-0.05	0	0	0	0	0	0	0	0
3/29/2024 14:30	46206	DANV_T2	0	0	0	0	0	0	3.13	3.07	1	1	0	1200	1200	0
3/29/2024 14:30	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 14:30	58803	COCO_T1	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
3/29/2024 14:31	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 14:31	46203	DANV_T2	8	14	6	0.46	0.41	-0.05	0.11	0.16	0	0	0	0	0	0
3/29/2024 14:31	64305	LINC_T1	3	4	1	0.43	0.4	-0.03	-0.61	-0.53	0	0	0	0	0	0
3/29/2024 14:31	64303	LINC_T1	2	3	1	0.55	0.8	0.25	0	0	0	0	0	0	0	0
3/29/2024 14:32	64204	KINZ_T1	3	4	1	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/29/2024 14:32	64203	KINZ_T1	1	2	1	1	0.6	-0.4	0.84	0.77	1	1	0	600	600	0
3/29/2024 14:32	58402	MORO_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/29/2024 14:32	64201	KINZ_T1	8	10	2	0.24	0.34	0.1	0	0	0	0	0	0	0	0
3/29/2024 14:32	64202	KINZ_T1	10	17	7	0.45	0.33	-0.12	0.59	0.58	0	0	0	0	0	0
3/29/2024 14:32	58401	MORO_T1	8	8	0	0.38	0.41	0.03	-1.22	-1.24	1	1	0	600	600	0
3/29/2024 14:33	40601	PIGR_T1	219	211	-8	0.49	0.37	-0.12	0	0	0	0	0	0	0	0
3/29/2024 14:33	60801	BUCK_T1	16	24	8	0.28	0.28	0	-0.17	-0.16	0	0	0	0	0	0
3/29/2024 14:33	40602	PIGR_T1	3	2	-1	0.47	0.25	-0.22	0	0	0	0	0	0	0	0
3/29/2024 14:33	43201	MVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 14:33	43202	MVIL_T2	90	98	8	0.69	0.92	0.23	-0.65	-0.66	0	0	0	0	0	0
3/29/2024 14:33	40603	PIGR_T1	2	3	1	0.85	0.73	-0.12	0.33	0.33	0	0	0	0	0	0
3/29/2024 14:33	64801	MONE_T2	241	273	32	0.38	0.44	0.06	-0.37	-0.35	0	0	0	0	0	0
3/29/2024 14:33	41901	REED_T1	9	10	1	0.72	0.64	-0.08	0	0	0	0	0	0	0	0
3/29/2024 14:33	64305	LINC_T1	3	4	1	0.43	0.4	-0.03	-0.61	-0.53	0	0	0	0	0	0
3/29/2024 14:33	64802	MONE_T2	142	191	49	0.32	0.31	-0.01	0.54	0.55	0	0	0	0	0	0
3/29/2024 14:33	64303	LINC_T1	2	3	1	0.55	0.8	0.25	0	0	0	0	0	0	0	0
3/29/2024 14:33	60803	BUCK_T1	10	16	6	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/29/2024 14:33	58402	MORO_T1	2	0	-2	0.15	0	-0.15	-0.42	-0.38	4	4	0	3000	3000	0
3/29/2024 14:33	58401	MORO_T1	8	8	0	0.38	0.41	0.03	0	0	0	0	0	0	0	0
3/29/2024 14:33	41902	REED_T1	4	4	0	0.35	0.78	0.43	1.1	1.17	0	0	0	0	0	0
3/29/2024 14:34	58803	COCO_T1	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
3/29/2024 14:34	40602	PIGR_T1	3	2	-1	0.47	0.25	-0.22	0	0	0	0	0	0	0	0
3/29/2024 14:34	59402	RFLD_T2	10	12	2	0.52	0.53	0.01	-0.68	-0.74	0	0	0	0	0	0
3/29/2024 14:34	58402	MORO_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/29/2024 14:34	41902	REED_T1	4	4	0	0.35	0.78	0.43	1.1	1.17	0	0	0	0	0	0
3/29/2024 14:34	46301	ROHR_T1	70	111	41	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/29/2024 14:34	40601	PIGR_T1	219	211	-8	0.49	0.37	-0.12	0	0	0	0	0	0	0	0
3/29/2024 14:34	46302	ROHR_T1	10	9	-1	1.53	1.36	-0.17	0.15	0.16	0	0	0	0	0	0
3/29/2024 14:34	41901	REED_T1	9	10	1	0.72	0.64	-0.08	0	0	0	0	0	0	0	0
3/29/2024 14:34	58401	MORO_T1	8	8	0	0.38	0.41	0.03	-1.22	-1.24	1	1	0	600	600	0
3/29/2024 14:34	40603	PIGR_T1	2	3	1	0.85	0.73	-0.12	0.33	0.33	0	0	0	0	0	0
3/29/2024 14:35	59402	RFLD_T2	10	12	2	0.52	0.53	0.01	-0.34	-0.37	0	0	0	0	0	0
3/29/2024 14:35	17002	RIRO_T2	98	127	29	0.17	0.18	0.01	0.49	0.49	0	0	0	0	0	0
3/29/2024 14:36	67503	WEWI_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/29/2024 14:36	67001	STHI_T2	448	555	107	0.28	0.3	0.02	0	0	0	0	0	0	0	0
3/29/2024 14:36	67502	WEWI_T2	46	91	45	0.34	0.26	-0.08	-0.55	-0.39	0	0	0	0	0	0
3/29/2024 14:36	67002	STHI_T2	302	341	39	0.27	0.27	0	1.24	1.3	0	0	0	0	0	0
3/29/2024 14:37	63803	HEMP_T1	26	62	36	0.37	0.29	-0.08	0	0	0	0	0	0	0	0
3/29/2024 14:37	45303	WBER_T2	136	209	73	0.32	0.34	0.02	-0.27	-0.27	0	0	0	0	0	0
3/29/2024 14:37	57401	SPAN_T1	6	3	-3	0.83	1	0.17	0	0	0	0	0	0	0	0
3/29/2024 14:37	59202	THOM_T1	1201	1225	24	1.26	1.37	0.11	0	0	0	0	0	0	0	0
3/29/2024 14:37	67002	STHI_T2	302	341	39	0.27	0.27	0	1.24	1.3	0	0	0	0	0	0
3/29/2024 14:37	59402	RFLD_T2	10	12	2	0.52	0.53	0.01	-0.34	-0.37	0	0	0	0	0	0
3/29/2024 14:37	57403	SPAN_T1	158	121	-37	0.27	0.28	0.01	0.02	0.02	0	0	0	0	0	0
3/29/2024 14:37	45301	WBER_T2	234	271	37	0.31	0.33	0.02	0	0	0	0	0	0	0	0
3/29/2024 14:37	63804	HEMP_T1	8	9	1	1.04	0.99	-0.05	0	0	0	0	0	0	0	0
3/29/2024 14:37	63802	HEMP_T1	21	69	48	0.21	0.19	-0.02	0.15	0.17	0	0	0	0	0	0
3/29/2024 14:37	45302	WBER_T2	29	46	17	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
3/29/2024 14:37	45402	WBLO_T2	31	46	15	0.24	0.31	0.07	-0.81	-0.81	0	0	0	0	0	0
3/29/2024 14:37	59201	THOM_T1	137	149	12	1.02	1.18	0.16	0	0	0	0	0	0	0	0
3/29/2024 14:37	67001	STHI_T2	448	555	107	0.28	0.3	0.02	0	0	0	0	0	0	0	0
3/29/2024 14:37	63801	HEMP_T1	16	37	21	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
3/29/2024 14:38	64305	LINC_T1	3	4	1	0.43	0.4	-0.03	-0.53	-0.61	0	0	0	0	0	0
3/29/2024 14:38	44301	BEAV_T2	17	17	0	0.64	0.74	0.1	0	0	0	0	0	0	0	0
3/29/2024 14:38	57401	SPAN_T1	6	3	-3	0.83	1	0.17	0	0	0	0	0	0	0	0
3/29/2024 14:38	60701	BREC_T1	4	3	-1	0.7	0.8	0.1	0.13	0.09	1	0	-1	600	0	-600
3/29/2024 14:38	57403	SPAN_T1	158	121	-37	0.27	0.28	0.01	0.02	0.02	0	0	0	0	0	0
3/29/2024 14:38	16302	ALPA_T2	1	2	1	0.1	0.2	0.1	0.6	0.64	0	0	0	0	0	0
3/29/2024 14:38	64303	LINC_T1	2	3	1	0.55	0.8	0.25	0	0	0	0	0	0	0	0
3/29/2024 14:38	44302	BEAV_T2	498	522	24	0.86	0.93	0.07	0.28	0.29	0	0	0	0	0	0
3/29/2024 14:39	60803	BUCK_T1	10	16	6	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/29/2024 14:39	44302	BEAV_T2	498	522	24	0.86	0.93	0.07	0.28	0.29	0	0	0	0	0	0
3/29/2024 14:39	59102	WALK_T2	167	272	105	0.76	0.68	-0.08	0	0	0	0	0	0	0	0
3/29/2024 14:39	59101	WALK_T2	6	22	16	0.52	0.41	-0.11	2.04	1.99	0	0	0	0	0	0
3/29/2024 14:39	67001	STHI_T2	448	555	107	0.28	0.3	0.02	0	0	0	0	0	0	0	0
3/29/2024 14:39	67002	STHI_T2	302	341	39	0.27	0.27	0	0.65	0.63	0	0	0	0	0	0
3/29/2024 14:39	44301	BEAV_T2	17	17	0	0.64	0.74	0.1	0	0	0	0	0	0	0	0
3/29/2024 14:39	60801	BUCK_T1	16	24	8	0.28	0.28	0	-0.16	-0.18	0	0	0	0	0	0
3/29/2024 14:39	64802	MONE_T2	142	191	49	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
3/29/2024 14:39	15001	BLMO_T1	5	5	0	0.26	0.26	0	0	0	0	0	0	0	0	0
3/29/2024 14:39	64801	MONE_T2	241	273	32	0.38	0.44	0.06	-0.35	-0.36	0	0	0	0	0	0
3/29/2024 14:39	66703	STRA_T1	47	18	-29	0.27	0.32	0.05	-0.17	-0.17	0	0	0	0	0	0
3/29/2024 14:39	66702	STRA_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
3/29/2024 14:39	66701	STRA_T1	1	3	2	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
3/29/2024 14:40	60803	BUCK_T1	10	16	6	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/29/2024 14:40	60801	BUCK_T1	16	24	8	0.28	0.28	0	-0.16	-0.18	0	0	0	0	0	0
3/29/2024 14:40	45302	WBER_T2	29	46	17	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
3/29/2024 14:40	45301	WBER_T2	234	271	37	0.31	0.33	0.02	0	0	0	0	0	0	0	0
3/29/2024 14:40	60701	BREC_T1	4	3	-1	0.7	0.8	0.1	0.13	0.09	0	0	0	0	0	0
3/29/2024 14:40	67001	STHI_T2	448	555	107	0.28	0.3	0.02	0	0	0	0	0	0	0	0
3/29/2024 14:40	45303	WBER_T2	136	209	73	0.32	0.34	0.02	-0.54	-0.57	0	0	0	0	0	0
3/29/2024 14:40	67002	STHI_T2	302	341	39	0.27	0.27	0	0.65	0.63	0	0	0	0	0	0
3/29/2024 14:41	15001	BLMO_T1	5	5	0	0.26	0.26	0	0	0	0	0	0	0	0	0
3/29/2024 14:41	60701	BREC_T1	4	3	-1	0.7	0.8	0.1	0.25	0.18	0	0	0	0	0	0
3/29/2024 14:41	67503	WEWI_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/29/2024 14:41	67502	WEWI_T2	46	91	45	0.34	0.26	-0.08	-0.39	-0.52	0	0	0	0	0	0
3/29/2024 14:42	67503	WEWI_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/29/2024 14:42	58803	COCO_T1	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
3/29/2024 14:42	46203	DANV_T2	8	14	6	0.46	0.41	-0.05	0.16	0.09	0	0	0	0	0	0
3/29/2024 14:42	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 14:42	67502	WEWI_T2	46	91	45	0.34	0.26	-0.08	-0.39	-0.52	0	0	0	0	0	0
3/29/2024 14:43	60803	BUCK_T1	10	16	6	0.2	0.23	0.03	-0.53	-0.53	1	1	0	600	600	0
3/29/2024 14:43	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 14:43	46203	DANV_T2	8	14	6	0.46	0.41	-0.05	0.16	0.09	0	0	0	0	0	0
3/29/2024 14:43	46803	HEPB_T2	2	8	6	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/29/2024 14:43	28403	HART_T2	0	0	0	0	0	0	-0.99	-1.01	1	1	0	900	900	0
3/29/2024 14:43	46801	HEPB_T2	2	6	4	0.9	0.47	-0.43	0.59	0.62	0	0	0	0	0	0
3/29/2024 14:43	60801	BUCK_T1	16	24	8	0.28	0.28	0	-0.16	-0.18	0	0	0	0	0	0
3/29/2024 14:44	64303	LINC_T1	2	3	1	0.55	0.8	0.25	0	0	0	0	0	0	0	0
3/29/2024 14:44	64305	LINC_T1	3	4	1	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
3/29/2024 14:44	64301	LINC_T1	0	0	0	0	0	0	0.28	0.22	0	0	0	0	0	0
3/29/2024 14:45	47101	MARL_T1	0	0	0	0	0	0	-0.31	-0.18	0	0	0	0	0	0
3/29/2024 14:45	58803	COCO_T1	1	1	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
3/29/2024 14:45	12701	MACU_T1	0	0	0	0	0	0	0.01	0.06	0	0	0	0	0	0
3/29/2024 14:45	47104	MARL_T1	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
3/29/2024 14:47	54503	ENOL_T2	4	4	0	0.38	0.25	-0.13	-1.19	-1.32	1	1	0	600	600	0
3/29/2024 14:47	42903	MIDD_T2	182	184	2	0.71	0.77	0.06	0	0	0	0	0	0	0	0
3/29/2024 14:47	64203	KINZ_T1	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
3/29/2024 14:47	54505	ENOL_T2	3	4	1	1.03	0.93	-0.1	0	0	0	0	0	0	0	0
3/29/2024 14:47	42902	MIDD_T2	293	323	30	0.78	0.79	0.01	-0.59	-0.55	0	0	0	0	0	0
3/29/2024 14:47	47104	MARL_T1	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
3/29/2024 14:47	42901	MIDD_T2	578	611	33	0.7	0.73	0.03	0	0	0	0	0	0	0	0
3/29/2024 14:47	54502	ENOL_T2	5	16	11	0.48	0.21	-0.27	0	0	0	0	0	0	0	0
3/29/2024 14:47	54504	ENOL_T2	3	3	0	0.9	0.93	0.03	0	0	0	0	0	0	0	0
3/29/2024 14:47	64204	KINZ_T1	3	8	5	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
3/29/2024 14:47	64201	KINZ_T1	9	12	3	0.22	0.4	0.18	0.68	0.68	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/29/2024 14:47	47101	MARL_T1	0	0	0	0	0	0	-0.31	-0.18	0	0	0	0	0	0
3/29/2024 14:47	64202	KINZ_T1	13	23	10	0.28	0.32	0.04	0.58	0.59	0	0	0	0	0	0
3/29/2024 14:47	54501	ENOL_T2	6	7	1	0.53	0.57	0.04	0	0	0	0	0	0	0	0
3/29/2024 14:48	41902	REED_T1	4	4	0	0.68	0.63	-0.05	1.17	1.13	0	0	0	0	0	0
3/29/2024 14:48	64303	LINC_T1	3	3	0	0.7	0.77	0.07	0	0	0	0	0	0	0	0
3/29/2024 14:48	64201	KINZ_T1	9	12	3	0.22	0.4	0.18	0	0	0	0	0	0	0	0
3/29/2024 14:48	64204	KINZ_T1	3	8	5	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
3/29/2024 14:48	41901	REED_T1	10	9	-1	0.63	0.63	0	0	0	0	0	0	0	0	0
3/29/2024 14:48	64305	LINC_T1	3	4	1	0.47	0.38	-0.09	-0.53	-0.61	0	0	0	0	0	0
3/29/2024 14:48	64203	KINZ_T1	2	2	0	0.6	0.55	-0.05	0.77	0.9	1	1	0	600	600	0
3/29/2024 14:48	64202	KINZ_T1	13	23	10	0.28	0.32	0.04	0	0	0	0	0	0	0	0
3/29/2024 14:49	64802	MONE_T2	149	195	46	0.28	0.3	0.02	0.27	0.23	0	0	0	0	0	0
3/29/2024 14:49	46301	ROHR_T1	61	114	53	0.26	0.28	0.02	0	0	0	0	0	0	0	0
3/29/2024 14:49	43202	MVIL_T2	88	100	12	0.66	0.95	0.29	-0.66	-0.69	0	0	0	0	0	0
3/29/2024 14:49	43201	MVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/29/2024 14:49	46302	ROHR_T1	7	10	3	1.53	1.31	-0.22	0.16	0.19	0	0	0	0	0	0
3/29/2024 14:49	60801	BUCK_T1	23	19	-4	0.26	0.29	0.03	-0.16	-0.18	0	0	0	0	0	0
3/29/2024 14:49	64801	MONE_T2	231	296	65	0.47	0.42	-0.05	0	0	0	0	0	0	0	0
3/29/2024 14:49	60803	BUCK_T1	13	13	0	0.19	0.23	0.04	0	0	0	0	0	0	0	0
3/29/2024 14:50	41902	REED_T1	4	4	0	0.68	0.63	-0.05	1.17	1.13	0	0	0	0	0	0
3/29/2024 14:50	41901	REED_T1	10	9	-1	0.63	0.63	0	0	0	0	0	0	0	0	0
3/29/2024 14:50	54601	SUMM_T2	14	18	4	1.1	1.01	-0.09	-3.65	-3.82	4	4	0	4200	4200	0
3/29/2024 14:50	54602	SUMM_T2	21	21	0	0.65	0.65	0	0	0	0	0	0	0	0	0
3/29/2024 14:50	54603	SUMM_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
3/29/2024 14:50	58803	COCO_T1	1	1	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
3/29/2024 14:51	54602	SUMM_T2	21	21	0	0.65	0.65	0	0	0	0	0	0	0	0	0
3/29/2024 14:51	54601	SUMM_T2	14	18	4	1.1	1.01	-0.09	-1.83	-1.91	2	2	0	2100	2100	0
3/29/2024 14:51	54603	SUMM_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
3/29/2024 14:52	44302	BEAV_T2	505	532	27	0.88	0.94	0.06	0.28	0.29	0	0	0	0	0	0
3/29/2024 14:52	44301	BEAV_T2	17	19	2	0.72	0.66	-0.06	0	0	0	0	0	0	0	0
3/29/2024 14:52	56503	ROCK_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
3/29/2024 14:52	56504	ROCK_T2	9	11	2	0.41	0.57	0.16	83.96	83.96	0	0	0	0	0	0
3/29/2024 14:52	56501	ROCK_T2	92	118	26	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
3/29/2024 14:53	56503	ROCK_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
3/29/2024 14:53	56501	ROCK_T2	92	118	26	0.33	0.27	-0.06	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 14:53	56504	ROCK_T2	9	11	2	0.41	0.57	0.16	0	0	0	0	0	0	0	0
3/29/2024 14:54	60803	BUCK_T1	13	13	0	0.19	0.23	0.04	0	0	0	0	0	0	0	0
3/29/2024 14:54	64305	LINC_T1	3	4	1	0.47	0.38	-0.09	-0.61	-0.61	0	0	0	0	0	0
3/29/2024 14:54	64303	LINC_T1	3	3	0	0.7	0.77	0.07	0	0	0	0	0	0	0	0
3/29/2024 14:54	60801	BUCK_T1	23	19	-4	0.26	0.29	0.03	-0.18	-0.2	0	0	0	0	0	0
3/29/2024 14:55	15001	BLMO_T1	4	6	2	0.18	0.23	0.05	0	0	0	0	0	0	0	0
3/29/2024 14:55	56501	ROCK_T2	92	118	26	0.33	0.27	-0.06	-0.02	-0.02	0	0	0	0	0	0
3/29/2024 14:55	56503	ROCK_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
3/29/2024 14:55	53501	EVIL_T2	14	15	1	0.52	0.6	0.08	-0.71	-0.69	0	0	0	0	0	0
3/29/2024 14:55	56504	ROCK_T2	9	11	2	0.41	0.57	0.16	0	0	0	0	0	0	0	0
3/29/2024 14:56	56504	ROCK_T2	9	11	2	0.41	0.57	0.16	83.96	83.96	0	0	0	0	0	0
3/29/2024 14:56	56503	ROCK_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
3/29/2024 14:56	56501	ROCK_T2	92	118	26	0.33	0.27	-0.06	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 14:56	58803	COCO_T1	1	1	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
3/29/2024 14:57	15001	BLMO_T1	4	6	2	0.18	0.23	0.05	0	0	0	0	0	0	0	0
3/29/2024 14:57	64402	LAND_T2	11	11	0	0.45	0.43	-0.02	-0.4	-0.37	1	1	0	600	600	0
3/29/2024 14:57	64404	LAND_T2	8	10	2	0.4	0.64	0.24	0	0	0	0	0	0	0	0
3/29/2024 14:57	56503	ROCK_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
3/29/2024 14:57	10805	CHHI_T2	2	4	2	3.8	1.9	-1.9	-2.08	-2.08	0	0	0	0	0	0
3/29/2024 14:57	56501	ROCK_T2	92	118	26	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
3/29/2024 14:57	53501	EVIL_T2	14	15	1	0.52	0.6	0.08	-0.71	-0.69	0	0	0	0	0	0
3/29/2024 14:57	56504	ROCK_T2	9	11	2	0.41	0.57	0.16	83.96	83.96	0	0	0	0	0	0
3/29/2024 14:58	58803	COCO_T1	1	1	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
3/29/2024 14:58	40902	JESH_T1	2	3	1	0.3	0.57	0.27	-0.51	-0.5	0	0	0	0	0	0
3/29/2024 14:58	40903	JESH_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/29/2024 14:58	40901	JESH_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
3/29/2024 14:59	40902	JESH_T1	2	3	1	0.3	0.57	0.27	-0.51	-0.5	0	0	0	0	0	0
3/29/2024 14:59	60801	BUCK_T1	23	19	-4	0.26	0.29	0.03	-0.18	-0.2	0	0	0	0	0	0
3/29/2024 14:59	64303	LINC_T1	3	3	0	0.7	0.77	0.07	0	0	0	0	0	0	0	0
3/29/2024 14:59	60803	BUCK_T1	13	13	0	0.19	0.23	0.04	0	0	0	0	0	0	0	0
3/29/2024 14:59	40903	JESH_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/29/2024 14:59	64305	LINC_T1	3	4	1	0.47	0.38	-0.09	-0.61	-0.61	0	0	0	0	0	0
3/29/2024 14:59	40901	JESH_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
3/29/2024 15:00	56501	ROCK_T2	94	101	7	0.3	0.28	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 15:00	56504	ROCK_T2	11	9	-2	0.57	0.56	-0.01	83.96	83.96	0	0	0	0	0	0
3/29/2024 15:00	25402	LAHA_T2	0	0	0	0	0	0	-0.67	-0.29	0	0	0	0	0	0
3/29/2024 15:00	25404	LAHA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 15:00	56503	ROCK_T2	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
3/29/2024 15:01	58803	COCO_T1	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
3/29/2024 15:03	40902	JESH_T1	3	7	4	0.5	0.46	-0.04	-0.51	-0.5	0	0	0	0	0	0
3/29/2024 15:03	40901	JESH_T1	1	3	2	0.4	0.4	0	0	0	0	0	0	0	0	0
3/29/2024 15:03	40903	JESH_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/29/2024 15:03	64305	LINC_T1	4	4	0	0.38	0.33	-0.05	-0.61	-0.61	0	0	0	0	0	0
3/29/2024 15:03	64303	LINC_T1	3	3	0	0.77	0.5	-0.27	0	0	0	0	0	0	0	0
3/29/2024 15:04	42002	MNVL_T2	1	1	0	5.2	4.9	-0.3	0	0	0	0	0	0	0	0
3/29/2024 15:04	64303	LINC_T1	3	3	0	0.77	0.5	-0.27	0	0	0	0	0	0	0	0
3/29/2024 15:04	42001	MNVL_T2	3	6	3	0.33	0.27	-0.06	-0.07	-0.05	0	0	0	0	0	0
3/29/2024 15:04	64305	LINC_T1	4	4	0	0.38	0.33	-0.05	-0.61	-0.61	0	0	0	0	0	0
3/29/2024 15:05	65802	RTWN_T2	5	4	-1	0.9	1.15	0.25	-0.52	-0.52	0	0	0	0	0	0
3/29/2024 15:05	42001	MNVL_T2	3	6	3	0.33	0.27	-0.06	-0.07	-0.05	0	0	0	0	0	0
3/29/2024 15:05	42002	MNVL_T2	1	1	0	5.2	4.9	-0.3	0	0	0	0	0	0	0	0
3/29/2024 15:05	65803	RTWN_T2	3	6	3	0.57	0.37	-0.2	0	0	0	0	0	0	0	0
3/29/2024 15:05	64802	MONE_T2	180	174	-6	0.3	0.32	0.02	0.23	0.25	0	0	0	0	0	0
3/29/2024 15:05	64801	MONE_T2	252	301	49	0.42	0.42	0	-0.36	-0.38	0	0	0	0	0	0
3/29/2024 15:06	45601	WOOL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 15:06	58803	COCO_T1	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
3/29/2024 15:06	45602	WOOL_T1	7	8	1	0.51	0.51	0	0.39	0.47	0	0	0	0	0	0
3/29/2024 15:09	45602	WOOL_T1	7	8	1	0.51	0.51	0	0.47	0.43	0	0	0	0	0	0
3/29/2024 15:09	45601	WOOL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 15:10	56504	ROCK_T2	11	9	-2	0.57	0.56	-0.01	0	0	0	0	0	0	0	0
3/29/2024 15:10	58401	MORO_T1	6	9	3	0.45	0.37	-0.08	-1.22	-1.24	1	1	0	600	600	0
3/29/2024 15:10	56501	ROCK_T2	94	101	7	0.3	0.28	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 15:10	64801	MONE_T2	252	301	49	0.42	0.42	0	-0.38	-0.39	0	0	0	0	0	0
3/29/2024 15:10	64802	MONE_T2	180	174	-6	0.3	0.32	0.02	0	0	0	0	0	0	0	0
3/29/2024 15:10	56503	ROCK_T2	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
3/29/2024 15:11	54502	ENOL_T2	5	35	30	0.4	0.16	-0.24	0	0	0	0	0	0	0	0
3/29/2024 15:11	54504	ENOL_T2	3	3	0	0.83	0.97	0.14	0	0	0	0	0	0	0	0
3/29/2024 15:11	54503	ENOL_T2	4	5	1	0.23	0.34	0.11	-1.34	-1.28	1	1	0	600	600	0
3/29/2024 15:11	45601	WOOL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 15:11	54505	ENOL_T2	4	6	2	0.88	0.68	-0.2	0	0	0	0	0	0	0	0
3/29/2024 15:11	54501	ENOL_T2	7	8	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
3/29/2024 15:11	45602	WOOL_T1	7	8	1	0.51	0.51	0	0.47	0.43	0	0	0	0	0	0
3/29/2024 15:14	54502	ENOL_T2	5	35	30	0.4	0.16	-0.24	-2.3	-2.32	2	2	0	1200	1200	0
3/29/2024 15:14	54505	ENOL_T2	4	6	2	0.88	0.68	-0.2	0	0	0	0	0	0	0	0
3/29/2024 15:14	40902	JESH_T1	3	7	4	0.5	0.46	-0.04	-0.5	-0.79	0	0	0	0	0	0
3/29/2024 15:14	54503	ENOL_T2	4	5	1	0.23	0.34	0.11	0	0	0	0	0	0	0	0
3/29/2024 15:14	54504	ENOL_T2	3	3	0	0.83	0.97	0.14	0	0	0	0	0	0	0	0
3/29/2024 15:14	54501	ENOL_T2	7	8	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
3/29/2024 15:14	40901	JESH_T1	1	3	2	0.4	0.4	0	0	0	0	0	0	0	0	0
3/29/2024 15:14	40903	JESH_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/29/2024 15:15	45003	LIME_2	1	1	0	3.9	3.8	-0.1	0	0	0	0	0	0	0	0
3/29/2024 15:15	45001	LIME_2	2	3	1	0.65	0.17	-0.48	0	0	0	0	0	0	0	0
3/29/2024 15:15	64305	LINC_T1	3	4	1	0.4	0.2	-0.2	-0.61	-0.53	0	0	0	0	0	0
3/29/2024 15:15	56501	ROCK_T2	96	80	-16	0.28	0.33	0.05	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 15:15	64303	LINC_T1	3	2	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
3/29/2024 15:15	56504	ROCK_T2	9	7	-2	0.56	0.57	0.01	0	0	0	0	0	0	0	0
3/29/2024 15:15	64802	MONE_T2	147	224	77	0.3	0.3	0	0	0	0	0	0	0	0	0
3/29/2024 15:15	45002	LIME_2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/29/2024 15:15	64801	MONE_T2	274	284	10	0.4	0.43	0.03	-0.38	-0.39	0	0	0	0	0	0
3/29/2024 15:15	56503	ROCK_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
3/29/2024 15:19	40902	JESH_T1	2	11	9	0.65	0.39	-0.26	-0.5	-0.79	0	0	0	0	0	0
3/29/2024 15:19	40903	JESH_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/29/2024 15:19	40901	JESH_T1	2	4	2	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
3/29/2024 15:20	64303	LINC_T1	3	2	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
3/29/2024 15:20	64305	LINC_T1	3	4	1	0.4	0.2	-0.2	-0.61	-0.53	0	0	0	0	0	0
3/29/2024 15:21	64802	MONE_T2	147	224	77	0.3	0.3	0	0	0	0	0	0	0	0	0
3/29/2024 15:21	64801	MONE_T2	274	284	10	0.4	0.43	0.03	-0.38	-0.39	0	0	0	0	0	0
3/29/2024 15:21	66701	STRA_T1	3	3	0	0.37	0.57	0.2	0	0	0	0	0	0	0	0
3/29/2024 15:21	66702	STRA_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/29/2024 15:21	66703	STRA_T1	7	14	7	0.32	0.29	-0.03	-0.14	-0.19	0	0	0	0	0	0
3/29/2024 15:22	14401	SSLA_T1	7	6	-1	0.59	0.75	0.16	0	0	0	0	0	0	0	0
3/29/2024 15:22	14402	SSLA_T1	14	19	5	0.26	0.27	0.01	0	0	0	0	0	0	0	0
3/29/2024 15:22	14403	SSLA_T1	2	1	-1	0.5	0.9	0.4	0.57	0.57	0	0	0	0	0	0
3/29/2024 15:22	14404	SSLA_T1	9	16	7	0.96	0.71	-0.25	0	0	0	0	0	0	0	0
3/29/2024 15:25	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/29/2024 15:25	20401	ASHF_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
3/29/2024 15:25	42201	SHEN_T2	2	2	0	1	0.4	-0.6	-0.03	-0.25	1	1	0	600	600	0
3/29/2024 15:25	20403	ASHF_T2	6	4	-2	0.67	0.75	0.08	-0.05	-0.05	0	0	0	0	0	0
3/29/2024 15:26	56501	ROCK_T2	96	80	-16	0.28	0.33	0.05	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 15:26	56504	ROCK_T2	9	7	-2	0.56	0.57	0.01	0	0	0	0	0	0	0	0
3/29/2024 15:26	56503	ROCK_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
3/29/2024 15:29	40903	JESH_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/29/2024 15:29	40901	JESH_T1	2	4	2	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
3/29/2024 15:29	40902	JESH_T1	2	11	9	0.65	0.39	-0.26	-0.79	-0.79	0	0	0	0	0	0
3/29/2024 15:30	40903	JESH_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/29/2024 15:30	40901	JESH_T1	3	4	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/29/2024 15:30	40902	JESH_T1	7	12	5	0.46	0.33	-0.13	-0.79	-0.79	0	0	0	0	0	0
3/29/2024 15:31	45002	LIME_2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/29/2024 15:31	56501	ROCK_T2	70	103	33	0.31	0.28	-0.03	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 15:31	64801	MONE_T2	266	283	17	0.42	0.41	-0.01	-0.39	-0.36	0	0	0	0	0	0
3/29/2024 15:31	64204	KINZ_T1	27	59	32	0.26	0.66	0.4	0	0	0	0	0	0	0	0
3/29/2024 15:31	42001	MNVL_T2	6	5	-1	0.27	0.26	-0.01	-0.02	-0.06	0	0	0	0	0	0
3/29/2024 15:31	45001	LIME_2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/29/2024 15:31	64305	LINC_T1	4	3	-1	0.2	0.1	-0.1	-0.53	-0.51	0	0	0	0	0	0
3/29/2024 15:31	64802	MONE_T2	154	268	114	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
3/29/2024 15:31	56503	ROCK_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/29/2024 15:31	42002	MNVL_T2	1	1	0	5	4.7	-0.3	0	0	0	0	0	0	0	0
3/29/2024 15:31	45003	LIME_2	1	1	0	3.8	3.7	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/29/2024 15:31	64202	KINZ_T1	36	82	46	0.28	0.6	0.32	0	0	0	0	0	0	0	0
3/29/2024 15:31	56504	ROCK_T2	7	7	0	0.56	0.54	-0.02	0	0	0	0	0	0	0	0
3/29/2024 15:31	64203	KINZ_T1	3	550	547	0.43	0.34	-0.09	0.72	1.13	1	0	-1	600	0	-600
3/29/2024 15:31	64201	KINZ_T1	16	83	67	0.38	0.45	0.07	0	0	0	0	0	0	0	0
3/29/2024 15:31	64303	LINC_T1	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/29/2024 15:33	64202	KINZ_T1	36	82	46	0.28	0.6	0.32	0	0	0	0	0	0	0	0
3/29/2024 15:33	64201	KINZ_T1	16	83	67	0.38	0.45	0.07	0	0	0	0	0	0	0	0
3/29/2024 15:33	64203	KINZ_T1	3	550	547	0.43	0.34	-0.09	0.72	1.13	1	0	-1	600	0	-600
3/29/2024 15:33	64204	KINZ_T1	27	59	32	0.26	0.66	0.4	0	0	0	0	0	0	0	0
3/29/2024 15:34	64203	KINZ_T1	3	550	547	0.43	0.34	-0.09	0.72	1.13	1	0	-1	600	0	-600
3/29/2024 15:34	64204	KINZ_T1	27	59	32	0.26	0.66	0.4	0	0	0	0	0	0	0	0
3/29/2024 15:34	64202	KINZ_T1	36	82	46	0.28	0.6	0.32	0	0	0	0	0	0	0	0
3/29/2024 15:34	64201	KINZ_T1	16	83	67	0.38	0.45	0.07	0	0	0	0	0	0	0	0
3/29/2024 15:35	54202	PENN_T2	222	295	73	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
3/29/2024 15:35	40903	JESH_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/29/2024 15:35	40901	JESH_T1	3	4	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/29/2024 15:35	54206	PENN_T2	128	85	-43	0.27	0.32	0.05	0	0	0	0	0	0	0	0
3/29/2024 15:35	59102	WALK_T2	176	197	21	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
3/29/2024 15:35	59101	WALK_T2	8	11	3	0.49	0.43	-0.06	1.22	1.22	0	0	0	0	0	0
3/29/2024 15:35	40902	JESH_T1	7	12	5	0.46	0.33	-0.13	-0.79	-0.79	0	0	0	0	0	0
3/29/2024 15:35	54204	PENN_T2	3	3	0	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
3/29/2024 15:36	54202	PENN_T2	222	295	73	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
3/29/2024 15:36	64305	LINC_T1	4	3	-1	0.2	0.1	-0.1	-0.53	-0.51	0	0	0	0	0	0
3/29/2024 15:36	64303	LINC_T1	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/29/2024 15:36	54206	PENN_T2	128	85	-43	0.27	0.32	0.05	0	0	0	0	0	0	0	0
3/29/2024 15:36	54204	PENN_T2	3	3	0	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
3/29/2024 15:36	64801	MONE_T2	266	283	17	0.42	0.41	-0.01	-0.39	-0.36	0	0	0	0	0	0
3/29/2024 15:36	64802	MONE_T2	154	268	114	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
3/29/2024 15:37	42204	SHEN_T2	0	0	0	0	0	0	-0.64	-0.68	1	1	0	1200	1200	0
3/29/2024 15:37	54602	SUMM_T2	21	19	-2	0.77	0.71	-0.06	0	0	0	0	0	0	0	0
3/29/2024 15:37	54601	SUMM_T2	18	14	-4	1.05	1.14	0.09	-3.81	-3.81	4	4	0	4200	4200	0
3/29/2024 15:37	54603	SUMM_T2	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
3/29/2024 15:37	42201	SHEN_T2	2	1	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/29/2024 15:40	28604	BLYT_T2	0	0	0	0	0	0	-1.54	-1.55	0	0	0	0	0	0
3/29/2024 15:42	47002	HUGH_T2	1	1	0	0.5	0.5	0	-0.75	-0.75	0	0	0	0	0	0
3/29/2024 15:42	56504	ROCK_T2	7	7	0	0.56	0.54	-0.02	0	0	0	0	0	0	0	0
3/29/2024 15:42	47001	HUGH_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/29/2024 15:42	56501	ROCK_T2	70	103	33	0.31	0.28	-0.03	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 15:42	28604	BLYT_T2	0	0	0	0	0	0	-1.54	-1.55	0	0	0	0	0	0
3/29/2024 15:42	56503	ROCK_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/29/2024 15:45	40903	JESH_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/29/2024 15:45	40901	JESH_T1	4	3	-1	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/29/2024 15:45	46504	LOHA_T1	28	25	-3	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/29/2024 15:45	46506	LOHA_T1	4	1	-3	0.28	1	0.72	-0.9	-0.94	0	0	0	0	0	0
3/29/2024 15:45	40902	JESH_T1	11	9	-2	0.35	0.37	0.02	-0.79	-0.83	0	0	0	0	0	0
3/29/2024 15:46	46506	LOHA_T1	4	1	-3	0.28	1	0.72	-0.45	-0.47	0	0	0	0	0	0
3/29/2024 15:46	46504	LOHA_T1	28	25	-3	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/29/2024 15:47	66302	MCGO_T2	9	5	-4	0.46	0.44	-0.02	-0.55	-0.8	0	0	0	0	0	0
3/29/2024 15:47	64801	MONE_T2	255	267	12	0.42	0.41	-0.01	-0.36	-0.36	0	0	0	0	0	0
3/29/2024 15:47	56501	ROCK_T2	60	181	121	0.35	0.26	-0.09	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 15:47	56503	ROCK_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/29/2024 15:47	64802	MONE_T2	214	251	37	0.29	0.33	0.04	0	0	0	0	0	0	0	0
3/29/2024 15:47	66303	MCGO_T2	7	6	-1	0.4	0.43	0.03	0	0	0	0	0	0	0	0
3/29/2024 15:47	56504	ROCK_T2	5	7	2	0.58	0.39	-0.19	0	0	0	0	0	0	0	0
3/29/2024 15:48	52503	PROG_T2	0	0	0	0	0	0	-0.62	-0.7	1	1	0	900	900	0
3/29/2024 15:48	52502	PROG_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/29/2024 15:48	58401	MORO_T1	6	4	-2	0.33	0.18	-0.15	-2.42	-2.53	2	2	0	1200	1200	0
3/29/2024 15:50	40903	JESH_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/29/2024 15:50	40901	JESH_T1	4	3	-1	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/29/2024 15:50	40902	JESH_T1	11	9	-2	0.35	0.37	0.02	-0.79	-0.83	0	0	0	0	0	0
3/29/2024 15:52	43102	SMIL_T2	10	10	0	0.68	0.85	0.17	0	0	0	0	0	0	0	0
3/29/2024 15:52	43105	SMIL_T2	17	17	0	0.54	0.47	-0.07	0	0	0	0	0	0	0	0
3/29/2024 15:52	64802	MONE_T2	214	251	37	0.29	0.33	0.04	0	0	0	0	0	0	0	0
3/29/2024 15:52	43101	SMIL_T2	7	6	-1	0.71	0.72	0.01	0	0	0	0	0	0	0	0
3/29/2024 15:52	43103	SMIL_T2	22	22	0	0.62	1.05	0.43	-0.87	-0.94	0	0	0	0	0	0
3/29/2024 15:52	64801	MONE_T2	255	267	12	0.42	0.41	-0.01	-0.36	-0.36	0	0	0	0	0	0
3/29/2024 15:52	43108	SMIL_T2	3	3	0	0.67	0.57	-0.1	0	0	0	0	0	0	0	0
3/29/2024 15:52	43104	SMIL_T2	3	4	1	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
3/29/2024 15:54	56802	BENV_T2	373	416	43	0.33	0.39	0.06	-1.36	-1.4	0	0	0	0	0	0
3/29/2024 15:55	62604	ENGL_T1	0	0	0	0	0	0	-0.38	-0.39	1	1	0	600	600	0
3/29/2024 15:55	62607	ENGL_T1	2	3	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
3/29/2024 15:55	62605	ENGL_T1	4	5	1	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
3/29/2024 15:56	62604	ENGL_T1	0	0	0	0	0	0	-0.38	-0.39	1	1	0	600	600	0
3/29/2024 15:56	62607	ENGL_T1	2	3	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
3/29/2024 15:56	62605	ENGL_T1	4	5	1	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
3/29/2024 15:57	62604	ENGL_T1	0	0	0	0	0	0	-0.76	-0.78	2	2	0	1200	1200	0
3/29/2024 15:57	62605	ENGL_T1	4	5	1	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
3/29/2024 15:57	62607	ENGL_T1	2	3	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
3/29/2024 16:01	40903	JESH_T1	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/29/2024 16:01	40901	JESH_T1	3	3	0	0.23	0.37	0.14	0	0	0	0	0	0	0	0
3/29/2024 16:01	40902	JESH_T1	9	7	-2	0.34	0.36	0.02	-0.83	-0.81	0	0	0	0	0	0
3/29/2024 16:03	64802	MONE_T2	222	241	19	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
3/29/2024 16:03	64801	MONE_T2	253	250	-3	0.4	0.37	-0.03	-0.36	-0.36	0	0	0	0	0	0
3/29/2024 16:06	40901	JESH_T1	3	3	0	0.23	0.37	0.14	0	0	0	0	0	0	0	0
3/29/2024 16:06	40902	JESH_T1	9	7	-2	0.34	0.36	0.02	-0.83	-0.81	0	0	0	0	0	0
3/29/2024 16:06	40903	JESH_T1	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/29/2024 16:08	64801	MONE_T2	253	250	-3	0.4	0.37	-0.03	-0.36	-0.4	0	0	0	0	0	0
3/29/2024 16:08	64802	MONE_T2	222	241	19	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
3/29/2024 16:09	14402	SSLA_T1	7	5	-2	0.4	0.4	0	0	0	0	0	0	0	0	0
3/29/2024 16:09	14401	SSLA_T1	4	5	1	0.23	0.54	0.31	0	0	0	0	0	0	0	0
3/29/2024 16:09	14404	SSLA_T1	5	6	1	1.42	1.25	-0.17	0	0	0	0	0	0	0	0
3/29/2024 16:09	14403	SSLA_T1	2	2	0	0.4	0.3	-0.1	0.53	0.53	0	0	0	0	0	0
3/29/2024 16:17	40903	JESH_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/29/2024 16:17	40901	JESH_T1	3	2	-1	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
3/29/2024 16:17	40902	JESH_T1	6	5	-1	0.4	0.32	-0.08	-0.81	-0.82	0	0	0	0	0	0
3/29/2024 16:19	41902	REED_T1	0	3	3	0	0	0	1.03	1.08	0	0	0	0	0	0
3/29/2024 16:22	40903	JESH_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/29/2024 16:22	40901	JESH_T1	3	2	-1	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
3/29/2024 16:22	40902	JESH_T1	6	5	-1	0.4	0.32	-0.08	-0.81	-0.82	0	0	0	0	0	0
3/29/2024 16:23	41902	REED_T1	0	3	3	0	0	0	1.08	1.09	0	0	0	0	0	0
3/29/2024 16:39	56501	ROCK_T2	230	217	-13	0.26	0.27	0.01	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 16:39	56504	ROCK_T2	3	1	-2	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
3/29/2024 16:39	56503	ROCK_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/29/2024 16:45	56501	ROCK_T2	205	161	-44	0.26	0.27	0.01	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 16:45	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/29/2024 16:45	56504	ROCK_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/29/2024 18:08	60801	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/29/2024 18:08	60803	BUCK_T1	4	5	1	0.1	0.1	0	-0.53	-0.56	1	1	0	600	600	0
3/29/2024 20:07	67204	TEHI_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
3/29/2024 20:10	67204	TEHI_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/29/2024 20:12	56802	BENV_T2	157	286	129	0.35	0.57	0.22	-1.48	-1.48	0	0	0	0	0	0
3/29/2024 20:12	43201	MVIL_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
3/29/2024 20:12	43202	MVIL_T2	1	37	36	0.2	0.21	0.01	0	0	0	0	0	0	0	0
3/29/2024 20:15	56802	BENV_T2	266	284	18	0.5	0.58	0.08	-1.48	-1.48	0	0	0	0	0	0
3/29/2024 20:38	65001	NEFF_T2	231	242	11	0.33	0.41	0.08	-1.4	-1.39	1	1	0	1200	1200	0
3/29/2024 20:41	10805	CHHI_T2	6	1	-5	1.38	7.3	5.92	-1.04	-1.05	0	0	0	0	0	0
3/29/2024 20:43	45501	DERR_T2	0	0	0	0	0	0	-0.53	-0.49	2	2	0	1800	1800	0
3/29/2024 20:45	46004	BERW_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
3/29/2024 20:49	46004	BERW_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
3/29/2024 20:53	59402	RFLD_T2	0	0	0	0	0	0	-0.85	-0.87	1	1	0	450	450	0
3/29/2024 21:09	56802	BENV_T2	283	259	-24	0.61	0.46	-0.15	-1.47	-1.41	0	0	0	0	0	0
3/29/2024 21:10	56802	BENV_T2	283	259	-24	0.61	0.46	-0.15	-1.47	-1.41	0	0	0	0	0	0
3/29/2024 21:11	56802	BENV_T2	283	259	-24	0.61	0.46	-0.15	-1.47	-1.41	0	0	0	0	0	0
3/29/2024 21:12	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
3/29/2024 21:12	56802	BENV_T2	283	259	-24	0.61	0.46	-0.15	-2.94	-2.83	0	0	0	0	0	0
3/29/2024 21:12	15704	TANN_T1	0	0	0	0	0	0	-1.13	-1.3	0	0	0	0	0	0
3/29/2024 21:13	53903	HALI_T2	2	2	0	0.4	1.65	1.25	-0.22	-0.2	0	0	0	0	0	0
3/29/2024 21:13	53901	HALI_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/29/2024 21:13	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
3/29/2024 21:13	56802	BENV_T2	283	259	-24	0.61	0.46	-0.15	-1.47	-1.41	0	0	0	0	0	0
3/29/2024 21:16	21901	HUMB_T1	0	0	0	0	0	0	-0.81	-0.79	0	0	0	0	0	0
3/29/2024 21:16	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
3/29/2024 21:16	53903	HALI_T2	2	2	0	1.65	1.65	0	-0.22	-0.2	0	0	0	0	0	0
3/29/2024 21:16	53901	HALI_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/29/2024 21:19	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
3/29/2024 21:19	53901	HALI_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/29/2024 21:19	53903	HALI_T2	2	2	0	1.65	1.65	0	-0.22	-0.2	0	0	0	0	0	0
3/29/2024 21:22	62607	ENGL_T1	0	0	0	0	0	0	-1.18	-1.18	1	1	0	300	300	0
3/29/2024 21:22	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 21:23	25402	LAHA_T2	0	0	0	0	0	0	-0.79	-0.79	0	0	0	0	0	0
3/29/2024 21:25	17002	RIRO_T2	19	35	16	0.13	0.15	0.02	0.31	0.32	0	0	0	0	0	0
3/29/2024 21:26	16402	MOPO_T1	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
3/29/2024 21:26	56802	BENV_T2	257	247	-10	0.46	0.39	-0.07	-1.41	-1.42	0	0	0	0	0	0
3/29/2024 21:26	66505	SMAN_T2	3	3	0	0.7	0.57	-0.13	-0.4	-0.4	1	1	0	900	900	0
3/29/2024 21:26	66503	SMAN_T2	5	6	1	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/29/2024 21:27	42903	MIDD_T2	26	25	-1	0.37	0.38	0.01	0	0	0	0	0	0	0	0
3/29/2024 21:27	56802	BENV_T2	257	247	-10	0.46	0.39	-0.07	-1.41	-1.42	0	0	0	0	0	0
3/29/2024 21:27	42901	MIDD_T2	251	285	34	0.41	0.39	-0.02	0	0	0	0	0	0	0	0
3/29/2024 21:27	42902	MIDD_T2	131	161	30	0.39	0.4	0.01	-0.6	-0.61	0	0	0	0	0	0
3/29/2024 21:27	46001	BERW_T1	1	1	0	0.1	0.2	0.1	0.55	0.51	0	0	0	0	0	0
3/29/2024 21:27	26002	WDAM_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/29/2024 21:27	26001	WDAM_T1	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
3/29/2024 21:28	66503	SMAN_T2	5	6	1	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/29/2024 21:28	66505	SMAN_T2	3	3	0	0.7	0.57	-0.13	0	0	0	0	0	0	0	0
3/29/2024 21:28	64702	LITI_T2	13	17	4	0.18	0.14	-0.04	-0.8	-0.87	0	0	0	0	0	0
3/29/2024 21:28	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 21:28	64703	LITI_T2	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 21:28	66504	SMAN_T2	0	0	0	0	0	0	-1.28	-1.34	0	0	0	0	0	0
3/29/2024 21:28	13901	SEID_T1	0	0	0	0	0	0	-0.88	-0.87	1	1	0	1200	1200	0
3/29/2024 21:29	52503	PROG_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	900	900	0
3/29/2024 21:29	67002	STHI_T2	31	38	7	0.12	0.12	0	0.51	0.5	0	0	0	0	0	0
3/29/2024 21:29	67001	STHI_T2	190	248	58	0.15	0.16	0.01	0	0	0	0	0	0	0	0
3/29/2024 21:30	63804	HEMP_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/29/2024 21:30	67502	WEWI_T2	0	0	0	0	0	0	-0.54	-0.5	0	0	0	0	0	0
3/29/2024 21:30	60701	BREC_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
3/29/2024 21:30	52402	GRPA_T2	4	4	0	1.3	1.48	0.18	0	0	0	0	0	0	0	0
3/29/2024 21:30	63802	HEMP_T1	0	0	0	0	0	0	0.09	0.03	0	0	0	0	0	0
3/29/2024 21:30	52404	GRPA_T2	0	0	0	0	0	0	1.02	0.96	0	0	0	0	0	0
3/29/2024 21:30	10805	CHHI_T2	1	6	5	7.5	7.2	-0.3	-1.07	-1.07	0	0	0	0	0	0
3/29/2024 21:30	57401	SPAN_T1	2	2	0	0.85	1.45	0.6	-0.29	-0.58	1	1	0	600	600	0
3/29/2024 21:30	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 21:30	57403	SPAN_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
3/29/2024 21:31	64202	KINZ_T1	33	55	22	0.34	0.45	0.11	0	0	0	0	0	0	0	0
3/29/2024 21:31	67502	WEWI_T2	0	0	0	0	0	0	-0.54	-0.5	0	0	0	0	0	0
3/29/2024 21:31	67605	WARW_T1	30	34	4	0.53	0.51	-0.02	-1.02	-1.01	0	0	0	0	0	0
3/29/2024 21:31	64204	KINZ_T1	32	40	8	0.36	0.57	0.21	0	0	0	0	0	0	0	0
3/29/2024 21:31	67001	STHI_T2	213	272	59	0.14	0.18	0.04	0	0	0	0	0	0	0	0
3/29/2024 21:31	40602	PIGR_T1	0	0	0	0	0	0	-0.16	-0.24	2	2	0	1200	1200	0
3/29/2024 21:31	42201	SHEN_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
3/29/2024 21:31	64201	KINZ_T1	9	18	9	0.74	0.54	-0.2	0.65	0.72	0	0	0	0	0	0
3/29/2024 21:31	67002	STHI_T2	20	58	38	0.14	0.14	0	2.04	2.01	0	0	0	0	0	0
3/29/2024 21:31	64203	KINZ_T1	85	212	127	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/29/2024 21:32	64201	KINZ_T1	9	18	9	0.74	0.54	-0.2	0	0	0	0	0	0	0	0
3/29/2024 21:32	20403	ASHF_T2	0	0	0	0	0	0	0.19	0.22	0	0	0	0	0	0
3/29/2024 21:32	47001	HUGH_T2	0	0	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0
3/29/2024 21:32	49803	UNIV_T1	16	28	12	0.14	0.21	0.07	-1.13	-1.11	0	0	0	0	0	0
3/29/2024 21:32	16302	ALPA_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
3/29/2024 21:32	64202	KINZ_T1	33	55	22	0.34	0.45	0.11	0	0	0	0	0	0	0	0
3/29/2024 21:32	64204	KINZ_T1	32	40	8	0.36	0.57	0.21	0	0	0	0	0	0	0	0
3/29/2024 21:32	41901	REED_T1	9	9	0	0.36	0.44	0.08	0	0	0	0	0	0	0	0
3/29/2024 21:32	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 21:32	64203	KINZ_T1	85	212	127	0.3	0.28	-0.02	-0.03	-0.06	0	0	0	0	0	0
3/29/2024 21:32	45303	WBER_T2	8	8	0	0.41	0.53	0.12	-0.3	-0.27	0	0	0	0	0	0
3/29/2024 21:32	41902	REED_T1	0	0	0	0	0	0	1.04	1.03	0	0	0	0	0	0
3/29/2024 21:32	27502	WEIS_T2	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
3/29/2024 21:33	64204	KINZ_T1	32	40	8	0.36	0.57	0.21	0	0	0	0	0	0	0	0
3/29/2024 21:33	64201	KINZ_T1	9	18	9	0.74	0.54	-0.2	0	0	0	0	0	0	0	0
3/29/2024 21:33	64801	MONE_T2	29	52	23	0.31	0.32	0.01	0	0	0	0	0	0	0	0
3/29/2024 21:33	64203	KINZ_T1	85	212	127	0.3	0.28	-0.02	-0.03	-0.06	0	0	0	0	0	0
3/29/2024 21:33	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 21:33	59202	THOM_T1	228	286	58	0.28	0.38	0.1	0	0	0	0	0	0	0	0
3/29/2024 21:33	20403	ASHF_T2	0	0	0	0	0	0	0.19	0.22	0	0	0	0	0	0
3/29/2024 21:33	60701	BREC_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
3/29/2024 21:33	42002	MNVL_T2	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0	0
3/29/2024 21:33	57401	SPAN_T1	2	2	0	0.85	1.45	0.6	0	0	0	0	0	0	0	0
3/29/2024 21:33	42001	MNVL_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
3/29/2024 21:33	58402	MORO_T1	0	0	0	0	0	0	0.02	0.01	1	1	0	900	900	0
3/29/2024 21:33	64202	KINZ_T1	33	55	22	0.34	0.45	0.11	0	0	0	0	0	0	0	0
3/29/2024 21:33	40603	PIGR_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
3/29/2024 21:33	64802	MONE_T2	48	47	-1	0.2	0.13	-0.07	0.13	0.17	0	0	0	0	0	0
3/29/2024 21:33	57403	SPAN_T1	0	5	5	0	0.12	0.12	0.03	0	0	0	0	0	0	0
3/29/2024 21:33	59201	THOM_T1	16	20	4	0.42	0.58	0.16	0	0	0	0	0	0	0	0
3/29/2024 21:34	44302	BEAV_T2	270	363	93	0.6	0.71	0.11	0.25	0.26	0	0	0	0	0	0
3/29/2024 21:34	60701	BREC_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
3/29/2024 21:34	10801	CHHI_T1	0	0	0	0	0	0	-0.97	-0.99	1	1	0	900	900	0
3/29/2024 21:34	67002	STHI_T2	20	58	38	0.14	0.14	0	0.51	0.5	0	0	0	0	0	0
3/29/2024 21:34	56501	ROCK_T2	25	90	65	0.24	0.22	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 21:34	10805	CHHI_T2	1	6	5	7.5	7.2	-0.3	-1.07	-1.07	0	0	0	0	0	0
3/29/2024 21:34	49803	UNIV_T1	16	28	12	0.14	0.21	0.07	-1.13	-1.11	0	0	0	0	0	0
3/29/2024 21:34	44301	BEAV_T2	12	15	3	0.44	0.49	0.05	0	0	0	0	0	0	0	0
3/29/2024 21:34	67001	STHI_T2	213	272	59	0.14	0.18	0.04	0	0	0	0	0	0	0	0
3/29/2024 21:34	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 21:34	59101	WALK_T2	0	0	0	0	0	0	1.02	1	0	0	0	0	0	0
3/29/2024 21:34	62601	ENGL_T1	0	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0
3/29/2024 21:34	60801	BUCK_T1	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
3/29/2024 21:34	56802	BENV_T2	209	254	45	0.3	0.43	0.13	-1.41	-1.42	0	0	0	0	0	0
3/29/2024 21:34	62604	ENGL_T1	0	0	0	0	0	0	-0.48	-0.43	1	1	0	600	600	0
3/29/2024 21:34	40603	PIGR_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
3/29/2024 21:34	58001	WCAR_T1	4	4	0	1	1.15	0.15	0	0	0	0	0	0	0	0
3/29/2024 21:34	58003	WCAR_T1	1	1	0	1.6	1.5	-0.1	0.51	0.51	0	0	0	0	0	0
3/29/2024 21:35	14403	SSLA_T1	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
3/29/2024 21:35	54603	SUMM_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/29/2024 21:35	64201	KINZ_T1	9	18	9	0.74	0.54	-0.2	0	0	0	0	0	0	0	0
3/29/2024 21:35	63802	HEMP_T1	0	0	0	0	0	0	0.09	0.03	0	0	0	0	0	0
3/29/2024 21:35	64202	KINZ_T1	33	55	22	0.34	0.45	0.11	0.26	0.2	0	0	0	0	0	0
3/29/2024 21:35	65001	NEFF_T2	246	263	17	0.55	0.61	0.06	-1.42	-1.44	1	1	0	1200	1200	0
3/29/2024 21:35	14404	SSLA_T1	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
3/29/2024 21:35	56501	ROCK_T2	25	90	65	0.24	0.22	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 21:35	63804	HEMP_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
3/29/2024 21:35	64204	KINZ_T1	32	40	8	0.36	0.57	0.21	0	0	0	0	0	0	0	0
3/29/2024 21:35	56802	BENV_T2	209	254	45	0.3	0.43	0.13	-1.41	-1.42	0	0	0	0	0	0
3/29/2024 21:35	42201	SHEN_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
3/29/2024 21:35	64203	KINZ_T1	85	212	127	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/29/2024 21:35	65003	NEFF_T2	3	4	1	0.13	0.23	0.1	0	0	0	0	0	0	0	0
3/29/2024 21:35	54601	SUMM_T2	9	11	2	0.56	0.77	0.21	-2.01	-1.99	2	2	0	2100	2100	0
3/29/2024 21:35	45303	WBER_T2	8	8	0	0.41	0.53	0.12	-0.3	-0.27	0	0	0	0	0	0
3/29/2024 21:36	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/29/2024 21:36	54502	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/29/2024 21:36	28403	HART_T2	0	0	0	0	0	0	-0.8	-0.83	1	1	0	900	900	0
3/29/2024 21:36	63802	HEMP_T1	0	0	0	0	0	0	0.09	0.03	0	0	0	0	0	0
3/29/2024 21:36	59402	RFLD_T2	0	0	0	0	0	0	-1.74	-1.74	2	2	0	900	900	0
3/29/2024 21:36	64201	KINZ_T1	9	18	9	0.74	0.54	-0.2	0	0	0	0	0	0	0	0
3/29/2024 21:36	57403	SPAN_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
3/29/2024 21:36	64202	KINZ_T1	33	55	22	0.34	0.45	0.11	0	0	0	0	0	0	0	0
3/29/2024 21:36	57401	SPAN_T1	2	2	0	0.85	1.45	0.6	-0.29	-0.58	1	1	0	600	600	0
3/29/2024 21:36	64203	KINZ_T1	85	212	127	0.3	0.28	-0.02	-0.03	-0.06	0	0	0	0	0	0
3/29/2024 21:36	62601	ENGL_T1	0	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0
3/29/2024 21:36	52503	PROG_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	900	900	0
3/29/2024 21:36	63804	HEMP_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
3/29/2024 21:36	62604	ENGL_T1	0	0	0	0	0	0	-0.48	-0.43	1	1	0	600	600	0
3/29/2024 21:36	50201	HARR_T3	2	2	0	4.75	5.25	0.5	0	0	0	0	0	0	0	0
3/29/2024 21:36	54503	ENOL_T2	0	0	0	0	0	0	-1.31	-1.32	1	1	0	600	600	0
3/29/2024 21:36	40602	PIGR_T1	0	0	0	0	0	0	-0.08	-0.12	1	1	0	600	600	0
3/29/2024 21:36	50105	HARR_T3	8	8	0	5.58	5.49	-0.09	0	0	0	0	0	0	0	0
3/29/2024 21:36	50103	HARR_T3	2	3	1	0.8	0.57	-0.23	-1.12	-1.14	1	1	0	1200	1200	0
3/29/2024 21:36	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
3/29/2024 21:36	50202	HARR_T3	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/29/2024 21:36	64402	LAND_T2	0	0	0	0	0	0	-0.56	-0.55	1	1	0	600	600	0
3/29/2024 21:36	42701	AUGU_T1	1	1	0	0.2	0.2	0	0	0	2	2	0	1800	1800	0
3/29/2024 21:36	64204	KINZ_T1	32	40	8	0.36	0.57	0.21	0	0	0	0	0	0	0	0
3/29/2024 21:37	42902	MIDD_T2	123	204	81	0.36	0.5	0.14	-0.6	-0.61	0	0	0	0	0	0
3/29/2024 21:37	13704	SCHN_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
3/29/2024 21:37	46506	LOHA_T1	1	1	0	0.3	0.8	0.5	-0.43	-0.45	0	0	0	0	0	0
3/29/2024 21:37	43103	SMIL_T2	16	18	2	0.62	0.85	0.23	-0.97	-0.97	0	0	0	0	0	0
3/29/2024 21:37	57403	SPAN_T1	0	5	5	0	0.12	0.12	0.03	0	0	0	0	0	0	0
3/29/2024 21:37	59301	MCAL_T1	2	16	14	1.1	0.24	-0.86	-1.23	-1.2	0	0	0	0	0	0
3/29/2024 21:37	67002	STHI_T2	20	58	38	0.14	0.14	0	1.02	1	0	0	0	0	0	0
3/29/2024 21:37	57304	MOAL_T2	0	0	0	0	0	0	-0.52	-0.27	0	0	0	0	0	0
3/29/2024 21:37	56501	ROCK_T2	25	90	65	0.24	0.22	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 21:37	43102	SMIL_T2	7	8	1	0.87	0.93	0.06	0	0	0	0	0	0	0	0
3/29/2024 21:37	59302	MCAL_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/29/2024 21:37	57401	SPAN_T1	2	2	0	0.85	1.45	0.6	-0.29	-0.58	1	1	0	600	600	0
3/29/2024 21:37	42903	MIDD_T2	21	73	52	0.4	0.34	-0.06	0	0	0	0	0	0	0	0
3/29/2024 21:37	43105	SMIL_T2	11	16	5	0.19	0.28	0.09	0	0	0	0	0	0	0	0
3/29/2024 21:37	54603	SUMM_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/29/2024 21:37	54502	ENOL_T2	1	1	0	0.2	0.4	0.2	-1.15	-1.15	1	1	0	600	600	0
3/29/2024 21:37	20403	ASHF_T2	0	0	0	0	0	0	0.19	0.22	0	0	0	0	0	0
3/29/2024 21:37	67502	WEWI_T2	0	0	0	0	0	0	-0.54	-0.5	0	0	0	0	0	0
3/29/2024 21:37	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
3/29/2024 21:37	47101	MARL_T1	0	0	0	0	0	0	-0.73	-0.38	1	0	-1	600	0	-600
3/29/2024 21:37	42802	SELI_T1	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
3/29/2024 21:37	67001	STHI_T2	213	272	59	0.14	0.18	0.04	0	0	0	0	0	0	0	0
3/29/2024 21:37	54601	SUMM_T2	9	11	2	0.56	0.77	0.21	-2.01	-1.99	2	2	0	2100	2100	0
3/29/2024 21:37	42901	MIDD_T2	238	360	122	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/29/2024 21:37	43108	SMIL_T2	3	3	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/29/2024 21:37	57303	MOAL_T2	1	1	0	7.6	7.3	-0.3	0	0	0	0	0	0	0	0
3/29/2024 21:37	67401	WAKE_T2	0	0	0	0	0	0	-0.96	-0.94	0	0	0	0	0	0
3/29/2024 21:37	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	-1.36	-1.33	1	1	0	600	600	0
3/29/2024 21:37	46504	LOHA_T1	2	18	16	1.15	0.27	-0.88	0	0	0	0	0	0	0	0
3/29/2024 21:38	58001	WCAR_T1	4	4	0	1	1.15	0.15	0	0	0	0	0	0	0	0
3/29/2024 21:38	45602	WOOL_T1	2	3	1	0.5	0.43	-0.07	0.39	0.41	0	0	0	0	0	0
3/29/2024 21:38	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
3/29/2024 21:38	46203	DANV_T2	106	122	16	0.53	0.56	0.03	-1.04	-1.04	0	0	0	0	0	0
3/29/2024 21:38	55002	NEWP_T1	5	5	0	1.38	1.56	0.18	-0.26	-0.28	0	0	0	0	0	0
3/29/2024 21:38	59101	WALK_T2	0	0	0	0	0	0	1	1.04	0	0	0	0	0	0
3/29/2024 21:38	61801	EELI_T2	1	1	0	0.2	0.4	0.2	-0.97	-0.88	0	0	0	0	0	0
3/29/2024 21:38	54502	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/29/2024 21:38	54204	PENN_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
3/29/2024 21:38	46206	DANV_T2	0	0	0	0	0	0	2.05	2.05	1	1	0	1200	1200	0
3/29/2024 21:38	56501	ROCK_T2	25	90	65	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
3/29/2024 21:38	42701	AUGU_T1	1	1	0	0.2	0.2	0	0	0	2	2	0	1800	1800	0
3/29/2024 21:38	42501	ALTA_T2	0	0	0	0	0	0	-0.02	-0.08	1	1	0	600	600	0
3/29/2024 21:38	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
3/29/2024 21:38	54206	PENN_T2	38	42	4	0.11	0.18	0.07	-0.19	-0.19	0	0	0	0	0	0
3/29/2024 21:38	46004	BERW_T2	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
3/29/2024 21:38	58003	WCAR_T1	1	1	0	1.6	1.5	-0.1	0.51	0.5	0	0	0	0	0	0
3/29/2024 21:38	54202	PENN_T2	10	23	13	0.12	0.13	0.01	0	0	0	0	0	0	0	0
3/29/2024 21:38	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	-1.33	-1.36	1	1	0	600	600	0
3/29/2024 21:38	45003	LIME_2	1	1	0	3.3	3.5	0.2	0	0	0	0	0	0	0	0
3/29/2024 21:39	52002	LING_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/29/2024 21:39	52004	LING_T2	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
3/29/2024 21:39	58402	MORO_T1	0	0	0	0	0	0	0.01	-0.01	1	1	0	900	900	0
3/29/2024 21:39	42001	MNVL_T2	0	0	0	0	0	0	0.01	-0.03	0	0	0	0	0	0
3/29/2024 21:39	66703	STRA_T1	1	3	2	0.3	0.2	-0.1	-0.35	-0.34	0	0	0	0	0	0
3/29/2024 21:39	62601	ENGL_T1	0	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0
3/29/2024 21:39	66303	MCGO_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/29/2024 21:39	64801	MONE_T2	29	52	23	0.31	0.32	0.01	0	0	0	0	0	0	0	0
3/29/2024 21:39	28604	BLYT_T2	0	0	0	0	0	0	-1.46	-1.47	0	0	0	0	0	0
3/29/2024 21:39	64301	LINC_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/29/2024 21:39	47002	HUGH_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
3/29/2024 21:39	66302	MCGO_T2	0	0	0	0	0	0	-0.87	-0.91	0	0	0	0	0	0
3/29/2024 21:39	64802	MONE_T2	48	47	-1	0.2	0.13	-0.07	0.17	0.18	0	0	0	0	0	0
3/29/2024 21:39	55002	NEWP_T1	5	5	0	1.38	1.56	0.18	-0.26	-0.28	0	0	0	0	0	0
3/29/2024 21:39	52401	GRPA_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
3/29/2024 21:39	57401	SPAN_T1	2	2	0	0.85	1.45	0.6	-0.58	-0.57	1	1	0	600	600	0
3/29/2024 21:39	42903	MIDD_T2	21	73	52	0.4	0.34	-0.06	0	0	0	0	0	0	0	0
3/29/2024 21:39	42002	MNVL_T2	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0	0
3/29/2024 21:39	40901	JESH_T1	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 21:39	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 21:39	52402	GRPA_T2	4	4	0	1.3	1.48	0.18	-0.89	-0.9	0	0	0	0	0	0
3/29/2024 21:39	42902	MIDD_T2	123	204	81	0.36	0.5	0.14	-0.61	-0.67	0	0	0	0	0	0
3/29/2024 21:39	62604	ENGL_T1	0	0	0	0	0	0	-0.43	-0.48	1	1	0	600	600	0
3/29/2024 21:39	57403	SPAN_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
3/29/2024 21:39	52006	LING_T2	2	2	0	1	1.05	0.05	0	0	0	0	0	0	0	0
3/29/2024 21:39	40902	JESH_T1	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
3/29/2024 21:39	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 21:39	42901	MIDD_T2	238	360	122	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/29/2024 21:39	12701	MACU_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
3/29/2024 21:40	45402	WBLO_T2	3	20	17	0.1	0.17	0.07	-0.8	-0.83	0	0	0	0	0	0
3/29/2024 21:40	52401	GRPA_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
3/29/2024 21:40	54502	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/29/2024 21:40	52402	GRPA_T2	4	4	0	1.3	1.48	0.18	0	0	0	0	0	0	0	0
3/29/2024 21:40	46004	BERW_T2	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
3/29/2024 21:40	45303	WBER_T2	8	8	0	0.41	0.53	0.12	-0.27	-0.31	0	0	0	0	0	0
3/29/2024 21:40	54603	SUMM_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/29/2024 21:40	50202	HARR_T3	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/29/2024 21:40	50201	HARR_T3	2	2	0	4.75	5.25	0.5	0	0	0	0	0	0	0	0
3/29/2024 21:40	54503	ENOL_T2	0	0	0	0	0	0	-1.32	-1.29	1	1	0	600	600	0
3/29/2024 21:40	13704	SCHN_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
3/29/2024 21:40	45702	LIND_T2	1	1	0	0.5	0.9	0.4	-0.51	-0.54	0	0	0	0	0	0
3/29/2024 21:40	64204	KINZ_T1	32	40	8	0.36	0.57	0.21	0	0	0	0	0	0	0	0
3/29/2024 21:40	50103	HARR_T3	2	3	1	0.8	0.57	-0.23	-1.14	-1.05	1	1	0	1200	1200	0
3/29/2024 21:40	42802	SELI_T1	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
3/29/2024 21:40	14404	SSLA_T1	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
3/29/2024 21:40	59402	RFLD_T2	0	0	0	0	0	0	-0.87	-0.85	1	1	0	450	450	0
3/29/2024 21:40	64201	KINZ_T1	9	18	9	0.74	0.54	-0.2	0	0	0	0	0	0	0	0
3/29/2024 21:40	64202	KINZ_T1	33	55	22	0.34	0.45	0.11	0	0	0	0	0	0	0	0
3/29/2024 21:40	43202	MVIL_T2	22	57	35	0.22	0.49	0.27	-0.7	-0.68	0	0	0	0	0	0
3/29/2024 21:40	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	-1.33	-1.36	1	1	0	600	600	0
3/29/2024 21:40	64203	KINZ_T1	85	212	127	0.3	0.28	-0.02	-0.06	-0.03	0	0	0	0	0	0
3/29/2024 21:40	50105	HARR_T3	8	8	0	5.58	5.49	-0.09	0	0	0	0	0	0	0	0
3/29/2024 21:40	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 21:40	54601	SUMM_T2	9	11	2	0.56	0.77	0.21	-1.99	-2.03	2	2	0	2100	2100	0
3/29/2024 21:40	52403	GRPA_T2	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
3/29/2024 21:40	14403	SSLA_T1	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
3/29/2024 21:41	46801	HEPB_T2	3	7	4	0.5	0.29	-0.21	0.57	0.58	0	0	0	0	0	0
3/29/2024 21:41	58401	MORO_T1	0	0	0	0	0	0	-1.24	-1.25	1	1	0	600	600	0
3/29/2024 21:41	42903	MIDD_T2	21	73	52	0.4	0.34	-0.06	0	0	0	0	0	0	0	0
3/29/2024 21:41	13704	SCHN_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
3/29/2024 21:41	46803	HEPB_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/29/2024 21:41	42902	MIDD_T2	123	204	81	0.36	0.5	0.14	-0.61	-0.67	0	0	0	0	0	0
3/29/2024 21:41	46206	DANV_T2	0	0	0	0	0	0	2.05	2.05	1	1	0	1200	1200	0
3/29/2024 21:41	52403	GRPA_T2	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
3/29/2024 21:41	56501	ROCK_T2	25	90	65	0.24	0.22	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/29/2024 21:41	46203	DANV_T2	106	122	16	0.53	0.56	0.03	-1.04	-1.04	0	0	0	0	0	0
3/29/2024 21:41	58803	COCO_T1	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
3/29/2024 21:41	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
3/29/2024 21:41	52402	GRPA_T2	4	4	0	1.3	1.48	0.18	0	0	0	0	0	0	0	0
3/29/2024 21:41	42901	MIDD_T2	238	360	122	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/29/2024 21:42	42901	MIDD_T2	238	360	122	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/29/2024 21:42	40901	JESH_T1	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
3/29/2024 21:42	45402	WBLO_T2	3	20	17	0.1	0.17	0.07	-0.8	-0.83	0	0	0	0	0	0
3/29/2024 21:42	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
3/29/2024 21:42	40902	JESH_T1	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
3/29/2024 21:42	42903	MIDD_T2	21	73	52	0.4	0.34	-0.06	0	0	0	0	0	0	0	0
3/29/2024 21:42	67901	WNHO_T2	232	264	32	0.52	0.58	0.06	-0.61	-0.56	0	0	0	0	0	0
3/29/2024 21:42	56501	ROCK_T2	25	90	65	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
3/29/2024 21:42	58803	COCO_T1	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
3/29/2024 21:42	42902	MIDD_T2	123	204	81	0.36	0.5	0.14	-0.61	-0.67	0	0	0	0	0	0
3/29/2024 21:42	46504	LOHA_T1	2	18	16	1.15	0.27	-0.88	0	0	0	0	0	0	0	0
3/29/2024 21:42	41902	REED_T1	0	0	0	0	0	0	1.03	1	0	0	0	0	0	0
3/29/2024 21:42	46506	LOHA_T1	1	1	0	0.3	0.8	0.5	-0.9	-0.9	0	0	0	0	0	0
3/29/2024 21:42	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 21:42	42201	SHEN_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
3/29/2024 21:42	60701	BREC_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
3/29/2024 21:42	64305	LINC_T1	0	0	0	0	0	0	-0.75	-0.79	0	0	0	0	0	0
3/29/2024 21:42	41901	REED_T1	9	9	0	0.36	0.44	0.08	0	0	0	0	0	0	0	0
3/29/2024 21:43	41901	REED_T1	9	9	0	0.36	0.44	0.08	0	0	0	0	0	0	0	0
3/29/2024 21:43	41902	REED_T1	0	0	0	0	0	0	1.03	1	0	0	0	0	0	0
3/29/2024 21:43	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	-1.33	-1.36	1	1	0	600	600	0
3/29/2024 21:43	56802	BENV_T2	209	254	45	0.3	0.43	0.13	-1.42	-1.37	0	0	0	0	0	0
3/29/2024 21:43	40101	HUNT_T2	0	0	0	0	0	0	-1.38	-1.34	0	0	0	0	0	0
3/29/2024 21:43	54502	ENOL_T2	1	1	0	0.2	0.4	0.2	-1.15	-1.15	1	1	0	600	600	0
3/29/2024 21:43	55105	WERT_T1	0	0	0	0	0	0	-0.64	-0.69	0	0	0	0	0	0
3/29/2024 21:44	56802	BENV_T2	209	254	45	0.3	0.43	0.13	-1.42	-1.37	0	0	0	0	0	0
3/29/2024 21:44	43108	SMIL_T2	3	3	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/29/2024 21:44	43104	SMIL_T2	0	0	0	0	0	0	-0.8	-0.8	1	1	0	300	300	0
3/29/2024 21:44	43105	SMIL_T2	11	16	5	0.19	0.28	0.09	0	0	0	0	0	0	0	0
3/29/2024 21:44	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.1	0	0	0	0	0	0
3/29/2024 21:44	52402	GRPA_T2	4	4	0	1.3	1.48	0.18	0	0	0	0	0	0	0	0
3/29/2024 21:44	44302	BEAV_T2	270	363	93	0.6	0.71	0.11	0.26	0.26	0	0	0	0	0	0
3/29/2024 21:44	46301	ROHR_T1	25	102	77	0.16	0.24	0.08	0	0	0	0	0	0	0	0
3/29/2024 21:44	43102	SMIL_T2	7	8	1	0.87	0.93	0.06	0	0	0	0	0	0	0	0
3/29/2024 21:44	59101	WALK_T2	0	0	0	0	0	0	1	1.04	0	0	0	0	0	0
3/29/2024 21:44	52403	GRPA_T2	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
3/29/2024 21:44	44301	BEAV_T2	12	15	3	0.44	0.49	0.05	0	0	0	0	0	0	0	0
3/29/2024 21:44	46302	ROHR_T1	4	4	0	1.8	2.25	0.45	0.19	0.19	0	0	0	0	0	0
3/29/2024 21:44	43103	SMIL_T2	16	18	2	0.62	0.85	0.23	0	0	0	0	0	0	0	0
3/29/2024 21:45	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
3/29/2024 21:45	41902	REED_T1	0	0	0	0	0	0	1.03	1	0	0	0	0	0	0
3/29/2024 21:45	58401	MORO_T1	0	0	0	0	0	0	-2.48	-2.5	2	2	0	1200	1200	0
3/29/2024 21:45	56802	BENV_T2	238	236	-2	0.4	0.41	0.01	-1.42	-1.37	0	0	0	0	0	0
3/29/2024 21:45	41901	REED_T1	7	9	2	0.43	0.49	0.06	0	0	0	0	0	0	0	0
3/29/2024 21:47	54202	PENN_T2	7	21	14	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/29/2024 21:47	54206	PENN_T2	26	42	16	0.13	0.18	0.05	-0.1	-0.1	0	0	0	0	0	0
3/29/2024 21:47	54204	PENN_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
3/29/2024 21:47	44301	BEAV_T2	12	15	3	0.51	0.65	0.14	0	0	0	0	0	0	0	0
3/29/2024 21:47	44302	BEAV_T2	313	418	105	0.61	0.7	0.09	0.26	0.26	0	0	0	0	0	0
3/29/2024 21:55	45001	LIME_2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 21:55	45003	LIME_2	1	1	0	3.1	3.5	0.4	0	0	0	0	0	0	0	0
3/29/2024 22:00	54202	PENN_T2	21	0	-21	0.13	0	-0.13	0.45	0.47	0	0	0	0	0	0
3/29/2024 22:00	54204	PENN_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/29/2024 22:00	54206	PENN_T2	42	0	-42	0.18	0	-0.18	0	0	0	0	0	0	0	0
3/29/2024 22:06	62604	ENGL_T1	0	0	0	0	0	0	-0.48	-0.45	1	1	0	600	600	0
3/29/2024 22:06	62601	ENGL_T1	1	0	-1	6.9	0	-6.9	0	0	0	0	0	0	0	0
3/29/2024 22:11	47101	MARL_T1	0	0	0	0	0	0	-0.18	-0.26	0	0	0	0	0	0
3/29/2024 22:35	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/29/2024 22:47	12701	MACU_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
3/30/2024 8:15	46801	HEPB_T2	0	0	0	0	0	0	1.16	1.24	0	0	0	0	0	0
3/30/2024 8:27	46203	DANV_T2	0	0	0	0	0	0	-2.23	-2.29	0	0	0	0	0	0
3/30/2024 8:27	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 8:27	46204	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/30/2024 8:28	52402	GRPA_T2	1	1	0	3.5	3.3	-0.2	0	0	0	0	0	0	0	0
3/30/2024 8:28	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 8:28	52404	GRPA_T2	0	0	0	0	0	0	-0.17	-0.12	0	0	0	0	0	0
3/30/2024 8:28	52403	GRPA_T2	0	9	9	0	0.5	0.5	0	0	0	0	0	0	0	0
3/30/2024 8:30	52404	GRPA_T2	0	0	0	0	0	0	-0.17	-0.12	0	0	0	0	0	0
3/30/2024 8:30	52403	GRPA_T2	1	17	16	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
3/30/2024 8:30	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/30/2024 8:30	52402	GRPA_T2	1	1	0	3.3	2.4	-0.9	0	0	0	0	0	0	0	0
3/30/2024 8:30	46801	HEPB_T2	0	0	0	0	0	0	1.24	1.22	0	0	0	0	0	0
3/30/2024 8:33	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 8:35	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 8:36	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 9:16	40101	HUNT_T2	0	0	0	0	0	0	-0.37	-0.46	0	0	0	0	0	0
3/30/2024 9:17	45001	LIME_2	21	15	-6	0.3	0.19	-0.11	0	0	0	0	0	0	0	0
3/30/2024 9:17	45002	LIME_2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/30/2024 9:17	45003	LIME_2	2	2	0	2.35	2.25	-0.1	0	0	1	1	0	1200	1200	0
3/30/2024 9:30	63801	HEMP_T1	28	28	0	0.17	0.22	0.05	0	0	0	0	0	0	0	0
3/30/2024 9:30	63802	HEMP_T1	24	14	-10	0.15	0.19	0.04	0.19	0.1	0	0	0	0	0	0
3/30/2024 9:30	63803	HEMP_T1	43	25	-18	0.16	0.16	0	0	0	0	0	0	0	0	0
3/30/2024 9:30	63804	HEMP_T1	6	5	-1	1.07	1.32	0.25	0	0	0	0	0	0	0	0
3/30/2024 9:31	45001	LIME_2	14	15	1	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
3/30/2024 9:31	45003	LIME_2	2	1	-1	2.25	4.4	2.15	0	0	0	0	0	0	0	0
3/30/2024 9:31	45002	LIME_2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/30/2024 9:34	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/30/2024 9:34	56501	ROCK_T2	5	10	5	1.08	0.39	-0.69	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 9:35	45002	LIME_2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/30/2024 9:35	45003	LIME_2	2	1	-1	2.25	4.4	2.15	0	0	0	0	0	0	0	0
3/30/2024 9:35	56501	ROCK_T2	5	10	5	1.08	0.39	-0.69	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 9:35	45001	LIME_2	14	15	1	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
3/30/2024 9:35	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/30/2024 9:36	56501	ROCK_T2	5	10	5	1.08	0.39	-0.69	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 9:36	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/30/2024 9:38	67402	WAKE_T2	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
3/30/2024 9:38	10801	CHHI_T1	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
3/30/2024 9:39	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/30/2024 9:39	56501	ROCK_T2	5	10	5	1.08	0.39	-0.69	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 9:46	63801	HEMP_T1	28	7	-21	0.22	0.3	0.08	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/30/2024 9:46	63804	HEMP_T1	5	1	-4	1.32	6.4	5.08	0	0	0	0	0	0	0	0
3/30/2024 9:46	63803	HEMP_T1	25	6	-19	0.16	0.18	0.02	0	0	0	0	0	0	0	0
3/30/2024 9:46	63802	HEMP_T1	14	1	-13	0.19	0.1	-0.09	0.1	0.13	0	0	0	0	0	0
3/30/2024 9:48	59402	RFLD_T2	0	0	0	0	0	0	-0.85	-0.82	1	1	0	450	450	0
3/30/2024 9:48	52401	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 9:48	52403	GRPA_T2	5	10	5	0.48	0.36	-0.12	0	0	0	0	0	0	0	0
3/30/2024 9:48	41902	REED_T1	3	15	12	0.9	0.5	-0.4	1.7	1.82	0	0	0	0	0	0
3/30/2024 9:48	52402	GRPA_T2	2	4	2	1.6	1.13	-0.47	-1.03	-1.12	0	0	0	0	0	0
3/30/2024 9:50	56501	ROCK_T2	6	12	6	0.85	0.24	-0.61	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 9:50	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/30/2024 9:52	67605	WARW_T1	5	11	6	0.2	0.25	0.05	-0.93	-0.94	0	0	0	0	0	0
3/30/2024 9:52	67901	WNHO_T2	76	76	0	0.26	0.29	0.03	-0.5	-0.54	0	0	0	0	0	0
3/30/2024 9:53	20403	ASHF_T2	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
3/30/2024 9:53	59102	WALK_T2	73	68	-5	0.4	0.29	-0.11	0	0	0	0	0	0	0	0
3/30/2024 9:53	59101	WALK_T2	0	0	0	0	0	0	1.13	1.27	0	0	0	0	0	0
3/30/2024 9:53	56802	BENV_T2	0	0	0	0	0	0	-1.46	-1.44	0	0	0	0	0	0
3/30/2024 9:54	60801	BUCK_T1	2	2	0	0.15	0.1	-0.05	-0.87	-0.83	1	1	0	600	600	0
3/30/2024 9:54	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/30/2024 9:54	56501	ROCK_T2	6	12	6	0.85	0.24	-0.61	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 9:54	56802	BENV_T2	0	0	0	0	0	0	-1.46	-1.44	0	0	0	0	0	0
3/30/2024 9:55	56802	BENV_T2	0	0	0	0	0	0	-1.46	-1.44	0	0	0	0	0	0
3/30/2024 9:56	56802	BENV_T2	0	0	0	0	0	0	-1.46	-1.44	0	0	0	0	0	0
3/30/2024 10:00	56501	ROCK_T2	10	14	4	0.37	0.28	-0.09	-0.03	-0.03	0	0	0	0	0	0
3/30/2024 10:00	52001	LING_T1	0	1	1	0	0	0	0.19	0.16	0	0	0	0	0	0
3/30/2024 10:00	60101	COCA_T1	3	2	-1	0.2	0.2	0	0.35	0.27	0	0	0	0	0	0
3/30/2024 10:00	53903	HALI_T2	7	7	0	0.81	0.43	-0.38	-0.11	-0.15	0	0	0	0	0	0
3/30/2024 10:00	46002	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/30/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.77	-0.74	1	1	0	1200	1200	0
3/30/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
3/30/2024 10:00	13901	SEID_T1	0	0	0	0	0	0	-0.77	-0.77	1	1	0	1200	1200	0
3/30/2024 10:00	65005	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/30/2024 10:00	57304	MOAL_T2	0	1	1	0	0.1	0.1	-0.55	-0.44	0	0	0	0	0	0
3/30/2024 10:00	58803	COCO_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
3/30/2024 10:00	42903	MIDD_T2	94	106	12	0.46	0.6	0.14	0.11	0.14	0	0	0	0	0	0
3/30/2024 10:00	41902	REED_T1	3	15	12	0.87	0.57	-0.3	1.82	1.84	0	0	0	0	0	0
3/30/2024 10:00	45602	WOOL_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
3/30/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
3/30/2024 10:00	42301	MOWR_T2	1	1	0	4.3	4.4	0.1	0	0	0	0	0	0	0	0
3/30/2024 10:00	65001	NEFF_T2	32	14	-18	0.13	0.14	0.01	-1.33	-1.34	1	1	0	1200	1200	0
3/30/2024 10:00	65004	NEFF_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
3/30/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
3/30/2024 10:00	53902	HALI_T2	3	3	0	2.3	2.47	0.17	0	0	0	0	0	0	0	0
3/30/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	-0.85	-0.84	0	0	0	0	0	0
3/30/2024 10:00	56504	ROCK_T2	1	1	0	0.5	0.2	-0.3	83.96	83.96	0	0	0	0	0	0
3/30/2024 10:00	40101	HUNT_T2	0	1	1	0	0.2	0.2	-0.89	-0.98	0	0	0	0	0	0
3/30/2024 10:00	53901	HALI_T2	4	2	-2	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/30/2024 10:00	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
3/30/2024 10:00	42902	MIDD_T2	194	210	16	0.51	0.5	-0.01	0	0	0	0	0	0	0	0
3/30/2024 10:00	42901	MIDD_T2	291	369	78	0.45	0.47	0.02	0	0	0	0	0	0	0	0
3/30/2024 10:00	64802	MONE_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/30/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
3/30/2024 10:00	64801	MONE_T2	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
3/30/2024 10:00	60801	BUCK_T1	2	1	-1	0.1	0.1	0	-0.87	-0.83	1	1	0	600	600	0
3/30/2024 10:00	57303	MOAL_T2	1	1	0	7.7	7.8	0.1	0	0	0	0	0	0	0	0
3/30/2024 10:00	53501	EVIL_T2	2	3	1	0.7	0.53	-0.17	-0.74	-0.74	0	0	0	0	0	0
3/30/2024 10:00	47101	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.57	-0.57	1	1	0	600	600	0
3/30/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.52	-0.54	2	2	0	1500	1500	0
3/30/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
3/30/2024 10:06	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
3/30/2024 10:06	60701	BREC_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/30/2024 10:07	44302	BEAV_T2	219	249	30	0.45	0.52	0.07	0.24	0.29	0	0	0	0	0	0
3/30/2024 10:07	10801	CHHI_T1	0	3	3	0	0.1	0.1	-0.94	-0.95	1	1	0	900	900	0
3/30/2024 10:07	67901	WNHO_T2	76	64	-12	0.29	0.27	-0.02	-0.54	-0.49	0	0	0	0	0	0
3/30/2024 10:07	48302	ORWI_T2	2	2	0	0.95	1	0.05	-0.65	-0.65	0	0	0	0	0	0
3/30/2024 10:07	44301	BEAV_T2	5	4	-1	0.38	0.57	0.19	0	0	0	0	0	0	0	0
3/30/2024 10:07	43201	MVIL_T2	1	0	-1	0.4	0	-0.4	-0.4	-0.38	0	0	0	0	0	0
3/30/2024 10:07	67902	WNHO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/30/2024 10:07	43202	MVIL_T2	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/30/2024 10:07	40902	JESH_T1	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
3/30/2024 10:07	40901	JESH_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/30/2024 10:08	24105	EHAZ_T1	4	4	0	6.65	5.6	-1.05	-1.98	-1.96	1	1	0	1200	1200	0
3/30/2024 10:08	67605	WARW_T1	11	13	2	0.25	0.32	0.07	-0.95	-0.96	0	0	0	0	0	0
3/30/2024 10:08	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/30/2024 10:08	58003	WCAR_T1	0	1	1	0	0.1	0.1	0.48	0.45	0	0	0	0	0	0
3/30/2024 10:08	59102	WALK_T2	65	44	-21	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
3/30/2024 10:08	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 10:08	24103	EHAZ_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/30/2024 10:08	59101	WALK_T2	0	0	0	0	0	0	1.27	1.24	0	0	0	0	0	0
3/30/2024 10:09	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
3/30/2024 10:09	15001	BLMO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/30/2024 10:10	10801	CHHI_T1	0	3	3	0	0.1	0.1	-0.95	-0.98	1	1	0	900	900	0
3/30/2024 10:10	60801	BUCK_T1	2	1	-1	0.1	0.1	0	-0.83	-0.83	1	1	0	600	600	0
3/30/2024 10:11	15001	BLMO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/30/2024 10:11	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
3/30/2024 10:12	64204	KINZ_T1	2	2	0	0.75	0.35	-0.4	0	0	0	0	0	0	0	0
3/30/2024 10:12	10801	CHHI_T1	0	3	3	0	0.1	0.1	-0.95	-0.98	1	1	0	900	900	0
3/30/2024 10:12	64202	KINZ_T1	5	3	-2	0.56	0.7	0.14	0	0	0	0	0	0	0	0
3/30/2024 10:12	64203	KINZ_T1	1	1	0	0.7	0.9	0.2	-0.03	-0.06	0	0	0	0	0	0
3/30/2024 10:12	64201	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/30/2024 10:12	46203	DANV_T2	65	109	44	0.31	0.49	0.18	-2.34	-2.36	0	0	0	0	0	0
3/30/2024 10:13	52403	GRPA_T2	6	18	12	0.33	0.38	0.05	0	0	0	0	0	0	0	0
3/30/2024 10:13	52401	GRPA_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/30/2024 10:13	64203	KINZ_T1	1	1	0	0.7	0.9	0.2	-0.03	-0.06	0	0	0	0	0	0
3/30/2024 10:13	64201	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/30/2024 10:13	52402	GRPA_T2	4	4	0	1.08	1.05	-0.03	0	0	0	0	0	0	0	0
3/30/2024 10:13	64204	KINZ_T1	2	2	0	0.75	0.35	-0.4	0	0	0	0	0	0	0	0
3/30/2024 10:13	52404	GRPA_T2	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
3/30/2024 10:13	64202	KINZ_T1	5	3	-2	0.56	0.7	0.14	0	0	0	0	0	0	0	0
3/30/2024 10:14	46801	HEPB_T2	0	2	2	0	0.2	0.2	0.58	0.6	0	0	0	0	0	0
3/30/2024 10:15	46803	HEPB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/30/2024 10:15	52402	GRPA_T2	4	5	1	1.05	0.95	-0.1	0	0	0	0	0	0	0	0
3/30/2024 10:15	45001	LIME_2	2	4	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/30/2024 10:15	45003	LIME_2	1	1	0	4.8	4.6	-0.2	0	0	1	1	0	1200	1200	0
3/30/2024 10:15	52403	GRPA_T2	10	21	11	0.35	0.45	0.1	0	0	0	0	0	0	0	0
3/30/2024 10:15	52404	GRPA_T2	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
3/30/2024 10:15	46801	HEPB_T2	0	2	2	0	0.4	0.4	1.16	1.2	0	0	0	0	0	0
3/30/2024 10:15	52401	GRPA_T2	2	3	1	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/30/2024 10:18	52502	PROG_T2	2	2	0	0.25	0.3	0.05	-0.68	-0.63	1	1	0	900	900	0
3/30/2024 10:18	52503	PROG_T2	0	0	0	0	0	0	-0.65	-0.59	1	1	0	900	900	0
3/30/2024 10:19	40602	PIGR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/30/2024 10:19	65004	NEFF_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/30/2024 10:19	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 10:19	65001	NEFF_T2	13	9	-4	0.14	0.16	0.02	-1.34	-1.3	1	1	0	1200	1200	0
3/30/2024 10:19	40603	PIGR_T1	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
3/30/2024 10:19	65005	NEFF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/30/2024 10:19	65003	NEFF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/30/2024 10:20	55001	NEWP_T1	3	2	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/30/2024 10:20	55002	NEWP_T1	4	6	2	0.6	0.57	-0.03	-0.42	-0.44	0	0	0	0	0	0
3/30/2024 10:21	52502	PROG_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
3/30/2024 10:21	52503	PROG_T2	0	0	0	0	0	0	-0.65	-0.59	1	1	0	900	900	0
3/30/2024 10:22	56501	ROCK_T2	8	14	6	0.26	0.3	0.04	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 10:22	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/30/2024 10:30	28403	HART_T2	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
3/30/2024 10:30	52402	GRPA_T2	2	5	3	1.65	0.93	-0.72	-1.03	-1.06	0	0	0	0	0	0
3/30/2024 10:30	52403	GRPA_T2	17	16	-1	0.51	0.7	0.19	0	0	0	0	0	0	0	0
3/30/2024 10:30	52401	GRPA_T2	2	3	1	0.1	0.33	0.23	0	0	0	0	0	0	0	0
3/30/2024 10:31	53902	HALI_T2	3	3	0	2.37	2.6	0.23	0	0	0	0	0	0	0	0
3/30/2024 10:31	53903	HALI_T2	7	17	10	0.39	0.58	0.19	-0.15	-0.14	0	0	0	0	0	0
3/30/2024 10:31	53901	HALI_T2	1	4	3	1.2	0.43	-0.77	0	0	0	0	0	0	0	0
3/30/2024 10:32	53903	HALI_T2	7	17	10	0.39	0.58	0.19	-0.15	-0.14	0	0	0	0	0	0
3/30/2024 10:32	53901	HALI_T2	1	4	3	1.2	0.43	-0.77	0	0	0	0	0	0	0	0
3/30/2024 10:32	53902	HALI_T2	3	3	0	2.37	2.6	0.23	0	0	0	0	0	0	0	0
3/30/2024 10:33	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 10:33	40602	PIGR_T1	1	2	1	0.3	0.45	0.15	-0.68	-0.7	1	1	0	600	600	0
3/30/2024 10:34	40602	PIGR_T1	1	2	1	0.3	0.45	0.15	-1.36	-1.41	2	2	0	1200	1200	0
3/30/2024 10:34	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 10:35	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/30/2024 10:35	59402	RFLD_T2	0	2	2	0	0.15	0.15	-0.82	-0.84	1	1	0	450	450	0
3/30/2024 10:35	26001	WDAM_T1	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
3/30/2024 10:35	66504	SMAN_T2	1	1	0	0.2	0.2	0	-1.15	-1.18	0	0	0	0	0	0
3/30/2024 10:35	26002	WDAM_T1	2	1	-1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
3/30/2024 10:36	59102	WALK_T2	21	59	38	0.22	0.29	0.07	0	0	0	0	0	0	0	0
3/30/2024 10:36	59101	WALK_T2	0	0	0	0	0	0	1.24	1.27	0	0	0	0	0	0
3/30/2024 10:37	45402	WBLO_T2	3	2	-1	0.67	0.3	-0.37	-0.74	-0.75	0	0	0	0	0	0
3/30/2024 10:38	56802	BENV_T2	0	0	0	0	0	0	-1.43	-1.45	0	0	0	0	0	0
3/30/2024 10:40	56802	BENV_T2	0	0	0	0	0	0	-2.87	-2.9	0	0	0	0	0	0
3/30/2024 10:41	56802	BENV_T2	0	0	0	0	0	0	-1.43	-1.45	0	0	0	0	0	0
3/30/2024 10:42	46203	DANV_T2	96	180	84	0.47	0.72	0.25	-2.39	-2.36	0	0	0	0	0	0
3/30/2024 10:42	56802	BENV_T2	0	0	0	0	0	0	-2.87	-2.9	0	0	0	0	0	0
3/30/2024 10:45	40901	JESH_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/30/2024 10:45	42903	MIDD_T2	109	124	15	0.64	0.74	0.1	0	0	0	0	0	0	0	0
3/30/2024 10:45	42902	MIDD_T2	202	234	32	0.55	0.63	0.08	-0.64	-0.65	0	0	0	0	0	0
3/30/2024 10:45	42901	MIDD_T2	373	427	54	0.49	0.58	0.09	0	0	0	0	0	0	0	0
3/30/2024 10:45	40902	JESH_T1	0	0	0	0	0	0	-0.96	-0.97	0	0	0	0	0	0
3/30/2024 10:47	43202	MVIL_T2	1	2	1	0.5	0.3	-0.2	-0.72	-0.68	0	0	0	0	0	0
3/30/2024 10:48	42901	MIDD_T2	373	427	54	0.49	0.58	0.09	0	0	0	0	0	0	0	0
3/30/2024 10:48	42903	MIDD_T2	109	124	15	0.64	0.74	0.1	0	0	0	0	0	0	0	0
3/30/2024 10:48	42902	MIDD_T2	202	234	32	0.55	0.63	0.08	-0.64	-0.65	0	0	0	0	0	0
3/30/2024 10:49	16402	MOPO_T1	1	0	-1	0.2	0	-0.2	-0.07	0.01	0	0	0	0	0	0
3/30/2024 10:50	52502	PROG_T2	2	2	0	0.3	0.4	0.1	-0.65	-0.66	1	1	0	900	900	0
3/30/2024 10:50	27503	WEIS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/30/2024 10:50	27502	WEIS_T2	0	0	0	0	0	0	-0.61	-0.64	0	0	0	0	0	0
3/30/2024 10:51	58402	MORO_T1	0	0	0	0	0	0	-0.61	-0.62	2	2	0	1500	1500	0
3/30/2024 10:51	58401	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/30/2024 10:51	16302	ALPA_T2	0	1	1	0	0.1	0.1	0.65	0.5	0	0	0	0	0	0
3/30/2024 10:52	66703	STRA_T1	0	0	0	0	0	0	-0.24	-0.19	0	0	0	0	0	0
3/30/2024 10:52	56802	BENV_T2	0	1	1	0	1.2	1.2	-1.43	-1.45	0	0	0	0	0	0
3/30/2024 10:52	66701	STRA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/30/2024 10:56	60803	BUCK_T1	0	0	0	0	0	0	-0.53	-0.54	1	1	0	600	600	0
3/30/2024 10:56	60801	BUCK_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/30/2024 10:59	63801	HEMP_T1	50	87	37	0.22	0.22	0	0	0	0	0	0	0	0	0
3/30/2024 10:59	63802	HEMP_T1	7	23	16	0.11	0.17	0.06	0.26	0.17	0	0	0	0	0	0
3/30/2024 10:59	63803	HEMP_T1	41	75	34	0.19	0.22	0.03	0	0	0	0	0	0	0	0
3/30/2024 10:59	63804	HEMP_T1	6	7	1	1.12	1.03	-0.09	0	0	0	0	0	0	0	0
3/30/2024 11:00	66302	MCGO_T2	12	17	5	0.38	0.46	0.08	-0.95	-1.02	0	0	0	0	0	0
3/30/2024 11:00	42902	MIDD_T2	224	249	25	0.63	0.65	0.02	-0.65	-0.65	0	0	0	0	0	0
3/30/2024 11:00	66301	MCGO_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/30/2024 11:00	66303	MCGO_T2	7	8	1	0.39	0.45	0.06	0	0	0	0	0	0	0	0
3/30/2024 11:00	41801	GOCI_T2	14	34	20	0.28	0.19	-0.09	0	0	0	0	0	0	0	0
3/30/2024 11:00	42901	MIDD_T2	416	453	37	0.56	0.63	0.07	0	0	0	0	0	0	0	0
3/30/2024 11:00	42903	MIDD_T2	113	140	27	0.71	0.67	-0.04	0	0	0	0	0	0	0	0
3/30/2024 11:02	66302	MCGO_T2	12	17	5	0.38	0.46	0.08	-0.95	-1.02	0	0	0	0	0	0
3/30/2024 11:02	58402	MORO_T1	0	0	0	0	0	0	-0.62	-0.67	2	2	0	1500	1500	0
3/30/2024 11:02	42901	MIDD_T2	416	453	37	0.56	0.63	0.07	0	0	0	0	0	0	0	0
3/30/2024 11:02	42902	MIDD_T2	224	249	25	0.63	0.65	0.02	-0.65	-0.65	0	0	0	0	0	0
3/30/2024 11:02	66301	MCGO_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/30/2024 11:02	58401	MORO_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/30/2024 11:02	66303	MCGO_T2	7	8	1	0.39	0.45	0.06	0	0	0	0	0	0	0	0
3/30/2024 11:02	42903	MIDD_T2	113	140	27	0.71	0.67	-0.04	0	0	0	0	0	0	0	0
3/30/2024 11:04	65003	NEFF_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
3/30/2024 11:04	65005	NEFF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/30/2024 11:04	65001	NEFF_T2	28	15	-13	0.13	0.14	0.01	-1.31	-1.25	1	1	0	1200	1200	0
3/30/2024 11:04	65004	NEFF_T2	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
3/30/2024 11:05	44601	SALE_T2	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
3/30/2024 11:06	45602	WOOL_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
3/30/2024 11:06	16302	ALPA_T2	1	0	-1	0.1	0	-0.1	0.5	0.53	0	0	0	0	0	0
3/30/2024 11:07	52501	PROG_T1	1	1	0	0.2	0.2	0	0.44	0.38	1	1	0	300	300	0
3/30/2024 11:07	58401	MORO_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/30/2024 11:07	58402	MORO_T1	0	0	0	0	0	0	-0.62	-0.67	2	2	0	1500	1500	0
3/30/2024 11:08	56501	ROCK_T2	14	15	1	0.39	0.36	-0.03	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 11:08	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 11:09	45602	WOOL_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
3/30/2024 11:09	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 11:10	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 11:12	56601	HAMP_T1	4	5	1	0.35	0.24	-0.11	0	0	0	0	0	0	0	0
3/30/2024 11:12	56603	HAMP_T1	0	0	0	0	0	0	-1.24	-1.21	0	0	0	0	0	0
3/30/2024 11:13	56501	ROCK_T2	14	15	1	0.39	0.36	-0.03	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 11:13	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 11:14	45602	WOOL_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
3/30/2024 11:15	64202	KINZ_T1	4	10	6	0.2	0.26	0.06	0	0	0	0	0	0	0	0
3/30/2024 11:15	64204	KINZ_T1	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
3/30/2024 11:15	64201	KINZ_T1	0	6	6	0	0.18	0.18	0.44	0.4	1	1	0	300	300	0
3/30/2024 11:15	64203	KINZ_T1	1	3	2	1.1	0.73	-0.37	0	0	0	0	0	0	0	0
3/30/2024 11:16	42902	MIDD_T2	220	255	35	0.55	0.67	0.12	-0.65	-0.63	0	0	0	0	0	0
3/30/2024 11:16	42903	MIDD_T2	121	138	17	0.71	0.66	-0.05	0	0	0	0	0	0	0	0
3/30/2024 11:16	42901	MIDD_T2	394	456	62	0.55	0.64	0.09	0	0	0	0	0	0	0	0
3/30/2024 11:17	64203	KINZ_T1	1	3	2	1.1	0.73	-0.37	-0.05	0	0	0	0	0	0	0
3/30/2024 11:17	64204	KINZ_T1	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
3/30/2024 11:17	64202	KINZ_T1	4	10	6	0.2	0.26	0.06	0	0	0	0	0	0	0	0
3/30/2024 11:17	64305	LINC_T1	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
3/30/2024 11:17	64201	KINZ_T1	0	6	6	0	0.18	0.18	0	0	0	0	0	0	0	0
3/30/2024 11:17	64303	LINC_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/30/2024 11:18	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 11:19	67204	TEHI_T2	1	2	1	0.2	0.45	0.25	-0.48	-0.6	0	0	0	0	0	0
3/30/2024 11:19	64101	REFR_T1	0	3	3	0	0.23	0.23	-0.88	-0.96	0	0	0	0	0	0
3/30/2024 11:20	45303	WBER_T2	6	10	4	0.45	0.62	0.17	-0.38	-0.38	0	0	0	0	0	0
3/30/2024 11:21	42802	SELI_T1	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
3/30/2024 11:21	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 11:22	45303	WBER_T2	6	10	4	0.45	0.62	0.17	-0.38	-0.38	0	0	0	0	0	0
3/30/2024 11:22	64303	LINC_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/30/2024 11:22	64305	LINC_T1	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
3/30/2024 11:22	42802	SELI_T1	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
3/30/2024 11:24	45602	WOOL_T1	0	1	1	0	0.2	0.2	0.45	0.42	0	0	0	0	0	0
3/30/2024 11:24	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 11:28	63802	HEMP_T1	20	7	-13	0.16	0.23	0.07	0.17	0.2	0	0	0	0	0	0
3/30/2024 11:28	56603	HAMP_T1	0	0	0	0	0	0	-1.21	-1.2	0	0	0	0	0	0
3/30/2024 11:28	56601	HAMP_T1	5	5	0	0.22	0.24	0.02	0	0	0	0	0	0	0	0
3/30/2024 11:28	63804	HEMP_T1	7	7	0	1.04	1.03	-0.01	0	0	0	0	0	0	0	0
3/30/2024 11:28	63801	HEMP_T1	43	56	13	0.27	0.27	0	0	0	0	0	0	0	0	0
3/30/2024 11:28	63803	HEMP_T1	31	62	31	0.22	0.22	0	0	0	0	0	0	0	0	0
3/30/2024 11:29	45702	LIND_T2	1	2	1	0.2	0.25	0.05	-0.56	-0.53	0	0	0	0	0	0
3/30/2024 11:29	45602	WOOL_T1	0	1	1	0	0.2	0.2	0.45	0.42	0	0	0	0	0	0
3/30/2024 11:29	45303	WBER_T2	6	10	4	0.45	0.62	0.17	-0.38	-0.37	0	0	0	0	0	0
3/30/2024 11:32	39601	LNFD_T1	6	4	-2	0.95	0.4	-0.55	0	0	1	1	0	900	900	0
3/30/2024 11:33	64305	LINC_T1	0	0	0	0	0	0	-0.69	-0.78	0	0	0	0	0	0
3/30/2024 11:33	56504	ROCK_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
3/30/2024 11:33	56501	ROCK_T2	12	21	9	0.33	0.34	0.01	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 11:33	64303	LINC_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/30/2024 11:34	64301	LINC_T1	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
3/30/2024 11:34	13901	SEID_T1	0	0	0	0	0	0	-0.82	-0.77	1	1	0	1200	1200	0
3/30/2024 11:34	45003	LIME_2	2	2	0	2.55	2.5	-0.05	0	0	1	1	0	1200	1200	0
3/30/2024 11:34	64801	MONE_T2	1	4	3	0.2	0.28	0.08	-0.39	-0.41	0	0	0	0	0	0
3/30/2024 11:34	64802	MONE_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/30/2024 11:34	45001	LIME_2	31	40	9	0.41	0.47	0.06	0	0	0	0	0	0	0	0
3/30/2024 11:34	64303	LINC_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/30/2024 11:35	56504	ROCK_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
3/30/2024 11:35	56501	ROCK_T2	12	21	9	0.33	0.34	0.01	-0.02	-0.02	0	0	0	0	0	0
3/30/2024 11:36	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 11:37	56501	ROCK_T2	12	21	9	0.33	0.34	0.01	-0.02	-0.02	0	0	0	0	0	0
3/30/2024 11:37	56504	ROCK_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
3/30/2024 11:37	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 11:37	26002	WDAM_T1	6	7	1	0.7	0.77	0.07	0	0	0	0	0	0	0	0
3/30/2024 11:37	26001	WDAM_T1	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0
3/30/2024 11:37	42802	SELI_T1	0	0	0	0	0	0	-0.06	-0.11	0	0	0	0	0	0
3/30/2024 11:37	44301	BEAV_T2	8	9	1	0.4	0.48	0.08	0	0	0	0	0	0	0	0
3/30/2024 11:37	44302	BEAV_T2	332	378	46	0.59	0.62	0.03	0.26	0.26	0	0	0	0	0	0
3/30/2024 11:38	56802	BENV_T2	1	1	0	0.8	1.6	0.8	-1.45	-1.52	0	0	0	0	0	0
3/30/2024 11:38	64305	LINC_T1	0	0	0	0	0	0	-0.78	-0.7	0	0	0	0	0	0
3/30/2024 11:38	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 11:38	64303	LINC_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/30/2024 11:38	44301	BEAV_T2	8	9	1	0.4	0.48	0.08	0	0	0	0	0	0	0	0
3/30/2024 11:38	44302	BEAV_T2	332	378	46	0.59	0.62	0.03	0.26	0.28	0	0	0	0	0	0
3/30/2024 11:39	56501	ROCK_T2	12	21	9	0.33	0.34	0.01	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 11:39	56504	ROCK_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
3/30/2024 11:39	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 11:39	66703	STRA_T1	0	2	2	0	0.5	0.5	-0.25	-0.23	0	0	0	0	0	0
3/30/2024 11:39	66701	STRA_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/30/2024 11:39	56802	BENV_T2	1	1	0	0.8	1.6	0.8	-2.9	-3.04	0	0	0	0	0	0
3/30/2024 11:40	56802	BENV_T2	1	1	0	0.8	1.6	0.8	-1.45	-1.52	0	0	0	0	0	0
3/30/2024 11:40	64101	REFR_T1	2	2	0	0.15	0.35	0.2	-0.98	-0.98	0	0	0	0	0	0
3/30/2024 11:40	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
3/30/2024 11:42	41801	GOCI_T2	33	39	6	0.19	0.23	0.04	0	0	0	0	0	0	0	0
3/30/2024 11:43	40101	HUNT_T2	1	1	0	0.4	0.4	0	-0.58	-0.6	0	0	0	0	0	0
3/30/2024 11:43	28403	HART_T2	0	0	0	0	0	0	-0.97	-0.96	1	1	0	900	900	0
3/30/2024 11:44	64301	LINC_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
3/30/2024 11:44	64802	MONE_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/30/2024 11:44	64303	LINC_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/30/2024 11:44	64305	LINC_T1	0	0	0	0	0	0	-0.78	-0.7	0	0	0	0	0	0
3/30/2024 11:44	64801	MONE_T2	1	4	3	0.2	0.28	0.08	-0.41	-0.39	0	0	0	0	0	0
3/30/2024 11:45	56504	ROCK_T2	1	5	4	0.4	0.43	0.03	0	0	0	0	0	0	0	0
3/30/2024 11:45	56501	ROCK_T2	17	21	4	0.35	0.33	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 11:47	43201	MVIL_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
3/30/2024 11:47	43202	MVIL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
3/30/2024 11:48	64303	LINC_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/30/2024 11:48	64305	LINC_T1	0	1	1	0	0.2	0.2	-0.78	-0.7	0	0	0	0	0	0
3/30/2024 11:49	40603	PIGR_T1	0	1	1	0	0.1	0.1	0.27	0.3	0	0	0	0	0	0
3/30/2024 11:49	40602	PIGR_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/30/2024 11:49	40601	PIGR_T1	2	6	4	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/30/2024 11:50	43202	MVIL_T2	1	1	0	1	0.8	-0.2	-0.7	-0.71	0	0	0	0	0	0
3/30/2024 11:51	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 11:52	67902	WNHO_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
3/30/2024 11:52	56504	ROCK_T2	1	5	4	0.4	0.43	0.03	0	0	0	0	0	0	0	0
3/30/2024 11:52	56501	ROCK_T2	17	21	4	0.35	0.33	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 11:52	67901	WNHO_T2	146	152	6	0.33	0.38	0.05	-0.47	-0.49	0	0	0	0	0	0
3/30/2024 11:53	44302	BEAV_T2	293	442	149	0.52	0.72	0.2	0.28	0.29	0	0	0	0	0	0
3/30/2024 11:53	44301	BEAV_T2	7	11	4	0.39	0.6	0.21	0	0	0	0	0	0	0	0
3/30/2024 11:53	56504	ROCK_T2	1	5	4	0.4	0.43	0.03	0	0	0	0	0	0	0	0
3/30/2024 11:53	56501	ROCK_T2	17	21	4	0.35	0.33	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 11:53	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 11:54	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 11:55	56501	ROCK_T2	17	21	4	0.35	0.33	-0.02	-0.02	-0.02	0	0	0	0	0	0
3/30/2024 11:55	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 11:55	56504	ROCK_T2	1	5	4	0.4	0.43	0.03	0	0	0	0	0	0	0	0
3/30/2024 11:55	10801	CHHI_T1	5	6	1	0.36	0.72	0.36	-0.99	-1.01	1	1	0	900	900	0
3/30/2024 11:56	56504	ROCK_T2	1	5	4	0.4	0.43	0.03	0	0	0	0	0	0	0	0
3/30/2024 11:56	64101	REFR_T1	2	2	0	0.3	0.35	0.05	-0.98	-0.97	0	0	0	0	0	0
3/30/2024 11:56	56501	ROCK_T2	17	21	4	0.35	0.33	-0.02	-0.02	-0.02	0	0	0	0	0	0
3/30/2024 11:56	10801	CHHI_T1	5	6	1	0.36	0.72	0.36	-0.99	-1.01	1	1	0	900	900	0
3/30/2024 11:58	41801	GOCI_T2	39	14	-25	0.23	0.25	0.02	0	0	0	0	0	0	0	0
3/30/2024 11:59	40101	HUNT_T2	1	1	0	0.4	0.2	-0.2	-0.6	-0.58	0	0	0	0	0	0
3/30/2024 11:59	28403	HART_T2	0	0	0	0	0	0	-0.96	-0.97	1	1	0	900	900	0
3/30/2024 11:59	64303	LINC_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/30/2024 11:59	64305	LINC_T1	0	1	1	0	0.2	0.2	-0.7	-0.67	0	0	0	0	0	0
3/30/2024 12:00	56504	ROCK_T2	3	4	1	0.4	0.48	0.08	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/30/2024 12:00	64802	MONE_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/30/2024 12:00	64305	LINC_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/30/2024 12:00	45001	LIME_2	30	34	4	0.36	0.44	0.08	0	0	0	0	0	0	0	0
3/30/2024 12:00	56501	ROCK_T2	21	20	-1	0.3	0.39	0.09	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 12:00	64303	LINC_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/30/2024 12:00	64301	LINC_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
3/30/2024 12:00	64801	MONE_T2	2	2	0	0.3	0.3	0	-0.39	-0.39	0	0	0	0	0	0
3/30/2024 12:00	45003	LIME_2	2	1	-1	2.45	4.9	2.45	0	0	1	1	0	1200	1200	0
3/30/2024 12:04	64303	LINC_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/30/2024 12:04	64305	LINC_T1	0	1	1	0	0.2	0.2	-0.7	-0.67	0	0	0	0	0	0
3/30/2024 12:06	56501	ROCK_T2	21	20	-1	0.3	0.39	0.09	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 12:06	56504	ROCK_T2	3	4	1	0.4	0.48	0.08	0	0	0	0	0	0	0	0
3/30/2024 12:07	56501	ROCK_T2	21	20	-1	0.3	0.39	0.09	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 12:07	56504	ROCK_T2	3	4	1	0.4	0.48	0.08	0	0	0	0	0	0	0	0
3/30/2024 12:08	44301	BEAV_T2	9	14	5	0.48	0.58	0.1	0	0	0	0	0	0	0	0
3/30/2024 12:08	56504	ROCK_T2	3	4	1	0.4	0.48	0.08	0	0	0	0	0	0	0	0
3/30/2024 12:08	56501	ROCK_T2	21	20	-1	0.3	0.39	0.09	-0.02	-0.02	0	0	0	0	0	0
3/30/2024 12:08	44302	BEAV_T2	374	479	105	0.61	0.75	0.14	0.29	0.26	0	0	0	0	0	0
3/30/2024 12:10	56504	ROCK_T2	3	4	1	0.4	0.48	0.08	0	0	0	0	0	0	0	0
3/30/2024 12:10	44302	BEAV_T2	374	479	105	0.61	0.75	0.14	0.29	0.26	0	0	0	0	0	0
3/30/2024 12:10	44301	BEAV_T2	9	14	5	0.48	0.58	0.1	0	0	0	0	0	0	0	0
3/30/2024 12:10	56501	ROCK_T2	21	20	-1	0.3	0.39	0.09	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 12:11	56501	ROCK_T2	21	20	-1	0.3	0.39	0.09	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 12:11	56504	ROCK_T2	3	4	1	0.4	0.48	0.08	0	0	0	0	0	0	0	0
3/30/2024 12:13	41801	GOCI_T2	11	16	5	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
3/30/2024 12:15	64305	LINC_T1	1	1	0	0.2	0.3	0.1	-0.67	-0.67	0	0	0	0	0	0
3/30/2024 12:15	64303	LINC_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
3/30/2024 12:15	28403	HART_T2	0	0	0	0	0	0	-0.97	-0.96	1	1	0	900	900	0
3/30/2024 12:16	64305	LINC_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/30/2024 12:16	56501	ROCK_T2	13	20	7	0.34	0.46	0.12	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 12:16	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 12:16	56504	ROCK_T2	4	4	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
3/30/2024 12:16	64303	LINC_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
3/30/2024 12:16	64301	LINC_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
3/30/2024 12:19	47001	HUGH_T2	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
3/30/2024 12:19	47002	HUGH_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
3/30/2024 12:20	64303	LINC_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
3/30/2024 12:20	40602	PIGR_T1	2	4	2	0.55	0.58	0.03	0	0	0	0	0	0	0	0
3/30/2024 12:20	64305	LINC_T1	1	1	0	0.2	0.3	0.1	-0.67	-0.67	0	0	0	0	0	0
3/30/2024 12:20	40601	PIGR_T1	6	4	-2	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/30/2024 12:20	40603	PIGR_T1	1	2	1	0.1	0.25	0.15	0.32	0.31	0	0	0	0	0	0
3/30/2024 12:21	66701	STRA_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/30/2024 12:21	66703	STRA_T1	2	5	3	0.45	0.32	-0.13	-0.27	-0.23	0	0	0	0	0	0
3/30/2024 12:22	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 12:22	56504	ROCK_T2	4	4	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
3/30/2024 12:22	56501	ROCK_T2	13	20	7	0.34	0.46	0.12	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 12:25	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 12:26	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 12:26	44302	BEAV_T2	434	484	50	0.72	0.77	0.05	0.26	0.25	0	0	0	0	0	0
3/30/2024 12:26	53601	DALM_T2	1	0	-1	0.1	0	-0.1	0.34	0.36	0	0	0	0	0	0
3/30/2024 12:26	44301	BEAV_T2	11	15	4	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
3/30/2024 12:27	56501	ROCK_T2	13	20	7	0.34	0.46	0.12	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 12:27	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 12:27	64101	REFR_T1	0	3	3	0	0.13	0.13	-0.99	-0.98	0	0	0	0	0	0
3/30/2024 12:27	56504	ROCK_T2	4	4	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
3/30/2024 12:27	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 12:29	64204	KINZ_T1	1	2	1	0.7	1	0.3	0	0	0	0	0	0	0	0
3/30/2024 12:29	64201	KINZ_T1	4	10	6	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
3/30/2024 12:29	64202	KINZ_T1	5	15	10	0.26	0.19	-0.07	0	0	0	0	0	0	0	0
3/30/2024 12:29	64203	KINZ_T1	6	5	-1	0.52	0.48	-0.04	-0.07	-0.03	0	0	0	0	0	0
3/30/2024 12:30	40101	HUNT_T2	0	3	3	0	0.3	0.3	-0.61	-0.63	0	0	0	0	0	0
3/30/2024 12:31	64303	LINC_T1	1	1	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
3/30/2024 12:31	45003	LIME_2	1	2	1	4.5	2.4	-2.1	0	0	2	2	0	2400	2400	0
3/30/2024 12:31	64702	LITI_T2	0	0	0	0	0	0	-0.79	-0.84	0	0	0	0	0	0
3/30/2024 12:31	45001	LIME_2	31	34	3	0.42	0.36	-0.06	0	0	0	0	0	0	0	0
3/30/2024 12:31	64305	LINC_T1	0	1	1	0	0.3	0.3	-0.67	-0.66	0	0	0	0	0	0
3/30/2024 12:36	64305	LINC_T1	0	1	1	0	0.3	0.3	-0.67	-0.66	0	0	0	0	0	0
3/30/2024 12:36	64303	LINC_T1	1	1	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
3/30/2024 12:41	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 12:48	43202	MVIL_T2	2	2	0	0.55	0.55	0	-0.71	-0.72	0	0	0	0	0	0
3/30/2024 12:48	43201	MVIL_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
3/30/2024 12:49	14404	SSLA_T1	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
3/30/2024 12:49	14402	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/30/2024 12:49	14403	SSLA_T1	0	2	2	0	0.45	0.45	0.55	0.53	0	0	0	0	0	0
3/30/2024 12:49	14401	SSLA_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
3/30/2024 12:52	44301	BEAV_T2	15	11	-4	0.54	0.6	0.06	0	0	0	0	0	0	0	0
3/30/2024 12:52	44302	BEAV_T2	455	438	-17	0.75	0.71	-0.04	0.25	0.25	0	0	0	0	0	0
3/30/2024 12:53	14401	SSLA_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
3/30/2024 12:53	14403	SSLA_T1	0	2	2	0	0.45	0.45	0.53	0.5	0	0	0	0	0	0
3/30/2024 12:53	14404	SSLA_T1	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
3/30/2024 12:53	14402	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/30/2024 12:55	44302	BEAV_T2	455	438	-17	0.75	0.71	-0.04	0.25	0.26	0	0	0	0	0	0
3/30/2024 12:55	44301	BEAV_T2	15	11	-4	0.54	0.6	0.06	0	0	0	0	0	0	0	0
3/30/2024 12:57	20403	ASHF_T2	0	4	4	0	0.45	0.45	0.12	0.13	0	0	0	0	0	0
3/30/2024 12:57	20401	ASHF_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/30/2024 13:04	14401	SSLA_T1	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/30/2024 13:04	43201	MVIL_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
3/30/2024 13:04	43202	MVIL_T2	1	15	14	0.8	0.23	-0.57	0	0	0	0	0	0	0	0
3/30/2024 13:04	14402	SSLA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/30/2024 13:04	14403	SSLA_T1	2	1	-1	0.45	0.1	-0.35	1.06	1	0	0	0	0	0	0
3/30/2024 13:04	14404	SSLA_T1	1	1	0	5.2	4.5	-0.7	0	0	0	0	0	0	0	0
3/30/2024 13:08	13901	SEID_T1	0	0	0	0	0	0	0.4	0.41	1	0	-1	1200	0	-1200
3/30/2024 13:08	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 13:08	13902	SEID_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/30/2024 13:08	13905	SEID_T1	3	1	-2	0.23	0.6	0.37	0	0	0	0	0	0	0	0
3/30/2024 13:11	21403	KNET_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
3/30/2024 13:31	45001	LIME_2	1	18	17	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/30/2024 13:31	40101	HUNT_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
3/30/2024 13:31	45002	LIME_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 13:31	45003	LIME_2	2	2	0	2.35	2.4	0.05	0	0	0	0	0	0	0	0
3/30/2024 13:32	45002	LIME_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 13:32	45003	LIME_2	2	2	0	2.35	2.4	0.05	0	0	0	0	0	0	0	0
3/30/2024 13:32	45001	LIME_2	1	18	17	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/30/2024 13:33	45001	LIME_2	1	18	17	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/30/2024 13:33	45003	LIME_2	2	2	0	2.35	2.4	0.05	0	0	0	0	0	0	0	0
3/30/2024 13:33	45002	LIME_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 13:35	43202	MVIL_T2	15	16	1	0.23	0.22	-0.01	-0.72	-0.74	0	0	0	0	0	0
3/30/2024 13:37	44301	BEAV_T2	9	10	1	0.58	0.42	-0.16	0	0	0	0	0	0	0	0
3/30/2024 13:37	44302	BEAV_T2	380	327	-53	0.64	0.6	-0.04	0.24	0.26	0	0	0	0	0	0
3/30/2024 13:38	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 13:40	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 13:41	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 13:44	45001	LIME_2	1	18	17	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/30/2024 13:44	40101	HUNT_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
3/30/2024 13:44	45003	LIME_2	2	2	0	2.35	2.4	0.05	0	0	1	1	0	1200	1200	0
3/30/2024 13:45	45003	LIME_2	2	2	0	2.4	2.35	-0.05	0	0	1	1	0	1200	1200	0
3/30/2024 13:45	45001	LIME_2	0	24	24	0	0.18	0.18	0	0	0	0	0	0	0	0
3/30/2024 13:52	56501	ROCK_T2	8	9	1	0.46	0.33	-0.13	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 13:53	67901	WNHO_T2	143	109	-34	0.44	0.36	-0.08	-0.6	-0.58	0	0	0	0	0	0
3/30/2024 13:53	56501	ROCK_T2	8	9	1	0.46	0.33	-0.13	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 13:55	66703	STRA_T1	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
3/30/2024 13:56	56501	ROCK_T2	8	9	1	0.46	0.33	-0.13	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 14:00	56603	HAMP_T1	0	0	0	0	0	0	-1.24	-1.21	0	0	0	0	0	0
3/30/2024 14:01	56501	ROCK_T2	7	7	0	0.27	0.54	0.27	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 14:06	44202	POIN_T2	0	0	0	0	0	0	-1.03	-1.03	1	1	0	1200	1200	0
3/30/2024 14:06	56501	ROCK_T2	7	7	0	0.27	0.54	0.27	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 14:07	46004	BERW_T2	1	0	-1	0.2	0	-0.2	-0.86	-0.86	0	0	0	0	0	0
3/30/2024 14:08	56501	ROCK_T2	7	7	0	0.27	0.54	0.27	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 14:09	67901	WNHO_T2	105	111	6	0.32	0.36	0.04	-0.58	-0.58	0	0	0	0	0	0
3/30/2024 14:09	56501	ROCK_T2	7	7	0	0.27	0.54	0.27	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 14:11	66703	STRA_T1	0	0	0	0	0	0	-0.27	-0.23	0	0	0	0	0	0
3/30/2024 14:12	56501	ROCK_T2	7	7	0	0.27	0.54	0.27	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 14:12	40901	JESH_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/30/2024 14:12	40902	JESH_T1	0	0	0	0	0	0	-0.88	-0.86	0	0	0	0	0	0
3/30/2024 14:15	12701	MACU_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
3/30/2024 14:15	45003	LIME_2	2	2	0	2.25	2.55	0.3	0	0	1	1	0	1200	1200	0
3/30/2024 14:15	45001	LIME_2	23	31	8	0.2	0.36	0.16	0	0	0	0	0	0	0	0
3/30/2024 14:15	40101	HUNT_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
3/30/2024 14:16	40101	HUNT_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
3/30/2024 14:16	12701	MACU_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
3/30/2024 14:16	43201	MVIL_T2	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
3/30/2024 14:16	45003	LIME_2	2	2	0	2.25	2.55	0.3	0	0	2	2	0	2400	2400	0
3/30/2024 14:16	45001	LIME_2	23	31	8	0.2	0.36	0.16	0	0	0	0	0	0	0	0
3/30/2024 14:16	43202	MVIL_T2	7	2	-5	0.19	0.2	0.01	0	0	0	0	0	0	0	0
3/30/2024 14:16	28403	HART_T2	0	0	0	0	0	0	-0.92	-0.91	1	1	0	900	900	0
3/30/2024 14:17	45001	LIME_2	23	31	8	0.2	0.36	0.16	0	0	0	0	0	0	0	0
3/30/2024 14:17	45003	LIME_2	2	2	0	2.25	2.55	0.3	0	0	1	1	0	1200	1200	0
3/30/2024 14:17	64301	LINC_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
3/30/2024 14:18	43202	MVIL_T2	7	2	-5	0.19	0.2	0.01	-0.73	-0.72	0	0	0	0	0	0
3/30/2024 14:21	58402	MORO_T1	0	0	0	0	0	0	-1.39	-1.41	4	4	0	3000	3000	0
3/30/2024 14:21	67402	WAKE_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
3/30/2024 14:22	56501	ROCK_T2	6	7	1	0.37	0.54	0.17	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 14:22	44202	POIN_T2	0	0	0	0	0	0	-1.03	-1.05	1	1	0	1200	1200	0
3/30/2024 14:23	46004	BERW_T2	0	0	0	0	0	0	-0.84	-0.86	0	0	0	0	0	0
3/30/2024 14:23	64101	REFR_T1	0	0	0	0	0	0	-0.96	-0.99	0	0	0	0	0	0
3/30/2024 14:24	20402	ASHF_T2	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
3/30/2024 14:24	45501	DERR_T2	1	1	0	0.1	0.2	0.1	-0.64	-0.64	2	2	0	1800	1800	0
3/30/2024 14:24	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.07	0.09	0	0	0	0	0	0
3/30/2024 14:24	56501	ROCK_T2	6	7	1	0.37	0.54	0.17	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 14:25	46001	BERW_T1	0	0	0	0	0	0	1.14	1.02	0	0	0	0	0	0
3/30/2024 14:25	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 14:25	56501	ROCK_T2	6	7	1	0.37	0.54	0.17	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 14:26	20402	ASHF_T2	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/30/2024 14:26	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 14:26	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.13	0.18	0	0	0	0	0	0
3/30/2024 14:27	56501	ROCK_T2	6	7	1	0.37	0.54	0.17	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 14:27	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 14:27	53601	DALM_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
3/30/2024 14:27	46001	BERW_T1	0	0	0	0	0	0	0.57	0.51	0	0	0	0	0	0
3/30/2024 14:28	53903	HALI_T2	2	2	0	1	1.45	0.45	-0.22	-0.21	0	0	0	0	0	0
3/30/2024 14:28	53902	HALI_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
3/30/2024 14:28	53901	HALI_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/30/2024 14:30	66302	MCGO_T2	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
3/30/2024 14:30	66303	MCGO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 14:30	66301	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 14:31	12701	MACU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 14:31	45003	LIME_2	2	2	0	2.55	2.3	-0.25	0	0	1	1	0	1200	1200	0
3/30/2024 14:31	45001	LIME_2	29	26	-3	0.38	0.24	-0.14	0	0	0	0	0	0	0	0
3/30/2024 14:32	46001	BERW_T1	0	0	0	0	0	0	0.57	0.51	0	0	0	0	0	0
3/30/2024 14:32	53903	HALI_T2	2	2	0	1.45	1.5	0.05	-0.22	-0.21	0	0	0	0	0	0
3/30/2024 14:32	10801	CHHI_T1	2	5	3	0.25	0.24	-0.01	-1.04	-1.04	1	1	0	900	900	0
3/30/2024 14:32	43201	MVIL_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
3/30/2024 14:32	43202	MVIL_T2	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/30/2024 14:32	53901	HALI_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
3/30/2024 14:32	45001	LIME_2	29	26	-3	0.38	0.24	-0.14	0	0	0	0	0	0	0	0
3/30/2024 14:32	12701	MACU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 14:32	45003	LIME_2	2	2	0	2.55	2.3	-0.25	0	0	1	1	0	1200	1200	0
3/30/2024 14:32	53902	HALI_T2	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
3/30/2024 14:34	66302	MCGO_T2	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
3/30/2024 14:34	66301	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 14:34	66303	MCGO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 14:35	66302	MCGO_T2	0	0	0	0	0	0	-1.81	-1.76	0	0	0	0	0	0
3/30/2024 14:35	66303	MCGO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 14:35	64201	KINZ_T1	0	0	0	0	0	0	0.61	0.63	0	0	0	0	0	0
3/30/2024 14:35	66301	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 14:35	64204	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/30/2024 14:36	64204	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/30/2024 14:36	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
3/30/2024 14:36	64203	KINZ_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
3/30/2024 14:37	20402	ASHF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/30/2024 14:37	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
3/30/2024 14:37	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	0.07	0.09	0	0	0	0	0	0
3/30/2024 14:38	56501	ROCK_T2	7	7	0	0.54	0.59	0.05	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 14:38	56802	BENV_T2	0	1	1	0	0.2	0.2	-1.55	-1.51	0	0	0	0	0	0
3/30/2024 14:39	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
3/30/2024 14:39	14802	TREI_T2	1	0	-1	0.2	0	-0.2	0.25	0.24	0	0	0	0	0	0
3/30/2024 14:39	60801	BUCK_T1	9	10	1	0.1	0.13	0.03	-0.89	-0.88	1	1	0	600	600	0
3/30/2024 14:39	56501	ROCK_T2	7	7	0	0.54	0.59	0.05	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 14:39	45602	WOOL_T1	2	2	0	0.5	0.25	-0.25	0.4	0.4	0	0	0	0	0	0
3/30/2024 14:39	59101	WALK_T2	0	0	0	0	0	0	1.21	1.27	0	0	0	0	0	0
3/30/2024 14:39	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.64	-0.64	2	2	0	1800	1800	0
3/30/2024 14:40	26001	WDAM_T1	3	4	1	0.17	0.25	0.08	-0.8	-0.78	0	0	0	0	0	0
3/30/2024 14:40	26002	WDAM_T1	7	6	-1	0.4	0.48	0.08	0	0	0	0	0	0	0	0
3/30/2024 14:40	60801	BUCK_T1	9	10	1	0.1	0.13	0.03	-0.89	-0.88	1	1	0	600	600	0
3/30/2024 14:40	56501	ROCK_T2	7	7	0	0.54	0.59	0.05	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 14:40	46004	BERW_T2	0	0	0	0	0	0	-0.86	-0.82	0	0	0	0	0	0
3/30/2024 14:41	52004	LING_T2	1	1	0	0.6	0.6	0	0.09	0.03	0	0	0	0	0	0
3/30/2024 14:43	52401	GRPA_T2	1	2	1	0.1	0.1	0	-0.62	-0.61	0	0	0	0	0	0
3/30/2024 14:43	10801	CHHI_T1	2	5	3	0.25	0.24	-0.01	-1.04	-1.04	1	1	0	900	900	0
3/30/2024 14:43	52402	GRPA_T2	1	1	0	3.4	4	0.6	0	0	0	0	0	0	0	0
3/30/2024 14:43	52403	GRPA_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/30/2024 14:43	56501	ROCK_T2	7	7	0	0.54	0.59	0.05	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 14:44	45602	WOOL_T1	2	2	0	0.5	0.25	-0.25	0.4	0.4	0	0	0	0	0	0
3/30/2024 14:44	53902	HALI_T2	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
3/30/2024 14:44	53903	HALI_T2	2	2	0	1.45	1.5	0.05	-0.21	-0.21	0	0	0	0	0	0
3/30/2024 14:44	53901	HALI_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
3/30/2024 14:45	63802	HEMP_T1	23	29	6	0.16	0.14	-0.02	0.19	0.12	0	0	0	0	0	0
3/30/2024 14:45	63803	HEMP_T1	87	67	-20	0.18	0.18	0	0	0	0	0	0	0	0	0
3/30/2024 14:45	63804	HEMP_T1	6	5	-1	1.36	1.32	-0.04	0	0	0	0	0	0	0	0
3/30/2024 14:45	60801	BUCK_T1	10	24	14	0.13	0.16	0.03	-0.89	-0.88	1	1	0	600	600	0
3/30/2024 14:45	63801	HEMP_T1	101	75	-26	0.17	0.17	0	0	0	0	0	0	0	0	0
3/30/2024 14:45	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 14:46	64204	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/30/2024 14:46	64203	KINZ_T1	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
3/30/2024 14:47	53901	HALI_T2	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/30/2024 14:47	40101	HUNT_T2	0	0	0	0	0	0	-2.01	-1.95	0	0	0	0	0	0
3/30/2024 14:47	53902	HALI_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
3/30/2024 14:47	43202	MVIL_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/30/2024 14:47	53903	HALI_T2	2	2	0	1.4	1.6	0.2	-0.21	-0.21	0	0	0	0	0	0
3/30/2024 14:47	28403	HART_T2	0	0	0	0	0	0	-0.89	-0.89	1	1	0	900	900	0
3/30/2024 14:47	43201	MVIL_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
3/30/2024 14:49	67204	TEHI_T2	0	0	0	0	0	0	0.12	0.02	0	0	0	0	0	0
3/30/2024 14:49	43202	MVIL_T2	1	3	2	0.1	0.2	0.1	-0.72	-0.74	0	0	0	0	0	0
3/30/2024 14:50	13302	ORVI_T2	3	4	1	0.97	0.2	-0.77	1.35	1.34	0	0	0	0	0	0
3/30/2024 14:51	67901	WNHO_T2	116	135	19	0.33	0.33	0	-0.6	-0.65	0	0	0	0	0	0
3/30/2024 14:51	56501	ROCK_T2	6	8	2	0.38	0.55	0.17	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 14:53	56501	ROCK_T2	6	8	2	0.38	0.55	0.17	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 14:53	13901	SEID_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
3/30/2024 14:53	13905	SEID_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
3/30/2024 14:54	45602	WOOL_T1	2	2	0	0.15	0.25	0.1	0.4	0.39	0	0	0	0	0	0
3/30/2024 14:54	56501	ROCK_T2	6	8	2	0.38	0.55	0.17	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 14:55	46004	BERW_T2	0	1	1	0	0	0	-0.82	-0.82	0	0	0	0	0	0
3/30/2024 14:56	60801	BUCK_T1	10	24	14	0.13	0.16	0.03	-0.88	-0.9	1	1	0	600	600	0
3/30/2024 14:56	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 14:57	40701	FFLD_T1	56	64	8	0.42	0.41	-0.01	0	0	0	0	0	0	0	0
3/30/2024 14:57	40702	FFLD_T1	193	205	12	0.49	0.52	0.03	-1.36	-1.36	1	1	0	1200	1200	0
3/30/2024 14:57	40703	FFLD_T1	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0	0
3/30/2024 14:58	26402	INOR_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/30/2024 14:58	26401	INOR_T1	2	2	0	0.6	0.55	-0.05	0.25	0.28	0	0	0	0	0	0
3/30/2024 14:59	45602	WOOL_T1	2	2	0	0.15	0.25	0.1	0.4	0.39	0	0	0	0	0	0
3/30/2024 14:59	56501	ROCK_T2	6	8	2	0.38	0.55	0.17	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 15:01	60801	BUCK_T1	1	24	23	0.1	0.16	0.06	-0.88	-0.9	1	1	0	600	600	0
3/30/2024 15:01	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 15:02	12701	MACU_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
3/30/2024 15:03	45003	LIME_2	2	2	0	2.3	2.2	-0.1	0	0	3	3	0	3600	3600	0
3/30/2024 15:03	12701	MACU_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
3/30/2024 15:03	45001	LIME_2	4	4	0	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/30/2024 15:04	45001	LIME_2	4	4	0	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/30/2024 15:04	45003	LIME_2	2	2	0	2.3	2.2	-0.1	0	0	1	1	0	1200	1200	0
3/30/2024 15:06	59101	WALK_T2	0	0	0	0	0	0	1.27	1.05	0	0	0	0	0	0
3/30/2024 15:08	59101	WALK_T2	0	0	0	0	0	0	1.05	1.07	0	0	0	0	0	0
3/30/2024 15:09	66703	STRA_T1	0	0	0	0	0	0	-0.29	-0.24	0	0	0	0	0	0
3/30/2024 15:10	56501	ROCK_T2	7	8	1	0.59	0.56	-0.03	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 15:15	56501	ROCK_T2	8	9	1	0.54	0.49	-0.05	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 15:18	40602	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 15:18	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
3/30/2024 15:18	40603	PIGR_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
3/30/2024 15:18	46602	LACR_T1	0	0	0	0	0	0	-1.28	-1.24	0	0	0	0	0	0
3/30/2024 15:19	45003	LIME_2	2	2	0	2.2	2.2	0	0	0	1	1	0	1200	1200	0
3/30/2024 15:19	45001	LIME_2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 15:20	66505	SMAN_T2	0	0	0	0	0	0	0	-0.22	2	2	0	1100	1100	0
3/30/2024 15:20	66502	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 15:22	66302	MCGO_T2	0	3	3	0	0.1	0.1	-0.99	-1.02	0	0	0	0	0	0
3/30/2024 15:22	66301	MCGO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/30/2024 15:25	56501	ROCK_T2	8	9	1	0.54	0.49	-0.05	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 15:29	45001	LIME_2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 15:29	45003	LIME_2	2	2	0	2.2	2.2	0	0	0	1	1	0	1200	1200	0
3/30/2024 15:30	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 15:30	56501	ROCK_T2	8	9	1	0.51	0.48	-0.03	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 15:30	40902	JESH_T1	0	0	0	0	0	0	-0.91	-0.85	0	0	0	0	0	0
3/30/2024 15:41	56501	ROCK_T2	8	9	1	0.51	0.48	-0.03	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 15:46	56501	ROCK_T2	8	8	0	0.53	0.51	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 15:51	56501	ROCK_T2	8	8	0	0.53	0.51	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 15:54	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 15:55	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 15:56	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 15:57	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 15:57	56501	ROCK_T2	8	8	0	0.53	0.51	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 15:58	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 15:59	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 16:06	59101	WALK_T2	0	0	0	0	0	0	1.12	1.25	0	0	0	0	0	0
3/30/2024 16:07	56501	ROCK_T2	7	7	0	0.51	0.23	-0.28	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 16:08	56802	BENV_T2	1	0	-1	0.1	0	-0.1	-1.56	-1.5	0	0	0	0	0	0
3/30/2024 16:09	59101	WALK_T2	0	0	0	0	0	0	1.25	1.27	0	0	0	0	0	0
3/30/2024 16:10	40505	CRES_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
3/30/2024 16:10	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 16:11	40505	CRES_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
3/30/2024 16:11	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 16:12	56501	ROCK_T2	7	7	0	0.51	0.23	-0.28	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 16:12	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 16:13	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 16:14	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 16:15	40505	CRES_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
3/30/2024 16:16	47001	HUGH_T2	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
3/30/2024 16:23	56501	ROCK_T2	7	7	0	0.24	0.23	-0.01	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 16:28	56501	ROCK_T2	7	7	0	0.24	0.23	-0.01	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 16:39	56501	ROCK_T2	7	2	-5	0.23	0.2	-0.03	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 16:40	45501	DERR_T2	0	1	1	0	0	0	-0.69	-0.68	2	2	0	1800	1800	0
3/30/2024 16:41	41801	GOO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 16:44	56501	ROCK_T2	7	2	-5	0.23	0.2	-0.03	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 16:59	53601	DALM_T2	0	1	1	0	0.1	0.1	0.37	0.31	0	0	0	0	0	0
3/30/2024 19:25	59402	RFLD_T2	0	0	0	0	0	0	-0.84	-0.84	1	1	0	450	450	0
3/30/2024 19:47	53601	DALM_T2	0	1	1	0	0.1	0.1	0.37	0.37	0	0	0	0	0	0
3/30/2024 20:19	46801	HEPB_T2	1	2	1	0.1	0.5	0.4	0.59	0.59	0	0	0	0	0	0
3/30/2024 20:21	52502	PROG_T2	0	0	0	0	0	0	-0.7	-0.69	1	1	0	900	900	0
3/30/2024 20:25	65001	NEFF_T2	0	0	0	0	0	0	-1.43	-1.4	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/30/2024 20:49	59101	WALK_T2	0	0	0	0	0	0	0.86	0.89	1	1	0	600	600	0
3/30/2024 20:50	59101	WALK_T2	0	0	0	0	0	0	0.86	0.89	1	1	0	600	600	0
3/30/2024 20:51	45402	WBLO_T2	1	1	0	0.7	0.8	0.1	-0.8	-0.83	0	0	0	0	0	0
3/30/2024 20:52	46004	BERW_T2	0	1	1	0	0	0	-0.88	-0.89	0	0	0	0	0	0
3/30/2024 20:52	59101	WALK_T2	0	0	0	0	0	0	1.72	1.77	2	2	0	1200	1200	0
3/30/2024 20:54	59101	WALK_T2	0	0	0	0	0	0	0.89	0.81	1	1	0	600	600	0
3/30/2024 20:54	21403	EXET_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
3/30/2024 20:54	52502	PROG_T2	0	0	0	0	0	0	-0.69	0.26	1	1	0	900	900	0
3/30/2024 20:54	52402	GRPA_T2	1	3	2	2.3	1.1	-1.2	0	0	0	0	0	0	0	0
3/30/2024 20:54	52403	GRPA_T2	4	6	2	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
3/30/2024 20:54	52404	GRPA_T2	0	1	1	0	0	0	-0.19	-0.16	0	0	0	0	0	0
3/30/2024 20:55	52402	GRPA_T2	1	3	2	2.3	1.1	-1.2	0	0	0	0	0	0	0	0
3/30/2024 20:55	52403	GRPA_T2	4	6	2	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
3/30/2024 20:55	52404	GRPA_T2	0	1	1	0	0	0	-0.19	-0.16	0	0	0	0	0	0
3/30/2024 20:56	52402	GRPA_T2	1	3	2	2.3	1.1	-1.2	0	0	0	0	0	0	0	0
3/30/2024 20:56	52403	GRPA_T2	4	6	2	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
3/30/2024 20:56	52401	GRPA_T2	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
3/30/2024 20:56	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 20:57	45303	WBER_T2	8	8	0	0.58	0.69	0.11	-0.37	-0.37	0	0	0	0	0	0
3/30/2024 20:58	52503	PROG_T2	0	0	0	0	0	0	-0.73	-0.73	1	1	0	900	900	0
3/30/2024 20:58	46001	BERW_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
3/30/2024 20:59	40505	CRES_T1	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
3/30/2024 20:59	27502	WEIS_T2	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
3/30/2024 21:00	40505	CRES_T1	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
3/30/2024 21:00	28403	HART_T2	0	0	0	0	0	0	-0.85	-0.86	1	1	0	900	900	0
3/30/2024 21:00	40501	CRES_T2	7	7	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/30/2024 21:00	45001	LIME_2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/30/2024 21:00	45003	LIME_2	2	2	0	1.9	2.05	0.15	0	0	1	1	0	1200	1200	0
3/30/2024 21:00	55002	NEWP_T1	1	4	3	0.2	0.28	0.08	-0.54	-0.55	0	0	0	0	0	0
3/30/2024 21:00	40502	CRES_T2	15	21	6	0.26	0.31	0.05	-0.03	-0.01	0	0	0	0	0	0
3/30/2024 21:00	56501	ROCK_T2	2	7	5	0.45	0.21	-0.24	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 21:01	40501	CRES_T2	7	7	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/30/2024 21:01	56802	BENV_T2	0	0	0	0	0	0	-1.46	-1.49	0	0	0	0	0	0
3/30/2024 21:01	40502	CRES_T2	15	21	6	0.26	0.31	0.05	-0.03	-0.01	0	0	0	0	0	0
3/30/2024 21:02	46801	HEPB_T2	2	4	2	0.5	0.5	0	0.56	0.56	0	0	0	0	0	0
3/30/2024 21:02	56802	BENV_T2	0	0	0	0	0	0	-1.46	-1.49	0	0	0	0	0	0
3/30/2024 21:02	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 21:02	56501	ROCK_T2	2	7	5	0.45	0.21	-0.24	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 21:03	40501	CRES_T2	7	7	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/30/2024 21:03	40505	CRES_T1	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
3/30/2024 21:03	40502	CRES_T2	15	21	6	0.26	0.31	0.05	-0.03	-0.01	0	0	0	0	0	0
3/30/2024 21:03	40602	PIGR_T1	1	1	0	0.6	0.4	-0.2	-0.73	-0.74	1	1	0	600	600	0
3/30/2024 21:03	56501	ROCK_T2	2	7	5	0.45	0.21	-0.24	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 21:04	52503	PROG_T2	0	0	0	0	0	0	-0.73	-0.73	1	1	0	900	900	0
3/30/2024 21:04	16402	MOPO_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
3/30/2024 21:04	56501	ROCK_T2	2	7	5	0.45	0.21	-0.24	-0.01	-0.01	0	0	0	0	0	0
3/30/2024 21:04	56802	BENV_T2	0	0	0	0	0	0	-1.46	-1.49	0	0	0	0	0	0
3/30/2024 21:04	56603	HAMP_T1	0	0	0	0	0	0	-1.27	-1.25	0	0	0	0	0	0
3/30/2024 21:04	42802	SELI_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
3/30/2024 21:04	40502	CRES_T2	15	21	6	0.26	0.31	0.05	-0.06	-0.02	0	0	0	0	0	0
3/30/2024 21:04	46001	BERW_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
3/30/2024 21:04	40501	CRES_T2	7	7	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/30/2024 21:05	45602	WOOL_T1	0	1	1	0	0.4	0.4	0.42	0.42	0	0	0	0	0	0
3/30/2024 21:05	52402	GRPA_T2	3	3	0	0.87	1.5	0.63	-1.03	-1.05	0	0	0	0	0	0
3/30/2024 21:05	20403	ASHF_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
3/30/2024 21:05	40502	CRES_T2	15	21	6	0.26	0.31	0.05	-0.09	-0.03	0	0	0	0	0	0
3/30/2024 21:05	45003	LIME_2	2	2	0	1.9	2.05	0.15	0	0	1	1	0	1200	1200	0
3/30/2024 21:05	20402	ASHF_T2	6	6	0	1.65	0	-1.65	0	0	0	0	0	0	0	0
3/30/2024 21:05	40501	CRES_T2	7	7	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/30/2024 21:05	52403	GRPA_T2	3	4	1	0.23	0	-0.23	0	0	0	0	0	0	0	0
3/30/2024 21:05	58402	MORO_T1	0	0	0	0	0	0	-0.6	-0.66	2	2	0	1500	1500	0
3/30/2024 21:05	45001	LIME_2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/30/2024 21:05	56802	BENV_T2	0	0	0	0	0	0	-2.92	-2.97	0	0	0	0	0	0
3/30/2024 21:05	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 21:06	58402	MORO_T1	0	0	0	0	0	0	-0.6	-0.66	2	2	0	1500	1500	0
3/30/2024 21:06	12701	MACU_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
3/30/2024 21:06	40501	CRES_T2	7	7	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/30/2024 21:06	40502	CRES_T2	15	21	6	0.26	0.31	0.05	-0.12	-0.04	0	0	0	0	0	0
3/30/2024 21:06	56802	BENV_T2	0	0	0	0	0	0	-1.46	-1.49	0	0	0	0	0	0
3/30/2024 21:06	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 21:06	10801	CHHI_T1	0	0	0	0	0	0	-1.02	-1	1	1	0	900	900	0
3/30/2024 21:07	40501	CRES_T2	7	7	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/30/2024 21:07	14404	SSLA_T1	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
3/30/2024 21:07	56802	BENV_T2	0	0	0	0	0	0	-1.46	-1.49	0	0	0	0	0	0
3/30/2024 21:07	40502	CRES_T2	15	21	6	0.26	0.31	0.05	-0.03	-0.01	0	0	0	0	0	0
3/30/2024 21:07	14403	SSLA_T1	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
3/30/2024 21:07	13302	ORVI_T2	0	0	0	0	0	0	1.19	1.3	0	0	0	0	0	0
3/30/2024 21:08	45003	LIME_2	2	2	0	1.9	2.05	0.15	0	0	0	0	0	0	0	0
3/30/2024 21:08	40502	CRES_T2	15	21	6	0.26	0.31	0.05	-0.01	-0.04	0	0	0	0	0	0
3/30/2024 21:08	40501	CRES_T2	7	7	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/30/2024 21:08	45002	LIME_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 21:08	45001	LIME_2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/30/2024 21:09	65001	NEFF_T2	0	9	9	0	0.11	0.11	-1.46	-1.45	1	1	0	1200	1200	0
3/30/2024 21:09	45501	DERR_T2	0	0	0	0	0	0	-0.48	-0.44	2	2	0	1800	1800	0
3/30/2024 21:09	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 21:09	46602	LACR_T1	0	0	0	0	0	0	-1.22	-1.19	0	0	0	0	0	0
3/30/2024 21:09	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/30/2024 21:10	12701	MACU_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
3/30/2024 21:10	45003	LIME_2	2	2	0	1.9	2.05	0.15	0	0	1	1	0	1200	1200	0
3/30/2024 21:10	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 21:10	46801	HEPB_T2	2	4	2	0.5	0.5	0	0.56	0.56	0	0	0	0	0	0
3/30/2024 21:10	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 21:10	52501	PROG_T1	0	0	0	0	0	0	0.29	0.31	1	1	0	300	300	0
3/30/2024 21:10	57304	MOAL_T2	0	1	1	0	0	0	-0.54	-0.18	0	0	0	0	0	0
3/30/2024 21:10	45001	LIME_2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/30/2024 21:10	57303	MOAL_T2	1	1	0	8.1	7.9	-0.2	0	0	0	0	0	0	0	0
3/30/2024 21:11	40902	JESH_T1	0	0	0	0	0	0	-0.89	-0.86	0	0	0	0	0	0
3/30/2024 21:11	45001	LIME_2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/30/2024 21:11	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 21:11	45003	LIME_2	2	2	0	1.9	2.05	0.15	0	0	1	1	0	1200	1200	0
3/30/2024 21:11	26401	INOR_T1	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
3/30/2024 21:12	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 21:12	64101	REFR_T1	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
3/30/2024 21:12	45702	LIND_T2	0	1	1	0	0.1	0.1	-0.54	-0.52	0	0	0	0	0	0
3/30/2024 21:12	14404	SSLA_T1	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
3/30/2024 21:12	14403	SSLA_T1	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
3/30/2024 21:13	14802	TREI_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
3/30/2024 21:13	45501	DERR_T2	0	0	0	0	0	0	-0.48	-0.44	2	2	0	1800	1800	0
3/30/2024 21:13	20403	ASHF_T2	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
3/30/2024 21:13	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 21:13	46004	BERW_T2	0	1	1	0	0	0	-0.88	-0.9	0	0	0	0	0	0
3/30/2024 21:13	20402	ASHF_T2	6	6	0	1.65	0	-1.65	0	0	0	0	0	0	0	0
3/30/2024 21:14	52004	LING_T2	1	1	0	0.7	0.4	-0.3	0.1	0.1	0	0	0	0	0	0
3/30/2024 21:14	44601	SALE_T2	0	0	0	0	0	0	-0.13	-0.1	0	0	0	0	0	0
3/30/2024 21:14	67605	WARW_T1	1	12	11	0.3	0.29	-0.01	-0.99	-1	0	0	0	0	0	0
3/30/2024 21:15	40101	HUNT_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
3/30/2024 21:15	42802	SELI_T1	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
3/30/2024 21:15	45003	LIME_2	2	2	0	1.85	2.15	0.3	0	0	0	0	0	0	0	0
3/30/2024 21:15	63804	HEMP_T1	1	4	3	5.8	1.45	-4.35	0	0	0	0	0	0	0	0
3/30/2024 21:15	40701	FFLD_T1	27	39	12	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
3/30/2024 21:15	42901	MIDD_T2	451	512	61	0.58	0.71	0.13	0	0	0	0	0	0	0	0
3/30/2024 21:15	47001	HUGH_T2	0	0	0	0	0	0	-0.87	-0.92	0	0	0	0	0	0
3/30/2024 21:15	63802	HEMP_T1	0	0	0	0	0	0	0.14	0.08	0	0	0	0	0	0
3/30/2024 21:15	63803	HEMP_T1	0	19	19	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 21:15	42902	MIDD_T2	221	264	43	0.63	0.71	0.08	-0.67	-0.71	0	0	0	0	0	0
3/30/2024 21:15	45001	LIME_2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 21:15	40702	FFLD_T1	161	176	15	0.31	0.43	0.12	-1.36	-1.38	1	1	0	1200	1200	0
3/30/2024 21:15	40602	PIGR_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/30/2024 21:15	47002	HUGH_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 21:15	20403	ASHF_T2	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
3/30/2024 21:15	40603	PIGR_T1	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
3/30/2024 21:15	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 21:15	42903	MIDD_T2	109	132	23	0.44	0.47	0.03	0	0	0	0	0	0	0	0
3/30/2024 21:15	40703	FFLD_T1	4	4	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
3/30/2024 21:15	45002	LIME_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 21:15	20402	ASHF_T2	6	0	-6	0.27	0	-0.27	0	0	0	0	0	0	0	0
3/30/2024 21:15	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 21:16	53901	HALI_T2	1	4	3	1	0.48	-0.52	0	0	0	0	0	0	0	0
3/30/2024 21:16	46203	DANV_T2	104	102	-2	0.53	0.47	-0.06	-2.37	-2.44	0	0	0	0	0	0
3/30/2024 21:16	60803	BUCK_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 21:16	60801	BUCK_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
3/30/2024 21:16	43201	MVIL_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
3/30/2024 21:16	42902	MIDD_T2	221	264	43	0.63	0.71	0.08	-0.67	-0.71	0	0	0	0	0	0
3/30/2024 21:16	42903	MIDD_T2	109	132	23	0.44	0.47	0.03	0	0	0	0	0	0	0	0
3/30/2024 21:16	53902	HALI_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
3/30/2024 21:16	42901	MIDD_T2	451	512	61	0.58	0.71	0.13	0	0	0	0	0	0	0	0
3/30/2024 21:16	53903	HALI_T2	2	2	0	1.4	1.8	0.4	-0.2	-0.21	0	0	0	0	0	0
3/30/2024 21:16	64301	LINC_T1	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
3/30/2024 21:16	64702	LITI_T2	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
3/30/2024 21:16	66504	SMAN_T2	0	0	0	0	0	0	-1.37	-1.49	0	0	0	0	0	0
3/30/2024 21:16	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 21:16	66505	SMAN_T2	3	3	0	0.93	1.2	0.27	0	0	0	0	0	0	0	0
3/30/2024 21:16	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 21:17	66505	SMAN_T2	3	3	0	0.93	1.2	0.27	-0.6	-0.61	2	2	0	1100	1100	0
3/30/2024 21:17	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 21:17	53902	HALI_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
3/30/2024 21:17	53901	HALI_T2	1	4	3	1	0.48	-0.52	0	0	0	0	0	0	0	0
3/30/2024 21:17	45303	WBER_T2	7	8	1	0.69	0.8	0.11	-0.74	-0.84	0	0	0	0	0	0
3/30/2024 21:17	13901	SEID_T1	0	0	0	0	0	0	-0.9	-0.91	1	1	0	1200	1200	0
3/30/2024 21:17	44202	POIN_T2	0	0	0	0	0	0	-1.04	-1.05	1	1	0	1200	1200	0
3/30/2024 21:17	53903	HALI_T2	2	2	0	1.4	1.8	0.4	-0.2	-0.21	0	0	0	0	0	0
3/30/2024 21:17	45301	WBER_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 21:18	42902	MIDD_T2	221	264	43	0.63	0.71	0.08	-0.67	-0.71	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/30/2024 21:18	42903	MIDD_T2	109	132	23	0.44	0.47	0.03	0	0	0	0	0	0	0	0
3/30/2024 21:18	44302	BEAV_T2	428	487	59	0.69	0.8	0.11	0.28	0.28	0	0	0	0	0	0
3/30/2024 21:18	42201	SHEN_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
3/30/2024 21:18	42901	MIDD_T2	451	512	61	0.58	0.71	0.13	0	0	0	0	0	0	0	0
3/30/2024 21:18	44301	BEAV_T2	13	14	1	0.69	0.85	0.16	0	0	0	0	0	0	0	0
3/30/2024 21:19	64202	KINZ_T1	2	8	6	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/30/2024 21:19	66302	MCGO_T2	0	0	0	0	0	0	-1.82	-1.78	0	0	0	0	0	0
3/30/2024 21:19	26001	WDAM_T1	0	0	0	0	0	0	-0.82	-0.82	0	0	0	0	0	0
3/30/2024 21:19	26002	WDAM_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/30/2024 21:19	64204	KINZ_T1	1	4	3	1.2	0.48	-0.72	0	0	0	0	0	0	0	0
3/30/2024 21:19	66303	MCGO_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/30/2024 21:19	46203	DANV_T2	104	102	-2	0.53	0.47	-0.06	-2.37	-2.44	0	0	0	0	0	0
3/30/2024 21:19	46004	BERW_T2	1	0	-1	0.2	0	-0.2	-0.88	-0.9	0	0	0	0	0	0
3/30/2024 21:19	64201	KINZ_T1	4	7	3	0.23	0.34	0.11	0	0	0	0	0	0	0	0
3/30/2024 21:19	64203	KINZ_T1	0	0	0	0	0	0	-0.13	-0.05	0	0	0	0	0	0
3/30/2024 21:20	64204	KINZ_T1	1	4	3	1.2	0.48	-0.72	0	0	0	0	0	0	0	0
3/30/2024 21:20	64203	KINZ_T1	0	0	0	0	0	0	-0.13	-0.05	0	0	0	0	0	0
3/30/2024 21:20	40505	CRES_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
3/30/2024 21:20	64202	KINZ_T1	2	8	6	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/30/2024 21:20	42901	MIDD_T2	451	512	61	0.58	0.71	0.13	0	0	0	0	0	0	0	0
3/30/2024 21:20	42903	MIDD_T2	109	132	23	0.44	0.47	0.03	0	0	0	0	0	0	0	0
3/30/2024 21:20	16302	ALPA_T2	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
3/30/2024 21:20	42902	MIDD_T2	221	264	43	0.63	0.71	0.08	-0.67	-0.71	0	0	0	0	0	0
3/30/2024 21:20	40101	HUNT_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
3/30/2024 21:20	64201	KINZ_T1	4	7	3	0.23	0.34	0.11	0	0	0	0	0	0	0	0
3/30/2024 21:21	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 21:21	67402	WAKE_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
3/30/2024 21:22	43202	MVIL_T2	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
3/30/2024 21:22	67204	TEHI_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
3/30/2024 21:23	67204	TEHI_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
3/30/2024 21:23	41902	REED_T1	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
3/30/2024 21:24	66303	MCGO_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/30/2024 21:24	64201	KINZ_T1	4	7	3	0.23	0.34	0.11	0.34	0.34	1	1	0	300	300	0
3/30/2024 21:24	64204	KINZ_T1	1	4	3	1.2	0.48	-0.72	0	0	0	0	0	0	0	0
3/30/2024 21:24	64202	KINZ_T1	2	8	6	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/30/2024 21:24	66302	MCGO_T2	0	0	0	0	0	0	-1.78	-1.75	0	0	0	0	0	0
3/30/2024 21:24	10801	CHHI_T1	0	0	0	0	0	0	-1.02	-1.02	1	1	0	900	900	0
3/30/2024 21:25	40602	PIGR_T1	1	1	0	0.5	0.4	-0.1	-1.54	-1.56	2	2	0	1200	1200	0
3/30/2024 21:25	42902	MIDD_T2	221	264	43	0.63	0.71	0.08	-0.71	-0.66	0	0	0	0	0	0
3/30/2024 21:25	42901	MIDD_T2	451	512	61	0.58	0.71	0.13	0	0	0	0	0	0	0	0
3/30/2024 21:25	42903	MIDD_T2	109	132	23	0.44	0.47	0.03	0	0	0	0	0	0	0	0
3/30/2024 21:26	41902	REED_T1	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
3/30/2024 21:27	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 21:27	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.07	0	0	0	0	0	0
3/30/2024 21:28	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2024 21:30	67901	WNHO_T2	97	153	56	0.26	0.43	0.17	-0.64	-0.61	0	0	0	0	0	0
3/30/2024 21:31	40101	HUNT_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
3/30/2024 21:32	66703	STRA_T1	1	2	1	0	0.4	0.4	-0.47	-0.49	0	0	0	0	0	0
3/30/2024 21:33	60803	BUCK_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 21:33	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
3/30/2024 21:49	60803	BUCK_T1	2	4	2	0.1	0.13	0.03	-1.24	-1.24	1	1	0	600	600	0
3/30/2024 22:35	63802	HEMP_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
3/30/2024 22:35	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/30/2024 22:35	63804	HEMP_T1	1	1	0	5.9	6.3	0.4	0	0	0	0	0	0	0	0
3/30/2024 22:35	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/31/2024 8:13	46801	HEPB_T2	2	0	-2	0.25	0	-0.25	0.59	0.56	0	0	0	0	0	0
3/31/2024 8:14	46801	HEPB_T2	2	0	-2	0.25	0	-0.25	0.59	0.56	0	0	0	0	0	0
3/31/2024 8:54	26001	WDAM_T1	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
3/31/2024 8:57	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 9:05	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
3/31/2024 9:09	59101	WALK_T2	0	0	0	0	0	0	1.25	1.36	0	0	0	0	0	0
3/31/2024 9:14	64201	KINZ_T1	12	15	3	0.42	0.41	-0.01	0	0	0	0	0	0	0	0
3/31/2024 9:14	64202	KINZ_T1	24	37	13	0.31	0.34	0.03	0	0	0	0	0	0	0	0
3/31/2024 9:14	64203	KINZ_T1	27	69	42	0.16	0.2	0.04	-0.18	-0.15	0	0	0	0	0	0
3/31/2024 9:14	64204	KINZ_T1	21	25	4	0.3	0.31	0.01	0	0	0	0	0	0	0	0
3/31/2024 9:33	56501	ROCK_T2	1	1	0	0.5	0.2	-0.3	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 9:34	56501	ROCK_T2	1	1	0	0.5	0.2	-0.3	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 9:35	67605	WARW_T1	13	14	1	0.55	0.58	0.03	-1.23	-1.22	0	0	0	0	0	0
3/31/2024 9:36	59101	WALK_T2	0	0	0	0	0	0	1.36	1.34	0	0	0	0	0	0
3/31/2024 9:37	56501	ROCK_T2	1	1	0	0.5	0.2	-0.3	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 9:41	52402	GRPA_T2	1	1	0	2	2.3	0.3	-1.14	-1.1	0	0	0	0	0	0
3/31/2024 9:41	52403	GRPA_T2	12	20	8	0.76	0.61	-0.15	0	0	0	0	0	0	0	0
3/31/2024 9:43	56501	ROCK_T2	1	1	0	0.5	0.2	-0.3	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 9:47	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 9:48	56501	ROCK_T2	1	2	1	0.2	0.15	-0.05	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 9:48	43202	MVIL_T2	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
3/31/2024 9:48	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 9:48	41902	REED_T1	3	30	27	0.73	0.56	-0.17	0.84	0.92	0	0	0	0	0	0
3/31/2024 9:50	67901	WNHO_T2	112	109	-3	0.39	0.37	-0.02	-0.68	-0.61	0	0	0	0	0	0
3/31/2024 9:50	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
3/31/2024 9:51	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 9:52	10801	CHHI_T1	0	1	1	0	0	0	-0.97	-0.99	1	1	0	900	900	0
3/31/2024 9:52	46203	DANV_T2	20	1	-19	0.16	0.1	-0.06	-2.27	-2.29	0	0	0	0	0	0
3/31/2024 9:52	41902	REED_T1	3	30	27	0.73	0.56	-0.17	0.84	0.92	0	0	0	0	0	0
3/31/2024 9:53	56501	ROCK_T2	1	2	1	0.2	0.15	-0.05	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 9:57	63804	HEMP_T1	6	5	-1	1.1	1.28	0.18	0	0	0	0	0	0	0	0
3/31/2024 9:57	52403	GRPA_T2	19	11	-8	0.51	0.78	0.27	0	0	0	0	0	0	0	0
3/31/2024 9:57	52402	GRPA_T2	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
3/31/2024 9:57	63803	HEMP_T1	41	35	-6	0.15	0.16	0.01	0	0	0	0	0	0	0	0
3/31/2024 9:57	52404	GRPA_T2	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
3/31/2024 9:57	63802	HEMP_T1	15	47	32	0.13	0.13	0	0.07	0.15	0	0	0	0	0	0
3/31/2024 9:57	63801	HEMP_T1	46	40	-6	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
3/31/2024 9:58	47001	HUGH_T2	0	0	0	0	0	0	-1.81	-1.78	1	1	0	900	900	0
3/31/2024 9:59	63801	HEMP_T1	46	40	-6	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
3/31/2024 9:59	63802	HEMP_T1	15	47	32	0.13	0.13	0	0.07	0.15	0	0	0	0	0	0
3/31/2024 9:59	63803	HEMP_T1	41	35	-6	0.15	0.16	0.01	0	0	0	0	0	0	0	0
3/31/2024 9:59	63804	HEMP_T1	6	5	-1	1.1	1.28	0.18	0	0	0	0	0	0	0	0
3/31/2024 10:00	65001	NEFF_T2	2	4	2	0.1	0.13	0.03	-1.44	-1.45	1	1	0	1200	1200	0
3/31/2024 10:00	10801	CHHI_T1	0	1	1	0	0.4	0.4	-0.99	-0.98	1	1	0	900	900	0
3/31/2024 10:00	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/31/2024 10:00	56501	ROCK_T2	1	2	1	0.2	0.55	0.35	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 10:00	53501	EVIL_T2	2	2	0	0.6	0.75	0.15	-0.89	-0.83	0	0	0	0	0	0
3/31/2024 10:00	40201	BEGA_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/31/2024 10:00	40602	PIGR_T1	1	1	0	1	0.8	-0.2	-0.72	-0.7	1	1	0	600	600	0
3/31/2024 10:00	58803	COCO_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/31/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
3/31/2024 10:00	40603	PIGR_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 10:00	45602	WOOL_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
3/31/2024 10:00	45601	WOOL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/31/2024 10:00	24102	EHAZ_T1	0	6	6	0	0.63	0.63	0	0	0	0	0	0	0	0
3/31/2024 10:00	57304	MOAL_T2	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
3/31/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.8	-0.81	1	1	0	1200	1200	0
3/31/2024 10:00	57303	MOAL_T2	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
3/31/2024 10:00	43201	MVIL_T2	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
3/31/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
3/31/2024 10:00	60101	COCA_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
3/31/2024 10:00	48302	ORWI_T2	2	2	0	0.2	0.3	0.1	-0.03	-0.03	0	0	0	0	0	0
3/31/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.61	-0.58	1	1	0	600	600	0
3/31/2024 10:00	52001	LING_T1	0	0	0	0	0	0	-1.08	-1.11	0	0	0	0	0	0
3/31/2024 10:00	62607	ENGL_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/31/2024 10:00	42901	MIDD_T2	94	117	23	0.29	0.25	-0.04	0	0	0	0	0	0	0	0
3/31/2024 10:00	47101	MARL_T1	1	2	1	0.9	0	-0.9	0	0	0	0	0	0	0	0
3/31/2024 10:00	41902	REED_T1	7	28	21	0.56	0	-0.56	1.84	1.84	0	0	0	0	0	0
3/31/2024 10:00	60801	BUCK_T1	2	1	-1	0.1	0.1	0	-0.19	-0.18	0	0	0	0	0	0
3/31/2024 10:00	42902	MIDD_T2	66	58	-8	0.24	0.27	0.03	0	0	0	0	0	0	0	0
3/31/2024 10:00	24105	EHAZ_T1	4	4	0	6.15	6.08	-0.07	-2.02	-2.01	1	1	0	1200	1200	0
3/31/2024 10:00	60803	BUCK_T1	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/31/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	0.35	0.39	0	0	0	0	0	0
3/31/2024 10:00	67605	WARW_T1	14	16	2	0.58	0.64	0.06	-1.2	-1.25	0	0	0	0	0	0
3/31/2024 10:00	42301	MOWR_T2	1	1	0	3.7	3.8	0.1	0	0	0	0	0	0	0	0
3/31/2024 10:00	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	-0.88	-0.83	0	0	0	0	0	0
3/31/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	-0.92	-0.93	0	0	0	0	0	0
3/31/2024 10:00	42903	MIDD_T2	42	40	-2	0.35	0.32	-0.03	-0.47	-0.44	0	0	0	0	0	0
3/31/2024 10:00	57306	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 10:06	26001	WDAM_T1	0	0	0	0	0	0	-0.7	-0.74	0	0	0	0	0	0
3/31/2024 10:06	40603	PIGR_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 10:06	40602	PIGR_T1	1	1	0	1	0.8	-0.2	-1.43	-1.4	2	2	0	1200	1200	0
3/31/2024 10:06	67901	WNHO_T2	108	93	-15	0.38	0.29	-0.09	-0.61	-0.63	0	0	0	0	0	0
3/31/2024 10:07	59101	WALK_T2	0	0	0	0	0	0	1.26	1.06	0	0	0	0	0	0
3/31/2024 10:07	40901	JESH_T1	1	1	0	1.4	0.9	-0.5	0	0	0	0	0	0	0	0
3/31/2024 10:07	40902	JESH_T1	0	0	0	0	0	0	-0.95	-0.98	0	0	0	0	0	0
3/31/2024 10:07	40101	HUNT_T2	4	4	0	0.3	0	-0.3	-1.25	-1.24	0	0	0	0	0	0
3/31/2024 10:07	58003	WCAR_T1	1	1	0	0.8	0.5	-0.3	-0.19	-0.22	1	1	0	600	600	0
3/31/2024 10:07	64305	LINC_T1	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
3/31/2024 10:08	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
3/31/2024 10:08	64801	MONE_T2	0	1	1	0	0.1	0.1	-0.42	-0.41	0	0	0	0	0	0
3/31/2024 10:08	10801	CHHI_T1	0	1	1	0	0.4	0.4	-0.98	-0.99	1	1	0	900	900	0
3/31/2024 10:08	58402	MORO_T1	0	0	0	0	0	0	-0.66	-0.67	2	2	0	1500	1500	0
3/31/2024 10:08	46203	DANV_T2	1	2	1	0.1	0.1	0	-2.29	-2.32	0	0	0	0	0	0
3/31/2024 10:08	46001	BERW_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
3/31/2024 10:13	52404	GRPA_T2	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
3/31/2024 10:13	46801	HEPB_T2	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
3/31/2024 10:13	52402	GRPA_T2	1	1	0	2.3	1.9	-0.4	-1.07	-1.15	0	0	0	0	0	0
3/31/2024 10:13	52403	GRPA_T2	10	15	5	0.8	0.69	-0.11	0	0	0	0	0	0	0	0
3/31/2024 10:14	12701	MACU_T1	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
3/31/2024 10:14	46801	HEPB_T2	0	0	0	0	0	0	1.14	1.16	0	0	0	0	0	0
3/31/2024 10:16	64202	KINZ_T1	11	9	-2	0.22	0.17	-0.05	0	0	0	0	0	0	0	0
3/31/2024 10:16	64203	KINZ_T1	10	7	-3	0.17	0.13	-0.04	-0.19	-0.21	0	0	0	0	0	0
3/31/2024 10:16	64201	KINZ_T1	7	7	0	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
3/31/2024 10:16	64204	KINZ_T1	3	3	0	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
3/31/2024 10:16	16402	MOPO_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
3/31/2024 10:17	12701	MACU_T1	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/31/2024 10:17	64201	KINZ_T1	7	7	0	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
3/31/2024 10:17	64202	KINZ_T1	11	9	-2	0.22	0.17	-0.05	0	0	0	0	0	0	0	0
3/31/2024 10:17	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 10:17	64204	KINZ_T1	3	3	0	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
3/31/2024 10:17	64203	KINZ_T1	10	7	-3	0.17	0.13	-0.04	-0.19	-0.21	0	0	0	0	0	0
3/31/2024 10:18	64201	KINZ_T1	7	7	0	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
3/31/2024 10:18	64204	KINZ_T1	3	3	0	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
3/31/2024 10:18	64202	KINZ_T1	11	9	-2	0.22	0.17	-0.05	0	0	0	0	0	0	0	0
3/31/2024 10:18	64203	KINZ_T1	10	7	-3	0.17	0.13	-0.04	-0.19	-0.21	0	0	0	0	0	0
3/31/2024 10:18	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 10:19	14404	SSLA_T1	1	1	0	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
3/31/2024 10:19	65001	NEFF_T2	0	4	4	0	0.13	0.13	-1.45	-1.46	1	1	0	1200	1200	0
3/31/2024 10:19	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 10:19	14403	SSLA_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
3/31/2024 10:20	56501	ROCK_T2	2	1	-1	0.55	1	0.45	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 10:20	14403	SSLA_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
3/31/2024 10:20	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
3/31/2024 10:20	14404	SSLA_T1	1	1	0	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
3/31/2024 10:21	56501	ROCK_T2	2	1	-1	0.55	1	0.45	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 10:22	56501	ROCK_T2	2	1	-1	0.55	1	0.45	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 10:24	60803	BUCK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/31/2024 10:24	60801	BUCK_T1	1	0	-1	0.1	0	-0.1	-0.21	-0.19	0	0	0	0	0	0
3/31/2024 10:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 10:28	28403	HART_T2	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
3/31/2024 10:29	52402	GRPA_T2	1	1	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
3/31/2024 10:29	52404	GRPA_T2	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
3/31/2024 10:29	52403	GRPA_T2	6	16	10	0.68	0.73	0.05	0	0	0	0	0	0	0	0
3/31/2024 10:31	52004	LING_T2	1	1	0	0.8	0.7	-0.1	0.04	0.04	0	0	0	0	0	0
3/31/2024 10:34	66504	SMAN_T2	0	0	0	0	0	0	-1.39	-1.44	0	0	0	0	0	0
3/31/2024 10:38	59101	WALK_T2	0	0	0	0	0	0	1.25	1.22	0	0	0	0	0	0
3/31/2024 10:39	20403	ASHF_T2	0	0	0	0	0	0	0.12	0.16	0	0	0	0	0	0
3/31/2024 10:41	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	-1.22	-1.23	1	1	0	600	600	0
3/31/2024 10:42	20403	ASHF_T2	0	0	0	0	0	0	0.12	0.16	0	0	0	0	0	0
3/31/2024 10:43	46203	DANV_T2	2	0	-2	0.1	0	-0.1	-2.3	-2.31	0	0	0	0	0	0
3/31/2024 10:44	63804	HEMP_T1	5	5	0	1.24	1.24	0	0	0	0	0	0	0	0	0
3/31/2024 10:44	63802	HEMP_T1	0	7	7	0	0.11	0.11	0.11	0.09	0	0	0	0	0	0
3/31/2024 10:44	63803	HEMP_T1	19	17	-2	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
3/31/2024 10:44	63801	HEMP_T1	6	10	4	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
3/31/2024 10:46	63801	HEMP_T1	10	1	-9	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/31/2024 10:46	63802	HEMP_T1	7	3	-4	0.11	0.1	-0.01	0.11	0.09	0	0	0	0	0	0
3/31/2024 10:46	63804	HEMP_T1	5	3	-2	1.24	1.93	0.69	0	0	0	0	0	0	0	0
3/31/2024 10:46	63803	HEMP_T1	17	0	-17	0.11	0	-0.11	0	0	0	0	0	0	0	0
3/31/2024 10:47	64201	KINZ_T1	7	7	0	0.23	0.3	0.07	0.67	0.65	0	0	0	0	0	0
3/31/2024 10:47	42901	MIDD_T2	124	97	-27	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
3/31/2024 10:47	45003	LIME_2	1	1	0	4.4	4.6	0.2	0	0	1	1	0	1200	1200	0
3/31/2024 10:47	64202	KINZ_T1	9	13	4	0.17	0.25	0.08	0	0	0	0	0	0	0	0
3/31/2024 10:47	42903	MIDD_T2	35	27	-8	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
3/31/2024 10:47	42902	MIDD_T2	62	55	-7	0.31	0.28	-0.03	-0.64	-0.65	0	0	0	0	0	0
3/31/2024 10:47	64203	KINZ_T1	7	24	17	0.13	0.13	0	0	0	0	0	0	0	0	0
3/31/2024 10:47	45001	LIME_2	24	3	-21	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
3/31/2024 10:47	64204	KINZ_T1	3	11	8	0.27	0.19	-0.08	0	0	0	0	0	0	0	0
3/31/2024 10:48	64101	REFR_T1	0	0	0	0	0	0	-0.94	-0.92	0	0	0	0	0	0
3/31/2024 10:49	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 10:50	66703	STRA_T1	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
3/31/2024 10:50	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 10:57	52403	GRPA_T2	6	6	0	0.67	0.88	0.21	-0.1	-0.11	0	0	0	0	0	0
3/31/2024 10:57	52402	GRPA_T2	1	1	0	1.7	2.4	0.7	0	0	0	0	0	0	0	0
3/31/2024 10:57	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 11:00	55002	NEWP_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
3/31/2024 11:01	55002	NEWP_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
3/31/2024 11:03	44601	SALE_T2	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
3/31/2024 11:05	59101	WALK_T2	0	0	0	0	0	0	1.22	1.17	0	0	0	0	0	0
3/31/2024 11:06	56501	ROCK_T2	1	1	0	0.9	1.1	0.2	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 11:08	59101	WALK_T2	0	0	0	0	0	0	1.17	1.23	0	0	0	0	0	0
3/31/2024 11:12	56501	ROCK_T2	1	1	0	0.9	1.1	0.2	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 11:14	42902	MIDD_T2	53	38	-15	0.28	0.27	-0.01	-0.65	-0.64	0	0	0	0	0	0
3/31/2024 11:14	42901	MIDD_T2	91	97	6	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
3/31/2024 11:14	42903	MIDD_T2	27	9	-18	0.33	0.58	0.25	0	0	0	0	0	0	0	0
3/31/2024 11:17	64203	KINZ_T1	2	2	0	0.1	0.15	0.05	-0.19	-0.21	0	0	0	0	0	0
3/31/2024 11:17	64201	KINZ_T1	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0	0
3/31/2024 11:17	64204	KINZ_T1	3	3	0	0.17	0.37	0.2	0	0	0	0	0	0	0	0
3/31/2024 11:17	64202	KINZ_T1	6	9	3	0.1	0.11	0.01	0	0	0	0	0	0	0	0
3/31/2024 11:20	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 11:21	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 11:22	56501	ROCK_T2	1	2	1	1.1	0.5	-0.6	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 11:23	45602	WOOL_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
3/31/2024 11:24	59101	WALK_T2	0	1	1	0	0	0	2.46	2.7	0	0	0	0	0	0
3/31/2024 11:24	20401	ASHF_T2	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
3/31/2024 11:24	20403	ASHF_T2	1	0	-1	0.5	0	-0.5	0.17	0.15	0	0	0	0	0	0
3/31/2024 11:26	27502	WEIS_T2	0	0	0	0	0	0	-0.58	-0.63	0	0	0	0	0	0
3/31/2024 11:26	45602	WOOL_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
3/31/2024 11:26	20403	ASHF_T2	1	0	-1	0.5	0	-0.5	0.17	0.15	0	0	0	0	0	0
3/31/2024 11:26	59101	WALK_T2	0	1	1	0	0	0	1.23	1.35	0	0	0	0	0	0
3/31/2024 11:26	20401	ASHF_T2	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
3/31/2024 11:27	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 11:27	40502	CRES_T2	0	4	4	0	0.13	0.13	-0.01	-0.02	0	0	0	0	0	0
3/31/2024 11:27	56501	ROCK_T2	1	2	1	1.1	0.5	-0.6	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 11:28	45602	WOOL_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
3/31/2024 11:32	65001	NEFF_T2	0	2	2	0	0.1	0.1	-1.43	-1.47	1	1	0	1200	1200	0
3/31/2024 11:34	56501	ROCK_T2	1	4	3	1.1	0.33	-0.77	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 11:35	56501	ROCK_T2	1	4	3	1.1	0.33	-0.77	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 11:36	20403	ASHF_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
3/31/2024 11:36	64101	REFR_T1	0	0	0	0	0	0	-0.88	-0.92	0	0	0	0	0	0
3/31/2024 11:36	60605	NCOL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 11:36	26001	WDAM_T1	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
3/31/2024 11:37	60605	NCOL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 11:38	60605	NCOL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 11:38	14403	SSLA_T1	0	1	1	0	0	0	0.57	0.6	0	0	0	0	0	0
3/31/2024 11:38	14404	SSLA_T1	1	1	0	3.7	3.5	-0.2	0	0	0	0	0	0	0	0
3/31/2024 11:38	56501	ROCK_T2	1	4	3	1.1	0.33	-0.77	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 11:39	14404	SSLA_T1	1	1	0	3.7	3.5	-0.2	0	0	0	0	0	0	0	0
3/31/2024 11:39	56501	ROCK_T2	1	4	3	1.1	0.33	-0.77	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 11:39	14403	SSLA_T1	0	1	1	0	0	0	0.57	0.6	0	0	0	0	0	0
3/31/2024 11:40	20403	ASHF_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
3/31/2024 11:43	56501	ROCK_T2	1	4	3	1.1	0.33	-0.77	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 11:49	14403	SSLA_T1	0	1	1	0	0.2	0.2	1.14	1.2	0	0	0	0	0	0
3/31/2024 11:49	14404	SSLA_T1	1	1	0	3.5	2.6	-0.9	0	0	0	0	0	0	0	0
3/31/2024 11:50	56501	ROCK_T2	2	4	2	0.5	0.33	-0.17	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 11:51	64101	REFR_T1	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
3/31/2024 11:51	56501	ROCK_T2	2	4	2	0.5	0.33	-0.17	-0.02	-0.02	0	0	0	0	0	0
3/31/2024 11:52	60605	NCOL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 11:53	67402	WAKE_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
3/31/2024 11:53	60605	NCOL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 11:54	56501	ROCK_T2	2	4	2	0.5	0.33	-0.17	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 11:55	67402	WAKE_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
3/31/2024 11:55	60803	BUCK_T1	0	3	3	0	0.13	0.13	-1.22	-1.22	1	1	0	600	600	0
3/31/2024 11:56	60605	NCOL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 11:58	60801	BUCK_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
3/31/2024 11:58	47001	HUGH_T2	0	0	0	0	0	0	-1.85	-1.86	1	1	0	900	900	0
3/31/2024 11:58	60803	BUCK_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
3/31/2024 11:59	45702	LIND_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
3/31/2024 11:59	56501	ROCK_T2	2	4	2	0.5	0.33	-0.17	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 12:02	66303	MCGO_T2	2	2	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
3/31/2024 12:02	66302	MCGO_T2	0	1	1	0	0.1	0.1	-1.03	-1.03	0	0	0	0	0	0
3/31/2024 12:04	56501	ROCK_T2	4	1	-3	0.33	0.4	0.07	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 12:05	56501	ROCK_T2	4	1	-3	0.33	0.4	0.07	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 12:06	56501	ROCK_T2	4	1	-3	0.33	0.4	0.07	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 12:08	20403	ASHF_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
3/31/2024 12:09	67402	WAKE_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
3/31/2024 12:09	56501	ROCK_T2	4	1	-3	0.33	0.4	0.07	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 12:10	67402	WAKE_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
3/31/2024 12:11	20403	ASHF_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
3/31/2024 12:15	45702	LIND_T2	0	1	1	0	0.2	0.2	-0.52	-0.54	0	0	0	0	0	0
3/31/2024 12:19	59301	MCAL_T1	2	3	1	0.25	0.53	0.28	-1.86	-1.85	1	1	0	600	600	0
3/31/2024 12:19	59302	MCAL_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/31/2024 12:20	56501	ROCK_T2	1	5	4	0.4	0.24	-0.16	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 12:25	44302	BEAV_T2	176	336	160	0.45	0.7	0.25	0.25	0.24	0	0	0	0	0	0
3/31/2024 12:25	56501	ROCK_T2	1	5	4	0.4	0.24	-0.16	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 12:25	44301	BEAV_T2	5	11	6	0.44	0.56	0.12	0	0	0	0	0	0	0	0
3/31/2024 12:29	64305	LINC_T1	0	0	0	0	0	0	-0.74	-0.7	0	0	0	0	0	0
3/31/2024 12:35	64305	LINC_T1	0	0	0	0	0	0	-0.74	-0.7	0	0	0	0	0	0
3/31/2024 12:38	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/31/2024 12:38	10705	CATA_T2	0	1	1	0	1.1	1.1	-1	-0.99	1	1	0	900	900	0
3/31/2024 12:39	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/31/2024 12:39	10705	CATA_T2	0	1	1	0	1.1	1.1	-1	-0.99	1	1	0	900	900	0
3/31/2024 12:50	66303	MCGO_T2	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
3/31/2024 12:50	66302	MCGO_T2	1	5	4	0.4	0.54	0.14	-0.88	-1.01	0	0	0	0	0	0
3/31/2024 12:51	20401	ASHF_T2	2	0	-2	0.15	0	-0.15	-2.83	-2.84	0	0	0	0	0	0
3/31/2024 12:55	20403	ASHF_T2	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
3/31/2024 12:55	20401	ASHF_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/31/2024 12:56	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 12:57	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 12:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 13:08	14404	SSLA_T1	1	2	1	4.1	4.6	0.5	0	0	0	0	0	0	0	0
3/31/2024 13:08	14403	SSLA_T1	0	0	0	0	0	0	1.01	1.02	0	0	0	0	0	0
3/31/2024 13:12	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 13:13	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 13:20	67204	TEHI_T2	1	1	0	0.2	1.1	0.9	0	-0.01	0	0	0	0	0	0
3/31/2024 13:22	58001	WCAR_T1	4	4	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
3/31/2024 13:22	58003	WCAR_T1	1	1	0	0.8	1	0.2	-0.22	-0.19	1	1	0	600	600	0
3/31/2024 13:23	67204	TEHI_T2	1	1	0	0.2	1.1	0.9	-0.01	0	0	0	0	0	0	0
3/31/2024 13:23	58001	WCAR_T1	4	4	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
3/31/2024 13:23	58003	WCAR_T1	1	1	0	0.8	1	0.2	-0.19	-0.2	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/31/2024 13:25	41502	FAIR_T2	0	0	0	0	0	0	-1.69	-0.69	1	0	-1	900	0	-900
3/31/2024 13:32	64305	LINC_T1	0	1	1	0	0.3	0.3	-0.77	-0.68	0	0	0	0	0	0
3/31/2024 13:32	64303	LINC_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/31/2024 13:34	43202	MVIL_T2	1	13	12	0.8	0.23	-0.57	-0.74	-0.72	0	0	0	0	0	0
3/31/2024 13:36	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 13:37	64305	LINC_T1	0	1	1	0	0.3	0.3	-0.77	-0.68	0	0	0	0	0	0
3/31/2024 13:37	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 13:37	64303	LINC_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/31/2024 13:38	44301	BEAV_T2	8	8	0	0.58	0.68	0.1	0	0	0	0	0	0	0	0
3/31/2024 13:38	44302	BEAV_T2	347	426	79	0.62	0.67	0.05	0.25	0.25	0	0	0	0	0	0
3/31/2024 13:42	40101	HUNT_T2	0	1	1	0	0.1	0.1	-0.73	-0.72	0	0	0	0	0	0
3/31/2024 13:44	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/31/2024 13:48	13902	SEID_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
3/31/2024 13:48	64303	LINC_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/31/2024 13:48	64305	LINC_T1	1	0	-1	0.3	0	-0.3	-0.68	-0.67	0	0	0	0	0	0
3/31/2024 13:48	13901	SEID_T1	0	0	0	0	0	0	-0.91	-0.95	1	1	0	1200	1200	0
3/31/2024 13:49	67204	TEHI_T2	1	1	0	1.1	0.8	-0.3	0	-0.01	0	0	0	0	0	0
3/31/2024 13:49	56501	ROCK_T2	6	9	3	0.3	0.36	0.06	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 13:50	42201	SHEN_T2	0	0	0	0	0	0	0.33	0.37	0	0	0	0	0	0
3/31/2024 13:51	67204	TEHI_T2	1	1	0	1.1	0.8	-0.3	0	-0.01	0	0	0	0	0	0
3/31/2024 13:53	64303	LINC_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/31/2024 13:53	64305	LINC_T1	1	0	-1	0.3	0	-0.3	-0.67	-0.75	0	0	0	0	0	0
3/31/2024 13:54	56802	BENV_T2	0	2	2	0	1	1	-1.6	-1.59	0	0	0	0	0	0
3/31/2024 13:54	56501	ROCK_T2	6	9	3	0.3	0.36	0.06	-0.02	-0.02	0	0	0	0	0	0
3/31/2024 13:55	56802	BENV_T2	0	2	2	0	1	1	-1.6	-1.59	0	0	0	0	0	0
3/31/2024 13:59	64305	LINC_T1	1	0	-1	0.3	0	-0.3	-0.67	-0.75	0	0	0	0	0	0
3/31/2024 13:59	64303	LINC_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/31/2024 14:01	16103	BING_T2	1	2	1	0.1	1.15	1.05	0	0	0	0	0	0	0	0
3/31/2024 14:01	16101	BING_T2	1	1	0	0.2	0.5	0.3	0.34	0.34	0	0	0	0	0	0
3/31/2024 14:01	16102	BING_T2	2	8	6	0.2	0.56	0.36	0	0	0	0	0	0	0	0
3/31/2024 14:04	64303	LINC_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
3/31/2024 14:04	64305	LINC_T1	0	0	0	0	0	0	-0.67	-0.75	0	0	0	0	0	0
3/31/2024 14:05	67402	WAKE_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
3/31/2024 14:05	67401	WAKE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/31/2024 14:05	56501	ROCK_T2	8	9	1	0.29	0.53	0.24	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 14:06	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
3/31/2024 14:07	40902	JESH_T1	0	0	0	0	0	0	-0.94	-0.96	0	0	0	0	0	0
3/31/2024 14:09	20401	ASHF_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
3/31/2024 14:09	44302	BEAV_T2	367	445	78	0.65	0.71	0.06	0.29	0.26	0	0	0	0	0	0
3/31/2024 14:09	20403	ASHF_T2	0	2	2	0	0.25	0.25	0.07	0.03	0	0	0	0	0	0
3/31/2024 14:09	67401	WAKE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/31/2024 14:09	20402	ASHF_T2	6	6	0	0.95	0.1	-0.85	0	0	0	0	0	0	0	0
3/31/2024 14:09	44301	BEAV_T2	8	13	5	0.64	0.53	-0.11	0	0	0	0	0	0	0	0
3/31/2024 14:09	67402	WAKE_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
3/31/2024 14:10	53903	HALI_T2	3	7	4	0.37	0.31	-0.06	0	0	0	0	0	0	0	0
3/31/2024 14:10	56802	BENV_T2	1	2	1	0.8	1	0.2	-3.19	-3.2	0	0	0	0	0	0
3/31/2024 14:10	53903	HALI_T2	7	12	5	0.64	0.71	0.07	-0.2	-0.21	0	0	0	0	0	0
3/31/2024 14:10	20401	ASHF_T2	0	3	3	0	0.27	0.27	-0.48	-0.49	0	0	0	0	0	0
3/31/2024 14:10	56501	ROCK_T2	8	9	1	0.29	0.53	0.24	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 14:10	53902	HALI_T2	3	3	0	2.17	2.2	0.03	0	0	0	0	0	0	0	0
3/31/2024 14:10	20403	ASHF_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/31/2024 14:10	20402	ASHF_T2	6	6	0	0.95	0.1	-0.85	0	0	0	0	0	0	0	0
3/31/2024 14:11	20402	ASHF_T2	6	6	0	0.95	0.1	-0.85	0	0	0	0	0	0	0	0
3/31/2024 14:11	53903	HALI_T2	7	12	5	0.64	0.71	0.07	-0.2	-0.21	0	0	0	0	0	0
3/31/2024 14:11	20403	ASHF_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/31/2024 14:11	20401	ASHF_T2	0	3	3	0	0.27	0.27	-0.48	-0.49	0	0	0	0	0	0
3/31/2024 14:11	56802	BENV_T2	1	2	1	0.8	1	0.2	-1.59	-1.6	0	0	0	0	0	0
3/31/2024 14:11	53901	HALI_T2	3	7	4	0.37	0.31	-0.06	0	0	0	0	0	0	0	0
3/31/2024 14:11	53902	HALI_T2	3	3	0	2.17	2.2	0.03	0	0	0	0	0	0	0	0
3/31/2024 14:12	56802	BENV_T2	1	2	1	0.8	1	0.2	-1.59	-1.6	0	0	0	0	0	0
3/31/2024 14:12	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 14:13	41801	GOCI_T2	5	169	164	0.1	0.43	0.33	0	0	0	0	0	0	0	0
3/31/2024 14:14	64305	LINC_T1	0	0	0	0	0	0	-0.75	-0.72	0	0	0	0	0	0
3/31/2024 14:14	25501	MADI_T1	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/31/2024 14:14	64303	LINC_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
3/31/2024 14:14	25503	MADI_T1	5	183	178	0.18	0.43	0.25	-1.02	-1.03	0	0	0	0	0	0
3/31/2024 14:14	28403	HART_T2	0	0	0	0	0	0	-1.04	-1.04	1	1	0	900	900	0
3/31/2024 14:14	25502	MADI_T1	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/31/2024 14:15	64301	LINC_T1	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
3/31/2024 14:16	45702	LIND_T2	1	2	1	0.5	0.7	0.2	-0.61	-0.61	0	0	0	0	0	0
3/31/2024 14:16	26402	INOR_T1	1	3	2	1.2	0.57	-0.63	-0.5	-0.51	0	0	0	0	0	0
3/31/2024 14:16	43202	MVIL_T2	2	17	15	0.45	0.21	-0.24	-0.75	-0.74	0	0	0	0	0	0
3/31/2024 14:16	53901	HALI_T2	4	6	2	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
3/31/2024 14:16	53903	HALI_T2	11	9	-2	0.72	0.76	0.04	-0.2	-0.21	0	0	0	0	0	0
3/31/2024 14:16	26401	INOR_T1	2	4	2	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/31/2024 14:16	53902	HALI_T2	2	3	1	3.25	2.17	-1.08	0	0	0	0	0	0	0	0
3/31/2024 14:17	45001	LIME_2	37	41	4	0.55	0.67	0.12	0	0	0	0	0	0	0	0
3/31/2024 14:17	45003	LIME_2	2	2	0	2.95	2.7	-0.25	0	0	2	2	0	2400	2400	0
3/31/2024 14:19	40603	HGR_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
3/31/2024 14:19	58401	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/31/2024 14:19	58402	MORO_T1	0	1	1	0	0.1	0.1	-0.71	-0.69	2	2	0	1500	1500	0
3/31/2024 14:19	64305	LINC_T1	0	0	0	0	0	0	-0.75	-0.72	0	0	0	0	0	0
3/31/2024 14:20	13904	SEID_T1	0	10	10	0	0.4	0.4	0	0	0	0	0	0	0	0
3/31/2024 14:20	58401	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/31/2024 14:20	58402	MORO_T1	0	1	1	0	0.1	0.1	-0.71	-0.69	2	2	0	1500	1500	0
3/31/2024 14:20	13905	SEID_T1	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
3/31/2024 14:20	13902	SEID_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/31/2024 14:20	43202	MVIL_T2	2	17	15	0.45	0.21	-0.24	0	0	0	0	0	0	0	0
3/31/2024 14:20	43201	MVIL_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
3/31/2024 14:20	13901	SEID_T1	0	0	0	0	0	0	-0.95	-0.93	1	1	0	1200	1200	0
3/31/2024 14:21	45303	WBER_T2	8	11	3	0.48	0.79	0.31	-1.41	-1.41	0	0	0	0	0	0
3/31/2024 14:22	43105	SMIL_T2	2	10	8	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
3/31/2024 14:22	43103	SMIL_T2	3	9	6	0.27	0.56	0.29	0	0	0	0	0	0	0	0
3/31/2024 14:22	43101	SMIL_T2	3	6	3	0.27	0.53	0.26	0	0	0	0	0	0	0	0
3/31/2024 14:22	59101	WALK_T2	0	0	0	0	0	0	2.36	2.56	0	0	0	0	0	0
3/31/2024 14:22	43104	SMIL_T2	0	1	1	0	0.1	0.1	-0.85	-0.86	1	1	0	300	300	0
3/31/2024 14:22	53102	WTWN_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
3/31/2024 14:22	53101	WTWN_T1	1	5	4	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/31/2024 14:22	42201	SHEN_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
3/31/2024 14:22	43102	SMIL_T2	5	7	2	0.44	0.5	0.06	0	0	0	0	0	0	0	0
3/31/2024 14:22	43108	SMIL_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
3/31/2024 14:23	67605	WARW_T1	33	42	9	0.64	0.7	0.06	-1.23	-1.24	0	0	0	0	0	0
3/31/2024 14:23	40902	JESH_T1	0	0	0	0	0	0	-1.01	-0.98	0	0	0	0	0	0
3/31/2024 14:23	67603	WARW_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/31/2024 14:24	20402	ASHF_T2	6	3	-3	0.93	0.15	-0.78	0	0	0	0	0	0	0	0
3/31/2024 14:24	59101	WALK_T2	0	0	0	0	0	0	2.56	2.37	0	0	0	0	0	0
3/31/2024 14:24	20403	ASHF_T2	2	2	0	0.2	0.5	0.3	-0.03	-0.06	0	0	0	0	0	0
3/31/2024 14:24	20401	ASHF_T2	3	2	-1	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
3/31/2024 14:24	56802	BENV_T2	2	2	0	1	0.35	-0.65	-1.6	-1.59	0	0	0	0	0	0
3/31/2024 14:25	59101	WALK_T2	0	0	0	0	0	0	1.28	1.19	0	0	0	0	0	0
3/31/2024 14:25	44301	BEAV_T2	10	16	6	0.59	0.63	0.04	0	0	0	0	0	0	0	0
3/31/2024 14:25	44302	BEAV_T2	416	494	78	0.65	0.8	0.15	0.26	0.27	0	0	0	0	0	0
3/31/2024 14:25	60801	BUCK_T1	4	6	2	0.25	0.27	0.02	-0.2	-0.24	0	0	0	0	0	0
3/31/2024 14:25	60803	BUCK_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
3/31/2024 14:25	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 14:25	67402	WAKE_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
3/31/2024 14:25	67401	WAKE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/31/2024 14:26	53902	HALI_T2	2	3	1	3.25	2.17	-1.08	0	0	0	0	0	0	0	0
3/31/2024 14:26	53903	HALI_T2	11	9	-2	0.72	0.76	0.04	-0.21	-0.23	0	0	0	0	0	0
3/31/2024 14:26	53901	HALI_T2	4	6	2	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
3/31/2024 14:26	56802	BENV_T2	2	2	0	1	0.35	-0.65	-3.2	-3.18	0	0	0	0	0	0
3/31/2024 14:26	41601	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/31/2024 14:27	60801	BUCK_T1	4	6	2	0.25	0.27	0.02	0	0	0	0	0	0	0	0
3/31/2024 14:27	53903	HALI_T2	11	9	-2	0.72	0.76	0.04	-0.21	-0.23	0	0	0	0	0	0
3/31/2024 14:27	53902	HALI_T2	2	3	1	3.25	2.17	-1.08	0	0	0	0	0	0	0	0
3/31/2024 14:27	53901	HALI_T2	4	6	2	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
3/31/2024 14:27	60803	BUCK_T1	0	3	3	0	0.13	0.13	-0.57	-0.58	1	1	0	600	600	0
3/31/2024 14:27	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 14:27	40902	JESH_T1	0	0	0	0	0	0	-1.01	-0.98	0	0	0	0	0	0
3/31/2024 14:27	41601	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/31/2024 14:28	10702	CATA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/31/2024 14:28	10705	CATA_T2	0	0	0	0	0	0	-0.99	-1.02	1	1	0	900	900	0
3/31/2024 14:28	10707	CATA_T2	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
3/31/2024 14:29	25502	MADI_T1	1	2	1	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
3/31/2024 14:29	56603	HAMP_T1	0	0	0	0	0	0	-1.2	-1.2	0	0	0	0	0	0
3/31/2024 14:29	56601	HAMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/31/2024 14:29	25501	MADI_T1	2	1	-1	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
3/31/2024 14:29	25503	MADI_T1	17	184	167	0.14	0.44	0.3	-1.03	-1.03	0	0	0	0	0	0
3/31/2024 14:30	52004	LING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 14:30	40101	HUNT_T2	0	0	0	0	0	0	-2.2	-2.2	0	0	0	0	0	0
3/31/2024 14:31	42903	MIDD_T2	194	273	79	0.75	0.89	0.14	0	0	0	0	0	0	0	0
3/31/2024 14:31	42901	MIDD_T2	607	805	198	0.73	0.8	0.07	0	0	0	0	0	0	0	0
3/31/2024 14:31	45702	LIND_T2	2	3	1	0.7	0.8	0.1	-0.61	-0.63	0	0	0	0	0	0
3/31/2024 14:31	42902	MIDD_T2	298	407	109	0.76	0.92	0.16	-0.69	-0.69	0	0	0	0	0	0
3/31/2024 14:32	53903	HALI_T2	9	7	-2	0.74	0.73	-0.01	-0.21	-0.23	0	0	0	0	0	0
3/31/2024 14:32	40902	JESH_T1	0	0	0	0	0	0	-1.01	-0.98	0	0	0	0	0	0
3/31/2024 14:32	53902	HALI_T2	3	2	-1	2.13	3.05	0.92	0	0	0	0	0	0	0	0
3/31/2024 14:32	53901	HALI_T2	5	12	7	0.38	0.21	-0.17	0	0	0	0	0	0	0	0
3/31/2024 14:32	52004	LING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 14:33	26402	INOR_T1	3	11	8	0.57	0.27	-0.3	-0.51	-0.49	0	0	0	0	0	0
3/31/2024 14:33	42902	MIDD_T2	298	407	109	0.76	0.92	0.16	-0.69	-0.69	0	0	0	0	0	0
3/31/2024 14:33	66302	MCGO_T2	6	4	-2	0.4	0.45	0.05	-1.05	-0.9	0	0	0	0	0	0
3/31/2024 14:33	42901	MIDD_T2	607	805	198	0.73	0.8	0.07	0	0	0	0	0	0	0	0
3/31/2024 14:33	26401	INOR_T1	3	3	0	0.37	0.5	0.13	0	0	0	0	0	0	0	0
3/31/2024 14:33	42903	MIDD_T2	194	273	79	0.75	0.89	0.14	0	0	0	0	0	0	0	0
3/31/2024 14:33	66303	MCGO_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
3/31/2024 14:34	42902	MIDD_T2	298	407	109	0.76	0.92	0.16	-2.06	-2.07	0	0	0	0	0	0
3/31/2024 14:34	42201	SHEN_T2	0	1	1	0	0.5	0.5	0.33	0.34	0	0	0	0	0	0
3/31/2024 14:34	42901	MIDD_T2	607	805	198	0.73	0.8	0.07	0	0	0	0	0	0	0	0
3/31/2024 14:34	42903	MIDD_T2	194	273	79	0.75	0.89	0.14	0	0	0	0	0	0	0	0
3/31/2024 14:35	66303	MCGO_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
3/31/2024 14:35	67402	WAKE_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
3/31/2024 14:35	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/31/2024 14:35	66302	MCGO_T2	6	4	-2	0.4	0.45	0.05	-1.05	-0.9	0	0	0	0	0	0
3/31/2024 14:35	67401	WAKE_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/31/2024 14:35	58401	MORO_T1	0	0	0	0	0	0	-1.34	-1.33	1	1	0	600	600	0
3/31/2024 14:36	67401	WAKE_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/31/2024 14:36	13901	SEID_T1	0	0	0	0	0	0	-0.93	0.35	1	0	-1	1200	0	-1200
3/31/2024 14:36	67402	WAKE_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
3/31/2024 14:36	13905	SEID_T1	4	1	-3	0.35	0.4	0.05	0	0	0	0	0	0	0	0
3/31/2024 14:36	56501	ROCK_T2	9	11	2	0.51	0.65	0.14	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 14:36	13904	SEID_T1	10	1	-9	0.33	0	-0.33	0	0	0	0	0	0	0	0
3/31/2024 14:36	13902	SEID_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
3/31/2024 14:36	58402	MORO_T1	0	1	1	0	0.1	0.1	-1.37	-1.37	4	4	0	3000	3000	0
3/31/2024 14:37	45602	WOOL_T1	1	1	0	0.1	0.1	0	0.33	0.34	0	0	0	0	0	0
3/31/2024 14:37	45303	WBER_T2	9	18	9	0.71	0.63	-0.08	-1.41	-1.32	0	0	0	0	0	0
3/31/2024 14:37	20401	ASHF_T2	2	3	1	0.1	0.2	0.1	-0.49	-0.48	0	0	0	0	0	0
3/31/2024 14:37	20402	ASHF_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/31/2024 14:37	42201	SHEN_T2	0	1	1	0	0.5	0.5	0.33	0.34	0	0	0	0	0	0
3/31/2024 14:37	45301	WBER_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/31/2024 14:37	20403	ASHF_T2	2	4	2	0.25	0.43	0.18	0	0	0	0	0	0	0	0
3/31/2024 14:37	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/31/2024 14:37	58401	MORO_T1	0	0	0	0	0	0	-1.34	-1.33	1	1	0	600	600	0
3/31/2024 14:38	60701	BREC_T1	2	0	-2	0.2	0	-0.2	-0.13	-0.07	0	0	0	0	0	0
3/31/2024 14:38	43108	SMIL_T2	3	4	1	0.2	0.43	0.23	0	0	0	0	0	0	0	0
3/31/2024 14:38	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 14:38	56501	ROCK_T2	9	11	2	0.51	0.65	0.14	-0.02	-0.02	0	0	0	0	0	0
3/31/2024 14:38	43102	SMIL_T2	6	8	2	0.5	0.55	0.05	0	0	0	0	0	0	0	0
3/31/2024 14:38	53101	WTWN_T1	2	5	3	0.35	0.4	0.05	0	0	0	0	0	0	0	0
3/31/2024 14:38	53102	WTWN_T1	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
3/31/2024 14:38	45001	LIME_2	40	33	-7	0.67	0.43	-0.24	0	0	0	0	0	0	0	0
3/31/2024 14:38	43104	SMIL_T2	0	1	1	0	0.1	0.1	-0.86	-0.87	1	1	0	300	300	0
3/31/2024 14:38	43101	SMIL_T2	4	4	0	0.53	0.63	0.1	0	0	0	0	0	0	0	0
3/31/2024 14:38	43103	SMIL_T2	5	13	8	0.46	0.52	0.06	0	0	0	0	0	0	0	0
3/31/2024 14:38	43105	SMIL_T2	2	12	10	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
3/31/2024 14:38	45003	LIME_2	2	1	-1	2.7	4.3	1.6	0	0	1	0	-1	1200	0	-1200
3/31/2024 14:39	26001	WDAM_T1	4	11	7	0.25	0.46	0.21	-0.88	-0.86	0	0	0	0	0	0
3/31/2024 14:39	53501	EVIL_T2	8	7	-1	0.54	0.5	-0.04	0	0	0	0	0	0	0	0
3/31/2024 14:39	67401	WAKE_T2	1	0	-1	0.3	0	-0.3	-0.96	-0.96	0	0	0	0	0	0
3/31/2024 14:39	53502	EVIL_T2	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
3/31/2024 14:39	26002	WDAM_T1	7	11	4	0.67	0.57	-0.1	0	0	0	0	0	0	0	0
3/31/2024 14:39	60101	COCA_T1	1	8	7	0.6	0.55	-0.05	0.12	0.1	0	0	0	0	0	0
3/31/2024 14:40	56802	BENV_T2	1	2	1	0.5	0.4	-0.1	-1.59	-1.57	0	0	0	0	0	0
3/31/2024 14:40	20403	ASHF_T2	2	4	2	0.25	0.43	0.18	-0.06	-0.05	0	0	0	0	0	0
3/31/2024 14:40	20401	ASHF_T2	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/31/2024 14:40	20402	ASHF_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/31/2024 14:40	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 14:40	60701	BREC_T1	2	0	-2	0.2	0	-0.2	-0.07	-0.04	0	0	0	0	0	0
3/31/2024 14:40	16302	ALPA_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
3/31/2024 14:41	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 14:41	20402	ASHF_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/31/2024 14:41	60801	BUCK_T1	6	4	-2	0.27	0.23	-0.04	-0.24	-0.25	0	0	0	0	0	0
3/31/2024 14:41	20401	ASHF_T2	2	3	1	0.1	0.2	0.1	-0.48	-0.53	0	0	0	0	0	0
3/31/2024 14:41	53901	HALI_T2	5	12	7	0.38	0.21	-0.17	0	0	0	0	0	0	0	0
3/31/2024 14:41	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 14:41	60803	BUCK_T1	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/31/2024 14:41	53903	HALI_T2	9	7	-2	0.74	0.73	-0.01	-0.23	-0.24	0	0	0	0	0	0
3/31/2024 14:41	53902	HALI_T2	3	2	-1	2.13	3.05	0.92	0	0	0	0	0	0	0	0
3/31/2024 14:41	20403	ASHF_T2	2	4	2	0.25	0.43	0.18	0	0	0	0	0	0	0	0
3/31/2024 14:42	53901	HALI_T2	5	12	7	0.38	0.21	-0.17	0	0	0	0	0	0	0	0
3/31/2024 14:42	56501	ROCK_T2	9	11	2	0.51	0.65	0.14	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 14:42	45602	WOOL_T1	1	1	0	0.1	0.1	0	0.34	0.32	0	0	0	0	0	0
3/31/2024 14:42	53902	HALI_T2	3	2	-1	2.13	3.05	0.92	0	0	0	0	0	0	0	0
3/31/2024 14:42	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 14:42	53903	HALI_T2	9	7	-2	0.74	0.73	-0.01	-0.23	-0.24	0	0	0	0	0	0
3/31/2024 14:42	56802	BENV_T2	1	2	1	0.5	0.4	-0.1	-3.18	-3.14	0	0	0	0	0	0
3/31/2024 14:43	60803	BUCK_T1	1	3	2	0.1	0.13	0.03	-0.58	-0.57	1	1	0	600	600	0
3/31/2024 14:43	53901	HALI_T2	5	12	7	0.38	0.21	-0.17	0	0	0	0	0	0	0	0
3/31/2024 14:43	60801	BUCK_T1	6	4	-2	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
3/31/2024 14:43	53903	HALI_T2	9	7	-2	0.74	0.73	-0.01	-0.23	-0.24	0	0	0	0	0	0
3/31/2024 14:43	53902	HALI_T2	3	2	-1	2.13	3.05	0.92	0	0	0	0	0	0	0	0
3/31/2024 14:44	42902	MIDD_T2	298	407	109	0.76	0.92	0.16	-0.69	-0.72	0	0	0	0	0	0
3/31/2024 14:44	41801	GOCI_T2	136	212	76	0.43	0.66	0.23	0	0	0	0	0	0	0	0
3/31/2024 14:44	64902	MILL_T2	0	0	0	0	0	0	-1.46	-1.48	1	1	0	900	900	0
3/31/2024 14:44	42903	MIDD_T2	194	273	79	0.75	0.89	0.14	0	0	0	0	0	0	0	0
3/31/2024 14:44	42901	MIDD_T2	607	805	198	0.73	0.8	0.07	0	0	0	0	0	0	0	0
3/31/2024 14:45	25502	MADI_T1	2	3	1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
3/31/2024 14:45	42901	MIDD_T2	700	850	150	0.79	0.86	0.07	0	0	0	0	0	0	0	0
3/31/2024 14:45	56601	HAMP_T1	1	10	9	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
3/31/2024 14:45	25503	MADI_T1	152	168	16	0.32	0.32	0	-1.03	-1.03	0	0	0	0	0	0
3/31/2024 14:45	25501	MADI_T1	0	4	4	0	0.43	0.43	0	0	0	0	0	0	0	0
3/31/2024 14:45	42903	MIDD_T2	251	291	40	0.87	0.98	0.11	0	0	0	0	0	0	0	0
3/31/2024 14:45	56603	HAMP_T1	0	0	0	0	0	0	-1.2	-1.2	0	0	0	0	0	0
3/31/2024 14:45	64902	MILL_T2	0	0	0	0	0	0	-1.46	-1.48	1	1	0	900	900	0
3/31/2024 14:45	52004	LING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 14:45	42902	MIDD_T2	366	437	71	0.87	0.94	0.07	-1.38	-1.43	0	0	0	0	0	0
3/31/2024 14:46	65005	NEFF_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/31/2024 14:46	65001	NEFF_T2	177	224	47	0.18	0.27	0.09	-1.42	-1.41	1	1	0	1200	1200	0
3/31/2024 14:46	43201	MVIL_T2	0	1	1	0	0.6	0.6	-0.42	-0.42	0	0	0	0	0	0
3/31/2024 14:46	64305	LINC_T1	0	0	0	0	0	0	-0.66	-0.71	0	0	0	0	0	0
3/31/2024 14:46	43202	MVIL_T2	17	26	9	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
3/31/2024 14:47	45702	LIND_T2	2	4	2	0.65	0.63	-0.02	-0.63	-0.61	0	0	0	0	0	0
3/31/2024 14:47	42903	MIDD_T2	251	291	40	0.87	0.98	0.11	0	0	0	0	0	0	0	0
3/31/2024 14:47	42902	MIDD_T2	366	437	71	0.87	0.94	0.07	-0.69	-0.72	0	0	0	0	0	0
3/31/2024 14:47	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
3/31/2024 14:47	43201	MVIL_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/31/2024 14:47	64301	LINC_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
3/31/2024 14:47	43202	MVIL_T2	17	26	9	0.21	0.18	-0.03	-0.73	-0.74	0	0	0	0	0	0
3/31/2024 14:47	42903	MIDD_T2	700	850	150	0.79	0.86	0.07	0	0	0	0	0	0	0	0
3/31/2024 14:48	42901	MIDD_T2	700	850	150	0.79	0.86	0.07	0	0	0	0	0	0	0	0
3/31/2024 14:48	26401	INOR_T1	3	2	-1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/31/2024 14:48	42902	MIDD_T2	366	437	71	0.87	0.94	0.07	-0.69	-0.72	0	0	0	0	0	0
3/31/2024 14:48	13302	ORVI_T2	3	3	0	1	1.2	0.2	1.25	1.26	0	0	0	0	0	0
3/31/2024 14:48	41902	REED_T1	0	3	3	0	0.4	0.4	0.87	0.89	0	0	0	0	0	0
3/31/2024 14:48	41901	REED_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/31/2024 14:48	45501	DERR_T2	2	3	1	0.5	0.57	0.07	-0.65	-0.62	2	2	0	1800	1800	0
3/31/2024 14:48	42903	MIDD_T2	251	291	40	0.87	0.98	0.11	0	0	0	0	0	0	0	0
3/31/2024 14:48	52004	LING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 14:48	26402	INOR_T1	3	11	8	0.53	0.29	-0.24	-0.49	-0.51	0	0	0	0	0	0
3/31/2024 14:49	45501	DERR_T2	2	3	1	0.5	0.57	0.07	-0.65	-0.62	2	2	0	1800	1800	0
3/31/2024 14:49	64902	MILL_T2	0	0	0	0	0	0	-1.46	-1.48	1	1	0	900	900	0
3/31/2024 14:51	43108	SMIL_T2	3	4	1	0.37	0.43	0.06	-1.14	-1.15	1	1	0	1200	1200	0
3/31/2024 14:51	43105	SMIL_T2	10	12	2	0.32	0.36	0.04	0	0	0	0	0	0	0	0
3/31/2024 14:51	43101	SMIL_T2	4	4	0	0.58	0.6	0.02	0	0	0	0	0	0	0	0
3/31/2024 14:51	64305	LINC_T1	0	0	0	0	0	0	-0.66	-0.71	0	0	0	0	0	0
3/31/2024 14:51	40601	PIGR_T1	0	23	23	0	0.24	0.24	0	0	0	0	0	0	0	0
3/31/2024 14:51	41902	REED_T1	0	3	3	0	0.4	0.4	0.87	0.89	0	0	0	0	0	0
3/31/2024 14:51	43103	SMIL_T2	9	12	3	0.56	0.51	-0.05	0	0	0	0	0	0	0	0
3/31/2024 14:51	43102	SMIL_T2	7	9	2	0.49	0.53	0.04	0	0	0	0	0	0	0	0
3/31/2024 14:51	40602	PIGR_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/31/2024 14:51	43104	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/31/2024 14:51	40603	PIGR_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
3/31/2024 14:51	41901	REED_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/31/2024 14:52	56501	ROCK_T2	9	11	2	0.56	0.91	0.35	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 14:53	46004	BERW_T2	0	3	3	0	0.17	0.17	-0.92	-0.91	0	0	0	0	0	0
3/31/2024 14:53	10805	CHHI_T2	1	1	0	7.3	7.5	0.2	-0.76	-0.78	0	0	0	0	0	0
3/31/2024 14:53	46002	BERW_T2	2	2	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/31/2024 14:53	16301	ALPA_T1	9	14	5	0.28	0.25	-0.03	-0.49	-0.48	0	0	0	0	0	0
3/31/2024 14:53	40902	JESH_T1	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
3/31/2024 14:54	60701	BREC_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
3/31/2024 14:54	14802	TREI_T2	3	5	2	0.23	0.26	0.03	0.24	0.25	0	0	0	0	0	0
3/31/2024 14:54	16301	ALPA_T1	9	14	5	0.28	0.25	-0.03	-0.49	-0.48	0	0	0	0	0	0
3/31/2024 14:54	14801	TREI_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
3/31/2024 14:54	40902	JESH_T1	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
3/31/2024 14:55	16301	ALPA_T1	9	14	5	0.28	0.25	-0.03	-0.49	-0.48	0	0	0	0	0	0
3/31/2024 14:56	46002	BERW_T2	2	2	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/31/2024 14:56	44301	BEAV_T2	15	17	2	0.63	0.59	-0.04	0	0	0	0	0	0	0	0
3/31/2024 14:56	10805	CHHI_T2	1	1	0	7.3	7.5	0.2	-0.76	-0.78	0	0	0	0	0	0
3/31/2024 14:56	44302	BEAV_T2	490	523	33	0.8	0.99	0.19	0.25	0.26	0	0	0	0	0	0
3/31/2024 14:56	60701	BREC_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
3/31/2024 14:56	59101	WALK_T2	0	0	0	0	0	0	2.53	2.34	0	0	0	0	0	0
3/31/2024 14:56	59102	WALK_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/31/2024 14:56	46004	BERW_T2	0	3	3	0	0.17	0.17	-0.92	-0.91	0	0	0	0	0	0
3/31/2024 14:57	67603	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/31/2024 14:57	67605	WARW_T1	41	56	15	0.71	0.67	-0.04	-1.24	-1.24	0	0	0	0	0	0
3/31/2024 14:57	44301	BEAV_T2	15	17	2	0.63	0.59	-0.04	0	0	0	0	0	0	0	0
3/31/2024 14:57	56501	ROCK_T2	9	11	2	0.56	0.91	0.35	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 14:57	44302	BEAV_T2	490	523	33	0.8	0.99	0.19	0.25	0.26	0	0	0	0	0	0
3/31/2024 14:57	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/31/2024 14:58	40902	JESH_T1	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
3/31/2024 14:58	53501	EVIL_T2	6	7	1	0.45	0.53	0.08	-0.8	-0.86	0	0	0	0	0	0
3/31/2024 14:59	53501	EVIL_T2	6	7	1	0.45	0.53	0.08	-0.8	-0.86	0	0	0	0	0	0
3/31/2024 14:59	64802	MONE_T2	3	2	-1	0.23	0.35	0.12	0	0	0	0	0	0	0	0
3/31/2024 14:59	64801	MONE_T2	35	17	-18	0.27	0.32	0.05	-0.43	-0.44	0	0	0	0	0	0
3/31/2024 15:00	46602	LACR_T1	1	1	0	0.5	0.1	-0.4	-1.28	-1.32	0	0	0	0	0	0
3/31/2024 15:01	64305	LINC_T1	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
3/31/2024 15:01	40101	HUNT_T2	0	0	0	0	0	0	-1.45	-1.5	0	0	0	0	0	0
3/31/2024 15:02	64802	MONE_T2	2	2	0	0.3	0.4	0.1	0.12	0.14	0	0	0	0	0	0
3/31/2024 15:02	64801	MONE_T2	16	24	8	0.33	0.26	-0.07	0	0	0	0	0	0	0	0
3/31/2024 15:02	40101	HUNT_T2	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
3/31/2024 15:02	64305	LINC_T1	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
3/31/2024 15:04	51401	LYKE_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
3/31/2024 15:05	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/31/2024 15:05	56501	ROCK_T2	11	11	0	0.6	0.95	0.35	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 15:05	54206	PENN_T2	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
3/31/2024 15:07	56501	ROCK_T2	11	11	0	0.6	0.95	0.35	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/31/2024 15:07	64305	LINC_T1	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
3/31/2024 15:07	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/31/2024 15:08	20106	AVOC_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/31/2024 15:08	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/31/2024 15:08	20102	AVOC_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/31/2024 15:08	20103	AVOC_T1	2	4	2	0.3	0.13	-0.17	-0.39	-0.4	0	0	0	0	0	0
3/31/2024 15:08	56501	ROCK_T2	11	11	0	0.6	0.95	0.35	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 15:08	15704	TANN_T1	0	0	0	0	0	0	-1.24	-1.2	0	0	0	0	0	0
3/31/2024 15:08	15703	TANN_T2	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
3/31/2024 15:10	44302	BEAV_T2	506	524	18	0.94	0.99	0.05	0.26	0.26	0	0	0	0	0	0
3/31/2024 15:10	44301	BEAV_T2	15	17	2	0.63	0.64	0.01	0	0	0	0	0	0	0	0
3/31/2024 15:11	42501	ALTA_T2	0	0	0	0	0	0	0.03	-0.08	1	1	0	600	600	0
3/31/2024 15:12	40703	FFLD_T1	4	4	0	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
3/31/2024 15:12	40701	FFLD_T1	80	77	-3	0.6	0.49	-0.11	0	0	0	0	0	0	0	0
3/31/2024 15:12	40702	FFLD_T1	206	203	-3	0.54	0.52	-0.02	-1.4	-1.41	1	1	0	1200	1200	0
3/31/2024 15:13	56501	ROCK_T2	11	11	0	0.6	0.95	0.35	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 15:13	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/31/2024 15:14	44302	BEAV_T2	506	524	18	0.94	0.99	0.05	0.26	0.26	0	0	0	0	0	0
3/31/2024 15:14	44301	BEAV_T2	15	17	2	0.63	0.64	0.01	0	0	0	0	0	0	0	0
3/31/2024 15:15	45001	LIME_2	12	20	8	0.21	0.15	-0.06	0	0	0	0	0	0	0	0
3/31/2024 15:15	45003	LIME_2	1	1	0	3.7	3.6	-0.1	0	0	0	0	0	0	0	0
3/31/2024 15:16	64201	KINZ_T1	118	107	-11	0.55	0.54	-0.01	0	0	0	0	0	0	0	0
3/31/2024 15:16	64203	KINZ_T1	941	839	-102	0.78	0.75	-0.03	-0.19	-0.14	0	0	0	0	0	0
3/31/2024 15:16	64202	KINZ_T1	111	91	-20	0.7	0.78	0.08	0.51	0.47	0	0	0	0	0	0
3/31/2024 15:16	64204	KINZ_T1	670	544	-126	0.37	0.38	0.01	0	0	0	0	0	0	0	0
3/31/2024 15:16	24105	EHAZ_T1	4	4	0	6	6.25	0.25	-2.01	-2.02	1	1	0	1200	1200	0
3/31/2024 15:17	64305	LINC_T1	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
3/31/2024 15:18	63201	MGTN_T2	1	0	-1	0.6	0	-0.6	0.01	0	1	1	0	600	600	0
3/31/2024 15:18	64702	LITI_T2	0	0	0	0	0	0	-0.81	-0.79	0	0	0	0	0	0
3/31/2024 15:20	64204	KINZ_T1	670	544	-126	0.37	0.38	0.01	0	0	0	0	0	0	0	0
3/31/2024 15:20	64203	KINZ_T1	941	839	-102	0.78	0.75	-0.03	0	0	0	0	0	0	0	0
3/31/2024 15:20	64201	KINZ_T1	118	107	-11	0.55	0.54	-0.01	0.6	0.59	0	0	0	0	0	0
3/31/2024 15:20	64202	KINZ_T1	111	91	-20	0.7	0.78	0.08	0	0	0	0	0	0	0	0
3/31/2024 15:21	24105	EHAZ_T1	4	4	0	6	6.25	0.25	-2.01	-2.02	1	1	0	1200	1200	0
3/31/2024 15:22	64305	LINC_T1	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
3/31/2024 15:24	56504	ROCK_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
3/31/2024 15:24	56501	ROCK_T2	11	10	-1	0.91	0.93	0.02	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 15:24	56802	BENV_T2	1	3	2	0.8	0.5	-0.3	-1.61	-1.58	0	0	0	0	0	0
3/31/2024 15:29	56504	ROCK_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
3/31/2024 15:29	56501	ROCK_T2	11	10	-1	0.91	0.93	0.02	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 15:29	56802	BENV_T2	1	3	2	0.8	0.5	-0.3	-1.61	-1.58	0	0	0	0	0	0
3/31/2024 15:33	64305	LINC_T1	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
3/31/2024 15:34	56504	ROCK_T2	1	3	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
3/31/2024 15:34	56501	ROCK_T2	10	11	1	0.91	0.96	0.05	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 15:38	64305	LINC_T1	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
3/31/2024 15:39	56501	ROCK_T2	10	11	1	0.91	0.96	0.05	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 15:39	56504	ROCK_T2	1	3	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
3/31/2024 15:49	56501	ROCK_T2	10	15	5	0.78	0.86	0.08	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 15:49	56504	ROCK_T2	3	4	1	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
3/31/2024 15:50	14403	SSLA_T1	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
3/31/2024 15:50	56504	ROCK_T2	3	4	1	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
3/31/2024 15:50	14402	SSLA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/31/2024 15:50	56501	ROCK_T2	10	15	5	0.78	0.86	0.08	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 15:50	14401	SSLA_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
3/31/2024 15:50	14404	SSLA_T1	1	1	0	4.9	5.6	0.7	0	0	0	0	0	0	0	0
3/31/2024 15:51	14401	SSLA_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
3/31/2024 15:51	14404	SSLA_T1	1	1	0	4.9	5.6	0.7	0	0	0	0	0	0	0	0
3/31/2024 15:51	14402	SSLA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/31/2024 15:51	14403	SSLA_T1	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
3/31/2024 15:53	44301	BEAV_T2	13	19	6	0.67	0.71	0.04	0	0	0	0	0	0	0	0
3/31/2024 15:53	44302	BEAV_T2	511	543	32	0.85	1.02	0.17	0.3	0.28	0	0	0	0	0	0
3/31/2024 15:53	56504	ROCK_T2	3	4	1	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
3/31/2024 15:53	56501	ROCK_T2	10	15	5	0.78	0.86	0.08	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 15:54	14702	TREX_T2	1	1	0	0.5	0.2	-0.3	0.36	0.34	0	0	0	0	0	0
3/31/2024 15:55	56504	ROCK_T2	3	4	1	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
3/31/2024 15:55	56501	ROCK_T2	10	15	5	0.78	0.86	0.08	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 16:06	56501	ROCK_T2	11	19	8	0.95	0.64	-0.31	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 16:06	56504	ROCK_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
3/31/2024 16:09	40201	BEGA_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/31/2024 16:10	40201	BEGA_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/31/2024 16:11	56504	ROCK_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
3/31/2024 16:11	56501	ROCK_T2	11	19	8	0.95	0.64	-0.31	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 16:14	24105	EHAZ_T1	4	4	0	6.08	5.73	-0.35	-2.02	-2.05	1	1	0	1200	1200	0
3/31/2024 16:14	24102	EHAZ_T1	5	6	1	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
3/31/2024 16:19	24102	EHAZ_T1	6	4	-2	0.4	0.4	0	0	0	0	0	0	0	0	0
3/31/2024 16:19	24105	EHAZ_T1	4	4	0	5.9	5.75	-0.15	-2.02	-2.05	1	1	0	1200	1200	0
3/31/2024 16:22	56504	ROCK_T2	4	1	-3	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
3/31/2024 16:22	56501	ROCK_T2	14	19	5	0.83	0.61	-0.22	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 16:24	44302	BEAV_T2	535	517	-18	0.97	0.96	-0.01	0.28	0.28	0	0	0	0	0	0
3/31/2024 16:24	44301	BEAV_T2	19	18	-1	0.7	0.67	-0.03	0	0	0	0	0	0	0	0
3/31/2024 16:27	56501	ROCK_T2	14	19	5	0.83	0.61	-0.22	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 16:27	56504	ROCK_T2	4	1	-3	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
3/31/2024 16:37	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/31/2024 16:37	56501	ROCK_T2	19	13	-6	0.61	0.69	0.08	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 16:42	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/31/2024 16:42	56501	ROCK_T2	19	13	-6	0.61	0.69	0.08	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 17:24	20403	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 17:24	20401	ASHF_T2	0	0	0	0	0	0	-0.49	-0.53	0	0	0	0	0	0
3/31/2024 17:58	41801	GOCI_T2	15	0	-15	0.14	0	-0.14	0	0	0	0	0	0	0	0
3/31/2024 18:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 20:18	46801	HEPB_T2	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
3/31/2024 20:59	52404	GRPA_T2	0	0	0	0	0	0	-0.44	-0.49	0	0	0	0	0	0
3/31/2024 20:59	52401	GRPA_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
3/31/2024 20:59	52402	GRPA_T2	1	1	0	1.6	2.5	0.9	0	0	0	0	0	0	0	0
3/31/2024 21:14	46801	HEPB_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
3/31/2024 21:20	13901	SEID_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	1200	1200	0
3/31/2024 21:21	20401	ASHF_T2	0	1	1	0	0.1	0.1	-0.5	-0.54	0	0	0	0	0	0
3/31/2024 21:23	46203	DANV_T2	0	53	53	0	0.2	0.2	-2.41	-2.44	0	0	0	0	0	0
3/31/2024 21:23	15704	TANN_T1	0	0	0	0	0	0	-1.42	-1.47	0	0	0	0	0	0
3/31/2024 21:23	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
3/31/2024 21:24	40603	PIGR_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
3/31/2024 21:24	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/31/2024 21:24	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/31/2024 21:24	20403	ASHF_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
3/31/2024 21:24	27502	WEIS_T2	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
3/31/2024 21:24	40602	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/31/2024 21:24	16301	ALPA_T1	1	1	0	0.1	0.2	0.1	-0.55	-0.54	0	0	0	0	0	0
3/31/2024 21:24	64201	KINZ_T1	1	6	5	1	0.25	-0.75	0	0	0	0	0	0	0	0
3/31/2024 21:24	64203	KINZ_T1	0	0	0	0	0	0	-0.14	-0.2	0	0	0	0	0	0
3/31/2024 21:25	28403	HART_T2	0	0	0	0	0	0	-0.91	-0.93	1	1	0	900	900	0
3/31/2024 21:25	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 21:25	66504	SMAN_T2	0	0	0	0	0	0	-1.39	-1.38	0	0	0	0	0	0
3/31/2024 21:26	67605	WARW_T1	9	15	6	0.18	0.42	0.24	-1.03	-1.08	0	0	0	0	0	0
3/31/2024 21:26	10805	CHHI_T2	1	1	0	7.5	7.3	-0.2	-2.61	-2.63	2	2	0	1200	1200	0
3/31/2024 21:26	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/31/2024 21:26	10801	CHHI_T1	0	0	0	0	0	0	-1.06	-1.06	1	1	0	900	900	0
3/31/2024 21:26	12701	MACU_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
3/31/2024 21:26	45303	WBER_T2	7	8	1	0.3	0.65	0.35	-0.43	-0.49	0	0	0	0	0	0
3/31/2024 21:26	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 21:26	42501	ALTA_T2	0	0	0	0	0	0	-0.12	-0.11	1	1	0	600	600	0
3/31/2024 21:27	52004	LING_T2	1	1	0	0.4	0.2	-0.2	0.09	0.03	0	0	0	0	0	0
3/31/2024 21:27	14403	SSLA_T1	0	1	1	0	1.8	1.8	0.52	0.51	0	0	0	0	0	0
3/31/2024 21:27	26402	INOR_T1	0	0	0	0	0	0	-0.51	-0.55	0	0	0	0	0	0
3/31/2024 21:27	14404	SSLA_T1	1	1	0	4.2	4.6	0.4	0	0	0	0	0	0	0	0
3/31/2024 21:27	64201	KINZ_T1	1	6	5	1	0.25	-0.75	0.71	0.62	0	0	0	0	0	0
3/31/2024 21:27	64101	REFR_T1	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
3/31/2024 21:27	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 21:27	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/31/2024 21:27	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 21:27	14802	TREI_T2	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
3/31/2024 21:27	13302	ORVI_T2	0	0	0	0	0	0	1.15	1.2	0	0	0	0	0	0
3/31/2024 21:28	16402	MOPO_T1	0	1	1	0	0	0	-0.08	-0.09	0	0	0	0	0	0
3/31/2024 21:28	64201	KINZ_T1	1	6	5	1	0.25	-0.75	0.71	0.62	0	0	0	0	0	0
3/31/2024 21:28	64902	MILL_T2	0	0	0	0	0	0	-1.48	-1.51	1	1	0	900	900	0
3/31/2024 21:28	16301	ALPA_T1	1	1	0	0.1	0.2	0.1	-0.55	-0.54	0	0	0	0	0	0
3/31/2024 21:28	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 21:28	64801	MONE_T2	1	2	1	0.1	0.4	0.3	-0.42	-0.45	0	0	0	0	0	0
3/31/2024 21:28	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/31/2024 21:28	44601	SALE_T2	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
3/31/2024 21:29	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/31/2024 21:29	25501	MADI_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/31/2024 21:29	10705	CATA_T2	0	0	0	0	0	0	-1.03	-1.07	1	1	0	900	900	0
3/31/2024 21:29	25503	MADI_T1	1	5	4	0.1	0.13	0.03	-1.01	-1.02	0	0	0	0	0	0
3/31/2024 21:29	64202	KINZ_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
3/31/2024 21:29	40602	PIGR_T1	1	0	-1	0.1	0	-0.1	-1.58	-1.69	2	2	0	1200	1200	0
3/31/2024 21:29	52004	LING_T2	1	1	0	0.4	0.2	-0.2	0.09	0.03	0	0	0	0	0	0
3/31/2024 21:29	67401	WAKE_T2	0	0	0	0	0	0	-0.96	-0.97	0	0	0	0	0	0
3/31/2024 21:29	64201	KINZ_T1	1	6	5	1	0.25	-0.75	0	0	0	0	0	0	0	0
3/31/2024 21:29	16302	ALPA_T2	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
3/31/2024 21:29	45501	DERR_T2	0	0	0	0	0	0	-0.78	-0.85	2	2	0	1800	1800	0
3/31/2024 21:29	14702	TREX_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
3/31/2024 21:29	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 21:30	64204	KINZ_T1	1	6	5	1	0.32	-0.68	0	0	0	0	0	0	0	0
3/31/2024 21:30	64202	KINZ_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
3/31/2024 21:30	64201	KINZ_T1	4	7	3	0.28	0.39	0.11	0	0	0	0	0	0	0	0
3/31/2024 21:30	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 21:30	43201	MVIL_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
3/31/2024 21:30	56501	ROCK_T2	6	11	5	0.3	0.35	0.05	-0.02	-0.02	0	0	0	0	0	0
3/31/2024 21:30	64203	KINZ_T1	0	6	6	0	0.13	0.13	-0.14	-0.2	0	0	0	0	0	0
3/31/2024 21:30	58402	MORO_T1	0	0	0	0	0	0	-0.67	-0.64	2	2	0	1500	1500	0
3/31/2024 21:30	67402	WAKE_T2	0	0	0	0	0	0	0.05	0.1	0	0	0	0	0	0
3/31/2024 21:31	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 21:31	47001	HUGH_T2	0	0	0	0	0	0	-0.96	-0.89	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/31/2024 21:31	67204	TEHI_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
3/31/2024 21:31	53903	HALI_T2	2	2	0	0.9	0.55	-0.35	-0.21	-0.21	0	0	0	0	0	0
3/31/2024 21:31	58001	WCAR_T1	3	4	1	0.17	0.55	0.38	0	0	0	0	0	0	0	0
3/31/2024 21:31	53902	HALI_T2	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
3/31/2024 21:31	45303	WBER_T2	8	8	0	0.38	0.79	0.41	-0.43	-0.49	0	0	0	0	0	0
3/31/2024 21:31	65001	NEFF_T2	0	11	11	0	0.13	0.13	-1.45	-1.44	1	1	0	1200	1200	0
3/31/2024 21:31	57304	MOAL_T2	0	0	0	0	0	0	-0.62	-0.44	0	0	0	0	0	0
3/31/2024 21:31	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 21:31	14403	SSLA_T1	1	1	0	2.1	0	-2.1	0.52	0.51	0	0	0	0	0	0
3/31/2024 21:31	60801	BUCK_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
3/31/2024 21:31	14404	SSLA_T1	1	1	0	4.4	4.8	0.4	0	0	0	0	0	0	0	0
3/31/2024 21:31	60701	BREC_T1	0	0	0	0	0	0	-1.26	-1.21	2	2	0	1200	1200	0
3/31/2024 21:31	56802	BENV_T2	0	0	0	0	0	0	-4.64	-4.68	0	0	0	0	0	0
3/31/2024 21:31	58003	WCAR_T1	1	1	0	0.8	1.1	0.3	-0.24	-0.19	1	1	0	600	600	0
3/31/2024 21:31	53901	HALI_T2	1	5	4	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
3/31/2024 21:31	57303	MOAL_T2	1	1	0	7.9	7.7	-0.2	0	0	0	0	0	0	0	0
3/31/2024 21:31	40502	CRES_T2	0	1	1	0	0.1	0.1	0.47	0.46	0	0	0	0	0	0
3/31/2024 21:32	60803	BUCK_T1	0	0	0	0	0	0	-0.58	-0.57	1	1	0	600	600	0
3/31/2024 21:32	46004	BERW_T2	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
3/31/2024 21:32	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 21:32	42201	SHEN_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
3/31/2024 21:32	53102	WTWN_T1	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
3/31/2024 21:32	56501	ROCK_T2	6	11	5	0.3	0.35	0.05	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 21:32	43202	MVIL_T2	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
3/31/2024 21:33	45501	DERR_T2	0	0	0	0	0	0	-0.78	-0.85	2	2	0	1800	1800	0
3/31/2024 21:33	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 21:33	40902	JESH_T1	0	0	0	0	0	0	-0.97	-0.96	0	0	0	0	0	0
3/31/2024 21:33	51401	LYKE_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
3/31/2024 21:33	56802	BENV_T2	0	0	0	0	0	0	-1.55	-1.56	0	0	0	0	0	0
3/31/2024 21:33	56603	HAMP_T1	0	0	0	0	0	0	-1.27	-1.27	0	0	0	0	0	0
3/31/2024 21:33	59101	WALK_T2	0	1	1	0	0	0	0.98	1.01	0	0	0	0	0	0
3/31/2024 21:33	40602	PIGR_T1	0	0	0	0	0	0	-0.79	-0.85	1	1	0	600	600	0
3/31/2024 21:33	67204	TEHI_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
3/31/2024 21:34	53501	EVIL_T2	2	3	1	0.35	0.47	0.12	0	0	0	0	0	0	0	0
3/31/2024 21:34	42901	MIDD_T2	412	492	80	0.46	0.63	0.17	0	0	0	0	0	0	0	0
3/31/2024 21:34	12701	MACU_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
3/31/2024 21:34	46602	LACR_T1	0	0	0	0	0	0	-1.23	-1.22	0	0	0	0	0	0
3/31/2024 21:34	42902	MIDD_T2	196	253	57	0.51	0.69	0.18	-0.72	-0.68	0	0	0	0	0	0
3/31/2024 21:34	56501	ROCK_T2	6	11	5	0.3	0.35	0.05	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 21:34	42201	SHEN_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
3/31/2024 21:34	42903	MIDD_T2	101	133	32	0.51	0.65	0.14	0	0	0	0	0	0	0	0
3/31/2024 21:34	26002	WDAM_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
3/31/2024 21:34	56802	BENV_T2	0	0	0	0	0	0	-1.55	-1.56	0	0	0	0	0	0
3/31/2024 21:34	26001	WDAM_T1	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
3/31/2024 21:34	65001	NEFF_T2	0	11	11	0	0.13	0.13	-1.45	-1.44	1	1	0	1200	1200	0
3/31/2024 21:34	53502	EVIL_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
3/31/2024 21:35	66303	MCGO_T2	1	12	11	1.1	0.12	-0.98	0	0	0	0	0	0	0	0
3/31/2024 21:35	43103	SMIL_T2	1	4	3	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/31/2024 21:35	40703	FFLD_T1	2	4	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/31/2024 21:35	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 21:35	43102	SMIL_T2	5	7	2	0.22	0.37	0.15	0	0	0	0	0	0	0	0
3/31/2024 21:35	66302	MCGO_T2	0	5	5	0	0.14	0.14	-0.9	-0.9	0	0	0	0	0	0
3/31/2024 21:35	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 21:35	45602	WOOL_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
3/31/2024 21:35	44302	BEAV_T2	211	327	116	0.59	0.68	0.09	0.22	0.2	0	0	0	0	0	0
3/31/2024 21:35	40101	HUNT_T2	0	0	0	0	0	0	-1.45	-1.42	0	0	0	0	0	0
3/31/2024 21:35	59101	WALK_T2	0	1	1	0	0	0	2.94	3.04	0	0	0	0	0	0
3/31/2024 21:35	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 21:35	43108	SMIL_T2	0	0	0	0	0	0	-1.17	-1.11	1	1	0	1200	1200	0
3/31/2024 21:35	52402	GRPA_T2	1	2	1	3.2	2	-1.2	-0.91	-0.94	0	0	0	0	0	0
3/31/2024 21:35	43101	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/31/2024 21:35	44301	BEAV_T2	4	8	4	0.63	0.54	-0.09	0	0	0	0	0	0	0	0
3/31/2024 21:35	40702	FFLD_T1	132	178	46	0.25	0.36	0.11	-1.38	-1.37	1	1	0	1200	1200	0
3/31/2024 21:35	40701	FFLD_T1	27	51	24	0.28	0.34	0.06	0	0	0	0	0	0	0	0
3/31/2024 21:36	64802	MONE_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
3/31/2024 21:36	67402	WAKE_T2	0	0	0	0	0	0	0.05	0.1	0	0	0	0	0	0
3/31/2024 21:36	56802	BENV_T2	0	0	0	0	0	0	-1.55	-1.56	0	0	0	0	0	0
3/31/2024 21:36	58402	MORO_T1	0	0	0	0	0	0	-0.67	-0.64	2	2	0	1500	1500	0
3/31/2024 21:36	42901	MIDD_T2	412	492	80	0.46	0.63	0.17	0	0	0	0	0	0	0	0
3/31/2024 21:36	64801	MONE_T2	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/31/2024 21:36	63201	MGTN_T2	0	0	0	0	0	0	0.02	0.07	1	1	0	600	600	0
3/31/2024 21:36	46203	DANV_T2	28	81	53	0.18	0.29	0.11	-2.41	-2.44	0	0	0	0	0	0
3/31/2024 21:36	58003	WCAR_T1	1	1	0	0.8	1.1	0.3	-0.24	-0.19	1	1	0	600	600	0
3/31/2024 21:36	55002	NEWP_T1	3	5	2	0.17	0.42	0.25	-0.3	-0.3	0	0	0	0	0	0
3/31/2024 21:36	42902	MIDD_T2	196	253	57	0.51	0.69	0.18	-0.72	-0.68	0	0	0	0	0	0
3/31/2024 21:36	58001	WCAR_T1	3	4	1	0.17	0.55	0.38	0	0	0	0	0	0	0	0
3/31/2024 21:36	46801	HEPB_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
3/31/2024 21:36	42903	MIDD_T2	101	133	32	0.51	0.65	0.14	0	0	0	0	0	0	0	0
3/31/2024 21:37	56802	BENV_T2	0	0	0	0	0	0	-1.55	-1.56	0	0	0	0	0	0
3/31/2024 21:37	41902	REED_T1	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
3/31/2024 21:37	58401	MORO_T1	0	0	0	0	0	0	-1.32	-1.32	1	1	0	600	600	0
3/31/2024 21:37	46004	BERW_T2	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
3/31/2024 21:37	45702	LIND_T2	0	1	1	0	0.3	0.3	-0.58	-0.58	0	0	0	0	0	0
3/31/2024 21:37	45303	WBER_T2	8	8	0	0.38	0.79	0.41	-0.43	-0.49	0	0	0	0	0	0
3/31/2024 21:37	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 21:38	42902	MIDD_T2	196	253	57	0.51	0.69	0.18	-0.68	-0.71	0	0	0	0	0	0
3/31/2024 21:38	59101	WALK_T2	0	1	1	0	0	0	1.01	1.06	0	0	0	0	0	0
3/31/2024 21:38	43104	SMIL_T2	0	0	0	0	0	0	-0.88	-0.88	1	1	0	300	300	0
3/31/2024 21:38	53903	HALI_T2	2	2	0	0.9	0.55	-0.35	-0.21	-0.22	0	0	0	0	0	0
3/31/2024 21:38	43103	SMIL_T2	1	4	3	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/31/2024 21:38	44302	BEAV_T2	211	327	116	0.59	0.68	0.09	0.2	0.2	0	0	0	0	0	0
3/31/2024 21:38	45003	LIME_2	1	1	0	3.6	3.9	0.3	0	0	0	0	0	0	0	0
3/31/2024 21:38	53901	HALI_T2	1	5	4	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
3/31/2024 21:38	53902	HALI_T2	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
3/31/2024 21:38	64202	KINZ_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
3/31/2024 21:38	56501	ROCK_T2	6	11	5	0.3	0.35	0.05	-0.01	-0.01	0	0	0	0	0	0
3/31/2024 21:38	52403	GRPA_T2	0	1	1	0	0	0	-0.08	-0.09	0	0	0	0	0	0
3/31/2024 21:38	42903	MIDD_T2	101	133	32	0.51	0.65	0.14	0	0	0	0	0	0	0	0
3/31/2024 21:38	45001	LIME_2	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
3/31/2024 21:38	60701	BREC_T1	0	0	0	0	0	0	-0.6	-0.62	1	1	0	600	600	0
3/31/2024 21:38	42901	MIDD_T2	412	492	80	0.46	0.63	0.17	0	0	0	0	0	0	0	0
3/31/2024 21:38	43101	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/31/2024 21:38	64201	KINZ_T1	4	7	3	0.28	0.39	0.11	0	0	0	0	0	0	0	0
3/31/2024 21:38	44301	BEAV_T2	4	8	4	0.63	0.54	-0.09	0	0	0	0	0	0	0	0
3/31/2024 21:38	43102	SMIL_T2	5	7	2	0.22	0.37	0.15	0	0	0	0	0	0	0	0
3/31/2024 21:38	55002	NEWP_T1	3	5	2	0.17	0.42	0.25	-0.3	-0.32	0	0	0	0	0	0
3/31/2024 21:38	64204	KINZ_T1	1	6	5	1	0.32	-0.68	0	0	0	0	0	0	0	0
3/31/2024 21:38	64203	KINZ_T1	0	6	6	0	0.13	0.13	-0.2	-0.15	0	0	0	0	0	0
3/31/2024 21:38	52402	GRPA_T2	1	2	1	3.2	2	-1.2	0	0	0	0	0	0	0	0
3/31/2024 21:39	42902	MIDD_T2	196	253	57	0.51	0.69	0.18	-0.68	-0.71	0	0	0	0	0	0
3/31/2024 21:39	66302	MCGO_T2	0	5	5	0	0.14	0.14	-0.9	-1.08	0	0	0	0	0	0
3/31/2024 21:39	42903	MIDD_T2	101	133	32	0.51	0.65	0.14	0	0	0	0	0	0	0	0
3/31/2024 21:39	67901	WNHO_T2	116	136	20	0.29	0.34	0.05	-0.84	-0.66	0	0	0	0	0	0
3/31/2024 21:39	66303	MCGO_T2	1	12	11	1.1	0.12	-0.98	0	0	0	0	0	0	0	0
3/31/2024 21:39	42901	MIDD_T2	412	492	80	0.46	0.63	0.17	0	0	0	0	0	0	0	0
3/31/2024 21:40	42901	MIDD_T2	412	492	80	0.46	0.63	0.17	0	0	0	0	0	0	0	0
3/31/2024 21:40	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.67	0	0	0	0	0	0
3/31/2024 21:40	42902	MIDD_T2	196	253	57	0.51	0.69	0.18	-0.68	-0.71	0	0	0	0	0	0
3/31/2024 21:40	42903	MIDD_T2	101	133	32	0.51	0.65	0.14	0	0	0	0	0	0	0	0
3/31/2024 21:40	58401	MORO_T1	0	0	0	0	0	0	-1.32	-1.36	1	1	0	600	600	0
3/31/2024 21:40	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2024 21:40	64305	LINC_T1	0	0	0	0	0	0	-0.74	-0.8	0	0	0	0	0	0
3/31/2024 21:41	41902	REED_T1	0	0	0	0	0	0	0.81	0.81	0	0	0	0	0	0
3/31/2024 21:41	66703	STRA_T1	2	6	4	0.25	0.27	0.02	-0.51	-0.52	0	0	0	0	0	0
3/31/2024 21:43	53902	HALI_T2	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
3/31/2024 21:43	53901	HALI_T2	1	5	4	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
3/31/2024 21:43	53903	HALI_T2	2	2	0	0.9	0.55	-0.35	-0.21	-0.22	0	0	0	0	0	0
3/31/2024 21:43	45001	LIME_2	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
3/31/2024 21:43	45003	LIME_2	1	1	0	3.6	3.9	0.3	0	0	0	0	0	0	0	0
3/31/2024 21:45	44301	BEAV_T2	7	9	2	0.45	0.54	0.09	0	0	0	0	0	0	0	0
3/31/2024 21:45	44302	BEAV_T2	241	358	117	0.6	0.69	0.09	0.2	0.2	0	0	0	0	0	0
3/31/2024 21:47	16301	ALPA_T1	1	1	0	0.2	0.4	0.2	-0.54	-0.57	0	0	0	0	0	0
3/31/2024 21:49	64301	LINC_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/31/2024 22:59	60101	COCA_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
4/1/2024 8:11	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 8:11	46203	DANV_T2	20	106	86	0.16	0.45	0.29	-1.04	-1.04	0	0	0	0	0	0
4/1/2024 8:17	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 8:18	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 8:20	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 8:36	59101	WALK_T2	0	0	0	0	0	0	1.66	2.04	0	0	0	0	0	0
4/1/2024 8:53	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 8:54	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 8:58	53601	DALM_T2	0	1	1	0	1	1	-0.08	-0.09	1	1	0	900	900	0
4/1/2024 9:02	55002	NEWP_T1	6	6	0	0.8	0.67	-0.13	-0.23	-0.21	0	0	0	0	0	0
4/1/2024 9:04	55002	NEWP_T1	6	6	0	0.8	0.67	-0.13	-0.23	-0.21	0	0	0	0	0	0
4/1/2024 9:09	67402	WAKE_T2	0	0	0	0	0	0	0.33	0.37	1	1	0	600	600	0
4/1/2024 9:22	59101	WALK_T2	1	0	-1	0.1	0	-0.1	2.22	2.15	0	0	0	0	0	0
4/1/2024 9:23	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 9:24	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 9:24	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.52	0	0	0	0	0	0
4/1/2024 9:24	59101	WALK_T2	1	0	-1	0.1	0	-0.1	2.15	1.54	0	0	0	0	0	0
4/1/2024 9:26	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.52	0	0	0	0	0	0
4/1/2024 9:28	40101	HUNT_T2	26	45	19	0.35	0.24	-0.11	-0.14	-0.14	0	0	0	0	0	0
4/1/2024 9:30	46801	HEPB_T2	3	2	-1	0.37	0.5	0.13	0.62	0.61	0	0	0	0	0	0
4/1/2024 9:30	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/1/2024 9:31	43202	MVIL_T2	6	9	3	0.13	0.18	0.05	-0.51	-0.52	0	0	0	0	0	0
4/1/2024 9:36	56501	ROCK_T2	1	7	6	0.4	0.18	-0.22	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 9:37	56802	BENV_T2	1	1	0	0.9	0.9	0	-1.35	-1.37	0	0	0	0	0	0
4/1/2024 9:37	42201	SHEN_T2	0	0	0	0	0	0	-0.15	-0.12	1	1	0	600	600	0
4/1/2024 9:37	26001	WDAM_T1	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
4/1/2024 9:37	56501	ROCK_T2	1	7	6	0.4	0.18	-0.22	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 9:38	46206	DANV_T2	0	0	0	0	0	0	2.16	2.03	1	1	0	1200	1200	0
4/1/2024 9:38	56802	BENV_T2	1	1	0	0.9	0.9	0	-1.37	-1.32	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/1/2024 9:38	46203	DANV_T2	72	53	-19	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
4/1/2024 9:39	56802	BENV_T2	1	1	0	0.9	0.9	0	-1.37	-1.32	0	0	0	0	0	0
4/1/2024 9:40	56802	BENV_T2	1	1	0	0.9	0.9	0	-1.37	-1.32	0	0	0	0	0	0
4/1/2024 9:41	56501	ROCK_T2	1	7	6	0.4	0.18	-0.22	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 9:42	52402	GRPA_T2	1	1	0	3.5	3.1	-0.4	-0.89	-0.92	0	0	0	0	0	0
4/1/2024 9:42	46206	DANV_T2	0	0	0	0	0	0	2.16	2.03	1	1	0	1200	1200	0
4/1/2024 9:42	46203	DANV_T2	72	53	-19	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
4/1/2024 9:45	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/1/2024 9:45	59301	MCAL_T1	2	2	0	0.4	0.1	-0.3	-1.52	-1.48	1	1	0	600	600	0
4/1/2024 9:45	46801	HEPB_T2	2	3	1	0.5	0.33	-0.17	0.61	0.63	0	0	0	0	0	0
4/1/2024 9:45	64702	LITI_T2	0	0	0	0	0	0	-0.71	-0.65	0	0	0	0	0	0
4/1/2024 9:48	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 9:51	67402	WAKE_T2	0	0	0	0	0	0	0.33	0.39	1	1	0	600	600	0
4/1/2024 9:52	64101	REFR_T1	0	0	0	0	0	0	-0.73	-0.7	0	0	0	0	0	0
4/1/2024 9:52	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 9:52	56802	BENV_T2	1	1	0	0.8	0.9	0.1	-1.37	-1.32	0	0	0	0	0	0
4/1/2024 9:52	56501	ROCK_T2	2	6	4	0.15	0.18	0.03	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 9:53	56802	BENV_T2	1	1	0	0.8	0.9	0.1	-1.32	-1.35	0	0	0	0	0	0
4/1/2024 9:57	14404	SSLA_T1	2	2	0	2.85	2.75	-0.1	0	0	0	0	0	0	0	0
4/1/2024 9:57	56501	ROCK_T2	2	6	4	0.15	0.18	0.03	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 9:57	14403	SSLA_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
4/1/2024 9:58	14404	SSLA_T1	2	2	0	2.85	2.75	-0.1	0	0	0	0	0	0	0	0
4/1/2024 9:58	14403	SSLA_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
4/1/2024 10:00	66503	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/1/2024 10:00	24105	EHAZ_T1	4	4	0	6.05	6.35	0.3	-0.72	-0.71	1	1	0	1200	1200	0
4/1/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	-0.33	-0.34	2	2	0	1200	1200	0
4/1/2024 10:00	46206	DANV_T2	0	0	0	0	0	0	2.03	2.11	1	1	0	1200	1200	0
4/1/2024 10:00	42301	MOWR_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
4/1/2024 10:00	48302	ORWI_T2	2	2	0	0.9	0.65	-0.25	0.09	0.11	0	0	0	0	0	0
4/1/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
4/1/2024 10:00	58003	WCAR_T1	1	1	0	0.5	0.5	0	0	0	1	1	0	600	600	0
4/1/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.58	-0.63	1	1	0	1200	1200	0
4/1/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
4/1/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.37	-0.34	1	1	0	600	600	0
4/1/2024 10:00	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
4/1/2024 10:00	53901	HALI_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/1/2024 10:00	56501	ROCK_T2	6	4	-2	0.18	0.33	0.15	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 10:00	43202	MVIL_T2	0	9	9	0	0.18	0.18	0	0	0	0	0	0	0	0
4/1/2024 10:00	46203	DANV_T2	9	62	53	0.12	0.22	0.1	0	0	0	0	0	0	0	0
4/1/2024 10:00	40101	HUNT_T2	54	32	-22	0.35	0.28	-0.07	0.03	-0.21	0	0	0	0	0	0
4/1/2024 10:00	43201	MVIL_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
4/1/2024 10:00	24101	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 10:00	45602	WOOL_T1	1	1	0	0.2	0.1	-0.1	0.49	0.47	0	0	0	0	0	0
4/1/2024 10:00	40505	CRES_T1	0	1	1	0	0	0	0.48	0.48	0	0	0	0	0	0
4/1/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
4/1/2024 10:00	47101	MARL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	-0.54	-0.55	1	1	0	600	600	0
4/1/2024 10:00	41902	REED_T1	0	3	3	0	0	0	1.01	0.97	0	0	0	0	0	0
4/1/2024 10:00	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/1/2024 10:00	58001	WCAR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/1/2024 10:00	10801	CHHI_T1	0	0	0	0	0	0	-0.76	-0.79	1	1	0	900	900	0
4/1/2024 10:00	41901	REED_T1	9	9	0	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
4/1/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.25	-0.27	2	2	0	1500	1500	0
4/1/2024 10:00	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 10:00	59101	WALK_T2	0	0	0	0	0	0	2	2.2	0	0	0	0	0	0
4/1/2024 10:00	53903	HALI_T2	2	2	0	1.3	1.4	0.1	-0.11	-0.13	0	0	0	0	0	0
4/1/2024 10:00	60101	COCA_T1	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
4/1/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.45	0.52	0	0	0	0	0	0
4/1/2024 10:00	66504	SMAN_T2	0	0	0	0	0	0	-0.81	-0.78	0	0	0	0	0	0
4/1/2024 10:06	26401	INOR_T1	0	0	0	0	0	0	0.98	0.78	0	0	0	0	0	0
4/1/2024 10:06	64801	MONE_T2	10	3	-7	0.29	0.6	0.31	-0.31	-0.31	0	0	0	0	0	0
4/1/2024 10:06	57303	MOAL_T2	1	1	0	7.1	7	-0.1	0	0	0	0	0	0	0	0
4/1/2024 10:06	57304	MOAL_T2	0	1	1	0	0.1	0.1	-0.48	-0.5	0	0	0	0	0	0
4/1/2024 10:06	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/1/2024 10:06	58803	COCO_T1	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
4/1/2024 10:07	67402	WAKE_T2	0	0	0	0	0	0	0.39	0.39	1	1	0	600	600	0
4/1/2024 10:07	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 10:07	53501	EVIL_T2	1	2	1	0.8	0.3	-0.5	-0.65	-0.7	1	1	0	600	600	0
4/1/2024 10:07	60801	BUCK_T1	0	0	0	0	0	0	-0.54	-0.55	1	1	0	600	600	0
4/1/2024 10:07	40902	JESH_T1	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
4/1/2024 10:07	46001	BERW_T1	0	0	0	0	0	0	0.91	1.12	0	0	0	0	0	0
4/1/2024 10:07	40101	HUNT_T2	54	32	-22	0.35	0.28	-0.07	0.03	-0.21	0	0	0	0	0	0
4/1/2024 10:07	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 10:08	46004	BERW_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
4/1/2024 10:08	42902	MIDD_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
4/1/2024 10:08	56501	ROCK_T2	6	4	-2	0.18	0.33	0.15	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 10:08	42903	MIDD_T2	0	2	2	0	0.65	0.65	0.06	-0.02	1	1	0	1200	1200	0
4/1/2024 10:09	59101	WALK_T2	0	0	0	0	0	0	2.2	1.99	0	0	0	0	0	0
4/1/2024 10:09	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 10:11	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 10:11	10801	CHHI_T1	0	0	0	0	0	0	-0.79	-0.79	1	1	0	900	900	0
4/1/2024 10:11	59101	WALK_T2	0	0	0	0	0	0	2.2	1.99	0	0	0	0	0	0
4/1/2024 10:11	20403	ASHF_T2	0	0	0	0	0	0	0.62	0.45	0	0	0	0	0	0
4/1/2024 10:12	53601	DALM_T2	1	1	0	0.2	0.3	0.1	-0.03	-0.05	1	1	0	900	900	0
4/1/2024 10:12	46203	DANV_T2	9	62	53	0.12	0.22	0.1	-1.01	-0.93	0	0	0	0	0	0
4/1/2024 10:13	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 10:14	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 10:14	52402	GRPA_T2	1	1	0	3.1	3.4	0.3	-0.9	-0.9	0	0	0	0	0	0
4/1/2024 10:15	25402	LAHA_T2	0	0	0	0	0	0	-0.81	-0.84	0	0	0	0	0	0
4/1/2024 10:16	55002	NEWP_T1	3	3	0	0.7	0.47	-0.23	-0.21	-0.22	0	0	0	0	0	0
4/1/2024 10:17	64702	LITI_T2	0	0	0	0	0	0	-0.69	-0.75	0	0	0	0	0	0
4/1/2024 10:17	12701	MACU_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
4/1/2024 10:17	64801	MONE_T2	3	2	-1	0.6	0.6	0	0	0	0	0	0	0	0	0
4/1/2024 10:17	55002	NEWP_T1	3	3	0	0.7	0.47	-0.23	-0.21	-0.22	0	0	0	0	0	0
4/1/2024 10:17	64802	MONE_T2	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
4/1/2024 10:17	65001	NEFF_T2	0	0	0	0	0	0	-0.58	-0.57	1	1	0	1200	1200	0
4/1/2024 10:17	46801	HEPB_T2	3	2	-1	0.33	0.5	0.17	0.62	0.61	0	0	0	0	0	0
4/1/2024 10:17	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/1/2024 10:18	43202	MVIL_T2	0	9	9	0	0.19	0.19	-0.5	-0.57	0	0	0	0	0	0
4/1/2024 10:19	56501	ROCK_T2	3	3	0	0.23	0.35	0.12	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 10:20	67204	TEHI_T2	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
4/1/2024 10:23	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 10:23	67204	TEHI_T2	0	0	0	0	0	0	-0.06	-0.02	0	0	0	0	0	0
4/1/2024 10:24	64101	REFR_T1	0	0	0	0	0	0	-0.64	-0.59	0	0	0	0	0	0
4/1/2024 10:24	56802	BENV_T2	1	1	0	0.5	0.8	0.3	-1.36	-1.35	0	0	0	0	0	0
4/1/2024 10:24	20402	ASHF_T2	3	0	-3	1.07	0	-1.07	0	0	0	0	0	0	0	0
4/1/2024 10:24	20403	ASHF_T2	0	0	0	0	0	0	0.45	0.27	0	0	0	0	0	0
4/1/2024 10:25	20402	ASHF_T2	3	0	-3	1.07	0	-1.07	0	0	0	0	0	0	0	0
4/1/2024 10:25	56802	BENV_T2	1	1	0	0.5	0.8	0.3	-1.36	-1.35	0	0	0	0	0	0
4/1/2024 10:25	20403	ASHF_T2	0	0	0	0	0	0	0.45	0.27	0	0	0	0	0	0
4/1/2024 10:26	65001	NEFF_T2	0	0	0	0	0	0	-0.57	-0.58	1	1	0	1200	1200	0
4/1/2024 10:26	45501	DERR_T2	0	0	0	0	0	0	0.82	0.76	2	2	0	1800	1800	0
4/1/2024 10:26	45502	DERR_T2	0	4	4	0	0.5	0.5	0	0	0	0	0	0	0	0
4/1/2024 10:27	45502	DERR_T2	0	4	4	0	0.5	0.5	0	0	0	0	0	0	0	0
4/1/2024 10:27	45501	DERR_T2	0	0	0	0	0	0	0.82	0.76	2	2	0	1800	1800	0
4/1/2024 10:28	47001	HUGH_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
4/1/2024 10:30	46801	HEPB_T2	2	2	0	0.5	0.45	-0.05	0.61	0.6	0	0	0	0	0	0
4/1/2024 10:31	16402	MOPO_T1	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
4/1/2024 10:34	41902	REED_T1	3	0	-3	0.63	0	-0.63	0.98	1.06	0	0	0	0	0	0
4/1/2024 10:34	41901	REED_T1	8	2	-6	0.19	0.1	-0.09	0	0	0	0	0	0	0	0
4/1/2024 10:36	40602	PIGR_T1	0	1	1	0	0.1	0.1	-1.32	-1.26	3	3	0	1800	1800	0
4/1/2024 10:37	16302	ALPA_T2	0	0	0	0	0	0	0.73	0.64	0	0	0	0	0	0
4/1/2024 10:37	42701	AUGU_T1	1	1	0	1.9	2.2	0.3	0	0	2	2	0	1800	1800	0
4/1/2024 10:37	59101	WALK_T2	0	0	0	0	0	0	1.99	1.89	0	0	0	0	0	0
4/1/2024 10:37	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 10:38	42701	AUGU_T1	1	1	0	1.9	2.2	0.3	0	0	2	2	0	1800	1800	0
4/1/2024 10:38	66703	STRA_T1	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
4/1/2024 10:38	40502	CRES_T2	0	4	4	0	0.13	0.13	-0.08	-0.08	0	0	0	0	0	0
4/1/2024 10:38	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 10:39	14404	SSLA_T1	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
4/1/2024 10:39	40502	CRES_T2	0	4	4	0	0.13	0.13	-0.24	-0.24	0	0	0	0	0	0
4/1/2024 10:39	14403	SSLA_T1	0	0	0	0	0	0	-0.26	-0.07	0	0	0	0	0	0
4/1/2024 10:39	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 10:40	14403	SSLA_T1	0	0	0	0	0	0	-0.26	-0.07	0	0	0	0	0	0
4/1/2024 10:40	40502	CRES_T2	0	4	4	0	0.13	0.13	-0.16	-0.16	0	0	0	0	0	0
4/1/2024 10:40	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 10:40	14404	SSLA_T1	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
4/1/2024 10:41	46203	DANV_T2	44	65	21	0.19	0.22	0.03	-0.99	-1	0	0	0	0	0	0
4/1/2024 10:41	62604	ENGL_T1	0	0	0	0	0	0	-0.41	-0.47	1	1	0	600	600	0
4/1/2024 10:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 10:41	67402	WAKE_T2	0	0	0	0	0	0	0.38	0.4	1	1	0	600	600	0
4/1/2024 10:41	40502	CRES_T2	0	4	4	0	0.13	0.13	-0.16	-0.16	0	0	0	0	0	0
4/1/2024 10:42	52403	GRPA_T2	1	3	2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/1/2024 10:42	62604	ENGL_T1	0	0	0	0	0	0	-0.82	-0.95	2	2	0	1200	1200	0
4/1/2024 10:42	52402	GRPA_T2	1	1	0	3.4	2.7	-0.7	0	0	0	0	0	0	0	0
4/1/2024 10:42	40502	CRES_T2	0	4	4	0	0.13	0.13	-0.24	-0.24	0	0	0	0	0	0
4/1/2024 10:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 10:42	52404	GRPA_T2	0	0	0	0	0	0	0.77	0.64	0	0	0	0	0	0
4/1/2024 10:43	52403	GRPA_T2	1	3	2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/1/2024 10:43	45502	DERR_T2	3	2	-1	0.27	0	-0.27	0	0	0	0	0	0	0	0
4/1/2024 10:43	45501	DERR_T2	0	0	0	0	0	0	0.76	0.74	2	2	0	1800	1800	0
4/1/2024 10:43	52402	GRPA_T2	1	1	0	3.4	2.7	-0.7	0	0	0	0	0	0	0	0
4/1/2024 10:43	52404	GRPA_T2	0	0	0	0	0	0	0.77	0.64	0	0	0	0	0	0
4/1/2024 10:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 10:43	40502	CRES_T2	0	4	4	0	0.13	0.13	-0.16	-0.16	0	0	0	0	0	0
4/1/2024 10:44	62604	ENGL_T1	0	0	0	0	0	0	-0.41	-0.47	1	1	0	600	600	0
4/1/2024 10:45	46203	DANV_T2	63	103	40	0.22	0.51	0.29	0	0	0	0	0	0	0	0
4/1/2024 10:45	46206	DANV_T2	0	0	0	0	0	0	2.13	2.12	1	1	0	1200	1200	0
4/1/2024 10:46	64902	MILL_T2	0	0	0	0	0	0	-0.72	-0.75	1	1	0	900	900	0
4/1/2024 10:47	64204	KINZ_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
4/1/2024 10:47	64202	KINZ_T1	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
4/1/2024 10:47	64201	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/1/2024 10:47	64203	KINZ_T1	0	0	0	0	0	0	1.04	0.88	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/1/2024 10:48	46302	ROHR_T1	2	4	2	3	2.05	-0.95	0.19	0.19	0	0	0	0	0	0
4/1/2024 10:48	46301	ROHR_T1	0	55	55	0	0.17	0.17	0	0	0	0	0	0	0	0
4/1/2024 10:50	45402	WBLO_T2	0	1	1	0	0.3	0.3	-0.71	-0.72	0	0	0	0	0	0
4/1/2024 10:51	26002	WDAM_T1	2	2	0	2	0	-2	0	0	0	0	0	0	0	0
4/1/2024 10:51	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.81	-0.84	0	0	0	0	0	0
4/1/2024 10:51	26001	WDAM_T1	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
4/1/2024 10:52	54206	PENN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/1/2024 10:53	56802	BENV_T2	1	1	0	0.6	0.8	0.2	-1.32	-1.31	0	0	0	0	0	0
4/1/2024 10:54	56802	BENV_T2	1	1	0	0.6	0.8	0.2	-1.32	-1.31	0	0	0	0	0	0
4/1/2024 10:57	56802	BENV_T2	1	1	0	0.6	0.8	0.2	-1.32	-1.31	0	0	0	0	0	0
4/1/2024 10:59	40101	HUNT_T2	30	18	-12	0.26	0.28	0.02	-0.19	-0.29	0	0	0	0	0	0
4/1/2024 11:00	56501	ROCK_T2	2	6	4	0.15	0.2	0.05	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 11:01	40101	HUNT_T2	16	11	-5	0.45	0.25	-0.2	-0.19	-0.29	0	0	0	0	0	0
4/1/2024 11:02	64202	KINZ_T1	3	2	-1	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
4/1/2024 11:02	64201	KINZ_T1	1	1	0	0.3	0.2	-0.1	-0.27	-0.28	3	3	0	1500	1500	0
4/1/2024 11:02	64204	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
4/1/2024 11:02	40101	HUNT_T2	16	11	-5	0.45	0.25	-0.2	-0.39	-0.58	0	0	0	0	0	0
4/1/2024 11:02	46801	HEPB_T2	2	2	0	0.45	0.35	-0.1	0.61	0.62	0	0	0	0	0	0
4/1/2024 11:06	55105	WERT_T1	0	0	0	0	0	0	-0.62	-0.59	0	0	0	0	0	0
4/1/2024 11:07	44601	SALE_T2	0	0	0	0	0	0	0.26	0.26	1	1	0	600	600	0
4/1/2024 11:07	52501	PROG_T1	0	0	0	0	0	0	0.41	0.41	1	1	0	300	300	0
4/1/2024 11:07	59101	WALK_T2	0	0	0	0	0	0	1.94	2.02	0	0	0	0	0	0
4/1/2024 11:09	60605	NCOL_T2	0	13	13	0	0.2	0.2	0	0	0	0	0	0	0	0
4/1/2024 11:09	56802	BENV_T2	1	1	0	0.8	1	0.2	-1.31	-1.33	0	0	0	0	0	0
4/1/2024 11:09	27502	WEIS_T2	0	0	0	0	0	0	-0.48	-0.54	0	0	0	0	0	0
4/1/2024 11:10	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 11:11	56501	ROCK_T2	2	6	4	0.15	0.2	0.05	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 11:12	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 11:12	53901	HALI_T2	1	5	4	0.8	0.26	-0.54	0	0	0	0	0	0	0	0
4/1/2024 11:12	53903	HALI_T2	2	3	1	1.05	1.13	0.08	-0.26	-0.29	0	0	0	0	0	0
4/1/2024 11:12	53902	HALI_T2	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
4/1/2024 11:14	59301	MCAL_T1	0	0	0	0	0	0	-1.51	-1.53	1	1	0	600	600	0
4/1/2024 11:14	61801	EELI_T2	1	1	0	0.3	0.2	-0.1	-0.59	-0.79	0	0	0	0	0	0
4/1/2024 11:16	56501	ROCK_T2	3	10	7	0.2	0.21	0.01	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 11:16	55002	NEWP_T1	3	6	3	0.2	0.62	0.42	-0.22	-0.23	0	0	0	0	0	0
4/1/2024 11:17	55002	NEWP_T1	3	6	3	0.2	0.62	0.42	-0.22	-0.23	0	0	0	0	0	0
4/1/2024 11:20	41902	REED_T1	0	0	0	0	0	0	1.08	1.11	0	0	0	0	0	0
4/1/2024 11:21	41902	REED_T1	0	0	0	0	0	0	1.08	1.11	0	0	0	0	0	0
4/1/2024 11:22	53903	HALI_T2	3	2	-1	1.07	1.6	0.53	-0.13	-0.14	0	0	0	0	0	0
4/1/2024 11:22	45602	WOOL_T1	1	1	0	0.1	0.1	0	0.51	0.51	0	0	0	0	0	0
4/1/2024 11:22	53902	HALI_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
4/1/2024 11:22	53901	HALI_T2	1	5	4	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
4/1/2024 11:24	45602	WOOL_T1	1	1	0	0.1	0.1	0	0.51	0.47	0	0	0	0	0	0
4/1/2024 11:24	56802	BENV_T2	1	1	0	0.6	1	0.4	-1.33	-1.29	0	0	0	0	0	0
4/1/2024 11:25	44301	BEAV_T2	0	0	0	0	0	0	0.31	0.25	1	1	0	600	600	0
4/1/2024 11:26	56501	ROCK_T2	3	10	7	0.2	0.21	0.01	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 11:27	45602	WOOL_T1	1	1	0	0.1	0.1	0	0.51	0.47	0	0	0	0	0	0
4/1/2024 11:30	46801	HEPB_T2	2	2	0	0.25	0.2	-0.05	0.64	0.64	0	0	0	0	0	0
4/1/2024 11:31	56501	ROCK_T2	6	9	3	0.2	0.22	0.02	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 11:31	45702	LIND_T2	0	0	0	0	0	0	-0.4	-0.43	0	0	0	0	0	0
4/1/2024 11:32	41901	REED_T1	0	7	7	0	0.14	0.14	0	0	0	0	0	0	0	0
4/1/2024 11:32	41902	REED_T1	0	0	0	0	0	0	1.11	1.13	0	0	0	0	0	0
4/1/2024 11:33	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.77	1	1	0	900	900	0
4/1/2024 11:34	54206	PENN_T2	24	33	9	0.1	0.1	0	0	0	0	0	0	0	0	0
4/1/2024 11:34	57401	SPAN_T1	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
4/1/2024 11:34	57403	SPAN_T1	3	27	24	0.17	0.26	0.09	0.04	0.04	0	0	0	0	0	0
4/1/2024 11:34	54202	PENN_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/1/2024 11:35	46301	ROHR_T1	51	72	21	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
4/1/2024 11:35	46302	ROHR_T1	4	4	0	1.83	2.3	0.47	0.2	0.19	0	0	0	0	0	0
4/1/2024 11:36	41901	REED_T1	0	7	7	0	0.14	0.14	0	0	0	0	0	0	0	0
4/1/2024 11:36	57403	SPAN_T1	3	27	24	0.17	0.26	0.09	0.04	0.04	0	0	0	0	0	0
4/1/2024 11:36	54206	PENN_T2	24	33	9	0.1	0.1	0	0	0	0	0	0	0	0	0
4/1/2024 11:36	54202	PENN_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/1/2024 11:36	41902	REED_T1	0	0	0	0	0	0	1.11	1.13	0	0	0	0	0	0
4/1/2024 11:36	65003	NEFF_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
4/1/2024 11:36	57401	SPAN_T1	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
4/1/2024 11:36	65001	NEFF_T2	0	0	0	0	0	0	-0.45	-0.53	1	1	0	1200	1200	0
4/1/2024 11:37	20403	ASHF_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
4/1/2024 11:39	20403	ASHF_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
4/1/2024 11:39	67605	WARW_T1	5	14	9	0.2	0.39	0.19	-0.82	-0.81	0	0	0	0	0	0
4/1/2024 11:40	20403	ASHF_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
4/1/2024 11:41	60605	NCOL_T2	12	2	-10	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
4/1/2024 11:41	60801	BUCK_T1	0	0	0	0	0	0	-0.45	-0.52	1	1	0	600	600	0
4/1/2024 11:42	14403	SSLA_T1	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
4/1/2024 11:42	60605	NCOL_T2	12	2	-10	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
4/1/2024 11:42	14404	SSLA_T1	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
4/1/2024 11:42	64101	REFR_T1	0	0	0	0	0	0	-0.69	-0.66	0	0	0	0	0	0
4/1/2024 11:43	14403	SSLA_T1	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
4/1/2024 11:43	60605	NCOL_T2	12	2	-10	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
4/1/2024 11:43	14404	SSLA_T1	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
4/1/2024 11:44	60605	NCOL_T2	12	2	-10	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
4/1/2024 11:44	40101	HUNT_T2	5	25	20	0.28	0	-0.28	-0.73	-1.09	0	0	0	0	0	0
4/1/2024 11:46	40101	HUNT_T2	25	0	-25	0.37	0	-0.37	-0.37	-0.54	0	0	0	0	0	0
4/1/2024 11:48	41901	REED_T1	0	9	9	0	0.24	0.24	0	0	0	0	0	0	0	0
4/1/2024 11:48	40101	HUNT_T2	25	0	-25	0.37	0	-0.37	-0.37	-0.54	0	0	0	0	0	0
4/1/2024 11:48	41902	REED_T1	0	0	0	0	0	0	1.13	1.09	0	0	0	0	0	0
4/1/2024 11:49	67204	TEHI_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
4/1/2024 11:51	58402	MORO_T1	0	0	0	0	0	0	-0.21	-0.3	2	2	0	1500	1500	0
4/1/2024 11:51	41901	REED_T1	0	9	9	0	0.24	0.24	0	0	0	0	0	0	0	0
4/1/2024 11:51	41902	REED_T1	0	0	0	0	0	0	1.13	1.09	0	0	0	0	0	0
4/1/2024 11:52	66703	STRA_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
4/1/2024 11:53	67204	TEHI_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
4/1/2024 11:54	60605	NCOL_T2	2	6	4	0.15	0.35	0.2	0	0	0	0	0	0	0	0
4/1/2024 11:56	60605	NCOL_T2	2	6	4	0.15	0.35	0.2	0	0	0	0	0	0	0	0
4/1/2024 11:58	40101	HUNT_T2	25	0	-25	0.37	0	-0.37	-0.54	-0.64	0	0	0	0	0	0
4/1/2024 11:58	60605	NCOL_T2	2	6	4	0.15	0.35	0.2	0	0	0	0	0	0	0	0
4/1/2024 11:58	14401	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 11:58	14403	SSLA_T1	0	0	0	0	0	0	-0.38	0.7	0	0	0	0	0	0
4/1/2024 11:58	14404	SSLA_T1	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
4/1/2024 11:58	64101	REFR_T1	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
4/1/2024 11:59	40101	HUNT_T2	25	0	-25	0.37	0	-0.37	-0.54	-0.64	0	0	0	0	0	0
4/1/2024 12:00	40101	HUNT_T2	0	1	1	0	0	0	0.54	-0.64	0	0	0	0	0	0
4/1/2024 12:02	40101	HUNT_T2	0	1	1	0	0	0	-0.54	-0.64	0	0	0	0	0	0
4/1/2024 12:04	14404	SSLA_T1	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
4/1/2024 12:04	14403	SSLA_T1	0	0	0	0	0	0	-0.38	0.7	0	0	0	0	0	0
4/1/2024 12:04	14401	SSLA_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
4/1/2024 12:05	67001	STHI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/1/2024 12:05	67002	STHI_T2	0	0	0	0	0	0	1.2	1.16	0	0	0	0	0	0
4/1/2024 12:07	58003	WCAR_T1	1	1	0	0.7	1	0.3	0	0.04	1	1	0	600	600	0
4/1/2024 12:07	58001	WCAR_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/1/2024 12:07	42201	SHEN_T2	0	0	0	0	0	0	-0.15	-0.13	1	1	0	600	600	0
4/1/2024 12:08	60801	BUCK_T1	0	0	0	0	0	0	-0.8	-0.14	1	1	0	600	600	0
4/1/2024 12:09	58001	WCAR_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/1/2024 12:09	58003	WCAR_T1	1	1	0	0.7	1	0.3	0.04	0.04	1	1	0	600	600	0
4/1/2024 12:11	63801	HEMP_T1	0	6	6	0	0.22	0.22	0	0	0	0	0	0	0	0
4/1/2024 12:11	50105	HARR_T3	9	9	0	5.67	6.25	0.58	0	0	0	0	0	0	0	0
4/1/2024 12:11	50103	HARR_T3	2	2	0	0.8	0.7	-0.1	-1.02	-1.02	1	1	0	1200	1200	0
4/1/2024 12:11	63802	HEMP_T1	0	4	4	0	0.13	0.13	0.22	0.19	0	0	0	0	0	0
4/1/2024 12:11	50201	HARR_T3	1	1	0	9	7.4	-1.6	0	0	0	0	0	0	0	0
4/1/2024 12:11	63804	HEMP_T1	1	2	1	6.3	3.1	-3.2	0	0	0	0	0	0	0	0
4/1/2024 12:11	63803	HEMP_T1	2	18	16	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
4/1/2024 12:12	63803	HEMP_T1	2	18	16	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
4/1/2024 12:12	63801	HEMP_T1	0	6	6	0	0.22	0.22	0	0	0	0	0	0	0	0
4/1/2024 12:12	63802	HEMP_T1	0	4	4	0	0.13	0.13	0.22	0.19	0	0	0	0	0	0
4/1/2024 12:12	54502	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/1/2024 12:12	54505	ENOL_T2	1	1	0	0.8	1	0.2	-1.32	-1.32	1	1	0	600	600	0
4/1/2024 12:12	63804	HEMP_T1	1	2	1	6.3	3.1	-3.2	0	0	0	0	0	0	0	0
4/1/2024 12:14	50201	HARR_T3	1	1	0	9	7.4	-1.6	0	0	0	0	0	0	0	0
4/1/2024 12:14	54505	ENOL_T2	1	1	0	0.8	1	0.2	-2.64	-2.64	2	2	0	1200	1200	0
4/1/2024 12:14	50105	HARR_T3	9	9	0	5.67	6.25	0.58	0	0	0	0	0	0	0	0
4/1/2024 12:14	50103	HARR_T3	2	2	0	0.8	0.7	-0.1	-1.02	-1.02	1	1	0	1200	1200	0
4/1/2024 12:14	54502	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/1/2024 12:16	63802	HEMP_T1	3	4	1	0.13	0.1	-0.03	0.22	0.19	0	0	0	0	0	0
4/1/2024 12:16	63801	HEMP_T1	6	6	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
4/1/2024 12:16	63803	HEMP_T1	10	18	8	0.19	0.17	-0.02	0	0	0	0	0	0	0	0
4/1/2024 12:16	63804	HEMP_T1	2	2	0	3.1	3.1	0	0	0	0	0	0	0	0	0
4/1/2024 12:17	59301	MCAL_T1	2	2	0	0.55	0.65	0.1	-1.62	-1.6	1	1	0	600	600	0
4/1/2024 12:17	59302	MCAL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/1/2024 12:18	65004	NEFF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/1/2024 12:18	65003	NEFF_T2	8	39	31	0.36	0.14	-0.22	0	0	0	0	0	0	0	0
4/1/2024 12:18	65001	NEFF_T2	22	46	24	0.16	0.11	-0.05	-0.61	-0.59	1	1	0	1200	1200	0
4/1/2024 12:20	65004	NEFF_T2	1	0	-1	0.3	0	-0.3	-0.52	-0.52	0	0	0	0	0	0
4/1/2024 12:20	54206	PENN_T2	27	36	9	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/1/2024 12:20	65001	NEFF_T2	22	46	24	0.16	0.11	-0.05	0	0	0	0	0	0	0	0
4/1/2024 12:20	54202	PENN_T2	1	3	2	0.1	0.1	0	0.59	0.57	0	0	0	0	0	0
4/1/2024 12:20	65003	NEFF_T2	8	39	31	0.36	0.14	-0.22	0	0	0	0	0	0	0	0
4/1/2024 12:21	67501	WEWI_T1	0	5	5	0	0.28	0.28	-0.51	-0.59	0	0	0	0	0	0
4/1/2024 12:21	67505	WEWI_T1	2	1	-1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/1/2024 12:22	65702	RVIL_T2	8	0	-8	0.31	0	-0.31	-1.05	-1.07	1	1	0	600	600	0
4/1/2024 12:23	67505	WEWI_T1	2	1	-1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/1/2024 12:23	67501	WEWI_T1	0	5	5	0	0.28	0.28	-0.59	-0.57	0	0	0	0	0	0
4/1/2024 12:29	14403	SSLA_T1	0	0	0	0	0	0	0.65	0.71	0	0	0	0	0	0
4/1/2024 12:29	14404	SSLA_T1	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
4/1/2024 12:30	14404	SSLA_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
4/1/2024 12:30	14403	SSLA_T1	0	0	0	0	0	0	0.65	0.71	0	0	0	0	0	0
4/1/2024 12:30	14401	SSLA_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
4/1/2024 12:31	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-1.31	-1.24	0	0	0	0	0	0
4/1/2024 12:33	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.65	-0.62	0	0	0	0	0	0
4/1/2024 12:34	41901	REED_T1	9	8	-1	0.29	0.34	0.05	0	0	0	0	0	0	0	0
4/1/2024 12:34	41902	REED_T1	0	0	0	0	0	0	1.12	1.12	0	0	0	0	0	0
4/1/2024 12:35	41901	REED_T1	9	8	-1	0.29	0.34	0.05	0	0	0	0	0	0	0	0
4/1/2024 12:35	41902	REED_T1	0	0	0	0	0	0	1.12	1.12	0	0	0	0	0	0
4/1/2024 12:39	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/1/2024 12:39	66701	STRA_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/1/2024 12:39	60605	NCOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/1/2024 12:39	66703	STRA_T1	0	1	1	0	0.1	0.1	-0.23	-0.19	0	0	0	0	0	0
4/1/2024 12:40	60605	NCOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/1/2024 12:40	64101	REFR_T1	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
4/1/2024 12:41	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 12:41	60605	NCOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/1/2024 12:43	60605	NCOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/1/2024 12:44	60605	NCOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/1/2024 12:45	60605	NCOL_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/1/2024 12:49	46301	ROHR_T1	218	143	-75	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
4/1/2024 12:49	46302	ROHR_T1	23	4	-19	0.48	2.08	1.6	0.19	0.19	0	0	0	0	0	0
4/1/2024 12:52	20403	ASHF_T2	0	2	2	0	0.1	0.1	0.61	0.5	0	0	0	0	0	0
4/1/2024 12:52	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 12:53	57401	SPAN_T1	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
4/1/2024 12:53	57403	SPAN_T1	17	25	8	0.26	0.25	-0.01	0	-0.02	0	0	0	0	0	0
4/1/2024 12:54	20403	ASHF_T2	0	2	2	0	0.1	0.1	0.5	0.29	0	0	0	0	0	0
4/1/2024 12:54	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 12:55	57403	SPAN_T1	17	25	8	0.26	0.25	-0.01	0	-0.02	0	0	0	0	0	0
4/1/2024 12:55	57401	SPAN_T1	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
4/1/2024 12:56	20403	ASHF_T2	0	2	2	0	0.1	0.1	0.5	0.29	0	0	0	0	0	0
4/1/2024 12:56	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 13:01	13302	ORVI_T2	0	0	0	0	0	0	1.33	1.46	0	0	0	0	0	0
4/1/2024 13:05	65702	RVIL_T2	3	0	-3	0.13	0	-0.13	-1.05	-0.62	1	0	-1	600	0	-600
4/1/2024 13:09	49803	UNIV_T1	0	0	0	0	0	0	-1.15	-1.05	0	0	0	0	0	0
4/1/2024 13:17	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.05	1	1	0	600	600	0
4/1/2024 13:18	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.05	1	1	0	600	600	0
4/1/2024 13:24	67605	WARW_T1	9	2	-7	0.21	0.25	0.04	-0.86	-0.86	0	0	0	0	0	0
4/1/2024 13:26	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 13:27	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 13:28	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 13:41	54501	ENOL_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
4/1/2024 13:41	54502	ENOL_T2	1	29	28	0.5	0.13	-0.37	0	0	0	0	0	0	0	0
4/1/2024 13:41	54505	ENOL_T2	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
4/1/2024 13:42	54502	ENOL_T2	1	29	28	0.5	0.13	-0.37	0	0	0	0	0	0	0	0
4/1/2024 13:42	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-1.03	1	1	0	600	600	0
4/1/2024 13:42	54505	ENOL_T2	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
4/1/2024 13:43	54505	ENOL_T2	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
4/1/2024 13:43	54503	ENOL_T2	0	0	0	0	0	0	-2.68	-2.66	2	2	0	1200	1200	0
4/1/2024 13:43	54502	ENOL_T2	1	29	28	0.5	0.13	-0.37	0	0	0	0	0	0	0	0
4/1/2024 13:45	54502	ENOL_T2	2	32	30	0.45	0.13	-0.32	0	0	0	0	0	0	0	0
4/1/2024 13:45	54505	ENOL_T2	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
4/1/2024 13:45	54501	ENOL_T2	0	3	3	0	0.13	0.13	0.1	0.09	0	0	0	0	0	0
4/1/2024 13:48	41901	REED_T1	8	9	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/1/2024 13:48	41902	REED_T1	0	0	0	0	0	0	1.09	1.16	0	0	0	0	0	0
4/1/2024 13:49	57104	SPHI_T2	1	0	-1	10	0	-10	-1.13	-1.12	0	0	0	0	0	0
4/1/2024 13:49	42802	SEU_T1	1	0	-1	0.3	0	-0.3	-0.84	-0.85	1	1	0	900	900	0
4/1/2024 13:49	57101	SPHI_T2	6	6	0	0.97	0.92	-0.05	0	0	0	0	0	0	0	0
4/1/2024 13:49	50502	MECH_T1	1	1	0	2.3	2.6	0.3	0	0	0	0	0	0	0	0
4/1/2024 13:49	50501	MECH_T1	4	4	0	1.33	1.55	0.22	0	0	0	0	0	0	0	0
4/1/2024 13:49	57106	SPHI_T2	3	3	0	2.1	1.93	-0.17	0	0	0	0	0	0	0	0
4/1/2024 13:49	50506	MECH_T1	0	1	1	0	0	0	0.19	0.21	0	0	0	0	0	0
4/1/2024 13:50	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/1/2024 13:50	65001	NEFF_T2	25	187	162	0.12	0.18	0.06	-0.75	-0.77	1	1	0	1200	1200	0
4/1/2024 13:50	65003	NEFF_T2	4	52	48	0.35	0.13	-0.22	0	0	0	0	0	0	0	0
4/1/2024 13:50	67002	STHI_T2	0	0	0	0	0	0	1.18	1.14	0	0	0	0	0	0
4/1/2024 13:51	67002	STHI_T2	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
4/1/2024 13:51	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/1/2024 13:52	67002	STHI_T2	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
4/1/2024 13:52	41901	REED_T1	8	9	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/1/2024 13:52	41902	REED_T1	0	0	0	0	0	0	1.09	1.16	0	0	0	0	0	0
4/1/2024 13:52	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/1/2024 13:52	20403	ASHF_T2	0	2	2	0	0.1	0.1	0.2	0.19	0	0	0	0	0	0
4/1/2024 13:53	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/1/2024 13:53	67002	STHI_T2	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
4/1/2024 13:53	42802	SEU_T1	1	0	-1	0.3	0	-0.3	-0.85	-0.83	1	1	0	900	900	0
4/1/2024 13:54	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 13:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 14:03	46302	ROHR_T1	48	133	85	0.33	0.34	0.01	0.2	0.18	0	0	0	0	0	0
4/1/2024 14:03	46301	ROHR_T1	223	275	52	0.36	0.5	0.14	0	0	0	0	0	0	0	0
4/1/2024 14:07	20403	ASHF_T2	0	2	2	0	0.1	0.1	0.19	0.18	0	0	0	0	0	0
4/1/2024 14:08	44301	BEAV_T2	0	0	0	0	0	0	0.29	-0.09	1	1	0	600	600	0
4/1/2024 14:08	66703	STRA_T1	0	0	0	0	0	0	-0.25	-0.22	0	0	0	0	0	0
4/1/2024 14:08	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 14:09	56501	ROCK_T2	14	22	8	0.39	0.37	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 14:09	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 14:10	56501	ROCK_T2	14	22	8	0.39	0.37	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 14:13	54505	ENOL_T2	1	1	0	1.3	1.4	0.1	-1.3	-1.34	1	1	0	600	600	0
4/1/2024 14:13	54502	ENOL_T2	29	30	1	0.13	0.13	0	0	0	0	0	0	0	0	0
4/1/2024 14:13	54501	ENOL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/1/2024 14:14	56501	ROCK_T2	14	22	8	0.39	0.37	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 14:15	54502	ENOL_T2	27	12	-15	0.14	0.16	0.02	0	0	0	0	0	0	0	0
4/1/2024 14:15	13704	SCHN_T2	0	0	0	0	0	0	-0.49	-0.6	0	0	0	0	0	0
4/1/2024 14:15	54505	ENOL_T2	1	1	0	1.4	1.3	-0.1	-1.3	-1.34	1	1	0	600	600	0
4/1/2024 14:15	54501	ENOL_T2	3	2	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/1/2024 14:16	64201	KINZ_T1	0	0	0	0	0	0	0.11	0.07	3	3	0	1500	1500	0
4/1/2024 14:16	26401	INOR_T1	3	3	0	0.4	0.33	-0.07	0.99	1.01	0	0	0	0	0	0
4/1/2024 14:16	26402	INOR_T1	2	2	0	0.65	0.95	0.3	0	0	0	0	0	0	0	0
4/1/2024 14:16	64204	KINZ_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
4/1/2024 14:17	54202	PENN_T2	354	321	-33	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/1/2024 14:17	54204	PENN_T2	3	1	-2	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
4/1/2024 14:17	54206	PENN_T2	144	107	-37	0.29	0.3	0.01	0	0	0	0	0	0	0	0
4/1/2024 14:17	64203	KINZ_T1	0	0	0	0	0	0	0.87	0.87	1	1	0	600	600	0
4/1/2024 14:17	64204	KINZ_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
4/1/2024 14:18	46301	ROHR_T1	258	276	18	0.48	0.5	0.02	0	0	0	0	0	0	0	0
4/1/2024 14:18	41902	REED_T1	0	0	0	0	0	0	1.14	1.1	0	0	0	0	0	0
4/1/2024 14:18	54206	PENN_T2	144	107	-37	0.29	0.3	0.01	0	0	0	0	0	0	0	0
4/1/2024 14:18	54202	PENN_T2	354	321	-33	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/1/2024 14:18	54204	PENN_T2	3	1	-2	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
4/1/2024 14:18	41901	REED_T1	8	9	1	0.28	0.41	0.13	0	0	0	0	0	0	0	0
4/1/2024 14:18	46302	ROHR_T1	110	133	23	0.3	0.34	0.04	0.18	0.18	0	0	0	0	0	0
4/1/2024 14:18	40603	PIGR_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
4/1/2024 14:18	40601	PIGR_T1	10	38	28	0.12	0.13	0.01	0	0	0	0	0	0	0	0
4/1/2024 14:19	54206	PENN_T2	144	107	-37	0.29	0.3	0.01	0	0	0	0	0	0	0	0
4/1/2024 14:19	54202	PENN_T2	354	321	-33	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/1/2024 14:19	64802	MONE_T2	0	0	0	0	0	0	-0.08	-0.05	0	0	0	0	0	0
4/1/2024 14:19	54204	PENN_T2	3	1	-2	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
4/1/2024 14:19	64801	MONE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/1/2024 14:20	51006	NHAR_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/1/2024 14:20	41902	REED_T1	0	0	0	0	0	0	1.14	1.1	0	0	0	0	0	0
4/1/2024 14:20	51004	NHAR_T1	13	13	0	1.38	1.51	0.13	-0.42	-0.41	0	0	0	0	0	0
4/1/2024 14:20	41901	REED_T1	8	9	1	0.28	0.41	0.13	0	0	0	0	0	0	0	0
4/1/2024 14:20	51003	NHAR_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/1/2024 14:20	51002	NHAR_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
4/1/2024 14:21	43101	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/1/2024 14:21	43102	SMIL_T2	8	9	1	0.68	0.71	0.03	0	0	0	0	0	0	0	0
4/1/2024 14:21	43103	SMIL_T2	16	17	1	0.58	0.66	0.08	0	0	0	0	0	0	0	0
4/1/2024 14:21	43105	SMIL_T2	3	6	3	0.17	0.22	0.05	0	0	0	0	0	0	0	0
4/1/2024 14:21	43104	SMIL_T2	0	0	0	0	0	0	-0.82	-0.82	1	1	0	300	300	0
4/1/2024 14:22	56802	BENV_T2	20	43	23	0.16	0.17	0.01	-1.31	-1.37	0	0	0	0	0	0
4/1/2024 14:22	58401	MORO_T1	0	0	0	0	0	0	-1.09	-1.07	1	1	0	600	600	0
4/1/2024 14:23	56802	BENV_T2	20	43	23	0.16	0.17	0.01	-2.74	-2.68	0	0	0	0	0	0
4/1/2024 14:24	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 14:24	26001	WDAM_T1	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
4/1/2024 14:24	26002	WDAM_T1	6	12	6	0.8	0.46	-0.34	0	0	0	0	0	0	0	0
4/1/2024 14:25	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 14:25	56802	BENV_T2	20	43	23	0.16	0.17	0.01	-4.11	-4.02	0	0	0	0	0	0
4/1/2024 14:25	20403	ASHF_T2	2	0	-2	0.1	0	-0.1	0.18	0.16	0	0	0	0	0	0
4/1/2024 14:26	60101	COCA_T1	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
4/1/2024 14:26	56802	BENV_T2	20	43	23	0.16	0.17	0.01	-2.74	-2.68	0	0	0	0	0	0
4/1/2024 14:26	60803	BUCK_T1	0	0	0	0	0	0	-0.54	-0.54	1	1	0	600	600	0
4/1/2024 14:27	20403	ASHF_T2	2	0	-2	0.1	0	-0.1	0.18	0.16	0	0	0	0	0	0
4/1/2024 14:27	56802	BENV_T2	20	43	23	0.16	0.17	0.01	-5.48	-5.36	0	0	0	0	0	0
4/1/2024 14:27	64203	KINZ_T1	0	0	0	0	0	0	0.87	0.9	1	1	0	600	600	0
4/1/2024 14:27	56801	BENV_T1	13	15	2	1.02	0.73	-0.29	-0.8	-0.82	1	1	0	600	600	0
4/1/2024 14:27	64204	KINZ_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
4/1/2024 14:28	56802	BENV_T2	20	43	23	0.16	0.17	0.01	-2.74	-2.68	0	0	0	0	0	0
4/1/2024 14:31	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 14:31	42903	MIDD_T2	2	2	0	1.3	2.15	0.85	0	0	0	0	0	0	0	0
4/1/2024 14:31	42901	MIDD_T2	0	27	27	0	0.13	0.13	0	0	0	0	0	0	0	0
4/1/2024 14:31	42902	MIDD_T2	2	15	13	0.8	0.21	-0.59	-0.39	-0.25	0	0	0	0	0	0
4/1/2024 14:32	46301	ROHR_T1	260	275	15	0.47	0.5	0.03	0.24	0.25	0	0	0	0	0	0
4/1/2024 14:32	40903	JESH_T1	0	18	18	0	0.12	0.12	0	0	0	0	0	0	0	0
4/1/2024 14:32	40902	JESH_T1	0	28	28	0	0.16	0.16	-0.47	-0.65	0	0	0	0	0	0
4/1/2024 14:32	40901	JESH_T1	0	12	12	0	0.11	0.11	0	0	0	0	0	0	0	0
4/1/2024 14:32	46302	ROHR_T1	132	118	-14	0.32	0.29	-0.03	0	0	0	0	0	0	0	0
4/1/2024 14:33	59402	RFLD_T2	0	0	0	0	0	0	-0.67	-0.73	1	1	0	450	450	0
4/1/2024 14:34	41901	REED_T1	8	9	1	0.39	0.58	0.19	0	0	0	0	0	0	0	0
4/1/2024 14:34	43201	MVIL_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
4/1/2024 14:34	41902	REED_T1	0	0	0	0	0	0	1.1	1.15	0	0	0	0	0	0
4/1/2024 14:34	42002	MNVL_T2	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
4/1/2024 14:34	64802	MONE_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
4/1/2024 14:34	64801	MONE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/1/2024 14:34	46301	ROHR_T1	260	275	15	0.47	0.5	0.03	0	0	0	0	0	0	0	0
4/1/2024 14:34	43202	MVIL_T2	122	135	13	0.69	0.78	0.09	0	0	0	0	0	0	0	0
4/1/2024 14:34	42001	MNVL_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
4/1/2024 14:34	46302	ROHR_T1	132	118	-14	0.32	0.29	-0.03	0.18	0.18	0	0	0	0	0	0
4/1/2024 14:35	43202	MVIL_T2	122	135	13	0.69	0.78	0.09	-0.52	-0.58	0	0	0	0	0	0
4/1/2024 14:35	26001	WDAM_T1	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
4/1/2024 14:35	26002	WDAM_T1	6	11	5	0.77	0.49	-0.28	0	0	0	0	0	0	0	0
4/1/2024 14:36	43103	SMIL_T2	17	17	0	0.66	0.73	0.07	0	0	0	0	0	0	0	0
4/1/2024 14:36	41901	REED_T1	8	9	1	0.39	0.58	0.19	0	0	0	0	0	0	0	0
4/1/2024 14:36	43104	SMIL_T2	0	0	0	0	0	0	-0.82	-0.81	1	1	0	300	300	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/1/2024 14:36	43102	SMIL_T2	8	9	1	0.7	0.84	0.14	0	0	0	0	0	0	0	0
4/1/2024 14:36	45602	WOOL_T1	3	3	0	0.67	0.97	0.3	0.53	0.5	0	0	0	0	0	0
4/1/2024 14:36	41902	REED_T1	0	0	0	0	0	0	1.1	1.15	0	0	0	0	0	0
4/1/2024 14:36	43105	SMIL_T2	3	14	11	0.23	0.24	0.01	0	0	0	0	0	0	0	0
4/1/2024 14:37	46004	BERW_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
4/1/2024 14:37	56802	BENV_T2	16	48	32	0.18	0.17	-0.01	-1.37	-1.34	0	0	0	0	0	0
4/1/2024 14:38	56801	BENV_T1	11	15	4	0.92	0.8	-0.12	-0.82	-0.82	1	1	0	600	600	0
4/1/2024 14:38	57401	SPAN_T1	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
4/1/2024 14:38	57403	SPAN_T1	16	153	137	0.24	0.32	0.08	0.01	0.04	0	0	0	0	0	0
4/1/2024 14:38	67401	WAKE_T2	0	0	0	0	0	0	-1.23	-1.2	0	0	0	0	0	0
4/1/2024 14:38	56802	BENV_T2	16	48	32	0.18	0.17	-0.01	-6.7	-6.42	0	0	0	0	0	0
4/1/2024 14:39	20403	ASHF_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
4/1/2024 14:39	56802	BENV_T2	16	48	32	0.18	0.17	-0.01	-1.34	-1.28	0	0	0	0	0	0
4/1/2024 14:40	56501	ROCK_T2	22	39	17	0.28	0.25	-0.03	-0.03	-0.03	0	0	0	0	0	0
4/1/2024 14:40	57403	SPAN_T1	16	153	137	0.24	0.32	0.08	0.01	0.04	0	0	0	0	0	0
4/1/2024 14:40	56802	BENV_T2	16	48	32	0.18	0.17	-0.01	-1.34	-1.28	0	0	0	0	0	0
4/1/2024 14:40	57401	SPAN_T1	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
4/1/2024 14:41	45602	WOOL_T1	3	3	0	0.67	0.97	0.3	0.5	0.5	0	0	0	0	0	0
4/1/2024 14:41	44301	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/1/2024 14:41	46004	BERW_T2	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
4/1/2024 14:41	60101	COCA_T1	0	0	0	0	0	0	0.34	0.29	0	0	0	0	0	0
4/1/2024 14:41	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
4/1/2024 14:41	46206	DANV_T2	0	0	0	0	0	0	2.12	2.01	1	1	0	1200	1200	0
4/1/2024 14:41	56802	BENV_T2	16	48	32	0.18	0.17	-0.01	-4.02	-3.85	0	0	0	0	0	0
4/1/2024 14:41	44302	BEAV_T2	0	24	24	0	0.17	0.17	0.22	0.24	0	0	0	0	0	0
4/1/2024 14:41	56501	ROCK_T2	22	39	17	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
4/1/2024 14:42	56501	ROCK_T2	22	39	17	0.28	0.25	-0.03	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 14:42	60803	BUCK_T1	0	0	0	0	0	0	-0.54	-0.53	1	1	0	600	600	0
4/1/2024 14:42	46206	DANV_T2	0	0	0	0	0	0	4.23	4.03	2	2	0	2400	2400	0
4/1/2024 14:42	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 14:42	56802	BENV_T2	16	48	32	0.18	0.17	-0.01	-1.34	-1.28	0	0	0	0	0	0
4/1/2024 14:43	41802	GOCI_T2	0	9	9	0	0.13	0.13	0	0	0	0	0	0	0	0
4/1/2024 14:43	46206	DANV_T2	0	0	0	0	0	0	2.12	2.01	1	1	0	1200	1200	0
4/1/2024 14:43	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 14:43	64204	KINZ_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
4/1/2024 14:43	64203	KINZ_T1	0	0	0	0	0	0	0.9	0.94	1	1	0	600	600	0
4/1/2024 14:43	56802	BENV_T2	16	48	32	0.18	0.17	-0.01	-1.34	-1.28	0	0	0	0	0	0
4/1/2024 14:44	63802	HEMP_T1	0	18	18	0	0.13	0.13	0.35	0.22	0	0	0	0	0	0
4/1/2024 14:44	46205	DANV_T2	0	0	0	0	0	0	-0.75	-0.45	1	0	-1	1200	0	-1200
4/1/2024 14:44	46206	DANV_T2	0	0	0	0	0	0	2.12	2.01	1	1	0	1200	1200	0
4/1/2024 14:44	63803	HEMP_T1	5	16	11	0.12	0.17	0.05	0	0	0	0	0	0	0	0
4/1/2024 14:44	63804	HEMP_T1	1	4	3	6.3	1.58	-4.72	0	0	0	0	0	0	0	0
4/1/2024 14:45	59302	MCAL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/1/2024 14:45	59301	MCAL_T1	2	2	0	0.8	1.1	0.3	-1.61	-1.58	1	1	0	600	600	0
4/1/2024 14:45	46206	DANV_T2	0	0	0	0	0	0	6.35	6.04	3	3	0	3600	3600	0
4/1/2024 14:46	43202	MVIL_T2	133	145	12	0.74	0.81	0.07	-0.58	-0.55	0	0	0	0	0	0
4/1/2024 14:46	56501	ROCK_T2	37	9	-28	0.24	0.5	0.26	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 14:46	46206	DANV_T2	0	0	0	0	0	0	2.12	2.01	1	1	0	1200	1200	0
4/1/2024 14:47	42902	MIDD_T2	14	4	-10	0.19	0.33	0.14	-0.25	-0.28	0	0	0	0	0	0
4/1/2024 14:47	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.73	1	1	0	900	900	0
4/1/2024 14:47	59402	RFLD_T2	0	0	0	0	0	0	-0.73	-0.76	1	1	0	450	450	0
4/1/2024 14:47	42901	MIDD_T2	27	0	-27	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/1/2024 14:47	42903	MIDD_T2	2	2	0	2.15	1.6	-0.55	0	0	0	0	0	0	0	0
4/1/2024 14:48	40901	JESH_T1	0	12	12	0	0.11	0.11	0	0	0	0	0	0	0	0
4/1/2024 14:48	40903	JESH_T1	2	18	16	0.1	0.12	0.02	0	0	0	0	0	0	0	0
4/1/2024 14:48	59402	RFLD_T2	0	0	0	0	0	0	-0.73	-0.76	1	1	0	450	450	0
4/1/2024 14:48	42802	SELI_T1	0	0	0	0	0	0	-0.84	-0.86	1	1	0	900	900	0
4/1/2024 14:48	40902	JESH_T1	7	28	21	0.13	0.16	0.03	-0.65	-0.68	0	0	0	0	0	0
4/1/2024 14:49	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 14:49	54202	PENN_T2	166	289	123	0.15	0.21	0.06	0.58	0.55	0	0	0	0	0	0
4/1/2024 14:49	54204	PENN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/1/2024 14:49	40603	PIGR_T1	0	0	0	0	0	0	0.35	0.38	0	0	0	0	0	0
4/1/2024 14:49	59402	RFLD_T2	0	0	0	0	0	0	-0.73	-0.76	1	1	0	450	450	0
4/1/2024 14:49	40601	PIGR_T1	38	221	183	0.13	0.37	0.24	0	0	0	0	0	0	0	0
4/1/2024 14:49	54206	PENN_T2	48	64	16	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
4/1/2024 14:50	41901	REED_T1	8	9	1	0.43	0.8	0.37	0	0	0	0	0	0	0	0
4/1/2024 14:50	43202	MVIL_T2	133	145	12	0.74	0.81	0.07	0	0	0	0	0	0	0	0
4/1/2024 14:50	13901	SEID_T1	0	0	0	0	0	0	-0.81	-0.82	1	1	0	1200	1200	0
4/1/2024 14:50	42201	SHEN_T2	0	0	0	0	0	0	-0.06	-0.08	1	1	0	600	600	0
4/1/2024 14:50	43201	MVIL_T2	0	0	0	0	0	0	-0.37	-0.41	0	0	0	0	0	0
4/1/2024 14:50	42001	MNVL_T2	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
4/1/2024 14:50	42002	MNVL_T2	1	1	0	6.5	6.2	-0.3	0	0	0	0	0	0	0	0
4/1/2024 14:50	41902	REED_T1	0	0	0	0	0	0	1.15	1.15	0	0	0	0	0	0
4/1/2024 14:50	42802	SELI_T1	0	0	0	0	0	0	-0.84	-0.86	1	1	0	900	900	0
4/1/2024 14:51	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
4/1/2024 14:51	42201	SHEN_T2	0	0	0	0	0	0	-0.06	-0.08	1	1	0	600	600	0
4/1/2024 14:51	56501	ROCK_T2	37	9	-28	0.24	0.5	0.26	0	0	0	0	0	0	0	0
4/1/2024 14:51	54206	PENN_T2	48	64	16	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
4/1/2024 14:51	41901	REED_T1	8	9	1	0.43	0.8	0.37	0	0	0	0	0	0	0	0
4/1/2024 14:51	54204	PENN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/1/2024 14:51	54202	PENN_T2	166	289	123	0.15	0.21	0.06	0.58	0.55	0	0	0	0	0	0
4/1/2024 14:51	41902	REED_T1	0	0	0	0	0	0	1.15	1.15	0	0	0	0	0	0
4/1/2024 14:52	15001	BLMO_T1	1	6	5	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/1/2024 14:52	45602	WOOL_T1	3	3	0	0.97	0.8	-0.17	0.5	0.5	0	0	0	0	0	0
4/1/2024 14:52	59101	WALK_T2	0	0	0	0	0	0	1.94	1.87	0	0	0	0	0	0
4/1/2024 14:53	20403	ASHF_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
4/1/2024 14:53	67901	WNHO_T2	0	46	46	0	0.16	0.16	0.06	-0.07	0	0	0	0	0	0
4/1/2024 14:53	42701	AUGU_T1	1	1	0	1.8	1.2	-0.6	0	0	2	2	0	1800	1800	0
4/1/2024 14:55	15001	BLMO_T1	1	6	5	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/1/2024 14:55	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 14:55	42701	AUGU_T1	1	1	0	1.8	1.2	-0.6	0	0	2	2	0	1800	1800	0
4/1/2024 14:56	56501	ROCK_T2	37	9	-28	0.24	0.5	0.26	-0.03	-0.03	0	0	0	0	0	0
4/1/2024 14:57	20403	ASHF_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
4/1/2024 14:57	45602	WOOL_T1	3	3	0	0.97	0.8	-0.17	0.5	0.47	0	0	0	0	0	0
4/1/2024 14:59	25503	MADI_T1	0	0	0	0	0	0	-0.98	-1.01	0	0	0	0	0	0
4/1/2024 15:00	46205	DANV_T2	0	0	0	0	0	0	-0.45	0.52	0	0	0	0	0	0
4/1/2024 15:01	56501	ROCK_T2	8	4	-4	0.5	0.18	-0.32	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 15:02	15604	NSTR_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
4/1/2024 15:03	59402	RFLD_T2	0	0	0	0	0	0	-0.76	-0.75	1	1	0	450	450	0
4/1/2024 15:04	67001	STHI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/1/2024 15:04	59402	RFLD_T2	0	0	0	0	0	0	-1.53	-1.5	2	2	0	900	900	0
4/1/2024 15:04	67002	STHI_T2	0	0	0	0	0	0	1.16	1.1	0	0	0	0	0	0
4/1/2024 15:05	67002	STHI_T2	0	0	0	0	0	0	1.16	1.1	0	0	0	0	0	0
4/1/2024 15:05	56802	BENV_T2	33	166	133	0.19	0.35	0.16	-1.28	-1.35	0	0	0	0	0	0
4/1/2024 15:05	67001	STHI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/1/2024 15:05	67204	TEHI_T2	0	0	0	0	0	0	-0.06	-0.1	0	0	0	0	0	0
4/1/2024 15:06	54206	PENN_T2	60	59	-1	0.29	0.37	0.08	0	0	0	0	0	0	0	0
4/1/2024 15:06	54204	PENN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/1/2024 15:06	54202	PENN_T2	268	287	19	0.2	0.23	0.03	0.55	0.61	0	0	0	0	0	0
4/1/2024 15:06	13901	SEID_T1	0	0	0	0	0	0	-0.82	-0.8	1	1	0	1200	1200	0
4/1/2024 15:07	67204	TEHI_T2	0	0	0	0	0	0	-0.06	-0.1	0	0	0	0	0	0
4/1/2024 15:07	67002	STHI_T2	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
4/1/2024 15:07	67001	STHI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/1/2024 15:12	28604	BLYT_T2	0	0	0	0	0	0	-1.5	-1.52	0	0	0	0	0	0
4/1/2024 15:12	56501	ROCK_T2	8	4	-4	0.5	0.18	-0.32	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 15:14	46503	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/1/2024 15:14	46504	LOHA_T1	6	2	-4	0.35	1.35	1	0	0	0	0	0	0	0	0
4/1/2024 15:14	46506	LOHA_T1	2	1	-1	0.15	0.4	0.25	-0.38	-0.38	0	0	0	0	0	0
4/1/2024 15:15	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 15:15	46504	LOHA_T1	2	2	0	1.35	0.75	-0.6	0	0	0	0	0	0	0	0
4/1/2024 15:15	46506	LOHA_T1	1	0	-1	0.4	0	-0.4	-0.38	-0.38	0	0	0	0	0	0
4/1/2024 15:16	50502	MECH_T1	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
4/1/2024 15:16	50501	MECH_T1	4	4	0	1.45	1.58	0.13	0	0	0	0	0	0	0	0
4/1/2024 15:16	50506	MECH_T1	1	1	0	0.1	0.2	0.1	0.18	0.17	0	0	0	0	0	0
4/1/2024 15:16	50504	MECH_T1	2	4	2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/1/2024 15:17	14404	SSLA_T1	2	2	0	2.9	2.9	0	0	0	0	0	0	0	0	0
4/1/2024 15:17	54204	PENN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/1/2024 15:17	54206	PENN_T2	51	64	13	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
4/1/2024 15:17	14403	SSLA_T1	0	0	0	0	0	0	0.8	0.72	0	0	0	0	0	0
4/1/2024 15:17	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 15:17	46506	LOHA_T1	1	0	-1	0.4	0	-0.4	-0.38	-0.38	0	0	0	0	0	0
4/1/2024 15:17	56501	ROCK_T2	1	4	3	0.4	0.18	-0.22	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 15:17	54202	PENN_T2	264	297	33	0.2	0.24	0.04	0.61	0.56	0	0	0	0	0	0
4/1/2024 15:17	46504	LOHA_T1	2	2	0	1.35	0.75	-0.6	0	0	0	0	0	0	0	0
4/1/2024 15:18	14403	SSLA_T1	0	0	0	0	0	0	0.8	0.72	0	0	0	0	0	0
4/1/2024 15:18	14404	SSLA_T1	2	2	0	2.9	2.9	0	0	0	0	0	0	0	0	0
4/1/2024 15:19	17002	RIRO_T2	1	1	0	0.1	0.1	0	0.58	0.52	0	0	0	0	0	0
4/1/2024 15:22	66703	STRA_T1	0	0	0	0	0	0	-0.25	-0.22	0	0	0	0	0	0
4/1/2024 15:23	20401	ASHF_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/1/2024 15:23	20403	ASHF_T2	0	4	4	0	0.15	0.15	0.13	0.13	0	0	0	0	0	0
4/1/2024 15:24	20403	ASHF_T2	0	4	4	0	0.15	0.15	0.13	0.13	0	0	0	0	0	0
4/1/2024 15:24	20401	ASHF_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/1/2024 15:25	15604	NSTR_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
4/1/2024 15:28	56501	ROCK_T2	1	4	3	0.4	0.18	-0.22	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 15:32	64801	MONE_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/1/2024 15:32	64802	MONE_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
4/1/2024 15:32	40902	JESH_T1	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
4/1/2024 15:33	65902	SAKR_T2	0	0	0	0	0	0	-0.23	-0.21	1	1	0	300	300	0
4/1/2024 15:33	56501	ROCK_T2	4	2	-2	0.18	0.1	-0.08	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 15:33	65901	SAKR_T2	1	1	0	9.5	9	-0.5	0	0	0	0	0	0	0	0
4/1/2024 15:34	50502	MECH_T1	1	1	0	3	2.9	-0.1	0	0	0	0	0	0	0	0
4/1/2024 15:34	50504	MECH_T1	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
4/1/2024 15:34	50506	MECH_T1	1	1	0	0.1	0.2	0.1	0.17	0.18	0	0	0	0	0	0
4/1/2024 15:34	50501	MECH_T1	4	4	0	1.25	1.58	0.33	0	0	0	0	0	0	0	0
4/1/2024 15:38	56501	ROCK_T2	4	2	-2	0.18	0.1	-0.08	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 15:39	40501	CRES_T2	18	26	8	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
4/1/2024 15:39	20403	ASHF_T2	0	4	4	0	0.15	0.15	0.13	0.07	0	0	0	0	0	0
4/1/2024 15:39	20401	ASHF_T2	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/1/2024 15:39	40502	CRES_T2	35	45	10	0.4	0.41	0.01	-0.27	-0.25	0	0	0	0	0	0
4/1/2024 15:40	40501	CRES_T2	18	26	8	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
4/1/2024 15:40	40502	CRES_T2	35	45	10	0.4	0.41	0.01	-1.35	-1.23	0	0	0	0	0	0
4/1/2024 15:41	40502	CRES_T2	35	45	10	0.4	0.41	0.01	-0.27	-0.25	0	0	0	0	0	0
4/1/2024 15:41	40501	CRES_T2	18	26	8	0.34	0.32	-0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/1/2024 15:41	40505	CRES_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
4/1/2024 15:42	40502	CRES_T2	35	45	10	0.4	0.41	0.01	-0.54	-0.49	0	0	0	0	0	0
4/1/2024 15:42	40505	CRES_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
4/1/2024 15:42	40501	CRES_T2	18	26	8	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
4/1/2024 15:43	40501	CRES_T2	18	26	8	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
4/1/2024 15:43	40502	CRES_T2	35	45	10	0.4	0.41	0.01	-0.54	-0.49	0	0	0	0	0	0
4/1/2024 15:43	56501	ROCK_T2	4	2	-2	0.18	0.1	-0.08	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 15:43	40505	CRES_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
4/1/2024 15:44	40505	CRES_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
4/1/2024 15:44	40501	CRES_T2	18	26	8	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
4/1/2024 15:44	40502	CRES_T2	35	45	10	0.4	0.41	0.01	-0.27	-0.25	0	0	0	0	0	0
4/1/2024 15:45	64201	KINZ_T1	7	7	0	0.33	0.33	0	0.08	0.01	3	3	0	1500	1500	0
4/1/2024 15:45	40502	CRES_T2	42	44	2	0.43	0.46	0.03	-0.27	-0.25	0	0	0	0	0	0
4/1/2024 15:45	64202	KINZ_T1	6	5	-1	0.12	0.12	0	0	0	0	0	0	0	0	0
4/1/2024 15:45	64204	KINZ_T1	16	9	-7	0.19	0.19	0	0	0	0	0	0	0	0	0
4/1/2024 15:45	40501	CRES_T2	22	27	5	0.35	0.36	0.01	0	0	0	0	0	0	0	0
4/1/2024 15:45	40505	CRES_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
4/1/2024 15:46	20401	ASHF_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/1/2024 15:46	20403	ASHF_T2	4	1	-3	0.15	0.1	-0.05	0.13	0.07	0	0	0	0	0	0
4/1/2024 15:49	41901	REED_T1	9	9	0	0.59	0.9	0.31	0	0	0	0	0	0	0	0
4/1/2024 15:49	67001	STHI_T2	2	13	11	0.15	0.16	0.01	0	0	0	0	0	0	0	0
4/1/2024 15:49	41902	REED_T1	0	0	0	0	0	0	1.11	1.09	0	0	0	0	0	0
4/1/2024 15:49	67002	STHI_T2	0	1	1	0	0.1	0.1	0.55	0.56	0	0	0	0	0	0
4/1/2024 15:51	67002	STHI_T2	0	1	1	0	0.1	0.1	1.1	1.12	0	0	0	0	0	0
4/1/2024 15:51	67001	STHI_T2	2	13	11	0.15	0.16	0.01	0	0	0	0	0	0	0	0
4/1/2024 15:52	67001	STHI_T2	2	13	11	0.15	0.16	0.01	0	0	0	0	0	0	0	0
4/1/2024 15:52	67002	STHI_T2	0	1	1	0	0.1	0.1	1.1	1.12	0	0	0	0	0	0
4/1/2024 15:53	41901	REED_T1	9	9	0	0.59	0.9	0.31	0	0	0	0	0	0	0	0
4/1/2024 15:53	41902	REED_T1	0	0	0	0	0	0	1.09	1.08	0	0	0	0	0	0
4/1/2024 15:54	56802	BENV_T2	144	149	5	0.27	0.3	0.03	-1.33	-0.67	0	0	0	0	0	0
4/1/2024 15:54	56501	ROCK_T2	1	2	1	0.5	0.1	-0.4	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 15:54	60701	BREC_T1	0	0	0	0	0	0	-0.48	-0.49	1	1	0	600	600	0
4/1/2024 15:55	60701	BREC_T1	0	0	0	0	0	0	-0.48	-0.49	1	1	0	600	600	0
4/1/2024 15:56	60701	BREC_T1	0	0	0	0	0	0	-0.48	-0.49	1	1	0	600	600	0
4/1/2024 15:59	56501	ROCK_T2	1	2	1	0.5	0.1	-0.4	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 16:00	60701	BREC_T1	0	0	0	0	0	0	-0.48	-0.49	1	1	0	600	600	0
4/1/2024 16:01	40502	CRES_T2	30	45	15	0.47	0.47	0	-0.25	-0.26	0	0	0	0	0	0
4/1/2024 16:01	40501	CRES_T2	24	28	4	0.32	0.36	0.04	0	0	0	0	0	0	0	0
4/1/2024 16:04	67002	STHI_T2	0	1	1	0	0.1	0.1	0.56	0.56	0	0	0	0	0	0
4/1/2024 16:04	67001	STHI_T2	2	13	11	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
4/1/2024 16:07	67002	STHI_T2	0	1	1	0	0.1	0.1	1.67	1.68	0	0	0	0	0	0
4/1/2024 16:07	67001	STHI_T2	2	13	11	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
4/1/2024 16:08	67002	STHI_T2	0	1	1	0	0.1	0.1	0.56	0.56	0	0	0	0	0	0
4/1/2024 16:08	67001	STHI_T2	2	13	11	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
4/1/2024 16:10	56501	ROCK_T2	1	1	0	0.1	0.2	0.1	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 16:13	54202	PENN_T2	199	267	68	0.17	0.2	0.03	0.61	0.61	0	0	0	0	0	0
4/1/2024 16:13	54206	PENN_T2	48	54	6	0.36	0.38	0.02	0	0	0	0	0	0	0	0
4/1/2024 16:13	54204	PENN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/1/2024 16:15	56501	ROCK_T2	1	1	0	0.4	0	-0.4	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 16:25	56501	ROCK_T2	1	1	0	0.4	0	-0.4	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 16:26	42501	ALTA_T2	0	0	0	0	0	0	-0.02	-0.02	1	1	0	600	600	0
4/1/2024 16:30	56501	ROCK_T2	1	1	0	0.2	0.1	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 16:38	20403	ASHF_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
4/1/2024 16:41	56501	ROCK_T2	1	1	0	0.2	0.1	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 16:42	20403	ASHF_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
4/1/2024 16:47	56501	ROCK_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 16:55	42201	SHEN_T2	0	0	0	0	0	0	-0.16	-0.19	1	1	0	600	600	0
4/1/2024 17:03	50501	MECH_T1	4	4	0	1.85	1.38	-0.47	0	0	0	0	0	0	0	0
4/1/2024 17:03	50502	MECH_T1	1	1	0	3.2	2.8	-0.4	0	0	0	0	0	0	0	0
4/1/2024 17:03	50506	MECH_T1	10	0	-10	0.14	0	-0.14	-0.06	-0.09	0	0	0	0	0	0
4/1/2024 17:03	50505	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/1/2024 17:03	50503	MECH_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/1/2024 17:03	50504	MECH_T1	89	0	-89	0.16	0	-0.16	0	0	0	0	0	0	0	0
4/1/2024 20:09	59402	RFLD_T2	0	0	0	0	0	0	-0.86	-0.83	1	1	0	450	450	0
4/1/2024 20:23	46801	HEPB_T2	2	2	0	0.15	0.1	-0.05	0.55	0.54	0	0	0	0	0	0
4/1/2024 20:30	65001	NEFF_T2	1	14	13	0.1	0.13	0.03	-0.98	-0.94	1	1	0	1200	1200	0
4/1/2024 20:42	62604	ENGL_T1	0	0	0	0	0	0	-0.47	-0.43	1	1	0	600	600	0
4/1/2024 20:42	62607	ENGL_T1	1	1	0	0.4	0	0	0	0	0	0	0	0	0	0
4/1/2024 20:42	53601	DALM_T2	1	1	0	0.3	0.8	0.5	-0.13	-0.19	0	0	0	0	0	0
4/1/2024 20:45	52402	GRPA_T2	4	5	1	1.15	1.38	0.23	0	0	0	0	0	0	0	0
4/1/2024 20:45	62604	ENGL_T1	0	0	0	0	0	0	-0.94	-0.85	2	2	0	1200	1200	0
4/1/2024 20:45	52404	GRPA_T2	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
4/1/2024 20:45	62607	ENGL_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/1/2024 20:45	52403	GRPA_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/1/2024 20:45	52401	GRPA_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
4/1/2024 20:47	52402	GRPA_T2	4	5	1	1.15	1.38	0.23	0	0	0	0	0	0	0	0
4/1/2024 20:47	52401	GRPA_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
4/1/2024 20:47	52403	GRPA_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/1/2024 20:47	52404	GRPA_T2	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
4/1/2024 20:48	45501	DERR_T2	0	0	0	0	0	0	-0.25	-0.32	2	2	0	1800	1800	0
4/1/2024 20:52	40101	HUNT_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
4/1/2024 20:55	64204	KINZ_T1	1	4	3	1.2	0.45	-0.75	0	0	0	0	0	0	0	0
4/1/2024 20:55	64201	KINZ_T1	5	7	2	0.18	0.29	0.11	0.39	0.38	1	1	0	300	300	0
4/1/2024 20:55	42701	AUGU_T1	5	4	-1	0.3	0.45	0.15	0	0	2	2	0	1800	1800	0
4/1/2024 20:55	64202	KINZ_T1	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
4/1/2024 20:56	64204	KINZ_T1	1	4	3	1.2	0.45	-0.75	0	0	0	0	0	0	0	0
4/1/2024 20:56	64202	KINZ_T1	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
4/1/2024 20:56	56802	BENV_T2	63	178	115	0.18	0.38	0.2	-1.4	-1.38	0	0	0	0	0	0
4/1/2024 20:56	64203	KINZ_T1	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
4/1/2024 20:56	64201	KINZ_T1	5	7	2	0.18	0.29	0.11	0	0	0	0	0	0	0	0
4/1/2024 20:57	45501	DERR_T2	0	0	0	0	0	0	-0.32	-0.26	2	2	0	1800	1800	0
4/1/2024 20:58	59302	MCAL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/1/2024 20:58	59301	MCAL_T1	2	2	0	1.35	1.55	0.2	-2	-1.2	1	0	-1	600	0	-600
4/1/2024 20:59	51002	NHAR_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
4/1/2024 20:59	51004	NHAR_T1	12	19	7	0.94	0.77	-0.17	-0.44	-0.44	0	0	0	0	0	0
4/1/2024 20:59	51003	NHAR_T1	4	37	33	0.18	0.14	-0.04	0	0	0	0	0	0	0	0
4/1/2024 20:59	51006	NHAR_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/1/2024 21:00	42902	MIDD_T2	45	28	-17	0.24	0.23	-0.01	-0.41	-0.43	0	0	0	0	0	0
4/1/2024 21:00	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
4/1/2024 21:00	42901	MIDD_T2	146	100	-46	0.26	0.18	-0.08	0	0	0	0	0	0	0	0
4/1/2024 21:00	42903	MIDD_T2	2	2	0	2.1	1.9	-0.2	0	0	0	0	0	0	0	0
4/1/2024 21:01	44301	BEAV_T2	2	1	-1	0.5	0.4	-0.1	-0.38	-0.21	1	1	0	600	600	0
4/1/2024 21:01	44302	BEAV_T2	117	57	-60	0.37	0.28	-0.09	0	0	0	0	0	0	0	0
4/1/2024 21:02	42701	AUGU_T1	1	4	3	1.2	0.45	-0.75	0	0	2	2	0	1800	1800	0
4/1/2024 21:04	54501	ENOL_T2	2	4	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/1/2024 21:04	40501	CRES_T2	11	20	9	0.34	0.35	0.01	0	0	0	0	0	0	0	0
4/1/2024 21:04	54505	ENOL_T2	1	1	0	1.2	1.5	0.3	-1.36	-1.37	1	1	0	600	600	0
4/1/2024 21:04	54502	ENOL_T2	1	41	40	0.5	0.13	-0.37	0	0	0	0	0	0	0	0
4/1/2024 21:04	40502	CRES_T2	20	39	19	0.37	0.34	-0.03	-0.29	-0.33	0	0	0	0	0	0
4/1/2024 21:05	64902	MILL_T2	0	0	0	0	0	0	-0.78	-0.81	1	1	0	900	900	0
4/1/2024 21:05	67605	WARW_T1	2	8	6	0.25	0.24	-0.01	-0.95	-0.97	0	0	0	0	0	0
4/1/2024 21:05	46801	HEPB_T2	2	2	0	0.25	0.2	-0.05	0.54	0.53	0	0	0	0	0	0
4/1/2024 21:06	46203	DANV_T2	177	79	-98	0.59	0.28	-0.31	0	0	0	0	0	0	0	0
4/1/2024 21:06	41802	GOCI_T2	18	20	2	0.42	0.43	0.01	0	0	0	0	0	0	0	0
4/1/2024 21:06	67001	STHI_T2	59	354	295	0.11	0.15	0.04	0	0	0	0	0	0	0	0
4/1/2024 21:06	59402	RFLD_T2	0	0	0	0	0	0	-0.84	-0.85	1	1	0	450	450	0
4/1/2024 21:06	46206	DANV_T2	0	0	0	0	0	0	1.98	1.99	1	1	0	1200	1200	0
4/1/2024 21:06	41801	GOCI_T2	39	101	62	0.19	0.24	0.05	0	0	0	0	0	0	0	0
4/1/2024 21:06	67002	STHI_T2	3	16	13	0.1	0.13	0.03	0.54	0.52	0	0	0	0	0	0
4/1/2024 21:06	40902	JESH_T1	0	0	0	0	0	0	-0.82	-0.87	0	0	0	0	0	0
4/1/2024 21:07	40602	PIGR_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/1/2024 21:07	46205	DANV_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
4/1/2024 21:07	49803	UNIV_T1	0	0	0	0	0	0	-1.17	-1.17	0	0	0	0	0	0
4/1/2024 21:07	53901	HALI_T2	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0	0
4/1/2024 21:07	67204	TEHI_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
4/1/2024 21:07	66504	SMAN_T2	0	0	0	0	0	0	-1.24	-1.16	0	0	0	0	0	0
4/1/2024 21:07	40603	PIGR_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
4/1/2024 21:07	42701	AUGU_T1	1	4	3	1.2	0.45	-0.75	0	0	4	4	0	3600	3600	0
4/1/2024 21:07	53903	HALI_T2	2	2	0	1.3	1.5	0.2	-0.19	-0.21	0	0	0	0	0	0
4/1/2024 21:07	66503	SMAN_T2	1	179	178	0.1	0.22	0.12	0	0	0	0	0	0	0	0
4/1/2024 21:07	40601	PIGR_T1	209	219	10	0.36	0.41	0.05	0	0	0	0	0	0	0	0
4/1/2024 21:07	53902	HALI_T2	1	1	0	5.4	5.7	0.3	0	0	0	0	0	0	0	0
4/1/2024 21:07	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/1/2024 21:07	66501	SMAN_T2	0	6	6	0	0.18	0.18	0	0	0	0	0	0	0	0
4/1/2024 21:07	56802	BENV_T2	171	188	17	0.38	0.4	0.02	-1.4	-1.38	0	0	0	0	0	0
4/1/2024 21:07	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
4/1/2024 21:07	46203	DANV_T2	177	79	-98	0.59	0.28	-0.31	0	0	0	0	0	0	0	0
4/1/2024 21:08	40502	CRES_T2	20	39	19	0.37	0.34	-0.03	-0.33	-0.3	0	0	0	0	0	0
4/1/2024 21:08	40501	CRES_T2	11	20	9	0.34	0.35	0.01	0	0	0	0	0	0	0	0
4/1/2024 21:08	46206	DANV_T2	0	0	0	0	0	0	1.99	1.94	1	1	0	1200	1200	0
4/1/2024 21:08	42802	SELI_T1	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
4/1/2024 21:08	46203	DANV_T2	177	79	-98	0.59	0.28	-0.31	0	0	0	0	0	0	0	0
4/1/2024 21:08	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 21:08	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 21:09	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 21:09	46206	DANV_T2	0	0	0	0	0	0	1.99	1.94	1	1	0	1200	1200	0
4/1/2024 21:09	40501	CRES_T2	11	20	9	0.34	0.35	0.01	0	0	0	0	0	0	0	0
4/1/2024 21:09	42501	ALTA_T2	0	0	0	0	0	0	-0.05	-0.06	1	1	0	600	600	0
4/1/2024 21:09	40502	CRES_T2	20	39	19	0.37	0.34	-0.03	-0.33	-0.3	0	0	0	0	0	0
4/1/2024 21:09	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 21:09	46203	DANV_T2	177	79	-98	0.59	0.28	-0.31	0	0	0	0	0	0	0	0
4/1/2024 21:09	60701	BREC_T1	0	0	0	0	0	0	-0.53	-0.54	1	1	0	600	600	0
4/1/2024 21:09	47001	HUGH_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
4/1/2024 21:10	65004	NEFF_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
4/1/2024 21:10	65001	NEFF_T2	13	199	186	0.13	0.2	0.07	0	0	0	0	0	0	0	0
4/1/2024 21:10	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 21:10	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 21:10	46206	DANV_T2	0	0	0	0	0	0	1.99	1.94	1	1	0	1200	1200	0
4/1/2024 21:10	46203	DANV_T2	177	79	-98	0.59	0.28	-0.31	0	0	0	0	0	0	0	0
4/1/2024 21:10	61801	EELI_T2	0	1	1	0	0.2	0.2	-0.89	-0.84	0	0	0	0	0	0
4/1/2024 21:11	40602	PIGR_T1	1	1	0	0.3	0	-0.3	-1.42	-1.46	2	2	0	1200	1200	0
4/1/2024 21:11	25402	LAHA_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
4/1/2024 21:11	46203	DANV_T2	177	79	-98	0.59	0.28	-0.31	-1.1	0.12	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/1/2024 21:11	52501	PROG_T1	0	0	0	0	0	0	0.36	0.36	1	1	0	300	300	0
4/1/2024 21:11	40501	CRES_T2	11	20	9	0.34	0.35	0.01	0	0	0	0	0	0	0	0
4/1/2024 21:11	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
4/1/2024 21:11	40601	PIGR_T1	209	219	10	0.36	0.41	0.05	0	0	0	0	0	0	0	0
4/1/2024 21:11	17002	RIRO_T2	4	175	171	0.13	0.18	0.05	0.36	0.35	0	0	0	0	0	0
4/1/2024 21:11	40502	CRES_T2	20	39	19	0.37	0.34	-0.03	-0.33	-0.3	0	0	0	0	0	0
4/1/2024 21:11	46206	DANV_T2	0	0	0	0	0	0	1.99	1.94	1	1	0	1200	1200	0
4/1/2024 21:12	26402	INOR_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/1/2024 21:12	42201	SHEN_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
4/1/2024 21:12	40502	CRES_T2	20	39	19	0.37	0.34	-0.03	-0.33	-0.3	0	0	0	0	0	0
4/1/2024 21:12	27502	WEIS_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/1/2024 21:12	64702	LITI_T2	0	0	0	0	0	0	-0.8	-0.75	0	0	0	0	0	0
4/1/2024 21:12	67002	STHI_T2	3	16	13	0.1	0.13	0.03	0.52	0.53	0	0	0	0	0	0
4/1/2024 21:12	56802	BENV_T2	171	188	17	0.38	0.4	0.02	-1.38	-1.35	0	0	0	0	0	0
4/1/2024 21:12	67001	STHI_T2	59	354	295	0.11	0.15	0.04	0	0	0	0	0	0	0	0
4/1/2024 21:12	26401	INOR_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
4/1/2024 21:12	40505	CRES_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
4/1/2024 21:12	40501	CRES_T2	11	20	9	0.34	0.35	0.01	0	0	0	0	0	0	0	0
4/1/2024 21:13	63804	HEMP_T1	1	5	4	5.8	1.2	-4.6	0	0	0	0	0	0	0	0
4/1/2024 21:13	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 21:13	41901	REED_T1	7	8	1	0.17	0.25	0.08	0	0	0	0	0	0	0	0
4/1/2024 21:13	46003	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/1/2024 21:13	46301	ROHR_T1	129	213	84	0.28	0.37	0.09	0.18	0.19	0	0	0	0	0	0
4/1/2024 21:13	40501	CRES_T2	11	20	9	0.34	0.35	0.01	0	0	0	0	0	0	0	0
4/1/2024 21:13	65001	NEFF_T2	13	199	186	0.13	0.2	0.07	-0.97	-1	1	1	0	1200	1200	0
4/1/2024 21:13	46302	ROHR_T1	5	17	12	1.66	0.65	-1.01	0	0	0	0	0	0	0	0
4/1/2024 21:13	63803	HEMP_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
4/1/2024 21:13	40502	CRES_T2	20	39	19	0.37	0.34	-0.03	-0.99	-0.9	0	0	0	0	0	0
4/1/2024 21:13	46004	BERW_T2	0	0	0	0	0	0	-0.47	-0.53	0	0	0	0	0	0
4/1/2024 21:13	13901	SEID_T1	0	0	0	0	0	0	-0.83	-0.85	1	1	0	1200	1200	0
4/1/2024 21:13	67001	STHI_T2	59	354	295	0.11	0.15	0.04	0	0	0	0	0	0	0	0
4/1/2024 21:13	43201	MVIL_T2	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
4/1/2024 21:13	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
4/1/2024 21:13	63801	HEMP_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/1/2024 21:13	42001	MNVL_T2	0	1	1	0	0	0	0	-0.02	0	0	0	0	0	0
4/1/2024 21:13	43202	MVIL_T2	61	101	40	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
4/1/2024 21:13	41902	REED_T1	0	0	0	0	0	0	1.08	1.01	0	0	0	0	0	0
4/1/2024 21:13	56501	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/1/2024 21:13	20403	ASHF_T2	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
4/1/2024 21:13	42002	MNVL_T2	1	1	0	4.2	4.2	0	0	0	0	0	0	0	0	0
4/1/2024 21:13	67002	STHI_T2	3	16	13	0.1	0.13	0.03	0.52	0.53	0	0	0	0	0	0
4/1/2024 21:13	63802	HEMP_T1	1	12	11	0.1	0.13	0.03	0.07	0.1	0	0	0	0	0	0
4/1/2024 21:14	67204	TEHI_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
4/1/2024 21:14	67001	STHI_T2	59	354	295	0.11	0.15	0.04	0	0	0	0	0	0	0	0
4/1/2024 21:14	63803	HEMP_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
4/1/2024 21:14	63802	HEMP_T1	1	12	11	0.1	0.13	0.03	0.07	0.1	0	0	0	0	0	0
4/1/2024 21:14	63804	HEMP_T1	1	5	4	5.8	1.2	-4.6	0	0	0	0	0	0	0	0
4/1/2024 21:14	40505	CRES_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
4/1/2024 21:14	54204	PENN_T2	3	3	0	0.63	0.87	0.24	0	0	0	0	0	0	0	0
4/1/2024 21:14	63801	HEMP_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/1/2024 21:14	54202	PENN_T2	307	430	123	0.21	0.38	0.17	0.51	0.52	0	0	0	0	0	0
4/1/2024 21:14	42201	SHEN_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
4/1/2024 21:14	56501	ROCK_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 21:14	54206	PENN_T2	107	301	194	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
4/1/2024 21:14	67002	STHI_T2	3	16	13	0.1	0.13	0.03	0.52	0.53	0	0	0	0	0	0
4/1/2024 21:15	42201	SHEN_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
4/1/2024 21:15	14404	SSLA_T1	1	2	1	5.8	2.95	-2.85	0	0	0	0	0	0	0	0
4/1/2024 21:15	56501	ROCK_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/1/2024 21:15	41901	REED_T1	8	5	-3	0.25	0.16	-0.09	0	0	0	0	0	0	0	0
4/1/2024 21:15	14403	SSLA_T1	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
4/1/2024 21:15	60803	BUCK_T1	0	0	0	0	0	0	-0.55	-0.56	1	1	0	600	600	0
4/1/2024 21:15	41902	REED_T1	0	0	0	0	0	0	1.08	1.01	0	0	0	0	0	0
4/1/2024 21:15	40501	CRES_T2	17	19	2	0.33	0.37	0.04	0	0	0	0	0	0	0	0
4/1/2024 21:15	59201	THOM_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/1/2024 21:15	59202	THOM_T1	17	9	-8	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
4/1/2024 21:15	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
4/1/2024 21:15	46206	DANV_T2	0	0	0	0	0	0	1.99	1.94	1	1	0	1200	1200	0
4/1/2024 21:15	40505	CRES_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
4/1/2024 21:15	15604	NSTR_T1	1	1	0	0.4	0.8	0.4	0.25	0.24	0	0	0	0	0	0
4/1/2024 21:15	46203	DANV_T2	79	0	-79	0.28	0	-0.28	0	0	0	0	0	0	0	0
4/1/2024 21:15	20403	ASHF_T2	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
4/1/2024 21:15	46004	BERW_T2	0	0	0	0	0	0	-0.47	-0.53	0	0	0	0	0	0
4/1/2024 21:15	40502	CRES_T2	32	39	7	0.34	0.34	0	-0.66	-0.6	0	0	0	0	0	0
4/1/2024 21:16	59402	RELD_T2	0	0	0	0	0	0	-1.7	-1.72	2	2	0	900	900	0
4/1/2024 21:16	44601	SALE_T2	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
4/1/2024 21:16	40602	PIGR_T1	0	1	1	0	0.5	0.5	-0.71	-0.73	1	1	0	600	600	0
4/1/2024 21:16	40601	PIGR_T1	217	177	-40	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/1/2024 21:16	40501	CRES_T2	17	19	2	0.33	0.37	0.04	0	0	0	0	0	0	0	0
4/1/2024 21:16	67001	STHI_T2	272	385	113	0.13	0.16	0.03	0	0	0	0	0	0	0	0
4/1/2024 21:16	67002	STHI_T2	10	32	22	0.12	0.13	0.01	0.52	0.53	0	0	0	0	0	0
4/1/2024 21:16	46004	BERW_T2	0	0	0	0	0	0	-0.47	-0.53	0	0	0	0	0	0
4/1/2024 21:16	60701	BREC_T1	0	0	0	0	0	0	-0.53	-0.54	1	1	0	600	600	0
4/1/2024 21:16	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
4/1/2024 21:16	46206	DANV_T2	0	0	0	0	0	0	1.99	1.94	1	1	0	1200	1200	0
4/1/2024 21:16	56802	BENV_T2	144	194	50	0.3	0.39	0.09	-1.38	-1.35	0	0	0	0	0	0
4/1/2024 21:16	40502	CRES_T2	32	39	7	0.34	0.34	0	-0.99	-0.9	0	0	0	0	0	0
4/1/2024 21:16	20403	ASHF_T2	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
4/1/2024 21:16	15604	NSTR_T1	1	1	0	0.4	0.8	0.4	0.25	0.24	0	0	0	0	0	0
4/1/2024 21:16	46203	DANV_T2	79	0	-79	0.28	0	-0.28	-1.1	0.12	0	0	0	0	0	0
4/1/2024 21:17	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 21:17	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 21:17	46504	LOHA_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
4/1/2024 21:17	59101	WALK_T2	0	0	0	0	0	0	1.09	1.08	0	0	0	0	0	0
4/1/2024 21:17	46506	LOHA_T1	0	1	1	0	0.3	0.3	-0.44	-0.46	0	0	0	0	0	0
4/1/2024 21:17	16402	MOPO_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
4/1/2024 21:17	16302	ALPA_T2	0	0	0	0	0	0	0.6	0.71	0	0	0	0	0	0
4/1/2024 21:18	46203	DANV_T2	79	0	-79	0.28	0	-0.28	0	0	0	0	0	0	0	0
4/1/2024 21:18	46206	DANV_T2	0	0	0	0	0	0	3.98	3.87	2	2	0	2400	2400	0
4/1/2024 21:18	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 21:19	40501	CRES_T2	17	19	2	0.33	0.37	0.04	0	0	0	0	0	0	0	0
4/1/2024 21:19	55002	NEWP_T1	6	6	0	0.82	1.15	0.33	-0.26	-0.27	0	0	0	0	0	0
4/1/2024 21:19	40502	CRES_T2	32	39	7	0.34	0.34	0	-0.66	-0.6	0	0	0	0	0	0
4/1/2024 21:19	57401	SPAN_T1	2	2	0	1.05	1.35	0.3	0	0	0	0	0	0	0	0
4/1/2024 21:19	56501	ROCK_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/1/2024 21:19	56802	BENV_T2	144	194	50	0.3	0.39	0.09	-1.38	-1.35	0	0	0	0	0	0
4/1/2024 21:19	14403	SSLA_T1	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
4/1/2024 21:19	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
4/1/2024 21:19	28604	BLYT_T2	1	0	-1	0.2	0	-0.2	-1.5	-1.51	0	0	0	0	0	0
4/1/2024 21:19	12701	MACU_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
4/1/2024 21:19	14404	SSLA_T1	1	2	1	5.8	2.95	-2.85	0	0	0	0	0	0	0	0
4/1/2024 21:19	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/1/2024 21:19	57403	SPAN_T1	170	172	2	0.38	0.45	0.07	0.03	0.04	0	0	0	0	0	0
4/1/2024 21:20	45402	WBLO_T2	15	18	3	0.2	0.13	-0.07	-0.85	-0.87	0	0	0	0	0	0
4/1/2024 21:20	10801	CHHI_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	900	900	0
4/1/2024 21:20	53901	HALI_T2	3	2	-1	0.57	0.6	0.03	0	0	0	0	0	0	0	0
4/1/2024 21:20	53903	HALI_T2	2	2	0	1.25	1.6	0.35	-0.21	-0.19	0	0	0	0	0	0
4/1/2024 21:20	56802	BENV_T2	144	194	50	0.3	0.39	0.09	-1.38	-1.35	0	0	0	0	0	0
4/1/2024 21:20	62604	ENGL_T1	0	0	0	0	0	0	-0.53	-0.5	1	1	0	600	600	0
4/1/2024 21:20	53902	HALI_T2	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
4/1/2024 21:20	13704	SCHN_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
4/1/2024 21:20	43202	MVIL_T2	75	122	47	0.61	0.62	0.01	-0.72	-0.72	0	0	0	0	0	0
4/1/2024 21:21	53901	HALI_T2	3	2	-1	0.57	0.6	0.03	0	0	0	0	0	0	0	0
4/1/2024 21:21	56802	BENV_T2	144	194	50	0.3	0.39	0.09	-1.38	-1.35	0	0	0	0	0	0
4/1/2024 21:21	53903	HALI_T2	2	2	0	1.25	1.6	0.35	-0.21	-0.19	0	0	0	0	0	0
4/1/2024 21:21	13704	SCHN_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
4/1/2024 21:21	15001	BLMO_T1	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
4/1/2024 21:21	59101	WALK_T2	0	0	0	0	0	0	1.09	1.08	0	0	0	0	0	0
4/1/2024 21:21	53902	HALI_T2	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
4/1/2024 21:22	56802	BENV_T2	144	194	50	0.3	0.39	0.09	-1.38	-1.35	0	0	0	0	0	0
4/1/2024 21:22	40501	CRES_T2	17	19	2	0.33	0.37	0.04	0	0	0	0	0	0	0	0
4/1/2024 21:22	40502	CRES_T2	32	39	7	0.34	0.34	0	-0.33	-0.3	0	0	0	0	0	0
4/1/2024 21:22	67401	WAKE_T2	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
4/1/2024 21:23	54502	ENOL_T2	16	34	18	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
4/1/2024 21:23	54206	PENN_T2	260	286	26	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
4/1/2024 21:23	54505	ENOL_T2	1	1	0	1.5	1.5	0	-1.36	-1.34	1	1	0	600	600	0
4/1/2024 21:23	54204	PENN_T2	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0	0
4/1/2024 21:23	57303	MOAL_T2	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
4/1/2024 21:23	46302	ROHR_T1	9	22	13	1.04	0.52	-0.52	0.18	0.17	0	0	0	0	0	0
4/1/2024 21:23	26001	WDAM_T1	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
4/1/2024 21:23	57304	MOAL_T2	10	35	25	0.3	0.29	-0.01	-0.52	-0.58	0	0	0	0	0	0
4/1/2024 21:23	57301	MOAL_T2	3	7	4	0.1	0.31	0.21	0	0	0	0	0	0	0	0
4/1/2024 21:23	46301	ROHR_T1	198	207	9	0.37	0.38	0.01	0	0	0	0	0	0	0	0
4/1/2024 21:23	12701	MACU_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
4/1/2024 21:23	54202	PENN_T2	396	425	29	0.34	0.37	0.03	0.52	0.49	0	0	0	0	0	0
4/1/2024 21:23	26002	WDAM_T1	5	5	0	0.16	0.42	0.26	0	0	0	0	0	0	0	0
4/1/2024 21:23	56802	BENV_T2	144	194	50	0.3	0.39	0.09	-2.71	-2.8	0	0	0	0	0	0
4/1/2024 21:23	25503	MADI_T1	0	0	0	0	0	0	-1.02	-1	0	0	0	0	0	0
4/1/2024 21:23	59101	WALK_T2	0	0	0	0	0	0	2.16	2.33	0	0	0	0	0	0
4/1/2024 21:23	54501	ENOL_T2	4	4	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/1/2024 21:24	56802	BENV_T2	144	194	50	0.3	0.39	0.09	-1.35	-1.4	0	0	0	0	0	0
4/1/2024 21:24	42802	SELI_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
4/1/2024 21:24	45501	DERR_T2	0	0	0	0	0	0	-0.18	-0.35	2	2	0	1800	1800	0
4/1/2024 21:24	67402	WAKE_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
4/1/2024 21:24	56501	ROCK_T2	0	3	3	0	0.23	0.23	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 21:24	64802	MONE_T2	1	2	1	0.1	0.15	0.05	-0.04	-0.03	0	0	0	0	0	0
4/1/2024 21:24	15001	BLMO_T1	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
4/1/2024 21:25	56801	BENV_T1	17	17	0	0.8	0.45	-0.35	-0.79	-0.82	1	1	0	600	600	0
4/1/2024 21:25	56802	BENV_T2	144	194	50	0.3	0.39	0.09	-5.41	-5.6	0	0	0	0	0	0
4/1/2024 21:25	56803	BENV_T1	5	5	0	0.32	0.76	0.44	0	0	0	0	0	0	0	0
4/1/2024 21:26	55002	NEWP_T1	6	6	0	0.82	1.15	0.33	-0.27	-0.27	0	0	0	0	0	0
4/1/2024 21:26	67901	WNHO_T2	271	203	-68	0.68	0.47	-0.21	-0.56	-0.55	0	0	0	0	0	0
4/1/2024 21:27	54202	PENN_T2	396	425	29	0.34	0.37	0.03	0	0	0	0	0	0	0	0
4/1/2024 21:27	54505	ENOL_T2	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/1/2024 21:27	54501	ENOL_T2	4	4	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/1/2024 21:27	54502	ENOL_T2	16	34	18	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
4/1/2024 21:27	66703	STRA_T1	1	4	3	0.3	0.3	0	-0.42	-0.42	0	0	0	0	0	0
4/1/2024 21:27	50103	HARR_T3	2	0	-2	0.95	0	-0.95	0.38	0.23	0	0	0	0	0	0
4/1/2024 21:27	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/1/2024 21:27	52402	GRPA_T2	5	5	0	1.38	1.56	0.18	-0.91	-0.91	0	0	0	0	0	0
4/1/2024 21:27	45702	LIND_T2	1	1	0	1.1	0.2	-0.9	-0.58	-0.59	0	0	0	0	0	0
4/1/2024 21:27	54503	ENOL_T2	0	0	0	0	0	0	-1.29	-1.27	1	1	0	600	600	0
4/1/2024 21:27	50201	HARR_T3	2	2	0	5.15	4.8	-0.35	0	0	0	0	0	0	0	0
4/1/2024 21:27	52401	GRPA_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/1/2024 21:27	54204	PENN_T2	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0	0
4/1/2024 21:27	50102	HARR_T3	44	16	-28	0.23	0.29	0.06	0	0	0	0	0	0	0	0
4/1/2024 21:27	54206	PENN_T2	260	286	26	0.32	0.31	-0.01	-0.08	-0.08	0	0	0	0	0	0
4/1/2024 21:27	50202	HARR_T3	1	1	0	1	1	0	0	0	0	0	0	0	0	0
4/1/2024 21:27	50105	HARR_T3	8	8	0	5.61	5.81	0.2	0	0	0	0	0	0	0	0
4/1/2024 21:28	54206	PENN_T2	260	286	26	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
4/1/2024 21:28	40902	JESH_T1	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
4/1/2024 21:28	55002	NEWP_T1	6	6	0	0.82	1.15	0.33	-0.27	-0.27	0	0	0	0	0	0
4/1/2024 21:28	54204	PENN_T2	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0	0
4/1/2024 21:28	45602	WOOL_T1	1	1	0	0.1	0.2	0.1	0.36	0.36	0	0	0	0	0	0
4/1/2024 21:28	54202	PENN_T2	396	425	29	0.34	0.37	0.03	0.52	0.49	0	0	0	0	0	0
4/1/2024 21:29	56501	ROCK_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/1/2024 21:29	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
4/1/2024 21:29	55002	NEWP_T1	6	6	0	0.82	1.15	0.33	-0.27	-0.27	0	0	0	0	0	0
4/1/2024 21:30	54505	ENOL_T2	1	1	0	1.5	1.2	-0.3	0	0	0	0	0	0	0	0
4/1/2024 21:30	54204	PENN_T2	3	3	0	0.87	0.73	-0.14	0	0	0	0	0	0	0	0
4/1/2024 21:30	46506	LOHA_T1	1	0	-1	0.3	0	-0.3	-0.46	-0.43	0	0	0	0	0	0
4/1/2024 21:30	65902	SAKR_T2	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
4/1/2024 21:30	50105	HARR_T3	8	8	0	5.85	5.73	-0.12	0	0	0	0	0	0	0	0
4/1/2024 21:30	46504	LOHA_T1	1	2	1	0.1	0.85	0.75	0	0	0	0	0	0	0	0
4/1/2024 21:30	54502	ENOL_T2	34	1	-33	0.13	0.5	0.37	0	0	0	0	0	0	0	0
4/1/2024 21:30	54202	PENN_T2	424	388	-36	0.37	0.27	-0.1	0	0	0	0	0	0	0	0
4/1/2024 21:30	50201	HARR_T3	2	2	0	4.8	4.6	-0.2	0	0	0	0	0	0	0	0
4/1/2024 21:30	50202	HARR_T3	1	1	0	1	1	0	0	0	0	0	0	0	0	0
4/1/2024 21:30	54501	ENOL_T2	4	3	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/1/2024 21:30	54503	ENOL_T2	0	0	0	0	0	0	-1.29	-1.27	1	1	0	600	600	0
4/1/2024 21:30	54206	PENN_T2	276	191	-85	0.32	0.3	-0.02	-0.08	-0.08	0	0	0	0	0	0
4/1/2024 21:30	50103	HARR_T3	0	2	2	0	0.25	0.25	0.38	0.23	0	0	0	0	0	0
4/1/2024 21:30	50102	HARR_T3	15	19	4	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/1/2024 21:31	43103	SMIL_T2	19	19	0	0.43	1.05	0.62	0	0	0	0	0	0	0	0
4/1/2024 21:31	43105	SMIL_T2	27	31	4	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
4/1/2024 21:31	54505	ENOL_T2	1	1	0	1.5	1.2	-0.3	-1.36	-1.34	1	1	0	600	600	0
4/1/2024 21:31	54501	ENOL_T2	4	3	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/1/2024 21:31	59101	WALK_T2	0	0	0	0	0	0	1.08	1.16	0	0	0	0	0	0
4/1/2024 21:31	43104	SMIL_T2	0	0	0	0	0	0	-0.83	-0.85	1	1	0	300	300	0
4/1/2024 21:31	54502	ENOL_T2	34	1	-33	0.13	0.5	0.37	0	0	0	0	0	0	0	0
4/1/2024 21:31	43102	SMIL_T2	8	8	0	0.59	0.94	0.35	0	0	0	0	0	0	0	0
4/1/2024 21:31	56501	ROCK_T2	1	5	4	0.1	0.24	0.14	-0.01	-0.01	0	0	0	0	0	0
4/1/2024 21:34	54206	PENN_T2	276	191	-85	0.32	0.3	-0.02	-0.08	-0.08	0	0	0	0	0	0
4/1/2024 21:34	54202	PENN_T2	424	388	-36	0.37	0.27	-0.1	0	0	0	0	0	0	0	0
4/1/2024 21:34	57403	SPAN_T1	145	172	27	0.34	0.45	0.11	0.04	0.02	0	0	0	0	0	0
4/1/2024 21:34	54204	PENN_T2	3	3	0	0.87	0.73	-0.14	0	0	0	0	0	0	0	0
4/1/2024 21:34	57401	SPAN_T1	2	2	0	1.25	1.6	0.35	0	0	0	0	0	0	0	0
4/1/2024 21:35	55105	WERT_T1	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
4/1/2024 21:36	50502	MECH_T1	4	45	41	0.93	0.23	-0.7	0	0	0	0	0	0	0	0
4/1/2024 21:36	50505	MECH_T1	69	306	237	0.11	0.16	0.05	0	0	0	0	0	0	0	0
4/1/2024 21:36	50503	MECH_T1	46	142	96	0.11	0.2	0.09	0	0	0	0	0	0	0	0
4/1/2024 21:36	46506	LOHA_T1	1	0	-1	0.3	0	-0.3	-0.46	-0.43	0	0	0	0	0	0
4/1/2024 21:36	50501	MECH_T1	21	150	129	0.5	0.24	-0.26	0	0	0	0	0	0	0	0
4/1/2024 21:36	46504	LOHA_T1	1	2	1	0.1	0.85	0.75	0	0	0	0	0	0	0	0
4/1/2024 21:36	50504	MECH_T1	158	527	369	0.17	0.24	0.07	0	0	0	0	0	0	0	0
4/1/2024 21:36	50506	MECH_T1	257	896	639	0.12	0.2	0.08	-0.13	-0.12	0	0	0	0	0	0
4/1/2024 21:37	40502	CRES_T2	39	32	-7	0.34	0.35	0.01	-0.3	-0.35	0	0	0	0	0	0
4/1/2024 21:37	40501	CRES_T2	18	18	0	0.34	0.35	0.01	0	0	0	0	0	0	0	0
4/1/2024 22:17	60101	COCA_T1	0	0	0	0	0	0	0.19	0.16	0	0	0	0	0	0
4/1/2024 22:24	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
4/2/2024 7:51	26002	WDAM_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/2/2024 7:51	26001	WDAM_T1	0	0	0	0	0	0	-0.8	-0.72	0	0	0	0	0	0
4/2/2024 9:34	67204	TEHI_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
4/2/2024 9:35	43202	MVIL_T2	14	29	15	0.14	0.16	0.02	-0.57	-0.56	0	0	0	0	0	0
4/2/2024 9:37	67204	TEHI_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
4/2/2024 9:40	67402	WAKE_T2	0	0	0	0	0	0	0.42	0.39	1	1	0	600	600	0
4/2/2024 9:48	56802	BENV_T2	1	1	0	1.3	1	-0.3	-1.41	-1.36	0	0	0	0	0	0
4/2/2024 9:49	49804	UNIV_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/2/2024 9:49	49803	UNIV_T1	0	0	0	0	0	0	-1.05	-0.92	0	0	0	0	0	0
4/2/2024 10:28	26401	INOR_T1	0	0	0	0	0	0	1.14	1.08	0	0	0	0	0	0
4/2/2024 10:29	53903	HALI_T2	2	2	0	1.2	1.3	0.1	-0.14	-0.14	0	0	0	0	0	0
4/2/2024 10:29	53901	HALI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/2/2024 10:29	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
4/2/2024 10:29	64702	LITI_T2	0	0	0	0	0	0	-0.76	-0.67	0	0	0	0	0	0
4/2/2024 10:31	43202	MVIL_T2	73	113	40	0.63	0.56	-0.07	-0.57	-0.58	0	0	0	0	0	0
4/2/2024 10:31	25402	LAHA_T2	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
4/2/2024 10:32	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 10:32	54206	PENN_T2	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
4/2/2024 10:34	64101	REFR_T1	0	0	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
4/2/2024 10:34	16402	MOPO_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
4/2/2024 10:38	17002	RIRO_T2	6	17	11	0.13	0.14	0.01	0.69	0.69	0	0	0	0	0	0
4/2/2024 10:39	56802	BENV_T2	1	1	0	0.9	1.3	0.4	-1.36	-1.33	0	0	0	0	0	0
4/2/2024 10:40	10801	CHHI_T1	0	0	0	0	0	0	-0.64	-0.69	1	1	0	900	900	0
4/2/2024 10:40	67001	STHI_T2	5	9	4	0.22	0.17	-0.05	0	0	0	0	0	0	0	0
4/2/2024 10:40	67002	STHI_T2	0	1	1	0	0.1	0.1	0.57	0.59	0	0	0	0	0	0
4/2/2024 10:41	46801	HEPB_T2	2	2	0	0.2	0.25	0.05	0.65	0.62	0	0	0	0	0	0
4/2/2024 10:41	55002	NEWP_T1	5	6	1	0.74	0.97	0.23	-0.25	-0.23	0	0	0	0	0	0
4/2/2024 10:42	46206	DANV_T2	0	0	0	0	0	0	1.28	1.38	1	1	0	1200	1200	0
4/2/2024 10:42	46203	DANV_T2	199	208	9	0.72	0.68	-0.04	0	0	0	0	0	0	0	0
4/2/2024 10:42	56802	BENV_T2	1	1	0	0.9	1.3	0.4	-1.36	-1.33	0	0	0	0	0	0
4/2/2024 10:43	67001	STHI_T2	5	9	4	0.22	0.17	-0.05	0	0	0	0	0	0	0	0
4/2/2024 10:43	53502	EVIL_T2	1	1	0	1.3	0.2	-1.1	0	0	0	0	0	0	0	0
4/2/2024 10:43	57303	MOAL_T2	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
4/2/2024 10:43	53501	EVIL_T2	2	1	-1	1.2	4.2	3	-0.3	-0.32	1	1	0	600	600	0
4/2/2024 10:43	57304	MOAL_T2	0	0	0	0	0	0	-0.46	-0.4	0	0	0	0	0	0
4/2/2024 10:43	67002	STHI_T2	0	1	1	0	0.1	0.1	3.4	3.52	0	0	0	0	0	0
4/2/2024 10:43	55002	NEWP_T1	5	6	1	0.74	0.97	0.23	-0.25	-0.23	0	0	0	0	0	0
4/2/2024 10:44	50102	HARR_T3	2	5	3	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
4/2/2024 10:44	67002	STHI_T2	0	1	1	0	0.1	0.1	0.57	0.59	0	0	0	0	0	0
4/2/2024 10:44	41902	REED_T1	0	0	0	0	0	0	1.15	1.12	0	0	0	0	0	0
4/2/2024 10:44	50103	HARR_T3	2	2	0	1.05	0.85	-0.2	-0.99	-0.85	1	1	0	1200	1200	0
4/2/2024 10:44	67001	STHI_T2	5	9	4	0.22	0.17	-0.05	0	0	0	0	0	0	0	0
4/2/2024 10:44	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/2/2024 10:44	46203	DANV_T2	199	208	9	0.72	0.68	-0.04	-1.02	-1.03	0	0	0	0	0	0
4/2/2024 10:44	50202	HARR_T3	1	0	-1	6.7	0	-6.7	0	0	0	0	0	0	0	0
4/2/2024 10:44	50201	HARR_T3	1	2	1	9.3	4.85	-4.45	0	0	0	0	0	0	0	0
4/2/2024 10:44	50105	HARR_T3	8	8	0	6.28	6.1	-0.18	0	0	0	0	0	0	0	0
4/2/2024 10:44	65001	NEFF_T2	0	0	0	0	0	0	-0.59	-0.39	1	1	0	1200	1200	0
4/2/2024 10:45	45402	WBLO_T2	2	2	0	0.25	0.3	0.05	-0.76	-0.77	0	0	0	0	0	0
4/2/2024 10:47	40101	HUNT_T2	6	6	0	0.25	0.1	-0.15	-0.26	-0.25	0	0	0	0	0	0
4/2/2024 10:47	40602	PIGR_T1	1	1	0	1.7	1.6	-0.1	-0.4	-0.41	1	1	0	600	600	0
4/2/2024 10:47	65001	NEFF_T2	0	0	0	0	0	0	-0.59	-0.39	1	1	0	1200	1200	0
4/2/2024 10:48	53502	EVIL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/2/2024 10:48	46302	ROHR_T1	11	11	0	0.8	1.01	0.21	0	0	0	0	0	0	0	0
4/2/2024 10:48	53501	EVIL_T2	1	1	0	4.2	1.6	-2.6	-0.3	-0.32	1	1	0	600	600	0
4/2/2024 10:48	42201	SHEN_T2	0	0	0	0	0	0	-0.17	-0.16	1	1	0	600	600	0
4/2/2024 10:48	46301	ROHR_T1	200	188	-12	0.32	0.32	0	0.21	0.21	0	0	0	0	0	0
4/2/2024 10:49	46302	ROHR_T1	11	11	0	0.8	1.01	0.21	0.19	0.2	0	0	0	0	0	0
4/2/2024 10:49	40602	PIGR_T1	1	1	0	1.7	1.6	-0.1	-0.8	-0.82	2	2	0	1200	1200	0
4/2/2024 10:49	46301	ROHR_T1	200	188	-12	0.32	0.32	0	0	0	0	0	0	0	0	0
4/2/2024 10:49	56501	ROCK_T2	6	3	-3	0.32	0.4	0.08	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 10:50	67204	TEHI_T2	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
4/2/2024 10:50	20403	ASHF_T2	0	0	0	0	0	0	0.23	0.26	0	0	0	0	0	0
4/2/2024 10:51	56501	ROCK_T2	6	3	-3	0.32	0.4	0.08	-0.02	-0.02	0	0	0	0	0	0
4/2/2024 10:52	59101	WALK_T2	0	0	0	0	0	0	1.81	1.55	1	1	0	600	600	0
4/2/2024 10:52	67204	TEHI_T2	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
4/2/2024 10:52	53601	DALM_T2	1	1	0	0.4	0.7	0.3	0.03	0.04	0	0	0	0	0	0
4/2/2024 10:53	46203	DANV_T2	206	159	-47	0.68	0.59	-0.09	0	0	0	0	0	0	0	0
4/2/2024 10:53	53901	HALI_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
4/2/2024 10:53	59101	WALK_T2	0	0	0	0	0	0	3.09	2.75	2	2	0	1200	1200	0
4/2/2024 10:53	46206	DANV_T2	0	0	0	0	0	0	1.38	1.29	1	1	0	1200	1200	0
4/2/2024 10:53	53903	HALI_T2	2	2	0	1.05	1.25	0.2	-0.14	-0.13	0	0	0	0	0	0
4/2/2024 10:53	53902	HALI_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
4/2/2024 10:53	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 10:54	59101	WALK_T2	0	0	0	0	0	0	1.55	1.38	1	1	0	600	600	0
4/2/2024 10:54	66703	STRA_T1	0	0	0	0	0	0	-0.2	-0.23	0	0	0	0	0	0
4/2/2024 10:55	56802	BENV_T2	1	1	0	1.1	1.3	0.2	-1.33	-1.32	0	0	0	0	0	0
4/2/2024 10:56	40101	HUNT_T2	6	6	0	0.25	0.1	-0.15	-0.25	-0.36	0	0	0	0	0	0
4/2/2024 10:57	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 10:57	56802	BENV_T2	1	1	0	1.1	1.3	0.2	-2.67	-2.65	0	0	0	0	0	0
4/2/2024 10:58	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 10:58	40502	CRES_T2	11	0	-11	0.25	0	-0.25	-0.18	-0.14	0	0	0	0	0	0
4/2/2024 10:58	40101	HUNT_T2	6	6	0	0.25	0.1	-0.15	-0.25	-0.36	0	0	0	0	0	0
4/2/2024 10:58	46203	DANV_T2	206	159	-47	0.68	0.59	-0.09	-1.03	-1.01	0	0	0	0	0	0
4/2/2024 10:58	56802	BENV_T2	1	1	0	1.1	1.3	0.2	-1.33	-1.32	0	0	0	0	0	0
4/2/2024 10:59	64204	KINZ_T1	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
4/2/2024 10:59	64203	KINZ_T1	0	0	0	0	0	0	0.98	1.07	1	1	0	600	600	0
4/2/2024 11:00	43202	MVIL_T2	105	93	-12	0.4	0.56	0.16	0	0	0	0	0	0	0	0
4/2/2024 11:00	15704	TANN_T1	0	0	0	0	0	0	-1.17	-1.18	0	0	0	0	0	0
4/2/2024 11:00	43201	MVIL_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
4/2/2024 11:00	15701	TANN_T1	1	1	0	4.3	4.1	-0.2	0	0	0	0	0	0	0	0
4/2/2024 11:01	40101	HUNT_T2	1	13	12	0.1	0.42	0.32	-0.5	-0.71	0	0	0	0	0	0
4/2/2024 11:01	47001	HUGH_T2	0	0	0	0	0	0	-0.81	-0.79	0	0	0	0	0	0
4/2/2024 11:02	45702	LIND_T2	1	1	0	0.5	0.5	0	-0.36	-0.41	0	0	0	0	0	0
4/2/2024 11:03	59301	MCAL_T1	0	0	0	0	0	0	-1.59	-1.6	1	1	0	600	600	0
4/2/2024 11:03	13901	SEID_T1	0	0	0	0	0	0	0.54	0.59	0	0	0	0	0	0
4/2/2024 11:05	57403	SPAN_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/2/2024 11:05	27502	WEIS_T2	0	2	2	0	0	0	0.16	-0.46	0	0	0	0	0	0
4/2/2024 11:05	57401	SPAN_T1	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
4/2/2024 11:06	43802	SWIL_T1	0	0	0	0	0	0	-0.19	-0.17	1	1	0	600	600	0
4/2/2024 11:06	52501	PROG_T1	0	0	0	0	0	0	0.42	0.39	1	1	0	300	300	0
4/2/2024 11:06	43801	SWIL_T1	2	2	0	2.75	2.7	-0.05	0	0	0	0	0	0	0	0
4/2/2024 11:06	60605	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 11:07	56501	ROCK_T2	3	2	-1	0.4	0.3	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 11:08	57403	SPAN_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
4/2/2024 11:08	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 11:08	57401	SPAN_T1	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
4/2/2024 11:08	45602	WOOL_T1	1	0	-1	0.1	0	-0.1	0.49	0.5	0	0	0	0	0	0
4/2/2024 11:08	60605	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 11:09	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 11:10	51006	NHAR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/2/2024 11:10	56802	BENV_T2	1	1	0	1.3	0.8	-0.5	-1.32	-1.43	0	0	0	0	0	0
4/2/2024 11:10	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 11:10	51004	NHAR_T1	13	12	-1	1.2	1.01	-0.19	-0.41	-0.44	0	0	0	0	0	0
4/2/2024 11:10	51002	NHAR_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
4/2/2024 11:11	60101	COCA_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
4/2/2024 11:11	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 11:11	56802	BENV_T2	1	1	0	1.3	0.8	-0.5	-1.32	-1.43	0	0	0	0	0	0
4/2/2024 11:11	45602	WOOL_T1	1	0	-1	0.1	0	-0.1	0.49	0.5	0	0	0	0	0	0
4/2/2024 11:12	56501	ROCK_T2	3	2	-1	0.4	0.3	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 11:12	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 11:13	45602	WOOL_T1	1	0	-1	0.1	0	-0.1	0.49	0.5	0	0	0	0	0	0
4/2/2024 11:13	53501	EVIL_T2	1	1	0	5.1	1.4	-3.7	-0.37	-0.4	1	1	0	600	600	0
4/2/2024 11:13	53502	EVIL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/2/2024 11:14	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 11:15	60803	BUCK_T1	0	0	0	0	0	0	-1.18	-1.18	1	1	0	600	600	0
4/2/2024 11:17	40101	HUNT_T2	6	38	32	0.42	0.45	0.03	-0.36	-0.38	0	0	0	0	0	0
4/2/2024 11:18	55002	NEWP_T1	4	4	0	1.05	0.93	-0.12	-0.26	-0.26	0	0	0	0	0	0
4/2/2024 11:19	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/2/2024 11:19	67002	STHI_T2	0	23	23	0	0.12	0.12	0.61	0.61	0	0	0	0	0	0
4/2/2024 11:19	42802	SELI_T1	0	0	0	0	0	0	-0.75	-0.82	1	1	0	900	900	0
4/2/2024 11:19	42803	SELI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 11:19	64902	MILL_T2	0	0	0	0	0	0	-0.73	-0.74	1	1	0	900	900	0
4/2/2024 11:19	41902	REED_T1	0	0	0	0	0	0	1.1	1.09	0	0	0	0	0	0
4/2/2024 11:19	67001	STHI_T2	4	386	382	0.23	0.14	-0.09	0	0	0	0	0	0	0	0
4/2/2024 11:19	67204	TEHI_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
4/2/2024 11:20	43801	SWIL_T1	2	2	0	2.65	2.7	0.05	0	0	0	0	0	0	0	0
4/2/2024 11:20	67001	STHI_T2	4	386	382	0.23	0.14	-0.09	0	0	0	0	0	0	0	0
4/2/2024 11:20	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.14	1	1	0	600	600	0
4/2/2024 11:20	67002	STHI_T2	0	23	23	0	0.12	0.12	0.61	0.61	0	0	0	0	0	0
4/2/2024 11:21	42803	SELI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 11:21	67002	STHI_T2	0	23	23	0	0.12	0.12	0.61	0.61	0	0	0	0	0	0
4/2/2024 11:21	27502	WEIS_T2	2	0	-2	0.75	0	-0.75	-0.46	-0.48	0	0	0	0	0	0
4/2/2024 11:21	67001	STHI_T2	4	386	382	0.23	0.14	-0.09	0	0	0	0	0	0	0	0
4/2/2024 11:21	42802	SELI_T1	0	0	0	0	0	0	-0.75	-0.82	1	1	0	900	900	0
4/2/2024 11:21	67204	TEHI_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
4/2/2024 11:22	60605	NCOL_T2	0	4	4	0	0.7	0.7	0	0	0	0	0	0	0	0
4/2/2024 11:22	55002	NEWP_T1	4	4	0	1.05	0.93	-0.12	-0.26	-0.26	0	0	0	0	0	0
4/2/2024 11:22	67002	STHI_T2	0	23	23	0	0.12	0.12	0.61	0.61	0	0	0	0	0	0
4/2/2024 11:22	67001	STHI_T2	4	386	382	0.23	0.14	-0.09	0	0	0	0	0	0	0	0
4/2/2024 11:23	26001	WDAM_T1	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
4/2/2024 11:23	60605	NCOL_T2	0	4	4	0	0.7	0.7	0	0	0	0	0	0	0	0
4/2/2024 11:24	60605	NCOL_T2	0	4	4	0	0.7	0.7	0	0	0	0	0	0	0	0
4/2/2024 11:25	56802	BENV_T2	1	1	0	0.7	0.8	0.1	-1.43	-1.41	0	0	0	0	0	0
4/2/2024 11:25	60605	NCOL_T2	0	4	4	0	0.7	0.7	0	0	0	0	0	0	0	0
4/2/2024 11:25	67002	STHI_T2	0	23	23	0	0.12	0.12	2.44	2.58	0	0	0	0	0	0
4/2/2024 11:25	67001	STHI_T2	4	386	382	0.23	0.14	-0.09	0	0	0	0	0	0	0	0
4/2/2024 11:26	56802	BENV_T2	1	1	0	0.7	0.8	0.1	-1.43	-1.41	0	0	0	0	0	0
4/2/2024 11:26	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 11:27	56802	BENV_T2	1	1	0	0.7	0.8	0.1	-1.43	-1.41	0	0	0	0	0	0
4/2/2024 11:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 11:28	56501	ROCK_T2	2	2	0	0.3	0.15	-0.15	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 11:28	45702	LIND_T2	1	1	0	0.5	0.5	0	-0.37	-0.38	0	0	0	0	0	0
4/2/2024 11:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 11:30	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.67	1	1	0	900	900	0
4/2/2024 11:30	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 11:31	52402	GRPA_T2	1	1	0	2.8	3.6	0.8	-0.92	-0.94	0	0	0	0	0	0
4/2/2024 11:31	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 11:33	56501	ROCK_T2	2	3	1	0.15	0.17	0.02	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 11:34	40602	PIGR_T1	1	1	0	1.9	1.5	-0.4	-0.38	-0.4	1	1	0	600	600	0
4/2/2024 11:35	41901	REED_T1	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
4/2/2024 11:35	41902	REED_T1	0	0	0	0	0	0	1.09	1.14	0	0	0	0	0	0
4/2/2024 11:36	57403	SPAN_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
4/2/2024 11:36	40602	PIGR_T1	1	1	0	1.9	1.5	-0.4	-0.75	-0.8	2	2	0	1200	1200	0
4/2/2024 11:36	57401	SPAN_T1	2	3	1	0.55	2.6	2.05	0	0	0	0	0	0	0	0
4/2/2024 11:37	61103	BERK_T5	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
4/2/2024 11:39	57403	SPAN_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
4/2/2024 11:39	61103	BERK_T5	0	0	0	0	0	0	-0.01	0.05	0	0	0	0	0	0
4/2/2024 11:39	57401	SPAN_T1	2	3	1	0.55	2.6	2.05	0	0	0	0	0	0	0	0
4/2/2024 11:40	61103	BERK_T5	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
4/2/2024 11:42	61103	BERK_T5	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
4/2/2024 11:45	26401	INOR_T1	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
4/2/2024 11:45	26402	INOR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/2/2024 11:48	17002	RIRO_T2	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
4/2/2024 11:51	42802	SELI_T1	0	1	1	0	0.2	0.2	-0.89	-0.89	1	1	0	900	900	0
4/2/2024 11:51	41901	REED_T1	1	7	6	0.2	0.21	0.01	0	0	0	0	0	0	0	0
4/2/2024 11:51	60605	NCOL_T2	4	2	-2	0.43	0	-0.43	0	0	0	0	0	0	0	0
4/2/2024 11:51	41902	REED_T1	0	0	0	0	0	0	1.14	1.08	0	0	0	0	0	0
4/2/2024 11:52	57401	SPAN_T1	3	3	0	2.6	0.5	-2.1	0	0	0	0	0	0	0	0
4/2/2024 11:52	60605	NCOL_T2	4	2	-2	0.43	0	-0.43	0	0	0	0	0	0	0	0
4/2/2024 11:52	56501	ROCK_T2	2	4	2	0.15	0.15	0	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 11:52	57403	SPAN_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
4/2/2024 11:53	64101	REFR_T1	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
4/2/2024 11:53	42802	SELI_T1	0	1	1	0	0.2	0.2	-0.89	-0.83	1	1	0	900	900	0
4/2/2024 11:53	60605	NCOL_T2	4	2	-2	0.43	0	-0.43	0	0	0	0	0	0	0	0
4/2/2024 11:54	60605	NCOL_T2	4	2	-2	0.43	0	-0.43	0	0	0	0	0	0	0	0
4/2/2024 11:54	59101	WALK_T2	0	0	0	0	0	0	1.41	1.48	1	1	0	600	600	0
4/2/2024 11:54	56501	ROCK_T2	2	4	2	0.15	0.15	0	-0.02	-0.02	0	0	0	0	0	0
4/2/2024 11:55	57403	SPAN_T1	0	0	0	0	0	0	0.03	0.06	0	0	0	0	0	0
4/2/2024 11:55	57401	SPAN_T1	3	3	0	2.6	0.5	-2.1	0	0	0	0	0	0	0	0
4/2/2024 11:55	59101	WALK_T2	0	0	0	0	0	0	1.41	1.48	1	0	-1	600	0	-600
4/2/2024 11:55	42701	AUGU_T1	1	1	0	0.2	0.4	0.2	0	0	2	2	0	1800	1800	0
4/2/2024 11:55	46206	DANV_T2	0	0	0	0	0	0	1.99	2.14	1	1	0	1200	1200	0
4/2/2024 11:56	59101	WALK_T2	0	0	0	0	0	0	1.41	1.48	1	0	-1	600	0	-600
4/2/2024 11:56	46206	DANV_T2	0	0	0	0	0	0	1.99	2.14	1	1	0	1200	1200	0
4/2/2024 11:56	60605	NCOL_T2	4	2	-2	0.43	0	-0.43	0	0	0	0	0	0	0	0
4/2/2024 11:56	42701	AUGU_T1	1	1	0	0.2	0.4	0.2	0	0	2	2	0	1800	1800	0
4/2/2024 11:57	46203	DANV_T2	0	0	0	0	0	0	0.24	0.27	0	0	0	0	0	0
4/2/2024 11:57	59101	WALK_T2	0	0	0	0	0	0	1.41	1.48	1	0	-1	600	0	-600
4/2/2024 11:57	46206	DANV_T2	0	0	0	0	0	0	1.99	2.14	1	1	0	1200	1200	0
4/2/2024 11:57	54502	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/2/2024 11:57	54505	ENOL_T2	1	1	0	0.6	0.9	0.3	-1.25	-1.29	1	1	0	600	600	0
4/2/2024 11:58	26001	WDAM_T1	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0
4/2/2024 11:59	56501	ROCK_T2	2	4	2	0.15	0.15	0	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 12:00	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	-1.25	-1.29	1	1	0	600	600	0
4/2/2024 12:00	54502	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/2/2024 12:00	46206	DANV_T2	0	0	0	0	0	0	1.99	2.14	1	1	0	1200	1200	0
4/2/2024 12:01	54202	PENN_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
4/2/2024 12:01	54206	PENN_T2	0	38	38	0	0.14	0.14	0	0	0	0	0	0	0	0
4/2/2024 12:02	28403	HART_T2	0	0	0	0	0	0	-0.97	-0.99	1	1	0	900	900	0
4/2/2024 12:02	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	-1.25	-1.29	1	1	0	600	600	0
4/2/2024 12:02	54502	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/2/2024 12:03	54206	PENN_T2	0	38	38	0	0.14	0.14	0	0	0	0	0	0	0	0
4/2/2024 12:03	10801	CHHI_T1	0	0	0	0	0	0	-0.78	-0.85	1	1	0	900	900	0
4/2/2024 12:03	67402	WAKE_T2	0	0	0	0	0	0	0.42	0.39	1	1	0	600	600	0
4/2/2024 12:03	54202	PENN_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
4/2/2024 12:03	64902	MILL_T2	0	0	0	0	0	0	-0.73	-0.77	1	1	0	900	900	0
4/2/2024 12:05	56501	ROCK_T2	3	4	1	0.13	0.13	0	-0.02	-0.02	0	0	0	0	0	0
4/2/2024 12:07	41902	REED_T1	0	0	0	0	0	0	1.08	1.07	0	0	0	0	0	0
4/2/2024 12:07	41901	REED_T1	5	7	2	0.16	0.23	0.07	0	0	0	0	0	0	0	0
4/2/2024 12:08	60605	NCOL_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/2/2024 12:08	64101	REFR_T1	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
4/2/2024 12:08	56501	ROCK_T2	3	4	1	0.13	0.13	0	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 12:08	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 12:09	60605	NCOL_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/2/2024 12:10	56501	ROCK_T2	3	4	1	0.13	0.13	0	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 12:12	50105	HARR_T3	8	8	0	6.3	6.24	-0.06	0	0	0	0	0	0	0	0
4/2/2024 12:12	60605	NCOL_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/2/2024 12:12	50201	HARR_T3	1	1	0	9.1	9.2	0.1	0	0	0	0	0	0	0	0
4/2/2024 12:12	50103	HARR_T3	1	2	1	0.2	0.4	0.2	-1	-0.97	1	1	0	1200	1200	0
4/2/2024 12:13	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 12:13	45003	LIME_2	1	1	0	2.8	3.4	0.6	0	0	1	1	0	1200	1200	0
4/2/2024 12:16	28403	HART_T2	0	0	0	0	0	0	-0.99	-0.97	1	1	0	900	900	0
4/2/2024 12:17	59301	MCAL_T1	1	1	0	0.1	0.1	0	-1.6	-1.64	1	1	0	600	600	0
4/2/2024 12:19	13302	ORVI_T2	0	0	0	0	0	0	1.46	1.46	0	0	0	0	0	0
4/2/2024 12:20	56501	ROCK_T2	4	0	-4	0.13	0	-0.13	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 12:20	58001	WCAR_T1	1	3	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0
4/2/2024 12:20	58003	WCAR_T1	1	1	0	0.6	0.9	0.3	0	0	1	1	0	600	600	0
4/2/2024 12:20	58401	MORO_T1	0	0	0	0	0	0	-0.99	-1.02	1	1	0	600	600	0
4/2/2024 12:23	58003	WCAR_T1	1	1	0	0.6	0.9	0.3	0	0	1	1	0	600	600	0
4/2/2024 12:23	58001	WCAR_T1	1	3	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0
4/2/2024 12:26	56501	ROCK_T2	4	0	-4	0.13	0	-0.13	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 12:26	46302	ROHR_T1	4	4	0	1.73	1.93	0.2	0.18	0.18	0	0	0	0	0	0
4/2/2024 12:26	60803	BUCK_T1	0	0	0	0	0	0	-1.21	-1.2	1	1	0	600	600	0
4/2/2024 12:26	65903	SMIR_T2	0	0	0	0	0	0	-1.19	-1.2	3	3	0	2100	2100	0
4/2/2024 12:26	57101	SPHI_T2	6	6	0	0.42	0.45	0.03	0	0	0	0	0	0	0	0
4/2/2024 12:26	46301	ROHR_T1	97	41	-56	0.21	0.15	-0.06	0	0	0	0	0	0	0	0
4/2/2024 12:26	57106	SPHI_T2	3	3	0	1.27	1.3	0.03	0	0	0	0	0	0	0	0
4/2/2024 12:26	60101	COCA_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
4/2/2024 12:26	64101	REFR_T1	0	0	0	0	0	0	-0.67	-0.62	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/2/2024 12:26	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
4/2/2024 12:26	57104	SPHI_T2	0	4	4	0	3.07	3.07	-2.08	-2.09	1	1	0	900	900	0
4/2/2024 12:26	54501	ENOL_T2	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
4/2/2024 12:26	67203	TEHI_T1	0	0	0	0	0	0	2.53	2.67	2	2	0	1200	1200	0
4/2/2024 12:26	65901	SAKR_T2	1	1	0	9.4	9.1	-0.3	0	0	0	0	0	0	0	0
4/2/2024 12:26	54502	ENOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/2/2024 12:27	46203	DANV_T2	0	0	0	0	0	0	0.25	0.21	0	0	0	0	0	0
4/2/2024 12:34	17002	RIRO_T2	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
4/2/2024 12:37	57403	SPAN_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
4/2/2024 12:37	57401	SPAN_T1	2	3	1	0.25	0.97	0.72	0	0	0	0	0	0	0	0
4/2/2024 12:38	60605	NCOL_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/2/2024 12:39	60605	NCOL_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/2/2024 12:39	57403	SPAN_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
4/2/2024 12:39	57401	SPAN_T1	2	3	1	0.25	0.97	0.72	0	0	0	0	0	0	0	0
4/2/2024 12:40	60605	NCOL_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/2/2024 12:41	56501	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/2/2024 12:41	40101	HUNT_T2	1	9	8	0.3	0.2	-0.1	-0.28	-0.22	0	0	0	0	0	0
4/2/2024 12:41	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
4/2/2024 12:41	45003	LIME_2	1	1	0	3.4	3.1	-0.3	0	0	1	1	0	1200	1200	0
4/2/2024 12:41	60605	NCOL_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/2/2024 12:41	65702	RVIL_T2	0	0	0	0	0	0	-0.58	-0.61	0	0	0	0	0	0
4/2/2024 12:42	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 12:42	42902	MIDD_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/2/2024 12:42	42903	MIDD_T2	2	0	-2	1.6	0	-1.6	0.22	0.5	1	1	0	1200	1200	0
4/2/2024 12:42	45501	DERR_T2	0	0	0	0	0	0	0.54	0.45	2	2	0	1800	1800	0
4/2/2024 12:43	60605	NCOL_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/2/2024 12:44	46301	ROHR_T1	41	73	32	0.15	0.18	0.03	0.24	0.21	0	0	0	0	0	0
4/2/2024 12:44	40502	CRES_T2	4	9	5	0.18	0.19	0.01	-0.14	-0.21	0	0	0	0	0	0
4/2/2024 12:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 12:44	46302	ROHR_T1	4	4	0	1.6	2.6	1	0	0	0	0	0	0	0	0
4/2/2024 12:49	42802	SELI_T1	0	0	0	0	0	0	-0.83	-0.82	1	1	0	900	900	0
4/2/2024 12:50	42802	SELI_T1	0	0	0	0	0	0	-0.83	-0.82	1	1	0	900	900	0
4/2/2024 12:52	59101	WALK_T2	0	0	0	0	0	0	1.71	1.84	0	0	0	0	0	0
4/2/2024 12:53	59101	WALK_T2	0	0	0	0	0	0	3.67	2.89	0	0	0	0	0	0
4/2/2024 12:54	59101	WALK_T2	0	0	0	0	0	0	1.84	1.45	0	0	0	0	0	0
4/2/2024 13:13	46203	DANV_T2	78	91	13	0.36	0.37	0.01	0	0	0	0	0	0	0	0
4/2/2024 13:13	46206	DANV_T2	0	0	0	0	0	0	2.1	2.09	1	1	0	1200	1200	0
4/2/2024 13:14	46203	DANV_T2	78	91	13	0.36	0.37	0.01	0	0	0	0	0	0	0	0
4/2/2024 13:14	46206	DANV_T2	0	0	0	0	0	0	2.1	2.09	1	1	0	1200	1200	0
4/2/2024 13:16	46203	DANV_T2	84	137	53	0.37	0.51	0.14	0	0	0	0	0	0	0	0
4/2/2024 13:16	46206	DANV_T2	0	0	0	0	0	0	2.1	2.09	1	1	0	1200	1200	0
4/2/2024 13:33	54206	PENN_T2	23	37	14	0.1	0.19	0.09	0	0	0	0	0	0	0	0
4/2/2024 13:33	54202	PENN_T2	1	18	17	0.1	0.13	0.03	0.62	0.62	0	0	0	0	0	0
4/2/2024 13:36	14801	TREI_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
4/2/2024 13:36	57403	SPAN_T1	0	1	1	0	0.1	0.1	0.06	0.05	0	0	0	0	0	0
4/2/2024 13:36	57401	SPAN_T1	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
4/2/2024 13:37	67002	STHI_T2	41	96	55	0.13	0.15	0.02	0.63	0.6	0	0	0	0	0	0
4/2/2024 13:37	41901	REED_T1	4	8	4	0.15	0.18	0.03	0	0	0	0	0	0	0	0
4/2/2024 13:37	41902	REED_T1	0	0	0	0	0	0	1.07	1.08	0	0	0	0	0	0
4/2/2024 13:37	59302	MCAL_T1	0	0	0	0	0	0	-0.61	-0.3	1	1	0	600	600	0
4/2/2024 13:37	67001	STHI_T2	379	525	146	0.16	0.19	0.03	0	0	0	0	0	0	0	0
4/2/2024 13:37	64101	REFR_T1	0	0	0	0	0	0	-0.67	-0.7	0	0	0	0	0	0
4/2/2024 13:37	54505	ENOL_T2	1	1	0	0.8	0.8	0	-1.24	-1.28	1	1	0	600	600	0
4/2/2024 13:37	54502	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/2/2024 13:37	59301	MCAL_T1	2	2	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
4/2/2024 13:38	46206	DANV_T2	0	0	0	0	0	0	2.12	2.11	1	1	0	1200	1200	0
4/2/2024 13:38	46203	DANV_T2	70	187	117	0.37	0.59	0.22	0	0	0	0	0	0	0	0
4/2/2024 13:38	26401	INOR_T1	0	0	0	0	0	0	0.91	0.85	0	0	0	0	0	0
4/2/2024 13:38	43801	SWIL_T1	1	2	1	5.1	2.85	-2.25	0	0	0	0	0	0	0	0
4/2/2024 13:38	43802	SWIL_T1	0	0	0	0	0	0	-0.13	-0.09	1	1	0	600	600	0
4/2/2024 13:38	26001	WDAM_T1	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
4/2/2024 13:39	56501	ROCK_T2	2	4	2	0.15	0.15	0	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 13:40	61102	BERK_T5	0	1	1	0	0.1	0.1	0.96	0.97	1	1	0	300	300	0
4/2/2024 13:44	56501	ROCK_T2	2	4	2	0.15	0.15	0	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 13:44	59301	MCAL_T1	2	2	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
4/2/2024 13:44	59302	MCAL_T1	0	0	0	0	0	0	-0.3	-0.27	1	1	0	600	600	0
4/2/2024 13:51	41902	REED_T1	0	0	0	0	0	0	1.08	1.08	0	0	0	0	0	0
4/2/2024 13:51	41901	REED_T1	8	2	-6	0.18	0.3	0.12	0	0	0	0	0	0	0	0
4/2/2024 13:52	41902	REED_T1	0	0	0	0	0	0	1.08	1.08	0	0	0	0	0	0
4/2/2024 13:52	41901	REED_T1	8	2	-6	0.18	0.3	0.12	0	0	0	0	0	0	0	0
4/2/2024 13:55	42701	AUGU_T1	0	1	1	0	0.2	0.2	0	0	2	2	0	1800	1800	0
4/2/2024 13:55	56501	ROCK_T2	2	5	3	0.15	0.24	0.09	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 13:56	42701	AUGU_T1	0	1	1	0	0.2	0.2	0	0	2	2	0	1800	1800	0
4/2/2024 14:00	56501	ROCK_T2	4	8	4	0.15	0.29	0.14	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 14:02	59301	MCAL_T1	0	2	2	0	0.75	0.75	-1.58	-1.59	1	1	0	600	600	0
4/2/2024 14:03	46801	HEPB_T2	2	2	0	0.2	0.35	0.15	0.62	0.63	0	0	0	0	0	0
4/2/2024 14:08	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
4/2/2024 14:08	56501	ROCK_T2	4	8	4	0.15	0.29	0.14	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 14:08	59101	WALK_T2	0	0	0	0	0	0	2.48	2.38	0	0	0	0	0	0
4/2/2024 14:09	44301	BEAV_T2	1	0	-1	1.1	0	-1.1	-0.22	0.01	2	2	0	1500	1500	0
4/2/2024 14:09	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
4/2/2024 14:10	44301	BEAV_T2	1	0	-1	1.1	0	-1.1	-0.22	0.01	2	1	-1	1500	600	-900
4/2/2024 14:10	56501	ROCK_T2	4	8	4	0.15	0.29	0.14	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 14:11	56501	ROCK_T2	4	8	4	0.15	0.29	0.14	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 14:11	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	2	2	0	1800	1800	0
4/2/2024 14:12	60101	COCA_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
4/2/2024 14:12	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	2	2	0	1800	1800	0
4/2/2024 14:13	52401	GRPA_T2	1	1	0	0.7	1	0.3	-0.55	-0.55	0	0	0	0	0	0
4/2/2024 14:13	60101	COCA_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
4/2/2024 14:13	52402	GRPA_T2	5	5	0	1.06	1.24	0.18	0	0	0	0	0	0	0	0
4/2/2024 14:14	52402	GRPA_T2	5	5	0	1.06	1.24	0.18	-1.01	-1.01	0	0	0	0	0	0
4/2/2024 14:14	46203	DANV_T2	187	204	17	0.59	0.7	0.11	-1.05	-1.04	0	0	0	0	0	0
4/2/2024 14:14	52401	GRPA_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
4/2/2024 14:15	52402	GRPA_T2	5	5	0	0.96	1.44	0.48	0	0	0	0	0	0	0	0
4/2/2024 14:15	52401	GRPA_T2	1	1	0	0.8	1	0.2	-0.55	-0.55	0	0	0	0	0	0
4/2/2024 14:15	60101	COCA_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
4/2/2024 14:15	40101	HUNT_T2	1	1	0	0.3	0	-0.3	-0.36	-0.38	0	0	0	0	0	0
4/2/2024 14:15	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
4/2/2024 14:15	52403	GRPA_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
4/2/2024 14:16	54502	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/2/2024 14:16	54501	ENOL_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
4/2/2024 14:16	52403	GRPA_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
4/2/2024 14:16	52401	GRPA_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
4/2/2024 14:16	40101	HUNT_T2	1	1	0	0.3	0	-0.3	-0.72	-0.75	0	0	0	0	0	0
4/2/2024 14:16	64301	LINC_T1	0	0	0	0	0	0	-0.01	-0.05	1	1	0	600	600	0
4/2/2024 14:16	52402	GRPA_T2	5	5	0	0.96	1.44	0.48	-1.01	-1.01	0	0	0	0	0	0
4/2/2024 14:16	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/2/2024 14:16	56501	ROCK_T2	4	8	4	0.28	0.29	0.01	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 14:17	40101	HUNT_T2	1	1	0	0.3	0	-0.3	-0.36	-0.38	0	0	0	0	0	0
4/2/2024 14:18	40101	HUNT_T2	1	1	0	0.3	0	-0.3	-0.72	-0.75	0	0	0	0	0	0
4/2/2024 14:20	26001	WDAM_T1	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
4/2/2024 14:20	26002	WDAM_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/2/2024 14:20	52501	PROG_T1	0	0	0	0	0	0	0.44	0.41	1	1	0	300	300	0
4/2/2024 14:21	59302	MCAL_T1	0	0	0	0	0	0	-0.32	-0.4	1	1	0	600	600	0
4/2/2024 14:21	59301	MCAL_T1	2	2	0	0.25	0.8	0.55	0	0	0	0	0	0	0	0
4/2/2024 14:21	52502	PROG_T2	0	0	0	0	0	0	-0.61	-0.58	1	1	0	900	900	0
4/2/2024 14:23	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:23	40502	CRES_T2	0	13	13	0	0.27	0.27	-0.6	-0.95	0	0	0	0	0	0
4/2/2024 14:23	42701	AUGU_T1	1	1	0	0.2	0.4	0.2	0	0	4	4	0	3600	3600	0
4/2/2024 14:24	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:24	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:24	67201	TEHI_T1	99	9	-90	0.35	0.17	-0.18	0	0	0	0	0	0	0	0
4/2/2024 14:24	20403	ASHF_T2	0	0	0	0	0	0	0.43	0.39	0	0	0	0	0	0
4/2/2024 14:24	46004	BERW_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
4/2/2024 14:24	40502	CRES_T2	0	13	13	0	0.27	0.27	-0.72	-1.14	0	0	0	0	0	0
4/2/2024 14:24	67203	TEHI_T1	0	0	0	0	0	0	2.11	2.08	2	2	0	1200	1200	0
4/2/2024 14:24	56501	ROCK_T2	4	8	4	0.28	0.29	0.01	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 14:24	59101	WALK_T2	0	0	0	0	0	0	4.76	3.92	0	0	0	0	0	0
4/2/2024 14:25	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:25	44301	BEAV_T2	0	0	0	0	0	0	0.01	-0.1	1	1	0	600	600	0
4/2/2024 14:25	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:25	40502	CRES_T2	0	13	13	0	0.27	0.27	-0.24	-0.38	0	0	0	0	0	0
4/2/2024 14:26	40502	CRES_T2	0	13	13	0	0.27	0.27	-0.24	-0.38	0	0	0	0	0	0
4/2/2024 14:26	56501	ROCK_T2	4	8	4	0.28	0.29	0.01	-0.02	-0.02	0	0	0	0	0	0
4/2/2024 14:26	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:26	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:26	44301	BEAV_T2	0	0	0	0	0	0	0.01	-0.1	1	1	0	600	600	0
4/2/2024 14:27	52402	GRPA_T2	5	5	0	0.96	1.44	0.48	-1.01	-0.95	0	0	0	0	0	0
4/2/2024 14:27	52401	GRPA_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
4/2/2024 14:28	40502	CRES_T2	0	13	13	0	0.27	0.27	-0.24	-0.38	0	0	0	0	0	0
4/2/2024 14:28	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:29	52402	GRPA_T2	5	5	0	0.96	1.44	0.48	0	0	0	0	0	0	0	0
4/2/2024 14:29	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:29	52401	GRPA_T2	1	1	0	0.8	1	0.2	-0.55	-0.54	0	0	0	0	0	0
4/2/2024 14:29	46203	DANV_T2	204	111	-93	0.7	0.48	-0.22	-1.04	-1.05	0	0	0	0	0	0
4/2/2024 14:30	52401	GRPA_T2	1	1	0	1	0.7	-0.3	-0.55	-0.54	0	0	0	0	0	0
4/2/2024 14:30	52402	GRPA_T2	5	5	0	1.24	1.46	0.22	-1.01	-0.95	0	0	0	0	0	0
4/2/2024 14:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:31	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/2/2024 14:31	54502	ENOL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/2/2024 14:31	52401	GRPA_T2	1	1	0	1	0.7	-0.3	-0.55	-0.54	0	0	0	0	0	0
4/2/2024 14:31	54501	ENOL_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
4/2/2024 14:31	52402	GRPA_T2	5	5	0	1.24	1.46	0.22	0	0	0	0	0	0	0	0
4/2/2024 14:31	59301	MCAL_T1	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
4/2/2024 14:31	59302	MCAL_T1	0	0	0	0	0	0	-0.4	-0.41	1	1	0	600	600	0
4/2/2024 14:32	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.75	1	1	0	900	900	0
4/2/2024 14:32	63602	LETO_T1	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
4/2/2024 14:32	56501	ROCK_T2	8	3	-5	0.29	0.37	0.08	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 14:33	52403	GRPA_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
4/2/2024 14:33	42903	MIDD_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/2/2024 14:33	52401	GRPA_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
4/2/2024 14:33	42902	MIDD_T2	1	2	1	0.2	0.1	-0.1	-0.31	-0.3	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/2/2024 14:33	52402	GRPA_T2	5	5	0	1.24	1.46	0.22	0	0	0	0	0	0	0	0
4/2/2024 14:34	59402	RFLD_T2	0	0	0	0	0	0	-1.67	-1.73	2	2	0	900	900	0
4/2/2024 14:35	59402	RFLD_T2	0	0	0	0	0	0	-0.84	-0.86	1	1	0	450	450	0
4/2/2024 14:35	44601	SALE_T2	0	0	0	0	0	0	0.57	0.74	1	1	0	600	600	0
4/2/2024 14:36	59402	RFLD_T2	0	0	0	0	0	0	-0.84	-0.86	1	1	0	450	450	0
4/2/2024 14:36	52501	PROG_T1	0	0	0	0	0	0	0.41	0.41	1	1	0	300	300	0
4/2/2024 14:37	56501	ROCK_T2	8	3	-5	0.29	0.37	0.08	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 14:37	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.75	1	1	0	900	900	0
4/2/2024 14:38	43104	SMIL_T2	0	0	0	0	0	0	-0.77	-0.78	1	1	0	300	300	0
4/2/2024 14:38	26002	WDAM_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
4/2/2024 14:38	43102	SMIL_T2	6	4	-2	0.45	0.55	0.1	0	0	0	0	0	0	0	0
4/2/2024 14:38	43105	SMIL_T2	9	12	3	0.19	0.17	-0.02	0	0	0	0	0	0	0	0
4/2/2024 14:38	26001	WDAM_T1	0	0	0	0	0	0	-0.37	-0.34	0	0	0	0	0	0
4/2/2024 14:38	67401	WAKE_T2	0	0	0	0	0	0	-1.12	-1.09	0	0	0	0	0	0
4/2/2024 14:38	43103	SMIL_T2	8	5	-3	0.39	0.3	-0.09	0	0	0	0	0	0	0	0
4/2/2024 14:38	45602	WOOL_T1	0	1	1	0	0.3	0.3	0.53	0.48	0	0	0	0	0	0
4/2/2024 14:38	41901	REED_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
4/2/2024 14:38	41902	REED_T1	0	0	0	0	0	0	1.12	1.23	0	0	0	0	0	0
4/2/2024 14:39	67001	STHI_T2	543	555	12	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
4/2/2024 14:39	41901	REED_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
4/2/2024 14:39	67002	STHI_T2	97	101	4	0.15	0.15	0	0.59	0.58	0	0	0	0	0	0
4/2/2024 14:39	41902	REED_T1	0	0	0	0	0	0	1.12	1.23	0	0	0	0	0	0
4/2/2024 14:40	67001	STHI_T2	543	555	12	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
4/2/2024 14:40	56501	ROCK_T2	8	3	-5	0.29	0.37	0.08	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 14:40	67002	STHI_T2	97	101	4	0.15	0.15	0	0.59	0.58	0	0	0	0	0	0
4/2/2024 14:40	59101	WALK_T2	0	0	0	0	0	0	3.92	3.19	0	0	0	0	0	0
4/2/2024 14:40	20403	ASHF_T2	0	0	0	0	0	0	0.39	0.5	0	0	0	0	0	0
4/2/2024 14:41	45602	WOOL_T1	0	1	1	0	0.3	0.3	0.53	0.48	0	0	0	0	0	0
4/2/2024 14:42	56501	ROCK_T2	8	3	-5	0.29	0.37	0.08	-0.02	-0.02	0	0	0	0	0	0
4/2/2024 14:42	52402	GRPA_T2	5	5	0	1.24	1.46	0.22	0	0	0	0	0	0	0	0
4/2/2024 14:42	52403	GRPA_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
4/2/2024 14:42	52401	GRPA_T2	1	1	0	1	0.7	-0.3	-0.54	-0.56	0	0	0	0	0	0
4/2/2024 14:43	52402	GRPA_T2	5	5	0	1.24	1.46	0.22	-0.95	-1.06	0	0	0	0	0	0
4/2/2024 14:43	52401	GRPA_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
4/2/2024 14:43	40902	JESH_T1	0	0	0	0	0	0	-0.78	-0.75	0	0	0	0	0	0
4/2/2024 14:43	45602	WOOL_T1	0	1	1	0	0.3	0.3	0.53	0.48	0	0	0	0	0	0
4/2/2024 14:44	52402	GRPA_T2	5	5	0	1.24	1.46	0.22	0	0	0	0	0	0	0	0
4/2/2024 14:44	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:44	52401	GRPA_T2	1	1	0	1	0.7	-0.3	-0.54	-0.56	0	0	0	0	0	0
4/2/2024 14:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:45	46203	DANV_T2	47	0	-47	0.3	0	-0.3	-1.05	0.24	0	0	0	0	0	0
4/2/2024 14:46	52402	GRPA_T2	5	5	0	1.4	1.4	0	-0.95	-1.06	0	0	0	0	0	0
4/2/2024 14:46	52401	GRPA_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/2/2024 14:47	45601	WOOL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:47	45602	WOOL_T1	0	1	1	0	0.3	0.3	0.53	0.48	0	0	0	0	0	0
4/2/2024 14:48	40101	HUNT_T2	0	15	15	0	1	1	-0.37	-0.33	0	0	0	0	0	0
4/2/2024 14:48	63602	LETO_T1	0	0	0	0	0	0	-0.24	-0.33	0	0	0	0	0	0
4/2/2024 14:49	41901	REED_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/2/2024 14:49	40101	HUNT_T2	0	15	15	0	1	1	-0.37	-0.33	0	0	0	0	0	0
4/2/2024 14:49	41902	REED_T1	0	0	0	0	0	0	1.12	1.23	0	0	0	0	0	0
4/2/2024 14:50	44601	SALE_T2	0	0	0	0	0	0	0.74	0.66	1	1	0	600	600	0
4/2/2024 14:50	41901	REED_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/2/2024 14:50	41902	REED_T1	0	0	0	0	0	0	1.12	1.23	0	0	0	0	0	0
4/2/2024 14:50	60101	COCA_T1	0	0	0	0	0	0	0.37	0.32	0	0	0	0	0	0
4/2/2024 14:52	45602	WOOL_T1	0	1	1	0	0.3	0.3	0.53	0.48	0	0	0	0	0	0
4/2/2024 14:52	45601	WOOL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:53	56501	ROCK_T2	3	0	-3	0.37	0.3	-0.07	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 14:53	42701	AUGU_T1	1	1	0	0.4	0.2	-0.2	0	0	2	2	0	1800	1800	0
4/2/2024 14:53	45602	WOOL_T1	0	1	1	0	0.3	0.3	0.48	0.44	0	0	0	0	0	0
4/2/2024 14:53	45601	WOOL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:54	67002	STHI_T2	83	77	-6	0.14	0.15	0.01	0.58	0.59	0	0	0	0	0	0
4/2/2024 14:54	42701	AUGU_T1	1	1	0	0.4	0.2	-0.2	0	0	2	2	0	1800	1800	0
4/2/2024 14:54	67001	STHI_T2	519	508	-11	0.2	0.21	0.01	0	0	0	0	0	0	0	0
4/2/2024 14:56	56803	BENV_T1	6	6	0	0.63	0.94	0.31	0	0	0	0	0	0	0	0
4/2/2024 14:56	67002	STHI_T2	83	77	-6	0.14	0.15	0.01	0.58	0.59	0	0	0	0	0	0
4/2/2024 14:56	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:56	56801	BENV_T1	16	17	1	0.61	0.74	0.13	-0.77	-0.75	1	1	0	600	600	0
4/2/2024 14:56	67001	STHI_T2	519	508	-11	0.2	0.21	0.01	0	0	0	0	0	0	0	0
4/2/2024 14:57	56803	BENV_T1	6	6	0	0.63	0.94	0.31	0	0	0	0	0	0	0	0
4/2/2024 14:57	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:57	45602	WOOL_T1	0	1	1	0	0.3	0.3	0.48	0.44	0	0	0	0	0	0
4/2/2024 14:57	45601	WOOL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:57	60101	COCA_T1	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
4/2/2024 14:57	56801	BENV_T1	16	17	1	0.61	0.74	0.13	-0.77	-0.75	1	1	0	600	600	0
4/2/2024 14:58	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:58	56802	BENV_T2	213	162	-51	0.31	0.23	-0.08	-1.31	-1.33	0	0	0	0	0	0
4/2/2024 14:58	56501	ROCK_T2	3	3	0	0.37	0.3	-0.07	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 14:59	45601	WOOL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 14:59	53903	HALI_T2	2	2	0	1.25	1.2	-0.05	0	0	0	0	0	0	0	0
4/2/2024 14:59	56803	BENV_T1	6	6	0	0.63	0.94	0.31	0	0	0	0	0	0	0	0
4/2/2024 14:59	45602	WOOL_T1	0	1	1	0	0.3	0.3	0.48	0.44	0	0	0	0	0	0
4/2/2024 14:59	53902	HALI_T2	1	1	0	5.2	4.5	-0.7	0	0	0	0	0	0	0	0
4/2/2024 14:59	53901	HALI_T2	1	1	0	0.2	0.5	0.3	-1.06	-1.06	0	0	0	0	0	0
4/2/2024 14:59	56801	BENV_T1	16	17	1	0.61	0.74	0.13	-0.77	-0.75	1	1	0	600	600	0
4/2/2024 15:00	53903	HALI_T2	2	2	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
4/2/2024 15:00	60101	COCA_T1	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
4/2/2024 15:00	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 15:00	53902	HALI_T2	1	1	0	4.5	4.6	0.1	0	0	0	0	0	0	0	0
4/2/2024 15:00	56802	BENV_T2	161	111	-50	0.23	0.2	-0.03	-2.62	-2.65	0	0	0	0	0	0
4/2/2024 15:00	53901	HALI_T2	1	1	0	0.5	0.5	0	-1.06	-1.06	0	0	0	0	0	0
4/2/2024 15:01	53903	HALI_T2	2	2	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
4/2/2024 15:01	53902	HALI_T2	1	1	0	4.5	4.6	0.1	0	0	0	0	0	0	0	0
4/2/2024 15:01	53901	HALI_T2	1	1	0	0.5	0.5	0	-2.12	-2.12	0	0	0	0	0	0
4/2/2024 15:02	53903	HALI_T2	2	2	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
4/2/2024 15:02	53902	HALI_T2	1	1	0	4.5	4.6	0.1	0	0	0	0	0	0	0	0
4/2/2024 15:02	53901	HALI_T2	1	1	0	0.5	0.5	0	-1.06	-1.06	0	0	0	0	0	0
4/2/2024 15:03	40902	JESH_T1	0	0	0	0	0	0	-0.75	-0.78	0	0	0	0	0	0
4/2/2024 15:04	67204	TEHI_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
4/2/2024 15:06	26002	WDAM_T1	2	2	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/2/2024 15:06	26001	WDAM_T1	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
4/2/2024 15:07	42201	SHEN_T2	0	0	0	0	0	0	-0.08	-0.11	1	1	0	600	600	0
4/2/2024 15:09	56501	ROCK_T2	3	4	1	0.3	0.18	-0.12	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 15:10	67204	TEHI_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
4/2/2024 15:14	56501	ROCK_T2	3	4	1	0.3	0.18	-0.12	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 15:16	40101	HUNT_T2	15	0	-15	0.31	0	-0.31	-0.68	-0.79	0	0	0	0	0	0
4/2/2024 15:16	21901	HUMB_T1	0	0	0	0	0	0	-0.85	-0.83	0	0	0	0	0	0
4/2/2024 15:18	40101	HUNT_T2	15	0	-15	0.31	0	-0.31	-0.34	-0.4	0	0	0	0	0	0
4/2/2024 15:20	41901	REED_T1	1	8	7	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/2/2024 15:20	41902	REED_T1	0	0	0	0	0	0	1.19	1.14	0	0	0	0	0	0
4/2/2024 15:21	41901	REED_T1	1	8	7	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/2/2024 15:21	41902	REED_T1	0	0	0	0	0	0	1.19	1.14	0	0	0	0	0	0
4/2/2024 15:22	46004	BERW_T2	0	1	1	0	0	0	-0.23	-0.17	0	0	0	0	0	0
4/2/2024 15:23	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
4/2/2024 15:23	14801	TREI_T2	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
4/2/2024 15:25	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 15:25	40502	CRES_T2	7	6	-1	0.16	0.17	0.01	-0.22	-0.23	0	0	0	0	0	0
4/2/2024 15:26	40502	CRES_T2	7	6	-1	0.16	0.17	0.01	-1.31	-1.37	0	0	0	0	0	0
4/2/2024 15:26	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 15:27	40502	CRES_T2	7	6	-1	0.16	0.17	0.01	-1.09	-1.14	0	0	0	0	0	0
4/2/2024 15:27	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 15:28	40502	CRES_T2	7	6	-1	0.16	0.17	0.01	-0.66	-0.69	0	0	0	0	0	0
4/2/2024 15:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 15:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 15:29	56501	ROCK_T2	2	4	2	0.1	0.2	0.1	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 15:29	40502	CRES_T2	7	6	-1	0.16	0.17	0.01	-0.44	-0.46	0	0	0	0	0	0
4/2/2024 15:31	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 15:31	40502	CRES_T2	5	6	1	0.1	0.17	0.07	-0.22	-0.23	0	0	0	0	0	0
4/2/2024 15:35	56501	ROCK_T2	4	7	3	0.18	0.2	0.02	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 15:36	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 15:36	41902	REED_T1	0	0	0	0	0	0	1.14	1.16	0	0	0	0	0	0
4/2/2024 15:36	41901	REED_T1	3	9	6	0.2	0.22	0.02	0	0	0	0	0	0	0	0
4/2/2024 15:37	41901	REED_T1	3	9	6	0.2	0.22	0.02	0	0	0	0	0	0	0	0
4/2/2024 15:37	41902	REED_T1	0	0	0	0	0	0	1.14	1.16	0	0	0	0	0	0
4/2/2024 15:39	20403	ASHF_T2	0	0	0	0	0	0	0.23	0.12	0	0	0	0	0	0
4/2/2024 15:40	56802	BENV_T2	109	162	53	0.2	0.25	0.05	-1.29	-1.29	0	0	0	0	0	0
4/2/2024 15:41	59101	WALK_T2	0	0	0	0	0	0	3.94	4.72	0	0	0	0	0	0
4/2/2024 15:47	63401	HONY_T1	0	0	0	0	0	0	0.54	0.59	0	0	0	0	0	0
4/2/2024 15:48	64801	MONE_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/2/2024 15:48	64802	MONE_T2	0	0	0	0	0	0	-0.05	-0.02	0	0	0	0	0	0
4/2/2024 15:55	44301	BEAV_T2	0	0	0	0	0	0	-0.33	-0.3	1	1	0	600	600	0
4/2/2024 15:56	56802	BENV_T2	154	79	-75	0.26	0.19	-0.07	-1.29	-1.3	0	0	0	0	0	0
4/2/2024 16:00	56501	ROCK_T2	5	5	0	0.2	0.24	0.04	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 16:04	17002	RIRO_T2	9	6	-3	0.13	0.15	0.02	0.5	0.46	0	0	0	0	0	0
4/2/2024 16:06	56501	ROCK_T2	5	5	0	0.2	0.24	0.04	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 16:09	58401	MORO_T1	0	0	0	0	0	0	-1.04	-1.04	1	1	0	600	600	0
4/2/2024 16:13	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 16:21	67502	WEWI_T2	0	0	0	0	0	0	-1.36	-1.34	1	1	0	900	900	0
4/2/2024 16:22	67502	WEWI_T2	0	0	0	0	0	0	-1.36	-1.34	1	1	0	900	900	0
4/2/2024 16:22	56501	ROCK_T2	4	3	-1	0.2	0.23	0.03	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 16:27	56501	ROCK_T2	4	3	-1	0.2	0.23	0.03	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 16:36	14403	SSLA_T1	0	0	0	0	0	0	0.7	0.75	0	0	0	0	0	0
4/2/2024 16:36	14404	SSLA_T1	1	1	0	4.3	4.2	-0.1	0	0	0	0	0	0	0	0
4/2/2024 16:37	14403	SSLA_T1	0	0	0	0	0	0	0.7	0.75	0	0	0	0	0	0
4/2/2024 16:37	14404	SSLA_T1	1	1	0	4.3	4.2	-0.1	0	0	0	0	0	0	0	0
4/2/2024 16:38	56501	ROCK_T2	3	2	-1	0.23	0.2	-0.03	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 16:43	56501	ROCK_T2	3	2	-1	0.23	0.2	-0.03	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 19:40	59402	RFLD_T2	0	0	0	0	0	0	-0.82	-0.83	1	1	0	450	450	0
4/2/2024 20:35	53902	HALI_T2	1	1	0	5.2	5.5	0.3	0	0	0	0	0	0	0	0
4/2/2024 20:35	53901	HALI_T2	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
4/2/2024 20:35	53903	HALI_T2	2	2	0	1.3	1.3	0	-0.13	-0.13	0	0	0	0	0	0
4/2/2024 20:36	17002	RIRO_T2	21	31	10	0.13	0.15	0.02	0.43	0.46	0	0	0	0	0	0
4/2/2024 20:36	55002	NEWP_T1	4	5	1	1	1.04	0.04	-0.21	-0.23	0	0	0	0	0	0
4/2/2024 20:36	55001	NEWP_T1	22	14	-8	0.22	0.18	-0.04	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/2/2024 20:36	65001	NEFF_T2	3	155	152	0.1	0.16	0.06	-0.86	-0.89	1	1	0	1200	1200	0
4/2/2024 20:36	45402	WBLO_T2	10	26	16	0.21	0.2	-0.01	-0.79	-0.8	0	0	0	0	0	0
4/2/2024 20:36	57303	MOAL_T2	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
4/2/2024 20:36	57304	MOAL_T2	1	1	0	0.1	0.3	0.2	-0.6	-0.79	0	0	0	0	0	0
4/2/2024 20:37	41902	REED_T1	0	1	1	0	0	0	1.35	1.11	0	0	0	0	0	0
4/2/2024 20:37	41901	REED_T1	9	9	0	0.5	0.41	-0.09	0	0	0	0	0	0	0	0
4/2/2024 20:39	15704	TANN_T1	0	0	0	0	0	0	-1.34	-1.19	0	0	0	0	0	0
4/2/2024 20:39	15701	TANN_T1	2	3	1	2.25	1.73	-0.52	0	0	0	0	0	0	0	0
4/2/2024 20:39	64101	REFR_T1	0	0	0	0	0	0	-1.12	-1.14	0	0	0	0	0	0
4/2/2024 20:39	57401	SPAN_T1	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
4/2/2024 20:39	57403	SPAN_T1	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
4/2/2024 20:42	40502	CRES_T2	9	14	5	0.14	0.2	0.06	-0.32	-0.35	0	0	0	0	0	0
4/2/2024 20:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 20:44	40502	CRES_T2	9	14	5	0.14	0.2	0.06	-0.16	-0.18	0	0	0	0	0	0
4/2/2024 20:44	44301	BEAV_T2	0	0	0	0	0	0	-0.11	-0.09	1	1	0	600	600	0
4/2/2024 20:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 20:44	44302	BEAV_T2	1	18	17	0.1	0.17	0.07	0	0	0	0	0	0	0	0
4/2/2024 20:47	67002	STHI_T2	180	305	125	0.19	0.17	-0.02	1.24	1.18	0	0	0	0	0	0
4/2/2024 20:47	67001	STHI_T2	622	640	18	0.3	0.34	0.04	0	0	0	0	0	0	0	0
4/2/2024 20:48	51004	NHAR_T1	13	14	1	0.96	0.87	-0.09	-0.43	-0.4	0	0	0	0	0	0
4/2/2024 20:48	51003	NHAR_T1	40	63	23	0.17	0.18	0.01	0	0	0	0	0	0	0	0
4/2/2024 20:48	51002	NHAR_T1	1	8	7	1.8	0.33	-1.47	0	0	0	0	0	0	0	0
4/2/2024 20:49	67001	STHI_T2	622	640	18	0.3	0.34	0.04	0	0	0	0	0	0	0	0
4/2/2024 20:49	67002	STHI_T2	180	305	125	0.19	0.17	-0.02	0.62	0.59	0	0	0	0	0	0
4/2/2024 20:49	53601	DALM_T2	1	1	0	0.8	1	0.2	-0.13	-0.18	0	0	0	0	0	0
4/2/2024 20:51	46203	DANV_T2	139	179	40	0.54	0.58	0.04	-1.01	-0.99	0	0	0	0	0	0
4/2/2024 20:51	59301	MCAL_T1	2	2	0	0.95	1.1	0.15	-1.3	-1.33	0	0	0	0	0	0
4/2/2024 20:51	56802	BENV_T2	239	322	83	0.37	0.61	0.24	-1.39	-1.39	0	0	0	0	0	0
4/2/2024 20:51	59302	MCAL_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/2/2024 20:51	24902	WHHA_T1	18	2	-16	0.65	1.1	0.45	0	0	0	0	0	0	0	0
4/2/2024 20:51	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.77	1	1	0	900	900	0
4/2/2024 20:52	64203	KINZ_T1	2	0	-2	0.1	0	-0.1	0.03	0.08	0	0	0	0	0	0
4/2/2024 20:52	64204	KINZ_T1	28	11	-17	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
4/2/2024 20:52	53903	HALI_T2	2	2	0	1.3	1.4	0.1	-0.13	-0.14	0	0	0	0	0	0
4/2/2024 20:52	67002	STHI_T2	180	305	125	0.19	0.17	-0.02	0.62	0.59	0	0	0	0	0	0
4/2/2024 20:52	67001	STHI_T2	622	640	18	0.3	0.34	0.04	0	0	0	0	0	0	0	0
4/2/2024 20:52	53901	HALI_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/2/2024 20:52	64201	KINZ_T1	7	5	-2	0.44	0.44	0	0	0	0	0	0	0	0	0
4/2/2024 20:52	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
4/2/2024 20:52	64202	KINZ_T1	9	5	-4	0.21	0.16	-0.05	0	0	0	0	0	0	0	0
4/2/2024 20:52	25402	LAHA_T2	0	0	0	0	0	0	-0.81	-0.8	0	0	0	0	0	0
4/2/2024 20:53	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 20:53	20402	ASHF_T2	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
4/2/2024 20:53	53501	EVIL_T2	2	2	0	0.3	0.2	-0.1	-0.92	-0.81	1	1	0	600	600	0
4/2/2024 20:53	20403	ASHF_T2	0	0	0	0	0	0	0.29	0.23	0	0	0	0	0	0
4/2/2024 20:54	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 20:55	26401	INOR_T1	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
4/2/2024 20:56	42901	MIDD_T2	1	15	14	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/2/2024 20:56	42903	MIDD_T2	2	2	0	1.65	1.5	-0.15	0	0	0	0	0	0	0	0
4/2/2024 20:56	42902	MIDD_T2	5	9	4	0.22	0.24	0.02	-0.49	-0.5	0	0	0	0	0	0
4/2/2024 20:57	65903	SAIR_T2	0	0	0	0	0	0	-1.35	-1.35	3	3	0	2100	2100	0
4/2/2024 20:57	54505	ENOL_T2	1	1	0	0.7	1.1	0.4	-1.26	-1.26	1	1	0	600	600	0
4/2/2024 20:57	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/2/2024 20:58	67002	STHI_T2	180	305	125	0.19	0.17	-0.02	0.59	0.59	0	0	0	0	0	0
4/2/2024 20:58	59101	WALK_T2	0	0	0	0	0	0	1.21	1.07	0	0	0	0	0	0
4/2/2024 20:58	67001	STHI_T2	622	640	18	0.3	0.34	0.04	0	0	0	0	0	0	0	0
4/2/2024 20:58	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 20:58	27502	WEIS_T2	0	0	0	0	0	0	-0.6	-0.69	0	0	0	0	0	0
4/2/2024 20:58	40502	CRES_T2	6	15	9	0.17	0.2	0.03	-0.35	-0.42	0	0	0	0	0	0
4/2/2024 20:59	40101	HUNT_T2	0	1	1	0	0	0	-0.65	-0.58	0	0	0	0	0	0
4/2/2024 20:59	56802	BENV_T2	239	322	83	0.37	0.61	0.24	-1.39	-1.39	0	0	0	0	0	0
4/2/2024 20:59	67204	TEHI_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
4/2/2024 21:00	67001	STHI_T2	640	363	-277	0.34	0.16	-0.18	0	0	0	0	0	0	0	0
4/2/2024 21:00	67002	STHI_T2	305	26	-279	0.17	0.13	-0.04	0.59	0.59	0	0	0	0	0	0
4/2/2024 21:01	46302	ROHR_T1	40	27	-13	0.35	0.39	0.04	0.2	0.22	0	0	0	0	0	0
4/2/2024 21:01	10801	CHHI_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
4/2/2024 21:01	26401	INOR_T1	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
4/2/2024 21:01	40101	HUNT_T2	0	1	1	0	0	0	-0.65	-0.58	0	0	0	0	0	0
4/2/2024 21:01	40502	CRES_T2	14	16	2	0.2	0.18	-0.02	-0.18	-0.21	0	0	0	0	0	0
4/2/2024 21:01	59201	THOM_T1	2	11	9	0.15	0.26	0.11	0	0	0	0	0	0	0	0
4/2/2024 21:01	59202	THOM_T1	18	94	76	0.17	0.21	0.04	0	0	0	0	0	0	0	0
4/2/2024 21:01	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 21:01	46301	ROHR_T1	187	195	8	0.44	0.39	-0.05	0	0	0	0	0	0	0	0
4/2/2024 21:02	59101	WALK_T2	0	0	0	0	0	0	1.21	1.07	0	0	0	0	0	0
4/2/2024 21:02	53501	EVIL_T2	2	1	-1	0.2	0.5	0.3	-0.92	-0.81	1	1	0	600	600	0
4/2/2024 21:02	40101	HUNT_T2	0	1	1	0	0	0	-0.65	-0.58	0	0	0	0	0	0
4/2/2024 21:02	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 21:02	24902	WHHA_T1	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
4/2/2024 21:03	67001	STHI_T2	640	363	-277	0.34	0.16	-0.18	0	0	0	0	0	0	0	0
4/2/2024 21:03	14404	SSLA_T1	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0	0
4/2/2024 21:03	14403	SSLA_T1	0	0	0	0	0	0	0.79	0.72	0	0	0	0	0	0
4/2/2024 21:03	67002	STHI_T2	305	26	-279	0.17	0.13	-0.04	0.59	0.59	0	0	0	0	0	0
4/2/2024 21:03	16402	MOPO_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
4/2/2024 21:04	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 21:04	47001	HUGH_T2	0	2	2	0	0.2	0.2	-0.74	-0.79	0	0	0	0	0	0
4/2/2024 21:04	47002	HUGH_T2	3	1	-2	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
4/2/2024 21:04	14801	TREI_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
4/2/2024 21:04	59402	RFLD_T2	0	0	0	0	0	0	-1.66	-1.64	2	2	0	900	900	0
4/2/2024 21:04	41802	GOCI_T2	7	7	0	0.17	0.21	0.04	0	0	0	0	0	0	0	0
4/2/2024 21:04	41801	GOCI_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/2/2024 21:05	40502	CRES_T2	14	16	2	0.2	0.18	-0.02	-0.18	-0.21	0	0	0	0	0	0
4/2/2024 21:05	58001	WCAR_T1	4	4	0	0.78	0.63	-0.15	0	0	0	0	0	0	0	0
4/2/2024 21:05	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 21:05	20403	ASHF_T2	0	0	0	0	0	0	0.29	0.23	0	0	0	0	0	0
4/2/2024 21:05	20402	ASHF_T2	1	1	0	1.7	0	-1.7	0	0	0	0	0	0	0	0
4/2/2024 21:05	43801	SWIL_T1	2	2	0	3.3	3.1	-0.2	0	0	0	0	0	0	0	0
4/2/2024 21:05	43802	SWIL_T1	0	0	0	0	0	0	-0.1	-0.11	1	1	0	600	600	0
4/2/2024 21:05	58003	WCAR_T1	1	1	0	1.2	0.9	-0.3	-0.1	0.48	1	0	-1	600	0	-600
4/2/2024 21:05	64101	REFR_T1	0	0	0	0	0	0	-1.14	-1.18	0	0	0	0	0	0
4/2/2024 21:05	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 21:06	40101	HUNT_T2	0	1	1	0	0	0	-0.65	-0.58	0	0	0	0	0	0
4/2/2024 21:06	52403	GRPA_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/2/2024 21:06	52402	GRPA_T2	4	5	1	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
4/2/2024 21:06	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/2/2024 21:06	63602	LETO_T1	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
4/2/2024 21:06	52401	GRPA_T2	0	1	1	0	0.5	0.5	-0.55	-0.53	0	0	0	0	0	0
4/2/2024 21:07	55001	NEWP_T1	1	16	15	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/2/2024 21:07	40502	CRES_T2	14	16	2	0.2	0.18	-0.02	-0.18	-0.21	0	0	0	0	0	0
4/2/2024 21:07	64702	LITI_T2	0	0	0	0	0	0	-0.75	-0.71	0	0	0	0	0	0
4/2/2024 21:07	55002	NEWP_T1	5	5	0	1.04	0.84	-0.2	-0.23	-0.23	0	0	0	0	0	0
4/2/2024 21:07	59101	WALK_T2	0	0	0	0	0	0	1.21	1.07	0	0	0	0	0	0
4/2/2024 21:07	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 21:07	15001	BLMO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/2/2024 21:08	20403	ASHF_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
4/2/2024 21:08	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 21:08	43802	SWIL_T1	0	0	0	0	0	0	-0.11	-0.1	1	1	0	600	600	0
4/2/2024 21:08	43801	SWIL_T1	2	2	0	3.3	3.1	-0.2	0	0	0	0	0	0	0	0
4/2/2024 21:08	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 21:08	20402	ASHF_T2	1	1	0	1.7	0	-1.7	0	0	0	0	0	0	0	0
4/2/2024 21:09	44601	SALE_T2	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
4/2/2024 21:09	46302	ROHR_T1	40	27	-13	0.35	0.39	0.04	0	0	0	0	0	0	0	0
4/2/2024 21:09	15001	BLMO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/2/2024 21:09	40602	PIGR_T1	1	1	0	2	2.1	0.1	-1.05	-1.13	2	2	0	1200	1200	0
4/2/2024 21:09	54204	PENN_T2	3	3	0	0.5	0.67	0.17	0	0	0	0	0	0	0	0
4/2/2024 21:09	40601	PIGR_T1	14	74	60	0.14	0.18	0.04	0	0	0	0	0	0	0	0
4/2/2024 21:09	54202	PENN_T2	90	288	198	0.16	0.23	0.07	0.54	0.51	0	0	0	0	0	0
4/2/2024 21:09	54206	PENN_T2	65	172	107	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
4/2/2024 21:09	46301	ROHR_T1	187	195	8	0.44	0.39	-0.05	0.21	0.21	0	0	0	0	0	0
4/2/2024 21:09	56802	BENV_T2	294	350	56	0.47	0.64	0.17	-1.39	-1.45	0	0	0	0	0	0
4/2/2024 21:09	65001	NEFF_T2	153	221	68	0.16	0.24	0.08	-0.86	-0.96	1	1	0	1200	1200	0
4/2/2024 21:09	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 21:09	64702	LITI_T2	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
4/2/2024 21:09	42201	SHEN_T2	0	0	0	0	0	0	-0.17	-0.18	1	1	0	600	600	0
4/2/2024 21:10	59301	MCAL_T1	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
4/2/2024 21:10	14403	SSLA_T1	0	0	0	0	0	0	0.72	0.69	0	0	0	0	0	0
4/2/2024 21:10	67502	WEWI_T2	0	0	0	0	0	0	-1.46	-1.46	1	1	0	900	900	0
4/2/2024 21:10	56802	BENV_T2	294	350	56	0.47	0.64	0.17	-1.39	-1.45	0	0	0	0	0	0
4/2/2024 21:10	52501	PROG_T1	0	0	0	0	0	0	0.31	0.33	1	1	0	300	300	0
4/2/2024 21:10	14404	SSLA_T1	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0	0
4/2/2024 21:10	60101	COCA_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
4/2/2024 21:10	59302	MCAL_T1	1	1	0	0.2	0.4	0.2	-0.43	-0.45	1	1	0	600	600	0
4/2/2024 21:11	46302	ROHR_T1	40	27	-13	0.35	0.39	0.04	0	0	0	0	0	0	0	0
4/2/2024 21:11	54505	ENOL_T2	1	1	0	0.8	1.2	0.4	-1.26	-1.3	1	1	0	600	600	0
4/2/2024 21:11	43801	SWIL_T1	2	2	0	3.3	3.1	-0.2	0	0	0	0	0	0	0	0
4/2/2024 21:11	46301	ROHR_T1	187	195	8	0.44	0.39	-0.05	0.21	0.21	0	0	0	0	0	0
4/2/2024 21:11	67502	WEWI_T2	0	0	0	0	0	0	-1.46	-1.46	1	1	0	900	900	0
4/2/2024 21:11	60803	BUCK_T1	0	0	0	0	0	0	-1.09	-1.09	2	2	0	1200	1200	0
4/2/2024 21:11	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/2/2024 21:11	43802	SWIL_T1	0	0	0	0	0	0	-0.11	-0.1	1	1	0	600	600	0
4/2/2024 21:11	64301	LINC_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
4/2/2024 21:12	67204	TEHI_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
4/2/2024 21:12	63401	HONY_T1	0	0	0	0	0	0	0.63	0.53	0	0	0	0	0	0
4/2/2024 21:12	42701	AUGU_T1	1	1	0	0.1	0.3	0.2	0	0	2	2	0	1800	1800	0
4/2/2024 21:12	40903	JESH_T1	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
4/2/2024 21:12	56802	BENV_T2	294	350	56	0.47	0.64	0.17	-1.39	-1.45	0	0	0	0	0	0
4/2/2024 21:12	60101	COCA_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
4/2/2024 21:12	40901	JESH_T1	3	23	20	0.13	0.15	0.02	0	0	0	0	0	0	0	0
4/2/2024 21:12	40902	JESH_T1	2	8	6	0.1	0.14	0.04	-0.82	-0.84	0	0	0	0	0	0
4/2/2024 21:13	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/2/2024 21:13	54505	ENOL_T2	1	1	0	0.8	1.2	0.4	-1.26	-1.3	1	1	0	600	600	0
4/2/2024 21:13	67002	STHI_T2	305	26	-279	0.17	0.13	-0.04	0.59	0.58	0	0	0	0	0	0
4/2/2024 21:13	67203	TEHI_T1	0	0	0	0	0	0	2.43	2.24	1	1	0	600	600	0
4/2/2024 21:13	44601	SALE_T2	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/2/2024 21:13	67001	STHI_T2	640	363	-277	0.34	0.16	-0.18	0	0	0	0	0	0	0	0
4/2/2024 21:13	58001	WCAR_T1	4	4	0	0.78	0.63	-0.15	0	0	0	0	0	0	0	0
4/2/2024 21:13	56802	BENV_T2	294	350	56	0.47	0.64	0.17	-2.78	-2.89	0	0	0	0	0	0
4/2/2024 21:13	40502	CRES_T2	14	16	2	0.2	0.18	-0.02	-0.21	-0.23	0	0	0	0	0	0
4/2/2024 21:13	56501	ROCK_T2	3	8	5	0.2	0.28	0.08	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 21:13	58003	WCAR_T1	1	1	0	1.2	0.9	-0.3	0.48	0.52	0	0	0	0	0	0
4/2/2024 21:13	40101	HUNT_T2	0	1	1	0	0	0	-0.58	-0.62	0	0	0	0	0	0
4/2/2024 21:13	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 21:13	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 21:14	40502	CRES_T2	14	16	2	0.2	0.18	-0.02	-0.21	-0.23	0	0	0	0	0	0
4/2/2024 21:14	26001	WDAM_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
4/2/2024 21:14	46004	BERW_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
4/2/2024 21:14	43201	MVIL_T2	1	0	-1	0.1	0	-0.1	-0.38	-0.39	0	0	0	0	0	0
4/2/2024 21:14	56802	BENV_T2	294	350	56	0.47	0.64	0.17	-4.17	-4.34	0	0	0	0	0	0
4/2/2024 21:14	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/2/2024 21:14	43202	MVIL_T2	97	119	22	0.43	0.53	0.1	0	0	0	0	0	0	0	0
4/2/2024 21:14	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/2/2024 21:14	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 21:14	52402	GRPA_T2	4	5	1	1.6	1.5	-0.1	-0.8	-0.82	0	0	0	0	0	0
4/2/2024 21:14	26002	WDAM_T1	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
4/2/2024 21:14	52403	GRPA_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/2/2024 21:14	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 21:15	56801	BENV_T1	14	20	6	0.29	0.42	0.13	-0.77	-0.75	1	1	0	600	600	0
4/2/2024 21:15	54502	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/2/2024 21:15	54505	ENOL_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
4/2/2024 21:15	54501	ENOL_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
4/2/2024 21:15	46203	DANV_T2	175	98	-77	0.57	0.44	-0.13	-1	-1.03	0	0	0	0	0	0
4/2/2024 21:15	56803	BENV_T1	3	5	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/2/2024 21:15	56802	BENV_T2	308	385	77	0.63	0.61	-0.02	-1.39	-1.45	0	0	0	0	0	0
4/2/2024 21:16	54206	PENN_T2	110	178	68	0.34	0.32	-0.02	-0.03	-0.08	0	0	0	0	0	0
4/2/2024 21:16	52502	PROG_T2	0	0	0	0	0	0	0.39	0.34	0	0	0	0	0	0
4/2/2024 21:16	28403	HART_T2	0	0	0	0	0	0	-0.94	-0.91	1	1	0	900	900	0
4/2/2024 21:16	54202	PENN_T2	139	306	167	0.2	0.23	0.03	0	0	0	0	0	0	0	0
4/2/2024 21:16	21901	HUMB_T1	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
4/2/2024 21:16	40101	HUNT_T2	1	0	-1	0.4	0	-0.4	-0.58	-0.62	0	0	0	0	0	0
4/2/2024 21:16	56802	BENV_T2	308	385	77	0.63	0.61	-0.02	-1.39	-1.45	0	0	0	0	0	0
4/2/2024 21:16	54204	PENN_T2	3	3	0	0.63	0.73	0.1	0	0	0	0	0	0	0	0
4/2/2024 21:17	45402	WBLO_T2	30	12	-18	0.22	0.12	-0.1	-0.82	-0.79	0	0	0	0	0	0
4/2/2024 21:17	41901	REED_T1	9	9	0	0.5	0.61	0.11	0	0	0	0	0	0	0	0
4/2/2024 21:17	67605	WARW_T1	10	0	-10	0.38	0	-0.38	-0.82	-0.83	0	0	0	0	0	0
4/2/2024 21:17	67401	WAKE_T2	0	0	0	0	0	0	-1.18	-1.1	0	0	0	0	0	0
4/2/2024 21:17	41902	REED_T1	0	0	0	0	0	0	1.11	1.08	0	0	0	0	0	0
4/2/2024 21:18	50102	HARR_T3	8	19	11	0.24	0.28	0.04	0	0	0	0	0	0	0	0
4/2/2024 21:18	40502	CRES_T2	9	16	7	0.17	0.18	0.01	-0.21	-0.23	0	0	0	0	0	0
4/2/2024 21:18	54202	PENN_T2	139	306	167	0.2	0.23	0.03	0	0	0	0	0	0	0	0
4/2/2024 21:18	50103	HARR_T3	0	1	1	0	0.2	0.2	-1.06	-1.06	1	1	0	1200	1200	0
4/2/2024 21:18	50105	HARR_T3	8	8	0	6.08	5.86	-0.22	0	0	0	0	0	0	0	0
4/2/2024 21:18	67605	WARW_T1	10	0	-10	0.38	0	-0.38	-0.82	-0.83	0	0	0	0	0	0
4/2/2024 21:18	42201	SHEN_T2	0	0	0	0	0	0	-0.17	-0.18	1	1	0	600	600	0
4/2/2024 21:18	54206	PENN_T2	110	178	68	0.34	0.32	-0.02	-0.03	-0.08	0	0	0	0	0	0
4/2/2024 21:18	50202	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/2/2024 21:18	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 21:18	50201	HARR_T3	2	2	0	4.4	4.5	0.1	0	0	0	0	0	0	0	0
4/2/2024 21:18	53501	EVIL_T2	1	1	0	0.2	0.8	0.6	-0.81	-0.97	1	1	0	600	600	0
4/2/2024 21:18	54204	PENN_T2	3	3	0	0.63	0.73	0.1	0	0	0	0	0	0	0	0
4/2/2024 21:19	50105	HARR_T3	8	8	0	6.08	5.86	-0.22	0	0	0	0	0	0	0	0
4/2/2024 21:19	50102	HARR_T3	8	19	11	0.24	0.28	0.04	0	0	0	0	0	0	0	0
4/2/2024 21:19	26002	WDAM_T1	3	4	1	0.17	0.45	0.28	0	0	0	0	0	0	0	0
4/2/2024 21:19	15001	BLMO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/2/2024 21:19	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 21:19	43202	MVIL_T2	95	120	25	0.49	0.52	0.03	-0.68	-0.69	0	0	0	0	0	0
4/2/2024 21:19	26001	WDAM_T1	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
4/2/2024 21:19	50202	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/2/2024 21:19	60605	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 21:19	40502	CRES_T2	9	16	7	0.17	0.18	0.01	-0.42	-0.46	0	0	0	0	0	0
4/2/2024 21:19	50103	HARR_T3	0	1	1	0	0.2	0.2	-1.06	-1.06	1	1	0	1200	1200	0
4/2/2024 21:19	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 21:19	50201	HARR_T3	2	2	0	4.4	4.5	0.1	0	0	0	0	0	0	0	0
4/2/2024 21:20	40101	HUNT_T2	1	0	-1	0.4	0	-0.4	-0.58	-0.62	0	0	0	0	0	0
4/2/2024 21:20	54204	PENN_T2	3	3	0	0.63	0.73	0.1	0	0	0	0	0	0	0	0
4/2/2024 21:20	40502	CRES_T2	9	16	7	0.17	0.18	0.01	-0.21	-0.23	0	0	0	0	0	0
4/2/2024 21:20	54206	PENN_T2	110	178	68	0.34	0.32	-0.02	-0.03	-0.08	0	0	0	0	0	0
4/2/2024 21:20	54202	PENN_T2	139	306	167	0.2	0.23	0.03	0	0	0	0	0	0	0	0
4/2/2024 21:20	60605	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 21:20	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/2/2024 21:22	43104	SMIL_T2	0	0	0	0	0	0	-0.81	-0.8	1	1	0	300	300	0
4/2/2024 21:22	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	2	2	0	1800	1800	0
4/2/2024 21:22	40602	PIGR_T1	1	1	0	2.3	2.1	-0.2	-0.53	-0.56	1	1	0	600	600	0
4/2/2024 21:22	46203	DANV_T2	175	98	-77	0.57	0.44	-0.13	-1	-1.03	0	0	0	0	0	0
4/2/2024 21:22	43102	SMIL_T2	5	7	2	0.62	0.66	0.04	0	0	0	0	0	0	0	0
4/2/2024 21:22	43103	SMIL_T2	16	19	3	0.47	0.47	0	0	0	0	0	0	0	0	0
4/2/2024 21:22	40601	PIGR_T1	41	70	29	0.13	0.18	0.05	0	0	0	0	0	0	0	0
4/2/2024 21:22	56501	ROCK_T2	5	12	7	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/2/2024 21:22	43105	SMIL_T2	10	15	5	0.14	0.19	0.05	0	0	0	0	0	0	0	0
4/2/2024 21:22	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
4/2/2024 21:23	67002	STHI_T2	24	18	-6	0.13	0.11	-0.02	0.58	0.55	0	0	0	0	0	0
4/2/2024 21:23	60101	COCA_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
4/2/2024 21:23	41901	REED_T1	9	9	0	0.5	0.61	0.11	0	0	0	0	0	0	0	0
4/2/2024 21:23	41902	REED_T1	0	0	0	0	0	0	1.08	1.05	0	0	0	0	0	0
4/2/2024 21:23	46203	DANV_T2	175	98	-77	0.57	0.44	-0.13	0	0	0	0	0	0	0	0
4/2/2024 21:23	46206	DANV_T2	0	0	0	0	0	0	2.02	1.99	1	1	0	1200	1200	0
4/2/2024 21:23	67001	STHI_T2	343	294	-49	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
4/2/2024 21:24	46301	ROHR_T1	185	170	-15	0.38	0.38	0	0	0	0	0	0	0	0	0
4/2/2024 21:24	46302	ROHR_T1	26	9	-17	0.4	1.02	0.62	0.2	0.18	0	0	0	0	0	0
4/2/2024 21:24	60101	COCA_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
4/2/2024 21:24	59101	WALK_T2	0	0	0	0	0	0	0.84	0.96	0	0	0	0	0	0
4/2/2024 21:24	66703	STRA_T1	4	10	6	0.28	0.52	0.24	-0.36	-0.37	0	0	0	0	0	0
4/2/2024 21:25	52401	GRPA_T2	1	1	0	0.3	0.6	0.3	-0.49	-0.49	0	0	0	0	0	0
4/2/2024 21:25	52402	GRPA_T2	5	5	0	1.32	1.56	0.24	0	0	0	0	0	0	0	0
4/2/2024 21:25	52403	GRPA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/2/2024 21:25	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/2/2024 21:26	52403	GRPA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/2/2024 21:26	43202	MVIL_T2	95	120	25	0.49	0.52	0.03	-0.69	-0.69	0	0	0	0	0	0
4/2/2024 21:26	52401	GRPA_T2	1	1	0	0.3	0.6	0.3	-0.49	-0.49	0	0	0	0	0	0
4/2/2024 21:26	52402	GRPA_T2	5	5	0	1.32	1.56	0.24	0	0	0	0	0	0	0	0
4/2/2024 21:26	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/2/2024 21:26	56501	ROCK_T2	5	12	7	0.2	0.25	0.05	-0.01	-0.01	0	0	0	0	0	0
4/2/2024 21:27	45702	LIND_T2	1	0	-1	1.3	0	-1.3	-0.52	-0.54	0	0	0	0	0	0
4/2/2024 21:27	53501	EVIL_T2	1	1	0	0.2	0.8	0.6	-0.97	-0.92	1	1	0	600	600	0
4/2/2024 21:27	55001	NEWP_T1	16	6	-10	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
4/2/2024 21:27	55002	NEWP_T1	5	4	-1	0.66	1.03	0.37	-0.26	-0.25	0	0	0	0	0	0
4/2/2024 21:28	56802	BENV_T2	308	385	77	0.63	0.61	-0.02	-1.45	-1.48	0	0	0	0	0	0
4/2/2024 21:28	55001	NEWP_T1	16	6	-10	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
4/2/2024 21:28	55002	NEWP_T1	5	4	-1	0.66	1.03	0.37	-0.26	-0.25	0	0	0	0	0	0
4/2/2024 21:30	52403	GRPA_T2	1	1	0	0.7	0.4	-0.3	-0.01	-0.02	0	0	0	0	0	0
4/2/2024 21:30	52401	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/2/2024 21:30	52402	GRPA_T2	5	5	0	1.46	1.7	0.24	0	0	0	0	0	0	0	0
4/2/2024 21:30	52404	GRPA_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/2/2024 21:30	59402	RELD_T2	0	0	0	0	0	0	-0.86	-0.86	1	1	0	450	450	0
4/2/2024 21:31	45602	WOOL_T1	3	3	0	0.43	0.5	0.07	0.41	0.42	0	0	0	0	0	0
4/2/2024 21:31	56802	BENV_T2	334	424	90	0.64	0.69	0.05	-1.45	-1.48	0	0	0	0	0	0
4/2/2024 21:32	52404	GRPA_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/2/2024 21:32	52402	GRPA_T2	5	5	0	1.46	1.7	0.24	-0.82	-0.82	0	0	0	0	0	0
4/2/2024 21:32	52401	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/2/2024 21:32	52403	GRPA_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
4/2/2024 21:33	40903	JESH_T1	9	131	122	0.12	0.2	0.08	0	0	0	0	0	0	0	0
4/2/2024 21:33	56801	BENV_T1	12	23	11	0.4	0.63	0.23	-0.75	-0.78	1	1	0	600	600	0
4/2/2024 21:33	40901	JESH_T1	19	99	80	0.15	0.25	0.1	0	0	0	0	0	0	0	0
4/2/2024 21:33	40902	JESH_T1	8	140	132	0.14	0.14	0	-0.84	-0.88	0	0	0	0	0	0
4/2/2024 21:33	56803	BENV_T1	5	5	0	0.4	0.66	0.26	0	0	0	0	0	0	0	0
4/2/2024 21:34	58401	MORO_T1	0	0	0	0	0	0	-1.18	-1.19	1	1	0	600	600	0
4/2/2024 21:35	44301	BEAV_T2	0	2	2	0	0.25	0.25	0.08	0.02	1	1	0	600	600	0
4/2/2024 21:35	44302	BEAV_T2	10	64	54	0.1	0.29	0.19	0	0	0	0	0	0	0	0
4/2/2024 21:35	56803	BENV_T1	5	5	0	0.4	0.66	0.26	0	0	0	0	0	0	0	0
4/2/2024 21:35	56801	BENV_T1	12	23	11	0.4	0.63	0.23	-0.75	-0.78	1	1	0	600	600	0
4/2/2024 21:57	56802	BENV_T2	375	411	36	0.57	0.7	0.13	-2.82	-2.89	0	0	0	0	0	0
4/2/2024 22:21	14801	TREI_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
4/3/2024 7:56	45502	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 7:56	45501	DERR_T2	0	0	0	0	0	0	0.55	0.79	2	2	0	1800	1800	0
4/3/2024 8:05	60605	NCOL_T2	0	8	8	0	0.3	0.3	0	0	0	0	0	0	0	0
4/3/2024 8:07	56802	BENV_T2	0	10	10	0	0.17	0.17	-1.39	-1.4	0	0	0	0	0	0
4/3/2024 8:09	56802	BENV_T2	0	10	10	0	0.17	0.17	-1.4	-1.37	0	0	0	0	0	0
4/3/2024 8:14	24902	WHHA_T1	182	173	-9	1.79	1.25	-0.54	0	0	0	0	0	0	0	0
4/3/2024 8:39	46203	DANV_T2	9	22	13	0.18	0.28	0.1	-0.98	-0.89	0	0	0	0	0	0
4/3/2024 8:43	40101	HUNT_T2	2	1	-1	0.2	0.4	0.2	-0.5	-0.46	0	0	0	0	0	0
4/3/2024 8:46	40101	HUNT_T2	1	1	0	0.4	0	-0.4	-0.5	-0.46	0	0	0	0	0	0
4/3/2024 8:47	64702	LITI_T2	0	0	0	0	0	0	-0.73	-0.83	0	0	0	0	0	0
4/3/2024 9:00	58402	MORO_T1	0	0	0	0	0	0	-0.98	-0.93	3	3	0	2400	2400	0
4/3/2024 9:04	58402	MORO_T1	0	0	0	0	0	0	-0.98	-0.93	3	3	0	2400	2400	0
4/3/2024 9:06	67204	TEHI_T2	0	0	0	0	0	0	0.17	-0.02	0	0	0	0	0	0
4/3/2024 9:07	67402	WAKE_T2	0	0	0	0	0	0	0.44	0.41	1	1	0	600	600	0
4/3/2024 9:07	67204	TEHI_T2	0	0	0	0	0	0	0.17	-0.02	0	0	0	0	0	0
4/3/2024 9:07	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 9:09	26001	WDAM_T1	0	378	378	0	8.99	8.99	-0.62	-0.62	0	0	0	0	0	0
4/3/2024 9:11	24902	WHHA_T1	53	132	79	0.75	0.85	0.1	0	0	0	0	0	0	0	0
4/3/2024 9:11	10801	CHHI_T1	0	0	0	0	0	0	-1.25	-1.28	2	2	0	1500	1500	0
4/3/2024 9:11	46203	DANV_T2	17	41	24	0.25	0.33	0.08	-0.97	-0.93	0	0	0	0	0	0
4/3/2024 9:15	25402	LAHA_T2	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
4/3/2024 9:17	64702	LITI_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
4/3/2024 9:17	41902	REED_T1	2	4	2	0.6	0	-0.6	1.18	1.15	0	0	0	0	0	0
4/3/2024 9:18	60605	NCOL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 9:19	60605	NCOL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 9:19	41902	REED_T1	2	4	2	0.6	0	-0.6	1.18	1.15	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/3/2024 9:19	64702	LITI_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
4/3/2024 9:20	27101	GFLD_T2	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
4/3/2024 9:21	41902	REED_T1	2	4	2	0.6	0	-0.6	1.18	1.15	0	0	0	0	0	0
4/3/2024 9:21	60605	NCOL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 9:27	52402	GRPA_T2	4	1	-3	1.15	3.6	2.45	-1.07	-1.07	0	0	0	0	0	0
4/3/2024 9:27	52403	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 9:27	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 9:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 9:28	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 9:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 9:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 9:31	43202	MVIL_T2	0	1	1	0	0	0	-0.54	-0.49	0	0	0	0	0	0
4/3/2024 9:31	55002	NEWP_T1	5	5	0	0.48	0.52	0.04	-0.22	-0.2	0	0	0	0	0	0
4/3/2024 9:32	55002	NEWP_T1	5	5	0	0.48	0.52	0.04	-0.22	-0.2	0	0	0	0	0	0
4/3/2024 9:34	52402	GRPA_T2	1	1	0	3.4	3.6	0.2	-1.07	-1.07	0	0	0	0	0	0
4/3/2024 9:34	52403	GRPA_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 9:37	67204	TEHI_T2	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
4/3/2024 9:38	10801	CHHI_T1	0	0	0	0	0	0	-1.32	-1.36	2	2	0	1500	1500	0
4/3/2024 9:38	67204	TEHI_T2	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
4/3/2024 9:40	56802	BENV_T2	11	16	5	0.15	0.15	0	-2.72	-2.74	0	0	0	0	0	0
4/3/2024 9:40	46203	DANV_T2	18	22	4	0.26	0.22	-0.04	-0.92	-0.91	0	0	0	0	0	0
4/3/2024 9:42	56802	BENV_T2	11	16	5	0.15	0.15	0	-2.72	-2.74	0	0	0	0	0	0
4/3/2024 9:48	64101	REFR_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
4/3/2024 9:49	17002	RIRO_T2	0	47	47	0	0.18	0.18	0.73	0.75	0	0	0	0	0	0
4/3/2024 9:49	59301	MCAL_T1	0	0	0	0	0	0	-1.65	-1.66	1	1	0	600	600	0
4/3/2024 9:50	57401	SPAN_T1	2	4	2	0.15	0.15	0	-0.68	-0.65	1	1	0	600	600	0
4/3/2024 9:51	66504	SMAN_T2	0	0	0	0	0	0	-0.71	-0.66	0	0	0	0	0	0
4/3/2024 9:51	57401	SPAN_T1	2	4	2	0.15	0.15	0	-0.68	-0.65	1	1	0	600	600	0
4/3/2024 9:52	64101	REFR_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
4/3/2024 9:52	57401	SPAN_T1	2	4	2	0.15	0.15	0	-1.36	-1.31	2	2	0	1200	1200	0
4/3/2024 9:54	67401	WAKE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 9:54	67402	WAKE_T2	0	0	0	0	0	0	0.41	0.42	1	1	0	600	600	0
4/3/2024 9:57	52403	GRPA_T2	2	3	1	0.75	0.3	-0.45	0	0	0	0	0	0	0	0
4/3/2024 9:57	52402	GRPA_T2	1	2	1	3.6	2.05	-1.55	0	0	0	0	0	0	0	0
4/3/2024 9:57	52404	GRPA_T2	0	0	0	0	0	0	0.54	0.4	0	0	0	0	0	0
4/3/2024 9:57	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 9:59	12701	MACU_T1	0	0	0	0	0	0	0.15	0.19	0	0	0	0	0	0
4/3/2024 10:00	56504	ROCK_T2	0	23	23	0	0	0	83.96	83.96	0	0	0	0	0	0
4/3/2024 10:00	17002	RIRO_T2	38	51	13	0.19	0.18	-0.01	0.75	0.77	0	0	0	0	0	0
4/3/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.81	0.83	2	2	0	1200	1200	0
4/3/2024 10:00	55002	NEWP_T1	5	6	1	0.38	0.8	0.42	-0.42	-0.34	0	0	0	0	0	0
4/3/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	1.07	0.99	0	0	0	0	0	0
4/3/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	0.77	0.72	2	2	0	1800	1800	0
4/3/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	0.06	0.07	1	1	0	1200	1200	0
4/3/2024 10:00	52402	GRPA_T2	1	34	33	3.1	0.98	-2.12	0	0	0	0	0	0	0	0
4/3/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	-0.3	-0.27	1	1	0	600	600	0
4/3/2024 10:00	67401	WAKE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:00	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.39	-0.37	1	1	0	600	600	0
4/3/2024 10:00	53902	HALI_T2	1	1	0	5.3	4.8	-0.5	0	0	0	0	0	0	0	0
4/3/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	-0.14	-0.11	1	1	0	600	600	0
4/3/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.11	0.02	0	0	0	0	0	0
4/3/2024 10:00	52403	GRPA_T2	2	3	1	0.4	0.13	-0.27	0.15	0.13	0	0	0	0	0	0
4/3/2024 10:00	45602	WOOL_T1	0	0	0	0	0	0	0.59	0.65	0	0	0	0	0	0
4/3/2024 10:00	53903	HALI_T2	2	2	0	0.75	0.8	0.05	-0.13	-0.13	0	0	0	0	0	0
4/3/2024 10:00	67201	TEHI_T1	1	5	4	1	0.3	-0.7	0	0	0	0	0	0	0	0
4/3/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	0.07	0.12	0	0	0	0	0	0
4/3/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
4/3/2024 10:00	60605	NCOL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
4/3/2024 10:00	42301	MOWR_T2	1	1	0	5	5.6	0.6	0	0	0	0	0	0	0	0
4/3/2024 10:00	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	-0.39	-0.5	1	1	0	600	600	0
4/3/2024 10:00	67203	TEHI_T1	0	3	3	0	0	0	2.84	2.89	2	2	0	1200	1200	0
4/3/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	-0.45	-0.46	1	1	0	600	600	0
4/3/2024 10:00	56501	ROCK_T2	2	6	4	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
4/3/2024 10:00	29402	BELT_T1	1	1	0	7.6	6.5	-1.1	0	0	0	0	0	0	0	0
4/3/2024 10:00	53901	HALI_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/3/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.52	0.41	0	0	0	0	0	0
4/3/2024 10:00	52404	GRPA_T2	0	0	0	0	0	0	0.54	0.4	0	0	0	0	0	0
4/3/2024 10:00	40101	HUNT_T2	10	12	2	0.2	0.2	0	-1.12	-1.11	0	0	0	0	0	0
4/3/2024 10:00	10801	CHHI_T1	0	0	0	0	0	0	-2.71	-1.55	4	2	-2	3000	1800	-1200
4/3/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-0.72	-0.76	1	1	0	900	900	0
4/3/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
4/3/2024 10:00	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
4/3/2024 10:00	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/3/2024 10:00	41902	REED_T1	0	0	0	0	0	0	3.61	3.58	0	0	0	0	0	0
4/3/2024 10:00	43202	MVIL_T2	0	1	1	0	0	0	-0.53	-0.52	0	0	0	0	0	0
4/3/2024 10:01	43202	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:01	12701	MACU_T1	0	0	0	0	0	0	0.15	0.19	0	0	0	0	0	0
4/3/2024 10:01	43201	MVIL_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
4/3/2024 10:03	56504	ROCK_T2	0	23	23	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:03	56501	ROCK_T2	2	6	4	0.2	0.18	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 10:06	56501	ROCK_T2	2	6	4	0.2	0.18	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 10:06	55002	NEWP_T1	5	6	1	0.38	0.8	0.42	-0.21	-0.17	0	0	0	0	0	0
4/3/2024 10:06	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:06	40902	JESH_T1	0	0	0	0	0	0	-0.37	-0.44	0	0	0	0	0	0
4/3/2024 10:06	56504	ROCK_T2	0	23	23	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:06	26001	WDAM_T1	1	1	0	0.2	0.3	0.1	-0.67	-0.67	0	0	0	0	0	0
4/3/2024 10:06	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:06	40502	CRES_T2	0	14	14	0	0.26	0.26	-0.06	-0.04	0	0	0	0	0	0
4/3/2024 10:07	40101	HUNT_T2	10	12	2	0.2	0.2	0	-0.56	-0.56	0	0	0	0	0	0
4/3/2024 10:07	51401	LYKE_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
4/3/2024 10:07	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:07	45602	WOOL_T1	0	0	0	0	0	0	0.59	0.65	0	0	0	0	0	0
4/3/2024 10:07	60605	NCOL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:07	56504	ROCK_T2	0	23	23	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:07	48302	ORWI_T2	2	2	0	0.75	0.85	0.1	0.16	0.12	0	0	0	0	0	0
4/3/2024 10:07	64101	REFR_T1	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
4/3/2024 10:07	67201	TEHI_T1	1	5	4	1	0.3	-0.7	0.55	0.52	0	0	0	0	0	0
4/3/2024 10:07	67203	TEHI_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:07	12502	MITR_T2	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
4/3/2024 10:07	58402	MORO_T1	0	0	0	0	0	0	-0.84	-0.81	3	3	0	2400	2400	0
4/3/2024 10:07	57401	SPAN_T1	2	345	343	0.15	0.45	0.3	-0.65	-0.68	1	1	0	600	600	0
4/3/2024 10:07	12505	MITR_T2	0	0	0	0	0	0	1.15	1.14	0	0	0	0	0	0
4/3/2024 10:07	56501	ROCK_T2	2	6	4	0.2	0.18	-0.02	-0.04	-0.04	0	0	0	0	0	0
4/3/2024 10:07	57403	SPAN_T1	0	20	20	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:07	20403	ASHF_T2	0	0	0	0	0	0	0.31	0.36	0	0	0	0	0	0
4/3/2024 10:08	42903	MIDD_T2	0	0	0	0	0	0	0.71	0.88	1	1	0	1200	1200	0
4/3/2024 10:08	58803	COCO_T1	1	1	0	2.3	2.5	0.2	0	0	0	0	0	0	0	0
4/3/2024 10:08	46206	DANV_T2	0	0	0	0	0	0	1.89	1.93	1	1	0	1200	1200	0
4/3/2024 10:08	46203	DANV_T2	7	12	5	0.13	0.16	0.03	0	0	0	0	0	0	0	0
4/3/2024 10:08	57401	SPAN_T1	2	345	343	0.15	0.45	0.3	-1.36	-1	2	2	0	1200	1200	0
4/3/2024 10:08	58001	WCAR_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/3/2024 10:08	56504	ROCK_T2	0	23	23	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:08	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.32	0	0	0	0	0	0
4/3/2024 10:08	57403	SPAN_T1	0	20	20	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:08	58003	WCAR_T1	1	1	0	0.3	0.6	0.3	0	0	1	1	0	600	600	0
4/3/2024 10:08	60605	NCOL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:08	56501	ROCK_T2	2	6	4	0.2	0.18	-0.02	-0.02	-0.02	0	0	0	0	0	0
4/3/2024 10:08	56802	BENV_T2	1	65	64	0.5	0.17	-0.33	-3.91	-3.56	0	0	0	0	0	0
4/3/2024 10:09	45501	DERR_T2	0	0	0	0	0	0	1.44	1.59	4	4	0	3600	3600	0
4/3/2024 10:09	46203	DANV_T2	7	12	5	0.13	0.16	0.03	-1.76	-1.8	0	0	0	0	0	0
4/3/2024 10:09	56802	BENV_T2	1	65	64	0.5	0.17	-0.33	-1.3	-1.19	0	0	0	0	0	0
4/3/2024 10:09	64101	REFR_T1	0	0	0	0	0	0	-0.95	-0.91	0	0	0	0	0	0
4/3/2024 10:09	40502	CRES_T2	0	14	14	0	0.26	0.26	-0.08	-1.36	0	0	0	0	0	0
4/3/2024 10:09	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:09	60605	NCOL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:10	56802	BENV_T2	1	65	64	0.5	0.17	-0.33	-5.21	-4.75	0	0	0	0	0	0
4/3/2024 10:10	40502	CRES_T2	0	14	14	0	0.26	0.26	-2.12	-2.04	0	0	0	0	0	0
4/3/2024 10:10	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:11	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:11	40502	CRES_T2	0	14	14	0	0.26	0.26	-0.29	-4.76	0	0	0	0	0	0
4/3/2024 10:11	56802	BENV_T2	1	65	64	0.5	0.17	-0.33	-3.91	-3.56	0	0	0	0	0	0
4/3/2024 10:11	45501	DERR_T2	0	0	0	0	0	0	1.44	1.59	4	4	0	3600	3600	0
4/3/2024 10:12	40502	CRES_T2	0	14	14	0	0.26	0.26	-0.04	-0.68	0	0	0	0	0	0
4/3/2024 10:12	56802	BENV_T2	1	65	64	0.5	0.17	-0.33	-2.6	-2.38	0	0	0	0	0	0
4/3/2024 10:12	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:13	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:13	45501	DERR_T2	0	0	0	0	0	0	0.72	0.79	2	2	0	1800	1800	0
4/3/2024 10:13	40502	CRES_T2	0	14	14	0	0.26	0.26	-0.08	-1.36	0	0	0	0	0	0
4/3/2024 10:13	25402	LAHA_T2	0	1	1	0	0	0	-0.74	-0.74	0	0	0	0	0	0
4/3/2024 10:14	40502	CRES_T2	0	14	14	0	0.26	0.26	-0.04	-0.68	0	0	0	0	0	0
4/3/2024 10:14	52402	GRPA_T2	1	34	33	3.1	0.98	-2.12	-0.97	-0.9	0	0	0	0	0	0
4/3/2024 10:14	52403	GRPA_T2	2	3	1	0.4	0.13	-0.27	0.13	0.15	0	0	0	0	0	0
4/3/2024 10:14	24902	WHHA_T1	138	168	30	0.91	1.12	0.21	0	0	0	0	0	0	0	0
4/3/2024 10:14	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:15	12701	MACU_T1	0	2	2	0	0	0	0.19	0.18	0	0	0	0	0	0
4/3/2024 10:15	24902	WHHA_T1	156	181	25	1.13	1.34	0.21	0	0	0	0	0	0	0	0
4/3/2024 10:17	52502	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:17	52402	GRPA_T2	1	3	2	0.4	0.27	-0.13	-0.97	-0.9	0	0	0	0	0	0
4/3/2024 10:17	52503	PROG_T2	0	679	679	0	0	0	-0.57	-0.7	1	1	0	900	900	0
4/3/2024 10:17	56501	ROCK_T2	5	7	2	0.2	0.23	0.03	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 10:17	52403	GRPA_T2	3	3	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/3/2024 10:18	27101	GFLD_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/3/2024 10:19	67002	STHI_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
4/3/2024 10:19	56501	ROCK_T2	5	7	2	0.2	0.23	0.03	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 10:19	67001	STHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/3/2024 10:19	65001	NEFF_T2	0	0	0	0	0	0	-0.57	-0.5	1	1	0	1200	1200	0
4/3/2024 10:19	67204	TEHI_T2	0	0	0	0	0	0	-0.04	0.01	0	0	0	0	0	0
4/3/2024 10:20	52502	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:20	67001	STHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/3/2024 10:20	52503	PROG_T2	0	679	679	0	0	0	-0.57	-0.7	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/3/2024 10:20	67002	STHI_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
4/3/2024 10:20	67204	TEHI_T2	0	0	0	0	0	0	-0.04	0.01	0	0	0	0	0	0
4/3/2024 10:21	60605	NCOL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:21	67001	STHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/3/2024 10:21	67002	STHI_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
4/3/2024 10:22	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:22	67001	STHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/3/2024 10:22	67002	STHI_T2	0	0	0	0	0	0	1.18	1.15	0	0	0	0	0	0
4/3/2024 10:22	57401	SPAN_T1	0	2	2	0	0.55	0.55	-1.36	-1	2	2	0	1200	1200	0
4/3/2024 10:23	66504	SMAN_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
4/3/2024 10:24	67402	WAKE_T2	0	0	0	0	0	0	0.44	0.43	1	1	0	600	600	0
4/3/2024 10:25	26001	WDAM_T1	1	1	0	0.4	0.1	-0.3	-0.33	-0.32	0	0	0	0	0	0
4/3/2024 10:25	10801	CHHI_T1	0	0	0	0	0	0	-0.78	-0.77	1	1	0	900	900	0
4/3/2024 10:25	26002	WDAM_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:26	52503	PROG_T2	0	679	679	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:26	46206	DANV_T2	0	0	0	0	0	0	1.93	1.96	1	1	0	1200	1200	0
4/3/2024 10:26	46203	DANV_T2	4	12	8	0.13	0.16	0.03	0	0	0	0	0	0	0	0
4/3/2024 10:26	52502	PROG_T2	0	1	1	0	0	0	-0.55	-0.09	1	1	0	900	900	0
4/3/2024 10:27	52502	PROG_T2	0	1	1	0	0	0	-0.55	-0.09	1	1	0	900	900	0
4/3/2024 10:27	46203	DANV_T2	4	12	8	0.13	0.16	0.03	-0.9	-0.88	0	0	0	0	0	0
4/3/2024 10:27	65001	NEFF_T2	0	0	0	0	0	0	-0.5	-0.43	1	1	0	1200	1200	0
4/3/2024 10:27	40101	HUNT_T2	10	28	18	0.22	0.45	0.23	-0.51	-0.54	0	0	0	0	0	0
4/3/2024 10:27	46206	DANV_T2	0	0	0	0	0	0	1.93	1.96	1	1	0	1200	1200	0
4/3/2024 10:27	52503	PROG_T2	0	679	679	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:28	52502	PROG_T2	0	1	1	0	0	0	-2.21	-0.37	4	4	0	3600	3600	0
4/3/2024 10:28	52503	PROG_T2	0	679	679	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:29	26401	INOR_T1	0	0	0	0	0	0	1.06	1.01	0	0	0	0	0	0
4/3/2024 10:29	52402	GRPA_T2	1	3	2	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
4/3/2024 10:29	45003	LIME_2	1	1	0	2.6	3.2	0.6	0	0	1	1	0	1200	1200	0
4/3/2024 10:29	52502	PROG_T2	0	1	1	0	0	0	-3.31	-0.56	6	6	0	5400	5400	0
4/3/2024 10:29	52503	PROG_T2	0	679	679	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:29	52404	GRPA_T2	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
4/3/2024 10:29	52403	GRPA_T2	3	3	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/3/2024 10:30	52502	PROG_T2	0	0	0	0	0	0	-0.55	-0.09	1	1	0	900	900	0
4/3/2024 10:30	40101	HUNT_T2	11	32	21	0.46	0.23	-0.23	-0.51	-0.54	0	0	0	0	0	0
4/3/2024 10:30	52503	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:31	52502	PROG_T2	0	0	0	0	0	0	-1.65	-0.28	3	3	0	2700	2700	0
4/3/2024 10:31	57304	MOAL_T2	0	1	1	0	0.1	0.1	-0.32	-0.32	0	0	0	0	0	0
4/3/2024 10:31	52503	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:31	57303	MOAL_T2	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
4/3/2024 10:32	57304	MOAL_T2	0	1	1	0	0.1	0.1	-0.32	-0.32	0	0	0	0	0	0
4/3/2024 10:32	57303	MOAL_T2	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
4/3/2024 10:32	16402	MOPO_T1	0	0	0	0	0	0	0.09	0.21	0	0	0	0	0	0
4/3/2024 10:33	52502	PROG_T2	0	0	0	0	0	0	-0.55	-0.09	1	1	0	900	900	0
4/3/2024 10:33	52503	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 10:33	42903	MIDD_T2	0	0	0	0	0	0	0.88	0.69	1	1	0	1200	1200	0
4/3/2024 10:33	12701	MACU_T1	0	2	2	0	0.55	0.55	0.18	0.15	0	0	0	0	0	0
4/3/2024 10:34	58402	MORO_T1	0	0	0	0	0	0	-0.83	-0.84	3	3	0	2400	2400	0
4/3/2024 10:34	64801	MONE_T2	0	380	380	0	3.23	3.23	0	0	0	0	0	0	0	0
4/3/2024 10:34	64802	MONE_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
4/3/2024 10:37	57403	SPAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/3/2024 10:37	57401	SPAN_T1	2	2	0	0.45	0.55	0.1	-0.5	-0.51	1	1	0	600	600	0
4/3/2024 10:38	56501	ROCK_T2	3	7	4	0.1	0.23	0.13	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 10:38	56803	BENV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/3/2024 10:38	56802	BENV_T2	13	70	57	0.13	0.17	0.04	-2.47	-2.47	0	0	0	0	0	0
4/3/2024 10:38	56801	BENV_T1	16	16	0	1.18	0.84	-0.34	-0.7	-0.71	1	1	0	600	600	0
4/3/2024 10:42	10805	CHHI_T2	1	1	0	8	8	0	-1.53	-1.47	0	0	0	0	0	0
4/3/2024 10:43	61801	EELI_T2	0	0	0	0	0	0	-0.78	-0.8	1	1	0	600	600	0
4/3/2024 10:43	41801	GOCI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/3/2024 10:43	56801	BENV_T1	16	16	0	1.18	0.84	-0.34	-0.7	-0.71	1	1	0	600	600	0
4/3/2024 10:43	56803	BENV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/3/2024 10:44	40101	HUNT_T2	11	32	21	0.46	0.23	-0.23	-0.54	-0.58	0	0	0	0	0	0
4/3/2024 10:45	46801	HEPB_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
4/3/2024 10:46	59302	MCAL_T1	0	0	0	0	0	0	-0.41	-0.37	1	1	0	600	600	0
4/3/2024 10:46	59301	MCAL_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/3/2024 10:49	65901	SAKR_T2	1	1	0	8.6	8.4	-0.2	-2.29	-1.94	2	2	0	1800	1800	0
4/3/2024 10:49	13302	ORVI_T2	0	0	0	0	0	0	1.41	1.44	0	0	0	0	0	0
4/3/2024 10:51	45402	WILO_T2	0	7	7	0	0.2	0.2	-1.49	-1.4	0	0	0	0	0	0
4/3/2024 10:52	64203	KINZ_T1	0	0	0	0	0	0	0.59	0.38	1	1	0	600	600	0
4/3/2024 10:52	64204	KINZ_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
4/3/2024 10:56	53601	DALM_T2	0	1	1	0	0.2	0.2	-0.8	-0.59	1	1	0	900	900	0
4/3/2024 10:57	53601	DALM_T2	0	1	1	0	0.2	0.2	-1.61	-1.18	2	2	0	1800	1800	0
4/3/2024 11:01	64303	LINC_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
4/3/2024 11:04	60803	BUCK_T1	0	0	0	0	0	0	-0.49	-0.51	1	1	0	600	600	0
4/3/2024 11:04	56501	ROCK_T2	6	6	0	0.18	0.23	0.05	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 11:04	60801	BUCK_T1	0	16	16	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 11:04	64305	LINC_T1	0	0	0	0	0	0	0.03	-0.08	0	0	0	0	0	0
4/3/2024 11:06	60801	BUCK_T1	0	16	16	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 11:06	60803	BUCK_T1	0	0	0	0	0	0	-0.49	-0.51	1	1	0	600	600	0
4/3/2024 11:07	59101	WALK_T2	1	0	-1	0.3	0	-0.3	6.99	6.05	3	3	0	1800	1800	0
4/3/2024 11:07	55105	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 11:08	66703	STRA_T1	0	57	57	0	0.9	0.9	0	0.06	0	0	0	0	0	0
4/3/2024 11:09	44301	BEAV_T2	1	1	0	0.9	0	-0.9	0.17	0.28	2	2	0	1500	1500	0
4/3/2024 11:09	56501	ROCK_T2	6	6	0	0.18	0.23	0.05	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 11:09	65802	RTWN_T2	0	93	93	0	0.31	0.31	-0.58	-0.49	0	0	0	0	0	0
4/3/2024 11:10	20403	ASHF_T2	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
4/3/2024 11:12	20403	ASHF_T2	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
4/3/2024 11:14	61801	EELI_T2	0	0	0	0	0	0	-1.6	-1.68	2	2	0	1200	1200	0
4/3/2024 11:14	64702	LITI_T2	0	0	0	0	0	0	-0.78	-0.69	0	0	0	0	0	0
4/3/2024 11:15	64305	LINC_T1	0	0	0	0	0	0	-0.08	-0.02	0	0	0	0	0	0
4/3/2024 11:18	67001	STHI_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/3/2024 11:18	59402	RFLD_T2	0	0	0	0	0	0	-0.77	-0.8	1	1	0	450	450	0
4/3/2024 11:18	67002	STHI_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
4/3/2024 11:18	64702	LITI_T2	0	0	0	0	0	0	-1.56	-1.38	0	0	0	0	0	0
4/3/2024 11:20	65901	SAKR_T2	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
4/3/2024 11:20	56501	ROCK_T2	6	5	-1	0.22	0.2	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 11:20	64305	LINC_T1	0	0	0	0	0	0	-0.08	-0.02	0	0	0	0	0	0
4/3/2024 11:20	65902	SAKR_T2	0	0	0	0	0	0	-0.17	-0.15	1	1	0	300	300	0
4/3/2024 11:20	45602	WOOL_T1	3	0	-3	0.7	0	-0.7	0.62	0.6	0	0	0	0	0	0
4/3/2024 11:20	67002	STHI_T2	0	0	0	0	0	0	2.43	2.39	0	0	0	0	0	0
4/3/2024 11:20	67001	STHI_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/3/2024 11:22	44301	BEAV_T2	0	2	2	0	1.6	1.6	0.33	0.55	4	4	0	3000	3000	0
4/3/2024 11:22	67001	STHI_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/3/2024 11:22	45602	WOOL_T1	3	0	-3	0.7	0	-0.7	0.62	0.6	0	0	0	0	0	0
4/3/2024 11:22	60605	NCOL_T2	0	8	8	0	0.2	0.2	0	0	0	0	0	0	0	0
4/3/2024 11:22	43202	MVIL_T2	1	4	3	0.3	0.15	-0.15	-0.54	-0.51	0	0	0	0	0	0
4/3/2024 11:22	67002	STHI_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
4/3/2024 11:23	67002	STHI_T2	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
4/3/2024 11:23	59101	WALK_T2	0	0	0	0	0	0	1.37	1.74	1	1	0	600	600	0
4/3/2024 11:23	67001	STHI_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/3/2024 11:25	67605	WARW_T1	0	4	4	0	0.35	0.35	-0.92	-0.96	0	0	0	0	0	0
4/3/2024 11:25	44301	BEAV_T2	0	2	2	0	1.6	1.6	0.83	1.09	6	6	0	4500	4500	0
4/3/2024 11:25	56501	ROCK_T2	6	5	-1	0.22	0.2	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 11:26	45602	WOOL_T1	3	0	-3	0.7	0	-0.7	1.21	1.3	0	0	0	0	0	0
4/3/2024 11:27	45602	WOOL_T1	3	0	-3	0.7	0	-0.7	0.6	0.65	0	0	0	0	0	0
4/3/2024 11:28	53901	HALI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/3/2024 11:28	40101	HUNT_T2	6	16	10	0.28	0.2	-0.08	-0.54	-0.6	0	0	0	0	0	0
4/3/2024 11:28	53902	HALI_T2	1	1	0	4.6	5.1	0.5	0	0	0	0	0	0	0	0
4/3/2024 11:28	53903	HALI_T2	2	2	0	0.6	0.8	0.2	-0.13	-0.14	0	0	0	0	0	0
4/3/2024 11:30	53901	HALI_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/3/2024 11:30	42902	MIDD_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/3/2024 11:30	53903	HALI_T2	2	2	0	0.5	1	0.5	-0.13	-0.14	0	0	0	0	0	0
4/3/2024 11:30	42903	MIDD_T2	0	0	0	0	0	0	0.64	0.58	1	1	0	1200	1200	0
4/3/2024 11:30	40101	HUNT_T2	15	2	-13	0.32	1.1	0.78	-0.54	-0.6	0	0	0	0	0	0
4/3/2024 11:30	53902	HALI_T2	1	1	0	4.7	5.3	0.6	0	0	0	0	0	0	0	0
4/3/2024 11:31	64303	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 11:31	53902	HALI_T2	1	1	0	4.7	5.3	0.6	0	0	0	0	0	0	0	0
4/3/2024 11:31	53901	HALI_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/3/2024 11:31	64305	LINC_T1	0	0	0	0	0	0	-0.02	-0.14	0	0	0	0	0	0
4/3/2024 11:31	53903	HALI_T2	2	2	0	0.5	1	0.5	-0.13	-0.14	0	0	0	0	0	0
4/3/2024 11:32	27101	GFLD_T2	0	1380	1380	0	8.6	8.6	0	0	1	1	0	600	600	0
4/3/2024 11:33	41901	REED_T1	0	9	9	0	0.4	0.4	0	0	0	0	0	0	0	0
4/3/2024 11:33	41902	REED_T1	0	0	0	0	0	0	1.16	1.17	0	0	0	0	0	0
4/3/2024 11:33	65001	NEFF_T2	0	0	0	0	0	0	-0.49	-0.52	1	1	0	1200	1200	0
4/3/2024 11:34	67201	TEHI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/3/2024 11:34	41901	REED_T1	0	9	9	0	0.4	0.4	0	0	0	0	0	0	0	0
4/3/2024 11:34	64202	KINZ_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/3/2024 11:34	67203	TEHI_T1	3	0	-3	0.3	0	-0.3	2.78	2.47	2	2	0	1200	1200	0
4/3/2024 11:34	64201	KINZ_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
4/3/2024 11:34	59402	RFLD_T2	0	0	0	0	0	0	-0.8	-0.82	1	1	0	450	450	0
4/3/2024 11:34	41902	REED_T1	0	0	0	0	0	0	1.16	1.17	0	0	0	0	0	0
4/3/2024 11:34	64204	KINZ_T1	1	7	6	0.8	4.34	3.54	0	0	0	0	0	0	0	0
4/3/2024 11:34	67204	TEHI_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
4/3/2024 11:34	64203	KINZ_T1	0	0	0	0	0	0	-0.08	-0.02	1	1	0	600	600	0
4/3/2024 11:35	56501	ROCK_T2	5	9	4	0.2	0.32	0.12	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 11:36	64305	LINC_T1	0	0	0	0	0	0	-0.02	-0.14	0	0	0	0	0	0
4/3/2024 11:36	64303	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 11:36	67502	WEWI_T2	0	0	0	0	0	0	-1.03	-1	1	1	0	900	900	0
4/3/2024 11:36	41902	REED_T1	0	0	0	0	0	0	1.16	1.17	0	0	0	0	0	0
4/3/2024 11:36	56501	ROCK_T2	5	9	4	0.2	0.32	0.12	-0.03	-0.03	0	0	0	0	0	0
4/3/2024 11:36	67203	TEHI_T1	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/3/2024 11:36	41901	REED_T1	0	9	9	0	0.4	0.4	0	0	0	0	0	0	0	0
4/3/2024 11:36	67201	TEHI_T1	1	1	0	0.1	0.2	0.1	0.65	0.51	0	0	0	0	0	0
4/3/2024 11:37	56501	ROCK_T2	5	9	4	0.2	0.32	0.12	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 11:37	61102	BERK_T5	0	17	17	0	0.78	0.78	0	0	0	0	0	0	0	0
4/3/2024 11:37	20401	ASHF_T2	0	11	11	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 11:37	67502	WEWI_T2	0	0	0	0	0	0	-1.03	-1	1	1	0	900	900	0
4/3/2024 11:37	20402	ASHF_T2	0	55	55	0	6.86	6.86	0	0	0	0	0	0	0	0
4/3/2024 11:37	61101	BERK_T5	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 11:37	20403	ASHF_T2	0	65	65	0	1.99	1.99	0.36	0.33	0	0	0	0	0	0
4/3/2024 11:37	61103	BERK_T5	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
4/3/2024 11:38	61101	BERK_T5	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 11:38	20401	ASHF_T2	0	11	11	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/3/2024 11:38	27502	WEIS_T2	0	371	371	0	0	0	0.29	0.19	0	0	0	0	0	0
4/3/2024 11:38	20402	ASHF_T2	0	55	55	0	6.86	6.86	0	0	0	0	0	0	0	0
4/3/2024 11:38	67204	TEHI_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
4/3/2024 11:38	61102	BERK_T5	0	17	17	0	0.78	0.78	0.37	0.59	1	1	0	300	300	0
4/3/2024 11:38	27503	WEIS_T2	0	808	808	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 11:38	61103	BERK_T5	0	0	0	0	0	0	0.05	0.14	0	0	0	0	0	0
4/3/2024 11:38	20403	ASHF_T2	0	65	65	0	1.99	1.99	0.33	0.36	0	0	0	0	0	0
4/3/2024 11:39	64204	KINZ_T1	1	7	6	0.8	4.34	3.54	0	0	0	0	0	0	0	0
4/3/2024 11:39	64202	KINZ_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/3/2024 11:39	64201	KINZ_T1	0	5	5	0	0.14	0.14	-0.64	-0.3	3	2	-1	1500	1200	-300
4/3/2024 11:39	59101	WALK_T2	0	0	0	0	0	0	1.74	2.16	1	0	-1	600	0	-600
4/3/2024 11:39	56501	ROCK_T2	5	9	4	0.2	0.32	0.12	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 11:40	61101	BERK_T5	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 11:40	61103	BERK_T5	0	0	0	0	0	0	0.05	0.14	0	0	0	0	0	0
4/3/2024 11:40	61102	BERK_T5	0	17	17	0	0.78	0.78	0	0	0	0	0	0	0	0
4/3/2024 11:41	45501	DERR_T2	0	0	0	0	0	0	0.76	0.67	2	2	0	1800	1800	0
4/3/2024 11:41	56501	ROCK_T2	5	9	4	0.2	0.32	0.12	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 11:42	56501	ROCK_T2	5	9	4	0.2	0.32	0.12	-0.02	-0.02	0	0	0	0	0	0
4/3/2024 11:44	64204	KINZ_T1	1	7	6	0.8	4.34	3.54	0	0	0	0	0	0	0	0
4/3/2024 11:44	64201	KINZ_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
4/3/2024 11:44	63602	LETO_T1	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
4/3/2024 11:44	64202	KINZ_T1	2	2	0	0.2	0.3	0.1	0.81	0.81	0	0	0	0	0	0
4/3/2024 11:44	59302	MCAL_T1	0	0	0	0	0	0	-0.31	-0.35	1	1	0	600	600	0
4/3/2024 11:44	56501	ROCK_T2	5	9	4	0.2	0.32	0.12	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 11:45	56501	ROCK_T2	2	10	8	0.35	0.33	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 11:47	42903	MIDD_T2	0	2	2	0	1.25	1.25	0.58	0.51	1	1	0	1200	1200	0
4/3/2024 11:47	64305	LINC_T1	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
4/3/2024 11:47	42902	MIDD_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/3/2024 11:48	41902	REED_T1	0	0	0	0	0	0	1.17	1.14	0	0	0	0	0	0
4/3/2024 11:48	45702	LIND_T2	1	1	0	0.2	1	0.8	-0.31	-0.33	0	0	0	0	0	0
4/3/2024 11:48	46302	ROHR_T1	4	4	0	1.28	2.2	0.92	0.23	0.21	0	0	0	0	0	0
4/3/2024 11:48	52403	GRPA_T2	0	0	0	0	0	0	0.02	0.09	0	0	0	0	0	0
4/3/2024 11:48	41901	REED_T1	1	9	8	0.1	0.47	0.37	0	0	0	0	0	0	0	0
4/3/2024 11:48	46301	ROHR_T1	0	70	70	0	0.22	0.22	0	0	0	0	0	0	0	0
4/3/2024 11:48	64303	LINC_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
4/3/2024 11:49	67001	STHI_T2	2	162	160	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
4/3/2024 11:49	52503	PROG_T2	2	0	-2	0.25	0	-0.25	0.29	0.24	0	0	0	0	0	0
4/3/2024 11:49	67002	STHI_T2	0	18	18	0	0.13	0.13	0.63	0.63	0	0	0	0	0	0
4/3/2024 11:50	41901	REED_T1	1	9	8	0.1	0.47	0.37	0	0	0	0	0	0	0	0
4/3/2024 11:50	24901	WHHA_T1	0	10	10	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 11:50	67002	STHI_T2	0	18	18	0	0.13	0.13	0.63	0.63	0	0	0	0	0	0
4/3/2024 11:50	24902	WHHA_T1	4	395	391	1.33	0	-1.33	0	0	0	0	0	0	0	0
4/3/2024 11:50	67203	TEHI_T1	0	0	0	0	0	0	2.47	2.28	2	2	0	1200	1200	0
4/3/2024 11:50	67201	TEHI_T1	0	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0
4/3/2024 11:50	41902	REED_T1	0	0	0	0	0	0	1.17	1.14	0	0	0	0	0	0
4/3/2024 11:50	67001	STHI_T2	2	162	160	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
4/3/2024 11:51	64305	LINC_T1	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
4/3/2024 11:51	41901	REED_T1	1	9	8	0.1	0.47	0.37	0	0	0	0	0	0	0	0
4/3/2024 11:51	54206	PENN_T2	0	0	0	0	0	0	-0.38	-0.36	0	0	0	0	0	0
4/3/2024 11:51	67002	STHI_T2	0	18	18	0	0.13	0.13	0.63	0.63	0	0	0	0	0	0
4/3/2024 11:51	41902	REED_T1	0	0	0	0	0	0	1.17	1.14	0	0	0	0	0	0
4/3/2024 11:51	67001	STHI_T2	2	162	160	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
4/3/2024 11:51	56501	ROCK_T2	2	10	8	0.35	0.33	-0.02	-0.03	-0.03	0	0	0	0	0	0
4/3/2024 11:52	67002	STHI_T2	0	18	18	0	0.13	0.13	0.63	0.63	0	0	0	0	0	0
4/3/2024 11:52	67001	STHI_T2	2	162	160	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
4/3/2024 11:52	14801	TREI_T2	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
4/3/2024 11:52	67201	TEHI_T1	0	3	3	0	0.7	0.7	0.51	0.39	0	0	0	0	0	0
4/3/2024 11:52	56501	ROCK_T2	2	10	8	0.35	0.33	-0.02	-0.03	-0.03	0	0	0	0	0	0
4/3/2024 11:53	42701	AUGU_T1	0	1	1	0	0.5	0.5	0	0	6	6	0	5400	5400	0
4/3/2024 11:53	46301	ROHR_T1	0	70	70	0	0.22	0.22	0	0	0	0	0	0	0	0
4/3/2024 11:53	60701	BREC_T1	37	19	-18	0.58	0.23	-0.35	-0.41	-0.38	1	1	0	600	600	0
4/3/2024 11:53	56501	ROCK_T2	2	10	8	0.35	0.33	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 11:53	46302	ROHR_T1	4	4	0	1.28	2.2	0.92	0.21	0.22	0	0	0	0	0	0
4/3/2024 11:53	67002	STHI_T2	0	18	18	0	0.13	0.13	0.63	0.61	0	0	0	0	0	0
4/3/2024 11:53	67001	STHI_T2	2	162	160	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
4/3/2024 11:54	56501	ROCK_T2	2	10	8	0.35	0.33	-0.02	-0.02	-0.02	0	0	0	0	0	0
4/3/2024 11:55	42701	AUGU_T1	0	1	1	0	0.5	0.5	0	0	2	2	0	1800	1800	0
4/3/2024 11:55	61103	BERK_T5	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
4/3/2024 11:55	61102	BERK_T5	16	1	-15	0.82	0.1	-0.72	0	0	0	0	0	0	0	0
4/3/2024 11:55	60701	BREC_T1	37	19	-18	0.58	0.23	-0.35	-0.41	-0.38	1	1	0	600	600	0
4/3/2024 11:56	56501	ROCK_T2	2	10	8	0.35	0.33	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 11:56	45501	DERR_T2	0	0	0	0	0	0	0.67	0.7	2	2	0	1800	1800	0
4/3/2024 11:56	60701	BREC_T1	37	19	-18	0.58	0.23	-0.35	-0.41	-0.38	1	1	0	600	600	0
4/3/2024 11:56	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
4/3/2024 11:57	11805	FRAN_T1	0	0	0	0	0	0	-1.2	-1.18	1	1	0	1200	1200	0
4/3/2024 11:57	54501	ENOL_T2	0	0	0	0	0	0	-0.49	-0.52	1	1	0	600	600	0
4/3/2024 11:57	53902	HALI_T2	1	1	0	5.1	5.4	0.3	0	0	0	0	0	0	0	0
4/3/2024 11:57	53903	HALI_T2	2	2	0	0.8	1.2	0.4	-0.12	-0.14	0	0	0	0	0	0
4/3/2024 11:57	53901	HALI_T2	2	1	-1	0.25	0.6	0.35	0	0	0	0	0	0	0	0
4/3/2024 11:58	45003	LIME_2	1	1	0	3.1	3.5	0.4	0	0	1	1	0	1200	1200	0
4/3/2024 11:58	61103	BERK_T5	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
4/3/2024 11:58	45001	LIME_2	0	56	56	0	0.18	0.18	0	0	0	0	0	0	0	0
4/3/2024 11:58	61102	BERK_T5	16	1	-15	0.82	0.1	-0.72	0	0	0	0	0	0	0	0
4/3/2024 11:58	52202	DEVO_T2	0	0	0	0	0	0	-0.78	-0.75	0	0	0	0	0	0
4/3/2024 11:59	61103	BERK_T5	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
4/3/2024 11:59	61102	BERK_T5	16	1	-15	0.82	0.1	-0.72	0	0	0	0	0	0	0	0
4/3/2024 12:00	64702	LITI_T2	0	0	0	0	0	0	-1.55	-1.49	0	0	0	0	0	0
4/3/2024 12:00	59302	MCAL_T1	0	0	0	0	0	0	-0.35	-0.45	1	1	0	600	600	0
4/3/2024 12:00	59301	MCAL_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/3/2024 12:01	64702	LITI_T2	0	0	0	0	0	0	-0.78	-0.75	0	0	0	0	0	0
4/3/2024 12:02	42903	MIDD_T2	0	2	2	0	1.25	1.25	0.51	0.21	1	1	0	1200	1200	0
4/3/2024 12:02	64305	LINC_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
4/3/2024 12:02	42902	MIDD_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/3/2024 12:03	64303	LINC_T1	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
4/3/2024 12:04	67001	STHI_T2	62	187	125	0.11	0.12	0.01	0	0	0	0	0	0	0	0
4/3/2024 12:04	67002	STHI_T2	8	18	10	0.13	0.14	0.01	0.63	0.61	0	0	0	0	0	0
4/3/2024 12:05	67001	STHI_T2	62	187	125	0.11	0.12	0.01	0	0	0	0	0	0	0	0
4/3/2024 12:05	67002	STHI_T2	8	18	10	0.13	0.14	0.01	0.63	0.61	0	0	0	0	0	0
4/3/2024 12:06	67002	STHI_T2	8	18	10	0.13	0.14	0.01	0.63	0.61	0	0	0	0	0	0
4/3/2024 12:06	67001	STHI_T2	62	187	125	0.11	0.12	0.01	0	0	0	0	0	0	0	0
4/3/2024 12:07	67001	STHI_T2	62	187	125	0.11	0.12	0.01	0	0	0	0	0	0	0	0
4/3/2024 12:07	67002	STHI_T2	8	18	10	0.13	0.14	0.01	1.89	1.82	0	0	0	0	0	0
4/3/2024 12:08	64305	LINC_T1	0	0	0	0	0	0	-0.14	-0.2	0	0	0	0	0	0
4/3/2024 12:08	67002	STHI_T2	8	18	10	0.13	0.14	0.01	1.21	1.22	0	0	0	0	0	0
4/3/2024 12:08	67001	STHI_T2	62	187	125	0.11	0.12	0.01	0	0	0	0	0	0	0	0
4/3/2024 12:09	61102	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/3/2024 12:09	61103	BERK_T5	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
4/3/2024 12:09	67002	STHI_T2	8	18	10	0.13	0.14	0.01	0.61	0.61	0	0	0	0	0	0
4/3/2024 12:09	67001	STHI_T2	62	187	125	0.11	0.12	0.01	0	0	0	0	0	0	0	0
4/3/2024 12:11	67002	STHI_T2	8	18	10	0.13	0.14	0.01	0.61	0.61	0	0	0	0	0	0
4/3/2024 12:11	61103	BERK_T5	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
4/3/2024 12:11	61102	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/3/2024 12:11	67001	STHI_T2	62	187	125	0.11	0.12	0.01	0	0	0	0	0	0	0	0
4/3/2024 12:12	50103	HARR_T3	2	2	0	0.65	0.75	0.1	-1	-1.02	1	1	0	1200	1200	0
4/3/2024 12:12	63801	HEMP_T1	0	0	0	0	0	0	-0.23	0.09	1	0	-1	900	0	-900
4/3/2024 12:12	50201	HARR_T3	1	1	0	8.8	9.1	0.3	0	0	0	0	0	0	0	0
4/3/2024 12:12	50105	HARR_T3	8	8	0	6.69	6.6	-0.09	0	0	0	0	0	0	0	0
4/3/2024 12:12	50106	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 12:12	63804	HEMP_T1	1	1	0	7.2	6.6	-0.6	0	0	0	0	0	0	0	0
4/3/2024 12:14	61103	BERK_T5	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
4/3/2024 12:14	61102	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/3/2024 12:14	64303	LINC_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
4/3/2024 12:17	50103	HARR_T3	2	2	0	0.75	0.85	0.1	-1	-1.02	1	1	0	1200	1200	0
4/3/2024 12:17	50106	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 12:17	50201	HARR_T3	1	1	0	9.1	9.4	0.3	0	0	0	0	0	0	0	0
4/3/2024 12:17	50105	HARR_T3	8	8	0	6.71	6.59	-0.12	0	0	0	0	0	0	0	0
4/3/2024 12:18	64305	LINC_T1	0	0	0	0	0	0	-0.14	-0.2	0	0	0	0	0	0
4/3/2024 12:22	67002	STHI_T2	16	13	-3	0.13	0.12	-0.01	0.61	0.61	0	0	0	0	0	0
4/3/2024 12:22	67001	STHI_T2	157	143	-14	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
4/3/2024 12:22	60701	BREC_T1	6	106	100	0.25	0.21	-0.04	-0.38	-0.36	1	1	0	600	600	0
4/3/2024 12:23	64305	LINC_T1	0	0	0	0	0	0	-0.2	-0.12	0	0	0	0	0	0
4/3/2024 12:23	67001	STHI_T2	157	143	-14	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
4/3/2024 12:23	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/3/2024 12:23	67002	STHI_T2	16	13	-3	0.13	0.12	-0.01	0.61	0.68	0	0	0	0	0	0
4/3/2024 12:24	60701	BREC_T1	6	106	100	0.25	0.21	-0.04	-0.36	-0.38	1	1	0	600	600	0
4/3/2024 12:24	42701	AUGU_T1	1	1	0	0.4	0.8	0.4	0	0	4	4	0	3600	3600	0
4/3/2024 12:24	67502	WEWI_T2	0	0	0	0	0	0	-2.32	-2.23	2	2	0	1800	1800	0
4/3/2024 12:25	42701	AUGU_T1	1	1	0	0.4	0.8	0.4	0	0	2	2	0	1800	1800	0
4/3/2024 12:26	42701	AUGU_T1	1	1	0	0.4	0.8	0.4	0	0	2	2	0	1800	1800	0
4/3/2024 12:26	54501	ENOL_T2	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
4/3/2024 12:26	54502	ENOL_T2	0	0	0	0	0	0	-1.15	-1.12	1	1	0	600	600	0
4/3/2024 12:27	54505	ENOL_T2	0	0	0	0	0	0	-1.15	-1.1	1	1	0	600	600	0
4/3/2024 12:28	54503	ENOL_T2	0	0	0	0	0	0	-3.66	-3.68	2	2	0	1200	1200	0
4/3/2024 12:30	52202	DEVO_T2	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
4/3/2024 12:30	54504	ENOL_T2	0	0	0	0	0	0	-0.99	-0.98	1	1	0	600	600	0
4/3/2024 12:30	54503	ENOL_T2	0	0	0	0	0	0	-1.83	-1.84	1	1	0	600	600	0
4/3/2024 12:30	45003	LIME_2	1	1	0	3	3.2	0.2	0	0	1	1	0	1200	1200	0
4/3/2024 12:30	45001	LIME_2	43	74	31	0.19	0.2	0.01	0	0	0	0	0	0	0	0
4/3/2024 12:31	40101	HUNT_T2	0	3	3	0	1.1	1.1	-1.15	-1.2	0	0	0	0	0	0
4/3/2024 12:31	54502	ENOL_T2	0	0	0	0	0	0	-1.15	-1.12	1	1	0	600	600	0
4/3/2024 12:32	40101	HUNT_T2	0	3	3	0	1.1	1.1	-1.15	-1.2	0	0	0	0	0	0
4/3/2024 12:33	64305	LINC_T1	0	0	0	0	0	0	-0.2	-0.12	0	0	0	0	0	0
4/3/2024 12:33	41901	REED_T1	8	8	0	0.44	0.33	-0.11	0	0	0	0	0	0	0	0
4/3/2024 12:33	41902	REED_T1	0	0	0	0	0	0	1.19	1.15	0	0	0	0	0	0
4/3/2024 12:34	40101	HUNT_T2	0	3	3	0	1.1	1.1	-0.58	-0.6	0	0	0	0	0	0
4/3/2024 12:34	54203	PENN_T1	22	20	-2	0.69	0.75	0.06	0	0	0	0	0	0	0	0
4/3/2024 12:34	54201	PENN_T1	113	113	0	0.39	0.36	-0.03	-1.22	-1.23	0	0	0	0	0	0
4/3/2024 12:34	54205	PENN_T1	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/3/2024 12:36	41902	REED_T1	0	0	0	0	0	0	1.19	1.15	0	0	0	0	0	0
4/3/2024 12:36	41901	REED_T1	8	8	0	0.44	0.33	-0.11	0	0	0	0	0	0	0	0
4/3/2024 12:37	41901	REED_T1	8	8	0	0.44	0.33	-0.11	0	0	0	0	0	0	0	0
4/3/2024 12:37	41902	REED_T1	0	0	0	0	0	0	1.19	1.15	0	0	0	0	0	0
4/3/2024 12:38	54203	PENN_T1	22	20	-2	0.69	0.75	0.06	0.2	0.22	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/3/2024 12:38	54201	PENN_T1	113	113	0	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
4/3/2024 12:38	57104	SPHI_T2	2	2	0	2.65	4	1.35	0	0	0	0	0	0	0	0
4/3/2024 12:38	51002	NHAR_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
4/3/2024 12:38	51003	NHAR_T1	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
4/3/2024 12:38	57106	SPHI_T2	3	3	0	1.57	1.6	0.03	0	0	0	0	0	0	0	0
4/3/2024 12:38	57101	SPHI_T2	4	6	2	0.3	0.47	0.17	0	0	0	0	0	0	0	0
4/3/2024 12:38	54205	PENN_T1	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/3/2024 12:38	51004	NHAR_T1	13	13	0	1.11	0.92	-0.19	-0.38	-0.37	0	0	0	0	0	0
4/3/2024 12:38	57103	SPHI_T2	0	0	0	0	0	0	-0.86	-0.89	1	1	0	600	600	0
4/3/2024 12:39	64305	LINC_T1	0	0	0	0	0	0	-0.12	-0.07	0	0	0	0	0	0
4/3/2024 12:42	46004	BERW_T2	0	171	171	0	0	0	-0.66	-0.66	0	0	0	0	0	0
4/3/2024 12:46	65001	NEFF_T2	0	0	0	0	0	0	-0.57	-0.44	1	1	0	1200	1200	0
4/3/2024 12:51	56501	ROCK_T2	11	30	19	0.31	0.17	-0.14	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 12:52	56501	ROCK_T2	11	30	19	0.31	0.17	-0.14	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 12:52	59101	WALK_T2	0	0	0	0	0	0	5.37	4.9	0	0	0	0	0	0
4/3/2024 12:53	59101	WALK_T2	0	0	0	0	0	0	1.63	1.39	0	0	0	0	0	0
4/3/2024 12:54	15001	BLMO_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/3/2024 12:54	56501	ROCK_T2	11	30	19	0.31	0.17	-0.14	-0.02	-0.02	0	0	0	0	0	0
4/3/2024 12:55	56501	ROCK_T2	11	30	19	0.31	0.17	-0.14	-0.02	-0.02	0	0	0	0	0	0
4/3/2024 12:56	56501	ROCK_T2	11	30	19	0.31	0.17	-0.14	-0.02	-0.02	0	0	0	0	0	0
4/3/2024 13:02	40601	PIGR_T1	0	117	117	0	0.55	0.55	0	0	0	0	0	0	0	0
4/3/2024 13:02	40602	PIGR_T1	1	1	0	3.6	1.2	-2.4	-0.35	-0.34	1	1	0	600	600	0
4/3/2024 13:03	63602	LETO_T1	0	0	0	0	0	0	-0.25	-0.33	0	0	0	0	0	0
4/3/2024 13:03	41902	REED_T1	0	0	0	0	0	0	3.42	3.56	0	0	0	0	0	0
4/3/2024 13:03	41901	REED_T1	7	8	1	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
4/3/2024 13:04	41901	REED_T1	7	8	1	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
4/3/2024 13:04	40602	PIGR_T1	1	1	0	3.6	1.2	-2.4	-0.7	-0.68	2	2	0	1200	1200	0
4/3/2024 13:04	40601	PIGR_T1	0	117	117	0	0.55	0.55	0	0	0	0	0	0	0	0
4/3/2024 13:04	41902	REED_T1	0	0	0	0	0	0	1.14	1.19	0	0	0	0	0	0
4/3/2024 13:05	15603	NSTR_T2	0	0	0	0	0	0	-0.53	-0.49	0	0	0	0	0	0
4/3/2024 13:05	15601	NSTR_T2	319	188	-131	0.73	0.46	-0.27	0	0	0	0	0	0	0	0
4/3/2024 13:05	49803	UNIV_T1	0	0	0	0	0	0	-0.93	-0.97	0	0	0	0	0	0
4/3/2024 13:07	41901	REED_T1	7	8	1	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
4/3/2024 13:07	41902	REED_T1	0	0	0	0	0	0	2.28	2.37	0	0	0	0	0	0
4/3/2024 13:12	60101	COCA_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
4/3/2024 13:14	59301	MCAL_T1	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/3/2024 13:14	59302	MCAL_T1	0	0	0	0	0	0	-0.46	-0.49	1	1	0	600	600	0
4/3/2024 13:15	46004	BERW_T2	0	2	2	0	0	0	-0.46	-0.33	0	0	0	0	0	0
4/3/2024 13:16	46004	BERW_T2	0	2	2	0	0	0	-0.46	-0.33	0	0	0	0	0	0
4/3/2024 13:16	55105	WEST_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 13:18	41901	REED_T1	6	9	3	0.18	0.26	0.08	0	0	0	0	0	0	0	0
4/3/2024 13:18	41902	REED_T1	0	3	3	0	0	0	1.19	1.22	0	0	0	0	0	0
4/3/2024 13:19	41902	REED_T1	0	3	3	0	0	0	1.19	1.22	0	0	0	0	0	0
4/3/2024 13:19	41901	REED_T1	6	9	3	0.18	0.26	0.08	0	0	0	0	0	0	0	0
4/3/2024 13:20	41901	REED_T1	6	9	3	0.18	0.26	0.08	0	0	0	0	0	0	0	0
4/3/2024 13:20	41902	REED_T1	0	3	3	0	0	0	1.19	1.22	0	0	0	0	0	0
4/3/2024 13:23	14403	SSLA_T1	0	0	0	0	0	0	0.97	1.18	0	0	0	0	0	0
4/3/2024 13:23	14404	SSLA_T1	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
4/3/2024 13:25	15001	BLMO_T1	2	4	2	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/3/2024 13:26	15001	BLMO_T1	2	4	2	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/3/2024 13:27	46001	BERW_T1	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
4/3/2024 13:28	46001	BERW_T1	0	0	0	0	0	0	0.88	0.88	0	0	0	0	0	0
4/3/2024 13:30	64305	LINC_T1	0	0	0	0	0	0	-0.09	-0.06	0	0	0	0	0	0
4/3/2024 13:33	54201	PENN_T1	129	140	11	0.41	0.42	0.01	0	0	0	0	0	0	0	0
4/3/2024 13:33	54203	PENN_T1	19	40	21	0.81	0.48	-0.33	0.1	0.07	0	0	0	0	0	0
4/3/2024 13:33	54205	PENN_T1	17	20	3	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/3/2024 13:33	46001	BERW_T1	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
4/3/2024 13:35	64305	LINC_T1	0	0	0	0	0	0	-0.09	-0.06	0	0	0	0	0	0
4/3/2024 13:35	54205	PENN_T1	17	20	3	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/3/2024 13:35	54203	PENN_T1	19	40	21	0.81	0.48	-0.33	0	0	0	0	0	0	0	0
4/3/2024 13:35	54201	PENN_T1	129	140	11	0.41	0.42	0.01	-1.21	-1.22	0	0	0	0	0	0
4/3/2024 13:36	59402	RFLD_T2	0	0	0	0	0	0	-0.13	-0.19	1	1	0	450	450	0
4/3/2024 13:38	60101	COCA_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
4/3/2024 13:39	59101	WALK_T2	0	0	0	0	0	0	4.23	3.68	0	0	0	0	0	0
4/3/2024 13:39	56501	ROCK_T2	32	0	-32	0.16	0	-0.16	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 13:41	56501	ROCK_T2	32	0	-32	0.16	0	-0.16	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 13:42	56501	ROCK_T2	32	0	-32	0.16	0	-0.16	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 13:44	46001	BERW_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
4/3/2024 13:45	64305	LINC_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
4/3/2024 13:45	64204	KINZ_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
4/3/2024 13:45	64203	KINZ_T1	0	0	0	0	0	0	0.04	0.03	1	1	0	600	600	0
4/3/2024 13:45	64201	KINZ_T1	0	0	0	0	0	0	-0.67	-0.68	3	3	0	1500	1500	0
4/3/2024 13:47	56501	ROCK_T2	0	3	3	0	0.13	0.13	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 13:49	46001	BERW_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
4/3/2024 13:49	41902	REED_T1	3	0	-3	0.6	0	-0.6	1.15	1.14	0	0	0	0	0	0
4/3/2024 13:49	41901	REED_T1	7	8	1	0.23	0.39	0.16	0	0	0	0	0	0	0	0
4/3/2024 13:50	42802	SELI_T1	1	1	0	0.2	0.3	0.1	-1.62	-1.6	2	2	0	1800	1800	0
4/3/2024 13:50	41901	REED_T1	7	8	1	0.23	0.39	0.16	0	0	0	0	0	0	0	0
4/3/2024 13:50	41902	REED_T1	3	0	-3	0.6	0	-0.6	1.15	1.14	0	0	0	0	0	0
4/3/2024 13:50	64305	LINC_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
4/3/2024 13:52	25603	ARRO_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
4/3/2024 13:52	41901	REED_T1	7	8	1	0.23	0.39	0.16	0	0	0	0	0	0	0	0
4/3/2024 13:52	41902	REED_T1	3	0	-3	0.6	0	-0.6	1.15	1.14	0	0	0	0	0	0
4/3/2024 13:53	42701	AUGU_T1	1	1	0	0.2	0.3	0.1	0	0	2	2	0	1800	1800	0
4/3/2024 13:54	60101	COCA_T1	0	0	0	0	0	0	0.87	0.9	0	0	0	0	0	0
4/3/2024 13:55	42701	AUGU_T1	1	1	0	0.2	0.3	0.1	0	0	2	2	0	1800	1800	0
4/3/2024 13:55	60701	BREC_T1	0	0	0	0	0	0	-0.75	-0.73	2	2	0	1200	1200	0
4/3/2024 13:57	60701	BREC_T1	0	0	0	0	0	0	-0.37	-0.36	1	1	0	600	600	0
4/3/2024 13:57	25603	ARRO_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
4/3/2024 13:58	56501	ROCK_T2	0	3	3	0	0.13	0.13	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 13:58	54501	ENOL_T2	0	0	0	0	0	0	-0.5	-0.52	1	1	0	600	600	0
4/3/2024 13:59	60101	COCA_T1	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
4/3/2024 14:00	46001	BERW_T1	0	0	0	0	0	0	0.45	0.91	0	0	0	0	0	0
4/3/2024 14:00	14404	SSLA_T1	1	1	0	1.7	4.9	3.2	0	0	0	0	0	0	0	0
4/3/2024 14:00	59301	MCAL_T1	0	2	2	0	0.1	0.1	-1.53	-1.53	1	1	0	600	600	0
4/3/2024 14:00	14403	SSLA_T1	19	0	-19	0.4	0	-0.4	1.15	1	0	0	0	0	0	0
4/3/2024 14:01	59302	MCAL_T1	0	0	0	0	0	0	-0.43	-0.41	1	1	0	600	600	0
4/3/2024 14:01	64305	LINC_T1	0	0	0	0	0	0	-0.07	-0.01	0	0	0	0	0	0
4/3/2024 14:01	59301	MCAL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/3/2024 14:02	41902	REED_T1	0	1	1	0	0	0	1.14	1.17	0	0	0	0	0	0
4/3/2024 14:02	67002	STHI_T2	6	49	43	0.1	0.16	0.06	0.61	0.61	0	0	0	0	0	0
4/3/2024 14:02	41901	REED_T1	7	8	1	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
4/3/2024 14:02	67001	STHI_T2	21	347	326	0.14	0.16	0.02	0	0	0	0	0	0	0	0
4/3/2024 14:03	56504	ROCK_T2	0	24	24	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 14:03	67002	STHI_T2	6	49	43	0.1	0.16	0.06	0.61	0.61	0	0	0	0	0	0
4/3/2024 14:03	56501	ROCK_T2	0	3	3	0	0.13	0.13	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 14:03	67001	STHI_T2	21	347	326	0.14	0.16	0.02	0	0	0	0	0	0	0	0
4/3/2024 14:05	46001	BERW_T1	0	0	0	0	0	0	0.45	0.91	0	0	0	0	0	0
4/3/2024 14:05	41902	REED_T1	0	1	1	0	0	0	1.14	1.17	0	0	0	0	0	0
4/3/2024 14:05	41901	REED_T1	7	8	1	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
4/3/2024 14:05	45402	WBLO_T2	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
4/3/2024 14:06	41901	REED_T1	7	8	1	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
4/3/2024 14:06	41902	REED_T1	0	1	1	0	0	0	1.14	1.17	0	0	0	0	0	0
4/3/2024 14:06	52502	PROG_T2	0	0	0	0	0	0	-0.22	0.4	1	0	-1	900	0	-900
4/3/2024 14:06	64305	LINC_T1	0	0	0	0	0	0	-0.07	-0.01	0	0	0	0	0	0
4/3/2024 14:06	45402	WBLO_T2	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
4/3/2024 14:07	60701	BREC_T1	0	0	0	0	0	0	-0.37	-0.36	1	1	0	600	600	0
4/3/2024 14:07	52502	PROG_T2	0	0	0	0	0	0	-0.88	1.61	4	0	-4	3600	0	-3600
4/3/2024 14:08	56501	ROCK_T2	0	3	3	0	0.13	0.13	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 14:08	56504	ROCK_T2	0	24	24	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 14:08	52502	PROG_T2	0	0	0	0	0	0	2.01	1.99	5	0	-5	4500	0	-4500
4/3/2024 14:09	56501	ROCK_T2	0	3	3	0	0.13	0.13	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 14:09	56504	ROCK_T2	0	24	24	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 14:09	52502	PROG_T2	0	0	0	0	0	0	2.01	1.99	5	0	-5	4500	0	-4500
4/3/2024 14:10	52502	PROG_T2	0	0	0	0	0	0	1.21	1.19	0	0	0	0	0	0
4/3/2024 14:11	56504	ROCK_T2	0	24	24	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 14:11	60701	BREC_T1	0	0	0	0	0	0	-0.36	-0.34	1	1	0	600	600	0
4/3/2024 14:11	56501	ROCK_T2	0	3	3	0	0.13	0.13	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 14:13	56501	ROCK_T2	0	3	3	0	0.13	0.13	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 14:13	40603	PIGR_T1	0	0	0	0	0	0	-0.63	-0.62	1	1	0	900	900	0
4/3/2024 14:13	40602	PIGR_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
4/3/2024 14:13	43202	MVIL_T2	14	7	-7	0.13	0.16	0.03	0	0	0	0	0	0	0	0
4/3/2024 14:13	56504	ROCK_T2	0	24	24	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 14:13	43201	MVIL_T2	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
4/3/2024 14:14	43202	MVIL_T2	14	7	-7	0.13	0.16	0.03	-0.51	-0.52	0	0	0	0	0	0
4/3/2024 14:14	54501	ENOL_T2	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
4/3/2024 14:15	52402	GRPA_T2	4	4	0	1.23	0.98	-0.25	-0.98	-0.97	0	0	0	0	0	0
4/3/2024 14:15	52404	GRPA_T2	0	0	0	0	0	0	0.79	0.83	0	0	0	0	0	0
4/3/2024 14:15	52401	GRPA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/3/2024 14:15	52403	GRPA_T2	2	3	1	1.7	1.53	-0.17	0.04	0.05	0	0	0	0	0	0
4/3/2024 14:16	64702	LITI_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
4/3/2024 14:17	52402	GRPA_T2	4	4	0	1.23	0.98	-0.25	0	0	0	0	0	0	0	0
4/3/2024 14:17	67001	STHI_T2	347	102	-245	0.16	0.11	-0.05	0	0	0	0	0	0	0	0
4/3/2024 14:17	52403	GRPA_T2	2	3	1	1.7	1.53	-0.17	0	0	0	0	0	0	0	0
4/3/2024 14:17	64702	LITI_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
4/3/2024 14:17	67002	STHI_T2	49	18	-31	0.16	0.11	-0.05	0.61	0.63	0	0	0	0	0	0
4/3/2024 14:17	52401	GRPA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/3/2024 14:17	64305	LINC_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
4/3/2024 14:17	52404	GRPA_T2	0	0	0	0	0	0	0.79	0.83	0	0	0	0	0	0
4/3/2024 14:18	52403	GRPA_T2	2	3	1	1.7	1.53	-0.17	0	0	0	0	0	0	0	0
4/3/2024 14:18	52402	GRPA_T2	4	4	0	1.23	0.98	-0.25	-0.98	-0.97	0	0	0	0	0	0
4/3/2024 14:18	41901	REED_T1	8	9	1	0.36	0.23	-0.13	0	0	0	0	0	0	0	0
4/3/2024 14:18	41902	REED_T1	0	16	16	0	0.1	0.1	1.17	1.18	0	0	0	0	0	0
4/3/2024 14:18	52401	GRPA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/3/2024 14:18	64702	LITI_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
4/3/2024 14:19	15603	NSTR_T2	0	0	0	0	0	0	-0.36	-0.52	0	0	0	0	0	0
4/3/2024 14:19	67001	STHI_T2	347	102	-245	0.16	0.11	-0.05	0	0	0	0	0	0	0	0
4/3/2024 14:19	15601	NSTR_T2	226	367	141	0.69	0.75	0.06	0	0	0	0	0	0	0	0
4/3/2024 14:19	67002	STHI_T2	49	18	-31	0.16	0.11	-0.05	1.22	1.25	0	0	0	0	0	0
4/3/2024 14:20	67204	TEHI_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
4/3/2024 14:20	67002	STHI_T2	49	18	-31	0.16	0.11	-0.05	0.61	0.63	0	0	0	0	0	0
4/3/2024 14:20	67001	STHI_T2	347	102	-245	0.16	0.11	-0.05	0	0	0	0	0	0	0	0
4/3/2024 14:21	67002	STHI_T2	49	18	-31	0.16	0.11	-0.05	0.61	0.63	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/3/2024 14:21	59101	WALK_T2	0	0	0	0	0	0	1.62	1.69	1	1	0	600	600	0
4/3/2024 14:21	43105	SMIL_T2	18	17	-1	0.23	0.24	0.01	0	0	0	0	0	0	0	0
4/3/2024 14:21	43104	SMIL_T2	0	0	0	0	0	0	-0.73	-0.77	1	1	0	300	300	0
4/3/2024 14:21	41902	REED_T1	0	16	16	0	0.1	0.1	1.17	1.18	0	0	0	0	0	0
4/3/2024 14:21	43102	SMIL_T2	7	7	0	0.51	0.49	-0.02	0	0	0	0	0	0	0	0
4/3/2024 14:21	43103	SMIL_T2	17	18	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/3/2024 14:21	67001	STHI_T2	347	102	-245	0.16	0.11	-0.05	0	0	0	0	0	0	0	0
4/3/2024 14:21	45402	WBLO_T2	0	0	0	0	0	0	-1.46	-1.44	0	0	0	0	0	0
4/3/2024 14:21	41901	REED_T1	8	9	1	0.36	0.23	-0.13	0	0	0	0	0	0	0	0
4/3/2024 14:21	43101	SMIL_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 14:22	64305	LINC_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
4/3/2024 14:22	52403	GRPA_T2	2	3	1	1.7	1.53	-0.17	0.04	0.05	0	0	0	0	0	0
4/3/2024 14:22	59101	WALK_T2	0	0	0	0	0	0	1.62	1.69	1	1	0	600	600	0
4/3/2024 14:22	52401	GRPA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/3/2024 14:22	41902	REED_T1	0	16	16	0	0.1	0.1	1.17	1.18	0	0	0	0	0	0
4/3/2024 14:22	41901	REED_T1	8	9	1	0.36	0.23	-0.13	0	0	0	0	0	0	0	0
4/3/2024 14:22	52402	GRPA_T2	4	4	0	1.23	0.98	-0.25	0	0	0	0	0	0	0	0
4/3/2024 14:23	60701	BREC_T1	0	0	0	0	0	0	-0.34	-0.38	1	1	0	600	600	0
4/3/2024 14:23	67204	TEHI_T2	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
4/3/2024 14:23	60605	NCOL_T2	7	5	-2	0.46	0	-0.46	0	0	0	0	0	0	0	0
4/3/2024 14:24	60803	BUCK_T1	0	0	0	0	0	0	-0.49	-0.5	1	1	0	600	600	0
4/3/2024 14:24	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 14:24	60605	NCOL_T2	7	5	-2	0.46	0	-0.46	0	0	0	0	0	0	0	0
4/3/2024 14:24	41802	GOCI_T2	3	3	0	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
4/3/2024 14:24	56501	ROCK_T2	3	0	-3	0.13	0	-0.13	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 14:24	67502	WEWI_T2	0	0	0	0	0	0	-0.99	-0.91	1	1	0	900	900	0
4/3/2024 14:25	56501	ROCK_T2	3	0	-3	0.13	0	-0.13	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 14:25	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 14:25	64101	REFR_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
4/3/2024 14:25	60101	COCA_T1	0	0	0	0	0	0	0.4	0.46	0	0	0	0	0	0
4/3/2024 14:25	42701	AUGU_T1	1	1	0	0.3	0.4	0.1	0	0	4	4	0	3600	3600	0
4/3/2024 14:25	67502	WEWI_T2	0	0	0	0	0	0	-0.99	-0.91	1	1	0	900	900	0
4/3/2024 14:25	60701	BREC_T1	0	0	0	0	0	0	-0.34	-0.38	1	1	0	600	600	0
4/3/2024 14:25	41802	GOCI_T2	3	3	0	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
4/3/2024 14:25	60803	BUCK_T1	0	0	0	0	0	0	-0.49	-0.5	1	1	0	600	600	0
4/3/2024 14:26	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.73	0.62	2	2	0	1800	1800	0
4/3/2024 14:26	60605	NCOL_T2	7	5	-2	0.46	0	-0.46	0	0	0	0	0	0	0	0
4/3/2024 14:26	56501	ROCK_T2	3	0	-3	0.13	0	-0.13	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 14:26	59101	WALK_T2	0	0	0	0	0	0	3.37	2.93	2	2	0	1200	1200	0
4/3/2024 14:26	60101	COCA_T1	0	0	0	0	0	0	0.4	0.46	0	0	0	0	0	0
4/3/2024 14:27	60605	NCOL_T2	7	5	-2	0.46	0	-0.46	0	0	0	0	0	0	0	0
4/3/2024 14:28	56501	ROCK_T2	3	0	-3	0.13	0	-0.13	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 14:28	64101	REFR_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
4/3/2024 14:29	56501	ROCK_T2	3	0	-3	0.13	0	-0.13	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 14:29	43202	MVIL_T2	9	24	15	0.33	0.19	-0.14	0	0	0	0	0	0	0	0
4/3/2024 14:29	43201	MVIL_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
4/3/2024 14:29	40603	PIGR_T1	0	0	0	0	0	0	-0.62	-0.6	1	1	0	900	900	0
4/3/2024 14:29	52402	GRPA_T2	4	4	0	1.23	0.98	-0.25	-0.97	0	0	0	0	0	0	0
4/3/2024 14:29	40902	JESH_T1	0	0	0	0	0	0	-0.64	-0.68	0	0	0	0	0	0
4/3/2024 14:29	52403	GRPA_T2	2	3	1	1.7	1.53	-0.17	0	0	0	0	0	0	0	0
4/3/2024 14:29	40602	PIGR_T1	1	1	0	2	3.2	1.2	0	0	0	0	0	0	0	0
4/3/2024 14:29	52401	GRPA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/3/2024 14:30	60605	NCOL_T2	2	3	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/3/2024 14:30	43202	MVIL_T2	1	24	23	1.4	0.16	-1.24	-0.52	-0.56	0	0	0	0	0	0
4/3/2024 14:31	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/3/2024 14:31	40902	JESH_T1	0	0	0	0	0	0	-0.64	-0.68	0	0	0	0	0	0
4/3/2024 14:31	52402	GRPA_T2	4	4	0	0.98	1.3	0.32	-0.97	0	0	0	0	0	0	0
4/3/2024 14:31	52403	GRPA_T2	3	3	0	1.53	1.43	-0.1	0.05	0	0	0	0	0	0	0
4/3/2024 14:31	64303	LINC_T1	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
4/3/2024 14:32	52403	GRPA_T2	3	3	0	1.53	1.43	-0.1	0.05	0	0	0	0	0	0	0
4/3/2024 14:32	63602	LETO_T1	0	0	0	0	0	0	-0.3	-0.16	0	0	0	0	0	0
4/3/2024 14:32	64305	LINC_T1	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
4/3/2024 14:32	64204	KINZ_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/3/2024 14:32	52402	GRPA_T2	4	4	0	0.98	1.3	0.32	0	0	0	0	0	0	0	0
4/3/2024 14:32	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/3/2024 14:32	67002	STHI_T2	8	27	19	0.1	0.12	0.02	0.63	0.58	0	0	0	0	0	0
4/3/2024 14:32	59301	MCAL_T1	2	2	0	0.1	0.45	0.35	0	0	0	0	0	0	0	0
4/3/2024 14:32	67001	STHI_T2	13	164	151	0.11	0.11	0	0	0	0	0	0	0	0	0
4/3/2024 14:32	64203	KINZ_T1	0	0	0	0	0	0	0	-0.03	1	1	0	600	600	0
4/3/2024 14:32	59302	MCAL_T1	0	0	0	0	0	0	-0.56	-0.56	1	1	0	600	600	0
4/3/2024 14:32	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.79	0	0	0	0	0	0
4/3/2024 14:32	64201	KINZ_T1	0	0	0	0	0	0	-0.8	-0.67	3	3	0	1500	1500	0
4/3/2024 14:33	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.81	-2.13	0	0	0	0	0	0
4/3/2024 14:33	64702	LITI_T2	0	0	0	0	0	0	-1.48	-1.58	0	0	0	0	0	0
4/3/2024 14:33	42002	MNVL_T2	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
4/3/2024 14:33	67001	STHI_T2	13	164	151	0.11	0.11	0	0	0	0	0	0	0	0	0
4/3/2024 14:33	42001	MNVL_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
4/3/2024 14:33	59402	RFLD_T2	0	0	0	0	0	0	-0.8	-0.85	1	1	0	450	450	0
4/3/2024 14:33	67002	STHI_T2	8	27	19	0.1	0.12	0.02	0.63	0.58	0	0	0	0	0	0
4/3/2024 14:34	40902	JESH_T1	0	0	0	0	0	0	-0.64	-0.68	0	0	0	0	0	0
4/3/2024 14:34	67001	STHI_T2	13	164	151	0.11	0.11	0	0	0	0	0	0	0	0	0
4/3/2024 14:34	41901	REED_T1	7	9	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
4/3/2024 14:34	41902	REED_T1	1	16	15	0.1	9.18	9.08	1.18	1.19	0	0	0	0	0	0
4/3/2024 14:34	67002	STHI_T2	8	27	19	0.1	0.12	0.02	1.25	1.16	0	0	0	0	0	0
4/3/2024 14:35	67502	WEWI_T2	0	0	0	0	0	0	-0.99	-0.91	1	1	0	900	900	0
4/3/2024 14:36	67204	TEHI_T2	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
4/3/2024 14:36	41901	REED_T1	7	9	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
4/3/2024 14:36	67001	STHI_T2	13	164	151	0.11	0.11	0	0	0	0	0	0	0	0	0
4/3/2024 14:36	67002	STHI_T2	8	27	19	0.1	0.12	0.02	0.63	0.58	0	0	0	0	0	0
4/3/2024 14:36	41902	REED_T1	1	16	15	0.1	9.18	9.08	1.18	1.19	0	0	0	0	0	0
4/3/2024 14:37	59101	WALK_T2	0	0	0	0	0	0	1.69	1.46	1	1	0	600	600	0
4/3/2024 14:37	45402	WBLO_T2	0	0	0	0	0	0	-1.44	-1.5	0	0	0	0	0	0
4/3/2024 14:37	45602	WOOL_T1	2	3	1	0.6	0.8	0.2	0.63	0.61	0	0	0	0	0	0
4/3/2024 14:37	42701	AUGU_T1	1	1	0	0.4	0.5	0.1	0	0	2	2	0	1800	1800	0
4/3/2024 14:38	67204	TEHI_T2	0	0	0	0	0	0	-0.02	0.01	0	0	0	0	0	0
4/3/2024 14:38	41902	REED_T1	1	16	15	0.1	9.18	9.08	1.19	1.24	0	0	0	0	0	0
4/3/2024 14:38	64305	LINC_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
4/3/2024 14:38	59101	WALK_T2	0	0	0	0	0	0	1.46	1.98	1	1	0	600	600	0
4/3/2024 14:38	41901	REED_T1	7	9	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
4/3/2024 14:38	28604	BLYT_T2	0	0	0	0	0	0	-1.4	-1.39	0	0	0	0	0	0
4/3/2024 14:39	67401	WAKE_T2	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
4/3/2024 14:39	60701	BREC_T1	0	0	0	0	0	0	-0.38	-0.36	1	1	0	600	600	0
4/3/2024 14:40	67502	WEWI_T2	0	0	0	0	0	0	-0.91	-0.88	1	1	0	900	900	0
4/3/2024 14:40	45602	WOOL_T1	2	3	1	0.6	0.8	0.2	0.61	0.63	0	0	0	0	0	0
4/3/2024 14:40	56501	ROCK_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
4/3/2024 14:41	45501	DERR_T2	0	0	0	0	0	0	0.62	0.65	2	2	0	1800	1800	0
4/3/2024 14:41	42701	AUGU_T1	1	1	0	0.4	0.5	0.1	0	0	2	2	0	1800	1800	0
4/3/2024 14:41	60605	NCOL_T2	2	3	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/3/2024 14:41	55002	NEWP_T1	5	6	1	0.68	0.63	-0.05	-0.42	-0.4	0	0	0	0	0	0
4/3/2024 14:41	64101	REFR_T1	0	0	0	0	0	0	-0.95	-0.97	0	0	0	0	0	0
4/3/2024 14:41	55001	NEWP_T1	0	24	24	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 14:42	60605	NCOL_T2	2	3	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/3/2024 14:42	45602	WOOL_T1	2	3	1	0.6	0.8	0.2	0.61	0.63	0	0	0	0	0	0
4/3/2024 14:42	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 14:43	60605	NCOL_T2	2	3	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/3/2024 14:44	40603	PIGR_T1	0	0	0	0	0	0	-0.6	-0.6	1	1	0	900	900	0
4/3/2024 14:44	60605	NCOL_T2	2	3	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/3/2024 14:44	64702	LITI_T2	0	0	0	0	0	0	-0.79	-0.76	0	0	0	0	0	0
4/3/2024 14:44	61102	BERK_T5	1	1	0	0.1	0.3	0.2	1.18	1.84	2	2	0	600	600	0
4/3/2024 14:44	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/3/2024 14:44	52402	GRPA_T2	4	4	0	0.98	1.3	0.32	0	-0.98	0	0	0	0	0	0
4/3/2024 14:44	52403	GRPA_T2	3	3	0	1.53	1.43	-0.1	0	0	0	0	0	0	0	0
4/3/2024 14:44	43201	MVIL_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
4/3/2024 14:44	43202	MVIL_T2	1	24	23	1.4	0.16	-1.24	0	0	0	0	0	0	0	0
4/3/2024 14:44	64101	REFR_T1	0	0	0	0	0	0	-0.95	-0.97	0	0	0	0	0	0
4/3/2024 14:44	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 14:44	61101	BERK_T5	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 14:44	40602	PIGR_T1	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
4/3/2024 14:45	45602	WOOL_T1	3	3	0	0.5	0.9	0.4	0.61	0.63	0	0	0	0	0	0
4/3/2024 14:45	40902	JESH_T1	0	0	0	0	0	0	-0.68	-0.72	0	0	0	0	0	0
4/3/2024 14:45	60605	NCOL_T2	3	4	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/3/2024 14:46	67001	STHI_T2	102	232	130	0.11	0.12	0.01	0	0	0	0	0	0	0	0
4/3/2024 14:46	43202	MVIL_T2	24	12	-12	0.19	0.15	-0.04	-0.56	-0.56	0	0	0	0	0	0
4/3/2024 14:46	52401	GRPA_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/3/2024 14:46	67002	STHI_T2	15	38	23	0.11	0.14	0.03	0.58	0.61	0	0	0	0	0	0
4/3/2024 14:46	52404	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/3/2024 14:46	52403	GRPA_T2	3	3	0	1.7	1.3	-0.4	0	0	0	0	0	0	0	0
4/3/2024 14:46	52402	GRPA_T2	3	4	1	1.13	1.53	0.4	0	-0.98	0	0	0	0	0	0
4/3/2024 14:46	64303	LINC_T1	0	0	0	0	0	0	-0.19	-0.18	0	0	0	0	0	0
4/3/2024 14:47	40902	JESH_T1	0	0	0	0	0	0	-0.68	-0.72	0	0	0	0	0	0
4/3/2024 14:47	67001	STHI_T2	102	232	130	0.11	0.12	0.01	0	0	0	0	0	0	0	0
4/3/2024 14:47	67002	STHI_T2	15	38	23	0.11	0.14	0.03	0.58	0.61	0	0	0	0	0	0
4/3/2024 14:47	52403	GRPA_T2	3	3	0	1.7	1.3	-0.4	0	0.08	0	0	0	0	0	0
4/3/2024 14:47	52404	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/3/2024 14:47	52401	GRPA_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/3/2024 14:47	52402	GRPA_T2	3	4	1	1.13	1.53	0.4	0	0	0	0	0	0	0	0
4/3/2024 14:47	20403	ASHF_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
4/3/2024 14:48	26001	WDAM_T1	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
4/3/2024 14:48	64204	KINZ_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/3/2024 14:48	64201	KINZ_T1	0	0	0	0	0	0	-0.67	-0.75	3	3	0	1500	1500	0
4/3/2024 14:48	52404	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/3/2024 14:48	63602	LETO_T1	0	0	0	0	0	0	-0.16	-0.26	0	0	0	0	0	0
4/3/2024 14:48	52401	GRPA_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/3/2024 14:48	64702	LITI_T2	0	0	0	0	0	0	-0.79	-0.76	0	0	0	0	0	0
4/3/2024 14:48	64305	LINC_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
4/3/2024 14:48	52402	GRPA_T2	3	4	1	1.13	1.53	0.4	0	0	0	0	0	0	0	0
4/3/2024 14:48	52403	GRPA_T2	3	3	0	1.7	1.3	-0.4	0	0.08	0	0	0	0	0	0
4/3/2024 14:49	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 14:49	67002	STHI_T2	15	38	23	0.11	0.14	0.03	0.58	0.61	0	0	0	0	0	0
4/3/2024 14:49	64203	KINZ_T1	0	0	0	0	0	0	-0.03	0.1	1	1	0	600	600	0
4/3/2024 14:49	67001	STHI_T2	102	232	130	0.11	0.12	0.01	0	0	0	0	0	0	0	0
4/3/2024 14:49	64204	KINZ_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/3/2024 14:49	64702	LITI_T2	0	0	0	0	0	0	-0.79	-0.76	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/3/2024 14:50	40902	JESH_T1	0	0	0	0	0	0	-0.68	-0.72	0	0	0	0	0	0
4/3/2024 14:50	20403	ASHF_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
4/3/2024 14:50	67001	STHI_T2	102	232	130	0.11	0.12	0.01	0	0	0	0	0	0	0	0
4/3/2024 14:50	67002	STHI_T2	15	38	23	0.11	0.14	0.03	1.16	1.21	0	0	0	0	0	0
4/3/2024 14:51	45602	WOOL_T1	3	3	0	0.5	0.9	0.4	0.61	0.63	0	0	0	0	0	0
4/3/2024 14:52	45602	WOOL_T1	3	3	0	0.5	0.9	0.4	0.61	0.63	0	0	0	0	0	0
4/3/2024 14:53	64305	LINC_T1	0	0	0	0	0	0	-0.05	0.12	0	0	0	0	0	0
4/3/2024 14:55	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 14:55	60605	NCOL_T2	3	4	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/3/2024 14:55	60803	BUCK_T1	0	0	0	0	0	0	-0.48	-0.48	1	1	0	600	600	0
4/3/2024 14:56	60101	COCA_T1	0	0	0	0	0	0	0.43	0.46	0	0	0	0	0	0
4/3/2024 14:56	27502	WEIS_T2	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
4/3/2024 14:56	27503	WEIS_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/3/2024 14:56	45602	WOOL_T1	3	3	0	0.5	0.9	0.4	0.63	0.53	0	0	0	0	0	0
4/3/2024 14:57	60101	COCA_T1	0	0	0	0	0	0	0.43	0.46	0	0	0	0	0	0
4/3/2024 14:57	60803	BUCK_T1	0	0	0	0	0	0	-0.48	-0.48	1	1	0	600	600	0
4/3/2024 14:57	64801	MONE_T2	54	1	-53	4.77	0.1	-4.67	0.41	0.41	0	0	0	0	0	0
4/3/2024 14:58	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 14:58	45602	WOOL_T1	3	3	0	0.5	0.9	0.4	0.63	0.53	0	0	0	0	0	0
4/3/2024 14:59	64305	LINC_T1	0	0	0	0	0	0	-0.05	0.12	0	0	0	0	0	0
4/3/2024 15:00	56601	HAMP_T1	0	0	0	0	0	0	-3.37	-3.17	0	0	0	0	0	0
4/3/2024 15:00	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 15:00	46004	BERW_T2	0	77	77	0	0	0	-0.08	-0.23	0	0	0	0	0	0
4/3/2024 15:01	40902	JESH_T1	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
4/3/2024 15:02	46301	ROHR_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/3/2024 15:02	60701	BREC_T1	0	0	0	0	0	0	-0.36	-0.39	1	1	0	600	600	0
4/3/2024 15:02	46302	ROHR_T1	4	4	0	1.55	1.58	0.03	0.24	0.23	0	0	0	0	0	0
4/3/2024 15:03	41901	REED_T1	9	8	-1	0.22	0.29	0.07	0	0	0	0	0	0	0	0
4/3/2024 15:03	41902	REED_T1	0	0	0	0	0	0	1.24	1.21	0	0	0	0	0	0
4/3/2024 15:03	46301	ROHR_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/3/2024 15:03	46302	ROHR_T1	4	4	0	1.55	1.58	0.03	0.24	0.23	0	0	0	0	0	0
4/3/2024 15:04	64305	LINC_T1	0	0	0	0	0	0	-0.05	0.12	0	0	0	0	0	0
4/3/2024 15:04	41901	REED_T1	9	8	-1	0.22	0.29	0.07	0	0	0	0	0	0	0	0
4/3/2024 15:04	41902	REED_T1	0	0	0	0	0	0	1.24	1.21	0	0	0	0	0	0
4/3/2024 15:05	41902	REED_T1	0	0	0	0	0	0	1.24	1.21	0	0	0	0	0	0
4/3/2024 15:05	41901	REED_T1	9	8	-1	0.22	0.29	0.07	0	0	0	0	0	0	0	0
4/3/2024 15:06	45602	WOOL_T1	3	3	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/3/2024 15:06	40902	JESH_T1	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
4/3/2024 15:06	41801	GOCI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/3/2024 15:06	45601	WOOL_T1	0	0	0	0	0	0	-0.33	-0.25	1	1	0	1200	1200	0
4/3/2024 15:06	41802	GOCI_T2	12	16	4	0.18	0.3	0.12	0	0	0	0	0	0	0	0
4/3/2024 15:07	52502	PROG_T2	0	0	0	0	0	0	0.39	-0.53	0	1	1	0	900	900
4/3/2024 15:07	41801	GOCI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/3/2024 15:07	41802	GOCI_T2	12	16	4	0.18	0.3	0.12	0	0	0	0	0	0	0	0
4/3/2024 15:07	42701	AUGU_T1	1	0	0	0.5	0.6	0.1	0	0	2	2	0	1800	1800	0
4/3/2024 15:08	43102	SMIL_T2	6	7	1	0.37	0.47	0.1	0	0	0	0	0	0	0	0
4/3/2024 15:08	43104	SMIL_T2	0	0	0	0	0	0	-0.72	-0.75	1	1	0	300	300	0
4/3/2024 15:08	59101	WALK_T2	0	0	0	0	0	0	2.39	2.37	0	0	0	0	0	0
4/3/2024 15:08	43105	SMIL_T2	12	7	-5	0.2	0.11	-0.09	0	0	0	0	0	0	0	0
4/3/2024 15:08	43103	SMIL_T2	16	16	0	0.46	0.42	-0.04	0	0	0	0	0	0	0	0
4/3/2024 15:08	43101	SMIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/3/2024 15:09	59101	WALK_T2	0	0	0	0	0	0	2.39	2.37	0	0	0	0	0	0
4/3/2024 15:11	57403	SPAN_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
4/3/2024 15:11	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 15:11	46004	BERW_T2	0	77	77	0	0	0	-0.23	-0.12	0	0	0	0	0	0
4/3/2024 15:11	57401	SPAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/3/2024 15:12	57401	SPAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/3/2024 15:12	42701	AUGU_T1	1	1	0	0.5	0.6	0.1	0	0	2	2	0	1800	1800	0
4/3/2024 15:12	57403	SPAN_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
4/3/2024 15:14	64305	LINC_T1	0	0	0	0	0	0	0.12	-0.05	0	0	0	0	0	0
4/3/2024 15:16	67605	WARW_T1	1	580	579	0.2	0.38	0.18	-1.09	-1.1	0	0	0	0	0	0
4/3/2024 15:16	56501	ROCK_T2	2	0	-2	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 15:18	58401	MORO_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	600	600	0
4/3/2024 15:18	41901	REED_T1	6	9	3	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
4/3/2024 15:18	41902	REED_T1	0	0	0	0	0	0	1.21	1.23	0	0	0	0	0	0
4/3/2024 15:19	41902	REED_T1	0	0	0	0	0	0	1.21	1.23	0	0	0	0	0	0
4/3/2024 15:19	41901	REED_T1	6	9	3	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
4/3/2024 15:19	52502	PROG_T2	0	0	0	0	0	0	-0.53	-0.56	1	1	0	900	900	0
4/3/2024 15:20	64305	LINC_T1	0	0	0	0	0	0	0.12	-0.05	0	0	0	0	0	0
4/3/2024 15:21	41901	REED_T1	6	9	3	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
4/3/2024 15:21	41902	REED_T1	0	0	0	0	0	0	1.21	1.23	0	0	0	0	0	0
4/3/2024 15:27	56501	ROCK_T2	2	0	-2	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 15:27	60101	COCA_T1	0	0	0	0	0	0	0.39	0.43	0	0	0	0	0	0
4/3/2024 15:28	60101	COCA_T1	0	0	0	0	0	0	0.39	0.43	0	0	0	0	0	0
4/3/2024 15:29	45003	LIME_2	1	1	0	4.3	4	-0.3	0	0	1	1	0	1200	1200	0
4/3/2024 15:29	45001	LIME_2	20	38	18	0.21	0.21	0	0	0	0	0	0	0	0	0
4/3/2024 15:32	67605	WARW_T1	2	26	24	0.35	0.41	0.06	-1.1	-1.09	0	0	0	0	0	0
4/3/2024 15:32	40902	JESH_T1	0	0	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
4/3/2024 15:32	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 15:33	45003	LIME_2	1	1	0	4	4	0	0	0	1	1	0	1200	1200	0
4/3/2024 15:33	45001	LIME_2	16	24	8	0.13	0.25	0.12	0	0	0	0	0	0	0	0
4/3/2024 15:34	42201	SHEN_T2	0	0	0	0	0	0	-0.03	-0.01	1	1	0	600	600	0
4/3/2024 15:37	52502	PROG_T2	0	0	0	0	0	0	-0.56	-0.56	1	1	0	900	900	0
4/3/2024 15:37	40902	JESH_T1	0	0	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
4/3/2024 15:38	42201	SHEN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
4/3/2024 15:42	60101	COCA_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
4/3/2024 15:44	60101	COCA_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
4/3/2024 15:45	40101	HUNT_T2	0	1	1	0	0.2	0.2	-0.58	-0.58	0	0	0	0	0	0
4/3/2024 15:45	59301	MCAL_T1	2	2	0	0.5	0.85	0.35	-1.47	-1.41	1	1	0	600	600	0
4/3/2024 15:48	20403	ASHF_T2	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
4/3/2024 15:48	40902	JESH_T1	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
4/3/2024 15:49	60101	COCA_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
4/3/2024 15:50	20403	ASHF_T2	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
4/3/2024 15:53	40902	JESH_T1	0	0	0	0	0	0	-0.73	-0.69	0	0	0	0	0	0
4/3/2024 15:58	40902	JESH_T1	0	0	0	0	0	0	-0.73	-0.69	0	0	0	0	0	0
4/3/2024 15:58	60101	COCA_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
4/3/2024 15:58	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 15:59	60101	COCA_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
4/3/2024 16:03	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 16:04	60201	ATGL_T2	0	13	13	0	0	0	0.53	0.43	0	0	0	0	0	0
4/3/2024 16:04	40902	JESH_T1	0	0	0	0	0	0	-0.73	-0.69	0	0	0	0	0	0
4/3/2024 16:05	60101	COCA_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
4/3/2024 16:10	45501	DERR_T2	0	0	0	0	0	0	0.35	0.24	2	2	0	1800	1800	0
4/3/2024 16:11	45501	DERR_T2	0	0	0	0	0	0	0.35	0.24	2	2	0	1800	1800	0
4/3/2024 16:14	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 16:19	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 16:19	67901	WNHO_T2	1	31	30	0.1	0.19	0.09	-0.18	-0.22	1	1	0	900	900	0
4/3/2024 16:22	45402	WBLO_T2	0	0	0	0	0	0	-2.4	-2.49	0	0	0	0	0	0
4/3/2024 16:24	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 16:25	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 16:25	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 16:26	10801	CHHI_T1	0	0	0	0	0	0	-0.82	-0.82	1	1	0	900	900	0
4/3/2024 16:26	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 16:30	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 16:40	60803	BUCK_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	600	600	0
4/3/2024 16:40	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 16:41	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 16:45	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 16:59	14404	SSLA_T1	2	2	0	2.5	2.55	0.05	0	0	0	0	0	0	0	0
4/3/2024 16:59	14403	SSLA_T1	0	0	0	0	0	0	0.86	0.88	0	0	0	0	0	0
4/3/2024 17:11	13302	ORVI_T2	0	0	0	0	0	0	1.44	1.53	0	0	0	0	0	0
4/3/2024 17:55	52402	GRPA_T2	4	4	0	0.9	1.38	0.48	0	0	0	0	0	0	0	0
4/3/2024 17:55	52403	GRPA_T2	1	1	0	1.2	0.9	-0.3	0.13	0.16	0	0	0	0	0	0
4/3/2024 17:55	52404	GRPA_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/3/2024 18:41	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 18:46	56501	ROCK_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 19:53	67605	WARW_T1	0	0	0	0	0	0	-0.76	-0.84	0	0	0	0	0	0
4/3/2024 20:10	40501	CRES_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/3/2024 20:10	40502	CRES_T2	5	7	2	0.22	0.3	0.08	-0.14	-0.1	0	0	0	0	0	0
4/3/2024 20:10	56802	BENV_T2	44	209	165	0.22	0.31	0.09	-1.29	-1.33	0	0	0	0	0	0
4/3/2024 20:12	45501	DERR_T2	0	0	0	0	0	0	-0.09	-0.1	2	2	0	1800	1800	0
4/3/2024 20:12	40502	CRES_T2	5	7	2	0.22	0.3	0.08	-0.14	-0.1	0	0	0	0	0	0
4/3/2024 20:12	40501	CRES_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/3/2024 20:13	56802	BENV_T2	44	209	165	0.22	0.31	0.09	-2.58	-2.66	0	0	0	0	0	0
4/3/2024 20:13	40502	CRES_T2	5	7	2	0.22	0.3	0.08	-0.14	-0.1	0	0	0	0	0	0
4/3/2024 20:13	45501	DERR_T2	0	0	0	0	0	0	-0.09	-0.1	2	2	0	1800	1800	0
4/3/2024 20:13	40501	CRES_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/3/2024 20:14	56802	BENV_T2	44	209	165	0.22	0.31	0.09	-1.29	-1.33	0	0	0	0	0	0
4/3/2024 20:14	40502	CRES_T2	5	7	2	0.22	0.3	0.08	-0.56	-0.4	0	0	0	0	0	0
4/3/2024 20:14	40501	CRES_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/3/2024 20:15	40502	CRES_T2	7	7	0	0.3	0.31	0.01	-0.42	-0.3	0	0	0	0	0	0
4/3/2024 20:15	59402	RFLD_T2	0	0	0	0	0	0	-0.82	-0.8	1	1	0	450	450	0
4/3/2024 20:15	40501	CRES_T2	4	2	-2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/3/2024 20:15	56802	BENV_T2	207	130	-77	0.31	0.2	-0.11	-1.29	-1.33	0	0	0	0	0	0
4/3/2024 20:16	40502	CRES_T2	7	7	0	0.3	0.31	0.01	-0.14	-0.1	0	0	0	0	0	0
4/3/2024 20:16	40501	CRES_T2	4	2	-2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/3/2024 20:17	40502	CRES_T2	7	7	0	0.3	0.31	0.01	-0.14	-0.1	0	0	0	0	0	0
4/3/2024 20:17	56802	BENV_T2	207	130	-77	0.31	0.2	-0.11	-1.29	-1.33	0	0	0	0	0	0
4/3/2024 20:17	40501	CRES_T2	4	2	-2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/3/2024 20:18	40501	CRES_T2	4	2	-2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/3/2024 20:18	40502	CRES_T2	7	7	0	0.3	0.31	0.01	-0.14	-0.1	0	0	0	0	0	0
4/3/2024 20:27	40501	CRES_T2	4	2	-2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/3/2024 20:27	40502	CRES_T2	7	7	0	0.3	0.31	0.01	-0.1	-0.17	0	0	0	0	0	0
4/3/2024 20:31	65001	NEFF_T2	83	206	123	0.13	0.2	0.07	-0.92	-0.91	1	1	0	1200	1200	0
4/3/2024 20:31	65004	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/3/2024 20:32	60201	ATGL_T2	50	46	-4	0.25	0.31	0.06	-0.28	-0.36	0	0	0	0	0	0
4/3/2024 20:41	26401	INOR_T1	0	1	1	0	0	0	0.51	0.5	0	0	0	0	0	0
4/3/2024 20:42	56802	BENV_T2	122	81	-41	0.2	0.22	0.02	-1.29	-1.29	0	0	0	0	0	0
4/3/2024 20:43	56802	BENV_T2	122	81	-41	0.2	0.22	0.02	-1.29	-1.29	0	0	0	0	0	0
4/3/2024 20:45	54203	PENN_T1	263	386	123	0.3	0.41	0.11	0	0	0	0	0	0	0	0
4/3/2024 20:45	54201	PENN_T1	202	303	101	0.49	0.56	0.07	-1.3	-1.25	0	0	0	0	0	0
4/3/2024 20:45	54205	PENN_T1	76	134	58	0.36	0.41	0.05	0	0	0	0	0	0	0	0
4/3/2024 20:47	24902	WHHA_T1	1	1	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/3/2024 20:49	60605	NCOL_T2	15	16	1	0.36	0	-0.36	0	0	0	0	0	0	0	0
4/3/2024 20:50	60605	NCOL_T2	15	16	1	0.36	0	-0.36	0	0	0	0	0	0	0	0
4/3/2024 20:51	24902	WHHA_T1	1	1	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
4/3/2024 20:52	40201	BEGA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/3/2024 20:53	66504	SMAN_T2	0	0	0	0	0	0	-1.02	-1.06	0	0	0	0	0	0
4/3/2024 20:53	66505	SMAN_T2	3	3	0	1.2	1.47	0.27	0	0	0	0	0	0	0	0
4/3/2024 20:53	66501	SMAN_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
4/3/2024 20:53	66503	SMAN_T2	7	195	188	0.14	0.26	0.12	0	0	0	0	0	0	0	0
4/3/2024 20:54	46301	ROHR_T1	125	218	93	0.28	0.46	0.18	0	0	0	0	0	0	0	0
4/3/2024 20:54	46302	ROHR_T1	4	99	95	1.7	0.35	-1.35	0.23	0.22	0	0	0	0	0	0
4/3/2024 20:56	64101	REFR_T1	0	0	0	0	0	0	-1	-1.03	0	0	0	0	0	0
4/3/2024 21:00	53601	DALM_T2	0	1	1	0	0.3	0.3	-0.06	-0.02	0	0	0	0	0	0
4/3/2024 21:00	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/3/2024 21:00	63602	LETO_T1	0	4	4	0	0.1	0.1	-0.44	-0.5	0	0	0	0	0	0
4/3/2024 21:00	54501	ENOL_T2	0	0	0	0	0	0	-0.48	-0.49	1	1	0	600	600	0
4/3/2024 21:00	63601	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/3/2024 21:01	64201	KINZ_T1	11	6	-5	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
4/3/2024 21:01	53601	DALM_T2	0	1	1	0	0.3	0.3	-0.06	-0.02	0	0	0	0	0	0
4/3/2024 21:01	64204	KINZ_T1	133	18	-115	0.25	0.26	0.01	0	0	0	0	0	0	0	0
4/3/2024 21:01	16402	MOPO_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
4/3/2024 21:01	64202	KINZ_T1	16	6	-10	0.42	0.25	-0.17	0	0	0	0	0	0	0	0
4/3/2024 21:01	64203	KINZ_T1	50	2	-48	0.22	0.1	-0.12	0.12	0.12	0	0	0	0	0	0
4/3/2024 21:01	60605	NCOL_T2	15	1	-14	0.38	0	-0.38	0	0	0	0	0	0	0	0
4/3/2024 21:01	64702	LITI_T2	0	0	0	0	0	0	-0.8	-0.67	0	0	0	0	0	0
4/3/2024 21:02	60605	NCOL_T2	15	1	-14	0.38	0	-0.38	0	0	0	0	0	0	0	0
4/3/2024 21:02	57401	SPAN_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/3/2024 21:02	15603	NSTR_T2	0	0	0	0	0	0	-0.51	-0.48	0	0	0	0	0	0
4/3/2024 21:02	64001	BERW_T1	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
4/3/2024 21:02	57403	SPAN_T1	0	0	0	0	0	0	0.11	0.07	0	0	0	0	0	0
4/3/2024 21:02	15601	NSTR_T2	366	411	45	0.89	0.98	0.09	0	0	0	0	0	0	0	0
4/3/2024 21:03	52502	PROG_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
4/3/2024 21:04	67502	WEWI_T2	0	4	4	0	0.1	0.1	-1.4	-1.38	1	1	0	900	900	0
4/3/2024 21:04	40201	BEGA_T2	1	1	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
4/3/2024 21:05	26001	WDAM_T1	0	1	1	0	0.1	0.1	-0.61	-0.62	0	0	0	0	0	0
4/3/2024 21:05	10801	CHHI_T1	0	0	0	0	0	0	-1.43	-1.45	2	2	0	1500	1500	0
4/3/2024 21:05	64203	KINZ_T1	50	2	-48	0.22	0.1	-0.12	0	0	0	0	0	0	0	0
4/3/2024 21:05	64204	KINZ_T1	133	18	-115	0.25	0.26	0.01	0	0	0	0	0	0	0	0
4/3/2024 21:05	64201	KINZ_T1	11	6	-5	0.57	0.53	-0.04	-0.41	-0.52	2	2	0	1200	1200	0
4/3/2024 21:05	26002	WDAM_T1	3	15	12	0.63	0.22	-0.41	0	0	0	0	0	0	0	0
4/3/2024 21:05	64202	KINZ_T1	16	6	-10	0.42	0.25	-0.17	0	0	0	0	0	0	0	0
4/3/2024 21:05	52502	PROG_T2	0	0	0	0	0	0	0.81	0.78	0	0	0	0	0	0
4/3/2024 21:06	56802	BENV_T2	67	132	65	0.21	0.27	0.06	-1.29	-1.32	0	0	0	0	0	0
4/3/2024 21:06	45402	WBLO_T2	19	56	37	0.17	0.28	0.11	-0.75	-0.77	0	0	0	0	0	0
4/3/2024 21:06	64702	LITI_T2	0	0	0	0	0	0	-0.8	-0.67	0	0	0	0	0	0
4/3/2024 21:06	60605	NCOL_T2	15	1	-14	0.38	0	-0.38	0	0	0	0	0	0	0	0
4/3/2024 21:06	40101	HUNT_T2	7	6	-1	0.67	0.2	-0.47	-0.63	-0.61	0	0	0	0	0	0
4/3/2024 21:07	64702	LITI_T2	0	0	0	0	0	0	-0.8	-0.67	0	0	0	0	0	0
4/3/2024 21:07	67605	WARW_T1	0	0	0	0	0	0	-0.65	-0.81	0	0	0	0	0	0
4/3/2024 21:08	60101	COCA_T1	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
4/3/2024 21:08	46004	BERW_T2	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
4/3/2024 21:08	49803	UNIV_T1	0	0	0	0	0	0	-1.11	-1.07	0	0	0	0	0	0
4/3/2024 21:08	40603	PIGR_T1	0	1	1	0	0	0	0.37	0.36	0	0	0	0	0	0
4/3/2024 21:08	65901	SAKR_T2	0	0	0	0	0	0	-1.37	-1.44	1	1	0	900	900	0
4/3/2024 21:09	64101	REFR_T1	0	0	0	0	0	0	-1.03	-1.07	0	0	0	0	0	0
4/3/2024 21:09	60803	BUCK_T1	0	0	0	0	0	0	-0.54	-0.51	1	1	0	600	600	0
4/3/2024 21:09	64202	KINZ_T1	16	6	-10	0.42	0.25	-0.17	0.66	0.76	0	0	0	0	0	0
4/3/2024 21:09	64203	KINZ_T1	50	2	-48	0.22	0.1	-0.12	0	0	0	0	0	0	0	0
4/3/2024 21:09	64204	KINZ_T1	133	18	-115	0.25	0.26	0.01	0	0	0	0	0	0	0	0
4/3/2024 21:09	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
4/3/2024 21:09	42701	AUGU_T1	0	1	1	0	0.4	0.4	0	0	2	2	0	1800	1800	0
4/3/2024 21:09	64201	KINZ_T1	11	6	-5	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
4/3/2024 21:09	40101	HUNT_T2	7	6	-1	0.67	0.2	-0.47	-0.61	-0.64	0	0	0	0	0	0
4/3/2024 21:10	46206	DANV_T2	0	0	0	0	0	0	1.89	1.87	1	1	0	1200	1200	0
4/3/2024 21:10	45402	WBLO_T2	19	56	37	0.17	0.28	0.11	-0.77	-0.77	0	0	0	0	0	0
4/3/2024 21:10	64303	LINC_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
4/3/2024 21:10	46203	DANV_T2	111	164	53	0.45	0.56	0.11	0	0	0	0	0	0	0	0
4/3/2024 21:10	60101	COCA_T1	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
4/3/2024 21:10	40101	HUNT_T2	7	6	-1	0.67	0.2	-0.47	-0.61	-0.64	0	0	0	0	0	0
4/3/2024 21:11	60605	NCOL_T2	15	1	-14	0.38	0	-0.38	0	0	0	0	0	0	0	0
4/3/2024 21:11	26001	WDAM_T1	0	1	1	0	0.1	0.1	-1.23	-1.22	0	0	0	0	0	0
4/3/2024 21:11	46203	DANV_T2	111	164	53	0.45	0.56	0.11	-0.93	-0.97	0	0	0	0	0	0
4/3/2024 21:11	26002	WDAM_T1	3	15	12	0.63	0.22	-0.41	0	0	0	0	0	0	0	0
4/3/2024 21:11	53601	DALM_T2	0	1	1	0	0.3	0.3	-0.02	0	0	0	0	0	0	0
4/3/2024 21:11	45501	DERR_T2	69	0	-69	7.99	0	-7.99	-0.22	-0.28	2	2	0	1800	1800	0
4/3/2024 21:11	59302	MCAL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/3/2024 21:11	59301	MCAL_T1	2	2	0	0.7	1.1	0.4	-1.23	-1.15	0	0	0	0	0	0
4/3/2024 21:12	57401	SPAN_T1	0	2	2	0	0.35	0.35	-0.79	-0.84	1	1	0	600	600	0
4/3/2024 21:12	52502	PROG_T2	0	0	0	0	0	0	0.39	0.43	0	0	0	0	0	0
4/3/2024 21:12	64301	BEAV_T2	0	0	0	0	0	0	-0.15	0.11	1	1	0	600	600	0
4/3/2024 21:12	57104	SPHI_T2	3	7	4	1.57	0.99	-0.58	0	0	0	0	0	0	0	0
4/3/2024 21:12	57101	SPHI_T2	6	6	0	0.47	0.68	0.21	0	0	0	0	0	0	0	0
4/3/2024 21:12	61801	EELI_T2	0	2	2	0	0.15	0.15	-1.76	-0.54	2	0	-2	1200	0	-1200
4/3/2024 21:12	57103	SPHI_T2	21	46	25	0.12	0.16	0.04	-0.87	-0.91	1	1	0	600	600	0
4/3/2024 21:12	57106	SPHI_T2	4	4	0	1.88	1.85	-0.03	0	0	0	0	0	0	0	0
4/3/2024 21:13	52502	PROG_T2	0	0	0	0	0	0	0.39	0.43	0	0	0	0	0	0
4/3/2024 21:13	67605	WARW_T1	0	0	0	0	0	0	-0.81	-0.91	0	0	0	0	0	0
4/3/2024 21:13	67401	WAKE_T2	0	0	0	0	0	0	-1.2	-1.08	0	0	0	0	0	0
4/3/2024 21:13	60101	COCA_T1	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
4/3/2024 21:14	54205	PENN_T1	78	135	57	0.43	0.46	0.03	0	0	0	0	0	0	0	0
4/3/2024 21:14	54203	PENN_T1	326	409	83	0.32	0.44	0.12	0	0	0	0	0	0	0	0
4/3/2024 21:14	54201	PENN_T1	242	320	78	0.51	0.59	0.08	-1.27	-1.28	0	0	0	0	0	0
4/3/2024 21:14	42701	AUGU_T1	0	1	1	0	0.4	0.4	0	0	2	2	0	1800	1800	0
4/3/2024 21:14	43202	MVIL_T2	78	111	33	0.39	0.58	0.19	-0.68	-0.65	0	0	0	0	0	0
4/3/2024 21:14	67001	STHI_T2	481	773	292	0.25	0.39	0.14	0	0	0	0	0	0	0	0
4/3/2024 21:14	67002	STHI_T2	118	454	336	0.2	0.25	0.05	0.59	0.58	0	0	0	0	0	0
4/3/2024 21:14	46001	BERW_T1	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
4/3/2024 21:15	10805	CHHI_T2	10	1	-9	1.95	7.5	5.55	-0.87	-0.92	0	0	0	0	0	0
4/3/2024 21:15	54505	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/3/2024 21:15	61103	BERK_T5	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
4/3/2024 21:15	46302	ROHR_T1	99	71	-28	0.35	0.26	-0.09	0.22	0.24	0	0	0	0	0	0
4/3/2024 21:15	67204	TEHI_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
4/3/2024 21:15	61102	BERK_T5	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/3/2024 21:15	46301	ROHR_T1	213	190	-23	0.47	0.39	-0.08	0	0	0	0	0	0	0	0
4/3/2024 21:15	56501	ROCK_T2	4	9	5	0.23	0.18	-0.05	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 21:15	54504	ENOL_T2	0	0	0	0	0	0	-0.95	-0.96	1	1	0	600	600	0
4/3/2024 21:16	45501	DERR_T2	0	0	0	0	0	0	-0.22	-0.28	2	2	0	1800	1800	0
4/3/2024 21:16	64802	MONE_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
4/3/2024 21:16	45402	WBLO_T2	55	33	-22	0.28	0.2	-0.08	-0.77	-0.77	0	0	0	0	0	0
4/3/2024 21:17	67201	TEHI_T1	33	0	-33	0.18	0	-0.18	0	0	0	0	0	0	0	0
4/3/2024 21:17	42802	SELI_T1	0	1	1	0	0.5	0.5	-1.01	-1.05	1	1	0	900	900	0
4/3/2024 21:17	67001	STHI_T2	769	674	-95	0.39	0.34	-0.05	0	0	0	0	0	0	0	0
4/3/2024 21:17	10805	CHHI_T2	10	1	-9	1.95	7.5	5.55	-0.87	-0.92	0	0	0	0	0	0
4/3/2024 21:17	67002	STHI_T2	453	372	-81	0.25	0.21	-0.04	0.59	0.58	0	0	0	0	0	0
4/3/2024 21:17	67204	TEHI_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
4/3/2024 21:17	57401	SPAN_T1	2	2	0	0.35	0.45	0.1	-0.79	-0.84	1	1	0	600	600	0
4/3/2024 21:17	52502	PROG_T2	0	0	0	0	0	0	0.39	0.43	0	0	0	0	0	0
4/3/2024 21:17	67203	TEHI_T1	0	0	0	0	0	0	2.41	2.4	1	1	0	600	600	0
4/3/2024 21:17	20403	ASHF_T2	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
4/3/2024 21:18	20403	ASHF_T2	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
4/3/2024 21:18	52502	PROG_T2	0	0	0	0	0	0	0.78	0.87	0	0	0	0	0	0
4/3/2024 21:18	56501	ROCK_T2	4	9	5	0.23	0.18	-0.05	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 21:18	53901	HALI_T2	5	4	-1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/3/2024 21:18	40201	BEGA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/3/2024 21:18	42001	MNVL_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
4/3/2024 21:18	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
4/3/2024 21:18	42002	MNVL_T2	1	1	0	4.3	4.1	-0.2	0	0	0	0	0	0	0	0
4/3/2024 21:18	61801	EELI_T2	2	0	-2	0.15	0	-0.15	-0.88	-0.27	1	0	-1	600	0	-600
4/3/2024 21:18	60701	BREC_T1	0	3	3	0	0.1	0.1	-0.84	-0.87	2	2	0	1200	1200	0
4/3/2024 21:18	53903	HALI_T2	8	2	-6	0.51	1.5	0.99	-0.29	-0.31	0	0	0	0	0	0
4/3/2024 21:19	67001	STHI_T2	769	674	-95	0.39	0.34	-0.05	0	0	0	0	0	0	0	0
4/3/2024 21:19	65902	SAKR_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
4/3/2024 21:19	52502	PROG_T2	0	0	0	0	0	0	0.39	0.43	0	0	0	0	0	0
4/3/2024 21:19	58402	MORO_T1	0	0	0	0	0	0	-0.22	-0.17	2	2	0	1500	1500	0
4/3/2024 21:19	45003	LIME_2	1	1	0	2.9	3.7	0.8	0	0	1	1	0	1200	1200	0
4/3/2024 21:19	60701	BREC_T1	0	3	3	0	0.1	0.1	-0.42	-0.44	1	1	0	600	600	0
4/3/2024 21:19	67002	STHI_T2	453	372	-81	0.25	0.21	-0.04	0.59	0.58	0	0	0	0	0	0
4/3/2024 21:19	45001	LIME_2	6	14	8	0.15	0.19	0.04	0	0	0	0	0	0	0	0
4/3/2024 21:20	52502	PROG_T2	0	0	0	0	0	0	0.78	0.87	0	0	0	0	0	0
4/3/2024 21:20	67002	STHI_T2	453	372	-81	0.25	0.21	-0.04	0.59	0.58	0	0	0	0	0	0
4/3/2024 21:20	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
4/3/2024 21:20	67001	STHI_T2	769	674	-95	0.39	0.34	-0.05	0	0	0	0	0	0	0	0
4/3/2024 21:20	61102	BERK_T5	1	1	0	0.2	0.1	-0.1	0.88	0.96	1	1	0	300	300	0
4/3/2024 21:20	58402	MORO_T1	0	0	0	0	0	0	-0.22	-0.17	2	2	0	1500	1500	0
4/3/2024 21:20	10801	CHHI_T1	0	0	0	0	0	0	-1.45	-1.46	2	2	0	1500	1500	0
4/3/2024 21:20	40101	HUNT_T2	6	1	-5	0.37	0	-0.37	-0.61	-0.64	0	0	0	0	0	0
4/3/2024 21:20	55002	NEWP_T1	3	4	1	0.57	0.8	0.23	-0.24	-0.22	0	0	0	0	0	0
4/3/2024 21:20	56501	ROCK_T2	4	9	5	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
4/3/2024 21:21	52502	PROG_T2	0	0	0	0	0	0	0.39	0.43	0	0	0	0	0	0
4/3/2024 21:21	67001	STHI_T2	769	674	-95	0.39	0.34	-0.05	0	0	0	0	0	0	0	0
4/3/2024 21:21	43202	MVIL_T2	103	117	14	0.59	0.53	-0.06	-0.68	-0.65	0	0	0	0	0	0
4/3/2024 21:21	40902	JESH_T1	0	0	0	0	0	0	-0.82	-0.86	0	0	0	0	0	0
4/3/2024 21:21	67002	STHI_T2	453	372	-81	0.25	0.21	-0.04	0.59	0.58	0	0	0	0	0	0
4/3/2024 21:21	59102	WALK_T2	16	12	-4	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
4/3/2024 21:21	42201	SHEN_T2	0	0	0	0	0	0	-0.16	-0.17	1	1	0	600	600	0
4/3/2024 21:21	41902	REED_T1	0	1	1	0	0	0	1.06	0.98	0	0	0	0	0	0
4/3/2024 21:21	45003	LIME_2	1	1	0	2.9	3.7	0.8	0	0	1	1	0	1200	1200	0
4/3/2024 21:21	43201	MVIL_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
4/3/2024 21:21	59101	WALK_T2	0	0	0	0	0	0	-1.62	-1.47	0	0	0	0	0	0
4/3/2024 21:21	45001	LIME_2	6	14	8	0.15	0.19	0.04	0	0	0	0	0	0	0	0
4/3/2024 21:21	42202	SHEN_T2	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
4/3/2024 21:21	41901	REED_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/3/2024 21:21	60605	NCOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/3/2024 21:22	66703	STRA_T1	8	12	4	0.76	0.52	-0.24	-0.28	-0.31	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/3/2024 21:22	57303	MOAL_T2	1	1	0	6.7	6.5	-0.2	0	0	0	0	0	0	0	0
4/3/2024 21:22	52401	GRPA_T2	1	1185	1184	0.8	0.8	0	0	0	0	0	0	0	0	0
4/3/2024 21:22	46203	DANV_T2	163	161	-2	0.55	0.55	0	0	0	0	0	0	0	0	0
4/3/2024 21:22	57304	MOAL_T2	1	1	0	0.2	0.1	-0.1	-0.16	-0.24	0	0	0	0	0	0
4/3/2024 21:22	46206	DANV_T2	0	0	0	0	0	0	1.89	1.87	1	1	0	1200	1200	0
4/3/2024 21:22	41901	REED_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/3/2024 21:22	41902	REED_T1	0	1	1	0	0	0	1.06	0.98	0	0	0	0	0	0
4/3/2024 21:22	52403	GRPA_T2	0	133	133	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 21:22	52404	GRPA_T2	1	2	1	0.8	0.8	0	-0.11	-0.11	0	0	0	0	0	0
4/3/2024 21:22	54501	ENOL_T2	0	0	0	0	0	0	-0.49	-0.52	1	1	0	600	600	0
4/3/2024 21:22	52402	GRPA_T2	5	73	68	1.46	1.53	0.07	0	0	0	0	0	0	0	0
4/3/2024 21:22	54505	ENOL_T2	1	1	0	0.1	0.1	0	-1.17	-1.12	1	1	0	600	600	0
4/3/2024 21:23	12701	MACU_T1	0	0	0	0	0	0	-0.75	-0.86	0	1	1	0	1200	1200
4/3/2024 21:23	56803	BENV_T1	5	5	0	0.38	0.4	0.02	0	0	0	0	0	0	0	0
4/3/2024 21:23	67002	STHI_T2	453	372	-81	0.25	0.21	-0.04	1.16	1.18	0	0	0	0	0	0
4/3/2024 21:23	41902	REED_T1	0	1	1	0	0	0	0.98	1.02	0	0	0	0	0	0
4/3/2024 21:23	67001	STHI_T2	769	674	-95	0.39	0.34	-0.05	0	0	0	0	0	0	0	0
4/3/2024 21:23	57304	MOAL_T2	1	1	0	0.2	0.1	-0.1	-0.24	-0.27	0	0	0	0	0	0
4/3/2024 21:23	41901	REED_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/3/2024 21:23	44301	BEAV_T2	0	0	0	0	0	0	0.11	0.08	1	1	0	600	600	0
4/3/2024 21:23	57303	MOAL_T2	1	1	0	6.7	6.5	-0.2	0	0	0	0	0	0	0	0
4/3/2024 21:23	56801	BENV_T1	18	15	-3	0.82	0.61	-0.21	-0.7	-0.73	1	1	0	600	600	0
4/3/2024 21:24	45601	WOOL_T1	0	0	0	0	0	0	1	1.02	0	0	0	0	0	0
4/3/2024 21:24	27502	WEIS_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
4/3/2024 21:24	45602	WOOL_T1	5	0	-5	5.44	0	-5.44	0	0	0	0	0	0	0	0
4/3/2024 21:24	52202	DEVO_T2	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
4/3/2024 21:24	56501	ROCK_T2	4	9	5	0.23	0.18	-0.05	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 21:24	40201	BEGK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/3/2024 21:25	52402	GRPA_T2	5	73	68	1.46	1.53	0.07	0	0	0	0	0	0	0	0
4/3/2024 21:25	42701	AUGU_T1	1	1	0	0.4	0.5	0.1	0	0	2	2	0	1800	1800	0
4/3/2024 21:25	55002	NEWP_T1	3	4	1	0.57	0.8	0.23	-0.44	-0.46	0	0	0	0	0	0
4/3/2024 21:25	57401	SPAN_T1	2	2	0	0.35	0.45	0.1	-0.84	-0.9	1	1	0	600	600	0
4/3/2024 21:25	52401	GRPA_T2	1	1185	1184	0.8	0.8	0	0	0	0	0	0	0	0	0
4/3/2024 21:25	44301	BEAV_T2	0	0	0	0	0	0	0.11	0.08	1	1	0	600	600	0
4/3/2024 21:25	12701	MACU_T1	0	0	0	0	0	0	-0.75	-0.86	1	1	0	1200	1200	0
4/3/2024 21:25	52404	GRPA_T2	1	2	1	0.8	0.8	0	-0.11	-0.16	0	0	0	0	0	0
4/3/2024 21:25	52403	GRPA_T2	0	133	133	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 21:26	42202	SHEN_T2	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
4/3/2024 21:26	46203	DANV_T2	163	161	-2	0.55	0.55	0	-0.97	-0.97	0	0	0	0	0	0
4/3/2024 21:26	42201	SHEN_T2	0	0	0	0	0	0	-0.17	-0.17	1	1	0	600	600	0
4/3/2024 21:26	12701	MACU_T1	0	0	0	0	0	0	-0.75	-0.86	1	1	0	1200	1200	0
4/3/2024 21:27	59302	MCAL_T1	1	1	0	0.2	0.2	0	-0.44	-0.33	1	1	0	600	600	0
4/3/2024 21:27	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
4/3/2024 21:27	59101	WALK_T2	0	0	0	0	0	0	-0.49	-0.53	0	0	0	0	0	0
4/3/2024 21:27	42802	SELI_T1	0	1	1	0	0.5	0.5	-1.05	-1.04	1	1	0	900	900	0
4/3/2024 21:27	56501	ROCK_T2	4	9	5	0.23	0.18	-0.05	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 21:27	59301	MCAL_T1	2	2	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
4/3/2024 21:27	59102	WALK_T2	16	12	-4	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
4/3/2024 21:27	42701	AUGU_T1	1	1	0	0.4	0.5	0.1	0	0	2	2	0	1800	1800	0
4/3/2024 21:27	55002	NEWP_T1	3	4	1	0.57	0.8	0.23	-0.22	-0.23	0	0	0	0	0	0
4/3/2024 21:28	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
4/3/2024 21:28	53901	HALI_T2	5	4	-1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/3/2024 21:28	60701	BREC_T1	0	3	3	0	0.1	0.1	-0.44	0.14	1	0	-1	600	0	-600
4/3/2024 21:28	53903	HALI_T2	8	2	-6	0.51	1.5	0.99	-0.15	-0.15	0	0	0	0	0	0
4/3/2024 21:28	56802	BENV_T2	126	95	-31	0.26	0.27	0.01	-2.65	-2.7	0	0	0	0	0	0
4/3/2024 21:29	45602	WOOL_T1	5	0	-5	5.44	0	-5.44	0.48	0.49	0	0	0	0	0	0
4/3/2024 21:29	57401	SPAN_T1	2	0	-2	0.35	0.45	0.1	-0.84	-0.9	1	1	0	600	600	0
4/3/2024 21:29	52402	GRPA_T2	5	73	68	1.46	1.53	0.07	-0.78	-0.79	0	0	0	0	0	0
4/3/2024 21:29	56802	BENV_T2	126	95	-31	0.26	0.27	0.01	-1.32	-1.35	0	0	0	0	0	0
4/3/2024 21:29	46203	DANV_T2	163	161	-2	0.55	0.55	0	0	0	0	0	0	0	0	0
4/3/2024 21:29	55002	NEWP_T1	3	4	1	0.57	0.8	0.23	-0.22	-0.23	0	0	0	0	0	0
4/3/2024 21:29	52404	GRPA_T2	1	2	1	0.8	0.8	0	0	0	0	0	0	0	0	0
4/3/2024 21:29	52502	PROG_T2	0	0	0	0	0	0	0.43	0.39	0	0	0	0	0	0
4/3/2024 21:29	40101	HUNT_T2	6	1	-5	0.37	0	-0.37	-0.64	-0.67	0	0	0	0	0	0
4/3/2024 21:29	52401	GRPA_T2	1	1185	1184	0.8	0.8	0	0	0	0	0	0	0	0	0
4/3/2024 21:29	46206	DANV_T2	0	0	0	0	0	0	1.87	1.86	1	1	0	1200	1200	0
4/3/2024 21:29	52403	GRPA_T2	0	133	133	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 21:30	52502	PROG_T2	0	0	0	0	0	0	1.3	1.18	0	0	0	0	0	0
4/3/2024 21:30	56501	ROCK_T2	4	16	12	0.13	0.28	0.15	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 21:30	45501	DERR_T2	0	0	0	0	0	0	-0.28	-0.29	2	2	0	1800	1800	0
4/3/2024 21:30	46801	HEPB_T2	0	2	2	0	0.2	0.2	0.61	0.6	0	0	0	0	0	0
4/3/2024 21:30	57401	SPAN_T1	2	2	0	0.25	0.5	0.25	-0.84	-0.9	1	1	0	600	600	0
4/3/2024 21:31	43104	SMIL_T2	0	0	0	0	0	0	-0.74	-0.77	1	1	0	300	300	0
4/3/2024 21:31	45702	LIND_T2	0	1	1	0	0.6	0.6	-0.42	-0.52	0	0	0	0	0	0
4/3/2024 21:31	52502	PROG_T2	0	0	0	0	0	0	0.43	0.39	0	0	0	0	0	0
4/3/2024 21:31	46203	DANV_T2	98	165	67	0.48	0.55	0.07	-0.97	-0.97	0	0	0	0	0	0
4/3/2024 21:31	43102	SMIL_T2	7	7	0	0.57	0.79	0.22	0	0	0	0	0	0	0	0
4/3/2024 21:31	44301	BEAV_T2	0	1	1	0	0.1	0.1	0.11	0.08	1	1	0	600	600	0
4/3/2024 21:31	44302	BEAV_T2	0	38	38	0	0.19	0.19	0	0	0	0	0	0	0	0
4/3/2024 21:31	14403	SSLA_T1	0	0	0	0	0	0	0.88	0.83	0	0	0	0	0	0
4/3/2024 21:31	43103	SMIL_T2	19	21	2	0.53	0.73	0.2	0	0	0	0	0	0	0	0
4/3/2024 21:31	43105	SMIL_T2	19	52	33	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/3/2024 21:31	14404	SSLA_T1	1	2	1	5	2.85	-2.15	0	0	0	0	0	0	0	0
4/3/2024 21:32	52403	GRPA_T2	0	133	133	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 21:32	52404	GRPA_T2	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/3/2024 21:32	56802	BENV_T2	93	71	-22	0.26	0.23	-0.03	-2.65	-2.7	0	0	0	0	0	0
4/3/2024 21:32	10801	CHHI_T1	0	0	0	0	0	0	-1.46	-1.5	2	2	0	1500	1500	0
4/3/2024 21:32	52402	GRPA_T2	4	73	69	1.53	1.88	0.35	0	0	0	0	0	0	0	0
4/3/2024 21:32	52401	GRPA_T2	0	628	628	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 21:32	44301	BEAV_T2	0	1	1	0	0.1	0.1	0.11	0.08	1	1	0	600	600	0
4/3/2024 21:32	44302	BEAV_T2	0	38	38	0	0.19	0.19	0	0	0	0	0	0	0	0
4/3/2024 21:33	56501	ROCK_T2	4	16	12	0.13	0.28	0.15	-0.01	-0.01	0	0	0	0	0	0
4/3/2024 21:33	56803	BENV_T1	1	5	4	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/3/2024 21:33	56801	BENV_T1	15	10	-5	0.61	0.72	0.11	-0.7	-0.73	1	1	0	600	600	0
4/3/2024 21:34	44301	BEAV_T2	0	1	1	0	0.1	0.1	0.11	0.08	1	1	0	600	600	0
4/3/2024 21:34	44302	BEAV_T2	0	38	38	0	0.19	0.19	0	0	0	0	0	0	0	0
4/3/2024 21:35	67502	WEWI_T2	0	10	10	0	0.1	0.1	-1.46	-1.39	1	1	0	900	900	0
4/3/2024 21:35	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 21:35	57401	SPAN_T1	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
4/3/2024 21:35	64801	MONE_T2	0	0	0	0	0	0	0.38	0.34	0	0	0	0	0	0
4/3/2024 21:35	57403	SPAN_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
4/3/2024 21:36	58401	MORO_T1	0	0	0	0	0	0	-1.16	-1.17	1	1	0	600	600	0
4/3/2024 21:36	52403	GRPA_T2	0	133	133	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 21:36	52404	GRPA_T2	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/3/2024 21:36	52401	GRPA_T2	0	628	628	0	0	0	0	0	0	0	0	0	0	0
4/3/2024 21:36	52402	GRPA_T2	4	73	69	1.53	1.88	0.35	-0.78	-0.79	0	0	0	0	0	0
4/3/2024 21:43	52502	PROG_T2	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
4/3/2024 21:50	67901	WNHO_T2	54	11	-43	0.22	0.18	-0.04	-0.48	-0.48	0	0	0	0	0	0
4/3/2024 21:52	65901	SAKR_T2	0	0	0	0	0	0	-1.45	-1.48	1	1	0	900	900	0
4/3/2024 21:53	56802	BENV_T2	71	2	-69	0.23	0.25	0.02	-0.68	-1.4	0	0	0	0	0	0
4/3/2024 21:55	46004	BERW_T2	0	0	0	0	0	0	-0.33	-0.39	0	0	0	0	0	0
4/3/2024 22:00	53902	HALI_T2	1	1	0	5.7	4.8	-0.9	0	0	0	0	0	0	0	0
4/3/2024 22:00	53901	HALI_T2	1	2	1	1	0.15	-0.85	0	0	0	0	0	0	0	0
4/3/2024 22:00	53903	HALI_T2	2	2	0	1.35	0.35	-1	-0.14	-0.15	0	0	0	0	0	0
4/3/2024 22:10	59201	THOM_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/3/2024 22:10	59202	THOM_T1	25	0	-25	0.16	0	-0.16	0	0	0	0	0	0	0	0
4/4/2024 0:20	61102	BERK_T5	0	0	0	0	0	0	0.59	0.55	1	1	0	300	300	0
4/4/2024 0:22	61102	BERK_T5	0	0	0	0	0	0	0.59	0.55	1	1	0	300	300	0
4/4/2024 0:24	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 1:58	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
4/4/2024 1:58	53901	HALI_T2	1	2	1	1	0.7	-0.3	0	0	0	0	0	0	0	0
4/4/2024 1:58	53903	HALI_T2	2	2	0	0.7	0.95	0.25	-0.16	-0.18	0	0	0	0	0	0
4/4/2024 2:14	53901	HALI_T2	1	2	1	1	0.7	-0.3	0	0	0	0	0	0	0	0
4/4/2024 2:14	53902	HALI_T2	1	1	0	5.2	5.5	0.3	0	0	0	0	0	0	0	0
4/4/2024 2:14	53903	HALI_T2	2	2	0	0.75	0.95	0.2	-0.18	-0.15	0	0	0	0	0	0
4/4/2024 4:54	28604	BLYT_T2	0	1	1	0	0	0	-1.23	-1.21	0	0	0	0	0	0
4/4/2024 5:34	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 5:34	40502	CRES_T2	6	7	1	0.13	0.16	0.03	-0.93	-0.97	0	0	0	0	0	0
4/4/2024 8:03	60605	NCOL_T2	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/4/2024 8:08	56802	BENV_T2	0	56	56	0	0.17	0.17	-1.31	-1.33	0	0	0	0	0	0
4/4/2024 8:10	56802	BENV_T2	0	56	56	0	0.17	0.17	-1.31	-1.33	0	0	0	0	0	0
4/4/2024 8:12	45501	DERR_T2	0	1	1	0	0	0	0.83	0.82	2	2	0	1800	1800	0
4/4/2024 8:12	46203	DANV_T2	4	0	-4	0.2	0	-0.2	-1.73	-1.68	0	0	0	0	0	0
4/4/2024 8:18	54201	PENN_T1	103	99	-4	0.34	0.31	-0.03	-1.24	-1.26	0	0	0	0	0	0
4/4/2024 8:18	60605	NCOL_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/4/2024 8:18	54205	PENN_T1	7	0	-7	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/4/2024 8:18	54203	PENN_T1	19	18	-1	0.69	0.69	0	0	0	0	0	0	0	0	0
4/4/2024 8:19	24902	WHHA_T1	48	82	34	0.72	0.71	-0.01	0	0	0	0	0	0	0	0
4/4/2024 8:21	60605	NCOL_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/4/2024 8:24	67402	WAKE_T2	0	0	0	0	0	0	1.1	1.12	0	0	0	0	0	0
4/4/2024 8:30	64702	LITI_T2	0	0	0	0	0	0	-0.76	-0.74	0	0	0	0	0	0
4/4/2024 8:53	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 8:53	40502	CRES_T2	3	3	0	0.1	0.1	0	-0.67	-0.73	0	0	0	0	0	0
4/4/2024 9:01	55002	NEWP_T1	7	8	1	0.9	0.84	-0.06	-0.18	-0.2	0	0	0	0	0	0
4/4/2024 9:02	55002	NEWP_T1	7	8	1	0.9	0.84	-0.06	-0.18	-0.2	0	0	0	0	0	0
4/4/2024 9:04	55002	NEWP_T1	7	8	1	0.9	0.84	-0.06	-0.18	-0.2	0	0	0	0	0	0
4/4/2024 9:05	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 9:10	10705	CATA_T2	0	1	1	0	0.5	0.5	-0.9	-0.92	1	1	0	900	900	0
4/4/2024 9:15	52402	GRPA_T2	8	5	-3	0.89	1	0.11	-0.87	-0.9	0	0	0	0	0	0
4/4/2024 9:15	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 9:15	52401	GRPA_T2	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
4/4/2024 9:17	55001	NEWP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/4/2024 9:17	55002	NEWP_T1	8	7	-1	0.83	0.87	0.04	-0.4	-0.4	0	0	0	0	0	0
4/4/2024 9:18	52402	GRPA_T2	8	5	-3	0.89	1	0.11	-0.87	-0.9	0	0	0	0	0	0
4/4/2024 9:18	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 9:18	52401	GRPA_T2	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
4/4/2024 9:19	55001	NEWP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/4/2024 9:19	55002	NEWP_T1	8	7	-1	0.83	0.87	0.04	-0.2	-0.2	0	0	0	0	0	0
4/4/2024 9:23	24902	WHHA_T1	165	220	55	1.29	0.94	-0.35	0	0	0	0	0	0	0	0
4/4/2024 9:26	41801	GOCI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/4/2024 9:26	53601	DALM_T2	1	1	0	0.9	0.6	-0.3	0.14	0.16	0	0	0	0	0	0
4/4/2024 9:26	41802	GOCI_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/4/2024 9:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/4/2024 9:31	59302	MCAL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 9:31	59301	MCAL_T1	0	0	0	0	0	0	-1.51	-1.57	1	1	0	600	600	0
4/4/2024 9:32	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 9:32	52402	GRPA_T2	3	5	2	1.5	1	-0.5	0	0	0	0	0	0	0	0
4/4/2024 9:32	52403	GRPA_T2	1	1	0	0.3	0	-0.3	0.09	0.07	0	0	0	0	0	0
4/4/2024 9:35	56501	ROCK_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 9:35	43202	MVIL_T2	2	13	11	1.05	0.16	-0.89	-0.54	-0.52	0	0	0	0	0	0
4/4/2024 9:36	59101	WALK_T2	0	0	0	0	0	0	1.75	1.85	0	0	0	0	0	0
4/4/2024 9:37	56802	BENV_T2	39	3	-36	0.15	0.43	0.28	-1.3	-1.25	0	0	0	0	0	0
4/4/2024 9:37	59101	WALK_T2	0	0	0	0	0	0	1.75	1.85	0	0	0	0	0	0
4/4/2024 9:37	56501	ROCK_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 9:38	56501	ROCK_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 9:39	67401	WAKE_T2	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/4/2024 9:39	67402	WAKE_T2	0	0	0	0	0	0	1.06	1.09	0	0	0	0	0	0
4/4/2024 9:39	56802	BENV_T2	39	3	-36	0.15	0.43	0.28	-5	-5.15	0	0	0	0	0	0
4/4/2024 9:44	56501	ROCK_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 9:46	43202	MVIL_T2	1	27	26	0.5	0.19	-0.31	-0.52	-0.51	0	0	0	0	0	0
4/4/2024 9:48	56802	BENV_T2	3	3	0	0.43	0.6	0.17	-1.25	-1.29	0	0	0	0	0	0
4/4/2024 9:49	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 9:50	63501	HEID_TBK1-2	66	1	-65	8.85	1.5	-7.35	-0.01	0.01	1	1	0	900	900	0
4/4/2024 9:53	20403	ASHF_T2	3	8	5	0.37	0.41	0.04	1.02	0.8	0	0	0	0	0	0
4/4/2024 9:54	67605	WARW_T1	1	1	0	0.1	0.5	0.4	-0.93	-0.92	0	0	0	0	0	0
4/4/2024 9:55	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 9:56	60803	BUCK_T1	3	7	4	0.13	0.23	0.1	0	0	0	0	0	0	0	0
4/4/2024 9:56	60801	BUCK_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
4/4/2024 9:57	10801	CHHI_T1	0	2	2	0	0.15	0.15	-1.57	-1.6	2	2	0	1800	1800	0
4/4/2024 10:00	48302	ORWI_T2	2	2	0	0.5	0.9	0.4	-0.09	-0.06	0	0	0	0	0	0
4/4/2024 10:00	12505	MITR_T2	0	1	1	0	0	0	1.04	1.34	0	0	0	0	0	0
4/4/2024 10:00	63803	HEMP_T1	2	11	9	0.45	0.28	-0.17	0	0	0	0	0	0	0	0
4/4/2024 10:00	53902	HALI_T2	1	1	0	5.2	5.6	0.4	0	0	0	0	0	0	0	0
4/4/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	-0.16	-0.11	1	1	0	600	600	0
4/4/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
4/4/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
4/4/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.08	0.01	0	0	0	0	0	0
4/4/2024 10:00	40502	CRES_T2	10	0	-10	0.21	0	-0.21	-0.26	-0.25	0	0	0	0	0	0
4/4/2024 10:00	24104	EHAZ_T1	39	33	-6	0.15	0.15	0	0	0	0	0	0	0	0	0
4/4/2024 10:00	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 10:00	46301	ROHR_T1	0	23	23	0	0.15	0.15	0	0	0	0	0	0	0	0
4/4/2024 10:00	62605	ENGL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 10:00	62607	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 10:00	67402	WAKE_T2	0	1	1	0	0.1	0.1	2.19	2.16	0	0	0	0	0	0
4/4/2024 10:00	53903	HALI_T2	2	2	0	1.3	1.6	0.3	-0.08	-0.1	0	0	0	0	0	0
4/4/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 10:00	67401	WAKE_T2	2	4	2	0.35	0.43	0.08	0	0	0	0	0	0	0	0
4/4/2024 10:00	58803	COCO_T1	1	1	0	2.4	2.9	0.5	0	0	0	0	0	0	0	0
4/4/2024 10:00	53901	HALI_T2	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
4/4/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
4/4/2024 10:00	63802	HEMP_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/4/2024 10:00	40101	HUNT_T2	2	0	-2	0.5	0	-0.5	-1.2	-1.05	0	0	0	0	0	0
4/4/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
4/4/2024 10:00	57304	MOAL_T2	0	8	8	0	1.5	1.5	-0.82	-0.89	0	0	0	0	0	0
4/4/2024 10:00	42301	MOWR_T2	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
4/4/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
4/4/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-0.71	-0.71	1	1	0	900	900	0
4/4/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	0.73	0.8	2	2	0	1800	1800	0
4/4/2024 10:00	56501	ROCK_T2	1	8	7	0.1	0.39	0.29	-0.03	-0.03	0	0	0	0	0	0
4/4/2024 10:00	24105	EHAZ_T1	4	4	0	6.28	6.4	0.12	-0.64	-0.63	0	0	0	0	0	0
4/4/2024 10:00	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 10:00	45602	WOOL_T1	0	1	1	0	0.1	0.1	0.61	0.59	0	0	0	0	0	0
4/4/2024 10:00	63804	HEMP_T1	1	2	1	6.8	3.5	-3.3	0	0	0	0	0	0	0	0
4/4/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	0.03	0.09	1	1	0	1200	1200	0
4/4/2024 10:00	39601	MYFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/4/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
4/4/2024 10:00	63801	HEMP_T1	3	7	4	0.23	0.33	0.1	0.95	0.36	0	0	0	0	0	0
4/4/2024 10:00	25601	ARRO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 10:00	67605	WARW_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/4/2024 10:00	25603	ARRO_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
4/4/2024 10:00	12502	MITR_T2	1	1	0	6.7	6.9	0.2	0	0	0	0	0	0	0	0
4/4/2024 10:00	57403	SPAN_T1	15	137	122	0.28	0.32	0.04	0	0	0	0	0	0	0	0
4/4/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
4/4/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.36	-0.19	1	1	0	600	600	0
4/4/2024 10:00	46302	ROHR_T1	2	4	2	3.5	2.35	-1.15	0.19	0.22	0	0	0	0	0	0
4/4/2024 10:00	60803	BUCK_T1	5	7	2	0.14	0.26	0.12	0	0	0	0	0	0	0	0
4/4/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.01	0.01	2	2	0	1500	1500	0
4/4/2024 10:00	41902	REED_T1	0	5	5	0	0.1	0.1	3.6	3.67	0	0	0	0	0	0
4/4/2024 10:00	29402	BELT_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
4/4/2024 10:00	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
4/4/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	-0.44	-0.51	1	1	0	600	600	0
4/4/2024 10:00	57401	SPAN_T1	4	29	25	0.48	0.39	-0.09	-3.56	-3.62	3	3	0	1800	1800	0
4/4/2024 10:00	57303	MOAL_T2	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
4/4/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.5	-0.48	0	0	0	0	0	0
4/4/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
4/4/2024 10:00	24102	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 10:02	53601	DALM_T2	1	2	1	0.2	0.4	0.2	0.14	0.1	0	0	0	0	0	0
4/4/2024 10:06	60803	BUCK_T1	5	7	2	0.14	0.26	0.12	0	0	0	0	0	0	0	0
4/4/2024 10:06	63401	HONY_T1	0	0	0	0	0	0	0.94	0.97	0	0	0	0	0	0
4/4/2024 10:06	60801	BUCK_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
4/4/2024 10:07	42902	MIDD_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
4/4/2024 10:07	58001	WCAR_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
4/4/2024 10:07	62607	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 10:07	58003	WCAR_T1	1	1	0	0.2	0.8	0.6	0	0	1	1	0	600	600	0
4/4/2024 10:07	62605	ENGL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 10:07	46203	DANV_T2	16	83	67	0.2	0.36	0.16	0	0	0	0	0	0	0	0
4/4/2024 10:07	46302	ROHR_T1	2	4	2	3.5	2.35	-1.15	0.19	0.22	0	0	0	0	0	0
4/4/2024 10:07	46206	DANV_T2	0	0	0	0	0	0	1.97	1.93	1	1	0	1200	1200	0
4/4/2024 10:07	57403	SPAN_T1	15	137	122	0.28	0.32	0.04	0	0	0	0	0	0	0	0
4/4/2024 10:07	42903	MIDD_T2	2	2	0	0.15	1	0.85	0.58	0.64	1	1	0	1200	1200	0
4/4/2024 10:07	57401	SPAN_T1	4	29	25	0.48	0.39	-0.09	-1.19	-1.21	1	1	0	600	600	0
4/4/2024 10:07	46301	ROHR_T1	0	23	23	0	0.15	0.15	0	0	0	0	0	0	0	0
4/4/2024 10:07	62604	ENGL_T1	0	0	0	0	0	0	-0.36	-0.19	1	1	0	600	600	0
4/4/2024 10:07	45602	WOOL_T1	0	1	1	0	0.1	0.1	0.61	0.59	0	0	0	0	0	0
4/4/2024 10:07	60701	BREC_T1	0	0	0	0	0	0	0.1	0.24	1	2	1	600	1200	600
4/4/2024 10:07	10801	CHHI_T1	0	2	2	0	0.15	0.15	-1.57	-1.6	2	2	0	1800	1800	0
4/4/2024 10:08	53802	MBRG_T2	0	0	0	0	0	0	0.71	0.81	0	0	0	0	0	0
4/4/2024 10:08	52001	LING_T1	0	0	0	0	0	0	0.25	0.2	0	0	0	0	0	0
4/4/2024 10:08	56802	BENV_T2	1	79	78	0.9	0.21	-0.69	-2.5	-2.58	0	0	0	0	0	0
4/4/2024 10:08	10801	CHHI_T1	0	2	2	0	0.15	0.15	-0.8	-0.83	1	1	0	900	900	0
4/4/2024 10:08	46203	DANV_T2	16	83	67	0.2	0.36	0.16	-0.95	-0.93	0	0	0	0	0	0
4/4/2024 10:08	20403	ASHF_T2	8	20	12	0.41	0.34	-0.07	0.8	0.89	0	0	0	0	0	0
4/4/2024 10:09	62604	ENGL_T1	0	0	0	0	0	0	-0.38	-0.31	2	2	0	1200	1200	0
4/4/2024 10:09	67402	WAKE_T2	0	1	1	0	0.1	0.1	1.08	1.08	0	0	0	0	0	0
4/4/2024 10:09	67401	WAKE_T2	2	4	2	0.35	0.43	0.08	0	0	0	0	0	0	0	0
4/4/2024 10:09	62605	ENGL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 10:09	62607	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 10:09	20403	ASHF_T2	8	20	12	0.41	0.34	-0.07	0.8	0.89	0	0	0	0	0	0
4/4/2024 10:09	56802	BENV_T2	1	79	78	0.9	0.21	-0.69	-1.25	-1.29	0	0	0	0	0	0
4/4/2024 10:10	62604	ENGL_T1	0	0	0	0	0	0	-0.19	-0.15	1	1	0	600	600	0
4/4/2024 10:10	62607	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 10:10	62605	ENGL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 10:10	63501	HEID_TBK1-2	1	56	55	0.8	1.9	1.1	-0.03	-0.07	1	1	0	900	900	0
4/4/2024 10:10	56802	BENV_T2	1	79	78	0.9	0.21	-0.69	-6.26	-6.45	0	0	0	0	0	0
4/4/2024 10:10	67605	WARW_T1	1	1	0	0.5	0.3	-0.2	-1.85	-1.88	0	0	0	0	0	0
4/4/2024 10:11	45501	DERR_T2	0	0	0	0	0	0	0.8	0.67	2	2	0	1800	1800	0
4/4/2024 10:11	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 10:13	46203	DANV_T2	16	83	67	0.2	0.36	0.16	-1.9	-1.87	0	0	0	0	0	0
4/4/2024 10:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 10:14	56802	BENV_T2	1	79	78	0.9	0.21	-0.69	-2.5	-2.58	0	0	0	0	0	0
4/4/2024 10:15	64702	LITI_T2	0	0	0	0	0	0	-0.67	-0.79	0	0	0	0	0	0
4/4/2024 10:16	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/4/2024 10:16	52402	GRPA_T2	5	5	0	0.94	1.06	0.12	-0.88	-0.84	0	0	0	0	0	0
4/4/2024 10:16	24902	WHHA_T1	46	44	-2	0.56	0.6	0.04	0	0	0	0	0	0	0	0
4/4/2024 10:16	52403	GRPA_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/4/2024 10:17	55001	NEWP_T1	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/4/2024 10:17	55002	NEWP_T1	7	7	0	0.96	1.31	0.35	-0.21	-0.21	0	0	0	0	0	0
4/4/2024 10:18	54205	PENN_T1	0	120	120	0	0.36	0.36	0	0	0	0	0	0	0	0
4/4/2024 10:18	52402	GRPA_T2	5	5	0	0.94	1.06	0.12	-0.88	-0.84	0	0	0	0	0	0
4/4/2024 10:18	52403	GRPA_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/4/2024 10:18	54203	PENN_T1	25	397	372	0.74	0.37	-0.37	0.11	0.14	0	0	0	0	0	0
4/4/2024 10:18	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/4/2024 10:18	54201	PENN_T1	124	314	190	0.36	0.55	0.19	-2.46	-2.35	0	0	0	0	0	0
4/4/2024 10:19	57401	SPAN_T1	6	93	87	0.5	0.35	-0.15	-1.21	-1.2	1	1	0	600	600	0
4/4/2024 10:19	54205	PENN_T1	0	120	120	0	0.36	0.36	0	0	0	0	0	0	0	0
4/4/2024 10:19	54203	PENN_T1	25	397	372	0.74	0.37	-0.37	0.06	0.07	0	0	0	0	0	0
4/4/2024 10:19	55001	NEWP_T1	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/4/2024 10:19	55002	NEWP_T1	7	7	0	0.96	1.31	0.35	-0.21	-0.21	0	0	0	0	0	0
4/4/2024 10:19	57403	SPAN_T1	18	158	140	0.29	0.35	0.06	0	0	0	0	0	0	0	0
4/4/2024 10:19	54201	PENN_T1	124	314	190	0.36	0.55	0.19	0	0	0	0	0	0	0	0
4/4/2024 10:20	57403	SPAN_T1	18	158	140	0.29	0.35	0.06	0	0	0	0	0	0	0	0
4/4/2024 10:20	57401	SPAN_T1	6	93	87	0.5	0.35	-0.15	-2.41	-2.41	2	2	0	1200	1200	0
4/4/2024 10:20	24902	WHHA_T1	46	44	-2	0.56	0.6	0.04	0	0	0	0	0	0	0	0
4/4/2024 10:21	55001	NEWP_T1	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/4/2024 10:21	67502	WEWI_T2	1	3	2	0.3	0.57	0.27	-0.05	-0.18	0	0	0	0	0	0
4/4/2024 10:21	55002	NEWP_T1	7	7	0	0.96	1.31	0.35	-0.21	-0.21	0	0	0	0	0	0
4/4/2024 10:22	56504	ROCK_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
4/4/2024 10:22	56501	ROCK_T2	2	9	7	0.1	0.38	0.28	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 10:22	64702	LITI_T2	0	0	0	0	0	0	-0.67	-0.79	0	0	0	0	0	0
4/4/2024 10:22	67502	WEWI_T2	1	3	2	0.3	0.57	0.27	-0.05	-0.18	0	0	0	0	0	0
4/4/2024 10:23	10707	CATA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/4/2024 10:23	10705	CATA_T2	0	1	1	0	0.3	0.3	-0.96	-0.92	1	1	0	900	900	0
4/4/2024 10:23	10701	CATA_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/4/2024 10:23	57401	SPAN_T1	6	93	87	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
4/4/2024 10:23	57403	SPAN_T1	18	158	140	0.29	0.35	0.06	0.04	0.03	0	0	0	0	0	0
4/4/2024 10:24	57403	SPAN_T1	18	158	140	0.29	0.35	0.06	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/4/2024 10:24	67402	WAKE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/4/2024 10:24	17002	RIRO_T2	5	2	-3	0.16	0.1	-0.06	0.6	0.64	0	0	0	0	0	0
4/4/2024 10:24	67401	WAKE_T2	4	4	0	0.35	0.3	-0.05	-0.85	-0.81	0	0	0	0	0	0
4/4/2024 10:24	57401	SPAN_T1	6	93	87	0.5	0.35	-0.15	-1.2	-1.15	1	1	0	600	600	0
4/4/2024 10:24	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 10:25	62605	ENGL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 10:25	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 10:25	62607	ENGL_T1	0	1	1	0	0.2	0.2	-1.1	-1.1	1	1	0	300	300	0
4/4/2024 10:25	54505	ENOL_T2	0	2	2	0	0.3	0.3	-1.23	-1.24	1	1	0	600	600	0
4/4/2024 10:25	54502	ENOL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/4/2024 10:25	56802	BENV_T2	3	111	108	0.6	0.24	-0.36	-2.58	-2.63	0	0	0	0	0	0
4/4/2024 10:26	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 10:26	54503	ENOL_T2	0	0	0	0	0	0	-1.96	-1.96	1	1	0	600	600	0
4/4/2024 10:26	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 10:26	54502	ENOL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/4/2024 10:26	67605	WARW_T1	1	3	2	0.3	0.17	-0.13	-0.94	-0.92	0	0	0	0	0	0
4/4/2024 10:26	54505	ENOL_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/4/2024 10:27	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 10:27	54505	ENOL_T2	0	2	2	0	0.3	0.3	-1.23	-1.24	1	1	0	600	600	0
4/4/2024 10:27	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 10:27	54502	ENOL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/4/2024 10:28	54504	ENOL_T2	0	1	1	0	0.2	0.2	-0.98	-1.02	1	1	0	600	600	0
4/4/2024 10:28	54505	ENOL_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/4/2024 10:28	54503	ENOL_T2	0	0	0	0	0	0	-3.92	-3.92	2	2	0	1200	1200	0
4/4/2024 10:28	54502	ENOL_T2	0	1	1	0	0.7	0.7	-1.16	-1.17	1	1	0	600	600	0
4/4/2024 10:29	54501	ENOL_T2	0	0	0	0	0	0	-1	-1.04	2	2	0	1200	1200	0
4/4/2024 10:29	63601	LETO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 10:29	63602	LETO_T1	0	2	2	0	0.45	0.45	-0.32	-0.23	0	0	0	0	0	0
4/4/2024 10:29	54502	ENOL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/4/2024 10:29	59301	MCAL_T1	0	0	0	0	0	0	-1.57	-1.57	1	1	0	600	600	0
4/4/2024 10:29	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 10:29	54505	ENOL_T2	0	2	2	0	0.3	0.3	-1.23	-1.24	1	1	0	600	600	0
4/4/2024 10:29	59302	MCAL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 10:29	56802	BENV_T2	3	111	108	0.6	0.24	-0.36	-1.29	-1.32	0	0	0	0	0	0
4/4/2024 10:30	50103	HARR_T3	0	2	2	0	0.55	0.55	0.34	0.39	0	0	0	0	0	0
4/4/2024 10:30	54502	ENOL_T2	1	1	0	0.6	0.8	0.2	-2.32	-2.33	2	2	0	1200	1200	0
4/4/2024 10:30	54505	ENOL_T2	1	2	1	0.4	0.35	-0.05	-1.23	-1.24	1	1	0	600	600	0
4/4/2024 10:30	50105	HARR_T3	8	8	0	6.2	6.16	-0.04	0	0	0	0	0	0	0	0
4/4/2024 10:30	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 10:30	50102	HARR_T3	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/4/2024 10:30	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 10:30	50201	HARR_T3	2	2	0	4.65	4.9	0.25	0	0	0	0	0	0	0	0
4/4/2024 10:31	50201	HARR_T3	2	2	0	4.65	4.9	0.25	0	0	0	0	0	0	0	0
4/4/2024 10:31	50103	HARR_T3	0	2	2	0	0.55	0.55	0.34	0.39	0	0	0	0	0	0
4/4/2024 10:31	50102	HARR_T3	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/4/2024 10:31	40101	HUNT_T2	0	4	4	0	1	1	-0.3	-0.3	0	0	0	0	0	0
4/4/2024 10:31	50105	HARR_T3	8	8	0	6.2	6.16	-0.04	0	0	0	0	0	0	0	0
4/4/2024 10:31	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 10:32	43202	MVIL_T2	16	46	30	0.17	0.21	0.04	-0.57	-0.53	0	0	0	0	0	0
4/4/2024 10:32	54502	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/4/2024 10:32	54505	ENOL_T2	1	2	1	0.4	0.35	-0.05	-1.23	-1.24	1	1	0	600	600	0
4/4/2024 10:32	64101	REFR_T1	2	3	1	0.75	0.47	-0.28	-0.86	-0.87	0	0	0	0	0	0
4/4/2024 10:32	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 10:33	65004	NEFF_T2	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
4/4/2024 10:33	64203	KINZ_T1	0	0	0	0	0	0	1.16	1.13	1	1	0	600	600	0
4/4/2024 10:33	65001	NEFF_T2	1	3	2	0.1	0.17	0.07	-0.49	-0.52	1	1	0	1200	1200	0
4/4/2024 10:33	64204	KINZ_T1	1	2	1	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
4/4/2024 10:33	65005	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/4/2024 10:33	64202	KINZ_T1	3	3	0	0.33	0.53	0.2	0	0	0	0	0	0	0	0
4/4/2024 10:33	65003	NEFF_T2	2	5	3	0.35	0.4	0.05	0	0	0	0	0	0	0	0
4/4/2024 10:34	43202	MVIL_T2	16	46	30	0.17	0.21	0.04	-0.57	-0.53	0	0	0	0	0	0
4/4/2024 10:34	64801	MONE_T2	6	7	1	0.32	0.36	0.04	0	0	0	0	0	0	0	0
4/4/2024 10:34	43201	MVIL_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
4/4/2024 10:34	64802	MONE_T2	22	33	11	0.3	0.36	0.06	0.32	0.32	0	0	0	0	0	0
4/4/2024 10:34	67204	TEHI_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
4/4/2024 10:35	65003	NEFF_T2	2	5	3	0.35	0.4	0.05	0	0	0	0	0	0	0	0
4/4/2024 10:35	67204	TEHI_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
4/4/2024 10:35	65005	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/4/2024 10:35	66703	STRA_T1	2	6	4	0.25	0.33	0.08	0.04	-0.05	0	0	0	0	0	0
4/4/2024 10:35	65004	NEFF_T2	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
4/4/2024 10:35	16402	MOPO_T1	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
4/4/2024 10:35	65001	NEFF_T2	1	3	2	0.1	0.17	0.07	-0.49	-0.52	1	1	0	1200	1200	0
4/4/2024 10:35	66701	STRA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/4/2024 10:35	13704	SCHC_T2	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
4/4/2024 10:36	56501	ROCK_T2	8	8	0	0.39	0.34	-0.05	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 10:36	56504	ROCK_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
4/4/2024 10:36	57401	SPAN_T1	29	92	63	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
4/4/2024 10:36	57403	SPAN_T1	133	168	35	0.32	0.47	0.15	0.04	0.03	0	0	0	0	0	0
4/4/2024 10:37	66501	SMAN_T2	2	4	2	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
4/4/2024 10:37	66505	SMAN_T2	3	3	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
4/4/2024 10:37	66503	SMAN_T2	6	7	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
4/4/2024 10:37	66502	SMAN_T2	10	8	-2	0.34	0.24	-0.1	0	0	0	0	0	0	0	0
4/4/2024 10:37	66504	SMAN_T2	3	3	0	0.3	0.27	-0.03	-0.74	-0.75	0	0	0	0	0	0
4/4/2024 10:38	56501	ROCK_T2	8	8	0	0.39	0.34	-0.05	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 10:38	26001	WDAM_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
4/4/2024 10:38	56504	ROCK_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
4/4/2024 10:40	57403	SPAN_T1	133	168	35	0.32	0.47	0.15	0	0	0	0	0	0	0	0
4/4/2024 10:40	56802	BENV_T2	79	139	60	0.21	0.24	0.03	-1.32	-1.31	0	0	0	0	0	0
4/4/2024 10:40	57401	SPAN_T1	29	92	63	0.39	0.35	-0.04	-1.15	-1.07	1	1	0	600	600	0
4/4/2024 10:42	56802	BENV_T2	79	139	60	0.21	0.24	0.03	-1.32	-1.31	0	0	0	0	0	0
4/4/2024 10:43	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
4/4/2024 10:43	53903	HALI_T2	2	2	0	1.6	1.5	-0.1	-0.08	-0.12	0	0	0	0	0	0
4/4/2024 10:43	56802	BENV_T2	79	139	60	0.21	0.24	0.03	-1.32	-1.31	0	0	0	0	0	0
4/4/2024 10:43	53901	HALI_T2	2	3	1	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
4/4/2024 10:44	45702	LIND_T2	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
4/4/2024 10:45	55002	NEWP_T1	6	0	0	1	1.15	0.15	0	0	0	0	0	0	0	0
4/4/2024 10:45	55001	NEWP_T1	0	1	1	0	0.1	0.1	-0.56	-0.56	1	1	0	600	600	0
4/4/2024 10:46	46801	HEPB_T2	0	2	2	0	0.1	0.1	0.64	0.69	0	0	0	0	0	0
4/4/2024 10:46	53901	HALI_T2	3	1	-2	0.53	1	0.47	0	0	0	0	0	0	0	0
4/4/2024 10:46	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
4/4/2024 10:46	53903	HALI_T2	2	2	0	1.5	1.5	0	-0.08	-0.12	0	0	0	0	0	0
4/4/2024 10:47	53903	HALI_T2	2	2	0	1.5	1.5	0	-0.08	-0.12	0	0	0	0	0	0
4/4/2024 10:47	53901	HALI_T2	3	1	-2	0.53	1	0.47	0	0	0	0	0	0	0	0
4/4/2024 10:47	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
4/4/2024 10:48	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 10:48	64202	KINZ_T1	3	3	0	0.53	0.33	-0.2	0.89	0.82	0	0	0	0	0	0
4/4/2024 10:48	64204	KINZ_T1	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
4/4/2024 10:48	44601	SALE_T2	0	0	0	0	0	0	0.15	0.19	1	1	0	600	600	0
4/4/2024 10:49	67002	STHI_T2	0	2	2	0	0.2	0.2	0.57	0.56	0	0	0	0	0	0
4/4/2024 10:49	67001	STHI_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/4/2024 10:50	67002	STHI_T2	0	2	2	0	0.2	0.2	0.57	0.56	0	0	0	0	0	0
4/4/2024 10:50	55002	NEWP_T1	6	6	0	1	1.15	0.15	0	0	0	0	0	0	0	0
4/4/2024 10:50	45402	WBLO_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
4/4/2024 10:50	55001	NEWP_T1	0	1	1	0	0.1	0.1	-0.56	-0.56	1	1	0	600	600	0
4/4/2024 10:50	67001	STHI_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/4/2024 10:51	15701	TANN_T1	1	1	0	4.2	4.3	0.1	0	0	0	0	0	0	0	0
4/4/2024 10:51	67001	STHI_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/4/2024 10:51	67002	STHI_T2	0	2	2	0	0.2	0.2	0.57	0.56	0	0	0	0	0	0
4/4/2024 10:51	15704	TANN_T1	0	0	0	0	0	0	-1.1	-1.04	0	0	0	0	0	0
4/4/2024 10:51	44601	SALE_T2	0	0	0	0	0	0	0.15	0.19	1	1	0	600	600	0
4/4/2024 10:52	67401	WAKE_T2	1	0	-1	0.2	0	-0.2	-0.81	-0.88	0	0	0	0	0	0
4/4/2024 10:52	67001	STHI_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/4/2024 10:52	67002	STHI_T2	0	2	2	0	0.2	0.2	0.57	0.56	0	0	0	0	0	0
4/4/2024 10:53	57401	SPAN_T1	92	15	-77	0.39	0.32	-0.07	0	0	0	0	0	0	0	0
4/4/2024 10:53	56501	ROCK_T2	8	3	-5	0.34	0.57	0.23	0	0	0	0	0	0	0	0
4/4/2024 10:53	67001	STHI_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/4/2024 10:53	60803	BUCK_T1	11	4	-7	0.2	0.15	-0.05	-0.49	-0.52	1	1	0	600	600	0
4/4/2024 10:53	60101	COCA_T1	1	2	1	0.1	0.2	0.1	0.43	0.5	0	0	0	0	0	0
4/4/2024 10:53	57403	SPAN_T1	149	171	22	0.35	0.54	0.19	0.03	0.07	0	0	0	0	0	0
4/4/2024 10:53	67002	STHI_T2	0	2	2	0	0.2	0.2	0.56	0.59	0	0	0	0	0	0
4/4/2024 10:53	56504	ROCK_T2	3	0	-3	0.37	0	-0.37	83.96	83.96	0	0	0	0	0	0
4/4/2024 10:53	60801	BUCK_T1	3	2	-1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
4/4/2024 10:54	60101	COCA_T1	1	2	1	0.1	0.2	0.1	0.43	0.5	0	0	0	0	0	0
4/4/2024 10:55	57401	SPAN_T1	92	15	-77	0.39	0.32	-0.07	-1.07	-1.08	1	1	0	600	600	0
4/4/2024 10:55	60701	BREC_T1	1	0	-1	0.1	0	-0.1	0.08	0.04	1	1	0	600	600	0
4/4/2024 10:55	57403	SPAN_T1	149	171	22	0.35	0.54	0.19	0	0	0	0	0	0	0	0
4/4/2024 10:55	45501	DERR_T2	0	0	0	0	0	0	0.7	0.62	2	2	0	1800	1800	0
4/4/2024 10:55	45402	WBLO_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
4/4/2024 10:56	60803	BUCK_T1	11	4	-7	0.2	0.15	-0.05	-0.49	-0.52	1	1	0	600	600	0
4/4/2024 10:56	60801	BUCK_T1	3	2	-1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
4/4/2024 10:56	60701	BREC_T1	1	0	-1	0.1	0	-0.1	0.08	0.04	1	1	0	600	600	0
4/4/2024 10:57	57403	SPAN_T1	149	171	22	0.35	0.54	0.19	0.03	0.07	0	0	0	0	0	0
4/4/2024 10:57	60701	BREC_T1	1	0	-1	0.1	0	-0.1	0.08	0.04	1	1	0	600	600	0
4/4/2024 10:57	57401	SPAN_T1	92	15	-77	0.39	0.32	-0.07	0	0	0	0	0	0	0	0
4/4/2024 11:00	54504	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/4/2024 11:00	58401	MORO_T1	0	2	2	0	0.3	0.3	-0.97	-0.95	1	1	0	600	600	0
4/4/2024 11:00	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/4/2024 11:00	54505	ENOL_T2	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/4/2024 11:00	54503	ENOL_T2	0	0	0	0	0	0	-1.95	-1.92	1	1	0	600	600	0
4/4/2024 11:01	51002	NHAR_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
4/4/2024 11:01	51004	NHAR_T1	14	13	-1	1.13	1.27	0.14	-0.42	-0.4	0	0	0	0	0	0
4/4/2024 11:01	64702	LITI_T2	0	0	0	0	0	0	-0.75	-0.72	0	0	0	0	0	0
4/4/2024 11:01	40101	HUNT_T2	4	8	4	0.88	0.2	-0.68	-0.28	-0.16	0	0	0	0	0	0
4/4/2024 11:02	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 11:02	55002	NEWP_T1	5	6	1	1.2	1.33	0.13	-0.21	-0.25	0	0	0	0	0	0
4/4/2024 11:02	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/4/2024 11:02	64101	REFR_T1	1	0	-1	0.1	0	-0.1	-0.92	-0.87	0	0	0	0	0	0
4/4/2024 11:02	52501	PROG_T1	0	0	0	0	0	0	0.39	0.51	1	1	0	300	300	0
4/4/2024 11:03	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/4/2024 11:03	54504	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/4/2024 11:03	67001	STHI_T2	2	5	3	0.25	0.4	0.15	0	0	0	0	0	0	0	0
4/4/2024 11:03	67002	STHI_T2	0	24	24	0	0.29	0.29	0.56	0.59	0	0	0	0	0	0
4/4/2024 11:03	54505	ENOL_T2	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/4/2024 11:03	54503	ENOL_T2	0	0	0	0	0	0	-3.9	-3.84	2	2	0	1200	1200	0
4/4/2024 11:03	40101	HUNT_T2	4	8	4	0.88	0.2	-0.68	-0.28	-0.16	0	0	0	0	0	0
4/4/2024 11:04	67001	STHI_T2	2	5	3	0.25	0.4	0.15	0	0	0	0	0	0	0	0
4/4/2024 11:04	64101	REFR_T1	1	0	-1	0.1	0	-0.1	-0.92	-0.87	0	0	0	0	0	0
4/4/2024 11:04	67002	STHI_T2	0	24	24	0	0.29	0.29	1.12	1.18	0	0	0	0	0	0
4/4/2024 11:04	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/4/2024 11:04	55002	NEWP_T1	5	6	1	1.2	1.33	0.13	-0.21	-0.25	0	0	0	0	0	0
4/4/2024 11:05	41902	REED_T1	0	3	3	0	0	0	1.16	1.23	0	0	0	0	0	0
4/4/2024 11:05	67002	STHI_T2	0	24	24	0	0.29	0.29	0.56	0.59	0	0	0	0	0	0
4/4/2024 11:05	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/4/2024 11:05	67001	STHI_T2	2	5	3	0.25	0.4	0.15	0	0	0	0	0	0	0	0
4/4/2024 11:06	41902	REED_T1	0	3	3	0	0	0	1.16	1.23	0	0	0	0	0	0
4/4/2024 11:06	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/4/2024 11:06	67203	TEHI_T1	1	2	1	0.3	0	-0.3	2.61	2.7	2	2	0	1200	1200	0
4/4/2024 11:06	67204	TEHI_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
4/4/2024 11:06	67001	STHI_T2	2	5	3	0.25	0.4	0.15	0	0	0	0	0	0	0	0
4/4/2024 11:06	67002	STHI_T2	0	24	24	0	0.29	0.29	0.56	0.59	0	0	0	0	0	0
4/4/2024 11:07	55105	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 11:07	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 11:07	66701	STRA_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/4/2024 11:07	66703	STRA_T1	2	3	1	0.2	0.47	0.27	-0.01	-0.09	0	0	0	0	0	0
4/4/2024 11:07	42601	TUSC_T1	17	2	-15	1.64	0	-1.64	0.39	-0.75	3	3	0	2400	2400	0
4/4/2024 11:08	42601	TUSC_T1	17	2	-15	1.64	0	-1.64	-0.75	-0.81	3	3	0	2400	2400	0
4/4/2024 11:08	67002	STHI_T2	0	24	24	0	0.29	0.29	0.59	0.61	0	0	0	0	0	0
4/4/2024 11:08	45602	WOOL_T1	0	1	1	0	0.2	0.2	0.61	0.59	0	0	0	0	0	0
4/4/2024 11:08	41902	REED_T1	0	3	3	0	0	0	1.23	1.19	0	0	0	0	0	0
4/4/2024 11:08	67001	STHI_T2	2	5	3	0.25	0.4	0.15	0	0	0	0	0	0	0	0
4/4/2024 11:08	56501	ROCK_T2	3	5	2	0.57	0.46	-0.11	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 11:08	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/4/2024 11:08	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 11:09	60101	COCA_T1	1	2	1	0.3	0.2	-0.1	0.5	0.38	0	0	0	0	0	0
4/4/2024 11:09	67001	STHI_T2	2	5	3	0.25	0.4	0.15	0	0	0	0	0	0	0	0
4/4/2024 11:09	45602	WOOL_T1	0	1	1	0	0.2	0.2	0.61	0.59	0	0	0	0	0	0
4/4/2024 11:09	67002	STHI_T2	0	24	24	0	0.29	0.29	0.59	0.61	0	0	0	0	0	0
4/4/2024 11:10	45602	WOOL_T1	0	1	1	0	0.2	0.2	0.61	0.59	0	0	0	0	0	0
4/4/2024 11:12	61801	EELI_T2	2	5	3	0.15	0.24	0.09	-0.64	-0.64	0	0	0	0	0	0
4/4/2024 11:13	54504	ENOL_T2	0	1	1	0	0.3	0.3	-1.03	-0.98	1	1	0	600	600	0
4/4/2024 11:13	54505	ENOL_T2	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/4/2024 11:13	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/4/2024 11:13	56501	ROCK_T2	3	5	2	0.57	0.46	-0.11	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 11:13	40101	HUNT_T2	4	8	4	0.88	0.2	-0.68	-0.16	-0.16	0	0	0	0	0	0
4/4/2024 11:14	45602	WOOL_T1	0	1	1	0	0.2	0.2	0.61	0.59	0	0	0	0	0	0
4/4/2024 11:14	40101	HUNT_T2	4	8	4	0.88	0.2	-0.68	-0.16	-0.16	0	0	0	0	0	0
4/4/2024 11:14	60101	COCA_T1	1	2	1	0.3	0.2	-0.1	0.5	0.38	0	0	0	0	0	0
4/4/2024 11:14	54505	ENOL_T2	2	2	0	0.3	0.6	0.3	-1.22	-1.25	1	1	0	600	600	0
4/4/2024 11:14	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/4/2024 11:14	16301	ALPA_T1	8	19	11	0.25	0.19	-0.06	-0.37	-0.38	0	0	0	0	0	0
4/4/2024 11:14	54503	ENOL_T2	0	0	0	0	0	0	-1.92	-1.93	1	1	0	600	600	0
4/4/2024 11:14	54504	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/4/2024 11:15	16302	ALPA_T2	0	0	0	0	0	0	0.82	0.85	0	0	0	0	0	0
4/4/2024 11:15	41801	GOCI_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/4/2024 11:15	40101	HUNT_T2	3	11	8	0.83	0.25	-0.58	-0.16	-0.16	0	0	0	0	0	0
4/4/2024 11:16	45602	WOOL_T1	1	2	1	0.1	0.25	0.15	0.61	0.59	0	0	0	0	0	0
4/4/2024 11:16	40101	HUNT_T2	3	11	8	0.83	0.25	-0.58	-0.16	-0.16	0	0	0	0	0	0
4/4/2024 11:17	52404	GRPA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/4/2024 11:17	52403	GRPA_T2	15	13	-2	0.56	0.35	-0.21	0.08	0.1	0	0	0	0	0	0
4/4/2024 11:17	52401	GRPA_T2	1	2	1	0.6	0.6	0	0	0	0	0	0	0	0	0
4/4/2024 11:17	59301	MCAL_T1	0	3	3	0	0.63	0.63	0	0	0	0	0	0	0	0
4/4/2024 11:17	59302	MCAL_T1	0	0	0	0	0	0	-0.34	-0.43	1	1	0	600	600	0
4/4/2024 11:17	52402	GRPA_T2	5	24	19	0.94	0.62	-0.32	0	0	0	0	0	0	0	0
4/4/2024 11:17	40101	HUNT_T2	3	11	8	0.83	0.25	-0.58	-0.16	-0.16	0	0	0	0	0	0
4/4/2024 11:17	55002	NEWP_T1	6	6	0	1.1	1.37	0.27	-0.25	-0.2	0	0	0	0	0	0
4/4/2024 11:18	65001	NEFF_T2	4	45	41	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
4/4/2024 11:18	54504	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/4/2024 11:18	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 11:18	59402	RFLD_T2	0	0	0	0	0	0	-0.53	-0.68	1	1	0	450	450	0
4/4/2024 11:18	65003	NEFF_T2	4	7	3	0.25	0.36	0.11	0	0	0	0	0	0	0	0
4/4/2024 11:18	65002	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 11:18	65005	NEFF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/4/2024 11:18	52402	GRPA_T2	5	24	19	0.94	0.62	-0.32	0	0	0	0	0	0	0	0
4/4/2024 11:18	52401	GRPA_T2	1	2	1	0.6	0.6	0	0	0	0	0	0	0	0	0
4/4/2024 11:18	54505	ENOL_T2	1	2	1	0.7	0.75	0.05	-1.22	-1.25	1	1	0	600	600	0
4/4/2024 11:18	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/4/2024 11:18	65004	NEFF_T2	0	4	4	0	0.43	0.43	-0.5	-0.5	0	0	0	0	0	0
4/4/2024 11:18	52403	GRPA_T2	15	13	-2	0.56	0.35	-0.21	0.16	0.2	0	0	0	0	0	0
4/4/2024 11:18	40101	HUNT_T2	3	11	8	0.83	0.25	-0.58	-0.16	-0.16	0	0	0	0	0	0
4/4/2024 11:18	52404	GRPA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/4/2024 11:19	46301	ROHR_T1	126	121	-5	0.28	0.25	-0.03	0.48	0.48	0	0	0	0	0	0
4/4/2024 11:19	67002	STHI_T2	2	27	25	0.2	0.27	0.07	0.59	0.61	0	0	0	0	0	0
4/4/2024 11:19	52403	GRPA_T2	15	13	-2	0.56	0.35	-0.21	0.08	0.1	0	0	0	0	0	0
4/4/2024 11:19	46302	ROHR_T1	4	4	0	1.95	2.75	0.8	0	0	0	0	0	0	0	0
4/4/2024 11:19	65901	SAKR_T2	1	1	0	8.7	8.8	0.1	-1.04	-0.98	1	1	0	900	900	0
4/4/2024 11:19	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 11:19	67001	STHI_T2	1	10	9	0.5	0.26	-0.24	0	0	0	0	0	0	0	0
4/4/2024 11:19	52401	GRPA_T2	1	2	1	0.6	0.6	0	0	0	0	0	0	0	0	0
4/4/2024 11:19	52402	GRPA_T2	5	24	19	0.94	0.62	-0.32	0	0	0	0	0	0	0	0
4/4/2024 11:19	52404	GRPA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/4/2024 11:20	64802	MONE_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/4/2024 11:20	45402	WILO_T2	0	1	1	0	0.7	0.7	-0.71	-0.71	0	0	0	0	0	0
4/4/2024 11:20	64801	MONE_T2	1	2	1	0.6	0.45	-0.15	0.29	0.31	0	0	0	0	0	0
4/4/2024 11:20	65702	RVIL_T2	4	13	9	0.18	0.35	0.17	-1	-1	1	1	0	600	600	0
4/4/2024 11:20	55002	NEWP_T1	6	6	0	1.1	1.37	0.27	-0.25	-0.2	0	0	0	0	0	0
4/4/2024 11:20	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 11:20	67002	STHI_T2	2	27	25	0.2	0.27	0.07	1.18	1.22	0	0	0	0	0	0
4/4/2024 11:20	67001	STHI_T2	1	10	9	0.5	0.26	-0.24	0	0	0	0	0	0	0	0
4/4/2024 11:21	67001	STHI_T2	1	10	9	0.5	0.26	-0.24	0	0	0	0	0	0	0	0
4/4/2024 11:21	67002	STHI_T2	2	27	25	0.2	0.27	0.07	0.59	0.61	0	0	0	0	0	0
4/4/2024 11:21	18001	ZION_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 11:21	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 11:21	65901	SAKR_T2	1	1	0	8.7	8.8	0.1	-1.04	-0.98	1	1	0	900	900	0
4/4/2024 11:21	26001	WDAM_T1	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
4/4/2024 11:22	66701	STRA_T1	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
4/4/2024 11:22	67001	STHI_T2	1	10	9	0.5	0.26	-0.24	0	0	0	0	0	0	0	0
4/4/2024 11:22	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 11:22	67002	STHI_T2	2	27	25	0.2	0.27	0.07	0.59	0.61	0	0	0	0	0	0
4/4/2024 11:22	66901	SHIL_T2	0	4	4	0	0.3	0.3	-1.35	-1.26	0	0	0	0	0	0
4/4/2024 11:22	66703	STRA_T1	3	2	-1	0.4	0.45	0.05	-0.09	-0.09	0	0	0	0	0	0
4/4/2024 11:23	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 11:23	44301	BEAV_T2	0	1	1	0	0	0	-0.12	0.2	2	2	0	1500	1500	0
4/4/2024 11:23	56801	BENV_T1	17	28	11	0.46	0.74	0.28	-0.81	-0.78	1	1	0	600	600	0
4/4/2024 11:23	67001	STHI_T2	1	10	9	0.5	0.26	-0.24	0	0	0	0	0	0	0	0
4/4/2024 11:23	67002	STHI_T2	2	27	25	0.2	0.27	0.07	0.61	0.6	0	0	0	0	0	0
4/4/2024 11:23	56803	BENV_T1	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
4/4/2024 11:24	56501	ROCK_T2	2	10	8	0.65	0.46	-0.19	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 11:24	27502	WEIS_T2	0	0	0	0	0	0	0.2	0.12	0	0	0	0	0	0
4/4/2024 11:24	45602	WOOL_T1	1	2	1	0.1	0.25	0.15	0.59	0.61	0	0	0	0	0	0
4/4/2024 11:25	56801	BENV_T1	17	28	11	0.46	0.74	0.28	-0.81	-0.78	1	1	0	600	600	0
4/4/2024 11:25	67002	STHI_T2	2	27	25	0.2	0.27	0.07	0.61	0.6	0	0	0	0	0	0
4/4/2024 11:25	67001	STHI_T2	1	10	9	0.5	0.26	-0.24	0	0	0	0	0	0	0	0
4/4/2024 11:25	56803	BENV_T1	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
4/4/2024 11:26	65702	RVIL_T2	4	13	9	0.18	0.35	0.17	-1	-0.99	1	1	0	600	600	0
4/4/2024 11:27	47001	HUGH_T2	0	0	0	0	0	0	-0.79	-0.84	0	0	0	0	0	0
4/4/2024 11:27	57401	SPAN_T1	5	34	29	0.54	0.34	-0.2	0	0	0	0	0	0	0	0
4/4/2024 11:27	57403	SPAN_T1	171	173	2	0.51	0.59	0.08	0.04	0.04	0	0	0	0	0	0
4/4/2024 11:27	47002	HUGH_T2	0	6	6	0	0.25	0.25	0	0	0	0	0	0	0	0
4/4/2024 11:27	45602	WOOL_T1	1	2	1	0.1	0.25	0.15	0.59	0.61	0	0	0	0	0	0
4/4/2024 11:29	56501	ROCK_T2	2	10	8	0.65	0.46	-0.19	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 11:29	45602	WOOL_T1	1	2	1	0.1	0.25	0.15	0.59	0.61	0	0	0	0	0	0
4/4/2024 11:31	65003	NEFF_T2	7	5	-2	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
4/4/2024 11:31	65005	NEFF_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/4/2024 11:31	65002	NEFF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/4/2024 11:31	54505	ENOL_T2	2	2	0	0.55	0.8	0.25	-1.25	-1.26	1	1	0	600	600	0
4/4/2024 11:31	54504	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/4/2024 11:31	43202	MVIL_T2	18	95	77	0.16	0.32	0.16	-0.55	-0.53	0	0	0	0	0	0
4/4/2024 11:31	43201	MVIL_T2	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
4/4/2024 11:31	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	-1.16	-1.04	1	1	0	600	600	0
4/4/2024 11:31	65001	NEFF_T2	45	6	-39	0.12	0.15	0.03	-0.57	-0.63	1	1	0	1200	1200	0
4/4/2024 11:31	45602	WOOL_T1	1	2	1	0.2	0.3	0.1	0.59	0.61	0	0	0	0	0	0
4/4/2024 11:31	65004	NEFF_T2	4	3	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/4/2024 11:31	54503	ENOL_T2	0	0	0	0	0	0	-1.93	-1.94	1	1	0	600	600	0
4/4/2024 11:31	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 11:32	54501	ENOL_T2	0	1	1	0	0.1	0.1	-1.13	-1.04	2	2	0	1200	1200	0
4/4/2024 11:32	54504	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/4/2024 11:32	54505	ENOL_T2	2	2	0	0.55	0.8	0.25	-2.5	-2.52	2	2	0	1200	1200	0
4/4/2024 11:32	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/4/2024 11:33	59402	RFLD_T2	0	0	0	0	0	0	-0.68	-0.68	1	1	0	450	450	0
4/4/2024 11:33	54505	ENOL_T2	2	2	0	0.55	0.8	0.25	-1.25	-1.26	1	1	0	600	600	0
4/4/2024 11:33	54504	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/4/2024 11:33	65004	NEFF_T2	4	3	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/4/2024 11:33	65005	NEFF_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/4/2024 11:33	65002	NEFF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/4/2024 11:33	65003	NEFF_T2	7	5	-2	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
4/4/2024 11:33	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 11:33	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	-2.32	-2.09	2	2	0	1200	1200	0
4/4/2024 11:33	65001	NEFF_T2	45	6	-39	0.12	0.15	0.03	-0.57	-0.63	1	1	0	1200	1200	0
4/4/2024 11:34	47001	HUGH_T2	0	0	0	0	0	0	-0.79	-0.84	0	0	0	0	0	0
4/4/2024 11:34	56501	ROCK_T2	5	23	18	0.44	0.31	-0.13	-0.02	-0.02	0	0	0	0	0	0
4/4/2024 11:34	41902	REED_T1	3	0	-3	0.27	0	-0.27	1.19	1.16	0	0	0	0	0	0
4/4/2024 11:34	65901	SAKR_T2	1	1	0	8	8.8	0.8	-0.98	-1.06	1	1	0	900	900	0
4/4/2024 11:34	47002	HUGH_T2	0	9	9	0	0.26	0.26	0	0	0	0	0	0	0	0
4/4/2024 11:34	41901	REED_T1	1	7	6	0.1	0.19	0.09	0	0	0	0	0	0	0	0
4/4/2024 11:35	66505	SMAN_T2	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
4/4/2024 11:35	56501	ROCK_T2	5	23	18	0.44	0.31	-0.13	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/4/2024 11:35	66501	SMAN_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
4/4/2024 11:35	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/4/2024 11:35	54504	ENOL_T2	1	1	0	0.3	0.5	0.2	-0.98	-1.03	1	1	0	600	600	0
4/4/2024 11:35	54505	ENOL_T2	2	2	0	0.55	0.8	0.25	-2.5	-2.52	2	2	0	1200	1200	0
4/4/2024 11:35	66502	SMAN_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/4/2024 11:35	54503	ENOL_T2	0	0	0	0	0	0	-3.86	-3.87	2	2	0	1200	1200	0
4/4/2024 11:35	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 11:35	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	-1	-0.95	0	0	0	0	0	0
4/4/2024 11:36	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/4/2024 11:36	54505	ENOL_T2	2	2	0	0.55	0.8	0.25	-1.25	-1.26	1	1	0	600	600	0
4/4/2024 11:36	56501	ROCK_T2	5	23	18	0.44	0.31	-0.13	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 11:36	41901	REED_T1	1	7	6	0.1	0.19	0.09	0	0	0	0	0	0	0	0
4/4/2024 11:36	41902	REED_T1	3	0	-3	0.27	0	-0.27	1.19	1.16	0	0	0	0	0	0
4/4/2024 11:36	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 11:36	54504	ENOL_T2	1	1	0	0.3	0.5	0.2	-0.98	-1.03	1	1	0	600	600	0
4/4/2024 11:36	18001	ZION_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
4/4/2024 11:37	59101	WALK_T2	1	2	1	0.2	0.3	0.1	1.29	1.39	2	2	0	1200	1200	0
4/4/2024 11:37	20403	ASHF_T2	0	32	32	0	0.18	0.18	0.16	0.14	0	0	0	0	0	0
4/4/2024 11:37	59102	WALK_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
4/4/2024 11:37	42701	AUGU_T1	1	1	0	0.9	1.1	0.2	0	0	2	2	0	1800	1800	0
4/4/2024 11:37	66901	SHIL_T2	4	0	-4	0.3	0	-0.3	-1.26	-1.35	0	0	0	0	0	0
4/4/2024 11:37	42802	SELI_T1	0	1	1	0	0.1	0.1	-0.8	-0.79	1	1	0	900	900	0
4/4/2024 11:37	66901	SAKR_T2	1	1	0	8	8.8	0.8	-0.98	-1.06	1	1	0	900	900	0
4/4/2024 11:38	59102	WALK_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
4/4/2024 11:38	42802	SELI_T1	0	1	1	0	0.1	0.1	-0.79	-0.82	1	1	0	900	900	0
4/4/2024 11:38	59101	WALK_T2	1	2	1	0.2	0.3	0.1	1.39	1.26	2	2	0	1200	1200	0
4/4/2024 11:38	41901	REED_T1	1	7	6	0.1	0.19	0.09	0	0	0	0	0	0	0	0
4/4/2024 11:38	60701	BREC_T1	0	0	0	0	0	0	0.01	0.04	1	1	0	600	600	0
4/4/2024 11:38	56501	ROCK_T2	5	23	18	0.44	0.31	-0.13	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 11:38	41902	REED_T1	3	0	-3	0.27	0	-0.27	1.16	1.17	0	0	0	0	0	0
4/4/2024 11:38	20403	ASHF_T2	0	32	32	0	0.18	0.18	0.27	0.86	0	0	0	0	0	0
4/4/2024 11:39	60701	BREC_T1	0	0	0	0	0	0	0.01	0.04	1	1	0	600	600	0
4/4/2024 11:39	46001	BERW_T1	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
4/4/2024 11:39	20403	ASHF_T2	0	32	32	0	0.18	0.18	0.14	0.43	0	0	0	0	0	0
4/4/2024 11:39	56501	ROCK_T2	5	23	18	0.44	0.31	-0.13	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 11:40	46001	BERW_T1	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
4/4/2024 11:40	60701	BREC_T1	0	0	0	0	0	0	0.01	0.04	1	1	0	600	600	0
4/4/2024 11:41	42701	AUGU_T1	1	1	0	0.9	1.1	0.2	0	0	2	2	0	1800	1800	0
4/4/2024 11:41	41802	GOCI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 11:41	41801	GOCI_T2	0	8	8	0	0.29	0.29	0	0	0	0	0	0	0	0
4/4/2024 11:42	41802	GOCI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 11:42	60701	BREC_T1	0	0	0	0	0	0	0.01	0.04	1	1	0	600	600	0
4/4/2024 11:42	41801	GOCI_T2	0	8	8	0	0.29	0.29	0	0	0	0	0	0	0	0
4/4/2024 11:42	11804	FRAN_T1	0	1	1	0	0.3	0.3	0.82	0.85	0	0	0	0	0	0
4/4/2024 11:43	40902	JESH_T1	0	0	0	0	0	0	-0.4	-0.48	0	0	0	0	0	0
4/4/2024 11:43	41801	GOCI_T2	0	8	8	0	0.29	0.29	0	0	0	0	0	0	0	0
4/4/2024 11:43	41802	GOCI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 11:43	46001	BERW_T1	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
4/4/2024 11:45	46001	BERW_T1	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
4/4/2024 11:45	17401	FOHI_T1	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
4/4/2024 11:47	40902	JESH_T1	0	0	0	0	0	0	-0.4	-0.48	0	0	0	0	0	0
4/4/2024 11:47	41901	REED_T1	3	9	6	0.17	0.18	0.01	0	0	0	0	0	0	0	0
4/4/2024 11:47	41902	REED_T1	0	0	0	0	0	0	1.16	1.17	0	0	0	0	0	0
4/4/2024 11:48	41901	REED_T1	3	9	6	0.17	0.18	0.01	0	0	0	0	0	0	0	0
4/4/2024 11:48	41902	REED_T1	0	0	0	0	0	0	1.16	1.17	0	0	0	0	0	0
4/4/2024 11:48	40902	JESH_T1	0	0	0	0	0	0	-0.4	-0.48	0	0	0	0	0	0
4/4/2024 11:49	41902	REED_T1	0	0	0	0	0	0	1.16	1.17	0	0	0	0	0	0
4/4/2024 11:49	13704	SCHN_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
4/4/2024 11:49	41901	REED_T1	3	9	6	0.17	0.18	0.01	0	0	0	0	0	0	0	0
4/4/2024 11:49	67204	TEHI_T2	0	1	1	0	0.4	0.4	-0.1	-0.1	0	0	0	0	0	0
4/4/2024 11:50	56501	ROCK_T2	10	22	12	0.46	0.3	-0.16	-0.02	-0.02	0	0	0	0	0	0
4/4/2024 11:50	67502	WEWI_T2	1	2	1	0.8	0.5	-0.3	-0.21	-0.2	0	0	0	0	0	0
4/4/2024 11:51	56501	ROCK_T2	10	22	12	0.46	0.3	-0.16	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 11:51	67502	WEWI_T2	1	2	1	0.8	0.5	-0.3	-0.21	-0.2	0	0	0	0	0	0
4/4/2024 11:52	18001	ZION_T1	1	2	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/4/2024 11:52	42701	AUGU_T1	1	1	0	0.8	1.1	0.3	0	0	2	2	0	1800	1800	0
4/4/2024 11:52	56501	ROCK_T2	10	22	12	0.46	0.3	-0.16	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 11:53	67204	TEHI_T2	0	1	1	0	0.4	0.4	-0.1	-0.14	0	0	0	0	0	0
4/4/2024 11:53	42701	AUGU_T1	1	1	0	0.8	1.1	0.3	0	0	2	2	0	1800	1800	0
4/4/2024 11:53	11804	FRAN_T1	1	1	0	0.3	0.2	-0.1	0.85	0.86	0	0	0	0	0	0
4/4/2024 11:54	56501	ROCK_T2	10	22	12	0.46	0.3	-0.16	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 11:54	67201	TEHI_T1	0	41	41	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 11:54	67203	TEHI_T1	0	0	0	0	0	0	2.03	2.31	2	2	0	1200	1200	0
4/4/2024 11:55	56501	ROCK_T2	10	22	12	0.46	0.3	-0.16	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 11:56	42701	AUGU_T1	1	1	0	0.8	1.1	0.3	0	0	4	4	0	3600	3600	0
4/4/2024 11:58	17401	FOHI_T1	0	0	0	0	0	0	-1	-0.99	0	0	0	0	0	0
4/4/2024 11:59	64305	LINC_T1	0	0	0	0	0	0	0.01	-0.2	0	0	0	0	0	0
4/4/2024 12:00	50506	MECH_T1	3	13	10	0.67	0.58	-0.09	-0.33	-0.35	2	2	0	1800	1800	0
4/4/2024 12:00	50501	MECH_T1	4	6	2	1.3	1.23	-0.07	0	0	0	0	0	0	0	0
4/4/2024 12:00	50505	MECH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/4/2024 12:00	50503	MECH_T1	2	14	12	0.3	0.3	0	0	0	0	0	0	0	0	0
4/4/2024 12:00	50504	MECH_T1	0	5	5	0	0.46	0.46	0	0	0	0	0	0	0	0
4/4/2024 12:00	50502	MECH_T1	1	3	2	2.3	1.13	-1.17	0	0	0	0	0	0	0	0
4/4/2024 12:01	50505	MECH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/4/2024 12:01	50503	MECH_T1	2	14	12	0.3	0.3	0	0	0	0	0	0	0	0	0
4/4/2024 12:01	50504	MECH_T1	0	5	5	0	0.46	0.46	0	0	0	0	0	0	0	0
4/4/2024 12:01	50501	MECH_T1	4	6	2	1.3	1.23	-0.07	0	0	0	0	0	0	0	0
4/4/2024 12:01	50506	MECH_T1	3	13	10	0.67	0.58	-0.09	-0.16	-0.17	1	1	0	900	900	0
4/4/2024 12:01	50502	MECH_T1	1	3	2	2.3	1.13	-1.17	0	0	0	0	0	0	0	0
4/4/2024 12:03	59301	MCAL_T1	8	7	-1	0.65	0.53	-0.12	-1.52	-1.54	1	1	0	600	600	0
4/4/2024 12:04	50504	MECH_T1	0	5	5	0	0.46	0.46	0	0	0	0	0	0	0	0
4/4/2024 12:04	59301	MCAL_T1	8	7	-1	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
4/4/2024 12:04	50505	MECH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/4/2024 12:04	50506	MECH_T1	3	13	10	0.67	0.58	-0.09	-0.16	-0.17	1	1	0	900	900	0
4/4/2024 12:04	50501	MECH_T1	4	6	2	1.3	1.23	-0.07	0	0	0	0	0	0	0	0
4/4/2024 12:04	50503	MECH_T1	2	14	12	0.3	0.3	0	0	0	0	0	0	0	0	0
4/4/2024 12:04	59302	MCAL_T1	0	0	0	0	0	0	-0.44	-0.23	1	1	0	600	600	0
4/4/2024 12:04	50502	MECH_T1	1	3	2	2.3	1.13	-1.17	0	0	0	0	0	0	0	0
4/4/2024 12:04	64305	LINC_T1	0	0	0	0	0	0	0.01	-0.2	0	0	0	0	0	0
4/4/2024 12:05	13302	ORVI_T2	2	2	0	0.3	0.35	0.05	1.31	1.41	0	0	0	0	0	0
4/4/2024 12:05	58003	WCAR_T1	1	1	0	0.9	1.1	0.2	0.1	0.08	1	1	0	600	600	0
4/4/2024 12:05	58001	WCAR_T1	3	3	0	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
4/4/2024 12:05	13704	SCHN_T2	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
4/4/2024 12:09	44301	BEAV_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/4/2024 12:09	44302	BEAV_T2	0	86	86	0	0.28	0.28	0.25	0.23	0	0	0	0	0	0
4/4/2024 12:09	46001	BERW_T1	0	0	0	0	0	0	0.75	0.79	0	0	0	0	0	0
4/4/2024 12:10	44301	BEAV_T2	0	2	2	0	0.15	0.15	-0.98	-0.95	2	2	0	1500	1500	0
4/4/2024 12:10	46001	BERW_T1	0	0	0	0	0	0	0.75	0.79	0	0	0	0	0	0
4/4/2024 12:10	44302	BEAV_T2	0	86	86	0	0.28	0.28	0	0	0	0	0	0	0	0
4/4/2024 12:10	58001	WCAR_T1	3	3	0	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
4/4/2024 12:10	58003	WCAR_T1	1	1	0	0.9	1.1	0.2	0.08	0.05	1	1	0	600	600	0
4/4/2024 12:12	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 12:12	46001	BERW_T1	0	0	0	0	0	0	0.75	0.79	0	0	0	0	0	0
4/4/2024 12:12	41602	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 12:13	51604	DUKE_T2	1	3	2	0.1	0.3	0.2	-0.34	-0.32	0	0	0	0	0	0
4/4/2024 12:13	41602	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 12:13	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 12:14	59301	MCAL_T1	8	7	-1	0.65	0.53	-0.12	-1.54	-1.53	1	1	0	600	600	0
4/4/2024 12:14	41602	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 12:14	45003	LIME_2	1	1	0	4.4	4.4	0	0	0	1	1	0	1200	1200	0
4/4/2024 12:14	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 12:14	45001	LIME_2	24	35	11	0.25	0.39	0.14	0	0	0	0	0	0	0	0
4/4/2024 12:14	59302	MCAL_T1	0	0	0	0	0	0	-0.23	-0.26	1	1	0	600	600	0
4/4/2024 12:15	64305	LINC_T1	0	0	0	0	0	0	-0.2	-0.26	0	0	0	0	0	0
4/4/2024 12:16	50501	MECH_T1	4	6	2	1.35	1.23	-0.12	0	0	0	0	0	0	0	0
4/4/2024 12:16	40602	PIGR_T1	0	0	0	0	0	0	-0.46	-0.52	1	1	0	600	600	0
4/4/2024 12:16	50502	MECH_T1	2	3	1	1.25	1.13	-0.12	0	0	0	0	0	0	0	0
4/4/2024 12:16	50503	MECH_T1	3	14	11	0.7	0.27	-0.43	0	0	0	0	0	0	0	0
4/4/2024 12:16	50504	MECH_T1	3	5	2	0.23	0.46	0.23	0	0	0	0	0	0	0	0
4/4/2024 12:16	40601	PIGR_T1	0	10	10	0	0.16	0.16	0	0	0	0	0	0	0	0
4/4/2024 12:16	50506	MECH_T1	12	12	0	0.63	0.54	-0.09	-0.17	-0.32	1	1	0	900	900	0
4/4/2024 12:16	50505	MECH_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/4/2024 12:17	45003	LIME_2	1	1	0	4.3	4.4	0.1	0	0	1	1	0	1200	1200	0
4/4/2024 12:17	45001	LIME_2	31	33	2	0.35	0.39	0.04	0	0	0	0	0	0	0	0
4/4/2024 12:17	46001	BERW_T1	0	0	0	0	0	0	0.75	0.79	0	0	0	0	0	0
4/4/2024 12:18	50501	MECH_T1	3	14	11	0.7	0.27	-0.43	0	0	0	0	0	0	0	0
4/4/2024 12:18	41902	REED_T1	0	0	0	0	0	0	1.18	1.21	0	0	0	0	0	0
4/4/2024 12:18	64303	LINC_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
4/4/2024 12:18	50502	MECH_T1	2	3	1	1.25	1.13	-0.12	0	0	0	0	0	0	0	0
4/4/2024 12:18	50506	MECH_T1	12	12	0	0.63	0.54	-0.09	-0.17	-0.32	1	1	0	900	900	0
4/4/2024 12:18	50504	MECH_T1	3	5	2	0.23	0.46	0.23	0	0	0	0	0	0	0	0
4/4/2024 12:18	50505	MECH_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/4/2024 12:18	50501	MECH_T1	4	6	2	1.35	1.23	-0.12	0	0	0	0	0	0	0	0
4/4/2024 12:18	40602	PIGR_T1	0	0	0	0	0	0	-0.92	-1.05	2	2	0	1200	1200	0
4/4/2024 12:18	40601	PIGR_T1	0	10	10	0	0.16	0.16	0	0	0	0	0	0	0	0
4/4/2024 12:18	41901	REED_T1	7	9	2	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/4/2024 12:19	11805	FRAN_T1	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
4/4/2024 12:19	11804	FRAN_T1	1	5	4	0.1	1.12	1.02	0.86	0.87	0	0	0	0	0	0
4/4/2024 12:20	13704	SCHN_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
4/4/2024 12:20	57103	SPHI_T2	2	4	2	0.2	0.28	0.08	0	0	0	0	0	0	0	0
4/4/2024 12:20	41901	REED_T1	7	9	2	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/4/2024 12:20	57106	SPHI_T2	4	6	2	1.5	1.27	-0.23	0	0	0	0	0	0	0	0
4/4/2024 12:20	64305	LINC_T1	0	0	0	0	0	0	-0.2	-0.26	0	0	0	0	0	0
4/4/2024 12:20	57101	SPHI_T2	1	9	8	0.3	0.48	0.18	0	0	0	0	0	0	0	0
4/4/2024 12:20	41902	REED_T1	0	0	0	0	0	0	1.18	1.21	0	0	0	0	0	0
4/4/2024 12:20	57104	SPHI_T2	6	11	5	0.55	0.55	0	-1.12	-1.05	0	0	0	0	0	0
4/4/2024 12:21	50505	MECH_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/4/2024 12:21	50502	MECH_T1	2	3	1	1.25	1.13	-0.12	0	0	0	0	0	0	0	0
4/4/2024 12:21	50503	MECH_T1	3	14	11	0.7	0.27	-0.43	0	0	0	0	0	0	0	0
4/4/2024 12:21	41902	REED_T1	0	0	0	0	0	0	1.18	1.21	0	0	0	0	0	0
4/4/2024 12:21	50504	MECH_T1	3	5	2	0.23	0.46	0.23	0	0	0	0	0	0	0	0
4/4/2024 12:21	41901	REED_T1	7	9	2	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/4/2024 12:21	50506	MECH_T1	12	12	0	0.63	0.54	-0.09	-0.17	-0.32	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/4/2024 12:21	50501	MECH_T1	4	6	2	1.35	1.23	-0.12	0	0	0	0	0	0	0	0
4/4/2024 12:23	13704	SCHN_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
4/4/2024 12:23	57106	SPHI_T2	4	6	2	1.5	1.27	-0.23	0	0	0	0	0	0	0	0
4/4/2024 12:23	57104	SPHI_T2	6	11	5	0.55	0.55	0	-1.05	-1.1	0	0	0	0	0	0
4/4/2024 12:23	57101	SPHI_T2	1	9	8	0.3	0.48	0.18	0	0	0	0	0	0	0	0
4/4/2024 12:23	57103	SPHI_T2	2	4	2	0.2	0.28	0.08	0	0	0	0	0	0	0	0
4/4/2024 12:24	13704	SCHN_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
4/4/2024 12:25	40101	HUNT_T2	2	4	2	0.15	0	-0.15	-0.23	-0.3	0	0	0	0	0	0
4/4/2024 12:28	41802	GOCI_T2	10	12	2	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/4/2024 12:28	41801	GOCI_T2	90	9	-81	0.23	0.16	-0.07	0	0	0	0	0	0	0	0
4/4/2024 12:29	41802	GOCI_T2	10	12	2	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/4/2024 12:29	41801	GOCI_T2	90	9	-81	0.23	0.16	-0.07	0	0	0	0	0	0	0	0
4/4/2024 12:30	41802	GOCI_T2	12	5	-7	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
4/4/2024 12:30	41801	GOCI_T2	9	2	-7	0.16	0.45	0.29	0	0	0	0	0	0	0	0
4/4/2024 12:34	13701	SCHN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/4/2024 12:34	13704	SCHN_T2	0	1	1	0	0.3	0.3	-0.29	-0.3	0	0	0	0	0	0
4/4/2024 12:35	66901	SHIL_T2	1	0	-1	0.1	0	-0.1	-1.36	-1.36	0	0	0	0	0	0
4/4/2024 12:36	13701	SCHN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/4/2024 12:36	13704	SCHN_T2	0	1	1	0	0.3	0.3	-0.29	-0.3	0	0	0	0	0	0
4/4/2024 12:38	41602	CLEV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/4/2024 12:38	41601	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 12:38	42701	AUGU_T1	1	8	7	1	1	0	0	0	2	2	0	1800	1800	0
4/4/2024 12:38	11804	FRAN_T1	2	5	3	0.5	1.12	0.62	0	0	0	0	0	0	0	0
4/4/2024 12:38	11805	FRAN_T1	0	3	3	0	0.5	0.5	-1.11	-1.13	1	1	0	1200	1200	0
4/4/2024 12:39	41601	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 12:39	41602	CLEV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/4/2024 12:39	42701	AUGU_T1	1	8	7	1	1	0	0	0	2	2	0	1800	1800	0
4/4/2024 12:40	13704	SCHN_T2	0	1	1	0	0.3	0.3	-0.3	-0.32	0	0	0	0	0	0
4/4/2024 12:40	41601	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 12:40	41602	CLEV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/4/2024 12:40	20403	ASHF_T2	2	8	6	0.4	0.56	0.16	0.05	0.04	0	0	0	0	0	0
4/4/2024 12:40	13701	SCHN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/4/2024 12:40	42701	AUGU_T1	1	8	7	1	1	0	0	0	4	4	0	3600	3600	0
4/4/2024 12:41	20403	ASHF_T2	2	8	6	0.4	0.56	0.16	0.14	0.12	0	0	0	0	0	0
4/4/2024 12:45	45001	LIME_2	11	22	11	0.14	0.26	0.12	0	0	0	0	0	0	0	0
4/4/2024 12:45	45003	LIME_2	1	1	0	4	3.9	-0.1	0	0	1	1	0	1200	1200	0
4/4/2024 12:48	66504	SMAN_T2	1	2	1	0.5	0.55	0.05	-0.94	-0.89	0	0	0	0	0	0
4/4/2024 12:48	66505	SMAN_T2	3	4	1	0.37	0.53	0.16	0	0	0	0	0	0	0	0
4/4/2024 12:48	66502	SMAN_T2	2	4	2	0.35	0.48	0.13	0	0	0	0	0	0	0	0
4/4/2024 12:48	66501	SMAN_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
4/4/2024 12:49	45003	LIME_2	1	1	0	4	3.9	-0.1	0	0	1	1	0	1200	1200	0
4/4/2024 12:49	45001	LIME_2	11	22	11	0.14	0.26	0.12	0	0	0	0	0	0	0	0
4/4/2024 12:50	13901	SEID_T1	0	0	0	0	0	0	0.51	-0.82	0	1	1	0	1200	1200
4/4/2024 12:50	13902	SEID_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
4/4/2024 12:51	42802	SELI_T1	0	1	1	0	0.5	0.5	-1.64	-1.64	2	2	0	1800	1800	0
4/4/2024 12:51	50506	MECH_T1	6	3	-3	0.38	0.5	0.12	-0.32	-0.36	1	1	0	900	900	0
4/4/2024 12:51	50502	MECH_T1	2	1	-1	1.35	2.5	1.15	0	0	0	0	0	0	0	0
4/4/2024 12:51	50503	MECH_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/4/2024 12:51	50501	MECH_T1	4	4	0	1.55	1.2	-0.35	0	0	0	0	0	0	0	0
4/4/2024 12:57	46001	BERW_T1	0	0	0	0	0	0	0.82	0.78	0	0	0	0	0	0
4/4/2024 12:58	46001	BERW_T1	0	0	0	0	0	0	0.82	0.78	0	0	0	0	0	0
4/4/2024 13:01	59301	MCAL_T1	2	2	0	0.5	0.5	0	-1.54	-1.49	1	1	0	600	600	0
4/4/2024 13:01	59302	MCAL_T1	0	0	0	0	0	0	-0.19	-0.21	1	1	0	600	600	0
4/4/2024 13:02	41902	REED_T1	0	0	0	0	0	0	1.15	1.1	0	0	0	0	0	0
4/4/2024 13:02	41901	REED_T1	5	9	4	0.16	0.24	0.08	0	0	0	0	0	0	0	0
4/4/2024 13:03	41901	REED_T1	5	9	4	0.16	0.24	0.08	0	0	0	0	0	0	0	0
4/4/2024 13:03	41902	REED_T1	0	0	0	0	0	0	1.15	1.1	0	0	0	0	0	0
4/4/2024 13:04	13105	NHAM_T2	0	0	0	0	0	0	-0.7	-0.73	1	1	0	1200	1200	0
4/4/2024 13:05	13704	SCHN_T2	1	1	0	0.3	0.2	-0.1	-0.32	-0.33	0	0	0	0	0	0
4/4/2024 13:05	13701	SCHN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/4/2024 13:05	41901	REED_T1	5	9	4	0.16	0.24	0.08	0	0	0	0	0	0	0	0
4/4/2024 13:05	41902	REED_T1	0	0	0	0	0	0	1.15	1.1	0	0	0	0	0	0
4/4/2024 13:06	41901	REED_T1	5	9	4	0.16	0.24	0.08	0	0	0	0	0	0	0	0
4/4/2024 13:06	13701	SCHN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/4/2024 13:06	13902	SEID_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
4/4/2024 13:06	13704	SCHN_T2	1	1	0	0.3	0.2	-0.1	-0.32	-0.33	0	0	0	0	0	0
4/4/2024 13:06	41902	REED_T1	0	0	0	0	0	0	2.29	2.21	0	0	0	0	0	0
4/4/2024 13:06	13901	SEID_T1	0	0	0	0	0	0	-0.82	-0.89	1	1	0	1200	1200	0
4/4/2024 13:07	41901	REED_T1	5	9	4	0.16	0.24	0.08	0	0	0	0	0	0	0	0
4/4/2024 13:07	41902	REED_T1	0	0	0	0	0	0	1.15	1.1	0	0	0	0	0	0
4/4/2024 13:08	13701	SCHN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/4/2024 13:08	13704	SCHN_T2	1	1	0	0.3	0.2	-0.1	-0.33	-0.32	0	0	0	0	0	0
4/4/2024 13:16	54503	ENOL_T2	0	0	0	0	0	0	-1.99	-2	1	1	0	600	600	0
4/4/2024 13:16	64305	LINC_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/4/2024 13:16	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/4/2024 13:16	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/4/2024 13:16	64303	LINC_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
4/4/2024 13:17	41901	REED_T1	9	9	0	0.24	0.33	0.09	0	0	0	0	0	0	0	0
4/4/2024 13:17	41902	REED_T1	0	0	0	0	0	0	1.1	1.25	0	0	0	0	0	0
4/4/2024 13:19	41901	REED_T1	9	9	0	0.24	0.33	0.09	0	0	0	0	0	0	0	0
4/4/2024 13:19	41902	REED_T1	0	0	0	0	0	0	1.1	1.25	0	0	0	0	0	0
4/4/2024 13:21	41902	REED_T1	0	0	0	0	0	0	1.1	1.25	0	0	0	0	0	0
4/4/2024 13:21	41901	REED_T1	9	9	0	0.24	0.33	0.09	0	0	0	0	0	0	0	0
4/4/2024 13:31	45001	LIME_2	29	25	-4	0.26	0.3	0.04	0	0	0	0	0	0	0	0
4/4/2024 13:31	45003	LIME_2	1	1	0	4.7	4.2	-0.5	0	0	1	1	0	1200	1200	0
4/4/2024 13:32	45003	LIME_2	1	1	0	4.7	4.2	-0.5	0	0	1	1	0	1200	1200	0
4/4/2024 13:32	45001	LIME_2	29	25	-4	0.26	0.3	0.04	0	0	0	0	0	0	0	0
4/4/2024 13:33	64305	LINC_T1	0	0	0	0	0	0	-0.14	-0.07	0	0	0	0	0	0
4/4/2024 13:38	64305	LINC_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
4/4/2024 13:41	52202	DEVO_T2	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
4/4/2024 13:42	41801	GOCI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 13:42	41802	GOCI_T2	2	16	14	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/4/2024 13:44	41802	GOCI_T2	2	16	14	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/4/2024 13:44	41801	GOCI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 13:48	41901	REED_T1	9	10	1	0.33	0.47	0.14	0	0	0	0	0	0	0	0
4/4/2024 13:48	41902	REED_T1	0	0	0	0	0	0	1.15	1.19	0	0	0	0	0	0
4/4/2024 13:49	41901	REED_T1	9	10	1	0.33	0.47	0.14	0	0	0	0	0	0	0	0
4/4/2024 13:49	41902	REED_T1	0	0	0	0	0	0	1.15	1.19	0	0	0	0	0	0
4/4/2024 13:49	64305	LINC_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
4/4/2024 13:50	13704	SCHN_T2	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
4/4/2024 13:51	41901	REED_T1	9	10	1	0.33	0.47	0.14	0	0	0	0	0	0	0	0
4/4/2024 13:51	41902	REED_T1	0	0	0	0	0	0	1.15	1.19	0	0	0	0	0	0
4/4/2024 13:52	42701	AUGU_T1	1	3	2	1	0.67	-0.33	0	0	2	2	0	1800	1800	0
4/4/2024 13:52	59101	WALK_T2	0	0	0	0	0	0	2.15	2.43	0	0	0	0	0	0
4/4/2024 13:53	59101	WALK_T2	0	0	0	0	0	0	2.43	2.28	0	0	0	0	0	0
4/4/2024 13:53	61103	BERK_T5	0	2	2	0	0.15	0.15	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 13:53	61101	BERK_T5	5	1	-4	0.48	0.1	-0.38	0	0	0	0	0	0	0	0
4/4/2024 13:53	13704	SCHN_T2	0	0	0	0	0	0	-0.71	-0.74	0	0	0	0	0	0
4/4/2024 13:54	59101	WALK_T2	0	0	0	0	0	0	2.43	2.28	0	0	0	0	0	0
4/4/2024 13:54	64305	LINC_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
4/4/2024 13:54	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 13:55	61101	BERK_T5	5	1	-4	0.48	0.1	-0.38	0	0	0	0	0	0	0	0
4/4/2024 13:55	42701	AUGU_T1	1	3	2	1	0.67	-0.33	0	0	2	2	0	1800	1800	0
4/4/2024 13:55	61103	BERK_T5	0	2	2	0	0.15	0.15	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 13:57	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 13:57	61101	BERK_T5	5	1	-4	0.48	0.1	-0.38	0	0	0	0	0	0	0	0
4/4/2024 13:57	61103	BERK_T5	0	2	2	0	0.15	0.15	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 13:57	16301	ALPA_T1	55	68	13	0.17	0.15	-0.02	-1.31	-1.2	0	0	0	0	0	0
4/4/2024 13:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 13:59	16301	ALPA_T1	55	68	13	0.17	0.15	-0.02	-0.44	-0.4	0	0	0	0	0	0
4/4/2024 13:59	64305	LINC_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
4/4/2024 14:01	16301	ALPA_T1	59	110	51	0.15	0.16	0.01	-0.44	-0.4	0	0	0	0	0	0
4/4/2024 14:04	66902	SHIL_T2	3	1	-2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/4/2024 14:04	66901	SHIL_T2	7	9	2	0.33	0.3	-0.03	-1.4	-1.4	0	0	0	0	0	0
4/4/2024 14:05	64101	REFR_T1	0	0	0	0	0	0	-0.69	-0.65	0	0	0	0	0	0
4/4/2024 14:05	64305	LINC_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
4/4/2024 14:05	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 14:06	64101	REFR_T1	0	0	0	0	0	0	-0.69	-0.65	0	0	0	0	0	0
4/4/2024 14:06	67001	STHI_T2	118	253	135	0.12	0.12	0	0	0	0	0	0	0	0	0
4/4/2024 14:06	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 14:06	67002	STHI_T2	46	57	11	0.28	0.19	-0.09	0.59	0.54	0	0	0	0	0	0
4/4/2024 14:07	67001	STHI_T2	118	253	135	0.12	0.12	0	0	0	0	0	0	0	0	0
4/4/2024 14:07	40201	BEGA_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/4/2024 14:07	66505	SMAN_T2	3	3	0	0.57	0.7	0.13	0	0	0	0	0	0	0	0
4/4/2024 14:07	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 14:07	66504	SMAN_T2	0	0	0	0	0	0	-1.13	-1.13	0	0	0	0	0	0
4/4/2024 14:07	67002	STHI_T2	46	57	11	0.28	0.19	-0.09	2.95	2.71	0	0	0	0	0	0
4/4/2024 14:07	42201	SHEN_T2	0	0	0	0	0	0	-0.2	-0.09	1	1	0	600	600	0
4/4/2024 14:08	59101	WALK_T2	0	0	0	0	0	0	2.28	2.12	0	0	0	0	0	0
4/4/2024 14:08	41601	CLEV_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/4/2024 14:08	67001	STHI_T2	118	253	135	0.12	0.12	0	0.05	0.06	0	0	0	0	0	0
4/4/2024 14:08	67002	STHI_T2	46	57	11	0.28	0.19	-0.09	1.62	1.71	0	0	0	0	0	0
4/4/2024 14:08	42701	AUGU_T1	3	2	-1	0.57	0.8	0.23	0	0	4	4	0	3600	3600	0
4/4/2024 14:09	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 14:09	59101	WALK_T2	0	0	0	0	0	0	2.28	2.12	0	0	0	0	0	0
4/4/2024 14:09	67001	STHI_T2	118	253	135	0.12	0.12	0	0	0	0	0	0	0	0	0
4/4/2024 14:09	42701	AUGU_T1	3	2	-1	0.57	0.8	0.23	0	0	2	2	0	1800	1800	0
4/4/2024 14:09	67002	STHI_T2	46	57	11	0.28	0.19	-0.09	1.08	1.14	0	0	0	0	0	0
4/4/2024 14:10	41601	CLEV_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/4/2024 14:10	67001	STHI_T2	118	253	135	0.12	0.12	0	0.1	0.12	0	0	0	0	0	0
4/4/2024 14:10	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 14:10	67002	STHI_T2	46	57	11	0.28	0.19	-0.09	0	0	0	0	0	0	0	0
4/4/2024 14:11	41502	FAIR_T2	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
4/4/2024 14:11	66703	STRA_T1	7	51	44	0.21	0.16	-0.05	-0.16	-0.09	0	0	0	0	0	0
4/4/2024 14:11	44301	BEAV_T2	1	9	8	0.6	0.33	-0.27	-0.15	-0.94	2	1	-1	1500	600	-900
4/4/2024 14:11	44302	BEAV_T2	0	107	107	0	0.36	0.36	0	0	0	0	0	0	0	0
4/4/2024 14:12	53903	HALI_T2	2	2	0	1.6	1.6	0	0	0	0	0	0	0	0	0
4/4/2024 14:12	53902	HALI_T2	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:12	53901	HALI_T2	1	1	0	0.5	0.6	0.1	-1.05	-1.04	0	0	0	0	0	0
4/4/2024 14:12	40201	BEGA_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/4/2024 14:13	41601	CLEV_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/4/2024 14:13	53903	HALI_T2	2	2	0	1.6	1.6	0	-0.14	-0.12	0	0	0	0	0	0
4/4/2024 14:13	41802	GOCI_T2	15	15	0	0.14	0.17	0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/4/2024 14:13	42701	AUGU_T1	3	2	-1	0.57	0.8	0.23	0	0	2	2	0	1800	1800	0
4/4/2024 14:13	53901	HALI_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/4/2024 14:13	53902	HALI_T2	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:13	41801	GOCI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/4/2024 14:14	53901	HALI_T2	1	1	0	0.5	0.6	0.1	-1.05	-1.04	0	0	0	0	0	0
4/4/2024 14:14	53902	HALI_T2	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:14	53903	HALI_T2	2	2	0	1.6	1.6	0	0	0	0	0	0	0	0	0
4/4/2024 14:14	40902	JESH_T1	1	0	-1	0.2	0	-0.2	-0.43	-0.58	0	0	0	0	0	0
4/4/2024 14:15	53902	HALI_T2	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:15	53901	HALI_T2	1	1	0	0.6	0.7	0.1	-1.05	-1.04	0	0	0	0	0	0
4/4/2024 14:15	41802	GOCI_T2	13	17	4	0.15	0.23	0.08	0	0	0	0	0	0	0	0
4/4/2024 14:15	55002	NEWP_T1	7	8	1	0.73	0.76	0.03	0	0	0	0	0	0	0	0
4/4/2024 14:15	40902	JESH_T1	0	0	0	0	0	0	-0.43	-0.58	0	0	0	0	0	0
4/4/2024 14:15	55001	NEWP_T1	0	0	0	0	0	0	-0.69	-0.08	1	0	-1	600	0	-600
4/4/2024 14:15	41801	GOCI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:15	53903	HALI_T2	2	2	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:16	53902	HALI_T2	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:16	53901	HALI_T2	1	1	0	0.6	0.7	0.1	-1.05	-1.04	0	0	0	0	0	0
4/4/2024 14:16	53903	HALI_T2	2	2	0	1.3	1.6	0.3	-0.28	-0.24	0	0	0	0	0	0
4/4/2024 14:17	53903	HALI_T2	2	2	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:17	53901	HALI_T2	1	1	0	0.6	0.7	0.1	-1.05	-1.04	0	0	0	0	0	0
4/4/2024 14:17	55002	NEWP_T1	7	8	1	0.73	0.76	0.03	-0.22	-0.23	0	0	0	0	0	0
4/4/2024 14:17	58402	MORO_T1	0	0	0	0	0	0	-0.21	-0.24	2	2	0	1500	1500	0
4/4/2024 14:17	53902	HALI_T2	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:17	58401	MORO_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:18	60201	ATGL_T2	82	70	-12	0.77	0.53	-0.24	0.72	0.68	0	0	0	0	0	0
4/4/2024 14:18	53902	HALI_T2	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:18	53901	HALI_T2	1	1	0	0.6	0.7	0.1	-1.05	-1.04	0	0	0	0	0	0
4/4/2024 14:18	58402	MORO_T1	0	0	0	0	0	0	-0.21	-0.24	2	2	0	1500	1500	0
4/4/2024 14:18	58401	MORO_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:18	55002	NEWP_T1	7	8	1	0.73	0.76	0.03	-0.22	-0.23	0	0	0	0	0	0
4/4/2024 14:18	12701	MACU_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
4/4/2024 14:18	53903	HALI_T2	2	2	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:19	58401	MORO_T1	0	2	2	0	0.3	0.3	-1.04	-1.01	1	1	0	600	600	0
4/4/2024 14:19	41901	REED_T1	9	3	-6	0.46	0.13	-0.33	0	0	0	0	0	0	0	0
4/4/2024 14:19	64202	KINZ_T1	2	3	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/4/2024 14:19	43101	SMIL_T2	3	2	-1	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
4/4/2024 14:19	41902	REED_T1	0	1	1	0	0.2	0.2	1.18	1.16	0	0	0	0	0	0
4/4/2024 14:19	43105	SMIL_T2	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
4/4/2024 14:19	65003	NEFF_T2	1	5	4	0.3	0.12	-0.18	0	0	0	0	0	0	0	0
4/4/2024 14:19	43102	SMIL_T2	4	7	3	0.58	0.56	-0.02	0	0	0	0	0	0	0	0
4/4/2024 14:19	64203	KINZ_T1	0	0	0	0	0	0	0.93	0.9	1	1	0	600	600	0
4/4/2024 14:19	43103	SMIL_T2	15	17	2	0.55	0.54	-0.01	0	0	0	0	0	0	0	0
4/4/2024 14:19	64201	KINZ_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
4/4/2024 14:19	55002	NEWP_T1	7	8	1	0.73	0.76	0.03	-0.22	-0.23	0	0	0	0	0	0
4/4/2024 14:19	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
4/4/2024 14:19	65001	NEFF_T2	0	3	3	0	0.1	0.1	-0.81	-0.7	1	1	0	1200	1200	0
4/4/2024 14:19	43104	SMIL_T2	1	2	1	0.4	0.1	-0.3	-0.8	-0.8	1	1	0	300	300	0
4/4/2024 14:20	41901	REED_T1	9	3	-6	0.46	0.13	-0.33	0	0	0	0	0	0	0	0
4/4/2024 14:20	55001	NEWP_T1	0	0	0	0	0	0	-0.69	-0.08	1	0	-1	600	0	-600
4/4/2024 14:20	42201	SHEN_T2	0	0	0	0	0	0	-0.09	-0.1	1	1	0	600	600	0
4/4/2024 14:20	40902	JESH_T1	0	0	0	0	0	0	-0.43	-0.58	0	0	0	0	0	0
4/4/2024 14:20	55002	NEWP_T1	7	8	1	0.73	0.76	0.03	0	0	0	0	0	0	0	0
4/4/2024 14:20	41902	REED_T1	0	1	1	0	0.2	0.2	1.18	1.16	0	0	0	0	0	0
4/4/2024 14:20	42802	SELI_T1	0	1	1	0	0.9	0.9	-1.57	-1.64	2	2	0	1800	1800	0
4/4/2024 14:21	66703	STRA_T1	51	3	-48	0.16	0.27	0.11	-0.16	-0.09	0	0	0	0	0	0
4/4/2024 14:21	60605	NCNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 14:21	56501	ROCK_T2	6	12	6	0.37	0.44	0.07	-0.02	-0.02	0	0	0	0	0	0
4/4/2024 14:21	55002	NEWP_T1	7	8	1	0.73	0.76	0.03	-0.44	-0.46	0	0	0	0	0	0
4/4/2024 14:22	41902	REED_T1	0	1	1	0	0.2	0.2	1.18	1.16	0	0	0	0	0	0
4/4/2024 14:22	67002	STHI_T2	38	75	37	0.22	0.16	-0.06	0.54	0.57	0	0	0	0	0	0
4/4/2024 14:22	56501	ROCK_T2	6	12	6	0.37	0.44	0.07	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 14:22	67502	WEWI_T2	0	0	0	0	0	0	-0.08	-0.26	0	0	0	0	0	0
4/4/2024 14:22	41901	REED_T1	9	3	-6	0.46	0.13	-0.33	0	0	0	0	0	0	0	0
4/4/2024 14:22	40201	BEGA_T2	0	60	60	0	0.35	0.35	0	0	0	0	0	0	0	0
4/4/2024 14:22	67001	STHI_T2	89	302	213	0.12	0.16	0.04	0	0	0	0	0	0	0	0
4/4/2024 14:23	56501	ROCK_T2	6	12	6	0.37	0.44	0.07	-0.02	-0.02	0	0	0	0	0	0
4/4/2024 14:23	67002	STHI_T2	38	75	37	0.22	0.16	-0.06	0.57	0.54	0	0	0	0	0	0
4/4/2024 14:23	40201	BEGA_T2	0	60	60	0	0.35	0.35	0	0	0	0	0	0	0	0
4/4/2024 14:23	67001	STHI_T2	89	302	213	0.12	0.16	0.04	0	0	0	0	0	0	0	0
4/4/2024 14:23	67502	WEWI_T2	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
4/4/2024 14:23	41601	CLEV_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
4/4/2024 14:23	41602	CLEV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/4/2024 14:23	66505	SMAN_T2	3	3	0	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
4/4/2024 14:23	66504	SMAN_T2	0	0	0	0	0	0	-1.03	-1.01	0	0	0	0	0	0
4/4/2024 14:24	41602	CLEV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/4/2024 14:24	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
4/4/2024 14:24	59101	WALK_T2	0	1	1	0	0.5	0.5	2.12	1.9	0	0	0	0	0	0
4/4/2024 14:24	67002	STHI_T2	38	75	37	0.22	0.16	-0.06	0.57	0.54	0	0	0	0	0	0
4/4/2024 14:24	67001	STHI_T2	89	302	213	0.12	0.16	0.04	0	0	0	0	0	0	0	0
4/4/2024 14:24	56501	ROCK_T2	6	12	6	0.37	0.44	0.07	0	0	0	0	0	0	0	0
4/4/2024 14:24	18001	ZION_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 14:24	41601	CLEV_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
4/4/2024 14:25	41602	CLEV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/4/2024 14:25	59101	WALK_T2	0	1	1	0	0.5	0.5	2.12	1.9	0	0	0	0	0	0
4/4/2024 14:25	26002	WDAM_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
4/4/2024 14:25	67001	STHI_T2	89	302	213	0.12	0.16	0.04	0	0	0	0	0	0	0	0
4/4/2024 14:25	67002	STHI_T2	38	75	37	0.22	0.16	-0.06	0.57	0.54	0	0	0	0	0	0
4/4/2024 14:25	26001	WDAM_T1	0	0	0	0	0	0	-0.77	-0.74	0	0	0	0	0	0
4/4/2024 14:25	41601	CLEV_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
4/4/2024 14:26	65003	NEFF_T2	1	5	4	0.3	0.12	-0.18	0	0	0	0	0	0	0	0
4/4/2024 14:26	65001	NEFF_T2	0	3	3	0	0.1	0.1	-0.7	-0.57	1	1	0	1200	1200	0
4/4/2024 14:26	60101	COCA_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
4/4/2024 14:26	64202	KINZ_T1	2	3	1	0.2	0.3	0.1	0.75	0.74	0	0	0	0	0	0
4/4/2024 14:26	41802	GOCI_T2	13	17	4	0.15	0.23	0.08	0	0	0	0	0	0	0	0
4/4/2024 14:26	64201	KINZ_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
4/4/2024 14:26	41801	GOCI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:26	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
4/4/2024 14:27	56501	ROCK_T2	6	12	6	0.37	0.44	0.07	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 14:27	16301	ALPA_T1	40	107	67	0.16	0.16	0	-0.42	-0.44	0	0	0	0	0	0
4/4/2024 14:27	44301	BEAV_T2	6	9	3	0.33	0.34	0.01	-1.88	-0.6	2	2	0	1200	1200	0
4/4/2024 14:27	44302	BEAV_T2	3	110	107	0.2	0.36	0.16	0	0	0	0	0	0	0	0
4/4/2024 14:28	53902	HALI_T2	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:28	56601	HAMP_T1	0	0	0	0	0	0	-2.06	-2	0	0	0	0	0	0
4/4/2024 14:28	53903	HALI_T2	2	2	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:28	46004	BERW_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
4/4/2024 14:28	16301	ALPA_T1	40	107	67	0.16	0.16	0	-0.42	-0.44	0	0	0	0	0	0
4/4/2024 14:28	60101	COCA_T1	0	0	0	0	0	0	0.85	0.84	0	0	0	0	0	0
4/4/2024 14:28	53901	HALI_T2	1	1	0	0.6	0.7	0.1	-1.04	-1.04	0	0	0	0	0	0
4/4/2024 14:29	12701	MACU_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
4/4/2024 14:29	41802	GOCI_T2	13	17	4	0.15	0.23	0.08	0	0	0	0	0	0	0	0
4/4/2024 14:29	16301	ALPA_T1	40	107	67	0.16	0.16	0	-0.42	-0.44	0	0	0	0	0	0
4/4/2024 14:29	53902	HALI_T2	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:29	53901	HALI_T2	1	1	0	0.6	0.7	0.1	-1.04	-1.04	0	0	0	0	0	0
4/4/2024 14:29	60101	COCA_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
4/4/2024 14:29	53903	HALI_T2	2	2	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:29	41801	GOCI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:30	16301	ALPA_T1	107	14	-93	0.16	0.18	0.02	-0.42	-0.44	0	0	0	0	0	0
4/4/2024 14:30	56601	HAMP_T1	0	0	0	0	0	0	-2.06	-2	0	0	0	0	0	0
4/4/2024 14:30	53903	HALI_T2	2	3	1	1.6	1.13	-0.47	0	0	0	0	0	0	0	0
4/4/2024 14:30	53902	HALI_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
4/4/2024 14:30	53901	HALI_T2	1	1	0	0.4	0.7	0.3	-1.04	-1.04	0	0	0	0	0	0
4/4/2024 14:31	53902	HALI_T2	1	1	0	5.9	5.8	-0.1	-0.25	-0.27	0	0	0	0	0	0
4/4/2024 14:31	55002	NEWP_T1	8	7	-1	0.74	0.77	0.03	-0.23	-0.25	0	0	0	0	0	0
4/4/2024 14:31	53903	HALI_T2	2	3	1	1.6	1.13	-0.47	-0.12	-0.14	0	0	0	0	0	0
4/4/2024 14:31	51004	NHAR_T1	9	14	5	1.12	1.25	0.13	-0.46	-0.43	0	0	0	0	0	0
4/4/2024 14:31	51003	NHAR_T1	2	4	2	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/4/2024 14:31	12701	MACU_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
4/4/2024 14:31	53901	HALI_T2	1	1	0	0.4	0.7	0.3	-1.04	-1.04	0	0	0	0	0	0
4/4/2024 14:31	51002	NHAR_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
4/4/2024 14:31	64305	LINC_T1	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
4/4/2024 14:32	52006	LING_T2	3	3	0	0.77	0.7	-0.07	0	0	0	0	0	0	0	0
4/4/2024 14:32	53903	HALI_T2	2	3	1	1.6	1.13	-0.47	-0.12	-0.14	0	0	0	0	0	0
4/4/2024 14:32	52004	LING_T2	0	1	1	0	0.2	0.2	0.21	0.23	0	0	0	0	0	0
4/4/2024 14:32	53901	HALI_T2	1	1	0	0.4	0.7	0.3	-1.04	-1.04	0	0	0	0	0	0
4/4/2024 14:32	52002	LING_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/4/2024 14:32	53902	HALI_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
4/4/2024 14:33	66503	SMAN_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 14:33	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/4/2024 14:33	64202	KINZ_T1	2	3	1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
4/4/2024 14:33	66505	SMAN_T2	3	2	-1	0.47	0.2	-0.27	0	0	0	0	0	0	0	0
4/4/2024 14:33	53902	HALI_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
4/4/2024 14:33	58402	MORO_T1	0	0	0	0	0	0	-0.24	-0.26	2	2	0	1500	1500	0
4/4/2024 14:33	53901	HALI_T2	1	1	0	0.4	0.7	0.3	-1.04	-1.04	0	0	0	0	0	0
4/4/2024 14:33	58401	MORO_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/4/2024 14:33	64201	KINZ_T1	0	5	5	0	0.14	0.14	0.01	-0.16	3	3	0	1500	1500	0
4/4/2024 14:33	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
4/4/2024 14:33	53903	HALI_T2	2	3	1	1.6	1.13	-0.47	-0.12	-0.14	0	0	0	0	0	0
4/4/2024 14:33	66504	SMAN_T2	0	0	0	0	0	0	-1.03	-1.01	0	0	0	0	0	0
4/4/2024 14:33	12701	MACU_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
4/4/2024 14:33	55002	NEWP_T1	8	7	-1	0.74	0.77	0.03	-0.23	-0.25	0	0	0	0	0	0
4/4/2024 14:34	55002	NEWP_T1	8	7	-1	0.74	0.77	0.03	-0.23	-0.25	0	0	0	0	0	0
4/4/2024 14:34	58402	MORO_T1	0	0	0	0	0	0	-0.24	-0.26	2	2	0	1500	1500	0
4/4/2024 14:34	58401	MORO_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/4/2024 14:34	60201	ATGL_T2	76	30	-46	0.43	0.57	0.14	0.68	0.7	0	0	0	0	0	0
4/4/2024 14:35	42901	MIDD_T2	14	3	-11	0.19	0.33	0.14	0	0	0	0	0	0	0	0
4/4/2024 14:35	54501	ENOL_T2	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
4/4/2024 14:35	64201	KINZ_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
4/4/2024 14:35	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/4/2024 14:35	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/4/2024 14:35	65003	NEFF_T2	3	4	1	0.13	0.13	0	0	0	0	0	0	0	0	0
4/4/2024 14:35	42903	MIDD_T2	3	2	-1	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
4/4/2024 14:35	64203	KINZ_T1	0	0	0	0	0	0	0.9	0.99	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/4/2024 14:35	64202	KINZ_T1	2	3	1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
4/4/2024 14:35	42802	SELI_T1	1	1	0	0.9	1.2	0.3	-0.82	-0.82	1	1	0	900	900	0
4/4/2024 14:35	13704	SCHN_T2	0	1	1	0	0.3	0.3	-0.7	-0.68	0	0	0	0	0	0
4/4/2024 14:35	65001	NEFF_T2	2	3	1	0.1	0.1	0	-0.7	-0.57	1	1	0	1200	1200	0
4/4/2024 14:35	42902	MIDD_T2	15	3	-12	0.24	0.6	0.36	-0.33	-0.35	0	0	0	0	0	0
4/4/2024 14:35	54505	ENOL_T2	1	2	1	0.7	0.5	-0.2	-1.3	-1.29	1	1	0	600	600	0
4/4/2024 14:36	64305	LINC_T1	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
4/4/2024 14:36	59101	WALK_T2	0	1	1	0	0.5	0.5	2.12	1.9	0	0	0	0	0	0
4/4/2024 14:36	42802	SELI_T1	1	1	0	0.9	1.2	0.3	-0.82	-0.82	1	1	0	900	900	0
4/4/2024 14:36	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/4/2024 14:36	54501	ENOL_T2	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
4/4/2024 14:36	54505	ENOL_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/4/2024 14:37	67001	STHI_T2	246	301	55	0.12	0.16	0.04	0	0	0	0	0	0	0	0
4/4/2024 14:37	42802	SELI_T1	1	1	0	0.9	1.2	0.3	-0.82	-0.82	1	1	0	900	900	0
4/4/2024 14:37	65003	NEFF_T2	3	4	1	0.13	0.13	0	0	0	0	0	0	0	0	0
4/4/2024 14:37	64202	KINZ_T1	2	3	1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
4/4/2024 14:37	67002	STHI_T2	39	75	36	0.12	0.17	0.05	0.57	0.54	0	0	0	0	0	0
4/4/2024 14:37	60701	BREC_T1	0	0	0	0	0	0	-0.06	-0.07	1	1	0	600	600	0
4/4/2024 14:37	66703	STRA_T1	2	4	2	0.35	0.13	-0.22	-0.09	-0.1	0	0	0	0	0	0
4/4/2024 14:37	13704	SCHN_T2	0	1	1	0	0.3	0.3	-0.35	-0.34	0	0	0	0	0	0
4/4/2024 14:37	65001	NEFF_T2	2	3	1	0.1	0.1	0	-0.7	-0.57	1	1	0	1200	1200	0
4/4/2024 14:37	64201	KINZ_T1	0	5	5	0	0.14	0.14	0.01	-0.16	3	3	0	1500	1500	0
4/4/2024 14:37	16301	ALPA_T1	107	14	-93	0.16	0.18	0.02	-0.42	-0.44	0	0	0	0	0	0
4/4/2024 14:37	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/4/2024 14:38	67001	STHI_T2	246	301	55	0.12	0.16	0.04	0	0	0	0	0	0	0	0
4/4/2024 14:38	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/4/2024 14:38	54501	ENOL_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
4/4/2024 14:38	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/4/2024 14:38	67002	STHI_T2	39	75	36	0.12	0.17	0.05	1.08	1.1	0	0	0	0	0	0
4/4/2024 14:38	64201	KINZ_T1	0	5	5	0	0.14	0.14	-0.16	-0.05	3	3	0	1500	1500	0
4/4/2024 14:38	54505	ENOL_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/4/2024 14:38	64202	KINZ_T1	2	3	1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
4/4/2024 14:38	67002	STHI_T2	39	75	36	0.12	0.17	0.05	0.54	0.55	0	0	0	0	0	0
4/4/2024 14:39	42701	AUGU_T1	1	1	0	1.1	1.5	0.4	0	0	6	6	0	5400	5400	0
4/4/2024 14:39	67001	STHI_T2	246	301	55	0.12	0.16	0.04	0	0	0	0	0	0	0	0
4/4/2024 14:39	56801	BENV_T1	32	36	4	0.82	1.11	0.29	-0.78	-0.82	1	1	0	600	600	0
4/4/2024 14:39	42802	SELI_T1	1	1	0	0.9	1.2	0.3	-0.82	-0.82	1	1	0	900	900	0
4/4/2024 14:39	56803	BENV_T1	1	10	9	0.2	0.33	0.13	0	0	0	0	0	0	0	0
4/4/2024 14:39	41601	CLEV_T1	1	3	2	0.8	0.47	-0.33	0	0	0	0	0	0	0	0
4/4/2024 14:39	41602	CLEV_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
4/4/2024 14:39	27503	WEIS_T2	3	10	7	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
4/4/2024 14:39	60701	BREC_T1	0	0	0	0	0	0	-0.07	-0.02	1	1	0	600	600	0
4/4/2024 14:39	27502	WEIS_T2	0	0	0	0	0	0	-0.59	-0.51	0	0	0	0	0	0
4/4/2024 14:39	45602	WOOL_T1	3	3	0	0.53	0.7	0.17	0.56	0.53	0	0	0	0	0	0
4/4/2024 14:40	67002	STHI_T2	39	75	36	0.12	0.17	0.05	0.54	0.55	0	0	0	0	0	0
4/4/2024 14:40	41601	CLEV_T1	1	3	2	0.8	0.47	-0.33	0	0	0	0	0	0	0	0
4/4/2024 14:40	56801	BENV_T1	32	36	4	0.82	1.11	0.29	-1.56	-1.63	2	2	0	1200	1200	0
4/4/2024 14:40	56803	BENV_T1	1	10	9	0.2	0.33	0.13	0	0	0	0	0	0	0	0
4/4/2024 14:40	41602	CLEV_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
4/4/2024 14:40	67001	STHI_T2	246	301	55	0.12	0.16	0.04	0	0	0	0	0	0	0	0
4/4/2024 14:41	67001	STHI_T2	246	301	55	0.12	0.16	0.04	0	0	0	0	0	0	0	0
4/4/2024 14:41	67002	STHI_T2	39	75	36	0.12	0.17	0.05	0.54	0.55	0	0	0	0	0	0
4/4/2024 14:41	41801	GOCI_T2	1	7	6	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
4/4/2024 14:41	41602	CLEV_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
4/4/2024 14:41	59101	WALK_T2	0	1	1	0	0.5	0.5	1.9	1.75	0	0	0	0	0	0
4/4/2024 14:41	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-0.99	0	0	0	0	0	0
4/4/2024 14:41	42701	AUGU_T1	1	1	0	1.1	1.5	0.4	0	0	2	2	0	1800	1800	0
4/4/2024 14:41	41802	GOCI_T2	14	18	4	0.15	0.29	0.14	0	0	0	0	0	0	0	0
4/4/2024 14:41	41601	CLEV_T1	1	3	2	0.8	0.47	-0.33	0	0	0	0	0	0	0	0
4/4/2024 14:41	60701	BREC_T1	0	0	0	0	0	0	-0.14	-0.05	2	2	0	1200	1200	0
4/4/2024 14:41	45602	WOOL_T1	3	3	0	0.53	0.7	0.17	0.56	0.53	0	0	0	0	0	0
4/4/2024 14:42	56801	BENV_T1	32	36	4	0.82	1.11	0.29	-0.78	-0.82	1	1	0	600	600	0
4/4/2024 14:42	56803	BENV_T1	1	10	9	0.2	0.33	0.13	0	0	0	0	0	0	0	0
4/4/2024 14:42	46004	BERW_T2	0	0	0	0	0	0	-0.41	-0.49	0	0	0	0	0	0
4/4/2024 14:43	56803	BENV_T1	1	10	9	0.2	0.33	0.13	0	0	0	0	0	0	0	0
4/4/2024 14:43	53902	HALI_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
4/4/2024 14:43	56801	BENV_T1	32	36	4	0.82	1.11	0.29	-0.78	-0.82	1	1	0	600	600	0
4/4/2024 14:43	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-0.99	0	0	0	0	0	0
4/4/2024 14:43	53901	HALI_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/4/2024 14:43	53903	HALI_T2	2	3	1	1.6	1.13	-0.47	-0.14	-0.11	0	0	0	0	0	0
4/4/2024 14:44	46004	BERW_T2	0	0	0	0	0	0	-0.41	-0.49	0	0	0	0	0	0
4/4/2024 14:44	45602	WOOL_T1	3	3	0	0.53	0.7	0.17	0.56	0.53	0	0	0	0	0	0
4/4/2024 14:44	41801	GOCI_T2	1	7	6	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
4/4/2024 14:44	41802	GOCI_T2	14	18	4	0.15	0.29	0.14	0	0	0	0	0	0	0	0
4/4/2024 14:45	40504	CRES_T1	0	0	0	0	0	0	-1.42	-1.55	0	0	0	0	0	0
4/4/2024 14:46	42903	MIDD_T2	2	3	1	1.3	1	-0.3	0	0	0	0	0	0	0	0
4/4/2024 14:46	43201	MVIL_T2	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
4/4/2024 14:46	42901	MIDD_T2	3	2	-1	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
4/4/2024 14:46	43202	MVIL_T2	94	126	32	0.43	0.49	0.06	0	0	0	0	0	0	0	0
4/4/2024 14:46	45602	WOOL_T1	3	4	1	0.57	0.95	0.38	0.56	0.53	0	0	0	0	0	0
4/4/2024 14:46	42902	MIDD_T2	3	3	0	0.6	0.53	-0.07	-0.35	-0.32	0	0	0	0	0	0
4/4/2024 14:46	40505	CRES_T1	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
4/4/2024 14:47	40505	CRES_T1	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
4/4/2024 14:47	53901	HALI_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/4/2024 14:47	53903	HALI_T2	2	5	3	1.6	0.84	-0.76	-0.14	-0.11	0	0	0	0	0	0
4/4/2024 14:47	55002	NEWP_T1	5	10	5	0.66	0.58	-0.08	-0.5	-0.44	0	0	0	0	0	0
4/4/2024 14:47	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.53	-0.54	0	0	0	0	0	0
4/4/2024 14:47	48301	ORWI_T1	5	4	-1	2.48	5.2	2.72	0	0	0	0	0	0	0	0
4/4/2024 14:47	53902	HALI_T2	1	3	2	5.7	2.13	-3.57	0	0	0	0	0	0	0	0
4/4/2024 14:48	55002	NEWP_T1	5	10	5	0.66	0.58	-0.08	-0.25	-0.22	0	0	0	0	0	0
4/4/2024 14:48	52004	LING_T2	1	1	0	0.1	0.2	0.1	0.23	0.14	0	0	0	0	0	0
4/4/2024 14:48	43202	MVIL_T2	94	126	32	0.43	0.49	0.06	-0.57	-0.6	0	0	0	0	0	0
4/4/2024 14:48	52006	LING_T2	3	3	0	0.7	0.83	0.13	0	0	0	0	0	0	0	0
4/4/2024 14:48	53903	HALI_T2	2	5	3	1.6	0.84	-0.76	-0.14	-0.11	0	0	0	0	0	0
4/4/2024 14:48	53901	HALI_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/4/2024 14:48	53902	HALI_T2	1	3	2	5.7	2.13	-3.57	0	0	0	0	0	0	0	0
4/4/2024 14:48	52002	LING_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/4/2024 14:49	48301	ORWI_T1	5	4	-1	2.48	5.2	2.72	0	0	0	0	0	0	0	0
4/4/2024 14:49	58402	MORO_T1	0	0	0	0	0	0	-0.26	-0.31	2	2	0	1500	1500	0
4/4/2024 14:49	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.26	-0.27	0	0	0	0	0	0
4/4/2024 14:49	40505	CRES_T1	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
4/4/2024 14:49	58401	MORO_T1	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/4/2024 14:49	40504	CRES_T1	0	0	0	0	0	0	-2.84	-3.11	0	0	0	0	0	0
4/4/2024 14:50	54502	ENOL_T2	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
4/4/2024 14:50	58401	MORO_T1	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/4/2024 14:50	55002	NEWP_T1	5	10	5	0.66	0.58	-0.08	-0.5	-0.44	0	0	0	0	0	0
4/4/2024 14:50	58402	MORO_T1	0	0	0	0	0	0	-0.26	-0.31	2	2	0	1500	1500	0
4/4/2024 14:50	54505	ENOL_T2	1	2	1	0.7	0.65	-0.05	-1.29	-1.28	1	1	0	600	600	0
4/4/2024 14:50	48301	ORWI_T1	5	4	-1	2.48	5.2	2.72	0	0	0	0	0	0	0	0
4/4/2024 14:50	54504	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/4/2024 14:51	65003	NEFF_T2	4	4	0	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/4/2024 14:51	58401	MORO_T1	2	1	-1	0.3	0.1	-0.2	-1.04	-1.07	1	1	0	600	600	0
4/4/2024 14:51	65001	NEFF_T2	1	9	8	0.1	0.13	0.03	-0.57	-0.6	1	1	0	1200	1200	0
4/4/2024 14:52	20403	ASHF_T2	3	1	-2	0.4	0	-0.4	0.08	0.25	0	0	0	0	0	0
4/4/2024 14:52	54502	ENOL_T2	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
4/4/2024 14:52	54504	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/4/2024 14:52	54505	ENOL_T2	1	2	1	0.7	0.65	-0.05	-1.29	-1.28	1	1	0	600	600	0
4/4/2024 14:53	65003	NEFF_T2	4	4	0	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/4/2024 14:53	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 14:53	65001	NEFF_T2	1	9	8	0.1	0.13	0.03	-0.6	-0.63	1	1	0	1200	1200	0
4/4/2024 14:54	60101	COCA_T1	0	0	0	0	0	0	0.27	0.35	0	0	0	0	0	0
4/4/2024 14:54	67502	WEWI_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
4/4/2024 14:54	26001	WDAM_T1	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
4/4/2024 14:54	45602	WOOL_T1	3	4	1	0.57	0.95	0.38	0.53	0.48	0	0	0	0	0	0
4/4/2024 14:54	26002	WDAM_T1	3	3	0	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
4/4/2024 14:55	59101	WALK_T2	1	2	1	0.5	0.25	-0.25	1.75	1.37	0	0	0	0	0	0
4/4/2024 14:56	44301	BEAV_T2	2	0	-2	0.2	0	-0.2	-0.06	-0.04	1	1	0	600	600	0
4/4/2024 14:56	44302	BEAV_T2	49	15	-34	0.36	0.63	0.27	0	0	0	0	0	0	0	0
4/4/2024 14:56	18001	ZION_T1	1	6	5	0.2	0.53	0.33	0	0	0	0	0	0	0	0
4/4/2024 14:56	45602	WOOL_T1	3	4	1	0.57	0.95	0.38	0.53	0.48	0	0	0	0	0	0
4/4/2024 14:56	20403	ASHF_T2	3	1	-2	0.4	0	-0.4	0.12	0.1	0	0	0	0	0	0
4/4/2024 14:57	44302	BEAV_T2	49	15	-34	0.36	0.63	0.27	0	0	0	0	0	0	0	0
4/4/2024 14:57	44301	BEAV_T2	2	0	-2	0.2	0	-0.2	-0.06	-0.04	1	1	0	600	600	0
4/4/2024 14:58	60101	COCA_T1	0	0	0	0	0	0	0.27	0.35	0	0	0	0	0	0
4/4/2024 14:59	52401	GRPA_T2	3	4	1	0.27	0.48	0.21	-0.47	-0.46	0	0	0	0	0	0
4/4/2024 14:59	52403	GRPA_T2	11	5	-6	0.35	0.22	-0.13	0	0	0	0	0	0	0	0
4/4/2024 14:59	20403	ASHF_T2	3	1	-2	0.4	0	-0.4	0.12	0.1	0	0	0	0	0	0
4/4/2024 14:59	52404	GRPA_T2	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
4/4/2024 14:59	52402	GRPA_T2	13	9	-4	0.82	1.07	0.25	0	0	0	0	0	0	0	0
4/4/2024 15:00	45001	LIME_2	38	31	-7	0.37	0.29	-0.08	0	0	0	0	0	0	0	0
4/4/2024 15:00	45602	WOOL_T1	3	5	2	0.7	0.86	0.16	0.53	0.48	0	0	0	0	0	0
4/4/2024 15:00	45003	LIME_2	1	2	1	5.1	2.45	-2.65	0	0	1	1	0	1200	1200	0
4/4/2024 15:00	45002	LIME_2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/4/2024 15:00	67502	WEWI_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
4/4/2024 15:01	45602	WOOL_T1	3	5	2	0.7	0.86	0.16	0.53	0.48	0	0	0	0	0	0
4/4/2024 15:02	45003	LIME_2	1	2	1	5.1	2.45	-2.65	0	0	1	1	0	1200	1200	0
4/4/2024 15:02	45002	LIME_2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/4/2024 15:02	45001	LIME_2	38	31	-7	0.37	0.29	-0.08	0	0	0	0	0	0	0	0
4/4/2024 15:04	52404	GRPA_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
4/4/2024 15:04	52403	GRPA_T2	5	3	-2	0.22	0.1	-0.12	0	0	0	0	0	0	0	0
4/4/2024 15:04	52401	GRPA_T2	1	4	3	0.4	0.58	0.18	-0.47	-0.46	0	0	0	0	0	0
4/4/2024 15:04	41902	REED_T1	0	0	0	0	0	0	1.14	1.15	0	0	0	0	0	0
4/4/2024 15:04	54501	ENOL_T2	0	1	1	0	0.1	0.1	0.09	0	0	0	0	0	0	0
4/4/2024 15:04	54502	ENOL_T2	1	3	2	0.8	0.33	-0.47	0	0	0	0	0	0	0	0
4/4/2024 15:04	54503	ENOL_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/4/2024 15:04	54505	ENOL_T2	2	3	1	0.5	0.87	0.37	0	0	0	0	0	0	0	0
4/4/2024 15:04	54504	ENOL_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/4/2024 15:04	52402	GRPA_T2	8	6	-2	1.15	1.32	0.17	0	0	0	0	0	0	0	0
4/4/2024 15:05	52401	GRPA_T2	1	4	3	0.4	0.58	0.18	-0.47	-0.46	0	0	0	0	0	0
4/4/2024 15:05	42201	SHEN_T2	0	0	0	0	0	0	-0.13	-0.12	1	1	0	600	600	0
4/4/2024 15:05	52403	GRPA_T2	5	3	-2	0.22	0.1	-0.12	0	0	0	0	0	0	0	0
4/4/2024 15:05	56501	ROCK_T2	14	42	28	0.34	0.31	-0.03	-0.02	-0.02	0	0	0	0	0	0
4/4/2024 15:05	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/4/2024 15:05	52402	GRPA_T2	8	6	-2	1.15	1.32	0.17	0	0	0	0	0	0	0	0
4/4/2024 15:05	56504	ROCK_T2	0	4	4	0	1.23	1.23	0	0	0	0	0	0	0	0
4/4/2024 15:05	52404	GRPA_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
4/4/2024 15:06	54503	ENOL_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/4/2024 15:06	54504	ENOL_T2	0	2	2	0	0.3	0.3	-1.03	-1.06	1	1	0	600	600	0
4/4/2024 15:06	54502	ENOL_T2	1	3	2	0.8	0.33	-0.47	0	0	0	0	0	0	0	0
4/4/2024 15:06	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 15:06	41902	REED_T1	0	0	0	0	0	0	1.14	1.15	0	0	0	0	0	0
4/4/2024 15:06	54505	ENOL_T2	2	3	1	0.5	0.87	0.37	0	0	0	0	0	0	0	0
4/4/2024 15:06	54501	ENOL_T2	0	1	1	0	0.1	0.1	0.1	0.09	0	0	0	0	0	0
4/4/2024 15:07	54504	ENOL_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/4/2024 15:07	43103	SMIL_T2	19	19	0	0.62	0.62	0	0	0	0	0	0	0	0	0
4/4/2024 15:07	43101	SMIL_T2	1	3	2	0.3	0.53	0.23	-0.81	-0.81	0	0	0	0	0	0
4/4/2024 15:07	54505	ENOL_T2	2	3	1	0.5	0.87	0.37	-1.28	-1.28	1	1	0	600	600	0
4/4/2024 15:07	43102	SMIL_T2	7	7	0	0.7	0.71	0.01	0	0	0	0	0	0	0	0
4/4/2024 15:07	54502	ENOL_T2	1	3	2	0.8	0.33	-0.47	0	0	0	0	0	0	0	0
4/4/2024 15:07	43104	SMIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/4/2024 15:07	41902	REED_T1	0	0	0	0	0	0	1.14	1.15	0	0	0	0	0	0
4/4/2024 15:07	43105	SMIL_T2	5	6	1	0.12	0.12	0	0	0	0	0	0	0	0	0
4/4/2024 15:07	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 15:07	54503	ENOL_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/4/2024 15:07	54501	ENOL_T2	0	1	1	0	0.1	0.1	0.1	0.09	0	0	0	0	0	0
4/4/2024 15:08	56504	ROCK_T2	0	4	4	0	1.23	1.23	0	0	0	0	0	0	0	0
4/4/2024 15:08	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 15:08	64101	REFR_T1	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
4/4/2024 15:08	41502	FAIR_T2	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
4/4/2024 15:08	56501	ROCK_T2	14	42	28	0.34	0.31	-0.03	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 15:09	56501	ROCK_T2	14	42	28	0.34	0.31	-0.03	-0.02	-0.02	0	0	0	0	0	0
4/4/2024 15:09	54505	ENOL_T2	2	3	1	0.5	0.87	0.37	-1.28	-1.28	1	1	0	600	600	0
4/4/2024 15:09	54503	ENOL_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/4/2024 15:09	40201	BEGA_T2	4	3	-1	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
4/4/2024 15:09	64101	REFR_T1	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
4/4/2024 15:09	54502	ENOL_T2	1	3	2	0.8	0.33	-0.47	0	0	0	0	0	0	0	0
4/4/2024 15:09	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 15:09	54504	ENOL_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/4/2024 15:09	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 15:09	56504	ROCK_T2	0	4	4	0	1.23	1.23	0	0	0	0	0	0	0	0
4/4/2024 15:10	40201	BEGA_T2	4	3	-1	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
4/4/2024 15:10	46001	BERW_T1	0	0	0	0	0	0	0.78	0.74	0	0	0	0	0	0
4/4/2024 15:10	46206	DANV_T2	0	0	0	0	0	0	0.6	0.65	1	1	0	1200	1200	0
4/4/2024 15:12	53902	HALI_T2	1	4	3	5.8	1.75	-4.05	0	0	0	0	0	0	0	0
4/4/2024 15:12	56601	HAMP_T1	0	3	3	0	0.27	0.27	-1.98	-1.96	0	0	0	0	0	0
4/4/2024 15:12	53901	HALI_T2	1	1	0	0.6	0.8	0.2	-1.04	-1.04	0	0	0	0	0	0
4/4/2024 15:12	63803	HEMP_T1	14	24	10	0.15	0.18	0.03	0	0	0	0	0	0	0	0
4/4/2024 15:12	63804	HEMP_T1	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
4/4/2024 15:12	11804	FRAN_T1	0	1	1	0	0.3	0.3	0.78	0.7	0	0	0	0	0	0
4/4/2024 15:12	11805	FRAN_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/4/2024 15:12	53903	HALI_T2	3	9	6	1.1	0.74	-0.36	0	0	0	0	0	0	0	0
4/4/2024 15:12	63802	HEMP_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
4/4/2024 15:13	10705	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 15:13	10702	CATA_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/4/2024 15:13	10707	CATA_T2	1	3	2	0.3	0.53	0.23	0	0	0	0	0	0	0	0
4/4/2024 15:13	46001	BERW_T1	0	0	0	0	0	0	0.78	0.74	0	0	0	0	0	0
4/4/2024 15:13	47001	HUGH_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
4/4/2024 15:14	56801	BENV_T1	34	37	3	0.96	0.86	-0.1	-0.81	-0.81	1	1	0	600	600	0
4/4/2024 15:14	56803	BENV_T1	8	5	-3	0.35	0.38	0.03	0	0	0	0	0	0	0	0
4/4/2024 15:14	53902	HALI_T2	1	4	3	5.8	1.75	-4.05	0	0	0	0	0	0	0	0
4/4/2024 15:14	53903	HALI_T2	3	9	6	1.1	0.74	-0.36	0	0	0	0	0	0	0	0
4/4/2024 15:14	63803	HEMP_T1	14	24	10	0.15	0.18	0.03	0	0	0	0	0	0	0	0
4/4/2024 15:14	53901	HALI_T2	1	1	0	0.6	0.8	0.2	-1.04	-1.04	0	0	0	0	0	0
4/4/2024 15:14	63804	HEMP_T1	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
4/4/2024 15:14	63801	HEMP_T1	0	0	0	0	0	0	0.07	0.02	0	0	0	0	0	0
4/4/2024 15:14	46206	DANV_T2	0	0	0	0	0	0	0.6	0.65	1	1	0	1200	1200	0
4/4/2024 15:15	63804	HEMP_T1	1	1	0	6.8	6.4	-0.4	0	0	0	0	0	0	0	0
4/4/2024 15:15	46001	BERW_T1	0	0	0	0	0	0	1.55	1.48	0	0	0	0	0	0
4/4/2024 15:15	56801	BENV_T1	33	34	1	0.82	0.89	0.07	-0.81	-0.81	1	1	0	600	600	0
4/4/2024 15:15	53902	HALI_T2	3	4	1	2.07	1.85	-0.22	0	0	0	0	0	0	0	0
4/4/2024 15:15	63802	HEMP_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
4/4/2024 15:15	47001	HUGH_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
4/4/2024 15:15	56501	ROCK_T2	42	5	-37	0.3	0.62	0.32	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 15:15	56803	BENV_T1	4	5	1	0.23	0.38	0.15	0	0	0	0	0	0	0	0
4/4/2024 15:15	53903	HALI_T2	5	11	6	0.82	0.67	-0.15	0	0	0	0	0	0	0	0
4/4/2024 15:15	53901	HALI_T2	1	1	0	0.2	0.9	0.7	-2.08	-2.08	0	0	0	0	0	0
4/4/2024 15:15	63803	HEMP_T1	24	1	-23	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
4/4/2024 15:15	56504	ROCK_T2	1	4	3	0.1	1.23	1.13	0	0	0	0	0	0	0	0
4/4/2024 15:16	53903	HALI_T2	5	11	6	0.82	0.67	-0.15	0	0	0	0	0	0	0	0
4/4/2024 15:16	53902	HALI_T2	3	4	1	2.07	1.85	-0.22	0	0	0	0	0	0	0	0
4/4/2024 15:16	53901	HALI_T2	1	1	0	0.2	0.9	0.7	-1.04	-1.04	0	0	0	0	0	0
4/4/2024 15:17	53903	HALI_T2	5	11	6	0.82	0.67	-0.15	0	0	0	0	0	0	0	0
4/4/2024 15:17	53901	HALI_T2	1	1	0	0.2	0.9	0.7	-1.04	-1.04	0	0	0	0	0	0
4/4/2024 15:17	53902	HALI_T2	3	4	1	2.07	1.85	-0.22	0	0	0	0	0	0	0	0
4/4/2024 15:17	41801	GOCI_T2	128	199	71	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/4/2024 15:17	41802	GOCI_T2	18	17	-1	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
4/4/2024 15:18	51702	OBER_T1	2	6	4	3.2	1.47	-1.73	-0.62	-0.77	1	1	0	600	600	0
4/4/2024 15:18	51704	OBER_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/4/2024 15:19	56504	ROCK_T2	1	4	3	0.1	1.23	1.13	0	0	0	0	0	0	0	0
4/4/2024 15:19	56501	ROCK_T2	42	5	-37	0.3	0.62	0.32	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 15:19	63804	HEMP_T1	1	1	0	6.8	6.4	-0.4	0	0	0	0	0	0	0	0
4/4/2024 15:19	54502	ENOL_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/4/2024 15:19	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 15:19	63801	HEMP_T1	24	1	-23	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
4/4/2024 15:19	54504	ENOL_T2	1	2	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
4/4/2024 15:19	54505	ENOL_T2	2	3	1	0.6	0.87	0.27	-2.57	-2.56	2	2	0	1200	1200	0
4/4/2024 15:19	54503	ENOL_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/4/2024 15:19	63801	HEMP_T1	0	0	0	0	0	0	0.07	0.02	0	0	0	0	0	0
4/4/2024 15:20	54503	ENOL_T2	0	2	2	0	0.35	0.35	-1.96	-1.98	1	1	0	600	600	0
4/4/2024 15:20	54501	ENOL_T2	0	1	1	0	0.1	0.1	0.09	0.09	0	0	0	0	0	0
4/4/2024 15:20	54502	ENOL_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/4/2024 15:20	54504	ENOL_T2	1	2	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
4/4/2024 15:20	56504	ROCK_T2	1	4	3	0.1	1.23	1.13	0	0	0	0	0	0	0	0
4/4/2024 15:20	56501	ROCK_T2	42	5	-37	0.3	0.62	0.32	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 15:20	40601	PIGR_T1	28	12	-16	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
4/4/2024 15:20	54505	ENOL_T2	2	3	1	0.6	0.87	0.27	0	0	0	0	0	0	0	0
4/4/2024 15:20	40603	PIGR_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
4/4/2024 15:21	56501	ROCK_T2	42	5	-37	0.3	0.62	0.32	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 15:21	56504	ROCK_T2	1	4	3	0.1	1.23	1.13	83.96	83.96	0	0	0	0	0	0
4/4/2024 15:21	51704	OBER_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/4/2024 15:21	51702	OBER_T1	2	6	4	3.2	1.47	-1.73	-0.62	-0.77	1	1	0	600	600	0
4/4/2024 15:22	54505	ENOL_T2	2	3	1	0.6	0.87	0.27	-1.28	-1.28	1	1	0	600	600	0
4/4/2024 15:22	54503	ENOL_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/4/2024 15:22	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 15:22	54504	ENOL_T2	1	2	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
4/4/2024 15:22	54502	ENOL_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/4/2024 15:22	26002	WDAM_T1	1	3	2	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/4/2024 15:22	26001	WDAM_T1	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
4/4/2024 15:23	54504	ENOL_T2	1	2	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
4/4/2024 15:23	54502	ENOL_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/4/2024 15:23	56504	ROCK_T2	1	4	3	0.1	1.23	1.13	0	0	0	0	0	0	0	0
4/4/2024 15:23	56501	ROCK_T2	42	5	-37	0.3	0.62	0.32	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 15:23	54501	ENOL_T2	0	1	1	0	0.1	0.1	0.17	0.24	0	0	0	0	0	0
4/4/2024 15:23	54505	ENOL_T2	2	3	1	0.6	0.87	0.27	-3.85	-3.98	3	3	0	1800	1800	0
4/4/2024 15:23	54503	ENOL_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/4/2024 15:23	25402	LAHA_T2	27	143	116	0.23	1.04	0.81	-0.68	-0.69	0	0	0	0	0	0
4/4/2024 15:24	56501	ROCK_T2	42	5	-37	0.3	0.62	0.32	-0.02	-0.02	0	0	0	0	0	0
4/4/2024 15:24	54503	ENOL_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/4/2024 15:24	56504	ROCK_T2	1	4	3	0.1	1.23	1.13	0	0	0	0	0	0	0	0
4/4/2024 15:24	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 15:24	54502	ENOL_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/4/2024 15:24	54504	ENOL_T2	1	2	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
4/4/2024 15:24	54505	ENOL_T2	2	3	1	0.6	0.87	0.27	-1.28	-1.33	1	1	0	600	600	0
4/4/2024 15:25	56504	ROCK_T2	1	4	3	0.1	1.23	1.13	0	0	0	0	0	0	0	0
4/4/2024 15:25	56501	ROCK_T2	42	5	-37	0.3	0.62	0.32	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 15:27	40902	JESH_T1	1	4	3	0.2	0.33	0.13	-0.85	-0.78	0	0	0	0	0	0
4/4/2024 15:29	56601	HAMP_T1	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/4/2024 15:29	56603	HAMP_T1	0	0	0	0	0	0	-1.17	-1.12	0	0	0	0	0	0
4/4/2024 15:29	40902	JESH_T1	1	4	3	0.2	0.33	0.13	-0.85	-0.78	0	0	0	0	0	0
4/4/2024 15:33	41902	REED_T1	0	0	0	0	0	0	1.1	1.09	0	0	0	0	0	0
4/4/2024 15:34	41902	REED_T1	0	0	0	0	0	0	1.1	1.09	0	0	0	0	0	0
4/4/2024 15:34	40902	JESH_T1	3	4	1	0.33	0.28	-0.05	-0.85	-0.78	0	0	0	0	0	0
4/4/2024 15:34	42802	SELI_T1	1	1	0	0.2	0.2	0	-1.69	-1.73	2	2	0	1800	1800	0
4/4/2024 15:35	41902	REED_T1	0	0	0	0	0	0	1.1	1.09	0	0	0	0	0	0
4/4/2024 15:36	42802	SELI_T1	1	1	0	0.2	0.2	0	-0.85	-0.86	1	1	0	900	900	0
4/4/2024 15:36	56504	ROCK_T2	4	3	-1	1.23	0.37	-0.86	0	0	0	0	0	0	0	0
4/4/2024 15:36	56501	ROCK_T2	5	4	-1	0.62	0.2	-0.42	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 15:37	42802	SELI_T1	1	1	0	0.2	0.2	0	-0.85	-0.86	1	1	0	900	900	0
4/4/2024 15:38	42201	SHEN_T2	0	0	0	0	0	0	-0.1	-0.13	1	1	0	600	600	0
4/4/2024 15:39	42201	SHEN_T2	0	0	0	0	0	0	-0.1	-0.13	1	1	0	600	600	0
4/4/2024 15:39	10805	CHHI_T2	1	1	0	7.5	7.9	0.4	-0.87	-0.85	1	0	-1	600	0	-600
4/4/2024 15:40	46001	BERW_T1	0	0	0	0	0	0	0.75	0.7	0	0	0	0	0	0
4/4/2024 15:40	59202	THOM_T1	5	10	5	0.14	0.28	0.14	0	0	0	0	0	0	0	0
4/4/2024 15:41	56501	ROCK_T2	5	4	-1	0.62	0.2	-0.42	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 15:41	56504	ROCK_T2	4	3	-1	1.23	0.37	-0.86	0	0	0	0	0	0	0	0
4/4/2024 15:42	46001	BERW_T1	0	0	0	0	0	0	0.75	0.7	0	0	0	0	0	0
4/4/2024 15:43	10805	CHHI_T2	1	1	0	7.5	7.9	0.4	-0.87	-0.85	0	0	0	0	0	0
4/4/2024 15:44	46001	BERW_T1	0	0	0	0	0	0	0.75	0.7	0	0	0	0	0	0
4/4/2024 15:46	40101	HUNT_T2	2	3	1	0.45	0.27	-0.18	-0.32	-0.33	0	0	0	0	0	0
4/4/2024 15:47	46001	BERW_T1	0	0	0	0	0	0	0.75	0.7	0	0	0	0	0	0
4/4/2024 15:50	40101	HUNT_T2	2	3	1	0.45	0.27	-0.18	-0.64	-0.67	0	0	0	0	0	0
4/4/2024 15:51	56504	ROCK_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
4/4/2024 15:51	56501	ROCK_T2	4	1	-3	0.2	0.1	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 15:52	67502	WEWI_T2	0	0	0	0	0	0	-0.43	-0.4	0	0	0	0	0	0
4/4/2024 15:53	67502	WEWI_T2	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
4/4/2024 15:56	56504	ROCK_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/4/2024 15:56	56501	ROCK_T2	4	1	-3	0.2	0.1	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 15:57	60101	COCA_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
4/4/2024 15:59	56802	BENV_T2	29	14	-15	0.59	0.46	-0.13	-0.66	-0.67	0	0	0	0	0	0
4/4/2024 16:00	40902	JESH_T1	3	2	-1	0.33	0.25	-0.08	-0.75	-0.8	0	0	0	0	0	0
4/4/2024 16:01	59301	MCAL_T1	5	3	-2	0.66	0.8	0.14	-1.38	-1.46	1	1	0	600	600	0
4/4/2024 16:03	12701	MACU_T1	0	1	1	0	0.3	0.3	0.13	0.1	0	0	0	0	0	0
4/4/2024 16:05	40902	JESH_T1	3	2	-1	0.33	0.25	-0.08	-0.75	-0.8	0	0	0	0	0	0
4/4/2024 16:11	54505	ENOL_T2	1	2	1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
4/4/2024 16:11	54502	ENOL_T2	1	1	0	0.6	0.4	-0.2	-1.16	-1.15	1	1	0	600	600	0
4/4/2024 16:13	46001	BERW_T1	0	0	0	0	0	0	0.67	0.64	0	0	0	0	0	0
4/4/2024 16:16	40902	JESH_T1	2	2	0	0.2	0.35	0.15	-0.8	-0.8	0	0	0	0	0	0
4/4/2024 16:18	46001	BERW_T1	0	0	0	0	0	0	0.67	0.64	0	0	0	0	0	0
4/4/2024 16:18	52402	GRPA_T2	4	4	0	1.4	1.68	0.28	0	0	0	0	0	0	0	0
4/4/2024 16:18	52403	GRPA_T2	1	9	8	0.2	0.25	0.05	0.15	0.1	0	0	0	0	0	0
4/4/2024 16:18	52404	GRPA_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/4/2024 16:19	45001	LIME_2	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
4/4/2024 16:19	45003	LIME_2	1	1	0	4.2	4	-0.2	0	0	1	1	0	1200	1200	0
4/4/2024 16:21	54502	ENOL_T2	1	1	0	0.4	0.4	0	-1.16	-1.15	1	1	0	600	600	0
4/4/2024 16:21	54505	ENOL_T2	2	1	-1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
4/4/2024 16:21	40902	JESH_T1	2	2	0	0.2	0.35	0.15	-0.8	-0.8	0	0	0	0	0	0
4/4/2024 16:24	67901	WNHO_T2	0	93	93	0	0.27	0.27	-0.03	-0.25	0	0	0	0	0	0
4/4/2024 16:27	46302	ROHR_T1	4	5	1	2.28	2	-0.28	0.19	0.18	0	0	0	0	0	0
4/4/2024 16:27	46301	ROHR_T1	32	92	60	0.14	0.26	0.12	0	0	0	0	0	0	0	0
4/4/2024 16:29	46001	BERW_T1	0	0	0	0	0	0	0.64	0.68	0	0	0	0	0	0
4/4/2024 16:32	40902	JESH_T1	1	1	0	0.2	0.5	0.3	-0.8	-0.83	0	0	0	0	0	0
4/4/2024 16:34	46001	BERW_T1	0	0	0	0	0	0	0.64	0.68	0	0	0	0	0	0
4/4/2024 16:37	40902	JESH_T1	1	1	0	0.2	0.5	0.3	-0.8	-0.83	0	0	0	0	0	0
4/4/2024 16:39	27101	GFLD_T2	0	1	1	0	0	0	0.47	-0.39	0	0	0	0	0	0
4/4/2024 16:48	54505	ENOL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/4/2024 16:48	54502	ENOL_T2	0	0	0	0	0	0	-1.15	-1.12	1	1	0	600	600	0
4/4/2024 16:51	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 17:23	40502	CRES_T2	0	17	17	0	0.23	0.23	-0.01	0	0	0	0	0	0	0
4/4/2024 17:23	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 17:40	44301	BEAV_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/4/2024 17:40	44302	BEAV_T2	177	169	-8	0.41	0.49	0.08	0.27	0.25	0	0	0	0	0	0
4/4/2024 18:22	54203	PENN_T1	130	110	-20	0.3	0.32	0.02	0.01	0	0	0	0	0	0	0
4/4/2024 18:22	54201	PENN_T1	215	178	-37	0.41	0.41	0	0	0	0	0	0	0	0	0
4/4/2024 18:22	54205	PENN_T1	56	10	-46	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/4/2024 19:04	60803	BUCK_T1	3	1	-2	0.13	0.1	-0.03	-0.5	-0.51	1	1	0	600	600	0
4/4/2024 19:45	53601	DALM_T2	1	1	0	0.7	0.5	-0.2	-0.69	-0.75	0	0	0	0	0	0
4/4/2024 19:48	54502	ENOL_T2	0	0	0	0	0	0	-1.15	-1.15	1	1	0	600	600	0
4/4/2024 20:02	54505	ENOL_T2	0	0	0	0	0	0	-1.21	-1.2	1	1	0	600	600	0
4/4/2024 20:10	60801	BUCK_T1	0	1	1	0	0.1	0.1	-0.18	-0.17	0	0	0	0	0	0
4/4/2024 20:10	60803	BUCK_T1	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 20:11	62607	ENGL_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
4/4/2024 20:11	62604	ENGL_T1	0	0	0	0	0	0	-0.54	-0.48	1	1	0	600	600	0
4/4/2024 20:20	54201	PENN_T1	52	64	12	0.31	0.33	0.02	-1.28	-1.26	0	0	0	0	0	0
4/4/2024 20:20	54203	PENN_T1	18	18	0	0.69	0.83	0.14	0	0	0	0	0	0	0	0
4/4/2024 20:23	54203	PENN_T1	18	18	0	0.69	0.83	0.14	0	0	0	0	0	0	0	0
4/4/2024 20:23	54201	PENN_T1	52	64	12	0.31	0.33	0.02	-1.26	-1.26	0	0	0	0	0	0
4/4/2024 20:29	40101	HUNT_T2	138	50	-88	0.53	0.63	0.1	-0.29	-0.32	0	0	0	0	0	0
4/4/2024 20:37	54201	PENN_T1	61	86	25	0.32	0.32	0	0	0	0	0	0	0	0	0
4/4/2024 20:37	54203	PENN_T1	18	19	1	0.77	0.87	0.1	-0.02	0.01	0	0	0	0	0	0
4/4/2024 20:45	64202	KINZ_T1	8	11	3	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
4/4/2024 20:45	59402	RFLD_T2	0	0	0	0	0	0	-0.84	-0.83	1	1	0	450	450	0
4/4/2024 20:45	64204	KINZ_T1	8	15	7	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
4/4/2024 20:45	64201	KINZ_T1	6	6	0	0.43	0.5	0.07	0.18	0.14	2	2	0	600	600	0
4/4/2024 20:45	64203	KINZ_T1	12	21	9	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
4/4/2024 20:45	56802	BENV_T2	75	91	16	0.21	0.24	0.03	-1.36	-1.35	0	0	0	0	0	0
4/4/2024 20:49	40101	HUNT_T2	30	22	-8	0.6	0.76	0.16	-0.32	-0.32	0	0	0	0	0	0
4/4/2024 20:49	57401	SPAN_T1	0	0	0	0	0	0	-0.81	-0.83	1	1	0	600	600	0
4/4/2024 20:58	45501	DERR_T2	0	0	0	0	0	0	-0.02	-0.05	2	2	0	1800	1800	0
4/4/2024 21:03	53903	HALI_T2	2	1	-1	1	0.3	-0.7	-0.15	-0.15	0	0	0	0	0	0
4/4/2024 21:03	53901	HALI_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
4/4/2024 21:03	53902	HALI_T2	1	1	0	5	5.3	0.3	0	0	0	0	0	0	0	0
4/4/2024 21:06	52501	PROG_T1	0	0	0	0	0	0	0.31	0.28	1	1	0	300	300	0
4/4/2024 21:07	42802	SELI_T1	0	0	0	0	0	0	-1.04	-1.06	1	0	-1	900	0	-900
4/4/2024 21:08	44601	SALE_T2	0	0	0	0	0	0	-0.08	-0.02	0	0	0	0	0	0
4/4/2024 21:09	55105	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 21:11	44601	SALE_T2	0	0	0	0	0	0	-0.08	-0.02	0	0	0	0	0	0
4/4/2024 21:12	27502	WEIS_T2	0	0	0	0	0	0	-0.63	-0.72	0	0	0	0	0	0
4/4/2024 21:13	40101	HUNT_T2	19	15	-4	0.6	0.78	0.18	-0.31	-0.32	0	0	0	0	0	0
4/4/2024 21:14	42903	MIDD_T2	2	2	0	1.95	2.3	0.35	0	0	0	0	0	0	0	0
4/4/2024 21:14	42901	MIDD_T2	59	130	71	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/4/2024 21:14	42902	MIDD_T2	22	40	18	0.25	0.28	0.03	-0.42	-0.34	0	0	0	0	0	0
4/4/2024 21:15	44301	BEAV_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:15	44302	BEAV_T2	35	54	19	0.2	0.24	0.04	0.23	0.25	0	0	0	0	0	0
4/4/2024 21:16	24902	WHHA_T1	172	211	39	0.85	1.62	0.77	0	0	0	0	0	0	0	0
4/4/2024 21:16	20402	ASHF_T2	6	6	0	0.78	1.8	1.02	0	0	0	0	0	0	0	0
4/4/2024 21:16	20403	ASHF_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
4/4/2024 21:17	20402	ASHF_T2	6	6	0	0.78	1.8	1.02	0	0	0	0	0	0	0	0
4/4/2024 21:17	20403	ASHF_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
4/4/2024 21:18	24902	WHHA_T1	172	211	39	0.85	1.62	0.77	0	0	0	0	0	0	0	0
4/4/2024 21:18	64204	KINZ_T1	15	29	14	0.27	0.32	0.05	0	0	0	0	0	0	0	0
4/4/2024 21:18	20403	ASHF_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
4/4/2024 21:18	64203	KINZ_T1	18	63	45	0.14	0.24	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:18	64201	KINZ_T1	6	7	1	0.5	0.72	0.22	0.18	0.26	2	2	0	600	600	0
4/4/2024 21:18	20402	ASHF_T2	6	6	0	0.78	1.8	1.02	0	0	0	0	0	0	0	0
4/4/2024 21:18	64202	KINZ_T1	10	14	4	0.23	0.39	0.16	0	0	0	0	0	0	0	0
4/4/2024 21:19	42802	SELI_T1	0	0	0	0	0	0	-1.06	-0.04	0	0	0	0	0	0
4/4/2024 21:20	40101	HUNT_T2	14	9	-5	0.66	0.55	-0.11	-0.31	-0.32	0	0	0	0	0	0
4/4/2024 21:20	16402	MOPO_T1	0	1	1	0	0	0	-0.09	-0.04	0	0	0	0	0	0
4/4/2024 21:21	46004	BERW_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
4/4/2024 21:21	46002	BERW_T2	0	13	13	0	0.15	0.15	0	0	0	0	0	0	0	0
4/4/2024 21:21	46003	BERW_T2	0	34	34	0	0.16	0.16	0	0	0	0	0	0	0	0
4/4/2024 21:21	42802	SELI_T1	0	0	0	0	0	0	-1.06	-0.04	0	0	0	0	0	0
4/4/2024 21:22	40602	PIGR_T1	1	1	0	2.3	2	-0.3	0	0	0	0	0	0	0	0
4/4/2024 21:22	40601	PIGR_T1	8	100	92	0.13	0.22	0.09	0	0	0	0	0	0	0	0
4/4/2024 21:22	15701	TANN_T1	10	26	16	0.67	0.42	-0.25	0	0	0	0	0	0	0	0
4/4/2024 21:22	40603	PIGR_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
4/4/2024 21:22	10705	CATA_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
4/4/2024 21:22	15704	TANN_T1	0	3	3	0	0.1	0.1	-1.26	-1.39	0	0	0	0	0	0
4/4/2024 21:23	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 21:23	47001	HUGH_T2	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
4/4/2024 21:23	42701	AUGU_T1	0	1	1	0	0.6	0.6	0	0	2	2	0	1800	1800	0
4/4/2024 21:23	42802	SELI_T1	0	0	0	0	0	0	-0.04	-0.11	0	0	0	0	0	0
4/4/2024 21:24	26002	WDAM_T1	6	42	36	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
4/4/2024 21:24	46301	ROHR_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:24	56802	BENV_T2	87	157	70	0.23	0.34	0.11	-1.38	-1.37	0	0	0	0	0	0
4/4/2024 21:24	40101	HUNT_T2	14	9	-5	0.66	0.55	-0.11	-0.32	-0.32	0	0	0	0	0	0
4/4/2024 21:24	16302	ALPA_T2	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
4/4/2024 21:24	46302	ROHR_T1	4	4	0	1.65	2.15	0.5	0.2	0.21	0	0	0	0	0	0
4/4/2024 21:24	26001	WDAM_T1	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
4/4/2024 21:24	13901	SEID_T1	0	0	0	0	0	0	-0.8	-0.74	1	1	0	1200	1200	0
4/4/2024 21:25	43202	MVIL_T2	3	17	14	0.13	0.21	0.08	-0.68	-0.69	0	0	0	0	0	0
4/4/2024 21:25	57401	SPAN_T1	0	2	2	0	0.35	0.35	-0.83	-0.83	1	1	0	600	600	0
4/4/2024 21:25	10801	CHHI_T1	1	0	-1	0.1	0	-0.1	-0.94	-0.95	1	1	0	900	900	0
4/4/2024 21:25	46301	ROHR_T1	0	3	3	0	0.1	0.1	0.23	0.2	0	0	0	0	0	0
4/4/2024 21:25	47001	HUGH_T2	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
4/4/2024 21:25	46302	ROHR_T1	4	4	0	1.65	2.15	0.5	0	0	0	0	0	0	0	0
4/4/2024 21:26	20402	ASHF_T2	6	6	0	0.78	1.8	1.02	0	0	0	0	0	0	0	0
4/4/2024 21:26	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 21:26	20403	ASHF_T2	0	0	0	0	0	0	0.28	0.23	0	0	0	0	0	0
4/4/2024 21:26	56802	BENV_T2	87	157	70	0.23	0.34	0.11	-4.13	-4.11	0	0	0	0	0	0
4/4/2024 21:26	63501	HEID_TBK1-2	0	1	1	0	0.2	0.2	0.46	0.4	0	0	0	0	0	0
4/4/2024 21:26	40101	HUNT_T2	14	9	-5	0.66	0.55	-0.11	-0.32	-0.32	0	0	0	0	0	0
4/4/2024 21:27	62604	ENGL_T1	0	0	0	0	0	0	-1.59	-1.46	3	3	0	1800	1800	0
4/4/2024 21:27	62607	ENGL_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
4/4/2024 21:27	40101	HUNT_T2	14	9	-5	0.66	0.55	-0.11	-0.32	-0.32	0	0	0	0	0	0
4/4/2024 21:27	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
4/4/2024 21:27	57401	SPAN_T1	0	2	2	0	0.35	0.35	-0.83	-0.83	1	1	0	600	600	0
4/4/2024 21:27	56802	BENV_T2	87	157	70	0.23	0.34	0.11	-1.38	-1.37	0	0	0	0	0	0
4/4/2024 21:27	40902	JESH_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
4/4/2024 21:27	46001	BERW_T1	0	0	0	0	0	0	0.69	0.62	0	0	0	0	0	0
4/4/2024 21:28	40101	HUNT_T2	14	9	-5	0.66	0.55	-0.11	-0.32	-0.32	0	0	0	0	0	0
4/4/2024 21:28	48301	ORWI_T1	2	2	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
4/4/2024 21:29	57401	SPAN_T1	0	2	2	0	0.35	0.35	-0.83	-0.83	1	1	0	600	600	0
4/4/2024 21:29	46302	ROHR_T1	4	4	0	1.65	2.15	0.5	0	0	0	0	0	0	0	0
4/4/2024 21:29	64201	KINZ_T1	6	7	1	0.5	0.72	0.22	0	0	0	0	0	0	0	0
4/4/2024 21:29	64202	KINZ_T1	10	14	4	0.23	0.39	0.16	0	0	0	0	0	0	0	0
4/4/2024 21:29	10801	CHHI_T1	1	0	-1	0.1	0	-0.1	-0.94	-0.95	1	1	0	900	900	0
4/4/2024 21:29	40502	CRES_T2	1	16	15	0.1	0.26	0.16	0.12	0.03	0	0	0	0	0	0
4/4/2024 21:29	64203	KINZ_T1	18	63	45	0.14	0.24	0.1	0.12	0.05	0	0	0	0	0	0
4/4/2024 21:29	46301	ROHR_T1	0	3	3	0	0.1	0.1	0.23	0.2	0	0	0	0	0	0
4/4/2024 21:29	64204	KINZ_T1	15	29	14	0.27	0.32	0.05	0	0	0	0	0	0	0	0
4/4/2024 21:29	10805	CHHI_T2	1	6	5	8.2	7.7	-0.5	-0.77	-0.8	0	0	0	0	0	0
4/4/2024 21:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 21:30	41802	GOCI_T2	15	19	4	0.25	0.34	0.09	0	0	0	0	0	0	0	0
4/4/2024 21:30	41801	GOCI_T2	6	69	63	0.12	0.19	0.07	0	0	0	0	0	0	0	0
4/4/2024 21:30	67204	TEHI_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
4/4/2024 21:30	63602	LETO_T1	0	0	0	0	0	0	-0.48	-0.55	0	0	0	0	0	0
4/4/2024 21:30	17002	RIRO_T2	180	321	141	0.22	0.27	0.05	0.36	0.39	0	0	0	0	0	0
4/4/2024 21:31	59302	MCAL_T1	0	0	0	0	0	0	-0.38	-0.35	1	1	0	600	600	0
4/4/2024 21:31	40101	HUNT_T2	9	19	10	0.7	0.54	-0.16	-0.32	-0.32	0	0	0	0	0	0
4/4/2024 21:31	42802	SELI_T1	0	0	0	0	0	0	-0.04	-0.11	0	0	0	0	0	0
4/4/2024 21:31	59301	MCAL_T1	0	1	1	0	0.4	0.4	-1.16	-1.18	0	0	0	0	0	0
4/4/2024 21:32	64202	KINZ_T1	11	15	4	0.29	0.39	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:32	64201	KINZ_T1	6	6	0	0.5	0.72	0.22	0.26	0.43	2	1	-1	600	300	-300
4/4/2024 21:32	46004	BERW_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
4/4/2024 21:32	13704	SCHN_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
4/4/2024 21:32	46003	BERW_T2	5	34	29	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/4/2024 21:32	42701	AUGU_T1	1	1	0	0.3	1	0.7	0	0	2	2	0	1800	1800	0
4/4/2024 21:32	64204	KINZ_T1	14	30	16	0.31	0.33	0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/4/2024 21:32	46002	BERW_T2	3	13	10	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/4/2024 21:32	16301	ALPA_T1	1	2	1	0.3	0.35	0.05	-0.95	-0.94	0	0	0	0	0	0
4/4/2024 21:32	67401	WAKE_T2	98	120	22	0.24	0.29	0.05	-0.9	-0.91	0	0	0	0	0	0
4/4/2024 21:32	10705	CATA_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
4/4/2024 21:32	41502	FAIR_T2	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
4/4/2024 21:32	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
4/4/2024 21:32	60101	COCA_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
4/4/2024 21:32	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 21:32	10805	CHHI_T2	1	9	8	7.9	1.45	-6.45	-0.77	-0.8	0	0	0	0	0	0
4/4/2024 21:32	64203	KINZ_T1	35	65	30	0.17	0.24	0.07	0	0	0	0	0	0	0	0
4/4/2024 21:33	62607	ENGL_T1	1	1	0	0.8	0.2	-0.6	-0.76	-0.77	0	0	0	0	0	0
4/4/2024 21:33	53901	HALI_T2	1	1	0	0.7	0.9	0.2	-1.47	-1.48	0	0	0	0	0	0
4/4/2024 21:33	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
4/4/2024 21:33	40201	BEGA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/4/2024 21:33	67001	STHI_T2	6	165	159	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
4/4/2024 21:33	46002	BERW_T2	3	13	10	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/4/2024 21:33	26002	WDAM_T1	40	35	-5	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
4/4/2024 21:33	12701	MACU_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
4/4/2024 21:33	26001	WDAM_T1	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
4/4/2024 21:33	46003	BERW_T2	5	34	29	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/4/2024 21:33	67502	WEWI_T2	0	0	0	0	0	0	-0.44	-0.41	0	0	0	0	0	0
4/4/2024 21:33	67002	STHI_T2	1	24	23	0.1	0.12	0.02	2.16	2.16	0	0	0	0	0	0
4/4/2024 21:33	46004	BERW_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
4/4/2024 21:33	65901	SAKR_T2	0	0	0	0	0	0	-1.47	-1.5	1	1	0	900	900	0
4/4/2024 21:33	13105	NHAM_T2	0	0	0	0	0	0	-0.69	-0.69	1	1	0	1200	1200	0
4/4/2024 21:33	16301	ALPA_T1	1	2	1	0.3	0.35	0.05	-0.48	-0.47	0	0	0	0	0	0
4/4/2024 21:33	53903	HALI_T2	1	2	1	0.1	1.45	1.35	0	0	0	0	0	0	0	0
4/4/2024 21:33	42701	AUGU_T1	1	1	0	0.3	1	0.7	0	0	4	4	0	3600	3600	0
4/4/2024 21:34	51002	NHAR_T1	1	22	21	1.7	0.21	-1.49	0	0	0	0	0	0	0	0
4/4/2024 21:34	40505	CRES_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
4/4/2024 21:34	64702	LITI_T2	0	0	0	0	0	0	-0.66	-0.63	0	0	0	0	0	0
4/4/2024 21:34	67002	STHI_T2	1	24	23	0.1	0.12	0.02	1.08	1.08	0	0	0	0	0	0
4/4/2024 21:34	60803	BUCK_T1	13	27	14	0.42	0.45	0.03	-0.52	-0.53	1	1	0	600	600	0
4/4/2024 21:34	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
4/4/2024 21:34	51003	NHAR_T1	4	103	99	0.18	0.2	0.02	0	0	0	0	0	0	0	0
4/4/2024 21:34	64801	MONE_T2	4	5	1	0.2	0.18	-0.02	0.33	0.34	0	0	0	0	0	0
4/4/2024 21:34	55002	NEWP_T1	4	5	1	0.55	0.56	0.01	-0.25	-0.27	0	0	0	0	0	0
4/4/2024 21:34	56802	BENV_T2	95	310	215	0.23	0.54	0.31	-1.38	-1.37	0	0	0	0	0	0
4/4/2024 21:34	67001	STHI_T2	6	165	159	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
4/4/2024 21:34	51004	NHAR_T1	8	14	6	1.24	1.04	-0.2	-0.45	-0.46	0	0	0	0	0	0
4/4/2024 21:34	67502	WEWI_T2	0	0	0	0	0	0	-0.87	-0.83	0	0	0	0	0	0
4/4/2024 21:34	67401	WAKE_T2	98	120	22	0.24	0.29	0.05	0	0	0	0	0	0	0	0
4/4/2024 21:34	60101	COCA_T1	0	0	0	0	0	0	0.52	0.55	0	0	0	0	0	0
4/4/2024 21:34	64802	MONE_T2	19	24	5	0.12	0.13	0.01	0	0	0	0	0	0	0	0
4/4/2024 21:34	60801	BUCK_T1	42	57	15	0.3	0.37	0.07	0	0	0	0	0	0	0	0
4/4/2024 21:34	12701	MACU_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
4/4/2024 21:35	16301	ALPA_T1	1	2	1	0.3	0.35	0.05	-0.48	-0.47	0	0	0	0	0	0
4/4/2024 21:35	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
4/4/2024 21:35	12701	MACU_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
4/4/2024 21:35	13704	SCHN_T2	0	0	0	0	0	0	-0.77	-0.81	0	0	0	0	0	0
4/4/2024 21:35	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:35	43108	SMIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/4/2024 21:35	43202	MVIL_T2	11	32	21	0.18	0.2	0.02	0	0	0	0	0	0	0	0
4/4/2024 21:35	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 21:35	54505	ENOL_T2	0	1	1	0	0.2	0.2	-1.18	-1.2	1	1	0	600	600	0
4/4/2024 21:35	67002	STHI_T2	1	24	23	0.1	0.12	0.02	0.54	0.54	0	0	0	0	0	0
4/4/2024 21:35	43102	SMIL_T2	7	7	0	0.39	0.7	0.31	0	0	0	0	0	0	0	0
4/4/2024 21:35	65003	NEFF_T2	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0	0
4/4/2024 21:35	67001	STHI_T2	6	165	159	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
4/4/2024 21:35	43103	SMIL_T2	15	13	-2	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
4/4/2024 21:35	53901	HALI_T2	1	1	0	0.7	0.9	0.2	-1.47	-1.48	0	0	0	0	0	0
4/4/2024 21:35	43105	SMIL_T2	1	17	16	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/4/2024 21:35	43101	SMIL_T2	0	0	0	0	0	0	-0.77	-0.81	0	0	0	0	0	0
4/4/2024 21:35	45001	LIME_2	28	36	8	0.38	0.51	0.13	0	0	0	0	0	0	0	0
4/4/2024 21:35	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 21:35	40505	CRES_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
4/4/2024 21:35	65001	NEFF_T2	193	231	38	0.22	0.32	0.1	-1.02	-1	1	1	0	1200	1200	0
4/4/2024 21:35	53903	HALI_T2	1	2	1	0.1	1.45	1.35	0	0	0	0	0	0	0	0
4/4/2024 21:35	43201	MVIL_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
4/4/2024 21:35	45003	LIME_2	2	2	0	2	1.9	-0.1	0	0	1	1	0	1200	1200	0
4/4/2024 21:36	54205	PENN_T1	4	57	53	0.1	0.25	0.15	0	0	0	0	0	0	0	0
4/4/2024 21:36	56802	BENV_T2	95	310	215	0.23	0.54	0.31	-5.51	-5.48	0	0	0	0	0	0
4/4/2024 21:36	57303	MOAL_T2	1	1	0	7.5	6.8	-0.7	0	0	0	0	0	0	0	0
4/4/2024 21:36	59202	THOM_T1	0	15	15	0	0.16	0.16	0	0	0	0	0	0	0	0
4/4/2024 21:36	54201	PENN_T1	145	293	148	0.39	0.47	0.08	0	0	0	0	0	0	0	0
4/4/2024 21:36	57304	MOAL_T2	1	1	0	0.1	0.4	0.3	-0.31	-0.38	0	0	0	0	0	0
4/4/2024 21:36	46302	ROHR_T1	2	4	2	3	2.18	-0.82	0.2	0.21	0	0	0	0	0	0
4/4/2024 21:36	46001	BERW_T1	0	0	0	0	0	0	0.69	0.62	0	0	0	0	0	0
4/4/2024 21:36	42601	TUSC_T1	0	10	10	0	0.52	0.52	-0.47	-0.48	2	2	0	1800	1800	0
4/4/2024 21:36	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 21:36	48301	ORWI_T1	2	2	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
4/4/2024 21:36	54505	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 21:36	54203	PENN_T1	40	244	204	0.62	0.3	-0.32	-0.03	-0.03	0	0	0	0	0	0
4/4/2024 21:36	46301	ROHR_T1	0	15	15	0	0.18	0.18	0	0	0	0	0	0	0	0
4/4/2024 21:36	64702	LITI_T2	0	0	0	0	0	0	-0.66	-0.63	0	0	0	0	0	0
4/4/2024 21:36	45501	DERR_T2	0	0	0	0	0	0	-0.15	-0.18	2	2	0	1800	1800	0
4/4/2024 21:36	55002	NEWP_T1	4	5	1	0.55	0.56	0.01	0	0	0	0	0	0	0	0
4/4/2024 21:36	60701	BREC_T1	0	0	0	0	0	0	-0.52	-0.51	1	1	0	600	600	0
4/4/2024 21:36	54501	ENOL_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
4/4/2024 21:36	55001	NEWP_T1	0	0	0	0	0	0	-0.86	-0.28	1	0	-1	600	0	-600
4/4/2024 21:36	59201	THOM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/4/2024 21:36	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:37	64702	LITI_T2	0	0	0	0	0	0	-0.66	-0.63	0	0	0	0	0	0
4/4/2024 21:37	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
4/4/2024 21:37	52401	GRPA_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
4/4/2024 21:37	54505	ENOL_T2	0	1	1	0	0.2	0.2	-2.36	-2.4	2	2	0	1200	1200	0
4/4/2024 21:37	52402	GRPA_T2	4	5	1	1.23	1.38	0.15	0	0	0	0	0	0	0	0
4/4/2024 21:37	52403	GRPA_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:37	54501	ENOL_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
4/4/2024 21:37	52404	GRPA_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/4/2024 21:37	57401	SPAN_T1	2	2	0	0.15	0.45	0.3	-1.65	-1.66	2	2	0	1200	1200	0
4/4/2024 21:37	55002	NEWP_T1	4	5	1	0.55	0.56	0.01	-0.25	-0.27	0	0	0	0	0	0
4/4/2024 21:37	67605	WARW_T1	4	5	1	0.15	0.18	0.03	-0.79	-0.78	0	0	0	0	0	0
4/4/2024 21:37	53903	HALI_T2	1	2	1	0.1	1.45	1.35	0	0	0	0	0	0	0	0
4/4/2024 21:37	46203	DANV_T2	31	110	79	0.26	0.53	0.27	-0.97	-0.99	0	0	0	0	0	0
4/4/2024 21:37	56501	ROCK_T2	0	4	4	0	0.2	0.2	-0.02	-0.02	0	0	0	0	0	0
4/4/2024 21:37	42201	SHEN_T2	0	0	0	0	0	0	-0.25	-0.28	1	1	0	600	600	0
4/4/2024 21:37	56603	HAMP_T1	0	0	0	0	0	0	-1.09	-1.11	0	0	0	0	0	0
4/4/2024 21:37	42601	TUSC_T1	0	10	10	0	0.52	0.52	-0.47	-0.48	2	2	0	1800	1800	0
4/4/2024 21:37	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:37	60701	BREC_T1	0	0	0	0	0	0	-0.52	-0.51	1	1	0	600	600	0
4/4/2024 21:37	64101	REFR_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
4/4/2024 21:37	53901	HALI_T2	1	1	0	0.7	0.9	0.2	-1.47	-1.48	0	0	0	0	0	0
4/4/2024 21:37	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 21:38	52404	GRPA_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/4/2024 21:38	56501	ROCK_T2	0	4	4	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 21:38	40201	BEGA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/4/2024 21:38	53903	HALI_T2	1	2	1	0.1	1.45	1.35	-0.14	-0.14	0	0	0	0	0	0
4/4/2024 21:38	40504	CRES_T1	0	0	0	0	0	0	-0.96	-0.88	0	0	0	0	0	0
4/4/2024 21:38	56803	BENV_T1	1	3	2	0.2	0.47	0.27	0	0	0	0	0	0	0	0
4/4/2024 21:38	58001	WCAR_T1	4	4	0	0.5	0.93	0.43	0	0	0	0	0	0	0	0
4/4/2024 21:38	52002	LING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/4/2024 21:38	67605	WARW_T1	4	5	1	0.15	0.18	0.03	-0.78	-0.81	0	0	0	0	0	0
4/4/2024 21:38	67002	STHI_T2	1	24	23	0.1	0.12	0.02	0.54	0.53	0	0	0	0	0	0
4/4/2024 21:38	67001	STHI_T2	6	165	159	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
4/4/2024 21:38	56802	BENV_T2	95	310	215	0.23	0.54	0.31	-4.11	-4.05	0	0	0	0	0	0
4/4/2024 21:38	53901	HALI_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/4/2024 21:38	43202	MVIL_T2	11	32	21	0.18	0.2	0.02	-0.69	-0.69	0	0	0	0	0	0
4/4/2024 21:38	56801	BENV_T1	2	15	13	0.3	0.67	0.37	-0.73	-0.74	1	1	0	600	600	0
4/4/2024 21:38	60701	BREC_T1	0	0	0	0	0	0	-0.51	-0.53	1	1	0	600	600	0
4/4/2024 21:38	52401	GRPA_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
4/4/2024 21:38	57401	SPAN_T1	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
4/4/2024 21:38	52402	GRPA_T2	4	5	1	1.23	1.38	0.15	0	0	0	0	0	0	0	0
4/4/2024 21:38	52006	LING_T2	2	2	0	0.6	0.85	0.25	0	0	0	0	0	0	0	0
4/4/2024 21:38	52004	LING_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
4/4/2024 21:38	60101	COCA_T1	0	0	0	0	0	0	0.55	0.5	0	0	0	0	0	0
4/4/2024 21:38	16301	ALPA_T1	1	2	1	0.3	0.35	0.05	-0.47	-0.46	0	0	0	0	0	0
4/4/2024 21:38	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
4/4/2024 21:38	52403	GRPA_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:38	57403	SPAN_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
4/4/2024 21:38	58003	WCAR_T1	1	1	0	1.1	1.5	0.4	-0.09	-0.1	1	1	0	600	600	0
4/4/2024 21:39	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:39	48301	ORWI_T1	2	2	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
4/4/2024 21:39	56802	BENV_T2	95	310	215	0.23	0.54	0.31	-1.37	-1.35	0	0	0	0	0	0
4/4/2024 21:39	66505	SMAN_T2	3	3	0	1.63	1.57	-0.06	0	0	0	0	0	0	0	0
4/4/2024 21:39	45003	LIME_2	2	2	0	2	1.9	-0.1	0	0	1	1	0	1200	1200	0
4/4/2024 21:39	53903	HALI_T2	1	2	1	0.1	1.45	1.35	0	0	0	0	0	0	0	0
4/4/2024 21:39	58402	MORO_T1	0	0	0	0	0	0	-0.37	-0.38	2	2	0	1500	1500	0
4/4/2024 21:39	54505	ENOL_T2	0	1	1	0	0.2	0.2	-1.2	-1.19	1	1	0	600	600	0
4/4/2024 21:39	53901	HALI_T2	1	1	0	0.7	0.9	0.2	-2.96	-2.96	0	0	0	0	0	0
4/4/2024 21:39	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
4/4/2024 21:39	66503	SMAN_T2	19	14	-5	0.15	0.16	0.01	0	0	0	0	0	0	0	0
4/4/2024 21:39	54503	ENOL_T2	0	0	0	0	0	0	-1.89	-1.88	1	1	0	600	600	0
4/4/2024 21:39	67204	TEHI_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
4/4/2024 21:39	60201	ATGL_T2	1	18	17	0.1	0.12	0.02	0.67	0.65	0	0	0	0	0	0
4/4/2024 21:39	66504	SMAN_T2	0	0	0	0	0	0	-1.32	-0.82	0	0	0	0	0	0
4/4/2024 21:39	64101	REFR_T1	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
4/4/2024 21:39	59101	WALK_T2	0	0	0	0	0	0	1.31	1.32	0	0	0	0	0	0
4/4/2024 21:39	55002	NEWP_T1	4	5	1	0.55	0.56	0.01	-0.27	-0.23	0	0	0	0	0	0
4/4/2024 21:39	45001	LIME_2	28	36	8	0.38	0.51	0.13	0	0	0	0	0	0	0	0
4/4/2024 21:39	42201	SHEN_T2	0	0	0	0	0	0	-0.28	-0.26	1	1	0	600	600	0
4/4/2024 21:39	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 21:39	56501	ROCK_T2	0	4	4	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/4/2024 21:39	57401	SPAN_T1	2	2	0	0.15	0.45	0.3	-0.83	-0.85	1	1	0	600	600	0
4/4/2024 21:40	53901	HALI_T2	1	1	0	0.7	0.9	0.2	-1.48	-1.48	0	0	0	0	0	0
4/4/2024 21:40	46206	DANV_T2	0	0	0	0	0	0	1.85	1.83	1	1	0	1200	1200	0
4/4/2024 21:40	65901	SAKR_T2	0	0	0	0	0	0	-1.5	-1.52	1	1	0	900	900	0
4/4/2024 21:40	45702	LIND_T2	1	1	0	0.1	0.3	0.2	-0.5	-0.51	0	0	0	0	0	0
4/4/2024 21:40	54505	ENOL_T2	0	1	1	0	0.2	0.2	-2.4	-2.38	2	2	0	1200	1200	0
4/4/2024 21:40	53903	HALI_T2	1	2	1	0.1	1.45	1.35	0	0	0	0	0	0	0	0
4/4/2024 21:40	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
4/4/2024 21:40	40504	CRES_T1	0	0	0	0	0	0	-0.48	-0.44	0	0	0	0	0	0
4/4/2024 21:40	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:40	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 21:40	46203	DANV_T2	31	110	79	0.26	0.53	0.27	0	0	0	0	0	0	0	0
4/4/2024 21:41	44302	BEAV_T2	38	52	14	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
4/4/2024 21:41	64203	KINZ_T1	35	65	30	0.17	0.24	0.07	0	0	0	0	0	0	0	0
4/4/2024 21:41	45402	WBLO_T2	0	1	1	0	0.3	0.3	-1.65	-1.63	0	0	0	0	0	0
4/4/2024 21:41	11804	FRAN_T1	0	0	0	0	0	0	0.52	0.6	0	0	0	0	0	0
4/4/2024 21:41	52403	GRPA_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:41	52404	GRPA_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/4/2024 21:41	51702	OBER_T1	2	2	0	2.55	2.95	0.4	-0.2	-0.2	0	0	0	0	0	0
4/4/2024 21:41	41802	GOCI_T2	15	19	4	0.25	0.34	0.09	0	0	0	0	0	0	0	0
4/4/2024 21:41	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:41	64801	MONE_T2	4	5	1	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
4/4/2024 21:41	57401	SPAN_T1	2	2	0	0.15	0.45	0.3	-0.83	-0.85	1	1	0	600	600	0
4/4/2024 21:41	64204	KINZ_T1	14	30	16	0.31	0.33	0.02	0	0	0	0	0	0	0	0
4/4/2024 21:41	55002	NEWP_T1	4	5	1	0.55	0.56	0.01	0	0	0	0	0	0	0	0
4/4/2024 21:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 21:41	54501	ENOL_T2	0	0	0	0	0	0	0.28	0.24	0	0	0	0	0	0
4/4/2024 21:41	54503	ENOL_T2	0	0	0	0	0	0	-1.89	-1.88	1	1	0	600	600	0
4/4/2024 21:41	64802	MONE_T2	19	24	5	0.12	0.13	0.01	0.23	0.21	0	0	0	0	0	0
4/4/2024 21:41	52202	DEVO_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
4/4/2024 21:41	55001	NEWP_T1	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
4/4/2024 21:41	42802	SEU_T1	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
4/4/2024 21:41	41801	GOCI_T2	6	69	63	0.12	0.19	0.07	0	0	0	0	0	0	0	0
4/4/2024 21:41	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 21:41	67401	WAKE_T2	98	120	22	0.24	0.29	0.05	-0.91	-0.88	0	0	0	0	0	0
4/4/2024 21:41	63401	HONY_T1	0	0	0	0	0	0	0.57	0.67	0	0	0	0	0	0
4/4/2024 21:41	59101	WALK_T2	0	0	0	0	0	0	1.31	1.32	0	0	0	0	0	0
4/4/2024 21:41	64202	KINZ_T1	11	15	4	0.29	0.39	0.1	0.65	0.62	0	0	0	0	0	0
4/4/2024 21:41	44301	BEAV_T2	1	1	0	0.1	0.3	0.2	-0.15	-0.24	2	2	0	1200	1200	0
4/4/2024 21:41	52402	GRPA_T2	4	5	1	1.23	1.38	0.15	-0.71	-0.69	0	0	0	0	0	0
4/4/2024 21:41	54505	ENOL_T2	0	1	1	0	0.2	0.2	-1.2	-1.19	1	1	0	600	600	0
4/4/2024 21:41	64201	KINZ_T1	6	6	0	0.5	0.72	0.22	0	0	0	0	0	0	0	0
4/4/2024 21:41	67502	WEWI_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
4/4/2024 21:42	50501	MECH_T1	4	4	0	1.25	1.73	0.48	0	0	0	0	0	0	0	0
4/4/2024 21:42	67203	TEHI_T1	0	0	0	0	0	0	2.15	2.22	1	1	0	600	600	0
4/4/2024 21:42	57304	MOAL_T2	1	1	0	0.1	0.4	0.3	-0.38	-0.29	0	0	0	0	0	0
4/4/2024 21:42	58003	WCAR_T1	1	1	0	1.1	1.5	0.4	-0.09	-0.1	1	1	0	600	600	0
4/4/2024 21:42	61801	EELI_T2	0	0	0	0	0	0	-0.84	-0.78	0	0	0	0	0	0
4/4/2024 21:42	66703	STRA_T1	7	7	0	0.47	0.73	0.26	-0.36	-0.35	0	0	0	0	0	0
4/4/2024 21:42	54505	ENOL_T2	0	1	1	0	0.2	0.2	-3.6	-3.58	3	3	0	1800	1800	0
4/4/2024 21:42	65003	NEFF_T2	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0	0
4/4/2024 21:42	46801	HEPB_T2	0	2	2	0	0.3	0.3	0.57	0.58	0	0	0	0	0	0
4/4/2024 21:42	67401	WAKE_T2	98	120	22	0.24	0.29	0.05	0	0	0	0	0	0	0	0
4/4/2024 21:42	56501	ROCK_T2	0	4	4	0	0.2	0.2	-0.02	-0.02	0	0	0	0	0	0
4/4/2024 21:42	50506	MECH_T1	0	0	0	0	0	0	-0.06	-0.14	0	0	0	0	0	0
4/4/2024 21:42	55002	NEWP_T1	4	5	1	0.55	0.56	0.01	-0.27	-0.23	0	0	0	0	0	0
4/4/2024 21:42	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:42	50105	HARR_T3	8	8	0	6.29	6.13	-0.16	0	0	0	0	0	0	0	0
4/4/2024 21:42	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
4/4/2024 21:42	57401	SPAN_T1	2	2	0	0.15	0.45	0.3	-1.66	-1.71	2	2	0	1200	1200	0
4/4/2024 21:42	67605	WARW_T1	4	5	1	0.15	0.18	0.03	-0.78	-0.81	0	0	0	0	0	0
4/4/2024 21:42	65001	NEFF_T2	193	231	38	0.22	0.32	0.1	-1	-0.98	1	1	0	1200	1200	0
4/4/2024 21:42	54501	ENOL_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
4/4/2024 21:42	50102	HARR_T3	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/4/2024 21:42	54503	ENOL_T2	0	0	0	0	0	0	-1.89	-1.88	1	1	0	600	600	0
4/4/2024 21:42	67201	TEHI_T1	8	0	-8	0.18	0	-0.18	0	0	0	0	0	0	0	0
4/4/2024 21:42	50103	HARR_T3	0	2	2	0	0.2	0.2	0.16	0.22	0	0	0	0	0	0
4/4/2024 21:42	56802	BENV_T2	95	310	215	0.23	0.54	0.31	-1.37	-1.35	0	0	0	0	0	0
4/4/2024 21:42	40101	HUNT_T2	9	19	10	0.7	0.54	-0.16	-0.32	-0.36	0	0	0	0	0	0
4/4/2024 21:42	50201	HARR_T3	2	2	0	3.65	4.6	0.95	0	0	0	0	0	0	0	0
4/4/2024 21:42	50202	HARR_T3	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/4/2024 21:42	58001	WCAR_T1	4	4	0	0.5	0.93	0.43	0	0	0	0	0	0	0	0
4/4/2024 21:42	40505	CRES_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
4/4/2024 21:42	57303	MOAL_T2	1	1	0	7.5	6.8	-0.7	0	0	0	0	0	0	0	0
4/4/2024 21:42	50502	MECH_T1	1	1	0	2.5	2.7	0.2	0	0	0	0	0	0	0	0
4/4/2024 21:43	40201	BEGA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/4/2024 21:43	56501	ROCK_T2	0	4	4	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
4/4/2024 21:43	57403	SPAN_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
4/4/2024 21:43	50103	HARR_T3	0	2	2	0	0.2	0.2	0.16	0.22	0	0	0	0	0	0
4/4/2024 21:43	44302	BEAV_T2	38	52	14	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
4/4/2024 21:43	58402	MORO_T1	0	0	0	0	0	0	-0.37	-0.38	2	2	0	1500	1500	0
4/4/2024 21:43	55002	NEWP_T1	4	5	1	0.55	0.56	0.01	-0.27	-0.23	0	0	0	0	0	0
4/4/2024 21:43	53903	HALI_T2	1	2	1	0.1	1.45	1.35	-0.14	-0.14	0	0	0	0	0	0
4/4/2024 21:43	44301	BEAV_T2	1	1	0	0.1	0.3	0.2	-0.08	-0.12	1	1	0	600	600	0
4/4/2024 21:43	52402	GRPA_T2	4	5	1	1.23	1.38	0.15	0	0	0	0	0	0	0	0
4/4/2024 21:43	50201	HARR_T3	2	2	0	3.65	4.6	0.95	0	0	0	0	0	0	0	0
4/4/2024 21:43	50501	MECH_T1	4	4	0	1.25	1.73	0.48	0	0	0	0	0	0	0	0
4/4/2024 21:43	57401	SPAN_T1	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
4/4/2024 21:43	50502	MECH_T1	1	1	0	2.5	2.7	0.2	0	0	0	0	0	0	0	0
4/4/2024 21:43	67001	STHI_T2	6	165	159	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
4/4/2024 21:43	50202	HARR_T3	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/4/2024 21:43	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
4/4/2024 21:43	50506	MECH_T1	0	0	0	0	0	0	-0.06	-0.14	0	0	0	0	0	0
4/4/2024 21:43	67002	STHI_T2	1	24	23	0.1	0.12	0.02	0.54	0.53	0	0	0	0	0	0
4/4/2024 21:43	50102	HARR_T3	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/4/2024 21:43	50105	HARR_T3	8	8	0	6.29	6.13	-0.16	0	0	0	0	0	0	0	0
4/4/2024 21:43	53901	HALI_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/4/2024 21:43	52403	GRPA_T2	0	3	3	0	0.1	0.1	0	-0.02	0	0	0	0	0	0
4/4/2024 21:43	52404	GRPA_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/4/2024 21:43	52401	GRPA_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
4/4/2024 21:44	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/2024 21:44	51702	OBER_T1	2	2	0	2.55	2.95	0.4	-0.2	-0.2	0	0	0	0	0	0
4/4/2024 21:44	45003	LIME_2	2	2	0	2	1.9	-0.1	0	0	1	1	0	1200	1200	0
4/4/2024 21:44	45001	LIME_2	28	36	8	0.38	0.51	0.13	0	0	0	0	0	0	0	0
4/4/2024 21:44	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:44	56501	ROCK_T2	0	4	4	0	0.2	0.2	-0.03	-0.03	0	0	0	0	0	0
4/4/2024 21:44	46203	DANV_T2	31	110	79	0.26	0.53	0.27	0	0	0	0	0	0	0	0
4/4/2024 21:44	64303	LINC_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
4/4/2024 21:44	46206	DANV_T2	0	0	0	0	0	0	1.85	1.83	1	1	0	1200	1200	0
4/4/2024 21:44	60101	COCA_T1	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
4/4/2024 21:44	57403	SPAN_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
4/4/2024 21:44	54505	ENOL_T2	0	1	1	0	0.2	0.2	-1.2	-1.19	1	1	0	600	600	0
4/4/2024 21:44	40201	BEGA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/4/2024 21:44	45602	WOOL_T1	1	1	0	0.1	0.1	0	0.43	0.46	0	0	0	0	0	0
4/4/2024 21:44	57401	SPAN_T1	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
4/4/2024 21:45	43104	SMIL_T2	0	0	0	0	0	0	-0.78	-0.79	1	1	0	300	300	0
4/4/2024 21:45	44301	BEAV_T2	1	1	0	0.3	0.1	-0.2	-0.08	-0.12	1	1	0	600	600	0
4/4/2024 21:45	41902	REED_T1	0	0	0	0	0	0	0.96	1.01	0	0	0	0	0	0
4/4/2024 21:45	56504	ROCK_T2	0	0	0	0	0	0	83.96	0	0	0	0	0	0	0
4/4/2024 21:45	54505	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/4/2024 21:45	54502	ENOL_T2	0	1	1	0	0.1	0.1	-1.14	-1.14	1	1	0	600	600	0
4/4/2024 21:45	44302	BEAV_T2	50	19	-31	0.22	0.15	-0.07	0	0	0	0	0	0	0	0
4/4/2024 21:45	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-1.02	1	1	0	600	600	0
4/4/2024 21:45	56501	ROCK_T2	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
4/4/2024 21:45	43103	SMIL_T2	12	15	3	0.38	0.44	0.06	0	0	0	0	0	0	0	0
4/4/2024 21:45	67002	STHI_T2	6	23	17	0.12	0.12	0	0.54	0.53	0	0	0	0	0	0
4/4/2024 21:45	43105	SMIL_T2	3	18	15	0.13	0.19	0.06	0	0	0	0	0	0	0	0
4/4/2024 21:45	58401	MORO_T1	0	0	0	0	0	0	-1.18	-1.18	1	1	0	600	600	0
4/4/2024 21:45	67001	STHI_T2	20	165	145	0.12	0.12	0	0	0	0	0	0	0	0	0
4/4/2024 21:45	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/4/2024 21:45	43102	SMIL_T2	6	8	2	0.62	0.8	0.18	0	0	0	0	0	0	0	0
4/4/2024 21:45	43108	SMIL_T2	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
4/4/2024 21:45	67901	WNHO_T2	142	148	6	0.4	0.41	0.01	-0.46	-0.44	0	0	0	0	0	0
4/4/2024 21:45	46203	DANV_T2	48	115	67	0.26	0.53	0.27	-0.99	-1.02	0	0	0	0	0	0
4/4/2024 21:46	52403	GRPA_T2	0	3	3	0	0.1	0.1	0	-0.02	0	0	0	0	0	0
4/4/2024 21:46	41902	REED_T1	0	0	0	0	0	0	0.96	1.01	0	0	0	0	0	0
4/4/2024 21:46	52402	GRPA_T2	4	5	1	1.5	1.26	-0.24	0	0	0	0	0	0	0	0
4/4/2024 21:46	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/4/2024 21:46	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:46	54505	ENOL_T2	0	1	1	0	0.5	0.5	-1.2	-1.19	1	1	0	600	600	0
4/4/2024 21:46	57401	SPAN_T1	2	2	0	0.35	0.45	0.1	-0.83	-0.85	1	1	0	600	600	0
4/4/2024 21:46	52404	GRPA_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:46	56601	HAMP_T1	0	0	0	0	0	0	-2.03	-1.94	0	0	0	0	0	0
4/4/2024 21:47	59101	WALK_T2	0	0	0	0	0	0	1.31	1.32	0	0	0	0	0	0
4/4/2024 21:47	53901	HALI_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/4/2024 21:47	57401	SPAN_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:47	57403	SPAN_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
4/4/2024 21:47	53903	HALI_T2	2	2	0	1.2	1.45	0.25	-0.14	-0.14	0	0	0	0	0	0
4/4/2024 21:47	46203	DANV_T2	48	115	67	0.26	0.53	0.27	-0.99	-1.02	0	0	0	0	0	0
4/4/2024 21:47	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
4/4/2024 21:48	52404	GRPA_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:48	54503	ENOL_T2	0	0	0	0	0	0	-1.89	-1.88	1	1	0	600	600	0
4/4/2024 21:48	52402	GRPA_T2	4	5	1	1.5	1.26	-0.24	0	0	0	0	0	0	0	0
4/4/2024 21:48	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:48	42201	SHEN_T2	0	0	0	0	0	0	-0.28	-0.26	1	1	0	600	600	0
4/4/2024 21:48	54505	ENOL_T2	0	1	1	0	0.5	0.5	-1.2	-1.19	1	1	0	600	600	0
4/4/2024 21:48	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/4/2024 21:48	56801	BENV_T1	11	15	4	0.66	0.67	0.01	-0.73	-0.74	1	1	0	600	600	0
4/4/2024 21:48	56803	BENV_T1	3	3	0	0.3	0.47	0.17	0	0	0	0	0	0	0	0
4/4/2024 21:48	52403	GRPA_T2	0	3	3	0	0.1	0.1	0	-0.02	0	0	0	0	0	0
4/4/2024 21:48	41902	REED_T1	0	0	0	0	0	0	0.96	1.01	0	0	0	0	0	0
4/4/2024 21:49	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-1.02	1	1	0	600	600	0
4/4/2024 21:49	52402	GRPA_T2	4	5	1	1.5	1.26	-0.24	-0.71	-0.69	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/4/2024 21:49	54505	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/4/2024 21:49	52403	GRPA_T2	0	3	3	0	0.1	0.1	0	-0.02	0	0	0	0	0	0
4/4/2024 21:49	52404	GRPA_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:49	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/4/2024 21:52	45402	WBLO_T2	1	5	4	0.1	0.16	0.06	-0.83	-0.82	0	0	0	0	0	0
4/4/2024 21:53	64101	REFR_T1	0	0	0	0	0	0	-0.83	-0.89	0	0	0	0	0	0
4/4/2024 21:58	60701	BREC_T1	0	0	0	0	0	0	-0.53	0.05	0	0	0	0	0	0
4/4/2024 23:07	67001	STHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/4/2024 23:07	67002	STHI_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
4/5/2024 3:59	46302	ROHR_T1	2	4	2	2.05	1.15	-0.9	0.18	0.19	0	0	0	0	0	0
4/5/2024 5:05	28604	BLYT_T2	0	0	0	0	0	0	-1.48	-1.47	0	0	0	0	0	0
4/5/2024 7:53	26002	WDAM_T1	2	3	1	1.9	1.55	-0.35	0	0	0	0	0	0	0	0
4/5/2024 7:53	26001	WDAM_T1	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
4/5/2024 7:56	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 7:56	45501	DERR_T2	0	0	0	0	0	0	0.6	0.54	2	2	0	1800	1800	0
4/5/2024 8:03	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 8:04	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 8:06	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 8:08	26002	WDAM_T1	2	3	1	1.55	1.73	0.18	0	0	0	0	0	0	0	0
4/5/2024 8:08	26001	WDAM_T1	0	0	0	0	0	0	-0.66	-0.72	0	0	0	0	0	0
4/5/2024 8:10	56802	BENV_T2	0	5	5	0	0.26	0.26	-2.7	-2.72	0	0	0	0	0	0
4/5/2024 8:12	24902	WHHA_T1	2	4	2	0.55	0.6	0.05	0	0	0	0	0	0	0	0
4/5/2024 8:30	64702	LITI_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
4/5/2024 8:32	60201	ATGL_T2	106	132	26	0.6	0.59	-0.01	0.61	0.62	0	0	0	0	0	0
4/5/2024 8:32	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 8:33	64702	LITI_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
4/5/2024 8:36	59101	WALK_T2	0	0	0	0	0	0	1.52	1.52	0	0	0	0	0	0
4/5/2024 8:40	26001	WDAM_T1	0	0	0	0	0	0	-0.64	-0.7	0	0	0	0	0	0
4/5/2024 8:40	26002	WDAM_T1	3	2	-1	1.83	1.85	0.02	0	0	0	0	0	0	0	0
4/5/2024 8:55	46203	DANV_T2	0	9	9	0	0.19	0.19	-0.89	-0.92	0	0	0	0	0	0
4/5/2024 8:57	10805	CHHI_T2	1	1	0	8.5	8.5	0	-0.69	-0.64	1	1	0	600	600	0
4/5/2024 9:00	64702	LITI_T2	0	0	0	0	0	0	-0.71	-0.77	0	0	0	0	0	0
4/5/2024 9:01	46203	DANV_T2	8	5	-3	0.19	0.16	-0.03	-0.89	-0.92	0	0	0	0	0	0
4/5/2024 9:03	67402	WAKE_T2	0	0	0	0	0	0	0.87	0.9	0	0	0	0	0	0
4/5/2024 9:04	67204	TEHI_T2	0	0	0	0	0	0	0.21	-0.02	0	0	0	0	0	0
4/5/2024 9:05	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 9:07	56802	BENV_T2	22	3	-19	0.2	0.43	0.23	-1.37	-1.35	0	0	0	0	0	0
4/5/2024 9:07	67204	TEHI_T2	0	0	0	0	0	0	0.21	-0.02	0	0	0	0	0	0
4/5/2024 9:09	56802	BENV_T2	22	3	-19	0.2	0.43	0.23	-1.35	-1.35	0	0	0	0	0	0
4/5/2024 9:11	46203	DANV_T2	8	5	-3	0.19	0.16	-0.03	-0.92	-0.9	0	0	0	0	0	0
4/5/2024 9:12	46203	DANV_T2	8	5	-3	0.19	0.16	-0.03	-0.92	-0.9	0	0	0	0	0	0
4/5/2024 9:12	56802	BENV_T2	22	3	-19	0.2	0.43	0.23	-2.7	-2.7	0	0	0	0	0	0
4/5/2024 9:14	25402	LAHA_T2	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
4/5/2024 9:20	67204	TEHI_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
4/5/2024 9:23	10805	CHHI_T2	1	9	8	8.8	1.96	-6.84	-0.47	-0.45	1	1	0	600	600	0
4/5/2024 9:23	67204	TEHI_T2	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
4/5/2024 9:23	10801	CHHI_T1	0	0	0	0	0	0	-1.26	-1.34	2	2	0	1500	1500	0
4/5/2024 9:27	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 9:27	52402	GRPA_T2	1	4	3	3.7	1.18	-2.52	-1	-0.99	0	0	0	0	0	0
4/5/2024 9:27	52403	GRPA_T2	1	3	2	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
4/5/2024 9:29	52402	GRPA_T2	1	4	3	3.7	1.18	-2.52	-1	-0.99	0	0	0	0	0	0
4/5/2024 9:29	52403	GRPA_T2	1	3	2	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
4/5/2024 9:29	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 9:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 9:31	24902	WHHA_T1	3	154	151	1.13	0.51	-0.62	0	0	0	0	0	0	0	0
4/5/2024 9:32	59301	MCAL_T1	2	2	0	0.2	0.5	0.3	-1.54	-1.53	1	1	0	600	600	0
4/5/2024 9:33	56501	ROCK_T2	3	6	3	0.13	0.2	0.07	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 9:34	43202	MVIL_T2	1	2	1	0.2	0.25	0.05	-0.52	-0.58	0	0	0	0	0	0
4/5/2024 9:34	64101	REFR_T1	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
4/5/2024 9:35	17002	RIRO_T2	6	6	0	0.23	0.23	0	0.67	0.68	0	0	0	0	0	0
4/5/2024 9:35	67402	WAKE_T2	0	0	0	0	0	0	1.1	1.09	0	0	0	0	0	0
4/5/2024 9:35	56501	ROCK_T2	3	6	3	0.13	0.2	0.07	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 9:36	64101	REFR_T1	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
4/5/2024 9:37	56501	ROCK_T2	3	6	3	0.13	0.2	0.07	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 9:38	59101	WALK_T2	0	0	0	0	0	0	1.56	1.36	0	0	0	0	0	0
4/5/2024 9:38	56802	BENV_T2	3	48	45	0.33	0.18	-0.15	-2.66	-2.7	0	0	0	0	0	0
4/5/2024 9:39	56802	BENV_T2	3	48	45	0.33	0.18	-0.15	-4	-4.05	0	0	0	0	0	0
4/5/2024 9:40	56501	ROCK_T2	3	6	3	0.13	0.2	0.07	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 9:40	56802	BENV_T2	3	48	45	0.33	0.18	-0.15	-2.66	-2.7	0	0	0	0	0	0
4/5/2024 9:46	54205	PENN_T1	0	12	12	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 9:46	54201	PENN_T1	103	175	72	0.3	0.45	0.15	-1.24	-1.22	0	0	0	0	0	0
4/5/2024 9:46	54203	PENN_T1	18	61	43	0.78	0.41	-0.37	0	0	0	0	0	0	0	0
4/5/2024 9:46	43202	MVIL_T2	2	1	-1	0.25	0.2	-0.05	-0.58	-0.55	0	0	0	0	0	0
4/5/2024 9:48	67605	WARW_T1	6	7	1	0.22	0.24	0.02	-0.84	-0.78	0	0	0	0	0	0
4/5/2024 9:49	41901	REED_T1	7	6	-1	0.23	0.23	0	0	0	0	0	0	0	0	0
4/5/2024 9:49	41902	REED_T1	0	0	0	0	0	0	1.1	1.16	0	0	0	0	0	0
4/5/2024 9:50	46302	ROHR_T1	4	4	0	1.6	1.55	-0.05	0.22	0.2	0	0	0	0	0	0
4/5/2024 9:50	41901	REED_T1	7	6	-1	0.23	0.23	0	0	0	0	0	0	0	0	0
4/5/2024 9:50	46301	ROHR_T1	7	2	-5	0.21	0.15	-0.06	0	0	0	0	0	0	0	0
4/5/2024 9:50	41902	REED_T1	0	0	0	0	0	0	2.21	2.32	0	0	0	0	0	0
4/5/2024 9:51	46302	ROHR_T1	4	4	0	1.6	1.55	-0.05	0.22	0.2	0	0	0	0	0	0
4/5/2024 9:51	46301	ROHR_T1	7	2	-5	0.21	0.15	-0.06	0	0	0	0	0	0	0	0
4/5/2024 9:54	10801	CHHI_T1	0	0	0	0	0	0	-1.3	-1.43	2	2	0	1500	1500	0
4/5/2024 9:55	10805	CHHI_T2	5	2	-3	1.96	9	7.04	-0.42	-0.43	1	1	0	600	600	0
4/5/2024 9:57	40101	HUNT_T2	0	8	8	0	0.25	0.25	-0.51	-0.52	0	0	0	0	0	0
4/5/2024 9:58	47001	HUGH_T2	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
4/5/2024 9:58	47002	HUGH_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/5/2024 10:00	47002	HUGH_T2	2	3	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/5/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
4/5/2024 10:00	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 10:00	57403	SPAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/5/2024 10:00	67203	TEHI_T1	0	0	0	0	0	0	2.62	2.58	2	2	0	1200	1200	0
4/5/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
4/5/2024 10:00	57304	MOAL_T2	1	0	-1	0.5	0	-0.5	-0.64	-0.82	0	0	0	0	0	0
4/5/2024 10:00	57401	SPAN_T1	2	2	0	0.35	0.25	-0.1	-2.18	-2.21	2	2	0	1200	1200	0
4/5/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	2.24	2.19	0	0	0	0	0	0
4/5/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
4/5/2024 10:00	56803	BENV_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
4/5/2024 10:00	67204	TEHI_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
4/5/2024 10:00	67002	STHI_T2	0	5	5	0	0.18	0.18	0.57	0.63	0	0	0	0	0	0
4/5/2024 10:00	12502	MITR_T2	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
4/5/2024 10:00	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 10:00	63801	HEMP_T1	0	3	3	0	0.2	0.2	0.34	0.36	0	0	0	0	0	0
4/5/2024 10:00	58803	COCO_T1	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
4/5/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
4/5/2024 10:00	45602	WOOL_T1	3	7	4	0.37	0.5	0.13	1.2	1.13	0	0	0	0	0	0
4/5/2024 10:00	63804	HEMP_T1	1	1	0	6.2	6.4	0.2	0	0	0	0	0	0	0	0
4/5/2024 10:00	43201	MVIL_T2	0	0	0	0	0	0	-0.24	-0.33	0	0	0	0	0	0
4/5/2024 10:00	56801	BENV_T1	16	16	0	1.18	1.29	0.11	-0.63	-0.67	1	1	0	600	600	0
4/5/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	0.44	0.48	2	2	0	1800	1800	0
4/5/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	-0.84	-0.86	0	0	0	0	0	0
4/5/2024 10:00	53903	HALI_T2	2	2	0	1.1	1	-0.1	-0.13	-0.14	0	0	0	0	0	0
4/5/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
4/5/2024 10:00	67605	WARW_T1	7	4	-3	0.24	0.2	-0.04	-1.56	-1.54	0	0	0	0	0	0
4/5/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.59	-0.61	1	1	0	1200	1200	0
4/5/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	-0.28	-0.26	1	1	0	600	600	0
4/5/2024 10:00	63803	HEMP_T1	0	22	22	0	0.2	0.2	0	0	0	0	0	0	0	0
4/5/2024 10:00	57303	MOAL_T2	1	1	0	6.9	7.2	0.3	0	0	0	0	0	0	0	0
4/5/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	-0.3	-0.32	1	1	0	600	600	0
4/5/2024 10:00	65702	RVIL_T2	0	0	0	0	0	0	-1.03	-1.02	1	1	0	600	600	0
4/5/2024 10:00	40101	HUNT_T2	8	3	-5	0.3	0.2	-0.1	-1.52	-1.56	0	0	0	0	0	0
4/5/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.87	-0.87	3	3	0	2400	2400	0
4/5/2024 10:00	43202	MVIL_T2	0	10	10	0	0.26	0.26	0	0	0	0	0	0	0	0
4/5/2024 10:00	12505	MITR_T2	0	1	1	0	0	0	0.5	0.52	0	0	0	0	0	0
4/5/2024 10:00	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
4/5/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
4/5/2024 10:00	42301	MOWR_T2	1	1	0	5.9	6.3	0.4	0	0	0	0	0	0	0	0
4/5/2024 10:00	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/5/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.46	0.3	0	0	0	0	0	0
4/5/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.17	-0.11	0	0	0	0	0	0
4/5/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	-0.01	-0.21	2	2	0	1200	1200	0
4/5/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
4/5/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.28	-0.32	1	1	0	600	600	0
4/5/2024 10:00	67001	STHI_T2	3	4	1	0.23	0.25	0.02	0	0	0	0	0	0	0	0
4/5/2024 10:00	53902	HALI_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
4/5/2024 10:00	41901	REED_T1	6	9	3	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
4/5/2024 10:00	55002	NEWP_T1	6	6	0	1.32	1.12	-0.2	-0.54	-0.57	0	0	0	0	0	0
4/5/2024 10:00	47001	HUGH_T2	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
4/5/2024 10:00	10801	CHHI_T1	0	0	0	0	0	0	2.59	2.87	4	4	0	3000	3000	0
4/5/2024 10:00	41902	REED_T1	0	0	0	0	0	0	3.48	3.62	0	0	0	0	0	0
4/5/2024 10:00	56501	ROCK_T2	3	8	5	0.27	0.28	0.01	-0.02	-0.02	0	0	0	0	0	0
4/5/2024 10:00	48302	ORWI_T2	2	2	0	0.5	0.65	0.15	0.08	0.06	0	0	0	0	0	0
4/5/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.76	0.77	0	0	0	0	0	0
4/5/2024 10:04	67201	TEHI_T1	0	0	0	0	0	0	0.43	0.09	1	1	0	600	600	0
4/5/2024 10:06	56802	BENV_T2	15	111	96	0.21	0.22	0.01	-1.35	-1.4	0	0	0	0	0	0
4/5/2024 10:06	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
4/5/2024 10:06	29402	BELT_T1	1	1	0	5.9	5.6	-0.3	0	0	0	0	0	0	0	0
4/5/2024 10:06	57401	SPAN_T1	2	2	0	0.35	0.25	-0.1	-1.09	-1.11	1	1	0	600	600	0
4/5/2024 10:06	57403	SPAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/5/2024 10:07	40101	HUNT_T2	8	3	-5	0.3	0.2	-0.1	-0.51	-0.52	0	0	0	0	0	0
4/5/2024 10:07	24105	EHAZ_T1	4	4	0	5.4	5.45	0.05	-1.91	-1.92	1	1	0	1200	1200	0
4/5/2024 10:07	64101	REFR_T1	0	0	0	0	0	0	-0.84	-0.86	0	0	0	0	0	0
4/5/2024 10:07	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 10:07	64902	MILL_T2	0	0	0	0	0	0	-0.73	-0.72	1	1	0	900	900	0
4/5/2024 10:07	57101	SPHI_T2	6	0	-6	0.48	0	-0.48	0	0	0	0	0	0	0	0
4/5/2024 10:07	39601	LNFD_T1	4	0	-4	0.7	0	-0.7	0	0	1	1	0	900	900	0
4/5/2024 10:07	57106	SPHI_T2	3	3	0	2.1	1.53	-0.57	0	0	0	0	0	0	0	0
4/5/2024 10:07	46206	DANV_T2	0	0	0	0	0	0	0.93	0.92	1	1	0	1200	1200	0
4/5/2024 10:07	40902	JESH_T1	0	1	1	0	0.2	0.2	-0.45	-0.42	0	0	0	0	0	0
4/5/2024 10:07	57104	SPHI_T2	0	1	1	0	0	0	-1.06	-1.06	0	0	0	0	0	0
4/5/2024 10:07	56802	BENV_T2	15	111	96	0.21	0.22	0.01	-1.35	-1.4	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/5/2024 10:07	24102	EHAZ_T1	1	4	3	1.7	0.2	-1.5	0	0	0	0	0	0	0	0
4/5/2024 10:07	46203	DANV_T2	0	16	16	0	0.23	0.23	0	0	0	0	0	0	0	0
4/5/2024 10:07	67204	TEHI_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
4/5/2024 10:07	58003	WCAR_T1	0	1	1	0	0.2	0.2	0	0	1	1	0	600	600	0
4/5/2024 10:08	20401	ASHF_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/5/2024 10:08	42903	MIDD_T2	2	2	0	0.4	1	0.6	0.35	0.39	0	0	0	0	0	0
4/5/2024 10:08	25603	ARRO_T1	0	0	0	0	0	0	-0.15	-0.13	0	0	0	0	0	0
4/5/2024 10:08	20403	ASHF_T2	0	0	0	0	0	0	1.12	0.7	0	0	0	0	0	0
4/5/2024 10:08	46203	DANV_T2	0	16	16	0	0.23	0.23	-0.88	-0.91	0	0	0	0	0	0
4/5/2024 10:08	42902	MIDD_T2	1	2	1	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
4/5/2024 10:09	56802	BENV_T2	15	111	96	0.21	0.22	0.01	-1.4	-1.34	0	0	0	0	0	0
4/5/2024 10:10	10805	CHHI_T2	1	2	1	9.1	8.9	-0.2	-0.43	-0.6	1	1	0	600	600	0
4/5/2024 10:10	46203	DANV_T2	0	16	16	0	0.23	0.23	-0.88	-0.91	0	0	0	0	0	0
4/5/2024 10:10	56802	BENV_T2	15	111	96	0.21	0.22	0.01	-4.2	-4.02	0	0	0	0	0	0
4/5/2024 10:11	45501	DERR_T2	0	0	0	0	0	0	0.48	0.41	2	2	0	1800	1800	0
4/5/2024 10:11	52402	GRPA_T2	3	2	-1	1.2	1.95	0.75	0	0	0	0	0	0	0	0
4/5/2024 10:11	52403	GRPA_T2	0	2	2	0	0.1	0.1	0.16	0.08	0	0	0	0	0	0
4/5/2024 10:11	41801	GOCI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/5/2024 10:11	56802	BENV_T2	15	111	96	0.21	0.22	0.01	-9.8	-9.39	0	0	0	0	0	0
4/5/2024 10:11	52401	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/5/2024 10:12	41801	GOCI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/5/2024 10:12	57401	SPAN_T1	2	2	0	0.35	0.25	-0.1	-1.11	-0.93	1	1	0	600	600	0
4/5/2024 10:12	24902	WHHA_T1	154	153	-1	0.51	0.49	-0.02	0	0	0	0	0	0	0	0
4/5/2024 10:12	57403	SPAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/5/2024 10:13	64702	LITI_T2	0	0	0	0	0	0	-0.45	-0.66	0	0	0	0	0	0
4/5/2024 10:13	11805	FRAN_T1	1	3	2	0.2	0.33	0.13	-1.25	-1.35	1	1	0	1200	1200	0
4/5/2024 10:13	11804	FRAN_T1	1	1	0	0.6	0.6	0	1.14	1.11	0	0	0	0	0	0
4/5/2024 10:14	52401	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/5/2024 10:14	52403	GRPA_T2	0	2	2	0	0.1	0.1	0.16	0.08	0	0	0	0	0	0
4/5/2024 10:14	52402	GRPA_T2	3	2	-1	1.2	1.95	0.75	-0.84	-0.84	0	0	0	0	0	0
4/5/2024 10:15	64702	LITI_T2	0	0	0	0	0	0	-0.45	-0.66	0	0	0	0	0	0
4/5/2024 10:15	10801	CHHI_T1	0	0	0	0	0	0	-1.43	-1.45	2	2	0	1500	1500	0
4/5/2024 10:16	52402	GRPA_T2	1	3	2	3.2	1.5	-1.7	-0.84	-0.84	0	0	0	0	0	0
4/5/2024 10:16	40101	HUNT_T2	2	27	25	0.35	0.27	-0.08	-0.52	-0.49	0	0	0	0	0	0
4/5/2024 10:16	52403	GRPA_T2	1	6	5	0.9	0.27	-0.63	0	0	0	0	0	0	0	0
4/5/2024 10:16	52401	GRPA_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/5/2024 10:16	43202	MVIL_T2	1	13	12	0.2	0.22	0.02	-0.57	-0.57	0	0	0	0	0	0
4/5/2024 10:17	17002	RIRO_T2	3	11	8	0.23	0.17	-0.06	0.64	0.62	0	0	0	0	0	0
4/5/2024 10:17	25404	LAHA_T2	1	0	-1	6.4	0	-6.4	0	0	0	0	0	0	0	0
4/5/2024 10:17	60201	ATGL_T2	128	37	-91	0.68	0.33	-0.35	0.58	0.59	0	0	0	0	0	0
4/5/2024 10:17	43202	MVIL_T2	1	13	12	0.2	0.22	0.02	-0.57	-0.57	0	0	0	0	0	0
4/5/2024 10:17	25402	LAHA_T2	0	0	0	0	0	0	-0.64	-0.61	0	0	0	0	0	0
4/5/2024 10:18	56501	ROCK_T2	8	8	0	0.19	0.25	0.06	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 10:18	64702	LITI_T2	0	0	0	0	0	0	-0.45	-0.66	0	0	0	0	0	0
4/5/2024 10:18	65901	SAKR_T2	1	1	0	8.5	8.8	0.3	-0.96	-1.03	1	1	0	900	900	0
4/5/2024 10:19	65001	NEFF_T2	0	0	0	0	0	0	-0.62	-0.26	1	1	0	1200	1200	0
4/5/2024 10:19	56501	ROCK_T2	8	8	0	0.19	0.25	0.06	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 10:20	57403	SPAN_T1	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
4/5/2024 10:20	57401	SPAN_T1	2	2	0	0.25	0.25	0	-1.11	-0.93	1	1	0	600	600	0
4/5/2024 10:20	67402	WAKE_T2	0	0	0	0	0	0	1.09	1.13	0	0	0	0	0	0
4/5/2024 10:21	66504	SMAN_T2	0	0	0	0	0	0	-0.78	-0.74	0	0	0	0	0	0
4/5/2024 10:21	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 10:21	57403	SPAN_T1	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
4/5/2024 10:21	57401	SPAN_T1	2	2	0	0.25	0.25	0	-1.11	-0.93	1	1	0	600	600	0
4/5/2024 10:22	65901	SAKR_T2	1	1	0	8.5	8.8	0.3	-0.96	-1.03	1	1	0	900	900	0
4/5/2024 10:22	56501	ROCK_T2	8	8	0	0.19	0.25	0.06	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 10:23	56501	ROCK_T2	8	8	0	0.19	0.25	0.06	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 10:24	67502	WEWI_T2	0	1	1	0	0.4	0.4	-2.44	-2.44	2	2	0	1800	1800	0
4/5/2024 10:26	65001	NEFF_T2	0	0	0	0	0	0	-0.26	-0.52	1	1	0	1200	1200	0
4/5/2024 10:28	40902	JESH_T1	0	1	1	0	0.2	0.2	-0.47	-0.42	0	0	0	0	0	0
4/5/2024 10:30	47802	MOCA_T2	0	0	0	0	0	0	-0.94	-0.93	0	0	0	0	0	0
4/5/2024 10:30	40101	HUNT_T2	3	31	28	0.27	0.62	0.35	-0.49	-0.51	0	0	0	0	0	0
4/5/2024 10:30	20601	GRWO_T2	1	2	1	0.3	0	-0.3	0.46	0.46	0	0	0	0	0	0
4/5/2024 10:31	64902	MILL_T2	0	0	0	0	0	0	-0.68	-0.71	1	1	0	900	900	0
4/5/2024 10:33	55002	NEWP_T1	6	6	0	1.12	1.22	0.1	-0.19	-0.18	0	0	0	0	0	0
4/5/2024 10:34	55002	NEWP_T1	6	6	0	1.12	1.22	0.1	-0.19	-0.18	0	0	0	0	0	0
4/5/2024 10:35	45402	WBLO_T2	1	1	0	0.6	0.2	-0.4	-0.66	-0.66	0	0	0	0	0	0
4/5/2024 10:36	60803	BUCK_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/5/2024 10:36	60801	BUCK_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
4/5/2024 10:38	16302	ALPA_T2	4	1	-3	0.35	0.1	-0.25	-0.6	-0.6	0	0	0	0	0	0
4/5/2024 10:38	56802	BENV_T2	111	140	29	0.22	0.26	0.04	-1.3	-1.35	0	0	0	0	0	0
4/5/2024 10:38	16402	MOPO_T1	2	1	-1	0.25	0	-0.25	0.21	0.2	0	0	0	0	0	0
4/5/2024 10:39	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 10:39	20403	ASHF_T2	0	2	2	0	0.15	0.15	0.34	0.18	0	0	0	0	0	0
4/5/2024 10:39	45402	WBLO_T2	1	1	0	0.6	0.2	-0.4	-0.66	-0.7	0	0	0	0	0	0
4/5/2024 10:39	26002	WDAM_T1	2	2	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
4/5/2024 10:39	26001	WDAM_T1	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
4/5/2024 10:40	20403	ASHF_T2	0	2	2	0	0.15	0.15	0.34	0.18	0	0	0	0	0	0
4/5/2024 10:41	16302	ALPA_T2	4	1	-3	0.35	0.1	-0.25	-1.19	-1.2	0	0	0	0	0	0
4/5/2024 10:41	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 10:42	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 10:42	16302	ALPA_T2	4	1	-3	0.35	0.1	-0.25	-0.6	-0.6	0	0	0	0	0	0
4/5/2024 10:43	46203	DANV_T2	15	52	37	0.23	0.27	0.04	-0.94	-0.97	0	0	0	0	0	0
4/5/2024 10:44	46801	HEPB_T2	2	2	0	0.25	0.45	0.2	0.66	0.63	0	0	0	0	0	0
4/5/2024 10:47	67401	WAKE_T2	0	0	0	0	0	0	-1.62	-1.64	0	0	0	0	0	0
4/5/2024 10:47	40101	HUNT_T2	27	17	-10	0.51	0.32	-0.19	-0.51	-0.54	0	0	0	0	0	0
4/5/2024 10:48	44601	SALE_T2	1	0	-1	0.2	0	-0.2	0.25	0.17	1	1	0	600	600	0
4/5/2024 10:48	67002	STHI_T2	0	5	5	0	0.12	0.12	0.61	0.6	0	0	0	0	0	0
4/5/2024 10:48	67001	STHI_T2	3	4	1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/5/2024 10:49	66703	STRA_T1	0	0	0	0	0	0	-0.02	-0.11	0	0	0	0	0	0
4/5/2024 10:50	57403	SPAN_T1	8	11	3	0.13	0.22	0.09	0.1	0.13	0	0	0	0	0	0
4/5/2024 10:50	67002	STHI_T2	0	5	5	0	0.12	0.12	0.61	0.6	0	0	0	0	0	0
4/5/2024 10:50	67001	STHI_T2	3	4	1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/5/2024 10:50	57401	SPAN_T1	2	2	0	0.15	0.55	0.4	0	0	0	0	0	0	0	0
4/5/2024 10:51	57401	SPAN_T1	2	2	0	0.15	0.55	0.4	0	0	0	0	0	0	0	0
4/5/2024 10:51	57403	SPAN_T1	8	11	3	0.13	0.22	0.09	0.1	0.13	0	0	0	0	0	0
4/5/2024 10:51	67002	STHI_T2	0	5	5	0	0.12	0.12	1.23	1.21	0	0	0	0	0	0
4/5/2024 10:51	67001	STHI_T2	3	4	1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/5/2024 10:51	59101	WALK_T2	0	0	0	0	0	0	1.4	1.54	0	0	0	0	0	0
4/5/2024 10:52	57401	SPAN_T1	2	2	0	0.15	0.55	0.4	0	0	0	0	0	0	0	0
4/5/2024 10:52	59101	WALK_T2	0	0	0	0	0	0	1.4	1.54	0	0	0	0	0	0
4/5/2024 10:52	44601	SALE_T2	1	0	-1	0.2	0	-0.2	0.25	0.17	1	1	0	600	600	0
4/5/2024 10:52	67002	STHI_T2	0	5	5	0	0.12	0.12	1.23	1.21	0	0	0	0	0	0
4/5/2024 10:52	57403	SPAN_T1	8	11	3	0.13	0.22	0.09	0.1	0.13	0	0	0	0	0	0
4/5/2024 10:52	67001	STHI_T2	3	4	1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/5/2024 10:53	57403	SPAN_T1	8	11	3	0.13	0.22	0.09	0.13	0.1	0	0	0	0	0	0
4/5/2024 10:53	57401	SPAN_T1	2	2	0	0.15	0.55	0.4	0	0	0	0	0	0	0	0
4/5/2024 10:54	16301	ALPA_T1	20	28	8	0.18	0.16	-0.02	-0.38	-0.36	0	0	0	0	0	0
4/5/2024 10:54	67002	STHI_T2	0	5	5	0	0.12	0.12	0.6	0.6	0	0	0	0	0	0
4/5/2024 10:54	67001	STHI_T2	3	4	1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/5/2024 10:55	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 10:55	56802	BENV_T2	126	130	4	0.26	0.24	-0.02	-2.7	-2.65	0	0	0	0	0	0
4/5/2024 10:55	60803	BUCK_T1	0	5	5	0	0.14	0.14	-0.53	-0.49	1	1	0	600	600	0
4/5/2024 10:56	16301	ALPA_T1	20	28	8	0.18	0.16	-0.02	-1.51	-1.44	0	0	0	0	0	0
4/5/2024 10:56	60803	BUCK_T1	0	5	5	0	0.14	0.14	-0.53	-0.49	1	1	0	600	600	0
4/5/2024 10:57	53902	HALI_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
4/5/2024 10:57	53903	HALI_T2	2	2	0	1.3	1.3	0	-0.14	-0.12	0	0	0	0	0	0
4/5/2024 10:57	53901	HALI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/5/2024 10:58	53902	HALI_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
4/5/2024 10:58	53901	HALI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/5/2024 10:58	53903	HALI_T2	2	2	0	1.3	1.3	0	-0.14	-0.12	0	0	0	0	0	0
4/5/2024 11:00	53901	HALI_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/5/2024 11:00	53902	HALI_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
4/5/2024 11:00	53903	HALI_T2	2	2	0	1.3	1.5	0.2	-0.14	-0.12	0	0	0	0	0	0
4/5/2024 11:01	59302	MCAL_T1	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
4/5/2024 11:01	40101	HUNT_T2	16	19	3	0.76	0.37	-0.39	-0.54	-0.51	0	0	0	0	0	0
4/5/2024 11:01	59301	MCAL_T1	2	2	0	0.2	0.5	0.3	-1.44	-1.31	1	1	0	600	600	0
4/5/2024 11:01	52501	PROG_T1	0	0	0	0	0	0	0.39	0.37	1	1	0	300	300	0
4/5/2024 11:02	53901	HALI_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/5/2024 11:02	53903	HALI_T2	2	2	0	1.3	1.5	0.2	-0.14	-0.12	0	0	0	0	0	0
4/5/2024 11:02	40101	HUNT_T2	16	19	3	0.76	0.37	-0.39	-0.54	-0.51	0	0	0	0	0	0
4/5/2024 11:02	53902	HALI_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
4/5/2024 11:03	67401	WAKE_T2	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
4/5/2024 11:04	67002	STHI_T2	2	6	4	0.15	0.12	-0.03	1.21	1.21	0	0	0	0	0	0
4/5/2024 11:04	56501	ROCK_T2	7	15	8	0.31	0.27	-0.04	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 11:04	64802	MONE_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
4/5/2024 11:04	67001	STHI_T2	4	4	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/5/2024 11:04	64801	MONE_T2	0	2	2	0	0.2	0.2	0.36	0.36	0	0	0	0	0	0
4/5/2024 11:05	26002	WDAM_T1	2	2	0	1.2	0.1	-1.1	0	0	0	0	0	0	0	0
4/5/2024 11:05	26001	WDAM_T1	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
4/5/2024 11:06	67001	STHI_T2	4	4	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/5/2024 11:06	67002	STHI_T2	2	6	4	0.15	0.12	-0.03	0.6	0.6	0	0	0	0	0	0
4/5/2024 11:06	42201	SHEN_T2	0	0	0	0	0	0	-0.27	-0.27	1	1	0	600	600	0
4/5/2024 11:06	45402	WBLO_T2	1	1	0	0.2	0.8	0.6	-0.7	-0.66	0	0	0	0	0	0
4/5/2024 11:07	67002	STHI_T2	2	6	4	0.15	0.12	-0.03	1.81	1.81	0	0	0	0	0	0
4/5/2024 11:07	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 11:07	45602	WOOL_T1	3	2	-1	0.43	0.55	0.12	1.2	1.22	0	0	0	0	0	0
4/5/2024 11:07	67001	STHI_T2	4	4	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/5/2024 11:08	67002	STHI_T2	2	6	4	0.15	0.12	-0.03	0.6	0.6	0	0	0	0	0	0
4/5/2024 11:08	67001	STHI_T2	4	4	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/5/2024 11:09	56501	ROCK_T2	7	15	8	0.31	0.27	-0.04	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 11:09	10705	CATA_T2	0	0	0	0	0	0	-0.85	-0.91	1	1	0	900	900	0
4/5/2024 11:09	45602	WOOL_T1	3	2	-1	0.43	0.55	0.12	0.61	0.59	0	0	0	0	0	0
4/5/2024 11:10	10705	CATA_T2	0	0	0	0	0	0	-0.85	-0.91	1	1	0	900	900	0
4/5/2024 11:10	67002	STHI_T2	2	6	4	0.15	0.12	-0.03	0.6	0.6	0	0	0	0	0	0
4/5/2024 11:10	67001	STHI_T2	4	4	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/5/2024 11:12	45602	WOOL_T1	3	2	-1	0.43	0.55	0.12	0.61	0.59	0	0	0	0	0	0
4/5/2024 11:13	53601	DALM_T2	1	1	0	0.7	0.1	-0.6	-0.05	-0.04	1	1	0	900	900	0
4/5/2024 11:13	45602	WOOL_T1	3	2	-1	0.43	0.55	0.12	0.61	0.59	0	0	0	0	0	0
4/5/2024 11:14	40101	HUNT_T2	16	19	3	0.76	0.37	-0.39	-0.51	-0.53	0	0	0	0	0	0
4/5/2024 11:15	64902	MILL_T2	0	0	0	0	0	0	-0.72	-0.75	1	1	0	900	900	0
4/5/2024 11:15	40101	HUNT_T2	6	20	14	0.47	0.88	0.41	-0.51	-0.53	0	0	0	0	0	0
4/5/2024 11:16	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/5/2024 11:16	55002	NEWP_T1	7	7	0	0.71	1	0.29	-0.17	-0.2	0	0	0	0	0	0
4/5/2024 11:18	46301	ROHR_T1	5	22	17	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/5/2024 11:18	46302	ROHR_T1	2	4	2	2.65	2.28	-0.37	0.22	0.23	0	0	0	0	0	0
4/5/2024 11:18	67401	WAKE_T2	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
4/5/2024 11:19	56501	ROCK_T2	11	14	3	0.3	0.26	-0.04	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 11:19	46301	ROHR_T1	5	22	17	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/5/2024 11:19	46302	ROHR_T1	2	4	2	2.65	2.28	-0.37	0.22	0.23	0	0	0	0	0	0
4/5/2024 11:20	56501	ROCK_T2	11	14	3	0.3	0.26	-0.04	-0.02	-0.02	0	0	0	0	0	0
4/5/2024 11:20	64902	MILL_T2	0	0	0	0	0	0	-0.72	-0.75	1	1	0	900	900	0
4/5/2024 11:20	59101	WALK_T2	0	0	0	0	0	0	1.5	1.21	0	0	0	0	0	0
4/5/2024 11:20	55002	NEWP_T1	7	7	0	0.71	1	0.29	-0.17	-0.2	0	0	0	0	0	0
4/5/2024 11:20	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/5/2024 11:20	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 11:21	54205	PENN_T1	0	20	20	0	0.11	0.11	0	0	0	0	0	0	0	0
4/5/2024 11:21	54201	PENN_T1	117	186	69	0.42	0.47	0.05	-2.39	-2.41	0	0	0	0	0	0
4/5/2024 11:21	56501	ROCK_T2	11	14	3	0.3	0.26	-0.04	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 11:21	54203	PENN_T1	21	89	68	1.22	0.35	-0.87	0.08	0.05	0	0	0	0	0	0
4/5/2024 11:22	67502	WEWI_T2	1	38	37	0.5	0.22	-0.28	-1.22	-1.18	1	1	0	900	900	0
4/5/2024 11:23	45602	WOOL_T1	2	4	2	0.55	0.23	-0.32	1.18	1.25	0	0	0	0	0	0
4/5/2024 11:23	54203	PENN_T1	21	89	68	1.22	0.35	-0.87	0.05	0.09	0	0	0	0	0	0
4/5/2024 11:23	54205	PENN_T1	0	20	20	0	0.11	0.11	0	0	0	0	0	0	0	0
4/5/2024 11:23	54201	PENN_T1	117	186	69	0.42	0.47	0.05	0	0	0	0	0	0	0	0
4/5/2024 11:23	67502	WEWI_T2	1	38	37	0.5	0.22	-0.28	-1.18	-1.19	1	1	0	900	900	0
4/5/2024 11:23	56501	ROCK_T2	11	14	3	0.3	0.26	-0.04	-0.02	-0.02	0	0	0	0	0	0
4/5/2024 11:24	54201	PENN_T1	117	186	69	0.42	0.47	0.05	0	0	0	0	0	0	0	0
4/5/2024 11:24	54205	PENN_T1	0	20	20	0	0.11	0.11	0	0	0	0	0	0	0	0
4/5/2024 11:24	54203	PENN_T1	21	89	68	1.22	0.35	-0.87	0.05	0.09	0	0	0	0	0	0
4/5/2024 11:25	56501	ROCK_T2	11	14	3	0.3	0.26	-0.04	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 11:27	63801	HEMP_T1	1	5	4	0.1	0.2	0.1	0.3	0.34	0	0	0	0	0	0
4/5/2024 11:27	63802	HEMP_T1	0	2	2	0	0.1	0.1	0.18	0.25	0	0	0	0	0	0
4/5/2024 11:27	61801	EELI_T2	0	0	0	0	0	0	-0.71	-0.56	0	0	0	0	0	0
4/5/2024 11:27	63804	HEMP_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
4/5/2024 11:27	63803	HEMP_T1	15	15	0	0.21	0.22	0.01	0	0	0	0	0	0	0	0
4/5/2024 11:28	63804	HEMP_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
4/5/2024 11:28	63801	HEMP_T1	1	5	4	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/5/2024 11:28	45602	WOOL_T1	2	4	2	0.55	0.23	-0.32	0.59	0.63	0	0	0	0	0	0
4/5/2024 11:28	63602	LETO_T1	0	1	1	0	0.1	0.1	-0.48	-0.46	0	0	0	0	0	0
4/5/2024 11:28	63802	HEMP_T1	0	2	2	0	0.1	0.1	0.18	0.25	0	0	0	0	0	0
4/5/2024 11:28	63803	HEMP_T1	15	15	0	0.21	0.22	0.01	0	0	0	0	0	0	0	0
4/5/2024 11:29	54501	ENOL_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
4/5/2024 11:29	40902	JESH_T1	0	4	4	0	0.38	0.38	-0.6	-0.56	0	0	0	0	0	0
4/5/2024 11:29	40101	HUNT_T2	6	20	14	0.47	0.88	0.41	-1.06	-1.08	0	0	0	0	0	0
4/5/2024 11:29	40903	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 11:29	54505	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/5/2024 11:29	45602	WOOL_T1	2	4	2	0.55	0.23	-0.32	0.59	0.63	0	0	0	0	0	0
4/5/2024 11:30	45702	LIND_T2	0	1	1	0	0.4	0.4	-0.44	-0.42	0	0	0	0	0	0
4/5/2024 11:31	51702	OBER_T1	2	2	0	3.45	3.65	0.2	-0.72	-0.73	1	1	0	600	600	0
4/5/2024 11:31	54701	NEBL_T1	6	2	-4	0.3	0.2	-0.1	0	0	1	1	0	600	600	0
4/5/2024 11:32	63803	HEMP_T1	12	12	0	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
4/5/2024 11:32	63801	HEMP_T1	2	5	3	0.35	0.18	-0.17	0.3	0.34	0	0	0	0	0	0
4/5/2024 11:32	63802	HEMP_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/5/2024 11:32	63804	HEMP_T1	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
4/5/2024 11:34	56501	ROCK_T2	13	9	-4	0.26	0.2	-0.06	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 11:34	54205	PENN_T1	19	55	36	0.11	0.12	0.01	0	0	0	0	0	0	0	0
4/5/2024 11:34	40902	JESH_T1	2	3	1	0.4	0.37	-0.03	-0.6	-0.56	0	0	0	0	0	0
4/5/2024 11:34	40903	JESH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/5/2024 11:34	58401	MORO_T1	0	0	0	0	0	0	-0.94	-0.88	1	1	0	600	600	0
4/5/2024 11:34	54203	PENN_T1	58	200	142	0.46	0.28	-0.18	0.05	0.09	0	0	0	0	0	0
4/5/2024 11:34	54201	PENN_T1	168	213	45	0.47	0.49	0.02	0	0	0	0	0	0	0	0
4/5/2024 11:35	51702	OBER_T1	2	2	0	3.45	3.65	0.2	-0.72	-0.73	1	1	0	600	600	0
4/5/2024 11:35	56501	ROCK_T2	13	9	-4	0.26	0.2	-0.06	-0.02	-0.02	0	0	0	0	0	0
4/5/2024 11:36	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/5/2024 11:36	56501	ROCK_T2	13	9	-4	0.26	0.2	-0.06	-0.02	-0.02	0	0	0	0	0	0
4/5/2024 11:36	54205	PENN_T1	19	55	36	0.11	0.12	0.01	0	0	0	0	0	0	0	0
4/5/2024 11:36	66703	STRA_T1	0	0	0	0	0	0	-0.13	-0.08	0	0	0	0	0	0
4/5/2024 11:36	66701	STRA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/5/2024 11:36	54203	PENN_T1	58	200	142	0.46	0.28	-0.18	0	0	0	0	0	0	0	0
4/5/2024 11:36	59101	WALK_T2	0	0	0	0	0	0	1.21	1.33	0	0	0	0	0	0
4/5/2024 11:36	54201	PENN_T1	168	213	45	0.47	0.49	0.02	-1.21	-1.23	0	0	0	0	0	0
4/5/2024 11:37	26001	WDAM_T1	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
4/5/2024 11:37	26002	WDAM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/5/2024 11:37	54203	PENN_T1	58	200	142	0.46	0.28	-0.18	0.05	0.09	0	0	0	0	0	0
4/5/2024 11:37	56501	ROCK_T2	13	9	-4	0.26	0.2	-0.06	-0.02	-0.02	0	0	0	0	0	0
4/5/2024 11:37	54205	PENN_T1	19	55	36	0.11	0.12	0.01	0	0	0	0	0	0	0	0
4/5/2024 11:37	54201	PENN_T1	168	213	45	0.47	0.49	0.02	-1.21	-1.23	0	0	0	0	0	0
4/5/2024 11:38	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 11:38	56501	ROCK_T2	13	9	-4	0.26	0.2	-0.06	-0.02	-0.02	0	0	0	0	0	0
4/5/2024 11:38	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/5/2024 11:38	59101	WALK_T2	0	0	0	0	0	0	1.33	1.54	0	0	0	0	0	0
4/5/2024 11:39	59101	WALK_T2	0	0	0	0	0	0	1.33	1.54	0	0	0	0	0	0
4/5/2024 11:39	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/5/2024 11:40	10801	CHHI_T1	0	0	0	0	0	0	-1.34	-1.3	2	2	0	1500	1500	0
4/5/2024 11:40	53601	DALM_T2	1	1	0	0.1	0.8	0.7	-0.03	-0.02	1	1	0	900	900	0
4/5/2024 11:40	56501	ROCK_T2	13	9	-4	0.26	0.2	-0.06	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 11:40	62604	ENGL_T1	0	0	0	0	0	0	-0.32	-0.25	2	2	0	1200	1200	0
4/5/2024 11:40	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 11:41	10801	CHHI_T1	0	0	0	0	0	0	-1.34	-1.3	2	2	0	1500	1500	0
4/5/2024 11:42	11805	FRAN_T1	0	8	8	0	0.83	0.83	0	0	0	0	0	0	0	0
4/5/2024 11:42	11804	FRAN_T1	0	2	2	0	0.45	0.45	0.87	0.86	0	0	0	0	0	0
4/5/2024 11:43	62604	ENGL_T1	0	0	0	0	0	0	-0.32	-0.25	2	2	0	1200	1200	0
4/5/2024 11:43	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 11:44	54505	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/5/2024 11:44	45003	LIME_2	1	1	0	4.4	4.4	0	0	0	1	1	0	1200	1200	0
4/5/2024 11:44	45002	LIME_2	3	10	7	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
4/5/2024 11:44	45001	LIME_2	20	33	13	0.26	0.42	0.16	0	0	0	0	0	0	0	0
4/5/2024 11:44	54501	ENOL_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
4/5/2024 11:44	54504	ENOL_T2	0	0	0	0	0	0	-0.97	-0.95	1	1	0	600	600	0
4/5/2024 11:45	40902	JESH_T1	3	0	-3	0.37	0	-0.37	-0.56	-0.51	0	0	0	0	0	0
4/5/2024 11:45	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.75	1	1	0	900	900	0
4/5/2024 11:45	62604	ENGL_T1	0	0	0	0	0	0	-0.16	-0.12	1	1	0	600	600	0
4/5/2024 11:47	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.75	1	1	0	900	900	0
4/5/2024 11:47	40902	JESH_T1	3	0	-3	0.37	0	-0.37	-0.56	-0.51	0	0	0	0	0	0
4/5/2024 11:48	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 11:49	58402	MORO_T1	0	0	0	0	0	0	-0.97	-0.02	3	2	-1	2400	1500	-900
4/5/2024 11:49	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 11:49	56501	ROCK_T2	8	3	-5	0.2	0.2	0	-0.02	-0.02	0	0	0	0	0	0
4/5/2024 11:49	54203	PENN_T1	78	219	141	0.37	0.29	-0.08	0.09	0.1	0	0	0	0	0	0
4/5/2024 11:49	54205	PENN_T1	20	73	53	0.11	0.17	0.06	0	0	0	0	0	0	0	0
4/5/2024 11:49	54201	PENN_T1	172	252	80	0.46	0.47	0.01	0	0	0	0	0	0	0	0
4/5/2024 11:49	65702	RVIL_T2	4	5	1	0.13	0.16	0.03	-1	-1.01	1	1	0	600	600	0
4/5/2024 11:50	54203	PENN_T1	78	219	141	0.37	0.29	-0.08	0.09	0.1	0	0	0	0	0	0
4/5/2024 11:50	54205	PENN_T1	20	73	53	0.11	0.17	0.06	0	0	0	0	0	0	0	0
4/5/2024 11:50	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 11:50	54201	PENN_T1	172	252	80	0.46	0.47	0.01	0	0	0	0	0	0	0	0
4/5/2024 11:50	58401	MORO_T1	0	0	0	0	0	0	-0.88	-0.92	1	1	0	600	600	0
4/5/2024 11:50	40902	JESH_T1	3	0	-3	0.37	0	-0.37	-0.56	-0.51	0	0	0	0	0	0
4/5/2024 11:50	56501	ROCK_T2	8	3	-5	0.2	0.2	0	-0.02	-0.02	0	0	0	0	0	0
4/5/2024 11:50	54203	PENN_T1	78	219	141	0.37	0.29	-0.08	0.09	0.1	0	0	0	0	0	0
4/5/2024 11:51	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 11:51	54203	PENN_T1	78	219	141	0.37	0.29	-0.08	0	0	0	0	0	0	0	0
4/5/2024 11:51	54201	PENN_T1	172	252	80	0.46	0.47	0.01	-1.23	-1.19	0	0	0	0	0	0
4/5/2024 11:51	65702	RVIL_T2	4	5	1	0.13	0.16	0.03	-1	-1.01	1	1	0	600	600	0
4/5/2024 11:51	58402	MORO_T1	0	0	0	0	0	0	-0.97	-0.02	3	2	-1	2400	1500	-900
4/5/2024 11:51	56501	ROCK_T2	8	3	-5	0.2	0.2	0	-0.02	-0.02	0	0	0	0	0	0
4/5/2024 11:51	54205	PENN_T1	20	73	53	0.11	0.17	0.06	0	0	0	0	0	0	0	0
4/5/2024 11:52	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.75	1	1	0	900	900	0
4/5/2024 11:52	56501	ROCK_T2	8	3	-5	0.2	0.2	0	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 11:52	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 11:53	54203	PENN_T1	78	219	141	0.37	0.29	-0.08	0.1	0.12	0	0	0	0	0	0
4/5/2024 11:53	54201	PENN_T1	172	252	80	0.46	0.47	0.01	-1.19	-1.22	0	0	0	0	0	0
4/5/2024 11:53	54205	PENN_T1	20	73	53	0.11	0.17	0.06	0	0	0	0	0	0	0	0
4/5/2024 11:54	56501	ROCK_T2	8	3	-5	0.2	0.2	0	-0.02	-0.02	0	0	0	0	0	0
4/5/2024 11:54	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 11:54	46004	BERW_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
4/5/2024 11:56	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 11:56	56501	ROCK_T2	8	3	-5	0.2	0.2	0	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 11:57	54501	ENOL_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
4/5/2024 11:57	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 11:57	56501	ROCK_T2	8	3	-5	0.2	0.2	0	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 11:57	54505	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/5/2024 11:58	48901	FOSP_T2	0	0	0	0	0	0	-0.12	-0.18	1	1	0	600	600	0
4/5/2024 11:59	63602	LETO_T1	1	0	-1	0.1	0	-0.1	-0.52	-0.48	0	0	0	0	0	0
4/5/2024 11:59	54505	ENOL_T2	1	1	0	0.2	0.3	0.1	-1.27	-1.26	1	1	0	600	600	0
4/5/2024 12:00	48901	FOSP_T2	0	0	0	0	0	0	-0.12	-0.18	1	1	0	600	600	0
4/5/2024 12:00	54505	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/5/2024 12:00	54501	ENOL_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
4/5/2024 12:01	54505	ENOL_T2	1	1	0	0.3	0.3	0	-2.54	-2.52	2	2	0	1200	1200	0
4/5/2024 12:01	40902	JESH_T1	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
4/5/2024 12:02	40902	JESH_T1	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
4/5/2024 12:05	56501	ROCK_T2	1	4	3	0.4	0.65	0.25	-0.03	-0.03	0	0	0	0	0	0
4/5/2024 12:05	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 12:06	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 12:06	56501	ROCK_T2	1	4	3	0.4	0.65	0.25	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 12:06	40902	JESH_T1	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
4/5/2024 12:06	59202	THOM_T1	3	14	11	0.33	0.22	-0.11	0	0	0	0	0	0	0	0
4/5/2024 12:07	56501	ROCK_T2	1	4	3	0.4	0.65	0.25	-0.02	-0.02	0	0	0	0	0	0
4/5/2024 12:07	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 12:08	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 12:08	56501	ROCK_T2	1	4	3	0.4	0.65	0.25	-0.02	-0.02	0	0	0	0	0	0
4/5/2024 12:08	58003	WCAR_T1	1	1	0	0.3	0.8	0.5	0	0	2	2	0	1200	1200	0
4/5/2024 12:08	58001	WCAR_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
4/5/2024 12:09	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 12:09	56501	ROCK_T2	1	4	3	0.4	0.65	0.25	-0.02	-0.02	0	0	0	0	0	0
4/5/2024 12:10	44302	BEAV_T2	18	63	45	0.13	0.23	0.1	0.24	0.23	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/5/2024 12:10	44301	BEAV_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/5/2024 12:12	56501	ROCK_T2	1	4	3	0.4	0.65	0.25	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 12:12	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 12:13	40902	JESH_T1	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
4/5/2024 12:15	54505	ENOL_T2	1	1	0	0.3	0.3	0	-1.26	-1.26	1	1	0	600	600	0
4/5/2024 12:15	45003	LIME_2	1	1	0	3.5	3.7	0.2	0	0	1	1	0	1200	1200	0
4/5/2024 12:15	45001	LIME_2	3	2	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/5/2024 12:16	40902	JESH_T1	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
4/5/2024 12:16	54505	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/5/2024 12:16	54501	ENOL_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
4/5/2024 12:17	64305	LINC_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
4/5/2024 12:20	64303	LINC_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
4/5/2024 12:20	65801	RTWN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 12:20	65804	RTWN_T1	0	1	1	0	0.7	0.7	0.11	0.09	1	1	0	600	600	0
4/5/2024 12:22	40902	JESH_T1	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
4/5/2024 12:22	64305	LINC_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
4/5/2024 12:23	56501	ROCK_T2	3	4	1	0.77	0.6	-0.17	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 12:25	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 12:26	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 12:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 12:28	56501	ROCK_T2	3	4	1	0.77	0.6	-0.17	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 12:31	50105	HARR_T3	8	8	0	6.15	6.14	-0.01	0	0	0	0	0	0	0	0
4/5/2024 12:31	64602	LETO_T1	0	1	1	0	0.1	0.1	-0.51	-0.51	0	0	0	0	0	0
4/5/2024 12:31	50103	HARR_T3	2	2	0	1.15	0.35	-0.8	-1.02	-0.87	1	1	0	1200	1200	0
4/5/2024 12:31	50201	HARR_T3	2	2	0	4.95	4.95	0	0	0	0	0	0	0	0	0
4/5/2024 12:31	50102	HARR_T3	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/5/2024 12:33	64305	LINC_T1	0	0	0	0	0	0	-0.3	-0.23	0	0	0	0	0	0
4/5/2024 12:33	51702	OBER_T1	2	2	0	3.5	3.5	0	-0.75	-0.76	1	1	0	600	600	0
4/5/2024 12:34	51702	OBER_T1	2	2	0	3.5	3.5	0	-0.75	-0.76	1	1	0	600	600	0
4/5/2024 12:37	64305	LINC_T1	0	0	0	0	0	0	-0.3	-0.23	0	0	0	0	0	0
4/5/2024 12:39	61102	BERK_T5	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
4/5/2024 12:39	61101	BERK_T5	17	17	0	0.31	0.35	0.04	0	0	0	0	0	0	0	0
4/5/2024 12:39	61103	BERK_T5	10	9	-1	0.23	0.38	0.15	0.06	-0.02	0	0	0	0	0	0
4/5/2024 12:40	61103	BERK_T5	10	9	-1	0.23	0.38	0.15	0.04	-0.01	0	0	0	0	0	0
4/5/2024 12:40	61101	BERK_T5	17	17	0	0.31	0.35	0.04	0	0	0	0	0	0	0	0
4/5/2024 12:40	61102	BERK_T5	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
4/5/2024 12:47	40602	PIGR_T1	1	1	0	2.4	2.1	-0.3	-0.55	-0.58	1	1	0	600	600	0
4/5/2024 12:47	40601	PIGR_T1	4	4	0	0.28	0.15	-0.13	0	0	0	0	0	0	0	0
4/5/2024 12:47	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 12:49	40602	PIGR_T1	1	1	0	2.4	2.1	-0.3	-1.1	-1.15	2	2	0	1200	1200	0
4/5/2024 12:49	40601	PIGR_T1	4	4	0	0.28	0.15	-0.13	0	0	0	0	0	0	0	0
4/5/2024 12:49	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 13:02	45001	LIME_2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
4/5/2024 13:02	45003	LIME_2	1	1	0	3.8	4	0.2	0	0	1	1	0	1200	1200	0
4/5/2024 13:05	14404	SSLA_T1	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
4/5/2024 13:05	14403	SSLA_T1	0	0	0	0	0	0	1.68	1.69	0	0	0	0	0	0
4/5/2024 13:06	66701	STRA_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
4/5/2024 13:06	66703	STRA_T1	5	0	-5	0.16	0	-0.16	-0.12	-0.17	0	0	0	0	0	0
4/5/2024 13:10	13105	NHAM_T2	0	0	0	0	0	0	-0.73	-0.72	1	1	0	1200	1200	0
4/5/2024 13:12	50102	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/5/2024 13:12	50105	HARR_T3	8	8	0	6.14	6.06	-0.08	0	0	0	0	0	0	0	0
4/5/2024 13:12	50103	HARR_T3	2	2	0	0.25	1.15	0.9	-1.01	-1	1	1	0	1200	1200	0
4/5/2024 13:12	50201	HARR_T3	2	2	0	4.95	4.6	-0.35	0	0	0	0	0	0	0	0
4/5/2024 13:20	57106	SPHI_T2	3	3	0	2.03	2.1	0.07	0	0	0	0	0	0	0	0
4/5/2024 13:20	57104	SPHI_T2	0	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0
4/5/2024 13:20	57101	SPHI_T2	6	6	0	0.65	1.02	0.37	0	0	0	0	0	0	0	0
4/5/2024 13:20	57103	SPHI_T2	0	0	0	0	0	0	-0.27	-0.28	1	1	0	600	600	0
4/5/2024 13:21	59101	WALK_T2	0	0	0	0	0	0	1.09	1.13	0	0	0	0	0	0
4/5/2024 13:23	59101	WALK_T2	0	0	0	0	0	0	1.13	1.28	0	0	0	0	0	0
4/5/2024 13:24	59101	WALK_T2	0	0	0	0	0	0	1.13	1.28	0	0	0	0	0	0
4/5/2024 13:25	60101	COCA_T1	0	0	0	0	0	0	0.34	0.4	0	0	0	0	0	0
4/5/2024 13:28	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/5/2024 13:28	54505	ENOL_T2	1	1	0	0.4	0.8	0.4	-1.3	-1.25	1	1	0	600	600	0
4/5/2024 13:29	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/5/2024 13:29	54503	ENOL_T2	0	0	0	0	0	0	-1.26	-1.26	1	1	0	600	600	0
4/5/2024 13:29	54505	ENOL_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/5/2024 13:30	54502	ENOL_T2	0	1	1	0	0.2	0.2	-1.16	-1.17	1	1	0	600	600	0
4/5/2024 13:30	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/5/2024 13:31	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/5/2024 13:31	54503	ENOL_T2	0	0	0	0	0	0	-1.26	-1.26	1	1	0	600	600	0
4/5/2024 13:31	54505	ENOL_T2	1	1	0	0.8	0.8	0	-1.3	-1.25	1	1	0	600	600	0
4/5/2024 13:32	54503	ENOL_T2	0	0	0	0	0	0	-1.26	-1.26	1	1	0	600	600	0
4/5/2024 13:32	54502	ENOL_T2	0	1	1	0	0.2	0.2	-1.16	-1.17	1	1	0	600	600	0
4/5/2024 13:32	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/5/2024 13:33	54502	ENOL_T2	0	1	1	0	0.2	0.2	-1.16	-1.17	1	1	0	600	600	0
4/5/2024 13:33	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/5/2024 13:33	59301	MCAL_T1	2	2	0	0.25	0.3	0.05	-1.38	-1.35	1	1	0	600	600	0
4/5/2024 13:36	56501	ROCK_T2	2	2	0	0.25	0.2	-0.05	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 13:37	57101	SPHI_T2	6	6	0	0.78	1.02	0.24	0	0	0	0	0	0	0	0
4/5/2024 13:37	57106	SPHI_T2	3	3	0	2.1	2.1	0	0	0	0	0	0	0	0	0
4/5/2024 13:37	57104	SPHI_T2	1	1	0	2.1	4	1.9	-1.08	-1.12	0	0	0	0	0	0
4/5/2024 13:40	53601	DALM_T2	1	1	0	0.5	0.5	0	0.11	0.12	1	1	0	900	900	0
4/5/2024 13:41	56501	ROCK_T2	2	2	0	0.25	0.2	-0.05	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 13:42	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/5/2024 13:42	54502	ENOL_T2	0	1	1	0	0.2	0.2	-1.17	-1.16	1	1	0	600	600	0
4/5/2024 13:46	59302	MCAL_T1	0	0	0	0	0	0	-0.33	-0.37	1	1	0	600	600	0
4/5/2024 13:46	59301	MCAL_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/5/2024 13:50	15103	UPHA_T2	1	0	-1	0.2	0	-0.2	0.36	0.36	0	0	0	0	0	0
4/5/2024 13:51	42802	SEU_T1	1	1	0	0.1	0	-0.1	-1.62	-1.71	2	2	0	1800	1800	0
4/5/2024 13:52	56501	ROCK_T2	2	1	-1	0.2	0.1	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 13:53	43101	SMIL_T2	0	0	0	0	0	0	-0.76	-0.8	0	0	0	0	0	0
4/5/2024 13:53	43102	SMIL_T2	6	6	0	0.33	0.45	0.12	0	0	0	0	0	0	0	0
4/5/2024 13:53	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 13:53	46004	BERW_T2	0	1	1	0	0.1	0.1	-0.73	-0.72	0	0	0	0	0	0
4/5/2024 13:53	43103	SMIL_T2	6	6	0	0.42	0.53	0.11	0	0	0	0	0	0	0	0
4/5/2024 13:53	43105	SMIL_T2	5	12	7	0.12	0.17	0.05	0	0	0	0	0	0	0	0
4/5/2024 13:57	56501	ROCK_T2	2	1	-1	0.2	0.1	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 14:05	52404	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/5/2024 14:05	59101	WALK_T2	0	0	0	0	0	0	1.18	1.08	0	0	0	0	0	0
4/5/2024 14:05	59301	MCAL_T1	2	2	0	0.3	0.45	0.15	-1.39	-1.38	1	1	0	600	600	0
4/5/2024 14:05	67002	STHI_T2	16	35	19	0.12	0.13	0.01	1.22	1.1	0	0	0	0	0	0
4/5/2024 14:05	52402	GRPA_T2	4	4	0	1.65	1.8	0.15	0	0	0	0	0	0	0	0
4/5/2024 14:05	52401	GRPA_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/5/2024 14:05	67001	STHI_T2	96	243	147	0.12	0.13	0.01	0	0	0	0	0	0	0	0
4/5/2024 14:05	52403	GRPA_T2	1	1	0	0.5	1.3	0.8	0.11	0.1	0	0	0	0	0	0
4/5/2024 14:06	59101	WALK_T2	0	0	0	0	0	0	1.18	1.08	0	0	0	0	0	0
4/5/2024 14:06	67002	STHI_T2	16	35	19	0.12	0.13	0.01	1.22	1.1	0	0	0	0	0	0
4/5/2024 14:06	67001	STHI_T2	96	243	147	0.12	0.13	0.01	0	0	0	0	0	0	0	0
4/5/2024 14:07	67001	STHI_T2	96	243	147	0.12	0.13	0.01	0	0	0	0	0	0	0	0
4/5/2024 14:07	16301	ALPA_T1	4	4	0	0.25	0.25	0	-0.35	-0.36	0	0	0	0	0	0
4/5/2024 14:07	67002	STHI_T2	16	35	19	0.12	0.13	0.01	1.83	1.65	0	0	0	0	0	0
4/5/2024 14:08	16302	ALPA_T2	0	0	0	0	0	0	0.76	0.66	0	0	0	0	0	0
4/5/2024 14:08	67002	STHI_T2	16	35	19	0.12	0.13	0.01	1.1	1.14	0	0	0	0	0	0
4/5/2024 14:08	16301	ALPA_T1	4	4	0	0.25	0.25	0	-0.36	-0.41	0	0	0	0	0	0
4/5/2024 14:08	56501	ROCK_T2	1	0	-1	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 14:08	67001	STHI_T2	96	243	147	0.12	0.13	0.01	0	0	0	0	0	0	0	0
4/5/2024 14:09	67001	STHI_T2	96	243	147	0.12	0.13	0.01	0	0	0	0	0	0	0	0
4/5/2024 14:09	66703	STRA_T1	0	0	0	0	0	0	-0.19	-0.14	0	0	0	0	0	0
4/5/2024 14:09	67002	STHI_T2	16	35	19	0.12	0.13	0.01	0.55	0.57	0	0	0	0	0	0
4/5/2024 14:10	67502	WEWI_T2	1	0	-1	0.2	0	-0.2	-1.23	-1.26	0	0	0	0	0	0
4/5/2024 14:10	16301	ALPA_T1	4	4	0	0.25	0.25	0	-0.73	-0.81	0	0	0	0	0	0
4/5/2024 14:11	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 14:11	46004	BERW_T2	0	1	1	0	0.4	0.4	-0.72	-0.75	0	0	0	0	0	0
4/5/2024 14:11	67502	WEWI_T2	1	0	-1	0.2	0	-0.2	-0.41	-0.42	0	0	0	0	0	0
4/5/2024 14:11	16302	ALPA_T2	0	0	0	0	0	0	1.52	1.31	0	0	0	0	0	0
4/5/2024 14:11	45501	DERR_T2	1	1	0	0.1	1.3	1.2	-0.4	-0.44	2	2	0	1800	1800	0
4/5/2024 14:12	53601	DALM_T2	1	1	0	0.5	0.7	0.2	0.12	0.12	1	1	0	900	900	0
4/5/2024 14:12	47002	HUGH_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/5/2024 14:12	47001	HUGH_T2	0	0	0	0	0	0	-0.78	-0.84	0	0	0	0	0	0
4/5/2024 14:12	16301	ALPA_T1	4	4	0	0.25	0.25	0	-0.36	-0.41	0	0	0	0	0	0
4/5/2024 14:13	56501	ROCK_T2	1	0	-1	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 14:13	53901	HALI_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
4/5/2024 14:13	53903	HALI_T2	2	2	0	1.35	1.6	0.25	-0.12	-0.14	0	0	0	0	0	0
4/5/2024 14:13	53902	HALI_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
4/5/2024 14:13	40902	JESH_T1	1	0	-1	0.2	0	-0.2	-0.51	-0.55	0	0	0	0	0	0
4/5/2024 14:14	64204	KINZ_T1	1	2	1	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
4/5/2024 14:14	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/5/2024 14:14	11804	FRAN_T1	1	1	0	0.4	0.3	-0.1	0.89	0.83	0	0	0	0	0	0
4/5/2024 14:14	64201	KINZ_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
4/5/2024 14:14	11805	FRAN_T1	8	8	0	0.66	1.08	0.42	0	0	0	0	0	0	0	0
4/5/2024 14:14	64203	KINZ_T1	0	0	0	0	0	0	1.2	1.07	1	1	0	600	600	0
4/5/2024 14:15	47002	HUGH_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/5/2024 14:15	53902	HALI_T2	1	1	0	5.5	5	-0.5	0	0	0	0	0	0	0	0
4/5/2024 14:15	64202	KINZ_T1	2	1	-1	0.2	0.1	-0.1	0.69	0.72	0	0	0	0	0	0
4/5/2024 14:15	64204	KINZ_T1	2	4	2	0.8	0.48	-0.32	0	0	0	0	0	0	0	0
4/5/2024 14:15	53903	HALI_T2	2	2	0	1.55	1.6	0.05	-0.12	-0.14	0	0	0	0	0	0
4/5/2024 14:15	53901	HALI_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
4/5/2024 14:15	47001	HUGH_T2	0	0	0	0	0	0	-0.78	-0.84	0	0	0	0	0	0
4/5/2024 14:15	64201	KINZ_T1	0	6	6	0	0.33	0.33	0	0	0	0	0	0	0	0
4/5/2024 14:16	63602	LETO_T1	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
4/5/2024 14:16	53901	HALI_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
4/5/2024 14:16	64202	KINZ_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/5/2024 14:16	53903	HALI_T2	2	2	0	1.55	1.6	0.05	-0.24	-0.28	0	0	0	0	0	0
4/5/2024 14:16	64201	KINZ_T1	0	6	6	0	0.33	0.33	0	0	0	0	0	0	0	0
4/5/2024 14:16	64204	KINZ_T1	2	4	2	0.8	0.48	-0.32	0	0	0	0	0	0	0	0
4/5/2024 14:16	53902	HALI_T2	1	1	0	5.5	5	-0.5	0	0	0	0	0	0	0	0
4/5/2024 14:16	64203	KINZ_T1	0	0	0	0	0	0	2.4	2.14	2	2	0	1200	1200	0
4/5/2024 14:17	43202	MVIL_T2	125	118	-7	0.44	0.45	0.01	-0.6	-0.62	0	0	0	0	0	0
4/5/2024 14:18	64802	MONE_T2	9	40	31	0.12	0.14	0.02	0.17	0.19	0	0	0	0	0	0
4/5/2024 14:18	46301	ROHR_T1	87	144	57	0.29	0.31	0.02	0	0	0	0	0	0	0	0
4/5/2024 14:18	60201	ATGL_T2	1	0	-1	0.2	0	-0.2	0.64	0.64	0	0	0	0	0	0
4/5/2024 14:18	43202	MVIL_T2	125	118	-7	0.44	0.45	0.01	0	0	0	0	0	0	0	0
4/5/2024 14:18	43201	MVIL_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/5/2024 14:18	64801	MONE_T2	2	2	0	0.4	0.4	0	0.3	0.33	0	0	0	0	0	0
4/5/2024 14:18	46302	ROHR_T1	8	15	7	1.04	0.82	-0.22	0.21	0.22	0	0	0	0	0	0
4/5/2024 14:19	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 14:20	54206	PENN_T2	4	36	32	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/5/2024 14:20	54204	PENN_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/5/2024 14:20	43202	MVIL_T2	125	118	-7	0.44	0.45	0.01	-0.6	-0.62	0	0	0	0	0	0
4/5/2024 14:20	54201	PENN_T1	243	301	58	0.48	0.51	0.03	-1.19	-1.18	0	0	0	0	0	0
4/5/2024 14:20	54205	PENN_T1	61	76	15	0.24	0.27	0.03	0	0	0	0	0	0	0	0
4/5/2024 14:20	54203	PENN_T1	158	277	119	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/5/2024 14:21	46301	ROHR_T1	87	144	57	0.29	0.31	0.02	0	0	0	0	0	0	0	0
4/5/2024 14:21	52502	PROG_T2	0	0	0	0	0	0	-0.6	-0.62	1	1	0	900	900	0
4/5/2024 14:21	59101	WALK_T2	0	0	0	0	0	0	1.08	1.16	0	0	0	0	0	0
4/5/2024 14:21	67001	STHI_T2	98	297	199	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/5/2024 14:21	58401	MORO_T1	0	0	0	0	0	0	-1.05	-1.01	1	1	0	600	600	0
4/5/2024 14:21	54204	PENN_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/5/2024 14:21	67002	STHI_T2	14	46	32	0.12	0.13	0.01	0.55	0.57	0	0	0	0	0	0
4/5/2024 14:21	54206	PENN_T2	4	36	32	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/5/2024 14:21	52501	PROG_T1	0	0	0	0	0	0	0.35	0.34	1	1	0	300	300	0
4/5/2024 14:21	46302	ROHR_T1	8	15	7	1.04	0.82	-0.22	0.21	0.22	0	0	0	0	0	0
4/5/2024 14:22	67204	TEHI_T2	0	0	0	0	0	0	-0.08	-0.05	0	0	0	0	0	0
4/5/2024 14:22	56501	ROCK_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
4/5/2024 14:22	67001	STHI_T2	98	297	199	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/5/2024 14:22	67201	TEHI_T1	43	81	38	0.21	0.32	0.11	-0.05	-0.21	1	1	0	600	600	0
4/5/2024 14:22	67203	TEHI_T1	0	0	0	0	0	0	1.94	1.95	2	2	0	1200	1200	0
4/5/2024 14:22	67002	STHI_T2	14	46	32	0.12	0.13	0.01	0.55	0.57	0	0	0	0	0	0
4/5/2024 14:23	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 14:23	26002	WDAM_T1	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
4/5/2024 14:23	42701	AUGU_T1	1	1	0	0.7	0.8	0.1	0	0	2	2	0	1800	1800	0
4/5/2024 14:23	26001	WDAM_T1	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
4/5/2024 14:24	67204	TEHI_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
4/5/2024 14:24	67002	STHI_T2	14	46	32	0.12	0.13	0.01	1.14	1.16	0	0	0	0	0	0
4/5/2024 14:24	42701	AUGU_T1	1	1	0	0.7	0.8	0.1	0	0	2	2	0	1800	1800	0
4/5/2024 14:24	46003	BERW_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/5/2024 14:24	67001	STHI_T2	98	297	199	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/5/2024 14:24	59101	WALK_T2	0	0	0	0	0	0	1.16	0.97	0	0	0	0	0	0
4/5/2024 14:24	46004	BERW_T2	1	3	2	0.1	0.27	0.17	-0.75	-0.75	0	0	0	0	0	0
4/5/2024 14:24	46002	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 14:24	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 14:25	66703	STRA_T1	0	0	0	0	0	0	-0.14	-0.04	0	0	0	0	0	0
4/5/2024 14:25	54206	PENN_T2	4	36	32	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/5/2024 14:25	42701	AUGU_T1	1	1	0	0.7	0.8	0.1	0	0	2	2	0	1800	1800	0
4/5/2024 14:25	54204	PENN_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/5/2024 14:25	26001	WDAM_T1	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
4/5/2024 14:25	28604	BLYT_T2	0	0	0	0	0	0	-1.46	-1.48	0	0	0	0	0	0
4/5/2024 14:25	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 14:25	26002	WDAM_T1	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
4/5/2024 14:26	67002	STHI_T2	14	46	32	0.12	0.13	0.01	0.57	0.58	0	0	0	0	0	0
4/5/2024 14:26	42701	AUGU_T1	1	1	0	0.7	0.8	0.1	0	0	2	2	0	1800	1800	0
4/5/2024 14:26	67001	STHI_T2	98	297	199	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/5/2024 14:27	46003	BERW_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/5/2024 14:27	53601	DALM_T2	1	1	0	0.7	0.7	0	0.12	0.15	1	1	0	900	900	0
4/5/2024 14:27	46002	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 14:27	67001	STHI_T2	98	297	199	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/5/2024 14:27	46004	BERW_T2	1	3	2	0.1	0.27	0.17	-0.75	-0.75	0	0	0	0	0	0
4/5/2024 14:27	67002	STHI_T2	14	46	32	0.12	0.13	0.01	0.57	0.58	0	0	0	0	0	0
4/5/2024 14:28	53903	HALI_T2	2	2	0	1.55	1.6	0.05	-0.14	-0.14	0	0	0	0	0	0
4/5/2024 14:28	53902	HALI_T2	1	1	0	5.5	5	-0.5	0	0	0	0	0	0	0	0
4/5/2024 14:28	53901	HALI_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
4/5/2024 14:29	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 14:29	60201	ATGL_T2	1	0	-1	0.2	0	-0.2	0.64	0.65	0	0	0	0	0	0
4/5/2024 14:29	46801	HEPB_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
4/5/2024 14:29	41801	COCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 14:30	53901	HALI_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
4/5/2024 14:30	53903	HALI_T2	2	2	0	1.6	1.55	-0.05	-0.14	-0.14	0	0	0	0	0	0
4/5/2024 14:30	46802	HEPB_T1	220	201	-19	0.42	0.35	-0.07	-2.5	-2.52	0	0	0	0	0	0
4/5/2024 14:30	53902	HALI_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
4/5/2024 14:31	64201	KINZ_T1	4	6	2	0.13	0.43	0.3	0	0	0	0	0	0	0	0
4/5/2024 14:31	64202	KINZ_T1	1	7	6	0.1	0.11	0.01	0.72	0.74	0	0	0	0	0	0
4/5/2024 14:31	65003	NEFF_T2	3	5	2	0.13	0.2	0.07	0	0	0	0	0	0	0	0
4/5/2024 14:31	65001	NEFF_T2	64	222	158	0.12	0.21	0.09	-0.86	-0.91	1	1	0	1200	1200	0
4/5/2024 14:31	54502	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/5/2024 14:31	54505	ENOL_T2	1	1	0	0.8	0.8	0	-1.25	-1.24	1	1	0	600	600	0
4/5/2024 14:31	64204	KINZ_T1	2	16	14	0.65	0.23	-0.42	0	0	0	0	0	0	0	0
4/5/2024 14:32	45003	LIME_2	1	1	0	4.2	4.6	0.4	0	0	1	1	0	1200	1200	0
4/5/2024 14:32	54505	ENOL_T2	1	1	0	0.8	0.8	0	-1.25	-1.24	1	1	0	600	600	0
4/5/2024 14:32	53903	HALI_T2	2	2	0	1.6	1.55	-0.05	-0.28	-0.28	0	0	0	0	0	0
4/5/2024 14:32	63602	LETO_T1	0	0	0	0	0	0	-0.56	-0.52	0	0	0	0	0	0
4/5/2024 14:32	45001	LIME_2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 14:32	54501	ENOL_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
4/5/2024 14:32	64204	KINZ_T1	2	16	14	0.65	0.23	-0.42	0	0	0	0	0	0	0	0
4/5/2024 14:32	64203	KINZ_T1	0	0	0	0	0	0	1.07	0.9	1	1	0	600	600	0
4/5/2024 14:32	53902	HALI_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
4/5/2024 14:32	64201	KINZ_T1	4	6	2	0.13	0.43	0.3	0	0	0	0	0	0	0	0
4/5/2024 14:32	54502	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/5/2024 14:32	53901	HALI_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
4/5/2024 14:32	64202	KINZ_T1	1	7	6	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/5/2024 14:33	54502	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/5/2024 14:33	46302	ROHR_T1	10	14	4	1.09	0.74	-0.35	0.22	0.21	0	0	0	0	0	0
4/5/2024 14:33	45003	LIME_2	1	1	0	4.2	4.6	0.4	0	0	1	1	0	1200	1200	0
4/5/2024 14:33	43202	MVIL_T2	108	126	18	0.44	0.53	0.09	-0.62	-0.61	0	0	0	0	0	0
4/5/2024 14:33	46301	ROHR_T1	106	176	70	0.3	0.32	0.02	0	0	0	0	0	0	0	0
4/5/2024 14:33	45001	LIME_2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 14:33	43201	MVIL_T2	0	0	0	0	0	0	-0.39	-0.36	0	0	0	0	0	0
4/5/2024 14:33	54505	ENOL_T2	1	1	0	0.8	0.8	0	-1.25	-1.24	1	1	0	600	600	0
4/5/2024 14:35	46301	ROHR_T1	106	176	70	0.3	0.32	0.02	0.24	0.26	0	0	0	0	0	0
4/5/2024 14:35	66703	STRA_T1	0	0	0	0	0	0	-0.14	-0.04	0	0	0	0	0	0
4/5/2024 14:35	46302	ROHR_T1	10	14	4	1.09	0.74	-0.35	0	0	0	0	0	0	0	0
4/5/2024 14:35	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 14:35	26002	WDAM_T1	2	1	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/5/2024 14:35	54203	PENN_T1	263	279	16	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
4/5/2024 14:35	26001	WDAM_T1	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
4/5/2024 14:35	54201	PENN_T1	284	301	17	0.49	0.52	0.03	-1.18	-1.21	0	0	0	0	0	0
4/5/2024 14:35	54205	PENN_T1	67	76	9	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
4/5/2024 14:36	54205	PENN_T1	67	76	9	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
4/5/2024 14:36	46302	ROHR_T1	10	14	4	1.09	0.74	-0.35	0	0	0	0	0	0	0	0
4/5/2024 14:36	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 14:36	43202	MVIL_T2	108	126	18	0.44	0.53	0.09	-0.62	-0.61	0	0	0	0	0	0
4/5/2024 14:36	46301	ROHR_T1	106	176	70	0.3	0.32	0.02	0.24	0.26	0	0	0	0	0	0
4/5/2024 14:36	54201	PENN_T1	284	301	17	0.49	0.52	0.03	-1.18	-1.21	0	0	0	0	0	0
4/5/2024 14:36	54203	PENN_T1	263	279	16	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
4/5/2024 14:37	56802	BENV_T2	27	21	-6	0.19	0.19	0	-1.25	-1.32	0	0	0	0	0	0
4/5/2024 14:37	65001	NEFF_T2	64	222	158	0.12	0.21	0.09	-0.86	-0.91	1	1	0	1200	1200	0
4/5/2024 14:37	67502	WEWI_T2	0	0	0	0	0	0	-0.42	-0.34	0	0	0	0	0	0
4/5/2024 14:37	46302	ROHR_T1	10	14	4	1.09	0.74	-0.35	0.22	0.21	0	0	0	0	0	0
4/5/2024 14:37	67001	STHI_T2	236	429	193	0.13	0.18	0.05	0	0	0	0	0	0	0	0
4/5/2024 14:37	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 14:37	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 14:37	46301	ROHR_T1	106	176	70	0.3	0.32	0.02	0	0	0	0	0	0	0	0
4/5/2024 14:37	67002	STHI_T2	31	103	72	0.13	0.15	0.02	1.71	1.74	0	0	0	0	0	0
4/5/2024 14:37	27502	WEIS_T2	0	0	0	0	0	0	-0.55	-0.5	0	0	0	0	0	0
4/5/2024 14:37	65003	NEFF_T2	3	5	2	0.13	0.2	0.07	0	0	0	0	0	0	0	0
4/5/2024 14:37	27503	WEIS_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/5/2024 14:37	45602	WOOL_T1	2	2	0	0.35	0.5	0.15	0.53	0.48	0	0	0	0	0	0
4/5/2024 14:37	59101	WALK_T2	0	0	0	0	0	0	1.16	0.97	0	0	0	0	0	0
4/5/2024 14:38	54204	PENN_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/5/2024 14:38	67002	STHI_T2	31	103	72	0.13	0.15	0.02	0.58	0.59	0	0	0	0	0	0
4/5/2024 14:38	10801	CHHI_T1	0	0	0	0	0	0	-0.96	-0.97	1	1	0	900	900	0
4/5/2024 14:38	67001	STHI_T2	236	429	193	0.13	0.18	0.05	0	0	0	0	0	0	0	0
4/5/2024 14:38	54202	PENN_T2	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
4/5/2024 14:38	54206	PENN_T2	36	0	0	0.11	0.12	0.01	0	0	0	0	0	0	0	0
4/5/2024 14:38	45602	WOOL_T1	2	2	0	0.35	0.5	0.15	0.48	0.53	0	0	0	0	0	0
4/5/2024 14:38	15001	BLMO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/5/2024 14:38	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 14:38	42503	ALTA_T2	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
4/5/2024 14:39	60801	BUCK_T1	35	51	16	0.27	0.37	0.1	-0.16	-0.21	0	0	0	0	0	0
4/5/2024 14:39	67001	STHI_T2	236	429	193	0.13	0.18	0.05	0	0	0	0	0	0	0	0
4/5/2024 14:39	64101	REFR_T1	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
4/5/2024 14:39	67002	STHI_T2	31	103	72	0.13	0.15	0.02	2.33	2.36	0	0	0	0	0	0
4/5/2024 14:39	60803	BUCK_T1	17	22	5	0.33	0.49	0.16	0	0	0	0	0	0	0	0
4/5/2024 14:39	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 14:40	46003	BERW_T2	1	11	10	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/5/2024 14:40	46002	BERW_T2	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
4/5/2024 14:40	67002	STHI_T2	31	103	72	0.13	0.15	0.02	0.58	0.59	0	0	0	0	0	0
4/5/2024 14:40	46004	BERW_T2	1	8	7	0.4	0.21	-0.19	-0.75	-0.71	0	0	0	0	0	0
4/5/2024 14:40	67001	STHI_T2	236	429	193	0.13	0.18	0.05	0	0	0	0	0	0	0	0
4/5/2024 14:40	64101	REFR_T1	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
4/5/2024 14:41	60802	BUCK_T2	7	34	27	0.21	0.18	-0.03	0.2	0.18	0	0	0	0	0	0
4/5/2024 14:41	56802	BENV_T2	27	21	-6	0.19	0.19	0	-1.32	-1.29	0	0	0	0	0	0
4/5/2024 14:41	67502	WEWI_T2	0	0	0	0	0	0	-1.03	-1.26	0	0	0	0	0	0
4/5/2024 14:41	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 14:41	15001	BLMO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/5/2024 14:41	60101	COCA_T1	0	0	0	0	0	0	0.34	0.41	0	0	0	0	0	0
4/5/2024 14:41	20403	ASHF_T2	0	33	33	0	0.23	0.23	0.06	0.07	0	0	0	0	0	0
4/5/2024 14:42	46004	BERW_T2	1	8	7	0.4	0.21	-0.19	-0.75	-0.71	0	0	0	0	0	0
4/5/2024 14:42	60801	BUCK_T1	35	51	16	0.27	0.37	0.1	-0.16	-0.21	0	0	0	0	0	0
4/5/2024 14:42	60803	BUCK_T1	17	22	5	0.33	0.49	0.16	0	0	0	0	0	0	0	0
4/5/2024 14:42	56801	BENV_T1	3	13	10	0.73	0.65	-0.08	-1.53	-1.48	2	2	0	1200	1200	0
4/5/2024 14:42	67002	STHI_T2	31	103	72	0.13	0.15	0.02	0.58	0.59	0	0	0	0	0	0
4/5/2024 14:42	56803	BENV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/5/2024 14:42	45602	WOOL_T1	2	2	0	0.35	0.5	0.15	0.48	0.53	0	0	0	0	0	0
4/5/2024 14:42	20403	ASHF_T2	0	33	33	0	0.23	0.23	0.06	0.07	0	0	0	0	0	0
4/5/2024 14:42	46003	BERW_T2	1	11	10	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/5/2024 14:42	67001	STHI_T2	236	429	193	0.13	0.18	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/5/2024 14:42	15001	BLMO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/5/2024 14:42	46002	BERW_T2	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
4/5/2024 14:42	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 14:43	60803	BUCK_T1	17	22	5	0.33	0.49	0.16	0	0	0	0	0	0	0	0
4/5/2024 14:43	53901	HALI_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
4/5/2024 14:43	60101	COCA_T1	0	0	0	0	0	0	0.34	0.41	0	0	0	0	0	0
4/5/2024 14:43	10801	CHHI_T1	0	0	0	0	0	0	-0.96	-0.97	1	1	0	900	900	0
4/5/2024 14:43	60801	BUCK_T1	35	51	16	0.27	0.37	0.1	-0.32	-0.42	0	0	0	0	0	0
4/5/2024 14:43	45602	WOOL_T1	2	2	0	0.35	0.5	0.15	0.48	0.53	0	0	0	0	0	0
4/5/2024 14:43	53903	HALI_T2	2	2	0	1.6	1.55	-0.05	-0.14	-0.14	0	0	0	0	0	0
4/5/2024 14:43	40902	JESH_T1	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
4/5/2024 14:43	53902	HALI_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
4/5/2024 14:44	60803	BUCK_T1	17	22	5	0.33	0.49	0.16	0	0	0	0	0	0	0	0
4/5/2024 14:44	53903	HALI_T2	2	2	0	1.6	1.55	-0.05	-0.14	-0.14	0	0	0	0	0	0
4/5/2024 14:44	60801	BUCK_T1	35	51	16	0.27	0.37	0.1	-0.16	-0.21	0	0	0	0	0	0
4/5/2024 14:44	53902	HALI_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
4/5/2024 14:44	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 14:44	53901	HALI_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
4/5/2024 14:44	59301	MCAL_T1	2	2	0	0.45	1	0.55	0	0	0	0	0	0	0	0
4/5/2024 14:44	59302	MCAL_T1	0	0	0	0	0	0	-0.44	-0.41	1	1	0	600	600	0
4/5/2024 14:45	53903	HALI_T2	2	2	0	1.55	1.5	-0.05	-0.14	-0.14	0	0	0	0	0	0
4/5/2024 14:45	53902	HALI_T2	1	1	0	4.8	5.6	0.8	0	0	0	0	0	0	0	0
4/5/2024 14:45	41802	GOCI_T2	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
4/5/2024 14:45	40902	JESH_T1	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
4/5/2024 14:45	46801	HEPB_T2	0	2	2	0	0.15	0.15	0.58	0.59	0	0	0	0	0	0
4/5/2024 14:45	60201	ATGL_T2	0	21	21	0	0.11	0.11	0.65	0.65	0	0	0	0	0	0
4/5/2024 14:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 14:45	53901	HALI_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
4/5/2024 14:45	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.74	1	1	0	900	900	0
4/5/2024 14:46	64204	KINZ_T1	4	23	19	0.48	0.24	-0.24	0	0	0	0	0	0	0	0
4/5/2024 14:46	64202	KINZ_T1	1	9	8	0.1	0.12	0.02	0.74	0.73	0	0	0	0	0	0
4/5/2024 14:46	46802	HEPB_T1	186	193	7	0.32	0.35	0.03	-2.52	-2.41	0	0	0	0	0	0
4/5/2024 14:46	43202	MVIL_T2	104	131	27	0.43	0.54	0.11	-0.61	-0.62	0	0	0	0	0	0
4/5/2024 14:46	64201	KINZ_T1	6	6	0	0.33	0.45	0.12	0	0	0	0	0	0	0	0
4/5/2024 14:46	64203	KINZ_T1	0	0	0	0	0	0	0.9	0.95	1	1	0	600	600	0
4/5/2024 14:47	52404	GRPA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/5/2024 14:47	63602	LETO_T1	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
4/5/2024 14:47	52402	GRPA_T2	4	5	1	1.6	1.26	-0.34	0	0	0	0	0	0	0	0
4/5/2024 14:47	52401	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/5/2024 14:47	52403	GRPA_T2	1	1	0	1.7	1	-0.7	0.05	0.05	0	0	0	0	0	0
4/5/2024 14:47	60801	BUCK_T1	50	53	3	0.33	0.38	0.05	-0.16	-0.21	0	0	0	0	0	0
4/5/2024 14:47	60803	BUCK_T1	19	24	5	0.52	0.42	-0.1	0	0	0	0	0	0	0	0
4/5/2024 14:48	64203	KINZ_T1	0	0	0	0	0	0	2.7	2.84	3	3	0	1800	1800	0
4/5/2024 14:48	40902	JESH_T1	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
4/5/2024 14:48	64201	KINZ_T1	6	6	0	0.33	0.45	0.12	0	0	0	0	0	0	0	0
4/5/2024 14:48	64202	KINZ_T1	1	9	8	0.1	0.12	0.02	0	0	0	0	0	0	0	0
4/5/2024 14:48	64204	KINZ_T1	4	23	19	0.48	0.24	-0.24	0	0	0	0	0	0	0	0
4/5/2024 14:49	56501	ROCK_T2	0	2	2	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 14:49	43201	MVIL_T2	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
4/5/2024 14:49	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.74	1	1	0	900	900	0
4/5/2024 14:49	43202	MVIL_T2	104	131	27	0.43	0.54	0.11	-0.61	-0.62	0	0	0	0	0	0
4/5/2024 14:50	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.74	1	1	0	900	900	0
4/5/2024 14:51	15701	TANN_T1	1	2	1	3.9	2.45	-1.45	0	0	0	0	0	0	0	0
4/5/2024 14:51	15704	TANN_T1	0	0	0	0	0	0	-1.06	-1.14	0	0	0	0	0	0
4/5/2024 14:53	20403	ASHF_T2	33	3	-30	0.23	0.5	0.27	0.07	0.12	0	0	0	0	0	0
4/5/2024 14:53	43102	SMIL_T2	6	7	1	0.62	0.54	-0.08	0	0	0	0	0	0	0	0
4/5/2024 14:53	43103	SMIL_T2	9	9	0	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
4/5/2024 14:53	43101	SMIL_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/5/2024 14:53	43105	SMIL_T2	3	1	-2	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
4/5/2024 14:53	45602	WOOL_T1	1	2	1	0.3	0.5	0.2	1.06	1	0	0	0	0	0	0
4/5/2024 14:53	43104	SMIL_T2	0	0	0	0	0	0	-0.8	-0.82	1	1	0	300	300	0
4/5/2024 14:53	67002	STHI_T2	39	111	72	0.12	0.16	0.04	0.59	0.59	0	0	0	0	0	0
4/5/2024 14:53	67001	STHI_T2	258	435	177	0.13	0.18	0.05	0	0	0	0	0	0	0	0
4/5/2024 14:54	45501	DERR_T2	0	0	0	0	0	0	-0.66	-0.65	2	2	0	1800	1800	0
4/5/2024 14:54	60801	BUCK_T1	50	53	3	0.33	0.38	0.05	-0.42	-0.38	0	0	0	0	0	0
4/5/2024 14:54	64101	REFR_T1	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
4/5/2024 14:54	60803	BUCK_T1	19	24	5	0.52	0.42	-0.1	0	0	0	0	0	0	0	0
4/5/2024 14:55	59202	THOM_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 14:55	60803	BUCK_T1	19	24	5	0.52	0.42	-0.1	0	0	0	0	0	0	0	0
4/5/2024 14:55	56802	BENV_T2	10	28	18	0.25	0.19	-0.06	-2.57	-2.56	0	0	0	0	0	0
4/5/2024 14:55	67002	STHI_T2	39	111	72	0.12	0.16	0.04	1.77	1.77	0	0	0	0	0	0
4/5/2024 14:55	46001	BERW_T1	0	0	0	0	0	0	0.71	0.79	0	0	0	0	0	0
4/5/2024 14:55	60801	BUCK_T1	50	53	3	0.33	0.38	0.05	-0.21	-0.19	0	0	0	0	0	0
4/5/2024 14:55	56501	ROCK_T2	0	2	2	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 14:55	67001	STHI_T2	258	435	177	0.13	0.18	0.05	0	0	0	0	0	0	0	0
4/5/2024 14:56	64101	REFR_T1	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
4/5/2024 14:56	20403	ASHF_T2	33	3	-30	0.23	0.5	0.27	0.07	0.12	0	0	0	0	0	0
4/5/2024 14:56	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 14:56	67001	STHI_T2	258	435	177	0.13	0.18	0.05	0	0	0	0	0	0	0	0
4/5/2024 14:56	67002	STHI_T2	39	111	72	0.12	0.16	0.04	0.59	0.59	0	0	0	0	0	0
4/5/2024 14:57	46001	BERW_T1	0	0	0	0	0	0	0.71	0.79	0	0	0	0	0	0
4/5/2024 14:58	46001	BERW_T1	0	0	0	0	0	0	0.71	0.79	0	0	0	0	0	0
4/5/2024 14:58	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 14:58	45602	WOOL_T1	1	2	1	0.3	0.5	0.2	0.53	0.5	0	0	0	0	0	0
4/5/2024 14:58	53902	HALI_T2	1	1	0	4.8	5.6	0.8	0	0	0	0	0	0	0	0
4/5/2024 14:58	53901	HALI_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
4/5/2024 14:58	53903	HALI_T2	2	2	0	1.55	1.5	-0.05	-0.14	-0.15	0	0	0	0	0	0
4/5/2024 14:59	65003	NEFF_T2	5	4	-1	0.16	0.23	0.07	0	0	0	0	0	0	0	0
4/5/2024 14:59	45602	WOOL_T1	1	2	1	0.3	0.5	0.2	0.53	0.5	0	0	0	0	0	0
4/5/2024 14:59	53601	DALM_T2	1	1	0	0.7	0.4	-0.3	0.17	0.17	1	1	0	900	900	0
4/5/2024 14:59	65001	NEFF_T2	147	227	80	0.17	0.23	0.06	-0.91	-0.94	1	1	0	1200	1200	0
4/5/2024 15:00	64802	MONE_T2	50	41	-9	0.13	0.14	0.01	0.18	0.18	0	0	0	0	0	0
4/5/2024 15:00	60803	BUCK_T1	22	25	3	0.42	0.43	0.01	0	0	0	0	0	0	0	0
4/5/2024 15:00	60801	BUCK_T1	47	52	5	0.36	0.38	0.02	-0.21	-0.19	0	0	0	0	0	0
4/5/2024 15:00	64801	MONE_T2	1	5	4	0.8	0.26	-0.54	0	0	0	0	0	0	0	0
4/5/2024 15:01	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.66	1	1	0	900	900	0
4/5/2024 15:03	42903	MIDD_T2	2	2	0	1.4	1.9	0.5	0	0	0	0	0	0	0	0
4/5/2024 15:03	46001	BERW_T1	0	0	0	0	0	0	0.71	0.79	0	0	0	0	0	0
4/5/2024 15:03	42902	MIDD_T2	1	6	5	0.1	0.2	0.1	-0.25	-0.25	0	0	0	0	0	0
4/5/2024 15:04	65001	NEFF_T2	220	237	17	0.22	0.37	0.15	0	0	0	0	0	0	0	0
4/5/2024 15:04	40902	JESH_T1	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
4/5/2024 15:04	65003	NEFF_T2	4	5	1	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
4/5/2024 15:04	65004	NEFF_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
4/5/2024 15:05	56501	ROCK_T2	2	3	1	0.1	0.23	0.13	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 15:06	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.66	1	1	0	900	900	0
4/5/2024 15:09	40902	JESH_T1	0	0	0	0	0	0	-0.67	-0.76	0	0	0	0	0	0
4/5/2024 15:09	15001	BLMO_T1	0	1	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/5/2024 15:10	60801	BUCK_T1	47	52	5	0.36	0.38	0.02	-0.19	-0.2	0	0	0	0	0	0
4/5/2024 15:10	62604	ENGL_T1	0	0	0	0	0	0	-0.37	-0.35	1	1	0	600	600	0
4/5/2024 15:10	56501	ROCK_T2	2	3	1	0.1	0.23	0.13	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 15:10	60803	BUCK_T1	22	25	3	0.42	0.43	0.01	0	0	0	0	0	0	0	0
4/5/2024 15:11	62604	ENGL_T1	0	0	0	0	0	0	-0.37	-0.35	1	1	0	600	600	0
4/5/2024 15:12	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 15:13	62604	ENGL_T1	0	0	0	0	0	0	-0.37	-0.35	1	1	0	600	600	0
4/5/2024 15:14	24104	EHAZ_T1	0	1	1	0	9.5	9.5	0	0	0	0	0	0	0	0
4/5/2024 15:14	40902	JESH_T1	0	0	0	0	0	0	-0.67	-0.76	0	0	0	0	0	0
4/5/2024 15:14	24105	EHAZ_T1	4	4	0	5.25	5.18	-0.07	-1.93	-1.92	1	1	0	1200	1200	0
4/5/2024 15:14	24102	EHAZ_T1	4	3	-1	0.93	0.3	-0.63	0	0	0	0	0	0	0	0
4/5/2024 15:15	62604	ENGL_T1	0	0	0	0	0	0	-0.37	-0.35	1	1	0	600	600	0
4/5/2024 15:16	52002	LING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/5/2024 15:16	52004	LING_T2	0	1	1	0	0.1	0.1	0.17	0.14	0	0	0	0	0	0
4/5/2024 15:16	52006	LING_T2	1	3	2	0.3	0.3	0	0	0	0	0	0	0	0	0
4/5/2024 15:16	60803	BUCK_T1	23	26	3	0.38	0.43	0.05	0	0	0	0	0	0	0	0
4/5/2024 15:16	60801	BUCK_T1	49	53	4	0.38	0.34	-0.04	-0.19	-0.2	0	0	0	0	0	0
4/5/2024 15:17	26401	INOR_T1	1	3	2	6.4	2.1	-4.3	0.87	0.96	0	0	0	0	0	0
4/5/2024 15:17	64902	MILL_T2	0	0	0	0	0	0	-0.66	-0.75	1	1	0	900	900	0
4/5/2024 15:18	62604	ENGL_T1	0	0	0	0	0	0	-0.37	-0.35	1	1	0	600	600	0
4/5/2024 15:19	40902	JESH_T1	0	0	0	0	0	0	-0.67	-0.76	0	0	0	0	0	0
4/5/2024 15:19	24102	EHAZ_T1	3	2	-1	0.83	0	-0.83	0	0	0	0	0	0	0	0
4/5/2024 15:19	24105	EHAZ_T1	4	4	0	5.18	5.18	0	-1.93	-1.92	1	1	0	1200	1200	0
4/5/2024 15:21	56501	ROCK_T2	2	1	-1	0.2	0.3	0.1	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 15:22	59102	WALK_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/5/2024 15:22	59101	WALK_T2	0	0	0	0	0	0	0.86	1.04	0	0	0	0	0	0
4/5/2024 15:22	64902	MILL_T2	0	0	0	0	0	0	-0.66	-0.75	1	1	0	900	900	0
4/5/2024 15:24	59102	WALK_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/5/2024 15:24	59101	WALK_T2	0	0	0	0	0	0	1.04	1.14	0	0	0	0	0	0
4/5/2024 15:26	65802	RTWN_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
4/5/2024 15:26	60803	BUCK_T1	23	26	3	0.38	0.43	0.05	0	0	0	0	0	0	0	0
4/5/2024 15:26	60801	BUCK_T1	49	53	4	0.38	0.34	-0.04	-0.2	-0.2	0	0	0	0	0	0
4/5/2024 15:26	56501	ROCK_T2	2	1	-1	0.2	0.3	0.1	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 15:30	54502	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/5/2024 15:30	45003	LIME_2	1	1	0	4	3.7	-0.3	0	0	1	1	0	1200	1200	0
4/5/2024 15:30	54501	ENOL_T2	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
4/5/2024 15:30	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/5/2024 15:30	45001	LIME_2	0	10	10	0	0.18	0.18	0	0	0	0	0	0	0	0
4/5/2024 15:31	60803	BUCK_T1	23	26	3	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
4/5/2024 15:31	60801	BUCK_T1	46	50	4	0.35	0.3	-0.05	-0.2	-0.2	0	0	0	0	0	0
4/5/2024 15:31	45001	LIME_2	0	10	10	0	0.18	0.18	0	0	0	0	0	0	0	0
4/5/2024 15:31	45003	LIME_2	1	1	0	4	3.7	-0.3	0	0	1	1	0	1200	1200	0
4/5/2024 15:33	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.74	1	1	0	900	900	0
4/5/2024 15:36	54204	PENN_T2	2	2	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
4/5/2024 15:36	54206	PENN_T2	38	39	1	0.12	0.22	0.1	0	0	0	0	0	0	0	0
4/5/2024 15:36	54202	PENN_T2	12	16	4	0.12	0.13	0.01	0.64	0.65	0	0	0	0	0	0
4/5/2024 15:37	56501	ROCK_T2	1	2	1	0.3	0.15	-0.15	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 15:37	59202	THOM_T1	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/5/2024 15:37	42701	AUGU_T1	1	1	0	0.5	0.6	0.1	0	0	4	4	0	3600	3600	0
4/5/2024 15:38	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.73	1	1	0	900	900	0
4/5/2024 15:42	60801	BUCK_T1	46	50	4	0.35	0.3	-0.05	-0.2	-0.17	0	0	0	0	0	0
4/5/2024 15:42	56501	ROCK_T2	1	2	1	0.3	0.15	-0.15	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 15:42	60803	BUCK_T1	23	26	3	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
4/5/2024 15:46	24105	EHAZ_T1	4	4	0	5.18	5.8	0.62	-1.94	-0.64	1	1	0	1200	1200	0
4/5/2024 15:46	64202	KINZ_T1	15	11	-4	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
4/5/2024 15:46	64203	KINZ_T1	1	37	36	0.1	0.18	0.08	0.7	-0.07	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/5/2024 15:46	64204	KINZ_T1	37	22	-15	0.45	0.27	-0.18	0	0	0	0	0	0	0	0
4/5/2024 15:46	64201	KINZ_T1	12	11	-1	0.54	0.46	-0.08	0	0	0	0	0	0	0	0
4/5/2024 15:46	24102	EHAZ_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/5/2024 15:46	24103	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 15:47	60801	BUCK_T1	50	33	-17	0.3	0.25	-0.05	-0.2	-0.17	0	0	0	0	0	0
4/5/2024 15:47	60803	BUCK_T1	26	23	-3	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
4/5/2024 15:48	64202	KINZ_T1	15	11	-4	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
4/5/2024 15:48	60201	ATGL_T2	5	0	-5	0.1	0	-0.1	0.74	0.71	0	0	0	0	0	0
4/5/2024 15:48	64204	KINZ_T1	37	22	-15	0.45	0.27	-0.18	0	0	0	0	0	0	0	0
4/5/2024 15:48	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.73	1	1	0	900	900	0
4/5/2024 15:48	64201	KINZ_T1	12	11	-1	0.54	0.46	-0.08	0	0	0	0	0	0	0	0
4/5/2024 15:48	65901	SAKR_T2	1	1	0	9.1	9.2	0.1	0	0	0	0	0	0	0	0
4/5/2024 15:48	65902	SAKR_T2	0	0	0	0	0	0	-0.37	-0.36	1	1	0	300	300	0
4/5/2024 15:48	64203	KINZ_T1	1	37	36	0.1	0.18	0.08	0.7	-0.07	1	1	0	600	600	0
4/5/2024 15:49	64202	KINZ_T1	15	11	-4	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
4/5/2024 15:49	54205	PENN_T1	90	126	36	0.32	0.27	-0.05	0	0	0	0	0	0	0	0
4/5/2024 15:49	54203	PENN_T1	313	339	26	0.33	0.31	-0.02	0.76	0.72	0	0	0	0	0	0
4/5/2024 15:49	64201	KINZ_T1	12	11	-1	0.54	0.46	-0.08	0	0	0	0	0	0	0	0
4/5/2024 15:49	64204	KINZ_T1	37	22	-15	0.45	0.27	-0.18	0	0	0	0	0	0	0	0
4/5/2024 15:49	64203	KINZ_T1	1	37	36	0.1	0.18	0.08	0.7	-0.07	1	1	0	600	600	0
4/5/2024 15:49	54201	PENN_T1	335	328	-7	0.55	0.56	0.01	0	0	0	0	0	0	0	0
4/5/2024 15:50	67605	WARW_T1	20	8	-12	0.51	0.49	-0.02	-1.1	-0.91	0	0	0	0	0	0
4/5/2024 15:51	24102	EHAZ_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/5/2024 15:51	24103	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 15:51	59102	WALK_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/5/2024 15:51	59101	WALK_T2	0	0	0	0	0	0	1.14	1.38	0	0	0	0	0	0
4/5/2024 15:51	67204	TEHI_T2	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
4/5/2024 15:51	24105	EHAZ_T1	4	4	0	5.18	5.8	0.62	-1.94	-0.64	1	1	0	1200	1200	0
4/5/2024 15:52	54201	PENN_T1	335	328	-7	0.55	0.56	0.01	0	0	0	0	0	0	0	0
4/5/2024 15:52	54203	PENN_T1	313	339	26	0.33	0.31	-0.02	0.76	0.72	0	0	0	0	0	0
4/5/2024 15:52	54205	PENN_T1	90	126	36	0.32	0.27	-0.05	0	0	0	0	0	0	0	0
4/5/2024 15:53	13901	SEID_T1	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
4/5/2024 15:53	64902	MILL_T2	0	0	0	0	0	0	-0.73	-0.74	1	1	0	900	900	0
4/5/2024 15:53	67204	TEHI_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
4/5/2024 15:54	44302	BEAV_T2	31	32	1	0.13	0.16	0.03	0	0	0	0	0	0	0	0
4/5/2024 15:54	44301	BEAV_T2	1	0	-1	0.2	0	-0.2	-0.55	-0.51	1	1	0	600	600	0
4/5/2024 15:58	60803	BUCK_T1	26	23	-3	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
4/5/2024 15:58	60801	BUCK_T1	50	33	-17	0.3	0.25	-0.05	-0.17	-0.17	0	0	0	0	0	0
4/5/2024 16:00	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
4/5/2024 16:00	54502	ENOL_T2	1	1	0	0.2	0.2	0	-1.14	-1.16	1	1	0	600	600	0
4/5/2024 16:03	60801	BUCK_T1	28	29	1	0.26	0.23	-0.03	-0.17	-0.17	0	0	0	0	0	0
4/5/2024 16:03	60201	ATGL_T2	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
4/5/2024 16:03	60803	BUCK_T1	23	18	-5	0.31	0.38	0.07	0	0	0	0	0	0	0	0
4/5/2024 16:04	59402	RFLD_T2	0	0	0	0	0	0	-0.84	-0.81	1	1	0	450	450	0
4/5/2024 16:05	59402	RFLD_T2	0	0	0	0	0	0	-0.84	-0.81	1	1	0	450	450	0
4/5/2024 16:06	58401	MORO_T1	0	0	0	0	0	0	-1.02	-0.95	1	1	0	600	600	0
4/5/2024 16:07	59402	RFLD_T2	0	0	0	0	0	0	-0.84	-0.81	1	1	0	450	450	0
4/5/2024 16:07	52502	PROG_T2	0	0	0	0	0	0	-0.57	-0.56	1	1	0	900	900	0
4/5/2024 16:08	56501	ROCK_T2	2	5	3	0.1	0.2	0.1	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 16:08	59402	RFLD_T2	0	0	0	0	0	0	-0.81	-0.82	1	1	0	450	450	0
4/5/2024 16:13	56501	ROCK_T2	2	5	3	0.1	0.2	0.1	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 16:19	59402	RFLD_T2	0	0	0	0	0	0	-1.63	-1.64	2	2	0	900	900	0
4/5/2024 16:23	59402	RFLD_T2	0	0	0	0	0	0	-0.82	-0.85	1	1	0	450	450	0
4/5/2024 16:24	56501	ROCK_T2	5	3	-2	0.18	0.2	0.02	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 16:24	59101	WALK_T2	0	0	0	0	0	0	1.23	1.37	0	0	0	0	0	0
4/5/2024 16:26	45501	DERR_T2	0	1	1	0	0	0	-0.66	-0.71	2	2	0	1800	1800	0
4/5/2024 16:27	45501	DERR_T2	0	1	1	0	0	0	-0.66	-0.71	2	2	0	1800	1800	0
4/5/2024 16:27	59101	WALK_T2	0	0	0	0	0	0	1.23	1.37	0	0	0	0	0	0
4/5/2024 16:29	56501	ROCK_T2	5	3	-2	0.18	0.2	0.02	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 16:31	64202	KINZ_T1	14	34	20	0.43	0.36	-0.07	0	0	0	0	0	0	0	0
4/5/2024 16:31	64203	KINZ_T1	50	46	-4	0.22	0.28	0.06	-0.1	0.29	0	0	0	0	0	0
4/5/2024 16:31	64201	KINZ_T1	21	11	-10	0.41	0.64	0.23	0	0	0	0	0	0	0	0
4/5/2024 16:31	64204	KINZ_T1	31	37	6	0.39	0.44	0.05	0	0	0	0	0	0	0	0
4/5/2024 16:34	56501	ROCK_T2	3	2	-1	0.17	0.2	0.03	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 16:35	64204	KINZ_T1	31	37	6	0.39	0.44	0.05	0	0	0	0	0	0	0	0
4/5/2024 16:35	64203	KINZ_T1	50	46	-4	0.22	0.28	0.06	-0.1	0.29	0	0	0	0	0	0
4/5/2024 16:35	64201	KINZ_T1	21	11	-10	0.41	0.64	0.23	0	0	0	0	0	0	0	0
4/5/2024 16:35	64202	KINZ_T1	14	34	20	0.43	0.36	-0.07	0	0	0	0	0	0	0	0
4/5/2024 16:40	56501	ROCK_T2	3	2	-1	0.17	0.2	0.03	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 16:47	16301	ALPA_T1	3	5	2	0.23	0.26	0.03	-0.43	-0.42	0	0	0	0	0	0
4/5/2024 16:53	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 16:53	52404	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/5/2024 16:53	52403	GRPA_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
4/5/2024 16:53	52402	GRPA_T2	4	5	1	1.33	1.22	-0.11	0	0	0	0	0	0	0	0
4/5/2024 18:07	16603	PONO_T2	0	0	0	0	0	0	0.32	0.46	1	1	0	1200	1200	0
4/5/2024 18:15	54505	ENOL_T2	1	1	0	0.7	0.5	-0.2	-1.25	-1.23	1	1	0	600	600	0
4/5/2024 20:10	52402	GRPA_T2	4	4	0	0.93	1.3	0.37	0	0	0	0	0	0	0	0
4/5/2024 20:10	52403	GRPA_T2	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
4/5/2024 20:10	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/5/2024 20:14	56802	BENV_T2	1	1	0	0.1	0.1	0	-1.33	-1.33	0	0	0	0	0	0
4/5/2024 20:15	56802	BENV_T2	1	2	1	0.1	0.25	0.15	-1.33	-1.33	0	0	0	0	0	0
4/5/2024 20:34	20603	GRWO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/5/2024 20:34	47802	MOCA_T2	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
4/5/2024 20:34	20601	GRWO_T2	2	1	-1	0.85	0	-0.85	0.13	0.11	0	0	0	0	0	0
4/5/2024 20:42	56802	BENV_T2	1	30	29	0.1	0.15	0.05	-1.31	-1.36	0	0	0	0	0	0
4/5/2024 20:56	60801	BUCK_T1	19	32	13	0.17	0.21	0.04	-0.18	-0.19	0	0	0	0	0	0
4/5/2024 20:56	60803	BUCK_T1	14	18	4	0.27	0.37	0.1	0	0	0	0	0	0	0	0
4/5/2024 20:57	57403	SPAN_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
4/5/2024 21:04	60803	BUCK_T1	15	19	4	0.38	0.32	-0.06	-0.52	-0.51	1	1	0	600	600	0
4/5/2024 21:04	40101	HUNT_T2	0	6	6	0	0	0	-0.99	-1	0	0	0	0	0	0
4/5/2024 21:04	60801	BUCK_T1	24	32	8	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
4/5/2024 21:06	60605	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 21:15	59402	RFLD_T2	0	0	0	0	0	0	-0.85	-0.85	1	1	0	450	450	0
4/5/2024 21:15	59302	MCAL_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/5/2024 21:15	59301	MCAL_T1	2	3	1	1.1	0.7	-0.4	-1.81	-1.83	1	1	0	600	600	0
4/5/2024 21:18	40602	PIGR_T1	0	0	0	0	0	0	-1.3	-1.31	2	2	0	1200	1200	0
4/5/2024 21:18	44601	SALE_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
4/5/2024 21:18	40601	PIGR_T1	24	133	109	0.18	0.27	0.09	0	0	0	0	0	0	0	0
4/5/2024 21:20	44601	SALE_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
4/5/2024 21:22	57401	SPAN_T1	0	2	2	0	0.55	0.55	-0.79	-0.82	1	1	0	600	600	0
4/5/2024 21:23	17002	RIRO_T2	157	304	147	0.23	0.27	0.04	0.34	0.37	0	0	0	0	0	0
4/5/2024 21:25	15001	BLMO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/5/2024 21:25	47001	HUGH_T2	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
4/5/2024 21:25	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 21:25	62604	ENGL_T1	0	0	0	0	0	0	-0.51	-0.52	1	1	0	600	600	0
4/5/2024 21:26	46004	BERW_T2	3	0	-3	0.4	0	-0.4	-0.83	-0.82	0	0	0	0	0	0
4/5/2024 21:27	56802	BENV_T2	2	76	74	0.4	0.17	-0.23	-1.31	-1.36	0	0	0	0	0	0
4/5/2024 21:27	40101	HUNT_T2	6	2	-4	0.25	0	-0.25	-1.02	-1	0	0	0	0	0	0
4/5/2024 21:27	10801	CHHI_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
4/5/2024 21:28	64101	REFR_T1	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
4/5/2024 21:28	10801	CHHI_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
4/5/2024 21:28	46301	ROHR_T1	63	137	74	0.2	0.29	0.09	0	0	0	0	0	0	0	0
4/5/2024 21:28	47001	HUGH_T2	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
4/5/2024 21:28	46302	ROHR_T1	2	4	2	2.65	2.08	-0.57	0.22	0.23	0	0	0	0	0	0
4/5/2024 21:29	16302	ALPA_T2	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
4/5/2024 21:29	15001	BLMO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/5/2024 21:30	67002	STHI_T2	36	57	21	0.13	0.15	0.02	0.55	0.55	0	0	0	0	0	0
4/5/2024 21:30	67001	STHI_T2	243	359	116	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/5/2024 21:30	54201	PENN_T1	316	11	-305	0.54	0.69	0.15	0	0	0	0	0	0	0	0
4/5/2024 21:30	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 21:30	10705	CATA_T2	0	0	0	0	0	0	-0.87	-0.85	1	1	0	900	900	0
4/5/2024 21:30	54205	PENN_T1	85	0	-85	0.26	0	-0.26	0	0	0	0	0	0	0	0
4/5/2024 21:30	10702	CATA_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/5/2024 21:30	54203	PENN_T1	309	18	-291	0.31	0.86	0.55	0.66	0.65	0	0	0	0	0	0
4/5/2024 21:30	40101	HUNT_T2	0	2	2	0	0	0	-0.51	-0.5	0	0	0	0	0	0
4/5/2024 21:31	67001	STHI_T2	243	359	116	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/5/2024 21:31	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 21:31	52501	PROG_T1	0	0	0	0	0	0	0.32	0.31	1	1	0	300	300	0
4/5/2024 21:31	15701	TANN_T1	2	6	4	2.5	0.92	-1.58	0	0	0	0	0	0	0	0
4/5/2024 21:31	54201	PENN_T1	316	11	-305	0.54	0.69	0.15	-1.31	0.01	0	0	0	0	0	0
4/5/2024 21:31	16301	ALPA_T1	1	8	7	0.5	0.18	-0.32	-0.4	-0.38	0	0	0	0	0	0
4/5/2024 21:31	54203	PENN_T1	309	18	-291	0.31	0.86	0.55	0	0	0	0	0	0	0	0
4/5/2024 21:31	54205	PENN_T1	85	0	-85	0.26	0	-0.26	0	0	0	0	0	0	0	0
4/5/2024 21:31	15704	TANN_T1	0	26	26	0	0	0	-1.34	-1.32	0	0	0	0	0	0
4/5/2024 21:31	67002	STHI_T2	36	57	21	0.13	0.15	0.02	0.55	0.55	0	0	0	0	0	0
4/5/2024 21:31	42701	AUGU_T1	1	1	0	0.8	0.6	-0.2	0	0	2	2	0	1800	1800	0
4/5/2024 21:32	54505	ENOL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/5/2024 21:32	27502	WEIS_T2	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
4/5/2024 21:32	15001	BLMO_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/5/2024 21:32	16302	ALPA_T2	0	0	0	0	0	0	1.25	1.28	0	0	0	0	0	0
4/5/2024 21:32	67502	WEWI_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
4/5/2024 21:32	53601	DALM_T2	0	1	1	0	1.2	1.2	0.14	0.01	0	0	0	0	0	0
4/5/2024 21:32	54504	ENOL_T2	0	0	0	0	0	0	-0.97	-0.95	1	1	0	600	600	0
4/5/2024 21:32	57401	SPAN_T1	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
4/5/2024 21:32	67002	STHI_T2	36	57	21	0.13	0.15	0.02	0.55	0.55	0	0	0	0	0	0
4/5/2024 21:32	40101	HUNT_T2	0	2	2	0	0	0	-0.51	-0.5	0	0	0	0	0	0
4/5/2024 21:32	57403	SPAN_T1	0	6	6	0	0.15	0.15	0.1	0.07	0	0	0	0	0	0
4/5/2024 21:32	64204	KINZ_T1	41	66	25	0.64	0.6	-0.04	0	0	0	0	0	0	0	0
4/5/2024 21:32	64202	KINZ_T1	43	54	11	0.51	0.65	0.14	0	0	0	0	0	0	0	0
4/5/2024 21:32	64201	KINZ_T1	31	33	2	0.48	0.63	0.15	0	0	0	0	0	0	0	0
4/5/2024 21:32	64203	KINZ_T1	149	388	239	0.4	0.4	0	0.03	0.03	0	0	0	0	0	0
4/5/2024 21:32	67001	STHI_T2	243	359	116	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/5/2024 21:32	56802	BENV_T2	24	102	78	0.15	0.25	0.1	-1.31	-1.36	0	0	0	0	0	0
4/5/2024 21:32	64902	MILL_T2	0	0	0	0	0	0	-0.73	-0.75	1	1	0	900	900	0
4/5/2024 21:33	57401	SPAN_T1	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
4/5/2024 21:33	65901	SAKR_T2	0	0	0	0	0	0	-1.44	-1.48	1	1	0	900	900	0
4/5/2024 21:33	54201	PENN_T1	316	11	-305	0.54	0.69	0.15	0	0	0	0	0	0	0	0
4/5/2024 21:33	66504	SMAN_T2	0	0	0	0	0	0	-1.09	-1.01	0	0	0	0	0	0
4/5/2024 21:33	40101	HUNT_T2	0	2	2	0	0	0	-1.02	-1	0	0	0	0	0	0
4/5/2024 21:33	54505	ENOL_T2	1	1	0	0.7	0.6	-0.1	-1.22	-1.22	1	1	0	600	600	0
4/5/2024 21:33	26401	INOR_T1	1	1	0	8.2	8.8	0.6	0.49	0.45	0	0	0	0	0	0
4/5/2024 21:33	64702	LITI_T2	0	0	0	0	0	0	-1.35	-1.29	0	0	0	0	0	0
4/5/2024 21:33	60803	BUCK_T1	19	20	1	0.29	0.44	0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/5/2024 21:33	56802	BENV_T2	24	102	78	0.15	0.25	0.1	-2.62	-2.72	0	0	0	0	0	0
4/5/2024 21:33	57403	SPAN_T1	0	6	6	0	0.15	0.15	0.1	0.07	0	0	0	0	0	0
4/5/2024 21:33	54205	PENN_T1	85	0	-85	0.26	0	-0.26	0	0	0	0	0	0	0	0
4/5/2024 21:33	54203	PENN_T1	309	18	-291	0.31	0.86	0.55	0.66	0.65	0	0	0	0	0	0
4/5/2024 21:33	67002	STHI_T2	36	57	21	0.13	0.15	0.02	0.55	0.55	0	0	0	0	0	0
4/5/2024 21:33	67001	STHI_T2	243	359	116	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/5/2024 21:33	24902	WHHA_T1	16	21	5	1.28	1.04	-0.24	0	0	0	0	0	0	0	0
4/5/2024 21:33	66505	SMAN_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/5/2024 21:33	60801	BUCK_T1	27	39	12	0.19	0.29	0.1	-0.2	-0.2	0	0	0	0	0	0
4/5/2024 21:33	66503	SMAN_T2	158	72	-86	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
4/5/2024 21:34	67001	STHI_T2	243	359	116	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/5/2024 21:34	57403	SPAN_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
4/5/2024 21:34	59201	THOM_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/5/2024 21:34	16302	ALPA_T2	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
4/5/2024 21:34	42701	AUGU_T1	1	1	0	0.8	0.6	-0.2	0	0	2	2	0	1800	1800	0
4/5/2024 21:34	52004	LING_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
4/5/2024 21:34	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 21:34	54204	PENN_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/5/2024 21:34	25402	LAHA_T2	0	1	1	0	0	0	-0.71	-0.7	0	0	0	0	0	0
4/5/2024 21:34	59202	THOM_T1	3	23	20	0.13	0.17	0.04	0	0	0	0	0	0	0	0
4/5/2024 21:34	54202	PENN_T2	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
4/5/2024 21:34	67204	TEHI_T2	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
4/5/2024 21:34	52002	LING_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/5/2024 21:34	67002	STHI_T2	36	57	21	0.13	0.15	0.02	1.65	1.65	0	0	0	0	0	0
4/5/2024 21:34	14404	SSLA_T1	1	1	0	4.5	4.8	0.3	0	0	0	0	0	0	0	0
4/5/2024 21:34	10702	CATA_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/5/2024 21:34	54206	PENN_T2	38	38	0	0.11	0.11	0	0	0	0	0	0	0	0	0
4/5/2024 21:34	14403	SSLA_T1	0	0	0	0	0	0	0.87	0.89	0	0	0	0	0	0
4/5/2024 21:34	60201	ATGL_T2	10	13	3	0.12	0.13	0.01	0.57	0.59	0	0	0	0	0	0
4/5/2024 21:34	57401	SPAN_T1	1	2	1	0.2	0.55	0.35	-0.82	-1.06	1	1	0	600	600	0
4/5/2024 21:34	16402	MOPO_T1	0	0	0	0	0	0	-0.02	0.01	0	0	0	0	0	0
4/5/2024 21:34	41802	GOCI_T2	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0	0
4/5/2024 21:34	10705	CATA_T2	0	0	0	0	0	0	-0.87	-0.85	1	1	0	900	900	0
4/5/2024 21:34	52006	LING_T2	2	3	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/5/2024 21:34	46203	DANV_T2	184	137	-47	0.57	0.56	-0.01	-0.96	-0.94	0	0	0	0	0	0
4/5/2024 21:35	53903	HALI_T2	2	2	0	0.7	1	0.3	-0.14	-0.13	0	0	0	0	0	0
4/5/2024 21:35	16301	ALPA_T1	1	8	7	0.5	0.18	-0.32	-0.8	-0.76	0	0	0	0	0	0
4/5/2024 21:35	53901	HALI_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
4/5/2024 21:35	60101	COCA_T1	0	0	0	0	0	0	0.31	0.27	0	0	0	0	0	0
4/5/2024 21:35	46302	ROHR_T1	2	6	4	3.7	1.43	-2.27	0	0	0	0	0	0	0	0
4/5/2024 21:35	53902	HALI_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
4/5/2024 21:35	67605	WARW_T1	5	14	9	0.14	0.31	0.17	-0.86	-0.87	0	0	0	0	0	0
4/5/2024 21:35	20403	ASHF_T2	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
4/5/2024 21:35	56802	BENV_T2	24	102	78	0.15	0.25	0.1	-1.31	-1.36	0	0	0	0	0	0
4/5/2024 21:35	28604	BLYT_T2	0	0	0	0	0	0	-1.42	-1.42	0	0	0	0	0	0
4/5/2024 21:35	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 21:35	46004	BERW_T2	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
4/5/2024 21:35	40101	HUNT_T2	0	2	2	0	0	0	-0.51	-0.5	0	0	0	0	0	0
4/5/2024 21:35	64101	REFR_T1	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
4/5/2024 21:35	24902	WHHA_T1	16	21	5	1.28	1.04	-0.24	0	0	0	0	0	0	0	0
4/5/2024 21:35	64702	LITI_T2	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
4/5/2024 21:35	54701	NEBL_T1	0	2	2	0	0.15	0.15	0	0	1	1	0	600	600	0
4/5/2024 21:35	46301	ROHR_T1	121	133	12	0.27	0.3	0.03	0.22	0.24	0	0	0	0	0	0
4/5/2024 21:35	46802	HEPB_T1	1	1	0	1.6	1.9	0.3	-1.23	-1.22	0	0	0	0	0	0
4/5/2024 21:36	46302	ROHR_T1	2	6	4	3.7	1.43	-2.27	0	0	0	0	0	0	0	0
4/5/2024 21:36	54203	PENN_T1	309	18	-291	0.31	0.86	0.55	0	0	0	0	0	0	0	0
4/5/2024 21:36	67605	WARW_T1	5	14	9	0.14	0.31	0.17	-0.86	-0.87	0	0	0	0	0	0
4/5/2024 21:36	60802	BUCK_T2	17	44	27	0.12	0.15	0.03	0.16	0.19	0	0	0	0	0	0
4/5/2024 21:36	45501	DERR_T2	0	0	0	0	0	0	-0.55	-0.57	2	2	0	1800	1800	0
4/5/2024 21:36	46004	BERW_T2	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
4/5/2024 21:36	62606	ENGL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/5/2024 21:36	62604	ENGL_T1	0	0	0	0	0	0	-0.51	-0.52	1	1	0	600	600	0
4/5/2024 21:36	56802	BENV_T2	24	102	78	0.15	0.25	0.1	-1.31	-1.36	0	0	0	0	0	0
4/5/2024 21:36	60801	BUCK_T1	27	39	12	0.19	0.29	0.1	0	0	0	0	0	0	0	0
4/5/2024 21:36	54201	PENN_T1	316	11	-305	0.54	0.69	0.15	-1.31	0.01	0	0	0	0	0	0
4/5/2024 21:36	57304	MOAL_T2	2	2	0	2.25	0.3	-1.95	-0.34	-0.24	0	0	0	0	0	0
4/5/2024 21:36	60803	BUCK_T1	19	20	1	0.29	0.44	0.15	-0.53	-0.51	1	1	0	600	600	0
4/5/2024 21:36	54205	PENN_T1	85	0	-85	0.26	0	-0.26	0	0	0	0	0	0	0	0
4/5/2024 21:36	46301	ROHR_T1	121	133	12	0.27	0.3	0.03	0.22	0.24	0	0	0	0	0	0
4/5/2024 21:36	67502	WEWI_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
4/5/2024 21:36	57303	MOAL_T2	1	1	0	7.4	6.9	-0.5	0	0	0	0	0	0	0	0
4/5/2024 21:37	54503	ENOL_T2	0	0	0	0	0	0	-1.19	-1.19	1	1	0	600	600	0
4/5/2024 21:37	65001	NEFF_T2	261	245	-16	0.68	0.57	-0.11	-1.26	-1.34	1	1	0	1200	1200	0
4/5/2024 21:37	52502	PROG_T2	0	0	0	0	0	0	-0.54	-0.53	1	1	0	900	900	0
4/5/2024 21:37	65003	NEFF_T2	100	2	-98	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
4/5/2024 21:37	67002	STHI_T2	36	57	21	0.13	0.15	0.02	0.55	0.55	0	0	0	0	0	0
4/5/2024 21:37	46001	BERW_T1	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
4/5/2024 21:37	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 21:37	58402	MORO_T1	0	0	0	0	0	0	-0.19	-0.21	2	2	0	1500	1500	0
4/5/2024 21:37	54201	PENN_T1	316	11	-305	0.54	0.69	0.15	0	0	0	0	0	0	0	0
4/5/2024 21:37	45501	DERR_T2	0	0	0	0	0	0	-0.55	-0.57	2	2	0	1800	1800	0
4/5/2024 21:37	46004	BERW_T2	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
4/5/2024 21:37	57401	SPAN_T1	1	2	1	0.2	0.55	0.35	-1.65	-2.13	2	2	0	1200	1200	0
4/5/2024 21:37	54203	PENN_T1	309	18	-291	0.31	0.86	0.55	0.66	0.65	0	0	0	0	0	0
4/5/2024 21:37	65901	SAKR_T2	0	0	0	0	0	0	-1.44	-1.48	1	1	0	900	900	0
4/5/2024 21:37	54205	PENN_T1	85	0	-85	0.26	0	-0.26	0	0	0	0	0	0	0	0
4/5/2024 21:37	54505	ENOL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/5/2024 21:37	11805	FRAN_T1	1	2	1	0.1	0.1	0	-1.6	-1.63	1	1	0	1200	1200	0
4/5/2024 21:37	57303	MOAL_T2	1	1	0	7.4	6.9	-0.5	0	0	0	0	0	0	0	0
4/5/2024 21:37	67203	TEHI_T1	0	0	0	0	0	0	1.08	1.02	0	0	0	0	0	0
4/5/2024 21:37	57304	MOAL_T2	2	2	0	2.25	0.3	-1.95	-0.34	-0.24	0	0	0	0	0	0
4/5/2024 21:37	65002	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/5/2024 21:37	56801	BENV_T1	14	14	0	0.64	0.9	0.26	-0.69	-0.68	1	1	0	600	600	0
4/5/2024 21:37	57403	SPAN_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
4/5/2024 21:37	63602	LETO_T1	0	0	0	0	0	0	-0.53	-0.5	0	0	0	0	0	0
4/5/2024 21:37	56802	BENV_T2	24	102	78	0.15	0.25	0.1	-2.62	-2.72	0	0	0	0	0	0
4/5/2024 21:37	16301	ALPA_T1	1	8	7	0.5	0.18	-0.32	-0.4	-0.38	0	0	0	0	0	0
4/5/2024 21:37	56803	BENV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/5/2024 21:37	42802	SELI_T1	0	1	1	0	0.2	0.2	-1.01	-1.01	1	1	0	900	900	0
4/5/2024 21:37	67201	TEHI_T1	0	23	23	0	0.15	0.15	0	0	0	0	0	0	0	0
4/5/2024 21:37	67605	WARW_T1	5	14	9	0.14	0.31	0.17	-0.86	-0.87	0	0	0	0	0	0
4/5/2024 21:37	67001	STHI_T2	243	359	116	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/5/2024 21:38	10805	CHHI_T2	7	6	-1	1.69	7.9	6.21	-0.78	-0.91	0	0	0	0	0	0
4/5/2024 21:38	64201	KINZ_T1	31	33	2	0.48	0.63	0.15	0	0	0	0	0	0	0	0
4/5/2024 21:38	56802	BENV_T2	24	102	78	0.15	0.25	0.1	-2.72	-2.79	0	0	0	0	0	0
4/5/2024 21:38	26002	WDAM_T1	2	6	4	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/5/2024 21:38	59301	MCAL_T1	3	1	-2	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
4/5/2024 21:38	67401	WAKE_T2	62	106	44	0.22	0.26	0.04	-0.89	-0.89	0	0	0	0	0	0
4/5/2024 21:38	43201	MVIL_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
4/5/2024 21:38	64202	KINZ_T1	43	54	11	0.51	0.65	0.14	0	0	0	0	0	0	0	0
4/5/2024 21:38	26001	WDAM_T1	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
4/5/2024 21:38	54501	ENOL_T2	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
4/5/2024 21:38	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 21:38	59302	MCAL_T1	1	1	0	0.2	0.3	0.1	-0.39	-0.41	1	1	0	600	600	0
4/5/2024 21:38	45501	DERR_T2	0	0	0	0	0	0	-0.57	-0.54	2	2	0	1800	1800	0
4/5/2024 21:38	64204	KINZ_T1	41	66	25	0.64	0.6	-0.04	0	0	0	0	0	0	0	0
4/5/2024 21:38	43202	MVIL_T2	72	108	36	0.4	0.43	0.03	-0.66	-0.65	0	0	0	0	0	0
4/5/2024 21:38	54503	ENOL_T2	0	0	0	0	0	0	-1.19	-1.22	1	1	0	600	600	0
4/5/2024 21:38	64203	KINZ_T1	149	388	239	0.4	0.4	0	0.03	0.03	0	0	0	0	0	0
4/5/2024 21:38	13105	NHAM_T2	0	0	0	0	0	0	-0.68	-0.7	1	1	0	1200	1200	0
4/5/2024 21:38	67002	STHI_T2	36	57	21	0.13	0.15	0.02	0.55	0.53	0	0	0	0	0	0
4/5/2024 21:38	54505	ENOL_T2	1	1	0	0.7	0.6	-0.1	-2.44	-2.48	2	2	0	1200	1200	0
4/5/2024 21:38	67001	STHI_T2	243	359	116	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/5/2024 21:39	54204	PENN_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/5/2024 21:39	64802	MONE_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/5/2024 21:39	67002	STHI_T2	36	57	21	0.13	0.15	0.02	0.55	0.53	0	0	0	0	0	0
4/5/2024 21:39	55002	NEWP_T1	6	6	0	1.05	1.22	0.17	-0.2	-0.22	0	0	0	0	0	0
4/5/2024 21:39	64801	MONE_T2	1	3	2	0.1	0.1	0	0.35	0.35	0	0	0	0	0	0
4/5/2024 21:39	60101	COCA_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
4/5/2024 21:39	42701	AUGU_T1	1	1	0	0.8	0.6	-0.2	0	0	2	2	0	1800	1800	0
4/5/2024 21:39	46001	BERW_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
4/5/2024 21:39	54206	PENN_T2	38	38	0	0.11	0.11	0	-0.08	-0.09	0	0	0	0	0	0
4/5/2024 21:39	54505	ENOL_T2	1	1	0	0.7	0.6	-0.1	-1.22	-1.24	1	1	0	600	600	0
4/5/2024 21:39	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 21:39	58402	MORO_T1	0	0	0	0	0	0	-0.21	-0.21	2	2	0	1500	1500	0
4/5/2024 21:39	67001	STHI_T2	243	359	116	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/5/2024 21:40	64201	KINZ_T1	31	33	2	0.48	0.63	0.15	0	0	0	0	0	0	0	0
4/5/2024 21:40	64204	KINZ_T1	41	66	25	0.64	0.6	-0.04	0	0	0	0	0	0	0	0
4/5/2024 21:40	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 21:40	54204	PENN_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/5/2024 21:40	57401	SPAN_T1	1	2	1	0.2	0.55	0.35	-1.06	-1.01	1	1	0	600	600	0
4/5/2024 21:40	64202	KINZ_T1	43	54	11	0.51	0.65	0.14	0.39	0.39	0	0	0	0	0	0
4/5/2024 21:40	51702	OBER_T1	2	2	0	3.4	3.5	0.1	-1.7	-1.66	2	2	0	1200	1200	0
4/5/2024 21:40	54206	PENN_T2	38	38	0	0.11	0.11	0	-0.08	-0.09	0	0	0	0	0	0
4/5/2024 21:40	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 21:40	20403	ASHF_T2	0	0	0	0	0	0	0.32	0.28	0	0	0	0	0	0
4/5/2024 21:40	16301	ALPA_T1	1	8	7	0.5	0.18	-0.32	-0.38	-0.41	0	0	0	0	0	0
4/5/2024 21:40	64203	KINZ_T1	149	388	239	0.4	0.4	0	0	0	0	0	0	0	0	0
4/5/2024 21:40	46802	HEPB_T1	1	1	0	1.6	1.9	0.3	-1.22	-1.19	0	0	0	0	0	0
4/5/2024 21:40	11804	FRAN_T1	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
4/5/2024 21:40	40902	JESH_T1	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
4/5/2024 21:40	59402	RFLD_T2	0	0	0	0	0	0	-0.85	-0.85	1	1	0	450	450	0
4/5/2024 21:40	11805	FRAN_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/5/2024 21:40	67401	WAKE_T2	62	106	44	0.22	0.26	0.04	0	0	0	0	0	0	0	0
4/5/2024 21:40	61801	EELI_T2	0	0	0	0	0	0	-0.72	-0.84	0	0	0	0	0	0
4/5/2024 21:40	55002	NEWP_T1	6	6	0	1.05	1.22	0.17	-0.4	-0.44	0	0	0	0	0	0
4/5/2024 21:40	57403	SPAN_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
4/5/2024 21:40	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
4/5/2024 21:41	64202	KINZ_T1	43	54	11	0.51	0.65	0.14	0	0	0	0	0	0	0	0
4/5/2024 21:41	64204	KINZ_T1	41	66	25	0.64	0.6	-0.04	0	0	0	0	0	0	0	0
4/5/2024 21:41	43101	SMIL_T2	1	0	-1	1.4	0	-1.4	-0.77	-0.79	0	0	0	0	0	0
4/5/2024 21:41	57403	SPAN_T1	0	6	6	0	0.15	0.15	0.07	0.12	0	0	0	0	0	0
4/5/2024 21:41	43202	MVIL_T2	72	108	36	0.4	0.43	0.03	-0.66	-0.65	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/5/2024 21:41	62606	ENGL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/5/2024 21:41	62604	ENGL_T1	0	0	0	0	0	0	-0.52	-0.5	1	1	0	600	600	0
4/5/2024 21:41	59301	MCAL_T1	3	1	-2	0.7	0.2	-0.5	-1.2	-1.16	0	0	0	0	0	0
4/5/2024 21:41	64201	KINZ_T1	31	33	2	0.48	0.63	0.15	0	0	0	0	0	0	0	0
4/5/2024 21:41	57401	SPAN_T1	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
4/5/2024 21:41	64203	KINZ_T1	149	388	239	0.4	0.4	0	0.03	0.03	0	0	0	0	0	0
4/5/2024 21:41	67502	WEWI_T2	0	0	0	0	0	0	-0.74	-0.76	0	0	0	0	0	0
4/5/2024 21:41	43103	SMIL_T2	4	4	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/5/2024 21:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 21:41	59302	MCAL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/5/2024 21:41	45402	WBLO_T2	32	46	14	0.19	0.27	0.08	-0.77	-0.75	0	0	0	0	0	0
4/5/2024 21:41	43102	SMIL_T2	4	4	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
4/5/2024 21:41	20403	ASHF_T2	0	0	0	0	0	0	0.32	0.28	0	0	0	0	0	0
4/5/2024 21:41	45501	DERR_T2	0	0	0	0	0	0	-0.57	-0.54	2	2	0	1800	1800	0
4/5/2024 21:42	40602	PIGR_T1	0	1	1	0	0	0	-0.65	-0.68	1	1	0	600	600	0
4/5/2024 21:42	67002	STHI_T2	36	57	21	0.13	0.15	0.02	0.55	0.53	0	0	0	0	0	0
4/5/2024 21:42	54204	PENN_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/5/2024 21:42	53903	HALI_T2	2	2	0	0.7	1	0.3	-0.13	-0.17	0	0	0	0	0	0
4/5/2024 21:42	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
4/5/2024 21:42	45402	WBLO_T2	32	46	14	0.19	0.27	0.08	-0.77	-0.75	0	0	0	0	0	0
4/5/2024 21:42	42903	MIDD_T2	2	2	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
4/5/2024 21:42	59101	WALK_T2	0	0	0	0	0	0	2.17	2.11	0	0	0	0	0	0
4/5/2024 21:42	54206	PENN_T2	38	38	0	0.11	0.11	0	-0.08	-0.09	0	0	0	0	0	0
4/5/2024 21:42	67001	STHI_T2	243	359	116	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/5/2024 21:42	53901	HALI_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
4/5/2024 21:42	42503	ALTA_T2	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
4/5/2024 21:42	42902	MIDD_T2	1	7	6	0.6	0.34	-0.26	-0.59	-0.62	0	0	0	0	0	0
4/5/2024 21:42	53902	HALI_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
4/5/2024 21:42	16603	PONO_T2	0	0	0	0	0	0	0.26	0.19	1	1	0	1200	1200	0
4/5/2024 21:42	55002	NEWP_T1	6	6	0	1.05	1.22	0.17	-0.4	-0.44	0	0	0	0	0	0
4/5/2024 21:42	40601	PIGR_T1	65	134	69	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/5/2024 21:42	20403	ASHF_T2	0	0	0	0	0	0	0.32	0.28	0	0	0	0	0	0
4/5/2024 21:42	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/5/2024 21:43	15103	UPHA_T2	0	0	0	0	0	0	0.39	0.44	0	0	0	0	0	0
4/5/2024 21:43	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.13	1	1	0	600	600	0
4/5/2024 21:43	52403	GRPA_T2	1	1	0	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
4/5/2024 21:43	46203	DANV_T2	184	137	-47	0.57	0.56	-0.01	-0.94	-0.94	0	0	0	0	0	0
4/5/2024 21:43	65003	NEFF_T2	100	2	-98	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
4/5/2024 21:43	26001	WDAM_T1	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
4/5/2024 21:43	60801	BUCK_T1	27	39	12	0.19	0.29	0.1	-0.2	-0.2	0	0	0	0	0	0
4/5/2024 21:43	67002	STHI_T2	36	57	21	0.13	0.15	0.02	0.55	0.53	0	0	0	0	0	0
4/5/2024 21:43	65001	NEFF_T2	261	245	-16	0.68	0.57	-0.11	-1.34	-1.29	1	1	0	1200	1200	0
4/5/2024 21:43	60101	COCA_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
4/5/2024 21:43	26002	WDAM_T1	2	6	4	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/5/2024 21:43	65002	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/5/2024 21:43	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 21:43	59101	WALK_T2	0	0	0	0	0	0	1.09	1.05	0	0	0	0	0	0
4/5/2024 21:43	52404	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/5/2024 21:43	60803	BUCK_T1	19	20	1	0.29	0.44	0.15	0	0	0	0	0	0	0	0
4/5/2024 21:43	67401	WAKE_T2	62	106	44	0.22	0.26	0.04	-0.89	-0.89	0	0	0	0	0	0
4/5/2024 21:43	45003	LIME_2	2	2	0	2.1	2.2	0.1	0	0	1	1	0	1200	1200	0
4/5/2024 21:43	45001	LIME_2	13	13	0	0.14	0.18	0.04	0	0	0	0	0	0	0	0
4/5/2024 21:43	67001	STHI_T2	243	359	116	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/5/2024 21:43	41901	REED_T1	5	8	3	0.26	0.36	0.1	0	0	0	0	0	0	0	0
4/5/2024 21:43	56802	BENV_T2	24	102	78	0.15	0.25	0.1	-1.36	-1.4	0	0	0	0	0	0
4/5/2024 21:43	52402	GRPA_T2	4	4	0	1.25	1.6	0.35	-0.77	-0.8	0	0	0	0	0	0
4/5/2024 21:43	41902	REED_T1	0	0	0	0	0	0	1.93	1.85	0	0	0	0	0	0
4/5/2024 21:44	67401	WAKE_T2	62	106	44	0.22	0.26	0.04	0	0	0	0	0	0	0	0
4/5/2024 21:44	45402	WBLO_T2	32	46	14	0.19	0.27	0.08	-0.77	-0.75	0	0	0	0	0	0
4/5/2024 21:44	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
4/5/2024 21:44	42701	AUGU_T1	1	1	0	0.8	0.6	-0.2	0	0	2	2	0	1800	1800	0
4/5/2024 21:44	64802	MONE_T2	1	2	1	0.2	0.1	-0.1	0.27	0.25	0	0	0	0	0	0
4/5/2024 21:44	45602	WOOL_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
4/5/2024 21:44	59402	RFLD_T2	0	0	0	0	0	0	-0.85	-0.85	1	1	0	450	450	0
4/5/2024 21:44	41802	GOCI_T2	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0	0
4/5/2024 21:44	54505	ENOL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/5/2024 21:44	59101	WALK_T2	0	0	0	0	0	0	1.09	1.05	0	0	0	0	0	0
4/5/2024 21:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 21:44	54503	ENOL_T2	0	0	0	0	0	0	-1.19	-1.22	1	1	0	600	600	0
4/5/2024 21:44	64801	MONE_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/5/2024 21:44	59201	THOM_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/5/2024 21:44	59202	THOM_T1	3	23	20	0.13	0.17	0.04	0	0	0	0	0	0	0	0
4/5/2024 21:44	56802	BENV_T2	24	102	78	0.15	0.25	0.1	-2.72	-2.79	0	0	0	0	0	0
4/5/2024 21:44	53903	HALI_T2	2	2	0	0.7	1	0.3	-0.13	-0.17	0	0	0	0	0	0
4/5/2024 21:44	53901	HALI_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
4/5/2024 21:44	53902	HALI_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
4/5/2024 21:45	40101	HUNT_T2	2	0	-2	0.1	0	-0.1	-0.5	-0.48	0	0	0	0	0	0
4/5/2024 21:45	62606	ENGL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/5/2024 21:45	62604	ENGL_T1	0	0	0	0	0	0	-0.52	-0.5	1	1	0	600	600	0
4/5/2024 21:45	65902	SAXR_T2	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
4/5/2024 21:45	57401	SPAN_T1	2	2	0	0.55	0.55	0	-1.06	-1.01	1	1	0	600	600	0
4/5/2024 21:45	46801	HEPB_T2	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
4/5/2024 21:45	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	-1.22	-1.24	1	1	0	600	600	0
4/5/2024 21:45	57403	SPAN_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
4/5/2024 21:46	56802	BENV_T2	74	93	19	0.17	0.25	0.08	-2.72	-2.79	0	0	0	0	0	0
4/5/2024 21:46	56801	BENV_T1	14	15	1	0.71	0.81	0.1	-0.68	-0.7	1	1	0	600	600	0
4/5/2024 21:46	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/5/2024 21:46	56803	BENV_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/5/2024 21:46	66703	STRA_T1	4	5	1	0.25	0.48	0.23	-0.26	-0.29	0	0	0	0	0	0
4/5/2024 21:47	64203	KINZ_T1	219	492	273	0.36	0.51	0.15	0.03	0.03	0	0	0	0	0	0
4/5/2024 21:47	64202	KINZ_T1	44	61	17	0.56	0.77	0.21	0	0	0	0	0	0	0	0
4/5/2024 21:47	52402	GRPA_T2	4	4	0	1.4	1.6	0.2	-0.77	-0.8	0	0	0	0	0	0
4/5/2024 21:47	52403	GRPA_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
4/5/2024 21:47	52404	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/5/2024 21:47	45702	LIND_T2	1	1	0	0.2	0.6	0.4	-0.5	-0.52	0	0	0	0	0	0
4/5/2024 21:47	64204	KINZ_T1	40	215	175	0.59	0.37	-0.22	0	0	0	0	0	0	0	0
4/5/2024 21:47	64201	KINZ_T1	32	39	7	0.46	0.66	0.2	0	0	0	0	0	0	0	0
4/5/2024 21:47	56802	BENV_T2	74	93	19	0.17	0.25	0.08	-1.36	-1.4	0	0	0	0	0	0
4/5/2024 21:48	43103	SMIL_T2	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0	0
4/5/2024 21:48	67201	TEHI_T1	0	23	23	0	0.15	0.15	0.08	0.02	0	0	0	0	0	0
4/5/2024 21:48	62606	ENGL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/5/2024 21:48	43102	SMIL_T2	4	4	0	0.28	0.48	0.2	0	0	0	0	0	0	0	0
4/5/2024 21:48	46203	DANV_T2	127	207	80	0.54	0.6	0.06	-0.94	-0.94	0	0	0	0	0	0
4/5/2024 21:48	43104	SMIL_T2	0	1	1	0	0	0	-0.74	-0.78	1	1	0	300	300	0
4/5/2024 21:48	62604	ENGL_T1	0	0	0	0	0	0	-0.52	-0.5	1	1	0	600	600	0
4/5/2024 21:49	42802	SELI_T1	0	1	1	0	0.2	0.2	-1.01	-1.02	1	1	0	900	900	0
4/5/2024 21:49	41901	REED_T1	8	8	0	0.33	0.35	0.02	0	0	0	0	0	0	0	0
4/5/2024 21:49	59402	RFLD_T2	0	0	0	0	0	0	-0.85	-0.85	1	1	0	450	450	0
4/5/2024 21:49	41902	REED_T1	0	0	0	0	0	0	0.96	0.92	0	0	0	0	0	0
4/5/2024 21:50	59101	WALK_T2	0	0	0	0	0	0	1.09	1.05	0	0	0	0	0	0
4/5/2024 21:51	45001	LIME_2	13	0	-13	0.18	0	-0.18	0	0	0	0	0	0	0	0
4/5/2024 21:51	45003	LIME_2	2	1	-1	2.2	4	1.8	0	0	1	1	0	1200	1200	0
4/5/2024 21:52	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 21:58	53902	HALI_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
4/5/2024 21:58	53901	HALI_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/5/2024 21:58	53903	HALI_T2	2	2	0	0.9	1	0.1	-0.17	-0.18	0	0	0	0	0	0
4/5/2024 21:59	57401	SPAN_T1	2	2	0	0.55	0.55	0	-1.01	-0.87	1	1	0	600	600	0
4/5/2024 21:59	57403	SPAN_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
4/5/2024 22:49	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/5/2024 23:12	46302	ROHR_T1	4	4	0	1.88	2.03	0.15	0.2	0.19	0	0	0	0	0	0
4/5/2024 23:12	46301	ROHR_T1	25	0	-25	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/5/2024 23:36	56501	ROCK_T2	0	2	2	0	0.15	0.15	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 7:56	26001	WDAM_T1	43	13	-30	0.58	0.43	-0.15	-0.65	-0.63	0	0	0	0	0	0
4/6/2024 7:56	26002	WDAM_T1	2	2	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
4/6/2024 7:58	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
4/6/2024 8:00	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
4/6/2024 8:08	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 8:08	40502	CRES_T2	0	10	10	0	0.19	0.19	-0.26	-0.24	0	0	0	0	0	0
4/6/2024 8:10	40502	CRES_T2	0	10	10	0	0.19	0.19	-0.26	-0.24	0	0	0	0	0	0
4/6/2024 8:10	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 8:14	24902	WHHA_T1	19	17	-2	0.82	1.03	0.21	0	0	0	0	0	0	0	0
4/6/2024 8:28	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.86	-0.87	0	0	0	0	0	0
4/6/2024 8:33	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 8:33	67605	WARW_T1	1	3	2	0.1	0.23	0.13	-0.86	-0.87	0	0	0	0	0	0
4/6/2024 8:34	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 8:35	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 8:36	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 8:39	53601	DALM_T2	0	1	1	0	1	1	0.36	-0.17	0	0	0	0	0	0
4/6/2024 8:39	59101	WALK_T2	0	0	0	0	0	0	1.13	1.05	0	0	0	0	0	0
4/6/2024 8:58	67605	WARW_T1	1	3	2	0.1	0.23	0.13	-0.88	-0.9	0	0	0	0	0	0
4/6/2024 8:59	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 9:02	60201	ATGL_T2	1	2	1	0.3	0	-0.3	0.59	0.56	0	0	0	0	0	0
4/6/2024 9:03	67605	WARW_T1	3	2	-1	0.23	0.25	0.02	-0.88	-0.9	0	0	0	0	0	0
4/6/2024 9:07	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
4/6/2024 9:11	10801	CHHI_T1	0	0	0	0	0	0	-1.51	-1.49	2	2	0	1500	1500	0
4/6/2024 9:12	25402	LAHA_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
4/6/2024 9:20	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 9:22	41902	REED_T1	0	12	12	0	0.95	0.95	2.99	2.94	0	0	0	0	0	0
4/6/2024 9:27	52403	GRPA_T2	8	5	-3	0.44	0.55	0.11	0	0	0	0	0	0	0	0
4/6/2024 9:27	52402	GRPA_T2	1	1	0	2.1	2	-0.1	-0.99	-1	0	0	0	0	0	0
4/6/2024 9:29	24902	WHHA_T1	16	86	70	1.05	0.76	-0.29	0	0	0	0	0	0	0	0
4/6/2024 9:31	52403	GRPA_T2	3	11	8	0.43	0.58	0.15	0	0	0	0	0	0	0	0
4/6/2024 9:31	64201	KINZ_T1	6	7	1	0.65	0.57	-0.08	0	0	0	0	0	0	0	0
4/6/2024 9:31	52402	GRPA_T2	1	1	0	1.9	2	0.1	-0.99	-1	0	0	0	0	0	0
4/6/2024 9:31	64204	KINZ_T1	22	21	-1	0.3	0.31	0.01	0	0	0	0	0	0	0	0
4/6/2024 9:31	64202	KINZ_T1	14	15	1	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
4/6/2024 9:31	64203	KINZ_T1	40	43	3	0.22	0.24	0.02	0.08	0.06	0	0	0	0	0	0
4/6/2024 9:32	64204	KINZ_T1	22	21	-1	0.3	0.31	0.01	0	0	0	0	0	0	0	0
4/6/2024 9:32	41902	REED_T1	11	6	-5	0.72	1.06	0.34	1.96	1.97	0	0	0	0	0	0
4/6/2024 9:32	64202	KINZ_T1	14	15	1	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
4/6/2024 9:32	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 9:32	64201	KINZ_T1	6	7	1	0.65	0.57	-0.08	0	0	0	0	0	0	0	0
4/6/2024 9:32	64203	KINZ_T1	40	43	3	0.22	0.24	0.02	0.23	0.18	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/6/2024 9:37	41902	REED_T1	11	6	-5	0.72	1.06	0.34	0.98	0.98	0	0	0	0	0	0
4/6/2024 9:37	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 9:40	67401	WAKE_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/6/2024 9:40	67402	WAKE_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
4/6/2024 9:41	46203	DANV_T2	0	0	0	0	0	0	-2.24	-2.22	0	0	0	0	0	0
4/6/2024 9:41	46206	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 9:42	46206	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 9:42	46203	DANV_T2	0	0	0	0	0	0	-2.24	-2.22	0	0	0	0	0	0
4/6/2024 9:42	10801	CHHI_T1	0	1	1	0	0.1	0.1	-1.53	-1.55	2	2	0	1500	1500	0
4/6/2024 9:47	43201	MVIL_T2	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
4/6/2024 9:51	67901	WNHO_T2	32	36	4	0.22	0.26	0.04	-0.47	-0.51	0	0	0	0	0	0
4/6/2024 9:53	46203	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/6/2024 9:53	46206	DANV_T2	1	1	0	0.3	0	-0.3	1.91	2	1	1	0	1200	1200	0
4/6/2024 9:54	40201	BEGA_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
4/6/2024 9:54	60803	BUCK_T1	4	3	-1	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
4/6/2024 9:54	60801	BUCK_T1	1	0	-1	0.2	0	-0.2	-0.18	-0.16	0	0	0	0	0	0
4/6/2024 9:55	46203	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/6/2024 9:55	46206	DANV_T2	1	1	0	0.3	0	-0.3	3.82	4	2	2	0	2400	2400	0
4/6/2024 9:56	45501	DERR_T2	0	0	0	0	0	0	-0.57	-0.57	2	2	0	1800	1800	0
4/6/2024 9:56	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 9:57	40201	BEGA_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
4/6/2024 9:57	67605	WARW_T1	1	3	2	0.1	0.23	0.13	-0.88	-0.88	0	0	0	0	0	0
4/6/2024 9:58	40101	HUNT_T2	1	3	2	0.3	0	-0.3	-1.14	-1.17	0	0	0	0	0	0
4/6/2024 9:59	63401	HONY_T1	0	0	0	0	0	0	0.7	0.76	0	0	0	0	0	0
4/6/2024 9:59	40101	HUNT_T2	1	3	2	0.3	0	-0.3	-0.57	-0.58	0	0	0	0	0	0
4/6/2024 10:00	45502	DERR_T2	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
4/6/2024 10:00	57401	SPAN_T1	0	0	0	0	0	0	-1.18	-1.14	1	1	0	600	600	0
4/6/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.5	-0.53	1	1	0	600	600	0
4/6/2024 10:00	57303	MOAL_T2	1	1	0	7.6	7.3	-0.3	0	0	0	0	0	0	0	0
4/6/2024 10:00	53903	HALI_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
4/6/2024 10:00	40101	HUNT_T2	3	0	-3	0.33	0	-0.33	-2.29	-2.34	0	0	0	0	0	0
4/6/2024 10:00	53902	HALI_T2	1	1	0	5	5.4	0.4	0	0	0	0	0	0	0	0
4/6/2024 10:00	67401	WAKE_T2	2	2	0	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
4/6/2024 10:00	10801	CHHI_T1	1	3	2	0.1	0.23	0.13	-3.1	-3.12	4	4	0	3000	3000	0
4/6/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-1.41	-1.37	1	1	0	900	900	0
4/6/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	-0.18	-0.16	0	0	0	0	0	0
4/6/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	-0.57	-0.57	2	2	0	1800	1800	0
4/6/2024 10:00	29402	BELT_T1	1	1	0	6.9	6.7	-0.2	0	0	0	0	0	0	0	0
4/6/2024 10:00	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
4/6/2024 10:00	24102	EHAZ_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
4/6/2024 10:00	57304	MOAL_T2	0	2	2	0	0.1	0.1	-0.45	-0.49	0	0	0	0	0	0
4/6/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.49	-0.5	2	2	0	1500	1500	0
4/6/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.29	0.35	0	0	0	0	0	0
4/6/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.97	0.9	0	0	0	0	0	0
4/6/2024 10:00	67901	WNHO_T2	28	37	9	0.21	0.25	0.04	-0.51	-0.45	0	0	0	0	0	0
4/6/2024 10:00	25603	ARRO_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
4/6/2024 10:00	58401	MORO_T1	0	0	0	0	0	0	-1.15	-1.16	1	1	0	600	600	0
4/6/2024 10:00	60101	COCA_T1	1	1	0	0.5	0.6	0.1	0.29	0.36	0	0	0	0	0	0
4/6/2024 10:00	48302	ORWI_T2	2	2	0	0.9	1.05	0.15	0.04	0.03	0	0	0	0	0	0
4/6/2024 10:00	39601	LNFD_T1	1	0	-1	0.8	0	-0.8	0	0	1	1	0	900	900	0
4/6/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
4/6/2024 10:00	41902	REED_T1	6	6	0	1.25	0.84	-0.41	2.82	2.76	0	0	0	0	0	0
4/6/2024 10:00	12502	MITR_T2	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
4/6/2024 10:00	24105	EHAZ_T1	4	4	0	6.15	5.98	-0.17	-1.94	-1.95	1	1	0	1200	1200	0
4/6/2024 10:00	46206	DANV_T2	1	1	0	0.6	0	-0.6	1.91	2	1	1	0	1200	1200	0
4/6/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
4/6/2024 10:00	62607	ENGL_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/6/2024 10:00	46203	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/6/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	-0.77	-0.83	0	0	0	0	0	0
4/6/2024 10:00	59302	MCAL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/6/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
4/6/2024 10:00	53901	HALI_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
4/6/2024 10:00	59301	MCAL_T1	3	3	0	0.17	0.37	0.2	-1.66	-1.81	1	1	0	600	600	0
4/6/2024 10:00	60701	BREC_T1	0	1	1	0	0.1	0.1	-0.5	-0.51	1	1	0	600	600	0
4/6/2024 10:00	41901	REED_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/6/2024 10:00	60803	BUCK_T1	3	4	1	0.13	0.18	0.05	0	0	0	0	0	0	0	0
4/6/2024 10:00	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.81	-0.81	1	1	0	1200	1200	0
4/6/2024 10:00	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 10:00	12505	MITR_T2	0	0	0	0	0	0	0.24	0.18	0	0	0	0	0	0
4/6/2024 10:03	13704	SCHN_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
4/6/2024 10:06	52001	LING_T1	0	0	0	0	0	0	-1.02	-1.01	0	0	0	0	0	0
4/6/2024 10:06	63803	HEMP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/6/2024 10:06	63801	HEMP_T1	2	5	3	0.1	0.26	0.16	-0.33	-0.34	0	0	0	0	0	0
4/6/2024 10:06	63804	HEMP_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
4/6/2024 10:07	58803	COCO_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
4/6/2024 10:07	46001	BERW_T1	0	0	0	0	0	0	0.57	0.52	0	0	0	0	0	0
4/6/2024 10:07	60801	BUCK_T1	0	0	0	0	0	0	-0.18	-0.16	0	0	0	0	0	0
4/6/2024 10:07	60803	BUCK_T1	3	4	1	0.13	0.18	0.05	0	0	0	0	0	0	0	0
4/6/2024 10:07	57106	SPHI_T2	3	3	0	1.53	1.57	0.04	0	0	0	0	0	0	0	0
4/6/2024 10:07	42903	MIDD_T2	2	18	16	2.45	0.48	-1.97	0.27	0.05	0	0	0	0	0	0
4/6/2024 10:07	40902	JESH_T1	0	0	0	0	0	0	-1.6	-1.58	1	1	0	600	600	0
4/6/2024 10:07	42901	MIDD_T2	24	66	42	0.14	0.18	0.04	0	0	0	0	0	0	0	0
4/6/2024 10:07	67603	WARW_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
4/6/2024 10:07	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 10:07	58003	WCAR_T1	1	1	0	0.4	0.3	-0.1	-0.17	-0.18	1	1	0	600	600	0
4/6/2024 10:07	57401	SPAN_T1	0	0	0	0	0	0	-1.18	-1.14	1	1	0	600	600	0
4/6/2024 10:07	57304	MOAL_T2	0	2	2	0	0.1	0.1	-0.45	-0.49	0	0	0	0	0	0
4/6/2024 10:07	57104	SPHI_T2	0	0	0	0	0	0	-1.15	-1.16	0	0	0	0	0	0
4/6/2024 10:07	45902	AUBU_T1	1	2	1	0.1	0.5	0.4	-0.93	-0.97	1	1	0	600	600	0
4/6/2024 10:07	56802	BENV_T2	0	0	0	0	0	0	-1.39	-1.38	0	0	0	0	0	0
4/6/2024 10:07	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 10:07	67002	STHI_T2	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
4/6/2024 10:07	42902	MIDD_T2	17	28	11	0.21	0.29	0.08	0	0	0	0	0	0	0	0
4/6/2024 10:07	57303	MOAL_T2	1	1	0	7.6	7.3	-0.3	0	0	0	0	0	0	0	0
4/6/2024 10:07	57101	SPHI_T2	4	6	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/6/2024 10:07	40901	JESH_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
4/6/2024 10:07	40502	CRES_T2	0	1	1	0	0.1	0.1	-0.22	-0.23	0	0	0	0	0	0
4/6/2024 10:07	58001	WCAR_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
4/6/2024 10:07	67605	WARW_T1	3	2	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/6/2024 10:08	20401	ASHF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/6/2024 10:08	46004	BERW_T2	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
4/6/2024 10:08	42302	MOWR_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
4/6/2024 10:08	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 10:08	65702	RVIL_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
4/6/2024 10:08	53601	DALM_T2	0	1	1	0	0.8	0.8	0.19	0.21	0	0	0	0	0	0
4/6/2024 10:08	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
4/6/2024 10:08	45602	WOOL_T1	0	0	0	0	0	0	0.84	0.84	0	0	0	0	0	0
4/6/2024 10:08	57401	SPAN_T1	0	0	0	0	0	0	-2.28	-2.3	2	2	0	1200	1200	0
4/6/2024 10:08	42301	MOWR_T2	1	1	0	4.3	4.3	0	0	0	0	0	0	0	0	0
4/6/2024 10:08	20403	ASHF_T2	0	3	3	0	0.23	0.23	0.69	0.69	0	0	0	0	0	0
4/6/2024 10:08	56802	BENV_T2	0	0	0	0	0	0	-1.38	-1.38	0	0	0	0	0	0
4/6/2024 10:09	40201	BEGA_T2	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
4/6/2024 10:09	60803	BUCK_T1	3	4	1	0.13	0.18	0.05	0	0	0	0	0	0	0	0
4/6/2024 10:09	60801	BUCK_T1	0	0	0	0	0	0	-0.16	-0.12	0	0	0	0	0	0
4/6/2024 10:09	56802	BENV_T2	0	0	0	0	0	0	-1.38	-1.38	0	0	0	0	0	0
4/6/2024 10:10	59101	WALK_T2	0	0	0	0	0	0	1.36	1.45	0	0	0	0	0	0
4/6/2024 10:10	61801	EELI_T2	0	0	0	0	0	0	-0.89	-0.87	1	1	0	600	600	0
4/6/2024 10:11	20401	ASHF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/6/2024 10:11	45502	DERR_T2	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
4/6/2024 10:11	46206	DANV_T2	1	1	0	0.6	0	-0.6	2	2	1	1	0	1200	1200	0
4/6/2024 10:11	20403	ASHF_T2	0	3	3	0	0.23	0.23	0.69	0.69	0	0	0	0	0	0
4/6/2024 10:11	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 10:11	46203	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/6/2024 10:11	45501	DERR_T2	0	0	0	0	0	0	-0.57	-0.54	2	2	0	1800	1800	0
4/6/2024 10:12	46203	DANV_T2	0	1	1	0	0.2	0.2	-2.24	-2.27	0	0	0	0	0	0
4/6/2024 10:12	46206	DANV_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/6/2024 10:13	40901	JESH_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
4/6/2024 10:13	40902	JESH_T1	0	0	0	0	0	0	-1.58	-1.65	1	1	0	600	600	0
4/6/2024 10:14	46206	DANV_T2	1	1	0	0.6	0	-0.6	2	2	1	1	0	1200	1200	0
4/6/2024 10:14	56802	BENV_T2	0	0	0	0	0	0	-1.38	-1.38	0	0	0	0	0	0
4/6/2024 10:14	24902	WHHA_T1	72	102	30	0.9	0.93	0.03	0	0	0	0	0	0	0	0
4/6/2024 10:14	46203	DANV_T2	0	1	1	0	0.2	0.2	-2.24	-2.27	0	0	0	0	0	0
4/6/2024 10:14	10801	CHHI_T1	1	3	2	0.1	0.23	0.13	-1.56	-1.58	2	2	0	1500	1500	0
4/6/2024 10:15	63401	HONY_T1	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
4/6/2024 10:15	60201	ATGL_T2	2	1	-1	0.15	0.1	-0.05	0.54	0.56	0	0	0	0	0	0
4/6/2024 10:15	52403	GRPA_T2	6	2	-4	0.25	0.2	-0.05	0	-0.02	0	0	0	0	0	0
4/6/2024 10:15	52402	GRPA_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
4/6/2024 10:16	25402	LAHA_T2	1	0	-1	0.2	0	-0.2	-0.59	-0.58	0	0	0	0	0	0
4/6/2024 10:16	55001	NEWP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/6/2024 10:16	24902	WHHA_T1	91	100	9	0.95	0.77	-0.18	0	0	0	0	0	0	0	0
4/6/2024 10:16	55002	NEWP_T1	2	6	4	0.6	0.4	-0.2	-0.22	-0.19	0	0	0	0	0	0
4/6/2024 10:17	65005	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/6/2024 10:17	65001	NEFF_T2	20	184	164	0.13	0.2	0.07	-1.12	-1.14	1	1	0	1200	1200	0
4/6/2024 10:17	65003	NEFF_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/6/2024 10:18	55001	NEWP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/6/2024 10:18	55002	NEWP_T1	2	6	4	0.6	0.4	-0.2	-0.44	-0.38	0	0	0	0	0	0
4/6/2024 10:19	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 10:20	57401	SPAN_T1	0	0	0	0	0	0	-1.14	-1.15	1	1	0	600	600	0
4/6/2024 10:21	13704	SCHN_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
4/6/2024 10:21	65804	RTWN_T1	0	3	3	0	0.73	0.73	-0.27	-0.34	1	1	0	600	600	0
4/6/2024 10:21	67204	TEHI_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
4/6/2024 10:22	57401	SPAN_T1	0	0	0	0	0	0	-1.14	-1.15	1	1	0	600	600	0
4/6/2024 10:23	65804	RTWN_T1	0	3	3	0	0.73	0.73	-0.34	-0.32	1	1	0	600	600	0
4/6/2024 10:24	67201	TEHI_T1	116	104	-12	1.16	0.87	-0.29	-0.02	-0.12	0	0	0	0	0	0
4/6/2024 10:24	67203	TEHI_T1	1	2	1	2.9	0	-2.9	0	0	0	0	0	0	0	0
4/6/2024 10:24	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 10:24	46203	DANV_T2	1	2	1	0.2	0.35	0.15	-2.27	-2.3	0	0	0	0	0	0
4/6/2024 10:26	67605	WARW_T1	2	0	-2	0.3	0	-0.3	-0.88	-0.85	0	0	0	0	0	0
4/6/2024 10:26	67401	WAKE_T2	2	4	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/6/2024 10:26	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
4/6/2024 10:28	63804	HEMP_T1	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
4/6/2024 10:28	52402	GRPA_T2	1	1	0	1.2	1.2	0	-0.99	-0.99	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/6/2024 10:28	63801	HEMP_T1	1	11	10	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/6/2024 10:28	63802	HEMP_T1	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
4/6/2024 10:28	67605	WARW_T1	2	0	-2	0.3	0	-0.3	-0.88	-0.85	0	0	0	0	0	0
4/6/2024 10:28	67605	WARW_T1	2	0	-2	0.3	0	-0.3	-0.88	-0.85	0	0	0	0	0	0
4/6/2024 10:28	67605	WARW_T1	2	0	-2	0.3	0	-0.3	-0.88	-0.85	0	0	0	0	0	0
4/6/2024 10:28	67605	WARW_T1	2	0	-2	0.3	0	-0.3	-0.88	-0.85	0	0	0	0	0	0
4/6/2024 10:28	52403	GRPA_T2	6	2	-4	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/6/2024 10:28	63803	HEMP_T1	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
4/6/2024 10:29	63803	HEMP_T1	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
4/6/2024 10:29	11804	FRAN_T1	0	1	1	0	0.7	0.7	0.49	0.45	0	0	0	0	0	0
4/6/2024 10:29	63804	HEMP_T1	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
4/6/2024 10:29	64204	KINZ_T1	1	2	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/6/2024 10:29	63801	HEMP_T1	1	11	10	0.4	0.3	-0.1	-0.26	-0.17	0	0	0	0	0	0
4/6/2024 10:29	64201	KINZ_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
4/6/2024 10:29	64203	KINZ_T1	0	0	0	0	0	0	0.17	0.04	0	0	0	0	0	0
4/6/2024 10:30	63804	HEMP_T1	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
4/6/2024 10:30	64203	KINZ_T1	0	3	3	0	0.1	0.1	0.17	0.04	0	0	0	0	0	0
4/6/2024 10:30	64204	KINZ_T1	2	3	1	0.55	0.6	0.05	0	0	0	0	0	0	0	0
4/6/2024 10:30	64201	KINZ_T1	2	5	3	0.1	0.36	0.26	0	0	0	0	0	0	0	0
4/6/2024 10:30	63802	HEMP_T1	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
4/6/2024 10:30	65003	NEFF_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/6/2024 10:30	52402	GRPA_T2	1	1	0	1	1.4	0.4	-0.99	-0.99	0	0	0	0	0	0
4/6/2024 10:30	52403	GRPA_T2	1	9	8	0.2	0.75	0.55	0	0	0	0	0	0	0	0
4/6/2024 10:30	63801	HEMP_T1	5	12	7	0.26	0.31	0.05	0	0	0	0	0	0	0	0
4/6/2024 10:30	65001	NEFF_T2	184	40	-144	0.2	0.13	-0.07	-1.14	-1.18	1	1	0	1200	1200	0
4/6/2024 10:30	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 10:30	64202	KINZ_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/6/2024 10:30	63803	HEMP_T1	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
4/6/2024 10:31	16402	MOPO_T1	0	1	1	0	0	0	0.06	0.05	0	0	0	0	0	0
4/6/2024 10:34	64202	KINZ_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/6/2024 10:34	64203	KINZ_T1	0	3	3	0	0.1	0.1	0.17	0.04	0	0	0	0	0	0
4/6/2024 10:34	64201	KINZ_T1	2	5	3	0.1	0.36	0.26	0	0	0	0	0	0	0	0
4/6/2024 10:34	64204	KINZ_T1	2	3	1	0.55	0.6	0.05	0	0	0	0	0	0	0	0
4/6/2024 10:34	43201	MVIL_T2	1	1	0	0.1	0.2	0.1	-0.37	-0.38	0	0	0	0	0	0
4/6/2024 10:35	64204	KINZ_T1	2	3	1	0.55	0.6	0.05	0	0	0	0	0	0	0	0
4/6/2024 10:35	64202	KINZ_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/6/2024 10:35	64201	KINZ_T1	2	5	3	0.1	0.36	0.26	0	0	0	0	0	0	0	0
4/6/2024 10:35	64203	KINZ_T1	0	3	3	0	0.1	0.1	0.17	0.04	0	0	0	0	0	0
4/6/2024 10:36	65802	RTWN_T2	1	3	2	0.8	0.37	-0.43	-0.49	-0.5	0	0	0	0	0	0
4/6/2024 10:36	65803	RTWN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/6/2024 10:36	45402	WBLO_T2	1	2	1	0.3	0.5	0.2	-1.62	-1.59	1	1	0	900	900	0
4/6/2024 10:37	60801	BUCK_T1	0	14	14	0	0.13	0.13	0	0	0	0	0	0	0	0
4/6/2024 10:37	60803	BUCK_T1	4	8	4	0.18	0.21	0.03	-0.48	-0.49	1	1	0	600	600	0
4/6/2024 10:38	44302	BEAV_T2	84	61	-23	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
4/6/2024 10:38	20401	ASHF_T2	1	0	-1	0.5	0	-0.5	-1.28	-1.31	0	0	0	0	0	0
4/6/2024 10:38	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 10:38	59102	WALK_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/6/2024 10:38	20403	ASHF_T2	3	3	0	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
4/6/2024 10:38	59101	WALK_T2	0	0	0	0	0	0	0.99	1.41	0	0	0	0	0	0
4/6/2024 10:38	44301	BEAV_T2	2	2	0	0.7	0.45	-0.25	-0.43	-0.44	0	0	0	0	0	0
4/6/2024 10:39	65003	NEFF_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/6/2024 10:39	20401	ASHF_T2	1	0	-1	0.5	0	-0.5	-1.28	-1.31	0	0	0	0	0	0
4/6/2024 10:39	60801	BUCK_T1	0	14	14	0	0.13	0.13	0	0	0	0	0	0	0	0
4/6/2024 10:39	60803	BUCK_T1	4	8	4	0.18	0.21	0.03	-0.49	-0.48	1	1	0	600	600	0
4/6/2024 10:39	65001	NEFF_T2	184	40	-144	0.2	0.13	-0.07	-1.18	-1.19	1	1	0	1200	1200	0
4/6/2024 10:39	45402	WBLO_T2	1	2	1	0.3	0.5	0.2	-1.59	-1.6	1	1	0	900	900	0
4/6/2024 10:39	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 10:39	20403	ASHF_T2	3	3	0	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
4/6/2024 10:40	10805	CHHI_T2	1	13	12	8.1	2.47	-5.63	-2.11	-2.16	0	0	0	0	0	0
4/6/2024 10:42	10805	CHHI_T2	1	13	12	8.1	2.47	-5.63	-1.06	-1.08	0	0	0	0	0	0
4/6/2024 10:42	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 10:43	46801	HEPB_T2	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
4/6/2024 10:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 10:44	63602	LETO_T1	0	0	0	0	0	0	-1.03	-1.14	1	1	0	600	600	0
4/6/2024 10:45	40101	HUNT_T2	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
4/6/2024 10:45	53903	HALI_T2	1	3	2	0.1	0.73	0.63	-0.37	-0.37	0	0	0	0	0	0
4/6/2024 10:45	53902	HALI_T2	1	1	0	4.5	5.2	0.7	0	0	0	0	0	0	0	0
4/6/2024 10:45	53901	HALI_T2	1	2	1	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
4/6/2024 10:47	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 10:49	42901	MIDD_T2	22	50	28	0.15	0.15	0	0	0	0	0	0	0	0	0
4/6/2024 10:49	42903	MIDD_T2	2	7	5	2.4	0.77	-1.63	0	0	0	0	0	0	0	0
4/6/2024 10:49	42902	MIDD_T2	13	19	6	0.22	0.24	0.02	-0.6	-0.58	0	0	0	0	0	0
4/6/2024 10:50	65901	SAKR_T2	1	1	0	8.2	7.9	-0.3	-1.25	-1.19	1	1	0	900	900	0
4/6/2024 10:51	67401	WAKE_T2	4	10	6	0.2	0.18	-0.02	-1.7	-1.6	0	0	0	0	0	0
4/6/2024 10:52	67502	WEWI_T2	1	0	-1	0.3	0	-0.3	-1.4	-1.38	1	1	0	900	900	0
4/6/2024 10:52	64101	REFR_T1	1	1	0	0.1	0.1	0	-0.77	-0.79	0	0	0	0	0	0
4/6/2024 10:53	65901	SAKR_T2	1	1	0	8.2	7.9	-0.3	-1.19	-1.21	1	1	0	900	900	0
4/6/2024 10:53	64101	REFR_T1	1	1	0	0.1	0.1	0	-0.79	-0.78	0	0	0	0	0	0
4/6/2024 10:54	67502	WEWI_T2	1	0	-1	0.3	0	-0.3	-1.38	-1.38	1	1	0	900	900	0
4/6/2024 10:55	60101	COCA_T1	1	0	-1	0.4	0	-0.4	0.31	0.39	0	0	0	0	0	0
4/6/2024 10:56	66504	SMAN_T2	0	0	0	0	0	0	-0.95	-0.98	0	0	0	0	0	0
4/6/2024 10:56	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 10:57	45501	DERR_T2	0	4	4	0	0.33	0.33	-0.75	-0.82	2	2	0	1800	1800	0
4/6/2024 10:58	52004	LING_T2	1	1	0	0.1	0.4	0.3	-0.13	-0.09	0	0	0	0	0	0
4/6/2024 10:59	27101	GELD_T2	1	1	0	0.5	0	-0.5	0.12	0.13	0	0	0	0	0	0
4/6/2024 11:00	52401	GRPA_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/6/2024 11:00	52402	GRPA_T2	1	2	1	1.4	1.35	-0.05	0	0	0	0	0	0	0	0
4/6/2024 11:00	52403	GRPA_T2	9	7	-2	0.61	0.2	-0.41	0.01	-0.05	0	0	0	0	0	0
4/6/2024 11:00	64303	LINC_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
4/6/2024 11:00	60101	COCA_T1	0	0	0	0	0	0	0.31	0.39	0	0	0	0	0	0
4/6/2024 11:01	64203	KINZ_T1	3	35	32	0.1	0.25	0.15	0.07	0.08	0	0	0	0	0	0
4/6/2024 11:01	64202	KINZ_T1	3	12	9	0.13	0.26	0.13	0	0	0	0	0	0	0	0
4/6/2024 11:01	64201	KINZ_T1	5	5	0	0.36	0.52	0.16	0	0	0	0	0	0	0	0
4/6/2024 11:01	64204	KINZ_T1	3	24	21	0.6	0.26	-0.34	0	0	0	0	0	0	0	0
4/6/2024 11:01	66302	MCGO_T2	0	1	1	0	1.2	1.2	-1.22	-1.2	1	1	0	600	600	0
4/6/2024 11:01	53903	HALI_T2	3	2	-1	0.73	1	0.27	-0.12	-0.12	0	0	0	0	0	0
4/6/2024 11:01	53901	HALI_T2	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
4/6/2024 11:01	53902	HALI_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
4/6/2024 11:01	66303	MCGO_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/6/2024 11:02	64201	KINZ_T1	5	5	0	0.36	0.52	0.16	0	0	0	0	0	0	0	0
4/6/2024 11:02	64203	KINZ_T1	3	35	32	0.1	0.25	0.15	0.07	0.08	0	0	0	0	0	0
4/6/2024 11:02	64204	KINZ_T1	3	24	21	0.6	0.26	-0.34	0	0	0	0	0	0	0	0
4/6/2024 11:02	40101	HUNT_T2	0	0	0	0	0	0	-0.53	-0.57	0	0	0	0	0	0
4/6/2024 11:02	64202	KINZ_T1	3	12	9	0.13	0.26	0.13	0	0	0	0	0	0	0	0
4/6/2024 11:03	65901	SAKR_T2	1	1	0	7.9	7.9	0	-1.19	-1.21	1	1	0	900	900	0
4/6/2024 11:04	63801	HEMP_T1	10	4	-6	0.26	0.45	0.19	-0.31	-0.34	0	0	0	0	0	0
4/6/2024 11:04	63803	HEMP_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/6/2024 11:04	64305	LINC_T1	0	0	0	0	0	0	-0.58	-0.64	0	0	0	0	0	0
4/6/2024 11:04	63804	HEMP_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
4/6/2024 11:05	44601	SALE_T2	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
4/6/2024 11:05	52501	PROG_T1	0	0	0	0	0	0	0.34	0.31	1	1	0	300	300	0
4/6/2024 11:06	27502	WEIS_T2	0	0	0	0	0	0	-0.51	-0.58	0	0	0	0	0	0
4/6/2024 11:06	65802	RTWN_T2	1	1	0	0.1	0.2	0.1	-0.47	-0.49	0	0	0	0	0	0
4/6/2024 11:07	56802	BENV_T2	0	0	0	0	0	0	-1.36	-1.35	0	0	0	0	0	0
4/6/2024 11:08	44601	SALE_T2	0	0	0	0	0	0	-0.1	-0.05	0	0	0	0	0	0
4/6/2024 11:09	64305	LINC_T1	0	0	0	0	0	0	-0.64	-0.7	0	0	0	0	0	0
4/6/2024 11:09	66703	STRA_T1	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
4/6/2024 11:09	61801	EELI_T2	0	0	0	0	0	0	-1.78	-1.74	2	2	0	1200	1200	0
4/6/2024 11:09	45501	DERR_T2	3	3	0	0.27	0.3	0.03	-0.82	-0.83	2	2	0	1800	1800	0
4/6/2024 11:09	61802	EELI_T2	1	0	-1	5.6	0	-5.6	0	0	0	0	0	0	0	0
4/6/2024 11:09	65804	RTWN_T1	1	2	1	0.6	0.75	0.15	-0.32	-0.33	1	1	0	600	600	0
4/6/2024 11:10	56802	BENV_T2	0	0	0	0	0	0	-1.35	-1.4	0	0	0	0	0	0
4/6/2024 11:11	45501	DERR_T2	3	3	0	0.27	0.3	0.03	-0.82	-0.83	2	2	0	1800	1800	0
4/6/2024 11:12	45501	DERR_T2	3	3	0	0.27	0.3	0.03	-1.64	-1.65	4	4	0	3600	3600	0
4/6/2024 11:12	56802	BENV_T2	0	0	0	0	0	0	-5.41	-5.6	0	0	0	0	0	0
4/6/2024 11:14	63803	HEMP_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/6/2024 11:14	63801	HEMP_T1	10	4	-6	0.26	0.45	0.19	-0.34	-0.18	0	0	0	0	0	0
4/6/2024 11:14	26002	WDAM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 11:14	63804	HEMP_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
4/6/2024 11:14	26001	WDAM_T1	1	3	2	0.8	0.6	-0.2	-0.58	-0.6	0	0	0	0	0	0
4/6/2024 11:19	63804	HEMP_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
4/6/2024 11:19	63803	HEMP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/6/2024 11:19	63801	HEMP_T1	2	6	4	0.25	0.43	0.18	-0.34	-0.18	0	0	0	0	0	0
4/6/2024 11:19	64305	LINC_T1	0	0	0	0	0	0	-0.64	-0.7	0	0	0	0	0	0
4/6/2024 11:21	56501	ROCK_T2	1	0	-1	0.3	0	-0.3	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 11:22	56501	ROCK_T2	1	0	-1	0.3	0	-0.3	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 11:23	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 11:24	45402	WBLO_T2	1	1	0	1.1	0.6	-0.5	-1.64	-1.64	1	1	0	900	900	0
4/6/2024 11:25	64305	LINC_T1	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
4/6/2024 11:26	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 11:27	44302	BEAV_T2	60	85	25	0.28	0.35	0.07	0.25	0.28	0	0	0	0	0	0
4/6/2024 11:27	44301	BEAV_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/6/2024 11:28	67605	WARW_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
4/6/2024 11:28	40101	HUNT_T2	0	1	1	0	0	0	-0.55	-0.56	0	0	0	0	0	0
4/6/2024 11:29	56501	ROCK_T2	1	0	-1	0.3	0	-0.3	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 11:30	63804	HEMP_T1	1	2	1	6.1	3.1	-3	0	0	0	0	0	0	0	0
4/6/2024 11:30	64305	LINC_T1	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
4/6/2024 11:30	40101	HUNT_T2	0	1	1	0	0.4	0.4	-0.55	-0.56	0	0	0	0	0	0
4/6/2024 11:30	63801	HEMP_T1	4	10	6	0.45	0.32	-0.13	-0.18	-0.33	0	0	0	0	0	0
4/6/2024 11:30	63803	HEMP_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/6/2024 11:30	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/6/2024 11:31	63803	HEMP_T1	1	2	1	0.4	0.3	-0.1	0.49	0.44	0	0	0	0	0	0
4/6/2024 11:31	63804	HEMP_T1	1	2	1	6.1	3.1	-3	0	0	0	0	0	0	0	0
4/6/2024 11:31	63801	HEMP_T1	4	10	6	0.45	0.32	-0.13	0	0	0	0	0	0	0	0
4/6/2024 11:31	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/6/2024 11:32	63803	HEMP_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/6/2024 11:32	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/6/2024 11:32	63801	HEMP_T1	4	10	6	0.45	0.32	-0.13	0	0	0	0	0	0	0	0
4/6/2024 11:32	63804	HEMP_T1	1	2	1	6.1	3.1	-3	0.59	0.51	0	0	0	0	0	0
4/6/2024 11:33	67605	WARW_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
4/6/2024 11:34	13704	SCHN_T2	1	0	-1	0.4	0	-0.4	-0.37	-0.37	0	0	0	0	0	0
4/6/2024 11:35	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/6/2024 11:35	63801	HEMP_T1	4	10	6	0.45	0.32	-0.13	-0.18	-0.33	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/6/2024 11:35	64305	LINC_T1	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
4/6/2024 11:35	63804	HEMP_T1	1	2	1	6.1	3.1	-3	0	0	0	0	0	0	0	0
4/6/2024 11:35	63803	HEMP_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/6/2024 11:37	56802	BENV_T2	0	0	0	0	0	0	-1.4	-1.38	0	0	0	0	0	0
4/6/2024 11:37	67203	TEHI_T1	0	17	17	0	3.75	3.75	0	0	0	0	0	0	0	0
4/6/2024 11:37	56501	ROCK_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
4/6/2024 11:37	67201	TEHI_T1	55	75	20	0.26	0.38	0.12	-0.17	-0.11	0	0	0	0	0	0
4/6/2024 11:38	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 11:38	56801	BENV_T1	10	9	-1	0.58	0.6	0.02	-0.73	-0.76	1	1	0	600	600	0
4/6/2024 11:38	56803	BENV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/6/2024 11:38	13704	SCHN_T2	1	0	-1	0.4	0	-0.4	-0.37	-0.38	0	0	0	0	0	0
4/6/2024 11:38	56802	BENV_T2	0	0	0	0	0	0	-1.38	-1.4	0	0	0	0	0	0
4/6/2024 11:39	56802	BENV_T2	0	0	0	0	0	0	-1.38	-1.4	0	0	0	0	0	0
4/6/2024 11:40	46204	DANV_T2	1	1	0	1.3	0.2	-1.1	0	0	0	0	0	0	0	0
4/6/2024 11:40	46206	DANV_T2	1	0	-1	1.5	0	-1.5	3.89	3.83	2	2	0	2400	2400	0
4/6/2024 11:40	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 11:40	46203	DANV_T2	11	17	6	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
4/6/2024 11:41	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-1.21	-1.19	1	1	0	600	600	0
4/6/2024 11:42	46206	DANV_T2	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
4/6/2024 11:42	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 11:42	46203	DANV_T2	11	17	6	0.4	0.28	-0.12	-2.33	-2.34	0	0	0	0	0	0
4/6/2024 11:42	46204	DANV_T2	1	1	0	1.3	0.2	-1.1	0	0	0	0	0	0	0	0
4/6/2024 11:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 11:43	46206	DANV_T2	1	0	-1	1.5	0	-1.5	1.95	1.92	1	1	0	1200	1200	0
4/6/2024 11:43	11805	FRAN_T1	0	6	6	0	1.37	1.37	0	0	0	0	0	0	0	0
4/6/2024 11:43	64402	LAND_T2	0	1	1	0	0.1	0.1	-0.5	-0.52	1	1	0	600	600	0
4/6/2024 11:43	11804	FRAN_T1	0	4	4	0	0.7	0.7	0.46	0.44	0	0	0	0	0	0
4/6/2024 11:43	46204	DANV_T2	1	0	-1	1.3	0.2	-1.1	0	0	0	0	0	0	0	0
4/6/2024 11:43	46203	DANV_T2	11	17	6	0.4	0.28	-0.12	-4.67	-4.67	0	0	0	0	0	0
4/6/2024 11:46	63801	HEMP_T1	6	9	3	0.27	0.32	0.05	-0.33	-0.3	0	0	0	0	0	0
4/6/2024 11:46	63804	HEMP_T1	1	2	1	6.1	3.15	-2.95	0	0	0	0	0	0	0	0
4/6/2024 11:46	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/6/2024 11:46	64305	LINC_T1	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
4/6/2024 11:46	63803	HEMP_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/6/2024 11:47	64303	LINC_T1	0	0	0	0	0	0	-0.24	-0.21	0	0	0	0	0	0
4/6/2024 11:47	52501	PROG_T1	0	0	0	0	0	0	0.33	0.32	1	1	0	300	300	0
4/6/2024 11:47	63804	HEMP_T1	1	2	1	6.1	3.15	-2.95	0	0	0	0	0	0	0	0
4/6/2024 11:47	63802	HEMP_T1	0	1	1	0	0.1	0.1	0.16	0.09	0	0	0	0	0	0
4/6/2024 11:47	63801	HEMP_T1	6	9	3	0.27	0.32	0.05	-0.33	-0.3	0	0	0	0	0	0
4/6/2024 11:47	63803	HEMP_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/6/2024 11:47	45702	LIND_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
4/6/2024 11:48	63802	HEMP_T1	0	1	1	0	0.1	0.1	0.16	0.09	0	0	0	0	0	0
4/6/2024 11:48	63804	HEMP_T1	1	2	1	6.1	3.15	-2.95	0	0	0	0	0	0	0	0
4/6/2024 11:48	63803	HEMP_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/6/2024 11:48	13704	SCHN_T2	0	1	1	0	0	0	-0.37	-0.38	0	0	0	0	0	0
4/6/2024 11:48	63801	HEMP_T1	6	9	3	0.27	0.32	0.05	0	0	0	0	0	0	0	0
4/6/2024 11:49	41902	REED_T1	1	1	0	0.5	0	-0.5	2.77	2.72	0	0	0	0	0	0
4/6/2024 11:50	13704	SCHN_T2	0	1	1	0	0	0	-0.37	-0.38	0	0	0	0	0	0
4/6/2024 11:51	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/6/2024 11:51	63801	HEMP_T1	6	9	3	0.27	0.32	0.05	-0.33	-0.3	0	0	0	0	0	0
4/6/2024 11:51	63803	HEMP_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/6/2024 11:51	63804	HEMP_T1	1	2	1	6.1	3.15	-2.95	0	0	0	0	0	0	0	0
4/6/2024 11:51	64305	LINC_T1	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
4/6/2024 11:53	67201	TEHI_T1	27	78	51	0.19	0.38	0.19	-0.16	-0.19	0	0	0	0	0	0
4/6/2024 11:53	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/6/2024 11:54	10805	CHHI_T2	11	11	0	2	1.7	-0.3	-0.99	-0.97	0	0	0	0	0	0
4/6/2024 11:54	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 11:54	10801	CHHI_T1	0	0	0	0	0	0	-3.07	-2.99	4	4	0	3000	3000	0
4/6/2024 11:54	56501	ROCK_T2	0	1	1	0	0.2	0.2	-0.03	-0.03	0	0	0	0	0	0
4/6/2024 11:55	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/6/2024 11:55	10805	CHHI_T2	11	11	0	2	1.7	-0.3	-0.99	-0.97	0	0	0	0	0	0
4/6/2024 11:57	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 11:57	56501	ROCK_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 11:58	56501	ROCK_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 11:59	63801	HEMP_T1	6	9	3	0.27	0.32	0.05	0	0	0	0	0	0	0	0
4/6/2024 11:59	63802	HEMP_T1	0	1	1	0	0.1	0.1	0.09	0.17	0	0	0	0	0	0
4/6/2024 11:59	63804	HEMP_T1	1	2	1	6.1	3.15	-2.95	0	0	0	0	0	0	0	0
4/6/2024 11:59	63803	HEMP_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/6/2024 12:00	63804	HEMP_T1	2	1	-1	3.15	6.2	3.05	0	0	0	0	0	0	0	0
4/6/2024 12:00	63801	HEMP_T1	9	3	-6	0.3	0.43	0.13	0	0	0	0	0	0	0	0
4/6/2024 12:00	63802	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/6/2024 12:00	63404	HONY_T1	15	6	-9	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
4/6/2024 12:00	63401	HONY_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
4/6/2024 12:00	63803	HEMP_T1	2	3	1	0.3	0.13	-0.17	0.43	0.43	0	0	0	0	0	0
4/6/2024 12:01	63802	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/6/2024 12:01	63803	HEMP_T1	2	3	1	0.3	0.13	-0.17	0.43	0.43	0	0	0	0	0	0
4/6/2024 12:01	63801	HEMP_T1	9	3	-6	0.3	0.43	0.13	-0.3	-0.36	0	0	0	0	0	0
4/6/2024 12:01	63804	HEMP_T1	2	1	-1	3.15	6.2	3.05	0	0	0	0	0	0	0	0
4/6/2024 12:01	64305	LINC_T1	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
4/6/2024 12:02	63803	HEMP_T1	2	3	1	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
4/6/2024 12:02	63804	HEMP_T1	2	1	-1	3.15	6.2	3.05	0	0	0	0	0	0	0	0
4/6/2024 12:02	63802	HEMP_T1	1	0	-1	0.1	0	-0.1	0.09	0.17	0	0	0	0	0	0
4/6/2024 12:02	63801	HEMP_T1	9	3	-6	0.3	0.43	0.13	0	0	0	0	0	0	0	0
4/6/2024 12:03	63803	HEMP_T1	2	3	1	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
4/6/2024 12:03	63802	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/6/2024 12:03	63801	HEMP_T1	9	3	-6	0.3	0.43	0.13	-0.3	-0.36	0	0	0	0	0	0
4/6/2024 12:03	63804	HEMP_T1	2	1	-1	3.15	6.2	3.05	0	0	0	0	0	0	0	0
4/6/2024 12:03	64303	LINC_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
4/6/2024 12:04	63803	HEMP_T1	2	3	1	0.3	0.13	-0.17	0.43	0.43	0	0	0	0	0	0
4/6/2024 12:04	63804	HEMP_T1	2	1	-1	3.15	6.2	3.05	0	0	0	0	0	0	0	0
4/6/2024 12:04	54206	PENN_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
4/6/2024 12:04	63802	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/6/2024 12:04	13704	SCHN_T2	0	1	1	0	0	0	-0.38	-0.38	0	0	0	0	0	0
4/6/2024 12:04	63801	HEMP_T1	9	3	-6	0.3	0.43	0.13	0	0	0	0	0	0	0	0
4/6/2024 12:06	56501	ROCK_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 12:06	13704	SCHN_T2	0	1	1	0	0	0	-0.38	-0.38	0	0	0	0	0	0
4/6/2024 12:06	63801	HEMP_T1	9	3	-6	0.3	0.43	0.13	-0.3	-0.36	0	0	0	0	0	0
4/6/2024 12:06	63802	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/6/2024 12:06	63803	HEMP_T1	2	3	1	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
4/6/2024 12:06	63804	HEMP_T1	2	1	-1	3.15	6.2	3.05	0	0	0	0	0	0	0	0
4/6/2024 12:07	64305	LINC_T1	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
4/6/2024 12:08	56501	ROCK_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 12:09	51604	DUKE_T2	1	3	2	0.2	0.6	0.4	-1.35	-1.36	1	1	0	900	900	0
4/6/2024 12:09	56501	ROCK_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 12:09	10801	CHHI_T1	0	0	0	0	0	0	-1.49	-1.53	2	2	0	1500	1500	0
4/6/2024 12:09	10805	CHHI_T2	11	7	-4	2.03	1.66	-0.37	-1.94	-1.91	0	0	0	0	0	0
4/6/2024 12:09	67201	TEHI_T1	75	81	6	0.38	0.48	0.1	-0.19	-0.15	0	0	0	0	0	0
4/6/2024 12:10	10801	CHHI_T1	0	0	0	0	0	0	-1.49	-1.53	2	2	0	1500	1500	0
4/6/2024 12:11	10805	CHHI_T2	11	7	-4	2.03	1.66	-0.37	-0.97	-0.95	0	0	0	0	0	0
4/6/2024 12:13	56501	ROCK_T2	0	1	1	0	0.2	0.2	-0.02	-0.02	0	0	0	0	0	0
4/6/2024 12:13	64303	LINC_T1	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
4/6/2024 12:15	40101	HUNT_T2	0	3	3	0	0.2	0.2	-1.7	-1.75	0	0	0	0	0	0
4/6/2024 12:15	65503	MOJO_T2	0	1	1	0	0.2	0.2	-0.46	-0.49	0	0	0	0	0	0
4/6/2024 12:17	40101	HUNT_T2	0	3	3	0	0.2	0.2	-0.57	-0.58	0	0	0	0	0	0
4/6/2024 12:17	64305	LINC_T1	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
4/6/2024 12:18	17002	RIRO_T2	0	1	1	0	0.1	0.1	0.36	0.38	0	0	0	0	0	0
4/6/2024 12:20	41902	REED_T1	1	10	9	0.3	0	-0.3	2.65	2.78	0	0	0	0	0	0
4/6/2024 12:21	43101	SMIL_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/6/2024 12:21	43105	SMIL_T2	0	0	0	0	0	0	-2.49	-2.48	0	0	0	0	0	0
4/6/2024 12:21	43102	SMIL_T2	3	3	0	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
4/6/2024 12:22	64305	LINC_T1	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
4/6/2024 12:32	40602	PIGR_T1	0	0	0	0	0	0	-1.36	-1.42	2	2	0	1200	1200	0
4/6/2024 12:32	40601	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/6/2024 12:32	11804	FRAN_T1	0	1	1	0	0.4	0.4	0.52	0.52	0	0	0	0	0	0
4/6/2024 12:33	40601	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/6/2024 12:33	40602	PIGR_T1	0	0	0	0	0	0	-0.68	-0.71	1	1	0	600	600	0
4/6/2024 12:33	64305	LINC_T1	0	0	0	0	0	0	-0.71	-0.68	0	0	0	0	0	0
4/6/2024 12:34	59402	RFLD_T2	0	0	0	0	0	0	-0.86	-0.84	1	1	0	450	450	0
4/6/2024 12:38	64305	LINC_T1	0	0	0	0	0	0	-0.68	-0.65	0	0	0	0	0	0
4/6/2024 12:40	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 12:40	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 12:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 12:41	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 12:44	63803	HEMP_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
4/6/2024 12:44	63802	HEMP_T1	0	0	0	0	0	0	0.19	0.12	0	0	0	0	0	0
4/6/2024 12:44	63801	HEMP_T1	0	8	8	0	0.49	0.49	0	0	0	0	0	0	0	0
4/6/2024 12:44	63804	HEMP_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
4/6/2024 12:45	63802	HEMP_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
4/6/2024 12:45	63801	HEMP_T1	4	12	8	0.33	0.49	0.16	-0.18	-0.18	0	0	0	0	0	0
4/6/2024 12:45	63804	HEMP_T1	1	2	1	6.1	3.05	-3.05	0	0	0	0	0	0	0	0
4/6/2024 12:45	63803	HEMP_T1	1	4	3	0.1	0.45	0.35	0.43	0.42	0	0	0	0	0	0
4/6/2024 12:46	63201	MGTN_T2	0	0	0	0	0	0	0.22	0.16	1	1	0	600	600	0
4/6/2024 12:46	63803	HEMP_T1	1	4	3	0.1	0.45	0.35	0	0	0	0	0	0	0	0
4/6/2024 12:46	63801	HEMP_T1	4	12	8	0.33	0.49	0.16	0	0	0	0	0	0	0	0
4/6/2024 12:46	63804	HEMP_T1	1	2	1	6.1	3.05	-3.05	0	0	0	0	0	0	0	0
4/6/2024 12:46	63802	HEMP_T1	0	4	4	0	0.15	0.15	0.19	0.12	0	0	0	0	0	0
4/6/2024 12:47	63201	MGTN_T2	0	0	0	0	0	0	0.22	0.16	1	1	0	600	600	0
4/6/2024 12:48	63201	MGTN_T2	0	0	0	0	0	0	0.22	0.16	1	1	0	600	600	0
4/6/2024 12:49	51002	NHAR_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
4/6/2024 12:49	63201	MGTN_T2	0	0	0	0	0	0	0.22	0.16	1	1	0	600	600	0
4/6/2024 12:49	51006	NHAR_T1	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
4/6/2024 12:49	51004	NHAR_T1	12	7	-5	0.89	1.31	0.42	-0.46	-0.45	0	0	0	0	0	0
4/6/2024 13:01	50103	HARR_T3	2	2	0	0.65	0.75	0.1	-1.98	-2.07	2	2	0	2400	2400	0
4/6/2024 13:01	50105	HARR_T3	8	8	0	6.08	6.04	-0.04	0	0	0	0	0	0	0	0
4/6/2024 13:01	50201	HARR_T3	2	2	0	4.45	4.7	0.25	0	0	0	0	0	0	0	0
4/6/2024 13:02	65503	MOJO_T2	2	0	-2	0.45	0	-0.45	-0.54	-0.54	0	0	0	0	0	0
4/6/2024 13:02	41902	REED_T1	0	0	0	0	0	0	0.95	0.96	0	0	0	0	0	0
4/6/2024 13:03	58402	MORO_T1	0	0	0	0	0	0	-0.49	-0.48	2	2	0	1500	1500	0
4/6/2024 13:03	63404	HONY_T1	23	0	-23	0.14	0	-0.14	0	0	0	0	0	0	0	0
4/6/2024 13:03	58401	MORO_T1	0	1	1	0	7	7	0	0	0	0	0	0	0	0
4/6/2024 13:03	63401	HONY_T1	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
4/6/2024 13:05	58401	MORO_T1	0	1	1	0	7	7	-1.2	-1.22	1	1	0	600	600	0
4/6/2024 13:05	58402	MORO_T1	0	0	0	0	0	0	-0.49	-0.48	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/6/2024 13:05	52501	PROG_T1	0	0	0	0	0	0	0.37	0.31	1	1	0	300	300	0
4/6/2024 13:06	52501	PROG_T1	0	0	0	0	0	0	0.74	0.63	2	2	0	600	600	0
4/6/2024 13:06	52402	GRPA_T2	2	4	2	2.1	1.23	-0.87	0	0	0	0	0	0	0	0
4/6/2024 13:06	52403	GRPA_T2	0	6	6	0	0.33	0.33	0	-0.03	0	0	0	0	0	0
4/6/2024 13:07	52501	PROG_T1	0	0	0	0	0	0	0.37	0.31	1	1	0	300	300	0
4/6/2024 13:07	41902	REED_T1	0	0	0	0	0	0	0.95	0.96	0	0	0	0	0	0
4/6/2024 13:08	41902	REED_T1	0	0	0	0	0	0	0.96	0.98	0	0	0	0	0	0
4/6/2024 13:17	64404	LAND_T2	5	0	-5	0.26	0	-0.26	0	0	0	0	0	0	0	0
4/6/2024 13:17	64402	LAND_T2	1	0	-1	0.7	0	-0.7	-0.51	-0.49	1	1	0	600	600	0
4/6/2024 13:18	41902	REED_T1	0	0	0	0	0	0	0.96	0.98	0	0	0	0	0	0
4/6/2024 13:25	46206	DANV_T2	0	0	0	0	0	0	3.89	3.85	2	2	0	2400	2400	0
4/6/2024 13:25	46203	DANV_T2	75	163	88	0.31	0.43	0.12	0	0	0	0	0	0	0	0
4/6/2024 13:29	46206	DANV_T2	0	0	0	0	0	0	1.95	1.93	1	1	0	1200	1200	0
4/6/2024 13:29	46203	DANV_T2	75	163	88	0.31	0.43	0.12	0	0	0	0	0	0	0	0
4/6/2024 13:31	64305	LINC_T1	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
4/6/2024 13:36	64305	LINC_T1	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
4/6/2024 13:37	42201	SHEN_T2	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
4/6/2024 13:42	46203	DANV_T2	163	130	-33	0.43	0.38	-0.05	-2.36	-2.38	0	0	0	0	0	0
4/6/2024 13:44	46203	DANV_T2	163	130	-33	0.43	0.38	-0.05	-4.71	-4.75	0	0	0	0	0	0
4/6/2024 13:44	63804	HEMP_T1	2	1	-1	3.1	5.9	2.8	0	0	0	0	0	0	0	0
4/6/2024 13:44	63801	HEMP_T1	11	5	-6	0.43	0.58	0.15	0	0	0	0	0	0	0	0
4/6/2024 13:44	63803	HEMP_T1	6	3	-3	0.52	0.4	-0.12	0	0	0	0	0	0	0	0
4/6/2024 13:44	63802	HEMP_T1	4	0	-4	0.2	0	-0.2	0.13	0.12	0	0	0	0	0	0
4/6/2024 13:46	63803	HEMP_T1	3	1	-2	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/6/2024 13:46	46801	HEPB_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
4/6/2024 13:46	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
4/6/2024 13:46	63801	HEMP_T1	5	3	-2	0.58	0.27	-0.31	-0.39	-0.29	0	0	0	0	0	0
4/6/2024 13:46	64305	LINC_T1	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
4/6/2024 13:46	40101	HUNT_T2	0	1	1	0	0.1	0.1	-0.61	-0.63	0	0	0	0	0	0
4/6/2024 13:47	63802	HEMP_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
4/6/2024 13:47	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
4/6/2024 13:47	63801	HEMP_T1	5	3	-2	0.58	0.27	-0.31	0	0	0	0	0	0	0	0
4/6/2024 13:47	63803	HEMP_T1	3	1	-2	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/6/2024 13:48	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
4/6/2024 13:48	63801	HEMP_T1	5	3	-2	0.58	0.27	-0.31	-0.39	-0.29	0	0	0	0	0	0
4/6/2024 13:48	63803	HEMP_T1	3	1	-2	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/6/2024 13:49	42802	SELI_T1	0	0	0	0	0	0	-1.24	-1.22	0	0	0	0	0	0
4/6/2024 13:50	58402	MORO_T1	0	0	0	0	0	0	-0.54	-0.5	2	2	0	1500	1500	0
4/6/2024 13:52	63801	HEMP_T1	5	3	-2	0.58	0.27	-0.31	-0.39	-0.29	0	0	0	0	0	0
4/6/2024 13:52	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
4/6/2024 13:52	58402	MORO_T1	0	0	0	0	0	0	-0.54	-0.5	2	2	0	1500	1500	0
4/6/2024 13:52	63803	HEMP_T1	3	1	-2	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/6/2024 13:52	64305	LINC_T1	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
4/6/2024 13:53	42802	SELI_T1	0	0	0	0	0	0	-1.22	-1.24	0	0	0	0	0	0
4/6/2024 13:54	65503	MOJO_T2	0	0	0	0	0	0	-0.5	-0.47	0	0	0	0	0	0
4/6/2024 14:02	64305	LINC_T1	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
4/6/2024 14:02	63803	HEMP_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/6/2024 14:02	63801	HEMP_T1	3	4	1	0.27	0.3	0.03	-0.29	-0.22	0	0	0	0	0	0
4/6/2024 14:02	63804	HEMP_T1	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
4/6/2024 14:03	52501	PROG_T1	0	0	0	0	0	0	0.63	0.63	2	2	0	600	600	0
4/6/2024 14:03	45003	LIME_2	1	1	0	5.2	4.9	-0.3	0	0	2	2	0	2400	2400	0
4/6/2024 14:04	63803	HEMP_T1	1	1	0	0.1	0.2	0.1	0.5	0.44	0	0	0	0	0	0
4/6/2024 14:04	51401	LYKE_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
4/6/2024 14:04	63801	HEMP_T1	3	4	1	0.27	0.3	0.03	0	0	0	0	0	0	0	0
4/6/2024 14:04	52501	PROG_T1	0	0	0	0	0	0	0.63	0.63	2	2	0	600	600	0
4/6/2024 14:04	63804	HEMP_T1	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
4/6/2024 14:05	41902	REED_T1	0	0	0	0	0	0	2.84	2.99	0	0	0	0	0	0
4/6/2024 14:07	56501	ROCK_T2	1	5	4	0.2	0.28	0.08	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 14:07	20403	ASHF_T2	1	1	0	0.3	0.1	-0.2	0.19	0.17	0	0	0	0	0	0
4/6/2024 14:07	63801	HEMP_T1	3	4	1	0.27	0.3	0.03	-0.29	-0.22	0	0	0	0	0	0
4/6/2024 14:07	63803	HEMP_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/6/2024 14:07	64305	LINC_T1	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
4/6/2024 14:07	63804	HEMP_T1	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
4/6/2024 14:07	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/6/2024 14:08	20403	ASHF_T2	1	1	0	0.3	0.1	-0.2	0.17	0.18	0	0	0	0	0	0
4/6/2024 14:08	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	-0.35	-0.35	0	0	0	0	0	0
4/6/2024 14:09	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	-0.35	-0.35	0	0	0	0	0	0
4/6/2024 14:09	56501	ROCK_T2	1	5	4	0.2	0.28	0.08	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 14:09	20403	ASHF_T2	1	1	0	0.3	0.1	-0.2	0.33	0.36	0	0	0	0	0	0
4/6/2024 14:09	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
4/6/2024 14:10	10801	CHHI_T1	0	1	1	0	1	1	-1.51	-1.52	2	2	0	1500	1500	0
4/6/2024 14:10	46203	DANV_T2	129	110	-19	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
4/6/2024 14:10	60801	BUCK_T1	13	6	-7	0.21	0.12	-0.09	0	0	0	0	0	0	0	0
4/6/2024 14:10	46206	DANV_T2	0	0	0	0	0	0	1.93	1.93	1	1	0	1200	1200	0
4/6/2024 14:10	60803	BUCK_T1	11	11	0	0.2	0.21	0.01	-0.51	-0.51	1	1	0	600	600	0
4/6/2024 14:11	60801	BUCK_T1	13	6	-7	0.21	0.12	-0.09	-0.18	-0.19	0	0	0	0	0	0
4/6/2024 14:11	10801	CHHI_T1	0	1	1	0	1	1	-1.51	-1.52	2	2	0	1500	1500	0
4/6/2024 14:11	60803	BUCK_T1	11	11	0	0.2	0.21	0.01	0	0	0	0	0	0	0	0
4/6/2024 14:12	46206	DANV_T2	0	0	0	0	0	0	3.86	3.85	2	2	0	2400	2400	0
4/6/2024 14:12	46203	DANV_T2	129	110	-19	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
4/6/2024 14:12	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.62	-0.64	0	0	0	0	0	0
4/6/2024 14:13	60803	BUCK_T1	11	11	0	0.2	0.21	0.01	-0.51	-0.51	1	1	0	600	600	0
4/6/2024 14:13	60801	BUCK_T1	13	6	-7	0.21	0.12	-0.09	0	0	0	0	0	0	0	0
4/6/2024 14:14	60802	BUCK_T2	12	7	-5	0.18	0.11	-0.07	0.15	0.13	0	0	0	0	0	0
4/6/2024 14:14	40901	JESH_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
4/6/2024 14:14	40902	JESH_T1	0	0	0	0	0	0	-1.56	-1.56	1	1	0	600	600	0
4/6/2024 14:14	46203	DANV_T2	129	110	-19	0.38	0.32	-0.06	-2.33	-2.39	0	0	0	0	0	0
4/6/2024 14:15	63803	HEMP_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/6/2024 14:15	46203	DANV_T2	106	77	-29	0.31	0.34	0.03	-2.33	-2.39	0	0	0	0	0	0
4/6/2024 14:15	40101	HUNT_T2	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
4/6/2024 14:15	63804	HEMP_T1	1	0	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
4/6/2024 14:15	63801	HEMP_T1	2	5	3	0.15	0.28	0.13	0	0	0	0	0	0	0	0
4/6/2024 14:15	63802	HEMP_T1	0	0	0	0	0	0	0.1	0.18	0	0	0	0	0	0
4/6/2024 14:16	47001	HUGH_T2	0	0	0	0	0	0	-1.68	-1.7	0	0	0	0	0	0
4/6/2024 14:16	60803	BUCK_T1	11	11	0	0.18	0.23	0.05	0	0	0	0	0	0	0	0
4/6/2024 14:16	40101	HUNT_T2	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
4/6/2024 14:16	60801	BUCK_T1	6	13	7	0.1	0.15	0.05	-0.18	-0.19	0	0	0	0	0	0
4/6/2024 14:17	52004	LING_T2	1	1	0	0.6	0.4	-0.2	0.09	0.1	0	0	0	0	0	0
4/6/2024 14:17	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
4/6/2024 14:18	63801	HEMP_T1	2	5	3	0.15	0.28	0.13	-0.22	-0.37	0	0	0	0	0	0
4/6/2024 14:18	64305	LINC_T1	0	0	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
4/6/2024 14:18	63803	HEMP_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/6/2024 14:18	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
4/6/2024 14:19	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
4/6/2024 14:19	59302	MCAL_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/6/2024 14:19	63801	HEMP_T1	2	5	3	0.15	0.28	0.13	-0.22	-0.37	0	0	0	0	0	0
4/6/2024 14:19	64401	SALE_T2	0	0	0	0	0	0	-0.24	-0.2	0	0	0	0	0	0
4/6/2024 14:19	63803	HEMP_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/6/2024 14:19	59301	MCAL_T1	2	3	1	0.6	0.6	0	-1.78	-1.85	1	1	0	600	600	0
4/6/2024 14:19	65503	MOJO_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
4/6/2024 14:19	57401	SPAN_T1	0	0	0	0	0	0	-1.14	-1.19	1	1	0	600	600	0
4/6/2024 14:19	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
4/6/2024 14:20	57401	SPAN_T1	0	0	0	0	0	0	-1.14	-1.19	1	1	0	600	600	0
4/6/2024 14:21	41902	REED_T1	0	0	0	0	0	0	2.99	2.88	0	0	0	0	0	0
4/6/2024 14:21	65804	RTWN_T1	2	2	0	0.5	0.85	0.35	-0.25	-0.26	1	1	0	600	600	0
4/6/2024 14:22	67502	WEWI_T2	0	2	2	0	0.1	0.1	-1.46	-1.41	1	1	0	900	900	0
4/6/2024 14:22	44601	SALE_T2	0	0	0	0	0	0	-0.24	-0.2	0	0	0	0	0	0
4/6/2024 14:22	57401	SPAN_T1	0	0	0	0	0	0	-2.28	-2.38	2	2	0	1200	1200	0
4/6/2024 14:22	65802	RTWN_T2	2	2	0	0.1	0.2	0.1	-0.52	-0.52	0	0	0	0	0	0
4/6/2024 14:23	63803	HEMP_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/6/2024 14:23	56501	ROCK_T2	5	6	1	0.28	0.47	0.19	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 14:23	63801	HEMP_T1	2	5	3	0.15	0.28	0.13	-0.37	-0.33	0	0	0	0	0	0
4/6/2024 14:23	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
4/6/2024 14:23	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.18	0.19	0	0	0	0	0	0
4/6/2024 14:23	64305	LINC_T1	0	0	0	0	0	0	-0.72	-0.68	0	0	0	0	0	0
4/6/2024 14:23	65804	RTWN_T1	2	2	0	0.5	0.85	0.35	-0.26	-0.26	1	1	0	600	600	0
4/6/2024 14:24	67502	WEWI_T2	0	2	2	0	0.1	0.1	-1.41	-1.46	1	1	0	900	900	0
4/6/2024 14:24	44302	BEAV_T2	229	241	12	0.5	0.49	-0.01	0	0	0	0	0	0	0	0
4/6/2024 14:24	44301	BEAV_T2	6	5	-1	0.33	0.44	0.11	0.14	0.18	0	0	0	0	0	0
4/6/2024 14:25	27503	WEIS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/6/2024 14:25	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
4/6/2024 14:25	56501	ROCK_T2	5	6	1	0.28	0.47	0.19	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 14:25	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.18	0.19	0	0	0	0	0	0
4/6/2024 14:25	27502	WEIS_T2	0	0	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
4/6/2024 14:25	57401	SPAN_T1	0	0	0	0	0	0	-1.19	-1.14	1	1	0	600	600	0
4/6/2024 14:26	60801	BUCK_T1	11	11	0	0.18	0.23	0.05	0	0	0	0	0	0	0	0
4/6/2024 14:26	46203	DANV_T2	106	77	-29	0.31	0.34	0.03	-4.77	-4.81	0	0	0	0	0	0
4/6/2024 14:26	60801	BUCK_T1	6	13	7	0.1	0.15	0.05	-0.38	-0.36	0	0	0	0	0	0
4/6/2024 14:26	46206	DANV_T2	0	0	0	0	0	0	1.93	1.93	1	1	0	1200	1200	0
4/6/2024 14:26	45501	DERR_T2	0	1	1	0	0.2	0.2	-1.95	-1.95	6	6	0	5400	5400	0
4/6/2024 14:26	60101	COCA_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
4/6/2024 14:26	10801	CHHI_T1	1	1	0	1	0.9	-0.1	-3.04	-3.06	4	4	0	3000	3000	0
4/6/2024 14:27	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.65	-0.65	2	2	0	1800	1800	0
4/6/2024 14:27	60803	BUCK_T1	11	11	0	0.18	0.23	0.05	0	0	0	0	0	0	0	0
4/6/2024 14:27	60801	BUCK_T1	6	13	7	0.1	0.15	0.05	-0.19	-0.18	0	0	0	0	0	0
4/6/2024 14:28	46206	DANV_T2	0	0	0	0	0	0	3.85	3.85	2	2	0	2400	2400	0
4/6/2024 14:28	46203	DANV_T2	106	77	-29	0.31	0.34	0.03	0	0	0	0	0	0	0	0
4/6/2024 14:28	60803	BUCK_T1	11	11	0	0.18	0.23	0.05	-0.51	-0.51	1	1	0	600	600	0
4/6/2024 14:28	41801	GOCI_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/6/2024 14:28	60801	BUCK_T1	6	13	7	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/6/2024 14:28	60101	COCA_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
4/6/2024 14:28	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
4/6/2024 14:29	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.65	-0.65	2	2	0	1800	1800	0
4/6/2024 14:29	46203	DANV_T2	106	77	-29	0.31	0.34	0.03	-2.39	-2.41	0	0	0	0	0	0
4/6/2024 14:30	42903	MIDD_T2	110	84	-26	0.49	0.42	-0.07	0	0	0	0	0	0	0	0
4/6/2024 14:30	64303	LINC_T1	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
4/6/2024 14:30	42902	MIDD_T2	183	202	19	0.56	0.51	-0.05	-1.34	-1.33	0	0	0	0	0	0
4/6/2024 14:30	45501	DERR_T2	1	1	0	0.2	0.2	0	-0.65	-0.65	2	2	0	1800	1800	0
4/6/2024 14:30	45702	LIND_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
4/6/2024 14:30	42901	MIDD_T2	311	306	-5	0.51	0.49	-0.02	0	0	0	0	0	0	0	0
4/6/2024 14:30	41801	GOCI_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/6/2024 14:30	60101	COCA_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
4/6/2024 14:31	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/6/2024 14:31	42902	MIDD_T2	183	202	19	0.56	0.51	-0.05	-0.67	-0.67	0	0	0	0	0	0
4/6/2024 14:31	42901	MIDD_T2	311	306	-5	0.51	0.49	-0.02	0	0	0	0	0	0	0	0
4/6/2024 14:31	60801	BUCK_T1	1	15	14	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
4/6/2024 14:31	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
4/6/2024 14:31	40101	HUNT_T2	0	0	0	0	0	0	-1.28	-1.24	0	0	0	0	0	0
4/6/2024 14:31	60803	BUCK_T1	11	11	0	0.21	0.23	0.02	-0.51	-0.51	1	1	0	600	600	0
4/6/2024 14:31	42903	MIDD_T2	110	84	-26	0.49	0.42	-0.07	0	0	0	0	0	0	0	0
4/6/2024 14:31	63801	HEMP_T1	4	5	1	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
4/6/2024 14:31	63803	HEMP_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
4/6/2024 14:32	60803	BUCK_T1	11	11	0	0.21	0.23	0.02	0	0	0	0	0	0	0	0
4/6/2024 14:32	60801	BUCK_T1	1	15	14	0.2	0.19	-0.01	-0.19	-0.18	0	0	0	0	0	0
4/6/2024 14:32	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
4/6/2024 14:33	55002	NEWP_T1	4	5	1	0.63	0.5	-0.13	-0.24	-0.23	0	0	0	0	0	0
4/6/2024 14:33	64305	LINC_T1	0	0	0	0	0	0	-0.72	-0.68	0	0	0	0	0	0
4/6/2024 14:34	63803	HEMP_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
4/6/2024 14:34	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
4/6/2024 14:34	63801	HEMP_T1	4	5	1	0.3	0.26	-0.04	-0.37	-0.33	0	0	0	0	0	0
4/6/2024 14:35	65003	NEFF_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
4/6/2024 14:35	42903	MIDD_T2	110	84	-26	0.49	0.42	-0.07	0	0	0	0	0	0	0	0
4/6/2024 14:35	55002	NEWP_T1	4	5	1	0.63	0.5	-0.13	-0.48	-0.46	0	0	0	0	0	0
4/6/2024 14:35	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
4/6/2024 14:35	63803	HEMP_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
4/6/2024 14:35	58402	MORO_T1	0	0	0	0	0	0	-0.5	-0.47	2	2	0	1500	1500	0
4/6/2024 14:35	44601	SALE_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
4/6/2024 14:35	42902	MIDD_T2	183	202	19	0.56	0.51	-0.05	-0.67	-0.67	0	0	0	0	0	0
4/6/2024 14:35	42901	MIDD_T2	311	306	-5	0.51	0.49	-0.02	0	0	0	0	0	0	0	0
4/6/2024 14:35	63801	HEMP_T1	4	5	1	0.3	0.26	-0.04	-0.37	-0.33	0	0	0	0	0	0
4/6/2024 14:35	65001	NEFF_T2	2	0	-2	0.15	0	-0.15	-1.31	-1.37	1	1	0	1200	1200	0
4/6/2024 14:36	57401	SPAN_T1	0	0	0	0	0	0	-1.19	-1.14	1	1	0	600	600	0
4/6/2024 14:36	27503	WEIS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/6/2024 14:36	27502	WEIS_T2	0	0	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
4/6/2024 14:36	42601	TUSC_T1	9	7	-2	0.63	0.15	-0.48	-0.47	-0.49	2	2	0	1800	1800	0
4/6/2024 14:37	58402	MORO_T1	0	0	0	0	0	0	-0.5	-0.47	2	2	0	1500	1500	0
4/6/2024 14:37	65804	RTWN_T1	2	1	-1	0.85	0.4	-0.45	-0.26	-0.26	1	1	0	600	600	0
4/6/2024 14:37	57401	SPAN_T1	0	0	0	0	0	0	-1.19	-1.14	1	1	0	600	600	0
4/6/2024 14:37	41902	REED_T1	0	0	0	0	0	0	2.88	2.72	0	0	0	0	0	0
4/6/2024 14:38	65802	RTWN_T2	2	0	-2	0.2	0	-0.2	-0.54	-0.51	0	0	0	0	0	0
4/6/2024 14:38	57401	SPAN_T1	0	0	0	0	0	0	-1.14	-1.15	1	1	0	600	600	0
4/6/2024 14:38	56802	BENV_T2	0	0	0	0	0	0	-1.47	-1.42	0	0	0	0	0	0
4/6/2024 14:38	44601	SALE_T2	0	0	0	0	0	0	-0.2	-0.23	0	0	0	0	0	0
4/6/2024 14:39	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
4/6/2024 14:39	64305	LINC_T1	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
4/6/2024 14:39	65804	RTWN_T1	2	1	-1	0.85	0.4	-0.45	-0.26	-0.28	1	1	0	600	600	0
4/6/2024 14:39	63801	HEMP_T1	4	5	1	0.3	0.26	-0.04	-0.33	-0.38	0	0	0	0	0	0
4/6/2024 14:39	63803	HEMP_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
4/6/2024 14:40	60101	COCA_T1	0	0	0	0	0	0	0.23	0.27	0	0	0	0	0	0
4/6/2024 14:40	57401	SPAN_T1	0	0	0	0	0	0	-1.14	-1.15	1	1	0	600	600	0
4/6/2024 14:40	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 14:40	57403	SPAN_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
4/6/2024 14:40	46203	DANV_T2	77	87	10	0.32	0.36	0.04	-2.41	-2.39	0	0	0	0	0	0
4/6/2024 14:40	42503	ALTA_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
4/6/2024 14:41	57401	SPAN_T1	0	0	0	0	0	0	-1.14	-1.15	1	1	0	600	600	0
4/6/2024 14:41	45501	DERR_T2	1	1	0	0.2	0.2	0	-0.65	-0.63	2	2	0	1800	1800	0
4/6/2024 14:41	60803	BUCK_T1	11	11	0	0.21	0.23	0.02	-0.51	-0.5	1	1	0	600	600	0
4/6/2024 14:41	60801	BUCK_T1	1	15	14	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
4/6/2024 14:42	65001	NEFF_T2	2	0	-2	0.15	0	-0.15	-1.37	-1.24	1	1	0	1200	1200	0
4/6/2024 14:42	65003	NEFF_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
4/6/2024 14:42	46203	DANV_T2	77	87	10	0.32	0.36	0.04	-4.81	-4.77	0	0	0	0	0	0
4/6/2024 14:42	60801	BUCK_T1	1	15	14	0.2	0.19	-0.01	-0.36	-0.4	0	0	0	0	0	0
4/6/2024 14:42	60803	BUCK_T1	11	11	0	0.21	0.23	0.02	0	0	0	0	0	0	0	0
4/6/2024 14:42	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 14:42	56802	BENV_T2	0	0	0	0	0	0	-4.41	-4.26	0	0	0	0	0	0
4/6/2024 14:42	10801	CHHI_T1	1	1	0	1.4	0.1	-1.3	-1.53	-1.56	2	2	0	1500	1500	0
4/6/2024 14:43	60803	BUCK_T1	11	11	0	0.21	0.23	0.02	0	0	0	0	0	0	0	0
4/6/2024 14:43	10801	CHHI_T1	1	1	0	1.4	0.1	-1.3	-1.53	-1.56	2	2	0	1500	1500	0
4/6/2024 14:43	67605	WARW_T1	6	5	-1	0.47	0.32	-0.15	-0.95	-0.96	0	0	0	0	0	0
4/6/2024 14:43	60801	BUCK_T1	1	15	14	0.2	0.19	-0.01	-0.36	-0.4	0	0	0	0	0	0
4/6/2024 14:44	60801	BUCK_T1	1	15	14	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
4/6/2024 14:44	64305	LINC_T1	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
4/6/2024 14:44	60803	BUCK_T1	11	11	0	0.21	0.23	0.02	-0.51	-0.5	1	1	0	600	600	0
4/6/2024 14:44	40101	HUNT_T2	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
4/6/2024 14:44	67605	WARW_T1	6	5	-1	0.47	0.32	-0.15	-0.95	-0.96	0	0	0	0	0	0
4/6/2024 14:45	42902	MIDD_T2	176	197	21	0.45	0.49	0.04	-1.33	-1.34	0	0	0	0	0	0
4/6/2024 14:45	64201	KINZ_T1	22	23	1	0.38	0.55	0.17	0.26	0.14	2	2	0	600	600	0
4/6/2024 14:45	64204	KINZ_T1	36	39	3	0.47	0.53	0.06	0	0	0	0	0	0	0	0
4/6/2024 14:45	64203	KINZ_T1	92	176	84	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
4/6/2024 14:45	42903	MIDD_T2	81	77	-4	0.4	0.41	0.01	0	0	0	0	0	0	0	0
4/6/2024 14:45	64202	KINZ_T1	26	25	-1	0.42	0.54	0.12	0	0	0	0	0	0	0	0
4/6/2024 14:45	42901	MIDD_T2	262	299	37	0.48	0.48	0	0	0	0	0	0	0	0	0
4/6/2024 14:46	42903	MIDD_T2	81	77	-4	0.4	0.41	0.01	0	0	0	0	0	0	0	0
4/6/2024 14:46	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
4/6/2024 14:46	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
4/6/2024 14:46	64201	KINZ_T1	22	23	1	0.38	0.55	0.17	0.13	0.07	1	1	0	300	300	0
4/6/2024 14:46	51401	LYKE_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
4/6/2024 14:46	64203	KINZ_T1	92	176	84	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
4/6/2024 14:46	42901	MIDD_T2	262	299	37	0.48	0.48	0	0	0	0	0	0	0	0	0
4/6/2024 14:46	63803	HEMP_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/6/2024 14:46	52403	GRPA_T2	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
4/6/2024 14:46	45702	LIND_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
4/6/2024 14:46	64204	KINZ_T1	36	39	3	0.47	0.53	0.06	0	0	0	0	0	0	0	0
4/6/2024 14:46	63801	HEMP_T1	5	2	-3	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
4/6/2024 14:46	52402	GRPA_T2	1	1	0	3.5	4.2	0.7	0	0	0	0	0	0	0	0
4/6/2024 14:46	64202	KINZ_T1	26	25	-1	0.42	0.54	0.12	0	0	0	0	0	0	0	0
4/6/2024 14:46	42902	MIDD_T2	176	197	21	0.45	0.49	0.04	-1.33	-1.34	0	0	0	0	0	0
4/6/2024 14:46	40902	JESH_T1	0	0	0	0	0	0	-1.58	-1.55	1	1	0	600	600	0
4/6/2024 14:46	40901	JESH_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
4/6/2024 14:47	63801	HEMP_T1	5	2	-3	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
4/6/2024 14:47	63803	HEMP_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/6/2024 14:47	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
4/6/2024 14:47	40101	HUNT_T2	0	1	1	0	0	0	-1.86	-1.92	0	0	0	0	0	0
4/6/2024 14:47	51401	LYKE_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
4/6/2024 14:47	63802	HEMP_T1	0	0	0	0	0	0	0.16	0.08	0	0	0	0	0	0
4/6/2024 14:48	67605	WARW_T1	5	4	-1	0.22	0.38	0.16	-0.95	-0.96	0	0	0	0	0	0
4/6/2024 14:48	60101	COCA_T1	0	0	0	0	0	0	0.23	0.27	0	0	0	0	0	0
4/6/2024 14:48	60801	BUCK_T1	13	26	13	0.15	0.21	0.06	-0.18	-0.2	0	0	0	0	0	0
4/6/2024 14:48	60803	BUCK_T1	11	15	4	0.21	0.3	0.09	0	0	0	0	0	0	0	0
4/6/2024 14:48	63804	LINC_T2	1	1	0	0.4	0.3	-0.1	0.12	0.11	0	0	0	0	0	0
4/6/2024 14:49	55002	NEWP_T1	5	5	0	0.46	0.54	0.08	-0.23	-0.21	0	0	0	0	0	0
4/6/2024 14:49	64201	KINZ_T1	22	23	1	0.38	0.55	0.17	0.13	0.07	1	1	0	300	300	0
4/6/2024 14:49	63803	HEMP_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/6/2024 14:49	42802	SELI_T1	1	0	-1	0.1	0	-0.1	-3.75	-3.69	0	0	0	0	0	0
4/6/2024 14:49	63801	HEMP_T1	5	2	-3	0.26	0.2	-0.06	-0.33	-0.38	0	0	0	0	0	0
4/6/2024 14:49	64203	KINZ_T1	92	176	84	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
4/6/2024 14:49	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
4/6/2024 14:49	64204	KINZ_T1	36	39	3	0.47	0.53	0.06	0	0	0	0	0	0	0	0
4/6/2024 14:49	51401	LYKE_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
4/6/2024 14:49	64305	LINC_T1	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
4/6/2024 14:49	64202	KINZ_T1	26	25	-1	0.42	0.54	0.12	0	0	0	0	0	0	0	0
4/6/2024 14:50	65001	NEFF_T2	0	0	0	0	0	0	-1.37	-1.24	1	1	0	1200	1200	0
4/6/2024 14:50	44601	SALE_T2	0	0	0	0	0	0	-0.2	-0.23	0	0	0	0	0	0
4/6/2024 14:50	17002	RIRO_T2	1	2	1	0.6	0.25	-0.35	0.33	0.33	0	0	0	0	0	0
4/6/2024 14:51	55002	NEWP_T1	5	5	0	0.46	0.54	0.08	-0.46	-0.42	0	0	0	0	0	0
4/6/2024 14:51	63803	HEMP_T1	2	0	-2	0.2	0	-0.2	0.43	0.44	0	0	0	0	0	0
4/6/2024 14:51	51401	LYKE_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
4/6/2024 14:51	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
4/6/2024 14:51	63801	HEMP_T1	5	2	-3	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
4/6/2024 14:52	42802	SELI_T1	1	0	-1	0.1	0	-0.1	-3.75	-3.69	0	0	0	0	0	0
4/6/2024 14:53	42802	SELI_T1	1	0	-1	0.1	0	-0.1	-3.69	-3.41	0	0	0	0	0	0
4/6/2024 14:54	42802	SELI_T1	1	0	-1	0.1	0	-0.1	-1.23	-1.14	0	0	0	0	0	0
4/6/2024 14:54	56501	ROCK_T2	6	7	1	0.47	0.24	-0.23	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 14:54	44601	SALE_T2	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
4/6/2024 14:55	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
4/6/2024 14:55	63803	HEMP_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/6/2024 14:55	63801	HEMP_T1	5	2	-3	0.26	0.2	-0.06	-0.38	-0.35	0	0	0	0	0	0
4/6/2024 14:56	56501	ROCK_T2	6	7	1	0.47	0.24	-0.23	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 14:56	41801	GOCI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/6/2024 14:57	56802	BENV_T2	0	0	0	0	0	0	-1.42	-1.41	0	0	0	0	0	0
4/6/2024 14:59	41801	GOCI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/6/2024 15:00	64305	LINC_T1	0	0	0	0	0	0	-0.7	-0.67	0	0	0	0	0	0
4/6/2024 15:03	41902	REED_T1	0	0	0	0	0	0	1.79	1.87	0	0	0	0	0	0
4/6/2024 15:03	65001	NEFF_T2	0	2	2	0	0.1	0.1	-1.24	-1.31	1	1	0	1200	1200	0
4/6/2024 15:05	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
4/6/2024 15:05	64305	LINC_T1	0	0	0	0	0	0	-0.7	-0.67	0	0	0	0	0	0
4/6/2024 15:05	63801	HEMP_T1	0	5	5	0	0.28	0.28	-0.38	-0.35	0	0	0	0	0	0
4/6/2024 15:06	67502	WEWI_T2	0	0	0	0	0	0	-1.44	-1.49	1	1	0	900	900	0
4/6/2024 15:06	52402	GRPA_T2	1	1	0	4.2	4.4	0.2	0	0	0	0	0	0	0	0
4/6/2024 15:06	52403	GRPA_T2	0	3	3	0	0	0	-0.03	0	0	0	0	0	0	0
4/6/2024 15:07	43103	SMIL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/6/2024 15:07	43101	SMIL_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/6/2024 15:07	43102	SMIL_T2	6	6	0	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
4/6/2024 15:07	43104	SMIL_T2	0	0	0	0	0	0	-0.84	-0.84	1	1	0	300	300	0
4/6/2024 15:07	43105	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/6/2024 15:08	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/6/2024 15:08	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
4/6/2024 15:08	41902	REED_T1	0	0	0	0	0	0	0.93	0.96	0	0	0	0	0	0
4/6/2024 15:09	67502	WEWI_T2	0	0	0	0	0	0	-1.49	-1.52	1	1	0	900	900	0
4/6/2024 15:10	63801	HEMP_T1	0	5	5	0	0.28	0.28	-0.35	-0.38	0	0	0	0	0	0
4/6/2024 15:10	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
4/6/2024 15:11	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/6/2024 15:11	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
4/6/2024 15:12	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
4/6/2024 15:12	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/6/2024 15:12	45501	DERR_T2	0	0	0	0	0	0	-1.26	-1.32	4	4	0	3600	3600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/6/2024 15:13	67605	WARW_T1	4	2	-2	0.38	0.35	-0.03	-0.98	-0.94	0	0	0	0	0	0
4/6/2024 15:14	60801	BUCK_T1	15	30	15	0.16	0.2	0.04	-0.16	-0.2	0	0	0	0	0	0
4/6/2024 15:14	60803	BUCK_T1	11	15	4	0.21	0.31	0.1	0	0	0	0	0	0	0	0
4/6/2024 15:15	40101	HUNT_T2	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
4/6/2024 15:15	26001	WDAM_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
4/6/2024 15:15	26002	WDAM_T1	3	6	3	0.4	0.32	-0.08	0	0	0	0	0	0	0	0
4/6/2024 15:16	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
4/6/2024 15:16	64305	LINC_T1	0	0	0	0	0	0	-0.67	-0.73	0	0	0	0	0	0
4/6/2024 15:16	46801	HEPB_T2	0	0	0	0	0	0	0.51	0.55	0	0	0	0	0	0
4/6/2024 15:16	63803	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/6/2024 15:16	63801	HEMP_T1	2	6	4	0.2	0.23	0.03	-0.35	-0.38	0	0	0	0	0	0
4/6/2024 15:17	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
4/6/2024 15:17	63803	HEMP_T1	0	1	1	0	0.2	0.2	0.47	0.52	0	0	0	0	0	0
4/6/2024 15:17	63801	HEMP_T1	2	6	4	0.2	0.23	0.03	0	0	0	0	0	0	0	0
4/6/2024 15:18	67605	WARW_T1	2	6	4	0.35	0.35	0	-0.98	-0.94	0	0	0	0	0	0
4/6/2024 15:19	60803	BUCK_T1	15	14	-1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/6/2024 15:19	41902	REED_T1	0	0	0	0	0	0	2.8	2.88	0	0	0	0	0	0
4/6/2024 15:19	60801	BUCK_T1	25	27	2	0.21	0.21	0	-0.16	-0.2	0	0	0	0	0	0
4/6/2024 15:21	63801	HEMP_T1	2	6	4	0.2	0.23	0.03	-0.35	-0.38	0	0	0	0	0	0
4/6/2024 15:21	63803	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/6/2024 15:21	64305	LINC_T1	0	0	0	0	0	0	-0.67	-0.73	0	0	0	0	0	0
4/6/2024 15:21	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
4/6/2024 15:28	67605	WARW_T1	2	6	4	0.35	0.35	0	-0.94	-1.18	0	0	0	0	0	0
4/6/2024 15:31	63803	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/6/2024 15:31	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
4/6/2024 15:31	63801	HEMP_T1	5	6	1	0.26	0.15	-0.11	-0.38	-0.23	0	0	0	0	0	0
4/6/2024 15:31	64305	LINC_T1	0	0	0	0	0	0	-0.73	-0.66	0	0	0	0	0	0
4/6/2024 15:33	67605	WARW_T1	2	6	4	0.25	0.35	0.1	-0.94	-1.18	0	0	0	0	0	0
4/6/2024 15:34	41902	REED_T1	0	0	0	0	0	0	1.92	1.78	0	0	0	0	0	0
4/6/2024 15:35	41902	REED_T1	0	0	0	0	0	0	0.96	0.89	0	0	0	0	0	0
4/6/2024 15:36	14404	SSLA_T1	1	1	0	4.2	4.2	0	0	0	0	0	0	0	0	0
4/6/2024 15:36	14403	SSLA_T1	1	0	-1	0.9	0	-0.9	1.28	1.31	0	0	0	0	0	0
4/6/2024 15:37	63803	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/6/2024 15:37	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
4/6/2024 15:37	64305	LINC_T1	0	0	0	0	0	0	-0.73	-0.66	0	0	0	0	0	0
4/6/2024 15:37	63801	HEMP_T1	5	6	1	0.26	0.15	-0.11	-0.38	-0.23	0	0	0	0	0	0
4/6/2024 15:38	42201	SHEN_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
4/6/2024 15:40	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 15:43	67605	WARW_T1	2	6	4	0.25	0.35	0.1	-1.18	-1.16	0	0	0	0	0	0
4/6/2024 15:43	52403	GRPA_T2	3	1	-2	0.83	0	-0.83	-0.02	0.01	0	0	0	0	0	0
4/6/2024 15:43	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 15:43	52402	GRPA_T2	1	3	2	4.4	1.5	-2.9	0	0	0	0	0	0	0	0
4/6/2024 15:46	64802	MONE_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
4/6/2024 15:47	63803	HEMP_T1	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/6/2024 15:47	63801	HEMP_T1	6	6	0	0.13	0.25	0.12	-0.23	-0.1	0	0	0	0	0	0
4/6/2024 15:47	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
4/6/2024 15:48	59302	MCAL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/6/2024 15:48	59301	MCAL_T1	2	2	0	0.6	0.65	0.05	-1.85	-1.84	1	1	0	600	600	0
4/6/2024 15:49	67605	WARW_T1	6	2	-4	0.35	0.3	-0.05	-1.18	-1.16	0	0	0	0	0	0
4/6/2024 15:51	67204	TEHI_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
4/6/2024 15:52	63801	HEMP_T1	6	6	0	0.13	0.25	0.12	-0.23	-0.1	0	0	0	0	0	0
4/6/2024 15:52	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
4/6/2024 15:52	63803	HEMP_T1	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/6/2024 15:52	67204	TEHI_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
4/6/2024 15:53	20401	ASHF_T2	1	3	2	0.1	0.2	0.1	-0.44	-0.42	0	0	0	0	0	0
4/6/2024 15:56	56802	BENV_T2	0	0	0	0	0	0	-1.46	-1.43	0	0	0	0	0	0
4/6/2024 15:56	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 16:13	67605	WARW_T1	2	1	-1	0.3	0.3	0	-0.97	-0.94	0	0	0	0	0	0
4/6/2024 16:17	63401	HONY_T1	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
4/6/2024 16:18	67605	WARW_T1	1	1	0	0.3	0.2	-0.1	-0.97	-0.94	0	0	0	0	0	0
4/6/2024 16:19	63803	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/6/2024 16:19	63804	HEMP_T1	1	1	0	5.8	6.1	0.3	0	0	0	0	0	0	0	0
4/6/2024 16:19	63801	HEMP_T1	6	2	-4	0.25	0.3	0.05	-0.39	-0.37	0	0	0	0	0	0
4/6/2024 16:24	63804	HEMP_T1	1	1	0	5.8	6.1	0.3	0	0	0	0	0	0	0	0
4/6/2024 16:24	63803	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/6/2024 16:24	63801	HEMP_T1	6	2	-4	0.25	0.3	0.05	-0.37	-0.4	0	0	0	0	0	0
4/6/2024 16:40	63801	HEMP_T1	2	0	-2	0.3	0	-0.3	-0.4	-0.38	0	0	0	0	0	0
4/6/2024 16:40	63804	HEMP_T1	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
4/6/2024 16:50	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
4/6/2024 16:50	63801	HEMP_T1	0	1	1	0	0.1	0.1	-0.4	-0.38	0	0	0	0	0	0
4/6/2024 16:55	63801	HEMP_T1	0	1	1	0	0.1	0.1	-0.38	-0.42	0	0	0	0	0	0
4/6/2024 16:55	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
4/6/2024 16:57	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 16:57	52403	GRPA_T2	0	2	2	0	0	0	0	0.06	0	0	0	0	0	0
4/6/2024 16:57	52402	GRPA_T2	1	1	0	4.3	4.5	0.2	0	0	0	0	0	0	0	0
4/6/2024 17:03	57403	SPAN_T1	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
4/6/2024 17:28	67605	WARW_T1	1	0	-1	0.2	0	-0.2	-0.93	-0.9	0	0	0	0	0	0
4/6/2024 17:33	67605	WARW_T1	0	0	0	0	0	0	-0.93	-0.9	0	0	0	0	0	0
4/6/2024 20:48	63602	LETO_T1	0	0	0	0	0	0	-0.54	-0.38	0	0	0	0	0	0
4/6/2024 20:57	27101	GFLD_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
4/6/2024 20:59	53901	HALI_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/6/2024 20:59	53902	HALI_T2	1	1	0	5	5.3	0.3	0	0	0	0	0	0	0	0
4/6/2024 20:59	53903	HALI_T2	2	2	0	0.8	0.6	-0.2	-0.21	-0.21	0	0	0	0	0	0
4/6/2024 21:04	65901	SAKR_T2	1	1	0	8.7	9	0.3	-1.46	-1.51	1	1	0	900	900	0
4/6/2024 21:07	65901	SAKR_T2	1	1	0	8.7	9	0.3	-1.46	-1.51	1	1	0	900	900	0
4/6/2024 21:10	53601	DALM_T2	1	1	0	0.2	0.3	0.1	-0.12	-0.09	0	0	0	0	0	0
4/6/2024 21:11	40602	PIGR_T1	0	0	0	0	0	0	-1.53	-1.44	2	2	0	1200	1200	0
4/6/2024 21:11	61801	EELI_T2	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
4/6/2024 21:11	40601	PIGR_T1	0	72	72	0	0.17	0.17	0	0	0	0	0	0	0	0
4/6/2024 21:13	61801	EELI_T2	0	0	0	0	0	0	-0.86	-0.82	0	0	0	0	0	0
4/6/2024 21:16	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 21:17	25402	LAHA_T2	0	1	1	0	0	0	-0.77	-0.79	0	0	0	0	0	0
4/6/2024 21:17	46206	DANV_T2	0	0	0	0	0	0	1.95	1.92	1	1	0	1200	1200	0
4/6/2024 21:17	26002	WDAM_T1	4	7	3	0.23	0.41	0.18	0	0	0	0	0	0	0	0
4/6/2024 21:17	26001	WDAM_T1	0	3	3	0	0.13	0.13	-0.36	-0.36	0	0	0	0	0	0
4/6/2024 21:17	46203	DANV_T2	48	105	57	0.25	0.41	0.16	0	0	0	0	0	0	0	0
4/6/2024 21:19	17002	RIRO_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
4/6/2024 21:19	42503	ALTA_T2	0	0	0	0	0	0	-0.66	-0.69	0	0	0	0	0	0
4/6/2024 21:21	57401	SPAN_T1	0	0	0	0	0	0	-0.9	-0.96	1	1	0	600	600	0
4/6/2024 21:21	10805	CHHI_T2	1	1	0	7.6	7.5	-0.1	-1.03	-1.08	0	0	0	0	0	0
4/6/2024 21:22	44601	SALE_T2	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
4/6/2024 21:22	67204	TEHI_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
4/6/2024 21:22	16402	MOPO_T1	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
4/6/2024 21:23	60101	COCA_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
4/6/2024 21:23	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.12	-1.14	0	0	0	0	0	0
4/6/2024 21:24	64203	KINZ_T1	400	425	25	0.29	0.32	0.03	0	0	0	0	0	0	0	0
4/6/2024 21:24	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
4/6/2024 21:24	64202	KINZ_T1	77	72	-5	0.46	0.46	0	0	0	0	0	0	0	0	0
4/6/2024 21:24	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 21:24	64204	KINZ_T1	48	42	-6	0.54	0.65	0.11	0	0	0	0	0	0	0	0
4/6/2024 21:24	20401	ASHF_T2	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
4/6/2024 21:24	64201	KINZ_T1	52	54	2	0.38	0.35	-0.03	0.74	0.76	0	0	0	0	0	0
4/6/2024 21:25	27502	WEIS_T2	0	1	1	0	0	0	-0.68	-0.67	0	0	0	0	0	0
4/6/2024 21:26	10805	CHHI_T2	1	1	0	7.6	7.5	-0.1	-1.08	-1.13	0	0	0	0	0	0
4/6/2024 21:26	47002	HUGH_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
4/6/2024 21:26	47001	HUGH_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
4/6/2024 21:26	10801	CHHI_T1	0	0	0	0	0	0	-3.19	-3.23	4	4	0	3000	3000	0
4/6/2024 21:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 21:27	60101	COCA_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
4/6/2024 21:27	14402	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 21:27	14403	SSLA_T1	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
4/6/2024 21:27	14404	SSLA_T1	1	1	0	4.1	4.4	0.3	0	0	0	0	0	0	0	0
4/6/2024 21:28	46203	DANV_T2	48	105	57	0.25	0.41	0.16	0	0	0	0	0	0	0	0
4/6/2024 21:28	40101	HUNT_T2	0	0	0	0	0	0	-0.67	-0.64	0	0	0	0	0	0
4/6/2024 21:28	40601	PIGR_T1	72	28	-44	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
4/6/2024 21:28	67204	TEHI_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
4/6/2024 21:28	63401	HONY_T1	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
4/6/2024 21:28	46206	DANV_T2	0	0	0	0	0	0	1.92	1.88	1	1	0	1200	1200	0
4/6/2024 21:28	24902	WHHA_T1	17	26	9	1.11	0.94	-0.17	0	0	0	0	0	0	0	0
4/6/2024 21:28	40602	PIGR_T1	0	0	0	0	0	0	-0.72	-0.73	1	1	0	600	600	0
4/6/2024 21:29	65001	NEFF_T2	0	0	0	0	0	0	-1.43	-1.44	1	1	0	1200	1200	0
4/6/2024 21:29	44601	SALE_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
4/6/2024 21:30	64202	KINZ_T1	66	85	19	0.43	0.57	0.14	0	0	0	0	0	0	0	0
4/6/2024 21:30	53902	HALI_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
4/6/2024 21:30	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
4/6/2024 21:30	60101	COCA_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
4/6/2024 21:30	64201	KINZ_T1	39	73	34	0.37	0.37	0	0.74	0.76	0	0	0	0	0	0
4/6/2024 21:30	64204	KINZ_T1	41	60	19	0.56	0.64	0.08	0	0	0	0	0	0	0	0
4/6/2024 21:30	43201	MVIL_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
4/6/2024 21:30	53901	HALI_T2	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
4/6/2024 21:30	53903	HALI_T2	0	2	2	0	1.2	1.2	-0.15	-0.15	0	0	0	0	0	0
4/6/2024 21:30	64203	KINZ_T1	356	554	198	0.26	0.42	0.16	-0.09	-0.11	0	0	0	0	0	0
4/6/2024 21:31	64202	KINZ_T1	66	85	19	0.43	0.57	0.14	0	0	0	0	0	0	0	0
4/6/2024 21:31	45501	DERR_T2	0	0	0	0	0	0	-0.83	-0.83	2	2	0	1800	1800	0
4/6/2024 21:31	64203	KINZ_T1	356	554	198	0.26	0.42	0.16	-0.09	-0.11	0	0	0	0	0	0
4/6/2024 21:31	64204	KINZ_T1	41	60	19	0.56	0.64	0.08	0	0	0	0	0	0	0	0
4/6/2024 21:31	46203	DANV_T2	89	109	20	0.39	0.45	0.06	-2.41	-2.4	0	0	0	0	0	0
4/6/2024 21:31	42601	TUSC_T1	0	0	0	0	0	0	-0.65	-0.71	2	2	0	1800	1800	0
4/6/2024 21:31	66504	SMAN_T2	0	0	0	0	0	0	-1.47	-1.51	0	0	0	0	0	0
4/6/2024 21:31	56501	ROCK_T2	0	6	6	0	0.22	0.22	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 21:31	20403	ASHF_T2	0	0	0	0	0	0	0.44	0.38	0	0	0	0	0	0
4/6/2024 21:31	64201	KINZ_T1	39	73	34	0.37	0.37	0	0	0	0	0	0	0	0	0
4/6/2024 21:32	60803	BUCK_T1	6	11	5	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
4/6/2024 21:32	47001	HUGH_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
4/6/2024 21:32	24902	WHHA_T1	24	26	2	1.04	0.97	-0.07	0	0	0	0	0	0	0	0
4/6/2024 21:32	67605	WARW_T1	1	1	0	0.1	0.1	0	-1.12	-1.14	0	0	0	0	0	0
4/6/2024 21:32	45501	DERR_T2	0	0	0	0	0	0	-0.83	-0.83	2	2	0	1800	1800	0
4/6/2024 21:32	52004	LING_T2	0	1	1	0	0	0	-0.18	-0.15	0	0	0	0	0	0
4/6/2024 21:32	57401	SPAN_T1	0	0	0	0	0	0	-0.96	-0.92	1	1	0	600	600	0
4/6/2024 21:32	60801	BUCK_T1	0	11	11	0	0.12	0.12	-0.23	-0.21	0	0	0	0	0	0
4/6/2024 21:32	47002	HUGH_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
4/6/2024 21:33	42803	SELI_T1	1	0	-1	8.2	0	-8.2	0	0	0	0	0	0	0	0
4/6/2024 21:33	64201	KINZ_T1	39	73	34	0.37	0.37	0	0.74	0.76	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/6/2024 21:33	64203	KINZ_T1	356	554	198	0.26	0.42	0.16	0	0	0	0	0	0	0	0
4/6/2024 21:33	42802	SELI_T1	1	2	1	0.7	0.45	-0.25	-2.71	-2.73	0	0	0	0	0	0
4/6/2024 21:33	52004	LING_T2	0	1	1	0	0	0	-0.18	-0.15	0	0	0	0	0	0
4/6/2024 21:33	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 21:33	64202	KINZ_T1	66	85	19	0.43	0.57	0.14	0	0	0	0	0	0	0	0
4/6/2024 21:33	64204	KINZ_T1	41	60	19	0.56	0.64	0.08	0	0	0	0	0	0	0	0
4/6/2024 21:34	64201	KINZ_T1	39	73	34	0.37	0.37	0	0.74	0.76	0	0	0	0	0	0
4/6/2024 21:34	64101	REFR_T1	0	0	0	0	0	0	-0.91	-0.9	0	0	0	0	0	0
4/6/2024 21:34	56802	BENV_T2	0	0	0	0	0	0	-1.45	-1.45	0	0	0	0	0	0
4/6/2024 21:34	64203	KINZ_T1	356	554	198	0.26	0.42	0.16	0	0	0	0	0	0	0	0
4/6/2024 21:34	64202	KINZ_T1	66	85	19	0.43	0.57	0.14	0	0	0	0	0	0	0	0
4/6/2024 21:34	45003	LIME_2	1	1	0	4.2	4.5	0.3	0	0	1	1	0	1200	1200	0
4/6/2024 21:34	64204	KINZ_T1	41	60	19	0.56	0.64	0.08	0	0	0	0	0	0	0	0
4/6/2024 21:35	42903	MIDD_T2	77	118	41	0.38	0.47	0.09	0	0	0	0	0	0	0	0
4/6/2024 21:35	67502	WEWI_T2	0	0	0	0	0	0	-1.52	-1.54	1	1	0	900	900	0
4/6/2024 21:35	40901	JESH_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/6/2024 21:35	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 21:35	67605	WARW_T1	1	1	0	0.1	0.1	0	-1.12	-1.14	0	0	0	0	0	0
4/6/2024 21:35	42802	SELI_T1	1	2	1	0.7	0.45	-0.25	-1.36	-1.37	0	0	0	0	0	0
4/6/2024 21:35	60801	BUCK_T1	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
4/6/2024 21:35	57403	SPAN_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
4/6/2024 21:35	42803	SELI_T1	1	0	-1	8.2	0	-8.2	0	0	0	0	0	0	0	0
4/6/2024 21:35	60803	BUCK_T1	6	11	5	0.17	0.16	-0.01	-0.57	-0.55	1	1	0	600	600	0
4/6/2024 21:35	42901	MIDD_T2	273	398	125	0.44	0.54	0.1	0	0	0	0	0	0	0	0
4/6/2024 21:35	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 21:35	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 21:35	40902	JESH_T1	0	0	0	0	0	0	-1.53	-1.56	1	1	0	600	600	0
4/6/2024 21:35	65503	MOXO_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
4/6/2024 21:35	42902	MIDD_T2	169	216	47	0.45	0.58	0.13	-0.68	-0.68	0	0	0	0	0	0
4/6/2024 21:36	64204	KINZ_T1	41	60	19	0.56	0.64	0.08	0	0	0	0	0	0	0	0
4/6/2024 21:36	51401	LYKE_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
4/6/2024 21:36	42803	SELI_T1	1	0	-1	8.2	0	-8.2	0	0	0	0	0	0	0	0
4/6/2024 21:36	64202	KINZ_T1	66	85	19	0.43	0.57	0.14	0	0	0	0	0	0	0	0
4/6/2024 21:36	42802	SELI_T1	1	2	1	0.7	0.45	-0.25	-2.71	-2.73	0	0	0	0	0	0
4/6/2024 21:36	51402	LYKE_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
4/6/2024 21:36	64201	KINZ_T1	39	73	34	0.37	0.37	0	0	0	0	0	0	0	0	0
4/6/2024 21:36	64203	KINZ_T1	356	554	198	0.26	0.42	0.16	-0.09	-0.11	0	0	0	0	0	0
4/6/2024 21:36	40101	HUNT_T2	0	0	0	0	0	0	-0.67	-0.64	0	0	0	0	0	0
4/6/2024 21:36	60101	COCA_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
4/6/2024 21:37	57401	SPAN_T1	0	0	0	0	0	0	-0.96	-0.92	1	1	0	600	600	0
4/6/2024 21:37	45501	DERR_T2	0	0	0	0	0	0	-0.83	-0.83	2	2	0	1800	1800	0
4/6/2024 21:37	56501	ROCK_T2	0	6	6	0	0.22	0.22	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 21:37	42802	SELI_T1	1	2	1	0.7	0.45	-0.25	-1.36	-1.37	0	0	0	0	0	0
4/6/2024 21:37	51401	LYKE_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
4/6/2024 21:37	42803	SELI_T1	1	0	-1	8.2	0	-8.2	0	0	0	0	0	0	0	0
4/6/2024 21:37	51402	LYKE_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
4/6/2024 21:38	60201	ATGL_T2	0	11	11	0	0.13	0.13	0.09	0.19	0	0	0	0	0	0
4/6/2024 21:38	63802	HEMP_T1	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
4/6/2024 21:38	60801	BUCK_T1	0	11	11	0	0.12	0.12	-0.21	-0.23	0	0	0	0	0	0
4/6/2024 21:38	60803	BUCK_T1	6	11	5	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
4/6/2024 21:38	65802	RTWN_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
4/6/2024 21:38	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
4/6/2024 21:39	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
4/6/2024 21:39	57306	MOAL_T2	14	11	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
4/6/2024 21:39	60801	BUCK_T1	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
4/6/2024 21:39	57303	MOAL_T2	1	1	0	7.6	7.5	-0.1	0	0	0	0	0	0	0	0
4/6/2024 21:39	57302	MOAL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 21:39	44302	BEAV_T2	229	359	130	0.42	0.62	0.2	0	0	0	0	0	0	0	0
4/6/2024 21:39	57304	MOAL_T2	0	0	0	0	0	0	-0.36	-0.47	0	0	0	0	0	0
4/6/2024 21:39	64101	REFR_T1	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
4/6/2024 21:39	66703	STRA_T1	1	2	1	0.1	0.15	0.05	-0.34	-0.34	0	0	0	0	0	0
4/6/2024 21:39	44301	BEAV_T2	6	11	5	0.48	0.51	0.03	-0.51	-0.51	0	0	0	0	0	0
4/6/2024 21:39	60803	BUCK_T1	6	11	5	0.17	0.16	-0.01	-0.55	-0.54	1	1	0	600	600	0
4/6/2024 21:39	67502	WEWI_T2	0	0	0	0	0	0	-1.54	-1.51	1	1	0	900	900	0
4/6/2024 21:40	45402	WBLO_T2	2	2	0	0.2	0.65	0.45	-1.77	-1.78	1	1	0	900	900	0
4/6/2024 21:40	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
4/6/2024 21:40	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
4/6/2024 21:40	42902	MIDD_T2	169	216	47	0.45	0.58	0.13	-0.68	-0.69	0	0	0	0	0	0
4/6/2024 21:40	52501	PROG_T1	0	0	0	0	0	0	0.64	0.58	2	2	0	600	600	0
4/6/2024 21:40	26002	WDAM_T1	6	11	5	0.4	0.46	0.06	0	0	0	0	0	0	0	0
4/6/2024 21:40	56501	ROCK_T2	0	6	6	0	0.22	0.22	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 21:40	63803	HEMP_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
4/6/2024 21:40	67401	WAKE_T2	5	16	11	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/6/2024 21:40	26001	WDAM_T1	1	7	6	0.1	0.2	0.1	-0.74	-0.74	0	0	0	0	0	0
4/6/2024 21:40	64303	LINC_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
4/6/2024 21:40	42901	MIDD_T2	273	398	125	0.44	0.54	0.1	0	0	0	0	0	0	0	0
4/6/2024 21:40	42903	MIDD_T2	77	118	41	0.38	0.47	0.09	0	0	0	0	0	0	0	0
4/6/2024 21:40	60802	BUCK_T2	0	1	1	0	0.1	0.1	0.16	0.16	0	0	0	0	0	0
4/6/2024 21:40	11804	PEAN_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
4/6/2024 21:41	63804	HEMP_T1	1	1	0	5.8	5.8	0	0.34	0.27	0	0	0	0	0	0
4/6/2024 21:41	20403	ASHF_T2	0	0	0	0	0	0	0.19	0.23	0	0	0	0	0	0
4/6/2024 21:41	42903	MIDD_T2	77	118	41	0.38	0.47	0.09	0	0	0	0	0	0	0	0
4/6/2024 21:41	52501	PROG_T1	0	0	0	0	0	0	0.32	0.29	1	1	0	300	300	0
4/6/2024 21:41	53902	HALI_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
4/6/2024 21:41	57401	SPAN_T1	0	0	0	0	0	0	-1.83	-1.93	2	2	0	1200	1200	0
4/6/2024 21:41	42902	MIDD_T2	169	216	47	0.45	0.58	0.13	-0.68	-0.69	0	0	0	0	0	0
4/6/2024 21:41	20401	ASHF_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
4/6/2024 21:41	57302	MOAL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 21:41	53903	HALI_T2	0	2	2	0	1.2	1.2	-0.15	-0.19	0	0	0	0	0	0
4/6/2024 21:41	57306	MOAL_T2	14	11	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
4/6/2024 21:41	57304	MOAL_T2	0	0	0	0	0	0	-0.36	-0.47	0	0	0	0	0	0
4/6/2024 21:41	56802	BENV_T2	0	0	0	0	0	0	-2.9	-2.96	0	0	0	0	0	0
4/6/2024 21:41	53901	HALI_T2	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
4/6/2024 21:41	42201	SHEN_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
4/6/2024 21:41	42901	MIDD_T2	273	398	125	0.44	0.54	0.1	0	0	0	0	0	0	0	0
4/6/2024 21:41	56501	ROCK_T2	0	6	6	0	0.22	0.22	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 21:41	66303	MCGO_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/6/2024 21:41	66302	MCGO_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
4/6/2024 21:41	57303	MOAL_T2	1	1	0	7.6	7.5	-0.1	0	0	0	0	0	0	0	0
4/6/2024 21:42	64204	KINZ_T1	41	60	19	0.56	0.64	0.08	0	0	0	0	0	0	0	0
4/6/2024 21:42	60803	BUCK_T1	6	11	5	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
4/6/2024 21:42	65001	NEFF_T2	0	4	4	0	0.1	0.1	-1.44	-1.45	1	1	0	1200	1200	0
4/6/2024 21:42	57401	SPAN_T1	0	0	0	0	0	0	-0.92	-0.97	1	1	0	600	600	0
4/6/2024 21:42	64202	KINZ_T1	66	85	19	0.43	0.57	0.14	0	0	0	0	0	0	0	0
4/6/2024 21:42	56802	BENV_T2	0	0	0	0	0	0	-1.45	-1.48	0	0	0	0	0	0
4/6/2024 21:42	65804	RTWN_T1	0	0	0	0	0	0	-0.26	-0.25	1	1	0	600	600	0
4/6/2024 21:42	59202	THOM_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/6/2024 21:42	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
4/6/2024 21:42	67401	WAKE_T2	5	16	11	0.1	0.13	0.03	-1.86	-1.92	0	0	0	0	0	0
4/6/2024 21:42	45003	LIME_2	1	1	0	4.2	4.5	0.3	0	0	1	1	0	1200	1200	0
4/6/2024 21:42	45501	DERR_T2	0	0	0	0	0	0	-0.83	-0.87	2	2	0	1800	1800	0
4/6/2024 21:42	56801	BENV_T1	12	14	2	0.91	0.81	-0.1	-0.79	-0.77	1	1	0	600	600	0
4/6/2024 21:42	64203	KINZ_T1	356	554	198	0.26	0.42	0.16	-0.11	-0.1	0	0	0	0	0	0
4/6/2024 21:42	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
4/6/2024 21:42	64201	KINZ_T1	39	73	34	0.37	0.37	0	0	0	0	0	0	0	0	0
4/6/2024 21:42	60801	BUCK_T1	0	11	11	0	0.12	0.12	-0.21	-0.23	0	0	0	0	0	0
4/6/2024 21:43	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/6/2024 21:43	56802	BENV_T2	0	0	0	0	0	0	-2.9	-2.96	0	0	0	0	0	0
4/6/2024 21:43	45402	WBLO_T2	2	2	0	0.2	0.65	0.45	-1.77	-1.78	1	1	0	900	900	0
4/6/2024 21:43	64802	MONE_T2	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
4/6/2024 21:43	14404	SSLA_T1	1	1	0	4.3	4.5	0.2	0	0	0	0	0	0	0	0
4/6/2024 21:43	14402	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/6/2024 21:43	14403	SSLA_T1	0	0	0	0	0	0	0.71	0.73	0	0	0	0	0	0
4/6/2024 21:43	59101	WALK_T2	0	0	0	0	0	0	1.04	1.17	0	0	0	0	0	0
4/6/2024 21:43	42802	SELI_T1	1	2	1	0.7	0.45	-0.25	-1.37	-1.39	0	0	0	0	0	0
4/6/2024 21:43	42803	SELI_T1	1	0	-1	8.2	0	-8.2	0	0	0	0	0	0	0	0
4/6/2024 21:43	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 21:44	45501	DERR_T2	0	0	0	0	0	0	-0.83	-0.87	2	2	0	1800	1800	0
4/6/2024 21:44	55002	NEWP_T1	4	6	2	0.43	0.58	0.15	-0.26	-0.24	0	0	0	0	0	0
4/6/2024 21:45	42901	MIDD_T2	313	515	202	0.46	0.6	0.14	0	0	0	0	0	0	0	0
4/6/2024 21:45	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 21:45	59302	MCAL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/6/2024 21:45	59301	MCAL_T1	2	2	0	0.4	0.7	0.3	-1.87	-1.89	1	1	0	600	600	0
4/6/2024 21:45	58402	MORO_T1	0	0	0	0	0	0	-0.51	-0.51	2	2	0	1500	1500	0
4/6/2024 21:45	42903	MIDD_T2	90	153	63	0.37	0.59	0.22	0	0	0	0	0	0	0	0
4/6/2024 21:45	45501	DERR_T2	0	0	0	0	0	0	-0.83	-0.87	2	2	0	1800	1800	0
4/6/2024 21:45	42902	MIDD_T2	177	266	89	0.49	0.7	0.21	-0.68	-0.69	0	0	0	0	0	0
4/6/2024 21:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/6/2024 21:45	67901	WNHO_T2	164	215	51	0.5	0.69	0.19	-0.63	-0.6	0	0	0	0	0	0
4/6/2024 21:45	46203	DANV_T2	100	132	32	0.4	0.47	0.07	-2.4	-2.41	0	0	0	0	0	0
4/6/2024 21:46	63801	HEMP_T1	0	63	63	0	0.18	0.18	0	0	0	0	0	0	0	0
4/6/2024 21:46	45402	WBLO_T2	2	2	0	0.5	0.8	0.3	-1.77	-1.78	1	1	0	900	900	0
4/6/2024 21:46	55001	NEWP_T1	0	9	9	0	0.13	0.13	0	0	0	0	0	0	0	0
4/6/2024 21:46	53903	HALI_T2	2	2	0	0.6	1.35	0.75	-0.15	-0.19	0	0	0	0	0	0
4/6/2024 21:46	63801	HEMP_T1	0	36	36	0	0.14	0.14	-0.42	-0.45	0	0	0	0	0	0
4/6/2024 21:46	45702	LIND_T2	1	1	0	0.2	0.1	-0.1	-0.54	-0.55	0	0	0	0	0	0
4/6/2024 21:46	53901	HALI_T2	1	1	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
4/6/2024 21:46	43102	SMIL_T2	3	4	1	0.2	0.38	0.18	0	0	0	0	0	0	0	0
4/6/2024 21:46	52501	PROG_T1	0	0	0	0	0	0	0.32	0.29	1	1	0	300	300	0
4/6/2024 21:46	42802	SELI_T1	1	4	3	0.8	0.15	-0.65	-1.37	-1.39	0	0	0	0	0	0
4/6/2024 21:46	63804	HEMP_T1	1	5	4	5.8	1.24	-4.56	0	0	0	0	0	0	0	0
4/6/2024 21:46	63802	HEMP_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
4/6/2024 21:46	55002	NEWP_T1	4	6	2	0.65	0.82	0.17	-0.52	-0.48	0	0	0	0	0	0
4/6/2024 21:46	53902	HALI_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
4/6/2024 21:46	43101	SMIL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/6/2024 21:46	43104	SMIL_T2	0	0	0	0	0	0	-0.83	-0.83	1	1	0	300	300	0
4/6/2024 21:47	52402	GRPA_T2	4	4	0	1.05	1.3	0.25	-0.86	-0.84	0	0	0	0	0	0
4/6/2024 21:47	46203	DANV_T2	100	132	32	0.4	0.47	0.07	-2.4	-2.41	0	0	0	0	0	0
4/6/2024 21:47	41902	REED_T1	0	0	0	0	0	0	1.76	1.78	0	0	0	0	0	0
4/6/2024 21:47	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
4/6/2024 21:47	46801	HEPB_T2	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
4/6/2024 21:47	59101	WALK_T2	0	0	0	0	0	0	1.04	1.17	0	0	0	0	0	0
4/6/2024 21:47	57403	SPAN_T1	0	8	8	0	0.14	0.14	0.03	0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/6/2024 21:47	46206	DANV_T2	0	1	1	0	0	0	1.88	1.91	1	1	0	1200	1200	0
4/6/2024 21:47	42802	SELI_T1	1	4	3	0.8	0.15	-0.65	-2.73	-2.77	0	0	0	0	0	0
4/6/2024 21:47	57401	SPAN_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/6/2024 21:48	41902	REED_T1	0	0	0	0	0	0	0.88	0.89	0	0	0	0	0	0
4/6/2024 21:48	46801	HEPB_T2	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
4/6/2024 21:48	58402	MORO_T1	0	0	0	0	0	0	-0.51	-0.51	2	2	0	1500	1500	0
4/6/2024 21:48	42802	SELI_T1	1	4	3	0.8	0.15	-0.65	-1.37	-1.39	0	0	0	0	0	0
4/6/2024 21:49	56501	ROCK_T2	1	73	72	0.2	0.17	-0.03	-0.01	-0.01	0	0	0	0	0	0
4/6/2024 21:51	52402	GRPA_T2	4	4	0	1.05	1.3	0.25	-0.86	-0.84	0	0	0	0	0	0
4/6/2024 21:53	40902	JESH_T1	0	0	0	0	0	0	-1.6	-1.56	1	1	0	600	600	0
4/6/2024 21:53	40901	JESH_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/6/2024 21:54	52403	GRPA_T2	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
4/6/2024 21:54	52402	GRPA_T2	4	4	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
4/6/2024 21:58	42802	SELI_T1	1	4	3	0.8	0.15	-0.65	-1.39	-1.41	0	0	0	0	0	0
4/6/2024 22:00	63803	HEMP_T1	0	71	71	0	0.19	0.19	0	0	0	0	0	0	0	0
4/6/2024 22:00	65804	RTWN_T1	0	0	0	0	0	0	-0.25	-0.26	1	1	0	600	600	0
4/6/2024 22:00	63804	HEMP_T1	1	5	4	6.1	1.24	-4.86	0	0	0	0	0	0	0	0
4/6/2024 22:00	63802	HEMP_T1	0	6	6	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0
4/6/2024 22:00	63801	HEMP_T1	0	69	69	0	0.14	0.14	0	0	0	0	0	0	0	0
4/6/2024 22:29	10805	CHHI_T2	1	6	5	7.3	7.5	0.2	-1.14	-1.08	0	0	0	0	0	0
4/7/2024 7:54	26002	WDAM_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/7/2024 7:54	26001	WDAM_T1	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
4/7/2024 7:59	64201	KINZ_T1	6	7	1	0.47	0.49	0.02	0	0	0	0	0	0	0	0
4/7/2024 7:59	64202	KINZ_T1	13	12	-1	0.23	0.28	0.05	0	0	0	0	0	0	0	0
4/7/2024 7:59	64204	KINZ_T1	15	15	0	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
4/7/2024 7:59	64203	KINZ_T1	28	32	4	0.15	0.15	0	-0.1	-0.03	0	0	0	0	0	0
4/7/2024 8:14	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
4/7/2024 8:14	46801	HEPB_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
4/7/2024 8:17	46801	HEPB_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
4/7/2024 8:17	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
4/7/2024 8:18	24902	WHHA_T1	10	12	2	0.98	1.09	0.11	0	0	0	0	0	0	0	0
4/7/2024 8:21	59101	WALK_T2	0	0	0	0	0	0	1.7	1.33	0	0	0	0	0	0
4/7/2024 8:51	67605	WARW_T1	11	15	4	0.37	0.53	0.16	-0.98	-0.98	0	0	0	0	0	0
4/7/2024 8:53	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
4/7/2024 8:53	67401	WAKE_T2	24	33	9	0.13	0.15	0.02	0	0	0	0	0	0	0	0
4/7/2024 8:56	67605	WARW_T1	11	15	4	0.37	0.53	0.16	-0.98	-0.98	0	0	0	0	0	0
4/7/2024 9:00	64702	LITI_T2	0	0	0	0	0	0	-1.38	-1.57	0	0	0	0	0	0
4/7/2024 9:01	64702	LITI_T2	0	0	0	0	0	0	-0.69	-0.78	0	0	0	0	0	0
4/7/2024 9:08	10801	CHHI_T1	0	0	0	0	0	0	-1.63	-1.61	2	2	0	1500	1500	0
4/7/2024 9:13	63803	HEMP_T1	0	64	64	0	0.18	0.18	0	0	0	0	0	0	0	0
4/7/2024 9:13	63804	HEMP_T1	1	6	5	6.4	1.1	-5.3	0	0	0	0	0	0	0	0
4/7/2024 9:13	63801	HEMP_T1	2	45	43	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
4/7/2024 9:13	63802	HEMP_T1	0	3	3	0	0.13	0.13	0.17	0.1	0	0	0	0	0	0
4/7/2024 9:16	63803	HEMP_T1	4	64	60	0.15	0.19	0.04	0	0	0	0	0	0	0	0
4/7/2024 9:16	63802	HEMP_T1	0	3	3	0	0.13	0.13	0.17	0.1	0	0	0	0	0	0
4/7/2024 9:16	63804	HEMP_T1	1	6	5	6.2	1.1	-5.1	0	0	0	0	0	0	0	0
4/7/2024 9:16	63801	HEMP_T1	7	45	38	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
4/7/2024 9:17	64202	KINZ_T1	61	76	15	0.53	0.66	0.13	0	0	0	0	0	0	0	0
4/7/2024 9:17	64203	KINZ_T1	405	733	328	0.31	0.5	0.19	-0.06	-0.08	0	0	0	0	0	0
4/7/2024 9:17	64201	KINZ_T1	44	105	61	0.46	0.44	-0.02	0	0	0	0	0	0	0	0
4/7/2024 9:17	64204	KINZ_T1	60	246	186	0.57	0.34	-0.23	0	0	0	0	0	0	0	0
4/7/2024 9:22	67401	WAKE_T2	27	77	50	0.15	0.23	0.08	0	0	0	0	0	0	0	0
4/7/2024 9:22	67402	WAKE_T2	0	2	2	0	0.1	0.1	0.21	0.2	0	0	0	0	0	0
4/7/2024 9:25	59101	WALK_T2	1	0	-1	0.3	0	-0.3	2.9	2.67	0	0	0	0	0	0
4/7/2024 9:25	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/7/2024 9:29	63803	HEMP_T1	4	64	60	0.15	0.19	0.04	0	0	0	0	0	0	0	0
4/7/2024 9:29	63804	HEMP_T1	1	6	5	6.2	1.1	-5.1	0	0	0	0	0	0	0	0
4/7/2024 9:29	63801	HEMP_T1	7	45	38	0.27	0.22	-0.05	0.01	-0.37	0	0	0	0	0	0
4/7/2024 9:29	63802	HEMP_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/7/2024 9:31	63804	HEMP_T1	6	5	-1	1.1	1.3	0.2	0.41	0.38	0	0	0	0	0	0
4/7/2024 9:31	63801	HEMP_T1	45	22	-23	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
4/7/2024 9:31	63802	HEMP_T1	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/7/2024 9:31	63803	HEMP_T1	64	27	-37	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
4/7/2024 9:31	24902	WHHA_T1	11	10	-1	0.77	0.73	-0.04	0	0	0	0	0	0	0	0
4/7/2024 9:34	63802	HEMP_T1	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/7/2024 9:34	63803	HEMP_T1	64	27	-37	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
4/7/2024 9:34	63801	HEMP_T1	45	22	-23	0.22	0.21	-0.01	0.01	-0.37	0	0	0	0	0	0
4/7/2024 9:34	63804	HEMP_T1	6	5	-1	1.1	1.3	0.2	0	0	0	0	0	0	0	0
4/7/2024 9:35	67204	TEHI_T2	2	25	23	0.65	0.2	-0.45	0.03	0.04	0	0	0	0	0	0
4/7/2024 9:35	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
4/7/2024 9:36	67605	WARW_T1	18	26	8	0.67	0.65	-0.02	-0.98	-1	0	0	0	0	0	0
4/7/2024 9:36	67605	WARW_T1	18	26	8	0.67	0.65	-0.02	-0.98	-1	0	0	0	0	0	0
4/7/2024 9:36	67605	WARW_T1	18	26	8	0.67	0.65	-0.02	-0.98	-1	0	0	0	0	0	0
4/7/2024 9:36	67605	WARW_T1	18	26	8	0.67	0.65	-0.02	-0.98	-1	0	0	0	0	0	0
4/7/2024 9:40	67402	WAKE_T2	1	5	4	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/7/2024 9:40	67401	WAKE_T2	66	87	21	0.23	0.26	0.03	-0.94	-0.94	0	0	0	0	0	0
4/7/2024 9:40	10801	CHHI_T1	0	1	1	0	0.1	0.1	-1.6	-1.61	2	2	0	1500	1500	0
4/7/2024 9:41	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 9:41	67605	WARW_T1	18	26	8	0.67	0.65	-0.02	-1	-0.97	0	0	0	0	0	0
4/7/2024 9:41	46203	DANV_T2	8	19	11	0.4	0.36	-0.04	-2.31	-2.32	0	0	0	0	0	0
4/7/2024 9:42	67204	TEHI_T2	2	25	23	0.65	0.2	-0.45	0.04	0.03	0	0	0	0	0	0
4/7/2024 9:42	41801	GOCI_T2	101	38	-63	0.29	0.22	-0.07	0	0	0	0	0	0	0	0
4/7/2024 9:43	46203	DANV_T2	8	19	11	0.4	0.36	-0.04	-2.31	-2.32	0	0	0	0	0	0
4/7/2024 9:43	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 9:44	64203	KINZ_T1	633	824	191	0.42	0.66	0.24	0	0	0	0	0	0	0	0
4/7/2024 9:44	64202	KINZ_T1	73	96	23	0.58	0.61	0.03	0	0	0	0	0	0	0	0
4/7/2024 9:44	64204	KINZ_T1	71	386	315	0.59	0.38	-0.21	0	0	0	0	0	0	0	0
4/7/2024 9:44	64201	KINZ_T1	88	111	23	0.38	0.5	0.12	0.79	0.81	0	0	0	0	0	0
4/7/2024 9:45	63802	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/7/2024 9:45	63804	HEMP_T1	5	2	-3	1.3	6.3	5	0	0	0	0	0	0	0	0
4/7/2024 9:45	63803	HEMP_T1	27	0	-27	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/7/2024 9:45	41801	GOCI_T2	35	78	43	0.21	0.26	0.05	0	0	0	0	0	0	0	0
4/7/2024 9:45	63801	HEMP_T1	22	2	-20	0.21	0.35	0.14	-0.37	-0.33	0	0	0	0	0	0
4/7/2024 9:46	64201	KINZ_T1	91	109	18	0.46	0.49	0.03	0	0	0	0	0	0	0	0
4/7/2024 9:46	64204	KINZ_T1	244	390	146	0.34	0.38	0.04	0	0	0	0	0	0	0	0
4/7/2024 9:46	64202	KINZ_T1	70	96	26	0.67	0.62	-0.05	0	0	0	0	0	0	0	0
4/7/2024 9:46	64203	KINZ_T1	719	830	111	0.5	0.67	0.17	-0.09	-0.12	0	0	0	0	0	0
4/7/2024 9:47	17002	RIRO_T2	2	2	0	0.85	0.75	-0.1	0.34	0.36	0	0	0	0	0	0
4/7/2024 9:47	43201	MVIL_T2	0	1	1	0	0.2	0.2	-0.39	-0.41	0	0	0	0	0	0
4/7/2024 9:48	56504	ROCK_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/7/2024 9:48	56501	ROCK_T2	39	41	2	0.21	0.25	0.04	-0.02	-0.02	0	0	0	0	0	0
4/7/2024 9:49	63803	HEMP_T1	27	0	-27	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/7/2024 9:49	63804	HEMP_T1	5	2	-3	1.3	6.3	5	0	0	0	0	0	0	0	0
4/7/2024 9:49	63802	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/7/2024 9:49	63801	HEMP_T1	22	2	-20	0.21	0.35	0.14	-0.37	-0.33	0	0	0	0	0	0
4/7/2024 9:50	56504	ROCK_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/7/2024 9:50	56501	ROCK_T2	39	41	2	0.21	0.25	0.04	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 9:50	41902	REED_T1	0	0	0	0	0	0	2.74	2.64	0	0	0	0	0	0
4/7/2024 9:51	67605	WARW_T1	21	26	5	0.65	0.65	0	-1	-0.97	0	0	0	0	0	0
4/7/2024 9:51	67204	TEHI_T2	4	25	21	0.5	0.2	-0.3	0.04	0.03	0	0	0	0	0	0
4/7/2024 9:52	67902	WNHO_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/7/2024 9:52	67901	WNHO_T2	158	168	10	0.6	0.63	0.03	-0.62	-0.58	0	0	0	0	0	0
4/7/2024 9:52	67605	WARW_T1	21	26	5	0.65	0.65	0	-1	-0.97	0	0	0	0	0	0
4/7/2024 9:52	67204	TEHI_T2	4	25	21	0.5	0.2	-0.3	0.04	0.03	0	0	0	0	0	0
4/7/2024 9:52	56504	ROCK_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/7/2024 9:52	60101	COCA_T1	3	4	1	0.53	0.48	-0.05	0.24	0.22	0	0	0	0	0	0
4/7/2024 9:52	56501	ROCK_T2	39	41	2	0.21	0.25	0.04	-0.04	-0.04	0	0	0	0	0	0
4/7/2024 9:53	56802	BENV_T2	4	2	-2	0.38	0.2	-0.18	-1.43	-1.44	0	0	0	0	0	0
4/7/2024 9:55	56504	ROCK_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/7/2024 9:55	56802	BENV_T2	4	2	-2	0.38	0.2	-0.18	-2.86	-2.88	0	0	0	0	0	0
4/7/2024 9:55	60101	COCA_T1	3	4	1	0.53	0.48	-0.05	0.22	0.24	0	0	0	0	0	0
4/7/2024 9:55	56501	ROCK_T2	39	41	2	0.21	0.25	0.04	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 9:56	56802	BENV_T2	4	2	-2	0.38	0.2	-0.18	-2.86	-2.88	0	0	0	0	0	0
4/7/2024 9:56	67605	WARW_T1	21	26	5	0.65	0.65	0	-0.97	-0.98	0	0	0	0	0	0
4/7/2024 9:57	56802	BENV_T2	4	2	-2	0.38	0.2	-0.18	-1.43	-1.44	0	0	0	0	0	0
4/7/2024 9:57	40101	HUNT_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
4/7/2024 9:58	40101	HUNT_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
4/7/2024 10:00	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/7/2024 10:00	53801	MBRG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/7/2024 10:00	63801	HEMP_T1	2	2	0	0.35	0.3	-0.05	-0.33	-0.3	0	0	0	0	0	0
4/7/2024 10:00	40101	HUNT_T2	0	1	1	0	0.2	0.2	-2.01	-2.04	0	0	0	0	0	0
4/7/2024 10:00	53902	HALI_T2	3	3	0	2.37	2.53	0.16	0	0	0	0	0	0	0	0
4/7/2024 10:00	41902	REED_T1	0	0	0	0	0	0	2.64	2.71	0	0	0	0	0	0
4/7/2024 10:00	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 10:00	42901	MIDD_T2	399	402	3	0.53	0.51	-0.02	0	0	0	0	0	0	0	0
4/7/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.47	0.43	0	0	0	0	0	0
4/7/2024 10:00	45602	WOOL_T1	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
4/7/2024 10:00	45902	AUBU_T1	0	1	1	0	0.2	0.2	-0.48	-0.5	0	0	0	0	0	0
4/7/2024 10:00	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 10:00	56504	ROCK_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
4/7/2024 10:00	55002	NEWP_T1	11	9	-2	0.99	0.88	-0.11	-0.38	-0.36	0	0	0	0	0	0
4/7/2024 10:00	10801	CHHI_T1	1	0	-1	0.1	0	-0.1	-3.23	-3.26	4	4	0	3000	3000	0
4/7/2024 10:00	12505	MITR_T2	0	0	0	0	0	0	1.55	1.52	0	0	0	0	0	0
4/7/2024 10:00	63804	HEMP_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
4/7/2024 10:00	57303	MOAL_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
4/7/2024 10:00	29402	BELT_T1	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
4/7/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.86	0.93	0	0	0	0	0	0
4/7/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-1.48	-1.49	1	1	0	600	600	0
4/7/2024 10:00	60803	BUCK_T1	14	19	5	0.36	0.29	-0.07	0	0	0	0	0	0	0	0
4/7/2024 10:00	42902	MIDD_T2	231	235	4	0.61	0.55	-0.06	0	0	0	0	0	0	0	0
4/7/2024 10:00	67402	WAKE_T2	5	3	-2	0.2	0.23	0.03	0.39	0.37	0	0	0	0	0	0
4/7/2024 10:00	53903	HALI_T2	10	8	-2	0.51	0.78	0.27	-0.15	-0.1	0	0	0	0	0	0
4/7/2024 10:00	62606	ENGL_T1	0	2	2	0	4.6	4.6	0	0	0	0	0	0	0	0
4/7/2024 10:00	52001	LING_T1	0	0	0	0	0	0	-1.08	-1.08	0	0	0	0	0	0
4/7/2024 10:00	60801	BUCK_T1	48	37	-11	0.37	0.33	-0.04	-0.38	-0.34	0	0	0	0	0	0
4/7/2024 10:00	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 10:00	45501	DERR_T2	1	1	0	0.1	0.5	0.4	-0.66	-0.69	2	2	0	1800	1800	0
4/7/2024 10:00	57304	MOAL_T2	1	2	1	0.1	0.2	0.1	-0.46	-0.54	0	0	0	0	0	0
4/7/2024 10:00	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
4/7/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.59	-0.58	1	1	0	600	600	0
4/7/2024 10:00	25603	ARRO_T1	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
4/7/2024 10:00	55001	NEWP_T1	2	4	2	0.7	0.38	-0.32	0	0	0	0	0	0	0	0
4/7/2024 10:00	65001	NEFF_T2	211	173	-38	0.26	0.21	-0.05	-2.65	-2.75	2	2	0	2400	2400	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/7/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
4/7/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.78	-0.89	4	4	0	3000	3000	0
4/7/2024 10:00	17002	RIRO_T2	2	2	0	0.55	0.95	0.4	0.36	0.37	0	0	0	0	0	0
4/7/2024 10:00	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 10:00	56501	ROCK_T2	38	26	-12	0.26	0.32	0.06	-0.07	-0.07	0	0	0	0	0	0
4/7/2024 10:00	40901	JESH_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
4/7/2024 10:00	65003	NEFF_T2	3	2	-1	0.23	0.4	0.17	0	0	0	0	0	0	0	0
4/7/2024 10:00	12502	MITR_T2	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
4/7/2024 10:00	42903	MIDD_T2	136	143	7	0.66	0.61	-0.05	0.03	-0.02	0	0	0	0	0	0
4/7/2024 10:00	67401	WAKE_T2	81	97	16	0.27	0.28	0.01	0	0	0	0	0	0	0	0
4/7/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.79	-0.8	1	1	0	1200	1200	0
4/7/2024 10:00	65005	NEFF_T2	2	2	0	0.3	0.55	0.25	0	0	0	0	0	0	0	0
4/7/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
4/7/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 10:00	46203	DANV_T2	19	12	-7	0.36	0.41	0.05	0	0	0	0	0	0	0	0
4/7/2024 10:00	53901	HALI_T2	1	4	3	1.4	0.5	-0.9	0	0	0	0	0	0	0	0
4/7/2024 10:00	46206	DANV_T2	0	0	0	0	0	0	1.8	1.86	1	1	0	1200	1200	0
4/7/2024 10:03	56501	ROCK_T2	38	26	-12	0.26	0.32	0.06	0	0	0	0	0	0	0	0
4/7/2024 10:03	56504	ROCK_T2	0	2	2	0	0.75	0.75	83.96	83.96	0	0	0	0	0	0
4/7/2024 10:06	55002	NEWP_T1	11	9	-2	0.99	0.88	-0.11	-0.19	-0.18	0	0	0	0	0	0
4/7/2024 10:06	67605	WARW_T1	26	20	-6	0.65	0.66	0.01	0	0	0	0	0	0	0	0
4/7/2024 10:06	67204	TEHI_T2	25	4	-21	0.2	0.55	0.35	0.03	0.02	0	0	0	0	0	0
4/7/2024 10:06	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
4/7/2024 10:06	55001	NEWP_T1	2	4	2	0.7	0.38	-0.32	0	0	0	0	0	0	0	0
4/7/2024 10:06	51401	LYKE_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
4/7/2024 10:07	67605	WARW_T1	26	20	-6	0.65	0.66	0.01	-0.97	-0.98	0	0	0	0	0	0
4/7/2024 10:07	42302	MOWR_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
4/7/2024 10:07	56504	ROCK_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
4/7/2024 10:07	57303	MOAL_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
4/7/2024 10:07	58003	WCAR_T1	1	1	0	0.8	0.7	-0.1	-0.16	-0.16	1	1	0	600	600	0
4/7/2024 10:07	57106	SPHI_T2	3	3	0	1.7	1.63	-0.07	0	0	0	0	0	0	0	0
4/7/2024 10:07	40101	HUNT_T2	0	1	1	0	0.2	0.2	-0.67	-0.68	0	0	0	0	0	0
4/7/2024 10:07	46004	BERW_T2	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
4/7/2024 10:07	57101	SPHI_T2	6	6	0	0.7	0.58	-0.12	0	0	0	0	0	0	0	0
4/7/2024 10:07	57304	MOAL_T2	1	2	1	0.1	0.2	0.1	-0.46	-0.54	0	0	0	0	0	0
4/7/2024 10:07	57104	SPHI_T2	0	4	4	0	0.43	0.43	-1.19	-1.22	0	0	0	0	0	0
4/7/2024 10:07	58001	WCAR_T1	4	4	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/7/2024 10:07	67902	WNHO_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/7/2024 10:07	60101	COCA_T1	2	7	5	0.7	0.39	-0.31	0.22	0.24	0	0	0	0	0	0
4/7/2024 10:07	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.77	1	1	0	900	900	0
4/7/2024 10:07	56501	ROCK_T2	38	26	-12	0.26	0.32	0.06	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 10:07	65702	RVIL_T2	0	0	0	0	0	0	-1.03	-1.05	1	1	0	600	600	0
4/7/2024 10:07	42301	MOWR_T2	1	1	0	4.5	4.3	-0.2	0	0	0	0	0	0	0	0
4/7/2024 10:07	67901	WNHO_T2	153	164	11	0.64	0.6	-0.04	-0.58	-0.6	0	0	0	0	0	0
4/7/2024 10:08	67605	WARW_T1	26	20	-6	0.65	0.66	0.01	-0.98	-1	0	0	0	0	0	0
4/7/2024 10:08	60801	BUCK_T1	48	37	-11	0.37	0.33	-0.04	-0.17	-0.14	0	0	0	0	0	0
4/7/2024 10:08	46005	BERW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/7/2024 10:08	60803	BUCK_T1	14	19	5	0.36	0.29	-0.07	0	0	0	0	0	0	0	0
4/7/2024 10:08	46001	BERW_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
4/7/2024 10:08	48302	ORWI_T2	2	2	0	0.5	0.55	0.05	-0.04	-0.05	0	0	0	0	0	0
4/7/2024 10:08	67204	TEHI_T2	25	4	-21	0.2	0.55	0.35	0.02	0.02	0	0	0	0	0	0
4/7/2024 10:08	58803	COCO_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
4/7/2024 10:09	26001	WDAM_T1	0	0	0	0	0	0	-0.74	-0.7	0	0	0	0	0	0
4/7/2024 10:09	26002	WDAM_T1	2	5	3	0.5	0.32	-0.18	0	0	0	0	0	0	0	0
4/7/2024 10:09	60101	COCA_T1	2	7	5	0.7	0.39	-0.31	0.24	0.2	0	0	0	0	0	0
4/7/2024 10:11	59101	WALK_T2	0	0	0	0	0	0	1.19	1.28	0	0	0	0	0	0
4/7/2024 10:11	60101	COCA_T1	2	7	5	0.7	0.39	-0.31	0.24	0.2	0	0	0	0	0	0
4/7/2024 10:11	67605	WARW_T1	26	20	-6	0.65	0.66	0.01	-0.98	-1	0	0	0	0	0	0
4/7/2024 10:11	59102	WALK_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
4/7/2024 10:12	46801	HEPB_T2	2	1	-1	0.15	0.1	-0.05	0.53	0.55	0	0	0	0	0	0
4/7/2024 10:12	46203	DANV_T2	19	12	-7	0.36	0.41	0.05	-4.64	-4.68	0	0	0	0	0	0
4/7/2024 10:12	10801	CHHI_T1	1	0	-1	0.1	0	-0.1	-1.63	-1.6	2	2	0	1500	1500	0
4/7/2024 10:12	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/7/2024 10:12	47001	HUGH_T2	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
4/7/2024 10:12	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 10:13	24902	WHHA_T1	10	9	-1	0.91	1	0.09	0	0	0	0	0	0	0	0
4/7/2024 10:14	52403	GRPA_T2	4	8	4	0.48	0.5	0.02	-0.06	-0.06	0	0	0	0	0	0
4/7/2024 10:14	12701	MACU_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
4/7/2024 10:14	41801	GOCI_T2	22	114	92	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/7/2024 10:14	52402	GRPA_T2	2	3	1	1.6	1.33	-0.27	0	0	0	0	0	0	0	0
4/7/2024 10:15	64203	KINZ_T1	760	829	69	0.64	0.76	0.12	-0.1	-0.09	0	0	0	0	0	0
4/7/2024 10:15	64201	KINZ_T1	70	150	80	0.51	0.54	0.03	0	0	0	0	0	0	0	0
4/7/2024 10:15	64204	KINZ_T1	328	526	198	0.35	0.51	0.16	0	0	0	0	0	0	0	0
4/7/2024 10:15	64202	KINZ_T1	76	101	25	0.68	0.72	0.04	0	0	0	0	0	0	0	0
4/7/2024 10:15	46801	HEPB_T2	0	1	1	0	0.1	0.1	0.53	0.55	0	0	0	0	0	0
4/7/2024 10:15	46803	HEPB_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/7/2024 10:16	41801	GOCI_T2	77	118	41	0.27	0.41	0.14	0	0	0	0	0	0	0	0
4/7/2024 10:16	45003	LIME_2	1	1	0	4.5	4.8	0.3	0	0	1	1	0	1200	1200	0
4/7/2024 10:16	65003	NEFF_T2	2	3	1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
4/7/2024 10:16	64202	KINZ_T1	76	101	25	0.68	0.72	0.04	0	0	0	0	0	0	0	0
4/7/2024 10:16	63602	LETO_T1	0	1	1	0	0.5	0.5	-0.49	-0.56	0	0	0	0	0	0
4/7/2024 10:16	65005	NEFF_T2	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
4/7/2024 10:16	64201	KINZ_T1	70	150	80	0.51	0.54	0.03	0	0	0	0	0	0	0	0
4/7/2024 10:16	64203	KINZ_T1	760	829	69	0.64	0.76	0.12	-0.21	-0.19	0	0	0	0	0	0
4/7/2024 10:16	64204	KINZ_T1	328	526	198	0.35	0.51	0.16	0	0	0	0	0	0	0	0
4/7/2024 10:16	65001	NEFF_T2	164	148	-16	0.2	0.18	-0.02	-1.37	-1.3	1	1	0	1200	1200	0
4/7/2024 10:16	45001	LIME_2	14	30	16	0.24	0.32	0.08	0	0	0	0	0	0	0	0
4/7/2024 10:16	25402	LAHA_T2	0	1	1	0	0	0	-0.69	-0.64	0	0	0	0	0	0
4/7/2024 10:17	45001	LIME_2	14	30	16	0.24	0.32	0.08	0	0	0	0	0	0	0	0
4/7/2024 10:17	64204	KINZ_T1	328	526	198	0.35	0.51	0.16	0	0	0	0	0	0	0	0
4/7/2024 10:17	64201	KINZ_T1	70	150	80	0.51	0.54	0.03	0	0	0	0	0	0	0	0
4/7/2024 10:17	64203	KINZ_T1	760	829	69	0.64	0.76	0.12	-0.1	-0.09	0	0	0	0	0	0
4/7/2024 10:17	45003	LIME_2	1	1	0	4.5	4.8	0.3	0	0	1	1	0	1200	1200	0
4/7/2024 10:17	16402	MOPO_T1	0	0	0	0	0	0	-0.16	-0.02	0	0	0	0	0	0
4/7/2024 10:17	64202	KINZ_T1	76	101	25	0.68	0.72	0.04	0	0	0	0	0	0	0	0
4/7/2024 10:17	41801	GOCI_T2	77	118	41	0.27	0.41	0.14	0	0	0	0	0	0	0	0
4/7/2024 10:17	12701	MACU_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
4/7/2024 10:18	43201	MVIL_T2	1	1	0	0.2	0.1	-0.1	-0.41	-0.4	0	0	0	0	0	0
4/7/2024 10:18	47001	HUGH_T2	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
4/7/2024 10:18	46803	HEPB_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/7/2024 10:18	46801	HEPB_T2	0	1	1	0	0.1	0.1	0.53	0.55	0	0	0	0	0	0
4/7/2024 10:19	56504	ROCK_T2	1	2	1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
4/7/2024 10:19	56501	ROCK_T2	25	19	-6	0.3	0.42	0.12	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 10:20	67502	WEWI_T2	3	6	3	0.5	0.45	-0.05	-1.5	-1.55	1	1	0	900	900	0
4/7/2024 10:21	56501	ROCK_T2	25	19	-6	0.3	0.42	0.12	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 10:21	56504	ROCK_T2	1	2	1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
4/7/2024 10:22	57401	SPAN_T1	1	5	4	0.1	0.46	0.36	-1.11	-1.17	1	1	0	600	600	0
4/7/2024 10:22	20401	ASHF_T2	0	2	2	0	0.1	0.1	-0.39	-0.43	0	0	0	0	0	0
4/7/2024 10:22	67401	WAKE_T2	61	121	60	0.27	0.29	0.02	-0.94	-0.91	0	0	0	0	0	0
4/7/2024 10:22	67502	WEWI_T2	3	6	3	0.5	0.45	-0.05	-1.5	-1.55	1	1	0	900	900	0
4/7/2024 10:22	57403	SPAN_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/7/2024 10:22	67402	WAKE_T2	1	2	1	0.2	0.25	0.05	0.19	0.21	0	0	0	0	0	0
4/7/2024 10:22	56802	BENV_T2	1	3	2	0.2	0.43	0.23	-1.44	-1.41	0	0	0	0	0	0
4/7/2024 10:23	57401	SPAN_T1	1	5	4	0.1	0.46	0.36	-2.34	-2.38	2	2	0	1200	1200	0
4/7/2024 10:23	56802	BENV_T2	1	3	2	0.2	0.43	0.23	-1.41	-1.48	0	0	0	0	0	0
4/7/2024 10:23	44301	BEAV_T2	10	12	2	0.42	0.43	0.01	0	0	0	0	0	0	0	0
4/7/2024 10:23	44302	BEAV_T2	359	377	18	0.58	0.57	-0.01	0.26	0.27	0	0	0	0	0	0
4/7/2024 10:23	57403	SPAN_T1	1	1	0	0.6	0.6	0	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 10:24	46204	DANV_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/7/2024 10:24	46203	DANV_T2	6	29	23	0.43	0.26	-0.17	-2.34	-2.38	0	0	0	0	0	0
4/7/2024 10:25	45501	DERR_T2	1	1	0	0.2	0.5	0.3	-0.68	-0.64	2	2	0	1800	1800	0
4/7/2024 10:25	56802	BENV_T2	1	3	2	0.2	0.43	0.23	-1.41	-1.48	0	0	0	0	0	0
4/7/2024 10:25	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 10:26	56802	BENV_T2	1	3	2	0.2	0.43	0.23	-2.83	-2.96	0	0	0	0	0	0
4/7/2024 10:27	60101	COCA_T1	4	5	1	0.48	0.42	-0.06	0.41	0.47	0	0	0	0	0	0
4/7/2024 10:27	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 10:27	56802	BENV_T2	1	3	2	0.2	0.43	0.23	-1.41	-1.48	0	0	0	0	0	0
4/7/2024 10:27	45501	DERR_T2	1	1	0	0.2	0.5	0.3	-1.35	-1.27	4	4	0	3600	3600	0
4/7/2024 10:27	53901	HALI_T2	3	3	0	0.63	0.57	-0.06	0	0	0	0	0	0	0	0
4/7/2024 10:27	67605	WARW_T1	20	18	-2	0.64	0.54	-0.1	-1	-0.98	0	0	0	0	0	0
4/7/2024 10:27	53902	HALI_T2	3	4	1	2.4	2	-0.4	0	0	0	0	0	0	0	0
4/7/2024 10:27	53903	HALI_T2	7	10	3	0.8	0.75	-0.05	-0.15	-0.14	0	0	0	0	0	0
4/7/2024 10:27	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 10:29	53901	HALI_T2	3	3	0	0.63	0.57	-0.06	0	0	0	0	0	0	0	0
4/7/2024 10:29	53902	HALI_T2	3	4	1	2.4	2	-0.4	0	0	0	0	0	0	0	0
4/7/2024 10:29	53903	HALI_T2	7	10	3	0.8	0.75	-0.05	-0.15	-0.14	0	0	0	0	0	0
4/7/2024 10:31	53903	HALI_T2	8	12	4	0.66	0.7	0.04	-0.15	-0.14	0	0	0	0	0	0
4/7/2024 10:31	53902	HALI_T2	3	4	1	2.37	1.98	-0.39	0	0	0	0	0	0	0	0
4/7/2024 10:31	53901	HALI_T2	3	3	0	0.53	0.57	0.04	0	0	0	0	0	0	0	0
4/7/2024 10:32	52402	GRPA_T2	2	4	2	1.8	1.25	-0.55	-1.97	-1.81	0	0	0	0	0	0
4/7/2024 10:32	12701	MACU_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
4/7/2024 10:32	52403	GRPA_T2	7	9	2	0.46	0.39	-0.07	0	0	0	0	0	0	0	0
4/7/2024 10:35	42901	MIDD_T2	361	501	140	0.49	0.52	0.03	0	0	0	0	0	0	0	0
4/7/2024 10:35	42903	MIDD_T2	123	172	49	0.5	0.63	0.13	0	0	0	0	0	0	0	0
4/7/2024 10:35	42902	MIDD_T2	217	248	31	0.53	0.63	0.1	-0.65	-0.67	0	0	0	0	0	0
4/7/2024 10:36	66504	SMAN_T2	2	0	-2	0.35	0	-0.35	-1.31	-1.32	0	0	0	0	0	0
4/7/2024 10:36	57401	SPAN_T1	5	2	-3	0.34	0.95	0.61	-2.34	-2.38	2	2	0	1200	1200	0
4/7/2024 10:36	59101	WALK_T2	0	0	0	0	0	0	1.28	1.48	0	0	0	0	0	0
4/7/2024 10:36	66502	SMAN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/7/2024 10:36	57403	SPAN_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/7/2024 10:36	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/7/2024 10:36	59102	WALK_T2	2	3	1	0.25	0.6	0.35	0	0	0	0	0	0	0	0
4/7/2024 10:36	66505	SMAN_T2	2	4	2	0.35	0.38	0.03	0	0	0	0	0	0	0	0
4/7/2024 10:37	67402	WAKE_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
4/7/2024 10:37	67401	WAKE_T2	92	129	37	0.28	0.28	0	-0.91	-0.94	0	0	0	0	0	0
4/7/2024 10:37	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 10:38	15001	BLMO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/7/2024 10:39	57401	SPAN_T1	5	2	-3	0.34	0.95	0.61	-1.19	-1.19	1	1	0	600	600	0
4/7/2024 10:39	57403	SPAN_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/7/2024 10:39	15001	BLMO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/7/2024 10:42	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 10:45	56504	ROCK_T2	2	5	3	0.25	1.06	0.81	0	0	0	0	0	0	0	0
4/7/2024 10:45	56501	ROCK_T2	16	15	-1	0.44	0.44	0	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/7/2024 10:48	65603	QVIL_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
4/7/2024 10:48	42903	MIDD_T2	155	175	20	0.64	0.66	0.02	0	0	0	0	0	0	0	0
4/7/2024 10:48	65601	QVIL_T2	7	6	-1	0.24	0.27	0.03	0	0	0	0	0	0	0	0
4/7/2024 10:48	42902	MIDD_T2	221	258	37	0.6	0.63	0.03	-0.67	-0.67	0	0	0	0	0	0
4/7/2024 10:48	65602	QVIL_T2	4	5	1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
4/7/2024 10:48	42901	MIDD_T2	425	526	101	0.52	0.5	-0.02	0	0	0	0	0	0	0	0
4/7/2024 10:49	64801	MONE_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/7/2024 10:49	64802	MONE_T2	3	3	0	0.37	0.23	-0.14	0.21	0.24	0	0	0	0	0	0
4/7/2024 10:49	59402	RFLD_T2	0	0	0	0	0	0	-0.87	-0.85	1	1	0	450	450	0
4/7/2024 10:51	59201	THOM_T1	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
4/7/2024 10:51	59202	THOM_T1	11	18	7	0.43	0.41	-0.02	0	0	0	0	0	0	0	0
4/7/2024 10:52	45402	WBLO_T2	2	4	2	4.65	0.65	-4	-3.5	-3.44	2	2	0	1800	1800	0
4/7/2024 10:53	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/7/2024 10:53	60803	BUCK_T1	18	19	1	0.32	0.36	0.04	-0.55	-0.54	1	1	0	600	600	0
4/7/2024 10:53	67605	WARW_T1	14	18	4	0.5	0.51	0.01	-1	-1	0	0	0	0	0	0
4/7/2024 10:53	40201	BEGA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/7/2024 10:53	60801	BUCK_T1	36	43	7	0.28	0.31	0.03	0	0	0	0	0	0	0	0
4/7/2024 10:53	41601	CLEV_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/7/2024 10:54	41601	CLEV_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/7/2024 10:54	67605	WARW_T1	14	18	4	0.5	0.51	0.01	0	0	0	0	0	0	0	0
4/7/2024 10:54	67603	WARW_T1	1	0	-1	0.2	0	-0.2	-0.04	-0.09	0	0	0	0	0	0
4/7/2024 10:54	57401	SPAN_T1	2	3	1	0.95	0.6	-0.35	0	0	0	0	0	0	0	0
4/7/2024 10:54	64201	SHEN_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
4/7/2024 10:54	57403	SPAN_T1	1	1	0	0.5	0.5	0	0.01	0.02	0	0	0	0	0	0
4/7/2024 10:55	41601	CLEV_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/7/2024 10:55	57403	SPAN_T1	1	1	0	0.5	0.5	0	0.01	0.02	0	0	0	0	0	0
4/7/2024 10:55	57401	SPAN_T1	2	3	1	0.95	0.6	-0.35	0	0	0	0	0	0	0	0
4/7/2024 10:56	60801	BUCK_T1	36	43	7	0.28	0.31	0.03	0	0	0	0	0	0	0	0
4/7/2024 10:56	67605	WARW_T1	14	18	4	0.5	0.51	0.01	-1	-1	0	0	0	0	0	0
4/7/2024 10:56	26002	WDAM_T1	4	4	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
4/7/2024 10:56	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/7/2024 10:56	60803	BUCK_T1	18	19	1	0.32	0.36	0.04	-0.55	-0.54	1	1	0	600	600	0
4/7/2024 10:56	26001	WDAM_T1	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
4/7/2024 10:59	63201	MGTN_T2	0	0	0	0	0	0	0.2	0.19	1	1	0	600	600	0
4/7/2024 11:00	64203	KINZ_T1	782	969	187	0.65	0.73	0.08	0	0	0	0	0	0	0	0
4/7/2024 11:00	64204	KINZ_T1	378	718	340	0.35	0.54	0.19	0	0	0	0	0	0	0	0
4/7/2024 11:00	64202	KINZ_T1	86	116	30	0.72	0.69	-0.03	0.59	0.57	0	0	0	0	0	0
4/7/2024 11:00	63201	MGTN_T2	0	0	0	0	0	0	0.2	0.19	1	1	0	600	600	0
4/7/2024 11:00	45702	LIND_T2	1	1	0	0.2	0.1	-0.1	-0.56	-0.56	0	0	0	0	0	0
4/7/2024 11:00	64201	KINZ_T1	115	156	41	0.56	0.59	0.03	0	0	0	0	0	0	0	0
4/7/2024 11:01	67605	WARW_T1	16	18	2	0.53	0.76	0.23	-1	-1	0	0	0	0	0	0
4/7/2024 11:02	42902	MIDD_T2	241	252	11	0.62	0.64	0.02	-0.67	-0.64	0	0	0	0	0	0
4/7/2024 11:02	42901	MIDD_T2	483	509	26	0.51	0.5	-0.01	0	0	0	0	0	0	0	0
4/7/2024 11:02	42903	MIDD_T2	166	176	10	0.57	0.66	0.09	0	0	0	0	0	0	0	0
4/7/2024 11:03	64203	KINZ_T1	782	969	187	0.65	0.73	0.08	0	0	0	0	0	0	0	0
4/7/2024 11:03	41902	REED_T1	0	1	1	0	0.3	0.3	1.77	1.78	0	0	0	0	0	0
4/7/2024 11:03	63201	MGTN_T2	0	0	0	0	0	0	0.41	0.38	2	2	0	1200	1200	0
4/7/2024 11:03	64204	KINZ_T1	378	718	340	0.35	0.54	0.19	0	0	0	0	0	0	0	0
4/7/2024 11:03	64201	KINZ_T1	115	156	41	0.56	0.59	0.03	1.45	1.49	0	0	0	0	0	0
4/7/2024 11:03	45001	LIME_2	40	38	-2	0.56	0.48	-0.08	0	0	0	0	0	0	0	0
4/7/2024 11:03	64202	KINZ_T1	86	116	30	0.72	0.69	-0.03	0	0	0	0	0	0	0	0
4/7/2024 11:03	44601	SALE_T2	1	1	0	0.1	0.3	0.2	-0.22	-0.21	0	0	0	0	0	0
4/7/2024 11:03	45003	LIME_2	1	3	2	4.8	1.83	-2.97	0	0	1	1	0	1200	1200	0
4/7/2024 11:04	56501	ROCK_T2	13	15	2	0.46	0.43	-0.03	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 11:04	45003	LIME_2	1	3	2	4.8	1.83	-2.97	0	0	0	0	0	0	0	0
4/7/2024 11:04	56504	ROCK_T2	5	5	0	0.66	1.04	0.38	0	0	0	0	0	0	0	0
4/7/2024 11:04	41902	REED_T1	0	1	1	0	0.3	0.3	0.88	0.89	0	0	0	0	0	0
4/7/2024 11:04	64101	REFR_T1	0	2	2	0	0.25	0.25	-0.95	-0.94	0	0	0	0	0	0
4/7/2024 11:04	45001	LIME_2	40	38	-2	0.56	0.48	-0.08	0	0	0	0	0	0	0	0
4/7/2024 11:04	45002	LIME_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 11:04	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 11:05	45003	LIME_2	1	3	2	4.8	1.83	-2.97	0	0	0	0	0	0	0	0
4/7/2024 11:05	45001	LIME_2	40	38	-2	0.56	0.48	-0.08	0	0	0	0	0	0	0	0
4/7/2024 11:05	42903	MIDD_T2	166	176	10	0.57	0.66	0.09	0	0	0	0	0	0	0	0
4/7/2024 11:05	45303	WBER_T2	9	10	1	0.84	0.79	-0.05	-0.84	-0.9	0	0	0	0	0	0
4/7/2024 11:05	63201	MGTN_T2	0	0	0	0	0	0	0.2	0.19	1	1	0	600	600	0
4/7/2024 11:05	45002	LIME_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 11:05	52501	PROG_T1	1	1	0	0.1	0.2	0.1	0.32	0.38	1	1	0	300	300	0
4/7/2024 11:05	42901	MIDD_T2	483	509	26	0.51	0.5	-0.01	0	0	0	0	0	0	0	0
4/7/2024 11:05	42902	MIDD_T2	241	252	11	0.62	0.64	0.02	-0.67	-0.64	0	0	0	0	0	0
4/7/2024 11:06	64101	REFR_T1	0	2	2	0	0.25	0.25	-0.95	-0.94	0	0	0	0	0	0
4/7/2024 11:06	67605	WARW_T1	16	18	2	0.53	0.76	0.23	-1	-1	0	0	0	0	0	0
4/7/2024 11:07	27503	WEIS_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/7/2024 11:07	27502	WEIS_T2	0	1	1	0	0.1	0.1	-0.55	-0.53	0	0	0	0	0	0
4/7/2024 11:08	44601	SALE_T2	1	1	0	0.1	0.3	0.2	-0.21	-0.21	0	0	0	0	0	0
4/7/2024 11:08	42601	TUSC_T1	8	0	-8	0.53	0	-0.53	-0.61	-0.59	2	2	0	1800	1800	0
4/7/2024 11:09	56504	ROCK_T2	5	5	0	0.66	1.04	0.38	0	0	0	0	0	0	0	0
4/7/2024 11:09	56501	ROCK_T2	13	15	2	0.46	0.43	-0.03	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 11:09	20402	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/7/2024 11:09	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.36	0.26	0	0	0	0	0	0
4/7/2024 11:09	56802	BENV_T2	4	2	-2	0.68	1.1	0.42	-4.37	-4.23	0	0	0	0	0	0
4/7/2024 11:11	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.18	0.13	0	0	0	0	0	0
4/7/2024 11:11	60801	BUCK_T1	40	38	-2	0.31	0.29	-0.02	-0.17	-0.16	0	0	0	0	0	0
4/7/2024 11:11	60803	BUCK_T1	18	18	0	0.37	0.42	0.05	0	0	0	0	0	0	0	0
4/7/2024 11:11	20402	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/7/2024 11:12	45303	WBER_T2	9	10	1	0.84	0.79	-0.05	-0.45	-0.39	0	0	0	0	0	0
4/7/2024 11:12	28704	HAML_T2	1	0	-1	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 11:12	60801	BUCK_T1	40	38	-2	0.31	0.29	-0.02	-0.17	-0.16	0	0	0	0	0	0
4/7/2024 11:12	28701	HAML_T2	3	4	1	0.7	0.78	0.08	0	0	0	0	0	0	0	0
4/7/2024 11:12	20402	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/7/2024 11:12	60803	BUCK_T1	18	18	0	0.37	0.42	0.05	0	0	0	0	0	0	0	0
4/7/2024 11:12	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.18	0.13	0	0	0	0	0	0
4/7/2024 11:13	60801	BUCK_T1	40	38	-2	0.31	0.29	-0.02	-0.17	-0.16	0	0	0	0	0	0
4/7/2024 11:13	60803	BUCK_T1	18	18	0	0.37	0.42	0.05	0	0	0	0	0	0	0	0
4/7/2024 11:14	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
4/7/2024 11:14	63801	HEMP_T1	6	5	-1	0.3	0.4	0.1	-0.36	-0.34	0	0	0	0	0	0
4/7/2024 11:14	63803	HEMP_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/7/2024 11:15	64301	LINC_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
4/7/2024 11:15	64305	LINC_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 11:15	64303	LINC_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/7/2024 11:18	60803	BUCK_T1	17	20	3	0.38	0.42	0.04	0	0	0	0	0	0	0	0
4/7/2024 11:18	60801	BUCK_T1	31	57	26	0.27	0.35	0.08	-0.17	-0.16	0	0	0	0	0	0
4/7/2024 11:19	45002	LIME_2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 11:19	63802	HEMP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/7/2024 11:19	63801	HEMP_T1	4	16	12	0.38	0.48	0.1	-0.36	-0.34	0	0	0	0	0	0
4/7/2024 11:19	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.24	1	1	0	600	600	0
4/7/2024 11:19	63803	HEMP_T1	1	5	4	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/7/2024 11:19	63804	HEMP_T1	1	2	1	5.9	3	-2.9	0	0	0	0	0	0	0	0
4/7/2024 11:19	45001	LIME_2	36	37	1	0.47	0.48	0.01	0	0	0	0	0	0	0	0
4/7/2024 11:19	45003	LIME_2	1	3	2	4.8	1.87	-2.93	0	0	1	1	0	1200	1200	0
4/7/2024 11:20	14401	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 11:20	14403	SSLA_T1	1	1	0	0.9	1	0.1	0.64	0.6	0	0	0	0	0	0
4/7/2024 11:20	14404	SSLA_T1	1	1	0	3.7	4	0.3	0	0	0	0	0	0	0	0
4/7/2024 11:23	14401	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 11:23	67401	WAKE_T2	94	172	78	0.22	0.33	0.11	0	0	0	0	0	0	0	0
4/7/2024 11:23	14404	SSLA_T1	1	1	0	3.7	4	0.3	0	0	0	0	0	0	0	0
4/7/2024 11:23	67402	WAKE_T2	1	10	9	0.1	0.28	0.18	0.18	0.17	0	0	0	0	0	0
4/7/2024 11:23	60803	BUCK_T1	17	20	3	0.38	0.42	0.04	0	0	0	0	0	0	0	0
4/7/2024 11:23	14403	SSLA_T1	1	1	0	0.9	1	0.1	0.6	0.6	0	0	0	0	0	0
4/7/2024 11:23	66703	STRA_T1	0	2	2	0	0.25	0.25	-0.35	-0.28	0	0	0	0	0	0
4/7/2024 11:23	60801	BUCK_T1	31	57	26	0.27	0.35	0.08	-0.16	-0.16	0	0	0	0	0	0
4/7/2024 11:24	56802	BENV_T2	1	3	2	2	0.87	-1.13	-1.41	-1.41	0	0	0	0	0	0
4/7/2024 11:25	56802	BENV_T2	1	3	2	2	0.87	-1.13	-2.82	-2.82	0	0	0	0	0	0
4/7/2024 11:25	59101	WALK_T2	1	0	-1	0.3	0	-0.3	0.94	1.04	0	0	0	0	0	0
4/7/2024 11:25	59102	WALK_T2	6	6	0	0.43	0.68	0.25	0	0	0	0	0	0	0	0
4/7/2024 11:25	44302	BEAV_T2	393	392	-1	0.59	0.6	0.01	0.28	0.28	0	0	0	0	0	0
4/7/2024 11:25	44301	BEAV_T2	15	17	2	0.8	0.41	-0.39	0	0	0	0	0	0	0	0
4/7/2024 11:26	46004	BERW_T2	1	1	0	0.2	0.1	-0.1	-0.86	-0.88	0	0	0	0	0	0
4/7/2024 11:27	60803	BUCK_T1	17	20	3	0.38	0.42	0.04	0	0	0	0	0	0	0	0
4/7/2024 11:27	60801	BUCK_T1	31	57	26	0.27	0.35	0.08	-0.16	-0.16	0	0	0	0	0	0
4/7/2024 11:28	60801	BUCK_T1	31	57	26	0.27	0.35	0.08	-0.16	-0.16	0	0	0	0	0	0
4/7/2024 11:28	60803	BUCK_T1	17	20	3	0.38	0.42	0.04	0	0	0	0	0	0	0	0
4/7/2024 11:29	63804	HEMP_T1	1	2	1	5.9	3	-2.9	0	0	0	0	0	0	0	0
4/7/2024 11:29	63201	MGTN_T2	0	0	0	0	0	0	0.18	0.15	1	1	0	600	600	0
4/7/2024 11:29	63803	HEMP_T1	1	5	4	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/7/2024 11:29	63802	HEMP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/7/2024 11:29	63801	HEMP_T1	4	16	12	0.38	0.48	0.1	-0.34	-0.26	0	0	0	0	0	0
4/7/2024 11:30	63401	HONY_T1	0	0	0	0	0	0	0.19	0.28	0	0	0	0	0	0
4/7/2024 11:30	63404	HONY_T1	52	109	57	0.19	0.29	0.1	0	0	0	0	0	0	0	0
4/7/2024 11:31	63201	MGTN_T2	0	1	1	0	0.4	0.4	0.35	0.3	2	2	0	1200	1200	0
4/7/2024 11:32	63201	MGTN_T2	0	1	1	0	0.4	0.4	0.18	0.15	1	1	0	600	600	0
4/7/2024 11:33	60803	BUCK_T1	18	22	4	0.41	0.39	-0.02	0	0	0	0	0	0	0	0
4/7/2024 11:33	60801	BUCK_T1	36	61	25	0.28	0.39	0.11	-0.16	-0.16	0	0	0	0	0	0
4/7/2024 11:34	41902	REED_T1	1	4	3	0.2	0.28	0.08	0.91	0.93	0	0	0	0	0	0
4/7/2024 11:35	17002	RIRO_T2	1	2	1	0.7	0.8	0.1	0.38	0.35	0	0	0	0	0	0
4/7/2024 11:35	63804	HEMP_T1	1	3	2	5.9	2	-3.9	0	0	0	0	0	0	0	0
4/7/2024 11:35	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 11:35	56504	ROCK_T2	5	5	0	0.88	0.4	-0.48	0	0	0	0	0	0	0	0
4/7/2024 11:35	63803	HEMP_T1	3	5	2	0.23	0.32	0.09	0	0	0	0	0	0	0	0
4/7/2024 11:35	41902	REED_T1	1	4	3	0.2	0.28	0.08	1.82	1.86	0	0	0	0	0	0
4/7/2024 11:35	63201	MGTN_T2	0	1	1	0	0.4	0.4	0.18	0.15	1	1	0	600	600	0
4/7/2024 11:35	63802	HEMP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/7/2024 11:35	56501	ROCK_T2	11	15	4	0.33	0.47	0.14	-0.02	-0.02	0	0	0	0	0	0
4/7/2024 11:35	63801	HEMP_T1	5	18	13	0.32	0.49	0.17	-0.34	-0.26	0	0	0	0	0	0
4/7/2024 11:36	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 11:36	56501	ROCK_T2	11	15	4	0.33	0.47	0.14	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 11:36	67902	WNHO_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/7/2024 11:36	67901	WNHO_T2	141	137	-4	0.54	0.53	-0.01	-0.57	-0.55	0	0	0	0	0	0
4/7/2024 11:36	56504	ROCK_T2	5	5	0	0.88	0.4	-0.48	0	0	0	0	0	0	0	0
4/7/2024 11:37	44301	BEAV_T2	14	17	3	0.42	0.49	0.07	0	0	0	0	0	0	0	0
4/7/2024 11:37	44302	BEAV_T2	350	440	90	0.6	0.6	0	0.28	0.28	0	0	0	0	0	0
4/7/2024 11:37	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 11:37	56504	ROCK_T2	5	5	0	0.88	0.4	-0.48	83.96	83.96	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/7/2024 11:37	56501	ROCK_T2	11	15	4	0.33	0.47	0.14	-0.05	-0.05	0	0	0	0	0	0
4/7/2024 11:38	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 11:38	60801	BUCK_T1	36	61	25	0.28	0.39	0.11	-0.16	-0.16	0	0	0	0	0	0
4/7/2024 11:38	56501	ROCK_T2	11	15	4	0.33	0.47	0.14	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 11:38	67605	WARW_T1	18	21	3	0.76	0.71	-0.05	-0.97	-0.97	0	0	0	0	0	0
4/7/2024 11:38	56504	ROCK_T2	5	5	0	0.88	0.4	-0.48	0	0	0	0	0	0	0	0
4/7/2024 11:38	44301	BEAV_T2	14	17	3	0.42	0.49	0.07	0	0	0	0	0	0	0	0
4/7/2024 11:38	44302	BEAV_T2	350	440	90	0.6	0.6	0	0.28	0.27	0	0	0	0	0	0
4/7/2024 11:38	67603	WARW_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/7/2024 11:38	60803	BUCK_T1	18	22	4	0.41	0.39	-0.02	0	0	0	0	0	0	0	0
4/7/2024 11:39	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 11:39	56504	ROCK_T2	5	5	0	0.88	0.4	-0.48	0	0	0	0	0	0	0	0
4/7/2024 11:39	56501	ROCK_T2	11	15	4	0.33	0.47	0.14	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 11:39	60803	BUCK_T1	18	22	4	0.41	0.39	-0.02	0	0	0	0	0	0	0	0
4/7/2024 11:39	60801	BUCK_T1	36	61	25	0.28	0.39	0.11	-0.33	-0.31	0	0	0	0	0	0
4/7/2024 11:40	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 11:40	56501	ROCK_T2	11	15	4	0.33	0.47	0.14	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 11:40	67603	WARW_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/7/2024 11:40	60803	BUCK_T1	18	22	4	0.41	0.39	-0.02	-0.55	-0.53	1	1	0	600	600	0
4/7/2024 11:40	56504	ROCK_T2	5	5	0	0.88	0.4	-0.48	0	0	0	0	0	0	0	0
4/7/2024 11:40	67605	WARW_T1	18	21	3	0.76	0.71	-0.05	-1.93	-1.93	0	0	0	0	0	0
4/7/2024 11:40	60801	BUCK_T1	36	61	25	0.28	0.39	0.11	0	0	0	0	0	0	0	0
4/7/2024 11:40	41601	CLEV_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/7/2024 11:41	44301	BEAV_T2	14	17	3	0.42	0.49	0.07	0	0	0	0	0	0	0	0
4/7/2024 11:41	67603	WARW_T1	0	1	1	0	0.7	0.7	-0.06	-0.06	0	0	0	0	0	0
4/7/2024 11:41	67605	WARW_T1	18	21	3	0.76	0.71	-0.05	-0.97	-0.97	0	0	0	0	0	0
4/7/2024 11:41	67605	WARW_T1	18	21	3	0.76	0.71	-0.05	-0.97	-0.97	0	0	0	0	0	0
4/7/2024 11:41	67605	WARW_T1	18	21	3	0.76	0.71	-0.05	-0.97	-0.97	0	0	0	0	0	0
4/7/2024 11:41	67605	WARW_T1	18	21	3	0.76	0.71	-0.05	-0.97	-0.97	0	0	0	0	0	0
4/7/2024 11:41	41601	CLEV_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/7/2024 11:41	44302	BEAV_T2	350	440	90	0.6	0.6	0	0.28	0.27	0	0	0	0	0	0
4/7/2024 11:42	67603	WARW_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/7/2024 11:42	46004	BERW_T2	1	0	-1	0.1	0	-0.1	-0.88	-0.86	0	0	0	0	0	0
4/7/2024 11:42	67605	WARW_T1	18	21	3	0.76	0.71	-0.05	-0.97	-0.97	0	0	0	0	0	0
4/7/2024 11:43	60801	BUCK_T1	36	61	25	0.28	0.39	0.11	-0.16	-0.16	0	0	0	0	0	0
4/7/2024 11:43	52004	LING_T2	1	3	2	0.6	0.63	0.03	0.12	0.15	0	0	0	0	0	0
4/7/2024 11:43	41601	CLEV_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/7/2024 11:43	60803	BUCK_T1	18	22	4	0.41	0.39	-0.02	-0.55	-0.53	1	1	0	600	600	0
4/7/2024 11:44	60801	BUCK_T1	36	61	25	0.28	0.39	0.11	-0.16	-0.16	0	0	0	0	0	0
4/7/2024 11:44	60803	BUCK_T1	18	22	4	0.41	0.39	-0.02	0	0	0	0	0	0	0	0
4/7/2024 11:45	45002	LIME_2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/7/2024 11:45	45001	LIME_2	35	29	-6	0.43	0.31	-0.12	0	0	0	0	0	0	0	0
4/7/2024 11:45	64404	LAND_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/7/2024 11:45	45003	LIME_2	3	3	0	1.87	1.87	0	0	0	2	2	0	2400	2400	0
4/7/2024 11:45	64402	LAND_T2	1	1	0	0.4	0.6	0.2	-0.62	-0.61	1	1	0	600	600	0
4/7/2024 11:46	45003	LIME_2	3	3	0	1.87	1.87	0	0	0	1	1	0	1200	1200	0
4/7/2024 11:46	45001	LIME_2	35	29	-6	0.43	0.31	-0.12	0	0	0	0	0	0	0	0
4/7/2024 11:46	67603	WARW_T1	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/7/2024 11:46	67605	WARW_T1	21	23	2	0.7	0.67	-0.03	-0.97	-0.97	0	0	0	0	0	0
4/7/2024 11:46	45002	LIME_2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/7/2024 11:48	42802	SELI_T1	0	0	0	0	0	0	-2.66	-2.62	0	0	0	0	0	0
4/7/2024 11:48	42801	SELI_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/7/2024 11:49	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/7/2024 11:49	56504	ROCK_T2	5	3	-2	0.36	0.43	0.07	0	0	0	0	0	0	0	0
4/7/2024 11:49	56501	ROCK_T2	13	15	2	0.32	0.49	0.17	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 11:50	56501	ROCK_T2	13	15	2	0.32	0.49	0.17	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 11:50	56504	ROCK_T2	5	3	-2	0.36	0.43	0.07	0	0	0	0	0	0	0	0
4/7/2024 11:50	41902	REED_T1	0	5	5	0	0.44	0.44	1.86	1.74	0	0	0	0	0	0
4/7/2024 11:50	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/7/2024 11:51	41902	REED_T1	0	5	5	0	0.44	0.44	0.93	0.87	0	0	0	0	0	0
4/7/2024 11:51	56501	ROCK_T2	13	15	2	0.32	0.49	0.17	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 11:51	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/7/2024 11:51	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 11:51	56504	ROCK_T2	5	3	-2	0.36	0.43	0.07	0	0	0	0	0	0	0	0
4/7/2024 11:52	56504	ROCK_T2	5	3	-2	0.36	0.43	0.07	0	0	0	0	0	0	0	0
4/7/2024 11:52	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/7/2024 11:52	64101	REFR_T1	1	3	2	0.1	0.3	0.2	-0.91	-0.9	0	0	0	0	0	0
4/7/2024 11:52	56501	ROCK_T2	13	15	2	0.32	0.49	0.17	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 11:53	64101	REFR_T1	1	3	2	0.1	0.3	0.2	-0.9	-0.9	0	0	0	0	0	0
4/7/2024 11:53	67605	WARW_T1	21	23	2	0.7	0.67	-0.03	-0.97	-0.98	0	0	0	0	0	0
4/7/2024 11:53	56501	ROCK_T2	13	15	2	0.32	0.49	0.17	-0.05	-0.05	0	0	0	0	0	0
4/7/2024 11:53	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/7/2024 11:53	56504	ROCK_T2	5	3	-2	0.36	0.43	0.07	83.96	83.96	0	0	0	0	0	0
4/7/2024 11:53	67603	WARW_T1	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/7/2024 11:54	56501	ROCK_T2	13	15	2	0.32	0.49	0.17	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 11:54	56504	ROCK_T2	5	3	-2	0.36	0.43	0.07	0	0	0	0	0	0	0	0
4/7/2024 11:54	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/7/2024 11:55	11803	FRAN_T2	4	44	40	0.53	0.46	-0.07	-0.28	-0.35	0	0	0	0	0	0
4/7/2024 11:55	11801	FRAN_T2	3	3	0	0.43	0.87	0.44	0	0	0	0	0	0	0	0
4/7/2024 11:56	56504	ROCK_T2	5	3	-2	0.36	0.43	0.07	0	0	0	0	0	0	0	0
4/7/2024 11:56	67605	WARW_T1	21	23	2	0.7	0.67	-0.03	-1.93	-1.95	0	0	0	0	0	0
4/7/2024 11:56	67605	WARW_T1	21	23	2	0.7	0.67	-0.03	-1.93	-0.98	0	0	0	0	0	0
4/7/2024 11:56	67605	WARW_T1	21	23	2	0.7	0.67	-0.03	-0.97	-1.95	0	0	0	0	0	0
4/7/2024 11:56	67605	WARW_T1	21	23	2	0.7	0.67	-0.03	-0.97	-0.98	0	0	0	0	0	0
4/7/2024 11:56	56501	ROCK_T2	13	15	2	0.32	0.49	0.17	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 11:56	67603	WARW_T1	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/7/2024 11:56	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/7/2024 11:56	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 11:56	46203	DANV_T2	131	156	25	0.38	0.46	0.08	-2.39	-2.45	0	0	0	0	0	0
4/7/2024 11:57	46203	DANV_T2	131	156	25	0.38	0.46	0.08	-4.78	-4.89	0	0	0	0	0	0
4/7/2024 11:57	67605	WARW_T1	21	23	2	0.7	0.67	-0.03	-1.93	-1.95	0	0	0	0	0	0
4/7/2024 11:57	67603	WARW_T1	1	2	1	0.1	0.5	0.4	-0.06	-0.06	0	0	0	0	0	0
4/7/2024 11:57	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 11:58	40101	HUNT_T2	0	3	3	0	0.37	0.37	-0.7	-0.71	0	0	0	0	0	0
4/7/2024 11:59	40101	HUNT_T2	0	3	3	0	0.37	0.37	-0.7	-0.71	0	0	0	0	0	0
4/7/2024 12:01	67603	WARW_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
4/7/2024 12:01	67605	WARW_T1	18	25	7	0.53	0.7	0.17	-0.97	-0.98	0	0	0	0	0	0
4/7/2024 12:01	40101	HUNT_T2	1	3	2	0.1	0.37	0.27	-0.7	-0.71	0	0	0	0	0	0
4/7/2024 12:07	44301	BEAV_T2	16	25	9	0.52	0.47	-0.05	0	0	0	0	0	0	0	0
4/7/2024 12:07	44302	BEAV_T2	431	464	33	0.59	0.68	0.09	0.27	0.28	0	0	0	0	0	0
4/7/2024 12:07	67603	WARW_T1	1	2	1	0.7	0.45	-0.25	-0.06	-0.06	0	0	0	0	0	0
4/7/2024 12:07	67605	WARW_T1	18	25	7	0.53	0.7	0.17	0	0	0	0	0	0	0	0
4/7/2024 12:08	67603	WARW_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
4/7/2024 12:08	44301	BEAV_T2	16	25	9	0.52	0.47	-0.05	0	0	0	0	0	0	0	0
4/7/2024 12:08	44302	BEAV_T2	431	464	33	0.59	0.68	0.09	0.28	0.26	0	0	0	0	0	0
4/7/2024 12:08	67605	WARW_T1	18	25	7	0.53	0.7	0.17	-0.98	-0.96	0	0	0	0	0	0
4/7/2024 12:09	16302	ALPA_T2	0	2	2	0	0.2	0.2	0.46	0.43	0	0	0	0	0	0
4/7/2024 12:10	44302	BEAV_T2	431	464	33	0.59	0.68	0.09	0.28	0.26	0	0	0	0	0	0
4/7/2024 12:10	44301	BEAV_T2	16	25	9	0.52	0.47	-0.05	0	0	0	0	0	0	0	0
4/7/2024 12:10	67605	WARW_T1	18	25	7	0.53	0.7	0.17	-0.98	-0.96	0	0	0	0	0	0
4/7/2024 12:10	67603	WARW_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
4/7/2024 12:11	53901	HALI_T2	4	15	11	0.58	0.33	-0.25	0	0	0	0	0	0	0	0
4/7/2024 12:11	67603	WARW_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
4/7/2024 12:11	53902	HALI_T2	5	4	-1	1.76	2.35	0.59	0	0	0	0	0	0	0	0
4/7/2024 12:11	53903	HALI_T2	12	17	5	0.81	0.81	0	-0.16	-0.15	0	0	0	0	0	0
4/7/2024 12:11	67605	WARW_T1	18	25	7	0.53	0.7	0.17	-0.98	-0.96	0	0	0	0	0	0
4/7/2024 12:11	67605	WARW_T1	18	25	7	0.53	0.7	0.17	-0.98	-0.96	0	0	0	0	0	0
4/7/2024 12:11	67605	WARW_T1	18	25	7	0.53	0.7	0.17	-0.98	-0.96	0	0	0	0	0	0
4/7/2024 12:11	67605	WARW_T1	18	25	7	0.53	0.7	0.17	-0.98	-0.96	0	0	0	0	0	0
4/7/2024 12:12	67605	WARW_T1	18	25	7	0.53	0.7	0.17	-1.95	-1.91	0	0	0	0	0	0
4/7/2024 12:12	63803	HEMP_T1	3	6	3	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
4/7/2024 12:12	63802	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 12:12	67603	WARW_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
4/7/2024 12:12	63801	HEMP_T1	10	27	17	0.42	0.43	0.01	-0.39	-0.39	0	0	0	0	0	0
4/7/2024 12:12	44302	BEAV_T2	431	464	33	0.59	0.68	0.09	0.28	0.26	0	0	0	0	0	0
4/7/2024 12:12	63804	HEMP_T1	2	2	0	2.95	3	0.05	0	0	0	0	0	0	0	0
4/7/2024 12:12	44301	BEAV_T2	16	25	9	0.52	0.47	-0.05	0	0	0	0	0	0	0	0
4/7/2024 12:15	63804	HEMP_T1	2	3	1	3	2.07	-0.93	0	0	0	0	0	0	0	0
4/7/2024 12:15	63801	HEMP_T1	21	25	4	0.46	0.4	-0.06	-0.39	-0.39	0	0	0	0	0	0
4/7/2024 12:15	63802	HEMP_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/7/2024 12:15	63803	HEMP_T1	5	7	2	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
4/7/2024 12:16	45002	LIME_2	1	3	2	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
4/7/2024 12:16	45001	LIME_2	17	35	18	0.18	0.47	0.29	0	0	0	0	0	0	0	0
4/7/2024 12:16	67605	WARW_T1	23	27	4	0.67	0.71	0.04	-0.98	-0.96	0	0	0	0	0	0
4/7/2024 12:16	45003	LIME_2	3	3	0	1.77	1.9	0.13	0	0	2	2	0	2400	2400	0
4/7/2024 12:16	67603	WARW_T1	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
4/7/2024 12:17	40602	PIGR_T1	1	3	2	0.5	0.6	0.1	-0.81	-0.73	1	1	0	600	600	0
4/7/2024 12:17	40603	PIGR_T1	2	2	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/7/2024 12:17	45002	LIME_2	1	3	2	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
4/7/2024 12:17	45003	LIME_2	3	3	0	1.77	1.9	0.13	0	0	1	1	0	1200	1200	0
4/7/2024 12:17	40601	PIGR_T1	35	25	-10	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
4/7/2024 12:17	63801	HEMP_T1	21	25	4	0.46	0.4	-0.06	-0.39	-0.39	0	0	0	0	0	0
4/7/2024 12:17	63803	HEMP_T1	5	7	2	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
4/7/2024 12:17	63802	HEMP_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/7/2024 12:17	45001	LIME_2	17	35	18	0.18	0.47	0.29	0	0	0	0	0	0	0	0
4/7/2024 12:17	63804	HEMP_T1	2	3	1	3	2.07	-0.93	0	0	0	0	0	0	0	0
4/7/2024 12:19	65803	RTWN_T2	1	3	2	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/7/2024 12:19	40601	PIGR_T1	35	25	-10	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
4/7/2024 12:19	40602	PIGR_T1	1	3	2	0.5	0.6	0.1	-1.62	-1.46	2	2	0	1200	1200	0
4/7/2024 12:19	40603	PIGR_T1	2	2	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/7/2024 12:19	65802	RTWN_T2	3	4	1	0.87	0.75	-0.12	-0.51	-0.52	0	0	0	0	0	0
4/7/2024 12:20	65801	RTWN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/7/2024 12:20	65804	RTWN_T1	1	2	1	0.7	1.25	0.55	-0.21	-0.24	1	1	0	600	600	0
4/7/2024 12:23	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 12:23	46206	DANV_T2	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
4/7/2024 12:23	46203	DANV_T2	154	178	24	0.46	0.75	0.29	-2.4	-2.43	0	0	0	0	0	0
4/7/2024 12:24	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 12:24	46203	DANV_T2	154	178	24	0.46	0.75	0.29	-2.4	-2.43	0	0	0	0	0	0
4/7/2024 12:24	46206	DANV_T2	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
4/7/2024 12:24	46004	BERW_T2	2	1	-1	0.2	0.1	-0.1	-0.87	-0.84	0	0	0	0	0	0
4/7/2024 12:27	63802	HEMP_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/7/2024 12:27	63803	HEMP_T1	5	7	2	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
4/7/2024 12:27	63804	HEMP_T1	2	3	1	3	2.07	-0.93	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/7/2024 12:27	63801	HEMP_T1	21	25	4	0.46	0.4	-0.06	-0.39	-0.32	0	0	0	0	0	0
4/7/2024 12:28	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 12:28	46206	DANV_T2	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
4/7/2024 12:28	63804	HEMP_T1	2	3	1	3	2.07	-0.93	-0.54	-0.51	0	0	0	0	0	0
4/7/2024 12:28	63802	HEMP_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/7/2024 12:28	46203	DANV_T2	154	178	24	0.46	0.75	0.29	-2.4	-2.43	0	0	0	0	0	0
4/7/2024 12:28	63803	HEMP_T1	5	7	2	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
4/7/2024 12:28	63801	HEMP_T1	21	25	4	0.46	0.4	-0.06	0	0	0	0	0	0	0	0
4/7/2024 12:29	40101	HUNT_T2	3	1	-2	0.37	0.2	-0.17	-0.68	-0.71	0	0	0	0	0	0
4/7/2024 12:30	67603	WARW_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
4/7/2024 12:30	67605	WARW_T1	25	31	6	0.69	0.73	0.04	-0.96	-0.99	0	0	0	0	0	0
4/7/2024 12:31	40101	HUNT_T2	1	1	0	0.1	0.2	0.1	-0.68	-0.71	0	0	0	0	0	0
4/7/2024 12:32	63803	HEMP_T1	6	7	1	0.35	0.41	0.06	0	0	0	0	0	0	0	0
4/7/2024 12:32	40101	HUNT_T2	1	1	0	0.1	0.2	0.1	-0.68	-0.71	0	0	0	0	0	0
4/7/2024 12:32	54206	PENN_T2	0	1	1	0	0.1	0.1	-0.03	0	0	0	0	0	0	0
4/7/2024 12:32	63801	HEMP_T1	19	30	11	0.37	0.41	0.04	-0.39	-0.32	0	0	0	0	0	0
4/7/2024 12:32	63802	HEMP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/7/2024 12:32	63804	HEMP_T1	2	4	2	3	1.58	-1.42	0	0	0	0	0	0	0	0
4/7/2024 12:34	51004	NHAR_T1	15	14	-1	0.83	0.86	0.03	-0.46	-0.47	0	0	0	0	0	0
4/7/2024 12:34	66302	MCGO_T2	5	4	-1	0.48	0.7	0.22	-2.69	-1.42	2	0	-2	1200	0	-1200
4/7/2024 12:34	51002	NHAR_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
4/7/2024 12:34	66303	MCGO_T2	3	1	-2	0.27	0.3	0.03	0	0	0	0	0	0	0	0
4/7/2024 12:36	67603	WARW_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
4/7/2024 12:36	67605	WARW_T1	25	31	6	0.69	0.73	0.04	-0.96	-0.99	0	0	0	0	0	0
4/7/2024 12:40	58003	WCAR_T1	1	1	0	0.8	0.8	0	-0.4	-0.36	2	2	0	1200	1200	0
4/7/2024 12:40	58001	WCAR_T1	4	4	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
4/7/2024 12:41	67603	WARW_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
4/7/2024 12:41	67605	WARW_T1	25	31	6	0.69	0.73	0.04	-0.99	-0.99	0	0	0	0	0	0
4/7/2024 12:43	46003	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 12:43	46004	BERW_T2	1	2	1	0.1	0.15	0.05	-0.84	-0.86	0	0	0	0	0	0
4/7/2024 12:44	46004	BERW_T2	1	2	1	0.1	0.15	0.05	-0.84	-0.86	0	0	0	0	0	0
4/7/2024 12:44	46003	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 12:46	67605	WARW_T1	27	32	5	0.69	0.73	0.04	-0.99	-0.99	0	0	0	0	0	0
4/7/2024 12:46	67603	WARW_T1	1	2	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/7/2024 12:49	64101	REFR_T1	8	8	0	0.46	0.5	0.04	-0.92	-0.94	0	0	0	0	0	0
4/7/2024 12:51	64101	REFR_T1	8	8	0	0.46	0.5	0.04	-0.92	-0.94	0	0	0	0	0	0
4/7/2024 12:52	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 12:54	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 12:56	67603	WARW_T1	1	2	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/7/2024 12:56	67605	WARW_T1	27	32	5	0.69	0.73	0.04	-0.99	-0.99	0	0	0	0	0	0
4/7/2024 13:01	67603	WARW_T1	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
4/7/2024 13:01	67605	WARW_T1	29	34	5	0.77	0.71	-0.06	-0.99	-0.99	0	0	0	0	0	0
4/7/2024 13:03	15604	NSTR_T1	0	1	1	0	0.2	0.2	0.2	0.21	0	0	0	0	0	0
4/7/2024 13:04	41902	REED_T1	4	5	1	0.45	0.6	0.15	2.73	2.64	0	0	0	0	0	0
4/7/2024 13:05	55002	NEWP_T1	9	8	-1	0.92	0.76	-0.16	0	0	0	0	0	0	0	0
4/7/2024 13:05	55001	NEWP_T1	4	2	-2	0.43	0.55	0.12	-0.29	-0.28	0	0	0	0	0	0
4/7/2024 13:07	64101	REFR_T1	8	5	-3	0.5	0.64	0.14	-0.94	-0.97	0	0	0	0	0	0
4/7/2024 13:10	41602	CLEV_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/7/2024 13:10	41601	CLEV_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/7/2024 13:11	67603	WARW_T1	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
4/7/2024 13:11	41601	CLEV_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/7/2024 13:11	67605	WARW_T1	29	34	5	0.77	0.71	-0.06	-0.99	-0.98	0	0	0	0	0	0
4/7/2024 13:11	41602	CLEV_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/7/2024 13:12	41602	CLEV_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/7/2024 13:12	41601	CLEV_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/7/2024 13:12	60803	BUCK_T1	21	25	4	0.46	0.45	-0.01	0	0	0	0	0	0	0	0
4/7/2024 13:12	60801	BUCK_T1	54	67	13	0.38	0.4	0.02	-0.18	-0.19	0	0	0	0	0	0
4/7/2024 13:16	67605	WARW_T1	31	34	3	0.73	0.71	-0.02	-0.99	-0.98	0	0	0	0	0	0
4/7/2024 13:16	67603	WARW_T1	2	1	-1	0.5	1.1	0.6	0	0	0	0	0	0	0	0
4/7/2024 13:26	67603	WARW_T1	2	1	-1	0.5	1.1	0.6	0	0	0	0	0	0	0	0
4/7/2024 13:26	67605	WARW_T1	31	34	3	0.73	0.71	-0.02	-0.98	-0.99	0	0	0	0	0	0
4/7/2024 13:31	67603	WARW_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
4/7/2024 13:31	67605	WARW_T1	33	53	20	0.71	0.67	-0.04	-0.98	-0.99	0	0	0	0	0	0
4/7/2024 13:33	43202	MVIL_T2	1	1	0	1	1	0	-0.73	-0.73	0	0	0	0	0	0
4/7/2024 13:33	43201	MVIL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/7/2024 13:38	41602	CLEV_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/7/2024 13:38	44301	BEAV_T2	21	26	5	0.5	0.51	0.01	0	0	0	0	0	0	0	0
4/7/2024 13:38	41601	CLEV_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/7/2024 13:38	44302	BEAV_T2	445	511	66	0.74	0.84	0.1	0.28	0.28	0	0	0	0	0	0
4/7/2024 13:39	44301	BEAV_T2	21	26	5	0.5	0.51	0.01	0	0	0	0	0	0	0	0
4/7/2024 13:39	65802	RTWN_T2	5	5	0	0.74	0.88	0.14	-0.54	-0.54	0	0	0	0	0	0
4/7/2024 13:39	65803	RTWN_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/7/2024 13:39	44302	BEAV_T2	445	511	66	0.74	0.84	0.1	0.28	0.28	0	0	0	0	0	0
4/7/2024 13:40	60801	BUCK_T1	64	76	12	0.39	0.45	0.06	-0.59	-0.57	0	0	0	0	0	0
4/7/2024 13:40	60803	BUCK_T1	24	32	8	0.46	0.53	0.07	0	0	0	0	0	0	0	0
4/7/2024 13:41	60801	BUCK_T1	64	76	12	0.39	0.45	0.06	0	0	0	0	0	0	0	0
4/7/2024 13:41	67605	WARW_T1	33	53	20	0.71	0.67	-0.04	-0.99	-1.19	0	0	0	0	0	0
4/7/2024 13:41	41601	CLEV_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/7/2024 13:41	41602	CLEV_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/7/2024 13:41	67603	WARW_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
4/7/2024 13:41	60803	BUCK_T1	24	32	8	0.46	0.53	0.07	-0.53	-0.54	1	1	0	600	600	0
4/7/2024 13:42	41602	CLEV_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/7/2024 13:42	11803	FRAN_T2	47	37	-10	0.5	0.5	0	0	0	0	0	0	0	0	0
4/7/2024 13:42	52402	GRPA_T2	5	7	2	0.94	0.96	0.02	0	0	0	0	0	0	0	0
4/7/2024 13:42	52401	GRPA_T2	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
4/7/2024 13:42	11801	FRAN_T2	4	4	0	0.8	0.48	-0.32	-0.02	-0.01	0	0	0	0	0	0
4/7/2024 13:42	41601	CLEV_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/7/2024 13:42	52403	GRPA_T2	10	10	0	0.8	0.51	-0.29	-0.03	-0.01	0	0	0	0	0	0
4/7/2024 13:43	60801	BUCK_T1	64	76	12	0.39	0.45	0.06	-0.2	-0.19	0	0	0	0	0	0
4/7/2024 13:43	60803	BUCK_T1	24	32	8	0.46	0.53	0.07	0	0	0	0	0	0	0	0
4/7/2024 13:44	60803	BUCK_T1	24	32	8	0.46	0.53	0.07	-0.53	-0.54	1	1	0	600	600	0
4/7/2024 13:44	60801	BUCK_T1	64	76	12	0.39	0.45	0.06	0	0	0	0	0	0	0	0
4/7/2024 13:45	60803	BUCK_T1	29	32	3	0.52	0.54	0.02	0	0	0	0	0	0	0	0
4/7/2024 13:45	60801	BUCK_T1	65	73	8	0.43	0.46	0.03	-0.2	-0.19	0	0	0	0	0	0
4/7/2024 13:47	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 13:47	67605	WARW_T1	33	60	27	0.69	0.67	-0.02	-0.99	-1.19	0	0	0	0	0	0
4/7/2024 13:47	67603	WARW_T1	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/7/2024 13:49	42801	SELI_T1	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
4/7/2024 13:49	42802	SELI_T1	0	0	0	0	0	0	-2.62	-2.62	0	0	0	0	0	0
4/7/2024 13:50	56501	ROCK_T2	16	23	7	0.9	0.67	-0.23	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 13:50	56503	ROCK_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/7/2024 13:50	15604	NSTR_T1	1	0	-1	0.2	0	-0.2	0.21	0.2	0	0	0	0	0	0
4/7/2024 13:50	56504	ROCK_T2	4	7	3	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
4/7/2024 13:51	56503	ROCK_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/7/2024 13:51	56501	ROCK_T2	16	23	7	0.9	0.67	-0.23	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 13:51	56504	ROCK_T2	4	7	3	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
4/7/2024 13:52	13902	SEID_T1	1	1	0	0.1	1.1	1	0	0	0	0	0	0	0	0
4/7/2024 13:52	56503	ROCK_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/7/2024 13:52	56504	ROCK_T2	4	7	3	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
4/7/2024 13:52	13905	SEID_T1	2	4	2	0.25	0.45	0.2	0	0	0	0	0	0	0	0
4/7/2024 13:52	13901	SEID_T1	0	0	0	0	0	0	0.47	0.43	0	0	0	0	0	0
4/7/2024 13:52	56501	ROCK_T2	16	23	7	0.9	0.67	-0.23	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 13:53	56503	ROCK_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/7/2024 13:53	56504	ROCK_T2	4	7	3	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
4/7/2024 13:53	56501	ROCK_T2	16	23	7	0.9	0.67	-0.23	-0.04	-0.04	0	0	0	0	0	0
4/7/2024 13:54	56501	ROCK_T2	16	23	7	0.9	0.67	-0.23	-0.02	-0.02	0	0	0	0	0	0
4/7/2024 13:54	56504	ROCK_T2	4	7	3	0.53	0.46	-0.07	83.96	83.96	0	0	0	0	0	0
4/7/2024 13:54	56503	ROCK_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/7/2024 13:55	60801	BUCK_T1	65	73	8	0.43	0.46	0.03	-0.19	-0.17	0	0	0	0	0	0
4/7/2024 13:55	60803	BUCK_T1	29	32	3	0.52	0.54	0.02	0	0	0	0	0	0	0	0
4/7/2024 13:55	60701	BREC_T1	2	1	-1	0.4	0.2	-0.2	0.01	0.01	0	0	0	0	0	0
4/7/2024 13:56	60701	BREC_T1	2	1	-1	0.4	0.2	-0.2	0.01	0.01	0	0	0	0	0	0
4/7/2024 13:56	67605	WARW_T1	33	60	27	0.69	0.67	-0.02	-1.19	-1.19	0	0	0	0	0	0
4/7/2024 13:56	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 13:56	67603	WARW_T1	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/7/2024 13:57	56501	ROCK_T2	16	23	7	0.9	0.67	-0.23	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 13:57	56503	ROCK_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/7/2024 13:57	56504	ROCK_T2	4	7	3	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
4/7/2024 14:00	60801	BUCK_T1	71	70	-1	0.45	0.42	-0.03	-0.19	-0.17	0	0	0	0	0	0
4/7/2024 14:00	60803	BUCK_T1	32	31	-1	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
4/7/2024 14:01	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 14:01	67603	WARW_T1	1	3	2	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
4/7/2024 14:01	67605	WARW_T1	53	58	5	0.67	0.68	0.01	-1.19	-1.19	0	0	0	0	0	0
4/7/2024 14:06	67605	WARW_T1	53	58	5	0.67	0.68	0.01	-1.19	-1.19	0	0	0	0	0	0
4/7/2024 14:06	66703	STRA_T1	67	227	160	0.22	0.39	0.17	-0.36	-0.38	0	0	0	0	0	0
4/7/2024 14:06	67603	WARW_T1	1	3	2	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
4/7/2024 14:06	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 14:06	66701	STRA_T1	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/7/2024 14:07	56501	ROCK_T2	13	24	11	0.94	0.62	-0.32	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 14:07	56504	ROCK_T2	4	11	7	0.28	0.58	0.3	0	0	0	0	0	0	0	0
4/7/2024 14:07	56503	ROCK_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/7/2024 14:08	44301	BEAV_T2	26	35	9	0.5	0.41	-0.09	0	0	0	0	0	0	0	0
4/7/2024 14:08	44302	BEAV_T2	500	511	11	0.83	0.85	0.02	0.29	0.3	0	0	0	0	0	0
4/7/2024 14:08	46203	DANV_T2	177	184	7	0.92	0.99	0.07	-2.48	-2.5	0	0	0	0	0	0
4/7/2024 14:09	41602	CLEV_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/7/2024 14:09	41601	CLEV_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/7/2024 14:10	60803	BUCK_T1	32	31	-1	0.53	0.48	-0.05	-0.54	-0.53	1	1	0	600	600	0
4/7/2024 14:10	41602	CLEV_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/7/2024 14:10	56504	ROCK_T2	4	11	7	0.28	0.58	0.3	83.96	83.96	0	0	0	0	0	0
4/7/2024 14:10	41601	CLEV_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/7/2024 14:10	44301	BEAV_T2	26	35	9	0.5	0.41	-0.09	0	0	0	0	0	0	0	0
4/7/2024 14:10	56503	ROCK_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/7/2024 14:10	44302	BEAV_T2	500	511	11	0.83	0.85	0.02	0.29	0.3	0	0	0	0	0	0
4/7/2024 14:10	56501	ROCK_T2	13	24	11	0.94	0.62	-0.32	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 14:10	60801	BUCK_T1	71	70	-1	0.45	0.42	-0.03	0	0	0	0	0	0	0	0
4/7/2024 14:10	60701	BREC_T1	0	2	2	0	0.25	0.25	0.01	0.04	0	0	0	0	0	0
4/7/2024 14:11	56501	ROCK_T2	13	24	11	0.94	0.62	-0.32	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 14:11	56504	ROCK_T2	4	11	7	0.28	0.58	0.3	0	0	0	0	0	0	0	0
4/7/2024 14:11	60803	BUCK_T1	32	31	-1	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
4/7/2024 14:11	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 14:11	60701	BREC_T1	0	2	2	0	0.25	0.25	0.01	0.04	0	0	0	0	0	0
4/7/2024 14:11	67603	WARW_T1	1	3	2	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
4/7/2024 14:11	67605	WARW_T1	53	58	5	0.67	0.68	0.01	-1.19	-1.17	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/7/2024 14:11	56503	ROCK_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/7/2024 14:11	60801	BUCK_T1	71	70	-1	0.45	0.42	-0.03	-0.17	-0.17	0	0	0	0	0	0
4/7/2024 14:12	60701	BREC_T1	0	2	2	0	0.25	0.25	0.01	0.04	0	0	0	0	0	0
4/7/2024 14:12	45501	DERR_T2	8	9	1	0.45	0.48	0.03	-1.62	-1.69	4	4	0	3600	3600	0
4/7/2024 14:12	60801	BUCK_T1	71	70	-1	0.45	0.42	-0.03	-0.17	-0.17	0	0	0	0	0	0
4/7/2024 14:12	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	1	0	0	0	0
4/7/2024 14:12	60803	BUCK_T1	32	31	-1	0.53	0.48	-0.05	-0.54	-0.53	1	1	0	600	600	0
4/7/2024 14:13	56501	ROCK_T2	13	24	11	0.94	0.62	-0.32	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 14:13	11801	FRAN_T2	3	5	2	0.57	0.74	0.17	-0.03	-0.06	0	0	0	0	0	0
4/7/2024 14:13	11803	FRAN_T2	26	45	19	0.4	0.48	0.08	0	0	0	0	0	0	0	0
4/7/2024 14:13	52004	LING_T2	3	4	1	1.03	0.85	-0.18	0.11	0.24	0	0	0	0	0	0
4/7/2024 14:13	41601	CLEV_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/7/2024 14:13	56504	ROCK_T2	4	11	7	0.28	0.58	0.3	0	0	0	0	0	0	0	0
4/7/2024 14:13	41602	CLEV_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/7/2024 14:13	56503	ROCK_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/7/2024 14:14	64305	LINC_T1	4	4	0	0.28	0.38	0.1	0	0	0	0	0	0	0	0
4/7/2024 14:14	40101	HUNT_T2	3	0	-3	0.47	0	-0.47	-0.73	-0.73	0	0	0	0	0	0
4/7/2024 14:14	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/7/2024 14:14	64303	LINC_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/7/2024 14:14	46203	DANV_T2	177	184	7	0.92	0.99	0.07	-2.48	-2.5	0	0	0	0	0	0
4/7/2024 14:14	45501	DERR_T2	8	9	1	0.45	0.48	0.03	-0.81	-0.84	2	2	0	1800	1800	0
4/7/2024 14:14	64301	LINC_T1	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
4/7/2024 14:15	46506	LOHA_T1	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
4/7/2024 14:15	46504	LOHA_T1	3	18	15	1.2	0.34	-0.86	0	0	0	0	0	0	0	0
4/7/2024 14:15	52004	LING_T2	4	4	0	0.85	0.78	-0.07	0.11	0.24	0	0	0	0	0	0
4/7/2024 14:16	60801	BUCK_T1	64	75	11	0.41	0.48	0.07	-0.17	-0.17	0	0	0	0	0	0
4/7/2024 14:16	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
4/7/2024 14:16	60803	BUCK_T1	30	33	3	0.48	0.49	0.01	0	0	0	0	0	0	0	0
4/7/2024 14:17	45003	LIME_2	5	3	-2	1.32	2.03	0.71	0	0	1	1	0	1200	1200	0
4/7/2024 14:17	43202	MVIL_T2	4	4	0	0.4	0.4	0	-0.72	-0.74	0	0	0	0	0	0
4/7/2024 14:17	43201	MVIL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/7/2024 14:17	45002	LIME_2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/7/2024 14:17	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
4/7/2024 14:17	45001	LIME_2	33	42	9	0.42	0.56	0.14	0	0	0	0	0	0	0	0
4/7/2024 14:18	45003	LIME_2	5	3	-2	1.32	2.03	0.71	0	0	1	1	0	1200	1200	0
4/7/2024 14:18	64305	LINC_T1	3	4	1	0.37	0.33	-0.04	-0.71	-0.73	0	0	0	0	0	0
4/7/2024 14:18	64303	LINC_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 14:18	46506	LOHA_T1	0	0	0	0	0	0	-1.12	-1.09	0	0	0	0	0	0
4/7/2024 14:18	42801	SELI_T1	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
4/7/2024 14:18	45001	LIME_2	33	42	9	0.42	0.56	0.14	0	0	0	0	0	0	0	0
4/7/2024 14:18	46504	LOHA_T1	3	18	15	1.2	0.34	-0.86	0	0	0	0	0	0	0	0
4/7/2024 14:18	45002	LIME_2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/7/2024 14:18	42802	SELI_T1	0	0	0	0	0	0	-1.31	-1.27	0	0	0	0	0	0
4/7/2024 14:20	40901	JESH_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/7/2024 14:20	56504	ROCK_T2	7	11	4	0.44	0.69	0.25	83.96	83.96	0	0	0	0	0	0
4/7/2024 14:20	42802	SELI_T1	0	0	0	0	0	0	-2.62	-2.54	0	0	0	0	0	0
4/7/2024 14:20	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/7/2024 14:20	42801	SELI_T1	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
4/7/2024 14:20	40902	JESH_T1	2	3	1	0.55	0.47	-0.08	-1.62	-1.62	1	1	0	600	600	0
4/7/2024 14:20	43201	MVIL_T2	1	1	0	0.2	0.3	0.1	-0.4	-0.42	0	0	0	0	0	0
4/7/2024 14:20	56501	ROCK_T2	21	20	-1	0.57	0.7	0.13	0	0	0	0	0	0	0	0
4/7/2024 14:20	43202	MVIL_T2	4	4	0	0.4	0.4	0	-0.72	-0.74	0	0	0	0	0	0
4/7/2024 14:21	14802	TREI_T2	5	4	-1	0.38	0.43	0.05	0.29	0.28	0	0	0	0	0	0
4/7/2024 14:21	67605	WARW_T1	54	61	7	0.71	0.72	0.01	-1.19	-1.17	0	0	0	0	0	0
4/7/2024 14:21	67502	WEWI_T2	63	49	-14	0.26	0.29	0.03	-1.55	-1.51	1	1	0	900	900	0
4/7/2024 14:21	67603	WARW_T1	2	3	1	0.45	0.67	0.22	0	0	0	0	0	0	0	0
4/7/2024 14:21	67201	TEHI_T1	3	3	0	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
4/7/2024 14:21	67201	TEHI_T1	122	122	0	1.64	1.87	0.23	-0.12	-0.17	0	0	0	0	0	0
4/7/2024 14:21	14801	TREI_T2	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/7/2024 14:21	67604	WARW_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/7/2024 14:22	66701	STRA_T1	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/7/2024 14:22	56501	ROCK_T2	21	20	-1	0.57	0.7	0.13	-0.02	-0.02	0	0	0	0	0	0
4/7/2024 14:22	42601	TUSC_T1	1	1	0	0.2	0.1	-0.1	-0.63	-0.55	2	2	0	1800	1800	0
4/7/2024 14:22	66703	STRA_T1	212	213	1	0.4	0.36	-0.04	-0.38	-0.32	0	0	0	0	0	0
4/7/2024 14:22	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/7/2024 14:22	44601	SALE_T2	1	0	-1	0.1	0	-0.1	-0.24	-0.23	0	0	0	0	0	0
4/7/2024 14:22	42801	SELI_T1	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
4/7/2024 14:22	56504	ROCK_T2	7	11	4	0.44	0.69	0.25	0	0	0	0	0	0	0	0
4/7/2024 14:22	42802	SELI_T1	0	0	0	0	0	0	-2.62	-2.54	0	0	0	0	0	0
4/7/2024 14:23	67505	WEWI_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/7/2024 14:23	44601	SALE_T2	1	0	-1	0.1	0	-0.1	-0.23	-0.24	0	0	0	0	0	0
4/7/2024 14:23	41602	CLEV_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/7/2024 14:23	64305	LINC_T1	3	4	1	0.37	0.33	-0.04	-0.73	-0.62	0	0	0	0	0	0
4/7/2024 14:23	60803	BUCK_T1	30	33	3	0.48	0.49	0.01	0	0	0	0	0	0	0	0
4/7/2024 14:23	67604	WARW_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/7/2024 14:23	67502	WEWI_T2	63	49	-14	0.26	0.29	0.03	-1.51	-1.54	1	1	0	900	900	0
4/7/2024 14:23	67605	WARW_T1	54	61	7	0.71	0.72	0.01	-1.17	-1.19	0	0	0	0	0	0
4/7/2024 14:23	20403	ASHF_T2	7	6	-1	0.49	0.37	-0.12	0.04	0.02	0	0	0	0	0	0
4/7/2024 14:23	60801	BUCK_T1	64	75	11	0.41	0.48	0.07	-0.17	-0.18	0	0	0	0	0	0
4/7/2024 14:23	67501	WEWI_T1	0	3	3	0	0.23	0.23	-0.56	-0.61	0	0	0	0	0	0
4/7/2024 14:23	67603	WARW_T1	2	3	1	0.45	0.67	0.22	0	0	0	0	0	0	0	0
4/7/2024 14:23	40901	JESH_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/7/2024 14:23	20401	ASHF_T2	3	1	-2	0.3	0.1	-0.2	-0.39	-0.38	0	0	0	0	0	0
4/7/2024 14:23	64303	LINC_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 14:23	40902	JESH_T1	2	3	1	0.55	0.47	-0.08	-1.62	-1.62	1	1	0	600	600	0
4/7/2024 14:23	20402	ASHF_T2	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
4/7/2024 14:23	41601	CLEV_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/7/2024 14:24	14802	TREI_T2	5	4	-1	0.38	0.43	0.05	0.28	0.27	0	0	0	0	0	0
4/7/2024 14:24	67604	WARW_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/7/2024 14:24	67502	WEWI_T2	63	49	-14	0.26	0.29	0.03	-1.51	-1.54	1	1	0	900	900	0
4/7/2024 14:24	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/7/2024 14:24	14801	TREI_T2	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/7/2024 14:24	56504	ROCK_T2	7	11	4	0.44	0.69	0.25	0	0	0	0	0	0	0	0
4/7/2024 14:24	67605	WARW_T1	54	61	7	0.71	0.72	0.01	-2.35	-2.38	0	0	0	0	0	0
4/7/2024 14:24	46203	DANV_T2	184	182	-2	0.98	0.91	-0.07	-2.5	-2.5	0	0	0	0	0	0
4/7/2024 14:24	56501	ROCK_T2	21	20	-1	0.57	0.7	0.13	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 14:24	67603	WARW_T1	2	3	1	0.45	0.67	0.22	0	0	0	0	0	0	0	0
4/7/2024 14:24	44301	BEAV_T2	31	37	6	0.44	0.47	0.03	0	0	0	0	0	0	0	0
4/7/2024 14:24	44302	BEAV_T2	488	528	40	0.84	0.87	0.03	0.3	0.3	0	0	0	0	0	0
4/7/2024 14:25	41602	CLEV_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/7/2024 14:25	20403	ASHF_T2	7	6	-1	0.49	0.37	-0.12	0.04	0.02	0	0	0	0	0	0
4/7/2024 14:25	56501	ROCK_T2	21	20	-1	0.57	0.7	0.13	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 14:25	56504	ROCK_T2	7	11	4	0.44	0.69	0.25	0	0	0	0	0	0	0	0
4/7/2024 14:25	20401	ASHF_T2	3	1	-2	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/7/2024 14:25	46203	DANV_T2	184	182	-2	0.98	0.91	-0.07	-2.5	-2.5	0	0	0	0	0	0
4/7/2024 14:25	67505	WEWI_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/7/2024 14:25	67502	WEWI_T2	63	49	-14	0.26	0.29	0.03	-1.51	-1.54	1	1	0	900	900	0
4/7/2024 14:25	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/7/2024 14:25	67501	WEWI_T1	0	3	3	0	0.23	0.23	-0.56	-0.61	0	0	0	0	0	0
4/7/2024 14:25	40902	JESH_T1	2	3	1	0.55	0.47	-0.08	-1.62	-1.62	1	1	0	600	600	0
4/7/2024 14:25	40901	JESH_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/7/2024 14:25	20402	ASHF_T2	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
4/7/2024 14:25	41601	CLEV_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/7/2024 14:26	60803	BUCK_T1	30	33	3	0.48	0.49	0.01	-0.53	-0.53	1	1	0	600	600	0
4/7/2024 14:26	67604	WARW_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/7/2024 14:26	67603	WARW_T1	2	3	1	0.45	0.67	0.22	0	0	0	0	0	0	0	0
4/7/2024 14:26	42801	SELI_T1	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
4/7/2024 14:26	42802	SELI_T1	0	0	0	0	0	0	-1.27	-1.3	0	0	0	0	0	0
4/7/2024 14:26	60801	BUCK_T1	64	75	11	0.41	0.48	0.07	0	0	0	0	0	0	0	0
4/7/2024 14:26	67605	WARW_T1	54	61	7	0.71	0.72	0.01	-1.17	-1.19	0	0	0	0	0	0
4/7/2024 14:27	45501	DERR_T2	6	8	2	0.55	0.56	0.01	-0.84	-0.85	2	2	0	1800	1800	0
4/7/2024 14:27	60803	BUCK_T1	30	33	3	0.48	0.49	0.01	0	0	0	0	0	0	0	0
4/7/2024 14:27	46203	DANV_T2	184	182	-2	0.98	0.91	-0.07	-2.5	-2.5	0	0	0	0	0	0
4/7/2024 14:27	11804	FRAN_T1	4	5	1	0.63	1.2	0.57	0.4	0.37	0	0	0	0	0	0
4/7/2024 14:27	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/7/2024 14:27	11805	FRAN_T1	0	7	7	0	0.66	0.66	0	0	0	0	0	0	0	0
4/7/2024 14:27	60801	BUCK_T1	64	75	11	0.41	0.48	0.07	-0.17	-0.18	0	0	0	0	0	0
4/7/2024 14:28	45501	DERR_T2	6	8	2	0.55	0.56	0.01	-0.84	-0.85	2	2	0	1800	1800	0
4/7/2024 14:28	64402	LAND_T2	3	3	0	1.13	1.03	-0.1	-0.61	-0.61	1	1	0	600	600	0
4/7/2024 14:28	64404	LAND_T2	5	5	0	0.48	0.44	-0.04	0	0	0	0	0	0	0	0
4/7/2024 14:28	60803	BUCK_T1	30	33	3	0.48	0.49	0.01	-0.53	-0.53	1	1	0	600	600	0
4/7/2024 14:28	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/7/2024 14:28	56501	ROCK_T2	21	20	-1	0.57	0.7	0.13	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 14:28	56504	ROCK_T2	7	11	4	0.44	0.69	0.25	0	0	0	0	0	0	0	0
4/7/2024 14:28	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/7/2024 14:28	60801	BUCK_T1	64	75	11	0.41	0.48	0.07	0	0	0	0	0	0	0	0
4/7/2024 14:29	46504	LOHA_T1	3	18	15	1.2	0.34	-0.86	0	0	0	0	0	0	0	0
4/7/2024 14:29	45501	DERR_T2	6	8	2	0.55	0.56	0.01	-0.84	-0.85	2	2	0	1800	1800	0
4/7/2024 14:29	11803	FRAN_T2	39	64	25	0.48	0.51	0.03	0	0	0	0	0	0	0	0
4/7/2024 14:29	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/7/2024 14:29	11801	FRAN_T2	5	6	1	0.66	0.58	-0.08	-0.06	-0.07	0	0	0	0	0	0
4/7/2024 14:29	46506	LOHA_T1	0	0	0	0	0	0	-1.09	-1.02	0	0	0	0	0	0
4/7/2024 14:30	46504	LOHA_T1	18	5	-13	0.34	0.88	0.54	0	0	0	0	0	0	0	0
4/7/2024 14:30	40902	JESH_T1	3	2	-1	0.43	0.6	0.17	-1.62	-1.62	1	1	0	600	600	0
4/7/2024 14:30	46506	LOHA_T1	0	0	0	0	0	0	-1.09	-1.02	0	0	0	0	0	0
4/7/2024 14:30	64301	LINC_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
4/7/2024 14:30	40901	JESH_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/7/2024 14:30	43201	MVIL_T2	0	1	1	0	0.3	0.3	-0.42	-0.4	0	0	0	0	0	0
4/7/2024 14:30	64303	LINC_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/7/2024 14:30	43202	MVIL_T2	1	4	3	1.1	0.4	-0.7	0	0	0	0	0	0	0	0
4/7/2024 14:30	52004	LING_T2	4	4	0	0.78	0.8	0.02	0.24	0.18	0	0	0	0	0	0
4/7/2024 14:30	64305	LINC_T1	4	4	0	0.28	0.38	0.1	0	0	0	0	0	0	0	0
4/7/2024 14:31	58402	MORO_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
4/7/2024 14:31	58401	MORO_T1	2	0	-2	0.2	0	-0.2	-1.21	-1.24	1	1	0	600	600	0
4/7/2024 14:32	60803	BUCK_T1	31	32	1	0.43	0.5	0.07	0	0	0	0	0	0	0	0
4/7/2024 14:32	66502	SMAN_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/7/2024 14:32	66504	SMAN_T2	3	3	0	0.63	0.53	-0.1	-1.22	-1.26	0	0	0	0	0	0
4/7/2024 14:32	66505	SMAN_T2	1	4	3	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/7/2024 14:32	44601	SALE_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
4/7/2024 14:32	60801	BUCK_T1	63	73	10	0.43	0.49	0.06	-0.17	-0.18	0	0	0	0	0	0
4/7/2024 14:32	66501	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/7/2024 14:32	64305	LINC_T1	4	4	0	0.28	0.38	0.1	0	0	0	0	0	0	0	0
4/7/2024 14:32	64303	LINC_T1	0	2	2	0	0.35	0.35	-0.28	-0.28	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/7/2024 14:33	64305	LINC_T1	4	4	0	0.28	0.38	0.1	-0.73	-0.62	0	0	0	0	0	0
4/7/2024 14:33	45003	LIME_2	3	3	0	1.97	2.03	0.06	0	0	2	2	0	2400	2400	0
4/7/2024 14:33	45001	LIME_2	37	43	6	0.55	0.54	-0.01	0	0	0	0	0	0	0	0
4/7/2024 14:33	64303	LINC_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/7/2024 14:33	44601	SALE_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
4/7/2024 14:33	43201	MVIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/7/2024 14:33	45002	LIME_2	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/7/2024 14:33	43202	MVIL_T2	1	4	3	1.1	0.4	-0.7	-0.74	-0.71	0	0	0	0	0	0
4/7/2024 14:34	40901	JESH_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/7/2024 14:34	40902	JESH_T1	3	2	-1	0.43	0.6	0.17	-1.62	-1.62	1	1	0	600	600	0
4/7/2024 14:34	45002	LIME_2	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/7/2024 14:34	45001	LIME_2	37	43	6	0.55	0.54	-0.01	0	0	0	0	0	0	0	0
4/7/2024 14:34	45003	LIME_2	3	3	0	1.97	2.03	0.06	0	0	1	1	0	1200	1200	0
4/7/2024 14:34	58402	MORO_T1	3	0	-3	0.17	0	-0.17	-0.62	0	2	1	-1	1500	900	-600
4/7/2024 14:34	58401	MORO_T1	2	0	-2	0.2	0	-0.2	-1.21	-1.24	1	1	0	600	600	0
4/7/2024 14:35	40901	JESH_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/7/2024 14:35	67603	WARW_T1	3	3	0	0.57	0.73	0.16	0	0	0	0	0	0	0	0
4/7/2024 14:35	67604	WARW_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/7/2024 14:35	67605	WARW_T1	49	65	16	0.67	0.71	0.04	-2.35	-2.38	0	0	0	0	0	0
4/7/2024 14:35	40902	JESH_T1	3	2	-1	0.43	0.6	0.17	-1.62	-1.62	1	1	0	600	600	0
4/7/2024 14:36	67604	WARW_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/7/2024 14:36	58401	MORO_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/7/2024 14:36	43201	MVIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/7/2024 14:36	58402	MORO_T1	3	0	-3	0.17	0	-0.17	-0.62	0	2	1	-1	1500	900	-600
4/7/2024 14:36	67603	WARW_T1	3	3	0	0.57	0.73	0.16	0	0	0	0	0	0	0	0
4/7/2024 14:36	57401	SPAN_T1	6	7	1	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/7/2024 14:36	56501	ROCK_T2	20	22	2	0.7	0.6	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 14:36	56503	ROCK_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/7/2024 14:36	67605	WARW_T1	49	65	16	0.67	0.71	0.04	-1.17	-1.19	0	0	0	0	0	0
4/7/2024 14:36	43202	MVIL_T2	1	4	3	1.1	0.4	-0.7	-0.74	-0.71	0	0	0	0	0	0
4/7/2024 14:36	56504	ROCK_T2	11	11	0	0.56	0.63	0.07	83.96	83.96	0	0	0	0	0	0
4/7/2024 14:36	57403	SPAN_T1	8	13	5	0.46	0.38	-0.08	0.01	0	0	0	0	0	0	0
4/7/2024 14:37	67401	WAKE_T2	213	250	37	0.34	0.39	0.05	0	0	0	0	0	0	0	0
4/7/2024 14:37	60605	NCOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/7/2024 14:37	66701	STRA_T1	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/7/2024 14:37	67402	WAKE_T2	14	25	11	0.25	0.28	0.03	0.16	0.16	0	0	0	0	0	0
4/7/2024 14:37	66703	STRA_T1	213	190	-23	0.36	0.31	-0.05	-0.32	-0.39	0	0	0	0	0	0
4/7/2024 14:38	60803	BUCK_T1	31	32	1	0.43	0.5	0.07	0	0	0	0	0	0	0	0
4/7/2024 14:38	60801	BUCK_T1	63	73	10	0.43	0.49	0.06	-0.18	-0.18	0	0	0	0	0	0
4/7/2024 14:38	56801	BENV_T1	31	33	2	0.79	0.71	-0.08	-2.51	-2.51	3	3	0	1800	1800	0
4/7/2024 14:38	60701	BREC_T1	2	2	0	0.25	0.55	0.3	0.02	0.05	0	0	0	0	0	0
4/7/2024 14:38	56803	BENV_T1	3	4	1	0.53	0.68	0.15	0	0	0	0	0	0	0	0
4/7/2024 14:38	42601	TUSC_T1	1	0	-1	0.1	0	-0.1	-0.55	-0.55	2	2	0	1800	1800	0
4/7/2024 14:38	59102	WALK_T2	7	6	-1	0.66	0.43	-0.23	0	0	0	0	0	0	0	0
4/7/2024 14:38	56503	ROCK_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/7/2024 14:38	56504	ROCK_T2	11	11	0	0.56	0.63	0.07	0	0	0	0	0	0	0	0
4/7/2024 14:38	59101	WALK_T2	38	1	-37	0.22	0.3	0.08	0	0.1	0	0	0	0	0	0
4/7/2024 14:38	56501	ROCK_T2	20	22	2	0.7	0.6	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 14:38	67502	WEWI_T2	31	64	33	0.37	0.26	-0.11	-1.54	-1.54	1	1	0	900	900	0
4/7/2024 14:39	64305	LINC_T1	4	4	0	0.28	0.38	0.1	-0.62	-0.65	0	0	0	0	0	0
4/7/2024 14:39	56803	BENV_T1	3	4	1	0.53	0.68	0.15	0	0	0	0	0	0	0	0
4/7/2024 14:39	67901	WNHO_T2	190	209	19	0.68	0.66	-0.02	-0.54	-0.54	0	0	0	0	0	0
4/7/2024 14:39	67501	WEWI_T1	3	1	-2	0.23	0.4	0.17	-0.61	-0.66	0	0	0	0	0	0
4/7/2024 14:39	67605	WARW_T1	49	65	16	0.67	0.71	0.04	-1.19	-1.19	0	0	0	0	0	0
4/7/2024 14:39	41602	CLEV_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/7/2024 14:39	41601	CLEV_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/7/2024 14:39	56501	ROCK_T2	20	22	2	0.7	0.6	-0.1	-0.02	-0.02	0	0	0	0	0	0
4/7/2024 14:39	67604	WARW_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/7/2024 14:39	56801	BENV_T1	31	33	2	0.79	0.71	-0.08	-0.84	-0.84	1	1	0	600	600	0
4/7/2024 14:39	46004	BERW_T2	5	1	-4	0.48	0.3	-0.18	-0.86	-0.89	0	0	0	0	0	0
4/7/2024 14:39	56802	BENV_T2	6	7	1	0.63	0.61	-0.02	-1.44	-1.48	0	0	0	0	0	0
4/7/2024 14:39	64303	LINC_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/7/2024 14:39	60801	BUCK_T1	63	73	10	0.43	0.49	0.06	-0.18	-0.18	0	0	0	0	0	0
4/7/2024 14:39	67603	WARW_T1	3	3	0	0.57	0.73	0.16	0	0	0	0	0	0	0	0
4/7/2024 14:39	67902	WNHO_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/7/2024 14:39	67505	WEWI_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/7/2024 14:39	56504	ROCK_T2	11	11	0	0.56	0.63	0.07	0	0	0	0	0	0	0	0
4/7/2024 14:39	60605	NCOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/7/2024 14:39	60803	BUCK_T1	31	32	1	0.43	0.5	0.07	0	0	0	0	0	0	0	0
4/7/2024 14:39	56503	ROCK_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/7/2024 14:40	59101	WALK_T2	38	1	-37	0.22	0.3	0.08	0	0.2	0	0	0	0	0	0
4/7/2024 14:40	56801	BENV_T1	31	33	2	0.79	0.71	-0.08	-0.84	-0.84	1	1	0	600	600	0
4/7/2024 14:40	56803	BENV_T1	3	4	1	0.53	0.68	0.15	0	0	0	0	0	0	0	0
4/7/2024 14:40	41602	CLEV_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/7/2024 14:40	59102	WALK_T2	7	6	-1	0.66	0.43	-0.23	0	0	0	0	0	0	0	0
4/7/2024 14:40	41601	CLEV_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/7/2024 14:40	67401	WAKE_T2	213	250	37	0.34	0.39	0.05	-0.91	-0.94	0	0	0	0	0	0
4/7/2024 14:40	67502	WEWI_T2	31	64	33	0.37	0.26	-0.11	-3.07	-3.08	2	2	0	1800	1800	0
4/7/2024 14:40	67402	WAKE_T2	14	25	11	0.25	0.28	0.03	0	0	0	0	0	0	0	0
4/7/2024 14:41	67501	WEWI_T1	3	1	-2	0.23	0.4	0.17	-0.61	-0.66	0	0	0	0	0	0
4/7/2024 14:41	60801	BUCK_T1	63	73	10	0.43	0.49	0.06	-0.18	-0.18	0	0	0	0	0	0
4/7/2024 14:41	67603	WARW_T1	3	3	0	0.57	0.73	0.16	0	0	0	0	0	0	0	0
4/7/2024 14:41	41601	CLEV_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/7/2024 14:41	41602	CLEV_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/7/2024 14:41	60803	BUCK_T1	31	32	1	0.43	0.5	0.07	-0.53	-0.54	1	1	0	600	600	0
4/7/2024 14:41	67605	WARW_T1	49	65	16	0.67	0.71	0.04	-1.19	-1.19	0	0	0	0	0	0
4/7/2024 14:41	67505	WEWI_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/7/2024 14:41	67604	WARW_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/7/2024 14:42	45501	DERR_T2	8	4	-4	0.51	0.88	0.37	-0.85	-0.83	2	2	0	1800	1800	0
4/7/2024 14:42	56803	BENV_T1	3	4	1	0.53	0.68	0.15	0	0	0	0	0	0	0	0
4/7/2024 14:42	28701	HAML_T2	4	4	0	0.75	0.93	0.18	0	0	0	0	0	0	0	0
4/7/2024 14:42	60701	BREC_T1	2	2	0	0.25	0.55	0.3	0.01	0.02	0	0	0	0	0	0
4/7/2024 14:42	67502	WEWI_T2	31	64	33	0.37	0.26	-0.11	-1.54	-1.54	1	1	0	900	900	0
4/7/2024 14:42	11805	FRAN_T1	4	7	3	0.63	0.69	0.06	0	0	0	0	0	0	0	0
4/7/2024 14:42	60801	BUCK_T1	63	73	10	0.43	0.49	0.06	-0.18	-0.18	0	0	0	0	0	0
4/7/2024 14:42	60803	BUCK_T1	31	32	1	0.43	0.5	0.07	0	0	0	0	0	0	0	0
4/7/2024 14:42	56802	BENV_T2	6	7	1	0.63	0.61	-0.02	-2.89	-2.96	0	0	0	0	0	0
4/7/2024 14:42	28703	HAML_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/7/2024 14:42	56801	BENV_T1	31	33	2	0.79	0.71	-0.08	-2.51	-2.51	3	3	0	1800	1800	0
4/7/2024 14:42	11804	FRAN_T1	5	4	-1	0.94	1.45	0.51	0.37	0.4	0	0	0	0	0	0
4/7/2024 14:42	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 14:43	66505	SMAN_T2	1	4	3	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/7/2024 14:43	60803	BUCK_T1	31	32	1	0.43	0.5	0.07	0	0	0	0	0	0	0	0
4/7/2024 14:43	66501	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/7/2024 14:43	66504	SMAN_T2	3	3	0	0.63	0.53	-0.1	-1.26	-1.14	0	0	0	0	0	0
4/7/2024 14:43	60801	BUCK_T1	63	73	10	0.43	0.49	0.06	-0.18	-0.18	0	0	0	0	0	0
4/7/2024 14:43	46602	LACK_T1	2	2	0	0.9	1.2	0.3	-1.3	-1.26	0	0	0	0	0	0
4/7/2024 14:43	66502	SMAN_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/7/2024 14:43	53501	EVIL_T2	18	24	6	0.69	0.56	-0.13	-0.8	-0.79	0	0	0	0	0	0
4/7/2024 14:44	64402	LAND_T2	3	3	0	1	1	0	-0.61	-0.59	1	1	0	600	600	0
4/7/2024 14:44	46506	LOHA_T1	0	0	0	0	0	0	-1.53	-1.67	0	0	0	0	0	0
4/7/2024 14:44	45501	DERR_T2	8	4	-4	0.51	0.88	0.37	-1.69	-1.65	4	4	0	3600	3600	0
4/7/2024 14:44	60803	BUCK_T1	31	32	1	0.43	0.5	0.07	-0.53	-0.54	1	1	0	600	600	0
4/7/2024 14:44	56504	ROCK_T2	11	11	0	0.56	0.63	0.07	0	0	0	0	0	0	0	0
4/7/2024 14:44	53501	EVIL_T2	18	24	6	0.69	0.56	-0.13	-0.8	-0.79	0	0	0	0	0	0
4/7/2024 14:44	60801	BUCK_T1	63	73	10	0.43	0.49	0.06	-0.18	-0.18	0	0	0	0	0	0
4/7/2024 14:44	56501	ROCK_T2	20	22	2	0.7	0.6	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 14:44	46504	LOHA_T1	18	5	-13	0.34	0.88	0.54	0	0	0	0	0	0	0	0
4/7/2024 14:44	56503	ROCK_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/7/2024 14:44	64404	LAND_T2	5	5	0	0.44	0.36	-0.08	0	0	0	0	0	0	0	0
4/7/2024 14:45	46506	LOHA_T1	0	0	0	0	0	0	-0.51	-0.56	0	0	0	0	0	0
4/7/2024 14:45	45501	DERR_T2	4	4	0	0.83	0.65	-0.18	-1.69	-1.65	4	4	0	3600	3600	0
4/7/2024 14:45	63202	MGTN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/7/2024 14:45	63201	MGTN_T2	1	1	0	0.5	0.8	0.3	0.4	0.38	2	2	0	1200	1200	0
4/7/2024 14:45	46504	LOHA_T1	5	3	-2	0.88	1.3	0.42	0	0	0	0	0	0	0	0
4/7/2024 14:45	53501	EVIL_T2	21	22	1	0.58	0.55	-0.03	-0.8	-0.79	0	0	0	0	0	0
4/7/2024 14:45	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 14:46	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 14:46	43202	MVIL_T2	4	1	-3	0.4	1.1	0.7	-0.71	-0.72	0	0	0	0	0	0
4/7/2024 14:46	63201	MGTN_T2	1	1	0	0.5	0.8	0.3	0.2	0.19	1	1	0	600	600	0
4/7/2024 14:46	46506	LOHA_T1	0	0	0	0	0	0	-0.51	-0.56	0	0	0	0	0	0
4/7/2024 14:46	63202	MGTN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/7/2024 14:46	43201	MVIL_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/7/2024 14:46	46504	LOHA_T1	5	3	-2	0.88	1.3	0.42	0	0	0	0	0	0	0	0
4/7/2024 14:47	42801	SELI_T1	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
4/7/2024 14:47	42802	SELI_T1	0	0	0	0	0	0	-1.3	-1.3	0	0	0	0	0	0
4/7/2024 14:47	64702	LITI_T2	0	0	0	0	0	0	-1.49	-1.52	0	0	0	0	0	0
4/7/2024 14:48	42801	SELI_T1	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
4/7/2024 14:48	42802	SELI_T1	0	0	0	0	0	0	-5.2	-5.2	0	0	0	0	0	0
4/7/2024 14:48	60803	BUCK_T1	32	29	-3	0.5	0.42	-0.08	0	0	0	0	0	0	0	0
4/7/2024 14:48	44601	SALE_T2	0	0	0	0	0	0	-0.24	-0.15	0	0	0	0	0	0
4/7/2024 14:48	43201	MVIL_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/7/2024 14:48	64702	LITI_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
4/7/2024 14:48	43202	MVIL_T2	4	1	-3	0.4	1.1	0.7	-0.71	-0.72	0	0	0	0	0	0
4/7/2024 14:48	60801	BUCK_T1	71	81	10	0.48	0.41	-0.07	-0.18	-0.18	0	0	0	0	0	0
4/7/2024 14:49	63201	MGTN_T2	1	1	0	0.5	0.8	0.3	0.2	0.19	1	1	0	600	600	0
4/7/2024 14:49	60803	BUCK_T1	32	29	-3	0.5	0.42	-0.08	0	0	0	0	0	0	0	0
4/7/2024 14:49	45003	LIME_2	3	3	0	1.97	1.97	0	0	0	1	1	0	1200	1200	0
4/7/2024 14:49	42801	SELI_T1	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
4/7/2024 14:49	63202	MGTN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/7/2024 14:49	44601	SALE_T2	0	0	0	0	0	0	-0.24	-0.15	0	0	0	0	0	0
4/7/2024 14:49	45001	LIME_2	39	37	-2	0.56	0.44	-0.12	0	0	0	0	0	0	0	0
4/7/2024 14:49	45002	LIME_2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
4/7/2024 14:49	42903	MIDD_T2	277	289	12	0.95	0.94	-0.01	0	0	0	0	0	0	0	0
4/7/2024 14:49	42802	SELI_T1	0	0	0	0	0	0	-1.3	-1.3	0	0	0	0	0	0
4/7/2024 14:49	42902	MIDD_T2	411	412	1	0.84	0.86	0.02	-0.68	-0.66	0	0	0	0	0	0
4/7/2024 14:49	42901	MIDD_T2	813	810	-3	0.74	0.75	0.01	0	0	0	0	0	0	0	0
4/7/2024 14:49	60801	BUCK_T1	71	81	10	0.48	0.41	-0.07	-0.18	-0.18	0	0	0	0	0	0
4/7/2024 14:50	63202	MGTN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/7/2024 14:50	42801	SELI_T1	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
4/7/2024 14:50	41902	REED_T1	3	3	0	0.67	0.63	-0.04	0.91	0.89	0	0	0	0	0	0
4/7/2024 14:50	42802	SELI_T1	0	0	0	0	0	0	-1.3	-1.3	0	0	0	0	0	0
4/7/2024 14:50	63201	MGTN_T2	1	1	0	0.5	0.8	0.3	0.2	0.19	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/7/2024 14:51	65803	RTWN_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/7/2024 14:51	67603	WARW_T1	3	3	0	0.6	0.63	0.03	0	0	0	0	0	0	0	0
4/7/2024 14:51	67604	WARW_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/7/2024 14:51	43202	MVIL_T2	4	1	-3	0.4	1.1	0.7	0	0	0	0	0	0	0	0
4/7/2024 14:51	65802	RTWN_T2	3	3	0	1.1	1.07	-0.03	-0.53	-0.53	0	0	0	0	0	0
4/7/2024 14:51	43201	MVIL_T2	1	1	0	0.3	0.1	-0.2	-0.4	-0.41	0	0	0	0	0	0
4/7/2024 14:51	42802	SELI_T1	0	0	0	0	0	0	-1.3	-1.3	0	0	0	0	0	0
4/7/2024 14:51	67605	WARW_T1	58	63	5	0.73	0.71	-0.02	-1.19	-1.19	0	0	0	0	0	0
4/7/2024 14:51	42801	SELI_T1	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
4/7/2024 14:52	42801	SELI_T1	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
4/7/2024 14:52	42802	SELI_T1	0	0	0	0	0	-1.3	-1.3	-1.3	0	0	0	0	0	0
4/7/2024 14:52	41902	REED_T1	3	3	0	0.67	0.63	-0.04	0.91	0.89	0	0	0	0	0	0
4/7/2024 14:53	41902	REED_T1	3	3	0	0.67	0.63	-0.04	0.89	0.93	0	0	0	0	0	0
4/7/2024 14:53	67201	TEHI_T1	120	119	-1	1.89	1.59	-0.3	-0.18	-0.14	0	0	0	0	0	0
4/7/2024 14:53	67203	TEHI_T1	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/7/2024 14:54	53101	WTWN_T1	7	8	1	0.77	0.66	-0.11	0	0	0	0	0	0	0	0
4/7/2024 14:54	42802	SELI_T1	0	0	0	0	0	0	-1.3	-1.29	0	0	0	0	0	0
4/7/2024 14:54	53102	WTWN_T1	0	1	1	0	0.1	0.1	-0.54	-0.54	0	0	0	0	0	0
4/7/2024 14:54	42801	SELI_T1	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
4/7/2024 14:55	44302	BEAV_T2	522	534	12	0.85	0.89	0.04	0.28	0.29	0	0	0	0	0	0
4/7/2024 14:55	56503	ROCK_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/7/2024 14:55	41602	CLEV_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/7/2024 14:55	56504	ROCK_T2	11	9	-2	0.63	0.62	-0.01	0	0	0	0	0	0	0	0
4/7/2024 14:55	41601	CLEV_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/7/2024 14:55	56501	ROCK_T2	15	34	19	0.77	0.44	-0.33	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 14:55	44301	BEAV_T2	33	37	4	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
4/7/2024 14:56	67604	WARW_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/7/2024 14:56	46203	DANV_T2	178	184	6	0.9	1.12	0.22	-4.96	-5.03	0	0	0	0	0	0
4/7/2024 14:56	41601	CLEV_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/7/2024 14:56	67605	WARW_T1	58	63	5	0.73	0.71	-0.02	-1.19	-1.19	0	0	0	0	0	0
4/7/2024 14:56	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 14:56	41602	CLEV_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/7/2024 14:56	67603	WARW_T1	3	3	0	0.6	0.63	0.03	0	0	0	0	0	0	0	0
4/7/2024 14:57	41601	CLEV_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/7/2024 14:57	41602	CLEV_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/7/2024 14:57	52004	LING_T2	4	4	0	0.75	0.8	0.05	0.11	0.15	0	0	0	0	0	0
4/7/2024 14:58	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 14:58	40101	HUNT_T2	0	1	1	0	0	0	-0.73	-0.69	0	0	0	0	0	0
4/7/2024 14:58	46203	DANV_T2	178	184	6	0.9	1.12	0.22	-2.48	-2.52	0	0	0	0	0	0
4/7/2024 14:59	40101	HUNT_T2	0	1	1	0	0	0	-0.73	-0.69	0	0	0	0	0	0
4/7/2024 14:59	64305	LINC_T1	4	4	0	0.33	0.38	0.05	-0.65	-0.68	0	0	0	0	0	0
4/7/2024 14:59	64303	LINC_T1	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/7/2024 15:00	45002	LIME_2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
4/7/2024 15:00	40101	HUNT_T2	0	0	0	0	0	0	-0.73	-0.69	0	0	0	0	0	0
4/7/2024 15:00	64303	LINC_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
4/7/2024 15:00	56501	ROCK_T2	22	34	12	0.58	0.46	-0.12	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 15:00	56503	ROCK_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/7/2024 15:00	64305	LINC_T1	4	3	-1	0.35	0.37	0.02	-0.65	-0.68	0	0	0	0	0	0
4/7/2024 15:00	56504	ROCK_T2	8	5	-3	0.68	0.62	-0.06	0	0	0	0	0	0	0	0
4/7/2024 15:00	45001	LIME_2	36	40	4	0.43	0.43	0	0	0	0	0	0	0	0	0
4/7/2024 15:00	45003	LIME_2	3	3	0	1.97	1.93	-0.04	0	0	1	1	0	1200	1200	0
4/7/2024 15:01	40101	HUNT_T2	0	0	0	0	0	0	-0.73	-0.69	0	0	0	0	0	0
4/7/2024 15:01	64303	LINC_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
4/7/2024 15:01	64305	LINC_T1	4	3	-1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
4/7/2024 15:01	64301	LINC_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
4/7/2024 15:02	58402	MORO_T1	0	0	0	0	0	0	-0.01	-0.03	1	1	0	900	900	0
4/7/2024 15:03	64305	LINC_T1	4	3	-1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
4/7/2024 15:03	64303	LINC_T1	2	2	0	0.35	0.3	-0.05	-0.29	-0.27	0	0	0	0	0	0
4/7/2024 15:04	45003	LIME_2	3	3	0	1.97	1.93	-0.04	0	0	1	1	0	1200	1200	0
4/7/2024 15:04	45002	LIME_2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
4/7/2024 15:04	45001	LIME_2	36	40	4	0.43	0.43	0	0	0	0	0	0	0	0	0
4/7/2024 15:05	64303	LINC_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
4/7/2024 15:05	42201	SHEN_T2	2	2	0	0.95	0.75	-0.2	0.39	0.38	0	0	0	0	0	0
4/7/2024 15:05	64305	LINC_T1	4	3	-1	0.35	0.37	0.02	-0.65	-0.68	0	0	0	0	0	0
4/7/2024 15:05	58402	MORO_T1	0	0	0	0	0	0	-0.01	-0.03	1	1	0	900	900	0
4/7/2024 15:06	14403	SSLA_T1	1	2	1	0.8	0.45	-0.35	0.53	0.57	0	0	0	0	0	0
4/7/2024 15:06	14404	SSLA_T1	1	1	0	4.2	4.4	0.2	0	0	0	0	0	0	0	0
4/7/2024 15:06	14401	SSLA_T1	2	2	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
4/7/2024 15:07	67605	WARW_T1	60	54	-6	0.74	0.68	-0.06	-1.19	-1.19	0	0	0	0	0	0
4/7/2024 15:07	67604	WARW_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/7/2024 15:07	67603	WARW_T1	3	2	-1	0.63	0.55	-0.08	0	0	0	0	0	0	0	0
4/7/2024 15:09	60803	BUCK_T1	28	30	2	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
4/7/2024 15:09	14404	SSLA_T1	1	1	0	4.2	4.4	0.2	0	0	0	0	0	0	0	0
4/7/2024 15:09	14403	SSLA_T1	1	2	1	0.8	0.45	-0.35	0.57	0.52	0	0	0	0	0	0
4/7/2024 15:09	60801	BUCK_T1	63	85	22	0.41	0.41	0	-0.19	-0.19	0	0	0	0	0	0
4/7/2024 15:09	14401	SSLA_T1	2	2	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
4/7/2024 15:10	59101	WALK_T2	0	0	0	0	0	0	0.5	1.27	0	0	0	0	0	0
4/7/2024 15:10	59102	WALK_T2	5	2	-3	0.42	0.4	-0.02	0	0	0	0	0	0	0	0
4/7/2024 15:11	67604	WARW_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/7/2024 15:11	41601	CLEV_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/7/2024 15:11	41602	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/7/2024 15:11	67603	WARW_T1	3	2	-1	0.63	0.55	-0.08	0	0	0	0	0	0	0	0
4/7/2024 15:11	67605	WARW_T1	60	54	-6	0.74	0.68	-0.06	-1.19	-1.21	0	0	0	0	0	0
4/7/2024 15:12	41601	CLEV_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/7/2024 15:12	40901	JESH_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
4/7/2024 15:12	40902	JESH_T1	2	2	0	0.35	0.6	0.25	-1.63	-1.63	1	1	0	600	600	0
4/7/2024 15:12	52001	LING_T1	2	5	3	0.3	0.18	-0.12	-1.12	-1.12	0	0	0	0	0	0
4/7/2024 15:12	41602	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/7/2024 15:13	41602	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/7/2024 15:13	41601	CLEV_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/7/2024 15:14	60801	BUCK_T1	63	85	22	0.41	0.41	0	-0.19	-0.19	0	0	0	0	0	0
4/7/2024 15:14	60803	BUCK_T1	28	30	2	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
4/7/2024 15:14	64702	LITI_T2	0	0	0	0	0	0	-0.67	-0.76	0	0	0	0	0	0
4/7/2024 15:15	64303	LINC_T1	2	2	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/7/2024 15:15	64305	LINC_T1	3	3	0	0.37	0.23	-0.14	-0.68	-0.7	0	0	0	0	0	0
4/7/2024 15:16	40902	JESH_T1	1	2	1	0.6	0.7	0.1	-1.63	-1.63	1	1	0	600	600	0
4/7/2024 15:16	40901	JESH_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
4/7/2024 15:17	40902	JESH_T1	1	2	1	0.6	0.7	0.1	-1.63	-1.63	1	1	0	600	600	0
4/7/2024 15:17	52001	LING_T1	4	3	-1	0.2	0.1	-0.1	-1.12	-1.12	0	0	0	0	0	0
4/7/2024 15:17	40901	JESH_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
4/7/2024 15:18	64702	LITI_T2	0	0	0	0	0	0	-1.34	-1.51	0	0	0	0	0	0
4/7/2024 15:19	58401	MORO_T1	0	0	0	0	0	0	-1.25	-1.25	1	1	0	600	600	0
4/7/2024 15:21	56501	ROCK_T2	32	21	-11	0.41	0.59	0.18	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 15:21	56504	ROCK_T2	5	3	-2	0.44	0.93	0.49	0	0	0	0	0	0	0	0
4/7/2024 15:21	64303	LINC_T1	2	2	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/7/2024 15:21	64305	LINC_T1	3	3	0	0.37	0.23	-0.14	-0.68	-0.7	0	0	0	0	0	0
4/7/2024 15:21	58401	MORO_T1	0	0	0	0	0	0	-1.25	-1.25	1	1	0	600	600	0
4/7/2024 15:21	56503	ROCK_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/7/2024 15:22	56501	ROCK_T2	32	21	-11	0.41	0.59	0.18	-0.02	-0.02	0	0	0	0	0	0
4/7/2024 15:22	56504	ROCK_T2	5	3	-2	0.44	0.93	0.49	0	0	0	0	0	0	0	0
4/7/2024 15:22	56503	ROCK_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/7/2024 15:23	56501	ROCK_T2	32	21	-11	0.41	0.59	0.18	-0.02	-0.02	0	0	0	0	0	0
4/7/2024 15:23	67603	WARW_T1	2	2	0	0.25	0.85	0.6	0	0	0	0	0	0	0	0
4/7/2024 15:23	56503	ROCK_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/7/2024 15:23	67604	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/7/2024 15:23	67605	WARW_T1	50	51	1	0.68	0.68	0	-1.21	-1.18	0	0	0	0	0	0
4/7/2024 15:23	56504	ROCK_T2	5	3	-2	0.44	0.93	0.49	0	0	0	0	0	0	0	0
4/7/2024 15:24	44302	BEAV_T2	493	506	13	0.88	0.87	-0.01	0.28	0.29	0	0	0	0	0	0
4/7/2024 15:24	56501	ROCK_T2	32	21	-11	0.41	0.59	0.18	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 15:24	44301	BEAV_T2	32	28	-4	0.44	0.46	0.02	0	0	0	0	0	0	0	0
4/7/2024 15:24	56503	ROCK_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/7/2024 15:24	56504	ROCK_T2	5	3	-2	0.44	0.93	0.49	0	0	0	0	0	0	0	0
4/7/2024 15:25	44301	BEAV_T2	32	28	-4	0.44	0.46	0.02	0	0	0	0	0	0	0	0
4/7/2024 15:25	44302	BEAV_T2	493	506	13	0.88	0.87	-0.01	0.56	0.58	0	0	0	0	0	0
4/7/2024 15:25	60801	BUCK_T1	77	76	-1	0.41	0.41	0	-0.19	-0.18	0	0	0	0	0	0
4/7/2024 15:25	60803	BUCK_T1	26	29	3	0.38	0.41	0.03	0	0	0	0	0	0	0	0
4/7/2024 15:26	56501	ROCK_T2	32	21	-11	0.41	0.59	0.18	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 15:26	56503	ROCK_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/7/2024 15:26	67605	WARW_T1	50	51	1	0.68	0.68	0	-1.21	-1.18	0	0	0	0	0	0
4/7/2024 15:26	67604	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/7/2024 15:26	67603	WARW_T1	2	2	0	0.25	0.85	0.6	0	0	0	0	0	0	0	0
4/7/2024 15:26	56504	ROCK_T2	5	3	-2	0.44	0.93	0.49	0	0	0	0	0	0	0	0
4/7/2024 15:27	44301	BEAV_T2	32	28	-4	0.44	0.46	0.02	0	0	0	0	0	0	0	0
4/7/2024 15:27	44302	BEAV_T2	493	506	13	0.88	0.87	-0.01	0.28	0.29	0	0	0	0	0	0
4/7/2024 15:28	40901	JESH_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
4/7/2024 15:28	40902	JESH_T1	1	2	1	0.6	0.7	0.1	-1.63	-1.63	1	1	0	600	600	0
4/7/2024 15:29	26401	INOR_T1	1	3	2	9.1	3.57	-5.53	0.33	0.32	0	0	0	0	0	0
4/7/2024 15:29	26402	INOR_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/7/2024 15:30	60801	BUCK_T1	73	67	-6	0.41	0.37	-0.04	-0.19	-0.18	0	0	0	0	0	0
4/7/2024 15:30	60803	BUCK_T1	27	24	-3	0.42	0.43	0.01	0	0	0	0	0	0	0	0
4/7/2024 15:31	11507	FREE_T2	0	0	0	0	0	0	1.64	1.69	0	0	0	0	0	0
4/7/2024 15:32	52402	GRPA_T2	4	3	-1	1.28	1.8	0.52	0	0	0	0	0	0	0	0
4/7/2024 15:32	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/7/2024 15:32	52403	GRPA_T2	7	1	-6	0.34	0.3	-0.04	0	0	0	0	0	0	0	0
4/7/2024 15:33	40902	JESH_T1	2	2	0	0.6	0.7	0.1	-1.63	-1.63	1	1	0	600	600	0
4/7/2024 15:33	40901	JESH_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/7/2024 15:37	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 15:37	56501	ROCK_T2	21	20	-1	0.58	0.51	-0.07	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 15:37	56503	ROCK_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/7/2024 15:37	56504	ROCK_T2	3	4	1	0.93	0.58	-0.35	0	0	0	0	0	0	0	0
4/7/2024 15:37	20402	ASHF_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/7/2024 15:37	20403	ASHF_T2	1	4	3	0.2	0.38	0.18	0	0.01	0	0	0	0	0	0
4/7/2024 15:38	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 15:38	20402	ASHF_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/7/2024 15:38	56503	ROCK_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/7/2024 15:38	56501	ROCK_T2	21	20	-1	0.58	0.51	-0.07	-0.03	-0.03	0	0	0	0	0	0
4/7/2024 15:38	20403	ASHF_T2	1	4	3	0.2	0.38	0.18	0.01	0	0	0	0	0	0	0
4/7/2024 15:38	56504	ROCK_T2	3	4	1	0.93	0.58	-0.35	0	0	0	0	0	0	0	0
4/7/2024 15:39	56501	ROCK_T2	21	20	-1	0.58	0.51	-0.07	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 15:39	56503	ROCK_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/7/2024 15:39	56504	ROCK_T2	3	4	1	0.93	0.58	-0.35	0	0	0	0	0	0	0	0
4/7/2024 15:40	56501	ROCK_T2	21	20	-1	0.58	0.51	-0.07	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 15:40	56503	ROCK_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/7/2024 15:40	56504	ROCK_T2	3	4	1	0.93	0.58	-0.35	0	0	0	0	0	0	0	0
4/7/2024 15:41	67603	WARW_T1	1	2	1	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/7/2024 15:41	67605	WARW_T1	51	47	-4	0.68	0.58	-0.1	-1.18	-1.19	0	0	0	0	0	0
4/7/2024 15:42	56501	ROCK_T2	21	20	-1	0.58	0.51	-0.07	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 15:42	56504	ROCK_T2	3	4	1	0.93	0.58	-0.35	0	0	0	0	0	0	0	0
4/7/2024 15:42	56503	ROCK_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/7/2024 15:44	52001	LING_T1	3	0	-3	0.1	0	-0.1	-1.13	-1.12	0	0	0	0	0	0
4/7/2024 15:44	40902	JESH_T1	2	2	0	0.6	0.7	0.1	-1.63	-1.62	1	1	0	600	600	0
4/7/2024 15:44	40901	JESH_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/7/2024 15:46	67603	WARW_T1	2	2	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
4/7/2024 15:46	67605	WARW_T1	43	41	-2	0.61	0.59	-0.02	-1.18	-1.19	0	0	0	0	0	0
4/7/2024 15:49	40902	JESH_T1	2	1	-1	0.7	0.7	0	-1.63	-1.62	1	1	0	600	600	0
4/7/2024 15:49	52001	LING_T1	0	0	0	0	0	0	-1.13	-1.12	0	0	0	0	0	0
4/7/2024 15:49	40901	JESH_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/7/2024 15:52	56504	ROCK_T2	3	4	1	0.73	0.23	-0.5	0	0	0	0	0	0	0	0
4/7/2024 15:52	56501	ROCK_T2	18	20	2	0.53	0.41	-0.12	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 15:52	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/7/2024 15:52	41902	REED_T1	4	5	1	0.35	0.32	-0.03	2.74	2.64	0	0	0	0	0	0
4/7/2024 15:55	44302	BEAV_T2	496	488	-8	0.81	0.79	-0.02	0.29	0.29	0	0	0	0	0	0
4/7/2024 15:55	44301	BEAV_T2	23	16	-7	0.46	0.54	0.08	0	0	0	0	0	0	0	0
4/7/2024 15:56	67605	WARW_T1	43	41	-2	0.61	0.59	-0.02	-1.19	-1.17	0	0	0	0	0	0
4/7/2024 15:56	67603	WARW_T1	2	2	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
4/7/2024 15:58	56504	ROCK_T2	3	4	1	0.73	0.23	-0.5	0	0	0	0	0	0	0	0
4/7/2024 15:58	56501	ROCK_T2	18	20	2	0.53	0.41	-0.12	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 15:58	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/7/2024 15:59	40901	JESH_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/7/2024 15:59	40902	JESH_T1	2	1	-1	0.7	0.7	0	-1.62	-1.61	1	1	0	600	600	0
4/7/2024 16:01	67603	WARW_T1	2	1	-1	0.65	1.1	0.45	0	0	0	0	0	0	0	0
4/7/2024 16:01	67605	WARW_T1	41	27	-14	0.59	0.68	0.09	-1.19	-1.17	0	0	0	0	0	0
4/7/2024 16:02	63803	HEMP_T1	3	2	-1	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
4/7/2024 16:02	63801	HEMP_T1	8	6	-2	0.59	0.57	-0.02	-0.38	-0.39	0	0	0	0	0	0
4/7/2024 16:02	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
4/7/2024 16:05	40902	JESH_T1	1	1	0	0.7	0.3	-0.4	-1.62	-1.61	1	1	0	600	600	0
4/7/2024 16:05	40901	JESH_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/7/2024 16:07	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
4/7/2024 16:07	67605	WARW_T1	41	27	-14	0.59	0.68	0.09	-1.19	-1.17	0	0	0	0	0	0
4/7/2024 16:07	63801	HEMP_T1	8	6	-2	0.59	0.57	-0.02	-0.38	-0.39	0	0	0	0	0	0
4/7/2024 16:07	63803	HEMP_T1	3	2	-1	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
4/7/2024 16:07	67603	WARW_T1	2	1	-1	0.65	1.1	0.45	0	0	0	0	0	0	0	0
4/7/2024 16:08	56802	BENV_T2	3	0	-3	0.93	0.7	-0.23	-1.46	-1.47	0	0	0	0	0	0
4/7/2024 16:11	67603	WARW_T1	2	1	-1	0.65	1.1	0.45	0	0	0	0	0	0	0	0
4/7/2024 16:11	67605	WARW_T1	41	27	-14	0.59	0.68	0.09	-1.17	-1.14	0	0	0	0	0	0
4/7/2024 16:12	24101	EHAZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/7/2024 16:12	24105	EHAZ_T1	4	4	0	5.35	5.35	0	-1.99	-2	1	1	0	1200	1200	0
4/7/2024 16:12	24102	EHAZ_T1	0	4	4	0	0.7	0.7	0	0	0	0	0	0	0	0
4/7/2024 16:13	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
4/7/2024 16:16	40902	JESH_T1	1	1	0	0.3	0.2	-0.1	-1.61	-1.59	1	1	0	600	600	0
4/7/2024 16:16	40901	JESH_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/7/2024 16:18	24105	EHAZ_T1	4	4	0	5.35	5.45	0.1	-1.99	-2	1	1	0	1200	1200	0
4/7/2024 16:18	24102	EHAZ_T1	1	4	3	0.7	0.7	0	0	0	0	0	0	0	0	0
4/7/2024 16:21	40901	JESH_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/7/2024 16:21	40902	JESH_T1	1	1	0	0.3	0.2	-0.1	-1.61	-1.59	1	1	0	600	600	0
4/7/2024 16:22	67603	WARW_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
4/7/2024 16:22	67605	WARW_T1	27	17	-10	0.68	0.72	0.04	-1.17	-1.14	0	0	0	0	0	0
4/7/2024 16:24	56504	ROCK_T2	3	1	-2	0.27	0.5	0.23	0	0	0	0	0	0	0	0
4/7/2024 16:24	56501	ROCK_T2	16	10	-6	0.31	0.62	0.31	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 16:26	67603	WARW_T1	1	0	-1	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
4/7/2024 16:26	67605	WARW_T1	27	17	-10	0.68	0.72	0.04	-1.14	-1.15	0	0	0	0	0	0
4/7/2024 16:29	56504	ROCK_T2	3	1	-2	0.27	0.5	0.23	0	0	0	0	0	0	0	0
4/7/2024 16:29	56501	ROCK_T2	16	10	-6	0.31	0.62	0.31	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 16:34	41902	REED_T1	1	0	-1	0.1	0	-0.1	2.71	2.71	0	0	0	0	0	0
4/7/2024 16:36	67603	WARW_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
4/7/2024 16:36	67605	WARW_T1	17	17	0	0.72	0.55	-0.17	-1.14	-1.15	0	0	0	0	0	0
4/7/2024 16:40	56501	ROCK_T2	9	10	1	0.57	0.5	-0.07	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 16:40	56504	ROCK_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/7/2024 16:41	67603	WARW_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
4/7/2024 16:41	67605	WARW_T1	17	17	0	0.72	0.55	-0.17	-1.15	-1.13	0	0	0	0	0	0
4/7/2024 16:43	40101	HUNT_T2	0	0	0	0	0	0	-0.74	-0.7	0	0	0	0	0	0
4/7/2024 16:45	56504	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/7/2024 16:45	56501	ROCK_T2	10	9	-1	0.5	0.46	-0.04	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 16:45	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 16:46	40101	HUNT_T2	0	0	0	0	0	0	-0.74	-0.7	0	0	0	0	0	0
4/7/2024 16:48	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.2	1	1	0	600	600	0
4/7/2024 16:50	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.2	1	1	0	600	600	0
4/7/2024 16:52	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 16:52	67605	WARW_T1	17	15	-2	0.52	0.46	-0.06	-1.15	-1.13	0	0	0	0	0	0
4/7/2024 16:56	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 16:56	67605	WARW_T1	17	15	-2	0.52	0.46	-0.06	-1.13	-1.18	0	0	0	0	0	0
4/7/2024 17:01	41801	GOCI_T2	15	2	-13	0.16	0.25	0.09	0	0	0	0	0	0	0	0
4/7/2024 17:07	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 17:07	67605	WARW_T1	15	14	-1	0.45	0.39	-0.06	-1.13	-1.18	0	0	0	0	0	0
4/7/2024 17:11	67605	WARW_T1	15	14	-1	0.45	0.39	-0.06	-1.18	-1.17	0	0	0	0	0	0
4/7/2024 17:11	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 17:14	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
4/7/2024 17:18	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
4/7/2024 17:22	67605	WARW_T1	14	12	-2	0.39	0.35	-0.04	-1.18	-1.17	0	0	0	0	0	0
4/7/2024 17:22	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/7/2024 17:26	67605	WARW_T1	14	12	-2	0.39	0.35	-0.04	-1.17	-1.17	0	0	0	0	0	0
4/7/2024 17:26	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/7/2024 17:28	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
4/7/2024 17:31	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
4/7/2024 17:36	67605	WARW_T1	10	12	2	0.38	0.36	-0.02	-1.17	-1.17	0	0	0	0	0	0
4/7/2024 17:41	67605	WARW_T1	10	12	2	0.38	0.36	-0.02	-1.17	-1.13	0	0	0	0	0	0
4/7/2024 19:38	52404	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 19:38	52402	GRPA_T2	1	1	0	3.4	3.3	-0.1	0	0	0	0	0	0	0	0
4/7/2024 19:38	52403	GRPA_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
4/7/2024 20:20	46801	HEPB_T2	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
4/7/2024 20:20	63602	LETO_T1	0	0	0	0	0	0	-0.52	-0.59	0	0	0	0	0	0
4/7/2024 20:27	57403	SPAN_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
4/7/2024 20:40	53903	HALI_T2	2	2	0	0.85	1	0.15	-0.22	-0.22	0	0	0	0	0	0
4/7/2024 20:40	53902	HALI_T2	1	1	0	4.9	5.3	0.4	0	0	0	0	0	0	0	0
4/7/2024 20:40	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 21:11	27502	WEIS_T2	0	0	0	0	0	0	-0.75	-0.8	0	0	0	0	0	0
4/7/2024 21:12	65001	NEFF_T2	0	8	8	0	0.11	0.11	-1.45	-1.44	1	1	0	1200	1200	0
4/7/2024 21:13	59402	RFLD_T2	0	0	0	0	0	0	-0.89	-0.86	1	1	0	450	450	0
4/7/2024 21:18	16402	MOPO_T1	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
4/7/2024 21:30	17002	RIRO_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
4/7/2024 21:33	64201	KINZ_T1	53	94	41	0.41	0.54	0.13	0	0	0	0	0	0	0	0
4/7/2024 21:33	64204	KINZ_T1	127	381	254	0.32	0.4	0.08	0	0	0	0	0	0	0	0
4/7/2024 21:33	12701	MACU_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
4/7/2024 21:33	64202	KINZ_T1	70	93	23	0.49	0.65	0.16	0	0	0	0	0	0	0	0
4/7/2024 21:33	64203	KINZ_T1	517	739	222	0.35	0.59	0.24	-0.11	-0.15	0	0	0	0	0	0
4/7/2024 21:34	63201	MGTN_T2	0	0	0	0	0	0	0.15	0.17	1	1	0	600	600	0
4/7/2024 21:34	20401	ASHF_T2	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
4/7/2024 21:35	45303	WBER_T2	8	8	0	0.66	0.96	0.3	-0.48	-0.46	0	0	0	0	0	0
4/7/2024 21:35	56802	BENV_T2	0	0	0	0	0	0	-1.46	-1.55	0	0	0	0	0	0
4/7/2024 21:35	47001	HUGH_T2	1	1	0	0.4	0	-0.4	-0.94	-0.93	0	0	0	0	0	0
4/7/2024 21:36	63201	MGTN_T2	0	0	0	0	0	0	0.15	0.17	1	1	0	600	600	0
4/7/2024 21:36	28703	HAML_T2	3	3	0	0.4	0.73	0.33	0	0	0	0	0	0	0	0
4/7/2024 21:36	65603	QVIL_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
4/7/2024 21:36	28704	HAML_T2	4	4	0	0.28	0.38	0.1	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 21:36	28702	HAML_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/7/2024 21:36	60101	COCA_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
4/7/2024 21:36	65602	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/7/2024 21:36	13901	SEID_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
4/7/2024 21:36	64702	LITI_T2	0	0	0	0	0	0	-1.68	-1.44	0	0	0	0	0	0
4/7/2024 21:36	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:37	57401	SPAN_T1	0	0	0	0	0	0	-0.95	-0.93	1	1	0	600	600	0
4/7/2024 21:37	66504	SMAN_T2	0	0	0	0	0	0	-1.55	-1.43	0	0	0	0	0	0
4/7/2024 21:37	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/7/2024 21:37	42802	SELI_T1	1	1	0	0.8	0.1	-0.7	-1.4	-1.44	0	0	0	0	0	0
4/7/2024 21:38	15604	NSTR_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
4/7/2024 21:38	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:38	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.67	0	0	0	0	0	0
4/7/2024 21:38	44601	SALE_T2	0	0	0	0	0	0	-0.26	-0.23	0	0	0	0	0	0
4/7/2024 21:38	65001	NEFF_T2	8	43	35	0.11	0.13	0.02	-1.45	-1.47	1	1	0	1200	1200	0
4/7/2024 21:38	11507	FREE_T2	0	0	0	0	0	0	1.49	1.61	0	0	0	0	0	0
4/7/2024 21:38	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:38	64202	KINZ_T1	70	93	23	0.49	0.65	0.16	0	0	0	0	0	0	0	0
4/7/2024 21:38	64203	KINZ_T1	517	739	222	0.35	0.59	0.24	0	0	0	0	0	0	0	0
4/7/2024 21:38	64204	KINZ_T1	127	381	254	0.32	0.4	0.08	0	0	0	0	0	0	0	0
4/7/2024 21:38	67502	WEWI_T2	0	0	0	0	0	0	-1.61	-1.61	1	1	0	900	900	0
4/7/2024 21:38	42601	TUSC_T1	0	0	0	0	0	0	-0.72	-0.72	2	2	0	1800	1800	0
4/7/2024 21:38	64201	KINZ_T1	53	94	41	0.41	0.54	0.13	0.58	0.59	0	0	0	0	0	0
4/7/2024 21:38	25402	LAHA_T2	0	0	0	0	0	0	-0.91	-0.91	0	0	0	0	0	0
4/7/2024 21:38	63201	MGTN_T2	0	0	0	0	0	0	0.17	0.15	1	1	0	600	600	0
4/7/2024 21:38	42201	SHEN_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
4/7/2024 21:39	63404	HONY_T1	24	77	53	0.15	0.25	0.1	0	0	0	0	0	0	0	0
4/7/2024 21:39	63401	HONY_T1	0	0	0	0	0	0	0.49	0.53	0	0	0	0	0	0
4/7/2024 21:39	67605	WARW_T1	7	15	8	0.23	0.45	0.22	-1.07	-1.09	0	0	0	0	0	0
4/7/2024 21:39	56801	BENV_T1	12	14	2	1	1.44	0.44	-0.86	-0.85	1	1	0	600	600	0
4/7/2024 21:39	11801	FRAN_T2	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
4/7/2024 21:39	26401	INOR_T1	1	1	0	9.4	9.5	0.1	0.3	0.31	0	0	0	0	0	0
4/7/2024 21:39	20403	ASHF_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
4/7/2024 21:39	56802	BENV_T2	0	0	0	0	0	0	-3.11	-3.04	0	0	0	0	0	0
4/7/2024 21:39	10801	CHHI_T1	0	0	0	0	0	0	-1.69	-1.09	2	2	0	1500	1500	0
4/7/2024 21:39	60101	COCA_T1	0	0	0	0	0	0	0.16	0.12	0	0	0	0	0	0
4/7/2024 21:39	56501	ROCK_T2	8	14	6	0.59	0.61	0.02	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 21:39	46004	BERW_T2	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
4/7/2024 21:39	67204	TEHI_T2	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
4/7/2024 21:40	57303	MOAL_T2	1	1	0	7.6	7.2	-0.4	0	0	0	0	0	0	0	0
4/7/2024 21:40	26002	WDAM_T1	1	5	4	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
4/7/2024 21:40	14403	SSLA_T1	0	0	0	0	0	0	0.62	0.58	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/7/2024 21:40	57401	SPAN_T1	0	0	0	0	0	0	-1.86	-1.95	2	2	0	1200	1200	0
4/7/2024 21:40	58001	WCAR_T1	4	4	0	0.8	1.03	0.23	0	0	0	0	0	0	0	0
4/7/2024 21:40	44301	BEAV_T2	6	7	1	0.47	0.53	0.06	0	0	0	0	0	0	0	0
4/7/2024 21:40	47001	HUGH_T2	1	1	0	0.4	0	-0.4	-0.93	-0.96	0	0	0	0	0	0
4/7/2024 21:40	26001	WDAM_T1	0	0	0	0	0	0	-0.42	-0.39	0	0	0	0	0	0
4/7/2024 21:40	58003	WCAR_T1	1	1	0	1.2	1.3	0.1	-0.18	-0.17	1	1	0	600	600	0
4/7/2024 21:40	14404	SSLA_T1	1	1	0	4.2	4.5	0.3	0	0	0	0	0	0	0	0
4/7/2024 21:40	44302	BEAV_T2	193	273	80	0.47	0.54	0.07	0.56	0.54	0	0	0	0	0	0
4/7/2024 21:40	57304	MOAL_T2	0	1	1	0	0.2	0.2	-0.53	-0.48	0	0	0	0	0	0
4/7/2024 21:40	67502	WEWI_T2	0	0	0	0	0	0	-3.23	-3.21	2	2	0	1800	1800	0
4/7/2024 21:40	67605	WARW_T1	7	15	8	0.23	0.45	0.22	-1.07	-1.09	0	0	0	0	0	0
4/7/2024 21:41	67502	WEWI_T2	0	0	0	0	0	0	-1.61	-1.61	1	1	0	900	900	0
4/7/2024 21:41	40602	PIGR_T1	0	0	0	0	0	0	-1.53	-1.52	2	2	0	1200	1200	0
4/7/2024 21:41	60801	BUCK_T1	0	16	16	0	0.16	0.16	-0.25	-0.26	0	0	0	0	0	0
4/7/2024 21:41	52004	LING_T2	1	0	-1	0.3	0	-0.3	-0.18	-0.19	0	0	0	0	0	0
4/7/2024 21:41	67204	TEHI_T2	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
4/7/2024 21:41	42903	MIDD_T2	11	41	30	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
4/7/2024 21:41	65802	RTWN_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
4/7/2024 21:41	67501	WEWI_T1	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
4/7/2024 21:41	14802	TREI_T2	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
4/7/2024 21:41	55001	NEWP_T1	0	30	30	0	0.21	0.21	0	0	0	0	0	0	0	0
4/7/2024 21:41	56501	ROCK_T2	8	14	6	0.59	0.61	0.02	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 21:41	24902	WHHA_T1	3	3	0	0.93	0.45	-0.48	0	0	0	0	0	0	0	0
4/7/2024 21:41	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:41	64101	REFR_T1	0	0	0	0	0	0	-0.97	-1.02	0	0	0	0	0	0
4/7/2024 21:41	55002	NEWP_T1	6	6	0	0.77	1	0.23	-0.32	-0.31	0	0	0	0	0	0
4/7/2024 21:41	57403	SPAN_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
4/7/2024 21:41	58402	MORO_T1	0	0	0	0	0	0	-0.62	-0.63	2	2	0	1500	1500	0
4/7/2024 21:41	42902	MIDD_T2	115	168	53	0.34	0.43	0.09	-0.68	-0.7	0	0	0	0	0	0
4/7/2024 21:41	60803	BUCK_T1	1	6	5	0.1	0.17	0.07	-0.58	-0.57	1	1	0	600	600	0
4/7/2024 21:41	16302	ALPA_T2	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
4/7/2024 21:41	42901	MIDD_T2	193	271	78	0.36	0.38	0.02	0	0	0	0	0	0	0	0
4/7/2024 21:42	46506	LOHA_T1	0	1	1	0	0.8	0.8	-0.56	-0.6	0	0	0	0	0	0
4/7/2024 21:42	64303	LINC_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
4/7/2024 21:42	45501	DERR_T2	0	0	0	0	0	0	-0.89	-0.88	2	2	0	1800	1800	0
4/7/2024 21:42	60701	BREC_T1	0	0	0	0	0	0	-0.6	-0.61	1	1	0	600	600	0
4/7/2024 21:42	56501	ROCK_T2	8	14	6	0.59	0.61	0.02	-0.02	-0.02	0	0	0	0	0	0
4/7/2024 21:42	53903	HALI_T2	2	2	0	0.9	1.3	0.4	-0.22	-0.22	0	0	0	0	0	0
4/7/2024 21:42	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
4/7/2024 21:42	57401	SPAN_T1	0	0	0	0	0	0	-0.93	-0.98	1	1	0	600	600	0
4/7/2024 21:42	53902	HALI_T2	1	1	0	5.4	5.7	0.3	0	0	0	0	0	0	0	0
4/7/2024 21:42	67401	WAKE_T2	0	24	24	0	0.15	0.15	0	0	0	0	0	0	0	0
4/7/2024 21:42	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:42	53901	HALI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/7/2024 21:42	46504	LOHA_T1	2	2	0	0.95	1	0.05	0	0	0	0	0	0	0	0
4/7/2024 21:42	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:42	45303	WBER_T2	8	8	0	0.66	0.96	0.3	-0.46	-0.49	0	0	0	0	0	0
4/7/2024 21:42	14802	TREI_T2	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
4/7/2024 21:42	46203	DANV_T2	62	85	23	0.2	0.29	0.09	-2.44	-2.46	0	0	0	0	0	0
4/7/2024 21:42	56802	BENV_T2	0	0	0	0	0	0	-4.66	-4.56	0	0	0	0	0	0
4/7/2024 21:43	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.67	0	0	0	0	0	0
4/7/2024 21:43	64204	KINZ_T1	127	381	254	0.32	0.4	0.08	0	0	0	0	0	0	0	0
4/7/2024 21:43	44601	SALE_T2	0	0	0	0	0	0	-0.26	-0.23	0	0	0	0	0	0
4/7/2024 21:43	45501	DERR_T2	0	0	0	0	0	0	-1.77	-1.76	4	4	0	3600	3600	0
4/7/2024 21:43	45003	LIME_2	1	1	0	3.6	4.1	0.5	0	0	1	1	0	1200	1200	0
4/7/2024 21:43	26002	WDAM_T1	1	5	4	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
4/7/2024 21:43	56802	BENV_T2	0	0	0	0	0	0	-1.55	-1.52	0	0	0	0	0	0
4/7/2024 21:43	12701	MACU_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
4/7/2024 21:43	64203	KINZ_T1	517	739	222	0.35	0.59	0.24	0	0	0	0	0	0	0	0
4/7/2024 21:43	56801	BENV_T1	12	14	2	1	1.44	0.44	-1.72	-1.7	2	2	0	1200	1200	0
4/7/2024 21:43	46602	LACR_T1	0	0	0	0	0	0	-1.24	-1.24	0	0	0	0	0	0
4/7/2024 21:43	67401	WAKE_T2	0	24	24	0	0.15	0.15	0	0	0	0	0	0	0	0
4/7/2024 21:43	59101	WALK_T2	0	0	0	0	0	0	1.44	1.74	0	0	0	0	0	0
4/7/2024 21:43	26001	WDAM_T1	0	0	0	0	0	0	-0.84	-0.78	0	0	0	0	0	0
4/7/2024 21:43	64201	KINZ_T1	53	94	41	0.41	0.54	0.13	0.58	0.59	0	0	0	0	0	0
4/7/2024 21:43	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
4/7/2024 21:43	53102	WTWN_T1	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
4/7/2024 21:43	64202	KINZ_T1	70	93	23	0.49	0.65	0.16	0	0	0	0	0	0	0	0
4/7/2024 21:43	60803	BUCK_T1	1	6	5	0.1	0.17	0.07	0	0	0	0	0	0	0	0
4/7/2024 21:43	60801	BUCK_T1	0	16	16	0	0.16	0.16	-0.25	-0.26	0	0	0	0	0	0
4/7/2024 21:43	60701	BREC_T1	0	0	0	0	0	0	-1.19	-1.21	2	2	0	1200	1200	0
4/7/2024 21:44	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:44	46504	LOHA_T1	2	2	0	0.95	1	0.05	0	0	0	0	0	0	0	0
4/7/2024 21:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:44	60801	BUCK_T1	0	16	16	0	0.16	0.16	-0.25	-0.26	0	0	0	0	0	0
4/7/2024 21:44	64402	LAND_T2	0	0	0	0	0	0	-0.67	-0.63	1	1	0	600	600	0
4/7/2024 21:44	40902	JESH_T1	0	0	0	0	0	0	-1.61	-1.61	1	1	0	600	600	0
4/7/2024 21:44	52402	GRPA_T2	1	1	0	4	4.8	0.8	-0.9	-0.93	0	0	0	0	0	0
4/7/2024 21:44	64202	KINZ_T1	70	93	23	0.49	0.65	0.16	0	0	0	0	0	0	0	0
4/7/2024 21:44	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:44	11804	FRAN_T1	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
4/7/2024 21:44	45003	LIME_2	1	1	0	3.6	4.1	0.5	0	0	1	1	0	1200	1200	0
4/7/2024 21:44	67401	WAKE_T2	0	24	24	0	0.15	0.15	-0.96	-0.96	0	0	0	0	0	0
4/7/2024 21:44	64201	KINZ_T1	53	94	41	0.41	0.54	0.13	0	0	0	0	0	0	0	0
4/7/2024 21:44	46506	LOHA_T1	0	1	1	0	0.8	0.8	-1.12	-1.2	0	0	0	0	0	0
4/7/2024 21:44	42802	SELI_T1	1	1	0	0.8	0.1	-0.7	-1.44	-1.45	0	0	0	0	0	0
4/7/2024 21:44	64203	KINZ_T1	517	739	222	0.35	0.59	0.24	-0.15	-0.09	0	0	0	0	0	0
4/7/2024 21:44	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:44	56802	BENV_T2	0	0	0	0	0	0	-3.11	-3.04	0	0	0	0	0	0
4/7/2024 21:44	59101	WALK_T2	0	0	0	0	0	0	0.72	0.87	0	0	0	0	0	0
4/7/2024 21:44	64204	KINZ_T1	127	381	254	0.32	0.4	0.08	0	0	0	0	0	0	0	0
4/7/2024 21:44	60803	BUCK_T1	1	6	5	0.1	0.17	0.07	-0.58	-0.57	1	1	0	600	600	0
4/7/2024 21:44	67501	WEWI_T1	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
4/7/2024 21:44	46004	BERW_T2	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
4/7/2024 21:45	55002	NEWP_T1	6	7	1	0.87	1.1	0.23	-0.32	-0.31	0	0	0	0	0	0
4/7/2024 21:45	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.67	0	0	0	0	0	0
4/7/2024 21:45	57401	SPAN_T1	0	1	1	0	0.2	0.2	-0.93	-0.98	1	1	0	600	600	0
4/7/2024 21:45	42201	SHEN_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
4/7/2024 21:45	56501	ROCK_T2	14	67	53	0.49	0.24	-0.25	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 21:45	42802	SELI_T1	0	3	3	0	0.1	0.1	-1.44	-1.45	0	0	0	0	0	0
4/7/2024 21:45	46203	DANV_T2	81	96	15	0.29	0.33	0.04	-2.44	-2.46	0	0	0	0	0	0
4/7/2024 21:45	45501	DERR_T2	0	0	0	0	0	0	-0.89	-0.88	2	2	0	1800	1800	0
4/7/2024 21:45	55001	NEWP_T1	4	30	26	0.1	0.21	0.11	0	0	0	0	0	0	0	0
4/7/2024 21:45	45402	WBLO_T2	2	2	0	0.75	0.9	0.15	-1.83	-1.86	1	1	0	900	900	0
4/7/2024 21:45	44301	BEAV_T2	5	10	5	0.64	0.58	-0.06	0	0	0	0	0	0	0	0
4/7/2024 21:45	64202	KINZ_T1	79	117	38	0.58	0.76	0.18	0.53	0.43	0	0	0	0	0	0
4/7/2024 21:45	46004	BERW_T2	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
4/7/2024 21:45	46801	HEPB_T2	2	2	0	0.2	0.3	0.1	0.51	0.5	0	0	0	0	0	0
4/7/2024 21:45	64203	KINZ_T1	645	808	163	0.49	0.82	0.33	-0.15	-0.09	0	0	0	0	0	0
4/7/2024 21:45	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:45	64204	KINZ_T1	247	549	302	0.31	0.49	0.18	0	0	0	0	0	0	0	0
4/7/2024 21:45	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:45	44302	BEAV_T2	219	364	145	0.54	0.65	0.11	0.28	0.27	0	0	0	0	0	0
4/7/2024 21:45	64301	LINC_T1	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
4/7/2024 21:45	10801	CHHI_T1	0	0	0	0	0	0	-1.69	-1.09	2	1	-1	1500	900	-600
4/7/2024 21:45	57403	SPAN_T1	0	6	6	0	0.13	0.13	-0.05	-0.05	0	0	0	0	0	0
4/7/2024 21:45	64201	KINZ_T1	78	128	50	0.48	0.64	0.16	0	0	0	0	0	0	0	0
4/7/2024 21:45	63201	MGTN_T2	0	0	0	0	0	0	0.33	0.3	2	2	0	1200	1200	0
4/7/2024 21:45	45702	LIND_T2	1	1	0	0.2	0.2	0	-0.6	-0.62	0	0	0	0	0	0
4/7/2024 21:45	67605	WARW_T1	12	15	3	0.33	0.47	0.14	-1.07	-1.09	0	0	0	0	0	0
4/7/2024 21:45	67401	WAKE_T2	10	49	39	0.12	0.18	0.06	-0.96	-0.96	0	0	0	0	0	0
4/7/2024 21:46	45303	WBER_T2	8	8	0	0.84	1.03	0.19	-0.46	-0.49	0	0	0	0	0	0
4/7/2024 21:46	55002	NEWP_T1	6	7	1	0.87	1.1	0.23	-0.32	-0.31	0	0	0	0	0	0
4/7/2024 21:46	64802	MONE_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
4/7/2024 21:46	43202	MVIL_T2	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
4/7/2024 21:46	53903	HALI_T2	2	2	0	1.25	1.5	0.25	-0.22	-0.22	0	0	0	0	0	0
4/7/2024 21:46	43201	MVIL_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
4/7/2024 21:46	58001	WCAR_T1	4	5	1	0.7	1.08	0.38	0	0	0	0	0	0	0	0
4/7/2024 21:46	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
4/7/2024 21:46	44302	BEAV_T2	219	364	145	0.54	0.65	0.11	0.28	0.27	0	0	0	0	0	0
4/7/2024 21:46	57303	MOAL_T2	1	1	0	7.3	7.2	-0.1	0	0	0	0	0	0	0	0
4/7/2024 21:46	55001	NEWP_T1	4	30	26	0.1	0.21	0.11	0	0	0	0	0	0	0	0
4/7/2024 21:46	57304	MOAL_T2	0	4	4	0	0.2	0.2	-0.53	-0.48	0	0	0	0	0	0
4/7/2024 21:46	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:46	45301	WBER_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/7/2024 21:46	42802	SELI_T1	0	3	3	0	0.1	0.1	-1.44	-1.45	0	0	0	0	0	0
4/7/2024 21:46	56501	ROCK_T2	14	67	53	0.49	0.24	-0.25	-0.03	-0.03	0	0	0	0	0	0
4/7/2024 21:46	44301	BEAV_T2	5	10	5	0.64	0.58	-0.06	0	0	0	0	0	0	0	0
4/7/2024 21:46	53901	HALI_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/7/2024 21:46	20403	ASHF_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
4/7/2024 21:46	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
4/7/2024 21:46	58003	WCAR_T1	1	1	0	1.1	1.4	0.3	-0.18	-0.17	1	1	0	600	600	0
4/7/2024 21:46	52501	PROG_T1	0	0	0	0	0	0	0.3	0.29	1	1	0	300	300	0
4/7/2024 21:46	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:47	45402	WBLO_T2	2	2	0	0.75	0.9	0.15	-1.83	-1.86	1	1	0	900	900	0
4/7/2024 21:47	56501	ROCK_T2	14	67	53	0.49	0.24	-0.25	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 21:47	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.67	0	0	0	0	0	0
4/7/2024 21:47	42802	SELI_T1	0	3	3	0	0.1	0.1	-2.87	-2.89	0	0	0	0	0	0
4/7/2024 21:47	57401	SPAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/7/2024 21:47	46801	HEPB_T2	2	2	0	0.2	0.3	0.1	0.51	0.5	0	0	0	0	0	0
4/7/2024 21:47	57403	SPAN_T1	0	6	6	0	0.13	0.13	-0.05	-0.05	0	0	0	0	0	0
4/7/2024 21:47	12701	MACU_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
4/7/2024 21:47	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:47	58401	MORO_T1	0	0	0	0	0	0	-1.33	-1.33	1	1	0	600	600	0
4/7/2024 21:47	56801	BENV_T1	13	15	2	1.41	1.32	-0.09	-1.72	-1.7	2	2	0	1200	1200	0
4/7/2024 21:47	67201	TEHI_T1	0	0	0	0	0	0	-0.09	-0.17	0	0	0	0	0	0
4/7/2024 21:48	60801	BUCK_T1	1	41	40	0.1	0.22	0.12	-0.25	-0.26	0	0	0	0	0	0
4/7/2024 21:48	43202	MVIL_T2	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
4/7/2024 21:48	14404	SSLA_T1	1	1	0	4.2	4.7	0.5	0	0	0	0	0	0	0	0
4/7/2024 21:48	66703	STRA_T1	5	7	2	0.24	0.51	0.27	-0.52	-0.51	0	0	0	0	0	0
4/7/2024 21:48	64203	KINZ_T1	645	808	163	0.49	0.82	0.33	-0.15	-0.09	0	0	0	0	0	0
4/7/2024 21:48	60803	BUCK_T1	5	14	9	0.12	0.16	0.04	0	0	0	0	0	0	0	0
4/7/2024 21:48	64204	KINZ_T1	247	549	302	0.31	0.49	0.18	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/7/2024 21:48	14403	SSLA_T1	0	0	0	0	0	0	0.62	0.58	0	0	0	0	0	0
4/7/2024 21:48	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
4/7/2024 21:48	53903	HALI_T2	2	2	0	1.25	1.5	0.25	-0.22	-0.22	0	0	0	0	0	0
4/7/2024 21:48	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:48	64202	KINZ_T1	79	117	38	0.58	0.76	0.18	0	0	0	0	0	0	0	0
4/7/2024 21:48	53901	HALI_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/7/2024 21:48	42802	SELI_T1	0	3	3	0	0.1	0.1	-4.31	-4.34	0	0	0	0	0	0
4/7/2024 21:48	64201	KINZ_T1	78	128	50	0.48	0.64	0.16	0	0	0	0	0	0	0	0
4/7/2024 21:49	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:49	42802	SELI_T1	0	3	3	0	0.1	0.1	-1.44	-1.45	0	0	0	0	0	0
4/7/2024 21:49	67401	WAKE_T2	10	49	39	0.12	0.18	0.06	-0.96	-0.96	0	0	0	0	0	0
4/7/2024 21:49	67901	WNHO_T2	72	127	55	0.28	0.35	0.07	-0.69	-0.67	0	0	0	0	0	0
4/7/2024 21:49	56802	BENV_T2	0	1	1	0	0.3	0.3	-3.11	-3.04	0	0	0	0	0	0
4/7/2024 21:49	42902	MIDD_T2	150	206	56	0.39	0.56	0.17	-2.04	-2.09	0	0	0	0	0	0
4/7/2024 21:49	42903	MIDD_T2	18	80	62	0.46	0.33	-0.13	0	0	0	0	0	0	0	0
4/7/2024 21:49	52402	GRPA_T2	1	2	1	4.7	2.55	-2.15	-0.9	-0.93	0	0	0	0	0	0
4/7/2024 21:49	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:49	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
4/7/2024 21:49	45001	LIME_2	0	24	24	0	0.21	0.21	0	0	0	0	0	0	0	0
4/7/2024 21:49	42901	MIDD_T2	234	407	173	0.37	0.47	0.1	0	0	0	0	0	0	0	0
4/7/2024 21:49	45501	DERR_T2	0	0	0	0	0	0	-0.89	-0.88	2	2	0	1800	1800	0
4/7/2024 21:49	45003	LIME_2	1	1	0	4.1	4	-0.1	0	0	1	1	0	1200	1200	0
4/7/2024 21:49	64305	LINC_T1	0	0	0	0	0	0	-0.74	-0.76	3	3	0	0	0	0
4/7/2024 21:49	56801	BENV_T1	13	15	2	1.41	1.32	-0.09	-0.86	-0.85	1	1	0	600	600	0
4/7/2024 21:49	59101	WALK_T2	0	0	0	0	0	0	0.72	0.87	0	0	0	0	0	0
4/7/2024 21:50	56801	BENV_T1	13	15	2	1.41	1.32	-0.09	-0.86	-0.85	1	1	0	600	600	0
4/7/2024 21:50	46506	LOHA_T1	1	1	0	0.6	0.8	0.2	-0.56	-0.6	0	0	0	0	0	0
4/7/2024 21:50	45501	DERR_T2	0	0	0	0	0	0	-0.89	-0.88	2	2	0	1800	1800	0
4/7/2024 21:50	58402	MORO_T1	0	0	0	0	0	0	-0.62	-0.63	2	2	0	1500	1500	0
4/7/2024 21:50	60701	BREC_T1	0	0	0	0	0	0	-0.6	-0.61	1	1	0	600	600	0
4/7/2024 21:50	56802	BENV_T2	0	1	1	0	0.3	0.3	-1.55	-1.52	0	0	0	0	0	0
4/7/2024 21:50	46504	LOHA_T1	2	2	0	0.8	1.45	0.65	0	0	0	0	0	0	0	0
4/7/2024 21:50	58401	MORO_T1	0	0	0	0	0	0	-1.33	-1.33	1	1	0	600	600	0
4/7/2024 21:51	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:51	53501	EVIL_T2	3	5	2	0.27	0.64	0.37	-0.86	-0.87	0	0	0	0	0	0
4/7/2024 21:51	46203	DANV_T2	81	96	15	0.29	0.33	0.04	-2.44	-2.46	0	0	0	0	0	0
4/7/2024 21:51	46504	LOHA_T1	2	2	0	0.8	1.45	0.65	0	0	0	0	0	0	0	0
4/7/2024 21:51	42802	SELI_T1	0	3	3	0	0.1	0.1	-2.87	-2.89	0	0	0	0	0	0
4/7/2024 21:51	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/7/2024 21:51	46506	LOHA_T1	1	1	0	0.6	0.8	0.2	-0.56	-0.6	0	0	0	0	0	0
4/7/2024 21:52	56801	BENV_T1	13	15	2	1.41	1.32	-0.09	-1.72	-1.7	2	2	0	1200	1200	0
4/7/2024 21:53	42903	MIDD_T2	18	80	62	0.46	0.33	-0.13	0	0	0	0	0	0	0	0
4/7/2024 21:53	42902	MIDD_T2	150	206	56	0.39	0.56	0.17	-0.7	-0.68	0	0	0	0	0	0
4/7/2024 21:53	44302	BEAV_T2	219	364	145	0.54	0.65	0.11	0.27	0.25	0	0	0	0	0	0
4/7/2024 21:53	44301	BEAV_T2	5	10	5	0.64	0.58	-0.06	0	0	0	0	0	0	0	0
4/7/2024 21:53	41902	REED_T1	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
4/7/2024 21:53	42901	MIDD_T2	234	407	173	0.37	0.47	0.1	0	0	0	0	0	0	0	0
4/7/2024 21:54	59101	WALK_T2	0	0	0	0	0	0	0.87	0.99	0	0	0	0	0	0
4/7/2024 21:54	40101	HUNT_T2	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
4/7/2024 21:54	56501	ROCK_T2	14	67	53	0.49	0.24	-0.25	-0.01	-0.01	0	0	0	0	0	0
4/7/2024 21:54	41902	REED_T1	0	0	0	0	0	0	1.63	1.61	0	0	0	0	0	0
4/7/2024 21:58	44301	BEAV_T2	5	10	5	0.64	0.58	-0.06	0	0	0	0	0	0	0	0
4/7/2024 21:58	44302	BEAV_T2	219	364	145	0.54	0.65	0.11	0.27	0.25	0	0	0	0	0	0
4/7/2024 22:04	11801	FRAN_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
4/7/2024 22:10	52004	LING_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
4/7/2024 22:10	52006	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/7/2024 22:10	52002	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/7/2024 22:58	57403	SPAN_T1	6	9	3	0.13	0.13	0	0	0	0	0	0	0	0	0
4/7/2024 22:58	57401	SPAN_T1	0	0	0	0	0	0	-1.02	-0.98	1	1	0	600	600	0
4/7/2024 23:09	64702	LITI_T2	0	0	0	0	0	0	-0.85	-0.89	0	0	0	0	0	0
4/8/2024 7:54	46206	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 7:54	46203	DANV_T2	15	98	83	0.18	0.39	0.21	-4.64	-1.98	0	0	0	0	0	0
4/8/2024 8:00	40101	HUNT_T2	60	46	-14	0.46	0.55	0.09	-0.14	-0.1	0	0	0	0	0	0
4/8/2024 8:08	56802	BENV_T2	1	19	18	0.1	0.17	0.07	-1.34	-0.71	0	0	0	0	0	0
4/8/2024 8:09	56802	BENV_T2	1	19	18	0.1	0.17	0.07	-1.34	-0.71	0	0	0	0	0	0
4/8/2024 8:13	45501	DERR_T2	0	0	0	0	0	0	0.69	0.62	2	2	0	1800	1800	0
4/8/2024 8:13	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 8:21	67605	WARW_T1	2	12	10	0.3	0.53	0.23	-0.85	-0.82	0	0	0	0	0	0
4/8/2024 8:26	10705	CATA_T2	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
4/8/2024 8:26	67605	WARW_T1	2	12	10	0.3	0.53	0.23	-0.82	-1.03	0	0	0	0	0	0
4/8/2024 8:27	24902	WHHA_T1	142	106	-36	0.94	0.97	0.03	0	0	0	0	0	0	0	0
4/8/2024 8:28	64702	LITI_T2	0	0	0	0	0	0	-0.67	-0.73	0	0	0	0	0	0
4/8/2024 8:28	40101	HUNT_T2	39	85	46	0.5	0.49	-0.01	-0.1	-0.13	0	0	0	0	0	0
4/8/2024 8:30	55002	NEWP_T1	6	8	2	1.17	1.35	0.18	-0.19	-0.2	0	0	0	0	0	0
4/8/2024 8:30	55001	NEWP_T1	1	30	29	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
4/8/2024 8:31	64702	LITI_T2	0	0	0	0	0	0	-0.67	-0.73	0	0	0	0	0	0
4/8/2024 8:31	40101	HUNT_T2	33	110	77	0.54	0.42	-0.12	-0.1	-0.13	0	0	0	0	0	0
4/8/2024 8:32	55001	NEWP_T1	1	30	29	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
4/8/2024 8:32	55002	NEWP_T1	6	8	2	1.17	1.35	0.18	-0.38	-0.4	0	0	0	0	0	0
4/8/2024 8:33	64702	LITI_T2	0	0	0	0	0	0	-0.67	-0.73	0	0	0	0	0	0
4/8/2024 8:36	67605	WARW_T1	9	26	17	0.29	0.43	0.14	-0.82	-1.03	0	0	0	0	0	0
4/8/2024 8:41	67605	WARW_T1	9	26	17	0.29	0.43	0.14	-1.03	-1.04	0	0	0	0	0	0
4/8/2024 8:46	58402	MORO_T1	0	0	0	0	0	0	-1.01	-0.99	3	3	0	2400	2400	0
4/8/2024 8:48	58402	MORO_T1	0	0	0	0	0	0	-1.01	-0.99	3	3	0	2400	2400	0
4/8/2024 8:51	67402	WAKE_T2	0	0	0	0	0	0	0.99	1.06	0	0	0	0	0	0
4/8/2024 8:51	67605	WARW_T1	12	30	18	0.53	0.47	-0.06	-1.03	-1.04	0	0	0	0	0	0
4/8/2024 8:53	26001	WDAM_T1	1	0	-1	0.1	0	-0.1	-0.72	-0.74	0	0	0	0	0	0
4/8/2024 8:56	67605	WARW_T1	12	30	18	0.53	0.47	-0.06	-1.04	-1.02	0	0	0	0	0	0
4/8/2024 9:02	54203	PENN_T1	377	56	-321	0.41	0.53	0.12	0	0	0	0	0	0	0	0
4/8/2024 9:02	54201	PENN_T1	344	87	-257	0.6	0.32	-0.28	-1.26	0.1	0	0	0	0	0	0
4/8/2024 9:02	60603	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 9:02	54205	PENN_T1	123	42	-81	0.36	0.12	-0.24	0	0	0	0	0	0	0	0
4/8/2024 9:03	54201	PENN_T1	344	87	-257	0.6	0.32	-0.28	-1.26	0.1	0	0	0	0	0	0
4/8/2024 9:03	54205	PENN_T1	123	42	-81	0.36	0.12	-0.24	0	0	0	0	0	0	0	0
4/8/2024 9:03	54203	PENN_T1	377	56	-321	0.41	0.53	0.12	0	0	0	0	0	0	0	0
4/8/2024 9:06	67605	WARW_T1	26	30	4	0.43	0.48	0.05	-1.04	-1.02	0	0	0	0	0	0
4/8/2024 9:07	17002	RIRO_T2	50	166	116	0.22	0.23	0.01	0.64	0.65	0	0	0	0	0	0
4/8/2024 9:07	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 9:09	59101	WALK_T2	41	52	11	0.3	0.43	0.13	0.15	0.15	0	0	0	0	0	0
4/8/2024 9:11	67605	WARW_T1	26	30	4	0.43	0.48	0.05	-1.02	-1.03	0	0	0	0	0	0
4/8/2024 9:11	56802	BENV_T2	2	5	3	0.35	0.56	0.21	-1.5	-1.3	0	0	0	0	0	0
4/8/2024 9:12	10801	CHHI_T1	0	4	4	0	0.3	0.3	-0.79	-0.79	1	1	0	900	900	0
4/8/2024 9:12	56802	BENV_T2	2	5	3	0.35	0.56	0.21	-0.75	-0.65	0	0	0	0	0	0
4/8/2024 9:18	17002	RIRO_T2	78	206	128	0.23	0.26	0.03	0.65	0.62	0	0	0	0	0	0
4/8/2024 9:19	67001	STHI_T2	113	22	-91	0.12	0.23	0.11	0	0	0	0	0	0	0	0
4/8/2024 9:19	67002	STHI_T2	39	26	-13	0.2	0.31	0.11	0.57	0.59	0	0	0	0	0	0
4/8/2024 9:20	67002	STHI_T2	39	26	-13	0.2	0.31	0.11	1.7	1.77	0	0	0	0	0	0
4/8/2024 9:20	67001	STHI_T2	113	22	-91	0.12	0.23	0.11	0	0	0	0	0	0	0	0
4/8/2024 9:21	67605	WARW_T1	29	44	15	0.46	0.48	0.02	-1.02	-1.03	0	0	0	0	0	0
4/8/2024 9:22	67001	STHI_T2	113	22	-91	0.12	0.23	0.11	0	0	0	0	0	0	0	0
4/8/2024 9:22	67002	STHI_T2	39	26	-13	0.2	0.31	0.11	0.57	0.59	0	0	0	0	0	0
4/8/2024 9:22	67402	WAKE_T2	0	0	0	0	0	0	1.03	0.88	0	0	0	0	0	0
4/8/2024 9:22	67401	WAKE_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
4/8/2024 9:22	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 9:23	67002	STHI_T2	39	26	-13	0.2	0.31	0.11	1.18	1.17	0	0	0	0	0	0
4/8/2024 9:23	67001	STHI_T2	113	22	-91	0.12	0.23	0.11	0	0	0	0	0	0	0	0
4/8/2024 9:26	67605	WARW_T1	29	44	15	0.46	0.48	0.02	-1.03	-1.04	0	0	0	0	0	0
4/8/2024 9:26	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 9:26	52402	GRPA_T2	4	5	1	1.1	1.18	0.08	-0.85	-0.83	0	0	0	0	0	0
4/8/2024 9:26	52403	GRPA_T2	0	6	6	0	0.42	0.42	0	0	0	0	0	0	0	0
4/8/2024 9:28	41802	GOCI_T2	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
4/8/2024 9:28	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 9:28	52403	GRPA_T2	0	6	6	0	0.42	0.42	0	0	0	0	0	0	0	0
4/8/2024 9:28	41801	GOCI_T2	41	173	132	0.27	0.38	0.11	0	0	0	0	0	0	0	0
4/8/2024 9:28	52402	GRPA_T2	4	5	1	1.1	1.18	0.08	-0.85	-0.83	0	0	0	0	0	0
4/8/2024 9:30	41802	GOCI_T2	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
4/8/2024 9:30	41801	GOCI_T2	31	173	142	0.19	0.38	0.19	0	0	0	0	0	0	0	0
4/8/2024 9:33	56501	ROCK_T2	9	9	0	0.49	0.49	0	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 9:34	42201	SHEN_T2	0	0	0	0	0	0	-0.19	-0.2	1	1	0	600	600	0
4/8/2024 9:35	43202	MVIL_T2	65	108	43	0.47	0.65	0.18	-0.55	-0.61	0	0	0	0	0	0
4/8/2024 9:35	56501	ROCK_T2	9	9	0	0.49	0.49	0	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 9:35	13901	SEID_T1	0	0	0	0	0	0	0.55	0.49	0	0	0	0	0	0
4/8/2024 9:36	56501	ROCK_T2	9	9	0	0.49	0.49	0	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 9:36	16302	ALPA_T2	7	0	-7	0.23	0	-0.23	-0.68	0.68	0	0	0	0	0	0
4/8/2024 9:36	67605	WARW_T1	26	46	20	0.42	0.51	0.09	-1.03	-1.04	0	0	0	0	0	0
4/8/2024 9:36	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 9:37	14401	SSLA_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/8/2024 9:37	14403	SSLA_T1	2	1	-1	0.1	0.2	0.1	0.72	0.7	0	0	0	0	0	0
4/8/2024 9:37	14404	SSLA_T1	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
4/8/2024 9:38	14404	SSLA_T1	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
4/8/2024 9:38	14401	SSLA_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/8/2024 9:38	56501	ROCK_T2	9	9	0	0.49	0.49	0	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 9:38	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 9:38	14403	SSLA_T1	2	1	-1	0.1	0.2	0.1	0.7	0.73	0	0	0	0	0	0
4/8/2024 9:38	67605	WARW_T1	26	46	20	0.42	0.51	0.09	-1.04	-1.08	0	0	0	0	0	0
4/8/2024 9:39	16302	ALPA_T2	7	0	-7	0.23	0	-0.23	0.68	0.7	0	0	0	0	0	0
4/8/2024 9:40	16302	ALPA_T2	7	0	-7	0.23	0	-0.23	0.68	0.7	0	0	0	0	0	0
4/8/2024 9:41	17401	FOHI_T1	1	1	0	0.1	0.5	0.4	-1.04	-1.01	0	0	0	0	0	0
4/8/2024 9:41	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 9:41	67605	WARW_T1	26	46	20	0.42	0.51	0.09	-1.04	-1.08	0	0	0	0	0	0
4/8/2024 9:43	17401	FOHI_T1	1	1	0	0.1	0.5	0.4	-1.04	-1.01	0	0	0	0	0	0
4/8/2024 9:44	52403	GRPA_T2	0	6	6	0	0.42	0.42	0.04	0	0	0	0	0	0	0
4/8/2024 9:44	52401	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 9:44	63602	LETO_T1	0	0	0	0	0	0	-0.55	-0.5	0	0	0	0	0	0
4/8/2024 9:44	52402	GRPA_T2	4	9	5	1.18	0.94	-0.24	0	0	0	0	0	0	0	0
4/8/2024 9:48	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
4/8/2024 9:48	56501	ROCK_T2	9	9	0	0.48	0.5	0.02	0	0	0	0	0	0	0	0
4/8/2024 9:49	56501	ROCK_T2	9	9	0	0.48	0.5	0.02	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 9:49	43202	MVIL_T2	90	135	45	0.55	0.6	0.05	-0.61	-0.63	0	0	0	0	0	0
4/8/2024 9:49	46302	ROHR_T1	3	29	26	2.73	0.5	-2.23	0.34	0.35	0	0	0	0	0	0
4/8/2024 9:49	46301	ROHR_T1	87	257	170	0.23	0.39	0.16	0	0	0	0	0	0	0	0
4/8/2024 9:51	67603	WARW_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/8/2024 9:51	67605	WARW_T1	43	50	7	0.48	0.51	0.03	-1.04	-1.08	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/8/2024 9:51	67502	WEWI_T2	3	7	4	0.5	0.41	-0.09	-1.16	-1.21	1	1	0	900	900	0
4/8/2024 9:51	13901	SEID_T1	0	0	0	0	0	0	0.49	0.44	0	0	0	0	0	0
4/8/2024 9:51	13902	SEID_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/8/2024 9:51	13905	SEID_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 9:52	66504	SMAN_T2	3	4	1	0.17	0.28	0.11	-0.84	-0.84	0	0	0	0	0	0
4/8/2024 9:52	46001	BERW_T1	0	0	0	0	0	0	0.98	0.97	0	0	0	0	0	0
4/8/2024 9:52	66505	SMAN_T2	3	3	0	0.5	0.13	-0.37	0	0	0	0	0	0	0	0
4/8/2024 9:52	66501	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/8/2024 9:52	46005	BERW_T1	1	2	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
4/8/2024 9:52	66502	SMAN_T2	8	10	2	0.38	0.42	0.04	0	0	0	0	0	0	0	0
4/8/2024 9:52	66503	SMAN_T2	6	7	1	0.13	0.11	-0.02	0	0	0	0	0	0	0	0
4/8/2024 9:52	67502	WEWI_T2	3	7	4	0.5	0.41	-0.09	-1.16	-1.21	1	1	0	900	900	0
4/8/2024 9:53	67502	WEWI_T2	3	7	4	0.5	0.41	-0.09	-2.42	-2.3	2	2	0	1800	1800	0
4/8/2024 9:54	46005	BERW_T1	1	2	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
4/8/2024 9:54	20403	ASHF_T2	8	7	-1	0.48	0.4	-0.08	0.51	0.64	0	0	0	0	0	0
4/8/2024 9:54	56501	ROCK_T2	9	9	0	0.48	0.5	0.02	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 9:54	20402	ASHF_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/8/2024 9:54	46001	BERW_T1	0	0	0	0	0	0	0.97	1.02	0	0	0	0	0	0
4/8/2024 9:54	10801	CHHI_T1	4	6	2	0.55	0.68	0.13	-0.86	-0.89	1	1	0	900	900	0
4/8/2024 9:54	67401	WAKE_T2	3	3	0	0.27	0.43	0.16	-0.8	-0.84	0	0	0	0	0	0
4/8/2024 9:54	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 9:55	67605	WARW_T1	43	50	7	0.48	0.51	0.03	-1.08	-1.08	0	0	0	0	0	0
4/8/2024 9:55	20402	ASHF_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/8/2024 9:55	67603	WARW_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/8/2024 9:55	45501	DERR_T2	0	1	1	0	0.3	0.3	0.54	0.61	2	2	0	1800	1800	0
4/8/2024 9:55	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 9:55	20403	ASHF_T2	8	7	-1	0.48	0.4	-0.08	0.51	0.64	0	0	0	0	0	0
4/8/2024 9:56	60803	BUCK_T1	2	5	3	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/8/2024 9:56	67605	WARW_T1	43	50	7	0.48	0.51	0.03	-1.08	-1.08	0	0	0	0	0	0
4/8/2024 9:56	60801	BUCK_T1	0	0	0	0	0	0	0.21	0.26	0	0	0	0	0	0
4/8/2024 9:56	67603	WARW_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/8/2024 9:57	46005	BERW_T1	1	2	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
4/8/2024 9:57	46001	BERW_T1	0	0	0	0	0	0	0.97	1.02	0	0	0	0	0	0
4/8/2024 9:57	40902	JESH_T1	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
4/8/2024 9:58	46005	BERW_T1	1	2	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
4/8/2024 9:58	46001	BERW_T1	0	0	0	0	0	0	0.97	1.02	0	0	0	0	0	0
4/8/2024 9:58	45501	DERR_T2	0	1	1	0	0.3	0.3	0.54	0.61	2	2	0	1800	1800	0
4/8/2024 9:58	40101	HUNT_T2	0	1	1	0	0.2	0.2	-0.36	-0.3	0	0	0	0	0	0
4/8/2024 9:59	45001	LIME_2	12	1	-11	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
4/8/2024 9:59	45003	LIME_2	1	1	0	4.4	4.6	0.2	0	0	2	2	0	2400	2400	0
4/8/2024 9:59	41504	FAIR_T2	0	0	0	0	0	0	-0.98	-0.95	0	0	0	0	0	0
4/8/2024 10:00	45501	DERR_T2	1	0	-1	0.3	0	-0.3	1.07	1.22	4	4	0	3600	3600	0
4/8/2024 10:00	12501	MITR_T2	1	1	0	4.1	5.3	1.2	0	0	0	0	0	0	0	0
4/8/2024 10:00	14403	SSLA_T1	1	2	1	0.2	0.4	0.2	1.45	1.32	0	0	0	0	0	0
4/8/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	0.21	0.26	0	0	0	0	0	0
4/8/2024 10:00	29402	BELT_T1	3	1	-2	2.87	7.4	4.53	0	0	0	0	0	0	0	0
4/8/2024 10:00	12505	MITR_T2	1	2	1	0.6	0.5	-0.1	0.82	0.94	0	0	0	0	0	0
4/8/2024 10:00	54202	PENN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/8/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-0.52	-0.41	1	1	0	1200	1200	0
4/8/2024 10:00	57304	MOAL_T2	5	33	28	0.18	0.25	0.07	-1.17	-0.97	0	0	0	0	0	0
4/8/2024 10:00	63804	HEMP_T1	1	2	1	6.3	3.15	-3.15	0	0	0	0	0	0	0	0
4/8/2024 10:00	42902	MIDD_T2	7	4	-3	0.33	0.53	0.2	0	0	0	0	0	0	0	0
4/8/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
4/8/2024 10:00	45602	WOOL_T1	2	2	0	0.55	0.55	0	0.49	0.5	0	0	0	0	0	0
4/8/2024 10:00	42301	MOWR_T2	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
4/8/2024 10:00	62605	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 10:00	14404	SSLA_T1	1	4	3	5.1	1.38	-3.72	0	0	0	0	0	0	0	0
4/8/2024 10:00	25603	ARRO_T1	1	1	0	0.3	0.6	0.3	-0.17	-0.16	0	0	0	0	0	0
4/8/2024 10:00	57303	MOAL_T2	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
4/8/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-0.78	-0.77	1	1	0	900	900	0
4/8/2024 10:00	40505	CRES_T1	1	5	4	0.6	0.54	-0.06	0.46	0.46	0	0	0	0	0	0
4/8/2024 10:00	54206	PENN_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
4/8/2024 10:00	40502	CRES_T2	18	31	13	0.23	0.31	0.08	-0.23	-0.24	0	0	0	0	0	0
4/8/2024 10:00	60803	BUCK_T1	2	5	3	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
4/8/2024 10:00	46203	DANV_T2	4	3	-1	0.13	0.3	0.17	0	0	0	0	0	0	0	0
4/8/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	-0.2	-0.17	1	1	0	600	600	0
4/8/2024 10:00	63803	HEMP_T1	1	31	30	0.4	0.26	-0.14	0	0	0	0	0	0	0	0
4/8/2024 10:00	29401	BELT_T1	0	0	0	0	0	0	0	0	3	0	-3	2700	0	-2700
4/8/2024 10:00	13902	SEID_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
4/8/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	-0.32	-0.24	0	0	0	0	0	0
4/8/2024 10:00	46206	DANV_T2	0	0	0	0	0	0	2.09	1.97	1	1	0	1200	1200	0
4/8/2024 10:00	67603	WARW_T1	1	2	1	0.2	0.45	0.25	-0.02	0	0	0	0	0	0	0
4/8/2024 10:00	53901	HALI_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/8/2024 10:00	67605	WARW_T1	43	48	5	0.51	0.5	-0.01	0	0	0	0	0	0	0	0
4/8/2024 10:00	13905	SEID_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/8/2024 10:00	60101	COCA_T1	3	2	-1	0.27	0.15	-0.12	0.3	0.38	0	0	0	0	0	0
4/8/2024 10:00	24104	EHAZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/8/2024 10:00	65003	NEFF_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
4/8/2024 10:00	24105	EHAZ_T1	4	4	0	6.1	6.05	-0.05	-0.65	-0.7	1	1	0	1200	1200	0
4/8/2024 10:00	53903	HALI_T2	2	7	5	1.25	0.64	-0.61	-0.13	-0.15	0	0	0	0	0	0
4/8/2024 10:00	40101	HUNT_T2	1	1	0	0.2	0.3	0.1	-1.09	-0.9	0	0	0	0	0	0
4/8/2024 10:00	14401	SSLA_T1	1	3	2	0.9	1.2	0.3	0	0	0	0	0	0	0	0
4/8/2024 10:00	57403	SPAN_T1	35	68	33	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
4/8/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	0.24	0.21	1	1	0	600	600	0
4/8/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	0.37	0.36	1	1	0	600	600	0
4/8/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
4/8/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	0.05	0.08	1	1	0	1200	1200	0
4/8/2024 10:00	40501	CRES_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/8/2024 10:00	10801	CHHI_T1	4	8	4	0.63	0.68	0.05	-1.72	-1.79	2	2	0	1800	1800	0
4/8/2024 10:00	40504	CRES_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 10:00	57401	SPAN_T1	4	31	27	0.63	0.39	-0.24	-2.48	-2.51	2	2	0	1200	1200	0
4/8/2024 10:00	43202	MVIL_T2	102	139	37	0.66	0.58	-0.08	0	0	0	0	0	0	0	0
4/8/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
4/8/2024 10:00	13901	SEID_T1	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
4/8/2024 10:00	57306	MOAL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 10:00	66302	MCGO_T2	1	0	-1	0.5	0	-0.5	-0.77	-0.77	1	1	0	600	600	0
4/8/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.04	-0.1	2	2	0	1500	1500	0
4/8/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	2.1	2	0	0	0	0	0	0
4/8/2024 10:00	43201	MVIL_T2	0	0	0	0	0	0	-0.38	-0.36	0	0	0	0	0	0
4/8/2024 10:00	24101	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.09	-0.13	0	0	0	0	0	0
4/8/2024 10:00	67401	WAKE_T2	3	3	0	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
4/8/2024 10:00	65004	NEFF_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/8/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	-0.25	-0.17	0	0	0	0	0	0
4/8/2024 10:00	56501	ROCK_T2	9	13	4	0.4	0.51	0.11	-0.02	-0.02	0	0	0	0	0	0
4/8/2024 10:00	42903	MIDD_T2	2	2	0	1	0.8	-0.2	1.03	1.27	0	0	0	0	0	0
4/8/2024 10:00	12502	MITR_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
4/8/2024 10:00	63802	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 10:00	62607	ENGL_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 10:00	41902	REED_T1	2	2	0	0.3	0.4	0.1	3.35	3.34	0	0	0	0	0	0
4/8/2024 10:00	41901	REED_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/8/2024 10:00	65005	NEFF_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/8/2024 10:00	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/8/2024 10:00	63801	HEMP_T1	0	8	8	0	0.23	0.23	0.14	0.7	0	0	0	0	0	0
4/8/2024 10:00	53902	HALI_T2	1	3	2	5.6	2.27	-3.33	0	0	0	0	0	0	0	0
4/8/2024 10:00	46002	BERW_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/8/2024 10:00	66303	MCGO_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/8/2024 10:00	24102	EHAZ_T1	3	1	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 10:00	56504	ROCK_T2	0	3	3	0	0.83	0.83	83.96	83.96	0	0	0	0	0	0
4/8/2024 10:01	57401	SPAN_T1	4	31	27	0.63	0.39	-0.24	-1.24	-1.25	1	1	0	600	600	0
4/8/2024 10:01	57403	SPAN_T1	35	68	33	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
4/8/2024 10:04	57401	SPAN_T1	4	31	27	0.63	0.39	-0.24	-1.24	-1.25	1	1	0	600	600	0
4/8/2024 10:04	57403	SPAN_T1	35	68	33	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
4/8/2024 10:06	57401	SPAN_T1	4	31	27	0.63	0.39	-0.24	-1.24	-1.25	1	1	0	600	600	0
4/8/2024 10:06	45902	AUBU_T1	1	1	0	1	1.5	0.5	-0.5	-0.47	1	1	0	600	600	0
4/8/2024 10:06	48302	ORWI_T2	2	2	0	1.7	1.8	0.1	0.03	0.04	0	0	0	0	0	0
4/8/2024 10:06	56504	ROCK_T2	0	3	3	0	0.83	0.83	0	0	0	0	0	0	0	0
4/8/2024 10:06	56501	ROCK_T2	9	13	4	0.4	0.51	0.11	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 10:06	60803	BUCK_T1	2	5	3	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
4/8/2024 10:06	58803	COCO_T1	1	1	0	2.1	2.4	0.3	0	0	0	0	0	0	0	0
4/8/2024 10:06	60801	BUCK_T1	0	0	0	0	0	0	0.21	0.26	0	0	0	0	0	0
4/8/2024 10:06	48303	ORWI_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/8/2024 10:06	57403	SPAN_T1	35	68	33	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
4/8/2024 10:07	52001	LING_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
4/8/2024 10:07	57101	SPHI_T2	6	6	0	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
4/8/2024 10:07	57103	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 10:07	53801	MBRG_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
4/8/2024 10:07	59101	WALK_T2	55	2	-53	0.4	0.25	-0.15	0.08	0.18	0	0	0	0	0	0
4/8/2024 10:07	57104	SPHI_T2	0	6	6	0	0.58	0.58	-1.15	-1.14	0	0	0	0	0	0
4/8/2024 10:07	57106	SPHI_T2	3	6	3	1.77	1.07	-0.7	0	0	0	0	0	0	0	0
4/8/2024 10:07	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 10:07	53802	MBRG_T2	0	0	0	0	0	0	0.97	0.72	0	0	0	0	0	0
4/8/2024 10:07	53803	MBRG_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/8/2024 10:07	40201	BEGA_T2	1	3	2	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
4/8/2024 10:08	66501	SMAN_T2	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
4/8/2024 10:08	67401	WAKE_T2	3	3	0	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
4/8/2024 10:08	67402	WAKE_T2	0	0	0	0	0	0	1	1	0	0	0	0	0	0
4/8/2024 10:08	46005	BERW_T1	2	3	1	0.55	0.57	0.02	0	0	0	0	0	0	0	0
4/8/2024 10:08	60803	BUCK_T1	2	5	3	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
4/8/2024 10:08	66502	SMAN_T2	10	9	-1	0.42	0.3	-0.12	0	0	0	0	0	0	0	0
4/8/2024 10:08	66504	SMAN_T2	4	1	-3	0.28	0.2	-0.08	-0.79	-0.82	0	0	0	0	0	0
4/8/2024 10:08	60801	BUCK_T1	0	0	0	0	0	0	0.26	0.21	0	0	0	0	0	0
4/8/2024 10:08	59101	WALK_T2	55	2	-53	0.4	0.25	-0.15	0.18	0.13	0	0	0	0	0	0
4/8/2024 10:08	46001	BERW_T1	0	0	0	0	0	0	1.02	0.92	0	0	0	0	0	0
4/8/2024 10:08	66505	SMAN_T2	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/8/2024 10:08	45602	WOOL_T1	2	2	0	0.55	0.55	0	0.5	0.48	0	0	0	0	0	0
4/8/2024 10:08	66503	SMAN_T2	6	7	1	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
4/8/2024 10:08	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 10:08	40101	HUNT_T2	1	1	0	0.2	0.3	0.1	-0.3	-0.32	0	0	0	0	0	0
4/8/2024 10:09	67603	WARW_T1	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/8/2024 10:09	56802	BENV_T2	2	11	9	0.45	0.39	-0.06	-1.85	-2	0	0	0	0	0	0
4/8/2024 10:09	67605	WARW_T1	43	48	5	0.51	0.5	-0.01	-1.08	-1.06	0	0	0	0	0	0
4/8/2024 10:09	59101	WALK_T2	55	2	-53	0.4	0.25	-0.15	0.18	0.13	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/8/2024 10:09	44301	BEAV_T2	1	1	0	1.4	0.7	-0.7	0.28	0.3	2	2	0	1500	1500	0
4/8/2024 10:09	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 10:10	67603	WARW_T1	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/8/2024 10:10	67605	WARW_T1	43	48	5	0.51	0.5	-0.01	-2.15	-2.12	0	0	0	0	0	0
4/8/2024 10:10	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 10:10	56802	BENV_T2	2	11	9	0.45	0.39	-0.06	-3.09	-3.34	0	0	0	0	0	0
4/8/2024 10:10	10801	CHHI_T1	4	8	4	0.63	0.68	0.05	-0.89	-0.79	1	1	0	900	900	0
4/8/2024 10:10	46005	BERW_T1	2	3	1	0.55	0.57	0.02	0	0	0	0	0	0	0	0
4/8/2024 10:10	46001	BERW_T1	0	0	0	0	0	0	1.02	0.92	0	0	0	0	0	0
4/8/2024 10:10	59101	WALK_T2	55	2	-53	0.4	0.25	-0.15	0.18	0.13	0	0	0	0	0	0
4/8/2024 10:11	53901	HALI_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/8/2024 10:11	53903	HALI_T2	2	7	5	1.25	0.64	-0.61	-0.15	-0.13	0	0	0	0	0	0
4/8/2024 10:11	53902	HALI_T2	1	3	2	5.6	2.27	-3.33	0	0	0	0	0	0	0	0
4/8/2024 10:12	53903	HALI_T2	2	7	5	1.25	0.64	-0.61	-0.15	-0.13	0	0	0	0	0	0
4/8/2024 10:12	41801	GOCI_T2	24	149	125	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
4/8/2024 10:12	24901	WHHA_T1	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
4/8/2024 10:12	24902	WHHA_T1	150	167	17	1.1	0.88	-0.22	0	0	0	0	0	0	0	0
4/8/2024 10:12	46005	BERW_T1	2	3	1	0.55	0.57	0.02	0	0	0	0	0	0	0	0
4/8/2024 10:12	53902	HALI_T2	1	3	2	5.6	2.27	-3.33	0	0	0	0	0	0	0	0
4/8/2024 10:12	40902	JESH_T1	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
4/8/2024 10:12	46001	BERW_T1	0	0	0	0	0	0	1.02	0.92	0	0	0	0	0	0
4/8/2024 10:12	53901	HALI_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/8/2024 10:13	56802	BENV_T2	2	11	9	0.45	0.39	-0.06	-1.85	-2	0	0	0	0	0	0
4/8/2024 10:13	53901	HALI_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/8/2024 10:13	53902	HALI_T2	1	3	2	5.6	2.27	-3.33	0	0	0	0	0	0	0	0
4/8/2024 10:13	53903	HALI_T2	2	7	5	1.25	0.64	-0.61	-0.15	-0.13	0	0	0	0	0	0
4/8/2024 10:14	56802	BENV_T2	2	11	9	0.45	0.39	-0.06	-0.62	-0.67	0	0	0	0	0	0
4/8/2024 10:14	41504	FAIR_T2	0	0	0	0	0	0	-0.95	-1.01	0	0	0	0	0	0
4/8/2024 10:15	55002	NEWP_T1	13	11	-2	1.2	1.15	-0.05	-0.23	-0.24	0	0	0	0	0	0
4/8/2024 10:15	24902	WHHA_T1	104	166	62	0.89	0.78	-0.11	0	0	0	0	0	0	0	0
4/8/2024 10:15	24901	WHHA_T1	2	4	2	0.8	0.58	-0.22	0	0	0	0	0	0	0	0
4/8/2024 10:15	41802	GOCI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 10:15	43202	MVIL_T2	126	149	23	0.59	0.56	-0.03	-0.6	-0.58	0	0	0	0	0	0
4/8/2024 10:15	16402	MOPO_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
4/8/2024 10:15	41801	GOCI_T2	45	156	111	0.26	0.3	0.04	0	0	0	0	0	0	0	0
4/8/2024 10:15	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.69	1	1	0	900	900	0
4/8/2024 10:16	25503	MADI_T1	1	0	-1	0.1	0	-0.1	-0.99	-1.03	0	0	0	0	0	0
4/8/2024 10:16	64702	LITI_T2	0	0	0	0	0	0	-0.69	-0.78	0	0	0	0	0	0
4/8/2024 10:16	25501	MADI_T1	1	2	1	0.2	0.65	0.45	0	0	0	0	0	0	0	0
4/8/2024 10:16	25502	MADI_T1	2	2	0	0.15	0.65	0.5	0	0	0	0	0	0	0	0
4/8/2024 10:17	43202	MVIL_T2	126	149	23	0.59	0.56	-0.03	-0.6	-0.58	0	0	0	0	0	0
4/8/2024 10:17	57401	SPAN_T1	22	31	9	0.3	0.38	0.08	0	0	0	0	0	0	0	0
4/8/2024 10:17	55002	NEWP_T1	13	11	-2	1.2	1.15	-0.05	-0.46	-0.48	0	0	0	0	0	0
4/8/2024 10:17	52503	PROG_T2	0	0	0	0	0	0	-0.67	-0.67	1	1	0	900	900	0
4/8/2024 10:17	57403	SPAN_T1	57	131	74	0.28	0.28	0	0.05	0	0	0	0	0	0	0
4/8/2024 10:18	64702	LITI_T2	0	0	0	0	0	0	-1.38	-1.56	0	0	0	0	0	0
4/8/2024 10:18	56504	ROCK_T2	0	4	4	0	0.68	0.68	83.96	83.96	0	0	0	0	0	0
4/8/2024 10:18	64101	REFR_T1	0	1	1	0	0.2	0.2	-0.83	-0.8	0	0	0	0	0	0
4/8/2024 10:18	56501	ROCK_T2	9	13	4	0.5	0.65	0.15	0	0	0	0	0	0	0	0
4/8/2024 10:19	64802	MONE_T2	3	28	25	0.23	0.4	0.17	0.25	0.26	0	0	0	0	0	0
4/8/2024 10:19	64801	MONE_T2	2	5	3	0.5	0.34	-0.16	0	0	0	0	0	0	0	0
4/8/2024 10:20	46302	ROHR_T1	29	27	-2	0.48	0.5	0.02	0.37	0.34	0	0	0	0	0	0
4/8/2024 10:20	65004	NEFF_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 10:20	55003	NEWP_T2	4	7	3	0.13	0.23	0.1	-0.04	-0.04	0	0	0	0	0	0
4/8/2024 10:20	52503	PROG_T2	0	0	0	0	0	0	-0.67	-0.67	1	1	0	900	900	0
4/8/2024 10:20	65001	NEFF_T2	0	0	0	0	0	0	-0.82	-0.88	2	2	0	2400	2400	0
4/8/2024 10:20	56504	ROCK_T2	0	4	4	0	0.68	0.68	0	0	0	0	0	0	0	0
4/8/2024 10:20	65003	NEFF_T2	2	1	-1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/8/2024 10:20	65005	NEFF_T2	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/8/2024 10:20	46301	ROHR_T1	251	215	-36	0.39	0.33	-0.06	0	0	0	0	0	0	0	0
4/8/2024 10:20	56501	ROCK_T2	9	13	4	0.5	0.65	0.15	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 10:20	55002	NEWP_T1	13	11	-2	1.2	1.15	-0.05	-0.23	-0.24	0	0	0	0	0	0
4/8/2024 10:21	43102	SMIL_T2	5	4	-1	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
4/8/2024 10:21	64101	REFR_T1	0	1	1	0	0.2	0.2	-0.83	-0.8	0	0	0	0	0	0
4/8/2024 10:21	43103	SMIL_T2	3	17	14	0.3	0.34	0.04	0	0	0	0	0	0	0	0
4/8/2024 10:21	44301	BEAV_T2	1	1	0	0.7	1.6	0.9	0.28	0.3	2	2	0	1500	1500	0
4/8/2024 10:21	55002	NEWP_T1	13	11	-2	1.2	1.15	-0.05	-0.23	-0.24	0	0	0	0	0	0
4/8/2024 10:21	43101	SMIL_T2	2	0	-2	0.7	0	-0.7	-0.76	-0.75	0	0	0	0	0	0
4/8/2024 10:21	43105	SMIL_T2	2	2	0	0.35	0.75	0.4	0	0	0	0	0	0	0	0
4/8/2024 10:21	42701	AUGU_T1	3	0	-3	0.5	0	-0.5	0	0	2	1	-1	1800	600	-1200
4/8/2024 10:21	43108	SMIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 10:22	56504	ROCK_T2	0	4	4	0	0.68	0.68	0	0	0	0	0	0	0	0
4/8/2024 10:22	56501	ROCK_T2	9	13	4	0.5	0.65	0.15	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 10:22	67502	WEWI_T2	2	3	1	0.9	0.67	-0.23	-1.15	-1.18	1	1	0	900	900	0
4/8/2024 10:22	15001	BLMO_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/8/2024 10:23	44301	BEAV_T2	1	1	0	0.7	1.6	0.9	0.3	0.32	2	2	0	1500	1500	0
4/8/2024 10:23	40201	BEGA_T2	3	3	0	0.43	0.57	0.14	0	0	0	0	0	0	0	0
4/8/2024 10:23	26001	WDAM_T1	0	0	0	0	0	0	-1.11	-1.2	0	0	0	0	0	0
4/8/2024 10:23	26002	WDAM_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/8/2024 10:24	46203	DANV_T2	0	12	12	0	0.41	0.41	0	0	0	0	0	0	0	0
4/8/2024 10:24	46206	DANV_T2	0	0	0	0	0	0	3.76	3.67	2	2	0	2400	2400	0
4/8/2024 10:24	57403	SPAN_T1	57	131	74	0.28	0.28	0	0	0	0	0	0	0	0	0
4/8/2024 10:24	57401	SPAN_T1	22	31	9	0.3	0.38	0.08	-2.4	-2.12	2	2	0	1200	1200	0
4/8/2024 10:25	11804	FRAN_T1	4	4	0	0.78	1.15	0.37	0.94	0.94	0	0	0	0	0	0
4/8/2024 10:25	15001	BLMO_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/8/2024 10:25	11805	FRAN_T1	3	7	4	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/8/2024 10:25	67401	WAKE_T2	3	3	0	0.2	0.3	0.1	-0.88	-0.87	0	0	0	0	0	0
4/8/2024 10:25	67502	WEWI_T2	2	3	1	0.9	0.67	-0.23	-2.37	-2.26	2	2	0	1800	1800	0
4/8/2024 10:26	42701	AUGU_T1	3	0	-3	0.5	0	-0.5	0	0	1	1	0	600	600	0
4/8/2024 10:29	64204	KINZ_T1	2	2	0	0.35	0.7	0.35	0	0	0	0	0	0	0	0
4/8/2024 10:29	67502	WEWI_T2	2	3	1	0.9	0.67	-0.23	-1.18	-1.13	1	1	0	900	900	0
4/8/2024 10:29	64202	KINZ_T1	3	3	0	0.33	0.7	0.37	0.65	0.68	0	0	0	0	0	0
4/8/2024 10:30	63802	HEMP_T1	1	7	6	0.2	0.23	0.03	0.17	0.19	0	0	0	0	0	0
4/8/2024 10:30	64202	KINZ_T1	3	2	-1	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
4/8/2024 10:30	63801	HEMP_T1	8	13	5	0.23	0.29	0.06	0	0	0	0	0	0	0	0
4/8/2024 10:30	63803	HEMP_T1	31	33	2	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
4/8/2024 10:30	64204	KINZ_T1	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/8/2024 10:30	63804	HEMP_T1	2	2	0	3.35	3.55	0.2	0	0	0	0	0	0	0	0
4/8/2024 10:30	64203	KINZ_T1	0	0	0	0	0	0	1.72	1.62	1	1	0	600	600	0
4/8/2024 10:31	63804	HEMP_T1	2	2	0	3.35	3.55	0.2	0	0	0	0	0	0	0	0
4/8/2024 10:31	63602	LETO_T1	0	0	0	0	0	0	-0.44	-0.4	0	0	0	0	0	0
4/8/2024 10:31	63801	HEMP_T1	8	13	5	0.23	0.29	0.06	0	0	0	0	0	0	0	0
4/8/2024 10:31	63803	HEMP_T1	31	33	2	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
4/8/2024 10:31	63802	HEMP_T1	1	7	6	0.2	0.23	0.03	0.17	0.19	0	0	0	0	0	0
4/8/2024 10:35	67002	STHI_T2	22	44	22	0.31	0.38	0.07	0.64	0.63	0	0	0	0	0	0
4/8/2024 10:35	52006	LING_T2	3	4	1	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
4/8/2024 10:35	52004	LING_T2	4	7	3	0.73	1.01	0.28	0.21	0.25	0	0	0	0	0	0
4/8/2024 10:35	52002	LING_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
4/8/2024 10:35	67001	STHI_T2	8	69	61	0.35	0.16	-0.19	0	0	0	0	0	0	0	0
4/8/2024 10:35	42201	SHEN_T2	0	0	0	0	0	0	-0.18	-0.13	1	1	0	600	600	0
4/8/2024 10:36	67001	STHI_T2	8	69	61	0.35	0.16	-0.19	0	0	0	0	0	0	0	0
4/8/2024 10:36	67002	STHI_T2	22	44	22	0.31	0.38	0.07	0.64	0.63	0	0	0	0	0	0
4/8/2024 10:37	42201	SHEN_T2	0	0	0	0	0	0	-0.18	-0.13	1	1	0	600	600	0
4/8/2024 10:37	67001	STHI_T2	8	69	61	0.35	0.16	-0.19	0	0	0	0	0	0	0	0
4/8/2024 10:37	18001	ZION_T1	3	5	2	0.4	0.64	0.24	0	0	0	0	0	0	0	0
4/8/2024 10:37	13701	SCHN_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/8/2024 10:37	13704	SCHN_T2	1	1	0	0.3	0.4	0.1	-0.39	-0.35	0	0	0	0	0	0
4/8/2024 10:37	67002	STHI_T2	22	44	22	0.31	0.38	0.07	0.64	0.63	0	0	0	0	0	0
4/8/2024 10:38	67002	STHI_T2	22	44	22	0.31	0.38	0.07	1.25	1.23	0	0	0	0	0	0
4/8/2024 10:38	13704	SCHN_T2	1	1	0	0.3	0.4	0.1	-0.35	-0.38	0	0	0	0	0	0
4/8/2024 10:38	60803	BUCK_T1	3	3	0	0.13	0.17	0.04	-0.54	-0.56	1	1	0	600	600	0
4/8/2024 10:38	13701	SCHN_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/8/2024 10:38	60801	BUCK_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/8/2024 10:38	67001	STHI_T2	8	69	61	0.35	0.16	-0.19	0	0	0	0	0	0	0	0
4/8/2024 10:39	59101	WALK_T2	2	2	0	0.25	0.5	0.25	0.11	0.17	0	0	0	0	0	0
4/8/2024 10:39	67002	STHI_T2	22	44	22	0.31	0.38	0.07	1.25	1.23	0	0	0	0	0	0
4/8/2024 10:39	67001	STHI_T2	8	69	61	0.35	0.16	-0.19	0	0	0	0	0	0	0	0
4/8/2024 10:39	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 10:40	46203	DANV_T2	3	7	4	0.3	0.41	0.11	0.16	0.16	0	0	0	0	0	0
4/8/2024 10:41	60801	BUCK_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/8/2024 10:41	67603	WARW_T1	1	2	1	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
4/8/2024 10:41	52403	GRPA_T2	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
4/8/2024 10:41	56802	BENV_T2	11	135	124	0.39	0.19	-0.2	-0.64	-0.67	0	0	0	0	0	0
4/8/2024 10:41	60803	BUCK_T1	3	3	0	0.13	0.17	0.04	-0.54	-0.56	1	1	0	600	600	0
4/8/2024 10:41	52401	GRPA_T2	2	1	-1	0.1	0.8	0.7	0	0	0	0	0	0	0	0
4/8/2024 10:41	52402	GRPA_T2	6	7	1	1.12	1.1	-0.02	0	0	0	0	0	0	0	0
4/8/2024 10:41	67605	WARW_T1	40	51	11	0.43	0.51	0.08	-1.07	-1.07	0	0	0	0	0	0
4/8/2024 10:42	46203	DANV_T2	3	7	4	0.3	0.41	0.11	0.16	0.16	0	0	0	0	0	0
4/8/2024 10:42	54504	ENOL_T2	1	1	0	1	0.1	-0.9	-1.09	-1.09	1	1	0	600	600	0
4/8/2024 10:42	54505	ENOL_T2	2	1	-1	0.8	0.8	0	0	0	0	0	0	0	0	0
4/8/2024 10:42	10702	CATA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/8/2024 10:42	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/8/2024 10:42	56803	BENV_T1	6	3	-3	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
4/8/2024 10:42	10707	CATA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 10:42	56801	BENV_T1	36	36	0	0.83	0.96	0.13	-0.81	-0.81	1	1	0	600	600	0
4/8/2024 10:42	10705	CATA_T2	2	1	-1	0.75	0.4	-0.35	-0.99	-0.95	1	1	0	900	900	0
4/8/2024 10:43	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/8/2024 10:43	54504	ENOL_T2	1	1	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
4/8/2024 10:43	56801	BENV_T1	36	36	0	0.83	0.96	0.13	-0.81	-0.81	1	1	0	600	600	0
4/8/2024 10:43	46004	BERW_T2	0	1	1	0	0.1	0.1	-0.3	-0.26	0	0	0	0	0	0
4/8/2024 10:43	54501	ENOL_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
4/8/2024 10:43	46203	DANV_T2	3	7	4	0.3	0.41	0.11	0.16	0.16	0	0	0	0	0	0
4/8/2024 10:43	54505	ENOL_T2	2	1	-1	0.8	0.8	0	0	0	0	0	0	0	0	0
4/8/2024 10:43	46002	BERW_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 10:43	63401	HONY_T1	0	0	0	0	0	0	1.11	1.07	0	0	0	0	0	0
4/8/2024 10:43	56803	BENV_T1	6	3	-3	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
4/8/2024 10:44	52402	GRPA_T2	6	7	1	1.12	1.1	-0.02	-0.86	-0.9	0	0	0	0	0	0
4/8/2024 10:44	52401	GRPA_T2	2	1	-1	0.1	0.8	0.7	0	0	0	0	0	0	0	0
4/8/2024 10:46	40101	HUNT_T2	0	1	1	0	0.2	0.2	-0.36	-0.34	0	0	0	0	0	0
4/8/2024 10:46	52401	GRPA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/8/2024 10:46	52402	GRPA_T2	7	5	-2	1.07	1.24	0.17	-0.86	-0.9	0	0	0	0	0	0
4/8/2024 10:46	12701	MACU_T1	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
4/8/2024 10:47	46801	HEPB_T2	2	2	0	0.4	0.1	-0.3	0.59	0.6	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/8/2024 10:47	12701	MACU_T1	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
4/8/2024 10:48	46302	ROHR_T1	22	97	75	0.58	0.29	-0.29	0	0	0	0	0	0	0	0
4/8/2024 10:48	52403	GRPA_T2	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
4/8/2024 10:48	46301	ROHR_T1	201	293	92	0.31	0.47	0.16	0.21	0.21	0	0	0	0	0	0
4/8/2024 10:48	52401	GRPA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/8/2024 10:48	52402	GRPA_T2	7	5	-2	1.07	1.24	0.17	0	0	0	0	0	0	0	0
4/8/2024 10:48	12701	MACU_T1	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
4/8/2024 10:49	57403	SPAN_T1	126	147	21	0.27	0.35	0.08	0	0	0	0	0	0	0	0
4/8/2024 10:49	57401	SPAN_T1	10	9	-1	0.55	0.63	0.08	-1.06	-1.11	1	1	0	600	600	0
4/8/2024 10:51	46302	ROHR_T1	22	97	75	0.58	0.29	-0.29	0	0	0	0	0	0	0	0
4/8/2024 10:51	45402	WBLO_T2	24	31	7	0.2	0.23	0.03	-1.66	-1.62	0	0	0	0	0	0
4/8/2024 10:51	46301	ROHR_T1	201	293	92	0.31	0.47	0.16	0.21	0.21	0	0	0	0	0	0
4/8/2024 10:51	67401	WAKE_T2	3	11	8	0.3	0.55	0.25	-0.87	-0.92	0	0	0	0	0	0
4/8/2024 10:52	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 10:53	20401	ASHF_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 10:53	20402	ASHF_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
4/8/2024 10:53	20403	ASHF_T2	6	8	2	0.57	0.48	-0.09	0.54	0.63	0	0	0	0	0	0
4/8/2024 10:55	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
4/8/2024 10:56	46005	BERW_T1	1	4	3	0.1	0.63	0.53	0	0	0	0	0	0	0	0
4/8/2024 10:56	46001	BERW_T1	0	0	0	0	0	0	2.1	2.01	0	0	0	0	0	0
4/8/2024 10:57	57401	SPAN_T1	10	9	-1	0.55	0.63	0.08	0	0	0	0	0	0	0	0
4/8/2024 10:57	20403	ASHF_T2	6	8	2	0.57	0.48	-0.09	0.54	0.63	0	0	0	0	0	0
4/8/2024 10:57	20401	ASHF_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 10:57	20402	ASHF_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
4/8/2024 10:57	57403	SPAN_T1	126	147	21	0.27	0.35	0.08	-0.04	-0.06	0	0	0	0	0	0
4/8/2024 10:58	57403	SPAN_T1	126	147	21	0.27	0.35	0.08	-0.07	-0.11	0	0	0	0	0	0
4/8/2024 10:58	57401	SPAN_T1	10	9	-1	0.55	0.63	0.08	0	0	0	0	0	0	0	0
4/8/2024 10:59	64303	LINC_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
4/8/2024 11:00	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.34	-0.39	0	0	0	0	0	0
4/8/2024 11:01	27502	WEIS_T2	1	4	3	0.2	0.43	0.23	-0.6	-0.58	0	0	0	0	0	0
4/8/2024 11:01	46001	BERW_T1	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
4/8/2024 11:01	27503	WEIS_T2	2	5	3	0.3	0.36	0.06	0	0	0	0	0	0	0	0
4/8/2024 11:01	46005	BERW_T1	2	4	2	0.55	0.63	0.08	0	0	0	0	0	0	0	0
4/8/2024 11:02	45003	LIME_2	1	1	0	4.4	4.3	-0.1	0	0	0	0	0	0	0	0
4/8/2024 11:02	64305	LINC_T1	0	0	0	0	0	0	-0.11	-0.14	0	0	0	0	0	0
4/8/2024 11:02	45001	LIME_2	29	28	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
4/8/2024 11:02	55002	NEWP_T1	8	11	3	1.39	1.31	-0.08	-0.22	-0.22	0	0	0	0	0	0
4/8/2024 11:02	45002	LIME_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 11:03	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.77	1	1	0	900	900	0
4/8/2024 11:03	25501	MADI_T1	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0	0
4/8/2024 11:03	25503	MADI_T1	0	154	154	0	0.36	0.36	-1.55	-1.54	0	0	0	0	0	0
4/8/2024 11:03	25502	MADI_T1	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
4/8/2024 11:03	55002	NEWP_T1	8	11	3	1.39	1.31	-0.08	-0.22	-0.22	0	0	0	0	0	0
4/8/2024 11:03	64903	MILL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 11:04	52002	LING_T2	1	0	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
4/8/2024 11:04	52004	LING_T2	4	3	-1	0.6	0.43	-0.17	0.2	0.2	0	0	0	0	0	0
4/8/2024 11:04	45003	LIME_2	1	1	0	4.4	4.3	-0.1	0	0	0	0	0	0	0	0
4/8/2024 11:04	45002	LIME_2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 11:04	52006	LING_T2	3	3	0	0.57	0.67	0.1	0	0	0	0	0	0	0	0
4/8/2024 11:04	45001	LIME_2	29	28	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
4/8/2024 11:05	41902	REED_T1	0	4	4	0	0.43	0.43	1.16	1.12	0	0	0	0	0	0
4/8/2024 11:05	41901	REED_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/8/2024 11:05	17002	RIRO_T2	173	152	-21	0.26	0.22	-0.04	0.66	0.71	0	0	0	0	0	0
4/8/2024 11:06	45602	WOOL_T1	2	3	1	0.5	0.8	0.3	0.5	0.46	0	0	0	0	0	0
4/8/2024 11:06	41902	REED_T1	0	4	4	0	0.43	0.43	1.16	1.12	0	0	0	0	0	0
4/8/2024 11:06	41901	REED_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/8/2024 11:07	41901	REED_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/8/2024 11:07	56501	ROCK_T2	9	9	0	0.62	0.49	-0.13	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 11:07	41902	REED_T1	0	4	4	0	0.43	0.43	1.16	1.12	0	0	0	0	0	0
4/8/2024 11:07	44301	BEAV_T2	1	1	0	0.2	1	0.8	-0.09	0.26	2	2	0	1500	1500	0
4/8/2024 11:07	64305	LINC_T1	0	0	0	0	0	0	-0.11	-0.14	0	0	0	0	0	0
4/8/2024 11:07	56504	ROCK_T2	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
4/8/2024 11:07	44601	SALE_T2	0	0	0	0	0	0	-0.03	0.29	2	2	0	1200	1200	0
4/8/2024 11:08	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.79	1	1	0	900	900	0
4/8/2024 11:08	45602	WOOL_T1	2	3	1	0.5	0.8	0.3	0.46	0.46	0	0	0	0	0	0
4/8/2024 11:08	64903	MILL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 11:09	44301	BEAV_T2	1	1	0	0.2	1	0.8	0.26	0.19	2	2	0	1500	1500	0
4/8/2024 11:09	41602	CLEV_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/8/2024 11:09	41601	CLEV_T1	1	1	0	0.3	1.5	1.2	0	0	0	0	0	0	0	0
4/8/2024 11:10	40201	BEGA_T2	4	6	2	0.35	0.43	0.08	0	0	0	0	0	0	0	0
4/8/2024 11:11	46005	BERW_T1	2	4	2	0.55	0.63	0.08	0	0	0	0	0	0	0	0
4/8/2024 11:11	67604	WARW_T1	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
4/8/2024 11:11	67603	WARW_T1	2	4	2	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/8/2024 11:11	67605	WARW_T1	49	59	10	0.52	0.61	0.09	-1.09	-1.05	0	0	0	0	0	0
4/8/2024 11:11	46001	BERW_T1	0	0	0	0	0	0	1.01	1.07	0	0	0	0	0	0
4/8/2024 11:11	45602	WOOL_T1	2	3	1	0.5	0.8	0.3	0.92	0.92	0	0	0	0	0	0
4/8/2024 11:11	40201	BEGA_T2	4	6	2	0.35	0.43	0.08	0	0	0	0	0	0	0	0
4/8/2024 11:12	41602	CLEV_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/8/2024 11:12	41601	CLEV_T1	1	1	0	0.3	1.5	1.2	0	0	0	0	0	0	0	0
4/8/2024 11:13	56501	ROCK_T2	9	9	0	0.62	0.49	-0.13	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 11:13	52403	GRPA_T2	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
4/8/2024 11:13	56504	ROCK_T2	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
4/8/2024 11:13	41601	CLEV_T1	1	1	0	0.3	1.5	1.2	0	0	0	0	0	0	0	0
4/8/2024 11:13	52402	GRPA_T2	5	5	0	1.14	1.28	0.14	0	0	0	0	0	0	0	0
4/8/2024 11:13	52401	GRPA_T2	1	1	0	0.8	0.7	-0.1	-0.71	-0.7	0	0	0	0	0	0
4/8/2024 11:13	41602	CLEV_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/8/2024 11:14	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.39	-0.41	0	0	0	0	0	0
4/8/2024 11:14	45702	LIND_T2	1	1	0	0.2	1.3	1.1	-0.46	-0.55	0	0	0	0	0	0
4/8/2024 11:14	46002	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 11:14	46004	BERW_T2	1	2	1	0.1	0	-0.1	-0.29	-0.17	0	0	0	0	0	0
4/8/2024 11:15	52401	GRPA_T2	1	3	2	0.6	0.43	-0.17	-0.71	-0.7	0	0	0	0	0	0
4/8/2024 11:15	52402	GRPA_T2	4	6	2	1.25	1.22	-0.03	0	0	0	0	0	0	0	0
4/8/2024 11:15	52403	GRPA_T2	0	11	11	0	0.43	0.43	0	0	0	0	0	0	0	0
4/8/2024 11:16	67605	WARW_T1	35	61	26	0.52	0.6	0.08	-1.09	-1.05	0	0	0	0	0	0
4/8/2024 11:16	67604	WARW_T1	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
4/8/2024 11:16	46001	BERW_T1	0	0	0	0	0	0	1.01	1.07	0	0	0	0	0	0
4/8/2024 11:16	45602	WOOL_T1	3	3	0	0.57	0.8	0.23	0.46	0.46	0	0	0	0	0	0
4/8/2024 11:16	46005	BERW_T1	4	5	1	0.63	0.56	-0.07	0	0	0	0	0	0	0	0
4/8/2024 11:16	67603	WARW_T1	0	6	6	0	0.38	0.38	0	0	0	0	0	0	0	0
4/8/2024 11:16	40101	HUNT_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
4/8/2024 11:17	64903	MILL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 11:17	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.79	1	1	0	900	900	0
4/8/2024 11:18	64305	LINC_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
4/8/2024 11:18	64303	LINC_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/8/2024 11:18	64903	MILL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 11:18	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.79	1	1	0	900	900	0
4/8/2024 11:18	15203	SFAR_T2	36	36	0	0.33	0.35	0.02	-1.55	-1.55	0	0	0	0	0	0
4/8/2024 11:18	15204	SFAR_T2	1	4	3	0.8	0.98	0.18	0	0	0	0	0	0	0	0
4/8/2024 11:18	54701	NEBL_T1	1	2	1	0.3	0.2	-0.1	0	0	1	1	0	600	600	0
4/8/2024 11:19	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.79	1	1	0	900	900	0
4/8/2024 11:19	64903	MILL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 11:20	13701	SCHN_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
4/8/2024 11:20	52501	PROG_T1	0	0	0	0	0	0	0.41	0.45	1	1	0	300	300	0
4/8/2024 11:20	13704	SCHN_T2	1	1	0	0.2	0.6	0.4	-0.39	-0.37	0	0	0	0	0	0
4/8/2024 11:21	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 11:22	45602	WOOL_T1	3	3	0	0.57	0.8	0.23	0.92	0.92	0	0	0	0	0	0
4/8/2024 11:22	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 11:22	66701	STRA_T1	1	2	1	0.7	1	0.3	0	0	0	0	0	0	0	0
4/8/2024 11:22	66703	STRA_T1	4	25	21	0.33	0.27	-0.06	-0.25	-0.21	0	0	0	0	0	0
4/8/2024 11:23	56504	ROCK_T2	3	3	0	0.57	0.23	-0.34	0	0	0	0	0	0	0	0
4/8/2024 11:23	41601	CLEV_T1	1	1	0	1.5	0.5	-1	0	0	0	0	0	0	0	0
4/8/2024 11:23	67505	WEWI_T1	1	4	3	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/8/2024 11:23	41602	CLEV_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/8/2024 11:23	66504	SMAN_T2	6	5	-1	0.65	0.34	-0.31	0	0	0	0	0	0	0	0
4/8/2024 11:23	66503	SMAN_T2	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
4/8/2024 11:23	64303	LINC_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/8/2024 11:23	66501	SMAN_T2	2	8	6	0.9	0.54	-0.36	0	0	0	0	0	0	0	0
4/8/2024 11:23	67501	WEWI_T1	2	4	2	0.25	0.98	0.73	-0.56	-0.48	0	0	0	0	0	0
4/8/2024 11:23	66502	SMAN_T2	17	33	16	0.38	0.4	0.02	0	0	0	0	0	0	0	0
4/8/2024 11:23	66505	SMAN_T2	2	8	6	0.15	0.61	0.46	0.41	0.52	4	4	0	2200	2200	0
4/8/2024 11:23	56501	ROCK_T2	9	8	-1	0.49	0.38	-0.11	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 11:23	64305	LINC_T1	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
4/8/2024 11:23	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 11:24	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 11:24	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	900	900	0
4/8/2024 11:24	64903	MILL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 11:25	67501	WEWI_T1	2	4	2	0.25	0.98	0.73	-1.12	-0.97	0	0	0	0	0	0
4/8/2024 11:25	41601	CLEV_T1	1	1	0	1.5	0.5	-1	0	0	0	0	0	0	0	0
4/8/2024 11:25	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 11:25	67505	WEWI_T1	1	4	3	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/8/2024 11:25	41602	CLEV_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/8/2024 11:26	67501	WEWI_T1	2	4	2	0.25	0.98	0.73	-0.56	-0.48	0	0	0	0	0	0
4/8/2024 11:26	67505	WEWI_T1	1	4	3	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/8/2024 11:27	11804	FRAN_T1	4	6	2	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
4/8/2024 11:27	67605	WARW_T1	35	61	26	0.52	0.6	0.08	-1.05	-1.03	0	0	0	0	0	0
4/8/2024 11:27	67603	WARW_T1	0	6	6	0	0.38	0.38	0	0	0	0	0	0	0	0
4/8/2024 11:27	11805	FRAN_T1	7	8	1	0.91	1.5	0.59	-1.24	-1.27	1	1	0	1200	1200	0
4/8/2024 11:27	45602	WOOL_T1	3	3	0	0.57	0.8	0.23	0.92	1	0	0	0	0	0	0
4/8/2024 11:27	46001	BERW_T1	0	0	0	0	0	0	1.07	1.13	0	0	0	0	0	0
4/8/2024 11:27	67604	WARW_T1	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
4/8/2024 11:27	46005	BERW_T1	4	5	1	0.63	0.56	-0.07	0	0	0	0	0	0	0	0
4/8/2024 11:28	60903	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 11:28	60902	DONG_T2	1	4	3	0.2	0.23	0.03	0.7	0.65	0	0	0	0	0	0
4/8/2024 11:28	60904	DONG_T2	6	10	4	0.23	0.32	0.09	0	0	0	0	0	0	0	0
4/8/2024 11:28	60901	DONG_T2	4	6	2	0.33	0.53	0.2	0	0	0	0	0	0	0	0
4/8/2024 11:29	64903	MILL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 11:29	56501	ROCK_T2	9	8	-1	0.49	0.38	-0.11	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 11:29	56504	ROCK_T2	3	3	0	0.57	0.23	-0.34	0	0	0	0	0	0	0	0
4/8/2024 11:29	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	900	900	0
4/8/2024 11:30	45702	LIND_T2	1	1	0	1.3	1.9	0.6	-0.55	-0.54	0	0	0	0	0	0
4/8/2024 11:31	55002	NEWP_T1	11	10	-1	1.24	1.19	-0.05	-0.23	-0.24	0	0	0	0	0	0
4/8/2024 11:31	67605	WARW_T1	59	53	-6	0.61	0.59	-0.02	-1.05	-1.03	0	0	0	0	0	0
4/8/2024 11:31	67604	WARW_T1	4	1	-3	0.25	0.2	-0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/8/2024 11:31	67603	WARW_T1	4	5	1	0.5	0.34	-0.16	0	0	0	0	0	0	0	0
4/8/2024 11:32	50503	MECH_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 11:32	46001	BERW_T1	0	0	0	0	0	0	1.07	1.13	0	0	0	0	0	0
4/8/2024 11:32	64801	MONE_T2	5	6	1	0.38	0.4	0.02	0	0	0	0	0	0	0	0
4/8/2024 11:32	50502	MECH_T1	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
4/8/2024 11:32	46005	BERW_T1	1	5	4	0.5	0.56	0.06	0	0	0	0	0	0	0	0
4/8/2024 11:32	50501	MECH_T1	4	4	0	1.18	1.33	0.15	0	0	0	0	0	0	0	0
4/8/2024 11:32	50505	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 11:32	50504	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 11:32	50506	MECH_T1	0	3	3	0	0.4	0.4	0.09	-0.01	2	2	0	1800	1800	0
4/8/2024 11:32	64802	MONE_T2	28	96	68	0.32	0.22	-0.1	0.13	0.12	0	0	0	0	0	0
4/8/2024 11:33	64203	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 11:33	64802	MONE_T2	28	96	68	0.32	0.22	-0.1	0.13	0.12	0	0	0	0	0	0
4/8/2024 11:33	64801	MONE_T2	5	6	1	0.38	0.4	0.02	0	0	0	0	0	0	0	0
4/8/2024 11:33	64201	KINZ_T1	3	5	2	0.1	0.18	0.08	-0.06	0.07	3	3	0	1500	1500	0
4/8/2024 11:33	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	900	900	0
4/8/2024 11:33	64204	KINZ_T1	2	2	0	0.95	1.15	0.2	0	0	0	0	0	0	0	0
4/8/2024 11:33	64202	KINZ_T1	4	5	1	0.55	0.44	-0.11	0	0	0	0	0	0	0	0
4/8/2024 11:34	25503	MADI_T1	154	161	7	0.36	0.38	0.02	-1.09	-1.07	0	0	0	0	0	0
4/8/2024 11:34	25502	MADI_T1	2	2	0	0.45	0.95	0.5	0	0	0	0	0	0	0	0
4/8/2024 11:34	56504	ROCK_T2	3	1	-2	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/8/2024 11:34	25501	MADI_T1	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
4/8/2024 11:34	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	900	900	0
4/8/2024 11:34	56501	ROCK_T2	8	11	3	0.35	0.52	0.17	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 11:34	55003	NEWP_T2	7	8	1	0.54	0.59	0.05	-0.08	-0.12	0	0	0	0	0	0
4/8/2024 11:34	42002	MNVL_T2	1	1	0	6.1	6.1	0	-0.19	-0.22	0	0	0	0	0	0
4/8/2024 11:34	42001	MNVL_T2	53	4	-49	0.18	0.23	0.05	0	0	0	0	0	0	0	0
4/8/2024 11:34	67204	TEHI_T2	1	1	0	0.6	0.9	0.3	-0.13	-0.14	0	0	0	0	0	0
4/8/2024 11:34	64303	LINC_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/8/2024 11:34	55002	NEWP_T1	11	10	-1	1.24	1.19	-0.05	-0.46	-0.48	0	0	0	0	0	0
4/8/2024 11:34	64305	LINC_T1	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
4/8/2024 11:35	43102	SMIL_T2	3	4	1	0.2	0.28	0.08	0	0	0	0	0	0	0	0
4/8/2024 11:35	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	900	900	0
4/8/2024 11:35	43101	SMIL_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
4/8/2024 11:35	13701	SCHN_T2	2	3	1	0.4	0.53	0.13	0	0	0	0	0	0	0	0
4/8/2024 11:35	43103	SMIL_T2	16	12	-4	0.44	0.37	-0.07	0	0	0	0	0	0	0	0
4/8/2024 11:35	13704	SCHN_T2	1	1	0	0.6	0.6	0	-0.37	-0.36	0	0	0	0	0	0
4/8/2024 11:35	43105	SMIL_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/8/2024 11:35	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 11:36	42002	MNVL_T2	1	1	0	6.1	6.1	0	-0.19	-0.22	0	0	0	0	0	0
4/8/2024 11:36	67001	STHI_T2	22	143	121	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
4/8/2024 11:36	13905	SEID_T1	1	2	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
4/8/2024 11:36	67204	TEHI_T2	1	1	0	0.6	0.9	0.3	-0.13	-0.14	0	0	0	0	0	0
4/8/2024 11:36	13704	SCHN_T2	1	1	0	0.6	0.6	0	-0.75	-0.73	0	0	0	0	0	0
4/8/2024 11:36	13901	SEID_T1	0	0	0	0	0	0	0.45	0.4	0	0	0	0	0	0
4/8/2024 11:36	13701	SCHN_T2	2	3	1	0.4	0.53	0.13	0	0	0	0	0	0	0	0
4/8/2024 11:36	13902	SEID_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
4/8/2024 11:36	42802	SELI_T1	0	0	0	0	0	0	-0.89	-0.87	1	1	0	900	900	0
4/8/2024 11:36	42001	MNVL_T2	53	4	-49	0.18	0.23	0.05	0	0	0	0	0	0	0	0
4/8/2024 11:36	67002	STHI_T2	30	52	22	0.39	0.47	0.08	2.1	1.99	0	0	0	0	0	0
4/8/2024 11:37	67001	STHI_T2	22	143	121	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
4/8/2024 11:37	42802	SELI_T1	0	0	0	0	0	0	-0.89	-0.87	1	1	0	900	900	0
4/8/2024 11:37	17002	RIRO_T2	149	157	8	0.22	0.24	0.02	0.63	0.64	0	0	0	0	0	0
4/8/2024 11:37	56501	ROCK_T2	8	11	3	0.35	0.52	0.17	-0.02	-0.02	0	0	0	0	0	0
4/8/2024 11:37	56504	ROCK_T2	3	1	-2	0.23	0	-0.23	83.96	83.96	0	0	0	0	0	0
4/8/2024 11:37	67002	STHI_T2	30	52	22	0.39	0.47	0.08	0.7	0.66	0	0	0	0	0	0
4/8/2024 11:38	60101	COCA_T1	0	3	3	0	0.47	0.47	0.32	0.27	0	0	0	0	0	0
4/8/2024 11:38	61103	BERK_T5	8	14	6	0.21	0.41	0.2	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 11:38	26001	WDAM_T1	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
4/8/2024 11:38	26002	WDAM_T1	1	4	3	0.3	0.53	0.23	0	0	0	0	0	0	0	0
4/8/2024 11:38	61101	BERK_T5	6	10	4	0.43	0.46	0.03	0	0	0	0	0	0	0	0
4/8/2024 11:38	56504	ROCK_T2	3	1	-2	0.23	0	-0.23	83.96	83.96	0	0	0	0	0	0
4/8/2024 11:38	61102	BERK_T5	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
4/8/2024 11:38	56501	ROCK_T2	8	11	3	0.35	0.52	0.17	0	0	0	0	0	0	0	0
4/8/2024 11:39	67603	WARW_T1	4	5	1	0.5	0.34	-0.16	-0.05	-0.09	0	0	0	0	0	0
4/8/2024 11:39	41601	CLEV_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/8/2024 11:39	56504	ROCK_T2	3	1	-2	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/8/2024 11:39	41602	CLEV_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/8/2024 11:39	56501	ROCK_T2	8	11	3	0.35	0.52	0.17	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 11:39	67001	STHI_T2	22	143	121	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
4/8/2024 11:39	67605	WARW_T1	59	53	-6	0.61	0.59	-0.02	-2.07	-2.09	0	0	0	0	0	0
4/8/2024 11:39	67604	WARW_T1	4	1	-3	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/8/2024 11:39	64305	LINC_T1	0	0	0	0	0	0	-0.16	-0.1	0	0	0	0	0	0
4/8/2024 11:39	67002	STHI_T2	30	52	22	0.39	0.47	0.08	1.33	1.38	0	0	0	0	0	0
4/8/2024 11:39	64303	LINC_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/8/2024 11:40	61102	BERK_T5	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
4/8/2024 11:40	67002	STHI_T2	30	52	22	0.39	0.47	0.08	0.66	0.69	0	0	0	0	0	0
4/8/2024 11:40	67001	STHI_T2	22	143	121	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
4/8/2024 11:40	56504	ROCK_T2	3	1	-2	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/8/2024 11:40	61103	BERK_T5	8	14	6	0.21	0.41	0.2	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 11:40	61101	BERK_T5	6	10	4	0.43	0.46	0.03	0	0	0	0	0	0	0	0
4/8/2024 11:40	64902	MILL_T2	0	0	0	0	0	0	-0.78	-0.77	1	1	0	900	900	0
4/8/2024 11:40	26001	WDAM_T1	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
4/8/2024 11:40	26002	WDAM_T1	1	4	3	0.3	0.53	0.23	0	0	0	0	0	0	0	0
4/8/2024 11:40	56501	ROCK_T2	8	11	3	0.35	0.52	0.17	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 11:41	41602	CLEV_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/8/2024 11:41	61102	BERK_T5	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
4/8/2024 11:41	54505	ENOL_T2	1	2	1	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
4/8/2024 11:41	54502	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/8/2024 11:41	54504	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 11:41	41601	CLEV_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/8/2024 11:41	61103	BERK_T5	8	14	6	0.21	0.41	0.2	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 11:41	60101	COCA_T1	0	3	3	0	0.47	0.47	0.32	0.27	0	0	0	0	0	0
4/8/2024 11:41	61101	BERK_T5	6	10	4	0.43	0.46	0.03	0	0	0	0	0	0	0	0
4/8/2024 11:41	54501	ENOL_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
4/8/2024 11:42	61101	BERK_T5	6	10	4	0.43	0.46	0.03	0	0	0	0	0	0	0	0
4/8/2024 11:42	61103	BERK_T5	8	14	6	0.21	0.41	0.2	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 11:42	67605	WARW_T1	59	53	-6	0.61	0.59	-0.02	-1.03	-1.04	0	0	0	0	0	0
4/8/2024 11:42	67605	WARW_T1	59	53	-6	0.61	0.59	-0.02	-1.03	-1.04	0	0	0	0	0	0
4/8/2024 11:42	67605	WARW_T1	59	53	-6	0.61	0.59	-0.02	-1.03	-1.04	0	0	0	0	0	0
4/8/2024 11:42	67605	WARW_T1	59	53	-6	0.61	0.59	-0.02	-1.03	-1.04	0	0	0	0	0	0
4/8/2024 11:42	61102	BERK_T5	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
4/8/2024 11:42	67604	WARW_T1	4	1	-3	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/8/2024 11:42	67603	WARW_T1	4	5	1	0.5	0.34	-0.16	0	0	0	0	0	0	0	0
4/8/2024 11:43	63802	HEMP_T1	4	11	7	0.23	0.2	-0.03	0.23	0.16	0	0	0	0	0	0
4/8/2024 11:43	63801	HEMP_T1	12	10	-2	0.26	0.31	0.05	0	0	0	0	0	0	0	0
4/8/2024 11:43	63803	HEMP_T1	28	38	10	0.23	0.28	0.05	0	0	0	0	0	0	0	0
4/8/2024 11:43	63804	HEMP_T1	2	2	0	3.45	3.4	-0.05	0	0	0	0	0	0	0	0
4/8/2024 11:44	63801	HEMP_T1	12	10	-2	0.26	0.31	0.05	0	0	0	0	0	0	0	0
4/8/2024 11:44	67604	WARW_T1	4	1	-3	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/8/2024 11:44	63803	HEMP_T1	28	38	10	0.23	0.28	0.05	0	0	0	0	0	0	0	0
4/8/2024 11:44	63804	HEMP_T1	2	2	0	3.45	3.4	-0.05	0	0	0	0	0	0	0	0
4/8/2024 11:44	67603	WARW_T1	4	5	1	0.5	0.34	-0.16	-0.05	-0.09	0	0	0	0	0	0
4/8/2024 11:44	64303	LINC_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/8/2024 11:44	63404	HONY_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/8/2024 11:44	64305	LINC_T1	0	0	0	0	0	0	-0.16	-0.1	0	0	0	0	0	0
4/8/2024 11:44	63802	HEMP_T1	4	11	7	0.23	0.2	-0.03	0.23	0.16	0	0	0	0	0	0
4/8/2024 11:44	11805	FRAN_T1	8	8	0	1.06	1.51	0.45	0	0	0	0	0	0	0	0
4/8/2024 11:44	67605	WARW_T1	59	53	-6	0.61	0.59	-0.02	0	0	0	0	0	0	0	0
4/8/2024 11:44	11804	FRAN_T1	4	9	5	1.4	0.87	-0.53	0.88	0.86	0	0	0	0	0	0
4/8/2024 11:44	63401	HONY_T1	0	0	0	0	0	0	1.05	0.96	0	0	0	0	0	0
4/8/2024 11:45	50502	MECH_T1	1	2	1	2.2	1.3	-0.9	0	0	0	0	0	0	0	0
4/8/2024 11:45	50506	MECH_T1	1	9	8	0.5	0.57	0.07	-0.01	0.16	2	2	0	1800	1800	0
4/8/2024 11:45	50504	MECH_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/8/2024 11:45	50501	MECH_T1	4	5	1	1.33	1.06	-0.27	0	0	0	0	0	0	0	0
4/8/2024 11:45	50505	MECH_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/8/2024 11:45	50503	MECH_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/8/2024 11:46	64303	LINC_T1	1	0	-1	0.4	0	-0.4	-0.25	-0.26	0	0	0	0	0	0
4/8/2024 11:46	67605	WARW_T1	45	50	5	0.56	0.58	0.02	-1.03	-1.04	0	0	0	0	0	0
4/8/2024 11:46	67603	WARW_T1	5	2	-3	0.34	0.35	0.01	0	0	0	0	0	0	0	0
4/8/2024 11:46	67604	WARW_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/8/2024 11:46	52501	PROG_T1	0	0	0	0	0	0	0.39	0.42	1	1	0	300	300	0
4/8/2024 11:48	50504	MECH_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/8/2024 11:48	50501	MECH_T1	4	5	1	1.33	1.06	-0.27	0	0	0	0	0	0	0	0
4/8/2024 11:48	50505	MECH_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/8/2024 11:48	50503	MECH_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/8/2024 11:48	50506	MECH_T1	1	9	8	0.5	0.57	0.07	-0.01	0.08	1	1	0	900	900	0
4/8/2024 11:48	50502	MECH_T1	1	2	1	2.2	1.3	-0.9	0	0	0	0	0	0	0	0
4/8/2024 11:49	64305	LINC_T1	0	0	0	0	0	0	-0.16	-0.1	0	0	0	0	0	0
4/8/2024 11:49	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.07	1	1	0	600	600	0
4/8/2024 11:49	64303	LINC_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/8/2024 11:49	52503	PROG_T2	0	0	0	0	0	0	-0.58	-0.7	1	1	0	900	900	0
4/8/2024 11:51	43105	SMIL_T2	2	3	1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/8/2024 11:51	43102	SMIL_T2	4	6	2	0.25	0.33	0.08	0	0	0	0	0	0	0	0
4/8/2024 11:51	43101	SMIL_T2	0	1	1	0	0.5	0.5	-0.72	-0.68	0	0	0	0	0	0
4/8/2024 11:51	43104	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 11:51	13704	SCHN_T2	1	1	0	0.5	0.6	0.1	-0.73	-0.79	0	0	0	0	0	0
4/8/2024 11:51	43103	SMIL_T2	8	10	2	0.46	0.38	-0.08	0	0	0	0	0	0	0	0
4/8/2024 11:51	13701	SCHN_T2	2	3	1	0.45	0.53	0.08	0	0	0	0	0	0	0	0
4/8/2024 11:52	13902	SEID_T1	1	1	0	1.1	1.6	0.5	0	0	0	0	0	0	0	0
4/8/2024 11:52	67603	WARW_T1	5	2	-3	0.34	0.35	0.01	0	0	0	0	0	0	0	0
4/8/2024 11:52	67604	WARW_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/8/2024 11:52	13701	SCHN_T2	2	3	1	0.45	0.53	0.08	0	0	0	0	0	0	0	0
4/8/2024 11:52	44302	BEAV_T2	0	217	217	0	0.56	0.56	0	0	0	0	0	0	0	0
4/8/2024 11:52	67605	WARW_T1	45	50	5	0.56	0.58	0.02	-1.03	-1.04	0	0	0	0	0	0
4/8/2024 11:52	44301	BEAV_T2	1	2	1	0.1	0.75	0.65	0.05	-0.12	2	2	0	1500	1500	0
4/8/2024 11:52	13901	SEID_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
4/8/2024 11:52	13704	SCHN_T2	1	1	0	0.5	0.6	0.1	-0.36	-0.39	0	0	0	0	0	0
4/8/2024 11:52	13905	SEID_T1	2	4	2	0.35	0.35	0	0	0	0	0	0	0	0	0
4/8/2024 11:53	56504	ROCK_T2	0	1	1	0	7.7	7.7	0	0	0	0	0	0	0	0
4/8/2024 11:53	44301	BEAV_T2	1	2	1	0.1	0.75	0.65	-0.12	-0.96	2	2	0	1500	1500	0
4/8/2024 11:53	44302	BEAV_T2	0	217	217	0	0.56	0.56	0	0	0	0	0	0	0	0
4/8/2024 11:53	56501	ROCK_T2	6	17	11	0.4	0.45	0.05	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/8/2024 11:54	44301	BEAV_T2	1	2	1	0.1	0.75	0.65	-0.12	-0.96	2	2	0	1500	1500	0
4/8/2024 11:54	44302	BEAV_T2	0	217	217	0	0.56	0.56	0	0	0	0	0	0	0	0
4/8/2024 11:54	56504	ROCK_T2	0	1	1	0	7.7	7.7	83.96	83.96	0	0	0	0	0	0
4/8/2024 11:54	56501	ROCK_T2	6	17	11	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/8/2024 11:55	67605	WARW_T1	45	50	5	0.56	0.58	0.02	-1.04	-1.07	0	0	0	0	0	0
4/8/2024 11:55	67604	WARW_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/8/2024 11:55	56504	ROCK_T2	0	1	1	0	7.7	7.7	0	0	0	0	0	0	0	0
4/8/2024 11:55	67603	WARW_T1	5	2	-3	0.34	0.35	0.01	-0.09	-0.09	0	0	0	0	0	0
4/8/2024 11:55	10801	CHHI_T1	8	12	4	0.81	1.02	0.21	-1.7	-1.65	2	2	0	1800	1800	0
4/8/2024 11:55	56501	ROCK_T2	6	17	11	0.4	0.45	0.05	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 11:55	41601	CLEV_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
4/8/2024 11:56	67604	WARW_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/8/2024 11:56	44301	BEAV_T2	1	2	1	0.1	0.75	0.65	-0.12	-0.96	2	2	0	1500	1500	0
4/8/2024 11:56	44302	BEAV_T2	0	217	217	0	0.56	0.56	0	0	0	0	0	0	0	0
4/8/2024 11:56	54504	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 11:56	67605	WARW_T1	45	50	5	0.56	0.58	0.02	-1.04	-1.07	0	0	0	0	0	0
4/8/2024 11:56	67605	WARW_T1	45	50	5	0.56	0.58	0.02	-1.04	-1.07	0	0	0	0	0	0
4/8/2024 11:56	67605	WARW_T1	45	50	5	0.56	0.58	0.02	-1.04	-1.07	0	0	0	0	0	0
4/8/2024 11:56	67605	WARW_T1	45	50	5	0.56	0.58	0.02	-1.04	-1.07	0	0	0	0	0	0
4/8/2024 11:56	54505	ENOL_T2	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
4/8/2024 11:56	46203	DANV_T2	0	13	13	0	0.31	0.31	0.37	0.56	0	0	0	0	0	0
4/8/2024 11:56	54502	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/8/2024 11:56	54501	ENOL_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
4/8/2024 11:56	67603	WARW_T1	5	2	-3	0.34	0.35	0.01	0	0	0	0	0	0	0	0
4/8/2024 11:56	42701	AUGU_T1	1	1	0	0.2	1	0.8	0	0	4	4	0	3600	3600	0
4/8/2024 11:57	41601	CLEV_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
4/8/2024 11:58	46203	DANV_T2	0	13	13	0	0.31	0.31	0.18	0.28	0	0	0	0	0	0
4/8/2024 11:58	56504	ROCK_T2	0	1	1	0	7.7	7.7	0	0	0	0	0	0	0	0
4/8/2024 11:58	56501	ROCK_T2	6	17	11	0.4	0.45	0.05	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 11:59	64305	LINC_T1	0	0	0	0	0	0	-0.1	-0.21	0	0	0	0	0	0
4/8/2024 11:59	64303	LINC_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/8/2024 11:59	46206	DANV_T2	0	0	0	0	0	0	3.74	3.72	2	2	0	2400	2400	0
4/8/2024 11:59	56504	ROCK_T2	0	1	1	0	7.7	7.7	0	0	0	0	0	0	0	0
4/8/2024 11:59	56501	ROCK_T2	6	17	11	0.4	0.45	0.05	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 11:59	46203	DANV_T2	0	13	13	0	0.31	0.31	0	0	0	0	0	0	0	0
4/8/2024 12:00	16101	BING_T2	2	4	2	0.55	0.45	-0.1	0.28	0.32	0	0	0	0	0	0
4/8/2024 12:00	67605	WARW_T1	50	29	-21	0.58	0.52	-0.06	0	0	0	0	0	0	0	0
4/8/2024 12:00	16103	BING_T2	2	2	0	0.95	1.15	0.2	0	0	0	0	0	0	0	0
4/8/2024 12:00	16102	BING_T2	10	10	0	1.01	0.98	-0.03	0	0	0	0	0	0	0	0
4/8/2024 12:00	56504	ROCK_T2	0	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0
4/8/2024 12:00	56501	ROCK_T2	11	17	6	0.52	0.52	0	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 12:00	11804	FRAN_T1	9	4	-5	0.86	1.2	0.34	0.86	0.95	0	0	0	0	0	0
4/8/2024 12:00	67604	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 12:00	11805	FRAN_T1	8	8	0	1.26	1.04	-0.22	0	0	0	0	0	0	0	0
4/8/2024 12:00	67603	WARW_T1	2	0	-2	0.35	0	-0.35	-0.09	-0.09	0	0	0	0	0	0
4/8/2024 12:01	67604	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 12:01	67603	WARW_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/8/2024 12:01	67605	WARW_T1	50	29	-21	0.58	0.52	-0.06	-1.04	-1.07	0	0	0	0	0	0
4/8/2024 12:02	64303	LINC_T1	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
4/8/2024 12:03	65804	RTWN_T1	0	2	2	0	0.7	0.7	-0.1	-0.13	1	1	0	600	600	0
4/8/2024 12:03	58401	MORO_T1	0	0	0	0	0	0	-2.13	-2.06	2	2	0	1200	1200	0
4/8/2024 12:04	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.03	1	1	0	600	600	0
4/8/2024 12:05	57101	SPHI_T2	6	8	2	1.1	0.74	-0.36	0	0	0	0	0	0	0	0
4/8/2024 12:05	57106	SPHI_T2	4	12	8	1.43	0.89	-0.54	0	0	0	0	0	0	0	0
4/8/2024 12:05	59202	THOM_T1	4	55	51	0.1	0.24	0.14	0	0	0	0	0	0	0	0
4/8/2024 12:05	64305	LINC_T1	0	0	0	0	0	0	-0.1	-0.21	0	0	0	0	0	0
4/8/2024 12:05	59201	THOM_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 12:05	57102	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 12:05	58401	MORO_T1	0	0	0	0	0	0	-2.13	-2.06	2	2	0	1200	1200	0
4/8/2024 12:05	57103	SPHI_T2	0	5	5	0	0.38	0.38	-0.35	-0.35	1	1	0	600	600	0
4/8/2024 12:05	57104	SPHI_T2	4	10	6	0.48	0.75	0.27	0	0	0	0	0	0	0	0
4/8/2024 12:06	13701	SCHN_T2	3	4	1	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
4/8/2024 12:06	25501	MADI_T1	2	2	0	0.7	0.95	0.25	0	0	0	0	0	0	0	0
4/8/2024 12:06	54206	PENN_T2	8	40	32	0.16	0.19	0.03	0	0	0	0	0	0	0	0
4/8/2024 12:06	43103	SMIL_T2	9	13	4	0.36	0.42	0.06	0	0	0	0	0	0	0	0
4/8/2024 12:06	25503	MADI_T1	88	197	109	0.2	0.33	0.13	-1.04	-1.05	0	0	0	0	0	0
4/8/2024 12:06	25502	MADI_T1	2	3	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/8/2024 12:06	43104	SMIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 12:06	43101	SMIL_T2	0	1	1	0	0.5	0.5	-0.68	-0.72	0	0	0	0	0	0
4/8/2024 12:06	43102	SMIL_T2	3	6	3	0.33	0.33	0	0	0	0	0	0	0	0	0
4/8/2024 12:06	13704	SCHN_T2	1	1	0	0.6	0.5	-0.1	-0.39	-0.38	0	0	0	0	0	0
4/8/2024 12:06	43105	SMIL_T2	2	3	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/8/2024 12:06	42701	AUGU_T1	1	3	2	1	0.53	-0.47	0	0	4	4	0	3600	3600	0
4/8/2024 12:06	44302	BEAV_T2	7	232	225	0.27	0.56	0.29	0	0	0	0	0	0	0	0
4/8/2024 12:06	44301	BEAV_T2	0	2	2	0	0.75	0.75	-0.12	-0.96	2	2	0	1500	1500	0
4/8/2024 12:06	54202	PENN_T2	1	4	3	0.2	0.28	0.08	0.64	0.61	0	0	0	0	0	0
4/8/2024 12:07	13704	SCHN_T2	1	1	0	0.6	0.5	-0.1	-0.79	-0.77	0	0	0	0	0	0
4/8/2024 12:07	13902	SEID_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
4/8/2024 12:07	13701	SCHN_T2	3	4	1	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
4/8/2024 12:07	13901	SEID_T1	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
4/8/2024 12:07	56501	ROCK_T2	11	17	6	0.52	0.52	0	-0.02	-0.02	0	0	0	0	0	0
4/8/2024 12:07	13905	SEID_T1	2	4	2	0.55	0.38	-0.17	0	0	0	0	0	0	0	0
4/8/2024 12:07	56504	ROCK_T2	0	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0
4/8/2024 12:08	56501	ROCK_T2	11	17	6	0.52	0.52	0	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 12:08	44301	BEAV_T2	0	2	2	0	0.75	0.75	-0.96	-0.88	2	2	0	1500	1500	0
4/8/2024 12:08	44302	BEAV_T2	7	232	225	0.27	0.56	0.29	0.54	0.46	0	0	0	0	0	0
4/8/2024 12:08	56504	ROCK_T2	0	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0
4/8/2024 12:09	56501	ROCK_T2	11	17	6	0.52	0.52	0	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 12:09	44301	BEAV_T2	0	2	2	0	0.75	0.75	-0.96	-0.88	2	2	0	1500	1500	0
4/8/2024 12:09	56504	ROCK_T2	0	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0
4/8/2024 12:09	44302	BEAV_T2	7	232	225	0.27	0.56	0.29	0.27	0.23	0	0	0	0	0	0
4/8/2024 12:10	52402	GRPA_T2	13	7	-6	0.85	1.21	0.36	0	0	0	0	0	0	0	0
4/8/2024 12:10	56501	ROCK_T2	11	17	6	0.52	0.52	0	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 12:10	60101	COCA_T1	2	6	4	0.2	0.47	0.27	0.27	0.25	0	0	0	0	0	0
4/8/2024 12:10	56504	ROCK_T2	0	3	3	0	0.7	0.7	167.92	167.92	0	0	0	0	0	0
4/8/2024 12:10	52403	GRPA_T2	14	1	-13	0.47	0.1	-0.37	0.02	0.01	0	0	0	0	0	0
4/8/2024 12:10	44302	BEAV_T2	7	232	225	0.27	0.56	0.29	0.54	0.46	0	0	0	0	0	0
4/8/2024 12:10	52401	GRPA_T2	2	4	2	0.65	0.28	-0.37	0	0	0	0	0	0	0	0
4/8/2024 12:10	44301	BEAV_T2	0	2	2	0	0.75	0.75	-0.96	-0.88	2	2	0	1500	1500	0
4/8/2024 12:11	56504	ROCK_T2	0	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0
4/8/2024 12:11	56501	ROCK_T2	11	17	6	0.52	0.52	0	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 12:12	54505	ENOL_T2	2	4	2	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
4/8/2024 12:12	54504	ENOL_T2	1	1	0	0.3	1.3	1	0	0	0	0	0	0	0	0
4/8/2024 12:12	54501	ENOL_T2	0	3	3	0	0.37	0.37	0.15	0.15	0	0	0	0	0	0
4/8/2024 12:12	54502	ENOL_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/8/2024 12:13	56501	ROCK_T2	11	17	6	0.52	0.52	0	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 12:13	56504	ROCK_T2	0	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0
4/8/2024 12:14	64202	KINZ_T1	5	2	-3	0.44	0.2	-0.24	0.58	0.57	0	0	0	0	0	0
4/8/2024 12:14	54505	ENOL_T2	2	4	2	0.65	0.45	-0.2	-1.38	-1.39	1	1	0	600	600	0
4/8/2024 12:14	64201	KINZ_T1	5	0	-5	0.16	0	-0.16	0	0	0	0	0	0	0	0
4/8/2024 12:14	54502	ENOL_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/8/2024 12:14	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/8/2024 12:14	64203	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 12:14	64204	KINZ_T1	2	2	0	1.15	0.7	-0.45	0	0	0	0	0	0	0	0
4/8/2024 12:14	54501	ENOL_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
4/8/2024 12:14	54504	ENOL_T2	1	1	0	0.3	1.3	1	0	0	0	0	0	0	0	0
4/8/2024 12:15	45003	LIME_2	1	2	1	4.8	4.7	-0.1	0	0	1	1	0	1200	1200	0
4/8/2024 12:15	64202	KINZ_T1	2	3	1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
4/8/2024 12:15	63202	MGTN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/8/2024 12:15	11804	FRAN_T1	4	7	3	1.2	1.09	-0.11	0.95	0.89	0	0	0	0	0	0
4/8/2024 12:15	11805	FRAN_T1	6	8	2	1.3	1.29	-0.01	0	0	0	0	0	0	0	0
4/8/2024 12:15	64204	KINZ_T1	2	2	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
4/8/2024 12:15	63201	MGTN_T2	0	0	0	0	0	0	0.17	0.23	1	1	0	600	600	0
4/8/2024 12:15	64201	KINZ_T1	0	0	0	0	0	0	1.03	0.73	1	2	1	300	600	300
4/8/2024 12:15	64305	LINC_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
4/8/2024 12:15	64203	KINZ_T1	0	0	0	0	0	0	1.26	1.3	1	1	0	600	600	0
4/8/2024 12:15	45001	LIME_2	33	31	-2	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
4/8/2024 12:16	56504	ROCK_T2	0	3	3	0	0.73	0.73	0	0	0	0	0	0	0	0
4/8/2024 12:16	50503	MECH_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/8/2024 12:16	63202	MGTN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/8/2024 12:16	63201	MGTN_T2	0	0	0	0	0	0	0.34	0.46	2	2	0	1200	1200	0
4/8/2024 12:16	50501	MECH_T1	5	4	-1	0.98	1.1	0.12	0	0	0	0	0	0	0	0
4/8/2024 12:16	50502	MECH_T1	2	2	0	1.3	1.25	-0.05	0	0	0	0	0	0	0	0
4/8/2024 12:16	45003	LIME_2	1	2	1	4.8	4.7	-0.1	0	0	1	1	0	1200	1200	0
4/8/2024 12:16	45001	LIME_2	33	31	-2	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
4/8/2024 12:16	50505	MECH_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/8/2024 12:16	50506	MECH_T1	9	3	-6	0.57	0.4	-0.17	0.46	1.53	2	2	0	1800	1800	0
4/8/2024 12:16	56501	ROCK_T2	17	14	-3	0.45	0.49	0.04	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 12:16	50504	MECH_T1	1	2	1	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
4/8/2024 12:17	64303	LINC_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
4/8/2024 12:18	52501	PROG_T1	0	0	0	0	0	0	0.49	0.48	1	1	0	300	300	0
4/8/2024 12:18	63202	MGTN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/8/2024 12:18	63201	MGTN_T2	0	0	0	0	0	0	0.17	0.23	1	1	0	600	600	0
4/8/2024 12:19	50506	MECH_T1	9	3	-6	0.57	0.4	-0.17	0.23	0.77	1	1	0	900	900	0
4/8/2024 12:19	50504	MECH_T1	1	2	1	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
4/8/2024 12:19	50505	MECH_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/8/2024 12:19	50502	MECH_T1	2	2	0	1.3	1.25	-0.05	0	0	0	0	0	0	0	0
4/8/2024 12:19	50503	MECH_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/8/2024 12:19	50501	MECH_T1	5	4	-1	0.98	1.1	0.12	0	0	0	0	0	0	0	0
4/8/2024 12:20	54206	PENN_T2	15	37	22	0.11	0.2	0.09	0	0	0	0	0	0	0	0
4/8/2024 12:20	54202	PENN_T2	2	4	2	0.15	0.28	0.13	0	0	0	0	0	0	0	0
4/8/2024 12:21	52503	PROG_T2	0	0	0	0	0	0	-0.66	-0.66	1	1	0	900	900	0
4/8/2024 12:21	64305	LINC_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
4/8/2024 12:22	57102	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 12:22	57103	SPHI_T2	0	5	5	0	0.38	0.38	-0.35	-0.35	1	1	0	600	600	0
4/8/2024 12:22	57106	SPHI_T2	4	12	8	1.38	0.88	-0.5	0	0	0	0	0	0	0	0
4/8/2024 12:22	57101	SPHI_T2	6	8	2	0.93	0.63	-0.3	0	0	0	0	0	0	0	0
4/8/2024 12:22	57104	SPHI_T2	4	11	7	1.98	0.8	-1.18	0	0	0	0	0	0	0	0
4/8/2024 12:24	67605	WARW_T1	29	26	-3	0.52	0.61	0.09	-1.1	-1.16	0	0	0	0	0	0
4/8/2024 12:24	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 12:25	54502	ENOL_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/8/2024 12:25	54501	ENOL_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
4/8/2024 12:25	54505	ENOL_T2	1	4	3	0.9	0.45	-0.45	-1.39	-1.4	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/8/2024 12:25	46203	DANV_T2	2	5	3	0.15	0.28	0.13	0	0	0	0	0	0	0	0
4/8/2024 12:25	46206	DANV_T2	0	0	0	0	0	0	1.79	1.82	1	1	0	1200	1200	0
4/8/2024 12:25	54504	ENOL_T2	1	1	0	0.2	1.3	1.1	0	0	0	0	0	0	0	0
4/8/2024 12:26	67605	WARW_T1	29	26	-3	0.52	0.61	0.09	-2.2	-1.16	0	0	0	0	0	0
4/8/2024 12:26	67605	WARW_T1	29	26	-3	0.52	0.61	0.09	-2.2	-2.32	0	0	0	0	0	0
4/8/2024 12:26	67605	WARW_T1	29	26	-3	0.52	0.61	0.09	-1.1	-1.16	0	0	0	0	0	0
4/8/2024 12:26	67605	WARW_T1	29	26	-3	0.52	0.61	0.09	-1.1	-2.32	0	0	0	0	0	0
4/8/2024 12:26	56501	ROCK_T2	17	14	-3	0.45	0.49	0.04	-0.02	-0.02	0	0	0	0	0	0
4/8/2024 12:26	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 12:26	56504	ROCK_T2	0	3	3	0	0.73	0.73	0	0	0	0	0	0	0	0
4/8/2024 12:27	46203	DANV_T2	2	5	3	0.15	0.28	0.13	0.14	0.11	0	0	0	0	0	0
4/8/2024 12:28	46203	DANV_T2	2	5	3	0.15	0.28	0.13	0.14	0.11	0	0	0	0	0	0
4/8/2024 12:30	46203	DANV_T2	5	8	3	0.28	0.2	-0.08	0.14	0.11	0	0	0	0	0	0
4/8/2024 12:31	64305	LINC_T1	0	0	0	0	0	0	-0.21	-0.27	0	0	0	0	0	0
4/8/2024 12:31	67603	WARW_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/8/2024 12:31	13302	ORVI_T2	4	10	6	0.93	0.72	-0.21	1.11	1.03	0	0	0	0	0	0
4/8/2024 12:31	67605	WARW_T1	23	37	14	0.47	0.55	0.08	-1.1	-1.16	0	0	0	0	0	0
4/8/2024 12:31	56504	ROCK_T2	3	3	0	0.7	0.73	0.03	0	0	0	0	0	0	0	0
4/8/2024 12:31	56501	ROCK_T2	14	13	-1	0.49	0.5	0.01	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 12:32	13302	ORVI_T2	4	10	6	0.93	0.72	-0.21	1.11	1.03	0	0	0	0	0	0
4/8/2024 12:33	54001	SDLE_T1	8	8	0	1.06	1.04	-0.02	0	0	0	0	0	0	0	0
4/8/2024 12:33	63202	MGTN_T2	0	1	1	0	0.4	0.4	0.04	0.18	1	1	0	900	900	0
4/8/2024 12:35	13302	ORVI_T2	4	10	6	0.93	0.72	-0.21	1.11	1.03	0	0	0	0	0	0
4/8/2024 12:35	54001	SDLE_T1	8	8	0	1.06	1.04	-0.02	0	0	0	0	0	0	0	0
4/8/2024 12:36	54001	SDLE_T1	8	8	0	1.06	1.04	-0.02	0	0	0	0	0	0	0	0
4/8/2024 12:36	64305	LINC_T1	0	0	0	0	0	0	-0.21	-0.27	0	0	0	0	0	0
4/8/2024 12:38	54001	SDLE_T1	8	8	0	1.06	1.04	-0.02	0	0	0	0	0	0	0	0
4/8/2024 12:38	41601	CLEV_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
4/8/2024 12:39	41502	FAIR_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
4/8/2024 12:41	41601	CLEV_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
4/8/2024 12:42	41601	CLEV_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
4/8/2024 12:47	25502	MADI_T1	2	2	0	0.7	1.05	0.35	0	0	0	0	0	0	0	0
4/8/2024 12:47	40602	PIGR_T1	0	0	0	0	0	0	-0.66	-0.65	1	1	0	600	600	0
4/8/2024 12:47	40601	PIGR_T1	9	107	98	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
4/8/2024 12:47	25501	MADI_T1	2	2	0	0.55	1.05	0.5	0	0	0	0	0	0	0	0
4/8/2024 12:47	25503	MADI_T1	235	307	72	0.3	0.35	0.05	-1.06	-1.05	0	0	0	0	0	0
4/8/2024 12:49	40602	PIGR_T1	0	0	0	0	0	0	-1.33	-1.29	2	2	0	1200	1200	0
4/8/2024 12:49	40601	PIGR_T1	9	107	98	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
4/8/2024 12:49	58401	MORO_T1	0	0	0	0	0	0	-1.99	-2.12	2	2	0	1200	1200	0
4/8/2024 12:49	58402	MORO_T1	0	0	0	0	0	0	-0.26	-0.25	2	2	0	1500	1500	0
4/8/2024 12:51	65802	RTWN_T2	1	2	1	0.1	0.95	0.85	-1.08	-1.13	0	0	0	0	0	0
4/8/2024 12:53	10801	CHHI_T1	7	7	0	1.23	1.14	-0.09	-0.78	-0.81	1	1	0	900	900	0
4/8/2024 12:56	67605	WARW_T1	26	41	15	0.61	0.57	-0.04	-1.11	-1.09	0	0	0	0	0	0
4/8/2024 12:56	67603	WARW_T1	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/8/2024 12:57	46203	DANV_T2	4	94	90	0.23	0.33	0.1	0	0	0	0	0	0	0	0
4/8/2024 12:57	67603	WARW_T1	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/8/2024 12:57	10801	CHHI_T1	7	7	0	1.23	1.14	-0.09	-0.78	-0.81	1	1	0	900	900	0
4/8/2024 12:57	67605	WARW_T1	26	41	15	0.61	0.57	-0.04	-1.11	-1.09	0	0	0	0	0	0
4/8/2024 12:57	46206	DANV_T2	0	0	0	0	0	0	1.93	1.93	1	1	0	1200	1200	0
4/8/2024 12:58	67603	WARW_T1	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/8/2024 12:58	67605	WARW_T1	26	41	15	0.61	0.57	-0.04	-1.11	-1.09	0	0	0	0	0	0
4/8/2024 12:59	46203	DANV_T2	4	94	90	0.23	0.33	0.1	0.19	0.2	0	0	0	0	0	0
4/8/2024 13:00	20601	GRWO_T2	316	777	461	6.17	3.63	-2.54	-0.54	-0.58	1	1	0	1200	1200	0
4/8/2024 13:00	20603	GRWO_T2	24	27	3	0.35	0.36	0.01	0	0	0	0	0	0	0	0
4/8/2024 13:01	20601	GRWO_T2	316	777	461	6.17	3.63	-2.54	0	0	0	0	0	0	0	0
4/8/2024 13:01	20603	GRWO_T2	24	27	3	0.35	0.36	0.01	0.44	0.37	0	0	0	0	0	0
4/8/2024 13:01	60502	NMAN_T2	17	18	1	0.38	0.46	0.08	-0.22	-0.36	0	0	0	0	0	0
4/8/2024 13:01	60501	NMAN_T2	53	55	2	0.61	0.59	-0.02	0	0	0	0	0	0	0	0
4/8/2024 13:01	67603	WARW_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
4/8/2024 13:01	67605	WARW_T1	37	38	1	0.55	0.57	0.02	-1.11	-1.09	0	0	0	0	0	0
4/8/2024 13:01	46203	DANV_T2	7	95	88	0.17	0.33	0.16	0.1	0.1	0	0	0	0	0	0
4/8/2024 13:01	60504	NMAN_T2	4	2	-2	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
4/8/2024 13:03	55002	NEWP_T1	8	13	5	0.98	1.03	0.05	-0.43	-0.52	0	0	0	0	0	0
4/8/2024 13:05	58402	MORO_T1	0	0	0	0	0	0	-0.25	-0.22	2	2	0	1500	1500	0
4/8/2024 13:05	13701	SCHN_T2	1	3	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/8/2024 13:05	13704	SCHN_T2	1	1	0	0.6	0.6	0	-0.35	-0.39	0	0	0	0	0	0
4/8/2024 13:06	13704	SCHN_T2	1	1	0	0.6	0.6	0	-0.35	-0.39	0	0	0	0	0	0
4/8/2024 13:06	13701	SCHN_T2	1	3	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/8/2024 13:09	10705	CATA_T2	0	2	2	0	0.2	0.2	-1.01	-0.92	1	1	0	900	900	0
4/8/2024 13:09	58402	MORO_T1	0	0	0	0	0	0	-0.22	-0.28	2	2	0	1500	1500	0
4/8/2024 13:09	10702	CATA_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/8/2024 13:09	10707	CATA_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/8/2024 13:10	13701	SCHN_T2	1	3	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/8/2024 13:10	13704	SCHN_T2	1	1	0	0.6	0.6	0	-0.39	-0.42	0	0	0	0	0	0
4/8/2024 13:12	67605	WARW_T1	37	38	1	0.55	0.57	0.02	-1.09	-1.09	0	0	0	0	0	0
4/8/2024 13:12	67603	WARW_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
4/8/2024 13:16	67603	WARW_T1	1	2	1	0.2	0.75	0.55	0	0	0	0	0	0	0	0
4/8/2024 13:16	67605	WARW_T1	36	38	2	0.59	0.54	-0.05	-1.09	-1.09	0	0	0	0	0	0
4/8/2024 13:19	11803	FRAN_T2	4	12	8	0.63	0.55	-0.08	0	0	0	0	0	0	0	0
4/8/2024 13:19	58402	MORO_T1	0	0	0	0	0	0	-0.22	-0.28	2	2	0	1500	1500	0
4/8/2024 13:19	13105	NHAM_T2	0	0	0	0	0	0	-0.78	-0.78	1	1	0	1200	1200	0
4/8/2024 13:19	11801	FRAN_T2	2	4	2	0.3	0.7	0.4	0.1	0.14	0	0	0	0	0	0
4/8/2024 13:21	58402	MORO_T1	0	0	0	0	0	0	-0.22	-0.28	2	2	0	1500	1500	0
4/8/2024 13:23	14802	TREI_T2	6	8	2	0.43	0.59	0.16	0	0	0	0	0	0	0	0
4/8/2024 13:23	14801	TREI_T2	6	5	-1	0.48	0.6	0.12	0.25	0.27	0	0	0	0	0	0
4/8/2024 13:26	67605	WARW_T1	36	38	2	0.59	0.54	-0.05	-1.09	-1.08	0	0	0	0	0	0
4/8/2024 13:26	67603	WARW_T1	1	2	1	0.2	0.75	0.55	0	0	0	0	0	0	0	0
4/8/2024 13:27	28703	HAML_T2	2	3	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/8/2024 13:27	28704	HAML_T2	1	1	0	0.3	0.5	0.2	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 13:27	28701	HAML_T2	5	4	-1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
4/8/2024 13:28	40101	HUNT_T2	3	0	-3	0.3	0	-0.3	-1.05	-1	0	0	0	0	0	0
4/8/2024 13:29	64303	LINC_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 13:29	64903	MILL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/8/2024 13:29	64902	MILL_T2	0	1	1	0	0.2	0.2	-0.7	-0.76	1	1	0	900	900	0
4/8/2024 13:29	64305	LINC_T1	0	0	0	0	0	0	-0.12	-0.08	0	0	0	0	0	0
4/8/2024 13:29	40101	HUNT_T2	3	0	-3	0.3	0	-0.3	-0.52	-0.5	0	0	0	0	0	0
4/8/2024 13:30	64902	MILL_T2	0	1	1	0	0.2	0.2	-1.41	-1.51	2	2	0	1800	1800	0
4/8/2024 13:30	64903	MILL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/8/2024 13:30	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
4/8/2024 13:31	67603	WARW_T1	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
4/8/2024 13:31	67605	WARW_T1	33	45	12	0.55	0.53	-0.02	-1.09	-1.08	0	0	0	0	0	0
4/8/2024 13:32	40101	HUNT_T2	0	0	0	0	0	0	0.52	-0.5	0	0	0	0	0	0
4/8/2024 13:34	64902	MILL_T2	0	1	1	0	0.2	0.2	-0.7	-0.76	1	1	0	900	900	0
4/8/2024 13:34	64903	MILL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/8/2024 13:34	64305	LINC_T1	0	0	0	0	0	0	-0.12	-0.08	0	0	0	0	0	0
4/8/2024 13:35	64902	MILL_T2	0	1	1	0	0.2	0.2	-0.7	-0.76	1	1	0	900	900	0
4/8/2024 13:35	64903	MILL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/8/2024 13:36	43105	SMIL_T2	6	7	1	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/8/2024 13:36	43102	SMIL_T2	7	7	0	0.71	0.76	0.05	0	0	0	0	0	0	0	0
4/8/2024 13:36	43101	SMIL_T2	2	0	-2	0.25	0	-0.25	-0.73	-0.69	0	0	0	0	0	0
4/8/2024 13:36	43103	SMIL_T2	10	14	4	0.45	0.46	0.01	0	0	0	0	0	0	0	0
4/8/2024 13:36	43104	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 13:38	10705	CATA_T2	1	1	0	0.3	0.2	-0.1	-0.96	-0.99	1	1	0	900	900	0
4/8/2024 13:38	10702	CATA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/8/2024 13:38	10707	CATA_T2	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/8/2024 13:39	41601	CLEV_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/8/2024 13:39	26002	WDAM_T1	3	5	2	0.17	0.88	0.71	0	0	0	0	0	0	0	0
4/8/2024 13:39	41602	CLEV_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/8/2024 13:39	26001	WDAM_T1	0	6	6	0	0.2	0.2	-0.86	-0.84	0	0	0	0	0	0
4/8/2024 13:40	56504	ROCK_T2	4	4	0	1.03	0.25	-0.78	0	0	0	0	0	0	0	0
4/8/2024 13:40	67605	WARW_T1	33	45	12	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
4/8/2024 13:40	56501	ROCK_T2	9	10	1	0.52	0.84	0.32	-0.02	-0.02	0	0	0	0	0	0
4/8/2024 13:40	67603	WARW_T1	2	2	0	0.45	0.7	0.25	0	-0.02	0	0	0	0	0	0
4/8/2024 13:41	10705	CATA_T2	1	1	0	0.3	0.2	-0.1	-0.96	-0.99	1	1	0	900	900	0
4/8/2024 13:41	67603	WARW_T1	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
4/8/2024 13:41	67605	WARW_T1	33	45	12	0.55	0.53	-0.02	-1.08	-1.1	0	0	0	0	0	0
4/8/2024 13:41	10702	CATA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/8/2024 13:41	10707	CATA_T2	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/8/2024 13:44	60101	COCA_T1	6	8	2	0.35	0.58	0.23	0.49	0.51	0	0	0	0	0	0
4/8/2024 13:45	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 13:45	63404	HONY_T1	2	39	37	0.25	0.19	-0.06	0	0	0	0	0	0	0	0
4/8/2024 13:45	41602	CLEV_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/8/2024 13:45	56501	ROCK_T2	10	11	1	0.68	0.81	0.13	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 13:45	41601	CLEV_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/8/2024 13:45	64305	LINC_T1	0	0	0	0	0	0	-0.08	-0.11	0	0	0	0	0	0
4/8/2024 13:45	67605	WARW_T1	34	50	16	0.56	0.55	-0.01	0	0	0	0	0	0	0	0
4/8/2024 13:45	63401	HONY_T1	0	0	0	0	0	0	0.44	0.53	0	0	0	0	0	0
4/8/2024 13:45	67603	WARW_T1	2	3	1	0.6	0.8	0.2	0	-0.02	0	0	0	0	0	0
4/8/2024 13:45	56504	ROCK_T2	4	2	-2	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/8/2024 13:46	59301	MCAL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 13:46	59302	MCAL_T1	0	0	0	0	0	0	-0.28	-0.28	1	1	0	600	600	0
4/8/2024 13:46	67605	WARW_T1	34	50	16	0.56	0.55	-0.01	-1.08	-1.1	0	0	0	0	0	0
4/8/2024 13:46	46203	DANV_T2	25	40	15	0.2	0.22	0.02	0.16	0.17	0	0	0	0	0	0
4/8/2024 13:46	67603	WARW_T1	2	3	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/8/2024 13:46	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 13:47	64303	LINC_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
4/8/2024 13:49	60101	COCA_T1	7	8	1	0.57	0.51	-0.06	0.24	0.25	0	0	0	0	0	0
4/8/2024 13:49	13302	ORVI_T2	14	9	-5	0.48	0.49	0.01	0.91	0.91	0	0	0	0	0	0
4/8/2024 13:50	11801	FRAN_T2	3	5	2	0.67	0.6	-0.07	0.15	0.16	0	0	0	0	0	0
4/8/2024 13:50	13302	ORVI_T2	14	9	-5	0.48	0.49	0.01	0.91	0.91	0	0	0	0	0	0
4/8/2024 13:50	11803	FRAN_T2	3	1	-2	0.8	1.2	0.4	0	0	0	0	0	0	0	0
4/8/2024 13:50	64305	LINC_T1	0	0	0	0	0	0	-0.08	-0.11	0	0	0	0	0	0
4/8/2024 13:51	67001	STHI_T2	230	593	363	0.15	0.21	0.06	0.05	0.04	0	0	0	0	0	0
4/8/2024 13:51	13302	ORVI_T2	14	9	-5	0.48	0.49	0.01	0.91	0.91	0	0	0	0	0	0
4/8/2024 13:51	67002	STHI_T2	42	180	138	0.38	0.28	-0.1	0.66	0.63	0	0	0	0	0	0
4/8/2024 13:52	67002	STHI_T2	42	180	138	0.38	0.28	-0.1	0.66	0.63	0	0	0	0	0	0
4/8/2024 13:52	67001	STHI_T2	230	593	363	0.15	0.21	0.06	0.05	0.04	0	0	0	0	0	0
4/8/2024 13:53	20601	GRWO_T2	133	473	340	7.85	8.72	0.87	0.28	0.33	0	0	0	0	0	0
4/8/2024 13:53	20603	GRWO_T2	3	3	0	0.8	0.53	-0.27	0	0	0	0	0	0	0	0
4/8/2024 13:53	67001	STHI_T2	230	593	363	0.15	0.21	0.06	0.04	0.03	0	0	0	0	0	0
4/8/2024 13:53	67002	STHI_T2	42	180	138	0.38	0.28	-0.1	1.89	1.87	0	0	0	0	0	0
4/8/2024 13:54	67001	STHI_T2	230	593	363	0.15	0.21	0.06	0	0	0	0	0	0	0	0
4/8/2024 13:54	67002	STHI_T2	42	180	138	0.38	0.28	-0.1	0.63	0.62	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/8/2024 13:55	56501	ROCK_T2	10	11	1	0.68	0.81	0.13	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 13:55	67605	WARW_T1	34	50	16	0.56	0.55	-0.01	-1.1	-1.1	0	0	0	0	0	0
4/8/2024 13:55	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 13:55	67001	STHI_T2	230	593	363	0.15	0.21	0.06	0	0	0	0	0	0	0	0
4/8/2024 13:55	56504	ROCK_T2	4	2	-2	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/8/2024 13:55	67603	WARW_T1	2	3	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/8/2024 13:55	67002	STHI_T2	42	180	138	0.38	0.28	-0.1	1.89	1.87	0	0	0	0	0	0
4/8/2024 13:56	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 13:56	67001	STHI_T2	230	593	363	0.15	0.21	0.06	0	0	0	0	0	0	0	0
4/8/2024 13:56	67002	STHI_T2	42	180	138	0.38	0.28	-0.1	0.63	0.62	0	0	0	0	0	0
4/8/2024 13:56	61102	BERK_T5	6	8	2	0.33	0.5	0.17	0.36	0.33	1	1	0	300	300	0
4/8/2024 13:56	61101	BERK_T5	13	11	-2	0.52	0.58	0.06	0	0	0	0	0	0	0	0
4/8/2024 13:56	67605	WARW_T1	34	50	16	0.56	0.55	-0.01	-1.1	-1.1	0	0	0	0	0	0
4/8/2024 13:56	67603	WARW_T1	2	3	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/8/2024 13:56	61103	BERK_T5	29	44	15	0.38	0.31	-0.07	0	0	0	0	0	0	0	0
4/8/2024 14:00	60101	COCA_T1	7	6	-1	0.56	0.32	-0.24	0.25	0.23	0	0	0	0	0	0
4/8/2024 14:01	67603	WARW_T1	2	3	1	0.65	0.8	0.15	0	0	0	0	0	0	0	0
4/8/2024 14:01	64305	LINC_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/8/2024 14:01	56501	ROCK_T2	10	11	1	0.83	0.77	-0.06	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 14:01	67605	WARW_T1	44	52	8	0.53	0.59	0.06	-1.1	-1.1	0	0	0	0	0	0
4/8/2024 14:01	56504	ROCK_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/8/2024 14:01	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 14:04	58401	MORO_T1	0	1	1	0	0.2	0.2	-0.99	-0.96	1	1	0	600	600	0
4/8/2024 14:04	58402	MORO_T1	0	0	0	0	0	0	-0.28	-0.29	2	2	0	1500	1500	0
4/8/2024 14:05	58401	MORO_T1	0	1	1	0	0.2	0.2	-0.99	-0.96	1	1	0	600	600	0
4/8/2024 14:05	64305	LINC_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/8/2024 14:06	58401	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 14:06	58402	MORO_T1	0	0	0	0	0	0	-0.28	-0.29	2	2	0	1500	1500	0
4/8/2024 14:07	43103	SMIL_T2	14	20	6	0.41	0.58	0.17	0	0	0	0	0	0	0	0
4/8/2024 14:07	43102	SMIL_T2	7	7	0	0.53	0.44	-0.09	0	0	0	0	0	0	0	0
4/8/2024 14:07	67001	STHI_T2	556	582	26	0.2	0.21	0.01	0	0	0	0	0	0	0	0
4/8/2024 14:07	43105	SMIL_T2	6	6	0	0.18	0.12	-0.06	0	0	0	0	0	0	0	0
4/8/2024 14:07	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 14:07	43101	SMIL_T2	0	0	0	0	0	0	-0.7	-0.75	0	0	0	0	0	0
4/8/2024 14:07	67002	STHI_T2	150	177	27	0.3	0.25	-0.05	0.63	0.62	0	0	0	0	0	0
4/8/2024 14:08	42802	SELI_T1	0	0	0	0	0	0	-1.7	-1.77	2	2	0	1800	1800	0
4/8/2024 14:08	67002	STHI_T2	150	177	27	0.3	0.25	-0.05	1.24	1.19	0	0	0	0	0	0
4/8/2024 14:08	64101	REFR_T1	8	7	-1	0.41	0.6	0.19	-1.94	-1.83	0	0	0	0	0	0
4/8/2024 14:08	67001	STHI_T2	556	582	26	0.2	0.21	0.01	0	0	0	0	0	0	0	0
4/8/2024 14:09	67002	STHI_T2	150	177	27	0.3	0.25	-0.05	1.24	1.19	0	0	0	0	0	0
4/8/2024 14:09	44301	BEAV_T2	0	3	3	0	0.2	0.2	-0.41	-0.41	2	2	0	1500	1500	0
4/8/2024 14:09	67001	STHI_T2	556	582	26	0.2	0.21	0.01	0.03	0.04	0	0	0	0	0	0
4/8/2024 14:09	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 14:09	56504	ROCK_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/8/2024 14:09	56501	ROCK_T2	10	11	1	0.83	0.77	-0.06	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 14:10	67002	STHI_T2	150	177	27	0.3	0.25	-0.05	1.24	1.19	0	0	0	0	0	0
4/8/2024 14:10	56501	ROCK_T2	10	11	1	0.83	0.77	-0.06	0	0	0	0	0	0	0	0
4/8/2024 14:10	67001	STHI_T2	556	582	26	0.2	0.21	0.01	0	0	0	0	0	0	0	0
4/8/2024 14:10	44301	BEAV_T2	0	3	3	0	0.2	0.2	-0.41	-0.41	2	2	0	1500	1500	0
4/8/2024 14:10	56504	ROCK_T2	1	2	1	0.1	0.15	0.05	83.96	83.96	0	0	0	0	0	0
4/8/2024 14:11	10801	OHHI_T1	8	11	3	0.94	1.03	0.09	-1.06	-1.09	1	1	0	900	900	0
4/8/2024 14:11	67001	STHI_T2	556	582	26	0.2	0.21	0.01	0	0	0	0	0	0	0	0
4/8/2024 14:11	56501	ROCK_T2	10	11	1	0.83	0.77	-0.06	-0.02	-0.02	0	0	0	0	0	0
4/8/2024 14:11	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 14:11	44301	BEAV_T2	0	3	3	0	0.2	0.2	-0.41	-0.41	2	2	0	1500	1500	0
4/8/2024 14:11	60101	COCA_T1	7	6	-1	0.56	0.32	-0.24	0.45	0.54	0	0	0	0	0	0
4/8/2024 14:11	56504	ROCK_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/8/2024 14:11	41601	CLEV_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/8/2024 14:11	67603	WARW_T1	2	3	1	0.65	0.8	0.15	0	0	0	0	0	0	0	0
4/8/2024 14:11	67002	STHI_T2	150	177	27	0.3	0.25	-0.05	1.24	1.19	0	0	0	0	0	0
4/8/2024 14:11	41602	CLEV_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/8/2024 14:11	67605	WARW_T1	44	52	8	0.53	0.59	0.06	-1.1	-1.11	0	0	0	0	0	0
4/8/2024 14:11	67605	WARW_T1	44	52	8	0.53	0.59	0.06	-1.1	-1.11	0	0	0	0	0	0
4/8/2024 14:11	67605	WARW_T1	44	52	8	0.53	0.59	0.06	-1.1	-1.11	0	0	0	0	0	0
4/8/2024 14:11	67605	WARW_T1	44	52	8	0.53	0.59	0.06	-1.1	-1.11	0	0	0	0	0	0
4/8/2024 14:11	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 14:12	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
4/8/2024 14:12	10801	OHHI_T1	8	11	3	0.94	1.03	0.09	-1.06	-1.09	1	1	0	900	900	0
4/8/2024 14:12	44301	BEAV_T2	0	3	3	0	0.2	0.2	-0.41	-0.41	2	2	0	1500	1500	0
4/8/2024 14:12	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 14:12	67001	STHI_T2	556	582	26	0.2	0.21	0.01	0.03	0.04	0	0	0	0	0	0
4/8/2024 14:12	67002	STHI_T2	150	177	27	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/8/2024 14:12	64101	REFR_T1	8	7	-1	0.41	0.6	0.19	-0.97	-0.91	0	0	0	0	0	0
4/8/2024 14:13	57403	SPAN_T1	175	178	3	0.7	0.64	-0.06	-0.07	-0.07	0	0	0	0	0	0
4/8/2024 14:13	54505	ENOL_T2	1	4	3	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
4/8/2024 14:13	67001	STHI_T2	556	582	26	0.2	0.21	0.01	0.03	0.04	0	0	0	0	0	0
4/8/2024 14:13	54502	ENOL_T2	1	2	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
4/8/2024 14:13	54503	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 14:13	57401	SPAN_T1	74	14	-60	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/8/2024 14:13	67002	STHI_T2	150	177	27	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/8/2024 14:13	54504	ENOL_T2	2	3	1	0.45	0.77	0.32	0	0	0	0	0	0	0	0
4/8/2024 14:13	54501	ENOL_T2	0	3	3	0	0.53	0.53	0.09	0.05	0	0	0	0	0	0
4/8/2024 14:14	57401	SPAN_T1	74	14	-60	0.2	0.27	0.07	-0.92	-0.95	1	1	0	600	600	0
4/8/2024 14:14	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
4/8/2024 14:14	57403	SPAN_T1	175	178	3	0.7	0.64	-0.06	0	0	0	0	0	0	0	0
4/8/2024 14:15	60101	COCA_T1	6	4	-2	0.32	0.23	-0.09	0.23	0.27	0	0	0	0	0	0
4/8/2024 14:15	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
4/8/2024 14:15	57401	SPAN_T1	14	8	-6	0.24	0.38	0.14	-0.92	-0.95	1	1	0	600	600	0
4/8/2024 14:15	57403	SPAN_T1	174	177	3	0.58	0.66	0.08	0	0	0	0	0	0	0	0
4/8/2024 14:16	63404	HONY_T1	15	71	56	0.15	0.19	0.04	0	0	0	0	0	0	0	0
4/8/2024 14:16	64305	LINC_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
4/8/2024 14:16	63401	HONY_T1	0	0	0	0	0	0	0.72	0.92	0	0	0	0	0	0
4/8/2024 14:16	67604	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 14:16	65003	NEFF_T2	9	7	-2	0.38	0.47	0.09	0	0	0	0	0	0	0	0
4/8/2024 14:16	67603	WARW_T1	3	3	0	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
4/8/2024 14:16	57401	SPAN_T1	14	8	-6	0.24	0.38	0.14	-0.92	-0.95	1	1	0	600	600	0
4/8/2024 14:16	65005	NEFF_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
4/8/2024 14:16	65004	NEFF_T2	8	5	-3	0.33	0.24	-0.09	-0.54	-0.53	0	0	0	0	0	0
4/8/2024 14:16	67605	WARW_T1	47	49	2	0.57	0.6	0.03	-1.1	-1.11	0	0	0	0	0	0
4/8/2024 14:16	65001	NEFF_T2	11	12	1	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
4/8/2024 14:16	57403	SPAN_T1	174	177	3	0.58	0.66	0.08	-0.06	-0.07	0	0	0	0	0	0
4/8/2024 14:16	60101	COCA_T1	6	4	-2	0.32	0.23	-0.09	0.23	0.27	0	0	0	0	0	0
4/8/2024 14:16	65002	NEFF_T2	3	4	1	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/8/2024 14:17	65003	NEFF_T2	9	7	-2	0.38	0.47	0.09	0	0	0	0	0	0	0	0
4/8/2024 14:17	42002	MNVL_T2	1	1	0	6.9	6.4	-0.5	0.75	0.7	0	0	0	0	0	0
4/8/2024 14:17	56501	ROCK_T2	11	11	0	0.75	0.73	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 14:17	42001	MNVL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 14:17	57403	SPAN_T1	174	177	3	0.58	0.66	0.08	-0.11	-0.13	0	0	0	0	0	0
4/8/2024 14:17	56504	ROCK_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/8/2024 14:17	59302	MCAL_T1	0	0	0	0	0	0	-0.31	-0.29	1	1	0	600	600	0
4/8/2024 14:17	57401	SPAN_T1	14	8	-6	0.24	0.38	0.14	-0.92	-0.95	1	1	0	600	600	0
4/8/2024 14:17	65002	NEFF_T2	3	4	1	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/8/2024 14:17	64903	MILL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/8/2024 14:17	63801	HEMP_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
4/8/2024 14:17	65004	NEFF_T2	8	5	-3	0.33	0.24	-0.09	0	0	0	0	0	0	0	0
4/8/2024 14:17	63803	HEMP_T1	2	1	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/8/2024 14:17	65005	NEFF_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
4/8/2024 14:17	65001	NEFF_T2	11	12	1	0.16	0.13	-0.03	-0.6	-0.71	1	1	0	1200	1200	0
4/8/2024 14:17	63804	HEMP_T1	1	1	0	6.4	6.3	-0.1	-0.69	-0.66	0	0	0	0	0	0
4/8/2024 14:17	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.76	1	1	0	900	900	0
4/8/2024 14:17	59301	MCAL_T1	1	5	4	0.1	0.36	0.26	0	0	0	0	0	0	0	0
4/8/2024 14:18	42001	MNVL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 14:18	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.76	1	1	0	900	900	0
4/8/2024 14:18	42002	MNVL_T2	1	1	0	6.9	6.4	-0.5	0.75	0.7	0	0	0	0	0	0
4/8/2024 14:18	64903	MILL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/8/2024 14:18	64301	LINC_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
4/8/2024 14:18	57403	SPAN_T1	174	177	3	0.58	0.66	0.08	0	0	0	0	0	0	0	0
4/8/2024 14:18	57401	SPAN_T1	14	8	-6	0.24	0.38	0.14	-0.92	-0.95	1	1	0	600	600	0
4/8/2024 14:19	42802	SELI_T1	0	0	0	0	0	0	-1.7	-1.77	2	2	0	1800	1800	0
4/8/2024 14:19	20401	ASHF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 14:19	20403	ASHF_T2	1	0	-1	0.4	0	-0.4	1.15	1.13	0	0	0	0	0	0
4/8/2024 14:20	57403	SPAN_T1	174	177	3	0.58	0.66	0.08	0	0	0	0	0	0	0	0
4/8/2024 14:20	65802	RTWN_T2	2	1	-1	0.85	0.2	-0.65	-0.53	-0.51	0	0	0	0	0	0
4/8/2024 14:20	41901	REED_T1	2	9	7	0.15	0.29	0.14	0	0	0	0	0	0	0	0
4/8/2024 14:20	64202	KINZ_T1	2	1	-1	0.2	0.2	0	0.74	0.73	0	0	0	0	0	0
4/8/2024 14:20	57401	SPAN_T1	14	8	-6	0.24	0.38	0.14	-0.92	-0.95	1	1	0	600	600	0
4/8/2024 14:20	64204	KINZ_T1	2	1	-1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/8/2024 14:20	41902	REED_T1	0	0	0	0	0	0	1.11	1.14	0	0	0	0	0	0
4/8/2024 14:21	11804	FRAN_T1	2	7	5	0.35	0.63	0.28	1.02	0.96	0	0	0	0	0	0
4/8/2024 14:21	60101	COCA_T1	6	4	-2	0.32	0.23	-0.09	0.23	0.27	0	0	0	0	0	0
4/8/2024 14:21	41901	REED_T1	2	9	7	0.15	0.29	0.14	0	0	0	0	0	0	0	0
4/8/2024 14:21	11805	FRAN_T1	4	7	3	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
4/8/2024 14:21	41902	REED_T1	0	0	0	0	0	0	1.11	1.14	0	0	0	0	0	0
4/8/2024 14:21	64305	LINC_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
4/8/2024 14:22	67001	STHI_T2	515	582	67	0.2	0.21	0.01	0	0	0	0	0	0	0	0
4/8/2024 14:22	25503	MADI_T1	243	339	96	0.28	0.4	0.12	-1.1	-1.02	0	0	0	0	0	0
4/8/2024 14:22	41901	REED_T1	2	9	7	0.15	0.29	0.14	0	0	0	0	0	0	0	0
4/8/2024 14:22	20403	ASHF_T2	1	0	-1	0.4	0	-0.4	0.57	0.56	0	0	0	0	0	0
4/8/2024 14:22	25501	MADI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 14:22	20401	ASHF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 14:22	41902	REED_T1	0	0	0	0	0	0	1.11	1.14	0	0	0	0	0	0
4/8/2024 14:22	67002	STHI_T2	152	157	5	0.26	0.2	-0.06	1.24	1.19	0	0	0	0	0	0
4/8/2024 14:23	20401	ASHF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 14:23	64903	MILL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/8/2024 14:23	20403	ASHF_T2	1	0	-1	0.4	0	-0.4	0.56	-0.24	0	0	0	0	0	0
4/8/2024 14:23	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.74	1	1	0	900	900	0
4/8/2024 14:24	65001	NEFF_T2	11	12	1	0.16	0.13	-0.03	-0.71	-0.58	1	1	0	1200	1200	0
4/8/2024 14:24	67002	STHI_T2	152	157	5	0.26	0.2	-0.06	1.19	1.13	0	0	0	0	0	0
4/8/2024 14:24	65005	NEFF_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
4/8/2024 14:24	65004	NEFF_T2	8	5	-3	0.33	0.24	-0.09	0	0	0	0	0	0	0	0
4/8/2024 14:24	65003	NEFF_T2	9	7	-2	0.38	0.47	0.09	0	0	0	0	0	0	0	0
4/8/2024 14:24	67001	STHI_T2	515	582	67	0.2	0.21	0.01	0	0	0	0	0	0	0	0
4/8/2024 14:24	65002	NEFF_T2	3	4	1	0.3	0.23	-0.07	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/8/2024 14:24	60101	COCA_T1	6	4	-2	0.32	0.23	-0.09	0.27	0.21	0	0	0	0	0	0
4/8/2024 14:25	67603	WARW_T1	3	3	0	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
4/8/2024 14:25	67001	STHI_T2	515	582	67	0.2	0.21	0.01	0	0	0	0	0	0	0	0
4/8/2024 14:25	67605	WARW_T1	47	49	2	0.57	0.6	0.03	-1.11	-1.13	0	0	0	0	0	0
4/8/2024 14:25	67604	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 14:25	67002	STHI_T2	152	157	5	0.26	0.2	-0.06	0.59	0.57	0	0	0	0	0	0
4/8/2024 14:26	44301	BEAV_T2	3	1	-2	0.2	0	-0.2	-0.41	0.54	2	1	-1	1500	600	-900
4/8/2024 14:26	67603	WARW_T1	3	3	0	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
4/8/2024 14:26	67604	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 14:26	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 14:26	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 14:26	67605	WARW_T1	47	49	2	0.57	0.6	0.03	-1.11	-1.13	0	0	0	0	0	0
4/8/2024 14:27	67604	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 14:27	60101	COCA_T1	6	4	-2	0.32	0.23	-0.09	0.27	0.21	0	0	0	0	0	0
4/8/2024 14:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 14:27	52401	GRPA_T2	1	28	27	0.4	0.17	-0.23	-0.64	-0.63	0	0	0	0	0	0
4/8/2024 14:27	67605	WARW_T1	47	49	2	0.57	0.6	0.03	-2.22	-2.26	0	0	0	0	0	0
4/8/2024 14:27	67603	WARW_T1	3	3	0	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
4/8/2024 14:27	52402	GRPA_T2	9	17	8	0.9	0.74	-0.16	-1.03	-1.01	0	0	0	0	0	0
4/8/2024 14:27	52403	GRPA_T2	3	5	2	0.3	0.26	-0.04	0.24	0.22	0	0	0	0	0	0
4/8/2024 14:27	10801	CHHI_T1	11	9	-2	1.03	0.69	-0.34	-1.09	-1.08	1	1	0	900	900	0
4/8/2024 14:28	10801	CHHI_T1	11	9	-2	1.03	0.69	-0.34	-1.09	-1.08	1	1	0	900	900	0
4/8/2024 14:28	46203	DANV_T2	12	0	-12	0.13	0	-0.13	0.32	0.25	0	0	0	0	0	0
4/8/2024 14:28	54502	ENOL_T2	2	1	-1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/8/2024 14:28	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 14:28	54501	ENOL_T2	3	0	-3	0.53	0	-0.53	0.05	0.07	0	0	0	0	0	0
4/8/2024 14:28	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
4/8/2024 14:28	54505	ENOL_T2	4	3	-1	0.65	0.37	-0.28	0	0	0	0	0	0	0	0
4/8/2024 14:28	54504	ENOL_T2	3	2	-1	0.77	0.5	-0.27	0	0	0	0	0	0	0	0
4/8/2024 14:29	52403	GRPA_T2	3	5	2	0.3	0.26	-0.04	0.08	0.07	0	0	0	0	0	0
4/8/2024 14:29	20401	ASHF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 14:29	52402	GRPA_T2	9	17	8	0.9	0.74	-0.16	0	0	0	0	0	0	0	0
4/8/2024 14:29	52401	GRPA_T2	1	28	27	0.4	0.17	-0.23	-0.64	-0.63	0	0	0	0	0	0
4/8/2024 14:29	20403	ASHF_T2	1	0	-1	0.4	0	-0.4	0.56	-0.24	0	0	0	0	0	0
4/8/2024 14:29	60101	COCA_T1	6	4	-2	0.32	0.23	-0.09	0.27	0.21	0	0	0	0	0	0
4/8/2024 14:29	64303	LINC_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
4/8/2024 14:30	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
4/8/2024 14:30	52403	GRPA_T2	1	6	5	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
4/8/2024 14:30	20603	GRWO_T2	3	0	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/8/2024 14:30	52401	GRPA_T2	5	27	22	0.24	0.16	-0.08	0	0	0	0	0	0	0	0
4/8/2024 14:30	20601	GRWO_T2	0	0	0	0	0	0	0	0	0	1	1	0	1200	1200
4/8/2024 14:30	52402	GRPA_T2	17	9	-8	0.71	0.89	0.18	-1.03	-1.01	0	0	0	0	0	0
4/8/2024 14:30	28703	HAML_T2	3	3	0	0.87	0.9	0.03	0	0	0	0	0	0	0	0
4/8/2024 14:30	28701	HAML_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/8/2024 14:30	28704	HAML_T2	1	1	0	0.9	1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 14:30	28702	HAML_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/8/2024 14:31	42001	MNVL_T2	0	1	1	0	0.2	0.2	-0.07	-0.04	0	0	0	0	0	0
4/8/2024 14:31	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
4/8/2024 14:31	57403	SPAN_T1	176	176	0	0.61	0.64	0.03	-0.07	-0.09	0	0	0	0	0	0
4/8/2024 14:31	57401	SPAN_T1	4	10	6	0.63	0.36	-0.27	0	0	0	0	0	0	0	0
4/8/2024 14:31	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.74	1	1	0	900	900	0
4/8/2024 14:31	64903	MILL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/8/2024 14:31	42002	MNVL_T2	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
4/8/2024 14:31	67605	WARW_T1	46	42	-4	0.62	0.58	-0.04	-1.11	-1.13	0	0	0	0	0	0
4/8/2024 14:31	67603	WARW_T1	3	0	-3	0.57	0	-0.57	0	0	0	0	0	0	0	0
4/8/2024 14:32	63201	MGTN_T2	0	0	0	0	0	0	0.61	0.51	2	2	0	1200	1200	0
4/8/2024 14:32	11805	FRAN_T1	0	7	7	0	0.36	0.36	0	0	0	0	0	0	0	0
4/8/2024 14:32	64903	MILL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/8/2024 14:32	11804	FRAN_T1	1	7	6	0.2	0.63	0.43	0.96	0.81	0	0	0	0	0	0
4/8/2024 14:32	64202	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 14:32	20403	ASHF_T2	0	0	0	0	0	0	0.56	-0.24	0	0	0	0	0	0
4/8/2024 14:32	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.74	1	1	0	900	900	0
4/8/2024 14:32	64305	LINC_T1	0	0	0	0	0	0	-0.1	-0.01	0	0	0	0	0	0
4/8/2024 14:32	63404	HONY_T1	5	71	66	0.18	0.19	0.01	0	0	0	0	0	0	0	0
4/8/2024 14:32	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
4/8/2024 14:32	57401	SPAN_T1	4	10	6	0.63	0.36	-0.27	0	0	0	0	0	0	0	0
4/8/2024 14:32	64204	KINZ_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/8/2024 14:32	63202	MGTN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 14:32	64203	KINZ_T1	0	0	0	0	0	0	1.45	1.45	1	1	0	600	600	0
4/8/2024 14:32	20401	ASHF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 14:32	63401	HONY_T1	0	0	0	0	0	0	0.92	0.97	0	0	0	0	0	0
4/8/2024 14:32	57403	SPAN_T1	176	176	0	0.61	0.64	0.03	-0.07	-0.09	0	0	0	0	0	0
4/8/2024 14:33	25501	MADI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 14:33	57401	SPAN_T1	4	10	6	0.63	0.36	-0.27	0	0	0	0	0	0	0	0
4/8/2024 14:33	64903	MILL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/8/2024 14:33	64902	MILL_T2	0	0	0	0	0	0	-1.51	-1.48	2	2	0	1800	1800	0
4/8/2024 14:33	25503	MADI_T1	283	384	101	0.33	0.48	0.15	-1.02	-1.08	0	0	0	0	0	0
4/8/2024 14:33	59301	MCAL_T1	3	5	2	0.27	0.36	0.09	0	0	0	0	0	0	0	0
4/8/2024 14:33	55001	NEWP_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 14:33	55002	NEWP_T1	11	11	0	1.07	1.24	0.17	-0.21	-0.25	0	0	0	0	0	0
4/8/2024 14:33	63201	MGTN_T2	0	0	0	0	0	0	0.3	0.26	1	1	0	600	600	0
4/8/2024 14:33	57403	SPAN_T1	176	176	0	0.61	0.64	0.03	-0.13	-0.18	0	0	0	0	0	0
4/8/2024 14:33	63202	MGTN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 14:33	59302	MCAL_T1	0	0	0	0	0	0	-0.29	-0.35	1	1	0	600	600	0
4/8/2024 14:33	41901	REED_T1	5	9	4	0.16	0.43	0.27	0	0	0	0	0	0	0	0
4/8/2024 14:33	41902	REED_T1	0	0	0	0	0	0	1.14	1.1	0	0	0	0	0	0
4/8/2024 14:34	63201	MGTN_T2	0	0	0	0	0	0	0.3	0.26	1	1	0	600	600	0
4/8/2024 14:34	20401	ASHF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 14:34	57403	SPAN_T1	176	176	0	0.61	0.64	0.03	-0.07	-0.09	0	0	0	0	0	0
4/8/2024 14:34	63202	MGTN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 14:34	57401	SPAN_T1	4	10	6	0.63	0.36	-0.27	0	0	0	0	0	0	0	0
4/8/2024 14:34	20403	ASHF_T2	0	0	0	0	0	0	0.56	-0.24	0	0	0	0	0	0
4/8/2024 14:35	20401	ASHF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 14:35	20403	ASHF_T2	0	0	0	0	0	0	0.56	-0.24	0	0	0	0	0	0
4/8/2024 14:35	58402	MORO_T1	0	0	0	0	0	0	-0.31	-0.32	2	2	0	1500	1500	0
4/8/2024 14:35	46203	DANV_T2	0	0	0	0	0	0	0.16	0.12	0	0	0	0	0	0
4/8/2024 14:36	55001	NEWP_T1	0	2	2	0	0.2	0.2	-0.11	-0.12	0	0	0	0	0	0
4/8/2024 14:36	41901	REED_T1	5	9	4	0.16	0.43	0.27	0	0	0	0	0	0	0	0
4/8/2024 14:36	41902	REED_T1	0	0	0	0	0	0	1.14	1.1	0	0	0	0	0	0
4/8/2024 14:36	55002	NEWP_T1	11	11	0	1.07	1.24	0.17	0	0	0	0	0	0	0	0
4/8/2024 14:37	55002	NEWP_T1	11	11	0	1.07	1.24	0.17	-0.21	-0.25	0	0	0	0	0	0
4/8/2024 14:37	41902	REED_T1	0	0	0	0	0	0	1.14	1.1	0	0	0	0	0	0
4/8/2024 14:37	55001	NEWP_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 14:37	64305	LINC_T1	0	0	0	0	0	0	-0.1	-0.01	0	0	0	0	0	0
4/8/2024 14:37	41901	REED_T1	5	9	4	0.16	0.43	0.27	0	0	0	0	0	0	0	0
4/8/2024 14:37	56501	ROCK_T2	10	11	1	0.74	0.67	-0.07	-0.03	-0.03	0	0	0	0	0	0
4/8/2024 14:37	58401	MORO_T1	0	0	0	0	0	0	-0.93	-0.99	1	1	0	600	600	0
4/8/2024 14:37	56504	ROCK_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 14:38	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.75	1	1	0	900	900	0
4/8/2024 14:38	57301	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 14:38	67502	WEWI_T2	42	2	-40	0.22	0.3	0.08	0	0	0	0	0	0	0	0
4/8/2024 14:38	65004	NEFF_T2	5	1	-4	0.24	0.1	-0.14	0	0	0	0	0	0	0	0
4/8/2024 14:38	60605	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 14:38	65002	NEFF_T2	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/8/2024 14:38	55001	NEWP_T1	0	2	2	0	0.2	0.2	-0.12	-0.11	0	0	0	0	0	0
4/8/2024 14:38	67001	STHI_T2	561	539	-22	0.2	0.2	0	0	0	0	0	0	0	0	0
4/8/2024 14:38	67002	STHI_T2	148	115	-33	0.2	0.19	-0.01	1.13	1.11	0	0	0	0	0	0
4/8/2024 14:38	57304	MOAL_T2	7	27	20	0.14	0.22	0.08	-0.61	-0.75	0	0	0	0	0	0
4/8/2024 14:38	65001	NEFF_T2	5	11	6	0.12	0.12	0	0.58	0.62	1	1	0	1200	1200	0
4/8/2024 14:38	65005	NEFF_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/8/2024 14:38	67503	WEWI_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
4/8/2024 14:38	55002	NEWP_T1	11	11	0	1.07	1.24	0.17	0	0	0	0	0	0	0	0
4/8/2024 14:38	57303	MOAL_T2	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 14:38	58402	MORO_T1	0	0	0	0	0	0	-0.32	-0.35	2	2	0	1500	1500	0
4/8/2024 14:38	64903	MILL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/8/2024 14:38	65003	NEFF_T2	7	6	-1	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
4/8/2024 14:39	67002	STHI_T2	148	115	-33	0.2	0.19	-0.01	0.57	0.56	0	0	0	0	0	0
4/8/2024 14:39	67001	STHI_T2	561	539	-22	0.2	0.2	0	0	0	0	0	0	0	0	0
4/8/2024 14:40	67001	STHI_T2	561	539	-22	0.2	0.2	0	0	0	0	0	0	0	0	0
4/8/2024 14:40	67605	WARW_T1	46	42	-4	0.62	0.58	-0.04	-1.13	-1.18	0	0	0	0	0	0
4/8/2024 14:40	67603	WARW_T1	3	0	-3	0.57	0	-0.57	-0.13	-0.17	0	0	0	0	0	0
4/8/2024 14:40	60801	BUCK_T1	17	13	-4	0.2	0.16	-0.04	0.03	0	0	0	0	0	0	0
4/8/2024 14:40	60803	BUCK_T1	14	15	1	0.34	0.23	-0.11	0	0	0	0	0	0	0	0
4/8/2024 14:40	67002	STHI_T2	148	115	-33	0.2	0.19	-0.01	1.13	1.11	0	0	0	0	0	0
4/8/2024 14:41	60803	BUCK_T1	14	15	1	0.34	0.23	-0.11	0	0	0	0	0	0	0	0
4/8/2024 14:41	56504	ROCK_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 14:41	56501	ROCK_T2	10	11	1	0.74	0.67	-0.07	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 14:41	60801	BUCK_T1	17	13	-4	0.2	0.16	-0.04	0.05	0	0	0	0	0	0	0
4/8/2024 14:41	67603	WARW_T1	3	0	-3	0.57	0	-0.57	0	0	0	0	0	0	0	0
4/8/2024 14:41	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 14:41	67605	WARW_T1	46	42	-4	0.62	0.58	-0.04	-1.13	-1.18	0	0	0	0	0	0
4/8/2024 14:42	10801	CHHI_T1	8	7	-1	0.74	0.37	-0.37	-1.08	-1.09	1	1	0	900	900	0
4/8/2024 14:42	67603	WARW_T1	3	0	-3	0.57	0	-0.57	0	0	0	0	0	0	0	0
4/8/2024 14:42	67605	WARW_T1	46	42	-4	0.62	0.58	-0.04	-1.13	-1.18	0	0	0	0	0	0
4/8/2024 14:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 14:43	59302	MCAL_T1	0	0	0	0	0	0	-0.35	-0.33	1	1	0	600	600	0
4/8/2024 14:43	56504	ROCK_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 14:43	59301	MCAL_T1	3	5	2	0.27	0.36	0.09	0	0	0	0	0	0	0	0
4/8/2024 14:43	10801	CHHI_T1	8	7	-1	0.74	0.37	-0.37	-1.08	-1.09	1	1	0	900	900	0
4/8/2024 14:43	67605	WARW_T1	46	42	-4	0.62	0.58	-0.04	-1.13	-1.18	0	0	0	0	0	0
4/8/2024 14:43	56501	ROCK_T2	10	11	1	0.74	0.67	-0.07	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 14:43	67603	WARW_T1	3	0	-3	0.57	0	-0.57	0	0	0	0	0	0	0	0
4/8/2024 14:44	54504	ENOL_T2	1	2	1	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
4/8/2024 14:44	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
4/8/2024 14:44	20401	ASHF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 14:44	20403	ASHF_T2	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
4/8/2024 14:44	57401	SPAN_T1	4	10	6	0.63	0.36	-0.27	-0.94	-1	1	1	0	600	600	0
4/8/2024 14:44	54502	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/8/2024 14:44	54505	ENOL_T2	3	1	-2	0.33	0.8	0.47	0	0	0	0	0	0	0	0
4/8/2024 14:44	57403	SPAN_T1	176	176	0	0.61	0.64	0.03	0	0	0	0	0	0	0	0
4/8/2024 14:44	54501	ENOL_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
4/8/2024 14:45	20401	ASHF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/8/2024 14:45	20403	ASHF_T2	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/8/2024 14:45	57403	SPAN_T1	176	170	-6	0.63	0.54	-0.09	-0.09	-0.07	0	0	0	0	0	0
4/8/2024 14:45	63201	MGTN_T2	0	0	0	0	0	0	0.26	0.15	1	1	0	600	600	0
4/8/2024 14:45	57401	SPAN_T1	8	4	-4	0.38	0.55	0.17	-1.88	-2.01	2	2	0	1200	1200	0
4/8/2024 14:46	20403	ASHF_T2	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
4/8/2024 14:46	20601	GRWO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/8/2024 14:46	64801	MONE_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
4/8/2024 14:46	67605	WARW_T1	42	38	-4	0.57	0.61	0.04	-1.13	-1.18	0	0	0	0	0	0
4/8/2024 14:46	60801	BUCK_T1	11	11	0	0.17	0.11	-0.06	0.03	0	0	0	0	0	0	0
4/8/2024 14:46	20401	ASHF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/8/2024 14:46	64802	MONE_T2	68	13	-55	0.12	0.1	-0.02	0.1	0.08	0	0	0	0	0	0
4/8/2024 14:46	60803	BUCK_T1	13	15	2	0.22	0.19	-0.03	0	0	0	0	0	0	0	0
4/8/2024 14:47	11805	FRAN_T1	7	4	-3	0.36	0.35	-0.01	0	0	0	0	0	0	0	0
4/8/2024 14:47	11804	FRAN_T1	7	2	-5	0.63	0.3	-0.33	0.81	0.74	0	0	0	0	0	0
4/8/2024 14:47	26401	INOR_T1	1	1	0	8	7.9	-0.1	0.84	0.76	0	0	0	0	0	0
4/8/2024 14:47	42001	MNVL_T2	1	1	0	0.1	0.2	0.1	-0.04	-0.05	0	0	0	0	0	0
4/8/2024 14:47	42002	MNVL_T2	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
4/8/2024 14:47	57403	SPAN_T1	176	170	-6	0.63	0.54	-0.09	-0.09	-0.07	0	0	0	0	0	0
4/8/2024 14:47	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.75	1	1	0	900	900	0
4/8/2024 14:47	57401	SPAN_T1	8	4	-4	0.38	0.55	0.17	-0.94	-1	1	1	0	600	600	0
4/8/2024 14:48	55002	NEWP_T1	11	6	-5	1.24	1.52	0.28	-0.5	-0.54	0	0	0	0	0	0
4/8/2024 14:48	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 14:48	65005	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 14:48	41901	REED_T1	9	9	0	0.29	0.43	0.14	0	0	0	0	0	0	0	0
4/8/2024 14:48	20401	ASHF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/8/2024 14:48	64902	MILL_T2	0	0	0	0	0	0	-1.48	-1.5	2	2	0	1800	1800	0
4/8/2024 14:48	63201	MGTN_T2	0	0	0	0	0	0	0.51	0.3	2	2	0	1200	1200	0
4/8/2024 14:48	41902	REED_T1	0	0	0	0	0	0	1.1	1.09	0	0	0	0	0	0
4/8/2024 14:48	64203	KINZ_T1	0	0	0	0	0	0	1.45	1.27	1	1	0	600	600	0
4/8/2024 14:48	55001	NEWP_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 14:48	65004	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 14:48	64305	LINC_T1	0	0	0	0	0	0	-0.01	-0.17	0	0	0	0	0	0
4/8/2024 14:48	64204	KINZ_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
4/8/2024 14:48	65003	NEFF_T2	6	6	0	0.37	0.23	-0.14	0	0	0	0	0	0	0	0
4/8/2024 14:48	20403	ASHF_T2	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
4/8/2024 14:48	57401	SPAN_T1	8	4	-4	0.38	0.55	0.17	0	0	0	0	0	0	0	0
4/8/2024 14:48	57403	SPAN_T1	176	170	-6	0.63	0.54	-0.09	-0.18	-0.13	0	0	0	0	0	0
4/8/2024 14:48	65001	NEFF_T2	11	5	-6	0.12	0.1	-0.02	-0.58	-0.62	1	1	0	1200	1200	0
4/8/2024 14:49	41902	REED_T1	0	0	0	0	0	0	1.1	1.09	0	0	0	0	0	0
4/8/2024 14:49	57401	SPAN_T1	8	4	-4	0.38	0.55	0.17	0	0	0	0	0	0	0	0
4/8/2024 14:49	63201	MGTN_T2	0	0	0	0	0	0	0.51	0.3	2	2	0	1200	1200	0
4/8/2024 14:49	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.75	1	1	0	900	900	0
4/8/2024 14:49	57403	SPAN_T1	176	170	-6	0.63	0.54	-0.09	-0.09	-0.07	0	0	0	0	0	0
4/8/2024 14:49	41901	REED_T1	9	9	0	0.29	0.43	0.14	0	0	0	0	0	0	0	0
4/8/2024 14:51	15603	NSTR_T2	1	0	-1	0.1	0	-0.1	-0.64	-0.64	0	0	0	0	0	0
4/8/2024 14:51	15601	NSTR_T2	3	0	-3	1.13	1.47	0.34	0	0	0	0	0	0	0	0
4/8/2024 14:52	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
4/8/2024 14:52	41902	REED_T1	0	0	0	0	0	0	1.1	1.09	0	0	0	0	0	0
4/8/2024 14:52	56501	ROCK_T2	11	9	-2	0.65	0.66	0.01	0	0	0	0	0	0	0	0
4/8/2024 14:52	41901	REED_T1	9	9	0	0.29	0.43	0.14	0	0	0	0	0	0	0	0
4/8/2024 14:53	58401	MORO_T1	0	0	0	0	0	0	-0.89	-0.96	1	1	0	600	600	0
4/8/2024 14:53	64305	LINC_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
4/8/2024 14:53	56501	ROCK_T2	11	9	-2	0.65	0.66	0.01	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 14:54	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.75	1	1	0	900	900	0
4/8/2024 14:54	45402	WBLO_T2	78	29	-49	0.3	0.23	-0.07	-0.92	-0.93	0	0	0	0	0	0
4/8/2024 14:55	46206	DANV_T2	0	0	0	0	0	0	1.77	1.79	1	1	0	1200	1200	0
4/8/2024 14:56	26002	WDAM_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/8/2024 14:56	26001	WDAM_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
4/8/2024 14:57	28704	HAML_T2	1	6	5	1	0.28	-0.72	0	0	0	0	0	0	0	0
4/8/2024 14:57	28702	HAML_T2	1	1	0	0.2	0.8	0.6	0.17	0.16	0	0	0	0	0	0
4/8/2024 14:57	26002	WDAM_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/8/2024 14:57	26001	WDAM_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
4/8/2024 14:57	28703	HAML_T2	3	3	0	0.83	1.23	0.4	0	0	0	0	0	0	0	0
4/8/2024 14:58	52402	GRPA_T2	9	6	-3	0.88	1.13	0.25	-1.04	-1.03	0	0	0	0	0	0
4/8/2024 14:58	52403	GRPA_T2	5	3	-2	0.26	0.1	-0.16	0	0	0	0	0	0	0	0
4/8/2024 14:58	52401	GRPA_T2	27	4	-23	0.16	0.25	0.09	-0.63	-0.64	0	0	0	0	0	0
4/8/2024 14:58	56501	ROCK_T2	11	9	-2	0.65	0.66	0.01	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 14:59	52402	GRPA_T2	9	6	-3	0.88	1.13	0.25	0	0	0	0	0	0	0	0
4/8/2024 14:59	52403	GRPA_T2	5	3	-2	0.26	0.1	-0.16	0.14	0.16	0	0	0	0	0	0
4/8/2024 14:59	64305	LINC_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
4/8/2024 14:59	52401	GRPA_T2	27	4	-23	0.16	0.25	0.09	0	0	0	0	0	0	0	0
4/8/2024 14:59	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
4/8/2024 15:00	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
4/8/2024 15:00	46203	DANV_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
4/8/2024 15:00	20401	ASHF_T2	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
4/8/2024 15:01	28704	HAML_T2	1	6	5	0.7	0.28	-0.42	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 15:01	52403	GRPA_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 15:01	52401	GRPA_T2	4	2	-2	0.25	0.2	-0.05	-0.63	-0.64	0	0	0	0	0	0
4/8/2024 15:01	52402	GRPA_T2	6	5	-1	1.1	1.3	0.2	0	0	0	0	0	0	0	0
4/8/2024 15:01	28702	HAML_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/8/2024 15:01	28703	HAML_T2	3	3	0	0.83	1.27	0.44	0	0	0	0	0	0	0	0
4/8/2024 15:02	40101	HUNT_T2	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
4/8/2024 15:02	57401	SPAN_T1	4	2	-2	0.55	0.65	0.1	-1	-1.01	1	1	0	600	600	0
4/8/2024 15:02	46203	DANV_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
4/8/2024 15:02	57403	SPAN_T1	170	169	-1	0.54	0.35	-0.19	0	0	0	0	0	0	0	0
4/8/2024 15:03	64305	LINC_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
4/8/2024 15:04	42802	SELI_T1	0	0	0	0	0	0	-0.89	-0.9	1	1	0	900	900	0
4/8/2024 15:04	42903	MIDD_T2	2	2	0	1.05	0.8	-0.25	0	0	0	0	0	0	0	0
4/8/2024 15:04	20401	ASHF_T2	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
4/8/2024 15:04	42902	MIDD_T2	2	1	-1	0.4	0.3	-0.1	-0.32	-0.37	0	0	0	0	0	0
4/8/2024 15:05	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.75	1	1	0	900	900	0
4/8/2024 15:06	42802	SELI_T1	0	0	0	0	0	0	-0.89	-0.9	1	1	0	900	900	0
4/8/2024 15:06	52401	GRPA_T2	4	2	-2	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/8/2024 15:06	52402	GRPA_T2	6	5	-1	1.1	1.3	0.2	-1.04	-1.03	0	0	0	0	0	0
4/8/2024 15:06	52403	GRPA_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 15:07	42802	SELI_T1	0	0	0	0	0	0	-1.77	-1.79	2	2	0	1800	1800	0
4/8/2024 15:09	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 15:09	56501	ROCK_T2	9	9	0	0.66	0.34	-0.32	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 15:10	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.79	1	1	0	900	900	0
4/8/2024 15:10	10702	CATA_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/8/2024 15:10	10705	CATA_T2	0	0	0	0	0	0	-1.07	-1.05	1	1	0	900	900	0
4/8/2024 15:10	54505	ENOL_T2	1	1	0	0.7	1	0.3	-1.43	-1.42	1	1	0	600	600	0
4/8/2024 15:10	54502	ENOL_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
4/8/2024 15:10	54501	ENOL_T2	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
4/8/2024 15:10	54504	ENOL_T2	0	0	0	0	0	0	-1.03	-1.04	1	1	0	600	600	0
4/8/2024 15:11	60101	COCA_T1	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
4/8/2024 15:12	54502	ENOL_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
4/8/2024 15:12	54505	ENOL_T2	1	1	0	0.7	1	0.3	-2.86	-2.83	2	2	0	1200	1200	0
4/8/2024 15:13	40101	HUNT_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
4/8/2024 15:14	60101	COCA_T1	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
4/8/2024 15:14	56501	ROCK_T2	9	9	0	0.66	0.34	-0.32	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 15:14	54502	ENOL_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
4/8/2024 15:14	54505	ENOL_T2	1	1	0	0.7	1	0.3	-1.43	-1.42	1	1	0	600	600	0
4/8/2024 15:15	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.79	1	1	0	900	900	0
4/8/2024 15:16	40902	JESH_T1	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
4/8/2024 15:17	20403	ASHF_T2	0	0	0	0	0	0	-1.36	0.92	0	0	0	0	0	0
4/8/2024 15:18	54206	PENN_T2	30	40	10	0.11	0.22	0.11	0	0	0	0	0	0	0	0
4/8/2024 15:18	54202	PENN_T2	4	103	99	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/8/2024 15:18	54204	PENN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 15:19	54202	PENN_T2	4	103	99	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/8/2024 15:19	54206	PENN_T2	30	40	10	0.11	0.22	0.11	0	0	0	0	0	0	0	0
4/8/2024 15:19	54204	PENN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 15:20	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.79	1	1	0	900	900	0
4/8/2024 15:23	43105	SMIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/8/2024 15:23	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 15:23	43103	SMIL_T2	15	17	2	0.33	0.61	0.28	0	0	0	0	0	0	0	0
4/8/2024 15:23	66703	STRA_T1	0	0	0	0	0	0	-0.37	-0.33	0	0	0	0	0	0
4/8/2024 15:23	43104	SMIL_T2	0	0	0	0	0	0	-0.87	-0.89	1	1	0	300	300	0
4/8/2024 15:23	43102	SMIL_T2	6	6	0	0.47	0.37	-0.1	0	0	0	0	0	0	0	0
4/8/2024 15:24	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 15:24	13302	ORVI_T2	0	21	21	0	0.22	0.22	0.84	0.86	0	0	0	0	0	0
4/8/2024 15:25	64101	REFR_T1	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
4/8/2024 15:25	56501	ROCK_T2	9	9	0	0.34	0.32	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 15:25	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 15:26	64101	REFR_T1	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
4/8/2024 15:26	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 15:27	52402	GRPA_T2	5	5	0	1.3	1.12	-0.18	0	0	0	0	0	0	0	0
4/8/2024 15:27	52403	GRPA_T2	0	0	0	0	0	0	0.06	0.13	0	0	0	0	0	0
4/8/2024 15:27	52401	GRPA_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/8/2024 15:27	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 15:29	63804	HEMP_T1	1	6	5	6.8	1.12	-5.68	2.37	-0.43	0	0	0	0	0	0
4/8/2024 15:29	63801	HEMP_T1	0	19	19	0	0.16	0.16	0	0	0	0	0	0	0	0
4/8/2024 15:29	63802	HEMP_T1	0	138	138	0	0.13	0.13	0	0	0	0	0	0	0	0
4/8/2024 15:29	63803	HEMP_T1	0	178	178	0	0.15	0.15	0	0	0	0	0	0	0	0
4/8/2024 15:30	63804	HEMP_T1	1	6	5	6.6	1.12	-5.48	1.18	-0.22	0	0	0	0	0	0
4/8/2024 15:30	60602	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 15:30	56501	ROCK_T2	4	9	5	0.33	0.54	0.21	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 15:30	63802	HEMP_T1	0	139	139	0	0.13	0.13	0	0	0	0	0	0	0	0
4/8/2024 15:30	63803	HEMP_T1	2	179	177	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/8/2024 15:30	47001	HUGH_T2	0	0	0	0	0	0	-0.24	-0.2	0	0	0	0	0	0
4/8/2024 15:30	63801	HEMP_T1	0	19	19	0	0.21	0.21	0	0	0	0	0	0	0	0
4/8/2024 15:31	63803	HEMP_T1	2	179	177	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/8/2024 15:31	47001	HUGH_T2	0	0	0	0	0	0	-0.24	-0.2	0	0	0	0	0	0
4/8/2024 15:31	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.77	1	1	0	900	900	0
4/8/2024 15:31	63804	HEMP_T1	1	6	5	6.6	1.12	-5.48	1.18	-0.22	0	0	0	0	0	0
4/8/2024 15:31	63802	HEMP_T1	0	139	139	0	0.13	0.13	0.11	0.16	0	0	0	0	0	0
4/8/2024 15:31	63801	HEMP_T1	0	19	19	0	0.21	0.21	0	0	0	0	0	0	0	0
4/8/2024 15:32	63804	HEMP_T1	1	6	5	6.6	1.12	-5.48	1.18	-0.22	0	0	0	0	0	0
4/8/2024 15:32	63803	HEMP_T1	2	179	177	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/8/2024 15:32	63801	HEMP_T1	0	19	19	0	0.21	0.21	0	0	0	0	0	0	0	0
4/8/2024 15:32	63802	HEMP_T1	0	139	139	0	0.13	0.13	0.11	0.16	0	0	0	0	0	0
4/8/2024 15:35	59201	THOM_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/8/2024 15:35	59202	THOM_T1	0	50	50	0	0.21	0.21	0	0	0	0	0	0	0	0
4/8/2024 15:36	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.77	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/8/2024 15:40	46001	BERW_T1	0	0	0	0	0	0	0.79	0.73	0	0	0	0	0	0
4/8/2024 15:40	56501	ROCK_T2	4	9	5	0.33	0.54	0.21	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 15:41	48901	FOSP_T2	0	0	0	0	0	0	-0.44	-0.42	1	1	0	600	600	0
4/8/2024 15:43	48901	FOSP_T2	0	0	0	0	0	0	-0.88	-0.84	2	2	0	1200	1200	0
4/8/2024 15:43	45501	DERR_T2	0	0	0	0	0	0	0.53	0.43	2	2	0	1800	1800	0
4/8/2024 15:43	46001	BERW_T1	0	0	0	0	0	0	0.79	0.73	0	0	0	0	0	0
4/8/2024 15:44	46001	BERW_T1	0	0	0	0	0	0	0.79	0.73	0	0	0	0	0	0
4/8/2024 15:44	63404	HONY_T1	4	3	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/8/2024 15:44	63401	HONY_T1	0	0	0	0	0	0	0.82	0.78	0	0	0	0	0	0
4/8/2024 15:45	45003	LIME_2	1	2	1	4.3	2.5	-1.8	0	0	1	1	0	1200	1200	0
4/8/2024 15:45	45001	LIME_2	27	22	-5	0.33	0.26	-0.07	0	0	0	0	0	0	0	0
4/8/2024 15:46	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 15:46	56501	ROCK_T2	9	7	-2	0.32	0.66	0.34	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 15:47	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	900	900	0
4/8/2024 15:49	46001	BERW_T1	0	0	0	0	0	0	0.79	0.73	0	0	0	0	0	0
4/8/2024 15:51	67204	TEHI_T2	0	1	1	0	0.3	0.3	-0.16	-0.14	0	0	0	0	0	0
4/8/2024 15:52	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	900	900	0
4/8/2024 15:52	60701	BREC_T1	0	0	0	0	0	0	-0.2	-0.22	1	1	0	600	600	0
4/8/2024 15:54	67204	TEHI_T2	0	1	1	0	0.3	0.3	-0.14	-0.14	0	0	0	0	0	0
4/8/2024 15:55	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 15:55	60701	BREC_T1	0	0	0	0	0	0	-0.43	-0.35	2	2	0	1200	1200	0
4/8/2024 15:55	66703	STRA_T1	0	4	4	0	0.1	0.1	-0.36	-0.33	0	0	0	0	0	0
4/8/2024 15:56	67605	WARW_T1	36	38	2	0.56	0.71	0.15	-1.22	-1.17	0	0	0	0	0	0
4/8/2024 16:01	67605	WARW_T1	38	42	4	0.71	0.64	-0.07	-1.22	-1.17	0	0	0	0	0	0
4/8/2024 16:01	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 16:02	56501	ROCK_T2	7	10	3	0.63	0.51	-0.12	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 16:02	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 16:03	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.78	1	1	0	900	900	0
4/8/2024 16:06	54204	PENN_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/8/2024 16:06	54202	PENN_T2	272	313	41	0.16	0.23	0.07	0	0	0	0	0	0	0	0
4/8/2024 16:06	54206	PENN_T2	63	85	22	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
4/8/2024 16:07	59402	RFLD_T2	0	0	0	0	0	0	-1.53	-1.59	2	2	0	900	900	0
4/8/2024 16:07	56501	ROCK_T2	7	10	3	0.63	0.51	-0.12	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 16:07	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 16:07	40601	PIGR_T1	162	182	20	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/8/2024 16:07	40603	PIGR_T1	0	0	0	0	0	0	0.3	0.25	0	0	0	0	0	0
4/8/2024 16:08	64902	MILL_T2	0	0	0	0	0	0	-0.78	-0.79	1	1	0	900	900	0
4/8/2024 16:08	59402	RFLD_T2	0	0	0	0	0	0	-1.59	-1.63	2	2	0	900	900	0
4/8/2024 16:10	60701	BREC_T1	0	0	0	0	0	0	-0.17	-0.09	1	1	0	600	600	0
4/8/2024 16:11	67605	WARW_T1	38	42	4	0.71	0.64	-0.07	-1.17	-1.17	0	0	0	0	0	0
4/8/2024 16:11	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 16:12	41801	GOCI_T2	142	288	146	0.32	0.76	0.44	0	0	0	0	0	0	0	0
4/8/2024 16:12	41802	GOCI_T2	24	29	5	0.24	0.42	0.18	0	0	0	0	0	0	0	0
4/8/2024 16:12	46001	BERW_T1	0	0	0	0	0	0	0.68	0.57	0	0	0	0	0	0
4/8/2024 16:13	60701	BREC_T1	0	0	0	0	0	0	-0.17	-0.09	1	1	0	600	600	0
4/8/2024 16:15	46001	BERW_T1	0	0	0	0	0	0	0.68	0.57	0	0	0	0	0	0
4/8/2024 16:16	46001	BERW_T1	0	0	0	0	0	0	0.68	0.57	0	0	0	0	0	0
4/8/2024 16:16	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 16:16	67605	WARW_T1	31	44	13	0.6	0.71	0.11	-1.17	-1.17	0	0	0	0	0	0
4/8/2024 16:17	45003	LIME_2	2	2	0	2.5	2.3	-0.2	0	0	2	2	0	2400	2400	0
4/8/2024 16:18	41902	REED_T1	0	0	0	0	0	0	1.08	1.14	0	0	0	0	0	0
4/8/2024 16:18	41901	REED_T1	8	0	-8	0.19	0	-0.19	0	0	0	0	0	0	0	0
4/8/2024 16:19	60701	BREC_T1	0	0	0	0	0	0	-0.17	-0.09	1	1	0	600	600	0
4/8/2024 16:21	41901	REED_T1	8	0	-8	0.19	0	-0.19	0	0	0	0	0	0	0	0
4/8/2024 16:21	52403	GRPA_T2	7	1	-6	0.24	0.1	-0.14	0.14	0.14	0	0	0	0	0	0
4/8/2024 16:21	41902	REED_T1	0	0	0	0	0	0	1.08	1.14	0	0	0	0	0	0
4/8/2024 16:21	52401	GRPA_T2	2	0	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/8/2024 16:21	52402	GRPA_T2	5	6	1	1.22	1.27	0.05	0	0	0	0	0	0	0	0
4/8/2024 16:21	46001	BERW_T1	0	0	0	0	0	0	0.68	0.57	0	0	0	0	0	0
4/8/2024 16:22	41902	REED_T1	0	0	0	0	0	0	1.08	1.14	0	0	0	0	0	0
4/8/2024 16:22	41901	REED_T1	8	0	-8	0.19	0	-0.19	0	0	0	0	0	0	0	0
4/8/2024 16:23	67901	WNHO_T2	3	137	134	0.37	0.31	-0.06	-0.35	-0.23	1	1	0	900	900	0
4/8/2024 16:26	67605	WARW_T1	31	44	13	0.6	0.71	0.11	-1.17	-1.15	0	0	0	0	0	0
4/8/2024 16:26	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 16:31	67605	WARW_T1	42	44	2	0.64	0.71	0.07	-1.17	-1.15	0	0	0	0	0	0
4/8/2024 16:31	67603	WARW_T1	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
4/8/2024 16:41	67605	WARW_T1	42	44	2	0.64	0.71	0.07	-1.15	-1.12	0	0	0	0	0	0
4/8/2024 16:41	67603	WARW_T1	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
4/8/2024 16:46	67605	WARW_T1	44	42	-2	0.71	0.63	-0.08	-1.15	-1.12	0	0	0	0	0	0
4/8/2024 16:46	67603	WARW_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/8/2024 16:48	64202	KINZ_T1	25	49	24	0.27	0.31	0.04	0	0	0	0	0	0	0	0
4/8/2024 16:48	64203	KINZ_T1	1	46	45	0.1	0.21	0.11	1.41	1.02	0	0	0	0	0	0
4/8/2024 16:48	64201	KINZ_T1	4	18	14	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
4/8/2024 16:48	64204	KINZ_T1	18	37	19	0.26	0.44	0.18	0	0	0	0	0	0	0	0
4/8/2024 17:10	54505	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 17:10	54502	ENOL_T2	1	3	2	0.8	0.33	-0.47	-1.14	-1.04	1	1	0	600	600	0
4/8/2024 17:11	54505	ENOL_T2	1	1	0	1	1.2	0.2	-1.4	-1.42	1	1	0	600	600	0
4/8/2024 17:11	54502	ENOL_T2	1	3	2	0.8	0.33	-0.47	-1.14	-1.04	1	1	0	600	600	0
4/8/2024 17:11	67603	WARW_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/8/2024 17:11	67605	WARW_T1	41	35	-6	0.64	0.61	-0.03	-1.05	-1.09	0	0	0	0	0	0
4/8/2024 17:14	54502	ENOL_T2	1	3	2	0.8	0.33	-0.47	0	0	0	0	0	0	0	0
4/8/2024 17:14	54505	ENOL_T2	1	1	0	1	1.2	0.2	-1.4	-1.42	1	1	0	600	600	0
4/8/2024 17:15	54505	ENOL_T2	1	1	0	1	1.2	0.2	-2.8	-2.84	2	2	0	1200	1200	0
4/8/2024 17:15	54502	ENOL_T2	1	3	2	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
4/8/2024 17:16	67605	WARW_T1	35	27	-8	0.61	0.61	0	-1.05	-1.09	0	0	0	0	0	0
4/8/2024 17:16	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 17:36	67204	TEHI_T2	83	72	-11	0.13	0.14	0.01	0.06	0.04	0	0	0	0	0	0
4/8/2024 17:38	67204	TEHI_T2	83	72	-11	0.13	0.14	0.01	0.04	0.06	0	0	0	0	0	0
4/8/2024 20:10	60803	BUCK_T1	8	11	3	0.18	0.24	0.06	0	0	0	0	0	0	0	0
4/8/2024 20:10	60801	BUCK_T1	31	43	12	0.18	0.25	0.07	-0.19	-0.24	0	0	0	0	0	0
4/8/2024 20:11	56802	BENV_T2	1	1	0	0.4	0.5	0.1	-0.71	-0.69	0	0	0	0	0	0
4/8/2024 20:14	56802	BENV_T2	1	1	0	0.4	0.5	0.1	-2.14	-2.08	0	0	0	0	0	0
4/8/2024 20:21	52503	PROG_T2	0	0	0	0	0	0	-0.81	-0.81	1	1	0	900	900	0
4/8/2024 20:40	56802	BENV_T2	1	1	0	0.5	0.7	0.2	-0.67	-0.7	0	0	0	0	0	0
4/8/2024 20:41	56802	BENV_T2	1	1	0	0.5	0.7	0.2	-0.67	-0.7	0	0	0	0	0	0
4/8/2024 20:42	56802	BENV_T2	1	1	0	0.5	0.7	0.2	-0.67	-0.7	0	0	0	0	0	0
4/8/2024 20:44	56802	BENV_T2	1	1	0	0.5	0.7	0.2	-0.67	-0.7	0	0	0	0	0	0
4/8/2024 20:46	57403	SPAN_T1	74	169	95	0.26	0.48	0.22	0	0	0	0	0	0	0	0
4/8/2024 20:46	57401	SPAN_T1	2	2	0	0.65	0.95	0.3	-1.04	-1.05	1	1	0	600	600	0
4/8/2024 20:56	57403	SPAN_T1	74	169	95	0.26	0.48	0.22	0	0	0	0	0	0	0	0
4/8/2024 20:56	57401	SPAN_T1	2	2	0	0.65	0.95	0.3	-1.05	-1.06	1	1	0	600	600	0
4/8/2024 21:16	11801	FRAN_T2	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
4/8/2024 21:16	11803	FRAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 21:17	17002	RIRO_T2	131	321	190	0.24	0.25	0.01	0.31	0.31	0	0	0	0	0	0
4/8/2024 21:19	54701	NEBL_T1	3	4	1	0.17	0.45	0.28	0	0	1	1	0	600	600	0
4/8/2024 21:21	12701	MACU_T1	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
4/8/2024 21:22	45602	WOOL_T1	2	3	1	0.3	0.7	0.4	0.37	0.35	0	0	0	0	0	0
4/8/2024 21:22	67002	STHI_T2	134	387	253	0.14	0.18	0.04	0.52	0.52	0	0	0	0	0	0
4/8/2024 21:22	67001	STHI_T2	591	645	54	0.25	0.38	0.13	0	0	0	0	0	0	0	0
4/8/2024 21:23	15203	SFAR_T2	0	0	0	0	0	0	-1.62	-1.64	0	0	0	0	0	0
4/8/2024 21:23	59402	RFLD_T2	0	0	0	0	0	0	-0.88	-0.88	1	1	0	450	450	0
4/8/2024 21:25	67002	STHI_T2	134	387	253	0.14	0.18	0.04	0.52	0.52	0	0	0	0	0	0
4/8/2024 21:25	26401	INOR_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
4/8/2024 21:25	67001	STHI_T2	591	645	54	0.25	0.38	0.13	0	0	0	0	0	0	0	0
4/8/2024 21:25	20603	GRWO_T2	2	6	4	0.1	0.1	0	0.3	0.33	0	0	0	0	0	0
4/8/2024 21:25	13302	ORVI_T2	11	18	7	0.12	0.22	0.1	0.79	0.7	0	0	0	0	0	0
4/8/2024 21:26	67001	STHI_T2	591	645	54	0.25	0.38	0.13	0	0	0	0	0	0	0	0
4/8/2024 21:26	67002	STHI_T2	134	387	253	0.14	0.18	0.04	0.52	0.52	0	0	0	0	0	0
4/8/2024 21:26	13302	ORVI_T2	11	18	7	0.12	0.22	0.1	0.79	0.7	0	0	0	0	0	0
4/8/2024 21:27	63201	MGTN_T2	0	0	0	0	0	0	0.98	0.98	1	1	0	600	600	0
4/8/2024 21:27	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 21:27	20401	ASHF_T2	0	1	1	0	0.1	0.1	-0.41	-0.43	0	0	0	0	0	0
4/8/2024 21:27	60101	COCA_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
4/8/2024 21:27	20403	ASHF_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
4/8/2024 21:28	28702	HAML_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 21:28	48901	FOSP_T2	0	0	0	0	0	0	-0.4	-0.39	1	1	0	600	600	0
4/8/2024 21:28	67001	STHI_T2	591	645	54	0.25	0.38	0.13	0	0	0	0	0	0	0	0
4/8/2024 21:28	28703	HAML_T2	3	3	0	0.53	0.97	0.44	0	0	0	0	0	0	0	0
4/8/2024 21:28	28704	HAML_T2	1	4	3	1.1	0.4	-0.7	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 21:28	67002	STHI_T2	134	387	253	0.14	0.18	0.04	0	0	0	0	0	0	0	0
4/8/2024 21:29	15603	NSTR_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
4/8/2024 21:29	60701	BREC_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
4/8/2024 21:29	12701	MACU_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
4/8/2024 21:29	11804	FRAN_T1	0	0	0	0	0	0	0.48	0.51	0	0	0	0	0	0
4/8/2024 21:29	15601	NSTR_T2	3	3	0	0.87	1.2	0.33	0	0	0	0	0	0	0	0
4/8/2024 21:29	26001	WDAM_T1	2	14	12	0.35	0.24	-0.11	0	0	0	0	0	0	0	0
4/8/2024 21:29	67001	STHI_T2	591	645	54	0.25	0.38	0.13	0	0	0	0	0	0	0	0
4/8/2024 21:29	67002	STHI_T2	134	387	253	0.14	0.18	0.04	1.04	1.04	0	0	0	0	0	0
4/8/2024 21:29	43202	MVIL_T2	72	111	39	0.48	0.58	0.1	-0.73	-0.74	0	0	0	0	0	0
4/8/2024 21:29	26001	WDAM_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
4/8/2024 21:30	64702	UTI_T2	0	0	0	0	0	0	-1.43	-1.34	0	0	0	0	0	0
4/8/2024 21:30	20403	ASHF_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
4/8/2024 21:30	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 21:31	46301	ROHR_T1	140	243	103	0.24	0.34	0.1	0.13	0.16	0	0	0	0	0	0
4/8/2024 21:31	28703	HAML_T2	3	3	0	0.77	0.97	0.2	0	0	0	0	0	0	0	0
4/8/2024 21:31	28704	HAML_T2	1	4	3	1.3	0.48	-0.82	0	0	0	0	0	0	0	0
4/8/2024 21:31	27502	WEIS_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
4/8/2024 21:31	13302	ORVI_T2	11	20	9	0.19	0.27	0.08	0.79	0.7	0	0	0	0	0	0
4/8/2024 21:31	65001	NEFF_T2	237	238	1	0.37	0.37	0	0	0	0	0	0	0	0	0
4/8/2024 21:31	46302	ROHR_T1	9	123	114	1.06	0.28	-0.78	0	0	0	0	0	0	0	0
4/8/2024 21:31	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 21:31	60101	COCA_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
4/8/2024 21:31	60701	BREC_T1	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
4/8/2024 21:31	42001	MNVL_T2	0	6	6	0	0.18	0.18	-0.05	-0.05	0	0	0	0	0	0
4/8/2024 21:31	42002	MNVL_T2	1	1	0	3.9	3.9	0	0	0	0	0	0	0	0	0
4/8/2024 21:31	28702	HAML_T2	0	1	1	0	0.2	0.2	0.15	0.17	0	0	0	0	0	0
4/8/2024 21:31	15001	BLMO_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
4/8/2024 21:31	66504	SMAN_T2	0	0	0	0	0	0	-1.29	-1.42	0	0	0	0	0	0
4/8/2024 21:31	65003	NEFF_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/8/2024 21:31	65004	NEFF_T2	0	0	0	0	0	0	-0.55	-0.58	0	0	0	0	0	0
4/8/2024 21:32	67605	WARW_T1	45	102	57	0.64	0.58	-0.06	-1.24	-1.25	0	0	0	0	0	0
4/8/2024 21:32	64201	KINZ_T1	29	80	51	0.33	0.44	0.11	0	0	0	0	0	0	0	0
4/8/2024 21:32	46302	ROHR_T1	9	123	114	1.06	0.28	-0.78	0.15	0.12	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/8/2024 21:32	60101	COCA_T1	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
4/8/2024 21:32	64203	KINZ_T1	68	215	147	0.2	0.35	0.15	0.14	0.14	0	0	0	0	0	0
4/8/2024 21:32	60902	DONG_T2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
4/8/2024 21:32	14404	SSLA_T1	1	1	0	5.2	5.7	0.5	0	0	0	0	0	0	0	0
4/8/2024 21:32	24902	WHHA_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/8/2024 21:32	46301	ROHR_T1	140	243	103	0.24	0.34	0.1	0	0	0	0	0	0	0	0
4/8/2024 21:32	14403	SSLA_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
4/8/2024 21:32	63201	MGTN_T2	0	0	0	0	0	0	0.98	0.98	1	1	0	600	600	0
4/8/2024 21:32	64204	KINZ_T1	38	158	120	0.41	0.31	-0.1	0	0	0	0	0	0	0	0
4/8/2024 21:32	10801	CHHI_T1	0	0	0	0	0	0	-1.05	-1.06	1	1	0	900	900	0
4/8/2024 21:32	64202	KINZ_T1	39	75	36	0.34	0.43	0.09	0	0	0	0	0	0	0	0
4/8/2024 21:33	67001	STHI_T2	616	787	171	0.32	0.39	0.07	0	0	0	0	0	0	0	0
4/8/2024 21:33	63404	HONY_T1	0	87	87	0	0.25	0.25	0	0	0	0	0	0	0	0
4/8/2024 21:33	10702	CATA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/8/2024 21:33	41504	FAIR_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
4/8/2024 21:33	67002	STHI_T2	277	506	229	0.17	0.21	0.04	0.52	0.52	0	0	0	0	0	0
4/8/2024 21:33	63201	MGTN_T2	0	0	0	0	0	0	0.98	0.98	1	1	0	600	600	0
4/8/2024 21:33	45501	DERR_T2	0	1	1	0	0.5	0.5	0	-0.19	2	2	0	1800	1800	0
4/8/2024 21:33	11804	FRAN_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 21:33	64305	LINC_T1	2	3	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
4/8/2024 21:33	25503	MADI_T1	0	99	99	0	0.18	0.18	-1.06	-1.07	0	0	0	0	0	0
4/8/2024 21:33	63401	HONY_T1	0	0	0	0	0	0	0.55	0.62	0	0	0	0	0	0
4/8/2024 21:33	67204	TEHI_T2	115	10	-105	0.31	0.1	-0.21	0.02	0.01	0	0	0	0	0	0
4/8/2024 21:33	10705	CATA_T2	0	0	0	0	0	0	-1.06	-1.09	1	1	0	900	900	0
4/8/2024 21:33	11805	FRAN_T1	0	0	0	0	0	0	-1.37	-1.38	1	1	0	1200	1200	0
4/8/2024 21:33	13302	ORVI_T2	11	20	9	0.19	0.27	0.08	0.79	0.7	0	0	0	0	0	0
4/8/2024 21:33	16402	MOPO_T1	0	0	0	0	0	0	0.02	0.05	0	0	0	0	0	0
4/8/2024 21:33	10801	CHHI_T1	0	0	0	0	0	0	-1.05	-1.06	1	1	0	900	900	0
4/8/2024 21:33	64301	LINC_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
4/8/2024 21:33	67605	WARW_T1	45	102	57	0.64	0.58	-0.06	-1.24	-1.25	0	0	0	0	0	0
4/8/2024 21:34	46302	ROHR_T1	9	123	114	1.06	0.28	-0.78	0	0	0	0	0	0	0	0
4/8/2024 21:34	41502	FAIR_T2	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
4/8/2024 21:34	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 21:34	65001	NEFF_T2	237	238	1	0.37	0.37	0	-1.01	-1.03	1	1	0	1200	1200	0
4/8/2024 21:34	20403	ASHF_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
4/8/2024 21:34	67001	STHI_T2	616	787	171	0.32	0.39	0.07	0	0	0	0	0	0	0	0
4/8/2024 21:34	65003	NEFF_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/8/2024 21:34	60801	BUCK_T1	63	78	15	0.37	0.46	0.09	-0.25	-0.27	0	0	0	0	0	0
4/8/2024 21:34	48901	FOSP_T2	0	0	0	0	0	0	-0.4	-0.39	1	1	0	600	600	0
4/8/2024 21:34	46301	ROHR_T1	140	243	103	0.24	0.34	0.1	0.13	0.16	0	0	0	0	0	0
4/8/2024 21:34	67002	STHI_T2	277	506	229	0.17	0.21	0.04	0.52	0.52	0	0	0	0	0	0
4/8/2024 21:34	60803	BUCK_T1	25	30	5	0.33	0.42	0.09	0	0	0	0	0	0	0	0
4/8/2024 21:34	24902	WHHA_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/8/2024 21:35	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0.74	0.69	0	0	0	0	0	0
4/8/2024 21:35	67605	WARW_T1	45	102	57	0.64	0.58	-0.06	0	0	0	0	0	0	0	0
4/8/2024 21:35	67204	TEHI_T2	115	10	-105	0.31	0.1	-0.21	0.02	0.01	0	0	0	0	0	0
4/8/2024 21:35	67001	STHI_T2	616	787	171	0.32	0.39	0.07	0	0	0	0	0	0	0	0
4/8/2024 21:35	46203	DANV_T2	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
4/8/2024 21:35	63803	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 21:35	26001	WDAM_T1	0	1	1	0	0.1	0.1	-0.88	-0.84	0	0	0	0	0	0
4/8/2024 21:35	60605	NCOL_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
4/8/2024 21:35	60701	BREC_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
4/8/2024 21:35	67002	STHI_T2	277	506	229	0.17	0.21	0.04	0.52	0.52	0	0	0	0	0	0
4/8/2024 21:35	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 21:35	67603	WARW_T1	0	0	0	0	0	0	-0.3	-0.34	0	0	0	0	0	0
4/8/2024 21:35	26002	WDAM_T1	4	19	15	0.33	0.22	-0.11	0	0	0	0	0	0	0	0
4/8/2024 21:35	13105	NHAM_T2	0	0	0	0	0	0	-0.75	-0.77	1	1	0	1200	1200	0
4/8/2024 21:36	15001	BLMO_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
4/8/2024 21:36	46001	BERW_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
4/8/2024 21:36	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0.74	0.69	0	0	0	0	0	0
4/8/2024 21:36	67502	WEWI_T2	0	0	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
4/8/2024 21:36	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 21:36	64202	KINZ_T1	39	75	36	0.34	0.43	0.09	0	0	0	0	0	0	0	0
4/8/2024 21:36	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 21:36	44302	BEAV_T2	0	18	18	0	0.16	0.16	0	0	0	0	0	0	0	0
4/8/2024 21:36	64203	KINZ_T1	68	215	147	0.2	0.35	0.15	0.14	0.14	0	0	0	0	0	0
4/8/2024 21:36	44301	BEAV_T2	0	0	0	0	0	0	0.38	0.38	1	1	0	600	600	0
4/8/2024 21:36	63803	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 21:36	64201	KINZ_T1	29	80	51	0.33	0.44	0.11	0	0	0	0	0	0	0	0
4/8/2024 21:36	14403	SSLA_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
4/8/2024 21:36	44601	SALE_T2	0	1	1	0	0.1	0.1	-0.11	-0.09	0	0	0	0	0	0
4/8/2024 21:36	46004	BERW_T2	0	0	0	0	0	0	-0.48	-0.43	0	0	0	0	0	0
4/8/2024 21:36	14404	SSLA_T1	1	1	0	5.2	5.7	0.5	0	0	0	0	0	0	0	0
4/8/2024 21:36	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 21:36	64204	KINZ_T1	38	158	120	0.41	0.31	-0.1	0	0	0	0	0	0	0	0
4/8/2024 21:37	40101	HUNT_T2	0	0	0	0	0	0	-0.42	-0.46	0	0	0	0	0	0
4/8/2024 21:37	59101	WALK_T2	11	70	59	0.15	0.39	0.24	-0.79	-0.77	0	0	0	0	0	0
4/8/2024 21:37	41802	GOCI_T2	20	23	3	0.35	0.41	0.06	0	0	0	0	0	0	0	0
4/8/2024 21:37	42902	MIDD_T2	4	78	74	0.13	0.25	0.12	-0.37	-0.43	0	0	0	0	0	0
4/8/2024 21:37	40603	PIGR_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
4/8/2024 21:37	46001	BERW_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
4/8/2024 21:37	52503	PROG_T2	0	0	0	0	0	0	-0.79	-0.79	1	1	0	900	900	0
4/8/2024 21:37	59102	WALK_T2	61	86	25	0.25	0.64	0.39	0	0	0	0	0	0	0	0
4/8/2024 21:37	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.86	1	1	0	900	900	0
4/8/2024 21:37	41801	GOCI_T2	131	237	106	0.28	0.39	0.11	0	0	0	0	0	0	0	0
4/8/2024 21:37	44302	BEAV_T2	0	18	18	0	0.16	0.16	0.16	0.16	0	0	0	0	0	0
4/8/2024 21:37	42903	MIDD_T2	2	2	0	1.75	2.4	0.65	0	0	0	0	0	0	0	0
4/8/2024 21:37	42201	SHEN_T2	0	0	0	0	0	0	-0.02	-0.01	1	1	0	600	600	0
4/8/2024 21:37	67501	WEWI_T1	0	0	0	0	0	0	-1.56	-1.5	0	0	0	0	0	0
4/8/2024 21:37	42901	MIDD_T2	1	109	108	0.1	0.22	0.12	0	0	0	0	0	0	0	0
4/8/2024 21:37	55002	NEWP_T1	6	7	1	1.13	1.57	0.44	-0.3	-0.3	0	0	0	0	0	0
4/8/2024 21:37	44601	SALE_T2	0	1	1	0	0.1	0.1	-0.11	-0.09	0	0	0	0	0	0
4/8/2024 21:37	63602	LETO_T1	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
4/8/2024 21:37	63201	MGTN_T2	0	0	0	0	0	0	0.98	0.98	1	1	0	600	600	0
4/8/2024 21:37	55003	NEWP_T2	8	14	6	0.19	0.65	0.46	-0.27	-0.28	0	0	0	0	0	0
4/8/2024 21:37	67502	WEWI_T2	0	0	0	0	0	0	-1.8	-1.89	0	0	0	0	0	0
4/8/2024 21:37	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 21:37	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 21:37	48901	FOSP_T2	0	0	0	0	0	0	-0.4	-0.39	1	1	0	600	600	0
4/8/2024 21:37	40601	PIGR_T1	188	213	25	0.31	0.37	0.06	0	0	0	0	0	0	0	0
4/8/2024 21:38	40201	BEGA_T2	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
4/8/2024 21:38	57103	SPHI_T2	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
4/8/2024 21:38	43103	SMIL_T2	19	22	3	0.32	0.95	0.63	0	0	0	0	0	0	0	0
4/8/2024 21:38	64203	KINZ_T1	68	215	147	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/8/2024 21:38	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 21:38	57106	SPHI_T2	3	3	0	1.83	1.83	0	0	0	0	0	0	0	0	0
4/8/2024 21:38	64902	MILL_T2	0	0	0	0	0	0	-1.72	-1.63	2	2	0	1800	1800	0
4/8/2024 21:38	63201	MGTN_T2	0	0	0	0	0	0	0.98	1.01	1	1	0	600	600	0
4/8/2024 21:38	64204	KINZ_T1	38	158	120	0.41	0.31	-0.1	0	0	0	0	0	0	0	0
4/8/2024 21:38	59302	MCAL_T1	1	1	0	0.5	1.2	0.7	-0.36	-0.34	1	1	0	600	600	0
4/8/2024 21:38	64202	KINZ_T1	39	75	36	0.34	0.43	0.09	0.52	0.52	0	0	0	0	0	0
4/8/2024 21:38	57104	SPHI_T2	1	2	1	7.6	2.2	-5.4	0	0	0	0	0	0	0	0
4/8/2024 21:38	57101	SPHI_T2	4	6	2	0.43	0.67	0.24	0	0	0	0	0	0	0	0
4/8/2024 21:38	64201	KINZ_T1	29	80	51	0.33	0.44	0.11	0	0	0	0	0	0	0	0
4/8/2024 21:38	43101	SMIL_T2	0	0	0	0	0	0	-0.79	-0.82	0	0	0	0	0	0
4/8/2024 21:38	59402	RFLD_T2	0	0	0	0	0	0	-0.88	-0.88	1	1	0	450	450	0
4/8/2024 21:38	60701	BREC_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
4/8/2024 21:38	59301	MCAL_T1	10	79	69	0.25	0.41	0.16	0	0	0	0	0	0	0	0
4/8/2024 21:38	65802	RTWN_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
4/8/2024 21:38	43102	SMIL_T2	8	9	1	0.9	0.9	0	0	0	0	0	0	0	0	0
4/8/2024 21:38	43105	SMIL_T2	7	22	15	0.11	0.25	0.14	0	0	0	0	0	0	0	0
4/8/2024 21:38	42201	SHEN_T2	0	0	0	0	0	0	-0.01	-0.04	1	1	0	600	600	0
4/8/2024 21:38	20401	ASHF_T2	0	1	1	0	0.1	0.1	-0.43	-0.44	0	0	0	0	0	0
4/8/2024 21:39	59402	RFLD_T2	0	0	0	0	0	0	-0.88	-0.88	1	1	0	450	450	0
4/8/2024 21:39	67002	STHI_T2	277	506	229	0.17	0.21	0.04	0.52	0.45	0	0	0	0	0	0
4/8/2024 21:39	57304	MOAL_T2	6	21	15	0.32	0.26	-0.06	-0.57	-0.59	0	0	0	0	0	0
4/8/2024 21:39	54502	ENOL_T2	2	1	-1	0.4	0.9	0.5	0	0	0	0	0	0	0	0
4/8/2024 21:39	15001	BLMO_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
4/8/2024 21:39	64305	LINC_T1	2	3	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
4/8/2024 21:39	42002	MNVL_T2	1	1	0	3.9	3.9	0	0.03	0.02	0	0	0	0	0	0
4/8/2024 21:39	50501	MECH_T1	4	4	0	1.33	1.9	0.57	0	0	0	0	0	0	0	0
4/8/2024 21:39	52006	LING_T2	3	3	0	1.1	1.33	0.23	0	0	0	0	0	0	0	0
4/8/2024 21:39	56501	ROCK_T2	6	93	87	0.57	0.22	-0.35	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 21:39	58402	MORO_T1	0	0	0	0	0	0	-0.4	0.14	2	2	0	1500	1500	0
4/8/2024 21:39	46203	DANV_T2	0	0	0	0	0	0	0.26	0.2	0	0	0	0	0	0
4/8/2024 21:39	57403	SPAN_T1	169	168	-1	0.44	0.66	0.22	0	0	0	0	0	0	0	0
4/8/2024 21:39	50504	MECH_T1	0	21	21	0	0.14	0.14	0	0	0	0	0	0	0	0
4/8/2024 21:39	45402	WBLO_T2	23	34	11	0.21	0.2	-0.01	-0.92	-0.95	0	0	0	0	0	0
4/8/2024 21:39	54501	ENOL_T2	4	4	0	0.13	0.23	0.1	0.08	0.08	0	0	0	0	0	0
4/8/2024 21:39	43201	MVIL_T2	0	1	1	0	0.3	0.3	-0.42	-0.42	0	0	0	0	0	0
4/8/2024 21:39	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 21:39	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
4/8/2024 21:39	63803	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 21:39	50502	MECH_T1	1	1	0	2.9	3.3	0.4	0	0	0	0	0	0	0	0
4/8/2024 21:39	43202	MVIL_T2	92	157	65	0.65	0.71	0.06	0	0	0	0	0	0	0	0
4/8/2024 21:39	42001	MNVL_T2	0	6	6	0	0.18	0.18	0	0	0	0	0	0	0	0
4/8/2024 21:39	60801	BUCK_T1	63	78	15	0.37	0.46	0.09	0	0	0	0	0	0	0	0
4/8/2024 21:39	52004	LING_T2	0	1	1	0	0.3	0.3	0.1	0.1	0	0	0	0	0	0
4/8/2024 21:39	46004	BERW_T2	0	0	0	0	0	0	-0.43	-0.47	0	0	0	0	0	0
4/8/2024 21:39	67001	STHI_T2	616	787	171	0.32	0.39	0.07	0	0	0	0	0	0	0	0
4/8/2024 21:39	52002	LING_T2	1	1	0	0.7	1.7	1	0	0	0	0	0	0	0	0
4/8/2024 21:39	54505	ENOL_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
4/8/2024 21:39	57303	MOAL_T2	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
4/8/2024 21:39	67501	WEWI_T1	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
4/8/2024 21:39	64101	REFR_T1	0	0	0	0	0	0	-2	-2.15	0	0	0	0	0	0
4/8/2024 21:39	63802	HEMP_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
4/8/2024 21:39	50506	MECH_T1	0	1	1	0	0.2	0.2	0.19	-0.01	0	0	0	0	0	0
4/8/2024 21:39	57401	SPAN_T1	2	90	88	1.05	0.21	-0.84	-2.71	-2.22	2	2	0	1200	1200	0
4/8/2024 21:39	64303	LINC_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
4/8/2024 21:39	60803	BUCK_T1	25	30	5	0.33	0.42	0.09	-0.59	-0.59	1	1	0	600	600	0
4/8/2024 21:40	60101	COCA_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
4/8/2024 21:40	57403	SPAN_T1	169	168	-1	0.44	0.66	0.22	0	0	0	0	0	0	0	0
4/8/2024 21:40	40901	JESH_T1	0	9	9	0	0.11	0.11	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/8/2024 21:40	57401	SPAN_T1	2	90	88	1.05	0.21	-0.84	-1.35	-1.11	1	1	0	600	600	0
4/8/2024 21:40	46001	BERW_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
4/8/2024 21:40	52403	GRPA_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/8/2024 21:40	52401	GRPA_T2	1	2	1	0.1	0.55	0.45	-0.54	-0.56	0	0	0	0	0	0
4/8/2024 21:40	52402	GRPA_T2	4	7	3	1.4	1.33	-0.07	0	0	0	0	0	0	0	0
4/8/2024 21:40	52404	GRPA_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
4/8/2024 21:40	65001	NEFF_T2	237	238	1	0.37	0.37	0	-1.03	-0.94	1	1	0	1200	1200	0
4/8/2024 21:40	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 21:40	59102	WALK_T2	61	86	25	0.25	0.64	0.39	0	0	0	0	0	0	0	0
4/8/2024 21:40	64101	REFR_T1	0	0	0	0	0	0	-1	-1.07	0	0	0	0	0	0
4/8/2024 21:40	56802	BENV_T2	1	203	202	0.2	0.45	0.25	-0.73	-0.76	0	0	0	0	0	0
4/8/2024 21:40	59101	WALK_T2	11	70	59	0.15	0.39	0.24	-0.77	-0.79	0	0	0	0	0	0
4/8/2024 21:40	40902	JESH_T1	0	13	13	0	0.11	0.11	-0.85	-0.93	0	0	0	0	0	0
4/8/2024 21:40	56501	ROCK_T2	6	93	87	0.57	0.22	-0.35	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 21:40	44302	BEAV_T2	0	18	18	0	0.16	0.16	0.16	0.17	0	0	0	0	0	0
4/8/2024 21:40	65003	NEFF_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/8/2024 21:41	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 21:41	43103	SMIL_T2	19	22	3	0.32	0.95	0.63	0	0	0	0	0	0	0	0
4/8/2024 21:41	54501	ENOL_T2	4	4	0	0.13	0.23	0.1	0.08	0.08	0	0	0	0	0	0
4/8/2024 21:41	59201	THOM_T1	13	50	37	0.23	0.44	0.21	0	0	0	0	0	0	0	0
4/8/2024 21:41	63803	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 21:41	50501	MECH_T1	4	4	0	1.33	1.9	0.57	0	0	0	0	0	0	0	0
4/8/2024 21:41	59202	THOM_T1	192	499	307	0.24	0.52	0.28	0	0	0	0	0	0	0	0
4/8/2024 21:41	43102	SMIL_T2	8	9	1	0.9	0.9	0	0	0	0	0	0	0	0	0
4/8/2024 21:41	55002	NEWP_T1	6	6	0	1.13	1.57	0.44	0	0	0	0	0	0	0	0
4/8/2024 21:41	43104	SMIL_T2	0	0	0	0	0	0	-0.87	-0.88	1	1	0	300	300	0
4/8/2024 21:41	43105	SMIL_T2	7	22	15	0.11	0.25	0.14	0	0	0	0	0	0	0	0
4/8/2024 21:41	67402	WAKE_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
4/8/2024 21:41	50502	MECH_T1	1	1	0	2.9	3.3	0.4	0	0	0	0	0	0	0	0
4/8/2024 21:41	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
4/8/2024 21:41	44302	BEAV_T2	0	18	18	0	0.16	0.16	0.16	0.17	0	0	0	0	0	0
4/8/2024 21:41	55001	NEWP_T1	0	0	0	0	0	0	-0.21	-0.11	0	0	0	0	0	0
4/8/2024 21:41	54505	ENOL_T2	1	1	0	1.2	1.2	0	-2.86	-2.84	2	2	0	1200	1200	0
4/8/2024 21:41	44301	BEAV_T2	0	0	0	0	0	0	0.77	0.77	2	2	0	1200	1200	0
4/8/2024 21:41	54502	ENOL_T2	2	1	-1	0.4	0.9	0.5	0	0	0	0	0	0	0	0
4/8/2024 21:41	50504	MECH_T1	0	21	21	0	0.14	0.14	0	0	0	0	0	0	0	0
4/8/2024 21:41	46001	BERW_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
4/8/2024 21:41	50506	MECH_T1	0	1	1	0	0.2	0.2	0.19	-0.01	0	0	0	0	0	0
4/8/2024 21:41	67401	WAKE_T2	104	187	83	0.29	0.35	0.06	0	0	0	0	0	0	0	0
4/8/2024 21:41	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
4/8/2024 21:41	56501	ROCK_T2	6	93	87	0.57	0.22	-0.35	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 21:41	63802	HEMP_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
4/8/2024 21:42	46302	ROHR_T1	9	123	114	1.06	0.28	-0.78	0.12	0.15	0	0	0	0	0	0
4/8/2024 21:42	54206	PENN_T2	135	397	262	0.28	0.27	-0.01	-0.1	-0.1	0	0	0	0	0	0
4/8/2024 21:42	53902	HALI_T2	1	1	0	5.6	6.1	0.5	0	0	0	0	0	0	0	0
4/8/2024 21:42	42002	MNVL_T2	1	1	0	3.9	3.9	0	0.03	0.02	0	0	0	0	0	0
4/8/2024 21:42	42001	MNVL_T2	0	6	6	0	0.18	0.18	0	0	0	0	0	0	0	0
4/8/2024 21:42	64204	KINZ_T1	38	158	120	0.41	0.31	-0.1	0	0	0	0	0	0	0	0
4/8/2024 21:42	56802	BENV_T2	1	203	202	0.2	0.45	0.25	-2.19	-2.28	0	0	0	0	0	0
4/8/2024 21:42	46301	ROHR_T1	140	243	103	0.24	0.34	0.1	0	0	0	0	0	0	0	0
4/8/2024 21:42	64201	KINZ_T1	29	80	51	0.33	0.44	0.11	0	0	0	0	0	0	0	0
4/8/2024 21:42	54204	PENN_T2	2	3	1	0.85	0.83	-0.02	0	0	0	0	0	0	0	0
4/8/2024 21:42	64203	KINZ_T1	68	215	147	0.2	0.35	0.15	0.14	0.25	0	0	0	0	0	0
4/8/2024 21:42	54202	PENN_T2	318	467	149	0.21	0.38	0.17	0	0	0	0	0	0	0	0
4/8/2024 21:42	45001	LIME_2	0	13	13	0	0.13	0.13	0	0	0	0	0	0	0	0
4/8/2024 21:42	67401	WAKE_T2	104	187	83	0.29	0.35	0.06	-0.97	-0.99	0	0	0	0	0	0
4/8/2024 21:42	53901	HALI_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/8/2024 21:42	53903	HALI_T2	2	2	0	1.05	1.6	0.55	-0.22	-0.23	0	0	0	0	0	0
4/8/2024 21:42	56501	ROCK_T2	6	93	87	0.57	0.22	-0.35	0	0	0	0	0	0	0	0
4/8/2024 21:42	45003	LIME_2	2	2	0	2.55	2.6	0.05	0	0	1	1	0	1200	1200	0
4/8/2024 21:42	40201	BEGA_T2	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
4/8/2024 21:42	45402	WBLO_T2	23	34	11	0.21	0.2	-0.01	-0.92	-0.95	0	0	0	0	0	0
4/8/2024 21:42	64202	KINZ_T1	39	75	36	0.34	0.43	0.09	0	0	0	0	0	0	0	0
4/8/2024 21:42	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
4/8/2024 21:43	45003	LIME_2	2	2	0	2.55	2.6	0.05	0	0	1	1	0	1200	1200	0
4/8/2024 21:43	50502	MECH_T1	1	1	0	2.9	3.3	0.4	0	0	0	0	0	0	0	0
4/8/2024 21:43	57401	SPAN_T1	2	90	88	1.05	0.21	-0.84	-1.35	-1.11	1	1	0	600	600	0
4/8/2024 21:43	60803	BUCK_T1	25	30	5	0.33	0.42	0.09	-0.59	-0.59	1	1	0	600	600	0
4/8/2024 21:43	46801	HEPB_T2	2	2	0	0.55	0.5	-0.05	0.53	0.52	0	0	0	0	0	0
4/8/2024 21:43	52402	GRPA_T2	4	7	3	1.4	1.33	-0.07	-0.91	-0.82	0	0	0	0	0	0
4/8/2024 21:43	45001	LIME_2	0	13	13	0	0.13	0.13	0	0	0	0	0	0	0	0
4/8/2024 21:43	45402	WBLO_T2	23	34	11	0.21	0.2	-0.01	-0.92	-0.95	0	0	0	0	0	0
4/8/2024 21:43	58402	MORO_T1	0	0	0	0	0	0	-0.4	0.14	2	1	-1	1500	900	-600
4/8/2024 21:43	67501	WEWI_T1	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
4/8/2024 21:43	52403	GRPA_T2	0	2	2	0	0.4	0.4	-0.06	-0.07	0	0	0	0	0	0
4/8/2024 21:43	41801	GOCI_T2	131	237	106	0.28	0.39	0.11	0	0	0	0	0	0	0	0
4/8/2024 21:43	67901	WNHO_T2	269	280	11	0.7	0.74	0.04	-0.45	-0.56	0	0	0	0	0	0
4/8/2024 21:43	59101	WALK_T2	11	70	59	0.15	0.39	0.24	-0.77	-0.79	0	0	0	0	0	0
4/8/2024 21:43	50501	MECH_T1	4	4	0	1.33	1.9	0.57	0	0	0	0	0	0	0	0
4/8/2024 21:43	52404	GRPA_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
4/8/2024 21:43	55001	NEWP_T1	0	0	0	0	0	0	-0.21	-0.11	0	0	0	0	0	0
4/8/2024 21:43	59402	RFLD_T2	0	0	0	0	0	0	-0.88	-0.88	1	1	0	450	450	0
4/8/2024 21:43	50504	MECH_T1	0	21	21	0	0.14	0.14	0	0	0	0	0	0	0	0
4/8/2024 21:43	56501	ROCK_T2	6	93	87	0.57	0.22	-0.35	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 21:43	43201	MVIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 21:43	60801	BUCK_T1	63	78	15	0.37	0.46	0.09	0	0	0	0	0	0	0	0
4/8/2024 21:43	41802	GOCI_T2	20	23	3	0.35	0.41	0.06	0	0	0	0	0	0	0	0
4/8/2024 21:43	55002	NEWP_T1	6	6	0	1.13	1.57	0.44	-0.6	-0.58	0	0	0	0	0	0
4/8/2024 21:43	56802	BENV_T2	1	203	202	0.2	0.45	0.25	-0.73	-0.76	0	0	0	0	0	0
4/8/2024 21:43	43202	MVIL_T2	92	157	65	0.65	0.71	0.06	-0.74	-0.75	0	0	0	0	0	0
4/8/2024 21:43	59102	WALK_T2	61	86	25	0.25	0.64	0.39	0	0	0	0	0	0	0	0
4/8/2024 21:43	50506	MECH_T1	0	1	1	0	0.2	0.2	0.19	-0.01	0	0	0	0	0	0
4/8/2024 21:43	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 21:43	57403	SPAN_T1	169	168	-1	0.44	0.66	0.22	-0.08	-0.05	0	0	0	0	0	0
4/8/2024 21:43	52401	GRPA_T2	1	2	1	0.1	0.55	0.45	-0.54	-0.56	0	0	0	0	0	0
4/8/2024 21:44	44302	BEAV_T2	0	18	18	0	0.16	0.16	0	0	0	0	0	0	0	0
4/8/2024 21:44	54502	ENOL_T2	2	1	-1	0.4	0.9	0.5	0	0	0	0	0	0	0	0
4/8/2024 21:44	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 21:44	57303	MOAL_T2	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
4/8/2024 21:44	50502	MECH_T1	1	1	0	2.9	3.3	0.4	0	0	0	0	0	0	0	0
4/8/2024 21:44	50506	MECH_T1	0	1	1	0	0.2	0.2	0.19	-0.01	0	0	0	0	0	0
4/8/2024 21:44	53903	HALI_T2	2	2	0	1.05	1.6	0.55	-0.22	-0.23	0	0	0	0	0	0
4/8/2024 21:44	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/8/2024 21:44	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0.69	0.33	0	0	0	0	0	0
4/8/2024 21:44	56504	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
4/8/2024 21:44	55002	NEWP_T1	6	6	0	1.13	1.57	0.44	-0.6	-0.58	0	0	0	0	0	0
4/8/2024 21:44	54505	ENOL_T2	1	1	0	1.2	1.2	0	-2.86	-2.84	2	2	0	1200	1200	0
4/8/2024 21:44	46206	DANV_T2	0	0	0	0	0	0	2.24	2.2	1	1	0	1200	1200	0
4/8/2024 21:44	53902	HALI_T2	1	1	0	5.6	6.1	0.5	0	0	0	0	0	0	0	0
4/8/2024 21:44	57401	SPAN_T1	2	90	88	1.05	0.21	-0.84	0	0	0	0	0	0	0	0
4/8/2024 21:44	42802	SELI_T1	1	0	-1	0.5	0	-0.5	-0.12	-0.12	0	0	0	0	0	0
4/8/2024 21:44	54501	ENOL_T2	4	4	0	0.13	0.23	0.1	0	0	0	0	0	0	0	0
4/8/2024 21:44	63803	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/8/2024 21:44	52501	PROG_T1	0	0	0	0	0	0	0.37	0.35	1	1	0	300	300	0
4/8/2024 21:44	57403	SPAN_T1	169	168	-1	0.44	0.66	0.22	-0.08	-0.05	0	0	0	0	0	0
4/8/2024 21:44	53901	HALI_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/8/2024 21:44	45702	LIND_T2	1	1	0	0.6	0.9	0.3	-0.58	-0.56	0	0	0	0	0	0
4/8/2024 21:44	44301	BEAV_T2	0	0	0	0	0	0	0.38	0.38	1	1	0	600	600	0
4/8/2024 21:44	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
4/8/2024 21:44	50504	MECH_T1	0	21	21	0	0.14	0.14	0	0	0	0	0	0	0	0
4/8/2024 21:44	57304	MOAL_T2	6	21	15	0.32	0.26	-0.06	-0.57	-0.59	0	0	0	0	0	0
4/8/2024 21:44	50501	MECH_T1	4	4	0	1.33	1.9	0.57	0	0	0	0	0	0	0	0
4/8/2024 21:44	56501	ROCK_T2	6	93	87	0.57	0.22	-0.35	-0.02	-0.02	0	0	0	0	0	0
4/8/2024 21:45	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0.69	0.33	0	0	0	0	0	0
4/8/2024 21:45	52004	LING_T2	1	1	0	0.2	0.3	0.1	0.1	0.1	0	0	0	0	0	0
4/8/2024 21:45	52002	LING_T2	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
4/8/2024 21:45	41802	GOCI_T2	17	23	6	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
4/8/2024 21:45	41801	GOCI_T2	198	204	6	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
4/8/2024 21:45	52006	LING_T2	3	3	0	1.23	1.33	0.1	0	0	0	0	0	0	0	0
4/8/2024 21:45	57403	SPAN_T1	168	156	-12	0.66	0.4	-0.26	0	0	0	0	0	0	0	0
4/8/2024 21:45	57401	SPAN_T1	42	87	45	0.25	0.2	-0.05	-1.35	-1.11	1	1	0	600	600	0
4/8/2024 21:46	54504	ENOL_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
4/8/2024 21:46	44302	BEAV_T2	1	18	17	0.1	0.16	0.06	0.16	0.17	0	0	0	0	0	0
4/8/2024 21:46	64801	MONE_T2	25	64	39	0.14	0.21	0.07	0	0	0	0	0	0	0	0
4/8/2024 21:46	56501	ROCK_T2	30	93	63	0.24	0.22	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 21:46	40101	HUNT_T2	0	1	1	0	0	0	-0.46	-0.47	0	0	0	0	0	0
4/8/2024 21:46	54501	ENOL_T2	2	4	2	0.15	0.23	0.08	0	0	0	0	0	0	0	0
4/8/2024 21:46	54505	ENOL_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
4/8/2024 21:46	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/8/2024 21:46	58401	MORO_T1	0	0	0	0	0	0	-1.3	-1.3	1	1	0	600	600	0
4/8/2024 21:46	64802	MONE_T2	20	120	100	0.19	0.2	0.01	0.13	0.13	0	0	0	0	0	0
4/8/2024 21:47	45003	LIME_2	2	2	0	2.55	2.6	0.05	0	0	1	1	0	1200	1200	0
4/8/2024 21:47	57401	SPAN_T1	42	87	45	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/8/2024 21:47	53903	HALI_T2	2	2	0	1.3	1.6	0.3	-0.22	-0.23	0	0	0	0	0	0
4/8/2024 21:47	54202	PENN_T2	367	463	96	0.29	0.38	0.09	0	0	0	0	0	0	0	0
4/8/2024 21:47	41902	REED_T1	0	0	0	0	0	0	1.78	1.78	0	0	0	0	0	0
4/8/2024 21:47	54206	PENN_T2	196	385	189	0.27	0.27	0	-0.1	-0.1	0	0	0	0	0	0
4/8/2024 21:47	57403	SPAN_T1	168	156	-12	0.66	0.4	-0.26	-0.08	-0.05	0	0	0	0	0	0
4/8/2024 21:47	41901	REED_T1	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
4/8/2024 21:47	56501	ROCK_T2	30	93	63	0.24	0.22	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 21:47	45001	LIME_2	0	13	13	0	0.13	0.13	0	0	0	0	0	0	0	0
4/8/2024 21:47	53902	HALI_T2	1	1	0	5.8	6.1	0.3	0	0	0	0	0	0	0	0
4/8/2024 21:47	54204	PENN_T2	3	3	0	0.73	0.83	0.1	0	0	0	0	0	0	0	0
4/8/2024 21:47	66703	STRA_T1	44	241	197	0.28	0.47	0.19	-0.5	-0.48	0	0	0	0	0	0
4/8/2024 21:47	53901	HALI_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
4/8/2024 21:47	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0.69	0.33	0	0	0	0	0	0
4/8/2024 21:48	54505	ENOL_T2	1	1	0	1.2	1.2	0	-1.43	-1.42	1	1	0	600	600	0
4/8/2024 21:48	44301	BEAV_T2	0	0	0	0	0	0	0.38	0.38	1	1	0	600	600	0
4/8/2024 21:48	56501	ROCK_T2	30	93	63	0.24	0.22	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 21:48	50502	MECH_T1	1	1	0	2.9	3.3	0.4	0	0	0	0	0	0	0	0
4/8/2024 21:48	54501	ENOL_T2	2	4	2	0.15	0.23	0.08	0	0	0	0	0	0	0	0
4/8/2024 21:48	67401	WAKE_T2	133	337	204	0.34	0.37	0.03	-0.97	-0.99	0	0	0	0	0	0
4/8/2024 21:48	57304	MOAL_T2	17	32	15	0.27	0.29	0.02	-0.57	-0.59	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/8/2024 21:48	44302	BEAV_T2	1	18	17	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/8/2024 21:48	50506	MECH_T1	0	1	1	0	0.2	0.2	0.19	-0.01	0	0	0	0	0	0
4/8/2024 21:48	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/8/2024 21:48	50501	MECH_T1	4	4	0	1.55	1.9	0.35	0	0	0	0	0	0	0	0
4/8/2024 21:48	57303	MOAL_T2	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
4/8/2024 21:48	58401	MORO_T1	0	0	0	0	0	0	-2.61	-2.61	2	2	0	1200	1200	0
4/8/2024 21:48	67402	WAKE_T2	0	11	11	0	0.14	0.14	0	0	0	0	0	0	0	0
4/8/2024 21:48	50504	MECH_T1	3	21	18	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/8/2024 21:49	56803	BENV_T1	5	5	0	0.54	0.64	0.1	0	0	0	0	0	0	0	0
4/8/2024 21:49	46004	BERW_T2	0	0	0	0	0	0	-0.43	-0.47	0	0	0	0	0	0
4/8/2024 21:49	56801	BENV_T1	17	16	-1	0.74	0.73	-0.01	-0.23	-0.26	0	0	0	0	0	0
4/8/2024 21:50	52403	GRPA_T2	0	2	2	0	0.4	0.4	-0.06	-0.07	0	0	0	0	0	0
4/8/2024 21:50	52401	GRPA_T2	1	2	1	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
4/8/2024 21:50	52404	GRPA_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/8/2024 21:50	52402	GRPA_T2	5	7	2	1.5	1.33	-0.17	0	0	0	0	0	0	0	0
4/8/2024 21:50	42802	SELI_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
4/8/2024 21:50	59102	WALK_T2	75	86	11	0.35	0.64	0.29	0	0	0	0	0	0	0	0
4/8/2024 21:50	59101	WALK_T2	57	46	-11	0.41	0.22	-0.19	-0.77	-0.79	0	0	0	0	0	0
4/8/2024 21:51	44302	BEAV_T2	1	18	17	0.1	0.16	0.06	0.16	0.17	0	0	0	0	0	0
4/8/2024 21:51	52402	GRPA_T2	5	7	2	1.5	1.33	-0.17	-0.91	-0.82	0	0	0	0	0	0
4/8/2024 21:51	52401	GRPA_T2	1	2	1	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
4/8/2024 21:51	52403	GRPA_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/8/2024 21:51	52404	GRPA_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/8/2024 21:52	60803	BUCK_T1	29	38	9	0.39	0.48	0.09	0	0	0	0	0	0	0	0
4/8/2024 21:52	67401	WAKE_T2	133	337	204	0.34	0.37	0.03	0	0	0	0	0	0	0	0
4/8/2024 21:52	54204	PENN_T2	3	3	0	0.73	0.83	0.1	0	0	0	0	0	0	0	0
4/8/2024 21:52	67402	WAKE_T2	0	11	11	0	0.14	0.14	0.12	0.13	0	0	0	0	0	0
4/8/2024 21:52	54202	PENN_T2	367	463	96	0.29	0.38	0.09	0	0	0	0	0	0	0	0
4/8/2024 21:52	41902	REED_T1	0	0	0	0	0	0	0.89	0.89	0	0	0	0	0	0
4/8/2024 21:52	54206	PENN_T2	196	385	189	0.27	0.27	0	-0.1	-0.1	0	0	0	0	0	0
4/8/2024 21:52	60801	BUCK_T1	72	137	65	0.48	0.41	-0.07	-0.27	-0.26	0	0	0	0	0	0
4/8/2024 21:52	41901	REED_T1	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
4/8/2024 21:53	57403	SPAN_T1	168	156	-12	0.66	0.4	-0.26	-0.05	-0.06	0	0	0	0	0	0
4/8/2024 21:53	57401	SPAN_T1	42	87	45	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/8/2024 21:54	52402	GRPA_T2	5	7	2	1.5	1.33	-0.17	0	0	0	0	0	0	0	0
4/8/2024 21:54	40901	JESH_T1	9	0	-9	0.11	0	-0.11	0	0	0	0	0	0	0	0
4/8/2024 21:54	40101	HUNT_T2	0	1	1	0	0	0	-0.47	-0.45	0	0	0	0	0	0
4/8/2024 21:54	52404	GRPA_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/8/2024 21:54	40902	JESH_T1	13	0	-13	0.11	0	-0.11	-0.93	-0.93	0	0	0	0	0	0
4/8/2024 21:54	52401	GRPA_T2	1	2	1	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
4/8/2024 21:54	52403	GRPA_T2	0	2	2	0	0.4	0.4	-0.07	-0.07	0	0	0	0	0	0
4/8/2024 22:01	64702	LITI_T2	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
4/8/2024 22:04	65001	NEFF_T2	237	6	-231	0.37	0.1	-0.27	-0.94	-1.04	1	1	0	1200	1200	0
4/8/2024 22:09	53903	HALI_T2	2	2	0	1.6	1	-0.6	-0.22	-0.23	0	0	0	0	0	0
4/8/2024 22:09	57401	SPAN_T1	87	4	-83	0.2	0.53	0.33	-1.06	-1.02	1	1	0	600	600	0
4/8/2024 22:09	57403	SPAN_T1	156	61	-95	0.4	0.22	-0.18	0	0	0	0	0	0	0	0
4/8/2024 22:09	53902	HALI_T2	1	1	0	6.1	5.4	-0.7	0	0	0	0	0	0	0	0
4/8/2024 22:09	53901	HALI_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
4/8/2024 22:25	54502	ENOL_T2	1	1	0	0.4	0.2	-0.2	-1.13	-1.13	1	1	0	600	600	0
4/8/2024 22:30	44301	BEAV_T2	0	0	0	0	0	0	0.53	0.5	1	1	0	600	600	0
4/8/2024 23:02	67605	WARW_T1	17	34	17	0.43	0.47	0.04	-1.08	-1.13	0	0	0	0	0	0
4/8/2024 23:26	20601	GRWO_T2	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
4/8/2024 23:28	54502	ENOL_T2	1	1	0	0.5	0.5	0	-1.14	-1.15	1	1	0	600	600	0
4/8/2024 7:20	55002	NEWP_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/8/2024 7:20	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/8/2024 7:20	14603	SWHI_T1	0	0	0	0	0	0	-1.07	-1.07	1	1	0	600	600	0
4/8/2024 7:20	55001	NEWP_T1	0	0	0	0	0	0	-0.79	-0.82	1	1	0	600	600	0
4/8/2024 7:21	67703	WERN_T2	0	0	0	0	0	0	-0.3	-0.33	1	1	0	900	900	0
4/8/2024 7:22	49804	UNIV_T1	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
4/8/2024 7:24	61102	BERK_T5	0	0	0	0	0	0	0.65	0.6	1	1	0	300	300	0
4/8/2024 7:25	61102	BERK_T5	0	0	0	0	0	0	1.29	1.2	2	2	0	600	600	0
4/8/2024 7:25	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/8/2024 7:25	67805	WLAN_T1	0	0	0	0	0	0	-1.07	-1.09	0	0	0	0	0	0
4/8/2024 7:26	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 7:27	15001	BLMO_T1	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
4/8/2024 7:29	45602	WOOL_T1	3	0	-3	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/8/2024 7:30	42902	MIDD_T2	1	2	1	0.4	0.55	0.15	-0.91	-0.91	1	1	0	600	600	0
4/8/2024 7:31	42902	MIDD_T2	1	2	1	0.4	0.55	0.15	-0.91	-0.91	1	1	0	600	600	0
4/8/2024 7:34	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 7:35	66503	SMAN_T2	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
4/8/2024 7:35	66505	SMAN_T2	2	3	1	0.6	0.8	0.2	0.09	0.01	2	2	0	1100	1100	0
4/8/2024 7:36	66503	SMAN_T2	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
4/8/2024 7:36	66505	SMAN_T2	2	3	1	0.6	0.8	0.2	0.09	0.01	2	2	0	1100	1100	0
4/8/2024 7:37	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/8/2024 7:38	14404	SSLA_T1	1	1	0	4.5	5.6	1.1	-0.03	-0.05	0	0	0	0	0	0
4/8/2024 7:40	62605	ENGL_T1	0	0	0	0	0	0	-0.92	-0.89	0	0	0	0	0	0
4/8/2024 7:41	55508	HERS_T2	2	2	0	1.7	1.9	0.2	-2.62	-2.61	1	1	0	1200	1200	0
4/8/2024 7:41	62602	ENGL_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
4/8/2024 7:42	62605	ENGL_T1	0	0	0	0	0	0	-0.92	-0.89	0	0	0	0	0	0
4/8/2024 7:43	24902	WHHA_T1	4	16	12	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
4/8/2024 7:43	46402	FLEM_T2	20	4	-16	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/8/2024 7:43	46401	FLEM_T2	2	0	-2	0.1	0	-0.1	0.4	0.43	0	0	0	0	0	0
4/8/2024 7:43	62605	ENGL_T1	0	0	0	0	0	0	-0.92	-0.89	0	0	0	0	0	0
4/8/2024 7:48	46203	DANV_T2	29	102	73	0.21	0.35	0.14	-2.33	-2.34	0	0	0	0	0	0
4/8/2024 7:49	56501	ROCK_T2	0	2	2	0	0.5	0.5	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 7:49	14603	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 7:49	14601	SWHI_T1	0	0	0	0	0	0	-1.02	-0.99	0	0	0	0	0	0
4/8/2024 7:50	14601	SWHI_T1	0	0	0	0	0	0	-1.02	-0.99	0	0	0	0	0	0
4/8/2024 7:50	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
4/8/2024 7:50	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 7:50	14603	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 7:50	56501	ROCK_T2	0	2	2	0	0.5	0.5	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 7:51	56501	ROCK_T2	0	2	2	0	0.5	0.5	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 7:51	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 7:52	56501	ROCK_T2	0	2	2	0	0.5	0.5	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 7:52	14601	SWHI_T1	0	0	0	0	0	0	-1.02	-0.99	0	0	0	0	0	0
4/8/2024 7:52	14603	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/8/2024 7:54	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 7:54	40502	CRES_T2	8	0	-8	0.14	0	-0.14	-0.23	-0.24	0	0	0	0	0	0
4/8/2024 7:54	50105	HARR_T3	8	8	0	5.81	5.85	0.04	0	0	0	0	0	0	0	0
4/8/2024 7:54	50103	HARR_T3	2	2	0	0.7	1.05	0.35	-1.15	0.23	1	1	0	1200	1200	0
4/8/2024 7:55	40504	CRES_T1	0	0	0	0	0	0	-0.48	-0.44	0	0	0	0	0	0
4/8/2024 7:56	63305	GREE_T1	0	0	0	0	0	0	-1.23	-1.13	0	0	0	0	0	0
4/8/2024 7:57	56501	ROCK_T2	0	2	2	0	0.5	0.5	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 7:57	41801	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 7:57	63305	GREE_T1	0	0	0	0	0	0	-1.23	-1.13	0	0	0	0	0	0
4/8/2024 7:58	46203	DANV_T2	29	102	73	0.21	0.35	0.14	-2.34	-2.07	0	0	0	0	0	0
4/8/2024 7:58	40101	HUNT_T2	4	2	-2	0.9	0.1	-0.8	-0.37	-0.37	0	0	0	0	0	0
4/8/2024 7:59	41801	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 8:00	64702	LITI_T2	0	0	0	0	0	0	-2.11	-2.04	0	0	0	0	0	0
4/8/2024 8:00	40101	HUNT_T2	1	2	1	0.1	0.1	0	-0.37	-0.37	0	0	0	0	0	0
4/8/2024 8:01	40601	PIGR_T1	125	134	9	0.2	0.22	0.02	0	0.04	0	0	0	0	0	0
4/8/2024 8:01	12006	HATF_T1	0	0	0	0	0	0	0.39	0.49	1	1	0	1200	1200	0
4/8/2024 8:01	45702	LIND_T2	1	1	0	0.4	0.1	-0.3	-0.36	-0.38	0	0	0	0	0	0
4/8/2024 8:02	42903	MIDD_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/8/2024 8:02	42902	MIDD_T2	2	1	-1	0.55	0.8	0.25	-1.07	-0.46	1	0	-1	600	0	-600
4/8/2024 8:04	42903	MIDD_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/8/2024 8:04	42902	MIDD_T2	2	1	-1	0.55	0.8	0.25	-1.07	-0.46	1	0	-1	600	0	-600
4/8/2024 8:04	65601	QVIL_T2	0	0	0	0	0	0	-1.22	-1.25	1	1	0	900	900	0
4/8/2024 8:05	51505	SWAT_T2	0	0	0	0	0	0	1.2	1.28	0	0	0	0	0	0
4/8/2024 8:05	51204	MTON_T2	0	0	0	0	0	0	-0.74	-0.71	1	1	0	900	900	0
4/8/2024 8:06	65603	QVIL_T2	0	0	0	0	0	0	0.51	0.64	0	0	0	0	0	0
4/8/2024 8:06	40601	PIGR_T1	125	134	9	0.2	0.22	0.02	0	0.04	0	0	0	0	0	0
4/8/2024 8:07	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 8:07	56801	BENV_T1	13	12	-1	1.15	0.87	-0.28	-0.74	-0.78	1	1	0	600	600	0
4/8/2024 8:07	56802	BENV_T2	0	7	7	0	0.17	0.17	-3	-2.71	0	0	0	0	0	0
4/8/2024 8:08	50303	CEDA_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
4/8/2024 8:08	16301	ALPA_T1	1	13	12	0.4	0.19	-0.21	-0.45	-0.48	0	0	0	0	0	0
4/8/2024 8:09	56802	BENV_T2	0	7	7	0	0.17	0.17	-1.35	-1.4	0	0	0	0	0	0
4/8/2024 8:09	60901	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 8:09	62104	ELAN_T1	0	0	0	0	0	0	0.21	0.26	2	2	0	1500	1500	0
4/8/2024 8:09	60902	DONG_T2	0	1	1	0	0.2	0.2	0.69	0.67	0	0	0	0	0	0
4/8/2024 8:10	56802	BENV_T2	0	7	7	0	0.17	0.17	-1.35	-1.4	0	0	0	0	0	0
4/8/2024 8:10	61503	EPET_T1	0	0	0	0	0	0	-1.21	-1.18	0	0	0	0	0	0
4/8/2024 8:11	56802	BENV_T2	0	7	7	0	0.17	0.17	-1.35	-1.4	0	0	0	0	0	0
4/8/2024 8:11	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 8:11	62607	ENGL_T1	0	1	1	0	0.1	0.1	-1.17	-1.17	1	1	0	300	300	0
4/8/2024 8:12	62104	ELAN_T1	0	0	0	0	0	0	0.21	0.26	2	2	0	1500	1500	0
4/8/2024 8:13	24902	WHHA_T1	16	7	-9	0.99	1.7	0.71	0	0	0	0	0	0	0	0
4/8/2024 8:13	61801	EELI_T2	0	0	0	0	0	0	-0.93	-0.92	1	1	0	600	600	0
4/8/2024 8:14	61801	EELI_T2	0	0	0	0	0	0	-0.93	-0.92	1	1	0	600	600	0
4/8/2024 8:14	40101	HUNT_T2	1	2	1	0.1	0.1	0	-0.37	-0.36	0	0	0	0	0	0
4/8/2024 8:17	67605	WARW_T1	23	39	16	0.47	0.54	0.07	-0.9	-1.07	0	0	0	0	0	0
4/8/2024 8:18	43202	MVIL_T2	2	27	25	0.15	0.19	0.04	-0.6	-0.62	0	0	0	0	0	0
4/8/2024 8:18	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 8:19	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2024 8:19	15203	SFAR_T2	0	1	1	0	0.2	0.2	-1.62	-1.6	0	0	0	0	0	0
4/8/2024 8:20	15203	SFAR_T2	0	1	1	0	0.2	0.2	-1.62	-1.6	0	0	0	0	0	0
4/8/2024 8:21	15204	SFAR_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
4/8/2024 8:21	67605	WARW_T1	23	39	16	0.47	0.54	0.07	-0.9	-1.07	0	0	0	0	0	0
4/8/2024 8:21	15203	SFAR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/8/2024 8:22	51101	CARL_T1	0	0	0	0	0	0	-0.62	-0.68	0	0	0	0	0	0
4/8/2024 8:22	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 8:22	51102	CARL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 8:23	61102	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/8/2024 8:23	61103	BERK_T5	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
4/8/2024 8:23	10801	CHHI_T1	0	0	0	0	0	0	-1.87	-1.76	2	2	0	1800	1800	0
4/8/2024 8:23	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 8:23	51109	CARL_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
4/8/2024 8:23	51102	CARL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/8/2024 8:23	61101	BERK_T5	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/8/2024 8:25	61102	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/8/2024 8:25	61101	BERK_T5	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/9/2024 8:25	61103	BERK_T5	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
4/9/2024 8:27	24105	EHAZ_T1	4	4	0	5.85	5.68	-0.17	0	0	0	0	0	0	0	0
4/9/2024 8:27	24104	EHAZ_T1	0	0	0	0	0	0	-0.94	-0.96	1	1	0	1200	1200	0
4/9/2024 8:28	61103	BERK_T5	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
4/9/2024 8:28	61101	BERK_T5	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/9/2024 8:28	61102	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/9/2024 8:30	58402	MORO_T1	0	0	0	0	0	0	-0.17	-0.2	2	2	0	1500	1500	0
4/9/2024 8:31	45701	LIND_T2	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
4/9/2024 8:31	45702	LIND_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/9/2024 8:32	55001	NEWP_T1	0	28	28	0	0.25	0.25	-0.86	-0.87	1	1	0	600	600	0
4/9/2024 8:32	67605	WARW_T1	31	43	12	0.52	0.71	0.19	-1.07	-1.07	0	0	0	0	0	0
4/9/2024 8:32	40101	HUNT_T2	1	21	20	0.1	0.65	0.55	-0.36	-0.15	0	0	0	0	0	0
4/9/2024 8:32	55002	NEWP_T1	6	8	2	0.8	0.85	0.05	0	0	0	0	0	0	0	0
4/9/2024 8:33	67605	WARW_T1	31	43	12	0.52	0.71	0.19	0	0	0	0	0	0	0	0
4/9/2024 8:33	46301	ROHR_T1	1	4	3	0.1	0.28	0.18	0	0	0	0	0	0	0	0
4/9/2024 8:33	67604	WARW_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
4/9/2024 8:33	46302	ROHR_T1	4	4	0	1.83	2	0.17	0.17	0.15	0	0	0	0	0	0
4/9/2024 8:34	55001	NEWP_T1	0	28	28	0	0.25	0.25	0	0	0	0	0	0	0	0
4/9/2024 8:34	65601	QVIL_T2	0	22	22	0	0.12	0.12	0	0	0	0	0	0	0	0
4/9/2024 8:34	58402	MORO_T1	0	0	0	0	0	0	-0.17	-0.2	2	2	0	1500	1500	0
4/9/2024 8:34	46302	ROHR_T1	4	4	0	1.83	2	0.17	0.17	0.15	0	0	0	0	0	0
4/9/2024 8:34	55002	NEWP_T1	6	8	2	0.8	0.85	0.05	-0.22	-0.22	0	0	0	0	0	0
4/9/2024 8:34	65603	QVIL_T2	0	0	0	0	0	0	0.58	0.93	0	0	0	0	0	0
4/9/2024 8:34	46301	ROHR_T1	1	4	3	0.1	0.28	0.18	0	0	0	0	0	0	0	0
4/9/2024 8:35	14601	SWHI_T1	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
4/9/2024 8:35	55002	NEWP_T1	6	8	2	0.8	0.85	0.05	-0.44	-0.44	0	0	0	0	0	0
4/9/2024 8:35	55001	NEWP_T1	0	28	28	0	0.25	0.25	0	0	0	0	0	0	0	0
4/9/2024 8:35	14603	SWHI_T1	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/9/2024 8:35	67204	TEHI_T2	0	2	2	0	0.35	0.35	-0.06	-0.1	0	0	0	0	0	0
4/9/2024 8:36	14404	SSLA_T1	1	1	0	5.5	5.7	0.2	-0.05	-0.06	0	0	0	0	0	0
4/9/2024 8:36	67503	WEWI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/9/2024 8:36	65601	QVIL_T2	0	22	22	0	0.12	0.12	0	0	0	0	0	0	0	0
4/9/2024 8:36	65603	QVIL_T2	0	0	0	0	0	0	0.58	0.93	0	0	0	0	0	0
4/9/2024 8:36	67505	WEWI_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/9/2024 8:36	65604	QVIL_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
4/9/2024 8:36	67501	WEWI_T1	0	4	4	0	0.28	0.28	-1.25	-1.27	1	1	0	600	600	0
4/9/2024 8:36	67204	TEHI_T2	0	2	2	0	0.35	0.35	-0.06	-0.1	0	0	0	0	0	0
4/9/2024 8:36	67502	WEWI_T2	1	1	0	0.1	0.2	0.1	-1.23	-0.4	1	1	0	900	900	0
4/9/2024 8:37	42701	AUGU_T1	1	1	0	1.6	1.7	0.1	0	0	2	2	0	1800	1800	0
4/9/2024 8:37	67605	WARW_T1	31	43	12	0.52	0.71	0.19	-1.07	-1.07	0	0	0	0	0	0
4/9/2024 8:37	67501	WEWI_T1	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
4/9/2024 8:37	67505	WEWI_T1	0	2	2	0	0.15	0.15	-0.27	-0.25	1	1	0	900	900	0
4/9/2024 8:38	42701	AUGU_T1	1	1	0	1.6	1.7	0.1	0	0	2	2	0	1800	1800	0
4/9/2024 8:39	15103	UPHA_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
4/9/2024 8:40	67505	WEWI_T1	0	2	2	0	0.15	0.15	-0.25	-0.34	1	1	0	900	900	0
4/9/2024 8:40	67501	WEWI_T1	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
4/9/2024 8:41	51108	CARL_T1	1	0	-1	0.1	0	-0.1	-0.33	-0.36	1	1	0	600	600	0
4/9/2024 8:41	51102	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/9/2024 8:45	15103	UPHA_T2	0	1	1	0	0.5	0.5	0.35	0.35	0	0	0	0	0	0
4/9/2024 9:00	57403	SPAN_T1	95	119	24	0.27	0.31	0.04	-0.05	-0.03	0	0	0	0	0	0
4/9/2024 9:00	57401	SPAN_T1	5	35	30	0.46	0.29	-0.17	0	0	0	0	0	0	0	0
4/9/2024 9:02	56801	BENV_T1	20	28	8	0.79	0.93	0.14	-0.79	-0.82	1	1	0	600	600	0
4/9/2024 9:02	56803	BENV_T1	1	4	3	0.5	0.53	0.03	0	0	0	0	0	0	0	0
4/9/2024 9:03	59101	WALK_T2	0	17	17	0	0.11	0.11	0.35	0.18	0	0	0	0	0	0
4/9/2024 9:19	65205	PRIN_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/9/2024 9:50	17002	RIRO_T2	238	272	34	0.24	0.24	0	0.65	0.66	0	0	0	0	0	0
4/9/2024 10:00	67605	WARW_T1	40	37	-3	0.71	0.62	-0.09	0	0	0	0	0	0	0	0
4/9/2024 10:00	15103	UPHA_T2	1	1	0	0.7	0.8	0.1	0.36	0.33	0	0	0	0	0	0
4/9/2024 10:00	16102	BING_T2	1	5	4	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/9/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.04	0.02	1	1	0	600	600	0
4/9/2024 10:00	24102	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/9/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	0.28	0.74	1	1	0	600	600	0
4/9/2024 10:00	17002	RIRO_T2	233	248	15	0.23	0.24	0.01	0.66	0.66	0	0	0	0	0	0
4/9/2024 10:00	67603	WARW_T1	0	1	1	0	0.5	0.5	-0.05	-0.04	0	0	0	0	0	0
4/9/2024 10:00	58001	WCAR_T1	4	2	-2	0.38	0.2	-0.18	0	0	0	0	0	0	0	0
4/9/2024 10:00	40502	CRES_T2	10	10	0	0.17	0.17	0	-0.34	-0.35	0	0	0	0	0	0
4/9/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.13	-0.12	2	2	0	1500	1500	0
4/9/2024 10:00	10801	OHHI_T1	1	8	7	0.1	0.59	0.49	-1.77	-1.78	2	2	0	1800	1800	0
4/9/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
4/9/2024 10:00	24105	EHAZ_T1	4	4	0	6.2	6.03	-0.17	-0.7	-0.69	1	1	0	1200	1200	0
4/9/2024 10:00	66302	MCGO_T2	1	1	0	1	0.5	-0.5	-1.32	-1.11	1	1	0	600	600	0
4/9/2024 10:00	24104	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/9/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
4/9/2024 10:00	42902	MIDD_T2	10	45	35	0.23	0.25	0.02	0	0	0	0	0	0	0	0
4/9/2024 10:00	60101	COCA_T1	1	0	-1	0.1	0	-0.1	0.22	0.3	0	0	0	0	0	0
4/9/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2024 10:00	63804	HEMP_T1	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
4/9/2024 10:00	46206	DANV_T2	0	0	0	0	0	0	0.97	0.78	1	1	0	1200	1200	0
4/9/2024 10:00	65001	NEFF_T2	4	3	-1	0.13	0.1	-0.03	-0.52	-0.54	1	1	0	1200	1200	0
4/9/2024 10:00	65702	RVIL_T2	1	1	0	0.1	0.2	0.1	-0.62	-0.58	0	0	0	0	0	0
4/9/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.16	0.09	0	0	0	0	0	0
4/9/2024 10:00	64903	MILL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/9/2024 10:00	40505	CRES_T1	1	0	-1	0.1	0	-0.1	0.48	0.49	0	0	0	0	0	0
4/9/2024 10:00	53903	HALI_T2	7	9	2	0.63	0.61	-0.02	-0.16	0	0	0	0	0	0	0
4/9/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	0	0.1	1	1	0	1200	1200	0
4/9/2024 10:00	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/9/2024 10:00	42903	MIDD_T2	3	3	0	1.6	1.57	-0.03	0.47	0.44	1	1	0	1200	1200	0
4/9/2024 10:00	62607	ENGL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/9/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.14	-0.28	1	1	0	600	600	0
4/9/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.84	0.85	0	0	0	0	0	0
4/9/2024 10:00	62605	ENGL_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/9/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
4/9/2024 10:00	48302	ORWI_T2	2	2	0	1.55	1.5	-0.05	-0.02	-0.02	0	0	0	0	0	0
4/9/2024 10:00	45902	AUBU_T1	1	1	0	0.4	0.4	0	-0.46	-0.44	1	1	0	600	600	0
4/9/2024 10:00	16101	BING_T2	0	1	1	0	0.3	0.3	0.34	0.31	0	0	0	0	0	0
4/9/2024 10:00	65005	NEFF_T2	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0	0
4/9/2024 10:00	53901	HALI_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/9/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.58	0.53	0	0	0	0	0	0
4/9/2024 10:00	64902	MILL_T2	0	1	1	0	0.1	0.1	-0.8	-0.79	1	1	0	900	900	0
4/9/2024 10:00	63803	HEMP_T1	5	8	3	0.3	0.31	0.01	0	0	0	0	0	0	0	0
4/9/2024 10:00	63801	HEMP_T1	8	9	1	0.23	0.32	0.09	0.49	0.43	0	0	0	0	0	0
4/9/2024 10:00	56501	ROCK_T2	1	7	6	0.1	0.24	0.14	-0.01	-0.01	0	0	0	0	0	0
4/9/2024 10:00	53902	HALI_T2	3	3	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0
4/9/2024 10:00	67401	WAKE_T2	3	5	2	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
4/9/2024 10:00	40101	HUNT_T2	2	8	6	0.7	0.3	-0.4	-0.05	-0.1	0	0	0	0	0	0
4/9/2024 10:00	42301	MOWR_T2	1	1	0	6.2	6.4	0.2	0	0	0	0	0	0	0	0
4/9/2024 10:00	58003	WCAR_T1	1	1	0	1	0.9	-0.1	0.05	0.08	1	1	0	600	600	0
4/9/2024 10:00	40901	JESH_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/9/2024 10:00	65003	NEFF_T2	8	7	-1	0.36	0.43	0.07	0	0	0	0	0	0	0	0
4/9/2024 10:00	46203	DANV_T2	180	171	-9	0.93	0.71	-0.22	0	0	0	0	0	0	0	0
4/9/2024 10:00	66303	MCGO_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/9/2024 10:00	58803	COCO_T1	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
4/9/2024 10:00	65002	NEFF_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/9/2024 10:00	42901	MIDD_T2	3	14	11	0.33	0.21	-0.12	0	0	0	0	0	0	0	0
4/9/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
4/9/2024 10:00	63802	HEMP_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/9/2024 10:00	65004	NEFF_T2	3	4	1	0.47	0.38	-0.09	0	0	0	0	0	0	0	0
4/9/2024 10:00	54001	SDLE_T1	6	6	0	0.62	0.82	0.2	0	0	1	1	0	600	600	0
4/9/2024 10:00	45501	DERR_T2	1	2	1	0.5	0.55	0.05	0.29	0.33	2	2	0	1800	1800	0
4/9/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
4/9/2024 10:00	48303	ORWI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/9/2024 10:00	56504	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/9/2024 10:02	67603	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/9/2024 10:02	67604	WARW_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
4/9/2024 10:02	67605	WARW_T1	40	37	-3	0.71	0.62	-0.09	0	0	0	0	0	0	0	0
4/9/2024 10:06	60801	BUCK_T1	16	23	7	0.24	0.21	-0.03	-0.06	-0.05	0	0	0	0	0	0
4/9/2024 10:06	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/9/2024 10:06	40201	BEGA_T2	2	3	1	0.4	0.53	0.13	0	0	0	0	0	0	0	0
4/9/2024 10:06	60803	BUCK_T1	14	13	-1	0.22	0.28	0.06	0	0	0	0	0	0	0	0
4/9/2024 10:06	25603	ARRO_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
4/9/2024 10:07	57101	SPHI_T2	6	6	0	0.92	1	0.08	0	0	0	0	0	0	0	0
4/9/2024 10:07	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2024 10:07	46005	BERW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/9/2024 10:07	67402	WAKE_T2	0	0	0	0	0	0	0.84	0.85	0	0	0	0	0	0
4/9/2024 10:07	46001	BERW_T1	0	0	0	0	0	0	0.96	0.89	0	0	0	0	0	0
4/9/2024 10:07	57106	SPHI_T2	3	4	1	1.33	1.23	-0.1	0	0	0	0	0	0	0	0
4/9/2024 10:07	40101	HUNT_T2	2	8	6	0.7	0.3	-0.4	-0.02	-0.03	0	0	0	0	0	0
4/9/2024 10:07	57104	SPHI_T2	1	1	0	1	0	-1	-0.25	-0.2	0	0	0	0	0	0
4/9/2024 10:07	67401	WAKE_T2	3	5	2	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
4/9/2024 10:08	64305	LINC_T1	0	0	0	0	0	0	-0.01	0.06	0	0	0	0	0	0
4/9/2024 10:08	12505	MITR_T2	1	1	0	0.2	0.4	0.2	1.65	1.24	0	0	0	0	0	0
4/9/2024 10:08	12502	MITR_T2	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
4/9/2024 10:08	12501	MITR_T2	1	1	0	3.8	6.4	2.6	0	0	0	0	0	0	0	0
4/9/2024 10:08	60803	BUCK_T1	14	13	-1	0.22	0.28	0.06	0	0	0	0	0	0	0	0
4/9/2024 10:08	60801	BUCK_T1	16	23	7	0.24	0.21	-0.03	-0.05	-0.04	0	0	0	0	0	0
4/9/2024 10:28	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2024 10:59	65205	PRIN_T1	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
4/9/2024 11:09	40601	PIGR_T1	76	158	82	0.21	0.34	0.13	0.11	0.15	0	0	0	0	0	0
4/9/2024 11:09	40602	PIGR_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/9/2024 11:09	40603	PIGR_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
4/9/2024 11:10	40602	PIGR_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/9/2024 11:10	40601	PIGR_T1	76	158	82	0.21	0.34	0.13	0.11	0.15	0	0	0	0	0	0
4/9/2024 11:10	40603	PIGR_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
4/9/2024 12:04	40603	PIGR_T1	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
4/9/2024 12:04	40602	PIGR_T1	1	62	61	0.4	0.5	0.1	-0.65	-0.62	1	1	0	600	600	0
4/9/2024 12:04	40601	PIGR_T1	140	168	28	0.36	0.61	0.25	0	0	0	0	0	0	0	0
4/9/2024 12:06	40602	PIGR_T1	1	62	61	0.4	0.5	0.1	-1.3	-1.23	2	2	0	1200	1200	0
4/9/2024 12:06	40603	PIGR_T1	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
4/9/2024 12:06	40601	PIGR_T1	140	168	28	0.36	0.61	0.25	0	0	0	0	0	0	0	0
4/9/2024 12:53	46002	BERW_T2	2	1	-1	4.3	0.1	-4.2	0	0	0	0	0	0	0	0
4/9/2024 12:53	46004	BERW_T2	0	4	4	0	0.33	0.33	-0.22	-0.25	0	0	0	0	0	0
4/9/2024 13:30	14402	SSLA_T1	6	7	1	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
4/9/2024 13:30	13701	SCHN_T2	4	1	-3	0.2	0.2	0	0.52	0.63	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/9/2024 13:30	14401	SSLA_T1	4	8	4	0.83	0.75	-0.08	0	0	0	0	0	0	0	0
4/9/2024 13:30	14403	SSLA_T1	4	7	3	0.65	0.64	-0.01	0	0	0	0	0	0	0	0
4/9/2024 13:30	14404	SSLA_T1	10	15	5	0.9	0.81	-0.09	-0.02	-0.02	0	0	0	0	0	0
4/9/2024 13:30	13704	SCHN_T2	1	1	0	0.7	0.5	-0.2	-0.38	-0.38	0	0	0	0	0	0
4/9/2024 13:32	13701	SCHN_T2	4	1	-3	0.2	0.2	0	0	0	0	0	0	0	0	0
4/9/2024 13:32	14402	SSLA_T1	6	7	1	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
4/9/2024 13:32	14404	SSLA_T1	10	15	5	0.9	0.81	-0.09	0	0	0	0	0	0	0	0
4/9/2024 13:32	14403	SSLA_T1	4	7	3	0.65	0.64	-0.01	0.59	0.63	0	0	0	0	0	0
4/9/2024 13:32	13704	SCHN_T2	1	1	0	0.7	0.5	-0.2	-0.38	-0.38	0	0	0	0	0	0
4/9/2024 13:32	14401	SSLA_T1	4	8	4	0.83	0.75	-0.08	0	0	0	0	0	0	0	0
4/9/2024 13:39	14401	SSLA_T1	4	8	4	0.83	0.75	-0.08	0	0	0	0	0	0	0	0
4/9/2024 13:39	14403	SSLA_T1	4	7	3	0.65	0.64	-0.01	0.63	0.63	0	0	0	0	0	0
4/9/2024 13:39	14404	SSLA_T1	10	15	5	0.9	0.81	-0.09	0	0	0	0	0	0	0	0
4/9/2024 13:39	14402	SSLA_T1	6	7	1	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
4/9/2024 13:45	13704	SCHN_T2	1	1	0	0.5	0.6	0.1	-0.38	-0.35	0	0	0	0	0	0
4/9/2024 13:45	13701	SCHN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/9/2024 13:46	13704	SCHN_T2	1	1	0	0.5	0.6	0.1	-0.38	-0.35	0	0	0	0	0	0
4/9/2024 13:46	13701	SCHN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/9/2024 14:05	46005	BERW_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
4/9/2024 14:05	20401	ASHF_T2	0	1	1	0	0	0	-1.07	-1.13	0	0	0	0	0	0
4/9/2024 14:05	20403	ASHF_T2	11	84	73	0.61	0.64	0.03	0	0	0	0	0	0	0	0
4/9/2024 14:05	20402	ASHF_T2	3	3	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
4/9/2024 14:05	46001	BERW_T1	0	0	0	0	0	0	1.06	1.06	0	0	0	0	0	0
4/9/2024 14:06	20401	ASHF_T2	0	1	1	0	0	0	-1.07	-1.13	0	0	0	0	0	0
4/9/2024 14:06	46002	BERW_T2	0	1	1	0	0.1	0.1	-0.61	-0.56	1	1	0	900	900	0
4/9/2024 14:06	46004	BERW_T2	2	4	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
4/9/2024 14:06	20402	ASHF_T2	3	3	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
4/9/2024 14:06	20403	ASHF_T2	11	84	73	0.61	0.64	0.03	0.71	0.72	0	0	0	0	0	0
4/9/2024 14:07	46001	BERW_T1	0	0	0	0	0	0	1.06	1.06	0	0	0	0	0	0
4/9/2024 14:07	46005	BERW_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
4/9/2024 14:09	46005	BERW_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
4/9/2024 14:09	46001	BERW_T1	0	0	0	0	0	0	1.06	1.11	0	0	0	0	0	0
4/9/2024 14:10	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/9/2024 14:10	46005	BERW_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
4/9/2024 14:10	20403	ASHF_T2	11	84	73	0.61	0.64	0.03	0.72	0.75	0	0	0	0	0	0
4/9/2024 14:10	46001	BERW_T1	0	0	0	0	0	0	2.12	2.21	0	0	0	0	0	0
4/9/2024 14:10	20402	ASHF_T2	3	3	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
4/9/2024 14:13	46005	BERW_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
4/9/2024 14:13	46001	BERW_T1	0	0	0	0	0	0	1.06	1.11	0	0	0	0	0	0
4/9/2024 14:35	40603	PIGR_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
4/9/2024 14:35	40602	PIGR_T1	0	0	0	0	0	0	0	0.03	1	1	0	600	600	0
4/9/2024 14:35	40601	PIGR_T1	69	102	33	0.28	0.29	0.01	0	0	0	0	0	0	0	0
4/9/2024 15:39	20402	ASHF_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/9/2024 15:39	20403	ASHF_T2	9	12	3	0.58	0.65	0.07	0.3	0.19	0	0	0	0	0	0
4/9/2024 15:39	20401	ASHF_T2	0	1	1	0	0	0	-1.14	-0.17	0	0	0	0	0	0
4/9/2024 15:43	20403	ASHF_T2	9	12	3	0.58	0.65	0.07	0.15	0.1	0	0	0	0	0	0
4/9/2024 15:43	20402	ASHF_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/9/2024 15:43	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/9/2024 16:07	20403	ASHF_T2	8	12	4	0.49	0.47	-0.02	0.1	0.11	0	0	0	0	0	0
4/9/2024 16:07	20401	ASHF_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/9/2024 16:07	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/9/2024 16:24	63402	HONY_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/9/2024 16:24	63403	HONY_T2	1	0	-1	0.1	0	-0.1	0	0.02	0	0	0	0	0	0
4/9/2024 16:26	63404	HONY_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/9/2024 16:26	63401	HONY_T1	0	0	0	0	0	0	0.62	0.69	0	0	0	0	0	0
4/9/2024 17:00	43505	WWIL_T1	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
4/9/2024 17:00	43504	WWIL_T1	14	16	2	0.43	0.39	-0.04	0.59	0.58	0	0	0	0	0	0
4/9/2024 17:00	43506	WWIL_T1	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
4/9/2024 17:05	11804	FRAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/9/2024 17:05	11805	FRAN_T1	0	0	0	0	0	0	-1.01	-1.09	1	1	0	1200	1200	0
4/9/2024 18:23	65802	RTWN_T2	0	0	0	0	0	0	-0.46	-0.52	0	0	0	0	0	0
4/9/2024 18:25	65802	RTWN_T2	0	0	0	0	0	0	-0.46	-0.52	0	0	0	0	0	0
4/9/2024 18:27	65802	RTWN_T2	0	0	0	0	0	0	-1.37	-1.56	0	0	0	0	0	0
4/9/2024 18:52	46001	BERW_T1	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
4/9/2024 18:54	46001	BERW_T1	0	0	0	0	0	0	0.45	0.5	0	0	0	0	0	0
4/9/2024 21:25	65802	RTWN_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
4/9/2024 21:27	17002	RIRO_T2	378	470	92	0.31	0.33	0.02	0.35	0.35	0	0	0	0	0	0
4/9/2024 21:29	63402	HONY_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/9/2024 21:29	63403	HONY_T2	0	0	0	0	0	0	0.11	0.05	0	0	0	0	0	0
4/9/2024 21:31	20401	ASHF_T2	0	2	2	0	0.2	0.2	-0.39	-0.38	0	0	0	0	0	0
4/9/2024 21:31	65802	RTWN_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
4/9/2024 21:32	65802	RTWN_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
4/9/2024 21:33	40602	PIGR_T1	0	0	0	0	0	0	-1.25	-0.06	2	2	0	1200	1200	0
4/9/2024 21:33	40601	PIGR_T1	220	212	-8	0.39	0.32	-0.07	0	0	0	0	0	0	0	0
4/9/2024 21:33	14404	SSLA_T1	1	1	0	5.4	6.1	0.7	-0.02	-0.03	0	0	0	0	0	0
4/9/2024 21:34	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2024 21:34	65802	RTWN_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
4/9/2024 21:34	65207	PRIN_T4	0	9	9	0	0.11	0.11	0	0	0	0	0	0	0	0
4/9/2024 21:34	46001	BERW_T1	0	0	0	0	0	0	0.5	0.45	0	0	0	0	0	0
4/9/2024 21:35	14403	SSLA_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
4/9/2024 21:35	46001	BERW_T1	0	0	0	0	0	0	0.5	0.45	0	0	0	0	0	0
4/9/2024 21:35	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/9/2024 21:35	14404	SSLA_T1	1	1	0	5.4	6.1	0.7	0	0	0	0	0	0	0	0
4/9/2024 21:35	13704	SCHN_T2	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
4/9/2024 21:35	46002	BERW_T2	0	0	0	0	0	0	-0.14	-0.18	0	0	0	0	0	0
4/9/2024 21:36	63404	HONY_T1	0	62	62	0	0.16	0.16	0	0	0	0	0	0	0	0
4/9/2024 21:36	63401	HONY_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
4/9/2024 21:36	20401	ASHF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/9/2024 21:36	20403	ASHF_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
4/9/2024 21:37	46001	BERW_T1	0	0	0	0	0	0	0.5	0.45	0	0	0	0	0	0
4/9/2024 21:37	13701	SCHN_T2	0	0	0	0	0	0	-0.03	-0.07	1	1	0	600	600	0
4/9/2024 21:37	46004	BERW_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
4/9/2024 21:37	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/9/2024 21:38	65205	PRIN_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
4/9/2024 21:38	11805	FRAN_T1	0	0	0	0	0	0	-1.22	-1.18	1	1	0	1200	1200	0
4/9/2024 21:38	40601	PIGR_T1	220	212	-8	0.39	0.32	-0.07	-0.19	-0.22	0	0	0	0	0	0
4/9/2024 21:38	14404	SSLA_T1	1	1	0	5.4	6.1	0.7	-0.03	-0.02	0	0	0	0	0	0
4/9/2024 21:39	46001	BERW_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
4/9/2024 21:39	13704	SCHN_T2	0	0	0	0	0	0	-0.42	-0.47	0	0	0	0	0	0
4/9/2024 21:41	40601	PIGR_T1	220	212	-8	0.39	0.32	-0.07	-0.19	-0.22	0	0	0	0	0	0
4/9/2024 21:41	65802	RTWN_T2	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
4/9/2024 21:41	40602	PIGR_T1	0	0	0	0	0	0	-0.03	-0.07	1	1	0	600	600	0
4/9/2024 21:41	14403	SSLA_T1	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
4/9/2024 21:41	20401	ASHF_T2	0	2	2	0	0.2	0.2	-0.38	-0.39	0	0	0	0	0	0
4/9/2024 21:41	14404	SSLA_T1	1	1	0	5.4	6.1	0.7	0	0	0	0	0	0	0	0
4/9/2024 21:42	20401	ASHF_T2	0	2	2	0	0.2	0.2	-0.38	-0.39	0	0	0	0	0	0
4/9/2024 21:42	13704	SCHN_T2	0	0	0	0	0	0	-0.42	-0.47	0	0	0	0	0	0
4/9/2024 21:43	13704	SCHN_T2	0	0	0	0	0	0	-0.42	-0.47	0	0	0	0	0	0
4/9/2024 21:54	46003	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/9/2024 21:54	46004	BERW_T2	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
4/10/2024 1:44	20403	ASHF_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
4/10/2024 7:06	49804	UNIV_T1	0	1	1	0	0.2	0.2	0.39	0.37	0	0	0	0	0	0
4/10/2024 7:22	15001	BLMO_T1	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/10/2024 7:38	60301	TWVA_T2	0	0	0	0	0	0	-2.43	-3.42	2	2	0	1800	1800	0
4/10/2024 7:39	40801	EXCH_T2	0	0	0	0	0	0	-0.62	-0.6	1	1	0	1200	1200	0
4/10/2024 7:42	40802	EXCH_T2	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
4/10/2024 7:43	40801	EXCH_T2	0	0	0	0	0	0	-0.62	-0.6	1	1	0	1200	1200	0
4/10/2024 7:51	67702	WERN_T2	0	0	0	0	0	0	-0.12	-0.09	0	0	0	0	0	0
4/10/2024 7:51	67703	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/10/2024 7:51	40601	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/10/2024 7:51	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 7:51	40602	PIGR_T1	0	0	0	0	0	0	-0.65	-0.62	1	1	0	600	600	0
4/10/2024 7:53	57401	SPAN_T1	1	2	1	0.1	0.5	0.4	-1.12	-1.32	1	1	0	600	600	0
4/10/2024 7:53	60802	BUCK_T2	0	0	0	0	0	0	0.14	0.19	0	0	0	0	0	0
4/10/2024 7:53	57403	SPAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 7:57	50105	HARR_T3	8	8	0	5.71	5.59	-0.12	0	0	0	0	0	0	0	0
4/10/2024 7:57	50103	HARR_T3	2	2	0	0.8	1.05	0.25	0	0	0	0	0	0	0	0
4/10/2024 7:57	50107	HARR_T3	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
4/10/2024 7:58	12006	HATF_T1	0	0	0	0	0	0	0.62	0.56	1	1	0	1200	1200	0
4/10/2024 8:00	51401	LYKE_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
4/10/2024 8:03	60502	NMAN_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
4/10/2024 8:03	60501	NMAN_T2	3	3	0	5.3	5.33	0.03	0	0	0	0	0	0	0	0
4/10/2024 8:06	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.13	0	0	0	0	0	0
4/10/2024 8:06	67703	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/10/2024 8:08	67702	WERN_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
4/10/2024 8:08	67703	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/10/2024 8:08	46004	BERW_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
4/10/2024 8:12	40802	EXCH_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
4/10/2024 8:13	40802	EXCH_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
4/10/2024 8:18	17002	RIRO_T2	34	64	30	0.14	0.16	0.02	0.54	0.53	0	0	0	0	0	0
4/10/2024 8:19	15203	SFAR_T2	12	30	18	0.1	0.11	0.01	-1.8	-1.79	0	0	0	0	0	0
4/10/2024 8:20	15204	SFAR_T2	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
4/10/2024 8:20	15203	SFAR_T2	12	30	18	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/10/2024 8:21	67802	WLAN_T1	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
4/10/2024 8:21	67804	WLAN_T1	0	0	0	0	0	0	-3.49	-3.55	0	0	0	0	0	0
4/10/2024 8:22	67804	WLAN_T1	0	0	0	0	0	0	-1.16	-1.18	0	0	0	0	0	0
4/10/2024 8:22	15204	SFAR_T2	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
4/10/2024 8:22	67803	WLAN_T1	0	0	0	0	0	0	-2.97	-2.89	0	0	0	0	0	0
4/10/2024 8:22	67805	WLAN_T1	0	0	0	0	0	0	-0.95	-1	0	0	0	0	0	0
4/10/2024 8:22	15203	SFAR_T2	12	30	18	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/10/2024 8:23	10701	CATA_T2	0	0	0	0	0	0	-0.57	-0.55	1	1	0	1200	1200	0
4/10/2024 8:23	40302	TAMA_T3	10	10	0	0.43	0.44	0.01	0.29	0.3	0	0	0	0	0	0
4/10/2024 8:23	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 8:23	40303	TAMA_T3	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/10/2024 8:24	24902	WHHA_T1	1	64	63	0.6	1.2	0.6	0	0	0	0	0	0	0	0
4/10/2024 8:25	67804	WLAN_T1	0	0	0	0	0	0	-1.18	-1.16	0	0	0	0	0	0
4/10/2024 8:25	67805	WLAN_T1	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
4/10/2024 8:27	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
4/10/2024 8:27	53903	HALI_T2	2	2	0	1.3	1.35	0.05	0	0	0	0	0	0	0	0
4/10/2024 8:27	46004	BERW_T2	0	0	0	0	0	0	-0.24	-0.29	0	0	0	0	0	0
4/10/2024 8:27	46002	BERW_T2	0	19	19	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 8:27	53901	HALI_T2	1	1	0	0.6	0.7	0.1	-1.17	-1.15	0	0	0	0	0	0
4/10/2024 8:28	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/10/2024 8:30	40101	HUNT_T2	0	0	0	0	0	0	-0.25	-0.11	0	0	0	0	0	0
4/10/2024 8:33	17002	RIRO_T2	63	75	12	0.16	0.18	0.02	0.53	0.59	0	0	0	0	0	0
4/10/2024 8:35	14603	SWHI_T1	0	1	1	0	0.2	0.2	-1.15	-1.13	1	1	0	600	600	0
4/10/2024 8:37	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 8:38	15203	SFAR_T2	24	82	58	0.1	0.2	0.1	-3.6	-3.55	0	0	0	0	0	0
4/10/2024 8:38	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 8:39	16301	ALPA_T1	1	1	0	0.4	0.5	0.1	-0.53	-0.5	0	0	0	0	0	0
4/10/2024 8:40	16301	ALPA_T1	1	1	0	0.4	0.5	0.1	-0.53	-0.5	0	0	0	0	0	0
4/10/2024 8:42	63305	GREE_T1	1	0	-1	0.1	0	-0.1	-1.95	-1.94	1	1	0	900	900	0
4/10/2024 8:43	63305	GREE_T1	1	0	-1	0.1	0	-0.1	-1.95	-1.94	1	1	0	900	900	0
4/10/2024 8:43	11201	ELHE_T2	0	0	0	0	0	0	-0.46	-0.45	2	2	0	2400	2400	0
4/10/2024 8:44	61503	EPET_T1	0	0	0	0	0	0	-1.03	-1.01	0	0	0	0	0	0
4/10/2024 8:46	12801	MICK_T1	0	0	0	0	0	0	-0.18	-0.17	1	1	0	600	600	0
4/10/2024 8:46	12807	MICK_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/10/2024 8:49	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 8:50	65802	RTWN_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
4/10/2024 8:52	14603	SWHI_T1	0	5	5	0	0.34	0.34	-1.13	-1.12	1	1	0	600	600	0
4/10/2024 8:53	67401	WAKE_T2	0	0	0	0	0	0	-0.92	-0.89	0	0	0	0	0	0
4/10/2024 8:57	53903	HALI_T2	2	2	0	1.1	1.1	0	-0.23	-0.23	0	0	0	0	0	0
4/10/2024 8:57	53901	HALI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/10/2024 8:57	53902	HALI_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
4/10/2024 8:58	41301	FISH_T1	2	2	0	1.7	1.95	0.25	-0.05	-0.04	0	0	0	0	0	0
4/10/2024 8:58	20603	GRWO_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
4/10/2024 8:59	41301	FISH_T1	2	2	0	1.7	1.95	0.25	-0.05	-0.04	0	0	0	0	0	0
4/10/2024 8:59	64702	LITI_T2	0	0	0	0	0	0	-0.69	-0.63	0	0	0	0	0	0
4/10/2024 9:00	58402	MORO_T1	0	0	0	0	0	0	-0.26	-0.24	2	2	0	1500	1500	0
4/10/2024 9:00	53901	HALI_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/10/2024 9:00	53903	HALI_T2	2	2	0	1.05	1.1	0.05	-0.23	-0.23	0	0	0	0	0	0
4/10/2024 9:00	64702	LITI_T2	0	0	0	0	0	0	-0.69	-0.63	0	0	0	0	0	0
4/10/2024 9:00	53902	HALI_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
4/10/2024 9:01	57306	MOAL_T2	0	0	0	0	0	0	-3.3	-3.28	1	1	0	1200	1200	0
4/10/2024 9:01	57304	MOAL_T2	38	34	-4	0.36	0.25	-0.11	0	0	0	0	0	0	0	0
4/10/2024 9:01	57303	MOAL_T2	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 9:01	53903	HALI_T2	2	2	0	1.05	1.1	0.05	-0.23	-0.23	0	0	0	0	0	0
4/10/2024 9:01	53902	HALI_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
4/10/2024 9:01	53901	HALI_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/10/2024 9:02	57303	MOAL_T2	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 9:02	57304	MOAL_T2	38	34	-4	0.36	0.25	-0.11	0	0	0	0	0	0	0	0
4/10/2024 9:02	57306	MOAL_T2	0	0	0	0	0	0	-3.3	-3.28	1	1	0	1200	1200	0
4/10/2024 9:03	64702	LITI_T2	0	0	0	0	0	0	-0.69	-0.63	0	0	0	0	0	0
4/10/2024 9:04	57403	SPAN_T1	0	1	1	0	0.2	0.2	-0.11	-0.12	0	0	0	0	0	0
4/10/2024 9:04	57304	MOAL_T2	38	34	-4	0.36	0.25	-0.11	0	0	0	0	0	0	0	0
4/10/2024 9:04	57401	SPAN_T1	2	4	2	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
4/10/2024 9:04	57303	MOAL_T2	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 9:04	57306	MOAL_T2	0	0	0	0	0	0	-3.3	-3.28	1	1	0	1200	1200	0
4/10/2024 9:04	58402	MORO_T1	0	0	0	0	0	0	-0.26	-0.24	2	2	0	1500	1500	0
4/10/2024 9:05	14603	SWHI_T1	1	5	4	0.2	0.34	0.14	0	0	0	0	0	0	0	0
4/10/2024 9:05	14601	SWHI_T1	0	0	0	0	0	0	-0.98	-1.03	0	0	0	0	0	0
4/10/2024 9:06	57403	SPAN_T1	0	1	1	0	0.2	0.2	-0.11	-0.12	0	0	0	0	0	0
4/10/2024 9:06	65604	QVIL_T2	0	0	0	0	0	0	0.22	0.27	0	0	0	0	0	0
4/10/2024 9:06	57401	SPAN_T1	2	4	2	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
4/10/2024 9:06	11205	ELHE_T1	0	0	0	0	0	0	-0.79	-0.63	1	1	0	1200	1200	0
4/10/2024 9:08	60801	BUCK_T1	16	47	31	0.16	0.27	0.11	-0.2	-0.18	0	0	0	0	0	0
4/10/2024 9:08	60803	BUCK_T1	14	15	1	0.19	0.27	0.08	0	0	0	0	0	0	0	0
4/10/2024 9:09	14603	SWHI_T1	1	5	4	0.2	0.34	0.14	0	0	0	0	0	0	0	0
4/10/2024 9:09	45402	WBLO_T2	1	2	1	0.7	0.75	0.05	-0.91	-0.9	0	0	0	0	0	0
4/10/2024 9:09	14205	EALL_T2	0	0	0	0	0	0	-0.18	-0.22	0	0	0	0	0	0
4/10/2024 9:09	14204	EALL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 9:09	44301	BEAV_T2	0	1	1	0	0	0	0.28	0.62	2	2	0	1500	1500	0
4/10/2024 9:09	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 9:09	14601	SWHI_T1	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
4/10/2024 9:10	60801	BUCK_T1	16	47	31	0.16	0.27	0.11	-0.2	-0.18	0	0	0	0	0	0
4/10/2024 9:10	60803	BUCK_T1	14	15	1	0.19	0.27	0.08	0	0	0	0	0	0	0	0
4/10/2024 9:12	10707	CATA_T2	0	1	1	0	0.1	0.1	0.45	0.33	0	0	0	0	0	0
4/10/2024 9:12	10705	CATA_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
4/10/2024 9:12	44502	HAMI_T2	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
4/10/2024 9:12	44505	HAMI_T2	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
4/10/2024 9:12	10701	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/10/2024 9:13	10705	CATA_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
4/10/2024 9:13	63803	HEMP_T1	0	1	1	0	0.1	0.1	0.03	0.06	0	0	0	0	0	0
4/10/2024 9:13	10707	CATA_T2	0	1	1	0	0.1	0.1	0.45	0.33	0	0	0	0	0	0
4/10/2024 9:13	63804	HEMP_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
4/10/2024 9:13	10701	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/10/2024 9:14	42401	GIMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 9:15	44505	HAMI_T2	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
4/10/2024 9:15	21901	HUMB_T1	0	0	0	0	0	0	-1	-1.03	0	0	0	0	0	0
4/10/2024 9:15	44502	HAMI_T2	1	1	0	3.1	2.9	-0.2	0	0	0	0	0	0	0	0
4/10/2024 9:17	52501	PROG_T1	0	0	0	0	0	0	0.41	0.41	1	1	0	300	300	0
4/10/2024 9:17	44505	HAMI_T2	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
4/10/2024 9:17	44502	HAMI_T2	1	1	0	3.1	2.9	-0.2	0	0	0	0	0	0	0	0
4/10/2024 9:18	52501	PROG_T1	0	0	0	0	0	0	0.41	0.41	1	1	0	300	300	0
4/10/2024 9:19	52501	PROG_T1	0	0	0	0	0	0	0.41	0.41	1	1	0	300	300	0
4/10/2024 9:19	16504	STRO_T1	0	0	0	0	0	0	0.12	0.12	1	1	0	1200	1200	0
4/10/2024 9:20	57304	MOAL_T2	14	66	52	0.15	0.73	0.58	0	0	0	0	0	0	0	0
4/10/2024 9:20	13303	ORVI_T1	0	0	0	0	0	0	-0.24	-0.31	0	0	0	0	0	0
4/10/2024 9:20	14603	SWHI_T1	5	1	-4	0.34	0.5	0.16	0	0	0	0	0	0	0	0
4/10/2024 9:20	57303	MOAL_T2	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
4/10/2024 9:20	57306	MOAL_T2	0	1	1	0	0.2	0.2	-3.28	-3.31	1	1	0	1200	1200	0
4/10/2024 9:20	14601	SWHI_T1	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
4/10/2024 9:22	67605	WARW_T1	42	52	10	0.7	0.72	0.02	-1.21	-1.17	0	0	0	0	0	0
4/10/2024 9:22	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/10/2024 9:22	45901	AUBU_T1	0	0	0	0	0	0	1.8	1.7	0	0	0	0	0	0
4/10/2024 9:23	67402	WAKE_T2	0	0	0	0	0	0	1	1	0	0	0	0	0	0
4/10/2024 9:23	16504	STRO_T1	0	0	0	0	0	0	0.12	0.14	1	1	0	1200	1200	0
4/10/2024 9:25	67401	WAKE_T2	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
4/10/2024 9:27	67605	WARW_T1	42	52	10	0.7	0.72	0.02	-1.17	-1.15	0	0	0	0	0	0
4/10/2024 9:27	40101	HUNT_T2	0	2	2	0	0.1	0.1	-0.14	-0.09	0	0	0	0	0	0
4/10/2024 9:29	50502	MECH_T1	1	1	0	1.9	2.2	0.3	0	0	0	0	0	0	0	0
4/10/2024 9:29	50505	MECH_T1	0	0	0	0	0	0	-0.91	-0.87	0	0	0	0	0	0
4/10/2024 9:29	50501	MECH_T1	4	4	0	0.75	0.98	0.23	0	0	0	0	0	0	0	0
4/10/2024 9:31	55002	NEWP_T1	6	6	0	1.05	1.33	0.28	-0.25	-0.27	0	0	0	0	0	0
4/10/2024 9:33	55002	NEWP_T1	6	6	0	1.05	1.33	0.28	-0.25	-0.27	0	0	0	0	0	0
4/10/2024 9:37	54601	SUMM_T2	13	13	0	0.61	0.85	0.24	-1.89	-1.9	2	2	0	2100	2100	0
4/10/2024 9:37	54602	SUMM_T2	3	8	5	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/10/2024 9:38	10801	CHHI_T1	7	6	-1	0.4	0.52	0.12	-0.75	-0.72	1	1	0	900	900	0
4/10/2024 9:39	15001	BLMO_T1	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
4/10/2024 9:39	67402	WAKE_T2	0	0	0	0	0	0	1	0.96	0	0	0	0	0	0
4/10/2024 9:40	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/10/2024 9:40	15001	BLMO_T1	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
4/10/2024 9:40	67402	WAKE_T2	0	0	0	0	0	0	1	0.96	0	0	0	0	0	0
4/10/2024 9:40	67605	WARW_T1	45	52	7	0.72	0.71	-0.01	-1.15	-1.1	0	0	0	0	0	0
4/10/2024 9:41	15001	BLMO_T1	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
4/10/2024 9:45	63401	HONY_T1	0	0	0	0	0	0	0.55	0.6	0	0	0	0	0	0
4/10/2024 9:46	60501	NMAN_T2	3	3	0	5.17	5.27	0.1	0	0	0	0	0	0	0	0
4/10/2024 9:46	60502	NMAN_T2	0	0	0	0	0	0	-0.3	-0.33	0	0	0	0	0	0
4/10/2024 9:47	52004	LING_T2	1	1	0	0.5	0.6	0.1	0.31	0.3	0	0	0	0	0	0
4/10/2024 9:47	52006	LING_T2	2	3	1	0.75	0.43	-0.32	0	0	0	0	0	0	0	0
4/10/2024 9:47	52002	LING_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
4/10/2024 9:47	67605	WARW_T1	52	45	-7	0.71	0.66	-0.05	-1.15	-1.1	0	0	0	0	0	0
4/10/2024 9:49	51108	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/10/2024 9:49	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 9:49	51107	CARL_T1	0	0	0	0	0	0	0.61	0.56	0	0	0	0	0	0
4/10/2024 9:49	51102	CARL_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/10/2024 9:52	67605	WARW_T1	52	45	-7	0.71	0.66	-0.05	-1.15	-1.1	0	0	0	0	0	0
4/10/2024 9:52	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 9:52	43301	WATS_T2	1	1	0	0.1	0.5	0.4	-0.8	-0.83	1	1	0	900	900	0
4/10/2024 9:53	67803	WLAN_T1	1	3	2	0.1	0.23	0.13	-0.94	-0.94	0	0	0	0	0	0
4/10/2024 9:53	67804	WLAN_T1	1	6	5	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/10/2024 9:59	63804	HEMP_T1	1	1	0	6.5	6.7	0.2	0	0	0	0	0	0	0	0
4/10/2024 9:59	63802	HEMP_T1	0	0	0	0	0	0	0.32	0.36	0	0	0	0	0	0
4/10/2024 10:00	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-0.53	-0.39	1	1	0	1200	1200	0
4/10/2024 10:00	64303	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 10:00	57106	SPHI_T2	3	3	0	1.2	1.33	0.13	0	0	0	0	0	0	0	0
4/10/2024 10:00	23403	HONE_T1	0	0	0	0	0	0	-0.76	-0.75	0	0	0	0	0	0
4/10/2024 10:00	57403	SPAN_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
4/10/2024 10:00	66303	MCGO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/10/2024 10:00	63801	HEMP_T1	0	0	0	0	0	0	0.12	0.53	0	0	0	0	0	0
4/10/2024 10:00	24105	EHAZ_T1	4	4	0	6.2	6.35	0.15	-0.73	-0.77	1	1	0	1200	1200	0
4/10/2024 10:00	45602	WOOL_T1	0	1	1	0	0.4	0.4	0.43	0.41	0	0	0	0	0	0
4/10/2024 10:00	53901	HALI_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/10/2024 10:00	67401	WAKE_T2	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
4/10/2024 10:00	56501	ROCK_T2	2	2	0	0.7	0.75	0.05	-0.01	-0.01	0	0	0	0	0	0
4/10/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.1	-0.09	1	1	0	600	600	0
4/10/2024 10:00	65702	RVIL_T2	0	0	0	0	0	0	-0.6	-0.57	0	0	0	0	0	0
4/10/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	0.06	0.03	1	1	0	1200	1200	0
4/10/2024 10:00	53902	HALI_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
4/10/2024 10:00	60701	BREC_T1	0	1	1	0	0	0	-0.29	-0.33	2	2	0	1200	1200	0
4/10/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
4/10/2024 10:00	53903	HALI_T2	2	2	0	1.15	1.2	0.05	-0.21	-0.22	0	0	0	0	0	0
4/10/2024 10:00	65003	NEFF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/10/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
4/10/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	0	0.08	0	0	0	0	0	0
4/10/2024 10:00	44502	HAMI_T2	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
4/10/2024 10:00	63804	HEMP_T1	1	1	0	6.7	6.5	-0.2	0	0	0	0	0	0	0	0
4/10/2024 10:00	57104	SPHI_T2	1	1	0	7.7	1	-6.7	-0.21	-0.21	0	0	0	0	0	0
4/10/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
4/10/2024 10:00	63803	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/10/2024 10:00	40601	PIGR_T1	0	11	11	0	0.16	0.16	0	0	0	0	0	0	0	0
4/10/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
4/10/2024 10:00	65604	QVIL_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
4/10/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-0.72	-0.74	1	1	0	600	600	0
4/10/2024 10:00	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/10/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.47	0.43	0	0	0	0	0	0
4/10/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	-0.6	-0.59	1	1	0	600	600	0
4/10/2024 10:00	65802	RTWN_T2	2	2	0	0.3	0.3	0	-0.52	-0.55	0	0	0	0	0	0
4/10/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/10/2024 10:00	67402	WAKE_T2	0	2	2	0	0	0	1.93	1.91	0	0	0	0	0	0
4/10/2024 10:00	42201	SHEN_T2	0	1	1	0	0	0	0	0	1	1	0	600	600	0
4/10/2024 10:00	60101	COCA_T1	0	0	0	0	0	0	0.25	0.36	0	0	0	0	0	0
4/10/2024 10:00	57401	SPAN_T1	3	2	-1	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
4/10/2024 10:00	57101	SPHI_T2	6	6	0	1.03	1.17	0.14	0	0	0	0	0	0	0	0
4/10/2024 10:00	54001	SDLE_T1	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/10/2024 10:00	44505	HAMI_T2	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
4/10/2024 10:00	40101	HUNT_T2	3	4	1	0.17	0	-0.17	-0.24	-0.17	0	0	0	0	0	0
4/10/2024 10:00	17002	RIRO_T2	130	0	-130	0.21	0	-0.21	0.64	0.7	0	0	0	0	0	0
4/10/2024 10:00	46206	DANV_T2	0	0	0	0	0	0	2.4	2.49	1	1	0	1200	1200	0
4/10/2024 10:00	23404	HONE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/10/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.29	0.33	0	0	0	0	0	0
4/10/2024 10:00	45501	DERR_T2	0	1	1	0	0.1	0.1	0.55	0.54	2	2	0	1800	1800	0
4/10/2024 10:00	45502	DERR_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/10/2024 10:00	14603	SWHI_T1	1	0	-1	0.1	0	-0.1	-1.1	-1.12	1	1	0	600	600	0
4/10/2024 10:00	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 10:00	40602	PIGR_T1	0	0	0	0	0	0	-0.65	-0.65	1	1	0	600	600	0
4/10/2024 10:00	48302	ORWI_T2	2	2	0	1.15	1.15	0	0.02	0.04	0	0	0	0	0	0
4/10/2024 10:03	66502	SMAN_T2	0	0	0	0	0	0	0.27	0.37	0	0	0	0	0	0
4/10/2024 10:04	67203	TEHI_T1	3	4	1	0.53	0.6	0.07	2.74	2.74	2	2	0	1200	1200	0
4/10/2024 10:04	67201	TEHI_T1	1	7	6	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/10/2024 10:05	66503	SMAN_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
4/10/2024 10:05	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 10:06	10801	CHHI_T1	4	3	-1	0.45	0.3	-0.15	-0.72	-0.9	1	1	0	900	900	0
4/10/2024 10:06	60801	BUCK_T1	12	24	12	0.18	0.2	0.02	-0.12	-0.11	0	0	0	0	0	0
4/10/2024 10:06	45402	WBLO_T2	9	2	-7	0.34	0.9	0.56	-0.88	-0.86	0	0	0	0	0	0
4/10/2024 10:06	60803	BUCK_T1	11	14	3	0.15	0.22	0.07	0	0	0	0	0	0	0	0
4/10/2024 10:06	40101	HUNT_T2	3	4	1	0.17	0	-0.17	-0.12	-0.09	0	0	0	0	0	0
4/10/2024 10:06	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 10:07	46004	BERW_T2	0	0	0	0	0	0	-0.22	-0.16	0	0	0	0	0	0
4/10/2024 10:07	58402	MORO_T1	0	0	0	0	0	0	-0.16	-0.17	2	2	0	1500	1500	0
4/10/2024 10:07	12502	MITR_T2	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
4/10/2024 10:07	42301	MOWR_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
4/10/2024 10:07	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 10:07	45402	WBLO_T2	9	2	-7	0.34	0.9	0.56	-0.88	-0.86	0	0	0	0	0	0
4/10/2024 10:07	60803	BUCK_T1	11	14	3	0.15	0.22	0.07	0	0	0	0	0	0	0	0
4/10/2024 10:07	67603	WARW_T1	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
4/10/2024 10:07	60801	BUCK_T1	12	24	12	0.18	0.2	0.02	-0.12	-0.11	0	0	0	0	0	0
4/10/2024 10:07	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
4/10/2024 10:07	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 10:07	42302	MOWR_T2	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
4/10/2024 10:07	40101	HUNT_T2	3	4	1	0.17	0	-0.17	-0.12	-0.09	0	0	0	0	0	0
4/10/2024 10:07	58001	WCAR_T1	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
4/10/2024 10:07	10801	CHHI_T1	4	3	-1	0.45	0.3	-0.15	-0.72	-0.9	1	1	0	900	900	0
4/10/2024 10:07	45602	WOOL_T1	0	1	1	0	0.4	0.4	0.43	0.41	0	0	0	0	0	0
4/10/2024 10:07	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
4/10/2024 10:07	42902	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/10/2024 10:07	12505	MITR_T2	0	0	0	0	0	0	1.36	1.66	0	0	0	0	0	0
4/10/2024 10:07	58803	COCO_T1	1	1	0	2.1	1.8	-0.3	0	0	0	0	0	0	0	0
4/10/2024 10:07	67605	WARW_T1	45	39	-6	0.65	0.61	-0.04	0	0	0	0	0	0	0	0
4/10/2024 10:07	42903	MIDD_T2	0	0	0	0	0	0	0.47	0.4	1	1	0	1200	1200	0
4/10/2024 10:07	58003	WCAR_T1	1	1	0	0.2	0.4	0.2	0.05	0.05	1	1	0	600	600	0
4/10/2024 10:07	15103	UPHA_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
4/10/2024 10:07	57401	SPAN_T1	3	2	-1	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
4/10/2024 10:07	53802	MBRG_T2	0	0	0	0	0	0	0.59	0.67	0	0	0	0	0	0
4/10/2024 10:07	57403	SPAN_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
4/10/2024 10:07	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/10/2024 10:08	66502	SMAN_T2	0	0	0	0	0	0	0.37	0.31	0	0	0	0	0	0
4/10/2024 10:08	25603	ARRO_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
4/10/2024 10:08	40302	TAMA_T3	10	9	-1	0.46	0.36	-0.1	0.29	0.41	0	0	0	0	0	0
4/10/2024 10:08	40303	TAMA_T3	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/10/2024 10:08	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 10:09	67703	WERN_T2	0	0	0	0	0	0	-0.37	-0.34	1	1	0	900	900	0
4/10/2024 10:10	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
4/10/2024 10:10	67703	WERN_T2	0	0	0	0	0	0	-0.74	-0.69	2	2	0	1800	1800	0
4/10/2024 10:10	10801	CHHI_T1	4	3	-1	0.45	0.3	-0.15	-0.9	-0.79	1	1	0	900	900	0
4/10/2024 10:11	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 10:11	60803	BUCK_T1	11	14	3	0.15	0.22	0.07	0	0	0	0	0	0	0	0
4/10/2024 10:11	60801	BUCK_T1	12	24	12	0.18	0.2	0.02	-0.11	-0.11	0	0	0	0	0	0
4/10/2024 10:11	67703	WERN_T2	0	0	0	0	0	0	-0.37	-0.34	1	1	0	900	900	0
4/10/2024 10:12	24902	WHHA_T1	2	82	80	1.3	0.67	-0.63	0	0	0	0	0	0	0	0
4/10/2024 10:14	64702	LITI_T2	0	0	0	0	0	0	-0.61	-0.5	0	0	0	0	0	0
4/10/2024 10:14	24902	WHHA_T1	2	82	80	1.3	0.67	-0.63	0	0	0	0	0	0	0	0
4/10/2024 10:16	55002	NEWP_T1	4	6	2	1.23	1.23	0	-0.28	-0.3	0	0	0	0	0	0
4/10/2024 10:17	64702	LITI_T2	0	0	0	0	0	0	-0.61	-0.5	0	0	0	0	0	0
4/10/2024 10:18	64702	LITI_T2	0	0	0	0	0	0	-0.61	-0.5	0	0	0	0	0	0
4/10/2024 10:18	60501	NMAN_T2	3	5	2	5.27	3.3	-1.97	0	0	0	0	0	0	0	0
4/10/2024 10:18	60502	NMAN_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
4/10/2024 10:18	40601	PIGR_T1	4	12	8	0.13	0.18	0.05	0.23	0.12	0	0	0	0	0	0
4/10/2024 10:20	65901	SAKR_T2	1	1	0	9	9	0	-1.22	-1.22	1	1	0	900	900	0
4/10/2024 10:20	40601	PIGR_T1	4	12	8	0.13	0.18	0.05	0.23	0.12	0	0	0	0	0	0
4/10/2024 10:21	66701	STRA_T1	1	1	0	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
4/10/2024 10:21	66703	STRA_T1	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
4/10/2024 10:21	67501	WEWI_T1	6	7	1	0.37	0.41	0.04	-1.18	-1.13	1	1	0	600	600	0
4/10/2024 10:21	67505	WEWI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/10/2024 10:23	66701	STRA_T1	1	1	0	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
4/10/2024 10:23	66703	STRA_T1	0	0	0	0	0	0	-0.15	-0.06	0	0	0	0	0	0
4/10/2024 10:24	10701	CATA_T2	0	0	0	0	0	0	-0.59	-0.59	1	1	0	1200	1200	0
4/10/2024 10:24	10705	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 10:25	67702	WERN_T2	0	1	1	0	0.5	0.5	-0.09	-0.01	0	0	0	0	0	0
4/10/2024 10:25	67703	WERN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 10:25	67701	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/10/2024 10:25	67402	WAKE_T2	0	0	0	0	0	0	0.97	1.01	0	0	0	0	0	0
4/10/2024 10:25	67401	WAKE_T2	0	6	6	0	0.48	0.48	0	0	0	0	0	0	0	0
4/10/2024 10:28	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 10:28	11201	ELHE_T2	0	0	0	0	0	0	-0.44	-0.39	2	2	0	2400	2400	0
4/10/2024 10:30	63801	HEMP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/10/2024 10:30	45702	LIND_T2	1	0	-1	0.5	0	-0.5	-0.52	-0.51	0	0	0	0	0	0
4/10/2024 10:30	63804	HEMP_T1	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
4/10/2024 10:30	57304	MOAL_T2	65	65	0	0.54	0.62	0.08	0	0	0	0	0	0	0	0
4/10/2024 10:30	46001	BERW_T1	0	0	0	0	0	0	0.34	0.16	0	0	0	0	0	0
4/10/2024 10:30	63802	HEMP_T1	0	0	0	0	0	0	0.39	0.44	0	0	0	0	0	0
4/10/2024 10:30	57301	MOAL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
4/10/2024 10:30	63803	HEMP_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/10/2024 10:30	57303	MOAL_T2	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
4/10/2024 10:30	57306	MOAL_T2	0	0	0	0	0	0	-3.32	-3.32	1	1	0	1200	1200	0
4/10/2024 10:32	65503	MOJO_T2	0	8	8	0	0.34	0.34	-1.2	-1.13	1	1	0	900	900	0
4/10/2024 10:33	65502	MOJO_T2	0	0	0	0	0	0	-0.34	-0.17	0	0	0	0	0	0
4/10/2024 10:33	65503	MOJO_T2	0	8	8	0	0.34	0.34	0	0	0	0	0	0	0	0
4/10/2024 10:34	65503	MOJO_T2	0	8	8	0	0.34	0.34	-1.2	-1.13	1	1	0	900	900	0
4/10/2024 10:35	58402	MORO_T1	0	0	0	0	0	0	-0.2	-0.2	2	2	0	1500	1500	0
4/10/2024 10:38	67603	WARW_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
4/10/2024 10:38	54601	SUMM_T2	13	13	0	0.73	0.88	0.15	-1.89	-1.9	2	2	0	2100	2100	0
4/10/2024 10:38	67605	WARW_T1	35	50	15	0.63	0.75	0.12	-1.15	-1.11	0	0	0	0	0	0
4/10/2024 10:38	67401	WAKE_T2	4	7	3	0.38	0.46	0.08	-0.89	-0.86	0	0	0	0	0	0
4/10/2024 10:38	54602	SUMM_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
4/10/2024 10:39	67603	WARW_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
4/10/2024 10:39	50501	MECH_T1	4	4	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
4/10/2024 10:39	50505	MECH_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
4/10/2024 10:39	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 10:39	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.44	0.3	2	2	0	1800	1800	0
4/10/2024 10:39	50502	MECH_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 10:39	67605	WARW_T1	35	50	15	0.63	0.75	0.12	0	0	0	0	0	0	0	0
4/10/2024 10:42	67605	WARW_T1	35	50	15	0.63	0.75	0.12	-1.15	-1.11	0	0	0	0	0	0
4/10/2024 10:42	67603	WARW_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
4/10/2024 10:43	41301	FISH_T1	2	2	0	1.8	2	0.2	-0.05	-0.06	0	0	0	0	0	0
4/10/2024 10:44	41301	FISH_T1	2	2	0	1.8	2	0.2	-0.05	-0.06	0	0	0	0	0	0
4/10/2024 10:47	65205	PRIN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/10/2024 10:47	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 10:48	59002	MIFF_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/10/2024 10:48	24202	PROV_T4	1	1	0	9.8	8.7	-1.1	-1.03	-0.96	1	1	0	1200	1200	0
4/10/2024 10:48	59003	MIFF_T1	0	0	0	0	0	0	-0.2	-0.09	0	0	0	0	0	0
4/10/2024 10:48	64101	REFR_T1	0	0	0	0	0	0	0	-0.93	-0.91	0	0	0	0	0
4/10/2024 10:49	60504	NMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
4/10/2024 10:49	60501	NMAN_T2	5	31	26	3.3	0.7	-2.6	0	0	0	0	0	0	0	0
4/10/2024 10:49	60502	NMAN_T2	0	1	1	0	0.2	0.2	-0.27	-0.24	0	0	0	0	0	0
4/10/2024 10:49	55002	NEWP_T1	6	6	0	1.23	1.2	-0.03	-0.29	-0.29	0	0	0	0	0	0
4/10/2024 10:50	67204	TEHI_T2	0	1	1	0	0.1	0.1	-0.11	-0.1	0	0	0	0	0	0
4/10/2024 10:51	61103	BERK_T5	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/10/2024 10:51	61101	BERK_T5	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
4/10/2024 10:52	41902	REED_T1	0	0	0	0	0	0	1.11	1.06	0	0	0	0	0	0
4/10/2024 10:52	64101	REFR_T1	0	0	0	0	0	0	-0.93	-0.91	0	0	0	0	0	0
4/10/2024 10:53	61103	BERK_T5	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/10/2024 10:53	61101	BERK_T5	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
4/10/2024 10:53	45902	AUBU_T1	0	0	0	0	0	0	-0.59	-0.57	1	1	0	600	600	0
4/10/2024 10:54	60101	COCA_T1	0	1	1	0	0.2	0.2	0.28	0.28	0	0	0	0	0	0
4/10/2024 10:54	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 10:54	45902	AUBU_T1	0	0	0	0	0	0	-0.59	-0.57	1	1	0	600	600	0
4/10/2024 10:56	45902	AUBU_T1	0	0	0	0	0	0	-0.59	-0.57	1	1	0	600	600	0
4/10/2024 10:59	20603	GRWO_T2	2	1	-1	0.2	0.2	0	0.31	0.29	0	0	0	0	0	0
4/10/2024 11:00	57301	MOAL_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/10/2024 11:00	57303	MOAL_T2	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
4/10/2024 11:00	57304	MOAL_T2	63	65	2	0.54	0.7	0.16	0	0	0	0	0	0	0	0
4/10/2024 11:00	60101	COCA_T1	1	1	0	0.2	0.1	-0.1	0.28	0.28	0	0	0	0	0	0
4/10/2024 11:00	57306	MOAL_T2	0	0	0	0	0	0	-3.32	-3.32	1	1	0	1200	1200	0
4/10/2024 11:01	47401	PENS_T1	0	1	1	0	0	0	0.83	0.88	0	0	0	0	0	0
4/10/2024 11:01	47403	PENS_T1	1	2	1	1.9	1.15	-0.75	0	0	0	0	0	0	0	0
4/10/2024 11:02	57301	MOAL_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/10/2024 11:02	57303	MOAL_T2	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/10/2024 11:02	57304	MOAL_T2	63	65	2	0.54	0.7	0.16	0	0	0	0	0	0	0	0
4/10/2024 11:02	57306	MOAL_T2	0	0	0	0	0	0	-3.32	-3.32	1	1	0	1200	1200	0
4/10/2024 11:03	64801	MONE_T2	43	53	10	0.17	0.2	0.03	0	0	0	0	0	0	0	0
4/10/2024 11:03	64802	MONE_T2	89	127	38	0.25	0.26	0.01	0.28	0.27	0	0	0	0	0	0
4/10/2024 11:05	57304	MOAL_T2	63	65	2	0.54	0.7	0.16	0	0	0	0	0	0	0	0
4/10/2024 11:05	57306	MOAL_T2	0	0	0	0	0	0	-6.64	-6.64	2	2	0	2400	2400	0
4/10/2024 11:05	57301	MOAL_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/10/2024 11:05	57303	MOAL_T2	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
4/10/2024 11:10	67604	WARW_T1	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
4/10/2024 11:10	67603	WARW_T1	3	1	-2	0.27	0.5	0.23	0	0	0	0	0	0	0	0
4/10/2024 11:10	67605	WARW_T1	47	49	2	0.72	0.68	-0.04	0	0	0	0	0	0	0	0
4/10/2024 11:10	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 11:12	67605	WARW_T1	47	49	2	0.72	0.68	-0.04	-1.1	-1.1	0	0	0	0	0	0
4/10/2024 11:12	67603	WARW_T1	3	1	-2	0.27	0.5	0.23	0	0	0	0	0	0	0	0
4/10/2024 11:16	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 11:16	55002	NEWP_T1	6	6	0	1.07	1.2	0.13	-0.27	-0.23	0	0	0	0	0	0
4/10/2024 11:17	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 11:17	67603	WARW_T1	1	3	2	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
4/10/2024 11:17	67605	WARW_T1	40	78	38	0.68	0.6	-0.08	-1.1	-1.1	0	0	0	0	0	0
4/10/2024 11:19	46301	ROHR_T1	137	100	-37	0.27	0.19	-0.08	0.32	0.24	0	0	0	0	0	0
4/10/2024 11:19	46302	ROHR_T1	11	6	-5	1.1	1.68	0.58	0	0	0	0	0	0	0	0
4/10/2024 11:20	64204	KINZ_T1	3	2	-1	0.67	0.65	-0.02	0	0	0	0	0	0	0	0
4/10/2024 11:20	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 11:20	67204	TEHI_T2	0	1	1	0	0.6	0.6	-0.1	-0.09	0	0	0	0	0	0
4/10/2024 11:20	14603	SWHI_T1	4	5	1	0.38	0.28	-0.1	0	0	0	0	0	0	0	0
4/10/2024 11:20	51108	CARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/10/2024 11:20	51101	CARL_T1	0	0	0	0	0	0	-1.2	-1.19	1	1	0	600	600	0
4/10/2024 11:20	51102	CARL_T1	3	5	2	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
4/10/2024 11:20	64202	KINZ_T1	3	3	0	0.53	0.53	0	0.71	0.78	0	0	0	0	0	0
4/10/2024 11:21	67204	TEHI_T2	0	1	1	0	0.6	0.6	-0.1	-0.09	0	0	0	0	0	0
4/10/2024 11:21	58402	MORO_T1	0	0	0	0	0	0	-0.17	-0.15	2	2	0	1500	1500	0
4/10/2024 11:22	58402	MORO_T1	0	0	0	0	0	0	-0.17	-0.15	2	2	0	1500	1500	0
4/10/2024 11:22	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 11:22	67703	WERN_T2	0	0	0	0	0	0	-0.31	-0.33	1	1	0	900	900	0
4/10/2024 11:22	67702	WERN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/10/2024 11:22	67701	WERN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/10/2024 11:22	14603	SWHI_T1	4	5	1	0.38	0.28	-0.1	0	0	0	0	0	0	0	0
4/10/2024 11:23	45902	AUBU_T1	0	0	0	0	0	0	-0.66	-0.61	1	1	0	600	600	0
4/10/2024 11:24	67605	WARW_T1	40	78	38	0.68	0.6	-0.08	-1.1	-1.09	0	0	0	0	0	0
4/10/2024 11:24	67603	WARW_T1	1	3	2	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
4/10/2024 11:24	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 11:24	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 11:25	45902	AUBU_T1	0	0	0	0	0	0	-0.66	-0.61	1	1	0	600	600	0
4/10/2024 11:25	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 11:26	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 11:26	10801	CHHI_T1	2	5	3	0.15	0.34	0.19	-0.76	-0.76	1	1	0	900	900	0
4/10/2024 11:26	45902	AUBU_T1	0	0	0	0	0	0	-0.66	-0.61	1	1	0	600	600	0
4/10/2024 11:27	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 11:27	67605	WARW_T1	40	78	38	0.68	0.6	-0.08	-1.1	-1.09	0	0	0	0	0	0
4/10/2024 11:27	67603	WARW_T1	1	3	2	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
4/10/2024 11:27	11805	FRAN_T1	0	1	1	0	0.2	0.2	-1.39	-1.4	1	1	0	1200	1200	0
4/10/2024 11:27	11801	FRAN_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
4/10/2024 11:31	42903	MIDD_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/10/2024 11:31	42902	MIDD_T2	1	2	1	0.2	1	0.8	-0.25	-0.27	0	0	0	0	0	0
4/10/2024 11:32	60501	NMAN_T2	3	17	14	6	1.14	-4.86	0	0	0	0	0	0	0	0
4/10/2024 11:32	60502	NMAN_T2	0	3	3	0	0.33	0.33	-0.14	-0.28	0	0	0	0	0	0
4/10/2024 11:32	67603	WARW_T1	1	3	2	0.3	0.57	0.27	0	0	0	0	0	0	0	0
4/10/2024 11:32	67604	WARW_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/10/2024 11:32	60504	NMAN_T2	1	2	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/10/2024 11:32	67605	WARW_T1	47	79	32	0.69	0.61	-0.08	-1.1	-1.09	0	0	0	0	0	0
4/10/2024 11:33	60502	NMAN_T2	0	3	3	0	0.33	0.33	-0.14	-0.28	0	0	0	0	0	0
4/10/2024 11:33	60501	NMAN_T2	3	17	14	6	1.14	-4.86	0	0	0	0	0	0	0	0
4/10/2024 11:33	60504	NMAN_T2	1	2	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/10/2024 11:35	58001	WCAR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/10/2024 11:35	58003	WCAR_T1	1	1	0	0.5	0.4	-0.1	0.05	0.06	1	1	0	600	600	0
4/10/2024 11:36	60501	NMAN_T2	3	17	14	6	1.14	-4.86	0	0	0	0	0	0	0	0
4/10/2024 11:36	60504	NMAN_T2	1	2	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/10/2024 11:36	60502	NMAN_T2	0	3	3	0	0.33	0.33	-0.14	-0.28	0	0	0	0	0	0
4/10/2024 11:36	45303	WBER_T2	0	1	1	0	0.1	0.1	0.24	0.22	0	0	0	0	0	0
4/10/2024 11:36	58003	WCAR_T1	1	1	0	0.5	0.4	-0.1	0.1	0.12	2	2	0	1200	1200	0
4/10/2024 11:36	58001	WCAR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/10/2024 11:37	44301	BEAV_T2	1	1	0	1	0	-1	0.84	0.97	2	2	0	1500	1500	0
4/10/2024 11:37	67201	TEHI_T1	9	1	-8	0.21	0.2	-0.01	1.36	1.38	1	1	0	600	600	0
4/10/2024 11:37	15103	UPHA_T2	0	2	2	0	0.55	0.55	0.33	0.38	0	0	0	0	0	0
4/10/2024 11:37	67203	TEHI_T1	2	0	-2	0.85	0	-0.85	0	0	0	0	0	0	0	0
4/10/2024 11:38	67605	WARW_T1	47	79	32	0.69	0.61	-0.08	-1.09	-1.05	0	0	0	0	0	0
4/10/2024 11:38	67604	WARW_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/10/2024 11:38	60501	NMAN_T2	3	17	14	6	1.14	-4.86	0	0	0	0	0	0	0	0
4/10/2024 11:38	60504	NMAN_T2	1	2	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/10/2024 11:38	60502	NMAN_T2	0	3	3	0	0.33	0.33	-0.28	-0.19	0	0	0	0	0	0
4/10/2024 11:38	45303	WBER_T2	0	1	1	0	0.1	0.1	0.22	0.23	0	0	0	0	0	0
4/10/2024 11:38	67603	WARW_T1	1	3	2	0.3	0.57	0.27	0	0	0	0	0	0	0	0
4/10/2024 11:39	67604	WARW_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/10/2024 11:39	67605	WARW_T1	47	79	32	0.69	0.61	-0.08	0	0	0	0	0	0	0	0
4/10/2024 11:39	67603	WARW_T1	1	3	2	0.3	0.57	0.27	-0.04	0	0	0	0	0	0	0
4/10/2024 11:39	15803	WGAT_T1	0	0	0	0	0	0	1.36	1.35	0	0	0	0	0	0
4/10/2024 11:39	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.67	1	1	0	600	600	0
4/10/2024 11:39	67502	WEWI_T2	2	7	5	0.75	0.46	-0.29	-0.16	-0.2	0	0	0	0	0	0
4/10/2024 11:40	15803	WGAT_T1	0	0	0	0	0	0	1.36	1.35	0	0	0	0	0	0
4/10/2024 11:40	60901	DONG_T2	1	8	7	0.1	0.51	0.41	0	0	0	0	0	0	0	0
4/10/2024 11:40	67502	WEWI_T2	2	7	5	0.75	0.46	-0.29	-0.16	-0.2	0	0	0	0	0	0
4/10/2024 11:40	60904	DONG_T2	0	3	3	0	0.25	0.25	0	0	0	0	0	0	0	0
4/10/2024 11:40	60902	DONG_T2	0	1	1	0	0.4	0.4	0.88	0.94	0	0	0	0	0	0
4/10/2024 11:40	45303	WBER_T2	0	1	1	0	0.1	0.1	0.22	0.23	0	0	0	0	0	0
4/10/2024 11:40	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.67	1	1	0	600	600	0
4/10/2024 11:41	63801	HEMP_T1	5	3	-2	0.22	0.23	0.01	0.37	0.34	0	0	0	0	0	0
4/10/2024 11:41	63803	HEMP_T1	4	3	-1	0.28	0.3	0.02	0	0	0	0	0	0	0	0
4/10/2024 11:41	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.67	1	1	0	600	600	0
4/10/2024 11:41	63804	HEMP_T1	1	1	0	6.2	6.5	0.3	0	0	0	0	0	0	0	0
4/10/2024 11:42	67603	WARW_T1	1	3	2	0.3	0.57	0.27	0	0	0	0	0	0	0	0
4/10/2024 11:42	67605	WARW_T1	47	79	32	0.69	0.61	-0.08	-1.09	-1.05	0	0	0	0	0	0
4/10/2024 11:42	67604	WARW_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/10/2024 11:43	67603	WARW_T1	1	3	2	0.3	0.57	0.27	-0.04	0	0	0	0	0	0	0
4/10/2024 11:43	67605	WARW_T1	47	79	32	0.69	0.61	-0.08	0	0	0	0	0	0	0	0
4/10/2024 11:43	67604	WARW_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/10/2024 11:44	42401	GIMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 11:45	42902	MIDD_T2	2	2	0	1	0.65	-0.35	-0.27	-0.24	0	0	0	0	0	0
4/10/2024 11:45	42903	MIDD_T2	0	2	2	0	1	1	0	0	0	0	0	0	0	0
4/10/2024 11:46	53902	HALI_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
4/10/2024 11:46	53903	HALI_T2	2	2	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
4/10/2024 11:46	53901	HALI_T2	1	1	0	0.5	0.4	-0.1	-1.09	-1.13	0	0	0	0	0	0
4/10/2024 11:47	67603	WARW_T1	3	7	4	0.33	0.49	0.16	0	0	0	0	0	0	0	0
4/10/2024 11:47	67604	WARW_T1	1	6	5	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/10/2024 11:47	67605	WARW_T1	77	77	0	0.6	0.62	0.02	-1.09	-1.05	0	0	0	0	0	0
4/10/2024 11:48	42201	SHEN_T2	0	0	0	0	0	0	-0.01	-0.05	1	1	0	600	600	0
4/10/2024 11:52	60701	BREC_T1	3	4	1	0.13	0.43	0.3	-0.28	-0.27	2	2	0	1200	1200	0
4/10/2024 11:52	15103	UPHA_T2	2	2	0	0.3	0.9	0.6	0.38	0.35	0	0	0	0	0	0
4/10/2024 11:52	67204	TEHI_T2	1	3	2	0.6	0.43	-0.17	-0.11	-0.08	0	0	0	0	0	0
4/10/2024 11:53	60701	BREC_T1	3	4	1	0.13	0.43	0.3	-0.8	-1.05	6	6	0	3600	3600	0
4/10/2024 11:53	67204	TEHI_T2	1	3	2	0.6	0.43	-0.17	-0.08	-0.11	0	0	0	0	0	0
4/10/2024 11:54	60701	BREC_T1	3	4	1	0.13	0.43	0.3	-0.27	-0.35	2	2	0	1200	1200	0
4/10/2024 11:54	66505	SMAN_T2	0	0	0	0	0	0	0.62	0.57	2	2	0	1100	1100	0
4/10/2024 11:54	66501	SMAN_T2	2	2	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
4/10/2024 11:54	66502	SMAN_T2	4	15	11	0.38	0.47	0.09	0	0	0	0	0	0	0	0
4/10/2024 11:54	66503	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/10/2024 11:54	66504	SMAN_T2	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
4/10/2024 11:55	61303	EARL_T1	0	0	0	0	0	0	0.59	0.55	0	0	0	0	0	0
4/10/2024 11:55	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/10/2024 11:56	61101	BERK_T5	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/10/2024 11:56	61102	BERK_T5	0	0	0	0	0	0	0.62	0.63	1	1	0	300	300	0
4/10/2024 11:56	60701	BREC_T1	3	4	1	0.13	0.43	0.3	-0.54	-0.7	4	4	0	2400	2400	0
4/10/2024 11:57	67605	WARW_T1	77	77	0	0.6	0.62	0.02	-1.05	-1.06	0	0	0	0	0	0
4/10/2024 11:57	67604	WARW_T1	1	6	5	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/10/2024 11:57	67603	WARW_T1	3	7	4	0.33	0.49	0.16	0	0	0	0	0	0	0	0
4/10/2024 11:57	21606	EYNO_T1	0	0	0	0	0	0	-0.98	-0.97	1	1	0	1200	1200	0
4/10/2024 11:58	64803	LINC_T1	0	0	0	0	0	0	-0.15	-0.21	0	0	0	0	0	0
4/10/2024 11:58	61303	EARL_T1	0	0	0	0	0	0	1.17	1.1	0	0	0	0	0	0
4/10/2024 11:58	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/10/2024 11:59	61302	EARL_T1	0	1	1	0	0.2	0.2	0.89	0.46	2	2	0	1800	1800	0
4/10/2024 11:59	64305	LINC_T1	0	0	0	0	0	0	0.09	-0.04	0	0	0	0	0	0
4/10/2024 11:59	64303	LINC_T1	0	0	0	0	0	0	-0.15	-0.21	0	0	0	0	0	0
4/10/2024 12:02	67604	WARW_T1	2	6	4	0.25	0.4	0.15	0	0	0	0	0	0	0	0
4/10/2024 12:02	55002	NEWP_T1	8	7	-1	0.93	1.3	0.37	-0.24	-0.25	0	0	0	0	0	0
4/10/2024 12:02	67605	WARW_T1	63	63	0	0.67	0.69	0.02	-1.05	-1.06	0	0	0	0	0	0
4/10/2024 12:02	67603	WARW_T1	3	7	4	0.47	0.5	0.03	0	0	0	0	0	0	0	0
4/10/2024 12:04	13103	NHAM_T2	0	1	1	0	0	0	-1.74	-1.66	1	1	0	600	600	0
4/10/2024 12:05	47403	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/10/2024 12:05	55002	NEWP_T1	8	7	-1	0.93	1.3	0.37	-0.24	-0.25	0	0	0	0	0	0
4/10/2024 12:05	47401	PENS_T1	0	1	1	0	0	0	0.98	0.91	0	0	0	0	0	0
4/10/2024 12:05	47402	PENS_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/10/2024 12:08	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/10/2024 12:08	61101	BERK_T5	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/10/2024 12:10	51603	DUKE_T1	0	0	0	0	0	0	39.86	39.87	0	0	0	0	0	0
4/10/2024 12:12	67605	WARW_T1	63	63	0	0.67	0.69	0.02	-1.06	-1.07	0	0	0	0	0	0
4/10/2024 12:12	67603	WARW_T1	3	7	4	0.47	0.5	0.03	0	0	0	0	0	0	0	0
4/10/2024 12:12	51603	DUKE_T1	0	0	0	0	0	0	39.86	39.87	0	0	0	0	0	0
4/10/2024 12:12	67604	WARW_T1	2	6	4	0.25	0.4	0.15	0	0	0	0	0	0	0	0
4/10/2024 12:13	11801	FRAN_T2	0	1	1	0	0.3	0.3	0.12	0.11	0	0	0	0	0	0
4/10/2024 12:13	61304	EARL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/10/2024 12:13	11803	FRAN_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
4/10/2024 12:13	61302	EARL_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/10/2024 12:13	51603	DUKE_T1	0	0	0	0	0	0	39.86	39.87	0	0	0	0	0	0
4/10/2024 12:13	61303	EARL_T1	0	0	0	0	0	0	0.55	0.57	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/10/2024 12:14	13501	MCMI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/10/2024 12:14	14203	EALL_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
4/10/2024 12:14	59301	MCAL_T1	4	26	22	0.63	0.33	-0.3	0	0	0	0	0	0	0	0
4/10/2024 12:14	59302	MCAL_T1	0	3	3	0	0.3	0.3	-0.3	-0.31	1	1	0	600	600	0
4/10/2024 12:14	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 12:14	63302	GREE_T1	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
4/10/2024 12:14	63602	LETO_T1	1	6	5	0.4	0.4	0	-0.44	-0.4	0	0	0	0	0	0
4/10/2024 12:14	14201	EALL_T1	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
4/10/2024 12:15	63306	GREE_T1	0	0	0	0	0	0	-1.37	-1.37	1	1	0	900	900	0
4/10/2024 12:17	67604	WARW_T1	6	5	-1	0.4	0.24	-0.16	0	0	0	0	0	0	0	0
4/10/2024 12:17	51401	LYKE_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
4/10/2024 12:17	67605	WARW_T1	63	50	-13	0.68	0.72	0.04	-1.06	-1.07	0	0	0	0	0	0
4/10/2024 12:17	51402	LYKE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 12:17	67603	WARW_T1	7	5	-2	0.49	0.54	0.05	0	0	0	0	0	0	0	0
4/10/2024 12:18	59402	RFLD_T2	0	0	0	0	0	0	-0.56	-0.58	1	1	0	450	450	0
4/10/2024 12:19	59402	RFLD_T2	0	0	0	0	0	0	-1.13	-1.15	2	2	0	900	900	0
4/10/2024 12:20	63306	GREE_T1	0	0	0	0	0	0	-1.37	-1.37	1	1	0	900	900	0
4/10/2024 12:20	59402	RFLD_T2	0	0	0	0	0	0	-0.56	-0.58	1	1	0	450	450	0
4/10/2024 12:20	59202	THOM_T1	10	31	21	0.19	0.28	0.09	0	0	0	0	0	0	0	0
4/10/2024 12:22	42701	AUGU_T1	1	1	0	1.2	1	-0.2	0	0	2	2	0	1800	1800	0
4/10/2024 12:22	66701	STRA_T1	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/10/2024 12:22	66703	STRA_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
4/10/2024 12:23	60803	BUCK_T1	23	15	-8	0.38	0.41	0.03	-0.52	-0.5	1	1	0	600	600	0
4/10/2024 12:23	60801	BUCK_T1	92	80	-12	0.4	0.37	-0.03	-0.16	-0.08	0	0	0	0	0	0
4/10/2024 12:23	42701	AUGU_T1	1	1	0	1.2	1	-0.2	0	0	2	2	0	1800	1800	0
4/10/2024 12:24	60101	COCA_T1	5	3	-2	0.38	0.37	-0.01	0.26	0.28	0	0	0	0	0	0
4/10/2024 12:24	67702	WERN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/10/2024 12:24	60803	BUCK_T1	23	15	-8	0.38	0.41	0.03	0	0	0	0	0	0	0	0
4/10/2024 12:24	67701	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/10/2024 12:24	59202	THOM_T1	10	31	21	0.19	0.28	0.09	0	0	0	0	0	0	0	0
4/10/2024 12:24	60801	BUCK_T1	92	80	-12	0.4	0.37	-0.03	-0.33	-0.17	0	0	0	0	0	0
4/10/2024 12:24	67703	WERN_T2	0	1	1	0	0.3	0.3	-0.33	-0.3	1	1	0	900	900	0
4/10/2024 12:25	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
4/10/2024 12:26	60802	BUCK_T2	15	6	-9	0.26	0.35	0.09	1.22	0.26	0	0	0	0	0	0
4/10/2024 12:26	60101	COCA_T1	5	3	-2	0.38	0.37	-0.01	0.26	0.28	0	0	0	0	0	0
4/10/2024 12:29	14205	EALL_T2	0	0	0	0	0	0	-0.2	-0.12	0	0	0	0	0	0
4/10/2024 12:29	14204	EALL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/10/2024 12:31	12701	MACU_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
4/10/2024 12:32	45701	LIND_T2	0	0	0	0	0	0	-1.02	-1.02	0	0	0	0	0	0
4/10/2024 12:32	45702	LIND_T2	30	31	1	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
4/10/2024 12:33	25502	MADI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/10/2024 12:33	25503	MADI_T1	172	176	4	0.24	0.2	-0.04	-1.08	-1.1	0	0	0	0	0	0
4/10/2024 12:33	25501	MADI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 12:33	12701	MACU_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
4/10/2024 12:36	45902	AUBU_T1	1	5	4	0.1	0.68	0.58	-1.36	-1.33	2	2	0	1200	1200	0
4/10/2024 12:36	13302	ORVI_T2	1	1	0	1	0.8	-0.2	1.28	1.39	0	0	0	0	0	0
4/10/2024 12:37	45901	AUBU_T1	0	0	0	0	0	0	1.99	1.74	0	0	0	0	0	0
4/10/2024 12:37	60301	TWVA_T2	0	0	0	0	0	0	-3.25	-2.68	2	2	0	2100	2100	0
4/10/2024 12:37	45902	AUBU_T1	1	5	4	0.1	0.68	0.58	0	0	0	0	0	0	0	0
4/10/2024 12:38	43801	SWIL_T1	3	4	1	1.9	1.45	-0.45	0	0	0	0	0	0	0	0
4/10/2024 12:38	43802	SWIL_T1	0	0	0	0	0	0	-0.33	-0.34	1	1	0	600	600	0
4/10/2024 12:39	45902	AUBU_T1	1	5	4	0.1	0.68	0.58	0	0	0	0	0	0	0	0
4/10/2024 12:39	45901	AUBU_T1	0	0	0	0	0	0	1.74	1.76	0	0	0	0	0	0
4/10/2024 12:41	45902	AUBU_T1	1	5	4	0.1	0.68	0.58	-0.67	-0.64	1	1	0	600	600	0
4/10/2024 12:42	11601	CEAL_T1	4	3	-1	0.43	0.5	0.07	0	0	1	1	0	1200	1200	0
4/10/2024 12:42	67605	WARW_T1	47	48	1	0.75	0.66	-0.09	-1.09	-1.08	0	0	0	0	0	0
4/10/2024 12:42	67603	WARW_T1	4	4	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
4/10/2024 12:42	67604	WARW_T1	5	4	-1	0.24	0.13	-0.11	0	0	0	0	0	0	0	0
4/10/2024 12:44	59301	MCAL_T1	26	5	-21	0.32	0.34	0.02	-1.6	-1.64	1	1	0	600	600	0
4/10/2024 12:44	59302	MCAL_T1	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/10/2024 12:46	59301	MCAL_T1	5	3	-2	0.34	0.57	0.23	-3.21	-3.28	2	2	0	1200	1200	0
4/10/2024 12:47	65604	QVIL_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
4/10/2024 12:47	67603	WARW_T1	4	3	-1	0.58	0.93	0.35	0	0	0	0	0	0	0	0
4/10/2024 12:47	65603	QVIL_T2	0	0	0	0	0	0	0.35	0.51	0	0	0	0	0	0
4/10/2024 12:47	67605	WARW_T1	45	48	3	0.67	0.65	-0.02	-1.09	-1.08	0	0	0	0	0	0
4/10/2024 12:47	65601	QVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/10/2024 12:47	63202	MGTN_T2	0	0	0	0	0	0	0.2	0.28	1	1	0	900	900	0
4/10/2024 12:47	67604	WARW_T1	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/10/2024 12:48	45701	LIND_T2	0	0	0	0	0	0	-1.02	-1.06	0	0	0	0	0	0
4/10/2024 12:48	45702	LIND_T2	1	31	30	2.1	0.21	-1.89	0	0	0	0	0	0	0	0
4/10/2024 12:49	41902	REED_T1	0	0	0	0	0	0	1.07	1.09	0	0	0	0	0	0
4/10/2024 12:49	57403	SPAN_T1	2	4	2	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/10/2024 12:49	13105	NHAM_T2	0	0	0	0	0	0	-0.73	-0.72	1	1	0	1200	1200	0
4/10/2024 12:49	57401	SPAN_T1	4	4	0	0.23	0.65	0.42	-2.46	-2.48	2	2	0	1200	1200	0
4/10/2024 12:50	57401	SPAN_T1	4	4	0	0.23	0.65	0.42	-1.23	-1.24	1	1	0	600	600	0
4/10/2024 12:50	15603	NSTR_T2	1	1	0	0.2	0.4	0.2	-0.68	-0.69	0	0	0	0	0	0
4/10/2024 12:50	41902	REED_T1	0	0	0	0	0	0	1.07	1.09	0	0	0	0	0	0
4/10/2024 12:50	57403	SPAN_T1	2	4	2	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/10/2024 12:50	15601	NSTR_T2	3	3	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
4/10/2024 12:51	65205	PRIN_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/10/2024 12:51	57403	SPAN_T1	2	4	2	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/10/2024 12:51	47402	PENS_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/10/2024 12:51	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 12:51	57401	SPAN_T1	4	4	0	0.23	0.65	0.42	-1.23	-1.24	1	1	0	600	600	0
4/10/2024 12:51	47401	PENS_T1	0	0	0	0	0	0	0.92	0.89	0	0	0	0	0	0
4/10/2024 12:52	57403	SPAN_T1	2	4	2	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/10/2024 12:52	57401	SPAN_T1	4	4	0	0.23	0.65	0.42	-1.23	-1.24	1	1	0	600	600	0
4/10/2024 12:52	41902	REED_T1	0	0	0	0	0	0	1.07	1.09	0	0	0	0	0	0
4/10/2024 12:52	45901	AUBU_T1	0	0	0	0	0	0	1.74	1.76	0	0	0	0	0	0
4/10/2024 12:52	45902	AUBU_T1	4	5	1	0.55	0.68	0.13	-0.67	-0.64	1	1	0	600	600	0
4/10/2024 12:54	57401	SPAN_T1	4	4	0	0.23	0.65	0.42	-1.24	-1.24	1	1	0	600	600	0
4/10/2024 12:54	57403	SPAN_T1	2	4	2	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/10/2024 12:56	15001	BLMO_T1	4	4	0	0.78	0.7	-0.08	0	0	0	0	0	0	0	0
4/10/2024 12:57	67603	WARW_T1	4	3	-1	0.58	0.93	0.35	0	0	0	0	0	0	0	0
4/10/2024 12:57	45902	AUBU_T1	4	5	1	0.55	0.68	0.13	-0.64	-0.69	1	1	0	600	600	0
4/10/2024 12:57	67605	WARW_T1	45	48	3	0.67	0.65	-0.02	-1.08	-1.08	0	0	0	0	0	0
4/10/2024 12:57	67604	WARW_T1	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/10/2024 12:58	63403	HONY_T2	1	0	-1	0.2	0	-0.2	0.22	0.22	1	1	0	600	600	0
4/10/2024 12:58	63402	HONY_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/10/2024 13:02	16204	POFA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 13:02	47402	PENS_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/10/2024 13:02	16203	POFA_T2	2	3	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/10/2024 13:02	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 13:02	67603	WARW_T1	3	3	0	0.93	0.63	-0.3	0	0	0	0	0	0	0	0
4/10/2024 13:02	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 13:02	67605	WARW_T1	48	48	0	0.64	0.66	0.02	-1.08	-1.08	0	0	0	0	0	0
4/10/2024 13:02	47401	PENS_T1	0	2	2	0	0.5	0.5	0.89	0.9	0	0	0	0	0	0
4/10/2024 13:04	51002	NHAR_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
4/10/2024 13:04	58401	MORO_T1	0	0	0	0	0	0	-0.8	-0.8	1	1	0	600	600	0
4/10/2024 13:04	51004	NHAR_T1	13	13	0	1.07	1.17	0.1	0	0	0	0	0	0	0	0
4/10/2024 13:06	54602	SUMM_T2	15	4	-11	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
4/10/2024 13:06	54601	SUMM_T2	13	13	0	0.68	0.56	-0.12	-1.82	-1.85	2	2	0	2100	2100	0
4/10/2024 13:06	47402	PENS_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/10/2024 13:06	14602	SWHI_T1	2	1	-1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
4/10/2024 13:06	58401	MORO_T1	0	0	0	0	0	0	-0.8	-0.8	1	1	0	600	600	0
4/10/2024 13:06	14603	SWHI_T1	6	5	-1	0.57	0.4	-0.17	0	0	0	0	0	0	0	0
4/10/2024 13:06	47401	PENS_T1	0	2	2	0	0.5	0.5	0.89	0.9	0	0	0	0	0	0
4/10/2024 13:07	16102	BING_T2	5	4	-1	0.6	0.3	-0.3	0.08	0.1	0	0	0	0	0	0
4/10/2024 13:07	16101	BING_T2	1	3	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/10/2024 13:07	26001	WDAM_T1	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
4/10/2024 13:07	26002	WDAM_T1	1	3	2	0.3	0.37	0.07	0	0	0	0	0	0	0	0
4/10/2024 13:07	16103	BING_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/10/2024 13:08	11601	CEAL_T1	2	5	3	0.45	0.6	0.15	0	0	1	1	0	1200	1200	0
4/10/2024 13:09	14602	SWHI_T1	2	1	-1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
4/10/2024 13:09	14603	SWHI_T1	6	5	-1	0.57	0.4	-0.17	0	0	0	0	0	0	0	0
4/10/2024 13:10	51004	NHAR_T1	13	13	0	1.07	1.17	0.1	0	0	0	0	0	0	0	0
4/10/2024 13:10	51002	NHAR_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
4/10/2024 13:11	22003	BOHE_T1	3	3	0	1.03	0.77	-0.26	0	0	0	0	0	0	0	0
4/10/2024 13:11	10801	CHHI_T1	10	15	5	0.64	0.78	0.14	-0.74	-0.7	1	1	0	900	900	0
4/10/2024 13:12	67605	WARW_T1	48	48	0	0.64	0.66	0.02	-1.08	-1.04	0	0	0	0	0	0
4/10/2024 13:12	16301	ALPA_T1	12	21	9	0.31	0.33	0.02	-0.35	-0.31	0	0	0	0	0	0
4/10/2024 13:12	67603	WARW_T1	3	3	0	0.93	0.63	-0.3	0	0	0	0	0	0	0	0
4/10/2024 13:13	16301	ALPA_T1	12	21	9	0.31	0.33	0.02	-0.35	-0.31	0	0	0	0	0	0
4/10/2024 13:13	24501	GOUL_T2	1	0	-1	0.1	0	-0.1	0.04	0.01	0	0	0	0	0	0
4/10/2024 13:15	28805	LAKE_T1	11	15	4	0.18	0.2	0.02	-0.24	-0.25	0	0	0	0	0	0
4/10/2024 13:15	28803	LAKE_T1	0	8	8	0	0.14	0.14	0	0	0	0	0	0	0	0
4/10/2024 13:15	28801	LAKE_T1	148	238	90	0.15	0.42	0.27	0	0	0	0	0	0	0	0
4/10/2024 13:16	16103	BING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/10/2024 13:16	16102	BING_T2	4	2	-2	0.3	0.3	0	0	0	0	0	0	0	0	0
4/10/2024 13:16	16101	BING_T2	1	2	1	0.1	0.45	0.35	0.28	0.31	0	0	0	0	0	0
4/10/2024 13:17	13503	MCMI_T2	1	1	0	0.2	0.2	0	-0.03	-0.04	0	0	0	0	0	0
4/10/2024 13:17	67605	WARW_T1	41	48	7	0.65	0.66	0.01	-1.08	-1.04	0	0	0	0	0	0
4/10/2024 13:17	67603	WARW_T1	3	2	-1	0.63	0.85	0.22	0	0	0	0	0	0	0	0
4/10/2024 13:19	42903	MIDD_T2	2	2	0	1.3	1.75	0.45	0	0	0	0	0	0	0	0
4/10/2024 13:19	42902	MIDD_T2	1	4	3	0.3	0.6	0.3	0.1	0.21	0	0	0	0	0	0
4/10/2024 13:20	27503	WEIS_T2	5	10	5	0.22	0.3	0.08	0	0	0	0	0	0	0	0
4/10/2024 13:20	27502	WEIS_T2	0	1	1	0	0.2	0.2	-0.53	-0.54	0	0	0	0	0	0
4/10/2024 13:22	26001	WDAM_T1	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
4/10/2024 13:22	20403	ASHF_T2	15	6	-9	0.39	0.56	0.17	1.79	1.77	0	0	0	0	0	0
4/10/2024 13:22	26002	WDAM_T1	1	3	2	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
4/10/2024 13:22	20402	ASHF_T2	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
4/10/2024 13:23	42802	SELI_T1	0	0	0	0	0	0	-1.46	-1.65	2	2	0	1800	1800	0
4/10/2024 13:24	14602	SWHI_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/10/2024 13:24	46203	DANV_T2	0	1	1	0	0.4	0.4	0.1	0.08	0	0	0	0	0	0
4/10/2024 13:24	14603	SWHI_T1	5	8	3	0.4	0.55	0.15	0	0	0	0	0	0	0	0
4/10/2024 13:25	46203	DANV_T2	0	1	1	0	0.4	0.4	0.1	0.08	0	0	0	0	0	0
4/10/2024 13:26	11601	CEAL_T1	1	5	4	1	0.64	-0.36	0	0	1	1	0	1200	1200	0
4/10/2024 13:27	67603	WARW_T1	3	2	-1	0.63	0.85	0.22	0	0	0	0	0	0	0	0
4/10/2024 13:27	42802	SELI_T1	0	0	0	0	0	0	-0.73	-0.83	1	1	0	900	900	0
4/10/2024 13:27	67605	WARW_T1	41	48	7	0.65	0.66	0.01	-1.04	-1.07	0	0	0	0	0	0
4/10/2024 13:30	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 13:31	67603	WARW_T1	2	2	0	0.6	0.85	0.25	0	0	0	0	0	0	0	0
4/10/2024 13:31	67605	WARW_T1	48	46	-2	0.65	0.72	0.07	-2.09	-2.15	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/10/2024 13:31	55003	NEWP_T2	0	7	7	0	0.17	0.17	-0.13	-0.15	0	0	0	0	0	0
4/10/2024 13:32	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 13:32	67605	WARW_T1	48	46	-2	0.65	0.72	0.07	-1.04	-1.07	0	0	0	0	0	0
4/10/2024 13:32	67603	WARW_T1	2	2	0	0.6	0.85	0.25	0	0	0	0	0	0	0	0
4/10/2024 13:36	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 13:36	45602	WOOL_T1	3	4	1	0.6	0.63	0.03	0.38	0.43	0	0	0	0	0	0
4/10/2024 13:37	20402	ASHF_T2	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
4/10/2024 13:37	20403	ASHF_T2	5	64	59	0.4	0.29	-0.11	1.77	1.62	0	0	0	0	0	0
4/10/2024 13:39	45602	WOOL_T1	3	4	1	0.6	0.63	0.03	0.43	0.41	0	0	0	0	0	0
4/10/2024 13:41	59202	THOM_T1	4	2	-2	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
4/10/2024 13:42	67603	WARW_T1	2	2	0	0.6	0.85	0.25	0	0	0	0	0	0	0	0
4/10/2024 13:42	67605	WARW_T1	48	46	-2	0.65	0.72	0.07	-1.07	-1.05	0	0	0	0	0	0
4/10/2024 13:46	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
4/10/2024 13:46	13502	MCMI_T1	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
4/10/2024 13:46	67603	WARW_T1	2	2	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
4/10/2024 13:46	67605	WARW_T1	42	51	9	0.64	0.67	0.03	-1.07	-1.05	0	0	0	0	0	0
4/10/2024 13:47	40602	PIGR_T1	0	0	0	0	0	0	-0.64	-0.59	1	1	0	600	600	0
4/10/2024 13:47	64404	LAND_T2	0	9	9	0	0.49	0.49	0	0	0	0	0	0	0	0
4/10/2024 13:47	40601	PIGR_T1	81	38	-43	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
4/10/2024 13:47	64402	LAND_T2	0	1	1	0	0.2	0.2	-0.33	-0.3	1	1	0	600	600	0
4/10/2024 13:48	13502	MCMI_T1	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
4/10/2024 13:48	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
4/10/2024 13:49	13303	ORVI_T1	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
4/10/2024 13:49	47403	PENS_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/10/2024 13:49	47401	PENS_T1	6	7	1	0.72	0.52	-0.2	1.02	0.96	0	0	0	0	0	0
4/10/2024 13:49	47402	PENS_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
4/10/2024 13:49	55002	NEWP_T1	12	13	1	0.9	1.01	0.11	0	0	0	0	0	0	0	0
4/10/2024 13:49	55001	NEWP_T1	0	1	1	0	0.2	0.2	-0.21	-0.21	0	0	0	0	0	0
4/10/2024 13:50	40601	PIGR_T1	81	38	-43	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
4/10/2024 13:50	40602	PIGR_T1	0	0	0	0	0	0	-1.29	-1.18	2	2	0	1200	1200	0
4/10/2024 13:51	49804	UNIV_T1	1	2	1	0.8	0.65	-0.15	0.58	0.64	0	0	0	0	0	0
4/10/2024 13:52	47402	PENS_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
4/10/2024 13:52	47403	PENS_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/10/2024 13:52	47401	PENS_T1	6	7	1	0.72	0.52	-0.2	2.04	1.92	0	0	0	0	0	0
4/10/2024 13:53	20403	ASHF_T2	5	67	62	0.56	0.29	-0.27	1.69	2.22	0	0	0	0	0	0
4/10/2024 13:53	43302	WATS_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/10/2024 13:53	43301	WATS_T2	0	1	1	0	0.1	0.1	-0.79	-0.8	1	1	0	900	900	0
4/10/2024 13:53	66501	SMAN_T2	2	2	0	0.15	0.85	0.7	0	0	0	0	0	0	0	0
4/10/2024 13:53	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 13:53	20402	ASHF_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/10/2024 13:53	66502	SMAN_T2	1	5	4	0.2	0.42	0.22	0	0	0	0	0	0	0	0
4/10/2024 13:53	66504	SMAN_T2	0	3	3	0	0.37	0.37	-0.49	-0.43	0	0	0	0	0	0
4/10/2024 13:54	42701	AUGU_T1	1	1	0	1.1	1	-0.1	0	0	2	2	0	1800	1800	0
4/10/2024 13:55	42701	AUGU_T1	1	1	0	1.1	1	-0.1	0	0	2	2	0	1800	1800	0
4/10/2024 13:56	67605	WARW_T1	42	51	9	0.64	0.67	0.03	-1.05	-1.02	0	0	0	0	0	0
4/10/2024 13:56	67603	WARW_T1	2	2	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
4/10/2024 13:57	40902	JESH_T1	0	0	0	0	0	0	-0.65	-0.62	0	0	0	0	0	0
4/10/2024 13:59	45702	LIND_T2	59	2	-57	0.2	1.15	0.95	-0.63	-0.58	0	0	0	0	0	0
4/10/2024 14:00	50502	MECH_T1	2	1	-1	1.1	1.8	0.7	0	0	0	0	0	0	0	0
4/10/2024 14:00	50504	MECH_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/10/2024 14:00	50505	MECH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/10/2024 14:00	50501	MECH_T1	4	4	0	0.8	0.4	-0.4	0.23	0.47	0	0	0	0	0	0
4/10/2024 14:00	50503	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/10/2024 14:00	50506	MECH_T1	2	0	-2	0.95	0	-0.95	0	0	0	0	0	0	0	0
4/10/2024 14:02	50505	MECH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/10/2024 14:02	50502	MECH_T1	2	1	-1	1.1	1.8	0.7	-0.01	-0.01	0	0	0	0	0	0
4/10/2024 14:02	50506	MECH_T1	2	0	-2	0.95	0	-0.95	0	0	0	0	0	0	0	0
4/10/2024 14:02	50501	MECH_T1	4	4	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
4/10/2024 14:02	40902	JESH_T1	0	0	0	0	0	0	-0.65	-0.62	0	0	0	0	0	0
4/10/2024 14:02	67603	WARW_T1	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/10/2024 14:02	67605	WARW_T1	46	50	4	0.71	0.58	-0.13	-1.05	-1.02	0	0	0	0	0	0
4/10/2024 14:02	50504	MECH_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/10/2024 14:02	50503	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/10/2024 14:05	66504	SMAN_T2	2	3	1	0.45	0.33	-0.12	-0.24	-0.22	0	0	0	0	0	0
4/10/2024 14:05	66501	SMAN_T2	2	2	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
4/10/2024 14:05	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-0.67	-0.71	1	1	0	600	600	0
4/10/2024 14:05	66502	SMAN_T2	5	5	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/10/2024 14:07	57004	WHHI_T2	1	1	0	0.3	0.3	0	-0.55	-0.55	0	0	0	0	0	0
4/10/2024 14:07	57003	WHHI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/10/2024 14:07	40902	JESH_T1	0	0	0	0	0	0	-0.65	-0.62	0	0	0	0	0	0
4/10/2024 14:07	57006	WHHI_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
4/10/2024 14:08	20403	ASHF_T2	64	12	-52	0.29	0.42	0.13	2.22	2.41	0	0	0	0	0	0
4/10/2024 14:08	20402	ASHF_T2	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/10/2024 14:08	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 14:09	20401	ASHF_T2	0	1	1	0	0.1	0.1	-1.16	-1.19	0	0	0	0	0	0
4/10/2024 14:09	57004	WHHI_T2	1	1	0	0.3	0.3	0	-0.55	-0.47	0	0	0	0	0	0
4/10/2024 14:09	20402	ASHF_T2	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/10/2024 14:09	20403	ASHF_T2	64	12	-52	0.29	0.42	0.13	1.11	1.21	0	0	0	0	0	0
4/10/2024 14:09	57006	WHHI_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
4/10/2024 14:09	57003	WHHI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/10/2024 14:10	57006	WHHI_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
4/10/2024 14:10	57004	WHHI_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/10/2024 14:10	57002	WHHI_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
4/10/2024 14:10	57003	WHHI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/10/2024 14:11	56603	HAMP_T1	0	0	0	0	0	0	-1.12	-1.07	0	0	0	0	0	0
4/10/2024 14:11	56601	HAMP_T1	0	0	0	0	0	0	-1.7	-1.76	0	0	0	0	0	0
4/10/2024 14:11	64702	LITI_T2	0	0	0	0	0	0	-0.34	-0.5	0	0	0	0	0	0
4/10/2024 14:11	45902	AUBU_T1	3	3	0	0.47	0.43	-0.04	-0.74	-0.74	1	1	0	600	600	0
4/10/2024 14:12	40902	JESH_T1	0	0	0	0	0	0	-0.62	-0.79	0	0	0	0	0	0
4/10/2024 14:12	67605	WARW_T1	46	50	4	0.71	0.58	-0.13	-1.02	-1.07	0	0	0	0	0	0
4/10/2024 14:12	67603	WARW_T1	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/10/2024 14:13	60801	BUCK_T1	28	20	-8	0.19	0.26	0.07	0	0	0	0	0	0	0	0
4/10/2024 14:13	60803	BUCK_T1	14	15	1	0.19	0.19	0	-0.52	-0.51	1	1	0	600	600	0
4/10/2024 14:13	28403	HART_T2	0	0	0	0	0	0	-1.06	-1.08	1	1	0	900	900	0
4/10/2024 14:13	46802	HEPB_T1	1	2	1	0.2	0.35	0.15	-0.35	-0.36	0	0	0	0	0	0
4/10/2024 14:14	60803	BUCK_T1	14	15	1	0.19	0.19	0	0	0	0	0	0	0	0	0
4/10/2024 14:14	60801	BUCK_T1	28	20	-8	0.19	0.26	0.07	-0.06	-0.05	0	0	0	0	0	0
4/10/2024 14:16	45902	AUBU_T1	3	0	-3	0.43	0	-0.43	-0.74	-0.74	1	1	0	600	600	0
4/10/2024 14:17	40902	JESH_T1	0	0	0	0	0	0	-0.62	-0.79	0	0	0	0	0	0
4/10/2024 14:17	67605	WARW_T1	48	50	2	0.57	0.68	0.11	-1.02	-1.07	0	0	0	0	0	0
4/10/2024 14:17	67603	WARW_T1	1	2	1	1	0.3	-0.7	0	0	0	0	0	0	0	0
4/10/2024 14:19	57303	MOAL_T2	1	1	0	7	6.9	-0.1	0	0	0	0	0	0	0	0
4/10/2024 14:19	57304	MOAL_T2	74	68	-6	0.82	0.74	-0.08	0	0	0	0	0	0	0	0
4/10/2024 14:19	60803	BUCK_T1	10	15	5	0.13	0.21	0.08	0	0	0	0	0	0	0	0
4/10/2024 14:19	60801	BUCK_T1	8	24	16	0.38	0.21	-0.17	-0.06	-0.05	0	0	0	0	0	0
4/10/2024 14:19	57301	MOAL_T2	3	3	0	0.1	0.23	0.13	0.39	0.33	0	0	0	0	0	0
4/10/2024 14:22	66505	SMAN_T2	0	0	0	0	0	0	0.74	0.6	2	2	0	1100	1100	0
4/10/2024 14:22	66504	SMAN_T2	3	2	-1	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
4/10/2024 14:22	66501	SMAN_T2	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/10/2024 14:22	66502	SMAN_T2	3	5	2	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
4/10/2024 14:23	57006	WHHI_T2	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/10/2024 14:23	57004	WHHI_T2	1	0	-1	0.3	0	-0.3	-0.47	-0.49	0	0	0	0	0	0
4/10/2024 14:23	57003	WHHI_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/10/2024 14:24	20402	ASHF_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
4/10/2024 14:24	20401	ASHF_T2	1	2	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/10/2024 14:24	59101	WALK_T2	44	50	6	0.24	0.35	0.11	0.02	-0.15	0	0	0	0	0	0
4/10/2024 14:24	20403	ASHF_T2	8	28	20	0.36	0.34	-0.02	1.21	1.16	0	0	0	0	0	0
4/10/2024 14:28	40902	JESH_T1	0	0	0	0	0	0	-0.79	-0.83	0	0	0	0	0	0
4/10/2024 14:30	42903	MIDD_T2	2	2	0	2.35	2.15	-0.2	0.29	0.3	1	1	0	1200	1200	0
4/10/2024 14:30	42901	MIDD_T2	8	0	-8	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/10/2024 14:30	42902	MIDD_T2	64	24	-40	0.23	0.36	0.13	0	0	0	0	0	0	0	0
4/10/2024 14:33	52002	LING_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
4/10/2024 14:33	51002	NHAR_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/10/2024 14:33	51004	NHAR_T1	12	13	1	0.97	1.08	0.11	-0.41	-0.4	0	0	0	0	0	0
4/10/2024 14:33	52004	LING_T2	1	3	2	0.5	0.43	-0.07	0.29	0.2	0	0	0	0	0	0
4/10/2024 14:33	52006	LING_T2	2	3	1	0.5	0.57	0.07	0	0	0	0	0	0	0	0
4/10/2024 14:33	40902	JESH_T1	0	0	0	0	0	0	-0.79	-0.83	0	0	0	0	0	0
4/10/2024 14:39	20401	ASHF_T2	1	2	1	0.1	0.2	0.1	-1.23	-1.21	0	0	0	0	0	0
4/10/2024 14:39	20402	ASHF_T2	2	2	0	0.3	0.55	0.25	0	0	0	0	0	0	0	0
4/10/2024 14:39	20403	ASHF_T2	11	28	17	0.49	0.42	-0.07	0	0	0	0	0	0	0	0
4/10/2024 14:42	67605	WARW_T1	45	53	8	0.6	0.67	0.07	-1.05	-1.05	0	0	0	0	0	0
4/10/2024 14:42	67603	WARW_T1	2	4	2	0.25	0.58	0.33	0	0	0	0	0	0	0	0
4/10/2024 14:42	12002	HATF_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
4/10/2024 14:45	47001	HUGH_T2	0	0	0	0	0	0	-0.32	-0.3	0	0	0	0	0	0
4/10/2024 14:45	47002	HUGH_T2	0	9	9	0	0.22	0.22	0	0	0	0	0	0	0	0
4/10/2024 14:45	28403	HART_T2	0	1	1	0	0	0	-1.07	-1.07	1	1	0	900	900	0
4/10/2024 14:46	42903	MIDD_T2	2	2	0	2.15	1.1	-1.05	0	0	0	0	0	0	0	0
4/10/2024 14:46	42902	MIDD_T2	24	2	-22	0.36	0.3	-0.06	0.25	0.26	0	0	0	0	0	0
4/10/2024 14:46	53901	HALI_T2	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
4/10/2024 14:46	47002	HUGH_T2	0	9	9	0	0.22	0.22	0	0	0	0	0	0	0	0
4/10/2024 14:46	47001	HUGH_T2	0	0	0	0	0	0	-0.32	-0.3	0	0	0	0	0	0
4/10/2024 14:46	53902	HALI_T2	3	2	-1	2.1	3.4	1.3	-0.27	-0.23	0	0	0	0	0	0
4/10/2024 14:46	53903	HALI_T2	4	9	5	0.8	0.67	-0.13	0	0	0	0	0	0	0	0
4/10/2024 14:47	67603	WARW_T1	2	3	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/10/2024 14:47	52006	LING_T2	3	3	0	0.47	0.7	0.23	0	0	0	0	0	0	0	0
4/10/2024 14:47	52004	LING_T2	3	1	-2	0.4	0.9	0.5	0.2	0.09	0	0	0	0	0	0
4/10/2024 14:47	52002	LING_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/10/2024 14:47	67605	WARW_T1	50	52	2	0.67	0.64	-0.03	-1.05	-1.05	0	0	0	0	0	0
4/10/2024 14:48	42902	MIDD_T2	24	2	-22	0.36	0.3	-0.06	0.25	0.26	0	0	0	0	0	0
4/10/2024 14:48	42903	MIDD_T2	2	2	0	2.15	1.1	-1.05	0	0	0	0	0	0	0	0
4/10/2024 14:50	57101	SPHI_T2	6	6	0	1.27	1.45	0.18	0	0	0	0	0	0	0	0
4/10/2024 14:50	57106	SPHI_T2	3	3	0	1.33	1.43	0.1	0	0	0	0	0	0	0	0
4/10/2024 14:50	57104	SPHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 14:50	57103	SPHI_T2	0	0	0	0	0	0	0.79	0.83	0	0	0	0	0	0
4/10/2024 14:54	57004	WHHI_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
4/10/2024 14:54	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 14:55	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 14:55	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 14:56	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 14:56	53501	EVIL_T2	2	4	2	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
4/10/2024 14:56	24105	EHAZ_T1	4	5	1	5.98	5.88	-0.1	0	0	0	0	0	0	0	0
4/10/2024 14:56	24102	EHAZ_T1	2	2	0	1	0	-1	-0.18	0.22	0	0	0	0	0	0
4/10/2024 14:56	53502	EVIL_T2	0	0	0	0	0	0	0.55	0.53	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/10/2024 14:56	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 14:57	23202	HIRU_T2	0	1	1	0	0.3	0.3	0.08	0.09	0	0	0	0	0	0
4/10/2024 14:57	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 14:57	67603	WARW_T1	2	3	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/10/2024 14:57	67605	WARW_T1	50	52	2	0.67	0.64	-0.03	-1.05	-1.09	0	0	0	0	0	0
4/10/2024 14:58	63801	HEMP_T1	9	2	-7	0.44	0.55	0.11	0	0	0	0	0	0	0	0
4/10/2024 14:58	63804	HEMP_T1	2	1	-1	3.2	6.8	3.6	0.05	0	0	0	0	0	0	0
4/10/2024 14:58	63802	HEMP_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/10/2024 14:58	63803	HEMP_T1	5	2	-3	0.44	0.5	0.06	0	0	0	0	0	0	0	0
4/10/2024 14:59	63801	HEMP_T1	9	2	-7	0.44	0.55	0.11	0	0	0	0	0	0	0	0
4/10/2024 14:59	63803	HEMP_T1	5	2	-3	0.44	0.5	0.06	0	0	0	0	0	0	0	0
4/10/2024 14:59	63804	HEMP_T1	2	1	-1	3.2	6.8	3.6	0.05	0	0	0	0	0	0	0
4/10/2024 14:59	63802	HEMP_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/10/2024 15:01	63804	HEMP_T1	1	1	0	6.9	6.8	-0.1	0.09	0	0	0	0	0	0	0
4/10/2024 15:01	63801	HEMP_T1	2	1	-1	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
4/10/2024 15:01	63803	HEMP_T1	2	1	-1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/10/2024 15:02	63804	HEMP_T1	1	1	0	6.9	6.8	-0.1	0.05	0	0	0	0	0	0	0
4/10/2024 15:02	67605	WARW_T1	52	47	-5	0.64	0.61	-0.03	-1.05	-1.09	0	0	0	0	0	0
4/10/2024 15:02	63803	HEMP_T1	2	1	-1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/10/2024 15:02	67603	WARW_T1	3	0	-3	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/10/2024 15:02	63801	HEMP_T1	2	1	-1	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
4/10/2024 15:07	49804	UNIV_T1	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0	0
4/10/2024 15:07	49803	UNIV_T1	1	3	2	0.1	0.5	0.4	-1.18	-1.22	0	0	0	0	0	0
4/10/2024 15:08	49804	UNIV_T1	2	2	0	0.65	0.65	0	0.55	0.49	0	0	0	0	0	0
4/10/2024 15:08	49803	UNIV_T1	1	3	2	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/10/2024 15:09	43701	WILL_T1	0	0	0	0	0	0	0.22	0.28	0	0	0	0	0	0
4/10/2024 15:09	43705	WILL_T1	2	2	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
4/10/2024 15:09	43704	WILL_T1	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
4/10/2024 15:11	45802	HEGI_T2	1	0	-1	0.8	0	-0.8	0.73	0.67	0	0	0	0	0	0
4/10/2024 15:12	61801	EELI_T2	0	0	0	0	0	0	-0.8	-0.79	1	1	0	600	600	0
4/10/2024 15:13	63803	HEMP_T1	2	1	-1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/10/2024 15:13	63801	HEMP_T1	2	1	-1	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
4/10/2024 15:13	45802	HEGI_T2	1	0	-1	0.8	0	-0.8	0.73	0.67	0	0	0	0	0	0
4/10/2024 15:13	63804	HEMP_T1	1	1	0	6.9	6.8	-0.1	0	0.07	0	0	0	0	0	0
4/10/2024 15:13	40101	HUNT_T2	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
4/10/2024 15:14	63803	HEMP_T1	2	1	-1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/10/2024 15:14	63804	HEMP_T1	1	1	0	6.9	6.8	-0.1	0	0.07	0	0	0	0	0	0
4/10/2024 15:14	63801	HEMP_T1	2	1	-1	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
4/10/2024 15:15	63804	HEMP_T1	1	1	0	6.8	7	0.2	0	0.07	0	0	0	0	0	0
4/10/2024 15:15	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 15:15	63801	HEMP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/10/2024 15:17	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/10/2024 15:17	13502	MCMI_T1	8	13	5	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
4/10/2024 15:19	13103	NHAM_T2	0	0	0	0	0	0	-1.73	-1.72	1	1	0	600	600	0
4/10/2024 15:27	67605	WARW_T1	40	50	10	0.61	0.65	0.04	-1.07	-1.05	0	0	0	0	0	0
4/10/2024 15:27	61801	EELI_T2	0	0	0	0	0	0	-0.79	-0.81	1	1	0	600	600	0
4/10/2024 15:30	13502	MCMI_T1	7	10	3	0.14	0.22	0.08	0	0	0	0	0	0	0	0
4/10/2024 15:30	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
4/10/2024 15:32	67605	WARW_T1	44	51	7	0.63	0.63	0	-1.07	-1.05	0	0	0	0	0	0
4/10/2024 15:32	13502	MCMI_T1	7	10	3	0.14	0.22	0.08	0	0	0	0	0	0	0	0
4/10/2024 15:32	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
4/10/2024 15:36	67805	WLAN_T1	0	0	0	0	0	0	-0.69	-1.08	0	0	0	0	0	0
4/10/2024 15:36	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 15:36	67803	WLAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 15:36	67804	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 15:37	67804	WLAN_T1	0	1	1	0	0.1	0.1	-2.02	-1.89	0	0	0	0	0	0
4/10/2024 15:37	67803	WLAN_T1	0	3	3	0	0.1	0.1	-0.84	-0.83	0	0	0	0	0	0
4/10/2024 15:37	15702	TANN_T2	0	0	0	0	0	0	0.94	0.9	0	0	0	0	0	0
4/10/2024 15:37	44601	SALE_T2	0	0	0	0	0	0	2.16	2.18	2	2	0	1200	1200	0
4/10/2024 15:37	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
4/10/2024 15:38	67803	WLAN_T1	0	3	3	0	0.1	0.1	-0.83	-0.83	0	0	0	0	0	0
4/10/2024 15:38	67804	WLAN_T1	0	1	1	0	0.1	0.1	-0.95	-1.01	0	0	0	0	0	0
4/10/2024 15:40	67805	WLAN_T1	0	0	0	0	0	0	-1.08	-1.12	0	0	0	0	0	0
4/10/2024 15:40	67803	WLAN_T1	0	3	3	0	0.1	0.1	-0.83	-0.83	0	0	0	0	0	0
4/10/2024 15:40	67804	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 15:41	67804	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 15:41	67803	WLAN_T1	0	3	3	0	0.1	0.1	-2.49	-2.5	0	0	0	0	0	0
4/10/2024 15:44	28704	HAML_T2	1	1	0	0.7	0.7	0	-0.01	-0.01	0	0	0	0	0	0
4/10/2024 15:44	52002	LING_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
4/10/2024 15:44	28703	HAML_T2	3	3	0	0.5	0.57	0.07	0	0	0	0	0	0	0	0
4/10/2024 15:44	52004	LING_T2	1	1	0	0.8	0.5	-0.3	0.03	0.03	0	0	0	0	0	0
4/10/2024 15:44	52006	LING_T2	3	3	0	0.73	0.9	0.17	0	0	0	0	0	0	0	0
4/10/2024 15:44	28702	HAML_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/10/2024 15:47	63401	HONY_T1	0	0	0	0	0	0	0.84	0.81	0	0	0	0	0	0
4/10/2024 15:47	67603	WARW_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/10/2024 15:47	67605	WARW_T1	49	41	-8	0.64	0.63	-0.01	-1.05	-0.99	0	0	0	0	0	0
4/10/2024 15:48	52004	LING_T2	1	1	0	0.5	0.7	0.2	0.03	0.03	0	0	0	0	0	0
4/10/2024 15:48	59402	RFLD_T2	0	0	0	0	0	0	-0.71	-0.75	1	1	0	450	450	0
4/10/2024 15:48	52006	LING_T2	3	3	0	0.7	0.93	0.23	0	0	0	0	0	0	0	0
4/10/2024 15:48	65501	MOJO_T1	0	0	0	0	0	0	-0.99	-1.07	1	1	0	900	900	0
4/10/2024 15:48	52002	LING_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
4/10/2024 15:52	67603	WARW_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/10/2024 15:52	67605	WARW_T1	49	41	-8	0.64	0.63	-0.01	-1.05	-0.99	0	0	0	0	0	0
4/10/2024 15:53	64204	KINZ_T1	1	2	1	0.4	0.85	0.45	0	0	0	0	0	0	0	0
4/10/2024 15:53	64201	KINZ_T1	1	1	0	0.2	0.4	0.2	-0.18	-0.08	3	3	0	1500	1500	0
4/10/2024 15:53	64202	KINZ_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
4/10/2024 15:57	67605	WARW_T1	49	41	-8	0.64	0.63	-0.01	-0.99	-1	0	0	0	0	0	0
4/10/2024 15:57	67603	WARW_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/10/2024 15:58	41205	KENM_T2	0	0	0	0	0	0	-0.87	-0.81	1	1	0	600	600	0
4/10/2024 15:58	41202	KENM_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/10/2024 16:01	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 16:01	51101	CARL_T1	0	0	0	0	0	0	-1.13	-1.09	1	1	0	600	600	0
4/10/2024 16:02	67603	WARW_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/10/2024 16:02	67605	WARW_T1	40	38	-2	0.63	0.58	-0.05	-0.99	-1	0	0	0	0	0	0
4/10/2024 16:04	46004	BERW_T2	0	0	0	0	0	0	-0.33	-0.4	0	0	0	0	0	0
4/10/2024 16:07	67804	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/10/2024 16:07	67803	WLAN_T1	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/10/2024 16:07	67801	WLAN_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
4/10/2024 16:08	67803	WLAN_T1	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/10/2024 16:08	67804	WLAN_T1	0	1	1	0	0.2	0.2	-0.99	-0.98	0	0	0	0	0	0
4/10/2024 16:09	67804	WLAN_T1	0	1	1	0	0.2	0.2	-0.99	-0.98	0	0	0	0	0	0
4/10/2024 16:09	59202	THOM_T1	84	254	170	0.16	0.23	0.07	0	0	0	0	0	0	0	0
4/10/2024 16:09	46206	DANV_T2	0	0	0	0	0	0	2.5	2.41	1	1	0	1200	1200	0
4/10/2024 16:09	59201	THOM_T1	3	7	4	0.17	0.21	0.04	0	0	0	0	0	0	0	0
4/10/2024 16:09	46203	DANV_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/10/2024 16:09	67401	WAKE_T2	43	45	2	0.16	0.21	0.05	-1.06	-1.11	0	0	0	0	0	0
4/10/2024 16:09	67803	WLAN_T1	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/10/2024 16:10	67803	WLAN_T1	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/10/2024 16:10	46203	DANV_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/10/2024 16:10	59202	THOM_T1	84	254	170	0.16	0.23	0.07	0	0	0	0	0	0	0	0
4/10/2024 16:10	59201	THOM_T1	3	7	4	0.17	0.21	0.04	0	0	0	0	0	0	0	0
4/10/2024 16:10	67804	WLAN_T1	0	1	1	0	0.2	0.2	-0.99	-0.98	0	0	0	0	0	0
4/10/2024 16:10	46206	DANV_T2	0	0	0	0	0	0	2.5	2.41	1	1	0	1200	1200	0
4/10/2024 16:11	10705	CATA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/10/2024 16:11	10707	CATA_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
4/10/2024 16:11	10702	CATA_T2	1	1	0	0.7	0.8	0.1	-0.64	-0.57	0	0	0	0	0	0
4/10/2024 16:12	67605	WARW_T1	40	38	-2	0.63	0.58	-0.05	-1	-0.99	0	0	0	0	0	0
4/10/2024 16:12	67603	WARW_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/10/2024 16:13	10707	CATA_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
4/10/2024 16:13	10705	CATA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/10/2024 16:13	10702	CATA_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/10/2024 16:14	20201	JERM_T1	0	0	0	0	0	0	1.76	1.6	0	0	0	0	0	0
4/10/2024 16:15	46506	LOHA_T1	1	1	0	0.2	0.3	0.1	-0.49	-0.48	0	0	0	0	0	0
4/10/2024 16:15	46504	LOHA_T1	18	4	-14	0.2	0.53	0.33	0	0	0	0	0	0	0	0
4/10/2024 16:16	40101	HUNT_T2	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
4/10/2024 16:17	67603	WARW_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/10/2024 16:17	67605	WARW_T1	37	31	-6	0.59	0.54	-0.05	-1	-0.99	0	0	0	0	0	0
4/10/2024 16:19	51204	MTON_T2	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
4/10/2024 16:20	16402	MOPO_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
4/10/2024 16:20	65503	MOJO_T2	1	0	-1	0.1	0	-0.1	-1.07	-1.13	1	1	0	900	900	0
4/10/2024 16:23	57004	WHIH_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
4/10/2024 16:25	22003	BOHE_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/10/2024 16:25	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.85	-0.83	0	0	0	0	0	0
4/10/2024 16:25	67804	WLAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/10/2024 16:25	41502	FAIR_T2	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
4/10/2024 16:26	67804	WLAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/10/2024 16:26	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.85	-0.83	0	0	0	0	0	0
4/10/2024 16:27	67605	WARW_T1	37	31	-6	0.59	0.54	-0.05	-0.99	-1.01	0	0	0	0	0	0
4/10/2024 16:27	67603	WARW_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/10/2024 16:30	24105	EHAZ_T1	4	4	0	5.9	5.95	0.05	0	0	0	0	0	0	0	0
4/10/2024 16:30	24102	EHAZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/10/2024 16:30	25503	MADI_T1	189	206	17	0.47	0.58	0.11	-1.06	-1.05	0	0	0	0	0	0
4/10/2024 16:30	63401	HONY_T1	0	0	0	0	0	0	0.89	0.78	0	0	0	0	0	0
4/10/2024 16:30	24103	EHAZ_T1	0	0	0	0	0	0	-0.11	-0.07	0	0	0	0	0	0
4/10/2024 16:31	40902	JESH_T1	0	4	4	0	0.18	0.18	-0.87	-0.88	0	0	0	0	0	0
4/10/2024 16:31	45702	LIND_T2	1	1	0	1.1	2.1	1	-0.5	-0.66	0	0	0	0	0	0
4/10/2024 16:32	24102	EHAZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/10/2024 16:32	24105	EHAZ_T1	4	4	0	5.9	5.95	0.05	0	0	0	0	0	0	0	0
4/10/2024 16:32	24103	EHAZ_T1	0	0	0	0	0	0	-0.11	-0.07	0	0	0	0	0	0
4/10/2024 16:32	67605	WARW_T1	28	29	1	0.51	0.54	0.03	-0.99	-1.01	0	0	0	0	0	0
4/10/2024 16:38	45302	WBER_T2	1	13	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/10/2024 16:38	45303	WBER_T2	8	18	10	0.51	0.57	0.06	-0.13	-0.16	0	0	0	0	0	0
4/10/2024 16:38	45301	WBER_T2	2	14	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/10/2024 16:39	45302	WBER_T2	1	13	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/10/2024 16:39	45303	WBER_T2	8	18	10	0.51	0.57	0.06	-0.13	-0.16	0	0	0	0	0	0
4/10/2024 16:39	45301	WBER_T2	2	14	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/10/2024 16:41	45303	WBER_T2	8	18	10	0.51	0.57	0.06	-0.13	-0.16	0	0	0	0	0	0
4/10/2024 16:41	67804	WLAN_T1	0	0	0	0	0	0	-1.97	-1.97	0	0	0	0	0	0
4/10/2024 16:41	45301	WBER_T2	2	14	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/10/2024 16:41	45302	WBER_T2	1	13	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/10/2024 16:42	67605	WARW_T1	28	29	1	0.51	0.54	0.03	-1.01	-1.02	0	0	0	0	0	0
4/10/2024 16:43	67804	WLAN_T1	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
4/10/2024 16:47	67605	WARW_T1	29	25	-4	0.54	0.43	-0.11	-1.01	-1.02	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/10/2024 16:54	52004	LING_T2	1	3	2	0.8	0.47	-0.33	0.03	0.07	0	0	0	0	0	0
4/10/2024 16:54	52006	LING_T2	3	3	0	0.77	0.8	0.03	0	0	0	0	0	0	0	0
4/10/2024 16:54	52002	LING_T2	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
4/10/2024 16:58	45702	LIND_T2	1	2	1	1.9	1.15	-0.75	-0.7	-0.68	0	0	0	0	0	0
4/10/2024 17:01	40801	EXCH_T2	0	0	0	0	0	0	-0.42	-0.44	1	1	0	1200	1200	0
4/10/2024 17:02	40801	EXCH_T2	0	0	0	0	0	0	-0.42	-0.44	1	1	0	1200	1200	0
4/10/2024 17:07	17902	BART_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/10/2024 17:07	65802	RTWN_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
4/10/2024 17:09	60501	NMAN_T2	3	3	0	4.87	5.13	0.26	0	0	0	0	0	0	0	0
4/10/2024 17:09	67804	WLAN_T1	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
4/10/2024 17:09	60502	NMAN_T2	0	0	0	0	0	0	-0.19	-0.16	0	0	0	0	0	0
4/10/2024 17:12	46801	HEPB_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/10/2024 17:12	46803	HEPB_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
4/10/2024 17:23	20403	ASHF_T2	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
4/10/2024 17:28	63305	GREE_T1	8	2	-6	0.28	0.1	-0.18	-1.86	-1.86	1	1	0	900	900	0
4/10/2024 17:29	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/10/2024 17:32	12807	MICK_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/10/2024 17:32	63305	GREE_T1	1	1	0	0.1	0.1	0	-1.86	-1.86	1	1	0	900	900	0
4/10/2024 17:32	12801	MICK_T1	0	0	0	0	0	0	-0.11	-0.1	1	1	0	600	600	0
4/10/2024 17:34	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/10/2024 17:40	67502	WEWI_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
4/10/2024 17:52	66505	SMAN_T2	0	0	0	0	0	0	0.33	0.34	2	2	0	1100	1100	0
4/10/2024 17:54	66505	SMAN_T2	0	0	0	0	0	0	0.34	0.46	2	2	0	1100	1100	0
4/10/2024 17:55	43302	WATS_T2	4	4	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
4/10/2024 17:55	43301	WATS_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
4/10/2024 17:58	12006	HATF_T1	0	0	0	0	0	0	0.21	0.19	1	1	0	1200	1200	0
4/10/2024 18:01	26703	HEML_T1	0	1	1	0	0	0	-0.97	-0.97	1	1	0	600	600	0
4/10/2024 18:03	65603	QVIL_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
4/10/2024 18:05	64802	MONE_T2	8	39	31	0.11	0.12	0.01	0.21	0.19	0	0	0	0	0	0
4/10/2024 18:05	64801	MONE_T2	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
4/10/2024 18:08	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 18:17	23203	HIRU_T2	0	0	0	0	0	0	-0.12	-0.06	0	0	0	0	0	0
4/10/2024 18:20	65601	QVIL_T2	0	0	0	0	0	0	-0.07	0.01	0	0	0	0	0	0
4/10/2024 18:25	24102	EHAZ_T1	5	8	3	0.94	0.33	-0.61	0.98	0.99	0	0	0	0	0	0
4/10/2024 18:25	24105	EHAZ_T1	4	4	0	6.18	6.15	-0.03	0	0	0	0	0	0	0	0
4/10/2024 18:25	24101	EHAZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/10/2024 18:31	64403	LAND_T1	0	0	0	0	0	0	-1.52	-1.41	1	1	0	900	900	0
4/10/2024 18:34	51004	NHAR_T1	11	13	2	1.06	0.98	-0.08	-0.39	-0.42	0	0	0	0	0	0
4/10/2024 18:34	51003	NHAR_T1	3	4	1	0.17	0.33	0.16	0	0	0	0	0	0	0	0
4/10/2024 18:34	51002	NHAR_T1	1	1	0	1.9	2.1	0.2	0	0	0	0	0	0	0	0
4/10/2024 18:35	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 18:40	59101	WALK_T2	55	56	1	0.46	0.49	0.03	-0.67	-0.66	0	0	0	0	0	0
4/10/2024 18:40	59102	WALK_T2	37	18	-19	0.16	0.21	0.05	0	0	0	0	0	0	0	0
4/10/2024 18:40	45402	WBLO_T2	52	69	17	0.37	0.37	0	-0.91	-0.93	0	0	0	0	0	0
4/10/2024 18:45	59102	WALK_T2	16	40	24	0.19	0.21	0.02	0.36	0.33	0	0	0	0	0	0
4/10/2024 18:45	59101	WALK_T2	55	50	-5	0.5	0.29	-0.21	0	0	0	0	0	0	0	0
4/10/2024 18:47	45702	LIND_T2	1	68	67	2	0.21	-1.79	-0.69	-0.71	0	0	0	0	0	0
4/10/2024 18:51	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 18:55	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 18:57	53501	EVIL_T2	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
4/10/2024 18:57	53502	EVIL_T2	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
4/10/2024 19:02	40601	PIGR_T1	1	6	5	0.1	0.12	0.02	-0.1	-0.05	0	0	0	0	0	0
4/10/2024 19:05	41902	REED_T1	0	1	1	0	0	0	1.07	1.04	0	0	0	0	0	0
4/10/2024 19:05	67001	STHI_T2	2	4	2	0.15	0.15	0	0	0	0	0	0	0	0	0
4/10/2024 19:05	67002	STHI_T2	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
4/10/2024 19:07	40601	PIGR_T1	1	6	5	0.1	0.12	0.02	0	0	0	0	0	0	0	0
4/10/2024 19:07	40602	PIGR_T1	0	0	0	0	0	0	-0.6	-0.66	1	1	0	600	600	0
4/10/2024 19:13	11801	FRAN_T2	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
4/10/2024 20:10	45402	WBLO_T2	40	46	6	0.25	0.24	-0.01	-0.88	-0.91	0	0	0	0	0	0
4/10/2024 20:27	15602	NSTR_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 20:27	15601	NSTR_T2	12	19	7	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
4/10/2024 20:27	15603	NSTR_T2	6	16	10	0.18	0.19	0.01	-0.68	-0.68	0	0	0	0	0	0
4/10/2024 20:34	50502	MECH_T1	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
4/10/2024 20:34	50501	MECH_T1	4	4	0	0.4	0.43	0.03	0.08	0.26	0	0	0	0	0	0
4/10/2024 20:45	54601	SUMM_T2	9	11	2	0.36	0.44	0.08	-1.94	-1.95	2	2	0	2100	2100	0
4/10/2024 21:08	59402	RFLD_T2	0	0	0	0	0	0	-0.86	-0.84	1	1	0	450	450	0
4/10/2024 21:13	47401	PENS_T1	0	0	0	0	0	0	0.85	0.75	0	0	0	0	0	0
4/10/2024 21:13	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:13	16204	POFA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:14	47401	PENS_T1	0	0	0	0	0	0	1.7	1.51	0	0	0	0	0	0
4/10/2024 21:15	47401	PENS_T1	0	0	0	0	0	0	2.55	2.26	0	0	0	0	0	0
4/10/2024 21:16	24501	GOUL_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/10/2024 21:16	14201	EALL_T1	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
4/10/2024 21:16	47401	PENS_T1	0	0	0	0	0	0	0.85	0.75	0	0	0	0	0	0
4/10/2024 21:18	23404	HONE_T1	6	1	-5	0.28	1.2	0.92	0	0	0	0	0	0	0	0
4/10/2024 21:18	23403	HONE_T1	110	107	-3	0.18	0.19	0.01	-0.8	-0.75	0	0	0	0	0	0
4/10/2024 21:19	25503	MADI_T1	75	212	137	0.17	0.31	0.14	-1.07	-1.07	0	0	0	0	0	0
4/10/2024 21:19	14205	EALL_T2	0	0	0	0	0	0	-0.29	-0.33	0	0	0	0	0	0
4/10/2024 21:20	28703	HAML_T2	2	3	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/10/2024 21:20	28702	HAML_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:20	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:20	28704	HAML_T2	1	1	0	0.3	0.2	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/10/2024 21:21	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
4/10/2024 21:21	15801	WGAT_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
4/10/2024 21:21	15803	WGAT_T1	0	0	0	0	0	0	0.92	0.76	0	0	0	0	0	0
4/10/2024 21:21	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:22	11603	CEAL_T1	1	1	0	3.6	3.1	-0.5	0	0	0	0	0	0	0	0
4/10/2024 21:22	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/10/2024 21:22	12801	MICK_T1	0	0	0	0	0	0	-0.3	-0.28	1	1	0	600	600	0
4/10/2024 21:22	12803	MICK_T1	1	1	0	1.2	0.5	-0.7	0	0	0	0	0	0	0	0
4/10/2024 21:22	11601	CEAL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:22	12807	MICK_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/10/2024 21:22	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:22	10702	CATA_T2	1	2	1	0.4	0.4	0	-0.63	-0.65	0	0	0	0	0	0
4/10/2024 21:22	13502	MCMI_T1	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/10/2024 21:23	10702	CATA_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
4/10/2024 21:23	10707	CATA_T2	0	0	0	0	0	0	0.83	0.97	0	0	0	0	0	0
4/10/2024 21:24	13502	MCMI_T1	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/10/2024 21:24	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/10/2024 21:24	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/10/2024 21:24	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:24	26703	HEML_T1	0	0	0	0	0	0	-0.99	-0.98	1	1	0	600	600	0
4/10/2024 21:24	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:24	20201	JERM_T1	0	0	0	0	0	0	1.45	1.45	0	0	0	0	0	0
4/10/2024 21:25	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
4/10/2024 21:25	20401	ASHF_T2	0	1	1	0	0	0	-0.33	-0.34	0	0	0	0	0	0
4/10/2024 21:25	10801	OHHI_T1	3	0	-3	0.57	0	-0.57	-0.88	-0.89	1	1	0	900	900	0
4/10/2024 21:25	20403	ASHF_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
4/10/2024 21:25	15702	TANN_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
4/10/2024 21:25	15001	BLMO_T1	4	4	0	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
4/10/2024 21:26	17002	RIRO_T2	65	126	61	0.18	0.19	0.01	0.31	0.31	0	0	0	0	0	0
4/10/2024 21:26	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:26	11601	CEAL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:26	23203	HIRU_T2	0	0	0	0	0	0	0.04	-0.07	0	0	0	0	0	0
4/10/2024 21:26	13103	NHAM_T2	0	0	0	0	0	0	-1.76	-1.78	1	1	0	600	600	0
4/10/2024 21:26	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/10/2024 21:26	17902	BART_T2	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
4/10/2024 21:26	11603	CEAL_T1	1	1	0	3.6	3.1	-0.5	0	0	0	0	0	0	0	0
4/10/2024 21:27	15801	WGAT_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
4/10/2024 21:27	10701	CATA_T2	0	0	0	0	0	0	-0.73	-0.76	0	0	0	0	0	0
4/10/2024 21:27	15803	WGAT_T1	0	0	0	0	0	0	0.76	0.85	0	0	0	0	0	0
4/10/2024 21:27	13502	MCMI_T1	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/10/2024 21:27	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/10/2024 21:27	10702	CATA_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
4/10/2024 21:28	17401	FOHI_T1	0	0	0	0	0	0	-1.06	-1.01	0	0	0	0	0	0
4/10/2024 21:28	15001	BLMO_T1	4	4	0	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
4/10/2024 21:28	21606	EYNO_T1	0	0	0	0	0	0	-1.34	-1.35	1	1	0	1200	1200	0
4/10/2024 21:29	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:29	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:29	15702	TANN_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
4/10/2024 21:29	24902	WHHA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:29	24202	PROV_T4	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
4/10/2024 21:29	22003	BOHE_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/10/2024 21:29	10801	OHHI_T1	3	0	-3	0.57	0	-0.57	-0.88	-0.89	1	1	0	900	900	0
4/10/2024 21:29	26002	WDAM_T1	8	18	10	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
4/10/2024 21:29	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
4/10/2024 21:29	26001	WDAM_T1	0	1	1	0	0.1	0.1	-0.86	-0.86	0	0	0	0	0	0
4/10/2024 21:30	46802	HEPB_T1	1	1	0	0.8	1	0.2	-0.35	-0.38	0	0	0	0	0	0
4/10/2024 21:30	13303	ORVI_T1	0	0	0	0	0	0	-0.29	-0.42	0	0	0	0	0	0
4/10/2024 21:30	16101	BING_T2	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
4/10/2024 21:30	41502	FAIR_T2	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
4/10/2024 21:30	16402	MOPO_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
4/10/2024 21:31	24102	EHAZ_T1	5	1	-4	0.86	0.3	-0.56	0	0	0	0	0	0	0	0
4/10/2024 21:31	24105	EHAZ_T1	4	4	0	6.2	5.68	-0.52	0	0	0	0	0	0	0	0
4/10/2024 21:31	16102	BING_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
4/10/2024 21:31	13502	MCMI_T1	2	4	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/10/2024 21:31	64702	UTI_T2	0	0	0	0	0	0	-1.36	-1.2	0	0	0	0	0	0
4/10/2024 21:31	23202	HIRU_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
4/10/2024 21:31	15001	BLMO_T1	4	4	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
4/10/2024 21:31	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/10/2024 21:31	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:31	24103	EHAZ_T1	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
4/10/2024 21:32	28805	LAKE_T1	20	14	-6	0.3	0.3	0	-0.25	-0.25	0	0	0	0	0	0
4/10/2024 21:32	20401	ASHF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/10/2024 21:32	20403	ASHF_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
4/10/2024 21:32	28803	LAKE_T1	8	9	1	0.18	0.2	0.02	0	0	0	0	0	0	0	0
4/10/2024 21:32	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:32	10801	OHHI_T1	0	0	0	0	0	0	-0.88	-0.89	1	1	0	900	900	0
4/10/2024 21:32	28801	LAKE_T1	225	211	-14	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
4/10/2024 21:33	12701	MACU_T1	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
4/10/2024 21:33	16301	ALPA_T1	24	109	85	0.13	0.16	0.03	-0.45	-0.49	0	0	0	0	0	0
4/10/2024 21:33	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:34	15001	BLMO_T1	4	4	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/10/2024 21:34	51204	MTON_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
4/10/2024 21:34	57106	SPHI_T2	3	3	0	1.9	1.63	-0.27	0	0	0	0	0	0	0	0
4/10/2024 21:34	57101	SPHI_T2	6	6	0	1.03	1.37	0.34	0	0	0	0	0	0	0	0
4/10/2024 21:34	20401	ASHF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/10/2024 21:34	20403	ASHF_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
4/10/2024 21:34	16301	ALPA_T1	24	109	85	0.13	0.16	0.03	0.45	-0.49	0	0	0	0	0	0
4/10/2024 21:34	57104	SPHI_T2	1	2	1	6.8	1.8	-5	0	0	0	0	0	0	0	0
4/10/2024 21:34	45602	WOOL_T1	0	2	2	0	0.35	0.35	0.3	0.3	0	0	0	0	0	0
4/10/2024 21:34	57103	SPHI_T2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
4/10/2024 21:34	60701	BREC_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
4/10/2024 21:35	45702	LIND_T2	1	1	0	1.1	1.1	0	-0.62	-0.6	0	0	0	0	0	0
4/10/2024 21:35	43301	WATS_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
4/10/2024 21:35	67002	STHI_T2	5	71	66	0.1	0.15	0.05	0.57	0.57	0	0	0	0	0	0
4/10/2024 21:35	64204	KINZ_T1	4	26	22	0.43	0.35	-0.08	0	0	0	0	0	0	0	0
4/10/2024 21:35	15103	UPHA_T2	0	0	0	0	0	0	0.4	0.35	0	0	0	0	0	0
4/10/2024 21:35	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:35	20403	ASHF_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
4/10/2024 21:35	67703	WERN_T2	0	0	0	0	0	0	-0.35	-0.34	1	1	0	900	900	0
4/10/2024 21:35	20401	ASHF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/10/2024 21:35	43302	WATS_T2	4	4	0	1.13	1.23	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:35	51102	CARL_T1	38	131	93	0.14	0.28	0.14	0	0	0	0	0	0	0	0
4/10/2024 21:35	64203	KINZ_T1	0	26	26	0	0.13	0.13	0	0	0	0	0	0	0	0
4/10/2024 21:35	67001	STHI_T2	251	520	269	0.11	0.23	0.12	0	0	0	0	0	0	0	0
4/10/2024 21:35	61303	EARL_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
4/10/2024 21:35	61304	EARL_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:35	64201	KINZ_T1	5	9	4	0.3	0.54	0.24	0.8	0.65	2	2	0	600	600	0
4/10/2024 21:35	51101	CARL_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
4/10/2024 21:35	13302	ORVI_T2	0	0	0	0	0	0	1.27	1.35	0	0	0	0	0	0
4/10/2024 21:35	64202	KINZ_T1	8	24	16	0.14	0.25	0.11	0	0	0	0	0	0	0	0
4/10/2024 21:36	67703	WERN_T2	0	0	0	0	0	0	-0.35	-0.34	1	1	0	900	900	0
4/10/2024 21:36	59202	THOM_T1	277	430	153	0.31	0.61	0.3	0	0	0	0	0	0	0	0
4/10/2024 21:36	59002	MIFF_T1	5	6	1	0.24	0.57	0.33	0	0	0	0	0	0	0	0
4/10/2024 21:36	11801	FRAN_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
4/10/2024 21:36	13105	NHAM_T2	0	0	0	0	0	0	-0.73	-0.72	1	1	0	1200	1200	0
4/10/2024 21:36	65503	MOJO_T2	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
4/10/2024 21:36	24901	WHHA_T1	0	24	24	0	0.12	0.12	0	0	0	0	0	0	0	0
4/10/2024 21:36	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/10/2024 21:36	59003	MIFF_T1	1	1	0	0.3	0.6	0.3	0.47	0.67	0	0	0	0	0	0
4/10/2024 21:36	24902	WHHA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:36	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:36	59201	THOM_T1	15	33	18	0.27	0.5	0.23	0	0	0	0	0	0	0	0
4/10/2024 21:37	51102	CARL_T1	38	131	93	0.14	0.28	0.14	0	0	0	0	0	0	0	0
4/10/2024 21:37	65603	QVIL_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
4/10/2024 21:37	45701	LIND_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
4/10/2024 21:37	60701	BREC_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
4/10/2024 21:37	51101	CARL_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
4/10/2024 21:37	41901	REED_T1	7	8	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:37	58402	MORO_T1	0	0	0	0	0	0	-0.4	0.19	2	1	-1	1500	900	-600
4/10/2024 21:37	41902	REED_T1	0	0	0	0	0	0	1.05	1.05	0	0	0	0	0	0
4/10/2024 21:37	45702	LIND_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
4/10/2024 21:37	11805	FRAN_T1	0	0	0	0	0	0	-1.36	-1.24	1	1	0	1200	1200	0
4/10/2024 21:37	45902	AUBU_T1	14	15	1	0.21	0.18	-0.03	-1.08	-1.12	1	1	0	600	600	0
4/10/2024 21:37	60101	COCA_T1	0	0	0	0	0	0	0.19	0.22	0	0	0	0	0	0
4/10/2024 21:37	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:37	56603	HAMP_T1	0	0	0	0	0	0	-1.09	-1.1	0	0	0	0	0	0
4/10/2024 21:37	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:38	60501	NMAN_T2	3	11	8	5.03	1.59	-3.44	0	0	0	0	0	0	0	0
4/10/2024 21:38	67805	WLAN_T1	269	326	57	0.17	0.22	0.05	-1.43	-1.39	0	0	0	0	0	0
4/10/2024 21:38	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:38	57004	WHHI_T2	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
4/10/2024 21:38	46301	ROHR_T1	314	356	42	0.7	0.71	0.01	0.16	0.15	0	0	0	0	0	0
4/10/2024 21:38	46302	ROHR_T1	171	183	12	0.41	0.48	0.07	0	0	0	0	0	0	0	0
4/10/2024 21:38	51002	NHAR_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
4/10/2024 21:38	60502	NMAN_T2	0	0	0	0	0	0	-0.43	-0.47	0	0	0	0	0	0
4/10/2024 21:38	63202	MGTN_T2	0	0	0	0	0	0	-0.02	-0.04	1	1	0	900	900	0
4/10/2024 21:38	51004	NHAR_T1	7	13	6	1.39	1.25	-0.14	-0.48	-0.45	0	0	0	0	0	0
4/10/2024 21:38	51003	NHAR_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/10/2024 21:38	51006	NHAR_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:39	57304	MOAL_T2	53	31	-22	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/10/2024 21:39	27502	WEIS_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
4/10/2024 21:39	60803	BUCK_T1	21	26	5	0.3	0.35	0.05	-0.55	-0.55	1	1	0	600	600	0
4/10/2024 21:39	41202	KENM_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:39	45303	WBER_T2	31	122	91	0.47	0.29	-0.18	-0.22	-0.22	0	0	0	0	0	0
4/10/2024 21:39	45302	WBER_T2	17	60	43	0.16	0.22	0.06	0	0	0	0	0	0	0	0
4/10/2024 21:39	51204	MTON_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
4/10/2024 21:39	50105	HARR_T3	8	8	0	5.5	5.46	-0.04	0	0	0	0	0	0	0	0
4/10/2024 21:39	63403	HONY_T2	0	0	0	0	0	0	-0.49	0.05	1	0	-1	600	0	-600
4/10/2024 21:39	28403	HART_T2	0	0	0	0	0	0	-0.95	-0.98	1	1	0	900	900	0
4/10/2024 21:39	59201	THOM_T1	15	33	18	0.27	0.5	0.23	0	0	0	0	0	0	0	0
4/10/2024 21:39	67804	WLAN_T1	0	0	0	0	0	0	-1.06	-1.08	0	0	0	0	0	0
4/10/2024 21:39	57401	SPAN_T1	2	2	0	0.15	0.5	0.35	-1.01	-1.04	1	1	0	600	600	0
4/10/2024 21:39	63402	HONY_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:39	46301	ROHR_T1	314	356	42	0.7	0.71	0.01	0.16	0.15	0	0	0	0	0	0
4/10/2024 21:39	46801	HEPB_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:39	60701	BREC_T1	0	0	0	0	0	0	0.06	-0.05	0	0	0	0	0	0
4/10/2024 21:39	57301	MOAL_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
4/10/2024 21:39	41205	KENM_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
4/10/2024 21:39	40902	JESH_T1	0	0	0	0	0	0	-0.93	-0.96	0	0	0	0	0	0
4/10/2024 21:39	40602	PIGR_T1	0	0	0	0	0	0	-0.7	-0.73	1	1	0	600	600	0
4/10/2024 21:39	41305	FISH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:39	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:39	45702	LIND_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
4/10/2024 21:39	40601	PIGR_T1	91	143	52	0.17	0.2	0.03	0	0	0	0	0	0	0	0
4/10/2024 21:39	59202	THOM_T1	277	430	153	0.31	0.61	0.3	0	0	0	0	0	0	0	0
4/10/2024 21:39	47001	HUGH_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
4/10/2024 21:39	61103	BERK_T5	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/10/2024 21:39	65503	MOJO_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
4/10/2024 21:39	50202	HARR_T3	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/10/2024 21:39	45301	WBER_T2	29	74	45	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/10/2024 21:39	67605	WARW_T1	33	49	16	0.5	0.63	0.13	-2.34	-2.39	0	0	0	0	0	0
4/10/2024 21:39	12006	HATF_T1	0	0	0	0	0	0	1.13	1.13	1	0	-1	1200	0	-1200
4/10/2024 21:39	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
4/10/2024 21:39	44601	SALE_T2	1	1	0	0.3	0.4	0.1	-0.05	-0.05	0	0	0	0	0	0
4/10/2024 21:39	46803	HEPB_T2	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
4/10/2024 21:39	46302	ROHR_T1	171	183	12	0.41	0.48	0.07	0	0	0	0	0	0	0	0
4/10/2024 21:39	67805	WLAN_T1	269	326	57	0.17	0.22	0.05	0	0	0	0	0	0	0	0
4/10/2024 21:39	58003	WCAR_T1	1	1	0	1.1	1.4	0.3	-0.04	-0.04	1	1	0	600	600	0
4/10/2024 21:39	57306	MOAL_T2	0	0	0	0	0	0	-1.93	-1.94	0	0	0	0	0	0
4/10/2024 21:39	65601	QVIL_T2	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
4/10/2024 21:39	20401	ASHF_T2	0	1	1	0	0.4	0.4	-0.34	-0.39	0	0	0	0	0	0
4/10/2024 21:39	45701	LIND_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
4/10/2024 21:39	57303	MOAL_T2	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
4/10/2024 21:39	46206	DANV_T2	0	0	0	0	0	0	2.08	2	1	1	0	1200	1200	0
4/10/2024 21:39	41301	FISH_T1	6	27	21	0.87	0.31	-0.56	-0.01	-0.07	0	0	0	0	0	0
4/10/2024 21:39	58001	WCAR_T1	4	4	0	0.5	0.95	0.45	0	0	0	0	0	0	0	0
4/10/2024 21:39	50103	HARR_T3	2	2	0	0.2	1.05	0.85	-0.79	-0.82	1	1	0	1200	1200	0
4/10/2024 21:39	50201	HARR_T3	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:39	60801	BUCK_T1	49	58	9	0.28	0.32	0.04	-0.2	-0.2	0	0	0	0	0	0
4/10/2024 21:39	40801	EXCH_T2	0	0	0	0	0	0	0.76	0.79	0	0	0	0	0	0
4/10/2024 21:40	58401	MORO_T1	0	0	0	0	0	0	-1.24	-1.25	1	1	0	600	600	0
4/10/2024 21:40	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
4/10/2024 21:40	46506	LOHA_T1	0	1	1	0	0.2	0.2	-0.47	-0.5	0	0	0	0	0	0
4/10/2024 21:40	59202	THOM_T1	277	430	153	0.31	0.61	0.3	0	0	0	0	0	0	0	0
4/10/2024 21:40	46003	BERW_T2	2	58	56	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/10/2024 21:40	57103	SPHI_T2	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
4/10/2024 21:40	67502	WEWI_T2	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
4/10/2024 21:40	58003	WCAR_T1	1	1	0	1.1	1.4	0.3	-0.04	-0.04	1	1	0	600	600	0
4/10/2024 21:40	67703	WERN_T2	0	0	0	0	0	0	-0.34	-0.31	1	1	0	900	900	0
4/10/2024 21:40	64204	KINZ_T1	4	26	22	0.43	0.35	-0.08	0	0	0	0	0	0	0	0
4/10/2024 21:40	58001	WCAR_T1	4	4	0	0.5	0.95	0.45	0	0	0	0	0	0	0	0
4/10/2024 21:40	57106	SPHI_T2	3	3	0	1.9	1.63	-0.27	0	0	0	0	0	0	0	0
4/10/2024 21:40	64203	KINZ_T1	0	26	26	0	0.13	0.13	0	0	0	0	0	0	0	0
4/10/2024 21:40	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:40	45901	AUBU_T1	0	0	0	0	0	0	2.02	1.99	0	0	0	0	0	0
4/10/2024 21:40	57104	SPHI_T2	1	2	1	6.8	1.8	-5	0	0	0	0	0	0	0	0
4/10/2024 21:40	45702	LIND_T2	1	1	0	1.1	1.1	0	-0.6	-0.64	0	0	0	0	0	0
4/10/2024 21:40	67503	WEWI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/10/2024 21:40	28403	HART_T2	0	0	0	0	0	0	-0.95	-0.98	1	1	0	900	900	0
4/10/2024 21:40	66703	STRA_T1	1	2	1	0.1	0.25	0.15	-0.37	-0.38	0	0	0	0	0	0
4/10/2024 21:40	65802	RTWN_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
4/10/2024 21:40	60502	NMAN_T2	0	0	0	0	0	0	-0.43	-0.47	0	0	0	0	0	0
4/10/2024 21:40	57401	SPAN_T1	2	2	0	0.15	0.5	0.35	-1.01	-1.04	1	1	0	600	600	0
4/10/2024 21:40	67204	TEHI_T2	113	118	5	0.28	0.32	0.04	0.05	0.04	0	0	0	0	0	0
4/10/2024 21:40	60101	COCA_T1	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
4/10/2024 21:40	58402	MORO_T1	0	0	0	0	0	0	0.19	0	1	1	0	900	900	0
4/10/2024 21:40	55002	NEWP_T1	6	6	0	1.07	1.63	0.56	-0.3	-0.3	0	0	0	0	0	0
4/10/2024 21:40	64403	LAND_T1	0	0	0	0	0	0	1.43	1.35	1	1	0	900	900	0
4/10/2024 21:40	67805	WLAN_T1	269	326	57	0.17	0.22	0.05	0	0	0	0	0	0	0	0
4/10/2024 21:40	59302	MCAL_T1	1	1	0	0.6	1.2	0.6	0	0	0	0	0	0	0	0
4/10/2024 21:40	60801	BUCK_T1	49	58	9	0.28	0.32	0.04	0	0	0	0	0	0	0	0
4/10/2024 21:40	60501	NMAN_T2	3	11	8	5.03	1.59	-3.44	0	0	0	0	0	0	0	0
4/10/2024 21:40	59201	THOM_T1	15	33	18	0.27	0.5	0.23	0	0	0	0	0	0	0	0
4/10/2024 21:40	42401	GIMA_T1	8	24	16	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/10/2024 21:40	67605	WARW_T1	33	49	16	0.5	0.63	0.13	-1.17	-1.19	0	0	0	0	0	0
4/10/2024 21:40	20401	ASHF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/10/2024 21:40	59301	MCAL_T1	4	76	72	0.58	0.42	-0.16	-1.21	-1.2	0	0	0	0	0	0
4/10/2024 21:40	20403	ASHF_T2	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
4/10/2024 21:40	46504	LOHA_T1	2	11	9	0.55	0.32	-0.23	0	0	0	0	0	0	0	0
4/10/2024 21:40	64202	KINZ_T1	8	24	16	0.14	0.25	0.11	0.7	0.71	0	0	0	0	0	0
4/10/2024 21:40	60803	BUCK_T1	21	26	5	0.3	0.35	0.05	-0.55	-0.55	1	1	0	600	600	0
4/10/2024 21:40	46002	BERW_T2	1	29	28	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/10/2024 21:40	57101	SPHI_T2	6	6	0	1.03	1.37	0.34	0	0	0	0	0	0	0	0
4/10/2024 21:40	64201	KINZ_T1	5	9	4	0.3	0.54	0.24	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/10/2024 21:40	55003	NEWP_T2	4	9	5	0.13	0.43	0.3	-0.29	-0.29	0	0	0	0	0	0
4/10/2024 21:40	67804	WLAN_T1	0	0	0	0	0	0	-2.12	-2.16	0	0	0	0	0	0
4/10/2024 21:40	46004	BERW_T2	0	7	7	0	0.11	0.11	-0.5	-0.4	0	0	0	0	0	0
4/10/2024 21:40	60701	BREC_T1	0	0	0	0	0	0	0.03	-0.02	0	0	0	0	0	0
4/10/2024 21:40	45902	AUBU_T1	14	15	1	0.21	0.18	-0.03	-1.12	-1.21	1	1	0	600	600	0
4/10/2024 21:40	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:41	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:41	51603	DUKE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:41	60801	BUCK_T1	49	58	9	0.28	0.32	0.04	-0.2	-0.2	0	0	0	0	0	0
4/10/2024 21:41	67803	WLAN_T1	0	0	0	0	0	0	-1.8	-1.78	0	0	0	0	0	0
4/10/2024 21:41	63602	LETO_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
4/10/2024 21:41	57401	SPAN_T1	2	2	0	0.15	0.5	0.35	-1.01	-1.04	1	1	0	600	600	0
4/10/2024 21:41	47001	HUGH_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
4/10/2024 21:41	57301	MOAL_T2	3	0	-3	0.37	0	-0.37	0.29	0.29	0	0	0	0	0	0
4/10/2024 21:41	60502	NMAN_T2	0	0	0	0	0	0	-0.43	-0.47	0	0	0	0	0	0
4/10/2024 21:41	57304	MOAL_T2	53	31	-22	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/10/2024 21:41	61103	BERK_T5	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/10/2024 21:41	61304	EARL_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:41	40902	JESH_T1	0	0	0	0	0	0	-0.93	-0.96	0	0	0	0	0	0
4/10/2024 21:41	57303	MOAL_T2	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
4/10/2024 21:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:41	44301	BEAV_T2	0	0	0	0	0	0	0.4	0.42	1	1	0	600	600	0
4/10/2024 21:41	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/10/2024 21:41	54602	SUMM_T2	0	8	8	0	0.15	0.15	0	0	0	0	0	0	0	0
4/10/2024 21:41	66502	SMAN_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
4/10/2024 21:41	67605	WARW_T1	33	49	16	0.5	0.63	0.13	0	0	0	0	0	0	0	0
4/10/2024 21:41	63804	HEMP_T1	5	1	-4	1.14	5.6	4.46	0.46	-0.85	0	0	0	0	0	0
4/10/2024 21:41	58003	WCAR_T1	1	1	0	1.1	1.4	0.3	-0.04	-0.04	1	1	0	600	600	0
4/10/2024 21:41	67804	WLAN_T1	0	0	0	0	0	0	-1.06	-1.08	0	0	0	0	0	0
4/10/2024 21:41	60501	NMAN_T2	3	11	8	5.03	1.59	-3.44	0	0	0	0	0	0	0	0
4/10/2024 21:41	66505	SMAN_T2	3	2	-1	0.33	0.35	0.02	0	0	0	0	0	0	0	0
4/10/2024 21:41	55002	NEWP_T1	6	6	0	1.07	1.63	0.56	-0.3	-0.3	0	0	0	0	0	0
4/10/2024 21:41	54601	SUMM_T2	13	13	0	0.65	0.8	0.15	-1.95	-1.97	2	2	0	2100	2100	0
4/10/2024 21:41	63803	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/10/2024 21:41	20403	ASHF_T2	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
4/10/2024 21:41	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
4/10/2024 21:41	40303	TAMA_T3	3	3	0	0.63	0.67	0.04	0	0	0	0	0	0	0	0
4/10/2024 21:41	67204	TEHI_T2	113	118	5	0.28	0.32	0.04	0.05	0.04	0	0	0	0	0	0
4/10/2024 21:41	67805	WLAN_T1	269	326	57	0.17	0.22	0.05	0	0	0	0	0	0	0	0
4/10/2024 21:41	58001	WCAR_T1	4	4	0	0.5	0.95	0.45	0	0	0	0	0	0	0	0
4/10/2024 21:41	60701	BREC_T1	0	0	0	0	0	0	0.03	-0.02	0	0	0	0	0	0
4/10/2024 21:41	20401	ASHF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/10/2024 21:41	49804	UNIV_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/10/2024 21:41	44302	BEAV_T2	0	11	11	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:41	61303	EARL_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
4/10/2024 21:41	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:41	49803	UNIV_T1	0	0	0	0	0	0	-1.19	0.1	0	0	0	0	0	0
4/10/2024 21:41	42701	AUGU_T1	1	1	0	0.6	0.7	0.1	0	0	2	2	0	1800	1800	0
4/10/2024 21:41	45702	LIND_T2	1	1	0	1.1	1.1	0	-0.6	-0.64	0	0	0	0	0	0
4/10/2024 21:41	60803	BUCK_T1	21	26	5	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/10/2024 21:41	40302	TAMA_T3	46	50	4	0.48	0.54	0.06	0.36	0.35	0	0	0	0	0	0
4/10/2024 21:42	65802	RTWN_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
4/10/2024 21:42	63804	HEMP_T1	5	1	-4	1.14	5.6	4.46	0	0	0	0	0	0	0	0
4/10/2024 21:42	43705	WILL_T1	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
4/10/2024 21:42	57401	SPAN_T1	2	2	0	0.15	0.5	0.35	-1.01	-1.04	1	1	0	600	600	0
4/10/2024 21:42	52002	LING_T2	1	1	0	1.4	1.8	0.4	0	0	0	0	0	0	0	0
4/10/2024 21:42	42902	MIDD_T2	11	53	42	0.15	0.2	0.05	-0.48	-0.45	0	0	0	0	0	0
4/10/2024 21:42	67201	TEHI_T1	10	28	18	0.15	0.16	0.01	0	0	0	0	0	0	0	0
4/10/2024 21:42	55002	NEWP_T1	6	6	0	1.07	1.63	0.56	0	0	0	0	0	0	0	0
4/10/2024 21:42	40601	PIGR_T1	91	143	52	0.17	0.2	0.03	-0.21	-0.18	0	0	0	0	0	0
4/10/2024 21:42	45602	WOOL_T1	0	2	2	0	0.35	0.35	0.3	0.31	0	0	0	0	0	0
4/10/2024 21:42	43704	WILL_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:42	52004	LING_T2	0	1	1	0	0.6	0.6	0.1	0.1	0	0	0	0	0	0
4/10/2024 21:42	59301	MCAL_T1	4	76	72	0.58	0.42	-0.16	-2.41	-2.4	0	0	0	0	0	0
4/10/2024 21:42	52006	LING_T2	3	3	0	1.07	1.5	0.43	0	0	0	0	0	0	0	0
4/10/2024 21:42	63803	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/10/2024 21:42	59302	MCAL_T1	1	1	0	0.6	1.2	0.6	0	0	0	0	0	0	0	0
4/10/2024 21:42	43701	WILL_T1	0	0	0	0	0	0	0.08	0.03	0	0	0	0	0	0
4/10/2024 21:42	42802	SELI_T1	1	1	0	0.6	0.2	-0.4	-1.04	-1.03	1	0	-1	900	0	-900
4/10/2024 21:42	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/10/2024 21:42	40602	PIGR_T1	0	0	0	0	0	0	-1.39	-1.46	2	2	0	1200	1200	0
4/10/2024 21:42	46001	BERW_T1	0	0	0	0	0	0	0.95	0.92	0	0	0	0	0	0
4/10/2024 21:42	59402	RFLD_T2	0	0	0	0	0	0	-0.84	-0.86	1	1	0	450	450	0
4/10/2024 21:42	67203	TEHI_T1	0	0	0	0	0	0	2.36	2.27	1	1	0	600	600	0
4/10/2024 21:42	65903	SAKR_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/10/2024 21:42	57403	SPAN_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
4/10/2024 21:42	42903	MIDD_T2	2	2	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
4/10/2024 21:42	65902	SAKR_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/10/2024 21:42	42901	MIDD_T2	13	90	77	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/10/2024 21:42	45902	AUBU_T1	14	15	1	0.21	0.18	-0.03	-1.12	-1.21	1	1	0	600	600	0
4/10/2024 21:42	66504	SMAN_T2	0	0	0	0	0	0	-1.03	-0.95	0	0	0	0	0	0
4/10/2024 21:42	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.11	0	0	0	0	0	0
4/10/2024 21:42	51603	DUKE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:42	66505	SMAN_T2	3	2	-1	0.33	0.35	0.02	0	0	0	0	0	0	0	0
4/10/2024 21:42	55001	NEWP_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
4/10/2024 21:42	65901	SAKR_T2	0	0	0	0	0	0	-1.36	-1.34	1	1	0	900	900	0
4/10/2024 21:42	67605	WARW_T1	33	49	16	0.5	0.63	0.13	-1.17	-1.19	0	0	0	0	0	0
4/10/2024 21:43	67801	WLAN_T1	0	0	0	0	0	0	0.05	0.09	0	0	0	0	0	0
4/10/2024 21:43	67805	WLAN_T1	269	326	57	0.17	0.22	0.05	0	0	0	0	0	0	0	0
4/10/2024 21:43	57002	WHHI_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
4/10/2024 21:43	67803	WLAN_T1	0	0	0	0	0	0	-1.8	-1.78	0	0	0	0	0	0
4/10/2024 21:43	60803	BUCK_T1	21	26	5	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/10/2024 21:43	45901	AUBU_T1	0	0	0	0	0	0	2.02	1.99	0	0	0	0	0	0
4/10/2024 21:43	59102	WALK_T2	63	83	20	0.23	0.59	0.36	0	0	0	0	0	0	0	0
4/10/2024 21:43	63804	HEMP_T1	5	1	-4	1.14	5.6	4.46	0	0	0	0	0	0	0	0
4/10/2024 21:43	64101	REFR_T1	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
4/10/2024 21:43	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.11	0	0	0	0	0	0
4/10/2024 21:43	57303	MOAL_T2	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
4/10/2024 21:43	63404	HONY_T1	0	11	11	0	0.15	0.15	0	0	0	0	0	0	0	0
4/10/2024 21:43	57004	WHHI_T2	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
4/10/2024 21:43	57304	MOAL_T2	53	31	-22	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/10/2024 21:43	67503	WEWI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/10/2024 21:43	67501	WEWI_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
4/10/2024 21:43	57301	MOAL_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
4/10/2024 21:43	41901	REED_T1	7	8	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:43	41902	REED_T1	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
4/10/2024 21:43	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
4/10/2024 21:43	60802	BUCK_T2	0	15	15	0	0.1	0.1	0.14	0.16	0	0	0	0	0	0
4/10/2024 21:43	49804	UNIV_T1	0	2	2	0	0.15	0.15	0.57	0.41	0	0	0	0	0	0
4/10/2024 21:43	63803	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/10/2024 21:43	60101	COCA_T1	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
4/10/2024 21:43	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/10/2024 21:43	67804	WLAN_T1	0	0	0	0	0	0	-1.06	-1.08	0	0	0	0	0	0
4/10/2024 21:43	57306	MOAL_T2	0	0	0	0	0	0	-3.86	-3.87	0	0	0	0	0	0
4/10/2024 21:43	67502	WEWI_T2	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
4/10/2024 21:43	67605	WARW_T1	33	49	16	0.5	0.63	0.13	0	0	0	0	0	0	0	0
4/10/2024 21:43	45902	AUBU_T1	14	15	1	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
4/10/2024 21:43	60801	BUCK_T1	49	58	9	0.28	0.32	0.04	-0.2	-0.2	0	0	0	0	0	0
4/10/2024 21:43	59101	WALK_T2	62	79	17	0.42	0.7	0.28	-0.73	-0.75	0	0	0	0	0	0
4/10/2024 21:43	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:43	63401	HONY_T1	0	0	0	0	0	0	0.71	0.58	0	0	0	0	0	0
4/10/2024 21:44	59101	WALK_T2	62	79	17	0.42	0.7	0.28	-0.73	-0.75	0	0	0	0	0	0
4/10/2024 21:44	64801	MONE_T2	20	46	26	0.13	0.21	0.08	0	0	0	0	0	0	0	0
4/10/2024 21:44	59102	WALK_T2	63	83	20	0.23	0.59	0.36	0	0	0	0	0	0	0	0
4/10/2024 21:44	43802	SWIL_T1	0	0	0	0	0	0	-0.35	-0.34	1	1	0	600	600	0
4/10/2024 21:44	58401	MORO_T1	0	0	0	0	0	0	-1.24	-1.25	1	1	0	600	600	0
4/10/2024 21:44	55002	NEWP_T1	6	6	0	1.07	1.63	0.56	-0.3	-0.3	0	0	0	0	0	0
4/10/2024 21:44	67401	WAKE_T2	94	153	59	0.22	0.3	0.08	0	0	0	0	0	0	0	0
4/10/2024 21:44	51603	DUKE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:44	67805	WLAN_T1	269	326	57	0.17	0.22	0.05	0	0	0	0	0	0	0	0
4/10/2024 21:44	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
4/10/2024 21:44	67804	WLAN_T1	0	0	0	0	0	0	-1.06	-1.08	0	0	0	0	0	0
4/10/2024 21:44	44601	SALE_T2	1	1	0	0.3	0.4	0.1	-0.05	-0.05	0	0	0	0	0	0
4/10/2024 21:44	45402	WBLO_T2	52	83	31	0.31	0.34	0.03	-0.98	-0.97	0	0	0	0	0	0
4/10/2024 21:44	64802	MONE_T2	42	99	57	0.14	0.19	0.05	0.17	0.17	0	0	0	0	0	0
4/10/2024 21:44	60902	DONG_T2	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
4/10/2024 21:44	59302	MCAL_T1	1	1	0	0.6	1.2	0.6	-0.35	-0.33	1	1	0	600	600	0
4/10/2024 21:44	42201	SHEN_T2	0	0	0	0	0	0	-0.01	-0.03	1	1	0	600	600	0
4/10/2024 21:44	59301	MCAL_T1	4	76	72	0.58	0.42	-0.16	0	0	0	0	0	0	0	0
4/10/2024 21:44	43801	SWIL_T1	4	8	4	1.73	0.95	-0.78	0	0	0	0	0	0	0	0
4/10/2024 21:44	67803	WLAN_T1	0	0	0	0	0	0	-1.8	-1.78	0	0	0	0	0	0
4/10/2024 21:44	66503	SMAN_T2	0	0	0	0	0	0	0.38	0.43	0	0	0	0	0	0
4/10/2024 21:44	66505	SMAN_T2	3	2	-1	0.33	0.35	0.02	0	0	0	0	0	0	0	0
4/10/2024 21:44	57004	WHHI_T2	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
4/10/2024 21:44	67605	WARW_T1	33	49	16	0.5	0.63	0.13	-1.17	-1.19	0	0	0	0	0	0
4/10/2024 21:44	63305	GREE_T1	0	0	0	0	0	0	-1.08	-1.02	0	0	0	0	0	0
4/10/2024 21:45	61304	EARL_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:45	67401	WAKE_T2	122	217	95	0.26	0.33	0.07	-1.86	-1.88	0	0	0	0	0	0
4/10/2024 21:45	53502	EVIL_T2	0	0	0	0	0	0	0.62	0.56	0	0	0	0	0	0
4/10/2024 21:45	61801	EELI_T2	0	1	1	0	0	0	-1.03	-1.05	1	0	-1	600	0	-600
4/10/2024 21:45	53901	HALI_T2	1	1	0	0.8	1.1	0.3	-1.11	-1.11	0	0	0	0	0	0
4/10/2024 21:45	51401	LYKE_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
4/10/2024 21:45	45302	WBER_T2	27	60	33	0.19	0.22	0.03	0	0	0	0	0	0	0	0
4/10/2024 21:45	64404	LAND_T2	73	8	-65	0.19	0.1	-0.09	0	0	0	0	0	0	0	0
4/10/2024 21:45	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:45	52004	LING_T2	1	1	0	0.2	0.6	0.4	0.1	0.1	0	0	0	0	0	0
4/10/2024 21:45	60801	BUCK_T1	50	74	24	0.32	0.44	0.12	-0.2	-0.2	0	0	0	0	0	0
4/10/2024 21:45	52006	LING_T2	3	3	0	1.07	1.5	0.43	0	0	0	0	0	0	0	0
4/10/2024 21:45	67605	WARW_T1	38	49	11	0.57	0.62	0.05	0	0	0	0	0	0	0	0
4/10/2024 21:45	65503	MOJO_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
4/10/2024 21:45	41902	REED_T1	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
4/10/2024 21:45	63801	HEMP_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
4/10/2024 21:45	20603	GRWO_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/10/2024 21:45	64402	LAND_T2	0	0	0	0	0	0	-0.48	-0.49	1	1	0	600	600	0
4/10/2024 21:45	61303	EARL_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
4/10/2024 21:45	63401	HONY_T1	0	0	0	0	0	0	0.71	0.58	0	0	0	0	0	0
4/10/2024 21:45	66505	SMAN_T2	2	2	0	0.1	0.35	0.25	0.08	0.14	2	2	0	1100	1100	0
4/10/2024 21:45	67604	WARW_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
4/10/2024 21:45	64802	MONE_T2	71	156	85	0.14	0.23	0.09	0.17	0.17	0	0	0	0	0	0
4/10/2024 21:45	42701	AUGU_T1	1	1	0	0.5	0.7	0.2	0	0	2	2	0	1800	1800	0
4/10/2024 21:45	41901	REED_T1	7	8	1	0.17	0.3	0.13	0	0	0	0	0	0	0	0
4/10/2024 21:45	45301	WBER_T2	48	72	24	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/10/2024 21:45	63404	HONY_T1	2	84	82	0.1	0.21	0.11	0	0	0	0	0	0	0	0
4/10/2024 21:45	67502	WEWI_T2	0	4	4	0	0.1	0.1	-0.49	-0.48	0	0	0	0	0	0
4/10/2024 21:45	53501	EVIL_T2	2	6	4	0.55	0.84	0.29	0	0	0	0	0	0	0	0
4/10/2024 21:45	42901	MIDD_T2	40	220	180	0.14	0.35	0.21	0	0	0	0	0	0	0	0
4/10/2024 21:45	63804	HEMP_T1	1	1	0	6	5.6	-0.4	0.91	-1.69	0	0	0	0	0	0
4/10/2024 21:45	53903	HALI_T2	2	2	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:45	42903	MIDD_T2	2	4	2	2.1	1.4	-0.7	-0.1	-0.1	0	0	0	0	0	0
4/10/2024 21:45	45303	WBER_T2	54	122	68	0.38	0.29	-0.09	-0.22	-0.22	0	0	0	0	0	0
4/10/2024 21:45	51402	LYKE_T1	0	10	10	0	0.14	0.14	0	0	0	0	0	0	0	0
4/10/2024 21:45	52002	LING_T2	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
4/10/2024 21:45	60803	BUCK_T1	22	29	7	0.31	0.38	0.07	0	0	0	0	0	0	0	0
4/10/2024 21:45	64801	MONE_T2	34	56	22	0.18	0.29	0.11	0	0	0	0	0	0	0	0
4/10/2024 21:45	53902	HALI_T2	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
4/10/2024 21:45	57401	SPAN_T1	2	2	0	0.5	0.55	0.05	-1.01	-1.04	1	1	0	600	600	0
4/10/2024 21:45	42902	MIDD_T2	17	133	116	0.18	0.36	0.18	-0.48	-0.45	0	0	0	0	0	0
4/10/2024 21:46	42901	MIDD_T2	40	220	180	0.14	0.35	0.21	0	0	0	0	0	0	0	0
4/10/2024 21:46	45501	DERR_T2	1	1	0	0.1	0.6	0.5	-0.44	-0.46	2	2	0	1800	1800	0
4/10/2024 21:46	45802	HEGI_T2	1	1	0	0.3	0	-0.3	1.21	1.37	0	0	0	0	0	0
4/10/2024 21:46	42903	MIDD_T2	2	4	2	2.1	1.4	-0.7	0	0	0	0	0	0	0	0
4/10/2024 21:46	40602	PIGR_T1	0	0	0	0	0	0	-0.7	-0.73	1	1	0	600	600	0
4/10/2024 21:46	40601	PIGR_T1	56	144	88	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/10/2024 21:46	42802	SELI_T1	1	0	-1	0.2	0	-0.2	-1.04	-1.03	1	0	-1	900	0	-900
4/10/2024 21:46	42902	MIDD_T2	17	133	116	0.18	0.36	0.18	-0.48	-0.45	0	0	0	0	0	0
4/10/2024 21:46	65604	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:46	57004	WHHI_T2	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
4/10/2024 21:46	45902	AUBU_T1	14	15	1	0.19	0.14	-0.05	-1.12	-1.21	1	1	0	600	600	0
4/10/2024 21:46	67803	WLAN_T1	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
4/10/2024 21:46	65603	QVIL_T2	0	10	10	0	0.12	0.12	-0.02	-0.02	0	0	0	0	0	0
4/10/2024 21:46	67805	WLAN_T1	270	323	53	0.17	0.22	0.05	0	0	0	0	0	0	0	0
4/10/2024 21:46	55002	NEWP_T1	6	6	0	1.32	1.63	0.31	-0.6	-0.6	0	0	0	0	0	0
4/10/2024 21:46	59402	RELD_T2	0	0	0	0	0	0	-1.68	-1.72	2	2	0	900	900	0
4/10/2024 21:46	58401	MORO_T1	0	0	0	0	0	0	-1.24	-1.25	1	1	0	600	600	0
4/10/2024 21:46	64303	LINC_T1	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
4/10/2024 21:46	65601	QVIL_T2	0	9	9	0	0.11	0.11	0	0	0	0	0	0	0	0
4/10/2024 21:46	60101	COCA_T1	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
4/10/2024 21:46	67804	WLAN_T1	0	0	0	0	0	0	-1.06	-1.08	0	0	0	0	0	0
4/10/2024 21:47	63306	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:47	60501	NMAN_T2	4	11	7	4.15	1.52	-2.63	0	0	0	0	0	0	0	0
4/10/2024 21:47	67805	WLAN_T1	270	323	53	0.17	0.22	0.05	0	0	0	0	0	0	0	0
4/10/2024 21:47	61302	EARL_T1	0	0	0	0	0	0	0.05	0.06	1	1	0	1200	1200	0
4/10/2024 21:47	45302	WBER_T2	27	60	33	0.19	0.22	0.03	0	0	0	0	0	0	0	0
4/10/2024 21:47	49804	UNIV_T1	2	0	-2	0.15	0	-0.15	0.57	0.41	0	0	0	0	0	0
4/10/2024 21:47	57303	MOAL_T2	1	1	0	6.8	7.3	0.5	0	0	0	0	0	0	0	0
4/10/2024 21:47	64303	LINC_T1	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
4/10/2024 21:47	57306	MOAL_T2	0	0	0	0	0	0	-1.93	-1.94	0	0	0	0	0	0
4/10/2024 21:47	63305	GREE_T1	0	0	0	0	0	0	-1.08	-1.02	0	0	0	0	0	0
4/10/2024 21:47	65601	QVIL_T2	0	9	9	0	0.11	0.11	0	0	0	0	0	0	0	0
4/10/2024 21:47	61303	EARL_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
4/10/2024 21:47	61103	BERK_T5	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/10/2024 21:47	63302	GREE_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
4/10/2024 21:47	66502	SMAN_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
4/10/2024 21:47	57304	MOAL_T2	31	16	-15	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
4/10/2024 21:47	45301	WBER_T2	48	72	24	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/10/2024 21:47	45303	WBER_T2	54	122	68	0.38	0.29	-0.09	-0.22	-0.22	0	0	0	0	0	0
4/10/2024 21:47	65604	QVIL_T2	0	1	1	0	0.1	0.1	0.24	0.23	0	0	0	0	0	0
4/10/2024 21:47	60701	BREC_T1	0	0	0	0	0	0	0.03	-0.02	0	0	0	0	0	0
4/10/2024 21:47	66505	SMAN_T2	2	2	0	0.1	0.35	0.25	0.08	0.14	2	2	0	1100	1100	0
4/10/2024 21:47	40101	HUNT_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
4/10/2024 21:47	66504	SMAN_T2	0	0	0	0	0	0	-0.51	-0.47	0	0	0	0	0	0
4/10/2024 21:47	41901	REED_T1	7	8	1	0.17	0.3	0.13	0	0	0	0	0	0	0	0
4/10/2024 21:47	65603	QVIL_T2	0	10	10	0	0.12	0.12	0	0	0	0	0	0	0	0
4/10/2024 21:47	60502	NMAN_T2	0	0	0	0	0	0	-0.43	-0.47	0	0	0	0	0	0
4/10/2024 21:47	67803	WLAN_T1	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
4/10/2024 21:47	41902	REED_T1	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
4/10/2024 21:47	61304	EARL_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:48	66505	SMAN_T2	2	2	0	0.1	0.35	0.25	0.08	0.14	2	2	0	1100	1100	0
4/10/2024 21:48	60502	NMAN_T2	0	0	0	0	0	0	-0.43	-0.47	0	0	0	0	0	0
4/10/2024 21:48	66703	STRA_T1	1	7	6	0.1	0.4	0.3	-0.37	-0.38	0	0	0	0	0	0
4/10/2024 21:48	42903	MIDD_T2	2	4	2	2.1	1.4	-0.7	0	0	0	0	0	0	0	0
4/10/2024 21:48	51603	DUKE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:48	42902	MIDD_T2	17	133	116	0.18	0.36	0.18	-0.48	-0.45	0	0	0	0	0	0
4/10/2024 21:48	42901	MIDD_T2	40	220	180	0.14	0.35	0.21	0	0	0	0	0	0	0	0
4/10/2024 21:48	63804	HEMP_T1	1	1	0	6	5.6	-0.4	0.91	-1.69	0	0	0	0	0	0
4/10/2024 21:48	60501	NMAN_T2	4	11	7	4.15	1.52	-2.63	0	0	0	0	0	0	0	0
4/10/2024 21:48	46203	DANV_T2	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
4/10/2024 21:48	45702	LIND_T2	1	1	0	1.1	1.2	0.1	-0.6	-0.64	0	0	0	0	0	0
4/10/2024 21:48	57401	SPAN_T1	2	2	0	0.5	0.55	0.05	-1.01	-1.04	1	1	0	600	600	0
4/10/2024 21:48	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:48	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
4/10/2024 21:49	67804	WLAN_T1	0	0	0	0	0	0	-1.06	-1.08	0	0	0	0	0	0
4/10/2024 21:49	52002	LING_T2	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
4/10/2024 21:49	61801	ELLI_T2	0	1	1	0	0	0	-1.03	-1.05	1	0	-1	600	0	-600
4/10/2024 21:49	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:49	52006	LING_T2	3	3	0	1.07	1.5	0.43	0	0	0	0	0	0	0	0
4/10/2024 21:49	42901	MIDD_T2	40	220	180	0.14	0.35	0.21	0	0	0	0	0	0	0	0
4/10/2024 21:49	42902	MIDD_T2	17	133	116	0.18	0.36	0.18	-0.48	-0.45	0	0	0	0	0	0
4/10/2024 21:49	42701	AUGU_T1	1	1	0	0.5	0.7	0.2	0	0	2	2	0	1800	1800	0
4/10/2024 21:49	67805	WLAN_T1	270	323	53	0.17	0.22	0.05	0	0	0	0	0	0	0	0
4/10/2024 21:49	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
4/10/2024 21:49	52004	LING_T2	1	1	0	0.2	0.6	0.4	0.1	0.1	0	0	0	0	0	0
4/10/2024 21:49	42903	MIDD_T2	2	4	2	2.1	1.4	-0.7	0	0	0	0	0	0	0	0
4/10/2024 21:49	67401	WAKE_T2	122	217	95	0.26	0.33	0.07	0	0	0	0	0	0	0	0
4/10/2024 21:49	46203	DANV_T2	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
4/10/2024 21:50	65205	PRIN_T1	1	1	0	1.5	2	0.5	0	0	0	0	0	0	0	0
4/10/2024 21:50	67703	WERN_T2	0	0	0	0	0	0	-0.34	-0.31	1	1	0	900	900	0
4/10/2024 21:50	45802	HEGI_T2	1	1	0	0.3	0	-0.3	1.21	1.37	0	0	0	0	0	0
4/10/2024 21:50	65202	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 21:50	66502	MOXO_T2	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
4/10/2024 21:50	40801	EXCH_T2	0	0	0	0	0	0	0.76	0.79	0	0	0	0	0	0
4/10/2024 21:51	53901	HALI_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
4/10/2024 21:51	57401	SPAN_T1	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
4/10/2024 21:51	53902	HALI_T2	1	1	0	5.6	5.9	0.3	-0.24	-0.27	0	0	0	0	0	0
4/10/2024 21:51	41301	FISH_T1	7	27	20	0.71	0.31	-0.4	-0.01	-0.07	0	0	0	0	0	0
4/10/2024 21:51	67201	TEHI_T1	28	0	-28	0.16	0	-0.16	-0.16	0.37	1	0	-1	600	0	-600
4/10/2024 21:51	40601	PIGR_T1	56	144	88	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/10/2024 21:51	40602	PIGR_T1	0	0	0	0	0	0	-0.7	-0.73	1	1	0	600	600	0
4/10/2024 21:51	57403	SPAN_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
4/10/2024 21:51	53903	HALI_T2	2	2	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:51	41305	FISH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/10/2024 21:51	61102	BERK_T5	0	0	0	0	0	0	0.59	0.54	1	1	0	300	300	0
4/10/2024 21:52	42701	AUGU_T1	1	1	0	0.5	0.7	0.2	0	0	2	2	0	1800	1800	0
4/10/2024 21:52	56601	HAMP_T1	0	0	0	0	0	0	-1.88	-1.93	0	0	0	0	0	0
4/10/2024 21:52	40101	HUNT_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
4/10/2024 21:52	64305	LINC_T1	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
4/10/2024 21:52	67805	WLAN_T1	270	323	53	0.17	0.22	0.05	-1.43	-1.39	0	0	0	0	0	0
4/10/2024 21:53	40601	PIGR_T1	56	144	88	0.15	0.2	0.05	-0.18	-0.21	0	0	0	0	0	0
4/10/2024 22:00	64702	LITI_T2	0	0	0	0	0	0	-0.6	-0.67	0	0	0	0	0	0
4/10/2024 22:04	67804	WLAN_T1	0	0	0	0	0	0	-1.08	-1.1	0	0	0	0	0	0
4/10/2024 22:04	67805	WLAN_T1	323	366	43	0.22	0.22	0	0	0	0	0	0	0	0	0
4/10/2024 22:18	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 22:46	67703	WERN_T2	0	0	0	0	0	0	-0.41	-0.41	1	1	0	900	900	0
4/10/2024 23:22	11201	ELHE_T2	0	0	0	0	0	0	-0.32	0	2	2	0	2400	2400	0
4/10/2024 23:34	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2024 23:56	64101	REFR_T1	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
4/11/2024 0:20	67002	STHI_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
4/11/2024 3:54	11205	ELHE_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
4/11/2024 4:15	52004	LING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 4:15	52002	LING_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/11/2024 4:15	52006	LING_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/11/2024 7:38	64702	LITI_T2	0	0	0	0	0	0	-0.63	-0.76	0	0	0	0	0	0
4/11/2024 8:22	56802	BENV_T2	125	93	-32	0.16	0.16	0	-1.42	-1.51	0	0	0	0	0	0
4/11/2024 8:31	51204	MTON_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	900	900	0
4/11/2024 8:34	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 8:48	66502	SMAN_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
4/11/2024 8:51	66502	SMAN_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
4/11/2024 8:52	66502	SMAN_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
4/11/2024 8:52	67802	WLAN_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
4/11/2024 8:53	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 8:53	66502	SMAN_T2	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
4/11/2024 8:53	61102	BERK_T5	0	0	0	0	0	0	0.68	0.63	1	1	0	300	300	0
4/11/2024 8:56	12006	HATF_T1	0	0	0	0	0	0	0.46	0.52	1	1	0	1200	1200	0
4/11/2024 8:59	63802	HEMP_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 8:59	63803	HEMP_T1	4	0	-4	0.1	0	-0.1	0.15	0.07	0	0	0	0	0	0
4/11/2024 8:59	63804	HEMP_T1	1	1	0	6.2	6.4	0.2	0	0	0	0	0	0	0	0
4/11/2024 9:01	58302	NOTT_T1	0	0	0	0	0	0	-0.43	-0.45	1	1	0	1200	1200	0
4/11/2024 9:02	42902	MIDD_T2	1	2	1	0.2	0.55	0.35	-0.38	-0.5	1	1	0	600	600	0
4/11/2024 9:05	60605	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 9:05	41901	REED_T1	6	7	1	0.15	0.16	0.01	0	0	0	0	0	0	0	0
4/11/2024 9:05	41902	REED_T1	0	0	0	0	0	0	1.05	1.03	0	0	0	0	0	0
4/11/2024 9:06	60605	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 9:09	66502	SMAN_T2	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
4/11/2024 9:11	41504	FAIR_T2	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
4/11/2024 9:11	15001	BLMO_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 9:18	44201	POIN_T1	0	0	0	0	0	0	-2.03	-1.35	2	2	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/11/2024 9:19	44201	POIN_T1	0	0	0	0	0	0	-2.03	-1.35	2	2	0	2100	2100	0
4/11/2024 9:24	67402	WAKE_T2	0	0	0	0	0	0	1.02	1.01	0	0	0	0	0	0
4/11/2024 9:26	60903	DONG_T2	0	0	0	0	0	0	1.1	0.97	2	2	0	1200	1200	0
4/11/2024 9:36	67501	WEWI_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/11/2024 9:36	67505	WEWI_T1	0	0	0	0	0	0	-0.24	-0.22	1	1	0	900	900	0
4/11/2024 9:36	66504	SMAN_T2	0	0	0	0	0	0	-1.02	-1.25	0	0	0	0	0	0
4/11/2024 9:38	67402	WAKE_T2	0	0	0	0	0	0	1.01	1.04	0	0	0	0	0	0
4/11/2024 9:39	67501	WEWI_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/11/2024 9:39	67505	WEWI_T1	0	0	0	0	0	0	-0.22	-0.23	1	1	0	900	900	0
4/11/2024 9:39	40505	CRES_T1	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
4/11/2024 9:40	40505	CRES_T1	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
4/11/2024 9:53	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 9:53	67703	WERN_T2	0	0	0	0	0	0	-0.35	-0.36	1	1	0	900	900	0
4/11/2024 9:54	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
4/11/2024 9:55	67402	WAKE_T2	0	0	0	0	0	0	1.04	1.02	0	0	0	0	0	0
4/11/2024 9:59	45702	LIND_T2	1	1	0	0.8	1.1	0.3	-0.45	-0.35	0	0	0	0	0	0
4/11/2024 10:00	67001	STHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 10:00	53901	HALI_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/11/2024 10:00	63804	HEMP_T1	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
4/11/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
4/11/2024 10:00	24105	EHAZ_T1	4	4	0	6.03	6.03	0	-0.7	-0.66	0	0	0	0	0	0
4/11/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.36	-0.19	0	0	0	0	0	0
4/11/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-0.44	-0.58	1	1	0	1200	1200	0
4/11/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0	0.02	1	1	0	600	600	0
4/11/2024 10:00	63801	HEMP_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
4/11/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.08	-0.11	1	1	0	600	600	0
4/11/2024 10:00	44502	HAMI_T2	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
4/11/2024 10:00	67605	WARW_T1	14	13	-1	0.67	0.64	-0.03	0	0	0	0	0	0	0	0
4/11/2024 10:00	59101	WALK_T2	42	0	-42	0.21	0	-0.21	0	0	0	0	0	0	0	0
4/11/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
4/11/2024 10:00	12502	MITR_T2	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
4/11/2024 10:00	42902	MIDD_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/11/2024 10:00	45501	DERR_T2	0	1	1	0	0.1	0.1	0.53	0.51	2	2	0	1800	1800	0
4/11/2024 10:00	67002	STHI_T2	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
4/11/2024 10:00	10801	CHHI_T1	0	0	0	0	0	0	-1.96	-1.87	2	2	0	1800	1800	0
4/11/2024 10:00	53903	HALI_T2	2	3	1	1.4	1.5	0.1	-0.21	-0.16	0	0	0	0	0	0
4/11/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.12	-0.13	2	2	0	1500	1500	0
4/11/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
4/11/2024 10:00	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
4/11/2024 10:00	48302	ORWI_T2	2	2	0	1.7	1.7	0	0.04	0.01	0	0	0	0	0	0
4/11/2024 10:00	44505	HAMI_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
4/11/2024 10:00	58003	WCAR_T1	1	1	0	0.7	0.4	-0.3	0.18	0.19	1	1	0	600	600	0
4/11/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.63	0	0	0	0	0	0
4/11/2024 10:00	42903	MIDD_T2	0	0	0	0	0	0	0.17	0.57	1	0	-1	1200	0	-1200
4/11/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
4/11/2024 10:00	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 10:00	46206	DANV_T2	0	0	0	0	0	0	1.91	1.9	1	1	0	1200	1200	0
4/11/2024 10:00	54001	SDLE_T1	5	5	0	0.6	0.44	-0.16	0	0	1	1	0	600	600	0
4/11/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
4/11/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-0.97	-0.95	1	1	0	600	600	0
4/11/2024 10:00	41902	REED_T1	0	0	0	0	0	0	2.13	2.07	0	0	0	0	0	0
4/11/2024 10:00	67505	WEWI_T1	0	0	0	0	0	0	-0.23	-0.2	1	1	0	900	900	0
4/11/2024 10:00	60803	BUCK_T1	12	6	-6	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
4/11/2024 10:00	58803	COCO_T1	1	1	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
4/11/2024 10:00	57104	SPHI_T2	1	1	0	6.6	0	-6.6	-0.13	-0.14	0	0	0	0	0	0
4/11/2024 10:00	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
4/11/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	2.08	2.04	0	0	0	0	0	0
4/11/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
4/11/2024 10:00	65003	NEFF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 10:00	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 10:00	57101	SPHI_T2	6	6	0	1.28	1.05	-0.23	0	0	0	0	0	0	0	0
4/11/2024 10:00	15103	UPHA_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
4/11/2024 10:00	67501	WEWI_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/11/2024 10:00	11801	FRAN_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
4/11/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.83	0.78	0	0	0	0	0	0
4/11/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	-0.29	-0.22	0	0	0	0	0	0
4/11/2024 10:00	42301	MOWR_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
4/11/2024 10:00	58001	WCAR_T1	4	3	-1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
4/11/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
4/11/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
4/11/2024 10:00	24102	EHAZ_T1	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
4/11/2024 10:00	56501	ROCK_T2	2	2	0	0.5	0.4	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/11/2024 10:00	41901	REED_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/11/2024 10:00	12505	MITR_T2	0	0	0	0	0	0	1.17	1.34	0	0	0	0	0	0
4/11/2024 10:00	57106	SPHI_T2	3	3	0	1.33	1.27	-0.06	0	0	0	0	0	0	0	0
4/11/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.78	0.81	0	0	0	0	0	0
4/11/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	0.08	0.03	1	1	0	1200	1200	0
4/11/2024 10:03	58102	NEKI_T1	1	1	0	1.7	1.5	-0.2	-0.81	-0.9	1	1	0	1200	1200	0
4/11/2024 10:06	45602	WOOL_T1	0	2	2	0	0.45	0.45	0.43	0.44	0	0	0	0	0	0
4/11/2024 10:06	25603	ARRO_T1	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
4/11/2024 10:07	45602	WOOL_T1	0	2	2	0	0.45	0.45	0.43	0.44	0	0	0	0	0	0
4/11/2024 10:07	60502	NMAN_T2	0	0	0	0	0	0	-0.21	-0.06	0	0	0	0	0	0
4/11/2024 10:07	65702	RVIL_T2	0	0	0	0	0	0	-0.54	-0.48	0	0	0	0	0	0
4/11/2024 10:07	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.42	0	0	0	0	0	0
4/11/2024 10:07	52001	LING_T1	0	0	0	0	0	0	0.08	0.12	0	0	0	0	0	0
4/11/2024 10:07	60501	NMAN_T2	3	3	0	5.03	4.97	-0.06	0	0	0	0	0	0	0	0
4/11/2024 10:08	51002	NHAR_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/11/2024 10:08	47104	MARL_T1	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
4/11/2024 10:08	50501	MECH_T1	4	4	0	0.78	0.65	-0.13	0	0	0	0	0	0	0	0
4/11/2024 10:08	60701	BREC_T1	0	0	0	0	0	0	-0.07	-0.24	1	1	0	600	600	0
4/11/2024 10:08	16102	BING_T2	0	0	0	0	0	0	-0.23	-0.32	1	1	0	1200	1200	0
4/11/2024 10:08	50502	MECH_T1	1	1	0	2.4	2.2	-0.2	0	0	0	0	0	0	0	0
4/11/2024 10:08	50505	MECH_T1	0	0	0	0	0	0	-0.77	-0.8	0	0	0	0	0	0
4/11/2024 10:08	64305	LINC_T1	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
4/11/2024 10:08	45902	AUBU_T1	0	0	0	0	0	0	-0.56	-0.55	1	1	0	600	600	0
4/11/2024 10:08	51004	NHAR_T1	13	13	0	0.88	0.87	-0.01	0	0	0	0	0	0	0	0
4/11/2024 10:08	63306	GREE_T1	0	0	0	0	0	0	-1.47	-1.46	1	1	0	900	900	0
4/11/2024 10:08	44301	BEAV_T2	1	1	0	1	1	0	0.97	0.92	2	2	0	1500	1500	0
4/11/2024 10:08	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/11/2024 10:08	60101	COCA_T1	0	0	0	0.2	0	0	0.19	0.22	0	0	0	0	0	0
4/11/2024 10:08	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 10:15	45702	LIND_T2	1	1	0	1.1	1	-0.1	-0.35	-0.46	0	0	0	0	0	0
4/11/2024 10:16	64802	MONE_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
4/11/2024 10:16	64801	MONE_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
4/11/2024 10:16	40601	PIGR_T1	65	115	50	0.15	0.19	0.04	0.13	0.13	0	0	0	0	0	0
4/11/2024 10:16	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 10:17	65001	NEFF_T2	0	0	0	0	0	0	-0.58	-0.39	1	1	0	1200	1200	0
4/11/2024 10:17	65002	NEFF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 10:18	17002	RIRO_T2	0	1	1	0	0.2	0.2	0.64	0.59	0	0	0	0	0	0
4/11/2024 10:20	46301	ROHR_T1	86	110	24	0.19	0.23	0.04	0.34	0.34	0	0	0	0	0	0
4/11/2024 10:20	46302	ROHR_T1	5	6	1	1.84	1.65	-0.19	0	0	0	0	0	0	0	0
4/11/2024 10:22	43304	WATS_T2	0	0	0	0	0	0	-0.42	-0.45	0	0	0	0	0	0
4/11/2024 10:22	43302	WATS_T2	4	4	0	0.25	0.38	0.13	0	0	0	0	0	0	0	0
4/11/2024 10:22	43301	WATS_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/11/2024 10:23	16301	ALPA_T1	1	1	0	0.2	0.1	-0.1	-0.44	-0.45	0	0	0	0	0	0
4/11/2024 10:24	60802	BUCK_T2	0	0	0	0	0	0	0.18	0.22	0	0	0	0	0	0
4/11/2024 10:28	28604	BLYT_T2	0	0	0	0	0	0	-1.6	-1.6	0	0	0	0	0	0
4/11/2024 10:30	63804	HEMP_T1	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
4/11/2024 10:30	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.24	0	0	0	0	0	0
4/11/2024 10:36	59101	WALK_T2	0	34	34	0	0.18	0.18	0.33	0.38	0	0	0	0	0	0
4/11/2024 10:37	67605	WARW_T1	13	14	1	0.58	0.61	0.03	-1.18	-1.18	0	0	0	0	0	0
4/11/2024 10:38	59101	WALK_T2	0	34	34	0	0.18	0.18	0.38	0.37	0	0	0	0	0	0
4/11/2024 10:40	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/11/2024 10:45	45702	LIND_T2	1	2	1	1	1.1	0.1	-0.47	-0.37	0	0	0	0	0	0
4/11/2024 10:45	66303	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 10:45	66302	MCGO_T2	1	326	325	0.4	0.21	-0.19	-3.08	-2.96	2	2	0	1200	1200	0
4/11/2024 10:46	66303	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 10:46	66302	MCGO_T2	1	326	325	0.4	0.21	-0.19	-1.54	-1.48	1	1	0	600	600	0
4/11/2024 10:50	40601	PIGR_T1	59	68	9	0.15	0.16	0.01	0.12	0.23	0	0	0	0	0	0
4/11/2024 10:50	60502	NMAN_T2	0	0	0	0	0	0	-0.23	-0.11	0	0	0	0	0	0
4/11/2024 10:50	40602	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 10:50	40603	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/11/2024 10:50	60501	NMAN_T2	3	3	0	4.83	5	0.17	0	0	0	0	0	0	0	0
4/11/2024 10:51	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 10:52	23001	SAJO_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
4/11/2024 10:52	66503	SMAN_T2	0	0	0	0	0	0	0.35	0.38	0	0	0	0	0	0
4/11/2024 10:53	67703	WERN_T2	0	0	0	0	0	0	-0.33	-0.31	1	1	0	900	900	0
4/11/2024 10:54	45602	WOOL_T1	2	2	0	0.45	0.55	0.1	0.43	0.42	0	0	0	0	0	0
4/11/2024 10:54	43804	UNIV_T1	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
4/11/2024 10:55	45602	WOOL_T1	2	2	0	0.45	0.55	0.1	0.43	0.42	0	0	0	0	0	0
4/11/2024 10:59	47103	MARL_T2	0	0	0	0	0	0	-0.59	-0.63	0	0	0	0	0	0
4/11/2024 11:01	58402	MORO_T1	0	0	0	0	0	0	-0.17	-0.3	2	2	0	1500	1500	0
4/11/2024 11:02	51101	CARL_T1	0	0	0	0	0	0	-1.19	-1.13	1	1	0	600	600	0
4/11/2024 11:02	47103	MARL_T2	0	0	0	0	0	0	-0.59	-0.63	0	0	0	0	0	0
4/11/2024 11:02	45702	LIND_T2	1	1	0	0.9	2	1.1	-0.37	-0.49	0	0	0	0	0	0
4/11/2024 11:03	47104	MARL_T1	0	0	0	0	0	0	0.38	0.42	0	0	0	0	0	0
4/11/2024 11:03	47101	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 11:04	57403	SPAN_T1	9	110	101	0.2	0.2	0	-0.13	-0.09	0	0	0	0	0	0
4/11/2024 11:04	57401	SPAN_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
4/11/2024 11:05	58402	MORO_T1	0	0	0	0	0	0	-0.17	-0.3	2	2	0	1500	1500	0
4/11/2024 11:07	16301	ALPA_T1	0	1	1	0	0.2	0.2	-0.45	-0.45	0	0	0	0	0	0
4/11/2024 11:07	67605	WARW_T1	14	23	9	0.61	0.55	-0.06	-1.19	-1.17	0	0	0	0	0	0
4/11/2024 11:09	43304	WATS_T2	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
4/11/2024 11:09	67505	WEWI_T1	0	0	0	0	0	0	-0.18	-0.07	1	1	0	900	900	0
4/11/2024 11:09	43302	WATS_T2	4	3	-1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
4/11/2024 11:10	24902	WHHA_T1	1	20	19	0.7	1.26	0.56	0	0	0	0	0	0	0	0
4/11/2024 11:11	10801	CHHI_T1	0	0	0	0	0	0	-0.94	-0.97	1	1	0	900	900	0
4/11/2024 11:12	67605	WARW_T1	14	23	9	0.61	0.55	-0.06	-1.17	-1.18	0	0	0	0	0	0
4/11/2024 11:15	52006	LING_T2	2	3	1	0.3	0.63	0.33	0	0	0	0	0	0	0	0
4/11/2024 11:15	52004	LING_T2	0	1	1	0	0.2	0.2	0.29	0.3	0	0	0	0	0	0
4/11/2024 11:15	52002	LING_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/11/2024 11:17	52006	LING_T2	2	3	1	0.3	0.63	0.33	0	0	0	0	0	0	0	0
4/11/2024 11:17	52002	LING_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/11/2024 11:17	52004	LING_T2	0	1	1	0	0.2	0.2	0.29	0.3	0	0	0	0	0	0
4/11/2024 11:25	67401	WAKE_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
4/11/2024 11:25	67402	WAKE_T2	0	0	0	0	0	0	1.06	1.05	0	0	0	0	0	0
4/11/2024 11:26	44301	BEAV_T2	0	6	6	0	0.47	0.47	0.47	0.52	2	2	0	1500	1500	0
4/11/2024 11:26	24902	WHHA_T1	8	20	12	1.28	0.93	-0.35	0	0	0	0	0	0	0	0
4/11/2024 11:26	44302	BEAV_T2	0	7	7	0	0.41	0.41	0	0	0	0	0	0	0	0
4/11/2024 11:26	41502	FAIR_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
4/11/2024 11:33	64801	MONE_T2	1	4	3	1	0.4	-0.6	0.24	0.25	0	0	0	0	0	0
4/11/2024 11:33	64802	MONE_T2	2	112	110	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/11/2024 11:34	65503	MOJO_T2	0	0	0	0	0	0	-1	-0.97	1	1	0	900	900	0
4/11/2024 11:36	66502	SMAN_T2	0	0	0	0	0	0	0.14	0.29	0	0	0	0	0	0
4/11/2024 11:37	66502	SMAN_T2	0	0	0	0	0	0	0.14	0.29	0	0	0	0	0	0
4/11/2024 11:37	67605	WARW_T1	23	28	5	0.55	0.56	0.01	-1.18	-1.14	0	0	0	0	0	0
4/11/2024 11:38	64801	MONE_T2	1	4	3	1	0.4	-0.6	0.25	0.27	0	0	0	0	0	0
4/11/2024 11:38	64802	MONE_T2	2	112	110	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/11/2024 11:38	67604	WARW_T1	0	0	0	0	0	0	0.91	0.73	0	0	0	0	0	0
4/11/2024 11:38	67605	WARW_T1	23	28	5	0.55	0.56	0.01	0	0	0	0	0	0	0	0
4/11/2024 11:38	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 11:40	51003	NHAR_T1	0	0	0	0	0	0	-3.1	-3.1	1	1	0	1200	1200	0
4/11/2024 11:40	51002	NHAR_T1	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
4/11/2024 11:40	51004	NHAR_T1	7	11	4	1.13	0.87	-0.26	0	0	0	0	0	0	0	0
4/11/2024 11:41	51603	DUKE_T1	2	2	0	0.45	0.75	0.3	0	0	0	0	0	0	0	0
4/11/2024 11:42	67605	WARW_T1	23	28	5	0.55	0.56	0.01	-1.14	-1.15	0	0	0	0	0	0
4/11/2024 11:42	56602	HAMP_T2	2	2	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
4/11/2024 11:42	62601	ENGL_T1	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
4/11/2024 11:42	56604	HAMP_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
4/11/2024 11:43	28403	HART_T2	0	0	0	0	0	0	-1.04	-1.09	1	1	0	900	900	0
4/11/2024 11:44	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
4/11/2024 11:45	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
4/11/2024 11:45	53903	HALI_T2	2	3	1	1.3	1.4	0.1	0	0	0	0	0	0	0	0
4/11/2024 11:45	53901	HALI_T2	1	1	0	0.5	0.7	0.2	-0.98	-1.03	0	0	0	0	0	0
4/11/2024 11:47	47402	PENS_T1	2	1	-1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
4/11/2024 11:47	47401	PENS_T1	2	2	0	0.35	0.2	-0.15	1	0.87	0	0	0	0	0	0
4/11/2024 11:51	47402	PENS_T1	2	1	-1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
4/11/2024 11:51	47401	PENS_T1	2	2	0	0.35	0.2	-0.15	1	0.87	0	0	0	0	0	0
4/11/2024 11:51	42701	AUGU_T1	1	2	1	1.1	0.65	-0.45	0	0	2	2	0	1800	1800	0
4/11/2024 11:52	42701	AUGU_T1	1	2	1	1.1	0.65	-0.45	0	0	2	2	0	1800	1800	0
4/11/2024 11:54	41601	CLEV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/11/2024 11:54	45901	AUBU_T1	0	0	0	0	0	0	1.74	1.77	0	0	0	0	0	0
4/11/2024 11:55	20401	ASHF_T2	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
4/11/2024 11:55	20403	ASHF_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 11:55	42701	AUGU_T1	1	2	1	1.1	0.65	-0.45	0	0	2	2	0	1800	1800	0
4/11/2024 11:56	41601	CLEV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/11/2024 11:56	51002	NHAR_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
4/11/2024 11:56	51003	NHAR_T1	0	0	0	0	0	0	-3.1	-3.03	1	1	0	1200	1200	0
4/11/2024 11:56	51004	NHAR_T1	10	13	3	0.93	0.9	-0.03	0	0	0	0	0	0	0	0
4/11/2024 11:57	60801	BUCK_T1	8	37	29	0.11	0.2	0.09	-0.03	-0.01	0	0	0	0	0	0
4/11/2024 11:57	40101	HUNT_T2	1	1	0	0.2	0.3	0.1	-0.22	-0.22	0	0	0	0	0	0
4/11/2024 11:57	60803	BUCK_T1	13	15	2	0.22	0.38	0.16	0	0	0	0	0	0	0	0
4/11/2024 11:59	64702	LITI_T2	0	0	0	0	0	0	-1.21	-1.23	0	0	0	0	0	0
4/11/2024 11:59	50502	MECH_T1	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
4/11/2024 11:59	50501	MECH_T1	4	4	0	1.25	1.65	0.4	-0.7	-0.79	0	0	0	0	0	0
4/11/2024 11:59	42903	MIDD_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
4/11/2024 11:59	42902	MIDD_T2	17	4	-13	0.39	0.58	0.19	-0.34	0.18	1	0	-1	600	0	-600
4/11/2024 12:01	42903	MIDD_T2	2	2	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
4/11/2024 12:01	42902	MIDD_T2	4	6	2	0.55	0.53	-0.02	-0.34	0.18	1	0	-1	600	0	-600
4/11/2024 12:02	52002	LING_T2	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
4/11/2024 12:02	52004	LING_T2	1	6	5	0.5	0.38	-0.12	0.31	0.32	0	0	0	0	0	0
4/11/2024 12:02	52006	LING_T2	3	3	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/11/2024 12:03	64702	LITI_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
4/11/2024 12:03	65901	SAKR_T2	1	1	0	9.6	9.6	0	-1.26	-0.87	1	1	0	900	900	0
4/11/2024 12:03	42902	MIDD_T2	4	6	2	0.55	0.53	-0.02	-0.34	0.18	1	0	-1	600	0	-600
4/11/2024 12:03	42903	MIDD_T2	2	2	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
4/11/2024 12:04	66901	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 12:04	66903	SHIL_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/11/2024 12:04	64101	REFR_T1	0	0	0	0	0	0	-1.55	-1.47	0	0	0	0	0	0
4/11/2024 12:04	66902	SHIL_T2	0	0	0	0	0	0	-0.78	-0.76	0	0	0	0	0	0
4/11/2024 12:05	66901	SHIL_T2	0	1	1	0	0.1	0.1	-0.25	-0.23	0	0	0	0	0	0
4/11/2024 12:05	66903	SHIL_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/11/2024 12:06	66902	SHIL_T2	0	0	0	0	0	0	-0.78	-0.76	0	0	0	0	0	0
4/11/2024 12:06	41901	REED_T1	0	1	1	0	0.1	0.1	-1.41	-1.49	1	1	0	900	900	0
4/11/2024 12:06	66903	SHIL_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/11/2024 12:06	67702	WERN_T2	0	1	1	0	0.3	0.3	-0.22	-0.2	0	0	0	0	0	0
4/11/2024 12:06	66901	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 12:07	15104	UPHA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 12:07	45402	WBLO_T2	2	2	0	1	0.95	-0.05	-0.89	-0.83	0	0	0	0	0	0
4/11/2024 12:07	15103	UPHA_T2	0	2	2	0	0.4	0.4	0.37	0.36	0	0	0	0	0	0
4/11/2024 12:07	40201	BEGA_T2	0	3	3	0	0.67	0.67	0	0	0	0	0	0	0	0
4/11/2024 12:07	14502	SCHO_T1	0	1	1	0	0.4	0.4	0.2	0.25	0	0	0	0	0	0
4/11/2024 12:07	67603	WARW_T1	0	1	1	0	0.3	0.3	-0.02	-0.05	0	0	0	0	0	0
4/11/2024 12:07	67605	WARW_T1	25	40	15	0.51	0.58	0.07	-1.15	-1.08	0	0	0	0	0	0
4/11/2024 12:08	45902	AUBU_T1	0	0	0	0	0	0	-0.71	-0.62	1	1	0	600	600	0
4/11/2024 12:08	66903	SHIL_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/11/2024 12:08	66902	SHIL_T2	0	0	0	0	0	0	-0.76	-0.77	0	0	0	0	0	0
4/11/2024 12:08	67702	WERN_T2	0	1	1	0	0.3	0.3	-0.2	-0.2	0	0	0	0	0	0
4/11/2024 12:08	40201	BEGA_T2	0	3	3	0	0.67	0.67	0	0	0	0	0	0	0	0
4/11/2024 12:08	66901	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 12:09	40201	BEGA_T2	0	3	3	0	0.67	0.67	0	0	0	0	0	0	0	0
4/11/2024 12:09	51109	CARL_T1	0	0	0	0	0	0	-1.01	-1	1	1	0	1200	1200	0
4/11/2024 12:09	51102	CARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/11/2024 12:09	22003	BOHE_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/11/2024 12:09	22001	BOHE_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
4/11/2024 12:09	45902	AUBU_T1	0	0	0	0	0	0	-0.71	-0.62	1	1	0	600	600	0
4/11/2024 12:09	51108	CARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/11/2024 12:09	67702	WERN_T2	0	1	1	0	0.3	0.3	-0.1	-0.1	0	0	0	0	0	0
4/11/2024 12:09	51505	SWAT_T2	0	0	0	0	0	0	1	1.08	0	0	0	0	0	0
4/11/2024 12:10	67702	WERN_T2	0	1	1	0	0.3	0.3	-0.1	-0.1	0	0	0	0	0	0
4/11/2024 12:10	41301	FISH_T1	2	3	1	2	2.2	0.2	-0.09	-0.08	0	0	0	0	0	0
4/11/2024 12:11	41301	FISH_T1	2	3	1	2	2.2	0.2	-0.09	-0.08	0	0	0	0	0	0
4/11/2024 12:12	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/11/2024 12:12	67605	WARW_T1	25	40	15	0.51	0.58	0.07	-1.08	-1.12	0	0	0	0	0	0
4/11/2024 12:13	51603	DUKE_T1	2	2	0	0.7	0.95	0.25	-0.49	-0.48	0	0	0	0	0	0
4/11/2024 12:14	45702	LIND_T2	10	8	-2	0.32	0.4	0.08	-0.57	-0.6	0	0	0	0	0	0
4/11/2024 12:14	45902	AUBU_T1	0	0	0	0	0	0	-0.71	-0.62	1	1	0	600	600	0
4/11/2024 12:15	45701	LIND_T2	0	0	0	0	0	0	-1	-1.04	0	0	0	0	0	0
4/11/2024 12:15	45702	LIND_T2	8	1	-7	0.4	2	1.6	0	0	0	0	0	0	0	0
4/11/2024 12:18	65205	PRIN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/11/2024 12:18	59003	MIFF_T1	0	0	0	0	0	0	-0.17	-0.14	0	0	0	0	0	0
4/11/2024 12:20	45402	WBLO_T2	2	3	1	0.95	0.7	-0.25	-0.83	-0.74	0	0	0	0	0	0
4/11/2024 12:22	49804	UNIV_T1	2	1	-1	0.2	0.2	0	0.48	0.48	0	0	0	0	0	0
4/11/2024 12:22	49803	UNIV_T1	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
4/11/2024 12:23	66703	STRA_T1	0	0	0	0	0	0	-0.04	0.05	0	0	0	0	0	0
4/11/2024 12:23	66701	STRA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/11/2024 12:24	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 12:24	53601	DALM_T2	1	1	0	1.4	1.1	-0.3	-0.09	-0.16	0	0	0	0	0	0
4/11/2024 12:24	45402	WBLO_T2	2	3	1	0.95	0.7	-0.25	-0.74	-0.74	0	0	0	0	0	0
4/11/2024 12:24	41601	CLEV_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/11/2024 12:25	57002	WHHI_T2	0	0	0	0	0	0	-1.29	-1.29	1	1	0	1200	1200	0
4/11/2024 12:26	67603	WARW_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/11/2024 12:26	10805	CHHI_T2	1	9	8	8.8	9	0.2	-0.41	-0.46	1	1	0	600	600	0
4/11/2024 12:26	67605	WARW_T1	34	35	1	0.61	0.6	-0.01	-1.12	-1.15	0	0	0	0	0	0
4/11/2024 12:27	67605	WARW_T1	34	35	1	0.61	0.6	-0.01	-1.12	-1.15	0	0	0	0	0	0
4/11/2024 12:27	67605	WARW_T1	34	35	1	0.61	0.6	-0.01	-1.12	-1.15	0	0	0	0	0	0
4/11/2024 12:27	67605	WARW_T1	34	35	1	0.61	0.6	-0.01	-1.12	-1.15	0	0	0	0	0	0
4/11/2024 12:27	67603	WARW_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/11/2024 12:31	13904	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 12:31	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 12:32	63602	LETO_T1	46	6	-40	0.12	0.37	0.25	-0.34	-0.28	0	0	0	0	0	0
4/11/2024 12:32	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/11/2024 12:32	63601	LETO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/11/2024 12:32	67605	WARW_T1	35	25	-10	0.6	0.62	0.02	-1.12	-1.15	0	0	0	0	0	0
4/11/2024 12:34	52502	PROG_T2	2	0	-2	0.3	0	-0.3	-1.46	-1.45	2	2	0	1800	1800	0
4/11/2024 12:38	43301	WATS_T2	0	0	0	0	0	0	-0.82	-0.79	1	1	0	900	900	0
4/11/2024 12:38	43302	WATS_T2	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0	0
4/11/2024 12:39	64101	REFR_T1	0	0	0	0	0	0	-0.74	-0.7	0	0	0	0	0	0
4/11/2024 12:40	51108	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 12:40	51102	CARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/11/2024 12:40	51101	CARL_T1	0	0	0	0	0	0	-1.05	-1.07	1	1	0	600	600	0
4/11/2024 12:44	52006	LING_T2	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/11/2024 12:44	52004	LING_T2	6	3	-3	0.38	0.4	0.02	0.35	0.31	0	0	0	0	0	0
4/11/2024 12:44	52002	LING_T2	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
4/11/2024 12:47	65503	MOJO_T2	2	2	0	0.1	0.85	0.75	-1.05	-0.95	1	1	0	900	900	0
4/11/2024 12:48	55003	NEWP_T2	13	13	0	0.47	0.53	0.06	-0.08	-0.08	0	0	0	0	0	0
4/11/2024 12:48	65201	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 12:50	49804	UNIV_T1	0	8	8	0	0.23	0.23	0.53	0.61	0	0	0	0	0	0
4/11/2024 12:50	66703	STRA_T1	0	0	0	0	0	0	0.05	-0.07	0	0	0	0	0	0
4/11/2024 12:50	66701	STRA_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/11/2024 12:51	67501	WEWI_T1	2	2	0	0.3	0.45	0.15	-1.12	-1.02	1	1	0	600	600	0
4/11/2024 12:51	67201	TEHI_T1	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
4/11/2024 12:51	67505	WEWI_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/11/2024 12:51	66701	STRA_T1	1	1	0	0.2	0.4	0.2	-0.32	-0.21	1	1	0	600	600	0
4/11/2024 12:51	67203	TEHI_T1	0	0	0	0	0	0	2.38	2.49	2	2	0	1200	1200	0
4/11/2024 12:53	14802	TREI_T2	0	11	11	0	0.17	0.17	0.25	0.3	0	0	0	0	0	0
4/11/2024 12:53	14801	TREI_T2	0	70	70	0	0.17	0.17	0	0	0	0	0	0	0	0
4/11/2024 12:53	10801	CHHI_T1	0	3	3	0	0.33	0.33	-0.95	-0.79	1	1	0	900	900	0
4/11/2024 12:54	14801	TREI_T2	0	70	70	0	0.17	0.17	0.29	0.27	0	0	0	0	0	0
4/11/2024 12:54	10801	CHHI_T1	0	3	3	0	0.33	0.33	-0.95	-0.79	1	1	0	900	900	0
4/11/2024 12:54	20403	ASHF_T2	0	7	7	0	0.23	0.23	-0.05	0.94	0	0	0	0	0	0
4/11/2024 12:54	57002	WHHI_T2	0	0	0	0	0	0	-1.28	-1.3	1	1	0	1200	1200	0
4/11/2024 12:54	14802	TREI_T2	0	11	11	0	0.17	0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/11/2024 12:55	67501	WEWI_T1	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/11/2024 12:55	67504	WEWI_T1	0	0	0	0	0	0	0.89	0.85	0	0	0	0	0	0
4/11/2024 12:55	67505	WEWI_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/11/2024 12:56	41504	FAIR_T2	0	0	0	0	0	0	-1	0.39	0	0	0	0	0	0
4/11/2024 12:56	41502	FAIR_T2	0	0	0	0	0	0	-1.4	-1.36	0	0	0	0	0	0
4/11/2024 12:56	20403	ASHF_T2	0	7	7	0	0.23	0.23	-0.05	0.94	0	0	0	0	0	0
4/11/2024 12:57	67605	WARW_T1	24	23	-1	0.6	0.63	0.03	-1.13	-1.12	0	0	0	0	0	0
4/11/2024 12:57	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/11/2024 12:58	46002	BERW_T2	0	0	0	0	0	0	-0.67	-0.7	1	1	0	900	900	0
4/11/2024 12:59	42401	GIMA_T1	0	37	37	0	0.2	0.2	0	0	0	0	0	0	0	0
4/11/2024 13:01	65503	MOJO_T2	2	0	-2	0.85	0	-0.85	0	0	0	0	0	0	0	0
4/11/2024 13:01	65502	MOJO_T2	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
4/11/2024 13:01	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 13:01	40601	PIGR_T1	134	146	12	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/11/2024 13:01	40602	PIGR_T1	0	0	0	0	0	0	-0.03	0.05	2	2	0	1200	1200	0
4/11/2024 13:02	40603	PIGR_T1	0	1	1	0	0.1	0.1	-0.85	0.16	1	0	-1	900	0	-900
4/11/2024 13:02	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/11/2024 13:02	40601	PIGR_T1	134	146	12	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/11/2024 13:02	67605	WARW_T1	23	24	1	0.63	0.62	-0.01	-1.13	-1.12	0	0	0	0	0	0
4/11/2024 13:03	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 13:04	40602	PIGR_T1	0	0	0	0	0	0	-0.01	0.02	1	1	0	600	600	0
4/11/2024 13:04	40601	PIGR_T1	134	146	12	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/11/2024 13:04	66703	STRA_T1	0	0	0	0	0	0	-0.07	0.01	0	0	0	0	0	0
4/11/2024 13:04	66701	STRA_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/11/2024 13:04	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 13:05	51503	SWAT_T1	2	2	0	0.8	1	0.2	-0.63	-0.65	0	0	0	0	0	0
4/11/2024 13:06	66701	STRA_T1	1	1	0	0.4	0.3	-0.1	-0.42	-0.55	2	2	0	1200	1200	0
4/11/2024 13:06	42802	SELI_T1	0	0	0	0	0	0	-0.65	-0.67	1	1	0	900	900	0
4/11/2024 13:07	42701	AUGU_T1	2	0	-2	1	0	-1	0	0	2	1	-1	1800	600	-1200
4/11/2024 13:09	67503	WEWI_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
4/11/2024 13:09	67401	WAKE_T2	9	13	4	0.13	0.43	0.3	-1.05	-1.07	0	0	0	0	0	0
4/11/2024 13:09	67502	WEWI_T2	2	2	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
4/11/2024 13:09	42701	AUGU_T1	2	0	-2	1	0	-1	0	0	2	1	-1	1800	600	-1200
4/11/2024 13:10	64101	REFR_T1	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
4/11/2024 13:10	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/11/2024 13:10	67605	WARW_T1	23	24	1	0.63	0.62	-0.01	-1.12	-1.12	0	0	0	0	0	0
4/11/2024 13:11	67604	WARW_T1	0	0	0	0	0	0	0.76	0.77	0	0	0	0	0	0
4/11/2024 13:11	67505	WEWI_T1	1	1	0	0.5	0.5	0	-0.01	-0.05	1	1	0	900	900	0
4/11/2024 13:11	67605	WARW_T1	23	24	1	0.63	0.62	-0.01	0	0	0	0	0	0	0	0
4/11/2024 13:11	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/11/2024 13:11	67501	WEWI_T1	2	1	-1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
4/11/2024 13:12	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/11/2024 13:12	67605	WARW_T1	23	24	1	0.63	0.62	-0.01	-1.12	-1.12	0	0	0	0	0	0
4/11/2024 13:12	42701	AUGU_T1	2	0	-2	1	0	-1	0	0	1	1	0	600	600	0
4/11/2024 13:14	12602	MACA_T1	0	1	1	0	0.6	0.6	-1.31	-1.35	0	0	0	0	0	0
4/11/2024 13:14	12604	MACA_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
4/11/2024 13:14	12601	MACA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/11/2024 13:14	12605	MACA_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/11/2024 13:15	12602	MACA_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/11/2024 13:15	12605	MACA_T1	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/11/2024 13:15	12604	MACA_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
4/11/2024 13:15	12601	MACA_T1	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/11/2024 13:15	12606	MACA_T1	0	0	0	0	0	0	0.71	0.79	0	0	0	0	0	0
4/11/2024 13:17	67605	WARW_T1	20	24	4	0.61	0.62	0.01	-1.12	-1.12	0	0	0	0	0	0
4/11/2024 13:19	40601	PIGR_T1	133	150	17	0.23	0.37	0.14	0	0	0	0	0	0	0	0
4/11/2024 13:19	40602	PIGR_T1	0	0	0	0	0	0	0.02	0.02	1	1	0	600	600	0
4/11/2024 13:19	47401	PENS_T1	2	12	10	0.4	0.46	0.06	1.95	2.32	0	0	0	0	0	0
4/11/2024 13:19	47403	PENS_T1	1	1	0	1.9	2.5	0.6	0	0	0	0	0	0	0	0
4/11/2024 13:19	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 13:19	14802	TREI_T2	11	27	16	0.17	0.2	0.03	0.3	0.32	0	0	0	0	0	0
4/11/2024 13:19	47402	PENS_T1	0	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0
4/11/2024 13:19	14801	TREI_T2	70	121	51	0.17	0.21	0.04	0	0	0	0	0	0	0	0
4/11/2024 13:20	43301	WATS_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
4/11/2024 13:20	64801	MONE_T2	5	3	-2	0.3	0.37	0.07	0	0	0	0	0	0	0	0
4/11/2024 13:20	47402	PENS_T1	0	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0
4/11/2024 13:20	43302	WATS_T2	0	4	4	0	0.6	0.6	0	0	0	0	0	0	0	0
4/11/2024 13:20	14502	SCHO_T1	1	1	0	1	0.2	-0.8	0.26	0.26	0	0	0	0	0	0
4/11/2024 13:20	47403	PENS_T1	1	1	0	1.9	2.5	0.6	0	0	0	0	0	0	0	0
4/11/2024 13:20	64802	MONE_T2	51	259	208	0.24	0.18	-0.06	0.16	0.13	0	0	0	0	0	0
4/11/2024 13:20	47401	PENS_T1	2	12	10	0.4	0.46	0.06	0.98	1.16	0	0	0	0	0	0
4/11/2024 13:21	40303	TAMA_T3	3	2	-1	0.63	0.9	0.27	0	0	0	0	0	0	0	0
4/11/2024 13:21	47402	PENS_T1	0	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0
4/11/2024 13:21	47403	PENS_T1	1	1	0	1.9	2.5	0.6	0	0	0	0	0	0	0	0
4/11/2024 13:21	47401	PENS_T1	2	12	10	0.4	0.46	0.06	0.98	1.16	0	0	0	0	0	0
4/11/2024 13:21	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 13:21	40302	TAMA_T3	36	52	16	0.56	0.45	-0.11	0.3	0.28	0	0	0	0	0	0
4/11/2024 13:21	14502	SCHO_T1	1	1	0	1	0.2	-0.8	0.26	0.26	0	0	0	0	0	0
4/11/2024 13:22	47402	PENS_T1	0	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0
4/11/2024 13:22	47403	PENS_T1	1	1	0	1.9	2.5	0.6	0	0	0	0	0	0	0	0
4/11/2024 13:22	47401	PENS_T1	2	12	10	0.4	0.46	0.06	0.98	1.16	0	0	0	0	0	0
4/11/2024 13:22	45902	AUBU_T1	0	2	2	0	0.1	0.1	-1.18	-1.17	2	2	0	1200	1200	0
4/11/2024 13:23	15001	BLMO_T1	3	5	2	0.47	0.54	0.07	0	0	0	0	0	0	0	0
4/11/2024 13:24	15001	BLMO_T1	3	5	2	0.47	0.54	0.07	0	0	0	0	0	0	0	0
4/11/2024 13:24	22001	BOHE_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
4/11/2024 13:24	22003	BOHE_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
4/11/2024 13:25	10801	CHHI_T1	3	10	7	0.33	0.93	0.6	-0.87	-0.99	1	1	0	900	900	0
4/11/2024 13:25	45902	AUBU_T1	0	2	2	0	0.1	0.1	-0.59	-0.74	1	1	0	600	600	0
4/11/2024 13:25	60803	BUCK_T1	16	15	-1	0.36	0.35	-0.01	-1.04	-1.06	2	2	0	1200	1200	0
4/11/2024 13:25	14203	EALL_T1	1	3	2	0.1	0.57	0.47	1.06	1.1	0	0	0	0	0	0
4/11/2024 13:25	60801	BUCK_T1	68	21	-47	0.31	0.17	-0.14	0	0	0	0	0	0	0	0
4/11/2024 13:26	20403	ASHF_T2	7	22	15	0.51	0.14	-0.37	0.86	0.59	0	0	0	0	0	0
4/11/2024 13:26	45902	AUBU_T1	0	2	2	0	0.1	0.1	-0.59	-0.74	1	1	0	600	600	0
4/11/2024 13:26	15001	BLMO_T1	3	5	2	0.47	0.54	0.07	0	0	0	0	0	0	0	0
4/11/2024 13:26	20402	ASHF_T2	0	3	3	0	0.63	0.63	0	0	0	0	0	0	0	0
4/11/2024 13:27	45902	AUBU_T1	0	2	2	0	0.1	0.1	-0.59	-0.74	1	1	0	600	600	0
4/11/2024 13:27	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
4/11/2024 13:28	14204	EALL_T2	1	4	3	0.5	0.33	-0.17	-0.33	-0.25	0	0	0	0	0	0
4/11/2024 13:29	65603	QVIL_T2	0	0	0	0	0	0	0.49	0.54	0	0	0	0	0	0
4/11/2024 13:29	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
4/11/2024 13:33	27302	PARR_T1	0	1	1	0	0	0	0.05	0.11	0	0	0	0	0	0
4/11/2024 13:35	40603	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 13:35	40602	PIGR_T1	0	0	0	0	0	0	0.02	0.1	1	1	0	600	600	0
4/11/2024 13:35	40601	PIGR_T1	133	169	36	0.27	0.38	0.11	0	0	0	0	0	0	0	0
4/11/2024 13:36	67803	WLAN_T1	1	3	2	0.1	0.3	0.2	-0.89	-0.88	0	0	0	0	0	0
4/11/2024 13:36	67804	WLAN_T1	5	7	2	0.14	0.29	0.15	0	0	0	0	0	0	0	0
4/11/2024 13:37	67805	WLAN_T1	0	0	0	0	0	0	-0.7	-0.78	0	0	0	0	0	0
4/11/2024 13:37	67803	WLAN_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/11/2024 13:37	67804	WLAN_T1	5	7	2	0.14	0.29	0.15	0	0	0	0	0	0	0	0
4/11/2024 13:38	67804	WLAN_T1	5	7	2	0.14	0.29	0.15	0	0	0	0	0	0	0	0
4/11/2024 13:38	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 13:38	67803	WLAN_T1	1	3	2	0.1	0.3	0.2	-1.76	-1.8	0	0	0	0	0	0
4/11/2024 13:38	61101	BERK_T5	2	2	0	0.1	0.2	0.1	-0.6	-0.62	0	0	0	0	0	0
4/11/2024 13:38	61103	BERK_T5	0	2	2	0	0.15	0.15	-0.01	0	0	0	0	0	0	0
4/11/2024 13:39	67803	WLAN_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/11/2024 13:39	67805	WLAN_T1	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
4/11/2024 13:39	67505	WEWI_T1	0	0	0	0	0	0	-0.09	-0.09	1	1	0	900	900	0
4/11/2024 13:39	27503	WEIS_T2	3	6	3	0.23	0.25	0.02	0	0	0	0	0	0	0	0
4/11/2024 13:39	67501	WEWI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 13:39	67804	WLAN_T1	5	7	2	0.14	0.29	0.15	-1.06	-1.09	0	0	0	0	0	0
4/11/2024 13:39	27502	WEIS_T2	0	0	0	0	0	0	0.11	0.26	0	0	0	0	0	0
4/11/2024 13:40	16101	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/11/2024 13:40	16103	BING_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
4/11/2024 13:40	61101	BERK_T5	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/11/2024 13:40	67803	WLAN_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/11/2024 13:40	16102	BING_T2	1	7	6	0.1	0.5	0.4	-0.1	-0.17	1	1	0	1200	1200	0
4/11/2024 13:40	67804	WLAN_T1	5	7	2	0.14	0.29	0.15	-3.19	-3.28	0	0	0	0	0	0
4/11/2024 13:40	61103	BERK_T5	0	2	2	0	0.15	0.15	-0.01	0	0	0	0	0	0	0
4/11/2024 13:40	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 13:41	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 13:41	61103	BERK_T5	0	2	2	0	0.15	0.15	-0.01	0	0	0	0	0	0	0
4/11/2024 13:41	67802	WLAN_T1	0	0	0	0	0	0	-0.16	-0.14	0	0	0	0	0	0
4/11/2024 13:41	61101	BERK_T5	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/11/2024 13:41	16103	BING_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
4/11/2024 13:41	16102	BING_T2	1	7	6	0.1	0.5	0.4	-0.1	-0.17	1	1	0	1200	1200	0
4/11/2024 13:41	16101	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/11/2024 13:41	67804	WLAN_T1	5	7	2	0.14	0.29	0.15	0	0	0	0	0	0	0	0
4/11/2024 13:41	67803	WLAN_T1	1	3	2	0.1	0.3	0.2	-1.76	-1.8	0	0	0	0	0	0
4/11/2024 13:42	67804	WLAN_T1	5	7	2	0.14	0.29	0.15	-1.06	-1.09	0	0	0	0	0	0
4/11/2024 13:42	14204	EALL_T2	1	4	3	0.6	0.33	-0.27	-0.25	-0.23	0	0	0	0	0	0
4/11/2024 13:42	61101	BERK_T5	2	2	0	0.1	0.2	0.1	-0.6	-0.62	0	0	0	0	0	0
4/11/2024 13:42	61702	ELIZ_T2	0	0	0	0	0	0	-0.76	-0.8	1	1	0	300	300	0
4/11/2024 13:42	61103	BERK_T5	0	2	2	0	0.15	0.15	-0.02	-0.01	0	0	0	0	0	0
4/11/2024 13:42	67803	WLAN_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/11/2024 13:42	45501	DERR_T2	2	2	0	0.25	0.3	0.05	0.64	0.7	2	2	0	1800	1800	0
4/11/2024 13:42	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 13:43	11404	FARM_T1	1	4	3	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
4/11/2024 13:43	11401	FARM_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/11/2024 13:43	11402	FARM_T1	4	7	3	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
4/11/2024 13:43	11405	FARM_T1	0	3	3	0	0.1	0.1	-1.05	-1.09	1	1	0	1200	1200	0
4/11/2024 13:44	12807	MICK_T1	1	2	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
4/11/2024 13:44	20603	GRWO_T2	3	1	-2	0.2	0.1	-0.1	0.41	0.31	0	0	0	0	0	0
4/11/2024 13:44	12801	MICK_T1	0	0	0	0	0	0	0.02	0.01	1	1	0	600	600	0
4/11/2024 13:45	65501	MOJO_T1	0	0	0	0	0	0	-1.04	-1.03	1	1	0	900	900	0
4/11/2024 13:50	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/11/2024 13:52	67703	WERN_T2	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
4/11/2024 13:54	51004	NHAR_T1	13	13	0	1.08	1.11	0.03	-0.38	-0.38	0	0	0	0	0	0
4/11/2024 13:54	51002	NHAR_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
4/11/2024 13:55	67703	WERN_T2	0	0	0	0	0	0	0.71	0.73	0	0	0	0	0	0
4/11/2024 13:56	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/11/2024 13:57	14204	EALL_T2	3	4	1	0.33	0.35	0.02	-0.23	-0.31	0	0	0	0	0	0
4/11/2024 13:59	11404	FARM_T1	3	3	0	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/11/2024 13:59	11405	FARM_T1	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
4/11/2024 13:59	11406	FARM_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/11/2024 13:59	11401	FARM_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/11/2024 13:59	11402	FARM_T1	6	7	1	0.48	0.5	0.02	0	0	0	0	0	0	0	0
4/11/2024 13:59	11407	FARM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 14:01	57306	MOAL_T2	0	1	1	0	0.1	0.1	-6.57	-6.54	2	2	0	2400	2400	0
4/11/2024 14:01	57304	MOAL_T2	65	65	0	0.49	0.56	0.07	0	0	0	0	0	0	0	0
4/11/2024 14:01	57303	MOAL_T2	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
4/11/2024 14:01	24902	WHHA_T1	9	68	59	0.63	0.57	-0.06	0	0	0	0	0	0	0	0
4/11/2024 14:02	65207	PRIN_T4	0	0	0	0	0	0	0	0	2	1	-1	1800	1200	-600
4/11/2024 14:03	57304	MOAL_T2	65	65	0	0.49	0.56	0.07	0	0	0	0	0	0	0	0
4/11/2024 14:03	45701	LIND_T2	0	1	1	0	0	0	-1.08	-1.01	0	0	0	0	0	0
4/11/2024 14:03	45702	LIND_T2	1	94	93	2.2	0.24	-1.96	0	0	0	0	0	0	0	0
4/11/2024 14:03	13501	MCMI_T1	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
4/11/2024 14:03	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 14:03	57303	MOAL_T2	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
4/11/2024 14:03	57306	MOAL_T2	0	1	1	0	0.1	0.1	-3.28	-3.27	1	1	0	1200	1200	0
4/11/2024 14:03	13502	MCMI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 14:07	15603	NSTR_T2	1	1	0	0.3	0.4	0.1	-0.69	-0.69	0	0	0	0	0	0
4/11/2024 14:07	15601	NSTR_T2	3	5	2	0.77	0.76	-0.01	0	0	0	0	0	0	0	0
4/11/2024 14:08	45902	AUBU_T1	0	0	0	0	0	0	-0.76	-0.77	1	1	0	600	600	0
4/11/2024 14:09	45902	AUBU_T1	0	0	0	0	0	0	-0.76	-0.77	1	1	0	600	600	0
4/11/2024 14:10	67804	WLAN_T1	0	0	0	0	0	0	-1.09	-1.07	0	0	0	0	0	0
4/11/2024 14:10	67801	WLAN_T1	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
4/11/2024 14:10	67803	WLAN_T1	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
4/11/2024 14:11	67803	WLAN_T1	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
4/11/2024 14:14	45902	AUBU_T1	0	0	0	0	0	0	-0.76	-0.77	1	1	0	600	600	0
4/11/2024 14:14	45701	LIND_T2	0	1	1	0	0	0	-1.01	-1.01	0	0	0	0	0	0
4/11/2024 14:14	41204	KENM_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
4/11/2024 14:14	41202	KENM_T2	1	0	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/11/2024 14:14	45702	LIND_T2	1	94	93	2.2	0.24	-1.96	0	0	0	0	0	0	0	0
4/11/2024 14:15	50103	HARR_T3	2	2	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
4/11/2024 14:15	50107	HARR_T3	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
4/11/2024 14:15	50201	HARR_T3	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 14:15	50105	HARR_T3	8	8	0	6.13	6.15	0.02	0	0	0	0	0	0	0	0
4/11/2024 14:16	45702	LIND_T2	11	93	82	0.35	0.24	-0.11	-0.57	-0.58	0	0	0	0	0	0
4/11/2024 14:17	46502	LOHA_T1	0	0	0	0	0	0	-1.34	-1.3	1	1	0	1200	1200	0
4/11/2024 14:17	46506	LOHA_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/11/2024 14:17	46504	LOHA_T1	2	2	0	0.6	1.3	0.7	0	0	0	0	0	0	0	0
4/11/2024 14:18	52004	LING_T2	1	1	0	0.4	0.5	0.1	0.33	0.29	0	0	0	0	0	0
4/11/2024 14:18	52002	LING_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
4/11/2024 14:18	52006	LING_T2	3	3	0	0.7	0.93	0.23	0	0	0	0	0	0	0	0
4/11/2024 14:18	45702	LIND_T2	11	93	82	0.35	0.24	-0.11	-0.57	-0.58	0	0	0	0	0	0
4/11/2024 14:19	66001	RHEE_T2	0	0	0	0	0	0	-3.28	-2.54	4	4	0	4200	4200	0
4/11/2024 14:19	45702	LIND_T2	11	93	82	0.35	0.24	-0.11	-0.57	-0.58	0	0	0	0	0	0
4/11/2024 14:19	42201	SHEN_T2	0	1	1	0	0.6	0.6	0.04	0.13	1	1	0	600	600	0
4/11/2024 14:19	13105	NHAM_T2	11	1	-10	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
4/11/2024 14:19	13103	NHAM_T2	0	0	0	0	0	0	-1.75	-1.75	1	1	0	600	600	0
4/11/2024 14:19	45801	HEGI_T1	0	0	0	0	0	0	-0.04	-0.07	1	1	0	900	900	0
4/11/2024 14:22	66001	RHEE_T2	0	0	0	0	0	0	-1.64	-1.27	2	2	0	2100	2100	0
4/11/2024 14:23	61101	BERK_T5	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/11/2024 14:23	61103	BERK_T5	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/11/2024 14:23	61102	BERK_T5	0	1	1	0	0.1	0.1	0.73	0.72	1	1	0	300	300	0
4/11/2024 14:25	45902	AUBU_T1	0	0	0	0	0	0	-0.77	-0.82	1	1	0	600	600	0
4/11/2024 14:25	67703	WERN_T2	0	0	0	0	0	0	0.68	0.71	0	0	0	0	0	0
4/11/2024 14:26	61103	BERK_T5	2	0	-2	0.2	0	-0.2	-0.01	0	0	0	0	0	0	0
4/11/2024 14:26	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 14:26	61101	BERK_T5	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/11/2024 14:27	61103	BERK_T5	2	0	-2	0.2	0	-0.2	-0.01	0	0	0	0	0	0	0
4/11/2024 14:27	47002	HUGH_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/11/2024 14:27	61101	BERK_T5	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/11/2024 14:27	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 14:27	47001	HUGH_T2	0	0	0	0	0	0	-0.2	-0.23	0	0	0	0	0	0
4/11/2024 14:28	52004	LING_T2	1	1	0	0.4	0.5	0.1	0.29	0.31	0	0	0	0	0	0
4/11/2024 14:28	52006	LING_T2	3	3	0	0.7	0.93	0.23	0	0	0	0	0	0	0	0
4/11/2024 14:28	52002	LING_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
4/11/2024 14:29	47001	HUGH_T2	0	0	0	0	0	0	-0.2	-0.23	0	0	0	0	0	0
4/11/2024 14:29	47002	HUGH_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/11/2024 14:30	45902	AUBU_T1	0	0	0	0	0	0	-0.77	-0.82	1	1	0	600	600	0
4/11/2024 14:31	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
4/11/2024 14:31	13502	MCMI_T1	2	11	9	0.1	0.19	0.09	0	0	0	0	0	0	0	0
4/11/2024 14:33	27603	PIRI_T2	0	0	0	0	0	0	-0.69	-0.25	2	2	0	1800	1800	0
4/11/2024 14:36	14801	TREI_T2	96	123	27	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
4/11/2024 14:36	14802	TREI_T2	13	17	4	0.15	0.16	0.01	0.34	0.34	0	0	0	0	0	0
4/11/2024 14:39	14802	TREI_T2	13	17	4	0.15	0.16	0.01	0.34	0.36	0	0	0	0	0	0
4/11/2024 14:39	14801	TREI_T2	96	123	27	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
4/11/2024 14:39	61506	EPET_T2	0	0	0	0	0	0	-1.7	-1.66	2	2	0	1800	1800	0
4/11/2024 14:39	67804	WLAN_T1	0	0	0	0	0	0	-1.07	-1.05	0	0	0	0	0	0
4/11/2024 14:40	14802	TREI_T2	13	17	4	0.15	0.16	0.01	0.34	0.36	0	0	0	0	0	0
4/11/2024 14:40	14801	TREI_T2	96	123	27	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
4/11/2024 14:41	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
4/11/2024 14:43	44505	HAMI_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/11/2024 14:43	44502	HAMI_T2	1	1	0	2.8	3	0.2	-0.88	-0.88	0	0	0	0	0	0
4/11/2024 14:45	53501	EVIL_T2	3	3	0	0.83	0.73	-0.1	-0.38	-0.37	1	1	0	600	600	0
4/11/2024 14:46	57304	MOAL_T2	66	69	3	0.65	0.64	-0.01	0	0	0	0	0	0	0	0
4/11/2024 14:46	57306	MOAL_T2	1	1	0	0.5	0.9	0.4	-3.28	-3.25	1	1	0	1200	1200	0
4/11/2024 14:46	57301	MOAL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 14:46	57303	MOAL_T2	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
4/11/2024 14:47	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
4/11/2024 14:47	13502	MCMI_T1	11	8	-3	0.19	0.13	-0.06	0	0	0	0	0	0	0	0
4/11/2024 14:50	53501	EVIL_T2	3	3	0	0.83	0.73	-0.1	-0.38	-0.37	1	1	0	600	600	0
4/11/2024 14:50	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 14:51	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 14:53	67803	WLAN_T1	0	0	0	0	0	0	-1.7	-1.74	0	0	0	0	0	0
4/11/2024 14:55	11202	ELHE_T2	0	0	0	0	0	0	0.46	0.43	0	0	0	0	0	0
4/11/2024 14:55	40802	EXCH_T2	0	0	0	0	0	0	0.08	-0.04	0	0	0	0	0	0
4/11/2024 14:56	40802	EXCH_T2	0	0	0	0	0	0	0.08	-0.04	0	0	0	0	0	0
4/11/2024 14:57	22102	EDEL_T1	0	0	0	0	0	0	-0.25	-0.63	1	1	0	1200	1200	0
4/11/2024 15:00	40802	EXCH_T2	0	0	0	0	0	0	0.08	-0.04	0	0	0	0	0	0
4/11/2024 15:02	22102	EDEL_T1	0	0	0	0	0	0	-0.25	-0.63	1	1	0	1200	1200	0
4/11/2024 15:05	66702	STRA_T1	0	0	0	0	0	0	0.87	1.02	2	2	0	1500	1500	0
4/11/2024 15:07	55102	WERT_T2	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
4/11/2024 15:08	59102	WALK_T2	1	9	8	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/11/2024 15:08	67501	WEWI_T1	4	2	-2	0.45	0.2	-0.25	-1.06	-1	1	1	0	600	600	0
4/11/2024 15:08	59101	WALK_T2	150	176	26	0.58	0.59	0.01	-0.35	-0.49	0	0	0	0	0	0
4/11/2024 15:09	59101	WALK_T2	150	176	26	0.58	0.59	0.01	-0.35	-0.49	0	0	0	0	0	0
4/11/2024 15:09	59102	WALK_T2	1	9	8	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/11/2024 15:10	67501	WEWI_T1	4	2	-2	0.45	0.2	-0.25	-1.06	-1	1	1	0	600	600	0
4/11/2024 15:15	66502	MOJO_T2	0	0	0	0	0	0	-0.17	-0.09	0	0	0	0	0	0
4/11/2024 15:17	46602	LACR_T1	0	1	1	0	0	0	-1.09	-1.06	0	0	0	0	0	0
4/11/2024 15:19	57403	SPAN_T1	86	79	-7	0.24	0.2	-0.04	-0.05	-0.08	0	0	0	0	0	0
4/11/2024 15:19	57401	SPAN_T1	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
4/11/2024 15:21	57401	SPAN_T1	2	2	0	0.45	0.4	-0.05	-0.89	-0.96	1	1	0	600	600	0
4/11/2024 15:21	57403	SPAN_T1	86	79	-7	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
4/11/2024 15:23	57401	SPAN_T1	2	2	0	0.45	0.4	-0.05	-0.96	-0.94	1	1	0	600	600	0
4/11/2024 15:23	57403	SPAN_T1	86	79	-7	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
4/11/2024 15:23	15001	BLMO_T1	6	6	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
4/11/2024 15:25	62104	ELAN_T1	0	0	0	0	0	0	0.52	0.52	2	2	0	1500	1500	0
4/11/2024 15:26	44301	BEAV_T2	0	2	2	0	0	0	0.69	0.65	1	1	0	600	600	0
4/11/2024 15:27	67605	WARW_T1	36	33	-3	0.6	0.59	-0.01	-1.12	-1.1	0	0	0	0	0	0
4/11/2024 15:27	62105	ELAN_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
4/11/2024 15:29	62102	ELAN_T1	0	0	0	0	0	0	0.64	0.66	0	0	0	0	0	0
4/11/2024 15:29	62104	ELAN_T1	0	0	0	0	0	0	0.52	0.52	2	2	0	1500	1500	0
4/11/2024 15:31	40101	HUNT_T2	0	0	0	0	0	0	-0.22	-0.42	0	0	0	0	0	0
4/11/2024 15:32	52006	LING_T2	3	3	0	1.17	1.2	0.03	0	0	0	0	0	0	0	0
4/11/2024 15:32	52002	LING_T2	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
4/11/2024 15:32	67605	WARW_T1	29	33	4	0.62	0.58	-0.04	-1.12	-1.1	0	0	0	0	0	0
4/11/2024 15:32	52004	LING_T2	1	1	0	0.8	0.9	0.1	0.06	0.12	0	0	0	0	0	0
4/11/2024 15:35	14601	SWHI_T1	0	0	0	0	0	0	-0.72	-0.78	0	0	0	0	0	0
4/11/2024 15:38	55102	WERT_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/11/2024 15:38	43302	WATS_T2	4	4	0	0.5	1.28	0.78	0	0	0	0	0	0	0	0
4/11/2024 15:38	43301	WATS_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
4/11/2024 15:40	14601	SWHI_T1	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
4/11/2024 15:43	63305	GREE_T1	1	7	6	0.1	0.23	0.13	-1.86	-1.88	1	1	0	900	900	0
4/11/2024 15:46	63305	GREE_T1	7	8	1	0.21	0.31	0.1	-1.86	-1.88	1	1	0	900	900	0
4/11/2024 15:48	65702	RVIL_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
4/11/2024 15:49	13302	ORVI_T2	9	1	-8	0.1	0.2	0.1	1.48	1.44	0	0	0	0	0	0
4/11/2024 15:52	20106	AVOC_T1	5	1	-4	0.76	0.1	-0.66	0	0	0	0	0	0	0	0
4/11/2024 15:52	66502	SMAN_T2	0	0	0	0	0	0	0.07	0.13	0	0	0	0	0	0
4/11/2024 15:52	20105	AVOC_T1	1	0	-1	0.2	0	-0.2	-0.96	-0.9	1	1	0	600	600	0
4/11/2024 15:52	20103	AVOC_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/11/2024 15:52	65702	RVIL_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
4/11/2024 15:52	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 15:53	20105	AVOC_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/11/2024 15:53	45902	AUBU_T1	0	1	1	0	0.2	0.2	-0.92	-0.92	1	1	0	600	600	0
4/11/2024 15:53	66502	SMAN_T2	0	0	0	0	0	0	0.27	-0.01	0	0	0	0	0	0
4/11/2024 15:53	20106	AVOC_T1	5	1	-4	0.76	0.1	-0.66	0	0	0	0	0	0	0	0
4/11/2024 15:53	20103	AVOC_T1	2	0	-2	0.15	0	-0.15	-0.24	-0.26	0	0	0	0	0	0
4/11/2024 15:53	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 15:54	61302	EARL_T1	0	0	0	0	0	0	0.5	0.31	2	2	0	1800	1800	0
4/11/2024 15:57	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 15:57	66502	SMAN_T2	0	0	0	0	0	0	0.13	-0.01	0	0	0	0	0	0
4/11/2024 15:58	60903	DONG_T2	0	0	0	0	0	0	1.4	1.62	2	2	0	1200	1200	0
4/11/2024 15:58	12006	HATF_T1	0	0	0	0	0	0	0.51	0.4	1	1	0	1200	1200	0
4/11/2024 15:59	52002	LING_T2	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
4/11/2024 15:59	52006	LING_T2	3	3	0	1.2	1.17	-0.03	0	0	0	0	0	0	0	0
4/11/2024 15:59	52004	LING_T2	1	1	0	0.9	0.8	-0.1	0.06	0.07	0	0	0	0	0	0
4/11/2024 16:02	64302	LINC_T2	0	0	0	0	0	0	1.18	1.15	0	0	0	0	0	0
4/11/2024 16:07	66502	SMAN_T2	0	0	0	0	0	0	0.13	-0.01	0	0	0	0	0	0
4/11/2024 16:07	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 16:10	45902	AUBU_T1	1	1	0	0.2	0.1	-0.1	-1.84	-1.77	2	2	0	1200	1200	0
4/11/2024 16:10	61102	BERK_T5	1	0	-1	0.1	0	-0.1	0.59	0.76	1	1	0	300	300	0
4/11/2024 16:10	67502	WEWI_T2	0	0	0	0	0	0	-0.41	-0.46	0	0	0	0	0	0
4/11/2024 16:12	61102	BERK_T5	1	0	-1	0.1	0	-0.1	1.19	1.53	2	2	0	600	600	0
4/11/2024 16:15	62602	ENGL_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/11/2024 16:15	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-0.92	-0.89	1	1	0	600	600	0
4/11/2024 16:16	41502	FAIR_T2	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
4/11/2024 16:17	65702	RVIL_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
4/11/2024 16:20	44202	POIN_T2	0	0	0	0	0	0	-0.68	-0.82	1	1	0	1200	1200	0
4/11/2024 16:27	26401	INOR_T1	1	1	0	8.3	9.2	0.9	0.46	0.66	0	0	0	0	0	0
4/11/2024 16:28	51102	CARL_T1	22	48	26	0.11	0.16	0.05	0	0	0	0	0	0	0	0
4/11/2024 16:28	51108	CARL_T1	1	1	0	0.2	0.5	0.3	-0.5	-0.49	0	0	0	0	0	0
4/11/2024 16:34	41504	FAIR_T2	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
4/11/2024 16:38	44301	BEAV_T2	0	0	0	0	0	0	0.34	0.3	1	1	0	600	600	0
4/11/2024 16:44	24702	FLND_T2	0	0	0	0	0	0	0.29	0	1	1	0	1200	1200	0
4/11/2024 16:46	63402	HONY_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
4/11/2024 16:46	63403	HONY_T2	0	0	0	0	0	0	-0.58	-0.6	1	1	0	600	600	0
4/11/2024 16:47	41902	REED_T1	0	0	0	0	0	0	1.13	1.15	0	0	0	0	0	0
4/11/2024 16:47	41502	FAIR_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
4/11/2024 16:48	65603	QVIL_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
4/11/2024 16:52	43704	WILL_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
4/11/2024 16:52	43705	WILL_T1	2	2	0	1.35	1.6	0.25	0	0	0	0	0	0	0	0
4/11/2024 16:52	43703	WILL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 16:52	43701	WILL_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
4/11/2024 16:54	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 16:54	66502	SMAN_T2	0	0	0	0	0	0	0.37	0.16	0	0	0	0	0	0
4/11/2024 16:54	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 16:55	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 16:55	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 16:55	66502	SMAN_T2	0	0	0	0	0	0	0.19	0.08	0	0	0	0	0	0
4/11/2024 16:59	63305	GREE_T1	8	8	0	0.25	0.38	0.13	0	0	0	0	0	0	0	0
4/11/2024 16:59	63306	GREE_T1	0	0	0	0	0	0	-1.3	-1.35	1	1	0	900	900	0
4/11/2024 17:02	46102	MACI_T1	244	291	47	0.3	0.3	0	0.31	0.31	0	0	0	0	0	0
4/11/2024 17:12	61301	EARL_T1	0	0	0	0	0	0	-0.52	-0.49	1	1	0	900	900	0
4/11/2024 17:16	64202	KINZ_T1	3	3	0	0.47	0.17	-0.3	0	0	0	0	0	0	0	0
4/11/2024 17:16	64501	LAVI_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
4/11/2024 17:16	64203	KINZ_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
4/11/2024 17:16	64204	KINZ_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
4/11/2024 17:16	64201	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/11/2024 17:25	15001	BLMO_T1	4	4	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
4/11/2024 17:26	14801	TREI_T2	19	1	-18	0.13	0.3	0.17	0	0	0	0	0	0	0	0
4/11/2024 17:26	14802	TREI_T2	2	1	-1	0.1	0.1	0	0.25	0.27	0	0	0	0	0	0
4/11/2024 17:51	10805	CHHI_T2	1	1	0	8.2	7.9	-0.3	-0.59	-0.58	0	0	0	0	0	0
4/11/2024 17:59	62605	ENGL_T1	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
4/11/2024 18:33	65603	QVIL_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
4/11/2024 19:24	45602	WOOL_T1	1	0	-1	0.2	0	-0.2	0.33	0.35	0	0	0	0	0	0
4/11/2024 20:16	17002	RIRO_T2	33	16	-17	0.18	0.13	-0.05	0.36	0.33	0	0	0	0	0	0
4/11/2024 20:25	45902	AUBU_T1	0	0	0	0	0	0	-0.51	-0.42	0	0	0	0	0	0
4/11/2024 20:26	66502	SMAN_T2	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
4/11/2024 20:26	66501	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 20:26	66503	SMAN_T2	4	3	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/11/2024 20:26	66505	SMAN_T2	3	2	-1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
4/11/2024 20:31	15601	NSTR_T2	9	15	6	0.53	0.39	-0.14	0	0	0	0	0	0	0	0
4/11/2024 20:31	15603	NSTR_T2	8	10	2	0.14	0.16	0.02	-0.66	-0.66	0	0	0	0	0	0
4/11/2024 20:32	51002	NHAR_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 20:32	51004	NHAR_T1	12	13	1	0.88	0.91	0.03	-0.42	-0.43	0	0	0	0	0	0
4/11/2024 20:34	63802	HEMP_T1	0	0	0	0	0	0	0.19	0.15	0	0	0	0	0	0
4/11/2024 20:34	45902	AUBU_T1	0	0	0	0	0	0	-0.51	-0.42	0	0	0	0	0	0
4/11/2024 20:34	12807	MICK_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
4/11/2024 20:34	14801	TREI_T2	53	82	29	0.14	0.14	0	0.36	0.37	0	0	0	0	0	0
4/11/2024 20:34	14802	TREI_T2	15	27	12	0.14	0.16	0.02	0	0	0	0	0	0	0	0
4/11/2024 20:34	12801	MICK_T1	0	0	0	0	0	0	-0.23	-0.23	1	1	0	600	600	0
4/11/2024 20:34	63804	HEMP_T1	1	1	0	6.5	6.1	-0.4	0	0	0	0	0	0	0	0
4/11/2024 20:35	67401	WAKE_T2	137	182	45	0.33	0.38	0.05	0	0	0	0	0	0	0	0
4/11/2024 20:35	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
4/11/2024 20:36	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1.02	0	0	0	0	0	0
4/11/2024 20:38	10801	CHHI_T1	0	0	0	0	0	0	-0.99	-0.97	1	1	0	900	900	0
4/11/2024 20:38	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 20:40	45902	AUBU_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
4/11/2024 20:45	59101	WALK_T2	56	64	8	0.32	0.65	0.33	-0.64	-0.66	0	0	0	0	0	0
4/11/2024 20:45	47104	MARL_T1	0	1	1	0	0	0	0.35	0.38	0	0	0	0	0	0
4/11/2024 20:45	59102	WALK_T2	71	71	0	0.35	0.36	0.01	0	0	0	0	0	0	0	0
4/11/2024 20:46	15001	BLMO_T1	4	4	0	0.28	0.5	0.22	0	0	0	0	0	0	0	0
4/11/2024 20:48	15001	BLMO_T1	4	4	0	0.28	0.5	0.22	0	0	0	0	0	0	0	0
4/11/2024 20:48	53601	DALM_T2	1	1	0	0.8	1	0.2	-0.14	-0.09	0	0	0	0	0	0
4/11/2024 20:49	12602	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 20:49	27502	WEIS_T2	0	0	0	0	0	0	0.02	-0.11	0	0	0	0	0	0
4/11/2024 20:49	13502	MCMI_T1	3	5	2	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/11/2024 20:49	20403	ASHF_T2	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
4/11/2024 20:49	20401	ASHF_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
4/11/2024 20:49	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
4/11/2024 20:49	12606	MACA_T1	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
4/11/2024 20:49	45901	AUBU_T1	0	0	0	0	0	0	1.91	1.9	0	0	0	0	0	0
4/11/2024 20:49	15001	BLMO_T1	4	4	0	0.28	0.5	0.22	0	0	0	0	0	0	0	0
4/11/2024 20:51	52002	LING_T2	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
4/11/2024 20:51	52006	LING_T2	3	3	0	0.6	0.83	0.23	0	0	0	0	0	0	0	0
4/11/2024 20:51	52004	LING_T2	0	1	1	0	0.2	0.2	0.1	0.09	0	0	0	0	0	0
4/11/2024 20:52	66303	MCGO_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/11/2024 20:52	66302	MCGO_T2	0	0	0	0	0	0	-4.11	-4.16	3	3	0	1800	1800	0
4/11/2024 20:53	14204	EALL_T2	0	0	0	0	0	0	-0.47	-0.43	0	0	0	0	0	0
4/11/2024 20:53	46302	ROHR_T1	80	184	104	0.25	0.54	0.29	0	0	0	0	0	0	0	0
4/11/2024 20:53	46301	ROHR_T1	179	335	156	0.35	0.54	0.19	0.17	0.17	0	0	0	0	0	0
4/11/2024 20:54	46502	LOHA_T1	0	0	0	0	0	0	-1.36	-1.38	1	1	0	1200	1200	0
4/11/2024 20:54	10801	CHHI_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	900	900	0
4/11/2024 20:54	46506	LOHA_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/11/2024 20:54	46504	LOHA_T1	2	47	45	0.95	0.25	-0.7	0	0	0	0	0	0	0	0
4/11/2024 20:55	52502	PROG_T2	0	0	0	0	0	0	-0.71	0.26	1	0	-1	900	0	-900
4/11/2024 20:55	45602	WOOL_T1	0	2	2	0	0.4	0.4	0.34	0.33	0	0	0	0	0	0
4/11/2024 20:57	15001	BLMO_T1	4	4	0	0.28	0.5	0.22	0	0	0	0	0	0	0	0
4/11/2024 20:57	14802	TREI_T2	27	10	-17	0.15	0.15	0	0.29	0.26	0	0	0	0	0	0
4/11/2024 20:57	14801	TREI_T2	81	22	-59	0.14	0.11	-0.03	0	0	0	0	0	0	0	0
4/11/2024 20:57	10801	CHHI_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	900	900	0
4/11/2024 20:58	47001	HUGH_T2	0	0	0	0	0	0	-0.18	-0.22	0	0	0	0	0	0
4/11/2024 20:59	40302	TAMA_T3	60	107	47	0.73	0.79	0.06	0.33	0.36	0	0	0	0	0	0
4/11/2024 20:59	40303	TAMA_T3	17	25	8	0.36	0.5	0.14	0	0	0	0	0	0	0	0
4/11/2024 20:59	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:00	51101	CARL_T1	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 21:00	51104	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 21:00	51107	CARL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 21:00	14801	TREI_T2	22	0	-22	0.11	0	-0.11	0	0	0	0	0	0	0	0
4/11/2024 21:00	14802	TREI_T2	10	0	-10	0.15	0	-0.15	0.29	0.26	0	0	0	0	0	0
4/11/2024 21:00	51108	CARL_T1	0	78	78	0	0.12	0.12	0	0	0	0	0	0	0	0
4/11/2024 21:00	11405	FARM_T1	1	1	0	3.9	3.1	-0.8	-1.06	-1.08	1	1	0	1200	1200	0
4/11/2024 21:00	51102	CARL_T1	17	171	154	0.13	0.39	0.26	0	0	0	0	0	0	0	0
4/11/2024 21:00	51109	CARL_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
4/11/2024 21:01	50202	HARR_T3	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
4/11/2024 21:01	15001	BLMO_T1	4	4	0	0.48	0.5	0.02	0	0	0	0	0	0	0	0
4/11/2024 21:01	50103	HARR_T3	2	2	0	0.15	0.6	0.45	-0.75	-0.79	1	1	0	1200	1200	0
4/11/2024 21:01	20602	GRWO_T2	0	17	17	0	0.11	0.11	0	0	0	0	0	0	0	0
4/11/2024 21:01	20603	GRWO_T2	11	37	26	0.14	0.26	0.12	0.31	0.29	0	0	0	0	0	0
4/11/2024 21:01	50105	HARR_T3	8	8	0	6.41	6.08	-0.33	0	0	0	0	0	0	0	0
4/11/2024 21:01	50201	HARR_T3	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/11/2024 21:02	57401	SPAN_T1	1	3	2	8	2.6	-5.4	-0.89	-0.85	1	1	0	600	600	0
4/11/2024 21:02	57403	SPAN_T1	13	34	21	0.22	0.29	0.07	0	0	0	0	0	0	0	0
4/11/2024 21:03	26402	INOR_T1	0	15	15	0	0.27	0.27	0	0	0	0	0	0	0	0
4/11/2024 21:03	16201	POFA_T2	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/11/2024 21:03	26401	INOR_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
4/11/2024 21:04	46004	BERW_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
4/11/2024 21:04	50103	HARR_T3	2	2	0	0.15	0.6	0.45	0	0	0	0	0	0	0	0
4/11/2024 21:04	50201	HARR_T3	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/11/2024 21:04	50107	HARR_T3	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
4/11/2024 21:04	46602	LACR_T1	0	0	0	0	0	0	-1.03	-1.08	0	0	0	0	0	0
4/11/2024 21:04	50105	HARR_T3	8	8	0	6.41	6.08	-0.33	0	0	0	0	0	0	0	0
4/11/2024 21:04	51505	SWAT_T2	0	0	0	0	0	0	0.56	0.67	0	0	0	0	0	0
4/11/2024 21:04	50202	HARR_T3	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
4/11/2024 21:05	14601	SWHI_T1	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
4/11/2024 21:06	45801	HEGI_T1	0	0	0	0	0	0	-0.15	-0.14	1	1	0	900	900	0
4/11/2024 21:06	41301	FISH_T1	7	111	104	0.79	0.22	-0.57	-0.01	-0.02	0	0	0	0	0	0
4/11/2024 21:06	41305	FISH_T1	0	21	21	0	0.17	0.17	0	0	0	0	0	0	0	0
4/11/2024 21:06	46301	ROHR_T1	219	345	126	0.34	0.55	0.21	0.17	0.17	0	0	0	0	0	0
4/11/2024 21:06	46302	ROHR_T1	151	184	33	0.36	0.54	0.18	0	0	0	0	0	0	0	0
4/11/2024 21:06	14601	SWHI_T1	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
4/11/2024 21:08	20403	ASHF_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
4/11/2024 21:08	20401	ASHF_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
4/11/2024 21:08	20103	AVOC_T1	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
4/11/2024 21:09	47403	PENS_T1	0	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0
4/11/2024 21:09	47401	PENS_T1	0	0	0	0	0	0	0.74	0.72	0	0	0	0	0	0
4/11/2024 21:10	24901	WHHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 21:10	24902	WHHA_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/11/2024 21:11	10805	CHHI_T2	1	1	0	7.7	7.8	0.1	-0.74	-0.73	0	0	0	0	0	0
4/11/2024 21:12	53902	HALI_T2	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
4/11/2024 21:12	45902	AUBU_T1	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
4/11/2024 21:12	14801	TREI_T2	22	0	-22	0.11	0	-0.11	0	0	0	0	0	0	0	0
4/11/2024 21:12	55003	NEWP_T2	0	7	7	0	0.29	0.29	-0.17	-0.25	0	0	0	0	0	0
4/11/2024 21:12	52002	LING_T2	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
4/11/2024 21:12	52006	LING_T2	3	3	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/11/2024 21:12	14802	TREI_T2	10	0	-10	0.15	0	-0.15	0.26	0.26	0	0	0	0	0	0
4/11/2024 21:12	53901	HALI_T2	1	1	0	0.7	1.1	0.4	-0.99	-1.01	0	0	0	0	0	0
4/11/2024 21:12	52004	LING_T2	0	1	1	0	0.2	0.2	0.09	0.1	0	0	0	0	0	0
4/11/2024 21:12	24703	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:12	24702	FLND_T2	0	0	0	0	0	0	0.82	0.94	0	0	0	0	0	0
4/11/2024 21:12	53903	HALI_T2	2	6	4	1.7	0.7	-1	0	0	0	0	0	0	0	0
4/11/2024 21:13	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0.38	0.33	1	1	0	600	600	0
4/11/2024 21:13	44302	BEAV_T2	53	6	-47	0.19	0.13	-0.06	0	0	0	0	0	0	0	0
4/11/2024 21:13	20105	AVOC_T1	0	0	0	0	0	0	-0.95	-0.98	1	1	0	600	600	0
4/11/2024 21:14	51101	CARL_T1	0	10	10	0	0.1	0.1	-0.81	-0.83	0	0	0	0	0	0
4/11/2024 21:14	51102	CARL_T1	17	171	154	0.13	0.39	0.26	0	0	0	0	0	0	0	0
4/11/2024 21:14	51104	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/11/2024 21:14	51107	CARL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 21:14	51108	CARL_T1	0	78	78	0	0.12	0.12	0	0	0	0	0	0	0	0
4/11/2024 21:15	52006	LING_T2	3	3	0	0.83	1.17	0.34	0	0	0	0	0	0	0	0
4/11/2024 21:15	51401	LYKE_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
4/11/2024 21:15	40601	PIGR_T1	208	231	23	0.36	0.42	0.06	0	0	0	0	0	0	0	0
4/11/2024 21:15	40603	PIGR_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
4/11/2024 21:15	11601	CEAL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:15	52004	LING_T2	1	0	-1	0.2	0	-0.2	0.09	0.1	0	0	0	0	0	0
4/11/2024 21:15	52002	LING_T2	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
4/11/2024 21:15	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:15	66001	RHEE_T2	0	0	0	0	0	0	-0.68	-0.72	1	1	0	900	900	0
4/11/2024 21:15	51402	LYKE_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 21:15	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:15	67502	WEWI_T2	66	20	-46	0.15	0.14	-0.01	-0.48	-0.47	0	0	0	0	0	0
4/11/2024 21:16	57401	SPAN_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/11/2024 21:16	57301	MOAL_T2	3	3	0	0.67	0.27	-0.4	0	0	0	0	0	0	0	0
4/11/2024 21:16	52006	LING_T2	3	3	0	0.83	1.17	0.34	0	0	0	0	0	0	0	0
4/11/2024 21:16	51108	CARL_T1	78	13	-65	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
4/11/2024 21:16	62103	ELAN_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
4/11/2024 21:16	51102	CARL_T1	157	164	7	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
4/11/2024 21:16	62101	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/11/2024 21:16	52004	LING_T2	1	0	-1	0.2	0	-0.2	0.09	0.1	0	0	0	0	0	0
4/11/2024 21:16	57304	MOAL_T2	62	63	1	0.49	0.5	0.01	0	0	0	0	0	0	0	0
4/11/2024 21:16	51104	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 21:16	51107	CARL_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/11/2024 21:16	62104	ELAN_T1	0	0	0	0	0	0	0.74	0.7	1	1	0	1200	1200	0
4/11/2024 21:16	57306	MOAL_T2	0	0	0	0	0	0	-3.26	-3.26	1	1	0	1200	1200	0
4/11/2024 21:16	65503	MOJO_T2	3	0	-3	0.1	0	-0.1	-0.49	-0.47	0	0	0	0	0	0
4/11/2024 21:16	62105	ELAN_T1	168	2	-166	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/11/2024 21:16	62106	ELAN_T1	10	7	-3	0.41	0.16	-0.25	0	0	0	0	0	0	0	0
4/11/2024 21:16	51101	CARL_T1	10	0	-10	0.1	0	-0.1	-0.81	-0.83	0	0	0	0	0	0
4/11/2024 21:16	57303	MOAL_T2	1	1	0	6.1	6.6	0.5	0	0	0	0	0	0	0	0
4/11/2024 21:16	52002	LING_T2	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
4/11/2024 21:16	57403	SPAN_T1	18	129	111	0.24	0.26	0.02	-0.01	-0.06	0	0	0	0	0	0
4/11/2024 21:16	64302	LINC_T2	0	0	0	0	0	0	1.04	0.95	0	0	0	0	0	0
4/11/2024 21:16	14204	EALL_T2	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
4/11/2024 21:17	44301	BEAV_T2	0	0	0	0	0	0	0.75	0.65	2	2	0	1200	1200	0
4/11/2024 21:17	47401	PENS_T1	0	0	0	0	0	0	0.74	0.72	0	0	0	0	0	0
4/11/2024 21:17	66505	SMAN_T2	3	3	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
4/11/2024 21:17	47403	PENS_T1	0	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0
4/11/2024 21:17	44302	BEAV_T2	6	0	-6	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/11/2024 21:17	57002	WHHI_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
4/11/2024 21:17	66502	SMAN_T2	0	0	0	0	0	0	-0.04	-0.13	0	0	0	0	0	0
4/11/2024 21:17	65503	MOJO_T2	3	0	-3	0.1	0	-0.1	-0.49	-0.47	0	0	0	0	0	0
4/11/2024 21:17	20401	ASHF_T2	3	2	-1	0.2	0.1	-0.1	-0.3	-0.29	0	0	0	0	0	0
4/11/2024 21:17	66503	SMAN_T2	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/11/2024 21:17	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/11/2024 21:17	40101	HUNT_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
4/11/2024 21:17	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 21:18	62105	ELAN_T1	168	2	-166	0.2	0.1	-0.1	0.47	0.45	0	0	0	0	0	0
4/11/2024 21:18	66902	SHIL_T2	0	0	0	0	0	0	-1.58	-1.58	0	0	0	0	0	0
4/11/2024 21:18	62103	ELAN_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
4/11/2024 21:18	65001	NEFF_T2	163	4	-159	0.23	0.1	-0.13	-1.01	-0.98	1	1	0	1200	1200	0
4/11/2024 21:18	62106	ELAN_T1	10	7	-3	0.41	0.16	-0.25	0	0	0	0	0	0	0	0
4/11/2024 21:18	67605	WARW_T1	25	39	14	0.62	0.67	0.05	0	0	0	0	0	0	0	0
4/11/2024 21:18	62101	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/11/2024 21:18	67603	WARW_T1	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
4/11/2024 21:18	40802	EXCH_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
4/11/2024 21:18	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/11/2024 21:19	66001	RHEE_T2	0	0	0	0	0	0	-0.68	-0.72	1	1	0	900	900	0
4/11/2024 21:19	67702	WERN_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
4/11/2024 21:19	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:19	13302	ORVI_T2	26	0	-26	0.32	0	-0.32	1.37	1.27	0	0	0	0	0	0
4/11/2024 21:19	42401	GIMA_T1	148	142	-6	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
4/11/2024 21:19	63305	GREE_T1	7	1	-6	0.27	0.1	-0.17	-1.04	-0.95	0	0	0	0	0	0
4/11/2024 21:19	57303	MOAL_T2	1	1	0	6.1	6.6	0.5	0	0	0	0	0	0	0	0
4/11/2024 21:19	58402	MORO_T1	0	0	0	0	0	0	-0.34	-0.29	2	2	0	1500	1500	0
4/11/2024 21:19	16301	ALPA_T1	34	47	13	0.14	0.16	0.02	-0.46	-0.47	0	0	0	0	0	0
4/11/2024 21:19	57403	SPAN_T1	18	129	111	0.24	0.26	0.02	-0.01	-0.06	0	0	0	0	0	0
4/11/2024 21:19	57306	MOAL_T2	0	0	0	0	0	0	-6.52	-6.52	2	2	0	2400	2400	0
4/11/2024 21:19	57304	MOAL_T2	62	63	1	0.49	0.5	0.01	0	0	0	0	0	0	0	0
4/11/2024 21:19	57301	MOAL_T2	3	3	0	0.67	0.27	-0.4	0	0	0	0	0	0	0	0
4/11/2024 21:19	57401	SPAN_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/11/2024 21:20	56602	HAMP_T2	2	2	0	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
4/11/2024 21:20	40601	PIGR_T1	208	231	23	0.36	0.42	0.06	-0.14	-0.17	0	0	0	0	0	0
4/11/2024 21:20	56604	HAMP_T2	0	0	0	0	0	0	-0.54	-0.63	0	0	0	0	0	0
4/11/2024 21:20	42903	MIDD_T2	2	2	0	2.1	1.6	-0.5	0	0	0	0	0	0	0	0
4/11/2024 21:20	63402	HONY_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/11/2024 21:20	67501	WEWI_T1	0	0	0	0	0	0	-1.26	-0.59	1	0	-1	600	0	-600
4/11/2024 21:20	42902	MIDD_T2	24	5	-19	0.18	0.16	-0.02	-0.4	-0.46	0	0	0	0	0	0
4/11/2024 21:20	60802	BUCK_T2	203	213	10	0.26	0.31	0.05	0.16	0.15	0	0	0	0	0	0
4/11/2024 21:20	63403	HONY_T2	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
4/11/2024 21:20	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:20	42901	MIDD_T2	75	0	-75	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/11/2024 21:21	64101	REFR_T1	0	0	0	0	0	0	-0.87	-0.9	0	0	0	0	0	0
4/11/2024 21:21	60903	DONG_T2	0	0	0	0	0	0	0.53	0.54	1	1	0	600	600	0
4/11/2024 21:21	62104	ELAN_T1	0	0	0	0	0	0	0.74	0.7	1	1	0	1200	1200	0
4/11/2024 21:21	67505	WEWI_T1	0	0	0	0	0	0	-0.21	-0.23	1	1	0	900	900	0
4/11/2024 21:21	11406	FARM_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
4/11/2024 21:21	62103	ELAN_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
4/11/2024 21:21	57403	SPAN_T1	18	129	111	0.24	0.26	0.02	0	0	0	0	0	0	0	0
4/11/2024 21:21	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/11/2024 21:21	65207	PRIN_T4	2	0	-2	0.1	0	-0.1	0	0	1	1	0	1200	1200	0
4/11/2024 21:21	62106	ELAN_T1	10	7	-3	0.41	0.16	-0.25	0	0	0	0	0	0	0	0
4/11/2024 21:21	65702	RVIL_T2	0	0	0	0	0	0	-0.54	-0.62	0	0	0	0	0	0
4/11/2024 21:21	62105	ELAN_T1	168	2	-166	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/11/2024 21:21	67703	WERN_T2	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
4/11/2024 21:21	57401	SPAN_T1	2	2	0	0.3	0.35	0.05	-0.85	-0.9	1	1	0	600	600	0
4/11/2024 21:21	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:21	62101	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/11/2024 21:21	11405	FARM_T1	1	1	0	3.3	3.1	-0.2	0	0	0	0	0	0	0	0
4/11/2024 21:22	67505	WEWI_T1	0	0	0	0	0	0	-0.21	-0.23	1	1	0	900	900	0
4/11/2024 21:22	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:22	67605	WARW_T1	25	39	14	0.62	0.67	0.05	-1.23	-1.24	0	0	0	0	0	0
4/11/2024 21:22	47403	PENS_T1	0	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0
4/11/2024 21:22	63602	LETO_T1	4	63	59	0.1	0.13	0.03	-0.4	-0.44	0	0	0	0	0	0
4/11/2024 21:22	14204	EALL_T2	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
4/11/2024 21:22	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:22	58402	MORO_T1	0	0	0	0	0	0	-0.34	-0.29	2	2	0	1500	1500	0
4/11/2024 21:22	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.71	0	0	0	0	0	0
4/11/2024 21:22	40601	PIGR_T1	208	231	23	0.36	0.42	0.06	-0.14	-0.17	0	0	0	0	0	0
4/11/2024 21:22	60801	BUCK_T1	79	151	72	0.47	0.42	-0.05	0	0	0	0	0	0	0	0
4/11/2024 21:22	60803	BUCK_T1	32	77	45	0.54	0.39	-0.15	-0.57	-0.58	1	1	0	600	600	0
4/11/2024 21:22	47401	PENS_T1	0	0	0	0	0	0	0.74	0.72	0	0	0	0	0	0
4/11/2024 21:23	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/11/2024 21:23	65207	PRIN_T4	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 21:23	45701	LIND_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
4/11/2024 21:23	47401	PENS_T1	0	0	0	0	0	0	0.72	0.8	0	0	0	0	0	0
4/11/2024 21:23	66902	SHIL_T2	0	0	0	0	0	0	-0.79	-0.79	0	0	0	0	0	0
4/11/2024 21:23	43301	WATS_T2	0	0	0	0	0	0	0.36	0.31	0	0	0	0	0	0
4/11/2024 21:23	64101	REFR_T1	0	0	0	0	0	0	-0.9	-0.95	0	0	0	0	0	0
4/11/2024 21:23	64801	MONE_T2	51	65	14	0.32	0.29	-0.03	0	0	0	0	0	0	0	0
4/11/2024 21:23	47403	PENS_T1	0	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0
4/11/2024 21:23	45702	LIND_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/11/2024 21:23	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.52	0	0	0	0	0	0
4/11/2024 21:23	51603	DUKE_T1	2	2	0	0.4	0.3	-0.1	-0.42	-0.42	0	0	0	0	0	0
4/11/2024 21:23	60801	BUCK_T1	79	151	72	0.47	0.42	-0.05	0	0	0	0	0	0	0	0
4/11/2024 21:23	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:23	60803	BUCK_T1	32	77	45	0.54	0.39	-0.15	-0.58	-0.55	1	1	0	600	600	0
4/11/2024 21:23	65702	RVIL_T2	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
4/11/2024 21:23	43302	WATS_T2	5	4	-1	1.02	1.4	0.38	0	0	0	0	0	0	0	0
4/11/2024 21:23	64802	MONE_T2	147	147	0	0.21	0.23	0.02	0.17	0.17	0	0	0	0	0	0
4/11/2024 21:24	47401	PENS_T1	0	0	0	0	0	0	1.44	1.61	0	0	0	0	0	0
4/11/2024 21:24	16301	ALPA_T1	34	47	13	0.14	0.16	0.02	-0.47	-0.44	0	0	0	0	0	0
4/11/2024 21:24	47001	HUGH_T2	0	0	0	0	0	0	-0.27	-0.33	0	0	0	0	0	0
4/11/2024 21:24	51603	DUKE_T1	2	2	0	0.4	0.3	-0.1	-0.42	-0.4	0	0	0	0	0	0
4/11/2024 21:24	60801	BUCK_T1	79	151	72	0.47	0.42	-0.05	-0.22	-0.22	0	0	0	0	0	0
4/11/2024 21:24	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
4/11/2024 21:24	45702	LIND_T2	1	1	0	0.5	0.8	0.3	-0.6	-0.59	0	0	0	0	0	0
4/11/2024 21:24	47403	PENS_T1	0	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0
4/11/2024 21:24	60803	BUCK_T1	32	77	45	0.54	0.39	-0.15	0	0	0	0	0	0	0	0
4/11/2024 21:24	59002	MIFF_T1	5	5	0	0.26	0.14	-0.12	0	0	0	0	0	0	0	0
4/11/2024 21:24	45701	LIND_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
4/11/2024 21:24	59003	MIFF_T1	1	0	-1	0.1	0	-0.1	0.62	0.65	0	0	0	0	0	0
4/11/2024 21:24	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/11/2024 21:24	42201	SHEN_T2	0	0	0	0	0	0	-0.06	-0.05	1	1	0	600	600	0
4/11/2024 21:25	43701	WILL_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
4/11/2024 21:25	62601	ENGL_T1	0	0	0	0	0	0	-0.16	-0.09	0	0	0	0	0	0
4/11/2024 21:25	46102	MACI_T1	412	433	21	0.68	0.7	0.02	0.51	0.32	0	0	0	0	0	0
4/11/2024 21:25	62103	ELAN_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
4/11/2024 21:25	43302	WATS_T2	5	4	-1	1.02	1.4	0.38	0	0	0	0	0	0	0	0
4/11/2024 21:25	62101	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/11/2024 21:25	41502	FAIR_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
4/11/2024 21:25	43705	WILL_T1	2	2	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/11/2024 21:25	47403	PENS_T1	0	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0
4/11/2024 21:25	51004	NHAR_T1	12	12	0	0.99	1.14	0.15	0	0	0	0	0	0	0	0
4/11/2024 21:25	41901	REED_T1	8	3	-5	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
4/11/2024 21:25	62606	ENGL_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/11/2024 21:25	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/11/2024 21:25	62106	ELAN_T1	10	7	-3	0.41	0.16	-0.25	0	0	0	0	0	0	0	0
4/11/2024 21:25	43301	WATS_T2	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
4/11/2024 21:25	51003	NHAR_T1	4	0	-4	0.35	0	-0.35	-2.35	-2.39	1	1	0	1200	1200	0
4/11/2024 21:25	51002	NHAR_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/11/2024 21:25	43702	WILL_T1	0	359	359	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:25	40802	EXCH_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
4/11/2024 21:25	51006	NHAR_T1	7	0	-7	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 21:25	43704	WILL_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
4/11/2024 21:25	62105	ELAN_T1	168	2	-166	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/11/2024 21:25	62102	ELAN_T1	0	0	0	0	0	0	0.62	0.58	0	0	0	0	0	0
4/11/2024 21:25	47401	PENS_T1	0	0	0	0	0	0	0.72	0.8	0	0	0	0	0	0
4/11/2024 21:25	41902	REED_T1	0	0	0	0	0	0	1.03	1.02	0	0	0	0	0	0
4/11/2024 21:26	59102	WALK_T2	66	42	-24	0.35	0.17	-0.18	0	0	0	0	0	0	0	0
4/11/2024 21:26	64101	REFR_T1	0	0	0	0	0	0	-0.9	-0.95	0	0	0	0	0	0
4/11/2024 21:26	59101	WALK_T2	64	63	-1	0.64	0.56	-0.08	-1.33	-1.38	0	0	0	0	0	0
4/11/2024 21:26	12006	HATF_T1	0	0	0	0	0	0	1.15	1.16	0	0	0	0	0	0
4/11/2024 21:26	67605	WARW_T1	25	39	14	0.62	0.67	0.05	-1.24	-1.25	0	0	0	0	0	0
4/11/2024 21:26	67501	WEWI_T1	0	0	0	0	0	0	-0.59	-0.65	0	0	0	0	0	0
4/11/2024 21:26	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/11/2024 21:26	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:26	67604	WARW_T1	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
4/11/2024 21:26	45702	LIND_T2	1	1	0	0.5	0.8	0.3	-0.6	-0.59	0	0	0	0	0	0
4/11/2024 21:26	64702	LITI_T2	0	0	0	0	0	0	-0.71	-0.75	0	0	0	0	0	0
4/11/2024 21:27	67804	WLAN_T1	67	58	-9	0.14	0.13	-0.01	-2.28	-2.28	0	0	0	0	0	0
4/11/2024 21:27	63305	GREE_T1	7	1	-6	0.27	0.1	-0.17	-0.95	-1.04	0	0	0	0	0	0
4/11/2024 21:27	66502	SMAN_T2	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
4/11/2024 21:27	12602	MACA_T1	0	0	0	0	0	0	-1.54	-0.33	0	0	0	0	0	0
4/11/2024 21:27	27301	PARR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 21:27	44202	POIN_T2	0	0	0	0	0	0	-0.75	-0.72	1	1	0	1200	1200	0
4/11/2024 21:27	67801	WLAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 21:27	50506	MECH_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/11/2024 21:27	67605	WARW_T1	25	39	14	0.62	0.67	0.05	-1.24	-1.25	0	0	0	0	0	0
4/11/2024 21:27	67802	WLAN_T1	18	14	-4	0.15	0.15	0	0	0	0	0	0	0	0	0
4/11/2024 21:27	59101	WALK_T2	64	63	-1	0.64	0.56	-0.08	-0.67	-0.69	0	0	0	0	0	0
4/11/2024 21:27	66503	SMAN_T2	4	0	-4	0.13	0	-0.13	0.38	0.36	0	0	0	0	0	0
4/11/2024 21:27	50502	MECH_T1	1	1	0	3	3	0	0	0	0	0	0	0	0	0
4/11/2024 21:27	67505	WEWI_T1	0	0	0	0	0	0	-0.23	-0.18	1	1	0	900	900	0
4/11/2024 21:27	66505	SMAN_T2	3	3	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
4/11/2024 21:27	50504	MECH_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/11/2024 21:27	67703	WERN_T2	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
4/11/2024 21:27	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 21:27	27302	PARR_T1	0	2	2	0	0.1	0.1	0.01	0.01	0	0	0	0	0	0
4/11/2024 21:27	67803	WLAN_T1	159	36	-123	0.14	0.11	-0.03	-1.82	-1.82	0	0	0	0	0	0
4/11/2024 21:27	67805	WLAN_T1	519	508	-11	0.49	0.42	-0.07	-1.48	-1.48	0	0	0	0	0	0
4/11/2024 21:27	65202	PRIN_T1	1	0	-1	4.4	0	-4.4	0	0	0	0	0	0	0	0
4/11/2024 21:27	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/11/2024 21:27	50501	MECH_T1	4	4	0	1.63	1.65	0.02	0.29	0.13	0	0	0	0	0	0
4/11/2024 21:27	64702	LITI_T2	0	0	0	0	0	0	-0.71	-0.75	0	0	0	0	0	0
4/11/2024 21:27	59102	WALK_T2	66	42	-24	0.35	0.17	-0.18	0	0	0	0	0	0	0	0
4/11/2024 21:27	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
4/11/2024 21:27	65205	PRIN_T1	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
4/11/2024 21:27	63306	GREE_T1	0	0	0	0	0	0	-1.42	-1.48	1	1	0	900	900	0
4/11/2024 21:28	66001	RHEE_T2	0	0	0	0	0	0	-0.72	-0.74	1	1	0	900	900	0
4/11/2024 21:28	47102	MARL_T2	12	3	-9	0.17	0.17	0	0	0	0	0	0	0	0	0
4/11/2024 21:28	67703	WERN_T2	0	0	0	0	0	0	1.28	1.28	0	0	0	0	0	0
4/11/2024 21:28	66503	SMAN_T2	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/11/2024 21:28	67804	WLAN_T1	67	58	-9	0.14	0.13	-0.01	-1.14	-1.14	0	0	0	0	0	0
4/11/2024 21:28	25503	MADI_T1	126	114	-12	0.29	0.22	-0.07	-1.04	-1.07	0	0	0	0	0	0
4/11/2024 21:28	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
4/11/2024 21:28	44502	HAMI_T2	1	1	0	3.5	3.2	-0.3	-0.98	-0.94	0	0	0	0	0	0
4/11/2024 21:28	67801	WLAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 21:28	67802	WLAN_T1	18	14	-4	0.15	0.15	0	-0.24	-0.25	0	0	0	0	0	0
4/11/2024 21:28	64203	KINZ_T1	142	149	7	0.28	0.25	-0.03	0.25	0.36	0	0	0	0	0	0
4/11/2024 21:28	47103	MARL_T2	18	2	-16	0.13	0.1	-0.03	-0.59	-0.64	0	0	0	0	0	0
4/11/2024 21:28	64201	KINZ_T1	51	47	-4	0.39	0.34	-0.05	0	0	0	0	0	0	0	0
4/11/2024 21:28	45702	LIND_T2	1	1	0	0.5	0.8	0.3	-0.6	-0.59	0	0	0	0	0	0
4/11/2024 21:28	66703	STRA_T1	7	6	-1	0.39	0.37	-0.02	-0.41	-0.42	0	0	0	0	0	0
4/11/2024 21:28	14502	SCHO_T1	1	1	0	0.3	0.2	-0.1	0.32	0.3	0	0	0	0	0	0
4/11/2024 21:28	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:28	40201	BEGA_T2	21	26	5	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
4/11/2024 21:28	67805	WLAN_T1	519	508	-11	0.49	0.42	-0.07	0	0	0	0	0	0	0	0
4/11/2024 21:28	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/11/2024 21:28	66505	SMAN_T2	3	3	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
4/11/2024 21:28	61102	BERK_T5	0	0	0	0	0	0	0.5	0.52	1	1	0	300	300	0
4/11/2024 21:28	64204	KINZ_T1	48	46	-2	0.63	0.58	-0.05	0	0	0	0	0	0	0	0
4/11/2024 21:28	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 21:28	67803	WLAN_T1	159	36	-123	0.14	0.11	-0.03	-0.91	-0.91	0	0	0	0	0	0
4/11/2024 21:28	61101	BERK_T5	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
4/11/2024 21:28	66502	SMAN_T2	0	0	0	0	0	0	-0.27	-0.33	0	0	0	0	0	0
4/11/2024 21:28	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:28	65702	RVIL_T2	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
4/11/2024 21:28	64202	KINZ_T1	74	76	2	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
4/11/2024 21:29	61301	EARL_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
4/11/2024 21:29	41305	FISH_T1	21	5	-16	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
4/11/2024 21:29	66505	SMAN_T2	3	3	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
4/11/2024 21:29	49804	UNIV_T1	1	1	0	0.4	0.3	-0.1	0.52	0.49	0	0	0	0	0	0
4/11/2024 21:29	45702	LIND_T2	1	1	0	0.5	0.8	0.3	-0.6	-0.59	0	0	0	0	0	0
4/11/2024 21:29	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:29	57303	MOAL_T2	1	1	0	6.1	6.6	0.5	0	0	0	0	0	0	0	0
4/11/2024 21:29	67401	WAKE_T2	316	369	53	0.46	0.47	0.01	0	0	0	0	0	0	0	0
4/11/2024 21:29	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/11/2024 21:29	57306	MOAL_T2	0	0	0	0	0	0	-3.26	-3.27	1	1	0	1200	1200	0
4/11/2024 21:29	66502	SMAN_T2	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
4/11/2024 21:29	47103	MARL_T2	18	2	-16	0.13	0.1	-0.03	-0.59	-0.64	0	0	0	0	0	0
4/11/2024 21:29	47102	MARL_T2	12	3	-9	0.17	0.17	0	0	0	0	0	0	0	0	0
4/11/2024 21:29	20401	ASHF_T2	3	2	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/11/2024 21:29	62605	ENGL_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
4/11/2024 21:29	20403	ASHF_T2	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
4/11/2024 21:29	61506	EPET_T2	105	0	-105	0.2	0	-0.2	-1	-1	1	1	0	900	900	0
4/11/2024 21:29	67402	WAKE_T2	21	62	41	0.13	0.15	0.02	0.16	0.17	0	0	0	0	0	0
4/11/2024 21:29	57304	MOAL_T2	62	63	1	0.49	0.5	0.01	0	0	0	0	0	0	0	0
4/11/2024 21:29	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/11/2024 21:29	40802	EXCH_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
4/11/2024 21:29	62606	ENGL_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/11/2024 21:29	66503	SMAN_T2	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/11/2024 21:29	41301	FISH_T1	111	41	-70	0.22	0.24	0.02	-0.04	-0.06	0	0	0	0	0	0
4/11/2024 21:29	57301	MOAL_T2	3	3	0	0.67	0.27	-0.4	0	0	0	0	0	0	0	0
4/11/2024 21:30	40201	BEGA_T2	17	32	15	0.19	0.3	0.11	0	0	0	0	0	0	0	0
4/11/2024 21:30	67805	WLAN_T1	459	546	87	0.33	0.48	0.15	0	0	0	0	0	0	0	0
4/11/2024 21:30	40101	HUNT_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
4/11/2024 21:30	67802	WLAN_T1	1	15	14	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/11/2024 21:30	61302	EARL_T1	0	0	0	0	0	0	-0.28	0.07	2	1	-1	1800	1200	-600
4/11/2024 21:30	67804	WLAN_T1	6	114	108	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/11/2024 21:30	67803	WLAN_T1	4	199	195	0.1	0.13	0.03	-1.82	-1.82	0	0	0	0	0	0
4/11/2024 21:30	62602	ENGL_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
4/11/2024 21:30	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:30	67801	WLAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 21:30	65901	SAKR_T2	1	1	0	9.4	9.7	0.3	-1.12	-1.13	1	1	0	900	900	0
4/11/2024 21:30	61102	BERK_T5	0	0	0	0	0	0	0.5	0.52	1	1	0	300	300	0
4/11/2024 21:30	41502	FAIR_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
4/11/2024 21:31	67801	WLAN_T1	0	3	3	0	0.1	0.1	1.02	1.01	0	0	0	0	0	0
4/11/2024 21:31	61102	BERK_T5	0	0	0	0	0	0	0.5	0.52	1	1	0	300	300	0
4/11/2024 21:31	67805	WLAN_T1	459	546	87	0.33	0.48	0.15	0	0	0	0	0	0	0	0
4/11/2024 21:31	40201	BEGA_T2	17	32	15	0.19	0.3	0.11	0	0	0	0	0	0	0	0
4/11/2024 21:31	67802	WLAN_T1	1	15	14	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/11/2024 21:31	41902	REED_T1	0	0	0	0	0	0	1.03	1.02	0	0	0	0	0	0
4/11/2024 21:31	41901	REED_T1	1	9	8	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
4/11/2024 21:31	67803	WLAN_T1	4	199	195	0.1	0.13	0.03	-1.82	-1.82	0	0	0	0	0	0
4/11/2024 21:31	61101	BERK_T5	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
4/11/2024 21:31	67804	WLAN_T1	6	114	108	0.1	0.14	0.04	-2.28	-2.28	0	0	0	0	0	0
4/11/2024 21:31	60903	DONG_T2	0	0	0	0	0	0	0.54	0.58	1	1	0	600	600	0
4/11/2024 21:32	67804	WLAN_T1	6	114	108	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/11/2024 21:32	66901	SHIL_T2	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
4/11/2024 21:32	66505	SMAN_T2	3	3	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/11/2024 21:32	67805	WLAN_T1	459	546	87	0.33	0.48	0.15	0	0	0	0	0	0	0	0
4/11/2024 21:32	67803	WLAN_T1	4	199	195	0.1	0.13	0.03	-0.91	-0.91	0	0	0	0	0	0
4/11/2024 21:32	60501	NMAN_T2	3	3	0	4.83	5.37	0.54	0	0	0	0	0	0	0	0
4/11/2024 21:32	67801	WLAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 21:32	66502	SMAN_T2	0	0	0	0	0	0	-0.27	-0.33	0	0	0	0	0	0
4/11/2024 21:32	67802	WLAN_T1	1	15	14	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/11/2024 21:32	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:32	60502	NMAN_T2	0	0	0	0	0	0	-0.46	-0.42	0	0	0	0	0	0
4/11/2024 21:33	64501	LAVI_T1	0	0	0	0	0	0	-0.24	-0.19	0	0	0	0	0	0
4/11/2024 21:33	41902	REED_T1	0	0	0	0	0	0	1.03	1.02	0	0	0	0	0	0
4/11/2024 21:33	42901	MIDD_T2	0	27	27	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 21:33	40201	BEGA_T2	17	32	15	0.19	0.3	0.11	0	0	0	0	0	0	0	0
4/11/2024 21:33	42903	MIDD_T2	2	2	0	1.55	1.8	0.25	0	0	0	0	0	0	0	0
4/11/2024 21:33	41901	REED_T1	1	9	8	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
4/11/2024 21:33	42902	MIDD_T2	0	33	33	0	0.19	0.19	-0.46	-0.49	0	0	0	0	0	0
4/11/2024 21:34	67805	WLAN_T1	459	546	87	0.33	0.48	0.15	0	0	0	0	0	0	0	0
4/11/2024 21:34	67804	WLAN_T1	6	114	108	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/11/2024 21:34	42903	MIDD_T2	2	2	0	1.55	1.8	0.25	0	0	0	0	0	0	0	0
4/11/2024 21:34	45501	DERR_T2	0	0	0	0	0	0	-0.36	-0.35	2	2	0	1800	1800	0
4/11/2024 21:34	67803	WLAN_T1	4	199	195	0.1	0.13	0.03	-0.91	-0.91	0	0	0	0	0	0
4/11/2024 21:34	42901	MIDD_T2	0	27	27	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 21:34	67501	WEWI_T1	0	0	0	0	0	0	-0.59	-0.65	0	0	0	0	0	0
4/11/2024 21:34	67802	WLAN_T1	1	15	14	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/11/2024 21:34	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:34	42902	MIDD_T2	0	33	33	0	0.19	0.19	-0.46	-0.49	0	0	0	0	0	0
4/11/2024 21:34	67801	WLAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 21:35	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
4/11/2024 21:35	13502	MCMI_T1	3	8	5	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/11/2024 21:35	28602	BLYT_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/11/2024 21:35	28601	BLYT_T2	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
4/11/2024 21:35	28604	BLYT_T2	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
4/11/2024 21:35	51603	DUKE_T1	2	2	0	0.1	0.4	0.3	-0.42	-0.4	0	0	0	0	0	0
4/11/2024 21:35	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/11/2024 21:35	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/11/2024 21:35	66505	SMAN_T2	3	3	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/11/2024 21:35	66502	SMAN_T2	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
4/11/2024 21:36	28403	HART_T2	0	0	0	0	0	0	-1	-1.01	1	1	0	900	900	0
4/11/2024 21:36	49804	UNIV_T1	1	1	0	0.3	0.3	0	0.52	0.49	0	0	0	0	0	0
4/11/2024 21:36	67201	TEHI_T1	61	35	-26	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
4/11/2024 21:36	40601	PIGR_T1	147	242	95	0.23	0.52	0.29	0	0	0	0	0	0	0	0
4/11/2024 21:36	66505	SMAN_T2	3	3	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/11/2024 21:36	67203	TEHI_T1	0	0	0	0	0	0	2.22	2	1	1	0	600	600	0
4/11/2024 21:36	40602	PIGR_T1	0	0	0	0	0	0	-0.11	-0.15	2	2	0	1200	1200	0
4/11/2024 21:36	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/11/2024 21:36	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:36	66502	SMAN_T2	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
4/11/2024 21:37	61704	ELIZ_T2	5	5	0	0.48	0.84	0.36	0	0	0	0	0	0	0	0
4/11/2024 21:37	43302	WATS_T2	4	5	1	1.08	1.24	0.16	0	0	0	0	0	0	0	0
4/11/2024 21:37	43304	WATS_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
4/11/2024 21:37	61702	ELIZ_T2	0	0	0	0	0	0	-0.97	-0.99	1	1	0	300	300	0
4/11/2024 21:37	66703	STRA_T1	5	13	8	0.28	0.38	0.1	-0.41	-0.42	0	0	0	0	0	0
4/11/2024 21:37	45402	WBLO_T2	65	109	44	0.34	0.38	0.04	-1.82	-1.8	0	0	0	0	0	0
4/11/2024 21:37	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 21:37	61102	BERK_T5	0	0	0	0	0	0	0.5	0.52	1	1	0	300	300	0
4/11/2024 21:38	23001	SAJO_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
4/11/2024 21:38	16102	BING_T2	0	0	0	0	0	0	-0.45	-0.48	1	1	0	1200	1200	0
4/11/2024 21:38	67402	WAKE_T2	35	78	43	0.14	0.16	0.02	0	0	0	0	0	0	0	0
4/11/2024 21:38	65502	MOJO_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
4/11/2024 21:38	41504	FAIR_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
4/11/2024 21:38	27603	PIRI_T2	0	0	0	0	0	0	-0.84	-0.86	2	2	0	1800	1800	0
4/11/2024 21:38	67401	WAKE_T2	288	429	141	0.43	0.49	0.06	-0.97	-0.95	0	0	0	0	0	0
4/11/2024 21:39	67804	WLAN_T1	6	114	108	0.1	0.14	0.04	-1.14	-1.13	0	0	0	0	0	0
4/11/2024 21:39	67805	WLAN_T1	459	546	87	0.33	0.48	0.15	0	0	0	0	0	0	0	0
4/11/2024 21:39	67801	WLAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 21:39	67803	WLAN_T1	4	199	195	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/11/2024 21:39	14502	SOHO_T1	1	1	0	0.4	0.2	-0.2	0.3	0.27	0	0	0	0	0	0
4/11/2024 21:39	64801	MONE_T2	43	71	28	0.24	0.38	0.14	0	0	0	0	0	0	0	0
4/11/2024 21:39	67802	WLAN_T1	1	15	14	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/11/2024 21:39	15103	UPHA_T2	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
4/11/2024 21:39	64802	MONE_T2	84	233	149	0.19	0.26	0.07	0.17	0.16	0	0	0	0	0	0
4/11/2024 21:40	67805	WLAN_T1	459	546	87	0.33	0.48	0.15	-1.48	-1.48	0	0	0	0	0	0
4/11/2024 21:40	67803	WLAN_T1	4	199	195	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/11/2024 21:40	67804	WLAN_T1	6	114	108	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/11/2024 21:40	67801	WLAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 21:40	67802	WLAN_T1	1	15	14	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/11/2024 21:41	45402	WBLO_T2	65	109	44	0.34	0.38	0.04	-0.9	-0.93	0	0	0	0	0	0
4/11/2024 21:42	67801	WLAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 21:42	24901	WHHA_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
4/11/2024 21:42	67803	WLAN_T1	4	199	195	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/11/2024 21:42	24902	WHHA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:42	67804	WLAN_T1	6	114	108	0.1	0.14	0.04	-1.14	-1.13	0	0	0	0	0	0
4/11/2024 21:42	67802	WLAN_T1	1	15	14	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/11/2024 21:42	67805	WLAN_T1	459	546	87	0.33	0.48	0.15	0	0	0	0	0	0	0	0
4/11/2024 21:52	52502	PROG_T2	0	0	0	0	0	0	0.25	0.18	0	0	0	0	0	0
4/11/2024 21:54	51108	CARL_T1	0	0	0	0	0	0	-0.56	-0.55	0	0	0	0	0	0
4/11/2024 21:54	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/11/2024 21:54	51102	CARL_T1	91	87	-4	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
4/11/2024 22:21	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/11/2024 23:13	13103	NHAM_T2	0	0	0	0	0	0	-1.81	-1.83	1	1	0	600	600	0
4/12/2024 7:40	15001	BLMO_T1	4	3	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/12/2024 7:46	12006	HATF_T1	0	0	0	0	0	0	0.54	0.61	1	1	0	1200	1200	0
4/12/2024 7:57	50303	CEDA_T2	0	0	0	0	0	0	-1.27	-0.03	0	0	0	0	0	0
4/12/2024 7:59	56603	HAMP_T1	0	0	0	0	0	0	-1.23	-1.23	0	0	0	0	0	0
4/12/2024 7:59	62605	ENGL_T1	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
4/12/2024 8:00	64305	LINC_T1	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
4/12/2024 8:02	65603	QVIL_T2	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
4/12/2024 8:05	65601	QVIL_T2	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
4/12/2024 8:05	66504	SMAN_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
4/12/2024 8:11	62101	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 8:11	61701	ELIZ_T1	1	1	0	5.3	6	0.7	0	0	0	0	0	0	0	0
4/12/2024 8:11	62102	ELAN_T1	0	0	0	0	0	0	0.61	0.55	0	0	0	0	0	0
4/12/2024 8:11	61703	ELIZ_T1	0	0	0	0	0	0	-2.67	-2.61	2	2	0	2100	2100	0
4/12/2024 8:12	62101	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 8:12	62102	ELAN_T1	0	0	0	0	0	0	0.61	0.55	0	0	0	0	0	0
4/12/2024 8:13	62102	ELAN_T1	0	0	0	0	0	0	1.21	1.1	0	0	0	0	0	0
4/12/2024 8:13	61701	ELIZ_T1	1	1	0	5.3	6	0.7	0	0	0	0	0	0	0	0
4/12/2024 8:13	62101	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 8:13	61703	ELIZ_T1	0	0	0	0	0	0	-2.67	-2.61	2	2	0	2100	2100	0
4/12/2024 8:14	62101	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 8:14	62102	ELAN_T1	0	0	0	0	0	0	0.61	0.55	0	0	0	0	0	0
4/12/2024 8:15	62102	ELAN_T1	0	0	0	0	0	0	0.61	0.55	0	0	0	0	0	0
4/12/2024 8:15	62101	ELAN_T1	0	1	1	0	4.2	4.2	0	0	0	0	0	0	0	0
4/12/2024 8:18	67002	STHI_T2	0	0	0	0	0	0	0.63	0.67	0	0	0	0	0	0
4/12/2024 8:19	67002	STHI_T2	0	0	0	0	0	0	0.63	0.67	0	0	0	0	0	0
4/12/2024 8:20	67002	STHI_T2	0	0	0	0	0	0	1.26	1.34	0	0	0	0	0	0
4/12/2024 8:21	67002	STHI_T2	0	0	0	0	0	0	0.63	0.67	0	0	0	0	0	0
4/12/2024 8:25	67402	WAKE_T2	0	0	0	0	0	0	0.99	0.99	0	0	0	0	0	0
4/12/2024 8:29	28704	HAML_T2	1	1	0	0.4	0.3	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/12/2024 8:29	28703	HAML_T2	3	3	0	0.93	0.77	-0.16	0	0	0	0	0	0	0	0
4/12/2024 8:33	15203	SFAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 8:33	15204	SFAR_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
4/12/2024 8:35	67002	STHI_T2	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
4/12/2024 8:36	15204	SFAR_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
4/12/2024 8:36	67002	STHI_T2	0	0	0	0	0	0	1.34	1.39	0	0	0	0	0	0
4/12/2024 8:36	15203	SFAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 8:39	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 8:40	60901	DONG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 8:40	60902	DONG_T2	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
4/12/2024 8:41	62101	ELAN_T1	1	1	0	4.2	3.7	-0.5	0	0	0	0	0	0	0	0
4/12/2024 8:41	62105	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 8:41	62102	ELAN_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
4/12/2024 8:42	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 8:42	63804	HEMP_T1	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
4/12/2024 8:42	63803	HEMP_T1	0	5	5	0	0.14	0.14	0.08	0.09	0	0	0	0	0	0
4/12/2024 8:45	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
4/12/2024 8:45	63801	HEMP_T1	0	1	1	0	0.1	0.1	0.19	0.19	0	0	0	0	0	0
4/12/2024 8:45	63803	HEMP_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
4/12/2024 8:46	45702	LIND_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
4/12/2024 8:46	45701	LIND_T2	0	0	0	0	0	0	-0.94	-0.98	0	0	0	0	0	0
4/12/2024 8:48	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 8:51	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 8:54	24902	WHHA_T1	2	2	0	0.75	0.2	-0.55	0	0	0	0	0	0	0	0
4/12/2024 8:59	64702	LITI_T2	0	0	0	0	0	0	-1.42	-1.34	0	0	0	0	0	0
4/12/2024 9:00	64702	LITI_T2	0	0	0	0	0	0	-0.71	-0.67	0	0	0	0	0	0
4/12/2024 9:01	45702	LIND_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
4/12/2024 9:01	45701	LIND_T2	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
4/12/2024 9:02	45702	LIND_T2	1	1	0	1.1	1.1	0	-0.49	-0.51	0	0	0	0	0	0
4/12/2024 9:03	52501	PROG_T1	0	0	0	0	0	0	0.44	0.42	1	1	0	300	300	0
4/12/2024 9:04	45702	LIND_T2	1	1	0	1.1	1.1	0	-0.49	-0.51	0	0	0	0	0	0
4/12/2024 9:04	65603	QVIL_T2	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
4/12/2024 9:05	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.03	0	0	0	0	0	0
4/12/2024 9:06	52501	PROG_T1	0	0	0	0	0	0	0.44	0.42	1	1	0	300	300	0
4/12/2024 9:06	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.03	0	0	0	0	0	0
4/12/2024 9:07	67401	WAKE_T2	23	26	3	0.12	0.12	0	-0.86	-0.84	0	0	0	0	0	0
4/12/2024 9:07	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 9:07	65603	QVIL_T2	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
4/12/2024 9:11	40801	EXCH_T2	0	0	0	0	0	0	-0.99	-0.91	2	2	0	2400	2400	0
4/12/2024 9:14	40101	HUNT_T2	0	0	0	0	0	0	-0.19	-0.32	0	0	0	0	0	0
4/12/2024 9:17	44201	POIN_T1	0	0	0	0	0	0	-1.59	-1.45	2	2	0	2100	2100	0
4/12/2024 9:18	60501	NMAN_T2	3	3	0	3.8	4.8	1	0	0	0	0	0	0	0	0
4/12/2024 9:18	60502	NMAN_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
4/12/2024 9:19	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 9:20	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 9:20	59102	WALK_T2	25	41	16	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
4/12/2024 9:20	59101	WALK_T2	65	60	-5	0.92	0.57	-0.35	-0.54	-0.4	0	0	0	0	0	0
4/12/2024 9:21	44201	POIN_T1	0	0	0	0	0	0	-1.59	-1.45	2	2	0	2100	2100	0
4/12/2024 9:25	15001	BLMO_T1	4	3	-1	0.38	0.13	-0.25	0	0	0	0	0	0	0	0
4/12/2024 9:28	53903	HALI_T2	2	2	0	1.4	1.6	0.2	-0.21	-0.17	0	0	0	0	0	0
4/12/2024 9:28	53901	HALI_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
4/12/2024 9:28	53902	HALI_T2	1	2	1	5.8	5.9	0.1	0	0	0	0	0	0	0	0
4/12/2024 9:29	53902	HALI_T2	1	2	1	5.8	5.9	0.1	0	0	0	0	0	0	0	0
4/12/2024 9:29	53901	HALI_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
4/12/2024 9:29	53903	HALI_T2	2	2	0	1.4	1.6	0.2	-0.21	-0.17	0	0	0	0	0	0
4/12/2024 9:30	53903	HALI_T2	2	2	0	1.6	1.75	0.15	-0.21	-0.17	0	0	0	0	0	0
4/12/2024 9:30	53902	HALI_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
4/12/2024 9:30	53901	HALI_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
4/12/2024 9:32	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/12/2024 9:33	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/12/2024 9:39	20403	ASHF_T2	0	4	4	0	0.23	0.23	0.2	0.08	0	0	0	0	0	0
4/12/2024 9:43	50201	HARR_T3	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/12/2024 9:43	50103	HARR_T3	2	0	-2	0.2	0	-0.2	-1.05	-1.07	1	1	0	1200	1200	0
4/12/2024 9:43	50105	HARR_T3	8	8	0	6.21	6.04	-0.17	0	0	0	0	0	0	0	0
4/12/2024 9:51	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 9:52	67401	WAKE_T2	16	18	2	0.1	0.12	0.02	0	0	0	0	0	0	0	0
4/12/2024 9:52	67402	WAKE_T2	0	0	0	0	0	0	0.98	0.99	0	0	0	0	0	0
4/12/2024 9:58	52004	LING_T2	1	1	0	0.1	0.2	0.1	0.3	0.34	0	0	0	0	0	0
4/12/2024 9:58	52006	LING_T2	3	3	0	0.17	0.5	0.33	0	0	0	0	0	0	0	0
4/12/2024 9:58	52002	LING_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
4/12/2024 9:59	41801	GOCI_T2	0	27	27	0	0.15	0.15	0	0	0	0	0	0	0	0
4/12/2024 9:59	41802	GOCI_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/12/2024 10:00	51002	NHAR_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
4/12/2024 10:00	24102	EHAZ_T1	2	3	1	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
4/12/2024 10:00	59201	THOM_T1	5	5	0	0.18	0.12	-0.06	0	0	0	0	0	0	0	0
4/12/2024 10:00	16402	MOPO_T1	0	2	2	0	0	0	0.09	0.08	0	0	0	0	0	0
4/12/2024 10:00	51003	NHAR_T1	8	8	0	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
4/12/2024 10:00	53501	EVIL_T2	1	2	1	1	0.75	-0.25	-0.07	-0.15	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/12/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.99	0.96	0	0	0	0	0	0
4/12/2024 10:00	16102	BING_T2	0	8	8	0	0	0	-0.24	-0.13	1	1	0	1200	1200	0
4/12/2024 10:00	51004	NHAR_T1	11	14	3	0.94	1.03	0.09	0	0	0	0	0	0	0	0
4/12/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
4/12/2024 10:00	10805	CHHI_T2	1	1	0	8	8.3	0.3	-1.05	-0.96	1	1	0	600	600	0
4/12/2024 10:00	63802	HEMP_T1	0	26	26	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 10:00	57101	SPHI_T2	6	6	0	1.3	1.22	-0.08	0	0	0	0	0	0	0	0
4/12/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-0.97	-0.73	0	0	0	0	0	0
4/12/2024 10:00	54001	SDLE_T1	3	2	-1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/12/2024 10:00	10801	CHHI_T1	1	0	-1	0.1	0	-0.1	-1.64	-1.79	2	2	0	1800	1800	0
4/12/2024 10:00	65001	NEFF_T2	7	3	-4	0.1	0.1	0	-0.72	-0.68	1	1	0	1200	1200	0
4/12/2024 10:00	63801	HEMP_T1	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
4/12/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
4/12/2024 10:00	15103	UPHA_T2	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
4/12/2024 10:00	40901	JESH_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/12/2024 10:00	53903	HALI_T2	2	8	6	1.75	0.69	-1.06	-0.19	-0.15	0	0	0	0	0	0
4/12/2024 10:00	53901	HALI_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
4/12/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	0.16	0.22	2	2	0	1800	1800	0
4/12/2024 10:00	67803	WLAN_T1	0	0	0	0	0	0	-0.94	-0.92	0	0	0	0	0	0
4/12/2024 10:00	60501	NMAN_T2	3	3	0	4.77	4.7	-0.07	0	0	0	0	0	0	0	0
4/12/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	0.32	0.29	1	1	0	600	600	0
4/12/2024 10:00	65702	RVIL_T2	0	0	0	0	0	0	-0.98	-0.98	1	1	0	600	600	0
4/12/2024 10:00	57104	SPHI_T2	1	2	1	8.9	0.6	-8.3	-0.16	-0.16	0	0	0	0	0	0
4/12/2024 10:00	41801	GOCI_T2	1	28	27	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/12/2024 10:00	66303	MCGO_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/12/2024 10:00	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 10:00	59101	WALK_T2	70	69	-1	0.79	0.59	-0.2	0	0	0	0	0	0	0	0
4/12/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
4/12/2024 10:00	67401	WAKE_T2	12	0	-12	0.12	0	-0.12	0	0	0	0	0	0	0	0
4/12/2024 10:00	14204	EALL_T2	0	1	1	0	3.7	3.7	-0.74	-0.63	0	0	0	0	0	0
4/12/2024 10:00	40201	BEGA_T2	7	2	-5	0.41	0.45	0.04	0	0	0	0	0	0	0	0
4/12/2024 10:00	59102	WALK_T2	50	26	-24	0.18	0.17	-0.01	0.38	0.37	0	0	0	0	0	0
4/12/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
4/12/2024 10:00	42902	MIDD_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/12/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.06	0.12	0	0	0	0	0	0
4/12/2024 10:00	65603	QVIL_T2	0	0	0	0	0	0	0.49	0.61	0	0	0	0	0	0
4/12/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
4/12/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.52	-0.56	0	0	0	0	0	0
4/12/2024 10:00	41802	GOCI_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/12/2024 10:00	24105	EHAZ_T1	4	4	0	6.05	6.03	-0.02	-0.75	-0.76	1	1	0	1200	1200	0
4/12/2024 10:00	53902	HALI_T2	1	3	2	6	2.33	-3.67	0	0	0	0	0	0	0	0
4/12/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.5	-0.57	1	1	0	1200	1200	0
4/12/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	-0.1	-0.09	1	1	0	600	600	0
4/12/2024 10:00	60803	BUCK_T1	14	11	-3	0.29	0.15	-0.14	0	0	0	0	0	0	0	0
4/12/2024 10:00	66302	MCGO_T2	311	388	77	0.27	0.32	0.05	-1.17	-1.16	1	1	0	600	600	0
4/12/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.38	0.43	0	0	0	0	0	0
4/12/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.29	-0.22	1	1	0	600	600	0
4/12/2024 10:00	61102	BERK_T5	0	0	0	0	0	0	0.77	0.78	1	1	0	300	300	0
4/12/2024 10:00	45702	LIND_T2	1	1	0	0.6	0.8	0.2	-0.49	-0.49	0	0	0	0	0	0
4/12/2024 10:00	63803	HEMP_T1	0	16	16	0	0.16	0.16	0	0	0	0	0	0	0	0
4/12/2024 10:00	57002	WHIH_T2	0	0	0	0	0	0	-1.47	-1.5	1	1	0	1200	1200	0
4/12/2024 10:00	42903	MIDD_T2	2	2	0	1	1.6	0.6	0.34	0.06	0	0	0	0	0	0
4/12/2024 10:00	63306	GREE_T1	0	0	0	0	0	0	-1.5	-1.49	1	1	0	900	900	0
4/12/2024 10:00	63804	HEMP_T1	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
4/12/2024 10:00	65003	NEFF_T2	4	4	0	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
4/12/2024 10:00	58803	COCO_T1	1	1	0	3	3.2	0.2	0	0	0	0	0	0	0	0
4/12/2024 10:00	57106	SPHI_T2	3	3	0	1.57	1.6	0.03	0	0	0	0	0	0	0	0
4/12/2024 10:00	59202	THOM_T1	171	143	-28	0.19	0.19	0	0	0	0	0	0	0	0	0
4/12/2024 10:00	63305	GREE_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/12/2024 10:00	65601	QVIL_T2	0	0	0	0	0	0	-0.17	-0.12	0	0	0	0	0	0
4/12/2024 10:00	45602	WOOL_T1	1	2	1	0.1	0.25	0.15	0.9	0.88	0	0	0	0	0	0
4/12/2024 10:06	60501	NMAN_T2	3	3	0	4.77	4.7	-0.07	0	0	0	0	0	0	0	0
4/12/2024 10:06	60502	NMAN_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
4/12/2024 10:06	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 10:06	45902	AUBU_T1	0	0	0	0	0	0	-0.55	-0.45	1	1	0	600	600	0
4/12/2024 10:06	46203	DANV_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
4/12/2024 10:06	25603	ARRO_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
4/12/2024 10:06	46206	DANV_T2	0	0	0	0	0	0	2.34	2.49	1	1	0	1200	1200	0
4/12/2024 10:07	53802	MBRG_T2	0	0	0	0	0	0	0.88	0.8	0	0	0	0	0	0
4/12/2024 10:07	46004	BERW_T2	0	0	0	0	0	0	-0.74	-0.66	0	0	0	0	0	0
4/12/2024 10:07	50502	MECH_T1	1	1	0	2.6	2.5	-0.1	0	0	0	0	0	0	0	0
4/12/2024 10:07	22102	EDEL_T1	0	0	0	0	0	0	-0.83	-0.36	1	1	0	1200	1200	0
4/12/2024 10:07	50501	MECH_T1	4	4	0	1.33	1.3	-0.03	0	0	0	0	0	0	0	0
4/12/2024 10:07	56504	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/12/2024 10:07	64801	MONE_T2	5	1	-4	0.22	0.4	0.18	0.25	0.24	0	0	0	0	0	0
4/12/2024 10:07	65702	RVIL_T2	0	0	0	0	0	0	-0.98	-0.98	1	1	0	600	600	0
4/12/2024 10:07	48302	ORWI_T2	2	2	0	1.7	1.75	0.05	0	0.03	0	0	0	0	0	0
4/12/2024 10:07	67603	WARW_T1	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
4/12/2024 10:07	50505	MECH_T1	0	0	0	0	0	0	-0.86	-0.85	0	0	0	0	0	0
4/12/2024 10:07	12505	MITR_T2	0	0	0	0	0	0	1.19	1.28	0	0	0	0	0	0
4/12/2024 10:07	58102	NEKI_T1	1	1	0	0.8	0.8	0	0.13	0.18	0	0	0	0	0	0
4/12/2024 10:07	66503	SMAN_T2	0	0	0	0	0	0	0.38	0.34	0	0	0	0	0	0
4/12/2024 10:07	44502	HAMI_T2	1	1	0	2.9	2.8	-0.1	0	0	0	0	0	0	0	0
4/12/2024 10:07	46001	BERW_T1	0	0	0	0	0	0	1.64	1.74	0	0	0	0	0	0
4/12/2024 10:07	47104	MARL_T1	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
4/12/2024 10:07	56501	ROCK_T2	2	2	0	0.7	0.7	0	-0.01	-0.01	0	0	0	0	0	0
4/12/2024 10:07	67605	WARW_T1	27	29	2	0.59	0.66	0.07	0	0	0	0	0	0	0	0
4/12/2024 10:07	12502	MITR_T2	1	1	0	6.7	6.5	-0.2	0	0	0	0	0	0	0	0
4/12/2024 10:07	44505	HAMI_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
4/12/2024 10:07	64802	MONE_T2	4	1	-3	0.1	0.1	0	0	0	0	0	0	0	0	0
4/12/2024 10:08	52001	LING_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
4/12/2024 10:08	67803	WLAN_T1	0	0	0	0	0	0	-0.92	-0.96	0	0	0	0	0	0
4/12/2024 10:08	67401	WAKE_T2	12	0	-12	0.12	0	-0.12	0	0	0	0	0	0	0	0
4/12/2024 10:08	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/12/2024 10:08	42302	MOWR_T2	0	0	0	0	0	0	1.07	1.07	0	0	0	0	0	0
4/12/2024 10:08	42701	AUGU_T1	1	2	1	1	0.65	-0.35	0	0	2	2	0	1800	1800	0
4/12/2024 10:08	67402	WAKE_T2	0	0	0	0	0	0	0.96	0.98	0	0	0	0	0	0
4/12/2024 10:09	65702	RVIL_T2	0	0	0	0	0	0	-0.98	-0.98	1	1	0	600	600	0
4/12/2024 10:09	42701	AUGU_T1	1	2	1	1	0.65	-0.35	0	0	4	4	0	3600	3600	0
4/12/2024 10:09	58402	MORO_T1	0	0	0	0	0	0	-0.26	-0.25	2	2	0	1500	1500	0
4/12/2024 10:09	67803	WLAN_T1	0	0	0	0	0	0	-0.92	-0.96	0	0	0	0	0	0
4/12/2024 10:09	58001	WCAR_T1	4	4	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/12/2024 10:09	58003	WCAR_T1	1	1	0	0.8	0.6	-0.2	0.04	0.05	1	1	0	600	600	0
4/12/2024 10:10	67803	WLAN_T1	0	0	0	0	0	0	-0.92	-0.96	0	0	0	0	0	0
4/12/2024 10:10	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 10:10	67401	WAKE_T2	12	0	-12	0.12	0	-0.12	-0.88	-0.87	0	0	0	0	0	0
4/12/2024 10:11	42701	AUGU_T1	1	2	1	1	0.65	-0.35	0	0	2	2	0	1800	1800	0
4/12/2024 10:12	63401	HONY_T1	0	0	0	0	0	0	1.01	0.88	0	0	0	0	0	0
4/12/2024 10:12	41801	GOCI_T2	1	28	27	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/12/2024 10:12	41802	GOCI_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/12/2024 10:13	24902	WHHA_T1	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
4/12/2024 10:14	63305	GREE_T1	1	0	0	0.2	0.2	0	-1.8	-1.78	1	1	0	900	900	0
4/12/2024 10:15	45702	LIND_T2	1	1	0	0.8	0.7	-0.1	-0.49	-0.47	0	0	0	0	0	0
4/12/2024 10:15	41802	GOCI_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/12/2024 10:15	41801	GOCI_T2	27	5	-22	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/12/2024 10:17	64305	LINC_T1	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
4/12/2024 10:19	52501	PROG_T1	0	0	0	0	0	0	0.9	0.76	2	2	0	600	600	0
4/12/2024 10:20	64802	MONE_T2	1	0	-1	0.1	0	-0.1	0.19	0.19	0	0	0	0	0	0
4/12/2024 10:20	64801	MONE_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/12/2024 10:21	52501	PROG_T1	0	0	0	0	0	0	0.45	0.38	1	1	0	300	300	0
4/12/2024 10:23	42201	SHEN_T2	0	0	0	0	0	0	-0.1	-0.09	1	1	0	600	600	0
4/12/2024 10:23	59101	WALK_T2	68	69	1	0.58	0.63	0.05	-0.67	-0.66	0	0	0	0	0	0
4/12/2024 10:23	59102	WALK_T2	25	44	19	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
4/12/2024 10:23	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/12/2024 10:24	51305	WIND_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/12/2024 10:24	59101	WALK_T2	68	69	1	0.58	0.63	0.05	-0.66	-0.72	0	0	0	0	0	0
4/12/2024 10:24	59102	WALK_T2	25	44	19	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
4/12/2024 10:24	51303	WIND_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/12/2024 10:25	46004	BERW_T2	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
4/12/2024 10:25	59102	WALK_T2	25	44	19	0.18	0.17	-0.01	0.37	0.38	0	0	0	0	0	0
4/12/2024 10:25	59101	WALK_T2	68	69	1	0.58	0.63	0.05	0	0	0	0	0	0	0	0
4/12/2024 10:27	62101	ELAN_T1	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
4/12/2024 10:27	62105	ELAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/12/2024 10:27	62104	ELAN_T1	0	0	0	0	0	0	0.39	0.43	2	2	0	1500	1500	0
4/12/2024 10:27	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/12/2024 10:28	52004	LING_T2	1	3	2	0.2	0.27	0.07	0.3	0.33	0	0	0	0	0	0
4/12/2024 10:28	52002	LING_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
4/12/2024 10:28	52006	LING_T2	3	3	0	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
4/12/2024 10:29	62105	ELAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/12/2024 10:29	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/12/2024 10:29	62101	ELAN_T1	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
4/12/2024 10:29	62104	ELAN_T1	0	0	0	0	0	0	0.39	0.43	2	2	0	1500	1500	0
4/12/2024 10:30	62106	ELAN_T1	0	0	0	0	0	0	0.93	0.89	0	0	0	0	0	0
4/12/2024 10:30	52006	LING_T2	3	3	0	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
4/12/2024 10:30	52002	LING_T2	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
4/12/2024 10:30	57306	MOAL_T2	0	0	0	0	0	0	-3.31	-3.3	1	1	0	1200	1200	0
4/12/2024 10:30	57303	MOAL_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
4/12/2024 10:30	52004	LING_T2	3	1	-2	0.27	0.1	-0.17	0.3	0.33	0	0	0	0	0	0
4/12/2024 10:30	42902	MIDD_T2	1	0	-1	0.4	0	-0.4	0.13	0.12	0	0	0	0	0	0
4/12/2024 10:30	62101	ELAN_T1	1	1	0	5.8	4.8	-1	0	0	0	0	0	0	0	0
4/12/2024 10:30	57304	MOAL_T2	52	22	-30	0.34	0.26	-0.08	0	0	0	0	0	0	0	0
4/12/2024 10:30	42903	MIDD_T2	2	2	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
4/12/2024 10:31	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 10:31	42903	MIDD_T2	2	2	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
4/12/2024 10:31	42902	MIDD_T2	1	0	-1	0.4	0	-0.4	0.13	0.12	0	0	0	0	0	0
4/12/2024 10:31	40302	TAMA_T3	28	29	1	0.45	0.5	0.05	0.33	0.36	0	0	0	0	0	0
4/12/2024 10:31	40303	TAMA_T3	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/12/2024 10:32	42902	MIDD_T2	1	0	-1	0.4	0	-0.4	0.13	0.12	0	0	0	0	0	0
4/12/2024 10:32	42903	MIDD_T2	2	2	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
4/12/2024 10:34	57306	MOAL_T2	0	0	0	0	0	0	-3.31	-3.3	1	1	0	1200	1200	0
4/12/2024 10:34	57304	MOAL_T2	52	22	-30	0.34	0.26	-0.08	0	0	0	0	0	0	0	0
4/12/2024 10:34	59001	MIFF_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/12/2024 10:34	65702	RVIL_T2	0	0	0	0	0	0	-0.98	-0.98	1	1	0	600	600	0
4/12/2024 10:34	57303	MOAL_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
4/12/2024 10:34	59003	MIFF_T1	0	0	0	0	0	0	0.65	0.71	0	0	0	0	0	0
4/12/2024 10:34	59002	MIFF_T1	1	5	4	0.1	0.22	0.12	0	0	0	0	0	0	0	0
4/12/2024 10:35	57304	MOAL_T2	52	22	-30	0.34	0.26	-0.08	0	0	0	0	0	0	0	0
4/12/2024 10:35	67502	WEWI_T2	0	0	0	0	0	0	-1.4	-1.38	1	1	0	900	900	0
4/12/2024 10:35	57306	MOAL_T2	0	0	0	0	0	0	-3.31	-3.3	1	1	0	1200	1200	0
4/12/2024 10:35	57303	MOAL_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
4/12/2024 10:36	26001	WDAM_T1	0	0	0	0	0	0	-0.82	-0.82	0	0	0	0	0	0
4/12/2024 10:37	67605	WARW_T1	21	29	8	0.57	0.54	-0.03	-1.2	-1.18	0	0	0	0	0	0
4/12/2024 10:38	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 10:38	67002	STHI_T2	0	0	0	0	0	0	0.67	0.62	0	0	0	0	0	0
4/12/2024 10:38	65702	RVIL_T2	0	0	0	0	0	0	-1.96	-1.98	2	2	0	1200	1200	0
4/12/2024 10:39	46203	DANV_T2	4	1	-3	0.2	0.1	-0.1	0.14	0.13	0	0	0	0	0	0
4/12/2024 10:40	67002	STHI_T2	0	0	0	0	0	0	0.67	0.62	0	0	0	0	0	0
4/12/2024 10:40	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 10:41	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 10:41	67002	STHI_T2	0	0	0	0	0	0	1.34	1.25	0	0	0	0	0	0
4/12/2024 10:42	67002	STHI_T2	0	0	0	0	0	0	2.69	2.5	0	0	0	0	0	0
4/12/2024 10:42	41301	FISH_T1	2	3	1	2.05	1.63	-0.42	-0.03	-0.01	0	0	0	0	0	0
4/12/2024 10:42	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 10:43	53901	HALI_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
4/12/2024 10:43	53902	HALI_T2	2	1	-1	3.4	6	2.6	0	0	0	0	0	0	0	0
4/12/2024 10:43	53903	HALI_T2	8	2	-6	0.69	1.6	0.91	-0.14	-0.19	0	0	0	0	0	0
4/12/2024 10:44	53902	HALI_T2	2	1	-1	3.4	6	2.6	0	0	0	0	0	0	0	0
4/12/2024 10:44	64702	LITI_T2	0	0	0	0	0	0	-0.65	-0.77	0	0	0	0	0	0
4/12/2024 10:44	53903	HALI_T2	8	2	-6	0.69	1.6	0.91	-0.14	-0.19	0	0	0	0	0	0
4/12/2024 10:44	46203	DANV_T2	4	1	-3	0.2	0.1	-0.1	0.14	0.13	0	0	0	0	0	0
4/12/2024 10:44	53901	HALI_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
4/12/2024 10:46	53901	HALI_T2	1	1	0	1.1	1	-0.1	-1.09	-1.1	0	0	0	0	0	0
4/12/2024 10:46	50502	MECH_T1	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
4/12/2024 10:46	53902	HALI_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
4/12/2024 10:46	50105	HARR_T3	8	8	0	6.21	6.11	-0.1	0	0	0	0	0	0	0	0
4/12/2024 10:46	50506	MECH_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/12/2024 10:46	50201	HARR_T3	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/12/2024 10:46	50103	HARR_T3	1	2	1	0.1	0.15	0.05	-1.07	-1.05	1	1	0	1200	1200	0
4/12/2024 10:46	50501	MECH_T1	4	4	0	1.33	1.33	0	0	0	0	0	0	0	0	0
4/12/2024 10:46	53903	HALI_T2	2	3	1	1.6	1	-0.6	0	0	0	0	0	0	0	0
4/12/2024 10:47	50501	MECH_T1	4	4	0	1.33	1.33	0	0	0	0	0	0	0	0	0
4/12/2024 10:47	50502	MECH_T1	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
4/12/2024 10:47	50506	MECH_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/12/2024 10:48	53901	HALI_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
4/12/2024 10:48	53902	HALI_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
4/12/2024 10:48	50502	MECH_T1	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
4/12/2024 10:48	50506	MECH_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/12/2024 10:48	53903	HALI_T2	2	3	1	1.6	1	-0.6	-0.14	-0.19	0	0	0	0	0	0
4/12/2024 10:48	50501	MECH_T1	4	4	0	1.33	1.33	0	0	0	0	0	0	0	0	0
4/12/2024 10:50	41301	FISH_T1	2	3	1	2.2	1.63	-0.57	-0.03	-0.01	0	0	0	0	0	0
4/12/2024 10:50	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 10:52	44601	SALE_T2	0	0	0	0	0	0	0.08	0.02	0	0	0	0	0	0
4/12/2024 10:52	67703	WERN_T2	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
4/12/2024 10:52	65901	SAKR_T2	1	1	0	9.5	9.4	-0.1	-1.33	-1.31	1	1	0	900	900	0
4/12/2024 10:53	45602	WOOL_T1	0	2	2	0	0.15	0.15	0.51	0.47	0	0	0	0	0	0
4/12/2024 10:53	12101	SALL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/12/2024 10:53	12102	SALL_T2	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
4/12/2024 10:54	10801	CHHI_T1	0	0	0	0	0	0	-0.78	-0.77	1	1	0	900	900	0
4/12/2024 10:54	45602	WOOL_T1	0	2	2	0	0.15	0.15	0.51	0.47	0	0	0	0	0	0
4/12/2024 10:57	46002	BERW_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	900	900	0
4/12/2024 10:57	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 10:59	63305	GREE_T1	0	1	1	0	0.2	0.2	-1.93	-1.91	1	1	0	900	900	0
4/12/2024 10:59	59301	MCAL_T1	10	8	-2	0.42	0.51	0.09	-1.54	-1.66	1	1	0	600	600	0
4/12/2024 11:00	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/12/2024 11:01	59302	MCAL_T1	0	1	1	0	0.2	0.2	-0.13	-0.18	1	1	0	600	600	0
4/12/2024 11:01	65503	MOJO_T2	0	0	0	0	0	0	-0.26	-1.3	1	1	0	900	900	0
4/12/2024 11:01	59301	MCAL_T1	7	8	1	0.54	0.48	-0.06	0	0	0	0	0	0	0	0
4/12/2024 11:07	67502	WEWI_T2	0	1	1	0	0.2	0.2	-1.38	-1.32	1	1	0	900	900	0
4/12/2024 11:07	67605	WARW_T1	29	29	0	0.54	0.76	0.22	-1.24	-1.26	0	0	0	0	0	0
4/12/2024 11:07	67605	WARW_T1	29	29	0	0.54	0.76	0.22	-1.24	-1.26	0	0	0	0	0	0
4/12/2024 11:07	67605	WARW_T1	29	29	0	0.54	0.76	0.22	-1.24	-1.26	0	0	0	0	0	0
4/12/2024 11:07	67605	WARW_T1	29	29	0	0.54	0.76	0.22	-1.24	-1.26	0	0	0	0	0	0
4/12/2024 11:08	67502	WEWI_T2	0	1	1	0	0.2	0.2	-1.32	-1.37	1	1	0	900	900	0
4/12/2024 11:10	67703	WERN_T2	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
4/12/2024 11:12	67605	WARW_T1	29	29	0	0.54	0.76	0.22	-1.26	-1.26	0	0	0	0	0	0
4/12/2024 11:13	61506	EPET_T2	0	0	0	0	0	0	-0.95	-0.99	1	1	0	900	900	0
4/12/2024 11:16	59002	MIFF_T1	6	6	0	0.18	0.42	0.24	0	0	0	0	0	0	0	0
4/12/2024 11:16	59001	MIFF_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 11:16	59003	MIFF_T1	0	1	1	0	0.2	0.2	0.57	0.62	0	0	0	0	0	0
4/12/2024 11:16	12807	MICK_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/12/2024 11:16	12801	MICK_T1	0	0	0	0	0	0	-0.09	-0.03	1	1	0	600	600	0
4/12/2024 11:18	50501	MECH_T1	4	4	0	1.1	0.95	-0.15	0	0	0	0	0	0	0	0
4/12/2024 11:18	50506	MECH_T1	0	0	0	0	0	0	-0.01	0.59	0	0	0	0	0	0
4/12/2024 11:18	50502	MECH_T1	1	1	0	2.4	2.1	-0.3	0	0	0	0	0	0	0	0
4/12/2024 11:18	13501	MCMI_T1	0	0	0	0	0	0	0.09	0.13	0	0	0	0	0	0
4/12/2024 11:19	13503	MCMI_T2	1	0	-1	0.5	0	-0.5	-0.01	-0.04	0	0	0	0	0	0
4/12/2024 11:19	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
4/12/2024 11:20	57304	MOAL_T2	4	16	12	0.2	0.21	0.01	0	0	0	0	0	0	0	0
4/12/2024 11:20	14603	SWHI_T1	0	0	0	0	0	0	-1.09	-1.1	1	1	0	600	600	0
4/12/2024 11:20	57306	MOAL_T2	1	1	0	0.1	0.2	0.1	-3.29	-3.28	1	1	0	1200	1200	0
4/12/2024 11:20	57303	MOAL_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
4/12/2024 11:26	45901	AUBU_T1	0	0	0	0	0	0	1.97	2.01	0	0	0	0	0	0
4/12/2024 11:29	45701	LIND_T2	0	0	0	0	0	0	-1.02	-1	0	0	0	0	0	0
4/12/2024 11:29	45702	LIND_T2	1	19	18	1	0.26	-0.74	-0.57	-0.56	0	0	0	0	0	0
4/12/2024 11:32	65503	MOJO_T2	0	0	0	0	0	0	-1.28	-1.31	1	1	0	900	900	0
4/12/2024 11:33	45701	LIND_T2	0	0	0	0	0	0	-1.02	-1	0	0	0	0	0	0
4/12/2024 11:33	45702	LIND_T2	17	86	69	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
4/12/2024 11:34	65207	PRIN_T4	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
4/12/2024 11:40	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.66	1	1	0	600	600	0
4/12/2024 11:43	45802	HEGI_T2	1	24	23	0.1	0.29	0.19	1.4	1.4	0	0	0	0	0	0
4/12/2024 11:44	57002	WHHI_T2	0	0	0	0	0	0	-1.46	-1.42	1	1	0	1200	1200	0
4/12/2024 11:44	45902	AUBU_T1	0	0	0	0	0	0	-1.22	-1.32	2	2	0	1200	1200	0
4/12/2024 11:44	61503	EPET_T1	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
4/12/2024 11:45	45802	HEGI_T2	23	15	-8	0.51	0.1	-0.41	1.4	1.4	0	0	0	0	0	0
4/12/2024 11:46	58402	MORO_T1	0	0	0	0	0	0	-0.29	-0.29	2	2	0	1500	1500	0
4/12/2024 11:46	46903	MNTG_T2	1	2	1	0.1	0.2	0.1	0.01	0.01	1	1	0	600	600	0
4/12/2024 11:48	45702	LIND_T2	15	86	71	0.28	0.25	-0.03	-0.56	-0.55	0	0	0	0	0	0
4/12/2024 11:48	58402	MORO_T1	0	0	0	0	0	0	-0.29	-0.29	2	2	0	1500	1500	0
4/12/2024 11:49	55002	NEWP_T1	7	7	0	1.04	0.87	-0.17	-0.25	-0.26	0	0	0	0	0	0
4/12/2024 11:49	59201	THOM_T1	8	8	0	0.13	0.14	0.01	0	0	0	0	0	0	0	0
4/12/2024 11:49	45702	LIND_T2	15	86	71	0.28	0.25	-0.03	-0.56	-0.55	0	0	0	0	0	0
4/12/2024 11:49	59202	THOM_T1	105	130	25	0.16	0.16	0	0	0	0	0	0	0	0	0
4/12/2024 11:50	55002	NEWP_T1	7	7	0	1.04	0.87	-0.17	-0.5	-0.52	0	0	0	0	0	0
4/12/2024 11:51	43201	MVIL_T2	2	1	-1	0.3	0.2	-0.1	-0.25	-0.31	0	0	0	0	0	0
4/12/2024 11:51	43202	MVIL_T2	166	113	-53	0.69	0.84	0.15	0	0	0	0	0	0	0	0
4/12/2024 11:53	15001	BLMO_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/12/2024 11:57	15001	BLMO_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/12/2024 12:01	62601	ENGL_T1	0	0	0	0	0	0	-0.19	-0.1	0	0	0	0	0	0
4/12/2024 12:03	64101	REFR_T1	0	0	0	0	0	0	-0.61	-0.65	0	0	0	0	0	0
4/12/2024 12:04	64101	REFR_T1	0	0	0	0	0	0	-0.61	-0.65	0	0	0	0	0	0
4/12/2024 12:05	66502	SMAN_T2	0	0	0	0	0	0	0.13	0.22	0	0	0	0	0	0
4/12/2024 12:05	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/12/2024 12:05	66505	SMAN_T2	0	3	3	0	0.2	0.2	0.22	0.1	2	2	0	1100	1100	0
4/12/2024 12:06	66504	SMAN_T2	0	0	0	0	0	0	-0.53	-0.57	0	0	0	0	0	0
4/12/2024 12:06	66502	SMAN_T2	0	0	0	0	0	0	0.13	0.22	0	0	0	0	0	0
4/12/2024 12:06	66505	SMAN_T2	0	3	3	0	0.2	0.2	0.22	0.1	2	2	0	1100	1100	0
4/12/2024 12:06	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/12/2024 12:09	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/12/2024 12:09	66502	SMAN_T2	0	0	0	0	0	0	0.67	0.56	0	0	0	0	0	0
4/12/2024 12:09	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
4/12/2024 12:09	11401	FARM_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
4/12/2024 12:11	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
4/12/2024 12:11	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/12/2024 12:11	46002	BERW_T2	0	0	0	0	0	0	-0.72	-0.74	1	1	0	900	900	0
4/12/2024 12:11	66504	SMAN_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
4/12/2024 12:14	23202	HIRU_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
4/12/2024 12:19	42802	SELI_T1	1	0	-1	0.1	0	-0.1	-0.64	-0.61	1	1	0	900	900	0
4/12/2024 12:20	42802	SELI_T1	1	0	-1	0.1	0	-0.1	-0.64	-0.61	1	1	0	900	900	0
4/12/2024 12:20	58401	MORO_T1	0	0	0	0	0	0	-1.04	-1.05	1	1	0	600	600	0
4/12/2024 12:20	60502	NMAN_T2	0	1	1	0	0.2	0.2	-0.35	-0.35	0	0	0	0	0	0
4/12/2024 12:20	60504	NMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/12/2024 12:20	60501	NMAN_T2	3	3	0	5.3	5.47	0.17	0	0	0	0	0	0	0	0
4/12/2024 12:20	45402	WILO_T2	2	3	1	0.45	0.33	-0.12	-0.83	-0.84	0	0	0	0	0	0
4/12/2024 12:21	58401	MORO_T1	0	0	0	0	0	0	-1.04	-1.05	1	1	0	600	600	0
4/12/2024 12:21	65205	PRIN_T1	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
4/12/2024 12:22	60801	BUCK_T1	4	34	30	0.28	0.22	-0.06	-0.3	-0.4	0	0	0	0	0	0
4/12/2024 12:22	67605	WARW_T1	29	31	2	0.66	0.73	0.07	-1.22	-1.24	0	0	0	0	0	0
4/12/2024 12:22	60803	BUCK_T1	8	13	5	0.15	0.26	0.11	0	0	0	0	0	0	0	0
4/12/2024 12:24	67401	WAKE_T2	1	3	2	0.1	0.43	0.33	0	0	0	0	0	0	0	0
4/12/2024 12:24	67402	WAKE_T2	0	0	0	0	0	0	0.97	1	0	0	0	0	0	0
4/12/2024 12:25	43302	WATS_T2	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0	0
4/12/2024 12:25	43301	WATS_T2	0	3	3	0	0.3	0.3	-0.76	-0.8	1	1	0	900	900	0
4/12/2024 12:25	43304	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 12:26	60803	BUCK_T1	8	13	5	0.15	0.26	0.11	0	0	0	0	0	0	0	0
4/12/2024 12:26	66502	SMAN_T2	0	4	4	0	0.3	0.3	0.19	0.22	0	0	0	0	0	0
4/12/2024 12:26	66501	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/12/2024 12:26	66505	SMAN_T2	3	3	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/12/2024 12:26	60801	BUCK_T1	4	34	30	0.28	0.22	-0.06	-0.2	-0.19	0	0	0	0	0	0
4/12/2024 12:26	66504	SMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
4/12/2024 12:27	67605	WARW_T1	29	31	2	0.66	0.73	0.07	-1.24	-1.25	0	0	0	0	0	0
4/12/2024 12:27	11801	FRAN_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
4/12/2024 12:31	65503	MOJO_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/12/2024 12:31	65502	MOJO_T2	0	0	0	0	0	0	-0.35	-0.24	0	0	0	0	0	0
4/12/2024 12:34	11801	FRAN_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
4/12/2024 12:36	67603	WARW_T1	0	1	1	0	0.2	0.2	-0.03	-0.02	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/12/2024 12:36	67605	WARW_T1	31	27	-4	0.72	0.58	-0.14	0	0	0	0	0	0	0	0
4/12/2024 12:36	67702	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/12/2024 12:36	67701	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/12/2024 12:36	67703	WERN_T2	0	2	2	0	0.4	0.4	0.03	0.04	0	0	0	0	0	0
4/12/2024 12:37	67701	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/12/2024 12:37	67702	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/12/2024 12:37	64101	REFR_T1	0	0	0	0	0	0	-0.65	-0.71	0	0	0	0	0	0
4/12/2024 12:37	67703	WERN_T2	0	2	2	0	0.4	0.4	0.03	0.04	0	0	0	0	0	0
4/12/2024 12:38	67605	WARW_T1	31	27	-4	0.72	0.58	-0.14	-1.25	-1.2	0	0	0	0	0	0
4/12/2024 12:38	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/12/2024 12:41	46801	HEPB_T2	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
4/12/2024 12:41	60904	DONG_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/12/2024 12:41	60902	DONG_T2	0	0	0	0	0	0	0.62	0.65	0	0	0	0	0	0
4/12/2024 12:41	60901	DONG_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 12:41	40504	CRES_T1	0	0	0	0	0	0	-0.43	-0.4	0	0	0	0	0	0
4/12/2024 12:42	67605	WARW_T1	31	27	-4	0.72	0.58	-0.14	-1.25	-1.2	0	0	0	0	0	0
4/12/2024 12:42	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/12/2024 12:43	40101	HUNT_T2	1	0	-1	3.3	0	-3.3	-0.31	-0.26	0	0	0	0	0	0
4/12/2024 12:43	40504	CRES_T1	0	0	0	0	0	0	-0.43	-0.4	0	0	0	0	0	0
4/12/2024 12:45	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 12:45	12006	HATF_T1	0	0	0	0	0	0	0.45	0.42	1	1	0	1200	1200	0
4/12/2024 12:45	12502	MITR_T2	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
4/12/2024 12:45	12505	MITR_T2	0	0	0	0	0	0	0.74	0.82	0	0	0	0	0	0
4/12/2024 12:51	66703	STRA_T1	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
4/12/2024 12:51	66701	STRA_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/12/2024 12:53	67701	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/12/2024 12:53	67702	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/12/2024 12:53	67703	WERN_T2	0	2	2	0	0.4	0.4	0.09	0.05	0	0	0	0	0	0
4/12/2024 12:56	14201	EALL_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
4/12/2024 12:56	61302	EARL_T1	0	1	1	0	0.3	0.3	0.14	0.29	2	2	0	1800	1800	0
4/12/2024 13:00	41205	KENM_T2	0	0	0	0	0	0	-0.86	-0.82	1	1	0	600	600	0
4/12/2024 13:00	41202	KENM_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/12/2024 13:01	46801	HEPB_T2	0	2	2	0	0.3	0.3	0.56	0.58	0	0	0	0	0	0
4/12/2024 13:06	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 13:08	64101	REFR_T1	0	0	0	0	0	0	-0.67	-0.58	0	0	0	0	0	0
4/12/2024 13:08	67605	WARW_T1	16	30	14	0.64	0.74	0.1	-1.23	-1.19	0	0	0	0	0	0
4/12/2024 13:08	67603	WARW_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/12/2024 13:09	61303	EARL_T1	0	0	0	0	0	0	0.24	0.33	0	0	0	0	0	0
4/12/2024 13:09	61302	EARL_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/12/2024 13:10	61303	EARL_T1	0	0	0	0	0	0	0.24	0.33	0	0	0	0	0	0
4/12/2024 13:10	61302	EARL_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/12/2024 13:11	61302	EARL_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/12/2024 13:11	61303	EARL_T1	0	0	0	0	0	0	0.24	0.33	0	0	0	0	0	0
4/12/2024 13:12	67603	WARW_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/12/2024 13:12	67605	WARW_T1	16	30	14	0.64	0.74	0.1	-1.23	-1.19	0	0	0	0	0	0
4/12/2024 13:14	45702	LIND_T2	1	3	2	1.8	0.83	-0.97	-0.61	-0.61	0	0	0	0	0	0
4/12/2024 13:16	45702	LIND_T2	1	14	13	2	0.31	-1.69	-0.61	-0.61	0	0	0	0	0	0
4/12/2024 13:17	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 13:17	65205	PRIN_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
4/12/2024 13:18	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
4/12/2024 13:18	45701	LIND_T2	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
4/12/2024 13:18	45702	LIND_T2	1	14	13	2	0.31	-1.69	0	0	0	0	0	0	0	0
4/12/2024 13:18	13502	MCMI_T1	1	7	6	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/12/2024 13:20	47401	PENS_T1	2	4	2	0.25	0.55	0.3	0.76	0.91	0	0	0	0	0	0
4/12/2024 13:20	47402	PENS_T1	0	3	3	0	0.83	0.83	0	0	0	0	0	0	0	0
4/12/2024 13:21	40601	PIGR_T1	24	224	200	0.13	0.39	0.26	0.39	0.33	0	0	0	0	0	0
4/12/2024 13:22	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
4/12/2024 13:22	57103	SPHI_T2	0	0	0	0	0	0	-0.32	-0.31	1	1	0	600	600	0
4/12/2024 13:22	57106	SPHI_T2	3	3	0	1.5	1.73	0.23	0	0	0	0	0	0	0	0
4/12/2024 13:22	57101	SPHI_T2	6	6	0	1.08	1.23	0.15	0	0	0	0	0	0	0	0
4/12/2024 13:22	57104	SPHI_T2	2	2	0	1.25	0	-1.25	0	0	0	0	0	0	0	0
4/12/2024 13:23	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
4/12/2024 13:23	57104	SPHI_T2	2	2	0	1.25	0	-1.25	0	0	0	0	0	0	0	0
4/12/2024 13:23	57106	SPHI_T2	3	3	0	1.5	1.73	0.23	0	0	0	0	0	0	0	0
4/12/2024 13:23	13502	MCMI_T1	1	7	6	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/12/2024 13:23	57101	SPHI_T2	6	6	0	1.08	1.23	0.15	0	0	0	0	0	0	0	0
4/12/2024 13:23	57103	SPHI_T2	0	0	0	0	0	0	-0.32	-0.31	1	1	0	600	600	0
4/12/2024 13:24	51305	WIND_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/12/2024 13:24	51303	WIND_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/12/2024 13:24	51301	WIND_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 13:24	14603	SWHI_T1	0	2	2	0	0.25	0.25	-1.09	-1.11	1	1	0	600	600	0
4/12/2024 13:25	14204	EALL_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
4/12/2024 13:26	41502	FAIR_T2	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
4/12/2024 13:27	28403	HART_T2	1	4	3	3	0	-3	-0.86	-0.89	1	1	0	900	900	0
4/12/2024 13:28	53902	HALI_T2	2	3	1	3.15	2.57	-0.58	0	0	0	0	0	0	0	0
4/12/2024 13:28	53901	HALI_T2	1	4	3	1.1	0.48	-0.62	-1.11	-1.11	0	0	0	0	0	0
4/12/2024 13:28	53903	HALI_T2	3	10	7	1.1	0.64	-0.46	0	0	0	0	0	0	0	0
4/12/2024 13:29	40101	HUNT_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
4/12/2024 13:29	47102	MARL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 13:29	47103	MARL_T2	0	1	1	0	0.1	0.1	-0.62	-0.54	0	0	0	0	0	0
4/12/2024 13:30	47102	MARL_T2	2	2	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/12/2024 13:30	47103	MARL_T2	0	2	2	0	0.25	0.25	-0.62	-0.54	0	0	0	0	0	0
4/12/2024 13:30	15704	TANN_T1	0	8	8	0	0.1	0.1	-1.26	-1.23	0	0	0	0	0	0
4/12/2024 13:30	15701	TANN_T1	2	18	16	2.45	0.44	-2.01	0	0	0	0	0	0	0	0
4/12/2024 13:31	40101	HUNT_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
4/12/2024 13:31	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 13:31	63305	GREE_T1	0	6	6	0	0.17	0.17	0	0	0	0	0	0	0	0
4/12/2024 13:31	63302	GREE_T1	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
4/12/2024 13:32	12505	MITR_T2	0	0	0	0	0	0	0.87	0.89	0	0	0	0	0	0
4/12/2024 13:32	12502	MITR_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
4/12/2024 13:32	27502	WEIS_T2	0	14	14	0	0.29	0.29	-0.58	-0.59	0	0	0	0	0	0
4/12/2024 13:34	60504	NMAN_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/12/2024 13:34	60501	NMAN_T2	9	9	0	1.8	1.86	0.06	0	0	0	0	0	0	0	0
4/12/2024 13:34	60502	NMAN_T2	3	5	2	0.13	0.16	0.03	-0.35	-0.35	0	0	0	0	0	0
4/12/2024 13:35	13901	SEID_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
4/12/2024 13:35	67505	WEWI_T1	0	0	0	0	0	0	-0.32	-0.34	1	1	0	900	900	0
4/12/2024 13:36	15104	UPHA_T2	0	0	0	0	0	0	0.76	0.8	0	0	0	0	0	0
4/12/2024 13:36	18001	ZION_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
4/12/2024 13:36	15103	UPHA_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/12/2024 13:37	67605	WARW_T1	30	37	7	0.74	0.69	-0.05	-1.19	-1.21	0	0	0	0	0	0
4/12/2024 13:37	45602	WOOL_T1	4	4	0	0.6	0.63	0.03	0.48	0.48	0	0	0	0	0	0
4/12/2024 13:37	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/12/2024 13:38	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/12/2024 13:38	67505	WEWI_T1	0	0	0	0	0	0	-0.34	-0.27	1	1	0	900	900	0
4/12/2024 13:38	42701	AUGU_T1	1	0	-1	1.1	0	-1.1	0	0	2	1	-1	1800	600	-1200
4/12/2024 13:38	67605	WARW_T1	30	37	7	0.74	0.69	-0.05	-1.21	-1.21	0	0	0	0	0	0
4/12/2024 13:38	45402	WBLO_T2	39	55	16	0.32	0.38	0.06	-0.85	-0.87	0	0	0	0	0	0
4/12/2024 13:38	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/12/2024 13:40	45402	WBLO_T2	39	55	16	0.32	0.38	0.06	-0.85	-0.87	0	0	0	0	0	0
4/12/2024 13:40	15103	UPHA_T2	2	2	0	0.25	0.3	0.05	0.31	0.32	0	0	0	0	0	0
4/12/2024 13:41	41502	FAIR_T2	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
4/12/2024 13:41	58303	NOTT_T2	5	5	0	0.32	0.4	0.08	0.08	0.13	1	1	0	900	900	0
4/12/2024 13:42	41504	FAIR_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
4/12/2024 13:42	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/12/2024 13:42	67605	WARW_T1	30	37	7	0.74	0.69	-0.05	-1.21	-1.21	0	0	0	0	0	0
4/12/2024 13:42	45902	AUBU_T1	0	1	1	0	0.3	0.3	-0.74	-0.92	1	1	0	600	600	0
4/12/2024 13:45	51401	LYKE_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
4/12/2024 13:46	50501	MECH_T1	4	4	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
4/12/2024 13:46	50505	MECH_T1	0	0	0	0	0	0	-0.86	-0.83	0	0	0	0	0	0
4/12/2024 13:46	50506	MECH_T1	1	1	0	1.5	0.8	-0.7	0	0	0	0	0	0	0	0
4/12/2024 13:46	50502	MECH_T1	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
4/12/2024 13:46	50504	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 13:48	50504	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 13:48	12502	MITR_T2	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
4/12/2024 13:48	11601	CEAL_T1	1	1	0	0.5	0.6	0.1	0	0	1	0	-1	1200	0	-1200
4/12/2024 13:48	12505	MITR_T2	0	0	0	0	0	0	0.89	0.91	0	0	0	0	0	0
4/12/2024 13:48	50506	MECH_T1	1	1	0	1.5	0.8	-0.7	0	0	0	0	0	0	0	0
4/12/2024 13:48	50502	MECH_T1	1	1	0	2.2	2.4	0.2	-0.07	-0.09	0	0	0	0	0	0
4/12/2024 13:48	50501	MECH_T1	4	4	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
4/12/2024 13:49	50501	MECH_T1	4	4	0	0.8	0.85	0.05	0.41	0.42	0	0	0	0	0	0
4/12/2024 13:49	55102	WERT_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/12/2024 13:49	50506	MECH_T1	1	1	0	1.5	0.8	-0.7	0	0	0	0	0	0	0	0
4/12/2024 13:49	50504	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 13:49	50502	MECH_T1	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
4/12/2024 13:49	57401	SPAN_T1	8	20	12	0.41	0.43	0.02	-1.26	-1.25	1	1	0	600	600	0
4/12/2024 13:49	57403	SPAN_T1	141	178	37	0.25	0.55	0.3	-0.06	-0.06	0	0	0	0	0	0
4/12/2024 13:50	57401	SPAN_T1	8	20	12	0.41	0.43	0.02	-1.26	-1.25	1	1	0	600	600	0
4/12/2024 13:50	57403	SPAN_T1	141	178	37	0.25	0.55	0.3	0	0	0	0	0	0	0	0
4/12/2024 13:51	50501	MECH_T1	4	4	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
4/12/2024 13:51	50502	MECH_T1	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
4/12/2024 13:51	50505	MECH_T1	0	0	0	0	0	0	-0.86	-0.83	0	0	0	0	0	0
4/12/2024 13:51	57401	SPAN_T1	8	20	12	0.41	0.43	0.02	0	0	0	0	0	0	0	0
4/12/2024 13:51	50504	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 13:51	50506	MECH_T1	1	1	0	1.5	0.8	-0.7	0	0	0	0	0	0	0	0
4/12/2024 13:51	55102	WERT_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/12/2024 13:51	57403	SPAN_T1	141	178	37	0.25	0.55	0.3	-0.12	-0.12	0	0	0	0	0	0
4/12/2024 13:52	57403	SPAN_T1	141	178	37	0.25	0.55	0.3	0	0	0	0	0	0	0	0
4/12/2024 13:52	57401	SPAN_T1	8	20	12	0.41	0.43	0.02	-2.52	-2.51	2	2	0	1200	1200	0
4/12/2024 13:52	58002	WCAR_T2	15	9	-6	0.25	0.19	-0.06	0	0	0	0	0	0	0	0
4/12/2024 13:52	58006	WCAR_T2	1	0	-1	0.1	0	-0.1	0.32	0.31	0	0	0	0	0	0
4/12/2024 13:53	20401	ASHF_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
4/12/2024 13:53	16605	PONO_T1	0	0	0	0	0	0	-0.47	-0.53	1	1	0	1200	1200	0
4/12/2024 13:53	57403	SPAN_T1	141	178	37	0.25	0.55	0.3	0	0	0	0	0	0	0	0
4/12/2024 13:53	57401	SPAN_T1	8	20	12	0.41	0.43	0.02	-2.52	-2.51	2	2	0	1200	1200	0
4/12/2024 13:53	20403	ASHF_T2	1	9	8	0.1	0.24	0.14	0.07	0.06	0	0	0	0	0	0
4/12/2024 13:54	67703	WERN_T2	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
4/12/2024 13:55	66505	SMAN_T2	3	3	0	0.67	0.47	-0.2	0	0	0	0	0	0	0	0
4/12/2024 13:55	66503	SMAN_T2	6	0	-6	0.12	0	-0.12	0	0	0	0	0	0	0	0
4/12/2024 13:55	24702	FLND_T2	0	0	0	0	0	0	0.21	0.04	1	1	0	1200	1200	0
4/12/2024 13:55	66502	SMAN_T2	0	0	0	0	0	0	0.23	0.26	0	0	0	0	0	0
4/12/2024 13:55	10801	CHIH_T1	6	6	0	0.62	0.45	-0.17	-1.05	-1.04	1	1	0	900	900	0
4/12/2024 13:55	66501	SMAN_T2	6	0	-6	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/12/2024 13:55	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/12/2024 13:56	20403	ASHF_T2	1	9	8	0.1	0.24	0.14	0.07	0.06	0	0	0	0	0	0
4/12/2024 13:56	17401	FOHI_T1	0	1	1	0	0.2	0.2	-1.02	-0.99	0	0	0	0	0	0
4/12/2024 13:56	10903	COOP_T2	1	2	1	0.8	0.85	0.05	-0.38	-0.36	1	1	0	600	600	0
4/12/2024 13:56	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/12/2024 13:56	41602	CLEV_T1	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
4/12/2024 13:56	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 13:57	67605	WARW_T1	27	42	15	0.7	0.75	0.05	-1.21	-1.24	0	0	0	0	0	0
4/12/2024 13:58	41602	CLEV_T1	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
4/12/2024 13:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 13:58	40101	HUNT_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
4/12/2024 13:58	44505	HAMI_T2	2	0	-2	0.55	0	-0.55	0.72	0.74	0	0	0	0	0	0
4/12/2024 13:58	44504	HAMI_T2	1	1	0	6.4	0	-6.4	0	0	0	0	0	0	0	0
4/12/2024 13:58	44502	HAMI_T2	2	1	-1	1.85	3.2	1.35	0	0	0	0	0	0	0	0
4/12/2024 13:59	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 13:59	23902	EFMO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 14:01	53902	HALI_T2	2	5	3	3.3	1.62	-1.68	-0.25	-0.28	0	0	0	0	0	0
4/12/2024 14:01	53901	HALI_T2	1	4	3	1.4	0.58	-0.82	0	0	0	0	0	0	0	0
4/12/2024 14:01	53903	HALI_T2	3	11	8	1.27	0.63	-0.64	0	0	0	0	0	0	0	0
4/12/2024 14:01	44505	HAMI_T2	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
4/12/2024 14:01	44502	HAMI_T2	1	1	0	3.2	3	-0.2	0	0	0	0	0	0	0	0
4/12/2024 14:02	67605	WARW_T1	37	48	11	0.69	0.69	0	-1.21	-1.24	0	0	0	0	0	0
4/12/2024 14:03	12101	SALL_T2	8	11	3	0.56	0.77	0.21	0	0	0	0	0	0	0	0
4/12/2024 14:03	44505	HAMI_T2	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
4/12/2024 14:03	58302	NOTT_T1	0	0	0	0	0	0	-0.37	-0.42	1	1	0	1200	1200	0
4/12/2024 14:03	44502	HAMI_T2	1	1	0	3.2	3	-0.2	0	0	0	0	0	0	0	0
4/12/2024 14:03	12102	SALL_T2	5	7	2	0.42	0.44	0.02	0.12	0.14	0	0	0	0	0	0
4/12/2024 14:05	13606	RICH_T2	2	1	-1	3.5	6.9	3.4	1.09	1	0	0	0	0	0	0
4/12/2024 14:05	12102	SALL_T2	5	7	2	0.42	0.44	0.02	0.12	0.14	0	0	0	0	0	0
4/12/2024 14:05	12101	SALL_T2	8	11	3	0.56	0.77	0.21	0	0	0	0	0	0	0	0
4/12/2024 14:05	44201	POIN_T1	12	103	91	0.11	0.16	0.05	-2.18	-2.25	2	2	0	2100	2100	0
4/12/2024 14:06	44201	POIN_T1	12	103	91	0.11	0.16	0.05	-2.18	-2.25	2	2	0	2100	2100	0
4/12/2024 14:06	12101	SALL_T2	8	11	3	0.56	0.77	0.21	0	0	0	0	0	0	0	0
4/12/2024 14:06	12102	SALL_T2	5	7	2	0.42	0.44	0.02	0.12	0.14	0	0	0	0	0	0
4/12/2024 14:07	42201	SHEN_T2	0	1	1	0	0.3	0.3	-0.05	-0.05	1	1	0	600	600	0
4/12/2024 14:07	46002	BERW_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 14:07	46003	BERW_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/12/2024 14:07	46004	BERW_T2	11	13	2	0.11	0.13	0.02	-0.79	-0.63	0	0	0	0	0	0
4/12/2024 14:08	40201	BEGA_T2	11	9	-2	0.35	0.41	0.06	0	0	0	0	0	0	0	0
4/12/2024 14:08	46002	BERW_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 14:08	46004	BERW_T2	11	13	2	0.11	0.13	0.02	-0.63	-0.68	0	0	0	0	0	0
4/12/2024 14:08	43504	WWIL_T1	17	16	-1	0.53	0.51	-0.02	0.55	0.55	0	0	0	0	0	0
4/12/2024 14:08	46003	BERW_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/12/2024 14:08	43506	WWIL_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
4/12/2024 14:08	43505	WWIL_T1	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
4/12/2024 14:09	53601	DALM_T2	1	1	0	0.5	0.9	0.4	0.5	0.49	0	0	0	0	0	0
4/12/2024 14:10	46003	BERW_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/12/2024 14:10	46004	BERW_T2	11	13	2	0.11	0.13	0.02	-0.63	-0.68	0	0	0	0	0	0
4/12/2024 14:10	46001	BERW_T1	0	0	0	0	0	0	1.7	1.41	0	0	0	0	0	0
4/12/2024 14:10	46002	BERW_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 14:11	13606	RICH_T2	2	1	-1	3.5	6.9	3.4	1	1.48	0	0	0	0	0	0
4/12/2024 14:11	40201	BEGA_T2	11	9	-2	0.35	0.41	0.06	0	0	0	0	0	0	0	0
4/12/2024 14:11	17401	FOHI_T1	1	1	0	0.1	0.2	0.1	-0.99	-1.03	0	0	0	0	0	0
4/12/2024 14:12	46001	BERW_T1	0	0	0	0	0	0	1.7	1.41	0	0	0	0	0	0
4/12/2024 14:12	17401	FOHI_T1	1	1	0	0.1	0.2	0.1	-0.99	-1.03	0	0	0	0	0	0
4/12/2024 14:12	61103	BERK_T5	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
4/12/2024 14:12	16301	ALPA_T1	74	20	-54	0.16	0.35	0.19	-0.44	-0.43	0	0	0	0	0	0
4/12/2024 14:12	45902	AUBU_T1	0	0	0	0	0	0	-0.86	-0.79	1	1	0	600	600	0
4/12/2024 14:13	17401	FOHI_T1	1	1	0	0.1	0.2	0.1	-0.99	-1.03	0	0	0	0	0	0
4/12/2024 14:13	45902	AUBU_T1	0	0	0	0	0	0	-1.73	-1.58	2	2	0	1200	1200	0
4/12/2024 14:14	42401	GIMA_T1	14	29	15	0.11	0.13	0.02	0	0	0	0	0	0	0	0
4/12/2024 14:16	41202	KENM_T2	1	1	0	0.7	0.5	-0.2	0.51	0.53	0	0	0	0	0	0
4/12/2024 14:17	42002	MNVL_T2	1	1	0	3.9	3.9	0	0.25	0.27	0	0	0	0	0	0
4/12/2024 14:17	42001	MNVL_T2	4	2	-2	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
4/12/2024 14:18	45902	AUBU_T1	0	0	0	0	0	0	-0.86	-0.79	1	1	0	600	600	0
4/12/2024 14:20	65802	RTWN_T2	0	3	3	0	0.43	0.43	-0.56	-0.53	0	0	0	0	0	0
4/12/2024 14:20	13606	RICH_T2	1	1	0	6.9	7.4	0.5	0	0	0	0	0	0	0	0
4/12/2024 14:20	13601	RICH_T2	0	0	0	0	0	0	-0.08	-0.1	1	1	0	600	600	0
4/12/2024 14:20	65803	RTWN_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
4/12/2024 14:23	51304	WIND_T2	0	3	3	0	0.27	0.27	-0.15	-0.09	0	0	0	0	0	0
4/12/2024 14:23	51302	WIND_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/12/2024 14:23	51306	WIND_T2	0	10	10	0	0.28	0.28	0	0	0	0	0	0	0	0
4/12/2024 14:23	49804	UNIV_T1	1	1	0	0.3	0.6	0.3	0.64	0.55	0	0	0	0	0	0
4/12/2024 14:24	54603	SUMM_T2	0	0	0	0	0	0	-0.06	-0.07	1	1	0	900	900	0
4/12/2024 14:24	54601	SUMM_T2	10	13	3	0.62	0.68	0.06	0	0	0	0	0	0	0	0
4/12/2024 14:26	28703	HAML_T2	3	3	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/12/2024 14:26	28704	HAML_T2	1	1	0	0.5	0.6	0.1	-0.01	-0.01	0	0	0	0	0	0
4/12/2024 14:27	15702	TANN_T2	0	0	0	0	0	0	0.54	0.48	0	0	0	0	0	0
4/12/2024 14:27	53602	DALM_T2	0	0	0	0	0	0	-0.54	-0.54	1	1	0	600	600	0
4/12/2024 14:27	67603	WARW_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 14:27	67605	WARW_T1	41	48	7	0.76	0.65	-0.11	-1.2	-1.16	0	0	0	0	0	0
4/12/2024 14:27	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
4/12/2024 14:27	53601	DALM_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
4/12/2024 14:29	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
4/12/2024 14:29	15702	TANN_T2	0	0	0	0	0	0	0.54	0.48	0	0	0	0	0	0
4/12/2024 14:30	61704	ELIZ_T2	5	5	0	0.52	0.56	0.04	0	0	0	0	0	0	0	0
4/12/2024 14:30	16103	BING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/12/2024 14:30	16102	BING_T2	1	0	-1	0.2	0	-0.2	-0.3	-0.32	1	1	0	1200	1200	0
4/12/2024 14:30	61702	ELIZ_T2	3	2	-1	1.13	0.35	-0.78	-0.88	-0.92	1	1	0	300	300	0
4/12/2024 14:31	63402	HONY_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/12/2024 14:31	63403	HONY_T2	0	0	0	0	0	0	0.24	0.28	1	1	0	600	600	0
4/12/2024 14:31	28703	HAML_T2	3	3	0	0.8	0.77	-0.03	0	0	0	0	0	0	0	0
4/12/2024 14:31	28701	HAML_T2	0	5	5	0	0.72	0.72	0	0	0	0	0	0	0	0
4/12/2024 14:31	28704	HAML_T2	1	1	0	0.6	0.4	-0.2	-0.01	-0.01	0	0	0	0	0	0
4/12/2024 14:31	47001	HUGH_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
4/12/2024 14:32	46506	LOHA_T1	1	1	0	0.4	0.5	0.1	-0.45	-0.48	0	0	0	0	0	0
4/12/2024 14:32	64701	LITI_T1	0	0	0	0	0	0	0.3	0.24	0	0	0	0	0	0
4/12/2024 14:32	67605	WARW_T1	48	44	-4	0.63	0.68	0.05	-1.2	-1.16	0	0	0	0	0	0
4/12/2024 14:32	46504	LOHA_T1	2	15	13	1.45	0.26	-1.19	0	0	0	0	0	0	0	0
4/12/2024 14:32	67603	WARW_T1	0	2	2	0	1	1	0	0	0	0	0	0	0	0
4/12/2024 14:33	47001	HUGH_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
4/12/2024 14:34	66902	SHIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/12/2024 14:34	66901	SHIL_T2	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
4/12/2024 14:36	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 14:36	42201	SHEN_T2	0	0	0	0	0	0	0.17	0.62	0	0	0	0	0	0
4/12/2024 14:36	65603	QVIL_T2	0	0	0	0	0	0	0.44	0.32	0	0	0	0	0	0
4/12/2024 14:40	60101	COCA_T1	0	1	1	0	0.2	0.2	0.21	0.23	0	0	0	0	0	0
4/12/2024 14:41	11401	EALL_T1	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
4/12/2024 14:42	67603	WARW_T1	0	2	2	0	1	1	0	0	0	0	0	0	0	0
4/12/2024 14:42	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1.01	0	0	0	0	0	0
4/12/2024 14:42	67605	WARW_T1	48	44	-4	0.63	0.68	0.05	-1.16	-1.15	0	0	0	0	0	0
4/12/2024 14:44	56601	HAMP_T1	0	0	0	0	0	0	-1.94	-1.93	0	0	0	0	0	0
4/12/2024 14:46	62607	ENGL_T1	0	2	2	0	0	0	-1.13	-1.14	1	1	0	300	300	0
4/12/2024 14:47	67603	WARW_T1	2	2	0	0.1	1	0.9	0	0	0	0	0	0	0	0
4/12/2024 14:47	67605	WARW_T1	44	35	-9	0.68	0.72	0.04	-1.16	-1.15	0	0	0	0	0	0
4/12/2024 14:48	64702	LITI_T2	0	0	0	0	0	0	-0.66	-0.54	0	0	0	0	0	0
4/12/2024 14:50	49804	UNIV_T1	1	2	1	0.6	1	0.4	0.55	0.6	0	0	0	0	0	0
4/12/2024 14:50	49803	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 14:51	49803	UNIV_T1	0	1	1	0	0.1	0.1	-1.24	-1.21	0	0	0	0	0	0
4/12/2024 14:51	49804	UNIV_T1	1	2	1	0.6	1	0.4	0	0	0	0	0	0	0	0
4/12/2024 14:52	49804	UNIV_T1	1	2	1	0.6	1	0.4	0.55	0.6	0	0	0	0	0	0
4/12/2024 14:52	66703	STRA_T1	0	0	0	0	0	0	-0.15	-0.06	0	0	0	0	0	0
4/12/2024 14:52	49803	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 14:53	67503	WEWI_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
4/12/2024 14:53	40201	BEGA_T2	3	11	8	0.63	0.29	-0.34	0	0	0	0	0	0	0	0
4/12/2024 14:53	67502	WEWI_T2	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
4/12/2024 14:53	64101	REFR_T1	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
4/12/2024 14:54	20403	ASHF_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/12/2024 14:54	20401	ASHF_T2	0	1	1	0	0.1	0.1	-0.4	-0.41	0	0	0	0	0	0
4/12/2024 14:55	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.82	-0.76	1	1	0	600	600	0
4/12/2024 14:57	40502	CRES_T2	0	21	21	0	0.25	0.25	0.51	0.48	0	0	0	0	0	0
4/12/2024 14:57	67603	WARW_T1	2	2	0	0.1	1	0.9	0	0	0	0	0	0	0	0
4/12/2024 14:57	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 14:57	67605	WARW_T1	44	35	-9	0.68	0.72	0.04	-1.15	-1.19	0	0	0	0	0	0
4/12/2024 14:57	67605	WARW_T1	44	35	-9	0.68	0.72	0.04	-1.15	-1.19	0	0	0	0	0	0
4/12/2024 14:57	67605	WARW_T1	44	35	-9	0.68	0.72	0.04	-1.15	-1.19	0	0	0	0	0	0
4/12/2024 14:57	67605	WARW_T1	44	35	-9	0.68	0.72	0.04	-1.15	-1.19	0	0	0	0	0	0
4/12/2024 14:58	17401	FOHI_T1	0	0	0	0	0	0	-2.02	-2.02	0	0	0	0	0	0
4/12/2024 14:59	17401	FOHI_T1	0	0	0	0	0	0	-2.02	-2.02	0	0	0	0	0	0
4/12/2024 15:00	62606	ENGL_T1	0	0	0	0	0	0	-0.71	-0.79	1	1	0	900	900	0
4/12/2024 15:00	45902	AUBU_T1	1	1	0	0.4	0.1	-0.3	-0.82	-0.76	1	1	0	600	600	0
4/12/2024 15:00	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 15:00	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
4/12/2024 15:01	46102	MACI_T1	157	304	147	0.19	0.28	0.09	0.29	0.31	0	0	0	0	0	0
4/12/2024 15:02	67603	WARW_T1	2	0	-2	1	0	-1	0	0	0	0	0	0	0	0
4/12/2024 15:02	67605	WARW_T1	35	40	5	0.69	0.71	0.02	-1.15	-1.19	0	0	0	0	0	0
4/12/2024 15:07	59202	THOM_T1	101	238	137	0.14	0.19	0.05	0	0	0	0	0	0	0	0
4/12/2024 15:07	59201	THOM_T1	5	8	3	0.12	0.21	0.09	0	0	0	0	0	0	0	0
4/12/2024 15:08	66703	STRA_T1	0	17	17	0	0	0	-0.13	-0.15	0	0	0	0	0	0
4/12/2024 15:09	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 15:09	43302	WATS_T2	3	4	1	0.43	0.95	0.52	0	0	0	0	0	0	0	0
4/12/2024 15:09	43304	WATS_T2	0	0	0	0	0	0	-0.5	-0.64	0	0	0	0	0	0
4/12/2024 15:10	66505	SMAN_T2	2	3	1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
4/12/2024 15:10	66504	SMAN_T2	0	0	0	0	0	0	-0.52	-0.56	0	0	0	0	0	0
4/12/2024 15:10	66501	SMAN_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/12/2024 15:10	61304	EARL_T1	0	0	0	0	0	0	-0.91	-0.93	1	1	0	600	600	0
4/12/2024 15:10	60101	COCA_T1	1	1	0	0.2	0.1	-0.1	0.25	0.19	0	0	0	0	0	0
4/12/2024 15:10	66502	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/12/2024 15:11	66505	SMAN_T2	2	3	1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
4/12/2024 15:11	66501	SMAN_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/12/2024 15:11	66502	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/12/2024 15:11	21403	EXET_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
4/12/2024 15:11	66504	SMAN_T2	0	0	0	0	0	0	-1.05	-1.11	0	0	0	0	0	0
4/12/2024 15:12	61303	EARL_T1	0	0	0	0	0	0	0.22	0.17	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/12/2024 15:12	20603	GRWO_T2	1	3	2	0.1	0.73	0.63	0.35	0.35	0	0	0	0	0	0
4/12/2024 15:13	45801	HEGI_T1	0	0	0	0	0	0	-0.26	-0.3	1	1	0	900	900	0
4/12/2024 15:13	16301	ALPA_T1	1	1	0	0.4	0.4	0	-0.48	-0.47	0	0	0	0	0	0
4/12/2024 15:15	61302	EARL_T1	0	0	0	0	0	0	0.13	0.09	2	2	0	1800	1800	0
4/12/2024 15:15	61304	EARL_T1	0	0	0	0	0	0	-0.91	-0.93	1	1	0	600	600	0
4/12/2024 15:16	63401	HONY_T1	0	0	0	0	0	0	0.81	0.88	0	0	0	0	0	0
4/12/2024 15:18	64201	KINZ_T1	0	1	1	0	0.1	0.1	0.24	0.07	3	3	0	1500	1500	0
4/12/2024 15:18	64202	KINZ_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/12/2024 15:18	64204	KINZ_T1	1	2	1	1	0.9	-0.1	0	0	0	0	0	0	0	0
4/12/2024 15:20	64101	REFR_T1	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
4/12/2024 15:20	59202	THOM_T1	231	139	-92	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
4/12/2024 15:20	59201	THOM_T1	8	7	-1	0.21	0.16	-0.05	0	0	0	0	0	0	0	0
4/12/2024 15:21	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 15:21	65604	QVIL_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
4/12/2024 15:24	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.14	0	0	0	0	0	0
4/12/2024 15:25	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.14	0	0	0	0	0	0
4/12/2024 15:26	62602	ENGL_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
4/12/2024 15:28	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.14	0	0	0	0	0	0
4/12/2024 15:29	53901	HALI_T2	1	1	0	1.2	1.3	0.1	-1.09	-1.11	0	0	0	0	0	0
4/12/2024 15:29	53902	HALI_T2	1	2	1	6.2	3.3	-2.9	0	0	0	0	0	0	0	0
4/12/2024 15:29	53903	HALI_T2	3	6	3	1.23	0.75	-0.48	0	0	0	0	0	0	0	0
4/12/2024 15:30	53901	HALI_T2	1	1	0	1.3	1.3	0	-2.18	-2.23	0	0	0	0	0	0
4/12/2024 15:30	53903	HALI_T2	6	2	-4	0.75	1.8	1.05	0	0	0	0	0	0	0	0
4/12/2024 15:30	53902	HALI_T2	2	2	0	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
4/12/2024 15:31	53903	HALI_T2	6	2	-4	0.75	1.8	1.05	0	0	0	0	0	0	0	0
4/12/2024 15:31	53902	HALI_T2	2	2	0	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
4/12/2024 15:31	53901	HALI_T2	1	1	0	1.3	1.3	0	-1.09	-1.11	0	0	0	0	0	0
4/12/2024 15:34	53902	HALI_T2	2	2	0	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
4/12/2024 15:34	53901	HALI_T2	1	1	0	1.3	1.3	0	-2.18	-2.23	0	0	0	0	0	0
4/12/2024 15:34	53903	HALI_T2	6	2	-4	0.75	1.8	1.05	0	0	0	0	0	0	0	0
4/12/2024 15:36	40601	PIGR_T1	218	231	13	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
4/12/2024 15:36	42001	MNVL_T2	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
4/12/2024 15:36	40603	PIGR_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
4/12/2024 15:36	42002	MNVL_T2	1	1	0	3.2	3.1	-0.1	0.22	0.18	0	0	0	0	0	0
4/12/2024 15:37	67501	WEWI_T1	0	1	1	0	0.1	0.1	-0.58	-0.53	0	0	0	0	0	0
4/12/2024 15:38	59101	WALK_T2	65	68	3	0.73	0.99	0.26	-0.74	-0.81	0	0	0	0	0	0
4/12/2024 15:38	43505	WWIL_T1	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
4/12/2024 15:38	43506	WWIL_T1	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
4/12/2024 15:38	67502	WEWI_T2	0	11	11	0	0.29	0.29	-0.45	-0.48	0	0	0	0	0	0
4/12/2024 15:38	43504	WWIL_T1	16	16	0	0.59	0.63	0.04	0.51	0.51	0	0	0	0	0	0
4/12/2024 15:38	59102	WALK_T2	8	12	4	0.2	0.2	0	0	0	0	0	0	0	0	0
4/12/2024 15:39	67502	WEWI_T2	0	11	11	0	0.29	0.29	-0.45	-0.48	0	0	0	0	0	0
4/12/2024 15:39	67702	WERN_T2	0	0	0	0	0	0	-0.14	-0.06	0	0	0	0	0	0
4/12/2024 15:40	60803	BUCK_T1	12	14	2	0.2	0.28	0.08	-0.54	-0.53	1	1	0	600	600	0
4/12/2024 15:40	59102	WALK_T2	8	12	4	0.2	0.2	0	0	0	0	0	0	0	0	0
4/12/2024 15:40	60801	BUCK_T1	12	34	22	0.14	0.25	0.11	0	0	0	0	0	0	0	0
4/12/2024 15:40	59101	WALK_T2	65	68	3	0.73	0.99	0.26	-0.81	-0.78	0	0	0	0	0	0
4/12/2024 15:41	60803	BUCK_T1	12	14	2	0.2	0.28	0.08	0	0	0	0	0	0	0	0
4/12/2024 15:41	60801	BUCK_T1	12	34	22	0.14	0.25	0.11	-0.09	-0.05	0	0	0	0	0	0
4/12/2024 15:42	67605	WARW_T1	40	44	4	0.71	0.72	0.01	-1.16	-1.18	0	0	0	0	0	0
4/12/2024 15:42	62607	ENGL_T1	0	0	0	0	0	0	-1.13	-1.13	1	1	0	300	300	0
4/12/2024 15:42	67603	WARW_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/12/2024 15:43	62607	ENGL_T1	0	0	0	0	0	0	-1.13	-1.13	1	1	0	300	300	0
4/12/2024 15:45	62607	ENGL_T1	0	0	0	0	0	0	-1.13	-1.13	1	1	0	300	300	0
4/12/2024 15:46	64702	LITI_T2	0	0	0	0	0	0	-0.65	-0.55	0	0	0	0	0	0
4/12/2024 15:47	67603	WARW_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
4/12/2024 15:47	67605	WARW_T1	37	48	11	0.77	0.73	-0.04	-1.16	-1.18	0	0	0	0	0	0
4/12/2024 15:48	58401	MORO_T1	4	3	-1	0.18	0.3	0.12	-1.04	-1.08	1	1	0	600	600	0
4/12/2024 15:49	44201	POIN_T1	422	492	70	0.3	0.33	0.03	-2.5	-2.47	2	2	0	2100	2100	0
4/12/2024 15:50	44201	POIN_T1	422	492	70	0.3	0.33	0.03	-5	-4.94	4	4	0	4200	4200	0
4/12/2024 15:51	67401	WAKE_T2	109	141	32	0.23	0.25	0.02	0	0	0	0	0	0	0	0
4/12/2024 15:51	57403	SPAN_T1	171	169	-2	0.47	0.33	-0.14	0	0	0	0	0	0	0	0
4/12/2024 15:51	67402	WAKE_T2	2	1	-1	0.25	0.1	-0.15	0.26	0.15	0	0	0	0	0	0
4/12/2024 15:51	57401	SPAN_T1	2	2	0	0.8	0.6	-0.2	-1.02	-1.04	1	1	0	600	600	0
4/12/2024 15:52	57403	SPAN_T1	171	169	-2	0.47	0.33	-0.14	0	0	0	0	0	0	0	0
4/12/2024 15:52	57401	SPAN_T1	2	2	0	0.8	0.6	-0.2	-2.04	-2.09	2	2	0	1200	1200	0
4/12/2024 15:53	57403	SPAN_T1	171	169	-2	0.47	0.33	-0.14	0	0	0	0	0	0	0	0
4/12/2024 15:53	57401	SPAN_T1	2	2	0	0.8	0.6	-0.2	-1.02	-1.04	1	1	0	600	600	0
4/12/2024 15:55	13805	SALI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 15:55	13801	SALI_T1	0	0	0	0	0	0	0.77	0.79	0	0	0	0	0	0
4/12/2024 15:55	13807	SALI_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 15:55	13804	SALI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/12/2024 15:56	45901	AUBU_T1	0	0	0	0	0	0	1.87	1.86	0	0	0	0	0	0
4/12/2024 15:56	45902	AUBU_T1	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/12/2024 15:57	67603	WARW_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
4/12/2024 15:57	67605	WARW_T1	37	48	11	0.77	0.73	-0.04	-1.18	-1.12	0	0	0	0	0	0
4/12/2024 15:58	45902	AUBU_T1	1	2	1	0.4	0.2	-0.2	-0.84	-0.9	1	1	0	600	600	0
4/12/2024 16:01	46504	LOHA_T1	2	2	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
4/12/2024 16:01	46502	LOHA_T1	0	0	0	0	0	0	-1.38	-1.38	1	1	0	1200	1200	0
4/12/2024 16:02	47401	PENS_T1	0	4	4	0	0.5	0.5	0.65	0.7	0	0	0	0	0	0
4/12/2024 16:02	47403	PENS_T1	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
4/12/2024 16:02	67603	WARW_T1	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
4/12/2024 16:02	67605	WARW_T1	44	46	2	0.71	0.71	0	-1.18	-1.12	0	0	0	0	0	0
4/12/2024 16:02	47402	PENS_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/12/2024 16:03	45902	AUBU_T1	1	2	1	0.2	0.45	0.25	-0.84	-0.9	1	1	0	600	600	0
4/12/2024 16:03	47401	PENS_T1	0	4	4	0	0.5	0.5	0.65	0.7	0	0	0	0	0	0
4/12/2024 16:03	47403	PENS_T1	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
4/12/2024 16:03	47402	PENS_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/12/2024 16:03	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 16:03	65205	PRIN_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 16:05	13302	ORVI_T2	0	0	0	0	0	0	1.37	1.35	0	0	0	0	0	0
4/12/2024 16:06	47403	PENS_T1	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
4/12/2024 16:06	47401	PENS_T1	0	4	4	0	0.5	0.5	0.65	0.7	0	0	0	0	0	0
4/12/2024 16:06	47402	PENS_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/12/2024 16:11	62605	ENGL_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
4/12/2024 16:11	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 16:12	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 16:12	62605	ENGL_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
4/12/2024 16:13	63804	HEMP_T1	1	1	0	6.4	5.9	-0.5	0	0	0	0	0	0	0	0
4/12/2024 16:13	63801	HEMP_T1	3	2	-1	0.43	0.35	-0.08	0	0	0	0	0	0	0	0
4/12/2024 16:13	63802	HEMP_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
4/12/2024 16:13	63803	HEMP_T1	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/12/2024 16:15	63803	HEMP_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
4/12/2024 16:15	56601	HAMP_T1	0	0	0	0	0	0	-1.93	-1.89	0	0	0	0	0	0
4/12/2024 16:15	63802	HEMP_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
4/12/2024 16:15	63801	HEMP_T1	1	2	1	0.6	0.1	-0.5	-0.27	-0.26	0	0	0	0	0	0
4/12/2024 16:15	63804	HEMP_T1	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
4/12/2024 16:16	56601	HAMP_T1	0	0	0	0	0	0	-1.93	-1.89	0	0	0	0	0	0
4/12/2024 16:16	12602	MACA_T1	0	0	0	0	0	0	-1.47	-0.18	0	0	0	0	0	0
4/12/2024 16:22	57101	SPHI_T2	6	6	0	1.48	1.47	-0.01	0	0	0	0	0	0	0	0
4/12/2024 16:22	57103	SPHI_T2	0	0	0	0	0	0	-0.31	-0.34	1	1	0	600	600	0
4/12/2024 16:22	57106	SPHI_T2	3	3	0	1.83	1.93	0.1	0	0	0	0	0	0	0	0
4/12/2024 16:22	67402	WAKE_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/12/2024 16:22	67401	WAKE_T2	111	126	15	0.24	0.27	0.03	-1.17	-1.13	0	0	0	0	0	0
4/12/2024 16:22	57104	SPHI_T2	0	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0
4/12/2024 16:24	61103	BERK_T5	5	6	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
4/12/2024 16:24	67603	WARW_T1	2	1	-1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
4/12/2024 16:24	57104	SPHI_T2	0	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0
4/12/2024 16:24	57106	SPHI_T2	3	3	0	1.83	1.93	0.1	0	0	0	0	0	0	0	0
4/12/2024 16:24	67605	WARW_T1	46	37	-9	0.71	0.7	-0.01	-1.16	-1.15	0	0	0	0	0	0
4/12/2024 16:24	57101	SPHI_T2	6	6	0	1.48	1.47	-0.01	0.53	0.53	0	0	0	0	0	0
4/12/2024 16:24	26001	WDAM_T1	0	0	0	0	0	0	-0.82	-0.8	0	0	0	0	0	0
4/12/2024 16:24	61102	BERK_T5	1	1	0	0.1	0.1	0	0.62	0.64	1	1	0	300	300	0
4/12/2024 16:25	57101	SPHI_T2	6	6	0	1.48	1.47	-0.01	0	0	0	0	0	0	0	0
4/12/2024 16:25	67603	WARW_T1	2	1	-1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
4/12/2024 16:25	67604	WARW_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
4/12/2024 16:25	20403	ASHF_T2	0	4	4	0	0.18	0.18	0.07	0.1	0	0	0	0	0	0
4/12/2024 16:25	57104	SPHI_T2	0	1	1	0	4.9	4.9	-0.11	-0.12	0	0	0	0	0	0
4/12/2024 16:25	67605	WARW_T1	46	37	-9	0.71	0.7	-0.01	0	0	0	0	0	0	0	0
4/12/2024 16:25	57106	SPHI_T2	3	3	0	1.83	1.93	0.1	0	0	0	0	0	0	0	0
4/12/2024 16:27	67603	WARW_T1	2	1	-1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
4/12/2024 16:27	67605	WARW_T1	46	37	-9	0.71	0.7	-0.01	-1.16	-1.15	0	0	0	0	0	0
4/12/2024 16:28	67603	WARW_T1	2	1	-1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
4/12/2024 16:28	67605	WARW_T1	46	37	-9	0.71	0.7	-0.01	-1.16	-1.15	0	0	0	0	0	0
4/12/2024 16:29	64202	KINZ_T1	3	3	0	0.43	0.27	-0.16	0	0	0	0	0	0	0	0
4/12/2024 16:29	64204	KINZ_T1	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/12/2024 16:29	64201	KINZ_T1	0	2	2	0	0.4	0.4	-0.1	-0.38	2	2	0	1200	1200	0
4/12/2024 16:29	45902	AUBU_T1	0	2	2	0	0.45	0.45	-0.87	-0.91	1	1	0	600	600	0
4/12/2024 16:32	52006	LING_T2	3	3	0	1.13	1.3	0.17	0	0	0	0	0	0	0	0
4/12/2024 16:32	52004	LING_T2	1	1	0	0.7	0.6	-0.1	0.06	0.04	0	0	0	0	0	0
4/12/2024 16:32	52002	LING_T2	1	1	0	0.7	1.5	0.8	0	0	0	0	0	0	0	0
4/12/2024 16:32	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/12/2024 16:32	67605	WARW_T1	31	38	7	0.65	0.72	0.07	-1.16	-1.15	0	0	0	0	0	0
4/12/2024 16:33	64202	KINZ_T1	3	3	0	0.17	0.33	0.16	0	0	0	0	0	0	0	0
4/12/2024 16:33	64201	KINZ_T1	1	9	8	0.1	0.26	0.16	-0.1	-0.38	2	2	0	1200	1200	0
4/12/2024 16:33	40902	JESH_T1	0	0	0	0	0	0	-0.79	-0.87	0	0	0	0	0	0
4/12/2024 16:33	64204	KINZ_T1	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/12/2024 16:34	58401	MORO_T1	0	0	0	0	0	0	-1.09	-1.12	1	1	0	600	600	0
4/12/2024 16:35	45902	AUBU_T1	2	2	0	0.45	0.45	0	-0.87	-0.91	1	1	0	600	600	0
4/12/2024 16:37	56601	HAMP_T1	0	0	0	0	0	0	-1.89	-1.93	0	0	0	0	0	0
4/12/2024 16:38	10602	BLGL_T2	0	0	0	0	0	0	0.23	0.18	0	0	0	0	0	0
4/12/2024 16:40	51603	DUKE_T1	2	2	0	1	0.95	-0.05	-0.53	-0.51	0	0	0	0	0	0
4/12/2024 16:40	51601	DUKE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/12/2024 16:41	67703	WERN_T2	0	1	1	0	0.1	0.1	-0.01	0.03	0	0	0	0	0	0
4/12/2024 16:41	67701	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/12/2024 16:42	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/12/2024 16:42	67605	WARW_T1	31	38	7	0.65	0.72	0.07	-1.15	-1.15	0	0	0	0	0	0
4/12/2024 16:42	67701	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/12/2024 16:42	67703	WERN_T2	0	1	1	0	0.1	0.1	-0.01	0.03	0	0	0	0	0	0
4/12/2024 16:43	64204	KINZ_T1	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/12/2024 16:43	64202	KINZ_T1	3	3	0	0.17	0.33	0.16	0	0	0	0	0	0	0	0
4/12/2024 16:43	64201	KINZ_T1	1	9	8	0.1	0.26	0.16	-0.38	-0.45	2	2	0	1200	1200	0
4/12/2024 16:44	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/12/2024 16:44	62605	ENGL_T1	0	0	0	0	0	0	-1.56	-1.49	0	0	0	0	0	0
4/12/2024 16:44	58401	MORO_T1	0	0	0	0	0	0	-1.12	-1.17	1	1	0	600	600	0
4/12/2024 16:45	45902	AUBU_T1	1	3	2	0.1	0.43	0.33	-0.91	-0.94	1	1	0	600	600	0
4/12/2024 16:47	12807	MICK_T1	1	1	0	0.6	0.4	-0.2	-0.79	0.18	0	0	0	0	0	0
4/12/2024 16:47	67605	WARW_T1	37	33	-4	0.69	0.72	0.03	-1.15	-1.15	0	0	0	0	0	0
4/12/2024 16:47	12601	MACA_T1	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
4/12/2024 16:48	47401	PENS_T1	2	0	-2	0.25	0	-0.25	0.65	0.66	0	0	0	0	0	0
4/12/2024 16:48	47403	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/12/2024 16:49	43801	SWIL_T1	9	13	4	0.86	0.65	-0.21	0	0	0	0	0	0	0	0
4/12/2024 16:49	43802	SWIL_T1	0	0	0	0	0	0	-0.31	-0.32	1	1	0	600	600	0
4/12/2024 16:49	47401	PENS_T1	2	0	-2	0.25	0	-0.25	0.65	0.66	0	0	0	0	0	0
4/12/2024 16:49	47403	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/12/2024 16:50	45902	AUBU_T1	1	3	2	0.1	0.43	0.33	-0.91	-0.94	1	1	0	600	600	0
4/12/2024 16:51	65603	QVIL_T2	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
4/12/2024 16:51	47401	PENS_T1	2	0	-2	0.25	0	-0.25	0.65	0.66	0	0	0	0	0	0
4/12/2024 16:51	47403	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/12/2024 16:52	12807	MICK_T1	1	1	0	0.6	0.4	-0.2	-0.79	0.18	0	0	0	0	0	0
4/12/2024 16:52	59102	WALK_T2	52	72	20	0.24	0.38	0.14	0	0	0	0	0	0	0	0
4/12/2024 16:52	59101	WALK_T2	175	64	-111	0.61	0.53	-0.08	-0.78	-0.7	0	0	0	0	0	0
4/12/2024 16:53	22003	BOHE_T1	0	1	1	0	0.2	0.2	0.12	0.13	0	0	0	0	0	0
4/12/2024 16:54	24105	EHAZ_T1	4	4	0	5.65	5.65	0	0	0	0	0	0	0	0	0
4/12/2024 16:54	59102	WALK_T2	52	72	20	0.24	0.38	0.14	0.29	0.3	0	0	0	0	0	0
4/12/2024 16:54	24104	EHAZ_T1	1	0	-1	0.2	0	-0.2	-0.96	-0.97	1	1	0	1200	1200	0
4/12/2024 16:54	59101	WALK_T2	175	64	-111	0.61	0.53	-0.08	0	0	0	0	0	0	0	0
4/12/2024 16:56	45902	AUBU_T1	1	3	2	0.1	0.43	0.33	-0.94	-0.97	1	1	0	600	600	0
4/12/2024 16:56	24902	WHHA_T1	2	1	-1	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
4/12/2024 16:58	61103	BERK_T5	6	5	-1	0.17	0.14	-0.03	0.03	-0.01	0	0	0	0	0	0
4/12/2024 16:58	22602	KIMB_T1	1	0	-1	0.2	0.2	0	0.35	0.33	0	0	0	0	0	0
4/12/2024 16:58	13804	SALI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/12/2024 16:58	13807	SALI_T1	3	0	-3	0.13	0	-0.13	0.12	0.13	0	0	0	0	0	0
4/12/2024 16:58	13805	SALI_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/12/2024 16:58	61102	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/12/2024 16:58	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1.01	0	0	0	0	0	0
4/12/2024 17:01	45902	AUBU_T1	2	2	0	0.45	0.55	0.1	-0.94	-0.97	1	1	0	600	600	0
4/12/2024 17:04	43801	SWIL_T1	13	13	0	0.64	0.62	-0.02	0	0	0	0	0	0	0	0
4/12/2024 17:04	43802	SWIL_T1	0	0	0	0	0	0	-0.32	-0.32	1	1	0	600	600	0
4/12/2024 17:05	57403	SPAN_T1	98	36	-62	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
4/12/2024 17:05	57401	SPAN_T1	14	4	-10	0.31	0.55	0.24	-1.25	-1.18	1	1	0	600	600	0
4/12/2024 17:07	60501	NMAN_T2	3	3	0	4.97	4.77	-0.2	0	0	0	0	0	0	0	0
4/12/2024 17:07	47103	MARL_T2	12	21	9	0.18	0.16	-0.02	-0.61	-0.7	0	0	0	0	0	0
4/12/2024 17:07	60502	NMAN_T2	0	0	0	0	0	0	-0.51	-0.45	0	0	0	0	0	0
4/12/2024 17:07	47102	MARL_T2	7	8	1	0.29	0.31	0.02	0	0	0	0	0	0	0	0
4/12/2024 17:08	51101	CARL_T1	0	0	0	0	0	0	-0.78	-0.83	0	0	0	0	0	0
4/12/2024 17:08	51108	CARL_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/12/2024 17:08	51104	CARL_T1	0	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0
4/12/2024 17:08	47103	MARL_T2	12	21	9	0.18	0.16	-0.02	-0.7	-0.66	0	0	0	0	0	0
4/12/2024 17:08	47102	MARL_T2	7	8	1	0.29	0.31	0.02	0	0	0	0	0	0	0	0
4/12/2024 17:08	51102	CARL_T1	39	86	47	0.15	0.21	0.06	0	0	0	0	0	0	0	0
4/12/2024 17:10	51108	CARL_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/12/2024 17:10	51104	CARL_T1	0	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0
4/12/2024 17:10	51102	CARL_T1	39	86	47	0.15	0.21	0.06	0	0	0	0	0	0	0	0
4/12/2024 17:10	51101	CARL_T1	0	0	0	0	0	0	-0.83	-0.85	0	0	0	0	0	0
4/12/2024 17:12	51108	CARL_T1	1	1	0	0.4	0.5	0.1	-0.51	-0.52	0	0	0	0	0	0
4/12/2024 17:12	48901	FOSP_T2	1	0	-1	0.1	0	-0.1	-0.37	-0.4	1	1	0	600	600	0
4/12/2024 17:12	51102	CARL_T1	39	86	47	0.15	0.21	0.06	0	0	0	0	0	0	0	0
4/12/2024 17:12	45902	AUBU_T1	2	2	0	0.45	0.55	0.1	-0.97	-0.97	1	1	0	600	600	0
4/12/2024 17:12	51104	CARL_T1	0	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0
4/12/2024 17:13	48901	FOSP_T2	1	0	-1	0.1	0	-0.1	-1.12	-1.2	3	3	0	1800	1800	0
4/12/2024 17:14	48901	FOSP_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/12/2024 17:14	48902	FOSP_T2	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
4/12/2024 17:14	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
4/12/2024 17:14	15702	TANN_T2	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
4/12/2024 17:15	12606	MACA_T1	0	0	0	0	0	0	-0.37	-0.37	1	1	0	900	900	0
4/12/2024 17:15	15702	TANN_T2	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
4/12/2024 17:15	15703	TANN_T2	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
4/12/2024 17:17	45902	AUBU_T1	2	23	21	0.55	0.14	-0.41	-0.97	-0.97	1	1	0	600	600	0
4/12/2024 17:27	45902	AUBU_T1	2	23	21	0.55	0.14	-0.41	-0.97	-1.01	1	1	0	600	600	0
4/12/2024 17:29	61102	BERK_T5	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/12/2024 17:29	61101	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 17:29	61103	BERK_T5	5	0	-5	0.14	0	-0.14	0.03	-0.01	0	0	0	0	0	0
4/12/2024 17:30	61103	BERK_T5	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
4/12/2024 17:30	61102	BERK_T5	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/12/2024 17:30	61101	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/12/2024 17:30	22003	BOHE_T1	0	1	1	0	0.3	0.3	0.13	0.14	0	0	0	0	0	0
4/12/2024 17:32	45902	AUBU_T1	1	23	22	0.5	0.13	-0.37	-0.97	-1.01	1	1	0	600	600	0
4/12/2024 17:35	12605	MACA_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
4/12/2024 17:38	54601	SUMM_T2	12	12	0	0.58	0.68	0.1	-1.99	-2.02	2	2	0	2100	2100	0
4/12/2024 17:39	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 17:39	12605	MACA_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
4/12/2024 17:40	13803	SALI_T1	0	0	0	0	0	0	-0.05	0	2	2	0	2400	2400	0
4/12/2024 17:41	13803	SALI_T1	0	0	0	0	0	0	-0.05	0	2	2	0	2400	2400	0
4/12/2024 17:44	51002	NHAR_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
4/12/2024 17:44	51004	NHAR_T1	13	13	0	1.11	0.95	-0.16	-0.44	-0.43	0	0	0	0	0	0
4/12/2024 17:45	13803	SALI_T1	0	0	0	0	0	0	-0.05	0	2	2	0	2400	2400	0
4/12/2024 17:49	15203	SFAR_T2	1	0	-1	0.1	0	-0.1	-1.52	-1.52	0	0	0	0	0	0
4/12/2024 17:51	47104	MARL_T1	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
4/12/2024 17:52	15203	SFAR_T2	1	0	-1	0.1	0	-0.1	-1.52	-1.52	0	0	0	0	0	0
4/12/2024 17:55	47102	MARL_T2	12	17	5	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
4/12/2024 17:55	47103	MARL_T2	24	37	13	0.19	0.21	0.02	-0.61	-0.66	0	0	0	0	0	0
4/12/2024 18:00	20603	GRWO_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
4/12/2024 18:12	24702	FLND_T2	0	0	0	0	0	0	1.24	1.3	0	0	0	0	0	0
4/12/2024 18:12	12601	MACA_T1	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
4/12/2024 18:15	50201	HARR_T3	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/12/2024 18:15	50105	HARR_T3	8	8	0	5.8	5.74	-0.06	0	0	0	0	0	0	0	0
4/12/2024 18:15	50107	HARR_T3	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
4/12/2024 18:17	64701	LITI_T1	0	0	0	0	0	0	0.22	0.15	0	0	0	0	0	0
4/12/2024 18:18	64701	LITI_T1	0	0	0	0	0	0	0.22	0.15	0	0	0	0	0	0
4/12/2024 18:18	45702	LIND_T2	45	67	22	0.22	0.22	0	-0.67	-0.68	0	0	0	0	0	0
4/12/2024 18:20	44902	SCOT_T2	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
4/12/2024 18:22	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 18:24	15204	SFAR_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
4/12/2024 18:28	26703	HEML_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	600	600	0
4/12/2024 18:29	15204	SFAR_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
4/12/2024 18:32	64302	LINC_T2	0	0	0	0	0	0	1.06	1.04	0	0	0	0	0	0
4/12/2024 18:33	41901	REED_T1	9	9	0	0.59	0.76	0.17	0	0	0	0	0	0	0	0
4/12/2024 18:33	15103	UPHA_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
4/12/2024 18:33	41902	REED_T1	0	0	0	0	0	0	1.05	1.02	0	0	0	0	0	0
4/12/2024 18:34	41902	REED_T1	0	0	0	0	0	0	1.05	1.02	0	0	0	0	0	0
4/12/2024 18:34	41901	REED_T1	9	9	0	0.59	0.76	0.17	0	0	0	0	0	0	0	0
4/12/2024 18:34	41903	REED_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
4/12/2024 18:35	65903	SAKR_T2	0	0	0	0	0	0	-1.34	-1.34	3	3	0	2100	2100	0
4/12/2024 18:35	65901	SAKR_T2	1	1	0	9.9	10	0.1	0	0	0	0	0	0	0	0
4/12/2024 18:35	41902	REED_T1	0	0	0	0	0	0	1.05	1.02	0	0	0	0	0	0
4/12/2024 18:35	41901	REED_T1	9	9	0	0.59	0.76	0.17	0	0	0	0	0	0	0	0
4/12/2024 18:36	40501	CRES_T2	2	3	1	0.1	0.17	0.07	0	0	0	0	0	0	0	0
4/12/2024 18:36	40502	CRES_T2	4	9	5	0.3	0.35	0.05	1.03	1.02	0	0	0	0	0	0
4/12/2024 18:38	23001	SAJO_T1	0	0	0	0	0	0	0.02	0.05	0	0	0	0	0	0
4/12/2024 18:38	15103	UPHA_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
4/12/2024 18:42	66501	SMAN_T2	0	1	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/12/2024 18:42	66503	SMAN_T2	6	49	43	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/12/2024 18:42	66504	SMAN_T2	0	0	0	0	0	0	-0.45	-0.53	0	0	0	0	0	0
4/12/2024 18:49	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 18:49	12601	MACA_T1	0	0	0	0	0	0	0.74	0.67	0	0	0	0	0	0
4/12/2024 18:50	55001	NEWP_T1	0	0	0	0	0	0	-0.34	-0.39	0	0	0	0	0	0
4/12/2024 18:50	55002	NEWP_T1	6	6	0	0.88	0.8	-0.08	0	0	0	0	0	0	0	0
4/12/2024 18:50	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 18:51	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 18:52	49804	UNIV_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
4/12/2024 18:53	15001	BLMO_T1	4	4	0	0.68	0.43	-0.25	0	0	0	0	0	0	0	0
4/12/2024 18:53	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 18:58	15001	BLMO_T1	4	4	0	0.68	0.43	-0.25	0	0	0	0	0	0	0	0
4/12/2024 18:59	22003	BOHE_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/12/2024 20:10	67803	WLAN_T1	0	0	0	0	0	0	-0.94	-0.93	0	0	0	0	0	0
4/12/2024 20:10	67805	WLAN_T1	16	105	89	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/12/2024 20:12	67805	WLAN_T1	16	105	89	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/12/2024 20:12	67803	WLAN_T1	0	0	0	0	0	0	-0.94	-0.93	0	0	0	0	0	0
4/12/2024 20:13	67805	WLAN_T1	16	105	89	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/12/2024 20:13	67803	WLAN_T1	0	0	0	0	0	0	-1.88	-1.86	0	0	0	0	0	0
4/12/2024 20:18	41802	GOCI_T2	33	31	-2	0.38	0.45	0.07	0	0	0	0	0	0	0	0
4/12/2024 20:18	41801	GOCI_T2	92	147	55	0.24	0.28	0.04	0	0	0	0	0	0	0	0
4/12/2024 20:23	50202	HARR_T3	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/12/2024 20:23	50201	HARR_T3	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/12/2024 20:23	50103	HARR_T3	2	2	0	0.5	0.85	0.35	-1.1	-1.05	1	1	0	1200	1200	0
4/12/2024 20:23	50105	HARR_T3	8	8	0	6.09	5.84	-0.25	0	0	0	0	0	0	0	0
4/12/2024 20:28	11601	CEAL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 20:28	11603	CEAL_T1	0	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0
4/12/2024 20:29	64801	MONE_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/12/2024 20:29	64802	MONE_T2	0	1	1	0	0.2	0.2	0.06	0.14	0	0	0	0	0	0
4/12/2024 20:31	62104	ELAN_T1	0	1	1	0	0.1	0.1	0.6	0.45	1	1	0	1200	1200	0
4/12/2024 20:31	62105	ELAN_T1	155	226	71	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/12/2024 20:31	62101	ELAN_T1	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
4/12/2024 20:31	62103	ELAN_T1	1	5	4	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/12/2024 20:31	62106	ELAN_T1	13	19	6	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
4/12/2024 20:33	62104	ELAN_T1	0	1	1	0	0.1	0.1	0.6	0.45	1	1	0	1200	1200	0
4/12/2024 20:33	62101	ELAN_T1	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
4/12/2024 20:33	62105	ELAN_T1	155	226	71	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/12/2024 20:33	62106	ELAN_T1	13	19	6	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
4/12/2024 20:33	62103	ELAN_T1	1	5	4	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/12/2024 20:35	25503	MADI_T1	0	1	1	0	0.1	0.1	-1.01	-1.01	0	0	0	0	0	0
4/12/2024 20:38	57002	WHHI_T2	0	0	0	0	0	0	-1.54	-1.53	1	1	0	1200	1200	0
4/12/2024 20:38	57006	WHHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/12/2024 20:40	62104	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 20:40	62106	ELAN_T1	13	19	6	0.28	0.27	-0.01	-0.01	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/12/2024 20:40	62105	ELAN_T1	155	226	71	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/12/2024 20:40	62101	ELAN_T1	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
4/12/2024 20:40	62103	ELAN_T1	1	5	4	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/12/2024 21:00	42903	MIDD_T2	36	101	65	0.3	0.3	0	0	0	0	0	0	0	0	0
4/12/2024 21:00	42902	MIDD_T2	159	241	82	0.37	0.52	0.15	-0.6	-0.55	0	0	0	0	0	0
4/12/2024 21:00	42901	MIDD_T2	311	443	132	0.34	0.51	0.17	0	0	0	0	0	0	0	0
4/12/2024 21:02	42902	MIDD_T2	159	241	82	0.37	0.52	0.15	-0.6	-0.55	0	0	0	0	0	0
4/12/2024 21:02	42901	MIDD_T2	311	443	132	0.34	0.51	0.17	0	0	0	0	0	0	0	0
4/12/2024 21:02	42903	MIDD_T2	36	101	65	0.3	0.3	0	0	0	0	0	0	0	0	0
4/12/2024 21:11	65702	RVIL_T2	0	0	0	0	0	0	-0.66	-0.69	0	0	0	0	0	0
4/12/2024 21:12	46004	BERW_T2	50	249	199	0.16	0.23	0.07	0	0	0	0	0	0	0	0
4/12/2024 21:12	46003	BERW_T2	88	224	136	0.18	0.3	0.12	0	0	0	0	0	0	0	0
4/12/2024 21:12	46002	BERW_T2	51	166	115	0.15	0.22	0.07	-0.26	-0.25	0	0	0	0	0	0
4/12/2024 21:18	47001	HUGH_T2	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
4/12/2024 21:18	47002	HUGH_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/12/2024 21:20	48901	FOSP_T2	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
4/12/2024 21:21	43304	WATS_T2	0	0	0	0	0	0	0.18	0.23	0	0	0	0	0	0
4/12/2024 21:21	43302	WATS_T2	4	4	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
4/12/2024 21:21	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:21	13501	MCMI_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
4/12/2024 21:22	46004	BERW_T2	129	278	149	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/12/2024 21:22	46003	BERW_T2	147	259	112	0.22	0.3	0.08	0	0	0	0	0	0	0	0
4/12/2024 21:22	46002	BERW_T2	96	180	84	0.18	0.23	0.05	-0.26	-0.25	0	0	0	0	0	0
4/12/2024 21:23	13501	MCMI_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
4/12/2024 21:25	43301	WATS_T2	0	1	1	0	0	0	0.16	0.18	0	0	0	0	0	0
4/12/2024 21:25	43302	WATS_T2	4	4	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
4/12/2024 21:25	62607	ENGL_T1	0	0	0	0	0	0	-1.2	-1.2	1	1	0	300	300	0
4/12/2024 21:25	41802	GOCI_T2	11	15	4	0.18	0.27	0.09	0	0	0	0	0	0	0	0
4/12/2024 21:25	41801	GOCI_T2	16	62	46	0.13	0.19	0.06	0	0	0	0	0	0	0	0
4/12/2024 21:25	46001	BERW_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
4/12/2024 21:25	61303	EARL_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/12/2024 21:26	49803	UNIV_T1	0	0	0	0	0	0	-1.18	-1.2	0	0	0	0	0	0
4/12/2024 21:26	48902	FOSP_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
4/12/2024 21:27	51003	NHAR_T1	3	4	1	0.17	0.18	0.01	0	0	0	0	0	0	0	0
4/12/2024 21:27	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/12/2024 21:27	51002	NHAR_T1	1	1	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
4/12/2024 21:27	46003	BERW_T2	147	259	112	0.22	0.3	0.08	0	0	0	0	0	0	0	0
4/12/2024 21:27	51004	NHAR_T1	7	13	6	1.53	1.2	-0.33	-0.45	-0.48	0	0	0	0	0	0
4/12/2024 21:27	46002	BERW_T2	96	180	84	0.18	0.23	0.05	0	0	0	0	0	0	0	0
4/12/2024 21:27	46004	BERW_T2	129	278	149	0.17	0.23	0.06	-1.62	-1.53	0	0	0	0	0	0
4/12/2024 21:28	46002	BERW_T2	96	180	84	0.18	0.23	0.05	0	0	0	0	0	0	0	0
4/12/2024 21:28	50105	HARR_T3	8	8	0	5.56	5.55	-0.01	0	0	0	0	0	0	0	0
4/12/2024 21:28	11801	FRAN_T2	0	1	1	0	0.1	0.1	-0.06	-0.04	0	0	0	0	0	0
4/12/2024 21:28	43201	MVIL_T2	1	2	1	0.4	0.3	-0.1	-0.41	-0.42	0	0	0	0	0	0
4/12/2024 21:28	53901	HALI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:28	43202	MVIL_T2	156	181	25	0.76	1.01	0.25	0	0	0	0	0	0	0	0
4/12/2024 21:28	50102	HARR_T3	7	12	5	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/12/2024 21:28	46004	BERW_T2	129	278	149	0.17	0.23	0.06	-0.81	-0.77	0	0	0	0	0	0
4/12/2024 21:28	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
4/12/2024 21:28	50202	HARR_T3	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
4/12/2024 21:28	53903	HALI_T2	2	2	0	1.25	1.15	-0.1	-0.21	-0.21	0	0	0	0	0	0
4/12/2024 21:28	50107	HARR_T3	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
4/12/2024 21:28	50103	HARR_T3	2	2	0	0.8	1.25	0.45	0	0	0	0	0	0	0	0
4/12/2024 21:28	46003	BERW_T2	147	259	112	0.22	0.3	0.08	0	0	0	0	0	0	0	0
4/12/2024 21:28	50201	HARR_T3	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/12/2024 21:29	53601	DALM_T2	1	1	0	0.8	1	0.2	-0.15	-0.12	0	0	0	0	0	0
4/12/2024 21:29	54601	SUMM_T2	11	9	-2	0.56	0.51	-0.05	-1.98	-2.03	2	2	0	2100	2100	0
4/12/2024 21:30	12605	MACA_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
4/12/2024 21:30	47401	PENS_T1	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
4/12/2024 21:30	62605	ENGL_T1	0	3	3	0	0.1	0.1	-0.86	-0.86	0	0	0	0	0	0
4/12/2024 21:30	14201	EALL_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
4/12/2024 21:30	48901	FOSP_T2	0	0	0	0	0	0	0.42	0.46	0	0	0	0	0	0
4/12/2024 21:31	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
4/12/2024 21:31	51102	CARL_T1	99	74	-25	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
4/12/2024 21:31	65503	MOJO_T2	0	18	18	0	0.26	0.26	-0.61	-0.66	0	0	0	0	0	0
4/12/2024 21:31	47104	MARL_T1	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
4/12/2024 21:31	40101	HUNT_T2	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
4/12/2024 21:31	51101	CARL_T1	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
4/12/2024 21:31	57303	MOAL_T2	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
4/12/2024 21:31	51104	CARL_T1	1	0	-1	3.7	0	-3.7	0	0	0	0	0	0	0	0
4/12/2024 21:31	63403	HONY_T2	0	0	0	0	0	0	0.15	0.1	0	0	0	0	0	0
4/12/2024 21:31	57306	MOAL_T2	0	0	0	0	0	0	-3.31	-3.29	1	1	0	1200	1200	0
4/12/2024 21:31	65702	RVIL_T2	0	2	2	0	0.15	0.15	-0.69	-0.69	0	0	0	0	0	0
4/12/2024 21:31	63402	HONY_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
4/12/2024 21:31	57301	MOAL_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:31	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
4/12/2024 21:31	57304	MOAL_T2	28	61	33	0.28	0.41	0.13	0	0	0	0	0	0	0	0
4/12/2024 21:32	15701	TANN_T1	36	36	0	0.36	0.29	-0.07	0	0	0	0	0	0	0	0
4/12/2024 21:32	24702	RIND_T2	0	0	0	0	0	0	0.92	1.17	0	0	0	0	0	0
4/12/2024 21:32	15704	TANN_T1	136	144	8	0.22	0.24	0.02	-1.38	-1.46	0	0	0	0	0	0
4/12/2024 21:32	10602	BLGL_T2	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
4/12/2024 21:33	41305	FISH_T1	16	26	10	0.15	0.15	0	0	0	0	0	0	0	0	0
4/12/2024 21:33	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:33	45802	HEGI_T2	1	42	41	0.1	0.78	0.68	1.02	1.01	0	0	0	0	0	0
4/12/2024 21:33	47401	PENS_T1	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
4/12/2024 21:33	41301	FISH_T1	177	208	31	0.29	0.27	-0.02	-0.11	-0.12	0	0	0	0	0	0
4/12/2024 21:34	46004	BERW_T2	245	250	5	0.23	0.21	-0.02	-0.81	-0.77	0	0	0	0	0	0
4/12/2024 21:34	21403	EXET_T2	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
4/12/2024 21:34	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:34	41902	REED_T1	1	0	-1	0.2	0	-0.2	1.01	0.92	0	0	0	0	0	0
4/12/2024 21:34	54601	SUMM_T2	9	9	0	0.46	0.38	-0.08	0	0	0	0	0	0	0	0
4/12/2024 21:34	45801	HEGI_T1	0	0	0	0	0	0	-0.49	-0.52	1	1	0	900	900	0
4/12/2024 21:34	42401	GIMA_T1	127	147	20	0.42	0.44	0.02	0	0	0	0	0	0	0	0
4/12/2024 21:34	54603	SUMM_T2	0	0	0	0	0	0	-0.18	-0.18	1	1	0	900	900	0
4/12/2024 21:34	58402	MORO_T1	0	0	0	0	0	0	-0.66	-0.68	4	4	0	3000	3000	0
4/12/2024 21:34	46003	BERW_T2	222	253	31	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
4/12/2024 21:34	46002	BERW_T2	161	166	5	0.22	0.22	0	0	0	0	0	0	0	0	0
4/12/2024 21:35	44902	SCOT_T2	1	2	1	0.1	0.1	0	-1.02	-1.03	0	0	0	0	0	0
4/12/2024 21:35	63404	HONY_T1	18	29	11	0.14	0.18	0.04	0	0	0	0	0	0	0	0
4/12/2024 21:35	20601	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:35	57306	MOAL_T2	0	0	0	0	0	0	-3.31	-3.29	1	1	0	1200	1200	0
4/12/2024 21:35	51603	DUKE_T1	2	0	-2	0.45	0	-0.45	-0.57	-0.51	0	0	0	0	0	0
4/12/2024 21:35	20603	GRWO_T2	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
4/12/2024 21:35	60502	NMAN_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
4/12/2024 21:35	20401	ASHF_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
4/12/2024 21:35	64302	LINC_T2	0	0	0	0	0	0	0.88	0.94	0	0	0	0	0	0
4/12/2024 21:35	57303	MOAL_T2	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
4/12/2024 21:35	57301	MOAL_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:35	20403	ASHF_T2	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
4/12/2024 21:35	52501	PROG_T1	0	0	0	0	0	0	0.34	0.33	1	1	0	300	300	0
4/12/2024 21:35	42201	SHEN_T2	0	0	0	0	0	0	1.14	1.12	0	0	0	0	0	0
4/12/2024 21:35	60501	NMAN_T2	3	3	0	4.77	5.13	0.36	0	0	0	0	0	0	0	0
4/12/2024 21:35	57304	MOAL_T2	28	61	33	0.28	0.41	0.13	0	0	0	0	0	0	0	0
4/12/2024 21:35	63401	HONY_T1	0	0	0	0	0	0	0.63	0.59	0	0	0	0	0	0
4/12/2024 21:35	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:36	61103	BERK_T5	4	210	206	0.1	0.12	0.02	-0.01	-0.01	0	0	0	0	0	0
4/12/2024 21:36	28704	HAML_T2	1	1	0	0.2	0.2	0	-0.01	-0.01	0	0	0	0	0	0
4/12/2024 21:36	28703	HAML_T2	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
4/12/2024 21:36	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.24	0	0	0	0	0	0
4/12/2024 21:36	67001	STHI_T2	778	911	133	0.43	0.52	0.09	0	0	0	0	0	0	0	0
4/12/2024 21:36	61102	BERK_T5	1	4	3	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
4/12/2024 21:36	53903	HALI_T2	2	2	0	1.15	0.8	-0.35	0	0	0	0	0	0	0	0
4/12/2024 21:36	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
4/12/2024 21:36	51102	CARL_T1	99	74	-25	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
4/12/2024 21:36	51104	CARL_T1	1	0	-1	3.7	0	-3.7	0	0	0	0	0	0	0	0
4/12/2024 21:36	51101	CARL_T1	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
4/12/2024 21:36	62605	ENGL_T1	0	3	3	0	0.1	0.1	-0.86	-0.86	0	0	0	0	0	0
4/12/2024 21:36	61503	EPET_T1	0	34	34	0	0.15	0.15	-0.52	-0.55	0	0	0	0	0	0
4/12/2024 21:36	67002	STHI_T2	650	882	232	0.26	0.33	0.07	0.56	0.53	0	0	0	0	0	0
4/12/2024 21:36	13302	ORVI_T2	0	0	0	0	0	0	1.23	1.25	0	0	0	0	0	0
4/12/2024 21:36	64101	REFR_T1	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
4/12/2024 21:36	61101	BERK_T5	2	46	44	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
4/12/2024 21:36	53902	HALI_T2	1	1	0	5.8	5.3	-0.5	0	0	0	0	0	0	0	0
4/12/2024 21:36	65503	MOJO_T2	0	18	18	0	0.26	0.26	-0.61	-0.66	0	0	0	0	0	0
4/12/2024 21:36	26703	HEML_T1	0	0	0	0	0	0	-0.93	-0.92	1	1	0	600	600	0
4/12/2024 21:36	61502	EPET_T1	54	173	119	0.19	0.24	0.05	0	0	0	0	0	0	0	0
4/12/2024 21:36	53901	HALI_T2	1	0	-1	0.5	0	-0.5	0.05	0.05	0	0	0	0	0	0
4/12/2024 21:36	51402	LYKE_T1	12	8	-4	0.16	0.11	-0.05	0	0	0	0	0	0	0	0
4/12/2024 21:37	67605	WARW_T1	27	39	12	0.62	0.59	-0.03	0	0	0	0	0	0	0	0
4/12/2024 21:37	61103	BERK_T5	4	210	206	0.1	0.12	0.02	-0.01	-0.01	0	0	0	0	0	0
4/12/2024 21:37	45802	HEGI_T2	1	42	41	0.1	0.78	0.68	1.02	1.01	0	0	0	0	0	0
4/12/2024 21:37	67702	WERN_T2	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
4/12/2024 21:37	63305	GREE_T1	1	7	6	0.2	0.17	-0.03	-1.24	-1.24	0	0	0	0	0	0
4/12/2024 21:37	41902	REED_T1	1	0	-1	0.2	0	-0.2	1.01	0.92	0	0	0	0	0	0
4/12/2024 21:37	41202	KENM_T2	1	2	1	0.3	0.4	0.1	0.45	0.47	0	0	0	0	0	0
4/12/2024 21:37	50202	HARR_T3	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
4/12/2024 21:37	61101	BERK_T5	2	46	44	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
4/12/2024 21:37	12002	HATF_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/12/2024 21:37	62607	ENGL_T1	0	0	0	0	0	0	-1.2	-1.2	1	1	0	300	300	0
4/12/2024 21:37	15702	TANN_T2	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
4/12/2024 21:37	60501	NMAN_T2	3	3	0	4.77	5.13	0.36	0	0	0	0	0	0	0	0
4/12/2024 21:37	50201	HARR_T3	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/12/2024 21:37	60502	NMAN_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
4/12/2024 21:37	44201	POIN_T1	57	1	-56	0.14	0.1	-0.04	-1.53	-1.51	1	1	0	1200	1200	0
4/12/2024 21:37	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.24	0	0	0	0	0	0
4/12/2024 21:37	64204	KINZ_T1	1	1	0	0.8	1.5	0.7	0	0	0	0	0	0	0	0
4/12/2024 21:37	47401	PENS_T1	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
4/12/2024 21:37	47001	HUGH_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
4/12/2024 21:37	50103	HARR_T3	2	2	0	1.25	1.05	-0.2	-1.06	-1.12	1	1	0	1200	1200	0
4/12/2024 21:37	66504	SMAN_T2	0	0	0	0	0	0	-0.62	-0.68	0	0	0	0	0	0
4/12/2024 21:37	57403	SPAN_T1	124	73	-51	0.29	0.31	0.02	-0.06	-0.06	0	0	0	0	0	0
4/12/2024 21:37	50102	HARR_T3	12	2	-10	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
4/12/2024 21:37	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/12/2024 21:37	61102	BERK_T5	1	4	3	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
4/12/2024 21:37	57401	SPAN_T1	2	2	0	0.55	0.65	0.1	-0.96	-1.17	1	1	0	600	600	0
4/12/2024 21:37	49804	UNIV_T1	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
4/12/2024 21:37	41903	REED_T1	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
4/12/2024 21:37	62605	ENGL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:37	50105	HARR_T3	8	8	0	5.55	5.69	0.14	0	0	0	0	0	0	0	0
4/12/2024 21:37	67603	WARW_T1	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
4/12/2024 21:37	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
4/12/2024 21:37	12006	HATF_T1	0	0	0	0	0	0	0.54	0.5	0	0	0	0	0	0
4/12/2024 21:37	51402	LYKE_T1	12	8	-4	0.16	0.11	-0.05	0	0	0	0	0	0	0	0
4/12/2024 21:37	15703	TANN_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
4/12/2024 21:37	64201	KINZ_T1	0	2	2	0	0.45	0.45	0.57	0.59	0	0	0	0	0	0
4/12/2024 21:38	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/12/2024 21:38	57403	SPAN_T1	124	73	-51	0.29	0.31	0.02	0	0	0	0	0	0	0	0
4/12/2024 21:38	67001	STHI_T2	778	911	133	0.43	0.52	0.09	0	0	0	0	0	0	0	0
4/12/2024 21:38	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:38	40302	TAMA_T3	70	94	24	0.96	0.78	-0.18	0.34	0.28	0	0	0	0	0	0
4/12/2024 21:38	60501	NMAN_T2	3	3	0	4.77	5.13	0.36	0	0	0	0	0	0	0	0
4/12/2024 21:38	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
4/12/2024 21:38	40301	TAMA_T3	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/12/2024 21:38	67703	WERN_T2	0	0	0	0	0	0	0.59	0.62	0	0	0	0	0	0
4/12/2024 21:38	44601	SALE_T2	1	0	-1	0.2	0	-0.2	-0.11	-0.11	0	0	0	0	0	0
4/12/2024 21:38	15702	TANN_T2	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
4/12/2024 21:38	15703	TANN_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
4/12/2024 21:38	61102	BERK_T5	1	4	3	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
4/12/2024 21:38	53901	HALI_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/12/2024 21:38	22003	BOHE_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/12/2024 21:38	61101	BERK_T5	2	46	44	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
4/12/2024 21:38	40303	TAMA_T3	42	44	2	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
4/12/2024 21:38	67002	STHI_T2	650	882	232	0.26	0.33	0.07	0.53	0.47	0	0	0	0	0	0
4/12/2024 21:38	61103	BERK_T5	4	210	206	0.1	0.12	0.02	-0.01	-0.01	0	0	0	0	0	0
4/12/2024 21:38	60502	NMAN_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
4/12/2024 21:38	53902	HALI_T2	1	1	0	5.8	5.3	-0.5	0	0	0	0	0	0	0	0
4/12/2024 21:38	57401	SPAN_T1	2	2	0	0.55	0.65	0.1	-1.17	-1.24	1	1	0	600	600	0
4/12/2024 21:38	47401	PENS_T1	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
4/12/2024 21:38	65201	PRIN_T4	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:38	16301	ALPA_T1	111	158	47	0.16	0.2	0.04	-0.55	-0.57	0	0	0	0	0	0
4/12/2024 21:38	64101	REFR_T1	0	0	0	0	0	0	-0.84	-0.87	0	0	0	0	0	0
4/12/2024 21:38	53903	HALI_T2	2	2	0	1.15	0.8	-0.35	-0.21	-0.22	0	0	0	0	0	0
4/12/2024 21:38	65207	PRIN_T4	14	74	60	0.16	0.17	0.01	0	0	1	1	0	1200	1200	0
4/12/2024 21:38	62605	ENGL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:38	64702	LITI_T2	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
4/12/2024 21:38	42201	SHEN_T2	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
4/12/2024 21:38	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:38	67702	WERN_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
4/12/2024 21:38	61506	EPET_T2	0	0	0	0	0	0	-0.22	-0.27	0	0	0	0	0	0
4/12/2024 21:38	44201	POIN_T1	57	1	-56	0.14	0.1	-0.04	-1.53	-1.51	1	1	0	1200	1200	0
4/12/2024 21:38	65206	PRIN_T4	13	97	84	0.1	0.17	0.07	0	0	0	0	0	0	0	0
4/12/2024 21:38	63802	HEMP_T1	0	0	0	0	0	0	0.03	0.1	0	0	0	0	0	0
4/12/2024 21:38	20403	ASHF_T2	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
4/12/2024 21:38	62607	ENGL_T1	0	0	0	0	0	0	-1.2	-1.22	1	1	0	300	300	0
4/12/2024 21:38	66504	SMAN_T2	0	0	0	0	0	0	-0.68	-0.71	0	0	0	0	0	0
4/12/2024 21:39	46102	MACI_T1	386	398	12	0.6	0.61	0.01	0.33	0.36	0	0	0	0	0	0
4/12/2024 21:39	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
4/12/2024 21:39	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.59	0	0	0	0	0	0
4/12/2024 21:39	51102	CARL_T1	99	74	-25	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
4/12/2024 21:39	57401	SPAN_T1	2	2	0	0.55	0.65	0.1	-2.34	-2.49	2	2	0	1200	1200	0
4/12/2024 21:39	51108	CARL_T1	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
4/12/2024 21:39	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:39	43801	SWIL_T1	2	2	0	3.3	3.3	0	0	0	0	0	0	0	0	0
4/12/2024 21:39	56601	HAMP_T1	0	0	0	0	0	0	-2.11	-1.96	0	0	0	0	0	0
4/12/2024 21:39	61303	EARL_T1	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
4/12/2024 21:39	57104	SPHI_T2	1	1	0	3.9	0	-3.9	0	0	0	0	0	0	0	0
4/12/2024 21:39	67002	STHI_T2	650	882	232	0.26	0.33	0.07	1.06	0.95	0	0	0	0	0	0
4/12/2024 21:39	64204	KINZ_T1	1	1	0	0.8	1.5	0.7	0	0	0	0	0	0	0	0
4/12/2024 21:39	51104	CARL_T1	1	0	-1	3.7	0	-3.7	0	0	0	0	0	0	0	0
4/12/2024 21:39	45402	WBLO_T2	81	91	10	0.37	0.37	0	-0.93	-0.9	0	0	0	0	0	0
4/12/2024 21:39	67001	STHI_T2	778	911	133	0.43	0.52	0.09	0	0	0	0	0	0	0	0
4/12/2024 21:39	57106	SPHI_T2	3	3	0	1.9	1.93	0.03	0	0	0	0	0	0	0	0
4/12/2024 21:39	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:39	66504	SMAN_T2	0	0	0	0	0	0	-0.68	-0.71	0	0	0	0	0	0
4/12/2024 21:39	58401	MORO_T1	0	0	0	0	0	0	-1.31	-1.31	1	1	0	600	600	0
4/12/2024 21:39	57101	SPHI_T2	6	6	0	1.6	1.6	0	0.25	0.25	0	0	0	0	0	0
4/12/2024 21:39	17401	FOHI_T1	0	0	0	0	0	0	-1.05	-1.06	0	0	0	0	0	0
4/12/2024 21:39	57403	SPAN_T1	124	73	-51	0.29	0.31	0.02	0	0	0	0	0	0	0	0
4/12/2024 21:39	64201	KINZ_T1	0	2	2	0	0.45	0.45	0.59	0.58	0	0	0	0	0	0
4/12/2024 21:39	43802	SWIL_T1	0	0	0	0	0	0	-0.32	-0.36	1	1	0	600	600	0
4/12/2024 21:40	12801	MICK_T1	0	0	0	0	0	0	-0.3	-0.25	1	1	0	600	600	0
4/12/2024 21:40	53901	HALI_T2	1	0	-1	0.5	0	-0.5	0.05	0.03	0	0	0	0	0	0
4/12/2024 21:40	24902	WHHA_T1	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/12/2024 21:40	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
4/12/2024 21:40	46002	BERW_T2	161	166	5	0.22	0.22	0	0	0	0	0	0	0	0	0
4/12/2024 21:40	57401	SPAN_T1	2	2	0	0.55	0.65	0.1	-2.34	-2.49	2	2	0	1200	1200	0
4/12/2024 21:40	61303	EARL_T1	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
4/12/2024 21:40	67502	WEWI_T2	16	98	82	0.13	0.17	0.04	-0.6	-0.61	0	0	0	0	0	0
4/12/2024 21:40	40201	BEGA_T2	0	7	7	0	0.16	0.16	0	0	0	0	0	0	0	0
4/12/2024 21:40	58006	WCAR_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
4/12/2024 21:40	46004	BERW_T2	245	250	5	0.23	0.21	-0.02	-0.77	-0.73	0	0	0	0	0	0
4/12/2024 21:40	12803	MICK_T1	6	1	-5	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/12/2024 21:40	12807	MICK_T1	1	1	0	1.2	0.3	-0.9	0	0	0	0	0	0	0	0
4/12/2024 21:40	56601	HAMP_T1	0	0	0	0	0	0	-2.11	-1.96	0	0	0	0	0	0
4/12/2024 21:40	57403	SPAN_T1	124	73	-51	0.29	0.31	0.02	0	0	0	0	0	0	0	0
4/12/2024 21:40	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:40	40502	CRES_T2	7	18	11	0.21	0.26	0.05	0.94	0.94	0	0	0	0	0	0
4/12/2024 21:40	52501	PROG_T1	0	0	0	0	0	0	0.33	0.29	1	1	0	300	300	0
4/12/2024 21:40	45901	AUBU_T1	0	0	0	0	0	0	1.77	1.8	0	0	0	0	0	0
4/12/2024 21:40	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/12/2024 21:40	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.59	0	0	0	0	0	0
4/12/2024 21:40	50504	MECH_T1	51	294	243	0.15	0.21	0.06	0	0	0	0	0	0	0	0
4/12/2024 21:40	53902	HALI_T2	1	1	0	5.8	5.3	-0.5	0	0	0	0	0	0	0	0
4/12/2024 21:40	60101	COCA_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
4/12/2024 21:40	27502	WEIS_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
4/12/2024 21:40	50502	MECH_T1	1	4	3	3.3	0.98	-2.32	0	0	0	0	0	0	0	0
4/12/2024 21:40	65602	QVIL_T2	2	6	4	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
4/12/2024 21:40	50506	MECH_T1	1	281	280	0.2	0.13	-0.07	-0.19	-0.32	0	0	0	0	0	0
4/12/2024 21:40	65604	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:40	12802	MICK_T1	19	0	-19	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/12/2024 21:40	50503	MECH_T1	0	95	95	0	0.16	0.16	0	0	0	0	0	0	0	0
4/12/2024 21:40	50505	MECH_T1	0	61	61	0	0.13	0.13	0	0	0	0	0	0	0	0
4/12/2024 21:40	53903	HALI_T2	2	2	0	1.15	0.8	-0.35	0	0	0	0	0	0	0	0
4/12/2024 21:40	64101	REFR_T1	0	0	0	0	0	0	-0.84	-0.87	0	0	0	0	0	0
4/12/2024 21:40	65601	QVIL_T2	1	8	7	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/12/2024 21:40	49804	UNIV_T1	0	0	0	0	0	0	0.4	0.45	0	0	0	0	0	0
4/12/2024 21:40	46003	BERW_T2	222	253	31	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
4/12/2024 21:40	67605	WARW_T1	27	39	12	0.62	0.59	-0.03	-1.28	-1.29	0	0	0	0	0	0
4/12/2024 21:40	65603	QVIL_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
4/12/2024 21:40	50501	MECH_T1	4	34	30	1.23	0.34	-0.89	0	0	0	0	0	0	0	0
4/12/2024 21:40	17401	FOHI_T1	0	0	0	0	0	0	-1.05	-1.06	0	0	0	0	0	0
4/12/2024 21:40	61302	EARL_T1	0	0	0	0	0	0	1.16	1.11	0	0	0	0	0	0
4/12/2024 21:40	12605	MACA_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
4/12/2024 21:41	24105	EHAZ_T1	4	4	0	6	5.98	-0.02	0	0	0	0	0	0	0	0
4/12/2024 21:41	20603	GRWO_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
4/12/2024 21:41	20601	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:41	17401	FOHI_T1	0	0	0	0	0	0	-1.05	-1.06	0	0	0	0	0	0
4/12/2024 21:41	60801	BUCK_T1	53	76	23	0.3	0.42	0.12	-0.26	-0.24	0	0	0	0	0	0
4/12/2024 21:41	14201	EALL_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
4/12/2024 21:41	60502	NMAN_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
4/12/2024 21:41	43504	WWIL_T1	13	16	3	0.25	0.29	0.04	0.54	0.47	0	0	0	0	0	0
4/12/2024 21:41	61102	BERK_T5	1	4	3	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
4/12/2024 21:41	60803	BUCK_T1	20	27	7	0.3	0.34	0.04	0	0	0	0	0	0	0	0
4/12/2024 21:41	43506	WWIL_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:41	67605	WARW_T1	27	39	12	0.62	0.59	-0.03	-1.28	-1.29	0	0	0	0	0	0
4/12/2024 21:41	61101	BERK_T5	2	46	44	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
4/12/2024 21:41	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
4/12/2024 21:41	60501	NMAN_T2	3	3	0	4.77	5.13	0.36	0	0	0	0	0	0	0	0
4/12/2024 21:41	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:41	46203	DANV_T2	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
4/12/2024 21:41	11801	FRAN_T2	0	6	6	0	0.1	0.1	-0.04	-0.1	0	0	0	0	0	0
4/12/2024 21:41	57403	SPAN_T1	124	73	-51	0.29	0.31	0.02	0	0	0	0	0	0	0	0
4/12/2024 21:41	24104	EHAZ_T1	0	0	0	0	0	0	-1	-0.99	1	1	0	1200	1200	0
4/12/2024 21:41	63802	HEMP_T1	0	0	0	0	0	0	0.03	0.1	0	0	0	0	0	0
4/12/2024 21:41	48901	FOSP_T2	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
4/12/2024 21:41	60101	COCA_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
4/12/2024 21:41	45602	WOOL_T1	2	2	0	0.15	0.2	0.05	0.36	0.36	0	0	0	0	0	0
4/12/2024 21:41	46903	MNTG_T2	0	0	0	0	0	0	0.32	0.38	0	0	0	0	0	0
4/12/2024 21:41	65702	RVIL_T2	0	2	2	0	0.15	0.15	-0.69	-0.68	0	0	0	0	0	0
4/12/2024 21:41	43503	WWIL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:41	57401	SPAN_T1	2	2	0	0.55	0.65	0.1	-1.17	-1.24	1	1	0	600	600	0
4/12/2024 21:41	61103	BERK_T5	4	210	206	0.1	0.12	0.02	-0.01	0	0	0	0	0	0	0
4/12/2024 21:41	23001	SAJO_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
4/12/2024 21:41	43505	WWIL_T1	1	1	0	2	2.2	0.2	0	0	0	0	0	0	0	0
4/12/2024 21:41	66502	SMAN_T2	0	0	0	0	0	0	-0.07	0	0	0	0	0	0	0
4/12/2024 21:41	65802	RTWN_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
4/12/2024 21:41	42802	SELI_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
4/12/2024 21:42	64702	LITI_T2	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
4/12/2024 21:42	66505	SMAN_T2	0	0	0	0	0	0	-0.27	-0.3	1	1	0	900	900	0
4/12/2024 21:42	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
4/12/2024 21:42	26002	WDAM_T1	9	2	-7	0.28	0.6	0.32	0	0	0	0	0	0	0	0
4/12/2024 21:42	57403	SPAN_T1	124	73	-51	0.29	0.31	0.02	0	0	0	0	0	0	0	0
4/12/2024 21:42	57103	SPHI_T2	0	0	0	0	0	0	-0.35	-0.32	1	1	0	600	600	0
4/12/2024 21:42	26001	WDAM_T1	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
4/12/2024 21:42	46502	LOHA_T1	0	0	0	0	0	0	-1.38	-1.45	1	1	0	1200	1200	0
4/12/2024 21:42	45701	LIND_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/12/2024 21:42	45902	AUBU_T1	0	0	0	0	0	0	-0.92	-1.18	0	0	0	0	0	0
4/12/2024 21:42	13803	SALI_T1	0	0	0	0	0	0	-0.51	-0.4	4	4	0	4800	4800	0
4/12/2024 21:42	52004	LING_T2	1	1	0	0.3	0.4	0.1	0.11	0.11	0	0	0	0	0	0
4/12/2024 21:42	52002	LING_T2	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:42	63801	HEMP_T1	0	0	0	0	0	0	-0.17	-0.48	0	0	0	0	0	0
4/12/2024 21:42	67502	WEWI_T2	16	98	82	0.13	0.17	0.04	-0.6	-0.61	0	0	0	0	0	0
4/12/2024 21:42	44201	POIN_T1	57	1	-56	0.14	0.1	-0.04	-1.51	-1.47	1	1	0	1200	1200	0
4/12/2024 21:42	67001	STHI_T2	778	911	133	0.43	0.52	0.09	0	0	0	0	0	0	0	0
4/12/2024 21:42	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/12/2024 21:42	45702	LIND_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/12/2024 21:42	53902	HALI_T2	1	1	0	5.8	5.3	-0.5	0	0	0	0	0	0	0	0
4/12/2024 21:42	53903	HALI_T2	2	2	0	1.15	0.8	-0.35	0	0	0	0	0	0	0	0
4/12/2024 21:42	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:42	57106	SPHI_T2	3	3	0	1.9	1.93	0.03	0	0	0	0	0	0	0	0
4/12/2024 21:42	41902	REED_T1	1	0	-1	0.2	0	-0.2	0.92	0.92	0	0	0	0	0	0
4/12/2024 21:42	52501	PROG_T1	0	0	0	0	0	0	0.33	0.29	1	1	0	300	300	0
4/12/2024 21:42	57101	SPHI_T2	6	6	0	1.6	1.6	0	0	0	0	0	0	0	0	0
4/12/2024 21:42	65702	RVIL_T2	0	2	2	0	0.15	0.15	-0.69	-0.68	0	0	0	0	0	0
4/12/2024 21:42	46504	LOHA_T1	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
4/12/2024 21:42	67605	WARW_T1	27	39	12	0.62	0.59	-0.03	-1.28	-1.29	0	0	0	0	0	0
4/12/2024 21:42	64201	KINZ_T1	0	2	2	0	0.45	0.45	0.59	0.58	0	0	0	0	0	0
4/12/2024 21:42	45602	WOOL_T1	2	2	0	0.15	0.2	0.05	0.36	0.36	0	0	0	0	0	0
4/12/2024 21:42	66502	SMAN_T2	0	0	0	0	0	0	-0.07	0	0	0	0	0	0	0
4/12/2024 21:42	64204	KINZ_T1	1	1	0	0.8	1.5	0.7	0	0	0	0	0	0	0	0
4/12/2024 21:42	57104	SPHI_T2	1	1	0	3.9	0	-3.9	0	0	0	0	0	0	0	0
4/12/2024 21:42	52006	LING_T2	3	3	0	1.2	1.37	0.17	0	0	0	0	0	0	0	0
4/12/2024 21:42	53901	HALI_T2	1	0	-1	0.5	0	-0.5	0.1	0.05	0	0	0	0	0	0
4/12/2024 21:42	57401	SPAN_T1	2	2	0	0.55	0.65	0.1	-1.17	-1.24	1	1	0	600	600	0
4/12/2024 21:42	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:42	67002	STHI_T2	650	882	232	0.26	0.33	0.07	0.53	0.47	0	0	0	0	0	0
4/12/2024 21:42	13807	SALI_T1	6	7	1	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
4/12/2024 21:43	13901	SEID_T1	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
4/12/2024 21:43	67502	WEWI_T2	16	98	82	0.13	0.17	0.04	-0.6	-0.61	0	0	0	0	0	0
4/12/2024 21:43	50501	MECH_T1	4	34	30	1.23	0.34	-0.89	0	0	0	0	0	0	0	0
4/12/2024 21:43	50505	MECH_T1	0	61	61	0	0.13	0.13	0	0	0	0	0	0	0	0
4/12/2024 21:43	61102	BERK_T5	1	4	3	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
4/12/2024 21:43	53902	HALI_T2	1	1	0	5.8	5.3	-0.5	0	0	0	0	0	0	0	0
4/12/2024 21:43	50504	MECH_T1	51	294	243	0.15	0.21	0.06	0	0	0	0	0	0	0	0
4/12/2024 21:43	10801	CHHI_T1	0	0	0	0	0	0	-1.08	-1.06	1	1	0	900	900	0
4/12/2024 21:43	45702	LIND_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/12/2024 21:43	67401	WAKE_T2	19	80	61	0.19	0.21	0.02	-0.96	-0.98	0	0	0	0	0	0
4/12/2024 21:43	12502	MITR_T2	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
4/12/2024 21:43	40601	PIGR_T1	215	232	17	0.34	0.45	0.11	0	0	0	0	0	0	0	0
4/12/2024 21:43	17401	FOHI_T1	0	0	0	0	0	0	-1.05	-1.06	0	0	0	0	0	0
4/12/2024 21:43	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.59	0	0	0	0	0	0
4/12/2024 21:43	53901	HALI_T2	1	0	-1	0.5	0	-0.5	0.1	0.05	0	0	0	0	0	0
4/12/2024 21:43	45701	LIND_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
4/12/2024 21:43	50502	MECH_T1	1	4	3	3.3	0.98	-2.32	0	0	0	0	0	0	0	0
4/12/2024 21:43	61101	BERK_T5	2	46	44	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
4/12/2024 21:43	67703	WERN_T2	0	0	0	0	0	0	0.59	0.62	0	0	0	0	0	0
4/12/2024 21:43	47401	PENS_T1	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
4/12/2024 21:43	53903	HALI_T2	2	2	0	1.15	0.8	-0.35	0	0	0	0	0	0	0	0
4/12/2024 21:43	64701	LITI_T1	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
4/12/2024 21:43	61103	BERK_T5	4	210	206	0.1	0.12	0.02	-0.01	-0.01	0	0	0	0	0	0
4/12/2024 21:43	55002	NEWP_T1	6	6	0	1.35	1.62	0.27	-0.3	-0.29	0	0	0	0	0	0
4/12/2024 21:43	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:43	20401	ASHF_T2	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
4/12/2024 21:43	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:43	12505	MITR_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
4/12/2024 21:43	67002	STHI_T2	650	882	232	0.26	0.33	0.07	1.06	0.95	0	0	0	0	0	0
4/12/2024 21:43	44502	HAMI_T2	1	1	0	3.5	3.2	-0.3	0	0	0	0	0	0	0	0
4/12/2024 21:43	67001	STHI_T2	778	911	133	0.43	0.52	0.09	0	0	0	0	0	0	0	0
4/12/2024 21:43	44505	HAMI_T2	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
4/12/2024 21:43	59201	THOM_T1	29	56	27	0.46	0.49	0.03	0	0	0	0	0	0	0	0
4/12/2024 21:43	50506	MECH_T1	1	281	280	0.2	0.13	-0.07	-0.37	-0.64	0	0	0	0	0	0
4/12/2024 21:43	40603	PIGR_T1	0	0	0	0	0	0	0.38	0.32	0	0	0	0	0	0
4/12/2024 21:43	67505	WEWI_T1	0	0	0	0	0	0	-0.79	-0.83	2	2	0	1800	1800	0
4/12/2024 21:43	42002	MNVL_T2	1	1	0	3	2.9	-0.1	0.15	0.12	0	0	0	0	0	0
4/12/2024 21:43	50503	MECH_T1	0	95	95	0	0.16	0.16	0	0	0	0	0	0	0	0
4/12/2024 21:43	55001	NEWP_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/12/2024 21:43	59202	THOM_T1	422	585	163	0.57	0.63	0.06	0	0	0	0	0	0	0	0
4/12/2024 21:43	65901	SAKR_T2	0	0	0	0	0	0	-1.56	-1.6	1	1	0	900	900	0
4/12/2024 21:44	67703	WERN_T2	0	0	0	0	0	0	0.59	0.62	0	0	0	0	0	0
4/12/2024 21:44	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/12/2024 21:44	65201	PRIN_T4	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:44	65601	QVIL_T2	1	8	7	0.1	0.11	0.01	-0.35	-0.32	0	0	0	0	0	0
4/12/2024 21:44	12102	SALL_T2	0	2	2	0	0.1	0.1	0.24	0.22	0	0	0	0	0	0
4/12/2024 21:44	65903	SAKR_T2	0	0	0	0	0	0	-1.54	-1.47	3	3	0	2100	2100	0
4/12/2024 21:44	65604	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:44	14204	EALL_T2	0	0	0	0	0	0	-0.84	-0.88	0	0	0	0	0	0
4/12/2024 21:44	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:44	62605	ENGL_T1	0	3	3	0	0.1	0.1	-0.86	-0.87	0	0	0	0	0	0
4/12/2024 21:44	60803	BUCK_T1	20	27	7	0.3	0.34	0.04	0	0	0	0	0	0	0	0
4/12/2024 21:44	41802	GOCI_T2	14	15	1	0.24	0.33	0.09	0	0	0	0	0	0	0	0
4/12/2024 21:44	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:44	40601	PIGR_T1	215	232	17	0.34	0.45	0.11	-0.21	-0.19	0	0	0	0	0	0
4/12/2024 21:44	66504	SMAN_T2	0	0	0	0	0	0	-0.68	-0.71	0	0	0	0	0	0
4/12/2024 21:44	50502	MECH_T1	1	4	3	3.3	0.98	-2.32	0	0	0	0	0	0	0	0
4/12/2024 21:44	50501	MECH_T1	4	34	30	1.23	0.34	-0.89	0	0	0	0	0	0	0	0
4/12/2024 21:44	65702	RVIL_T2	0	2	2	0	0.15	0.15	-0.69	-0.68	0	0	0	0	0	0
4/12/2024 21:44	64701	LITI_T1	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
4/12/2024 21:44	15203	SFAR_T2	6	0	-6	0.12	0	-0.12	0	0	0	0	0	0	0	0
4/12/2024 21:44	41801	GOCI_T2	42	88	46	0.16	0.19	0.03	0	0	0	0	0	0	0	0
4/12/2024 21:44	50505	MECH_T1	0	61	61	0	0.13	0.13	0	0	0	0	0	0	0	0
4/12/2024 21:44	65207	PRIN_T4	14	74	60	0.16	0.17	0.01	0	0	0	0	0	0	0	0
4/12/2024 21:44	15204	SFAR_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
4/12/2024 21:44	40502	CRES_T2	7	18	11	0.21	0.26	0.05	0.47	0.47	0	0	0	0	0	0
4/12/2024 21:44	65602	QVIL_T2	2	6	4	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
4/12/2024 21:44	17401	FOHI_T1	0	0	0	0	0	0	-1.05	-1.06	0	0	0	0	0	0
4/12/2024 21:44	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:44	59301	MCAL_T1	75	84	9	0.42	0.71	0.29	-1.2	-1.24	0	0	0	0	0	0
4/12/2024 21:44	66502	SMAN_T2	0	0	0	0	0	0	-0.14	0.01	0	0	0	0	0	0
4/12/2024 21:44	49804	UNIV_T1	0	0	0	0	0	0	0.4	0.45	0	0	0	0	0	0
4/12/2024 21:44	59302	MCAL_T1	1	2	1	0.9	0.9	0	-0.52	-0.49	1	1	0	600	600	0
4/12/2024 21:44	50506	MECH_T1	1	281	280	0.2	0.13	-0.07	-0.19	-0.32	0	0	0	0	0	0
4/12/2024 21:44	60801	BUCK_T1	53	76	23	0.3	0.42	0.12	-0.26	-0.24	0	0	0	0	0	0
4/12/2024 21:44	67401	WAKE_T2	19	80	61	0.19	0.21	0.02	0	0	0	0	0	0	0	0
4/12/2024 21:44	50504	MECH_T1	51	294	243	0.15	0.21	0.06	0	0	0	0	0	0	0	0
4/12/2024 21:44	65206	PRIN_T4	13	97	84	0.1	0.17	0.07	0	0	0	0	0	0	0	0
4/12/2024 21:44	61304	EARL_T1	0	0	0	0	0	0	-1.08	-1.12	1	1	0	600	600	0
4/12/2024 21:44	67402	WAKE_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
4/12/2024 21:44	65205	PRIN_T1	1	1	0	2	2.2	0.2	0	0	0	0	0	0	0	0
4/12/2024 21:44	50503	MECH_T1	0	95	95	0	0.16	0.16	0	0	0	0	0	0	0	0
4/12/2024 21:45	67604	WARW_T1	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
4/12/2024 21:45	42903	MIDD_T2	58	36	-22	0.29	0.33	0.04	0	0	0	0	0	0	0	0
4/12/2024 21:45	53903	HALI_T2	2	2	0	0.8	0.75	-0.05	-0.21	-0.22	0	0	0	0	0	0
4/12/2024 21:45	57303	MOAL_T2	1	1	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
4/12/2024 21:45	63401	HONY_T1	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
4/12/2024 21:45	42901	MIDD_T2	386	352	-34	0.42	0.34	-0.08	0	0	0	0	0	0	0	0
4/12/2024 21:45	67502	WEWI_T2	25	187	162	0.16	0.24	0.08	-0.6	-0.61	0	0	0	0	0	0
4/12/2024 21:45	42902	MIDD_T2	190	188	-2	0.44	0.39	-0.05	-0.66	-0.69	0	0	0	0	0	0
4/12/2024 21:45	57103	SPHI_T2	0	0	0	0	0	0	-0.35	-0.32	1	1	0	600	600	0
4/12/2024 21:45	40601	PIGR_T1	214	224	10	0.35	0.46	0.11	-0.21	-0.19	0	0	0	0	0	0
4/12/2024 21:45	57301	MOAL_T2	2	4	2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/12/2024 21:45	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	1	1	0	600	600	0
4/12/2024 21:45	57104	SPHI_T2	0	2	2	0	0	0	-0.24	-0.26	0	0	0	0	0	0
4/12/2024 21:45	67605	WARW_T1	32	39	7	0.63	0.56	-0.07	-1.28	-1.29	0	0	0	0	0	0
4/12/2024 21:45	59003	MIFF_T1	1	1	0	0.6	0.7	0.1	0.26	0.26	0	0	0	0	0	0
4/12/2024 21:45	15104	UPHA_T2	0	22	22	0	0.12	0.12	0.34	0.34	0	0	0	0	0	0
4/12/2024 21:45	64701	LITI_T1	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
4/12/2024 21:45	57106	SPHI_T2	3	3	0	1.93	1.93	0	0	0	0	0	0	0	0	0
4/12/2024 21:45	53902	HALI_T2	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
4/12/2024 21:45	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:45	57101	SPHI_T2	6	6	0	1.6	1.55	-0.05	0	0	0	0	0	0	0	0
4/12/2024 21:45	63305	GREE_T1	2	13	11	0.1	0.24	0.14	-1.24	-1.22	0	0	0	0	0	0
4/12/2024 21:45	41502	FAIR_T2	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
4/12/2024 21:45	57304	MOAL_T2	44	66	22	0.34	0.53	0.19	0	0	0	0	0	0	0	0
4/12/2024 21:45	28403	HART_T2	0	0	0	0	0	0	-0.88	-0.91	1	1	0	900	900	0
4/12/2024 21:45	60602	NCOL_T2	1	0	-1	2.9	0	-2.9	0	0	0	0	0	0	0	0
4/12/2024 21:45	57306	MOAL_T2	0	0	0	0	0	0	-3.29	-3.32	1	1	0	1200	1200	0
4/12/2024 21:45	63404	HONY_T1	22	28	6	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
4/12/2024 21:45	46203	DANV_T2	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
4/12/2024 21:45	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:45	15001	BLMO_T1	4	4	0	0.63	0.78	0.15	0	0	0	0	0	0	0	0
4/12/2024 21:45	47401	PENS_T1	0	1	1	0	0	0	0.62	0.59	0	0	0	0	0	0
4/12/2024 21:45	15103	UPHA_T2	86	316	230	0.13	0.18	0.05	0	0	0	0	0	0	0	0
4/12/2024 21:45	59002	MIFF_T1	5	5	0	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
4/12/2024 21:46	65205	PRIN_T1	1	15	14	2.2	0.27	-1.93	0	0	0	0	0	0	0	0
4/12/2024 21:46	23202	HIRU_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
4/12/2024 21:46	65203	PRIN_T1	0	13	13	0	0.12	0.12	0	0	0	0	0	0	0	0
4/12/2024 21:46	59101	WALK_T2	30	68	38	0.27	0.41	0.14	-0.8	-0.83	0	0	0	0	0	0
4/12/2024 21:46	61101	BERK_T5	11	46	35	0.2	0.21	0.01	0	0	0	0	0	0	0	0
4/12/2024 21:46	62601	ENGL_T1	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
4/12/2024 21:46	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:46	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:46	24902	WHHA_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/12/2024 21:46	15203	SFAR_T2	0	0	0	0	0	0	-1.58	-1.61	0	0	0	0	0	0
4/12/2024 21:46	15001	BLMO_T1	4	4	0	0.63	0.78	0.15	0	0	0	0	0	0	0	0
4/12/2024 21:46	52006	LING_T2	3	3	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:46	65202	PRIN_T1	0	22	22	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:46	61303	EARL_T1	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
4/12/2024 21:46	66503	SMAN_T2	0	0	0	0	0	0	0.31	0.27	0	0	0	0	0	0
4/12/2024 21:46	62607	ENGL_T1	0	0	0	0	0	0	-1.2	-1.22	1	1	0	300	300	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/12/2024 21:46	45402	WBLO_T2	81	86	5	0.35	0.37	0.02	-0.93	-0.9	0	0	0	0	0	0
4/12/2024 21:46	52002	LING_T2	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:46	61103	BERK_T5	60	208	148	0.11	0.13	0.02	-0.01	0	0	0	0	0	0	0
4/12/2024 21:46	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:46	60602	NCOL_T2	1	0	-1	2.9	0	-2.9	0	0	0	0	0	0	0	0
4/12/2024 21:46	67703	WERN_T2	0	0	0	0	0	0	1.19	1.24	0	0	0	0	0	0
4/12/2024 21:46	59102	WALK_T2	76	83	7	0.65	0.71	0.06	0	0	0	0	0	0	0	0
4/12/2024 21:46	61102	BERK_T5	2	4	2	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
4/12/2024 21:46	16301	ALPA_T1	138	161	23	0.17	0.19	0.02	-0.57	-0.54	0	0	0	0	0	0
4/12/2024 21:46	62605	ENGL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:46	52004	LING_T2	1	1	0	0.3	0.4	0.1	0.11	0.11	0	0	0	0	0	0
4/12/2024 21:47	40504	CRES_T1	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
4/12/2024 21:47	45402	WBLO_T2	81	86	5	0.35	0.37	0.02	-0.93	-0.9	0	0	0	0	0	0
4/12/2024 21:47	67401	WAKE_T2	43	138	95	0.15	0.29	0.14	-0.96	-0.98	0	0	0	0	0	0
4/12/2024 21:47	57306	MOAL_T2	0	0	0	0	0	0	-3.29	-3.32	1	1	0	1200	1200	0
4/12/2024 21:47	61302	EARL_T1	0	0	0	0	0	0	1.16	1.11	0	0	0	0	0	0
4/12/2024 21:47	13803	SALI_T1	0	0	0	0	0	0	-0.26	-0.2	2	2	0	2400	2400	0
4/12/2024 21:47	67501	WEWI_T1	0	13	13	0	0.11	0.11	-0.71	-0.76	0	0	0	0	0	0
4/12/2024 21:47	45901	AUBU_T1	0	0	0	0	0	0	1.77	1.8	0	0	0	0	0	0
4/12/2024 21:47	57301	MOAL_T2	2	4	2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/12/2024 21:47	62605	ENGL_T1	0	3	3	0	0.1	0.1	-0.86	-0.87	0	0	0	0	0	0
4/12/2024 21:47	15001	BLMO_T1	4	4	0	0.63	0.78	0.15	0	0	0	0	0	0	0	0
4/12/2024 21:47	59102	WALK_T2	76	83	7	0.65	0.71	0.06	0	0	0	0	0	0	0	0
4/12/2024 21:47	57304	MOAL_T2	44	66	22	0.34	0.53	0.19	0	0	0	0	0	0	0	0
4/12/2024 21:47	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:47	60803	BUCK_T1	24	38	14	0.35	0.43	0.08	-0.57	-0.57	1	1	0	600	600	0
4/12/2024 21:47	60902	DONG_T2	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
4/12/2024 21:47	67502	WEWI_T2	25	187	162	0.16	0.24	0.08	-0.6	-0.61	0	0	0	0	0	0
4/12/2024 21:47	13807	SALI_T1	5	6	1	0.12	0.12	0	0	0	0	0	0	0	0	0
4/12/2024 21:47	57303	MOAL_T2	1	1	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
4/12/2024 21:47	60801	BUCK_T1	68	108	40	0.35	0.43	0.08	0	0	0	0	0	0	0	0
4/12/2024 21:47	12601	MACA_T1	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
4/12/2024 21:47	59101	WALK_T2	30	68	38	0.27	0.41	0.14	-0.8	-0.83	0	0	0	0	0	0
4/12/2024 21:47	46801	HEPB_T2	2	2	0	0.4	0.35	-0.05	0.53	0.5	0	0	0	0	0	0
4/12/2024 21:47	18001	ZION_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:48	50502	MECH_T1	1	4	3	3.4	0.98	-2.42	0	0	0	0	0	0	0	0
4/12/2024 21:48	15104	UPHA_T2	0	22	22	0	0.12	0.12	0	0	0	0	0	0	0	0
4/12/2024 21:48	15103	UPHA_T2	86	316	230	0.13	0.18	0.05	0.33	0.33	0	0	0	0	0	0
4/12/2024 21:48	53902	HALI_T2	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
4/12/2024 21:48	43802	SWIL_T1	0	0	0	0	0	0	-0.32	-0.36	1	1	0	600	600	0
4/12/2024 21:48	59201	THOM_T1	42	56	14	0.51	0.47	-0.04	0	0	0	0	0	0	0	0
4/12/2024 21:48	60803	BUCK_T1	24	38	14	0.35	0.43	0.08	0	0	0	0	0	0	0	0
4/12/2024 21:48	65503	MOJO_T2	0	18	18	0	0.26	0.26	0	0	0	0	0	0	0	0
4/12/2024 21:48	43505	WWIL_T1	1	1	0	2.2	2.1	-0.1	0	0	0	0	0	0	0	0
4/12/2024 21:48	67001	STHI_T2	876	908	32	0.47	0.51	0.04	0	0	0	0	0	0	0	0
4/12/2024 21:48	47102	MARL_T2	17	17	0	0.19	0.25	0.06	0	0	0	0	0	0	0	0
4/12/2024 21:48	53901	HALI_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
4/12/2024 21:48	65603	QVIL_T2	0	33	33	0	0.11	0.11	0.05	0.06	0	0	0	0	0	0
4/12/2024 21:48	50501	MECH_T1	4	34	30	1.53	0.34	-1.19	0	0	0	0	0	0	0	0
4/12/2024 21:48	50503	MECH_T1	16	95	79	0.11	0.16	0.05	0	0	0	0	0	0	0	0
4/12/2024 21:48	40201	BEAR_T2	3	7	4	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/12/2024 21:48	58402	MORO_T1	0	25	25	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:48	66505	SMAN_T2	0	0	0	0	0	0	-0.27	-0.3	1	1	0	900	900	0
4/12/2024 21:48	66502	SMAN_T2	0	0	0	0	0	0	-0.07	0	0	0	0	0	0	0
4/12/2024 21:48	65602	QVIL_T2	4	12	8	0.15	0.23	0.08	0	0	0	0	0	0	0	0
4/12/2024 21:48	50506	MECH_T1	12	281	269	0.13	0.13	0	-0.19	-0.32	0	0	0	0	0	0
4/12/2024 21:48	50505	MECH_T1	5	61	56	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/12/2024 21:48	59202	THOM_T1	476	574	98	0.64	0.63	-0.01	0	0	0	0	0	0	0	0
4/12/2024 21:48	43504	WWIL_T1	16	16	0	0.28	0.32	0.04	0.54	0.47	0	0	0	0	0	0
4/12/2024 21:48	65601	QVIL_T2	3	61	58	0.1	0.17	0.07	0	0	0	0	0	0	0	0
4/12/2024 21:48	14603	SWHI_T1	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
4/12/2024 21:48	50504	MECH_T1	161	286	125	0.16	0.22	0.06	0	0	0	0	0	0	0	0
4/12/2024 21:48	12606	MACA_T1	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
4/12/2024 21:48	45702	LIND_T2	1	1	0	0.3	0.3	0	-1.14	-1.18	0	0	0	0	0	0
4/12/2024 21:48	65604	QVIL_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/12/2024 21:48	67702	WERN_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
4/12/2024 21:48	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.59	0	0	0	0	0	0
4/12/2024 21:48	47103	MARL_T2	35	47	12	0.17	0.22	0.05	-0.71	-0.74	0	0	0	0	0	0
4/12/2024 21:48	43506	WWIL_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
4/12/2024 21:48	41305	FISH_T1	24	19	-5	0.14	0.15	0.01	0	0	0	0	0	0	0	0
4/12/2024 21:48	65502	MOJO_T2	0	0	0	0	0	0	-1.21	-1.24	0	0	0	0	0	0
4/12/2024 21:48	41301	FISH_T1	182	202	20	0.27	0.26	-0.01	-0.12	-0.1	0	0	0	0	0	0
4/12/2024 21:48	58401	MORO_T1	0	0	0	0	0	0	-1.31	-1.31	1	1	0	600	600	0
4/12/2024 21:48	22602	KIMB_T1	1	1	0	0.2	0.1	-0.1	0.31	0.3	0	0	0	0	0	0
4/12/2024 21:48	60801	BUCK_T1	68	108	40	0.35	0.43	0.08	-0.26	-0.24	0	0	0	0	0	0
4/12/2024 21:48	53903	HALI_T2	2	2	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
4/12/2024 21:48	43801	SWIL_T1	2	2	0	3.3	3.3	0	0	0	0	0	0	0	0	0
4/12/2024 21:48	67002	STHI_T2	783	871	88	0.3	0.33	0.03	0.53	0.47	0	0	0	0	0	0
4/12/2024 21:49	44201	POIN_T1	1	0	-1	0.1	0	-0.1	-1.51	-1.47	1	1	0	1200	1200	0
4/12/2024 21:49	57403	SPAN_T1	72	52	-20	0.3	0.28	-0.02	-0.12	-0.16	0	0	0	0	0	0
4/12/2024 21:49	57401	SPAN_T1	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0	0
4/12/2024 21:49	40504	CRES_T1	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
4/12/2024 21:49	57101	SPHI_T2	6	6	0	1.6	1.55	-0.05	0	0	0	0	0	0	0	0
4/12/2024 21:49	62606	ENGL_T1	0	0	0	0	0	0	-0.62	-0.81	1	1	0	900	900	0
4/12/2024 21:49	53902	HALI_T2	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
4/12/2024 21:49	63302	GREE_T1	0	0	0	0	0	0	0.26	0.18	0	0	0	0	0	0
4/12/2024 21:49	57103	SPHI_T2	0	0	0	0	0	0	-0.35	-0.32	1	1	0	600	600	0
4/12/2024 21:49	12601	MACA_T1	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
4/12/2024 21:49	57104	SPHI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:49	61103	BERK_T5	60	208	148	0.11	0.13	0.02	0	0	0	0	0	0	0	0
4/12/2024 21:49	61102	BERK_T5	2	4	2	0.35	0.25	-0.1	0.4	0.47	1	1	0	300	300	0
4/12/2024 21:49	57106	SPHI_T2	3	3	0	1.93	1.93	0	0	0	0	0	0	0	0	0
4/12/2024 21:49	47401	PENS_T1	0	1	1	0	0	0	0.62	0.59	0	0	0	0	0	0
4/12/2024 21:49	53903	HALI_T2	2	2	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
4/12/2024 21:49	61101	BERK_T5	11	46	35	0.2	0.21	0.01	0	0	0	0	0	0	0	0
4/12/2024 21:49	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:49	53901	HALI_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
4/12/2024 21:49	64305	LINC_T1	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
4/12/2024 21:49	63305	GREE_T1	2	13	11	0.1	0.24	0.14	0	0	0	0	0	0	0	0
4/12/2024 21:49	15203	SFAR_T2	0	0	0	0	0	0	-1.58	-1.61	0	0	0	0	0	0
4/12/2024 21:49	42002	MNVL_T2	1	1	0	3	2.9	-0.1	0.15	0.12	0	0	0	0	0	0
4/12/2024 21:49	62605	ENGL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:49	55002	NEWP_T1	6	6	0	1.57	1.58	0.01	-0.3	-0.29	0	0	0	0	0	0
4/12/2024 21:49	66504	SMAN_T2	0	0	0	0	0	0	-0.68	-0.71	0	0	0	0	0	0
4/12/2024 21:50	13501	MCMI_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
4/12/2024 21:50	59101	WALK_T2	30	68	38	0.27	0.41	0.14	0	0	0	0	0	0	0	0
4/12/2024 21:50	62602	ENGL_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/12/2024 21:50	58401	MORO_T1	0	0	0	0	0	0	-1.31	-1.31	1	1	0	600	600	0
4/12/2024 21:50	57106	SPHI_T2	3	3	0	1.93	1.93	0	0	0	0	0	0	0	0	0
4/12/2024 21:50	65603	QVIL_T2	0	33	33	0	0.11	0.11	0	0	0	0	0	0	0	0
4/12/2024 21:50	65601	QVIL_T2	3	61	58	0.1	0.17	0.07	0	0	0	0	0	0	0	0
4/12/2024 21:50	66902	SHIL_T2	9	23	14	0.1	0.1	0	0	0	0	0	0	0	0	0
4/12/2024 21:50	52002	LING_T2	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:50	65602	QVIL_T2	4	12	8	0.15	0.23	0.08	0	0	0	0	0	0	0	0
4/12/2024 21:50	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:50	58402	MORO_T1	0	25	25	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:50	57104	SPHI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:50	65604	QVIL_T2	0	2	2	0	0.3	0.3	0.22	0.23	0	0	0	0	0	0
4/12/2024 21:50	59102	WALK_T2	76	83	7	0.65	0.71	0.06	0.28	0.28	0	0	0	0	0	0
4/12/2024 21:50	62605	ENGL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:50	66901	SHIL_T2	1	1	0	0.7	1.6	0.9	-0.49	-0.49	0	0	0	0	0	0
4/12/2024 21:50	52004	LING_T2	1	1	0	0.3	0.4	0.1	0.11	0.11	0	0	0	0	0	0
4/12/2024 21:50	16605	PONO_T1	0	0	0	0	0	0	-0.69	-0.8	1	1	0	1200	1200	0
4/12/2024 21:50	52006	LING_T2	3	3	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:50	57101	SPHI_T2	6	6	0	1.6	1.55	-0.05	0.25	0.25	0	0	0	0	0	0
4/12/2024 21:51	59003	MIFF_T1	1	1	0	0.6	0.7	0.1	0.26	0.26	0	0	0	0	0	0
4/12/2024 21:51	59102	WALK_T2	76	83	7	0.65	0.71	0.06	0.28	0.28	0	0	0	0	0	0
4/12/2024 21:51	10801	CHHI_T1	0	0	0	0	0	0	-1.08	-1.06	1	1	0	900	900	0
4/12/2024 21:51	57403	SPAN_T1	72	52	-20	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
4/12/2024 21:51	59002	MIFF_T1	5	5	0	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
4/12/2024 21:51	59101	WALK_T2	30	68	38	0.27	0.41	0.14	-0.8	-0.83	0	0	0	0	0	0
4/12/2024 21:51	20403	ASHF_T2	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
4/12/2024 21:51	57401	SPAN_T1	2	2	0	0.65	0.65	0	-1.17	-1.24	1	1	0	600	600	0
4/12/2024 21:51	67605	WARW_T1	32	39	7	0.63	0.56	-0.07	-1.28	-1.29	0	0	0	0	0	0
4/12/2024 21:52	66703	STRA_T1	1	6	5	0.3	0.32	0.02	-0.39	-0.39	0	0	0	0	0	0
4/12/2024 21:52	15001	BLMO_T1	4	4	0	0.63	0.78	0.15	0	0	0	0	0	0	0	0
4/12/2024 21:52	59102	WALK_T2	76	83	7	0.65	0.71	0.06	0	0	0	0	0	0	0	0
4/12/2024 21:52	42802	SELI_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
4/12/2024 21:52	12602	MACA_T1	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
4/12/2024 21:52	58402	MORO_T1	0	25	25	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 21:52	59101	WALK_T2	30	68	38	0.27	0.41	0.14	-0.8	-0.83	0	0	0	0	0	0
4/12/2024 21:52	55002	NEWP_T1	6	6	0	1.57	1.58	0.01	-0.3	-0.29	0	0	0	0	0	0
4/12/2024 21:52	46801	HEPB_T2	2	2	0	0.4	0.35	-0.05	0.53	0.5	0	0	0	0	0	0
4/12/2024 21:52	46504	LOHA_T1	2	2	0	0.95	1.4	0.45	0	0	0	0	0	0	0	0
4/12/2024 21:52	46506	LOHA_T1	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
4/12/2024 21:52	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 21:52	44201	POIN_T1	1	0	-1	0.1	0	-0.1	-1.51	-1.47	1	1	0	1200	1200	0
4/12/2024 21:52	58401	MORO_T1	0	0	0	0	0	0	-2.61	-2.61	2	2	0	1200	1200	0
4/12/2024 21:53	55001	NEWP_T1	0	1	1	0	0.1	0.1	-0.43	-0.47	0	0	0	0	0	0
4/12/2024 21:53	53902	HALI_T2	1	1	0	5.3	5.1	-0.2	-0.31	-0.3	0	0	0	0	0	0
4/12/2024 21:53	53903	HALI_T2	2	2	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
4/12/2024 21:53	55002	NEWP_T1	6	6	0	1.57	1.58	0.01	0	0	0	0	0	0	0	0
4/12/2024 21:54	61304	EARL_T1	0	0	0	0	0	0	-1.12	-1.13	1	1	0	600	600	0
4/12/2024 21:54	15204	SFAR_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
4/12/2024 21:55	60803	BUCK_T1	24	38	14	0.35	0.43	0.08	0	0	0	0	0	0	0	0
4/12/2024 21:55	60801	BUCK_T1	68	108	40	0.35	0.43	0.08	-0.24	-0.25	0	0	0	0	0	0
4/12/2024 21:57	67401	WAKE_T2	43	138	95	0.15	0.29	0.14	0	0	0	0	0	0	0	0
4/12/2024 21:57	67402	WAKE_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
4/12/2024 21:58	14603	SWHI_T1	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
4/12/2024 21:58	11603	CEAL_T1	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
4/12/2024 21:58	11601	CEAL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2024 22:02	51304	WIND_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
4/12/2024 22:15	13807	SALI_T1	1	0	-1	0.1	0	-0.1	0.12	0.12	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/12/2024 22:23	65203	PRIN_T1	13	17	4	0.12	0.12	0	0	0	0	0	0	0	0	0
4/12/2024 22:23	65205	PRIN_T1	15	22	7	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
4/12/2024 22:23	65202	PRIN_T1	22	26	4	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/12/2024 22:29	41504	FAIR_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
4/12/2024 22:36	13801	SALI_T1	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
4/12/2024 22:41	12102	SALI_T2	0	0	0	0	0	0	0.07	0.11	0	0	0	0	0	0
4/12/2024 22:51	13805	SALI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 22:51	13807	SALI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 22:51	13801	SALI_T1	0	0	0	0	0	0	0.74	0.77	0	0	0	0	0	0
4/12/2024 22:56	13805	SALI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 22:56	13807	SALI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/12/2024 22:56	13801	SALI_T1	0	0	0	0	0	0	0.77	0.74	0	0	0	0	0	0
4/12/2024 23:23	61103	BERK_T5	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
4/12/2024 23:49	12102	SALI_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
4/13/2024 0:19	65603	QVIL_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
4/13/2024 0:19	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/13/2024 0:19	65601	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/13/2024 0:19	65602	QVIL_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/13/2024 1:53	67402	WAKE_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
4/13/2024 5:07	60803	BUCK_T1	0	0	0	0	0	0	-0.58	-0.58	1	1	0	600	600	0
4/13/2024 7:49	66202	SISP_T2	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
4/13/2024 7:51	66203	SISP_T2	0	0	0	0	0	0	-1.57	-1.53	1	1	0	1200	1200	0
4/13/2024 7:53	40502	CRES_T2	1	0	-1	0.1	0	-0.1	-0.04	-0.01	0	0	0	0	0	0
4/13/2024 7:53	67803	WLAN_T1	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
4/13/2024 7:53	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 7:53	67805	WLAN_T1	0	0	0	0	0	0	-1.66	-1.66	0	0	0	0	0	0
4/13/2024 7:57	46801	HEPB_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
4/13/2024 8:13	46801	HEPB_T2	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
4/13/2024 8:14	12006	HATF_T1	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
4/13/2024 8:14	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 8:17	65001	NEFF_T2	0	0	0	0	0	0	-1.19	-1.2	1	1	0	1200	1200	0
4/13/2024 8:18	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 8:28	62102	ELAN_T1	0	0	0	0	0	0	0.72	0.59	0	0	0	0	0	0
4/13/2024 8:33	44902	SCOT_T2	0	0	0	0	0	0	-1.03	-1.01	0	0	0	0	0	0
4/13/2024 8:39	45902	AUBU_T1	12	48	36	0.23	0.23	0	0	0	0	0	0	0	0	0
4/13/2024 8:39	45901	AUBU_T1	0	0	0	0	0	0	0.99	0.98	0	0	0	0	0	0
4/13/2024 8:55	46206	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/13/2024 8:55	46203	DANV_T2	0	0	0	0	0	0	-1.02	-1.02	0	0	0	0	0	0
4/13/2024 8:56	44505	HAMI_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
4/13/2024 8:56	44502	HAMI_T2	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
4/13/2024 8:57	46206	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/13/2024 8:57	46203	DANV_T2	0	0	0	0	0	0	-1.02	-1.02	0	0	0	0	0	0
4/13/2024 9:06	59101	WALK_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
4/13/2024 9:08	67605	WARW_T1	7	14	7	0.34	0.39	0.05	-1.2	-1.18	0	0	0	0	0	0
4/13/2024 9:09	45902	AUBU_T1	16	14	-2	0.19	0.17	-0.02	-1.05	-1.07	1	1	0	600	600	0
4/13/2024 9:12	53601	DALM_T2	1	1	0	0.6	0.4	-0.2	0.24	0.19	0	0	0	0	0	0
4/13/2024 9:12	23403	HONE_T1	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
4/13/2024 9:12	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
4/13/2024 9:12	23404	HONE_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/13/2024 9:13	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 9:13	67605	WARW_T1	7	14	7	0.34	0.39	0.05	-1.2	-1.18	0	0	0	0	0	0
4/13/2024 9:13	41802	GOCI_T2	1	0	-1	9.7	0	-9.7	0	0	0	0	0	0	0	0
4/13/2024 9:14	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
4/13/2024 9:20	67204	TEHI_T2	0	1	1	0	0.1	0.1	0.08	0.08	0	0	0	0	0	0
4/13/2024 9:23	67605	WARW_T1	6	14	8	0.32	0.47	0.15	-1.18	-1.17	0	0	0	0	0	0
4/13/2024 9:27	24901	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 9:27	24902	WHHA_T1	37	62	25	0.55	0.54	-0.01	0	0	0	0	0	0	0	0
4/13/2024 9:28	67605	WARW_T1	6	14	8	0.32	0.47	0.15	-1.18	-1.17	0	0	0	0	0	0
4/13/2024 9:29	63401	HONY_T1	0	0	0	0	0	0	0.48	0.61	0	0	0	0	0	0
4/13/2024 9:38	67605	WARW_T1	14	17	3	0.39	0.62	0.23	-1.17	-1.17	0	0	0	0	0	0
4/13/2024 9:38	67605	WARW_T1	14	17	3	0.39	0.62	0.23	-1.17	-1.17	0	0	0	0	0	0
4/13/2024 9:38	67605	WARW_T1	14	17	3	0.39	0.62	0.23	-1.17	-1.17	0	0	0	0	0	0
4/13/2024 9:38	67605	WARW_T1	14	17	3	0.39	0.62	0.23	-1.17	-1.17	0	0	0	0	0	0
4/13/2024 9:43	67605	WARW_T1	14	17	3	0.39	0.62	0.23	-1.17	-1.17	0	0	0	0	0	0
4/13/2024 9:46	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.17	1	1	0	600	600	0
4/13/2024 9:46	64403	LAND_T1	0	0	0	0	0	0	-2.03	-1.99	1	1	0	900	900	0
4/13/2024 9:53	67605	WARW_T1	14	22	8	0.47	0.58	0.11	-1.17	-1.17	0	0	0	0	0	0
4/13/2024 9:53	67605	WARW_T1	14	22	8	0.47	0.58	0.11	-1.17	-1.17	0	0	0	0	0	0
4/13/2024 9:53	67605	WARW_T1	14	22	8	0.47	0.58	0.11	-1.17	-1.17	0	0	0	0	0	0
4/13/2024 9:53	67605	WARW_T1	14	22	8	0.47	0.58	0.11	-1.17	-1.17	0	0	0	0	0	0
4/13/2024 9:58	67605	WARW_T1	14	22	8	0.47	0.58	0.11	-1.17	-1.17	0	0	0	0	0	0
4/13/2024 9:59	56802	BENV_T2	1	1	0	0.6	1.2	0.6	-1.49	-1.49	0	0	0	0	0	0
4/13/2024 10:00	42901	MIDD_T2	156	142	-14	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
4/13/2024 10:00	62606	ENGL_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
4/13/2024 10:00	24105	EHAZ_T1	4	5	1	6.18	6.25	0.07	-2.03	-2.01	1	1	0	1200	1200	0
4/13/2024 10:00	65001	NEFF_T2	0	6	6	0	0.18	0.18	-0.99	-1.23	1	1	0	1200	1200	0
4/13/2024 10:00	24102	EHAZ_T1	1	3	2	1.6	0	-1.6	0	0	0	0	0	0	0	0
4/13/2024 10:00	45602	WOOL_T1	0	0	0	0	0	0	0.42	0.37	0	0	0	0	0	0
4/13/2024 10:00	54001	SOLE_T1	1	4	3	0.5	0.33	-0.17	0	0	1	1	0	600	600	0
4/13/2024 10:00	42903	MIDD_T2	17	7	-10	0.4	0.76	0.36	-0.22	-0.26	0	0	0	0	0	0
4/13/2024 10:00	60501	NMAN_T2	3	3	0	4.2	4.8	0.6	0	0	0	0	0	0	0	0
4/13/2024 10:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 10:00	42902	MIDD_T2	72	84	12	0.24	0.29	0.05	0	0	0	0	0	0	0	0
4/13/2024 10:00	57104	SPHI_T2	1	2	1	0.8	0.5	-0.3	-1.17	-1.17	1	1	0	900	900	0
4/13/2024 10:00	63805	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
4/13/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-1.95	-2.03	0	0	0	0	0	0
4/13/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.42	-0.52	1	1	0	600	600	0
4/13/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	0.88	0.89	0	0	0	0	0	0
4/13/2024 10:00	63306	GREE_T1	0	0	0	0	0	0	-2.13	-2.15	1	1	0	900	900	0
4/13/2024 10:00	40901	JESH_T1	1	0	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
4/13/2024 10:00	50502	MECH_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/13/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
4/13/2024 10:00	10805	CHHI_T2	7	10	3	3.11	2.51	-0.6	-1.05	-1.09	0	0	0	0	0	0
4/13/2024 10:00	46206	DANV_T2	0	0	0	0	0	0	1.9	1.99	1	1	0	1200	1200	0
4/13/2024 10:00	22102	EDEL_T1	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
4/13/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-1.62	-1.63	0	0	0	0	0	0
4/13/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
4/13/2024 10:00	57106	SPHI_T2	3	3	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/13/2024 10:00	67605	WARW_T1	17	22	5	0.62	0.58	-0.04	0	0	0	0	0	0	0	0
4/13/2024 10:00	66302	MCGO_T2	0	3	3	0	0.37	0.37	-1.27	-1.28	1	1	0	600	600	0
4/13/2024 10:00	50505	MECH_T1	0	0	0	0	0	0	-1.03	-0.99	0	0	0	0	0	0
4/13/2024 10:00	44502	HAMI_T2	1	1	0	2.6	2.4	-0.2	0	0	0	0	0	0	0	0
4/13/2024 10:00	51002	NHAR_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/13/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.82	0.8	0	0	0	0	0	0
4/13/2024 10:00	66303	MCGO_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/13/2024 10:00	51004	NHAR_T1	4	5	1	1.65	1.4	-0.25	0	0	0	0	0	0	0	0
4/13/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-1.64	-1.63	1	1	0	600	600	0
4/13/2024 10:00	56601	HAMP_T1	0	0	0	0	0	0	-2	-1.99	0	0	0	0	0	0
4/13/2024 10:00	10801	CHHI_T1	1	1	0	0.1	0	-0.1	-3.07	-3.06	4	4	0	3000	3000	0
4/13/2024 10:00	64801	MONE_T2	0	1	1	0	0.3	0.3	0.19	0.25	0	0	0	0	0	0
4/13/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
4/13/2024 10:00	44505	HAMI_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
4/13/2024 10:00	53501	EVIL_T2	0	2	2	0	0.15	0.15	-0.73	-0.74	0	0	0	0	0	0
4/13/2024 10:00	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
4/13/2024 10:00	46203	DANV_T2	1	8	7	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/13/2024 10:00	50501	MECH_T1	4	4	0	0.73	0.8	0.07	0	0	0	0	0	0	0	0
4/13/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	-0.96	-0.96	2	2	0	1200	1200	0
4/13/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
4/13/2024 10:00	63804	HEMP_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
4/13/2024 10:00	14603	SWHI_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
4/13/2024 10:00	60101	COCA_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
4/13/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	0.7	0.73	0	0	0	0	0	0
4/13/2024 10:00	63801	HEMP_T1	0	3	3	0	0.17	0.17	-0.23	-0.24	0	0	0	0	0	0
4/13/2024 10:00	65702	RVIL_T2	0	0	0	0	0	0	-1.09	-1.1	1	1	0	600	600	0
4/13/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
4/13/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.79	-0.84	1	1	0	1200	1200	0
4/13/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	-0.57	-0.5	2	2	0	1800	1800	0
4/13/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
4/13/2024 10:00	56802	BENV_T2	1	1	0	1.2	1	-0.2	-1.49	-1.49	0	0	0	0	0	0
4/13/2024 10:00	16101	BING_T2	1	1	0	0.1	0	-0.1	0.39	0.4	0	0	0	0	0	0
4/13/2024 10:00	45702	LIND_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
4/13/2024 10:00	15103	UPHA_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
4/13/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	-0.48	-0.4	0	0	0	0	0	0
4/13/2024 10:02	56802	BENV_T2	1	1	0	1.2	1	-0.2	-1.49	-1.49	0	0	0	0	0	0
4/13/2024 10:03	56803	BENV_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/13/2024 10:03	56802	BENV_T2	1	1	0	1.2	1	-0.2	-2.97	-2.98	0	0	0	0	0	0
4/13/2024 10:03	56801	BENV_T1	0	1	1	0	0.5	0.5	-0.8	-0.83	1	1	0	600	600	0
4/13/2024 10:04	56802	BENV_T2	1	1	0	1.2	1	-0.2	-1.49	-1.49	0	0	0	0	0	0
4/13/2024 10:06	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/13/2024 10:06	58402	MORO_T1	0	0	0	0	0	0	-0.5	-0.5	2	2	0	1500	1500	0
4/13/2024 10:07	58803	COCO_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/13/2024 10:07	45902	AUBU_T1	13	13	0	0.18	0.21	0.03	-1.01	-1	1	1	0	600	600	0
4/13/2024 10:07	60701	BREC_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
4/13/2024 10:07	48302	ORWI_T2	2	2	0	0.9	0.75	-0.15	-0.02	-0.01	0	0	0	0	0	0
4/13/2024 10:07	16102	BING_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
4/13/2024 10:07	64101	REFR_T1	0	1	1	0	0.1	0.1	-0.74	-0.77	0	0	0	0	0	0
4/13/2024 10:07	16101	BING_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/13/2024 10:07	40201	BEGA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/13/2024 10:07	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 10:07	40101	HUNT_T2	0	0	0	0	0	0	-0.65	-0.68	0	0	0	0	0	0
4/13/2024 10:07	64305	LINC_T1	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
4/13/2024 10:07	51401	LYKE_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
4/13/2024 10:08	52001	LING_T1	0	0	0	0	0	0	-1.07	-1.08	0	0	0	0	0	0
4/13/2024 10:08	20401	ASHF_T2	0	0	0	0	0	0	-1.33	-1.31	0	0	0	0	0	0
4/13/2024 10:08	46004	BERW_T2	0	1	1	0	0	0	-0.72	-0.7	0	0	0	0	0	0
4/13/2024 10:08	42302	MOWR_T2	0	0	0	0	0	0	0.34	0.37	0	0	0	0	0	0
4/13/2024 10:08	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/13/2024 10:08	12505	MITR_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
4/13/2024 10:08	58102	NEKI_T1	1	1	0	0.8	0.8	0	-1.38	-1.43	1	1	0	1200	1200	0
4/13/2024 10:08	12807	MICK_T1	0	0	0	0	0	0	-0.78	-0.76	0	0	0	0	0	0
4/13/2024 10:08	45602	WOOL_T1	0	0	0	0	0	0	0.42	0.37	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/13/2024 10:08	12502	MITR_T2	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
4/13/2024 10:08	25603	ARRO_T1	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
4/13/2024 10:09	59101	WALK_T2	0	0	0	0	0	0	-1.47	-1.33	0	0	0	0	0	0
4/13/2024 10:10	53601	DALM_T2	1	1	0	0.4	0.5	0.1	0.21	0.25	0	0	0	0	0	0
4/13/2024 10:12	62102	ELAN_T1	0	0	0	0	0	0	0.55	0.78	0	0	0	0	0	0
4/13/2024 10:14	64402	LAND_T2	0	0	0	0	0	0	-0.61	-0.6	1	1	0	600	600	0
4/13/2024 10:14	46801	HEPB_T2	0	0	0	0	0	0	0.54	0.61	0	0	0	0	0	0
4/13/2024 10:15	63801	HEMP_T1	1	5	4	0.2	0.32	0.12	-0.24	0.06	0	0	0	0	0	0
4/13/2024 10:15	63803	HEMP_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/13/2024 10:15	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
4/13/2024 10:17	65702	RVIL_T2	0	3	3	0	0.17	0.17	-1.1	-1.09	1	1	0	600	600	0
4/13/2024 10:19	57401	SPAN_T1	0	2	2	0	0.35	0.35	-1.23	-1.23	1	1	0	600	600	0
4/13/2024 10:19	65702	RVIL_T2	0	3	3	0	0.17	0.17	-1.1	-1.09	1	1	0	600	600	0
4/13/2024 10:20	56802	BENV_T2	1	1	0	1	0.4	-0.6	-1.49	-1.48	0	0	0	0	0	0
4/13/2024 10:21	65702	RVIL_T2	0	3	3	0	0.17	0.17	-1.1	-1.09	1	1	0	600	600	0
4/13/2024 10:21	57401	SPAN_T1	0	2	2	0	0.35	0.35	-2.46	-2.45	2	2	0	1200	1200	0
4/13/2024 10:21	26001	WDAM_T1	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
4/13/2024 10:22	57401	SPAN_T1	0	2	2	0	0.35	0.35	-2.46	-2.45	2	2	0	1200	1200	0
4/13/2024 10:22	66502	SMAN_T2	0	0	0	0	0	0	-0.12	-0.05	0	0	0	0	0	0
4/13/2024 10:23	67605	WARW_T1	21	20	-1	0.6	0.65	0.05	-1.15	-1.15	0	0	0	0	0	0
4/13/2024 10:23	66502	SMAN_T2	0	0	0	0	0	0	-0.05	0.07	0	0	0	0	0	0
4/13/2024 10:23	67603	WARW_T1	0	0	0	0	0	0	-0.05	-0.02	0	0	0	0	0	0
4/13/2024 10:24	14201	EALL_T1	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
4/13/2024 10:25	67801	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 10:25	67803	WLAN_T1	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
4/13/2024 10:25	67804	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 10:26	67605	WARW_T1	21	20	-1	0.6	0.65	0.05	-1.15	-1.15	0	0	0	0	0	0
4/13/2024 10:28	63602	LETO_T1	1	1	0	0.5	0.3	-0.2	-0.44	-0.4	0	0	0	0	0	0
4/13/2024 10:28	52004	LING_T2	0	0	0	0	0	0	0.04	0.09	0	0	0	0	0	0
4/13/2024 10:28	63601	LETO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/13/2024 10:28	64403	LAND_T1	0	0	0	0	0	0	-1.98	-2.05	1	1	0	900	900	0
4/13/2024 10:34	45701	LIND_T2	0	0	0	0	0	0	-1.11	-1.11	0	0	0	0	0	0
4/13/2024 10:43	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 10:45	46801	HEPB_T2	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
4/13/2024 10:46	64701	LITI_T1	0	0	0	0	0	0	0.02	0.06	0	0	0	0	0	0
4/13/2024 10:50	65901	SAKR_T2	1	1	0	8.8	9	0.2	-1.39	-1.32	1	1	0	900	900	0
4/13/2024 10:51	67502	WEWI_T2	1	1	0	0.4	0.2	-0.2	-1.54	-1.54	1	1	0	900	900	0
4/13/2024 10:51	45901	AUBU_T1	0	0	0	0	0	0	0.95	0.97	0	0	0	0	0	0
4/13/2024 10:51	59202	THOM_T1	0	4	4	0	0.27	0.27	0	0	0	0	0	0	0	0
4/13/2024 10:51	67605	WARW_T1	20	22	2	0.65	0.67	0.02	-1.15	-1.18	0	0	0	0	0	0
4/13/2024 10:51	45602	WOOL_T1	0	0	0	0	0	0	0.44	0.48	0	0	0	0	0	0
4/13/2024 10:51	59201	THOM_T1	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
4/13/2024 10:51	45902	AUBU_T1	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
4/13/2024 10:52	67502	WEWI_T2	1	1	0	0.4	0.2	-0.2	-1.54	-1.54	1	1	0	900	900	0
4/13/2024 10:53	45602	WOOL_T1	0	0	0	0	0	0	0.44	0.48	0	0	0	0	0	0
4/13/2024 10:54	45902	AUBU_T1	2	1	-1	0.35	0.4	0.05	-1.05	-1.01	1	1	0	600	600	0
4/13/2024 10:56	45902	AUBU_T1	2	1	-1	0.35	0.4	0.05	-2.1	-2.02	2	2	0	1200	1200	0
4/13/2024 10:57	51102	CARL_T1	3	2	-1	0.23	0.7	0.47	0	0	0	0	0	0	0	0
4/13/2024 10:57	51104	CARL_T1	1	0	-1	8.4	0	-8.4	0	0	0	0	0	0	0	0
4/13/2024 10:57	51107	CARL_T1	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
4/13/2024 11:01	55002	NEWP_T1	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
4/13/2024 11:01	46801	HEPB_T2	0	0	0	0	0	0	0.58	0.62	0	0	0	0	0	0
4/13/2024 11:01	65503	MOJO_T2	2	6	4	0.1	0.45	0.35	-0.57	-0.6	0	0	0	0	0	0
4/13/2024 11:03	55002	NEWP_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
4/13/2024 11:05	66703	STRA_T1	0	0	0	0	0	0	-0.26	-0.21	0	0	0	0	0	0
4/13/2024 11:05	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 11:06	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 11:06	65604	QVIL_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
4/13/2024 11:07	54601	SUMM_T2	0	0	0	0	0	0	-1.94	-1.94	2	2	0	2100	2100	0
4/13/2024 11:08	67605	WARW_T1	20	23	3	0.62	0.73	0.11	-1.19	-1.19	0	0	0	0	0	0
4/13/2024 11:08	45902	AUBU_T1	1	8	7	0.4	0.14	-0.26	-2.02	-2.06	2	2	0	1200	1200	0
4/13/2024 11:09	45902	AUBU_T1	1	8	7	0.4	0.14	-0.26	-1.01	-1.03	1	1	0	600	600	0
4/13/2024 11:10	45902	AUBU_T1	1	8	7	0.4	0.14	-0.26	-2.02	-2.06	2	2	0	1200	1200	0
4/13/2024 11:12	24902	WHHA_T1	62	81	19	0.76	1.02	0.26	0	0	0	0	0	0	0	0
4/13/2024 11:12	45902	AUBU_T1	1	8	7	0.4	0.14	-0.26	0	0	0	0	0	0	0	0
4/13/2024 11:12	45901	AUBU_T1	0	0	0	0	0	0	0.96	0.97	0	0	0	0	0	0
4/13/2024 11:13	67605	WARW_T1	20	23	3	0.62	0.73	0.11	-1.19	-1.19	0	0	0	0	0	0
4/13/2024 11:15	45902	AUBU_T1	1	78	77	0.3	0.21	-0.09	-1.01	-1.03	1	1	0	600	600	0
4/13/2024 11:15	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 11:16	56802	BENV_T2	1	1	0	0.8	0.5	-0.3	-1.45	-1.48	0	0	0	0	0	0
4/13/2024 11:17	56802	BENV_T2	1	1	0	0.8	0.5	-0.3	-1.45	-1.48	0	0	0	0	0	0
4/13/2024 11:18	56802	BENV_T2	1	1	0	0.8	0.5	-0.3	-1.45	-1.48	0	0	0	0	0	0
4/13/2024 11:20	65703	RVIL_T1	0	0	0	0	0	0	-0.4	-0.35	0	0	0	0	0	0
4/13/2024 11:20	56802	BENV_T2	1	1	0	0.8	0.5	-0.3	-1.45	-1.48	0	0	0	0	0	0
4/13/2024 11:20	65701	RVIL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/13/2024 11:21	44201	POIN_T1	0	0	0	0	0	0	-3.03	-3.03	2	2	0	2400	2400	0
4/13/2024 11:21	65603	QVIL_T2	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
4/13/2024 11:22	67605	WARW_T1	22	28	6	0.67	0.68	0.01	-1.19	-1.19	0	0	0	0	0	0
4/13/2024 11:22	45901	AUBU_T1	0	1	1	0	0.1	0.1	0.96	0.97	0	0	0	0	0	0
4/13/2024 11:22	45902	AUBU_T1	1	78	77	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
4/13/2024 11:23	67605	WARW_T1	22	28	6	0.67	0.68	0.01	-1.19	-1.16	0	0	0	0	0	0
4/13/2024 11:23	54602	SUMM_T2	0	0	0	0	0	0	-2.46	-2.47	1	1	0	600	600	0
4/13/2024 11:25	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 11:25	60901	DONG_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
4/13/2024 11:25	60902	DONG_T2	0	1	1	0	0.1	0.1	0.56	0.55	0	0	0	0	0	0
4/13/2024 11:25	51102	CARL_T1	2	3	1	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
4/13/2024 11:25	45902	AUBU_T1	1	78	77	0.3	0.21	-0.09	-1.03	-1.04	1	1	0	600	600	0
4/13/2024 11:25	60904	DONG_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/13/2024 11:25	51101	CARL_T1	0	0	0	0	0	0	-1.39	-1.33	1	1	0	600	600	0
4/13/2024 11:25	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 11:27	10801	OHH_T1	0	2	2	0	0.15	0.15	-1.51	-1.49	2	2	0	1500	1500	0
4/13/2024 11:27	61702	ELIZ_T2	3	7	4	0.57	0.81	0.24	-2.24	-2.23	2	2	0	1500	1500	0
4/13/2024 11:27	61704	ELIZ_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
4/13/2024 11:27	61706	ELIZ_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/13/2024 11:28	67605	WARW_T1	22	28	6	0.67	0.68	0.01	-1.19	-1.16	0	0	0	0	0	0
4/13/2024 11:30	52004	LING_T2	0	2	2	0	0.65	0.65	0.08	0.08	0	0	0	0	0	0
4/13/2024 11:30	52003	LING_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 11:30	52001	LING_T1	0	0	0	0	0	0	-1.06	-1.09	0	0	0	0	0	0
4/13/2024 11:31	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 11:31	45902	AUBU_T1	7	103	96	0.11	0.19	0.08	-1.03	-1.04	1	1	0	600	600	0
4/13/2024 11:34	65205	PRIN_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
4/13/2024 11:34	13901	SEID_T1	0	0	0	0	0	0	-0.8	-0.83	1	1	0	1200	1200	0
4/13/2024 11:35	65205	PRIN_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
4/13/2024 11:35	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 11:38	67605	WARW_T1	22	29	7	0.75	0.62	-0.13	-1.16	-1.15	0	0	0	0	0	0
4/13/2024 11:38	67603	WARW_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/13/2024 11:42	45902	AUBU_T1	7	103	96	0.11	0.19	0.08	-1.04	-1.08	1	1	0	600	600	0
4/13/2024 11:42	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 11:43	67605	WARW_T1	22	29	7	0.75	0.62	-0.13	-1.16	-1.15	0	0	0	0	0	0
4/13/2024 11:43	67603	WARW_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/13/2024 11:46	63302	GREE_T1	0	0	0	0	0	0	0.28	0.22	0	0	0	0	0	0
4/13/2024 11:46	45901	AUBU_T1	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
4/13/2024 11:46	45902	AUBU_T1	78	238	160	0.21	0.3	0.09	-1.04	-1.08	1	1	0	600	600	0
4/13/2024 11:48	65501	MOJO_T1	0	0	0	0	0	0	-0.6	-0.6	1	1	0	900	900	0
4/13/2024 11:48	57304	MOAL_T2	0	1	1	0	0	0	-0.63	-0.55	0	0	0	0	0	0
4/13/2024 11:48	57303	MOAL_T2	1	1	0	7.3	7.2	-0.1	0	0	0	0	0	0	0	0
4/13/2024 11:49	13302	ORVI_T2	0	0	0	0	0	0	1.39	1.34	0	0	0	0	0	0
4/13/2024 11:49	12505	MITR_T2	0	0	0	0	0	0	0.32	0.21	0	0	0	0	0	0
4/13/2024 11:49	12502	MITR_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
4/13/2024 11:52	66203	SISP_T2	0	0	0	0	0	0	-1.45	-1.44	1	1	0	1200	1200	0
4/13/2024 11:53	67603	WARW_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/13/2024 11:53	67605	WARW_T1	27	26	-1	0.62	0.67	0.05	-1.15	-1.13	0	0	0	0	0	0
4/13/2024 11:54	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
4/13/2024 11:54	61302	EARL_T1	0	1	1	0	0.9	0.9	-0.36	-0.4	2	2	0	1800	1800	0
4/13/2024 11:54	60803	BUCK_T1	0	0	0	0	0	0	-0.54	-0.55	1	1	0	600	600	0
4/13/2024 11:54	62105	ELAN_T1	0	2	2	0	0.2	0.2	0.39	0.37	0	0	0	0	0	0
4/13/2024 11:54	61304	EARL_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/13/2024 11:54	62103	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 11:57	67604	WARW_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
4/13/2024 11:57	67605	WARW_T1	27	26	-1	0.62	0.67	0.05	0	0	0	0	0	0	0	0
4/13/2024 11:57	40101	HUNT_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
4/13/2024 11:57	67603	WARW_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/13/2024 11:57	60803	BUCK_T1	0	0	0	0	0	0	-0.54	-0.55	1	1	0	600	600	0
4/13/2024 11:58	61801	EELI_T2	0	2	2	0	0.3	0.3	-1.86	-1.82	2	2	0	1200	1200	0
4/13/2024 11:59	25503	MADI_T1	0	0	0	0	0	0	-0.96	-0.93	0	0	0	0	0	0
4/13/2024 11:59	42201	SHEN_T2	0	0	0	0	0	0	-0.01	-0.02	1	1	0	600	600	0
4/13/2024 11:59	61302	EARL_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
4/13/2024 11:59	64204	KINZ_T1	1	2	1	1	0.8	-0.2	0	0	0	0	0	0	0	0
4/13/2024 11:59	64203	KINZ_T1	0	1	1	0	0.4	0.4	-0.49	0.14	1	0	-1	600	0	-600
4/13/2024 11:59	64201	KINZ_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/13/2024 11:59	64202	KINZ_T1	3	3	0	0.37	0.67	0.3	0	0	0	0	0	0	0	0
4/13/2024 11:59	61304	EARL_T1	0	2	2	0	0.15	0.15	-0.93	-0.92	1	1	0	600	600	0
4/13/2024 12:01	64704	LITI_T1	0	0	0	0	0	0	1.06	0.99	0	0	0	0	0	0
4/13/2024 12:02	26401	INOR_T1	1	2	1	8	8.1	0.1	0.42	0.43	0	0	0	0	0	0
4/13/2024 12:03	67605	WARW_T1	21	32	11	0.55	0.62	0.07	-1.15	-1.13	0	0	0	0	0	0
4/13/2024 12:03	67603	WARW_T1	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
4/13/2024 12:04	54601	SUMM_T2	0	0	0	0	0	0	-1.92	-1.91	2	2	0	2100	2100	0
4/13/2024 12:04	58401	MORO_T1	0	1	1	0	0.4	0.4	-1.21	-1.22	1	1	0	600	600	0
4/13/2024 12:04	66203	SISP_T2	0	0	0	0	0	0	-1.44	-1.45	1	1	0	1200	1200	0
4/13/2024 12:05	57401	SPAN_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/13/2024 12:05	57403	SPAN_T1	1	1	0	0.2	0.5	0.3	-0.07	-0.05	0	0	0	0	0	0
4/13/2024 12:07	45902	AUBU_T1	89	241	152	0.18	0.3	0.12	-1.08	-1.12	1	1	0	600	600	0
4/13/2024 12:07	45901	AUBU_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/13/2024 12:08	67605	WARW_T1	21	32	11	0.55	0.62	0.07	-1.13	-1.16	0	0	0	0	0	0
4/13/2024 12:08	67603	WARW_T1	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
4/13/2024 12:09	57401	SPAN_T1	0	2	2	0	0.35	0.35	-1.26	-1.26	1	1	0	600	600	0
4/13/2024 12:09	57403	SPAN_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/13/2024 12:10	66701	STRA_T1	0	0	0	0	0	0	-0.72	-0.68	2	2	0	1200	1200	0
4/13/2024 12:11	51108	CARL_T1	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
4/13/2024 12:11	51102	CARL_T1	1	4	3	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/13/2024 12:13	45902	AUBU_T1	89	241	152	0.18	0.3	0.12	-1.12	-1.15	1	1	0	600	600	0
4/13/2024 12:13	45901	AUBU_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/13/2024 12:14	12807	MICK_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/13/2024 12:14	12801	MICK_T1	0	0	0	0	0	0	-0.29	-0.31	1	1	0	600	600	0
4/13/2024 12:15	22602	KIMB_T1	1	1	0	0.2	0.4	0.2	0.32	0.32	0	0	0	0	0	0
4/13/2024 12:17	24201	PROV_T3	1	1	0	6.8	7.1	0.3	-1.47	-1.45	1	1	0	1200	1200	0
4/13/2024 12:17	24204	PROV_T3	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
4/13/2024 12:18	67204	TEHI_T2	11	99	88	0.24	0.2	-0.04	0.04	0.03	0	0	0	0	0	0
4/13/2024 12:18	65702	RVIL_T2	0	0	0	0	0	0	-1.05	-1.09	1	1	0	600	600	0
4/13/2024 12:19	67204	TEHI_T2	11	99	88	0.24	0.2	-0.04	0.04	0.03	0	0	0	0	0	0
4/13/2024 12:19	54601	SUMM_T2	0	0	0	0	0	0	-1.91	-1.92	2	2	0	2100	2100	0
4/13/2024 12:20	66503	SMAN_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
4/13/2024 12:21	66703	STRA_T1	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
4/13/2024 12:24	66703	STRA_T1	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
4/13/2024 12:26	60101	COCA_T1	0	2	2	0	0.65	0.65	0.46	0.47	0	0	0	0	0	0
4/13/2024 12:27	40504	CRES_T1	0	0	0	0	0	0	-1.21	-1.27	0	0	0	0	0	0
4/13/2024 12:30	56601	HAMP_T1	1	0	-1	0.2	0	-0.2	-1.83	-1.73	0	0	0	0	0	0
4/13/2024 12:31	26703	HEML_T1	0	0	0	0	0	0	-0.86	-0.85	1	1	0	600	600	0
4/13/2024 12:33	58402	MORO_T1	0	0	0	0	0	0	-0.68	-0.66	2	2	0	1500	1500	0
4/13/2024 12:35	67402	WAKE_T2	0	0	0	0	0	0	-0.45	-0.46	1	1	0	600	600	0
4/13/2024 12:35	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 12:36	54602	SUMM_T2	0	0	0	0	0	0	-2.45	-2.47	1	1	0	600	600	0
4/13/2024 12:37	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 12:37	67402	WAKE_T2	0	0	0	0	0	0	-0.45	-0.46	1	1	0	600	600	0
4/13/2024 12:37	67805	WLAN_T1	0	0	0	0	0	0	-1.59	-1.63	0	0	0	0	0	0
4/13/2024 12:41	53301	GRAT_T1	0	0	0	0	0	0	0	0	4	4	0	1800	1800	0
4/13/2024 12:41	16301	ALPA_T1	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
4/13/2024 12:43	67605	WARW_T1	32	27	-5	0.58	0.7	0.12	-1.2	-1.19	0	0	0	0	0	0
4/13/2024 12:43	67603	WARW_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/13/2024 12:45	53301	GRAT_T1	0	0	0	0	0	0	0	0	4	4	0	1800	1800	0
4/13/2024 12:45	12001	HATF_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
4/13/2024 12:45	12001	HATF_T1	0	1	1	0	2	2	0	0	0	0	0	0	0	0
4/13/2024 12:45	63401	HONY_T1	0	0	0	0	0	0	0.73	0.6	0	0	0	0	0	0
4/13/2024 12:45	63404	HONY_T1	1	3	2	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
4/13/2024 12:45	51201	MTON_T1	0	2	2	0	0.15	0.15	-0.08	-0.06	0	0	0	0	0	0
4/13/2024 12:46	25503	MADI_T1	0	0	0	0	0	0	-0.93	-0.9	0	0	0	0	0	0
4/13/2024 12:48	67605	WARW_T1	24	31	7	0.65	0.69	0.04	-1.2	-1.19	0	0	0	0	0	0
4/13/2024 12:48	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 12:49	51201	MTON_T1	0	2	2	0	0.15	0.15	-0.08	-0.06	0	0	0	0	0	0
4/13/2024 12:49	42802	SELI_T1	0	0	0	0	0	0	0.08	0.16	0	0	0	0	0	0
4/13/2024 12:50	60501	NMAN_T2	3	3	0	3.6	4.3	0.7	0	0	0	0	0	0	0	0
4/13/2024 12:50	42802	SELI_T1	0	0	0	0	0	0	0.08	0.16	0	0	0	0	0	0
4/13/2024 12:50	60504	NMAN_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
4/13/2024 12:51	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 12:51	40303	TAMA_T3	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/13/2024 12:51	40302	TAMA_T3	22	20	-2	0.32	0.37	0.05	0.3	0.31	0	0	0	0	0	0
4/13/2024 12:52	64101	REFR_T1	2	0	-2	0.4	0	-0.4	-0.76	-0.76	0	0	0	0	0	0
4/13/2024 12:53	64101	REFR_T1	2	0	-2	0.4	0	-0.4	-0.76	-0.76	0	0	0	0	0	0
4/13/2024 12:55	45901	AUBU_T1	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/13/2024 12:55	45902	AUBU_T1	113	130	17	0.21	0.21	0	-1.11	-1.12	1	1	0	600	600	0
4/13/2024 12:57	41801	GOCI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/13/2024 12:58	67605	WARW_T1	24	31	7	0.65	0.69	0.04	-1.19	-1.17	0	0	0	0	0	0
4/13/2024 12:58	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 12:59	61801	EELI_T2	0	2	2	0	0.25	0.25	-0.98	-0.93	1	1	0	600	600	0
4/13/2024 12:59	61802	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 13:00	45902	AUBU_T1	125	26	-99	0.2	0.3	0.1	-1.11	-1.12	1	1	0	600	600	0
4/13/2024 13:00	45901	AUBU_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/13/2024 13:01	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
4/13/2024 13:01	51402	LYKE_T1	10	0	-10	0.16	0	-0.16	0	0	0	0	0	0	0	0
4/13/2024 13:02	60502	NMAN_T2	0	0	0	0	0	0	-0.63	-0.57	0	0	0	0	0	0
4/13/2024 13:02	60501	NMAN_T2	3	3	0	4.1	4.3	0.2	0	0	0	0	0	0	0	0
4/13/2024 13:03	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
4/13/2024 13:03	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 13:03	67605	WARW_T1	25	39	14	0.71	0.71	0	-1.19	-1.17	0	0	0	0	0	0
4/13/2024 13:03	51402	LYKE_T1	10	0	-10	0.16	0	-0.16	0	0	0	0	0	0	0	0
4/13/2024 13:03	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 13:06	51402	LYKE_T1	10	0	-10	0.16	0	-0.16	0	0	0	0	0	0	0	0
4/13/2024 13:06	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
4/13/2024 13:07	66201	SISP_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
4/13/2024 13:07	66504	SMAN_T2	0	0	0	0	0	0	-0.67	-0.63	0	0	0	0	0	0
4/13/2024 13:11	63305	GREE_T1	0	3	3	0	0.13	0.13	-2.47	-2.44	1	1	0	900	900	0
4/13/2024 13:11	45902	AUBU_T1	125	26	-99	0.2	0.3	0.1	-1.12	-0.51	1	0	-1	600	0	-600
4/13/2024 13:11	45901	AUBU_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/13/2024 13:12	46203	DANV_T2	3	12	9	0.13	0.17	0.04	-2.28	-2.38	0	0	0	0	0	0
4/13/2024 13:12	46206	DANV_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/13/2024 13:13	46206	DANV_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/13/2024 13:13	67605	WARW_T1	25	39	14	0.71	0.71	0	-1.17	-1.17	0	0	0	0	0	0
4/13/2024 13:13	46203	DANV_T2	3	12	9	0.13	0.17	0.04	-2.28	-2.38	0	0	0	0	0	0
4/13/2024 13:13	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 13:14	63305	GREE_T1	0	3	3	0	0.13	0.13	-2.47	-2.44	1	1	0	900	900	0
4/13/2024 13:15	42903	MIDD_T2	11	2	-9	0.72	0.7	-0.02	0	0	0	0	0	0	0	0
4/13/2024 13:15	42902	MIDD_T2	9	0	-9	0.12	0	-0.12	-0.67	-0.67	0	0	0	0	0	0
4/13/2024 13:15	42901	MIDD_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/13/2024 13:16	64401	LAND_T1	1	2	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/13/2024 13:16	45702	LIND_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
4/13/2024 13:16	45902	AUBU_T1	26	1	-25	0.3	0.2	-0.1	-1.12	-0.51	1	0	-1	600	0	-600
4/13/2024 13:16	42901	MIDD_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/13/2024 13:16	42902	MIDD_T2	9	0	-9	0.12	0	-0.12	-0.67	-0.67	0	0	0	0	0	0
4/13/2024 13:16	64403	LAND_T1	0	1	1	0	0.2	0.2	-4.11	-4.12	2	2	0	1800	1800	0
4/13/2024 13:16	42903	MIDD_T2	11	2	-9	0.72	0.7	-0.02	0	0	0	0	0	0	0	0
4/13/2024 13:17	45702	LIND_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
4/13/2024 13:18	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/13/2024 13:18	12505	MITR_T2	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
4/13/2024 13:18	67605	WARW_T1	30	53	23	0.69	0.75	0.06	-1.17	-1.17	0	0	0	0	0	0
4/13/2024 13:18	12502	MITR_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
4/13/2024 13:19	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 13:21	45902	AUBU_T1	26	1	-25	0.3	0.2	-0.1	-1.12	-0.51	1	0	-1	600	0	-600
4/13/2024 13:21	65205	PRIN_T1	3	4	1	0.77	0.73	-0.04	0	0	0	0	0	0	0	0
4/13/2024 13:23	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 13:26	60901	DONG_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/13/2024 13:26	60902	DONG_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
4/13/2024 13:26	60904	DONG_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/13/2024 13:26	45902	AUBU_T1	26	1	-25	0.3	0.2	-0.1	-0.51	-0.54	0	0	0	0	0	0
4/13/2024 13:28	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/13/2024 13:28	41301	FISH_T1	2	2	0	1.45	1.3	-0.15	-0.34	-0.34	0	0	0	0	0	0
4/13/2024 13:28	67605	WARW_T1	30	53	23	0.69	0.75	0.06	-1.17	-1.17	0	0	0	0	0	0
4/13/2024 13:30	46102	MACI_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
4/13/2024 13:32	40101	HUNT_T2	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
4/13/2024 13:32	56801	BENV_T1	13	12	-1	0.68	0.75	0.07	-2.46	-2.46	3	3	0	1800	1800	0
4/13/2024 13:32	56803	BENV_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
4/13/2024 13:32	52001	LING_T1	0	0	0	0	0	0	-1.11	-1.08	0	0	0	0	0	0
4/13/2024 13:33	56803	BENV_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
4/13/2024 13:33	56801	BENV_T1	13	12	-1	0.68	0.75	0.07	-0.82	-0.82	1	1	0	600	600	0
4/13/2024 13:33	67605	WARW_T1	39	55	16	0.71	0.72	0.01	-1.17	-1.17	0	0	0	0	0	0
4/13/2024 13:33	67604	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/13/2024 13:33	56801	BENV_T1	13	12	-1	0.68	0.75	0.07	-1.64	-1.64	2	2	0	1200	1200	0
4/13/2024 13:34	56803	BENV_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
4/13/2024 13:35	56801	BENV_T1	13	12	-1	0.68	0.75	0.07	-1.64	-1.64	2	2	0	1200	1200	0
4/13/2024 13:35	56803	BENV_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
4/13/2024 13:37	67703	WERN_T2	1	1	0	0.4	1	0.6	-0.97	-0.98	1	1	0	900	900	0
4/13/2024 13:37	67702	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 13:37	67701	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/13/2024 13:38	55105	WERT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/13/2024 13:38	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 13:39	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 13:40	67703	WERN_T2	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
4/13/2024 13:40	67702	WERN_T2	0	1	1	0	0.2	0.2	-0.1	-0.05	0	0	0	0	0	0
4/13/2024 13:40	67701	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/13/2024 13:43	67605	WARW_T1	39	55	16	0.71	0.72	0.01	-1.17	-1.16	0	0	0	0	0	0
4/13/2024 13:43	67604	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/13/2024 13:43	45702	LIND_T2	0	0	0	0	0	0	-0.5	-0.45	0	0	0	0	0	0
4/13/2024 13:46	42902	MIDD_T2	0	1	1	0	0.4	0.4	-0.69	-0.71	0	0	0	0	0	0
4/13/2024 13:46	42903	MIDD_T2	2	2	0	0.65	0.95	0.3	0	0	0	0	0	0	0	0
4/13/2024 13:47	52002	LING_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
4/13/2024 13:48	63201	MGTN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 13:48	45702	LIND_T2	0	0	0	0	0	0	-1	-0.9	0	0	0	0	0	0
4/13/2024 13:48	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 13:48	42903	MIDD_T2	2	2	0	0.65	0.95	0.3	0	0	0	0	0	0	0	0
4/13/2024 13:48	51002	NHAR_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
4/13/2024 13:48	63202	MGTN_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
4/13/2024 13:48	67604	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/13/2024 13:48	42902	MIDD_T2	0	1	1	0	0.4	0.4	-0.69	-0.71	0	0	0	0	0	0
4/13/2024 13:48	67605	WARW_T1	53	52	-1	0.72	0.78	0.06	-1.17	-1.16	0	0	0	0	0	0
4/13/2024 13:48	51004	NHAR_T1	3	8	5	2.13	1.05	-1.08	-0.47	-0.44	0	0	0	0	0	0
4/13/2024 13:50	13303	ORVI_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
4/13/2024 13:50	60605	NCOL_T2	0	4	4	0	0.48	0.48	0	0	0	0	0	0	0	0
4/13/2024 13:50	58401	MORO_T1	3	2	-1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/13/2024 13:50	58402	MORO_T1	0	1	1	0	0.2	0.2	-0.66	-0.65	2	2	0	1500	1500	0
4/13/2024 13:51	67702	WERN_T2	1	1	0	0.2	0.1	-0.1	-0.1	-0.05	0	0	0	0	0	0
4/13/2024 13:51	67701	WERN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/13/2024 13:51	67703	WERN_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
4/13/2024 13:52	54601	SUMM_T2	0	3	3	0	0.17	0.17	-1.92	-1.93	2	2	0	2100	2100	0
4/13/2024 13:52	67701	WERN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/13/2024 13:52	67702	WERN_T2	1	1	0	0.2	0.1	-0.1	-0.1	-0.05	0	0	0	0	0	0
4/13/2024 13:52	67703	WERN_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
4/13/2024 13:53	45902	AUBU_T1	1	3	2	0.1	0.8	0.7	-0.56	-0.54	0	0	0	0	0	0
4/13/2024 13:53	49804	UNIV_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
4/13/2024 13:53	67703	WERN_T2	1	1	0	1	0.7	-0.3	-1	-0.99	1	1	0	900	900	0
4/13/2024 13:53	59101	WALK_T2	1	2	1	0.3	0.5	0.2	-1.48	-1.51	0	0	0	0	0	0
4/13/2024 13:53	67702	WERN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/13/2024 13:53	57002	WHHI_T2	0	0	0	0	0	0	-1.54	-1.49	1	1	0	1200	1200	0
4/13/2024 13:53	67701	WERN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/13/2024 13:53	59102	WALK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/13/2024 13:53	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 13:54	67702	WERN_T2	1	1	0	0.2	0.1	-0.1	-0.1	-0.17	0	0	0	0	0	0
4/13/2024 13:54	67701	WERN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/13/2024 13:54	67703	WERN_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
4/13/2024 13:55	67702	WERN_T2	1	1	0	0.2	0.1	-0.1	-0.05	-0.08	0	0	0	0	0	0
4/13/2024 13:55	67701	WERN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/13/2024 13:55	67502	WEWI_T2	0	1	1	0	0.6	0.6	-1.62	-1.5	1	1	0	900	900	0
4/13/2024 13:55	67703	WERN_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
4/13/2024 13:56	60101	COCA_T1	1	3	2	1	0.77	-0.23	0.26	0.19	0	0	0	0	0	0
4/13/2024 13:56	61802	EELI_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
4/13/2024 13:56	61801	EELI_T2	6	5	-1	0.3	0.56	0.26	0	0	0	0	0	0	0	0
4/13/2024 13:58	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 13:58	67604	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/13/2024 13:58	67605	WARW_T1	53	52	-1	0.72	0.78	0.06	-1.16	-1.15	0	0	0	0	0	0
4/13/2024 13:58	45902	AUBU_T1	1	3	2	0.1	0.8	0.7	-0.56	-0.54	0	0	0	0	0	0
4/13/2024 13:59	63404	HONY_T1	11	57	46	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
4/13/2024 13:59	63401	HONY_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
4/13/2024 14:00	45701	LIND_T2	0	0	0	0	0	0	-1.12	-1.13	0	0	0	0	0	0
4/13/2024 14:00	52004	LING_T2	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
4/13/2024 14:03	64302	LINC_T2	0	0	0	0	0	0	0.91	0.91	0	0	0	0	0	0
4/13/2024 14:03	67703	WERN_T2	1	1	0	0.7	0.2	-0.5	-1	-0.99	1	1	0	900	900	0
4/13/2024 14:03	67603	WARW_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
4/13/2024 14:03	67702	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/13/2024 14:03	52004	LING_T2	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
4/13/2024 14:03	67604	WARW_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/13/2024 14:03	67605	WARW_T1	47	52	5	0.76	0.79	0.03	-1.16	-1.15	0	0	0	0	0	0
4/13/2024 14:05	67703	WERN_T2	1	1	0	0.7	0.2	-0.5	-1	-0.99	1	1	0	900	900	0
4/13/2024 14:05	67702	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/13/2024 14:07	51301	WIND_T1	0	0	0	0	0	0	-0.33	-0.37	0	0	0	0	0	0
4/13/2024 14:07	51305	WIND_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 14:08	66702	STRA_T1	0	0	0	0	0	0	-0.06	-0.05	2	2	0	1500	1500	0
4/13/2024 14:08	66701	STRA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 14:08	64101	REFR_T1	0	5	5	0	0.24	0.24	-0.78	-0.83	0	0	0	0	0	0
4/13/2024 14:09	45902	AUBU_T1	1	3	2	0.6	0.83	0.23	-0.54	-0.53	0	0	0	0	0	0
4/13/2024 14:09	15203	SFAR_T2	106	161	55	0.25	0.38	0.13	-3.06	-2.99	0	0	0	0	0	0
4/13/2024 14:10	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 14:10	46203	DANV_T2	65	54	-11	0.24	0.24	0	-2.38	-2.38	0	0	0	0	0	0
4/13/2024 14:10	15203	SFAR_T2	106	161	55	0.25	0.38	0.13	-1.53	-1.5	0	0	0	0	0	0
4/13/2024 14:11	46203	DANV_T2	65	54	-11	0.24	0.24	0	-2.38	-2.38	0	0	0	0	0	0
4/13/2024 14:11	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 14:12	15203	SFAR_T2	106	161	55	0.25	0.38	0.13	-1.53	-1.5	0	0	0	0	0	0
4/13/2024 14:13	67605	WARW_T1	47	52	5	0.76	0.79	0.03	-1.15	-1.14	0	0	0	0	0	0
4/13/2024 14:13	67603	WARW_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
4/13/2024 14:13	67604	WARW_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/13/2024 14:14	45902	AUBU_T1	1	3	2	0.6	0.83	0.23	-0.54	-0.53	0	0	0	0	0	0
4/13/2024 14:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 14:15	67602	WARW_T2	0	0	0	0	0	0	0.24	1.18	0	1	1	0	300	300
4/13/2024 14:16	65401	MARI_T1	1	1	0	0.2	0.4	0.2	-0.4	-0.41	0	0	0	0	0	0
4/13/2024 14:16	60801	BUCK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 14:16	60803	BUCK_T1	0	0	0	0	0	0	-0.52	-0.53	1	1	0	600	600	0
4/13/2024 14:16	65402	MARI_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/13/2024 14:17	51002	NHAR_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
4/13/2024 14:17	42902	MIDD_T2	1	1	0	0.4	0.5	0.1	-0.7	-0.71	0	0	0	0	0	0
4/13/2024 14:17	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
4/13/2024 14:17	51004	NHAR_T1	8	13	5	1.05	1	-0.05	-0.44	-0.42	0	0	0	0	0	0
4/13/2024 14:17	42903	MIDD_T2	2	2	0	0.95	1.3	0.35	0	0	0	0	0	0	0	0
4/13/2024 14:18	42902	MIDD_T2	1	1	0	0.4	0.5	0.1	-0.7	-0.71	0	0	0	0	0	0
4/13/2024 14:18	42903	MIDD_T2	2	2	0	0.95	1.3	0.35	0	0	0	0	0	0	0	0
4/13/2024 14:19	67605	WARW_T1	52	47	-5	0.77	0.72	-0.05	-1.15	-1.14	0	0	0	0	0	0
4/13/2024 14:19	67603	WARW_T1	1	2	1	0.2	0.65	0.45	0	0	0	0	0	0	0	0
4/13/2024 14:19	45702	LIND_T2	0	0	0	0	0	0	-1.04	-0.98	0	0	0	0	0	0
4/13/2024 14:19	51402	LYKE_T1	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/13/2024 14:19	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
4/13/2024 14:21	65604	QVIL_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
4/13/2024 14:21	65601	QVIL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/13/2024 14:22	13604	RICH_T2	0	0	0	0	0	0	-0.42	-0.44	1	1	0	600	600	0
4/13/2024 14:22	42802	SELI_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
4/13/2024 14:22	67505	WEWI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 14:22	13606	RICH_T2	1	2	1	6.4	3.55	-2.85	0	0	0	0	0	0	0	0
4/13/2024 14:22	67501	WEWI_T1	2	5	3	0.55	0.68	0.13	-1.26	-1.29	1	1	0	600	600	0
4/13/2024 14:23	15203	SFAR_T2	142	167	25	0.31	0.37	0.06	-1.53	-1.5	0	0	0	0	0	0
4/13/2024 14:23	44301	BEAV_T2	0	3	3	0	0.1	0.1	-0.51	-0.54	1	1	0	600	600	0
4/13/2024 14:23	44302	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 14:24	51402	LYKE_T1	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/13/2024 14:24	51101	CARL_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/13/2024 14:24	67703	WERN_T2	1	1	0	0.1	0.8	0.7	-2.02	-2.02	2	2	0	1800	1800	0
4/13/2024 14:24	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
4/13/2024 14:24	51107	CARL_T1	0	1	1	0	0.4	0.4	-0.45	-0.36	0	0	0	0	0	0
4/13/2024 14:24	51108	CARL_T1	1	5	4	0.2	0.22	0.02	0	0	0	0	0	0	0	0
4/13/2024 14:24	51102	CARL_T1	3	45	42	0.13	0.25	0.12	0	0	0	0	0	0	0	0
4/13/2024 14:24	61701	ELIZ_T1	2	1	-1	3.25	5.8	2.55	0.34	0.2	0	0	0	0	0	0
4/13/2024 14:24	45902	AUBU_T1	3	3	0	0.8	1.03	0.23	-0.53	-0.52	0	0	0	0	0	0
4/13/2024 14:24	61703	ELIZ_T1	3	5	2	0.4	0.44	0.04	0	0	0	0	0	0	0	0
4/13/2024 14:24	51109	CARL_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/13/2024 14:24	67702	WERN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/13/2024 14:25	67703	WERN_T2	1	1	0	0.1	0.8	0.7	-1.01	-1.01	1	1	0	900	900	0
4/13/2024 14:25	67501	WEWI_T1	2	5	3	0.55	0.68	0.13	-1.29	-1.3	1	1	0	600	600	0
4/13/2024 14:25	67702	WERN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/13/2024 14:25	67505	WEWI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 14:26	15203	SFAR_T2	142	167	25	0.31	0.37	0.06	-1.5	-1.51	0	0	0	0	0	0
4/13/2024 14:27	61506	EPET_T2	0	0	0	0	0	0	-1.32	-1.26	1	1	0	900	900	0
4/13/2024 14:27	12003	HATF_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/13/2024 14:27	12002	HATF_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
4/13/2024 14:27	12001	HATF_T1	1	0	-1	2.3	0	-2.3	0	0	0	0	0	0	0	0
4/13/2024 14:27	12006	HATF_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/13/2024 14:28	61505	EPET_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/13/2024 14:28	67605	WARW_T1	52	47	-5	0.77	0.72	-0.05	-1.14	-1.17	0	0	0	0	0	0
4/13/2024 14:28	67605	WARW_T1	52	47	-5	0.77	0.72	-0.05	-1.14	-1.17	0	0	0	0	0	0
4/13/2024 14:28	67605	WARW_T1	52	47	-5	0.77	0.72	-0.05	-1.14	-1.17	0	0	0	0	0	0
4/13/2024 14:28	67605	WARW_T1	52	47	-5	0.77	0.72	-0.05	-1.14	-1.17	0	0	0	0	0	0
4/13/2024 14:28	67603	WARW_T1	1	2	1	0.2	0.65	0.45	0	0	0	0	0	0	0	0
4/13/2024 14:28	61502	EPET_T1	1	1	0	0.4	0.5	0.1	-1.39	-1.4	0	0	0	0	0	0
4/13/2024 14:29	60102	COCA_T1	0	0	0	0	0	0	0.31	0.23	1	1	0	600	600	0
4/13/2024 14:29	67605	WARW_T1	52	47	-5	0.77	0.72	-0.05	-1.14	-1.17	0	0	0	0	0	0
4/13/2024 14:29	45902	AUBU_T1	3	3	0	0.8	1.03	0.23	-0.53	-0.52	0	0	0	0	0	0
4/13/2024 14:29	60101	COCA_T1	2	3	1	0.9	0.77	-0.13	0	0	0	0	0	0	0	0
4/13/2024 14:29	67603	WARW_T1	1	2	1	0.2	0.65	0.45	0	0	0	0	0	0	0	0
4/13/2024 14:30	60101	COCA_T1	3	5	2	0.77	0.4	-0.37	0	0	0	0	0	0	0	0
4/13/2024 14:30	60102	COCA_T1	0	0	0	0	0	0	0.31	0.23	1	1	0	600	600	0
4/13/2024 14:31	12701	MACU_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
4/13/2024 14:31	47101	MARL_T1	1	1	0	1.8	0	-1.8	-0.89	-0.3	1	0	-1	600	0	-600
4/13/2024 14:33	12701	MACU_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/13/2024 14:33	67603	WARW_T1	2	2	0	0.65	0.3	-0.35	0	0	0	0	0	0	0	0
4/13/2024 14:33	67605	WARW_T1	47	40	-7	0.71	0.66	-0.05	-1.14	-1.17	0	0	0	0	0	0
4/13/2024 14:34	54601	SUMM_T2	4	4	0	0.28	0.35	0.07	-1.95	-1.95	2	2	0	2100	2100	0
4/13/2024 14:34	54001	SDLE_T1	4	6	2	0.9	0.82	-0.08	0	0	1	1	0	600	600	0
4/13/2024 14:35	54001	SDLE_T1	4	6	2	0.9	0.82	-0.08	0	0	2	2	0	1200	1200	0
4/13/2024 14:36	57006	WHHI_T2	2	1	-1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
4/13/2024 14:36	50701	SMEC_T1	3	3	0	0.47	0.33	-0.14	-2.22	-2.24	1	1	0	900	900	0
4/13/2024 14:36	57001	WHHI_T2	0	0	0	0	0	0	-0.39	-0.37	1	1	0	900	900	0
4/13/2024 14:36	65604	QVIL_T2	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
4/13/2024 14:36	65601	QVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/13/2024 14:37	67804	WLAN_T1	0	0	0	0	0	0	-2.18	-2.24	0	0	0	0	0	0
4/13/2024 14:37	43302	WATS_T2	4	4	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/13/2024 14:37	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 14:37	67801	WLAN_T1	1	2	1	4.4	0	-4.4	0	0	0	0	0	0	0	0
4/13/2024 14:37	54001	SDLE_T1	4	6	2	0.9	0.82	-0.08	0	0	1	1	0	600	600	0
4/13/2024 14:37	58401	MORO_T1	3	2	-1	0.3	0.35	0.05	-1.22	-1.2	1	1	0	600	600	0
4/13/2024 14:37	43301	WATS_T2	1	1	0	0.2	0.1	-0.1	-0.76	-0.78	1	1	0	900	900	0
4/13/2024 14:38	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 14:40	67702	WERN_T2	0	1	1	0	0.5	0.5	-0.05	-0.13	0	0	0	0	0	0
4/13/2024 14:40	61701	ELIZ_T1	1	2	1	5.6	3	-2.6	0	0	0	0	0	0	0	0
4/13/2024 14:40	10801	OHHI_T1	9	3	-6	0.33	0.87	0.54	-1.57	-0.96	2	1	-1	1500	900	-600
4/13/2024 14:40	67701	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 14:40	45501	DERR_T2	0	0	0	0	0	0	-0.6	-0.64	2	2	0	1800	1800	0
4/13/2024 14:40	67703	WERN_T2	1	3	2	0.2	0.53	0.33	-2.02	-2.04	2	2	0	1800	1800	0
4/13/2024 14:40	15203	SFAR_T2	156	171	15	0.38	0.33	-0.05	-1.51	-1.52	0	0	0	0	0	0
4/13/2024 14:40	45902	AUBU_T1	3	3	0	0.83	1.7	0.87	-0.52	-0.49	0	0	0	0	0	0
4/13/2024 14:40	61703	ELIZ_T1	2	5	3	0.2	0.44	0.24	-2.57	-2.46	2	2	0	2100	2100	0
4/13/2024 14:41	67702	WERN_T2	0	1	1	0	0.5	0.5	-0.05	-0.13	0	0	0	0	0	0
4/13/2024 14:41	61703	ELIZ_T1	2	5	3	0.2	0.44	0.24	-5.14	-4.93	4	4	0	4200	4200	0
4/13/2024 14:41	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 14:41	61701	ELIZ_T1	1	2	1	5.6	3	-2.6	0	0	0	0	0	0	0	0
4/13/2024 14:41	67703	WERN_T2	1	3	2	0.2	0.53	0.33	0	0	0	0	0	0	0	0
4/13/2024 14:41	67701	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 14:42	67701	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 14:42	61701	ELIZ_T1	1	2	1	5.6	3	-2.6	0	0	0	0	0	0	0	0
4/13/2024 14:42	61703	ELIZ_T1	2	5	3	0.2	0.44	0.24	-2.57	-2.46	2	2	0	2100	2100	0
4/13/2024 14:42	67702	WERN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/13/2024 14:42	67703	WERN_T2	1	3	2	0.2	0.53	0.33	-1.01	-1.02	1	1	0	900	900	0
4/13/2024 14:42	65703	RVIL_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/13/2024 14:42	40101	HUNT_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
4/13/2024 14:42	65701	RVIL_T1	0	1	1	0	0.2	0.2	-1.95	-1.98	0	0	0	0	0	0
4/13/2024 14:44	61701	ELIZ_T1	1	2	1	5.6	3	-2.6	0	0	0	0	0	0	0	0
4/13/2024 14:44	61703	ELIZ_T1	2	5	3	0.2	0.44	0.24	-2.57	-2.46	2	2	0	2100	2100	0
4/13/2024 14:45	45902	AUBU_T1	3	3	0	1.03	1.7	0.67	-0.52	-0.49	0	0	0	0	0	0
4/13/2024 14:46	58301	NOTT_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/13/2024 14:46	58302	NOTT_T1	2	3	1	0.85	0.6	-0.25	-1.25	-1.2	1	1	0	1200	1200	0
4/13/2024 14:48	58401	MORO_T1	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/13/2024 14:48	42903	MIDD_T2	2	2	0	1.2	1.1	-0.1	-0.39	-0.26	0	0	0	0	0	0
4/13/2024 14:48	58402	MORO_T1	0	1	1	0	0	0	-0.49	-0.54	2	2	0	1500	1500	0
4/13/2024 14:48	42902	MIDD_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/13/2024 14:51	58401	MORO_T1	2	1	-1	0.3	0.2	-0.1	-1.2	-1.24	1	1	0	600	600	0
4/13/2024 14:51	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 14:52	67501	WEWI_T1	3	2	-1	0.53	0.9	0.37	-1.3	-1.36	1	1	0	600	600	0
4/13/2024 14:52	67505	WEWI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/13/2024 14:54	51303	WIND_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/13/2024 14:54	67804	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 14:54	67801	WLAN_T1	2	1	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/13/2024 14:54	51301	WIND_T1	2	5	3	0.5	0.38	-0.12	0	0	0	0	0	0	0	0
4/13/2024 14:54	67803	WLAN_T1	0	0	0	0	0	0	-0.92	-0.93	0	0	0	0	0	0
4/13/2024 14:54	66703	STRA_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
4/13/2024 14:54	51305	WIND_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
4/13/2024 14:55	57006	WHHI_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/13/2024 14:55	57004	WHHI_T2	0	0	0	0	0	0	-0.67	-0.71	0	0	0	0	0	0
4/13/2024 14:55	67804	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 14:55	67801	WLAN_T1	2	1	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/13/2024 14:55	67803	WLAN_T1	0	0	0	0	0	0	-0.92	-0.93	0	0	0	0	0	0
4/13/2024 14:56	45902	AUBU_T1	3	3	0	1.03	1.7	0.67	-0.49	-0.51	0	0	0	0	0	0
4/13/2024 14:56	51303	WIND_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/13/2024 14:56	10602	BLGL_T2	2	2	0	0.4	1.05	0.65	0.06	0.05	0	0	0	0	0	0
4/13/2024 14:56	51305	WIND_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
4/13/2024 14:56	51301	WIND_T1	2	5	3	0.5	0.38	-0.12	0	0	0	0	0	0	0	0
4/13/2024 14:57	60803	BUCK_T1	0	0	0	0	0	0	-0.55	-0.54	1	1	0	600	600	0
4/13/2024 14:57	60801	BUCK_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/13/2024 14:58	61703	ELIZ_T1	5	3	-2	0.44	0.5	0.06	-2.46	-2.54	2	2	0	2100	2100	0
4/13/2024 14:58	40101	HUNT_T2	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
4/13/2024 14:58	61701	ELIZ_T1	1	2	1	5.8	3.1	-2.7	0	0	0	0	0	0	0	0
4/13/2024 14:59	67603	WARW_T1	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/13/2024 14:59	67605	WARW_T1	40	19	-21	0.66	0.77	0.11	-1.19	-1.18	0	0	0	0	0	0
4/13/2024 15:00	53501	EVIL_T2	6	6	0	0.58	0.63	0.05	0	0	0	0	0	0	0	0
4/13/2024 15:00	53502	EVIL_T2	0	0	0	0	0	0	0.55	0.57	0	0	0	0	0	0
4/13/2024 15:01	45702	LIND_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
4/13/2024 15:01	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
4/13/2024 15:01	45902	AUBU_T1	3	3	0	1.7	1.6	-0.1	-0.49	-0.51	0	0	0	0	0	0
4/13/2024 15:03	13302	ORVI_T2	11	6	-5	0.35	0.6	0.25	1.31	1.33	0	0	0	0	0	0
4/13/2024 15:03	45701	LIND_T2	0	0	0	0	0	0	-1.13	-1.14	0	0	0	0	0	0
4/13/2024 15:03	13103	NHAM_T2	0	0	0	0	0	0	-1.71	-1.72	1	1	0	600	600	0
4/13/2024 15:03	67603	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/13/2024 15:03	12601	MACA_T1	1	0	-1	0.1	0	-0.1	0.71	0.71	0	0	0	0	0	0
4/13/2024 15:03	12605	MACA_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/13/2024 15:03	12606	MACA_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
4/13/2024 15:03	67605	WARW_T1	19	20	1	0.75	0.68	-0.07	-1.19	-1.18	0	0	0	0	0	0
4/13/2024 15:04	47401	PENS_T1	2	3	1	0.65	0.8	0.15	0.84	0.8	0	0	0	0	0	0
4/13/2024 15:04	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
4/13/2024 15:04	66504	SMAN_T2	1	1	0	0.6	0.5	-0.1	-1.25	-1.27	0	0	0	0	0	0
4/13/2024 15:04	66505	SMAN_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
4/13/2024 15:04	47402	PENS_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/13/2024 15:06	13302	ORVI_T2	11	6	-5	0.35	0.6	0.25	1.31	1.33	0	0	0	0	0	0
4/13/2024 15:06	43302	WATS_T2	4	3	-1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/13/2024 15:06	43304	WATS_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
4/13/2024 15:06	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
4/13/2024 15:07	60605	NCOL_T2	4	1	-3	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/13/2024 15:08	14602	SWHI_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/13/2024 15:08	65603	QVIL_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
4/13/2024 15:08	16302	ALPA_T2	1	2	1	0.1	0.35	0.25	-0.86	-0.81	0	0	0	0	0	0
4/13/2024 15:08	65601	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 15:08	14603	SWHI_T1	2	4	2	0.45	0.5	0.05	-1.69	-1.71	2	2	0	1200	1200	0
4/13/2024 15:08	14601	SWHI_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
4/13/2024 15:09	60605	NCOL_T2	4	1	-3	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/13/2024 15:09	43302	WATS_T2	4	3	-1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/13/2024 15:09	43304	WATS_T2	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
4/13/2024 15:09	10801	OHH_T1	0	0	0	0	0	0	-0.96	-0.98	1	1	0	900	900	0
4/13/2024 15:10	14602	SWHI_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/13/2024 15:10	14601	SWHI_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
4/13/2024 15:10	14603	SWHI_T1	2	4	2	0.45	0.5	0.05	-1.71	-1.69	2	2	0	1200	1200	0
4/13/2024 15:11	16301	ALPA_T1	3	6	3	0.2	0.35	0.15	-0.41	-0.43	0	0	0	0	0	0
4/13/2024 15:12	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.04	0	0	0	0	0	0
4/13/2024 15:12	61703	ELIZ_T1	3	3	0	0.5	0.43	-0.07	-2.54	-2.53	2	2	0	2100	2100	0
4/13/2024 15:12	61701	ELIZ_T1	2	2	0	2.9	3	0.1	0	0	0	0	0	0	0	0
4/13/2024 15:13	10705	CATA_T2	0	0	0	0	0	0	-0.99	-0.98	1	1	0	900	900	0
4/13/2024 15:13	10702	CATA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/13/2024 15:14	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.6	0	0	0	0	0	0
4/13/2024 15:14	41502	FAIR_T2	0	0	0	0	0	0	-1.38	-1.36	0	0	0	0	0	0
4/13/2024 15:15	59302	MCAL_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/13/2024 15:15	59301	MCAL_T1	12	11	-1	0.73	0.77	0.04	-1.85	-1.84	1	1	0	600	600	0
4/13/2024 15:16	41801	GOCI_T2	3	2	-1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/13/2024 15:18	59302	MCAL_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/13/2024 15:18	59301	MCAL_T1	12	11	-1	0.73	0.77	0.04	-1.85	-1.84	1	1	0	600	600	0
4/13/2024 15:21	67001	STHI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 15:21	67002	STHI_T2	2	4	2	0.3	0.28	-0.02	0.58	0.52	0	0	0	0	0	0
4/13/2024 15:22	20403	ASHF_T2	2	5	3	0.1	0.33	0.23	0.14	0.16	0	0	0	0	0	0
4/13/2024 15:22	20401	ASHF_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/13/2024 15:23	20401	ASHF_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/13/2024 15:23	20403	ASHF_T2	2	5	3	0.1	0.33	0.23	0.16	0.17	0	0	0	0	0	0
4/13/2024 15:25	15203	SFAR_T2	136	147	11	0.32	0.37	0.05	-1.54	-1.51	0	0	0	0	0	0
4/13/2024 15:25	15204	SFAR_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/13/2024 15:25	67501	WEWI_T1	2	3	1	0.9	0.67	-0.23	-1.27	-1.31	1	1	0	600	600	0
4/13/2024 15:25	67001	STHI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 15:25	67002	STHI_T2	2	4	2	0.3	0.28	-0.02	0.52	0.53	0	0	0	0	0	0
4/13/2024 15:27	45902	AUBU_T1	3	4	1	1.37	1.23	-0.14	-0.51	-0.55	0	0	0	0	0	0
4/13/2024 15:27	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.02	0	0	0	0	0	0
4/13/2024 15:29	13503	MCMI_T2	1	8	7	0.1	0.15	0.05	-0.86	-0.85	0	0	0	0	0	0
4/13/2024 15:31	13503	MCMI_T2	7	8	1	0.13	0.15	0.02	-0.86	-0.85	0	0	0	0	0	0
4/13/2024 15:32	45902	AUBU_T1	3	4	1	1.6	0.63	-0.97	-0.51	-0.55	0	0	0	0	0	0
4/13/2024 15:34	13503	MCMI_T2	7	8	1	0.13	0.15	0.02	-0.86	-0.85	0	0	0	0	0	0
4/13/2024 15:34	39601	LMID_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/13/2024 15:35	58402	MORO_T1	0	0	0	0	0	0	-0.59	-0.57	2	2	0	1500	1500	0
4/13/2024 15:35	67703	WERN_T2	2	2	0	0.6	0.55	-0.05	-1	-1.03	1	1	0	900	900	0
4/13/2024 15:35	58401	MORO_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/13/2024 15:35	67701	WERN_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/13/2024 15:35	67702	WERN_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
4/13/2024 15:36	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 15:36	14603	SWHI_T1	4	7	3	0.48	0.46	-0.02	0	0	0	0	0	0	0	0
4/13/2024 15:36	14601	SWHI_T1	1	1	0	1	0.8	-0.2	-0.97	-0.96	0	0	0	0	0	0
4/13/2024 15:36	60605	NCOL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/13/2024 15:37	20403	ASHF_T2	0	5	5	0	0.33	0.33	0.16	0.17	0	0	0	0	0	0
4/13/2024 15:37	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 15:38	14603	SWHI_T1	4	7	3	0.48	0.46	-0.02	0	0	0	0	0	0	0	0
4/13/2024 15:38	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 15:38	14601	SWHI_T1	1	1	0	1	0.8	-0.2	-0.97	-0.96	0	0	0	0	0	0
4/13/2024 15:38	66703	STRA_T1	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
4/13/2024 15:40	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 15:40	14603	SWHI_T1	4	7	3	0.48	0.46	-0.02	0	0	0	0	0	0	0	0
4/13/2024 15:40	14601	SWHI_T1	1	1	0	1	0.8	-0.2	-0.96	-0.96	0	0	0	0	0	0
4/13/2024 15:40	62105	ELAN_T1	1	2	1	0.6	0.2	-0.4	0.37	0.34	0	0	0	0	0	0
4/13/2024 15:40	15201	SFAR_T1	0	0	0	0	0	0	-0.12	-0.18	1	1	0	1200	1200	0
4/13/2024 15:40	20401	ASHF_T2	0	2	2	0	0.1	0.1	-0.41	-0.42	0	0	0	0	0	0
4/13/2024 15:40	20403	ASHF_T2	0	5	5	0	0.33	0.33	0.17	0.18	0	0	0	0	0	0
4/13/2024 15:41	14201	EALL_T1	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
4/13/2024 15:41	62105	ELAN_T1	1	2	1	0.6	0.2	-0.4	0.37	0.34	0	0	0	0	0	0
4/13/2024 15:42	53502	EVIL_T2	0	0	0	0	0	0	0.55	0.59	0	0	0	0	0	0
4/13/2024 15:42	11804	FRAN_T1	5	3	-2	0.72	0.7	-0.02	0	0	0	0	0	0	0	0
4/13/2024 15:42	11805	FRAN_T1	3	2	-1	0.7	0.55	-0.15	-1.56	-1.65	1	1	0	1200	1200	0
4/13/2024 15:42	53501	EVIL_T2	5	8	3	0.6	0.61	0.01	0	0	0	0	0	0	0	0
4/13/2024 15:43	45902	AUBU_T1	3	4	1	1.6	0.63	-0.97	-0.55	-0.52	0	0	0	0	0	0
4/13/2024 15:44	67605	WARW_T1	17	18	1	0.55	0.53	-0.02	-1.13	-1.16	0	0	0	0	0	0
4/13/2024 15:44	14205	EALL_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
4/13/2024 15:44	52001	LING_T1	0	0	0	0	0	0	-1.1	-1.12	0	0	0	0	0	0
4/13/2024 15:46	11404	FARM_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/13/2024 15:46	11405	FARM_T1	39	29	-10	0.13	0.12	-0.01	-1.16	-1.15	1	1	0	1200	1200	0
4/13/2024 15:46	11402	FARM_T1	4	3	-1	0.18	0.2	0.02	0	0	0	0	0	0	0	0
4/13/2024 15:47	53902	HALI_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
4/13/2024 15:47	53901	HALI_T2	1	1	0	0.7	0.8	0.1	-1.06	-1.06	0	0	0	0	0	0
4/13/2024 15:47	53903	HALI_T2	5	6	1	0.82	0.73	-0.09	0	0	0	0	0	0	0	0
4/13/2024 15:48	67605	WARW_T1	18	14	-4	0.52	0.49	-0.03	-1.13	-1.16	0	0	0	0	0	0
4/13/2024 15:48	45902	AUBU_T1	4	4	0	0.63	0.5	-0.13	-0.55	-0.52	0	0	0	0	0	0
4/13/2024 15:48	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 15:49	58401	MORO_T1	1	1	0	0.4	0.2	-0.2	-1.22	-1.26	1	1	0	600	600	0
4/13/2024 15:49	44202	POIN_T2	0	1	1	0	0.2	0.2	-1.01	-1.03	1	1	0	1200	1200	0
4/13/2024 15:50	14802	TREI_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
4/13/2024 15:50	44201	POIN_T2	0	1	1	0	0.2	0.2	-1.01	-1.03	1	1	0	1200	1200	0
4/13/2024 15:53	14802	TREI_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
4/13/2024 15:53	45902	AUBU_T1	4	4	0	0.63	0.5	-0.13	-0.52	-0.53	0	0	0	0	0	0
4/13/2024 15:55	27502	WEIS_T2	0	0	0	0	0	0	-0.8	-0.67	0	0	0	0	0	0
4/13/2024 15:55	60803	BUCK_T1	0	0	0	0	0	0	-0.53	-0.55	1	1	0	600	600	0
4/13/2024 15:57	44201	BEAV_T2	0	1	1	0	0.1	0.1	-0.57	-0.53	1	1	0	600	600	0
4/13/2024 15:58	67605	WARW_T1	18	14	-4	0.52	0.49	-0.03	-1.16	-1.15	0	0	0	0	0	0
4/13/2024 15:58	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 15:59	14204	EALL_T2	0	0	0	0	0	0	-0.81	-0.8	0	0	0	0	0	0
4/13/2024 15:59	45902	AUBU_T1	4	4	0	0.63	0.5	-0.13	-0.52	-0.53	0	0	0	0	0	0
4/13/2024 16:02	47403	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/13/2024 16:02	47401	PENS_T1	4	4	0	0.98	0.65	-0.33	0.85	0.62	0	0	0	0	0	0
4/13/2024 16:02	40902	JESH_T1	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
4/13/2024 16:03	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 16:03	67605	WARW_T1	14	8	-6	0.49	0.39	-0.1	-1.16	-1.15	0	0	0	0	0	0
4/13/2024 16:05	47401	PENS_T1	4	4	0	0.98	0.65	-0.33	0.85	0.62	0	0	0	0	0	0
4/13/2024 16:05	47403	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/13/2024 16:06	47401	PENS_T1	4	4	0	0.98	0.65	-0.33	0.85	0.62	0	0	0	0	0	0
4/13/2024 16:06	47403	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/13/2024 16:11	40602	PIGR_T1	47	0	-47	9.12	0	-9.12	0	0	0	0	0	0	0	0
4/13/2024 16:11	40603	PIGR_T1	0	1	1	0	0.1	0.1	-0.85	-0.88	1	1	0	900	900	0
4/13/2024 16:11	40601	PIGR_T1	16	43	27	0.29	0.22	-0.07	0	0	0	0	0	0	0	0
4/13/2024 16:12	10707	CATA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/13/2024 16:12	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 16:12	10705	CATA_T2	0	1	1	0	0	0	-0.97	-1.02	1	1	0	900	900	0
4/13/2024 16:12	40601	PIGR_T1	16	43	27	0.29	0.22	-0.07	-0.14	-0.16	0	0	0	0	0	0
4/13/2024 16:12	40602	PIGR_T1	47	0	-47	9.12	0	-9.12	0	0	0	0	0	0	0	0
4/13/2024 16:12	10702	CATA_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/13/2024 16:13	51102	CARL_T1	6	5	-1	0.32	0.34	0.02	0	0	0	0	0	0	0	0
4/13/2024 16:13	51104	CARL_T1	0	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0
4/13/2024 16:13	67605	WARW_T1	14	8	-6	0.49	0.39	-0.1	-1.15	-1.1	0	0	0	0	0	0
4/13/2024 16:13	51101	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 16:13	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 16:13	51109	CARL_T1	0	0	0	0	0	0	-1.06	-1.01	1	1	0	1200	1200	0
4/13/2024 16:14	41202	KENM_T2	1	1	0	0.2	0.3	0.1	-0.56	-0.56	0	0	0	0	0	0
4/13/2024 16:18	47401	PENS_T1	3	3	0	0.83	0.7	-0.13	0.62	0.66	0	0	0	0	0	0
4/13/2024 16:18	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/13/2024 16:18	47403	PENS_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/13/2024 16:18	67605	WARW_T1	8	4	-4	0.39	0.3	-0.09	-1.15	-1.1	0	0	0	0	0	0
4/13/2024 16:21	40603	PIGR_T1	1	0	-1	0.1	0	-0.1	-0.85	-0.88	1	1	0	900	900	0
4/13/2024 16:21	40602	PIGR_T1	3	5	2	0.57	0.8	0.23	0	0	0	0	0	0	0	0
4/13/2024 16:21	40601	PIGR_T1	10	42	32	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/13/2024 16:21	47403	PENS_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/13/2024 16:21	41902	REED_T1	0	0	0	0	0	0	0.81	0.89	0	0	0	0	0	0
4/13/2024 16:21	47401	PENS_T1	3	3	0	0.83	0.7	-0.13	0.62	0.66	0	0	0	0	0	0
4/13/2024 16:22	47403	PENS_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/13/2024 16:22	41902	REED_T1	0	0	0	0	0	0	0.81	0.89	0	0	0	0	0	0
4/13/2024 16:22	47401	PENS_T1	3	3	0	0.83	0.7	-0.13	0.62	0.66	0	0	0	0	0	0
4/13/2024 16:23	47403	PENS_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/13/2024 16:23	47401	PENS_T1	3	3	0	0.83	0.7	-0.13	0.62	0.66	0	0	0	0	0	0
4/13/2024 16:26	40601	PIGR_T1	10	42	32	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/13/2024 16:26	40602	PIGR_T1	3	5	2	0.57	0.8	0.23	-0.52	-0.55	1	1	0	600	600	0
4/13/2024 16:26	40603	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/13/2024 16:28	40602	PIGR_T1	3	5	2	0.57	0.8	0.23	-0.52	-0.55	1	1	0	600	600	0
4/13/2024 16:28	40603	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/13/2024 16:28	40601	PIGR_T1	10	42	32	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/13/2024 16:29	41801	GOCI_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/13/2024 16:30	51402	LYKE_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 16:30	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
4/13/2024 16:36	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
4/13/2024 16:36	51402	LYKE_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 16:38	45901	AUBU_T1	0	0	0	0	0	0	0.98	0.96	0	0	0	0	0	0
4/13/2024 16:38	47001	HUGH_T2	0	0	0	0	0	0	-3.62	-3.64	2	2	0	1800	1800	0
4/13/2024 16:38	47002	HUGH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 16:38	45902	AUBU_T1	2	3	1	0.55	0.9	0.35	0	0	0	0	0	0	0	0
4/13/2024 16:40	48302	ORWI_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
4/13/2024 16:43	67605	WARW_T1	3	7	4	0.33	0.3	-0.03	-1.11	-1.14	0	0	0	0	0	0
4/13/2024 16:43	45902	AUBU_T1	2	3	1	0.55	0.9	0.35	-0.53	-0.52	0	0	0	0	0	0
4/13/2024 16:44	40601	PIGR_T1	42	26	-16	0.23	0.23	0	-0.1	-0.11	0	0	0	0	0	0
4/13/2024 16:44	40602	PIGR_T1	5	4	-1	0.68	1.47	0.79	0	0	0	0	0	0	0	0
4/13/2024 16:45	42201	SHEN_T2	1	1	0	0.2	0.2	0	-0.03	-0.03	1	1	0	600	600	0
4/13/2024 16:46	51402	LYKE_T1	5	4	-1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/13/2024 16:46	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
4/13/2024 16:48	67605	WARW_T1	4	9	5	0.3	0.37	0.07	-1.11	-1.14	0	0	0	0	0	0
4/13/2024 16:48	17002	RIRO_T2	1	1	0	0.6	0.4	-0.2	0.29	0.27	0	0	0	0	0	0
4/13/2024 16:51	51402	LYKE_T1	5	4	-1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/13/2024 16:51	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
4/13/2024 16:55	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.86	-0.87	2	2	0	1800	1800	0
4/13/2024 16:56	40601	PIGR_T1	14	26	12	0.19	0.24	0.05	0	0	0	0	0	0	0	0
4/13/2024 16:56	40602	PIGR_T1	4	3	-1	1.15	0.4	-0.75	-0.66	-0.73	1	1	0	600	600	0
4/13/2024 16:56	45902	AUBU_T1	3	3	0	0.9	0.2	-0.7	-0.52	-0.54	0	0	0	0	0	0
4/13/2024 16:57	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.86	-0.87	2	2	0	1800	1800	0
4/13/2024 17:02	45902	AUBU_T1	3	2	-1	0.13	0.2	0.07	-0.52	-0.54	0	0	0	0	0	0
4/13/2024 17:06	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 17:09	10702	CATA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/13/2024 17:09	10701	CATA_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
4/13/2024 17:09	10705	CATA_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
4/13/2024 17:13	15203	SFAR_T2	139	135	-4	0.29	0.29	0	0	0	0	0	0	0	0	0
4/13/2024 17:13	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 17:14	15203	SFAR_T2	139	135	-4	0.29	0.29	0	0	0	0	0	0	0	0	0
4/13/2024 17:14	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 17:15	10701	CATA_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
4/13/2024 17:15	10705	CATA_T2	1	1	0	0.8	1.6	0.8	0	0	0	0	0	0	0	0
4/13/2024 17:15	10702	CATA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/13/2024 17:21	51109	CARL_T1	0	0	0	0	0	0	-1.04	-1.05	1	1	0	1200	1200	0
4/13/2024 17:23	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 17:24	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 17:28	67605	WARW_T1	8	14	6	0.4	0.43	0.03	-1.15	-1.17	0	0	0	0	0	0
4/13/2024 17:28	45802	HEGI_T2	47	48	1	1.27	1.88	0.61	0.47	0.53	0	0	0	0	0	0
4/13/2024 17:33	65001	NEFF_T2	0	0	0	0	0	0	-1.3	-1.3	1	1	0	1200	1200	0
4/13/2024 17:33	67605	WARW_T1	10	14	4	0.38	0.64	0.26	-1.15	-1.17	0	0	0	0	0	0
4/13/2024 17:34	12605	MACA_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
4/13/2024 17:35	12605	MACA_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
4/13/2024 17:39	16302	ALPA_T2	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
4/13/2024 17:40	16302	ALPA_T2	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
4/13/2024 17:41	16302	ALPA_T2	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
4/13/2024 17:43	67605	WARW_T1	10	14	4	0.38	0.64	0.26	-1.17	-1.19	0	0	0	0	0	0
4/13/2024 17:48	67605	WARW_T1	14	15	1	0.42	0.74	0.32	-1.17	-1.19	0	0	0	0	0	0
4/13/2024 17:50	43202	MVIL_T2	0	0	0	0	0	0	-0.75	-0.72	0	0	0	0	0	0
4/13/2024 17:57	12005	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 17:57	12006	HATF_T1	0	0	0	0	0	0	0.35	0.31	0	0	0	0	0	0
4/13/2024 17:58	67605	WARW_T1	14	15	1	0.42	0.74	0.32	-1.19	-1.16	0	0	0	0	0	0
4/13/2024 18:03	67605	WARW_T1	14	17	3	0.64	0.77	0.13	-1.19	-1.16	0	0	0	0	0	0
4/13/2024 18:05	12601	MACA_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
4/13/2024 18:05	45802	HEGI_T2	48	48	0	1.72	2.11	0.39	0.51	0.43	0	0	0	0	0	0
4/13/2024 18:06	47401	PENS_T1	0	0	0	0	0	0	0.65	0.59	0	0	0	0	0	0
4/13/2024 18:07	47401	PENS_T1	0	0	0	0	0	0	0.65	0.59	0	0	0	0	0	0
4/13/2024 18:16	64701	LITI_T1	0	0	0	0	0	0	0.01	0.17	0	0	0	0	0	0
4/13/2024 18:18	64701	LITI_T1	0	0	0	0	0	0	0.01	0.08	0	0	0	0	0	0
4/13/2024 18:21	41903	REED_T1	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
4/13/2024 18:32	12801	MICK_T1	0	0	0	0	0	0	-0.31	-0.3	1	1	0	600	600	0
4/13/2024 18:41	14204	EALL_T2	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
4/13/2024 18:45	20603	GRWO_T2	0	1	1	0	0.1	0.1	0.31	0.34	0	0	0	0	0	0
4/13/2024 18:54	59101	WALK_T2	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
4/13/2024 19:10	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 19:15	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/13/2024 19:15	46801	HEPB_T2	2	2	0	0.65	0.6	-0.05	0.57	0.58	0	0	0	0	0	0
4/13/2024 19:23	42501	ALTA_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/13/2024 20:12	56802	BENV_T2	0	0	0	0	0	0	-1.52	-1.53	0	0	0	0	0	0
4/13/2024 20:42	67703	WERN_T2	0	0	0	0	0	0	-1.02	-1.05	1	1	0	900	900	0
4/13/2024 21:03	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 21:03	46801	HEPB_T2	2	3	1	0.45	0.53	0.08	0.56	0.56	0	0	0	0	0	0
4/13/2024 21:05	14204	EALL_T2	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
4/13/2024 21:23	65205	PRIN_T1	1	1	0	2	2.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 21:35	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:35	14201	EALL_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
4/13/2024 21:36	12605	MACA_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
4/13/2024 21:36	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:37	17002	RIRO_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
4/13/2024 21:37	10602	BLGL_T2	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
4/13/2024 21:39	13503	MCMI_T2	21	21	0	0.18	0.18	0	-0.88	-0.89	0	0	0	0	0	0
4/13/2024 21:40	66203	SISP_T2	0	0	0	0	0	0	-1.45	-1.52	1	1	0	1200	1200	0
4/13/2024 21:41	12701	MACU_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
4/13/2024 21:41	12605	MACA_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
4/13/2024 21:41	27502	WEIS_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
4/13/2024 21:41	13302	ORVI_T2	0	1	1	0	0.2	0.2	1.36	1.24	0	0	0	0	0	0
4/13/2024 21:41	13503	MCMI_T2	21	21	0	0.18	0.18	0	-0.88	-0.89	0	0	0	0	0	0
4/13/2024 21:42	26401	INOR_T1	1	1	0	9.4	9.7	0.3	0.35	0.35	0	0	0	0	0	0
4/13/2024 21:42	45902	AUBU_T1	1	211	210	0.1	0.23	0.13	-0.72	-0.76	0	0	0	0	0	0
4/13/2024 21:42	20401	ASHF_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
4/13/2024 21:42	15201	SFAR_T1	0	0	0	0	0	0	-0.26	-0.2	1	1	0	1200	1200	0
4/13/2024 21:42	11405	FARM_T1	1	1	0	3.5	3.6	0.1	-1.13	-1.16	1	1	0	1200	1200	0
4/13/2024 21:42	45901	AUBU_T1	0	9	9	0	0.19	0.19	1	0.99	0	0	0	0	0	0
4/13/2024 21:42	64201	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/13/2024 21:42	64204	KINZ_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
4/13/2024 21:42	64203	KINZ_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
4/13/2024 21:42	64202	KINZ_T1	2	3	1	0.1	0.63	0.53	0	0	0	0	0	0	0	0
4/13/2024 21:42	25503	MADI_T1	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
4/13/2024 21:42	13303	ORVI_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
4/13/2024 21:42	20403	ASHF_T2	0	0	0	0	0	0	0.19	0.28	0	0	0	0	0	0
4/13/2024 21:43	64701	LITI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:43	13901	SEID_T1	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
4/13/2024 21:43	16302	ALPA_T2	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
4/13/2024 21:43	66504	SMAN_T2	0	0	0	0	0	0	-1.61	-1.55	0	0	0	0	0	0
4/13/2024 21:43	26703	HEML_T1	0	0	0	0	0	0	-0.88	-0.86	1	1	0	600	600	0
4/13/2024 21:44	67804	WLAN_T1	0	0	0	0	0	0	-1.13	-1.13	0	0	0	0	0	0
4/13/2024 21:44	67703	WERN_T2	0	0	0	0	0	0	-2.1	-2.15	2	2	0	1800	1800	0
4/13/2024 21:44	16301	ALPA_T1	1	1	0	0.2	0.3	0.1	-0.5	-0.48	0	0	0	0	0	0
4/13/2024 21:44	45901	AUBU_T1	0	9	9	0	0.19	0.19	0	0	0	0	0	0	0	0
4/13/2024 21:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:44	45902	AUBU_T1	1	211	210	0.1	0.23	0.13	-0.72	-0.76	0	0	0	0	0	0
4/13/2024 21:44	60101	COCA_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
4/13/2024 21:44	67605	WARW_T1	29	29	0	0.43	0.47	0.04	-2.04	-2.12	0	0	0	0	0	0
4/13/2024 21:45	45902	AUBU_T1	67	272	205	0.23	0.24	0.01	-1.44	-1.53	0	0	0	0	0	0
4/13/2024 21:45	67002	STHI_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
4/13/2024 21:45	44201	POIN_T1	44	211	167	0.13	0.27	0.14	-1.85	-1.93	1	1	0	1200	1200	0
4/13/2024 21:45	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.05	0	0	0	0	0	0
4/13/2024 21:45	67204	TEHI_T2	29	7	-22	0.11	0.1	-0.01	0.02	0.01	0	0	0	0	0	0
4/13/2024 21:45	14802	TREI_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
4/13/2024 21:45	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
4/13/2024 21:45	65001	NEFF_T2	177	227	50	0.19	0.33	0.14	-1.4	-1.4	1	1	0	1200	1200	0
4/13/2024 21:45	45901	AUBU_T1	5	10	5	0.12	0.18	0.06	0	0	0	0	0	0	0	0
4/13/2024 21:45	65702	RVIL_T2	0	0	0	0	0	0	-1.15	-1.17	1	1	0	600	600	0
4/13/2024 21:45	65205	PRIN_T1	1	1	0	2.2	1.8	-0.4	0	0	0	0	0	0	0	0
4/13/2024 21:45	48302	ORWI_T2	2	2	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
4/13/2024 21:45	67502	WEMI_T2	0	0	0	0	0	0	-1.65	-1.62	1	1	0	900	900	0
4/13/2024 21:46	67605	WARW_T1	29	29	0	0.47	0.49	0.02	0	0	0	0	0	0	0	0
4/13/2024 21:46	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:46	47101	MARL_T1	0	0	0	0	0	0	-0.23	-0.16	0	0	0	0	0	0
4/13/2024 21:46	52004	LING_T2	0	0	0	0	0	0	-0.11	-0.15	0	0	0	0	0	0
4/13/2024 21:46	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/13/2024 21:46	40303	TAMA_T3	2	2	0	0.3	0.65	0.35	0	0	0	0	0	0	0	0
4/13/2024 21:46	67603	WARW_T1	0	0	0	0	0	0	-0.12	-0.09	0	0	0	0	0	0
4/13/2024 21:46	64701	LITI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:46	40302	TAMA_T3	26	40	14	0.48	0.5	0.02	0.27	0.28	0	0	0	0	0	0
4/13/2024 21:47	51402	LYKE_T1	20	10	-10	0.22	0.15	-0.07	0	0	0	0	0	0	0	0
4/13/2024 21:47	51401	LYKE_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
4/13/2024 21:47	66703	STRA_T1	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
4/13/2024 21:47	60101	COCA_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
4/13/2024 21:47	14205	EALL_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
4/13/2024 21:47	24902	WHHA_T1	17	15	-2	1.02	0.99	-0.03	0	0	0	0	0	0	0	0
4/13/2024 21:47	67204	TEHI_T2	29	7	-22	0.11	0.1	-0.01	0.02	0.01	0	0	0	0	0	0
4/13/2024 21:47	12803	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:47	51101	CARL_T1	0	0	0	0	0	0	-1.6	-1.59	1	1	0	600	600	0
4/13/2024 21:47	41301	FISH_T1	2	2	0	1.3	1.55	0.25	-0.17	-0.19	0	0	0	0	0	0
4/13/2024 21:47	12802	MICK_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 21:47	67703	WERN_T2	0	0	0	0	0	0	-1.05	-1.08	1	1	0	900	900	0
4/13/2024 21:47	65401	MARI_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
4/13/2024 21:47	45902	AUBU_T1	67	272	205	0.23	0.24	0.01	-2.16	-2.29	0	0	0	0	0	0
4/13/2024 21:47	51107	CARL_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
4/13/2024 21:47	51102	CARL_T1	1	25	24	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/13/2024 21:47	56801	BENV_T1	11	13	2	0.94	0.86	-0.08	-0.83	-0.82	1	1	0	600	600	0
4/13/2024 21:47	20401	ASHF_T2	2	4	2	0.1	0.37	0.27	-0.47	-0.48	0	0	0	0	0	0
4/13/2024 21:47	12807	MICK_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/13/2024 21:47	10702	CATA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/13/2024 21:47	56802	BENV_T2	1	1	0	0.1	0.3	0.2	-1.53	-1.59	0	0	0	0	0	0
4/13/2024 21:47	57401	SPAN_T1	1	0	-1	9.1	0	-9.1	-1.02	-1.07	1	1	0	600	600	0
4/13/2024 21:47	16302	ALPA_T2	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
4/13/2024 21:47	54001	SOLE_T1	4	4	0	0.75	0.93	0.18	0	0	1	1	0	600	600	0
4/13/2024 21:47	45901	AUBU_T1	5	10	5	0.12	0.18	0.06	2.01	1.99	0	0	0	0	0	0
4/13/2024 21:47	51104	CARL_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/13/2024 21:47	15204	SFAR_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
4/13/2024 21:47	65603	QVIL_T2	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
4/13/2024 21:47	47001	HUGH_T2	0	0	0	0	0	0	-0.89	-0.94	0	0	0	0	0	0
4/13/2024 21:47	13302	ORVI_T2	0	6	6	0	0.12	0.12	1.36	1.24	0	0	0	0	0	0
4/13/2024 21:47	67702	WERN_T2	0	0	0	0	0	0	-0.17	-0.13	0	0	0	0	0	0
4/13/2024 21:47	65703	RVIL_T1	0	0	0	0	0	0	-0.42	-0.45	0	0	0	0	0	0
4/13/2024 21:47	10705	CATA_T2	0	0	0	0	0	0	-1.01	-1.05	1	1	0	900	900	0
4/13/2024 21:47	65503	MOJO_T2	7	15	8	0.11	0.23	0.12	-0.67	-0.7	0	0	0	0	0	0
4/13/2024 21:47	14601	SWHI_T1	0	0	0	0	0	0	-1.02	-1.01	0	0	0	0	0	0
4/13/2024 21:47	12801	MICK_T1	0	0	0	0	0	0	-0.32	-0.33	1	1	0	600	600	0
4/13/2024 21:47	15203	SFAR_T2	180	207	27	0.33	0.41	0.08	0	0	0	0	0	0	0	0
4/13/2024 21:48	47401	PENS_T1	0	1	1	0	0	0	0.55	0.52	0	0	0	0	0	0
4/13/2024 21:48	57401	SPAN_T1	1	0	-1	9.1	0	-9.1	-1.02	-1.07	1	1	0	600	600	0
4/13/2024 21:48	45902	AUBU_T1	67	272	205	0.23	0.24	0.01	-0.72	-0.76	0	0	0	0	0	0
4/13/2024 21:48	10801	CHHI_T1	0	0	0	0	0	0	-1.62	-1.01	2	1	-1	1500	900	-600
4/13/2024 21:48	61506	EPET_T2	0	0	0	0	0	0	-1.43	-1.42	1	1	0	900	900	0
4/13/2024 21:48	43301	WATS_T2	0	0	0	0	0	0	-0.79	-0.82	1	1	0	900	900	0
4/13/2024 21:48	47001	HUGH_T2	0	0	0	0	0	0	-0.89	-0.94	0	0	0	0	0	0
4/13/2024 21:48	56802	BENV_T2	1	1	0	0.1	0.3	0.2	-1.53	-1.59	0	0	0	0	0	0
4/13/2024 21:48	12005	HATF_T1	2	3	1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
4/13/2024 21:48	43302	WATS_T2	4	4	0	0.53	0.85	0.32	0	0	0	0	0	0	0	0
4/13/2024 21:48	45901	AUBU_T1	5	10	5	0.12	0.18	0.06	0	0	0	0	0	0	0	0
4/13/2024 21:48	16302	ALPA_T2	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
4/13/2024 21:48	12002	HATF_T1	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
4/13/2024 21:48	67501	WEWI_T1	0	0	0	0	0	0	-1.42	-1.41	1	1	0	600	600	0
4/13/2024 21:49	65205	PRIN_T1	1	1	0	2.2	1.8	-0.4	0	0	0	0	0	0	0	0
4/13/2024 21:49	62101	ELAN_T1	1	1	0	1.4	4.2	2.8	0	0	0	0	0	0	0	0
4/13/2024 21:49	15203	SFAR_T2	180	207	27	0.33	0.41	0.08	-1.61	-1.61	0	0	0	0	0	0
4/13/2024 21:49	59302	MCAL_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
4/13/2024 21:49	12505	MITR_T2	0	0	0	0	0	0	0.48	0.37	0	0	0	0	0	0
4/13/2024 21:49	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:49	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/13/2024 21:49	59301	MCAL_T1	0	2	2	0	0.9	0.9	-1.9	-1.89	1	1	0	600	600	0
4/13/2024 21:49	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:49	44301	BEAV_T2	0	0	0	0	0	0	-0.58	-0.6	1	1	0	600	600	0
4/13/2024 21:49	12502	MITR_T2	1	1	0	5.7	6	0.3	0	0	0	0	0	0	0	0
4/13/2024 21:49	47401	PENS_T1	0	1	1	0	0	0	0.55	0.52	0	0	0	0	0	0
4/13/2024 21:49	67702	WERN_T2	0	0	0	0	0	0	-0.17	-0.13	0	0	0	0	0	0
4/13/2024 21:49	62105	ELAN_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
4/13/2024 21:50	13302	ORVI_T2	0	6	6	0	0.12	0.12	1.36	1.24	0	0	0	0	0	0
4/13/2024 21:50	65207	PRIN_T4	9	7	-2	0.11	0.11	0	0	0	0	0	0	0	0	0
4/13/2024 21:50	61701	ELIZ_T1	1	1	0	4.9	5.4	0.5	0	0	0	0	0	0	0	0
4/13/2024 21:50	64101	REFR_T1	0	0	0	0	0	0	-1.02	-1.06	0	0	0	0	0	0
4/13/2024 21:50	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 21:50	67605	WARW_T1	29	29	0	0.47	0.49	0.02	-1.02	-1.06	0	0	0	0	0	0
4/13/2024 21:50	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:50	12601	MACA_T1	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
4/13/2024 21:50	40603	PIGR_T1	0	0	0	0	0	0	-0.62	-0.68	1	1	0	900	900	0
4/13/2024 21:50	67402	WAKE_T2	0	0	0	0	0	0	-0.52	-0.58	1	1	0	600	600	0
4/13/2024 21:50	63304	GREE_T1	138	391	253	0.15	0.21	0.06	0	0	0	0	0	0	0	0
4/13/2024 21:50	42902	MIDD_T2	1	1	0	0.7	0.6	-0.1	-0.75	-0.77	0	0	0	0	0	0
4/13/2024 21:50	40601	PIGR_T1	12	84	72	0.12	0.18	0.06	0	0	0	0	0	0	0	0
4/13/2024 21:50	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:50	14204	EALL_T2	0	0	0	0	0	0	-0.76	-0.8	0	0	0	0	0	0
4/13/2024 21:50	63305	GREE_T1	14	16	2	0.25	0.37	0.12	-2.5	-2.51	1	1	0	900	900	0
4/13/2024 21:50	61703	ELIZ_T1	0	0	0	0	0	0	-2.56	-2.59	2	2	0	2100	2100	0
4/13/2024 21:50	45501	DERR_T2	0	0	0	0	0	0	-0.8	-0.81	2	2	0	1800	1800	0
4/13/2024 21:50	10801	CHHI_T1	0	0	0	0	0	0	-1.62	-1.01	2	1	-1	1500	900	-600
4/13/2024 21:50	41202	KENM_T2	1	1	0	0.4	0.8	0.4	-0.58	-0.62	0	0	0	0	0	0
4/13/2024 21:51	60102	COCA_T1	0	0	0	0	0	0	0.23	0.3	1	1	0	600	600	0
4/13/2024 21:51	60803	BUCK_T1	0	0	0	0	0	0	-1.23	-1.25	1	1	0	600	600	0
4/13/2024 21:51	66502	SMAN_T2	0	0	0	0	0	0	-0.32	-0.2	0	0	0	0	0	0
4/13/2024 21:51	56801	BENV_T1	11	13	2	0.94	0.86	-0.08	-0.83	-0.82	1	1	0	600	600	0
4/13/2024 21:51	67002	STHI_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
4/13/2024 21:51	64403	LAND_T1	0	0	0	0	0	0	-1.08	-1.08	0	0	0	0	0	0
4/13/2024 21:51	52004	LING_T2	0	0	0	0	0	0	-0.11	-0.15	0	0	0	0	0	0
4/13/2024 21:51	53902	HALI_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
4/13/2024 21:51	63202	MGTN_T2	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
4/13/2024 21:51	57006	WHHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/13/2024 21:51	63602	LETO_T1	112	126	14	0.25	0.28	0.03	-0.58	-0.58	0	0	0	0	0	0
4/13/2024 21:51	64701	LITI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:51	67501	WEWI_T1	0	0	0	0	0	0	-1.42	-1.41	1	1	0	600	600	0
4/13/2024 21:51	63404	HONY_T1	67	131	64	0.26	0.38	0.12	0	0	0	0	0	0	0	0
4/13/2024 21:51	63401	HONY_T1	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
4/13/2024 21:51	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:51	56802	BENV_T2	1	1	0	0.1	0.3	0.2	-1.53	-1.59	0	0	0	0	0	0
4/13/2024 21:51	53903	HALI_T2	2	2	0	0.95	1.35	0.4	0	0	0	0	0	0	0	0
4/13/2024 21:51	57002	WHHI_T2	0	0	0	0	0	0	-1.59	-1.64	1	1	0	1200	1200	0
4/13/2024 21:51	67605	WARW_T1	29	29	0	0.47	0.49	0.02	-1.02	-1.06	0	0	0	0	0	0
4/13/2024 21:51	45802	HEGI_T2	47	48	1	2.14	2.45	0.31	0.41	0.41	0	0	0	0	0	0
4/13/2024 21:51	65902	SAKR_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/13/2024 21:51	53901	HALI_T2	1	1	0	0.5	0.8	0.3	-1.08	-1.1	0	0	0	0	0	0
4/13/2024 21:51	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:51	41903	REED_T1	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
4/13/2024 21:51	65901	SAKR_T2	1	1	0	9.8	9.9	0.1	-1.55	-1.5	1	1	0	900	900	0
4/13/2024 21:51	56601	HAMP_T1	0	0	0	0	0	0	-2.07	-2.07	0	0	0	0	0	0
4/13/2024 21:52	20401	ASHF_T2	2	4	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
4/13/2024 21:52	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:52	55002	NEWP_T1	3	4	1	0.57	0.73	0.16	-0.58	-0.6	0	0	0	0	0	0
4/13/2024 21:52	20403	ASHF_T2	0	0	0	0	0	0	0.19	0.28	0	0	0	0	0	0
4/13/2024 21:52	65604	QVIL_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
4/13/2024 21:52	67502	WEWI_T2	0	0	0	0	0	0	-1.65	-1.62	1	1	0	900	900	0
4/13/2024 21:52	62105	ELAN_T1	0	0	0	0	0	0	0.74	0.74	0	0	0	0	0	0
4/13/2024 21:52	61304	EARL_T1	10	9	-1	0.13	0.17	0.04	-1.12	-1.11	1	1	0	600	600	0
4/13/2024 21:52	64402	LAND_T2	0	0	0	0	0	0	-0.53	-0.57	1	1	0	600	600	0
4/13/2024 21:52	61703	ELIZ_T1	0	0	0	0	0	0	-5.12	-5.18	4	4	0	4200	4200	0
4/13/2024 21:52	13503	MCMI_T2	5	21	16	0.12	0.18	0.06	-0.88	-0.89	0	0	0	0	0	0
4/13/2024 21:52	62101	ELAN_T1	1	1	0	1.4	4.2	2.8	0	0	0	0	0	0	0	0
4/13/2024 21:52	61701	ELIZ_T1	1	1	0	4.9	5.4	0.5	0	0	0	0	0	0	0	0
4/13/2024 21:52	14603	SWHI_T1	0	0	0	0	0	0	-1.74	-1.75	2	2	0	1200	1200	0
4/13/2024 21:52	14802	TREI_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
4/13/2024 21:52	47401	PENS_T1	0	1	1	0	0	0	0.55	0.52	0	0	0	0	0	0
4/13/2024 21:52	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:52	50701	SMEC_T1	0	0	0	0	0	0	-1	-1.01	1	1	0	900	900	0
4/13/2024 21:52	26001	WDAM_T1	0	0	0	0	0	0	-0.7	-0.74	0	0	0	0	0	0
4/13/2024 21:52	26002	WDAM_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
4/13/2024 21:52	67702	WERN_T2	0	0	0	0	0	0	-0.17	-0.13	0	0	0	0	0	0
4/13/2024 21:52	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/13/2024 21:52	56802	BENV_T2	1	1	0	0.1	0.3	0.2	-1.53	-1.59	0	0	0	0	0	0
4/13/2024 21:52	67605	WARW_T1	29	29	0	0.47	0.49	0.02	-1.02	-1.06	0	0	0	0	0	0
4/13/2024 21:52	60801	BUCK_T1	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
4/13/2024 21:52	59101	WALK_T2	0	0	0	0	0	0	-1.52	-1.57	0	0	0	0	0	0
4/13/2024 21:53	45902	AUBU_T1	67	272	205	0.23	0.24	0.01	-0.76	-0.75	0	0	0	0	0	0
4/13/2024 21:53	12006	HATF_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
4/13/2024 21:53	61302	EARL_T1	0	0	0	0	0	0	-0.22	-0.2	1	1	0	1200	1200	0
4/13/2024 21:53	67502	WEWI_T2	0	0	0	0	0	0	-1.62	-1.61	1	1	0	900	900	0
4/13/2024 21:53	22602	KIMB_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
4/13/2024 21:53	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:53	59301	MCAL_T1	0	2	2	0	0.9	0.9	-1.89	-1.91	1	1	0	600	600	0
4/13/2024 21:53	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:53	56802	BENV_T2	1	1	0	0.1	0.3	0.2	-1.59	-1.54	0	0	0	0	0	0
4/13/2024 21:53	58402	MORO_T1	0	0	0	0	0	0	-0.64	-0.66	2	2	0	1500	1500	0
4/13/2024 21:53	59302	MCAL_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
4/13/2024 21:53	45701	LIND_T2	0	0	0	0	0	0	-1.12	-1.14	0	0	0	0	0	0
4/13/2024 21:53	57401	SPAN_T1	1	0	-1	9.1	0	-9.1	-2.15	-2.55	2	2	0	1200	1200	0
4/13/2024 21:53	51401	LYKE_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
4/13/2024 21:53	12601	MACA_T1	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
4/13/2024 21:53	53601	DALM_T2	1	1	0	0.9	1.3	0.4	-0.11	-0.13	0	0	0	0	0	0
4/13/2024 21:53	40603	PIGR_T1	0	0	0	0	0	0	-0.68	-0.71	1	1	0	900	900	0
4/13/2024 21:53	51402	LYKE_T1	20	10	-10	0.22	0.15	-0.07	0	0	0	0	0	0	0	0
4/13/2024 21:53	64101	REFR_T1	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
4/13/2024 21:53	12005	HATF_T1	2	3	1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
4/13/2024 21:53	67803	WLAN_T1	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/13/2024 21:53	45901	AUBU_T1	5	10	5	0.12	0.18	0.06	0	0	0	0	0	0	0	0
4/13/2024 21:53	45702	LIND_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/13/2024 21:53	40601	PIGR_T1	12	84	72	0.12	0.18	0.06	-0.24	-0.21	0	0	0	0	0	0
4/13/2024 21:53	61304	EARL_T1	10	9	-1	0.13	0.17	0.04	0	0	0	0	0	0	0	0
4/13/2024 21:53	45602	WOOL_T1	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
4/13/2024 21:53	56801	BENV_T1	11	13	2	0.94	0.86	-0.08	-0.82	-0.85	1	1	0	600	600	0
4/13/2024 21:53	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:54	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:54	53501	EVIL_T2	3	5	2	0.6	0.62	0.02	0	0	0	0	0	0	0	0
4/13/2024 21:54	63401	HONY_T1	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
4/13/2024 21:54	42902	MIDD_T2	1	1	0	0.7	0.6	-0.1	-0.77	-0.73	0	0	0	0	0	0
4/13/2024 21:54	45602	WOOL_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
4/13/2024 21:54	63404	HONY_T1	67	131	64	0.26	0.38	0.12	0	0	0	0	0	0	0	0
4/13/2024 21:54	67803	WLAN_T1	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
4/13/2024 21:54	53502	EVIL_T2	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
4/13/2024 21:54	63305	GREE_T1	14	16	2	0.25	0.37	0.12	-2.51	-2.51	1	1	0	900	900	0
4/13/2024 21:54	41301	FISH_T1	2	2	0	1.3	1.55	0.25	-0.19	-0.18	0	0	0	0	0	0
4/13/2024 21:54	42201	SHEN_T2	0	0	0	0	0	0	-0.08	-0.07	1	1	0	600	600	0
4/13/2024 21:54	20603	GRWO_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
4/13/2024 21:54	57401	SPAN_T1	1	0	-1	9.1	0	-9.1	-1.07	-1.28	1	1	0	600	600	0
4/13/2024 21:54	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 21:54	63304	GREE_T1	138	391	253	0.15	0.21	0.06	0	0	0	0	0	0	0	0
4/13/2024 21:54	65702	RVIL_T2	0	0	0	0	0	0	-1.17	-1.14	1	1	0	600	600	0
4/13/2024 21:54	46102	MACI_T1	3	32	29	0.13	0.15	0.02	0.29	0.29	0	0	0	0	0	0
4/13/2024 21:54	20401	ASHF_T2	2	4	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
4/13/2024 21:54	61502	EPET_T1	0	1	1	0	0.1	0.1	-1.48	-1.49	0	0	0	0	0	0
4/13/2024 21:54	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:54	44301	BEAV_T2	0	0	0	0	0	0	-0.6	-0.58	1	1	0	600	600	0
4/13/2024 21:54	40504	CRES_T1	0	0	0	0	0	0	-1.34	-1.35	0	0	0	0	0	0
4/13/2024 21:54	64101	REFR_T1	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
4/13/2024 21:54	20403	ASHF_T2	0	0	0	0	0	0	0.28	0.22	0	0	0	0	0	0
4/13/2024 21:55	40902	JESH_T1	0	0	0	0	0	0	-0.91	-0.9	0	0	0	0	0	0
4/13/2024 21:55	54601	SUMM_T2	0	2	2	0	0.15	0.15	-2	-2.01	2	2	0	2100	2100	0
4/13/2024 21:55	20401	ASHF_T2	2	4	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
4/13/2024 21:55	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:55	12701	MACU_T1	0	0	0	0	0	0	0.1	0.05	0	0	0	0	0	0
4/13/2024 21:55	45802	HEGI_T2	47	48	1	2.14	2.45	0.31	0.41	0.4	0	0	0	0	0	0
4/13/2024 21:55	63803	HEMP_T1	65	55	-10	0.18	0.19	0.01	0	0	0	0	0	0	0	0
4/13/2024 21:55	63802	HEMP_T1	253	259	6	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
4/13/2024 21:55	45702	LIND_T2	1	1	0	0.5	0.5	0	-0.57	-0.55	0	0	0	0	0	0
4/13/2024 21:55	63801	HEMP_T1	91	69	-22	0.15	0.16	0.01	-0.1	0.09	0	0	0	0	0	0
4/13/2024 21:55	51201	MTON_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
4/13/2024 21:55	11805	FRAN_T1	0	0	0	0	0	0	-1.71	-1.78	1	1	0	1200	1200	0
4/13/2024 21:55	54001	SDLE_T1	4	4	0	0.75	0.93	0.18	0	0	1	1	0	600	600	0
4/13/2024 21:55	57006	WHHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/13/2024 21:55	65702	RVIL_T2	0	0	0	0	0	0	-1.17	-1.14	1	1	0	600	600	0
4/13/2024 21:55	57004	WHHI_T2	0	0	0	0	0	0	-0.76	-0.79	0	0	0	0	0	0
4/13/2024 21:55	43302	WATS_T2	4	4	0	0.53	0.85	0.32	0	0	0	0	0	0	0	0
4/13/2024 21:55	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
4/13/2024 21:55	45701	LIND_T2	0	0	0	0	0	0	-1.14	-1.14	0	0	0	0	0	0
4/13/2024 21:55	67702	WERN_T2	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
4/13/2024 21:55	43304	WATS_T2	0	0	0	0	0	0	-0.77	-0.79	0	0	0	0	0	0
4/13/2024 21:55	10801	CHHI_T1	0	0	0	0	0	0	-1.01	-1	1	1	0	900	900	0
4/13/2024 21:55	63804	HEMP_T1	5	5	0	1.24	1.24	0	0	0	0	0	0	0	0	0
4/13/2024 21:55	20403	ASHF_T2	0	0	0	0	0	0	0.28	0.22	0	0	0	0	0	0
4/13/2024 21:55	42802	SELI_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
4/13/2024 21:56	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 21:56	51102	CARL_T1	1	25	24	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/13/2024 21:56	64403	LAND_T1	0	0	0	0	0	0	-1.08	-1.06	0	0	0	0	0	0
4/13/2024 21:56	58302	NOTT_T1	0	0	0	0	0	0	-1.24	-1.25	1	1	0	1200	1200	0
4/13/2024 21:56	45501	DERR_T2	0	0	0	0	0	0	-1.61	-1.59	4	4	0	3600	3600	0
4/13/2024 21:56	51107	CARL_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
4/13/2024 21:56	15203	SFAR_T2	180	207	27	0.33	0.41	0.08	0	0	0	0	0	0	0	0
4/13/2024 21:56	65702	RVIL_T2	0	0	0	0	0	0	-1.17	-1.14	1	1	0	600	600	0
4/13/2024 21:56	42902	MIDD_T2	1	1	0	0.7	0.6	-0.1	-2.3	-2.19	0	0	0	0	0	0
4/13/2024 21:56	54001	SDLE_T1	4	4	0	0.75	0.93	0.18	0	0	1	1	0	600	600	0
4/13/2024 21:56	59101	WALK_T2	0	0	0	0	0	0	-0.78	-0.83	0	0	0	0	0	0
4/13/2024 21:56	66502	SMAN_T2	0	0	0	0	0	0	-0.2	-0.3	0	0	0	0	0	0
4/13/2024 21:56	51104	CARL_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/13/2024 21:56	62101	ELAN_T1	1	1	0	1.4	4.2	2.8	0	0	0	0	0	0	0	0
4/13/2024 21:56	61701	ELIZ_T1	1	1	0	4.9	5.4	0.5	0	0	0	0	0	0	0	0
4/13/2024 21:56	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/13/2024 21:56	58402	MORO_T1	0	0	0	0	0	0	-0.64	-0.66	2	2	0	1500	1500	0
4/13/2024 21:56	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:56	44201	POIN_T1	44	211	167	0.13	0.27	0.14	-1.93	-2.02	1	1	0	1200	1200	0
4/13/2024 21:56	58401	MORO_T1	0	0	0	0	0	0	-1.32	-1.31	1	1	0	600	600	0
4/13/2024 21:56	40601	PIGR_T1	12	84	72	0.12	0.18	0.06	-0.24	-0.21	0	0	0	0	0	0
4/13/2024 21:56	61703	ELIZ_T1	0	0	0	0	0	0	-5.18	-5.17	4	4	0	4200	4200	0
4/13/2024 21:56	62102	ELAN_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
4/13/2024 21:56	15204	SFAR_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/13/2024 21:56	56801	BENV_T1	11	13	2	0.94	0.86	-0.08	-0.82	-0.85	1	1	0	600	600	0
4/13/2024 21:56	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:56	45702	LIND_T2	1	1	0	0.5	0.5	0	-0.57	-0.55	0	0	0	0	0	0
4/13/2024 21:56	66703	STRA_T1	0	0	0	0	0	0	-0.4	-0.47	0	0	0	0	0	0
4/13/2024 21:57	45702	LIND_T2	1	1	0	0.5	0.5	0	-0.57	-0.55	0	0	0	0	0	0
4/13/2024 21:57	61801	EELI_T2	0	0	0	0	0	0	-2.34	-2.26	2	2	0	1200	1200	0
4/13/2024 21:57	51201	MTON_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
4/13/2024 21:57	56801	BENV_T1	11	13	2	0.94	0.86	-0.08	-0.82	-0.85	1	1	0	600	600	0
4/13/2024 21:57	42501	ALTA_T2	0	0	0	0	0	0	-0.06	-0.06	1	1	0	600	600	0
4/13/2024 21:57	46203	DANV_T2	81	99	18	0.29	0.36	0.07	-2.45	-2.45	0	0	0	0	0	0
4/13/2024 21:57	44202	POIN_T2	0	0	0	0	0	0	-1.06	-1.06	1	1	0	1200	1200	0
4/13/2024 21:57	49804	UNIV_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
4/13/2024 21:57	46801	HEPB_T2	3	9	6	0.5	0.29	-0.21	0.54	0.55	0	0	0	0	0	0
4/13/2024 21:57	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:57	43202	MVIL_T2	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
4/13/2024 21:57	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:57	66504	SMAN_T2	0	0	0	0	0	0	-0.77	-0.73	0	0	0	0	0	0
4/13/2024 21:57	46803	HEPB_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/13/2024 21:57	41902	REED_T1	0	0	0	0	0	0	0.75	0.8	0	0	0	0	0	0
4/13/2024 21:58	42903	MIDD_T2	0	2	2	0	0.2	0.2	-0.34	-0.33	0	0	0	0	0	0
4/13/2024 21:58	56802	BENV_T2	1	1	0	0.1	0.3	0.2	-3.18	-3.08	0	0	0	0	0	0
4/13/2024 21:58	67804	WLAN_T1	0	0	0	0	0	0	-1.13	-1.14	0	0	0	0	0	0
4/13/2024 21:58	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:58	42201	SHEN_T2	0	0	0	0	0	0	-0.08	-0.07	1	1	0	600	600	0
4/13/2024 21:58	51004	NHAR_T1	6	10	4	1.22	0.97	-0.25	-0.49	-0.5	0	0	0	0	0	0
4/13/2024 21:58	46203	DANV_T2	81	99	18	0.29	0.36	0.07	-2.45	-2.45	0	0	0	0	0	0
4/13/2024 21:58	51003	NHAR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 21:58	43304	WATS_T2	0	0	0	0	0	0	-0.77	-0.79	0	0	0	0	0	0
4/13/2024 21:58	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/13/2024 21:58	42802	SELI_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
4/13/2024 21:58	47401	PENS_T1	0	1	1	0	0	0	1.04	1.05	0	0	0	0	0	0
4/13/2024 21:58	10701	CATA_T2	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
4/13/2024 21:58	59202	THOM_T1	0	10	10	0	0.15	0.15	0	0	0	0	0	0	0	0
4/13/2024 21:58	57401	SPAN_T1	1	0	-1	9.1	0	-9.1	-1.07	-1.28	1	1	0	600	600	0
4/13/2024 21:58	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
4/13/2024 21:58	10702	CATA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/13/2024 21:58	51002	NHAR_T1	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
4/13/2024 21:58	43302	WATS_T2	4	4	0	0.53	0.85	0.32	0	0	0	0	0	0	0	0
4/13/2024 21:58	42902	MIDD_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/13/2024 21:58	45702	LIND_T2	1	1	0	0.5	0.5	0	-0.57	-0.55	0	0	0	0	0	0
4/13/2024 21:59	67402	WAKE_T2	0	0	0	0	0	0	-0.58	-0.56	1	1	0	600	600	0
4/13/2024 21:59	67805	WLAN_T1	0	0	0	0	0	0	-1.65	-1.67	0	0	0	0	0	0
4/13/2024 21:59	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2024 21:59	56801	BENV_T1	11	13	2	0.94	0.86	-0.08	-1.64	-1.7	2	2	0	1200	1200	0
4/13/2024 21:59	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/13/2024 21:59	56802	BENV_T2	1	1	0	0.1	0.3	0.2	-1.59	-1.54	0	0	0	0	0	0
4/13/2024 21:59	47401	PENS_T1	0	1	1	0	0	0	0.52	0.53	0	0	0	0	0	0
4/13/2024 21:59	42902	MIDD_T2	1	1	0	0.7	0.6	-0.1	-0.77	-0.73	0	0	0	0	0	0
4/13/2024 21:59	67703	WERN_T2	0	0	0	0	0	0	-1.08	-1.07	1	1	0	900	900	0
4/13/2024 22:00	67702	WERN_T2	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
4/13/2024 22:00	63302	GREE_T1	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
4/13/2024 22:00	56801	BENV_T1	12	15	3	0.86	0.89	0.03	-0.82	-0.85	1	1	0	600	600	0
4/13/2024 22:00	63305	GREE_T1	14	16	2	0.26	0.37	0.11	0	0	0	0	0	0	0	0
4/13/2024 22:00	63304	GREE_T1	165	386	221	0.15	0.21	0.06	0	0	0	0	0	0	0	0
4/13/2024 22:00	54001	SDLE_T1	4	4	0	0.83	0.78	-0.05	0	0	1	1	0	600	600	0
4/13/2024 22:01	55001	NEWP_T1	4	6	2	0.55	0.67	0.12	-0.3	-0.3	0	0	0	0	0	0
4/13/2024 22:01	16302	ALPA_T2	0	0	0	0	0	0	-0.89	-0.87	0	0	0	0	0	0
4/13/2024 22:03	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
4/13/2024 22:03	59101	WALK_T2	0	0	0	0	0	0	-0.78	-0.83	0	0	0	0	0	0
4/13/2024 22:04	41902	REED_T1	0	0	0	0	0	0	0.75	0.8	0	0	0	0	0	0
4/13/2024 22:09	24204	PROV_T3	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
4/13/2024 22:09	24201	PROV_T3	1	1	0	6.6	6.7	0.1	-1.56	-1.59	1	1	0	1200	1200	0
4/13/2024 22:09	56802	BENV_T2	1	1	0	0.2	0.3	0.1	-1.54	-1.56	0	0	0	0	0	0
4/13/2024 22:10	16301	ALPA_T1	1	1	0	0.3	0.6	0.3	-0.49	-0.51	0	0	0	0	0	0
4/13/2024 22:17	14601	SWHI_T1	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
4/13/2024 22:40	67501	WEWI_T1	0	0	0	0	0	0	-1.43	-1.45	1	1	0	600	600	0
4/13/2024 23:04	67703	WERN_T2	0	0	0	0	0	0	-1.07	-1.09	1	1	0	900	900	0
4/13/2024 23:38	15203	SFAR_T2	0	0	0	0	0	0	-1.64	-1.67	0	0	0	0	0	0
4/13/2024 23:39	15203	SFAR_T2	0	0	0	0	0	0	-1.67	-1.68	0	0	0	0	0	0
4/13/2024 23:40	15203	SFAR_T2	0	0	0	0	0	0	-1.67	-1.68	0	0	0	0	0	0
4/13/2024 23:43	15203	SFAR_T2	0	0	0	0	0	0	-3.33	-3.35	0	0	0	0	0	0
4/14/2024 0:03	15203	SFAR_T2	0	0	0	0	0	0	-1.68	-1.69	0	0	0	0	0	0
4/14/2024 0:19	67702	WERN_T2	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
4/14/2024 1:55	40602	PIGR_T1	1	0	-1	0.2	0	-0.2	-0.28	-0.27	1	1	0	600	600	0
4/14/2024 1:57	40602	PIGR_T1	1	0	-1	0.2	0	-0.2	-0.28	-0.27	1	1	0	600	600	0
4/14/2024 1:58	40602	PIGR_T1	1	0	-1	0.2	0	-0.2	-0.28	-0.27	1	1	0	600	600	0
4/14/2024 3:45	67703	WERN_T2	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
4/14/2024 7:23	67605	WARW_T1	4	4	0	0.38	0.38	0	-0.96	-1.01	0	0	0	0	0	0
4/14/2024 7:27	24104	EHAZ_T1	0	46	46	0	0.17	0.17	-2.35	-2.35	1	1	0	1200	1200	0
4/14/2024 7:27	24105	EHAZ_T1	4	4	0	5.78	5.13	-0.65	0	0	0	0	0	0	0	0
4/14/2024 7:28	67605	WARW_T1	4	4	0	0.38	0.38	0	-0.96	-1.01	0	0	0	0	0	0
4/14/2024 7:30	12006	HATF_T1	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
4/14/2024 7:35	23001	SAJO_T1	0	0	0	0	0	0	-0.98	-0.91	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/14/2024 7:38	45902	AUBU_T1	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
4/14/2024 7:40	45901	AUBU_T1	0	0	0	0	0	0	0.97	0.96	0	0	0	0	0	0
4/14/2024 7:40	24902	WHHA_T1	3	4	1	0.73	0.93	0.2	0	0	0	0	0	0	0	0
4/14/2024 7:40	46203	DANV_T2	121	142	21	0.43	0.35	-0.08	-2.41	-2.44	0	0	0	0	0	0
4/14/2024 7:41	46203	DANV_T2	121	142	21	0.43	0.35	-0.08	-4.83	-4.88	0	0	0	0	0	0
4/14/2024 7:42	53601	DALM_T2	1	1	0	0.6	0.6	0	0.21	0.21	0	0	0	0	0	0
4/14/2024 7:44	45902	AUBU_T1	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
4/14/2024 7:44	41801	GOCI_T2	3	4	1	3.07	1.07	-2	0	0	0	0	0	0	0	0
4/14/2024 7:45	41801	GOCI_T2	3	4	1	1.63	1.07	-0.56	0	0	0	0	0	0	0	0
4/14/2024 7:45	46801	HEPB_T2	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
4/14/2024 7:47	40101	HUNT_T2	0	1	1	0	0	0	-0.75	-0.68	0	0	0	0	0	0
4/14/2024 7:53	45902	AUBU_T1	0	1	1	0	0.3	0.3	-0.58	-0.6	0	0	0	0	0	0
4/14/2024 7:54	45902	AUBU_T1	0	1	1	0	0.3	0.3	-0.58	-0.6	0	0	0	0	0	0
4/14/2024 7:59	45902	AUBU_T1	0	1	1	0	0.3	0.3	-0.58	-0.6	0	0	0	0	0	0
4/14/2024 8:03	43202	MVIL_T2	1	3	2	0.1	0.27	0.17	-0.74	-0.74	0	0	0	0	0	0
4/14/2024 8:03	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 8:06	45902	AUBU_T1	0	1	1	0	0.7	0.7	-0.58	-0.6	0	0	0	0	0	0
4/14/2024 8:08	67605	WARW_T1	4	12	8	0.3	0.46	0.16	-1	-1.02	0	0	0	0	0	0
4/14/2024 8:10	45902	AUBU_T1	0	1	1	0	0.7	0.7	-0.6	-0.6	0	0	0	0	0	0
4/14/2024 8:13	67605	WARW_T1	4	12	8	0.3	0.46	0.16	-1	-1.02	0	0	0	0	0	0
4/14/2024 8:15	45902	AUBU_T1	1	1	0	0.3	0.8	0.5	-0.6	-0.6	0	0	0	0	0	0
4/14/2024 8:15	40101	HUNT_T2	1	0	-1	0.4	0	-0.4	-0.67	-0.72	0	0	0	0	0	0
4/14/2024 8:16	66302	MCGO_T2	0	0	0	0	0	0	-1.4	-1.41	1	1	0	600	600	0
4/14/2024 8:16	66303	MCGO_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/14/2024 8:22	59101	WALK_T2	0	0	0	0	0	0	-0.81	-0.79	0	0	0	0	0	0
4/14/2024 8:22	45902	AUBU_T1	1	1	0	0.3	0.8	0.5	-1.21	-1.21	0	0	0	0	0	0
4/14/2024 8:22	45901	AUBU_T1	0	0	0	0	0	0	0.94	0.94	0	0	0	0	0	0
4/14/2024 8:23	67605	WARW_T1	11	15	4	0.46	0.52	0.06	-1.02	-1.02	0	0	0	0	0	0
4/14/2024 8:26	45902	AUBU_T1	1	1	0	0.3	0.8	0.5	-0.6	-0.63	0	0	0	0	0	0
4/14/2024 8:28	67605	WARW_T1	11	15	4	0.46	0.52	0.06	-1.02	-1.02	0	0	0	0	0	0
4/14/2024 8:31	45902	AUBU_T1	1	4	3	0.7	0.35	-0.35	-0.6	-0.63	0	0	0	0	0	0
4/14/2024 8:32	27603	PIRI_T2	0	0	0	0	0	0	-1.69	-1.49	2	2	0	1800	1800	0
4/14/2024 8:32	61202	REIN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/14/2024 8:36	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 8:36	45902	AUBU_T1	1	4	3	0.7	0.35	-0.35	-0.6	-0.63	0	0	0	0	0	0
4/14/2024 8:37	56802	BENV_T2	0	1	1	0	0.2	0.2	-1.53	-1.53	0	0	0	0	0	0
4/14/2024 8:37	27605	PIRI_T2	0	0	0	0	0	0	-0.64	-0.68	1	1	0	900	900	0
4/14/2024 8:38	67605	WARW_T1	12	17	5	0.43	0.48	0.05	-1.02	-1.02	0	0	0	0	0	0
4/14/2024 8:38	28602	BLYT_T2	0	43	43	0	0.4	0.4	0	0	0	0	0	0	0	0
4/14/2024 8:38	28601	BLYT_T2	0	170	170	0	0.42	0.42	0	0	0	0	0	0	0	0
4/14/2024 8:38	28604	BLYT_T2	12	103	91	0.38	0.6	0.22	0	0	0	0	0	0	0	0
4/14/2024 8:40	56802	BENV_T2	0	1	1	0	0.2	0.2	-1.53	-1.47	0	0	0	0	0	0
4/14/2024 8:41	56802	BENV_T2	0	1	1	0	0.2	0.2	-3.06	-2.94	0	0	0	0	0	0
4/14/2024 8:41	45902	AUBU_T1	1	4	3	0.7	0.35	-0.35	-0.63	-0.62	0	0	0	0	0	0
4/14/2024 8:43	67605	WARW_T1	12	17	5	0.43	0.48	0.05	-1.02	-1.02	0	0	0	0	0	0
4/14/2024 8:46	13503	MCMI_T2	15	24	9	0.19	0.22	0.03	-0.9	-0.9	0	0	0	0	0	0
4/14/2024 8:48	13503	MCMI_T2	15	24	9	0.19	0.22	0.03	-0.9	-0.9	0	0	0	0	0	0
4/14/2024 8:49	13503	MCMI_T2	15	24	9	0.19	0.22	0.03	-0.9	-0.9	0	0	0	0	0	0
4/14/2024 8:50	66202	SISP_T2	0	0	0	0	0	0	-0.93	-0.95	0	0	0	0	0	0
4/14/2024 8:52	45902	AUBU_T1	1	4	3	0.8	0.48	-0.32	-0.63	-0.62	0	0	0	0	0	0
4/14/2024 8:53	67605	WARW_T1	14	18	4	0.54	0.52	-0.02	-1.02	-1.02	0	0	0	0	0	0
4/14/2024 8:55	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 8:56	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 8:57	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 8:57	45902	AUBU_T1	1	4	3	0.8	0.48	-0.32	-0.62	-0.58	0	0	0	0	0	0
4/14/2024 8:58	67605	WARW_T1	14	18	4	0.54	0.52	-0.02	-1.02	-1.02	0	0	0	0	0	0
4/14/2024 9:00	46803	HEPB_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
4/14/2024 9:01	64403	LAND_T1	0	0	0	0	0	0	-2.06	-2	1	1	0	900	900	0
4/14/2024 9:01	46801	HEPB_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
4/14/2024 9:03	45702	LIND_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
4/14/2024 9:03	46801	HEPB_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
4/14/2024 9:03	58402	MORO_T1	0	0	0	0	0	0	-0.74	-0.72	2	2	0	1500	1500	0
4/14/2024 9:03	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.23	1	1	0	600	600	0
4/14/2024 9:04	41902	REED_T1	0	0	0	0	0	0	0.82	0.8	0	0	0	0	0	0
4/14/2024 9:04	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.23	1	1	0	600	600	0
4/14/2024 9:05	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.23	1	1	0	600	600	0
4/14/2024 9:05	46302	ROHR_T1	4	4	0	1.9	1.5	-0.4	0.19	0.2	0	0	0	0	0	0
4/14/2024 9:05	41902	REED_T1	0	0	0	0	0	0	0.82	0.8	0	0	0	0	0	0
4/14/2024 9:05	58402	MORO_T1	0	0	0	0	0	0	-0.74	-0.72	2	2	0	1500	1500	0
4/14/2024 9:06	45902	AUBU_T1	4	4	0	0.35	0.85	0.5	-0.62	-0.58	0	0	0	0	0	0
4/14/2024 9:06	46302	ROHR_T1	4	4	0	1.9	1.5	-0.4	0.19	0.2	0	0	0	0	0	0
4/14/2024 9:07	45902	AUBU_T1	4	4	0	0.35	0.85	0.5	-0.62	-0.58	0	0	0	0	0	0
4/14/2024 9:08	56802	BENV_T2	1	1	0	0.2	0.3	0.1	-1.51	-1.51	0	0	0	0	0	0
4/14/2024 9:08	45902	AUBU_T1	4	4	0	0.35	0.85	0.5	-0.58	-0.63	0	0	0	0	0	0
4/14/2024 9:08	67605	WARW_T1	16	21	5	0.42	0.63	0.21	-1.02	-1.04	0	0	0	0	0	0
4/14/2024 9:08	60101	COCA_T1	1	3	2	0.5	0.4	-0.1	0.21	0.17	0	0	0	0	0	0
4/14/2024 9:11	45902	AUBU_T1	4	4	0	0.35	0.85	0.5	-0.58	-0.63	0	0	0	0	0	0
4/14/2024 9:13	67605	WARW_T1	16	21	5	0.42	0.63	0.21	-1.02	-1.04	0	0	0	0	0	0
4/14/2024 9:13	45902	AUBU_T1	4	4	0	0.35	0.85	0.5	-0.58	-0.63	0	0	0	0	0	0
4/14/2024 9:23	45902	AUBU_T1	3	4	1	0.6	0.95	0.35	-0.63	-0.63	0	0	0	0	0	0
4/14/2024 9:23	67605	WARW_T1	17	22	5	0.53	0.62	0.09	-1.04	-1.02	0	0	0	0	0	0
4/14/2024 9:23	67605	WARW_T1	17	22	5	0.53	0.62	0.09	-1.04	-1.02	0	0	0	0	0	0
4/14/2024 9:23	67605	WARW_T1	17	22	5	0.53	0.62	0.09	-1.04	-1.02	0	0	0	0	0	0
4/14/2024 9:23	67605	WARW_T1	17	22	5	0.53	0.62	0.09	-1.04	-1.02	0	0	0	0	0	0
4/14/2024 9:26	45902	AUBU_T1	3	4	1	0.6	0.95	0.35	-0.63	-0.63	0	0	0	0	0	0
4/14/2024 9:28	67605	WARW_T1	17	22	5	0.53	0.62	0.09	-1.04	-1.02	0	0	0	0	0	0
4/14/2024 9:29	45902	AUBU_T1	3	4	1	0.6	0.95	0.35	-0.63	-0.63	0	0	0	0	0	0
4/14/2024 9:35	42903	MIDD_T2	2	2	0	0.65	1	0.35	0	0	0	0	0	0	0	0
4/14/2024 9:35	42902	MIDD_T2	4	6	2	0.6	0.32	-0.28	-0.74	-0.72	0	0	0	0	0	0
4/14/2024 9:36	57401	SPAN_T1	0	1	1	0	0.3	0.3	-3.88	-3.86	3	3	0	1800	1800	0
4/14/2024 9:38	60801	BUCK_T1	0	0	0	0	0	0	-0.9	-0.87	1	1	0	600	600	0
4/14/2024 9:38	67605	WARW_T1	21	23	2	0.63	0.59	-0.04	-1.02	-1	0	0	0	0	0	0
4/14/2024 9:38	57401	SPAN_T1	0	1	1	0	0.3	0.3	-1.29	-1.26	1	1	0	600	600	0
4/14/2024 9:38	67702	WERN_T2	0	0	0	0	0	0	-0.15	-0.1	0	0	0	0	0	0
4/14/2024 9:39	45902	AUBU_T1	4	6	2	0.85	0.82	-0.03	-0.63	-0.62	0	0	0	0	0	0
4/14/2024 9:43	67605	WARW_T1	21	23	2	0.63	0.59	-0.04	-1.02	-1	0	0	0	0	0	0
4/14/2024 9:44	45902	AUBU_T1	4	6	2	0.85	0.82	-0.03	-0.63	-0.62	0	0	0	0	0	0
4/14/2024 9:53	67605	WARW_T1	22	23	1	0.57	0.59	0.02	-1	-1.13	0	0	0	0	0	0
4/14/2024 9:53	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/14/2024 9:55	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 9:55	24902	WHHA_T1	9	7	-2	0.89	1.18	0.29	0	0	0	0	0	0	0	0
4/14/2024 9:55	45902	AUBU_T1	4	7	3	0.9	0.82	-0.08	-0.62	-0.65	0	0	0	0	0	0
4/14/2024 9:56	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 9:58	67605	WARW_T1	22	23	1	0.57	0.59	0.02	-1	-1.13	0	0	0	0	0	0
4/14/2024 9:58	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/14/2024 9:58	40101	HUNT_T2	0	1	1	0	0.4	0.4	-0.7	-0.72	0	0	0	0	0	0
4/14/2024 9:58	10801	CHHI_T1	0	2	2	0	0.4	0.4	-1	-0.95	1	1	0	900	900	0
4/14/2024 9:58	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
4/14/2024 10:00	16103	BING_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/14/2024 10:00	24102	EHAZ_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/14/2024 10:00	45602	WOOL_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
4/14/2024 10:00	58101	NEKI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/14/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.51	-0.53	2	2	0	1500	1500	0
4/14/2024 10:00	56501	ROCK_T2	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/14/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.35	0.39	0	0	0	0	0	0
4/14/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	0.77	0.75	0	0	0	0	0	0
4/14/2024 10:00	16102	BING_T2	1	2	1	0.3	0.3	0	-0.13	-0.09	0	0	0	0	0	0
4/14/2024 10:00	52001	LING_T1	0	0	0	0	0	0	-1.1	-1.12	0	0	0	0	0	0
4/14/2024 10:00	54001	SOLE_T1	4	3	-1	0.9	0.93	0.03	0	0	1	1	0	600	600	0
4/14/2024 10:00	24105	EHAZ_T1	4	4	0	5.98	5.95	-0.03	-2.04	-2.02	1	1	0	1200	1200	0
4/14/2024 10:00	27603	PIRI_T2	0	0	0	0	0	0	-1.5	-1.46	2	2	0	1800	1800	0
4/14/2024 10:00	14601	SWHI_T1	2	0	-2	0.25	0	-0.25	-1	-0.99	0	0	0	0	0	0
4/14/2024 10:00	50506	MECH_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/14/2024 10:00	41902	REED_T1	0	1	1	0	0	0	1.69	1.73	0	0	0	0	0	0
4/14/2024 10:00	62105	ELAN_T1	2	2	0	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
4/14/2024 10:00	57401	SPAN_T1	0	1	1	0	0	0	-1.26	-1.27	1	1	0	600	600	0
4/14/2024 10:00	59101	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/14/2024 10:00	16101	BING_T2	1	1	0	9.9	9.8	-0.1	0	0	0	0	0	0	0	0
4/14/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
4/14/2024 10:00	57106	SPHI_T2	3	3	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
4/14/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 10:00	59102	WALK_T2	1	1	0	0.2	0.3	0.1	0.56	0.56	0	0	0	0	0	0
4/14/2024 10:00	40504	CRES_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/14/2024 10:00	64305	LINC_T1	1	1	0	0.1	0.2	0.1	-0.71	-0.66	0	0	0	0	0	0
4/14/2024 10:00	14603	SWHI_T1	1	2	1	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
4/14/2024 10:00	56802	BENV_T2	1	2	1	0.2	0.15	-0.05	-1.5	-1.54	0	0	0	0	0	0
4/14/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
4/14/2024 10:00	67605	WARW_T1	23	25	2	0.59	0.78	0.19	0	0	0	0	0	0	0	0
4/14/2024 10:00	65005	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	-0.96	-1	2	2	0	1200	1200	0
4/14/2024 10:00	12807	MICK_T1	0	0	0	0	0	0	-0.81	-0.8	0	0	0	0	0	0
4/14/2024 10:00	56504	ROCK_T2	1	3	2	0.1	0.83	0.73	0	0	0	0	0	0	0	0
4/14/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
4/14/2024 10:00	67603	WARW_T1	0	1	1	0	0.3	0.3	-0.12	-0.09	0	0	0	0	0	0
4/14/2024 10:00	50505	MECH_T1	0	0	0	0	0	0	-0.99	-0.95	0	0	0	0	0	0
4/14/2024 10:00	48302	ORWI_T2	2	2	0	0.45	0.65	0.2	-0.09	-0.06	0	0	0	0	0	0
4/14/2024 10:00	25603	ARRO_T1	1	1	0	0.3	0.2	-0.1	-0.13	-0.14	0	0	0	0	0	0
4/14/2024 10:00	10805	CHHI_T2	1	1	0	7.4	7.5	0.1	-1.23	-1.22	0	0	0	0	0	0
4/14/2024 10:00	51002	NHAR_T1	2	1	-1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/14/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-1.39	-1.4	1	1	0	900	900	0
4/14/2024 10:00	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 10:00	52004	LING_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
4/14/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.5	-0.47	1	1	0	600	600	0
4/14/2024 10:00	44502	HAMI_T2	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
4/14/2024 10:00	27605	PIRI_T2	0	0	0	0	0	0	-0.71	-0.73	1	1	0	900	900	0
4/14/2024 10:00	58003	WCAR_T1	1	1	0	0.6	0.6	0	-0.2	-0.19	1	1	0	600	600	0
4/14/2024 10:00	40502	CRES_T2	12	1	-11	0.2	0.1	-0.1	-0.14	-0.15	0	0	0	0	0	0
4/14/2024 10:00	57104	SPHI_T2	1	0	-1	3.4	0	-3.4	-0.27	-0.24	0	0	0	0	0	0
4/14/2024 10:00	13503	MCMI_T2	6	61	55	0.32	0.27	-0.05	-0.93	-0.9	0	0	0	0	0	0
4/14/2024 10:00	59201	THOM_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
4/14/2024 10:00	45902	AUBU_T1	6	5	-1	0.82	1.38	0.56	-0.62	-0.65	0	0	0	0	0	0
4/14/2024 10:00	14201	EALL_T1	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
4/14/2024 10:00	57101	SPHI_T2	4	6	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/14/2024 10:00	45702	LIND_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
4/14/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-1.2	-1.27	1	1	0	1200	1200	0
4/14/2024 10:00	59202	THOM_T1	24	13	-11	0.29	0.39	0.1	0	0	0	0	0	0	0	0
4/14/2024 10:00	44505	HAMI_T2	0	1	1	0	0.2	0.2	0.3	0.31	0	0	0	0	0	0
4/14/2024 10:00	40101	HUNT_T2	1	1	0	0.2	0.4	0.2	-2.1	-2.16	0	0	0	0	0	0
4/14/2024 10:00	64101	REFR_T1	1	2	1	0.2	0.2	0	-0.73	-0.84	0	0	0	0	0	0
4/14/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
4/14/2024 10:00	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 10:00	12803	MICK_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/14/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
4/14/2024 10:00	51004	NHAR_T1	4	3	-1	1.7	2.13	0.43	0	0	0	0	0	0	0	0
4/14/2024 10:00	50501	MECH_T1	4	4	0	0.78	0.58	-0.2	0	0	0	0	0	0	0	0
4/14/2024 10:00	65702	RVIL_T2	0	0	0	0	0	0	-0.99	-1.03	1	1	0	600	600	0
4/14/2024 10:00	39601	LNFD_T1	0	4	4	0	0	0	0	0	1	1	0	900	900	0
4/14/2024 10:00	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.74	-0.62	2	2	0	1800	1800	0
4/14/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
4/14/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.81	-0.8	1	1	0	1200	1200	0
4/14/2024 10:00	50502	MECH_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/14/2024 10:00	58102	NEKI_T1	1	1	0	1.2	1	-0.2	-1.42	-1.36	1	1	0	1200	1200	0
4/14/2024 10:00	14203	EALL_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/14/2024 10:00	56601	HAMP_T1	0	0	0	0	0	0	-1.91	-1.87	0	0	0	0	0	0
4/14/2024 10:02	60504	NMAN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/14/2024 10:02	60502	NMAN_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
4/14/2024 10:02	60501	NMAN_T2	3	3	0	4.53	4.77	0.24	0	0	0	0	0	0	0	0
4/14/2024 10:06	25402	LAHA_T2	4	4	0	0.38	0.35	-0.03	-0.84	-0.84	0	0	0	0	0	0
4/14/2024 10:06	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 10:06	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 10:07	15103	UPHA_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
4/14/2024 10:07	10801	CHHI_T1	2	2	0	0.4	0.25	-0.15	-1	-0.95	1	1	0	900	900	0
4/14/2024 10:07	64801	MONE_T2	0	1	1	0	0.3	0.3	0.21	0.22	0	0	0	0	0	0
4/14/2024 10:07	40902	JESH_T1	0	0	0	0	0	0	-1.52	-1.55	1	1	0	600	600	0
4/14/2024 10:07	46004	BERW_T2	0	0	0	0	0	0	-0.69	-0.75	0	0	0	0	0	0
4/14/2024 10:07	60501	NMAN_T2	3	3	0	4.53	4.77	0.24	0	0	0	0	0	0	0	0
4/14/2024 10:07	60502	NMAN_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
4/14/2024 10:07	60801	BUCK_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	600	600	0
4/14/2024 10:07	53501	EVIL_T2	5	6	1	0.48	0.52	0.04	-0.79	-0.82	0	0	0	0	0	0
4/14/2024 10:07	40901	JESH_T1	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
4/14/2024 10:07	40101	HUNT_T2	1	1	0	0.2	0.4	0.2	-0.7	-0.72	0	0	0	0	0	0
4/14/2024 10:07	60504	NMAN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/14/2024 10:07	42902	MIDD_T2	6	3	-3	0.32	0.27	-0.05	0	0	0	0	0	0	0	0
4/14/2024 10:07	42903	MIDD_T2	2	3	1	1	0.87	-0.13	-0.13	-0.19	0	0	0	0	0	0
4/14/2024 10:08	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 10:08	16103	BING_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/14/2024 10:08	63306	GREE_T1	0	0	0	0	0	0	-2.15	-2.17	1	1	0	900	900	0
4/14/2024 10:08	45902	AUBU_T1	6	5	-1	0.82	1.38	0.56	-0.65	-0.62	0	0	0	0	0	0
4/14/2024 10:08	67703	WERN_T2	0	0	0	0	0	0	-1.06	-1.01	1	1	0	900	900	0
4/14/2024 10:08	56802	BENV_T2	1	2	1	0.2	0.15	-0.05	-1.54	-1.51	0	0	0	0	0	0
4/14/2024 10:08	47104	MARL_T1	0	0	0	0	0	0	-0.92	-0.94	0	0	0	0	0	0
4/14/2024 10:08	16101	BING_T2	1	1	0	9.9	9.8	-0.1	0.31	0.31	0	0	0	0	0	0
4/14/2024 10:08	16102	BING_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/14/2024 10:08	46001	BERW_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
4/14/2024 10:08	54602	SUMM_T2	0	0	0	0	0	0	-2.5	-2.45	1	1	0	600	600	0
4/14/2024 10:08	60801	BUCK_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	600	600	0
4/14/2024 10:08	10801	CHHI_T1	2	2	0	0.4	0.25	-0.15	-1	-0.95	1	1	0	900	900	0
4/14/2024 10:08	16301	ALPA_T1	1	1	0	0.4	0.5	0.1	-0.47	-0.4	0	0	0	0	0	0
4/14/2024 10:08	22102	EDEL_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
4/14/2024 10:09	45902	AUBU_T1	6	5	-1	0.82	1.38	0.56	-0.65	-0.62	0	0	0	0	0	0
4/14/2024 10:09	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 10:09	56802	BENV_T2	1	2	1	0.2	0.15	-0.05	-1.54	-1.51	0	0	0	0	0	0
4/14/2024 10:09	45602	WOOL_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
4/14/2024 10:09	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 10:10	60101	COCA_T1	4	6	2	0.5	0.47	-0.03	0.16	0.15	0	0	0	0	0	0
4/14/2024 10:10	45902	AUBU_T1	6	5	-1	0.82	1.38	0.56	-1.29	-1.23	0	0	0	0	0	0
4/14/2024 10:10	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 10:10	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 10:10	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.62	-0.61	2	2	0	1800	1800	0
4/14/2024 10:10	10801	CHHI_T1	2	2	0	0.4	0.25	-0.15	-0.95	-0.97	1	1	0	900	900	0
4/14/2024 10:10	60801	BUCK_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	600	600	0
4/14/2024 10:10	56802	BENV_T2	1	2	1	0.2	0.15	-0.05	-1.54	-1.51	0	0	0	0	0	0
4/14/2024 10:11	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.62	-0.61	2	2	0	1800	1800	0
4/14/2024 10:11	56802	BENV_T2	1	2	1	0.2	0.15	-0.05	-3.09	-3.02	0	0	0	0	0	0
4/14/2024 10:11	16103	BING_T2	1	1	0	0.1	0.4	0.3	-0.05	-0.08	1	1	0	600	600	0
4/14/2024 10:11	16102	BING_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/14/2024 10:11	16101	BING_T2	1	1	0	9.9	9.8	-0.1	0	0	0	0	0	0	0	0
4/14/2024 10:12	24902	WHHA_T1	6	52	46	1.05	1.03	-0.02	0	0	0	0	0	0	0	0
4/14/2024 10:12	60101	COCA_T1	4	6	2	0.5	0.47	-0.03	0.16	0.15	0	0	0	0	0	0
4/14/2024 10:13	22602	KIMB_T1	0	1	1	0	0.4	0.4	0.31	0.33	0	0	0	0	0	0
4/14/2024 10:14	46801	HEPB_T2	0	2	2	0	0.1	0.1	0.56	0.57	0	0	0	0	0	0
4/14/2024 10:15	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
4/14/2024 10:15	63803	HEMP_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/14/2024 10:15	63801	HEMP_T1	2	5	3	0.35	0.3	-0.05	0.36	-0.38	0	0	0	0	0	0
4/14/2024 10:16	42903	MIDD_T2	3	3	0	0.77	1.1	0.33	0	0	0	0	0	0	0	0
4/14/2024 10:16	58401	MORO_T1	0	1	1	0	0.2	0.2	-1.25	-1.24	1	1	0	600	600	0
4/14/2024 10:16	20603	GRWO_T2	0	3	3	0	0.3	0.3	0.39	0.44	0	0	0	0	0	0
4/14/2024 10:16	44201	POIN_T1	1	1	0	7.3	0.2	-7.1	-2.05	-2	1	1	0	1200	1200	0
4/14/2024 10:16	46801	HEPB_T2	2	0	-2	0.1	0	-0.1	0.56	0.57	0	0	0	0	0	0
4/14/2024 10:16	43201	MVIL_T2	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
4/14/2024 10:16	43202	MVIL_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
4/14/2024 10:16	42902	MIDD_T2	1	8	7	0.5	0.28	-0.22	-0.73	-0.76	0	0	0	0	0	0
4/14/2024 10:18	42902	MIDD_T2	1	8	7	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
4/14/2024 10:18	42903	MIDD_T2	3	3	0	0.77	1.1	0.33	-0.19	-0.29	0	0	0	0	0	0
4/14/2024 10:18	46801	HEPB_T2	2	0	-2	0.1	0	-0.1	0.56	0.57	0	0	0	0	0	0
4/14/2024 10:18	13503	MCMI_T2	8	61	53	0.43	0.27	-0.16	-1.8	-1.86	0	0	0	0	0	0
4/14/2024 10:19	58401	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/14/2024 10:19	58402	MORO_T1	0	0	0	0	0	0	-0.53	-0.58	2	2	0	1500	1500	0
4/14/2024 10:20	42902	MIDD_T2	1	8	7	0.5	0.28	-0.22	-0.73	-0.76	0	0	0	0	0	0
4/14/2024 10:20	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 10:20	42201	SHEN_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
4/14/2024 10:20	57401	SPAN_T1	0	0	0	0	0	0	-2.55	-2.58	2	2	0	1200	1200	0
4/14/2024 10:20	42903	MIDD_T2	3	3	0	0.77	1.1	0.33	0	0	0	0	0	0	0	0
4/14/2024 10:21	66502	SMAN_T2	0	2	2	0	0.35	0.35	-0.51	-0.54	0	0	0	0	0	0
4/14/2024 10:21	26001	WDAM_T1	0	0	0	0	0	0	-0.7	-0.74	0	0	0	0	0	0
4/14/2024 10:21	66504	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/14/2024 10:21	26002	WDAM_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/14/2024 10:22	16301	ALPA_T1	1	1	0	0.4	0.9	0.5	-0.4	-0.47	0	0	0	0	0	0
4/14/2024 10:23	56801	BENV_T1	11	22	11	0.94	0.85	-0.09	-0.84	-0.82	1	1	0	600	600	0
4/14/2024 10:23	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 10:23	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 10:23	45901	AUBU_T1	1	1	0	0.1	0.1	0	1.91	1.87	0	0	0	0	0	0
4/14/2024 10:23	45902	AUBU_T1	4	5	1	1.05	1.12	0.07	-1.85	-1.73	0	0	0	0	0	0
4/14/2024 10:23	57401	SPAN_T1	0	0	0	0	0	0	-3.87	-3.71	3	3	0	1800	1800	0
4/14/2024 10:23	56803	BENV_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/14/2024 10:24	61304	EARL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/14/2024 10:24	61302	EARL_T1	2	4	2	0.8	0.7	-0.1	-0.21	-0.13	1	1	0	1200	1200	0
4/14/2024 10:24	10602	BLGL_T2	1	1	0	0.6	0.5	-0.1	-0.03	-0.03	0	0	0	0	0	0
4/14/2024 10:24	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 10:25	61304	EARL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/14/2024 10:25	61302	EARL_T1	2	4	2	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/14/2024 10:25	61303	EARL_T1	0	0	0	0	0	0	-0.14	-0.11	0	0	0	0	0	0
4/14/2024 10:26	61304	EARL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/14/2024 10:26	61303	EARL_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
4/14/2024 10:26	48302	ORWI_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
4/14/2024 10:26	61302	EARL_T1	2	4	2	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/14/2024 10:32	45702	LIND_T2	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
4/14/2024 10:32	44201	POIN_T1	0	1	1	0	0.4	0.4	-2	-1.95	1	1	0	1200	1200	0
4/14/2024 10:33	47401	PENS_T1	6	9	3	0.57	0.77	0.2	0.73	0.84	0	0	0	0	0	0
4/14/2024 10:33	65205	PRIN_T1	3	3	0	0.77	0.83	0.06	0	0	0	0	0	0	0	0
4/14/2024 10:33	47403	PENS_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/14/2024 10:33	55001	NEWP_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/14/2024 10:33	47402	PENS_T1	1	2	1	0.7	1	0.3	0	0	0	0	0	0	0	0
4/14/2024 10:33	55002	NEWP_T1	5	4	-1	0.9	0.88	-0.02	-0.42	-0.48	0	0	0	0	0	0
4/14/2024 10:33	43202	MVIL_T2	1	3	2	0.8	0.23	-0.57	-0.73	-0.73	0	0	0	0	0	0
4/14/2024 10:34	47402	PENS_T1	1	2	1	0.7	1	0.3	0	0	0	0	0	0	0	0
4/14/2024 10:34	55001	NEWP_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/14/2024 10:34	55002	NEWP_T1	5	4	-1	0.9	0.88	-0.02	-0.21	-0.24	0	0	0	0	0	0
4/14/2024 10:34	47401	PENS_T1	6	9	3	0.57	0.77	0.2	2.19	2.51	0	0	0	0	0	0
4/14/2024 10:34	47403	PENS_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/14/2024 10:35	47403	PENS_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/14/2024 10:35	47401	PENS_T1	6	9	3	0.57	0.77	0.2	1.46	1.67	0	0	0	0	0	0
4/14/2024 10:35	43202	MVIL_T2	1	3	2	0.8	0.23	-0.57	-0.73	-0.73	0	0	0	0	0	0
4/14/2024 10:35	49803	UNIV_T1	1	2	1	0.5	0.65	0.15	-1.24	-1.23	0	0	0	0	0	0
4/14/2024 10:35	47402	PENS_T1	1	2	1	0.7	1	0.3	0	0	0	0	0	0	0	0
4/14/2024 10:35	49804	UNIV_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/14/2024 10:37	67703	WERN_T2	0	1	1	0	0.4	0.4	-1.01	-1.05	1	1	0	900	900	0
4/14/2024 10:37	67605	WARW_T1	25	29	4	0.78	0.64	-0.14	-1.19	-1.18	0	0	0	0	0	0
4/14/2024 10:37	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/14/2024 10:37	67702	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 10:37	67603	WARW_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/14/2024 10:38	67603	WARW_T1	1	2	1	0.3	0.5	0.2	-0.06	-0.03	0	0	0	0	0	0
4/14/2024 10:38	49804	UNIV_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/14/2024 10:38	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/14/2024 10:38	49803	UNIV_T1	1	2	1	0.5	0.65	0.15	-1.24	-1.23	0	0	0	0	0	0
4/14/2024 10:38	67605	WARW_T1	25	29	4	0.78	0.64	-0.14	0	0	0	0	0	0	0	0
4/14/2024 10:39	67703	WERN_T2	0	1	1	0	0.4	0.4	-1.05	-1	1	1	0	900	900	0
4/14/2024 10:39	67702	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 10:39	59102	WALK_T2	1	2	1	0.1	0.65	0.55	0	0	0	0	0	0	0	0
4/14/2024 10:39	59101	WALK_T2	1	2	1	0.2	0.65	0.45	-1.5	-1.43	0	0	0	0	0	0
4/14/2024 10:40	41602	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/14/2024 10:40	41601	CLEV_T1	1	1	0	0.6	1.1	0.5	0	0	2	2	0	1800	1800	0
4/14/2024 10:41	41602	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/14/2024 10:41	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/14/2024 10:41	67605	WARW_T1	25	29	4	0.78	0.64	-0.14	-1.18	-1.17	0	0	0	0	0	0
4/14/2024 10:41	41601	CLEV_T1	1	1	0	0.6	1.1	0.5	0	0	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/14/2024 10:41	67603	WARW_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/14/2024 10:42	63302	GREE_T1	0	0	0	0	0	0	0.08	0.17	0	0	0	0	0	0
4/14/2024 10:46	64401	LAND_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/14/2024 10:46	42902	MIDD_T2	8	14	6	0.28	0.42	0.14	-1.46	-1.41	0	0	0	0	0	0
4/14/2024 10:46	42903	MIDD_T2	3	2	-1	1.1	1.45	0.35	0	0	0	0	0	0	0	0
4/14/2024 10:46	64403	LAND_T1	0	0	0	0	0	0	-2.07	-2.08	1	1	0	900	900	0
4/14/2024 10:47	47403	PENS_T1	2	3	1	0.35	0.27	-0.08	0	0	0	0	0	0	0	0
4/14/2024 10:47	47401	PENS_T1	6	17	11	0.78	0.5	-0.28	0.84	0.92	0	0	0	0	0	0
4/14/2024 10:47	47402	PENS_T1	2	2	0	0.25	1	0.75	0	0	0	0	0	0	0	0
4/14/2024 10:48	54001	SDLE_T1	4	4	0	0.93	0.65	-0.28	0	0	2	2	0	1200	1200	0
4/14/2024 10:48	44601	SALE_T2	1	0	-1	0.7	0	-0.7	-0.15	-0.18	0	0	0	0	0	0
4/14/2024 10:49	47403	PENS_T1	2	3	1	0.35	0.27	-0.08	0	0	0	0	0	0	0	0
4/14/2024 10:49	42903	MIDD_T2	3	2	-1	1.1	1.45	0.35	0	0	0	0	0	0	0	0
4/14/2024 10:49	44601	SALE_T2	1	0	-1	0.7	0	-0.7	-0.15	-0.18	0	0	0	0	0	0
4/14/2024 10:49	65503	MOJO_T2	2	3	1	0.7	0.77	0.07	-0.47	-0.47	0	0	0	0	0	0
4/14/2024 10:49	60605	NCOL_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/14/2024 10:49	47401	PENS_T1	6	17	11	0.78	0.5	-0.28	0.84	0.92	0	0	0	0	0	0
4/14/2024 10:49	47402	PENS_T1	2	2	0	0.25	1	0.75	0	0	0	0	0	0	0	0
4/14/2024 10:49	42902	MIDD_T2	8	14	6	0.28	0.42	0.14	-0.73	-0.71	0	0	0	0	0	0
4/14/2024 10:50	66504	SMAN_T2	0	1	1	0	0.8	0.8	-1.16	-1.27	0	0	0	0	0	0
4/14/2024 10:50	66502	SMAN_T2	1	2	1	0.4	0.65	0.25	0	0	0	0	0	0	0	0
4/14/2024 10:50	54001	SDLE_T1	4	4	0	0.93	0.65	-0.28	0	0	1	1	0	600	600	0
4/14/2024 10:50	66501	SMAN_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
4/14/2024 10:51	54001	SDLE_T1	4	4	0	0.93	0.65	-0.28	0	0	1	1	0	600	600	0
4/14/2024 10:52	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 10:52	56803	BENV_T1	1	3	2	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/14/2024 10:52	20402	ASHF_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/14/2024 10:52	56801	BENV_T1	19	23	4	0.88	0.83	-0.05	-0.82	-0.82	1	1	0	600	600	0
4/14/2024 10:52	20403	ASHF_T2	2	4	2	0.35	0.3	-0.05	0.2	0.16	0	0	0	0	0	0
4/14/2024 10:54	67605	WARW_T1	25	38	13	0.7	0.66	-0.04	-1.17	-1.16	0	0	0	0	0	0
4/14/2024 10:54	67604	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/14/2024 10:54	67603	WARW_T1	1	4	3	0.6	0.6	0	0	0	0	0	0	0	0	0
4/14/2024 10:57	67603	WARW_T1	1	4	3	0.6	0.6	0	0	0	0	0	0	0	0	0
4/14/2024 10:57	67604	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/14/2024 10:57	41801	GOCI_T2	52	139	87	0.29	0.5	0.21	0	0	0	0	0	0	0	0
4/14/2024 10:57	67605	WARW_T1	25	38	13	0.7	0.66	-0.04	-1.17	-1.16	0	0	0	0	0	0
4/14/2024 10:58	24901	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 10:58	24902	WHHA_T1	30	38	8	0.71	0.92	0.21	0	0	0	0	0	0	0	0
4/14/2024 10:58	41801	GOCI_T2	52	139	87	0.29	0.5	0.21	0	0	0	0	0	0	0	0
4/14/2024 11:00	64202	KINZ_T1	3	4	1	0.2	0.68	0.48	0	0	0	0	0	0	0	0
4/14/2024 11:00	67603	WARW_T1	2	4	2	0.35	0.6	0.25	0	0	0	0	0	0	0	0
4/14/2024 11:00	67604	WARW_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/14/2024 11:00	67605	WARW_T1	28	38	10	0.56	0.67	0.11	-1.17	-1.16	0	0	0	0	0	0
4/14/2024 11:00	41801	GOCI_T2	126	138	12	0.36	0.5	0.14	0	0	0	0	0	0	0	0
4/14/2024 11:00	64204	KINZ_T1	1	2	1	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
4/14/2024 11:00	64203	KINZ_T1	1	1	0	0.6	1.1	0.5	0.01	0	0	0	0	0	0	0
4/14/2024 11:00	64201	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/14/2024 11:01	51004	NHAR_T1	12	8	-4	0.78	0.95	0.17	-0.45	-0.45	0	0	0	0	0	0
4/14/2024 11:01	51002	NHAR_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/14/2024 11:02	42902	MIDD_T2	12	14	2	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
4/14/2024 11:02	42903	MIDD_T2	2	2	0	1.45	1.4	-0.05	-0.23	-0.1	0	0	0	0	0	0
4/14/2024 11:03	45901	AUBU_T1	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
4/14/2024 11:03	45902	AUBU_T1	5	8	3	0.86	0.85	-0.01	-0.59	-0.59	0	0	0	0	0	0
4/14/2024 11:04	44502	HAMI_T2	2	1	-1	1.2	2.3	1.1	-0.98	-0.98	0	0	0	0	0	0
4/14/2024 11:04	65901	SAKR_T2	2	2	0	4.85	4.95	0.1	-1.39	-1.3	1	1	0	900	900	0
4/14/2024 11:04	44505	HAMI_T2	3	1	-2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/14/2024 11:04	40302	TAMA_T3	0	6	6	0	0.22	0.22	0.26	0.26	0	0	0	0	0	0
4/14/2024 11:04	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 11:05	67203	TEHI_T1	0	1	1	0	0.2	0.2	0.82	0.86	1	0	-1	900	0	-900
4/14/2024 11:05	64101	REFR_T1	1	4	3	0.4	0.23	-0.17	-0.84	-0.81	0	0	0	0	0	0
4/14/2024 11:05	67201	TEHI_T1	116	119	3	1.46	1.59	0.13	0	0	0	0	0	0	0	0
4/14/2024 11:07	61101	BERK_T5	1	2	1	0.2	0.3	0.1	-1.81	-1.81	0	0	0	0	0	0
4/14/2024 11:09	16302	ALPA_T2	1	1	0	0.1	0.2	0.1	-0.87	-0.86	0	0	0	0	0	0
4/14/2024 11:09	67603	WARW_T1	2	4	2	0.35	0.6	0.25	0	0	0	0	0	0	0	0
4/14/2024 11:09	67605	WARW_T1	28	38	10	0.56	0.67	0.11	-1.16	-1.15	0	0	0	0	0	0
4/14/2024 11:09	67604	WARW_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/14/2024 11:09	67702	WERN_T2	1	1	0	0.1	0.6	0.5	-0.11	-0.05	0	0	0	0	0	0
4/14/2024 11:09	45901	AUBU_T1	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
4/14/2024 11:09	45902	AUBU_T1	5	8	3	0.86	0.85	-0.01	-0.59	-0.59	0	0	0	0	0	0
4/14/2024 11:09	67703	WERN_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/14/2024 11:10	20403	ASHF_T2	1	4	3	0.3	0.3	0	0	0	0	0	0	0	0	0
4/14/2024 11:10	57006	WHHI_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/14/2024 11:10	20402	ASHF_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/14/2024 11:10	56802	BENV_T2	3	5	2	0.7	0.5	-0.2	-1.52	-1.46	0	0	0	0	0	0
4/14/2024 11:10	67702	WERN_T2	1	1	0	0.1	0.6	0.5	-0.11	-0.05	0	0	0	0	0	0
4/14/2024 11:10	57002	WHHI_T2	0	0	0	0	0	0	-1.48	-1.46	1	1	0	1200	1200	0
4/14/2024 11:10	61801	EELI_T2	9	8	-1	0.36	0.3	-0.06	-2	-2.04	2	2	0	1200	1200	0
4/14/2024 11:10	20401	ASHF_T2	0	2	2	0	0.1	0.1	-0.4	-0.4	0	0	0	0	0	0
4/14/2024 11:10	61101	BERK_T5	1	2	1	0.2	0.3	0.1	-1.81	-1.8	0	0	0	0	0	0
4/14/2024 11:10	53501	EVIL_T2	7	9	2	0.49	0.47	-0.02	-0.78	-0.81	0	0	0	0	0	0
4/14/2024 11:10	67703	WERN_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/14/2024 11:11	20402	ASHF_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/14/2024 11:11	67703	WERN_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/14/2024 11:11	67702	WERN_T2	1	1	0	0.1	0.6	0.5	-0.11	-0.05	0	0	0	0	0	0
4/14/2024 11:11	20403	ASHF_T2	1	4	3	0.3	0.3	0	0.09	0.11	0	0	0	0	0	0
4/14/2024 11:11	56802	BENV_T2	3	5	2	0.7	0.5	-0.2	-1.52	-1.46	0	0	0	0	0	0
4/14/2024 11:11	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 11:12	56802	BENV_T2	3	5	2	0.7	0.5	-0.2	-1.52	-1.46	0	0	0	0	0	0
4/14/2024 11:12	67703	WERN_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/14/2024 11:12	67702	WERN_T2	1	1	0	0.1	0.6	0.5	-0.11	-0.05	0	0	0	0	0	0
4/14/2024 11:14	67605	WARW_T1	28	38	10	0.56	0.67	0.11	-1.16	-1.15	0	0	0	0	0	0
4/14/2024 11:14	67603	WARW_T1	2	4	2	0.35	0.6	0.25	0	0	0	0	0	0	0	0
4/14/2024 11:14	67604	WARW_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/14/2024 11:14	45902	AUBU_T1	5	8	3	0.86	0.85	-0.01	-0.59	-0.59	0	0	0	0	0	0
4/14/2024 11:14	45901	AUBU_T1	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
4/14/2024 11:15	53501	EVIL_T2	9	7	-2	0.47	0.37	-0.1	-0.78	-0.81	0	0	0	0	0	0
4/14/2024 11:15	12701	MACU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 11:17	67703	WERN_T2	1	1	0	0.6	0.5	-0.1	-1.02	-1.01	1	1	0	900	900	0
4/14/2024 11:17	67702	WERN_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/14/2024 11:18	63201	MGTN_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/14/2024 11:18	63202	MGTN_T2	1	0	-1	0.3	0	-0.3	-0.44	-0.46	1	1	0	900	900	0
4/14/2024 11:19	66701	STRA_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/14/2024 11:19	41902	REED_T1	0	0	0	0	0	0	1.65	1.64	0	0	0	0	0	0
4/14/2024 11:19	66703	STRA_T1	0	1	1	0	0.2	0.2	-0.4	-0.42	0	0	0	0	0	0
4/14/2024 11:20	14603	SWHI_T1	7	6	-1	0.67	0.48	-0.19	-3.48	-3.44	4	4	0	2400	2400	0
4/14/2024 11:20	14602	SWHI_T1	1	2	1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
4/14/2024 11:20	49804	UNIV_T1	0	0	0	0	0	0	0.41	0.45	0	0	0	0	0	0
4/14/2024 11:20	67702	WERN_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/14/2024 11:20	14601	SWHI_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/14/2024 11:20	67703	WERN_T2	1	1	0	0.6	0.5	-0.1	-1.02	-1.01	1	1	0	900	900	0
4/14/2024 11:21	66703	STRA_T1	0	1	1	0	0.2	0.2	-0.4	-0.42	0	0	0	0	0	0
4/14/2024 11:21	66701	STRA_T1	1	1	0	0.1	0.3	0.2	-0.43	-0.4	1	1	0	600	600	0
4/14/2024 11:22	66703	STRA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/14/2024 11:22	66701	STRA_T1	1	1	0	0.1	0.3	0.2	-0.43	-0.4	1	1	0	600	600	0
4/14/2024 11:24	45902	AUBU_T1	7	11	4	0.9	0.61	-0.29	-0.59	-0.6	0	0	0	0	0	0
4/14/2024 11:24	67703	WERN_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/14/2024 11:24	10801	CHHI_T1	4	3	-1	0.65	0.47	-0.18	-0.97	-1	1	1	0	900	900	0
4/14/2024 11:24	67702	WERN_T2	1	1	0	0.6	0.6	0	-0.05	-0.06	0	0	0	0	0	0
4/14/2024 11:24	45901	AUBU_T1	2	2	0	0.2	0.55	0.35	0	0	0	0	0	0	0	0
4/14/2024 11:25	67603	WARW_T1	4	3	-1	0.6	0.57	-0.03	-0.1	-0.06	0	0	0	0	0	0
4/14/2024 11:25	67604	WARW_T1	1	1	0	0.4	0.2	-0.2	-0.14	-0.08	0	0	0	0	0	0
4/14/2024 11:25	67605	WARW_T1	37	40	3	0.66	0.63	-0.03	-1.15	-1.16	0	0	0	0	0	0
4/14/2024 11:27	12003	HATF_T1	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
4/14/2024 11:27	17401	FOHI_T1	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
4/14/2024 11:27	67702	WERN_T2	1	1	0	0.6	0.6	0	-0.05	-0.06	0	0	0	0	0	0
4/14/2024 11:27	12002	HATF_T1	1	2	1	0.1	0.25	0.15	-0.29	-0.27	0	0	0	0	0	0
4/14/2024 11:27	12007	HATF_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/14/2024 11:27	67703	WERN_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/14/2024 11:27	12006	HATF_T1	1	2	1	0.9	1	0.1	0	0	0	0	0	0	0	0
4/14/2024 11:29	60901	DONG_T2	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
4/14/2024 11:29	60904	DONG_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/14/2024 11:29	60902	DONG_T2	0	0	0	0	0	0	0.91	0.93	0	0	0	0	0	0
4/14/2024 11:29	45901	AUBU_T1	2	2	0	0.2	0.55	0.35	0	0	0	0	0	0	0	0
4/14/2024 11:29	67603	WARW_T1	4	3	-1	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
4/14/2024 11:29	45902	AUBU_T1	7	11	4	0.9	0.61	-0.29	-0.59	-0.6	0	0	0	0	0	0
4/14/2024 11:29	67605	WARW_T1	37	40	3	0.66	0.63	-0.03	-1.15	-1.16	0	0	0	0	0	0
4/14/2024 11:29	67604	WARW_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/14/2024 11:31	53902	HALI_T2	3	3	0	2.17	2.03	-0.14	-0.28	-0.32	0	0	0	0	0	0
4/14/2024 11:31	53903	HALI_T2	4	6	2	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
4/14/2024 11:31	64203	KINZ_T1	1	2	1	1.1	0.65	-0.45	0	0	0	0	0	0	0	0
4/14/2024 11:31	64201	KINZ_T1	1	1	0	0.5	0	-0.65	-0.63	2	2	0	0	1200	1200	0
4/14/2024 11:31	64204	KINZ_T1	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
4/14/2024 11:31	64202	KINZ_T1	4	4	0	0.68	0.75	0.07	0	0	0	0	0	0	0	0
4/14/2024 11:31	53901	HALI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/14/2024 11:33	65205	PRIN_T1	4	4	0	0.7	0.73	0.03	0	0	0	0	0	0	0	0
4/14/2024 11:33	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 11:35	66203	SISP_T2	0	1	1	0	0.5	0.5	-1.53	-1.46	1	1	0	1200	1200	0
4/14/2024 11:35	66201	SISP_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/14/2024 11:36	67201	TEHI_T1	117	113	-4	1.33	1.39	0.06	-0.09	-0.08	0	0	0	0	0	0
4/14/2024 11:36	67203	TEHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/14/2024 11:38	44302	BEAV_T2	3	0	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
4/14/2024 11:38	44301	BEAV_T2	5	0	-5	0.22	0	-0.22	-0.54	-0.56	1	1	0	600	600	0
4/14/2024 11:40	45902	AUBU_T1	7	11	4	0.8	0.58	-0.22	-0.6	-0.59	0	0	0	0	0	0
4/14/2024 11:40	15001	BLMO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/14/2024 11:40	45901	AUBU_T1	2	2	0	0.55	0.35	-0.2	0	0	0	0	0	0	0	0
4/14/2024 11:41	53501	EVIL_T2	7	9	2	0.33	0.43	0.1	-0.8	-0.8	0	0	0	0	0	0
4/14/2024 11:43	45902	AUBU_T1	7	11	4	0.8	0.58	-0.22	-0.6	-0.59	0	0	0	0	0	0
4/14/2024 11:43	45901	AUBU_T1	2	2	0	0.55	0.35	-0.2	0	0	0	0	0	0	0	0
4/14/2024 11:44	64305	LINC_T1	1	1	0	0.3	0.5	0.2	-0.57	-0.56	0	0	0	0	0	0
4/14/2024 11:44	64303	LINC_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/14/2024 11:44	45801	HEGI_T1	0	0	0	0	0	0	-0.49	-0.53	1	1	0	900	900	0
4/14/2024 11:45	45901	AUBU_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/14/2024 11:45	67603	WARW_T1	3	3	0	0.57	0.63	0.06	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/14/2024 11:45	67605	WARW_T1	39	27	-12	0.61	0.59	-0.02	-1.16	-1.13	0	0	0	0	0	0
4/14/2024 11:45	67604	WARW_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/14/2024 11:45	45902	AUBU_T1	11	7	-4	0.55	0.44	-0.11	-0.6	-0.59	0	0	0	0	0	0
4/14/2024 11:48	46802	HEPB_T1	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
4/14/2024 11:48	46803	HEPB_T2	0	2	2	0	0.3	0.3	0.41	0.42	0	0	0	0	0	0
4/14/2024 11:48	46801	HEPB_T2	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
4/14/2024 11:49	66504	SMAN_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
4/14/2024 11:49	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 11:49	66505	SMAN_T2	0	0	0	0	0	0	0.53	0.41	2	2	0	1100	1100	0
4/14/2024 11:49	66501	SMAN_T2	2	1	-1	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
4/14/2024 11:50	67605	WARW_T1	39	27	-12	0.61	0.59	-0.02	-1.16	-1.13	0	0	0	0	0	0
4/14/2024 11:50	67603	WARW_T1	3	3	0	0.57	0.63	0.06	0	0	0	0	0	0	0	0
4/14/2024 11:50	67604	WARW_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/14/2024 11:53	57006	WHHI_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
4/14/2024 11:53	57004	WHHI_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
4/14/2024 11:54	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 11:55	67702	WERN_T2	1	1	0	0.6	0.8	0.2	-0.03	-0.08	0	0	0	0	0	0
4/14/2024 11:55	67703	WERN_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/14/2024 11:56	67602	WARW_T2	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
4/14/2024 11:56	45902	AUBU_T1	11	7	-4	0.55	0.44	-0.11	-0.59	-0.63	0	0	0	0	0	0
4/14/2024 11:56	45901	AUBU_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/14/2024 11:58	64404	LAND_T2	1	5	4	0.2	0.24	0.04	0	0	0	0	0	0	0	0
4/14/2024 11:58	64402	LAND_T2	0	3	3	0	0.27	0.27	-0.58	-0.59	1	1	0	600	600	0
4/14/2024 11:58	12006	HATF_T1	2	2	0	1	1.05	0.05	0	0	0	0	0	0	0	0
4/14/2024 11:58	12001	HATF_T1	0	0	0	0	0	0	1.37	1.55	0	0	0	0	0	0
4/14/2024 11:58	12007	HATF_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/14/2024 11:58	12003	HATF_T1	2	2	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/14/2024 11:58	12002	HATF_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
4/14/2024 12:00	12006	HATF_T1	2	2	0	1.05	0.9	-0.15	0	0	0	0	0	0	0	0
4/14/2024 12:00	67603	WARW_T1	3	2	-1	0.57	0.85	0.28	0	0	0	0	0	0	0	0
4/14/2024 12:00	12003	HATF_T1	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/14/2024 12:00	12001	HATF_T1	0	0	0	0	0	0	1.37	1.55	0	0	0	0	0	0
4/14/2024 12:00	12002	HATF_T1	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/14/2024 12:00	11804	FRAN_T1	4	4	0	0.9	0.78	-0.12	0	0	0	0	0	0	0	0
4/14/2024 12:00	67605	WARW_T1	27	26	-1	0.55	0.66	0.11	-1.13	-1.14	0	0	0	0	0	0
4/14/2024 12:00	12007	HATF_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/14/2024 12:00	67604	WARW_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/14/2024 12:00	11805	FRAN_T1	1	2	1	1.2	0.5	-0.7	-1.64	-1.6	1	1	0	1200	1200	0
4/14/2024 12:01	45902	AUBU_T1	7	6	-1	0.44	0.57	0.13	-0.59	-0.63	0	0	0	0	0	0
4/14/2024 12:01	45901	AUBU_T1	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
4/14/2024 12:01	41202	KENM_T2	0	1	1	0	0.2	0.2	-0.55	-0.55	0	0	0	0	0	0
4/14/2024 12:03	64203	KINZ_T1	1	3	2	0.3	0.53	0.23	0	0	0	0	0	0	0	0
4/14/2024 12:03	64202	KINZ_T1	3	3	0	0.67	0.77	0.1	0	0	0	0	0	0	0	0
4/14/2024 12:03	64204	KINZ_T1	1	3	2	1.5	0.57	-0.93	0	0	0	0	0	0	0	0
4/14/2024 12:03	64201	KINZ_T1	2	1	-1	0.65	0.5	-0.15	-0.66	-0.55	2	2	0	1200	1200	0
4/14/2024 12:04	67604	WARW_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/14/2024 12:04	67603	WARW_T1	3	2	-1	0.57	0.85	0.28	0	0	0	0	0	0	0	0
4/14/2024 12:04	67605	WARW_T1	27	26	-1	0.55	0.66	0.11	-1.13	-1.14	0	0	0	0	0	0
4/14/2024 12:05	66505	SMAN_T2	0	0	0	0	0	0	0.41	0.43	2	2	0	1100	1100	0
4/14/2024 12:05	66504	SMAN_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/14/2024 12:05	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/14/2024 12:05	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/14/2024 12:08	60801	BUCK_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/14/2024 12:08	60803	BUCK_T1	0	0	0	0	0	0	-0.56	-0.54	1	1	0	600	600	0
4/14/2024 12:11	45902	AUBU_T1	7	6	-1	0.44	0.57	0.13	-0.63	-0.58	0	0	0	0	0	0
4/14/2024 12:11	45901	AUBU_T1	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
4/14/2024 12:12	60801	BUCK_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/14/2024 12:12	60803	BUCK_T1	0	0	0	0	0	0	-0.56	-0.54	1	1	0	600	600	0
4/14/2024 12:13	40101	HUNT_T2	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
4/14/2024 12:15	64704	LITI_T1	0	0	0	0	0	0	-0.13	-0.09	1	1	0	600	600	0
4/14/2024 12:16	45701	LIND_T2	0	0	0	0	0	0	-1.13	-1.14	0	0	0	0	0	0
4/14/2024 12:16	45702	LIND_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/14/2024 12:17	45902	AUBU_T1	4	12	8	0.33	0.51	0.18	-0.63	-0.58	0	0	0	0	0	0
4/14/2024 12:17	45901	AUBU_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/14/2024 12:18	45702	LIND_T2	1	1	0	0.2	0.2	0	-0.57	-0.58	0	0	0	0	0	0
4/14/2024 12:18	13501	MCMI_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
4/14/2024 12:19	65601	QVIL_T2	0	0	0	0	0	0	-1.05	-1.13	1	1	0	900	900	0
4/14/2024 12:21	65603	QVIL_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
4/14/2024 12:23	66701	STRA_T1	1	1	0	0.2	0.1	-0.1	-0.74	-0.76	2	2	0	1200	1200	0
4/14/2024 12:26	41801	GOCI_T2	2	137	135	0.15	0.43	0.28	0	0	0	0	0	0	0	0
4/14/2024 12:27	45901	AUBU_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/14/2024 12:27	45902	AUBU_T1	4	12	8	0.33	0.51	0.18	-0.58	-0.58	0	0	0	0	0	0
4/14/2024 12:29	41502	FAIR_T2	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
4/14/2024 12:30	23404	HONE_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/14/2024 12:30	67605	WARW_T1	25	27	2	0.65	0.66	0.01	-1.15	-1.13	0	0	0	0	0	0
4/14/2024 12:30	67603	WARW_T1	2	1	-1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/14/2024 12:30	41205	KENM_T2	0	0	0	0	0	0	-0.86	-0.86	1	1	0	600	600	0
4/14/2024 12:30	23403	HONE_T1	0	2	2	0	0.25	0.25	-0.78	-0.73	0	0	0	0	0	0
4/14/2024 12:30	41202	KENM_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/14/2024 12:30	47001	HUGH_T2	0	0	0	0	0	0	-0.87	-0.93	0	0	0	0	0	0
4/14/2024 12:32	45901	AUBU_T1	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
4/14/2024 12:32	47001	HUGH_T2	0	0	0	0	0	0	-0.87	-0.93	0	0	0	0	0	0
4/14/2024 12:32	45902	AUBU_T1	5	17	12	0.64	0.58	-0.06	-0.58	-0.58	0	0	0	0	0	0
4/14/2024 12:33	65604	QVIL_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
4/14/2024 12:33	40603	PIGR_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/14/2024 12:33	40602	PIGR_T1	1	3	2	0.5	0.53	0.03	-2.43	-2.41	3	3	0	1800	1800	0
4/14/2024 12:33	40601	PIGR_T1	53	88	35	0.22	0.26	0.04	-0.17	-0.16	0	0	0	0	0	0
4/14/2024 12:34	67605	WARW_T1	25	27	2	0.65	0.66	0.01	-1.15	-1.13	0	0	0	0	0	0
4/14/2024 12:34	65604	QVIL_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
4/14/2024 12:34	67603	WARW_T1	2	1	-1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/14/2024 12:35	40603	PIGR_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/14/2024 12:35	40601	PIGR_T1	53	88	35	0.22	0.26	0.04	-0.17	-0.16	0	0	0	0	0	0
4/14/2024 12:35	40602	PIGR_T1	1	3	2	0.5	0.53	0.03	0	0	0	0	0	0	0	0
4/14/2024 12:37	42802	SELI_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
4/14/2024 12:38	67401	WAKE_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/14/2024 12:38	56801	BENV_T1	8	17	9	0.79	0.91	0.12	-2.31	-2.4	3	3	0	1800	1800	0
4/14/2024 12:38	45901	AUBU_T1	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
4/14/2024 12:38	56803	BENV_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/14/2024 12:38	67402	WAKE_T2	0	0	0	0	0	0	-0.46	-0.49	1	1	0	600	600	0
4/14/2024 12:38	45902	AUBU_T1	5	17	12	0.64	0.58	-0.06	-0.58	-0.56	0	0	0	0	0	0
4/14/2024 12:39	10901	COOP_T2	0	0	0	0	0	0	0.97	0.83	0	0	0	0	0	0
4/14/2024 12:39	56803	BENV_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/14/2024 12:39	10903	COOP_T2	1	1	0	0.8	1.7	0.9	0	0	0	0	0	0	0	0
4/14/2024 12:39	56801	BENV_T1	8	17	9	0.79	0.91	0.12	-1.54	-1.6	2	2	0	1200	1200	0
4/14/2024 12:40	56803	BENV_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/14/2024 12:40	56801	BENV_T1	8	17	9	0.79	0.91	0.12	-0.77	-0.8	1	1	0	600	600	0
4/14/2024 12:41	56803	BENV_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/14/2024 12:41	56801	BENV_T1	8	17	9	0.79	0.91	0.12	-0.77	-0.8	1	1	0	600	600	0
4/14/2024 12:42	24104	EHAZ_T1	0	0	0	0	0	0	-2.29	-2.28	1	1	0	1200	1200	0
4/14/2024 12:42	24105	EHAZ_T1	4	4	0	6.28	6.2	-0.08	0	0	0	0	0	0	0	0
4/14/2024 12:42	56803	BENV_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/14/2024 12:42	41801	GOCI_T2	29	146	117	0.22	0.48	0.26	0	0	0	0	0	0	0	0
4/14/2024 12:42	24101	EHAZ_T1	0	1	1	6.28	6.2	-0.08	0	0	0	0	0	0	0	0
4/14/2024 12:42	56801	BENV_T1	8	17	9	0.79	0.91	0.12	-1.54	-1.6	2	2	0	1200	1200	0
4/14/2024 12:42	24102	EHAZ_T1	1	3	2	0.1	0.55	0.45	0	0	0	0	0	0	0	0
4/14/2024 12:43	45902	AUBU_T1	5	17	12	0.64	0.58	-0.06	-0.58	-0.56	0	0	0	0	0	0
4/14/2024 12:43	21206	ECAR_T2	1	1	0	6.9	6.7	-0.2	1.12	1.21	0	0	0	0	0	0
4/14/2024 12:43	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 12:43	45901	AUBU_T1	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
4/14/2024 12:44	56803	BENV_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/14/2024 12:44	56801	BENV_T1	8	17	9	0.79	0.91	0.12	-0.77	-0.8	1	1	0	600	600	0
4/14/2024 12:44	47101	MARL_T1	1	1	0	0.1	0.4	0.3	-0.21	-0.31	0	0	0	0	0	0
4/14/2024 12:44	47104	MARL_T1	2	2	0	0.15	0.65	0.5	0	0	0	0	0	0	0	0
4/14/2024 12:45	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 12:45	67605	WARW_T1	26	31	5	0.66	0.66	0	-1.13	-1.16	0	0	0	0	0	0
4/14/2024 12:45	67603	WARW_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/14/2024 12:45	63602	LETO_T1	3	110	107	0.47	0.18	-0.29	-0.85	-0.86	0	0	0	0	0	0
4/14/2024 12:47	21206	ECAR_T2	1	1	0	6.5	7.4	0.9	1.12	1.21	0	0	0	0	0	0
4/14/2024 12:47	52004	LING_T2	1	1	0	0.5	0.5	0	-0.18	-0.19	0	0	0	0	0	0
4/14/2024 12:47	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 12:48	13601	RICH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/14/2024 12:48	13606	RICH_T2	2	3	1	3.75	3.95	0.2	0.55	0.55	0	0	0	0	0	0
4/14/2024 12:49	52001	LING_T1	0	0	0	0	0	0	-1.13	-1.11	0	0	0	0	0	0
4/14/2024 12:50	14802	TREI_T2	0	4	4	0	0.48	0.48	0.29	0.36	0	0	0	0	0	0
4/14/2024 12:50	67603	WARW_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/14/2024 12:50	67605	WARW_T1	26	31	5	0.66	0.66	0	-1.13	-1.16	0	0	0	0	0	0
4/14/2024 12:51	26001	WDAM_T1	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
4/14/2024 12:51	57401	SPAN_T1	3	3	0	3.47	1.2	-2.27	0	0	0	0	0	0	0	0
4/14/2024 12:51	57403	SPAN_T1	1	1	0	0.2	0.3	0.1	-0.07	-0.08	0	0	0	0	0	0
4/14/2024 12:51	26002	WDAM_T1	1	3	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/14/2024 12:52	56801	BENV_T1	17	17	0	0.89	0.91	0.02	-0.77	-0.8	1	1	0	600	600	0
4/14/2024 12:52	56803	BENV_T1	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/14/2024 12:52	42701	AUGU_T1	2	2	0	0.15	0.25	0.1	0	0	2	2	0	1800	1800	0
4/14/2024 12:53	13601	RICH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/14/2024 12:53	13902	SEID_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
4/14/2024 12:53	13905	SEID_T1	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
4/14/2024 12:53	13606	RICH_T2	2	3	1	3.75	3.95	0.2	0.55	0.55	0	0	0	0	0	0
4/14/2024 12:53	45901	AUBU_T1	2	3	1	0.25	0.37	0.12	0	0	0	0	0	0	0	0
4/14/2024 12:53	42701	AUGU_T1	2	2	0	0.15	0.25	0.1	0	0	2	2	0	1800	1800	0
4/14/2024 12:53	45902	AUBU_T1	12	19	7	0.5	0.59	0.09	-0.56	-0.6	0	0	0	0	0	0
4/14/2024 12:53	66701	STRA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/14/2024 12:53	13901	SEID_T1	0	0	0	0	0	0	-0.89	-0.87	1	1	0	1200	1200	0
4/14/2024 12:53	66702	STRA_T1	0	0	0	0	0	0	-0.11	-0.07	2	2	0	1500	1500	0
4/14/2024 12:54	42701	AUGU_T1	2	2	0	0.15	0.25	0.1	0	0	2	2	0	1800	1800	0
4/14/2024 12:55	57001	WHHI_T2	0	0	0	0	0	0	-0.32	-0.35	1	1	0	900	900	0
4/14/2024 12:56	46004	BERW_T2	0	0	0	0	0	0	-0.79	-0.86	0	0	0	0	0	0
4/14/2024 12:57	56803	BENV_T1	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/14/2024 12:57	56801	BENV_T1	17	17	0	0.89	0.91	0.02	-0.8	-0.78	1	1	0	600	600	0
4/14/2024 12:59	53901	HALI_T2	2	4	2	0.3	0.28	-0.02	-1.03	-1.07	0	0	0	0	0	0
4/14/2024 12:59	53903	HALI_T2	6	10	4	0.53	0.6	0.07	0	0	0	0	0	0	0	0
4/14/2024 12:59	45901	AUBU_T1	2	3	1	0.25	0.37	0.12	0	0	0	0	0	0	0	0
4/14/2024 12:59	45902	AUBU_T1	12	19	7	0.5	0.59	0.09	-0.56	-0.6	0	0	0	0	0	0
4/14/2024 12:59	53902	HALI_T2	3	4	1	2.1	1.73	-0.37	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/14/2024 13:01	47002	HUGH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/14/2024 13:01	12803	MICK_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/14/2024 13:01	47001	HUGH_T2	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
4/14/2024 13:01	12801	MICK_T1	0	1	1	0	0	0	-0.3	-0.27	1	1	0	600	600	0
4/14/2024 13:01	12807	MICK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/14/2024 13:03	12502	MITR_T2	1	1	0	6.5	6.2	-0.3	0	0	0	0	0	0	0	0
4/14/2024 13:03	12501	MITR_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/14/2024 13:03	12505	MITR_T2	1	1	0	0.2	0.5	0.3	0.18	0.18	0	0	0	0	0	0
4/14/2024 13:04	65603	QVIL_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
4/14/2024 13:07	44301	BEAV_T2	10	12	2	0.31	0.47	0.16	-0.47	-0.45	1	1	0	600	600	0
4/14/2024 13:07	20403	ASHF_T2	1	4	3	0.5	0.48	-0.02	0.12	0.1	0	0	0	0	0	0
4/14/2024 13:07	20401	ASHF_T2	4	4	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/14/2024 13:07	20402	ASHF_T2	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/14/2024 13:07	44302	BEAV_T2	4	4	0	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
4/14/2024 13:08	49801	UNIV_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/14/2024 13:08	49803	UNIV_T1	3	2	-1	0.97	0.7	-0.27	0	0	0	0	0	0	0	0
4/14/2024 13:08	49802	UNIV_T2	2	2	0	0.6	0.9	0.3	-0.34	-0.32	0	0	0	0	0	0
4/14/2024 13:08	49804	UNIV_T1	2	1	-1	0.5	0.6	0.1	0.43	0.42	0	0	0	0	0	0
4/14/2024 13:09	45901	AUBU_T1	3	3	0	0.27	0.43	0.16	0	0	0	0	0	0	0	0
4/14/2024 13:09	45902	AUBU_T1	14	26	12	0.68	0.53	-0.15	-0.6	-0.59	0	0	0	0	0	0
4/14/2024 13:11	27503	WEIS_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/14/2024 13:11	27502	WEIS_T2	4	2	-2	0.73	0.3	-0.43	-0.68	-0.68	0	0	0	0	0	0
4/14/2024 13:12	61801	EELI_T2	3	5	2	0.27	0.36	0.09	-0.86	-0.85	1	1	0	600	600	0
4/14/2024 13:12	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 13:12	21206	ECAR_T2	1	1	0	6.7	7.7	1	1.2	1.2	0	0	0	0	0	0
4/14/2024 13:13	42401	GIMA_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/14/2024 13:14	45901	AUBU_T1	3	3	0	0.27	0.43	0.16	0	0	0	0	0	0	0	0
4/14/2024 13:14	52002	LING_T2	0	0	0	0	0	0	-0.23	-0.17	0	0	0	0	0	0
4/14/2024 13:14	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/14/2024 13:14	52004	LING_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/14/2024 13:14	45902	AUBU_T1	14	26	12	0.68	0.53	-0.15	-0.6	-0.59	0	0	0	0	0	0
4/14/2024 13:15	44505	HAMI_T2	6	6	0	0.4	0.58	0.18	0	0	0	0	0	0	0	0
4/14/2024 13:15	67605	WARW_T1	31	39	8	0.66	0.66	0	-1.18	-1.13	0	0	0	0	0	0
4/14/2024 13:15	67603	WARW_T1	2	5	3	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/14/2024 13:15	52004	LING_T2	1	1	0	0.2	0.3	0.1	-0.19	-0.19	0	0	0	0	0	0
4/14/2024 13:15	44504	HAMI_T2	0	2	2	0	0.45	0.45	-1.3	-1.3	0	0	0	0	0	0
4/14/2024 13:15	67604	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/14/2024 13:15	44502	HAMI_T2	2	3	1	1.6	1.2	-0.4	0	0	0	0	0	0	0	0
4/14/2024 13:16	12605	MACA_T1	1	2	1	0.1	0.8	0.7	0	0	0	0	0	0	0	0
4/14/2024 13:16	12606	MACA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 13:16	12604	MACA_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/14/2024 13:16	12601	MACA_T1	2	2	0	0.9	1.65	0.75	0.65	0.71	0	0	0	0	0	0
4/14/2024 13:16	12603	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 13:16	12602	MACA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/14/2024 13:17	12603	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 13:17	12601	MACA_T1	2	2	0	0.9	1.65	0.75	0	0	0	0	0	0	0	0
4/14/2024 13:17	12602	MACA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/14/2024 13:17	12606	MACA_T1	0	2	2	0	0.1	0.1	-0.36	-0.34	1	1	0	900	900	0
4/14/2024 13:17	12604	MACA_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/14/2024 13:17	12605	MACA_T1	1	2	1	0.1	0.8	0.7	0	0	0	0	0	0	0	0
4/14/2024 13:18	13105	NHAM_T2	0	0	0	0	0	0	-0.72	-0.74	1	1	0	1200	1200	0
4/14/2024 13:18	45702	LIND_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/14/2024 13:18	45701	LIND_T2	0	0	0	0	0	0	-1.12	-1.13	0	0	0	0	0	0
4/14/2024 13:19	42802	SELI_T1	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
4/14/2024 13:19	67605	WARW_T1	31	39	8	0.66	0.66	0	-1.18	-1.13	0	0	0	0	0	0
4/14/2024 13:19	67603	WARW_T1	2	5	3	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/14/2024 13:19	67604	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/14/2024 13:19	45701	LIND_T2	0	0	0	0	0	0	-1.12	-1.13	0	0	0	0	0	0
4/14/2024 13:19	45702	LIND_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/14/2024 13:20	13103	NHAM_T2	0	0	0	0	0	0	-1.73	-1.74	1	1	0	600	600	0
4/14/2024 13:21	28604	BLYT_T2	0	1	1	0	0.4	0.4	-1.61	-1.61	0	0	0	0	0	0
4/14/2024 13:21	14502	SCHO_T1	1	6	5	0.6	0.42	-0.18	0.54	0.58	0	0	0	0	0	0
4/14/2024 13:22	14601	SWHI_T1	0	2	2	0	0.6	0.6	-0.96	-0.95	0	0	0	0	0	0
4/14/2024 13:22	14602	SWHI_T1	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
4/14/2024 13:22	14603	SWHI_T1	3	10	7	0.3	0.74	0.44	0	0	0	0	0	0	0	0
4/14/2024 13:25	45902	AUBU_T1	17	36	19	0.63	0.45	-0.18	-0.59	-0.6	0	0	0	0	0	0
4/14/2024 13:25	45901	AUBU_T1	3	3	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/14/2024 13:27	22101	EDEL_T2	0	1	1	0	0.1	0.1	0.39	0.39	1	1	0	1200	1200	0
4/14/2024 13:27	23202	HIRU_T2	0	1	1	0	0.1	0.1	0.12	0.11	0	0	0	0	0	0
4/14/2024 13:29	26401	INOR_T1	2	3	1	4.15	3.13	-1.02	0.29	0.3	0	0	0	0	0	0
4/14/2024 13:29	26402	INOR_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
4/14/2024 13:30	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
4/14/2024 13:30	45701	LIND_T2	0	0	0	0	0	0	-1.13	-1.14	0	0	0	0	0	0
4/14/2024 13:30	45901	AUBU_T1	3	3	0	0.37	0.5	0.13	0	0	0	0	0	0	0	0
4/14/2024 13:30	67605	WARW_T1	35	42	7	0.69	0.67	-0.02	-1.13	-1.11	0	0	0	0	0	0
4/14/2024 13:30	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/14/2024 13:30	45702	LIND_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/14/2024 13:30	45902	AUBU_T1	25	37	12	0.54	0.43	-0.11	-0.59	-0.6	0	0	0	0	0	0
4/14/2024 13:30	67603	WARW_T1	3	6	3	0.57	0.57	0	0	0	0	0	0	0	0	0
4/14/2024 13:30	67604	WARW_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/14/2024 13:31	26402	INOR_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/14/2024 13:31	11805	FRAN_T1	2	5	3	0.9	1.04	0.14	-1.54	-1.56	1	1	0	1200	1200	0
4/14/2024 13:31	11804	FRAN_T1	4	4	0	0.85	1.38	0.53	0	0	0	0	0	0	0	0
4/14/2024 13:31	26401	INOR_T1	3	5	2	2.97	1.94	-1.03	0.29	0.3	0	0	0	0	0	0
4/14/2024 13:32	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
4/14/2024 13:33	12604	MACA_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/14/2024 13:33	12606	MACA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/14/2024 13:33	12603	MACA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/14/2024 13:33	12602	MACA_T1	0	1	1	0	0.8	0.8	-0.18	-0.16	0	0	0	0	0	0
4/14/2024 13:33	13302	ORVI_T2	22	79	57	0.5	0.32	-0.18	1.09	1.1	0	0	0	0	0	0
4/14/2024 13:33	12605	MACA_T1	1	3	2	0.1	0.67	0.57	0	0	0	0	0	0	0	0
4/14/2024 13:33	12601	MACA_T1	2	2	0	1.45	1.75	0.3	0	0	0	0	0	0	0	0
4/14/2024 13:33	42601	TUSC_T1	0	1	1	0	0.1	0.1	-0.51	-0.54	2	2	0	1800	1800	0
4/14/2024 13:33	13303	ORVI_T1	5	13	8	0.24	0.46	0.22	0.51	0.55	0	0	0	0	0	0
4/14/2024 13:34	12505	MITR_T2	1	1	0	0.5	0.8	0.3	0.17	0.25	0	0	0	0	0	0
4/14/2024 13:34	13302	ORVI_T2	22	79	57	0.5	0.32	-0.18	1.09	1.1	0	0	0	0	0	0
4/14/2024 13:34	12501	MITR_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/14/2024 13:34	12502	MITR_T2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
4/14/2024 13:35	67605	WARW_T1	35	42	7	0.69	0.67	-0.02	-1.13	-1.11	0	0	0	0	0	0
4/14/2024 13:35	67604	WARW_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/14/2024 13:35	13302	ORVI_T2	22	79	57	0.5	0.32	-0.18	2.18	2.21	0	0	0	0	0	0
4/14/2024 13:35	67603	WARW_T1	3	6	3	0.57	0.57	0	0	0	0	0	0	0	0	0
4/14/2024 13:37	13302	ORVI_T2	22	79	57	0.5	0.32	-0.18	2.18	2.21	0	0	0	0	0	0
4/14/2024 13:37	14603	SWHI_T1	9	12	3	0.71	0.67	-0.04	-1.69	-1.72	2	2	0	1200	1200	0
4/14/2024 13:37	54601	SUMM_T2	0	0	0	0	0	0	-1.87	-1.76	2	2	0	2100	2100	0
4/14/2024 13:37	14502	SCHO_T1	3	7	4	0.57	0.42	-0.15	0	0	0	0	0	0	0	0
4/14/2024 13:37	14501	SCHO_T1	0	30	30	0	0	0	0.27	0.21	0	0	0	0	0	0
4/14/2024 13:37	14601	SWHI_T1	1	2	1	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
4/14/2024 13:37	14602	SWHI_T1	1	3	2	1	0.63	-0.37	0	0	0	0	0	0	0	0
4/14/2024 13:38	14602	SWHI_T1	1	3	2	1	0.63	-0.37	0	0	0	0	0	0	0	0
4/14/2024 13:38	44301	BEAV_T2	11	12	1	0.47	0.53	0.06	0	0	0	0	0	0	0	0
4/14/2024 13:38	14603	SWHI_T1	9	12	3	0.71	0.67	-0.04	0	0	0	0	0	0	0	0
4/14/2024 13:38	44302	BEAV_T2	4	3	-1	0.6	0.8	0.2	0.27	0.28	0	0	0	0	0	0
4/14/2024 13:38	14601	SWHI_T1	1	2	1	0.9	0.65	-0.25	-0.95	-0.95	0	0	0	0	0	0
4/14/2024 13:39	14602	SWHI_T1	1	3	2	1	0.63	-0.37	0	0	0	0	0	0	0	0
4/14/2024 13:39	14603	SWHI_T1	9	12	3	0.71	0.67	-0.04	0	0	0	0	0	0	0	0
4/14/2024 13:39	14601	SWHI_T1	1	2	1	0.9	0.65	-0.25	-0.95	-0.93	0	0	0	0	0	0
4/14/2024 13:41	45901	AUBU_T1	3	3	0	0.37	0.5	0.13	0	0	0	0	0	0	0	0
4/14/2024 13:41	60701	BREC_T1	2	2	0	0.55	0.95	0.4	0.03	0.01	0	0	0	0	0	0
4/14/2024 13:41	45902	AUBU_T1	25	37	12	0.54	0.43	-0.11	-0.6	-0.61	0	0	0	0	0	0
4/14/2024 13:42	60101	COCA_T1	6	19	13	0.55	0.59	0.04	0	0	0	0	0	0	0	0
4/14/2024 13:42	60102	COCA_T1	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
4/14/2024 13:42	46002	BERW_T2	0	2	2	0	0.1	0.1	-1.47	-1.47	1	1	0	900	900	0
4/14/2024 13:42	60701	BREC_T1	2	2	0	0.55	0.95	0.4	0.05	0.01	0	0	0	0	0	0
4/14/2024 13:43	53501	EVIL_T2	18	21	3	0.56	0.62	0.06	-0.74	-0.71	0	0	0	0	0	0
4/14/2024 13:44	53501	EVIL_T2	18	21	3	0.56	0.62	0.06	0	0	0	0	0	0	0	0
4/14/2024 13:44	53502	EVIL_T2	0	0	0	0	0	0	0.74	0.79	0	0	0	0	0	0
4/14/2024 13:44	45801	HEGI_T1	0	0	0	0	0	0	-0.48	-0.49	1	1	0	900	900	0
4/14/2024 13:45	67605	WARW_T1	37	42	5	0.68	0.67	-0.01	-1.11	-1.12	0	0	0	0	0	0
4/14/2024 13:45	67603	WARW_T1	5	6	1	0.6	0.52	-0.08	0	0	0	0	0	0	0	0
4/14/2024 13:45	67604	WARW_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/14/2024 13:45	53502	EVIL_T2	0	0	0	0	0	0	0.74	0.79	0	0	0	0	0	0
4/14/2024 13:45	53501	EVIL_T2	19	22	3	0.61	0.56	-0.05	0	0	0	0	0	0	0	0
4/14/2024 13:46	64701	LITI_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
4/14/2024 13:46	45901	AUBU_T1	3	3	0	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
4/14/2024 13:46	45902	AUBU_T1	35	44	9	0.44	0.38	-0.06	-0.6	-0.61	0	0	0	0	0	0
4/14/2024 13:46	52004	LING_T2	1	1	0	0.3	0.3	0	-0.19	-0.19	0	0	0	0	0	0
4/14/2024 13:48	59302	MCAL_T1	2	1	-1	0.45	0.2	-0.25	-0.43	-0.41	1	1	0	600	600	0
4/14/2024 13:48	59301	MCAL_T1	7	6	-1	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
4/14/2024 13:49	45702	LIND_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
4/14/2024 13:49	45701	LIND_T2	0	0	0	0	0	0	-1.14	-1.14	0	0	0	0	0	0
4/14/2024 13:50	67603	WARW_T1	5	6	1	0.6	0.52	-0.08	0	0	0	0	0	0	0	0
4/14/2024 13:50	42802	SELI_T1	0	0	0	0	0	0	-0.02	-0.08	0	0	0	0	0	0
4/14/2024 13:50	67604	WARW_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/14/2024 13:50	12501	MITR_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/14/2024 13:50	12505	MITR_T2	1	3	2	0.8	0.8	0	0.25	0.22	0	0	0	0	0	0
4/14/2024 13:50	67605	WARW_T1	37	42	5	0.68	0.67	-0.01	-1.11	-1.12	0	0	0	0	0	0
4/14/2024 13:50	12502	MITR_T2	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
4/14/2024 13:50	13302	ORVI_T2	29	80	51	0.56	0.31	-0.25	1.1	1.16	0	0	0	0	0	0
4/14/2024 13:51	13601	RICH_T2	2	1	-1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
4/14/2024 13:51	13302	ORVI_T2	29	80	51	0.56	0.31	-0.25	1.1	1.16	0	0	0	0	0	0
4/14/2024 13:51	54602	SUMM_T2	0	0	0	0	0	0	-2.45	-2.43	1	1	0	600	600	0
4/14/2024 13:51	13606	RICH_T2	3	3	0	2.83	2.77	-0.06	0.55	0.53	0	0	0	0	0	0
4/14/2024 13:52	66502	SMAN_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/14/2024 13:52	66501	SMAN_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
4/14/2024 13:52	42701	AUGU_T1	2	1	-1	0.3	0.4	0.1	0	0	2	2	0	1800	1800	0
4/14/2024 13:52	66504	SMAN_T2	1	1	0	0.6	0.8	0.2	-0.58	-0.52	0	0	0	0	0	0
4/14/2024 13:54	45901	AUBU_T1	3	3	0	0.47	0.4	-0.07	0.98	0.98	0	0	0	0	0	0
4/14/2024 13:54	42501	ALTA_T2	1	0	-1	0.2	0	-0.2	-0.01	0.02	1	1	0	600	600	0
4/14/2024 13:54	45902	AUBU_T1	35	44	9	0.44	0.38	-0.06	0	0	0	0	0	0	0	0
4/14/2024 13:55	16102	BING_T2	7	8	1	1.09	1.13	0.04	-0.03	-0.15	0	0	0	0	0	0
4/14/2024 13:55	16103	BING_T2	2	2	0	0.75	1	0.25	0	0	0	0	0	0	0	0
4/14/2024 13:55	16101	BING_T2	2	3	1	0.95	0.47	-0.48	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/14/2024 13:56	42701	AUGU_T1	2	1	-1	0.3	0.4	0.1	0	0	2	2	0	1800	1800	0
4/14/2024 13:56	45902	AUBU_T1	35	44	9	0.44	0.38	-0.06	-0.61	-0.59	0	0	0	0	0	0
4/14/2024 13:56	53501	EVIL_T2	19	22	3	0.61	0.56	-0.05	-0.71	-0.75	0	0	0	0	0	0
4/14/2024 13:56	45901	AUBU_T1	3	3	0	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
4/14/2024 13:57	62105	ELAN_T1	3	3	0	0.43	0.5	0.07	0.39	0.42	0	0	0	0	0	0
4/14/2024 13:57	42501	ALTA_T2	1	0	-1	0.2	0	-0.2	-0.01	0.02	1	1	0	600	600	0
4/14/2024 13:57	10901	COOP_T2	2	4	2	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
4/14/2024 13:57	62102	ELAN_T1	0	0	0	0	0	0	0.59	0.51	0	0	0	0	0	0
4/14/2024 13:57	53501	EVIL_T2	19	22	3	0.61	0.56	-0.05	-1.41	-1.49	0	0	0	0	0	0
4/14/2024 13:57	10903	COOP_T2	10	40	30	0.24	0.2	-0.04	-0.44	-0.46	1	1	0	600	600	0
4/14/2024 13:58	62102	ELAN_T1	0	0	0	0	0	0	0.59	0.51	0	0	0	0	0	0
4/14/2024 13:58	41204	KENM_T2	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
4/14/2024 13:58	53501	EVIL_T2	19	22	3	0.61	0.56	-0.05	-0.71	-0.75	0	0	0	0	0	0
4/14/2024 13:58	41502	FAIR_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
4/14/2024 13:58	62105	ELAN_T1	3	3	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
4/14/2024 13:58	41202	KENM_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/14/2024 13:58	11202	ELHE_T2	0	0	0	0	0	0	0.45	0.41	0	0	0	0	0	0
4/14/2024 13:59	53501	EVIL_T2	19	22	3	0.61	0.56	-0.05	0	0	0	0	0	0	0	0
4/14/2024 13:59	53502	EVIL_T2	0	0	0	0	0	0	0.79	0.72	0	0	0	0	0	0
4/14/2024 13:59	21901	HUMB_T1	1	0	-1	0.2	0	-0.2	-2.22	-2.24	0	0	0	0	0	0
4/14/2024 13:59	62105	ELAN_T1	3	3	0	0.43	0.5	0.07	0.39	0.42	0	0	0	0	0	0
4/14/2024 14:00	53502	EVIL_T2	0	0	0	0	0	0	0.79	0.72	0	0	0	0	0	0
4/14/2024 14:00	21901	HUMB_T1	0	0	0	0	0	0	-2.22	-2.24	0	0	0	0	0	0
4/14/2024 14:00	67603	WARW_T1	6	2	-4	0.52	0.35	-0.17	0	0	0	0	0	0	0	0
4/14/2024 14:00	67604	WARW_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/14/2024 14:00	67605	WARW_T1	42	38	-4	0.67	0.71	0.04	-1.12	-1.13	0	0	0	0	0	0
4/14/2024 14:00	53501	EVIL_T2	20	29	9	0.57	0.52	-0.05	-0.71	-0.75	0	0	0	0	0	0
4/14/2024 14:01	24501	GOUL_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
4/14/2024 14:02	45902	AUBU_T1	37	35	-2	0.42	0.45	0.03	-0.61	-0.59	0	0	0	0	0	0
4/14/2024 14:02	45901	AUBU_T1	3	3	0	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
4/14/2024 14:04	67603	WARW_T1	6	2	-4	0.52	0.35	-0.17	0	0	0	0	0	0	0	0
4/14/2024 14:04	67604	WARW_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/14/2024 14:04	67605	WARW_T1	42	38	-4	0.67	0.71	0.04	-1.12	-1.13	0	0	0	0	0	0
4/14/2024 14:06	42802	SEU_T1	0	0	0	0	0	0	-0.04	0	0	0	0	0	0	0
4/14/2024 14:07	13601	RICH_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/14/2024 14:07	43801	SWIL_T1	2	2	0	3.25	3.3	0.05	0	0	0	0	0	0	0	0
4/14/2024 14:07	13606	RICH_T2	3	2	-1	2.77	4.05	1.28	0.53	0.51	0	0	0	0	0	0
4/14/2024 14:07	53101	WTWN_T1	6	7	1	0.57	0.54	-0.03	0	0	0	0	0	0	0	0
4/14/2024 14:07	53102	WTWN_T1	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
4/14/2024 14:07	43802	SWIL_T1	0	0	0	0	0	0	-0.24	-0.25	1	1	0	600	600	0
4/14/2024 14:07	60605	NCOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 14:08	54001	SDLE_T1	4	4	0	0.98	0.98	0	0	0	1	1	0	600	600	0
4/14/2024 14:10	14204	EALL_T2	2	1	-1	0.15	0.1	-0.05	-0.45	-0.44	0	0	0	0	0	0
4/14/2024 14:11	53102	WTWN_T1	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
4/14/2024 14:11	53101	WTWN_T1	6	7	1	0.57	0.54	-0.03	0	0	0	0	0	0	0	0
4/14/2024 14:12	45902	AUBU_T1	37	35	-2	0.42	0.45	0.03	-0.59	-0.58	0	0	0	0	0	0
4/14/2024 14:12	12202	FOGE_T2	47	144	97	0.43	0.33	-0.1	-0.6	-0.63	1	1	0	600	600	0
4/14/2024 14:12	45901	AUBU_T1	3	3	0	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
4/14/2024 14:14	67605	WARW_T1	42	38	-4	0.67	0.71	0.04	-1.13	-1.14	0	0	0	0	0	0
4/14/2024 14:14	67604	WARW_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/14/2024 14:14	67603	WARW_T1	6	2	-4	0.52	0.35	-0.17	0	0	0	0	0	0	0	0
4/14/2024 14:15	67602	WARW_T2	0	0	0	0	0	0	0.68	0.59	0	0	0	0	0	0
4/14/2024 14:17	45901	AUBU_T1	3	27	24	0.23	0.37	0.14	0	0	0	0	0	0	0	0
4/14/2024 14:17	23201	HIRU_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/14/2024 14:17	23202	HIRU_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/14/2024 14:17	23203	HIRU_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
4/14/2024 14:17	45902	AUBU_T1	34	29	-5	0.41	0.51	0.1	-0.59	-0.58	0	0	0	0	0	0
4/14/2024 14:19	67605	WARW_T1	33	48	15	0.72	0.67	-0.05	-1.13	-1.14	0	0	0	0	0	0
4/14/2024 14:19	67604	WARW_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/14/2024 14:19	67603	WARW_T1	2	3	1	0.15	0.47	0.32	0	0	0	0	0	0	0	0
4/14/2024 14:22	13902	SEID_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
4/14/2024 14:22	13905	SEID_T1	4	5	1	0.5	0.46	-0.04	0	0	0	0	0	0	0	0
4/14/2024 14:22	57403	SPAN_T1	2	3	1	0.55	0.57	0.02	-0.07	-0.07	0	0	0	0	0	0
4/14/2024 14:22	57401	SPAN_T1	2	2	0	1	1.05	0.05	0	0	0	0	0	0	0	0
4/14/2024 14:23	45901	AUBU_T1	3	27	24	0.23	0.37	0.14	0	0	0	0	0	0	0	0
4/14/2024 14:23	45902	AUBU_T1	34	29	-5	0.41	0.51	0.1	-0.58	-0.56	0	0	0	0	0	0
4/14/2024 14:24	20401	ASHF_T2	1	4	3	0.3	0.27	-0.03	-0.37	-0.33	0	0	0	0	0	0
4/14/2024 14:24	20402	ASHF_T2	2	3	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
4/14/2024 14:24	20403	ASHF_T2	3	5	2	0.43	0.48	0.05	0	0	0	0	0	0	0	0
4/14/2024 14:26	62105	ELAN_T1	1	2	1	0.8	0.55	-0.25	0.41	0.4	0	0	0	0	0	0
4/14/2024 14:28	45902	AUBU_T1	34	29	-5	0.41	0.51	0.1	-0.58	-0.56	0	0	0	0	0	0
4/14/2024 14:28	45901	AUBU_T1	3	27	24	0.23	0.37	0.14	0	0	0	0	0	0	0	0
4/14/2024 14:29	13501	MCMI_T1	0	0	0	0	0	0	0.14	0.04	0	0	0	0	0	0
4/14/2024 14:32	13503	MCMI_T2	247	255	8	0.63	0.69	0.06	-0.98	-0.94	0	0	0	0	0	0
4/14/2024 14:34	13503	MCMI_T2	247	255	8	0.63	0.69	0.06	-0.98	-0.94	0	0	0	0	0	0
4/14/2024 14:35	42201	SHEN_T2	2	2	0	0.6	0.75	0.15	0.57	0.58	0	0	0	0	0	0
4/14/2024 14:35	59201	THOM_T1	1	2	1	1.2	0.6	-0.6	0	0	0	0	0	0	0	0
4/14/2024 14:35	59202	THOM_T1	27	69	42	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
4/14/2024 14:37	42201	SHEN_T2	2	2	0	0.6	0.75	0.15	0.57	0.58	0	0	0	0	0	0
4/14/2024 14:38	45902	AUBU_T1	25	31	6	0.55	0.47	-0.08	-0.56	-0.59	0	0	0	0	0	0
4/14/2024 14:38	45901	AUBU_T1	2	3	1	0.45	0.27	-0.18	0	0	0	0	0	0	0	0
4/14/2024 14:40	56803	BENV_T1	3	5	2	0.2	0.57	0.37	0	0	0	0	0	0	0	0
4/14/2024 14:40	56801	BENV_T1	18	19	1	0.84	0.88	0.04	-1.52	-1.5	2	2	0	1200	1200	0
4/14/2024 14:43	56601	HAMP_T1	0	4	4	0	0.25	0.25	-3.38	-3.21	0	0	0	0	0	0
4/14/2024 14:44	45902	AUBU_T1	25	31	6	0.55	0.47	-0.08	-0.56	-0.59	0	0	0	0	0	0
4/14/2024 14:44	23202	HIRU_T2	1	1	0	0.2	0.2	0	0.11	0.12	0	0	0	0	0	0
4/14/2024 14:44	45901	AUBU_T1	2	3	1	0.45	0.27	-0.18	0	0	0	0	0	0	0	0
4/14/2024 14:44	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 14:51	67502	WEWI_T2	1	1	0	0.7	0.7	0	-1.48	-1.55	1	1	0	900	900	0
4/14/2024 14:51	17002	RIRO_T2	3	3	0	0.73	0.7	-0.03	0.33	0.31	0	0	0	0	0	0
4/14/2024 14:53	46602	LACR_T1	6	6	0	0.72	0.63	-0.09	-1.2	-1.18	0	0	0	0	0	0
4/14/2024 14:54	45901	AUBU_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/14/2024 14:54	45902	AUBU_T1	26	31	5	0.48	0.43	-0.05	-0.59	-0.57	0	0	0	0	0	0
4/14/2024 14:56	46203	DANV_T2	204	9	-195	1.3	0.42	-0.88	-1.23	-1.22	0	0	0	0	0	0
4/14/2024 14:56	46201	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/14/2024 14:57	46203	DANV_T2	204	9	-195	1.3	0.42	-0.88	-1.23	-1.22	0	0	0	0	0	0
4/14/2024 14:57	46201	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/14/2024 14:59	67604	WARW_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/14/2024 14:59	45901	AUBU_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/14/2024 14:59	45902	AUBU_T1	26	31	5	0.48	0.43	-0.05	-0.59	-0.57	0	0	0	0	0	0
4/14/2024 14:59	46102	MACI_T1	9	10	1	0.14	0.15	0.01	0.31	0.31	0	0	0	0	0	0
4/14/2024 14:59	67603	WARW_T1	3	4	1	0.47	0.75	0.28	0	0	0	0	0	0	0	0
4/14/2024 14:59	67605	WARW_T1	48	41	-7	0.67	0.7	0.03	-1.13	-1.16	0	0	0	0	0	0
4/14/2024 15:01	45702	LIND_T2	0	1	1	0	0.5	0.5	-0.58	-0.57	0	0	0	0	0	0
4/14/2024 15:02	45701	LIND_T2	0	0	0	0	0	0	-1.16	-1.16	0	0	0	0	0	0
4/14/2024 15:02	45702	LIND_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/14/2024 15:04	67604	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/14/2024 15:04	67605	WARW_T1	41	36	-5	0.7	0.71	0.01	-1.13	-1.16	0	0	0	0	0	0
4/14/2024 15:04	67603	WARW_T1	4	4	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
4/14/2024 15:10	45902	AUBU_T1	31	25	-6	0.43	0.45	0.02	-0.57	-0.58	0	0	0	0	0	0
4/14/2024 15:10	45901	AUBU_T1	2	3	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/14/2024 15:12	21901	HUMB_T1	0	0	0	0	0	0	-2.26	-2.26	0	0	0	0	0	0
4/14/2024 15:14	67605	WARW_T1	41	36	-5	0.7	0.71	0.01	-1.16	-1.16	0	0	0	0	0	0
4/14/2024 15:14	67604	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/14/2024 15:14	67603	WARW_T1	4	4	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
4/14/2024 15:15	45902	AUBU_T1	16	25	9	0.56	0.44	-0.12	-0.57	-0.58	0	0	0	0	0	0
4/14/2024 15:15	45901	AUBU_T1	2	3	1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/14/2024 15:16	46506	LOHA_T1	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
4/14/2024 15:16	46504	LOHA_T1	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/14/2024 15:19	67603	WARW_T1	3	3	0	0.77	0.83	0.06	0	0	0	0	0	0	0	0
4/14/2024 15:19	67605	WARW_T1	34	29	-5	0.73	1.01	0.28	-1.16	-1.16	0	0	0	0	0	0
4/14/2024 15:26	45902	AUBU_T1	16	25	9	0.56	0.44	-0.12	-0.58	-0.58	0	0	0	0	0	0
4/14/2024 15:26	45901	AUBU_T1	2	3	1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/14/2024 15:29	67603	WARW_T1	3	3	0	0.77	0.83	0.06	0	0	0	0	0	0	0	0
4/14/2024 15:29	67605	WARW_T1	34	29	-5	0.73	1.01	0.28	-1.16	-1.1	0	0	0	0	0	0
4/14/2024 15:29	53502	EVIL_T2	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
4/14/2024 15:29	53501	EVIL_T2	15	17	2	0.5	0.51	0.01	0	0	0	0	0	0	0	0
4/14/2024 15:30	12605	MACA_T1	3	1	-2	3	0.1	-2.9	0	0	0	0	0	0	0	0
4/14/2024 15:30	12602	MACA_T1	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/14/2024 15:30	12604	MACA_T1	1	0	-1	0.2	0	-0.2	0.27	0.26	0	0	0	0	0	0
4/14/2024 15:30	12603	MACA_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/14/2024 15:30	12606	MACA_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/14/2024 15:31	45902	AUBU_T1	25	18	-7	0.44	0.45	0.01	-0.58	-0.58	0	0	0	0	0	0
4/14/2024 15:31	45901	AUBU_T1	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/14/2024 15:31	53501	EVIL_T2	15	17	2	0.53	0.48	-0.05	-0.71	-0.76	0	0	0	0	0	0
4/14/2024 15:34	12603	MACA_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/14/2024 15:34	12604	MACA_T1	1	0	-1	0.2	0	-0.2	0.27	0.26	0	0	0	0	0	0
4/14/2024 15:34	12602	MACA_T1	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/14/2024 15:34	67603	WARW_T1	3	2	-1	0.83	0.65	-0.18	0	0	0	0	0	0	0	0
4/14/2024 15:34	67605	WARW_T1	29	24	-5	1	0.76	-0.24	-1.16	-1.1	0	0	0	0	0	0
4/14/2024 15:34	12606	MACA_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/14/2024 15:34	12605	MACA_T1	3	1	-2	3	0.1	-2.9	0	0	0	0	0	0	0	0
4/14/2024 15:36	64101	REFR_T1	1	1	0	0.3	0.3	0	-0.68	-0.76	0	0	0	0	0	0
4/14/2024 15:37	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 15:37	45402	WBLO_T2	4	3	-1	0.43	0.53	0.1	-1.76	-1.78	1	1	0	900	900	0
4/14/2024 15:38	45402	WBLO_T2	4	3	-1	0.43	0.53	0.1	-1.76	-1.78	1	1	0	900	900	0
4/14/2024 15:38	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	-0.28	-0.37	0	0	0	0	0	0
4/14/2024 15:38	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 15:38	20403	ASHF_T2	5	1	-4	0.52	1.1	0.58	0	0	0	0	0	0	0	0
4/14/2024 15:38	20402	ASHF_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/14/2024 15:39	64101	REFR_T1	1	1	0	0.3	0.3	0	-1.51	-1.52	0	0	0	0	0	0
4/14/2024 15:39	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 15:39	45402	WBLO_T2	4	3	-1	0.43	0.53	0.1	-1.78	-1.77	1	1	0	900	900	0
4/14/2024 15:40	25603	ARRO_T1	25	48	23	0.21	0.35	0.14	-0.16	-0.16	0	0	0	0	0	0
4/14/2024 15:41	45901	AUBU_T1	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/14/2024 15:41	45902	AUBU_T1	25	18	-7	0.44	0.45	0.01	-0.58	-0.6	0	0	0	0	0	0
4/14/2024 15:45	67605	WARW_T1	23	22	-1	0.76	0.7	-0.06	-1.1	-1.13	0	0	0	0	0	0
4/14/2024 15:45	67603	WARW_T1	2	1	-1	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
4/14/2024 15:47	45902	AUBU_T1	15	14	-1	0.51	0.45	-0.06	-0.58	-0.6	0	0	0	0	0	0
4/14/2024 15:47	45901	AUBU_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/14/2024 15:49	12606	MACA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/14/2024 15:49	12602	MACA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/14/2024 15:49	12604	MACA_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/14/2024 15:49	12605	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 15:49	12603	MACA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/14/2024 15:50	67603	WARW_T1	2	1	-1	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
4/14/2024 15:50	67605	WARW_T1	23	22	-1	0.76	0.7	-0.06	-1.1	-1.13	0	0	0	0	0	0
4/14/2024 15:51	12603	MACA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/14/2024 15:51	12605	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 15:51	12602	MACA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/14/2024 15:51	12606	MACA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/14/2024 15:51	12601	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 15:52	25603	ARRO_T1	33	57	24	0.32	0.35	0.03	0	0	0	0	0	0	0	0
4/14/2024 15:52	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 15:52	25601	ARRO_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
4/14/2024 15:57	45902	AUBU_T1	15	14	-1	0.51	0.45	-0.06	-0.6	-0.6	0	0	0	0	0	0
4/14/2024 15:57	45901	AUBU_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/14/2024 15:58	67503	WEWI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 15:58	67502	WEWI_T2	1	0	-1	0.1	0	-0.1	-1.52	-1.5	1	1	0	900	900	0
4/14/2024 15:59	25501	MADI_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/14/2024 15:59	25503	MADI_T1	147	74	-73	0.37	0.18	-0.19	-1.03	-1.03	0	0	0	0	0	0
4/14/2024 15:59	25502	MADI_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/14/2024 16:00	67603	WARW_T1	1	2	1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/14/2024 16:00	67605	WARW_T1	22	16	-6	0.7	0.75	0.05	-1.13	-1.09	0	0	0	0	0	0
4/14/2024 16:02	45902	AUBU_T1	14	4	-10	0.44	0.93	0.49	-0.6	-0.6	0	0	0	0	0	0
4/14/2024 16:05	67603	WARW_T1	1	2	1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/14/2024 16:05	67605	WARW_T1	22	16	-6	0.7	0.75	0.05	-1.13	-1.09	0	0	0	0	0	0
4/14/2024 16:08	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 16:08	64101	REFR_T1	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
4/14/2024 16:09	10903	COOP_T2	13	4	-9	0.1	0.33	0.23	-0.45	-0.45	1	1	0	600	600	0
4/14/2024 16:13	23203	HIRU_T2	1	0	-1	0.1	0	-0.1	0.14	0.15	0	0	0	0	0	0
4/14/2024 16:13	23201	HIRU_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/14/2024 16:13	45902	AUBU_T1	14	4	-10	0.44	0.93	0.49	-0.6	-0.59	0	0	0	0	0	0
4/14/2024 16:13	23202	HIRU_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/14/2024 16:15	41502	FAIR_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
4/14/2024 16:17	12701	MACU_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
4/14/2024 16:18	45902	AUBU_T1	4	3	-1	0.8	0.77	-0.03	-0.6	-0.59	0	0	0	0	0	0
4/14/2024 16:18	52004	LING_T2	0	0	0	0	0	0	-0.19	-0.18	0	0	0	0	0	0
4/14/2024 16:19	12701	MACU_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
4/14/2024 16:22	20403	ASHF_T2	1	1	0	0.6	0.3	-0.3	0.07	0.08	0	0	0	0	0	0
4/14/2024 16:23	64101	REFR_T1	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
4/14/2024 16:23	45902	AUBU_T1	4	3	-1	0.8	0.77	-0.03	-0.59	-0.58	0	0	0	0	0	0
4/14/2024 16:24	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 16:29	45902	AUBU_T1	4	3	-1	0.8	0.77	-0.03	-0.59	-0.58	0	0	0	0	0	0
4/14/2024 16:32	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 16:32	63404	HONY_T1	20	4	-16	0.19	0.23	0.04	0	0	0	0	0	0	0	0
4/14/2024 16:32	63401	HONY_T1	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
4/14/2024 16:35	67605	WARW_T1	14	10	-4	0.55	0.32	-0.23	-1.07	-1.08	0	0	0	0	0	0
4/14/2024 16:35	67603	WARW_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/14/2024 16:39	67603	WARW_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/14/2024 16:39	67605	WARW_T1	14	10	-4	0.55	0.32	-0.23	-1.08	-1.07	0	0	0	0	0	0
4/14/2024 16:39	45902	AUBU_T1	3	3	0	0.77	0.43	-0.34	-0.58	-0.58	0	0	0	0	0	0
4/14/2024 16:42	11402	FARM_T1	5	3	-2	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
4/14/2024 16:42	11405	FARM_T1	1	1	0	0.1	0.1	0	-1.11	-1.1	1	1	0	1200	1200	0
4/14/2024 16:44	45902	AUBU_T1	3	3	0	0.77	0.43	-0.34	-0.58	-0.58	0	0	0	0	0	0
4/14/2024 16:55	45902	AUBU_T1	3	3	0	0.43	0.23	-0.2	-0.58	-0.62	0	0	0	0	0	0
4/14/2024 17:00	45902	AUBU_T1	1	2	1	0.3	0.2	-0.1	-0.58	-0.62	0	0	0	0	0	0
4/14/2024 17:01	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
4/14/2024 17:03	58401	MORO_T1	0	0	0	0	0	0	-1.11	-1.07	1	1	0	600	600	0
4/14/2024 17:04	15203	SFAR_T2	0	0	0	0	0	0	-1.43	-1.45	0	0	0	0	0	0
4/14/2024 17:05	15203	SFAR_T2	0	0	0	0	0	0	-1.43	-1.45	0	0	0	0	0	0
4/14/2024 17:07	58401	MORO_T1	0	0	0	0	0	0	-1.11	-1.07	1	1	0	600	600	0
4/14/2024 17:08	15203	SFAR_T2	0	0	0	0	0	0	-1.43	-1.45	0	0	0	0	0	0
4/14/2024 17:11	45902	AUBU_T1	1	2	1	0.3	0.2	-0.1	-0.62	-0.59	0	0	0	0	0	0
4/14/2024 17:15	67605	WARW_T1	6	5	-1	0.37	0.28	-0.09	-1.05	-1.07	0	0	0	0	0	0
4/14/2024 17:15	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/14/2024 17:16	45902	AUBU_T1	2	3	1	0.2	0.17	-0.03	-0.62	-0.59	0	0	0	0	0	0
4/14/2024 17:19	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/14/2024 17:19	67605	WARW_T1	6	5	-1	0.37	0.28	-0.09	-1.05	-1.07	0	0	0	0	0	0
4/14/2024 17:26	45902	AUBU_T1	2	3	1	0.2	0.17	-0.03	-0.59	-0.59	0	0	0	0	0	0
4/14/2024 17:29	67605	WARW_T1	6	5	-1	0.37	0.28	-0.09	-1.07	-1.04	0	0	0	0	0	0
4/14/2024 17:29	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/14/2024 17:31	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 17:32	45902	AUBU_T1	2	3	1	0.1	0.17	0.07	-0.59	-0.59	0	0	0	0	0	0
4/14/2024 17:35	67605	WARW_T1	5	2	-3	0.28	0.15	-0.13	-1.07	-1.04	0	0	0	0	0	0
4/14/2024 17:41	45902	AUBU_T1	2	3	1	0.1	0.17	0.07	-0.59	-0.62	0	0	0	0	0	0
4/14/2024 17:42	45902	AUBU_T1	2	3	1	0.1	0.17	0.07	-0.59	-0.62	0	0	0	0	0	0
4/14/2024 17:47	45902	AUBU_T1	3	1	-2	0.17	0.1	-0.07	-0.59	-0.62	0	0	0	0	0	0
4/14/2024 17:55	60701	BREC_T1	0	0	0	0	0	0	-0.55	-0.55	1	1	0	600	600	0
4/14/2024 17:56	12601	MACA_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
4/14/2024 17:59	25503	MADI_T1	4	2	-2	0.1	0.15	0.05	-1	-0.98	0	0	0	0	0	0
4/14/2024 18:00	67703	WERN_T2	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
4/14/2024 18:03	65001	NEFF_T2	0	0	0	0	0	0	-1.03	-1.09	1	1	0	1200	1200	0
4/14/2024 18:09	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 18:12	63305	GREE_T1	0	0	0	0	0	0	-2.22	-2.3	1	1	0	900	900	0
4/14/2024 18:14	63305	GREE_T1	0	0	0	0	0	0	-2.22	-2.3	1	1	0	900	900	0
4/14/2024 18:26	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 18:30	64701	LITI_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
4/14/2024 18:32	12001	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 18:32	12006	HATF_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
4/14/2024 18:36	46506	LOHA_T1	0	1	1	0	0.5	0.5	-0.46	-0.47	0	0	0	0	0	0
4/14/2024 18:39	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
4/14/2024 18:40	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
4/14/2024 18:40	13901	SEID_T1	0	0	0	0	0	0	0.57	0.51	0	0	0	0	0	0
4/14/2024 18:44	63802	HEMP_T1	0	0	0	0	0	0	0.4	0.44	0	0	0	0	0	0
4/14/2024 18:44	63804	HEMP_T1	1	1	0	5.7	5.9	0.2	0	0	0	0	0	0	0	0
4/14/2024 18:45	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.61	-0.6	0	0	0	0	0	0
4/14/2024 18:55	47001	HUGH_T2	0	0	0	0	0	0	-0.85	-0.88	0	0	0	0	0	0
4/14/2024 18:58	47001	HUGH_T2	0	0	0	0	0	0	-0.85	-0.88	0	0	0	0	0	0
4/14/2024 19:06	43201	MVIL_T2	0	1	1	0	0	0	-0.32	-0.39	0	0	0	0	0	0
4/14/2024 19:06	43202	MVIL_T2	0	31	31	0	0.18	0.18	-0.74	-0.8	0	0	0	0	0	0
4/14/2024 19:09	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 19:12	49803	UNIV_T1	0	11	11	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 19:12	49804	UNIV_T1	0	83	83	0	5.33	5.33	0.41	0.37	0	0	0	0	0	0
4/14/2024 19:13	49804	UNIV_T1	0	83	83	0	5.33	5.33	0	0	0	0	0	0	0	0
4/14/2024 19:13	49803	UNIV_T1	0	11	11	0	0	0	-1.02	0.15	0	0	0	0	0	0
4/14/2024 19:14	49803	UNIV_T1	0	11	11	0	0	0	-1.02	0.15	0	0	0	0	0	0
4/14/2024 19:14	49804	UNIV_T1	0	83	83	0	5.33	5.33	0	0	0	0	0	0	0	0
4/14/2024 19:20	49804	UNIV_T1	1	0	-1	0.5	0	-0.5	0.41	0.37	0	0	0	0	0	0
4/14/2024 19:20	49803	UNIV_T1	11	0	-11	0.18	0	-0.18	0	0	0	0	0	0	0	0
4/14/2024 19:24	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.67	-0.64	2	2	0	1800	1800	0
4/14/2024 19:24	45402	WBLO_T2	0	1	1	0	0.6	0.6	-1.79	-1.81	1	1	0	900	900	0
4/14/2024 19:28	41902	REED_T1	4	66	62	0.45	9.05	8.6	0.87	0.76	0	0	0	0	0	0
4/14/2024 19:29	47403	PENS_T1	1	1	0	1.7	2.1	0.4	0	0	0	0	0	0	0	0
4/14/2024 19:29	47401	PENS_T1	0	649	649	0	5.18	5.18	0.75	1.04	0	0	0	0	0	0
4/14/2024 19:29	44302	BEAV_T2	0	26	26	0	0	0	0.03	0.11	0	0	0	0	0	0
4/14/2024 19:29	41902	REED_T1	4	66	62	0.45	9.05	8.6	0.87	0.76	0	0	0	0	0	0
4/14/2024 19:29	44301	BEAV_T2	0	671	671	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 19:30	47401	PENS_T1	476	75	-401	2.93	0.68	-2.25	1.51	2.08	0	0	0	0	0	0
4/14/2024 19:30	47403	PENS_T1	1	0	-1	2.1	0	-2.1	0	0	0	0	0	0	0	0
4/14/2024 19:32	41902	REED_T1	36	0	-36	0.38	0	-0.38	0.87	0.76	0	0	0	0	0	0
4/14/2024 19:33	42401	GIMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 19:33	41902	REED_T1	36	0	-36	0.38	0	-0.38	0.87	0.76	0	0	0	0	0	0
4/14/2024 19:35	47401	PENS_T1	476	75	-401	2.93	0.68	-2.25	0.75	1.04	0	0	0	0	0	0
4/14/2024 19:35	47403	PENS_T1	1	0	-1	2.1	0	-2.1	0	0	0	0	0	0	0	0
4/14/2024 19:50	42902	MIDD_T2	2	231	229	0.5	0.2	-0.3	-0.72	-0.72	0	0	0	0	0	0
4/14/2024 19:51	42902	MIDD_T2	2	231	229	0.5	0.2	-0.3	-0.72	-0.72	0	0	0	0	0	0
4/14/2024 19:51	42903	MIDD_T2	0	0	0	0	0	0	0	-0.36	0	0	0	0	0	0
4/14/2024 19:51	53502	EVIL_T2	0	3	3	0	0.4	0.4	-0.08	-0.99	0	0	0	0	0	0
4/14/2024 19:51	53501	EVIL_T2	0	22	22	0	0.25	0.25	0	0	0	0	0	0	0	0
4/14/2024 19:52	42903	MIDD_T2	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
4/14/2024 19:52	42902	MIDD_T2	2	231	229	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/14/2024 19:55	53502	EVIL_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
4/14/2024 19:55	53501	EVIL_T2	0	22	22	0	0.25	0.25	-0.55	-0.59	0	0	0	0	0	0
4/14/2024 19:55	13503	MCMI_T2	26	105	79	0.23	0.26	0.03	-0.96	-0.97	0	0	0	0	0	0
4/14/2024 19:56	13503	MCMI_T2	26	105	79	0.23	0.26	0.03	-0.96	-0.97	0	0	0	0	0	0
4/14/2024 20:08	44301	BEAV_T2	0	0	0	0	0	0	-0.5	-0.49	1	1	0	600	600	0
4/14/2024 20:10	42902	MIDD_T2	2	186	184	0.25	8.79	8.54	-0.72	-0.91	0	0	0	0	0	0
4/14/2024 20:10	42903	MIDD_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/14/2024 20:11	13503	MCMI_T2	0	105	105	0	0.26	0.26	-0.97	-0.01	0	0	0	0	0	0
4/14/2024 20:16	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/14/2024 20:16	53902	HALI_T2	1	1	0	3.2	5.4	2.2	-0.89	-0.92	0	0	0	0	0	0
4/14/2024 20:16	53903	HALI_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
4/14/2024 20:22	46802	HEPB_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
4/14/2024 20:23	57401	SPAN_T1	0	0	0	0	0	0	-4.24	-4.18	3	3	0	1800	1800	0
4/14/2024 20:25	56803	BENV_T1	4	3	-1	1.83	1.1	-0.73	0	0	0	0	0	0	0	0
4/14/2024 20:25	56801	BENV_T1	7	10	3	0.8	0.49	-0.31	-0.69	-0.81	1	1	0	600	600	0
4/14/2024 20:26	57401	SPAN_T1	0	0	0	0	0	0	-2.82	-2.79	2	2	0	1200	1200	0
4/14/2024 20:27	56803	BENV_T1	4	3	-1	1.83	1.1	-0.73	0	0	0	0	0	0	0	0
4/14/2024 20:27	56801	BENV_T1	7	10	3	0.8	0.49	-0.31	-0.69	-0.81	1	1	0	600	600	0
4/14/2024 20:27	61302	EARL_T1	0	0	0	0	0	0	-0.12	-0.12	1	1	0	1200	1200	0
4/14/2024 20:28	46803	HEPB_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
4/14/2024 20:28	45701	LIND_T2	0	0	0	0	0	0	-1.14	-1.14	0	0	0	0	0	0
4/14/2024 20:28	46801	HEPB_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/14/2024 20:28	46602	LACR_T1	0	0	0	0	0	0	-1.05	-1.01	0	0	0	0	0	0
4/14/2024 20:28	56801	BENV_T1	7	10	3	0.8	0.49	-0.31	-0.69	-0.81	1	1	0	600	600	0
4/14/2024 20:28	56803	BENV_T1	4	3	-1	1.83	1.1	-0.73	0	0	0	0	0	0	0	0
4/14/2024 20:28	61303	EARL_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
4/14/2024 20:29	61303	EARL_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
4/14/2024 20:30	45702	LIND_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
4/14/2024 20:30	45701	LIND_T2	0	0	0	0	0	0	-1.14	-1.14	0	0	0	0	0	0
4/14/2024 20:30	41202	KENM_T2	1	1	0	0.3	0.4	0.1	-0.66	-0.66	0	0	0	0	0	0
4/14/2024 20:30	43802	SWIL_T1	0	0	0	0	0	0	-0.29	-0.29	1	1	0	600	600	0
4/14/2024 20:30	43801	SWIL_T1	2	2	0	3.3	3.35	0.05	0	0	0	0	0	0	0	0
4/14/2024 20:30	58401	MORO_T1	0	1	1	0	0	0	-1.09	-1.09	1	1	0	600	600	0
4/14/2024 20:31	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/14/2024 20:32	45702	LIND_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
4/14/2024 20:32	47401	PENS_T1	107	143	36	0.74	0.78	0.04	1.02	1.03	0	0	0	0	0	0
4/14/2024 20:35	45702	LIND_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
4/14/2024 20:36	46801	HEPB_T2	2	2	0	0.5	0.6	0.1	0.55	0.55	0	0	0	0	0	0
4/14/2024 20:37	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.63	-0.62	0	0	0	0	0	0
4/14/2024 20:42	59101	WALK_T2	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
4/14/2024 20:43	59101	WALK_T2	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
4/14/2024 20:44	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 20:44	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 20:45	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 20:46	21206	ECAR_T2	1	2	1	8.1	8.2	0.1	1.29	1.29	0	0	0	0	0	0
4/14/2024 20:46	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 20:47	27605	PIRI_T2	0	0	0	0	0	0	-0.7	-0.63	1	1	0	900	900	0
4/14/2024 20:47	27603	PIRI_T2	0	0	0	0	0	0	-1.54	-1.55	2	2	0	1800	1800	0
4/14/2024 20:48	25503	MADI_T1	3	94	91	0.17	0.15	-0.02	-1	-1.03	0	0	0	0	0	0
4/14/2024 20:49	56801	BENV_T1	10	19	9	0.49	1.15	0.66	-0.81	-0.79	1	1	0	600	600	0
4/14/2024 20:49	61801	EELI_T2	0	0	0	0	0	0	-0.86	-0.93	1	1	0	600	600	0
4/14/2024 20:49	56803	BENV_T1	3	0	-3	1.1	0	-1.1	0	0	0	0	0	0	0	0
4/14/2024 20:50	61801	EELI_T2	0	0	0	0	0	0	-1.72	-1.86	2	2	0	1200	1200	0
4/14/2024 20:50	10903	COOP_T2	0	0	0	0	0	0	-0.44	-0.42	1	1	0	600	600	0
4/14/2024 20:54	16302	ALPA_T2	0	0	0	0	0	0	-0.85	-0.83	0	0	0	0	0	0
4/14/2024 20:55	25603	ARRO_T1	37	41	4	0.26	0.31	0.05	-0.18	-0.17	0	0	0	0	0	0
4/14/2024 20:57	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
4/14/2024 20:57	45501	DERR_T2	1	1	0	0.4	0.6	0.2	-0.63	-0.67	2	2	0	1800	1800	0
4/14/2024 21:01	24501	GOUL_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/14/2024 21:02	25601	ARRO_T1	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
4/14/2024 21:02	46004	BERW_T2	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
4/14/2024 21:02	25603	ARRO_T1	37	42	5	0.28	0.33	0.05	0	0	0	0	0	0	0	0
4/14/2024 21:04	46203	DANV_T2	115	155	40	0.46	0.57	0.11	-2.5	-2.48	0	0	0	0	0	0
4/14/2024 21:06	44301	BEAV_T2	0	0	0	0	0	0	-0.52	-0.55	1	1	0	600	600	0
4/14/2024 21:07	22602	KIMB_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
4/14/2024 21:07	44201	POIN_T1	0	17	17	0	0.13	0.13	-1.93	-1.88	1	1	0	1200	1200	0
4/14/2024 21:08	46002	BERW_T2	0	0	0	0	0	0	-1.49	-1.51	1	1	0	900	900	0
4/14/2024 21:08	44502	HAMI_T2	1	1	0	3.3	3.5	0.2	-0.99	-1	0	0	0	0	0	0
4/14/2024 21:09	46203	DANV_T2	115	155	40	0.46	0.57	0.11	-2.48	-2.52	0	0	0	0	0	0
4/14/2024 21:09	45402	WBLO_T2	1	1	0	0.2	0.2	0	-1.89	-1.92	1	1	0	900	900	0
4/14/2024 21:10	46004	BERW_T2	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
4/14/2024 21:10	20401	ASHF_T2	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:10	44502	HAMI_T2	1	1	0	3.3	3.5	0.2	0	0	0	0	0	0	0	0
4/14/2024 21:10	20403	ASHF_T2	0	1	1	0	0	0	0.07	0.05	0	0	0	0	0	0
4/14/2024 21:10	42802	SELI_T1	1	1	0	0.9	1.2	0.3	-1.04	-1.03	1	1	0	900	900	0
4/14/2024 21:10	44504	HAMI_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
4/14/2024 21:11	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:11	47401	PENS_T1	132	104	-28	0.74	0.78	0.04	1.06	1.09	0	0	0	0	0	0
4/14/2024 21:11	20403	ASHF_T2	0	1	1	0	0	0	0.14	0.1	0	0	0	0	0	0
4/14/2024 21:11	61101	BERK_T5	0	0	0	0	0	0	-1.75	-1.53	0	0	0	0	0	0
4/14/2024 21:11	20401	ASHF_T2	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:12	57401	SPAN_T1	0	0	0	0	0	0	-1.47	-1.47	1	1	0	600	600	0
4/14/2024 21:13	44201	POIN_T1	0	17	17	0	0.13	0.13	-1.88	-1.94	1	1	0	1200	1200	0
4/14/2024 21:13	44601	SALE_T2	0	0	0	0	0	0	-0.18	-0.16	0	0	0	0	0	0
4/14/2024 21:14	20401	ASHF_T2	1	0	-1	0	0	0	-0.38	-0.44	0	0	0	0	0	0
4/14/2024 21:14	47401	PENS_T1	132	104	-28	0.74	0.78	0.04	1.06	1.09	0	0	0	0	0	0
4/14/2024 21:14	61101	BERK_T5	0	0	0	0	0	0	-1.75	-1.53	0	0	0	0	0	0
4/14/2024 21:14	44601	SALE_T2	0	0	0	0	0	0	-0.18	-0.16	0	0	0	0	0	0
4/14/2024 21:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:14	20403	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:15	59302	MCAL_T1	0	1	1	0	0.3	0.3	-0.46	-0.48	1	1	0	600	600	0
4/14/2024 21:15	59301	MCAL_T1	2	3	1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
4/14/2024 21:15	67703	WERN_T2	0	0	0	0	0	0	-0.92	-1.01	1	1	0	900	900	0
4/14/2024 21:15	59202	THOM_T1	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
4/14/2024 21:17	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:17	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
4/14/2024 21:19	40101	HUNT_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
4/14/2024 21:19	42201	SHEN_T2	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
4/14/2024 21:19	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:20	45402	WBLO_T2	1	1	0	0.2	0.2	0	-1.89	-1.92	1	1	0	900	900	0
4/14/2024 21:20	51402	LYKE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 21:20	25402	LAHA_T2	81	90	9	0.23	0.26	0.03	-0.91	-0.92	0	0	0	0	0	0
4/14/2024 21:20	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
4/14/2024 21:20	41502	FAIR_T2	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
4/14/2024 21:20	21901	HUMB_T1	0	0	0	0	0	0	-2.29	-2.32	0	0	0	0	0	0
4/14/2024 21:20	46801	HEPB_T2	2	2	0	0.5	0.9	0.4	0.55	0.54	0	0	0	0	0	0
4/14/2024 21:21	53501	EVIL_T2	163	295	132	0.44	0.48	0.04	0	0	0	0	0	0	0	0
4/14/2024 21:21	21901	HUMB_T1	0	0	0	0	0	0	-2.29	-2.32	0	0	0	0	0	0
4/14/2024 21:21	42201	SHEN_T2	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
4/14/2024 21:21	53502	EVIL_T2	115	125	10	0.25	0.24	-0.01	-0.98	-0.98	0	0	0	0	0	0
4/14/2024 21:22	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:22	53502	EVIL_T2	115	125	10	0.25	0.24	-0.01	-0.98	-0.98	0	0	0	0	0	0
4/14/2024 21:22	53501	EVIL_T2	163	295	132	0.44	0.48	0.04	0	0	0	0	0	0	0	0
4/14/2024 21:22	21901	HUMB_T1	0	0	0	0	0	0	-2.29	-2.32	0	0	0	0	0	0
4/14/2024 21:23	53902	HALI_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
4/14/2024 21:23	53901	HALI_T2	1	2	1	0.4	0.6	0.2	-1.59	-1.6	0	0	0	0	0	0
4/14/2024 21:23	47101	MARL_T1	0	0	0	0	0	0	-0.32	-0.36	0	0	0	0	0	0
4/14/2024 21:23	53903	HALI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/14/2024 21:24	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
4/14/2024 21:24	53501	EVIL_T2	163	295	132	0.44	0.48	0.04	-0.62	-0.7	0	0	0	0	0	0
4/14/2024 21:24	53502	EVIL_T2	115	125	10	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
4/14/2024 21:25	40101	HUNT_T2	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
4/14/2024 21:25	42501	ALTA_T2	0	0	0	0	0	0	-0.11	-0.05	1	1	0	600	600	0
4/14/2024 21:25	53102	WTWN_T1	0	1	1	0	0.1	0.1	-0.57	-0.57	0	0	0	0	0	0
4/14/2024 21:25	66701	STRA_T1	0	0	0	0	0	0	-0.48	-0.51	1	1	0	600	600	0
4/14/2024 21:26	23404	HONE_T1	7	7	0	0.34	0.34	0	0	0	0	0	0	0	0	0
4/14/2024 21:26	53102	WTWN_T1	0	1	1	0	0.1	0.1	-0.57	-0.57	0	0	0	0	0	0
4/14/2024 21:26	53502	EVIL_T2	115	125	10	0.25	0.24	-0.01	-0.98	-0.93	0	0	0	0	0	0
4/14/2024 21:26	10801	CHHI_T1	0	0	0	0	0	0	-1.66	-1.03	2	1	-1	1500	900	-600
4/14/2024 21:26	23403	HONE_T1	87	89	2	0.18	0.2	0.02	-0.8	-0.81	0	0	0	0	0	0
4/14/2024 21:26	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/14/2024 21:26	53501	EVIL_T2	163	295	132	0.44	0.48	0.04	0	0	0	0	0	0	0	0
4/14/2024 21:27	46102	MACI_T1	3	4	1	0.1	0.1	0	0.28	0.27	0	0	0	0	0	0
4/14/2024 21:27	24104	EHAZ_T1	0	0	0	0	0	0	-2.32	-2.34	1	1	0	1200	1200	0
4/14/2024 21:27	24105	EHAZ_T1	4	4	0	5.68	5.58	-0.1	0	0	0	0	0	0	0	0
4/14/2024 21:27	40101	HUNT_T2	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
4/14/2024 21:27	10801	CHHI_T1	0	0	0	0	0	0	-1.66	-1.03	2	1	-1	1500	900	-600
4/14/2024 21:27	10602	BLGL_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
4/14/2024 21:28	20603	GRWO_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
4/14/2024 21:28	23201	HIRU_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/14/2024 21:28	53502	EVIL_T2	115	125	10	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
4/14/2024 21:28	13901	SEID_T1	0	0	0	0	0	0	0.46	0.42	0	0	0	0	0	0
4/14/2024 21:28	23203	HIRU_T2	0	0	0	0	0	0	0.1	-0.01	0	0	0	0	0	0
4/14/2024 21:28	53501	EVIL_T2	163	295	132	0.44	0.48	0.04	-1.24	-1.4	0	0	0	0	0	0
4/14/2024 21:28	24902	WHHA_T1	2	1	-1	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/14/2024 21:29	23202	HIRU_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
4/14/2024 21:29	26001	WDAM_T1	0	1	1	0	0.1	0.1	-0.41	-0.42	0	0	0	0	0	0
4/14/2024 21:29	26002	WDAM_T1	5	13	8	0.36	0.26	-0.1	0	0	0	0	0	0	0	0
4/14/2024 21:29	23201	HIRU_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/14/2024 21:29	40302	TAMA_T3	25	36	11	0.41	0.36	-0.05	0.27	0.27	0	0	0	0	0	0
4/14/2024 21:29	14603	SWHI_T1	0	0	0	0	0	0	-1.74	-1.77	2	2	0	1200	1200	0
4/14/2024 21:29	40303	TAMA_T3	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/14/2024 21:29	11805	FRAN_T1	0	0	0	0	0	0	-1.66	-1.57	1	1	0	1200	1200	0
4/14/2024 21:29	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:30	64202	KINZ_T1	2	3	1	0.35	0.93	0.58	0	0	0	0	0	0	0	0
4/14/2024 21:30	53502	EVIL_T2	123	131	8	0.24	0.26	0.02	0	0	0	0	0	0	0	0
4/14/2024 21:30	64204	KINZ_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
4/14/2024 21:30	42601	TUSC_T1	0	0	0	0	0	0	-0.74	-0.71	2	2	0	1800	1800	0
4/14/2024 21:30	45902	AUBU_T1	3	22	19	0.1	0.19	0.09	-0.65	-0.65	0	0	0	0	0	0
4/14/2024 21:30	11405	FARM_T1	1	4	3	3.6	0.9	-2.7	-1.13	-1.15	1	1	0	1200	1200	0
4/14/2024 21:30	64201	KINZ_T1	1	3	2	1	0.5	-0.5	0	0	0	0	0	0	0	0
4/14/2024 21:30	64203	KINZ_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
4/14/2024 21:30	45901	AUBU_T1	0	1	1	0	0.1	0.1	0.98	0.99	0	0	0	0	0	0
4/14/2024 21:30	24902	WHHA_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/14/2024 21:30	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
4/14/2024 21:30	53501	EVIL_T2	293	298	5	0.48	0.49	0.01	-0.62	-0.7	0	0	0	0	0	0
4/14/2024 21:30	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:31	12801	MICK_T1	0	0	0	0	0	0	-0.29	-0.31	1	1	0	600	600	0
4/14/2024 21:31	53501	EVIL_T2	293	298	5	0.48	0.49	0.01	-0.62	-0.7	0	0	0	0	0	0
4/14/2024 21:31	23203	HIRU_T2	0	0	0	0	0	0	0.1	-0.01	0	0	0	0	0	0
4/14/2024 21:31	12806	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:31	12807	MICK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/14/2024 21:31	53502	EVIL_T2	123	131	8	0.24	0.26	0.02	0	0	0	0	0	0	0	0
4/14/2024 21:31	23201	HIRU_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/14/2024 21:31	12803	MICK_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/14/2024 21:32	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 21:32	13606	RICH_T2	1	4	3	6.2	1.58	-4.62	0.52	0.49	0	0	0	0	0	0
4/14/2024 21:32	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:32	45902	AUBU_T1	3	22	19	0.1	0.19	0.09	-0.65	-0.65	0	0	0	0	0	0
4/14/2024 21:32	15203	SFAR_T2	0	0	0	0	0	0	-1.52	-1.53	0	0	0	0	0	0
4/14/2024 21:33	13302	ORVI_T2	1	15	14	0.1	0.19	0.09	1.08	1.06	0	0	0	0	0	0
4/14/2024 21:33	65001	NEFF_T2	1	58	57	0.1	0.12	0.02	-1.25	-1.25	1	1	0	1200	1200	0
4/14/2024 21:33	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 21:33	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/14/2024 21:33	48302	ORWI_T2	2	2	0	1.4	1.7	0.3	0	0	0	0	0	0	0	0
4/14/2024 21:33	45902	AUBU_T1	3	22	19	0.1	0.19	0.09	-1.3	-1.31	0	0	0	0	0	0
4/14/2024 21:33	65003	NEFF_T2	4	10	6	0.23	0.19	-0.04	0	0	0	0	0	0	0	0
4/14/2024 21:33	53501	EVIL_T2	293	298	5	0.48	0.49	0.01	-0.62	-0.7	0	0	0	0	0	0
4/14/2024 21:33	16301	ALPA_T1	0	1	1	0	0.1	0.1	-0.5	-0.51	0	0	0	0	0	0
4/14/2024 21:33	66203	SISP_T2	0	0	0	0	0	0	-1.49	-1.43	1	1	0	1200	1200	0
4/14/2024 21:33	53502	EVIL_T2	123	131	8	0.24	0.26	0.02	0	0	0	0	0	0	0	0
4/14/2024 21:34	20401	ASHF_T2	0	1	1	0	0.4	0.4	-0.44	-0.41	0	0	0	0	0	0
4/14/2024 21:34	40602	PIGR_T1	0	0	0	0	0	0	-0.41	-0.36	2	2	0	1200	1200	0
4/14/2024 21:34	27503	WEIS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 21:34	16301	ALPA_T1	0	1	1	0	0.1	0.1	-0.5	-0.51	0	0	0	0	0	0
4/14/2024 21:34	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/14/2024 21:34	27502	WEIS_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/14/2024 21:34	12701	MACU_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
4/14/2024 21:35	64204	KINZ_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
4/14/2024 21:35	14601	SWHI_T1	0	0	0	0	0	0	-0.99	-1	0	0	0	0	0	0
4/14/2024 21:35	17002	RIRO_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
4/14/2024 21:35	64201	KINZ_T1	1	3	2	1	0.5	-0.5	-0.69	-0.73	2	2	0	1200	1200	0
4/14/2024 21:35	23201	HIRU_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/14/2024 21:35	14603	SWHI_T1	0	0	0	0	0	0	-1.74	-1.77	2	2	0	1200	1200	0
4/14/2024 21:35	56802	BENV_T2	0	1	1	0	0.1	0.1	-1.49	-1.49	0	0	0	0	0	0
4/14/2024 21:35	45901	AUBU_T1	0	1	1	0	0.1	0.1	1.96	1.98	0	0	0	0	0	0
4/14/2024 21:35	56801	BENV_T1	21	21	0	1.21	1.38	0.17	-0.83	-0.84	1	1	0	600	600	0
4/14/2024 21:35	64202	KINZ_T1	2	3	1	0.35	0.93	0.58	0	0	0	0	0	0	0	0
4/14/2024 21:35	45902	AUBU_T1	3	22	19	0.1	0.19	0.09	-1.95	-1.96	0	0	0	0	0	0
4/14/2024 21:35	14502	SCHO_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
4/14/2024 21:35	26002	WDAM_T1	13	3	-10	0.25	0.6	0.35	0	0	0	0	0	0	0	0
4/14/2024 21:35	26001	WDAM_T1	1	0	-1	0.1	0	-0.1	-0.82	-0.84	0	0	0	0	0	0
4/14/2024 21:35	20401	ASHF_T2	0	1	1	0	0.4	0.4	-0.44	-0.41	0	0	0	0	0	0
4/14/2024 21:35	58401	MORO_T1	0	0	0	0	0	0	-1.12	-1.12	1	1	0	600	600	0
4/14/2024 21:35	23202	HIRU_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
4/14/2024 21:36	45902	AUBU_T1	3	22	19	0.1	0.19	0.09	-0.65	-0.65	0	0	0	0	0	0
4/14/2024 21:36	12502	MITR_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
4/14/2024 21:36	12505	MITR_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
4/14/2024 21:36	66504	SMAN_T2	0	0	0	0	0	0	-1.17	-1.24	0	0	0	0	0	0
4/14/2024 21:36	56802	BENV_T2	0	1	1	0	0.1	0.1	-2.97	-2.99	0	0	0	0	0	0
4/14/2024 21:36	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/14/2024 21:36	40601	PIGR_T1	0	0	0	0	0	0	-0.38	-0.48	0	0	0	0	0	0
4/14/2024 21:36	12606	MACA_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
4/14/2024 21:36	14601	SWHI_T1	0	0	0	0	0	0	-0.99	-1	0	0	0	0	0	0
4/14/2024 21:37	51402	LYKE_T1	2	5	3	0.1	0.1	0	0	0	0	0	0	0	0	0
4/14/2024 21:37	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:37	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
4/14/2024 21:37	20401	ASHF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/14/2024 21:37	56601	HAMP_T1	0	0	0	0	0	0	-1.82	-1.9	0	0	0	0	0	0
4/14/2024 21:37	16102	BING_T2	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
4/14/2024 21:37	20403	ASHF_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
4/14/2024 21:37	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:37	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/14/2024 21:37	12604	MACA_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
4/14/2024 21:38	15203	SFAR_T2	0	0	0	0	0	0	-1.52	-1.53	0	0	0	0	0	0
4/14/2024 21:38	54001	SDLE_T1	1	2	1	0.8	0.5	-0.3	0	0	1	1	0	600	600	0
4/14/2024 21:38	13302	ORVI_T2	1	15	14	0.1	0.19	0.09	1.08	1.06	0	0	0	0	0	0
4/14/2024 21:38	67605	WARW_T1	12	13	1	0.39	0.52	0.13	-1.27	-1.26	0	0	0	0	0	0
4/14/2024 21:38	12701	MACU_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
4/14/2024 21:39	63602	LETO_T1	0	0	0	0	0	0	-0.29	-0.41	0	0	0	0	0	0
4/14/2024 21:39	52004	LING_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
4/14/2024 21:39	40602	PIGR_T1	0	0	0	0	0	0	-0.18	-0.19	1	1	0	600	600	0
4/14/2024 21:39	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:39	10903	COOP_T2	0	11	11	0	0.1	0.1	-0.45	-0.48	1	1	0	600	600	0
4/14/2024 21:39	64701	LITI_T1	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
4/14/2024 21:39	10901	COOP_T2	0	0	0	0	0	0	0.8	0.78	0	0	0	0	0	0
4/14/2024 21:39	67605	WARW_T1	12	13	1	0.39	0.52	0.13	0	0	0	0	0	0	0	0
4/14/2024 21:39	67603	WARW_T1	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
4/14/2024 21:40	12001	HATF_T1	0	0	0	0	0	0	0.32	0.21	1	1	0	600	600	0
4/14/2024 21:40	63804	HEMP_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
4/14/2024 21:40	62101	ELAN_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
4/14/2024 21:40	57002	WHHI_T2	0	0	0	0	0	0	-1.43	-1.45	1	1	0	1200	1200	0
4/14/2024 21:40	12602	MACA_T1	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
4/14/2024 21:40	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:40	56801	BENV_T1	21	21	0	1.21	1.38	0.17	-2.52	-2.6	3	3	0	1800	1800	0
4/14/2024 21:40	67702	WERN_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
4/14/2024 21:40	12005	HATF_T1	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
4/14/2024 21:40	64204	KINZ_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
4/14/2024 21:40	64101	REFR_T1	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
4/14/2024 21:40	63802	HEMP_T1	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
4/14/2024 21:40	63202	MGTN_T2	0	0	0	0	0	0	-0.47	-0.45	1	1	0	900	900	0
4/14/2024 21:40	60701	BREC_T1	0	0	0	0	0	0	-1.21	-1.21	2	2	0	1200	1200	0
4/14/2024 21:40	64201	KINZ_T1	1	3	2	1	0.5	-0.5	-0.73	-0.77	2	2	0	1200	1200	0
4/14/2024 21:40	57006	WHHI_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/14/2024 21:40	14802	TREI_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
4/14/2024 21:40	52004	LING_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
4/14/2024 21:40	62105	ELAN_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
4/14/2024 21:40	64202	KINZ_T1	2	3	1	0.35	0.93	0.58	0	0	0	0	0	0	0	0
4/14/2024 21:40	13302	ORVI_T2	1	15	14	0.1	0.19	0.09	2.13	1.89	0	0	0	0	0	0
4/14/2024 21:41	63804	HEMP_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
4/14/2024 21:41	60801	BUCK_T1	0	0	0	0	0	0	-0.89	-0.91	1	1	0	600	600	0
4/14/2024 21:41	13303	ORVI_T1	0	0	0	0	0	0	0.48	0.55	0	0	0	0	0	0
4/14/2024 21:41	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:41	66703	STRA_T1	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
4/14/2024 21:41	56802	BENV_T2	0	1	1	0	0.1	0.1	-4.48	-4.64	0	0	0	0	0	0
4/14/2024 21:41	12006	HATF_T1	0	0	0	0	0	0	0.64	0.68	0	0	0	0	0	0
4/14/2024 21:41	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:41	64402	LAND_T2	0	0	0	0	0	0	-0.62	-0.62	1	1	0	600	600	0
4/14/2024 21:41	60701	BREC_T1	0	0	0	0	0	0	-0.61	-0.61	1	1	0	600	600	0
4/14/2024 21:41	12005	HATF_T1	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
4/14/2024 21:41	58402	MORO_T1	0	0	0	0	0	0	-0.73	-0.72	2	2	0	1500	1500	0
4/14/2024 21:41	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:41	63802	HEMP_T1	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
4/14/2024 21:41	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/14/2024 21:41	12604	MACA_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
4/14/2024 21:42	10801	CHHI_T1	0	0	0	0	0	0	-1.03	-1.05	1	1	0	900	900	0
4/14/2024 21:42	56802	BENV_T2	0	1	1	0	0.1	0.1	-2.99	-3.09	0	0	0	0	0	0
4/14/2024 21:42	65205	PRIN_T1	1	3	2	1.9	2.1	0.2	0	0	0	0	0	0	0	0
4/14/2024 21:42	64403	LAND_T1	0	0	0	0	0	0	-1.93	-1.91	1	1	0	900	900	0
4/14/2024 21:42	63305	GREE_T1	13	12	-1	0.22	0.25	0.03	-2.35	-2.37	1	1	0	900	900	0
4/14/2024 21:42	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:42	13105	NHAM_T2	0	0	0	0	0	0	-0.73	-0.75	1	1	0	1200	1200	0
4/14/2024 21:42	14601	SWHI_T1	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
4/14/2024 21:42	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:42	66505	SMAN_T2	0	0	0	0	0	0	-0.15	-0.09	1	1	0	900	900	0
4/14/2024 21:42	15203	SFAR_T2	0	0	0	0	0	0	-1.53	-1.56	0	0	0	0	0	0
4/14/2024 21:42	12005	HATF_T1	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
4/14/2024 21:42	12002	HATF_T1	0	1	1	0	0	0	-0.3	-0.32	0	0	0	0	0	0
4/14/2024 21:43	67605	WARW_T1	12	13	1	0.39	0.52	0.13	-1.27	-1.26	0	0	0	0	0	0
4/14/2024 21:43	12001	HATF_T1	0	0	0	0	0	0	0.32	0.21	1	1	0	600	600	0
4/14/2024 21:43	13302	ORVI_T2	1	15	14	0.1	0.19	0.09	1.06	0.94	0	0	0	0	0	0
4/14/2024 21:43	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:43	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:43	60101	COCA_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
4/14/2024 21:43	12005	HATF_T1	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
4/14/2024 21:43	54001	SDLE_T1	1	2	1	0.8	0.5	-0.3	0	0	1	1	0	600	600	0
4/14/2024 21:43	12202	FOGE_T2	0	0	0	0	0	0	-0.66	-0.68	1	1	0	600	600	0
4/14/2024 21:44	56802	BENV_T2	0	1	1	0	0.1	0.1	-1.49	-1.55	0	0	0	0	0	0
4/14/2024 21:44	56801	BENV_T1	21	21	0	1.21	1.38	0.17	-0.84	-0.87	1	1	0	600	600	0
4/14/2024 21:44	14501	SCHO_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
4/14/2024 21:44	60803	BUCK_T1	0	0	0	0	0	0	-1.23	-1.23	1	1	0	600	600	0
4/14/2024 21:44	63401	HONY_T1	0	0	0	0	0	0	0.01	0.05	0	0	0	0	0	0
4/14/2024 21:44	61303	EARL_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
4/14/2024 21:44	13302	ORVI_T2	1	15	14	0.1	0.19	0.09	1.06	0.94	0	0	0	0	0	0
4/14/2024 21:44	14502	SCHO_T1	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
4/14/2024 21:44	58402	MORO_T1	0	0	0	0	0	0	-0.73	-0.72	2	2	0	1500	1500	0
4/14/2024 21:44	67605	WARW_T1	12	13	1	0.39	0.52	0.13	-1.27	-1.26	0	0	0	0	0	0
4/14/2024 21:44	66502	SMAN_T2	0	0	0	0	0	0	-0.55	-0.51	0	0	0	0	0	0
4/14/2024 21:44	67203	TEHI_T1	0	0	0	0	0	0	0.74	0.71	1	1	0	900	900	0
4/14/2024 21:44	54001	SDLE_T1	1	2	1	0.8	0.5	-0.3	0	0	1	1	0	600	600	0
4/14/2024 21:45	67604	WARW_T1	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
4/14/2024 21:45	62105	ELAN_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
4/14/2024 21:45	64101	REFR_T1	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
4/14/2024 21:45	60501	NMAN_T2	3	3	0	4.2	4.3	0.1	0	0	0	0	0	0	0	0
4/14/2024 21:45	60502	NMAN_T2	0	0	0	0	0	0	-0.65	-0.68	0	0	0	0	0	0
4/14/2024 21:45	67605	WARW_T1	13	14	1	0.51	0.68	0.17	0	0	0	0	0	0	0	0
4/14/2024 21:45	12701	MACU_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
4/14/2024 21:45	62101	ELAN_T1	1	1	0	2.8	1.5	-1.3	0	0	0	0	0	0	0	0
4/14/2024 21:45	65205	PRIN_T1	1	1	0	2	2.2	0.2	0	0	0	0	0	0	0	0
4/14/2024 21:46	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:46	60803	BUCK_T1	0	0	0	0	0	0	-1.23	-1.23	1	1	0	600	600	0
4/14/2024 21:46	65901	SAKR_T2	1	1	0	9.1	9.3	0.2	-1.4	-1.45	1	1	0	900	900	0
4/14/2024 21:46	64101	REFR_T1	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
4/14/2024 21:46	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/14/2024 21:47	63305	GREE_T1	7	14	7	0.23	0.23	0	-2.35	-2.37	1	1	0	900	900	0
4/14/2024 21:47	62102	ELAN_T1	0	0	0	0	0	0	0.71	0.94	0	0	0	0	0	0
4/14/2024 21:47	63404	HONY_T1	0	18	18	0	0.13	0.13	0	0	0	0	0	0	0	0
4/14/2024 21:47	62101	ELAN_T1	1	1	0	2.8	1.5	-1.3	0	0	0	0	0	0	0	0
4/14/2024 21:47	56601	HAMP_T1	0	0	0	0	0	0	-1.9	-1.8	0	0	0	0	0	0
4/14/2024 21:47	63401	HONY_T1	0	0	0	0	0	0	0.01	0.05	0	0	0	0	0	0
4/14/2024 21:48	63801	HEMP_T1	0	0	0	0	0	0	-0.37	-0.41	0	0	0	0	0	0
4/14/2024 21:48	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2024 21:48	63804	HEMP_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
4/14/2024 21:49	60701	BREC_T1	0	0	0	0	0	0	-0.61	-0.61	1	1	0	600	600	0
4/14/2024 21:49	14204	EALL_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
4/14/2024 21:50	66703	STRA_T1	0	4	4	0	0.15	0.15	-0.49	-0.49	0	0	0	0	0	0
4/14/2024 21:50	67201	TEHI_T1	0	18	18	0	0.1	0.1	-0.04	-0.06	0	0	0	0	0	0
4/14/2024 21:50	66504	SMAN_T2	0	0	0	0	0	0	-0.62	-0.69	0	0	0	0	0	0
4/14/2024 21:51	62102	ELAN_T1	0	0	0	0	0	0	0.71	0.94	0	0	0	0	0	0
4/14/2024 21:51	62101	ELAN_T1	1	1	0	2.8	1.5	-1.3	0	0	0	0	0	0	0	0
4/14/2024 21:53	60101	COCA_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
4/14/2024 21:53	61303	EARL_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
4/14/2024 21:53	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/14/2024 21:53	57403	SPAN_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
4/14/2024 21:53	64305	LINC_T1	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
4/14/2024 21:54	63302	GREE_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
4/14/2024 21:54	63305	GREE_T1	7	14	7	0.23	0.23	0	0	0	0	0	0	0	0	0
4/14/2024 21:56	67703	WERN_T2	0	0	0	0	0	0	-2.06	-2.05	2	2	0	1800	1800	0
4/14/2024 21:59	55001	NEWP_T1	50	1	-49	0.26	0	-0.26	0	0	0	0	0	0	0	0
4/14/2024 21:59	55002	NEWP_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/14/2024 22:13	51002	NHAR_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
4/14/2024 22:13	51003	NHAR_T1	0	1	1	0	4	4	0	0	0	0	0	0	0	0
4/14/2024 22:13	51004	NHAR_T1	7	13	6	1.04	0.98	-0.06	-0.47	-0.46	0	0	0	0	0	0
4/14/2024 22:46	42802	SELI_T1	1	1	0	0.7	0.8	0.1	-0.11	-0.12	0	0	0	0	0	0
4/14/2024 22:53	54001	SDIE_T1	1	1	0	0.6	0.9	0.3	0	0	1	1	0	600	600	0
4/14/2024 23:59	55001	NEWP_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/14/2024 23:59	55002	NEWP_T1	6	5	-1	1.1	1.2	0.1	-0.08	-0.35	0	0	0	0	0	0
4/15/2024 0:02	55001	NEWP_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/15/2024 0:02	55002	NEWP_T1	10	6	-4	1.2	1.33	0.13	-0.08	-0.35	0	0	0	0	0	0
4/15/2024 0:20	47401	PENS_T1	241	246	5	1.59	1.59	0	0.87	0.99	0	0	0	0	0	0
4/15/2024 0:36	58401	MORO_T1	0	0	0	0	0	0	-1.28	-1.29	1	1	0	600	600	0
4/15/2024 1:03	56801	BENV_T1	37	34	-3	1.09	1.29	0.2	-1	-1	1	1	0	600	600	0
4/15/2024 1:03	56803	BENV_T1	5	3	-2	0.12	0.3	0.18	0	0	0	0	0	0	0	0
4/15/2024 1:12	12601	MACA_T1	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
4/15/2024 1:53	46801	HEPB_T2	2	2	0	0.7	0.35	-0.35	0.43	0.45	0	0	0	0	0	0
4/15/2024 3:16	56801	BENV_T1	30	25	-5	0.7	0.87	0.17	-0.98	-0.99	1	1	0	600	600	0
4/15/2024 3:16	56803	BENV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 3:19	56801	BENV_T1	30	25	-5	0.7	0.87	0.17	-0.98	-0.99	1	1	0	600	600	0
4/15/2024 3:19	56803	BENV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 3:23	56801	BENV_T1	30	25	-5	0.7	0.87	0.17	-0.99	-1	1	1	0	600	600	0
4/15/2024 3:23	56803	BENV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 3:28	43202	MVIL_T2	70	45	-25	0.49	0.21	-0.28	-0.68	-0.81	0	0	0	0	0	0
4/15/2024 3:39	65503	MOJO_T2	29	27	-2	0.31	0.3	-0.01	-0.76	-0.77	0	0	0	0	0	0
4/15/2024 7:08	15001	BLMO_T1	0	6	6	0	0.17	0.17	0	0	0	0	0	0	0	0
4/15/2024 7:10	40502	CRES_T2	10	0	-10	0.18	0	-0.18	-0.07	-0.12	0	0	0	0	0	0
4/15/2024 7:10	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 7:21	45901	AUBU_T1	0	0	0	0	0	0	0.62	0.69	0	0	0	0	0	0
4/15/2024 7:23	40505	CRES_T1	3	3	0	5.13	5.73	0.6	0	0	0	0	0	0	0	0
4/15/2024 7:23	40504	CRES_T1	0	0	0	0	0	0	-0.54	-0.5	0	0	0	0	0	0
4/15/2024 7:24	46203	DANV_T2	192	183	-9	0.77	0.71	-0.06	-2.49	-2.5	0	0	0	0	0	0
4/15/2024 7:35	67703	WERN_T2	0	0	0	0	0	0	-0.37	-0.36	1	1	0	900	900	0
4/15/2024 7:39	67702	WERN_T2	0	0	0	0	0	0	-0.12	-0.1	0	0	0	0	0	0
4/15/2024 7:39	46203	DANV_T2	180	187	7	0.68	0.58	-0.1	-2.5	-1.25	0	0	0	0	0	0
4/15/2024 7:39	40801	EXCH_T2	0	0	0	0	0	0	-0.59	-0.49	1	1	0	1200	1200	0
4/15/2024 7:39	24902	WHHA_T1	2	91	89	1.05	0.59	-0.46	0	0	0	0	0	0	0	0
4/15/2024 7:41	40801	EXCH_T2	0	0	0	0	0	0	-0.59	-0.49	1	1	0	1200	1200	0
4/15/2024 7:41	40802	EXCH_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
4/15/2024 7:42	41502	FAIR_T2	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
4/15/2024 7:43	40802	EXCH_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
4/15/2024 7:44	40802	EXCH_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
4/15/2024 7:47	65702	RVIL_T2	0	0	0	0	0	0	-1.03	-1.02	1	1	0	600	600	0
4/15/2024 7:49	15203	SFAR_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 7:49	15204	SFAR_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
4/15/2024 7:54	15203	SFAR_T2	0	6	6	0	0.2	0.2	-1.57	-1.62	0	0	0	0	0	0
4/15/2024 7:57	46801	HEPB_T2	2	2	0	0.6	0.6	0	0.54	0.63	0	0	0	0	0	0
4/15/2024 7:59	41801	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 8:00	41801	GOCI_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 8:01	67703	WERN_T2	0	0	0	0	0	0	-0.36	-0.35	1	1	0	900	900	0
4/15/2024 8:02	43202	MVIL_T2	42	88	46	0.17	0.48	0.31	-0.69	-0.65	0	0	0	0	0	0
4/15/2024 8:05	67703	WERN_T2	0	0	0	0	0	0	-0.36	-0.35	1	1	0	900	900	0
4/15/2024 8:06	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.02	0	0	0	0	0	0
4/15/2024 8:06	67505	WEWI_T1	0	0	0	0	0	0	-0.19	-0.29	1	1	0	900	900	0
4/15/2024 8:09	46001	BERW_T1	0	0	0	0	0	0	1.29	1.62	0	0	0	0	0	0
4/15/2024 8:13	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.23	-0.21	0	0	0	0	0	0
4/15/2024 8:14	50502	MECH_T1	1	1	0	1.3	1.7	0.4	0	0	0	0	0	0	0	0
4/15/2024 8:14	12807	MICK_T1	1	1	0	1.1	1.2	0.1	0.23	0.19	0	0	0	0	0	0
4/15/2024 8:14	50501	MECH_T1	4	4	0	1.2	1.5	0.3	-1.35	0.14	0	0	0	0	0	0
4/15/2024 8:14	12802	MICK_T1	12	8	-4	0.13	0.15	0.02	0	0	0	0	0	0	0	0
4/15/2024 8:17	40101	HUNT_T2	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
4/15/2024 8:22	56802	BENV_T2	29	4	-25	0.15	0.48	0.33	-0.77	-0.75	0	0	0	0	0	0
4/15/2024 8:22	67702	WERN_T2	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
4/15/2024 8:23	56802	BENV_T2	29	4	-25	0.15	0.48	0.33	-1.5	-1.51	0	0	0	0	0	0
4/15/2024 8:23	57006	WHHI_T2	1	0	-1	0.6	0	-0.6	0.85	0.88	1	0	-1	600	0	-600
4/15/2024 8:24	56802	BENV_T2	29	4	-25	0.15	0.48	0.33	-1.5	-1.51	0	0	0	0	0	0
4/15/2024 8:24	61503	EPET_T1	0	0	0	0	0	0	-0.36	-0.33	0	0	0	0	0	0
4/15/2024 8:25	56802	BENV_T2	29	4	-25	0.15	0.48	0.33	-0.75	-0.76	0	0	0	0	0	0
4/15/2024 8:29	41502	FAIR_T2	0	0	0	0	0	0	-0.72	-0.65	0	0	0	0	0	0
4/15/2024 8:31	46503	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 8:31	46506	LOHA_T1	1	1	0	0.8	0.8	0	-0.46	-0.46	0	0	0	0	0	0
4/15/2024 8:31	46504	LOHA_T1	15	10	-5	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
4/15/2024 8:33	51204	MTON_T2	0	0	0	0	0	0	-0.75	-0.75	1	1	0	900	900	0
4/15/2024 8:33	66503	SMAN_T2	0	0	0	0	0	0	0.42	0.36	0	0	0	0	0	0
4/15/2024 8:34	66504	SMAN_T2	0	0	0	0	0	0	-1.6	-0.35	1	0	-1	1200	0	-1200
4/15/2024 8:35	51204	MTON_T2	0	0	0	0	0	0	-0.75	-0.75	1	1	0	900	900	0
4/15/2024 8:36	66504	SMAN_T2	0	0	0	0	0	0	-1.6	-0.35	1	0	-1	1200	0	-1200
4/15/2024 8:37	66504	SMAN_T2	0	0	0	0	0	0	-1.6	-0.35	1	0	-1	1200	0	-1200
4/15/2024 8:38	66504	SMAN_T2	0	0	0	0	0	0	-0.35	-0.3	1	0	-1	1200	0	-1200
4/15/2024 8:39	51603	DUKE_T1	1	2	1	0.3	0.55	0.25	-0.54	-0.52	0	0	0	0	0	0
4/15/2024 8:41	62607	ENGL_T1	0	0	0	0	0	0	-1.18	-1.14	1	1	0	300	300	0
4/15/2024 8:45	45702	LIND_T2	1	2	1	0.8	0.55	-0.25	-0.34	-0.39	0	0	0	0	0	0
4/15/2024 8:45	60501	NMAN_T2	3	3	0	4.93	5.07	0.14	0	0	0	0	0	0	0	0
4/15/2024 8:45	60502	NMAN_T2	0	0	0	0	0	0	-0.31	-0.28	0	0	0	0	0	0
4/15/2024 8:46	57304	MOAL_T2	63	67	4	0.52	0.65	0.13	0	0	0	0	0	0	0	0
4/15/2024 8:46	57303	MOAL_T2	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
4/15/2024 8:46	57301	MOAL_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/15/2024 8:46	57306	MOAL_T2	0	0	0	0	0	0	-3.32	-3.31	1	1	0	1200	1200	0
4/15/2024 8:47	60502	NMAN_T2	0	0	0	0	0	0	-0.31	-0.28	0	0	0	0	0	0
4/15/2024 8:47	52006	LING_T2	3	3	0	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
4/15/2024 8:47	60501	NMAN_T2	3	3	0	4.93	5.07	0.14	0	0	0	0	0	0	0	0
4/15/2024 8:47	52002	LING_T2	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
4/15/2024 8:47	52004	LING_T2	1	2	1	0.2	0.25	0.05	0.35	0.33	0	0	0	0	0	0
4/15/2024 8:48	57301	MOAL_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/15/2024 8:48	57304	MOAL_T2	63	67	4	0.52	0.65	0.13	0	0	0	0	0	0	0	0
4/15/2024 8:48	57303	MOAL_T2	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
4/15/2024 8:48	67001	STHI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 8:48	67002	STHI_T2	0	3	3	0	0.17	0.17	0.68	0.69	0	0	0	0	0	0
4/15/2024 8:48	57306	MOAL_T2	0	0	0	0	0	0	-9.96	-9.93	3	3	0	3600	3600	0
4/15/2024 8:50	67002	STHI_T2	0	3	3	0	0.17	0.17	1.35	1.39	0	0	0	0	0	0
4/15/2024 8:50	46302	ROHR_T1	3	8	5	2.43	1.26	-1.17	0.08	0.08	0	0	0	0	0	0
4/15/2024 8:50	46301	ROHR_T1	8	114	106	0.15	0.22	0.07	0	0	0	0	0	0	0	0
4/15/2024 8:50	67001	STHI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 8:51	67002	STHI_T2	0	3	3	0	0.17	0.17	0.68	0.69	0	0	0	0	0	0
4/15/2024 8:51	67001	STHI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 8:52	46301	ROHR_T1	8	114	106	0.15	0.22	0.07	0	0	0	0	0	0	0	0
4/15/2024 8:52	20403	ASHF_T2	5	88	83	0.3	0.24	-0.06	1.67	2.05	0	0	0	0	0	0
4/15/2024 8:52	46302	ROHR_T1	3	8	5	2.43	1.26	-1.17	0.08	0.08	0	0	0	0	0	0
4/15/2024 8:52	45902	AUBU_T1	0	0	0	0	0	0	-0.6	-0.56	1	1	0	600	600	0
4/15/2024 8:52	67002	STHI_T2	0	3	3	0	0.17	0.17	2.7	2.78	0	0	0	0	0	0
4/15/2024 8:52	67001	STHI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 8:54	67001	STHI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 8:54	67002	STHI_T2	0	3	3	0	0.17	0.17	1.39	1.46	0	0	0	0	0	0
4/15/2024 8:55	20403	ASHF_T2	5	88	83	0.3	0.24	-0.06	2.05	2.14	0	0	0	0	0	0
4/15/2024 8:58	45701	LIND_T2	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
4/15/2024 8:58	45702	LIND_T2	1	2	1	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
4/15/2024 8:59	64701	LITI_T1	0	0	0	0	0	0	0.44	0.27	0	0	0	0	0	0
4/15/2024 9:02	46504	LOHA_T1	10	9	-1	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
4/15/2024 9:02	46506	LOHA_T1	1	1	0	0.8	1	0.2	-0.47	-0.47	0	0	0	0	0	0
4/15/2024 9:03	58302	NOTT_T1	0	0	0	0	0	0	-0.27	-0.26	1	1	0	1200	1200	0
4/15/2024 9:03	57104	SPHI_T2	1	1	0	10	5.9	-4.1	0	0	0	0	0	0	0	0
4/15/2024 9:03	57103	SPHI_T2	0	0	0	0	0	0	-0.77	-0.77	2	2	0	1200	1200	0
4/15/2024 9:03	57101	SPHI_T2	6	6	0	1.28	1.25	-0.03	0	0	0	0	0	0	0	0
4/15/2024 9:05	17002	RIRO_T2	10	8	-2	0.31	0.33	0.02	0.49	0.5	0	0	0	0	0	0
4/15/2024 9:06	67803	WLAN_T1	0	0	0	0	0	0	-1.94	-1.84	0	0	0	0	0	0
4/15/2024 9:06	51305	WIND_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/15/2024 9:06	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.56	-0.56	1	1	0	600	600	0
4/15/2024 9:06	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 9:06	67804	WLAN_T1	0	0	0	0	0	0	-2.32	-2.31	0	0	0	0	0	0
4/15/2024 9:06	67801	WLAN_T1	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
4/15/2024 9:06	51301	WIND_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/15/2024 9:07	65702	RVIL_T2	0	0	0	0	0	0	-1.01	-0.97	1	1	0	600	600	0
4/15/2024 9:07	67804	WLAN_T1	0	0	0	0	0	0	-1.16	-1.15	0	0	0	0	0	0
4/15/2024 9:08	67804	WLAN_T1	0	0	0	0	0	0	-3.46	-3.46	0	0	0	0	0	0
4/15/2024 9:08	67803	WLAN_T1	0	0	0	0	0	0	-0.92	-0.92	0	0	0	0	0	0
4/15/2024 9:08	67703	WERN_T2	0	0	0	0	0	0	-0.28	-0.29	1	1	0	900	900	0
4/15/2024 9:09	51301	WIND_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/15/2024 9:09	67605	WARW_T1	12	14	2	0.48	0.65	0.17	-1.05	-1.06	0	0	0	0	0	0
4/15/2024 9:09	41503	FAIR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 9:09	67805	WLAN_T1	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
4/15/2024 9:09	51305	WIND_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/15/2024 9:09	41502	FAIR_T2	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
4/15/2024 9:09	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 9:09	67803	WLAN_T1	0	0	0	0	0	0	-1.84	-1.84	0	0	0	0	0	0
4/15/2024 9:10	67805	WLAN_T1	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
4/15/2024 9:10	15001	BLMO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 9:11	15001	BLMO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 9:11	45902	AUBU_T1	0	1	1	0	0.4	0.4	-1.12	-1.18	2	2	0	1200	1200	0
4/15/2024 9:12	15001	BLMO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 9:12	65702	RVIL_T2	0	0	0	0	0	0	-0.97	-0.94	1	1	0	600	600	0
4/15/2024 9:13	52006	LING_T2	3	3	0	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
4/15/2024 9:13	45702	LIND_T2	2	2	0	0.55	0.75	0.2	-0.38	-0.38	0	0	0	0	0	0
4/15/2024 9:13	40802	EXCH_T2	0	0	0	0	0	0	-0.16	0.09	0	0	0	0	0	0
4/15/2024 9:13	52004	LING_T2	1	1	0	0.2	0.5	0.3	0.35	0.36	0	0	0	0	0	0
4/15/2024 9:13	52002	LING_T2	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
4/15/2024 9:14	67605	WARW_T1	12	14	2	0.48	0.65	0.17	-1.05	-1.06	0	0	0	0	0	0
4/15/2024 9:14	41501	FAIR_T2	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
4/15/2024 9:14	45702	LIND_T2	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
4/15/2024 9:14	26401	INOR_T1	1	2	1	7.7	4.35	-3.35	0.63	0.48	0	0	0	0	0	0
4/15/2024 9:14	45701	LIND_T2	0	0	0	0	0	0	-1.01	-0.98	0	0	0	0	0	0
4/15/2024 9:14	41503	FAIR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 9:16	45702	LIND_T2	2	1	-1	0.55	1.3	0.75	-0.38	-0.38	0	0	0	0	0	0
4/15/2024 9:20	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 9:21	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.56	-0.59	1	1	0	600	600	0
4/15/2024 9:21	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/15/2024 9:22	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 9:24	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.59	-0.52	1	1	0	600	600	0
4/15/2024 9:24	67605	WARW_T1	12	14	2	0.57	0.67	0.1	-1.06	-1.08	0	0	0	0	0	0
4/15/2024 9:25	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.59	-0.52	1	1	0	600	600	0
4/15/2024 9:27	24901	WHHA_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/15/2024 9:27	24902	WHHA_T1	5	11	6	0.66	0.48	-0.18	0	0	0	0	0	0	0	0
4/15/2024 9:29	64702	LITI_T2	0	0	0	0	0	0	-0.56	-0.45	0	0	0	0	0	0
4/15/2024 9:29	46506	LOHA_T1	1	1	0	1	0.7	-0.3	-0.46	-0.46	0	0	0	0	0	0
4/15/2024 9:29	46504	LOHA_T1	7	6	-1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
4/15/2024 9:29	67605	WARW_T1	12	14	2	0.57	0.67	0.1	-1.06	-1.08	0	0	0	0	0	0
4/15/2024 9:30	64702	LITI_T2	0	0	0	0	0	0	-0.56	-0.45	0	0	0	0	0	0
4/15/2024 9:30	43201	MVIL_T2	2	3	1	0.65	0.37	-0.28	0	0	0	0	0	0	0	0
4/15/2024 9:30	43202	MVIL_T2	158	170	12	0.94	0.96	0.02	-0.64	-0.63	0	0	0	0	0	0
4/15/2024 9:31	46506	LOHA_T1	1	1	0	0.7	0.4	-0.3	-0.46	-0.46	0	0	0	0	0	0
4/15/2024 9:31	46504	LOHA_T1	6	9	3	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/15/2024 9:33	43202	MVIL_T2	158	170	12	0.94	0.96	0.02	0	0	0	0	0	0	0	0
4/15/2024 9:33	44601	SALE_T2	1	0	-1	0.3	0	-0.3	0.05	1.08	1	1	0	600	600	0
4/15/2024 9:33	43201	MVIL_T2	2	3	1	0.65	0.37	-0.28	-0.42	-0.4	0	0	0	0	0	0
4/15/2024 9:34	44601	SALE_T2	1	0	-1	0.3	0	-0.3	0.05	1.08	1	1	0	600	600	0
4/15/2024 9:35	67502	WEWI_T2	1	3	2	0.1	0.27	0.17	-1.32	-1.15	1	1	0	900	900	0
4/15/2024 9:37	67605	WARW_T1	13	15	2	0.68	0.67	-0.01	-1.06	-1.08	0	0	0	0	0	0
4/15/2024 9:38	67201	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 9:38	67203	TEHI_T1	0	3	3	0	0	0	2.12	2.05	2	2	0	1200	1200	0
4/15/2024 9:38	40201	BEGA_T2	3	3	0	0.4	0.67	0.27	0	0	0	0	0	0	0	0
4/15/2024 9:39	26001	WDAM_T1	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
4/15/2024 9:39	67605	WARW_T1	13	15	2	0.68	0.67	-0.01	-1.08	-1.06	0	0	0	0	0	0
4/15/2024 9:40	40201	BEGA_T2	3	3	0	0.4	0.67	0.27	0	0	0	0	0	0	0	0
4/15/2024 9:41	50105	HARR_T3	6	6	0	5.82	6.05	0.23	0	0	0	0	0	0	0	0
4/15/2024 9:41	50103	HARR_T3	2	2	0	0.6	0.6	0	-0.7	-0.73	1	1	0	1200	1200	0
4/15/2024 9:43	21606	EYNO_T1	0	0	0	0	0	0	-1.02	-0.93	1	1	0	1200	1200	0
4/15/2024 9:44	67605	WARW_T1	13	15	2	0.68	0.67	-0.01	-1.08	-1.06	0	0	0	0	0	0
4/15/2024 9:45	65503	MOJO_T2	0	2	2	0	0.3	0.3	-1.1	-1.13	1	1	0	900	900	0
4/15/2024 9:45	40201	BEGA_T2	3	5	2	0.6	0.42	-0.18	0	0	0	0	0	0	0	0
4/15/2024 9:45	65003	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/15/2024 9:45	65004	NEFF_T2	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
4/15/2024 9:48	23001	SAJO_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
4/15/2024 9:48	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 9:49	57403	SPAN_T1	8	4	-4	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/15/2024 9:49	57401	SPAN_T1	4	5	1	0.65	0.58	-0.07	-1.21	-1.21	1	1	0	600	600	0
4/15/2024 9:50	57401	SPAN_T1	4	5	1	0.65	0.58	-0.07	-1.21	-1.21	1	1	0	600	600	0
4/15/2024 9:50	23001	SAJO_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
4/15/2024 9:50	57403	SPAN_T1	8	4	-4	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/15/2024 9:50	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 9:51	57401	SPAN_T1	4	5	1	0.65	0.58	-0.07	-2.43	-2.42	2	2	0	1200	1200	0
4/15/2024 9:51	57403	SPAN_T1	8	4	-4	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/15/2024 9:52	67701	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/15/2024 9:52	59101	WALK_T2	0	0	0	0	0	0	1.21	1.91	0	0	0	0	0	0
4/15/2024 9:52	67703	WERN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/15/2024 9:52	67505	WEWI_T1	0	1	1	0	0.1	0.1	-0.15	-0.17	1	1	0	900	900	0
4/15/2024 9:52	67702	WERN_T2	0	1	1	0	0.8	0.8	-0.01	-0.03	0	0	0	0	0	0
4/15/2024 9:53	66505	SMAN_T2	0	0	0	0	0	0	0.6	0.73	2	2	0	1100	1100	0
4/15/2024 9:53	45902	AUBU_T1	1	1	0	0.3	1.2	0.9	-0.5	-0.65	1	1	0	600	600	0
4/15/2024 9:53	67701	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/15/2024 9:53	66502	SMAN_T2	1	3	2	0.2	0.57	0.37	0	0	0	0	0	0	0	0
4/15/2024 9:53	45501	DERR_T2	1	1	0	0.4	0.5	0.1	0.82	0.86	2	2	0	1800	1800	0
4/15/2024 9:53	67702	WERN_T2	0	1	1	0	0.8	0.8	-0.03	-0.01	0	0	0	0	0	0
4/15/2024 9:53	67703	WERN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/15/2024 9:53	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/15/2024 9:54	59101	WALK_T2	0	0	0	0	0	0	1.91	2.31	0	0	0	0	0	0
4/15/2024 9:54	67701	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/15/2024 9:54	67703	WERN_T2	0	2	2	0	0.35	0.35	-0.22	-0.16	1	1	0	900	900	0
4/15/2024 9:54	40201	BEGA_T2	3	5	2	0.6	0.42	-0.18	0	0	0	0	0	0	0	0
4/15/2024 9:54	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/15/2024 9:54	67702	WERN_T2	0	1	1	0	0.8	0.8	-0.03	-0.01	0	0	0	0	0	0
4/15/2024 9:54	67605	WARW_T1	14	19	5	0.6	0.67	0.07	-1.06	-1.1	0	0	0	0	0	0
4/15/2024 9:54	67605	WARW_T1	14	19	5	0.6	0.67	0.07	-1.06	-1.1	0	0	0	0	0	0
4/15/2024 9:54	67605	WARW_T1	14	19	5	0.6	0.67	0.07	-1.06	-1.1	0	0	0	0	0	0
4/15/2024 9:54	67605	WARW_T1	14	19	5	0.6	0.67	0.07	-1.06	-1.1	0	0	0	0	0	0
4/15/2024 9:55	67701	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/15/2024 9:55	67703	WERN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/15/2024 9:55	67702	WERN_T2	0	1	1	0	0.8	0.8	-0.03	-0.01	0	0	0	0	0	0
4/15/2024 9:59	67605	WARW_T1	14	19	5	0.6	0.67	0.07	-1.06	-1.1	0	0	0	0	0	0
4/15/2024 9:59	45902	AUBU_T1	1	1	0	0.3	1.2	0.9	-0.5	-0.65	1	1	0	600	600	0
4/15/2024 9:59	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/15/2024 10:00	46005	BERW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/15/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	1.08	1.14	0	0	0	0	0	0
4/15/2024 10:00	50501	MECH_T1	4	4	0	0.13	0.28	0.15	0	0	0	0	0	0	0	0
4/15/2024 10:00	66502	SMAN_T2	3	3	0	0.37	0.53	0.16	0	0	0	0	0	0	0	0
4/15/2024 10:00	63801	HEMP_T1	0	3	3	0	0.13	0.13	0.36	0.38	0	0	0	0	0	0
4/15/2024 10:00	12502	MITR_T2	1	1	0	7.1	6.7	-0.4	0	0	0	0	0	0	0	0
4/15/2024 10:00	42902	MIDD_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	-1.52	-1.53	0	0	0	0	0	0
4/15/2024 10:00	14603	SWHI_T1	2	8	6	0.3	0.58	0.28	0	0	0	0	0	0	0	0
4/15/2024 10:00	23002	SAJO_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/15/2024 10:00	23001	SAJO_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/15/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
4/15/2024 10:00	14602	SWHI_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
4/15/2024 10:00	40505	CRES_T1	3	3	0	5.97	5.77	-0.2	0.51	0.52	0	0	0	0	0	0
4/15/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
4/15/2024 10:00	44502	HAMI_T2	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
4/15/2024 10:00	60101	COCA_T1	1	0	-1	0.2	0	-0.2	0.21	0.26	0	0	0	0	0	0
4/15/2024 10:00	48302	ORWI_T2	2	2	0	1.4	1.5	0.1	0.01	0.02	0	0	0	0	0	0
4/15/2024 10:00	12501	MITR_T2	1	1	0	5.3	7.5	2.2	0	0	0	0	0	0	0	0
4/15/2024 10:00	45702	LIND_T2	1	2	1	1.2	0.85	-0.35	-0.35	-0.37	0	0	0	0	0	0
4/15/2024 10:00	10805	CHHI_T2	1	1	0	8.3	8.5	0.2	-0.49	-0.44	1	1	0	600	600	0
4/15/2024 10:00	44501	HAMI_T2	0	1	1	0	0.4	0.4	0.55	0.55	0	0	0	0	0	0
4/15/2024 10:00	50502	MECH_T1	1	1	0	1.3	1.8	0.5	0	0	0	0	0	0	0	0
4/15/2024 10:00	56601	HAMP_T1	0	0	0	0	0	0	-1.86	-1.82	0	0	0	0	0	0
4/15/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-0.42	-0.39	1	1	0	1200	1200	0
4/15/2024 10:00	14204	EALL_T2	0	2	2	0	0.3	0.3	-0.38	-0.36	0	0	0	0	0	0
4/15/2024 10:00	56504	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/15/2024 10:00	53501	EVIL_T2	2	2	0	0.2	0.7	0.5	0.09	-0.92	3	3	0	1800	1800	0
4/15/2024 10:00	15103	UPHA_T2	0	1	1	0	0.2	0.2	0.36	0.38	0	0	0	0	0	0
4/15/2024 10:00	51204	MTON_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
4/15/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-0.99	-0.94	0	0	0	0	0	0
4/15/2024 10:00	14601	SWHI_T1	0	2	2	0	0.2	0.2	-0.4	-0.36	0	0	0	0	0	0
4/15/2024 10:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 10:00	50503	MECH_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.24	-0.24	2	2	0	1500	1500	0
4/15/2024 10:00	15104	UPHA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 10:00	66302	MCGO_T2	1	427	426	0.3	0.55	0.25	-0.88	-1.09	1	1	0	600	600	0
4/15/2024 10:00	50506	MECH_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/15/2024 10:00	45501	DERR_T2	1	0	-1	0.6	0.5	-0.1	0.86	0.81	2	2	0	1800	1800	0
4/15/2024 10:00	63306	GREE_T1	0	0	0	0	0	0	-1.12	-1.1	0	0	0	0	0	0
4/15/2024 10:00	13503	MCMI_T2	1	1	0	1	1.3	0.3	-0.01	-0.01	0	0	0	0	0	0
4/15/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
4/15/2024 10:00	24104	EHAZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/15/2024 10:00	45902	AUBU_T1	1	3	2	0.8	0.67	-0.13	-0.5	-0.65	1	1	0	600	600	0
4/15/2024 10:00	46001	BERW_T1	0	1	1	0	0	0	0.8	0.8	0	0	0	0	0	0
4/15/2024 10:00	60501	NMAN_T2	3	8	5	5.3	2.36	-2.94	0	0	0	0	0	0	0	0
4/15/2024 10:00	66301	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 10:00	65702	RVIL_T2	0	0	0	0	0	0	-0.94	-0.91	1	1	0	600	600	0
4/15/2024 10:00	64903	MILL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 10:00	64802	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 10:00	45602	WOOL_T1	0	0	0	0	0	0	0.98	0.98	0	0	0	0	0	0
4/15/2024 10:00	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.2	-0.14	0	0	0	0	0	0
4/15/2024 10:00	24101	EHAZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 10:00	57104	SPHI_T2	1	1	0	1.6	0	-1.6	-0.1	-1.09	1	1	0	900	900	0
4/15/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-0.65	-0.61	1	1	0	900	900	0
4/15/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	-0.37	-0.34	2	2	0	1200	1200	0
4/15/2024 10:00	63804	HEMP_T1	1	1	0	7.1	7	-0.1	0	0	0	0	0	0	0	0
4/15/2024 10:00	64801	MONE_T2	1	2	1	0.6	0.45	-0.15	0.16	0.22	0	0	0	0	0	0
4/15/2024 10:00	66501	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/15/2024 10:00	62101	ELAN_T1	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
4/15/2024 10:00	12803	MICK_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/15/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.31	-0.18	1	1	0	600	600	0
4/15/2024 10:00	12807	MICK_T1	1	1	0	0.6	0.6	0	0.22	0.19	0	0	0	0	0	0
4/15/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.07	-0.08	1	1	0	1200	1200	0
4/15/2024 10:00	58102	NEXI_T1	2	2	0	0.9	1	0.1	-1.04	-0.98	1	1	0	1200	1200	0
4/15/2024 10:00	12505	MITR_T2	0	1	1	0	0.3	0.3	2.91	1.92	0	0	0	0	0	0
4/15/2024 10:00	24105	EHAZ_T1	4	4	0	6.23	6.13	-0.1	-0.73	-0.71	1	1	0	1200	1200	0
4/15/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
4/15/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	-0.33	-0.43	2	2	0	1200	1200	0
4/15/2024 10:00	57101	SPHI_T2	6	6	0	0.53	0.55	0.02	0	0	0	0	0	0	0	0
4/15/2024 10:00	60801	BUCK_T1	0	1	1	0	0.1	0.1	-0.51	-0.47	1	1	0	600	600	0
4/15/2024 10:00	60504	NMAN_T2	1	2	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/15/2024 10:00	66505	SMAN_T2	0	0	0	0	0	0	0.6	0.73	2	2	0	1100	1100	0
4/15/2024 10:00	50505	MECH_T1	0	0	0	0	0	0	-0.88	-0.85	0	0	0	0	0	0
4/15/2024 10:00	16101	BING_T2	1	1	0	9.8	9.9	0.1	0.31	0.32	0	0	0	0	0	0
4/15/2024 10:00	16103	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 10:00	42903	MIDD_T2	0	2	2	0	1.05	1.05	1.42	0.35	0	1	1	0	1200	1200
4/15/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.06	0.03	0	0	0	0	0	0
4/15/2024 10:00	63803	HEMP_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/15/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.21	1.36	0	0	0	0	0	0
4/15/2024 10:00	66303	MCGO_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/15/2024 10:00	67502	WEWI_T2	2	7	5	0.3	0.29	-0.01	-1.33	-1.21	1	1	0	900	900	0
4/15/2024 10:00	56501	ROCK_T2	2	3	1	0.4	0.5	0.1	-0.01	-0.01	0	0	0	0	0	0
4/15/2024 10:00	22102	EDEL_T1	0	0	0	0	0	0	-0.45	-0.77	1	1	0	1200	1200	0
4/15/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.37	0.37	1	1	0	600	600	0
4/15/2024 10:00	66504	SMAN_T2	0	1	1	0	0.5	0.5	-0.68	-0.41	0	0	0	0	0	0
4/15/2024 10:00	42901	MIDD_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 10:00	40201	BEGA_T2	3	5	2	0.4	0.68	0.28	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/15/2024 10:00	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 10:00	58003	WCAR_T1	0	0	0	0	0	0	0.1	0.11	1	1	0	600	600	0
4/15/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.05	0.09	1	1	0	600	600	0
4/15/2024 10:06	51002	NHAR_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/15/2024 10:06	51004	NHAR_T1	13	13	0	1	1.03	0.03	0	0	0	0	0	0	0	0
4/15/2024 10:06	53802	MBRG_T2	0	0	0	0	0	0	0.57	0.48	0	0	0	0	0	0
4/15/2024 10:06	52001	LING_T1	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
4/15/2024 10:06	39601	LNFD_T1	0	1	1	0	0.2	0.2	0	0	1	1	0	900	900	0
4/15/2024 10:06	60801	BUCK_T1	0	1	1	0	0.1	0.1	-0.51	-0.47	1	1	0	600	600	0
4/15/2024 10:07	66502	SMAN_T2	3	3	0	0.37	0.53	0.16	0	0	0	0	0	0	0	0
4/15/2024 10:07	16103	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 10:07	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 10:07	66501	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/15/2024 10:07	45902	AUBU_T1	1	3	2	0.8	0.67	-0.13	-0.5	-0.65	1	1	0	600	600	0
4/15/2024 10:07	58803	COCO_T1	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
4/15/2024 10:07	54602	SUMM_T2	0	0	0	0	0	0	-2.39	-2.42	1	1	0	600	600	0
4/15/2024 10:07	66504	SMAN_T2	0	1	1	0	0.5	0.5	-0.23	-0.14	0	0	0	0	0	0
4/15/2024 10:07	54601	SUMM_T2	11	10	-1	0.3	0.37	0.07	0	0	0	0	0	0	0	0
4/15/2024 10:07	54001	SDLE_T1	1	8	7	0.4	0.49	0.09	0	0	0	0	0	0	0	0
4/15/2024 10:07	16101	BING_T2	1	1	0	9.8	9.9	0.1	0	0	0	0	0	0	0	0
4/15/2024 10:07	10801	CHHI_T1	5	8	3	0.5	0.53	0.03	-0.61	-0.68	1	1	0	900	900	0
4/15/2024 10:07	40101	HUNT_T2	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
4/15/2024 10:07	16102	BING_T2	0	1	1	0	0.2	0.2	0.08	0.11	0	0	0	0	0	0
4/15/2024 10:08	12604	MACA_T1	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
4/15/2024 10:08	66503	SMAN_T2	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
4/15/2024 10:08	67701	WERN_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/15/2024 10:08	67703	WERN_T2	2	2	0	0.1	0.45	0.35	-0.32	-0.4	2	2	0	1800	1800	0
4/15/2024 10:08	12602	MACA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 10:08	17002	RIRO_T2	2	6	4	0.4	0.65	0.25	0.44	0.51	0	0	0	0	0	0
4/15/2024 10:08	66501	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/15/2024 10:08	45902	AUBU_T1	1	3	2	0.8	0.67	-0.13	-0.65	-0.64	1	1	0	600	600	0
4/15/2024 10:08	67402	WAKE_T2	0	0	0	0	0	0	0.37	0.38	1	1	0	600	600	0
4/15/2024 10:08	67605	WARW_T1	15	19	4	0.65	0.73	0.08	0	0	0	0	0	0	0	0
4/15/2024 10:08	12605	MACA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/15/2024 10:08	66504	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/15/2024 10:08	64302	LINC_T2	0	0	0	0	0	0	1.05	1.17	0	0	0	0	0	0
4/15/2024 10:08	10801	CHHI_T1	5	8	3	0.5	0.53	0.03	-0.61	-0.68	1	1	0	900	900	0
4/15/2024 10:08	12601	MACA_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/15/2024 10:08	46004	BERW_T2	0	0	0	0	0	0	-0.2	-0.15	0	0	0	0	0	0
4/15/2024 10:08	67702	WERN_T2	1	2	1	0.5	0.5	0	-0.01	-0.05	0	0	0	0	0	0
4/15/2024 10:08	66502	SMAN_T2	3	3	0	0.37	0.53	0.16	0	0	0	0	0	0	0	0
4/15/2024 10:08	25603	ARRO_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
4/15/2024 10:08	67603	WARW_T1	0	2	2	0	0.2	0.2	-0.02	0.04	0	0	0	0	0	0
4/15/2024 10:09	67603	WARW_T1	0	2	2	0	0.2	0.2	-0.02	0.04	0	0	0	0	0	0
4/15/2024 10:09	67703	WERN_T2	2	2	0	0.1	0.45	0.35	-0.16	-0.2	1	1	0	900	900	0
4/15/2024 10:09	45901	AUBU_T1	0	0	0	0	0	0	2	1.94	0	0	0	0	0	0
4/15/2024 10:09	45902	AUBU_T1	1	3	2	0.8	0.67	-0.13	-0.65	-0.64	1	1	0	600	600	0
4/15/2024 10:09	15001	BLMO_T1	4	8	4	0.28	0.35	0.07	0	0	0	0	0	0	0	0
4/15/2024 10:09	67701	WERN_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/15/2024 10:09	67605	WARW_T1	15	19	4	0.65	0.73	0.08	0	0	0	0	0	0	0	0
4/15/2024 10:09	67702	WERN_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
4/15/2024 10:10	15001	BLMO_T1	4	8	4	0.28	0.35	0.07	0	0	0	0	0	0	0	0
4/15/2024 10:10	67701	WERN_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/15/2024 10:10	67702	WERN_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
4/15/2024 10:10	67703	WERN_T2	2	2	0	0.1	0.45	0.35	-0.16	-0.2	1	1	0	900	900	0
4/15/2024 10:11	67703	WERN_T2	2	2	0	0.1	0.45	0.35	0	0	0	0	0	0	0	0
4/15/2024 10:11	10801	CHHI_T1	5	8	3	0.5	0.53	0.03	-0.68	-0.75	1	1	0	900	900	0
4/15/2024 10:11	45902	AUBU_T1	1	3	2	0.8	0.67	-0.13	-0.65	-0.64	1	1	0	600	600	0
4/15/2024 10:11	59101	WALK_T2	0	0	0	0	0	0	2.31	2.35	0	0	0	0	0	0
4/15/2024 10:11	67701	WERN_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/15/2024 10:11	41301	FISH_T1	4	4	0	1.75	1.83	0.08	-0.06	-0.05	0	0	0	0	0	0
4/15/2024 10:11	67702	WERN_T2	1	2	1	0.5	0.5	0	-0.01	-0.05	0	0	0	0	0	0
4/15/2024 10:13	45501	DERR_T2	1	1	0	0.6	0.5	-0.1	0.81	0.96	2	2	0	1800	1800	0
4/15/2024 10:13	41301	FISH_T1	4	4	0	1.75	1.83	0.08	-0.06	-0.05	0	0	0	0	0	0
4/15/2024 10:15	45702	LIND_T2	2	2	0	0.75	0.9	0.15	-0.37	-0.37	0	0	0	0	0	0
4/15/2024 10:15	24901	WHHA_T1	2	4	2	0.4	0.4	0	0	0	0	0	0	0	0	0
4/15/2024 10:15	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/15/2024 10:15	24902	WHHA_T1	2	67	65	1.4	0.64	-0.76	0	0	0	0	0	0	0	0
4/15/2024 10:15	13502	MCMI_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/15/2024 10:16	13502	MCMI_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/15/2024 10:16	45702	LIND_T2	2	2	0	0.75	0.9	0.15	-0.37	-0.37	0	0	0	0	0	0
4/15/2024 10:16	24901	WHHA_T1	2	4	2	0.4	0.4	0	0	0	0	0	0	0	0	0
4/15/2024 10:16	24902	WHHA_T1	2	67	65	1.4	0.64	-0.76	0	0	0	0	0	0	0	0
4/15/2024 10:16	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/15/2024 10:17	65503	MOJO_T2	2	2	0	0.3	0.4	0.1	-1.05	-1.02	1	1	0	900	900	0
4/15/2024 10:17	45701	LIND_T2	0	0	0	0	0	0	-0.97	-0.97	0	0	0	0	0	0
4/15/2024 10:17	45702	LIND_T2	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
4/15/2024 10:18	65503	MOJO_T2	2	2	0	0.3	0.4	0.1	-1.05	-1.02	1	1	0	900	900	0
4/15/2024 10:18	44601	SALE_T2	0	0	0	0	0	0	-0.12	1.16	1	1	0	600	600	0
4/15/2024 10:19	13502	MCMI_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/15/2024 10:19	52501	PROG_T1	0	0	0	0	0	0	0.58	0.58	1	1	0	300	300	0
4/15/2024 10:19	65503	MOJO_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/15/2024 10:19	65502	MOJO_T2	0	0	0	0	0	0	0.07	0.18	0	0	0	0	0	0
4/15/2024 10:19	52502	PROG_T2	0	2	2	0	0.2	0.2	-0.75	-0.74	1	1	0	900	900	0
4/15/2024 10:19	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/15/2024 10:20	67203	TEHI_T1	2	2	0	0.4	0	-0.4	2.11	2.25	2	2	0	1200	1200	0
4/15/2024 10:20	51204	MTON_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
4/15/2024 10:20	67201	TEHI_T1	8	7	-1	0.41	0.23	-0.18	0	0	0	0	0	0	0	0
4/15/2024 10:21	57403	SPAN_T1	2	17	15	0.15	0.22	0.07	0	0	0	0	0	0	0	0
4/15/2024 10:21	57401	SPAN_T1	4	5	1	0.58	0.7	0.12	-2.4	-2.27	2	2	0	1200	1200	0
4/15/2024 10:21	42701	AUGU_T1	2	3	1	0.7	0.63	-0.07	0	0	2	2	0	1800	1800	0
4/15/2024 10:21	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 10:21	45701	LIND_T2	0	0	0	0	0	0	-0.97	-0.97	0	0	0	0	0	0
4/15/2024 10:21	40302	TAMA_T3	27	22	-5	0.37	0.39	0.02	0.32	0.52	0	0	0	0	0	0
4/15/2024 10:21	57002	WHHI_T2	0	0	0	0	0	0	-1.3	-1.29	1	1	0	1200	1200	0
4/15/2024 10:21	57006	WHHI_T2	1	2	1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/15/2024 10:21	52501	PROG_T1	0	0	0	0	0	0	1.15	1.17	2	2	0	600	600	0
4/15/2024 10:21	45702	LIND_T2	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
4/15/2024 10:21	57104	SPHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 10:21	57101	SPHI_T2	6	6	0	0.3	0.62	0.32	0	0	0	0	0	0	0	0
4/15/2024 10:21	57003	WHHI_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/15/2024 10:21	57103	SPHI_T2	0	1	1	0	0.1	0.1	-0.31	-0.31	1	1	0	600	600	0
4/15/2024 10:21	40303	TAMA_T3	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
4/15/2024 10:22	57401	SPAN_T1	4	5	1	0.58	0.7	0.12	0	0	0	0	0	0	0	0
4/15/2024 10:22	42701	AUGU_T1	2	3	1	0.7	0.63	-0.07	0	0	2	2	0	1800	1800	0
4/15/2024 10:22	40201	BEGA_T2	4	6	2	0.35	0.72	0.37	0	0	0	0	0	0	0	0
4/15/2024 10:22	16301	ALPA_T1	3	4	1	0.43	0.35	-0.08	-0.66	-0.66	0	0	0	0	0	0
4/15/2024 10:22	57403	SPAN_T1	2	17	15	0.15	0.22	0.07	-0.06	-0.06	0	0	0	0	0	0
4/15/2024 10:23	67702	WERN_T2	1	2	1	0.8	0.6	-0.2	-0.05	-0.05	0	0	0	0	0	0
4/15/2024 10:23	57401	SPAN_T1	4	5	1	0.58	0.7	0.12	-2.27	-2.21	2	2	0	1200	1200	0
4/15/2024 10:23	67701	WERN_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/15/2024 10:23	57403	SPAN_T1	2	17	15	0.15	0.22	0.07	0	0	0	0	0	0	0	0
4/15/2024 10:23	67703	WERN_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
4/15/2024 10:24	67605	WARW_T1	19	19	0	0.66	0.75	0.09	-1.08	-1.06	0	0	0	0	0	0
4/15/2024 10:24	57401	SPAN_T1	4	5	1	0.58	0.7	0.12	0	0	0	0	0	0	0	0
4/15/2024 10:24	67703	WERN_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
4/15/2024 10:24	57403	SPAN_T1	2	17	15	0.15	0.22	0.07	-0.06	-0.06	0	0	0	0	0	0
4/15/2024 10:24	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 10:24	67603	WARW_T1	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
4/15/2024 10:24	67701	WERN_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/15/2024 10:24	45501	DERR_T2	1	1	0	0.5	0.7	0.2	0.96	0.9	2	2	0	1800	1800	0
4/15/2024 10:24	67702	WERN_T2	1	2	1	0.8	0.6	-0.2	-0.05	-0.05	0	0	0	0	0	0
4/15/2024 10:25	67603	WARW_T1	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
4/15/2024 10:25	67605	WARW_T1	19	19	0	0.66	0.75	0.09	-2.17	-1.06	0	0	0	0	0	0
4/15/2024 10:25	67605	WARW_T1	19	19	0	0.66	0.75	0.09	-2.17	-2.13	0	0	0	0	0	0
4/15/2024 10:25	67605	WARW_T1	19	19	0	0.66	0.75	0.09	-1.08	-1.06	0	0	0	0	0	0
4/15/2024 10:25	67605	WARW_T1	19	19	0	0.66	0.75	0.09	-1.08	-2.13	0	0	0	0	0	0
4/15/2024 10:25	40201	BEGA_T2	4	6	2	0.35	0.72	0.37	0	0	0	0	0	0	0	0
4/15/2024 10:26	67703	WERN_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
4/15/2024 10:26	67701	WERN_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/15/2024 10:26	26001	WDAM_T1	0	0	0	0	0	0	-0.8	-0.84	0	0	0	0	0	0
4/15/2024 10:26	26002	WDAM_T1	2	1	-1	0.55	1	0.45	0	0	0	0	0	0	0	0
4/15/2024 10:26	60801	BUCK_T1	0	1	1	0	0.1	0.1	-0.47	-0.47	1	1	0	600	600	0
4/15/2024 10:26	67702	WERN_T2	1	2	1	0.8	0.6	-0.2	-0.05	-0.05	0	0	0	0	0	0
4/15/2024 10:27	41502	FAIR_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/15/2024 10:27	67701	WERN_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/15/2024 10:27	41501	FAIR_T2	0	0	0	0	0	0	-0.23	-0.27	0	0	0	0	0	0
4/15/2024 10:27	67703	WERN_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
4/15/2024 10:27	67702	WERN_T2	1	2	1	0.8	0.6	-0.2	-0.05	-0.05	0	0	0	0	0	0
4/15/2024 10:29	41502	FAIR_T2	1	1	0	0.2	0.1	-0.1	-0.69	-0.68	0	0	0	0	0	0
4/15/2024 10:29	59301	MCAL_T1	3	5	2	0.5	0.56	0.06	-1.48	-1.42	1	1	0	600	600	0
4/15/2024 10:31	22602	KIMB_T1	1	1	0	0.2	0.1	-0.1	0.34	0.32	0	0	0	0	0	0
4/15/2024 10:31	22601	KIMB_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/15/2024 10:31	64704	LITI_T1	0	0	0	0	0	0	0.33	0.55	1	1	0	600	600	0
4/15/2024 10:32	13103	NHAM_T2	0	0	0	0	0	0	-1.71	-1.72	1	1	0	600	600	0
4/15/2024 10:33	64704	LITI_T1	0	0	0	0	0	0	0.33	0.55	1	1	0	600	600	0
4/15/2024 10:35	42901	MIDD_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/15/2024 10:35	42903	MIDD_T2	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
4/15/2024 10:35	60502	NMAN_T2	0	0	0	0	0	0	-0.1	-0.01	0	0	0	0	0	0
4/15/2024 10:35	60501	NMAN_T2	7	4	-3	2.69	4.3	1.61	0	0	0	0	0	0	0	0
4/15/2024 10:35	60504	NMAN_T2	2	3	1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/15/2024 10:35	42902	MIDD_T2	2	7	5	0.2	0.45	0.25	-0.63	-0.67	0	0	0	0	0	0
4/15/2024 10:36	15601	NSTR_T2	5	5	0	0.56	0.78	0.22	0	0	0	0	0	0	0	0
4/15/2024 10:36	52502	PROG_T2	2	4	2	0.2	0.38	0.18	-0.74	-0.74	1	1	0	900	900	0
4/15/2024 10:36	15603	NSTR_T2	2	3	1	0.4	0.4	0	-0.63	-0.65	0	0	0	0	0	0
4/15/2024 10:36	44601	SALE_T2	0	0	0	0	0	0	1.16	0.28	1	1	0	600	600	0
4/15/2024 10:36	42901	MIDD_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/15/2024 10:36	44201	POIN_T1	0	0	0	0	0	0	-1.54	-1.17	2	2	0	2100	2100	0
4/15/2024 10:36	42902	MIDD_T2	2	7	5	0.2	0.45	0.25	-0.63	-0.67	0	0	0	0	0	0
4/15/2024 10:36	42903	MIDD_T2	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
4/15/2024 10:37	44601	SALE_T2	0	0	0	0	0	0	1.16	0.28	1	1	0	600	600	0
4/15/2024 10:39	64101	REFR_T1	0	0	0	0	0	0	-0.75	-0.69	0	0	0	0	0	0
4/15/2024 10:40	41601	CLEV_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/15/2024 10:40	41602	CLEV_T1	2	1	-1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/15/2024 10:41	41601	CLEV_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/15/2024 10:41	41602	CLEV_T1	2	1	-1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/15/2024 10:42	41601	CLEV_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/15/2024 10:42	41602	CLEV_T1	2	1	-1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/15/2024 10:43	26401	INOR_T1	2	3	1	4.2	3.13	-1.07	0.77	0.68	0	0	0	0	0	0
4/15/2024 10:44	41502	FAIR_T2	0	3	3	0	0.27	0.27	-0.68	-0.67	0	0	0	0	0	0
4/15/2024 10:44	45801	HEGI_T1	0	0	0	0	0	0	-0.03	-0.02	1	1	0	900	900	0
4/15/2024 10:44	65205	PRIN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/15/2024 10:45	46802	HEPB_T1	1	4	3	1.3	0.58	-0.72	-0.25	-0.3	0	0	0	0	0	0
4/15/2024 10:49	44504	HAMI_T2	0	0	0	0	0	0	-0.99	-1.01	0	0	0	0	0	0
4/15/2024 10:49	66504	SMAN_T2	1	2	1	0.3	0.45	0.15	-0.38	-0.39	0	0	0	0	0	0
4/15/2024 10:49	44502	HAMI_T2	1	2	1	2.9	1.65	-1.25	0	0	0	0	0	0	0	0
4/15/2024 10:49	44505	HAMI_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
4/15/2024 10:49	66501	SMAN_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
4/15/2024 10:49	66502	SMAN_T2	2	4	2	0.55	0.48	-0.07	0	0	0	0	0	0	0	0
4/15/2024 10:51	66501	SMAN_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
4/15/2024 10:51	66502	SMAN_T2	2	4	2	0.55	0.48	-0.07	0.34	0.32	0	0	0	0	0	0
4/15/2024 10:51	66504	SMAN_T2	1	2	1	0.3	0.45	0.15	-0.19	-0.19	0	0	0	0	0	0
4/15/2024 10:51	67505	WEWI_T1	1	1	0	0.1	0.2	0.1	-0.1	-0.01	1	1	0	900	900	0
4/15/2024 10:51	67501	WEWI_T1	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
4/15/2024 10:52	66701	STRA_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
4/15/2024 10:52	66703	STRA_T1	0	0	0	0	0	0	-0.14	-0.09	0	0	0	0	0	0
4/15/2024 10:52	66501	SMAN_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
4/15/2024 10:52	66504	SMAN_T2	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/15/2024 10:52	57401	SPAN_T1	4	4	0	0.68	0.7	0.02	-1.1	-1.12	1	1	0	600	600	0
4/15/2024 10:52	57403	SPAN_T1	8	11	3	0.23	0.31	0.08	0	0	0	0	0	0	0	0
4/15/2024 10:52	66502	SMAN_T2	2	4	2	0.55	0.48	-0.07	0.34	0.32	0	0	0	0	0	0
4/15/2024 10:53	55105	WERT_T1	0	1	1	0	0	0	0	0	1	1	0	900	900	0
4/15/2024 10:53	66501	SMAN_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
4/15/2024 10:53	59101	WALK_T2	1	1	0	0.1	0.1	0	2.24	2.07	0	0	0	0	0	0
4/15/2024 10:53	66701	STRA_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
4/15/2024 10:53	66502	SMAN_T2	2	4	2	0.55	0.48	-0.07	0	0	0	0	0	0	0	0
4/15/2024 10:53	66504	SMAN_T2	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/15/2024 10:53	66505	SMAN_T2	0	0	0	0	0	0	1.21	1.68	4	4	0	2200	2200	0
4/15/2024 10:53	66703	STRA_T1	0	0	0	0	0	0	-0.09	-0.03	0	0	0	0	0	0
4/15/2024 10:54	67501	WEWI_T1	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
4/15/2024 10:54	67505	WEWI_T1	1	1	0	0.1	0.2	0.1	-0.01	-0.11	1	1	0	900	900	0
4/15/2024 10:55	62102	ELAN_T1	0	0	0	0	0	0	-0.66	-0.53	0	0	0	0	0	0
4/15/2024 10:55	62101	ELAN_T1	1	1	0	2.8	2.5	-0.3	0	0	0	0	0	0	0	0
4/15/2024 10:56	14204	EALL_T2	3	4	1	0.23	0.38	0.15	-0.39	-0.42	0	0	0	0	0	0
4/15/2024 10:56	42902	MIDD_T2	2	14	12	0.4	0.43	0.03	-0.66	-0.67	0	0	0	0	0	0
4/15/2024 10:56	42903	MIDD_T2	2	2	0	1.25	1.4	0.15	0	0	0	0	0	0	0	0
4/15/2024 10:56	11507	FREE_T2	0	0	0	0	0	0	1.09	1.12	0	0	0	0	0	0
4/15/2024 10:56	42901	MIDD_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/15/2024 10:58	41801	GOCI_T2	3	74	71	0.33	0.24	-0.09	0	0	0	0	0	0	0	0
4/15/2024 10:58	12602	MACA_T1	1	1	0	0.4	0.2	-0.2	-0.94	-1.05	0	0	0	0	0	0
4/15/2024 10:58	12604	MACA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/15/2024 10:58	45502	DERR_T2	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
4/15/2024 10:58	12601	MACA_T1	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
4/15/2024 10:58	12605	MACA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/15/2024 10:58	45501	DERR_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/15/2024 10:59	23202	HIRU_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
4/15/2024 10:59	25402	LAHA_T2	2	3	1	0.15	0.15	0	-0.5	-0.41	0	0	0	0	0	0
4/15/2024 10:59	25404	LAHA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/15/2024 11:00	41801	GOCI_T2	10	82	72	0.22	0.24	0.02	0	0	0	0	0	0	0	0
4/15/2024 11:00	46506	LOHA_T1	0	1	1	0	0.7	0.7	-0.47	-0.48	0	0	0	0	0	0
4/15/2024 11:00	46504	LOHA_T1	2	2	0	0.85	1.35	0.5	0	0	0	0	0	0	0	0
4/15/2024 11:01	55001	NEWP_T1	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/15/2024 11:01	55002	NEWP_T1	12	9	-3	0.79	1.12	0.33	-0.21	-0.23	0	0	0	0	0	0
4/15/2024 11:02	64802	MONE_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/15/2024 11:02	55003	NEWP_T2	7	8	1	0.39	0.36	-0.03	-0.08	-0.08	0	0	0	0	0	0
4/15/2024 11:02	57303	MOAL_T2	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
4/15/2024 11:02	57301	MOAL_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
4/15/2024 11:02	57304	MOAL_T2	25	41	16	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
4/15/2024 11:02	64801	MONE_T2	3	3	0	0.3	0.33	0.03	0.25	0.25	0	0	0	0	0	0
4/15/2024 11:03	55002	NEWP_T1	12	9	-3	0.79	1.12	0.33	-0.63	-0.69	0	0	0	0	0	0
4/15/2024 11:03	46302	ROHR_T1	105	83	-22	0.38	0.35	-0.03	0.14	0.09	0	0	0	0	0	0
4/15/2024 11:03	65901	SAKR_T2	1	1	0	8.5	8.2	-0.3	-1.04	-0.73	1	1	0	900	900	0
4/15/2024 11:03	55001	NEWP_T1	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/15/2024 11:03	46301	ROHR_T1	200	201	1	0.7	0.59	-0.11	0	0	0	0	0	0	0	0
4/15/2024 11:04	64802	MONE_T2	0	2	2	0	0.15	0.15	0.22	0.28	0	0	0	0	0	0
4/15/2024 11:04	64801	MONE_T2	3	3	0	0.3	0.33	0.03	0	0	0	0	0	0	0	0
4/15/2024 11:04	55001	NEWP_T1	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/15/2024 11:04	52502	PROG_T2	4	2	-2	0.38	0.15	-0.23	-0.72	-0.72	1	1	0	900	900	0
4/15/2024 11:04	13103	NHAM_T2	0	0	0	0	0	0	-1.71	-1.72	1	1	0	600	600	0
4/15/2024 11:04	55002	NEWP_T1	12	9	-3	0.79	1.12	0.33	-0.21	-0.23	0	0	0	0	0	0
4/15/2024 11:05	44505	HAMI_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
4/15/2024 11:05	46301	ROHR_T1	200	201	1	0.7	0.59	-0.11	0.15	0.17	0	0	0	0	0	0
4/15/2024 11:05	44502	HAMI_T2	1	3	2	3	1.2	-1.8	-0.91	-0.87	0	0	0	0	0	0
4/15/2024 11:05	46302	ROHR_T1	105	83	-22	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
4/15/2024 11:05	52502	PROG_T2	4	2	-2	0.38	0.15	-0.23	-1.44	-1.44	2	2	0	1800	1800	0
4/15/2024 11:06	26002	WDAM_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/15/2024 11:06	42201	SHEN_T2	0	1	1	0	0.2	0.2	0.04	0.02	1	1	0	600	600	0
4/15/2024 11:06	26001	WDAM_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
4/15/2024 11:07	46302	ROHR_T1	105	83	-22	0.38	0.35	-0.03	0.14	0.09	0	0	0	0	0	0
4/15/2024 11:07	46301	ROHR_T1	200	201	1	0.7	0.59	-0.11	0	0	0	0	0	0	0	0
4/15/2024 11:07	42201	SHEN_T2	0	1	1	0	0.2	0.2	0.04	0.02	1	1	0	600	600	0
4/15/2024 11:08	42201	SHEN_T2	0	1	1	0	0.2	0.2	0.02	0.03	1	1	0	600	600	0
4/15/2024 11:09	20401	ASHF_T2	1	2	1	0.4	0.4	0	-0.25	-0.23	0	0	0	0	0	0
4/15/2024 11:09	20403	ASHF_T2	5	9	4	0.38	0.69	0.31	0	0	0	0	0	0	0	0
4/15/2024 11:09	20402	ASHF_T2	2	1	-1	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
4/15/2024 11:09	46203	DANV_T2	83	44	-39	0.26	0.29	0.03	0.24	0.4	0	0	0	0	0	0
4/15/2024 11:10	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 11:11	10801	CHHI_T1	7	8	1	0.64	0.59	-0.05	-0.61	-0.62	1	1	0	900	900	0
4/15/2024 11:11	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	900
4/15/2024 11:11	15001	BLMO_T1	6	5	-1	0.22	0.32	0.1	0	0	0	0	0	0	0	0
4/15/2024 11:11	65205	PRIN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/15/2024 11:12	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 11:12	47202	FAXO_T2	0	0	0	0	0	0	-2.33	-2.33	0	0	0	0	0	0
4/15/2024 11:13	67605	WARW_T1	25	26	1	0.66	0.67	0.01	-1	-1.07	0	0	0	0	0	0
4/15/2024 11:13	67603	WARW_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/15/2024 11:15	28703	HAML_T2	0	3	3	0	0.53	0.53	0	0	0	0	0	0	0	0
4/15/2024 11:15	46302	ROHR_T1	70	91	21	0.35	0.38	0.03	0	0	0	0	0	0	0	0
4/15/2024 11:15	28701	HAML_T2	3	2	-1	0.37	0.85	0.48	0	0	0	0	0	0	0	0
4/15/2024 11:15	28704	HAML_T2	1	1	0	0.4	0.8	0.4	-0.01	-0.01	0	0	0	0	0	0
4/15/2024 11:15	46301	ROHR_T1	229	243	14	0.52	0.55	0.03	0.17	0.17	0	0	0	0	0	0
4/15/2024 11:18	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/15/2024 11:18	67605	WARW_T1	21	26	5	0.7	0.63	-0.07	-1	-1.07	0	0	0	0	0	0
4/15/2024 11:21	42902	MIDD_T2	13	28	15	0.42	0.46	0.04	-0.67	-0.66	0	0	0	0	0	0
4/15/2024 11:21	42901	MIDD_T2	2	3	1	0.15	0.5	0.35	0	0	0	0	0	0	0	0
4/15/2024 11:21	42903	MIDD_T2	2	3	1	1.4	1.33	-0.07	0	0	0	0	0	0	0	0
4/15/2024 11:22	20403	ASHF_T2	1	19	18	0.6	0.41	-0.19	0.02	-0.17	0	0	0	0	0	0
4/15/2024 11:22	20401	ASHF_T2	1	2	1	1.5	0	-1.5	0	0	0	0	0	0	0	0
4/15/2024 11:22	20402	ASHF_T2	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/15/2024 11:23	67605	WARW_T1	21	26	5	0.7	0.63	-0.07	-1.07	-1.01	0	0	0	0	0	0
4/15/2024 11:23	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/15/2024 11:23	66703	STRA_T1	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
4/15/2024 11:23	66701	STRA_T1	1	2	1	1.6	0.85	-0.75	0	0	0	0	0	0	0	0
4/15/2024 11:23	66502	SMAN_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
4/15/2024 11:23	45902	AUBU_T1	0	0	0	0	0	0	-0.56	-0.58	1	1	0	600	600	0
4/15/2024 11:23	66504	SMAN_T2	2	1	-1	0.15	0.5	0.35	0	0	0	0	0	0	0	0
4/15/2024 11:23	66501	SMAN_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
4/15/2024 11:23	66503	SMAN_T2	0	0	0	0	0	0	0.48	0.52	0	0	0	0	0	0
4/15/2024 11:24	22003	BOHE_T1	3	3	0	1.7	1.63	-0.07	0	0	0	0	0	0	0	0
4/15/2024 11:24	22001	BOHE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 11:24	20401	ASHF_T2	1	2	1	1.5	0	-1.5	0	0	0	0	0	0	0	0
4/15/2024 11:24	20403	ASHF_T2	1	19	18	0.6	0.41	-0.19	-0.17	-0.4	0	0	0	0	0	0
4/15/2024 11:24	20402	ASHF_T2	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/15/2024 11:26	46002	BERW_T2	0	1	1	0	0.3	0.3	-0.6	-0.53	1	1	0	900	900	0
4/15/2024 11:26	42902	MIDD_T2	13	28	15	0.42	0.46	0.04	-0.66	-0.65	0	0	0	0	0	0
4/15/2024 11:26	46004	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 11:26	42901	MIDD_T2	2	3	1	0.15	0.5	0.35	0	0	0	0	0	0	0	0
4/15/2024 11:26	42903	MIDD_T2	2	3	1	1.4	1.33	-0.07	0	0	0	0	0	0	0	0
4/15/2024 11:26	46003	BERW_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/15/2024 11:27	11507	FREE_T2	0	0	0	0	0	0	1.01	1.08	0	0	0	0	0	0
4/15/2024 11:28	67605	WARW_T1	21	26	5	0.7	0.63	-0.07	-1.07	-1.01	0	0	0	0	0	0
4/15/2024 11:28	45902	AUBU_T1	0	0	0	0	0	0	-0.56	-0.58	1	1	0	600	600	0
4/15/2024 11:28	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/15/2024 11:30	46504	LOHA_T1	2	37	35	1.35	0.35	-1	0	0	0	0	0	0	0	0
4/15/2024 11:30	41202	KENM_T2	1	1	0	0.5	0.3	-0.2	0.51	0.53	0	0	0	0	0	0
4/15/2024 11:30	46506	LOHA_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
4/15/2024 11:30	46501	LOHA_T1	0	0	0	0	0	0	-0.05	-0.02	1	1	0	1200	1200	0
4/15/2024 11:31	13502	MCMI_T1	1	3	2	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
4/15/2024 11:31	13501	MCMI_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
4/15/2024 11:31	67702	WERN_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
4/15/2024 11:31	67701	WERN_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/15/2024 11:31	67703	WERN_T2	3	2	-1	0.43	0.65	0.22	-0.15	-0.13	1	1	0	900	900	0
4/15/2024 11:32	13501	MCMI_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
4/15/2024 11:32	13502	MCMI_T1	1	3	2	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
4/15/2024 11:33	52502	PROG_T2	1	3	2	0.2	0.53	0.33	-0.71	-0.71	1	1	0	900	900	0
4/15/2024 11:35	42802	SELI_T1	1	1	0	0.7	0.8	0.1	-0.64	-0.54	1	1	0	900	900	0
4/15/2024 11:35	13502	MCMI_T1	1	3	2	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
4/15/2024 11:35	57003	WHHI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/15/2024 11:35	57004	WHHI_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
4/15/2024 11:35	57006	WHHI_T2	2	1	-1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
4/15/2024 11:35	13501	MCMI_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
4/15/2024 11:35	13503	MCMI_T2	5	2	-3	0.46	0.7	0.24	-0.01	-0.01	0	0	0	0	0	0
4/15/2024 11:35	42801	SELI_T1	0	1	1	0	10	10	0	0	0	0	0	0	0	0
4/15/2024 11:36	42802	SELI_T1	1	1	0	0.7	0.8	0.1	-0.64	-0.54	1	1	0	900	900	0
4/15/2024 11:36	43301	WATS_T2	2	1	-1	0.25	0.1	-0.15	-1.58	-1.53	2	2	0	1800	1800	0
4/15/2024 11:36	43302	WATS_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/15/2024 11:36	42801	SELI_T1	0	1	1	0	10	10	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/15/2024 11:37	14801	TREI_T2	126	152	26	0.29	0.28	-0.01	0.31	0.29	0	0	0	0	0	0
4/15/2024 11:37	61101	BERK_T5	3	1	-2	0.5	0.8	0.3	-0.62	-0.61	0	0	0	0	0	0
4/15/2024 11:37	61103	BERK_T5	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/15/2024 11:37	14802	TREI_T2	27	38	11	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
4/15/2024 11:37	46005	BERW_T1	3	5	2	0.33	0.76	0.43	-1.83	-1.82	2	2	0	2100	2100	0
4/15/2024 11:38	57003	WHHI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/15/2024 11:38	43301	WATS_T2	2	1	-1	0.25	0.1	-0.15	-0.79	-0.77	1	1	0	900	900	0
4/15/2024 11:38	57002	WHHI_T2	0	0	0	0	0	0	-1.25	-1.19	1	1	0	1200	1200	0
4/15/2024 11:38	43302	WATS_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/15/2024 11:38	57006	WHHI_T2	2	1	-1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
4/15/2024 11:39	43302	WATS_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/15/2024 11:39	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 11:39	43301	WATS_T2	2	1	-1	0.25	0.1	-0.15	-0.77	-0.77	1	1	0	900	900	0
4/15/2024 11:40	24702	FLND_T2	3	2	-1	0.83	0.3	-0.53	0.78	0.73	1	1	0	1200	1200	0
4/15/2024 11:40	16302	ALPA_T2	2	4	2	0.25	0.45	0.2	-0.6	-0.58	0	0	0	0	0	0
4/15/2024 11:42	61801	EELI_T2	0	1	1	0	0.2	0.2	-0.73	-0.73	1	1	0	600	600	0
4/15/2024 11:42	61303	EARL_T1	0	0	0	0	0	0	0.53	0.58	0	0	0	0	0	0
4/15/2024 11:43	24102	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 11:43	24105	EHAZ_T1	4	4	0	6.23	6.18	-0.05	0	0	0	0	0	0	0	0
4/15/2024 11:43	24101	EHAZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/15/2024 11:43	24104	EHAZ_T1	1	1	0	0.4	0.5	0.1	-0.91	-0.92	1	1	0	1200	1200	0
4/15/2024 11:44	67603	WARW_T1	1	3	2	0.3	0.73	0.43	0	0	0	0	0	0	0	0
4/15/2024 11:44	67605	WARW_T1	26	24	-2	0.62	0.64	0.02	-1.01	-1	0	0	0	0	0	0
4/15/2024 11:45	23201	HIRU_T2	2	3	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/15/2024 11:45	23202	HIRU_T2	1	0	-1	0.1	0	-0.1	0.1	0.09	0	0	0	0	0	0
4/15/2024 11:46	13105	NHAM_T2	0	0	0	0	0	0	-0.72	-0.68	1	1	0	1200	1200	0
4/15/2024 11:47	12807	MICK_T1	1	2	1	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
4/15/2024 11:47	12802	MICK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 11:47	43201	MVIL_T2	4	8	4	0.65	0.51	-0.14	0	0	0	0	0	0	0	0
4/15/2024 11:47	12801	MICK_T1	0	0	0	0	0	0	0.04	0.06	1	1	0	600	600	0
4/15/2024 11:47	12803	MICK_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/15/2024 11:47	43202	MVIL_T2	178	184	6	0.95	1.12	0.17	-0.62	-0.58	0	0	0	0	0	0
4/15/2024 11:48	67603	WARW_T1	0	3	3	0	0.83	0.83	0	0	0	0	0	0	0	0
4/15/2024 11:48	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 11:48	67605	WARW_T1	24	18	-6	0.59	0.71	0.12	-1.01	-1	0	0	0	0	0	0
4/15/2024 11:49	43201	MVIL_T2	4	8	4	0.65	0.51	-0.14	-0.41	-0.4	0	0	0	0	0	0
4/15/2024 11:49	43202	MVIL_T2	178	184	6	0.95	1.12	0.17	0	0	0	0	0	0	0	0
4/15/2024 11:51	59201	THOM_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/15/2024 11:51	42901	MIDD_T2	3	52	49	0.5	0.22	-0.28	0	0	0	0	0	0	0	0
4/15/2024 11:51	59102	WALK_T2	1	4	3	0.5	0.53	0.03	0	0	0	0	0	0	0	0
4/15/2024 11:51	42903	MIDD_T2	3	4	1	1.33	1.2	-0.13	0.46	0.6	1	1	0	1200	1200	0
4/15/2024 11:51	13105	NHAM_T2	0	0	0	0	0	0	-0.72	-0.68	1	1	0	1200	1200	0
4/15/2024 11:51	59101	WALK_T2	1	1	0	0.2	1	0.8	2.26	1.94	0	0	0	0	0	0
4/15/2024 11:51	59202	THOM_T1	33	34	1	0.44	0.44	0	0	0	0	0	0	0	0	0
4/15/2024 11:51	42902	MIDD_T2	24	81	57	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
4/15/2024 11:52	61102	BERK_T5	0	0	0	0	0	0	1.08	1.12	1	1	0	300	300	0
4/15/2024 11:52	61101	BERK_T5	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
4/15/2024 11:52	61103	BERK_T5	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
4/15/2024 11:53	67401	WAKE_T2	3	2	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/15/2024 11:53	67402	WAKE_T2	0	0	0	0	0	0	-0.39	0.1	1	1	0	600	600	0
4/15/2024 11:53	54601	SUMM_T2	2	2	0	0.35	0.4	0.05	-1.72	-1.6	2	2	0	2100	2100	0
4/15/2024 11:53	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 11:54	60803	BUCK_T1	0	9	9	0	0.16	0.16	-1.18	-1.17	1	1	0	600	600	0
4/15/2024 11:54	57401	SPAN_T1	4	4	0	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
4/15/2024 11:54	57403	SPAN_T1	9	11	2	0.31	0.34	0.03	-0.06	0.03	0	0	0	0	0	0
4/15/2024 11:54	60801	BUCK_T1	1	8	7	0.2	0.56	0.36	0	0	0	0	0	0	0	0
4/15/2024 11:55	46004	BERW_T2	1	2	1	0.2	0.25	0.05	-0.16	-0.16	0	0	0	0	0	0
4/15/2024 11:55	67605	WARW_T1	24	18	-6	0.59	0.71	0.12	0	0	0	0	0	0	0	0
4/15/2024 11:55	46003	BERW_T2	1	15	14	0.4	0.13	-0.27	0	0	0	0	0	0	0	0
4/15/2024 11:55	67604	WARW_T1	0	1	1	0	0.1	0.1	-0.01	0	0	0	0	0	0	0
4/15/2024 11:55	67603	WARW_T1	0	3	3	0	0.83	0.83	0	0	0	0	0	0	0	0
4/15/2024 11:55	46002	BERW_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/15/2024 11:56	60803	BUCK_T1	0	9	9	0	0.16	0.16	-1.18	-1.17	1	1	0	600	600	0
4/15/2024 11:56	60801	BUCK_T1	1	8	7	0.2	0.56	0.36	0	0	0	0	0	0	0	0
4/15/2024 11:56	44301	BEAV_T2	10	15	5	0.44	0.55	0.11	0.71	-0.3	2	2	0	1500	1500	0
4/15/2024 11:56	44302	BEAV_T2	2	14	12	0.4	0.61	0.21	0	0	0	0	0	0	0	0
4/15/2024 11:58	67605	WARW_T1	24	18	-6	0.59	0.71	0.12	-1	-1	0	0	0	0	0	0
4/15/2024 11:58	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 11:58	67603	WARW_T1	0	3	3	0	0.83	0.83	0	0	0	0	0	0	0	0
4/15/2024 12:00	63601	LETO_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/15/2024 12:00	16401	MOPO_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 12:00	63602	LETO_T1	2	138	136	0.25	0.23	-0.02	-0.2	-0.28	0	0	0	0	0	0
4/15/2024 12:00	42401	GIMA_T1	4	3	-1	0.38	0.57	0.19	0	0	0	0	0	0	0	0
4/15/2024 12:00	16402	MOPO_T1	2	4	2	0.2	0.48	0.28	0.17	0.03	0	0	0	0	0	0
4/15/2024 12:01	12701	MACU_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
4/15/2024 12:01	65501	MOJO_T1	0	0	0	0	0	0	0.52	-0.04	0	0	0	0	0	0
4/15/2024 12:03	67603	WARW_T1	3	3	0	0.73	0.5	-0.23	0	0	0	0	0	0	0	0
4/15/2024 12:03	67605	WARW_T1	16	17	1	0.7	0.73	0.03	-1	-1	0	0	0	0	0	0
4/15/2024 12:03	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 12:04	42802	SELI_T1	1	3	2	0.8	0.37	-0.43	-0.63	-0.63	1	1	0	900	900	0
4/15/2024 12:04	54001	SDLE_T1	12	13	1	0.93	0.95	0.02	0	0	0	0	0	0	0	0
4/15/2024 12:05	54001	SDLE_T1	12	13	1	0.93	0.95	0.02	0	0	0	0	0	0	0	0
4/15/2024 12:05	42802	SELI_T1	1	3	2	0.8	0.37	-0.43	-0.63	-0.63	1	1	0	900	900	0
4/15/2024 12:05	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 12:05	58402	MORO_T1	0	0	0	0	0	0	-0.42	-0.48	4	4	0	3000	3000	0
4/15/2024 12:06	20401	ASHF_T2	3	4	1	0.17	0.25	0.08	-0.27	-0.23	0	0	0	0	0	0
4/15/2024 12:06	54001	SDLE_T1	12	13	1	0.93	0.95	0.02	0	0	0	0	0	0	0	0
4/15/2024 12:06	20403	ASHF_T2	6	9	3	0.45	0.69	0.24	0	0	0	0	0	0	0	0
4/15/2024 12:06	20402	ASHF_T2	2	5	3	0.15	0.56	0.41	0	0	0	0	0	0	0	0
4/15/2024 12:07	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 12:07	67506	WEWI_T1	2	2	0	0.45	0.45	0	-0.08	-0.04	1	1	0	900	900	0
4/15/2024 12:07	67501	WEWI_T1	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/15/2024 12:07	54601	SUMM_T2	2	2	0	0.35	0.4	0.05	-1.72	-1.6	2	2	0	2100	2100	0
4/15/2024 12:07	67502	WEWI_T2	87	148	61	0.28	0.27	-0.01	-2.3	-2.42	2	2	0	1800	1800	0
4/15/2024 12:08	67505	WEWI_T1	2	2	0	0.45	0.45	0	-0.04	-0.02	1	1	0	900	900	0
4/15/2024 12:08	67502	WEWI_T2	87	148	61	0.28	0.27	-0.01	-1.21	-1.2	1	1	0	900	900	0
4/15/2024 12:08	42201	SHEN_T2	1	1	0	0.8	0.9	0.1	0	0.02	1	1	0	600	600	0
4/15/2024 12:08	67501	WEWI_T1	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/15/2024 12:09	43801	SWIL_T1	1	2	1	5.3	2.7	-2.6	0	0	0	0	0	0	0	0
4/15/2024 12:09	43802	SWIL_T1	0	0	0	0	0	0	-0.18	-0.16	1	1	0	600	600	0
4/15/2024 12:10	49803	UNIV_T1	5	6	1	0.72	0.83	0.11	-1.06	-1.07	0	0	0	0	0	0
4/15/2024 12:10	41602	CLEV_T1	1	2	1	1	0.75	-0.25	0	0	0	0	0	0	0	0
4/15/2024 12:10	16302	ALPA_T2	4	2	-2	0.45	0.6	0.15	-0.53	-0.47	0	0	0	0	0	0
4/15/2024 12:10	41601	CLEV_T1	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
4/15/2024 12:10	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 12:10	45902	AUBU_T1	0	2	2	0	0.75	0.75	-0.61	-0.65	1	1	0	600	600	0
4/15/2024 12:10	67502	WEWI_T2	87	148	61	0.28	0.27	-0.01	-1.21	-1.2	1	1	0	900	900	0
4/15/2024 12:11	41601	CLEV_T1	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
4/15/2024 12:11	41602	CLEV_T1	1	2	1	1	0.75	-0.25	0	0	0	0	0	0	0	0
4/15/2024 12:12	24101	EHAZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/15/2024 12:12	53902	HALI_T2	2	3	1	2.85	2	-0.85	-0.25	-0.25	0	0	0	0	0	0
4/15/2024 12:12	53903	HALI_T2	3	9	6	0.87	0.48	-0.39	0	0	0	0	0	0	0	0
4/15/2024 12:12	24102	EHAZ_T1	1	0	-1	0.4	0	-0.4	0.27	0.25	0	0	0	0	0	0
4/15/2024 12:12	24104	EHAZ_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/15/2024 12:12	24105	EHAZ_T1	4	4	0	6.28	5.83	-0.45	0	0	0	0	0	0	0	0
4/15/2024 12:12	53901	HALI_T2	1	2	1	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
4/15/2024 12:12	24103	EHAZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 12:13	46003	BERW_T2	1	15	14	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
4/15/2024 12:13	46002	BERW_T2	1	0	-1	0.1	0	-0.1	-0.76	-0.66	1	1	0	900	900	0
4/15/2024 12:13	23403	HONE_T1	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
4/15/2024 12:13	49804	UNIV_T1	0	1	1	0	0.1	0.1	1.02	1.15	0	0	0	0	0	0
4/15/2024 12:13	23404	HONE_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/15/2024 12:13	49803	UNIV_T1	5	6	1	0.72	0.83	0.11	0	0	0	0	0	0	0	0
4/15/2024 12:13	46004	BERW_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
4/15/2024 12:14	49803	UNIV_T1	5	6	1	0.72	0.83	0.11	0	0	0	0	0	0	0	0
4/15/2024 12:14	26401	INOR_T1	5	5	0	2.2	2.58	0.38	0.38	0.36	0	0	0	0	0	0
4/15/2024 12:14	26402	INOR_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/15/2024 12:14	28403	HART_T2	23	25	2	3.62	2.83	-0.79	-0.9	-0.89	1	1	0	900	900	0
4/15/2024 12:14	49804	UNIV_T1	0	1	1	0	0.1	0.1	1.02	1.15	0	0	0	0	0	0
4/15/2024 12:14	45501	DERR_T2	2	1	-1	0.5	0.6	0.1	0.95	0.79	2	2	0	1800	1800	0
4/15/2024 12:15	21901	HUMB_T1	0	0	0	0	0	0	-0.97	-0.97	0	0	0	0	0	0
4/15/2024 12:15	63302	GREE_T1	0	0	0	0	0	0	0.63	0.65	0	0	0	0	0	0
4/15/2024 12:15	24101	EHAZ_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/15/2024 12:15	63303	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/15/2024 12:15	24104	EHAZ_T1	2	4	2	0.25	0.28	0.03	0	0	0	0	0	0	0	0
4/15/2024 12:15	45902	AUBU_T1	2	3	1	0.75	0.5	-0.25	-0.61	-0.65	1	1	0	600	600	0
4/15/2024 12:15	53502	EVIL_T2	0	0	0	0	0	0	-0.17	-0.09	2	2	0	1200	1200	0
4/15/2024 12:15	24103	EHAZ_T1	1	1	0	0.4	0.2	-0.2	-0.93	-0.85	0	0	0	0	0	0
4/15/2024 12:15	24105	EHAZ_T1	4	4	0	5.98	5.83	-0.15	0	0	0	0	0	0	0	0
4/15/2024 12:15	53501	EVIL_T2	2	7	5	0.75	0.44	-0.31	0	0	0	0	0	0	0	0
4/15/2024 12:16	46504	LOHA_T1	15	43	28	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
4/15/2024 12:16	46506	LOHA_T1	1	8	7	0.5	0.4	-0.1	-0.45	-0.45	0	0	0	0	0	0
4/15/2024 12:16	53501	EVIL_T2	2	7	5	0.75	0.44	-0.31	-0.04	0	1	1	0	600	600	0
4/15/2024 12:16	46501	LOHA_T1	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
4/15/2024 12:17	46501	LOHA_T1	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
4/15/2024 12:17	46801	HEPB_T2	2	2	0	0.25	0.35	0.1	0.6	0.62	0	0	0	0	0	0
4/15/2024 12:17	46803	HEPB_T2	1	2	1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/15/2024 12:17	46506	LOHA_T1	1	8	7	0.5	0.4	-0.1	-0.45	-0.45	0	0	0	0	0	0
4/15/2024 12:17	46504	LOHA_T1	15	43	28	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
4/15/2024 12:18	41602	CLEV_T1	2	2	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
4/15/2024 12:18	41601	CLEV_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
4/15/2024 12:19	66903	SHIL_T2	1	2	1	0.2	0.15	-0.05	-2.93	-2.95	0	0	0	0	0	0
4/15/2024 12:19	44201	POIN_T1	102	12	-90	0.2	0.18	-0.02	-3.89	-3.25	4	4	0	4200	4200	0
4/15/2024 12:19	66901	SHIL_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/15/2024 12:19	66902	SHIL_T2	3	2	-1	0.37	0.45	0.08	0	0	0	0	0	0	0	0
4/15/2024 12:20	42801	SELI_T1	0	0	0	0	0	0	-0.91	-0.89	1	1	0	1200	1200	0
4/15/2024 12:20	42802	SELI_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
4/15/2024 12:20	44201	POIN_T1	102	12	-90	0.2	0.18	-0.02	-1.95	-1.63	2	2	0	2100	2100	0
4/15/2024 12:21	44201	POIN_T1	102	12	-90	0.2	0.18	-0.02	-3.89	-3.25	4	4	0	4200	4200	0
4/15/2024 12:21	54001	SDLE_T1	13	13	0	0.95	0.87	-0.08	0	0	0	0	0	0	0	0
4/15/2024 12:22	14502	SCHO_T1	1	1	0	0.8	0.8	0	0.34	0.35	0	0	0	0	0	0
4/15/2024 12:22	67203	TEHI_T1	2	4	2	0.25	0.65	0.4	0	0	0	0	0	0	0	0
4/15/2024 12:22	14501	SCHO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/15/2024 12:22	67201	TEHI_T1	4	3	-1	0.63	0.47	-0.16	0.28	0.34	1	1	0	600	600	0
4/15/2024 12:22	44201	POIN_T1	102	12	-90	0.2	0.18	-0.02	-1.95	-1.63	2	2	0	2100	2100	0
4/15/2024 12:22	54001	SDLE_T1	13	13	0	0.95	0.87	-0.08	0	0	0	0	0	0	0	0
4/15/2024 12:23	60803	BUCK_T1	9	3	-6	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
4/15/2024 12:23	60801	BUCK_T1	8	9	1	0.56	0.38	-0.18	-0.77	-0.75	1	1	0	600	600	0
4/15/2024 12:24	60801	BUCK_T1	8	9	1	0.56	0.38	-0.18	-0.77	-0.75	1	1	0	600	600	0
4/15/2024 12:24	61304	EARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/15/2024 12:24	60803	BUCK_T1	9	3	-6	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
4/15/2024 12:24	61303	EARL_T1	0	0	0	0	0	0	0.91	1.12	0	0	0	0	0	0
4/15/2024 12:25	15001	BLMO_T1	5	5	0	0.4	0.52	0.12	0	0	0	0	0	0	0	0
4/15/2024 12:25	61304	EARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/15/2024 12:25	61302	EARL_T1	0	0	0	0	0	0	0.69	0.95	2	2	0	1800	1800	0
4/15/2024 12:25	60101	COCA_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/15/2024 12:25	61303	EARL_T1	0	0	0	0	0	0	0.45	0.56	0	0	0	0	0	0
4/15/2024 12:25	41305	FISH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 12:25	41301	FISH_T1	6	6	0	1.42	1.35	-0.07	0	0	0	0	0	0	0	0
4/15/2024 12:25	60102	COCA_T1	0	0	0	0	0	0	0.82	0.93	1	1	0	600	600	0
4/15/2024 12:26	53901	HALI_T2	1	2	1	0.7	0.4	-0.3	-0.4	-0.38	0	0	0	0	0	0
4/15/2024 12:26	53903	HALI_T2	4	9	5	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
4/15/2024 12:26	45902	AUBU_T1	2	3	1	0.75	0.5	-0.25	-0.65	-0.55	1	1	0	600	600	0
4/15/2024 12:26	61303	EARL_T1	0	0	0	0	0	0	0.45	0.56	0	0	0	0	0	0
4/15/2024 12:26	61304	EARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/15/2024 12:26	60101	COCA_T1	1	1	0	0.3	0.4	0.1	0.27	0.28	0	0	0	0	0	0
4/15/2024 12:26	53902	HALI_T2	3	3	0	1.93	2.27	0.34	0	0	0	0	0	0	0	0
4/15/2024 12:27	20402	ASHF_T2	5	5	0	0.48	0.44	-0.04	0	0	0	0	0	0	0	0
4/15/2024 12:27	20401	ASHF_T2	4	2	-2	0.25	0.2	-0.05	-0.28	-0.26	0	0	0	0	0	0
4/15/2024 12:27	20403	ASHF_T2	9	9	0	0.69	0.43	-0.26	0	0	0	0	0	0	0	0
4/15/2024 12:27	40902	JESH_T1	1	3	2	0.3	0.37	0.07	-0.33	0.31	1	0	-1	600	0	-600
4/15/2024 12:28	60803	BUCK_T1	9	3	-6	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
4/15/2024 12:28	60801	BUCK_T1	8	9	1	0.56	0.38	-0.18	-0.77	-0.75	1	1	0	600	600	0
4/15/2024 12:31	45902	AUBU_T1	1	3	2	0.4	0.5	0.1	-0.65	-0.55	1	1	0	600	600	0
4/15/2024 12:33	13302	ORVI_T2	2	2	0	1.1	1.25	0.15	1.26	1.2	0	0	0	0	0	0
4/15/2024 12:33	60803	BUCK_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/15/2024 12:33	60801	BUCK_T1	7	8	1	0.41	0.39	-0.02	-0.77	-0.75	1	1	0	600	600	0
4/15/2024 12:34	46301	ROHR_T1	268	238	-30	0.52	0.44	-0.08	0.2	0.24	0	0	0	0	0	0
4/15/2024 12:34	46302	ROHR_T1	130	101	-29	0.36	0.38	0.02	0	0	0	0	0	0	0	0
4/15/2024 12:34	42002	MNVL_T2	2	2	0	2.15	2.3	0.15	-0.15	0.03	0	0	0	0	0	0
4/15/2024 12:34	23001	SAJO_T1	1	1	0	0.5	0.4	-0.1	0.05	0.09	0	0	0	0	0	0
4/15/2024 12:34	42001	MNVL_T2	6	6	0	0.57	0.57	0	0	0	0	0	0	0	0	0
4/15/2024 12:34	23002	SAJO_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/15/2024 12:35	42002	MNVL_T2	2	2	0	2.15	2.3	0.15	0	0	0	0	0	0	0	0
4/15/2024 12:35	42001	MNVL_T2	6	6	0	0.57	0.57	0	0.08	0.07	0	0	0	0	0	0
4/15/2024 12:36	45902	AUBU_T1	1	3	2	0.4	0.5	0.1	-0.65	-0.55	1	1	0	600	600	0
4/15/2024 12:36	15701	TANN_T1	2	2	0	2.35	2.65	0.3	0	0	0	0	0	0	0	0
4/15/2024 12:36	15704	TANN_T1	0	1	1	0	0.3	0.3	-1.18	-1.19	0	0	0	0	0	0
4/15/2024 12:36	55002	NEWP_T1	20	18	-2	0.65	0.68	0.03	0	0	0	0	0	0	0	0
4/15/2024 12:36	55001	NEWP_T1	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
4/15/2024 12:36	64701	LITI_T1	0	0	0	0	0	0	0.31	0.47	0	0	0	0	0	0
4/15/2024 12:37	13601	RICH_T2	0	0	0	0	0	0	0.1	0.14	1	1	0	600	600	0
4/15/2024 12:37	46302	ROHR_T1	130	101	-29	0.36	0.38	0.02	0	0	0	0	0	0	0	0
4/15/2024 12:37	13606	RICH_T2	2	2	0	3.8	3.85	0.05	0	0	0	0	0	0	0	0
4/15/2024 12:37	46301	ROHR_T1	268	238	-30	0.52	0.44	-0.08	0.2	0.24	0	0	0	0	0	0
4/15/2024 12:39	66702	STRA_T1	0	0	0	0	0	0	1.06	1.14	2	2	0	1500	1500	0
4/15/2024 12:39	66701	STRA_T1	2	2	0	0.85	0.65	-0.2	0	0	0	0	0	0	0	0
4/15/2024 12:41	60102	COCA_T1	0	0	0	0	0	0	0.93	1.12	1	1	0	600	600	0
4/15/2024 12:41	60101	COCA_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/15/2024 12:41	12202	FOGE_T2	8	10	2	0.61	1.06	0.45	-0.55	-0.51	1	1	0	600	600	0
4/15/2024 12:41	45902	AUBU_T1	1	3	2	0.4	0.5	0.1	-0.55	-0.55	1	1	0	600	600	0
4/15/2024 12:42	49804	UNIV_T1	0	1	1	0	0.5	0.5	1.03	0.73	0	0	0	0	0	0
4/15/2024 12:42	28403	HART_T2	23	23	0	2.93	2.62	-0.31	-0.9	-0.87	1	1	0	900	900	0
4/15/2024 12:42	49803	UNIV_T1	4	6	2	1.1	0.62	-0.48	0	0	0	0	0	0	0	0
4/15/2024 12:43	28805	LAKE_T1	0	1	1	0	0.4	0.4	-0.23	-0.24	0	0	0	0	0	0
4/15/2024 12:43	40902	JESH_T1	1	3	2	0.2	0.37	0.17	0.31	0.36	0	0	0	0	0	0
4/15/2024 12:44	40902	JESH_T1	1	3	2	0.2	0.37	0.17	0.31	0.36	0	0	0	0	0	0
4/15/2024 12:47	55001	NEWP_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
4/15/2024 12:47	55002	NEWP_T1	18	15	-3	0.67	0.73	0.06	0	0	0	0	0	0	0	0
4/15/2024 12:47	58402	MORO_T1	0	0	0	0	0	0	-0.2	-0.32	2	2	0	1500	1500	0
4/15/2024 12:47	58401	MORO_T1	6	1	-5	7.87	0.1	-7.77	0	0	0	0	0	0	0	0
4/15/2024 12:48	51004	NHAR_T1	8	7	-1	1.13	1.14	0.01	-0.32	-0.22	0	0	0	0	0	0
4/15/2024 12:48	51002	NHAR_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
4/15/2024 12:50	15103	UPHA_T2	2	1	-1	0.35	0.1	-0.25	0.42	0.44	0	0	0	0	0	0
4/15/2024 12:50	15104	UPHA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 12:50	55002	NEWP_T1	18	15	-3	0.67	0.73	0.06	0	0	0	0	0	0	0	0
4/15/2024 12:50	55003	NEWP_T2	9	9	0	0.27	0.23	-0.04	-0.08	-0.07	0	0	0	0	0	0
4/15/2024 12:50	55001	NEWP_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
4/15/2024 12:51	45403	WBLO_T1	0	0	0	0	0	0	1.17	1.06	2	2	0	2400	2400	0
4/15/2024 12:52	66504	SMAN_T2	1	1	0	0.3	0.2	-0.1	-0.21	-0.02	0	0	0	0	0	0
4/15/2024 12:52	66501	SMAN_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
4/15/2024 12:52	66502	SMAN_T2	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/15/2024 12:52	45902	AUBU_T1	3	1	-2	0.5	0.8	0.3	-0.55	-0.55	1	1	0	600	600	0
4/15/2024 12:52	64101	REFR_T1	0	0	0	0	0	0	-0.67	-0.64	0	0	0	0	0	0
4/15/2024 12:53	67803	WLAN_T1	0	5	5	0	0.28	0.28	-0.83	-0.79	0	0	0	0	0	0
4/15/2024 12:53	67804	WLAN_T1	3	6	3	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/15/2024 12:53	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 12:55	67804	WLAN_T1	3	6	3	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/15/2024 12:55	45501	DERR_T2	1	4	3	1.2	0.43	-0.77	1.09	1.07	2	2	0	1800	1800	0
4/15/2024 12:55	67803	WLAN_T1	0	5	5	0	0.28	0.28	-0.83	-0.79	0	0	0	0	0	0
4/15/2024 12:56	11805	FRAN_T1	3	3	0	1	1.03	0.03	0	0	0	0	0	0	0	0
4/15/2024 12:56	11804	FRAN_T1	1	2	1	0.6	0.7	0.1	0.99	0.96	0	0	0	0	0	0
4/15/2024 12:57	45902	AUBU_T1	3	1	-2	0.5	0.8	0.3	-0.55	-0.57	1	1	0	600	600	0
4/15/2024 12:57	67803	WLAN_T1	0	5	5	0	0.28	0.28	0	0	0	0	0	0	0	0
4/15/2024 12:57	67804	WLAN_T1	3	6	3	0.2	0.35	0.15	-0.98	-0.97	0	0	0	0	0	0
4/15/2024 12:57	17401	FOHI_T1	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
4/15/2024 12:57	40101	HUNT_T2	1	4	3	0.1	0.2	0.1	-0.19	-0.18	0	0	0	0	0	0
4/15/2024 12:58	67804	WLAN_T1	3	6	3	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/15/2024 12:58	67803	WLAN_T1	0	5	5	0	0.28	0.28	-0.83	-0.79	0	0	0	0	0	0
4/15/2024 12:59	64101	REFR_T1	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
4/15/2024 13:00	46506	LOHA_T1	1	1	0	0.3	0.5	0.2	-0.45	-0.44	0	0	0	0	0	0
4/15/2024 13:00	41202	KENM_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/15/2024 13:00	46501	LOHA_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/15/2024 13:00	40101	HUNT_T2	3	1	-2	0.2	0	-0.2	-0.19	-0.18	0	0	0	0	0	0
4/15/2024 13:00	46504	LOHA_T1	2	4	2	0.35	0.78	0.43	0	0	0	0	0	0	0	0
4/15/2024 13:00	22101	EDEL_T2	1	1	0	0.2	0.7	0.5	0.33	0.35	1	1	0	1200	1200	0
4/15/2024 13:00	41204	KENM_T2	0	1	1	0	0.1	0.1	0.27	0.29	0	0	0	0	0	0
4/15/2024 13:06	43301	WATS_T2	3	5	2	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
4/15/2024 13:06	43304	WATS_T2	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
4/15/2024 13:06	43302	WATS_T2	1	4	3	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/15/2024 13:06	14802	TREI_T2	30	34	4	0.32	0.29	-0.03	0.44	0.46	0	0	0	0	0	0
4/15/2024 13:06	14801	TREI_T2	118	129	11	0.32	0.29	-0.03	0	0	0	0	0	0	0	0
4/15/2024 13:07	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 13:08	64101	REFR_T1	0	0	0	0	0	0	-0.64	-0.59	0	0	0	0	0	0
4/15/2024 13:08	45902	AUBU_T1	1	1	0	0.8	0.7	-0.1	-0.57	-0.64	1	1	0	600	600	0
4/15/2024 13:09	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 13:09	43302	WATS_T2	1	4	3	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/15/2024 13:09	43301	WATS_T2	3	5	2	0.5	0.28	-0.22	-0.72	-0.72	1	1	0	900	900	0
4/15/2024 13:10	21206	ECAR_T2	1	2	1	8	4.1	-3.9	1.61	1.66	0	0	0	0	0	0
4/15/2024 13:10	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 13:10	17401	FOHI_T1	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
4/15/2024 13:12	45901	AUBU_T1	0	0	0	0	0	0	1.98	2.13	0	0	0	0	0	0
4/15/2024 13:12	45902	AUBU_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/15/2024 13:13	45902	AUBU_T1	1	1	0	0.8	0.7	-0.1	-0.57	-0.64	1	1	0	600	600	0
4/15/2024 13:14	64101	REFR_T1	0	0	0	0	0	0	-0.64	-0.59	0	0	0	0	0	0
4/15/2024 13:15	21206	ECAR_T2	2	1	-1	4.05	8.1	4.05	3.22	3.31	0	0	0	0	0	0
4/15/2024 13:15	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 13:18	26401	INOR_T1	1	2	1	8.4	4.5	-3.9	0.6	0.67	0	0	0	0	0	0
4/15/2024 13:18	40601	PIGR_T1	108	100	-8	0.27	0.26	-0.01	0.27	0.28	0	0	0	0	0	0
4/15/2024 13:18	40602	PIGR_T1	1	2	1	0.2	0.35	0.15	0.11	0.1	1	1	0	600	600	0
4/15/2024 13:18	26402	INOR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 13:18	40603	PIGR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/15/2024 13:20	55101	WERT_T1	0	0	0	0	0	0	0	4	4	4	0	3000	3000	0
4/15/2024 13:20	15703	TANN_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
4/15/2024 13:20	15702	TANN_T2	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
4/15/2024 13:21	40603	PIGR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/15/2024 13:21	40602	PIGR_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/15/2024 13:21	40601	PIGR_T1	108	100	-8	0.27	0.26	-0.01	0.27	0.28	0	0	0	0	0	0
4/15/2024 13:23	58401	MORO_T1	0	117	117	0	1.65	1.65	-0.17	-0.24	2	2	0	1500	1500	0
4/15/2024 13:23	60701	BREC_T1	0	5	5	0	0.36	0.36	-0.24	-0.38	2	2	0	1200	1200	0
4/15/2024 13:23	58401	MORO_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/15/2024 13:24	60701	BREC_T1	0	5	5	0	0.36	0.36	-0.24	-0.38	2	2	0	1200	1200	0
4/15/2024 13:24	58401	MORO_T1	1	2	1	0.1	0.15	0.05	-0.5	-0.48	1	1	0	600	600	0
4/15/2024 13:24	50107	HARR_T3	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
4/15/2024 13:24	58402	MORO_T1	0	117	117	0	1.65	1.65	0	0	0	0	0	0	0	0
4/15/2024 13:24	60901	DONG_T2	2	7	5	0.5	0.46	-0.04	0	0	0	0	0	0	0	0
4/15/2024 13:24	60902	DONG_T2	0	1	1	0	0.2	0.2	1.12	1.11	0	0	0	0	0	0
4/15/2024 13:24	50105	HARR_T3	6	6	0	6.52	5.95	-0.57	0	0	0	0	0	0	0	0
4/15/2024 13:24	60904	DONG_T2	1	5	4	1.2	0.64	-0.56	0	0	0	0	0	0	0	0
4/15/2024 13:24	50103	HARR_T3	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/15/2024 13:25	60701	BREC_T1	0	5	5	0	0.36	0.36	-0.24	-0.38	2	2	0	1200	1200	0
4/15/2024 13:25	15702	TANN_T2	0	0	0	0	0	0	0.46	0.5	0	0	0	0	0	0
4/15/2024 13:25	15703	TANN_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
4/15/2024 13:26	50105	HARR_T3	6	6	0	6.52	5.95	-0.57	0	0	0	0	0	0	0	0
4/15/2024 13:26	60701	BREC_T1	0	5	5	0	0.36	0.36	-0.24	-0.38	2	2	0	1200	1200	0
4/15/2024 13:26	50103	HARR_T3	0	3	3	0	0.23	0.23	-1.21	-1.18	2	2	0	2400	2400	0
4/15/2024 13:27	50103	HARR_T3	0	3	3	0	0.23	0.23	-0.61	-0.59	1	1	0	1200	1200	0
4/15/2024 13:27	50105	HARR_T3	6	6	0	6.52	5.95	-0.57	0	0	0	0	0	0	0	0
4/15/2024 13:29	26803	JAFR_T1	1	1	0	1.2	1	-0.2	-0.08	-0.03	1	1	0	900	900	0
4/15/2024 13:30	64702	LITI_T2	0	0	0	0	0	0	-0.46	-0.42	0	0	0	0	0	0
4/15/2024 13:30	12701	MACU_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
4/15/2024 13:31	21901	HUMB_T1	0	0	0	0	0	0	-0.95	-1	0	0	0	0	0	0
4/15/2024 13:31	46504	LOHA_T1	4	3	-1	0.78	0.6	-0.18	0	0	0	0	0	0	0	0
4/15/2024 13:31	46501	LOHA_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/15/2024 13:31	46506	LOHA_T1	1	0	-1	0.5	0	-0.5	-0.44	-0.43	0	0	0	0	0	0
4/15/2024 13:31	26803	JAFR_T1	1	1	0	0.5	1	0.5	-0.08	-0.03	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/15/2024 13:33	51102	CARL_T1	3	5	2	0.27	0.34	0.07	0	0	0	0	0	0	0	0
4/15/2024 13:33	51101	CARL_T1	0	0	0	0	0	0	-0.81	-0.83	1	1	0	600	600	0
4/15/2024 13:36	20402	ASHF_T2	2	4	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
4/15/2024 13:36	20403	ASHF_T2	8	9	1	0.55	0.86	0.31	1.06	1.03	0	0	0	0	0	0
4/15/2024 13:36	20401	ASHF_T2	2	2	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
4/15/2024 13:37	64702	LITI_T2	0	0	0	0	0	0	-0.46	-0.42	0	0	0	0	0	0
4/15/2024 13:37	54601	SUMM_T2	3	2	-1	0.23	0.35	0.12	-1.69	-1.63	2	2	0	2100	2100	0
4/15/2024 13:38	20401	ASHF_T2	2	2	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
4/15/2024 13:38	20403	ASHF_T2	8	9	1	0.55	0.86	0.31	1.03	1	0	0	0	0	0	0
4/15/2024 13:38	20402	ASHF_T2	2	4	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
4/15/2024 13:38	44301	BEAV_T2	1	1	0	0.3	0.3	0	0.68	0.59	2	2	0	1500	1500	0
4/15/2024 13:39	45902	AUBU_T1	1	1	0	0.5	1.1	0.6	-0.72	-0.78	1	1	0	600	600	0
4/15/2024 13:40	60605	NCOL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 13:40	20402	ASHF_T2	2	4	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
4/15/2024 13:40	20403	ASHF_T2	8	9	1	0.55	0.86	0.31	1.03	1	0	0	0	0	0	0
4/15/2024 13:40	41602	CLEV_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
4/15/2024 13:40	20401	ASHF_T2	2	2	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
4/15/2024 13:40	41601	CLEV_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/15/2024 13:41	46402	FLEM_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/15/2024 13:41	46401	FLEM_T2	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
4/15/2024 13:44	47001	HUGH_T2	2	1	-1	0.3	0.4	0.1	-0.09	-0.06	0	0	0	0	0	0
4/15/2024 13:44	45902	AUBU_T1	1	1	0	0.5	1.1	0.6	-0.72	-0.78	1	1	0	600	600	0
4/15/2024 13:44	47002	HUGH_T2	2	4	2	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
4/15/2024 13:45	58401	MORO_T1	2	0	-2	0.15	0	-0.15	-0.48	-0.52	1	1	0	600	600	0
4/15/2024 13:45	58402	MORO_T1	117	1	-116	2.01	0.3	-1.71	0	0	0	0	0	0	0	0
4/15/2024 13:46	46901	MNTG_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/15/2024 13:46	28805	LAKE_T1	1	1	0	0.3	0.7	0.4	-0.23	-0.23	0	0	0	0	0	0
4/15/2024 13:46	28801	LAKE_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/15/2024 13:46	46903	MNTG_T2	6	8	2	0.93	1	0.07	0	0.17	1	1	0	600	600	0
4/15/2024 13:46	46902	MNTG_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/15/2024 13:47	47002	HUGH_T2	2	6	4	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
4/15/2024 13:47	41601	CLEV_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/15/2024 13:47	58401	MORO_T1	2	0	-2	0.15	0	-0.15	-0.48	-0.52	1	1	0	600	600	0
4/15/2024 13:47	41602	CLEV_T1	1	2	1	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/15/2024 13:47	47001	HUGH_T2	1	2	1	0.4	0.2	-0.2	-0.09	-0.06	0	0	0	0	0	0
4/15/2024 13:47	58402	MORO_T1	117	1	-116	2.01	0.3	-1.71	0	0	0	0	0	0	0	0
4/15/2024 13:48	13606	RICH_T2	1	1	0	7.5	7.6	0.1	1.16	1.11	0	0	0	0	0	0
4/15/2024 13:52	16504	STRO_T1	0	0	0	0	0	0	0.32	0.34	1	1	0	1200	1200	0
4/15/2024 13:52	56802	BENV_T2	7	2	-5	0.66	1.4	0.74	-0.65	-0.6	0	0	0	0	0	0
4/15/2024 13:53	56802	BENV_T2	7	2	-5	0.66	1.4	0.74	-1.2	-1.31	0	0	0	0	0	0
4/15/2024 13:53	42903	MIDD_T2	0	0	0	0	0	0	1.73	1.75	0	0	0	0	0	0
4/15/2024 13:53	44301	BEAV_T2	1	2	1	0.3	0.3	0	0.59	0.63	2	2	0	1500	1500	0
4/15/2024 13:54	58003	WCAR_T1	0	0	0	0	0	0	0.18	0.33	1	1	0	600	600	0
4/15/2024 13:54	56802	BENV_T2	7	2	-5	0.66	1.4	0.74	-0.6	-0.66	0	0	0	0	0	0
4/15/2024 13:55	46005	BERW_T1	7	8	1	0.73	0.76	0.03	0	0	0	0	0	0	0	0
4/15/2024 13:55	56802	BENV_T2	7	2	-5	0.66	1.4	0.74	-1.2	-1.31	0	0	0	0	0	0
4/15/2024 13:55	46001	BERW_T1	0	1	1	0	0	0	0.73	0.74	0	0	0	0	0	0
4/15/2024 13:55	45902	AUBU_T1	1	4	3	0.6	0.68	0.08	-0.78	-0.82	1	1	0	600	600	0
4/15/2024 13:55	56803	BENV_T1	3	6	3	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/15/2024 13:55	56801	BENV_T1	3	25	22	1.3	0.96	-0.34	-0.12	-0.75	0	1	1	0	600	600
4/15/2024 13:56	56801	BENV_T1	3	25	22	1.3	0.96	-0.34	-0.12	-0.75	0	1	1	0	600	600
4/15/2024 13:56	56803	BENV_T1	3	6	3	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/15/2024 13:56	56802	BENV_T2	7	2	-5	0.66	1.4	0.74	-0.6	-0.66	0	0	0	0	0	0
4/15/2024 13:57	41301	FISH_T1	4	4	0	1.63	1.43	-0.2	0	0	0	0	0	0	0	0
4/15/2024 13:57	41601	CLEV_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/15/2024 13:57	41303	FISH_T1	0	0	0	0	0	0	-0.09	-0.05	0	0	0	0	0	0
4/15/2024 13:57	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 13:57	56801	BENV_T1	3	25	22	1.3	0.96	-0.34	-0.61	-3.74	0	5	5	0	3000	3000
4/15/2024 13:57	56803	BENV_T1	3	6	3	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/15/2024 13:57	56802	BENV_T2	7	2	-5	0.66	1.4	0.74	-3	-3.28	0	0	0	0	0	0
4/15/2024 13:57	41602	CLEV_T1	1	2	1	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/15/2024 13:57	21206	ECAR_T2	1	2	1	8.1	4.15	-3.95	1.59	1.63	0	0	0	0	0	0
4/15/2024 13:57	21202	ECAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 13:58	56803	BENV_T1	3	6	3	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/15/2024 13:58	56801	BENV_T1	3	25	22	1.3	0.96	-0.34	-0.25	-1.5	0	2	2	0	1200	1200
4/15/2024 14:00	56802	BENV_T2	2	3	1	1.4	1.2	-0.2	-0.6	-0.66	0	0	0	0	0	0
4/15/2024 14:00	47103	MARL_T2	1	4	3	0.2	0.33	0.13	-0.49	-0.48	0	0	0	0	0	0
4/15/2024 14:00	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	-0.43	-0.45	1	1	0	1200	1200	0
4/15/2024 14:00	45902	AUBU_T1	1	4	3	1.1	0.68	-0.42	-0.78	-0.82	1	1	0	600	600	0
4/15/2024 14:01	47103	MARL_T2	1	4	3	0.2	0.33	0.13	-0.49	-0.48	0	0	0	0	0	0
4/15/2024 14:04	60101	COCA_T1	1	4	3	0.8	0.38	-0.42	0.34	0.31	0	0	0	0	0	0
4/15/2024 14:06	46001	BERW_T1	0	1	1	0	0	0	0.73	0.74	0	0	0	0	0	0
4/15/2024 14:06	46005	BERW_T1	3	8	5	0.83	0.76	-0.07	0	0	0	0	0	0	0	0
4/15/2024 14:07	57006	WHIH_T2	1	3	2	0.9	0.77	-0.13	0.22	0.19	1	1	0	600	600	0
4/15/2024 14:07	56803	BENV_T1	2	7	5	0.4	0.59	0.19	0	0	0	0	0	0	0	0
4/15/2024 14:07	45902	AUBU_T1	1	4	3	1.1	0.68	-0.42	-0.78	-0.82	1	1	0	600	600	0
4/15/2024 14:07	56801	BENV_T1	2	24	22	0.55	1.01	0.46	-0.12	-0.75	0	1	1	0	600	600
4/15/2024 14:08	56803	BENV_T1	2	7	5	0.4	0.59	0.19	0	0	0	0	0	0	0	0
4/15/2024 14:08	56801	BENV_T1	2	24	22	0.55	1.01	0.46	-0.75	-0.76	0	1	1	0	600	600
4/15/2024 14:09	56802	BENV_T2	2	3	1	1.4	1.2	-0.2	-0.66	-0.63	0	0	0	0	0	0
4/15/2024 14:10	51303	WIND_T1	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/15/2024 14:10	51301	WIND_T1	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/15/2024 14:10	51305	WIND_T1	1	1	0	0.9	0.4	-0.5	-0.36	-0.37	0	0	0	0	0	0
4/15/2024 14:11	50103	HARR_T3	2	3	1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/15/2024 14:11	45902	AUBU_T1	1	4	3	1.1	0.68	-0.42	-0.82	-0.7	1	1	0	600	600	0
4/15/2024 14:11	56803	BENV_T1	2	7	5	0.4	0.59	0.19	0	0	0	0	0	0	0	0
4/15/2024 14:11	53901	HALI_T2	6	5	-1	0.47	0.64	0.17	-0.34	-0.34	0	0	0	0	0	0
4/15/2024 14:11	53903	HALI_T2	12	12	0	0.73	0.84	0.11	0	0	0	0	0	0	0	0
4/15/2024 14:11	50201	HARR_T3	0	0	0	0	0	0	0.35	0.39	0	0	0	0	0	0
4/15/2024 14:11	56801	BENV_T1	2	24	22	0.55	1.01	0.46	-0.75	-0.76	1	1	0	600	600	0
4/15/2024 14:11	53902	HALI_T2	3	4	1	2.53	1.98	-0.55	0	0	0	0	0	0	0	0
4/15/2024 14:11	50105	HARR_T3	6	6	0	6.13	6.07	-0.06	0	0	0	0	0	0	0	0
4/15/2024 14:12	47203	FAXO_T2	0	1	1	0	0	0	-1.53	-1.45	1	1	0	1200	1200	0
4/15/2024 14:12	56801	BENV_T1	2	24	22	0.55	1.01	0.46	-0.75	-0.76	1	1	0	600	600	0
4/15/2024 14:12	53902	HALI_T2	3	4	1	2.53	1.98	-0.55	0	0	0	0	0	0	0	0
4/15/2024 14:12	53901	HALI_T2	6	5	-1	0.47	0.64	0.17	-0.34	-0.34	0	0	0	0	0	0
4/15/2024 14:12	53903	HALI_T2	12	12	0	0.73	0.84	0.11	0	0	0	0	0	0	0	0
4/15/2024 14:12	56803	BENV_T1	2	7	5	0.4	0.59	0.19	0	0	0	0	0	0	0	0
4/15/2024 14:13	53902	HALI_T2	3	4	1	2.53	1.98	-0.55	0	0	0	0	0	0	0	0
4/15/2024 14:13	53903	HALI_T2	12	12	0	0.73	0.84	0.11	0	0	0	0	0	0	0	0
4/15/2024 14:13	56802	BENV_T2	2	3	1	1.4	1.2	-0.2	-1.31	-1.25	0	0	0	0	0	0
4/15/2024 14:13	53901	HALI_T2	6	5	-1	0.47	0.64	0.17	-0.69	-0.69	0	0	0	0	0	0
4/15/2024 14:14	53902	HALI_T2	3	4	1	2.53	1.98	-0.55	0	0	0	0	0	0	0	0
4/15/2024 14:14	53903	HALI_T2	12	12	0	0.73	0.84	0.11	0	0	0	0	0	0	0	0
4/15/2024 14:14	53901	HALI_T2	6	5	-1	0.47	0.64	0.17	-0.34	-0.34	0	0	0	0	0	0
4/15/2024 14:16	45902	AUBU_T1	4	1	-3	0.68	0.7	0.02	-0.82	-0.7	1	1	0	600	600	0
4/15/2024 14:16	50103	HARR_T3	3	2	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/15/2024 14:16	50201	HARR_T3	0	0	0	0	0	0	0.35	0.39	0	0	0	0	0	0
4/15/2024 14:16	50105	HARR_T3	6	6	0	6.07	6.07	0	0	0	0	0	0	0	0	0
4/15/2024 14:25	44301	BEAV_T2	2	2	0	0.3	0.2	-0.1	0.29	0.58	1	1	0	600	600	0
4/15/2024 14:25	44302	BEAV_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/15/2024 14:26	45902	AUBU_T1	4	1	-3	0.68	0.7	0.02	-0.7	-0.7	1	1	0	600	600	0
4/15/2024 14:28	41601	CLEV_T1	2	1	-1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
4/15/2024 14:28	41602	CLEV_T1	2	2	0	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
4/15/2024 14:29	41602	CLEV_T1	2	2	0	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
4/15/2024 14:29	41601	CLEV_T1	2	1	-1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
4/15/2024 14:32	53902	HALI_T2	3	4	1	2.53	1.88	-0.65	0	0	0	0	0	0	0	0
4/15/2024 14:32	53903	HALI_T2	12	12	0	0.67	0.78	0.11	0	0	0	0	0	0	0	0
4/15/2024 14:32	45902	AUBU_T1	1	1	0	0.3	0.7	0.4	-0.7	-0.7	1	1	0	600	600	0
4/15/2024 14:32	53901	HALI_T2	4	5	1	0.63	0.6	-0.03	-0.34	-0.35	0	0	0	0	0	0
4/15/2024 14:35	66903	SHIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/15/2024 14:35	66902	SHIL_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
4/15/2024 14:35	66901	SHIL_T2	1	2	1	0.3	0.3	0	-0.05	-0.02	0	0	0	0	0	0
4/15/2024 14:36	27605	PIRI_T2	0	0	0	0	0	0	-0.37	-0.32	1	1	0	900	900	0
4/15/2024 14:37	67803	WLAN_T1	0	0	0	0	0	0	-0.8	-0.75	0	0	0	0	0	0
4/15/2024 14:38	67804	WLAN_T1	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
4/15/2024 14:38	15703	TANN_T2	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
4/15/2024 14:38	15702	TANN_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
4/15/2024 14:39	67804	WLAN_T1	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
4/15/2024 14:39	55102	WERT_T2	0	0	0	0	0	0	0	4	4	4	0	2400	2400	0
4/15/2024 14:40	56801	BENV_T1	23	28	5	0.74	0.78	0.04	-0.73	-0.75	1	1	0	600	600	0
4/15/2024 14:40	56803	BENV_T1	7	7	0	0.59	0.67	0.08	0	0	0	0	0	0	0	0
4/15/2024 14:41	67803	WLAN_T1	0	0	0	0	0	0	-1.5	-1.63	0	0	0	0	0	0
4/15/2024 14:42	56802	BENV_T2	2	3	1	1.15	0.87	-0.28	-0.63	-0.58	0	0	0	0	0	0
4/15/2024 14:42	56803	BENV_T1	7	7	0	0.59	0.67	0.08	0	0	0	0	0	0	0	0
4/15/2024 14:42	45902	AUBU_T1	1	1	0	0.3	0.7	0.4	-0.7	-0.7	1	1	0	600	600	0
4/15/2024 14:42	56801	BENV_T1	23	28	5	0.74	0.78	0.04	-0.73	-0.75	1	1	0	600	600	0
4/15/2024 14:44	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 14:44	64204	KINZ_T1	2	2	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
4/15/2024 14:44	64201	KINZ_T1	0	0	0	0	0	0	-0.74	-0.74	4	4	0	2100	2100	0
4/15/2024 14:45	24701	FLND_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
4/15/2024 14:45	24703	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 14:45	24702	FLND_T2	1	4	3	0.1	0.73	0.63	0	0	0	0	0	0	0	0
4/15/2024 14:45	26402	INOR_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
4/15/2024 14:45	26401	INOR_T1	3	1	-2	3.03	8.8	5.77	1.32	1.37	0	0	0	0	0	0
4/15/2024 14:46	53502	EVIL_T2	0	0	0	0	0	0	0.07	0.07	2	2	0	1200	1200	0
4/15/2024 14:46	53501	EVIL_T2	6	9	3	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
4/15/2024 14:47	45902	AUBU_T1	1	1	0	0.7	1.1	0.4	-0.7	-0.7	1	1	0	600	600	0
4/15/2024 14:48	64305	LINC_T1	0	0	0	0	0	0	0.23	0.13	0	0	0	0	0	0
4/15/2024 14:51	66701	STRA_T1	0	0	0	0	0	0	-0.13	-0.11	1	1	0	600	600	0
4/15/2024 14:53	66703	STRA_T1	0	0	0	0	0	0	0	-0.05	0	0	0	0	0	0
4/15/2024 14:53	45902	AUBU_T1	1	1	0	0.7	1.1	0.4	-0.7	-0.68	1	1	0	600	600	0
4/15/2024 14:53	24801	VALM_T1	1	1	0	0.8	0.3	-0.5	-0.25	-0.33	0	0	0	0	0	0
4/15/2024 14:58	45902	AUBU_T1	1	1	0	0.7	1.1	0.4	-0.7	-0.68	1	1	0	600	600	0
4/15/2024 14:59	20601	GRWO_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/15/2024 14:59	20603	GRWO_T2	2	3	1	0.2	0.63	0.43	0.41	0.36	0	0	0	0	0	0
4/15/2024 14:59	51102	CARL_T1	0	6	6	0	0.47	0.47	0	0	0	0	0	0	0	0
4/15/2024 14:59	51101	CARL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 14:59	51109	CARL_T1	0	0	0	0	0	0	-0.92	-0.91	1	1	0	1200	1200	0
4/15/2024 14:59	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 15:00	51102	CARL_T1	0	6	6	0	0.47	0.47	0	0	0	0	0	0	0	0
4/15/2024 15:00	51101	CARL_T1	0	2	2	0	0.2	0.2	-1.11	-0.9	1	1	0	600	600	0
4/15/2024 15:00	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/15/2024 15:05	13302	ORVI_T2	1	1	0	2.5	2.5	0	1.2	1.18	0	0	0	0	0	0
4/15/2024 15:08	67803	WLAN_T1	0	1	1	0	0.2	0.2	-0.75	-0.73	0	0	0	0	0	0
4/15/2024 15:08	67804	WLAN_T1	0	5	5	0	0.32	0.32	-0.9	-0.88	0	0	0	0	0	0
4/15/2024 15:09	45902	AUBU_T1	1	1	0	0.1	1.1	1	-0.68	-0.66	1	1	0	600	600	0
4/15/2024 15:09	67803	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 15:09	67804	WLAN_T1	0	5	5	0	0.32	0.32	-0.9	-0.88	0	0	0	0	0	0
4/15/2024 15:10	67804	WLAN_T1	0	5	5	0	0.32	0.32	-0.9	-0.88	0	0	0	0	0	0
4/15/2024 15:10	67803	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 15:11	20401	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 15:11	20403	ASHF_T2	1	5	4	0.7	0.32	-0.38	1.02	0.83	0	0	0	0	0	0
4/15/2024 15:12	63306	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 15:12	45801	HEGI_T1	0	0	0	0	0	0	-0.09	-0.13	1	1	0	900	900	0
4/15/2024 15:12	63305	GREE_T1	1	2	1	0.2	0.2	0	-1.8	-1.73	1	1	0	900	900	0
4/15/2024 15:13	45801	HEGI_T1	0	0	0	0	0	0	-0.09	-0.13	1	1	0	900	900	0
4/15/2024 15:13	67803	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 15:13	67804	WLAN_T1	0	5	5	0	0.32	0.32	-0.9	-0.88	0	0	0	0	0	0
4/15/2024 15:14	20601	GRWO_T2	0	1	1	0	0.8	0.8	0.04	0.03	0	0	0	0	0	0
4/15/2024 15:14	20603	GRWO_T2	1	3	2	0.2	0.63	0.43	0	0	0	0	0	0	0	0
4/15/2024 15:14	45902	AUBU_T1	1	1	0	0.1	1.1	1	-0.68	-0.66	1	1	0	600	600	0
4/15/2024 15:17	65303	NBRI_T2	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
4/15/2024 15:19	66303	MCGO_T2	3	1	-2	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
4/15/2024 15:19	66302	MCGO_T2	1	1	0	0.3	0.3	0	-1.78	-2.12	2	2	0	1200	1200	0
4/15/2024 15:22	63306	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 15:22	63305	GREE_T1	2	1	-1	0.2	0.2	0	-1.8	-1.73	1	1	0	900	900	0
4/15/2024 15:24	46001	BERW_T1	0	1	1	0	0.1	0.1	1.11	1.03	0	0	0	0	0	0
4/15/2024 15:24	46005	BERW_T1	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
4/15/2024 15:24	45902	AUBU_T1	1	1	0	1.1	0.7	-0.4	-0.66	-0.75	1	1	0	600	600	0
4/15/2024 15:25	67804	WLAN_T1	5	2	-3	0.3	0.3	0	0	0	0	0	0	0	0	0
4/15/2024 15:25	67803	WLAN_T1	1	1	0	0.2	0.2	0	-0.73	-0.76	0	0	0	0	0	0
4/15/2024 15:27	46401	FLEM_T2	22	7	-15	0.25	0.22	-0.03	0.55	0.53	0	0	0	0	0	0
4/15/2024 15:27	41802	GOCI_T2	16	2	-14	0.26	0.15	-0.11	0	0	0	0	0	0	0	0
4/15/2024 15:27	46402	FLEM_T2	24	20	-4	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/15/2024 15:27	41801	GOCI_T2	300	49	-251	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
4/15/2024 15:29	67703	WERN_T2	3	2	-1	0.7	0.7	0	0.03	0.03	1	1	0	900	900	0
4/15/2024 15:29	67701	WERN_T2	3	2	-1	0.6	0.65	0.05	0	0	0	0	0	0	0	0
4/15/2024 15:29	41002	LAUR_T2	15	3	-12	0.34	1	0.66	0.13	0.14	0	0	0	0	0	0
4/15/2024 15:29	41001	LAUR_T2	56	5	-51	0.26	0.92	0.66	0	0	0	0	0	0	0	0
4/15/2024 15:29	67702	WERN_T2	3	3	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/15/2024 15:30	45902	AUBU_T1	1	1	0	0.7	0.4	-0.3	-0.66	-0.75	1	1	0	600	600	0
4/15/2024 15:30	23901	EFMO_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/15/2024 15:30	41801	GOCI_T2	7	49	42	0.43	0.25	-0.18	0	0	0	0	0	0	0	0
4/15/2024 15:30	51402	LYKE_T1	3	0	-3	0.17	0	-0.17	-1.84	-1.33	2	1	-1	1200	600	-600
4/15/2024 15:30	41802	GOCI_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/15/2024 15:34	51402	LYKE_T1	3	0	-3	0.17	0	-0.17	-1.84	-1.33	2	1	-1	1200	600	-600
4/15/2024 15:36	40601	PIGR_T1	153	170	17	0.37	0.47	0.1	0	0	0	0	0	0	0	0
4/15/2024 15:36	40602	PIGR_T1	1	0	-1	0.2	0	-0.2	0.11	0.14	1	1	0	600	600	0
4/15/2024 15:36	40603	PIGR_T1	2	2	0	0.35	0.75	0.4	0	0	0	0	0	0	0	0
4/15/2024 15:41	41802	GOCI_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/15/2024 15:41	41801	GOCI_T2	7	49	42	0.43	0.25	-0.18	0	0	0	0	0	0	0	0
4/15/2024 15:42	41802	GOCI_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/15/2024 15:42	41801	GOCI_T2	7	49	42	0.43	0.25	-0.18	0	0	0	0	0	0	0	0
4/15/2024 15:42	64101	REFR_T1	0	0	0	0	0	0	-0.49	-0.57	0	0	0	0	0	0
4/15/2024 15:45	41502	FAIR_T2	0	5	5	0	0.14	0.14	-0.65	-0.65	0	0	0	0	0	0
4/15/2024 15:48	63305	GREE_T1	1	12	11	0.2	0.36	0.16	-1.93	-2.02	1	1	0	900	900	0
4/15/2024 15:49	41205	KENM_T2	0	0	0	0	0	0	-0.83	-0.85	1	1	0	600	600	0
4/15/2024 15:49	41202	KENM_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/15/2024 15:51	44505	HAMI_T2	1	5	4	0.3	0.16	-0.14	1.26	1.27	0	0	0	0	0	0
4/15/2024 15:51	44502	HAMI_T2	3	3	0	1.2	1.27	0.07	0	0	0	0	0	0	0	0
4/15/2024 15:53	20401	ASHF_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/15/2024 15:53	20403	ASHF_T2	8	5	-3	0.34	0.6	0.26	0.77	0.66	0	0	0	0	0	0
4/15/2024 15:54	67805	WLAN_T1	0	0	0	0	0	0	-1.1	-1.17	0	0	0	0	0	0
4/15/2024 15:54	67803	WLAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/15/2024 15:54	67801	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 15:55	20403	ASHF_T2	8	5	-3	0.34	0.6	0.26	0.77	0.66	0	0	0	0	0	0
4/15/2024 15:55	20401	ASHF_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/15/2024 15:56	23902	EFMO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 15:56	44502	HAMI_T2	3	3	0	1.2	1.27	0.07	0	0	0	0	0	0	0	0
4/15/2024 15:56	42701	AUGU_T1	0	3	3	0	0.27	0.27	0	0	2	2	0	1800	1800	0
4/15/2024 15:56	23901	EFMO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/15/2024 15:56	45902	AUBU_T1	1	1	0	0.4	0.8	0.4	-0.75	-0.8	1	1	0	600	600	0
4/15/2024 15:56	44505	HAMI_T2	1	5	4	0.3	0.16	-0.14	0.64	0.68	0	0	0	0	0	0
4/15/2024 15:57	41601	CLEV_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/15/2024 15:57	41602	CLEV_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/15/2024 15:58	41602	CLEV_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/15/2024 15:58	41601	CLEV_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/15/2024 15:59	41602	CLEV_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/15/2024 15:59	41601	CLEV_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/15/2024 16:00	41502	FAIR_T2	0	5	5	0	0.14	0.14	-0.65	-0.65	0	0	0	0	0	0
4/15/2024 16:01	45902	AUBU_T1	0	1	1	0	0.8	0.8	-0.75	-0.8	1	1	0	600	600	0
4/15/2024 16:01	41502	FAIR_T2	0	5	5	0	0.14	0.14	-0.65	-0.65	0	0	0	0	0	0
4/15/2024 16:04	12502	MITR_T2	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
4/15/2024 16:04	12505	MITR_T2	1	0	-1	0.2	0	-0.2	0.96	0.9	0	0	0	0	0	0
4/15/2024 16:05	45602	WOOL_T1	5	8	3	0.28	0.45	0.17	0.62	0.48	0	0	0	0	0	0
4/15/2024 16:07	44302	BEAV_T2	9	6	-3	0.41	0.32	-0.09	0.64	0.58	0	0	0	0	0	0
4/15/2024 16:07	44301	BEAV_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
4/15/2024 16:09	67805	WLAN_T1	0	0	0	0	0	0	-1.17	-1.19	0	0	0	0	0	0
4/15/2024 16:09	67804	WLAN_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
4/15/2024 16:09	67801	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 16:14	44302	BEAV_T2	9	6	-3	0.41	0.32	-0.09	0	0	0	0	0	0	0	0
4/15/2024 16:14	40101	HUNT_T2	0	0	0	0	0	0	-0.36	-0.41	0	0	0	0	0	0
4/15/2024 16:14	44301	BEAV_T2	2	1	-1	0.25	0.1	-0.15	0.43	0.54	1	1	0	600	600	0
4/15/2024 16:15	59002	MIFF_T1	3	5	2	0.1	0.44	0.34	0	0	0	0	0	0	0	0
4/15/2024 16:15	59001	MIFF_T1	3	3	0	0.83	0.6	-0.23	0	0	0	0	0	0	0	0
4/15/2024 16:15	59003	MIFF_T1	0	0	0	0	0	0	-0.3	-0.37	0	0	0	0	0	0
4/15/2024 16:28	63305	GREE_T1	12	11	-1	0.36	0.35	-0.01	0	0	0	0	0	0	0	0
4/15/2024 16:28	63306	GREE_T1	0	0	0	0	0	0	-0.92	-0.89	0	0	0	0	0	0
4/15/2024 16:34	52004	LING_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
4/15/2024 16:34	52002	LING_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/15/2024 16:36	43801	SWIL_T1	9	14	5	0.81	0.58	-0.23	0	0	0	0	0	0	0	0
4/15/2024 16:36	43802	SWIL_T1	1	1	0	0.9	0.8	-0.1	-0.09	-0.12	1	1	0	600	600	0
4/15/2024 16:38	45902	AUBU_T1	1	1	0	0.4	0.4	0	-0.81	-0.86	1	1	0	600	600	0
4/15/2024 16:40	46001	BERW_T1	2	1	-1	0.2	0.4	0.2	0.67	0.56	0	0	0	0	0	0
4/15/2024 16:40	64101	REFR_T1	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
4/15/2024 16:40	46005	BERW_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/15/2024 16:41	46005	BERW_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/15/2024 16:41	64101	REFR_T1	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
4/15/2024 16:41	46001	BERW_T1	2	1	-1	0.2	0.4	0.2	0.67	0.56	0	0	0	0	0	0
4/15/2024 16:43	45902	AUBU_T1	1	1	0	0.4	0.4	0	-0.81	-0.86	1	1	0	600	600	0
4/15/2024 16:45	46001	BERW_T1	1	8	7	0.4	0	-0.4	0.67	0.56	0	0	0	0	0	0
4/15/2024 16:45	46005	BERW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/15/2024 16:46	46005	BERW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/15/2024 16:46	46001	BERW_T1	1	8	7	0.4	0	-0.4	0.67	0.56	0	0	0	0	0	0
4/15/2024 16:55	24702	FLND_T2	2	2	0	0.2	0.1	-0.1	0.61	0.83	0	0	0	0	0	0
4/15/2024 17:02	66302	MCGO_T2	0	0	0	0	0	0	-1.13	-1.13	1	1	0	600	600	0
4/15/2024 17:02	66303	MCGO_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/15/2024 17:08	64101	REFR_T1	0	0	0	0	0	0	-0.73	-0.64	0	0	0	0	0	0
4/15/2024 17:09	61102	BERK_T5	3	2	-1	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
4/15/2024 17:09	61103	BERK_T5	2	1	-1	0.25	0.2	-0.05	0.3	0.33	0	0	0	0	0	0
4/15/2024 17:10	60605	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 17:12	46001	BERW_T1	0	8	8	0	4.19	4.19	0.52	0.51	0	0	0	0	0	0
4/15/2024 17:13	61102	BERK_T5	3	2	-1	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
4/15/2024 17:13	61103	BERK_T5	2	1	-1	0.25	0.2	-0.05	0.15	0.16	0	0	0	0	0	0
4/15/2024 17:17	63401	HONY_T1	0	0	0	0	0	0	0.05	-0.05	1	1	0	600	600	0
4/15/2024 17:17	46001	BERW_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
4/15/2024 17:19	66202	SISP_T2	0	0	0	0	0	0	-0.49	-0.53	0	0	0	0	0	0
4/15/2024 17:20	65001	NEFF_T2	0	0	0	0	0	0	-0.42	-0.41	1	1	0	1200	1200	0
4/15/2024 17:20	65003	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/15/2024 17:25	61103	BERK_T5	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/15/2024 17:25	61102	BERK_T5	2	0	-2	0.15	0	-0.15	0.83	0.81	1	1	0	300	300	0
4/15/2024 17:27	61102	BERK_T5	2	0	-2	0.15	0	-0.15	0.83	0.81	1	1	0	300	300	0
4/15/2024 17:27	61103	BERK_T5	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/15/2024 17:27	12003	HATF_T1	0	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0
4/15/2024 17:27	12006	HATF_T1	0	0	0	0	0	0	0.64	0.67	1	1	0	1200	1200	0
4/15/2024 17:28	61103	BERK_T5	1	0	-1	0.2	0	-0.2	0.16	0.18	0	0	0	0	0	0
4/15/2024 17:28	61102	BERK_T5	2	0	-2	0.15	0	-0.15	0.83	0.81	1	1	0	300	300	0
4/15/2024 17:29	61103	BERK_T5	1	0	-1	0.2	0	-0.2	0.16	0.18	0	0	0	0	0	0
4/15/2024 17:29	61102	BERK_T5	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/15/2024 17:31	46001	BERW_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
4/15/2024 17:42	61102	BERK_T5	0	0	0	0	0	0	0.81	0.79	1	1	0	300	300	0
4/15/2024 17:43	40101	HUNT_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
4/15/2024 17:47	40101	HUNT_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
4/15/2024 17:55	20401	ASHF_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/15/2024 17:55	10801	CHHI_T1	0	103	103	0	0.39	0.39	-0.82	-1.3	2	2	0	1500	1500	0
4/15/2024 17:55	20403	ASHF_T2	0	0	0	0	0	0	0.12	0.16	0	0	0	0	0	0
4/15/2024 17:55	20402	ASHF_T2	1	0	-1	6.1	0	-6.1	0	0	0	0	0	0	0	0
4/15/2024 17:59	46001	BERW_T1	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
4/15/2024 18:05	46001	BERW_T1	2	0	-2	0.25	0	-0.25	0.52	0.49	0	0	0	0	0	0
4/15/2024 18:05	67204	TEHI_T2	0	5	5	0	0.1	0.1	0.17	0.18	0	0	0	0	0	0
4/15/2024 18:09	45902	AUBU_T1	0	5	5	0	0.14	0.14	-0.95	-0.96	1	1	0	600	600	0
4/15/2024 18:11	64402	LAND_T2	0	0	0	0	0	0	-0.26	-0.26	1	1	0	600	600	0
4/15/2024 18:12	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 18:12	61103	BERK_T5	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
4/15/2024 18:13	64401	LAND_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/15/2024 18:13	64403	LAND_T1	0	0	0	0	0	0	-1.48	-1.43	1	1	0	900	900	0
4/15/2024 18:14	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 18:14	26703	HEML_T1	0	0	0	0	0	0	-0.97	-0.98	1	1	0	600	600	0
4/15/2024 18:14	61103	BERK_T5	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
4/15/2024 18:15	46001	BERW_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
4/15/2024 18:20	59202	THOM_T1	88	34	-54	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
4/15/2024 18:20	59201	THOM_T1	9	5	-4	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
4/15/2024 18:20	46001	BERW_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
4/15/2024 18:23	59201	THOM_T1	9	5	-4	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
4/15/2024 18:23	13606	RICH_T2	1	1	0	7.2	7.3	0.1	1.07	1.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/15/2024 18:23	59202	THOM_T1	88	34	-54	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
4/15/2024 18:29	41305	FISH_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/15/2024 18:29	41301	FISH_T1	78	8	-70	0.19	0.65	0.46	-0.08	-0.09	0	0	0	0	0	0
4/15/2024 18:30	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
4/15/2024 18:33	63403	HONY_T2	0	0	0	0	0	0	-0.58	-0.6	1	1	0	600	600	0
4/15/2024 18:33	63402	HONY_T2	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
4/15/2024 18:38	57002	WHHI_T2	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
4/15/2024 18:42	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
4/15/2024 18:42	63801	HEMP_T1	0	0	0	0	0	0	-0.11	-0.16	0	0	0	0	0	0
4/15/2024 18:46	23202	HIRU_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
4/15/2024 18:50	40601	PIGR_T1	143	163	20	0.25	0.28	0.03	0	0	0	0	0	0	0	0
4/15/2024 18:50	40602	PIGR_T1	0	0	0	0	0	0	0.19	0.12	1	1	0	600	600	0
4/15/2024 18:56	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/15/2024 19:01	57304	MOAL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/15/2024 19:01	57306	MOAL_T2	0	0	0	0	0	0	-3.05	-3.08	1	1	0	1200	1200	0
4/15/2024 19:01	57303	MOAL_T2	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
4/15/2024 19:05	57303	MOAL_T2	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
4/15/2024 19:05	57306	MOAL_T2	0	0	0	0	0	0	-3.05	-3.08	1	1	0	1200	1200	0
4/15/2024 19:05	57304	MOAL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/15/2024 19:18	46506	LOHA_T1	5	1	-4	5.02	0.3	-4.72	-0.44	-0.43	0	0	0	0	0	0
4/15/2024 19:18	46504	LOHA_T1	2	2	0	1.4	0.9	-0.5	0	0	0	0	0	0	0	0
4/15/2024 19:20	43802	SWIL_T1	0	0	0	0	0	0	-0.1	-0.1	1	1	0	600	600	0
4/15/2024 19:20	43801	SWIL_T1	19	12	-7	0.49	0.65	0.16	0	0	0	0	0	0	0	0
4/15/2024 19:24	43801	SWIL_T1	19	12	-7	0.49	0.65	0.16	0	0	0	0	0	0	0	0
4/15/2024 19:24	43802	SWIL_T1	0	0	0	0	0	0	-0.1	-0.1	1	1	0	600	600	0
4/15/2024 19:46	45602	WOOL_T1	2	2	0	0.15	0.5	0.35	0.42	0.42	0	0	0	0	0	0
4/15/2024 20:18	45702	LIND_T2	1	1	0	2	0.9	-1.1	-0.58	-0.56	0	0	0	0	0	0
4/15/2024 20:22	51204	MTON_T2	0	0	0	0	0	0	-0.69	-0.7	1	1	0	900	900	0
4/15/2024 20:23	57401	SPAN_T1	1	0	-1	0.1	0	-0.1	-0.83	-0.73	1	1	0	600	600	0
4/15/2024 20:25	57401	SPAN_T1	1	0	-1	0.1	0	-0.1	-1.66	-1.46	2	2	0	1200	1200	0
4/15/2024 20:26	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 20:26	57401	SPAN_T1	1	0	-1	0.1	0	-0.1	-0.83	-0.73	1	1	0	600	600	0
4/15/2024 20:28	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 20:29	41501	FAIR_T2	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
4/15/2024 20:50	42902	MIDD_T2	21	16	-5	0.32	0.21	-0.11	-0.37	-0.36	0	0	0	0	0	0
4/15/2024 20:50	42903	MIDD_T2	11	2	-9	0.55	2.05	1.5	0	0	0	0	0	0	0	0
4/15/2024 20:50	42901	MIDD_T2	102	60	-42	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
4/15/2024 21:08	52502	PROG_T2	0	0	0	0	0	0	-0.61	-0.61	1	1	0	900	900	0
4/15/2024 21:09	52502	PROG_T2	0	0	0	0	0	0	-0.61	-0.61	1	1	0	900	900	0
4/15/2024 21:16	46903	MNTG_T2	0	0	0	0	0	0	-0.31	-0.28	1	1	0	600	600	0
4/15/2024 21:30	41502	FAIR_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
4/15/2024 21:33	52501	PROG_T1	0	0	0	0	0	0	0.42	0.47	1	1	0	300	300	0
4/15/2024 21:37	52501	PROG_T1	0	0	0	0	0	0	0.42	0.47	1	1	0	300	300	0
4/15/2024 21:37	13606	RICH_T2	1	1	0	6.6	6.5	-0.1	0.89	0.94	0	0	0	0	0	0
4/15/2024 21:37	52502	PROG_T2	0	0	0	0	0	0	-1.21	-1.26	2	2	0	1800	1800	0
4/15/2024 21:38	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/15/2024 21:38	13502	MCMI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:39	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/15/2024 21:39	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/15/2024 21:39	13502	MCMI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:39	65503	MOJO_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
4/15/2024 21:40	55001	NEWP_T1	0	31	31	0	0.17	0.17	-0.19	-0.2	0	0	0	0	0	0
4/15/2024 21:40	55002	NEWP_T1	4	6	2	0.6	0.92	0.32	0	0	0	0	0	0	0	0
4/15/2024 21:41	61303	EARL_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
4/15/2024 21:41	17002	RIRO_T2	31	134	103	0.16	0.19	0.03	0.33	0.31	0	0	0	0	0	0
4/15/2024 21:41	14801	TREI_T2	17	147	130	0.12	0.19	0.07	0.36	0.35	0	0	0	0	0	0
4/15/2024 21:41	14802	TREI_T2	13	33	20	0.16	0.22	0.06	0	0	0	0	0	0	0	0
4/15/2024 21:42	52502	PROG_T2	0	0	0	0	0	0	-0.63	-0.63	1	0	-1	900	0	-900
4/15/2024 21:42	65001	NEFF_T2	0	4	4	0	0.1	0.1	-0.83	-0.81	1	1	0	1200	1200	0
4/15/2024 21:42	15701	TANN_T1	30	74	44	0.34	0.24	-0.1	0	0	0	0	0	0	0	0
4/15/2024 21:42	15704	TANN_T1	206	290	84	0.28	0.42	0.14	-1.45	-1.44	0	0	0	0	0	0
4/15/2024 21:43	67804	WLAN_T1	0	1	1	0	0.1	0.1	-1.04	-1.02	0	0	0	0	0	0
4/15/2024 21:43	67805	WLAN_T1	336	459	123	0.22	0.31	0.09	0	0	0	0	0	0	0	0
4/15/2024 21:43	20401	ASHF_T2	2	2	0	0.1	0.15	0.05	-0.33	-0.37	0	0	0	0	0	0
4/15/2024 21:43	13502	MCMI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:43	23202	HIRU_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
4/15/2024 21:43	67802	WLAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:43	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/15/2024 21:43	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-0.97	0	0	0	0	0	0
4/15/2024 21:43	67803	WLAN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/15/2024 21:43	66903	SHIL_T2	1	1	0	0.4	0.1	-0.3	-1.62	-1.61	0	0	0	0	0	0
4/15/2024 21:43	16302	ALPA_T2	0	0	0	0	0	0	-0.69	0.62	0	0	0	0	0	0
4/15/2024 21:43	64704	LITI_T1	0	0	0	0	0	0	0.99	0.97	0	0	0	0	0	0
4/15/2024 21:43	12701	MACU_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
4/15/2024 21:44	67702	WERN_T2	0	0	0	0	0	0	-0.02	-0.18	0	0	0	0	0	0
4/15/2024 21:44	45902	AUBU_T1	7	11	4	0.2	0.11	-0.09	-1.11	-0.49	1	0	-1	600	0	-600
4/15/2024 21:44	67703	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:44	28805	LAKE_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
4/15/2024 21:44	13302	ORVI_T2	32	56	24	0.24	0.21	-0.03	1.06	0.98	0	0	0	0	0	0
4/15/2024 21:44	28703	HAML_T2	3	3	0	1	1.13	0.13	0	0	0	0	0	0	0	0
4/15/2024 21:44	51002	NHAR_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
4/15/2024 21:44	26703	HEML_T1	0	0	0	0	0	0	-0.99	-0.99	1	1	0	600	600	0
4/15/2024 21:44	66703	STRA_T1	6	28	22	0.2	0.31	0.11	-0.34	-0.38	0	0	0	0	0	0
4/15/2024 21:44	28704	HAML_T2	1	1	0	1.1	1.2	0.1	-0.01	-0.01	0	0	0	0	0	0
4/15/2024 21:44	51004	NHAR_T1	4	7	3	1.7	1.14	-0.56	-0.43	-0.43	0	0	0	0	0	0
4/15/2024 21:44	16302	ALPA_T2	0	0	0	0	0	0	-0.69	0.62	0	0	0	0	0	0
4/15/2024 21:44	51003	NHAR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:44	21901	HUMB_T1	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
4/15/2024 21:45	12801	MICK_T1	0	0	0	0	0	0	-0.22	-0.23	1	1	0	600	600	0
4/15/2024 21:45	67801	WLAN_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:45	66504	SMAN_T2	0	0	0	0	0	0	-1	-1.09	0	0	0	0	0	0
4/15/2024 21:45	66505	SMAN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/15/2024 21:45	67805	WLAN_T1	337	533	196	0.24	0.48	0.24	-1.41	-1.43	0	0	0	0	0	0
4/15/2024 21:45	12803	MICK_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/15/2024 21:45	21206	ECAR_T2	1	1	0	8.1	8.2	0.1	1.21	1.16	0	0	0	0	0	0
4/15/2024 21:45	67802	WLAN_T1	0	11	11	0	0.16	0.16	0	0	0	0	0	0	0	0
4/15/2024 21:45	67502	WEWI_T2	0	0	0	0	0	0	-0.42	-0.39	0	0	0	0	0	0
4/15/2024 21:45	67803	WLAN_T1	0	10	10	0	0.14	0.14	0	0	0	0	0	0	0	0
4/15/2024 21:45	12807	MICK_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 21:45	24701	FLND_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
4/15/2024 21:45	67804	WLAN_T1	0	44	44	0	0.14	0.14	0	0	0	0	0	0	0	0
4/15/2024 21:45	21204	ECAR_T2	1	2	1	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:46	67502	WEWI_T2	0	0	0	0	0	0	-0.42	-0.39	0	0	0	0	0	0
4/15/2024 21:46	46002	BERW_T2	0	0	0	0	0	0	-1.15	-0.16	1	0	-1	900	0	-900
4/15/2024 21:46	67805	WLAN_T1	337	533	196	0.24	0.48	0.24	0	0	0	0	0	0	0	0
4/15/2024 21:46	26402	INOR_T1	5	12	7	0.14	0.24	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:46	60101	COCA_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
4/15/2024 21:46	67802	WLAN_T1	0	11	11	0	0.16	0.16	0	0	0	0	0	0	0	0
4/15/2024 21:46	56802	BENV_T2	25	146	121	0.18	0.25	0.07	-0.79	-0.78	0	0	0	0	0	0
4/15/2024 21:46	43802	SWIL_T1	0	0	0	0	0	0	-0.22	-0.23	1	1	0	600	600	0
4/15/2024 21:46	57002	WHHI_T2	0	0	0	0	0	0	-1.42	-0.05	1	0	-1	1200	0	-1200
4/15/2024 21:46	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:46	67803	WLAN_T1	0	10	10	0	0.14	0.14	0	0	0	0	0	0	0	0
4/15/2024 21:46	26401	INOR_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
4/15/2024 21:46	41801	GOCI_T2	52	130	78	0.18	0.27	0.09	0	0	0	0	0	0	0	0
4/15/2024 21:46	67801	WLAN_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:46	45902	AUBU_T1	11	0	-11	0.11	0	-0.11	-1.11	-0.49	1	0	-1	600	0	-600
4/15/2024 21:46	41802	GOCI_T2	20	18	-2	0.27	0.31	0.04	0	0	0	0	0	0	0	0
4/15/2024 21:46	67804	WLAN_T1	0	44	44	0	0.14	0.14	-1.04	-1.02	0	0	0	0	0	0
4/15/2024 21:46	43801	SWIL_T1	2	10	8	3.35	0.82	-2.53	0	0	0	0	0	0	0	0
4/15/2024 21:46	23001	SAJO_T1	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
4/15/2024 21:46	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:47	25402	LAHA_T2	0	0	0	0	0	0	-0.9	-0.93	0	0	0	0	0	0
4/15/2024 21:47	20401	ASHF_T2	1	2	1	0	0.15	0.15	0	0	0	0	0	0	0	0
4/15/2024 21:47	63403	HONY_T2	1	1	0	4.6	0	-4.6	0.02	0	0	0	0	0	0	0
4/15/2024 21:47	45902	AUBU_T1	11	0	-11	0.11	0	-0.11	-1.11	-0.49	1	0	-1	600	0	-600
4/15/2024 21:47	67801	WLAN_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:47	46004	BERW_T2	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
4/15/2024 21:47	61103	BERK_T5	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
4/15/2024 21:47	45901	AUBU_T1	0	0	0	0	0	0	1.91	1.73	0	0	0	0	0	0
4/15/2024 21:47	67803	WLAN_T1	0	10	10	0	0.14	0.14	0	0	0	0	0	0	0	0
4/15/2024 21:47	15603	NSTR_T2	2	2	0	0.1	0.1	0	-0.62	-0.61	0	0	0	0	0	0
4/15/2024 21:47	47001	HUGH_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
4/15/2024 21:47	20403	ASHF_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
4/15/2024 21:47	11507	FREE_T2	0	0	0	0	0	0	0.95	0.92	0	0	0	0	0	0
4/15/2024 21:47	67805	WARW_T1	8	13	5	0.25	0.39	0.14	-1.11	-1.12	0	0	0	0	0	0
4/15/2024 21:47	24105	EHAZ_T1	4	4	0	5.6	5.83	0.23	0	0	0	0	0	0	0	0
4/15/2024 21:47	63402	HONY_T2	1	1	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
4/15/2024 21:47	45801	HEGI_T1	0	0	0	0	0	0	-0.06	-0.21	1	1	0	900	900	0
4/15/2024 21:47	64101	REFR_T1	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
4/15/2024 21:47	67805	WLAN_T1	337	533	196	0.24	0.48	0.24	0	0	0	0	0	0	0	0
4/15/2024 21:47	24103	EHAZ_T1	0	0	0	0	0	0	-0.38	-0.32	0	0	0	0	0	0
4/15/2024 21:47	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:47	15601	NSTR_T2	7	3	-4	0.7	1	0.3	0	0	0	0	0	0	0	0
4/15/2024 21:47	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:47	67804	WLAN_T1	0	44	44	0	0.14	0.14	-1.04	-1.02	0	0	0	0	0	0
4/15/2024 21:47	24104	EHAZ_T1	0	0	0	0	0	0	-0.92	-1	1	1	0	1200	1200	0
4/15/2024 21:47	47002	HUGH_T2	0	11	11	0	0.17	0.17	0	0	0	0	0	0	0	0
4/15/2024 21:47	15001	BLMO_T1	4	4	0	0.4	0.68	0.28	0	0	0	0	0	0	0	0
4/15/2024 21:47	25404	LAHA_T2	15	74	59	0.1	0.12	0.02	0	0	0	0	0	0	0	0
4/15/2024 21:47	67802	WLAN_T1	0	11	11	0	0.16	0.16	0	0	0	0	0	0	0	0
4/15/2024 21:48	55003	NEWP_T2	4	8	4	0.13	0.39	0.26	-0.23	-0.23	0	0	0	0	0	0
4/15/2024 21:48	22003	BOHE_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
4/15/2024 21:48	40602	PIGR_T1	0	0	0	0	0	0	0.67	0.65	0	0	0	0	0	0
4/15/2024 21:48	64801	MONE_T2	1	1	0	0.1	0.6	0.5	0.27	0.26	0	0	0	0	0	0
4/15/2024 21:48	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:48	24901	WHHA_T1	131	17	-114	0.2	0.11	-0.09	0	0	0	0	0	0	0	0
4/15/2024 21:48	41305	FISH_T1	19	29	10	0.16	0.16	0	0	0	0	0	0	0	0	0
4/15/2024 21:48	67703	WERN_T2	0	0	0	0	0	0	-0.24	-0.24	1	1	0	900	900	0
4/15/2024 21:48	46802	HEPB_T1	1	1	0	1.4	1.6	0.2	-0.36	-0.37	0	0	0	0	0	0
4/15/2024 21:48	44201	POIN_T1	66	325	259	0.15	0.26	0.11	-2.14	-2.34	2	2	0	2100	2100	0
4/15/2024 21:48	40601	PIGR_T1	129	103	-26	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
4/15/2024 21:48	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/15/2024 21:48	24902	WHHA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:48	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
4/15/2024 21:48	60801	BUCK_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
4/15/2024 21:48	67604	WARW_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
4/15/2024 21:48	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:48	41301	FISH_T1	141	199	58	0.2	0.28	0.08	-0.05	-0.07	0	0	0	0	0	0
4/15/2024 21:48	60701	BREC_T1	0	0	0	0	0	0	-0.54	-0.54	1	1	0	600	600	0
4/15/2024 21:48	53901	HALI_T2	1	1	0	0.7	1	0.3	-0.45	-0.45	0	0	0	0	0	0
4/15/2024 21:48	61103	BERK_T5	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
4/15/2024 21:48	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.09	0	0	0	0	0	0
4/15/2024 21:48	60803	BUCK_T1	0	2	2	0	0.1	0.1	-1.19	-1.22	1	1	0	600	600	0
4/15/2024 21:48	63602	LETO_T1	0	14	14	0	0.11	0.11	-0.28	-0.32	0	0	0	0	0	0
4/15/2024 21:48	67605	WARW_T1	8	13	5	0.25	0.39	0.14	0	0	0	0	0	0	0	0
4/15/2024 21:48	53903	HALI_T2	2	2	0	1.45	1.5	0.05	0	0	0	0	0	0	0	0
4/15/2024 21:49	24901	WHHA_T1	131	17	-114	0.2	0.11	-0.09	0	0	0	0	0	0	0	0
4/15/2024 21:49	67703	WERN_T2	0	0	0	0	0	0	-0.24	-0.24	1	1	0	900	900	0
4/15/2024 21:49	60701	BREC_T1	0	0	0	0	0	0	-0.54	-0.54	1	1	0	600	600	0
4/15/2024 21:49	67803	WLAN_T1	0	10	10	0	0.14	0.14	-0.82	-0.82	0	0	0	0	0	0
4/15/2024 21:49	67802	WLAN_T1	0	11	11	0	0.16	0.16	0	0	0	0	0	0	0	0
4/15/2024 21:49	64101	REFR_T1	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
4/15/2024 21:49	24105	EHAZ_T1	4	4	0	5.6	5.83	0.23	0	0	0	0	0	0	0	0
4/15/2024 21:49	24702	FLND_T2	0	0	0	0	0	0	0.86	0.94	0	0	0	0	0	0
4/15/2024 21:49	56803	BENV_T1	5	5	0	0.56	0.72	0.16	0	0	0	0	0	0	0	0
4/15/2024 21:49	61303	EARL_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
4/15/2024 21:49	40303	TAMA_T3	15	19	4	0.45	0.45	0	0	0	0	0	0	0	0	0
4/15/2024 21:49	46301	ROHR_T1	38	166	128	0.13	0.22	0.09	0	0	0	0	0	0	0	0
4/15/2024 21:49	44201	POIN_T1	66	325	259	0.15	0.26	0.11	-2.14	-2.34	2	2	0	2100	2100	0
4/15/2024 21:49	24102	EHAZ_T1	0	0	0	0	0	0	0.57	0.29	0	0	0	0	0	0
4/15/2024 21:49	23202	HIRU_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
4/15/2024 21:49	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:49	16504	STRO_T1	0	0	0	0	0	0	0.14	0.1	1	1	0	1200	1200	0
4/15/2024 21:49	26001	WDAM_T1	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
4/15/2024 21:49	57101	SPHI_T2	6	6	0	1.27	1.22	-0.05	0	0	0	0	0	0	0	0
4/15/2024 21:49	24902	WHHA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:49	25503	MADI_T1	234	457	223	0.29	0.65	0.36	-1.08	-1.09	0	0	0	0	0	0
4/15/2024 21:49	64802	MONE_T2	0	0	0	0	0	0	-0.02	0.18	0	0	0	0	0	0
4/15/2024 21:49	12006	HATF_T1	0	0	0	0	0	0	0.15	1.29	1	0	-1	1200	0	-1200
4/15/2024 21:49	12002	HATF_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:49	55002	NEWP_T1	5	6	1	0.54	0.92	0.38	-0.29	-0.28	0	0	0	0	0	0
4/15/2024 21:49	46302	ROHR_T1	5	11	6	1.96	1.13	-0.83	0.08	0.08	0	0	0	0	0	0
4/15/2024 21:49	26002	WDAM_T1	7	10	3	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
4/15/2024 21:49	25501	MADI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 21:49	67801	WLAN_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:49	45801	HEGI_T1	0	0	0	0	0	0	-0.06	-0.21	1	1	0	900	900	0
4/15/2024 21:49	64801	MONE_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/15/2024 21:49	55001	NEWP_T1	4	31	27	0.13	0.17	0.04	0	0	0	0	0	0	0	0
4/15/2024 21:49	57106	SPHI_T2	2	2	0	1.4	1.8	0.4	0	0	0	0	0	0	0	0
4/15/2024 21:49	64201	KINZ_T1	5	1	-4	0.3	1	0.7	-0.36	-0.42	2	2	0	1200	1200	0
4/15/2024 21:49	13302	ORVI_T2	56	0	-56	0.21	0	-0.21	1.06	0.98	0	0	0	0	0	0
4/15/2024 21:49	56801	BENV_T1	12	23	11	0.47	0.83	0.36	-0.8	-0.85	1	1	0	600	600	0
4/15/2024 21:49	40302	TAMA_T3	58	69	11	0.8	0.8	0	0.32	0.29	0	0	0	0	0	0
4/15/2024 21:49	45902	AUBU_T1	11	0	-11	0.11	0	-0.11	-3.33	-1.48	3	0	-3	1800	0	-1800
4/15/2024 21:49	44601	SALE_T2	1	1	0	0.5	0.7	0.2	-0.11	-0.13	0	0	0	0	0	0
4/15/2024 21:49	67804	WLAN_T1	0	44	44	0	0.14	0.14	-1.04	-1.02	0	0	0	0	0	0
4/15/2024 21:49	64204	KINZ_T1	9	1	-8	0.27	1.5	1.23	0	0	0	0	0	0	0	0
4/15/2024 21:49	64202	KINZ_T1	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
4/15/2024 21:49	67805	WLAN_T1	337	533	196	0.24	0.48	0.24	0	0	0	0	0	0	0	0
4/15/2024 21:49	16402	MOPO_T1	0	1	1	0	0	0	0.01	0.01	0	0	0	0	0	0
4/15/2024 21:49	57103	SPHI_T2	0	0	0	0	0	0	-0.24	-0.25	1	1	0	600	600	0
4/15/2024 21:50	44302	BEAV_T2	0	38	38	0	0.15	0.15	0	0	0	0	0	0	0	0
4/15/2024 21:50	67803	WLAN_T1	0	10	10	0	0.14	0.14	-0.82	-0.82	0	0	0	0	0	0
4/15/2024 21:50	67802	WLAN_T1	0	11	11	0	0.16	0.16	0	0	0	0	0	0	0	0
4/15/2024 21:50	56801	BENV_T1	12	23	11	0.47	0.83	0.36	-1.61	-1.7	2	2	0	1200	1200	0
4/15/2024 21:50	67805	WLAN_T1	337	533	196	0.24	0.48	0.24	0	0	0	0	0	0	0	0
4/15/2024 21:50	50105	HARR_T3	6	6	0	5.82	5.55	-0.27	0	0	0	0	0	0	0	0
4/15/2024 21:50	43302	WATS_T2	4	4	0	1.25	1.4	0.15	0	0	0	0	0	0	0	0
4/15/2024 21:50	50201	HARR_T3	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/15/2024 21:50	56802	BENV_T2	25	146	121	0.18	0.25	0.07	-1.58	-1.56	0	0	0	0	0	0
4/15/2024 21:50	66903	SHIL_T2	1	0	-1	0.1	0	-0.1	-1.62	-1.61	0	0	0	0	0	0
4/15/2024 21:50	54001	SDLE_T1	5	5	0	0.86	1.08	0.22	0	0	0	0	0	0	0	0
4/15/2024 21:50	43301	WATS_T2	1	2	1	0.3	0.35	0.05	0.21	0.18	0	0	0	0	0	0
4/15/2024 21:50	67605	WARW_T1	8	13	5	0.25	0.39	0.14	0	0	0	0	0	0	0	0
4/15/2024 21:50	14204	EALL_T2	0	0	0	0	0	0	-0.32	-0.43	0	0	0	0	0	0
4/15/2024 21:50	47001	HUGH_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
4/15/2024 21:50	63404	HONY_T1	147	151	4	0.37	0.53	0.16	0	0	0	0	0	0	0	0
4/15/2024 21:50	14801	TREI_T2	49	144	95	0.14	0.19	0.05	0	0	0	0	0	0	0	0
4/15/2024 21:50	50103	HARR_T3	1	1	0	0.2	0.4	0.2	-0.75	-0.7	1	1	0	1200	1200	0
4/15/2024 21:50	59202	THOM_T1	17	204	187	0.16	0.19	0.03	0	0	0	0	0	0	0	0
4/15/2024 21:50	67604	WARW_T1	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
4/15/2024 21:50	42201	SHEN_T2	0	0	0	0	0	0	-0.01	-0.03	1	1	0	600	600	0
4/15/2024 21:50	23404	HONE_T1	1	7	6	1.4	0.33	-1.07	0	0	0	0	0	0	0	0
4/15/2024 21:50	66504	SMAN_T2	0	0	0	0	0	0	-0.5	-0.54	0	0	0	0	0	0
4/15/2024 21:50	45902	AUBU_T1	11	0	-11	0.11	0	-0.11	-1.11	-0.49	1	0	-1	600	0	-600
4/15/2024 21:50	67801	WLAN_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:50	56803	BENV_T1	5	5	0	0.56	0.72	0.16	0	0	0	0	0	0	0	0
4/15/2024 21:50	44301	BEAV_T2	0	0	0	0	0	0	0.47	0.43	1	1	0	600	600	0
4/15/2024 21:50	57401	SPAN_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/15/2024 21:50	42401	GIMA_T1	146	158	12	0.41	0.38	-0.03	0	0	0	0	0	0	0	0
4/15/2024 21:50	57403	SPAN_T1	3	16	13	0.13	0.19	0.06	0.01	-0.01	0	0	0	0	0	0
4/15/2024 21:50	13103	NHAM_T2	0	0	0	0	0	0	-1.76	-1.76	1	1	0	600	600	0
4/15/2024 21:50	41202	KENM_T2	1	1	0	0.7	1.2	0.5	0.42	0.4	0	0	0	0	0	0
4/15/2024 21:50	14802	TREI_T2	16	33	17	0.2	0.22	0.02	0.31	0.29	0	0	0	0	0	0
4/15/2024 21:50	23403	HONE_T1	29	100	71	0.12	0.16	0.04	-0.85	-0.83	0	0	0	0	0	0
4/15/2024 21:50	47002	HUGH_T2	0	11	11	0	0.17	0.17	0	0	0	0	0	0	0	0
4/15/2024 21:50	63401	HONY_T1	0	0	0	0	0	0	-0.03	-0.04	1	1	0	600	600	0
4/15/2024 21:50	67804	WLAN_T1	0	44	44	0	0.14	0.14	0	0	0	0	0	0	0	0
4/15/2024 21:50	50202	HARR_T3	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/15/2024 21:50	67502	WEWI_T2	0	0	0	0	0	0	-0.42	-0.39	0	0	0	0	0	0
4/15/2024 21:50	59201	THOM_T1	0	19	19	0	0.25	0.25	0	0	0	0	0	0	0	0
4/15/2024 21:50	66505	SMAN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/15/2024 21:50	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:51	42001	MNVL_T2	5	146	141	0.16	0.25	0.09	-0.05	-0.05	0	0	0	0	0	0
4/15/2024 21:51	44601	SALE_T2	1	1	0	0.5	0.7	0.2	-0.11	-0.13	0	0	0	0	0	0
4/15/2024 21:51	62101	ELAN_T1	1	1	0	1.5	1.9	0.4	0	0	0	0	0	0	0	0
4/15/2024 21:51	64101	REFR_T1	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
4/15/2024 21:51	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.09	0	0	0	0	0	0
4/15/2024 21:51	62105	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:51	67803	WLAN_T1	0	10	10	0	0.14	0.14	-1.64	-1.64	0	0	0	0	0	0
4/15/2024 21:51	65303	NBRI_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
4/15/2024 21:51	41202	KENM_T2	1	1	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
4/15/2024 21:51	20401	ASHF_T2	1	2	1	0	0.15	0.15	0	0	0	0	0	0	0	0
4/15/2024 21:51	67505	WEWI_T1	0	0	0	0	0	0	-0.03	-0.11	1	1	0	900	900	0
4/15/2024 21:51	15103	UPHA_T2	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
4/15/2024 21:51	61103	BERK_T5	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
4/15/2024 21:51	62106	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:51	67802	WLAN_T1	0	11	11	0	0.16	0.16	0	0	0	0	0	0	0	0
4/15/2024 21:51	62103	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 21:51	43201	MVIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/15/2024 21:51	66302	MCGO_T2	0	0	0	0	0	0	-1.19	-1.16	1	1	0	600	600	0
4/15/2024 21:51	67805	WLAN_T1	337	533	196	0.24	0.48	0.24	0	0	0	0	0	0	0	0
4/15/2024 21:51	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/15/2024 21:51	10801	CHHI_T1	0	0	0	0	0	0	-2.63	-1.66	4	2	-2	3000	1800	-1200
4/15/2024 21:51	43202	MVIL_T2	117	171	54	0.65	0.9	0.25	-0.78	-0.78	0	0	0	0	0	0
4/15/2024 21:51	41205	KENM_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
4/15/2024 21:51	63305	GREE_T1	2	6	4	0	0.17	0.17	-2.31	-2.33	0	0	0	0	0	0
4/15/2024 21:51	20403	ASHF_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
4/15/2024 21:51	60801	BUCK_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
4/15/2024 21:51	60803	BUCK_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:51	67804	WLAN_T1	0	44	44	0	0.14	0.14	-1.04	-1.02	0	0	0	0	0	0
4/15/2024 21:51	66505	SMAN_T2	0	3	3	0	0.13	0.13	0.17	0.14	1	1	0	900	900	0
4/15/2024 21:51	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:51	59302	MCAL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:51	67801	WLAN_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:51	59301	MCAL_T1	0	1	1	0	0.1	0.1	-1.18	-1.2	0	0	0	0	0	0
4/15/2024 21:51	42002	MNVL_T2	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
4/15/2024 21:51	66303	MCGO_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:51	66901	SHIL_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
4/15/2024 21:51	67204	TEHI_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
4/15/2024 21:51	65503	MOJO_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
4/15/2024 21:51	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-0.97	0	0	0	0	0	0
4/15/2024 21:51	66903	SHIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/15/2024 21:51	67502	WEWI_T2	0	0	0	0	0	0	-0.42	-0.39	0	0	0	0	0	0
4/15/2024 21:51	62102	ELAN_T1	0	0	0	0	0	0	0.77	0.87	0	0	0	0	0	0
4/15/2024 21:52	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:52	67505	WEWI_T1	0	0	0	0	0	0	-0.03	-0.11	1	1	0	900	900	0
4/15/2024 21:52	20403	ASHF_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
4/15/2024 21:52	57403	SPAN_T1	3	16	13	0.13	0.19	0.06	0.01	-0.01	0	0	0	0	0	0
4/15/2024 21:52	57306	MOAL_T2	0	0	0	0	0	0	-3.21	-3.2	1	1	0	1200	1200	0
4/15/2024 21:52	56802	BENV_T2	25	146	121	0.18	0.25	0.07	-3.15	-3.12	0	0	0	0	0	0
4/15/2024 21:52	53901	HALI_T2	1	1	0	0.7	1	0.3	-0.45	-0.45	0	0	0	0	0	0
4/15/2024 21:52	65901	SAKR_T2	1	1	0	9.6	9.9	0.3	-1.32	-1.35	1	1	0	900	900	0
4/15/2024 21:52	51102	CARL_T1	23	100	77	0.13	0.21	0.08	0	0	0	0	0	0	0	0
4/15/2024 21:52	57002	WHHI_T2	0	0	0	0	0	0	-1.42	-0.05	1	0	-1	1200	0	-1200
4/15/2024 21:52	67402	WAKE_T2	0	0	0	0	0	0	-0.47	-0.47	1	1	0	600	600	0
4/15/2024 21:52	51109	CARL_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
4/15/2024 21:52	61302	EARL_T1	0	0	0	0	0	0	0.93	0.93	1	1	0	600	600	0
4/15/2024 21:52	43801	SWIL_T1	2	10	8	3.35	0.82	-2.53	0	0	0	0	0	0	0	0
4/15/2024 21:52	66504	SMAN_T2	0	0	0	0	0	0	-1	-1.09	0	0	0	0	0	0
4/15/2024 21:52	67605	WARW_T1	8	13	5	0.25	0.39	0.14	-1.11	-1.12	0	0	0	0	0	0
4/15/2024 21:52	44201	POIN_T1	66	325	259	0.15	0.26	0.11	-2.14	-2.34	2	2	0	2100	2100	0
4/15/2024 21:52	58402	MORO_T1	0	0	0	0	0	0	-0.32	-0.34	2	2	0	1500	1500	0
4/15/2024 21:52	20401	ASHF_T2	1	2	1	0	0.15	0.15	0	0	0	0	0	0	0	0
4/15/2024 21:52	42903	MIDD_T2	2	26	24	2.2	0.34	-1.86	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/15/2024 21:52	51101	CARL_T1	0	0	0	0	0	0	-1.56	-1.64	0	0	0	0	0	0
4/15/2024 21:52	55001	NEWP_T1	4	31	27	0.13	0.17	0.04	0	0	0	0	0	0	0	0
4/15/2024 21:52	55002	NEWP_T1	5	6	1	0.54	0.92	0.38	-0.58	-0.56	0	0	0	0	0	0
4/15/2024 21:52	42901	MIDD_T2	116	277	161	0.2	0.42	0.22	0	0	0	0	0	0	0	0
4/15/2024 21:52	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
4/15/2024 21:52	45902	AUBU_T1	11	0	-11	0.11	0	-0.11	0	0	0	0	0	0	0	0
4/15/2024 21:52	57304	MOAL_T2	2	44	42	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/15/2024 21:52	61102	BERK_T5	0	1	1	0	0.1	0.1	0.54	0.5	1	1	0	300	300	0
4/15/2024 21:52	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:52	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:52	57303	MOAL_T2	1	1	0	7.1	6.7	-0.4	0	0	0	0	0	0	0	0
4/15/2024 21:52	53903	HALI_T2	2	2	0	1.45	1.5	0.05	0	0	0	0	0	0	0	0
4/15/2024 21:52	42902	MIDD_T2	22	115	93	0.25	0.31	0.06	-0.43	-0.46	0	0	0	0	0	0
4/15/2024 21:52	46001	BERW_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
4/15/2024 21:52	57401	SPAN_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/15/2024 21:52	23001	SAJO_T1	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
4/15/2024 21:52	66505	SMAN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/15/2024 21:52	43802	SWIL_T1	0	0	0	0	0	0	-0.22	-0.23	1	1	0	600	600	0
4/15/2024 21:52	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:52	45901	AUBU_T1	0	0	0	0	0	0	1.91	1.73	0	0	0	0	0	0
4/15/2024 21:52	64402	LAND_T2	0	0	0	0	0	0	-0.44	-0.5	1	1	0	600	600	0
4/15/2024 21:53	67803	WLAN_T1	0	10	10	0	0.14	0.14	-3.27	-3.36	0	0	0	0	0	0
4/15/2024 21:53	67804	WLAN_T1	0	44	44	0	0.14	0.14	0	0	0	0	0	0	0	0
4/15/2024 21:53	67203	TEHI_T1	0	0	0	0	0	0	2.09	2.04	2	2	0	1500	1500	0
4/15/2024 21:53	45702	LIND_T2	1	1	0	1.5	1	-0.5	0	0	0	0	0	0	0	0
4/15/2024 21:53	59201	THOM_T1	0	19	19	0	0.25	0.25	0	0	0	0	0	0	0	0
4/15/2024 21:53	15702	TANN_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
4/15/2024 21:53	46302	ROHR_T1	5	11	6	1.96	1.13	-0.83	0	0	0	0	0	0	0	0
4/15/2024 21:53	67802	WLAN_T1	0	11	11	0	0.16	0.16	0	0	0	0	0	0	0	0
4/15/2024 21:53	50202	HARR_T3	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/15/2024 21:53	63306	GREE_T1	0	0	0	0	0	0	-1.17	-1.16	0	0	0	0	0	0
4/15/2024 21:53	61103	BERK_T5	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
4/15/2024 21:53	44601	SALE_T2	1	1	0	0.5	0.7	0.2	-0.11	-0.13	0	0	0	0	0	0
4/15/2024 21:53	63305	GREE_T1	2	6	4	0	0.17	0.17	0	0	0	0	0	0	0	0
4/15/2024 21:53	44201	POIN_T1	66	325	259	0.15	0.26	0.11	-2.14	-2.34	2	2	0	2100	2100	0
4/15/2024 21:53	65205	PRIN_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
4/15/2024 21:53	41502	FAIR_T2	0	0	0	0	0	0	-1.4	-1.42	0	0	0	0	0	0
4/15/2024 21:53	43202	MVIL_T2	117	171	54	0.65	0.9	0.25	0	0	0	0	0	0	0	0
4/15/2024 21:53	47102	MARL_T2	21	20	-1	0.21	0.25	0.04	0	0	0	0	0	0	0	0
4/15/2024 21:53	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.11	-0.34	2	2	0	1800	1800	0
4/15/2024 21:53	66505	SMAN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/15/2024 21:53	46001	BERW_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
4/15/2024 21:53	22602	KIMB_T1	1	1	0	0.5	0.4	-0.1	0.32	0.3	0	0	0	0	0	0
4/15/2024 21:53	59202	THOM_T1	17	204	187	0.16	0.19	0.03	0	0	0	0	0	0	0	0
4/15/2024 21:53	61102	BERK_T5	0	1	1	0	0.1	0.1	0.5	0.39	1	1	0	300	300	0
4/15/2024 21:53	43201	MVIL_T2	0	1	1	0	0.3	0.3	-0.43	-0.43	0	0	0	0	0	0
4/15/2024 21:53	67805	WLAN_T1	337	533	196	0.24	0.48	0.24	0	0	0	0	0	0	0	0
4/15/2024 21:53	67502	WEWI_T2	0	0	0	0	0	0	-0.39	-0.49	0	0	0	0	0	0
4/15/2024 21:53	66202	SISP_T2	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
4/15/2024 21:53	23901	ERMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:53	20603	GRMO_T2	18	1	-17	0.16	0.1	-0.06	0.32	0.29	0	0	0	0	0	0
4/15/2024 21:53	45701	LIND_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
4/15/2024 21:53	15703	TANN_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
4/15/2024 21:53	50201	HARR_T3	1	1	0	0.1	0.3	0.2	0.25	0.27	0	0	0	0	0	0
4/15/2024 21:53	60902	DONG_T2	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
4/15/2024 21:53	42802	SELI_T1	1	0	-1	0.6	0	-0.6	-1.04	-1.04	1	1	0	900	900	0
4/15/2024 21:53	49803	UNIV_T1	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
4/15/2024 21:53	56803	BENV_T1	5	5	0	0.56	0.72	0.16	0	0	0	0	0	0	0	0
4/15/2024 21:53	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.15	0	0	0	0	0	0
4/15/2024 21:53	47103	MARL_T2	32	40	8	0.19	0.19	0	-0.66	-0.71	0	0	0	0	0	0
4/15/2024 21:53	67605	WARW_T1	8	13	5	0.25	0.39	0.14	-1.12	-1.14	0	0	0	0	0	0
4/15/2024 21:53	56801	BENV_T1	12	23	11	0.47	0.83	0.36	-0.85	-0.86	1	1	0	600	600	0
4/15/2024 21:53	49804	UNIV_T1	0	2	2	0	0.5	0.5	0.42	0.43	0	0	0	0	0	0
4/15/2024 21:53	50105	HARR_T3	6	6	0	5.82	5.55	-0.27	0	0	0	0	0	0	0	0
4/15/2024 21:53	51402	LYKE_T1	0	3	3	0	0.1	0.1	-1.52	-1.53	1	1	0	600	600	0
4/15/2024 21:53	46301	ROHR_T1	38	166	128	0.13	0.22	0.09	0.34	0.26	0	0	0	0	0	0
4/15/2024 21:53	50103	HARR_T3	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/15/2024 21:53	61303	EARL_T1	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
4/15/2024 21:53	65202	PRIN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/15/2024 21:53	67801	WLAN_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:54	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:54	28403	HART_T2	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
4/15/2024 21:54	20403	ASHF_T2	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
4/15/2024 21:54	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:54	43302	WATS_T2	4	4	0	1.25	1.4	0.15	0	0	0	0	0	0	0	0
4/15/2024 21:54	47102	MARL_T2	21	20	-1	0.21	0.25	0.04	0	0	0	0	0	0	0	0
4/15/2024 21:54	53501	EVIL_T2	2	3	1	0.8	0.9	0.1	-0.67	-0.65	0	0	0	0	0	0
4/15/2024 21:54	46301	ROHR_T1	38	166	128	0.13	0.22	0.09	0.13	0.13	0	0	0	0	0	0
4/15/2024 21:54	43301	WATS_T2	1	2	1	0.3	0.35	0.05	0.18	0.16	0	0	0	0	0	0
4/15/2024 21:54	67201	TEHI_T1	0	0	0	0	0	0	0	-0.58	-0.56	1	1	0	600	600
4/15/2024 21:54	61103	BERK_T5	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
4/15/2024 21:54	47103	MARL_T2	32	40	8	0.19	0.19	0	-0.66	-0.71	0	0	0	0	0	0
4/15/2024 21:54	46506	LOHA_T1	37	39	2	0.17	0.2	0.03	-0.52	-0.51	0	0	0	0	0	0
4/15/2024 21:54	20401	ASHF_T2	1	2	1	0	0.15	0.15	0	0	0	0	0	0	0	0
4/15/2024 21:54	16301	ALPA_T1	8	1	-7	0.19	0.4	0.21	-0.42	-0.45	0	0	0	0	0	0
4/15/2024 21:54	44502	HAMI_T2	1	1	0	3.4	3.7	0.3	-0.99	-0.98	0	0	0	0	0	0
4/15/2024 21:54	46004	BERW_T2	0	0	0	0	0	0	-0.32	-0.42	0	0	0	0	0	0
4/15/2024 21:54	67703	WERN_T2	0	0	0	0	0	0	-0.24	-0.28	1	1	0	900	900	0
4/15/2024 21:54	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
4/15/2024 21:54	57403	SPAN_T1	3	16	13	0.13	0.19	0.06	0	0	0	0	0	0	0	0
4/15/2024 21:54	15703	TANN_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
4/15/2024 21:54	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:54	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 21:54	45702	LIND_T2	1	1	0	1.5	1	-0.5	-0.62	-0.65	0	0	0	0	0	0
4/15/2024 21:54	46402	FLEM_T2	36	93	57	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
4/15/2024 21:54	14502	SCHO_T1	1	1	0	0.8	0.8	0	0.37	0.35	0	0	0	0	0	0
4/15/2024 21:54	64403	LAND_T1	0	0	0	0	0	0	-1.46	-1.43	1	1	0	900	900	0
4/15/2024 21:54	47203	FAXO_T2	0	0	0	0	0	0	-1.66	-1.71	1	1	0	1200	1200	0
4/15/2024 21:54	60701	BREC_T1	0	0	0	0	0	0	-0.54	-0.02	1	0	-1	600	0	-600
4/15/2024 21:54	15702	TANN_T2	0	0	0	0	0	0	0.43	0.38	0	0	0	0	0	0
4/15/2024 21:54	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.36	0	0	0	0	0	0
4/15/2024 21:54	46504	LOHA_T1	51	153	102	0.25	0.39	0.14	0	0	0	0	0	0	0	0
4/15/2024 21:54	51402	LYKE_T1	0	3	3	0	0.1	0.1	-1.52	-1.53	1	1	0	600	600	0
4/15/2024 21:54	46503	LOHA_T1	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/15/2024 21:54	46401	FLEM_T2	66	284	218	0.18	0.25	0.07	0.45	0.46	0	0	0	0	0	0
4/15/2024 21:54	46302	ROHR_T1	5	11	6	1.96	1.13	-0.83	0	0	0	0	0	0	0	0
4/15/2024 21:54	59101	WALK_T2	0	0	0	0	0	0	1.92	2.07	0	0	0	0	0	0
4/15/2024 21:54	57401	SPAN_T1	1	2	1	0.1	0.3	0.2	-1.11	-0.91	1	1	0	600	600	0
4/15/2024 21:54	66505	SMAN_T2	0	3	3	0	0.13	0.13	0.14	-0.01	1	1	0	900	900	0
4/15/2024 21:55	46503	LOHA_T1	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/15/2024 21:55	40902	JESH_T1	345	863	518	0.23	0.33	0.1	-0.94	-0.94	0	0	0	0	0	0
4/15/2024 21:55	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
4/15/2024 21:55	40901	JESH_T1	160	243	83	0.31	0.41	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:55	43302	WATS_T2	4	4	0	1.25	1.4	0.15	0	0	0	0	0	0	0	0
4/15/2024 21:55	60803	BUCK_T1	0	2	2	0	0.1	0.1	-1.22	-1.23	1	1	0	600	600	0
4/15/2024 21:55	40903	JESH_T1	71	263	192	0.16	0.25	0.09	0	0	0	0	0	0	0	0
4/15/2024 21:55	55002	NEWP_T1	5	6	1	0.54	0.92	0.38	-0.28	-0.29	0	0	0	0	0	0
4/15/2024 21:55	46401	FLEM_T2	66	284	218	0.18	0.25	0.07	0.45	0.46	0	0	0	0	0	0
4/15/2024 21:55	45702	LIND_T2	1	1	0	1.5	1	-0.5	0	0	0	0	0	0	0	0
4/15/2024 21:55	45701	LIND_T2	0	0	0	0	0	0	0.27	0.22	0	0	0	0	0	0
4/15/2024 21:55	49804	UNIV_T1	0	2	2	0	0.5	0.5	0.43	0.4	0	0	0	0	0	0
4/15/2024 21:55	41802	GOCI_T2	20	18	-2	0.27	0.31	0.04	0	0	0	0	0	0	0	0
4/15/2024 21:55	22101	EDEL_T2	0	0	0	0	0	0	0.37	0.36	1	1	0	1200	1200	0
4/15/2024 21:55	54001	SOLE_T1	5	5	0	0.86	1.08	0.22	0	0	0	0	0	0	0	0
4/15/2024 21:55	46402	FLEM_T2	36	93	57	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
4/15/2024 21:55	46504	LOHA_T1	51	153	102	0.25	0.39	0.14	0	0	0	0	0	0	0	0
4/15/2024 21:55	20401	ASHF_T2	1	2	1	0	0.15	0.15	0	0	0	0	0	0	0	0
4/15/2024 21:55	41801	GOCI_T2	52	130	78	0.18	0.27	0.09	0	0	0	0	0	0	0	0
4/15/2024 21:55	46001	BERW_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
4/15/2024 21:55	12602	MACA_T1	0	0	0	0	0	0	-1.39	-1.41	0	0	0	0	0	0
4/15/2024 21:55	46506	LOHA_T1	37	39	2	0.17	0.2	0.03	-0.52	-0.51	0	0	0	0	0	0
4/15/2024 21:55	43301	WATS_T2	1	2	1	0.3	0.35	0.05	0.18	0.16	0	0	0	0	0	0
4/15/2024 21:55	21901	HUMB_T1	0	0	0	0	0	0	-0.98	-1	0	0	0	0	0	0
4/15/2024 21:55	20403	ASHF_T2	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
4/15/2024 21:55	55003	NEWP_T2	4	8	4	0.13	0.39	0.26	-0.23	-0.26	0	0	0	0	0	0
4/15/2024 21:55	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.34	-0.5	2	2	0	1800	1800	0
4/15/2024 21:55	55001	NEWP_T1	4	31	27	0.13	0.17	0.04	0	0	0	0	0	0	0	0
4/15/2024 21:55	46203	DANV_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
4/15/2024 21:56	44504	HAMI_T2	0	0	0	0	0	0	-1.38	-1.4	0	0	0	0	0	0
4/15/2024 21:56	54601	SUMM_T2	9	11	2	0.39	0.58	0.19	-1.92	-1.92	2	2	0	2100	2100	0
4/15/2024 21:56	41301	FISH_T1	141	199	58	0.2	0.28	0.08	-0.07	-0.09	0	0	0	0	0	0
4/15/2024 21:56	26001	WDAM_T1	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
4/15/2024 21:56	50201	HARR_T3	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/15/2024 21:56	11804	FRAN_T1	0	0	0	0	0	0	0.56	0.61	0	0	0	0	0	0
4/15/2024 21:56	41802	GOCI_T2	20	18	-2	0.27	0.31	0.04	0	0	0	0	0	0	0	0
4/15/2024 21:56	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
4/15/2024 21:56	40601	PIGR_T1	129	103	-26	0.22	0.2	-0.02	-0.19	-0.22	0	0	0	0	0	0
4/15/2024 21:56	10801	CHHI_T1	0	0	0	0	0	0	-1.66	-0.91	2	2	0	1800	1800	0
4/15/2024 21:56	41305	FISH_T1	19	29	10	0.16	0.16	0	0	0	0	0	0	0	0	0
4/15/2024 21:56	50202	HARR_T3	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/15/2024 21:56	44502	HAMI_T2	1	1	0	3.4	3.7	0.3	0	0	0	0	0	0	0	0
4/15/2024 21:56	42201	SHEN_T2	0	0	0	0	0	0	-0.03	-0.03	1	1	0	600	600	0
4/15/2024 21:56	61102	BERK_T5	0	1	1	0	0.1	0.1	0.5	0.39	1	1	0	300	300	0
4/15/2024 21:56	64704	LITI_T1	0	0	0	0	0	0	0.97	0.89	0	0	0	0	0	0
4/15/2024 21:56	26002	WDAM_T1	7	10	3	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
4/15/2024 21:56	50105	HARR_T3	6	6	0	5.82	5.55	-0.27	0	0	0	0	0	0	0	0
4/15/2024 21:56	54602	SUMM_T2	0	9	9	0	0.18	0.18	0	0	0	0	0	0	0	0
4/15/2024 21:56	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:56	63801	HEMP_T1	0	0	0	0	0	0	0.9	0.55	0	0	0	0	0	0
4/15/2024 21:56	50103	HARR_T3	1	1	0	0.2	0.4	0.2	-0.7	-0.79	1	1	0	1200	1200	0
4/15/2024 21:56	41801	GOCI_T2	52	130	78	0.18	0.27	0.09	0	0	0	0	0	0	0	0
4/15/2024 21:56	44201	POIN_T1	66	325	259	0.15	0.26	0.11	-4.68	-4.54	4	4	0	4200	4200	0
4/15/2024 21:57	61102	BERK_T5	0	1	1	0	0.1	0.1	0.5	0.39	1	1	0	300	300	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/15/2024 21:57	59002	MIFF_T1	0	6	6	0	0.38	0.38	0	0	0	0	0	0	0	0
4/15/2024 21:57	66505	SMAN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/15/2024 21:57	20401	ASHF_T2	1	2	1	0	0.15	0.15	0	0	0	0	0	0	0	0
4/15/2024 21:57	43302	WATS_T2	4	4	0	1.25	1.4	0.15	0	0	0	0	0	0	0	0
4/15/2024 21:57	57401	SPAN_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/15/2024 21:57	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:57	61801	EELI_T2	0	0	0	0	0	0	-0.94	-0.97	1	1	0	600	600	0
4/15/2024 21:57	66503	SMAN_T2	0	0	0	0	0	0	0.44	0.39	0	0	0	0	0	0
4/15/2024 21:57	28403	HART_T2	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
4/15/2024 21:57	45702	LIND_T2	1	1	0	1.5	1	-0.5	-0.62	-0.65	0	0	0	0	0	0
4/15/2024 21:57	55002	NEWP_T1	5	6	1	0.54	0.92	0.38	0	0	0	0	0	0	0	0
4/15/2024 21:57	43304	WATS_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
4/15/2024 21:57	40601	PIGR_T1	129	103	-26	0.22	0.2	-0.02	-0.19	-0.22	0	0	0	0	0	0
4/15/2024 21:57	44302	BEAV_T2	0	38	38	0	0.15	0.15	0	0	0	0	0	0	0	0
4/15/2024 21:57	43301	WATS_T2	1	2	1	0.3	0.35	0.05	0.18	0.16	0	0	0	0	0	0
4/15/2024 21:57	60501	NMAN_T2	3	3	0	5.03	5.2	0.17	0	0	0	0	0	0	0	0
4/15/2024 21:57	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.34	-0.5	2	2	0	1800	1800	0
4/15/2024 21:57	44301	BEAV_T2	0	0	0	0	0	0	0.43	0.37	1	1	0	600	600	0
4/15/2024 21:57	20403	ASHF_T2	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
4/15/2024 21:57	59003	MIFF_T1	0	1	1	0	0.2	0.2	0.66	0.64	0	0	0	0	0	0
4/15/2024 21:57	57403	SPAN_T1	3	16	13	0.13	0.19	0.06	-0.01	-0.05	0	0	0	0	0	0
4/15/2024 21:57	55001	NEWP_T1	4	31	27	0.13	0.17	0.04	-0.2	-0.22	0	0	0	0	0	0
4/15/2024 21:57	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:57	60502	NMAN_T2	0	0	0	0	0	0	-0.35	-0.43	0	0	0	0	0	0
4/15/2024 21:58	42903	MIDD_T2	2	26	24	2.2	0.34	-1.86	0	0	0	0	0	0	0	0
4/15/2024 21:58	61103	BERK_T5	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
4/15/2024 21:58	61102	BERK_T5	0	1	1	0	0.1	0.1	0.5	0.39	1	1	0	300	300	0
4/15/2024 21:58	56803	BENV_T1	5	5	0	0.56	0.72	0.16	0	0	0	0	0	0	0	0
4/15/2024 21:58	15001	BLMO_T1	4	4	0	0.4	0.68	0.28	0	0	0	0	0	0	0	0
4/15/2024 21:58	46001	BERW_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
4/15/2024 21:58	44502	HAMI_T2	1	1	0	3.4	3.7	0.3	0	0	0	0	0	0	0	0
4/15/2024 21:58	55002	NEWP_T1	5	6	1	0.54	0.92	0.38	-0.28	-0.29	0	0	0	0	0	0
4/15/2024 21:58	55001	NEWP_T1	4	31	27	0.13	0.17	0.04	0	0	0	0	0	0	0	0
4/15/2024 21:58	41301	FISH_T1	141	199	58	0.2	0.28	0.08	0	0	0	0	0	0	0	0
4/15/2024 21:58	66303	MCGO_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:58	43301	WATS_T2	1	2	1	0.3	0.35	0.05	0.18	0.16	0	0	0	0	0	0
4/15/2024 21:58	40802	EXCH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/15/2024 21:58	63302	GREE_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
4/15/2024 21:58	66302	MCGO_T2	0	0	0	0	0	0	-2.31	-2.22	2	2	0	1200	1200	0
4/15/2024 21:58	56802	BENV_T2	25	146	121	0.18	0.25	0.07	-1.56	-1.68	0	0	0	0	0	0
4/15/2024 21:58	42902	MIDD_T2	22	115	93	0.25	0.31	0.06	-0.46	-0.48	0	0	0	0	0	0
4/15/2024 21:58	24801	VALM_T1	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
4/15/2024 21:58	63305	GREE_T1	2	6	4	0	0.17	0.17	0	0	0	0	0	0	0	0
4/15/2024 21:58	56801	BENV_T1	12	23	11	0.47	0.83	0.36	-0.85	-0.86	1	1	0	600	600	0
4/15/2024 21:58	40101	HUNT_T2	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
4/15/2024 21:58	41303	FISH_T1	0	0	0	0	0	0	-0.56	-0.66	0	0	0	0	0	0
4/15/2024 21:58	41305	FISH_T1	19	29	10	0.16	0.16	0	0	0	0	0	0	0	0	0
4/15/2024 21:58	60701	BREC_T1	0	0	0	0	0	0	-0.54	-0.02	1	0	-1	600	0	-600
4/15/2024 21:58	12202	FOGE_T2	0	0	0	0	0	0	-0.55	-0.62	1	1	0	600	600	0
4/15/2024 21:58	44505	HAMI_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
4/15/2024 21:58	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	4	2	1200	3600	2400
4/15/2024 21:58	43302	WATS_T2	4	4	0	1.25	1.4	0.15	0	0	0	0	0	0	0	0
4/15/2024 21:58	65502	MOJO_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
4/15/2024 21:58	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.25	1	1	0	600	600	0
4/15/2024 21:58	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:58	42901	MIDD_T2	116	277	161	0.2	0.42	0.22	0	0	0	0	0	0	0	0
4/15/2024 21:58	40801	EXCH_T2	0	0	0	0	0	0	0.83	0.78	0	0	0	0	0	0
4/15/2024 21:59	67802	WLAN_T1	0	11	11	0	0.16	0.16	0	0	0	0	0	0	0	0
4/15/2024 21:59	12701	MACU_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
4/15/2024 21:59	61303	EARL_T1	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
4/15/2024 21:59	44302	BEAV_T2	0	38	38	0	0.15	0.15	0.23	0.25	0	0	0	0	0	0
4/15/2024 21:59	41301	FISH_T1	141	199	58	0.2	0.28	0.08	-0.07	-0.09	0	0	0	0	0	0
4/15/2024 21:59	41305	FISH_T1	19	29	10	0.16	0.16	0	0	0	0	0	0	0	0	0
4/15/2024 21:59	46503	LOHA_T1	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/15/2024 21:59	67805	WLAN_T1	337	533	196	0.24	0.48	0.24	0	0	0	0	0	0	0	0
4/15/2024 21:59	52002	LING_T2	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
4/15/2024 21:59	46506	LOHA_T1	37	39	2	0.17	0.2	0.03	-0.52	-0.51	0	0	0	0	0	0
4/15/2024 21:59	52004	LING_T2	0	1	1	0	0.4	0.4	0.1	0.11	0	0	0	0	0	0
4/15/2024 21:59	58402	MORO_T1	0	0	0	0	0	0	-0.34	-0.32	2	2	0	1500	1500	0
4/15/2024 21:59	66703	STRA_T1	7	171	164	0.4	0.33	-0.07	-0.38	-0.39	0	0	0	0	0	0
4/15/2024 21:59	67803	WLAN_T1	0	10	10	0	0.14	0.14	0	0	0	0	0	0	0	0
4/15/2024 21:59	67804	WLAN_T1	0	44	44	0	0.14	0.14	-1.02	-1.06	0	0	0	0	0	0
4/15/2024 21:59	67801	WLAN_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 21:59	52006	LING_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
4/15/2024 21:59	52501	PROG_T1	0	0	0	0	0	0	0.46	0.41	1	1	0	300	300	0
4/15/2024 21:59	46504	LOHA_T1	51	153	102	0.25	0.39	0.14	0	0	0	0	0	0	0	0
4/15/2024 21:59	56802	BENV_T2	25	146	121	0.18	0.25	0.07	-0.78	-0.84	0	0	0	0	0	0
4/15/2024 21:59	54001	SDLE_T1	5	5	0	0.86	1.08	0.22	0	0	0	0	0	0	0	0
4/15/2024 22:00	44201	POIN_T1	66	325	259	0.15	0.26	0.11	-2.34	-2.27	2	2	0	2100	2100	0
4/15/2024 22:00	46503	LOHA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 22:00	42902	MIDD_T2	52	129	77	0.27	0.36	0.09	0	0	0	0	0	0	0	0
4/15/2024 22:00	59202	THOM_T1	204	29	-175	0.19	0.15	-0.04	0	0	0	0	0	0	0	0
4/15/2024 22:00	44302	BEAV_T2	0	38	38	0	0.15	0.15	0	0	0	0	0	0	0	0
4/15/2024 22:00	56801	BENV_T1	23	22	-1	0.83	0.86	0.03	-2.54	-2.58	3	3	0	1800	1800	0
4/15/2024 22:00	46801	HEPB_T2	2	2	0	0.6	0.8	0.2	0.54	0.5	0	0	0	0	0	0
4/15/2024 22:00	56803	BENV_T1	5	5	0	0.72	0.48	-0.24	0	0	0	0	0	0	0	0
4/15/2024 22:00	57304	MOAL_T2	25	50	25	0.23	0.29	0.06	0	0	0	0	0	0	0	0
4/15/2024 22:00	57306	MOAL_T2	0	0	0	0	0	0	-3.2	-3.22	1	1	0	1200	1200	0
4/15/2024 22:00	46506	LOHA_T1	27	34	7	0.18	0.2	0.02	-0.52	-0.51	0	0	0	0	0	0
4/15/2024 22:00	44301	BEAV_T2	0	0	0	0	0	0	0.43	0.37	1	1	0	600	600	0
4/15/2024 22:00	42901	MIDD_T2	191	281	90	0.27	0.42	0.15	0	0	0	0	0	0	0	0
4/15/2024 22:00	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.25	1	1	0	600	600	0
4/15/2024 22:00	57303	MOAL_T2	1	1	0	7.1	6.7	-0.4	0	0	0	0	0	0	0	0
4/15/2024 22:00	23001	SAJO_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
4/15/2024 22:00	46504	LOHA_T1	74	153	79	0.54	0.39	-0.15	0	0	0	0	0	0	0	0
4/15/2024 22:00	46203	DANV_T2	0	7	7	0	0.14	0.14	0.07	0.06	0	0	0	0	0	0
4/15/2024 22:00	59201	THOM_T1	19	4	-15	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
4/15/2024 22:00	42903	MIDD_T2	4	26	22	1.23	0.34	-0.89	0	0.01	0	0	0	0	0	0
4/15/2024 22:00	40101	HUNT_T2	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
4/15/2024 22:01	56801	BENV_T1	23	22	-1	0.83	0.86	0.03	-0.85	-0.86	1	1	0	600	600	0
4/15/2024 22:01	53501	EVIL_T2	2	4	2	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
4/15/2024 22:01	42001	MNVL_T2	133	160	27	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/15/2024 22:01	42002	MNVL_T2	1	2	1	1.9	0.85	-1.05	0.19	0.17	0	0	0	0	0	0
4/15/2024 22:01	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
4/15/2024 22:01	60803	BUCK_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 22:01	42201	SHEN_T2	0	0	0	0	0	0	-0.03	-0.03	1	1	0	600	600	0
4/15/2024 22:01	53502	EVIL_T2	0	0	0	0	0	0	0.71	0.66	0	0	0	0	0	0
4/15/2024 22:01	43801	SWIL_T1	3	14	11	2.3	0.66	-1.64	0	0	0	0	0	0	0	0
4/15/2024 22:01	51305	WIND_T1	0	0	0	0	0	0	0.18	0.13	0	0	0	0	0	0
4/15/2024 22:01	43802	SWIL_T1	0	0	0	0	0	0	-0.23	-0.23	1	1	0	600	600	0
4/15/2024 22:01	56803	BENV_T1	5	5	0	0.72	0.48	-0.24	0	0	0	0	0	0	0	0
4/15/2024 22:02	67801	WLAN_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 22:02	67804	WLAN_T1	1	62	61	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/15/2024 22:02	67803	WLAN_T1	2	35	33	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
4/15/2024 22:02	44302	BEAV_T2	0	38	38	0	0.15	0.15	0	0	0	0	0	0	0	0
4/15/2024 22:02	57401	SPAN_T1	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
4/15/2024 22:02	43802	SWIL_T1	0	0	0	0	0	0	-0.23	-0.23	1	1	0	600	600	0
4/15/2024 22:02	43801	SWIL_T1	3	14	11	2.3	0.66	-1.64	0	0	0	0	0	0	0	0
4/15/2024 22:02	42903	MIDD_T2	4	26	22	1.23	0.34	-0.89	0	0	0	0	0	0	0	0
4/15/2024 22:02	42901	MIDD_T2	191	281	90	0.27	0.42	0.15	0	0	0	0	0	0	0	0
4/15/2024 22:02	67805	WLAN_T1	459	538	79	0.31	0.49	0.18	-1.43	-1.47	0	0	0	0	0	0
4/15/2024 22:02	67802	WLAN_T1	2	14	12	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/15/2024 22:02	57403	SPAN_T1	16	16	0	0.19	0.17	-0.02	-0.01	-0.05	0	0	0	0	0	0
4/15/2024 22:02	42902	MIDD_T2	52	129	77	0.27	0.36	0.09	-0.46	-0.48	0	0	0	0	0	0
4/15/2024 22:02	66505	SMAN_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/15/2024 22:02	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.36	0	0	0	0	0	0
4/15/2024 22:02	56803	BENV_T1	5	5	0	0.72	0.48	-0.24	0	0	0	0	0	0	0	0
4/15/2024 22:02	44301	BEAV_T2	0	0	0	0	0	0	0.43	0.37	1	1	0	600	600	0
4/15/2024 22:02	56801	BENV_T1	23	22	-1	0.83	0.86	0.03	-1.7	-1.72	2	2	0	1200	1200	0
4/15/2024 22:03	59101	WALK_T2	0	0	0	0	0	0	0.96	1.03	0	0	0	0	0	0
4/15/2024 22:03	59102	WALK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/15/2024 22:04	67802	WLAN_T1	2	14	12	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/15/2024 22:04	67801	WLAN_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 22:04	42802	SELI_T1	0	0	0	0	0	0	-1.04	-0.07	1	0	-1	900	0	-900
4/15/2024 22:04	67803	WLAN_T1	2	35	33	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
4/15/2024 22:04	67804	WLAN_T1	1	62	61	0.1	0.14	0.04	-1.02	-1.06	0	0	0	0	0	0
4/15/2024 22:04	49803	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 22:04	67805	WLAN_T1	459	538	79	0.31	0.49	0.18	0	0	0	0	0	0	0	0
4/15/2024 22:04	49804	UNIV_T1	0	2	2	0	0.6	0.6	0.43	0.4	0	0	0	0	0	0
4/15/2024 22:05	55002	NEWP_T1	6	6	0	0.92	0.6	-0.32	0	0	0	0	0	0	0	0
4/15/2024 22:05	46302	ROHR_T1	5	39	34	2.08	0.45	-1.63	2.08	0.09	0	0	0	0	0	0
4/15/2024 22:05	55001	NEWP_T1	31	0	-31	0.17	0	-0.17	-0.2	-0.22	0	0	0	0	0	0
4/15/2024 22:05	46301	ROHR_T1	48	240	192	0.15	0.3	0.15	0	0	0	0	0	0	0	0
4/15/2024 22:06	59202	THOM_T1	204	29	-175	0.19	0.15	-0.04	0	0	0	0	0	0	0	0
4/15/2024 22:06	59201	THOM_T1	19	4	-15	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
4/15/2024 22:09	44302	BEAV_T2	0	38	38	0	0.15	0.15	0.25	0.25	0	0	0	0	0	0
4/15/2024 22:09	13105	NHAM_T2	0	0	0	0	0	0	-0.72	-0.74	1	1	0	1200	1200	0
4/15/2024 22:10	40902	JESH_T1	622	1068	446	0.28	0.35	0.07	-0.94	-0.96	0	0	0	0	0	0
4/15/2024 22:10	40901	JESH_T1	211	307	96	0.38	0.41	0.03	0	0	0	0	0	0	0	0
4/15/2024 22:10	40903	JESH_T1	185	328	143	0.2	0.26	0.06	0	0	0	0	0	0	0	0
4/15/2024 22:14	16301	ALPA_T1	1	2	1	0.3	0.3	0	-0.45	-0.45	0	0	0	0	0	0
4/15/2024 22:24	12505	MITR_T2	0	0	0	0	0	0	0.69	0.7	0	0	0	0	0	0
4/15/2024 22:24	12502	MITR_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
4/15/2024 22:25	57401	SPAN_T1	0	2	2	0	0.35	0.35	-0.93	-0.89	1	1	0	600	600	0
4/15/2024 22:25	13502	MCMI_T1	0	10	10	0	0.15	0.15	0	0	0	0	0	0	0	0
4/15/2024 22:25	13501	MCMI_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
4/15/2024 22:25	57403	SPAN_T1	0	23	23	0	0.2	0.2	0	0	0	0	0	0	0	0
4/15/2024 22:39	53901	HALI_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
4/15/2024 22:39	56802	BENV_T2	58	13	-45	0.14	0.17	0.03	-0.88	-0.86	0	0	0	0	0	0
4/15/2024 22:39	53903	HALI_T2	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
4/15/2024 22:39	53902	HALI_T2	1	1	0	5.3	5.7	0.4	-0.31	-0.31	0	0	0	0	0	0
4/15/2024 22:40	53901	HALI_T2	1	1	0	1	1.1	0.1	-3.17	-3.22	0	0	0	0	0	0
4/15/2024 22:40	53902	HALI_T2	1	1	0	5.3	5.7	0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/15/2024 22:40	53903	HALI_T2	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
4/15/2024 22:41	53902	HALI_T2	1	1	0	5.3	5.7	0.4	0	0	0	0	0	0	0	0
4/15/2024 22:41	56802	BENV_T2	58	13	-45	0.14	0.17	0.03	-0.88	-0.86	0	0	0	0	0	0
4/15/2024 22:41	53901	HALI_T2	1	1	0	1	1.1	0.1	-1.58	-1.61	0	0	0	0	0	0
4/15/2024 22:41	53903	HALI_T2	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
4/15/2024 22:43	45602	WOOL_T1	10	3	-7	0.47	0.7	0.23	0.29	0.3	0	0	0	0	0	0
4/15/2024 22:46	56802	BENV_T2	13	136	123	0.17	0.2	0.03	-0.88	-0.86	0	0	0	0	0	0
4/15/2024 22:47	56802	BENV_T2	13	136	123	0.17	0.2	0.03	-0.88	-0.86	0	0	0	0	0	0
4/16/2024 1:43	50201	HARR_T3	0	0	0	0	0	0	0.23	0.26	0	0	0	0	0	0
4/16/2024 1:43	50105	HARR_T3	6	6	0	5.83	5.82	-0.01	0	0	0	0	0	0	0	0
4/16/2024 1:43	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 1:43	50103	HARR_T3	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/16/2024 7:07	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 7:11	60903	DONG_T2	0	0	0	0	0	0	0.29	0.43	1	1	0	600	600	0
4/16/2024 7:21	15203	SFAR_T2	0	2	2	0	0.1	0.1	-3.34	-3.27	0	0	0	0	0	0
4/16/2024 7:23	15203	SFAR_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 7:23	10504	CRAC_T1	0	0	0	0	0	0	1.03	1.06	0	0	0	0	0	0
4/16/2024 7:23	15204	SFAR_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
4/16/2024 7:24	51107	CARL_T1	0	0	0	0	0	0	0.2	0.11	0	0	0	0	0	0
4/16/2024 7:26	40505	CRES_T1	3	3	0	5.27	5.5	0.23	0	0	0	0	0	0	0	0
4/16/2024 7:26	40504	CRES_T1	0	0	0	0	0	0	-0.56	-0.49	0	0	0	0	0	0
4/16/2024 7:26	13103	NHAM_T2	0	0	0	0	0	0	-1.81	-1.81	1	1	0	600	600	0
4/16/2024 7:28	10504	CRAC_T1	0	0	0	0	0	0	1.06	1.18	0	0	0	0	0	0
4/16/2024 7:34	44601	SALE_T2	0	0	0	0	0	0	0.77	1.21	1	1	0	600	600	0
4/16/2024 7:36	44601	SALE_T2	0	0	0	0	0	0	0.77	1.21	1	1	0	600	600	0
4/16/2024 7:37	14601	SWHI_T1	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
4/16/2024 7:38	67801	WLAN_T1	0	0	0	0	0	0	0.92	0.84	0	0	0	0	0	0
4/16/2024 7:40	53601	DALM_T2	1	1	0	1.4	0.9	-0.5	0.09	0.11	1	1	0	900	900	0
4/16/2024 7:41	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 7:43	14601	SWHI_T1	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
4/16/2024 7:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 7:52	45901	AUBU_T1	0	0	0	0	0	0	1.06	2.3	0	0	0	0	0	0
4/16/2024 7:56	24902	WHHA_T1	21	12	-9	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
4/16/2024 7:57	40101	HUNT_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
4/16/2024 7:58	41502	FAIR_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
4/16/2024 7:59	40101	HUNT_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
4/16/2024 8:08	45902	AUBU_T1	0	0	0	0	0	0	-0.69	-0.63	1	1	0	600	600	0
4/16/2024 8:08	67605	WARW_T1	14	14	0	0.51	0.51	0	-1.12	-1.09	0	0	0	0	0	0
4/16/2024 8:08	67804	WLAN_T1	0	0	0	0	0	0	-1.18	-1.19	0	0	0	0	0	0
4/16/2024 8:10	10603	BLOL_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
4/16/2024 8:10	46203	DANV_T2	0	0	0	0	0	0	-1.25	-1.23	0	0	0	0	0	0
4/16/2024 8:11	67605	WARW_T1	14	14	0	0.51	0.51	0	-1.12	-1.09	0	0	0	0	0	0
4/16/2024 8:12	12006	HATF_T1	0	0	0	0	0	0	1.73	1.65	0	0	0	0	0	0
4/16/2024 8:13	46203	DANV_T2	0	0	0	0	0	0	-1.25	-1.23	0	0	0	0	0	0
4/16/2024 8:18	54601	SUMM_T2	13	10	-3	0.88	0.66	-0.22	-1.98	-1.94	2	2	0	2100	2100	0
4/16/2024 8:18	60605	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 8:18	54602	SUMM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 8:19	60605	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 8:19	54602	SUMM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 8:19	54601	SUMM_T2	13	10	-3	0.88	0.66	-0.22	-1.98	-1.94	2	2	0	2100	2100	0
4/16/2024 8:20	51505	SWAT_T2	0	0	0	0	0	0	0.9	1.05	0	0	0	0	0	0
4/16/2024 8:20	54601	SUMM_T2	13	10	-3	0.88	0.66	-0.22	-1.98	-1.94	2	2	0	2100	2100	0
4/16/2024 8:20	54602	SUMM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 8:20	63803	HEMP_T1	0	0	0	0	0	0	0.43	0.02	0	0	0	0	0	0
4/16/2024 8:20	63804	HEMP_T1	1	1	0	6.1	6.6	0.5	0	0	0	0	0	0	0	0
4/16/2024 8:21	63803	HEMP_T1	0	0	0	0	0	0	0.43	0.02	0	0	0	0	0	0
4/16/2024 8:21	27502	WEIS_T2	0	0	0	0	0	0	-0.12	-0.09	0	0	0	0	0	0
4/16/2024 8:21	63804	HEMP_T1	1	1	0	6.1	6.6	0.5	0	0	0	0	0	0	0	0
4/16/2024 8:22	67605	WARW_T1	13	13	0	0.51	0.52	0.01	-1.12	-1.09	0	0	0	0	0	0
4/16/2024 8:23	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.05	0	0	0	0	0	0
4/16/2024 8:23	54601	SUMM_T2	13	10	-3	0.88	0.66	-0.22	-5.83	-5.75	6	6	0	6300	6300	0
4/16/2024 8:23	54602	SUMM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 8:24	63802	HEMP_T1	0	0	0	0	0	0	0.1	0.16	0	0	0	0	0	0
4/16/2024 8:24	63804	HEMP_T1	1	1	0	6.1	6.6	0.5	0	0	0	0	0	0	0	0
4/16/2024 8:25	67501	WEWI_T1	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/16/2024 8:25	67505	WEWI_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/16/2024 8:25	67504	WEWI_T1	0	0	0	0	0	0	-0.37	-0.36	1	1	0	900	900	0
4/16/2024 8:25	51303	WIND_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/16/2024 8:26	67605	WARW_T1	13	13	0	0.51	0.52	0.01	-1.09	-1.05	0	0	0	0	0	0
4/16/2024 8:27	45501	DERR_T2	0	0	0	0	0	0	0.92	0.93	2	2	0	1800	1800	0
4/16/2024 8:28	63804	HEMP_T1	1	1	0	6.1	6.6	0.5	0	0	0	0	0	0	0	0
4/16/2024 8:28	63803	HEMP_T1	0	0	0	0	0	0	0.02	0.05	0	0	0	0	0	0
4/16/2024 8:29	60605	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 8:29	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
4/16/2024 8:31	46102	MACI_T1	4	4	0	0.1	0.1	0	0.26	0.26	0	0	0	0	0	0
4/16/2024 8:31	58402	MORO_T1	0	0	0	0	0	0	-0.29	-0.29	2	2	0	1500	1500	0
4/16/2024 8:32	42902	MIDD_T2	2	11	9	0.85	0.29	-0.56	-0.52	-0.47	1	1	0	600	600	0
4/16/2024 8:32	42903	MIDD_T2	2	2	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
4/16/2024 8:32	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
4/16/2024 8:33	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 8:34	42902	MIDD_T2	2	11	9	0.85	0.29	-0.56	-0.52	-0.47	1	1	0	600	600	0
4/16/2024 8:34	42903	MIDD_T2	2	2	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
4/16/2024 8:34	58402	MORO_T1	0	0	0	0	0	0	-0.29	-0.29	2	2	0	1500	1500	0
4/16/2024 8:35	67703	WERN_T2	0	0	0	0	0	0	-0.36	-0.33	1	1	0	900	900	0
4/16/2024 8:35	15203	SFAR_T2	74	43	-31	0.15	0.15	0	-3.28	-3.19	0	0	0	0	0	0
4/16/2024 8:36	67703	WERN_T2	0	0	0	0	0	0	-0.36	-0.33	1	1	0	900	900	0
4/16/2024 8:36	43301	WATS_T2	0	0	0	0	0	0	-0.83	-0.85	1	1	0	900	900	0
4/16/2024 8:36	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.05	0	0	0	0	0	0
4/16/2024 8:37	67703	WERN_T2	0	0	0	0	0	0	-0.73	-0.65	2	2	0	1800	1800	0
4/16/2024 8:37	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.05	0	0	0	0	0	0
4/16/2024 8:37	67605	WARW_T1	13	14	1	0.49	0.56	0.07	-1.09	-1.05	0	0	0	0	0	0
4/16/2024 8:38	50701	SMEC_T1	0	4	4	0	0.35	0.35	0.11	0.05	0	0	0	0	0	0
4/16/2024 8:38	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.1	0	0	0	0	0	0
4/16/2024 8:39	13901	SEID_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
4/16/2024 8:39	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.1	0	0	0	0	0	0
4/16/2024 8:40	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.1	0	0	0	0	0	0
4/16/2024 8:41	67605	WARW_T1	13	14	1	0.49	0.56	0.07	-1.05	-1.05	0	0	0	0	0	0
4/16/2024 8:42	51603	DUKE_T1	2	2	0	0.45	0.7	0.25	-0.59	-0.48	0	0	0	0	0	0
4/16/2024 8:43	61801	EELI_T2	0	0	0	0	0	0	-0.92	-0.27	1	0	-1	600	0	-600
4/16/2024 8:44	61702	ELIZ_T2	2	30	28	0.45	0.21	-0.24	-2.94	-2.93	2	2	0	1500	1500	0
4/16/2024 8:47	13503	MCMI_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
4/16/2024 8:47	55002	NEWP_T1	8	17	9	0.91	0.88	-0.03	-0.25	-0.26	0	0	0	0	0	0
4/16/2024 8:49	55002	NEWP_T1	8	17	9	0.91	0.88	-0.03	-0.49	-0.52	0	0	0	0	0	0
4/16/2024 8:52	67605	WARW_T1	11	14	3	0.57	0.68	0.11	-1.05	-1.05	0	0	0	0	0	0
4/16/2024 8:52	63803	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 8:52	50502	MECH_T1	1	1	0	2.4	2.9	0.5	0	0	0	0	0	0	0	0
4/16/2024 8:52	50506	MECH_T1	0	4	4	0	0.35	0.35	0.13	-0.05	1	1	0	900	900	0
4/16/2024 8:52	63802	HEMP_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
4/16/2024 8:52	50505	MECH_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/16/2024 8:52	50501	MECH_T1	4	4	0	1.35	1.53	0.18	0	0	0	0	0	0	0	0
4/16/2024 8:52	50503	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 8:52	56802	BENV_T2	8	190	182	0.48	0.3	-0.18	-1.62	-1.59	0	0	0	0	0	0
4/16/2024 8:52	63804	HEMP_T1	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
4/16/2024 8:53	54603	SUMM_T2	0	0	0	0	0	0	-0.01	0	1	1	0	900	900	0
4/16/2024 8:53	54602	SUMM_T2	0	10	10	0	0.18	0.18	0	0	0	0	0	0	0	0
4/16/2024 8:53	56802	BENV_T2	8	190	182	0.48	0.3	-0.18	-1.59	-1.49	0	0	0	0	0	0
4/16/2024 8:53	54601	SUMM_T2	10	12	2	0.63	0.64	0.01	0	0	0	0	0	0	0	0
4/16/2024 8:54	56802	BENV_T2	8	190	182	0.48	0.3	-0.18	-0.8	-0.74	0	0	0	0	0	0
4/16/2024 8:54	20403	ASHF_T2	3	1	-2	0.33	0.1	-0.23	0	0	0	0	0	0	0	0
4/16/2024 8:54	50501	MECH_T1	4	4	0	1.35	1.53	0.18	0	0	0	0	0	0	0	0
4/16/2024 8:54	20401	ASHF_T2	0	3	3	0	0.17	0.17	-0.42	-0.41	0	0	0	0	0	0
4/16/2024 8:54	15001	BLMO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 8:54	50503	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 8:54	50506	MECH_T1	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
4/16/2024 8:54	50505	MECH_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/16/2024 8:54	50502	MECH_T1	1	1	0	2.4	2.9	0.5	-0.01	0.01	0	0	0	0	0	0
4/16/2024 8:55	15001	BLMO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 8:56	56802	BENV_T2	8	190	182	0.48	0.3	-0.18	-0.8	-0.74	0	0	0	0	0	0
4/16/2024 8:56	67605	WARW_T1	11	14	3	0.57	0.68	0.11	-1.05	-1.08	0	0	0	0	0	0
4/16/2024 8:56	15001	BLMO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 8:59	63401	HONY_T1	0	0	0	0	0	0	1.04	1.04	0	0	0	0	0	0
4/16/2024 8:59	45702	LIND_T2	1	3	2	0.9	0.47	-0.43	-0.48	-0.5	0	0	0	0	0	0
4/16/2024 9:05	65702	RVIL_T2	0	0	0	0	0	0	-1.01	-1	1	1	0	600	600	0
4/16/2024 9:06	65702	RVIL_T2	0	0	0	0	0	0	-1.01	-1	1	1	0	600	600	0
4/16/2024 9:07	50501	MECH_T1	4	5	1	1.53	1.58	0.05	0	0	0	0	0	0	0	0
4/16/2024 9:07	50506	MECH_T1	1	4	3	0.1	0.38	0.28	0	0	0	0	0	0	0	0
4/16/2024 9:07	50502	MECH_T1	1	1	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
4/16/2024 9:07	50503	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 9:07	50505	MECH_T1	1	1	0	0.2	0.4	0.2	-0.9	-0.93	0	0	0	0	0	0
4/16/2024 9:08	67605	WARW_T1	14	15	1	0.56	0.65	0.09	-1.08	-1.13	0	0	0	0	0	0
4/16/2024 9:10	20403	ASHF_T2	0	5	5	0	0.24	0.24	0.33	0.29	0	0	0	0	0	0
4/16/2024 9:10	20401	ASHF_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/16/2024 9:10	63803	HEMP_T1	1	1	0	0.1	0.2	0.1	0.02	0.02	0	0	0	0	0	0
4/16/2024 9:10	63804	HEMP_T1	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
4/16/2024 9:11	50505	MECH_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/16/2024 9:11	20403	ASHF_T2	0	5	5	0	0.24	0.24	0.33	0.29	0	0	0	0	0	0
4/16/2024 9:11	50502	MECH_T1	1	1	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
4/16/2024 9:11	50501	MECH_T1	4	5	1	1.53	1.58	0.05	0.29	0.28	0	0	0	0	0	0
4/16/2024 9:11	50503	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 9:11	50506	MECH_T1	1	4	3	0.1	0.38	0.28	0	0	0	0	0	0	0	0
4/16/2024 9:11	20401	ASHF_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/16/2024 9:12	63803	HEMP_T1	1	1	0	0.1	0.2	0.1	0.02	0.02	0	0	0	0	0	0
4/16/2024 9:12	63804	HEMP_T1	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
4/16/2024 9:13	45702	LIND_T2	3	2	-1	0.33	0.7	0.37	-0.5	-0.5	0	0	0	0	0	0
4/16/2024 9:13	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
4/16/2024 9:15	59302	MCAL_T1	1	2	1	0.5	0.2	-0.3	-0.45	-0.09	1	1	0	600	600	0
4/16/2024 9:15	59301	MCAL_T1	7	6	-1	0.57	0.57	0	0	0	0	0	0	0	0	0
4/16/2024 9:15	55002	NEWP_T1	17	20	3	0.82	0.92	0.1	-0.23	-0.24	0	0	0	0	0	0
4/16/2024 9:15	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 9:16	24902	WHHA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 9:16	24901	WHHA_T1	74	75	1	0.19	0.2	0.01	0	0	0	0	0	0	0	0
4/16/2024 9:16	55002	NEWP_T1	17	20	3	0.82	0.92	0.1	-0.23	-0.24	0	0	0	0	0	0
4/16/2024 9:16	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/16/2024 9:16	45702	LIND_T2	2	2	0	0.65	0.8	0.15	-0.5	-0.5	0	0	0	0	0	0
4/16/2024 9:16	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
4/16/2024 9:17	52006	LING_T2	2	3	1	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
4/16/2024 9:17	52002	LING_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
4/16/2024 9:17	52004	LING_T2	0	1	1	0	0.7	0.7	0.28	0.39	0	0	0	0	0	0
4/16/2024 9:18	57103	SPHI_T2	0	0	0	0	0	0	-0.4	-0.42	1	1	0	600	600	0
4/16/2024 9:18	57101	SPHI_T2	6	6	0	0.82	0.87	0.05	0	0	0	0	0	0	0	0
4/16/2024 9:18	57106	SPHI_T2	2	2	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
4/16/2024 9:18	57104	SPHI_T2	2	2	0	1.1	3.2	2.1	0	0	0	0	0	0	0	0
4/16/2024 9:20	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 9:20	55002	NEWP_T1	17	20	3	0.82	0.92	0.1	-0.23	-0.24	0	0	0	0	0	0
4/16/2024 9:22	60803	BUCK_T1	7	4	-3	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/16/2024 9:22	60801	BUCK_T1	2	1	-1	0.15	0.2	0.05	-0.61	-0.62	1	1	0	600	600	0
4/16/2024 9:24	56802	BENV_T2	188	183	-5	0.3	0.25	-0.05	-0.76	-0.77	0	0	0	0	0	0
4/16/2024 9:26	56802	BENV_T2	188	183	-5	0.3	0.25	-0.05	-0.76	-0.77	0	0	0	0	0	0
4/16/2024 9:27	67605	WARW_T1	14	22	8	0.68	0.62	-0.06	-1.13	-1.07	0	0	0	0	0	0
4/16/2024 9:28	56802	BENV_T2	188	183	-5	0.3	0.25	-0.05	-0.76	-0.77	0	0	0	0	0	0
4/16/2024 9:30	26401	INOR_T1	2	2	0	4.35	4.35	0	0.7	0.76	0	0	0	0	0	0
4/16/2024 9:32	43201	MVIL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/16/2024 9:32	67605	WARW_T1	15	25	10	0.59	0.58	-0.01	-1.13	-1.07	0	0	0	0	0	0
4/16/2024 9:32	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/16/2024 9:32	43202	MVIL_T2	86	173	87	0.53	0.72	0.19	-0.68	-0.67	0	0	0	0	0	0
4/16/2024 9:35	67203	TEHI_T1	0	0	0	0	0	0	2.66	2.65	2	2	0	1200	1200	0
4/16/2024 9:35	67201	TEHI_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/16/2024 9:37	17002	RIRO_T2	44	26	-18	0.21	0.25	0.04	0.57	0.7	0	0	0	0	0	0
4/16/2024 9:38	45902	AUBU_T1	1	1	0	0.6	1.1	0.5	-0.6	-0.59	1	1	0	600	600	0
4/16/2024 9:39	45902	AUBU_T1	1	1	0	0.6	1.1	0.5	-1.2	-1.18	2	2	0	1200	1200	0
4/16/2024 9:39	67605	WARW_T1	15	25	10	0.59	0.58	-0.01	-1.07	-1.09	0	0	0	0	0	0
4/16/2024 9:39	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/16/2024 9:40	45902	AUBU_T1	1	1	0	0.6	1.1	0.5	-0.6	-0.59	1	1	0	600	600	0
4/16/2024 9:42	45902	AUBU_T1	1	1	0	0.6	1.1	0.5	-0.6	-0.59	1	1	0	600	600	0
4/16/2024 9:42	10801	CHHI_T1	8	14	6	0.64	0.64	0	-0.88	-0.9	1	1	0	900	900	0
4/16/2024 9:43	56802	BENV_T2	130	373	243	0.21	0.28	0.07	-0.77	-0.75	0	0	0	0	0	0
4/16/2024 9:44	45902	AUBU_T1	1	1	0	0.6	1.1	0.5	-0.6	-0.59	1	1	0	600	600	0
4/16/2024 9:44	45701	LIND_T2	0	0	0	0	0	0	-1.02	-0.99	0	0	0	0	0	0
4/16/2024 9:44	45702	LIND_T2	2	4	2	0.7	0.58	-0.12	0	0	0	0	0	0	0	0
4/16/2024 9:45	45702	LIND_T2	2	4	2	0.75	0.7	-0.05	-0.5	-0.47	0	0	0	0	0	0
4/16/2024 9:45	46803	HEPB_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
4/16/2024 9:45	46801	HEPB_T2	2	3	1	0.8	0.95	0.15	0.56	0.57	0	0	0	0	0	0
4/16/2024 9:46	46302	ROHR_T1	66	94	28	0.32	0.28	-0.04	0.1	0.15	0	0	0	0	0	0
4/16/2024 9:46	46803	HEPB_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
4/16/2024 9:46	46301	ROHR_T1	204	274	70	0.31	0.39	0.08	0	0	0	0	0	0	0	0
4/16/2024 9:46	46801	HEPB_T2	2	3	1	0.8	0.95	0.15	0.56	0.57	0	0	0	0	0	0
4/16/2024 9:47	45702	LIND_T2	2	4	2	0.75	0.7	-0.05	-0.5	-0.47	0	0	0	0	0	0
4/16/2024 9:47	58401	MORO_T1	0	1	1	0	0.3	0.3	-1.08	-0.94	1	1	0	600	600	0
4/16/2024 9:48	46302	ROHR_T1	66	94	28	0.32	0.28	-0.04	0.1	0.15	0	0	0	0	0	0
4/16/2024 9:48	46301	ROHR_T1	204	274	70	0.31	0.39	0.08	0	0	0	0	0	0	0	0
4/16/2024 9:49	43202	MVIL_T2	164	177	13	0.67	0.8	0.13	-0.67	-0.64	0	0	0	0	0	0
4/16/2024 9:49	43201	MVIL_T2	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
4/16/2024 9:49	58401	MORO_T1	0	1	1	0	0.3	0.3	-1.08	-0.94	1	1	0	600	600	0
4/16/2024 9:50	43201	MVIL_T2	2	2	0	0.25	0.5	0.25	-0.42	-0.41	0	0	0	0	0	0
4/16/2024 9:50	43202	MVIL_T2	164	177	13	0.67	0.8	0.13	0	0	0	0	0	0	0	0
4/16/2024 9:51	40201	BEGA_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/16/2024 9:51	58401	MORO_T1	0	1	1	0	0.3	0.3	-1.08	-0.94	1	1	0	600	600	0
4/16/2024 9:53	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 9:53	13902	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 9:54	40201	BEGA_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/16/2024 9:55	45901	AUBU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 9:55	45902	AUBU_T1	1	1	0	0.9	1.1	0.2	-0.59	-0.63	1	1	0	600	600	0
4/16/2024 9:58	51602	DUKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 9:58	51604	DUKE_T2	0	1	1	0	0.2	0.2	-0.39	-0.4	0	0	0	0	0	0
4/16/2024 10:00	65004	NEFF_T2	3	2	-1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/16/2024 10:00	24101	EHAZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/16/2024 10:00	57101	SPHI_T2	6	6	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
4/16/2024 10:00	43302	WATS_T2	4	4	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
4/16/2024 10:00	10805	CHHI_T2	1	1	0	8.1	8.3	0.2	-0.65	-0.54	1	1	0	600	600	0
4/16/2024 10:00	66303	MCGO_T2	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/16/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
4/16/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	-1.97	-2.11	0	0	0	0	0	0
4/16/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	0.09	0.08	1	1	0	600	600	0
4/16/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
4/16/2024 10:00	12803	MICK_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/16/2024 10:00	67603	WARW_T1	1	1	0	0.4	0.6	0.2	-0.02	0	0	0	0	0	0	0
4/16/2024 10:00	14603	SWHI_T1	5	5	0	0.44	0.5	0.06	0	0	0	0	0	0	0	0
4/16/2024 10:00	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
4/16/2024 10:00	53902	HALI_T2	3	3	0	2.27	2.23	-0.04	0	0	0	0	0	0	0	0
4/16/2024 10:00	60803	BUCK_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 10:00	12807	MICK_T1	1	0	-1	0.7	0.6	-0.1	0.16	0.17	0	0	0	0	0	0
4/16/2024 10:00	62605	ENGL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/16/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-1.17	-1.09	0	0	0	0	0	0
4/16/2024 10:00	24104	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 10:00	24105	EHAZ_T1	4	4	0	5.88	5.98	0.1	-0.68	-0.75	1	1	0	1200	1200	0
4/16/2024 10:00	60501	NMAN_T2	3	3	0	5.17	5.3	0.13	0	0	0	0	0	0	0	0
4/16/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/16/2024 10:00	14601	SWHI_T1	1	1	0	0.2	0.5	0.3	-0.4	-0.4	0	0	0	0	0	0
4/16/2024 10:00	67701	WERN_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/16/2024 10:00	67703	WERN_T2	1	1	0	0.1	0.3	0.2	1.26	1.3	0	0	0	0	0	0
4/16/2024 10:00	25601	ARRO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 10:00	59301	MCAL_T1	7	4	-3	0.51	0.58	0.07	-1.54	-1.53	1	1	0	600	600	0
4/16/2024 10:00	53501	EVIL_T2	4	5	1	0.55	0.8	0.25	0.11	0.14	1	1	0	600	600	0
4/16/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
4/16/2024 10:00	52502	PROG_T2	1	2	1	0.4	0.45	0.05	-0.77	-0.76	1	1	0	900	900	0
4/16/2024 10:00	45701	LIND_T2	0	0	0	0	0	0	-0.99	-1	0	0	0	0	0	0
4/16/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
4/16/2024 10:00	42903	MIDD_T2	0	0	0	0	0	0	1.61	1.95	0	0	0	0	0	0
4/16/2024 10:00	44502	HAMI_T2	1	2	1	2.7	1.4	-1.3	0	0	0	0	0	0	0	0
4/16/2024 10:00	44601	SALE_T2	0	0	0	0	0	0	1.02	0.04	1	1	0	600	600	0
4/16/2024 10:00	15103	UPHA_T2	2	3	1	0.2	0.45	0.25	0.34	0.38	0	0	0	0	0	0
4/16/2024 10:00	57103	SPHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/16/2024 10:00	63306	GREE_T1	0	0	0	0	0	0	-2.12	-2.09	1	1	0	900	900	0
4/16/2024 10:00	50505	MECH_T1	1	2	1	0.7	0.45	-0.25	-0.86	-0.88	0	0	0	0	0	0
4/16/2024 10:00	65005	NEFF_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/16/2024 10:00	63803	HEMP_T1	3	2	-1	0.37	0.5	0.13	0	0	0	0	0	0	0	0
4/16/2024 10:00	10801	CHHI_T1	9	10	1	0.53	0.84	0.31	-0.9	-0.84	1	1	0	900	900	0
4/16/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.75	0.77	2	2	0	1200	1200	0
4/16/2024 10:00	13606	RICH_T2	2	2	0	3.9	3.95	0.05	1.25	0.97	0	0	0	0	0	0
4/16/2024 10:00	45602	WOOL_T1	7	8	1	0.47	0.61	0.14	0.45	0.47	0	0	0	0	0	0
4/16/2024 10:00	50504	MECH_T1	4	5	1	0.15	0.28	0.13	0	0	0	0	0	0	0	0
4/16/2024 10:00	59101	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 10:00	65003	NEFF_T2	4	3	-1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
4/16/2024 10:00	16102	BING_T2	0	0	0	0	0	0	0.98	1.01	0	0	0	0	0	0
4/16/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-0.93	-0.95	0	0	0	0	0	0
4/16/2024 10:00	66302	MCGO_T2	309	400	91	0.23	0.42	0.19	-1.06	-1.11	1	1	0	600	600	0
4/16/2024 10:00	62607	ENGL_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/16/2024 10:00	55002	NEWP_T1	35	35	0	0.58	0.63	0.05	-0.23	-0.23	0	0	0	0	0	0
4/16/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/16/2024 10:00	62102	ELAN_T1	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
4/16/2024 10:00	42902	MIDD_T2	1	1	0	0.1	0.2	0.1	0.39	0.32	0	0	0	0	0	0
4/16/2024 10:00	16101	BING_T2	1	3	2	9.4	3.33	-6.07	0.27	0.25	0	0	0	0	0	0
4/16/2024 10:00	55001	NEWP_T1	1	4	3	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
4/16/2024 10:00	65001	NEFF_T2	1	0	-1	0.1	0	-0.1	-0.42	-0.36	1	1	0	1200	1200	0
4/16/2024 10:00	46005	BERW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/16/2024 10:00	45601	WOOL_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/16/2024 10:00	57104	SPHI_T2	0	2	2	0	0.6	0.6	-0.18	-0.19	0	0	0	0	0	0
4/16/2024 10:00	65702	RVIL_T2	5	2	-3	0.26	0.2	-0.06	-0.93	-0.95	1	1	0	600	600	0
4/16/2024 10:00	67702	WERN_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/16/2024 10:00	40504	CRES_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/16/2024 10:00	58102	NEKI_T1	2	2	0	0.55	0.5	-0.05	0.41	0.27	0	0	0	0	0	0
4/16/2024 10:00	57106	SPHI_T2	2	2	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
4/16/2024 10:00	53903	HALI_T2	6	5	-1	0.55	0.62	0.07	0	0	0	0	0	0	0	0
4/16/2024 10:00	63801	HEMP_T1	6	1	-5	0.23	0.2	-0.03	0.06	0.27	0	0	0	0	0	0
4/16/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 10:00	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
4/16/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-1.22	-1.1	2	2	0	2100	2100	0
4/16/2024 10:00	63804	HEMP_T1	1	0	0	7	7.3	0.3	0	0	0	0	0	0	0	0
4/16/2024 10:00	50503	MECH_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/16/2024 10:00	67605	WARW_T1	24	18	-6	0.57	0.67	0.1	0	0	0	0	0	0	0	0
4/16/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	-0.04	0.01	0	0	0	0	0	0
4/16/2024 10:00	50506	MECH_T1	6	6	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/16/2024 10:00	14602	SWHI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/16/2024 10:00	46001	BERW_T1	1	0	-1	0.1	0	-0.1	0.75	0.74	0	0	0	0	0	0
4/16/2024 10:00	44505	HAMI_T2	1	3	2	0.7	0.37	-0.33	0.58	0.58	0	0	0	0	0	0
4/16/2024 10:00	59302	MCAL_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
4/16/2024 10:00	60801	BUCK_T1	2	1	-1	0.25	0.2	-0.05	-0.94	-0.8	2	2	0	1200	1200	0
4/16/2024 10:00	64802	MONE_T2	3	1	-2	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/16/2024 10:00	60101	COCA_T1	0	2	2	0	0.3	0.3	0.24	0.28	0	0	0	0	0	0
4/16/2024 10:00	53901	HALI_T2	2	2	0	0.95	0.75	-0.2	-0.49	-0.47	0	0	0	0	0	0
4/16/2024 10:00	45702	LIND_T2	4	4	0	0.53	0.73	0.2	-0.47	-0.48	0	0	0	0	0	0
4/16/2024 10:00	45501	DERR_T2	0	1	1	0	0.5	0.5	0.97	0.95	2	2	0	1800	1800	0
4/16/2024 10:00	45902	AUBU_T1	1	1	0	1.1	1.1	0	-0.59	-0.63	1	1	0	600	600	0
4/16/2024 10:00	64801	MONE_T2	2	2	0	0.55	0.75	0.2	0.23	0.17	0	0	0	0	0	0
4/16/2024 10:00	59102	WALK_T2	0	1	1	0	0.3	0.3	0.92	0.94	0	0	0	0	0	0
4/16/2024 10:00	43301	WATS_T2	4	4	0	0.18	0.18	0	-0.74	-0.78	1	1	0	900	900	0
4/16/2024 10:00	40505	CRES_T1	4	4	0	4.8	4.63	-0.17	0.42	0.45	0	0	0	0	0	0
4/16/2024 10:00	65503	MOJO_T2	3	4	1	0.57	0.38	-0.19	-1.2	-1.26	1	1	0	900	900	0
4/16/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	0.08	0.04	1	1	0	1200	1200	0
4/16/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.25	1.23	0	0	0	0	0	0
4/16/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.18	-0.23	1	1	0	600	600	0
4/16/2024 10:00	25603	ARRO_T1	0	0	0	0	0	0	-0.22	-0.18	0	0	0	0	0	0
4/16/2024 10:00	50501	MECH_T1	4	4	0	1.48	1.38	-0.1	0	0	0	0	0	0	0	0
4/16/2024 10:00	50502	MECH_T1	1	2	1	2.8	1.4	-1.4	0	0	0	0	0	0	0	0
4/16/2024 10:02	24204	PROV_T3	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/16/2024 10:02	24201	PROV_T3	1	1	0	6.8	6.9	0.1	-0.2	-0.18	0	0	0	0	0	0
4/16/2024 10:04	55001	NEWP_T1	1	4	3	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
4/16/2024 10:04	55002	NEWP_T1	35	35	0	0.58	0.63	0.05	0	0	0	0	0	0	0	0
4/16/2024 10:06	55001	NEWP_T1	1	4	3	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
4/16/2024 10:06	40201	BEGA_T2	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
4/16/2024 10:06	55002	NEWP_T1	35	35	0	0.58	0.63	0.05	-0.23	-0.23	0	0	0	0	0	0
4/16/2024 10:06	56501	ROCK_T2	2	2	0	0.6	0.55	-0.05	-0.01	-0.01	0	0	0	0	0	0
4/16/2024 10:06	56504	ROCK_T2	1	2	1	0.3	0.55	0.25	0	0	0	0	0	0	0	0
4/16/2024 10:07	54602	SUMM_T2	0	3	3	0	0.1	0.1	-2.5	-2.52	1	1	0	600	600	0
4/16/2024 10:07	12501	MITR_T2	1	1	0	2.3	4	1.7	0	0	0	0	0	0	0	0
4/16/2024 10:07	50503	MECH_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/16/2024 10:07	51006	NHAR_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/16/2024 10:07	67701	WERN_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/16/2024 10:07	16402	MOPO_T1	0	1	1	0	0.2	0.2	0.09	0.06	0	0	0	0	0	0
4/16/2024 10:07	16401	MOPO_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/16/2024 10:07	64302	LINC_T2	0	0	0	0	0	0	1.04	1.22	0	0	0	0	0	0
4/16/2024 10:07	58803	COCO_T1	23	12	-11	0.28	0.33	0.05	0	0	0	0	0	0	0	0
4/16/2024 10:07	12505	MITR_T2	1	2	1	0.3	0.55	0.25	1.61	1.7	0	0	0	0	0	0
4/16/2024 10:07	54601	SUMM_T2	13	13	0	0.78	0.66	-0.12	0	0	0	0	0	0	0	0
4/16/2024 10:07	48302	ORWI_T2	2	2	0	1.55	1.4	-0.15	0	0	0	0	0	0	0	0
4/16/2024 10:07	67703	WERN_T2	1	1	0	0.1	0.3	0.2	0.63	0.65	0	0	0	0	0	0
4/16/2024 10:07	51004	NHAR_T1	14	8	-6	1.07	1.09	0.02	0	0	0	0	0	0	0	0
4/16/2024 10:07	50506	MECH_T1	6	6	0	0.5	0.6	0.1	0.87	0.63	0	0	0	0	0	0
4/16/2024 10:07	64903	MILL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/16/2024 10:07	50504	MECH_T1	4	5	1	0.15	0.28	0.13	0	0	0	0	0	0	0	0
4/16/2024 10:07	53501	EVIL_T2	4	5	1	0.55	0.8	0.25	0.22	0.29	2	2	0	1200	1200	0
4/16/2024 10:07	50502	MECH_T1	1	2	1	2.8	1.4	-1.4	0	0	0	0	0	0	0	0
4/16/2024 10:07	12601	MACA_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
4/16/2024 10:07	12502	MITR_T2	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
4/16/2024 10:07	51002	NHAR_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/16/2024 10:07	12604	MACA_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
4/16/2024 10:07	46004	BERW_T2	0	0	0	0	0	0	-0.18	-0.03	0	0	0	0	0	0
4/16/2024 10:07	48303	ORWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 10:07	67702	WERN_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/16/2024 10:07	50505	MECH_T1	1	2	1	0.7	0.45	-0.25	-0.86	-0.88	0	0	0	0	0	0
4/16/2024 10:07	64304	LINC_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
4/16/2024 10:07	64902	MILL_T2	1	1	0	0.1	0.3	0.2	-0.77	-0.7	1	1	0	900	900	0
4/16/2024 10:07	50501	MECH_T1	4	4	0	1.48	1.38	-0.1	0	0	0	0	0	0	0	0
4/16/2024 10:07	45402	WBLO_T2	2	4	2	0.3	0.75	0.45	-0.88	-0.88	0	0	0	0	0	0
4/16/2024 10:08	54001	SELE_T1	8	10	2	0.71	0.6	-0.11	0	0	0	0	0	0	0	0
4/16/2024 10:08	13901	SEID_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
4/16/2024 10:08	58001	WCAR_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/16/2024 10:08	50701	SMEC_T1	13	11	-2	0.64	0.69	0.05	0.2	0.2	0	0	0	0	0	0
4/16/2024 10:08	67701	WERN_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/16/2024 10:08	15001	BLMO_T1	4	7	3	0.35	0.36	0.01	0	0	0	0	0	0	0	0
4/16/2024 10:08	44601	SALE_T2	0	0	0	0	0	0	1.02	0.04	1	1	0	600	600	0
4/16/2024 10:08	24602	VARD_T2	319	504	185	0.33	0.53	0.2	-0.81	-0.95	0	0	0	0	0	0
4/16/2024 10:08	22102	EDEL_T1	0	0	0	0	0	0	-0.68	-0.49	1	1	0	1200	1200	0
4/16/2024 10:08	24603	VARD_T2	11	10	-1	0.65	1.03	0.38	0	0	0	0	0	0	0	0
4/16/2024 10:08	45902	AUBU_T1	1	1	0	1.1	1.1	0	-0.63	-0.59	1	1	0	600	600	0
4/16/2024 10:08	10801	OHHI_T1	9	10	1	0.53	0.84	0.31	-0.9	-0.84	1	1	0	900	900	0
4/16/2024 10:08	51401	LYKE_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
4/16/2024 10:08	67702	WERN_T2	2	2	0	0.3	0.5	0.2	-0.05	-0.05	0	0	0	0	0	0
4/16/2024 10:08	67703	WERN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/16/2024 10:08	16301	ALPA_T1	4	4	0	0.45	0.5	0.05	-0.45	-0.45	0	0	0	0	0	0
4/16/2024 10:08	45601	WOOL_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/16/2024 10:08	58003	WCAR_T1	1	1	0	0.2	0.3	0.1	0.07	0.07	1	1	0	600	600	0
4/16/2024 10:08	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 10:08	45602	WOOL_T1	7	8	1	0.47	0.61	0.14	0.45	0.47	0	0	0	0	0	0
4/16/2024 10:08	13902	SEID_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/16/2024 10:09	58402	MORO_T1	0	0	0	0	0	0	-0.13	-0.15	2	2	0	1500	1500	0
4/16/2024 10:09	50506	MECH_T1	6	6	0	0.5	0.6	0.1	0.63	0.96	0	0	0	0	0	0
4/16/2024 10:09	60801	BUCK_T1	2	1	-1	0.25	0.2	-0.05	-0.4	-0.29	1	1	0	600	600	0
4/16/2024 10:09	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 10:09	13902	SEID_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/16/2024 10:09	67703	WERN_T2	1	1	0	0.1	0.3	0.2	0.65	0.64	0	0	0	0	0	0
4/16/2024 10:09	60803	BUCK_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 10:09	40201	BEGA_T2	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
4/16/2024 10:09	50504	MECH_T1	4	5	1	0.15	0.28	0.13	0	0	0	0	0	0	0	0
4/16/2024 10:09	50503	MECH_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/16/2024 10:09	50505	MECH_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
4/16/2024 10:09	51102	CARL_T1	7	7	0	0.24	0.3	0.06	0	0	0	0	0	0	0	0
4/16/2024 10:09	50501	MECH_T1	4	4	0	1.48	1.38	-0.1	0.22	0.45	0	0	0	0	0	0
4/16/2024 10:09	15001	BLMO_T1	4	7	3	0.35	0.36	0.01	0	0	0	0	0	0	0	0
4/16/2024 10:09	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 10:09	67702	WERN_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/16/2024 10:09	58401	MORO_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/16/2024 10:09	51101	CARL_T1	1	1	0	0.5	0.2	-0.3	-0.51	-0.42	0	0	0	0	0	0
4/16/2024 10:09	50502	MECH_T1	1	2	1	2.8	1.4	-1.4	0	0	0	0	0	0	0	0
4/16/2024 10:09	67701	WERN_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/16/2024 10:10	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 10:10	50503	MECH_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/16/2024 10:10	50501	MECH_T1	4	4	0	1.48	1.38	-0.1	0	0	0	0	0	0	0	0
4/16/2024 10:10	50506	MECH_T1	6	6	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/16/2024 10:10	57002	WHHI_T2	1	0	-1	0.3	0	-0.3	-1.41	-1.41	1	1	0	1200	1200	0
4/16/2024 10:10	57006	WHHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/16/2024 10:10	50504	MECH_T1	4	5	1	0.15	0.28	0.13	0	0	0	0	0	0	0	0
4/16/2024 10:10	15001	BLMO_T1	4	7	3	0.35	0.36	0.01	0	0	0	0	0	0	0	0
4/16/2024 10:10	50505	MECH_T1	1	2	1	0.7	0.45	-0.25	-0.88	-0.9	0	0	0	0	0	0
4/16/2024 10:10	57003	WHHI_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/16/2024 10:10	45902	AUBU_T1	1	1	0	1.1	1.1	0	-1.26	-1.19	2	2	0	1200	1200	0
4/16/2024 10:10	67603	WARW_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/16/2024 10:10	41601	CLEV_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/16/2024 10:10	67605	WARW_T1	24	18	-6	0.57	0.67	0.1	-1.08	-1.07	0	0	0	0	0	0
4/16/2024 10:10	50502	MECH_T1	1	2	1	2.8	1.4	-1.4	0	0	0	0	0	0	0	0
4/16/2024 10:11	50502	MECH_T1	1	2	1	2.8	1.4	-1.4	0	0	0	0	0	0	0	0
4/16/2024 10:11	41601	CLEV_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/16/2024 10:11	50505	MECH_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
4/16/2024 10:11	50701	SMEC_T1	13	11	-2	0.64	0.69	0.05	0.2	0.2	0	0	0	0	0	0
4/16/2024 10:11	50506	MECH_T1	6	6	0	0.5	0.6	0.1	0.63	0.96	0	0	0	0	0	0
4/16/2024 10:11	41301	FISH_T1	6	4	-2	1.33	1.8	0.47	-0.01	-0.01	0	0	0	0	0	0
4/16/2024 10:11	50504	MECH_T1	4	5	1	0.15	0.28	0.13	0	0	0	0	0	0	0	0
4/16/2024 10:11	50501	MECH_T1	4	4	0	1.48	1.38	-0.1	0	0	0	0	0	0	0	0
4/16/2024 10:11	50503	MECH_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/16/2024 10:12	41601	CLEV_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/16/2024 10:12	67603	WARW_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/16/2024 10:12	53601	DALM_T2	1	1	0	1.6	1.5	-0.1	0.03	-0.01	1	1	0	900	900	0
4/16/2024 10:12	67605	WARW_T1	24	18	-6	0.57	0.67	0.1	-1.08	-1.07	0	0	0	0	0	0
4/16/2024 10:12	50701	SMEC_T1	13	11	-2	0.64	0.69	0.05	0.2	0.2	0	0	0	0	0	0
4/16/2024 10:13	67603	WARW_T1	1	1	0	0.4	0.6	0.2	0	-0.03	0	0	0	0	0	0
4/16/2024 10:13	63401	HONY_T1	0	1	1	0	0	0	1.28	1.22	0	0	0	0	0	0
4/16/2024 10:13	67605	WARW_T1	24	18	-6	0.57	0.67	0.1	0	0	0	0	0	0	0	0
4/16/2024 10:14	46302	ROHR_T1	86	124	38	0.27	0.3	0.03	0	0	0	0	0	0	0	0
4/16/2024 10:14	46301	ROHR_T1	261	310	49	0.36	0.46	0.1	0.45	0.57	0	0	0	0	0	0
4/16/2024 10:14	28403	HART_T2	0	1	1	0	0.1	0.1	-0.93	-0.92	1	1	0	900	900	0
4/16/2024 10:14	10801	OHHI_T1	9	10	1	0.53	0.84	0.31	-0.84	-0.87	1	1	0	900	900	0
4/16/2024 10:14	17401	FOHI_T1	0	0	0	0	0	0	-1.03	-1.01	0	0	0	0	0	0
4/16/2024 10:15	46301	ROHR_T1	248	312	64	0.38	0.48	0.1	0	0	0	0	0	0	0	0
4/16/2024 10:15	46302	ROHR_T1	48	165	117	0.41	0.33	-0.08	0.14	0.11	0	0	0	0	0	0
4/16/2024 10:15	41301	FISH_T1	4	5	1	1.73	1.52	-0.21	-0.01	-0.01	0	0	0	0	0	0
4/16/2024 10:16	55003	NEWP_T2	8	9	1	0.39	0.45	0.06	-0.13	-0.12	0	0	0	0	0	0
4/16/2024 10:16	13503	MCMI_T2	2	4	2	0.8	0.48	-0.32	-0.01	-0.01	0	0	0	0	0	0
4/16/2024 10:17	43201	MVIL_T2	2	7	5	0.5	0.47	-0.03	-0.39	-0.39	0	0	0	0	0	0
4/16/2024 10:17	43202	MVIL_T2	171	186	15	0.8	1.11	0.31	0	0	0	0	0	0	0	0
4/16/2024 10:17	46301	ROHR_T1	248	312	64	0.38	0.48	0.1	0	0	0	0	0	0	0	0
4/16/2024 10:17	45702	LIND_T2	2	4	2	1.1	0.73	-0.37	-0.48	-0.47	0	0	0	0	0	0
4/16/2024 10:17	46302	ROHR_T1	48	165	117	0.41	0.33	-0.08	0.14	0.11	0	0	0	0	0	0
4/16/2024 10:18	13103	NHAM_T2	0	0	0	0	0	0	-1.77	-1.75	1	1	0	600	600	0
4/16/2024 10:18	45702	LIND_T2	2	4	2	1.1	0.73	-0.37	-0.95	-0.94	0	0	0	0	0	0
4/16/2024 10:18	55001	NEWP_T1	3	4	1	0.17	0.33	0.16	0	0	0	0	0	0	0	0
4/16/2024 10:18	55002	NEWP_T1	23	57	34	0.75	0.48	-0.27	-0.46	-0.44	0	0	0	0	0	0
4/16/2024 10:18	58401	MORO_T1	1	2	1	0.3	0.25	-0.05	-1	-1	1	1	0	600	600	0
4/16/2024 10:18	65503	MOJO_T2	3	4	1	0.47	0.43	-0.04	-1.26	-1.21	1	1	0	900	900	0
4/16/2024 10:18	58302	NOTT_T1	3	3	0	0.27	0.27	0	-0.2	-0.22	1	1	0	1200	1200	0
4/16/2024 10:19	55002	NEWP_T1	23	57	34	0.75	0.48	-0.27	-0.23	-0.22	0	0	0	0	0	0
4/16/2024 10:19	55001	NEWP_T1	3	4	1	0.17	0.33	0.16	0	0	0	0	0	0	0	0
4/16/2024 10:20	43202	MVIL_T2	171	186	15	0.8	1.11	0.31	-0.63	-0.65	0	0	0	0	0	0
4/16/2024 10:20	40302	TAMA_T3	27	27	0	0.41	0.42	0.01	0.27	0.26	0	0	0	0	0	0
4/16/2024 10:20	43201	MVIL_T2	2	7	5	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
4/16/2024 10:20	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 10:20	40303	TAMA_T3	2	2	0	0.35	0	0	0	0	0	0	0	0	0	0
4/16/2024 10:21	43202	MVIL_T2	171	186	15	0.8	1.11	0.31	-0.63	-0.65	0	0	0	0	0	0
4/16/2024 10:21	23001	SAJO_T1	0	0	0	0	0	0	0.05	-0.02	0	0	0	0	0	0
4/16/2024 10:21	43201	MVIL_T2	2	7	5	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
4/16/2024 10:21	23002	SAJO_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
4/16/2024 10:22	67203	TEHI_T1	0	0	0	0	0	0	2.66	2.71	2	2	0	1200	1200	0
4/16/2024 10:22	45902	AUBU_T1	1	1	0	1.1	1.2	0.1	-0.63	-0.59	1	1	0	600	600	0
4/16/2024 10:22	20401	ASHF_T2	1	3	2	3.1	0.17	-2.93	-0.38	-0.29	0	0	0	0	0	0
4/16/2024 10:22	20403	ASHF_T2	4	12	8	0.23	0.61	0.38	0	0	0	0	0	0	0	0
4/16/2024 10:22	67201	TEHI_T1	2	2	0	0.1	0.45	0.35	0	0	0	0	0	0	0	0
4/16/2024 10:22	20402	ASHF_T2	3	4	1	0.43	0.45	0.02	0	0	0	0	0	0	0	0
4/16/2024 10:23	61101	BERK_T5	5	4	-1	0.32	0.68	0.36	0	0	0	0	0	0	0	0
4/16/2024 10:23	61103	BERK_T5	10	29	19	0.24	0.26	0.02	-0.02	0.1	0	0	0	0	0	0
4/16/2024 10:23	43802	SWIL_T1	0	0	0	0	0	0	-0.22	-0.21	1	1	0	600	600	0
4/16/2024 10:23	61102	BERK_T5	3	6	3	0.27	0.27	0	0	0	0	0	0	0	0	0
4/16/2024 10:23	20403	ASHF_T2	4	12	8	0.23	0.61	0.38	0.26	0.19	0	0	0	0	0	0
4/16/2024 10:23	20402	ASHF_T2	3	4	1	0.43	0.45	0.02	0	0	0	0	0	0	0	0
4/16/2024 10:23	20401	ASHF_T2	1	3	2	3.1	0.17	-2.93	0	0	0	0	0	0	0	0
4/16/2024 10:23	43801	SWIL_T1	2	2	0	2.55	2.7	0.15	0	0	0	0	0	0	0	0
4/16/2024 10:24	61102	BERK_T5	3	6	3	0.27	0.27	0	0	0	0	0	0	0	0	0
4/16/2024 10:24	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 10:24	21206	ECAR_T2	1	1	0	7.2	7.4	0.2	1.55	1.58	0	0	0	0	0	0
4/16/2024 10:24	61101	BERK_T5	5	4	-1	0.32	0.68	0.36	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/16/2024 10:24	67501	WEWI_T1	4	7	3	0.58	0.61	0.03	-0.42	-0.48	0	0	0	0	0	0
4/16/2024 10:24	61103	BERK_T5	10	29	19	0.24	0.26	0.02	-0.01	0.03	0	0	0	0	0	0
4/16/2024 10:24	67505	WEWI_T1	1	1	0	0.3	0.3	0	-0.26	-0.23	1	1	0	900	900	0
4/16/2024 10:25	20402	ASHF_T2	3	4	1	0.43	0.45	0.02	0	0	0	0	0	0	0	0
4/16/2024 10:25	20403	ASHF_T2	4	12	8	0.23	0.61	0.38	0.26	0.19	0	0	0	0	0	0
4/16/2024 10:25	61102	BERK_T5	3	6	3	0.27	0.27	0	0.58	0.46	1	1	0	300	300	0
4/16/2024 10:25	61101	BERK_T5	5	4	-1	0.32	0.68	0.36	0	0	0	0	0	0	0	0
4/16/2024 10:25	61103	BERK_T5	10	29	19	0.24	0.26	0.02	0	0	0	0	0	0	0	0
4/16/2024 10:25	20401	ASHF_T2	1	3	2	3.1	0.17	-2.93	0	0	0	0	0	0	0	0
4/16/2024 10:26	46204	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 10:26	46205	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 10:26	62601	ENGL_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
4/16/2024 10:26	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 10:26	62605	ENGL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/16/2024 10:26	62607	ENGL_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/16/2024 10:26	46203	DANV_T2	9	29	20	0.39	0.29	-0.1	0.35	0.36	0	0	0	0	0	0
4/16/2024 10:27	61102	BERK_T5	3	6	3	0.27	0.27	0	0	0	0	0	0	0	0	0
4/16/2024 10:27	21206	ECAR_T2	1	1	0	7.2	7.4	0.2	1.55	1.58	0	0	0	0	0	0
4/16/2024 10:27	46203	DANV_T2	9	29	20	0.39	0.29	-0.1	0	0	0	0	0	0	0	0
4/16/2024 10:27	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 10:27	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 10:27	46206	DANV_T2	0	0	0	0	0	0	1.59	1.55	0	0	0	0	0	0
4/16/2024 10:27	61101	BERK_T5	5	4	-1	0.32	0.68	0.36	0	0	0	0	0	0	0	0
4/16/2024 10:27	46205	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 10:27	61103	BERK_T5	10	29	19	0.24	0.26	0.02	-0.01	0.03	0	0	0	0	0	0
4/16/2024 10:27	63302	GREE_T1	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
4/16/2024 10:27	46204	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 10:29	46204	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 10:29	46203	DANV_T2	9	29	20	0.39	0.29	-0.1	0	0	0	0	0	0	0	0
4/16/2024 10:29	40902	JESH_T1	0	0	0	0	0	0	-0.12	-0.4	1	1	0	600	600	0
4/16/2024 10:29	46205	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 10:29	46206	DANV_T2	0	0	0	0	0	0	1.59	1.55	0	0	0	0	0	0
4/16/2024 10:29	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 10:30	61103	BERK_T5	12	31	19	0.27	0.27	0	-0.01	0.03	0	0	0	0	0	0
4/16/2024 10:30	61101	BERK_T5	4	7	3	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
4/16/2024 10:30	61102	BERK_T5	2	6	4	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/16/2024 10:31	63401	HONY_T1	0	0	0	0	0	0	1.22	1.15	0	0	0	0	0	0
4/16/2024 10:33	66501	SMAN_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
4/16/2024 10:33	66502	SMAN_T2	1	2	1	0.2	0.8	0.6	0.32	0.36	0	0	0	0	0	0
4/16/2024 10:33	66504	SMAN_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/16/2024 10:33	58401	MORO_T1	2	2	0	0.25	0.3	0.05	-1	-0.96	1	1	0	600	600	0
4/16/2024 10:33	42902	MIDD_T2	1	8	7	0.2	0.49	0.29	0.17	0.17	0	0	0	0	0	0
4/16/2024 10:34	66504	SMAN_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/16/2024 10:34	66502	SMAN_T2	1	2	1	0.2	0.8	0.6	0.32	0.36	0	0	0	0	0	0
4/16/2024 10:34	66501	SMAN_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
4/16/2024 10:34	42902	MIDD_T2	1	8	7	0.2	0.49	0.29	0.17	0.17	0	0	0	0	0	0
4/16/2024 10:34	17002	RIRO_T2	13	24	11	0.32	0.28	-0.04	0.62	0.72	0	0	0	0	0	0
4/16/2024 10:35	23001	SAJO_T1	0	1	1	0	0.2	0.2	-0.02	-0.03	0	0	0	0	0	0
4/16/2024 10:35	23002	SAJO_T1	1	1	0	0.7	1.4	0.7	0	0	0	0	0	0	0	0
4/16/2024 10:36	58401	MORO_T1	2	2	0	0.25	0.3	0.05	-1	-0.96	1	1	0	600	600	0
4/16/2024 10:36	49804	UNIV_T1	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/16/2024 10:36	49803	UNIV_T1	3	6	3	0.97	0.67	-0.3	-1.2	-1.18	0	0	0	0	0	0
4/16/2024 10:37	66703	STRA_T1	1	2	1	0.3	0.4	0.1	-0.1	-0.1	0	0	0	0	0	0
4/16/2024 10:37	66501	SMAN_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
4/16/2024 10:37	66701	STRA_T1	1	3	2	2.3	0.97	-1.33	0	0	0	0	0	0	0	0
4/16/2024 10:37	66502	SMAN_T2	1	2	1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
4/16/2024 10:37	66504	SMAN_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/16/2024 10:37	66505	SMAN_T2	0	0	0	0	0	0	0.27	0.48	2	2	0	1100	1100	0
4/16/2024 10:38	66701	STRA_T1	1	3	2	2.3	0.97	-1.33	0	0	0	0	0	0	0	0
4/16/2024 10:38	66703	STRA_T1	1	2	1	0.3	0.4	0.1	-0.1	-0.07	0	0	0	0	0	0
4/16/2024 10:39	49804	UNIV_T1	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/16/2024 10:39	20403	ASHF_T2	8	12	4	0.49	0.63	0.14	0	0	0	0	0	0	0	0
4/16/2024 10:39	49803	UNIV_T1	3	6	3	0.97	0.67	-0.3	-1.18	-1.21	0	0	0	0	0	0
4/16/2024 10:39	20402	ASHF_T2	3	4	1	0.4	0.43	0.03	0	0	0	0	0	0	0	0
4/16/2024 10:39	20401	ASHF_T2	0	6	6	0	0.2	0.2	-0.33	-0.32	0	0	0	0	0	0
4/16/2024 10:43	65205	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 10:46	25404	LAHA_T2	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
4/16/2024 10:46	25402	LAHA_T2	0	1	1	0	0.4	0.4	-0.42	-0.33	0	0	0	0	0	0
4/16/2024 10:50	59102	WALK_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/16/2024 10:50	59101	WALK_T2	0	0	0	0	0	0	3.97	4.08	0	0	0	0	0	0
4/16/2024 10:51	66504	SMAN_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/16/2024 10:51	66503	SMAN_T2	0	0	0	0	0	0	0.38	0.41	0	0	0	0	0	0
4/16/2024 10:51	66501	SMAN_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
4/16/2024 10:51	66502	SMAN_T2	2	2	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
4/16/2024 10:52	42902	MIDD_T2	7	4	-3	0.43	0.63	0.2	0.17	0.18	0	0	0	0	0	0
4/16/2024 10:52	44301	BEAV_T2	0	2	2	0	0.2	0.2	0.6	0.43	2	2	0	1500	1500	0
4/16/2024 10:52	44302	BEAV_T2	4	4	0	0.45	0.48	0.03	0	0	0	0	0	0	0	0
4/16/2024 10:53	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
4/16/2024 10:53	67605	WARW_T1	16	22	6	0.73	0.65	-0.08	-1.05	-1.02	0	0	0	0	0	0
4/16/2024 10:53	15702	TANN_T2	0	0	0	0	0	0	0.82	0.86	0	0	0	0	0	0
4/16/2024 10:53	67603	WARW_T1	2	2	0	0.55	0.8	0.25	0	0	0	0	0	0	0	0
4/16/2024 10:54	46001	BERW_T1	0	1	1	0	0.1	0.1	1.55	1.98	0	0	0	0	0	0
4/16/2024 10:54	46005	BERW_T1	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
4/16/2024 10:54	42701	AUGU_T1	5	5	0	0.5	0.54	0.04	0	0	2	2	0	1800	1800	0
4/16/2024 10:55	42701	AUGU_T1	5	5	0	0.5	0.54	0.04	0	0	2	2	0	1800	1800	0
4/16/2024 10:56	54602	SUMM_T2	7	7	0	0.13	0.19	0.06	0	0	0	0	0	0	0	0
4/16/2024 10:56	54601	SUMM_T2	13	13	0	0.61	0.69	0.08	-1.85	-1.81	2	2	0	2100	2100	0
4/16/2024 10:59	46803	HEPB_T2	2	5	3	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
4/16/2024 10:59	46801	HEPB_T2	2	2	0	0.9	1	0.1	0.58	0.63	0	0	0	0	0	0
4/16/2024 10:59	11202	ELHE_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
4/16/2024 11:00	46801	HEPB_T2	2	2	0	0.85	1.05	0.2	0.58	0.63	0	0	0	0	0	0
4/16/2024 11:00	46803	HEPB_T2	3	6	3	0.53	0.4	-0.13	0.49	0.49	0	0	0	0	0	0
4/16/2024 11:00	40902	JESH_T1	1	2	1	0.1	0.25	0.15	-0.44	-0.52	1	1	0	600	600	0
4/16/2024 11:02	40902	JESH_T1	1	2	1	0.1	0.25	0.15	-0.44	-0.52	1	1	0	600	600	0
4/16/2024 11:03	52502	PROG_T2	5	5	0	0.44	0.62	0.18	-0.73	-0.74	1	1	0	900	900	0
4/16/2024 11:03	55001	NEWP_T1	5	12	7	0.32	0.67	0.35	0.09	-0.13	0	0	0	0	0	0
4/16/2024 11:03	55002	NEWP_T1	92	134	42	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
4/16/2024 11:03	46802	HEPB_T1	4	3	-1	0.5	0.87	0.37	-0.32	-0.33	0	0	0	0	0	0
4/16/2024 11:04	58402	MORO_T1	0	0	0	0	0	0	-0.15	-0.14	2	2	0	1500	1500	0
4/16/2024 11:04	58401	MORO_T1	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/16/2024 11:05	40902	JESH_T1	1	2	1	0.1	0.25	0.15	-0.44	-0.52	1	1	0	600	600	0
4/16/2024 11:05	67203	TEHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 11:05	67201	TEHI_T1	3	4	1	0.43	0.58	0.15	0.79	0.77	1	1	0	600	600	0
4/16/2024 11:06	58401	MORO_T1	2	2	0	0.3	0.25	-0.05	-0.99	-0.97	1	1	0	600	600	0
4/16/2024 11:07	52502	PROG_T2	5	5	0	0.44	0.62	0.18	-0.73	-0.74	1	1	0	900	900	0
4/16/2024 11:07	44301	BEAV_T2	1	7	6	0.2	0.28	0.08	0.43	0.81	2	2	0	1500	1500	0
4/16/2024 11:07	58401	MORO_T1	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/16/2024 11:07	58402	MORO_T1	0	0	0	0	0	0	-0.15	-0.14	2	2	0	1500	1500	0
4/16/2024 11:07	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 11:07	26002	WDAM_T1	3	3	0	0.53	0.8	0.27	0	0	0	0	0	0	0	0
4/16/2024 11:07	67501	WEWI_T1	5	6	1	0.74	0.77	0.03	-0.48	-0.48	0	0	0	0	0	0
4/16/2024 11:07	26001	WDAM_T1	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
4/16/2024 11:07	67505	WEWI_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/16/2024 11:07	44302	BEAV_T2	4	9	5	0.45	0.54	0.09	0	0	0	0	0	0	0	0
4/16/2024 11:08	44301	BEAV_T2	1	7	6	0.2	0.28	0.08	0.43	0.81	2	2	0	1500	1500	0
4/16/2024 11:08	66903	SHIL_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/16/2024 11:08	45902	AUBU_T1	1	1	0	1.1	1.3	0.2	-0.57	-0.63	1	1	0	600	600	0
4/16/2024 11:08	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 11:08	44302	BEAV_T2	4	9	5	0.45	0.54	0.09	0	0	0	0	0	0	0	0
4/16/2024 11:08	66901	SHIL_T2	2	4	2	0.25	0.3	0.05	-0.23	-0.29	0	0	0	0	0	0
4/16/2024 11:08	66902	SHIL_T2	2	4	2	0.65	0.65	0	0	0	0	0	0	0	0	0
4/16/2024 11:09	64101	REFR_T1	0	0	0	0	0	0	-0.96	-0.86	0	0	0	0	0	0
4/16/2024 11:09	16302	ALPA_T2	2	2	0	0.2	0.3	0.1	0.68	0.64	0	0	0	0	0	0
4/16/2024 11:10	45601	WOOL_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/16/2024 11:10	53601	DALM_T2	1	2	1	1.4	1.5	0.1	0.02	0.05	1	1	0	900	900	0
4/16/2024 11:10	45602	WOOL_T1	10	10	0	0.66	0.79	0.13	0.51	0.44	0	0	0	0	0	0
4/16/2024 11:11	51101	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 11:11	24902	WHHA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 11:11	42701	AUGU_T1	5	6	1	0.54	0.53	-0.01	0	0	2	2	0	1800	1800	0
4/16/2024 11:11	51102	CARL_T1	5	5	0	0.44	0.48	0.04	0	0	0	0	0	0	0	0
4/16/2024 11:11	51107	CARL_T1	0	0	0	0	0	0	0.16	0.12	0	0	0	0	0	0
4/16/2024 11:11	45601	WOOL_T1	1	1	0	0.4	0.8	0.4	-0.25	-0.22	1	1	0	1200	1200	0
4/16/2024 11:11	24901	WHHA_T1	275	154	-121	0.23	0.24	0.01	0	0	0	0	0	0	0	0
4/16/2024 11:11	45602	WOOL_T1	10	10	0	0.66	0.79	0.13	0.51	0.44	0	0	0	0	0	0
4/16/2024 11:12	46002	BERW_T2	1	1	0	0.2	0.4	0.2	-0.72	-0.73	1	1	0	900	900	0
4/16/2024 11:12	46004	BERW_T2	1	4	3	0.6	0.38	-0.22	-0.13	0	0	0	0	0	0	0
4/16/2024 11:12	11601	CEAL_T1	3	3	0	0.63	0.7	0.07	0	0	1	1	0	1200	1200	0
4/16/2024 11:13	45801	HEGI_T1	0	0	0	0	0	0	0.01	0	1	1	0	900	900	0
4/16/2024 11:14	45902	AUBU_T1	1	1	0	1.1	1.3	0.2	-0.57	-0.63	1	1	0	600	600	0
4/16/2024 11:15	23202	HIRU_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
4/16/2024 11:15	24902	WHHA_T1	0	5	5	0	0.38	0.38	0	0	0	0	0	0	0	0
4/16/2024 11:15	53903	HALI_T2	6	10	4	0.6	0.65	0.05	0	0	0	0	0	0	0	0
4/16/2024 11:15	53902	HALI_T2	3	3	0	2.5	2.6	0.1	-0.25	-0.27	0	0	0	0	0	0
4/16/2024 11:15	53901	HALI_T2	2	3	1	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
4/16/2024 11:15	24901	WHHA_T1	137	124	-13	0.23	0.25	0.02	0	0	0	0	0	0	0	0
4/16/2024 11:16	45701	LIND_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
4/16/2024 11:16	40902	JESH_T1	2	2	0	0.15	0.25	0.1	-0.52	-0.55	1	1	0	600	600	0
4/16/2024 11:16	45702	LIND_T2	2	7	5	1.35	0.59	-0.76	0	0	0	0	0	0	0	0
4/16/2024 11:17	28805	LAKE_T1	1	1	0	0.2	0.6	0.4	-0.25	-0.25	0	0	0	0	0	0
4/16/2024 11:17	28801	LAKE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 11:19	42204	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 11:19	65904	SAKR_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
4/16/2024 11:19	55105	WERT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/16/2024 11:19	65901	SAKR_T2	2	2	0	4.75	5.15	0.4	-1.04	-1.22	1	1	0	900	900	0
4/16/2024 11:19	52502	PROG_T2	5	5	0	0.46	0.6	0.14	-0.74	-0.73	1	1	0	900	900	0
4/16/2024 11:19	42201	SHEN_T2	0	2	2	0	0.15	0.15	0.02	0.02	1	1	0	600	600	0
4/16/2024 11:20	65601	QVIL_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
4/16/2024 11:20	15103	LIPHA_T2	2	4	2	0.75	0.55	-0.2	0.39	0.39	0	0	0	0	0	0
4/16/2024 11:20	65604	QVIL_T2	0	0	0	0	0	0	0.22	0.3	0	0	0	0	0	0
4/16/2024 11:20	52502	PROG_T2	5	5	0	0.46	0.6	0.14	-1.47	-1.46	2	2	0	1800	1800	0
4/16/2024 11:20	42204	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 11:20	42201	SHEN_T2	0	2	2	0	0.15	0.15	0.02	0.02	1	1	0	600	600	0
4/16/2024 11:21	40902	JESH_T1	2	2	0	0.15	0.25	0.1	-0.52	-0.55	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/16/2024 11:21	52502	PROG_T2	5	5	0	0.46	0.6	0.14	-0.74	-0.73	1	1	0	900	900	0
4/16/2024 11:22	42802	SELI_T1	0	0	0	0	0	0	-1.6	-1.6	2	2	0	1800	1800	0
4/16/2024 11:23	15204	SFAR_T2	1	3	2	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/16/2024 11:23	15203	SFAR_T2	31	30	-1	0.4	0.44	0.04	-3.06	-3.06	0	0	0	0	0	0
4/16/2024 11:24	57006	WHHI_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/16/2024 11:24	60803	BUCK_T1	0	1	1	0	0.1	0.1	-1.19	-1.2	1	1	0	600	600	0
4/16/2024 11:24	57003	WHHI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/16/2024 11:24	45902	AUBU_T1	1	1	0	1	1.3	0.3	-0.63	-0.57	1	1	0	600	600	0
4/16/2024 11:24	60801	BUCK_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
4/16/2024 11:24	57004	WHHI_T2	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
4/16/2024 11:25	23901	EFMO_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/16/2024 11:25	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
4/16/2024 11:25	15702	TANN_T2	0	1	1	0	0.2	0.2	0.88	0.9	0	0	0	0	0	0
4/16/2024 11:25	16301	ALPA_T1	12	13	1	0.46	0.52	0.06	-0.43	-0.42	0	0	0	0	0	0
4/16/2024 11:25	23902	EFMO_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/16/2024 11:26	67502	WEWI_T2	4	5	1	0.85	0.76	-0.09	-0.14	-0.22	0	0	0	0	0	0
4/16/2024 11:27	10801	CHHI_T1	13	65	52	0.76	0.37	-0.39	-0.88	-0.84	1	1	0	900	900	0
4/16/2024 11:27	67502	WEWI_T2	4	5	1	0.85	0.76	-0.09	-0.14	-0.22	0	0	0	0	0	0
4/16/2024 11:28	60803	BUCK_T1	0	1	1	0	0.1	0.1	-1.19	-1.2	1	1	0	600	600	0
4/16/2024 11:28	60801	BUCK_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
4/16/2024 11:29	28701	HAML_T2	2	5	3	1	0.66	-0.34	0	0	0	0	0	0	0	0
4/16/2024 11:29	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/16/2024 11:29	45902	AUBU_T1	1	1	0	1	1.3	0.3	-0.63	-0.57	1	1	0	600	600	0
4/16/2024 11:29	63403	HONY_T2	0	1	1	0	0.5	0.5	0.01	-0.02	1	1	0	600	600	0
4/16/2024 11:29	63402	HONY_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/16/2024 11:29	28703	HAML_T2	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/16/2024 11:30	46803	HEPB_T2	6	6	0	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
4/16/2024 11:30	22101	EDEL_T2	2	2	0	0.6	0.8	0.2	0.33	0.34	1	1	0	1200	1200	0
4/16/2024 11:30	66303	MCGO_T2	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
4/16/2024 11:30	46801	HEPB_T2	2	2	0	1.05	1.1	0.05	0.64	0.63	0	0	0	0	0	0
4/16/2024 11:30	66302	MCGO_T2	13	7	-6	0.38	0.4	0.02	-1.97	-2.14	2	2	0	1200	1200	0
4/16/2024 11:31	46801	HEPB_T2	2	2	0	1.05	1.1	0.05	0.64	0.63	0	0	0	0	0	0
4/16/2024 11:31	46803	HEPB_T2	6	6	0	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
4/16/2024 11:32	64704	LITI_T1	0	0	0	0	0	0	0.34	0.26	1	1	0	600	600	0
4/16/2024 11:33	40902	JESH_T1	2	2	0	0.25	0.2	-0.05	-0.55	-0.53	1	1	0	600	600	0
4/16/2024 11:33	16102	BING_T2	7	7	0	0.73	0.99	0.26	0	0	0	0	0	0	0	0
4/16/2024 11:33	16103	BING_T2	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
4/16/2024 11:33	42802	SELI_T1	0	0	0	0	0	0	-0.8	-0.79	1	1	0	900	900	0
4/16/2024 11:33	16101	BING_T2	2	3	1	0.85	0.77	-0.08	0.27	0.28	0	0	0	0	0	0
4/16/2024 11:33	42801	SELI_T1	0	1	1	0	10	10	0	0	0	0	0	0	0	0
4/16/2024 11:34	67402	WAKE_T2	1	1	0	0.1	0.3	0.2	0.42	0.41	1	1	0	600	600	0
4/16/2024 11:34	66302	MCGO_T2	13	7	-6	0.38	0.4	0.02	-1.97	-2.14	2	2	0	1200	1200	0
4/16/2024 11:34	66303	MCGO_T2	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
4/16/2024 11:35	52502	PROG_T2	5	4	-1	0.6	0.63	0.03	-0.73	-0.7	1	1	0	900	900	0
4/16/2024 11:35	65601	QVIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/16/2024 11:35	47401	PENS_T1	6	4	-2	1.03	1.13	0.1	1.13	1.03	0	0	0	0	0	0
4/16/2024 11:35	58401	MORO_T1	2	3	1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/16/2024 11:35	65604	QVIL_T2	0	0	0	0	0	0	0.3	0.25	0	0	0	0	0	0
4/16/2024 11:35	47403	PENS_T1	6	1	-5	0.53	0.1	-0.43	0	0	0	0	0	0	0	0
4/16/2024 11:35	47402	PENS_T1	4	3	-1	0.8	0.8	0	0	0	0	0	0	0	0	0
4/16/2024 11:35	58402	MORO_T1	0	0	0	0	0	0	-0.17	-0.17	2	2	0	1500	1500	0
4/16/2024 11:36	15103	UPHA_T2	4	4	0	0.55	0.53	-0.02	0.39	0.39	0	0	0	0	0	0
4/16/2024 11:37	15704	TANN_T1	7	8	1	0.4	0.44	0.04	-1.22	-1.26	0	0	0	0	0	0
4/16/2024 11:37	42802	SELI_T1	0	0	0	0	0	0	-0.8	-0.79	1	1	0	900	900	0
4/16/2024 11:37	15701	TANN_T1	3	4	1	1.93	1.45	-0.48	0	0	0	0	0	0	0	0
4/16/2024 11:37	67803	WLAN_T1	7	9	2	0.39	0.32	-0.07	-0.9	-0.91	0	0	0	0	0	0
4/16/2024 11:37	42801	SELI_T1	0	1	1	0	10	10	0	0	0	0	0	0	0	0
4/16/2024 11:37	67804	WLAN_T1	10	11	1	0.37	0.39	0.02	0	0	0	0	0	0	0	0
4/16/2024 11:38	58402	MORO_T1	0	0	0	0	0	0	-0.17	-0.16	2	2	0	1500	1500	0
4/16/2024 11:38	58401	MORO_T1	2	3	1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/16/2024 11:38	40902	JESH_T1	2	2	0	0.25	0.2	-0.05	-0.55	-0.53	1	1	0	600	600	0
4/16/2024 11:38	67803	WLAN_T1	7	9	2	0.39	0.32	-0.07	-0.91	-0.92	0	0	0	0	0	0
4/16/2024 11:38	67804	WLAN_T1	10	11	1	0.37	0.39	0.02	0	0	0	0	0	0	0	0
4/16/2024 11:39	41602	CLEV_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/16/2024 11:39	41601	CLEV_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
4/16/2024 11:40	41601	CLEV_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
4/16/2024 11:40	41602	CLEV_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/16/2024 11:40	67804	WLAN_T1	10	11	1	0.37	0.39	0.02	0	0	0	0	0	0	0	0
4/16/2024 11:40	45902	AUBU_T1	1	1	0	1.3	1.1	-0.2	-0.57	-0.59	1	1	0	600	600	0
4/16/2024 11:40	67803	WLAN_T1	7	9	2	0.39	0.32	-0.07	-0.91	-0.92	0	0	0	0	0	0
4/16/2024 11:41	41602	CLEV_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/16/2024 11:41	41802	GOCI_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/16/2024 11:41	41801	GOCI_T2	281	338	57	0.54	0.72	0.18	0	0	0	0	0	0	0	0
4/16/2024 11:41	41601	CLEV_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
4/16/2024 11:43	42902	MIDD_T2	123	11	-112	2.53	0.35	-2.18	0	0	0	0	0	0	0	0
4/16/2024 11:43	41801	GOCI_T2	281	338	57	0.54	0.72	0.18	0	0	0	0	0	0	0	0
4/16/2024 11:43	41802	GOCI_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/16/2024 11:43	44301	BEAV_T2	6	7	1	0.28	0.17	-0.11	0.99	0.79	2	2	0	1500	1500	0
4/16/2024 11:43	42903	MIDD_T2	1	2	1	0.3	0.8	0.5	1.6	0.62	0	0	0	0	0	0
4/16/2024 11:43	44302	BEAV_T2	9	6	-3	0.54	0.3	-0.24	0	0	0	0	0	0	0	0
4/16/2024 11:44	66901	SHIL_T2	4	4	0	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
4/16/2024 11:44	66902	SHIL_T2	4	5	1	0.65	0.38	-0.27	0	0	0	0	0	0	0	0
4/16/2024 11:44	40902	JESH_T1	2	2	0	0.25	0.2	-0.05	-0.53	-0.27	1	1	0	600	600	0
4/16/2024 11:44	66903	SHIL_T2	2	1	-1	0.3	0.2	-0.1	-0.91	-0.91	0	0	0	0	0	0
4/16/2024 11:45	44505	HAMI_T2	5	6	1	0.48	0.55	0.07	0	0	0	0	0	0	0	0
4/16/2024 11:45	45902	AUBU_T1	1	1	0	1.1	1.3	0.2	-0.57	-0.59	1	1	0	600	600	0
4/16/2024 11:45	44504	HAMI_T2	0	0	0	0	0	0	-0.97	-1.01	0	0	0	0	0	0
4/16/2024 11:45	44502	HAMI_T2	4	4	0	0.88	0.95	0.07	0	0	0	0	0	0	0	0
4/16/2024 11:45	47101	MARL_T1	0	0	0	0	0	0.01	-0.1	0	0	0	0	0	0	0
4/16/2024 11:46	44302	BEAV_T2	6	17	11	0.28	0.67	0.39	0	0	0	0	0	0	0	0
4/16/2024 11:46	12803	MICK_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/16/2024 11:46	12801	MICK_T1	0	0	0	0	0	0	0.03	0	1	1	0	600	600	0
4/16/2024 11:46	44301	BEAV_T2	1	10	9	0.9	0.47	-0.43	0.99	0.79	2	2	0	1500	1500	0
4/16/2024 11:47	64702	LITI_T2	0	0	0	0	0	0	-1.15	-1.1	0	0	0	0	0	0
4/16/2024 11:47	16402	MOPO_T1	2	7	5	0.85	0.76	-0.09	0.1	-0.03	0	0	0	0	0	0
4/16/2024 11:47	66501	MOJO_T1	0	0	0	0	0	0	-1.01	-1.03	1	1	0	900	900	0
4/16/2024 11:47	16401	MOPO_T1	2	3	1	0.65	0.67	0.02	0	0	0	0	0	0	0	0
4/16/2024 11:48	28403	HART_T2	1	1	0	0.3	0.3	0	-0.91	-0.88	1	1	0	900	900	0
4/16/2024 11:49	16402	MOPO_T1	2	7	5	0.85	0.76	-0.09	0	0	0	0	0	0	0	0
4/16/2024 11:49	64702	LITI_T2	0	0	0	0	0	0	-0.58	-0.55	0	0	0	0	0	0
4/16/2024 11:49	40902	JESH_T1	2	1	-1	0.2	0.2	0	-0.53	-0.27	1	1	0	600	600	0
4/16/2024 11:49	16401	MOPO_T1	2	3	1	0.65	0.67	0.02	0.17	0.17	0	0	0	0	0	0
4/16/2024 11:49	42201	SHEN_T2	2	2	0	0.15	0.55	0.4	0	0	1	1	0	600	600	0
4/16/2024 11:56	45902	AUBU_T1	1	1	0	1.1	1.3	0.2	-0.59	-0.65	1	1	0	600	600	0
4/16/2024 11:58	41802	GOCI_T2	1	2	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
4/16/2024 11:58	60102	COCA_T1	0	0	0	0	0	0	-0.21	0.13	1	1	0	600	600	0
4/16/2024 11:58	60101	COCA_T1	5	7	2	0.34	0.66	0.32	0	0	0	0	0	0	0	0
4/16/2024 11:58	41801	GOCI_T2	326	352	26	0.68	0.89	0.21	0	0	0	0	0	0	0	0
4/16/2024 12:00	44502	HAMI_T2	4	4	0	0.9	1.15	0.25	-0.93	-0.89	0	0	0	0	0	0
4/16/2024 12:00	44505	HAMI_T2	5	6	1	0.46	0.62	0.16	0	0	0	0	0	0	0	0
4/16/2024 12:01	41802	GOCI_T2	1	10	9	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/16/2024 12:01	42401	GIMA_T1	4	22	18	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
4/16/2024 12:01	41801	GOCI_T2	321	356	35	0.72	0.98	0.26	0	0	0	0	0	0	0	0
4/16/2024 12:01	45902	AUBU_T1	1	1	0	1	1.3	0.3	-0.59	-0.65	1	1	0	600	600	0
4/16/2024 12:02	13105	NHAM_T2	0	0	0	0	0	0	-0.73	-0.77	1	1	0	1200	1200	0
4/16/2024 12:02	42002	MNVL_T2	2	3	1	2.15	1.95	-0.2	-0.13	-0.26	0	0	0	0	0	0
4/16/2024 12:02	42001	MNVL_T2	7	9	2	0.66	0.58	-0.08	0	0	0	0	0	0	0	0
4/16/2024 12:04	42802	SELI_T1	0	0	0	0	0	0	-0.76	-0.75	1	1	0	900	900	0
4/16/2024 12:06	45902	AUBU_T1	1	1	0	1	1.3	0.3	-0.59	-0.65	1	1	0	600	600	0
4/16/2024 12:08	57403	SPAN_T1	25	166	141	0.29	0.35	0.06	-0.07	-0.06	0	0	0	0	0	0
4/16/2024 12:08	57401	SPAN_T1	2	4	2	0.4	0.48	0.08	0	0	0	0	0	0	0	0
4/16/2024 12:11	45902	AUBU_T1	1	1	0	1	1.3	0.3	-0.65	-0.43	1	1	0	600	600	0
4/16/2024 12:11	14603	SWHI_T1	9	8	-1	0.7	1.03	0.33	0	0	0	0	0	0	0	0
4/16/2024 12:11	14601	SWHI_T1	1	2	1	0.4	0.35	-0.05	-0.37	-0.37	0	0	0	0	0	0
4/16/2024 12:11	61304	EARL_T1	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
4/16/2024 12:11	61801	EELI_T2	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
4/16/2024 12:11	61803	EELI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/16/2024 12:11	61302	EARL_T1	1	3	2	0.6	0.57	-0.03	0.5	0.38	2	2	0	1800	1800	0
4/16/2024 12:11	14602	SWHI_T1	1	3	2	0.8	0.53	-0.27	0	0	0	0	0	0	0	0
4/16/2024 12:12	61304	EARL_T1	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
4/16/2024 12:12	61302	EARL_T1	1	3	2	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
4/16/2024 12:12	61303	EARL_T1	0	0	0	0	0	0	0.61	0.64	0	0	0	0	0	0
4/16/2024 12:13	61302	EARL_T1	1	3	2	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
4/16/2024 12:13	61304	EARL_T1	0	5	5	0	0.3	0.3	-0.84	-0.85	1	1	0	600	600	0
4/16/2024 12:14	41802	GOCI_T2	1	10	9	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/16/2024 12:14	41801	GOCI_T2	321	356	35	0.72	0.98	0.26	0	0	0	0	0	0	0	0
4/16/2024 12:14	53501	EVIL_T2	7	9	2	0.96	0.91	-0.05	0	0	0	0	0	0	0	0
4/16/2024 12:14	53502	EVIL_T2	0	2	2	0	0.2	0.2	0.26	0.3	1	1	0	600	600	0
4/16/2024 12:15	53501	EVIL_T2	9	9	0	0.84	0.78	-0.06	0.02	0.02	1	1	0	600	600	0
4/16/2024 12:15	41202	KENM_T2	1	2	1	0.4	0.3	-0.1	0.52	0.54	0	0	0	0	0	0
4/16/2024 12:15	51402	LYKE_T1	0	2	2	0	0.1	0.1	-1.66	-1.61	2	2	0	1200	1200	0
4/16/2024 12:15	44301	BEAV_T2	10	7	-3	0.47	0.32	-0.15	0	0	0	0	0	0	0	0
4/16/2024 12:15	41204	KENM_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/16/2024 12:15	53502	EVIL_T2	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
4/16/2024 12:15	57401	SPAN_T1	3	4	1	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
4/16/2024 12:15	57403	SPAN_T1	144	166	22	0.26	0.35	0.09	-0.07	-0.06	0	0	0	0	0	0
4/16/2024 12:15	44302	BEAV_T2	17	15	-2	0.66	0.67	0.01	0.81	0.89	0	0	0	0	0	0
4/16/2024 12:16	44302	BEAV_T2	17	15	-2	0.66	0.67	0.01	0.81	0.89	0	0	0	0	0	0
4/16/2024 12:16	44301	BEAV_T2	10	7	-3	0.47	0.32	-0.15	0	0	0	0	0	0	0	0
4/16/2024 12:18	27603	PIRI_T2	0	0	0	0	0	0	-1.47	-0.25	2	2	0	1800	1800	0
4/16/2024 12:18	26402	INOR_T1	1	2	1	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
4/16/2024 12:18	26401	INOR_T1	4	4	0	2.78	2.53	-0.25	0.36	0.3	0	0	0	0	0	0
4/16/2024 12:18	27605	PIRI_T2	0	0	0	0	0	0	-0.5	-0.49	1	1	0	900	900	0
4/16/2024 12:19	62101	ELAN_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/16/2024 12:19	62102	ELAN_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
4/16/2024 12:19	62106	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/16/2024 12:19	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 12:19	62105	ELAN_T1	12	1	-11	0.5	0.6	0.1	0.38	0.34	0	0	0	0	0	0
4/16/2024 12:20	62105	ELAN_T1	12	1	-11	0.5	0.6	0.1	0.38	0.34	0	0	0	0	0	0
4/16/2024 12:20	62101	ELAN_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/16/2024 12:20	62102	ELAN_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
4/16/2024 12:20	60301	TWVA_T2	0	0	0	0	0	0	-1.75	-1.76	1	1	0	1200	1200	0
4/16/2024 12:20	67501	WEWI_T1	8	9	1	0.71	0.69	-0.02	-0.4	-0.27	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/16/2024 12:20	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 12:20	62106	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/16/2024 12:20	67505	WEWI_T1	3	3	0	0.47	0.53	0.06	0	0	0	0	0	0	0	0
4/16/2024 12:22	40201	BEGA_T2	2	5	3	1.3	0.62	-0.68	0	0	0	0	0	0	0	0
4/16/2024 12:22	45902	AUBU_T1	1	1	0	1.3	1.2	-0.1	-0.65	-0.43	1	1	0	600	600	0
4/16/2024 12:23	57002	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 12:23	57006	WHHI_T2	1	2	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
4/16/2024 12:23	57003	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/16/2024 12:23	57004	WHHI_T2	1	1	0	0.1	0.3	0.2	-0.41	-0.46	0	0	0	0	0	0
4/16/2024 12:23	57005	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 12:24	45902	AUBU_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
4/16/2024 12:24	62105	ELAN_T1	12	1	-11	0.5	0.6	0.1	0.34	0.36	0	0	0	0	0	0
4/16/2024 12:24	62102	ELAN_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
4/16/2024 12:24	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 12:24	45901	AUBU_T1	0	0	0	0	0	0	2.33	2.35	0	0	0	0	0	0
4/16/2024 12:24	62101	ELAN_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/16/2024 12:24	62106	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/16/2024 12:24	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 12:25	57005	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 12:25	57002	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 12:25	57006	WHHI_T2	1	2	1	0.5	0.55	0.05	1.32	1.31	2	2	0	1200	1200	0
4/16/2024 12:25	57004	WHHI_T2	1	1	0	0.1	0.3	0.2	-0.41	-0.46	0	0	0	0	0	0
4/16/2024 12:25	57003	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/16/2024 12:26	62602	ENGL_T1	1	1	0	0.4	0.4	0	0.06	0.05	0	0	0	0	0	0
4/16/2024 12:26	17401	FOHI_T1	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
4/16/2024 12:26	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 12:26	21206	ECAR_T2	2	3	1	4.35	4.3	-0.05	1.53	1.6	0	0	0	0	0	0
4/16/2024 12:26	62607	ENGL_T1	4	6	2	0.3	0.32	0.02	0	0	0	0	0	0	0	0
4/16/2024 12:26	62605	ENGL_T1	2	3	1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
4/16/2024 12:27	62101	ELAN_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/16/2024 12:27	62102	ELAN_T1	2	0	-2	0.25	0	-0.25	0.51	0.63	0	0	0	0	0	0
4/16/2024 12:27	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 12:27	62106	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/16/2024 12:27	45902	AUBU_T1	1	1	0	1.3	1.2	-0.1	-0.43	-0.58	1	1	0	600	600	0
4/16/2024 12:27	40201	BEGA_T2	2	5	3	1.3	0.62	-0.68	0	0	0	0	0	0	0	0
4/16/2024 12:27	57401	SPAN_T1	3	4	1	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
4/16/2024 12:27	57403	SPAN_T1	144	166	22	0.26	0.35	0.09	-0.06	-0.06	0	0	0	0	0	0
4/16/2024 12:27	62105	ELAN_T1	12	1	-11	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/16/2024 12:28	62602	ENGL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/16/2024 12:28	41802	GOCI_T2	2	10	8	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/16/2024 12:28	57403	SPAN_T1	144	166	22	0.26	0.35	0.09	-0.06	-0.06	0	0	0	0	0	0
4/16/2024 12:28	62606	ENGL_T1	0	0	0	0	0	0	-0.76	-0.62	1	1	0	900	900	0
4/16/2024 12:28	62605	ENGL_T1	2	3	1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
4/16/2024 12:28	41801	GOCI_T2	352	354	2	0.88	0.96	0.08	0	0	0	0	0	0	0	0
4/16/2024 12:28	62607	ENGL_T1	4	6	2	0.3	0.32	0.02	0	0	0	0	0	0	0	0
4/16/2024 12:28	57401	SPAN_T1	3	4	1	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
4/16/2024 12:30	41802	GOCI_T2	10	2	-8	0.2	0.75	0.55	0	0	0	0	0	0	0	0
4/16/2024 12:30	41801	GOCI_T2	352	328	-24	0.95	0.79	-0.16	0	0	0	0	0	0	0	0
4/16/2024 12:33	65302	NBRI_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/16/2024 12:33	65303	NBRI_T2	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
4/16/2024 12:35	13606	RICH_T2	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
4/16/2024 12:35	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 12:35	65205	PRIN_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
4/16/2024 12:35	16505	STRO_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
4/16/2024 12:35	66503	SMAN_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
4/16/2024 12:35	66504	SMAN_T2	4	2	-2	0.63	0.7	0.07	-0.69	-0.58	0	0	0	0	0	0
4/16/2024 12:35	66505	SMAN_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/16/2024 12:35	66501	SMAN_T2	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
4/16/2024 12:35	57301	MOAL_T2	0	0	0	0	0	0	0.43	0.36	0	0	0	0	0	0
4/16/2024 12:35	57303	MOAL_T2	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
4/16/2024 12:35	57306	MOAL_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
4/16/2024 12:35	57304	MOAL_T2	75	67	-8	0.79	0.73	-0.06	0	0	0	0	0	0	0	0
4/16/2024 12:35	44201	POIN_T1	44	1	-43	0.21	0.4	0.19	-1.9	-1.17	2	2	0	2100	2100	0
4/16/2024 12:35	11205	ELHE_T1	0	0	0	0	0	0	-0.69	-0.58	1	1	0	1200	1200	0
4/16/2024 12:35	13601	RICH_T2	1	1	0	0.6	0.4	-0.2	0	0.01	1	1	0	600	600	0
4/16/2024 12:35	66502	SMAN_T2	14	6	-8	0.38	0.43	0.05	0	0	0	0	0	0	0	0
4/16/2024 12:36	44201	POIN_T1	44	1	-43	0.21	0.4	0.19	-1.9	-1.17	2	2	0	2100	2100	0
4/16/2024 12:36	66701	STRA_T1	3	3	0	1	0.93	-0.07	-0.29	-0.26	1	1	0	600	600	0
4/16/2024 12:36	45403	WBLO_T1	0	0	0	0	0	0	-0.7	-0.82	3	3	0	3600	3600	0
4/16/2024 12:36	57303	MOAL_T2	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
4/16/2024 12:36	57304	MOAL_T2	75	67	-8	0.79	0.73	-0.06	-0.56	-0.57	0	0	0	0	0	0
4/16/2024 12:36	57306	MOAL_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
4/16/2024 12:38	45902	AUBU_T1	1	1	0	1.2	1	-0.2	-0.58	-0.48	1	1	0	600	600	0
4/16/2024 12:38	64305	LINC_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/16/2024 12:38	64303	LINC_T1	0	0	0	0	0	0	-0.08	-0.18	0	0	0	0	0	0
4/16/2024 12:39	66701	STRA_T1	3	3	0	1	0.93	-0.07	-0.26	-0.28	1	1	0	600	600	0
4/16/2024 12:41	62602	ENGL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/16/2024 12:41	62605	ENGL_T1	3	3	0	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
4/16/2024 12:41	62607	ENGL_T1	6	3	-3	0.32	0.43	0.11	-1.1	-1.11	1	1	0	300	300	0
4/16/2024 12:42	41602	CLEV_T1	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
4/16/2024 12:42	41601	CLEV_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
4/16/2024 12:43	41602	CLEV_T1	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
4/16/2024 12:43	41601	CLEV_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
4/16/2024 12:43	45902	AUBU_T1	1	1	0	1.2	1	-0.2	-0.58	-0.48	1	1	0	600	600	0
4/16/2024 12:44	11507	FREE_T2	0	0	0	0	0	0	1.1	0.93	0	0	0	0	0	0
4/16/2024 12:44	64204	KINZ_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
4/16/2024 12:44	64203	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 12:44	64202	KINZ_T1	3	3	0	0.8	0.73	-0.07	0.63	0.68	0	0	0	0	0	0
4/16/2024 12:45	62607	ENGL_T1	3	2	-1	0.43	0.4	-0.03	-1.1	-1.11	1	1	0	300	300	0
4/16/2024 12:45	59302	MCAL_T1	0	0	0	0	0	0	-0.12	-0.13	1	1	0	600	600	0
4/16/2024 12:45	59301	MCAL_T1	6	2	-4	0.33	0.45	0.12	0	0	0	0	0	0	0	0
4/16/2024 12:45	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 12:45	62605	ENGL_T1	3	2	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/16/2024 12:45	62602	ENGL_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/16/2024 12:46	45801	HEGI_T1	0	0	0	0	0	0	0.01	0.02	1	1	0	900	900	0
4/16/2024 12:50	65702	RVIL_T2	24	19	-5	0.47	0.42	-0.05	-2.59	-2.47	3	3	0	1800	1800	0
4/16/2024 12:51	65702	RVIL_T2	24	19	-5	0.47	0.42	-0.05	-0.86	-0.82	1	1	0	600	600	0
4/16/2024 12:51	65701	RVIL_T1	4	3	-1	0.78	0.8	0.02	0	0	0	0	0	0	0	0
4/16/2024 12:51	65703	RVIL_T1	1	1	0	1.1	1.1	0	-0.19	-0.18	0	0	0	0	0	0
4/16/2024 12:53	45902	AUBU_T1	1	1	0	1	0.8	-0.2	-0.48	-0.53	1	1	0	600	600	0
4/16/2024 12:54	66701	STRA_T1	3	3	0	0.93	0.8	-0.13	-0.28	-0.24	1	1	0	600	600	0
4/16/2024 12:56	45801	HEGI_T1	0	0	0	0	0	0	0.02	0.04	1	1	0	900	900	0
4/16/2024 12:57	20401	ASHF_T2	6	8	2	0.23	0.19	-0.04	-0.32	-0.22	0	0	0	0	0	0
4/16/2024 12:57	20402	ASHF_T2	5	5	0	0.42	0.44	0.02	0	0	0	0	0	0	0	0
4/16/2024 12:57	20403	ASHF_T2	10	31	21	0.91	0.52	-0.39	0	0	0	0	0	0	0	0
4/16/2024 12:58	12003	HATF_T1	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/16/2024 12:58	12001	HATF_T1	2	3	1	0.3	0.2	-0.1	-0.93	-0.96	2	2	0	1800	1800	0
4/16/2024 12:58	12007	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 12:58	12002	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 12:59	53902	HALI_T2	6	5	-1	1.62	1.72	0.1	0	0	0	0	0	0	0	0
4/16/2024 12:59	45902	AUBU_T1	1	1	0	1	0.8	-0.2	-0.48	-0.53	1	1	0	600	600	0
4/16/2024 12:59	53901	HALI_T2	3	3	0	0.7	0.57	-0.13	-0.4	-0.42	0	0	0	0	0	0
4/16/2024 12:59	53903	HALI_T2	14	12	-2	0.81	0.78	-0.03	0	0	0	0	0	0	0	0
4/16/2024 13:00	64202	KINZ_T1	3	3	0	0.43	0.7	0.27	0	0	0	0	0	0	0	0
4/16/2024 13:00	12001	HATF_T1	3	3	0	0.13	0.33	0.2	-0.93	-0.96	2	2	0	1800	1800	0
4/16/2024 13:00	13503	MCMI_T2	14	10	-4	0.6	0.54	-0.06	-0.01	-0.01	0	0	0	0	0	0
4/16/2024 13:00	64201	KINZ_T1	0	0	0	0	0	0	-0.05	-0.14	3	3	0	1500	1500	0
4/16/2024 13:00	12003	HATF_T1	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/16/2024 13:00	64204	KINZ_T1	1	1	0	0.6	1.3	0.7	0	0	0	0	0	0	0	0
4/16/2024 13:01	41204	KENM_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
4/16/2024 13:01	41202	KENM_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/16/2024 13:02	12606	MACA_T1	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0	0
4/16/2024 13:02	12601	MACA_T1	2	2	0	1.8	1.75	-0.05	0	0	0	0	0	0	0	0
4/16/2024 13:02	42001	MNVL_T2	6	6	0	0.48	0.57	0.09	-0.03	-0.03	0	0	0	0	0	0
4/16/2024 13:02	12602	MACA_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/16/2024 13:02	42002	MNVL_T2	1	1	0	4.5	4.7	0.2	0	0	0	0	0	0	0	0
4/16/2024 13:02	12605	MACA_T1	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
4/16/2024 13:02	12604	MACA_T1	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
4/16/2024 13:03	12602	MACA_T1	1	1	0	0.4	0.8	0.4	-1.04	-1.07	0	0	0	0	0	0
4/16/2024 13:03	12605	MACA_T1	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
4/16/2024 13:03	12604	MACA_T1	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
4/16/2024 13:03	12601	MACA_T1	2	2	0	1.8	1.75	-0.05	0	0	0	0	0	0	0	0
4/16/2024 13:04	57303	MOAL_T2	1	1	0	6.9	7.2	0.3	0	0	0	0	0	0	0	0
4/16/2024 13:04	13503	MCMI_T2	14	10	-4	0.6	0.54	-0.06	-0.01	-0.01	0	0	0	0	0	0
4/16/2024 13:04	57304	MOAL_T2	63	501	438	0.61	0.24	-0.37	0	0	0	0	0	0	0	0
4/16/2024 13:04	57306	MOAL_T2	2	2	0	0.4	0.25	-0.15	-1.91	-1.93	0	0	0	0	0	0
4/16/2024 13:07	11803	FRAN_T2	1	2	1	1.8	1	-0.8	0	0	0	0	0	0	0	0
4/16/2024 13:07	11801	FRAN_T2	1	2	1	0.5	0.3	-0.2	0.2	0.24	0	0	0	0	0	0
4/16/2024 13:08	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 13:09	45902	AUBU_T1	1	1	0	0.8	1	0.2	-0.53	-0.67	1	1	0	600	600	0
4/16/2024 13:09	60101	COCA_T1	8	8	0	0.56	0.65	0.09	0.23	0.27	0	0	0	0	0	0
4/16/2024 13:10	41602	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/16/2024 13:10	41601	CLEV_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/16/2024 13:10	66701	STRA_T1	2	3	1	1.1	0.7	-0.4	-0.24	-0.24	1	1	0	600	600	0
4/16/2024 13:11	67501	WEWI_T1	5	6	1	0.9	0.63	-0.27	0	0	0	0	0	0	0	0
4/16/2024 13:11	67505	WEWI_T1	2	2	0	0.7	0.65	-0.05	-0.1	-0.17	1	1	0	900	900	0
4/16/2024 13:12	45501	DERR_T2	1	1	0	0.9	0.9	0	1.94	1.8	4	4	0	3600	3600	0
4/16/2024 13:12	60101	COCA_T1	8	8	0	0.56	0.65	0.09	0.23	0.27	0	0	0	0	0	0
4/16/2024 13:14	42903	MIDD_T2	0	2	2	0	0.1	0.1	1.87	1.7	0	0	0	0	0	0
4/16/2024 13:14	42902	MIDD_T2	2	5	3	0.85	0.66	-0.19	0	0	0	0	0	0	0	0
4/16/2024 13:14	13503	MCMI_T2	14	10	-4	0.6	0.54	-0.06	-0.01	-0.01	0	0	0	0	0	0
4/16/2024 13:14	45902	AUBU_T1	1	1	0	0.8	1	0.2	-0.53	-0.67	1	1	0	600	600	0
4/16/2024 13:15	11507	FREE_T2	0	0	0	0	0	0	0.91	0.84	0	0	0	0	0	0
4/16/2024 13:25	45902	AUBU_T1	1	1	0	0.8	1.2	0.4	-0.67	-0.74	1	1	0	600	600	0
4/16/2024 13:26	66701	STRA_T1	3	3	0	0.7	0.7	0	-0.24	-0.23	1	1	0	600	600	0
4/16/2024 13:30	53901	HALI_T2	3	5	2	0.4	0.8	0.4	-0.44	-0.42	0	0	0	0	0	0
4/16/2024 13:30	53903	HALI_T2	12	13	1	0.88	0.85	-0.03	0	0	0	0	0	0	0	0
4/16/2024 13:30	53902	HALI_T2	4	5	1	2.05	1.72	-0.33	0	0	0	0	0	0	0	0
4/16/2024 13:30	45902	AUBU_T1	1	3	2	1	0.83	-0.17	-0.67	-0.74	1	1	0	600	600	0
4/16/2024 13:32	29503	LEDG_T1	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/16/2024 13:32	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 13:33	60501	NMAN_T2	6	6	0	2.8	2.95	0.15	0	0	0	0	0	0	0	0
4/16/2024 13:33	60504	NMAN_T2	3	3	0	1.03	1.23	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/16/2024 13:33	60502	NMAN_T2	2	4	2	0.2	0.53	0.33	-0.14	-0.2	0	0	0	0	0	0
4/16/2024 13:34	60502	NMAN_T2	2	4	2	0.2	0.53	0.33	-0.14	-0.2	0	0	0	0	0	0
4/16/2024 13:34	60504	NMAN_T2	3	3	0	1.03	1.23	0.2	0	0	0	0	0	0	0	0
4/16/2024 13:34	60501	NMAN_T2	6	6	0	2.8	2.95	0.15	0	0	0	0	0	0	0	0
4/16/2024 13:37	67701	WERN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/16/2024 13:37	67702	WERN_T2	1	1	0	1	1	0	-0.02	-0.02	0	0	0	0	0	0
4/16/2024 13:37	67703	WERN_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/16/2024 13:37	55102	WERT_T2	0	0	0	0	0	0	-0.21	-0.15	2	2	0	1200	1200	0
4/16/2024 13:38	55102	WERT_T2	0	0	0	0	0	0	-0.15	-0.19	2	2	0	1200	1200	0
4/16/2024 13:38	11801	FRAN_T2	2	1	-1	0.3	0.5	0.2	0.31	0.27	0	0	0	0	0	0
4/16/2024 13:38	11803	FRAN_T2	2	2	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
4/16/2024 13:39	67702	WERN_T2	1	1	0	1	1	0	-0.01	-0.01	0	0	0	0	0	0
4/16/2024 13:39	67701	WERN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/16/2024 13:39	67703	WERN_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/16/2024 13:40	41601	CLEV_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/16/2024 13:40	59101	WALK_T2	1	1	0	0.4	1	0.6	2.33	1.75	1	1	0	600	600	0
4/16/2024 13:40	41602	CLEV_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/16/2024 13:41	41601	CLEV_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/16/2024 13:41	45902	AUBU_T1	1	3	2	1	0.83	-0.17	-0.74	-0.89	1	1	0	600	600	0
4/16/2024 13:41	41602	CLEV_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/16/2024 13:42	67701	WERN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/16/2024 13:42	67703	WERN_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/16/2024 13:42	41602	CLEV_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/16/2024 13:42	41601	CLEV_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/16/2024 13:42	67702	WERN_T2	1	1	0	1	1	0	-0.01	-0.01	0	0	0	0	0	0
4/16/2024 13:43	24102	EHAZ_T1	0	2	2	0	0.5	0.5	0.16	0.14	0	0	0	0	0	0
4/16/2024 13:43	42902	MIDD_T2	5	5	0	0.66	0.78	0.12	0	0	0	0	0	0	0	0
4/16/2024 13:43	42903	MIDD_T2	2	2	0	0.1	0.15	0.05	1.79	1.82	0	0	0	0	0	0
4/16/2024 13:43	24105	EHAZ_T1	4	4	0	6.33	6.4	0.07	0	0	0	0	0	0	0	0
4/16/2024 13:43	24101	EHAZ_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/16/2024 13:44	21206	ECAR_T2	2	2	0	4.05	3.95	-0.1	1.69	1.68	0	0	0	0	0	0
4/16/2024 13:44	41502	FAIR_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
4/16/2024 13:44	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 13:46	47001	HUGH_T2	1	1	0	0.3	0.4	0.1	-0.29	-0.21	0	0	0	0	0	0
4/16/2024 13:46	45902	AUBU_T1	1	3	2	1.2	0.83	-0.37	-0.74	-0.89	1	1	0	600	600	0
4/16/2024 13:46	47002	HUGH_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/16/2024 13:46	13503	MCMI_T2	9	7	-2	0.52	0.43	-0.09	-0.01	-0.01	0	0	0	0	0	0
4/16/2024 13:48	67002	STHI_T2	15	19	4	0.39	0.35	-0.04	0.74	0.72	0	0	0	0	0	0
4/16/2024 13:48	67001	STHI_T2	6	6	0	0.4	0.47	0.07	0	0	0	0	0	0	0	0
4/16/2024 13:48	60502	NMAN_T2	3	4	1	0.37	0.38	0.01	-0.2	-0.01	0	0	0	0	0	0
4/16/2024 13:48	60501	NMAN_T2	6	6	0	2.93	2.97	0.04	0	0	0	0	0	0	0	0
4/16/2024 13:48	60504	NMAN_T2	3	3	0	1.23	1.23	0	0	0	0	0	0	0	0	0
4/16/2024 13:49	67001	STHI_T2	6	6	0	0.4	0.47	0.07	0	0	0	0	0	0	0	0
4/16/2024 13:49	67002	STHI_T2	15	19	4	0.39	0.35	-0.04	0.74	0.72	0	0	0	0	0	0
4/16/2024 13:49	44601	SALE_T2	0	1	1	0	0.2	0.2	0.19	0.14	1	1	0	600	600	0
4/16/2024 13:50	67002	STHI_T2	15	19	4	0.39	0.35	-0.04	0.74	0.72	0	0	0	0	0	0
4/16/2024 13:50	67001	STHI_T2	6	6	0	0.4	0.47	0.07	0	0	0	0	0	0	0	0
4/16/2024 13:50	67401	WAKE_T2	0	0	0	0	0	0	-1.05	-1.13	0	0	0	0	0	0
4/16/2024 13:50	67402	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 13:51	66502	SMAN_T2	12	16	4	0.36	0.43	0.07	0	0	0	0	0	0	0	0
4/16/2024 13:51	66505	SMAN_T2	1	1	0	0.8	0.4	-0.4	0.45	0.58	2	2	0	1100	1100	0
4/16/2024 13:51	67001	STHI_T2	6	6	0	0.4	0.47	0.07	0	0	0	0	0	0	0	0
4/16/2024 13:51	66504	SMAN_T2	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/16/2024 13:51	67002	STHI_T2	15	19	4	0.39	0.35	-0.04	1.48	1.45	0	0	0	0	0	0
4/16/2024 13:51	66501	SMAN_T2	2	2	0	0.75	1.15	0.4	0	0	0	0	0	0	0	0
4/16/2024 13:51	66503	SMAN_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/16/2024 13:53	67002	STHI_T2	15	19	4	0.39	0.35	-0.04	2.17	2.23	0	0	0	0	0	0
4/16/2024 13:53	20401	ASHF_T2	4	1	-3	0.23	0.4	0.17	0	0	0	0	0	0	0	0
4/16/2024 13:53	20402	ASHF_T2	6	7	1	0.45	0.51	0.06	0	0	0	0	0	0	0	0
4/16/2024 13:53	20403	ASHF_T2	91	17	-74	0.34	0.56	0.22	0.38	0.12	0	0	0	0	0	0
4/16/2024 13:53	67001	STHI_T2	6	6	0	0.4	0.47	0.07	0	0	0	0	0	0	0	0
4/16/2024 13:54	67002	STHI_T2	15	19	4	0.39	0.35	-0.04	0.72	0.74	0	0	0	0	0	0
4/16/2024 13:54	67001	STHI_T2	6	6	0	0.4	0.47	0.07	0	0	0	0	0	0	0	0
4/16/2024 13:56	67502	WEWI_T2	9	10	1	0.47	0.46	-0.01	-0.15	-0.19	0	0	0	0	0	0
4/16/2024 13:57	45902	AUBU_T1	1	3	2	1.2	0.83	-0.37	-0.89	-0.85	1	1	0	600	600	0
4/16/2024 13:59	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 13:59	67505	WEWI_T1	2	4	2	0.65	0.63	-0.02	-0.03	-0.12	1	1	0	900	900	0
4/16/2024 13:59	21206	ECAR_T2	2	2	0	3.95	4	0.05	1.68	1.62	0	0	0	0	0	0
4/16/2024 13:59	67501	WEWI_T1	3	5	2	0.73	0.74	0.01	0	0	0	0	0	0	0	0
4/16/2024 13:59	45802	HEGI_T2	34	22	-12	0.56	0.57	0.01	1.43	1.14	0	0	0	0	0	0
4/16/2024 14:01	45802	HEGI_T2	0	37	37	0	0.76	0.76	1.43	1.14	0	0	0	0	0	0
4/16/2024 14:02	45902	AUBU_T1	3	3	0	0.83	0.8	-0.03	-0.89	-0.85	1	1	0	600	600	0
4/16/2024 14:04	16201	POFA_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
4/16/2024 14:04	16203	POFA_T2	6	11	5	0.37	0.47	0.1	0	0	0	0	0	0	0	0
4/16/2024 14:05	43302	WATS_T2	4	4	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/16/2024 14:05	43301	WATS_T2	6	6	0	0.4	0.27	-0.13	-0.72	-0.7	1	1	0	900	900	0
4/16/2024 14:07	45902	AUBU_T1	3	3	0	0.83	0.8	-0.03	-0.89	-0.85	1	1	0	600	600	0
4/16/2024 14:07	67402	WAKE_T2	0	1	1	0	0.2	0.2	0.51	0.5	1	1	0	600	600	0
4/16/2024 14:09	43302	WATS_T2	4	4	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/16/2024 14:09	60904	DONG_T2	5	6	1	0.28	0.28	0	0	0	0	0	0	0	0	0
4/16/2024 14:09	60903	DONG_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/16/2024 14:09	43301	WATS_T2	6	6	0	0.4	0.27	-0.13	-2.1	-2.17	3	3	0	2700	2700	0
4/16/2024 14:09	60902	DONG_T2	1	1	0	0.3	0.2	-0.1	0.96	0.94	0	0	0	0	0	0
4/16/2024 14:09	60901	DONG_T2	10	7	-3	0.48	0.66	0.18	0	0	0	0	0	0	0	0
4/16/2024 14:10	43302	WATS_T2	4	4	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/16/2024 14:10	43301	WATS_T2	6	6	0	0.4	0.27	-0.13	-0.7	-0.72	1	1	0	900	900	0
4/16/2024 14:11	23901	EFMO_T2	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/16/2024 14:11	23902	EFMO_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/16/2024 14:12	60903	DONG_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/16/2024 14:12	60902	DONG_T2	1	1	0	0.3	0.2	-0.1	0.96	0.94	0	0	0	0	0	0
4/16/2024 14:12	60904	DONG_T2	5	6	1	0.28	0.28	0	0	0	0	0	0	0	0	0
4/16/2024 14:12	60901	DONG_T2	10	7	-3	0.48	0.66	0.18	0	0	0	0	0	0	0	0
4/16/2024 14:12	45902	AUBU_T1	3	3	0	0.83	0.8	-0.03	-0.85	-0.63	1	1	0	600	600	0
4/16/2024 14:12	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
4/16/2024 14:16	20603	GRWO_T2	4	5	1	0.28	0.5	0.22	0.42	0.4	0	0	0	0	0	0
4/16/2024 14:17	13503	MCMI_T2	4	9	5	0.5	0.51	0.01	-0.01	-0.01	0	0	0	0	0	0
4/16/2024 14:18	13503	MCMI_T2	4	9	5	0.5	0.51	0.01	-0.01	-0.01	0	0	0	0	0	0
4/16/2024 14:20	67002	STHI_T2	18	19	1	0.35	0.35	0	0.74	0.7	0	0	0	0	0	0
4/16/2024 14:20	67001	STHI_T2	6	6	0	0.47	0.5	0.03	0	0	0	0	0	0	0	0
4/16/2024 14:22	54601	SUMM_T2	1	1	0	0.4	0.4	0	-1.74	-1.76	2	2	0	2100	2100	0
4/16/2024 14:23	45902	AUBU_T1	3	2	-1	0.8	0.75	-0.05	-0.63	-0.73	1	1	0	600	600	0
4/16/2024 14:23	66502	SMAN_T2	5	11	6	0.72	0.45	-0.27	0	0	0	0	0	0	0	0
4/16/2024 14:23	66503	SMAN_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/16/2024 14:23	41602	CLEV_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/16/2024 14:23	66501	SMAN_T2	2	2	0	0.45	1.1	0.65	0	0	0	0	0	0	0	0
4/16/2024 14:23	41601	CLEV_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/16/2024 14:23	66504	SMAN_T2	2	2	0	0.65	0.8	0.15	-0.18	-0.29	0	0	0	0	0	0
4/16/2024 14:24	45902	AUBU_T1	3	2	-1	0.8	0.75	-0.05	-0.63	-0.73	1	1	0	600	600	0
4/16/2024 14:24	26002	WDAM_T1	3	1	-2	0.73	1.1	0.37	0	0	0	0	0	0	0	0
4/16/2024 14:24	26001	WDAM_T1	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
4/16/2024 14:25	54601	SUMM_T2	1	1	0	0.4	0.4	0	-1.76	-1.78	2	2	0	2100	2100	0
4/16/2024 14:25	61702	ELIZ_T2	3	2	-1	0.5	0.55	0.05	-2	-2.01	2	2	0	1500	1500	0
4/16/2024 14:26	48302	ORWI_T2	2	2	0	1.4	1.7	0.3	0	0	0	0	0	0	0	0
4/16/2024 14:26	48303	ORWI_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/16/2024 14:26	54601	SUMM_T2	1	1	0	0.4	0.4	0	-3.53	-3.55	4	4	0	4200	4200	0
4/16/2024 14:27	54601	SUMM_T2	1	1	0	0.4	0.4	0	-1.76	-1.78	2	2	0	2100	2100	0
4/16/2024 14:27	45902	AUBU_T1	3	2	-1	0.8	0.75	-0.05	-0.63	-0.73	1	1	0	600	600	0
4/16/2024 14:28	45802	HEGI_T2	22	37	15	0.57	0.76	0.19	1.17	1.13	0	0	0	0	0	0
4/16/2024 14:28	45902	AUBU_T1	3	2	-1	0.8	0.75	-0.05	0.63	0.73	1	1	0	600	600	0
4/16/2024 14:29	24702	FLND_T2	2	2	0	0.65	1.25	0.6	1.37	1.4	0	0	0	0	0	0
4/16/2024 14:31	45802	HEGI_T2	37	37	0	0.76	0.77	0.01	1.17	1.13	0	0	0	0	0	0
4/16/2024 14:39	46005	BERW_T1	6	7	1	0.43	0.5	0.07	0	0	0	0	0	0	0	0
4/16/2024 14:39	46001	BERW_T1	0	0	0	0	0	0	-0.08	1.28	0	0	0	0	0	0
4/16/2024 14:39	45902	AUBU_T1	2	2	0	0.75	0.7	-0.05	-0.73	-0.75	1	1	0	600	600	0
4/16/2024 14:41	46004	BERW_T2	6	8	2	0.43	0.49	0.06	-0.07	-0.17	0	0	0	0	0	0
4/16/2024 14:41	46003	BERW_T2	1	19	18	0.4	0.26	-0.14	0	0	0	0	0	0	0	0
4/16/2024 14:41	60101	COCA_T1	10	8	-2	0.61	0.6	-0.01	0.25	0.24	0	0	0	0	0	0
4/16/2024 14:41	46002	BERW_T2	2	4	2	0.1	0.25	0.15	0	0	0	0	0	0	0	0
4/16/2024 14:41	46005	BERW_T1	6	7	1	0.43	0.5	0.07	0	0	0	0	0	0	0	0
4/16/2024 14:41	60102	COCA_T1	0	0	0	0	0	0	-0.05	-0.06	1	1	0	600	600	0
4/16/2024 14:41	46001	BERW_T1	0	0	0	0	0	0	-0.08	1.28	0	0	0	0	0	0
4/16/2024 14:43	60101	COCA_T1	10	8	-2	0.61	0.6	-0.01	0.25	0.24	0	0	0	0	0	0
4/16/2024 14:43	41602	CLEV_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/16/2024 14:43	41601	CLEV_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/16/2024 14:44	45902	AUBU_T1	2	2	0	0.75	0.7	-0.05	-0.73	-0.75	1	1	0	600	600	0
4/16/2024 14:44	41801	GOCI_T2	273	350	77	0.57	0.72	0.15	0	0	0	0	0	0	0	0
4/16/2024 14:44	41802	GOCI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/16/2024 14:45	67001	STHI_T2	5	5	0	0.52	0.42	-0.1	0	0	0	0	0	0	0	0
4/16/2024 14:45	67002	STHI_T2	16	11	-5	0.35	0.35	0	0.72	0.71	0	0	0	0	0	0
4/16/2024 14:46	41802	GOCI_T2	1	16	15	0.3	0.16	-0.14	0	0	0	0	0	0	0	0
4/16/2024 14:46	22404	MORG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 14:46	22401	MORG_T2	3	3	0	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
4/16/2024 14:46	22405	MORG_T2	2	2	0	0.25	0.15	-0.1	-0.2	-0.17	0	0	0	0	0	0
4/16/2024 14:46	41801	GOCI_T2	331	356	25	0.63	1.22	0.59	0	0	0	0	0	0	0	0
4/16/2024 14:49	22401	MORG_T2	3	3	0	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
4/16/2024 14:49	22405	MORG_T2	2	2	0	0.25	0.15	-0.1	-0.2	-0.17	0	0	0	0	0	0
4/16/2024 14:49	22404	MORG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 14:50	42802	SELI_T1	0	0	0	0	0	0	-0.75	-0.73	1	1	0	900	900	0
4/16/2024 14:51	22401	MORG_T2	3	3	0	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
4/16/2024 14:51	22404	MORG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 14:51	22405	MORG_T2	2	2	0	0.25	0.15	-0.1	-0.2	-0.17	0	0	0	0	0	0
4/16/2024 14:52	42802	SELI_T1	0	0	0	0	0	0	-0.75	-0.73	1	1	0	900	900	0
4/16/2024 14:54	45902	AUBU_T1	2	1	-1	0.7	1	0.3	-0.75	-0.77	1	1	0	600	600	0
4/16/2024 14:57	45902	AUBU_T1	2	1	-1	0.7	1	0.3	-0.75	-0.77	1	1	0	600	600	0
4/16/2024 15:00	64202	KINZ_T1	0	0	0	0	0	0	0.91	0.92	0	0	0	0	0	0
4/16/2024 15:00	41802	GOCI_T2	1	16	15	0.3	0.16	-0.14	0	0	0	0	0	0	0	0
4/16/2024 15:00	64204	KINZ_T1	2	2	0	0.5	1	0.5	0	0	0	0	0	0	0	0
4/16/2024 15:00	41801	GOCI_T2	343	355	12	0.7	1.23	0.53	0	0	0	0	0	0	0	0
4/16/2024 15:01	23203	HIRU_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/16/2024 15:01	23202	HIRU_T2	1	1	0	0.1	0.1	0	0.08	0.08	0	0	0	0	0	0
4/16/2024 15:02	41801	GOCI_T2	343	355	12	0.7	1.23	0.53	0	0	0	0	0	0	0	0
4/16/2024 15:02	41802	GOCI_T2	1	16	15	0.3	0.16	-0.14	0	0	0	0	0	0	0	0
4/16/2024 15:05	58402	MORO_T1	0	0	0	0	0	0	-0.14	-0.05	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/16/2024 15:08	45902	AUBU_T1	1	3	2	1	0.63	-0.37	-0.77	-0.75	1	1	0	600	600	0
4/16/2024 15:10	54601	SUMM_T2	1	1	0	0.3	0.2	-0.1	-1.81	-1.78	2	2	0	2100	2100	0
4/16/2024 15:12	20603	GRWO_T2	5	7	2	0.56	0.47	-0.09	0.42	0.41	0	0	0	0	0	0
4/16/2024 15:13	45902	AUBU_T1	1	3	2	1	0.63	-0.37	-0.77	-0.75	1	1	0	600	600	0
4/16/2024 15:14	45801	HEGI_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	900	900	0
4/16/2024 15:19	40902	JESH_T1	2	2	0	0.2	0.4	0.2	-0.49	-0.47	1	1	0	600	600	0
4/16/2024 15:19	40901	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 15:21	67001	STHI_T2	5	5	0	0.38	0.34	-0.04	0	0	0	0	0	0	0	0
4/16/2024 15:21	67002	STHI_T2	7	7	0	0.41	0.39	-0.02	0.73	0.73	0	0	0	0	0	0
4/16/2024 15:22	40901	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 15:22	40902	JESH_T1	2	2	0	0.2	0.4	0.2	-0.49	-0.47	1	1	0	600	600	0
4/16/2024 15:24	45902	AUBU_T1	1	3	2	1	0.63	-0.37	-0.75	-0.7	1	1	0	600	600	0
4/16/2024 15:27	50506	MECH_T1	3	3	0	0.37	0.17	-0.2	0	0	0	0	0	0	0	0
4/16/2024 15:27	50502	MECH_T1	1	1	0	2.3	2.2	-0.1	0	0	0	0	0	0	0	0
4/16/2024 15:27	50503	MECH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/16/2024 15:27	50501	MECH_T1	4	4	0	0.55	0.5	-0.05	0.83	0.66	0	0	0	0	0	0
4/16/2024 15:27	66701	STRA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 15:27	66703	STRA_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
4/16/2024 15:29	45902	AUBU_T1	1	3	2	1	0.63	-0.37	-0.75	-0.7	1	1	0	600	600	0
4/16/2024 15:33	40901	JESH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 15:33	40902	JESH_T1	2	1	-1	0.4	0.4	0	-0.47	-0.42	1	1	0	600	600	0
4/16/2024 15:34	57303	MOAL_T2	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
4/16/2024 15:34	57304	MOAL_T2	42	13	-29	0.28	0.21	-0.07	-0.5	-0.46	0	0	0	0	0	0
4/16/2024 15:35	67505	WEWI_T1	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/16/2024 15:35	67501	WEWI_T1	2	2	0	0.65	0.7	0.05	-0.33	-0.28	0	0	0	0	0	0
4/16/2024 15:36	67001	STHI_T2	5	4	-1	0.34	0.38	0.04	0.13	0.11	0	0	0	0	0	0
4/16/2024 15:36	67002	STHI_T2	7	7	0	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
4/16/2024 15:37	66703	STRA_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
4/16/2024 15:37	66701	STRA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/16/2024 15:37	57303	MOAL_T2	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
4/16/2024 15:37	57304	MOAL_T2	42	13	-29	0.28	0.21	-0.07	-0.5	-0.46	0	0	0	0	0	0
4/16/2024 15:38	40901	JESH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 15:38	40902	JESH_T1	2	1	-1	0.4	0.4	0	-0.47	-0.42	1	1	0	600	600	0
4/16/2024 15:38	67002	STHI_T2	7	7	0	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
4/16/2024 15:38	67001	STHI_T2	5	4	-1	0.34	0.38	0.04	0.11	0.14	0	0	0	0	0	0
4/16/2024 15:39	67001	STHI_T2	5	4	-1	0.34	0.38	0.04	0.11	0.14	0	0	0	0	0	0
4/16/2024 15:39	67002	STHI_T2	7	7	0	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
4/16/2024 15:39	45902	AUBU_T1	3	1	-2	0.63	1	0.37	-0.7	-0.78	1	1	0	600	600	0
4/16/2024 15:42	41801	GOCI_T2	350	347	-3	1.05	0.91	-0.14	0	0	0	0	0	0	0	0
4/16/2024 15:42	64101	REFR_T1	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
4/16/2024 15:42	41802	GOCI_T2	11	12	1	0.15	0.16	0.01	0	0	0	0	0	0	0	0
4/16/2024 15:43	43801	SWIL_T1	5	5	0	1.32	1.44	0.12	0	0	0	0	0	0	0	0
4/16/2024 15:43	43802	SWIL_T1	3	2	-1	0.5	0.6	0.1	-0.15	-0.14	1	1	0	600	600	0
4/16/2024 15:44	63601	LETO_T1	1	1	0	0.1	0.1	0	0.85	0.85	2	2	0	2100	2100	0
4/16/2024 15:44	45902	AUBU_T1	3	1	-2	0.63	1	0.37	-0.7	-0.78	1	1	0	600	600	0
4/16/2024 15:44	63602	LETO_T1	41	127	86	0.17	0.24	0.07	0	0	0	0	0	0	0	0
4/16/2024 15:45	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
4/16/2024 15:45	41504	FAIR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 15:45	59001	MIFF_T1	3	3	0	0.73	0.83	0.1	0	0	0	0	0	0	0	0
4/16/2024 15:45	59002	MIFF_T1	5	4	-1	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
4/16/2024 15:45	59003	MIFF_T1	1	1	0	0.2	0.1	-0.1	-0.45	-0.29	0	0	0	0	0	0
4/16/2024 15:46	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 15:46	63602	LETO_T1	96	124	28	0.18	0.24	0.06	-0.22	-0.22	0	0	0	0	0	0
4/16/2024 15:49	41802	GOCI_T2	12	3	-9	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
4/16/2024 15:49	41801	GOCI_T2	347	268	-79	0.91	0.48	-0.43	0	0	0	0	0	0	0	0
4/16/2024 15:51	10602	BLGL_T2	2	2	0	0.6	0.5	-0.1	0.96	0.83	0	0	0	0	0	0
4/16/2024 15:53	50506	MECH_T1	1	2	1	0.1	0.1	0	-0.06	-0.06	1	1	0	900	900	0
4/16/2024 15:53	50502	MECH_T1	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
4/16/2024 15:53	50501	MECH_T1	4	4	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/16/2024 15:53	50505	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 15:55	56802	BENV_T2	12	7	-5	0.62	0.74	0.12	-0.64	-0.63	0	0	0	0	0	0
4/16/2024 15:55	56801	BENV_T1	21	18	-3	0.8	0.73	-0.07	-0.15	-0.18	0	0	0	0	0	0
4/16/2024 15:55	56803	BENV_T1	2	2	0	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
4/16/2024 15:55	45901	AUBU_T1	0	0	0	0	0	0	2.31	2.27	0	0	0	0	0	0
4/16/2024 15:55	45902	AUBU_T1	1	1	0	0.9	1	0.1	-0.78	-0.8	1	1	0	600	600	0
4/16/2024 15:56	56802	BENV_T2	12	7	-5	0.62	0.74	0.12	-1.28	-1.26	0	0	0	0	0	0
4/16/2024 15:56	50502	MECH_T1	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
4/16/2024 15:56	50506	MECH_T1	1	2	1	0.1	0.1	0	-0.06	-0.06	1	1	0	900	900	0
4/16/2024 15:56	50505	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 15:56	50501	MECH_T1	4	4	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/16/2024 15:57	53502	EVIL_T2	0	0	0	0	0	0	0.54	0.82	0	0	0	0	0	0
4/16/2024 15:57	53501	EVIL_T2	5	7	2	0.84	0.43	-0.41	0	0	0	0	0	0	0	0
4/16/2024 15:57	56802	BENV_T2	12	7	-5	0.62	0.74	0.12	-0.64	-0.63	0	0	0	0	0	0
4/16/2024 15:57	47402	PENS_T1	1	2	1	1.1	0.85	-0.25	0	0	0	0	0	0	0	0
4/16/2024 15:57	47403	PENS_T1	4	5	1	0.7	0.62	-0.08	0	0	0	0	0	0	0	0
4/16/2024 15:57	47401	PENS_T1	4	3	-1	0.95	0.97	0.02	1.09	1.1	0	0	0	0	0	0
4/16/2024 15:58	56802	BENV_T2	12	7	-5	0.62	0.74	0.12	-2.56	-2.52	0	0	0	0	0	0
4/16/2024 15:59	56802	BENV_T2	12	7	-5	0.62	0.74	0.12	-1.92	-1.89	0	0	0	0	0	0
4/16/2024 16:00	45902	AUBU_T1	1	1	0	1	0.2	-0.8	-0.78	-0.8	1	1	0	600	600	0
4/16/2024 16:00	56802	BENV_T2	7	4	-3	0.74	0.85	0.11	-0.64	-0.63	0	0	0	0	0	0
4/16/2024 16:01	41502	FAIR_T2	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
4/16/2024 16:01	41504	FAIR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 16:04	44201	POIN_T1	3	27	24	0.2	0.11	-0.09	-1.89	-1.96	2	2	0	2100	2100	0
4/16/2024 16:05	44201	POIN_T1	3	27	24	0.2	0.11	-0.09	-1.89	-1.96	2	2	0	2100	2100	0
4/16/2024 16:06	43302	WATS_T2	4	4	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
4/16/2024 16:06	43301	WATS_T2	7	1	-6	0.36	0.6	0.24	-0.7	0.27	1	0	-1	900	0	-900
4/16/2024 16:07	43301	WATS_T2	7	1	-6	0.36	0.6	0.24	0	0	0	0	0	0	0	0
4/16/2024 16:07	43302	WATS_T2	4	4	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
4/16/2024 16:07	43304	WATS_T2	0	0	0	0	0	0	-0.39	-0.54	0	0	0	0	0	0
4/16/2024 16:08	43304	WATS_T2	0	0	0	0	0	0	-0.39	-0.54	0	0	0	0	0	0
4/16/2024 16:08	43301	WATS_T2	7	1	-6	0.36	0.6	0.24	0	0	0	0	0	0	0	0
4/16/2024 16:08	43302	WATS_T2	4	4	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
4/16/2024 16:09	56802	BENV_T2	7	4	-3	0.74	0.85	0.11	-1.26	-1.3	0	0	0	0	0	0
4/16/2024 16:10	43302	WATS_T2	4	4	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
4/16/2024 16:10	43301	WATS_T2	7	1	-6	0.36	0.6	0.24	0.27	0.28	0	0	0	0	0	0
4/16/2024 16:10	43304	WATS_T2	0	0	0	0	0	0	-0.54	-0.6	0	0	0	0	0	0
4/16/2024 16:11	45902	AUBU_T1	1	1	0	1	0.2	-0.8	-0.8	-0.81	1	1	0	600	600	0
4/16/2024 16:13	56802	BENV_T2	7	4	-3	0.74	0.85	0.11	-0.63	-0.65	0	0	0	0	0	0
4/16/2024 16:13	64101	REFR_T1	0	0	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0
4/16/2024 16:15	12002	HATF_T1	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
4/16/2024 16:19	45902	AUBU_T1	1	1	0	0.2	0.5	0.3	-0.8	-0.81	1	1	0	600	600	0
4/16/2024 16:26	45902	AUBU_T1	1	1	0	0.2	0.5	0.3	-0.81	-0.87	1	1	0	600	600	0
4/16/2024 16:31	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
4/16/2024 16:32	45902	AUBU_T1	0	1	1	0	0.6	0.6	-0.81	-0.87	1	1	0	600	600	0
4/16/2024 16:33	47104	MARL_T1	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
4/16/2024 16:35	44201	POIN_T1	22	252	230	0.11	0.27	0.16	-2	-2.34	2	2	0	2100	2100	0
4/16/2024 16:36	44201	POIN_T1	22	252	230	0.11	0.27	0.16	-3.99	-4.67	4	4	0	4200	4200	0
4/16/2024 16:39	64101	REFR_T1	0	0	0	0	0	0	-0.87	-0.82	0	0	0	0	0	0
4/16/2024 16:39	14204	EALL_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
4/16/2024 16:39	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 16:40	56802	BENV_T2	4	4	0	0.85	0.78	-0.07	-1.24	-1.26	0	0	0	0	0	0
4/16/2024 16:41	15001	BLMO_T1	4	4	0	0.65	0.68	0.03	0	0	0	0	0	0	0	0
4/16/2024 16:42	45902	AUBU_T1	0	1	1	0	0.6	0.6	-0.87	-0.94	1	1	0	600	600	0
4/16/2024 16:42	23404	HONE_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
4/16/2024 16:42	23403	HONE_T1	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
4/16/2024 16:43	56802	BENV_T2	4	4	0	0.85	0.78	-0.07	-0.62	-0.63	0	0	0	0	0	0
4/16/2024 16:45	56802	BENV_T2	4	3	-1	0.78	0.57	-0.21	-0.62	-0.63	0	0	0	0	0	0
4/16/2024 16:45	60801	BUCK_T1	0	0	0	0	0	0	-0.73	-0.76	1	1	0	600	600	0
4/16/2024 16:47	45902	AUBU_T1	1	1	0	0.5	0.6	0.1	-0.87	-0.94	1	1	0	600	600	0
4/16/2024 16:49	47403	PENS_T1	5	4	-1	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
4/16/2024 16:49	47401	PENS_T1	2	2	0	0.65	0.4	-0.25	1.09	1.1	0	0	0	0	0	0
4/16/2024 16:49	13704	SCHN_T2	1	0	-1	0.2	0	-0.2	-0.33	-0.3	0	0	0	0	0	0
4/16/2024 16:49	47402	PENS_T1	2	1	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/16/2024 16:50	60801	BUCK_T1	0	0	0	0	0	0	-0.73	-0.76	1	1	0	600	600	0
4/16/2024 16:50	44201	POIN_T1	190	236	46	0.26	0.27	0.01	-2.34	-2.31	2	2	0	2100	2100	0
4/16/2024 16:52	47403	PENS_T1	5	4	-1	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
4/16/2024 16:52	47402	PENS_T1	2	1	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/16/2024 16:52	47401	PENS_T1	2	2	0	0.65	0.4	-0.25	2.18	2.2	0	0	0	0	0	0
4/16/2024 16:53	45902	AUBU_T1	1	1	0	0.5	0.6	0.1	-0.94	-0.92	1	1	0	600	600	0
4/16/2024 16:53	13704	SCHN_T2	1	0	-1	0.2	0	-0.2	-0.67	-0.6	0	0	0	0	0	0
4/16/2024 16:54	59101	WALK_T2	0	0	0	0	0	0	1.5	1.45	0	0	0	0	0	0
4/16/2024 16:54	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 16:54	59102	WALK_T2	2	1	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/16/2024 16:55	67001	STHI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/16/2024 16:55	64101	REFR_T1	0	0	0	0	0	0	-0.82	-0.85	0	0	0	0	0	0
4/16/2024 16:55	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 16:55	61303	EARL_T1	0	0	0	0	0	0	0	0.43	0	0	0	0	0	0
4/16/2024 16:55	67002	STHI_T2	1	1	0	0.3	0.1	-0.2	1.48	1.44	0	0	0	0	0	0
4/16/2024 16:56	61303	EARL_T1	0	0	0	0	0	0	0	0.43	0	0	0	0	0	0
4/16/2024 16:56	67001	STHI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/16/2024 16:56	67002	STHI_T2	1	1	0	0.3	0.1	-0.2	0.74	0.72	0	0	0	0	0	0
4/16/2024 16:56	29402	BELT_T1	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
4/16/2024 16:58	61303	EARL_T1	0	0	0	0	0	0	0	0.43	0	0	0	0	0	0
4/16/2024 16:58	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 16:58	29402	BELT_T1	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
4/16/2024 16:58	45902	AUBU_T1	1	1	0	0.5	0.6	0.1	-0.94	-0.92	1	1	0	600	600	0
4/16/2024 17:00	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
4/16/2024 17:01	48302	ORWI_T2	2	2	0	1.95	1.95	0	-0.02	-0.02	0	0	0	0	0	0
4/16/2024 17:01	12601	MACA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 17:01	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 17:01	29402	BELT_T1	1	1	0	7.4	7	-0.4	0	0	0	0	0	0	0	0
4/16/2024 17:01	12605	MACA_T1	1	0	-1	0.1	0	-0.1	0.24	0.23	0	0	0	0	0	0
4/16/2024 17:01	12606	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 17:02	52006	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 17:02	52002	LING_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/16/2024 17:02	52004	LING_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
4/16/2024 17:03	45801	HEGI_T1	0	0	0	0	0	0	-0.2	-0.26	1	1	0	900	900	0
4/16/2024 17:04	12606	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 17:04	12605	MACA_T1	1	0	-1	0.1	0	-0.1	0.24	0.23	0	0	0	0	0	0
4/16/2024 17:04	12601	MACA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 17:05	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
4/16/2024 17:06	54203	PENN_T1	14	7	-7	0.3	0.44	0.14	0.26	0.21	0	0	0	0	0	0
4/16/2024 17:06	54201	PENN_T1	3	3	0	0.83	0.83	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/16/2024 17:08	45902	AUBU_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/16/2024 17:08	59202	THOM_T1	8	8	0	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
4/16/2024 17:08	45901	AUBU_T1	0	0	0	0	0	0	2.18	2.15	0	0	0	0	0	0
4/16/2024 17:09	10903	COOP_T2	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
4/16/2024 17:09	45902	AUBU_T1	1	1	0	0.6	0.5	-0.1	-0.92	-0.99	1	1	0	600	600	0
4/16/2024 17:09	10901	COOP_T2	0	0	0	0	0	0	1.1	1.04	0	0	0	0	0	0
4/16/2024 17:11	45902	AUBU_T1	1	1	0	0.6	0.5	-0.1	-0.92	-0.99	1	1	0	600	600	0
4/16/2024 17:14	45902	AUBU_T1	1	1	0	0.6	0.5	-0.1	-0.92	-0.99	1	1	0	600	600	0
4/16/2024 17:15	44302	BEAV_T2	7	23	16	0.24	0.17	-0.07	0.31	0.31	0	0	0	0	0	0
4/16/2024 17:18	13302	ORVI_T2	0	10	10	0	0.13	0.13	1.08	1.18	0	0	0	0	0	0
4/16/2024 17:24	45902	AUBU_T1	1	1	0	0.5	0.4	-0.1	-0.99	-1.03	1	1	0	600	600	0
4/16/2024 17:29	45902	AUBU_T1	1	1	0	0.5	0.4	-0.1	-0.99	-1.03	1	1	0	600	600	0
4/16/2024 17:47	64902	MILL_T2	0	0	0	0	0	0	-0.54	-0.56	1	1	0	900	900	0
4/16/2024 17:49	64904	MILL_T1	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
4/16/2024 17:49	64902	MILL_T2	0	0	0	0	0	0	-0.54	-0.56	1	1	0	900	900	0
4/16/2024 17:51	67805	WLAN_T1	0	0	0	0	0	0	-1.22	-1.27	0	0	0	0	0	0
4/16/2024 17:51	65205	PRIN_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
4/16/2024 17:53	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 17:55	67803	WLAN_T1	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
4/16/2024 17:55	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 17:56	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-2.07	-2.13	2	2	0	1200	1200	0
4/16/2024 18:01	45902	AUBU_T1	0	0	0	0	0	0	-1.04	-1.06	1	1	0	600	600	0
4/16/2024 18:10	14601	SWHI_T1	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
4/16/2024 18:10	45501	DERR_T2	0	0	0	0	0	0	0.15	0.11	2	2	0	1800	1800	0
4/16/2024 18:10	29402	BELT_T1	1	1	0	6.2	6.5	0.3	0	0	0	0	0	0	0	0
4/16/2024 18:10	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 18:12	41903	REED_T1	0	0	0	0	0	0	-0.24	-0.24	1	1	0	1200	1200	0
4/16/2024 18:16	64701	LITI_T1	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
4/16/2024 18:19	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 18:20	59201	THOM_T1	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/16/2024 18:20	59202	THOM_T1	27	13	-14	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
4/16/2024 18:21	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 18:22	59202	THOM_T1	27	13	-14	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
4/16/2024 18:22	59201	THOM_T1	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/16/2024 18:25	59201	THOM_T1	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/16/2024 18:25	59202	THOM_T1	27	13	-14	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
4/16/2024 18:25	67805	WLAN_T1	0	0	0	0	0	0	-1.32	-1.33	0	0	0	0	0	0
4/16/2024 18:26	29402	BELT_T1	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
4/16/2024 18:26	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 18:28	12006	HATF_T1	0	0	0	0	0	0	1.42	1.45	0	0	0	0	0	0
4/16/2024 18:28	41502	FAIR_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
4/16/2024 18:30	56802	BENV_T2	19	79	60	0.18	0.18	0	-0.76	-0.71	0	0	0	0	0	0
4/16/2024 18:31	44502	HAMI_T2	1	1	0	3.3	3.5	0.2	-0.88	-0.93	0	0	0	0	0	0
4/16/2024 18:34	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/16/2024 18:35	43103	SMIL_T2	13	9	-4	0.32	0.36	0.04	0	0	0	0	0	0	0	0
4/16/2024 18:35	43102	SMIL_T2	5	4	-1	0.22	0.33	0.11	-0.86	-0.87	1	1	0	600	600	0
4/16/2024 18:35	13303	ORVI_T1	0	0	0	0	0	0	1.04	1.02	0	0	0	0	0	0
4/16/2024 18:36	15203	SFAR_T2	0	0	0	0	0	0	-1.39	-1.41	0	0	0	0	0	0
4/16/2024 18:36	61103	BERK_T5	3	13	10	0.13	0.11	-0.02	0.09	0.11	0	0	0	0	0	0
4/16/2024 18:36	61101	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 18:36	61102	BERK_T5	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/16/2024 18:39	43102	SMIL_T2	5	4	-1	0.22	0.33	0.11	-0.87	-0.86	1	1	0	600	600	0
4/16/2024 18:39	43103	SMIL_T2	13	9	-4	0.32	0.36	0.04	0	0	0	0	0	0	0	0
4/16/2024 18:44	63305	GREE_T1	0	0	0	0	0	0	-1.09	-1.02	0	0	0	0	0	0
4/16/2024 18:46	64902	MILL_T2	0	0	0	0	0	0	-0.6	-0.65	1	1	0	900	900	0
4/16/2024 18:46	63305	GREE_T1	0	0	0	0	0	0	-1.09	-1.02	0	0	0	0	0	0
4/16/2024 18:46	41901	REED_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
4/16/2024 18:46	41902	REED_T1	0	0	0	0	0	0	1.09	1.11	0	0	0	0	0	0
4/16/2024 18:49	64902	MILL_T2	0	0	0	0	0	0	-0.6	-0.65	1	1	0	900	900	0
4/16/2024 18:50	64902	MILL_T2	0	0	0	0	0	0	-0.6	-0.65	1	1	0	900	900	0
4/16/2024 18:52	14201	EALL_T1	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
4/16/2024 19:00	61302	EARL_T1	0	0	0	0	0	0	0.01	-0.02	2	2	0	1800	1800	0
4/16/2024 19:03	47103	MARL_T2	1	2	1	0.1	0.1	0	-1.12	-1.14	0	0	0	0	0	0
4/16/2024 19:03	47102	MARL_T2	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/16/2024 19:03	52501	PROG_T1	0	0	0	0	0	0	0.58	0.53	1	1	0	300	300	0
4/16/2024 19:04	12601	MACA_T1	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
4/16/2024 19:04	51204	MTON_T2	0	0	0	0	0	0	-0.74	-0.73	1	1	0	900	900	0
4/16/2024 19:04	15204	SFAR_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
4/16/2024 19:05	51204	MTON_T2	0	0	0	0	0	0	-0.74	-0.73	1	1	0	900	900	0
4/16/2024 19:06	52501	PROG_T1	0	0	0	0	0	0	1.15	1.06	2	2	0	600	600	0
4/16/2024 19:07	24802	VALM_T1	0	0	0	0	0	0	3.88	3.24	0	0	0	0	0	0
4/16/2024 19:07	52502	PROG_T2	0	0	0	0	0	0	-0.61	-0.6	1	1	0	900	900	0
4/16/2024 19:08	15204	SFAR_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
4/16/2024 19:09	66505	SMAN_T2	0	0	0	0	0	0	0.37	0.43	2	2	0	1100	1100	0
4/16/2024 19:09	40505	CRES_T1	3	3	0	6.27	6.5	0.23	0.53	0.52	0	0	0	0	0	0
4/16/2024 19:09	40504	CRES_T1	3	12	9	0.1	0.24	0.14	0	0	0	0	0	0	0	0
4/16/2024 19:11	67605	WARW_T1	13	14	1	0.3	0.43	0.13	0	0	0	0	0	0	0	0
4/16/2024 19:11	67604	WARW_T1	0	0	0	0	0	0	0.66	0.64	0	0	0	0	0	0
4/16/2024 19:13	44302	BEAV_T2	32	41	9	0.13	0.18	0.05	0	0	0	0	0	0	0	0
4/16/2024 19:13	44301	BEAV_T2	0	1	1	0	0.1	0.1	0.2	0.17	1	1	0	600	600	0
4/16/2024 19:14	64501	LAVI_T1	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
4/16/2024 19:15	64501	LAVI_T1	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
4/16/2024 19:21	66903	SHIL_T2	1	14	13	0.7	0.14	-0.56	0	0	0	0	0	0	0	0
4/16/2024 19:21	66902	SHIL_T2	55	111	56	0.12	0.14	0.02	0	0	0	0	0	0	0	0
4/16/2024 19:21	66901	SHIL_T2	136	203	67	0.15	0.17	0.02	-1.29	-1.29	0	0	0	0	0	0
4/16/2024 19:38	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 20:06	50701	SMEC_T1	0	0	0	0	0	0	0.46	0.38	0	0	0	0	0	0
4/16/2024 20:11	50701	SMEC_T1	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
4/16/2024 20:15	67703	WERN_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
4/16/2024 20:17	46302	ROHR_T1	4	4	0	2.13	2.28	0.15	0	0	0	0	0	0	0	0
4/16/2024 20:17	46301	ROHR_T1	1	0	-1	0.1	0	-0.1	0.12	0.12	0	0	0	0	0	0
4/16/2024 20:18	46302	ROHR_T1	4	4	0	2.13	2.28	0.15	0.13	0.11	0	0	0	0	0	0
4/16/2024 20:18	52002	LING_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/16/2024 20:18	52006	LING_T2	2	3	1	0.25	0.47	0.22	0	0	0	0	0	0	0	0
4/16/2024 20:18	46301	ROHR_T1	1	0	-1	0.1	0	-0.1	0.24	0.24	0	0	0	0	0	0
4/16/2024 20:18	52004	LING_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
4/16/2024 20:20	46004	BERW_T2	0	0	0	0	0	0	-0.34	-0.46	0	0	0	0	0	0
4/16/2024 20:21	46302	ROHR_T1	4	4	0	2.13	2.28	0.15	0.13	0.11	0	0	0	0	0	0
4/16/2024 20:21	43202	MVIL_T2	57	61	4	0.31	0.61	0.3	0	0	0	0	0	0	0	0
4/16/2024 20:21	43201	MVIL_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
4/16/2024 20:21	46301	ROHR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 20:22	13103	NHAM_T2	0	0	0	0	0	0	-1.77	-1.76	1	1	0	600	600	0
4/16/2024 20:24	43202	MVIL_T2	57	61	4	0.31	0.61	0.3	-0.77	-0.77	0	0	0	0	0	0
4/16/2024 20:25	43202	MVIL_T2	57	61	4	0.31	0.61	0.3	-0.77	-0.77	0	0	0	0	0	0
4/16/2024 20:25	65503	MOJO_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
4/16/2024 20:31	61103	BERK_T5	62	52	-10	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
4/16/2024 20:31	61101	BERK_T5	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 20:31	61102	BERK_T5	4	2	-2	0.28	0.4	0.12	0.61	0.63	1	1	0	300	300	0
4/16/2024 20:31	46203	DANV_T2	0	0	0	0	0	0	-1.2	-1.19	0	0	0	0	0	0
4/16/2024 20:33	61102	BERK_T5	4	2	-2	0.28	0.4	0.12	0	0	0	0	0	0	0	0
4/16/2024 20:33	61103	BERK_T5	62	52	-10	0.14	0.13	-0.01	0.04	0.04	0	0	0	0	0	0
4/16/2024 20:33	67703	WERN_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
4/16/2024 20:33	61101	BERK_T5	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 20:34	46203	DANV_T2	0	0	0	0	0	0	-1.2	-1.19	0	0	0	0	0	0
4/16/2024 20:42	12505	MITR_T2	0	0	0	0	0	0	1.03	0.96	0	0	0	0	0	0
4/16/2024 20:42	12502	MITR_T2	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
4/16/2024 20:56	67605	WARW_T1	15	31	16	0.51	0.47	-0.04	-1.14	-1.16	0	0	0	0	0	0
4/16/2024 20:57	67605	WARW_T1	15	31	16	0.51	0.47	-0.04	0	0	0	0	0	0	0	0
4/16/2024 20:57	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
4/16/2024 20:58	67605	WARW_T1	15	31	16	0.51	0.47	-0.04	-2.28	-2.32	0	0	0	0	0	0
4/16/2024 21:02	55002	NEWP_T1	4	5	1	0.55	0.68	0.13	-0.28	-0.29	0	0	0	0	0	0
4/16/2024 21:03	55002	NEWP_T1	4	5	1	0.55	0.68	0.13	-0.28	-0.29	0	0	0	0	0	0
4/16/2024 21:07	55001	NEWP_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
4/16/2024 21:07	55002	NEWP_T1	4	5	1	0.55	0.68	0.13	0	0	0	0	0	0	0	0
4/16/2024 21:08	55001	NEWP_T1	0	0	0	0	0	0	-0.16	-0.21	0	0	0	0	0	0
4/16/2024 21:08	55002	NEWP_T1	4	5	1	0.55	0.68	0.13	0	0	0	0	0	0	0	0
4/16/2024 21:09	64701	LITI_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
4/16/2024 21:10	42701	AUGU_T1	0	1	1	0	0.1	0.1	0	0	2	2	0	1800	1800	0
4/16/2024 21:10	67501	WEWI_T1	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
4/16/2024 21:12	26002	WDAM_T1	2	2	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
4/16/2024 21:12	26001	WDAM_T1	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
4/16/2024 21:12	42701	AUGU_T1	0	1	1	0	0.1	0.1	0	0	2	2	0	1800	1800	0
4/16/2024 21:14	45702	LIND_T2	1	1	0	0.6	1.4	0.8	-0.58	-0.59	0	0	0	0	0	0
4/16/2024 21:15	45702	LIND_T2	1	1	0	0.7	1.4	0.7	-0.58	-0.59	0	0	0	0	0	0
4/16/2024 21:17	45701	LIND_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
4/16/2024 21:17	45702	LIND_T2	1	1	0	0.7	1.4	0.7	0	0	0	0	0	0	0	0
4/16/2024 21:26	55003	NEWP_T2	7	0	-7	0.3	0	-0.3	-0.25	-0.25	0	0	0	0	0	0
4/16/2024 21:27	10801	CHHI_T1	0	0	0	0	0	0	-0.9	-0.94	1	1	0	900	900	0
4/16/2024 21:28	10801	CHHI_T1	0	0	0	0	0	0	-0.9	-0.94	1	1	0	900	900	0
4/16/2024 21:30	10801	CHHI_T1	0	0	0	0	0	0	-0.9	-0.94	1	1	0	900	900	0
4/16/2024 21:30	46801	HEPB_T2	2	2	0	0.2	0.55	0.35	0	0	0	0	0	0	0	0
4/16/2024 21:30	46803	HEPB_T2	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
4/16/2024 21:33	46801	HEPB_T2	2	2	0	0.2	0.55	0.35	0.52	0.51	0	0	0	0	0	0
4/16/2024 21:33	46802	HEPB_T1	1	1	0	1.2	1.4	0.2	-0.34	-0.34	0	0	0	0	0	0
4/16/2024 21:34	46801	HEPB_T2	2	2	0	0.2	0.55	0.35	0.52	0.51	0	0	0	0	0	0
4/16/2024 21:34	16101	BING_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
4/16/2024 21:34	65604	OVIL_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
4/16/2024 21:35	46801	HEPB_T2	2	2	0	0.2	0.55	0.35	0.52	0.51	0	0	0	0	0	0
4/16/2024 21:35	52502	PROG_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
4/16/2024 21:35	66303	MCGO_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/16/2024 21:35	66302	MCGO_T2	0	0	0	0	0	0	-2.54	-2.54	2	2	0	1200	1200	0
4/16/2024 21:38	52502	PROG_T2	0	0	0	0	0	0	0.53	0.44	0	0	0	0	0	0
4/16/2024 21:39	10602	BLGL_T2	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
4/16/2024 21:39	47401	PENS_T1	0	1	1	0	0.1	0.1	0.81	0.79	0	0	0	0	0	0
4/16/2024 21:40	56802	BENV_T2	134	219	85	0.24	0.34	0.1	-0.77	-0.85	0	0	0	0	0	0
4/16/2024 21:40	13302	ORVI_T2	36	1	-35	0.27	0.1	-0.17	0.96	1.07	0	0	0	0	0	0
4/16/2024 21:41	66303	MCGO_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/16/2024 21:41	45801	HEGI_T1	0	0	0	0	0	0	-0.21	-0.2	1	1	0	900	900	0
4/16/2024 21:41	66302	MCGO_T2	0	0	0	0	0	0	-1.27	-0.87	1	0	-1	600	0	-600
4/16/2024 21:42	11603	CEAL_T1	1	1	0	2.4	2	-0.4	0	0	0	0	0	0	0	0
4/16/2024 21:42	57003	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:42	57006	WHHI_T2	0	1	1	0	0.2	0.2	1.47	2.1	1	0	-1	600	0	-600
4/16/2024 21:42	15701	TANN_T1	1	33	32	5.2	0.31	-4.89	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/16/2024 21:42	57303	MOAL_T2	1	1	0	7	6.5	-0.5	0	0	0	0	0	0	0	0
4/16/2024 21:42	12605	MACA_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
4/16/2024 21:42	15704	TANN_T1	1	235	234	0.1	0.27	0.17	-1.41	-1.46	0	0	0	0	0	0
4/16/2024 21:42	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/16/2024 21:42	16302	ALPA_T2	0	0	0	0	0	0	0.63	0.56	0	0	0	0	0	0
4/16/2024 21:42	57304	MOAL_T2	44	73	29	0.36	0.57	0.21	-0.56	-0.45	0	0	0	0	0	0
4/16/2024 21:42	57301	MOAL_T2	6	10	4	0.15	0.38	0.23	0	0	0	0	0	0	0	0
4/16/2024 21:43	25402	LAHA_T2	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
4/16/2024 21:43	21206	ECAR_T2	1	1	0	7.4	7.7	0.3	1.13	1.07	0	0	0	0	0	0
4/16/2024 21:43	17002	RIRO_T2	189	532	343	0.22	0.34	0.12	0.32	0.28	0	0	0	0	0	0
4/16/2024 21:43	28704	HAML_T2	1	1	0	1.3	1.3	0	-0.01	-0.01	0	0	0	0	0	0
4/16/2024 21:43	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
4/16/2024 21:43	61303	EARL_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
4/16/2024 21:43	28703	HAML_T2	3	3	0	0.93	1.23	0.3	0	0	0	0	0	0	0	0
4/16/2024 21:43	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:44	67802	WLAN_T1	0	19	19	0	0.13	0.13	0	0	0	0	0	0	0	0
4/16/2024 21:44	47002	HUGH_T2	2	12	10	0.1	0.29	0.19	0	0	0	0	0	0	0	0
4/16/2024 21:44	15203	SFAR_T2	0	4	4	0	0.13	0.13	-1.56	-1.58	0	0	0	0	0	0
4/16/2024 21:44	53901	HALI_T2	1	1	0	0.6	1.2	0.6	-0.45	-0.49	0	0	0	0	0	0
4/16/2024 21:44	67002	STHI_T2	0	151	151	0	0.14	0.14	0.6	0.56	0	0	0	0	0	0
4/16/2024 21:44	47001	HUGH_T2	0	0	0	0	0	0	-0.96	-0.37	0	0	0	0	0	0
4/16/2024 21:44	14201	EALL_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
4/16/2024 21:44	29401	BELT_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
4/16/2024 21:44	57002	WHHI_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
4/16/2024 21:44	67001	STHI_T2	92	515	423	0.14	0.24	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:44	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
4/16/2024 21:44	13303	ORVI_T1	0	0	0	0	0	0	0.87	0.84	0	0	0	0	0	0
4/16/2024 21:44	53903	HALI_T2	2	2	0	1.4	1.65	0.25	0	0	0	0	0	0	0	0
4/16/2024 21:44	29402	BELT_T1	1	1	0	7.7	8	0.3	0	0	0	0	0	0	0	0
4/16/2024 21:44	67805	WLAN_T1	224	493	269	0.17	0.34	0.17	-1.49	-1.52	0	0	0	0	0	0
4/16/2024 21:44	57003	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:44	67803	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 21:44	20401	ASHF_T2	0	2	2	0	0.15	0.15	-0.46	-0.47	0	0	0	0	0	0
4/16/2024 21:44	57006	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 21:45	45902	AUBU_T1	11	49	38	0.18	0.24	0.06	-1.21	-1.28	1	1	0	600	600	0
4/16/2024 21:45	64902	MILL_T2	0	0	0	0	0	0	-0.62	-0.67	1	1	0	900	900	0
4/16/2024 21:45	64702	LITI_T2	0	0	0	0	0	0	-1.48	-1.42	0	0	0	0	0	0
4/16/2024 21:45	40101	HUNT_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
4/16/2024 21:45	67002	STHI_T2	0	151	151	0	0.14	0.14	1.2	1.12	0	0	0	0	0	0
4/16/2024 21:45	51104	CARL_T1	1	1	0	2.7	0	-2.7	0	0	0	0	0	0	0	0
4/16/2024 21:45	24702	FLND_T2	0	0	0	0	0	0	0.96	1.3	0	0	0	0	0	0
4/16/2024 21:45	51107	CARL_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 21:45	11507	FREE_T2	0	0	0	0	0	0	0.85	0.65	0	0	0	0	0	0
4/16/2024 21:45	23203	HIRU_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:45	67001	STHI_T2	131	515	384	0.16	0.24	0.08	0	0	0	0	0	0	0	0
4/16/2024 21:45	51108	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 21:45	65702	RVIL_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
4/16/2024 21:45	63602	LETO_T1	74	159	85	0.16	0.31	0.15	-0.42	-0.45	0	0	0	0	0	0
4/16/2024 21:45	51102	CARL_T1	115	93	-22	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
4/16/2024 21:45	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
4/16/2024 21:45	29402	BELT_T1	1	1	0	8	7.5	-0.5	0	0	0	0	0	0	0	0
4/16/2024 21:45	29401	BELT_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
4/16/2024 21:45	23202	HIRU_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
4/16/2024 21:45	16201	POFA_T2	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/16/2024 21:45	15203	SFAR_T2	0	13	13	0	0.12	0.12	-1.56	-1.58	0	0	0	0	0	0
4/16/2024 21:45	61103	BERK_T5	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
4/16/2024 21:45	51101	CARL_T1	0	0	0	0	0	0	-0.77	-0.81	0	0	0	0	0	0
4/16/2024 21:45	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:46	43301	WATS_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
4/16/2024 21:46	43302	WATS_T2	4	4	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
4/16/2024 21:46	42903	MIDD_T2	6	34	28	0.9	0.33	-0.57	-0.18	-0.29	0	0	0	0	0	0
4/16/2024 21:46	41301	FISH_T1	48	123	75	0.24	0.21	-0.03	-0.06	-0.04	0	0	0	0	0	0
4/16/2024 21:46	11801	FRAN_T2	0	20	20	0	0.11	0.11	-0.03	-0.05	0	0	0	0	0	0
4/16/2024 21:46	45902	AUBU_T1	11	49	38	0.18	0.24	0.06	0	0	0	0	0	0	0	0
4/16/2024 21:46	42902	MIDD_T2	87	141	54	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/16/2024 21:46	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
4/16/2024 21:46	57301	MOAL_T2	10	3	-7	0.38	0.17	-0.21	0.3	0.29	0	0	0	0	0	0
4/16/2024 21:46	43801	SWIL_T1	2	3	1	3.3	2.27	-1.03	0	0	0	0	0	0	0	0
4/16/2024 21:46	61103	BERK_T5	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
4/16/2024 21:46	65702	RVIL_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
4/16/2024 21:46	45901	AUBU_T1	0	0	0	0	0	0	2.27	2.37	0	0	0	0	0	0
4/16/2024 21:46	66505	SMAN_T2	3	3	0	1.17	0.6	-0.57	0	0	0	0	0	0	0	0
4/16/2024 21:46	11803	FRAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:46	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:46	51104	CARL_T1	1	1	0	2.7	0	-2.7	0	0	0	0	0	0	0	0
4/16/2024 21:46	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 21:46	59301	MCAL_T1	2	7	5	0.75	0.43	-0.32	0	0	0	0	0	0	0	0
4/16/2024 21:46	12002	HATF_T1	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
4/16/2024 21:46	66503	SMAN_T2	6	0	-6	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/16/2024 21:46	12605	MACA_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
4/16/2024 21:46	51107	CARL_T1	3	0	-3	0.1	0	-0.1	-0.08	-0.08	0	0	0	0	0	0
4/16/2024 21:46	67002	STHI_T2	0	151	151	0	0.14	0.14	0.6	0.56	0	0	0	0	0	0
4/16/2024 21:46	51108	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 21:46	44201	POIN_T1	624	666	42	0.42	0.43	0.01	-2.39	-2.4	2	2	0	2100	2100	0
4/16/2024 21:46	67502	WEWI_T2	0	21	21	0	0.15	0.15	-0.5	-0.55	0	2	0	0	0	0
4/16/2024 21:46	57303	MOAL_T2	1	1	0	6.5	6.9	0.4	0	0	0	0	0	0	0	0
4/16/2024 21:46	57403	SPAN_T1	62	147	85	0.26	0.4	0.14	-0.05	-0.07	0	0	0	0	0	0
4/16/2024 21:46	51102	CARL_T1	115	93	-22	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
4/16/2024 21:46	41305	FISH_T1	6	16	10	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/16/2024 21:46	57304	MOAL_T2	73	26	-47	0.57	0.23	-0.34	-0.56	-0.45	0	0	0	0	0	0
4/16/2024 21:46	62105	ELAN_T1	9	42	33	0.13	0.11	-0.02	0.42	0.41	0	0	0	0	0	0
4/16/2024 21:46	64501	LAVI_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
4/16/2024 21:46	66501	SMAN_T2	8	0	-8	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/16/2024 21:46	67001	STHI_T2	131	515	384	0.16	0.24	0.08	0	0	0	0	0	0	0	0
4/16/2024 21:46	43802	SWIL_T1	0	0	0	0	0	0	-0.21	-0.22	1	1	0	600	600	0
4/16/2024 21:46	45501	BERR_T2	0	1	1	0	0.2	0.2	-0.4	-0.52	2	2	0	1800	1800	0
4/16/2024 21:46	67505	WEWI_T1	0	0	0	0	0	0	-0.22	-0.23	1	1	0	900	900	0
4/16/2024 21:46	62103	ELAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/16/2024 21:46	12603	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:46	57401	SPAN_T1	2	2	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
4/16/2024 21:46	62106	ELAN_T1	7	8	1	0.19	0.21	0.02	0	0	0	0	0	0	0	0
4/16/2024 21:46	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
4/16/2024 21:46	59302	MCAL_T1	1	1	0	0.3	0.7	0.4	-0.35	-0.35	1	1	0	600	600	0
4/16/2024 21:46	56802	BENV_T2	75	219	144	0.16	0.34	0.18	-2.31	-2.55	0	0	0	0	0	0
4/16/2024 21:46	42901	MIDD_T2	172	242	70	0.24	0.37	0.13	0	0	0	0	0	0	0	0
4/16/2024 21:46	66504	SMAN_T2	0	0	0	0	0	0	-0.97	-1.12	0	0	0	0	0	0
4/16/2024 21:46	12001	HATF_T1	0	0	0	0	0	0	1.28	1.32	1	1	0	600	600	0
4/16/2024 21:47	67001	STHI_T2	131	515	384	0.16	0.24	0.08	0	0	0	0	0	0	0	0
4/16/2024 21:47	54601	SUMM_T2	10	9	-1	0.18	0.51	0.33	-3.91	-3.91	4	4	0	4200	4200	0
4/16/2024 21:47	56801	BENV_T1	8	18	10	0.43	0.76	0.33	-0.23	-0.23	0	0	0	0	0	0
4/16/2024 21:47	46002	BERW_T2	0	0	0	0	0	0	-1.15	-0.21	1	0	-1	900	0	-900
4/16/2024 21:47	23404	HONE_T1	1	1	0	1.5	1.9	0.4	0	0	0	0	0	0	0	0
4/16/2024 21:47	60801	BUCK_T1	5	16	11	0.1	0.15	0.05	-0.89	-0.9	1	1	0	600	600	0
4/16/2024 21:47	61303	EARL_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
4/16/2024 21:47	65502	MOJO_T2	137	0	-137	0.11	0	-0.11	0	0	0	0	0	0	0	0
4/16/2024 21:47	45902	AUBU_T1	11	49	38	0.18	0.24	0.06	-1.21	-1.28	1	1	0	600	600	0
4/16/2024 21:47	59201	THOM_T1	1	20	19	0.1	0.29	0.19	0	0	0	0	0	0	0	0
4/16/2024 21:47	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.71	0	0	0	0	0	0
4/16/2024 21:47	63404	HONY_T1	22	58	36	0.17	0.2	0.03	0	0	0	0	0	0	0	0
4/16/2024 21:47	63602	LETO_T1	74	159	85	0.16	0.31	0.15	0	0	0	0	0	0	0	0
4/16/2024 21:47	56802	BENV_T2	75	219	144	0.16	0.34	0.18	-0.77	-0.85	0	0	0	0	0	0
4/16/2024 21:47	65503	MOJO_T2	7	0	-7	0.1	0	-0.1	-0.51	-0.58	0	0	0	0	0	0
4/16/2024 21:47	67501	WEWI_T1	0	0	0	0	0	0	-0.62	-0.67	0	0	0	0	0	0
4/16/2024 21:47	60101	COCA_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
4/16/2024 21:47	67002	STHI_T2	0	151	151	0	0.14	0.14	0.6	0.56	0	0	0	0	0	0
4/16/2024 21:47	67505	WEWI_T1	0	0	0	0	0	0	-0.22	-0.23	1	1	0	900	900	0
4/16/2024 21:47	41202	KENM_T2	1	1	0	0.7	0.8	0.1	0.41	0.39	0	0	0	0	0	0
4/16/2024 21:47	42401	GIMA_T1	56	70	14	0.17	0.22	0.05	0	0	0	0	0	0	0	0
4/16/2024 21:47	62607	ENGL_T1	0	0	0	0	0	0	-1.11	-1.13	1	1	0	300	300	0
4/16/2024 21:47	16301	ALPA_T1	2	27	25	0.3	0.14	-0.16	-0.48	-0.49	0	0	0	0	0	0
4/16/2024 21:47	23403	HONE_T1	0	11	11	0	0.1	0.1	-0.78	-0.85	0	0	0	0	0	0
4/16/2024 21:47	63401	HONY_T1	0	0	0	0	0	0	0.55	0.48	0	0	0	0	0	0
4/16/2024 21:47	65205	PRIN_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
4/16/2024 21:47	64101	REFR_T1	0	0	0	0	0	0	-0.95	-0.97	0	0	0	0	0	0
4/16/2024 21:47	56803	BENV_T1	5	5	0	0.22	0.64	0.42	0	0	0	0	0	0	0	0
4/16/2024 21:47	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:47	59202	THOM_T1	15	274	259	0.17	0.27	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:47	63601	LETO_T1	0	1	1	0	0.1	0.1	0.73	0.45	2	2	0	2100	2100	0
4/16/2024 21:48	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:48	54601	SUMM_T2	10	9	-1	0.18	0.51	0.33	-1.95	-1.96	2	2	0	2100	2100	0
4/16/2024 21:48	56802	BENV_T2	75	219	144	0.16	0.34	0.18	-0.77	-0.85	0	0	0	0	0	0
4/16/2024 21:48	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:48	57006	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 21:48	49803	UNIV_T1	0	0	0	0	0	0	-1.19	0.09	0	0	0	0	0	0
4/16/2024 21:48	45902	AUBU_T1	11	49	38	0.18	0.24	0.06	-2.42	-2.55	2	2	0	1200	1200	0
4/16/2024 21:48	64901	MILL_T1	47	54	7	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
4/16/2024 21:48	60101	COCA_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
4/16/2024 21:48	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:48	16401	MOPO_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
4/16/2024 21:48	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/16/2024 21:48	60502	NMAN_T2	0	0	0	0	0	0	-0.35	-0.39	0	0	0	0	0	0
4/16/2024 21:48	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
4/16/2024 21:48	60501	NMAN_T2	9	3	-6	1.86	4.97	3.11	0	0	0	0	0	0	0	0
4/16/2024 21:48	12006	HATF_T1	0	0	0	0	0	0	1.11	1.18	0	0	0	0	0	0
4/16/2024 21:48	64902	MILL_T2	0	0	0	0	0	0	-0.62	-0.67	1	1	0	900	900	0
4/16/2024 21:48	47104	MARL_T1	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
4/16/2024 21:48	65207	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:48	64904	MILL_T1	193	131	-62	0.2	0.15	-0.05	-0.41	-0.41	0	0	0	0	0	0
4/16/2024 21:48	12001	HATF_T1	0	0	0	0	0	0	1.28	1.32	1	1	0	600	600	0
4/16/2024 21:48	12002	HATF_T1	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
4/16/2024 21:48	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:48	47101	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:48	55001	NEWP_T1	0	15	15	0	0.15	0.15	-0.26	-0.26	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/16/2024 21:48	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:48	57004	WHHI_T2	0	0	0	0	0	0	-0.63	-0.68	0	0	0	0	0	0
4/16/2024 21:48	63305	GREE_T1	1	5	4	0.2	0.27	0.07	-1.18	-1.23	0	0	0	0	0	0
4/16/2024 21:48	65901	SAKR_T2	1	1	0	9.5	9.7	0.2	-1.35	-1.34	1	1	0	900	900	0
4/16/2024 21:48	45901	AUBU_T1	0	0	0	0	0	0	2.27	2.37	0	0	0	0	0	0
4/16/2024 21:48	55002	NEWP_T1	4	4	0	0.55	0.98	0.43	-0.3	-0.29	0	0	0	0	0	0
4/16/2024 21:48	49804	UNIV_T1	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:48	59101	WALK_T2	0	0	0	0	0	0	1.43	1.44	0	0	0	0	0	0
4/16/2024 21:48	42201	SHEN_T2	0	0	0	0	0	0	-0.02	-0.03	1	1	0	600	600	0
4/16/2024 21:49	67802	WLAN_T1	6	23	17	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/16/2024 21:49	67801	WLAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:49	47401	PENS_T1	0	1	1	0	0.1	0.1	0.81	0.79	0	0	0	0	0	0
4/16/2024 21:49	42902	MIDD_T2	87	141	54	0.3	0.35	0.05	-0.43	-0.51	0	0	0	0	0	0
4/16/2024 21:49	62105	ELAN_T1	9	42	33	0.13	0.11	-0.02	0.42	0.41	0	0	0	0	0	0
4/16/2024 21:49	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:49	43301	WATS_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
4/16/2024 21:49	15001	BLMO_T1	2	4	2	0.1	0.55	0.45	0	0	0	0	0	0	0	0
4/16/2024 21:49	22401	MORG_T2	1	21	20	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/16/2024 21:49	67803	WLAN_T1	0	1	1	0	0.3	0.3	-0.88	-0.92	0	0	0	0	0	0
4/16/2024 21:49	45801	HEGI_T1	0	0	0	0	0	0	-0.21	-0.2	1	1	0	900	900	0
4/16/2024 21:49	59302	MCAL_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/16/2024 21:49	67505	WEWI_T1	0	0	0	0	0	0	-0.22	-0.23	1	1	0	900	900	0
4/16/2024 21:49	15204	SFAR_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
4/16/2024 21:49	59301	MCAL_T1	2	7	5	0.75	0.43	-0.32	-1.22	-1.23	0	0	0	0	0	0
4/16/2024 21:49	64101	REFR_T1	0	0	0	0	0	0	-1.9	-1.95	0	0	0	0	0	0
4/16/2024 21:49	15203	SFAR_T2	0	13	13	0	0.12	0.12	0	0	0	0	0	0	0	0
4/16/2024 21:49	54201	PENN_T1	45	95	50	0.35	0.36	0.01	0	0	0	0	0	0	0	0
4/16/2024 21:49	11803	FRAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:49	54205	PENN_T1	13	75	62	0.1	0.24	0.14	0	0	0	0	0	0	0	0
4/16/2024 21:49	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:49	11801	FRAN_T2	0	20	20	0	0.11	0.11	-0.03	-0.05	0	0	0	0	0	0
4/16/2024 21:49	67804	WLAN_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:49	60803	BUCK_T1	0	0	0	0	0	0	-0.53	-0.54	1	1	0	600	600	0
4/16/2024 21:49	66505	SMAN_T2	3	3	0	1.17	0.6	-0.57	-0.13	-0.08	2	2	0	1100	1100	0
4/16/2024 21:49	47002	HUGH_T2	4	12	8	0.2	0.29	0.09	0	0	0	0	0	0	0	0
4/16/2024 21:49	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 21:49	67002	STHI_T2	0	151	151	0	0.14	0.14	1.79	1.68	0	0	0	0	0	0
4/16/2024 21:49	62106	ELAN_T1	7	8	1	0.19	0.21	0.02	0	0	0	0	0	0	0	0
4/16/2024 21:49	56802	BENV_T2	75	219	144	0.16	0.34	0.18	-0.77	-0.85	0	0	0	0	0	0
4/16/2024 21:49	60801	BUCK_T1	5	16	11	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/16/2024 21:49	65205	PRIN_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
4/16/2024 21:49	22405	MORG_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
4/16/2024 21:49	58402	MORO_T1	0	0	0	0	0	0	-0.3	-0.29	2	2	0	1500	1500	0
4/16/2024 21:49	42903	MIDD_T2	6	34	28	0.9	0.33	-0.57	0	0	0	0	0	0	0	0
4/16/2024 21:49	44601	SALE_T2	1	1	0	0.9	0.6	-0.3	-0.1	-0.04	0	0	0	0	0	0
4/16/2024 21:49	67805	WLAN_T1	467	499	32	0.27	0.36	0.09	0	0	0	0	0	0	0	0
4/16/2024 21:49	52501	PROG_T1	0	0	0	0	0	0	0.41	0.34	1	1	0	300	300	0
4/16/2024 21:49	61103	BERK_T5	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
4/16/2024 21:49	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/16/2024 21:49	45902	AUBU_T1	11	49	38	0.18	0.24	0.06	-1.21	-1.28	1	1	0	600	600	0
4/16/2024 21:49	67001	STHI_T2	131	515	384	0.16	0.24	0.08	0.05	0.04	0	0	0	0	0	0
4/16/2024 21:49	66503	SMAN_T2	6	0	-6	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/16/2024 21:49	42901	MIDD_T2	172	242	70	0.24	0.37	0.13	0	0	0	0	0	0	0	0
4/16/2024 21:49	44302	BEAV_T2	4	30	26	0.1	0.14	0.04	0.23	0.24	0	0	0	0	0	0
4/16/2024 21:49	66501	SMAN_T2	8	0	-8	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/16/2024 21:49	66703	STRA_T1	0	4	4	0	0.15	0.15	-0.41	-0.44	0	0	0	0	0	0
4/16/2024 21:49	62103	ELAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/16/2024 21:49	54203	PENN_T1	83	243	160	0.37	0.35	-0.02	0.04	0.03	0	0	0	0	0	0
4/16/2024 21:49	47001	HUGH_T2	0	0	0	0	0	0	-0.96	-0.37	0	0	0	0	0	0
4/16/2024 21:49	43302	WATS_T2	4	4	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
4/16/2024 21:49	13901	SEID_T1	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
4/16/2024 21:49	44301	BEAV_T2	0	0	0	0	0	0	0.58	0.52	1	1	0	600	600	0
4/16/2024 21:50	67002	STHI_T2	0	151	151	0	0.14	0.14	0.6	0.56	0	0	0	0	0	0
4/16/2024 21:50	15703	TANN_T2	1	1	0	5.4	5.1	-0.3	0	0	0	0	0	0	0	0
4/16/2024 21:50	45902	AUBU_T1	11	49	38	0.18	0.24	0.06	-2.42	-2.55	2	2	0	1200	1200	0
4/16/2024 21:50	14601	SWHI_T1	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
4/16/2024 21:50	23203	HIRU_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:50	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
4/16/2024 21:50	67702	WERN_T2	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
4/16/2024 21:50	64204	KINZ_T1	1	1	0	0.8	1.5	0.7	0	0	0	0	0	0	0	0
4/16/2024 21:50	20401	ASHF_T2	0	2	2	0	0.15	0.15	-0.46	-0.47	0	0	0	0	0	0
4/16/2024 21:50	44302	BEAV_T2	4	30	26	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/16/2024 21:50	53601	DALM_T2	1	1	0	0.5	0.6	0.1	0.04	0.05	0	0	0	0	0	0
4/16/2024 21:50	50506	MECH_T1	0	3	3	0	0.2	0.2	-0.01	-0.27	0	0	0	0	0	0
4/16/2024 21:50	15001	BLMO_T1	2	4	2	0.1	0.55	0.45	0	0	0	0	0	0	0	0
4/16/2024 21:50	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.25	-0.27	0	0	0	0	0	0
4/16/2024 21:50	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:50	66503	SMAN_T2	6	0	-6	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/16/2024 21:50	47102	MARL_T2	4	17	13	0.15	0.16	0.01	0	0	0	0	0	0	0	0
4/16/2024 21:50	24902	WHHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:50	53901	HALI_T2	1	1	0	0.9	1.2	0.3	-0.45	-0.49	0	0	0	0	0	0
4/16/2024 21:50	44601	SALE_T2	1	1	0	0.9	0.6	-0.3	-0.1	-0.04	0	0	0	0	0	0
4/16/2024 21:50	23001	SAJO_T1	0	0	0	0	0	0	0.07	0.11	0	0	0	0	0	0
4/16/2024 21:50	48302	ORWI_T2	2	2	0	1.95	2.15	0.2	-0.12	-0.13	0	0	0	0	0	0
4/16/2024 21:50	44502	HAMI_T2	1	1	0	3.9	3.7	-0.2	-1.01	-1.04	0	0	0	0	0	0
4/16/2024 21:50	65702	RVIL_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
4/16/2024 21:50	50502	MECH_T1	1	1	0	3.1	3.4	0.3	0	0	0	0	0	0	0	0
4/16/2024 21:50	12801	MICK_T1	0	0	0	0	0	0	-0.31	-0.3	1	1	0	600	600	0
4/16/2024 21:50	12803	MICK_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/16/2024 21:50	56802	BENV_T2	75	219	144	0.16	0.34	0.18	-1.54	-1.7	0	0	0	0	0	0
4/16/2024 21:50	13601	RICH_T2	0	0	0	0	0	0	-0.05	-0.06	1	1	0	600	600	0
4/16/2024 21:50	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:50	60902	DONG_T2	0	0	0	0	0	0	0.63	0.56	0	0	0	0	0	0
4/16/2024 21:50	26001	WDAM_T1	0	0	0	0	0	0	-0.84	-0.88	0	0	0	0	0	0
4/16/2024 21:50	62601	ENGL_T1	0	0	0	0	0	0	-0.11	-0.15	0	0	0	0	0	0
4/16/2024 21:50	13606	RICH_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
4/16/2024 21:50	53903	HALI_T2	2	2	0	1.45	1.65	0.2	0	0	0	0	0	0	0	0
4/16/2024 21:50	64303	LINC_T1	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
4/16/2024 21:50	67001	STHI_T2	131	515	384	0.16	0.24	0.08	0.05	0.04	0	0	0	0	0	0
4/16/2024 21:50	66505	SMAN_T2	3	3	0	1.17	0.6	-0.57	0	0	0	0	0	0	0	0
4/16/2024 21:50	15702	TANN_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
4/16/2024 21:50	47103	MARL_T2	3	31	28	0.17	0.15	-0.02	-1.32	-1.38	0	0	0	0	0	0
4/16/2024 21:50	59201	THOM_T1	1	20	19	0.1	0.29	0.19	0	0	0	0	0	0	0	0
4/16/2024 21:50	59202	THOM_T1	15	274	259	0.17	0.27	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:50	50501	MECH_T1	4	4	0	1.28	1.53	0.25	0	0	0	0	0	0	0	0
4/16/2024 21:50	50504	MECH_T1	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
4/16/2024 21:50	15103	UPHA_T2	0	1	1	0	0	0	0.38	0.38	0	0	0	0	0	0
4/16/2024 21:50	61103	BERK_T5	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
4/16/2024 21:50	61304	EARL_T1	0	0	0	0	0	0	-1.06	-1.06	1	1	0	600	600	0
4/16/2024 21:50	50505	MECH_T1	0	3	3	0	0.1	0.1	-0.92	-0.93	0	0	0	0	0	0
4/16/2024 21:50	45602	WOOL_T1	3	3	0	1.1	1.13	0.03	0.76	0.71	0	0	0	0	0	0
4/16/2024 21:50	23202	HIRU_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
4/16/2024 21:50	12807	MICK_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/16/2024 21:50	26002	WDAM_T1	2	4	2	0.55	0.58	0.03	0	0	0	0	0	0	0	0
4/16/2024 21:50	63305	GREE_T1	1	5	4	0.2	0.27	0.07	-1.18	-1.23	0	0	0	0	0	0
4/16/2024 21:50	66501	SMAN_T2	8	0	-8	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/16/2024 21:50	67703	WERN_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
4/16/2024 21:50	46001	BERW_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
4/16/2024 21:50	64201	KINZ_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/16/2024 21:50	44301	BEAV_T2	0	0	0	0	0	0	0.58	0.52	1	1	0	600	600	0
4/16/2024 21:50	64202	KINZ_T1	3	3	0	0.47	0.67	0.2	0.62	0.54	0	0	0	0	0	0
4/16/2024 21:50	24901	WHHA_T1	132	214	82	0.22	0.24	0.02	0	0	0	0	0	0	0	0
4/16/2024 21:50	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/16/2024 21:51	67802	WLAN_T1	6	23	17	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/16/2024 21:51	67502	WEWI_T2	0	21	21	0	0.15	0.15	-0.5	-0.55	0	0	0	0	0	0
4/16/2024 21:51	40303	TAMA_T3	8	9	1	0.25	0.44	0.19	0	0	0	0	0	0	0	0
4/16/2024 21:51	42901	MIDD_T2	172	242	70	0.24	0.37	0.13	0	0	0	0	0	0	0	0
4/16/2024 21:51	67801	WLAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:51	44502	HAMI_T2	1	1	0	3.9	3.7	-0.2	0	0	0	0	0	0	0	0
4/16/2024 21:51	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:51	59202	THOM_T1	15	274	259	0.17	0.27	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:51	66501	SMAN_T2	8	0	-8	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/16/2024 21:51	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:51	28403	HART_T2	0	0	0	0	0	0	-0.92	-0.94	1	1	0	900	900	0
4/16/2024 21:51	63401	HONY_T1	0	0	0	0	0	0	0.55	0.48	0	0	0	0	0	0
4/16/2024 21:51	56802	BENV_T2	75	219	144	0.16	0.34	0.18	-0.77	-0.85	0	0	0	0	0	0
4/16/2024 21:51	66901	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 21:51	67804	WLAN_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:51	57401	SPAN_T1	2	2	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
4/16/2024 21:51	41801	GOOL_T2	127	186	59	0.28	0.38	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:51	24602	VARD_T2	836	962	126	1.21	1.37	0.16	-1.13	-1.17	0	0	0	0	0	0
4/16/2024 21:51	24105	EHAZ_T1	4	4	0	5.88	5.6	-0.28	0	0	0	0	0	0	0	0
4/16/2024 21:51	63404	HONY_T1	22	58	36	0.17	0.2	0.03	0	0	0	0	0	0	0	0
4/16/2024 21:51	41301	FISH_T1	48	123	75	0.24	0.21	-0.03	-0.06	-0.04	0	0	0	0	0	0
4/16/2024 21:51	66903	SHIL_T2	0	0	0	0	0	0	-1.02	-1	0	0	0	0	0	0
4/16/2024 21:51	67805	WLAN_T1	467	499	32	0.27	0.36	0.09	0	0	0	0	0	0	0	0
4/16/2024 21:51	41901	REED_T1	6	8	2	0.22	0.29	0.07	0	0	0	0	0	0	0	0
4/16/2024 21:51	15203	SFAR_T2	0	13	13	0	0.12	0.12	-1.56	-1.58	0	0	0	0	0	0
4/16/2024 21:51	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/16/2024 21:51	46203	DANV_T2	9	34	25	0.13	0.19	0.06	0	0	0	0	0	0	0	0
4/16/2024 21:51	43302	WATS_T2	4	4	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
4/16/2024 21:51	42903	MIDD_T2	6	34	28	0.9	0.33	-0.57	-0.18	-0.29	0	0	0	0	0	0
4/16/2024 21:51	47401	PENS_T1	0	1	1	0	0.1	0.1	1.61	1.58	0	0	0	0	0	0
4/16/2024 21:51	10901	COOP_T2	0	0	0	0	0	0	0.79	0.74	0	0	0	0	0	0
4/16/2024 21:51	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.25	-0.27	0	0	0	0	0	0
4/16/2024 21:51	60501	NMAN_T2	9	3	-6	1.86	4.97	3.11	0	0	0	0	0	0	0	0
4/16/2024 21:51	43301	WATS_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
4/16/2024 21:51	24603	VARD_T2	256	380	124	0.36	0.37	0.01	0	0	0	0	0	0	0	0
4/16/2024 21:51	24102	EHAZ_T1	2	2	0	0.75	0.1	-0.65	0.51	0.29	0	0	0	0	0	0
4/16/2024 21:51	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:51	67001	STHI_T2	131	515	384	0.16	0.24	0.08	0	0	0	0	0	0	0	0
4/16/2024 21:51	20603	GRWO_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
4/16/2024 21:51	41305	FISH_T1	6	16	10	0.1	0.16	0.06	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/16/2024 21:51	63403	HONY_T2	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
4/16/2024 21:51	62607	ENGL_T1	0	0	0	0	0	0	-1.11	-1.13	1	1	0	300	300	0
4/16/2024 21:51	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:51	66505	SMAN_T2	3	3	0	1.17	0.6	-0.57	0	0	0	0	0	0	0	0
4/16/2024 21:51	67803	WLAN_T1	0	1	1	0	0.3	0.3	-0.88	-0.92	0	0	0	0	0	0
4/16/2024 21:51	45602	WOOL_T1	3	3	0	1.1	1.13	0.03	0	0	0	0	0	0	0	0
4/16/2024 21:51	41802	GOCI_T2	19	22	3	0.23	0.26	0.03	0	0	0	0	0	0	0	0
4/16/2024 21:51	44201	POIN_T1	624	666	42	0.42	0.43	0.01	-2.39	-2.4	2	2	0	2100	2100	0
4/16/2024 21:51	58302	NOTT_T1	0	0	0	0	0	0	-0.21	-0.25	1	1	0	1200	1200	0
4/16/2024 21:51	66503	SMAN_T2	6	0	-6	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/16/2024 21:51	24201	PROV_T3	1	1	0	6.8	6.5	-0.3	-0.23	-0.23	0	0	0	0	0	0
4/16/2024 21:51	41903	REED_T1	0	0	0	0	0	0	-0.24	-0.15	1	1	0	1200	1200	0
4/16/2024 21:51	59101	WALK_T2	0	0	0	0	0	0	1.43	1.44	0	0	0	0	0	0
4/16/2024 21:51	20403	ASHF_T2	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
4/16/2024 21:51	63402	HONY_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:51	42902	MIDD_T2	87	141	54	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/16/2024 21:51	43304	WATS_T2	0	0	0	0	0	0	-0.67	-0.53	0	0	0	0	0	0
4/16/2024 21:51	57403	SPAN_T1	62	147	85	0.26	0.4	0.14	-0.05	-0.07	0	0	0	0	0	0
4/16/2024 21:51	46206	DANV_T2	0	0	0	0	0	0	1.88	1.91	0	0	0	0	0	0
4/16/2024 21:51	40302	TAMA_T3	49	56	7	0.55	0.65	0.1	0.28	0.27	0	0	0	0	0	0
4/16/2024 21:51	12002	HATF_T1	1	1	0	0.8	0.2	-0.6	0.06	0.04	0	0	0	0	0	0
4/16/2024 21:51	59201	THOM_T1	1	20	19	0.1	0.29	0.19	0	0	0	0	0	0	0	0
4/16/2024 21:51	60502	NMAN_T2	0	0	0	0	0	0	-0.35	-0.39	0	0	0	0	0	0
4/16/2024 21:51	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.4	-0.52	2	2	0	1800	1800	0
4/16/2024 21:51	24204	PROV_T3	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
4/16/2024 21:51	44504	HAMI_T2	0	0	0	0	0	0	-1.39	-1.4	0	0	0	0	0	0
4/16/2024 21:51	67002	STHI_T2	0	151	151	0	0.14	0.14	1.2	1.12	0	0	0	0	0	0
4/16/2024 21:51	45601	WOOL_T1	0	0	0	0	0	0	-0.07	-0.07	1	1	0	1200	1200	0
4/16/2024 21:51	45701	LIND_T2	0	0	0	0	0	0	0.29	0.24	0	0	0	0	0	0
4/16/2024 21:51	45702	LIND_T2	1	1	0	1	0.9	-0.1	-0.6	-0.6	0	0	0	0	0	0
4/16/2024 21:51	16402	MOPO_T1	0	0	0	0	0	0	0.01	-0.04	0	0	0	0	0	0
4/16/2024 21:52	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.4	-0.52	2	2	0	1800	1800	0
4/16/2024 21:52	60502	NMAN_T2	0	0	0	0	0	0	-0.35	-0.39	0	0	0	0	0	0
4/16/2024 21:52	60803	BUCK_T1	0	0	0	0	0	0	-0.53	-0.54	1	1	0	600	600	0
4/16/2024 21:52	46001	BERW_T1	0	0	0	0	0	0	0.93	0.94	0	0	0	0	0	0
4/16/2024 21:52	13704	SCHN_T2	0	3	3	0	0.1	0.1	-0.43	-0.43	0	0	0	0	0	0
4/16/2024 21:52	60501	NMAN_T2	9	3	-6	1.86	4.97	3.11	0	0	0	0	0	0	0	0
4/16/2024 21:52	62106	ELAN_T1	7	8	1	0.19	0.21	0.02	0	0	0	0	0	0	0	0
4/16/2024 21:52	48302	ORWI_T2	2	2	0	1.95	2.15	0.2	0	0	0	0	0	0	0	0
4/16/2024 21:52	29401	BELT_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
4/16/2024 21:52	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:52	29402	BELT_T1	1	1	0	8	7.5	-0.5	0	0	0	0	0	0	0	0
4/16/2024 21:52	24901	WHHA_T1	132	214	82	0.22	0.24	0.02	0	0	0	0	0	0	0	0
4/16/2024 21:52	65702	RVIL_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
4/16/2024 21:52	43302	WATS_T2	4	4	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
4/16/2024 21:52	55002	NEWP_T1	4	4	0	0.55	0.98	0.43	-0.3	-0.29	0	0	0	0	0	0
4/16/2024 21:52	15204	SFAR_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
4/16/2024 21:52	67203	TEHI_T1	0	0	0	0	0	0	2.09	2.09	1	1	0	600	600	0
4/16/2024 21:52	65703	RVIL_T1	0	0	0	0	0	0	-0.31	-0.35	0	0	0	0	0	0
4/16/2024 21:52	44302	BEAV_T2	4	30	26	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/16/2024 21:52	67803	WLAN_T1	0	1	1	0	0.3	0.3	-0.88	-0.92	0	0	0	0	0	0
4/16/2024 21:52	67801	WLAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:52	65303	NBRI_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
4/16/2024 21:52	20603	GRWO_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
4/16/2024 21:52	62105	ELAN_T1	9	42	33	0.13	0.11	-0.02	0.42	0.41	0	0	0	0	0	0
4/16/2024 21:52	55001	NEWP_T1	0	15	15	0	0.15	0.15	0	0	0	0	0	0	0	0
4/16/2024 21:52	15203	SFAR_T2	0	13	13	0	0.12	0.12	0	0	0	0	0	0	0	0
4/16/2024 21:52	44301	BEAV_T2	0	0	0	0	0	0	0.58	0.52	1	1	0	600	600	0
4/16/2024 21:52	42002	MNVL_T2	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
4/16/2024 21:52	58402	MORO_T1	0	0	0	0	0	0	-0.3	-0.29	2	2	0	1500	1500	0
4/16/2024 21:52	66501	SMAN_T2	8	0	-8	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/16/2024 21:52	41502	FAIR_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
4/16/2024 21:52	66703	STRA_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
4/16/2024 21:52	51204	MTON_T2	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
4/16/2024 21:52	44601	SALE_T2	1	1	0	0.9	0.6	-0.3	-0.1	-0.04	0	0	0	0	0	0
4/16/2024 21:52	46004	BERW_T2	0	0	0	0	0	0	-0.4	-0.51	0	0	0	0	0	0
4/16/2024 21:52	54601	SUMM_T2	10	9	-1	0.18	0.51	0.33	-1.95	-1.96	2	2	0	2100	2100	0
4/16/2024 21:52	42802	SELI_T1	0	1	1	0	0.4	0.4	-0.12	-0.12	0	0	0	0	0	0
4/16/2024 21:52	24902	WHHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:52	66503	SMAN_T2	6	0	-6	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/16/2024 21:52	43301	WATS_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
4/16/2024 21:52	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.28	1	1	0	600	600	0
4/16/2024 21:52	66701	STRA_T1	0	0	0	0	0	0	-0.37	0.25	1	0	-1	600	0	-600
4/16/2024 21:52	66505	SMAN_T2	3	3	0	1.17	0.6	-0.57	-0.13	-0.08	2	2	0	1100	1100	0
4/16/2024 21:52	28403	HART_T2	0	0	0	0	0	0	-0.92	-0.94	1	1	0	900	900	0
4/16/2024 21:52	12601	MACA_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
4/16/2024 21:52	64501	LAVI_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
4/16/2024 21:52	12606	MACA_T1	0	0	0	0	0	0	0.66	0.62	0	0	0	0	0	0
4/16/2024 21:52	12603	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:52	40505	CRES_T1	3	3	0	6.17	6.67	0.5	0.37	0.36	0	0	0	0	0	0
4/16/2024 21:52	67804	WLAN_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:52	67502	WEWI_T2	0	21	21	0	0.15	0.15	-0.5	-0.55	0	0	0	0	0	0
4/16/2024 21:52	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 21:52	67802	WLAN_T1	6	23	17	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/16/2024 21:52	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:52	52501	PROG_T1	0	0	0	0	0	0	0.41	0.34	1	1	0	300	300	0
4/16/2024 21:52	62103	ELAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/16/2024 21:52	67805	WLAN_T1	467	499	32	0.27	0.36	0.09	0	0	0	0	0	0	0	0
4/16/2024 21:52	60801	BUCK_T1	5	16	11	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/16/2024 21:52	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:52	42001	MNVL_T2	0	103	103	0	0.17	0.17	-0.08	-0.08	0	0	0	0	0	0
4/16/2024 21:53	12603	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:53	25503	MADI_T1	195	341	146	0.25	0.46	0.21	-1.06	-1.06	0	0	0	0	0	0
4/16/2024 21:53	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:53	67002	STHI_T2	0	151	151	0	0.14	0.14	0.56	0.49	0	0	0	0	0	0
4/16/2024 21:53	67201	TEHI_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
4/16/2024 21:53	50501	MECH_T1	4	4	0	1.28	1.53	0.25	0	0	0	0	0	0	0	0
4/16/2024 21:53	25501	MADI_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 21:53	59002	MIFF_T1	6	6	0	0.18	0.65	0.47	0	0	0	0	0	0	0	0
4/16/2024 21:53	50505	MECH_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:53	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 21:53	58401	MORO_T1	0	0	0	0	0	0	-1.28	-1.29	1	1	0	600	600	0
4/16/2024 21:53	61103	BERK_T5	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
4/16/2024 21:53	50502	MECH_T1	1	1	0	3.1	3.4	0.3	0	0	0	0	0	0	0	0
4/16/2024 21:53	50504	MECH_T1	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
4/16/2024 21:53	67401	WAKE_T2	0	0	0	0	0	0	-0.96	-0.96	0	0	0	0	0	0
4/16/2024 21:53	66501	SMAN_T2	8	0	-8	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/16/2024 21:53	43302	WATS_T2	4	4	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
4/16/2024 21:53	57403	SPAN_T1	62	147	85	0.26	0.4	0.14	-0.07	-0.09	0	0	0	0	0	0
4/16/2024 21:53	43304	WATS_T2	0	0	0	0	0	0	-0.67	-0.53	0	0	0	0	0	0
4/16/2024 21:53	45902	AUBU_T1	11	49	38	0.18	0.24	0.06	-1.28	-0.63	1	1	0	600	600	0
4/16/2024 21:53	57401	SPAN_T1	2	2	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
4/16/2024 21:53	12602	MACA_T1	0	0	0	0	0	0	-0.22	-0.15	0	0	0	0	0	0
4/16/2024 21:53	42903	MIDD_T2	6	34	28	0.9	0.33	-0.57	0	0	0	0	0	0	0	0
4/16/2024 21:53	50506	MECH_T1	0	3	3	0	0.2	0.2	-0.27	-0.55	0	0	0	0	0	0
4/16/2024 21:53	56802	BENV_T2	75	219	144	0.16	0.34	0.18	-1.7	-1.7	0	0	0	0	0	0
4/16/2024 21:53	43102	SMIL_T2	8	9	1	0.54	0.88	0.34	-0.97	-0.97	1	1	0	600	600	0
4/16/2024 21:53	43103	SMIL_T2	18	21	3	0.33	0.66	0.33	0	0	0	0	0	0	0	0
4/16/2024 21:53	59003	MIFF_T1	1	1	0	0.4	0.7	0.3	0.35	0.3	0	0	0	0	0	0
4/16/2024 21:53	15702	TANN_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
4/16/2024 21:53	66503	SMAN_T2	6	0	-6	0.13	0	-0.13	0.4	0.35	0	0	0	0	0	0
4/16/2024 21:53	47401	PENS_T1	0	1	1	0	0.1	0.1	0.81	0.79	0	0	0	0	0	0
4/16/2024 21:53	55002	NEWP_T1	4	4	0	0.55	0.98	0.43	-0.29	-0.32	0	0	0	0	0	0
4/16/2024 21:53	67001	STHI_T2	131	515	384	0.16	0.24	0.08	0.04	0.02	0	0	0	0	0	0
4/16/2024 21:53	42902	MIDD_T2	87	141	54	0.3	0.35	0.05	-0.43	-0.51	0	0	0	0	0	0
4/16/2024 21:53	42901	MIDD_T2	172	242	70	0.24	0.37	0.13	0	0	0	0	0	0	0	0
4/16/2024 21:53	15703	TANN_T2	1	1	0	5.4	5.1	-0.3	0	0	0	0	0	0	0	0
4/16/2024 21:53	66505	SMAN_T2	3	3	0	1.17	0.6	-0.57	0	0	0	0	0	0	0	0
4/16/2024 21:53	55001	NEWP_T1	0	15	15	0	0.15	0.15	0	0	0	0	0	0	0	0
4/16/2024 21:53	14204	EALL_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
4/16/2024 21:53	46004	BERW_T2	0	0	0	0	0	0	-0.4	-0.51	0	0	0	0	0	0
4/16/2024 21:54	50501	MECH_T1	4	4	0	1.28	1.53	0.25	0	0	0	0	0	0	0	0
4/16/2024 21:54	66503	SMAN_T2	6	0	-6	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/16/2024 21:54	53502	EVIL_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
4/16/2024 21:54	54601	SUMM_T2	10	9	-1	0.18	0.51	0.33	-1.96	-1.97	2	2	0	2100	2100	0
4/16/2024 21:54	61303	EARL_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
4/16/2024 21:54	44301	BEAV_T2	0	0	0	0	0	0	0.52	0.33	1	1	0	600	600	0
4/16/2024 21:54	49804	UNIV_T1	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:54	50505	MECH_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:54	22101	EDEL_T2	0	0	0	0	0	0	0.35	0.35	1	1	0	1200	1200	0
4/16/2024 21:54	67002	STHI_T2	0	151	151	0	0.14	0.14	0.56	0.49	0	0	0	0	0	0
4/16/2024 21:54	23001	SAJO_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
4/16/2024 21:54	53501	EVIL_T2	2	3	1	0.95	0.83	-0.12	0	0	0	0	0	0	0	0
4/16/2024 21:54	42901	MIDD_T2	172	242	70	0.24	0.37	0.13	0	0	0	0	0	0	0	0
4/16/2024 21:54	67001	STHI_T2	131	515	384	0.16	0.24	0.08	0	0	0	0	0	0	0	0
4/16/2024 21:54	50502	MECH_T1	1	1	0	3.1	3.4	0.3	0	0	0	0	0	0	0	0
4/16/2024 21:54	52501	PROG_T1	0	0	0	0	0	0	0.34	0.33	1	1	0	300	300	0
4/16/2024 21:54	13105	NHAM_T2	0	0	0	0	0	0	-0.75	0.54	1	1	0	1200	1200	0
4/16/2024 21:54	66505	SMAN_T2	3	3	0	1.17	0.6	-0.57	-0.08	-0.06	2	2	0	1100	1100	0
4/16/2024 21:54	50506	MECH_T1	0	3	3	0	0.2	0.2	-0.14	-0.27	0	0	0	0	0	0
4/16/2024 21:54	13704	SCHN_T2	0	3	3	0	0.1	0.1	-0.43	-0.47	0	0	0	0	0	0
4/16/2024 21:54	57004	WHHI_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
4/16/2024 21:54	50504	MECH_T1	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
4/16/2024 21:54	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:54	66501	SMAN_T2	8	0	-8	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/16/2024 21:54	42902	MIDD_T2	87	141	54	0.3	0.35	0.05	-0.51	-0.51	0	0	0	0	0	0
4/16/2024 21:54	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:54	57006	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 21:54	42903	MIDD_T2	6	34	28	0.9	0.33	-0.57	0	0	0	0	0	0	0	0
4/16/2024 21:54	16201	POFA_T2	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/16/2024 21:54	49803	UNIV_T1	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
4/16/2024 21:54	67605	WARW_T1	14	37	23	0.44	0.47	0.03	0	0	0	0	0	0	0	0
4/16/2024 21:54	45702	LIND_T2	1	1	0	1	0.9	-0.1	-0.6	-0.6	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/16/2024 21:54	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:54	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/16/2024 21:54	45402	WBLO_T2	1	1	0	1.4	1.6	0.2	-0.95	-0.96	0	0	0	0	0	0
4/16/2024 21:54	44302	BEAV_T2	4	30	26	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/16/2024 21:54	15001	BLMO_T1	2	4	2	0.1	0.55	0.45	0	0	0	0	0	0	0	0
4/16/2024 21:54	67604	WARW_T1	0	0	0	0	0	0	0.58	-0.03	0	0	0	0	0	0
4/16/2024 21:54	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:54	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
4/16/2024 21:54	61801	EELI_T2	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
4/16/2024 21:54	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
4/16/2024 21:54	20401	ASHF_T2	0	2	2	0	0.15	0.15	-0.47	-0.46	0	0	0	0	0	0
4/16/2024 21:55	66703	STRA_T1	0	4	4	0	0.15	0.15	-0.44	-0.43	0	0	0	0	0	0
4/16/2024 21:55	43302	WATS_T2	4	4	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
4/16/2024 21:55	43801	SWIL_T1	2	3	1	3.3	2.27	-1.03	0	0	0	0	0	0	0	0
4/16/2024 21:55	59201	THOM_T1	1	20	19	0.1	0.29	0.19	0	0	0	0	0	0	0	0
4/16/2024 21:55	41801	GOCI_T2	127	186	59	0.28	0.38	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:55	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/16/2024 21:55	63302	GREE_T1	0	0	0	0	0	0	0.29	0.24	0	0	0	0	0	0
4/16/2024 21:55	57304	MOAL_T2	73	26	-47	0.57	0.23	-0.34	-0.45	-0.62	0	0	0	0	0	0
4/16/2024 21:55	43103	SMIL_T2	18	21	3	0.33	0.66	0.33	0	0	0	0	0	0	0	0
4/16/2024 21:55	41802	GOCI_T2	19	22	3	0.23	0.26	0.03	0	0	0	0	0	0	0	0
4/16/2024 21:55	57301	MOAL_T2	10	3	-7	0.38	0.17	-0.21	0	0	0	0	0	0	0	0
4/16/2024 21:55	43802	SWIL_T1	0	0	0	0	0	0	-0.22	-0.22	1	1	0	600	600	0
4/16/2024 21:55	63305	GREE_T1	1	5	4	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/16/2024 21:55	62606	ENGL_T1	0	1	1	0	0.1	0.1	-0.79	-0.7	1	1	0	900	900	0
4/16/2024 21:55	20403	ASHF_T2	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
4/16/2024 21:55	43304	WATS_T2	0	0	0	0	0	0	-0.53	-0.46	0	0	0	0	0	0
4/16/2024 21:55	41902	REED_T1	0	0	0	0	0	0	1.02	1.02	0	0	0	0	0	0
4/16/2024 21:55	42201	SHEN_T2	0	0	0	0	0	0	-0.05	-0.07	2	2	0	1200	1200	0
4/16/2024 21:55	58401	MORO_T1	0	0	0	0	0	0	-1.28	-1.29	1	1	0	600	600	0
4/16/2024 21:55	44302	BEAV_T2	4	30	26	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/16/2024 21:55	59202	THOM_T1	15	274	259	0.17	0.27	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:55	56802	BENV_T2	75	219	144	0.16	0.34	0.18	-1.7	-1.7	0	0	0	0	0	0
4/16/2024 21:55	44201	POIN_T1	624	666	42	0.42	0.43	0.01	-2.4	-2.4	2	2	0	2100	2100	0
4/16/2024 21:55	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:55	43102	SMIL_T2	8	9	1	0.54	0.88	0.34	-0.97	-0.97	1	1	0	600	600	0
4/16/2024 21:55	52502	PROG_T2	0	0	0	0	0	0	0.44	-1.45	0	2	2	0	1800	1800
4/16/2024 21:55	41901	REED_T1	6	8	2	0.22	0.29	0.07	0	0	0	0	0	0	0	0
4/16/2024 21:55	57303	MOAL_T2	1	1	0	6.5	6.9	0.4	0	0	0	0	0	0	0	0
4/16/2024 21:55	44301	BEAV_T2	0	0	0	0	0	0	0.52	0.33	1	1	0	600	600	0
4/16/2024 21:56	57006	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/16/2024 21:56	46203	DANV_T2	9	34	25	0.13	0.19	0.06	0	0	0	0	0	0	0	0
4/16/2024 21:56	52006	LING_T2	3	3	0	1.03	1.17	0.14	0	0	0	0	0	0	0	0
4/16/2024 21:56	43302	WATS_T2	4	4	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
4/16/2024 21:56	42002	MNVL_T2	1	1	0	2	1.8	-0.2	0.07	0.04	0	0	0	0	0	0
4/16/2024 21:56	52004	LING_T2	1	1	0	0.3	0.5	0.2	0.1	0.08	0	0	0	0	0	0
4/16/2024 21:56	42901	MIDD_T2	172	242	70	0.24	0.37	0.13	0	0	0	0	0	0	0	0
4/16/2024 21:56	55105	WERT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/16/2024 21:56	57004	WHHI_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
4/16/2024 21:56	43301	WATS_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
4/16/2024 21:56	42902	MIDD_T2	87	141	54	0.3	0.35	0.05	-0.51	-0.51	0	0	0	0	0	0
4/16/2024 21:56	45801	HEGI_T1	0	0	0	0	0	0	-0.2	-0.24	1	1	0	900	900	0
4/16/2024 21:56	42001	MNVL_T2	0	103	103	0	0.17	0.17	0	0	0	0	0	0	0	0
4/16/2024 21:56	52002	LING_T2	1	1	0	1.7	1.3	-0.4	0	0	0	0	0	0	0	0
4/16/2024 21:56	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
4/16/2024 21:56	46206	DANV_T2	0	0	0	0	0	0	1.91	1.93	0	0	0	0	0	0
4/16/2024 21:56	57401	SPAN_T1	2	2	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
4/16/2024 21:56	60102	COCA_T1	0	0	0	0	0	0	0.9	0.79	1	1	0	600	600	0
4/16/2024 21:56	56802	BENV_T2	75	219	144	0.16	0.34	0.18	-0.85	-0.85	0	0	0	0	0	0
4/16/2024 21:56	44201	POIN_T1	624	666	42	0.42	0.43	0.01	-2.4	-2.4	2	2	0	2100	2100	0
4/16/2024 21:56	42903	MIDD_T2	6	34	28	0.9	0.33	-0.57	0	0	0	0	0	0	0	0
4/16/2024 21:56	57403	SPAN_T1	62	147	85	0.26	0.4	0.14	-0.07	-0.09	0	0	0	0	0	0
4/16/2024 21:56	52502	PROG_T2	0	0	0	0	0	0	0.22	-0.72	0	1	1	0	900	900
4/16/2024 21:56	27603	PIRI_T2	0	0	0	0	0	0	-1.11	-1.12	2	2	0	1800	1800	0
4/16/2024 21:56	16201	POFA_T2	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/16/2024 21:56	15001	BLMO_T1	2	4	2	0.1	0.55	0.45	0	0	0	0	0	0	0	0
4/16/2024 21:57	46001	BERW_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
4/16/2024 21:57	13704	SOHN_T2	0	3	3	0	0.1	0.1	-0.43	-0.47	0	0	0	0	0	0
4/16/2024 21:57	44201	POIN_T1	624	666	42	0.42	0.43	0.01	-2.4	-2.4	2	2	0	2100	2100	0
4/16/2024 21:57	58401	MORO_T1	0	0	0	0	0	0	-1.28	-1.29	1	1	0	600	600	0
4/16/2024 21:58	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:58	67805	WLAN_T1	467	499	32	0.27	0.36	0.09	-1.52	-1.53	0	0	0	0	0	0
4/16/2024 21:58	44302	BEAV_T2	4	30	26	0.1	0.14	0.04	0.24	0.23	0	0	0	0	0	0
4/16/2024 21:58	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:58	51204	MTON_T2	0	0	0	0	0	0	0.13	-0.81	0	1	1	0	900	900
4/16/2024 21:58	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
4/16/2024 21:58	67801	WLAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:58	67802	WLAN_T1	6	23	17	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/16/2024 21:58	67804	WLAN_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 21:58	43301	WATS_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
4/16/2024 21:58	43302	WATS_T2	4	4	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
4/16/2024 21:58	67803	WLAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/16/2024 21:58	59101	WALK_T2	0	0	0	0	0	0	1.44	1.4	0	0	0	0	0	0
4/16/2024 21:59	42903	MIDD_T2	6	34	28	0.9	0.33	-0.57	0	0	0	0	0	0	0	0
4/16/2024 21:59	42902	MIDD_T2	87	141	54	0.3	0.35	0.05	-0.51	-0.51	0	0	0	0	0	0
4/16/2024 21:59	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 21:59	42901	MIDD_T2	172	242	70	0.24	0.37	0.13	0	0	0	0	0	0	0	0
4/16/2024 22:00	67402	WAKE_T2	0	0	0	0	0	0	-0.51	-0.54	1	1	0	600	600	0
4/16/2024 22:01	42802	SELI_T1	1	1	0	0.4	0.4	0	-0.12	-0.13	0	0	0	0	0	0
4/16/2024 22:01	53901	HALI_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
4/16/2024 22:01	53903	HALI_T2	2	2	0	1.65	1.2	-0.45	0	0	0	0	0	0	0	0
4/16/2024 22:01	60101	COCA_T1	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
4/16/2024 22:01	53902	HALI_T2	1	1	0	5.8	5.7	-0.1	-0.31	-0.32	0	0	0	0	0	0
4/16/2024 22:02	47101	MARL_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
4/16/2024 22:12	51402	LYKE_T1	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
4/16/2024 22:21	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2024 22:28	66303	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 22:28	66302	MCGO_T2	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
4/16/2024 22:37	16301	ALPA_T1	23	143	120	0.14	0.16	0.02	-0.52	-0.53	0	0	0	0	0	0
4/16/2024 22:41	29402	BELT_T1	1	1	0	7.4	7.9	0.5	0	0	0	0	0	0	0	0
4/16/2024 23:07	50501	MECH_T1	4	4	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
4/16/2024 23:07	50502	MECH_T1	1	1	0	2.5	2.1	-0.4	0	0	0	0	0	0	0	0
4/16/2024 23:07	50505	MECH_T1	0	0	0	0	0	0	-0.96	-0.94	0	0	0	0	0	0
4/16/2024 23:44	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/16/2024 23:44	62102	ELAN_T1	0	0	0	0	0	0	0.47	0.42	0	0	0	0	0	0
4/16/2024 23:55	67803	WLAN_T1	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
4/17/2024 1:05	40902	JESH_T1	0	0	0	0	0	0	-1.1	-1.11	0	0	0	0	0	0
4/17/2024 1:53	52002	LING_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/17/2024 1:53	52004	LING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 1:53	52006	LING_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/17/2024 1:55	24802	VALM_T1	0	0	0	0	0	0	2.62	2.97	0	0	0	0	0	0
4/17/2024 2:17	44302	BEAV_T2	499	549	50	0.66	0.77	0.11	0.23	0.23	0	0	0	0	0	0
4/17/2024 2:17	44301	BEAV_T2	9	14	5	0.53	0.53	0	0	0	0	0	0	0	0	0
4/17/2024 3:35	56501	ROCK_T2	4	5	1	0.5	0.54	0.04	0	0	0	0	0	0	0	0
4/17/2024 3:35	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 3:50	54602	SUMM_T2	5	3	-2	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
4/17/2024 3:50	54601	SUMM_T2	12	12	0	0.75	0.64	-0.11	-2.04	-2.04	2	2	0	2100	2100	0
4/17/2024 6:55	15001	BLMO_T1	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
4/17/2024 7:02	48302	ORWI_T2	2	2	0	1.95	1.9	-0.05	-0.04	-0.04	0	0	0	0	0	0
4/17/2024 7:17	48302	ORWI_T2	2	2	0	1.9	1.8	-0.1	-0.04	-0.03	0	0	0	0	0	0
4/17/2024 7:25	45901	AUBU_T1	0	0	0	0	0	0	1.69	1.62	0	0	0	0	0	0
4/17/2024 7:28	46801	HEPB_T2	0	2	2	0	0.4	0.4	0.45	0.5	0	0	0	0	0	0
4/17/2024 7:32	45702	LIND_T2	1	1	0	0.3	0.9	0.6	-0.49	-0.46	0	0	0	0	0	0
4/17/2024 7:34	15203	SFAR_T2	0	0	0	0	0	0	-1.63	-1.6	0	0	0	0	0	0
4/17/2024 7:35	67605	WARW_T1	26	26	0	0.75	0.67	-0.08	-1.15	-1.14	0	0	0	0	0	0
4/17/2024 7:36	67804	WLAN_T1	0	0	0	0	0	0	-2.38	-2.36	0	0	0	0	0	0
4/17/2024 7:40	67605	WARW_T1	26	26	0	0.75	0.67	-0.08	-1.14	-1.11	0	0	0	0	0	0
4/17/2024 7:40	62605	ENGL_T1	0	0	0	0	0	0	-0.91	-0.87	0	0	0	0	0	0
4/17/2024 7:42	62605	ENGL_T1	0	0	0	0	0	0	-0.91	-0.87	0	0	0	0	0	0
4/17/2024 7:44	11201	ELHE_T2	0	0	0	0	0	0	-0.55	-0.53	2	2	0	2400	2400	0
4/17/2024 7:44	62605	ENGL_T1	0	0	0	0	0	0	-0.91	-0.87	0	0	0	0	0	0
4/17/2024 7:49	14603	SWHI_T1	0	0	0	0	0	0	-1.08	-1.14	1	1	0	600	600	0
4/17/2024 7:49	24902	WHHA_T1	50	62	12	0.55	0.91	0.36	0	0	0	0	0	0	0	0
4/17/2024 7:52	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 7:52	62605	ENGL_T1	0	0	0	0	0	0	-0.91	-0.87	0	0	0	0	0	0
4/17/2024 7:56	67504	WEWI_T1	0	0	0	0	0	0	-0.41	-0.31	1	1	0	900	900	0
4/17/2024 7:56	67501	WEWI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 7:58	40101	HUNT_T2	0	0	0	0	0	0	-0.24	-0.15	0	0	0	0	0	0
4/17/2024 7:59	45702	LIND_T2	1	1	0	0.9	0.9	0	-0.43	-0.44	0	0	0	0	0	0
4/17/2024 7:59	41801	GOCI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 7:59	62605	ENGL_T1	0	0	0	0	0	0	-0.87	-0.89	0	0	0	0	0	0
4/17/2024 7:59	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 7:59	41802	GOCI_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 8:01	45702	LIND_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
4/17/2024 8:01	45701	LIND_T2	0	0	0	0	0	0	-0.91	-0.99	0	0	0	0	0	0
4/17/2024 8:03	64904	MILL_T1	1	0	-1	0.8	0	-0.8	0.42	0.37	0	0	0	0	0	0
4/17/2024 8:06	ELAN_T1	0	0	0	0	0	0	0.44	0.4	4	4	0	3000	3000	0
4/17/2024 8:09	67501	WEWI_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/17/2024 8:09	67504	WEWI_T1	0	0	0	0	0	0	-0.31	-0.38	1	1	0	900	900	0
4/17/2024 8:11	67501	WEWI_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/17/2024 8:11	67504	WEWI_T1	0	0	0	0	0	0	-0.31	-0.38	1	1	0	900	900	0
4/17/2024 8:12	41502	FAIR_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
4/17/2024 8:13	10801	CHHI_T1	0	18	18	0	0.18	0.18	-1.32	-1.33	2	2	0	1500	1500	0
4/17/2024 8:14	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 8:14	62607	ENGL_T1	0	0	0	0	0	0	-1.23	-1.23	1	1	0	300	300	0
4/17/2024 8:15	45702	LIND_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
4/17/2024 8:15	40101	HUNT_T2	0	0	0	0	0	0	-0.15	-0.11	0	0	0	0	0	0
4/17/2024 8:15	45701	LIND_T2	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
4/17/2024 8:20	52502	PROG_T2	0	0	0	0	0	0	0.32	0.39	0	0	0	0	0	0
4/17/2024 8:24	15001	BLMO_T1	1	4	3	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/17/2024 8:26	56803	BENV_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/17/2024 8:26	56801	BENV_T1	24	30	6	1.31	1.24	-0.07	-1.82	-1.86	2	2	0	1200	1200	0
4/17/2024 8:26	53903	HALI_T2	2	2	0	1.3	1.5	0.2	-0.21	-0.22	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/17/2024 8:26	53901	HALI_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
4/17/2024 8:26	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
4/17/2024 8:27	53901	HALI_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
4/17/2024 8:27	53903	HALI_T2	2	2	0	1.3	1.5	0.2	-0.21	-0.22	0	0	0	0	0	0
4/17/2024 8:27	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
4/17/2024 8:31	53903	HALI_T2	2	5	3	1.5	0.9	-0.6	-0.21	-0.22	0	0	0	0	0	0
4/17/2024 8:31	53902	HALI_T2	1	2	1	5.8	3.35	-2.45	0	0	0	0	0	0	0	0
4/17/2024 8:31	55002	NEWP_T1	5	5	0	0.58	0.74	0.16	-0.28	-0.27	0	0	0	0	0	0
4/17/2024 8:31	53901	HALI_T2	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
4/17/2024 8:32	55002	NEWP_T1	5	5	0	0.58	0.74	0.16	-0.28	-0.27	0	0	0	0	0	0
4/17/2024 8:32	53902	HALI_T2	1	2	1	5.8	3.35	-2.45	0	0	0	0	0	0	0	0
4/17/2024 8:32	53901	HALI_T2	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
4/17/2024 8:32	53903	HALI_T2	2	5	3	1.5	0.9	-0.6	-0.21	-0.22	0	0	0	0	0	0
4/17/2024 8:33	55002	NEWP_T1	5	5	0	0.58	0.74	0.16	-0.28	-0.27	0	0	0	0	0	0
4/17/2024 8:33	13302	ORVI_T2	0	0	0	0	0	0	0.88	0.87	0	0	0	0	0	0
4/17/2024 8:35	12102	SALL_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
4/17/2024 8:37	56802	BENV_T2	231	353	122	0.5	0.52	0.02	-1.49	-1.5	0	0	0	0	0	0
4/17/2024 8:39	56802	BENV_T2	231	353	122	0.5	0.52	0.02	-1.5	-1.5	0	0	0	0	0	0
4/17/2024 8:40	56802	BENV_T2	231	353	122	0.5	0.52	0.02	-1.5	-1.5	0	0	0	0	0	0
4/17/2024 8:41	56802	BENV_T2	231	353	122	0.5	0.52	0.02	-1.5	-1.5	0	0	0	0	0	0
4/17/2024 8:42	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.65	-0.62	1	1	0	600	600	0
4/17/2024 8:43	62607	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 8:43	62605	ENGL_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
4/17/2024 8:45	62607	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 8:45	62605	ENGL_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
4/17/2024 8:46	62605	ENGL_T1	0	0	0	0	0	0	-1.63	-1.67	0	0	0	0	0	0
4/17/2024 8:46	62607	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 8:49	46301	ROHR_T1	273	267	-6	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
4/17/2024 8:49	46302	ROHR_T1	138	145	7	0.29	0.31	0.02	0.13	0.14	0	0	0	0	0	0
4/17/2024 8:50	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 8:50	15702	TANN_T2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
4/17/2024 8:50	15703	TANN_T2	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
4/17/2024 8:50	60602	NCOL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/17/2024 8:51	15702	TANN_T2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
4/17/2024 8:51	15703	TANN_T2	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
4/17/2024 8:52	56801	BENV_T1	29	18	-11	1.13	1.06	-0.07	-0.93	-0.35	1	0	-1	600	0	-600
4/17/2024 8:52	67605	WARW_T1	14	26	12	0.62	0.63	0.01	-1.12	-1.11	0	0	0	0	0	0
4/17/2024 8:52	46301	ROHR_T1	273	267	-6	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
4/17/2024 8:52	46302	ROHR_T1	138	145	7	0.29	0.31	0.02	0.13	0.14	0	0	0	0	0	0
4/17/2024 8:52	56803	BENV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/17/2024 8:53	56802	BENV_T2	207	380	173	0.26	0.54	0.28	-1.5	-1.54	0	0	0	0	0	0
4/17/2024 8:54	45902	AUBU_T1	0	1	1	0	0.1	0.1	-1.25	-1.3	2	2	0	1200	1200	0
4/17/2024 8:55	64801	MONE_T2	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
4/17/2024 8:55	64802	MONE_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
4/17/2024 8:56	56802	BENV_T2	207	380	173	0.26	0.54	0.28	-1.5	-1.54	0	0	0	0	0	0
4/17/2024 8:59	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.62	-0.65	1	1	0	600	600	0
4/17/2024 9:00	67605	WARW_T1	23	25	2	0.68	0.61	-0.07	-1.11	-1.06	0	0	0	0	0	0
4/17/2024 9:01	51002	NHAR_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/17/2024 9:01	60502	NMAN_T2	0	1	1	0	0.1	0.1	-0.26	-0.27	0	0	0	0	0	0
4/17/2024 9:01	60504	NMAN_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
4/17/2024 9:01	51004	NHAR_T1	13	13	0	1.02	0.88	-0.14	-0.48	-0.46	0	0	0	0	0	0
4/17/2024 9:01	60501	NMAN_T2	3	45	42	5.43	0.59	-4.84	0	0	0	0	0	0	0	0
4/17/2024 9:03	58402	MORO_T1	0	0	0	0	0	0	-0.2	-0.21	2	2	0	1500	1500	0
4/17/2024 9:04	58402	MORO_T1	0	0	0	0	0	0	-0.2	-0.21	2	2	0	1500	1500	0
4/17/2024 9:05	67605	WARW_T1	23	25	2	0.68	0.61	-0.07	-1.11	-1.06	0	0	0	0	0	0
4/17/2024 9:06	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-0.62	-0.65	1	1	0	600	600	0
4/17/2024 9:06	67703	WEIN_T2	0	0	0	0	0	0	-0.37	-0.34	1	1	0	900	900	0
4/17/2024 9:07	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-0.62	-0.65	1	1	0	600	600	0
4/17/2024 9:09	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-0.65	-0.66	1	1	0	600	600	0
4/17/2024 9:10	67605	WARW_T1	23	25	2	0.68	0.61	-0.07	-1.06	-1.11	0	0	0	0	0	0
4/17/2024 9:10	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-0.65	-0.66	1	1	0	600	600	0
4/17/2024 9:11	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-0.65	-0.66	1	1	0	600	600	0
4/17/2024 9:13	64704	LITI_T1	0	0	0	0	0	0	0.44	0.35	1	1	0	600	600	0
4/17/2024 9:13	64702	LITI_T2	0	0	0	0	0	0	-0.77	-0.65	0	0	0	0	0	0
4/17/2024 9:15	67605	WARW_T1	24	15	-9	0.61	0.69	0.08	-1.06	-1.11	0	0	0	0	0	0
4/17/2024 9:15	45902	AUBU_T1	0	0	0	0	0	0	-0.65	-0.66	1	1	0	600	600	0
4/17/2024 9:16	64704	LITI_T1	0	0	0	0	0	0	0.44	0.35	1	1	0	600	600	0
4/17/2024 9:17	64702	LITI_T2	0	0	0	0	0	0	-0.77	-0.65	0	0	0	0	0	0
4/17/2024 9:17	13302	ORVI_T2	1	1	0	0.1	0.3	0.2	0.99	1.04	0	0	0	0	0	0
4/17/2024 9:18	66502	SMAN_T2	12	3	-9	0.35	0.17	-0.18	0.34	0.32	0	0	0	0	0	0
4/17/2024 9:18	66501	SMAN_T2	5	4	-1	0.28	0.38	0.1	0	0	0	0	0	0	0	0
4/17/2024 9:18	64702	LITI_T2	0	0	0	0	0	0	-0.77	-0.65	0	0	0	0	0	0
4/17/2024 9:18	66505	SMAN_T2	2	2	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/17/2024 9:18	66504	SMAN_T2	3	1	-2	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/17/2024 9:19	66504	SMAN_T2	3	1	-2	0.4	0.1	-0.3	-0.48	-0.47	0	0	0	0	0	0
4/17/2024 9:19	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
4/17/2024 9:19	12101	SALL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 9:19	66505	SMAN_T2	2	2	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/17/2024 9:19	66502	SMAN_T2	12	3	-9	0.35	0.17	-0.18	0.34	0.32	0	0	0	0	0	0
4/17/2024 9:19	66501	SMAN_T2	5	4	-1	0.28	0.38	0.1	0	0	0	0	0	0	0	0
4/17/2024 9:19	12102	SALL_T2	0	1	1	0	0.3	0.3	0	0.03	0	0	0	0	0	0
4/17/2024 9:20	66501	SMAN_T2	5	4	-1	0.28	0.38	0.1	0	0	0	0	0	0	0	0
4/17/2024 9:20	11404	FARM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 9:20	66502	SMAN_T2	12	3	-9	0.35	0.17	-0.18	0.34	0.32	0	0	0	0	0	0
4/17/2024 9:20	66505	SMAN_T2	2	2	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/17/2024 9:20	66504	SMAN_T2	3	1	-2	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/17/2024 9:20	12101	SALL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 9:20	12102	SALL_T2	0	1	1	0	0.3	0.3	0	0.03	0	0	0	0	0	0
4/17/2024 9:20	67605	WARW_T1	24	15	-9	0.61	0.69	0.08	-1.06	-1.11	0	0	0	0	0	0
4/17/2024 9:20	11401	FARM_T1	0	0	0	0	0	0	0.42	0.47	0	0	0	0	0	0
4/17/2024 9:21	66504	SMAN_T2	3	1	-2	0.4	0.1	-0.3	-0.96	-0.93	0	0	0	0	0	0
4/17/2024 9:21	66501	SMAN_T2	5	4	-1	0.28	0.38	0.1	0	0	0	0	0	0	0	0
4/17/2024 9:21	66502	SMAN_T2	12	3	-9	0.35	0.17	-0.18	0.34	0.32	0	0	0	0	0	0
4/17/2024 9:21	66505	SMAN_T2	2	2	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/17/2024 9:22	66505	SMAN_T2	2	2	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/17/2024 9:22	66504	SMAN_T2	3	1	-2	0.4	0.1	-0.3	-0.96	-0.93	0	0	0	0	0	0
4/17/2024 9:22	66502	SMAN_T2	12	3	-9	0.35	0.17	-0.18	0.68	0.64	0	0	0	0	0	0
4/17/2024 9:22	66501	SMAN_T2	5	4	-1	0.28	0.38	0.1	0	0	0	0	0	0	0	0
4/17/2024 9:23	67605	WARW_T1	24	15	-9	0.61	0.69	0.08	-1.11	-1.12	0	0	0	0	0	0
4/17/2024 9:23	15001	BLMO_T1	4	4	0	0.2	0.48	0.28	0	0	0	0	0	0	0	0
4/17/2024 9:24	66501	SMAN_T2	5	4	-1	0.28	0.38	0.1	0	0	0	0	0	0	0	0
4/17/2024 9:24	66505	SMAN_T2	2	2	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/17/2024 9:24	15001	BLMO_T1	4	4	0	0.2	0.48	0.28	0	0	0	0	0	0	0	0
4/17/2024 9:24	66502	SMAN_T2	12	3	-9	0.35	0.17	-0.18	0.32	0.26	0	0	0	0	0	0
4/17/2024 9:24	66504	SMAN_T2	3	1	-2	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/17/2024 9:25	46504	LOHA_T1	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
4/17/2024 9:25	46502	LOHA_T1	0	0	0	0	0	0	-1.38	-1.37	1	1	0	1200	1200	0
4/17/2024 9:25	67605	WARW_T1	24	15	-9	0.61	0.69	0.08	-1.11	-1.12	0	0	0	0	0	0
4/17/2024 9:25	46506	LOHA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/17/2024 9:30	67605	WARW_T1	15	15	0	0.69	0.59	-0.1	-1.11	-1.12	0	0	0	0	0	0
4/17/2024 9:31	60901	DONG_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/17/2024 9:31	60903	DONG_T2	0	0	0	0	0	0	0.65	0.52	1	1	0	600	600	0
4/17/2024 9:32	13503	MCMI_T2	1	1	0	0.4	0.1	-0.3	-0.01	-0.01	0	0	0	0	0	0
4/17/2024 9:33	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 9:34	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 9:34	14404	SSLA_T1	1	2	1	5.8	3.15	-2.65	-0.05	-0.04	0	0	0	0	0	0
4/17/2024 9:34	14403	SSLA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/17/2024 9:34	14401	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 9:34	66502	MOJO_T2	0	0	0	0	0	0	-0.17	-0.37	0	0	0	0	0	0
4/17/2024 9:34	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 9:35	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 9:36	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 9:37	13701	SCHN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 9:37	13704	SCHN_T2	1	0	-1	0.2	0.2	0	0.39	0.36	0	0	0	0	0	0
4/17/2024 9:38	14401	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 9:38	14404	SSLA_T1	1	2	1	5.8	3.15	-2.65	0	0	0	0	0	0	0	0
4/17/2024 9:38	20403	ASHF_T2	0	9	9	0	0.47	0.47	-0.02	0.07	0	0	0	0	0	0
4/17/2024 9:38	14403	SSLA_T1	1	0	-1	0.2	0	-0.2	1.12	1.12	0	0	0	0	0	0
4/17/2024 9:38	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 9:38	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 9:39	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 9:39	14404	SSLA_T1	1	2	1	5.8	3.15	-2.65	-0.04	-0.03	0	0	0	0	0	0
4/17/2024 9:39	14401	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 9:39	14403	SSLA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/17/2024 9:40	67605	WARW_T1	15	15	0	0.69	0.59	-0.1	-1.12	-1.12	0	0	0	0	0	0
4/17/2024 9:40	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 9:40	20403	ASHF_T2	0	9	9	0	0.47	0.47	-0.02	0.07	0	0	0	0	0	0
4/17/2024 9:45	67605	WARW_T1	15	13	-2	0.59	0.45	-0.14	-1.12	-1.12	0	0	0	0	0	0
4/17/2024 9:47	65702	RVIL_T2	0	0	0	0	0	0	-0.98	-0.99	1	1	0	600	600	0
4/17/2024 9:47	60502	NMAN_T2	0	0	0	0	0	0	-0.34	-0.29	0	0	0	0	0	0
4/17/2024 9:47	60501	NMAN_T2	8	3	-5	2.01	5.03	3.02	0	0	0	0	0	0	0	0
4/17/2024 9:48	65702	RVIL_T2	0	0	0	0	0	0	-0.98	-0.99	1	1	0	600	600	0
4/17/2024 9:51	65702	RVIL_T2	0	0	0	0	0	0	-0.98	-0.99	1	1	0	600	600	0
4/17/2024 9:52	15603	NSTR_T2	1	1	0	0.1	0.2	0.1	-0.76	-0.72	0	0	0	0	0	0
4/17/2024 9:52	15601	NSTR_T2	3	3	0	0.97	0.77	-0.2	0	0	0	0	0	0	0	0
4/17/2024 9:53	42701	AUGU_T1	1	1	0	1	1	0	0	0	4	4	0	3600	3600	0
4/17/2024 9:54	10805	CHHI_T2	2	3	1	4.85	4.85	0	-0.48	-0.8	3	3	0	1800	1800	0
4/17/2024 9:55	67605	WARW_T1	15	13	-2	0.59	0.45	-0.14	-1.12	-1.16	0	0	0	0	0	0
4/17/2024 10:00	12807	MICK_T1	1	1	0	0.5	0.6	0.1	0.18	0.16	0	0	0	0	0	0
4/17/2024 10:00	50501	MECH_T1	4	4	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/17/2024 10:00	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/17/2024 10:00	54602	SUMM_T2	0	0	0	0	0	0	-2.51	-2.48	1	1	0	600	600	0
4/17/2024 10:00	25603	ARRO_T1	0	0	0	0	0	0	-0.17	-0.22	0	0	0	0	0	0
4/17/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-0.95	-0.98	0	0	0	0	0	0
4/17/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.75	0.85	0	0	0	0	0	0
4/17/2024 10:00	22102	EDEL_T1	0	0	0	0	0	0	-0.33	-0.34	1	1	0	1200	1200	0
4/17/2024 10:00	45602	WOOL_T1	2	2	0	0.6	0.45	-0.15	0.42	0.41	0	0	0	0	0	0
4/17/2024 10:00	67002	STHI_T2	0	2	2	0	0.2	0.2	0.62	0.59	0	0	0	0	0	0
4/17/2024 10:00	53901	HALI_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/17/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	-0.36	-0.45	1	1	0	600	600	0
4/17/2024 10:00	50505	MECH_T1	0	0	0	0	0	0	-0.91	-0.88	0	0	0	0	0	0
4/17/2024 10:00	56603	HAMP_T1	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
4/17/2024 10:00	16102	BING_T2	0	0	0	0	0	0	1.02	0.98	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/17/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	0.95	1.01	0	0	0	0	0	0
4/17/2024 10:00	50502	MECH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
4/17/2024 10:00	53501	EVIL_T2	2	1	-1	0.45	0.4	-0.05	0.1	-0.42	0	1	1	0	600	600
4/17/2024 10:00	22405	MORG_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
4/17/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
4/17/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-0.67	-0.68	1	1	0	600	600	0
4/17/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-0.53	-0.55	1	1	0	1200	1200	0
4/17/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	0.66	0.82	2	2	0	1800	1800	0
4/17/2024 10:00	40505	CRES_T1	3	3	0	5.67	5.53	-0.14	0.43	0.44	0	0	0	0	0	0
4/17/2024 10:00	60803	BUCK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 10:00	10801	CHHI_T1	2	0	-2	0.35	0	-0.35	-0.79	-0.84	1	1	0	900	900	0
4/17/2024 10:00	64904	MILL_T1	0	0	0	0	0	0	0.34	0.39	0	0	0	0	0	0
4/17/2024 10:00	17002	RIRO_T2	1	3	2	0.4	0.3	-0.1	0.61	0.62	0	0	0	0	0	0
4/17/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-1.34	-1.31	2	2	0	2100	2100	0
4/17/2024 10:00	51004	NHAR_T1	7	2	-5	1.07	3.2	2.13	0	0	0	0	0	0	0	0
4/17/2024 10:00	60501	NMAN_T2	3	3	0	4.93	5.23	0.3	0	0	0	0	0	0	0	0
4/17/2024 10:00	40101	HUNT_T2	0	1	1	0	0	0	-0.29	-0.56	0	0	0	0	0	0
4/17/2024 10:00	62605	ENGL_T1	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
4/17/2024 10:00	60101	COCA_T1	0	0	0	0	0	0	0.17	0.2	0	0	0	0	0	0
4/17/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
4/17/2024 10:00	53903	HALI_T2	2	2	0	1.2	1.4	0.2	-0.22	-0.22	0	0	0	0	0	0
4/17/2024 10:00	64801	MONE_T2	1	1	0	0.5	0.8	0.3	0.17	0.17	0	0	0	0	0	0
4/17/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
4/17/2024 10:00	54601	SUMM_T2	12	12	0	0.45	0.36	-0.09	0	0	0	0	0	0	0	0
4/17/2024 10:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 10:00	58003	WCAR_T1	0	0	0	0	0	0	0.15	0.1	1	1	0	600	600	0
4/17/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.69	0.64	0	0	0	0	0	0
4/17/2024 10:00	48302	ORWI_T2	2	2	0	1.55	1.45	-0.1	-0.05	-0.02	0	0	0	0	0	0
4/17/2024 10:00	10504	CRAC_T1	0	0	0	0	0	0	1.08	1.1	0	0	0	0	0	0
4/17/2024 10:00	22401	MORG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 10:00	65702	RVIL_T2	0	0	0	0	0	0	-0.99	-1.05	1	1	0	600	600	0
4/17/2024 10:00	56601	HAMP_T1	0	0	0	0	0	0	-1.87	-1.91	0	0	0	0	0	0
4/17/2024 10:00	54001	SDLE_T1	4	3	-1	0.73	0.83	0.1	0	0	1	1	0	600	600	0
4/17/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	-0.01	0	1	1	0	600	600	0
4/17/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
4/17/2024 10:00	67605	WARW_T1	12	13	1	0.46	0.47	0.01	-1.12	-1.16	0	0	0	0	0	0
4/17/2024 10:00	42903	MIDD_T2	1	0	-1	0.1	0	-0.1	0.22	0.11	1	1	0	1200	1200	0
4/17/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.38	0.38	1	1	0	600	600	0
4/17/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	0.48	0.17	1	1	0	1200	1200	0
4/17/2024 10:00	58102	NEK_T1	1	1	0	1.3	1.4	0.1	-1.04	-1.08	1	1	0	1200	1200	0
4/17/2024 10:00	40901	JESH_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/17/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.04	0.04	0	0	0	0	0	0
4/17/2024 10:00	50503	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	-0.2	-0.26	0	0	0	0	0	0
4/17/2024 10:00	45502	DERR_T2	1	3	2	0.2	0.7	0.5	0	0	0	0	0	0	0	0
4/17/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.04	-0.07	1	1	0	600	600	0
4/17/2024 10:00	10805	CHHI_T2	2	3	1	4.95	4.5	-0.45	-0.16	-0.27	1	1	0	600	600	0
4/17/2024 10:00	16103	BING_T2	23	0	-23	5.05	0	-5.05	0	0	0	0	0	0	0	0
4/17/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	-0.67	-0.55	2	2	0	1200	1200	0
4/17/2024 10:00	51002	NHAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 10:00	14603	SWHI_T1	2	1	-1	0.15	0.6	0.45	0	0	0	0	0	0	0	0
4/17/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
4/17/2024 10:00	16101	BING_T2	1	1	0	9.5	9.3	-0.2	0.29	0.28	0	0	0	0	0	0
4/17/2024 10:00	58803	COCO_T1	1	1	0	2.1	2.4	0.3	0	0	0	0	0	0	0	0
4/17/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
4/17/2024 10:00	67001	STHI_T2	0	147	147	0	0.13	0.13	0	0	0	0	0	0	0	0
4/17/2024 10:00	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
4/17/2024 10:00	44601	SALE_T2	0	0	0	0	0	0	0.14	1.63	2	4	2	1200	1800	600
4/17/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.87	-1.09	0	0	0	0	0	0
4/17/2024 10:06	56501	ROCK_T2	2	2	0	0.15	0.15	0	-0.01	-0.01	0	0	0	0	0	0
4/17/2024 10:06	50701	SMEC_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
4/17/2024 10:07	53501	EVIL_T2	2	1	-1	0.45	0.4	-0.05	0.19	-0.84	0	2	2	0	1200	1200
4/17/2024 10:07	45902	AUBU_T1	1	1	0	0.4	0.7	0.3	-0.62	-0.68	1	1	0	600	600	0
4/17/2024 10:07	58402	MORO_T1	0	0	0	0	0	0	-0.21	-0.19	2	2	0	1500	1500	0
4/17/2024 10:07	24104	EHAZ_T1	45	25	-20	0.14	0.14	0	0	0	0	0	0	0	0	0
4/17/2024 10:07	67605	WARW_T1	12	13	1	0.46	0.47	0.01	0	0	0	0	0	0	0	0
4/17/2024 10:07	57101	SPHI_T2	6	6	0	1	0.98	-0.02	0	0	0	0	0	0	0	0
4/17/2024 10:07	57104	SPHI_T2	0	0	0	0	0	0	-1.17	-1.19	1	1	0	900	900	0
4/17/2024 10:07	45702	LIND_T2	1	1	0	1.5	1.3	-0.2	-0.4	-0.42	0	0	0	0	0	0
4/17/2024 10:07	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 10:07	60801	BUCK_T1	0	0	0	0	0	0	-0.72	-0.89	2	2	0	1200	1200	0
4/17/2024 10:07	24105	EHAZ_T1	4	4	0	6.13	6.1	-0.03	-0.73	-0.79	1	1	0	1200	1200	0
4/17/2024 10:07	42302	MOWR_T2	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
4/17/2024 10:07	57106	SPHI_T2	2	2	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
4/17/2024 10:07	60803	BUCK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 10:07	15103	UPHA_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
4/17/2024 10:07	63306	GREE_T1	0	0	0	0	0	0	-1.19	-1.17	0	0	0	0	0	0
4/17/2024 10:07	62604	ENGL_T1	0	0	0	0	0	0	-0.14	-0.27	1	1	0	600	600	0
4/17/2024 10:07	40201	BEGA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/17/2024 10:07	67603	WARW_T1	0	0	0	0	0	0	-0.1	-0.07	0	0	0	0	0	0
4/17/2024 10:07	63305	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 10:07	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.77	1	1	0	900	900	0
4/17/2024 10:08	12505	MITR_T2	0	0	0	0	0	0	1.68	1.63	0	0	0	0	0	0
4/17/2024 10:08	63804	HEMP_T1	1	1	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
4/17/2024 10:08	67402	WAKE_T2	0	0	0	0	0	0	0.38	0.36	1	1	0	600	600	0
4/17/2024 10:08	67703	WERN_T2	0	0	0	0	0	0	-0.39	-0.3	1	1	0	900	900	0
4/17/2024 10:08	44502	HAMI_T2	1	1	0	2.5	2.9	0.4	0	0	0	0	0	0	0	0
4/17/2024 10:08	12604	MACA_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
4/17/2024 10:08	63801	HEMP_T1	0	0	0	0	0	0	0.25	0.33	0	0	0	0	0	0
4/17/2024 10:08	45602	WOOL_T1	2	2	0	0.6	0.45	-0.15	0.42	0.41	0	0	0	0	0	0
4/17/2024 10:08	40101	HUNT_T2	0	1	1	0	0	0	-0.19	-0.16	0	0	0	0	0	0
4/17/2024 10:08	44505	HAMI_T2	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
4/17/2024 10:08	12605	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 10:08	12502	MITR_T2	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
4/17/2024 10:08	10801	CHHI_T1	2	0	-2	0.35	0	-0.35	-0.79	-0.84	1	1	0	900	900	0
4/17/2024 10:08	60701	BREC_T1	0	0	0	0	0	0	-0.23	-0.05	1	1	0	600	600	0
4/17/2024 10:09	45902	AUBU_T1	1	1	0	0.4	0.7	0.3	-1.36	-1.41	2	2	0	1200	1200	0
4/17/2024 10:09	10801	CHHI_T1	2	0	-2	0.35	0	-0.35	-0.84	-0.78	1	1	0	900	900	0
4/17/2024 10:10	66504	SMAN_T2	0	0	0	0	0	0	-0.96	-0.75	0	0	0	0	0	0
4/17/2024 10:10	45902	AUBU_T1	1	1	0	0.4	0.7	0.3	-0.68	-0.7	1	1	0	600	600	0
4/17/2024 10:10	10805	CHHI_T2	2	3	1	4.95	4.5	-0.45	-0.54	-0.46	2	2	0	1200	1200	0
4/17/2024 10:13	41502	FAIR_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
4/17/2024 10:14	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	900	900	0
4/17/2024 10:15	64904	MILL_T1	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
4/17/2024 10:15	62601	ENGL_T1	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
4/17/2024 10:16	45702	LIND_T2	1	1	0	1.3	0.9	-0.4	-0.42	-0.37	0	0	0	0	0	0
4/17/2024 10:16	65502	MOXO_T2	0	0	0	0	0	0	-0.38	-0.11	0	0	0	0	0	0
4/17/2024 10:18	13303	ORVI_T1	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
4/17/2024 10:18	46301	ROHR_T1	288	475	187	0.47	0.88	0.41	0	0	0	0	0	0	0	0
4/17/2024 10:18	46302	ROHR_T1	125	256	131	0.27	0.65	0.38	0.11	0.17	0	0	0	0	0	0
4/17/2024 10:18	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 10:19	60501	NMAN_T2	3	3	0	5.03	5.23	0.2	0	0	0	0	0	0	0	0
4/17/2024 10:19	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 10:19	60502	NMAN_T2	0	0	0	0	0	0	-0.36	-0.33	0	0	0	0	0	0
4/17/2024 10:19	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	900	900	0
4/17/2024 10:19	64101	REFR_T1	0	0	0	0	0	0	-0.79	-0.91	0	0	0	0	0	0
4/17/2024 10:19	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 10:20	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 10:20	14401	SSLA_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/17/2024 10:20	14402	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 10:20	14404	SSLA_T1	1	2	1	6.1	3	-3.1	0	0	0	0	0	0	0	0
4/17/2024 10:20	64101	REFR_T1	0	0	0	0	0	0	-0.79	-0.91	0	0	0	0	0	0
4/17/2024 10:20	14403	SSLA_T1	0	1	1	0	0.1	0.1	1.1	1.18	0	0	0	0	0	0
4/17/2024 10:21	46302	ROHR_T1	125	256	131	0.27	0.65	0.38	0.11	0.17	0	0	0	0	0	0
4/17/2024 10:21	14401	SSLA_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/17/2024 10:21	14403	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 10:21	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 10:21	14402	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 10:21	14404	SSLA_T1	1	2	1	6.1	3	-3.1	-0.06	-0.04	0	0	0	0	0	0
4/17/2024 10:21	67703	WERN_T2	0	0	0	0	0	0	-0.39	-0.3	1	1	0	900	900	0
4/17/2024 10:21	46301	ROHR_T1	288	475	187	0.47	0.88	0.41	0	0	0	0	0	0	0	0
4/17/2024 10:22	20403	ASHF_T2	0	7	7	0	0.47	0.47	0.07	-0.09	0	0	0	0	0	0
4/17/2024 10:22	49804	UNIV_T1	1	1	0	0.7	0.7	0	1.33	1.38	0	0	0	0	0	0
4/17/2024 10:22	46301	ROHR_T1	288	475	187	0.47	0.88	0.41	0.18	0.18	0	0	0	0	0	0
4/17/2024 10:22	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 10:22	20402	ASHF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 10:22	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 10:22	46302	ROHR_T1	125	256	131	0.27	0.65	0.38	0	0	0	0	0	0	0	0
4/17/2024 10:23	46302	ROHR_T1	125	256	131	0.27	0.65	0.38	0	0	0	0	0	0	0	0
4/17/2024 10:23	66503	SMAN_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
4/17/2024 10:23	67702	WERN_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
4/17/2024 10:23	66502	SMAN_T2	0	0	0	0	0	0	0.21	0.3	0	0	0	0	0	0
4/17/2024 10:23	46301	ROHR_T1	288	475	187	0.47	0.88	0.41	0.18	0.18	0	0	0	0	0	0
4/17/2024 10:24	67703	WERN_T2	0	0	0	0	0	0	-0.3	-0.3	1	1	0	900	900	0
4/17/2024 10:26	66502	SMAN_T2	0	0	0	0	0	0	0.21	0.3	0	0	0	0	0	0
4/17/2024 10:26	41801	GOCI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/17/2024 10:26	41802	GOCI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/17/2024 10:26	20401	ASHF_T2	0	2	2	0	0.1	0.1	-1.29	-1.32	0	0	0	0	0	0
4/17/2024 10:26	20402	ASHF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 10:26	20403	ASHF_T2	0	7	7	0	0.47	0.47	-0.09	0.94	0	0	0	0	0	0
4/17/2024 10:29	25502	MADI_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
4/17/2024 10:29	25501	MADI_T1	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
4/17/2024 10:29	25503	MADI_T1	140	153	13	0.3	0.25	-0.05	-1.09	-1.09	0	0	0	0	0	0
4/17/2024 10:30	63403	HONY_T2	0	0	0	0	0	0	0.07	0.22	1	1	0	600	600	0
4/17/2024 10:30	45702	LIND_T2	1	1	0	0.9	1.1	0.2	-0.37	-0.35	0	0	0	0	0	0
4/17/2024 10:30	63402	HONY_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/17/2024 10:30	51204	MTON_T2	0	1	1	0	0	0	-0.82	-0.83	1	1	0	900	900	0
4/17/2024 10:31	41802	GOCI_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/17/2024 10:31	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 10:32	58402	MORO_T1	0	1	1	0	0	0	-0.21	-0.2	2	2	0	1500	1500	0
4/17/2024 10:33	15601	NSTR_T2	3	3	0	0.6	0.77	0.17	0	0	0	0	0	0	0	0
4/17/2024 10:33	15603	NSTR_T2	0	0	0	0	0	0	-0.67	-0.7	0	0	0	0	0	0
4/17/2024 10:33	13704	SCHN_T2	1	1	0	0.2	0.1	-0.1	-0.31	-0.34	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/17/2024 10:34	51204	MTON_T2	0	1	1	0	0	0	-0.82	-0.83	1	1	0	900	900	0
4/17/2024 10:35	13704	SCHN_T2	1	1	0	0.2	0.1	-0.1	-0.31	-0.34	0	0	0	0	0	0
4/17/2024 10:35	23001	SAJO_T1	0	0	0	0	0	0	-0.98	-1.01	0	0	0	0	0	0
4/17/2024 10:35	23002	SAJO_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/17/2024 10:36	45602	WOOL_T1	2	2	0	0.45	0.3	-0.15	0.43	0.4	0	0	0	0	0	0
4/17/2024 10:37	45602	WOOL_T1	2	2	0	0.45	0.3	-0.15	0.43	0.4	0	0	0	0	0	0
4/17/2024 10:37	61102	BERK_T5	0	1	1	0	0.2	0.2	0.52	0.55	1	1	0	300	300	0
4/17/2024 10:38	61102	BERK_T5	0	1	1	0	0.2	0.2	0.55	0.8	1	1	0	300	300	0
4/17/2024 10:39	61102	BERK_T5	0	1	1	0	0.2	0.2	1.1	1.59	2	2	0	600	600	0
4/17/2024 10:40	61102	BERK_T5	0	1	1	0	0.2	0.2	0.55	0.8	1	1	0	300	300	0
4/17/2024 10:41	61102	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 10:41	61103	BERK_T5	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
4/17/2024 10:42	61102	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 10:42	61103	BERK_T5	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
4/17/2024 10:43	61102	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 10:43	61103	BERK_T5	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
4/17/2024 10:43	45802	HEGI_T2	0	17	17	0	0.25	0.25	1.22	1.07	0	0	0	0	0	0
4/17/2024 10:44	42001	MNVL_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
4/17/2024 10:44	42002	MNVL_T2	1	1	0	4	4	0	0	0	0	0	0	0	0	0
4/17/2024 10:49	45702	LIND_T2	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
4/17/2024 10:49	45701	LIND_T2	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
4/17/2024 10:51	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 10:54	26001	WDAM_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
4/17/2024 10:54	26002	WDAM_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/17/2024 10:57	15001	BLMO_T1	4	4	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/17/2024 10:58	15001	BLMO_T1	4	4	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/17/2024 11:00	42401	GIMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 11:01	13503	MCMI_T2	1	2	1	0.5	0.15	-0.35	-0.04	-0.01	0	0	0	0	0	0
4/17/2024 11:03	13302	ORVI_T2	0	1	1	0	0.3	0.3	0.99	1.11	0	0	0	0	0	0
4/17/2024 11:06	14603	SWHI_T1	4	4	0	0.28	0.33	0.05	-1.1	-1.11	1	1	0	600	600	0
4/17/2024 11:08	46001	BERW_T1	0	0	0	0	0	0	0.46	1.14	0	0	0	0	0	0
4/17/2024 11:09	67501	WEWI_T1	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
4/17/2024 11:09	46001	BERW_T1	0	0	0	0	0	0	1.14	1.11	0	0	0	0	0	0
4/17/2024 11:09	67505	WEWI_T1	0	0	0	0	0	0	-0.3	-0.22	1	1	0	900	900	0
4/17/2024 11:13	45501	DERR_T2	0	0	0	0	0	0	0.86	0.78	2	2	0	1800	1800	0
4/17/2024 11:13	45502	DERR_T2	2	1	-1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/17/2024 11:15	60801	BUCK_T1	0	0	0	0	0	0	-0.4	-0.39	1	1	0	600	600	0
4/17/2024 11:15	23403	HONE_T1	0	0	0	0	0	0	-0.69	-0.75	0	0	0	0	0	0
4/17/2024 11:15	26703	HEML_T1	0	1	1	0	0.1	0.1	-0.97	-0.96	1	1	0	600	600	0
4/17/2024 11:15	23404	HONE_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/17/2024 11:15	45701	LIND_T2	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
4/17/2024 11:15	45702	LIND_T2	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
4/17/2024 11:16	59003	MIFF_T1	0	1	1	0	0.1	0.1	-1.23	-1.37	0	0	0	0	0	0
4/17/2024 11:17	65501	MOJO_T1	0	0	0	0	0	0	-0.49	-0.31	1	1	0	900	900	0
4/17/2024 11:18	60801	BUCK_T1	0	0	0	0	0	0	-0.4	-0.39	1	1	0	600	600	0
4/17/2024 11:19	24902	WHHA_T1	1	8	7	0.4	0.63	0.23	0	0	0	0	0	0	0	0
4/17/2024 11:19	48302	ORWI_T2	2	2	0	1.5	1.4	-0.1	-0.02	0.01	0	0	0	0	0	0
4/17/2024 11:20	24902	WHHA_T1	1	8	7	0.4	0.63	0.23	0	0	0	0	0	0	0	0
4/17/2024 11:21	59101	WALK_T2	0	0	0	0	0	0	2.15	2.11	0	0	0	0	0	0
4/17/2024 11:21	60801	BUCK_T1	0	0	0	0	0	0	-0.4	-0.39	1	1	0	600	600	0
4/17/2024 11:22	42903	MIDD_T2	2	2	0	0.2	0.75	0.55	0	0	0	0	0	0	0	0
4/17/2024 11:22	42902	MIDD_T2	1	2	1	0.3	0.45	0.15	-0.52	-0.45	1	1	0	600	600	0
4/17/2024 11:22	66703	STRA_T1	0	0	0	0	0	0	-0.11	-0.03	0	0	0	0	0	0
4/17/2024 11:28	53903	HALI_T2	2	2	0	1.5	1.5	0	0	0	0	0	0	0	0	0
4/17/2024 11:28	53902	HALI_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
4/17/2024 11:28	53901	HALI_T2	1	1	0	0.7	0.8	0.1	-1.14	-1.13	0	0	0	0	0	0
4/17/2024 11:43	40101	HUNT_T2	1	1	0	0.1	0	-0.1	-0.05	-0.07	0	0	0	0	0	0
4/17/2024 11:45	40101	HUNT_T2	0	2	2	0	1	1	-0.05	-0.07	0	0	0	0	0	0
4/17/2024 11:58	54501	ENOL_T2	4	4	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
4/17/2024 11:58	54505	ENOL_T2	1	2	1	1	0.6	-0.4	-1.41	-1.42	1	1	0	600	600	0
4/17/2024 11:58	54502	ENOL_T2	36	12	-24	0.14	0.19	0.05	0	0	0	0	0	0	0	0
4/17/2024 11:58	55105	WERT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/17/2024 11:59	55105	WERT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/17/2024 12:00	12801	MICK_T1	0	0	0	0	0	0	0	-0.04	1	1	0	600	600	0
4/17/2024 12:00	12807	MICK_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/17/2024 12:00	64702	LITI_T2	0	0	0	0	0	0	-0.63	-0.69	0	0	0	0	0	0
4/17/2024 12:01	64702	LITI_T2	0	0	0	0	0	0	-0.63	-0.69	0	0	0	0	0	0
4/17/2024 12:02	64702	LITI_T2	0	0	0	0	0	0	-0.63	-0.69	0	0	0	0	0	0
4/17/2024 12:02	54501	ENOL_T2	4	4	0	0.28	0.4	0.12	-0.57	-0.56	1	1	0	600	600	0
4/17/2024 12:02	54505	ENOL_T2	1	2	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
4/17/2024 12:02	55105	WERT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/17/2024 12:02	54502	ENOL_T2	6	39	33	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
4/17/2024 12:08	42201	SHEN_T2	0	0	0	0	0	0	-0.24	-0.2	1	1	0	600	600	0
4/17/2024 12:09	62102	ELAN_T1	0	0	0	0	0	0	0.45	0.51	0	0	0	0	0	0
4/17/2024 12:15	54501	ENOL_T2	4	4	0	0.33	0.55	0.22	-0.56	-0.59	1	1	0	600	600	0
4/17/2024 12:15	54505	ENOL_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
4/17/2024 12:15	54502	ENOL_T2	8	39	31	0.19	0.3	0.11	0	0	0	0	0	0	0	0
4/17/2024 12:17	54501	ENOL_T2	4	4	0	0.33	0.55	0.22	0	0	0	0	0	0	0	0
4/17/2024 12:17	54505	ENOL_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
4/17/2024 12:17	54502	ENOL_T2	8	39	31	0.19	0.3	0.11	0	0	0	0	0	0	0	0
4/17/2024 12:17	54503	ENOL_T2	0	0	0	0	0	0	-1.37	-1.36	1	1	0	600	600	0
4/17/2024 12:18	51401	LYKE_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
4/17/2024 12:19	54501	ENOL_T2	4	4	0	0.33	0.55	0.22	0	0	0	0	0	0	0	0
4/17/2024 12:19	54502	ENOL_T2	8	39	31	0.19	0.3	0.11	0	0	0	0	0	0	0	0
4/17/2024 12:19	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/17/2024 12:19	54505	ENOL_T2	2	2	0	0.6	0.75	0.15	-1.42	-1.42	1	1	0	600	600	0
4/17/2024 12:21	43302	WATS_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/17/2024 12:21	43301	WATS_T2	0	1	1	0	0.5	0.5	0.18	-0.8	0	1	1	0	900	900
4/17/2024 12:24	44302	BEAV_T2	9	2	-7	0.1	0.2	0.1	0.28	0.27	0	0	0	0	0	0
4/17/2024 12:24	44301	BEAV_T2	0	1	1	0	0	0	-0.15	0.5	2	2	0	1500	1500	0
4/17/2024 12:25	44301	BEAV_T2	0	1	1	0	0	0	-0.15	0.5	2	2	0	1500	1500	0
4/17/2024 12:25	44302	BEAV_T2	9	2	-7	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/17/2024 12:27	44302	BEAV_T2	9	2	-7	0.1	0.2	0.1	0.28	0.27	0	0	0	0	0	0
4/17/2024 12:27	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 12:33	63801	HEMP_T1	0	0	0	0	0	0	0.07	0.34	0	0	0	0	0	0
4/17/2024 12:33	63804	HEMP_T1	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
4/17/2024 12:39	46002	BERW_T2	0	0	0	0	0	0	-0.74	-0.59	1	1	0	900	900	0
4/17/2024 12:39	56802	BENV_T2	1	19	18	0.9	0.25	-0.65	-2.34	-2.34	0	0	0	0	0	0
4/17/2024 12:40	45901	AUBU_T1	0	0	0	0	0	0	2	2.04	0	0	0	0	0	0
4/17/2024 12:41	56802	BENV_T2	1	19	18	0.9	0.25	-0.65	-0.78	-0.78	0	0	0	0	0	0
4/17/2024 12:42	56802	BENV_T2	1	19	18	0.9	0.25	-0.65	-1.56	-1.56	0	0	0	0	0	0
4/17/2024 12:43	67605	WARW_T1	14	15	1	0.69	0.67	-0.02	-1.21	-1.15	0	0	0	0	0	0
4/17/2024 12:47	47401	PENS_T1	0	3	3	0	0.95	0.95	0.98	0.97	0	0	0	0	0	0
4/17/2024 12:47	47403	PENS_T1	1	1	0	1.9	0	-1.9	0	0	0	0	0	0	0	0
4/17/2024 12:47	47402	PENS_T1	1	2	1	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
4/17/2024 12:48	47103	MARL_T2	2	1	-1	0.15	0.1	-0.05	-1.24	-1.17	0	0	0	0	0	0
4/17/2024 12:48	47102	MARL_T2	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/17/2024 12:48	67605	WARW_T1	14	16	2	0.69	0.64	-0.05	-1.21	-1.15	0	0	0	0	0	0
4/17/2024 12:49	42802	SEU_T1	0	0	0	0	0	0	-0.77	-0.75	1	1	0	900	900	0
4/17/2024 12:50	42802	SEU_T1	0	0	0	0	0	0	-1.53	-1.5	2	2	0	1800	1800	0
4/17/2024 12:58	51101	CARL_T1	0	0	0	0	0	0	-1.21	-1.14	1	1	0	600	600	0
4/17/2024 12:58	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 12:58	51102	CARL_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
4/17/2024 13:00	22602	KIMB_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
4/17/2024 13:05	42902	MIDD_T2	5	2	-3	0.18	0.35	0.17	0.43	0.3	0	0	0	0	0	0
4/17/2024 13:06	42902	MIDD_T2	5	2	-3	0.18	0.35	0.17	0.14	0.1	0	0	0	0	0	0
4/17/2024 13:11	67605	WARW_T1	15	15	0	0.65	0.64	-0.01	0	0	0	0	0	0	0	0
4/17/2024 13:11	67603	WARW_T1	0	0	0	0	0	0	-0.04	-0.07	0	0	0	0	0	0
4/17/2024 13:13	67605	WARW_T1	15	15	0	0.65	0.64	-0.01	-1.13	-1.15	0	0	0	0	0	0
4/17/2024 13:17	65503	MOJO_T2	0	1	1	0	0.1	0.1	-1.17	-1.16	1	1	0	900	900	0
4/17/2024 13:18	67605	WARW_T1	15	16	1	0.48	0.64	0.16	-1.13	-1.15	0	0	0	0	0	0
4/17/2024 13:20	45702	LIND_T2	1	1	0	1.6	1.9	0.3	-0.58	-0.61	0	0	0	0	0	0
4/17/2024 13:22	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 13:23	43202	MVIL_T2	171	118	-53	0.85	2.11	1.26	-0.66	-1.53	0	0	0	0	0	0
4/17/2024 13:23	42701	AUGU_T1	1	2	1	1.3	0.65	-0.65	0	0	2	2	0	1800	1800	0
4/17/2024 13:23	43201	MVIL_T2	2	2	0	0.3	1	0.7	0	0	0	0	0	0	0	0
4/17/2024 13:24	42701	AUGU_T1	1	2	1	1.3	0.65	-0.65	0	0	2	2	0	1800	1800	0
4/17/2024 13:24	60101	COCA_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
4/17/2024 13:26	60101	COCA_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
4/17/2024 13:37	45902	AUBU_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 13:37	57403	SPAN_T1	1	1	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
4/17/2024 13:37	45901	AUBU_T1	0	0	0	0	0	0	1.99	1.99	0	0	0	0	0	0
4/17/2024 13:37	57401	SPAN_T1	2	2	0	0.55	0.45	-0.1	-0.6	-0.56	1	1	0	600	600	0
4/17/2024 13:38	67201	TEHI_T1	57	47	-10	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
4/17/2024 13:38	67203	TEHI_T1	2	0	-2	0.3	0	-0.3	2.39	2.41	2	2	0	1200	1200	0
4/17/2024 13:38	64802	MONE_T2	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
4/17/2024 13:38	64801	MONE_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
4/17/2024 13:40	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 13:43	67501	WEWI_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/17/2024 13:43	67605	WARW_T1	15	18	3	0.63	0.75	0.12	-1.14	-1.13	0	0	0	0	0	0
4/17/2024 13:43	67504	WEWI_T1	0	0	0	0	0	0	-0.26	-0.25	1	1	0	900	900	0
4/17/2024 13:45	11201	ELHE_T2	0	0	0	0	0	0	-0.47	-0.44	2	2	0	2400	2400	0
4/17/2024 13:47	13501	MCMI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/17/2024 13:48	60803	BUCK_T1	0	0	0	0	0	0	-1.21	-1.2	1	1	0	600	600	0
4/17/2024 13:48	67605	WARW_T1	15	18	3	0.66	0.75	0.09	-1.14	-1.13	0	0	0	0	0	0
4/17/2024 13:50	60803	BUCK_T1	0	0	0	0	0	0	-1.21	-1.2	1	1	0	600	600	0
4/17/2024 13:50	65503	MOJO_T2	1	2	1	0.1	0.35	0.25	-1.16	-1.19	1	1	0	900	900	0
4/17/2024 13:50	65603	QVIL_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
4/17/2024 13:54	11805	FRAN_T1	0	0	0	0	0	0	-1.28	-1.35	1	1	0	1200	1200	0
4/17/2024 13:54	59101	WALK_T2	0	0	0	0	0	0	2.21	2.05	0	0	0	0	0	0
4/17/2024 13:58	67605	WARW_T1	15	18	3	0.66	0.75	0.09	-1.13	-1.11	0	0	0	0	0	0
4/17/2024 13:59	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.05	0	0	0	0	0	0
4/17/2024 14:03	67605	WARW_T1	18	17	-1	0.75	0.68	-0.07	-1.13	-1.11	0	0	0	0	0	0
4/17/2024 14:04	48302	ORWI_T2	2	2	0	1.6	2	0.4	0.01	0.01	0	0	0	0	0	0
4/17/2024 14:06	64101	REFR_T1	0	0	0	0	0	0	-0.74	-0.86	0	0	0	0	0	0
4/17/2024 14:08	16301	ALPA_T1	1	1	0	0.1	0.2	0.1	-0.44	-0.44	0	0	0	0	0	0
4/17/2024 14:11	45902	AUBU_T1	1	1	0	0.1	0.5	0.4	-0.85	-0.65	1	1	0	600	600	0
4/17/2024 14:12	67605	WARW_T1	18	17	-1	0.75	0.68	-0.07	-1.11	-1.08	0	0	0	0	0	0
4/17/2024 14:12	54601	SUMM_T2	12	13	1	0.64	0.72	0.08	0	0	0	0	0	0	0	0
4/17/2024 14:12	54602	SUMM_T2	0	1	1	0	0.1	0.1	-2.46	-2.46	1	1	0	600	600	0
4/17/2024 14:14	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 14:14	54601	SUMM_T2	12	13	1	0.64	0.72	0.08	0	0	0	0	0	0	0	0
4/17/2024 14:14	54603	SUMM_T2	0	0	0	0	0	0	0.07	0.09	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/17/2024 14:15	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 14:15	54601	SUMM_T2	13	12	-1	0.68	0.79	0.11	-1.9	-1.88	2	2	0	2100	2100	0
4/17/2024 14:18	67605	WARW_T1	15	17	2	0.66	0.68	0.02	-1.11	-1.08	0	0	0	0	0	0
4/17/2024 14:19	56501	ROCK_T2	3	2	-1	0.3	0.4	0.1	-0.01	-0.01	0	0	0	0	0	0
4/17/2024 14:20	47001	HUGH_T2	8	16	8	0.64	0.47	-0.17	0	0	0	0	0	0	0	0
4/17/2024 14:21	56501	ROCK_T2	3	2	-1	0.3	0.4	0.1	-0.01	-0.01	0	0	0	0	0	0
4/17/2024 14:21	47001	HUGH_T2	8	16	8	0.64	0.47	-0.17	0	0	0	0	0	0	0	0
4/17/2024 14:24	56501	ROCK_T2	3	2	-1	0.3	0.4	0.1	-0.02	-0.02	0	0	0	0	0	0
4/17/2024 14:24	14705	TREX_T1	0	0	0	0	0	0	0.51	0.6	0	0	0	0	0	0
4/17/2024 14:25	67702	WERN_T2	1	0	-1	0.2	0	-0.2	-0.09	-0.11	0	0	0	0	0	0
4/17/2024 14:25	45902	AUBU_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/17/2024 14:25	59101	WALK_T2	0	0	0	0	0	0	2.21	2.07	0	0	0	0	0	0
4/17/2024 14:25	67701	WERN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/17/2024 14:25	45901	AUBU_T1	0	0	0	0	0	0	3.49	3.47	0	0	0	0	0	0
4/17/2024 14:27	11201	ELHE_T2	0	0	0	0	0	0	-0.33	-0.41	2	2	0	2400	2400	0
4/17/2024 14:28	67605	WARW_T1	15	17	2	0.66	0.68	0.02	-1.08	-1.13	0	0	0	0	0	0
4/17/2024 14:29	56501	ROCK_T2	3	2	-1	0.3	0.4	0.1	-0.01	-0.01	0	0	0	0	0	0
4/17/2024 14:29	10901	COOP_T2	0	0	0	0	0	0	1.23	1.22	0	0	0	0	0	0
4/17/2024 14:33	67605	WARW_T1	17	15	-2	0.68	0.66	-0.02	-1.08	-1.13	0	0	0	0	0	0
4/17/2024 14:36	43201	MVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 14:36	43202	MVIL_T2	0	2	2	0	0.15	0.15	-0.57	-0.55	0	0	0	0	0	0
4/17/2024 14:37	13807	SALI_T1	0	1	1	0	0.4	0.4	0.1	0.11	0	0	0	0	0	0
4/17/2024 14:39	11801	FRAN_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
4/17/2024 14:40	45502	DERR_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/17/2024 14:40	46004	BERW_T2	0	0	0	0	0	0	-0.08	-0.14	0	0	0	0	0	0
4/17/2024 14:40	45501	DERR_T2	0	1	1	0	0.2	0.2	0.68	0.81	2	2	0	1800	1800	0
4/17/2024 14:42	67703	WERN_T2	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
4/17/2024 14:42	67701	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 14:45	24702	FLND_T2	0	0	0	0	0	0	0.46	0.08	1	0	-1	1200	0	-1200
4/17/2024 14:46	59001	MIFF_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/17/2024 14:46	59003	MIFF_T1	1	0	-1	0.7	0	-0.7	-0.36	0.45	0	0	0	0	0	0
4/17/2024 14:46	59002	MIFF_T1	6	1	-5	0.37	0.1	-0.27	0	0	0	0	0	0	0	0
4/17/2024 14:50	62104	ELAN_T1	0	0	0	0	0	0	0.42	0.42	2	2	0	1500	1500	0
4/17/2024 14:52	62105	ELAN_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
4/17/2024 14:53	62102	ELAN_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
4/17/2024 14:55	14601	SWHI_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
4/17/2024 14:55	14603	SWHI_T1	1	5	4	0.1	0.26	0.16	0	0	0	0	0	0	0	0
4/17/2024 14:55	62102	ELAN_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
4/17/2024 14:56	62102	ELAN_T1	0	0	0	0	0	0	0.97	0.96	0	0	0	0	0	0
4/17/2024 14:56	62104	ELAN_T1	0	0	0	0	0	0	0.42	0.44	2	2	0	1500	1500	0
4/17/2024 14:57	62102	ELAN_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
4/17/2024 15:03	14201	EALL_T1	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
4/17/2024 15:07	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 15:08	51004	NHAR_T1	13	13	0	1.11	1.23	0.12	-0.42	-0.43	0	0	0	0	0	0
4/17/2024 15:08	51002	NHAR_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/17/2024 15:09	51102	CARL_T1	0	5	5	0	0.24	0.24	0	0	0	0	0	0	0	0
4/17/2024 15:09	51101	CARL_T1	0	1	1	0	0.4	0.4	-1.17	-1.03	1	1	0	600	600	0
4/17/2024 15:11	53903	HALI_T2	2	3	1	1.6	1.23	-0.37	-0.21	-0.14	0	0	0	0	0	0
4/17/2024 15:11	53901	HALI_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
4/17/2024 15:11	14204	EALL_T2	0	0	0	0	0	0	-0.29	-0.47	0	0	0	0	0	0
4/17/2024 15:11	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 15:11	53902	HALI_T2	1	2	1	6	3.05	-2.95	0	0	0	0	0	0	0	0
4/17/2024 15:11	29402	BELT_T1	1	1	0	8.2	7.5	-0.7	0	0	0	0	0	0	0	0
4/17/2024 15:14	17401	FOHI_T1	0	0	0	0	0	0	-3.09	-3	0	0	0	0	0	0
4/17/2024 15:14	61506	EPET_T2	0	0	0	0	0	0	-1.76	-0.88	2	1	-1	1800	900	-900
4/17/2024 15:15	52004	LING_T2	0	1	1	0	0.2	0.2	0.1	0.1	0	0	0	0	0	0
4/17/2024 15:15	52002	LING_T2	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
4/17/2024 15:15	52006	LING_T2	3	4	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/17/2024 15:16	53902	HALI_T2	2	2	0	3.05	3	-0.05	0	0	0	0	0	0	0	0
4/17/2024 15:16	53901	HALI_T2	1	2	1	1.1	1	-0.1	0	0	0	0	0	0	0	0
4/17/2024 15:16	44902	SCOT_T2	0	0	0	0	0	0	-1.89	-1.88	0	0	0	0	0	0
4/17/2024 15:16	53903	HALI_T2	3	4	1	1.23	0.98	-0.25	-0.41	-0.29	0	0	0	0	0	0
4/17/2024 15:17	52002	LING_T2	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
4/17/2024 15:17	52006	LING_T2	3	4	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/17/2024 15:17	52004	LING_T2	0	1	1	0	0.2	0.2	0.1	0.1	0	0	0	0	0	0
4/17/2024 15:18	50103	HARR_T3	2	2	0	0.3	0.65	0.35	-0.77	-1	1	1	0	1200	1200	0
4/17/2024 15:18	50105	HARR_T3	6	6	0	6.25	6.25	0	0	0	0	0	0	0	0	0
4/17/2024 15:18	65901	SAKR_T2	1	1	0	9.5	9.5	0	-1.15	-1.2	1	1	0	900	900	0
4/17/2024 15:19	65702	RVIL_T2	0	2	2	0	0.15	0.15	-0.95	-0.96	1	1	0	600	600	0
4/17/2024 15:19	13901	SEID_T1	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
4/17/2024 15:22	65702	RVIL_T2	0	2	2	0	0.15	0.15	-0.95	-0.96	1	1	0	600	600	0
4/17/2024 15:23	65702	RVIL_T2	0	2	2	0	0.15	0.15	-0.96	-0.95	1	1	0	600	600	0
4/17/2024 15:24	51603	DUKE_T1	2	2	0	0.55	0.7	0.15	-0.55	-0.53	0	0	0	0	0	0
4/17/2024 15:27	22003	BOHE_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
4/17/2024 15:27	60901	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 15:27	29402	BELT_T1	1	1	0	7.5	7	-0.5	0	0	0	0	0	0	0	0
4/17/2024 15:27	60902	DONG_T2	0	0	0	0	0	0	0.8	0.83	0	0	0	0	0	0
4/17/2024 15:27	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 15:31	59302	MCAL_T1	1	4	3	0.1	0.43	0.33	-0.37	-0.4	1	1	0	600	600	0
4/17/2024 15:31	64702	LITI_T2	0	0	0	0	0	0	-1.17	-1.1	0	0	0	0	0	0
4/17/2024 15:31	59301	MCAL_T1	13	63	50	0.46	0.28	-0.18	0	0	0	0	0	0	0	0
4/17/2024 15:33	58302	NOTT_T1	2	2	0	0.4	0.5	0.1	-0.31	-0.37	1	1	0	1200	1200	0
4/17/2024 15:33	64702	LITI_T2	0	0	0	0	0	0	-0.58	-0.55	0	0	0	0	0	0
4/17/2024 15:34	17002	RIRO_T2	57	87	30	0.18	0.19	0.01	0.56	0.52	0	0	0	0	0	0
4/17/2024 15:34	13901	SEID_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
4/17/2024 15:38	58002	WCAR_T2	12	7	-5	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/17/2024 15:38	58006	WCAR_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
4/17/2024 15:38	22003	BOHE_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
4/17/2024 15:40	58002	WCAR_T2	12	7	-5	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/17/2024 15:40	58006	WCAR_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
4/17/2024 15:41	46203	DANV_T2	0	1	1	0	0.3	0.3	0.07	0.1	0	0	0	0	0	0
4/17/2024 15:41	51304	WIND_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
4/17/2024 15:41	51306	WIND_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
4/17/2024 15:43	46203	DANV_T2	0	1	1	0	0.3	0.3	0.07	0.1	0	0	0	0	0	0
4/17/2024 15:44	26704	HEMI_T2	0	16	16	0	0.1	0.1	-0.9	-0.89	1	1	0	1200	1200	0
4/17/2024 15:50	47401	PENS_T1	3	5	2	0.5	1.06	0.56	1.04	1.14	0	0	0	0	0	0
4/17/2024 15:50	47402	PENS_T1	1	2	1	1	1	0	0	0	0	0	0	0	0	0
4/17/2024 15:50	47403	PENS_T1	7	43	36	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
4/17/2024 15:51	47401	PENS_T1	3	5	2	0.5	1.06	0.56	2.08	2.27	0	0	0	0	0	0
4/17/2024 15:51	57002	WHHI_T2	0	0	0	0	0	0	-1.29	-1.3	1	1	0	1200	1200	0
4/17/2024 15:51	16301	ALPA_T1	2	2	0	0.25	0.3	0.05	-0.45	-0.42	0	0	0	0	0	0
4/17/2024 15:51	57003	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 15:51	59201	THOM_T1	14	18	4	0.33	0.39	0.06	0	0	0	0	0	0	0	0
4/17/2024 15:51	47403	PENS_T1	7	43	36	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
4/17/2024 15:51	59202	THOM_T1	422	436	14	0.33	0.37	0.04	0	0	0	0	0	0	0	0
4/17/2024 15:51	47402	PENS_T1	1	2	1	1	1	0	0	0	0	0	0	0	0	0
4/17/2024 15:51	57006	WHHI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 15:52	24602	VARD_T2	782	726	-56	0.71	0.69	-0.02	-0.91	-0.89	0	0	0	0	0	0
4/17/2024 15:52	24603	VARD_T2	19	12	-7	0.21	0.23	0.02	0	0	0	0	0	0	0	0
4/17/2024 15:53	59201	THOM_T1	14	18	4	0.33	0.39	0.06	0	0	0	0	0	0	0	0
4/17/2024 15:53	59202	THOM_T1	422	436	14	0.33	0.37	0.04	0	0	0	0	0	0	0	0
4/17/2024 15:53	22003	BOHE_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
4/17/2024 15:54	59201	THOM_T1	14	18	4	0.33	0.39	0.06	0	0	0	0	0	0	0	0
4/17/2024 15:54	59202	THOM_T1	422	436	14	0.33	0.37	0.04	0	0	0	0	0	0	0	0
4/17/2024 15:56	16301	ALPA_T1	2	2	0	0.25	0.3	0.05	-0.42	-0.46	0	0	0	0	0	0
4/17/2024 15:56	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
4/17/2024 15:58	63401	HONY_T1	0	0	0	0	0	0	0.89	0.82	0	0	0	0	0	0
4/17/2024 15:58	11504	FREE_T1	0	0	0	0	0	0	-2.56	-1.53	2	1	-1	2100	1200	-900
4/17/2024 15:58	63404	HONY_T1	4	31	27	0.13	0.18	0.05	0	0	0	0	0	0	0	0
4/17/2024 15:59	53501	EVIL_T2	4	13	9	0.88	0.53	-0.35	-0.75	-0.84	1	1	0	600	600	0
4/17/2024 15:59	46102	MACI_T1	349	351	2	0.59	0.61	0.02	0.47	0.33	0	0	0	0	0	0
4/17/2024 15:59	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
4/17/2024 15:59	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/17/2024 15:59	67605	WARW_T1	22	27	5	0.65	0.6	-0.05	-1.08	-1.07	0	0	0	0	0	0
4/17/2024 15:59	62605	ENGL_T1	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
4/17/2024 16:00	52001	LING_T1	1	1	0	0.2	0.2	0	0.14	0.14	0	0	0	0	0	0
4/17/2024 16:00	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 16:00	62605	ENGL_T1	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
4/17/2024 16:01	52004	LING_T2	5	5	0	0.4	0.56	0.16	0.1	0.1	0	0	0	0	0	0
4/17/2024 16:01	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
4/17/2024 16:01	51402	LYKE_T1	7	16	9	0.11	0.16	0.05	0	0	0	0	0	0	0	0
4/17/2024 16:01	52006	LING_T2	4	3	-1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/17/2024 16:01	52002	LING_T2	2	1	-1	0.9	1.4	0.5	0	0	0	0	0	0	0	0
4/17/2024 16:01	11504	FREE_T1	0	0	0	0	0	0	-2.56	-1.53	2	1	-1	2100	1200	-900
4/17/2024 16:02	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
4/17/2024 16:03	41602	CLEV_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/17/2024 16:03	67605	WARW_T1	22	27	5	0.6	0.6	0	-1.08	-1.07	0	0	0	0	0	0
4/17/2024 16:03	44201	POIN_T1	0	315	315	0	0.33	0.33	-2.65	-6.49	6	6	0	6300	6300	0
4/17/2024 16:03	52002	LING_T2	2	1	-1	0.9	1.4	0.5	0	0	0	0	0	0	0	0
4/17/2024 16:03	52004	LING_T2	5	5	0	0.4	0.56	0.16	0.1	0.1	0	0	0	0	0	0
4/17/2024 16:03	52006	LING_T2	4	3	-1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/17/2024 16:03	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 16:03	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/17/2024 16:03	12102	SALL_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/17/2024 16:04	44201	POIN_T1	0	315	315	0	0.33	0.33	-0.88	-2.16	2	2	0	2100	2100	0
4/17/2024 16:04	41602	CLEV_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/17/2024 16:04	51402	LYKE_T1	7	16	9	0.11	0.16	0.05	-1.4	-1.4	1	1	0	600	600	0
4/17/2024 16:04	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 16:06	65702	RVIL_T2	3	4	1	0.13	0.2	0.07	-0.89	-0.9	1	1	0	600	600	0
4/17/2024 16:06	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
4/17/2024 16:06	51402	LYKE_T1	7	16	9	0.11	0.16	0.05	0	0	0	0	0	0	0	0
4/17/2024 16:07	44201	POIN_T1	0	315	315	0	0.33	0.33	-0.88	-2.16	2	2	0	2100	2100	0
4/17/2024 16:07	47001	HUGH_T2	14	135	121	0.74	0.42	-0.32	0	0	0	0	0	0	0	0
4/17/2024 16:07	67201	TEHI_T1	70	120	50	0.42	0.89	0.47	0.41	0.36	1	1	0	600	600	0
4/17/2024 16:09	22003	BOHE_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 16:09	12102	SALL_T2	0	0	0	0	0	0	0.04	0.11	0	0	0	0	0	0
4/17/2024 16:09	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.88	-0.94	1	1	0	600	600	0
4/17/2024 16:10	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.88	-0.94	1	1	0	600	600	0
4/17/2024 16:10	28703	HAML_T2	3	1	-2	0.47	0.1	-0.37	0	0	0	0	0	0	0	0
4/17/2024 16:10	28704	HAML_T2	1	1	0	0.3	0.5	0.2	-0.01	-0.01	0	0	0	0	0	0
4/17/2024 16:11	67605	WARW_T1	22	27	5	0.6	0.6	0	-1.07	-1.02	0	0	0	0	0	0
4/17/2024 16:11	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.88	-0.94	1	1	0	600	600	0
4/17/2024 16:11	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.68	0.26	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/17/2024 16:11	67502	WEWI_T2	18	1	-17	0.14	0.3	0.16	-0.49	-0.5	0	0	0	0	0	0
4/17/2024 16:11	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/17/2024 16:11	29402	BELT_T1	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
4/17/2024 16:11	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 16:12	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/17/2024 16:12	67605	WARW_T1	22	27	5	0.6	0.6	0	-1.07	-1.02	0	0	0	0	0	0
4/17/2024 16:13	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 16:13	29402	BELT_T1	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
4/17/2024 16:13	53901	HALI_T2	7	6	-1	0.5	0.5	0	0	0	0	0	0	0	0	0
4/17/2024 16:13	53903	HALI_T2	14	12	-2	0.58	0.7	0.12	0	0	0	0	0	0	0	0
4/17/2024 16:13	53902	HALI_T2	3	3	0	2.07	2.4	0.33	-0.24	-0.26	0	0	0	0	0	0
4/17/2024 16:14	15103	UPHA_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
4/17/2024 16:14	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/17/2024 16:14	67605	WARW_T1	22	27	5	0.6	0.6	0	-1.07	-1.02	0	0	0	0	0	0
4/17/2024 16:15	45902	AUBU_T1	1	2	1	0.4	0.45	0.05	-0.88	-0.94	1	1	0	600	600	0
4/17/2024 16:15	12006	HATF_T1	0	0	0	0	0	0	0.1	1.24	1	0	-1	1200	0	-1200
4/17/2024 16:16	12502	MITR_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
4/17/2024 16:16	54601	SUMM_T2	11	10	-1	0.85	0.81	-0.04	-1.9	-1.89	2	2	0	2100	2100	0
4/17/2024 16:16	12505	MITR_T2	0	0	0	0	0	0	0.77	0.92	0	0	0	0	0	0
4/17/2024 16:16	54602	SUMM_T2	11	5	-6	0.26	0.18	-0.08	0	0	0	0	0	0	0	0
4/17/2024 16:17	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 16:17	41602	CLEV_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/17/2024 16:18	47401	PENS_T1	5	10	5	1.02	0.5	-0.52	1.16	1.15	0	0	0	0	0	0
4/17/2024 16:18	47403	PENS_T1	1	7	6	0.6	0.49	-0.11	0	0	0	0	0	0	0	0
4/17/2024 16:18	67605	WARW_T1	27	14	-13	0.6	0.63	0.03	-1.07	-1.02	0	0	0	0	0	0
4/17/2024 16:18	44203	POIN_T2	0	0	0	0	0	0	0.39	0.3	1	1	0	900	900	0
4/17/2024 16:18	67603	WARW_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/17/2024 16:18	47402	PENS_T1	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/17/2024 16:19	44201	POIN_T1	305	538	233	0.34	0.41	0.07	-4.32	-3.93	4	4	0	4200	4200	0
4/17/2024 16:20	65802	RTWN_T2	0	0	0	0	0	0	-1.08	-1.1	0	0	0	0	0	0
4/17/2024 16:20	15103	UPHA_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
4/17/2024 16:21	47402	PENS_T1	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/17/2024 16:21	47401	PENS_T1	5	10	5	1.02	0.5	-0.52	1.16	1.15	0	0	0	0	0	0
4/17/2024 16:21	47403	PENS_T1	1	7	6	0.6	0.49	-0.11	0	0	0	0	0	0	0	0
4/17/2024 16:23	44201	POIN_T1	305	538	233	0.34	0.41	0.07	-2.16	-1.96	2	2	0	2100	2100	0
4/17/2024 16:24	14702	TREX_T2	0	0	0	0	0	0	2.05	1.97	0	0	0	0	0	0
4/17/2024 16:25	14702	TREX_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
4/17/2024 16:25	45902	AUBU_T1	1	2	1	0.4	0.45	0.05	-0.94	-0.93	1	1	0	600	600	0
4/17/2024 16:26	14702	TREX_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
4/17/2024 16:26	63805	GREE_T1	0	0	0	0	0	0	-1.11	-0.99	0	0	0	0	0	0
4/17/2024 16:27	46801	HEPB_T2	2	2	0	0.45	0.4	-0.05	0.58	0.58	0	0	0	0	0	0
4/17/2024 16:27	53502	EVIL_T2	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
4/17/2024 16:27	53501	EVIL_T2	10	8	-2	0.48	0.58	0.1	0	0	0	0	0	0	0	0
4/17/2024 16:28	63305	GREE_T1	0	0	0	0	0	0	-1.11	-0.99	0	0	0	0	0	0
4/17/2024 16:28	67603	WARW_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/17/2024 16:28	67605	WARW_T1	27	14	-13	0.6	0.63	0.03	-1.02	-1.04	0	0	0	0	0	0
4/17/2024 16:29	63401	HONY_T1	0	0	0	0	0	0	0.71	0.65	0	0	0	0	0	0
4/17/2024 16:29	45801	HEGI_T1	0	0	0	0	0	0	-0.27	-0.31	1	1	0	900	900	0
4/17/2024 16:29	63404	HONY_T1	22	3	-19	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
4/17/2024 16:30	45902	AUBU_T1	1	8	7	0.3	0.44	0.14	-0.94	-0.93	1	1	0	600	600	0
4/17/2024 16:30	45801	HEGI_T1	0	0	0	0	0	0	-0.27	-0.31	1	1	0	900	900	0
4/17/2024 16:32	54602	SUMM_T2	5	0	-5	0.18	0	-0.18	-2.47	-2.46	1	1	0	600	600	0
4/17/2024 16:32	54601	SUMM_T2	10	13	3	0.81	0.58	-0.23	0	0	0	0	0	0	0	0
4/17/2024 16:33	67605	WARW_T1	14	14	0	0.59	0.51	-0.08	-1.02	-1.04	0	0	0	0	0	0
4/17/2024 16:34	51402	LYKE_T1	16	1	-15	0.16	0.1	-0.06	-1.42	-1.44	1	1	0	600	600	0
4/17/2024 16:35	12102	SALL_T2	0	0	0	0	0	0	0.11	0.07	0	0	0	0	0	0
4/17/2024 16:41	46001	BERW_T1	0	0	0	0	0	0	0.57	0.51	0	0	0	0	0	0
4/17/2024 16:42	10602	BLGL_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
4/17/2024 16:43	41204	KENM_T2	0	0	0	0	0	0	0.15	0.19	0	0	0	0	0	0
4/17/2024 16:43	46001	BERW_T1	0	0	0	0	0	0	0.57	0.51	0	0	0	0	0	0
4/17/2024 16:43	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.44	-0.47	0	0	0	0	0	0
4/17/2024 16:43	41202	KENM_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/17/2024 16:43	46801	HEPB_T2	2	2	0	0.4	0.45	0.05	0.58	0.57	0	0	0	0	0	0
4/17/2024 16:43	67605	WARW_T1	14	14	0	0.59	0.51	-0.08	-1.04	-1.05	0	0	0	0	0	0
4/17/2024 16:44	20603	GRWO_T2	3	3	0	0.57	0.57	0	0.31	0.33	0	0	0	0	0	0
4/17/2024 16:45	40101	HUNT_T2	0	0	0	0	0	0	-0.87	-0.93	0	0	0	0	0	0
4/17/2024 16:46	46801	HEPB_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
4/17/2024 16:46	46803	HEPB_T2	0	0	0	0	0	0	0.39	0.43	0	0	0	0	0	0
4/17/2024 16:46	64305	LINC_T1	0	0	0	0	0	0	-0.1	-0.15	0	0	0	0	0	0
4/17/2024 16:47	46504	LOHA_T1	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
4/17/2024 16:47	46506	LOHA_T1	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
4/17/2024 16:47	47101	MARL_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
4/17/2024 16:48	67605	WARW_T1	14	11	-3	0.51	0.33	-0.18	-1.04	-1.05	0	0	0	0	0	0
4/17/2024 16:49	47001	HUGH_T2	375	406	31	1.73	1.74	0.01	0	0	0	0	0	0	0	0
4/17/2024 16:50	43201	MVIL_T2	2	3	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/17/2024 16:50	43202	MVIL_T2	94	99	5	0.97	1.11	0.14	-0.8	-0.82	0	0	0	0	0	0
4/17/2024 16:51	47403	PENS_T1	7	0	-7	0.34	0	-0.34	0	0	0	0	0	0	0	0
4/17/2024 16:51	47401	PENS_T1	4	1	-3	0.53	0.2	-0.33	1.24	1.09	0	0	0	0	0	0
4/17/2024 16:51	47402	PENS_T1	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/17/2024 16:52	47001	HUGH_T2	375	406	31	1.73	1.74	0.01	0	0	0	0	0	0	0	0
4/17/2024 16:54	47001	HUGH_T2	375	406	31	1.73	1.74	0.01	0	0	0	0	0	0	0	0
4/17/2024 16:58	67605	WARW_T1	14	11	-3	0.51	0.33	-0.18	-1.05	-1.06	0	0	0	0	0	0
4/17/2024 17:03	12505	MITR_T2	0	0	0	0	0	0	0.92	0.84	0	0	0	0	0	0
4/17/2024 17:03	67605	WARW_T1	11	10	-1	0.33	0.2	-0.13	-1.05	-1.06	0	0	0	0	0	0
4/17/2024 17:03	12502	MITR_T2	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
4/17/2024 17:03	47104	MARL_T1	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
4/17/2024 17:04	47001	HUGH_T2	377	406	29	1.74	1.83	0.09	0	0	0	0	0	0	0	0
4/17/2024 17:05	47001	HUGH_T2	377	406	29	1.74	1.83	0.09	0	0	0	0	0	0	0	0
4/17/2024 17:07	51002	NHAR_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
4/17/2024 17:07	51003	NHAR_T1	0	0	0	0	0	0	-2.27	-2.32	1	1	0	1200	1200	0
4/17/2024 17:07	51004	NHAR_T1	13	13	0	1.21	1.45	0.24	0	0	0	0	0	0	0	0
4/17/2024 17:07	45902	AUBU_T1	8	2	-6	0.44	0.5	0.06	-0.92	-0.95	1	1	0	600	600	0
4/17/2024 17:08	45902	AUBU_T1	8	2	-6	0.44	0.5	0.06	-0.95	-1.01	1	1	0	600	600	0
4/17/2024 17:10	47001	HUGH_T2	377	406	29	1.74	1.83	0.09	0	0	0	0	0	0	0	0
4/17/2024 17:12	45902	AUBU_T1	8	2	-6	0.44	0.5	0.06	-0.95	-1.01	1	1	0	600	600	0
4/17/2024 17:14	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
4/17/2024 17:15	11201	ELHE_T2	0	0	0	0	0	0	-0.06	-0.08	2	2	0	2400	2400	0
4/17/2024 17:16	64904	MILL_T1	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
4/17/2024 17:16	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
4/17/2024 17:17	24105	EHAZ_T1	4	4	0	6.18	6.35	0.17	0	0	0	0	0	0	0	0
4/17/2024 17:17	24102	EHAZ_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
4/17/2024 17:19	64601	LEOL_T1	0	0	0	0	0	0	-3.33	-3.26	2	2	0	2400	2400	0
4/17/2024 17:23	45902	AUBU_T1	2	6	4	0.5	0.1	-0.4	-1.01	-1.1	1	1	0	600	600	0
4/17/2024 17:23	45402	WBLO_T2	1	1	0	1	1.3	0.3	-0.84	-0.82	0	0	0	0	0	0
4/17/2024 17:24	43302	WATS_T2	4	4	0	0.93	0.73	-0.2	0	0	0	0	0	0	0	0
4/17/2024 17:24	43301	WATS_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
4/17/2024 17:26	61101	BERK_T5	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
4/17/2024 17:28	45902	AUBU_T1	2	6	4	0.5	0.1	-0.4	-1.01	-1.1	1	1	0	600	600	0
4/17/2024 17:31	63804	HEMP_T1	1	1	0	5.8	5.2	-0.6	0	0	0	0	0	0	0	0
4/17/2024 17:31	63802	HEMP_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
4/17/2024 17:34	63804	HEMP_T1	1	1	0	5.8	5.2	-0.6	0	0	0	0	0	0	0	0
4/17/2024 17:34	63802	HEMP_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
4/17/2024 17:36	15203	SFAR_T2	0	0	0	0	0	0	-1.55	-1.55	0	0	0	0	0	0
4/17/2024 17:39	15203	SFAR_T2	0	0	0	0	0	0	-3.1	-3.08	0	0	0	0	0	0
4/17/2024 17:44	45902	AUBU_T1	1	8	7	0.1	0.13	0.03	-1.1	-1.09	1	1	0	600	600	0
4/17/2024 17:47	54201	PENN_T1	6	8	2	0.73	0.76	0.03	0	0	0	0	0	0	0	0
4/17/2024 17:47	54203	PENN_T1	18	18	0	0.64	0.94	0.3	0.1	0.09	0	0	0	0	0	0
4/17/2024 17:48	54201	PENN_T1	6	8	2	0.73	0.76	0.03	0	0	0	0	0	0	0	0
4/17/2024 17:48	54203	PENN_T1	18	18	0	0.64	0.94	0.3	0.1	0.09	0	0	0	0	0	0
4/17/2024 17:49	45902	AUBU_T1	5	6	1	0.1	0.13	0.03	-1.1	-1.09	1	1	0	600	600	0
4/17/2024 17:49	54203	PENN_T1	18	18	0	0.64	0.94	0.3	0.1	0.09	0	0	0	0	0	0
4/17/2024 17:49	54201	PENN_T1	6	8	2	0.73	0.76	0.03	0.39	0.38	0	0	0	0	0	0
4/17/2024 17:51	58006	WCAR_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
4/17/2024 17:52	15203	SFAR_T2	0	0	0	0	0	0	-1.55	-1.54	0	0	0	0	0	0
4/17/2024 17:52	54201	PENN_T1	6	8	2	0.73	0.76	0.03	0	0	0	0	0	0	0	0
4/17/2024 17:52	54203	PENN_T1	18	18	0	0.64	0.94	0.3	0.1	0.09	0	0	0	0	0	0
4/17/2024 17:55	49804	UNIV_T1	2	1	-1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/17/2024 17:55	49803	UNIV_T1	0	0	0	0	0	0	-1.05	-1.14	0	0	0	0	0	0
4/17/2024 18:03	48302	ORWI_T2	2	2	0	1.75	1.7	-0.05	-0.07	-0.05	0	0	0	0	0	0
4/17/2024 18:19	41902	REED_T1	0	0	0	0	0	0	1.08	1.06	0	0	0	0	0	0
4/17/2024 18:19	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/17/2024 18:19	62102	ELAN_T1	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
4/17/2024 18:23	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/17/2024 18:23	62102	ELAN_T1	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
4/17/2024 18:24	51108	CARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/17/2024 18:24	51102	CARL_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/17/2024 18:24	51107	CARL_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
4/17/2024 18:26	10805	CHHI_T2	1	1	0	7.5	7.3	-0.2	-0.79	-0.8	0	0	0	0	0	0
4/17/2024 18:27	51108	CARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/17/2024 18:27	51107	CARL_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
4/17/2024 18:27	51102	CARL_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/17/2024 18:32	12002	HATF_T1	0	0	0	0	0	0	0.1	0.06	0	0	0	0	0	0
4/17/2024 18:34	41902	REED_T1	0	0	0	0	0	0	1.06	1.16	0	0	0	0	0	0
4/17/2024 18:34	41901	REED_T1	0	9	9	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 18:35	24102	EHAZ_T1	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
4/17/2024 18:35	24105	EHAZ_T1	4	4	0	6.33	6.28	-0.05	0	0	0	0	0	0	0	0
4/17/2024 18:38	15001	BLMO_T1	3	3	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/17/2024 18:39	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 18:39	40502	CRES_T2	0	3	3	0	0.1	0.1	0.55	0.54	0	0	0	0	0	0
4/17/2024 18:40	51004	NHAR_T1	13	13	0	1.06	0.92	-0.14	-0.4	-0.41	0	0	0	0	0	0
4/17/2024 18:40	51002	NHAR_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/17/2024 18:42	41502	FAIR_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
4/17/2024 18:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 18:44	40502	CRES_T2	0	3	3	0	0.1	0.1	0.55	0.54	0	0	0	0	0	0
4/17/2024 18:52	58006	WCAR_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
4/17/2024 19:04	47101	MARL_T1	0	0	0	0	0	0	-0.35	-0.39	0	0	0	0	0	0
4/17/2024 19:35	25503	MADI_T1	2	0	-2	0.15	0	-0.15	-1.03	-1	0	0	0	0	0	0
4/17/2024 20:08	66505	SMAN_T2	3	3	0	0.13	0.57	0.44	0	0	0	0	0	0	0	0
4/17/2024 20:08	66504	SMAN_T2	0	0	0	0	0	0	-1.05	-1.08	0	0	0	0	0	0
4/17/2024 20:08	66503	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 20:11	42002	MNVL_T2	1	1	0	2.6	2.5	-0.1	0	0	0	0	0	0	0	0
4/17/2024 20:11	42001	MNVL_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
4/17/2024 20:12	11801	FRAN_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/17/2024 20:19	14404	SSLA_T1	2	2	0	3.1	3.2	0.1	-0.01	-0.04	0	0	0	0	0	0
4/17/2024 20:22	46301	ROHR_T1	311	320	9	0.48	0.64	0.16	0	0	0	0	0	0	0	0
4/17/2024 20:22	46302	ROHR_T1	118	146	28	0.31	0.34	0.03	0.16	0.17	0	0	0	0	0	0
4/17/2024 20:23	14404	SSLA_T1	2	2	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
4/17/2024 20:23	14403	SSLA_T1	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
4/17/2024 20:24	14403	SSLA_T1	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
4/17/2024 20:24	14404	SSLA_T1	2	2	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
4/17/2024 20:25	46302	ROHR_T1	118	146	28	0.31	0.34	0.03	0.17	0.16	0	0	0	0	0	0
4/17/2024 20:25	14404	SSLA_T1	2	2	0	3.1	3.2	0.1	-0.04	-0.02	0	0	0	0	0	0
4/17/2024 20:25	46301	ROHR_T1	311	320	9	0.48	0.64	0.16	0.16	0.16	0	0	0	0	0	0
4/17/2024 20:27	46301	ROHR_T1	311	320	9	0.48	0.64	0.16	0.16	0.16	0	0	0	0	0	0
4/17/2024 20:27	46302	ROHR_T1	118	146	28	0.31	0.34	0.03	0	0	0	0	0	0	0	0
4/17/2024 20:34	46004	BERW_T2	0	0	0	0	0	0	-0.3	-0.39	0	0	0	0	0	0
4/17/2024 20:43	61102	BERK_T5	1	1	0	0.3	0.3	0	0.21	0.28	1	1	0	300	300	0
4/17/2024 20:46	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/17/2024 20:46	61102	BERK_T5	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/17/2024 20:47	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/17/2024 20:47	61102	BERK_T5	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/17/2024 20:47	64904	MILL_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
4/17/2024 20:48	45802	HEGI_T2	48	17	-31	1.7	0.35	-1.35	0.34	1.19	0	0	0	0	0	0
4/17/2024 20:49	64904	MILL_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
4/17/2024 20:58	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 21:00	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 21:18	47401	PENS_T1	1	1	0	1	0	-1	0.95	0.86	0	0	0	0	0	0
4/17/2024 21:19	60801	BUCK_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
4/17/2024 21:19	54205	PENN_T1	8	46	38	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/17/2024 21:19	54203	PENN_T1	42	169	127	0.69	0.3	-0.39	0	0	0	0	0	0	0	0
4/17/2024 21:19	54201	PENN_T1	18	40	22	0.77	0.49	-0.28	0.33	0.39	0	0	0	0	0	0
4/17/2024 21:19	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:20	61101	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:20	61102	BERK_T5	1	1	0	0.3	0.5	0.2	0.17	0.38	1	1	0	300	300	0
4/17/2024 21:20	47104	MARL_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
4/17/2024 21:20	61103	BERK_T5	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:21	54205	PENN_T1	8	46	38	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/17/2024 21:21	54203	PENN_T1	42	169	127	0.69	0.3	-0.39	0	0	0	0	0	0	0	0
4/17/2024 21:21	54201	PENN_T1	18	40	22	0.77	0.49	-0.28	0	0	0	0	0	0	0	0
4/17/2024 21:22	47103	MARL_T2	4	19	15	0.18	0.14	-0.04	-0.68	-0.67	0	0	0	0	0	0
4/17/2024 21:22	51004	NHAR_T1	8	13	5	1.14	1.36	0.22	-0.42	-0.46	0	0	0	0	0	0
4/17/2024 21:22	47102	MARL_T2	11	15	4	0.18	0.2	0.02	0	0	0	0	0	0	0	0
4/17/2024 21:22	51002	NHAR_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:22	51003	NHAR_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:23	44201	POIN_T1	461	611	150	0.36	0.43	0.07	-2.46	-2.52	2	2	0	2100	2100	0
4/17/2024 21:23	54203	PENN_T1	42	169	127	0.69	0.3	-0.39	0	0.03	0	0	0	0	0	0
4/17/2024 21:23	54205	PENN_T1	8	46	38	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/17/2024 21:23	54201	PENN_T1	18	40	22	0.77	0.49	-0.28	0	0	0	0	0	0	0	0
4/17/2024 21:24	52004	LING_T2	1	1	0	0.3	0.5	0.2	0.11	0.1	0	0	0	0	0	0
4/17/2024 21:24	52006	LING_T2	3	3	0	1.03	1.33	0.3	0	0	0	0	0	0	0	0
4/17/2024 21:24	44201	POIN_T1	461	611	150	0.36	0.43	0.07	-2.52	-2.45	2	2	0	2100	2100	0
4/17/2024 21:24	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 21:24	52002	LING_T2	1	1	0	1.4	1.7	0.3	0	0	0	0	0	0	0	0
4/17/2024 21:24	46004	BERW_T2	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
4/17/2024 21:25	42903	MIDD_T2	2	2	0	2.05	2.4	0.35	0	0	0	0	0	0	0	0
4/17/2024 21:25	42901	MIDD_T2	60	127	67	0.16	0.2	0.04	0	0	0	0	0	0	0	0
4/17/2024 21:25	49803	UNIV_T1	0	0	0	0	0	0	-1.17	-1.18	0	0	0	0	0	0
4/17/2024 21:25	42902	MIDD_T2	22	87	65	0.18	0.26	0.08	-0.36	-0.48	0	0	0	0	0	0
4/17/2024 21:25	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 21:25	41502	FAIR_T2	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
4/17/2024 21:26	54205	PENN_T1	8	46	38	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/17/2024 21:26	54601	SUMM_T2	13	13	0	0.82	0.93	0.11	-1.94	-1.95	2	2	0	2100	2100	0
4/17/2024 21:26	54602	SUMM_T2	1	6	5	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/17/2024 21:26	54201	PENN_T1	18	40	22	0.77	0.49	-0.28	0	0	0	0	0	0	0	0
4/17/2024 21:26	47401	PENS_T1	1	1	0	1	0	-1	0.86	0.97	0	0	0	0	0	0
4/17/2024 21:26	54203	PENN_T1	42	169	127	0.69	0.3	-0.39	0	0.03	0	0	0	0	0	0
4/17/2024 21:27	51002	NHAR_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:27	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:27	51003	NHAR_T1	0	3	3	0	0.1	0.1	-2.45	-2.41	1	1	0	1200	1200	0
4/17/2024 21:27	56802	BENV_T2	190	194	4	0.38	0.33	-0.05	-0.79	-0.86	0	0	0	0	0	0
4/17/2024 21:27	52002	LING_T2	1	1	0	1.4	1.7	0.3	0	0	0	0	0	0	0	0
4/17/2024 21:27	47401	PENS_T1	1	1	0	1	0	-1	1.72	1.94	0	0	0	0	0	0
4/17/2024 21:27	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
4/17/2024 21:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 21:27	44601	SALE_T2	1	1	0	0.7	0.6	-0.1	-0.1	-0.13	0	0	0	0	0	0
4/17/2024 21:27	51004	NHAR_T1	8	13	5	1.14	1.36	0.22	0	0	0	0	0	0	0	0
4/17/2024 21:27	41901	REED_T1	9	9	0	0.64	0.58	-0.06	0	0	0	0	0	0	0	0
4/17/2024 21:27	57002	WHHI_T2	0	0	0	0	0	0	-1.49	-1.5	1	1	0	1200	1200	0
4/17/2024 21:27	52004	LING_T2	1	1	0	0.3	0.5	0.2	0.11	0.1	0	0	0	0	0	0
4/17/2024 21:27	52006	LING_T2	3	3	0	1.03	1.33	0.3	0	0	0	0	0	0	0	0
4/17/2024 21:27	41902	REED_T1	0	0	0	0	0	0	0.88	0.84	0	0	0	0	0	0
4/17/2024 21:28	56802	BENV_T2	190	194	4	0.38	0.33	-0.05	-0.79	-0.86	0	0	0	0	0	0
4/17/2024 21:28	54501	ENOL_T2	4	4	0	0.3	0.68	0.38	0	0	0	0	0	0	0	0
4/17/2024 21:28	48302	ORWI_T2	2	2	0	1.1	1.3	0.2	-0.15	-0.12	0	0	0	0	0	0
4/17/2024 21:28	42903	MIDD_T2	2	2	0	2.05	2.4	0.35	0	0	0	0	0	0	0	0
4/17/2024 21:28	42902	MIDD_T2	22	87	65	0.18	0.26	0.08	-0.36	-0.48	0	0	0	0	0	0
4/17/2024 21:28	40101	HUNT_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
4/17/2024 21:28	54503	ENOL_T2	0	0	0	0	0	0	-1.24	-1.25	1	1	0	600	600	0
4/17/2024 21:28	54505	ENOL_T2	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:28	47401	PENS_T1	1	1	0	1	0	-1	0.86	0.97	0	0	0	0	0	0
4/17/2024 21:28	42901	MIDD_T2	60	127	67	0.16	0.2	0.04	0	0	0	0	0	0	0	0
4/17/2024 21:28	54502	ENOL_T2	13	39	26	0.16	0.38	0.22	0	0	0	0	0	0	0	0
4/17/2024 21:28	51304	WIND_T2	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
4/17/2024 21:28	44201	POIN_T1	461	611	150	0.36	0.43	0.07	-2.52	-2.45	2	2	0	2100	2100	0
4/17/2024 21:29	47102	MARL_T2	11	15	4	0.18	0.2	0.02	0	0	0	0	0	0	0	0
4/17/2024 21:29	47101	MARL_T1	0	0	0	0	0	0	-0.17	-0.29	0	0	0	0	0	0
4/17/2024 21:29	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
4/17/2024 21:29	24902	WHHA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 21:29	54203	PENN_T1	42	169	127	0.69	0.3	-0.39	0	0.03	0	0	0	0	0	0
4/17/2024 21:29	54201	PENN_T1	18	40	22	0.77	0.49	-0.28	0	0	0	0	0	0	0	0
4/17/2024 21:29	54205	PENN_T1	8	46	38	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/17/2024 21:29	54602	SUMM_T2	1	6	5	0.1	0.18	0.08	-2.48	-2.5	1	1	0	600	600	0
4/17/2024 21:29	45801	HEGI_T1	0	0	0	0	0	0	-0.21	-0.19	1	1	0	900	900	0
4/17/2024 21:29	51401	LYKE_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
4/17/2024 21:29	47103	MARL_T2	4	19	15	0.18	0.14	-0.04	-0.67	-0.67	0	0	0	0	0	0
4/17/2024 21:29	24901	WHHA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/17/2024 21:29	45901	AUBU_T1	0	0	0	0	0	0	1.76	1.73	0	0	0	0	0	0
4/17/2024 21:29	54502	ENOL_T2	13	39	26	0.16	0.38	0.22	0	0	0	0	0	0	0	0
4/17/2024 21:29	54505	ENOL_T2	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:29	54601	SUMM_T2	13	13	0	0.82	0.93	0.11	-1.94	-1.95	2	2	0	2100	2100	0
4/17/2024 21:29	45902	AUBU_T1	7	0	-7	0.14	0	-0.14	0	0	0	0	0	0	0	0
4/17/2024 21:29	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
4/17/2024 21:29	54501	ENOL_T2	4	4	0	0.3	0.68	0.38	-0.57	-0.55	1	1	0	600	600	0
4/17/2024 21:30	43301	WATS_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
4/17/2024 21:30	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.61	0	0	0	0	0	0
4/17/2024 21:30	53501	EVIL_T2	2	3	1	0.6	0.63	0.03	-0.95	-0.97	1	1	0	600	600	0
4/17/2024 21:30	43201	MVIL_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:30	43302	WATS_T2	4	4	0	1	1.08	0.08	0	0	0	0	0	0	0	0
4/17/2024 21:30	50103	HARR_T3	2	2	0	1.15	0.5	-0.65	-0.78	-0.74	1	1	0	1200	1200	0
4/17/2024 21:30	65502	MOJO_T2	0	18	18	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:30	65503	MOJO_T2	12	10	-2	0.17	0.15	-0.02	-0.45	-0.51	0	0	0	0	0	0
4/17/2024 21:30	60501	NMAN_T2	17	31	14	1.17	0.72	-0.45	0	0	0	0	0	0	0	0
4/17/2024 21:30	42401	GIMA_T1	126	159	33	0.35	0.41	0.06	0	0	0	0	0	0	0	0
4/17/2024 21:30	43202	MVIL_T2	139	181	42	0.65	0.96	0.31	-0.74	-0.77	0	0	0	0	0	0
4/17/2024 21:30	45901	AUBU_T1	0	0	0	0	0	0	1.76	1.73	0	0	0	0	0	0
4/17/2024 21:30	46001	BERW_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
4/17/2024 21:30	50105	HARR_T3	6	6	0	5.9	5.9	0	0	0	0	0	0	0	0	0
4/17/2024 21:30	54603	SUMM_T2	0	0	0	0	0	0	0.21	0.13	1	1	0	900	900	0
4/17/2024 21:30	50102	HARR_T3	10	11	1	0.13	0.17	0.04	0	0	0	0	0	0	0	0
4/17/2024 21:30	46102	MACI_T1	324	339	15	0.6	0.63	0.03	0.33	0.31	0	0	0	0	0	0
4/17/2024 21:30	64702	LITI_T2	0	0	0	0	0	0	-0.68	-0.61	0	0	0	0	0	0
4/17/2024 21:30	50202	HARR_T3	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:30	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/17/2024 21:30	54602	SUMM_T2	0	7	7	0	0.17	0.17	0	0	0	0	0	0	0	0
4/17/2024 21:30	60502	NMAN_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
4/17/2024 21:30	50201	HARR_T3	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:30	54601	SUMM_T2	13	13	0	0.9	1.05	0.15	0	0	0	0	0	0	0	0
4/17/2024 21:31	41204	KENM_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
4/17/2024 21:31	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.61	0	0	0	0	0	0
4/17/2024 21:31	54501	ENOL_T2	4	4	0	0.4	0.78	0.38	0	0	0	0	0	0	0	0
4/17/2024 21:31	41202	KENM_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:31	52002	LING_T2	1	1	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:31	52004	LING_T2	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/17/2024 21:31	54505	ENOL_T2	1	1	0	1.3	1.5	0.2	-1.4	-1.4	1	1	0	600	600	0
4/17/2024 21:31	54502	ENOL_T2	25	57	32	0.2	0.34	0.14	0	0	0	0	0	0	0	0
4/17/2024 21:31	52006	LING_T2	3	3	0	1.07	1.5	0.43	0	0	0	0	0	0	0	0
4/17/2024 21:31	45901	AUBU_T1	0	0	0	0	0	0	1.76	1.73	0	0	0	0	0	0
4/17/2024 21:32	54501	ENOL_T2	4	4	0	0.4	0.78	0.38	-0.57	-0.55	1	1	0	600	600	0
4/17/2024 21:32	47401	PENS_T1	1	0	-1	1	0	-1	0.86	0.97	0	0	0	0	0	0
4/17/2024 21:32	60501	NMAN_T2	17	31	14	1.17	0.72	-0.45	0	0	0	0	0	0	0	0
4/17/2024 21:32	40502	CRES_T2	3	11	8	0.1	0.16	0.06	0.52	0.51	0	0	0	0	0	0
4/17/2024 21:32	53501	EVIL_T2	2	3	1	0.6	0.63	0.03	0	0	0	0	0	0	0	0
4/17/2024 21:32	54502	ENOL_T2	25	57	32	0.2	0.34	0.14	0	0	0	0	0	0	0	0
4/17/2024 21:32	53502	EVIL_T2	0	0	0	0	0	0	0.61	0.63	0	0	0	0	0	0
4/17/2024 21:32	51402	LYKE_T1	0	0	0	0	0	0	-1.49	-1.49	1	1	0	600	600	0
4/17/2024 21:32	46001	BERW_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
4/17/2024 21:32	12803	MICK_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/17/2024 21:32	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
4/17/2024 21:32	65502	MOJO_T2	0	18	18	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:32	11504	FREE_T1	0	0	0	0	0	0	-1.59	-1.63	1	1	0	1200	1200	0
4/17/2024 21:32	67605	WARW_T1	18	38	20	0.53	0.51	-0.02	-1.27	-1.26	0	0	0	0	0	0
4/17/2024 21:32	65503	MOJO_T2	12	10	-2	0.17	0.15	-0.02	-0.45	-0.51	0	0	0	0	0	0
4/17/2024 21:32	45902	AUBU_T1	0	0	0	0	0	0	-1.71	-1.84	0	0	0	0	0	0
4/17/2024 21:32	29402	BELT_T1	1	1	0	7.1	7.5	0.4	0	0	0	0	0	0	0	0
4/17/2024 21:32	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 21:32	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/17/2024 21:32	54505	ENOL_T2	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:32	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 21:32	12801	MICK_T1	0	0	0	0	0	0	-0.27	-0.24	1	1	0	600	600	0
4/17/2024 21:32	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/17/2024 21:32	44201	POIN_T1	527	597	70	0.41	0.42	0.01	-2.52	-2.45	2	2	0	2100	2100	0
4/17/2024 21:32	60502	NMAN_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
4/17/2024 21:33	42901	MIDD_T2	69	198	129	0.16	0.32	0.16	0	0	0	0	0	0	0	0
4/17/2024 21:33	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 21:33	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/17/2024 21:33	52006	LING_T2	3	3	0	1.07	1.5	0.43	0	0	0	0	0	0	0	0
4/17/2024 21:33	23001	SAIO_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
4/17/2024 21:33	40101	HUNT_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
4/17/2024 21:33	29402	BELT_T1	1	1	0	7.1	7.5	0.4	0	0	0	0	0	0	0	0
4/17/2024 21:33	49804	UNIV_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
4/17/2024 21:33	42903	MIDD_T2	2	8	6	2.1	0.75	-1.35	0	0	0	0	0	0	0	0
4/17/2024 21:33	42902	MIDD_T2	42	133	91	0.18	0.39	0.21	-0.36	-0.48	0	0	0	0	0	0
4/17/2024 21:33	64702	LITI_T2	0	0	0	0	0	0	-0.68	-0.61	0	0	0	0	0	0
4/17/2024 21:33	44302	BEAV_T2	0	6	6	0	0.1	0.1	0.24	0.24	0	0	0	0	0	0
4/17/2024 21:33	45501	DERR_T2	0	1	1	0	0.1	0.1	0.6	0.23	2	2	0	1800	1800	0
4/17/2024 21:33	52002	LING_T2	1	1	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:33	52004	LING_T2	1	2	1	0.3	0.45	0.15	0.11	0.1	0	0	0	0	0	0
4/17/2024 21:33	41802	GOCI_T2	15	22	7	0.18	0.27	0.09	0	0	0	0	0	0	0	0
4/17/2024 21:33	20401	ASHF_T2	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
4/17/2024 21:33	41801	GOCI_T2	16	156	140	0.19	0.29	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:33	43301	WATS_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
4/17/2024 21:33	40502	CRES_T2	3	11	8	0.1	0.16	0.06	0.52	0.51	0	0	0	0	0	0
4/17/2024 21:33	43302	WATS_T2	4	4	0	1	1.08	0.08	0	0	0	0	0	0	0	0
4/17/2024 21:34	67603	WARW_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
4/17/2024 21:34	24901	WHHA_T1	1	18	17	0.1	0.12	0.02	0	0	0	0	0	0	0	0
4/17/2024 21:34	42902	MIDD_T2	42	133	91	0.18	0.39	0.21	-0.36	-0.48	0	0	0	0	0	0
4/17/2024 21:34	59301	MCAL_T1	2	1	-1	1	0.2	-0.8	0	0	0	0	0	0	0	0
4/17/2024 21:34	42903	MIDD_T2	2	8	6	2.1	0.75	-1.35	0	0	0	0	0	0	0	0
4/17/2024 21:34	13501	MCMI_T1	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
4/17/2024 21:34	14201	EALL_T1	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
4/17/2024 21:34	45801	HEGI_T1	0	0	0	0	0	0	-0.21	-0.19	1	1	0	900	900	0
4/17/2024 21:34	66503	SMAN_T2	11	20	9	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
4/17/2024 21:34	67605	WARW_T1	18	38	20	0.53	0.51	-0.02	0	0	0	0	0	0	0	0
4/17/2024 21:34	20403	ASHF_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
4/17/2024 21:34	24902	WHHA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 21:34	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.61	0	0	0	0	0	0
4/17/2024 21:34	42901	MIDD_T2	69	198	129	0.16	0.32	0.16	0	0	0	0	0	0	0	0
4/17/2024 21:34	64702	LITI_T2	0	0	0	0	0	0	-0.68	-0.61	0	0	0	0	0	0
4/17/2024 21:34	66502	SMAN_T2	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
4/17/2024 21:34	44902	SCOT_T2	0	0	0	0	0	0	-0.88	-0.93	0	0	0	0	0	0
4/17/2024 21:34	46002	BERW_T2	0	0	0	0	0	0	-1.16	-1.16	1	1	0	900	900	0
4/17/2024 21:34	66501	SMAN_T2	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/17/2024 21:34	59302	MCAL_T1	1	1	0	0.4	0.5	0.1	-0.37	-0.33	1	1	0	600	600	0
4/17/2024 21:35	42902	MIDD_T2	42	133	91	0.18	0.39	0.21	-0.36	-0.48	0	0	0	0	0	0
4/17/2024 21:35	44302	BEAV_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:35	13807	SALI_T1	5	11	6	0.12	0.11	-0.01	0.12	0.12	0	0	0	0	0	0
4/17/2024 21:35	51603	DUKE_T1	2	2	0	0.45	0.75	0.3	-0.44	-0.45	0	0	0	0	0	0
4/17/2024 21:35	15203	SFAR_T2	0	0	0	0	0	0	-1.62	-1.63	0	0	0	0	0	0
4/17/2024 21:35	10805	CHHI_T2	1	1	0	7.7	7.4	-0.3	-0.79	-0.74	0	0	0	0	0	0
4/17/2024 21:35	29402	BELT_T1	1	1	0	7.1	7.5	0.4	0	0	0	0	0	0	0	0
4/17/2024 21:35	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/17/2024 21:35	45501	DERR_T2	0	1	1	0	0.1	0.1	0.6	0.23	2	2	0	1800	1800	0
4/17/2024 21:35	42901	MIDD_T2	69	198	129	0.16	0.32	0.16	0	0	0	0	0	0	0	0
4/17/2024 21:35	51303	WIND_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:35	14705	TREX_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
4/17/2024 21:35	60101	COCA_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
4/17/2024 21:35	13802	SALI_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:35	44301	BEAV_T2	0	0	0	0	0	0	0.67	0.68	1	1	0	600	600	0
4/17/2024 21:35	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 21:35	42903	MIDD_T2	2	8	6	2.1	0.75	-1.35	0	0	0	0	0	0	0	0
4/17/2024 21:35	24702	FLND_T2	0	0	0	0	0	0	0.98	0.98	0	0	0	0	0	0
4/17/2024 21:35	13805	SALI_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:36	65702	RVIL_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
4/17/2024 21:36	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 21:36	43201	MVIL_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:36	63801	HEMP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:36	63802	HEMP_T1	0	2	2	0	0.1	0.1	0.1	0.15	0	0	0	0	0	0
4/17/2024 21:36	43202	MVIL_T2	139	181	42	0.65	0.96	0.31	-0.74	-0.77	0	0	0	0	0	0
4/17/2024 21:36	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/17/2024 21:36	10602	BLGL_T2	0	0	0	0	0	0	0.01	0.22	0	0	0	0	0	0
4/17/2024 21:36	13901	SEID_T1	0	0	0	0	0	0	0.39	0.44	0	0	0	0	0	0
4/17/2024 21:36	63803	HEMP_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:36	63804	HEMP_T1	1	5	4	5.7	1.18	-4.52	0	0	0	0	0	0	0	0
4/17/2024 21:37	44302	BEAV_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:37	20403	ASHF_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
4/17/2024 21:37	60501	NMAN_T2	17	31	14	1.17	0.72	-0.45	0	0	0	0	0	0	0	0
4/17/2024 21:37	17002	RIRO_T2	291	457	166	0.25	0.32	0.07	0.29	0.27	0	0	0	0	0	0
4/17/2024 21:37	64101	REFR_T1	0	0	0	0	0	0	-1.99	-2.08	0	0	0	0	0	0
4/17/2024 21:37	61506	EPET_T2	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
4/17/2024 21:37	15203	SFAR_T2	0	0	0	0	0	0	-1.62	-1.63	0	0	0	0	0	0
4/17/2024 21:37	40101	HUNT_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
4/17/2024 21:37	52006	LING_T2	3	3	0	1.07	1.5	0.43	0	0	0	0	0	0	0	0
4/17/2024 21:37	67605	WARW_T1	18	38	20	0.53	0.51	-0.02	-1.27	-1.26	0	0	0	0	0	0
4/17/2024 21:37	63403	HONY_T2	0	0	0	0	0	0	0.11	0.07	0	0	0	0	0	0
4/17/2024 21:37	62105	ELAN_T1	2	76	74	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
4/17/2024 21:37	60502	NMAN_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
4/17/2024 21:37	52002	LING_T2	1	1	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:37	65503	MOJO_T2	12	10	-2	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
4/17/2024 21:37	65502	MOJO_T2	0	18	18	0	0.1	0.1	-0.8	-0.89	0	0	0	0	0	0
4/17/2024 21:37	62106	ELAN_T1	2	7	5	0.15	0.21	0.06	0	0	0	0	0	0	0	0
4/17/2024 21:37	67703	WERN_T2	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
4/17/2024 21:37	60101	COCA_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
4/17/2024 21:37	63402	HONY_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
4/17/2024 21:37	44301	BEAV_T2	0	0	0	0	0	0	0.67	0.68	1	1	0	600	600	0
4/17/2024 21:37	10801	CHHI_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
4/17/2024 21:37	62102	ELAN_T1	0	0	0	0	0	0	0.56	0.6	0	0	0	0	0	0
4/17/2024 21:37	65501	MOJO_T1	0	0	0	0	0	0	-0.58	-0.61	1	1	0	900	900	0
4/17/2024 21:37	64902	MILL_T2	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
4/17/2024 21:37	62103	ELAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:37	52004	LING_T2	1	2	1	0.3	0.45	0.15	0.11	0.1	0	0	0	0	0	0
4/17/2024 21:37	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:37	65702	RVIL_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
4/17/2024 21:38	63803	HEMP_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:38	64101	REFR_T1	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
4/17/2024 21:38	62605	ENGL_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
4/17/2024 21:38	61103	BERK_T5	0	19	19	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:38	16301	ALPA_T1	14	56	42	0.15	0.15	0	-0.53	-0.56	0	0	0	0	0	0
4/17/2024 21:38	66503	SMAN_T2	11	20	9	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
4/17/2024 21:38	14204	EALL_T2	0	0	0	0	0	0	-0.53	-0.43	0	0	0	0	0	0
4/17/2024 21:38	66501	SMAN_T2	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/17/2024 21:38	61101	BERK_T5	1	1	0	0.1	0.4	0.3	-0.7	-0.71	0	0	0	0	0	0
4/17/2024 21:38	63801	HEMP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:38	63802	HEMP_T1	0	2	2	0	0.1	0.1	0.15	0.07	0	0	0	0	0	0
4/17/2024 21:38	44601	SALE_T2	1	1	0	0.6	1	0.4	-0.1	-0.13	0	0	0	0	0	0
4/17/2024 21:38	63804	HEMP_T1	1	5	4	5.7	1.18	-4.52	0	0	0	0	0	0	0	0
4/17/2024 21:38	66502	SMAN_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
4/17/2024 21:38	45602	WOOL_T1	3	3	0	0.33	1.1	0.77	0.35	0.35	0	0	0	0	0	0
4/17/2024 21:38	61102	BERK_T5	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:38	56802	BENV_T2	169	210	41	0.35	0.34	-0.01	-0.86	-0.91	0	0	0	0	0	0
4/17/2024 21:39	63802	HEMP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:39	62103	ELAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:39	14601	SWHI_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
4/17/2024 21:39	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:39	62102	ELAN_T1	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
4/17/2024 21:39	11504	FREE_T1	0	0	0	0	0	0	-1.63	-1.63	1	1	0	1200	1200	0
4/17/2024 21:39	63401	HONY_T1	2	2	0	1	0	-1	0.56	0.45	0	0	0	0	0	0
4/17/2024 21:39	24602	VARD_T2	797	871	74	1.02	1.29	0.27	-1.14	-1.14	0	0	0	0	0	0
4/17/2024 21:39	62105	ELAN_T1	2	76	74	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
4/17/2024 21:39	62106	ELAN_T1	2	7	5	0.15	0.21	0.06	0	0	0	0	0	0	0	0
4/17/2024 21:39	12102	SALL_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
4/17/2024 21:39	63804	HEMP_T1	1	5	4	5.7	1.18	-4.52	0	0	0	0	0	0	0	0
4/17/2024 21:39	42802	SELI_T1	0	1	1	0	0.2	0.2	-0.12	-0.16	0	0	0	0	0	0
4/17/2024 21:39	24603	VARD_T2	55	260	205	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:39	14602	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:39	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 21:39	63305	GREE_T1	0	3	3	0	0.17	0.17	-1.23	-1.24	0	0	0	0	0	0
4/17/2024 21:39	63801	HEMP_T1	0	2	2	0	0.1	0.1	0.03	0.08	0	0	0	0	0	0
4/17/2024 21:39	63404	HONY_T1	146	157	11	0.4	0.43	0.03	0	0	0	0	0	0	0	0
4/17/2024 21:39	63803	HEMP_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:40	45701	LIND_T2	0	0	0	0	0	0	0.33	0.26	0	0	0	0	0	0
4/17/2024 21:40	62102	ELAN_T1	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
4/17/2024 21:40	23404	HONE_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:40	45702	LIND_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
4/17/2024 21:40	59201	THOM_T1	5	12	7	0.18	0.19	0.01	0	0	0	0	0	0	0	0
4/17/2024 21:40	64902	MILL_T2	0	0	0	0	0	0	0.19	0.22	0	0	0	0	0	0
4/17/2024 21:40	62104	ELAN_T1	0	0	0	0	0	0	1.24	1.03	2	2	0	2400	2400	0
4/17/2024 21:40	26704	HEML_T2	32	67	35	0.13	0.21	0.08	-0.98	-0.96	1	1	0	1200	1200	0
4/17/2024 21:40	65803	RTWN_T2	4	9	5	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/17/2024 21:40	65702	RVIL_T2	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
4/17/2024 21:40	62601	ENGL_T1	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
4/17/2024 21:40	46001	BERW_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
4/17/2024 21:40	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:40	54501	ENOL_T2	4	4	0	0.4	0.78	0.38	0	0	0	0	0	0	0	0
4/17/2024 21:40	54502	ENOL_T2	25	57	32	0.2	0.34	0.14	0	0	0	0	0	0	0	0
4/17/2024 21:40	60902	DONG_T2	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
4/17/2024 21:40	62105	ELAN_T1	2	76	74	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
4/17/2024 21:40	14702	TREX_T2	0	0	0	0	0	0	0.89	0.83	0	0	0	0	0	0
4/17/2024 21:40	59202	THOM_T1	161	207	46	0.18	0.2	0.02	0	0	0	0	0	0	0	0
4/17/2024 21:40	54505	ENOL_T2	1	1	0	1.3	1.5	0.2	-1.4	-1.42	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/17/2024 21:40	62106	ELAN_T1	2	7	5	0.15	0.21	0.06	0	0	0	0	0	0	0	0
4/17/2024 21:40	62103	ELAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:40	65901	SAKR_T2	0	0	0	0	0	0	-1.45	-1.43	1	1	0	900	900	0
4/17/2024 21:40	66501	SMAN_T2	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/17/2024 21:40	66503	SMAN_T2	11	20	9	0.15	0.14	-0.01	0.3	0.3	0	0	0	0	0	0
4/17/2024 21:40	65802	RTWN_T2	0	15	15	0	0.1	0.1	-1.16	-1.16	0	0	0	0	0	0
4/17/2024 21:40	23403	HONE_T1	0	11	11	0	0.11	0.11	-0.84	-0.81	0	0	0	0	0	0
4/17/2024 21:40	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
4/17/2024 21:41	61102	BERK_T5	1	1	0	0.4	0.6	0.2	0.13	0.16	1	1	0	300	300	0
4/17/2024 21:41	48302	ORWI_T2	2	2	0	1.15	1.45	0.3	-0.12	-0.16	0	0	0	0	0	0
4/17/2024 21:41	28703	HAML_T2	3	3	0	0.93	1.07	0.14	0	0	0	0	0	0	0	0
4/17/2024 21:41	12505	MITR_T2	0	0	0	0	0	0	0.72	0.65	0	0	0	0	0	0
4/17/2024 21:41	61101	BERK_T5	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/17/2024 21:41	12502	MITR_T2	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
4/17/2024 21:41	67505	WEWI_T1	0	0	0	0	0	0	-0.26	-0.26	1	1	0	900	900	0
4/17/2024 21:41	13303	ORVI_T1	0	0	0	0	0	0	0.83	0.77	0	0	0	0	0	0
4/17/2024 21:41	62106	ELAN_T1	2	7	5	0.15	0.21	0.06	0	0	0	0	0	0	0	0
4/17/2024 21:41	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 21:41	59101	WALK_T2	0	0	0	0	0	0	1.37	1.05	0	0	0	0	0	0
4/17/2024 21:41	62105	ELAN_T1	2	76	74	0.15	0.12	-0.03	0.37	0.36	0	0	0	0	0	0
4/17/2024 21:41	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:41	67502	WEWI_T2	0	125	125	0	0.2	0.2	-0.56	-0.54	0	0	0	0	0	0
4/17/2024 21:41	61103	BERK_T5	0	19	19	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:41	51204	MTON_T2	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
4/17/2024 21:41	17401	FOHI_T1	0	0	0	0	0	0	-2.08	-2.12	0	0	0	0	0	0
4/17/2024 21:41	62102	ELAN_T1	0	0	0	0	0	0	1.79	1.9	0	0	0	0	0	0
4/17/2024 21:41	62103	ELAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:41	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.16	0	0	0	0	0	0
4/17/2024 21:41	63305	GREE_T1	0	3	3	0	0.17	0.17	-1.23	-1.24	0	0	0	0	0	0
4/17/2024 21:41	47401	PENS_T1	1	0	-1	1	0	-1	0.97	0.9	0	0	0	0	0	0
4/17/2024 21:41	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/17/2024 21:41	28704	HAML_T2	1	1	0	0.4	0.5	0.1	-0.01	-0.01	0	0	0	0	0	0
4/17/2024 21:41	60803	BUCK_T1	0	5	5	0	0.12	0.12	-1.25	-1.25	1	1	0	600	600	0
4/17/2024 21:41	14702	TREX_T2	0	0	0	0	0	0	0.89	0.83	0	0	0	0	0	0
4/17/2024 21:41	67703	WERN_T2	0	0	0	0	0	0	1.28	1.22	0	0	0	0	0	0
4/17/2024 21:42	10901	COOP_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
4/17/2024 21:42	10805	CHHI_T2	1	1	0	7.7	7.4	-0.3	-1.48	-1.62	0	0	0	0	0	0
4/17/2024 21:42	64601	LEOL_T1	0	0	0	0	0	0	-0.89	-0.96	0	0	0	0	0	0
4/17/2024 21:42	58006	WCAR_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
4/17/2024 21:42	61101	BERK_T5	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/17/2024 21:42	61103	BERK_T5	0	19	19	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/17/2024 21:42	60803	BUCK_T1	0	5	5	0	0.12	0.12	-1.25	-1.25	1	1	0	600	600	0
4/17/2024 21:42	46001	BERW_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
4/17/2024 21:42	61102	BERK_T5	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:42	65702	RVIL_T2	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
4/17/2024 21:42	10903	COOP_T2	6	19	13	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/17/2024 21:42	15603	NSTR_T2	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
4/17/2024 21:42	55105	WERT_T1	0	3	3	0	0.1	0.1	0	0	2	2	0	1800	1800	0
4/17/2024 21:42	15001	BLMO_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:42	15601	NSTR_T2	3	3	0	0.33	0.93	0.6	0	0	0	0	0	0	0	0
4/17/2024 21:43	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 21:43	61101	BERK_T5	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/17/2024 21:43	51107	CARL_T1	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
4/17/2024 21:43	61103	BERK_T5	0	19	19	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/17/2024 21:43	59202	THOM_T1	161	207	46	0.18	0.2	0.02	0	0	0	0	0	0	0	0
4/17/2024 21:43	51108	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/17/2024 21:43	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 21:43	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
4/17/2024 21:43	41801	GOCI_T2	16	156	140	0.19	0.29	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:43	59201	THOM_T1	5	12	7	0.18	0.19	0.01	0	0	0	0	0	0	0	0
4/17/2024 21:43	51102	CARL_T1	146	99	-47	0.33	0.21	-0.12	0	0	0	0	0	0	0	0
4/17/2024 21:43	20403	ASHF_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
4/17/2024 21:43	13302	ORVI_T2	0	0	0	0	0	0	1.08	1.18	0	0	0	0	0	0
4/17/2024 21:43	10801	CHHI_T1	0	0	0	0	0	0	-0.95	-0.97	1	1	0	900	900	0
4/17/2024 21:43	41802	GOCI_T2	15	22	7	0.18	0.27	0.09	0	0	0	0	0	0	0	0
4/17/2024 21:43	16301	ALPA_T1	14	56	42	0.15	0.15	0	-0.56	-0.57	0	0	0	0	0	0
4/17/2024 21:43	11805	FRAN_T1	0	0	0	0	0	0	-1.37	-1.39	1	1	0	1200	1200	0
4/17/2024 21:43	61102	BERK_T5	1	1	0	0.4	0.6	0.2	0.13	0.16	1	1	0	300	300	0
4/17/2024 21:43	45702	LIND_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
4/17/2024 21:43	15203	SFAR_T2	0	0	0	0	0	0	-1.63	-1.63	0	0	0	0	0	0
4/17/2024 21:43	45701	LIND_T2	0	0	0	0	0	0	0.33	0.26	0	0	0	0	0	0
4/17/2024 21:43	51101	CARL_T1	0	0	0	0	0	0	-0.81	-0.84	0	0	0	0	0	0
4/17/2024 21:43	20603	GRWO_T2	4	3	-1	0.1	0.1	0	0.33	0.28	0	0	0	0	0	0
4/17/2024 21:44	26002	WDAM_T1	9	6	-3	0.32	0.38	0.06	0	0	0	0	0	0	0	0
4/17/2024 21:44	62106	ELAN_T1	2	7	5	0.15	0.21	0.06	0	0	0	0	0	0	0	0
4/17/2024 21:44	26001	WDAM_T1	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
4/17/2024 21:44	12102	SALL_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
4/17/2024 21:44	58402	MORO_T1	0	0	0	0	0	0	-0.28	-0.28	2	2	0	1500	1500	0
4/17/2024 21:44	14702	TREX_T2	0	0	0	0	0	0	2.68	2.49	0	0	0	0	0	0
4/17/2024 21:44	46801	HEPB_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:44	62103	ELAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:44	46803	HEPB_T2	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
4/17/2024 21:44	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:44	62105	ELAN_T1	2	76	74	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
4/17/2024 21:44	62102	ELAN_T1	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
4/17/2024 21:45	59201	THOM_T1	11	12	1	0.18	0.18	0	0	0	0	0	0	0	0	0
4/17/2024 21:45	58402	MORO_T1	0	0	0	0	0	0	-0.28	-0.28	2	2	0	1500	1500	0
4/17/2024 21:45	22003	BOHE_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:45	61103	BERK_T5	6	19	13	0.1	0.1	0	-0.01	-0.01	0	0	0	0	0	0
4/17/2024 21:45	44201	POIN_T1	596	363	-233	0.42	0.27	-0.15	-2.45	-1.52	2	1	-1	2100	1200	-900
4/17/2024 21:45	51102	CARL_T1	90	88	-2	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
4/17/2024 21:45	61101	BERK_T5	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:45	13704	SCHN_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
4/17/2024 21:45	59202	THOM_T1	142	198	56	0.2	0.2	0	0	0	0	0	0	0	0	0
4/17/2024 21:45	14602	SWHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/17/2024 21:45	22602	KIMB_T1	1	1	0	0.1	0.4	0.3	0.32	0.31	0	0	0	0	0	0
4/17/2024 21:45	43201	MVIL_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:45	61102	BERK_T5	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:45	51101	CARL_T1	0	0	0	0	0	0	-0.81	-0.84	0	0	0	0	0	0
4/17/2024 21:45	14603	SWHI_T1	0	0	0	0	0	0	-1.1	-1.12	1	1	0	600	600	0
4/17/2024 21:45	56802	BENV_T2	170	207	37	0.25	0.33	0.08	-0.86	-0.91	0	0	0	0	0	0
4/17/2024 21:45	44902	SCOT_T2	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
4/17/2024 21:45	43202	MVIL_T2	180	185	5	0.95	1.04	0.09	-0.77	-0.77	0	0	0	0	0	0
4/17/2024 21:45	14705	TREX_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
4/17/2024 21:45	51104	CARL_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/17/2024 21:46	67201	TEHI_T1	66	67	1	0.43	0.47	0.04	0	0	0	0	0	0	0	0
4/17/2024 21:46	44302	BEAV_T2	0	81	81	0	0.22	0.22	0.24	0.23	0	0	0	0	0	0
4/17/2024 21:46	61103	BERK_T5	6	19	13	0.1	0.1	0	0	0	0	0	0	0	0	0
4/17/2024 21:46	12002	HATF_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
4/17/2024 21:46	61102	BERK_T5	1	1	0	0.5	0.6	0.1	0.13	0.16	1	1	0	300	300	0
4/17/2024 21:46	61101	BERK_T5	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:46	44301	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:46	67203	TEHI_T1	0	0	0	0	0	0	2	2	2	2	0	1500	1500	0
4/17/2024 21:46	58006	WCAR_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
4/17/2024 21:46	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.16	0	0	0	0	0	0
4/17/2024 21:47	46801	HEPB_T2	2	2	0	0.4	0.7	0.3	0.54	0.55	0	0	0	0	0	0
4/17/2024 21:47	13704	SCHN_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
4/17/2024 21:47	12006	HATF_T1	0	0	0	0	0	0	1.02	0.99	0	0	0	0	0	0
4/17/2024 21:47	64801	MONE_T2	1	1	0	1.1	1.2	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:47	64802	MONE_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
4/17/2024 21:47	45702	LIND_T2	1	1	0	1	1.3	0.3	-0.62	-0.61	0	0	0	0	0	0
4/17/2024 21:48	51402	LYKE_T1	0	0	0	0	0	0	-1.49	-1.5	1	1	0	600	600	0
4/17/2024 21:48	26703	HEML_T1	0	0	0	0	0	0	-0.96	-0.95	1	1	0	600	600	0
4/17/2024 21:49	67201	TEHI_T1	66	67	1	0.43	0.47	0.04	-0.14	-0.14	0	0	0	0	0	0
4/17/2024 21:49	45602	WOOL_T1	3	3	0	0.8	1.33	0.53	0.35	0.34	0	0	0	0	0	0
4/17/2024 21:49	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 21:49	66703	STRA_T1	2	5	3	0.1	0.26	0.16	-0.47	-0.41	0	0	0	0	0	0
4/17/2024 21:49	63401	HONY_T1	2	0	-2	0.5	0	-0.5	0.56	0.45	0	0	0	0	0	0
4/17/2024 21:49	45702	LIND_T2	1	1	0	1	1.3	0.3	-0.62	-0.61	0	0	0	0	0	0
4/17/2024 21:49	46203	DANV_T2	188	0	-188	0.83	0	-0.83	-1.19	0.05	0	0	0	0	0	0
4/17/2024 21:49	63404	HONY_T1	139	157	18	0.36	0.42	0.06	0	0	0	0	0	0	0	0
4/17/2024 21:50	61101	BERK_T5	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/17/2024 21:50	61102	BERK_T5	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/17/2024 21:50	61103	BERK_T5	6	19	13	0.1	0.1	0	-0.01	-0.01	0	0	0	0	0	0
4/17/2024 21:51	51102	CARL_T1	90	88	-2	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
4/17/2024 21:51	45402	WBLO_T2	1	2	1	1.1	0.7	-0.4	-0.96	-0.96	0	0	0	0	0	0
4/17/2024 21:51	46203	DANV_T2	188	0	-188	0.83	0	-0.83	-1.19	0.05	0	0	0	0	0	0
4/17/2024 21:51	59003	MIFF_T1	1	1	0	0.2	0.3	0.1	0.63	0.56	0	0	0	0	0	0
4/17/2024 21:51	59002	MIFF_T1	1	5	4	0.1	0.22	0.12	0	0	0	0	0	0	0	0
4/17/2024 21:51	46506	LOHA_T1	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
4/17/2024 21:51	58302	NOTT_T1	0	0	0	0	0	0	-0.49	-0.34	1	1	0	1200	1200	0
4/17/2024 21:51	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 21:51	51104	CARL_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/17/2024 21:51	51107	CARL_T1	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
4/17/2024 21:51	46504	LOHA_T1	2	35	33	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
4/17/2024 21:53	51204	MTON_T2	0	0	0	0	0	0	0.17	-0.52	0	0	0	0	0	0
4/17/2024 21:56	56501	ROCK_T2	2	2	0	0.5	0.8	0.3	-0.01	-0.01	0	0	0	0	0	0
4/17/2024 21:56	59101	WALK_T2	0	0	0	0	0	0	1.05	0.85	0	0	0	0	0	0
4/17/2024 21:56	55105	WERT_T1	0	3	3	0	0.1	0.1	0	0	1	1	0	900	900	0
4/17/2024 21:56	59003	MIFF_T1	1	1	0	0.2	0.3	0.1	0.56	0.34	0	0	0	0	0	0
4/17/2024 21:56	59002	MIFF_T1	1	5	4	0.1	0.22	0.12	0	0	0	0	0	0	0	0
4/17/2024 22:08	11201	ELHE_T2	0	0	0	0	0	0	-0.11	-0.1	2	2	0	2400	2400	0
4/17/2024 22:11	53903	HALI_T2	16	2	-14	0.34	1.1	0.76	-0.23	-0.24	0	0	0	0	0	0
4/17/2024 22:11	53901	HALI_T2	1	1	0	1.2	0.6	-0.6	0	0	0	0	0	0	0	0
4/17/2024 22:11	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	-0.98	-1	0	0	0	0	0	0
4/17/2024 22:14	53901	HALI_T2	1	1	0	1.2	0.6	-0.6	0	0	0	0	0	0	0	0
4/17/2024 22:14	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
4/17/2024 22:14	53903	HALI_T2	16	2	-14	0.34	1.1	0.76	-0.45	-0.47	0	0	0	0	0	0
4/17/2024 22:14	56501	ROCK_T2	2	0	-2	0.8	0	-0.8	-0.01	-0.01	0	0	0	0	0	0
4/17/2024 22:14	56802	BENV_T2	206	150	-56	0.33	0.24	-0.09	-0.87	-0.91	0	0	0	0	0	0
4/17/2024 22:15	56501	ROCK_T2	0	2	2	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
4/17/2024 22:15	56802	BENV_T2	107	146	39	0.18	0.25	0.07	-0.87	-0.91	0	0	0	0	0	0
4/17/2024 22:15	53902	HALI_T2	1	1	0	5.2	5.8	0.6	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/17/2024 22:15	53901	HALI_T2	1	1	0	0.2	0.8	0.6	-0.46	-0.46	0	0	0	0	0	0
4/17/2024 22:15	53903	HALI_T2	2	2	0	1	1.25	0.25	-0.23	-0.24	0	0	0	0	0	0
4/17/2024 22:18	15203	SFAR_T2	85	264	179	0.12	0.17	0.05	-1.64	-1.65	0	0	0	0	0	0
4/17/2024 22:23	47101	MARL_T1	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
4/17/2024 22:35	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 23:20	47001	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2024 23:23	47001	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 1:19	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 7:41	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 7:47	64904	MILL_T1	0	0	0	0	0	0	0.39	0.32	0	0	0	0	0	0
4/18/2024 7:56	53501	EVIL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/18/2024 7:56	53502	EVIL_T2	0	0	0	0	0	0	0.5	0.55	1	1	0	600	600	0
4/18/2024 8:13	63804	HEMP_T1	1	1	0	6.9	5.6	-1.3	0	0	0	0	0	0	0	0
4/18/2024 8:13	63803	HEMP_T1	0	0	0	0	0	0	0.46	0.02	0	0	0	0	0	0
4/18/2024 8:14	63602	LETO_T1	0	0	0	0	0	0	-0.47	-0.38	0	0	0	0	0	0
4/18/2024 8:20	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/18/2024 8:22	67805	WLAN_T1	0	0	0	0	0	0	-1.13	-1.09	0	0	0	0	0	0
4/18/2024 8:24	67804	WLAN_T1	0	0	0	0	0	0	-1.17	-1.17	0	0	0	0	0	0
4/18/2024 8:25	67804	WLAN_T1	0	0	0	0	0	0	-1.17	-1.17	0	0	0	0	0	0
4/18/2024 8:29	46506	LOHA_T1	0	1	1	0	0.3	0.3	-0.46	-0.47	0	0	0	0	0	0
4/18/2024 8:29	46504	LOHA_T1	56	83	27	0.46	0.59	0.13	0	0	0	0	0	0	0	0
4/18/2024 8:39	56501	ROCK_T2	2	2	0	0.7	0.8	0.1	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 8:39	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 8:45	46803	HEPB_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/18/2024 8:45	46801	HEPB_T2	3	3	0	0.57	0.57	0	0.55	0.55	0	0	0	0	0	0
4/18/2024 8:47	46506	LOHA_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/18/2024 8:47	46502	LOHA_T1	0	0	0	0	0	0	-1.29	-1.4	1	1	0	1200	1200	0
4/18/2024 8:47	46504	LOHA_T1	78	82	4	0.57	0.49	-0.08	0	0	0	0	0	0	0	0
4/18/2024 8:48	53502	EVIL_T2	0	0	0	0	0	0	0.61	0.6	1	1	0	600	600	0
4/18/2024 8:48	53501	EVIL_T2	2	2	0	1.05	1.2	0.15	0	0	0	0	0	0	0	0
4/18/2024 8:49	57205	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 8:49	45702	LIND_T2	1	1	0	1.3	1.3	0	-0.44	-0.36	0	0	0	0	0	0
4/18/2024 8:49	57203	ROSS_T1	0	0	0	0	0	0	-0.43	-0.4	0	0	0	0	0	0
4/18/2024 8:50	43801	SWIL_T1	2	2	0	2.55	2.75	0.2	0	0	0	0	0	0	0	0
4/18/2024 8:50	43802	SWIL_T1	0	0	0	0	0	0	-0.22	-0.21	1	1	0	600	600	0
4/18/2024 8:52	57205	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 8:52	57203	ROSS_T1	0	0	0	0	0	0	-0.43	-0.4	0	0	0	0	0	0
4/18/2024 8:53	43801	SWIL_T1	2	2	0	2.55	2.75	0.2	0	0	0	0	0	0	0	0
4/18/2024 8:53	43802	SWIL_T1	0	0	0	0	0	0	-0.22	-0.21	1	1	0	600	600	0
4/18/2024 8:55	43802	SWIL_T1	0	0	0	0	0	0	-0.21	-0.2	1	1	0	600	600	0
4/18/2024 8:55	43801	SWIL_T1	2	2	0	2.55	2.75	0.2	0	0	0	0	0	0	0	0
4/18/2024 9:01	24902	WHHA_T1	30	63	33	0.58	0.52	-0.06	0	0	0	0	0	0	0	0
4/18/2024 9:02	45701	LIND_T2	0	0	0	0	0	0	-0.98	0.35	0	0	0	0	0	0
4/18/2024 9:02	45702	LIND_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
4/18/2024 9:03	57205	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 9:03	57203	ROSS_T1	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
4/18/2024 9:05	57203	ROSS_T1	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
4/18/2024 9:05	57205	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 9:08	48302	ORWI_T2	2	2	0	1.05	1.35	0.3	0.02	0.08	0	0	0	0	0	0
4/18/2024 9:12	63803	HEMP_T1	1	1	0	0.1	0.2	0.1	-0.02	-0.05	0	0	0	0	0	0
4/18/2024 9:12	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
4/18/2024 9:15	63803	HEMP_T1	0	1	1	0	0.2	0.2	-0.02	-0.05	0	0	0	0	0	0
4/18/2024 9:15	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
4/18/2024 9:16	61801	EELI_T2	0	0	0	0	0	0	-0.94	-0.94	1	1	0	600	600	0
4/18/2024 9:19	57201	ROSS_T1	0	0	0	0	0	0	-0.65	-0.69	0	0	0	0	0	0
4/18/2024 9:19	57205	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/18/2024 9:22	57203	ROSS_T1	0	0	0	0	0	0	-0.42	-0.38	0	0	0	0	0	0
4/18/2024 9:22	57205	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/18/2024 9:24	54603	SUMM_T2	0	0	0	0	0	0	-0.05	-0.08	1	1	0	900	900	0
4/18/2024 9:24	54601	SUMM_T2	6	12	6	0.62	0.47	-0.15	0	0	0	0	0	0	0	0
4/18/2024 9:29	11801	FRAN_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
4/18/2024 9:30	12006	HATF_T1	0	0	0	0	0	0	0.35	0.27	1	1	0	1200	1200	0
4/18/2024 9:31	45702	LIND_T2	1	1	0	0.9	1	0.1	-0.37	-0.37	0	0	0	0	0	0
4/18/2024 9:34	41902	REED_T1	0	0	0	0	0	0	1.02	1.01	0	0	0	0	0	0
4/18/2024 9:41	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
4/18/2024 9:41	63803	HEMP_T1	1	0	-1	0.2	0	-0.2	-0.05	-0.03	0	0	0	0	0	0
4/18/2024 9:45	45701	LIND_T2	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
4/18/2024 9:45	45702	LIND_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
4/18/2024 9:49	58402	MORO_T1	0	0	0	0	0	0	-0.2	-0.19	2	2	0	1500	1500	0
4/18/2024 9:57	14201	EALL_T1	0	0	0	0	0	0	0.52	0.59	0	0	0	0	0	0
4/18/2024 9:59	46801	HEPB_T2	2	2	0	0.7	0.65	-0.05	0.58	0.58	0	0	0	0	0	0
4/18/2024 10:00	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.19	1.18	0	0	0	0	0	0
4/18/2024 10:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 10:00	25603	ARRO_T1	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
4/18/2024 10:00	50501	MECH_T1	4	4	0	0.18	0.3	0.12	0	0	0	0	0	0	0	0
4/18/2024 10:00	40505	CRES_T1	3	3	0	5.17	4.8	-0.37	0.43	0.42	0	0	0	0	0	0
4/18/2024 10:00	53901	HALI_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
4/18/2024 10:00	12803	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 10:00	53902	HALI_T2	1	1	0	5.6	6	0.4	0	0	0	0	0	0	0	0
4/18/2024 10:00	60701	BREC_T1	0	1	1	0	4.9	4.9	-0.23	0.16	1	1	0	600	600	0
4/18/2024 10:00	60501	NMAN_T2	3	3	0	5.27	5.17	-0.1	0	0	0	0	0	0	0	0
4/18/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.81	1	1	0	900	900	0
4/18/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
4/18/2024 10:00	67002	STHI_T2	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
4/18/2024 10:00	52006	LING_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/18/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.48	1	1	0	600	600	0
4/18/2024 10:00	52004	LING_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
4/18/2024 10:00	58003	WCAR_T1	1	0	-1	0.2	0	-0.2	0.05	0	1	1	0	600	600	0
4/18/2024 10:00	51004	NHAR_T1	7	11	4	1.21	1.11	-0.1	0	0	0	0	0	0	0	0
4/18/2024 10:00	63801	HEMP_T1	0	0	0	0	0	0	0.36	0.29	0	0	0	0	0	0
4/18/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.86	0.89	0	0	0	0	0	0
4/18/2024 10:00	10805	CHHI_T2	2	2	0	5.3	8.5	3.2	-0.81	-0.7	1	1	0	600	600	0
4/18/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	-0.14	-0.11	0	0	0	0	0	0
4/18/2024 10:00	65003	NEFF_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/18/2024 10:00	54601	SUMM_T2	10	13	3	0.49	0.62	0.13	-1.9	-1.89	2	2	0	2100	2100	0
4/18/2024 10:00	58102	NEKI_T1	1	1	0	1.4	1.7	0.3	-1.2	-1.19	1	1	0	1200	1200	0
4/18/2024 10:00	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/18/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	-0.46	-0.5	2	2	0	1200	1200	0
4/18/2024 10:00	62605	ENGL_T1	0	0	0	0	0	0	-0.85	-0.84	0	0	0	0	0	0
4/18/2024 10:00	42002	MNVL_T2	1	1	0	3.9	4.2	0.3	0	0	0	0	0	0	0	0
4/18/2024 10:00	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 10:00	45602	WOOL_T1	3	3	0	0.77	0.57	-0.2	1.29	1.32	0	0	0	0	0	0
4/18/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
4/18/2024 10:00	50502	MECH_T1	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
4/18/2024 10:00	60101	COCA_T1	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
4/18/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
4/18/2024 10:00	53501	EVIL_T2	2	2	0	0.6	0.6	0	-1.1	-1.32	6	6	0	3600	3600	0
4/18/2024 10:00	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 10:00	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.5	-0.49	0	0	0	0	0	0
4/18/2024 10:00	67605	WARW_T1	35	36	1	0.54	0.56	0.02	0	0	0	0	0	0	0	0
4/18/2024 10:00	45502	DERR_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
4/18/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-0.82	-0.75	1	1	0	600	600	0
4/18/2024 10:00	51002	NHAR_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 10:00	42204	SHEN_T2	0	1	1	0	0	0	0.01	-0.02	1	1	0	1200	1200	0
4/18/2024 10:00	15103	UPHA_T2	0	0	0	0	0	0	0.34	0.37	0	0	0	0	0	0
4/18/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-0.93	-0.96	0	0	0	0	0	0
4/18/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.11	-0.05	0	0	0	0	0	0
4/18/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
4/18/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.45	-0.38	0	0	0	0	0	0
4/18/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	-0.22	-0.22	1	1	0	600	600	0
4/18/2024 10:00	56501	ROCK_T2	2	3	1	0.4	0.85	0.45	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.26	-0.28	1	1	0	600	600	0
4/18/2024 10:00	59201	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/18/2024 10:00	53903	HALI_T2	2	2	0	1.3	1.6	0.3	-0.22	-0.16	0	0	0	0	0	0
4/18/2024 10:00	11801	FRAN_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
4/18/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.19	-0.19	2	2	0	1500	1500	0
4/18/2024 10:00	50701	SMEC_T1	0	1	1	0	0	0	-0.82	-0.86	1	1	0	900	900	0
4/18/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.05	-0.03	0	0	0	0	0	0
4/18/2024 10:00	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 10:00	48302	ORWI_T2	2	2	0	1.2	1.1	-0.1	0	0.01	0	0	0	0	0	0
4/18/2024 10:00	67703	WERN_T2	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
4/18/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	0.72	0.84	2	2	0	1800	1800	0
4/18/2024 10:00	50505	MECH_T1	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
4/18/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
4/18/2024 10:00	12807	MICK_T1	1	1	0	0.2	0.2	0	0.18	0.19	0	0	0	0	0	0
4/18/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
4/18/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-0.71	-0.59	1	1	0	1200	1200	0
4/18/2024 10:00	42001	MNVL_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
4/18/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.32	0.34	1	1	0	600	600	0
4/18/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.51	-0.48	0	0	0	0	0	0
4/18/2024 10:00	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.29	-0.24	1	1	0	600	600	0
4/18/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	1.08	1.23	0	0	0	0	0	0
4/18/2024 10:00	10602	BLGL_T2	1	2	1	9.3	9.6	0.3	1.67	1.65	0	0	0	0	0	0
4/18/2024 10:00	16102	BING_T2	0	0	0	0	0	0	-0.06	-0.03	0	0	0	0	0	0
4/18/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
4/18/2024 10:00	63804	HEMP_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	-1.42	-1.27	3	3	0	1800	1800	0
4/18/2024 10:06	59101	WALK_T2	0	0	0	0	0	0	2.3	2.25	0	0	0	0	0	0
4/18/2024 10:06	57104	SPHI_T2	1	0	-1	1	0	-1	-1.19	-1.18	1	1	0	900	900	0
4/18/2024 10:06	64904	MILL_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
4/18/2024 10:06	57106	SPHI_T2	2	2	0	1.4	1.55	0.15	0	0	0	0	0	0	0	0
4/18/2024 10:06	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 10:06	57101	SPHI_T2	6	6	0	0.8	1	0.2	0	0	0	0	0	0	0	0
4/18/2024 10:06	14603	SWHI_T1	0	0	0	0	0	0	-1.05	-1.11	1	1	0	600	600	0
4/18/2024 10:07	44505	HAMI_T2	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
4/18/2024 10:07	44502	HAMI_T2	1	1	0	3	2.8	-0.2	0	0	0	0	0	0	0	0
4/18/2024 10:07	63306	GREE_T1	0	0	0	0	0	0	-1.19	-1.18	0	0	0	0	0	0
4/18/2024 10:07	45702	LIND_T2	1	1	0	0.9	1	0.1	-0.35	-0.38	0	0	0	0	0	0
4/18/2024 10:07	67402	WAKE_T2	0	0	0	0	0	0	0.32	0.34	1	1	0	600	600	0
4/18/2024 10:07	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.17	-0.16	0	0	0	0	0	0
4/18/2024 10:07	44201	POIN_T1	0	0	0	0	0	0	-1.46	-1.02	2	2	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/18/2024 10:07	59101	WALK_T2	0	0	0	0	0	0	2.3	2.25	0	0	0	0	0	0
4/18/2024 10:07	52001	LING_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
4/18/2024 10:07	10504	CRAC_T1	0	0	0	0	0	0	1.3	1.08	0	0	0	0	0	0
4/18/2024 10:08	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 10:08	65702	RVIL_T2	0	0	0	0	0	0	-1.06	-1.05	1	1	0	600	600	0
4/18/2024 10:08	47401	PENS_T1	0	0	0	0	0	0	0.84	0.84	0	0	0	0	0	0
4/18/2024 10:08	47403	PENS_T1	1	1	0	1.9	2.1	0.2	0	0	0	0	0	0	0	0
4/18/2024 10:08	40502	CRES_T2	0	2	2	0	0.1	0.1	-0.01	0	0	0	0	0	0	0
4/18/2024 10:08	22405	MORG_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
4/18/2024 10:08	42902	MIDD_T2	2	3	1	0.85	0.4	-0.45	0	0	0	0	0	0	0	0
4/18/2024 10:08	64801	MONE_T2	1	1	0	0.6	0.8	0.2	0.22	0.22	0	0	0	0	0	0
4/18/2024 10:08	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 10:08	12505	MITR_T2	0	0	0	0	0	0	1.65	1.79	0	0	0	0	0	0
4/18/2024 10:08	12604	MACA_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
4/18/2024 10:08	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/18/2024 10:08	24105	EHAZ_T1	4	4	0	6.63	6.33	-0.3	-0.73	-0.78	1	1	0	1200	1200	0
4/18/2024 10:08	54001	SDLE_T1	8	9	1	0.56	0.6	0.04	0	0	1	1	0	600	600	0
4/18/2024 10:08	10801	CHHI_T1	0	0	0	0	0	0	-0.84	-0.89	1	1	0	900	900	0
4/18/2024 10:08	12502	MITR_T2	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
4/18/2024 10:08	42903	MIDD_T2	2	2	0	0.65	0.3	-0.35	0.15	0.52	1	1	0	1200	1200	0
4/18/2024 10:09	22102	EDEL_T1	0	0	0	0	0	0	-0.61	-0.8	1	1	0	1200	1200	0
4/18/2024 10:09	10801	CHHI_T1	0	0	0	0	0	0	-0.89	-0.8	1	1	0	900	900	0
4/18/2024 10:09	14603	SWHI_T1	0	0	0	0	0	0	-1.11	-1.06	1	1	0	600	600	0
4/18/2024 10:09	45602	WOOL_T1	3	3	0	0.77	0.57	-0.2	0.44	0.44	0	0	0	0	0	0
4/18/2024 10:10	10801	CHHI_T1	0	0	0	0	0	0	-0.89	-0.8	1	1	0	900	900	0
4/18/2024 10:12	54602	SUMM_T2	0	0	0	0	0	0	-2.51	-2.49	1	1	0	600	600	0
4/18/2024 10:12	54601	SUMM_T2	10	13	3	0.49	0.62	0.13	0	0	0	0	0	0	0	0
4/18/2024 10:13	60904	DONG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 10:13	60903	DONG_T2	0	0	0	0	0	0	0.52	0.47	1	1	0	600	600	0
4/18/2024 10:16	42903	MIDD_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/18/2024 10:16	45701	LIND_T2	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
4/18/2024 10:16	45702	LIND_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
4/18/2024 10:16	42902	MIDD_T2	1	3	2	0.7	0.43	-0.27	-0.44	-0.47	1	1	0	600	600	0
4/18/2024 10:17	50201	HARR_T3	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/18/2024 10:17	50105	HARR_T3	6	6	0	5.62	6.15	0.53	0	0	0	0	0	0	0	0
4/18/2024 10:17	42902	MIDD_T2	1	3	2	0.7	0.43	-0.27	-0.44	-0.47	1	1	0	600	600	0
4/18/2024 10:17	42903	MIDD_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/18/2024 10:17	50103	HARR_T3	1	2	1	0.4	0.15	-0.25	-1.1	0.2	1	0	-1	1200	0	-1200
4/18/2024 10:18	60501	NMAN_T2	3	3	0	5.17	4.63	-0.54	0	0	0	0	0	0	0	0
4/18/2024 10:18	60502	NMAN_T2	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
4/18/2024 10:19	45702	LIND_T2	1	1	0	1	0.8	-0.2	-0.38	-0.47	0	0	0	0	0	0
4/18/2024 10:20	23001	SAJO_T1	0	0	0	0	0	0	-0.92	-0.92	0	0	0	0	0	0
4/18/2024 10:22	29402	BELT_T1	1	1	0	7	7.3	0.3	0	0	0	0	0	0	0	0
4/18/2024 10:22	12102	SALL_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/18/2024 10:23	62104	ELAN_T1	0	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0
4/18/2024 10:23	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 10:23	62102	ELAN_T1	0	0	0	0	0	0	-0.76	-0.66	0	0	0	0	0	0
4/18/2024 10:25	61702	ELIZ_T2	0	2	2	0	0.2	0.2	-2.87	-2.89	2	2	0	1500	1500	0
4/18/2024 10:25	62601	ENGL_T1	0	0	0	0	0	0	-0.22	-0.17	0	0	0	0	0	0
4/18/2024 10:26	53902	HALI_T2	1	1	0	5.6	6	0.4	-0.28	-0.29	0	0	0	0	0	0
4/18/2024 10:26	53903	HALI_T2	2	2	0	1.2	1.6	0.4	0	0	0	0	0	0	0	0
4/18/2024 10:26	53901	HALI_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
4/18/2024 10:28	53902	HALI_T2	1	1	0	5.6	6	0.4	0	0	0	0	0	0	0	0
4/18/2024 10:28	12006	HATF_T1	0	0	0	0	0	0	0.5	0.72	1	1	0	1200	1200	0
4/18/2024 10:28	53901	HALI_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
4/18/2024 10:28	53903	HALI_T2	2	2	0	1.2	1.6	0.4	-0.15	-0.19	0	0	0	0	0	0
4/18/2024 10:29	53901	HALI_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
4/18/2024 10:29	53903	HALI_T2	2	2	0	1.2	1.6	0.4	-0.31	-0.37	0	0	0	0	0	0
4/18/2024 10:29	53902	HALI_T2	1	1	0	5.6	6	0.4	0	0	0	0	0	0	0	0
4/18/2024 10:31	64702	LITI_T2	0	0	0	0	0	0	-0.68	-0.61	0	0	0	0	0	0
4/18/2024 10:32	64702	LITI_T2	0	0	0	0	0	0	-1.36	-1.22	0	0	0	0	0	0
4/18/2024 10:32	42903	MIDD_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/18/2024 10:32	42902	MIDD_T2	3	2	-1	0.4	0.6	0.2	-0.47	-0.42	1	1	0	600	600	0
4/18/2024 10:34	24902	WHHA_T1	91	98	7	0.89	0.56	-0.33	0	0	0	0	0	0	0	0
4/18/2024 10:34	51204	MTON_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	600	600	0
4/18/2024 10:35	56504	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/18/2024 10:35	51204	MTON_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	600	600	0
4/18/2024 10:35	56501	ROCK_T2	2	3	1	0.85	0.63	-0.22	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 10:36	58402	MORO_T1	0	0	0	0	0	0	-0.16	-0.13	2	2	0	1500	1500	0
4/18/2024 10:37	65901	SAKR_T2	1	1	0	9	9.3	0.3	-1.31	-1.3	1	1	0	900	900	0
4/18/2024 10:37	66503	SMAN_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
4/18/2024 10:41	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.38	0	0	0	0	0	0
4/18/2024 10:43	45802	HEGI_T2	1	12	11	0.8	0.1	-0.7	1.34	1.14	0	0	0	0	0	0
4/18/2024 10:45	45802	HEGI_T2	11	13	2	0.32	0.18	-0.14	1.34	1.14	0	0	0	0	0	0
4/18/2024 10:47	55002	NEWP_T1	7	12	5	0.6	0.72	0.12	-0.46	-0.44	0	0	0	0	0	0
4/18/2024 10:48	55002	NEWP_T1	7	12	5	0.6	0.72	0.12	-0.23	-0.22	0	0	0	0	0	0
4/18/2024 10:53	14802	TREI_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
4/18/2024 10:53	42201	SHEN_T2	0	0	0	0	0	0	-0.2	-0.19	1	1	0	600	600	0
4/18/2024 10:54	51102	CARL_T1	8	7	-1	0.23	0.23	0	0	0	0	0	0	0	0	0
4/18/2024 10:54	51108	CARL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/18/2024 10:54	51101	CARL_T1	0	0	0	0	0	0	-1.27	-1.24	1	1	0	600	600	0
4/18/2024 10:58	45501	DERR_T2	0	0	0	0	0	0	0.9	1.04	2	2	0	1800	1800	0
4/18/2024 10:58	45502	DERR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/18/2024 10:59	45702	LIND_T2	1	1	0	0.7	1.3	0.6	-0.5	-0.46	0	0	0	0	0	0
4/18/2024 11:03	57401	SPAN_T1	2	2	0	0.6	1	0.4	0	0	0	0	0	0	0	0
4/18/2024 11:03	57403	SPAN_T1	0	8	8	0	0.18	0.18	-0.06	-0.09	0	0	0	0	0	0
4/18/2024 11:05	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
4/18/2024 11:08	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 11:11	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 11:19	67002	STHI_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
4/18/2024 11:21	58401	MORO_T1	0	0	0	0	0	0	-1.13	-1.03	1	1	0	600	600	0
4/18/2024 11:21	58402	MORO_T1	0	0	0	0	0	0	-0.18	-0.17	2	2	0	1500	1500	0
4/18/2024 11:21	67702	WERN_T2	0	0	0	0	0	0	-0.12	-0.09	0	0	0	0	0	0
4/18/2024 11:21	42701	AUGU_T1	0	1	1	0	0.5	0.5	0	0	2	2	0	1800	1800	0
4/18/2024 11:22	67002	STHI_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
4/18/2024 11:22	42701	AUGU_T1	0	1	1	0	0.5	0.5	0	0	2	2	0	1800	1800	0
4/18/2024 11:23	58401	MORO_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	600	600	0
4/18/2024 11:23	67002	STHI_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
4/18/2024 11:25	29402	BELT_T1	1	1	0	7	7.7	0.7	0	0	0	0	0	0	0	0
4/18/2024 11:25	45901	AUBU_T1	0	0	0	0	0	0	1.63	1.58	0	0	0	0	0	0
4/18/2024 11:25	57002	WHHI_T2	0	0	0	0	0	0	-1.41	-1.39	1	1	0	1200	1200	0
4/18/2024 11:25	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/18/2024 11:27	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/18/2024 11:27	66703	STRA_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
4/18/2024 11:27	66701	STRA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 11:27	51603	DUKE_T1	2	2	0	0.2	0.75	0.55	-0.54	-0.58	0	0	0	0	0	0
4/18/2024 11:33	13103	NHAM_T2	0	0	0	0	0	0	-1.78	-1.73	1	1	0	600	600	0
4/18/2024 11:33	57205	ROSS_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/18/2024 11:33	56501	ROCK_T2	5	14	9	0.54	0.36	-0.18	-0.02	-0.02	0	0	0	0	0	0
4/18/2024 11:33	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 11:33	56504	ROCK_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/18/2024 11:33	57203	ROSS_T1	0	0	0	0	0	0	-0.27	-0.36	0	0	0	0	0	0
4/18/2024 11:34	56501	ROCK_T2	5	14	9	0.54	0.36	-0.18	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 11:34	56504	ROCK_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/18/2024 11:34	14501	SCHO_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
4/18/2024 11:34	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 11:34	58402	MORO_T1	0	0	0	0	0	0	-0.17	-0.26	2	2	0	1500	1500	0
4/18/2024 11:34	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 11:35	57205	ROSS_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/18/2024 11:35	57203	ROSS_T1	0	0	0	0	0	0	-0.27	-0.36	0	0	0	0	0	0
4/18/2024 11:35	24902	WHHA_T1	31	75	44	0.64	0.87	0.23	0	0	0	0	0	0	0	0
4/18/2024 11:36	56504	ROCK_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/18/2024 11:36	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 11:36	46801	HEPB_T2	2	2	0	0.5	0.6	0.1	0.64	0.61	0	0	0	0	0	0
4/18/2024 11:36	56501	ROCK_T2	5	14	9	0.54	0.36	-0.18	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 11:37	57205	ROSS_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/18/2024 11:37	59101	WALK_T2	0	0	0	0	0	0	2	2.06	0	0	0	0	0	0
4/18/2024 11:37	57203	ROSS_T1	0	0	0	0	0	0	-0.27	-0.36	0	0	0	0	0	0
4/18/2024 11:38	56504	ROCK_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/18/2024 11:38	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 11:38	56501	ROCK_T2	5	14	9	0.54	0.36	-0.18	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 11:38	57103	SPHI_T2	0	0	0	0	0	0	-0.32	-0.31	1	1	0	600	600	0
4/18/2024 11:38	57101	SPHI_T2	6	6	0	0.68	0.7	0.02	0	0	0	0	0	0	0	0
4/18/2024 11:38	57104	SPHI_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
4/18/2024 11:38	57106	SPHI_T2	2	3	1	1.75	1.23	-0.52	0	0	0	0	0	0	0	0
4/18/2024 11:39	56504	ROCK_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/18/2024 11:39	56501	ROCK_T2	5	14	9	0.54	0.36	-0.18	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 11:39	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 11:40	59101	WALK_T2	0	0	0	0	0	0	2.06	2.06	0	0	0	0	0	0
4/18/2024 11:46	42903	MIDD_T2	2	2	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/18/2024 11:46	42902	MIDD_T2	3	4	1	0.77	0.45	-0.32	-0.35	-0.29	1	1	0	600	600	0
4/18/2024 11:48	51003	NHAR_T1	4	0	-4	0.1	0	-0.1	-2.65	-2.52	1	1	0	1200	1200	0
4/18/2024 11:48	51004	NHAR_T1	12	13	1	0.88	1.12	0.24	0	0	0	0	0	0	0	0
4/18/2024 11:48	51002	NHAR_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
4/18/2024 11:50	66502	SMAN_T2	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
4/18/2024 11:50	40602	PIGR_T1	1	1	0	0.4	0.3	-0.1	-0.14	-0.23	0	0	0	0	0	0
4/18/2024 11:51	40602	PIGR_T1	1	1	0	0.4	0.3	-0.1	-0.07	-0.11	0	0	0	0	0	0
4/18/2024 11:51	42903	MIDD_T2	2	2	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/18/2024 11:51	42902	MIDD_T2	3	4	1	0.77	0.45	-0.32	-0.35	-0.29	1	1	0	600	600	0
4/18/2024 11:53	66502	SMAN_T2	0	0	0	0	0	0	0.2	0.24	0	0	0	0	0	0
4/18/2024 11:53	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
4/18/2024 11:54	51301	WIND_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 11:54	29402	BELT_T1	1	1	0	7.7	7.4	-0.3	0	0	0	0	0	0	0	0
4/18/2024 11:54	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/18/2024 11:54	51303	WIND_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/18/2024 11:54	51305	WIND_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/18/2024 11:55	44301	BEAV_T2	0	0	0	0	0	0	0.35	-0.27	2	2	0	1500	1500	0
4/18/2024 11:56	44301	BEAV_T2	0	0	0	0	0	0	0.35	-0.27	2	2	0	1500	1500	0
4/18/2024 11:57	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/18/2024 11:57	54503	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 11:57	54501	ENOL_T2	2	3	1	0.15	0.17	0.02	-0.56	-0.58	1	1	0	600	600	0
4/18/2024 11:57	54504	ENOL_T2	0	1	1	0	0.1	0.1	-0.34	-0.32	0	0	0	0	0	0
4/18/2024 11:57	54505	ENOL_T2	1	3	2	0.7	0.63	-0.07	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/18/2024 12:01	65303	NBRI_T2	0	0	0	0	0	0	0.01	0.05	0	0	0	0	0	0
4/18/2024 12:06	42802	SELI_T1	0	0	0	0	0	0	-0.8	-0.79	1	1	0	900	900	0
4/18/2024 12:07	13303	ORVI_T1	0	0	0	0	0	0	1.11	1.16	0	0	0	0	0	0
4/18/2024 12:08	51301	WIND_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 12:08	51305	WIND_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/18/2024 12:08	51303	WIND_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/18/2024 12:09	49804	UNIV_T1	1	1	0	0.4	0.3	-0.1	0.99	1.25	0	0	0	0	0	0
4/18/2024 12:10	60801	BUCK_T1	0	0	0	0	0	0	-0.82	-0.86	1	1	0	600	600	0
4/18/2024 12:11	60801	BUCK_T1	0	0	0	0	0	0	-0.82	-0.86	1	1	0	600	600	0
4/18/2024 12:12	46203	DANV_T2	1	2	1	0.1	0.1	0	0.2	0.16	0	0	0	0	0	0
4/18/2024 12:17	60801	BUCK_T1	0	0	0	0	0	0	-0.82	-0.86	1	1	0	600	600	0
4/18/2024 12:18	57203	ROSS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/18/2024 12:18	57205	ROSS_T1	1	1	0	1.4	0.5	-0.9	0.16	0.18	0	0	0	0	0	0
4/18/2024 12:25	40802	EXCH_T2	0	0	0	0	0	0	-0.1	0.03	0	0	0	0	0	0
4/18/2024 12:27	40802	EXCH_T2	0	0	0	0	0	0	-0.1	0.03	0	0	0	0	0	0
4/18/2024 12:27	45901	AUBU_T1	0	0	0	0	0	0	1.7	1.77	0	0	0	0	0	0
4/18/2024 12:28	40802	EXCH_T2	0	0	0	0	0	0	-0.1	0.03	0	0	0	0	0	0
4/18/2024 12:29	61506	EPET_T2	0	0	0	0	0	0	-0.92	-0.93	1	1	0	900	900	0
4/18/2024 12:30	59003	MIFF_T1	1	0	-1	0.1	0	-0.1	-0.23	-0.49	0	0	0	0	0	0
4/18/2024 12:30	65502	MOJO_T2	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
4/18/2024 12:31	14801	TREI_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
4/18/2024 12:34	65503	MOJO_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
4/18/2024 12:35	64101	REFR_T1	0	0	0	0	0	0	-0.92	-0.83	0	0	0	0	0	0
4/18/2024 12:36	59202	THOM_T1	12	0	-12	0.12	0	-0.12	0	0	0	0	0	0	0	0
4/18/2024 12:37	43802	SWIL_T1	0	0	0	0	0	0	-0.2	-0.2	1	1	0	600	600	0
4/18/2024 12:37	60802	BUCK_T2	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
4/18/2024 12:37	43801	SWIL_T1	2	2	0	2.75	2.6	-0.15	0	0	0	0	0	0	0	0
4/18/2024 12:37	64101	REFR_T1	0	0	0	0	0	0	-0.92	-0.83	0	0	0	0	0	0
4/18/2024 12:40	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 12:40	61102	BERK_T5	0	0	0	0	0	0	1.01	0.98	2	2	0	600	600	0
4/18/2024 12:42	61102	BERK_T5	0	0	0	0	0	0	0.5	0.49	1	1	0	300	300	0
4/18/2024 12:42	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 12:43	60902	DONG_T2	0	0	0	0	0	0	0.61	0.58	0	0	0	0	0	0
4/18/2024 12:43	60901	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 12:44	46801	HEPB_T2	2	2	0	0.7	0.65	-0.05	0.65	0.62	0	0	0	0	0	0
4/18/2024 12:45	47103	MARL_T2	0	0	0	0	0	0	-1.07	-1.25	0	0	0	0	0	0
4/18/2024 12:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 12:45	47102	MARL_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/18/2024 12:48	54203	PENN_T1	18	18	0	0.48	0.58	0.1	0.07	0.06	0	0	0	0	0	0
4/18/2024 12:48	54201	PENN_T1	8	6	-2	0.21	0.25	0.04	0	0	0	0	0	0	0	0
4/18/2024 12:52	67002	STHI_T2	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
4/18/2024 12:53	67002	STHI_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
4/18/2024 12:53	67603	WARW_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
4/18/2024 12:53	67605	WARW_T1	34	33	-1	0.56	0.62	0.06	0	0	0	0	0	0	0	0
4/18/2024 12:54	67605	WARW_T1	34	33	-1	0.56	0.62	0.06	-1.22	-1.23	0	0	0	0	0	0
4/18/2024 12:54	67002	STHI_T2	0	0	0	0	0	0	1.69	1.66	0	0	0	0	0	0
4/18/2024 12:55	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 12:59	50103	HARR_T3	0	0	0	0	0	0	-2.02	-1.7	2	2	0	2400	2400	0
4/18/2024 12:59	50202	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 12:59	50201	HARR_T3	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/18/2024 12:59	50106	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 12:59	50105	HARR_T3	6	6	0	6.28	6.2	-0.08	0	0	0	0	0	0	0	0
4/18/2024 13:00	50202	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 13:00	50201	HARR_T3	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/18/2024 13:00	50103	HARR_T3	0	0	0	0	0	0	-1.01	-0.85	1	1	0	1200	1200	0
4/18/2024 13:00	50105	HARR_T3	6	6	0	6.25	6.25	0	0	0	0	0	0	0	0	0
4/18/2024 13:01	50105	HARR_T3	6	6	0	6.25	6.25	0	0	0	0	0	0	0	0	0
4/18/2024 13:01	50201	HARR_T3	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/18/2024 13:01	50103	HARR_T3	0	0	0	0	0	0	-1.01	-0.85	1	1	0	1200	1200	0
4/18/2024 13:01	50202	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 13:06	56501	ROCK_T2	2	2	0	0.8	0.9	0.1	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 13:06	54202	PENN_T2	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
4/18/2024 13:07	54206	PENN_T2	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
4/18/2024 13:08	56501	ROCK_T2	2	2	0	0.8	0.9	0.1	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 13:12	13103	NHAM_T2	0	0	0	0	0	0	-1.74	-1.77	1	1	0	600	600	0
4/18/2024 13:13	56501	ROCK_T2	2	2	0	0.8	0.9	0.1	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 13:17	51002	NHAR_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/18/2024 13:17	51004	NHAR_T1	13	13	0	0.98	1.3	0.32	-0.42	-0.39	0	0	0	0	0	0
4/18/2024 13:20	12102	SALL_T2	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
4/18/2024 13:22	12102	SALL_T2	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
4/18/2024 13:31	59302	MCAL_T1	0	0	0	0	0	0	0.1	-0.04	1	1	0	600	600	0
4/18/2024 13:31	59301	MCAL_T1	2	5	3	0.2	0.28	0.08	0	0	0	0	0	0	0	0
4/18/2024 13:36	42802	SELI_T1	0	0	0	0	0	0	-0.78	-0.79	1	1	0	900	900	0
4/18/2024 13:39	60605	NCIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 13:48	56501	ROCK_T2	3	3	0	0.6	0.87	0.27	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 13:50	43105	SMIL_T2	3	7	4	0.17	0.24	0.07	0	0	0	0	0	0	0	0
4/18/2024 13:50	43108	SMIL_T2	0	0	0	0	0	0	0.51	0.27	0	0	0	0	0	0
4/18/2024 13:50	43103	SMIL_T2	20	22	2	0.83	0.95	0.12	0	0	0	0	0	0	0	0
4/18/2024 13:50	43102	SMIL_T2	6	8	2	0.62	0.66	0.04	0	0	0	0	0	0	0	0
4/18/2024 13:52	46301	ROHR_T1	287	314	27	0.5	0.64	0.14	0.44	0.41	0	0	0	0	0	0
4/18/2024 13:52	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.79	1	1	0	900	900	0
4/18/2024 13:52	46302	ROHR_T1	159	181	22	0.37	0.4	0.03	0	0	0	0	0	0	0	0
4/18/2024 13:53	64904	MILL_T1	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
4/18/2024 13:54	67702	WERN_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
4/18/2024 13:54	43304	WATS_T2	0	0	0	0	0	0	-0.41	-0.48	0	0	0	0	0	0
4/18/2024 13:55	45902	AUBU_T1	0	0	0	0	0	0	-0.83	-0.86	1	1	0	600	600	0
4/18/2024 13:56	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.73	1	1	0	900	900	0
4/18/2024 13:56	45902	AUBU_T1	0	0	0	0	0	0	-0.83	-0.86	1	1	0	600	600	0
4/18/2024 13:57	63402	HONY_T2	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
4/18/2024 13:57	63403	HONY_T2	0	0	0	0	0	0	-0.18	-0.17	1	1	0	600	600	0
4/18/2024 14:00	64802	MONE_T2	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
4/18/2024 14:00	64801	MONE_T2	1	2	1	1.1	0.85	-0.25	0.21	0.22	0	0	0	0	0	0
4/18/2024 14:02	64802	MONE_T2	1	3	2	0.1	0.37	0.27	0.09	0.1	0	0	0	0	0	0
4/18/2024 14:02	64801	MONE_T2	1	2	1	1.1	0.85	-0.25	0	0	0	0	0	0	0	0
4/18/2024 14:02	59301	MCAL_T1	5	4	-1	0.26	0.48	0.22	-1.46	-1.49	1	1	0	600	600	0
4/18/2024 14:04	59301	MCAL_T1	5	4	-1	0.26	0.48	0.22	-1.46	-1.49	1	1	0	600	600	0
4/18/2024 14:04	65503	MOJO_T2	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
4/18/2024 14:06	14403	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 14:06	14404	SSLA_T1	1	1	0	5.6	5.6	0	-0.05	-0.03	0	0	0	0	0	0
4/18/2024 14:07	58002	WCAR_T2	44	17	-27	0.26	0.26	0	0	0	0	0	0	0	0	0
4/18/2024 14:07	58006	WCAR_T2	3	1	-2	0.27	0.1	-0.17	0.34	0.33	0	0	0	0	0	0
4/18/2024 14:07	67703	WERN_T2	0	0	0	0	0	0	0.63	0.65	0	0	0	0	0	0
4/18/2024 14:08	51301	WIND_T1	0	3	3	0	0.17	0.17	-0.33	-0.36	0	0	0	0	0	0
4/18/2024 14:08	51305	WIND_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/18/2024 14:08	51303	WIND_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 14:09	61103	BERK_T5	0	2	2	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 14:09	61102	BERK_T5	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 14:10	61103	BERK_T5	0	2	2	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 14:10	61102	BERK_T5	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 14:12	61103	BERK_T5	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 14:12	67604	WARW_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
4/18/2024 14:12	67605	WARW_T1	41	53	12	0.7	0.69	-0.01	-1.19	-1.17	0	0	0	0	0	0
4/18/2024 14:12	67605	WARW_T1	41	53	12	0.7	0.69	-0.01	-1.19	-1.17	0	0	0	0	0	0
4/18/2024 14:12	67605	WARW_T1	41	53	12	0.7	0.69	-0.01	-1.19	-1.17	0	0	0	0	0	0
4/18/2024 14:12	67605	WARW_T1	41	53	12	0.7	0.69	-0.01	-1.19	-1.17	0	0	0	0	0	0
4/18/2024 14:12	61102	BERK_T5	0	2	2	0	0.2	0.2	0.39	0.45	1	1	0	300	300	0
4/18/2024 14:13	60101	COCA_T1	0	0	0	0	0	0	0.31	0.21	0	0	0	0	0	0
4/18/2024 14:14	53902	HALI_T2	1	7	6	5.9	1.36	-4.54	0	0	0	0	0	0	0	0
4/18/2024 14:14	53901	HALI_T2	1	5	4	1	0.58	-0.42	-1.09	-1.06	0	0	0	0	0	0
4/18/2024 14:14	53903	HALI_T2	2	19	17	1.5	0.66	-0.84	0	0	0	0	0	0	0	0
4/18/2024 14:14	25402	LAHA_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
4/18/2024 14:16	50506	MECH_T1	2	2	0	0.8	1.25	0.45	0	0	0	0	0	0	0	0
4/18/2024 14:16	50501	MECH_T1	4	4	0	0.85	0.78	-0.07	0.36	0.35	0	0	0	0	0	0
4/18/2024 14:16	50504	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 14:16	50503	MECH_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 14:16	53901	HALI_T2	2	7	5	0.65	0.57	-0.08	-1.09	-1.06	0	0	0	0	0	0
4/18/2024 14:16	55003	NEWP_T2	9	10	1	0.42	0.4	-0.02	-0.1	-0.11	0	0	0	0	0	0
4/18/2024 14:16	53903	HALI_T2	7	19	12	0.63	0.66	0.03	0	0	0	0	0	0	0	0
4/18/2024 14:16	50502	MECH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
4/18/2024 14:16	53902	HALI_T2	2	10	8	3.1	1.09	-2.01	0	0	0	0	0	0	0	0
4/18/2024 14:17	55002	NEWP_T1	10	13	3	1.2	1.24	0.04	-0.22	-0.21	0	0	0	0	0	0
4/18/2024 14:17	57304	MOAL_T2	9	46	37	0.23	0.26	0.03	0	0	0	0	0	0	0	0
4/18/2024 14:17	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 14:17	50503	MECH_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 14:17	58303	NOTT_T2	5	5	0	0.32	0.44	0.12	0.24	0.26	1	1	0	900	900	0
4/18/2024 14:17	57306	MOAL_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/18/2024 14:17	57303	MOAL_T2	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
4/18/2024 14:17	50504	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 14:17	57301	MOAL_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
4/18/2024 14:17	50501	MECH_T1	4	4	0	0.85	0.78	-0.07	0	0	0	0	0	0	0	0
4/18/2024 14:17	50502	MECH_T1	1	1	0	2.1	2.1	0	-0.01	-0.05	0	0	0	0	0	0
4/18/2024 14:17	67605	WARW_T1	47	55	8	0.77	0.65	-0.12	-1.19	-1.17	0	0	0	0	0	0
4/18/2024 14:17	50506	MECH_T1	2	2	0	0.8	1.25	0.45	0	0	0	0	0	0	0	0
4/18/2024 14:18	57403	SPAN_T1	76	82	6	0.19	0.25	0.06	-0.07	-0.08	0	0	0	0	0	0
4/18/2024 14:18	57401	SPAN_T1	2	4	2	0.75	0.8	0.05	0	0	0	0	0	0	0	0
4/18/2024 14:19	13301	ORVI_T1	0	0	0	0	0	0	-0.48	-0.52	1	1	0	600	600	0
4/18/2024 14:20	61102	BERK_T5	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/18/2024 14:20	61103	BERK_T5	1	2	1	0.1	0.1	0	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 14:20	13302	ORVI_T2	13	11	-2	0.2	0.25	0.05	1.21	1.17	0	0	0	0	0	0
4/18/2024 14:21	56501	ROCK_T2	3	7	4	0.87	0.47	-0.4	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 14:21	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 14:21	15103	UPHA_T2	1	0	-1	0.1	0	-0.1	0.29	0.31	0	0	0	0	0	0
4/18/2024 14:21	55002	NEWP_T1	10	13	3	1.2	1.24	0.04	-0.22	-0.21	0	0	0	0	0	0
4/18/2024 14:22	61102	BERK_T5	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/18/2024 14:22	61103	BERK_T5	1	2	1	0.1	0.1	0	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 14:22	55003	NEWP_T2	9	10	1	0.42	0.4	-0.02	-0.1	-0.11	0	0	0	0	0	0
4/18/2024 14:23	45902	AUBU_T1	0	0	0	0	0	0	-0.72	-0.71	1	1	0	600	600	0
4/18/2024 14:23	45602	WOOL_T1	6	3	-3	0.47	0.9	0.43	0	0	0	0	0	0	0	0
4/18/2024 14:23	45601	WOOL_T1	1	1	0	0.4	0.1	-0.3	-0.24	-0.26	1	1	0	1200	1200	0
4/18/2024 14:23	29402	BELT_T1	1	1	0	7.7	7.4	-0.3	0	0	0	0	0	0	0	0
4/18/2024 14:23	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/18/2024 14:24	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 14:24	56501	ROCK_T2	3	7	4	0.87	0.47	-0.4	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/18/2024 14:26	29402	BELT_T1	1	1	0	7.7	7.4	-0.3	0	0	0	0	0	0	0	0
4/18/2024 14:26	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
4/18/2024 14:27	51101	CARL_T1	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
4/18/2024 14:27	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 14:27	51108	CARL_T1	2	0	-2	0.1	0	-0.1	-0.08	-0.05	1	1	0	600	600	0
4/18/2024 14:27	51109	CARL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/18/2024 14:27	51102	CARL_T1	11	9	-2	0.45	0.52	0.07	0	0	0	0	0	0	0	0
4/18/2024 14:27	56501	ROCK_T2	3	7	4	0.87	0.47	-0.4	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 14:28	10805	CHHI_T2	1	1	0	8.7	8.3	-0.4	-0.61	-0.57	1	1	0	600	600	0
4/18/2024 14:29	61102	BERK_T5	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/18/2024 14:29	61103	BERK_T5	1	2	1	0.1	0.1	0	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 14:30	47001	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 14:32	67605	WARW_T1	50	57	7	0.62	0.65	0.03	-1.17	-1.18	0	0	0	0	0	0
4/18/2024 14:32	67603	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/18/2024 14:32	47001	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 14:35	41901	REED_T1	0	7	7	0	0.14	0.14	0	0	0	0	0	0	0	0
4/18/2024 14:35	58003	WCAR_T1	0	0	0	0	0	0	0.13	0.06	1	1	0	600	600	0
4/18/2024 14:35	41902	REED_T1	0	2	2	0	0.45	0.45	2.27	2.17	0	0	0	0	0	0
4/18/2024 14:36	57003	WHHI_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
4/18/2024 14:36	54602	SUMM_T2	10	12	2	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
4/18/2024 14:36	54601	SUMM_T2	13	13	0	0.82	0.92	0.1	-1.87	-1.84	2	2	0	2100	2100	0
4/18/2024 14:36	57002	WHHI_T2	0	1	1	0	0.1	0.1	-1.4	-1.36	1	1	0	1200	1200	0
4/18/2024 14:36	57004	WHHI_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
4/18/2024 14:36	57006	WHHI_T2	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
4/18/2024 14:37	67402	WAKE_T2	0	0	0	0	0	0	0.33	0.35	1	1	0	600	600	0
4/18/2024 14:39	57006	WHHI_T2	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
4/18/2024 14:39	51901	COPA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/18/2024 14:39	57001	WHHI_T2	0	0	0	0	0	0	0	0.01	1	1	0	900	900	0
4/18/2024 14:39	51906	COPA_T1	0	1	1	0	0.2	0.2	-0.03	-0.07	1	1	0	600	600	0
4/18/2024 14:39	54602	SUMM_T2	10	12	2	0.28	0.2	-0.08	-2.49	-2.48	1	1	0	600	600	0
4/18/2024 14:39	54601	SUMM_T2	13	13	0	0.82	0.92	0.1	0	0	0	0	0	0	0	0
4/18/2024 14:39	51904	COPA_T1	5	5	0	1.2	1.64	0.44	0	0	0	0	0	0	0	0
4/18/2024 14:39	51902	COPA_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/18/2024 14:39	57003	WHHI_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
4/18/2024 14:39	57002	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 14:40	54602	SUMM_T2	10	12	2	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
4/18/2024 14:40	57002	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 14:40	54601	SUMM_T2	13	13	0	0.82	0.92	0.1	-1.84	-1.83	2	2	0	2100	2100	0
4/18/2024 14:40	57003	WHHI_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
4/18/2024 14:40	57006	WHHI_T2	1	2	1	0.1	0.55	0.45	0.94	0.98	2	2	0	1200	1200	0
4/18/2024 14:41	67605	WARW_T1	50	57	7	0.62	0.65	0.03	-1.18	-1.15	0	0	0	0	0	0
4/18/2024 14:41	61102	BERK_T5	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/18/2024 14:41	61101	BERK_T5	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
4/18/2024 14:41	57002	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 14:41	57006	WHHI_T2	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
4/18/2024 14:41	57003	WHHI_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
4/18/2024 14:41	61103	BERK_T5	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/18/2024 14:41	57004	WHHI_T2	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
4/18/2024 14:41	67603	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/18/2024 14:43	61102	BERK_T5	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/18/2024 14:43	61101	BERK_T5	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
4/18/2024 14:43	42401	GIMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 14:43	61103	BERK_T5	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/18/2024 14:44	67605	WARW_T1	50	57	7	0.62	0.65	0.03	-1.18	-1.15	0	0	0	0	0	0
4/18/2024 14:44	17401	FOHI_T1	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
4/18/2024 14:44	67603	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/18/2024 14:45	53903	HALI_T2	9	18	9	0.64	0.68	0.04	0	0	0	0	0	0	0	0
4/18/2024 14:45	53901	HALI_T2	5	5	0	0.58	0.62	0.04	0	0	0	0	0	0	0	0
4/18/2024 14:45	53902	HALI_T2	9	5	-4	1.2	1.78	0.58	-0.28	-0.27	0	0	0	0	0	0
4/18/2024 14:46	53902	HALI_T2	9	5	-4	1.2	1.78	0.58	-0.28	-0.27	0	0	0	0	0	0
4/18/2024 14:46	53901	HALI_T2	5	5	0	0.58	0.62	0.04	0	0	0	0	0	0	0	0
4/18/2024 14:46	53903	HALI_T2	9	18	9	0.64	0.68	0.04	0	0	0	0	0	0	0	0
4/18/2024 14:48	57403	SPAN_T1	81	86	5	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
4/18/2024 14:48	47401	PENS_T1	2	8	6	0.35	0.78	0.43	3	3.8	0	0	0	0	0	0
4/18/2024 14:48	47403	PENS_T1	11	14	3	0.57	0.59	0.02	0	0	0	0	0	0	0	0
4/18/2024 14:48	41901	REED_T1	1	7	6	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/18/2024 14:48	47402	PENS_T1	1	7	6	1	0.69	-0.31	0	0	0	0	0	0	0	0
4/18/2024 14:48	41902	REED_T1	2	2	0	0.15	0.45	0.3	1.08	1.1	0	0	0	0	0	0
4/18/2024 14:48	57401	SPAN_T1	4	3	-1	0.8	0.83	0.03	-0.54	-0.39	1	1	0	600	600	0
4/18/2024 14:49	47403	PENS_T1	11	14	3	0.57	0.59	0.02	0	0	0	0	0	0	0	0
4/18/2024 14:49	47402	PENS_T1	1	7	6	1	0.69	-0.31	0	0	0	0	0	0	0	0
4/18/2024 14:49	47401	PENS_T1	2	8	6	0.35	0.78	0.43	1	1.27	0	0	0	0	0	0
4/18/2024 14:49	41901	REED_T1	1	7	6	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/18/2024 14:49	41902	REED_T1	2	2	0	0.15	0.45	0.3	1.08	1.1	0	0	0	0	0	0
4/18/2024 14:50	47401	PENS_T1	2	8	6	0.35	0.78	0.43	1	1.27	0	0	0	0	0	0
4/18/2024 14:50	47402	PENS_T1	1	7	6	1	0.69	-0.31	0	0	0	0	0	0	0	0
4/18/2024 14:50	47403	PENS_T1	11	14	3	0.57	0.59	0.02	0	0	0	0	0	0	0	0
4/18/2024 14:50	41901	REED_T1	1	7	6	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/18/2024 14:50	41902	REED_T1	2	2	0	0.15	0.45	0.3	1.08	1.1	0	0	0	0	0	0
4/18/2024 14:51	41901	REED_T1	1	7	6	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/18/2024 14:51	47401	PENS_T1	2	8	6	0.35	0.78	0.43	2	2.53	0	0	0	0	0	0
4/18/2024 14:51	41902	REED_T1	2	2	0	0.15	0.45	0.3	2.17	2.19	0	0	0	0	0	0
4/18/2024 14:51	47402	PENS_T1	1	7	6	1	0.69	-0.31	0	0	0	0	0	0	0	0
4/18/2024 14:51	47403	PENS_T1	11	14	3	0.57	0.59	0.02	0	0	0	0	0	0	0	0
4/18/2024 14:52	57403	SPAN_T1	81	86	5	0.25	0.24	-0.01	-0.08	-0.09	0	0	0	0	0	0
4/18/2024 14:52	57401	SPAN_T1	4	3	-1	0.8	0.83	0.03	-0.54	-0.39	1	1	0	600	600	0
4/18/2024 14:52	46002	BERW_T2	0	0	0	0	0	0	-0.71	-0.81	1	1	0	900	900	0
4/18/2024 14:53	64101	REFR_T1	0	1	1	0	0.1	0.1	-0.92	-0.87	0	0	0	0	0	0
4/18/2024 14:53	13704	SOHN_T2	0	1	1	0	0.1	0.1	-0.39	-0.41	0	0	0	0	0	0
4/18/2024 14:54	43102	SMIL_T2	9	10	1	0.6	0.76	0.16	0	0	0	0	0	0	0	0
4/18/2024 14:54	43101	SMIL_T2	0	4	4	0	0.9	0.9	-0.78	-0.77	0	0	0	0	0	0
4/18/2024 14:54	43103	SMIL_T2	22	23	1	0.96	1.17	0.21	0	0	0	0	0	0	0	0
4/18/2024 14:54	43104	SMIL_T2	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
4/18/2024 14:54	43105	SMIL_T2	12	15	3	0.22	0.34	0.12	0	0	0	0	0	0	0	0
4/18/2024 14:57	40701	FFLD_T1	68	75	7	0.45	0.6	0.15	0	0	0	0	0	0	0	0
4/18/2024 14:57	40703	FFLD_T1	4	4	0	0.5	0.7	0.2	0.38	0.38	0	0	0	0	0	0
4/18/2024 14:57	41801	GOCI_T2	147	334	187	0.26	0.66	0.4	0	0	0	0	0	0	0	0
4/18/2024 14:57	41802	GOCI_T2	0	16	16	0	0.23	0.23	0	0	0	0	0	0	0	0
4/18/2024 14:57	40702	FFLD_T1	33	133	100	0.18	0.42	0.24	0	0	0	0	0	0	0	0
4/18/2024 14:59	28604	BLYT_T2	0	0	0	0	0	0	-1.59	-1.62	0	0	0	0	0	0
4/18/2024 15:00	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
4/18/2024 15:01	54504	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/18/2024 15:01	54501	ENOL_T2	7	7	0	0.4	0.4	0	-0.59	-0.54	1	1	0	600	600	0
4/18/2024 15:01	54505	ENOL_T2	3	3	0	0.8	0.97	0.17	0	0	0	0	0	0	0	0
4/18/2024 15:01	54502	ENOL_T2	3	3	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/18/2024 15:02	67603	WARW_T1	1	4	3	0.5	0.73	0.23	0	0	0	0	0	0	0	0
4/18/2024 15:02	40701	FFLD_T1	69	74	5	0.55	0.63	0.08	0	0	0	0	0	0	0	0
4/18/2024 15:02	67605	WARW_T1	53	59	6	0.65	0.68	0.03	-1.15	-1.14	0	0	0	0	0	0
4/18/2024 15:02	42701	AUGU_T1	3	7	4	0.7	0.44	-0.26	0	0	2	2	0	1800	1800	0
4/18/2024 15:02	40703	FFLD_T1	4	4	0	0.68	0.73	0.05	0.38	0.38	0	0	0	0	0	0
4/18/2024 15:02	40702	FFLD_T1	123	129	6	0.34	0.45	0.11	0	0	0	0	0	0	0	0
4/18/2024 15:03	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
4/18/2024 15:06	43105	SMIL_T2	13	17	4	0.27	0.39	0.12	0	0	0	0	0	0	0	0
4/18/2024 15:06	43102	SMIL_T2	9	9	0	0.67	0.84	0.17	0	0	0	0	0	0	0	0
4/18/2024 15:06	67603	WARW_T1	1	4	3	0.5	0.73	0.23	0	0	0	0	0	0	0	0
4/18/2024 15:06	67605	WARW_T1	53	59	6	0.65	0.68	0.03	-1.15	-1.14	0	0	0	0	0	0
4/18/2024 15:06	43101	SMIL_T2	3	4	1	1	0.85	-0.15	0	0	0	0	0	0	0	0
4/18/2024 15:06	43104	SMIL_T2	2	3	1	0.2	0.2	0	-0.86	-0.89	1	1	0	300	300	0
4/18/2024 15:06	43103	SMIL_T2	22	23	1	1.03	1.17	0.14	0	0	0	0	0	0	0	0
4/18/2024 15:07	65604	QVIL_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
4/18/2024 15:07	43103	SMIL_T2	22	23	1	1.03	1.17	0.14	0	0	0	0	0	0	0	0
4/18/2024 15:07	43105	SMIL_T2	13	17	4	0.27	0.39	0.12	0	0	0	0	0	0	0	0
4/18/2024 15:07	43102	SMIL_T2	9	9	0	0.67	0.84	0.17	-0.85	-0.85	1	1	0	600	600	0
4/18/2024 15:07	43104	SMIL_T2	2	3	1	0.2	0.2	0	-0.86	-0.89	1	1	0	300	300	0
4/18/2024 15:07	43101	SMIL_T2	3	4	1	1	0.85	-0.15	0	0	0	0	0	0	0	0
4/18/2024 15:08	43101	SMIL_T2	3	4	1	1	0.85	-0.15	0	0	0	0	0	0	0	0
4/18/2024 15:08	43105	SMIL_T2	13	17	4	0.27	0.39	0.12	0	0	0	0	0	0	0	0
4/18/2024 15:08	43104	SMIL_T2	2	3	1	0.2	0.2	0	0	0	0	0	0	0	0	0
4/18/2024 15:08	43103	SMIL_T2	22	23	1	1.03	1.17	0.14	0	0	0	0	0	0	0	0
4/18/2024 15:08	43102	SMIL_T2	9	9	0	0.67	0.84	0.17	-0.85	-0.85	1	1	0	600	600	0
4/18/2024 15:10	41502	FAIR_T2	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
4/18/2024 15:11	41301	FISH_T1	2	2	0	1.75	2.35	0.6	-0.05	-0.04	0	0	0	0	0	0
4/18/2024 15:11	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.03	0	0	0	0	0	0
4/18/2024 15:12	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
4/18/2024 15:12	43102	SMIL_T2	9	9	0	0.67	0.84	0.17	0	0	0	0	0	0	0	0
4/18/2024 15:12	43105	SMIL_T2	13	17	4	0.27	0.39	0.12	0	0	0	0	0	0	0	0
4/18/2024 15:12	43104	SMIL_T2	2	3	1	0.2	0.2	0	-0.89	-0.9	1	1	0	300	300	0
4/18/2024 15:12	43103	SMIL_T2	22	23	1	1.03	1.17	0.14	0	0	0	0	0	0	0	0
4/18/2024 15:12	43101	SMIL_T2	3	4	1	1	0.85	-0.15	0	0	0	0	0	0	0	0
4/18/2024 15:13	11201	ELHE_T2	0	0	0	0	0	0	-0.3	-0.34	2	2	0	2400	2400	0
4/18/2024 15:13	67605	WARW_T1	53	59	6	0.65	0.68	0.03	0	0	0	0	0	0	0	0
4/18/2024 15:13	67603	WARW_T1	1	4	3	0.5	0.73	0.23	0.01	-0.03	0	0	0	0	0	0
4/18/2024 15:15	41301	FISH_T1	2	2	0	2.05	2.35	0.3	-0.05	-0.04	0	0	0	0	0	0
4/18/2024 15:15	67603	WARW_T1	4	1	-3	0.73	0.5	-0.23	0.01	-0.03	0	0	0	0	0	0
4/18/2024 15:15	67605	WARW_T1	59	44	-15	0.66	0.79	0.13	0	0	0	0	0	0	0	0
4/18/2024 15:15	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.03	0	0	0	0	0	0
4/18/2024 15:16	64202	KINZ_T1	3	3	0	1.1	0.97	-0.13	0	0	0	0	0	0	0	0
4/18/2024 15:16	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
4/18/2024 15:16	64201	KINZ_T1	1	0	-1	0.2	0	-0.2	-1.51	-1.24	8	8	0	4200	4200	0
4/18/2024 15:16	44301	BEAV_T2	0	0	0	0	0	0	0.68	0.75	1	1	0	600	600	0
4/18/2024 15:16	67605	WARW_T1	59	44	-15	0.66	0.79	0.13	-1.14	-1.14	0	0	0	0	0	0
4/18/2024 15:16	67603	WARW_T1	4	1	-3	0.73	0.5	-0.23	0	0	0	0	0	0	0	0
4/18/2024 15:17	46602	LACR_T1	1	1	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
4/18/2024 15:17	41301	FISH_T1	2	2	0	2.05	2.35	0.3	-0.05	-0.04	0	0	0	0	0	0
4/18/2024 15:19	24104	EHAZ_T1	0	27	27	0	0.11	0.11	0	0	0	0	0	0	0	0
4/18/2024 15:19	67603	WARW_T1	4	1	-3	0.73	0.5	-0.23	0.01	-0.03	0	0	0	0	0	0
4/18/2024 15:19	24102	EHAZ_T1	2	1	-1	0.3	0	-0.3	0.3	-0.2	0	0	0	0	0	0
4/18/2024 15:19	24105	EHAZ_T1	5	5	0	5.18	6.33	1.15	0	0	0	0	0	0	0	0
4/18/2024 15:19	67605	WARW_T1	59	44	-15	0.66	0.79	0.13	0	0	0	0	0	0	0	0
4/18/2024 15:20	66502	SMAN_T2	3	8	5	0.5	0.39	-0.11	0	0	0	0	0	0	0	0
4/18/2024 15:20	66505	SMAN_T2	3	3	0	0.27	0.8	0.53	0	0	0	0	0	0	0	0
4/18/2024 15:20	44201	POIN_T1	9	64	55	0.22	0.15	-0.07	-2.1	-2.11	2	2	0	2100	2100	0
4/18/2024 15:20	42701	AUGU_T1	5	4	-1	0.56	0.53	-0.03	0	0	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/18/2024 15:20	44203	POIN_T2	0	0	0	0	0	0	-0.84	0.21	2	1	-1	2100	900	-1200
4/18/2024 15:20	66504	SMAN_T2	2	1	-1	0.25	0.1	-0.15	-0.96	-1	0	0	0	0	0	0
4/18/2024 15:20	66501	SMAN_T2	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/18/2024 15:21	13103	NHAM_T2	0	0	0	0	0	0	-1.79	-1.77	1	1	0	600	600	0
4/18/2024 15:21	67605	WARW_T1	59	44	-15	0.66	0.79	0.13	-1.14	-1.14	0	0	0	0	0	0
4/18/2024 15:21	67603	WARW_T1	4	1	-3	0.73	0.5	-0.23	0	0	0	0	0	0	0	0
4/18/2024 15:22	43302	WATS_T2	4	4	0	0.25	0.58	0.33	0	0	0	0	0	0	0	0
4/18/2024 15:22	42701	AUGU_T1	5	4	-1	0.56	0.53	-0.03	0	0	2	2	0	1800	1800	0
4/18/2024 15:22	43304	WATS_T2	0	0	0	0	0	0	-0.57	-0.54	0	0	0	0	0	0
4/18/2024 15:22	44201	POIN_T1	9	64	55	0.22	0.15	-0.07	-2.1	-2.11	2	2	0	2100	2100	0
4/18/2024 15:23	43802	SWIL_T1	0	1	1	0	0.1	0.1	-0.16	-0.19	1	1	0	600	600	0
4/18/2024 15:23	15001	BLMO_T1	5	8	3	0.22	0.29	0.07	0	0	0	0	0	0	0	0
4/18/2024 15:23	43801	SWIL_T1	5	14	9	1.18	0.61	-0.57	0	0	0	0	0	0	0	0
4/18/2024 15:24	41601	CLEV_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/18/2024 15:25	42701	AUGU_T1	5	4	-1	0.56	0.53	-0.03	0	0	2	2	0	1800	1800	0
4/18/2024 15:25	15001	BLMO_T1	5	8	3	0.22	0.29	0.07	0	0	0	0	0	0	0	0
4/18/2024 15:26	16301	ALPA_T1	89	4	-85	0.15	0.23	0.08	-0.45	-0.45	0	0	0	0	0	0
4/18/2024 15:26	44202	POIN_T2	0	0	0	0	0	0	-0.68	-0.74	1	1	0	1200	1200	0
4/18/2024 15:26	15001	BLMO_T1	5	8	3	0.22	0.29	0.07	0	0	0	0	0	0	0	0
4/18/2024 15:27	41601	CLEV_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/18/2024 15:27	51204	MTON_T2	0	0	0	0	0	0	-0.47	-0.47	1	1	0	600	600	0
4/18/2024 15:27	16301	ALPA_T1	89	4	-85	0.15	0.23	0.08	-0.45	-0.45	0	0	0	0	0	0
4/18/2024 15:27	14603	SWHI_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/18/2024 15:27	14601	SWHI_T1	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
4/18/2024 15:27	51202	MTON_T2	2	3	1	0.45	0.87	0.42	0	0	0	0	0	0	0	0
4/18/2024 15:31	67603	WARW_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/18/2024 15:31	67605	WARW_T1	44	31	-13	0.79	0.68	-0.11	-1.14	-1.16	0	0	0	0	0	0
4/18/2024 15:32	67605	WARW_T1	44	31	-13	0.79	0.68	-0.11	0	0	0	0	0	0	0	0
4/18/2024 15:32	67603	WARW_T1	1	1	0	0.5	0.7	0.2	-0.03	0.02	0	0	0	0	0	0
4/18/2024 15:35	67605	WARW_T1	44	31	-13	0.79	0.68	-0.11	0	0	0	0	0	0	0	0
4/18/2024 15:35	67603	WARW_T1	1	1	0	0.5	0.7	0.2	-0.03	0.02	0	0	0	0	0	0
4/18/2024 15:35	44502	HAMI_T2	2	2	0	1.7	2.1	0.4	-0.92	-0.92	0	0	0	0	0	0
4/18/2024 15:35	44505	HAMI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/18/2024 15:36	12502	MITR_T2	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
4/18/2024 15:36	12505	MITR_T2	0	0	0	0	0	0	1.08	0.89	0	0	0	0	0	0
4/18/2024 15:37	67605	WARW_T1	44	31	-13	0.79	0.68	-0.11	-1.14	-1.16	0	0	0	0	0	0
4/18/2024 15:37	67603	WARW_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/18/2024 15:40	51601	DUKE_T1	2	5	3	0.2	0.26	0.06	0	0	0	0	0	0	0	0
4/18/2024 15:40	51603	DUKE_T1	3	4	1	0.97	0.85	-0.12	-0.51	-0.53	0	0	0	0	0	0
4/18/2024 15:41	46004	BERW_T2	0	0	0	0	0	0	-0.17	-0.22	0	0	0	0	0	0
4/18/2024 15:43	41601	CLEV_T1	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/18/2024 15:43	40302	TAMA_T3	24	23	-1	0.51	0.44	-0.07	0.17	0.26	0	0	0	0	0	0
4/18/2024 15:43	40303	TAMA_T3	3	2	-1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/18/2024 15:43	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 15:43	41602	CLEV_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/18/2024 15:43	51602	DUKE_T2	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/18/2024 15:43	13901	SEID_T1	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
4/18/2024 15:43	51604	DUKE_T2	4	3	-1	0.48	0.7	0.22	-0.37	-0.36	0	0	0	0	0	0
4/18/2024 15:46	59002	MIFF_T1	6	6	0	0.52	0.57	0.05	0	0	0	0	0	0	0	0
4/18/2024 15:46	53903	HALI_T2	12	10	-2	0.63	0.69	0.06	0	0	0	0	0	0	0	0
4/18/2024 15:46	67603	WARW_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/18/2024 15:46	53901	HALI_T2	3	3	0	0.57	0.57	0	-1.04	-1.05	0	0	0	0	0	0
4/18/2024 15:46	59001	MIFF_T1	1	17	16	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/18/2024 15:46	67605	WARW_T1	30	30	0	0.7	0.64	-0.06	-1.16	-1.15	0	0	0	0	0	0
4/18/2024 15:46	53902	HALI_T2	3	3	0	2.4	2.2	-0.2	0	0	0	0	0	0	0	0
4/18/2024 15:46	59003	MIFF_T1	1	1	0	0.8	1	0.2	-0.24	-0.44	0	0	0	0	0	0
4/18/2024 15:50	46301	ROHR_T1	285	288	3	0.54	0.52	-0.02	0	0	0	0	0	0	0	0
4/18/2024 15:50	46302	ROHR_T1	143	149	6	0.32	0.31	-0.01	0.15	0.14	0	0	0	0	0	0
4/18/2024 15:52	67603	WARW_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/18/2024 15:52	20403	ASHF_T2	2	0	-2	0.4	0	-0.4	0.87	0.77	0	0	0	0	0	0
4/18/2024 15:52	67605	WARW_T1	30	30	0	0.7	0.64	-0.06	-1.16	-1.15	0	0	0	0	0	0
4/18/2024 15:52	46302	ROHR_T1	143	149	6	0.32	0.31	-0.01	0.15	0.14	0	0	0	0	0	0
4/18/2024 15:52	45402	WBLO_T2	2	2	0	1	1	0	-0.85	-0.86	0	0	0	0	0	0
4/18/2024 15:52	46301	ROHR_T1	285	288	3	0.54	0.52	-0.02	0.21	0.19	0	0	0	0	0	0
4/18/2024 15:53	66703	STRA_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
4/18/2024 15:53	45402	WBLO_T2	2	2	0	1	1	0	-0.85	-0.86	0	0	0	0	0	0
4/18/2024 15:53	66701	STRA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/18/2024 15:53	20403	ASHF_T2	2	0	-2	0.4	0	-0.4	0.77	0.66	0	0	0	0	0	0
4/18/2024 15:56	45402	WBLO_T2	2	2	0	1	1	0	-0.86	-0.88	0	0	0	0	0	0
4/18/2024 15:56	20403	ASHF_T2	2	0	-2	0.4	0	-0.4	0.77	0.66	0	0	0	0	0	0
4/18/2024 15:59	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 16:02	63401	HONY_T1	0	0	0	0	0	0	0.77	0.66	0	0	0	0	0	0
4/18/2024 16:02	51402	LYKE_T1	2	5	3	0.1	0.1	0	0	0	0	0	0	0	0	0
4/18/2024 16:02	63404	HONY_T1	18	20	2	0.19	0.19	0	0	0	0	0	0	0	0	0
4/18/2024 16:02	67605	WARW_T1	30	25	-5	0.63	0.63	0	-1.15	-1.18	0	0	0	0	0	0
4/18/2024 16:02	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
4/18/2024 16:02	67603	WARW_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/18/2024 16:07	13704	SCHN_T2	0	0	0	0	0	0	-0.39	-0.42	0	0	0	0	0	0
4/18/2024 16:07	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
4/18/2024 16:07	67603	WARW_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/18/2024 16:07	67605	WARW_T1	30	25	-5	0.63	0.63	0	-1.15	-1.18	0	0	0	0	0	0
4/18/2024 16:07	51402	LYKE_T1	2	5	3	0.1	0.1	0	0	0	0	0	0	0	0	0
4/18/2024 16:08	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 16:09	15104	UPHA_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
4/18/2024 16:09	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 16:09	15103	UPHA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/18/2024 16:12	61304	EARL_T1	0	0	0	0	0	0	-0.78	-0.89	1	1	0	600	600	0
4/18/2024 16:12	46206	DANV_T2	0	0	0	0	0	0	8.31	8.38	0	0	0	0	0	0
4/18/2024 16:12	46203	DANV_T2	25	72	47	0.19	0.25	0.06	0	0	0	0	0	0	0	0
4/18/2024 16:17	67605	WARW_T1	24	23	-1	0.65	0.57	-0.08	-1.18	-1.13	0	0	0	0	0	0
4/18/2024 16:19	24104	EHAZ_T1	11	3	-8	0.11	0.13	0.02	-0.97	-0.97	1	1	0	1200	1200	0
4/18/2024 16:19	24105	EHAZ_T1	4	4	0	6.48	6.63	0.15	0	0	0	0	0	0	0	0
4/18/2024 16:22	67605	WARW_T1	24	23	-1	0.65	0.57	-0.08	-1.18	-1.13	0	0	0	0	0	0
4/18/2024 16:22	12102	SALL_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
4/18/2024 16:27	63302	GREE_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
4/18/2024 16:28	24702	FLND_T2	0	0	0	0	0	0	0.63	0.89	1	0	-1	1200	0	-1200
4/18/2024 16:31	57303	MOAL_T2	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
4/18/2024 16:31	57304	MOAL_T2	8	11	3	0.2	0.2	0	-0.65	-0.68	0	0	0	0	0	0
4/18/2024 16:34	57304	MOAL_T2	8	11	3	0.2	0.2	0	-0.65	-0.68	0	0	0	0	0	0
4/18/2024 16:34	46506	LOHA_T1	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
4/18/2024 16:34	57303	MOAL_T2	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
4/18/2024 16:34	46504	LOHA_T1	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/18/2024 16:35	12801	MICK_T1	0	0	0	0	0	0	-0.24	-0.2	1	1	0	600	600	0
4/18/2024 16:35	12807	MICK_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/18/2024 16:39	60801	BUCK_T1	0	1	1	0	0.2	0.2	-0.85	-0.86	1	1	0	600	600	0
4/18/2024 16:41	41502	FAIR_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
4/18/2024 16:45	60801	BUCK_T1	1	0	-1	0.2	0	-0.2	-0.85	-0.86	1	1	0	600	600	0
4/18/2024 16:47	65205	PRIN_T1	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
4/18/2024 16:47	67605	WARW_T1	15	15	0	0.62	0.49	-0.13	-1.12	-1.14	0	0	0	0	0	0
4/18/2024 16:52	67502	WEWI_T2	1	0	-1	0.5	0	-0.5	-0.57	-0.55	0	0	0	0	0	0
4/18/2024 16:52	67605	WARW_T1	15	15	0	0.62	0.49	-0.13	-1.12	-1.14	0	0	0	0	0	0
4/18/2024 17:07	44202	POIN_T2	0	0	0	0	0	0	-0.67	-0.68	1	1	0	1200	1200	0
4/18/2024 17:07	45902	AUBU_T1	0	0	0	0	0	0	-0.89	-1.02	1	1	0	600	600	0
4/18/2024 17:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/18/2024 17:10	29402	BELT_T1	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
4/18/2024 17:11	45902	AUBU_T1	0	0	0	0	0	0	-3.05	-3.04	3	3	0	1800	1800	0
4/18/2024 17:11	41303	FISH_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
4/18/2024 17:11	60801	BUCK_T1	0	0	0	0	0	0	-0.82	-0.85	1	1	0	600	600	0
4/18/2024 17:14	41301	FISH_T1	2	2	0	2.1	2.1	0	0	0	0	0	0	0	0	0
4/18/2024 17:11	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 17:12	40702	FFLD_T1	164	28	-136	0.43	0.15	-0.28	-0.6	-0.58	1	1	0	1200	1200	0
4/18/2024 17:12	40703	FFLD_T1	4	3	-1	0.73	0.23	-0.5	0	0	0	0	0	0	0	0
4/18/2024 17:12	40701	FFLD_T1	75	28	-47	0.63	0.36	-0.27	0	0	0	0	0	0	0	0
4/18/2024 17:14	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	1	-1	900	450	-450
4/18/2024 17:15	53301	GRAT_T1	0	0	0	0	0	0	0	0	4	2	-2	1800	900	-900
4/18/2024 17:16	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	1	-1	900	450	-450
4/18/2024 17:17	45902	AUBU_T1	0	0	0	0	0	0	-1.02	-1.01	1	1	0	600	600	0
4/18/2024 17:25	67702	WERN_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
4/18/2024 17:25	60801	BUCK_T1	0	0	0	0	0	0	-0.85	-0.87	1	1	0	600	600	0
4/18/2024 17:25	14203	EALL_T1	0	0	0	0	0	0	-0.44	-0.4	1	1	0	1200	1200	0
4/18/2024 17:26	25503	MADI_T1	85	47	-38	0.18	0.15	-0.03	-1.01	-0.99	0	0	0	0	0	0
4/18/2024 17:27	65207	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/18/2024 17:27	67702	WERN_T2	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
4/18/2024 17:28	63804	HEMP_T1	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
4/18/2024 17:28	63801	HEMP_T1	1	0	-1	0.3	0	-0.3	-0.2	-0.3	0	0	0	0	0	0
4/18/2024 17:28	63803	HEMP_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/18/2024 17:33	13302	ORVI_T2	0	0	0	0	0	0	1.29	1.35	0	0	0	0	0	0
4/18/2024 17:35	66203	SISP_T2	0	0	0	0	0	0	-1.34	-1.34	1	1	0	1200	1200	0
4/18/2024 17:35	15203	SFAR_T2	0	0	0	0	0	0	-1.55	-1.56	0	0	0	0	0	0
4/18/2024 17:36	43302	WATS_T2	4	4	0	0.73	0.68	-0.05	0	0	0	0	0	0	0	0
4/18/2024 17:36	43301	WATS_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
4/18/2024 17:38	60101	COCA_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
4/18/2024 17:38	13303	ORVI_T1	0	0	0	0	0	0	0.84	0.84	0	0	0	0	0	0
4/18/2024 17:38	66202	SISP_T2	0	0	0	0	0	0	-0.64	-0.4	0	0	0	0	0	0
4/18/2024 17:41	56501	ROCK_T2	2	2	0	0.45	0.45	0	-0.02	-0.02	0	0	0	0	0	0
4/18/2024 17:43	64501	LAVI_T1	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
4/18/2024 17:46	56501	ROCK_T2	2	2	0	0.45	0.4	-0.05	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 17:47	50506	MECH_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
4/18/2024 17:47	50502	MECH_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 17:47	50501	MECH_T1	4	4	0	0.75	0.73	-0.02	0	0	0	0	0	0	0	0
4/18/2024 17:47	64501	LAVI_T1	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
4/18/2024 17:48	60501	NMAN_T2	3	3	0	4.93	4.77	-0.16	0	0	0	0	0	0	0	0
4/18/2024 17:48	64301	LAVI_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
4/18/2024 17:48	60502	NMAN_T2	0	0	0	0	0	0	-0.49	-0.44	0	0	0	0	0	0
4/18/2024 17:49	50502	MECH_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 17:49	64501	LAVI_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
4/18/2024 17:49	50501	MECH_T1	4	4	0	0.75	0.73	-0.02	0	0	0	0	0	0	0	0
4/18/2024 17:49	50506	MECH_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
4/18/2024 17:51	14702	TREX_T2	0	0	0	0	0	0	0.61	0.81	0	0	0	0	0	0
4/18/2024 17:52	65802	RTWN_T2	0	0	0	0	0	0	-1.08	-1.1	0	0	0	0	0	0
4/18/2024 17:52	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/18/2024 17:52	62106	ELAN_T1	4	5	1	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
4/18/2024 17:52	62104	ELAN_T1	0	0	0	0	0	0	0.72	0.73	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/18/2024 17:52	14702	TREX_T2	0	0	0	0	0	0	0.61	0.81	0	0	0	0	0	0
4/18/2024 17:52	62103	ELAN_T1	1	3	2	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
4/18/2024 17:52	62105	ELAN_T1	78	92	14	0.13	0.13	0	0	0	0	0	0	0	0	0
4/18/2024 17:53	65802	RTWN_T2	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
4/18/2024 17:56	62607	ENGL_T1	0	0	0	0	0	0	-1.15	-1.17	1	1	0	300	300	0
4/18/2024 17:57	46001	BERW_T1	0	0	0	0	0	0	0.92	0.9	0	0	0	0	0	0
4/18/2024 17:57	14203	EALL_T1	0	0	0	0	0	0	-0.37	-0.41	1	1	0	1200	1200	0
4/18/2024 18:03	12601	MACA_T1	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
4/18/2024 18:03	47104	MARL_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
4/18/2024 18:04	50502	MECH_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 18:04	50506	MECH_T1	0	0	0	0	0	0	-0.01	0.27	0	0	0	0	0	0
4/18/2024 18:04	50501	MECH_T1	4	4	0	0.7	0.73	0.03	0	0	0	0	0	0	0	0
4/18/2024 18:08	57104	SPHI_T2	0	1	1	0	4.7	4.7	-1.09	-1.14	1	1	0	900	900	0
4/18/2024 18:08	65804	RTWN_T1	0	0	0	0	0	0	-0.15	-0.17	1	1	0	600	600	0
4/18/2024 18:08	57101	SPHI_T2	6	6	0	0.93	1.08	0.15	0	0	0	0	0	0	0	0
4/18/2024 18:08	57106	SPHI_T2	2	2	0	1.25	1.6	0.35	0	0	0	0	0	0	0	0
4/18/2024 18:09	57101	SPHI_T2	6	6	0	0.93	1.08	0.15	0	0	0	0	0	0	0	0
4/18/2024 18:09	57104	SPHI_T2	0	1	1	0	4.7	4.7	0	0	0	0	0	0	0	0
4/18/2024 18:09	57106	SPHI_T2	2	2	0	1.25	1.6	0.35	0	0	0	0	0	0	0	0
4/18/2024 18:09	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 18:09	57103	SPHI_T2	0	0	0	0	0	0	-0.22	-0.25	1	1	0	600	600	0
4/18/2024 18:13	63305	GREE_T1	0	0	0	0	0	0	-1.16	-1.13	0	0	0	0	0	0
4/18/2024 18:14	47401	PENS_T1	0	0	0	0	0	0	1	0.91	0	0	0	0	0	0
4/18/2024 18:14	63305	GREE_T1	0	0	0	0	0	0	-1.16	-1.13	0	0	0	0	0	0
4/18/2024 18:14	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/18/2024 18:19	64401	LAND_T1	0	0	0	0	0	0	-1.14	-1.16	1	1	0	600	600	0
4/18/2024 18:19	24902	WHHA_T1	1	10	9	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
4/18/2024 18:20	13303	ORVI_T1	0	0	0	0	0	0	0.83	0.8	0	0	0	0	0	0
4/18/2024 18:20	47001	HUGH_T2	0	392	392	0	1.99	1.99	0	0	0	0	0	0	0	0
4/18/2024 18:21	59202	THOM_T1	187	86	-101	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
4/18/2024 18:21	15203	SFAR_T2	0	0	0	0	0	0	-1.55	-1.54	0	0	0	0	0	0
4/18/2024 18:21	47001	HUGH_T2	0	392	392	0	1.99	1.99	0	0	0	0	0	0	0	0
4/18/2024 18:21	59201	THOM_T1	8	7	-1	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
4/18/2024 18:23	15203	SFAR_T2	0	0	0	0	0	0	-1.55	-1.54	0	0	0	0	0	0
4/18/2024 18:23	43201	MVIL_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/18/2024 18:23	59202	THOM_T1	187	86	-101	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
4/18/2024 18:23	59201	THOM_T1	8	7	-1	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
4/18/2024 18:23	43202	MVIL_T2	96	87	-9	0.63	0.77	0.14	-0.68	-1.09	0	0	0	0	0	0
4/18/2024 18:29	61302	EARL_T1	0	0	0	0	0	0	-0.2	-0.15	2	2	0	1800	1800	0
4/18/2024 18:31	64201	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/18/2024 18:31	64204	KINZ_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
4/18/2024 18:31	64203	KINZ_T1	0	0	0	0	0	0	0.22	0.17	0	0	0	0	0	0
4/18/2024 18:32	42002	MNVL_T2	1	1	0	2.4	2.3	-0.1	0.19	0.13	0	0	0	0	0	0
4/18/2024 18:32	42001	MNVL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/18/2024 18:35	52501	PROG_T1	0	0	0	0	0	0	0.38	0.4	1	1	0	300	300	0
4/18/2024 18:36	52501	PROG_T1	0	0	0	0	0	0	0.38	0.4	1	1	0	300	300	0
4/18/2024 18:37	52501	PROG_T1	0	0	0	0	0	0	0.38	0.4	1	1	0	300	300	0
4/18/2024 18:41	51604	DUKE_T2	0	0	0	0	0	0	-0.37	-0.34	0	0	0	0	0	0
4/18/2024 18:44	50103	HARR_T3	2	2	0	0.95	0.5	-0.45	0	0	0	0	0	0	0	0
4/18/2024 18:44	50105	HARR_T3	6	6	0	5.78	5.82	0.04	0	0	0	0	0	0	0	0
4/18/2024 18:44	52002	LING_T2	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
4/18/2024 18:44	52004	LING_T2	1	1	0	0.3	0.5	0.2	0.09	0.1	0	0	0	0	0	0
4/18/2024 18:44	52006	LING_T2	3	3	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
4/18/2024 18:44	50107	HARR_T3	0	0	0	0	0	0	0.46	0.43	0	0	0	0	0	0
4/18/2024 18:44	50201	HARR_T3	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/18/2024 18:45	57505	LAWN_T3	9	8	-1	0.52	0.54	0.02	0	0	0	0	0	0	0	0
4/18/2024 18:45	57502	LAWN_T3	0	0	0	0	0	0	-0.63	-0.57	0	0	0	0	0	0
4/18/2024 18:46	63802	HEMP_T1	0	0	0	0	0	0	0.19	0.16	0	0	0	0	0	0
4/18/2024 18:46	63804	HEMP_T1	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
4/18/2024 18:47	48301	ORWI_T1	2	2	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
4/18/2024 18:55	60903	DONG_T2	0	0	0	0	0	0	0.27	0.33	1	1	0	600	600	0
4/18/2024 18:55	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 18:55	40502	CRES_T2	9	13	4	0.19	0.27	0.08	0.59	0.56	0	0	0	0	0	0
4/18/2024 18:56	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 18:56	40502	CRES_T2	9	13	4	0.19	0.27	0.08	0.59	0.56	0	0	0	0	0	0
4/18/2024 19:04	52006	LING_T2	3	3	0	1.17	1.2	0.03	0	0	0	0	0	0	0	0
4/18/2024 19:04	52004	LING_T2	1	1	0	0.5	0.5	0	0.1	0.08	0	0	0	0	0	0
4/18/2024 19:04	52002	LING_T2	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
4/18/2024 19:04	44901	SCOT_T2	0	0	0	0	0	0	-0.07	-0.14	0	0	0	0	0	0
4/18/2024 19:05	65702	RVIL_T2	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
4/18/2024 19:07	65702	RVIL_T2	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
4/18/2024 19:10	40502	CRES_T2	13	11	-2	0.27	0.14	-0.13	0.56	0.6	0	0	0	0	0	0
4/18/2024 19:10	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 20:09	59101	WALK_T2	0	0	0	0	0	0	3.01	2.76	0	0	0	0	0	0
4/18/2024 20:09	11801	FRAN_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
4/18/2024 20:17	50202	HARR_T3	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/18/2024 20:17	50102	HARR_T3	2	7	5	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
4/18/2024 20:17	50201	HARR_T3	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/18/2024 20:17	50105	HARR_T3	6	6	0	6.02	5.83	-0.19	0	0	0	0	0	0	0	0
4/18/2024 20:17	50103	HARR_T3	2	2	0	1.2	1.25	0.05	-1.07	-1.05	1	1	0	1200	1200	0
4/18/2024 20:34	64702	LITI_T2	0	0	0	0	0	0	-0.77	-0.73	0	0	0	0	0	0
4/18/2024 20:36	51204	MTON_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	600	600	0
4/18/2024 20:38	64702	LITI_T2	0	0	0	0	0	0	-0.73	-0.66	0	0	0	0	0	0
4/18/2024 20:39	64702	LITI_T2	0	0	0	0	0	0	-0.73	-0.66	0	0	0	0	0	0
4/18/2024 21:24	29402	BELT_T1	1	1	0	6.6	7.1	0.5	0	0	0	0	0	0	0	0
4/18/2024 21:24	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
4/18/2024 21:27	47104	MARL_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
4/18/2024 21:27	46301	ROHR_T1	248	300	52	0.44	0.69	0.25	0	0	0	0	0	0	0	0
4/18/2024 21:27	46302	ROHR_T1	65	180	115	0.3	0.45	0.15	0.1	0.15	0	0	0	0	0	0
4/18/2024 21:27	25402	LAHA_T2	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
4/18/2024 21:28	45901	AUBU_T1	0	0	0	0	0	0	2.19	2.22	0	0	0	0	0	0
4/18/2024 21:28	29402	BELT_T1	1	1	0	6.6	7.1	0.5	0	0	0	0	0	0	0	0
4/18/2024 21:28	45902	AUBU_T1	0	14	14	0	0.15	0.15	-1.11	-1.19	1	1	0	600	600	0
4/18/2024 21:29	20401	ASHF_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/18/2024 21:29	20403	ASHF_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
4/18/2024 21:30	41301	FISH_T1	6	6	0	0.7	0.83	0.13	-0.07	-0.11	0	0	0	0	0	0
4/18/2024 21:30	45902	AUBU_T1	0	15	15	0	0.14	0.14	-1.11	-1.19	1	1	0	600	600	0
4/18/2024 21:31	67002	STHI_T2	498	811	313	0.19	0.29	0.1	0.55	0.54	0	0	0	0	0	0
4/18/2024 21:31	67001	STHI_T2	666	882	216	0.4	0.48	0.08	0	0	0	0	0	0	0	0
4/18/2024 21:31	46004	BERW_T2	0	0	0	0	0	0	-0.35	-0.41	0	0	0	0	0	0
4/18/2024 21:31	46002	BERW_T2	0	0	0	0	0	0	-1.16	-1.15	1	1	0	900	900	0
4/18/2024 21:32	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:32	29402	BELT_T1	1	1	0	6.8	7.1	0.3	0	0	0	0	0	0	0	0
4/18/2024 21:32	45902	AUBU_T1	0	15	15	0	0.14	0.14	-1.11	-1.19	1	1	0	600	600	0
4/18/2024 21:32	40502	CRES_T2	5	6	1	0.16	0.2	0.04	0.45	0.45	0	0	0	0	0	0
4/18/2024 21:32	24702	FLND_T2	0	0	0	0	0	0	0.74	1.11	0	0	0	0	0	0
4/18/2024 21:32	13103	NHAM_T2	0	0	0	0	0	0	-1.75	-1.77	1	1	0	600	600	0
4/18/2024 21:32	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/18/2024 21:32	46001	BERW_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
4/18/2024 21:33	41301	FISH_T1	6	6	0	0.7	0.83	0.13	0	0	0	0	0	0	0	0
4/18/2024 21:33	24901	WHHA_T1	0	10	10	0	0.11	0.11	0	0	0	0	0	0	0	0
4/18/2024 21:33	46004	BERW_T2	0	0	0	0	0	0	-0.35	-0.41	0	0	0	0	0	0
4/18/2024 21:33	45902	AUBU_T1	0	15	15	0	0.14	0.14	-1.11	-1.19	1	1	0	600	600	0
4/18/2024 21:33	41303	FISH_T1	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
4/18/2024 21:33	47102	MARL_T2	14	15	1	0.13	0.21	0.08	0	0	0	0	0	0	0	0
4/18/2024 21:33	47103	MARL_T2	3	14	11	0.17	0.14	-0.03	-0.69	-0.69	0	0	0	0	0	0
4/18/2024 21:33	24902	WHHA_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/18/2024 21:34	12801	MICK_T1	0	0	0	0	0	0	-0.31	-0.31	1	1	0	600	600	0
4/18/2024 21:34	64501	LAVI_T1	0	0	0	0	0	0	-0.36	-0.25	0	0	0	0	0	0
4/18/2024 21:34	12807	MICK_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:34	24901	WHHA_T1	0	10	10	0	0.11	0.11	0	0	0	0	0	0	0	0
4/18/2024 21:34	12803	MICK_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/18/2024 21:34	24902	WHHA_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/18/2024 21:35	40602	PIGR_T1	0	0	0	0	0	0	-0.22	-0.26	0	0	0	0	0	0
4/18/2024 21:35	29402	BELT_T1	1	1	0	6.8	7.1	0.3	0	0	0	0	0	0	0	0
4/18/2024 21:35	48301	ORWI_T1	2	2	0	6	4.1	-1.9	0	0	0	0	0	0	0	0
4/18/2024 21:35	40601	PIGR_T1	93	136	43	0.18	0.23	0.05	0	0	0	0	0	0	0	0
4/18/2024 21:35	45902	AUBU_T1	0	15	15	0	0.14	0.14	-1.11	-1.19	1	1	0	600	600	0
4/18/2024 21:35	24102	EHAZ_T1	0	1	1	0	0	0	-0.32	0.33	0	0	0	0	0	0
4/18/2024 21:35	24105	EHAZ_T1	4	4	0	6.25	5.93	-0.32	0	0	0	0	0	0	0	0
4/18/2024 21:35	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/18/2024 21:35	41502	FAIR_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
4/18/2024 21:36	14501	SCHO_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
4/18/2024 21:36	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:36	44902	SCOT_T2	2	13	11	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/18/2024 21:36	47002	HUGH_T2	0	13	13	0	0.12	0.12	0	0	0	0	0	0	0	0
4/18/2024 21:36	44901	SCOT_T2	0	0	0	0	0	0	-0.24	-0.21	0	0	0	0	0	0
4/18/2024 21:36	42401	GIMA_T1	12	32	20	0.11	0.16	0.05	0	0	0	0	0	0	0	0
4/18/2024 21:36	47001	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:36	14502	SCHO_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/18/2024 21:36	13901	SEID_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
4/18/2024 21:37	61103	BERK_T5	15	60	45	0.11	0.12	0.01	-0.01	0.04	0	0	0	0	0	0
4/18/2024 21:37	61102	BERK_T5	2	5	3	0.35	0.24	-0.11	0	0	0	0	0	0	0	0
4/18/2024 21:37	14203	EALL_T1	0	0	0	0	0	0	1.56	1.6	0	0	0	0	0	0
4/18/2024 21:37	14702	TREX_T2	0	0	0	0	0	0	0.72	0.84	0	0	0	0	0	0
4/18/2024 21:37	61101	BERK_T5	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/18/2024 21:37	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/18/2024 21:37	29402	BELT_T1	1	1	0	6.8	7.1	0.3	0	0	0	0	0	0	0	0
4/18/2024 21:37	14404	SSLA_T1	1	1	0	5.7	6.2	0.5	-0.03	-0.04	0	0	0	0	0	0
4/18/2024 21:37	14703	TREX_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/18/2024 21:38	65503	MOJO_T2	19	7	-12	0.26	0.11	-0.15	-0.66	-0.67	0	0	0	0	0	0
4/18/2024 21:38	61103	BERK_T5	15	60	45	0.11	0.12	0.01	0.04	-0.01	0	0	0	0	0	0
4/18/2024 21:38	67001	STHI_T2	666	882	216	0.4	0.48	0.08	0	0	0	0	0	0	0	0
4/18/2024 21:38	61102	BERK_T5	2	5	3	0.35	0.24	-0.11	0	0	0	0	0	0	0	0
4/18/2024 21:38	61101	BERK_T5	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/18/2024 21:38	16301	ALPA_T1	2	108	106	0.4	0.14	-0.26	-0.51	-0.54	0	0	0	0	0	0
4/18/2024 21:38	11601	CEAL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:38	65502	MOJO_T2	52	0	-52	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/18/2024 21:38	67703	WERN_T2	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
4/18/2024 21:38	41901	REED_T1	9	9	0	0.63	0.29	-0.34	0	0	0	0	0	0	0	0
4/18/2024 21:38	43104	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:38	67002	STHI_T2	498	811	313	0.19	0.29	0.1	1.08	1.02	0	0	0	0	0	0
4/18/2024 21:38	14603	SWHI_T1	0	0	0	0	0	0	-0.84	-0.92	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/18/2024 21:38	14802	TREI_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
4/18/2024 21:38	44203	POIN_T2	0	0	0	0	0	0	0.14	0.14	1	1	0	900	900	0
4/18/2024 21:38	11603	CEAL_T1	1	1	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
4/18/2024 21:38	41902	REED_T1	0	0	0	0	0	0	1.01	0.94	0	0	0	0	0	0
4/18/2024 21:38	43103	SMIL_T2	21	22	1	0.93	1.25	0.32	0	0	0	0	0	0	0	0
4/18/2024 21:38	28604	BLYT_T2	0	1	1	0	0.1	0.1	-1.57	-1.59	0	0	0	0	0	0
4/18/2024 21:38	13704	SCHN_T2	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
4/18/2024 21:38	43105	SMIL_T2	16	27	11	0.31	0.35	0.04	0	0	0	0	0	0	0	0
4/18/2024 21:38	46301	ROHR_T1	272	314	42	0.51	0.68	0.17	0.16	0.16	0	0	0	0	0	0
4/18/2024 21:38	43102	SMIL_T2	8	7	-1	0.68	0.99	0.31	0	0	0	0	0	0	0	0
4/18/2024 21:38	46302	ROHR_T1	140	178	38	0.31	0.46	0.15	0	0	0	0	0	0	0	0
4/18/2024 21:38	43101	SMIL_T2	0	0	0	0	0	0	-0.84	-0.86	0	0	0	0	0	0
4/18/2024 21:39	67002	STHI_T2	498	811	313	0.19	0.29	0.1	1.08	1.02	0	0	0	0	0	0
4/18/2024 21:39	24105	EHAZ_T1	4	4	0	6.25	5.93	-0.32	0	0	0	0	0	0	0	0
4/18/2024 21:39	24104	EHAZ_T1	0	0	0	0	0	0	-1.01	-1	1	1	0	1200	1200	0
4/18/2024 21:39	24102	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:39	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:39	46302	ROHR_T1	140	178	38	0.31	0.46	0.15	0	0	0	0	0	0	0	0
4/18/2024 21:39	46301	ROHR_T1	272	314	42	0.51	0.68	0.17	0.16	0.12	0	0	0	0	0	0
4/18/2024 21:39	63403	HONY_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
4/18/2024 21:39	20403	ASHF_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
4/18/2024 21:39	63402	HONY_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/18/2024 21:39	67001	STHI_T2	666	882	216	0.4	0.48	0.08	0	0	0	0	0	0	0	0
4/18/2024 21:39	42201	SHEN_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
4/18/2024 21:39	41901	REED_T1	9	9	0	0.63	0.29	-0.34	0	0	0	0	0	0	0	0
4/18/2024 21:39	47102	MARL_T2	14	15	1	0.13	0.21	0.08	0	0	0	0	0	0	0	0
4/18/2024 21:39	64901	MILL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:39	64904	MILL_T1	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
4/18/2024 21:39	41902	REED_T1	0	0	0	0	0	0	1.01	0.94	0	0	0	0	0	0
4/18/2024 21:39	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
4/18/2024 21:39	15203	SFAR_T2	0	0	0	0	0	0	-1.61	-1.65	0	0	0	0	0	0
4/18/2024 21:39	47103	MARL_T2	3	14	11	0.17	0.14	-0.03	-0.69	-0.69	0	0	0	0	0	0
4/18/2024 21:39	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:40	14801	TREI_T2	0	0	0	0	0	0	0.38	0.47	0	0	0	0	0	0
4/18/2024 21:40	40802	EXCH_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
4/18/2024 21:40	14601	SWHI_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
4/18/2024 21:40	13303	ORVI_T1	0	0	0	0	0	0	0.75	0.8	0	0	0	0	0	0
4/18/2024 21:40	67002	STHI_T2	498	811	313	0.19	0.29	0.1	1.08	1.02	0	0	0	0	0	0
4/18/2024 21:40	51004	NHAR_T1	21	13	-8	0.92	1.21	0.29	-0.46	-0.49	0	0	0	0	0	0
4/18/2024 21:40	13301	ORVI_T1	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
4/18/2024 21:40	64202	KINZ_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/18/2024 21:40	64201	KINZ_T1	2	2	0	0.35	0.4	0.05	-0.27	-0.29	2	2	0	1200	1200	0
4/18/2024 21:40	64204	KINZ_T1	1	2	1	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
4/18/2024 21:40	15203	SFAR_T2	0	0	0	0	0	0	-1.61	-1.65	0	0	0	0	0	0
4/18/2024 21:40	16301	ALPA_T1	2	108	106	0.4	0.14	-0.26	-0.54	-0.51	0	0	0	0	0	0
4/18/2024 21:40	51002	NHAR_T1	1	1	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
4/18/2024 21:40	64501	LAVI_T1	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
4/18/2024 21:40	51006	NHAR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/18/2024 21:40	51003	NHAR_T1	36	4	-32	0.16	0.28	0.12	0	0	0	0	0	0	0	0
4/18/2024 21:40	67001	STHI_T2	666	882	216	0.4	0.48	0.08	0	0	0	0	0	0	0	0
4/18/2024 21:41	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:41	45902	AUBU_T1	0	15	15	0	0.14	0.14	-1.19	-1.21	1	1	0	600	600	0
4/18/2024 21:41	17401	FOHI_T1	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
4/18/2024 21:41	47002	HUGH_T2	0	13	13	0	0.12	0.12	0	0	0	0	0	0	0	0
4/18/2024 21:41	47001	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:42	43202	MVIL_T2	163	184	21	0.76	1.13	0.37	-0.76	-0.76	0	0	0	0	0	0
4/18/2024 21:42	41301	FISH_T1	6	6	0	0.7	0.83	0.13	-0.11	-0.1	0	0	0	0	0	0
4/18/2024 21:42	67502	WEWI_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
4/18/2024 21:42	12601	MACA_T1	0	0	0	0	0	0	0.63	0.65	0	0	0	0	0	0
4/18/2024 21:42	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:42	12102	SALL_T2	0	0	0	0	0	0	0.16	0.26	0	0	0	0	0	0
4/18/2024 21:42	66203	WSP_T2	0	0	0	0	0	0	-1.34	-1.37	1	1	0	1200	1200	0
4/18/2024 21:42	67603	WARW_T1	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
4/18/2024 21:42	23001	SAJO_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
4/18/2024 21:42	43201	MVIL_T2	2	2	0	0.4	0.75	0.35	0	0	0	0	0	0	0	0
4/18/2024 21:42	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
4/18/2024 21:42	43304	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:42	61103	BERK_T5	15	60	45	0.11	0.12	0.01	0.04	-0.01	0	0	0	0	0	0
4/18/2024 21:42	61102	BERK_T5	2	5	3	0.35	0.24	-0.11	0	0	0	0	0	0	0	0
4/18/2024 21:42	43302	WATS_T2	4	4	0	1.18	1.18	0	0	0	0	0	0	0	0	0
4/18/2024 21:42	61101	BERK_T5	2	2	0	0.2	0.25	0.05	-0.69	-0.73	0	0	0	0	0	0
4/18/2024 21:42	43301	WATS_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
4/18/2024 21:42	67605	WARW_T1	17	42	25	0.38	0.54	0.16	0	0	0	0	0	0	0	0
4/18/2024 21:43	12505	MITR_T2	0	0	0	0	0	0	0.87	0.86	0	0	0	0	0	0
4/18/2024 21:43	61102	BERK_T5	2	5	3	0.35	0.24	-0.11	0	0	0	0	0	0	0	0
4/18/2024 21:43	67002	STHI_T2	498	811	313	0.19	0.29	0.1	0.54	0.51	0	0	0	0	0	0
4/18/2024 21:43	12502	MITR_T2	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
4/18/2024 21:43	61103	BERK_T5	15	60	45	0.11	0.12	0.01	0.07	-0.01	0	0	0	0	0	0
4/18/2024 21:43	67605	WARW_T1	17	42	25	0.38	0.54	0.16	0	0	0	0	0	0	0	0
4/18/2024 21:43	41301	FISH_T1	6	6	0	0.7	0.83	0.13	-0.11	-0.1	0	0	0	0	0	0
4/18/2024 21:43	64501	LAVI_T1	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
4/18/2024 21:43	46001	BERW_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
4/18/2024 21:43	67001	STHI_T2	666	882	216	0.4	0.48	0.08	0	0	0	0	0	0	0	0
4/18/2024 21:43	12102	SALL_T2	0	0	0	0	0	0	0.08	0.13	0	0	0	0	0	0
4/18/2024 21:43	10805	OHHI_T2	1	1	0	7.5	7.2	-0.3	-0.93	-1.02	0	0	0	0	0	0
4/18/2024 21:43	67603	WARW_T1	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
4/18/2024 21:43	65802	RTWN_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
4/18/2024 21:43	61101	BERK_T5	2	2	0	0.2	0.25	0.05	-0.69	-0.73	0	0	0	0	0	0
4/18/2024 21:43	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:44	61102	BERK_T5	2	5	3	0.35	0.24	-0.11	0	0	0	0	0	0	0	0
4/18/2024 21:44	10801	OHHI_T1	0	0	0	0	0	0	-1.01	-1.01	1	1	0	900	900	0
4/18/2024 21:44	67605	WARW_T1	17	42	25	0.38	0.54	0.16	-1.01	-1.04	0	0	0	0	0	0
4/18/2024 21:44	12006	HATF_T1	0	0	0	0	0	0	1.2	1.13	0	0	0	0	0	0
4/18/2024 21:44	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
4/18/2024 21:44	65207	PRIN_T4	0	2	2	0	0.1	0.1	0	0	1	1	0	1200	1200	0
4/18/2024 21:44	12102	SALL_T2	0	0	0	0	0	0	0.08	0.13	0	0	0	0	0	0
4/18/2024 21:44	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:44	65502	MOJO_T2	52	0	-52	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/18/2024 21:44	61101	BERK_T5	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/18/2024 21:44	65503	MOJO_T2	19	7	-12	0.26	0.11	-0.15	-0.66	-0.67	0	0	0	0	0	0
4/18/2024 21:44	61103	BERK_T5	15	60	45	0.11	0.12	0.01	0.04	-0.01	0	0	0	0	0	0
4/18/2024 21:44	63305	GREE_T1	7	7	0	0.21	0.24	0.03	-1.34	-1.31	0	0	0	0	0	0
4/18/2024 21:45	44201	POIN_T1	654	140	-514	0.43	0.18	-0.25	-2.47	-1.51	2	1	-1	2100	1200	-900
4/18/2024 21:45	47001	HUGH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:45	64202	KINZ_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:45	40702	FFLD_T1	111	129	18	0.29	0.37	0.08	-0.64	-0.67	1	1	0	1200	1200	0
4/18/2024 21:45	41801	GOCI_T2	123	150	27	0.22	0.29	0.07	0	0	0	0	0	0	0	0
4/18/2024 21:45	40703	FFLD_T1	4	4	0	0.53	0.65	0.12	0	0	0	0	0	0	0	0
4/18/2024 21:45	47002	HUGH_T2	10	18	8	0.13	0.13	0	0	0	0	0	0	0	0	0
4/18/2024 21:45	64501	LAVI_T1	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
4/18/2024 21:45	12102	SALL_T2	0	0	0	0	0	0	0.08	0.13	0	0	0	0	0	0
4/18/2024 21:45	67604	WARW_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
4/18/2024 21:45	47401	PENS_T1	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
4/18/2024 21:45	67605	WARW_T1	39	42	3	0.51	0.54	0.03	0	0	0	0	0	0	0	0
4/18/2024 21:45	17401	FOHI_T1	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
4/18/2024 21:45	64201	KINZ_T1	1	6	5	0.5	0.32	-0.18	0	0	0	0	0	0	0	0
4/18/2024 21:45	13302	ORVI_T2	0	0	0	0	0	0	1.35	1.35	0	0	0	0	0	0
4/18/2024 21:45	64204	KINZ_T1	1	29	28	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
4/18/2024 21:45	64203	KINZ_T1	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
4/18/2024 21:45	43304	WATS_T2	1	1	0	0.1	0.2	0.1	-0.6	-0.47	0	0	0	0	0	0
4/18/2024 21:45	41802	GOCI_T2	15	17	2	0.27	0.34	0.07	0	0	0	0	0	0	0	0
4/18/2024 21:45	64503	LAVI_T1	1	0	-1	3.3	0	-3.3	0	0	0	0	0	0	0	0
4/18/2024 21:45	43302	WATS_T2	4	4	0	1.18	1.13	-0.05	0	0	0	0	0	0	0	0
4/18/2024 21:45	40701	FFLD_T1	73	78	5	0.48	0.61	0.13	0	0	0	0	0	0	0	0
4/18/2024 21:46	40602	PIGR_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
4/18/2024 21:46	46302	ROHR_T1	175	176	1	0.45	0.43	-0.02	0.15	0.1	0	0	0	0	0	0
4/18/2024 21:46	61102	BERK_T5	5	1	-4	0.24	0.5	0.26	0.63	0.62	2	2	0	600	600	0
4/18/2024 21:46	40601	PIGR_T1	106	131	25	0.18	0.23	0.05	0	0	0	0	0	0	0	0
4/18/2024 21:46	61103	BERK_T5	60	3	-57	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
4/18/2024 21:46	61101	BERK_T5	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
4/18/2024 21:46	60101	COCA_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
4/18/2024 21:46	46301	ROHR_T1	300	314	14	0.68	0.65	-0.03	0.16	0.12	0	0	0	0	0	0
4/18/2024 21:47	62103	ELAN_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/18/2024 21:47	62102	ELAN_T1	1	0	-1	0.1	0	-0.1	0.55	0.66	0	0	0	0	0	0
4/18/2024 21:47	54504	ENOL_T2	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
4/18/2024 21:47	20401	ASHF_T2	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/18/2024 21:47	61103	BERK_T5	60	3	-57	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
4/18/2024 21:47	61506	EPET_T2	40	0	-40	0.1	0	-0.1	-1.22	-0.17	1	0	-1	900	0	-900
4/18/2024 21:47	54502	ENOL_T2	10	1	-9	0.18	0.7	0.52	0	0	0	0	0	0	0	0
4/18/2024 21:47	60101	COCA_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
4/18/2024 21:47	61101	BERK_T5	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
4/18/2024 21:47	20403	ASHF_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
4/18/2024 21:47	61102	BERK_T5	5	1	-4	0.24	0.5	0.26	0.31	0.31	1	1	0	300	300	0
4/18/2024 21:47	54501	ENOL_T2	4	0	-4	0.25	0	-0.25	0	0	0	0	0	0	0	0
4/18/2024 21:47	62105	ELAN_T1	155	166	11	0.15	0.15	0	0	0	0	0	0	0	0	0
4/18/2024 21:47	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
4/18/2024 21:47	11201	ELHE_T2	0	0	0	0	0	0	-0.35	-0.05	2	2	0	2400	2400	0
4/18/2024 21:47	13103	NHAM_T2	0	0	0	0	0	0	-1.77	-1.78	1	1	0	600	600	0
4/18/2024 21:47	62101	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:47	62106	ELAN_T1	8	10	2	0.3	0.31	0.01	0	0	0	0	0	0	0	0
4/18/2024 21:47	54505	ENOL_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
4/18/2024 21:48	62101	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:48	56501	ROCK_T2	2	2	0	0.3	0.3	0	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 21:48	63404	HONY_T1	28	31	3	0.18	0.18	0	0	0	0	0	0	0	0	0
4/18/2024 21:48	17401	FOHI_T1	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
4/18/2024 21:48	46206	DANV_T2	0	0	0	0	0	0	1.85	1.93	1	0	-1	1200	0	-1200
4/18/2024 21:48	50201	HARR_T3	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:48	61101	BERK_T5	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
4/18/2024 21:48	65702	RVIL_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
4/18/2024 21:48	50103	HARR_T3	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:48	64902	MILL_T2	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
4/18/2024 21:48	61302	EARL_T1	0	0	0	0	0	0	1.19	1.23	0	0	0	0	0	0
4/18/2024 21:48	65802	RTWN_T2	0	1	1	0	0	0	-0.59	-0.59	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/18/2024 21:48	61304	EARL_T1	27	18	-9	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
4/18/2024 21:48	61103	BERK_T5	60	3	-57	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
4/18/2024 21:48	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:48	57002	WHHI_T2	0	0	0	0	0	0	-0.23	-0.17	0	0	0	0	0	0
4/18/2024 21:48	62605	ENGL_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
4/18/2024 21:48	62606	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/18/2024 21:48	62607	ENGL_T1	0	2	2	0	0.1	0.1	-0.88	-0.89	0	0	0	0	0	0
4/18/2024 21:48	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
4/18/2024 21:48	62105	ELAN_T1	155	166	11	0.15	0.15	0	0	0	0	0	0	0	0	0
4/18/2024 21:48	62104	ELAN_T1	0	0	0	0	0	0	0.61	0.67	1	1	0	1200	1200	0
4/18/2024 21:48	44502	HAMI_T2	1	1	0	3.8	3.9	0.1	-1.02	-1.04	0	0	0	0	0	0
4/18/2024 21:48	50102	HARR_T3	3	12	9	0.13	0.2	0.07	0	0	0	0	0	0	0	0
4/18/2024 21:48	50202	HARR_T3	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:48	66703	STRA_T1	0	2	2	0	0.1	0.1	-0.46	-0.48	0	0	0	0	0	0
4/18/2024 21:48	62106	ELAN_T1	8	10	2	0.3	0.31	0.01	0	0	0	0	0	0	0	0
4/18/2024 21:48	61102	BERK_T5	5	1	-4	0.24	0.5	0.26	0.31	0.31	1	1	0	300	300	0
4/18/2024 21:48	13704	SCHN_T2	0	4	4	0	0.13	0.13	-0.41	-0.43	0	0	0	0	0	0
4/18/2024 21:48	50107	HARR_T3	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
4/18/2024 21:48	50105	HARR_T3	6	6	0	5.8	5.82	0.02	0	0	0	0	0	0	0	0
4/18/2024 21:48	42701	AUGU_T1	1	1	0	1.3	1.4	0.1	0	0	2	2	0	1800	1800	0
4/18/2024 21:48	47401	PENS_T1	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
4/18/2024 21:48	46203	DANV_T2	2	25	23	0.1	0.17	0.07	0	0	0	0	0	0	0	0
4/18/2024 21:48	62102	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/18/2024 21:48	63401	HONY_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
4/18/2024 21:48	45602	WOOL_T1	3	3	0	0.87	1.07	0.2	0.35	0.34	0	0	0	0	0	0
4/18/2024 21:48	62103	ELAN_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/18/2024 21:49	64204	KINZ_T1	1	29	28	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
4/18/2024 21:49	57303	MOAL_T2	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
4/18/2024 21:49	50202	HARR_T3	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:49	57006	WHHI_T2	0	0	0	0	0	0	1.28	1.35	1	1	0	600	600	0
4/18/2024 21:49	44302	BEAV_T2	0	64	64	0	0.22	0.22	0	0	0	0	0	0	0	0
4/18/2024 21:49	64201	KINZ_T1	1	6	5	0.5	0.32	-0.18	-0.27	-0.29	2	2	0	1200	1200	0
4/18/2024 21:49	57301	MOAL_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
4/18/2024 21:49	49804	UNIV_T1	1	0	-1	0.2	0	-0.2	0.33	0.36	0	0	0	0	0	0
4/18/2024 21:49	43104	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:49	50201	HARR_T3	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:49	47401	PENS_T1	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
4/18/2024 21:49	44301	BEAV_T2	0	1	1	0	0.2	0.2	0.59	0.57	1	1	0	600	600	0
4/18/2024 21:49	64202	KINZ_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:49	43102	SMIL_T2	7	7	0	0.89	0.99	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:49	43105	SMIL_T2	25	22	-3	0.32	0.4	0.08	0	0	0	0	0	0	0	0
4/18/2024 21:49	63802	HEMP_T1	0	0	0	0	0	0	0.1	0.05	0	0	0	0	0	0
4/18/2024 21:49	60801	BUCK_T1	9	0	-9	0.1	0	-0.1	-0.9	-0.92	1	1	0	600	600	0
4/18/2024 21:49	50102	HARR_T3	3	12	9	0.13	0.2	0.07	0	0	0	0	0	0	0	0
4/18/2024 21:49	63304	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:49	42701	AUGU_T1	1	1	0	1.3	1.4	0.1	0	0	2	2	0	1800	1800	0
4/18/2024 21:49	55003	NEWP_T2	14	14	0	0.41	0.79	0.38	-0.27	-0.28	0	0	0	0	0	0
4/18/2024 21:49	64902	MILL_T2	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
4/18/2024 21:49	43103	SMIL_T2	22	22	0	1.05	1.25	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:49	63804	HEMP_T1	1	1	0	6.2	5.9	-0.3	0	0	0	0	0	0	0	0
4/18/2024 21:49	43108	SMIL_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
4/18/2024 21:49	50103	HARR_T3	2	2	0	0.75	0.95	0.2	-1.02	-1.12	1	1	0	1200	1200	0
4/18/2024 21:49	63305	GREE_T1	7	15	8	0.24	0.34	0.1	-1.34	-1.31	0	0	0	0	0	0
4/18/2024 21:49	50105	HARR_T3	6	6	0	5.8	5.82	0.02	0	0	0	0	0	0	0	0
4/18/2024 21:49	57304	MOAL_T2	38	64	26	0.29	0.6	0.31	-0.64	-0.63	0	0	0	0	0	0
4/18/2024 21:49	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:50	41504	FAIR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:50	67605	WARW_T1	39	42	3	0.51	0.54	0.03	0	0	0	0	0	0	0	0
4/18/2024 21:50	64101	REFR_T1	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
4/18/2024 21:50	61102	BERK_T5	5	1	-4	0.24	0.5	0.26	0.31	0.31	1	1	0	300	300	0
4/18/2024 21:50	55003	NEWP_T2	14	14	0	0.41	0.79	0.38	-0.27	-0.28	0	0	0	0	0	0
4/18/2024 21:50	43104	SMIL_T2	0	1	1	0	0.2	0.2	-0.84	-0.87	1	1	0	300	300	0
4/18/2024 21:50	43801	SWIL_T1	12	15	3	0.73	0.61	-0.12	0	0	0	0	0	0	0	0
4/18/2024 21:50	41502	FAIR_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
4/18/2024 21:50	51401	LYKE_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
4/18/2024 21:50	65702	RVIL_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
4/18/2024 21:50	43103	SMIL_T2	22	22	0	1.05	1.25	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:50	64501	LAVI_T1	0	0	0	0	0	0	-0.51	-0.56	0	0	0	0	0	0
4/18/2024 21:50	50103	HARR_T3	2	2	0	0.75	0.95	0.2	-1.02	-1.12	1	1	0	1200	1200	0
4/18/2024 21:50	50201	HARR_T3	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:50	64503	LAVI_T1	1	0	-1	3.3	0	-3.3	0	0	0	0	0	0	0	0
4/18/2024 21:50	51402	LYKE_T1	5	17	12	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:50	65902	SAKR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:50	50102	HARR_T3	3	12	9	0.13	0.2	0.07	0	0	0	0	0	0	0	0
4/18/2024 21:50	43102	SMIL_T2	7	7	0	0.89	0.99	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:50	65903	SAKR_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:50	41802	GOCI_T2	15	17	2	0.27	0.34	0.07	0	0	0	0	0	0	0	0
4/18/2024 21:50	61103	BERK_T5	60	3	-57	0.12	0.1	-0.02	0.04	-0.01	0	0	0	0	0	0
4/18/2024 21:50	51906	COPA_T1	0	0	0	0	0	0	-0.24	-0.25	1	1	0	600	600	0
4/18/2024 21:50	65901	SAKR_T2	0	0	0	0	0	0	-1.42	-1.03	1	1	0	900	900	0
4/18/2024 21:50	61101	BERK_T5	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
4/18/2024 21:50	55002	NEWP_T1	6	6	0	0.58	0.8	0.22	-0.3	-0.3	0	0	0	0	0	0
4/18/2024 21:50	51904	COPA_T1	5	5	0	0.88	0.86	-0.02	0	0	0	0	0	0	0	0
4/18/2024 21:50	50105	HARR_T3	6	6	0	5.8	5.82	0.02	0	0	0	0	0	0	0	0
4/18/2024 21:50	43802	SWIL_T1	0	0	0	0	0	0	-0.21	-0.21	1	1	0	600	600	0
4/18/2024 21:50	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:50	65303	NBRI_T2	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
4/18/2024 21:50	66202	SISP_T2	0	0	0	0	0	0	-0.69	-0.62	0	0	0	0	0	0
4/18/2024 21:50	43105	SMIL_T2	25	22	-3	0.32	0.4	0.08	0	0	0	0	0	0	0	0
4/18/2024 21:50	50202	HARR_T3	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:50	67603	WARW_T1	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
4/18/2024 21:50	57001	WHHI_T2	0	0	0	0	0	0	-0.43	-0.44	1	1	0	900	900	0
4/18/2024 21:50	41801	GOCI_T2	123	150	27	0.22	0.29	0.07	0	0	0	0	0	0	0	0
4/18/2024 21:51	45701	LIND_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
4/18/2024 21:51	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:51	45402	WBLO_T2	1	2	1	1.5	0.75	-0.75	-0.93	-0.96	0	0	0	0	0	0
4/18/2024 21:51	51003	NHAR_T1	4	4	0	0.28	0.28	0	-2.95	-2.94	1	1	0	1200	1200	0
4/18/2024 21:51	55002	NEWP_T1	6	6	0	0.58	0.8	0.22	-0.3	-0.3	0	0	0	0	0	0
4/18/2024 21:51	57203	ROSS_T1	0	0	0	0	0	0	-0.37	-0.41	0	0	0	0	0	0
4/18/2024 21:51	53902	HALI_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
4/18/2024 21:51	15203	SFAR_T2	0	0	0	0	0	0	-1.61	-1.65	0	0	0	0	0	0
4/18/2024 21:51	51002	NHAR_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
4/18/2024 21:51	60802	BUCK_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
4/18/2024 21:51	53903	HALI_T2	2	2	0	1.2	1.3	0.1	-0.23	-0.23	0	0	0	0	0	0
4/18/2024 21:51	65202	PRIN_T1	57	0	-57	0.14	0	-0.14	0	0	0	0	0	0	0	0
4/18/2024 21:51	47401	PENS_T1	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
4/18/2024 21:51	42001	MNVL_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
4/18/2024 21:51	45702	LIND_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/18/2024 21:51	65203	PRIN_T1	10	0	-10	0.14	0	-0.14	0	0	0	0	0	0	0	0
4/18/2024 21:51	54601	SUMM_T2	9	6	-3	0.47	0.27	-0.2	-2	-1.97	2	2	0	2100	2100	0
4/18/2024 21:51	64802	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:51	53901	HALI_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/18/2024 21:51	64801	MONE_T2	1	1	0	0.3	0.8	0.5	0.23	0.24	0	0	0	0	0	0
4/18/2024 21:51	51004	NHAR_T1	13	13	0	1.12	1.18	0.06	0	0	0	0	0	0	0	0
4/18/2024 21:51	65205	PRIN_T1	28	1	-27	0.22	2.1	1.88	0	0	0	0	0	0	0	0
4/18/2024 21:51	42002	MNVL_T2	1	2	1	1.8	0.9	-0.9	0.17	0.16	0	0	0	0	0	0
4/18/2024 21:52	52006	LING_T2	3	3	0	1.07	1.27	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:52	43105	SMIL_T2	25	22	-3	0.32	0.4	0.08	0	0	0	0	0	0	0	0
4/18/2024 21:52	52004	LING_T2	0	1	1	0	0.4	0.4	0.1	0.1	0	0	0	0	0	0
4/18/2024 21:52	43102	SMIL_T2	7	7	0	0.89	0.99	0.1	-0.35	-0.37	0	0	0	0	0	0
4/18/2024 21:52	50103	HARR_T3	2	2	0	0.75	0.95	0.2	-1.02	-1.12	1	1	0	1200	1200	0
4/18/2024 21:52	50201	HARR_T3	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:52	64802	MONE_T2	0	1	1	0	0.1	0.1	0.12	0.13	0	0	0	0	0	0
4/18/2024 21:52	56501	ROCK_T2	2	2	0	0.3	0.3	0	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 21:52	50102	HARR_T3	3	12	9	0.13	0.2	0.07	0	0	0	0	0	0	0	0
4/18/2024 21:52	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:52	50105	HARR_T3	6	6	0	5.8	5.82	0.02	0	0	0	0	0	0	0	0
4/18/2024 21:52	64101	REFR_T1	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
4/18/2024 21:52	52002	LING_T2	1	1	0	1.4	1.8	0.4	0	0	0	0	0	0	0	0
4/18/2024 21:52	64801	MONE_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
4/18/2024 21:52	43104	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:52	43103	SMIL_T2	22	22	0	1.05	1.25	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:52	50202	HARR_T3	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:52	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
4/18/2024 21:53	42901	MIDD_T2	130	339	209	0.22	0.36	0.14	0	0	0	0	0	0	0	0
4/18/2024 21:53	54502	ENOL_T2	10	1	-9	0.18	0.7	0.52	0	0	0	0	0	0	0	0
4/18/2024 21:53	46203	DANV_T2	2	25	23	0.1	0.17	0.07	0	0	0	0	0	0	0	0
4/18/2024 21:53	53901	HALI_T2	1	1	0	0.1	0.6	0.5	0.05	-1.1	0	0	0	0	0	0
4/18/2024 21:53	54202	PENN_T2	382	78	-304	0.29	0.13	-0.16	0.5	0.48	0	0	0	0	0	0
4/18/2024 21:53	54204	PENN_T2	3	2	-1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/18/2024 21:53	53903	HALI_T2	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:53	54206	PENN_T2	117	41	-76	0.32	0.23	-0.09	0	0	0	0	0	0	0	0
4/18/2024 21:53	51402	LYKE_T1	5	17	12	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:53	55002	NEWP_T1	6	6	0	0.58	0.8	0.22	-0.3	-0.31	0	0	0	0	0	0
4/18/2024 21:53	42903	MIDD_T2	2	41	39	2.2	0.28	-1.92	0	0	0	0	0	0	0	0
4/18/2024 21:53	42701	AUGU_T1	1	1	0	1.3	1.4	0.1	0	0	4	4	0	3600	3600	0
4/18/2024 21:53	46206	DANV_T2	0	0	0	0	0	0	3.7	3.85	2	0	-2	2400	0	-2400
4/18/2024 21:53	63304	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:53	54505	ENOL_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
4/18/2024 21:53	59202	THOM_T1	21	277	256	0.14	0.28	0.14	0	0	0	0	0	0	0	0
4/18/2024 21:53	63302	GREE_T1	0	0	0	0	0	0	0.31	0.23	0	0	0	0	0	0
4/18/2024 21:53	46602	LACR_T1	0	0	0	0	0	0	-1.06	-1.11	0	0	0	0	0	0
4/18/2024 21:53	51401	LYKE_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
4/18/2024 21:53	45702	LIND_T2	1	1	0	0.8	0.8	0	-0.6	-0.59	0	0	0	0	0	0
4/18/2024 21:53	54501	ENOL_T2	4	0	-4	0.25	0	-0.25	-0.59	-0.59	1	1	0	600	600	0
4/18/2024 21:53	50102	HARR_T3	3	12	9	0.13	0.2	0.07	0	0	0	0	0	0	0	0
4/18/2024 21:53	50103	HARR_T3	2	2	0	0.75	0.95	0.2	-1.12	-1.12	1	1	0	1200	1200	0
4/18/2024 21:53	45402	WBLO_T2	1	2	1	1.5	0.75	-0.75	-0.93	-0.96	0	0	0	0	0	0
4/18/2024 21:53	53902	HALI_T2	1	1	0	5.4	5.3	-0.1	-0.3	-0.97	0	0	0	0	0	0
4/18/2024 21:53	54601	SUMM_T2	9	6	-3	0.47	0.27	-0.2	-1.97	-2.02	2	2	0	2100	2100	0
4/18/2024 21:53	45802	HEGI_T2	32	45	13	0.45	1.25	0.8	1.26	0.33	0	0	0	0	0	0
4/18/2024 21:53	46506	LOHA_T1	0	0	0	0	0	0	-0.47	-0.51	0	0	0	0	0	0
4/18/2024 21:53	63305	GREE_T1	7	15	8	0.24	0.34	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/18/2024 21:53	47401	PENS_T1	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
4/18/2024 21:53	61304	EARL_T1	27	18	-9	0.15	0.14	-0.01	-1.12	-1.17	1	1	0	600	600	0
4/18/2024 21:53	45602	WOOL_T1	3	3	0	0.87	1.07	0.2	0.35	0.34	0	0	0	0	0	0
4/18/2024 21:53	42902	MIDD_T2	87	199	112	0.24	0.41	0.17	-0.53	-0.55	0	0	0	0	0	0
4/18/2024 21:53	50201	HARR_T3	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:53	50105	HARR_T3	6	6	0	5.8	5.82	0.02	0	0	0	0	0	0	0	0
4/18/2024 21:53	67702	WERN_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
4/18/2024 21:53	50202	HARR_T3	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:53	46504	LOHA_T1	64	36	-28	0.37	0.29	-0.08	0	0	0	0	0	0	0	0
4/18/2024 21:53	59201	THOM_T1	0	13	13	0	0.25	0.25	0	0	0	0	0	0	0	0
4/18/2024 21:54	67702	WERN_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
4/18/2024 21:54	50201	HARR_T3	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:54	41901	REED_T1	9	2	-7	0.29	0.15	-0.14	0	0	0	0	0	0	0	0
4/18/2024 21:54	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:54	50202	HARR_T3	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:54	45501	DERR_T2	1	1	0	0.1	0.3	0.2	-0.21	-0.24	2	2	0	1800	1800	0
4/18/2024 21:54	42903	MIDD_T2	2	41	39	2.2	0.28	-1.92	0	0	0	0	0	0	0	0
4/18/2024 21:54	59302	MCAL_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/18/2024 21:54	65804	RTWN_T1	0	0	0	0	0	0	-0.3	-0.3	1	1	0	600	600	0
4/18/2024 21:54	54203	PENN_T1	18	18	0	1.28	0.73	-0.55	0.56	0.56	0	0	0	0	0	0
4/18/2024 21:54	42902	MIDD_T2	87	199	112	0.24	0.41	0.17	-0.55	-0.58	0	0	0	0	0	0
4/18/2024 21:54	50102	HARR_T3	3	12	9	0.13	0.2	0.07	0	0	0	0	0	0	0	0
4/18/2024 21:54	59301	MCAL_T1	2	3	1	0.8	0.9	0.1	-1.23	-1.23	0	0	0	0	0	0
4/18/2024 21:54	43304	WATS_T2	1	1	0	0.1	0.2	0.1	-0.47	-0.52	0	0	0	0	0	0
4/18/2024 21:54	54201	PENN_T1	11	9	-2	0.85	0.49	-0.36	0	0	0	0	0	0	0	0
4/18/2024 21:54	57502	LAWN_T3	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
4/18/2024 21:54	50105	HARR_T3	6	6	0	5.8	5.82	0.02	0	0	0	0	0	0	0	0
4/18/2024 21:54	57505	LAWN_T3	6	12	6	0.35	0.35	0	0	0	0	0	0	0	0	0
4/18/2024 21:54	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:54	42901	MIDD_T2	130	339	209	0.22	0.36	0.14	0	0	0	0	0	0	0	0
4/18/2024 21:54	40802	EXCH_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
4/18/2024 21:54	65802	RTWN_T2	0	1	1	0	0	0	-0.59	-0.61	0	0	0	0	0	0
4/18/2024 21:54	41902	REED_T1	0	0	0	0	0	0	0.94	0.95	0	0	0	0	0	0
4/18/2024 21:54	40101	HUNT_T2	0	0	0	0	0	0	-0.53	-0.57	0	0	0	0	0	0
4/18/2024 21:54	50103	HARR_T3	2	2	0	0.75	0.95	0.2	-1.12	-1.12	1	1	0	1200	1200	0
4/18/2024 21:54	60902	DONG_T2	0	0	0	0	0	0	0.41	0.36	0	0	0	0	0	0
4/18/2024 21:54	43302	WATS_T2	4	4	0	1.18	1.13	-0.05	0	0	0	0	0	0	0	0
4/18/2024 21:55	45702	LIND_T2	1	1	0	0.8	0.8	0	-0.59	-0.62	0	0	0	0	0	0
4/18/2024 21:55	54505	ENOL_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
4/18/2024 21:55	54502	ENOL_T2	10	1	-9	0.18	0.7	0.52	0	0	0	0	0	0	0	0
4/18/2024 21:55	53903	HALI_T2	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
4/18/2024 21:55	54501	ENOL_T2	4	0	-4	0.25	0	-0.25	-0.59	-0.59	1	1	0	600	600	0
4/18/2024 21:55	42701	AUGU_T1	1	1	0	1.3	1.4	0.1	0	0	4	4	0	3600	3600	0
4/18/2024 21:55	53902	HALI_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
4/18/2024 21:55	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:55	64101	REFR_T1	0	0	0	0	0	0	-1.04	-1.05	0	0	0	0	0	0
4/18/2024 21:55	40101	HUNT_T2	0	0	0	0	0	0	-0.53	-0.57	0	0	0	0	0	0
4/18/2024 21:55	61101	BERK_T5	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
4/18/2024 21:55	53901	HALI_T2	1	1	0	0.1	0.6	0.5	0.05	-1.1	0	0	0	0	0	0
4/18/2024 21:55	66703	STRA_T1	0	2	2	0	0.1	0.1	-0.48	-0.46	0	0	0	0	0	0
4/18/2024 21:55	15103	UPHA_T2	0	214	214	0	0.15	0.15	0	0	0	0	0	0	0	0
4/18/2024 21:55	15104	UPHA_T2	0	8	8	0	0.1	0.1	0.37	0.34	0	0	0	0	0	0
4/18/2024 21:55	59101	WALK_T2	0	0	0	0	0	0	1.13	1.02	0	0	0	0	0	0
4/18/2024 21:55	61102	BERK_T5	5	1	-4	0.24	0.5	0.26	0	0	0	0	0	0	0	0
4/18/2024 21:55	57401	SPAN_T1	2	2	0	0.5	0.75	0.25	0	0	0	0	0	0	0	0
4/18/2024 21:55	57403	SPAN_T1	0	8	8	0	0.15	0.15	-0.1	-0.11	0	0	0	0	0	0
4/18/2024 21:55	61103	BERK_T5	60	3	-57	0.12	0.1	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 21:55	45402	WBLO_T2	1	2	1	1.5	0.75	-0.75	-0.96	-0.94	0	0	0	0	0	0
4/18/2024 21:56	50505	MECH_T1	10	304	294	0.12	0.14	0.02	0	0	0	0	0	0	0	0
4/18/2024 21:56	55002	NEWP_T1	6	6	0	0.58	0.8	0.22	-0.3	-0.31	0	0	0	0	0	0
4/18/2024 21:56	59301	MCAL_T1	2	3	1	0.8	0.9	0.1	-1.23	-1.23	0	0	0	0	0	0
4/18/2024 21:56	57205	ROSS_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
4/18/2024 21:56	63801	HEMP_T1	0	0	0	0	0	0	-0.19	-0.06	0	0	0	0	0	0
4/18/2024 21:56	57304	MOAL_T2	38	64	26	0.29	0.6	0.31	-0.63	-0.68	0	0	0	0	0	0
4/18/2024 21:56	50502	MECH_T1	1	39	38	3.4	0.22	-3.18	0	0	0	0	0	0	0	0
4/18/2024 21:56	63804	HEMP_T1	1	1	0	6.2	5.9	-0.3	0	0	0	0	0	0	0	0
4/18/2024 21:56	59202	THOM_T1	21	277	256	0.14	0.28	0.14	0	0	0	0	0	0	0	0
4/18/2024 21:56	43103	SMIL_T2	22	22	0	1.05	1.25	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:56	50504	MECH_T1	143	479	336	0.15	0.23	0.08	0	0	0	0	0	0	0	0
4/18/2024 21:56	59201	THOM_T1	0	13	13	0	0.25	0.25	0	0	0	0	0	0	0	0
4/18/2024 21:56	50503	MECH_T1	2	106	104	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/18/2024 21:56	41901	REED_T1	9	2	-7	0.29	0.15	-0.14	0	0	0	0	0	0	0	0
4/18/2024 21:56	43104	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/18/2024 21:56	41902	REED_T1	0	0	0	0	0	0	0.94	0.95	0	0	0	0	0	0
4/18/2024 21:56	51301	WIND_T1	0	0	0	0	0	0	-0.47	-0.38	0	0	0	0	0	0
4/18/2024 21:56	57303	MOAL_T2	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
4/18/2024 21:56	50506	MECH_T1	11	539	528	0.13	0.14	0.01	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 21:56	57301	MOAL_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
4/18/2024 21:56	45701	LIND_T2	0	0	0	0	0	0	0.36	0.19	0	0	0	0	0	0
4/18/2024 21:56	43102	SMIL_T2	7	7	0	0.89	0.99	0.1	-0.37	-0.36	0	0	0	0	0	0
4/18/2024 21:56	52501	PROG_T1	0	0	0	0	0	0	0.27	0.3	1	1	0	300	300	0
4/18/2024 21:56	43105	SMIL_T2	25	22	-3	0.32	0.4	0.08	0	0	0	0	0	0	0	0
4/18/2024 21:56	59302	MCAL_T1	1	1	0	0.1	0.5	0.4	-0.34	-0.33	1	1	0	600	600	0
4/18/2024 21:56	50501	MECH_T1	5	91	86	1.76	0.25	-1.51	0	0	0	0	0	0	0	0
4/18/2024 21:56	45702	LIND_T2	1	1	0	0.8	0.8	0	-0.59	-0.62	0	0	0	0	0	0
4/18/2024 21:56	57203	ROSS_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
4/18/2024 21:57	67402	WAKE_T2	0	0	0	0	0	0	-0.53	-0.53	1	1	0	600	600	0
4/18/2024 21:57	43802	SWIL_T1	0	0	0	0	0	0	-0.21	-0.21	1	1	0	600	600	0
4/18/2024 21:57	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:57	43801	SWIL_T1	12	15	3	0.73	0.61	-0.12	0	0	0	0	0	0	0	0
4/18/2024 21:57	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 21:57	57203	ROSS_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
4/18/2024 21:58	51603	DUKE_T1	2	2	0	0.8	0.8	0	-0.42	-0.51	0	0	0	0	0	0
4/18/2024 21:58	57104	SPHI_T2	1	1	0	2.4	0	-2.4	-0.27	-0.29	0	0	0	0	0	0
4/18/2024 21:58	40802	EXCH_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
4/18/2024 21:58	61702	ELIZ_T2	0	0	0	0	0	0	-1.04	-1.05	1	1	0	300	300	0
4/18/2024 21:58	57101	SPHI_T2	6	6	0	1.43	1.55	0.12	0	0	0	0	0	0	0	0
4/18/2024 21:58	61704	ELIZ_T2	5	6	1	0.46	0.6	0.14	0	0	0	0	0	0	0	0
4/18/2024 21:58	45802	HEGI_T2	32	45	13	0.45	1.25	0.8	1.26	0.33	0	0	0	0	0	0
4/18/2024 21:58	42802	SELI_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
4/18/2024 21:58	57106	SPHI_T2	2	2	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
4/18/2024 21:58	46203	DANV_T2	2	25	23	0.1	0.17	0.07	0.12	0.1	0	0	0	0	0	0
4/18/2024 21:58	46206	DANV_T2	0	0	0	0	0	0	3.85	3.69	0	2	2	0	2400	2400
4/18/2024 21:58	58006	WCAR_T2	0	0	0	0	0	0	0.29	0.23	0	0	0	0	0	0
4/18/2024 21:59	53901	HALI_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/18/2024 21:59	44302	BEAV_T2	0	64	64	0	0.22	0.22	0	0	0	0	0	0	0	0
4/18/2024 21:59	41801	GOCI_T2	123	150	27	0.22	0.29	0.07	0	0	0	0	0	0	0	0
4/18/2024 21:59	50504	MECH_T1	143	479	336	0.15	0.23	0.08	0	0	0	0	0	0	0	0
4/18/2024 21:59	52501	PROG_T1	0	0	0	0	0	0	0.27	0.3	1	1	0	300	300	0
4/18/2024 21:59	44301	BEAV_T2	0	1	1	0	0.2	0.2	0.57	0.4	1	1	0	600	600	0
4/18/2024 21:59	50502	MECH_T1	1	39	38	3.4	0.22	-3.18	0	0	0	0	0	0	0	0
4/18/2024 21:59	50506	MECH_T1	11	539	528	0.13	0.14	0.01	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 21:59	44202	POIN_T2	0	0	0	0	0	0	-0.73	-0.81	1	1	0	1200	1200	0
4/18/2024 21:59	50503	MECH_T1	2	106	104	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/18/2024 21:59	57004	WHHI_T2	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
4/18/2024 21:59	41802	GOCI_T2	15	17	2	0.27	0.34	0.07	0	0	0	0	0	0	0	0
4/18/2024 21:59	53902	HALI_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
4/18/2024 21:59	50501	MECH_T1	5	91	86	1.76	0.25	-1.51	0	0	0	0	0	0	0	0
4/18/2024 21:59	50505	MECH_T1	10	304	294	0.12	0.14	0.02	0	0	0	0	0	0	0	0
4/18/2024 21:59	53903	HALI_T2	2	2	0	1.2	1.3	0.1	-0.23	-0.23	0	0	0	0	0	0
4/18/2024 21:59	47401	PENS_T1	0	0	0	0	0	0	1.55	1.51	0	0	0	0	0	0
4/18/2024 22:00	51101	CARL_T1	0	0	0	0	0	0	-0.83	-0.81	0	0	0	0	0	0
4/18/2024 22:00	50505	MECH_T1	304	0	-304	0.14	0	-0.14	0	0	0	0	0	0	0	0
4/18/2024 22:00	57103	SPHI_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
4/18/2024 22:00	41901	REED_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/18/2024 22:00	50503	MECH_T1	106	0	-106	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/18/2024 22:00	57101	SPHI_T2	6	6	0	1.55	0.92	-0.63	0	0	0	0	0	0	0	0
4/18/2024 22:00	57104	SPHI_T2	1	0	-1	7.3	0	-7.3	0	0	0	0	0	0	0	0
4/18/2024 22:00	42902	MIDD_T2	123	195	72	0.32	0.41	0.09	-0.55	-0.58	0	0	0	0	0	0
4/18/2024 22:00	42901	MIDD_T2	206	347	141	0.3	0.36	0.06	0	0	0	0	0	0	0	0
4/18/2024 22:00	41902	REED_T1	0	0	0	0	0	0	0.94	0.95	0	0	0	0	0	0
4/18/2024 22:00	57106	SPHI_T2	2	2	0	1.5	1	-0.5	0	0	0	0	0	0	0	0
4/18/2024 22:00	46801	HEPB_T2	2	2	0	0.55	0.65	0.1	0.52	0.53	0	0	0	0	0	0
4/18/2024 22:00	50506	MECH_T1	539	0	-539	0.14	0	-0.14	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 22:00	42903	MIDD_T2	5	41	36	1.1	0.28	-0.82	0	0	0	0	0	0	0	0
4/18/2024 22:00	50504	MECH_T1	478	0	-478	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/18/2024 22:00	50501	MECH_T1	91	4	-87	0.25	1	0.75	0	0	0	0	0	0	0	0
4/18/2024 22:00	64401	LAND_T1	0	0	0	0	0	0	-1.21	-1.23	1	1	0	600	600	0
4/18/2024 22:00	51102	CARL_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/18/2024 22:00	51108	CARL_T1	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
4/18/2024 22:00	50502	MECH_T1	39	1	-38	0.22	2.1	1.88	0	0	0	0	0	0	0	0
4/18/2024 22:00	51104	CARL_T1	0	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0
4/18/2024 22:01	59003	MIFF_T1	1	0	-1	0.3	0	-0.3	0.36	0.33	0	0	0	0	0	0
4/18/2024 22:01	55002	NEWP_T1	6	4	-2	0.8	0.48	-0.32	-0.3	-0.31	0	0	0	0	0	0
4/18/2024 22:01	51604	DUKE_T2	0	0	0	0	0	0	-0.7	-2.89	0	2	2	0	1800	1800
4/18/2024 22:01	57401	SPAN_T1	2	2	0	0.75	0.45	-0.3	0	0	0	0	0	0	0	0
4/18/2024 22:01	57403	SPAN_T1	8	0	-8	0.15	0	-0.15	-0.1	-0.11	0	0	0	0	0	0
4/18/2024 22:01	56501	ROCK_T2	2	0	-2	0.3	0	-0.3	-0.02	-0.02	0	0	0	0	0	0
4/18/2024 22:01	58402	MORO_T1	0	0	0	0	0	0	-0.31	-0.38	2	2	0	1500	1500	0
4/18/2024 22:01	59002	MIFF_T1	5	0	-5	0.28	0	-0.28	0	0	0	0	0	0	0	0
4/18/2024 22:01	44201	POIN_T1	140	7	-133	0.18	0.13	-0.05	-1.51	-1.49	1	1	0	1200	1200	0
4/18/2024 22:02	53901	HALI_T2	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
4/18/2024 22:02	57106	SPHI_T2	2	2	0	1.5	1	-0.5	0	0	0	0	0	0	0	0
4/18/2024 22:02	57104	SPHI_T2	1	0	-1	7.3	0	-7.3	0	0	0	0	0	0	0	0
4/18/2024 22:02	57103	SPHI_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
4/18/2024 22:02	52501	PROG_T1	0	0	0	0	0	0	0.27	0.3	1	1	0	300	300	0
4/18/2024 22:02	53903	HALI_T2	2	2	0	1.1	1.55	0.45	-0.23	-0.23	0	0	0	0	0	0
4/18/2024 22:02	53902	HALI_T2	1	1	0	5.3	5.5	0.2	-0.3	-0.97	0	0	0	0	0	0
4/18/2024 22:02	57101	SPHI_T2	6	6	0	1.55	0.92	-0.63	0	0	0	0	0	0	0	0
4/18/2024 22:02	65502	MOJO_T2	0	0	0	0	0	0	-0.96	-1.07	0	0	0	0	0	0
4/18/2024 22:03	53903	HALI_T2	2	2	0	1.1	1.55	0.45	0	0	0	0	0	0	0	0
4/18/2024 22:03	42903	MIDD_T2	5	41	36	1.1	0.28	-0.82	0	0	0	0	0	0	0	0
4/18/2024 22:03	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/18/2024 22:03	42901	MIDD_T2	206	347	141	0.3	0.36	0.06	0	0	0	0	0	0	0	0
4/18/2024 22:03	52006	LING_T2	3	3	0	1.27	1.17	-0.1	0	0	0	0	0	0	0	0
4/18/2024 22:03	53901	HALI_T2	1	1	0	0.2	1	0.8	0.05	-1.1	0	0	0	0	0	0
4/18/2024 22:03	52002	LING_T2	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
4/18/2024 22:03	42902	MIDD_T2	123	195	72	0.32	0.41	0.09	-1.1	-1.16	0	0	0	0	0	0
4/18/2024 22:03	52004	LING_T2	1	1	0	0.4	0.2	-0.2	0.1	0.1	0	0	0	0	0	0
4/18/2024 22:04	59102	WALK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/18/2024 22:04	53903	HALI_T2	2	2	0	1.1	1.55	0.45	0	0	0	0	0	0	0	0
4/18/2024 22:04	59101	WALK_T2	0	0	0	0	0	0	1.13	1.02	0	0	0	0	0	0
4/18/2024 22:04	53902	HALI_T2	1	1	0	5.3	5.5	0.2	-0.3	-0.97	0	0	0	0	0	0
4/18/2024 22:04	59003	MIFF_T1	1	0	-1	0.3	0	-0.3	0.36	0.33	0	0	0	0	0	0
4/18/2024 22:04	53901	HALI_T2	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
4/18/2024 22:04	59002	MIFF_T1	5	0	-5	0.28	0	-0.28	0	0	0	0	0	0	0	0
4/18/2024 22:05	57403	SPAN_T1	8	0	-8	0.15	0	-0.15	-0.1	-0.11	0	0	0	0	0	0
4/18/2024 22:05	57401	SPAN_T1	2	2	0	0.75	0.45	-0.3	0	0	0	0	0	0	0	0
4/18/2024 22:05	56501	ROCK_T2	2	0	-2	0.3	0	-0.3	-0.01	-0.01	0	0	0	0	0	0
4/18/2024 22:06	54601	SUMM_T2	6	3	-3	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
4/18/2024 22:06	50501	MECH_T1	91	4	-87	0.25	1	0.75	-0.23	-0.14	0	0	0	0	0	0
4/18/2024 22:06	50505	MECH_T1	304	0	-304	0.14	0	-0.14	0	0	0	0	0	0	0	0
4/18/2024 22:06	58402	MORO_T1	0	0	0	0	0	0	-0.31	-0.38	2	2	0	1500	1500	0
4/18/2024 22:06	50506	MECH_T1	539	0	-539	0.14	0	-0.14	0	0	0	0	0	0	0	0
4/18/2024 22:06	50503	MECH_T1	106	0	-106	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/18/2024 22:06	44302	BEAV_T2	5	64	59	0.12	0.22	0.1	0	0	0	0	0	0	0	0
4/18/2024 22:06	58401	MORO_T1	0	0	0	0	0	0	-1.32	-1.35	1	1	0	600	600	0
4/18/2024 22:06	44301	BEAV_T2	0	1	1	0	0.2	0.2	0.57	0.4	1	1	0	600	600	0
4/18/2024 22:06	57004	WHHI_T2	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
4/18/2024 22:06	50504	MECH_T1	478	0	-478	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/18/2024 22:06	50502	MECH_T1	39	1	-38	0.22	2.1	1.88	0	0	0	0	0	0	0	0
4/18/2024 22:06	54602	SUMM_T2	0	0	0	0	0	0	-1.18	-1.19	1	1	0	600	600	0
4/18/2024 22:07	58401	MORO_T1	0	0	0	0	0	0	-1.32	-1.35	1	1	0	600	600	0
4/18/2024 22:08	53903	HALI_T2	2	2	0	1.1	1.55	0.45	-0.23	-0.24	0	0	0	0	0	0
4/18/2024 22:08	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
4/18/2024 22:08	66503	SMAN_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
4/18/2024 22:08	53901	HALI_T2	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
4/18/2024 22:10	66502	SMAN_T2	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
4/18/2024 22:10	60501	NMAN_T2	3	3	0	4.87	4.97	0.1	0	0	0	0	0	0	0	0
4/18/2024 22:10	60502	NMAN_T2	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
4/18/2024 22:11	60502	NMAN_T2	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
4/18/2024 22:11	60501	NMAN_T2	3	3	0	4.87	4.97	0.1	0	0	0	0	0	0	0	0
4/18/2024 22:11	66503	SMAN_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
4/18/2024 22:12	67603	WARW_T1	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
4/18/2024 22:12	67605	WARW_T1	42	3	-39	0.54	0.23	-0.31	-1.03	-1.08	0	0	0	0	0	0
4/18/2024 22:12	66504	SMAN_T2	0	0	0	0	0	0	-1.46	-1.63	0	0	0	0	0	0
4/18/2024 22:13	67603	WARW_T1	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
4/18/2024 22:13	67605	WARW_T1	42	3	-39	0.54	0.23	-0.31	-1.03	-1.08	0	0	0	0	0	0
4/18/2024 22:17	66502	SMAN_T2	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
4/18/2024 22:17	67605	WARW_T1	3	12	9	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/18/2024 22:17	67603	WARW_T1	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
4/18/2024 22:27	54202	PENN_T2	0	32	32	0	0.11	0.11	0	0	0	0	0	0	0	0
4/18/2024 22:27	54206	PENN_T2	0	41	41	0	0.18	0.18	-0.1	-0.11	0	0	0	0	0	0
4/18/2024 22:27	54204	PENN_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/18/2024 22:28	15104	UPHA_T2	8	24	16	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/18/2024 22:28	15103	UPHA_T2	214	359	145	0.15	0.2	0.05	0.3	0.29	0	0	0	0	0	0
4/18/2024 22:33	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 22:37	62605	ENGL_T1	5	0	-5	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/18/2024 22:37	62607	ENGL_T1	42	0	-42	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/18/2024 22:37	62601	ENGL_T1	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
4/18/2024 22:45	60903	DONG_T2	0	1	1	0	0	0	-0.1	-0.12	1	1	0	600	600	0
4/18/2024 23:05	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 23:05	40303	TAMA_T3	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/18/2024 23:05	40302	TAMA_T3	5	7	2	0.36	0.36	0	0.29	0.26	0	0	0	0	0	0
4/18/2024 23:11	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2024 23:20	13103	NHAM_T2	0	0	0	0	0	0	-1.81	-1.71	1	1	0	600	600	0
4/18/2024 23:51	56501	ROCK_T2	2	2	0	0.5	0.6	0.1	-0.01	-0.01	0	0	0	0	0	0
4/19/2024 7:07	29402	BELT_T1	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
4/19/2024 7:07	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/19/2024 7:22	14404	SSLA_T1	1	2	1	4.6	4.5	-0.1	-0.02	-0.02	0	0	0	0	0	0
4/19/2024 7:41	14205	EALL_T2	0	0	0	0	0	0	-0.41	-0.46	0	0	0	0	0	0
4/19/2024 7:49	15203	SFAR_T2	0	0	0	0	0	0	-1.59	-1.59	0	0	0	0	0	0
4/19/2024 7:49	15204	SFAR_T2	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
4/19/2024 7:51	15204	SFAR_T2	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
4/19/2024 8:08	67002	STHI_T2	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
4/19/2024 8:13	40502	CRES_T2	9	2	-7	0.21	0.1	-0.11	0.03	0.01	0	0	0	0	0	0
4/19/2024 8:13	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 8:14	13501	MCMI_T1	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
4/19/2024 8:15	13501	MCMI_T1	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
4/19/2024 8:18	65702	RVIL_T2	0	12	12	0	0	0	-1.12	-1.11	1	1	0	600	600	0
4/19/2024 8:19	24902	WHHA_T1	3	1	-2	1	0.9	-0.1	0	0	0	0	0	0	0	0
4/19/2024 8:19	65702	RVIL_T2	0	12	12	0	0	0	-1.12	-1.11	1	1	0	600	600	0
4/19/2024 8:20	66201	SISP_T2	0	0	0	0	0	0	-0.5	-0.56	0	0	0	0	0	0
4/19/2024 8:21	65702	RVIL_T2	0	12	12	0	0	0	-1.12	-1.11	1	1	0	600	600	0
4/19/2024 8:23	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/19/2024 8:23	29402	BELT_T1	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
4/19/2024 8:26	59101	WALK_T2	0	0	0	0	0	0	0.78	1.42	0	0	0	0	0	0
4/19/2024 8:27	51102	CARL_T1	5	4	-1	0.12	0.13	0.01	0	0	0	0	0	0	0	0
4/19/2024 8:27	51107	CARL_T1	0	0	0	0	0	0	0.08	0.16	0	0	0	0	0	0
4/19/2024 8:27	51104	CARL_T1	1	0	-1	5.9	0	-5.9	0	0	0	0	0	0	0	0
4/19/2024 8:39	65702	RVIL_T2	0	0	0	0	0	0	-1.11	-1.14	1	1	0	600	600	0
4/19/2024 8:40	45901	AUBU_T1	0	0	0	0	0	0	1.67	1.72	0	0	0	0	0	0
4/19/2024 8:40	45902	AUBU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 8:41	62607	ENGL_T1	0	0	0	0	0	0	-1.22	-1.22	1	1	0	300	300	0
4/19/2024 8:41	46203	DANV_T2	168	129	-39	0.58	0.48	-0.1	-1.14	-1.11	0	0	0	0	0	0
4/19/2024 8:41	46206	DANV_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/19/2024 8:41	61801	EELI_T2	0	1	1	0	0.1	0.1	-0.97	-0.95	1	1	0	600	600	0
4/19/2024 8:41	40504	CRES_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
4/19/2024 8:41	62605	ENGL_T1	0	0	0	0	0	0	-2.7	-2.61	0	0	0	0	0	0
4/19/2024 8:41	40505	CRES_T1	3	3	0	5	4.83	-0.17	0	0	0	0	0	0	0	0
4/19/2024 8:41	14705	TREX_T1	0	0	0	0	0	0	0.14	0.28	0	0	0	0	0	0
4/19/2024 8:42	50107	HARR_T3	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
4/19/2024 8:42	50105	HARR_T3	6	6	0	5.57	5.55	-0.02	0	0	0	0	0	0	0	0
4/19/2024 8:42	50103	HARR_T3	2	2	0	0.95	1.05	0.1	0	0	0	0	0	0	0	0
4/19/2024 8:44	62605	ENGL_T1	0	0	0	0	0	0	-0.9	-0.87	0	0	0	0	0	0
4/19/2024 8:44	62602	ENGL_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
4/19/2024 8:44	61503	EPET_T1	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
4/19/2024 8:44	62607	ENGL_T1	0	0	0	0	0	0	-1.22	-1.22	1	1	0	300	300	0
4/19/2024 8:45	62605	ENGL_T1	0	0	0	0	0	0	-0.9	-0.87	0	0	0	0	0	0
4/19/2024 8:49	60502	NMAN_T2	0	0	0	0	0	0	-0.12	-0.25	0	0	0	0	0	0
4/19/2024 8:49	60501	NMAN_T2	24	33	9	0.86	0.7	-0.16	0	0	0	0	0	0	0	0
4/19/2024 8:50	60501	NMAN_T2	24	33	9	0.86	0.7	-0.16	0	0	0	0	0	0	0	0
4/19/2024 8:50	60502	NMAN_T2	0	0	0	0	0	0	-0.12	-0.25	0	0	0	0	0	0
4/19/2024 8:52	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
4/19/2024 8:52	67605	WARW_T1	12	17	5	0.42	0.35	-0.07	0	0	0	0	0	0	0	0
4/19/2024 8:57	10705	CATA_T2	0	0	0	0	0	0	-0.99	-0.99	1	1	0	900	900	0
4/19/2024 8:57	62605	ENGL_T1	0	0	0	0	0	0	-1.74	-1.72	0	0	0	0	0	0
4/19/2024 8:58	10705	CATA_T2	0	0	0	0	0	0	-1.97	-1.98	2	2	0	1800	1800	0
4/19/2024 9:09	46203	DANV_T2	95	176	81	0.38	0.6	0.22	-1.12	-1.1	0	0	0	0	0	0
4/19/2024 9:09	46206	DANV_T2	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 9:11	40101	HUNT_T2	0	0	0	0	0	0	-0.42	-0.47	0	0	0	0	0	0
4/19/2024 9:12	10805	OHHI_T2	1	1	0	7.9	8.5	0.6	-0.52	-0.44	1	1	0	600	600	0
4/19/2024 9:16	62607	ENGL_T1	0	0	0	0	0	0	-1.2	-1.21	1	1	0	300	300	0
4/19/2024 9:26	61102	BERK_T5	0	0	0	0	0	0	0.53	0.38	1	1	0	300	300	0
4/19/2024 9:29	14203	EALL_T1	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
4/19/2024 9:34	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 9:36	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 9:37	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 9:38	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 9:38	40502	CRES_T2	4	11	7	0.13	0.2	0.07	-0.09	-0.04	0	0	0	0	0	0
4/19/2024 9:41	60801	BUCK_T1	0	0	0	0	0	0	-0.64	-0.59	1	1	0	600	600	0
4/19/2024 9:41	60803	BUCK_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/19/2024 9:42	60803	BUCK_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/19/2024 9:42	60801	BUCK_T1	0	0	0	0	0	0	-0.64	-0.59	1	1	0	600	600	0
4/19/2024 9:47	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 9:47	60801	BUCK_T1	0	0	0	0	0	0	-0.64	-0.59	1	1	0	600	600	0
4/19/2024 9:52	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 9:52	67605	WARW_T1	30	19	-11	0.48	0.49	0.01	-0.93	-0.93	0	0	0	0	0	0
4/19/2024 9:52	60801	BUCK_T1	0	0	0	0	0	0	-0.64	-0.59	1	1	0	600	600	0
4/19/2024 9:53	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 9:54	43301	WATS_T2	0	0	0	0	0	0	-0.79	-0.76	1	1	0	900	900	0
4/19/2024 9:54	67605	WARW_T1	30	19	-11	0.48	0.49	0.01	-0.93	-0.89	0	0	0	0	0	0
4/19/2024 9:54	43302	WATS_T2	4	4	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/19/2024 9:57	60801	BUCK_T1	0	0	0	0	0	0	-0.59	-0.58	1	1	0	600	600	0
4/19/2024 9:57	67605	WARW_T1	30	19	-11	0.48	0.49	0.01	-0.93	-0.89	0	0	0	0	0	0
4/19/2024 9:57	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 9:58	63401	HONY_T1	0	0	0	0	0	0	0.46	0.43	0	0	0	0	0	0
4/19/2024 10:00	40505	CRES_T1	3	3	0	4.3	4.77	0.47	0.41	0.42	0	0	0	0	0	0
4/19/2024 10:00	40701	FFLD_T1	33	33	0	0.46	0.36	-0.1	0	0	0	0	0	0	0	0
4/19/2024 10:00	53903	HALI_T2	2	2	0	0.75	1.4	0.65	-0.19	-0.2	0	0	0	0	0	0
4/19/2024 10:00	65001	NEFF_T2	67	13	-54	0.11	0.12	0.01	-0.67	-0.71	1	1	0	1200	1200	0
4/19/2024 10:00	56601	HAMP_T1	0	0	0	0	0	0	-1.9	-1.94	0	0	0	0	0	0
4/19/2024 10:00	50505	MECH_T1	0	0	0	0	0	0	-0.85	-0.92	0	0	0	0	0	0
4/19/2024 10:00	66303	MCGO_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/19/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-0.76	-0.73	1	1	0	600	600	0
4/19/2024 10:00	63806	GREE_T1	0	0	0	0	0	0	-1.5	-1.53	1	1	0	900	900	0
4/19/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	0.19	0.2	2	2	0	1800	1800	0
4/19/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/19/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
4/19/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	-0.08	0.11	0	0	0	0	0	0
4/19/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 10:00	64904	MILL_T1	0	0	0	0	0	0	0.37	0.42	0	0	0	0	0	0
4/19/2024 10:00	64801	MONE_T2	1	1	0	0.6	0.6	0	0.26	0.26	0	0	0	0	0	0
4/19/2024 10:00	63803	HEMP_T1	2	3	1	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
4/19/2024 10:00	40703	FFLD_T1	4	4	0	0.2	0.2	0	0.27	0.26	0	0	0	0	0	0
4/19/2024 10:00	22102	EDEL_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/19/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
4/19/2024 10:00	50501	MECH_T1	4	4	0	0.28	1.1	0.82	0	0	0	0	0	0	0	0
4/19/2024 10:00	29402	BELT_T1	1	1	0	7.2	7.8	0.6	0	0	0	0	0	0	0	0
4/19/2024 10:00	16101	BING_T2	1	1	0	10	10	0	0.33	0.31	0	0	0	0	0	0
4/19/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
4/19/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
4/19/2024 10:00	57106	SPHI_T2	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
4/19/2024 10:00	45502	DERR_T2	2	1	-1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
4/19/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
4/19/2024 10:00	58003	WCAR_T1	1	1	0	0.3	0.2	-0.1	0	0	1	1	0	600	600	0
4/19/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	-1.19	-1.16	2	2	0	1200	1200	0
4/19/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	1.73	1.74	0	0	0	0	0	0
4/19/2024 10:00	54602	SUMM_T2	0	0	0	0	0	0	-2.49	-2.5	1	1	0	600	600	0
4/19/2024 10:00	12505	MITR_T2	0	0	0	0	0	0	0.99	1.11	0	0	0	0	0	0
4/19/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
4/19/2024 10:00	53501	EVIL_T2	0	2	2	0	0.9	0.9	-0.12	-0.28	3	3	0	1800	1800	0
4/19/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-2.18	-2.21	0	0	0	0	0	0
4/19/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	-0.43	-0.4	1	1	0	600	600	0
4/19/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.24	-0.17	0	0	0	0	0	0
4/19/2024 10:00	10805	CHHI_T2	7	1	-6	1.7	8.4	6.7	-0.56	-0.52	1	1	0	600	600	0
4/19/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	0.13	-0.12	1	1	0	600	600	0
4/19/2024 10:00	12502	MITR_T2	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
4/19/2024 10:00	67605	WARW_T1	19	28	9	0.47	0.47	0	0	0	0	0	0	0	0	0
4/19/2024 10:00	43102	SMIL_T2	3	5	2	0.13	0.18	0.05	0	0	0	0	0	0	0	0
4/19/2024 10:00	52006	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.62	-0.68	1	1	0	1200	1200	0
4/19/2024 10:00	60501	NMAN_T2	17	3	-14	1.04	5.3	4.26	0	0	0	0	0	0	0	0
4/19/2024 10:00	25603	ARRO_T1	1	0	-1	9.5	0	-9.5	-0.17	-0.16	0	0	0	0	0	0
4/19/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.61	0.74	0	0	0	0	0	0
4/19/2024 10:00	42001	MNVL_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
4/19/2024 10:00	42002	MNVL_T2	1	1	0	3.2	3.1	-0.1	0	0	0	0	0	0	0	0
4/19/2024 10:00	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/19/2024 10:00	53901	HALI_T2	1	1	0	0.4	0.7	0.3	-1.14	-1.13	0	0	0	0	0	0
4/19/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
4/19/2024 10:00	54001	SDLE_T1	5	4	-1	0.42	0.43	0.01	0	0	1	1	0	600	600	0
4/19/2024 10:00	57101	SPHI_T2	6	6	0	1.03	0.83	-0.2	0	0	0	0	0	0	0	0
4/19/2024 10:00	63801	HEMP_T1	0	0	0	0	0	0	0.57	0.43	0	0	0	0	0	0
4/19/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	-1.34	-1.33	2	2	0	1200	1200	0
4/19/2024 10:00	62605	ENGL_T1	1	0	-1	0.3	0	-0.3	-0.87	-0.86	0	0	0	0	0	0
4/19/2024 10:00	64802	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 10:00	40702	FFLD_T1	3	4	1	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
4/19/2024 10:00	65702	RVIL_T2	7	2	-5	0.3	0.2	-0.1	-1.06	-1.09	1	1	0	600	600	0
4/19/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 10:00	57104	SPHI_T2	2	1	-1	2.8	0	-2.8	-1.16	-1.18	1	1	0	900	900	0
4/19/2024 10:00	45602	WOOL_T1	2	3	1	0.1	0.67	0.57	0.36	0.37	0	0	0	0	0	0
4/19/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
4/19/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.57	-0.47	4	4	0	3000	3000	0
4/19/2024 10:00	65005	NEFF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/19/2024 10:00	10801	CHHI_T1	0	0	0	0	0	0	-1.67	-1.64	2	2	0	1800	1800	0
4/19/2024 10:00	52002	LING_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/19/2024 10:00	67002	STHI_T2	0	1	1	0	0.1	0.1	0.59	0.61	0	0	0	0	0	0
4/19/2024 10:00	58102	NEKI_T1	1	1	0	1.5	1.2	-0.3	-1.18	-1.18	1	1	0	1200	1200	0
4/19/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
4/19/2024 10:00	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
4/19/2024 10:00	65003	NEFF_T2	7	7	0	0.39	0.27	-0.12	0	0	0	0	0	0	0	0
4/19/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.38	-0.43	1	1	0	600	600	0
4/19/2024 10:00	43103	SMIL_T2	8	15	7	0.28	0.32	0.04	0	0	0	0	0	0	0	0
4/19/2024 10:00	63804	HEMP_T1	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0	0
4/19/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.39	1.33	0	0	0	0	0	0
4/19/2024 10:00	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/19/2024 10:00	53902	HALI_T2	1	1	0	5.1	5.8	0.7	0	0	0	0	0	0	0	0
4/19/2024 10:00	42903	MIDD_T2	0	2	2	0	0.3	0.3	0.85	0.8	0	0	0	0	0	0
4/19/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-1.35	-1.48	2	2	0	2100	2100	0
4/19/2024 10:00	43104	SMIL_T2	0	0	0	0	0	0	-0.8	-0.82	1	1	0	300	300	0
4/19/2024 10:00	52004	LING_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
4/19/2024 10:00	54601	SUMM_T2	12	7	-5	0.36	0.24	-0.12	0	0	0	0	0	0	0	0
4/19/2024 10:00	67703	WERN_T2	0	0	0	0	0	0	-0.31	-0.35	1	1	0	900	900	0
4/19/2024 10:00	14603	SWHI_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/19/2024 10:00	50502	MECH_T1	1	1	0	1.5	2.4	0.9	0	0	0	0	0	0	0	0
4/19/2024 10:02	64801	MONE_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/19/2024 10:02	64802	MONE_T2	0	1	1	0	0.1	0.1	0.01	0.02	0	0	0	0	0	0
4/19/2024 10:03	52503	PROG_T2	0	0	0	0	0	0	-1.38	-1.27	2	2	0	1800	1800	0
4/19/2024 10:06	67402	WAKE_T2	0	0	0	0	0	0	-0.43	-0.4	1	1	0	600	600	0
4/19/2024 10:06	45702	LIND_T2	0	1	1	0	0.5	0.5	-0.51	-0.51	0	0	0	0	0	0
4/19/2024 10:07	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 10:07	22405	MORG_T2	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
4/19/2024 10:07	24102	EHAZ_T1	3	1	-2	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/19/2024 10:07	24105	EHAZ_T1	4	4	0	6.7	6.68	-0.02	-0.73	-0.72	1	1	0	1200	1200	0
4/19/2024 10:07	26001	WDAM_T1	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0
4/19/2024 10:07	58803	COCO_T1	1	1	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
4/19/2024 10:07	15103	UPHA_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
4/19/2024 10:07	48302	ORWI_T2	2	2	0	1.1	1.15	0.05	0	0.04	0	0	0	0	0	0
4/19/2024 10:07	45602	WOOL_T1	2	3	1	0.1	0.67	0.57	0.36	0.37	0	0	0	0	0	0
4/19/2024 10:08	60801	BUCK_T1	0	0	0	0	0	0	-0.58	-0.55	1	1	0	600	600	0
4/19/2024 10:08	64302	LINC_T2	0	0	0	0	0	0	1.13	1.12	0	0	0	0	0	0
4/19/2024 10:08	44505	HAMI_T2	0	1	1	0	0	0	0.57	0.55	0	0	0	0	0	0
4/19/2024 10:08	51002	NHAR_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/19/2024 10:08	12807	MICK_T1	1	1	0	0.5	0.7	0.2	0.18	0.2	0	0	0	0	0	0
4/19/2024 10:08	29402	BELT_T1	1	1	0	7.2	7.8	0.6	0	0	0	0	0	0	0	0
4/19/2024 10:08	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/19/2024 10:08	45902	AUBU_T1	0	0	0	0	0	0	-0.66	-0.68	1	1	0	600	600	0
4/19/2024 10:08	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 10:08	46004	BERW_T2	0	0	0	0	0	0	-0.76	-0.77	0	0	0	0	0	0
4/19/2024 10:08	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/19/2024 10:08	16102	BING_T2	0	0	0	0	0	0	0.04	-0.01	0	0	0	0	0	0
4/19/2024 10:08	44502	HAMI_T2	1	0	-1	2.7	0	-2.7	0	0	0	0	0	0	0	0
4/19/2024 10:08	59102	WALK_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
4/19/2024 10:08	16101	BING_T2	1	1	0	10	10	0	0	0	0	0	0	0	0	0
4/19/2024 10:08	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/19/2024 10:08	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 10:08	40101	HUNT_T2	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
4/19/2024 10:08	51004	NHAR_T1	11	13	2	0.85	1	0.15	0	0	0	0	0	0	0	0
4/19/2024 10:08	42302	MOWR_T2	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
4/19/2024 10:08	62102	ELAN_T1	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
4/19/2024 10:08	40902	JESH_T1	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
4/19/2024 10:09	14603	SWHI_T1	1	3	2	0.1	0.3	0.2	-1.07	-1.09	1	1	0	600	600	0
4/19/2024 10:10	67501	WEWI_T1	2	5	3	0.55	0.4	-0.15	-1.22	-1.25	1	1	0	600	600	0
4/19/2024 10:10	67505	WEWI_T1	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
4/19/2024 10:11	45902	AUBU_T1	0	0	0	0	0	0	-0.66	-0.68	1	1	0	600	600	0
4/19/2024 10:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/19/2024 10:11	60802	BUCK_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
4/19/2024 10:11	29402	BELT_T1	1	1	0	7.2	7.8	0.6	0	0	0	0	0	0	0	0
4/19/2024 10:16	25503	MADI_T1	0	25	25	0	0.13	0.13	-1	-0.99	0	0	0	0	0	0
4/19/2024 10:17	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 10:17	54203	PENN_T1	18	18	0	0.81	0.9	0.09	0.03	0.02	0	0	0	0	0	0
4/19/2024 10:17	54201	PENN_T1	6	4	-2	0.78	1.13	0.35	0	0	0	0	0	0	0	0
4/19/2024 10:18	54203	PENN_T1	18	18	0	0.81	0.9	0.09	0.03	0.02	0	0	0	0	0	0
4/19/2024 10:18	54201	PENN_T1	6	4	-2	0.78	1.13	0.35	0	0	0	0	0	0	0	0
4/19/2024 10:18	64904	MILL_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
4/19/2024 10:19	54201	PENN_T1	6	4	-2	0.78	1.13	0.35	0	0	0	0	0	0	0	0
4/19/2024 10:19	54203	PENN_T1	18	18	0	0.81	0.9	0.09	0.03	0.02	0	0	0	0	0	0
4/19/2024 10:19	23001	SAJO_T1	0	0	0	0	0	0	-1.06	-1.1	0	0	0	0	0	0
4/19/2024 10:19	54202	PENN_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
4/19/2024 10:19	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 10:19	13503	MCMI_T2	0	0	0	0	0	0	-0.95	-0.01	0	0	0	0	0	0
4/19/2024 10:20	40302	TAMA_T3	33	37	4	0.52	0.51	-0.01	0.33	0.31	0	0	0	0	0	0
4/19/2024 10:20	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 10:20	40303	TAMA_T3	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0	0
4/19/2024 10:21	65902	SAKR_T2	0	1	1	0	2.8	2.8	0	0	0	0	0	0	0	0
4/19/2024 10:21	65904	SAKR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 10:21	54201	PENN_T1	6	4	-2	0.78	1.13	0.35	0	0	0	0	0	0	0	0
4/19/2024 10:21	54203	PENN_T1	18	18	0	0.81	0.9	0.09	0.03	0.02	0	0	0	0	0	0
4/19/2024 10:21	65901	SAKR_T2	1	1	0	9.3	9.1	-0.2	-1.27	-1.37	1	1	0	900	900	0
4/19/2024 10:21	67001	STHI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 10:21	67002	STHI_T2	1	7	6	0.1	0.3	0.2	0.61	0.6	0	0	0	0	0	0
4/19/2024 10:22	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 10:22	67605	WARW_T1	17	34	17	0.42	0.5	0.08	-0.89	-0.92	0	0	0	0	0	0
4/19/2024 10:22	60801	BUCK_T1	0	0	0	0	0	0	-0.58	-0.55	1	1	0	600	600	0
4/19/2024 10:23	67002	STHI_T2	1	7	6	0.1	0.3	0.2	0.6	0.63	0	0	0	0	0	0
4/19/2024 10:23	67001	STHI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 10:24	40505	CRES_T1	3	3	0	4.67	4.77	0.1	0	0	0	0	0	0	0	0
4/19/2024 10:24	10805	CHHI_T2	1	2	1	8.8	8.4	-0.4	-0.4	-0.48	1	1	0	600	600	0
4/19/2024 10:24	40504	CRES_T1	0	0	0	0	0	0	-0.41	-0.32	0	0	0	0	0	0
4/19/2024 10:25	67001	STHI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 10:25	60404	DILL_T2	0	0	0	0	0	0	1.24	1.27	0	0	0	0	0	0
4/19/2024 10:25	45501	DERR_T2	0	0	0	0	0	0	0.19	0.26	2	2	0	1800	1800	0
4/19/2024 10:25	10801	CHHI_T1	0	2	2	0	0.2	0.2	-0.89	-0.91	1	1	0	900	900	0
4/19/2024 10:25	45502	DERR_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/19/2024 10:25	67002	STHI_T2	1	7	6	0.1	0.3	0.2	1.19	1.25	0	0	0	0	0	0
4/19/2024 10:26	61505	EPET_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
4/19/2024 10:26	40505	CRES_T1	3	3	0	4.67	4.77	0.1	0	0	0	0	0	0	0	0
4/19/2024 10:26	40504	CRES_T1	0	0	0	0	0	0	-0.41	-0.32	0	0	0	0	0	0
4/19/2024 10:26	10805	CHHI_T2	1	2	1	8.8	8.4	-0.4	-0.4	-0.48	1	1	0	600	600	0
4/19/2024 10:26	67002	STHI_T2	1	7	6	0.1	0.3	0.2	0.6	0.63	0	0	0	0	0	0
4/19/2024 10:26	67001	STHI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 10:26	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 10:27	61505	EPET_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
4/19/2024 10:30	63401	HONY_T1	0	0	0	0	0	0	0.51	0.63	0	0	0	0	0	0
4/19/2024 10:34	14404	SSLA_T1	1	1	0	5.4	5.7	0.3	-0.02	-0.02	0	0	0	0	0	0
4/19/2024 10:34	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 10:35	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 10:36	66505	SMAN_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
4/19/2024 10:36	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/19/2024 10:36	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 10:36	66504	SMAN_T2	0	3	3	0	0.27	0.27	-0.42	-0.49	0	0	0	0	0	0
4/19/2024 10:36	66502	SMAN_T2	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
4/19/2024 10:36	67605	WARW_T1	28	34	6	0.46	0.57	0.11	-0.92	-0.92	0	0	0	0	0	0
4/19/2024 10:36	29402	BELT_T1	1	1	0	7.8	7.9	0.1	0	0	0	0	0	0	0	0
4/19/2024 10:36	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/19/2024 10:37	66502	SMAN_T2	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
4/19/2024 10:37	17002	RIRO_T2	1	2	1	0.1	0.45	0.35	0.67	0.59	0	0	0	0	0	0
4/19/2024 10:37	66504	SMAN_T2	0	3	3	0	0.27	0.27	-0.85	-0.98	0	0	0	0	0	0
4/19/2024 10:37	14404	SSLA_T1	1	1	0	5.4	5.7	0.3	-0.02	-0.02	0	0	0	0	0	0
4/19/2024 10:37	67702	WERN_T2	0	1	1	0	0.4	0.4	-0.08	-0.09	0	0	0	0	0	0
4/19/2024 10:37	66503	SMAN_T2	0	0	0	0	0	0	0.32	0.35	0	0	0	0	0	0
4/19/2024 10:37	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/19/2024 10:37	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 10:37	66505	SMAN_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
4/19/2024 10:37	66701	STRA_T1	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
4/19/2024 10:37	66703	STRA_T1	0	0	0	0	0	0	-0.11	-0.22	0	0	0	0	0	0
4/19/2024 10:37	16301	ALPA_T1	2	5	3	0.25	0.24	-0.01	-0.44	-0.41	0	0	0	0	0	0
4/19/2024 10:38	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 10:38	43801	SWIL_T1	7	4	-3	0.86	1.4	0.54	0	0	0	0	0	0	0	0
4/19/2024 10:38	43802	SWIL_T1	0	0	0	0	0	0	-0.29	-0.29	1	1	0	600	600	0
4/19/2024 10:39	43801	SWIL_T1	7	4	-3	0.86	1.4	0.54	0	0	0	0	0	0	0	0
4/19/2024 10:39	43802	SWIL_T1	0	0	0	0	0	0	-0.29	-0.28	1	1	0	600	600	0
4/19/2024 10:39	16301	ALPA_T1	2	5	3	0.25	0.24	-0.01	-0.41	-0.41	0	0	0	0	0	0
4/19/2024 10:40	67605	WARW_T1	28	34	6	0.46	0.57	0.11	-0.92	-0.91	0	0	0	0	0	0
4/19/2024 10:40	43802	SWIL_T1	0	0	0	0	0	0	-0.29	-0.28	1	1	0	600	600	0
4/19/2024 10:40	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/19/2024 10:40	43801	SWIL_T1	7	4	-3	0.86	1.4	0.54	0	0	0	0	0	0	0	0
4/19/2024 10:41	60902	DONG_T2	0	0	0	0	0	0	0.58	0.7	0	0	0	0	0	0
4/19/2024 10:41	45901	AUBU_T1	0	0	0	0	0	0	1.83	1.86	0	0	0	0	0	0
4/19/2024 10:41	60901	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 10:45	50506	MECH_T1	0	0	0	0	0	0	-0.01	-0.08	1	1	0	900	900	0
4/19/2024 10:45	50501	MECH_T1	4	4	0	1.15	0.8	-0.35	0	0	0	0	0	0	0	0
4/19/2024 10:45	50502	MECH_T1	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
4/19/2024 10:46	51204	MTON_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	600	600	0
4/19/2024 10:46	64702	LITI_T2	0	0	0	0	0	0	-0.78	-0.7	0	0	0	0	0	0
4/19/2024 10:47	64702	LITI_T2	0	0	0	0	0	0	-1.56	-1.4	0	0	0	0	0	0
4/19/2024 10:47	51204	MTON_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	600	600	0
4/19/2024 10:48	45702	LIND_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/19/2024 10:48	50501	MECH_T1	4	4	0	1.15	0.8	-0.35	0	0	0	0	0	0	0	0
4/19/2024 10:48	50502	MECH_T1	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
4/19/2024 10:48	54205	PENN_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 10:48	45701	LIND_T2	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
4/19/2024 10:48	54203	PENN_T1	18	19	1	0.9	1.41	0.51	0	0	0	0	0	0	0	0
4/19/2024 10:48	50506	MECH_T1	0	0	0	0	0	0	-0.01	-0.08	1	1	0	900	900	0
4/19/2024 10:48	54201	PENN_T1	4	16	12	1.13	0.59	-0.54	0.09	0.18	0	0	0	0	0	0
4/19/2024 10:50	66501	SMAN_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
4/19/2024 10:50	66505	SMAN_T2	2	3	1	0.15	0.43	0.28	0	0	0	0	0	0	0	0
4/19/2024 10:50	66504	SMAN_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
4/19/2024 10:50	66502	SMAN_T2	0	7	7	0	0.21	0.21	0.28	0.26	0	0	0	0	0	0
4/19/2024 10:51	67702	WERN_T2	1	1	0	0.4	0.3	-0.1	-0.09	-0.1	0	0	0	0	0	0
4/19/2024 10:51	66501	SMAN_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
4/19/2024 10:51	66504	SMAN_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
4/19/2024 10:51	66505	SMAN_T2	2	3	1	0.15	0.43	0.28	0	0	0	0	0	0	0	0
4/19/2024 10:51	66502	SMAN_T2	0	7	7	0	0.21	0.21	0.28	0.26	0	0	0	0	0	0
4/19/2024 10:52	66501	SMAN_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
4/19/2024 10:52	43302	WATS_T2	4	2	-2	0.48	0.1	-0.38	0	0	0	0	0	0	0	0
4/19/2024 10:52	43301	WATS_T2	0	0	0	0	0	0	-0.8	-0.77	1	1	0	900	900	0
4/19/2024 10:52	66502	SMAN_T2	0	7	7	0	0.21	0.21	0.28	0.26	0	0	0	0	0	0
4/19/2024 10:52	66504	SMAN_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
4/19/2024 10:52	66505	SMAN_T2	2	3	1	0.15	0.43	0.28	0	0	0	0	0	0	0	0
4/19/2024 10:53	66504	SMAN_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
4/19/2024 10:53	66505	SMAN_T2	2	3	1	0.15	0.43	0.28	0	0	0	0	0	0	0	0
4/19/2024 10:53	66501	SMAN_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
4/19/2024 10:53	66502	SMAN_T2	0	7	7	0	0.21	0.21	0.52	0.34	0	0	0	0	0	0
4/19/2024 10:54	66505	SMAN_T2	2	3	1	0.15	0.43	0.28	0	0	0	0	0	0	0	0
4/19/2024 10:54	66501	SMAN_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
4/19/2024 10:54	66502	SMAN_T2	0	7	7	0	0.21	0.21	0.26	0.17	0	0	0	0	0	0
4/19/2024 10:54	66504	SMAN_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
4/19/2024 10:56	67702	WERN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/19/2024 10:56	67703	WERN_T2	0	0	0	0	0	0	-0.7	-0.64	2	2	0	1800	1800	0
4/19/2024 10:57	53601	DALM_T2	1	1	0	0.7	1.3	0.6	0.27	-0.34	0	1	1	0	900	900
4/19/2024 10:57	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 10:57	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 10:57	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/19/2024 10:57	46801	HEPB_T2	2	2	0	0.6	0.6	0	0.59	0.6	0	0	0	0	0	0
4/19/2024 11:00	42903	MIDD_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/19/2024 11:00	60801	BUCK_T1	0	0	0	0	0	0	-0.5	-0.53	1	1	0	600	600	0
4/19/2024 11:00	42902	MIDD_T2	1	0	-1	0.3	0	-0.3	-0.57	-0.58	1	1	0	600	600	0
4/19/2024 11:01	42903	MIDD_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/19/2024 11:01	46801	HEPB_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/19/2024 11:01	46803	HEPB_T2	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
4/19/2024 11:01	42902	MIDD_T2	1	0	-1	0.3	0	-0.3	-0.57	-0.58	1	1	0	600	600	0
4/19/2024 11:02	65503	MOJO_T2	0	2	2	0	0.1	0.1	-0.37	-0.33	0	0	0	0	0	0
4/19/2024 11:02	50105	HARR_T3	6	6	0	5.75	5.75	0	0	0	0	0	0	0	0	0
4/19/2024 11:02	50103	HARR_T3	2	2	0	0.55	0.9	0.35	-1.05	-1.05	1	1	0	1200	1200	0
4/19/2024 11:02	10801	CHHI_T1	2	6	4	0.25	0.77	0.52	-0.9	-0.86	1	1	0	900	900	0
4/19/2024 11:03	42903	MIDD_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/19/2024 11:03	42902	MIDD_T2	1	0	-1	0.3	0	-0.3	-1.14	-1.16	2	2	0	1200	1200	0
4/19/2024 11:06	64101	REFR_T1	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
4/19/2024 11:08	67201	TEHI_T1	0	0	0	0	0	0	0.57	0.45	1	2	1	600	1500	900
4/19/2024 11:08	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/19/2024 11:08	67203	TEHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/19/2024 11:08	15001	BLMO_T1	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
4/19/2024 11:08	29402	BELT_T1	1	1	0	7.7	8.2	0.5	0	0	0	0	0	0	0	0
4/19/2024 11:09	51102	CARL_T1	41	53	12	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
4/19/2024 11:09	51104	CARL_T1	1	0	-1	2.6	0	-2.6	0	0	0	0	0	0	0	0
4/19/2024 11:09	51108	CARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/19/2024 11:09	51107	CARL_T1	0	0	0	0	0	0	0.28	0	0	0	0	0	0	0
4/19/2024 11:10	26001	WDAM_T1	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
4/19/2024 11:10	26002	WDAM_T1	0	2	2	0	1.15	1.15	0	0	0	0	0	0	0	0
4/19/2024 11:10	15001	BLMO_T1	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
4/19/2024 11:11	60801	BUCK_T1	0	0	0	0	0	0	-0.53	-0.59	1	1	0	600	600	0
4/19/2024 11:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/19/2024 11:11	29402	BELT_T1	1	1	0	7.7	8.2	0.5	0	0	0	0	0	0	0	0
4/19/2024 11:11	15001	BLMO_T1	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
4/19/2024 11:12	14203	EALL_T1	0	2	2	0	0.1	0.1	1.09	1	0	0	0	0	0	0
4/19/2024 11:12	64101	REFR_T1	0	0	0	0	0	0	-0.84	-0.82	0	0	0	0	0	0
4/19/2024 11:13	66502	SMAN_T2	6	7	1	0.15	0.2	0.05	0.17	0.68	0	0	0	0	0	0
4/19/2024 11:13	11402	FARM_T1	5	13	8	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
4/19/2024 11:13	11401	FARM_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
4/19/2024 11:13	66505	SMAN_T2	3	3	0	0.43	0.13	-0.3	0	0	0	0	0	0	0	0
4/19/2024 11:13	66501	SMAN_T2	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
4/19/2024 11:13	66504	SMAN_T2	3	2	-1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
4/19/2024 11:13	11405	FARM_T1	4	62	58	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/19/2024 11:13	11404	FARM_T1	1	3	2	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
4/19/2024 11:16	60801	BUCK_T1	0	0	0	0	0	0	-0.53	-0.59	1	1	0	600	600	0
4/19/2024 11:18	60501	NMAN_T2	3	3	0	4.8	5.17	0.37	0	0	0	0	0	0	0	0
4/19/2024 11:18	60502	NMAN_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
4/19/2024 11:19	12801	MICK_T1	0	0	0	0	0	0	-0.1	-0.11	1	1	0	600	600	0
4/19/2024 11:19	12807	MICK_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/19/2024 11:20	66902	SHIL_T2	2	5	3	0.4	0.3	-0.1	-1.79	-1.81	0	0	0	0	0	0
4/19/2024 11:20	66903	SHIL_T2	1	0	-1	7.4	0	-7.4	-0.97	-1.02	0	0	0	0	0	0
4/19/2024 11:20	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 11:21	66903	SHIL_T2	1	0	-1	7.4	0	-7.4	-0.97	-1.02	0	0	0	0	0	0
4/19/2024 11:21	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 11:21	66902	SHIL_T2	2	5	3	0.4	0.3	-0.1	-1.79	-1.81	0	0	0	0	0	0
4/19/2024 11:21	67602	WARW_T2	0	0	0	0	0	0	1.48	1.46	1	1	0	300	300	0
4/19/2024 11:22	66902	SHIL_T2	2	5	3	0.4	0.3	-0.1	-1.79	-1.81	0	0	0	0	0	0
4/19/2024 11:22	13901	SEID_T1	0	0	0	0	0	0	0.45	0.4	0	0	0	0	0	0
4/19/2024 11:22	66903	SHIL_T2	1	0	-1	7.4	0	-7.4	0	0	0	0	0	0	0	0
4/19/2024 11:22	13905	SEID_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 11:24	14602	SWHI_T1	2	3	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/19/2024 11:24	67605	WARW_T1	22	41	19	0.52	0.74	0.22	0	0	0	0	0	0	0	0
4/19/2024 11:24	67604	WARW_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
4/19/2024 11:24	14601	SWHI_T1	5	7	2	0.44	0.53	0.09	-0.99	-1	0	0	0	0	0	0
4/19/2024 11:24	45902	AUBU_T1	0	1	1	0	0.6	0.6	-1.45	-1.48	2	2	0	1200	1200	0
4/19/2024 11:24	14603	SWHI_T1	6	9	3	0.68	0.69	0.01	0	0	0	0	0	0	0	0
4/19/2024 11:25	14603	SWHI_T1	6	9	3	0.68	0.69	0.01	0	0	0	0	0	0	0	0
4/19/2024 11:25	14601	SWHI_T1	5	7	2	0.44	0.53	0.09	-0.99	-1	0	0	0	0	0	0
4/19/2024 11:25	14602	SWHI_T1	2	3	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/19/2024 11:25	11205	ELHE_T1	0	0	0	0	0	0	-0.87	-0.76	1	1	0	1200	1200	0
4/19/2024 11:26	67602	WARW_T2	0	0	0	0	0	0	1.46	1.46	1	1	0	300	300	0
4/19/2024 11:27	60801	BUCK_T1	0	0	0	0	0	0	-0.59	-0.63	1	1	0	600	600	0
4/19/2024 11:27	67605	WARW_T1	22	41	19	0.52	0.74	0.22	-0.89	-1.12	0	0	0	0	0	0
4/19/2024 11:27	15001	BLMO_T1	2	3	1	0.1	0.27	0.17	0	0	0	0	0	0	0	0
4/19/2024 11:28	41301	FISH_T1	2	2	0	1.75	2	0.25	-0.08	-0.06	0	0	0	0	0	0
4/19/2024 11:29	46102	MACI_T1	101	145	44	0.18	0.21	0.03	0.39	0.3	0	0	0	0	0	0
4/19/2024 11:29	45902	AUBU_T1	0	1	1	0	0.6	0.6	-0.73	-0.74	1	1	0	600	600	0
4/19/2024 11:32	60801	BUCK_T1	0	0	0	0	0	0	-0.59	-0.63	1	1	0	600	600	0
4/19/2024 11:32	67605	WARW_T1	35	48	13	0.58	0.79	0.21	-0.89	-1.12	0	0	0	0	0	0
4/19/2024 11:32	43202	MVIL_T2	86	98	12	0.67	0.62	-0.05	-0.67	-0.68	0	0	0	0	0	0
4/19/2024 11:32	45702	LIND_T2	14	1	-13	0.26	1.9	1.64	-0.6	-0.59	0	0	0	0	0	0
4/19/2024 11:32	65503	MOJO_T2	0	0	0	0	0	0	-0.31	-0.42	0	0	0	0	0	0
4/19/2024 11:33	12502	MITR_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
4/19/2024 11:33	12505	MITR_T2	1	1	0	0.5	0.2	-0.3	1	0.85	0	0	0	0	0	0
4/19/2024 11:34	46301	ROHR_T1	130	177	47	0.25	0.27	0.02	0.2	0.19	0	0	0	0	0	0
4/19/2024 11:34	46302	ROHR_T1	5	8	3	1.98	1.13	-0.85	0	0	0	0	0	0	0	0
4/19/2024 11:36	15103	UPHA_T2	1	2	1	0.1	0.15	0.05	0.37	0.33	0	0	0	0	0	0
4/19/2024 11:37	60801	BUCK_T1	0	0	0	0	0	0	-0.59	-0.63	1	1	0	600	600	0
4/19/2024 11:38	46302	ROHR_T1	5	8	3	1.98	1.13	-0.85	0	0	0	0	0	0	0	0
4/19/2024 11:38	46301	ROHR_T1	130	177	47	0.25	0.27	0.02	0.2	0.19	0	0	0	0	0	0
4/19/2024 11:38	13704	SCHN_T2	1	1	0	0.2	0.3	0.1	-0.41	-0.4	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/19/2024 11:38	45902	AUBU_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/19/2024 11:38	45901	AUBU_T1	0	0	0	0	0	0	1.71	1.75	0	0	0	0	0	0
4/19/2024 11:39	66504	SMAN_T2	2	0	-2	0.25	0	-0.25	-0.92	-1.04	0	0	0	0	0	0
4/19/2024 11:39	66502	SMAN_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
4/19/2024 11:39	66505	SMAN_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/19/2024 11:39	45902	AUBU_T1	1	1	0	0.4	0.6	0.2	-0.74	-0.68	1	1	0	600	600	0
4/19/2024 11:39	24902	WHHA_T1	2	2	0	0.85	0.65	-0.2	0	0	0	0	0	0	0	0
4/19/2024 11:39	66501	SMAN_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
4/19/2024 11:40	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
4/19/2024 11:41	11805	FRAN_T1	1	1	0	0.1	0.2	0.1	-1.19	-1.22	1	1	0	1200	1200	0
4/19/2024 11:41	11804	FRAN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/19/2024 11:42	60801	BUCK_T1	0	0	0	0	0	0	-0.63	-0.64	1	1	0	600	600	0
4/19/2024 11:42	67605	WARW_T1	35	48	13	0.58	0.79	0.21	-1.12	-1.11	0	0	0	0	0	0
4/19/2024 11:44	45902	AUBU_T1	1	1	0	0.4	0.6	0.2	-0.74	-0.68	1	1	0	600	600	0
4/19/2024 11:45	65502	MOJO_T2	0	0	0	0	0	0	-0.51	-0.43	0	0	0	0	0	0
4/19/2024 11:46	21901	HUMB_T1	0	0	0	0	0	0	-2.24	-2.25	0	0	0	0	0	0
4/19/2024 11:47	13501	MCMI_T1	0	1	1	0	0	0	0.05	0.05	0	0	0	0	0	0
4/19/2024 11:47	67605	WARW_T1	40	47	7	0.76	0.8	0.04	-1.12	-1.11	0	0	0	0	0	0
4/19/2024 11:50	66703	STRA_T1	0	0	0	0	0	0	-0.14	-0.19	0	0	0	0	0	0
4/19/2024 11:51	24602	VARD_T2	17	440	423	0.26	0.45	0.19	-0.22	-0.76	0	0	0	0	0	0
4/19/2024 11:51	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/19/2024 11:51	13501	MCMI_T1	0	1	1	0	0	0	0.05	0.05	0	0	0	0	0	0
4/19/2024 11:51	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 11:51	24603	VARD_T2	2	26	24	0.8	0.39	-0.41	0	0	0	0	0	0	0	0
4/19/2024 11:52	66901	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 11:52	20403	ASHF_T2	6	12	6	0.43	0.18	-0.25	1.14	0.95	0	0	0	0	0	0
4/19/2024 11:52	67002	STHI_T2	4	9	5	0.5	0.28	-0.22	0.67	0.65	0	0	0	0	0	0
4/19/2024 11:52	66902	SHIL_T2	3	5	2	0.2	0.22	0.02	-1.79	-1.81	0	0	0	0	0	0
4/19/2024 11:52	67001	STHI_T2	4	4	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/19/2024 11:53	67001	STHI_T2	4	4	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/19/2024 11:53	60801	BUCK_T1	0	3	3	0	0.13	0.13	-0.64	-0.88	1	1	0	600	600	0
4/19/2024 11:53	67002	STHI_T2	4	9	5	0.5	0.28	-0.22	0.65	0.62	0	0	0	0	0	0
4/19/2024 11:53	67703	WERN_T2	0	0	0	0	0	0	-0.33	-0.35	1	1	0	900	900	0
4/19/2024 11:53	67702	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/19/2024 11:54	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 11:54	43301	WATS_T2	0	0	0	0	0	0	-0.79	-0.79	1	1	0	900	900	0
4/19/2024 11:54	65205	PRIN_T1	1	2	1	1.5	1.6	0.1	0	0	0	0	0	0	0	0
4/19/2024 11:54	43302	WATS_T2	3	4	1	0.1	0.28	0.18	0	0	0	0	0	0	0	0
4/19/2024 11:55	20403	ASHF_T2	6	12	6	0.43	0.18	-0.25	0.95	0.99	0	0	0	0	0	0
4/19/2024 11:55	67605	WARW_T1	40	47	7	0.76	0.8	0.04	0	0	0	0	0	0	0	0
4/19/2024 11:55	67603	WARW_T1	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
4/19/2024 11:55	45902	AUBU_T1	1	1	0	0.6	0.1	-0.5	-0.68	-0.74	1	1	0	600	600	0
4/19/2024 11:56	67001	STHI_T2	4	4	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/19/2024 11:56	15001	BLMO_T1	3	4	1	0.1	0.33	0.23	0	0	0	0	0	0	0	0
4/19/2024 11:56	67703	WERN_T2	0	0	0	0	0	0	-0.33	-0.35	1	1	0	900	900	0
4/19/2024 11:56	67002	STHI_T2	4	9	5	0.5	0.28	-0.22	0.65	0.62	0	0	0	0	0	0
4/19/2024 11:56	67702	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/19/2024 11:57	45902	AUBU_T1	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
4/19/2024 11:57	67605	WARW_T1	40	47	7	0.76	0.8	0.04	-1.11	-1.16	0	0	0	0	0	0
4/19/2024 11:57	45901	AUBU_T1	0	0	0	0	0	0	1.75	1.84	0	0	0	0	0	0
4/19/2024 11:58	45901	AUBU_T1	0	0	0	0	0	0	1.75	1.84	0	0	0	0	0	0
4/19/2024 11:58	45902	AUBU_T1	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
4/19/2024 11:58	60801	BUCK_T1	0	3	3	0	0.13	0.13	-0.64	-0.88	1	1	0	600	600	0
4/19/2024 11:59	67603	WARW_T1	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
4/19/2024 11:59	67605	WARW_T1	40	47	7	0.76	0.8	0.04	0	0	0	0	0	0	0	0
4/19/2024 12:00	23404	HONE_T1	1	1	0	1.6	1.3	-0.3	0	0	0	0	0	0	0	0
4/19/2024 12:00	22601	KIMB_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 12:00	64702	LITI_T2	0	0	0	0	0	0	-0.64	-0.76	0	0	0	0	0	0
4/19/2024 12:00	23403	HONE_T1	0	0	0	0	0	0	-0.73	-0.75	0	0	0	0	0	0
4/19/2024 12:00	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.68	-0.74	1	1	0	600	600	0
4/19/2024 12:00	22602	KIMB_T1	1	1	0	0.2	0.3	0.1	0.31	0.33	0	0	0	0	0	0
4/19/2024 12:01	53903	HALI_T2	1	1	0	0.6	0.3	-0.3	-1.12	-1.11	0	0	0	0	0	0
4/19/2024 12:01	64902	MILL_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
4/19/2024 12:01	53903	HALI_T2	2	2	0	1.6	1.45	-0.15	0	0	0	0	0	0	0	0
4/19/2024 12:01	64702	LITI_T2	0	0	0	0	0	0	-1.28	-1.52	0	0	0	0	0	0
4/19/2024 12:01	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
4/19/2024 12:02	67605	WARW_T1	47	29	-18	0.8	0.6	-0.2	-1.11	-1.16	0	0	0	0	0	0
4/19/2024 12:03	64902	MILL_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
4/19/2024 12:03	41901	REED_T1	8	9	1	0.33	0.57	0.24	0	0	0	0	0	0	0	0
4/19/2024 12:03	41902	REED_T1	0	0	0	0	0	0	1.1	1.08	0	0	0	0	0	0
4/19/2024 12:04	42903	MIDD_T2	2	2	0	0.85	1.7	0.85	0	0	0	0	0	0	0	0
4/19/2024 12:04	42902	MIDD_T2	2	2	0	0.5	0.35	-0.15	-0.57	0.01	1	0	-1	600	0	-600
4/19/2024 12:05	14601	SWHI_T1	0	0	0	0	0	0	-0.96	-0.99	0	0	0	0	0	0
4/19/2024 12:05	14603	SWHI_T1	5	5	0	0.48	0.34	-0.14	0	0	0	0	0	0	0	0
4/19/2024 12:05	41901	REED_T1	8	9	1	0.33	0.57	0.24	0	0	0	0	0	0	0	0
4/19/2024 12:05	14602	SWHI_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/19/2024 12:05	41902	REED_T1	0	0	0	0	0	0	2.2	2.16	0	0	0	0	0	0
4/19/2024 12:07	66203	SISP_T2	0	0	0	0	0	0	-0.5	-0.51	1	1	0	1200	1200	0
4/19/2024 12:08	67702	WERN_T2	1	0	-1	0.4	0	-0.4	-0.11	-0.12	0	0	0	0	0	0
4/19/2024 12:08	14601	SWHI_T1	0	0	0	0	0	0	-0.96	-0.99	0	0	0	0	0	0
4/19/2024 12:08	14603	SWHI_T1	5	5	0	0.48	0.34	-0.14	0	0	0	0	0	0	0	0
4/19/2024 12:08	14602	SWHI_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/19/2024 12:09	14602	SWHI_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/19/2024 12:09	14603	SWHI_T1	5	5	0	0.48	0.34	-0.14	-1.03	-1.1	1	1	0	600	600	0
4/19/2024 12:10	47002	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 12:12	67605	WARW_T1	47	29	-18	0.8	0.6	-0.2	-1.16	-1.18	0	0	0	0	0	0
4/19/2024 12:17	67605	WARW_T1	29	20	-9	0.6	0.47	-0.13	-1.16	-1.18	0	0	0	0	0	0
4/19/2024 12:20	51201	MTON_T1	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
4/19/2024 12:23	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-0.8	-0.73	1	1	0	600	600	0
4/19/2024 12:27	59003	MIFF_T1	1	1	0	0.2	0.5	0.3	-0.24	-0.28	0	0	0	0	0	0
4/19/2024 12:27	59002	MIFF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/19/2024 12:29	59002	MIFF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/19/2024 12:29	59003	MIFF_T1	1	1	0	0.2	0.5	0.3	-0.24	-0.28	0	0	0	0	0	0
4/19/2024 12:35	65702	RVIL_T2	0	0	0	0	0	0	-1.01	-1.04	1	1	0	600	600	0
4/19/2024 12:37	65702	RVIL_T2	0	0	0	0	0	0	-1.01	-1.04	1	1	0	600	600	0
4/19/2024 12:37	66902	SHIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/19/2024 12:37	66901	SHIL_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
4/19/2024 12:37	67502	WEWI_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
4/19/2024 12:38	65702	RVIL_T2	0	0	0	0	0	0	-1.04	-1.02	1	1	0	600	600	0
4/19/2024 12:40	24702	FLND_T2	0	0	0	0	0	0	-0.07	0.14	1	1	0	1200	1200	0
4/19/2024 12:44	12604	MACA_T1	0	0	0	0	0	0	-0.78	0.2	0	0	0	0	0	0
4/19/2024 12:47	12604	MACA_T1	0	0	0	0	0	0	-0.78	0.2	0	0	0	0	0	0
4/19/2024 12:49	12604	MACA_T1	0	0	0	0	0	0	-0.78	0.2	0	0	0	0	0	0
4/19/2024 12:52	65702	RVIL_T2	0	0	0	0	0	0	-1.04	-1.02	1	1	0	600	600	0
4/19/2024 12:54	12604	MACA_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
4/19/2024 12:55	14603	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/19/2024 12:55	14601	SWHI_T1	0	0	0	0	0	0	-1	-0.99	0	0	0	0	0	0
4/19/2024 12:55	43801	SWIL_T1	2	2	0	2.6	2.6	0	0	0	0	0	0	0	0	0
4/19/2024 12:55	43802	SWIL_T1	0	0	0	0	0	0	-0.32	-0.31	1	1	0	600	600	0
4/19/2024 12:57	62601	ENGL_T1	0	1	1	0	0	0	-0.08	-0.18	0	0	0	0	0	0
4/19/2024 13:03	58401	MORO_T1	0	0	0	0	0	0	-1.13	-1.13	1	1	0	600	600	0
4/19/2024 13:05	58401	MORO_T1	0	0	0	0	0	0	-1.13	-1.13	1	1	0	600	600	0
4/19/2024 13:06	62104	ELAN_T1	0	0	0	0	0	0	0.32	0.37	2	2	0	1500	1500	0
4/19/2024 13:06	67803	WLAN_T1	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
4/19/2024 13:07	67803	WLAN_T1	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
4/19/2024 13:07	62104	ELAN_T1	0	0	0	0	0	0	0.32	0.37	2	2	0	1500	1500	0
4/19/2024 13:07	45402	WBLO_T2	2	2	0	0.85	1.2	0.35	-1.82	-1.84	1	1	0	900	900	0
4/19/2024 13:08	67804	WLAN_T1	0	0	0	0	0	0	-2.3	-2.3	0	0	0	0	0	0
4/19/2024 13:09	67804	WLAN_T1	0	0	0	0	0	0	-2.3	-2.3	0	0	0	0	0	0
4/19/2024 13:09	67803	WLAN_T1	0	0	0	0	0	0	-1.86	-1.88	0	0	0	0	0	0
4/19/2024 13:09	67805	WLAN_T1	0	0	0	0	0	0	-1.02	-1	0	0	0	0	0	0
4/19/2024 13:09	26401	INOR_T1	1	1	0	8.2	8.3	0.1	0.66	0.68	0	0	0	0	0	0
4/19/2024 13:10	67803	WLAN_T1	0	0	0	0	0	0	-1.86	-1.88	0	0	0	0	0	0
4/19/2024 13:10	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 13:10	45402	WBLO_T2	2	2	0	0.85	1.2	0.35	-1.84	-1.85	1	1	0	900	900	0
4/19/2024 13:10	67804	WLAN_T1	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
4/19/2024 13:11	67805	WLAN_T1	0	0	0	0	0	0	-1.02	-1	0	0	0	0	0	0
4/19/2024 13:11	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 13:12	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 13:13	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 13:13	62605	ENGL_T1	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
4/19/2024 13:14	62605	ENGL_T1	0	0	0	0	0	0	-1.66	-1.68	0	0	0	0	0	0
4/19/2024 13:17	62605	ENGL_T1	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
4/19/2024 13:28	54505	ENOL_T2	1	1	0	1	1	0	-1.35	-1.35	1	1	0	600	600	0
4/19/2024 13:28	54502	ENOL_T2	3	36	33	0.23	0.12	-0.11	0	0	0	0	0	0	0	0
4/19/2024 13:28	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 13:39	20403	ASHF_T2	0	18	18	0	0.17	0.17	0.11	0.07	0	0	0	0	0	0
4/19/2024 13:46	59301	MCAL_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/19/2024 13:46	25503	MADI_T1	28	13	-15	0.11	0.17	0.06	-0.98	-1.04	0	0	0	0	0	0
4/19/2024 13:46	59302	MCAL_T1	0	0	0	0	0	0	-0.31	-0.28	1	1	0	600	600	0
4/19/2024 13:51	65503	MOJO_T2	8	9	1	0.14	0.16	0.02	-1.38	-1.4	1	1	0	900	900	0
4/19/2024 13:55	65702	RVIL_T2	0	0	0	0	0	0	-1.01	-1.05	1	1	0	600	600	0
4/19/2024 13:56	67803	WLAN_T1	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
4/19/2024 14:01	64204	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/19/2024 14:01	64202	KINZ_T1	3	3	0	0.17	0.33	0.16	0	0	0	0	0	0	0	0
4/19/2024 14:01	64203	KINZ_T1	0	0	0	0	0	0	-0.33	-0.44	3	3	0	2100	2100	0
4/19/2024 14:04	13302	ORVI_T2	0	0	0	0	0	0	1.32	1.42	0	0	0	0	0	0
4/19/2024 14:12	67605	WARW_T1	12	11	-1	0.43	0.46	0.03	-0.93	-0.93	0	0	0	0	0	0
4/19/2024 14:17	67605	WARW_T1	9	11	2	0.39	0.45	0.06	-0.93	-0.93	0	0	0	0	0	0
4/19/2024 14:17	59003	MIFF_T1	1	1	0	0.2	0.4	0.2	-0.18	-0.35	0	0	0	0	0	0
4/19/2024 14:17	59002	MIFF_T1	2	4	2	0.25	0.25	0	0	0	0	0	0	0	0	0
4/19/2024 14:17	44201	POIN_T1	9	227	218	0.12	0.25	0.13	-4.26	-4.78	4	4	0	4200	4200	0
4/19/2024 14:20	43202	MVIL_T2	119	137	18	0.54	0.79	0.25	-0.67	-0.71	0	0	0	0	0	0
4/19/2024 14:20	43201	MVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 14:23	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 14:24	59101	WALK_T2	0	0	0	0	0	0	1.28	1.33	0	0	0	0	0	0
4/19/2024 14:25	47401	PENS_T1	0	0	0	0	0	0	0.81	0.76	0	0	0	0	0	0
4/19/2024 14:25	47402	PENS_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/19/2024 14:28	67604	WARW_T1	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
4/19/2024 14:28	67605	WARW_T1	9	11	2	0.39	0.45	0.06	0	0	0	0	0	0	0	0
4/19/2024 14:38	67802	WLAN_T1	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
4/19/2024 14:40	66503	SMAN_T2	0	0	0	0	0	0	0.31	0.4	0	0	0	0	0	0
4/19/2024 14:40	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/19/2024 14:41	10805	CHHI_T2	1	1	0	7.4	7.3	-0.1	-1.13	-0.96	1	1	0	600	600	0
4/19/2024 14:42	11404	FARM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/19/2024 14:42	11402	FARM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/19/2024 14:42	10805	CHHI_T2	1	1	0	7.4	7.3	-0.1	-1.13	-0.96	1	1	0	600	600	0
4/19/2024 14:42	11405	FARM_T1	0	0	0	0	0	0	-1.19	-1.16	1	1	0	1200	1200	0
4/19/2024 14:43	10805	CHHI_T2	1	1	0	7.4	7.3	-0.1	-1.13	-0.96	1	1	0	600	600	0
4/19/2024 14:43	61702	ELIZ_T2	0	2	2	0	0.1	0.1	-1.66	-1.64	1	1	0	300	300	0
4/19/2024 14:48	63602	LETO_T1	66	111	45	0.13	0.21	0.08	-0.62	-0.51	0	0	0	0	0	0
4/19/2024 14:54	66201	SISP_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
4/19/2024 14:54	66202	SISP_T2	0	0	0	0	0	0	-0.35	-0.48	0	0	0	0	0	0
4/19/2024 14:56	15001	BLMO_T1	4	4	0	0.23	0.28	0.05	0	0	0	0	0	0	0	0
4/19/2024 15:02	61503	EPET_T1	0	0	0	0	0	0	-0.37	-0.27	0	0	0	0	0	0
4/19/2024 15:05	43802	SWIL_T1	0	0	0	0	0	0	-0.28	-0.29	1	1	0	600	600	0
4/19/2024 15:05	43801	SWIL_T1	18	13	-5	0.46	0.59	0.13	0	0	0	0	0	0	0	0
4/19/2024 15:06	66901	SHIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/19/2024 15:06	66902	SHIL_T2	0	0	0	0	0	0	-1.8	-1.81	0	0	0	0	0	0
4/19/2024 15:08	46001	BERW_T1	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
4/19/2024 15:09	46001	BERW_T1	0	0	0	0	0	0	1.8	2.07	0	0	0	0	0	0
4/19/2024 15:09	42601	TUSC_T1	0	0	0	0	0	0	0.21	0.16	3	2	-1	2400	1800	-600
4/19/2024 15:10	67801	WLAN_T1	0	0	0	0	0	0	0.87	0.9	0	0	0	0	0	0
4/19/2024 15:10	46001	BERW_T1	0	0	0	0	0	0	0.6	0.69	0	0	0	0	0	0
4/19/2024 15:10	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/19/2024 15:13	67804	WLAN_T1	0	0	0	0	0	0	-1.13	-1.13	0	0	0	0	0	0
4/19/2024 15:13	63305	GREE_T1	0	0	0	0	0	0	-1.22	-1.15	0	0	0	0	0	0
4/19/2024 15:14	63305	GREE_T1	0	0	0	0	0	0	-1.22	-1.15	0	0	0	0	0	0
4/19/2024 15:14	50105	HARR_T3	6	6	0	5.4	5.92	0.52	0	0	0	0	0	0	0	0
4/19/2024 15:14	50102	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/19/2024 15:14	50103	HARR_T3	2	2	0	0.85	0.95	0.1	-1.06	-1.07	1	1	0	1200	1200	0
4/19/2024 15:14	50201	HARR_T3	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/19/2024 15:14	50106	HARR_T3	0	2	2	0	5.6	5.6	0	0	0	0	0	0	0	0
4/19/2024 15:15	45702	LIND_T2	1	1	0	2.1	2.1	0	-0.72	-0.73	0	0	0	0	0	0
4/19/2024 15:21	43704	WILL_T1	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
4/19/2024 15:21	43703	WILL_T1	1	7	6	0.1	0.19	0.09	0	0	0	0	0	0	0	0
4/19/2024 15:21	43705	WILL_T1	2	2	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
4/19/2024 15:21	43701	WILL_T1	0	1	1	0	0.1	0.1	0.08	0.04	0	0	0	0	0	0
4/19/2024 15:30	46504	LOHA_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/19/2024 15:30	46502	LOHA_T1	0	0	0	0	0	0	-1.38	-1.31	1	1	0	1200	1200	0
4/19/2024 15:30	46506	LOHA_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/19/2024 15:31	45801	HEGI_T1	0	0	0	0	0	0	-0.27	-0.29	1	1	0	900	900	0
4/19/2024 15:34	65802	RTWN_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
4/19/2024 15:40	46001	BERW_T1	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
4/19/2024 15:40	67002	STHI_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
4/19/2024 15:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 15:42	29402	BELT_T1	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
4/19/2024 15:42	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/19/2024 15:43	63403	HONY_T2	0	0	0	0	0	0	-0.18	-0.38	1	1	0	600	600	0
4/19/2024 15:43	63402	HONY_T2	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
4/19/2024 15:44	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.03	0	0	0	0	0	0
4/19/2024 15:46	53501	EVIL_T2	3	3	0	0.5	0.6	0.1	-0.98	-0.95	1	1	0	600	600	0
4/19/2024 15:52	42001	MNVL_T2	5	6	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/19/2024 15:52	42002	MNVL_T2	1	1	0	2.5	2.6	0.1	0.19	0.17	0	0	0	0	0	0
4/19/2024 15:56	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 15:57	20403	ASHF_T2	13	16	3	0.22	0.26	0.04	0	0	0	0	0	0	0	0
4/19/2024 16:02	60502	NMAN_T2	0	1	1	0	0.1	0.1	-0.48	-0.49	0	0	0	0	0	0
4/19/2024 16:02	60501	NMAN_T2	3	3	0	4.97	5.03	0.06	0	0	0	0	0	0	0	0
4/19/2024 16:05	60501	NMAN_T2	3	3	0	4.97	5.03	0.06	0	0	0	0	0	0	0	0
4/19/2024 16:05	13807	SALI_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
4/19/2024 16:05	60502	NMAN_T2	0	1	1	0	0.1	0.1	-0.48	-0.49	0	0	0	0	0	0
4/19/2024 16:08	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/19/2024 16:10	51603	DUKE_T1	2	2	0	0.55	0.5	-0.05	-0.49	-0.51	0	0	0	0	0	0
4/19/2024 16:13	51603	DUKE_T1	2	2	0	0.55	0.5	-0.05	-0.49	-0.51	0	0	0	0	0	0
4/19/2024 16:13	62605	ENGL_T1	0	0	0	0	0	0	-1.68	-1.7	0	0	0	0	0	0
4/19/2024 16:15	62605	ENGL_T1	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
4/19/2024 16:15	62602	ENGL_T1	0	0	0	0	0	0	0.05	0.07	0	0	0	0	0	0
4/19/2024 16:17	12401	MILF_T1	0	0	0	0	0	0	-0.37	-0.42	0	0	0	0	0	0
4/19/2024 16:24	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 16:24	65207	PRIN_T4	23	0	-23	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/19/2024 16:24	65206	PRIN_T4	24	0	-24	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/19/2024 16:33	59101	WALK_T2	0	0	0	0	0	0	1.31	1.33	0	0	0	0	0	0
4/19/2024 16:39	40504	CRES_T1	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
4/19/2024 16:39	40505	CRES_T1	3	3	0	5.77	5.47	-0.3	0	0	0	0	0	0	0	0
4/19/2024 16:40	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 16:43	55105	WERT_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
4/19/2024 16:43	45902	AUBU_T1	0	0	0	0	0	0	-0.83	-0.89	1	1	0	600	600	0
4/19/2024 16:45	12601	MACA_T1	0	0	0	0	0	0	0.64	0.68	0	0	0	0	0	0
4/19/2024 16:46	62605	ENGL_T1	0	0	0	0	0	0	-0.85	-0.81	0	0	0	0	0	0
4/19/2024 16:55	51603	DUKE_T1	2	2	0	0.55	0.55	0	-0.47	-0.45	0	0	0	0	0	0
4/19/2024 16:56	45902	AUBU_T1	0	0	0	0	0	0	-0.89	-0.91	1	1	0	600	600	0
4/19/2024 17:15	12002	HATF_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/19/2024 17:15	12006	HATF_T1	0	0	0	0	0	0	0.75	0.7	0	0	0	0	0	0
4/19/2024 17:23	56802	BENV_T2	2	3	1	0.6	0.5	-0.1	-1.45	-1.49	0	0	0	0	0	0
4/19/2024 17:37	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/19/2024 17:40	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
4/19/2024 17:40	66505	SMAN_T2	2	3	1	0.2	0.53	0.33	0	0	0	0	0	0	0	0
4/19/2024 17:45	63305	GREE_T1	0	0	0	0	0	0	-1.35	-1.28	0	0	0	0	0	0
4/19/2024 17:46	63305	GREE_T1	0	0	0	0	0	0	-1.35	-1.28	0	0	0	0	0	0
4/19/2024 17:50	11205	ELHE_T1	0	0	0	0	0	0	-1.02	-1.05	1	1	0	1200	1200	0
4/19/2024 17:51	49804	UNIV_T1	0	1	1	0	0.1	0.1	0.4	0.4	0	0	0	0	0	0
4/19/2024 17:52	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/19/2024 17:56	14601	SWHI_T1	0	0	0	0	0	0	-1	-0.99	0	0	0	0	0	0
4/19/2024 18:10	67505	WEWI_T1	0	0	0	0	0	0	-0.3	-0.32	1	1	0	900	900	0
4/19/2024 18:10	61304	EARL_T1	0	0	0	0	0	0	-0.97	-0.95	1	1	0	600	600	0
4/19/2024 18:27	15001	BLMO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/19/2024 20:06	52503	PROG_T2	0	0	0	0	0	0	-0.7	-0.76	1	1	0	900	900	0
4/19/2024 20:25	50102	HARR_T3	7	11	4	0.13	0.14	0.01	0	0	0	0	0	0	0	0
4/19/2024 20:25	50201	HARR_T3	2	2	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
4/19/2024 20:25	50105	HARR_T3	6	6	0	5.87	5.73	-0.14	0	0	0	0	0	0	0	0
4/19/2024 20:25	50103	HARR_T3	2	2	0	0.75	0.9	0.15	-1.09	-1.02	1	1	0	1200	1200	0
4/19/2024 20:25	50202	HARR_T3	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/19/2024 20:28	60404	DILL_T2	0	0	0	0	0	0	0.53	0.67	0	0	0	0	0	0
4/19/2024 20:29	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/19/2024 20:39	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 20:44	26401	INOR_T1	1	1	0	9.1	9.3	0.2	0.34	0.37	0	0	0	0	0	0
4/19/2024 20:48	54204	PENN_T2	3	3	0	0.57	0.63	0.06	0	0	0	0	0	0	0	0
4/19/2024 20:48	54205	PENN_T1	23	40	17	0.1	0.19	0.09	0	0	0	0	0	0	0	0
4/19/2024 20:48	54201	PENN_T1	45	59	14	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
4/19/2024 20:48	54202	PENN_T2	211	313	102	0.17	0.2	0.03	0.49	0.49	0	0	0	0	0	0
4/19/2024 20:48	54203	PENN_T1	116	161	45	0.37	0.32	-0.05	-0.08	-0.03	0	0	0	0	0	0
4/19/2024 20:48	54206	PENN_T2	101	121	20	0.23	0.26	0.03	0	0	0	0	0	0	0	0
4/19/2024 20:49	54204	PENN_T2	3	3	0	0.57	0.63	0.06	0	0	0	0	0	0	0	0
4/19/2024 20:49	54202	PENN_T2	211	313	102	0.17	0.2	0.03	0	0	0	0	0	0	0	0
4/19/2024 20:49	54206	PENN_T2	101	121	20	0.23	0.26	0.03	-0.04	-0.09	0	0	0	0	0	0
4/19/2024 20:52	54205	PENN_T1	23	40	17	0.1	0.19	0.09	0	0	0	0	0	0	0	0
4/19/2024 20:52	54201	PENN_T1	45	59	14	0.4	0.37	-0.03	0.14	0.17	0	0	0	0	0	0
4/19/2024 20:52	54203	PENN_T1	116	161	45	0.37	0.32	-0.05	-0.08	-0.03	0	0	0	0	0	0
4/19/2024 20:53	66502	SMAN_T2	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
4/19/2024 20:53	66505	SMAN_T2	3	3	0	0.77	0.97	0.2	0	0	0	0	0	0	0	0
4/19/2024 20:53	66503	SMAN_T2	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
4/19/2024 20:53	66501	SMAN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 20:55	54201	PENN_T1	45	59	14	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
4/19/2024 20:55	54205	PENN_T1	23	40	17	0.1	0.19	0.09	0	0	0	0	0	0	0	0
4/19/2024 20:55	54203	PENN_T1	116	161	45	0.37	0.32	-0.05	-0.03	-0.06	0	0	0	0	0	0
4/19/2024 20:56	29402	BELT_T1	1	1	0	7.1	7	-0.1	0	0	0	0	0	0	0	0
4/19/2024 20:56	13501	MCMI_T1	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
4/19/2024 21:00	23404	HONE_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
4/19/2024 21:00	23403	HONE_T1	0	0	0	0	0	0	-0.81	-0.77	0	0	0	0	0	0
4/19/2024 21:01	46801	HEPB_T2	2	2	0	0.6	0.85	0.25	0.57	0.56	0	0	0	0	0	0
4/19/2024 21:04	66503	SMAN_T2	4	11	7	0.1	0.17	0.07	0	0	0	0	0	0	0	0
4/19/2024 21:04	66501	SMAN_T2	2	22	20	0.1	0.12	0.02	0	0	0	0	0	0	0	0
4/19/2024 21:04	66502	SMAN_T2	0	2	2	0	0.1	0.1	-0.17	-0.17	0	0	0	0	0	0
4/19/2024 21:04	66505	SMAN_T2	3	3	0	0.97	0.3	-0.67	0	0	0	0	0	0	0	0
4/19/2024 21:04	64802	MONE_T2	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
4/19/2024 21:06	13807	SALI_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
4/19/2024 21:07	40501	CRES_T2	0	7	7	0	0.19	0.19	0	0	0	0	0	0	0	0
4/19/2024 21:07	29402	BELT_T1	1	1	0	7	7.2	0.2	0	0	0	0	0	0	0	0
4/19/2024 21:07	40502	CRES_T2	2	11	9	0.1	0.35	0.25	0.5	0.5	0	0	0	0	0	0
4/19/2024 21:07	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/19/2024 21:09	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:09	67002	STHI_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
4/19/2024 21:09	62106	ELAN_T1	6	8	2	0.1	0.21	0.11	0	0	0	0	0	0	0	0
4/19/2024 21:09	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:09	62101	ELAN_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:09	62104	ELAN_T1	0	0	0	0	0	0	1.59	1.59	0	0	0	0	0	0
4/19/2024 21:09	62105	ELAN_T1	13	108	95	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/19/2024 21:09	62103	ELAN_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/19/2024 21:10	29402	BELT_T1	1	1	0	7	7.2	0.2	0	0	0	0	0	0	0	0
4/19/2024 21:10	11405	FARM_T1	1	2	1	3.7	1.6	-2.1	-1.12	-1.15	1	1	0	1200	1200	0
4/19/2024 21:10	13901	SEID_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
4/19/2024 21:10	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 21:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/19/2024 21:11	41305	FISH_T1	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
4/19/2024 21:11	17002	RIRO_T2	71	76	5	0.2	0.19	-0.01	0.31	0.29	0	0	0	0	0	0
4/19/2024 21:11	41301	FISH_T1	3	30	27	0.63	0.26	-0.37	-0.06	-0.07	0	0	0	0	0	0
4/19/2024 21:12	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/19/2024 21:12	21901	HUMB_T1	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
4/19/2024 21:12	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 21:12	53901	HALI_T2	1	1	0	1	0.8	-0.2	-1.06	-1.08	0	0	0	0	0	0
4/19/2024 21:12	53903	HALI_T2	2	2	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:12	53902	HALI_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
4/19/2024 21:12	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 21:14	56802	BENV_T2	110	221	111	0.21	0.43	0.22	-1.48	-1.45	0	0	0	0	0	0
4/19/2024 21:14	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/19/2024 21:15	24702	FLND_T2	0	0	0	0	0	0	-0.27	-0.25	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/19/2024 21:15	24701	FLND_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/19/2024 21:16	14203	EALL_T1	0	0	0	0	0	0	0.77	0.8	0	0	0	0	0	0
4/19/2024 21:17	20403	ASHF_T2	0	7	7	0	0.2	0.2	0.19	0.2	0	0	0	0	0	0
4/19/2024 21:17	22602	KIMB_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
4/19/2024 21:18	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.5	0	0	0	0	0	0
4/19/2024 21:19	46001	BERW_T1	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
4/19/2024 21:19	61304	EARL_T1	0	0	0	0	0	0	-1.1	-1.06	1	1	0	600	600	0
4/19/2024 21:20	65502	MOJO_T2	306	384	78	0.32	0.49	0.17	0	0	0	0	0	0	0	0
4/19/2024 21:20	62605	ENGL_T1	0	3	3	0	0.1	0.1	-0.86	-0.89	0	0	0	0	0	0
4/19/2024 21:20	40302	TAMA_T3	50	52	2	0.77	0.78	0.01	0.31	0.31	0	0	0	0	0	0
4/19/2024 21:20	65503	MOJO_T2	226	369	143	0.22	0.37	0.15	-0.65	-0.62	0	0	0	0	0	0
4/19/2024 21:20	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/19/2024 21:20	29402	BELT_T1	1	1	0	7	7.5	0.5	0	0	0	0	0	0	0	0
4/19/2024 21:20	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 21:20	10805	CHHI_T2	1	1	0	7	7.1	0.1	-1.11	-1.07	0	0	0	0	0	0
4/19/2024 21:20	40303	TAMA_T3	6	8	2	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/19/2024 21:20	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/19/2024 21:20	14404	SSLA_T1	2	2	0	2.95	3.1	0.15	-0.03	-0.04	0	0	0	0	0	0
4/19/2024 21:21	53501	EVIL_T2	1	2	1	0.4	0.4	0	-0.31	-0.34	0	0	0	0	0	0
4/19/2024 21:21	12803	MICK_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/19/2024 21:21	12807	MICK_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/19/2024 21:21	40501	CRES_T2	2	7	5	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:21	12801	MICK_T1	0	0	0	0	0	0	-0.25	-0.28	1	1	0	600	600	0
4/19/2024 21:21	12603	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 21:21	46001	BERW_T1	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
4/19/2024 21:21	12604	MACA_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
4/19/2024 21:21	24902	WHHA_T1	3	2	-1	0.77	0.3	-0.47	0	0	0	0	0	0	0	0
4/19/2024 21:21	59101	WALK_T2	0	0	0	0	0	0	1.27	1.38	0	0	0	0	0	0
4/19/2024 21:21	40502	CRES_T2	5	19	14	0.24	0.32	0.08	0.5	0.49	0	0	0	0	0	0
4/19/2024 21:21	42601	TUSC_T1	1	0	-1	0.2	0	-0.2	-0.62	-0.7	2	2	0	1800	1800	0
4/19/2024 21:22	40501	CRES_T2	2	7	5	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:22	10801	CHHI_T1	0	0	0	0	0	0	-1.03	-1	1	1	0	900	900	0
4/19/2024 21:22	24602	VARD_T2	696	780	84	0.88	0.98	0.1	-1.12	-1.14	0	0	0	0	0	0
4/19/2024 21:22	24603	VARD_T2	11	44	33	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
4/19/2024 21:22	40502	CRES_T2	5	19	14	0.24	0.32	0.08	0.5	0.49	0	0	0	0	0	0
4/19/2024 21:23	15001	BLMO_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
4/19/2024 21:23	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
4/19/2024 21:23	14404	SSLA_T1	2	2	0	2.95	3.1	0.15	-0.03	-0.04	0	0	0	0	0	0
4/19/2024 21:23	45902	AUBU_T1	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
4/19/2024 21:24	67101	SPII_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 21:24	64702	LITI_T2	0	0	0	0	0	0	-0.77	-0.79	0	0	0	0	0	0
4/19/2024 21:24	45902	AUBU_T1	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
4/19/2024 21:24	42901	MIDD_T2	292	420	128	0.37	0.5	0.13	0	0	0	0	0	0	0	0
4/19/2024 21:24	42902	MIDD_T2	118	202	84	0.47	0.5	0.03	-0.65	-0.64	0	0	0	0	0	0
4/19/2024 21:24	12502	MITR_T2	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
4/19/2024 21:24	15001	BLMO_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
4/19/2024 21:24	12505	MITR_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
4/19/2024 21:24	42903	MIDD_T2	14	46	32	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
4/19/2024 21:25	67803	WLAN_T1	155	197	42	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/19/2024 21:25	45902	AUBU_T1	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
4/19/2024 21:25	67804	WLAN_T1	14	51	37	0.12	0.14	0.02	-1.14	-1.16	0	0	0	0	0	0
4/19/2024 21:25	67801	WLAN_T1	2	8	6	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/19/2024 21:25	60502	NMAN_T2	1	25	24	0.2	0.17	-0.03	-0.64	-0.66	0	0	0	0	0	0
4/19/2024 21:25	67802	WLAN_T1	19	15	-4	0.24	0.25	0.01	0	0	0	0	0	0	0	0
4/19/2024 21:25	14601	SWHI_T1	0	0	0	0	0	0	-1.01	-1.03	0	0	0	0	0	0
4/19/2024 21:25	14603	SWHI_T1	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
4/19/2024 21:25	40502	CRES_T2	5	19	14	0.24	0.32	0.08	0.49	0.49	0	0	0	0	0	0
4/19/2024 21:25	67805	WLAN_T1	510	541	31	0.53	0.55	0.02	0	0	0	0	0	0	0	0
4/19/2024 21:25	40501	CRES_T2	2	7	5	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:25	60501	NMAN_T2	32	84	52	0.68	0.49	-0.19	0	0	0	0	0	0	0	0
4/19/2024 21:26	45901	AUBU_T1	0	0	0	0	0	0	1.5	1.47	0	0	0	0	0	0
4/19/2024 21:26	40501	CRES_T2	2	7	5	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:26	51204	MTON_T2	0	0	0	0	0	0	-0.49	-0.5	1	1	0	600	600	0
4/19/2024 21:26	40502	CRES_T2	5	19	14	0.24	0.32	0.08	0.98	0.98	0	0	0	0	0	0
4/19/2024 21:26	15001	BLMO_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
4/19/2024 21:26	45902	AUBU_T1	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
4/19/2024 21:27	46001	BERW_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
4/19/2024 21:27	40501	CRES_T2	2	7	5	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:27	66504	SMAN_T2	0	3	3	0	0.1	0.1	-1.49	-1.49	0	0	0	0	0	0
4/19/2024 21:27	66503	SMAN_T2	6	34	28	0.12	0.12	0	0	0	0	0	0	0	0	0
4/19/2024 21:27	40502	CRES_T2	5	19	14	0.24	0.32	0.08	0.49	0.49	0	0	0	0	0	0
4/19/2024 21:27	47401	PENS_T1	1	1	0	2.7	1.3	-1.4	0.72	0.69	0	0	0	0	0	0
4/19/2024 21:27	66502	SMAN_T2	0	19	19	0	0.13	0.13	0	0	0	0	0	0	0	0
4/19/2024 21:27	20403	ASHF_T2	0	7	7	0	0.2	0.2	0.14	0	0	0	0	0	0	0
4/19/2024 21:27	12401	MILF_T1	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
4/19/2024 21:27	66501	SMAN_T2	3	43	40	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/19/2024 21:27	66505	SMAN_T2	2	3	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:27	10801	CHHI_T1	0	0	0	0	0	0	-1	-1.03	1	1	0	900	900	0
4/19/2024 21:27	64702	LITI_T2	0	0	0	0	0	0	-1.54	-1.58	0	0	0	0	0	0
4/19/2024 21:28	43301	WATS_T2	1	0	-1	0.1	0	-0.1	0.17	0.17	0	0	0	0	0	0
4/19/2024 21:28	15001	BLMO_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
4/19/2024 21:28	42001	MNVL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:28	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:28	43304	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/19/2024 21:28	44201	POIN_T1	232	470	238	0.4	0.34	-0.06	-2.44	-2.46	2	2	0	2100	2100	0
4/19/2024 21:28	43801	SWIL_T1	16	31	15	0.58	0.38	-0.2	0	0	0	0	0	0	0	0
4/19/2024 21:28	67002	STHI_T2	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
4/19/2024 21:28	43302	WATS_T2	5	5	0	0.64	1.04	0.4	0	0	0	0	0	0	0	0
4/19/2024 21:28	43802	SWIL_T1	0	0	0	0	0	0	-0.31	-0.3	1	1	0	600	600	0
4/19/2024 21:28	59202	THOM_T1	2	9	7	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/19/2024 21:28	42002	MNVL_T2	1	3	2	2.2	2.2	0	0.18	0.14	0	0	0	0	0	0
4/19/2024 21:28	14601	SWHI_T1	0	0	0	0	0	0	-1.01	-1.03	0	0	0	0	0	0
4/19/2024 21:29	12603	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 21:29	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:29	67002	STHI_T2	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
4/19/2024 21:29	63404	HONY_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/19/2024 21:29	66503	SMAN_T2	6	34	28	0.12	0.12	0	0	0	0	0	0	0	0	0
4/19/2024 21:29	66505	SMAN_T2	2	3	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:29	66502	SMAN_T2	0	19	19	0	0.13	0.13	0	0	0	0	0	0	0	0
4/19/2024 21:29	63401	HONY_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
4/19/2024 21:29	66501	SMAN_T2	3	43	40	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/19/2024 21:29	66504	SMAN_T2	0	3	3	0	0.1	0.1	-0.75	-0.75	0	0	0	0	0	0
4/19/2024 21:29	12601	MACA_T1	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
4/19/2024 21:29	66203	SISP_T2	0	0	0	0	0	0	-1.39	-1.44	1	1	0	1200	1200	0
4/19/2024 21:30	14601	SWHI_T1	0	0	0	0	0	0	-1.01	-1.03	0	0	0	0	0	0
4/19/2024 21:30	41901	REED_T1	9	9	0	0.28	0.47	0.19	0	0	0	0	0	0	0	0
4/19/2024 21:30	26002	WDAM_T1	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/19/2024 21:30	66901	SHIL_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/19/2024 21:30	12604	MACA_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
4/19/2024 21:30	66503	SMAN_T2	11	34	23	0.17	0.12	-0.05	0.31	0.25	0	0	0	0	0	0
4/19/2024 21:30	66502	SMAN_T2	2	19	17	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/19/2024 21:30	50105	HARR_T3	6	6	0	5.72	5.88	0.16	0	0	0	0	0	0	0	0
4/19/2024 21:30	41902	REED_T1	0	0	0	0	0	0	1.01	0.94	0	0	0	0	0	0
4/19/2024 21:30	66504	SMAN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:30	50102	HARR_T3	8	0	-8	0.18	0	-0.18	0	0	0	0	0	0	0	0
4/19/2024 21:30	66902	SHIL_T2	0	0	0	0	0	0	-1.86	-1.86	0	0	0	0	0	0
4/19/2024 21:30	26001	WDAM_T1	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
4/19/2024 21:30	50202	HARR_T3	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/19/2024 21:30	66501	SMAN_T2	20	43	23	0.12	0.16	0.04	0	0	0	0	0	0	0	0
4/19/2024 21:30	50201	HARR_T3	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/19/2024 21:30	66505	SMAN_T2	3	3	0	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/19/2024 21:30	51603	DUKE_T1	2	0	-2	0.85	0	-0.85	-0.46	-0.48	0	0	0	0	0	0
4/19/2024 21:30	50103	HARR_T3	2	2	0	0.35	0.5	0.15	-1.06	-1.07	1	1	0	1200	1200	0
4/19/2024 21:31	67002	STHI_T2	0	3	3	0	0.1	0.1	0.52	0.5	0	0	0	0	0	0
4/19/2024 21:31	10805	CHHI_T2	1	1	0	7.2	7	-0.2	-1.07	-1.14	0	0	0	0	0	0
4/19/2024 21:31	66505	SMAN_T2	3	3	0	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/19/2024 21:31	43301	WATS_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
4/19/2024 21:31	67001	STHI_T2	1	37	36	0.1	0.1	0	0	0	0	0	0	0	0	0
4/19/2024 21:31	66504	SMAN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:31	61503	EPET_T1	0	5	5	0	0.1	0.1	-0.55	-0.6	0	0	0	0	0	0
4/19/2024 21:31	55105	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 21:31	43302	WATS_T2	5	4	-1	1.04	0.95	-0.09	0	0	0	0	0	0	0	0
4/19/2024 21:31	65702	RVIL_T2	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
4/19/2024 21:31	66503	SMAN_T2	11	34	23	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
4/19/2024 21:31	66502	SMAN_T2	2	19	17	0.1	0.13	0.03	-0.19	-0.14	0	0	0	0	0	0
4/19/2024 21:31	61502	EPET_T1	80	165	85	0.22	0.26	0.04	0	0	0	0	0	0	0	0
4/19/2024 21:31	66501	SMAN_T2	20	43	23	0.12	0.16	0.04	0	0	0	0	0	0	0	0
4/19/2024 21:32	64901	MILL_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:32	67002	STHI_T2	0	3	3	0	0.1	0.1	0.52	0.5	0	0	0	0	0	0
4/19/2024 21:32	46301	ROHR_T1	273	307	34	0.53	0.69	0.16	0.19	0.2	0	0	0	0	0	0
4/19/2024 21:32	67001	STHI_T2	1	37	36	0.1	0.1	0	0	0	0	0	0	0	0	0
4/19/2024 21:32	67703	WERN_T2	0	0	0	0	0	0	-0.41	-0.4	1	1	0	900	900	0
4/19/2024 21:32	65503	MOJO_T2	306	359	53	0.29	0.37	0.08	-0.62	-0.65	0	0	0	0	0	0
4/19/2024 21:32	65207	PRIN_T4	21	27	6	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
4/19/2024 21:32	64904	MILL_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
4/19/2024 21:32	10801	CHHI_T1	0	0	0	0	0	0	-1	-1.03	1	1	0	900	900	0
4/19/2024 21:32	63403	HONY_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
4/19/2024 21:32	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 21:32	65206	PRIN_T4	15	30	15	0.1	0.1	0	0	0	0	0	0	0	0	0
4/19/2024 21:32	20403	ASHF_T2	0	30	30	0	0.45	0.45	0.2	0.14	0	0	0	0	0	0
4/19/2024 21:32	67605	WARW_T1	32	40	8	0.47	0.58	0.11	-1	-0.99	0	0	0	0	0	0
4/19/2024 21:32	53601	DALM_T2	1	1	0	0.4	0.8	0.4	-0.06	-0.03	0	0	0	0	0	0
4/19/2024 21:32	63402	HONY_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:32	41902	REED_T1	0	0	0	0	0	0	1.01	0.94	0	0	0	0	0	0
4/19/2024 21:32	24902	WHHA_T1	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/19/2024 21:32	41901	REED_T1	9	9	0	0.28	0.47	0.19	0	0	0	0	0	0	0	0
4/19/2024 21:32	67502	WEWI_T2	0	64	64	0	0.16	0.16	-0.56	-0.59	0	0	0	0	0	0
4/19/2024 21:32	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 21:32	46302	ROHR_T1	96	172	76	0.3	0.44	0.14	0	0	0	0	0	0	0	0
4/19/2024 21:32	65502	MOJO_T2	320	382	62	0.44	0.49	0.05	0	0	0	0	0	0	0	0
4/19/2024 21:33	59301	MCAL_T1	2	2	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
4/19/2024 21:33	46302	ROHR_T1	96	172	76	0.3	0.44	0.14	0	0	0	0	0	0	0	0
4/19/2024 21:33	46301	ROHR_T1	273	307	34	0.53	0.69	0.16	0.19	0.2	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/19/2024 21:33	61503	EPET_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:33	67804	WLAN_T1	14	70	56	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/19/2024 21:33	67002	STHI_T2	0	3	3	0	0.1	0.1	0.52	0.5	0	0	0	0	0	0
4/19/2024 21:33	67803	WLAN_T1	53	232	179	0.11	0.15	0.04	0	0	0	0	0	0	0	0
4/19/2024 21:33	16301	ALPA_T1	7	74	67	0.17	0.18	0.01	-0.5	-0.49	0	0	0	0	0	0
4/19/2024 21:33	12002	HATF_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/19/2024 21:33	61505	EPET_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
4/19/2024 21:33	46102	MACI_T1	267	313	46	0.3	0.45	0.15	0.36	0.3	0	0	0	0	0	0
4/19/2024 21:33	67501	WEWI_T1	0	0	0	0	0	0	-0.72	-0.69	0	0	0	0	0	0
4/19/2024 21:33	67001	STHI_T2	1	37	36	0.1	0.1	0	0	0	0	0	0	0	0	0
4/19/2024 21:33	61502	EPET_T1	80	165	85	0.22	0.26	0.04	0	0	0	0	0	0	0	0
4/19/2024 21:33	59302	MCAL_T1	1	1	0	0.5	0.6	0.1	-0.5	-0.49	1	1	0	600	600	0
4/19/2024 21:33	67802	WLAN_T1	15	24	9	0.19	0.29	0.1	-0.48	-0.48	0	0	0	0	0	0
4/19/2024 21:33	67801	WLAN_T1	0	10	10	0	0.12	0.12	0	0	0	0	0	0	0	0
4/19/2024 21:33	67805	WLAN_T1	506	546	40	0.49	0.58	0.09	0	0	0	0	0	0	0	0
4/19/2024 21:33	12006	HATF_T1	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
4/19/2024 21:34	66901	SHIL_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/19/2024 21:34	15001	BLMO_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
4/19/2024 21:34	45902	AUBU_T1	0	27	27	0	0.18	0.18	-0.5	-0.53	0	0	0	0	0	0
4/19/2024 21:34	61502	EPET_T1	80	165	85	0.22	0.26	0.04	0	0	0	0	0	0	0	0
4/19/2024 21:34	45901	AUBU_T1	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
4/19/2024 21:34	47002	HUGH_T2	67	42	-25	0.31	0.27	-0.04	0	0	0	0	0	0	0	0
4/19/2024 21:34	66902	SHIL_T2	0	0	0	0	0	0	-1.86	-1.86	0	0	0	0	0	0
4/19/2024 21:34	67603	WARW_T1	0	0	0	0	0	0	-0.12	-0.1	0	0	0	0	0	0
4/19/2024 21:34	61505	EPET_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
4/19/2024 21:34	61503	EPET_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:34	60801	BUCK_T1	0	18	18	0	0.14	0.14	-0.91	-0.91	1	1	0	600	600	0
4/19/2024 21:34	47001	HUGH_T2	95	38	-57	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
4/19/2024 21:34	16301	ALPA_T1	7	74	67	0.17	0.18	0.01	-0.5	-0.49	0	0	0	0	0	0
4/19/2024 21:34	67605	WARW_T1	32	40	8	0.47	0.58	0.11	0	0	0	0	0	0	0	0
4/19/2024 21:34	62605	ENGL_T1	0	3	3	0	0.13	0.13	-0.89	-0.88	0	0	0	0	0	0
4/19/2024 21:35	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 21:35	20403	ASHF_T2	0	30	30	0	0.45	0.45	0.2	0.14	0	0	0	0	0	0
4/19/2024 21:35	67602	WARW_T2	0	0	0	0	0	0	1.15	1.21	1	1	0	300	300	0
4/19/2024 21:35	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 21:35	62605	ENGL_T1	0	3	3	0	0.13	0.13	-0.89	-0.88	0	0	0	0	0	0
4/19/2024 21:36	66504	SMAN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:36	62101	ELAN_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/19/2024 21:36	66502	SMAN_T2	2	19	17	0.1	0.13	0.03	-0.38	-0.29	0	0	0	0	0	0
4/19/2024 21:36	67805	WLAN_T1	506	546	40	0.49	0.58	0.09	0	0	0	0	0	0	0	0
4/19/2024 21:36	65702	RVIL_T2	0	0	0	0	0	0	-1.4	-1.38	0	0	0	0	0	0
4/19/2024 21:36	42902	MIDD_T2	151	281	130	0.42	0.74	0.32	-0.65	-0.64	0	0	0	0	0	0
4/19/2024 21:36	62102	ELAN_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/19/2024 21:36	14603	SWHI_T1	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
4/19/2024 21:36	66901	SHIL_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/19/2024 21:36	67002	STHI_T2	0	3	3	0	0.1	0.1	0.52	0.5	0	0	0	0	0	0
4/19/2024 21:36	67802	WLAN_T1	15	24	9	0.19	0.29	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:36	67703	WERN_T2	0	0	0	0	0	0	-0.41	-0.4	1	1	0	900	900	0
4/19/2024 21:36	67001	STHI_T2	1	37	36	0.1	0.1	0	0	0	0	0	0	0	0	0
4/19/2024 21:36	66501	SMAN_T2	20	43	23	0.12	0.16	0.04	0	0	0	0	0	0	0	0
4/19/2024 21:36	42901	MIDD_T2	327	539	212	0.37	0.76	0.39	0	0	0	0	0	0	0	0
4/19/2024 21:36	66505	SMAN_T2	3	3	0	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/19/2024 21:36	46001	BERW_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
4/19/2024 21:36	67804	WLAN_T1	14	70	56	0.11	0.14	0.03	-1.14	-1.16	0	0	0	0	0	0
4/19/2024 21:36	67801	WLAN_T1	0	10	10	0	0.12	0.12	0	0	0	0	0	0	0	0
4/19/2024 21:36	62105	ELAN_T1	103	158	55	0.13	0.18	0.05	0	0	0	0	0	0	0	0
4/19/2024 21:36	66902	SHIL_T2	0	0	0	0	0	0	-1.86	-1.86	0	0	0	0	0	0
4/19/2024 21:36	62103	ELAN_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/19/2024 21:36	62104	ELAN_T1	0	0	0	0	0	0	1.59	1.67	0	0	0	0	0	0
4/19/2024 21:36	45801	HEGI_T1	0	0	0	0	0	0	-0.53	-0.54	1	1	0	900	900	0
4/19/2024 21:36	66503	SMAN_T2	11	34	23	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
4/19/2024 21:36	67803	WLAN_T1	53	232	179	0.11	0.15	0.04	0	0	0	0	0	0	0	0
4/19/2024 21:36	63305	GREE_T1	8	13	5	0.13	0.23	0.1	-1.27	-1.23	0	0	0	0	0	0
4/19/2024 21:36	62106	ELAN_T1	8	18	10	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
4/19/2024 21:36	42903	MIDD_T2	10	131	121	0.6	0.44	-0.16	0	0	0	0	0	0	0	0
4/19/2024 21:37	54502	ENOL_T2	1	3	2	0.8	0.33	-0.47	0	0	0	0	0	0	0	0
4/19/2024 21:37	65802	RTWN_T2	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
4/19/2024 21:37	41902	REED_T1	0	0	0	0	0	0	1.01	0.94	0	0	0	0	0	0
4/19/2024 21:37	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
4/19/2024 21:37	59003	MIFF_T1	0	1	1	0	0.3	0.3	0.55	0.45	0	0	0	0	0	0
4/19/2024 21:37	67802	WLAN_T1	15	24	9	0.19	0.29	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:37	66502	SMAN_T2	2	19	17	0.1	0.13	0.03	-0.19	-0.14	0	0	0	0	0	0
4/19/2024 21:37	66505	SMAN_T2	3	3	0	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/19/2024 21:37	54505	ENOL_T2	1	1	0	1.1	1.1	0	-1.37	-1.36	1	1	0	600	600	0
4/19/2024 21:37	67801	WLAN_T1	0	10	10	0	0.12	0.12	0	0	0	0	0	0	0	0
4/19/2024 21:37	66503	SMAN_T2	11	34	23	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
4/19/2024 21:37	41901	REED_T1	9	9	0	0.28	0.47	0.19	0	0	0	0	0	0	0	0
4/19/2024 21:37	54501	ENOL_T2	4	4	0	0.18	0.3	0.12	0	0	0	0	0	0	0	0
4/19/2024 21:37	67605	WARW_T1	32	40	8	0.47	0.58	0.11	-1	-0.99	0	0	0	0	0	0
4/19/2024 21:37	66501	SMAN_T2	20	43	23	0.12	0.16	0.04	0	0	0	0	0	0	0	0
4/19/2024 21:37	67603	WARW_T1	0	0	0	0	0	0	-0.12	-0.1	0	0	0	0	0	0
4/19/2024 21:37	67804	WLAN_T1	14	70	56	0.11	0.14	0.03	-1.14	-1.16	0	0	0	0	0	0
4/19/2024 21:37	14601	SWHI_T1	0	0	0	0	0	0	-1.01	-1.03	0	0	0	0	0	0
4/19/2024 21:37	67803	WLAN_T1	53	232	179	0.11	0.15	0.04	0	0	0	0	0	0	0	0
4/19/2024 21:37	59002	MIFF_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/19/2024 21:37	67805	WLAN_T1	506	546	40	0.49	0.58	0.09	0	0	0	0	0	0	0	0
4/19/2024 21:37	66504	SMAN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:38	42903	MIDD_T2	10	131	121	0.6	0.44	-0.16	0	0	0	0	0	0	0	0
4/19/2024 21:38	60501	NMAN_T2	37	84	47	0.7	0.49	-0.21	0	0	0	0	0	0	0	0
4/19/2024 21:38	40502	CRES_T2	11	19	8	0.35	0.41	0.06	0.49	0.51	0	0	0	0	0	0
4/19/2024 21:38	60502	NMAN_T2	9	25	16	0.14	0.17	0.03	-0.66	-0.65	0	0	0	0	0	0
4/19/2024 21:38	40501	CRES_T2	7	9	2	0.19	0.3	0.11	0	0	0	0	0	0	0	0
4/19/2024 21:38	46504	LOHA_T1	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
4/19/2024 21:38	62605	ENGL_T1	0	3	3	0	0.13	0.13	-0.88	-0.89	0	0	0	0	0	0
4/19/2024 21:38	50502	MECH_T1	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:38	50506	MECH_T1	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
4/19/2024 21:38	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 21:38	46506	LOHA_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:38	46502	LOHA_T1	0	0	0	0	0	0	-1.41	-1.43	1	1	0	1200	1200	0
4/19/2024 21:38	42902	MIDD_T2	151	281	130	0.42	0.74	0.32	-0.65	-0.64	0	0	0	0	0	0
4/19/2024 21:38	56501	ROCK_T2	2	2	0	0.25	0.3	0.05	-0.01	-0.01	0	0	0	0	0	0
4/19/2024 21:38	10805	OHHI_T2	1	1	0	7.2	7	-0.2	-1.07	-1.14	0	0	0	0	0	0
4/19/2024 21:38	42901	MIDD_T2	327	539	212	0.37	0.76	0.39	0	0	0	0	0	0	0	0
4/19/2024 21:38	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
4/19/2024 21:38	50504	MECH_T1	2	38	36	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/19/2024 21:38	50501	MECH_T1	4	4	0	1.85	1.98	0.13	0	0	0	0	0	0	0	0
4/19/2024 21:39	67804	WLAN_T1	14	70	56	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/19/2024 21:39	67602	WARW_T2	0	0	0	0	0	0	1.21	1.39	1	1	0	300	300	0
4/19/2024 21:39	14601	SWHI_T1	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
4/19/2024 21:39	66501	SMAN_T2	20	43	23	0.12	0.16	0.04	0	0	0	0	0	0	0	0
4/19/2024 21:39	67805	WLAN_T1	506	546	40	0.49	0.58	0.09	0	0	0	0	0	0	0	0
4/19/2024 21:39	66505	SMAN_T2	3	3	0	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/19/2024 21:39	44201	POIN_T1	313	464	151	0.32	0.34	0.02	-2.46	-1.47	2	2	0	2100	2100	0
4/19/2024 21:39	66503	SMAN_T2	11	34	23	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
4/19/2024 21:39	67802	WLAN_T1	15	24	9	0.19	0.29	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:39	66502	SMAN_T2	2	19	17	0.1	0.13	0.03	-0.14	-0.15	0	0	0	0	0	0
4/19/2024 21:39	67803	WLAN_T1	53	232	179	0.11	0.15	0.04	-0.93	-0.94	0	0	0	0	0	0
4/19/2024 21:39	11805	FRAN_T1	0	0	0	0	0	0	-1.66	-1.72	1	1	0	1200	1200	0
4/19/2024 21:39	67801	WLAN_T1	0	10	10	0	0.12	0.12	0	0	0	0	0	0	0	0
4/19/2024 21:39	66504	SMAN_T2	0	3	3	0	0.1	0.1	-0.75	-0.77	0	0	0	0	0	0
4/19/2024 21:40	51603	DUKE_T1	2	0	-2	0.85	0	-0.85	-0.48	-0.49	0	0	0	0	0	0
4/19/2024 21:40	45702	LIND_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/19/2024 21:40	62605	ENGL_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/19/2024 21:40	43202	MVIL_T2	164	177	13	0.66	0.88	0.22	-0.75	-0.74	0	0	0	0	0	0
4/19/2024 21:40	45701	LIND_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
4/19/2024 21:40	62601	ENGL_T1	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
4/19/2024 21:40	43201	MVIL_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/19/2024 21:41	40501	CRES_T2	7	9	2	0.19	0.3	0.11	0	0	0	0	0	0	0	0
4/19/2024 21:41	13704	SOHN_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
4/19/2024 21:41	62101	ELAN_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/19/2024 21:41	23001	SAJO_T1	0	0	0	0	0	0	0.06	0.09	0	0	0	0	0	0
4/19/2024 21:41	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 21:41	62105	ELAN_T1	103	158	55	0.13	0.18	0.05	0	0	0	0	0	0	0	0
4/19/2024 21:41	62106	ELAN_T1	8	18	10	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
4/19/2024 21:41	62102	ELAN_T1	1	2	1	0.1	0.1	0	0.55	0.69	0	0	0	0	0	0
4/19/2024 21:41	42902	MIDD_T2	151	281	130	0.42	0.74	0.32	-0.64	-0.73	0	0	0	0	0	0
4/19/2024 21:41	62103	ELAN_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/19/2024 21:41	42903	MIDD_T2	10	131	121	0.6	0.44	-0.16	0	0	0	0	0	0	0	0
4/19/2024 21:41	40502	CRES_T2	11	19	8	0.35	0.41	0.06	0.98	1.02	0	0	0	0	0	0
4/19/2024 21:41	64101	REFR_T1	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
4/19/2024 21:41	42901	MIDD_T2	327	539	212	0.37	0.76	0.39	0	0	0	0	0	0	0	0
4/19/2024 21:42	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
4/19/2024 21:42	51201	MTON_T1	0	13	13	0	0.12	0.12	0.03	0	0	0	0	0	0	0
4/19/2024 21:42	67605	WARW_T1	32	40	8	0.47	0.58	0.11	0	0	0	0	0	0	0	0
4/19/2024 21:42	67703	WERN_T2	0	0	0	0	0	0	-0.4	-0.44	1	1	0	900	900	0
4/19/2024 21:42	67001	STHI_T2	1	37	36	0.1	0.1	0	0	0	0	0	0	0	0	0
4/19/2024 21:42	14601	SWHI_T1	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
4/19/2024 21:42	67702	WERN_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
4/19/2024 21:42	65702	RVIL_T2	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
4/19/2024 21:42	42901	MIDD_T2	327	539	212	0.37	0.76	0.39	0	0	0	0	0	0	0	0
4/19/2024 21:42	42902	MIDD_T2	151	281	130	0.42	0.74	0.32	-0.64	-0.73	0	0	0	0	0	0
4/19/2024 21:42	67603	WARW_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
4/19/2024 21:42	42903	MIDD_T2	10	131	121	0.6	0.44	-0.16	0	0	0	0	0	0	0	0
4/19/2024 21:42	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 21:42	67002	STHI_T2	0	3	3	0	0.1	0.1	1	0.94	0	0	0	0	0	0
4/19/2024 21:42	63305	GREE_T1	8	13	5	0.13	0.23	0.1	-1.23	-1.29	0	0	0	0	0	0
4/19/2024 21:43	45501	DERR_T2	1	1	0	0.2	0.1	-0.1	-0.06	-0.19	2	2	0	1800	1800	0
4/19/2024 21:43	66504	SMAN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:43	66503	SMAN_T2	11	34	23	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
4/19/2024 21:43	60502	NMAN_T2	9	25	16	0.14	0.17	0.03	-0.66	-0.65	0	0	0	0	0	0
4/19/2024 21:43	40504	CRES_T1	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
4/19/2024 21:43	67801	WLAN_T1	0	10	10	0	0.12	0.12	0	0	0	0	0	0	0	0
4/19/2024 21:43	41301	FISH_T1	30	137	107	0.26	0.23	-0.03	-0.08	-0.08	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/19/2024 21:43	67805	WLAN_T1	506	546	40	0.49	0.58	0.09	0	0	0	0	0	0	0	0
4/19/2024 21:43	60501	NMAN_T2	37	84	47	0.7	0.49	-0.21	0	0	0	0	0	0	0	0
4/19/2024 21:43	66505	SMAN_T2	3	3	0	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/19/2024 21:43	66502	SMAN_T2	2	19	17	0.1	0.13	0.03	-0.14	-0.15	0	0	0	0	0	0
4/19/2024 21:43	66901	SHIL_T2	1	1	0	0.3	0.6	0.3	-0.39	-0.45	0	0	0	0	0	0
4/19/2024 21:43	67201	TEHI_T1	0	0	0	0	0	0	-0.14	0.19	1	0	-1	900	0	-900
4/19/2024 21:43	66202	SISP_T2	0	0	0	0	0	0	-0.81	-0.89	0	0	0	0	0	0
4/19/2024 21:43	67803	WLAN_T1	53	232	179	0.11	0.15	0.04	0	0	0	0	0	0	0	0
4/19/2024 21:43	65902	SAKR_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/19/2024 21:43	41303	FISH_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:43	40505	CRES_T1	3	3	0	6.37	6.4	0.03	0	0	0	0	0	0	0	0
4/19/2024 21:43	65901	SAKR_T2	0	0	0	0	0	0	-1.5	-0.48	1	0	-1	900	0	-900
4/19/2024 21:43	41305	FISH_T1	5	20	15	0.2	0.21	0.01	0	0	0	0	0	0	0	0
4/19/2024 21:43	64101	REFR_T1	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
4/19/2024 21:43	51204	MTON_T2	0	0	0	0	0	0	-0.5	-0.5	1	1	0	600	600	0
4/19/2024 21:43	67804	WLAN_T1	14	70	56	0.11	0.14	0.03	-1.16	-1.17	0	0	0	0	0	0
4/19/2024 21:43	67802	WLAN_T1	15	24	9	0.19	0.29	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:43	66501	SMAN_T2	20	43	23	0.12	0.16	0.04	0	0	0	0	0	0	0	0
4/19/2024 21:44	65205	PRIN_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
4/19/2024 21:44	67805	WLAN_T1	506	546	40	0.49	0.58	0.09	0	0	0	0	0	0	0	0
4/19/2024 21:44	66501	SMAN_T2	20	43	23	0.12	0.16	0.04	0	0	0	0	0	0	0	0
4/19/2024 21:44	51101	CARL_T1	0	22	22	0	0.16	0.16	0	0	0	0	0	0	0	0
4/19/2024 21:44	66503	SMAN_T2	11	34	23	0.17	0.12	-0.05	0.25	0.29	0	0	0	0	0	0
4/19/2024 21:44	62605	ENGL_T1	0	3	3	0	0.13	0.13	-0.88	-0.89	0	0	0	0	0	0
4/19/2024 21:44	45402	WBLO_T2	1	2	1	0.2	0.5	0.3	-0.91	-0.91	0	0	0	0	0	0
4/19/2024 21:44	67803	WLAN_T1	53	232	179	0.11	0.15	0.04	-0.93	-0.94	0	0	0	0	0	0
4/19/2024 21:44	40505	CRES_T1	3	3	0	6.37	6.4	0.03	0	0	0	0	0	0	0	0
4/19/2024 21:44	67804	WLAN_T1	14	70	56	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/19/2024 21:44	67604	WARW_T1	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
4/19/2024 21:44	51108	CARL_T1	0	52	52	0	0.12	0.12	0	0	0	0	0	0	0	0
4/19/2024 21:44	66502	SMAN_T2	2	19	17	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/19/2024 21:44	51104	CARL_T1	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
4/19/2024 21:44	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 21:44	67801	WLAN_T1	0	10	10	0	0.12	0.12	0	0	0	0	0	0	0	0
4/19/2024 21:44	58402	MORO_T1	0	0	0	0	0	0	0.21	0.03	1	1	0	900	900	0
4/19/2024 21:44	40504	CRES_T1	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
4/19/2024 21:44	66504	SMAN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:44	66505	SMAN_T2	3	3	0	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/19/2024 21:44	67605	WARW_T1	32	40	8	0.47	0.58	0.11	0	0	0	0	0	0	0	0
4/19/2024 21:44	67802	WLAN_T1	15	24	9	0.19	0.29	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:44	51107	CARL_T1	0	5	5	0	0.18	0.18	-0.24	-0.27	0	0	0	0	0	0
4/19/2024 21:44	51102	CARL_T1	82	144	62	0.26	0.43	0.17	0	0	0	0	0	0	0	0
4/19/2024 21:45	67803	WLAN_T1	196	494	298	0.14	0.22	0.08	-0.93	-0.94	0	0	0	0	0	0
4/19/2024 21:45	15103	UPHA_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
4/19/2024 21:45	67802	WLAN_T1	14	27	13	0.26	0.33	0.07	0	0	0	0	0	0	0	0
4/19/2024 21:45	67801	WLAN_T1	8	30	22	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/19/2024 21:45	67804	WLAN_T1	51	180	129	0.14	0.17	0.03	0	0	0	0	0	0	0	0
4/19/2024 21:45	67505	WEWI_T1	0	0	0	0	0	0	-0.42	-0.39	1	1	0	900	900	0
4/19/2024 21:45	67805	WLAN_T1	540	575	35	0.55	0.59	0.04	0	0	0	0	0	0	0	0
4/19/2024 21:45	65502	MOJO_T2	382	302	-80	0.49	0.3	-0.19	-1.11	-1.17	0	0	0	0	0	0
4/19/2024 21:45	65503	MOJO_T2	359	216	-143	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
4/19/2024 21:46	58402	MORO_T1	0	0	0	0	0	0	0.21	0.03	1	1	0	900	900	0
4/19/2024 21:46	62605	ENGL_T1	3	4	1	0.1	0.13	0.03	-0.88	-0.89	0	0	0	0	0	0
4/19/2024 21:46	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 21:47	66502	SMAN_T2	19	0	-19	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/19/2024 21:47	67802	WLAN_T1	14	27	13	0.26	0.33	0.07	0	0	0	0	0	0	0	0
4/19/2024 21:47	66503	SMAN_T2	34	1	-33	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
4/19/2024 21:47	67801	WLAN_T1	8	30	22	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/19/2024 21:47	67805	WLAN_T1	540	575	35	0.55	0.59	0.04	0	0	0	0	0	0	0	0
4/19/2024 21:47	40504	CRES_T1	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
4/19/2024 21:47	49804	UNIV_T1	1	1	0	0.1	0.5	0.4	0.37	0.36	0	0	0	0	0	0
4/19/2024 21:47	50501	MECH_T1	4	4	0	1.75	1.98	0.23	0	0	0	0	0	0	0	0
4/19/2024 21:47	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 21:47	49803	UNIV_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
4/19/2024 21:47	46801	HEPB_T2	2	3	1	0.7	0.67	-0.03	0	0	0	0	0	0	0	0
4/19/2024 21:47	50504	MECH_T1	0	38	38	0	0.13	0.13	0	0	0	0	0	0	0	0
4/19/2024 21:47	66504	SMAN_T2	3	0	-3	0.1	0	-0.1	-0.75	-0.77	0	0	0	0	0	0
4/19/2024 21:47	62605	ENGL_T1	3	4	1	0.1	0.13	0.03	-0.88	-0.89	0	0	0	0	0	0
4/19/2024 21:47	60903	DONG_T2	19	0	-19	0.12	0	-0.12	0	0	0	0	0	0	0	0
4/19/2024 21:47	45402	WBLO_T2	1	2	1	0.8	0.2	-0.6	-0.91	-0.91	0	0	0	0	0	0
4/19/2024 21:47	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/19/2024 21:47	66505	SMAN_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/19/2024 21:47	66501	SMAN_T2	43	0	-43	0.16	0	-0.16	0	0	0	0	0	0	0	0
4/19/2024 21:47	67803	WLAN_T1	196	494	298	0.14	0.22	0.08	-0.93	-0.94	0	0	0	0	0	0
4/19/2024 21:47	60902	DONG_T2	4	0	-4	0.23	0	-0.23	0.45	0.44	0	0	0	0	0	0
4/19/2024 21:47	40505	CRES_T1	3	3	0	6.07	6.4	0.33	0	0	0	0	0	0	0	0
4/19/2024 21:47	46803	HEPB_T2	0	1	1	0	0.2	0.2	0.49	0.45	0	0	0	0	0	0
4/19/2024 21:47	67804	WLAN_T1	51	180	129	0.14	0.17	0.03	0	0	0	0	0	0	0	0
4/19/2024 21:47	50502	MECH_T1	1	1	0	2.7	3	0.3	0	0	0	0	0	0	0	0
4/19/2024 21:47	50506	MECH_T1	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
4/19/2024 21:48	51108	CARL_T1	19	50	31	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
4/19/2024 21:48	51104	CARL_T1	3	8	5	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/19/2024 21:48	51102	CARL_T1	128	136	8	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
4/19/2024 21:48	43801	SWIL_T1	30	59	29	0.36	0.31	-0.05	0	0	0	0	0	0	0	0
4/19/2024 21:48	63601	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/19/2024 21:48	63602	LETO_T1	151	217	66	0.33	0.46	0.13	-0.62	-0.61	0	0	0	0	0	0
4/19/2024 21:48	43802	SWIL_T1	0	0	0	0	0	0	-0.3	-0.31	1	1	0	600	600	0
4/19/2024 21:48	51107	CARL_T1	5	5	0	0.18	0.18	0	-0.24	-0.27	0	0	0	0	0	0
4/19/2024 21:48	51101	CARL_T1	20	20	0	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
4/19/2024 21:49	67804	WLAN_T1	51	180	129	0.14	0.17	0.03	-2.32	-2.34	0	0	0	0	0	0
4/19/2024 21:49	54202	PENN_T2	317	264	-53	0.24	0.19	-0.05	0	0	0	0	0	0	0	0
4/19/2024 21:49	66703	STRA_T1	0	4	4	0	0.18	0.18	-0.36	-0.44	0	0	0	0	0	0
4/19/2024 21:49	67801	WLAN_T1	8	30	22	0.11	0.14	0.03	0.84	0.85	0	0	0	0	0	0
4/19/2024 21:49	65502	MOJO_T2	382	302	-80	0.49	0.3	-0.19	0	0	0	0	0	0	0	0
4/19/2024 21:49	59101	WALK_T2	0	0	0	0	0	0	1.3	1.09	0	0	0	0	0	0
4/19/2024 21:49	54206	PENN_T2	211	133	-78	0.22	0.23	0.01	-0.08	-0.05	0	0	0	0	0	0
4/19/2024 21:49	67803	WLAN_T1	196	494	298	0.14	0.22	0.08	-1.86	-1.88	0	0	0	0	0	0
4/19/2024 21:49	67805	WLAN_T1	540	575	35	0.55	0.59	0.04	-1.6	-1.57	0	0	0	0	0	0
4/19/2024 21:49	60802	BUCK_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
4/19/2024 21:49	67802	WLAN_T1	14	27	13	0.26	0.33	0.07	0	0	0	0	0	0	0	0
4/19/2024 21:49	54204	PENN_T2	3	3	0	0.67	0.6	-0.07	0	0	0	0	0	0	0	0
4/19/2024 21:49	66503	MOJO_T2	359	216	-143	0.37	0.2	-0.17	-0.65	-0.64	0	0	0	0	0	0
4/19/2024 21:49	64902	MILL_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
4/19/2024 21:50	40502	CRES_T2	19	14	-5	0.32	0.46	0.14	0.49	0.51	0	0	0	0	0	0
4/19/2024 21:50	40501	CRES_T2	5	9	4	0.24	0.3	0.06	0	0	0	0	0	0	0	0
4/19/2024 21:50	67605	WARW_T1	39	40	1	0.54	0.57	0.03	0	0	0	0	0	0	0	0
4/19/2024 21:50	61704	ELIZ_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:50	45702	LIND_T2	1	1	0	0.8	1	0.2	-0.6	-0.58	0	0	0	0	0	0
4/19/2024 21:50	61702	ELIZ_T2	0	0	0	0	0	0	-1.04	-1.05	1	1	0	300	300	0
4/19/2024 21:50	67604	WARW_T1	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
4/19/2024 21:51	43802	SWIL_T1	0	0	0	0	0	0	-0.3	-0.31	1	1	0	600	600	0
4/19/2024 21:51	67805	WLAN_T1	540	575	35	0.55	0.59	0.04	-1.6	-1.57	0	0	0	0	0	0
4/19/2024 21:51	67804	WLAN_T1	51	180	129	0.14	0.17	0.03	0	0	0	0	0	0	0	0
4/19/2024 21:51	45702	LIND_T2	1	1	0	0.8	1	0.2	-0.6	-0.58	0	0	0	0	0	0
4/19/2024 21:51	67802	WLAN_T1	14	27	13	0.26	0.33	0.07	0	0	0	0	0	0	0	0
4/19/2024 21:51	43801	SWIL_T1	30	59	29	0.36	0.31	-0.05	0	0	0	0	0	0	0	0
4/19/2024 21:51	67803	WLAN_T1	196	494	298	0.14	0.22	0.08	-0.93	-0.94	0	0	0	0	0	0
4/19/2024 21:51	67801	WLAN_T1	8	30	22	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/19/2024 21:52	59002	MIFF_T1	0	1	1	0	0.3	0.3	0.45	0.51	0	0	0	0	0	0
4/19/2024 21:52	59003	MIFF_T1	0	1	1	0	0.3	0.3	0.45	0.51	0	0	0	0	0	0
4/19/2024 21:54	59002	MIFF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 21:54	59003	MIFF_T1	0	1	1	0	0.3	0.3	0.51	0.32	0	0	0	0	0	0
4/19/2024 21:55	43801	SWIL_T1	30	59	29	0.36	0.31	-0.05	0	0	0	0	0	0	0	0
4/19/2024 21:55	43703	WILL_T1	26	0	-26	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/19/2024 21:55	43704	WILL_T1	1	1	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
4/19/2024 21:55	43705	WILL_T1	2	2	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
4/19/2024 21:55	43701	WILL_T1	1	0	-1	0.1	0	-0.1	0.09	0.02	0	0	0	0	0	0
4/19/2024 21:55	43802	SWIL_T1	0	0	0	0	0	0	-0.31	-0.32	1	1	0	600	600	0
4/19/2024 21:56	43802	SWIL_T1	0	0	0	0	0	0	-0.31	-0.32	1	1	0	600	600	0
4/19/2024 21:56	43801	SWIL_T1	30	59	29	0.36	0.31	-0.05	0	0	0	0	0	0	0	0
4/19/2024 22:03	65702	RVIL_T2	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
4/19/2024 22:09	50103	HARR_T3	2	2	0	0.5	0.75	0.25	-1.08	-1.09	1	1	0	1200	1200	0
4/19/2024 22:09	50202	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/19/2024 22:09	50201	HARR_T3	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/19/2024 22:09	50105	HARR_T3	6	6	0	5.88	5.82	-0.06	0	0	0	0	0	0	0	0
4/19/2024 22:25	62605	ENGL_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 22:25	62607	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/19/2024 22:25	62602	ENGL_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
4/19/2024 22:28	54201	PENN_T1	8	9	1	0.71	0.71	0	0	0	0	0	0	0	0	0
4/19/2024 22:28	54203	PENN_T1	18	18	0	0.84	0.91	0.07	0.57	0.53	0	0	0	0	0	0
4/19/2024 22:33	62605	ENGL_T1	4	0	-4	0.1	0	-0.1	-0.89	-0.91	0	0	0	0	0	0
4/19/2024 22:33	62607	ENGL_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/19/2024 22:49	17401	FOHI_T1	0	0	0	0	0	0	-1.08	-1.06	0	0	0	0	0	0
4/19/2024 22:51	67703	WERN_T2	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
4/19/2024 23:57	66901	SHIL_T2	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
4/19/2024 23:57	66902	SHIL_T2	0	0	0	0	0	0	-1.92	-1.92	0	0	0	0	0	0
4/20/2024 7:40	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 7:42	40702	FFLD_T1	2	6	4	0.1	0.13	0.03	-1.2	-1.27	1	1	0	1200	1200	0
4/20/2024 8:00	46801	HEPB_T2	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
4/20/2024 8:01	63804	HEMP_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
4/20/2024 8:01	63801	HEMP_T1	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
4/20/2024 8:06	67703	WERN_T2	0	0	0	0	0	0	-1.02	-1.07	1	1	0	900	900	0
4/20/2024 8:06	45902	AUBU_T1	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
4/20/2024 8:08	29402	BELT_T1	1	1	0	7.1	7.3	0.2	0	0	0	0	0	0	0	0
4/20/2024 8:08	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/20/2024 8:09	45902	AUBU_T1	0	0	0	0	0	0	-1.01	-1.08	0	0	0	0	0	0
4/20/2024 8:09	45901	AUBU_T1	0	0	0	0	0	0	1.07	1.03	0	0	0	0	0	0
4/20/2024 8:11	29402	BELT_T1	1	1	0	7.1	7.3	0.2	0	0	0	0	0	0	0	0
4/20/2024 8:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/20/2024 8:11	45902	AUBU_T1	0	0	0	0	0	0	-0.5	-0.54	0	0	0	0	0	0
4/20/2024 8:18	13503	MCMI_T2	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
4/20/2024 8:22	45902	AUBU_T1	0	0	0	0	0	0	-0.5	-0.54	0	0	0	0	0	0
4/20/2024 8:25	45902	AUBU_T1	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/20/2024 8:27	45902	AUBU_T1	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
4/20/2024 8:30	40101	HUNT_T2	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
4/20/2024 8:31	46506	LOHA_T1	0	1	1	0	0.3	0.3	-0.57	-0.58	0	0	0	0	0	0
4/20/2024 8:31	46504	LOHA_T1	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
4/20/2024 8:31	46801	HEPB_T2	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
4/20/2024 8:37	56802	BENV_T2	0	0	0	0	0	0	-3.03	-3.06	0	0	0	0	0	0
4/20/2024 8:38	56803	BENV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/20/2024 8:38	56801	BENV_T1	6	7	1	1.27	1.6	0.33	-0.86	-0.9	1	1	0	600	600	0
4/20/2024 8:38	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.5	0	0	0	0	0	0
4/20/2024 8:39	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
4/20/2024 8:39	56802	BENV_T2	0	0	0	0	0	0	-1.53	-1.56	0	0	0	0	0	0
4/20/2024 8:40	56802	BENV_T2	0	0	0	0	0	0	-1.53	-1.56	0	0	0	0	0	0
4/20/2024 8:40	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.5	0	0	0	0	0	0
4/20/2024 8:41	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.5	0	0	0	0	0	0
4/20/2024 8:42	56802	BENV_T2	0	0	0	0	0	0	-1.53	-1.56	0	0	0	0	0	0
4/20/2024 8:43	41504	FAIR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 8:43	41502	FAIR_T2	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
4/20/2024 8:43	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.5	0	0	0	0	0	0
4/20/2024 8:43	41501	FAIR_T2	1	0	-1	3.7	0	-3.7	0	0	0	0	0	0	0	0
4/20/2024 8:44	41504	FAIR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 8:44	41501	FAIR_T2	1	0	-1	3.7	0	-3.7	0	0	0	0	0	0	0	0
4/20/2024 8:44	41502	FAIR_T2	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
4/20/2024 8:45	44505	HAMI_T2	1	1	0	0.1	0.3	0.2	0.52	0.58	0	0	0	0	0	0
4/20/2024 8:45	40101	HUNT_T2	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
4/20/2024 8:45	44502	HAMI_T2	1	1	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
4/20/2024 8:46	40101	HUNT_T2	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
4/20/2024 8:49	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 8:49	65205	PRIN_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
4/20/2024 8:50	44505	HAMI_T2	1	1	0	0.1	0.3	0.2	0.26	0.29	0	0	0	0	0	0
4/20/2024 8:50	44502	HAMI_T2	1	1	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
4/20/2024 8:52	67703	WERN_T2	0	0	0	0	0	0	-1.06	-1.04	1	1	0	900	900	0
4/20/2024 8:52	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/20/2024 8:52	29402	BELT_T1	1	3	2	6.9	6.5	-0.4	0	0	0	0	0	0	0	0
4/20/2024 8:53	51108	CARL_T1	0	0	0	0	0	0	-0.53	-0.51	0	0	0	0	0	0
4/20/2024 8:55	29402	BELT_T1	1	3	2	6.9	6.5	-0.4	0	0	0	0	0	0	0	0
4/20/2024 8:55	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
4/20/2024 9:05	56501	ROCK_T2	1	2	1	1.9	1.3	-0.6	-0.02	-0.02	0	0	0	0	0	0
4/20/2024 9:06	24902	WHHA_T1	3	7	4	0.97	1	0.03	0	0	0	0	0	0	0	0
4/20/2024 9:06	56501	ROCK_T2	1	2	1	1.9	1.3	-0.6	-0.01	-0.01	0	0	0	0	0	0
4/20/2024 9:07	45902	AUBU_T1	0	1	1	0	1.1	1.1	-0.5	-0.5	0	0	0	0	0	0
4/20/2024 9:07	67605	WARW_T1	2	6	4	0.25	0.22	-0.03	-1	-0.97	0	0	0	0	0	0
4/20/2024 9:07	60801	BUCK_T1	0	0	0	0	0	0	-1.78	-1.76	2	2	0	1200	1200	0
4/20/2024 9:08	45902	AUBU_T1	0	1	1	0	1.1	1.1	-0.5	-0.49	0	0	0	0	0	0
4/20/2024 9:09	56501	ROCK_T2	1	2	1	1.9	1.3	-0.6	-0.01	-0.01	0	0	0	0	0	0
4/20/2024 9:09	45902	AUBU_T1	0	1	1	0	1.1	1.1	-0.5	-0.49	0	0	0	0	0	0
4/20/2024 9:10	59101	WALK_T2	0	0	0	0	0	0	1.36	1.15	0	0	0	0	0	0
4/20/2024 9:11	53501	EVIL_T2	5	8	3	0.5	0.51	0.01	0	0	0	0	0	0	0	0
4/20/2024 9:11	53502	EVIL_T2	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
4/20/2024 9:12	40101	HUNT_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
4/20/2024 9:12	60801	BUCK_T1	0	0	0	0	0	0	-0.88	-0.89	1	1	0	600	600	0
4/20/2024 9:12	45902	AUBU_T1	0	1	1	0	1.1	1.1	-0.5	-0.49	0	0	0	0	0	0
4/20/2024 9:12	49804	UNIV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/20/2024 9:12	49803	UNIV_T1	0	1	1	0	0.3	0.3	-1.24	-1.2	0	0	0	0	0	0
4/20/2024 9:13	26401	INOR_T1	1	1	0	8.7	9.1	0.4	0.34	0.35	0	0	0	0	0	0
4/20/2024 9:14	45902	AUBU_T1	0	1	1	0	1.1	1.1	-0.5	-0.49	0	0	0	0	0	0
4/20/2024 9:14	12002	HATF_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/20/2024 9:14	12006	HATF_T1	0	0	0	0	0	0	0.43	0.49	0	0	0	0	0	0
4/20/2024 9:15	40101	HUNT_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
4/20/2024 9:17	46801	HEPB_T2	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
4/20/2024 9:17	46803	HEPB_T2	0	3	3	0	1.37	1.37	0	0	0	0	0	0	0	0
4/20/2024 9:17	40101	HUNT_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
4/20/2024 9:18	52004	LING_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
4/20/2024 9:19	41902	REED_T1	0	1	1	0	0	0	0.81	0.85	0	0	0	0	0	0
4/20/2024 9:21	28703	HAML_T2	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/20/2024 9:21	28701	HAML_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 9:21	28704	HAML_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/20/2024 9:21	41902	REED_T1	0	1	1	0	0	0	0.81	0.85	0	0	0	0	0	0
4/20/2024 9:22	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/20/2024 9:22	20403	ASHF_T2	0	0	0	0	0	0	0.25	0.14	0	0	0	0	0	0
4/20/2024 9:24	56802	BENV_T2	0	0	0	0	0	0	-1.55	-1.47	0	0	0	0	0	0
4/20/2024 9:24	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/20/2024 9:24	45902	AUBU_T1	1	3	2	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
4/20/2024 9:24	20403	ASHF_T2	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
4/20/2024 9:24	45901	AUBU_T1	0	0	0	0	0	0	1.01	1.05	0	0	0	0	0	0
4/20/2024 9:25	29402	BELT_T1	1	1	0	6.4	6.9	0.5	0	0	0	0	0	0	0	0
4/20/2024 9:25	45902	AUBU_T1	1	3	2	0.9	0.7	-0.2	-0.49	-0.48	0	0	0	0	0	0
4/20/2024 9:25	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/20/2024 9:27	63404	HONY_T1	6	93	87	0.12	0.22	0.1	0	0	0	0	0	0	0	0
4/20/2024 9:27	63401	HONY_T1	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
4/20/2024 9:30	20603	GRWO_T2	1	4	3	4.9	0.45	-4.45	0.33	0.37	0	0	0	0	0	0
4/20/2024 9:30	45902	AUBU_T1	1	4	3	1.1	0.58	-0.52	-0.49	-0.48	0	0	0	0	0	0
4/20/2024 9:32	13503	MCMI_T2	15	3	-12	0.27	0.6	0.33	-0.99	-0.99	0	0	0	0	0	0
4/20/2024 9:36	40303	TAMA_T3	0	0	0	0	0	0	1.85	1.94	0	0	0	0	0	0
4/20/2024 9:36	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 9:36	40302	TAMA_T3	5	7	2	0.2	0.2	0	0	0	0	0	0	0	0	0
4/20/2024 9:37	48302	ORWI_T2	2	2	0	1.25	1.25	0	0	0	0	0	0	0	0	0
4/20/2024 9:38	45902	AUBU_T1	1	4	3	1.1	0.58	-0.52	-0.48	-0.49	0	0	0	0	0	0
4/20/2024 9:41	45902	AUBU_T1	1	4	3	1.1	0.58	-0.52	-0.48	-0.49	0	0	0	0	0	0
4/20/2024 9:42	24901	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 9:42	24902	WHHA_T1	7	2	-5	0.53	1.5	0.97	0	0	0	0	0	0	0	0
4/20/2024 9:43	44502	HAMI_T2	2	4	2	1.6	1.43	-0.17	-0.98	-0.99	0	0	0	0	0	0
4/20/2024 9:43	44505	HAMI_T2	2	3	1	0.45	0.63	0.18	0	0	0	0	0	0	0	0
4/20/2024 9:45	52004	LING_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
4/20/2024 9:45	20603	GRWO_T2	3	3	0	0.57	0.23	-0.34	0.37	0.37	0	0	0	0	0	0
4/20/2024 9:46	45902	AUBU_T1	3	4	1	0.7	0.73	0.03	-0.48	-0.49	0	0	0	0	0	0
4/20/2024 9:47	58401	MORO_T1	0	0	0	0	0	0	-1.25	-1.25	1	1	0	600	600	0
4/20/2024 9:48	13303	ORVI_T1	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
4/20/2024 9:49	45702	LIND_T2	1	2	1	0.2	0.3	0.1	-0.58	-0.59	0	0	0	0	0	0
4/20/2024 9:53	67703	WERN_T2	0	0	0	0	0	0	-1.04	-1.02	1	1	0	900	900	0
4/20/2024 9:53	20402	ASHF_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/20/2024 9:53	20403	ASHF_T2	0	3	3	0	0.3	0.3	0.08	0.06	0	0	0	0	0	0
4/20/2024 9:54	20401	ASHF_T2	0	0	0	0	0	0	-0.46	-0.4	0	0	0	0	0	0
4/20/2024 9:54	20402	ASHF_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/20/2024 9:54	67703	WERN_T2	0	0	0	0	0	0	-1.04	-1.02	1	1	0	900	900	0
4/20/2024 9:54	20403	ASHF_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
4/20/2024 9:55	20403	ASHF_T2	0	3	3	0	0.3	0.3	0.08	0.06	0	0	0	0	0	0
4/20/2024 9:55	67605	WARW_T1	9	15	6	0.28	0.5	0.22	-0.93	-0.92	0	0	0	0	0	0
4/20/2024 9:55	67603	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 9:55	20402	ASHF_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/20/2024 10:00	45902	AUBU_T1	4	4	0	0.5	0.95	0.45	-0.49	-0.52	0	0	0	0	0	0
4/20/2024 10:00	22405	MORG_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
4/20/2024 10:00	62102	ELAN_T1	0	0	0	0	0	0	0.53	0.61	0	0	0	0	0	0
4/20/2024 10:00	63804	HEMP_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
4/20/2024 10:00	65702	RVIL_T2	0	0	0	0	0	0	-1.09	-1.06	1	1	0	600	600	0
4/20/2024 10:00	62105	ELAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/20/2024 10:00	12505	MITR_T2	0	1	1	0	0.5	0.5	0.17	0.21	0	0	0	0	0	0
4/20/2024 10:00	48302	ORWI_T2	2	2	0	1.25	1.2	-0.05	-0.09	-0.07	0	0	0	0	0	0
4/20/2024 10:00	60501	NMAN_T2	3	3	0	3.83	4.3	0.47	0	0	0	0	0	0	0	0
4/20/2024 10:00	42902	MIDD_T2	328	390	62	0.68	0.74	0.06	0	0	0	0	0	0	0	0
4/20/2024 10:00	66502	SMAN_T2	2	1	-1	0.25	0.2	-0.05	-0.16	-0.23	0	0	0	0	0	0
4/20/2024 10:00	42903	MIDD_T2	258	269	11	0.57	0.64	0.07	-0.15	-0.23	0	0	0	0	0	0
4/20/2024 10:00	12502	MITR_T2	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
4/20/2024 10:00	44505	HAMI_T2	3	3	0	0.57	0.53	-0.04	0.28	0.28	0	0	0	0	0	0
4/20/2024 10:00	60801	BUCK_T1	0	3	3	0	0.17	0.17	-1.74	-1.72	2	2	0	1200	1200	0
4/20/2024 10:00	59102	WALK_T2	1	6	5	0.6	0.42	-0.18	-0.41	-0.42	1	1	0	600	600	0
4/20/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	-1.58	-1.66	0	0	0	0	0	0
4/20/2024 10:00	58003	WCAR_T1	0	1	1	0	0.2	0.2	-0.18	-0.19	1	1	0	600	600	0
4/20/2024 10:00	53903	HALI_T2	4	5	1	0.7	0.62	-0.08	-0.2	-0.15	0	0	0	0	0	0
4/20/2024 10:00	58803	COCO_T1	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
4/20/2024 10:00	45501	DERR_T2	0	2	2	0	0.55	0.55	-0.67	-0.62	2	2	0	1800	1800	0
4/20/2024 10:00	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 10:00	52001	LING_T1	0	0	0	0	0	0	-1.12	-1.11	0	0	0	0	0	0
4/20/2024 10:00	12605	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 10:00	59202	THOM_T1	3	34	31	0.37	0.38	0.01	0	0	0	0	0	0	0	0
4/20/2024 10:00	45702	LIND_T2	1	1	0	0.2	0.9	0.7	-0.59	-0.59	0	0	0	0	0	0
4/20/2024 10:00	65205	PRIN_T1	1	3	2	1.9	0.7	-1.2	0	0	0	0	0	0	0	0
4/20/2024 10:00	65001	NEFF_T2	9	57	48	0.16	0.15	-0.01	-1.27	-1.36	1	1	0	1200	1200	0
4/20/2024 10:00	42002	MNVL_T2	1	1	0	4.1	3.9	-0.2	0	0	0	0	0	0	0	0
4/20/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
4/20/2024 10:00	16102	BING_T2	0	2	2	0	0.5	0.5	-0.13	-0.09	0	0	0	0	0	0
4/20/2024 10:00	25603	ARRO_T1	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
4/20/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.49	-0.44	1	1	0	600	600	0
4/20/2024 10:00	50503	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 10:00	11805	FRAN_T1	0	0	0	0	0	0	-1.76	-1.77	1	1	0	1200	1200	0
4/20/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
4/20/2024 10:00	64801	MONE_T2	0	1	1	0	0.2	0.2	0.17	0.21	0	0	0	0	0	0
4/20/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
4/20/2024 10:00	64303	LINC_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 10:00	52004	LING_T2	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
4/20/2024 10:00	67002	STHI_T2	1	3	2	0.2	0.2	0	0.55	0.59	0	0	0	0	0	0
4/20/2024 10:00	43101	SMIL_T2	2	4	2	0.65	0.58	-0.07	0	0	0	0	0	0	0	0
4/20/2024 10:00	12604	MACA_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
4/20/2024 10:00	65003	NEFF_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/20/2024 10:00	65004	NEFF_T2	2	3	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/20/2024 10:00	40701	FFLD_T1	4	6	2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 10:00	53901	HALI_T2	1	2	1	0.3	0.55	0.25	-1.08	-1.09	0	0	0	0	0	0
4/20/2024 10:00	43104	SMIL_T2	0	0	0	0	0	0	-0.87	-0.86	1	1	0	300	300	0
4/20/2024 10:00	45602	WOOL_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
4/20/2024 10:00	62607	ENGL_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/20/2024 10:00	10805	CHHI_T2	1	4	3	7.7	1.98	-5.72	-1.17	-1.2	0	0	0	0	0	0
4/20/2024 10:00	40702	FFLD_T1	2	9	7	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/20/2024 10:00	16402	MOPO_T1	0	1	1	0	0.2	0.2	0.05	0.07	0	0	0	0	0	0
4/20/2024 10:00	66303	MCGO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/20/2024 10:00	44502	HAMI_T2	4	6	2	1.43	1.12	-0.31	0	0	0	0	0	0	0	0
4/20/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	-0.8	-0.77	0	0	0	0	0	0
4/20/2024 10:00	44201	POIN_T1	3	0	-3	0.13	0	-0.13	-1.51	-1.5	1	1	0	1200	1200	0
4/20/2024 10:00	48303	ORWI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/20/2024 10:00	16103	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/20/2024 10:00	40505	CRES_T1	3	3	0	4.97	4.3	-0.67	0.45	0.39	0	0	0	0	0	0
4/20/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
4/20/2024 10:00	42001	MNVL_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
4/20/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
4/20/2024 10:00	53501	EVIL_T2	18	20	2	0.67	0.58	-0.09	-0.82	-0.78	0	0	0	0	0	0
4/20/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-0.91	-0.87	0	0	0	0	0	0
4/20/2024 10:00	12807	MICK_T1	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
4/20/2024 10:00	65005	NEFF_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/20/2024 10:00	53902	HALI_T2	3	2	-1	1.83	2.85	1.02	0	0	0	0	0	0	0	0
4/20/2024 10:00	50502	MECH_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/20/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.6	-0.58	2	2	0	1500	1500	0
4/20/2024 10:00	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 10:00	67703	WERN_T2	0	1	1	0	0.3	0.3	-1.04	-1.02	1	1	0	900	900	0
4/20/2024 10:00	13503	MCMI_T2	1	0	-1	0.2	0	-0.2	-0.49	-0.01	0	0	0	0	0	0
4/20/2024 10:00	59101	WALK_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
4/20/2024 10:00	51002	NHAR_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/20/2024 10:00	14601	SWHI_T1	0	1	1	0	0.1	0.1	-1.02	-1	0	0	0	0	0	0
4/20/2024 10:00	50501	MECH_T1	4	4	0	0.48	0.35	-0.13	0	0	0	0	0	0	0	0
4/20/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.05	0.98	0	0	0	0	0	0
4/20/2024 10:00	64305	LINC_T1	0	1	1	0	0.2	0.2	-0.64	-0.65	0	0	0	0	0	0
4/20/2024 10:00	56601	HAMP_T1	5	9	4	0.24	0.36	0.12	-1.85	-1.87	0	0	0	0	0	0
4/20/2024 10:00	40101	HUNT_T2	0	3	3	0	0.2	0.2	-2.93	-2.93	0	0	0	0	0	0
4/20/2024 10:00	11804	FRAN_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/20/2024 10:00	60101	COCA_T1	1	2	1	0.2	0.35	0.15	0.19	0.3	0	0	0	0	0	0
4/20/2024 10:00	58401	MORO_T1	0	2	2	0	0.2	0.2	-1.25	-1.24	1	1	0	600	600	0
4/20/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-1.39	-1.37	1	1	0	900	900	0
4/20/2024 10:00	46001	BERW_T1	0	1	1	0	0	0	0.46	0.45	0	0	0	0	0	0
4/20/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.8	-0.78	0	0	0	0	0	0
4/20/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	-1.04	-1	2	2	0	1200	1200	0
4/20/2024 10:00	46005	BERW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/20/2024 10:00	10801	CHHI_T1	4	6	2	0.53	0.52	-0.01	-1.62	-1.65	2	2	0	1500	1500	0
4/20/2024 10:00	59201	THOM_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
4/20/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.8	-0.74	1	1	0	1200	1200	0
4/20/2024 10:00	64904	MILL_T1	0	0	0	0	0	0	-0.63	-0.6	0	0	0	0	0	0
4/20/2024 10:00	54602	SUMM_T2	0	0	0	0	0	0	-2.47	-2.51	1	1	0	600	600	0
4/20/2024 10:00	50505	MECH_T1	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
4/20/2024 10:00	42901	MIDD_T2	720	818	98	0.53	0.63	0.1	0	0	0	0	0	0	0	0
4/20/2024 10:00	63801	HEMP_T1	0	2	2	0	0.35	0.35	-0.02	-0.06	0	0	0	0	0	0
4/20/2024 10:00	51004	NHAR_T1	14	14	0	0.72	0.79	0.07	-0.46	-0.48	0	0	0	0	0	0
4/20/2024 10:00	53801	MBRG_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/20/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-0.79	-0.79	0	0	0	0	0	0
4/20/2024 10:00	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/20/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
4/20/2024 10:00	15001	BLMO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 10:00	15103	UPHA_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
4/20/2024 10:00	14603	SWHI_T1	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/20/2024 10:00	60504	NMAN_T2	1	2	1	0.6	0.65	0.05	0	0	0	0	0	0	0	0
4/20/2024 10:00	12601	MACA_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/20/2024 10:00	40703	FFLD_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
4/20/2024 10:01	45702	LIND_T2	1	1	0	0.2	0.9	0.7	-0.59	-0.59	0	0	0	0	0	0
4/20/2024 10:01	46506	LOHA_T1	1	1	0	0.3	0.4	0.1	-0.54	-0.57	0	0	0	0	0	0
4/20/2024 10:01	46501	LOHA_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/20/2024 10:01	46504	LOHA_T1	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
4/20/2024 10:03	41902	REED_T1	1	0	-1	0.3	0	-0.3	0.74	0.79	0	0	0	0	0	0
4/20/2024 10:05	14404	SSLA_T1	1	1	0	4.5	4.5	0	0	0	0	0	0	0	0	0
4/20/2024 10:05	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 10:05	46501	LOHA_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/20/2024 10:05	46504	LOHA_T1	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
4/20/2024 10:05	46506	LOHA_T1	1	1	0	0.3	0.4	0.1	-0.54	-0.57	0	0	0	0	0	0
4/20/2024 10:05	14403	SSLA_T1	1	1	0	0.2	0.6	0.4	0.46	0.49	0	0	0	0	0	0
4/20/2024 10:05	58401	MORO_T1	0	2	2	0	0.2	0.2	-1.25	-1.24	1	1	0	600	600	0
4/20/2024 10:06	46504	LOHA_T1	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
4/20/2024 10:06	46506	LOHA_T1	1	1	0	0.3	0.4	0.1	-0.54	-0.57	0	0	0	0	0	0
4/20/2024 10:06	46501	LOHA_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/20/2024 10:06	64302	LINC_T2	0	0	0	0	0	0	0.84	0.84	0	0	0	0	0	0
4/20/2024 10:07	46501	LOHA_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/20/2024 10:07	67603	WARW_T1	1	0	-1	0.4	0	-0.4	-0.08	-0.06	0	0	0	0	0	0
4/20/2024 10:07	50701	SMEC_T1	1	4	3	0.8	0.5	-0.3	-2.13	-2.16	1	1	0	900	900	0
4/20/2024 10:07	46506	LOHA_T1	1	1	0	0.3	0.4	0.1	-0.54	-0.57	0	0	0	0	0	0
4/20/2024 10:07	40303	TAMA_T3	0	0	0	0	0	0	1.99	1.95	0	0	0	0	0	0
4/20/2024 10:07	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/20/2024 10:07	44601	SALE_T2	1	1	0	0.3	0.3	0	-0.13	-0.14	0	0	0	0	0	0
4/20/2024 10:07	46504	LOHA_T1	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
4/20/2024 10:07	67703	WERN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/20/2024 10:07	40302	TAMA_T3	3	5	2	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
4/20/2024 10:07	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/20/2024 10:07	60801	BUCK_T1	0	3	3	0	0.17	0.17	-0.87	-0.86	1	1	0	600	600	0
4/20/2024 10:07	67605	WARW_T1	14	15	1	0.31	0.53	0.22	0	0	0	0	0	0	0	0
4/20/2024 10:07	13905	SEID_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/20/2024 10:07	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 10:07	13901	SEID_T1	0	0	0	0	0	0	-0.89	0.52	1	0	-1	1200	0	-1200
4/20/2024 10:07	58401	MORO_T1	0	2	2	0	0.2	0.2	-1.25	-1.24	1	1	0	600	600	0
4/20/2024 10:07	53501	EVIL_T2	18	20	2	0.67	0.58	-0.09	-0.82	-0.78	0	0	0	0	0	0
4/20/2024 10:07	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 10:08	57101	SPHI_T2	6	6	0	0.77	0.85	0.08	0	0	0	0	0	0	0	0
4/20/2024 10:08	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
4/20/2024 10:08	10801	CHHI_T1	4	6	2	0.53	0.52	-0.01	-1.62	-1.65	2	2	0	1500	1500	0
4/20/2024 10:08	60701	BREC_T1	0	2	2	0	0.4	0.4	-0.46	-0.48	1	1	0	600	600	0
4/20/2024 10:08	45602	WOOL_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
4/20/2024 10:08	54001	SDLE_T1	3	4	1	0.53	0.95	0.42	0	0	1	1	0	600	600	0
4/20/2024 10:08	63306	GREE_T1	0	0	0	0	0	0	-2.15	-2.13	1	1	0	900	900	0
4/20/2024 10:08	59102	WALK_T2	1	6	5	0.6	0.42	-0.18	-0.42	-0.39	1	1	0	600	600	0
4/20/2024 10:08	57104	SPHI_T2	1	2	1	6.6	0.5	-6.1	-1.21	-1.19	1	1	0	900	900	0
4/20/2024 10:08	22102	EDEL_T1	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
4/20/2024 10:08	29402	BELT_T1	1	3	2	7.2	2.6	-4.6	0	0	0	0	0	0	0	0
4/20/2024 10:08	56802	BENV_T2	0	1	1	0	0.2	0.2	-1.5	-1.53	0	0	0	0	0	0
4/20/2024 10:08	53501	EVIL_T2	18	20	2	0.67	0.58	-0.09	-0.78	-0.78	0	0	0	0	0	0
4/20/2024 10:08	59101	WALK_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
4/20/2024 10:08	57106	SPHI_T2	2	3	1	0.8	0.67	-0.13	0	0	0	0	0	0	0	0
4/20/2024 10:09	67703	WERN_T2	0	1	1	0	0.3	0.3	-1.02	-1.01	1	1	0	900	900	0
4/20/2024 10:09	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 10:09	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 10:09	20402	ASHF_T2	2	2	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/20/2024 10:09	49804	UNIV_T1	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
4/20/2024 10:09	49803	UNIV_T1	1	0	-1	0.1	0	-0.1	-1.22	-1.17	0	0	0	0	0	0
4/20/2024 10:09	20403	ASHF_T2	2	4	2	0.15	0.5	0.35	0.12	0.12	0	0	0	0	0	0
4/20/2024 10:09	42302	MOWR_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
4/20/2024 10:09	45902	AUBU_T1	4	4	0	0.5	0.95	0.45	-0.52	-0.51	0	0	0	0	0	0
4/20/2024 10:09	56802	BENV_T2	0	1	1	0	0.2	0.2	-1.5	-1.53	0	0	0	0	0	0
4/20/2024 10:10	20403	ASHF_T2	2	4	2	0.15	0.5	0.35	0	0	0	0	0	0	0	0
4/20/2024 10:10	14404	SSLA_T1	1	1	0	4.5	4.5	0	0	0	0	0	0	0	0	0
4/20/2024 10:10	67703	WERN_T2	0	1	1	0	0.3	0.3	-2.05	-2.02	2	2	0	1800	1800	0
4/20/2024 10:10	14403	SSLA_T1	1	1	0	0.2	0.6	0.4	0.49	0.48	0	0	0	0	0	0
4/20/2024 10:10	67605	WARW_T1	14	15	1	0.31	0.53	0.22	-2.77	-2.51	0	0	0	0	0	0
4/20/2024 10:10	20402	ASHF_T2	2	2	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/20/2024 10:10	15001	BLMO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 10:10	45901	AUBU_T1	0	0	0	0	0	0	1.03	1.02	0	0	0	0	0	0
4/20/2024 10:10	20401	ASHF_T2	0	2	2	0	0.1	0.1	-0.4	-0.45	0	0	0	0	0	0
4/20/2024 10:10	60802	BUCK_T2	0	0	0	0	0	0	0.24	0.28	0	0	0	0	0	0
4/20/2024 10:10	60801	BUCK_T1	0	3	3	0	0.17	0.17	-0.86	-0.86	1	1	0	600	600	0
4/20/2024 10:10	67603	WARW_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/20/2024 10:10	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 10:10	45902	AUBU_T1	4	4	0	0.5	0.95	0.45	-1.57	-1.54	0	0	0	0	0	0
4/20/2024 10:11	67703	WERN_T2	0	1	1	0	0.3	0.3	-1.02	-1.01	1	1	0	900	900	0
4/20/2024 10:11	45902	AUBU_T1	4	4	0	0.5	0.95	0.45	-0.52	-0.51	0	0	0	0	0	0
4/20/2024 10:11	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 10:11	20403	ASHF_T2	2	4	2	0.15	0.5	0.35	0.12	0.12	0	0	0	0	0	0
4/20/2024 10:11	20402	ASHF_T2	2	2	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/20/2024 10:11	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 10:11	45901	AUBU_T1	0	0	0	0	0	0	1.03	1.02	0	0	0	0	0	0
4/20/2024 10:12	20601	GRWO_T2	3	1	-2	0.23	0.1	-0.13	0.36	0.4	0	0	0	0	0	0
4/20/2024 10:12	56802	BENV_T2	0	1	1	0	0.2	0.2	-1.5	-1.53	0	0	0	0	0	0
4/20/2024 10:14	53502	EVIL_T2	0	0	0	0	0	0	0.66	0.58	0	0	0	0	0	0
4/20/2024 10:14	25402	LAHA_T2	0	0	0	0	0	0	-0.51	-0.45	0	0	0	0	0	0
4/20/2024 10:14	53501	EVIL_T2	18	20	2	0.67	0.58	-0.09	0	0	0	0	0	0	0	0
4/20/2024 10:14	51401	LYKE_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
4/20/2024 10:15	46801	HEPB_T2	2	2	0	0.4	0.55	0.15	0.56	0.58	0	0	0	0	0	0
4/20/2024 10:15	44502	HAMI_T2	5	5	0	1.28	1.08	-0.2	-0.96	-0.96	0	0	0	0	0	0
4/20/2024 10:15	46803	HEPB_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/20/2024 10:15	26704	HEML_T2	1	0	-1	0.1	0	-0.1	-0.88	-0.86	1	1	0	1200	1200	0
4/20/2024 10:15	44505	HAMI_T2	3	1	-2	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/20/2024 10:16	46801	HEPB_T2	2	2	0	0.4	0.55	0.15	0.56	0.58	0	0	0	0	0	0
4/20/2024 10:16	12605	MACA_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
4/20/2024 10:16	12601	MACA_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
4/20/2024 10:16	12604	MACA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/20/2024 10:16	12602	MACA_T1	0	1	1	0	0.5	0.5	-0.19	-0.32	0	0	0	0	0	0
4/20/2024 10:16	46803	HEPB_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/20/2024 10:17	55002	NEWP_T1	7	7	0	0.8	0.89	0.09	0	0	0	0	0	0	0	0
4/20/2024 10:17	51401	LYKE_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
4/20/2024 10:17	52004	LING_T2	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
4/20/2024 10:17	46803	HEPB_T2	1	2	1	0.1	0.15	0.05	0.42	0.45	0	0	0	0	0	0
4/20/2024 10:17	46801	HEPB_T2	2	2	0	0.4	0.55	0.15	0.56	0.58	0	0	0	0	0	0
4/20/2024 10:17	55001	NEWP_T1	1	5	4	1	0.64	-0.36	-0.27	-0.26	0	0	0	0	0	0
4/20/2024 10:18	43202	MVIL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/20/2024 10:18	63202	MGTN_T2	0	0	0	0	0	0	0.63	0.67	0	0	0	0	0	0
4/20/2024 10:18	43201	MVIL_T2	0	0	0	0	0	0	-0.37	-0.4	0	0	0	0	0	0
4/20/2024 10:19	66502	SMAN_T2	0	1	1	0	0.2	0.2	-0.23	-0.17	0	0	0	0	0	0
4/20/2024 10:19	66504	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/20/2024 10:20	66504	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/20/2024 10:20	66502	SMAN_T2	0	1	1	0	0.2	0.2	-0.23	-0.17	0	0	0	0	0	0
4/20/2024 10:20	55003	NEWP_T2	8	12	4	0.29	0.44	0.15	-1	-1.01	1	1	0	600	600	0
4/20/2024 10:21	67203	TEHI_T1	0	0	0	0	0	0	0.93	0.92	0	0	0	0	0	0
4/20/2024 10:21	55002	NEWP_T1	7	7	0	0.8	0.89	0.09	0	0	0	0	0	0	0	0
4/20/2024 10:21	67201	TEHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/20/2024 10:21	55001	NEWP_T1	1	5	4	1	0.64	-0.36	-0.27	-0.26	0	0	0	0	0	0
4/20/2024 10:22	65205	PRIN_T1	1	3	2	1.9	0.7	-1.2	0	0	0	0	0	0	0	0
4/20/2024 10:23	10801	CHHI_T1	6	1	-5	0.52	0.2	-0.32	-1.65	-1.25	2	1	-1	1500	900	-600
4/20/2024 10:25	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/20/2024 10:25	29402	BELT_T1	2	3	1	3.65	2.8	-0.85	0	0	0	0	0	0	0	0
4/20/2024 10:25	45501	DERR_T2	1	2	1	0.3	0.7	0.4	-0.59	-0.74	2	2	0	1800	1800	0
4/20/2024 10:27	54505	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/20/2024 10:27	67603	WARW_T1	0	1	1	0	0.2	0.2	-0.06	-0.09	0	0	0	0	0	0
4/20/2024 10:27	54504	ENOL_T2	1	0	-1	0.3	0	-0.3	-0.97	-0.96	1	1	0	600	600	0
4/20/2024 10:27	67605	WARW_T1	15	13	-2	0.5	0.52	0.02	0	0	0	0	0	0	0	0
4/20/2024 10:27	60101	COCA_T1	2	2	0	0.3	0.4	0.1	0.21	0.25	0	0	0	0	0	0
4/20/2024 10:28	28403	HART_T2	0	0	0	0	0	0	-0.99	-0.98	1	1	0	900	900	0
4/20/2024 10:28	29402	BELT_T1	2	3	1	3.65	2.8	-0.85	0	0	0	0	0	0	0	0
4/20/2024 10:28	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/20/2024 10:28	63302	GREE_T1	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
4/20/2024 10:29	12003	HATF_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
4/20/2024 10:29	12002	HATF_T1	1	2	1	0.4	0.2	-0.2	-0.23	-0.21	0	0	0	0	0	0
4/20/2024 10:29	41801	GOCI_T2	92	174	82	0.31	0.4	0.09	0	0	0	0	0	0	0	0
4/20/2024 10:29	12007	HATF_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/20/2024 10:29	12006	HATF_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/20/2024 10:29	12005	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 10:30	47001	HUGH_T2	0	2	2	0	0.15	0.15	0	0	1	1	0	900	900	0
4/20/2024 10:31	47001	HUGH_T2	0	2	2	0	0.15	0.15	0	0	1	1	0	900	900	0
4/20/2024 10:31	45702	LIND_T2	1	2	1	0.9	0.6	-0.3	-0.59	-0.57	0	0	0	0	0	0
4/20/2024 10:31	41801	GOCI_T2	127	192	65	0.34	0.42	0.08	0	0	0	0	0	0	0	0
4/20/2024 10:32	47001	HUGH_T2	0	2	2	0	0.15	0.15	0	0	1	1	0	900	900	0
4/20/2024 10:33	65503	MOJO_T2	2	3	1	0.35	0.9	0.55	-0.54	-0.48	0	0	0	0	0	0
4/20/2024 10:33	41902	REED_T1	0	0	0	0	0	0	0.8	0.83	0	0	0	0	0	0
4/20/2024 10:33	45702	LIND_T2	1	2	1	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
4/20/2024 10:33	45701	LIND_T2	0	0	0	0	0	0	-1.16	-1.14	0	0	0	0	0	0
4/20/2024 10:34	55002	NEWP_T1	6	10	4	0.97	1.02	0.05	-0.23	-0.19	0	0	0	0	0	0
4/20/2024 10:34	12601	MACA_T1	1	1	0	0.8	1.6	0.8	0.68	0.67	0	0	0	0	0	0
4/20/2024 10:34	12605	MACA_T1	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/20/2024 10:34	12603	MACA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/20/2024 10:34	12602	MACA_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/20/2024 10:34	55001	NEWP_T1	5	7	2	0.58	0.76	0.18	0	0	0	0	0	0	0	0
4/20/2024 10:34	12604	MACA_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/20/2024 10:35	13601	RICH_T2	1	1	0	3.2	0.6	-2.6	0	0	0	0	0	0	0	0
4/20/2024 10:35	55002	NEWP_T1	6	10	4	0.97	1.02	0.05	-0.23	-0.19	0	0	0	0	0	0
4/20/2024 10:35	55001	NEWP_T1	5	7	2	0.58	0.76	0.18	0	0	0	0	0	0	0	0
4/20/2024 10:35	13606	RICH_T2	1	2	1	6.8	3.9	-2.9	0.93	0.8	0	0	0	0	0	0
4/20/2024 10:36	55001	NEWP_T1	5	7	2	0.58	0.76	0.18	0	0	0	0	0	0	0	0
4/20/2024 10:36	42601	TUSC_T1	0	0	0	0	0	0	-0.59	-0.57	2	2	0	1800	1800	0
4/20/2024 10:36	55002	NEWP_T1	6	10	4	0.97	1.02	0.05	-0.23	-0.19	0	0	0	0	0	0
4/20/2024 10:36	44601	SALE_T2	0	2	2	0	0.45	0.45	-0.12	-0.17	0	0	0	0	0	0
4/20/2024 10:37	67702	WERN_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/20/2024 10:37	44601	SALE_T2	0	2	2	0	0.45	0.45	-0.12	-0.17	0	0	0	0	0	0
4/20/2024 10:37	56802	BENV_T2	1	3	2	0.2	0.43	0.23	-3.06	-2.93	0	0	0	0	0	0
4/20/2024 10:37	67703	WERN_T2	1	2	1	0.3	0.5	0.2	-1.01	-1.01	1	1	0	900	900	0
4/20/2024 10:38	67703	WERN_T2	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/20/2024 10:38	56802	BENV_T2	1	3	2	0.2	0.43	0.23	-1.46	-1.5	0	0	0	0	0	0
4/20/2024 10:38	26001	WDAM_T1	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
4/20/2024 10:38	67702	WERN_T2	0	1	1	0	0.8	0.8	-0.12	-0.12	0	0	0	0	0	0
4/20/2024 10:38	26002	WDAM_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/20/2024 10:39	57003	WHHI_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/20/2024 10:39	56803	BENV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/20/2024 10:39	57004	WHHI_T2	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
4/20/2024 10:39	57006	WHHI_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/20/2024 10:39	56801	BENV_T1	9	20	11	0.91	0.67	-0.24	-0.88	-0.88	1	1	0	600	600	0
4/20/2024 10:40	44302	BEAV_T2	15	3	-12	0.57	0.3	-0.27	0	0	0	0	0	0	0	0
4/20/2024 10:40	44301	BEAV_T2	3	10	7	0.1	0.33	0.23	-0.5	-0.52	1	1	0	600	600	0
4/20/2024 10:40	56802	BENV_T2	1	3	2	0.2	0.43	0.23	-1.46	-1.5	0	0	0	0	0	0
4/20/2024 10:41	40703	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 10:41	29402	BELT_T1	3	2	-1	2.5	4.1	1.6	0	0	0	0	0	0	0	0
4/20/2024 10:41	60801	BUCK_T1	3	2	-1	0.17	0.2	0.03	0	0	0	0	0	0	0	0
4/20/2024 10:41	40701	FFLD_T1	5	29	24	0.1	0.19	0.09	0	0	0	0	0	0	0	0
4/20/2024 10:41	60803	BUCK_T1	0	0	0	0	0	0	-1.21	-1.18	1	1	0	600	600	0
4/20/2024 10:41	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 10:41	40702	FFLD_T1	2	74	72	0.1	0.15	0.05	-1.21	-1.22	1	1	0	1200	1200	0
4/20/2024 10:41	13902	SEID_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/20/2024 10:41	10602	BLGL_T2	1	2	1	0.4	0.85	0.45	0.23	0.13	0	0	0	0	0	0
4/20/2024 10:41	13905	SEID_T1	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/20/2024 10:42	67702	WERN_T2	0	1	1	0	0.8	0.8	-0.06	-0.06	0	0	0	0	0	0
4/20/2024 10:42	67703	WERN_T2	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/20/2024 10:42	44302	BEAV_T2	15	3	-12	0.57	0.3	-0.27	0	0	0	0	0	0	0	0
4/20/2024 10:42	44301	BEAV_T2	3	10	7	0.1	0.33	0.23	-0.5	-0.52	1	1	0	600	600	0
4/20/2024 10:43	53901	HALI_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/20/2024 10:43	53903	HALI_T2	4	11	7	0.55	0.61	0.06	0	0	0	0	0	0	0	0
4/20/2024 10:43	53902	HALI_T2	1	3	2	5.3	2.57	-2.73	-0.25	-0.26	0	0	0	0	0	0
4/20/2024 10:43	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/20/2024 10:43	29402	BELT_T1	3	2	-1	2.5	4.1	1.6	0	0	0	0	0	0	0	0
4/20/2024 10:44	60803	BUCK_T1	0	0	0	0	0	0	-1.21	-1.18	1	1	0	600	600	0
4/20/2024 10:44	60801	BUCK_T1	3	2	-1	0.17	0.2	0.03	0	0	0	0	0	0	0	0
4/20/2024 10:45	40101	HUNT_T2	2	0	-2	0.15	0	-0.15	-0.71	-0.72	0	0	0	0	0	0
4/20/2024 10:45	23202	HIRU_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
4/20/2024 10:45	22602	KIMB_T1	0	1	1	0	0.2	0.2	0.32	0.32	0	0	0	0	0	0
4/20/2024 10:46	67702	WERN_T2	0	1	1	0	0.9	0.9	-0.06	-0.06	0	0	0	0	0	0
4/20/2024 10:46	63401	HONY_T1	0	1	1	0	0.2	0.2	0.22	0.28	0	0	0	0	0	0
4/20/2024 10:46	67703	WERN_T2	1	2	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/20/2024 10:46	63402	HONY_T2	1	3	2	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
4/20/2024 10:46	25503	MADI_T1	142	195	53	0.29	0.47	0.18	-1.02	-1.02	0	0	0	0	0	0
4/20/2024 10:46	25502	MADI_T1	1	2	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
4/20/2024 10:46	25501	MADI_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
4/20/2024 10:46	56601	HAMP_T1	4	9	5	0.25	0.38	0.13	-1.8	-1.79	0	0	0	0	0	0
4/20/2024 10:46	63404	HONY_T1	134	142	8	0.41	0.45	0.04	0	0	0	0	0	0	0	0
4/20/2024 10:46	63403	HONY_T2	0	1	1	0	0.1	0.1	0.06	0.11	0	0	0	0	0	0
4/20/2024 10:47	13501	MCMI_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
4/20/2024 10:48	13501	MCMI_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
4/20/2024 10:49	45702	LIND_T2	1	3	2	1	0.47	-0.53	0	0	0	0	0	0	0	0
4/20/2024 10:49	46506	LOHA_T1	1	1	0	0.3	0.5	0.2	-0.54	-0.56	0	0	0	0	0	0
4/20/2024 10:49	45701	LIND_T2	0	0	0	0	0	0	-1.14	-1.15	0	0	0	0	0	0
4/20/2024 10:49	46504	LOHA_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
4/20/2024 10:50	27605	PIRI_T2	0	0	0	0	0	0	-0.69	-0.68	1	1	0	900	900	0
4/20/2024 10:51	65901	SAKR_T2	2	2	0	4.55	4.55	0	-1.35	-1.36	1	1	0	900	900	0
4/20/2024 10:52	67502	WEWI_T2	1	1	0	0.2	0.5	0.3	-1.58	-1.56	1	1	0	900	900	0
4/20/2024 10:54	67502	WEWI_T2	1	1	0	0.2	0.5	0.3	-1.56	-1.56	1	1	0	900	900	0
4/20/2024 10:55	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 10:56	51302	WIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/20/2024 10:56	51304	WIND_T2	2	3	1	0.2	0.53	0.33	-0.19	-0.15	0	0	0	0	0	0
4/20/2024 10:56	51306	WIND_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
4/20/2024 10:57	60102	COCA_T1	0	0	0	0	0	0	0.72	0.66	1	1	0	600	600	0
4/20/2024 10:57	60101	COCA_T1	2	3	1	0.4	0.57	0.17	0	0	0	0	0	0	0	0
4/20/2024 10:59	53903	HALI_T2	5	12	7	0.66	0.77	0.11	0	0	0	0	0	0	0	0
4/20/2024 10:59	11202	ELHE_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
4/20/2024 10:59	53901	HALI_T2	2	3	1	0.7	0.53	-0.17	-1.07	-1.06	0	0	0	0	0	0
4/20/2024 10:59	53902	HALI_T2	3	3	0	2.1	2.7	0.6	0	0	0	0	0	0	0	0
4/20/2024 10:59	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
4/20/2024 11:00	45702	LIND_T2	2	3	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/20/2024 11:00	45701	LIND_T2	0	0	0	0	0	0	-1.15	-1.16	0	0	0	0	0	0
4/20/2024 11:00	24501	GOUL_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
4/20/2024 11:02	24102	EHAZ_T1	3	4	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/20/2024 11:02	24101	EHAZ_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
4/20/2024 11:02	24104	EHAZ_T1	0	1	1	0	0.1	0.1	-2.28	-2.28	1	1	0	1200	1200	0
4/20/2024 11:02	45702	LIND_T2	2	3	1	0.6	0.8	0.2	-0.56	-0.58	0	0	0	0	0	0
4/20/2024 11:02	24105	EHAZ_T1	4	4	0	5.95	5.9	-0.05	0	0	0	0	0	0	0	0
4/20/2024 11:04	60801	BUCK_T1	0	0	0	0	0	0	-0.86	-0.88	1	1	0	600	600	0
4/20/2024 11:05	60605	NCOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/20/2024 11:06	42201	SHEN_T2	0	1	1	0	0.1	0.1	0.64	0.63	0	0	0	0	0	0
4/20/2024 11:06	49803	UNIV_T1	2	2	0	0.65	1.15	0.5	-1.23	-1.22	0	0	0	0	0	0
4/20/2024 11:06	49804	UNIV_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/20/2024 11:07	44202	POIN_T2	1	2	1	0.1	0.4	0.3	-1	-1.01	1	1	0	1200	1200	0
4/20/2024 11:07	13704	SCHN_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
4/20/2024 11:07	40101	HUNT_T2	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
4/20/2024 11:07	45902	AUBU_T1	4	8	4	1.3	0.94	-0.36	-0.52	-0.5	0	0	0	0	0	0
4/20/2024 11:07	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 11:07	44203	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 11:08	54203	PENN_T1	19	19	0	0.76	0.89	0.13	0	0	0	0	0	0	0	0
4/20/2024 11:08	45902	AUBU_T1	4	8	4	1.3	0.94	-0.36	-0.5	-0.55	0	0	0	0	0	0
4/20/2024 11:08	42903	MIDD_T2	2	2	0	1.1	1.2	0.1	0.1	0.03	0	0	0	0	0	0
4/20/2024 11:08	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 11:08	56801	BENV_T1	20	25	5	0.63	0.74	0.11	-1.7	-1.7	2	2	0	1200	1200	0
4/20/2024 11:08	42902	MIDD_T2	0	0	0	0	0	0	-0.76	-0.72	0	0	0	0	0	0
4/20/2024 11:08	56803	BENV_T1	1	4	3	0.4	0.65	0.25	0	0	0	0	0	0	0	0
4/20/2024 11:08	54201	PENN_T1	10	14	4	0.89	0.81	-0.08	-1.13	-1.15	0	0	0	0	0	0
4/20/2024 11:08	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 11:09	20403	ASHF_T2	3	4	1	0.47	0.38	-0.09	0.08	0.05	0	0	0	0	0	0
4/20/2024 11:09	56802	BENV_T2	3	11	8	0.43	0.55	0.12	-2.92	-2.94	0	0	0	0	0	0
4/20/2024 11:09	20401	ASHF_T2	3	2	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
4/20/2024 11:09	20402	ASHF_T2	5	5	0	0.42	0.26	-0.16	0	0	0	0	0	0	0	0
4/20/2024 11:10	56802	BENV_T2	3	11	8	0.43	0.55	0.12	-4.38	-4.42	0	0	0	0	0	0
4/20/2024 11:10	67703	WERN_T2	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
4/20/2024 11:10	56803	BENV_T1	1	4	3	0.4	0.65	0.25	0	0	0	0	0	0	0	0
4/20/2024 11:10	67702	WERN_T2	1	1	0	0.8	0.9	0.1	-0.06	-0.06	0	0	0	0	0	0
4/20/2024 11:10	56801	BENV_T1	20	25	5	0.63	0.74	0.11	-2.55	-2.55	3	3	0	1800	1800	0
4/20/2024 11:11	56803	BENV_T1	1	4	3	0.4	0.65	0.25	0	0	0	0	0	0	0	0
4/20/2024 11:11	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/20/2024 11:11	29402	BELT_T1	2	7	5	4.1	1.5	-2.6	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/20/2024 11:11	49803	UNIV_T1	2	2	0	0.65	1.15	0.5	0	0	0	0	0	0	0	0
4/20/2024 11:11	29401	BELT_T1	0	4	4	0	0.63	0.63	0	0	0	0	0	0	0	0
4/20/2024 11:11	49804	UNIV_T1	1	1	0	0.5	0.8	0.3	0.42	0.4	0	0	0	0	0	0
4/20/2024 11:11	56801	BENV_T1	20	25	5	0.63	0.74	0.11	-2.55	-2.55	3	3	0	1800	1800	0
4/20/2024 11:12	54201	PENN_T1	10	14	4	0.89	0.81	-0.08	0	0	0	0	0	0	0	0
4/20/2024 11:12	56802	BENV_T2	3	11	8	0.43	0.55	0.12	-1.46	-1.47	0	0	0	0	0	0
4/20/2024 11:12	54203	PENN_T1	19	19	0	0.76	0.89	0.13	0	0.01	0	0	0	0	0	0
4/20/2024 11:13	10801	CHHI_T1	5	1	-4	0.18	0.1	-0.08	-1.02	-1.02	1	1	0	900	900	0
4/20/2024 11:16	24902	WHHA_T1	4	2	-2	0.93	0.7	-0.23	0	0	0	0	0	0	0	0
4/20/2024 11:16	24901	WHHA_T1	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/20/2024 11:17	45901	AUBU_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/20/2024 11:17	45902	AUBU_T1	4	9	5	1.48	1.01	-0.47	-0.5	-0.55	0	0	0	0	0	0
4/20/2024 11:20	56801	BENV_T1	24	24	0	0.7	0.75	0.05	-0.85	-0.85	1	1	0	600	600	0
4/20/2024 11:20	56803	BENV_T1	2	4	2	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
4/20/2024 11:21	20402	ASHF_T2	4	3	-1	0.28	0.33	0.05	0	0	0	0	0	0	0	0
4/20/2024 11:21	20403	ASHF_T2	3	6	3	0.33	0.48	0.15	0.08	0.05	0	0	0	0	0	0
4/20/2024 11:21	20401	ASHF_T2	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/20/2024 11:22	59102	WALK_T2	5	6	1	0.5	0.73	0.23	0	0	0	0	0	0	0	0
4/20/2024 11:22	59101	WALK_T2	1	2	1	0.1	0.45	0.35	1.26	1.23	0	0	0	0	0	0
4/20/2024 11:23	43104	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/20/2024 11:23	56601	HAMP_T1	7	11	4	0.43	0.35	-0.08	0	0	0	0	0	0	0	0
4/20/2024 11:23	43202	MVIL_T2	1	1	0	0.9	0.7	-0.2	-0.76	-0.73	0	0	0	0	0	0
4/20/2024 11:23	43102	SMIL_T2	3	5	2	0.1	0.24	0.14	-0.89	-0.88	1	1	0	600	600	0
4/20/2024 11:23	56802	BENV_T2	9	10	1	0.31	0.6	0.29	-1.47	-1.35	0	0	0	0	0	0
4/20/2024 11:23	56803	BENV_T1	2	4	2	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
4/20/2024 11:23	43103	SMIL_T2	1	4	3	0.8	0.58	-0.22	0	0	0	0	0	0	0	0
4/20/2024 11:23	43105	SMIL_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/20/2024 11:23	56801	BENV_T1	24	24	0	0.7	0.75	0.05	-1.7	-1.64	2	2	0	1200	1200	0
4/20/2024 11:23	43201	MVIL_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
4/20/2024 11:23	45702	LIND_T2	2	4	2	0.35	0.68	0.33	-0.58	-0.56	0	0	0	0	0	0
4/20/2024 11:23	66703	STRA_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
4/20/2024 11:23	56603	HAMP_T1	0	0	0	0	0	0	-1.12	-1.19	0	0	0	0	0	0
4/20/2024 11:23	43101	SMIL_T2	4	4	0	0.65	0.73	0.08	0	0	0	0	0	0	0	0
4/20/2024 11:23	66701	STRA_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
4/20/2024 11:24	12603	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 11:24	12604	MACA_T1	2	4	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
4/20/2024 11:24	45702	LIND_T2	2	4	2	0.35	0.68	0.33	0	0	0	0	0	0	0	0
4/20/2024 11:24	45902	AUBU_T1	4	9	5	1.48	1.01	-0.47	-0.55	-0.49	0	0	0	0	0	0
4/20/2024 11:24	12606	MACA_T1	0	0	0	0	0	0	-0.38	-0.37	1	1	0	900	900	0
4/20/2024 11:24	45701	LIND_T2	0	0	0	0	0	0	-1.15	-1.14	0	0	0	0	0	0
4/20/2024 11:24	12605	MACA_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/20/2024 11:24	45901	AUBU_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/20/2024 11:24	58402	MORO_T1	0	0	0	0	0	0	-0.57	-0.58	2	2	0	1500	1500	0
4/20/2024 11:24	12601	MACA_T1	1	2	1	1.8	1.65	-0.15	0	0	0	0	0	0	0	0
4/20/2024 11:24	65604	QVIL_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
4/20/2024 11:24	12602	MACA_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
4/20/2024 11:24	58401	MORO_T1	3	3	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/20/2024 11:24	65601	QVIL_T2	0	0	0	0	0	0	-1.18	-1.21	1	1	0	900	900	0
4/20/2024 11:25	62102	ELAN_T1	0	1	1	0	0.2	0.2	0.52	0.53	0	0	0	0	0	0
4/20/2024 11:25	62103	ELAN_T1	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
4/20/2024 11:25	58402	MORO_T1	0	0	0	0	0	0	-0.57	-0.58	2	2	0	1500	1500	0
4/20/2024 11:25	56802	BENV_T2	9	10	1	0.31	0.6	0.29	-1.47	-1.35	0	0	0	0	0	0
4/20/2024 11:25	62101	ELAN_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/20/2024 11:25	62106	ELAN_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/20/2024 11:25	58401	MORO_T1	3	3	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/20/2024 11:25	62105	ELAN_T1	5	7	2	0.28	0.41	0.13	0	0	0	0	0	0	0	0
4/20/2024 11:26	16301	ALPA_T1	4	6	2	0.4	0.6	0.2	-0.41	-0.45	0	0	0	0	0	0
4/20/2024 11:27	20401	ASHF_T2	2	1	-1	0.3	0.5	0.2	-0.41	-0.41	0	0	0	0	0	0
4/20/2024 11:27	56802	BENV_T2	9	10	1	0.31	0.6	0.29	-1.47	-1.35	0	0	0	0	0	0
4/20/2024 11:27	63401	HONY_T1	1	2	1	0.2	0.15	-0.05	-0.01	-0.01	0	0	0	0	0	0
4/20/2024 11:27	20403	ASHF_T2	3	6	3	0.33	0.48	0.15	0.05	0.07	0	0	0	0	0	0
4/20/2024 11:27	63404	HONY_T1	129	138	9	0.43	0.42	-0.01	0	0	0	0	0	0	0	0
4/20/2024 11:27	20402	ASHF_T2	4	3	-1	0.28	0.33	0.05	0	0	0	0	0	0	0	0
4/20/2024 11:28	20402	ASHF_T2	4	3	-1	0.28	0.33	0.05	0	0	0	0	0	0	0	0
4/20/2024 11:28	67603	WARW_T1	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/20/2024 11:28	20401	ASHF_T2	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/20/2024 11:28	13704	SCHN_T2	0	0	0	0	0	0	-0.42	-0.45	0	0	0	0	0	0
4/20/2024 11:28	67604	WARW_T1	0	0	0	0	0	0	-0.06	-0.14	0	0	0	0	0	0
4/20/2024 11:28	67605	WARW_T1	10	15	5	0.56	0.51	-0.05	0	0	0	0	0	0	0	0
4/20/2024 11:28	20403	ASHF_T2	3	6	3	0.33	0.48	0.15	0.05	0.07	0	0	0	0	0	0
4/20/2024 11:29	20603	GRWO_T2	4	6	2	0.38	0.65	0.27	0.42	0.46	0	0	0	0	0	0
4/20/2024 11:29	11205	ELHE_T1	0	0	0	0	0	0	-1.02	-0.98	1	1	0	1200	1200	0
4/20/2024 11:29	56802	BENV_T2	9	10	1	0.31	0.6	0.29	-1.47	-1.35	0	0	0	0	0	0
4/20/2024 11:29	45902	AUBU_T1	4	9	5	1.48	1.01	-0.47	-0.55	-0.49	0	0	0	0	0	0
4/20/2024 11:29	45901	AUBU_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/20/2024 11:30	58401	MORO_T1	3	4	1	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
4/20/2024 11:30	58402	MORO_T1	0	1	1	0	0.4	0.4	-0.57	-0.58	2	2	0	1500	1500	0
4/20/2024 11:31	59003	MIFF_T1	3	3	0	0.33	0.37	0.04	0.29	0.28	0	0	0	0	0	0
4/20/2024 11:31	59001	MIFF_T1	1	2	1	0.4	0.75	0.35	0	0	0	0	0	0	0	0
4/20/2024 11:34	43201	MVIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/20/2024 11:34	43202	MVIL_T2	1	1	0	0.7	1	0.3	-0.73	-0.73	0	0	0	0	0	0
4/20/2024 11:35	67203	TEHI_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/20/2024 11:35	17002	RIRO_T2	2	3	1	1.15	0.93	-0.22	0.3	0.32	0	0	0	0	0	0
4/20/2024 11:35	59102	WALK_T2	5	6	1	0.7	0.78	0.08	0	0	0	0	0	0	0	0
4/20/2024 11:35	67201	TEHI_T1	4	23	19	0.78	0.23	-0.55	0.2	0.2	0	0	0	0	0	0
4/20/2024 11:35	59101	WALK_T2	1	2	1	0.2	0.45	0.25	1.23	1.19	0	0	0	0	0	0
4/20/2024 11:38	43101	SMIL_T2	4	4	0	0.65	1.13	0.48	-0.82	-0.84	0	0	0	0	0	0
4/20/2024 11:38	49803	UNIV_T1	1	2	1	0.6	0.65	0.05	-1.17	-1.17	0	0	0	0	0	0
4/20/2024 11:38	49804	UNIV_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/20/2024 11:38	43105	SMIL_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/20/2024 11:38	66701	STRA_T1	1	1	0	0.2	1.4	1.2	0	0	0	0	0	0	0	0
4/20/2024 11:38	43104	SMIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/20/2024 11:38	43103	SMIL_T2	2	3	1	0.65	0.73	0.08	0	0	0	0	0	0	0	0
4/20/2024 11:38	43102	SMIL_T2	5	5	0	0.24	0.16	-0.08	0	0	0	0	0	0	0	0
4/20/2024 11:38	66703	STRA_T1	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
4/20/2024 11:39	51101	CARL_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/20/2024 11:39	51109	CARL_T1	1	1	0	0.7	0.3	-0.4	-1.04	-1.02	1	1	0	1200	1200	0
4/20/2024 11:39	51102	CARL_T1	11	11	0	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
4/20/2024 11:39	51108	CARL_T1	3	2	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/20/2024 11:39	59101	WALK_T2	1	2	1	0.2	0.45	0.25	1.19	1.13	0	0	0	0	0	0
4/20/2024 11:39	59102	WALK_T2	5	6	1	0.7	0.78	0.08	0	0	0	0	0	0	0	0
4/20/2024 11:40	43103	SMIL_T2	2	3	1	0.65	0.73	0.08	0	0	0	0	0	0	0	0
4/20/2024 11:40	51109	CARL_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
4/20/2024 11:40	43105	SMIL_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/20/2024 11:40	51101	CARL_T1	1	1	0	0.7	0.5	-0.2	-1.12	-1.07	1	1	0	600	600	0
4/20/2024 11:40	43101	SMIL_T2	4	4	0	0.65	1.13	0.48	0	0	0	0	0	0	0	0
4/20/2024 11:40	45901	AUBU_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/20/2024 11:40	43102	SMIL_T2	5	5	0	0.24	0.16	-0.08	-0.89	-0.89	1	1	0	600	600	0
4/20/2024 11:40	45902	AUBU_T1	8	9	1	0.94	0.97	0.03	-0.49	-0.53	0	0	0	0	0	0
4/20/2024 11:40	43104	SMIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/20/2024 11:40	51102	CARL_T1	11	11	0	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
4/20/2024 11:40	51108	CARL_T1	3	2	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/20/2024 11:41	51102	CARL_T1	11	11	0	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
4/20/2024 11:41	51109	CARL_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
4/20/2024 11:41	51101	CARL_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/20/2024 11:41	51108	CARL_T1	3	2	-1	0.3	0.3	0	-0.48	-0.49	0	0	0	0	0	0
4/20/2024 11:41	45501	DERR_T2	4	7	3	0.28	0.44	0.16	-0.77	-0.57	2	2	0	1800	1800	0
4/20/2024 11:41	51107	CARL_T1	0	0	0	0	0	0	-0.47	-0.35	0	0	0	0	0	0
4/20/2024 11:42	16301	ALPA_T1	6	6	0	0.5	0.58	0.08	-0.45	-0.42	0	0	0	0	0	0
4/20/2024 11:42	60801	BUCK_T1	0	5	5	0	0.18	0.18	-1.74	-1.72	2	2	0	1200	1200	0
4/20/2024 11:42	45501	DERR_T2	4	7	3	0.28	0.44	0.16	-0.77	-0.57	2	2	0	1800	1800	0
4/20/2024 11:43	28703	HAML_T2	3	3	0	0.57	0.87	0.3	0	0	0	0	0	0	0	0
4/20/2024 11:43	28704	HAML_T2	1	1	0	0.4	0.6	0.2	-0.01	-0.01	0	0	0	0	0	0
4/20/2024 11:43	28701	HAML_T2	3	6	3	0.97	0.82	-0.15	0	0	0	0	0	0	0	0
4/20/2024 11:43	45501	DERR_T2	4	7	3	0.28	0.44	0.16	-0.77	-0.57	2	2	0	1800	1800	0
4/20/2024 11:44	51108	CARL_T1	3	2	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/20/2024 11:44	60801	BUCK_T1	0	5	5	0	0.18	0.18	-0.87	-0.86	1	1	0	600	600	0
4/20/2024 11:44	64701	LITI_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
4/20/2024 11:44	24105	EHAZ_T1	4	4	0	5.98	5.98	0	0	0	0	0	0	0	0	0
4/20/2024 11:44	24102	EHAZ_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 11:44	24103	EHAZ_T1	0	0	0	0	0	0	-1.17	-1.21	0	0	0	0	0	0
4/20/2024 11:44	51102	CARL_T1	11	11	0	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
4/20/2024 11:44	28403	HART_T2	0	0	0	0	0	0	-0.98	-0.99	1	1	0	900	900	0
4/20/2024 11:44	51109	CARL_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
4/20/2024 11:44	24104	EHAZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 11:44	24101	EHAZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/20/2024 11:44	51101	CARL_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/20/2024 11:44	47101	MARL_T1	0	0	0	0	0	0	-0.37	-0.4	0	0	0	0	0	0
4/20/2024 11:44	51107	CARL_T1	0	0	0	0	0	0	-0.47	-0.35	0	0	0	0	0	0
4/20/2024 11:45	65501	MOJO_T1	1	0	-1	0.1	0	-0.1	-1.14	-1.1	1	1	0	900	900	0
4/20/2024 11:45	45901	AUBU_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/20/2024 11:45	44504	HAMI_T2	0	2	2	0	0.15	0.15	-1.24	-1.31	0	0	0	0	0	0
4/20/2024 11:45	44502	HAMI_T2	6	6	0	0.88	1.13	0.25	0	0	0	0	0	0	0	0
4/20/2024 11:45	44505	HAMI_T2	4	7	3	0.58	0.57	-0.01	0	0	0	0	0	0	0	0
4/20/2024 11:45	45902	AUBU_T1	9	8	-1	0.97	0.96	-0.01	-0.49	-0.53	0	0	0	0	0	0
4/20/2024 11:46	60801	BUCK_T1	4	3	-1	0.18	0.17	-0.01	-0.87	-0.86	1	1	0	600	600	0
4/20/2024 11:48	56501	ROCK_T2	1	3	2	0.1	0.23	0.13	-0.01	-0.01	0	0	0	0	0	0
4/20/2024 11:48	56504	ROCK_T2	4	2	-2	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
4/20/2024 11:48	16101	BING_T2	2	0	-2	0.2	0	-0.2	0.34	0.34	0	0	0	0	0	0
4/20/2024 11:48	16102	BING_T2	7	5	-2	0.6	0.72	0.12	0	0	0	0	0	0	0	0
4/20/2024 11:48	16103	BING_T2	1	1	0	1.5	0.8	-0.7	0	0	0	0	0	0	0	0
4/20/2024 11:49	42903	MIDD_T2	2	3	1	1.25	1.2	-0.05	0	0	0	0	0	0	0	0
4/20/2024 11:49	42902	MIDD_T2	3	5	2	0.23	0.48	0.25	-1.49	-1.43	0	0	0	0	0	0
4/20/2024 11:49	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 11:49	56501	ROCK_T2	1	3	2	0.1	0.23	0.13	-0.01	-0.01	0	0	0	0	0	0
4/20/2024 11:49	60801	BUCK_T1	4	3	-1	0.18	0.17	-0.01	-0.87	-0.86	1	1	0	600	600	0
4/20/2024 11:49	65503	MOJO_T2	6	8	2	0.5	0.83	0.33	-0.49	-0.46	0	0	0	0	0	0
4/20/2024 11:49	56504	ROCK_T2	4	2	-2	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
4/20/2024 11:49	46802	HEPB_T1	1	0	-1	0.2	0	-0.2	-0.53	-0.48	0	0	0	0	0	0
4/20/2024 11:50	56504	ROCK_T2	4	2	-2	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
4/20/2024 11:50	56501	ROCK_T2	1	3	2	0.1	0.23	0.13	-0.01	-0.01	0	0	0	0	0	0
4/20/2024 11:50	65603	QVIL_T2	0	0	0	0	0	0	-0.89	-0.89	0	0	0	0	0	0
4/20/2024 11:51	54206	PENN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/20/2024 11:51	54202	PENN_T2	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
4/20/2024 11:51	60801	BUCK_T1	4	3	-1	0.18	0.17	-0.01	-0.87	-0.86	1	1	0	600	600	0
4/20/2024 11:53	16103	BING_T2	1	1	0	1.5	0.8	-0.7	0	0	0	0	0	0	0	0
4/20/2024 11:53	16101	BING_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/20/2024 11:53	16102	BING_T2	7	5	-2	0.6	0.72	0.12	-0.06	-0.09	0	0	0	0	0	0
4/20/2024 11:54	66703	STRA_T1	0	0	0	0	0	0	-0.25	-0.21	0	0	0	0	0	0
4/20/2024 11:54	66701	STRA_T1	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
4/20/2024 11:55	15103	UPHA_T2	1	4	3	0.8	0.58	-0.22	0.36	0.34	0	0	0	0	0	0
4/20/2024 11:56	61303	EARL_T1	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
4/20/2024 11:56	61302	EARL_T1	4	4	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
4/20/2024 11:56	61304	EARL_T1	2	3	1	0.3	0.33	0.03	-0.99	-1	1	1	0	600	600	0
4/20/2024 11:56	45902	AUBU_T1	9	8	-1	0.97	0.96	-0.01	-0.53	-0.52	0	0	0	0	0	0
4/20/2024 11:56	14203	EALL_T1	0	5	5	0	0.52	0.52	-0.46	-0.38	1	1	0	1200	1200	0
4/20/2024 11:56	45901	AUBU_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/20/2024 11:56	14201	EALL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 11:56	61306	EARL_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
4/20/2024 11:57	24702	FLND_T2	4	3	-1	1.08	1.07	-0.01	-0.41	-0.49	1	1	0	1200	1200	0
4/20/2024 11:58	40101	HUNT_T2	1	4	3	0.1	0.35	0.25	-0.73	-0.73	0	0	0	0	0	0
4/20/2024 11:58	61302	EARL_T1	4	4	0	0.65	0.7	0.05	-0.3	-0.27	2	2	0	1800	1800	0
4/20/2024 11:58	17401	FOHI_T1	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
4/20/2024 11:58	61303	EARL_T1	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
4/20/2024 11:58	61304	EARL_T1	2	3	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
4/20/2024 12:00	40101	HUNT_T2	4	3	-1	0.35	0.23	-0.12	-1.47	-1.45	0	0	0	0	0	0
4/20/2024 12:00	60801	BUCK_T1	3	4	1	0.17	0.25	0.08	-0.86	-0.86	1	1	0	600	600	0
4/20/2024 12:01	64305	LINC_T1	1	1	0	0.1	0.6	0.5	-0.6	-0.63	0	0	0	0	0	0
4/20/2024 12:01	45902	AUBU_T1	5	8	3	1.3	1.11	-0.19	-0.53	-0.52	0	0	0	0	0	0
4/20/2024 12:01	64303	LINC_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/20/2024 12:01	45901	AUBU_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:05	65604	QVIL_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
4/20/2024 12:06	60801	BUCK_T1	3	4	1	0.17	0.25	0.08	-0.86	-0.86	1	1	0	600	600	0
4/20/2024 12:06	15103	UPHA_T2	4	4	0	0.45	0.7	0.25	0.36	0.34	0	0	0	0	0	0
4/20/2024 12:07	45902	AUBU_T1	5	8	3	1.3	1.11	-0.19	-0.53	-0.52	0	0	0	0	0	0
4/20/2024 12:07	45901	AUBU_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:08	13502	MCMI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 12:08	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
4/20/2024 12:08	61202	REIN_T1	25	36	11	0.26	0.27	0.01	0	0	0	0	0	0	0	0
4/20/2024 12:08	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 12:08	54601	SUMM_T2	0	4	4	0	0.13	0.13	-1.92	-1.92	2	2	0	2100	2100	0
4/20/2024 12:09	66502	SMAN_T2	2	3	1	0.65	0.67	0.02	0	0	0	0	0	0	0	0
4/20/2024 12:09	61202	REIN_T1	25	36	11	0.26	0.27	0.01	0	0	0	0	0	0	0	0
4/20/2024 12:09	66505	SMAN_T2	0	1	1	0	0.4	0.4	0.16	0.11	2	2	0	1100	1100	0
4/20/2024 12:09	56801	BENV_T1	21	31	10	0.78	0.78	0	-0.84	-0.81	1	1	0	600	600	0
4/20/2024 12:09	56803	BENV_T1	3	3	0	0.7	0.67	-0.03	0	0	0	0	0	0	0	0
4/20/2024 12:09	13807	SALI_T1	4	4	0	0.75	0.93	0.18	0	0	0	0	0	0	0	0
4/20/2024 12:09	66501	SMAN_T2	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:09	13803	SALI_T1	0	3	3	0	0.27	0.27	-1.96	-2.02	4	4	0	4800	4800	0
4/20/2024 12:09	66504	SMAN_T2	1	2	1	1	0.65	-0.35	-1.12	-1.1	0	0	0	0	0	0
4/20/2024 12:10	13807	SALI_T1	4	4	0	0.75	0.93	0.18	0	0	0	0	0	0	0	0
4/20/2024 12:10	40101	HUNT_T2	4	3	-1	0.35	0.23	-0.12	-0.73	-0.72	0	0	0	0	0	0
4/20/2024 12:10	56801	BENV_T1	21	31	10	0.78	0.78	0	-1.68	-1.62	2	2	0	1200	1200	0
4/20/2024 12:10	13803	SALI_T1	0	3	3	0	0.27	0.27	-0.98	-1.01	2	2	0	2400	2400	0
4/20/2024 12:10	61101	BERK_T5	0	2	2	0	0.35	0.35	-2.05	-2.03	0	0	0	0	0	0
4/20/2024 12:10	15103	UPHA_T2	4	4	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
4/20/2024 12:10	56803	BENV_T1	3	3	0	0.7	0.67	-0.03	0	0	0	0	0	0	0	0
4/20/2024 12:10	15104	UPHA_T2	0	0	0	0	0	0	0.4	0.35	0	0	0	0	0	0
4/20/2024 12:11	42903	MIDD_T2	3	2	-1	1.07	1.75	0.68	0	0	0	0	0	0	0	0
4/20/2024 12:11	54601	SUMM_T2	0	4	4	0	0.13	0.13	-1.92	-1.92	2	2	0	2100	2100	0
4/20/2024 12:11	66504	SMAN_T2	1	2	1	1	0.65	-0.35	-0.56	-0.55	0	0	0	0	0	0
4/20/2024 12:11	53502	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:11	66505	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/20/2024 12:11	66502	SMAN_T2	2	3	1	0.65	0.67	0.02	0	0	0	0	0	0	0	0
4/20/2024 12:11	53501	EVIL_T2	22	33	11	0.57	0.53	-0.04	-0.8	-0.74	0	0	0	0	0	0
4/20/2024 12:11	45902	AUBU_T1	5	8	3	1.3	1.11	-0.19	-0.52	-0.6	0	0	0	0	0	0
4/20/2024 12:11	56802	BENV_T2	6	11	5	0.6	0.64	0.04	-1.4	-1.37	0	0	0	0	0	0
4/20/2024 12:11	45901	AUBU_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:11	66501	SMAN_T2	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:11	42901	MIDD_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/20/2024 12:11	27603	HIRI_T2	0	0	0	0	0	0	-1.11	-1.13	2	2	0	1800	1800	0
4/20/2024 12:11	42401	GIMA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:11	42902	MIDD_T2	2	5	3	0.35	0.7	0.35	-0.71	-0.73	0	0	0	0	0	0
4/20/2024 12:12	52004	LING_T2	1	1	0	0.7	0.3	-0.4	0.09	0.09	0	0	0	0	0	0
4/20/2024 12:12	54601	SUMM_T2	0	4	4	0	0.13	0.13	-3.84	-3.84	4	4	0	4200	4200	0
4/20/2024 12:12	53501	EVIL_T2	22	33	11	0.57	0.53	-0.04	-2.39	-2.21	0	0	0	0	0	0
4/20/2024 12:12	42902	MIDD_T2	2	5	3	0.35	0.7	0.35	-0.71	-0.73	0	0	0	0	0	0
4/20/2024 12:12	42901	MIDD_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/20/2024 12:12	53502	EVIL_T2	0	1	1	0	0.1	0.1	0.66	0.68	0	0	0	0	0	0
4/20/2024 12:12	42903	MIDD_T2	3	2	-1	1.07	1.75	0.68	0	0	0	0	0	0	0	0
4/20/2024 12:13	53501	EVIL_T2	22	33	11	0.57	0.53	-0.04	-0.8	-0.74	0	0	0	0	0	0
4/20/2024 12:13	53502	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:14	64203	KINZ_T1	1	3	2	1.1	0.57	-0.53	0.16	0.15	0	0	0	0	0	0
4/20/2024 12:14	64202	KINZ_T1	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/20/2024 12:14	64204	KINZ_T1	4	4	0	0.55	0.58	0.03	0	0	0	0	0	0	0	0
4/20/2024 12:14	56802	BENV_T2	6	11	5	0.6	0.64	0.04	-1.4	-1.37	0	0	0	0	0	0
4/20/2024 12:14	64201	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/20/2024 12:15	63401	HONY_T1	0	1	1	0	0.1	0.1	0	0.05	0	0	0	0	0	0
4/20/2024 12:15	64403	LAND_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/20/2024 12:15	64401	LAND_T1	1	2	1	0.7	0.7	0	-1.02	-1	1	1	0	600	600	0
4/20/2024 12:15	63404	HONY_T1	137	157	20	0.51	0.76	0.25	0	0	0	0	0	0	0	0
4/20/2024 12:16	42901	MIDD_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/20/2024 12:16	42903	MIDD_T2	2	2	0	1.6	1.75	0.15	0	0	0	0	0	0	0	0
4/20/2024 12:16	42902	MIDD_T2	5	5	0	0.48	0.72	0.24	-0.71	-0.73	0	0	0	0	0	0
4/20/2024 12:17	12801	MICK_T1	0	0	0	0	0	0	-0.18	-0.23	1	1	0	600	600	0
4/20/2024 12:18	40101	HUNT_T2	3	3	0	0.23	0.13	-0.1	-0.73	-0.72	0	0	0	0	0	0
4/20/2024 12:19	13601	RICH_T2	2	2	0	0.85	0.4	-0.45	0	0	0	0	0	0	0	0
4/20/2024 12:19	14403	SSLA_T1	1	2	1	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
4/20/2024 12:19	15604	NSTR_T1	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
4/20/2024 12:19	13606	RICH_T2	2	2	0	3.85	3.9	0.05	0.5	0.45	0	0	0	0	0	0
4/20/2024 12:19	14401	SSLA_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/20/2024 12:19	14402	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/20/2024 12:19	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:19	65603	QVIL_T2	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
4/20/2024 12:19	14404	SSLA_T1	1	1	0	4.8	4.8	0	-0.02	-0.01	0	0	0	0	0	0
4/20/2024 12:20	14403	SSLA_T1	1	2	1	0.8	0.3	-0.5	0.5	0.46	0	0	0	0	0	0
4/20/2024 12:20	42801	SELI_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/20/2024 12:20	16504	STRO_T1	0	0	0	0	0	0	0.08	0.11	1	1	0	1200	1200	0
4/20/2024 12:20	42802	SELI_T1	0	0	0	0	0	0	-0.83	-0.88	1	1	0	900	900	0
4/20/2024 12:20	14401	SSLA_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/20/2024 12:20	54201	PENN_T1	18	17	-1	0.77	0.84	0.07	0	0	0	0	0	0	0	0
4/20/2024 12:20	42201	SHEN_T2	2	2	0	0.5	0.55	0.05	0.32	0.31	0	0	0	0	0	0
4/20/2024 12:20	54203	PENN_T1	20	21	1	0.93	0.9	-0.03	0.01	0.02	0	0	0	0	0	0
4/20/2024 12:20	14404	SSLA_T1	1	1	0	4.8	4.8	0	-0.02	-0.01	0	0	0	0	0	0
4/20/2024 12:20	14402	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/20/2024 12:21	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 12:21	54201	PENN_T1	18	17	-1	0.77	0.84	0.07	-1.11	-1.09	0	0	0	0	0	0
4/20/2024 12:21	51302	WIND_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/20/2024 12:21	51304	WIND_T2	3	3	0	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
4/20/2024 12:21	59202	THOM_T1	36	161	125	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
4/20/2024 12:21	51306	WIND_T2	2	3	1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
4/20/2024 12:21	54203	PENN_T1	20	21	1	0.93	0.9	-0.03	0	0	0	0	0	0	0	0
4/20/2024 12:21	59201	THOM_T1	1	2	1	1.8	0.95	-0.85	0	0	0	0	0	0	0	0
4/20/2024 12:22	15203	SFAR_T2	40	55	15	0.26	0.36	0.1	-1.27	-1.27	0	0	0	0	0	0
4/20/2024 12:22	45901	AUBU_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:22	15204	SFAR_T2	1	5	4	0.7	1.08	0.38	0	0	0	0	0	0	0	0
4/20/2024 12:22	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 12:22	45902	AUBU_T1	8	9	1	0.96	1.07	0.11	-0.52	-0.6	0	0	0	0	0	0
4/20/2024 12:22	42801	SELI_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/20/2024 12:22	42802	SELI_T1	0	0	0	0	0	0	-0.83	-0.88	1	1	0	900	900	0
4/20/2024 12:23	54203	PENN_T1	20	21	1	0.93	0.9	-0.03	0.02	0	0	0	0	0	0	0
4/20/2024 12:23	54201	PENN_T1	18	17	-1	0.77	0.84	0.07	0	0	0	0	0	0	0	0
4/20/2024 12:23	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 12:24	58003	WCAR_T1	1	1	0	0.5	0.5	0	-0.06	-0.09	1	1	0	600	600	0
4/20/2024 12:24	57003	WHHI_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
4/20/2024 12:24	57006	WHHI_T2	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/20/2024 12:24	57004	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:24	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 12:24	57002	WHHI_T2	0	0	0	0	0	0	-1.43	-1.43	1	1	0	1200	1200	0
4/20/2024 12:25	45403	WBLO_T1	0	0	0	0	0	0	-0.58	-0.47	3	3	0	3600	3600	0
4/20/2024 12:25	60903	DONG_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/20/2024 12:25	60902	DONG_T2	1	0	-1	0.2	0	-0.2	0.76	0.78	0	0	0	0	0	0
4/20/2024 12:25	60904	DONG_T2	4	3	-1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
4/20/2024 12:25	54504	ENOL_T2	1	2	1	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/20/2024 12:25	57001	WHHI_T2	0	0	0	0	0	0	-0.36	-0.35	1	1	0	900	900	0
4/20/2024 12:25	57003	WHHI_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
4/20/2024 12:25	54503	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/20/2024 12:25	54505	ENOL_T2	3	3	0	0.57	0.73	0.16	0	0	0	0	0	0	0	0
4/20/2024 12:25	45402	WBLO_T2	1	4	3	0.1	0.5	0.4	-1.8	-1.8	1	1	0	900	900	0
4/20/2024 12:25	54502	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/20/2024 12:25	57004	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:25	54501	ENOL_T2	3	3	0	0.6	0.4	-0.2	-0.56	-0.55	1	1	0	600	600	0
4/20/2024 12:25	60901	DONG_T2	10	7	-3	0.43	0.43	0	0	0	0	0	0	0	0	0
4/20/2024 12:25	64101	REFR_T1	2	6	4	0.3	0.3	0	-0.84	-0.82	0	0	0	0	0	0
4/20/2024 12:25	57006	WHHI_T2	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/20/2024 12:27	65207	PRIN_T4	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:27	54501	ENOL_T2	3	3	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/20/2024 12:27	54504	ENOL_T2	1	2	1	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/20/2024 12:27	54503	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/20/2024 12:27	22101	EDEL_T2	0	2	2	0	0.7	0.7	0.41	0.4	1	1	0	1200	1200	0
4/20/2024 12:27	45902	AUBU_T1	8	9	1	0.96	1.07	0.11	-0.6	-0.56	0	0	0	0	0	0
4/20/2024 12:27	54502	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/20/2024 12:27	54505	ENOL_T2	3	3	0	0.57	0.73	0.16	-1.36	-1.37	1	1	0	600	600	0
4/20/2024 12:27	45901	AUBU_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:27	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 12:27	26402	INOR_T1	1	1	0	1	0	-1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/20/2024 12:27	26401	INOR_T1	2	3	1	4.6	3.3	-1.3	0.33	0.34	0	0	0	0	0	0
4/20/2024 12:27	14203	EALL_T1	5	5	0	0.52	0.92	0.4	-0.45	-0.46	1	1	0	1200	1200	0
4/20/2024 12:28	15201	SFAR_T1	0	0	0	0	0	0	-0.01	-0.09	1	1	0	1200	1200	0
4/20/2024 12:29	26803	JAFR_T1	1	1	0	0.6	0.2	-0.4	-0.02	-0.06	1	1	0	900	900	0
4/20/2024 12:30	54504	ENOL_T2	2	1	-1	0.8	1.3	0.5	0	0	0	0	0	0	0	0
4/20/2024 12:30	54502	ENOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/20/2024 12:30	54505	ENOL_T2	3	3	0	0.7	0.67	-0.03	0	0	0	0	0	0	0	0
4/20/2024 12:30	54503	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/20/2024 12:30	54501	ENOL_T2	3	1	-2	0.4	0.2	-0.2	-0.56	-0.55	1	1	0	600	600	0
4/20/2024 12:31	60801	BUCK_T1	4	6	2	0.25	0.33	0.08	-0.84	-0.86	1	1	0	600	600	0
4/20/2024 12:31	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:33	47401	PENS_T1	6	22	16	1.22	0.5	-0.72	0.99	1.14	0	0	0	0	0	0
4/20/2024 12:33	47403	PENS_T1	7	7	0	0.43	0.44	0.01	0	0	0	0	0	0	0	0
4/20/2024 12:33	47402	PENS_T1	3	3	0	0.57	1	0.43	0	0	0	0	0	0	0	0
4/20/2024 12:34	12603	MACA_T1	4	2	-2	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/20/2024 12:34	16406	MOPO_T1	0	0	0	0	0	0	-1.46	-1.48	2	2	0	2100	2100	0
4/20/2024 12:34	12601	MACA_T1	3	3	0	1.13	1.5	0.37	0	0	0	0	0	0	0	0
4/20/2024 12:34	12606	MACA_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:34	12605	MACA_T1	3	3	0	0.77	0.7	-0.07	0	0	0	0	0	0	0	0
4/20/2024 12:34	12604	MACA_T1	4	6	2	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
4/20/2024 12:34	12602	MACA_T1	3	4	1	0.53	0.45	-0.08	-0.2	-0.16	0	0	0	0	0	0
4/20/2024 12:34	16402	MOPO_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/20/2024 12:35	12605	MACA_T1	3	3	0	0.77	0.7	-0.07	0	0	0	0	0	0	0	0
4/20/2024 12:35	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:35	12604	MACA_T1	4	6	2	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
4/20/2024 12:35	12603	MACA_T1	4	2	-2	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/20/2024 12:35	12601	MACA_T1	3	3	0	1.13	1.5	0.37	0	0	0	0	0	0	0	0
4/20/2024 12:35	12606	MACA_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:35	65603	QVIL_T2	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
4/20/2024 12:35	12602	MACA_T1	3	4	1	0.53	0.45	-0.08	-0.2	-0.16	0	0	0	0	0	0
4/20/2024 12:36	67505	WEWI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 12:36	67501	WEWI_T1	1	2	1	0.2	0.3	0.1	-1.21	-1.15	1	1	0	600	600	0
4/20/2024 12:37	60801	BUCK_T1	4	6	2	0.25	0.33	0.08	-0.84	-0.86	1	1	0	600	600	0
4/20/2024 12:37	67501	WEWI_T1	1	2	1	0.2	0.3	0.1	-1.21	-1.15	1	1	0	600	600	0
4/20/2024 12:37	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:37	13601	RICH_T2	1	2	1	0.2	0.3	0.1	-0.02	-0.01	1	1	0	600	600	0
4/20/2024 12:37	13606	RICH_T2	2	2	0	3.65	3.9	0.25	0	0	0	0	0	0	0	0
4/20/2024 12:37	67505	WEWI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 12:38	67703	WERN_T2	3	3	0	0.67	0.77	0.1	-0.97	-0.97	1	1	0	900	900	0
4/20/2024 12:38	67702	WERN_T2	2	1	-1	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:38	66701	STRA_T1	1	1	0	1.5	1.6	0.1	-0.36	-0.35	1	1	0	600	600	0
4/20/2024 12:39	46002	BERW_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:39	46003	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/20/2024 12:39	66701	STRA_T1	1	1	0	1.5	1.6	0.1	-0.36	-0.35	1	1	0	600	600	0
4/20/2024 12:39	46004	BERW_T2	1	1	0	0.2	0.2	0	-0.68	-0.68	0	0	0	0	0	0
4/20/2024 12:40	12605	MACA_T1	3	3	0	0.77	0.7	-0.07	0.2	0.23	0	0	0	0	0	0
4/20/2024 12:40	12602	MACA_T1	3	4	1	0.53	0.45	-0.08	0	0	0	0	0	0	0	0
4/20/2024 12:40	67703	WERN_T2	3	3	0	0.67	0.77	0.1	-0.97	-0.97	1	1	0	900	900	0
4/20/2024 12:40	12601	MACA_T1	3	3	0	1.13	1.5	0.37	0	0	0	0	0	0	0	0
4/20/2024 12:40	12603	MACA_T1	4	2	-2	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/20/2024 12:40	12604	MACA_T1	4	6	2	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
4/20/2024 12:40	67702	WERN_T2	2	1	-1	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:40	12606	MACA_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:41	61303	EARL_T1	0	0	0	0	0	0	0.27	0.19	0	0	0	0	0	0
4/20/2024 12:41	14204	EALL_T2	2	4	2	0.25	0.4	0.15	-0.8	-0.72	0	0	0	0	0	0
4/20/2024 12:41	61302	EARL_T1	4	4	0	0.78	0.78	0	0	0	0	0	0	0	0	0
4/20/2024 12:41	61304	EARL_T1	3	4	1	0.37	0.28	-0.09	0	0	0	0	0	0	0	0
4/20/2024 12:42	61304	EARL_T1	3	4	1	0.37	0.28	-0.09	0	0	0	0	0	0	0	0
4/20/2024 12:42	61302	EARL_T1	4	4	0	0.78	0.78	0	0	0	0	0	0	0	0	0
4/20/2024 12:42	61303	EARL_T1	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
4/20/2024 12:43	45902	AUBU_T1	7	10	3	1.26	1.07	-0.19	-0.56	-0.55	0	0	0	0	0	0
4/20/2024 12:43	16102	BING_T2	6	7	1	0.37	0.7	0.33	-0.13	-0.11	0	0	0	0	0	0
4/20/2024 12:43	16103	BING_T2	1	2	1	1.6	1.7	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:43	45901	AUBU_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:43	16101	BING_T2	3	3	0	0.3	0.47	0.17	0	0	0	0	0	0	0	0
4/20/2024 12:44	61304	EARL_T1	3	4	1	0.37	0.28	-0.09	0	0	0	0	0	0	0	0
4/20/2024 12:44	61302	EARL_T1	4	4	0	0.78	0.78	0	-0.32	-0.2	2	2	0	1800	1800	0
4/20/2024 12:45	61803	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 12:45	61801	EELI_T2	3	4	1	0.27	0.28	0.01	-1.7	-1.72	2	2	0	1200	1200	0
4/20/2024 12:46	53301	GRAT_T1	2	1	-1	0.15	0.2	0.05	0	0	1	1	0	450	450	0
4/20/2024 12:47	64201	KINZ_T1	0	1	1	0	0.2	0.2	-0.06	-0.71	4	4	0	2400	2400	0
4/20/2024 12:47	64202	KINZ_T1	3	4	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/20/2024 12:47	64203	KINZ_T1	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
4/20/2024 12:47	64204	KINZ_T1	5	7	2	0.38	0.56	0.18	0	0	0	0	0	0	0	0
4/20/2024 12:47	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 12:47	60801	BUCK_T1	6	5	-1	0.28	0.44	0.16	-0.86	-0.85	1	1	0	600	600	0
4/20/2024 12:48	45902	AUBU_T1	9	9	0	1.03	1.14	0.11	-0.56	-0.55	0	0	0	0	0	0
4/20/2024 12:48	45901	AUBU_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/20/2024 12:49	12403	MILF_T1	2	2	0	1.15	1.35	0.2	0	0	0	0	0	0	0	0
4/20/2024 12:49	58401	MORO_T1	2	4	2	0.15	0.15	0	0	0	0	0	0	0	0	0
4/20/2024 12:49	12401	MILF_T1	3	5	2	1	0.66	-0.34	0	0	0	0	0	0	0	0
4/20/2024 12:49	54601	SUMM_T2	2	0	-2	0.15	0	-0.15	-1.9	-1.92	2	2	0	2100	2100	0
4/20/2024 12:49	12402	MILF_T1	1	1	0	3.1	2.9	-0.2	-0.39	-0.39	0	0	0	0	0	0
4/20/2024 12:49	58402	MORO_T1	1	4	3	0.5	0.43	-0.07	-0.61	-0.62	2	2	0	1500	1500	0
4/20/2024 12:50	24204	PROV_T3	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
4/20/2024 12:50	24201	PROV_T3	3	6	3	2.23	1.18	-1.05	-1.5	-1.49	1	1	0	1200	1200	0
4/20/2024 12:51	12603	MACA_T1	2	5	3	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
4/20/2024 12:51	42201	SHEN_T2	2	2	0	0.55	0.8	0.25	0.34	0.35	0	0	0	0	0	0
4/20/2024 12:51	12605	MACA_T1	3	4	1	0.53	0.55	0.02	0	0	0	0	0	0	0	0
4/20/2024 12:51	12604	MACA_T1	5	6	1	0.68	0.55	-0.13	0.28	0.28	0	0	0	0	0	0
4/20/2024 12:51	12602	MACA_T1	3	4	1	0.53	0.33	-0.2	0	0	0	0	0	0	0	0
4/20/2024 12:51	12606	MACA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/20/2024 12:51	12601	MACA_T1	3	4	1	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
4/20/2024 12:51	54601	SUMM_T2	2	0	-2	0.15	0	-0.15	-1.9	-1.92	2	2	0	2100	2100	0
4/20/2024 12:52	60801	BUCK_T1	6	5	-1	0.28	0.44	0.16	-0.86	-0.85	1	1	0	600	600	0
4/20/2024 12:52	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
4/20/2024 12:52	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 12:53	45902	AUBU_T1	9	9	0	1.03	1.14	0.11	-0.55	-0.59	0	0	0	0	0	0
4/20/2024 12:53	45901	AUBU_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/20/2024 12:54	13501	MCMI_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
4/20/2024 12:54	57006	WHHI_T2	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
4/20/2024 12:54	66701	STRA_T1	1	1	0	1.5	1.7	0.2	-0.35	-0.37	1	1	0	600	600	0
4/20/2024 12:54	57004	WHHI_T2	0	1	1	0	0.2	0.2	-0.79	-0.8	0	0	0	0	0	0
4/20/2024 12:54	57003	WHHI_T2	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
4/20/2024 12:55	29402	BELT_T1	7	5	-2	1.5	2	0.5	0	0	0	0	0	0	0	0
4/20/2024 12:55	29401	BELT_T1	11	9	-2	0.46	0.61	0.15	0	0	0	0	0	0	0	0
4/20/2024 12:55	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
4/20/2024 12:56	16302	ALPA_T2	2	2	0	0.3	0.3	0	0.5	0.63	0	0	0	0	0	0
4/20/2024 12:57	29401	BELT_T1	11	9	-2	0.46	0.61	0.15	0	0	2	2	0	1800	1800	0
4/20/2024 12:57	29402	BELT_T1	7	5	-2	1.5	2	0.5	0	0	0	0	0	0	0	0
4/20/2024 12:57	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
4/20/2024 12:58	45902	AUBU_T1	9	9	0	1.03	1.14	0.11	-0.55	-0.59	0	0	0	0	0	0
4/20/2024 12:58	45901	AUBU_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/20/2024 12:58	60801	BUCK_T1	6	5	-1	0.28	0.44	0.16	-0.85	-0.84	1	1	0	600	600	0
4/20/2024 12:58	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 12:59	29402	BELT_T1	7	5	-2	1.5	2	0.5	0	0	0	0	0	0	0	0
4/20/2024 12:59	29401	BELT_T1	11	9	-2	0.46	0.61	0.15	0	0	1	1	0	900	900	0
4/20/2024 13:00	12001	HATF_T1	4	4	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
4/20/2024 13:00	12003	HATF_T1	2	3	1	0.7	0.73	0.03	0	0	0	0	0	0	0	0
4/20/2024 13:00	12005	HATF_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 13:00	12007	HATF_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
4/20/2024 13:00	12002	HATF_T1	3	3	0	0.47	0.47	0	-0.2	-0.22	0	0	0	0	0	0
4/20/2024 13:00	63303	GREE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/20/2024 13:00	12006	HATF_T1	1	4	3	0.2	0.7	0.5	0	0	0	0	0	0	0	0
4/20/2024 13:00	12004	HATF_T1	1	4	3	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
4/20/2024 13:00	63305	GREE_T1	0	0	0	0	0	0	-2.3	-2.27	1	1	0	900	900	0
4/20/2024 13:06	60801	BUCK_T1	5	6	1	0.34	0.38	0.04	-0.85	-0.84	1	1	0	600	600	0
4/20/2024 13:09	45902	AUBU_T1	9	14	5	1.13	0.82	-0.31	-0.59	-0.59	0	0	0	0	0	0
4/20/2024 13:09	45901	AUBU_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/20/2024 13:09	41902	REED_T1	1	2	1	0.2	1	0.8	0.87	0.87	0	0	0	0	0	0
4/20/2024 13:10	41902	REED_T1	1	2	1	0.2	1	0.8	0.87	0.87	0	0	0	0	0	0
4/20/2024 13:10	29402	BELT_T1	5	3	-2	2	3.17	1.17	0	0	0	0	0	0	0	0
4/20/2024 13:10	29401	BELT_T1	9	6	-3	0.6	0.65	0.05	0	0	1	1	0	900	900	0
4/20/2024 13:11	17102	WTRE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 13:11	63305	GREE_T1	0	0	0	0	0	0	-2.27	-2.25	1	1	0	900	900	0
4/20/2024 13:11	63303	GREE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/20/2024 13:11	17101	WTRE_T2	8	8	0	2.88	2.89	0.01	0	0	0	0	0	0	0	0
4/20/2024 13:11	52503	PROG_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/20/2024 13:11	45702	LIND_T2	2	2	0	0.65	0.85	0.2	-0.57	-0.58	0	0	0	0	0	0
4/20/2024 13:11	52502	PROG_T2	5	5	0	0.5	0.6	0.1	-0.72	-0.68	1	1	0	900	900	0
4/20/2024 13:13	12002	HATF_T1	3	3	0	0.47	0.47	0	-0.22	-0.22	0	0	0	0	0	0
4/20/2024 13:13	12007	HATF_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
4/20/2024 13:13	12006	HATF_T1	1	4	3	0.2	0.7	0.5	0	0	0	0	0	0	0	0
4/20/2024 13:13	12005	HATF_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 13:13	12004	HATF_T1	1	4	3	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
4/20/2024 13:13	12001	HATF_T1	4	4	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
4/20/2024 13:13	12003	HATF_T1	2	3	1	0.7	0.73	0.03	0	0	0	0	0	0	0	0
4/20/2024 13:14	45901	AUBU_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/20/2024 13:14	12005	HATF_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 13:14	12003	HATF_T1	2	3	1	0.7	0.73	0.03	0	0	0	0	0	0	0	0
4/20/2024 13:14	12001	HATF_T1	4	4	0	0.35	0.5	0.15	1.21	1.08	1	1	0	600	600	0
4/20/2024 13:14	12002	HATF_T1	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0	0
4/20/2024 13:14	41902	REED_T1	1	2	1	0.2	1	0.8	0.87	0.87	0	0	0	0	0	0
4/20/2024 13:14	45902	AUBU_T1	9	14	5	1.13	0.82	-0.31	-0.59	-0.59	0	0	0	0	0	0
4/20/2024 13:14	12004	HATF_T1	1	4	3	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
4/20/2024 13:14	12006	HATF_T1	1	4	3	0.2	0.7	0.5	0	0	0	0	0	0	0	0
4/20/2024 13:14	12007	HATF_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
4/20/2024 13:15	43302	WATS_T2	4	4	0	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
4/20/2024 13:15	43304	WATS_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
4/20/2024 13:15	59301	MCAL_T1	9	7	-2	0.66	0.71	0.05	-1.78	-1.81	1	1	0	600	600	0
4/20/2024 13:15	61303	EARL_T1	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
4/20/2024 13:15	61302	EARL_T1	4	5	1	0.88	0.68	-0.2	0	0	0	0	0	0	0	0
4/20/2024 13:15	59302	MCAL_T1	4	4	0	0.38	0.45	0.07	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/20/2024 13:15	61304	EARL_T1	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/20/2024 13:16	12002	HATF_T1	3	3	0	0.2	0.63	0.43	0	0	0	0	0	0	0	0
4/20/2024 13:16	12001	HATF_T1	0	4	4	0	0.65	0.65	1.21	1.08	1	1	0	600	600	0
4/20/2024 13:16	12003	HATF_T1	3	4	1	0.67	0.78	0.11	0	0	0	0	0	0	0	0
4/20/2024 13:16	12004	HATF_T1	3	8	5	0.17	0.18	0.01	0	0	0	0	0	0	0	0
4/20/2024 13:16	12007	HATF_T1	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
4/20/2024 13:16	12006	HATF_T1	3	5	2	0.47	0.62	0.15	0	0	0	0	0	0	0	0
4/20/2024 13:16	12005	HATF_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/20/2024 13:16	60801	BUCK_T1	5	7	2	0.44	0.41	-0.03	-0.84	-0.83	1	1	0	600	600	0
4/20/2024 13:18	44202	POIN_T2	2	1	-1	0.35	0.7	0.35	-2.01	-2.05	2	2	0	2400	2400	0
4/20/2024 13:18	52001	LING_T1	5	4	-1	0.38	0.43	0.05	-1.09	-1.1	0	0	0	0	0	0
4/20/2024 13:18	52003	LING_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/20/2024 13:19	40101	HUNT_T2	5	4	-1	0.5	0.28	-0.22	-0.73	-0.75	0	0	0	0	0	0
4/20/2024 13:19	44201	POIN_T1	1	1	0	0.6	0.2	-0.4	-1.57	-1.51	1	1	0	1200	1200	0
4/20/2024 13:19	60801	BUCK_T1	5	7	2	0.44	0.41	-0.03	-0.84	-0.83	1	1	0	600	600	0
4/20/2024 13:19	13604	RICH_T2	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
4/20/2024 13:19	13601	RICH_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/20/2024 13:19	13606	RICH_T2	2	2	0	4.05	4.1	0.05	0	0	0	0	0	0	0	0
4/20/2024 13:19	44202	POIN_T2	2	1	-1	0.35	0.7	0.35	0	0	0	0	0	0	0	0
4/20/2024 13:19	40601	PIGR_T1	7	10	3	0.41	0.48	0.07	0	0	0	0	0	0	0	0
4/20/2024 13:19	40602	PIGR_T1	1	1	0	0.1	0.5	0.4	-0.25	-0.19	2	2	0	1200	1200	0
4/20/2024 13:19	40603	PIGR_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
4/20/2024 13:20	44203	POIN_T2	0	0	0	0	0	0	-0.23	-0.27	1	1	0	900	900	0
4/20/2024 13:20	64101	REFR_T1	4	8	4	0.43	0.38	-0.05	-0.8	-0.83	0	0	0	0	0	0
4/20/2024 13:20	13801	SALI_T1	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/20/2024 13:20	13803	SALI_T1	4	4	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
4/20/2024 13:20	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 13:20	41602	CLEV_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/20/2024 13:20	13805	SALI_T1	4	4	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/20/2024 13:20	13807	SALI_T1	5	5	0	1.06	1.18	0.12	0.13	0.14	0	0	0	0	0	0
4/20/2024 13:20	13804	SALI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 13:21	65207	PRIN_T4	21	47	26	0.1	0.13	0.03	0	0	2	2	0	1800	1800	0
4/20/2024 13:21	65206	PRIN_T4	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 13:21	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 13:22	40601	PIGR_T1	7	10	3	0.41	0.48	0.07	0	0	0	0	0	0	0	0
4/20/2024 13:22	40603	PIGR_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
4/20/2024 13:22	40602	PIGR_T1	1	1	0	0.1	0.5	0.4	-0.12	-0.09	1	1	0	600	600	0
4/20/2024 13:25	45501	DERR_T2	1	1	0	0.9	0.6	-0.3	-0.56	-0.46	2	2	0	1800	1800	0
4/20/2024 13:25	67702	WERN_T2	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
4/20/2024 13:25	67701	WERN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/20/2024 13:25	67703	WERN_T2	3	3	0	0.73	0.73	0	-0.91	-0.96	1	1	0	900	900	0
4/20/2024 13:27	45501	DERR_T2	1	1	0	0.9	0.6	-0.3	-0.56	-0.46	2	2	0	1800	1800	0
4/20/2024 13:29	60801	BUCK_T1	5	7	2	0.44	0.41	-0.03	-0.83	-0.84	1	1	0	600	600	0
4/20/2024 13:32	24105	EHAZ_T1	4	4	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
4/20/2024 13:32	24102	EHAZ_T1	3	1	-2	0.13	0	-0.13	-0.59	-0.6	0	0	0	0	0	0
4/20/2024 13:32	24101	EHAZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/20/2024 13:32	24104	EHAZ_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 13:33	44502	HAMI_T2	5	2	-3	1.04	2.05	1.01	0	0	0	0	0	0	0	0
4/20/2024 13:33	44505	HAMI_T2	7	4	-3	0.56	0.33	-0.23	0	0	0	0	0	0	0	0
4/20/2024 13:33	44504	HAMI_T2	0	0	0	0	0	0	-1.36	-1.32	0	0	0	0	0	0
4/20/2024 13:34	60801	BUCK_T1	6	7	1	0.23	0.43	0.2	-0.83	-0.84	1	1	0	600	600	0
4/20/2024 13:34	41902	REED_T1	1	1	0	1	0.1	-0.9	0.87	0.88	0	0	0	0	0	0
4/20/2024 13:36	60504	NMAN_T2	3	4	1	1.27	1.15	-0.12	0	0	0	0	0	0	0	0
4/20/2024 13:36	39601	LNFD_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 13:36	60502	NMAN_T2	2	7	5	0.3	0.5	0.2	-0.53	-0.61	0	0	0	0	0	0
4/20/2024 13:36	60501	NMAN_T2	6	9	3	2.95	2.11	-0.84	0	0	0	0	0	0	0	0
4/20/2024 13:36	64101	REFR_T1	6	8	2	0.33	0.4	0.07	-0.83	-0.83	0	0	0	0	0	0
4/20/2024 13:37	15204	SFAR_T2	4	4	0	0.8	0.98	0.18	0	0	0	0	0	0	0	0
4/20/2024 13:37	13801	SALI_T1	1	2	1	0.2	0.2	0	0.84	0.84	0	0	0	0	0	0
4/20/2024 13:37	13807	SALI_T1	4	5	1	1.28	1.18	-0.1	0	0	0	0	0	0	0	0
4/20/2024 13:37	13804	SALI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 13:37	13805	SALI_T1	4	1	-3	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/20/2024 13:37	13803	SALI_T1	2	4	2	0.1	0.35	0.25	0	0	0	0	0	0	0	0
4/20/2024 13:37	15203	SFAR_T2	37	78	41	0.31	0.34	0.03	-1.25	-1.27	0	0	0	0	0	0
4/20/2024 13:38	41902	REED_T1	1	1	0	1	0.1	-0.9	0.88	0.87	0	0	0	0	0	0
4/20/2024 13:39	66702	STRA_T1	0	0	0	0	0	0	-0.32	-0.36	2	2	0	1500	1500	0
4/20/2024 13:39	66701	STRA_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
4/20/2024 13:41	51301	WIND_T1	6	6	0	0.8	0.78	-0.02	0	0	0	0	0	0	0	0
4/20/2024 13:41	51303	WIND_T1	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
4/20/2024 13:41	46005	BERW_T1	1	0	-1	0.1	0	-0.1	-1.87	-1.84	2	2	0	2100	2100	0
4/20/2024 13:41	45901	AUBU_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/20/2024 13:41	51305	WIND_T1	1	3	2	1.4	0.6	-0.8	0.16	0.16	0	0	0	0	0	0
4/20/2024 13:41	45902	AUBU_T1	14	27	13	0.81	0.6	-0.21	-0.59	-0.62	0	0	0	0	0	0
4/20/2024 13:43	53502	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 13:43	53501	EVIL_T2	28	30	2	0.58	0.49	-0.09	-1.53	-1.57	0	0	0	0	0	0
4/20/2024 13:43	41502	FAIR_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
4/20/2024 13:44	64304	LINC_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/20/2024 13:44	64302	LINC_T2	0	0	0	0	0	0	0.94	0.86	0	0	0	0	0	0
4/20/2024 13:45	59003	MIFF_T1	2	2	0	0.35	0.35	0	0.25	0.27	0	0	0	0	0	0
4/20/2024 13:45	60801	BUCK_T1	7	8	1	0.41	0.53	0.12	-0.84	-0.84	1	1	0	600	600	0
4/20/2024 13:45	59002	MIFF_T1	4	4	0	0.15	0.38	0.23	0	0	0	0	0	0	0	0
4/20/2024 13:46	45901	AUBU_T1	2	4	2	0.3	0.38	0.08	0	0	0	0	0	0	0	0
4/20/2024 13:46	45902	AUBU_T1	17	85	68	0.76	0.4	-0.36	-0.59	-0.62	0	0	0	0	0	0
4/20/2024 13:47	53501	EVIL_T2	23	29	6	0.51	0.54	0.03	-0.77	-0.79	0	0	0	0	0	0
4/20/2024 13:47	53502	EVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 13:49	40603	PIGR_T1	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
4/20/2024 13:49	13804	SALI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 13:49	13805	SALI_T1	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
4/20/2024 13:49	40601	PIGR_T1	10	39	29	0.47	0.33	-0.14	0	0	0	0	0	0	0	0
4/20/2024 13:49	40602	PIGR_T1	1	2	1	0.5	0.65	0.15	-0.11	-0.13	1	1	0	600	600	0
4/20/2024 13:49	13807	SALI_T1	5	0	-5	1.38	1.12	-0.06	0	0	0	0	0	0	0	0
4/20/2024 13:49	13803	SALI_T1	4	4	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
4/20/2024 13:49	13801	SALI_T1	2	0	-2	0.2	0	-0.2	0.84	0.81	0	0	0	0	0	0
4/20/2024 13:50	66203	SISP_T2	1	1	0	0.8	0.8	0	-1.36	-1.28	1	1	0	1200	1200	0
4/20/2024 13:50	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/20/2024 13:50	11102	EGYP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/20/2024 13:50	60801	BUCK_T1	7	8	1	0.41	0.53	0.12	-0.84	-0.84	1	1	0	600	600	0
4/20/2024 13:51	60501	NMAN_T2	6	28	22	2.67	0.93	-1.74	0	0	0	0	0	0	0	0
4/20/2024 13:51	60605	NCOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/20/2024 13:51	60502	NMAN_T2	4	14	10	0.5	0.46	-0.04	-0.61	-0.58	0	0	0	0	0	0
4/20/2024 13:51	64101	REFR_T1	7	11	4	0.4	0.4	0	-0.83	-0.83	0	0	0	0	0	0
4/20/2024 13:51	60504	NMAN_T2	3	4	1	0.77	1.38	0.61	0	0	0	0	0	0	0	0
4/20/2024 13:52	64101	REFR_T1	7	11	4	0.4	0.4	0	-0.83	-0.83	0	0	0	0	0	0
4/20/2024 13:52	60605	NCOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/20/2024 13:53	45402	WBLO_T2	3	4	1	0.53	0.83	0.3	-1.82	-1.8	1	1	0	900	900	0
4/20/2024 13:53	64101	REFR_T1	7	11	4	0.4	0.4	0	-0.83	-0.83	0	0	0	0	0	0
4/20/2024 13:53	60605	NCOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/20/2024 13:54	14601	SWHI_T1	0	3	3	0	0.1	0.1	-0.99	-0.99	0	0	0	0	0	0
4/20/2024 13:54	14603	SWHI_T1	3	10	7	0.8	0.61	-0.19	0	0	0	0	0	0	0	0
4/20/2024 13:54	14602	SWHI_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
4/20/2024 13:55	14602	SWHI_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
4/20/2024 13:55	60101	COCA_T1	7	11	4	0.79	0.74	-0.05	0.2	0.22	0	0	0	0	0	0
4/20/2024 13:55	60102	COCA_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/20/2024 13:55	14603	SWHI_T1	3	10	7	0.8	0.61	-0.19	0	0	0	0	0	0	0	0
4/20/2024 13:55	14601	SWHI_T1	0	3	3	0	0.1	0.1	-0.99	-0.99	0	0	0	0	0	0
4/20/2024 13:56	45402	WBLO_T2	3	4	1	0.53	0.83	0.3	-1.8	-1.76	1	1	0	900	900	0
4/20/2024 13:56	45902	AUBU_T1	17	85	68	0.76	0.4	-0.36	-0.62	-0.58	0	0	0	0	0	0
4/20/2024 13:56	45901	AUBU_T1	2	4	2	0.3	0.38	0.08	0	0	0	0	0	0	0	0
4/20/2024 13:57	60101	COCA_T1	7	11	4	0.79	0.74	-0.05	0.4	0.44	0	0	0	0	0	0
4/20/2024 13:57	60102	COCA_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/20/2024 13:59	60101	COCA_T1	7	11	4	0.79	0.74	-0.05	0	0	0	0	0	0	0	0
4/20/2024 13:59	53903	HALI_T2	13	21	8	0.84	0.6	-0.24	-0.3	-0.37	0	0	0	0	0	0
4/20/2024 13:59	60102	COCA_T1	1	1	0	0.3	0.2	-0.1	0.43	0.51	1	1	0	600	600	0
4/20/2024 13:59	53901	HALI_T2	3	8	5	0.77	0.51	-0.26	0	0	0	0	0	0	0	0
4/20/2024 13:59	53902	HALI_T2	5	7	2	1.98	1.43	-0.55	0	0	0	0	0	0	0	0
4/20/2024 14:00	61504	EPET_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
4/20/2024 14:00	61502	EPET_T1	1	1	0	0.5	0.7	0.2	-1.25	-1.29	0	0	0	0	0	0
4/20/2024 14:00	57306	MOAL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/20/2024 14:00	60102	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/20/2024 14:00	60101	COCA_T1	8	11	3	0.73	0.74	0.01	0.2	0.22	0	0	0	0	0	0
4/20/2024 14:00	61506	EPET_T2	1	0	-1	0.1	0	-0.1	-1.24	-1.25	1	1	0	900	900	0
4/20/2024 14:00	56802	BENV_T2	10	17	7	0.66	0.55	-0.11	-1.41	-1.39	0	0	0	0	0	0
4/20/2024 14:00	57303	MOAL_T2	1	1	0	7.7	7.5	-0.2	0	0	0	0	0	0	0	0
4/20/2024 14:00	57304	MOAL_T2	3	7	4	0.27	0.24	-0.03	-0.63	-0.68	0	0	0	0	0	0
4/20/2024 14:01	53901	HALI_T2	3	8	5	0.73	0.51	-0.22	0	0	0	0	0	0	0	0
4/20/2024 14:01	60801	BUCK_T1	7	8	1	0.36	0.51	0.15	-0.84	-0.85	1	1	0	600	600	0
4/20/2024 14:01	53902	HALI_T2	5	7	2	1.86	1.4	-0.46	0	0	0	0	0	0	0	0
4/20/2024 14:01	53903	HALI_T2	14	23	9	0.73	0.69	-0.04	-0.15	-0.18	0	0	0	0	0	0
4/20/2024 14:04	54504	ENOL_T2	1	2	1	1	0.65	-0.35	0	0	0	0	0	0	0	0
4/20/2024 14:04	54502	ENOL_T2	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
4/20/2024 14:04	54501	ENOL_T2	2	3	1	0.3	0.43	0.13	0	0	0	0	0	0	0	0
4/20/2024 14:04	54503	ENOL_T2	3	3	0	0.3	0.57	0.27	0	0	0	0	0	0	0	0
4/20/2024 14:04	45902	AUBU_T1	24	85	61	0.64	0.4	-0.24	-0.62	-0.58	0	0	0	0	0	0
4/20/2024 14:04	54505	ENOL_T2	2	3	1	0.55	0.63	0.08	-1.38	-1.36	1	1	0	600	600	0
4/20/2024 14:04	45901	AUBU_T1	1	4	3	0.5	0.38	-0.12	0	0	0	0	0	0	0	0
4/20/2024 14:09	29402	BELT_T1	4	8	4	2.38	1.64	-0.74	0	0	0	0	0	0	0	0
4/20/2024 14:09	29401	BELT_T1	12	53	41	0.42	0.24	-0.18	0	0	0	0	0	0	0	0
4/20/2024 14:10	43202	MVIL_T2	1	1	0	0.2	0.2	0	-0.75	-0.78	0	0	0	0	0	0
4/20/2024 14:10	45901	AUBU_T1	1	4	3	0.5	0.38	-0.12	1.06	1.08	0	0	0	0	0	0
4/20/2024 14:10	45902	AUBU_T1	24	85	61	0.64	0.4	-0.24	0	0	0	0	0	0	0	0
4/20/2024 14:11	15203	SFAR_T2	66	119	53	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
4/20/2024 14:11	40303	TAMA_T3	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
4/20/2024 14:11	64101	REFR_T1	8	9	1	0.38	0.47	0.09	-0.83	-0.84	0	0	0	0	0	0
4/20/2024 14:11	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 14:11	15204	SFAR_T2	4	2	-2	0.98	0.35	-0.63	0.01	0.03	0	0	0	0	0	0
4/20/2024 14:11	40302	TAMA_T3	8	24	16	0.34	0.32	-0.02	0.23	0.26	0	0	0	0	0	0
4/20/2024 14:12	64101	REFR_T1	8	9	1	0.38	0.47	0.09	-0.83	-0.84	0	0	0	0	0	0
4/20/2024 14:12	55003	NEWP_T2	9	11	2	0.3	0.49	0.19	-0.32	-0.32	0	0	0	0	0	0
4/20/2024 14:13	45902	AUBU_T1	24	85	61	0.64	0.4	-0.24	-0.58	-0.57	0	0	0	0	0	0
4/20/2024 14:13	45901	AUBU_T1	1	4	3	0.5	0.38	-0.12	0	0	0	0	0	0	0	0
4/20/2024 14:14	15204	SFAR_T2	4	2	-2	0.98	0.35	-0.63	0	0	0	0	0	0	0	0
4/20/2024 14:14	15203	SFAR_T2	66	119	53	0.37	0.34	-0.03	-1.23	-1.21	0	0	0	0	0	0
4/20/2024 14:15	64203	KINZ_T1	3	1	-2	0.77	0.8	0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/20/2024 14:15	64201	KINZ_T1	7	7	0	0.43	0.29	-0.14	-0.62	-0.53	2	2	0	1200	1200	0
4/20/2024 14:15	64204	KINZ_T1	9	4	-5	0.51	0.65	0.14	0	0	0	0	0	0	0	0
4/20/2024 14:15	60801	BUCK_T1	8	6	-2	0.51	0.42	-0.09	-0.85	-0.86	1	1	0	600	600	0
4/20/2024 14:15	64202	KINZ_T1	4	4	0	0.75	0.48	-0.27	0	0	0	0	0	0	0	0
4/20/2024 14:16	55002	NEWP_T1	15	12	-3	0.99	0.99	0	0	0	0	0	0	0	0	0
4/20/2024 14:16	55001	NEWP_T1	6	8	2	0.35	0.49	0.14	-0.11	-0.13	0	0	0	0	0	0
4/20/2024 14:16	56601	HAMP_T1	36	24	-12	0.3	0.3	0	0	0	0	0	0	0	0	0
4/20/2024 14:16	56603	HAMP_T1	0	0	0	0	0	0	-1.11	-1.16	0	0	0	0	0	0
4/20/2024 14:16	51202	MTON_T2	2	2	0	1.45	1.05	-0.4	0.2	0.19	0	0	0	0	0	0
4/20/2024 14:16	51204	MTON_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/20/2024 14:17	64204	KINZ_T1	9	4	-5	0.51	0.65	0.14	0	0	0	0	0	0	0	0
4/20/2024 14:17	64202	KINZ_T1	4	4	0	0.75	0.48	-0.27	0	0	0	0	0	0	0	0
4/20/2024 14:17	45901	AUBU_T1	4	1	-3	0.38	0.6	0.22	0	0	0	0	0	0	0	0
4/20/2024 14:17	64203	KINZ_T1	3	1	-2	0.77	0.8	0.03	0	0	0	0	0	0	0	0
4/20/2024 14:17	45902	AUBU_T1	85	24	-61	0.4	0.54	0.14	-0.58	-0.57	0	0	0	0	0	0
4/20/2024 14:17	64201	KINZ_T1	7	7	0	0.43	0.29	-0.14	-0.62	-0.53	2	2	0	1200	1200	0
4/20/2024 14:18	15204	SFAR_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
4/20/2024 14:18	15203	SFAR_T2	110	97	-13	0.32	0.34	0.02	-1.23	-1.21	0	0	0	0	0	0
4/20/2024 14:20	57203	ROSS_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
4/20/2024 14:20	57205	ROSS_T1	3	3	0	1.27	1.2	-0.07	0.06	0.07	0	0	0	0	0	0
4/20/2024 14:21	51204	MTON_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/20/2024 14:21	51202	MTON_T2	2	2	0	1.45	1.05	-0.4	0.2	0.19	0	0	0	0	0	0
4/20/2024 14:22	51107	CARL_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/20/2024 14:22	51102	CARL_T1	57	13	-44	0.24	0.46	0.22	0	0	0	0	0	0	0	0
4/20/2024 14:22	51101	CARL_T1	2	2	0	0.55	0.25	-0.3	0	0	0	0	0	0	0	0
4/20/2024 14:22	51108	CARL_T1	4	2	-2	0.33	0.35	0.02	0	0	0	0	0	0	0	0
4/20/2024 14:22	44203	POIN_T2	0	0	0	0	0	0	-0.37	-0.46	1	1	0	900	900	0
4/20/2024 14:22	44202	POIN_T2	1	1	0	0.4	0.8	0.4	-1.01	-1.02	1	1	0	1200	1200	0
4/20/2024 14:22	51109	CARL_T1	1	2	1	1.1	0.5	-0.6	-1	-1.01	1	1	0	1200	1200	0
4/20/2024 14:23	12401	MILF_T1	5	4	-1	0.74	0.65	-0.09	-0.44	-0.43	0	0	0	0	0	0
4/20/2024 14:23	15204	SFAR_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
4/20/2024 14:23	12402	MILF_T1	2	1	-1	1.5	2.6	1.1	0	0	0	0	0	0	0	0
4/20/2024 14:23	15203	SFAR_T2	110	97	-13	0.32	0.34	0.02	-1.23	-1.21	0	0	0	0	0	0
4/20/2024 14:23	12403	MILF_T1	4	3	-1	0.85	1.1	0.25	0	0	0	0	0	0	0	0
4/20/2024 14:24	59301	MCAL_T1	31	12	-19	0.33	0.61	0.28	0	0	0	0	0	0	0	0
4/20/2024 14:24	15203	SFAR_T2	110	97	-13	0.32	0.34	0.02	-1.21	-1.24	0	0	0	0	0	0
4/20/2024 14:24	15204	SFAR_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
4/20/2024 14:24	59302	MCAL_T1	3	5	2	0.53	0.5	-0.03	-0.46	-0.47	1	1	0	600	600	0
4/20/2024 14:26	48302	ORWI_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
4/20/2024 14:26	48303	ORWI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/20/2024 14:27	45901	AUBU_T1	4	1	-3	0.38	0.6	0.22	0	0	0	0	0	0	0	0
4/20/2024 14:27	45902	AUBU_T1	85	24	-61	0.4	0.54	0.14	-0.57	-0.54	0	0	0	0	0	0
4/20/2024 14:28	45902	AUBU_T1	85	24	-61	0.4	0.54	0.14	-0.57	-0.54	0	0	0	0	0	0
4/20/2024 14:28	45901	AUBU_T1	4	1	-3	0.38	0.6	0.22	0	0	0	0	0	0	0	0
4/20/2024 14:29	40901	JESH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/20/2024 14:29	64403	LAND_T1	2	1	-1	0.2	0.1	-0.1	-1.9	-1.92	1	1	0	900	900	0
4/20/2024 14:29	64401	LAND_T1	6	2	-4	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
4/20/2024 14:29	40902	JESH_T1	0	0	0	0	0	0	-1.65	-1.66	1	1	0	600	600	0
4/20/2024 14:30	40901	JESH_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/20/2024 14:30	52004	LING_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/20/2024 14:30	40902	JESH_T1	0	1	1	0	0.1	0.1	-1.65	-1.66	1	1	0	600	600	0
4/20/2024 14:30	64401	LAND_T1	2	1	-1	0.25	0.7	0.45	0	0	0	0	0	0	0	0
4/20/2024 14:30	11205	ELHE_T1	0	0	0	0	0	0	-1.02	-1.03	1	1	0	1200	1200	0
4/20/2024 14:30	64403	LAND_T1	1	1	0	0.1	0.1	0	-3.8	-3.84	2	2	0	1800	1800	0
4/20/2024 14:31	60803	BUCK_T1	0	0	0	0	0	0	-1.18	-1.18	1	1	0	600	600	0
4/20/2024 14:31	60801	BUCK_T1	4	6	2	0.38	0.43	0.05	0	0	0	0	0	0	0	0
4/20/2024 14:32	26402	INOR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 14:32	26401	INOR_T1	1	1	0	8.7	9.6	0.9	0.32	0.29	0	0	0	0	0	0
4/20/2024 14:33	45902	AUBU_T1	24	10	-14	0.54	0.93	0.39	-0.57	-0.54	0	0	0	0	0	0
4/20/2024 14:33	52501	PROG_T1	1	0	-1	0.2	0	-0.2	0.41	0.43	1	1	0	300	300	0
4/20/2024 14:33	45901	AUBU_T1	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/20/2024 14:35	40902	JESH_T1	0	1	1	0	0.1	0.1	-1.65	-1.66	1	1	0	600	600	0
4/20/2024 14:35	40901	JESH_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/20/2024 14:36	52503	PROG_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/20/2024 14:36	52502	PROG_T2	2	4	2	0.45	0.38	-0.07	-0.72	-0.72	1	1	0	900	900	0
4/20/2024 14:36	52501	PROG_T1	1	0	-1	0.2	0	-0.2	0.83	0.86	2	2	0	600	600	0
4/20/2024 14:38	45902	AUBU_T1	24	10	-14	0.54	0.93	0.39	-0.54	-0.52	0	0	0	0	0	0
4/20/2024 14:38	45901	AUBU_T1	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/20/2024 14:40	56803	BENV_T1	2	3	1	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
4/20/2024 14:40	29401	BELT_T1	17	0	-17	0.21	0	-0.21	0	0	0	0	0	0	0	0
4/20/2024 14:40	56801	BENV_T1	40	40	0	0.84	0.84	0	-0.81	-0.81	1	1	0	600	600	0
4/20/2024 14:40	29402	BELT_T1	3	1	-2	3.13	7.4	4.27	0	0	0	0	0	0	0	0
4/20/2024 14:40	45501	DERR_T2	1	1	0	0.3	0.6	0.3	-0.61	-0.59	2	2	0	1800	1800	0
4/20/2024 14:42	45902	AUBU_T1	24	10	-14	0.54	0.93	0.39	-0.54	-0.52	0	0	0	0	0	0
4/20/2024 14:42	56802	BENV_T2	14	32	18	0.46	0.39	-0.07	-1.4	-1.4	0	0	0	0	0	0
4/20/2024 14:42	14205	EALL_T2	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
4/20/2024 14:42	29401	BELT_T1	17	0	-17	0.21	0	-0.21	0	0	0	0	0	0	0	0
4/20/2024 14:42	14204	EALL_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/20/2024 14:42	29402	BELT_T1	3	1	-2	3.13	7.4	4.27	0	0	0	0	0	0	0	0
4/20/2024 14:42	45901	AUBU_T1	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/20/2024 14:43	11405	FARM_T1	4	2	-2	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
4/20/2024 14:43	11402	FARM_T1	11	8	-3	0.66	0.69	0.03	0	0	0	0	0	0	0	0
4/20/2024 14:43	45901	AUBU_T1	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/20/2024 14:43	45902	AUBU_T1	24	10	-14	0.54	0.93	0.39	-0.54	-0.52	0	0	0	0	0	0
4/20/2024 14:43	11404	FARM_T1	7	5	-2	0.36	0.24	-0.12	0	0	0	0	0	0	0	0
4/20/2024 14:43	11406	FARM_T1	1	1	0	0.3	0.1	-0.2	0.21	0.22	0	0	0	0	0	0
4/20/2024 14:45	51401	LYKE_T1	0	1	1	0	0.2	0.2	0.26	0.27	0	0	0	0	0	0
4/20/2024 14:45	53502	EVIL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/20/2024 14:45	40902	JESH_T1	0	1	1	0	0.2	0.2	-1.66	-1.69	1	1	0	600	600	0
4/20/2024 14:45	51402	LYKE_T1	8	20	12	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/20/2024 14:45	53501	EVIL_T2	26	107	81	0.61	0.3	-0.31	-0.77	-0.81	0	0	0	0	0	0
4/20/2024 14:45	40901	JESH_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/20/2024 14:46	56802	BENV_T2	32	16	-16	0.39	0.58	0.19	-1.4	-1.4	0	0	0	0	0	0
4/20/2024 14:46	54505	ENOL_T2	3	3	0	0.57	0.67	0.1	0	0	0	0	0	0	0	0
4/20/2024 14:46	54504	ENOL_T2	2	2	0	3.05	3.35	0.3	0	0	0	0	0	0	0	0
4/20/2024 14:46	52001	LING_T1	0	3	3	0	0.27	0.27	-1.11	-1.11	0	0	0	0	0	0
4/20/2024 14:46	53501	EVIL_T2	26	107	81	0.61	0.3	-0.31	-0.77	-0.81	0	0	0	0	0	0
4/20/2024 14:46	11404	FARM_T1	4	4	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/20/2024 14:46	54503	ENOL_T2	4	3	-1	0.28	0.33	0.05	0	0	0	0	0	0	0	0
4/20/2024 14:46	54501	ENOL_T2	3	4	1	0.53	0.38	-0.15	0	0	0	0	0	0	0	0
4/20/2024 14:46	11405	FARM_T1	2	2	0	0.35	0.35	0	-1.08	-1.05	1	1	0	1200	1200	0
4/20/2024 14:46	11406	FARM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 14:46	11402	FARM_T1	6	8	2	0.38	0.71	0.33	0	0	0	0	0	0	0	0
4/20/2024 14:46	53502	EVIL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/20/2024 14:46	54502	ENOL_T2	1	3	2	0.4	0.27	-0.13	-1.11	-1.11	1	1	0	600	600	0
4/20/2024 14:47	60801	BUCK_T1	6	5	-1	0.42	0.42	0	-0.84	-0.84	1	1	0	600	600	0
4/20/2024 14:47	60803	BUCK_T1	0	0	0	0	0	0	-1.18	-1.17	1	1	0	600	600	0
4/20/2024 14:49	44201	POIN_T1	2	29	27	0.1	0.14	0.04	-1.5	-1.48	1	1	0	1200	1200	0
4/20/2024 14:50	14601	SWHI_T1	2	6	4	0.4	0.28	-0.12	-0.99	-0.97	0	0	0	0	0	0
4/20/2024 14:50	51401	LYKE_T1	0	1	1	0	0.2	0.2	0.26	0.27	0	0	0	0	0	0
4/20/2024 14:50	44202	POIN_T2	1	2	1	0.5	0.1	-0.4	-1.01	-1.02	1	1	0	1200	1200	0
4/20/2024 14:50	14603	SWHI_T1	9	9	0	0.54	0.59	0.05	0	0	0	0	0	0	0	0
4/20/2024 14:50	14602	SWHI_T1	1	2	1	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
4/20/2024 14:50	51402	LYKE_T1	8	20	12	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/20/2024 14:51	44202	POIN_T2	1	2	1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/20/2024 14:51	44203	POIN_T2	0	0	0	0	0	0	-0.5	-0.45	1	1	0	900	900	0
4/20/2024 14:52	66701	STRA_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
4/20/2024 14:52	60801	BUCK_T1	6	5	-1	0.42	0.42	0	-0.84	-0.84	1	1	0	600	600	0
4/20/2024 14:52	66703	STRA_T1	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
4/20/2024 14:54	45902	AUBU_T1	5	10	5	0.82	0.94	0.12	-0.52	-0.52	0	0	0	0	0	0
4/20/2024 14:54	45901	AUBU_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/20/2024 14:56	29402	BELT_T1	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
4/20/2024 14:56	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 14:59	45901	AUBU_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/20/2024 14:59	45902	AUBU_T1	5	10	5	0.82	0.94	0.12	-0.52	-0.52	0	0	0	0	0	0
4/20/2024 14:59	44505	HAMI_T2	4	0	-4	0.25	0	-0.25	0	0	0	0	0	0	0	0
4/20/2024 14:59	44502	HAMI_T2	2	2	0	1.95	1.85	-0.1	-0.94	-1.02	0	0	0	0	0	0
4/20/2024 15:00	62106	ELAN_T1	0	1	1	0	0.3	0.3	-0.01	-0.02	0	0	0	0	0	0
4/20/2024 15:00	62105	ELAN_T1	0	1	1	0	0.9	0.9	0.41	0.41	0	0	0	0	0	0
4/20/2024 15:00	11901	ETEX_T2	4	4	0	0.55	0.58	0.03	0.29	0.32	0	0	0	0	0	0
4/20/2024 15:00	11904	ETEX_T2	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
4/20/2024 15:04	40902	JESH_T1	1	1	0	0.1	0.2	0.1	-1.69	-1.66	1	1	0	600	600	0
4/20/2024 15:04	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 15:05	10702	CATA_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 15:05	10707	CATA_T2	2	1	-1	0.8	1.3	0.5	0	0	0	0	0	0	0	0
4/20/2024 15:05	10701	CATA_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/20/2024 15:05	10705	CATA_T2	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
4/20/2024 15:06	54601	SUMM_T2	1	6	5	0.5	0.16	-0.34	-1.91	-1.9	2	2	0	2100	2100	0
4/20/2024 15:12	12701	MACU_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
4/20/2024 15:13	59202	THOM_T1	82	59	-23	0.23	0.24	0.01	0	0	0	0	0	0	0	0
4/20/2024 15:13	45901	AUBU_T1	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/20/2024 15:13	45902	AUBU_T1	10	5	-5	0.93	1.28	0.35	-0.52	-0.51	0	0	0	0	0	0
4/20/2024 15:13	59201	THOM_T1	3	4	1	0.4	0.4	0	0	0	0	0	0	0	0	0
4/20/2024 15:14	15704	TANN_T1	0	0	0	0	0	0	-1.18	-1.18	0	0	0	0	0	0
4/20/2024 15:14	60102	COCA_T1	1	3	2	0.1	0.37	0.27	0.12	0.31	1	1	0	600	600	0
4/20/2024 15:14	25603	ARRO_T1	25	39	14	0.18	0.26	0.08	-0.21	-0.21	0	0	0	0	0	0
4/20/2024 15:14	21204	ECAR_T2	1	1	0	0	0.1	0.1	-0.77	-0.76	0	0	0	0	0	0
4/20/2024 15:14	21206	ECAR_T2	1	1	0	8.1	8.2	0.1	0	0	0	0	0	0	0	0
4/20/2024 15:14	60101	COCA_T1	9	11	2	0.59	0.75	0.16	0	0	0	0	0	0	0	0
4/20/2024 15:14	15701	TANN_T1	2	2	0	2.5	4.2	1.7	0	0	0	0	0	0	0	0
4/20/2024 15:14	29402	BELT_T1	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
4/20/2024 15:15	45901	AUBU_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/20/2024 15:15	45902	AUBU_T1	5	5	0	1.28	0.8	-0.48	-0.52	-0.51	0	0	0	0	0	0
4/20/2024 15:15	59201	THOM_T1	4	2	-2	0.4	0.55	0.15	0	0	0	0	0	0	0	0
4/20/2024 15:15	59202	THOM_T1	50	22	-28	0.22	0.42	0.2	0	0	0	0	0	0	0	0
4/20/2024 15:16	57203	ROSS_T1	0	2	2	0	0.25	0.25	-0.35	-0.36	0	0	0	0	0	0
4/20/2024 15:16	57205	ROSS_T1	2	3	1	1.15	1.07	-0.08	0	0	0	0	0	0	0	0
4/20/2024 15:16	52004	LING_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
4/20/2024 15:18	64701	LITI_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
4/20/2024 15:18	65401	MARI_T1	3	1	-2	0.2	0.1	-0.1	-0.36	-0.36	0	0	0	0	0	0
4/20/2024 15:18	65402	MARI_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/20/2024 15:19	43302	WATS_T2	4	4	0	0.63	0.43	-0.2	0	0	0	0	0	0	0	0
4/20/2024 15:19	57003	WHHI_T2	3	1	-2	0.37	0.6	0.23	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/20/2024 15:19	25603	ARRO_T1	38	36	-2	0.26	0.17	-0.09	0	0	0	0	0	0	0	0
4/20/2024 15:19	43301	WATS_T2	0	0	0	0	0	0	-0.79	-0.79	1	1	0	900	900	0
4/20/2024 15:19	57004	WHHI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 15:19	65003	NEFF_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
4/20/2024 15:19	57006	WHHI_T2	2	2	0	0.85	0.75	-0.1	1.18	1.15	1	1	0	600	600	0
4/20/2024 15:19	25601	ARRO_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
4/20/2024 15:19	65005	NEFF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/20/2024 15:19	65001	NEFF_T2	1	0	-1	0.1	0	-0.1	-1.25	-1.2	1	1	0	1200	1200	0
4/20/2024 15:22	51204	MTON_T2	2	1	-1	0.25	0.2	-0.05	-1.45	-1.46	2	2	0	1500	1500	0
4/20/2024 15:22	51202	MTON_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
4/20/2024 15:22	14204	EALL_T2	3	0	-3	0.2	0	-0.2	-0.78	-0.75	0	0	0	0	0	0
4/20/2024 15:23	51202	MTON_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
4/20/2024 15:23	51204	MTON_T2	2	1	-1	0.25	0.2	-0.05	-2.92	-2.92	4	4	0	3000	3000	0
4/20/2024 15:24	67701	WERN_T2	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
4/20/2024 15:24	67702	WERN_T2	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/20/2024 15:24	67703	WERN_T2	2	2	0	1.1	0.8	-0.3	-0.93	-0.93	1	1	0	900	900	0
4/20/2024 15:25	45902	AUBU_T1	5	5	0	1.28	0.8	-0.48	-0.51	-0.54	0	0	0	0	0	0
4/20/2024 15:25	45901	AUBU_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/20/2024 15:26	59202	THOM_T1	50	22	-28	0.22	0.42	0.2	0	0	0	0	0	0	0	0
4/20/2024 15:26	59201	THOM_T1	4	2	-2	0.4	0.55	0.15	0	0	0	0	0	0	0	0
4/20/2024 15:30	41202	KENM_T2	1	1	0	1	1.1	0.1	-0.65	-0.64	0	0	0	0	0	0
4/20/2024 15:30	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 15:31	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/20/2024 15:31	45902	AUBU_T1	4	6	2	0.83	0.65	-0.18	-0.51	-0.54	0	0	0	0	0	0
4/20/2024 15:37	60803	BUCK_T1	0	0	0	0	0	0	-1.19	-1.18	1	1	0	600	600	0
4/20/2024 15:40	13701	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 15:40	13704	SCHN_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
4/20/2024 15:40	67501	WEWL_T1	2	2	0	0.55	0.4	-0.15	-1.17	-1.27	1	1	0	600	600	0
4/20/2024 15:41	62104	ELAN_T1	0	0	0	0	0	0	0.24	0.16	1	1	0	1200	1200	0
4/20/2024 15:41	62106	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/20/2024 15:41	62105	ELAN_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/20/2024 15:42	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/20/2024 15:42	45902	AUBU_T1	4	6	2	0.83	0.65	-0.18	-0.54	-0.54	0	0	0	0	0	0
4/20/2024 15:43	66001	RHEE_T2	0	2	2	0	0.2	0.2	-0.73	-0.67	1	1	0	900	900	0
4/20/2024 15:43	66002	RHEE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 15:44	43302	WATS_T2	4	4	0	0.43	0.43	0	0	0	0	0	0	0	0	0
4/20/2024 15:44	43301	WATS_T2	0	0	0	0	0	0	-0.82	-0.83	1	1	0	900	900	0
4/20/2024 15:44	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 15:47	45902	AUBU_T1	4	8	4	0.7	0.5	-0.2	-0.54	-0.54	0	0	0	0	0	0
4/20/2024 15:47	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/20/2024 15:47	63602	LETO_T1	2	12	10	0.4	0.2	-0.2	-0.48	-0.44	0	0	0	0	0	0
4/20/2024 15:48	58402	MORO_T1	0	0	0	0	0	0	-0.59	-0.6	2	2	0	1500	1500	0
4/20/2024 15:48	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 15:52	52001	LING_T1	0	0	0	0	0	0	-1.1	-1.11	0	0	0	0	0	0
4/20/2024 15:53	66002	RHEE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/20/2024 15:53	54201	PENN_T1	11	24	13	0.8	0.48	-0.32	0	0	0	0	0	0	0	0
4/20/2024 15:53	44302	BEAV_T2	0	6	6	0	0.28	0.28	0	0	0	0	0	0	0	0
4/20/2024 15:53	54203	PENN_T1	19	19	0	0.82	0.95	0.13	0.04	0.02	0	0	0	0	0	0
4/20/2024 15:53	44301	BEAV_T2	0	6	6	0	0.3	0.3	-0.55	-0.58	1	1	0	600	600	0
4/20/2024 15:53	66001	RHEE_T2	0	3	3	0	0.47	0.47	-0.67	-0.7	1	1	0	900	900	0
4/20/2024 15:54	51401	LYKE_T1	1	0	-1	0.1	0	-0.1	0.25	0.27	0	0	0	0	0	0
4/20/2024 15:54	51402	LYKE_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 15:56	44301	BEAV_T2	0	6	6	0	0.3	0.3	-0.58	-0.56	1	1	0	600	600	0
4/20/2024 15:56	44302	BEAV_T2	0	6	6	0	0.28	0.28	0	0	0	0	0	0	0	0
4/20/2024 15:57	47001	HUGH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 15:57	66002	RHEE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/20/2024 15:57	51402	LYKE_T1	2	2	0	0.1	0.1	0	-0.96	-1	0	0	0	0	0	0
4/20/2024 15:57	66001	RHEE_T2	0	3	3	0	0.47	0.47	-0.67	-0.7	1	1	0	900	900	0
4/20/2024 15:57	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/20/2024 15:57	47002	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 15:57	51401	LYKE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 15:57	45902	AUBU_T1	4	8	4	0.7	0.5	-0.2	-0.54	-0.54	0	0	0	0	0	0
4/20/2024 15:59	52004	LING_T2	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
4/20/2024 15:59	46102	MACI_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
4/20/2024 15:59	43302	WATS_T2	4	4	0	0.43	0.38	-0.05	-0.86	-0.86	2	2	0	1800	1800	0
4/20/2024 15:59	51402	LYKE_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 15:59	51401	LYKE_T1	1	0	-1	0.1	0	-0.1	0.25	0.27	0	0	0	0	0	0
4/20/2024 15:59	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 16:01	54502	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/20/2024 16:01	54504	ENOL_T2	1	1	0	5.3	0	-5.3	0	0	0	0	0	0	0	0
4/20/2024 16:01	54505	ENOL_T2	1	2	1	0.5	0.45	-0.05	-1.36	-1.34	1	1	0	600	600	0
4/20/2024 16:05	12202	FOGE_T2	2	8	6	0.5	0.88	0.38	-0.62	-0.57	1	1	0	600	600	0
4/20/2024 16:05	45901	AUBU_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/20/2024 16:05	45902	AUBU_T1	6	7	1	0.58	0.47	-0.11	-0.54	-0.54	0	0	0	0	0	0
4/20/2024 16:06	57006	WHHI_T2	3	1	-2	0.43	0.7	0.27	1.14	1.14	1	1	0	600	600	0
4/20/2024 16:06	57003	WHHI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/20/2024 16:06	57004	WHHI_T2	2	0	-2	1.65	0	-1.65	0	0	0	0	0	0	0	0
4/20/2024 16:09	29402	BELT_T1	1	1	0	7	7	0	0	0	0	0	0	0	0	0
4/20/2024 16:12	51108	CARL_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/20/2024 16:12	51102	CARL_T1	2	8	6	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
4/20/2024 16:12	51101	CARL_T1	1	1	0	0.4	0.2	-0.2	-1.24	-1.22	1	1	0	600	600	0
4/20/2024 16:16	51102	CARL_T1	8	4	-4	0.23	0.35	0.12	0	0	0	0	0	0	0	0
4/20/2024 16:16	45901	AUBU_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/20/2024 16:16	51107	CARL_T1	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
4/20/2024 16:16	51108	CARL_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/20/2024 16:16	45902	AUBU_T1	7	3	-4	0.47	0.5	0.03	-0.54	-0.53	0	0	0	0	0	0
4/20/2024 16:16	51101	CARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/20/2024 16:20	45901	AUBU_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/20/2024 16:20	45902	AUBU_T1	7	3	-4	0.47	0.5	0.03	-0.54	-0.53	0	0	0	0	0	0
4/20/2024 16:27	56601	HAMP_T1	15	1	-14	0.21	0.1	-0.11	-1.66	-1.79	0	0	0	0	0	0
4/20/2024 16:27	29402	BELT_T1	1	1	0	7	6.9	-0.1	0	0	0	0	0	0	0	0
4/20/2024 16:27	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 16:30	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 16:30	54202	PENN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/20/2024 16:34	65802	RTWN_T2	1	1	0	0.7	0.7	0	-0.5	-0.52	0	0	0	0	0	0
4/20/2024 16:37	65802	RTWN_T2	1	1	0	0.7	0.7	0	-0.5	-0.52	0	0	0	0	0	0
4/20/2024 16:38	59102	WALK_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/20/2024 16:38	59101	WALK_T2	0	0	0	0	0	0	0.87	1.34	0	0	0	0	0	0
4/20/2024 16:42	45902	AUBU_T1	3	3	0	0.5	0.5	0	-0.54	-0.59	0	0	0	0	0	0
4/20/2024 16:42	57203	ROSS_T1	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
4/20/2024 16:42	57205	ROSS_T1	1	1	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
4/20/2024 16:44	45902	AUBU_T1	3	3	0	0.5	0.5	0	-0.54	-0.59	0	0	0	0	0	0
4/20/2024 16:44	45501	DERR_T2	1	1	0	0.7	0.5	-0.2	-0.63	-0.63	2	2	0	1800	1800	0
4/20/2024 16:44	56802	BENV_T2	3	3	0	0.5	0.5	0	-1.44	-1.4	0	0	0	0	0	0
4/20/2024 16:45	56802	BENV_T2	2	3	1	0.65	0.63	-0.02	-1.44	-1.4	0	0	0	0	0	0
4/20/2024 16:45	45501	DERR_T2	1	1	0	0.5	0.5	0	-0.63	-0.63	2	2	0	1800	1800	0
4/20/2024 16:49	56801	BENV_T1	8	11	3	0.45	0.28	-0.17	-0.87	-0.88	1	1	0	600	600	0
4/20/2024 16:49	56803	BENV_T1	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/20/2024 16:52	40101	HUNT_T2	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
4/20/2024 16:53	13701	SCHN_T2	0	0	0	0	0	0	-0.09	-0.08	1	1	0	600	600	0
4/20/2024 16:55	45902	AUBU_T1	3	3	0	0.4	0.8	0.4	-0.59	-0.62	0	0	0	0	0	0
4/20/2024 17:00	63801	HEMP_T1	2	2	0	0.6	0.5	-0.1	-0.27	-0.36	0	0	0	0	0	0
4/20/2024 17:00	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
4/20/2024 17:00	45902	AUBU_T1	1	3	2	1.1	0.77	-0.33	-0.59	-0.62	0	0	0	0	0	0
4/20/2024 17:27	45902	AUBU_T1	3	3	0	0.77	0.33	-0.44	-0.63	-0.62	0	0	0	0	0	0
4/20/2024 17:32	45902	AUBU_T1	3	2	-1	0.33	0.3	-0.03	-0.63	-0.62	0	0	0	0	0	0
4/20/2024 17:51	55001	NEWP_T1	0	1	1	0	0.1	0.1	-0.3	-0.31	0	0	0	0	0	0
4/20/2024 17:51	55002	NEWP_T1	5	6	1	0.42	0.58	0.16	0	0	0	0	0	0	0	0
4/20/2024 17:57	45902	AUBU_T1	1	2	1	0.5	0.25	-0.25	-0.57	-0.6	0	0	0	0	0	0
4/20/2024 17:58	45902	AUBU_T1	1	2	1	0.5	0.25	-0.25	-0.57	-0.6	0	0	0	0	0	0
4/20/2024 18:04	45902	AUBU_T1	2	0	-2	0.25	0	-0.25	-0.57	-0.6	0	0	0	0	0	0
4/20/2024 18:13	17001	RIRO_T1	0	0	0	0	0	0	-0.04	-0.07	0	0	0	0	0	0
4/20/2024 18:25	45902	AUBU_T1	0	0	0	0	0	0	-0.56	-0.62	0	0	0	0	0	0
4/20/2024 18:29	45902	AUBU_T1	0	0	0	0	0	0	-0.56	-0.62	0	0	0	0	0	0
4/20/2024 19:10	29401	BELT_T1	0	2	2	0	0.1	0.1	0	0	1	1	0	900	900	0
4/20/2024 19:10	29402	BELT_T1	1	1	0	7.6	7.9	0.3	0	0	0	0	0	0	0	0
4/20/2024 19:21	52004	LING_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
4/20/2024 19:22	65603	QVIL_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
4/20/2024 19:26	16605	PONO_T1	0	0	0	0	0	0	-0.79	-0.78	1	1	0	1200	1200	0
4/20/2024 22:18	64201	KINZ_T1	1	1	0	0.5	0.9	0.4	-0.45	-0.41	1	1	0	900	900	0
4/20/2024 22:18	46504	LOHA_T1	6	41	35	0.57	0.36	-0.21	0	0	0	0	0	0	0	0
4/20/2024 22:18	64203	KINZ_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/20/2024 22:18	63602	LETO_T1	110	111	1	0.23	0.24	0.01	-0.66	-0.62	0	0	0	0	0	0
4/20/2024 22:18	60803	BUCK_T1	5	8	3	0.1	0.1	0	-1.26	-1.26	1	1	0	600	600	0
4/20/2024 22:18	12002	HATF_T1	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
4/20/2024 22:18	20403	ASHF_T2	36	36	0	0.63	0.73	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:18	40303	TAMA_T3	2	2	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
4/20/2024 22:18	60502	NMAN_T2	0	1	1	0	0.2	0.2	-0.74	-0.72	0	0	0	0	0	0
4/20/2024 22:18	46506	LOHA_T1	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
4/20/2024 22:18	64204	KINZ_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
4/20/2024 22:18	40302	TAMA_T3	42	41	-1	0.41	0.35	-0.06	0.24	0.24	0	0	0	0	0	0
4/20/2024 22:18	67703	WERN_T2	0	0	0	0	0	0	-3.26	-3.3	3	3	0	2700	2700	0
4/20/2024 22:18	65207	PRIN_T4	85	98	13	0.17	0.15	-0.02	0	0	2	2	0	1800	1800	0
4/20/2024 22:18	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:18	29402	BELT_T1	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
4/20/2024 22:18	67702	WERN_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
4/20/2024 22:18	64202	KINZ_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
4/20/2024 22:18	45901	AUBU_T1	46	45	-1	0.19	0.17	-0.02	0	0	0	0	0	0	0	0
4/20/2024 22:18	61101	BERK_T5	1	0	-1	0.1	0	-0.1	-0.93	-0.93	0	0	0	0	0	0
4/20/2024 22:18	45902	AUBU_T1	481	522	41	0.5	0.43	-0.07	-0.8	-0.8	0	0	0	0	0	0
4/20/2024 22:18	60801	BUCK_T1	11	16	5	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
4/20/2024 22:18	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:18	12004	HATF_T1	11	14	3	0.12	0.13	0.01	0	0	0	0	0	0	0	0
4/20/2024 22:18	60501	NMAN_T2	3	3	0	5.17	5.4	0.23	0	0	0	0	0	0	0	0
4/20/2024 22:18	52502	PROG_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
4/20/2024 22:18	66203	SISP_T2	0	0	0	0	0	0	-1.43	-1.44	1	1	0	1200	1200	0
4/20/2024 22:18	12005	HATF_T1	5	6	1	0.36	0.38	0.02	0	0	0	0	0	0	0	0
4/20/2024 22:18	20401	ASHF_T2	4	9	5	0.18	0.2	0.02	-0.51	-0.53	0	0	0	0	0	0
4/20/2024 22:18	66001	RHEE_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
4/20/2024 22:19	56803	BENV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 22:19	13805	SALI_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/20/2024 22:19	54201	PENN_T1	215	228	13	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
4/20/2024 22:19	41902	REED_T1	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/20/2024 22:19	53502	EVIL_T2	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
4/20/2024 22:19	15203	SFAR_T2	103	135	32	0.2	0.2	0	-1.42	-1.4	0	0	0	0	0	0
4/20/2024 22:19	12604	MACA_T1	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
4/20/2024 22:19	12004	HATF_T1	11	14	3	0.12	0.13	0.01	0	0	0	0	0	0	0	0
4/20/2024 22:19	42802	SELI_T1	1	1	0	0.5	0.7	0.2	-0.08	-0.08	0	0	0	0	0	0
4/20/2024 22:19	59202	THOM_T1	67	66	-1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
4/20/2024 22:19	42903	MIDD_T2	2	2	0	0.7	0.8	0.1	-0.33	-0.34	0	0	0	0	0	0
4/20/2024 22:19	51102	CARL_T1	117	134	17	0.3	0.38	0.08	0	0	0	0	0	0	0	0
4/20/2024 22:19	51401	LYKE_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
4/20/2024 22:19	56601	HAMP_T1	0	0	0	0	0	0	-0.7	-0.78	0	0	0	0	0	0
4/20/2024 22:19	51101	CARL_T1	1	0	-1	0.1	0	-0.1	-1.55	-1.58	1	1	0	600	600	0
4/20/2024 22:19	54205	PENN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 22:19	56603	HAMP_T1	0	0	0	0	0	0	-1.26	-1.26	0	0	0	0	0	0
4/20/2024 22:19	42902	MIDD_T2	0	0	0	0	0	0	-0.81	-0.78	0	0	0	0	0	0
4/20/2024 22:19	52501	PROG_T1	0	0	0	0	0	0	0.3	0.33	1	1	0	300	300	0
4/20/2024 22:19	54203	PENN_T1	48	20	-28	0.67	1.41	0.74	-0.08	-0.1	0	0	0	0	0	0
4/20/2024 22:19	45901	AUBU_T1	46	45	-1	0.19	0.17	-0.02	0	0	0	0	0	0	0	0
4/20/2024 22:19	53902	HALI_T2	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:19	65503	MOJO_T2	16	26	10	0.25	0.37	0.12	-0.74	-0.73	0	0	0	0	0	0
4/20/2024 22:19	13704	SCHN_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
4/20/2024 22:19	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:19	44502	HAMI_T2	1	1	0	4.1	4.1	0	0	0	0	0	0	0	0	0
4/20/2024 22:19	59101	WALK_T2	0	0	0	0	0	0	1.34	1.24	0	0	0	0	0	0
4/20/2024 22:19	55001	NEWP_T1	0	1	1	0	0.5	0.5	-0.24	-0.13	0	0	0	0	0	0
4/20/2024 22:19	56501	ROCK_T2	2	2	0	0.5	0.4	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/20/2024 22:19	16301	ALPA_T1	148	170	22	0.18	0.17	-0.01	-0.57	-0.59	0	0	0	0	0	0
4/20/2024 22:19	60101	COCA_T1	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
4/20/2024 22:19	59201	THOM_T1	3	4	1	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
4/20/2024 22:19	51204	MTON_T2	0	0	0	0	0	0	-1.51	-1.51	2	2	0	1500	1500	0
4/20/2024 22:19	54202	PENN_T2	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
4/20/2024 22:19	65502	MOJO_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:19	44203	POIN_T2	0	0	0	0	0	0	-0.8	-0.85	1	1	0	900	900	0
4/20/2024 22:19	51107	CARL_T1	0	0	0	0	0	0	-0.96	-0.9	0	0	0	0	0	0
4/20/2024 22:19	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:19	51109	CARL_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 22:19	67703	WERN_T2	0	0	0	0	0	0	-1.09	-1.1	1	1	0	900	900	0
4/20/2024 22:19	59003	MIFF_T1	1	1	0	0.6	0.6	0	0.26	0.26	0	0	0	0	0	0
4/20/2024 22:19	12005	HATF_T1	5	6	1	0.36	0.38	0.02	0	0	0	0	0	0	0	0
4/20/2024 22:19	53903	HALI_T2	2	2	0	1.5	1.8	0.3	-0.43	-0.43	0	0	0	0	0	0
4/20/2024 22:19	10801	CHHI_T1	0	0	0	0	0	0	-1.1	-1.08	1	1	0	900	900	0
4/20/2024 22:19	57004	WHHI_T2	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
4/20/2024 22:19	55002	NEWP_T1	6	6	0	1.32	1.42	0.1	-0.31	-0.31	0	0	0	0	0	0
4/20/2024 22:19	53501	EVIL_T2	10	83	73	0.51	0.18	-0.33	-2.68	-2.68	0	0	0	0	0	0
4/20/2024 22:19	13807	SALI_T1	5	0	-5	0.12	0	-0.12	0.11	0.12	0	0	0	0	0	0
4/20/2024 22:19	56802	BENV_T2	100	197	97	0.16	0.4	0.24	-6.2	-6.32	0	0	0	0	0	0
4/20/2024 22:19	51202	MTON_T2	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
4/20/2024 22:19	12001	HATF_T1	0	0	0	0	0	0	1.19	1.24	1	1	0	600	600	0
4/20/2024 22:19	13804	SALI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 22:19	25503	MADI_T1	170	124	-46	0.21	0.21	0	-1.06	-1.05	0	0	0	0	0	0
4/20/2024 22:19	44504	HAMI_T2	0	0	0	0	0	0	-1.43	-1.44	0	0	0	0	0	0
4/20/2024 22:19	56801	BENV_T1	14	19	5	0.44	0.62	0.18	-1.84	-1.86	2	2	0	1200	1200	0
4/20/2024 22:19	12701	MACU_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/20/2024 22:19	53901	HALI_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:19	44301	BEAV_T2	0	0	0	0	0	0	-0.64	-0.65	1	1	0	600	600	0
4/20/2024 22:19	29402	BELT_T1	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
4/20/2024 22:19	57003	WHHI_T2	2	3	1	0.45	0.45	0	0	0	0	0	0	0	0	0
4/20/2024 22:19	40101	HUNT_T2	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
4/20/2024 22:19	43301	WATS_T2	0	0	0	0	0	0	-0.8	-0.8	1	1	0	900	900	0
4/20/2024 22:19	43302	WATS_T2	4	4	0	0.58	0.6	0.02	0	0	0	0	0	0	0	0
4/20/2024 22:19	57002	WHHI_T2	0	0	0	0	0	0	-0.3	-0.33	0	0	0	0	0	0
4/20/2024 22:19	45902	AUBU_T1	481	522	41	0.5	0.43	-0.07	-0.8	-0.8	0	0	0	0	0	0
4/20/2024 22:19	57006	WHHI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/20/2024 22:19	59002	MIFF_T1	6	6	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/20/2024 22:19	12602	MACA_T1	0	0	0	0	0	0	-0.44	-0.48	0	0	0	0	0	0
4/20/2024 22:19	51402	LYKE_T1	12	17	5	0.13	0.24	0.11	0	0	0	0	0	0	0	0
4/20/2024 22:19	51305	WIND_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
4/20/2024 22:20	17401	FOHI_T1	0	0	0	0	0	0	-1.05	-1.06	0	0	0	0	0	0
4/20/2024 22:20	13803	SALI_T1	0	0	0	0	0	0	-0.41	-0.43	1	1	0	1200	1200	0
4/20/2024 22:20	42902	MIDD_T2	0	0	0	0	0	0	-0.81	-0.78	0	0	0	0	0	0
4/20/2024 22:20	45902	AUBU_T1	481	522	41	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
4/20/2024 22:20	42903	MIDD_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:20	12807	MICK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/20/2024 22:20	45501	DERR_T2	1	1	0	0.1	0.2	0.1	-1.8	-1.78	4	4	0	3600	3600	0
4/20/2024 22:20	24702	FLND_T2	0	0	0	0	0	0	-0.63	-0.82	1	1	0	1200	1200	0
4/20/2024 22:20	61302	EARL_T1	0	0	0	0	0	0	0.68	0.66	1	1	0	600	600	0
4/20/2024 22:20	49804	UNIV_T1	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
4/20/2024 22:20	45901	AUBU_T1	46	45	-1	0.19	0.17	-0.02	1.09	1.09	0	0	0	0	0	0
4/20/2024 22:20	53501	EVIL_T2	10	83	73	0.51	0.18	-0.33	-0.89	-0.89	0	0	0	0	0	0
4/20/2024 22:20	44301	BEAV_T2	0	0	0	0	0	0	-0.64	-0.65	1	1	0	600	600	0
4/20/2024 22:20	16102	BING_T2	2	0	-2	0.15	0	-0.15	-0.22	-0.23	0	0	0	0	0	0
4/20/2024 22:20	13807	SALI_T1	5	0	-5	0.12	0	-0.12	0	0	0	0	0	0	0	0
4/20/2024 22:20	15104	UPHA_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
4/20/2024 22:20	49803	UNIV_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
4/20/2024 22:20	54501	ENOL_T2	3	1	-2	0.13	0.1	-0.03	-0.6	-0.6	1	1	0	600	600	0
4/20/2024 22:20	67605	WARW_T1	18	34	16	0.63	0.65	0.02	-1.1	-1.11	0	0	0	0	0	0
4/20/2024 22:20	55003	NEWP_T2	10	9	-1	0.47	0.54	0.07	-0.3	-0.29	0	0	0	0	0	0
4/20/2024 22:20	54502	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
4/20/2024 22:20	15201	SFAR_T1	0	0	0	0	0	0	-0.19	-0.22	1	1	0	1200	1200	0
4/20/2024 22:20	14601	SWHI_T1	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
4/20/2024 22:20	27603	PIRI_T2	0	0	0	0	0	0	-1.84	-1.84	2	2	0	1800	1800	0
4/20/2024 22:20	12801	MICK_T1	0	0	0	0	0	0	-0.35	-0.41	1	1	0	600	600	0
4/20/2024 22:20	40101	HUNT_T2	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
4/20/2024 22:20	13804	SALI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 22:20	66703	STRA_T1	0	5	5	0	0.23	0.23	-0.46	-0.49	0	0	0	0	0	0
4/20/2024 22:20	12803	MICK_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/20/2024 22:20	14404	SSLA_T1	1	1	0	5.5	5.4	-0.1	-0.05	-0.05	0	0	0	0	0	0
4/20/2024 22:20	53502	EVIL_T2	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
4/20/2024 22:20	56802	BENV_T2	100	197	97	0.16	0.4	0.24	-1.55	-1.58	0	0	0	0	0	0
4/20/2024 22:20	14403	SSLA_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
4/20/2024 22:20	56601	HAMP_T1	0	0	0	0	0	0	-0.7	-0.78	0	0	0	0	0	0
4/20/2024 22:20	14205	EALL_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
4/20/2024 22:20	13805	SALI_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/20/2024 22:20	54505	ENOL_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/20/2024 22:20	58402	MORO_T1	0	0	0	0	0	0	-0.67	-0.64	2	2	0	1500	1500	0
4/20/2024 22:20	12701	MACU_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/20/2024 22:21	22602	KIMB_T1	1	1	0	0.4	0.5	0.1	0.29	0.3	0	0	0	0	0	0
4/20/2024 22:21	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:21	44601	SALE_T2	0	0	0	0	0	0	-0.2	-0.24	0	0	0	0	0	0
4/20/2024 22:21	43102	SMIL_T2	7	7	0	0.43	0.41	-0.02	-0.97	-0.98	1	1	0	600	600	0
4/20/2024 22:21	60101	COCA_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
4/20/2024 22:21	51102	CARL_T1	117	134	17	0.3	0.38	0.08	0	0	0	0	0	0	0	0
4/20/2024 22:21	60802	BUCK_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
4/20/2024 22:21	65401	MARI_T1	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
4/20/2024 22:21	14204	EALL_T2	0	0	0	0	0	0	-0.85	-0.87	0	0	0	0	0	0
4/20/2024 22:21	57203	ROSS_T1	0	0	0	0	0	0	-0.88	-0.86	0	0	0	0	0	0
4/20/2024 22:21	51108	CARL_T1	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
4/20/2024 22:21	40302	TAMA_T3	42	41	-1	0.41	0.35	-0.06	0	0	0	0	0	0	0	0
4/20/2024 22:21	16102	BING_T2	2	0	-2	0.15	0	-0.15	-0.22	-0.23	0	0	0	0	0	0
4/20/2024 22:21	56801	BENV_T1	14	19	5	0.44	0.62	0.18	-0.92	-0.93	1	1	0	600	600	0
4/20/2024 22:21	64403	LAND_T1	2	6	4	0.1	0.1	0	-2.08	-2.09	1	1	0	900	900	0
4/20/2024 22:21	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:21	54601	SUMM_T2	12	12	0	0.36	0.33	-0.03	-1.99	-2.05	2	2	0	2100	2100	0
4/20/2024 22:21	51109	CARL_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 22:21	43103	SMIL_T2	6	4	-2	0.12	0.25	0.13	0	0	0	0	0	0	0	0
4/20/2024 22:21	51101	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 22:21	20603	GRWO_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
4/20/2024 22:21	63302	GREE_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
4/20/2024 22:21	44202	POIN_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
4/20/2024 22:21	45902	AUBU_T1	481	522	41	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
4/20/2024 22:21	53501	EVIL_T2	10	83	73	0.51	0.18	-0.33	-0.89	-0.89	0	0	0	0	0	0
4/20/2024 22:21	46004	BERW_T2	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
4/20/2024 22:21	51204	MTON_T2	0	0	0	0	0	0	-1.51	-1.51	2	2	0	1500	1500	0
4/20/2024 22:21	40303	TAMA_T3	2	2	0	0.75	0.7	-0.05	2.11	2.26	0	0	0	0	0	0
4/20/2024 22:21	45901	AUBU_T1	46	45	-1	0.19	0.17	-0.02	1.09	1.09	0	0	0	0	0	0
4/20/2024 22:21	56802	BENV_T2	100	197	97	0.16	0.4	0.24	-3.1	-3.16	0	0	0	0	0	0
4/20/2024 22:21	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:21	10801	CHHI_T1	0	0	0	0	0	0	-1.1	-1.08	1	1	0	900	900	0
4/20/2024 22:21	67502	WEWI_T2	0	0	0	0	0	0	-1.66	-1.69	1	1	0	900	900	0
4/20/2024 22:21	53502	EVIL_T2	2	3	1	0.15	0.23	0.08	0.47	0.49	0	0	0	0	0	0
4/20/2024 22:21	29402	BELT_T1	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
4/20/2024 22:21	56803	BENV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 22:21	47001	HUGH_T2	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:22	44201	POIN_T1	539	601	62	0.39	0.45	0.06	-2.09	-2.12	1	1	0	1200	1200	0
4/20/2024 22:22	53501	EVIL_T2	10	83	73	0.51	0.18	-0.33	-0.89	-0.89	0	0	0	0	0	0
4/20/2024 22:22	53502	EVIL_T2	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
4/20/2024 22:22	55002	NEWP_T1	6	6	0	1.32	1.42	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:22	54201	PENN_T1	215	228	13	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
4/20/2024 22:22	25601	ARRO_T1	0	0	0	0	0	0	0.14	0.1	0	0	0	0	0	0
4/20/2024 22:22	44203	POIN_T2	0	0	0	0	0	0	-0.8	-0.85	1	1	0	900	900	0
4/20/2024 22:22	46803	HEPB_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/20/2024 22:22	46801	HEPB_T2	5	3	-2	0.44	0.57	0.13	0.52	0.51	0	0	0	0	0	0
4/20/2024 22:22	66504	SMAN_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
4/20/2024 22:22	45501	DERR_T2	1	1	0	0.1	0.2	0.1	-0.9	-0.89	2	2	0	1800	1800	0
4/20/2024 22:22	43202	MVIL_T2	0	0	0	0	0	0	-0.73	-0.75	0	0	0	0	0	0
4/20/2024 22:22	55001	NEWP_T1	0	1	1	0	0.5	0.5	-0.24	-0.13	0	0	0	0	0	0
4/20/2024 22:22	60605	NCOL_T2	0	29	29	0	0.11	0.11	0	0	0	0	0	0	0	0
4/20/2024 22:22	59101	WALK_T2	0	0	0	0	0	0	2.68	2.48	0	0	0	0	0	0
4/20/2024 22:22	63305	GREE_T1	0	0	0	0	0	0	-1.53	-1.52	0	0	0	0	0	0
4/20/2024 22:22	54203	PENN_T1	48	20	-28	0.67	1.41	0.74	-0.08	-0.1	0	0	0	0	0	0
4/20/2024 22:22	54205	PENN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 22:22	42201	SHEN_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
4/20/2024 22:22	10602	BLGL_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
4/20/2024 22:22	67604	WARW_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/20/2024 22:22	67605	WARW_T1	18	34	16	0.63	0.65	0.02	0	0	0	0	0	0	0	0
4/20/2024 22:22	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:22	45702	LIND_T2	1	1	0	0.3	0.3	0	-0.58	-0.61	0	0	0	0	0	0
4/20/2024 22:22	14204	EALL_T2	0	0	0	0	0	0	-0.85	-0.87	0	0	0	0	0	0
4/20/2024 22:22	67203	TEHI_T1	0	0	0	0	0	0	0.85	0.81	0	0	0	0	0	0
4/20/2024 22:22	56501	ROCK_T2	2	2	0	0.5	0.4	-0.1	-0.02	-0.02	0	0	0	0	0	0
4/20/2024 22:22	25603	ARRO_T1	72	79	7	0.34	0.29	-0.05	0	0	0	0	0	0	0	0
4/20/2024 22:22	65802	RTWN_T2	3	1	-2	0.1	0.1	0	-0.63	-0.63	0	0	0	0	0	0
4/20/2024 22:22	28403	HART_T2	0	0	0	0	0	0	-1.05	-1.05	1	1	0	900	900	0
4/20/2024 22:23	20403	ASHF_T2	36	36	0	0.63	0.73	0.1	0.05	0.09	0	0	0	0	0	0
4/20/2024 22:23	58401	MORO_T1	0	0	0	0	0	0	-1.36	-1.33	1	1	0	600	600	0
4/20/2024 22:23	15103	UPHA_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
4/20/2024 22:23	11406	FARM_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
4/20/2024 22:23	56803	BENV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 22:23	20401	ASHF_T2	4	9	5	0.18	0.2	0.02	0	0	0	0	0	0	0	0
4/20/2024 22:23	67605	WARW_T1	18	34	16	0.63	0.65	0.02	-1.11	-1.12	0	0	0	0	0	0
4/20/2024 22:23	44601	SALE_T2	0	0	0	0	0	0	-0.2	-0.24	0	0	0	0	0	0
4/20/2024 22:23	11405	FARM_T1	1	5	4	3.6	0.62	-2.98	0	0	0	0	0	0	0	0
4/20/2024 22:23	45702	LIND_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/20/2024 22:23	56801	BENV_T1	14	19	5	0.44	0.62	0.18	-0.93	-0.93	1	1	0	600	600	0
4/20/2024 22:23	29402	BELT_T1	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
4/20/2024 22:23	45701	LIND_T2	0	0	0	0	0	0	-1.12	-1.12	0	0	0	0	0	0
4/20/2024 22:24	60803	BUCK_T1	5	8	3	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 22:24	45702	LIND_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/20/2024 22:24	45902	AUBU_T1	481	522	41	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
4/20/2024 22:24	42903	MIDD_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:24	65501	MOJO_T1	0	0	0	0	0	0	-1.3	-0.67	1	1	0	900	900	0
4/20/2024 22:24	43202	MVIL_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
4/20/2024 22:24	29402	BELT_T1	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
4/20/2024 22:24	51302	WIND_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
4/20/2024 22:24	41902	REED_T1	0	0	0	0	0	0	0.75	0.77	0	0	0	0	0	0
4/20/2024 22:24	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:24	40101	HUNT_T2	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
4/20/2024 22:24	44502	HAMI_T2	1	1	0	4.1	4.1	0	-1.05	-1	0	0	0	0	0	0
4/20/2024 22:24	56803	BENV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 22:24	56801	BENV_T1	14	19	5	0.44	0.62	0.18	-0.93	-0.93	1	1	0	600	600	0
4/20/2024 22:24	60801	BUCK_T1	11	16	5	0.13	0.12	-0.01	-0.95	-0.97	1	1	0	600	600	0
4/20/2024 22:24	45701	LIND_T2	0	0	0	0	0	0	-1.12	-1.13	0	0	0	0	0	0
4/20/2024 22:24	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:24	42902	MIDD_T2	0	0	0	0	0	0	-0.78	-0.76	0	0	0	0	0	0
4/20/2024 22:24	44203	POIN_T2	0	0	0	0	0	0	-0.85	-0.85	1	1	0	900	900	0
4/20/2024 22:24	42201	SHEN_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
4/20/2024 22:24	45901	AUBU_T1	46	45	-1	0.19	0.17	-0.02	1.09	1.08	0	0	0	0	0	0
4/20/2024 22:25	61303	EARL_T1	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
4/20/2024 22:25	64204	KINZ_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
4/20/2024 22:25	40703	FFLD_T1	4	4	0	0.38	0.5	0.12	0	0	0	0	0	0	0	0
4/20/2024 22:25	64401	LAND_T1	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
4/20/2024 22:25	12602	MACA_T1	0	0	0	0	0	0	-0.48	-0.44	0	0	0	0	0	0
4/20/2024 22:25	63305	GREE_T1	0	0	0	0	0	0	-1.52	-1.55	0	0	0	0	0	0
4/20/2024 22:25	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:25	64403	LAND_T1	2	6	4	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 22:25	59202	THOM_T1	67	66	-1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
4/20/2024 22:25	40701	FFLD_T1	69	76	7	0.41	0.48	0.07	0	0	0	0	0	0	0	0
4/20/2024 22:25	66504	SMAN_T2	0	0	0	0	0	0	-1.46	-1.52	0	0	0	0	0	0
4/20/2024 22:25	53502	EVIL_T2	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
4/20/2024 22:25	67502	WEWI_T2	0	0	0	0	0	0	-1.69	-1.59	1	1	0	900	900	0
4/20/2024 22:25	64202	KINZ_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
4/20/2024 22:25	58401	MORO_T1	0	0	0	0	0	0	-1.36	-1.33	1	1	0	600	600	0
4/20/2024 22:25	53501	EVIL_T2	10	83	73	0.51	0.18	-0.33	-0.89	-0.9	0	0	0	0	0	0
4/20/2024 22:25	64201	KINZ_T1	1	1	0	0.5	0.9	0.4	-0.41	-0.51	1	1	0	900	900	0
4/20/2024 22:25	60102	COCA_T1	0	0	0	0	0	0	0.02	0.65	1	0	-1	600	0	-600
4/20/2024 22:25	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.18	0	0	0	0	0	0
4/20/2024 22:25	59201	THOM_T1	3	4	1	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
4/20/2024 22:25	66001	RHEE_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
4/20/2024 22:25	40702	FFLD_T1	216	232	16	0.6	0.63	0.03	-1.37	-1.36	1	1	0	1200	1200	0
4/20/2024 22:26	60803	BUCK_T1	5	8	3	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 22:26	56802	BENV_T2	100	197	97	0.16	0.4	0.24	-1.58	-1.61	0	0	0	0	0	0
4/20/2024 22:26	59002	MIFF_T1	6	6	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/20/2024 22:26	41902	REED_T1	0	0	0	0	0	0	0.75	0.77	0	0	0	0	0	0
4/20/2024 22:26	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:26	59003	MIFF_T1	1	1	0	0.6	0.6	0	0.26	0.25	0	0	0	0	0	0
4/20/2024 22:26	46506	LOHA_T1	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
4/20/2024 22:26	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.18	0	0	0	0	0	0
4/20/2024 22:26	54601	SUMM_T2	12	12	0	0.36	0.33	-0.03	-2.05	-2.04	2	2	0	2100	2100	0
4/20/2024 22:26	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:26	45702	LIND_T2	1	1	0	0.3	0.3	0	-0.61	-0.61	0	0	0	0	0	0
4/20/2024 22:26	61302	EARL_T1	0	0	0	0	0	0	0.66	0.67	1	1	0	600	600	0
4/20/2024 22:26	64202	KINZ_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
4/20/2024 22:26	29402	BELT_T1	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
4/20/2024 22:26	64101	REFR_T1	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
4/20/2024 22:26	44502	HAMI_T2	1	1	0	4.1	4.1	0	-1.05	-1	0	0	0	0	0	0
4/20/2024 22:26	44301	BEAV_T2	0	0	0	0	0	0	-0.65	-0.66	1	1	0	600	600	0
4/20/2024 22:26	64204	KINZ_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
4/20/2024 22:26	47101	MARL_T1	0	0	0	0	0	0	-0.38	-0.35	0	0	0	0	0	0
4/20/2024 22:26	66001	RHEE_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
4/20/2024 22:26	60801	BUCK_T1	11	16	5	0.13	0.12	-0.01	-0.95	-0.97	1	1	0	600	600	0
4/20/2024 22:26	64201	KINZ_T1	1	1	0	0.5	0.9	0.4	-0.41	-0.51	1	1	0	900	900	0
4/20/2024 22:26	46504	LOHA_T1	6	41	35	0.57	0.36	-0.21	0	0	0	0	0	0	0	0
4/20/2024 22:27	45702	LIND_T2	1	1	0	0.3	0.3	0	-1.22	-1.22	0	0	0	0	0	0
4/20/2024 22:27	61303	EARL_T1	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
4/20/2024 22:27	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:27	63804	HEMP_T1	1	1	0	5.7	6.2	0.5	0	0	0	0	0	0	0	0
4/20/2024 22:27	42701	AUGU_T1	1	1	0	0.5	0.6	0.1	0	0	2	2	0	1800	1800	0
4/20/2024 22:27	16102	BING_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/20/2024 22:27	10801	CHHI_T1	0	0	0	0	0	0	-1.08	-1.07	1	1	0	900	900	0
4/20/2024 22:27	20403	ASHF_T2	36	36	0	0.63	0.73	0.1	0.05	0.09	0	0	0	0	0	0
4/20/2024 22:27	63801	HEMP_T1	0	0	0	0	0	0	-0.18	0.02	0	0	0	0	0	0
4/20/2024 22:27	20401	ASHF_T2	4	9	5	0.18	0.2	0.02	0	0	0	0	0	0	0	0
4/20/2024 22:27	16101	BING_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
4/20/2024 22:27	12202	FOGE_T2	2	2	0	0.15	0.3	0.15	-0.72	-0.74	1	1	0	600	600	0
4/20/2024 22:28	46504	LOHA_T1	6	41	35	0.57	0.36	-0.21	0	0	0	0	0	0	0	0
4/20/2024 22:28	51102	CARL_T1	117	134	17	0.3	0.38	0.08	0	0	0	0	0	0	0	0
4/20/2024 22:28	15203	SFAR_T2	103	135	32	0.2	0.2	0	0	0	0	0	0	0	0	0
4/20/2024 22:28	54201	PENN_T1	215	228	13	0.33	0.32	-0.01	-1.26	-1.25	0	0	0	0	0	0
4/20/2024 22:28	51101	CARL_T1	1	0	-1	0.1	0	-0.1	-1.58	-1.54	1	1	0	600	600	0
4/20/2024 22:28	54205	PENN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 22:28	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:28	20603	GRWO_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
4/20/2024 22:28	13805	SALI_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/20/2024 22:28	12005	HATF_T1	5	6	1	0.36	0.38	0.02	0	0	0	0	0	0	0	0
4/20/2024 22:28	42401	GIMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:28	12004	HATF_T1	11	14	3	0.12	0.13	0.01	0	0	0	0	0	0	0	0
4/20/2024 22:28	52501	PROG_T1	0	0	0	0	0	0	0.33	0.31	1	1	0	300	300	0
4/20/2024 22:28	44202	POIN_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
4/20/2024 22:28	13803	SALI_T1	0	0	0	0	0	0	-0.43	-0.42	1	1	0	1200	1200	0
4/20/2024 22:28	13804	SALI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 22:28	54203	PENN_T1	48	20	-28	0.67	1.41	0.74	0	0	0	0	0	0	0	0
4/20/2024 22:28	13807	SALI_T1	5	0	-5	0.12	0	-0.12	0	0	0	0	0	0	0	0
4/20/2024 22:28	12002	HATF_T1	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
4/20/2024 22:28	51109	CARL_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 22:28	46506	LOHA_T1	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
4/20/2024 22:28	67703	WERN_T2	0	0	0	0	0	0	-1.1	-0.45	1	1	0	900	900	0
4/20/2024 22:28	15204	SFAR_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
4/20/2024 22:29	54203	PENN_T1	48	20	-28	0.67	1.41	0.74	-0.1	-0.11	0	0	0	0	0	0
4/20/2024 22:29	42903	MIDD_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:29	54201	PENN_T1	215	228	13	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
4/20/2024 22:29	66502	SMAN_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
4/20/2024 22:29	65502	MOJO_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:29	42902	MIDD_T2	0	0	0	0	0	0	-0.78	-0.76	0	0	0	0	0	0
4/20/2024 22:29	42701	AUGU_T1	1	1	0	0.5	0.6	0.1	0	0	2	2	0	1800	1800	0
4/20/2024 22:29	54205	PENN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/20/2024 22:29	46102	MACI_T1	2	0	-2	0.1	0	-0.1	0.28	0.28	0	0	0	0	0	0
4/20/2024 22:29	65503	MOJO_T2	16	26	10	0.25	0.37	0.12	-0.73	-0.8	0	0	0	0	0	0
4/20/2024 22:29	54505	ENOL_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/20/2024 22:29	54502	ENOL_T2	1	1	0	1.1	1.1	0	-1.15	-1.03	1	1	0	600	600	0
4/20/2024 22:29	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:29	54501	ENOL_T2	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/20/2024 22:30	15203	SFAR_T2	108	147	39	0.19	0.22	0.03	0	0	0	0	0	0	0	0
4/20/2024 22:30	65203	PRIN_T1	7	95	88	0.16	0.12	-0.04	0	0	0	0	0	0	0	0
4/20/2024 22:30	65205	PRIN_T1	20	65	45	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
4/20/2024 22:30	13901	SEID_T1	0	0	0	0	0	0	0.4	0.35	0	0	0	0	0	0
4/20/2024 22:30	15204	SFAR_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
4/20/2024 22:30	53502	EVIL_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/20/2024 22:30	53501	EVIL_T2	83	5	-78	0.18	0.68	0.5	-0.89	-0.9	0	0	0	0	0	0
4/20/2024 22:30	17002	RIRO_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
4/20/2024 22:30	65202	PRIN_T1	25	84	59	0.13	0.15	0.02	0	0	0	0	0	0	0	0
4/20/2024 22:30	53903	HALI_T2	2	2	0	1.8	1.8	0	0	0	0	0	0	0	0	0
4/20/2024 22:31	56801	BENV_T1	17	19	2	0.56	0.71	0.15	-0.93	-0.93	1	1	0	600	600	0
4/20/2024 22:31	64701	LITI_T1	0	0	0	0	0	0	0.07	-0.04	0	0	0	0	0	0
4/20/2024 22:31	53901	HALI_T2	1	1	0	1.1	1	-0.1	-1.07	-1.11	0	0	0	0	0	0
4/20/2024 22:31	61303	EARL_T1	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
4/20/2024 22:31	43201	MVIL_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
4/20/2024 22:31	61506	EPET_T2	0	0	0	0	0	0	-1.33	-1.38	1	1	0	900	900	0
4/20/2024 22:31	59301	MCAL_T1	3	2	-1	0.97	0.7	-0.27	-1.88	-1.22	1	0	-1	600	0	-600
4/20/2024 22:31	53902	HALI_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
4/20/2024 22:31	55003	NEWP_T2	9	9	0	0.54	0.54	0	-0.29	-0.29	0	0	0	0	0	0
4/20/2024 22:31	40902	JESH_T1	0	0	0	0	0	0	-0.98	-0.96	0	0	0	0	0	0
4/20/2024 22:31	59302	MCAL_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/20/2024 22:31	56802	BENV_T2	142	197	55	0.23	0.41	0.18	-1.58	-1.61	0	0	0	0	0	0
4/20/2024 22:31	52501	PROG_T1	0	0	0	0	0	0	0.33	0.31	1	1	0	300	300	0
4/20/2024 22:32	46801	HEPB_T2	3	3	0	0.57	0.6	0.03	0.51	0.53	0	0	0	0	0	0
4/20/2024 22:32	46004	BERW_T2	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
4/20/2024 22:32	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/20/2024 22:32	60101	COCA_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
4/20/2024 22:32	51402	LYKE_T1	17	0	-17	0.24	0	-0.24	0	0	0	0	0	0	0	0
4/20/2024 22:32	46803	HEPB_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/20/2024 22:32	45402	WBLO_T2	1	1	0	0.9	0.9	0	-5.61	-5.66	3	3	0	2700	2700	0
4/20/2024 22:32	45902	AUBU_T1	499	552	53	0.42	0.48	0.06	-1.61	-1.61	0	0	0	0	0	0
4/20/2024 22:32	51401	LYKE_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
4/20/2024 22:32	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:32	45901	AUBU_T1	40	49	9	0.17	0.18	0.01	0	0	0	0	0	0	0	0
4/20/2024 22:33	60605	NCOL_T2	0	79	79	0	0.16	0.16	0	0	0	0	0	0	0	0
4/20/2024 22:33	62103	ELAN_T1	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:33	40602	PIGR_T1	0	0	0	0	0	0	-0.49	-0.48	2	2	0	1200	1200	0
4/20/2024 22:33	62105	ELAN_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
4/20/2024 22:33	40601	PIGR_T1	0	78	78	0	0.16	0.16	0	0	0	0	0	0	0	0
4/20/2024 22:33	64101	REFR_T1	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
4/20/2024 22:34	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:34	14203	EALL_T1	0	0	0	0	0	0	-0.47	-0.59	1	1	0	1200	1200	0
4/20/2024 22:34	24902	WHHA_T1	3	3	0	0.97	0.85	-0.12	0	0	0	0	0	0	0	0
4/20/2024 22:34	11405	FARM_T1	2	4	2	1.55	0.75	-0.8	-1.2	-1.2	1	1	0	1200	1200	0
4/20/2024 22:34	21206	ECAR_T2	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:34	24201	PROV_T3	203	389	186	0.17	0.2	0.03	-1.63	-1.62	1	1	0	1200	1200	0
4/20/2024 22:34	21204	ECAR_T2	1	1	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
4/20/2024 22:34	24204	PROV_T3	2	12	10	2.55	0.52	-2.03	0	0	0	0	0	0	0	0
4/20/2024 22:34	56801	BENV_T1	17	19	2	0.56	0.71	0.15	-0.93	-0.93	1	1	0	600	600	0
4/20/2024 22:34	29402	BELT_T1	1	1	0	7	7.6	0.6	0	0	0	0	0	0	0	0
4/20/2024 22:34	61801	EELI_T2	0	1	1	0	0.1	0.1	-0.87	-0.85	0	0	0	0	0	0
4/20/2024 22:34	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:34	67605	WARW_T1	25	34	9	0.54	0.65	0.11	-1.11	-1.12	0	0	0	0	0	0
4/20/2024 22:36	14601	SWHI_T1	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
4/20/2024 22:36	60803	BUCK_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:36	60801	BUCK_T1	5	16	11	0.1	0.12	0.02	-0.95	-0.97	1	1	0	600	600	0
4/20/2024 22:36	44202	POIN_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
4/20/2024 22:36	67605	WARW_T1	25	34	9	0.54	0.65	0.11	0	0	0	0	0	0	0	0
4/20/2024 22:36	52502	PROG_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
4/20/2024 22:36	12602	MACA_T1	0	0	0	0	0	0	-0.48	-0.44	0	0	0	0	0	0
4/20/2024 22:36	63403	HONY_T2	0	0	0	0	0	0	-0.57	-0.61	1	1	0	600	600	0
4/20/2024 22:36	63402	HONY_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:36	67603	WARW_T1	0	0	0	0	0	0	-0.14	-0.19	0	0	0	0	0	0
4/20/2024 22:36	56801	BENV_T1	17	19	2	0.56	0.71	0.15	-0.93	-0.93	1	1	0	600	600	0
4/20/2024 22:36	42701	AUGU_T1	1	1	0	0.5	0.6	0.1	0	0	2	2	0	1800	1800	0
4/20/2024 22:36	61304	EARL_T1	0	0	0	0	0	0	-1.16	-1.16	1	1	0	600	600	0
4/20/2024 22:36	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:37	45901	AUBU_T1	40	49	9	0.17	0.18	0.01	0	0	0	0	0	0	0	0
4/20/2024 22:37	57205	ROSS_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
4/20/2024 22:37	14404	SSLA_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
4/20/2024 22:37	47001	HUGH_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/20/2024 22:37	58402	MORO_T1	0	0	0	0	0	0	-0.64	-0.65	2	2	0	1500	1500	0
4/20/2024 22:37	14403	SSLA_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
4/20/2024 22:37	60605	NCOL_T2	0	79	79	0	0.16	0.16	0	0	0	0	0	0	0	0
4/20/2024 22:37	40602	PIGR_T1	0	0	0	0	0	0	-0.24	-0.24	1	1	0	600	600	0
4/20/2024 22:37	45902	AUBU_T1	499	552	53	0.42	0.48	0.06	-0.8	-0.81	0	0	0	0	0	0
4/20/2024 22:37	40601	PIGR_T1	0	78	78	0	0.16	0.16	0	0	0	0	0	0	0	0
4/20/2024 22:37	56801	BENV_T1	17	19	2	0.56	0.71	0.15	-0.93	-0.93	1	1	0	600	600	0
4/20/2024 22:37	13704	SCHN_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
4/20/2024 22:37	53501	EVIL_T2	83	5	-78	0.18	0.68	0.5	-0.89	-0.9	0	0	0	0	0	0
4/20/2024 22:37	53502	EVIL_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/20/2024 22:38	13803	SALI_T1	0	0	0	0	0	0	-0.43	-0.42	1	1	0	1200	1200	0
4/20/2024 22:38	62103	ELAN_T1	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:38	60605	NCOL_T2	0	79	79	0	0.16	0.16	0	0	0	0	0	0	0	0
4/20/2024 22:38	62104	ELAN_T1	0	0	0	0	0	0	0.94	0.93	0	0	0	0	0	0
4/20/2024 22:38	56801	BENV_T1	17	19	2	0.56	0.71	0.15	-1.86	-1.86	2	2	0	1200	1200	0
4/20/2024 22:39	26704	HEMI_T2	50	68	18	0.22	0.29	0.07	-0.93	-0.93	1	1	0	1200	1200	0
4/20/2024 22:39	12505	MITR_T2	0	0	0	0	0	0	0.29	0.13	0	0	0	0	0	0
4/20/2024 22:39	54601	SUMM_T2	12	10	-2	0.3	0.43	0.13	-2.04	-2.05	2	2	0	2100	2100	0
4/20/2024 22:39	64403	LAND_T1	0	23	23	0	0.1	0.1	-2.05	-2.09	1	1	0	900	900	0
4/20/2024 22:39	53502	EVIL_T2	3	0	-3	0.23	0	-0.23	0.41	0.43	0	0	0	0	0	0
4/20/2024 22:39	26002	WDAM_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/20/2024 22:39	26001	WDAM_T1	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
4/20/2024 22:39	12502	MITR_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
4/20/2024 22:39	41902	REED_T1	0	0	0	0	0	0	0.77	0.77	0	0	0	0	0	0
4/20/2024 22:39	53501	EVIL_T2	83	5	-78	0.18	0.68	0.5	0	0	0	0	0	0	0	0
4/20/2024 22:39	65001	NEFF_T2	207	214	7	0.25	0.29	0.04	-1.47	-1.52	1	1	0	1200	1200	0
4/20/2024 22:40	57001	WHHI_T2	0	0	0	0	0	0	-0.52	-0.54	1	1	0	900	900	0
4/20/2024 22:40	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.92	-0.9	2	2	0	1800	1800	0
4/20/2024 22:40	57006	WHHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/20/2024 22:40	54601	SUMM_T2	12	10	-2	0.3	0.43	0.13	-4.08	-4.09	4	4	0	4200	4200	0
4/20/2024 22:40	57003	WHHI_T2	3	2	-1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
4/20/2024 22:40	59201	THOM_T1	4	3	-1	0.23	0.23	0	0	0	0	0	0	0	0	0
4/20/2024 22:40	59202	THOM_T1	60	50	-10	0.15	0.15	0	0	0	0	0	0	0	0	0
4/20/2024 22:40	13801	SALI_T1	0	0	0	0	0	0	0.72	0.66	0	0	0	0	0	0
4/20/2024 22:41	20403	ASHF_T2	36	40	4	0.73	0.9	0.17	0	0	0	0	0	0	0	0
4/20/2024 22:41	20401	ASHF_T2	9	3	-6	0.2	0.2	0	-0.53	-0.54	0	0	0	0	0	0
4/20/2024 22:41	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.92	-0.9	2	2	0	1800	1800	0
4/20/2024 22:41	53502	EVIL_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/20/2024 22:41	53501	EVIL_T2	83	5	-78	0.18	0.68	0.5	-0.9	-0.88	0	0	0	0	0	0
4/20/2024 22:42	60501	NMAN_T2	3	3	0	5.4	4.93	-0.47	0	0	0	0	0	0	0	0
4/20/2024 22:42	60502	NMAN_T2	0	1	1	0	0.2	0.2	-0.74	-0.71	0	0	0	0	0	0
4/20/2024 22:42	67201	TEHI_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
4/20/2024 22:43	53902	HALI_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
4/20/2024 22:43	56802	BENV_T2	142	197	55	0.23	0.41	0.18	-1.61	-1.58	0	0	0	0	0	0
4/20/2024 22:43	53903	HALI_T2	2	2	0	1.8	1.8	0	-0.22	-0.23	0	0	0	0	0	0
4/20/2024 22:43	53901	HALI_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
4/20/2024 22:44	59302	MCAL_T1	1	1	0	0.8	0.6	-0.2	-0.54	-0.54	1	1	0	600	600	0
4/20/2024 22:44	12605	MACA_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
4/20/2024 22:44	59301	MCAL_T1	3	2	-1	0.97	0.7	-0.27	0	0	0	0	0	0	0	0
4/20/2024 22:45	51004	NHAR_T1	13	13	0	1.28	1.58	0.3	-0.51	-0.5	0	0	0	0	0	0
4/20/2024 22:45	10702	CATA_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/20/2024 22:45	20403	ASHF_T2	35	43	8	0.53	0.96	0.43	0.09	0.07	0	0	0	0	0	0
4/20/2024 22:45	55002	NEWP_T1	6	6	0	1.38	1.55	0.17	-0.31	-0.29	0	0	0	0	0	0
4/20/2024 22:45	54203	PENN_T1	20	33	13	1.41	0.92	-0.49	-0.11	-0.13	0	0	0	0	0	0
4/20/2024 22:45	55001	NEWP_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/20/2024 22:45	51002	NHAR_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
4/20/2024 22:45	20401	ASHF_T2	3	3	0	0.17	0.25	0.08	0	0	0	0	0	0	0	0
4/20/2024 22:45	51402	LYKE_T1	0	0	0	0	0	0	-1.02	-1.01	0	0	0	0	0	0
4/20/2024 22:45	54201	PENN_T1	213	275	62	0.33	0.37	0.04	0	0	0	0	0	0	0	0
4/20/2024 22:45	58401	MORO_T1	0	0	0	0	0	0	-1.33	-1.35	1	1	0	600	600	0
4/20/2024 22:45	10705	CATA_T2	0	1	1	0	0	0	-1.12	-1.11	1	1	0	900	900	0
4/20/2024 22:45	51003	NHAR_T1	3	5	2	0.17	0.22	0.05	0	0	0	0	0	0	0	0
4/20/2024 22:45	54205	PENN_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:46	51101	CARL_T1	0	14	14	0	0.15	0.15	0	0	0	0	0	0	0	0
4/20/2024 22:46	51108	CARL_T1	0	10	10	0	0.11	0.11	0	0	0	0	0	0	0	0
4/20/2024 22:46	51107	CARL_T1	0	17	17	0	0.12	0.12	-0.47	-0.43	0	0	0	0	0	0
4/20/2024 22:46	51102	CARL_T1	132	157	25	0.38	0.49	0.11	0	0	0	0	0	0	0	0
4/20/2024 22:46	51104	CARL_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:46	51109	CARL_T1	2	63	61	0.1	0.12	0.02	0	0	0	0	0	0	0	0
4/20/2024 22:46	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:46	59101	WALK_T2	0	0	0	0	0	0	1.06	1.2	0	0	0	0	0	0
4/20/2024 22:47	46802	HEPB_T1	1	1	0	0.2	0.2	0	-0.43	-0.4	0	0	0	0	0	0
4/20/2024 22:47	46801	HEPB_T2	3	3	0	0.57	0.63	0.06	0.53	0.52	0	0	0	0	0	0
4/20/2024 22:47	54505	ENOL_T2	1	1	0	0.8	1	0.2	-1.43	-1.41	1	1	0	600	600	0
4/20/2024 22:47	15203	SFAR_T2	129	168	39	0.19	0.36	0.17	-1.42	-1.45	0	0	0	0	0	0
4/20/2024 22:47	60605	NCOL_T2	29	80	51	0.11	0.17	0.06	0	0	0	0	0	0	0	0
4/20/2024 22:47	54502	ENOL_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/20/2024 22:47	54501	ENOL_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 22:47	61303	EARL_T1	0	0	0	0	0	0	-0.39	-0.36	0	0	0	0	0	0
4/20/2024 22:47	46803	HEPB_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/20/2024 22:48	45501	DERR_T2	1	1	0	0.2	0.4	0.2	-0.92	-0.9	2	2	0	1800	1800	0
4/20/2024 22:48	57006	WHHI_T2	1	1	0	0.4	0.5	0.1	1.24	1.26	1	1	0	600	600	0
4/20/2024 22:48	46801	HEPB_T2	3	3	0	0.57	0.63	0.06	0	0	0	0	0	0	0	0
4/20/2024 22:48	57003	WHHI_T2	2	4	2	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
4/20/2024 22:48	46803	HEPB_T2	1	1	0	0.2	0.2	0	0.45	0.44	0	0	0	0	0	0
4/20/2024 22:49	12603	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:49	56802	BENV_T2	197	176	-21	0.4	0.31	-0.09	-3.22	-3.16	0	0	0	0	0	0
4/20/2024 22:49	11901	ETEX_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
4/20/2024 22:49	12606	MACA_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
4/20/2024 22:50	27605	PIRI_T2	0	0	0	0	0	0	-0.77	-0.69	1	1	0	900	900	0
4/20/2024 22:50	53901	HALI_T2	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
4/20/2024 22:50	53902	HALI_T2	1	1	0	6.1	5.8	-0.3	-0.33	-0.34	0	0	0	0	0	0
4/20/2024 22:50	53903	HALI_T2	2	2	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
4/20/2024 22:50	40902	JESH_T1	0	0	0	0	0	0	-0.96	-1	0	0	0	0	0	0
4/20/2024 22:50	16605	PONO_T1	0	0	0	0	0	0	-1.02	0.22	1	0	-1	1200	0	-1200
4/20/2024 22:51	45901	AUBU_T1	38	85	47	0.16	0.22	0.06	0	0	0	0	0	0	0	0
4/20/2024 22:51	24501	GOUL_T2	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
4/20/2024 22:51	45501	DERR_T2	1	1	0	0.2	0.4	0.2	-0.92	-0.9	2	2	0	1800	1800	0
4/20/2024 22:51	43102	SMIL_T2	7	9	2	0.37	0.47	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:51	66502	SMAN_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
4/20/2024 22:51	46504	LOHA_T1	2	47	45	1.7	0.49	-1.21	0	0	0	0	0	0	0	0
4/20/2024 22:51	15203	SFAR_T2	129	168	39	0.19	0.36	0.17	-1.42	-1.45	0	0	0	0	0	0
4/20/2024 22:51	63404	HONY_T1	8	21	13	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/20/2024 22:51	46506	LOHA_T1	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
4/20/2024 22:51	43103	SMIL_T2	4	20	16	0.25	0.29	0.04	0	0	0	0	0	0	0	0
4/20/2024 22:51	43101	SMIL_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
4/20/2024 22:51	63401	HONY_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
4/20/2024 22:51	45902	AUBU_T1	489	601	112	0.42	0.51	0.09	-0.81	-0.81	0	0	0	0	0	0
4/20/2024 22:51	66505	SMAN_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/20/2024 22:52	25603	ARRO_T1	4	21	17	0.13	0.17	0.04	-0.15	-0.15	0	0	0	0	0	0
4/20/2024 22:52	64101	REFR_T1	0	1	1	0	0.1	0.1	-0.92	-0.9	0	0	0	0	0	0
4/20/2024 22:52	44201	POIN_T1	189	21	-168	0.22	0.13	-0.09	-2.1	-2.1	1	1	0	1200	1200	0
4/20/2024 22:52	22101	EDEL_T2	0	0	0	0	0	0	0.36	0.37	1	1	0	1200	1200	0
4/20/2024 22:52	67501	WEWI_T1	0	0	0	0	0	0	-1.45	-1.45	1	1	0	600	600	0
4/20/2024 22:53	54206	PENN_T2	0	0	0	0	0	0	-0.17	-0.13	0	0	0	0	0	0
4/20/2024 22:53	13704	SCHN_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
4/20/2024 22:53	40101	HUNT_T2	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
4/20/2024 22:54	67702	WERN_T2	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/20/2024 22:55	57003	WHIH_T2	2	4	2	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
4/20/2024 22:55	57004	WHIH_T2	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
4/20/2024 22:55	57006	WHIH_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:55	13801	SALI_T1	0	0	0	0	0	0	0.66	0.71	0	0	0	0	0	0
4/20/2024 22:55	13802	SALI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:55	13805	SALI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:56	12603	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 22:56	56801	BENV_T1	19	23	4	0.6	0.74	0.14	-0.93	-0.93	1	1	0	600	600	0
4/20/2024 22:56	12402	MILF_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/20/2024 22:56	12601	MACA_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
4/20/2024 22:56	56803	BENV_T1	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
4/20/2024 22:56	12401	MILF_T1	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
4/20/2024 22:58	67703	WERN_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	900	900	0
4/20/2024 22:59	54205	PENN_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
4/20/2024 22:59	54203	PENN_T1	20	33	13	1.41	0.92	-0.49	0	0	0	0	0	0	0	0
4/20/2024 22:59	54201	PENN_T1	213	275	62	0.33	0.37	0.04	-1.3	-1.3	0	0	0	0	0	0
4/20/2024 23:00	54501	ENOL_T2	1	4	3	0.1	0.13	0.03	-0.6	-0.56	1	1	0	600	600	0
4/20/2024 23:00	54505	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
4/20/2024 23:00	17101	WTRE_T2	2	2	0	9.3	9.05	-0.25	0	0	0	0	0	0	0	0
4/20/2024 23:00	17102	WTRE_T2	0	0	0	0	0	0	0	-0.11	0	0	0	0	0	0
4/20/2024 23:00	54502	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/20/2024 23:02	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/20/2024 23:02	63202	MGTN_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
4/20/2024 23:02	62106	ELAN_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
4/20/2024 23:02	66505	SMAN_T2	1	3	2	0.1	0.27	0.17	-0.44	-0.39	1	1	0	900	900	0
4/20/2024 23:03	56801	BENV_T1	19	23	4	0.66	0.77	0.11	-0.93	-0.93	1	1	0	600	600	0
4/20/2024 23:03	56803	BENV_T1	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
4/20/2024 23:04	28704	HAML_T2	1	0	0	0.1	0.3	0.2	-0.01	-0.01	0	0	0	0	0	0
4/20/2024 23:04	28703	HAML_T2	3	3	0	0.53	0.23	-0.3	0	0	0	0	0	0	0	0
4/20/2024 23:05	44601	SALE_T2	0	1	1	0	0.2	0.2	-0.25	-0.23	0	0	0	0	0	0
4/20/2024 23:05	52002	LING_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/20/2024 23:05	51304	WIND_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
4/20/2024 23:05	52004	LING_T2	0	0	0	0	0	0	0	0.08	0	0	0	0	0	0
4/20/2024 23:05	52006	LING_T2	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
4/20/2024 23:07	65203	PRIN_T1	89	119	30	0.12	0.18	0.06	0	0	0	0	0	0	0	0
4/20/2024 23:07	65205	PRIN_T1	62	150	88	0.18	0.2	0.02	0	0	0	0	0	0	0	0
4/20/2024 23:07	65202	PRIN_T1	84	200	116	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/20/2024 23:08	52006	LING_T2	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
4/20/2024 23:08	52002	LING_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/20/2024 23:08	47401	PENS_T1	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
4/20/2024 23:08	52004	LING_T2	0	0	0	0	0	0	0.08	0.03	0	0	0	0	0	0
4/20/2024 23:09	15203	SFAR_T2	143	170	27	0.22	0.35	0.13	-1.46	-1.48	0	0	0	0	0	0
4/20/2024 23:10	15204	SFAR_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
4/20/2024 23:10	15203	SFAR_T2	143	170	27	0.22	0.35	0.13	0	0	0	0	0	0	0	0
4/20/2024 23:11	48302	ORWI_T2	2	2	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
4/20/2024 23:12	14601	SWHI_T1	0	0	0	0	0	0	-1.07	-1.07	0	0	0	0	0	0
4/20/2024 23:13	46504	LOHA_T1	13	47	34	0.38	0.49	0.11	0	0	0	0	0	0	0	0
4/20/2024 23:13	46506	LOHA_T1	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
4/20/2024 23:14	41902	REED_T1	0	0	0	0	0	0	0.7	0.71	0	0	0	0	0	0
4/20/2024 23:14	55002	NEWP_T1	6	6	0	1.42	1.58	0.16	-0.31	-0.32	0	0	0	0	0	0
4/20/2024 23:14	55001	NEWP_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/20/2024 23:15	66703	STRA_T1	98	198	100	0.17	0.26	0.09	0	0	0	0	0	0	0	0
4/20/2024 23:15	45902	AUBU_T1	578	545	-33	0.5	0.43	-0.07	-0.81	-0.82	0	0	0	0	0	0
4/20/2024 23:15	64305	LINC_T1	0	0	0	0	0	0	-0.86	-0.82	0	0	0	0	0	0
4/20/2024 23:15	65901	SAKR_T2	1	1	0	9.7	9.8	0.1	-1.61	-1.62	1	1	0	900	900	0
4/20/2024 23:15	66701	STRA_T1	0	0	0	0	0	0	-0.57	-0.59	1	1	0	600	600	0
4/20/2024 23:15	45901	AUBU_T1	84	25	-59	0.22	0.15	-0.07	0	0	0	0	0	0	0	0
4/20/2024 23:16	15203	SFAR_T2	167	163	-4	0.36	0.27	-0.09	-1.46	-1.48	0	0	0	0	0	0
4/20/2024 23:19	45902	AUBU_T1	578	545	-33	0.5	0.43	-0.07	-0.81	-0.82	0	0	0	0	0	0
4/20/2024 23:19	61101	BERK_T5	1	1	0	0.1	0.1	0	-0.93	-0.87	0	0	0	0	0	0
4/20/2024 23:19	45901	AUBU_T1	84	25	-59	0.22	0.15	-0.07	0	0	0	0	0	0	0	0
4/20/2024 23:20	60605	NCOL_T2	23	82	59	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
4/20/2024 23:21	15203	SFAR_T2	167	163	-4	0.36	0.27	-0.09	-1.46	-1.48	0	0	0	0	0	0
4/20/2024 23:23	13501	MCMI_T1	0	0	0	0	0	0	0.05	-0.01	0	0	0	0	0	0
4/20/2024 23:25	62103	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/20/2024 23:25	62102	ELAN_T1	0	0	0	0	0	0	0.46	0.43	0	0	0	0	0	0
4/20/2024 23:28	24105	EHAZ_T1	5	5	0	5.66	5.78	0.12	0	0	0	0	0	0	0	0
4/20/2024 23:28	24104	EHAZ_T1	0	0	0	0	0	0	-2.32	-2.36	1	1	0	1200	1200	0
4/20/2024 23:30	41202	KENM_T2	0	0	0	0	0	0	0.46	0.39	0	0	0	0	0	0
4/20/2024 23:30	13501	MCMI_T1	0	0	0	0	0	0	-0.01	0.04	0	0	0	0	0	0
4/20/2024 23:31	29402	BELT_T1	1	1	0	7.3	7.8	0.5	0	0	0	0	0	0	0	0
4/20/2024 23:34	42201	SHEN_T2	0	0	0	0	0	0	0.3	0.33	0	0	0	0	0	0
4/20/2024 23:35	54504	ENOL_T2	0	0	0	0	0	0	-1.08	-1.07	1	1	0	600	600	0
4/20/2024 23:35	54502	ENOL_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/20/2024 23:35	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/20/2024 23:35	54501	ENOL_T2	3	4	1	0.13	0.2	0.07	0	0	0	0	0	0	0	0
4/20/2024 23:36	47001	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/20/2024 23:37	56802	BENV_T2	155	178	23	0.26	0.29	0.03	-1.55	-1.5	0	0	0	0	0	0
4/20/2024 23:37	63401	HONY_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
4/20/2024 23:37	63404	HONY_T1	6	136	130	0.12	0.31	0.19	0	0	0	0	0	0	0	0
4/20/2024 23:42	60605	NCOL_T2	0	82	82	0	0.14	0.14	0	0	0	0	0	0	0	0
4/20/2024 23:47	61502	EPET_T1	2	11	9	0.1	0.12	0.02	-1.47	-1.43	0	0	0	0	0	0
4/20/2024 23:49	15704	TANN_T1	0	4	4	0	0.1	0.1	-1.58	-1.59	0	0	0	0	0	0
4/20/2024 23:49	20403	ASHF_T2	39	37	-2	0.81	0.82	0.01	0.06	-0.01	0	0	0	0	0	0
4/20/2024 23:49	15701	TANN_T1	1	1	0	4.7	4.4	-0.3	0	0	0	0	0	0	0	0
4/20/2024 23:52	57006	WHIH_T2	1	1	0	0.3	0.5	0.2	1.26	1.26	1	1	0	600	600	0
4/20/2024 23:52	57003	WHIH_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
4/20/2024 23:57	55001	NEWP_T1	1	1	0	0.4	0.5	0.1	-0.06	-0.05	0	0	0	0	0	0
4/20/2024 23:57	55002	NEWP_T1	6	6	0	1.47	1.52	0.05	0	0	0	0	0	0	0	0
4/20/2024 23:58	51202	MTON_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
4/21/2024 0:12	65603	OVIL_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
4/21/2024 0:21	42601	TUSC_T1	0	0	0	0	0	0	-0.95	-0.96	2	2	0	1800	1800	0
4/21/2024 0:43	56802	BENV_T2	113	49	-64	0.17	0.14	-0.03	-1.48	-1.52	0	0	0	0	0	0
4/21/2024 1:03	56802	BENV_T2	49	105	56	0.14	0.18	0.04	-1.52	-1.52	0	0	0	0	0	0
4/21/2024 1:03	16301	ALPA_T1	301	377	76	0.22	0.31	0.09	-0.64	-0.63	0	0	0	0	0	0
4/21/2024 1:05	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/21/2024 1:05	65207	PRIN_T4	78	314	236	0.15	0.18	0.03	0	0	0	0	0	0	0	0
4/21/2024 1:05	65206	PRIN_T4	0	13	13	0	0.32	0.32	0	0	0	0	0	0	0	0
4/21/2024 1:40	11205	ELHE_T1	96	23	-73	0.39	0.18	-0.21	-1.2	0.12	1	0	-1	1200	0	-1200
4/21/2024 2:28	59101	WALK_T2	0	0	0	0	0	0	1.22	1.21	0	0	0	0	0	0
4/21/2024 6:13	40901	JESH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/21/2024 6:13	40902	JESH_T1	0	0	0	0	0	0	-1.55	-1.53	1	1	0	600	600	0
4/21/2024 22:07	61303	EARL_T1	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
4/22/2024 6:51	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 6:55	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 7:06	14404	SSLA_T1	1	1	0	4.3	4.2	-0.1	-0.01	0.02	0	0	0	0	0	0
4/22/2024 7:07	51102	CARL_T1	0	73	73	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 7:07	51108	CARL_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/22/2024 7:07	51107	CARL_T1	0	0	0	0	0	0	0.25	0.2	0	0	0	0	0	0
4/22/2024 7:08	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 7:09	61102	BERK_T5	0	0	0	0	0	0	0.63	0.69	1	1	0	300	300	0
4/22/2024 7:10	61102	BERK_T5	0	0	0	0	0	0	0.63	0.69	1	1	0	300	300	0
4/22/2024 7:11	40505	CRES_T1	3	3	0	4.37	4.47	0.1	0	0	0	0	0	0	0	0
4/22/2024 7:11	40504	CRES_T1	0	0	0	0	0	0	-1.7	-1.76	0	0	0	0	0	0
4/22/2024 7:20	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 7:21	45901	AUBU_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
4/22/2024 7:23	29402	BELT_T1	1	1	0	5.6	6.6	1	0	0	0	0	0	0	0	0
4/22/2024 7:23	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/22/2024 7:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/22/2024 7:26	29402	BELT_T1	1	1	0	5.6	6.6	1	0	0	0	0	0	0	0	0
4/22/2024 7:30	41801	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 7:34	66505	SMAN_T2	2	3	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/22/2024 7:34	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 7:34	66503	SMAN_T2	0	5	5	0	0.12	0.12	0.39	0.37	0	0	0	0	0	0
4/22/2024 7:35	60501	NMAN_T2	3	3	0	4.13	4.83	0.7	0	0	0	0	0	0	0	0
4/22/2024 7:35	60502	NMAN_T2	0	0	0	0	0	0	-0.23	-0.29	0	0	0	0	0	0
4/22/2024 7:36	29402	BELT_T1	1	1	0	6	7	1	0	0	0	0	0	0	0	0
4/22/2024 7:38	29402	BELT_T1	1	1	0	6	7	1	0	0	0	0	0	0	0	0
4/22/2024 7:38	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/22/2024 7:39	49804	UNIV_T1	0	0	0	0	0	0	0.86	1.29	0	0	0	0	0	0
4/22/2024 7:39	29402	BELT_T1	1	1	0	6	7	1	0	0	0	0	0	0	0	0
4/22/2024 7:40	67703	WERN_T2	0	0	0	0	0	0	-0.29	-0.28	1	1	0	900	900	0
4/22/2024 7:40	56801	BENV_T1	12	18	6	0.63	0.82	0.19	-0.68	-0.75	1	1	0	600	600	0
4/22/2024 7:41	40101	HUNT_T2	54	122	68	0.32	0.45	0.13	-0.07	-0.21	0	0	0	0	0	0
4/22/2024 7:42	62102	ELAN_T1	0	0	0	0	0	0	0.68	0.64	0	0	0	0	0	0
4/22/2024 7:44	12002	HATF_T1	1	0	-1	1.8	0	-1.8	0	0	0	0	0	0	0	0
4/22/2024 7:44	12006	HATF_T1	2	0	-2	0.95	0	-0.95	0.14	0.23	1	1	0	1200	1200	0
4/22/2024 7:45	40101	HUNT_T2	122	2	-120	0.49	0	-0.49	-0.07	-0.21	0	0	0	0	0	0
4/22/2024 7:46	40101	HUNT_T2	122	2	-120	0.49	0	-0.49	-0.07	-0.21	0	0	0	0	0	0
4/22/2024 7:47	13301	ORVI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 7:47	13303	ORVI_T1	0	0	0	0	0	0	-0.49	0.83	0	0	0	0	0	0
4/22/2024 7:47	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 7:48	24902	WHHA_T1	6	22	16	1.43	1.26	-0.17	0	0	0	0	0	0	0	0
4/22/2024 7:52	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 7:53	42501	ALTA_T2	0	0	0	0	0	0	-1.22	-1.23	1	1	0	600	600	0
4/22/2024 7:54	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/22/2024 7:54	29402	BELT_T1	1	1	0	6.6	7	0.4	0	0	0	0	0	0	0	0
4/22/2024 7:55	42501	ALTA_T2	0	0	0	0	0	0	-1.22	-1.23	1	1	0	600	600	0
4/22/2024 7:55	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 7:56	51108	CARL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/22/2024 7:56	61503	EPET_T1	0	0	0	0	0	0	-1.07	-1.15	0	0	0	0	0	0
4/22/2024 7:56	51102	CARL_T1	0	76	76	0	0.19	0.19	0	0	0	0	0	0	0	0
4/22/2024 7:56	51101	CARL_T1	0	0	0	0	0	0	-1.32	-1.29	1	1	0	600	600	0
4/22/2024 7:58	10801	CHHI_T1	0	0	0	0	0	0	-0.69	-0.61	1	1	0	900	900	0
4/22/2024 7:59	11504	FREE_T1	0	0	0	0	0	0	-2.44	-2.46	2	2	0	2100	2100	0
4/22/2024 7:59	40101	HUNT_T2	122	2	-120	0.49	0	-0.49	-0.42	-0.67	0	0	0	0	0	0
4/22/2024 8:01	55002	NEWP_T1	2	3	1	0.3	0.37	0.07	0	0	0	0	0	0	0	0
4/22/2024 8:01	55001	NEWP_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
4/22/2024 8:01	45702	LIND_T2	0	0	0	0	0	0	-0.35	-0.24	0	0	0	0	0	0
4/22/2024 8:02	45702	LIND_T2	0	0	0	0	0	0	-0.35	-0.24	0	0	0	0	0	0
4/22/2024 8:03	51204	MTON_T2	0	0	0	0	0	0	-1.44	-1.44	2	2	0	1500	1500	0
4/22/2024 8:04	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 8:04	12801	MICK_T1	0	0	0	0	0	0	0.64	0.66	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/22/2024 8:04	59101	WALK_T2	0	0	0	0	0	0	2.12	2.52	0	0	0	0	0	0
4/22/2024 8:04	12807	MICK_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/22/2024 8:05	40303	TAMA_T3	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/22/2024 8:05	46302	ROHR_T1	2	5	3	1.3	1.22	-0.08	0.21	0.21	0	0	0	0	0	0
4/22/2024 8:05	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 8:05	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 8:05	40302	TAMA_T3	10	23	13	0.54	0.37	-0.17	0.41	0.32	0	0	0	0	0	0
4/22/2024 8:05	46301	ROHR_T1	0	51	51	0	0.17	0.17	0	0	0	0	0	0	0	0
4/22/2024 8:05	59101	WALK_T2	0	0	0	0	0	0	2.12	2.52	0	0	0	0	0	0
4/22/2024 8:06	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 8:07	67703	WERN_T2	0	0	0	0	0	0	-0.28	-0.29	1	1	0	900	900	0
4/22/2024 8:08	26002	WDAM_T1	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
4/22/2024 8:08	26001	WDAM_T1	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
4/22/2024 8:09	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
4/22/2024 8:09	44301	BEAV_T2	1	1	0	0.4	0.3	-0.1	0.13	0.16	2	2	0	1500	1500	0
4/22/2024 8:11	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 8:11	44301	BEAV_T2	1	1	0	0.4	0.3	-0.1	0.26	0.32	4	4	0	3000	3000	0
4/22/2024 8:11	62105	ELAN_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
4/22/2024 8:12	62105	ELAN_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
4/22/2024 8:12	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 8:13	11507	FREE_T2	0	0	0	0	0	0	0.93	0.95	0	0	0	0	0	0
4/22/2024 8:15	45701	LIND_T2	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
4/22/2024 8:15	45702	LIND_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/22/2024 8:15	43202	MVIL_T2	50	53	3	0.3	0.33	0.03	-0.52	-0.52	0	0	0	0	0	0
4/22/2024 8:19	17002	RIRO_T2	3	4	1	0.13	0.5	0.37	0.63	0.64	0	0	0	0	0	0
4/22/2024 8:21	65207	PRIN_T4	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
4/22/2024 8:21	13901	SEID_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
4/22/2024 8:21	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 8:22	43301	WATS_T2	0	0	0	0	0	0	-0.75	-0.78	1	1	0	900	900	0
4/22/2024 8:22	43302	WATS_T2	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
4/22/2024 8:24	47401	PENS_T1	0	1	1	0	0.4	0.4	0.86	0.83	0	0	0	0	0	0
4/22/2024 8:24	47403	PENS_T1	0	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0
4/22/2024 8:24	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/22/2024 8:24	67702	WERN_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
4/22/2024 8:25	45501	DERR_T2	0	0	0	0	0	0	0.61	0.58	2	2	0	1800	1800	0
4/22/2024 8:26	62601	ENGL_T1	0	0	0	0	0	0	-0.87	-0.73	0	0	0	0	0	0
4/22/2024 8:26	29402	BELT_T1	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
4/22/2024 8:26	62607	ENGL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/22/2024 8:27	62607	ENGL_T1	0	1	1	0	0.3	0.3	-1.17	-1.16	1	1	0	300	300	0
4/22/2024 8:28	62605	ENGL_T1	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
4/22/2024 8:28	62607	ENGL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/22/2024 8:28	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/22/2024 8:28	29402	BELT_T1	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
4/22/2024 8:29	62607	ENGL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/22/2024 8:29	62605	ENGL_T1	0	0	0	0	0	0	-1.77	-1.79	0	0	0	0	0	0
4/22/2024 8:29	50105	HARR_T3	6	6	0	5.97	5.95	-0.02	0	0	0	0	0	0	0	0
4/22/2024 8:29	50103	HARR_T3	2	2	0	0.75	0.6	-0.15	-1.14	-1.09	1	1	0	1200	1200	0
4/22/2024 8:32	46302	ROHR_T1	3	6	3	1.93	1.7	-0.23	0.21	0.2	0	0	0	0	0	0
4/22/2024 8:32	46301	ROHR_T1	42	106	64	0.17	0.21	0.04	0	0	0	0	0	0	0	0
4/22/2024 8:33	57205	ROSS_T1	1	1	0	0.8	0.2	-0.6	-0.88	0.12	1	0	-1	900	0	-900
4/22/2024 8:33	45702	LIND_T2	0	1	1	0	0.6	0.6	-0.29	-0.36	0	0	0	0	0	0
4/22/2024 8:34	40601	PIGR_T1	8	45	37	0.11	0.15	0.04	0	0	0	0	0	0	0	0
4/22/2024 8:34	57205	ROSS_T1	1	1	0	0.8	0.2	-0.6	-0.88	0.12	1	0	-1	900	0	-900
4/22/2024 8:35	40601	PIGR_T1	8	45	37	0.11	0.15	0.04	0	0	0	0	0	0	0	0
4/22/2024 8:35	64101	REFR_T1	0	0	0	0	0	0	-0.99	-1.04	0	0	0	0	0	0
4/22/2024 8:36	43202	MVIL_T2	50	72	22	0.28	0.57	0.29	-0.52	-0.56	0	0	0	0	0	0
4/22/2024 8:36	67605	WARW_T1	9	49	40	0.36	0.5	0.14	-0.86	-1.08	0	0	0	0	0	0
4/22/2024 8:36	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 8:36	20403	ASHF_T2	0	3	3	0	0.4	0.4	0.03	0.08	0	0	0	0	0	0
4/22/2024 8:36	64101	REFR_T1	0	0	0	0	0	0	-0.99	-1.04	0	0	0	0	0	0
4/22/2024 8:36	20401	ASHF_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/22/2024 8:37	46302	ROHR_T1	3	6	3	1.93	1.7	-0.23	0.21	0.2	0	0	0	0	0	0
4/22/2024 8:37	59101	WALK_T2	0	1	1	0	0.1	0.1	2.18	2.35	0	0	0	0	0	0
4/22/2024 8:37	46301	ROHR_T1	42	106	64	0.17	0.21	0.04	0	0	0	0	0	0	0	0
4/22/2024 8:37	11101	EGYP_T1	3	0	-3	0.5	0	-0.5	0	0	1	1	0	1200	1200	0
4/22/2024 8:38	44301	BEAV_T2	1	1	0	0.5	0	-0.5	0.16	-0.15	2	2	0	1500	1500	0
4/22/2024 8:39	60802	BUCK_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
4/22/2024 8:39	67605	WARW_T1	9	49	40	0.36	0.5	0.14	0	0	0	0	0	0	0	0
4/22/2024 8:39	67603	WARW_T1	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
4/22/2024 8:40	10805	CHHI_T2	1	1	0	8.3	7.8	-0.5	-0.69	-0.7	1	1	0	600	600	0
4/22/2024 8:40	20401	ASHF_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/22/2024 8:40	20403	ASHF_T2	0	3	3	0	0.4	0.4	0.08	0.06	0	0	0	0	0	0
4/22/2024 8:40	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 8:41	45802	HEGI_T2	42	41	-1	0.77	0.76	-0.01	0.25	0.89	1	0	-1	900	0	-900
4/22/2024 8:41	17401	FOHI_T1	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
4/22/2024 8:41	67605	WARW_T1	9	49	40	0.36	0.5	0.14	-1.08	-1.06	0	0	0	0	0	0
4/22/2024 8:42	10805	CHHI_T2	1	1	0	8.3	7.8	-0.5	-0.69	-0.7	1	1	0	600	600	0
4/22/2024 8:42	45802	HEGI_T2	42	41	-1	0.77	0.76	-0.01	0.25	0.89	1	0	-1	900	0	-900
4/22/2024 8:45	13503	MCMI_T2	1	0	-1	0.3	0	-0.3	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 8:47	45701	LIND_T2	0	0	0	0	0	0	-0.96	-0.97	0	0	0	0	0	0
4/22/2024 8:47	64802	MONE_T2	0	1	1	0	0.3	0.3	0.08	0.08	0	0	0	0	0	0
4/22/2024 8:47	64801	MONE_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/22/2024 8:47	43202	MVIL_T2	49	71	22	0.33	0.58	0.25	-0.56	-0.55	0	0	0	0	0	0
4/22/2024 8:47	45702	LIND_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/22/2024 8:50	41902	REED_T1	0	1	1	0	0	0	1.09	1.09	0	0	0	0	0	0
4/22/2024 8:50	41901	REED_T1	2	5	3	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
4/22/2024 8:51	67703	WERN_T2	0	2	2	0	0.15	0.15	-0.29	-0.28	1	1	0	900	900	0
4/22/2024 8:51	67701	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 8:51	65202	PRIN_T1	4	0	-4	0.45	0	-0.45	0	0	0	0	0	0	0	0
4/22/2024 8:51	65205	PRIN_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
4/22/2024 8:52	20402	ASHF_T2	0	1	1	0	3	3	0	0	0	0	0	0	0	0
4/22/2024 8:52	20403	ASHF_T2	0	6	6	0	0.37	0.37	0	0	0	0	0	0	0	0
4/22/2024 8:52	41901	REED_T1	2	5	3	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
4/22/2024 8:52	20401	ASHF_T2	0	1	1	0	0.3	0.3	-0.31	-0.34	0	0	0	0	0	0
4/22/2024 8:52	41902	REED_T1	0	1	1	0	0	0	1.09	1.09	0	0	0	0	0	0
4/22/2024 8:53	67605	WARW_T1	28	49	21	0.45	0.5	0.05	-1.06	-1.11	0	0	0	0	0	0
4/22/2024 8:53	67703	WERN_T2	0	2	2	0	0.15	0.15	-0.28	-0.28	1	1	0	900	900	0
4/22/2024 8:53	67701	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 8:54	67701	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 8:54	67703	WERN_T2	0	2	2	0	0.15	0.15	-0.28	-0.28	1	1	0	900	900	0
4/22/2024 8:54	10707	CATA_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
4/22/2024 8:54	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 8:55	15001	BLMO_T1	3	6	3	0.13	0.17	0.04	0	0	0	0	0	0	0	0
4/22/2024 8:55	45501	DERR_T2	0	0	0	0	0	0	0.58	0.6	2	2	0	1800	1800	0
4/22/2024 8:56	10705	CATA_T2	0	0	0	0	0	0	-0.95	-0.9	1	1	0	900	900	0
4/22/2024 8:56	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 8:56	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
4/22/2024 8:56	67703	WERN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/22/2024 8:56	67701	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 8:56	10707	CATA_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
4/22/2024 8:57	15001	BLMO_T1	3	6	3	0.13	0.17	0.04	0	0	0	0	0	0	0	0
4/22/2024 8:57	10705	CATA_T2	0	0	0	0	0	0	-0.95	-0.9	1	1	0	900	900	0
4/22/2024 8:57	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 8:58	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 8:58	10705	CATA_T2	0	0	0	0	0	0	-0.95	-0.9	1	1	0	900	900	0
4/22/2024 8:59	64702	LITI_T2	0	0	0	0	0	0	-0.73	-0.81	0	0	0	0	0	0
4/22/2024 8:59	45702	LIND_T2	1	2	1	0.3	0.4	0.1	-0.38	-0.38	0	0	0	0	0	0
4/22/2024 9:00	13501	MCMI_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
4/22/2024 9:00	20603	GRMO_T2	0	1	1	0	0.2	0.2	0.4	0.38	0	0	0	0	0	0
4/22/2024 9:02	62607	ENGL_T1	1	1	0	0.2	0.2	0	-1.17	-1.18	1	1	0	300	300	0
4/22/2024 9:02	62605	ENGL_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/22/2024 9:02	64702	LITI_T2	0	0	0	0	0	0	-1.47	-1.62	0	0	0	0	0	0
4/22/2024 9:02	58401	MORO_T1	0	1	1	0	0.1	0.1	-0.93	-0.94	1	1	0	600	600	0
4/22/2024 9:04	13501	MCMI_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
4/22/2024 9:04	40602	PIGR_T1	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
4/22/2024 9:04	40601	PIGR_T1	2	32	30	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
4/22/2024 9:05	40602	PIGR_T1	0	0	0	0	0	0	-0.1	-0.05	0	0	0	0	0	0
4/22/2024 9:05	40601	PIGR_T1	2	32	30	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
4/22/2024 9:06	42201	SHEN_T2	0	0	0	0	0	0	-0.17	-0.13	1	1	0	600	600	0
4/22/2024 9:06	43202	MVIL_T2	71	89	18	0.57	0.78	0.21	-0.55	-0.58	0	0	0	0	0	0
4/22/2024 9:07	67605	WARW_T1	49	38	-11	0.5	0.57	0.07	-2.12	-1.11	0	0	0	0	0	0
4/22/2024 9:07	67605	WARW_T1	49	38	-11	0.5	0.57	0.07	-2.12	-2.22	0	0	0	0	0	0
4/22/2024 9:07	67605	WARW_T1	49	38	-11	0.5	0.57	0.07	-1.06	-1.11	0	0	0	0	0	0
4/22/2024 9:07	67605	WARW_T1	49	38	-11	0.5	0.57	0.07	-1.06	-2.22	0	0	0	0	0	0
4/22/2024 9:07	43304	WATS_T2	1	0	-1	0.1	0	-0.1	0.71	0.72	0	0	0	0	0	0
4/22/2024 9:07	59102	WALK_T2	0	7	7	0	0.37	0.37	0	0	0	0	0	0	0	0
4/22/2024 9:07	16301	ALPA_T1	4	26	22	0.23	0.21	-0.02	-0.42	-0.42	0	0	0	0	0	0
4/22/2024 9:07	59101	WALK_T2	1	2	1	0.1	0.2	0.1	2.26	2.3	0	0	0	0	0	0
4/22/2024 9:08	46302	ROHR_T1	6	7	1	1.4	1.47	0.07	0	0	0	0	0	0	0	0
4/22/2024 9:08	43304	WATS_T2	1	0	-1	0.1	0	-0.1	0.71	0.72	0	0	0	0	0	0
4/22/2024 9:08	65901	SAKR_T2	1	1	0	9.6	9	-0.6	-1.31	-1.28	1	1	0	900	900	0
4/22/2024 9:08	46301	ROHR_T1	96	111	15	0.21	0.27	0.06	0.24	0.23	0	0	0	0	0	0
4/22/2024 9:09	60901	DONG_T2	3	3	0	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
4/22/2024 9:09	67605	WARW_T1	49	38	-11	0.5	0.57	0.07	-1.11	-1.06	0	0	0	0	0	0
4/22/2024 9:09	60902	DONG_T2	2	1	-1	0.3	0.1	-0.2	0.69	0.62	0	0	0	0	0	0
4/22/2024 9:09	60904	DONG_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/22/2024 9:10	62605	ENGL_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/22/2024 9:10	54502	ENOL_T2	38	6	-32	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
4/22/2024 9:10	54503	ENOL_T2	0	0	0	0	0	0	-1.27	-1.36	1	1	0	600	600	0
4/22/2024 9:10	10805	CHHI_T2	1	6	5	7.9	7.6	-0.3	-0.66	-0.76	1	1	0	600	600	0
4/22/2024 9:10	54505	ENOL_T2	1	1	0	1.2	1.6	0.4	0	0	0	0	0	0	0	0
4/22/2024 9:10	54501	ENOL_T2	4	4	0	0.18	0.63	0.45	0	0	0	0	0	0	0	0
4/22/2024 9:10	62607	ENGL_T1	1	1	0	0.2	0.2	0	-1.18	-1.15	1	1	0	300	300	0
4/22/2024 9:11	10801	CHHI_T1	0	2	2	0	0.2	0.2	-0.65	-0.72	1	1	0	900	900	0
4/22/2024 9:11	67703	WERN_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/22/2024 9:11	67702	WERN_T2	0	1	1	0	0.2	0.2	-0.05	-0.01	0	0	0	0	0	0
4/22/2024 9:11	67605	WARW_T1	49	38	-11	0.5	0.57	0.07	-1.11	-1.06	0	0	0	0	0	0
4/22/2024 9:11	67701	WERN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/22/2024 9:13	46301	ROHR_T1	96	111	15	0.21	0.27	0.06	0.23	0.24	0	0	0	0	0	0
4/22/2024 9:13	46302	ROHR_T1	6	7	1	1.4	1.47	0.07	0	0	0	0	0	0	0	0
4/22/2024 9:15	13501	MCMI_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
4/22/2024 9:15	46402	FLEM_T2	20	0	-20	0.17	0	-0.17	0	0	0	0	0	0	0	0
4/22/2024 9:15	46401	FLEM_T2	3	0	-3	0.13	0	-0.13	0.4	0.37	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/22/2024 9:15	42902	MIDD_T2	0	0	0	0	0	0	-0.99	-0.94	1	1	0	600	600	0
4/22/2024 9:16	40101	HUNT_T2	3	1	-2	0.43	0	-0.43	-0.28	-0.49	0	0	0	0	0	0
4/22/2024 9:16	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.73	1	1	0	900	900	0
4/22/2024 9:16	13501	MCMI_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
4/22/2024 9:17	40601	PIGR_T1	16	59	43	0.16	0.24	0.08	0	0	0	0	0	0	0	0
4/22/2024 9:17	40602	PIGR_T1	0	1	1	0	0.1	0.1	-0.03	-0.02	0	0	0	0	0	0
4/22/2024 9:17	40603	PIGR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 9:18	42902	MIDD_T2	0	0	0	0	0	0	-0.99	-0.94	1	1	0	600	600	0
4/22/2024 9:19	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.73	1	1	0	900	900	0
4/22/2024 9:19	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 9:19	13902	SEID_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 9:20	67505	WEWI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 9:20	67501	WEWI_T1	2	4	2	0.2	0.7	0.5	-1.15	-1.26	1	1	0	600	600	0
4/22/2024 9:21	67702	WERN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/22/2024 9:21	67703	WERN_T2	2	3	1	0.15	0.43	0.28	-0.28	-0.28	1	1	0	900	900	0
4/22/2024 9:21	15204	SFAR_T2	3	4	1	0.53	0.88	0.35	0	0	0	0	0	0	0	0
4/22/2024 9:21	15203	SFAR_T2	96	135	39	0.26	0.28	0.02	-1.35	-1.36	0	0	0	0	0	0
4/22/2024 9:21	67701	WERN_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
4/22/2024 9:21	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 9:21	43304	WATS_T2	0	0	0	0	0	0	0.72	0.71	0	0	0	0	0	0
4/22/2024 9:22	43304	WATS_T2	0	0	0	0	0	0	0.72	0.71	0	0	0	0	0	0
4/22/2024 9:22	15204	SFAR_T2	3	4	1	0.53	0.88	0.35	0	0	0	0	0	0	0	0
4/22/2024 9:22	15203	SFAR_T2	96	135	39	0.26	0.28	0.02	-4.04	-4.09	0	0	0	0	0	0
4/22/2024 9:22	60801	BUCK_T1	0	0	0	0	0	0	-0.62	-0.63	1	1	0	600	600	0
4/22/2024 9:22	45902	AUBU_T1	1	1	0	0.8	1.4	0.6	-0.49	-0.51	1	1	0	600	600	0
4/22/2024 9:23	43304	WATS_T2	0	0	0	0	0	0	0.72	0.71	0	0	0	0	0	0
4/22/2024 9:23	54505	ENOL_T2	1	3	2	1.3	0.63	-0.67	0	0	0	0	0	0	0	0
4/22/2024 9:23	54502	ENOL_T2	6	1	-5	0.17	0.7	0.53	0	0	0	0	0	0	0	0
4/22/2024 9:23	54501	ENOL_T2	4	4	0	0.43	0.63	0.2	-0.55	-0.53	1	1	0	600	600	0
4/22/2024 9:23	15203	SFAR_T2	96	135	39	0.26	0.28	0.02	0	0	0	0	0	0	0	0
4/22/2024 9:23	45902	AUBU_T1	1	1	0	0.8	1.4	0.6	-0.51	-0.49	1	1	0	600	600	0
4/22/2024 9:23	15204	SFAR_T2	3	4	1	0.53	0.88	0.35	-0.02	0	0	0	0	0	0	0
4/22/2024 9:24	15704	TANN_T1	0	0	0	0	0	0	-1.17	-1.24	0	0	0	0	0	0
4/22/2024 9:24	15701	TANN_T1	2	2	0	2.8	3	0.2	0	0	0	0	0	0	0	0
4/22/2024 9:24	20402	ASHF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 9:24	20401	ASHF_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/22/2024 9:24	15204	SFAR_T2	3	4	1	0.53	0.88	0.35	0	-0.01	0	0	0	0	0	0
4/22/2024 9:24	59101	WALK_T2	1	8	7	0.1	0.26	0.16	2.28	1.89	0	0	0	0	0	0
4/22/2024 9:24	59102	WALK_T2	4	8	4	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/22/2024 9:24	15203	SFAR_T2	96	135	39	0.26	0.28	0.02	0	0	0	0	0	0	0	0
4/22/2024 9:24	20403	ASHF_T2	6	9	3	0.37	0.4	0.03	-0.09	1.03	0	0	0	0	0	0
4/22/2024 9:24	43304	WATS_T2	0	0	0	0	0	0	0.71	-0.54	0	0	0	0	0	0
4/22/2024 9:24	11601	CEAL_T1	1	1	0	0.4	1	0.6	0	0	1	1	0	1200	1200	0
4/22/2024 9:25	20402	ASHF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 9:25	20403	ASHF_T2	6	9	3	0.37	0.4	0.03	-0.09	1.03	0	0	0	0	0	0
4/22/2024 9:25	45402	WBLO_T2	2	2	0	0.9	0.75	-0.15	-0.76	-0.76	0	0	0	0	0	0
4/22/2024 9:25	20401	ASHF_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/22/2024 9:26	67605	WARW_T1	25	40	15	0.46	0.59	0.13	-1.06	-1.09	0	0	0	0	0	0
4/22/2024 9:26	15001	BLMO_T1	2	6	4	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/22/2024 9:27	11404	FARM_T1	1	1	0	0.3	0.4	0.1	1.48	1.46	0	0	0	0	0	0
4/22/2024 9:27	11401	FARM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 9:27	11405	FARM_T1	29	106	77	0.16	0.18	0.02	0	0	0	0	0	0	0	0
4/22/2024 9:27	62607	ENGL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/22/2024 9:27	62605	ENGL_T1	1	1	0	0.3	0.5	0.2	-0.85	-0.82	0	0	0	0	0	0
4/22/2024 9:27	11407	FARM_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/22/2024 9:27	11402	FARM_T1	4	7	3	0.35	0.43	0.08	0	0	0	0	0	0	0	0
4/22/2024 9:28	62605	ENGL_T1	1	1	0	0.3	0.5	0.2	-0.85	-0.82	0	0	0	0	0	0
4/22/2024 9:28	45902	AUBU_T1	1	1	0	0.8	1.4	0.6	-0.51	-0.49	1	1	0	600	600	0
4/22/2024 9:28	62607	ENGL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/22/2024 9:28	46203	DANV_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
4/22/2024 9:28	62102	ELAN_T1	0	0	0	0	0	0	0.61	0.63	0	0	0	0	0	0
4/22/2024 9:28	62105	ELAN_T1	2	3	1	0.15	0.33	0.18	0	0	0	0	0	0	0	0
4/22/2024 9:28	11201	ELHE_T2	0	0	0	0	0	0	0.1	0.06	2	2	0	2400	2400	0
4/22/2024 9:29	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.65	0	0	0	0	0	0
4/22/2024 9:29	46203	DANV_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
4/22/2024 9:31	67605	WARW_T1	38	66	28	0.57	0.52	-0.05	-1.06	-1.09	0	0	0	0	0	0
4/22/2024 9:32	55002	NEWP_T1	7	10	3	0.8	0.77	-0.03	0	0	0	0	0	0	0	0
4/22/2024 9:32	55001	NEWP_T1	1	4	3	0.8	0.38	-0.42	-0.25	-0.24	0	0	0	0	0	0
4/22/2024 9:34	13704	SCHN_T2	1	1	0	0.4	0.6	0.2	-0.35	-0.34	0	0	0	0	0	0
4/22/2024 9:35	44601	SALE_T2	0	0	0	0	0	0	0.6	0.7	1	1	0	600	600	0
4/22/2024 9:36	44601	SALE_T2	0	0	0	0	0	0	0.6	0.7	1	1	0	600	600	0
4/22/2024 9:37	61102	BERK_T5	2	3	1	0.15	0.15	0	0	0	0	0	0	0	0	0
4/22/2024 9:37	43301	WATS_T2	0	1	1	0	0.2	0.2	-0.77	0.21	1	0	-1	900	0	-900
4/22/2024 9:37	61103	BERK_T5	2	7	5	0.2	0.29	0.09	0.13	0.05	0	0	0	0	0	0
4/22/2024 9:37	43302	WATS_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
4/22/2024 9:37	61101	BERK_T5	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
4/22/2024 9:38	43302	WATS_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
4/22/2024 9:38	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 9:38	61103	BERK_T5	2	7	5	0.2	0.29	0.09	0.03	0.03	0	0	0	0	0	0
4/22/2024 9:38	40302	TAMA_T3	17	21	4	0.42	0.38	-0.04	0	0	0	0	0	0	0	0
4/22/2024 9:38	45902	AUBU_T1	1	1	0	1.1	1.4	0.3	-0.98	-0.98	2	2	0	1200	1200	0
4/22/2024 9:38	40303	TAMA_T3	1	2	1	0.2	0.6	0.4	2.39	2.39	0	0	0	0	0	0
4/22/2024 9:38	61102	BERK_T5	2	3	1	0.15	0.15	0	0	0	0	0	0	0	0	0
4/22/2024 9:38	61101	BERK_T5	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
4/22/2024 9:38	43301	WATS_T2	0	1	1	0	0.2	0.2	-0.77	0.21	1	0	-1	900	0	-900
4/22/2024 9:39	61103	BERK_T5	2	7	5	0.2	0.29	0.09	0.05	0.05	0	0	0	0	0	0
4/22/2024 9:39	61101	BERK_T5	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
4/22/2024 9:39	45902	AUBU_T1	1	1	0	1.1	1.4	0.3	-0.49	-0.49	1	1	0	600	600	0
4/22/2024 9:39	61102	BERK_T5	2	3	1	0.15	0.15	0	0	0	0	0	0	0	0	0
4/22/2024 9:40	43301	WATS_T2	0	1	1	0	0.2	0.2	0.21	-0.75	0	1	1	0	900	900
4/22/2024 9:40	45902	AUBU_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
4/22/2024 9:40	43302	WATS_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
4/22/2024 9:40	45901	AUBU_T1	0	0	0	0	0	0	1.84	1.93	0	0	0	0	0	0
4/22/2024 9:41	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/22/2024 9:41	61101	BERK_T5	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
4/22/2024 9:41	61103	BERK_T5	2	7	5	0.2	0.29	0.09	0.03	0.03	0	0	0	0	0	0
4/22/2024 9:41	67605	WARW_T1	38	66	28	0.57	0.52	-0.05	-1.09	-1.1	0	0	0	0	0	0
4/22/2024 9:41	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 9:41	56501	ROCK_T2	2	3	1	0.4	0.7	0.3	-0.04	-0.04	0	0	0	0	0	0
4/22/2024 9:41	61102	BERK_T5	2	3	1	0.15	0.15	0	0	0	0	0	0	0	0	0
4/22/2024 9:41	41504	FAIR_T2	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
4/22/2024 9:42	61102	BERK_T5	2	3	1	0.15	0.15	0	0	0	0	0	0	0	0	0
4/22/2024 9:42	61101	BERK_T5	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
4/22/2024 9:42	41502	FAIR_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
4/22/2024 9:42	61103	BERK_T5	2	7	5	0.2	0.29	0.09	0.03	0.03	0	0	0	0	0	0
4/22/2024 9:42	45902	AUBU_T1	1	1	0	1.1	1.4	0.3	-0.49	-0.49	1	1	0	600	600	0
4/22/2024 9:43	45902	AUBU_T1	1	1	0	1.1	1.4	0.3	-0.49	-0.49	1	1	0	600	600	0
4/22/2024 9:44	64204	KINZ_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
4/22/2024 9:44	64202	KINZ_T1	3	3	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/22/2024 9:44	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 9:44	17401	FOHI_T1	1	1	0	0.3	0.5	0.2	-1.04	-1.05	0	0	0	0	0	0
4/22/2024 9:44	43304	WATS_T2	0	0	0	0	0	0	-0.54	-0.51	0	0	0	0	0	0
4/22/2024 9:44	43302	WATS_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
4/22/2024 9:44	64201	KINZ_T1	0	0	0	0	0	0	-0.75	-0.72	4	4	0	2100	2100	0
4/22/2024 9:45	28403	HART_T2	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
4/22/2024 9:46	67603	WARW_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/22/2024 9:46	67605	WARW_T1	38	113	75	0.56	0.38	-0.18	-1.09	-1.1	0	0	0	0	0	0
4/22/2024 9:47	55001	NEWP_T1	1	5	4	0.8	0.48	-0.32	0	0	0	0	0	0	0	0
4/22/2024 9:47	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 9:47	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
4/22/2024 9:47	56501	ROCK_T2	2	3	1	0.5	0.7	0.2	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 9:47	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/22/2024 9:47	55002	NEWP_T1	9	10	1	0.6	0.81	0.21	-0.2	-0.19	0	0	0	0	0	0
4/22/2024 9:50	66504	SMAN_T2	0	0	0	0	0	0	-0.87	-0.78	0	0	0	0	0	0
4/22/2024 9:50	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 9:50	66502	SMAN_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
4/22/2024 9:51	55002	NEWP_T1	9	10	1	0.6	0.81	0.21	-0.2	-0.19	0	0	0	0	0	0
4/22/2024 9:51	55001	NEWP_T1	1	5	4	0.8	0.48	-0.32	0	0	0	0	0	0	0	0
4/22/2024 9:52	20402	ASHF_T2	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/22/2024 9:52	20403	ASHF_T2	1	3	2	0.1	0.7	0.6	0	0	0	0	0	0	0	0
4/22/2024 9:52	20401	ASHF_T2	1	1	0	0.6	0	-0.6	-0.35	-0.32	0	0	0	0	0	0
4/22/2024 9:52	51304	WIND_T2	2	3	1	0.2	0.3	0.1	-0.12	-0.13	0	0	0	0	0	0
4/22/2024 9:53	20401	ASHF_T2	1	1	0	0.6	0	-0.6	-0.32	-0.37	0	0	0	0	0	0
4/22/2024 9:53	20403	ASHF_T2	1	3	2	0.1	0.7	0.6	0	0	0	0	0	0	0	0
4/22/2024 9:53	60801	BUCK_T1	0	0	0	0	0	0	-0.46	-0.45	1	1	0	600	600	0
4/22/2024 9:53	20402	ASHF_T2	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/22/2024 9:54	67502	WEWI_T2	7	15	8	0.37	0.42	0.05	-1.19	-1.12	1	1	0	900	900	0
4/22/2024 9:54	20403	ASHF_T2	1	3	2	0.1	0.7	0.6	-0.05	0.17	0	0	0	0	0	0
4/22/2024 9:54	45902	AUBU_T1	1	2	1	1.4	0.9	-0.5	-0.49	-0.58	1	1	0	600	600	0
4/22/2024 9:54	20402	ASHF_T2	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/22/2024 9:54	67203	TEHI_T1	0	1	1	0	0	0	2.02	2.02	2	2	0	1200	1200	0
4/22/2024 9:54	20401	ASHF_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/22/2024 9:55	11601	CEAL_T1	1	2	1	1	0.6	-0.4	0	0	1	1	0	1200	1200	0
4/22/2024 9:56	53601	DALM_T2	1	1	0	0.4	0.5	0.1	-0.22	-0.25	1	1	0	900	900	0
4/22/2024 9:56	67603	WARW_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/22/2024 9:56	67605	WARW_T1	38	113	75	0.56	0.38	-0.18	-1.1	-1.08	0	0	0	0	0	0
4/22/2024 9:57	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 9:57	66503	SMAN_T2	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
4/22/2024 9:57	66502	SMAN_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
4/22/2024 9:58	41502	FAIR_T2	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
4/22/2024 9:58	60801	BUCK_T1	0	0	0	0	0	0	-0.46	-0.45	1	1	0	600	600	0
4/22/2024 9:58	41501	FAIR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 9:59	45902	AUBU_T1	1	2	1	1.4	0.9	-0.5	-0.49	-0.58	1	1	0	600	600	0
4/22/2024 10:00	65005	NEFF_T2	11	23	12	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/22/2024 10:00	40303	TAMA_T3	2	2	0	0.55	0.65	0.1	2.39	2.35	0	0	0	0	0	0
4/22/2024 10:00	43103	SMIL_T2	13	13	0	0.3	0.44	0.14	0	0	0	0	0	0	0	0
4/22/2024 10:00	47403	PENS_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:00	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 10:00	40501	CRES_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:00	17002	RIRO_T2	6	11	5	0.63	0.55	-0.08	0.58	0.56	0	0	0	0	0	0
4/22/2024 10:00	59002	MIFF_T1	5	0	-5	0.26	0	-0.26	0	0	0	0	0	0	0	0
4/22/2024 10:00	13902	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:00	45702	LIND_T2	2	2	0	0.6	0.45	-0.15	-0.42	-0.41	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/22/2024 10:00	63801	HEMP_T1	9	21	12	0.37	0.39	0.02	0.21	0.26	0	0	0	0	0	0
4/22/2024 10:00	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 10:00	52001	LING_T1	0	1	1	0	0.4	0.4	0.22	0.24	0	0	0	0	0	0
4/22/2024 10:00	62607	ENGL_T1	1	2	1	0.2	0.35	0.15	-2.16	-2.3	2	2	0	600	600	0
4/22/2024 10:00	65004	NEFF_T2	448	613	165	0.2	0.26	0.06	0	0	0	0	0	0	0	0
4/22/2024 10:00	64904	MILL_T1	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
4/22/2024 10:00	52004	LING_T2	1	1	0	0.4	0.9	0.5	0.32	0.29	0	0	0	0	0	0
4/22/2024 10:00	67401	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:00	43105	SMIL_T2	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
4/22/2024 10:00	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 10:00	54001	SOLE_T1	8	3	-5	0.46	0.6	0.14	0	0	1	0	-1	600	0	-600
4/22/2024 10:00	62605	ENGL_T1	1	3	2	0.3	0.37	0.07	-0.84	-0.84	0	0	0	0	0	0
4/22/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-1.64	-1.47	2	2	0	2100	2100	0
4/22/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
4/22/2024 10:00	24102	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.78	1	1	0	900	900	0
4/22/2024 10:00	17101	WTRE_T2	2	2	0	8.8	8.75	-0.05	0	0	0	0	0	0	0	0
4/22/2024 10:00	42201	SHEN_T2	0	1	1	0	0.2	0.2	-0.35	-0.3	2	2	0	1200	1200	0
4/22/2024 10:00	66303	MCGO_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
4/22/2024 10:00	40302	TAMA_T3	17	18	1	0.39	0.44	0.05	0.29	0.32	0	0	0	0	0	0
4/22/2024 10:00	43102	SMIL_T2	3	4	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:00	63803	HEMP_T1	6	81	75	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
4/22/2024 10:00	52006	LING_T2	3	4	1	0.33	0.35	0.02	0	0	0	0	0	0	0	0
4/22/2024 10:00	15204	SFAR_T2	3	5	2	1.2	1	-0.2	0	-0.02	0	0	0	0	0	0
4/22/2024 10:00	67002	STHI_T2	260	311	51	0.2	0.22	0.02	0.66	0.65	0	0	0	0	0	0
4/22/2024 10:00	48303	ORWI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/22/2024 10:00	10805	CHHI_T2	6	13	7	1.43	1.3	-0.13	-0.81	-0.65	1	1	0	600	600	0
4/22/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.75	1.74	0	0	0	0	0	0
4/22/2024 10:00	12604	MACA_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
4/22/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	0.07	0	0	0	0	0	0	0
4/22/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
4/22/2024 10:00	40505	CRES_T1	4	4	0	3.7	3.9	0.2	0.44	0.44	0	0	0	0	0	0
4/22/2024 10:00	53803	MBRG_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
4/22/2024 10:00	53903	HALI_T2	5	7	2	0.58	0.71	0.13	0	0	0	0	0	0	0	0
4/22/2024 10:00	40701	FFLD_T1	28	33	5	0.24	0.32	0.08	0	0	0	0	0	0	0	0
4/22/2024 10:00	13704	SCHN_T2	1	1	0	0.6	0.3	-0.3	-0.36	-0.35	0	0	0	0	0	0
4/22/2024 10:00	47402	PENS_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/22/2024 10:00	62602	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:00	64802	MONE_T2	20	22	2	0.29	0.42	0.13	0	0	0	0	0	0	0	0
4/22/2024 10:00	50701	SMEC_T1	7	7	0	0.37	0.69	0.32	0.01	0.08	0	0	0	0	0	0
4/22/2024 10:00	42001	MNVL_T2	2	4	2	0.35	0.35	0	0.04	0.03	0	0	0	0	0	0
4/22/2024 10:00	43202	MVIL_T2	86	105	19	0.62	0.76	0.14	-0.59	-0.57	0	0	0	0	0	0
4/22/2024 10:00	40502	CRES_T2	6	23	17	0.12	0.3	0.18	-0.27	-0.26	0	0	0	0	0	0
4/22/2024 10:00	15103	UPHA_T2	1	1	0	0.6	0.8	0.2	0.36	0.42	0	0	0	0	0	0
4/22/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	1.08	1.14	0	0	0	0	0	0
4/22/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
4/22/2024 10:00	13701	SCHN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:00	45602	WOOL_T1	1	5	4	0.3	0.26	-0.04	0.46	0.45	0	0	0	0	0	0
4/22/2024 10:00	16103	BING_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
4/22/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-2.18	-2.18	0	0	0	0	0	0
4/22/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.26	-0.38	4	4	0	3000	3000	0
4/22/2024 10:00	64903	MILL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/22/2024 10:00	56601	HAMP_T1	1	0	-1	0.1	0	-0.1	-0.52	-0.65	0	0	0	0	0	0
4/22/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.33	0.36	1	1	0	600	600	0
4/22/2024 10:00	66302	MCGO_T2	284	15	-269	0.24	0.34	0.1	-1.66	-0.81	1	1	0	600	600	0
4/22/2024 10:00	65002	NEFF_T2	214	583	369	0.18	0.23	0.05	0	0	0	0	0	0	0	0
4/22/2024 10:00	43104	SMIL_T2	1	3	2	0.2	0.23	0.03	-0.77	-0.7	1	1	0	300	300	0
4/22/2024 10:00	65001	NEFF_T2	261	277	16	0.3	0.5	0.2	-0.43	-0.46	1	1	0	1200	1200	0
4/22/2024 10:00	24104	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:00	42002	MNVL_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
4/22/2024 10:00	60101	COCA_T1	0	0	0	0	0	0	0.33	0.29	0	0	0	0	0	0
4/22/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	0.71	0.75	2	2	0	1800	1800	0
4/22/2024 10:00	58001	WCAR_T1	4	4	0	0.28	0.5	0.22	0	0	0	0	0	0	0	0
4/22/2024 10:00	45902	AUBU_T1	1	3	2	1.4	0.67	-0.73	-0.49	-0.58	1	1	0	600	600	0
4/22/2024 10:00	62105	ELAN_T1	3	4	1	0.27	0.48	0.21	0	0	0	0	0	0	0	0
4/22/2024 10:00	61302	EARL_T1	1	1	0	0.6	0.7	0.1	0.77	0.83	2	2	0	1800	1800	0
4/22/2024 10:00	16101	BING_T2	0	2	2	0	0.3	0.3	0.36	0.34	0	0	0	0	0	0
4/22/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	0	-0.05	0	0	0	0	0	0
4/22/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.57	0.54	0	0	0	0	0	0
4/22/2024 10:00	40702	FFLD_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/22/2024 10:00	25603	ARRO_T1	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
4/22/2024 10:00	53801	MBRG_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:00	63306	GREE_T1	0	0	0	0	0	0	-1.17	-1.17	0	0	0	0	0	0
4/22/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	-0.92	-0.9	2	2	0	1200	1200	0
4/22/2024 10:00	40101	HUNT_T2	0	3	3	0	0	0	-1.65	-1.68	0	0	0	0	0	0
4/22/2024 10:00	59102	WALK_T2	7	5	-2	0.5	0.58	0.08	-0.16	-0.23	1	1	0	600	600	0
4/22/2024 10:00	40201	BEGA_T2	1	2	1	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
4/22/2024 10:00	58401	MORO_T1	1	3	2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/22/2024 10:00	15104	UPHA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 10:00	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:00	58803	COCO_T1	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:00	40703	FFLD_T1	2	3	1	0.2	0.13	-0.07	0.3	0.28	0	0	0	0	0	0
4/22/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.25	-0.27	1	1	0	1200	1200	0
4/22/2024 10:00	53901	HALI_T2	3	4	1	0.67	0.48	-0.19	-1.56	-1.52	0	0	0	0	0	0
4/22/2024 10:00	65003	NEFF_T2	203	372	169	0.23	0.35	0.12	0	0	0	0	0	0	0	0
4/22/2024 10:00	12605	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:00	63802	HEMP_T1	2	24	22	0.15	0.18	0.03	0	0	0	0	0	0	0	0
4/22/2024 10:00	63804	HEMP_T1	1	7	6	6.3	0.99	-5.31	0	0	0	0	0	0	0	0
4/22/2024 10:00	64801	MONE_T2	3	5	2	0.57	0.48	-0.09	0.29	0.22	0	0	0	0	0	0
4/22/2024 10:00	15203	SFAR_T2	114	99	-15	0.27	0.31	0.04	-2.67	-2.65	0	0	0	0	0	0
4/22/2024 10:00	57205	ROSS_T1	1	2	1	1.6	1.1	-0.5	0.1	0.1	0	0	0	0	0	0
4/22/2024 10:00	62102	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:00	16102	BING_T2	0	3	3	0	0.37	0.37	-0.79	-0.67	1	1	0	1200	1200	0
4/22/2024 10:00	59001	MIFF_T1	3	1	-2	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
4/22/2024 10:00	60701	BREC_T1	1	0	-1	0.1	0	-0.1	-0.25	-0.44	2	1	-1	1200	600	-600
4/22/2024 10:00	47401	PENS_T1	3	5	2	0.73	0.94	0.21	0.92	0.97	0	0	0	0	0	0
4/22/2024 10:00	43101	SMIL_T2	1	4	3	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
4/22/2024 10:00	13503	MCMI_T2	1	1	0	0.7	1.3	0.6	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 10:00	58003	WCAR_T1	1	1	0	0.7	0.8	0.1	0	0	1	1	0	600	600	0
4/22/2024 10:00	53501	EVIL_T2	2	4	2	0.75	0.48	-0.27	-0.63	-0.54	2	2	0	1200	1200	0
4/22/2024 10:00	48302	ORWI_T2	2	2	0	1.4	1.5	0.1	0.02	0.03	0	0	0	0	0	0
4/22/2024 10:00	24105	EHAZ_T1	4	4	0	6.93	6.68	-0.25	-0.7	-0.74	1	1	0	1200	1200	0
4/22/2024 10:00	59101	WALK_T2	18	3	-15	0.21	0.37	0.16	0	0	0	0	0	0	0	0
4/22/2024 10:00	59003	MIFF_T1	3	1	-2	0.33	0.1	-0.23	0.04	0.81	0	0	0	0	0	0
4/22/2024 10:00	12601	MACA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/22/2024 10:00	14603	SWHI_T1	5	6	1	0.66	0.93	0.27	0	0	0	0	0	0	0	0
4/22/2024 10:00	53902	HALI_T2	3	4	1	2.27	1.85	-0.42	0	0	0	0	0	0	0	0
4/22/2024 10:00	65702	RVIL_T2	13	25	12	0.32	0.34	0.02	-1.04	-1.03	1	1	0	600	600	0
4/22/2024 10:00	52002	LING_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
4/22/2024 10:00	67001	STHI_T2	494	601	107	0.21	0.25	0.04	0	0	0	0	0	0	0	0
4/22/2024 10:00	14601	SWHI_T1	1	6	5	0.5	0.42	-0.08	-0.97	-0.97	0	0	0	0	0	0
4/22/2024 10:02	50502	MECH_T1	1	1	0	1.9	2.1	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:02	50505	MECH_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/22/2024 10:02	66302	MCGO_T2	284	15	-269	0.24	0.34	0.1	-1.66	-0.81	1	1	0	600	600	0
4/22/2024 10:02	50504	MECH_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/22/2024 10:02	50503	MECH_T1	1	2	1	0.7	0.75	0.05	0	0	0	0	0	0	0	0
4/22/2024 10:02	50506	MECH_T1	1	4	3	1.3	0.63	-0.67	0	0	0	0	0	0	0	0
4/22/2024 10:02	50501	MECH_T1	4	4	0	1.28	0.85	-0.43	-0.13	-0.11	0	0	0	0	0	0
4/22/2024 10:02	66303	MCGO_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
4/22/2024 10:04	55001	NEWP_T1	4	36	32	0.38	0.35	-0.03	-0.24	-0.25	0	0	0	0	0	0
4/22/2024 10:04	59301	MCAL_T1	3	3	0	0.3	0.53	0.23	-1.36	-1.33	1	1	0	600	600	0
4/22/2024 10:04	66303	MCGO_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
4/22/2024 10:04	15204	SFAR_T2	3	5	2	1.2	1	-0.2	0	0	0	0	0	0	0	0
4/22/2024 10:04	15203	SFAR_T2	114	99	-15	0.27	0.31	0.04	-1.33	-1.32	0	0	0	0	0	0
4/22/2024 10:04	55002	NEWP_T1	10	12	2	0.76	0.7	-0.06	-0.38	-0.38	0	0	0	0	0	0
4/22/2024 10:04	59302	MCAL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/22/2024 10:04	66302	MCGO_T2	284	15	-269	0.24	0.34	0.1	-4.97	-2.43	3	3	0	1800	1800	0
4/22/2024 10:05	55002	NEWP_T1	10	12	2	0.76	0.7	-0.06	-0.19	-0.19	0	0	0	0	0	0
4/22/2024 10:05	43201	MVIL_T2	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
4/22/2024 10:05	43202	MVIL_T2	86	105	19	0.62	0.76	0.14	0	0	0	0	0	0	0	0
4/22/2024 10:05	55001	NEWP_T1	4	36	32	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
4/22/2024 10:06	67502	WEWI_T2	11	20	9	0.38	0.44	0.06	-1.19	-1.12	1	1	0	900	900	0
4/22/2024 10:06	67603	WARW_T1	0	2	2	0	0.65	0.65	0.05	0.03	0	0	0	0	0	0
4/22/2024 10:06	67605	WARW_T1	66	114	48	0.5	0.38	-0.12	0	0	0	0	0	0	0	0
4/22/2024 10:07	12807	MICK_T1	1	2	1	0.7	0.3	-0.4	0.2	0.19	0	0	0	0	0	0
4/22/2024 10:07	64305	LINC_T1	0	0	0	0	0	0	0.08	-0.1	0	0	0	0	0	0
4/22/2024 10:07	11103	EGYP_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/22/2024 10:07	17001	RIRO_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
4/22/2024 10:07	57106	SPHI_T2	3	6	3	1.37	1	-0.37	0	0	0	0	0	0	0	0
4/22/2024 10:07	46002	BERW_T2	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/22/2024 10:07	57101	SPHI_T2	6	10	4	0.67	0.89	0.22	0	0	0	0	0	0	0	0
4/22/2024 10:07	42902	MIDD_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:07	42903	MIDD_T2	0	0	0	0	0	0	0.69	0.4	1	1	0	1200	1200	0
4/22/2024 10:07	57104	SPHI_T2	5	11	6	0.36	0.5	0.14	-1.16	-1.15	0	0	0	0	0	0
4/22/2024 10:07	57205	ROSS_T1	1	2	1	1.6	1.1	-0.5	0.1	0.1	0	0	0	0	0	0
4/22/2024 10:07	29402	BELT_T1	1	2	1	7.4	3.95	-3.45	0	0	0	0	0	0	0	0
4/22/2024 10:07	22401	MORG_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/22/2024 10:07	57103	SPHI_T2	2	4	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:07	11104	EGYP_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:07	54602	SUMM_T2	0	0	0	0	0	0	-2.47	-2.47	1	1	0	600	600	0
4/22/2024 10:07	22405	MORG_T2	0	0	0	0	0	0	-1.56	-1.52	0	0	0	0	0	0
4/22/2024 10:07	29401	BELT_T1	0	1	1	0	0.2	0.2	0	0	3	3	0	2700	2700	0
4/22/2024 10:07	54601	SUMM_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/22/2024 10:07	11102	EGYP_T1	3	3	0	1.1	1.53	0.43	0	0	0	0	0	0	0	0
4/22/2024 10:07	60504	NMAN_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 10:07	46004	BERW_T2	0	0	0	0	0	0	-0.13	-0.1	0	0	0	0	0	0
4/22/2024 10:07	60502	NMAN_T2	0	0	0	0	0	0	-0.35	-0.29	0	0	0	0	0	0
4/22/2024 10:07	60501	NMAN_T2	3	6	3	4.33	2.48	-1.85	0	0	0	0	0	0	0	0
4/22/2024 10:07	11101	EGYP_T1	0	1	1	0	0	0	0	0	1	1	0	1200	1200	0
4/22/2024 10:08	45902	AUBU_T1	1	3	2	1.4	0.67	-0.73	-0.58	-0.62	1	1	0	600	600	0
4/22/2024 10:08	40902	JESH_T1	0	0	0	0	0	0	-0.09	0.23	1	1	0	600	600	0
4/22/2024 10:08	51003	NHAR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/22/2024 10:08	22104	EDEL_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/22/2024 10:08	50503	MECH_T1	1	2	1	0.7	0.75	0.05	0	0	0	0	0	0	0	0
4/22/2024 10:08	59101	WALK_T2	18	3	-15	0.21	0.37	0.16	0	0	0	0	0	0	0	0
4/22/2024 10:08	67401	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:08	44502	HAMI_T2	1	2	1	1.9	1.2	-0.7	0	0	0	0	0	0	0	0
4/22/2024 10:08	22102	EDEL_T1	3	4	1	0.13	0.15	0.02	-1.25	-1.33	1	1	0	1200	1200	0
4/22/2024 10:08	50504	MECH_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/22/2024 10:08	12601	MACA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/22/2024 10:08	44505	HAMI_T2	0	0	0	0	0	0	0.72	0.69	0	0	0	0	0	0
4/22/2024 10:08	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/22/2024 10:08	50501	MECH_T1	4	4	0	1.28	0.85	-0.43	0	0	0	0	0	0	0	0
4/22/2024 10:08	56501	ROCK_T2	3	4	1	0.67	0.57	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 10:08	15204	SFAR_T2	3	5	2	1.2	1	-0.2	0	0	0	0	0	0	0	0
4/22/2024 10:08	15203	SFAR_T2	114	99	-15	0.27	0.31	0.04	-2.67	-2.65	0	0	0	0	0	0
4/22/2024 10:08	60801	BUCK_T1	0	0	0	0	0	0	-0.45	-0.47	1	1	0	600	600	0
4/22/2024 10:08	67402	WAKE_T2	0	0	0	0	0	0	0.36	0.35	1	1	0	600	600	0
4/22/2024 10:08	50502	MECH_T1	1	1	0	1.9	2.1	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:08	58102	NEKI_T1	3	6	3	1.03	0.76	-0.27	-1.07	-1.11	1	1	0	1200	1200	0
4/22/2024 10:08	42201	SHEN_T2	0	1	1	0	0.2	0.2	-0.15	-0.16	1	1	0	600	600	0
4/22/2024 10:08	56504	ROCK_T2	1	2	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/22/2024 10:08	51002	NHAR_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:08	51004	NHAR_T1	14	14	0	1.14	1.22	0.08	0	0	0	0	0	0	0	0
4/22/2024 10:08	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:08	59102	WALK_T2	7	5	-2	0.5	0.58	0.08	-0.23	-0.23	1	1	0	600	600	0
4/22/2024 10:08	50505	MECH_T1	1	1	0	0.1	0.4	0.3	-0.9	-0.88	0	0	0	0	0	0
4/22/2024 10:08	58101	NEKI_T1	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
4/22/2024 10:08	12605	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:08	46001	BERW_T1	0	0	0	0	0	0	1.13	1.12	0	0	0	0	0	0
4/22/2024 10:08	12604	MACA_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
4/22/2024 10:08	50506	MECH_T1	1	4	3	1.3	0.63	-0.67	0	0	0	0	0	0	0	0
4/22/2024 10:08	53501	EVIL_T2	2	4	2	0.75	0.48	-0.27	-0.27	-0.22	1	1	0	600	600	0
4/22/2024 10:09	62602	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:09	15204	SFAR_T2	3	5	2	1.2	1	-0.2	0	0	0	0	0	0	0	0
4/22/2024 10:09	10801	CHHI_T1	0	7	7	0	0.73	0.73	-2.55	-2.17	3	3	0	2700	2700	0
4/22/2024 10:09	29401	BELT_T1	0	1	1	0	0.2	0.2	0	0	1	1	0	900	900	0
4/22/2024 10:09	67502	WEWI_T2	11	20	9	0.38	0.44	0.06	-1.12	-1.13	1	1	0	900	900	0
4/22/2024 10:09	15001	BLMO_T1	2	4	2	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
4/22/2024 10:09	45901	AUBU_T1	0	0	0	0	0	0	1.87	1.83	0	0	0	0	0	0
4/22/2024 10:09	29402	BELT_T1	1	2	1	7.4	3.95	-3.45	0	0	0	0	0	0	0	0
4/22/2024 10:09	51101	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:09	40101	HUNT_T2	0	3	3	0	0	0	-0.56	-0.55	0	0	0	0	0	0
4/22/2024 10:09	62607	ENGL_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/22/2024 10:09	51102	CARL_T1	11	15	4	0.25	0.25	0	0	0	0	0	0	0	0	0
4/22/2024 10:09	51109	CARL_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
4/22/2024 10:09	15203	SFAR_T2	114	99	-15	0.27	0.31	0.04	-1.32	-1.35	0	0	0	0	0	0
4/22/2024 10:09	45602	WOOL_T1	1	5	4	0.3	0.26	-0.04	0.45	0.43	0	0	0	0	0	0
4/22/2024 10:09	62604	ENGL_T1	0	0	0	0	0	0	-0.25	-0.12	1	1	0	600	600	0
4/22/2024 10:09	51108	CARL_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/22/2024 10:09	62605	ENGL_T1	1	3	2	0.3	0.37	0.07	0	0	0	0	0	0	0	0
4/22/2024 10:09	45902	AUBU_T1	1	3	2	1.4	0.67	-0.73	0	0	0	0	0	0	0	0
4/22/2024 10:10	45902	AUBU_T1	1	3	2	1.4	0.67	-0.73	-1.17	-1.23	2	2	0	1200	1200	0
4/22/2024 10:10	54503	ENOL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/22/2024 10:10	51101	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:10	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/22/2024 10:10	51102	CARL_T1	11	15	4	0.25	0.25	0	0	0	0	0	0	0	0	0
4/22/2024 10:10	15001	BLMO_T1	2	4	2	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
4/22/2024 10:10	54505	ENOL_T2	3	3	0	0.87	1.1	0.23	0	0	0	0	0	0	0	0
4/22/2024 10:10	54501	ENOL_T2	7	7	0	0.57	0.81	0.24	-0.5	-0.53	1	1	0	600	600	0
4/22/2024 10:10	51108	CARL_T1	1	1	0	0.3	0.3	0	-0.47	-0.49	1	1	0	600	600	0
4/22/2024 10:11	45902	AUBU_T1	1	3	2	1.4	0.67	-0.73	-0.58	-0.62	1	1	0	600	600	0
4/22/2024 10:11	29402	BELT_T1	1	2	1	7.4	3.95	-3.45	0	0	0	0	0	0	0	0
4/22/2024 10:11	11601	CEAL_T1	1	2	1	1	0.7	-0.3	0	0	1	1	0	1200	1200	0
4/22/2024 10:11	29401	BELT_T1	0	1	1	0	0.2	0.2	0	0	1	1	0	900	900	0
4/22/2024 10:11	45901	AUBU_T1	0	0	0	0	0	0	1.87	1.83	0	0	0	0	0	0
4/22/2024 10:11	28403	HART_T2	0	0	0	0	0	0	-0.96	-0.95	1	1	0	900	900	0
4/22/2024 10:12	53601	DALM_T2	1	1	0	0.3	0.5	0.2	-0.25	-0.15	1	1	0	900	900	0
4/22/2024 10:14	20603	GRWO_T2	1	3	2	0.3	0.37	0.07	0.4	0.39	0	0	0	0	0	0
4/22/2024 10:14	40101	HUNT_T2	0	3	3	0	0	0	-0.56	-0.55	0	0	0	0	0	0
4/22/2024 10:14	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
4/22/2024 10:14	50103	HARR_T3	3	3	0	0.73	0.77	0.04	-1.12	-1.09	1	1	0	1200	1200	0
4/22/2024 10:14	41504	FAIR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 10:14	50105	HARR_T3	6	6	0	6.05	6.02	-0.03	0	0	0	0	0	0	0	0
4/22/2024 10:15	17401	FOHI_T1	1	1	0	0.6	0.7	0.1	-1.02	-1.05	0	0	0	0	0	0
4/22/2024 10:15	42902	MIDD_T2	2	14	12	0.2	0.44	0.24	-0.92	-0.94	1	1	0	600	600	0
4/22/2024 10:15	45702	LIND_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:15	45701	LIND_T2	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
4/22/2024 10:16	50105	HARR_T3	6	6	0	6.07	6.03	-0.04	0	0	0	0	0	0	0	0
4/22/2024 10:16	11804	FRAN_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:16	50103	HARR_T3	3	5	2	0.63	0.56	-0.07	-2.24	-2.18	2	2	0	2400	2400	0
4/22/2024 10:16	63302	GREE_T1	0	0	0	0	0	0	0.6	0.66	0	0	0	0	0	0
4/22/2024 10:16	11805	FRAN_T1	0	0	0	0	0	0	-0.99	-1.08	1	1	0	1200	1200	0
4/22/2024 10:16	45701	LIND_T2	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
4/22/2024 10:16	45702	LIND_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:16	65503	MOJO_T2	0	0	0	0	0	0	-0.33	-0.27	0	0	0	0	0	0
4/22/2024 10:16	42902	MIDD_T2	2	14	12	0.2	0.44	0.24	-1.84	-1.87	2	2	0	1200	1200	0
4/22/2024 10:17	50105	HARR_T3	6	6	0	6.07	6.03	-0.04	0	0	0	0	0	0	0	0
4/22/2024 10:17	64204	KINZ_T1	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/22/2024 10:17	50103	HARR_T3	3	5	2	0.63	0.56	-0.07	-1.12	-1.09	1	1	0	1200	1200	0
4/22/2024 10:17	51201	MTON_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:17	64201	KINZ_T1	0	0	0	0	0	0	-0.44	-0.43	4	4	0	2100	2100	0
4/22/2024 10:17	64202	KINZ_T1	3	3	0	0.73	0.73	0	0	0	0	0	0	0	0	0
4/22/2024 10:18	40602	PIGR_T1	1	3	2	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:18	45702	LIND_T2	2	2	0	0.35	0.55	0.2	-0.82	-0.83	0	0	0	0	0	0
4/22/2024 10:18	40601	PIGR_T1	69	121	52	0.24	0.28	0.04	0.05	0.04	0	0	0	0	0	0
4/22/2024 10:18	42902	MIDD_T2	2	14	12	0.2	0.44	0.24	-1.84	-1.87	2	2	0	1200	1200	0
4/22/2024 10:18	51204	MTON_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/22/2024 10:18	42201	SHEN_T2	1	1	0	0.2	0.3	0.1	-0.15	-0.16	1	1	0	600	600	0
4/22/2024 10:18	51202	MTON_T2	1	3	2	0.8	0.77	-0.03	0.46	0.46	0	0	0	0	0	0
4/22/2024 10:18	40603	PIGR_T1	2	2	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
4/22/2024 10:19	54203	PENN_T1	18	18	0	1.35	1.39	0.04	0.05	0.05	0	0	0	0	0	0
4/22/2024 10:19	54201	PENN_T1	11	11	0	0.67	0.9	0.23	0	0	0	0	0	0	0	0
4/22/2024 10:19	46302	ROHR_T1	5	9	4	1.7	1.27	-0.43	0	0	0	0	0	0	0	0
4/22/2024 10:19	40602	PIGR_T1	1	3	2	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:19	46301	ROHR_T1	114	145	31	0.26	0.32	0.06	0.24	0.23	0	0	0	0	0	0
4/22/2024 10:19	25502	MADI_T1	2	1	-1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:19	40601	PIGR_T1	69	121	52	0.24	0.28	0.04	0.05	0.04	0	0	0	0	0	0
4/22/2024 10:19	40603	PIGR_T1	2	2	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
4/22/2024 10:19	14404	SSLA_T1	1	3	2	5	1.83	-3.17	0	0	0	0	0	0	0	0
4/22/2024 10:19	14403	SSLA_T1	0	1	1	0	0.2	0.2	0.77	0.67	0	0	0	0	0	0
4/22/2024 10:19	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:19	14401	SSLA_T1	1	2	1	1.2	0.45	-0.75	0	0	0	0	0	0	0	0
4/22/2024 10:19	57402	SPAN_T2	2	1	-1	0.45	0.9	0.45	-1.22	-1.21	0	0	0	0	0	0
4/22/2024 10:19	25503	MADI_T1	1	2	1	0.3	0.4	0.1	-1.03	-0.99	0	0	0	0	0	0
4/22/2024 10:19	25501	MADI_T1	2	3	1	0.55	0.37	-0.18	0	0	0	0	0	0	0	0
4/22/2024 10:20	24901	WHHA_T1	1	2	1	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
4/22/2024 10:20	24902	WHHA_T1	57	70	13	0.71	0.95	0.24	0	0	0	0	0	0	0	0
4/22/2024 10:21	67702	WERN_T2	2	3	1	0.85	0.57	-0.28	0	0	0	0	0	0	0	0
4/22/2024 10:21	66701	STRA_T1	2	1	-1	1.15	2	0.85	0	0	0	0	0	0	0	0
4/22/2024 10:21	20401	ASHF_T2	1	3	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/22/2024 10:21	65904	SAKR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:21	67703	WERN_T2	5	4	-1	0.48	0.45	-0.03	-0.25	-0.27	1	1	0	900	900	0
4/22/2024 10:21	57401	SPAN_T1	2	2	0	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
4/22/2024 10:21	20403	ASHF_T2	0	10	10	0	0.6	0.6	0.17	0.2	0	0	0	0	0	0
4/22/2024 10:21	67701	WERN_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/22/2024 10:21	24901	WHHA_T1	1	2	1	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
4/22/2024 10:21	24902	WHHA_T1	57	70	13	0.71	0.95	0.24	0	0	0	0	0	0	0	0
4/22/2024 10:21	66703	STRA_T1	1	0	-1	0.3	0	-0.3	-0.16	-0.18	0	0	0	0	0	0
4/22/2024 10:21	65901	SAKR_T2	2	2	0	4.7	5.15	0.45	-1.26	-1.23	1	1	0	900	900	0
4/22/2024 10:21	57403	SPAN_T1	91	110	19	0.26	0.3	0.04	-0.02	-0.02	0	0	0	0	0	0
4/22/2024 10:21	20402	ASHF_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/22/2024 10:21	54206	PENN_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
4/22/2024 10:22	14602	SWHI_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/22/2024 10:22	51101	CARL_T1	0	2	2	0	0.1	0.1	-1.17	-1.16	1	1	0	600	600	0
4/22/2024 10:22	51102	CARL_T1	13	9	-4	0.25	0.38	0.13	0	0	0	0	0	0	0	0
4/22/2024 10:22	14601	SWHI_T1	4	7	3	0.45	0.44	-0.01	0	0	0	0	0	0	0	0
4/22/2024 10:22	59101	WALK_T2	3	8	5	0.37	0.48	0.11	3.8	4.61	0	0	0	0	0	0
4/22/2024 10:22	15204	SFAR_T2	4	6	2	1.05	0.85	-0.2	-0.01	0.01	0	0	0	0	0	0
4/22/2024 10:22	46301	ROHR_T1	114	145	31	0.26	0.32	0.06	0.24	0.23	0	0	0	0	0	0
4/22/2024 10:22	15203	SFAR_T2	97	66	-31	0.31	0.27	-0.04	0	0	0	0	0	0	0	0
4/22/2024 10:22	14603	SWHI_T1	5	6	1	0.8	1.27	0.47	-0.36	-0.38	0	0	0	0	0	0
4/22/2024 10:22	45902	AUBU_T1	2	3	1	0.9	0.63	-0.27	-0.58	-0.62	1	1	0	600	600	0
4/22/2024 10:22	13704	SCHN_T2	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/22/2024 10:22	59102	WALK_T2	5	6	1	0.56	0.58	0.02	0	0	0	0	0	0	0	0
4/22/2024 10:22	13701	SCHN_T2	1	3	2	0.1	0.17	0.07	0.01	0.04	1	1	0	600	600	0
4/22/2024 10:22	51109	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:22	51108	CARL_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/22/2024 10:22	46302	ROHR_T1	5	9	4	1.7	1.27	-0.43	0.4	0.42	0	0	0	0	0	0
4/22/2024 10:23	56503	ROCK_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:23	13902	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:23	56501	ROCK_T2	2	4	2	0.7	0.53	-0.17	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 10:23	67703	WERN_T2	5	4	-1	0.48	0.45	-0.03	-0.54	1.36	2	2	0	1800	1800	0
4/22/2024 10:23	43301	WATS_T2	1	3	2	0.1	0.37	0.27	-0.76	-0.75	1	1	0	900	900	0
4/22/2024 10:23	67702	WERN_T2	2	3	1	0.85	0.57	-0.28	-0.01	-0.06	0	0	0	0	0	0
4/22/2024 10:23	13901	SEID_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
4/22/2024 10:23	43302	WATS_T2	4	4	0	0.15	0.33	0.18	0	0	0	0	0	0	0	0
4/22/2024 10:23	43304	WATS_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/22/2024 10:23	67701	WERN_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/22/2024 10:23	56504	ROCK_T2	1	2	1	0.3	0.55	0.25	0	0	0	0	0	0	0	0
4/22/2024 10:24	67703	WERN_T2	5	4	-1	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
4/22/2024 10:24	14401	SSLA_T1	1	2	1	1.2	0.45	-0.75	0	0	0	0	0	0	0	0
4/22/2024 10:24	67702	WERN_T2	2	3	1	0.85	0.57	-0.28	-0.01	-0.06	0	0	0	0	0	0
4/22/2024 10:24	67701	WERN_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/22/2024 10:24	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:24	14403	SSLA_T1	0	1	1	0	0.2	0.2	0.67	0.72	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/22/2024 10:24	14601	SWHI_T1	4	7	3	0.45	0.44	-0.01	-0.97	-0.99	0	0	0	0	0	0
4/22/2024 10:24	14603	SWHI_T1	5	6	1	0.8	1.27	0.47	0	0	0	0	0	0	0	0
4/22/2024 10:24	14404	SSLA_T1	1	3	2	5	1.83	-3.17	0	0	0	0	0	0	0	0
4/22/2024 10:24	14602	SWHI_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/22/2024 10:25	67702	WERN_T2	2	3	1	0.85	0.57	-0.28	-0.01	-0.06	0	0	0	0	0	0
4/22/2024 10:25	41602	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:25	10704	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:25	10702	CATA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/22/2024 10:25	10701	CATA_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/22/2024 10:25	41601	CLEV_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:25	15204	SFAR_T2	4	6	2	1.05	0.85	-0.2	0.01	0	0	0	0	0	0	0
4/22/2024 10:25	54505	ENOL_T2	3	2	-1	0.97	1.5	0.53	-1.31	-1.34	1	1	0	600	600	0
4/22/2024 10:25	20401	ASHF_T2	1	3	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/22/2024 10:25	67701	WERN_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/22/2024 10:25	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/22/2024 10:25	20402	ASHF_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/22/2024 10:25	54503	ENOL_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:25	10707	CATA_T2	2	2	0	0.45	0.4	-0.05	0.41	0.4	0	0	0	0	0	0
4/22/2024 10:25	67703	WERN_T2	5	4	-1	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
4/22/2024 10:25	54501	ENOL_T2	7	8	1	0.66	0.88	0.22	0	0	0	0	0	0	0	0
4/22/2024 10:25	10705	CATA_T2	1	4	3	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/22/2024 10:25	15203	SFAR_T2	97	66	-31	0.31	0.27	-0.04	0	0	0	0	0	0	0	0
4/22/2024 10:25	20403	ASHF_T2	0	10	10	0	0.6	0.6	0.2	0.12	0	0	0	0	0	0
4/22/2024 10:26	10705	CATA_T2	1	4	3	0.2	0.45	0.25	-1.85	-1.89	2	2	0	1800	1800	0
4/22/2024 10:26	67703	WERN_T2	5	4	-1	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
4/22/2024 10:26	41602	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:26	10707	CATA_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
4/22/2024 10:26	67702	WERN_T2	2	3	1	0.85	0.57	-0.28	-0.01	-0.06	0	0	0	0	0	0
4/22/2024 10:26	10704	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:26	10701	CATA_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/22/2024 10:26	41601	CLEV_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:26	10702	CATA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/22/2024 10:26	67701	WERN_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/22/2024 10:27	20601	GRWO_T2	0	0	0	0	0	0	0.09	0.13	0	0	0	0	0	0
4/22/2024 10:27	51601	DUKE_T1	2	3	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:27	67702	WERN_T2	2	3	1	0.85	0.57	-0.28	-0.01	-0.06	0	0	0	0	0	0
4/22/2024 10:27	41601	CLEV_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:27	67603	WARW_T1	2	2	0	0.25	0.8	0.55	0	0	0	0	0	0	0	0
4/22/2024 10:27	67703	WERN_T2	5	4	-1	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
4/22/2024 10:27	10701	CATA_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/22/2024 10:27	51603	DUKE_T1	3	5	2	0.77	0.68	-0.09	-0.52	-0.51	0	0	0	0	0	0
4/22/2024 10:27	10702	CATA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/22/2024 10:27	67701	WERN_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/22/2024 10:27	67605	WARW_T1	108	111	3	0.37	0.42	0.05	-1.1	-1.11	0	0	0	0	0	0
4/22/2024 10:27	20603	GRWO_T2	2	4	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:27	41602	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:27	54501	ENOL_T2	7	8	1	0.66	0.88	0.22	0	0	0	0	0	0	0	0
4/22/2024 10:27	10705	CATA_T2	1	4	3	0.2	0.45	0.25	-0.92	-0.95	1	1	0	900	900	0
4/22/2024 10:27	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/22/2024 10:27	46004	BERW_T2	0	0	0	0	0	0	-0.07	-0.2	0	0	0	0	0	0
4/22/2024 10:27	10704	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:27	46002	BERW_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/22/2024 10:27	54505	ENOL_T2	3	2	-1	0.97	1.5	0.53	-1.31	-1.34	1	1	0	600	600	0
4/22/2024 10:27	10707	CATA_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
4/22/2024 10:27	54503	ENOL_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:28	10705	CATA_T2	1	4	3	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/22/2024 10:28	67501	WEWI_T1	4	11	7	0.93	0.63	-0.3	-1.2	-1.09	1	1	0	600	600	0
4/22/2024 10:28	67505	WEWI_T1	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:28	56501	ROCK_T2	2	4	2	0.7	0.53	-0.17	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 10:28	67703	WERN_T2	5	4	-1	0.48	0.45	-0.03	-0.27	0.68	1	0	-1	900	0	-900
4/22/2024 10:28	67701	WERN_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/22/2024 10:28	67605	WARW_T1	108	111	3	0.37	0.42	0.05	-1.1	-1.11	0	0	0	0	0	0
4/22/2024 10:28	67603	WARW_T1	2	2	0	0.25	0.8	0.55	0	0	0	0	0	0	0	0
4/22/2024 10:28	56503	ROCK_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:28	67702	WERN_T2	2	3	1	0.85	0.57	-0.28	0	0	0	0	0	0	0	0
4/22/2024 10:28	10704	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:28	10701	CATA_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/22/2024 10:28	10702	CATA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/22/2024 10:28	10707	CATA_T2	2	2	0	0.45	0.4	-0.05	0.41	0.4	0	0	0	0	0	0
4/22/2024 10:28	56504	ROCK_T2	1	2	1	0.3	0.55	0.25	0	0	0	0	0	0	0	0
4/22/2024 10:29	64702	LITI_T2	0	1	1	0	0	0	-0.7	-0.75	0	0	0	0	0	0
4/22/2024 10:29	67603	WARW_T1	2	2	0	0.25	0.8	0.55	0.04	0.07	0	0	0	0	0	0
4/22/2024 10:29	67605	WARW_T1	108	111	3	0.37	0.42	0.05	0	0	0	0	0	0	0	0
4/22/2024 10:30	50105	HARR_T3	6	6	0	6.13	5.97	-0.16	0	0	0	0	0	0	0	0
4/22/2024 10:30	67703	WERN_T2	4	2	-2	0.45	0.55	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:30	67605	WARW_T1	52	110	58	0.55	0.49	-0.06	-1.1	-1.11	0	0	0	0	0	0
4/22/2024 10:30	67702	WERN_T2	3	2	-1	0.5	0.85	0.35	-0.01	-0.06	0	0	0	0	0	0
4/22/2024 10:30	62602	ENGL_T1	1	1	0	0.2	0.5	0.3	0.07	0.07	0	0	0	0	0	0
4/22/2024 10:30	50102	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:30	57306	MOAL_T2	2	3	1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
4/22/2024 10:30	62605	ENGL_T1	3	5	2	0.33	0.36	0.03	0	0	0	0	0	0	0	0
4/22/2024 10:30	62607	ENGL_T1	2	4	2	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
4/22/2024 10:30	57303	MOAL_T2	1	1	0	6.9	6.6	-0.3	0	0	0	0	0	0	0	0
4/22/2024 10:30	67701	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 10:30	67603	WARW_T1	2	3	1	0.65	0.77	0.12	0	0	0	0	0	0	0	0
4/22/2024 10:30	64702	LITI_T2	0	0	0	0	0	0	-0.7	-0.75	0	0	0	0	0	0
4/22/2024 10:30	57304	MOAL_T2	27	49	22	0.24	0.3	0.06	-0.59	-0.58	0	0	0	0	0	0
4/22/2024 10:30	50103	HARR_T3	3	6	3	0.77	0.55	-0.22	-1.09	-1.09	1	1	0	1200	1200	0
4/22/2024 10:31	13302	ORVI_T2	2	2	0	0.45	0.65	0.2	1.31	1.39	0	0	0	0	0	0
4/22/2024 10:31	64902	MILL_T2	0	0	0	0	0	0	-0.81	0.24	1	0	-1	900	0	-900
4/22/2024 10:31	40101	HUNT_T2	2	3	1	0.3	0.35	0.05	-0.55	-0.54	0	0	0	0	0	0
4/22/2024 10:31	64903	MILL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/22/2024 10:32	41902	REED_T1	1	4	3	0.4	0.45	0.05	1.15	1.16	0	0	0	0	0	0
4/22/2024 10:32	41903	REED_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 10:32	56503	ROCK_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:32	41901	REED_T1	0	8	8	0	0.19	0.19	0	0	0	0	0	0	0	0
4/22/2024 10:32	56504	ROCK_T2	2	3	1	0.15	0.75	0.6	0	0	0	0	0	0	0	0
4/22/2024 10:32	64702	LITI_T2	0	0	0	0	0	0	-0.7	-0.75	0	0	0	0	0	0
4/22/2024 10:32	56501	ROCK_T2	4	3	-1	0.65	0.7	0.05	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 10:33	15603	NSTR_T2	1	2	1	0.8	0.85	0.05	-0.59	-0.64	0	0	0	0	0	0
4/22/2024 10:33	15602	NSTR_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 10:33	15601	NSTR_T2	3	6	3	0.43	0.53	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:34	57403	SPAN_T1	110	105	-5	0.29	0.28	-0.01	-0.02	-0.03	0	0	0	0	0	0
4/22/2024 10:34	57401	SPAN_T1	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
4/22/2024 10:35	41903	REED_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 10:35	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 10:35	65206	PRIN_T4	1	0	-1	3.4	0	-3.4	0	0	0	0	0	0	0	0
4/22/2024 10:35	41901	REED_T1	0	8	8	0	0.19	0.19	0	0	0	0	0	0	0	0
4/22/2024 10:35	41902	REED_T1	1	4	3	0.4	0.45	0.05	1.15	1.16	0	0	0	0	0	0
4/22/2024 10:36	43104	SMIL_T2	3	3	0	0.23	0.5	0.27	0	0	0	0	0	0	0	0
4/22/2024 10:36	60504	NMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
4/22/2024 10:36	43105	SMIL_T2	2	3	1	0.6	0.63	0.03	0	0	0	0	0	0	0	0
4/22/2024 10:36	43302	WATS_T2	4	4	0	0.3	0.33	0.03	0	0	0	0	0	0	0	0
4/22/2024 10:36	43102	SMIL_T2	4	6	2	0.25	0.53	0.28	0	0	0	0	0	0	0	0
4/22/2024 10:36	43103	SMIL_T2	13	22	9	0.44	0.8	0.36	0	0	0	0	0	0	0	0
4/22/2024 10:36	43304	WATS_T2	1	2	1	0.2	0.1	-0.1	-0.52	-0.51	0	0	0	0	0	0
4/22/2024 10:36	65205	PRIN_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:36	43101	SMIL_T2	3	5	2	0.6	0.68	0.08	-0.75	-0.78	0	0	0	0	0	0
4/22/2024 10:36	43301	WATS_T2	3	3	0	0.23	0.37	0.14	0	0	0	0	0	0	0	0
4/22/2024 10:36	60501	NMAN_T2	6	6	0	2.32	2.58	0.26	0	0	0	0	0	0	0	0
4/22/2024 10:36	60502	NMAN_T2	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
4/22/2024 10:38	67701	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 10:38	67703	WERN_T2	4	2	-2	0.45	0.55	0.1	0.68	0.68	1	0	-1	900	0	-900
4/22/2024 10:38	67702	WERN_T2	3	2	-1	0.5	0.85	0.35	0	0	0	0	0	0	0	0
4/22/2024 10:38	44301	BEAV_T2	3	20	17	0.53	0.41	-0.12	0.34	0.24	2	2	0	1500	1500	0
4/22/2024 10:38	15201	SFAR_T1	0	0	0	0	0	0	-0.47	-0.51	2	2	0	1800	1800	0
4/22/2024 10:39	64101	REFR_T1	1	1	0	0.2	0.4	0.2	-1.17	-1.17	0	0	0	0	0	0
4/22/2024 10:39	29402	BELT_T1	2	2	0	3.95	4	0.05	0	0	0	0	0	0	0	0
4/22/2024 10:39	29401	BELT_T1	1	1	0	0.2	0.7	0.5	0	0	1	1	0	900	900	0
4/22/2024 10:40	59102	WALK_T2	5	6	1	0.58	0.55	-0.03	0	0	0	0	0	0	0	0
4/22/2024 10:40	10805	CHHI_T2	12	9	-3	1.19	8.4	7.21	-0.39	-0.44	1	1	0	600	600	0
4/22/2024 10:40	59101	WALK_T2	1	8	7	0.8	0.48	-0.32	1.73	1.97	0	0	0	0	0	0
4/22/2024 10:40	15001	BLMO_T1	2	3	1	0.3	0.37	0.07	0	0	0	0	0	0	0	0
4/22/2024 10:41	46203	DANV_T2	5	10	5	0.28	0.42	0.14	0	0	0	0	0	0	0	0
4/22/2024 10:41	44301	BEAV_T2	3	20	17	0.53	0.41	-0.12	0.24	0.09	2	2	0	1500	1500	0
4/22/2024 10:41	42701	AUGU_T1	3	3	0	0.63	0.5	-0.13	0	0	4	2	-2	3600	1200	-2400
4/22/2024 10:41	46206	DANV_T2	0	0	0	0	0	0	1.94	1.92	0	0	0	0	0	0
4/22/2024 10:41	62102	ELAN_T1	1	0	-1	0.2	0	-0.2	0.61	0.62	0	0	0	0	0	0
4/22/2024 10:41	62105	ELAN_T1	4	3	-1	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
4/22/2024 10:41	53901	HALI_T2	4	9	5	0.45	0.38	-0.07	-1.53	-1.5	0	0	0	0	0	0
4/22/2024 10:41	53903	HALI_T2	7	13	6	0.69	0.67	-0.02	0	0	0	0	0	0	0	0
4/22/2024 10:41	53902	HALI_T2	3	6	3	2.4	1.6	-0.8	0	0	0	0	0	0	0	0
4/22/2024 10:42	53901	HALI_T2	4	9	5	0.45	0.38	-0.07	-3.07	-3.01	0	0	0	0	0	0
4/22/2024 10:42	53903	HALI_T2	7	13	6	0.69	0.67	-0.02	0	0	0	0	0	0	0	0
4/22/2024 10:42	53902	HALI_T2	3	6	3	2.4	1.6	-0.8	0	0	0	0	0	0	0	0
4/22/2024 10:43	60901	DONG_T2	10	8	-2	0.57	0.63	0.06	0	0	0	0	0	0	0	0
4/22/2024 10:43	60904	DONG_T2	3	0	-3	0.53	0.53	0	0	0	0	0	0	0	0	0
4/22/2024 10:43	60902	DONG_T2	1	1	0	0.6	0.6	0	0.68	0.68	0	0	0	0	0	0
4/22/2024 10:43	60903	DONG_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:44	41501	FAIR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 10:44	53902	HALI_T2	3	6	3	2.4	1.6	-0.8	0	0	0	0	0	0	0	0
4/22/2024 10:44	41504	FAIR_T2	0	0	0	0	0	0	-0.99	0.34	0	0	0	0	0	0
4/22/2024 10:44	46206	DANV_T2	0	0	0	0	0	0	1.94	1.92	0	0	0	0	0	0
4/22/2024 10:44	56504	ROCK_T2	2	3	1	0.15	0.75	0.6	0	0	0	0	0	0	0	0
4/22/2024 10:44	56503	ROCK_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:44	63601	LETO_T1	6	4	-2	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
4/22/2024 10:44	13502	MCMI_T1	1	4	3	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/22/2024 10:44	13501	MCMI_T1	0	0	0	0	0	0	0.07	0.12	0	0	0	0	0	0
4/22/2024 10:44	53901	HALI_T2	4	9	5	0.45	0.38	-0.07	-1.53	-1.5	0	0	0	0	0	0
4/22/2024 10:44	53903	HALI_T2	7	13	6	0.69	0.67	-0.02	0	0	0	0	0	0	0	0
4/22/2024 10:44	46203	DANV_T2	5	10	5	0.28	0.42	0.14	0	0	0	0	0	0	0	0
4/22/2024 10:44	63602	LETO_T1	78	0	-78	0.16	0	-0.16	-0.39	-0.42	0	0	0	0	0	0
4/22/2024 10:44	56501	ROCK_T2	4	3	-1	0.65	0.7	0.05	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/22/2024 10:44	40101	HUNT_T2	2	3	1	0.3	0.35	0.05	-0.54	-0.6	0	0	0	0	0	0
4/22/2024 10:45	13502	MCMI_T1	4	4	0	0.28	0.45	0.17	0	0	0	0	0	0	0	0
4/22/2024 10:45	53902	HALI_T2	4	6	2	1.95	1.6	-0.35	0	0	0	0	0	0	0	0
4/22/2024 10:45	13501	MCMI_T1	0	0	0	0	0	0	0.07	0.12	0	0	0	0	0	0
4/22/2024 10:45	53903	HALI_T2	7	14	7	0.73	0.72	-0.01	0	0	0	0	0	0	0	0
4/22/2024 10:45	53901	HALI_T2	4	9	5	0.58	0.43	-0.15	-1.53	-1.5	0	0	0	0	0	0
4/22/2024 10:46	13501	MCMI_T1	0	0	0	0	0	0	0.07	0.12	0	0	0	0	0	0
4/22/2024 10:46	53902	HALI_T2	4	6	2	1.95	1.6	-0.35	-0.24	-0.22	0	0	0	0	0	0
4/22/2024 10:46	13502	MCMI_T1	4	4	0	0.28	0.45	0.17	0	0	0	0	0	0	0	0
4/22/2024 10:46	53901	HALI_T2	4	9	5	0.58	0.43	-0.15	-1.53	-1.5	0	0	0	0	0	0
4/22/2024 10:46	53903	HALI_T2	7	14	7	0.73	0.72	-0.01	0	0	0	0	0	0	0	0
4/22/2024 10:48	64904	MILL_T1	0	0	0	0	0	0	0.4	0.45	0	0	0	0	0	0
4/22/2024 10:49	58401	MORO_T1	2	4	2	0.2	0.45	0.25	-0.99	-1.01	1	1	0	600	600	0
4/22/2024 10:49	51204	MTON_T2	2	4	2	0.2	0.28	0.08	0	0	0	0	0	0	0	0
4/22/2024 10:49	51202	MTON_T2	3	4	1	0.77	0.78	0.01	0.24	0.25	0	0	0	0	0	0
4/22/2024 10:49	59003	MIFF_T1	0	4	4	0	0.58	0.58	1.04	0.89	0	0	0	0	0	0
4/22/2024 10:49	59002	MIFF_T1	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
4/22/2024 10:49	59001	MIFF_T1	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
4/22/2024 10:51	67703	WERN_T2	2	2	0	0.4	0.6	0.2	0.68	0.68	0	0	0	0	0	0
4/22/2024 10:51	67701	WERN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/22/2024 10:51	67702	WERN_T2	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:51	58401	MORO_T1	2	4	2	0.2	0.45	0.25	-1.98	-2.02	2	2	0	1200	1200	0
4/22/2024 10:52	20402	ASHF_T2	2	3	1	0.47	0.47	-0.23	0	0	0	0	0	0	0	0
4/22/2024 10:52	20401	ASHF_T2	3	4	1	0.23	0.25	0.02	0	0	0	0	0	0	0	0
4/22/2024 10:52	66502	SMAN_T2	5	5	0	0.4	0.4	0	0.41	0.25	0	0	0	0	0	0
4/22/2024 10:52	67203	TEHI_T1	0	1	1	0	0	0	1.94	2.07	2	2	0	1200	1200	0
4/22/2024 10:52	20403	ASHF_T2	10	23	13	0.6	0.44	-0.16	0.12	0.19	0	0	0	0	0	0
4/22/2024 10:52	66505	SMAN_T2	3	3	0	0.4	0.2	-0.2	0.18	0.03	2	2	0	1100	1100	0
4/22/2024 10:52	66504	SMAN_T2	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
4/22/2024 10:52	66501	SMAN_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
4/22/2024 10:53	58402	MORO_T1	0	0	0	0	0	0	-0.05	-0.06	2	2	0	1500	1500	0
4/22/2024 10:53	58401	MORO_T1	2	4	2	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/22/2024 10:54	67703	WERN_T2	2	2	0	0.4	0.6	0.2	0.68	0.65	0	0	0	0	0	0
4/22/2024 10:54	44301	BEAV_T2	8	20	12	0.38	0.45	0.07	0.09	0.22	2	2	0	1500	1500	0
4/22/2024 10:54	67702	WERN_T2	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
4/22/2024 10:54	67701	WERN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/22/2024 10:55	20401	ASHF_T2	3	4	1	0.23	0.25	0.02	-0.29	-0.36	0	0	0	0	0	0
4/22/2024 10:55	66501	SMAN_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
4/22/2024 10:55	66504	SMAN_T2	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
4/22/2024 10:55	20402	ASHF_T2	2	3	1	0.47	0.47	-0.23	0	0	0	0	0	0	0	0
4/22/2024 10:55	20403	ASHF_T2	10	23	13	0.6	0.44	-0.16	0	0	0	0	0	0	0	0
4/22/2024 10:55	66505	SMAN_T2	3	3	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/22/2024 10:55	66502	SMAN_T2	5	5	0	0.4	0.4	0	0.25	0.34	0	0	0	0	0	0
4/22/2024 10:56	20402	ASHF_T2	2	3	1	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
4/22/2024 10:56	60801	BUCK_T1	1	3	2	0.2	0.13	-0.07	-0.61	-0.62	1	1	0	600	600	0
4/22/2024 10:56	20401	ASHF_T2	3	4	1	0.23	0.25	0.02	-0.29	-0.36	0	0	0	0	0	0
4/22/2024 10:56	11202	ELHE_T2	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
4/22/2024 10:56	20403	ASHF_T2	10	23	13	0.6	0.44	-0.16	0	0	0	0	0	0	0	0
4/22/2024 10:57	44301	BEAV_T2	8	20	12	0.38	0.45	0.07	0.09	0.22	2	2	0	1500	1500	0
4/22/2024 10:58	44505	HAMI_T2	0	4	4	0	0.6	0.6	0	0	0	0	0	0	0	0
4/22/2024 10:58	28403	HART_T2	0	0	0	0	0	0	-0.93	-0.95	1	1	0	900	900	0
4/22/2024 10:58	44502	HAMI_T2	2	6	4	1.3	0.85	-0.45	-0.97	-0.94	0	0	0	0	0	0
4/22/2024 10:58	46203	DANV_T2	10	8	-2	0.35	0.6	0.25	0.17	0.16	0	0	0	0	0	0
4/22/2024 10:59	53902	HALI_T2	4	6	2	1.95	1.6	-0.35	0	0	0	0	0	0	0	0
4/22/2024 10:59	53903	HALI_T2	7	14	7	0.73	0.72	-0.01	0	0	0	0	0	0	0	0
4/22/2024 10:59	46504	LOHA_T1	2	99	97	1.2	0.38	-0.82	0	0	0	0	0	0	0	0
4/22/2024 10:59	26401	INOR_T1	4	4	0	2.5	2.48	-0.02	0.95	0.84	0	0	0	0	0	0
4/22/2024 10:59	46501	LOHA_T1	1	2	1	0.1	0.45	0.35	-0.01	-0.03	1	1	0	1200	1200	0
4/22/2024 10:59	67605	WARW_T1	105	91	-14	0.42	0.59	0.17	-1.09	-1.12	0	0	0	0	0	0
4/22/2024 10:59	26402	INOR_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/22/2024 10:59	67603	WARW_T1	2	4	2	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
4/22/2024 10:59	46506	LOHA_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
4/22/2024 10:59	53901	HALI_T2	4	9	5	0.58	0.43	-0.15	-1.5	-1.51	0	0	0	0	0	0
4/22/2024 11:01	12601	MACA_T1	1	1	0	0.8	1.4	0.6	0	0	0	0	0	0	0	0
4/22/2024 11:01	67605	WARW_T1	74	87	13	0.63	0.63	0	-1.09	-1.12	0	0	0	0	0	0
4/22/2024 11:01	41002	LAUR_T2	1	3	2	2.1	0.87	-1.23	0.04	0	0	0	0	0	0	0
4/22/2024 11:01	60801	BUCK_T1	2	3	1	0.15	0.13	-0.02	-0.61	-0.62	1	1	0	600	600	0
4/22/2024 11:01	67604	WARW_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/22/2024 11:01	12605	MACA_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/22/2024 11:01	67603	WARW_T1	3	3	0	0.77	0.87	0.1	0	0	0	0	0	0	0	0
4/22/2024 11:01	40101	HUNT_T2	2	3	1	0.35	0.27	-0.08	-0.6	-0.7	0	0	0	0	0	0
4/22/2024 11:01	41001	LAUR_T2	2	3	1	0.9	1	0.1	0	0	0	0	0	0	0	0
4/22/2024 11:01	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
4/22/2024 11:01	12606	MACA_T1	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
4/22/2024 11:02	42903	MIDD_T2	0	0	0	0	0	0	0.54	0.39	1	1	0	1200	1200	0
4/22/2024 11:02	42902	MIDD_T2	10	4	-6	0.52	0.8	0.28	0	0	0	0	0	0	0	0
4/22/2024 11:04	46501	LOHA_T1	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
4/22/2024 11:04	12701	MACU_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/22/2024 11:04	13101	NHAM_T2	0	0	0	0	0	0	-1.74	-1.76	1	1	0	600	600	0
4/22/2024 11:04	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
4/22/2024 11:04	50701	SMEC_T1	9	13	4	0.82	0.75	-0.07	0.17	0.13	0	0	0	0	0	0
4/22/2024 11:04	46504	LOHA_T1	13	99	86	0.3	0.38	0.08	0	0	0	0	0	0	0	0
4/22/2024 11:04	46506	LOHA_T1	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/22/2024 11:05	14404	SSLA_T1	6	11	5	1.23	1.01	-0.22	-0.02	0	0	0	0	0	0	0
4/22/2024 11:05	42802	SELI_T1	0	0	0	0	0	0	-0.8	-0.8	1	1	0	900	900	0
4/22/2024 11:05	14401	SSLA_T1	2	6	4	0.35	0.7	0.35	0	0	0	0	0	0	0	0
4/22/2024 11:05	67505	WEWI_T1	2	4	2	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
4/22/2024 11:05	46203	DANV_T2	8	10	2	0.46	0.64	0.18	0.17	0.16	0	0	0	0	0	0
4/22/2024 11:05	14603	SWHI_T1	7	9	2	1.09	0.96	-0.13	0	0	0	0	0	0	0	0
4/22/2024 11:05	14403	SSLA_T1	7	4	-3	0.24	0.73	0.49	0	0	0	0	0	0	0	0
4/22/2024 11:05	14602	SWHI_T1	2	3	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/22/2024 11:05	67501	WEWI_T1	10	11	1	0.71	0.67	-0.04	-1.19	-1.11	1	1	0	600	600	0
4/22/2024 11:05	14402	SSLA_T1	2	3	1	0.3	0.47	0.17	0	0	0	0	0	0	0	0
4/22/2024 11:05	14601	SWHI_T1	9	10	1	0.5	0.33	-0.17	-0.98	-0.96	0	0	0	0	0	0
4/22/2024 11:06	14403	SSLA_T1	7	4	-3	0.24	0.73	0.49	0	0	0	0	0	0	0	0
4/22/2024 11:06	67605	WARW_T1	74	87	13	0.63	0.63	0	-1.09	-1.12	0	0	0	0	0	0
4/22/2024 11:06	14401	SSLA_T1	2	6	4	0.35	0.7	0.35	0	0	0	0	0	0	0	0
4/22/2024 11:06	67501	WEWI_T1	10	11	1	0.71	0.67	-0.04	-1.19	-1.11	1	1	0	600	600	0
4/22/2024 11:06	49803	UNIV_T1	2	1	-1	0.45	0.5	0.05	-1.07	-1.07	0	0	0	0	0	0
4/22/2024 11:06	14402	SSLA_T1	2	3	1	0.3	0.47	0.17	0	0	0	0	0	0	0	0
4/22/2024 11:06	57205	ROSS_T1	2	4	2	1.2	0.98	-0.22	0.12	0.15	0	0	0	0	0	0
4/22/2024 11:06	14404	SSLA_T1	6	11	5	1.23	1.01	-0.22	-0.02	0	0	0	0	0	0	0
4/22/2024 11:06	67604	WARW_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/22/2024 11:06	67505	WEWI_T1	2	4	2	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
4/22/2024 11:06	57203	ROSS_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/22/2024 11:06	67603	WARW_T1	3	3	0	0.77	0.87	0.1	0	0	0	0	0	0	0	0
4/22/2024 11:07	45601	WOOL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 11:07	60801	BUCK_T1	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
4/22/2024 11:07	67502	WEWI_T2	141	6	-135	0.24	0.72	0.48	-1.25	-0.16	1	1	0	900	900	0
4/22/2024 11:07	45602	WOOL_T1	8	12	4	0.55	0.75	0.2	0.48	0.47	0	0	0	0	0	0
4/22/2024 11:07	13704	SCHN_T2	3	3	0	0.3	0.33	0.03	-0.37	-0.37	0	0	0	0	0	0
4/22/2024 11:07	60803	BUCK_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
4/22/2024 11:07	67503	WEWI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 11:07	13701	SCHN_T2	5	6	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/22/2024 11:08	14603	SWHI_T1	7	9	2	1.09	0.96	-0.13	0	0	0	0	0	0	0	0
4/22/2024 11:08	59102	WALK_T2	4	6	2	0.35	0.65	0.3	0	0	0	0	0	0	0	0
4/22/2024 11:08	14601	SWHI_T1	9	10	1	0.5	0.33	-0.17	-0.98	-0.96	0	0	0	0	0	0
4/22/2024 11:08	45601	WOOL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 11:08	49804	UNIV_T1	0	0	0	0	0	0	1.3	1.32	0	0	0	0	0	0
4/22/2024 11:08	54505	ENOL_T2	5	6	1	0.96	0.9	-0.06	0	0	0	0	0	0	0	0
4/22/2024 11:08	59101	WALK_T2	2	4	2	1	0.73	-0.27	2.18	1.94	0	0	0	0	0	0
4/22/2024 11:08	54504	ENOL_T2	1	1	0	0.2	0.4	0.2	-1.02	-1.03	1	1	0	600	600	0
4/22/2024 11:08	45902	AUBU_T1	2	2	0	0.75	0.6	-0.15	-0.53	-0.52	1	1	0	600	600	0
4/22/2024 11:08	14602	SWHI_T1	2	3	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/22/2024 11:08	54502	ENOL_T2	2	1	-1	0.45	0.8	0.35	0	0	0	0	0	0	0	0
4/22/2024 11:08	45602	WOOL_T1	8	12	4	0.55	0.75	0.2	0.48	0.47	0	0	0	0	0	0
4/22/2024 11:08	49803	UNIV_T1	2	1	-1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
4/22/2024 11:08	54503	ENOL_T2	4	6	2	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
4/22/2024 11:08	67505	WEWI_T1	2	4	2	0.65	0.6	-0.05	-0.3	-0.3	1	1	0	900	900	0
4/22/2024 11:08	66703	STRA_T1	1	0	-1	0.2	0	-0.2	-0.21	-0.19	0	0	0	0	0	0
4/22/2024 11:08	66701	STRA_T1	1	1	0	1.8	1.4	-0.4	0	0	0	0	0	0	0	0
4/22/2024 11:08	54501	ENOL_T2	8	8	0	0.98	1.11	0.13	0	0	0	0	0	0	0	0
4/22/2024 11:08	42802	SELI_T1	0	0	0	0	0	0	-0.8	-0.8	1	1	0	900	900	0
4/22/2024 11:08	67501	WEWI_T1	10	11	1	0.71	0.67	-0.04	-1.11	-1.18	1	1	0	600	600	0
4/22/2024 11:09	67501	WEWI_T1	10	11	1	0.71	0.67	-0.04	-1.11	-1.18	1	1	0	600	600	0
4/22/2024 11:09	67502	WEWI_T2	141	6	-135	0.24	0.72	0.48	-0.16	-0.1	1	0	-1	900	0	-900
4/22/2024 11:09	67503	WEWI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 11:09	49803	UNIV_T1	2	1	-1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
4/22/2024 11:09	54504	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/22/2024 11:09	54505	ENOL_T2	5	6	1	0.96	0.9	-0.06	0	0	0	0	0	0	0	0
4/22/2024 11:09	49804	UNIV_T1	0	0	0	0	0	0	1.32	1.33	0	0	0	0	0	0
4/22/2024 11:09	54501	ENOL_T2	8	8	0	0.98	1.11	0.13	-0.54	-0.55	1	1	0	600	600	0
4/22/2024 11:09	54503	ENOL_T2	4	6	2	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
4/22/2024 11:09	54502	ENOL_T2	2	1	-1	0.45	0.8	0.35	0	0	0	0	0	0	0	0
4/22/2024 11:09	67505	WEWI_T1	2	4	2	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
4/22/2024 11:10	67503	WEWI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 11:10	67502	WEWI_T2	141	6	-135	0.24	0.72	0.48	-0.16	-0.1	1	0	-1	900	0	-900
4/22/2024 11:11	10801	CHHI_T1	6	9	3	0.82	0.86	0.04	-0.65	-0.75	1	1	0	900	900	0
4/22/2024 11:11	17401	FOHI_T1	1	2	1	0.6	0.55	-0.05	-1.01	-1.03	0	0	0	0	0	0
4/22/2024 11:11	10805	CHHI_T2	1	3	2	8.4	2.8	-5.6	-0.33	-0.34	1	1	0	600	600	0
4/22/2024 11:11	60801	BUCK_T1	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
4/22/2024 11:11	60803	BUCK_T1	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
4/22/2024 11:12	54502	ENOL_T2	2	1	-1	0.45	0.8	0.35	0	0	0	0	0	0	0	0
4/22/2024 11:12	54503	ENOL_T2	4	6	2	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
4/22/2024 11:12	54505	ENOL_T2	5	6	1	0.96	0.9	-0.06	-1.33	-1.31	1	1	0	600	600	0
4/22/2024 11:12	54501	ENOL_T2	8	8	0	0.98	1.11	0.13	0	0	0	0	0	0	0	0
4/22/2024 11:12	60801	BUCK_T1	2	3	1	0.15	0.13	-0.02	-0.62	-0.55	1	1	0	600	600	0
4/22/2024 11:12	60101	COCA_T1	2	2	0	0.25	0.65	0.4	0.31	0.31	0	0	0	0	0	0
4/22/2024 11:12	44301	BEAV_T2	19	14	-5	0.41	0.54	0.13	0.22	-0.1	2	2	0	1500	1500	0
4/22/2024 11:12	67605	WARW_T1	74	87	13	0.63	0.63	0	0	0	0	0	0	0	0	0
4/22/2024 11:12	54504	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/22/2024 11:12	67604	WARW_T1	0	3	3	0	0.17	0.17	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 11:12	67603	WARW_T1	3	3	0	0.77	0.87	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/22/2024 11:13	46602	LACR_T1	3	6	3	0.8	0.75	-0.05	-1.11	-1.11	0	0	0	0	0	0
4/22/2024 11:13	45902	AUBU_T1	2	2	0	0.75	0.6	-0.15	-0.53	-0.52	1	1	0	600	600	0
4/22/2024 11:13	44505	HAMI_T2	2	5	3	0.5	0.58	0.08	0	0	0	0	0	0	0	0
4/22/2024 11:13	44502	HAMI_T2	4	6	2	1.03	0.87	-0.16	0	0	0	0	0	0	0	0
4/22/2024 11:13	44504	HAMI_T2	0	0	0	0	0	0	-1.13	-1.02	0	0	0	0	0	0
4/22/2024 11:14	66505	SMAN_T2	3	4	1	0.2	0.53	0.33	0	0	0	0	0	0	0	0
4/22/2024 11:14	66501	SMAN_T2	2	2	0	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
4/22/2024 11:14	66504	SMAN_T2	3	3	0	0.23	0.77	0.54	0	0	0	0	0	0	0	0
4/22/2024 11:14	66502	SMAN_T2	5	12	7	0.38	0.38	0	0	0	0	0	0	0	0	0
4/22/2024 11:14	66503	SMAN_T2	0	1	1	0	0.1	0.1	0.4	0.38	0	0	0	0	0	0
4/22/2024 11:15	53501	EVIL_T2	6	9	3	0.85	0.72	-0.13	0	0	0	0	0	0	0	0
4/22/2024 11:15	20601	GRWO_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
4/22/2024 11:15	53502	EVIL_T2	0	0	0	0	0	0	0	-0.03	2	2	0	1200	1200	0
4/22/2024 11:15	47101	MARL_T1	0	1	1	0	0.3	0.3	-0.22	0.04	0	0	0	0	0	0
4/22/2024 11:15	20603	GRWO_T2	3	5	2	0.5	0.52	0.02	0	0	0	0	0	0	0	0
4/22/2024 11:16	13502	MCMI_T1	4	11	7	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
4/22/2024 11:16	13501	MCMI_T1	0	1	1	0	0.6	0.6	0.06	0.06	0	0	0	0	0	0
4/22/2024 11:17	42002	MNVL_T2	2	2	0	2.45	2.55	0.1	-0.15	-0.17	0	0	0	0	0	0
4/22/2024 11:17	60801	BUCK_T1	3	1	-2	0.13	0.1	-0.03	-0.62	-0.55	1	1	0	600	600	0
4/22/2024 11:17	42001	MNVL_T2	24	9	-15	0.34	0.67	0.33	0	0	0	0	0	0	0	0
4/22/2024 11:18	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.77	0	0	0	0	0	0
4/22/2024 11:18	47403	PENS_T1	4	4	0	0.53	0.55	0.02	0	0	0	0	0	0	0	0
4/22/2024 11:18	47402	PENS_T1	3	3	0	0.77	0.87	0.1	0	0	0	0	0	0	0	0
4/22/2024 11:18	65205	PRIN_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/22/2024 11:18	47401	PENS_T1	7	31	24	0.8	0.39	-0.41	1.2	1.25	0	0	0	0	0	0
4/22/2024 11:18	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 11:19	47402	PENS_T1	3	3	0	0.77	0.87	0.1	0	0	0	0	0	0	0	0
4/22/2024 11:19	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.77	0	0	0	0	0	0
4/22/2024 11:19	47401	PENS_T1	7	31	24	0.8	0.39	-0.41	2.39	2.49	0	0	0	0	0	0
4/22/2024 11:19	47403	PENS_T1	4	4	0	0.53	0.55	0.02	0	0	0	0	0	0	0	0
4/22/2024 11:20	67803	WLAN_T1	6	10	4	0.28	0.35	0.07	-0.89	-0.88	0	0	0	0	0	0
4/22/2024 11:20	16504	STRO_T1	0	1	1	0	0.1	0.1	0.18	0.18	1	1	0	1200	1200	0
4/22/2024 11:20	67804	WLAN_T1	6	12	6	0.48	0.37	-0.11	0	0	0	0	0	0	0	0
4/22/2024 11:21	26002	WDAM_T1	3	6	3	0.33	0.57	0.24	0	0	0	0	0	0	0	0
4/22/2024 11:21	67502	WEWI_T2	6	6	0	0.72	0.68	-0.04	-0.16	-0.1	1	0	-1	900	0	-900
4/22/2024 11:21	47403	PENS_T1	4	4	0	0.53	0.55	0.02	0	0	0	0	0	0	0	0
4/22/2024 11:21	47401	PENS_T1	7	31	24	0.8	0.39	-0.41	1.2	1.25	0	0	0	0	0	0
4/22/2024 11:21	26001	WDAM_T1	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
4/22/2024 11:21	47402	PENS_T1	3	3	0	0.77	0.87	0.1	0	0	0	0	0	0	0	0
4/22/2024 11:21	42801	SELI_T1	0	0	0	0	0	0	-0.8	-0.8	1	1	0	900	900	0
4/22/2024 11:22	67804	WLAN_T1	6	12	6	0.48	0.37	-0.11	0	0	0	0	0	0	0	0
4/22/2024 11:22	15103	UPHA_T2	3	5	2	0.7	0.74	0.04	0.37	0.35	0	0	0	0	0	0
4/22/2024 11:22	67803	WLAN_T1	6	10	4	0.28	0.35	0.07	-0.89	-0.88	0	0	0	0	0	0
4/22/2024 11:23	20402	ASHF_T2	3	5	2	0.47	0.54	0.07	0	0	0	0	0	0	0	0
4/22/2024 11:23	20401	ASHF_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
4/22/2024 11:23	42802	SELI_T1	0	0	0	0	0	0	-0.8	-0.8	1	1	0	900	900	0
4/22/2024 11:23	20403	ASHF_T2	10	19	9	0.71	0.52	-0.19	1.35	1.25	0	0	0	0	0	0
4/22/2024 11:24	41601	CLEV_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
4/22/2024 11:24	41602	CLEV_T1	2	3	1	0.95	0.93	-0.02	0	0	0	0	0	0	0	0
4/22/2024 11:24	66703	STRA_T1	0	2	2	0	0.2	0.2	-0.19	-0.2	0	0	0	0	0	0
4/22/2024 11:24	66701	STRA_T1	1	2	1	1.4	0.35	-1.05	0	0	0	0	0	0	0	0
4/22/2024 11:25	61801	EELI_T2	7	5	-2	0.33	0.44	0.11	-0.64	-0.56	0	0	0	0	0	0
4/22/2024 11:25	41602	CLEV_T1	2	3	1	0.95	0.93	-0.02	0	0	0	0	0	0	0	0
4/22/2024 11:25	61803	EELI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/22/2024 11:25	62607	ENGL_T1	3	3	0	0.27	0.37	0.1	-1.13	-1.16	1	1	0	300	300	0
4/22/2024 11:25	26001	WDAM_T1	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
4/22/2024 11:25	62605	ENGL_T1	3	7	4	0.3	0.33	0.03	0	0	0	0	0	0	0	0
4/22/2024 11:25	24702	FLND_T2	2	4	2	0.9	1.13	0.23	0.23	0.25	1	1	0	1200	1200	0
4/22/2024 11:25	26002	WDAM_T1	3	6	3	0.33	0.57	0.24	0	0	0	0	0	0	0	0
4/22/2024 11:25	41601	CLEV_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
4/22/2024 11:25	62602	ENGL_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/22/2024 11:27	54504	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/22/2024 11:27	22101	EDEL_T2	2	2	0	0.85	0.9	0.05	0.38	0.37	1	1	0	1200	1200	0
4/22/2024 11:27	22103	EDEL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/22/2024 11:27	54505	ENOL_T2	6	5	-1	0.9	0.88	-0.02	-1.31	-1.32	1	1	0	600	600	0
4/22/2024 11:27	54503	ENOL_T2	5	4	-1	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
4/22/2024 11:27	60801	BUCK_T1	3	1	-2	0.13	0.1	-0.03	-0.55	-0.58	1	1	0	600	600	0
4/22/2024 11:27	54501	ENOL_T2	8	8	0	1.11	0.94	-0.17	0	0	0	0	0	0	0	0
4/22/2024 11:27	54502	ENOL_T2	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
4/22/2024 11:28	54505	ENOL_T2	6	5	-1	0.9	0.88	-0.02	-1.31	-1.32	1	1	0	600	600	0
4/22/2024 11:28	54501	ENOL_T2	8	8	0	1.11	0.94	-0.17	0	0	0	0	0	0	0	0
4/22/2024 11:28	54504	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/22/2024 11:28	54502	ENOL_T2	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
4/22/2024 11:28	54503	ENOL_T2	5	4	-1	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
4/22/2024 11:28	11205	ELHE_T1	0	0	0	0	0	0	-0.82	-0.7	1	1	0	1200	1200	0
4/22/2024 11:28	41601	CLEV_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
4/22/2024 11:28	13503	MCMI_T2	1	5	4	1.3	0.44	-0.86	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 11:28	41602	CLEV_T1	2	3	1	0.95	0.93	-0.02	0	0	0	0	0	0	0	0
4/22/2024 11:28	56603	HAMP_T1	0	0	0	0	0	0	-1.26	-1.24	0	0	0	0	0	0
4/22/2024 11:29	61803	EELI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/22/2024 11:29	61801	EELI_T2	7	5	-2	0.33	0.44	0.11	-0.32	-0.28	0	0	0	0	0	0
4/22/2024 11:29	12006	HATF_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
4/22/2024 11:29	12001	HATF_T1	0	0	0	0	0	0	-1.08	-1.27	4	4	0	3600	3600	0
4/22/2024 11:29	12003	HATF_T1	2	3	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/22/2024 11:30	59301	MCAL_T1	8	8	0	0.59	0.66	0.07	0	0	0	0	0	0	0	0
4/22/2024 11:30	46504	LOHA_T1	1	13	12	0.5	0.31	-0.19	0	0	0	0	0	0	0	0
4/22/2024 11:30	46506	LOHA_T1	3	4	1	0.27	0.3	0.03	-0.4	-0.39	0	0	0	0	0	0
4/22/2024 11:30	46501	LOHA_T1	1	3	2	0.3	0.63	0.33	0	0	0	0	0	0	0	0
4/22/2024 11:30	59003	MIFF_T1	4	3	-1	0.5	0.4	-0.1	0.07	-0.06	0	0	0	0	0	0
4/22/2024 11:30	59302	MCAL_T1	3	3	0	0.4	0.37	-0.03	-0.14	-0.29	1	1	0	600	600	0
4/22/2024 11:30	59002	MIFF_T1	6	1	-5	0.32	0.1	-0.22	0	0	0	0	0	0	0	0
4/22/2024 11:30	59001	MIFF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 11:31	45801	HEGI_T1	0	0	0	0	0	0	-0.02	-0.04	1	1	0	900	900	0
4/22/2024 11:32	65502	MOJO_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/22/2024 11:32	65503	MOJO_T2	28	34	6	0.52	0.49	-0.03	-1.27	-1.29	1	1	0	900	900	0
4/22/2024 11:33	51004	NHAR_T1	16	0	0	0.89	1.06	0.17	-0.39	-0.39	0	0	0	0	0	0
4/22/2024 11:33	51006	NHAR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/22/2024 11:33	12801	MICK_T1	0	0	0	0	0	0	0.63	0.56	0	0	0	0	0	0
4/22/2024 11:33	12807	MICK_T1	2	1	-1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
4/22/2024 11:33	65502	MOJO_T2	2	0	-2	0.2	0	-0.2	-0.07	0.27	0	0	0	0	0	0
4/22/2024 11:33	12803	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 11:33	65503	MOJO_T2	28	34	6	0.52	0.49	-0.03	0	0	0	0	0	0	0	0
4/22/2024 11:33	51003	NHAR_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/22/2024 11:33	60801	BUCK_T1	0	5	5	0	0.34	0.34	-0.55	-0.58	1	1	0	600	600	0
4/22/2024 11:33	51002	NHAR_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
4/22/2024 11:34	59002	MIFF_T1	6	1	-5	0.32	0.1	-0.22	0	0	0	0	0	0	0	0
4/22/2024 11:34	59001	MIFF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 11:34	58402	MORO_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/22/2024 11:34	65904	SAKR_T2	3	4	1	0.33	0.45	0.12	0	0	0	0	0	0	0	0
4/22/2024 11:34	59003	MIFF_T1	4	3	-1	0.5	0.4	-0.1	0.07	-0.06	0	0	0	0	0	0
4/22/2024 11:34	65901	SAKR_T2	2	3	1	5.45	3.8	-1.65	-1.31	-1.3	1	1	0	900	900	0
4/22/2024 11:34	58401	MORO_T1	4	4	0	0.4	0.35	-0.05	-1.01	-0.99	1	1	0	600	600	0
4/22/2024 11:34	58302	NOTT_T1	2	2	0	0.15	0.45	0.3	-0.35	-0.39	1	1	0	1200	1200	0
4/22/2024 11:35	54203	PENN_T1	19	19	0	1.38	1.32	-0.06	0.09	0.1	0	0	0	0	0	0
4/22/2024 11:35	54201	PENN_T1	11	12	1	0.76	0.75	-0.01	0	0	0	0	0	0	0	0
4/22/2024 11:35	14101	TRUM_T2	1	1	0	0.1	0.3	0.2	0.17	0.18	0	0	0	0	0	0
4/22/2024 11:35	14102	TRUM_T2	2	3	1	0.85	0.83	-0.02	0	0	0	0	0	0	0	0
4/22/2024 11:35	14103	TRUM_T2	3	3	0	0.8	1.17	0.37	0	0	0	0	0	0	0	0
4/22/2024 11:36	14705	TREX_T1	0	0	0	0	0	0	0.27	0.34	0	0	0	0	0	0
4/22/2024 11:36	58401	MORO_T1	4	4	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/22/2024 11:36	24603	VARD_T2	20	21	1	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
4/22/2024 11:36	24602	VARD_T2	34	31	-3	0.21	0.24	0.03	0.03	-0.06	0	0	0	0	0	0
4/22/2024 11:36	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 11:36	58402	MORO_T1	1	2	1	0.2	0.35	0.15	-0.16	-0.14	2	2	0	1500	1500	0
4/22/2024 11:37	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 11:37	42802	SELI_T1	0	0	0	0	0	0	-0.8	-0.86	1	1	0	900	900	0
4/22/2024 11:38	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 11:38	64101	REFR_T1	0	1	1	0	0.1	0.1	-0.55	-0.54	0	0	0	0	0	0
4/22/2024 11:38	15103	UPHA_T2	5	4	-1	0.6	0.93	0.33	0.35	0.37	0	0	0	0	0	0
4/22/2024 11:39	23902	EFMO_T2	2	3	1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
4/22/2024 11:39	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 11:39	23901	EFMO_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/22/2024 11:40	43802	SWIL_T1	1	2	1	0.5	0.6	0.1	-0.3	-0.3	1	1	0	600	600	0
4/22/2024 11:40	43801	SWIL_T1	1	2	1	5.6	2.8	-2.8	0	0	0	0	0	0	0	0
4/22/2024 11:40	64101	REFR_T1	0	1	1	0	0.1	0.1	-0.55	-0.54	0	0	0	0	0	0
4/22/2024 11:40	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 11:41	55105	WERT_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/22/2024 11:42	16101	BING_T2	2	2	0	0.35	0.8	0.45	0	0	0	0	0	0	0	0
4/22/2024 11:42	41305	FISH_T1	9	0	-9	0.16	0	-0.16	0	0	0	0	0	0	0	0
4/22/2024 11:42	41301	FISH_T1	232	72	-160	0.26	0.3	0.04	0	-0.05	0	0	0	0	0	0
4/22/2024 11:42	16103	BING_T2	1	1	0	1.3	2	0.7	0	0	0	0	0	0	0	0
4/22/2024 11:42	16102	BING_T2	4	6	2	0.45	0.93	0.48	-0.64	-0.67	1	1	0	1200	1200	0
4/22/2024 11:43	41205	KENM_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
4/22/2024 11:43	41204	KENM_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 11:43	41304	FISH_T2	1	1	0	0	0	0	0	0.47	0	0	0	0	0	0
4/22/2024 11:43	60801	BUCK_T1	0	5	5	0	0.34	0.34	-0.58	-0.66	1	1	0	600	600	0
4/22/2024 11:43	41202	KENM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 11:43	41302	FISH_T2	0	10	10	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 11:44	41305	FISH_T1	9	0	-9	0.16	0	-0.16	0	0	0	0	0	0	0	0
4/22/2024 11:44	41304	FISH_T2	1	1	0	0	0	0	0	0.47	0	0	0	0	0	0
4/22/2024 11:44	41301	FISH_T1	232	72	-160	0.26	0.3	0.04	0	-0.05	0	0	0	0	0	0
4/22/2024 11:44	41302	FISH_T2	0	10	10	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 11:45	41302	FISH_T2	10	7	-3	0.65	0	-0.65	0	0	0	0	0	0	0	0
4/22/2024 11:45	46803	HEPB_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
4/22/2024 11:45	41301	FISH_T1	45	88	43	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
4/22/2024 11:45	41303	FISH_T1	0	0	0	0	0	0	0	-0.17	0	0	0	0	0	0
4/22/2024 11:45	46801	HEPB_T2	2	2	0	0.8	0.85	0.05	0.58	0.6	0	0	0	0	0	0
4/22/2024 11:45	45702	LIND_T2	18	28	10	0.32	0.24	-0.08	0	0	0	0	0	0	0	0
4/22/2024 11:45	45902	AUBU_T1	1	1	0	0.8	1.1	0.3	-0.52	-0.6	1	1	0	600	600	0
4/22/2024 11:45	45701	LIND_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
4/22/2024 11:45	41304	FISH_T2	1	1	0	0	0	0	0	0.23	0	0	0	0	0	0
4/22/2024 11:46	41301	FISH_T1	45	88	43	0.35	0.28	-0.07	0	-0.05	0	0	0	0	0	0
4/22/2024 11:47	46803	HEPB_T2	2	2	0	0.55	0.45	-0.1	0.24	0.22	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/22/2024 11:47	46801	HEPB_T2	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
4/22/2024 11:48	45702	LIND_T2	18	28	10	0.32	0.24	-0.08	-0.5	-0.54	0	0	0	0	0	0
4/22/2024 11:48	60801	BUCK_T1	1	5	4	0.1	0.34	0.24	-0.58	-0.66	1	1	0	600	600	0
4/22/2024 11:48	13302	ORVI_T2	3	3	0	0.6	1.07	0.47	1.35	1.42	0	0	0	0	0	0
4/22/2024 11:49	13503	MCMI_T2	4	9	5	0.45	0.38	-0.07	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 11:50	58001	WCAR_T1	4	4	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/22/2024 11:50	10707	CATA_T2	3	2	-1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/22/2024 11:50	10701	CATA_T2	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/22/2024 11:50	10705	CATA_T2	0	1	1	0	0.5	0.5	0.02	0.01	0	0	0	0	0	0
4/22/2024 11:50	45902	AUBU_T1	1	1	0	0.8	1.1	0.3	-0.52	-0.6	1	1	0	600	600	0
4/22/2024 11:50	58003	WCAR_T1	2	2	0	0.4	0.55	0.15	0.04	0.08	1	1	0	600	600	0
4/22/2024 11:50	10702	CATA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/22/2024 11:50	10704	CATA_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/22/2024 11:51	13805	SALI_T1	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
4/22/2024 11:51	13807	SALI_T1	4	4	0	1.35	1.45	0.1	0	0	0	0	0	0	0	0
4/22/2024 11:51	13704	SCHN_T2	5	6	1	0.32	0.3	-0.02	-0.37	-0.36	0	0	0	0	0	0
4/22/2024 11:51	13801	SALI_T1	0	0	0	0	0	0	0.72	0.75	0	0	0	0	0	0
4/22/2024 11:51	13701	SCHN_T2	9	11	2	0.38	0.45	0.07	0	0	0	0	0	0	0	0
4/22/2024 11:53	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 11:53	67401	WAKE_T2	4	6	2	0.35	0.4	0.05	0	0	0	0	0	0	0	0
4/22/2024 11:53	67402	WAKE_T2	2	2	0	0.45	0.65	0.2	0.37	0.35	1	1	0	600	600	0
4/22/2024 11:53	64101	REFR_T1	0	1	1	0	0.1	0.1	-0.54	-0.64	0	0	0	0	0	0
4/22/2024 11:54	60101	COCA_T1	2	5	3	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
4/22/2024 11:54	58002	WCAR_T2	8	12	4	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
4/22/2024 11:54	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 11:54	61302	EARL_T1	1	3	2	0.6	0.6	0	0.84	0.29	2	2	0	1800	1800	0
4/22/2024 11:54	58006	WCAR_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
4/22/2024 11:54	60102	COCA_T1	0	0	0	0	0	0	0.1	0.05	2	2	0	1200	1200	0
4/22/2024 11:54	61304	EARL_T1	1	3	2	0.5	0.53	0.03	0	0	0	0	0	0	0	0
4/22/2024 11:54	61303	EARL_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/22/2024 11:55	61304	EARL_T1	1	3	2	0.5	0.53	0.03	-0.79	-0.83	1	1	0	600	600	0
4/22/2024 11:55	61302	EARL_T1	1	3	2	0.6	0.6	0	0	0	0	0	0	0	0	0
4/22/2024 11:55	45902	AUBU_T1	1	1	0	0.8	1.1	0.3	-0.6	-0.6	1	1	0	600	600	0
4/22/2024 11:55	61303	EARL_T1	0	3	3	0	0.13	0.13	0.65	0.74	0	0	0	0	0	0
4/22/2024 11:56	16102	BING_T2	6	7	1	0.68	0.91	0.23	-0.67	-0.76	1	1	0	1200	1200	0
4/22/2024 11:56	61304	EARL_T1	1	3	2	0.5	0.53	0.03	0	0	0	0	0	0	0	0
4/22/2024 11:56	61303	EARL_T1	0	3	3	0	0.13	0.13	0.32	0.37	0	0	0	0	0	0
4/22/2024 11:56	16103	BING_T2	1	2	1	1.7	1.1	-0.6	0	0	0	0	0	0	0	0
4/22/2024 11:56	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 11:56	16101	BING_T2	2	2	0	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
4/22/2024 11:56	61302	EARL_T1	1	3	2	0.6	0.6	0	0	0	0	0	0	0	0	0
4/22/2024 11:57	53902	HALI_T2	5	6	1	1.7	1.53	-0.17	0	0	0	0	0	0	0	0
4/22/2024 11:57	13701	SCHN_T2	9	11	2	0.38	0.45	0.07	0	0	0	0	0	0	0	0
4/22/2024 11:57	13704	SCHN_T2	5	6	1	0.32	0.3	-0.02	-0.36	-0.37	0	0	0	0	0	0
4/22/2024 11:57	53901	HALI_T2	1	2	1	1	0.5	-0.5	-1.06	-1.06	0	0	0	0	0	0
4/22/2024 11:57	46401	FLEM_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 11:57	53903	HALI_T2	11	11	0	0.85	0.85	0	0	0	0	0	0	0	0	0
4/22/2024 11:57	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 11:57	46402	FLEM_T2	21	21	0	0.16	0.11	-0.05	0.71	0.53	0	0	0	0	0	0
4/22/2024 11:59	60801	BUCK_T1	1	5	4	0.1	0.34	0.24	-0.66	-0.17	1	0	-1	600	0	-600
4/22/2024 12:00	61304	EARL_T1	1	5	4	0.6	0.44	-0.16	0	0	0	0	0	0	0	0
4/22/2024 12:00	45801	HEGI_T1	0	0	0	0	0	0	-0.08	-0.07	1	1	0	900	900	0
4/22/2024 12:00	56603	HAMP_T1	0	0	0	0	0	0	-1.24	-1.18	0	0	0	0	0	0
4/22/2024 12:00	45902	AUBU_T1	1	1	0	0.9	1.1	0.2	-0.6	-0.6	1	1	0	600	600	0
4/22/2024 12:00	57303	MOAL_T2	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
4/22/2024 12:00	57304	MOAL_T2	58	73	15	0.34	0.5	0.16	-0.62	-0.67	0	0	0	0	0	0
4/22/2024 12:00	61302	EARL_T1	1	3	2	1.2	0.73	-0.47	0	0	0	0	0	0	0	0
4/22/2024 12:00	61303	EARL_T1	0	3	3	0	0.13	0.13	0.32	0.37	0	0	0	0	0	0
4/22/2024 12:00	57306	MOAL_T2	4	4	0	0.65	0.68	0.03	-3.25	-3.25	1	1	0	1200	1200	0
4/22/2024 12:01	57301	MOAL_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
4/22/2024 12:01	42902	MIDD_T2	4	8	4	0.73	0.56	-0.17	-0.86	-0.99	1	1	0	600	600	0
4/22/2024 12:01	57304	MOAL_T2	58	73	15	0.34	0.5	0.16	0	0	0	0	0	0	0	0
4/22/2024 12:01	42903	MIDD_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
4/22/2024 12:01	45702	LIND_T2	28	3	-25	0.24	0.9	0.66	0	0	0	0	0	0	0	0
4/22/2024 12:01	45701	LIND_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
4/22/2024 12:01	57303	MOAL_T2	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
4/22/2024 12:01	57306	MOAL_T2	4	4	0	0.65	0.68	0.03	0	0	0	0	0	0	0	0
4/22/2024 12:02	13701	SCHN_T2	9	12	3	0.42	0.54	0.12	0.02	0	1	1	0	600	600	0
4/22/2024 12:02	64902	MILL_T2	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
4/22/2024 12:02	13704	SCHN_T2	6	7	1	0.28	0.3	0.02	0	0	0	0	0	0	0	0
4/22/2024 12:02	64903	MILL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/22/2024 12:03	65604	QVIL_T2	0	0	0	0	0	0	0.43	0.5	0	0	0	0	0	0
4/22/2024 12:03	64903	MILL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/22/2024 12:03	44201	POIN_T1	3	1	-2	0.37	0.2	-0.17	-1.48	-2.18	2	2	0	2100	2100	0
4/22/2024 12:03	45702	LIND_T2	28	3	-25	0.24	0.9	0.66	-0.54	-0.56	0	0	0	0	0	0
4/22/2024 12:03	65601	QVIL_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/22/2024 12:03	64902	MILL_T2	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
4/22/2024 12:04	60801	BUCK_T1	5	0	-5	0.34	0	-0.34	-0.66	-0.17	1	0	-1	600	0	-600
4/22/2024 12:04	13303	ORVI_T1	1	1	0	0.1	0.1	0	0.95	0.98	0	0	0	0	0	0
4/22/2024 12:04	45702	LIND_T2	28	3	-25	0.24	0.9	0.66	-0.54	-0.56	0	0	0	0	0	0
4/22/2024 12:05	57306	MOAL_T2	4	4	0	0.65	0.68	0.03	-6.49	-6.5	2	2	0	2400	2400	0
4/22/2024 12:05	44203	POIN_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/22/2024 12:05	57303	MOAL_T2	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
4/22/2024 12:05	44202	POIN_T2	0	0	0	0	0	0	-0.55	-0.56	1	1	0	1200	1200	0
4/22/2024 12:05	27605	PIRI_T2	0	0	0	0	0	0	-0.53	-0.6	1	1	0	900	900	0
4/22/2024 12:05	57304	MOAL_T2	58	73	15	0.34	0.5	0.16	-0.62	-0.67	0	0	0	0	0	0
4/22/2024 12:06	15104	UPHA_T2	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
4/22/2024 12:06	50701	SMEC_T1	15	16	1	0.89	0.89	0	0.17	0.21	0	0	0	0	0	0
4/22/2024 12:06	15103	UPHA_T2	4	4	0	0.78	0.88	0.1	0	0	0	0	0	0	0	0
4/22/2024 12:06	44201	POIN_T1	3	1	-2	0.37	0.2	-0.17	-2.96	-4.35	4	4	0	4200	4200	0
4/22/2024 12:07	49803	UNIV_T1	2	2	0	0.7	1.05	0.35	0	0	0	0	0	0	0	0
4/22/2024 12:07	65601	QVIL_T2	2	2	0	0.2	0.15	-0.05	-1.17	-1.05	1	1	0	900	900	0
4/22/2024 12:07	44201	POIN_T1	3	1	-2	0.37	0.2	-0.17	-1.48	-2.18	2	2	0	2100	2100	0
4/22/2024 12:07	49804	UNIV_T1	0	0	0	0	0	0	1.3	1.27	0	0	0	0	0	0
4/22/2024 12:08	61103	BERK_T5	25	10	-15	0.3	0.26	-0.04	0.03	0.05	0	0	0	0	0	0
4/22/2024 12:08	61102	BERK_T5	6	5	-1	0.27	0.3	0.03	0	0	0	0	0	0	0	0
4/22/2024 12:08	61101	BERK_T5	7	6	-1	0.47	0.35	-0.12	0	0	0	0	0	0	0	0
4/22/2024 12:09	61102	BERK_T5	6	5	-1	0.27	0.3	0.03	1.3	1.35	2	2	0	600	600	0
4/22/2024 12:09	61101	BERK_T5	7	6	-1	0.47	0.35	-0.12	0	0	0	0	0	0	0	0
4/22/2024 12:09	61103	BERK_T5	25	10	-15	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
4/22/2024 12:10	51108	CARL_T1	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
4/22/2024 12:10	43304	WATS_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
4/22/2024 12:10	23902	EFMO_T2	2	4	2	0.65	0.27	-0.38	0	0	0	0	0	0	0	0
4/22/2024 12:10	51102	CARL_T1	6	45	39	0.52	0.23	-0.29	0	0	0	0	0	0	0	0
4/22/2024 12:10	43301	WATS_T2	3	3	0	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
4/22/2024 12:10	23901	EFMO_T2	2	2	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/22/2024 12:10	51101	CARL_T1	3	3	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/22/2024 12:10	51109	CARL_T1	1	1	0	0.5	0.8	0.3	0.25	0.24	0	0	0	0	0	0
4/22/2024 12:10	43302	WATS_T2	4	3	-1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
4/22/2024 12:11	45902	AUBU_T1	1	1	0	0.9	1.1	0.2	-0.6	-0.61	1	1	0	600	600	0
4/22/2024 12:12	62602	ENGL_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/22/2024 12:12	62607	ENGL_T1	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
4/22/2024 12:12	62606	ENGL_T1	0	0	0	0	0	0	-0.61	-0.58	1	1	0	900	900	0
4/22/2024 12:12	62605	ENGL_T1	6	5	-1	0.33	0.38	0.05	0	0	0	0	0	0	0	0
4/22/2024 12:13	61103	BERK_T5	25	10	-15	0.3	0.26	-0.04	0.03	0.05	0	0	0	0	0	0
4/22/2024 12:13	10903	COOP_T2	1	1	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
4/22/2024 12:13	10901	COOP_T2	0	0	0	0	0	0	1.09	1.1	0	0	0	0	0	0
4/22/2024 12:13	61101	BERK_T5	7	6	-1	0.47	0.35	-0.12	0	0	0	0	0	0	0	0
4/22/2024 12:13	61102	BERK_T5	6	5	-1	0.27	0.3	0.03	0	0	0	0	0	0	0	0
4/22/2024 12:14	60101	COCA_T1	5	6	1	0.48	0.53	0.05	0.26	0.26	0	0	0	0	0	0
4/22/2024 12:15	61102	BERK_T5	3	5	2	0.2	0.28	0.08	0	0	0	0	0	0	0	0
4/22/2024 12:15	61101	BERK_T5	6	3	-3	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
4/22/2024 12:15	60801	BUCK_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
4/22/2024 12:15	61103	BERK_T5	10	5	-5	0.26	0.24	-0.02	0.03	0.05	0	0	0	0	0	0
4/22/2024 12:16	56603	HAMP_T1	0	0	0	0	0	0	-1.18	-1.18	0	0	0	0	0	0
4/22/2024 12:16	45902	AUBU_T1	1	1	0	1.1	1.1	0	-0.6	-0.61	1	1	0	600	600	0
4/22/2024 12:16	57304	MOAL_T2	65	72	7	0.47	0.51	0.04	0	0	0	0	0	0	0	0
4/22/2024 12:16	57303	MOAL_T2	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
4/22/2024 12:16	57306	MOAL_T2	4	4	0	0.6	0.65	0.05	-3.25	-3.24	1	1	0	1200	1200	0
4/22/2024 12:18	64303	LINC_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
4/22/2024 12:18	13606	RICH_T2	2	2	0	3.7	3.95	0.25	1.18	1.3	0	0	0	0	0	0
4/22/2024 12:18	64305	LINC_T1	1	1	0	0.1	0.5	0.4	-0.05	-0.22	0	0	0	0	0	0
4/22/2024 12:18	13601	RICH_T2	2	1	-1	0.45	0.8	0.35	0	0	0	0	0	0	0	0
4/22/2024 12:20	44601	SALE_T2	0	0	0	0	0	0	0.52	0.55	1	1	0	600	600	0
4/22/2024 12:20	60801	BUCK_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
4/22/2024 12:20	64303	LINC_T1	1	1	0	0.8	0.4	-0.4	-0.22	-0.23	0	0	0	0	0	0
4/22/2024 12:20	13302	ORVI_T2	3	3	0	1.07	1.2	0.13	1.34	1.4	0	0	0	0	0	0
4/22/2024 12:20	14502	SCHO_T1	1	2	1	1.5	1	-0.5	0.23	0.23	0	0	0	0	0	0
4/22/2024 12:20	64305	LINC_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/22/2024 12:21	45902	AUBU_T1	1	1	0	1.1	1.1	0	-0.6	-0.61	1	1	0	600	600	0
4/22/2024 12:22	20402	ASHF_T2	0	4	4	0.45	0.45	0	0	0	0	0	0	0	0	0
4/22/2024 12:22	20401	ASHF_T2	2	5	3	0.4	0.34	-0.06	0	0	0	0	0	0	0	0
4/22/2024 12:22	20403	ASHF_T2	9	8	-1	0.37	0.56	0.19	1.28	1.28	0	0	0	0	0	0
4/22/2024 12:22	51304	WIND_T2	1	2	1	0.3	0.3	0	-0.11	-0.15	0	0	0	0	0	0
4/22/2024 12:22	51306	WIND_T2	2	4	2	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
4/22/2024 12:22	51302	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 12:23	46004	BERW_T2	4	5	1	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
4/22/2024 12:23	66701	STRA_T1	2	3	1	0.85	0.77	-0.08	0.51	0.57	0	0	0	0	0	0
4/22/2024 12:23	24104	EHAZ_T1	12	4	-8	0.28	0.35	0.07	-0.95	-0.93	1	1	0	1200	1200	0
4/22/2024 12:23	46002	BERW_T2	1	1	0	0.3	0.4	0.1	-0.7	-0.69	1	1	0	900	900	0
4/22/2024 12:23	66703	STRA_T1	5	4	-1	0.48	0.28	-0.2	0	0	0	0	0	0	0	0
4/22/2024 12:23	13805	SALI_T1	4	0	-4	0.25	0	-0.25	0	0	0	0	0	0	0	0
4/22/2024 12:23	20401	ASHF_T2	2	5	3	0.4	0.34	-0.06	0	0	0	0	0	0	0	0
4/22/2024 12:23	13807	SALI_T1	4	4	0	1.45	1.33	-0.12	0.12	0.12	0	0	0	0	0	0
4/22/2024 12:23	20403	ASHF_T2	9	8	-1	0.37	0.56	0.19	1.28	1.45	0	0	0	0	0	0
4/22/2024 12:23	44601	SALE_T2	0	0	0	0	0	0	0.52	0.55	1	1	0	600	600	0
4/22/2024 12:23	20402	ASHF_T2	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
4/22/2024 12:23	45402	WBLO_T2	3	4	1	0.77	0.73	-0.04	-0.81	-0.84	0	0	0	0	0	0
4/22/2024 12:23	24105	EHAZ_T1	4	4	0	6.6	6.68	0.08	0	0	0	0	0	0	0	0
4/22/2024 12:24	67401	WAKE_T2	4	5	1	0.55	0.32	-0.23	0	0	0	0	0	0	0	0
4/22/2024 12:24	67402	WAKE_T2	2	3	1	0.65	0.5	-0.15	0.35	0.33	1	1	0	600	600	0
4/22/2024 12:25	10903	COOP_T2	1	1	0	1.4	1.5	0.1	-0.02	0.15	1	1	0	600	600	0
4/22/2024 12:25	45402	WBLO_T2	3	4	1	0.77	0.73	-0.04	-0.81	-0.86	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/22/2024 12:26	45902	AUBU_T1	1	1	0	1.1	1.1	0	-0.61	-0.63	1	1	0	600	600	0
4/22/2024 12:26	60803	BUCK_T1	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
4/22/2024 12:27	45403	WBLO_T1	0	0	0	0	0	0	-0.47	-0.27	3	3	0	3600	3600	0
4/22/2024 12:27	54503	ENOL_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/22/2024 12:27	54505	ENOL_T2	5	5	0	0.86	0.7	-0.16	0	0	0	0	0	0	0	0
4/22/2024 12:27	56504	ROCK_T2	5	8	3	0.36	0.35	-0.01	0	0	0	0	0	0	0	0
4/22/2024 12:27	56501	ROCK_T2	5	5	0	0.54	0.7	0.16	0	0	0	0	0	0	0	0
4/22/2024 12:27	56503	ROCK_T2	4	3	-1	0.38	0.5	0.12	0	0	0	0	0	0	0	0
4/22/2024 12:27	54504	ENOL_T2	1	1	0	0.6	0.6	0	-1.06	-1.03	1	1	0	600	600	0
4/22/2024 12:27	45402	WBLO_T2	3	4	1	0.77	0.73	-0.04	-0.81	-0.86	0	0	0	0	0	0
4/22/2024 12:27	54501	ENOL_T2	8	7	-1	0.79	0.6	-0.19	0	0	0	0	0	0	0	0
4/22/2024 12:28	62604	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 12:28	62605	ENGL_T1	5	4	-1	0.32	0.33	0.01	0	0	0	0	0	0	0	0
4/22/2024 12:28	62607	ENGL_T1	2	3	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/22/2024 12:28	62602	ENGL_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/22/2024 12:28	62601	ENGL_T1	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
4/22/2024 12:29	41204	KENM_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
4/22/2024 12:29	41801	GOCI_T2	357	353	-4	1.16	1.13	-0.03	0	0	0	0	0	0	0	0
4/22/2024 12:29	41202	KENM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 12:29	41802	GOCI_T2	14	13	-1	0.28	0.16	-0.12	0	0	0	0	0	0	0	0
4/22/2024 12:30	56501	ROCK_T2	5	4	-1	0.7	0.73	0.03	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 12:30	56503	ROCK_T2	3	3	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/22/2024 12:30	56504	ROCK_T2	6	8	2	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
4/22/2024 12:31	56504	ROCK_T2	6	8	2	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
4/22/2024 12:31	64302	LINC_T2	0	0	0	0	0	0	1.01	1.03	0	0	0	0	0	0
4/22/2024 12:31	25402	LAHA_T2	3	3	0	1.23	0.87	-0.36	-0.26	-0.21	0	0	0	0	0	0
4/22/2024 12:31	56503	ROCK_T2	3	3	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/22/2024 12:31	56501	ROCK_T2	5	4	-1	0.7	0.73	0.03	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 12:31	25404	LAHA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/22/2024 12:31	64304	LINC_T2	6	4	-2	0.52	0.43	-0.09	0	0	0	0	0	0	0	0
4/22/2024 12:32	16401	MOPO_T1	3	2	-1	0.5	0.7	0.2	0.25	0.23	0	0	0	0	0	0
4/22/2024 12:32	16406	MOPO_T1	0	0	0	0	0	0	-0.53	-0.58	1	1	0	1200	1200	0
4/22/2024 12:32	16402	MOPO_T1	2	3	1	0.4	0.9	0.5	0	0	0	0	0	0	0	0
4/22/2024 12:33	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
4/22/2024 12:34	14502	SCHO_T1	2	2	0	1	1.05	0.05	0.23	0.23	0	0	0	0	0	0
4/22/2024 12:34	23002	SAJO_T1	1	1	0	1.1	2.2	1.1	0	0	0	0	0	0	0	0
4/22/2024 12:34	23001	SAJO_T1	0	0	0	0	0	0	0.05	0.07	0	0	0	0	0	0
4/22/2024 12:36	13807	SALI_T1	4	4	0	1.33	1.05	-0.28	0	0	0	0	0	0	0	0
4/22/2024 12:36	13803	SALI_T1	0	0	0	0	0	0	0.07	0.23	4	4	0	4800	4800	0
4/22/2024 12:36	56504	ROCK_T2	6	8	2	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
4/22/2024 12:36	56503	ROCK_T2	3	3	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/22/2024 12:36	56501	ROCK_T2	5	4	-1	0.7	0.73	0.03	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 12:37	14501	SCHO_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
4/22/2024 12:37	13807	SALI_T1	4	4	0	1.33	1.05	-0.28	0	0	0	0	0	0	0	0
4/22/2024 12:37	14502	SCHO_T1	2	2	0	1	1.05	0.05	0	0	0	0	0	0	0	0
4/22/2024 12:37	45902	AUBU_T1	1	4	3	0.9	0.43	-0.47	-0.61	-0.63	1	1	0	600	600	0
4/22/2024 12:37	13803	SALI_T1	0	0	0	0	0	0	0.04	0.12	2	2	0	2400	2400	0
4/22/2024 12:40	46001	BERW_T1	0	0	0	0	0	0	1.03	1.04	0	0	0	0	0	0
4/22/2024 12:40	46005	BERW_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/22/2024 12:41	18001	ZION_T1	5	4	-1	0.52	0.65	0.13	0	0	0	0	0	0	0	0
4/22/2024 12:41	42401	GIMA_T1	8	10	2	0.26	0.29	0.03	0	0	0	0	0	0	0	0
4/22/2024 12:42	45902	AUBU_T1	1	4	3	0.9	0.43	-0.47	-0.63	-0.64	1	1	0	600	600	0
4/22/2024 12:43	54503	ENOL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/22/2024 12:43	64201	KINZ_T1	0	0	0	0	0	0	-0.52	-0.49	4	4	0	2100	2100	0
4/22/2024 12:43	46002	BERW_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/22/2024 12:43	54501	ENOL_T2	7	8	1	0.5	0.56	0.06	0	0	0	0	0	0	0	0
4/22/2024 12:43	46004	BERW_T2	5	5	0	0.22	0.16	-0.06	-0.06	-0.01	0	0	0	0	0	0
4/22/2024 12:43	54505	ENOL_T2	5	5	0	0.66	0.7	0.04	0	0	0	0	0	0	0	0
4/22/2024 12:43	60102	COCA_T1	0	0	0	0	0	0	0.03	-0.1	2	2	0	1200	1200	0
4/22/2024 12:43	54504	ENOL_T2	1	1	0	0.6	0.5	-0.1	-1.03	-1.03	1	1	0	600	600	0
4/22/2024 12:43	64202	KINZ_T1	3	2	-1	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
4/22/2024 12:43	64203	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/22/2024 12:43	64204	KINZ_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
4/22/2024 12:43	60101	COCA_T1	5	8	3	0.62	0.58	-0.04	0	0	0	0	0	0	0	0
4/22/2024 12:44	64702	LITI_T2	0	0	0	0	0	0	-0.61	-0.7	0	0	0	0	0	0
4/22/2024 12:46	60501	NMAN_T2	6	8	2	3.02	2.31	-0.71	0	0	0	0	0	0	0	0
4/22/2024 12:46	60504	NMAN_T2	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/22/2024 12:46	60502	NMAN_T2	2	3	1	0.15	0.27	0.12	-0.29	-0.33	0	0	0	0	0	0
4/22/2024 12:47	41202	KENM_T2	1	0	-1	0.1	0	-0.1	0.5	0.5	0	0	0	0	0	0
4/22/2024 12:49	24102	EHAZ_T1	0	1	1	0	0	0	0.35	0.32	0	0	0	0	0	0
4/22/2024 12:49	24104	EHAZ_T1	3	3	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
4/22/2024 12:49	24105	EHAZ_T1	4	4	0	6.68	6.78	0.1	0	0	0	0	0	0	0	0
4/22/2024 12:52	45902	AUBU_T1	1	4	3	1.1	0.78	-0.32	-0.63	-0.64	1	1	0	600	600	0
4/22/2024 12:54	14702	TRIX_T2	1	1	0	0.5	0.3	-0.2	0.85	0.83	0	0	0	0	0	0
4/22/2024 12:58	45902	AUBU_T1	1	4	3	1.1	0.78	-0.32	-0.64	-0.65	1	1	0	600	600	0
4/22/2024 12:58	57304	MOAL_T2	66	65	-1	0.52	0.49	-0.03	0	0	0	0	0	0	0	0
4/22/2024 12:58	57303	MOAL_T2	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
4/22/2024 12:58	57306	MOAL_T2	4	4	0	0.53	0.5	-0.03	-3.25	-3.26	1	1	0	1200	1200	0
4/22/2024 13:00	64702	LITI_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
4/22/2024 13:07	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/22/2024 13:08	45902	AUBU_T1	4	9	5	0.43	0.61	0.18	-0.65	-0.6	1	1	0	600	600	0
4/22/2024 13:09	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 13:10	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/22/2024 13:10	56504	ROCK_T2	5	12	7	0.34	0.53	0.19	0	0	0	0	0	0	0	0
4/22/2024 13:10	56501	ROCK_T2	4	5	1	0.73	0.68	-0.05	0	0	0	0	0	0	0	0
4/22/2024 13:10	56503	ROCK_T2	3	2	-1	0.37	0.6	0.23	0	0	0	0	0	0	0	0
4/22/2024 13:12	64101	REFR_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
4/22/2024 13:13	45902	AUBU_T1	4	9	5	0.43	0.61	0.18	-0.65	-0.6	1	1	0	600	600	0
4/22/2024 13:13	60803	BUCK_T1	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
4/22/2024 13:13	41502	FAIR_T2	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
4/22/2024 13:14	40101	HUNT_T2	0	5	5	0	0.28	0.28	-1.34	-1.32	0	0	0	0	0	0
4/22/2024 13:15	16402	MOPO_T1	3	2	-1	0.4	0.85	0.45	-0.02	-0.01	0	0	0	0	0	0
4/22/2024 13:15	16401	MOPO_T1	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/22/2024 13:16	40101	HUNT_T2	4	4	0	0.33	0.18	-0.15	-0.67	-0.66	0	0	0	0	0	0
4/22/2024 13:18	22601	KIMB_T1	2	2	0	1.1	1.25	0.15	0	0	0	0	0	0	0	0
4/22/2024 13:18	40101	HUNT_T2	4	4	0	0.33	0.18	-0.15	-0.67	-0.66	0	0	0	0	0	0
4/22/2024 13:18	22602	KIMB_T1	2	2	0	0.3	0.3	0	0.33	0.32	0	0	0	0	0	0
4/22/2024 13:20	60501	NMAN_T2	7	7	0	2.59	2.63	0.04	0	0	0	0	0	0	0	0
4/22/2024 13:20	60502	NMAN_T2	2	4	2	0.15	0.35	0.2	-0.23	-0.37	0	0	0	0	0	0
4/22/2024 13:20	60504	NMAN_T2	3	3	0	0.8	0.93	0.13	0	0	0	0	0	0	0	0
4/22/2024 13:22	57403	SPAN_T1	144	183	39	0.31	0.66	0.35	-0.06	-0.05	0	0	0	0	0	0
4/22/2024 13:22	57401	SPAN_T1	5	6	1	0.82	0.78	-0.04	0	0	0	0	0	0	0	0
4/22/2024 13:23	57403	SPAN_T1	144	183	39	0.31	0.66	0.35	-0.05	-0.02	0	0	0	0	0	0
4/22/2024 13:23	57401	SPAN_T1	5	6	1	0.82	0.78	-0.04	0	0	0	0	0	0	0	0
4/22/2024 13:24	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 13:24	57403	SPAN_T1	144	183	39	0.31	0.66	0.35	-0.05	-0.02	0	0	0	0	0	0
4/22/2024 13:24	57401	SPAN_T1	5	6	1	0.82	0.78	-0.04	0	0	0	0	0	0	0	0
4/22/2024 13:24	45902	AUBU_T1	4	11	7	0.78	0.71	-0.07	-0.6	-0.73	1	1	0	600	600	0
4/22/2024 13:25	61303	EARL_T1	0	0	0	0	0	0	0.51	0.61	0	0	0	0	0	0
4/22/2024 13:25	61304	EARL_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/22/2024 13:25	61302	EARL_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
4/22/2024 13:25	61701	ELIZ_T1	2	2	0	3.65	3.7	0.05	0	0	0	0	0	0	0	0
4/22/2024 13:25	61703	ELIZ_T1	3	7	4	0.33	0.34	0.01	-7.73	-7.68	6	6	0	6300	6300	0
4/22/2024 13:25	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/22/2024 13:26	60901	DONG_T2	9	12	3	0.49	0.58	0.09	0	0	0	0	0	0	0	0
4/22/2024 13:26	60904	DONG_T2	4	12	8	0.35	0.43	0.08	0	0	0	0	0	0	0	0
4/22/2024 13:26	60902	DONG_T2	2	2	0	0.3	0.55	0.25	0.6	0.65	0	0	0	0	0	0
4/22/2024 13:26	60903	DONG_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/22/2024 13:29	61703	ELIZ_T1	3	7	4	0.33	0.34	0.01	-5.15	-5.12	4	4	0	4200	4200	0
4/22/2024 13:29	45902	AUBU_T1	4	11	7	0.78	0.71	-0.07	-0.6	-0.73	1	1	0	600	600	0
4/22/2024 13:29	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 13:29	61701	ELIZ_T1	2	2	0	3.65	3.7	0.05	0	0	0	0	0	0	0	0
4/22/2024 13:32	59003	MIFF_T1	4	4	0	0.43	0.33	-0.1	-0.25	-0.27	0	0	0	0	0	0
4/22/2024 13:32	59002	MIFF_T1	6	3	-3	0.32	0.13	-0.19	0	0	0	0	0	0	0	0
4/22/2024 13:33	51204	MTON_T2	2	4	2	0.4	0.28	-0.12	-0.45	-0.46	1	1	0	600	600	0
4/22/2024 13:33	51202	MTON_T2	5	5	0	0.88	0.92	0.04	0	0	0	0	0	0	0	0
4/22/2024 13:35	51204	MTON_T2	2	4	2	0.4	0.28	-0.12	-0.45	-0.46	1	1	0	600	600	0
4/22/2024 13:35	51202	MTON_T2	5	5	0	0.88	0.92	0.04	0	0	0	0	0	0	0	0
4/22/2024 13:36	13606	RICH_T2	2	2	0	4	3.95	-0.05	0	0	0	0	0	0	0	0
4/22/2024 13:36	13601	RICH_T2	1	1	0	0.4	0.1	-0.3	-0.03	0	1	1	0	600	600	0
4/22/2024 13:38	66701	STRA_T1	2	3	1	0.9	0.77	-0.13	0	0	0	0	0	0	0	0
4/22/2024 13:38	64101	REFR_T1	0	0	0	0	0	0	-0.62	-0.65	0	0	0	0	0	0
4/22/2024 13:38	66703	STRA_T1	3	8	5	1.67	0.29	-1.38	0	0	0	0	0	0	0	0
4/22/2024 13:38	57401	SPAN_T1	6	6	0	0.78	0.83	0.05	0	0	0	0	0	0	0	0
4/22/2024 13:38	66702	STRA_T1	0	0	0	0	0	0	0.8	0.74	2	2	0	1500	1500	0
4/22/2024 13:38	57403	SPAN_T1	159	190	31	0.39	0.79	0.4	-0.02	-0.05	0	0	0	0	0	0
4/22/2024 13:39	45902	AUBU_T1	9	14	5	0.61	0.74	0.13	-0.73	-0.78	1	1	0	600	600	0
4/22/2024 13:39	45901	AUBU_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/22/2024 13:40	67402	WAKE_T2	2	1	-1	0.4	0.9	0.5	0.34	0.34	1	1	0	600	600	0
4/22/2024 13:40	45902	AUBU_T1	9	14	5	0.61	0.74	0.13	-0.73	-0.78	1	1	0	600	600	0
4/22/2024 13:40	67501	WEWI_T1	5	7	2	0.82	0.59	-0.23	0	0	0	0	0	0	0	0
4/22/2024 13:40	67401	WAKE_T2	4	6	2	0.23	0.45	0.22	0	0	0	0	0	0	0	0
4/22/2024 13:40	67505	WEWI_T1	3	4	1	0.5	0.55	0.05	-0.31	-0.29	1	1	0	900	900	0
4/22/2024 13:40	45901	AUBU_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/22/2024 13:41	61703	ELIZ_T1	7	6	-1	0.3	0.38	0.08	-2.56	-2.54	2	2	0	2100	2100	0
4/22/2024 13:41	61701	ELIZ_T1	2	2	0	3.65	3.85	0.2	0	0	0	0	0	0	0	0
4/22/2024 13:44	56601	HAMP_T1	0	1	1	0	0.2	0.2	-0.55	-0.47	0	0	0	0	0	0
4/22/2024 13:44	40702	FFLD_T1	1	1	0	0.1	0.2	0.1	-0.34	-0.33	1	1	0	1200	1200	0
4/22/2024 13:44	40703	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 13:44	40701	FFLD_T1	24	24	0	0.18	0.18	0	0	0	0	0	0	0	0	0
4/22/2024 13:45	45901	AUBU_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/22/2024 13:45	45902	AUBU_T1	11	14	3	0.71	0.74	0.03	-0.73	-0.78	1	1	0	600	600	0
4/22/2024 13:46	56503	ROCK_T2	2	3	1	0.75	0.57	-0.18	0	0	0	0	0	0	0	0
4/22/2024 13:46	56504	ROCK_T2	8	13	5	0.51	0.55	0.04	0	0	0	0	0	0	0	0
4/22/2024 13:46	47001	HUGH_T2	3	3	0	0.17	0.5	0.33	0	0	0	0	0	0	0	0
4/22/2024 13:46	47002	HUGH_T2	5	17	12	0.66	0.3	-0.36	0	0	0	0	0	0	0	0
4/22/2024 13:46	56501	ROCK_T2	4	11	7	0.85	0.47	-0.38	0	0	0	0	0	0	0	0
4/22/2024 13:47	40603	PIGR_T1	4	4	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/22/2024 13:47	40602	PIGR_T1	2	2	0	0.55	0.85	0.3	0.56	0.61	0	0	0	0	0	0
4/22/2024 13:47	40601	PIGR_T1	137	172	35	0.43	0.49	0.06	0	0	0	0	0	0	0	0
4/22/2024 13:49	40602	PIGR_T1	2	2	0	0.55	0.85	0.3	1.12	1.21	0	0	0	0	0	0
4/22/2024 13:49	40101	HUNT_T2	0	0	0	0	0	0	-0.68	-0.63	0	0	0	0	0	0
4/22/2024 13:49	65702	RVIL_T2	18	23	5	0.37	0.36	-0.01	-1.01	-1.02	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/22/2024 13:49	40601	PIGR_T1	137	172	35	0.43	0.49	0.06	0	0	0	0	0	0	0	0
4/22/2024 13:49	51201	MTON_T1	2	2	0	0.5	0.6	0.1	-0.02	-0.03	0	0	0	0	0	0
4/22/2024 13:49	40603	PIGR_T1	4	4	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/22/2024 13:50	40601	PIGR_T1	137	172	35	0.43	0.49	0.06	0	0	0	0	0	0	0	0
4/22/2024 13:50	56504	ROCK_T2	8	13	5	0.51	0.55	0.04	0	0	0	0	0	0	0	0
4/22/2024 13:50	56501	ROCK_T2	4	11	7	0.85	0.47	-0.38	0	0	0	0	0	0	0	0
4/22/2024 13:50	65702	RVIL_T2	18	23	5	0.37	0.36	-0.01	-1.01	-1.02	1	1	0	600	600	0
4/22/2024 13:50	40602	PIGR_T1	2	2	0	0.55	0.85	0.3	0.56	0.61	0	0	0	0	0	0
4/22/2024 13:50	51201	MTON_T1	2	2	0	0.5	0.6	0.1	-0.02	-0.03	0	0	0	0	0	0
4/22/2024 13:50	56503	ROCK_T2	2	3	1	0.75	0.57	-0.18	0	0	0	0	0	0	0	0
4/22/2024 13:50	40603	PIGR_T1	4	4	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/22/2024 13:51	65702	RVIL_T2	18	23	5	0.37	0.36	-0.01	-1.01	-1.02	1	1	0	600	600	0
4/22/2024 13:51	56503	ROCK_T2	2	3	1	0.75	0.57	-0.18	0	0	0	0	0	0	0	0
4/22/2024 13:51	56501	ROCK_T2	4	11	7	0.85	0.47	-0.38	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 13:51	46301	ROHR_T1	239	272	33	0.34	0.37	0.03	0	0	0	0	0	0	0	0
4/22/2024 13:51	46302	ROHR_T1	76	89	13	0.34	0.34	0	0.17	0.16	0	0	0	0	0	0
4/22/2024 13:51	56504	ROCK_T2	8	13	5	0.51	0.55	0.04	0	0	0	0	0	0	0	0
4/22/2024 13:52	65702	RVIL_T2	18	23	5	0.37	0.36	-0.01	-1.01	-1.02	1	1	0	600	600	0
4/22/2024 13:54	51601	DUKE_T1	7	7	0	0.46	0.54	0.08	0	0	0	0	0	0	0	0
4/22/2024 13:54	51603	DUKE_T1	6	5	-1	0.67	0.7	0.03	-0.46	-0.44	0	0	0	0	0	0
4/22/2024 13:55	60901	DONG_T2	12	14	2	0.58	0.68	0.1	0	0	0	0	0	0	0	0
4/22/2024 13:55	60904	DONG_T2	12	14	2	0.43	0.49	0.06	0	0	0	0	0	0	0	0
4/22/2024 13:55	60902	DONG_T2	2	4	2	0.55	0.38	-0.17	0.63	0.66	0	0	0	0	0	0
4/22/2024 13:55	45902	AUBU_T1	11	14	3	0.71	0.74	0.03	-0.78	-0.88	1	1	0	600	600	0
4/22/2024 13:55	45901	AUBU_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/22/2024 13:55	60903	DONG_T2	1	3	2	0.9	0.37	-0.53	0	0	0	0	0	0	0	0
4/22/2024 13:56	67401	WAKE_T2	5	7	2	0.34	0.41	0.07	-1.18	-1.13	0	0	0	0	0	0
4/22/2024 13:56	61703	ELIZ_T1	5	6	1	0.32	0.38	0.06	-2.54	-2.44	2	2	0	2100	2100	0
4/22/2024 13:56	61701	ELIZ_T1	2	2	0	3.7	3.85	0.15	0	0	0	0	0	0	0	0
4/22/2024 13:56	67402	WAKE_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/22/2024 13:57	51604	DUKE_T2	6	5	-1	0.47	0.6	0.13	-0.34	-0.33	0	0	0	0	0	0
4/22/2024 13:57	45902	AUBU_T1	11	14	3	0.71	0.74	0.03	-0.78	-0.88	1	1	0	600	600	0
4/22/2024 13:57	45901	AUBU_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/22/2024 13:57	51602	DUKE_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/22/2024 13:59	60904	DONG_T2	12	14	2	0.43	0.49	0.06	0	0	0	0	0	0	0	0
4/22/2024 13:59	60903	DONG_T2	1	3	2	0.9	0.37	-0.53	0	0	0	0	0	0	0	0
4/22/2024 13:59	60902	DONG_T2	2	4	2	0.55	0.38	-0.17	0.63	0.66	0	0	0	0	0	0
4/22/2024 13:59	51601	DUKE_T1	7	7	0	0.46	0.54	0.08	0	0	0	0	0	0	0	0
4/22/2024 13:59	51603	DUKE_T1	6	5	-1	0.67	0.7	0.03	-0.46	-0.44	0	0	0	0	0	0
4/22/2024 13:59	60901	DONG_T2	12	14	2	0.58	0.68	0.1	0	0	0	0	0	0	0	0
4/22/2024 14:01	65501	MOJO_T1	1	1	0	0.2	0.3	0.1	-0.05	-0.1	0	0	0	0	0	0
4/22/2024 14:01	45901	AUBU_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/22/2024 14:01	45902	AUBU_T1	14	8	-6	0.74	0.69	-0.05	-0.78	-0.88	1	1	0	600	600	0
4/22/2024 14:02	64204	KINZ_T1	1	2	1	1	0.75	-0.25	0	0	0	0	0	0	0	0
4/22/2024 14:02	64203	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 14:02	64201	KINZ_T1	0	1	1	0	0.4	0.4	-0.62	-0.61	4	4	0	2100	2100	0
4/22/2024 14:02	64202	KINZ_T1	3	4	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/22/2024 14:03	40602	PIGR_T1	2	2	0	0.85	0.75	-0.1	0.61	0.56	0	0	0	0	0	0
4/22/2024 14:03	40601	PIGR_T1	130	191	61	0.4	0.56	0.16	0	0	0	0	0	0	0	0
4/22/2024 14:03	40603	PIGR_T1	4	4	0	0.48	0.53	0.05	0	0	0	0	0	0	0	0
4/22/2024 14:04	58401	MORO_T1	3	4	1	0.2	0.38	0.18	-0.98	-0.96	1	1	0	600	600	0
4/22/2024 14:05	54601	SUMM_T2	8	13	5	0.38	0.44	0.06	-1.84	-1.86	2	2	0	2100	2100	0
4/22/2024 14:05	58401	MORO_T1	3	4	1	0.2	0.38	0.18	-0.98	-0.96	1	1	0	600	600	0
4/22/2024 14:05	57003	WHHI_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/22/2024 14:05	54602	SUMM_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/22/2024 14:05	57002	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/22/2024 14:05	57006	WHHI_T2	59	4	-55	0.25	0.9	0.65	-0.39	0.7	0	0	0	0	0	0
4/22/2024 14:05	57004	WHHI_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
4/22/2024 14:05	57005	WHHI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/22/2024 14:06	61101	BERK_T5	5	5	0	0.32	0.38	0.06	0	0	0	0	0	0	0	0
4/22/2024 14:06	54602	SUMM_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/22/2024 14:06	61102	BERK_T5	2	3	1	0.3	0.33	0.03	0.81	0.77	1	1	0	300	300	0
4/22/2024 14:06	51303	WIND_T1	1	2	1	1.1	0.75	-0.35	0	0	0	0	0	0	0	0
4/22/2024 14:06	61103	BERK_T5	5	6	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
4/22/2024 14:06	51301	WIND_T1	12	13	1	0.55	0.64	0.09	0	0	0	0	0	0	0	0
4/22/2024 14:06	54601	SUMM_T2	8	13	5	0.38	0.44	0.06	-1.84	-1.86	2	2	0	2100	2100	0
4/22/2024 14:06	51305	WIND_T1	4	4	0	0.68	0.78	0.1	-0.43	-0.42	0	0	0	0	0	0
4/22/2024 14:07	15702	TANN_T2	0	1	1	0	0.2	0.2	0.47	0.51	0	0	0	0	0	0
4/22/2024 14:07	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
4/22/2024 14:08	57003	WHHI_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/22/2024 14:08	57005	WHHI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/22/2024 14:08	57004	WHHI_T2	1	1	0	0.7	0.3	-0.4	-0.59	-0.56	0	0	0	0	0	0
4/22/2024 14:08	57006	WHHI_T2	59	4	-55	0.25	0.9	0.65	0	0	0	0	0	0	0	0
4/22/2024 14:08	57002	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/22/2024 14:09	57006	WHHI_T2	59	4	-55	0.25	0.9	0.65	0	0	0	0	0	0	0	0
4/22/2024 14:09	51306	WIND_T2	3	3	0	0.33	0.4	0.07	0.09	0.1	0	0	0	0	0	0
4/22/2024 14:09	57005	WHHI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/22/2024 14:09	57002	WHHI_T2	1	0	-1	0.2	0	-0.2	-0.09	-0.13	0	0	0	0	0	0
4/22/2024 14:09	51302	WIND_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/22/2024 14:09	51304	WIND_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/22/2024 14:09	54602	SUMM_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/22/2024 14:09	57004	WHHI_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
4/22/2024 14:09	57003	WHHI_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/22/2024 14:09	54601	SUMM_T2	8	13	5	0.38	0.44	0.06	-3.72	-3.76	4	4	0	4200	4200	0
4/22/2024 14:10	57005	WHHI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/22/2024 14:10	57004	WHHI_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
4/22/2024 14:10	57006	WHHI_T2	59	4	-55	0.25	0.9	0.65	0.7	0.61	0	0	0	0	0	0
4/22/2024 14:10	57003	WHHI_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/22/2024 14:10	57002	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/22/2024 14:11	45902	AUBU_T1	14	8	-6	0.74	0.69	-0.05	-1.75	-1.45	2	2	0	1200	1200	0
4/22/2024 14:11	61506	EPET_T2	0	0	0	0	0	0	-0.74	-0.92	1	1	0	900	900	0
4/22/2024 14:11	61504	EPET_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 14:11	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
4/22/2024 14:11	45901	AUBU_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/22/2024 14:11	15702	TANN_T2	0	1	1	0	0.2	0.2	0.51	0.46	0	0	0	0	0	0
4/22/2024 14:12	61502	EPET_T1	4	4	0	0.33	0.43	0.1	-1	-0.98	0	0	0	0	0	0
4/22/2024 14:12	48303	ORWI_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
4/22/2024 14:12	20403	ASHF_T2	9	25	16	1.19	0.47	-0.72	0	0	0	0	0	0	0	0
4/22/2024 14:12	61505	EPET_T1	3	12	9	0.73	0.26	-0.47	0	0	0	0	0	0	0	0
4/22/2024 14:12	20401	ASHF_T2	5	7	2	0.68	0.46	-0.22	-0.3	-0.32	0	0	0	0	0	0
4/22/2024 14:12	48302	ORWI_T2	2	3	1	1.5	1.27	-0.23	0	0	0	0	0	0	0	0
4/22/2024 14:12	61503	EPET_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/22/2024 14:13	45902	AUBU_T1	14	8	-6	0.74	0.69	-0.05	-0.88	-0.72	1	1	0	600	600	0
4/22/2024 14:13	60102	COCA_T1	0	0	0	0	0	0	0.12	0.08	2	2	0	1200	1200	0
4/22/2024 14:13	45901	AUBU_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/22/2024 14:13	60101	COCA_T1	5	6	1	0.54	0.55	0.01	0	0	0	0	0	0	0	0
4/22/2024 14:16	45902	AUBU_T1	8	6	-2	0.69	0.73	0.04	-0.88	-0.72	1	1	0	600	600	0
4/22/2024 14:16	45901	AUBU_T1	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/22/2024 14:16	42802	SEU_T1	0	0	0	0	0	0	-0.83	-0.81	1	1	0	900	900	0
4/22/2024 14:16	14502	SCHO_T1	2	3	1	0.9	0.8	-0.1	0.25	0.26	0	0	0	0	0	0
4/22/2024 14:17	40101	HUNT_T2	0	0	0	0	0	0	-0.44	-0.41	0	0	0	0	0	0
4/22/2024 14:18	13105	NHAM_T2	0	0	0	0	0	0	-0.83	-0.79	1	1	0	1200	1200	0
4/22/2024 14:20	43103	SMIL_T2	37	42	5	0.98	0.92	-0.06	0	0	0	0	0	0	0	0
4/22/2024 14:20	43105	SMIL_T2	14	19	5	0.42	0.46	0.04	0	0	0	0	0	0	0	0
4/22/2024 14:20	43101	SMIL_T2	8	9	1	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
4/22/2024 14:20	43102	SMIL_T2	10	12	2	0.66	0.74	0.08	-0.8	-0.8	1	1	0	600	600	0
4/22/2024 14:20	43104	SMIL_T2	8	9	1	0.7	0.79	0.09	0	0	0	0	0	0	0	0
4/22/2024 14:21	66505	SMAN_T2	6	6	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
4/22/2024 14:21	57006	WHHI_T2	4	5	1	0.78	0.82	0.04	0	0	0	0	0	0	0	0
4/22/2024 14:21	66501	SMAN_T2	2	2	0	0.85	1.1	0.25	0	0	0	0	0	0	0	0
4/22/2024 14:21	66503	SMAN_T2	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
4/22/2024 14:21	66502	SMAN_T2	29	27	-2	0.41	0.39	-0.02	0.2	0.13	0	0	0	0	0	0
4/22/2024 14:21	44601	SALE_T2	0	0	0	0	0	0	0.64	-0.06	1	1	0	600	600	0
4/22/2024 14:21	66504	SMAN_T2	10	8	-2	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
4/22/2024 14:21	57004	WHHI_T2	0	1	1	0	0.3	0.3	-0.59	-0.56	0	0	0	0	0	0
4/22/2024 14:22	66505	SMAN_T2	6	6	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
4/22/2024 14:22	66502	SMAN_T2	29	27	-2	0.41	0.39	-0.02	0	0	0	0	0	0	0	0
4/22/2024 14:22	57205	ROSS_T1	4	4	0	1	1.08	0.08	0	0	0	0	0	0	0	0
4/22/2024 14:22	66504	SMAN_T2	10	8	-2	0.47	0.43	-0.04	-0.33	-0.35	0	0	0	0	0	0
4/22/2024 14:22	66501	SMAN_T2	2	2	0	0.85	1.1	0.25	0	0	0	0	0	0	0	0
4/22/2024 14:22	66503	SMAN_T2	2	2	0	0.55	0.5	-0.05	0.31	0.33	0	0	0	0	0	0
4/22/2024 14:22	57203	ROSS_T1	2	2	0	0.55	0.6	0.05	-0.76	-0.74	0	0	0	0	0	0
4/22/2024 14:23	66504	SMAN_T2	10	8	-2	0.47	0.43	-0.04	-0.71	-0.77	0	0	0	0	0	0
4/22/2024 14:23	51301	WIND_T1	12	13	1	0.61	0.59	-0.02	0	0	0	0	0	0	0	0
4/22/2024 14:23	57004	WHHI_T2	0	1	1	0	0.3	0.3	-0.56	-0.59	0	0	0	0	0	0
4/22/2024 14:23	57006	WHHI_T2	4	5	1	0.78	0.82	0.04	0	0	0	0	0	0	0	0
4/22/2024 14:23	51303	WIND_T1	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/22/2024 14:23	43102	SMIL_T2	10	12	2	0.66	0.74	0.08	-0.8	-0.8	1	1	0	600	600	0
4/22/2024 14:23	43103	SMIL_T2	37	42	5	0.98	0.92	-0.06	0	0	0	0	0	0	0	0
4/22/2024 14:23	43101	SMIL_T2	8	9	1	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
4/22/2024 14:23	51305	WIND_T1	4	4	0	0.73	0.73	0	0	0	0	0	0	0	0	0
4/22/2024 14:23	43105	SMIL_T2	14	19	5	0.42	0.46	0.04	0	0	0	0	0	0	0	0
4/22/2024 14:23	43104	SMIL_T2	8	9	1	0.7	0.79	0.09	-0.8	-0.81	1	1	0	300	300	0
4/22/2024 14:23	66505	SMAN_T2	6	6	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
4/22/2024 14:23	66502	SMAN_T2	29	27	-2	0.41	0.39	-0.02	0	0	0	0	0	0	0	0
4/22/2024 14:23	66503	SMAN_T2	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
4/22/2024 14:23	66501	SMAN_T2	2	2	0	0.85	1.1	0.25	0	0	0	0	0	0	0	0
4/22/2024 14:24	43104	SMIL_T2	8	9	1	0.7	0.79	0.09	-1.62	-1.68	2	2	0	600	600	0
4/22/2024 14:24	43102	SMIL_T2	10	12	2	0.66	0.74	0.08	-0.8	-0.8	1	1	0	600	600	0
4/22/2024 14:24	43101	SMIL_T2	8	9	1	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
4/22/2024 14:24	43103	SMIL_T2	37	42	5	0.98	0.92	-0.06	0	0	0	0	0	0	0	0
4/22/2024 14:24	43105	SMIL_T2	14	19	5	0.42	0.46	0.04	0	0	0	0	0	0	0	0
4/22/2024 14:25	66503	SMAN_T2	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
4/22/2024 14:25	43105	SMIL_T2	14	19	5	0.42	0.46	0.04	0	0	0	0	0	0	0	0
4/22/2024 14:25	66501	SMAN_T2	2	2	0	0.85	1.1	0.25	0	0	0	0	0	0	0	0
4/22/2024 14:25	66504	SMAN_T2	10	8	-2	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
4/22/2024 14:25	43103	SMIL_T2	37	42	5	0.98	0.92	-0.06	0	0	0	0	0	0	0	0
4/22/2024 14:25	66505	SMAN_T2	6	6	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
4/22/2024 14:25	43101	SMIL_T2	8	9	1	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
4/22/2024 14:25	43102	SMIL_T2	10	12	2	0.66	0.74	0.08	-0.8	-0.8	1	1	0	600	600	0
4/22/2024 14:25	43104	SMIL_T2	8	9	1	0.7	0.79	0.09	-0.81	-0.84	1	1	0	300	300	0
4/22/2024 14:25	66502	SMAN_T2	29	27	-2	0.41	0.39	-0.02	0.26	0.41	0	0	0	0	0	0
4/22/2024 14:26	66505	SMAN_T2	6	6	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/22/2024 14:26	66501	SMAN_T2	2	2	0	0.85	1.1	0.25	0	0	0	0	0	0	0	0
4/22/2024 14:26	66504	SMAN_T2	10	8	-2	0.47	0.43	-0.04	-0.35	-0.38	0	0	0	0	0	0
4/22/2024 14:26	66502	SMAN_T2	29	27	-2	0.41	0.39	-0.02	0.39	0.62	0	0	0	0	0	0
4/22/2024 14:26	11402	FARM_T1	6	7	1	0.48	0.5	0.02	0	0	0	0	0	0	0	0
4/22/2024 14:26	66503	SMAN_T2	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
4/22/2024 14:26	11404	FARM_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/22/2024 14:26	11401	FARM_T1	0	0	0	0	0	0	0.46	0.52	0	0	0	0	0	0
4/22/2024 14:27	45901	AUBU_T1	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/22/2024 14:27	45902	AUBU_T1	8	6	-2	0.69	0.73	0.04	-0.72	-0.77	1	1	0	600	600	0
4/22/2024 14:32	57006	WHHI_T2	4	5	1	0.9	0.8	-0.1	0.61	0.72	0	0	0	0	0	0
4/22/2024 14:32	10704	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/22/2024 14:32	10707	CATA_T2	3	3	0	0.87	0.9	0.03	0	0	0	0	0	0	0	0
4/22/2024 14:32	10705	CATA_T2	2	1	-1	0.35	0.6	0.25	0	0	0	0	0	0	0	0
4/22/2024 14:32	10702	CATA_T2	2	2	0	0.4	0.35	-0.05	-0.65	-0.63	0	0	0	0	0	0
4/22/2024 14:32	60803	BUCK_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
4/22/2024 14:32	45902	AUBU_T1	6	5	-1	0.73	0.64	-0.09	-0.72	-0.77	1	1	0	600	600	0
4/22/2024 14:32	10701	CATA_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/22/2024 14:32	57004	WHHI_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/22/2024 14:32	45901	AUBU_T1	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/22/2024 14:33	58401	MORO_T1	4	4	0	0.38	0.38	0	-0.96	-0.96	1	1	0	600	600	0
4/22/2024 14:34	40603	PIGR_T1	4	3	-1	0.53	0.63	0.1	0	0	0	0	0	0	0	0
4/22/2024 14:34	40601	PIGR_T1	191	161	-30	0.56	0.44	-0.12	0	0	0	0	0	0	0	0
4/22/2024 14:34	40602	PIGR_T1	2	2	0	0.75	0.55	-0.2	0.52	0.54	0	0	0	0	0	0
4/22/2024 14:35	65702	RVIL_T2	23	21	-2	0.35	0.33	-0.02	-0.98	-1.01	1	1	0	600	600	0
4/22/2024 14:38	66502	SMAN_T2	25	25	0	0.34	0.4	0.06	0.21	0.1	0	0	0	0	0	0
4/22/2024 14:38	66503	SMAN_T2	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
4/22/2024 14:38	66504	SMAN_T2	8	6	-2	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/22/2024 14:38	66501	SMAN_T2	2	2	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
4/22/2024 14:38	66505	SMAN_T2	6	6	0	0.82	0.83	0.01	0	0	0	0	0	0	0	0
4/22/2024 14:39	51302	WIND_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 14:39	27503	WEIS_T2	8	8	0	0.49	0.53	0.04	0	0	0	0	0	0	0	0
4/22/2024 14:39	51306	WIND_T2	2	3	1	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
4/22/2024 14:39	51304	WIND_T2	0	0	0	0	0	0	-0.14	-0.06	0	0	0	0	0	0
4/22/2024 14:39	27502	WEIS_T2	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
4/22/2024 14:41	64101	REFR_T1	2	2	0	0.25	0.2	-0.05	-0.69	-0.71	0	0	0	0	0	0
4/22/2024 14:41	67304	WYOM_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/22/2024 14:41	67303	WYOM_T2	5	6	1	0.36	0.43	0.07	-0.22	-0.27	0	0	0	0	0	0
4/22/2024 14:42	66501	SMAN_T2	2	2	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
4/22/2024 14:42	66503	SMAN_T2	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
4/22/2024 14:42	66505	SMAN_T2	6	6	0	0.82	0.83	0.01	0	0	0	0	0	0	0	0
4/22/2024 14:42	66504	SMAN_T2	8	6	-2	0.4	0.5	0.1	-0.38	-0.41	0	0	0	0	0	0
4/22/2024 14:42	66502	SMAN_T2	25	25	0	0.34	0.4	0.06	0.41	0.2	0	0	0	0	0	0
4/22/2024 14:43	45901	AUBU_T1	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/22/2024 14:43	45902	AUBU_T1	6	5	-1	0.73	0.64	-0.09	-0.77	-0.78	1	1	0	600	600	0
4/22/2024 14:47	57304	MOAL_T2	79	76	-3	0.85	0.77	-0.08	0	0	0	0	0	0	0	0
4/22/2024 14:47	61701	ELIZ_T1	2	2	0	3.65	3.75	0.1	0	0	0	0	0	0	0	0
4/22/2024 14:47	57303	MOAL_T2	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
4/22/2024 14:47	57306	MOAL_T2	3	5	2	0.4	0.46	0.06	-3.27	-3.27	1	1	0	1200	1200	0
4/22/2024 14:47	61703	ELIZ_T1	5	7	2	0.34	0.37	0.03	-2.57	-2.54	2	2	0	2100	2100	0
4/22/2024 14:47	57301	MOAL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 14:48	45902	AUBU_T1	5	4	-1	0.64	0.73	0.09	-0.77	-0.78	1	1	0	600	600	0
4/22/2024 14:48	45901	AUBU_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 14:51	57005	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 14:51	57006	WHHI_T2	5	5	0	0.78	0.74	-0.04	0	0	0	0	0	0	0	0
4/22/2024 14:51	57004	WHHI_T2	1	1	0	0.3	0.2	-0.1	-0.59	-0.63	0	0	0	0	0	0
4/22/2024 14:51	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 14:52	57005	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 14:52	43202	MVIL_T2	174	181	7	0.93	0.89	-0.04	0	0	0	0	0	0	0	0
4/22/2024 14:52	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 14:52	57004	WHHI_T2	1	1	0	0.3	0.2	-0.1	-0.59	-0.63	0	0	0	0	0	0
4/22/2024 14:52	57006	WHHI_T2	5	5	0	0.78	0.74	-0.04	0	0	0	0	0	0	0	0
4/22/2024 14:52	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 14:52	51306	WIND_T2	3	2	-1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
4/22/2024 14:52	43201	MVIL_T2	7	9	2	0.47	0.54	0.07	-0.35	-0.38	0	0	0	0	0	0
4/22/2024 14:53	45901	AUBU_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 14:53	45902	AUBU_T1	5	4	-1	0.64	0.73	0.09	-0.78	-0.78	1	1	0	600	600	0
4/22/2024 14:53	60803	BUCK_T1	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
4/22/2024 14:55	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 14:55	57004	WHHI_T2	1	1	0	0.3	0.2	-0.1	-0.63	-0.63	0	0	0	0	0	0
4/22/2024 14:55	57005	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 14:55	57006	WHHI_T2	5	5	0	0.78	0.74	-0.04	0	0	0	0	0	0	0	0
4/22/2024 14:55	45902	AUBU_T1	5	4	-1	0.64	0.73	0.09	-0.78	-0.78	1	1	0	600	600	0
4/22/2024 14:55	45901	AUBU_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 14:56	11303	EMMA_T1	11	10	-1	0.66	0.64	-0.02	-1.7	-1.7	0	0	0	0	0	0
4/22/2024 14:56	11301	EMMA_T1	4	2	-2	0.53	0.65	0.12	0	0	0	0	0	0	0	0
4/22/2024 14:56	45901	AUBU_T1	2	0	-2	0.1	0	-0.1	2.1	2.06	0	0	0	0	0	0
4/22/2024 14:56	45902	AUBU_T1	5	4	-1	0.64	0.73	0.09	0	0	0	0	0	0	0	0
4/22/2024 14:56	11302	EMMA_T1	5	2	-3	0.54	0.75	0.21	0	0	0	0	0	0	0	0
4/22/2024 14:57	51109	CARL_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/22/2024 14:57	51108	CARL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/22/2024 14:57	51102	CARL_T1	16	9	-7	0.48	0.54	0.06	0	0	0	0	0	0	0	0
4/22/2024 14:57	51107	CARL_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/22/2024 14:57	51101	CARL_T1	2	2	0	0.5	0.3	-0.2	-1.16	-1.13	1	1	0	600	600	0
4/22/2024 14:58	45901	AUBU_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 14:58	45902	AUBU_T1	5	4	-1	0.64	0.73	0.09	-0.78	-0.78	1	1	0	600	600	0
4/22/2024 14:58	40101	HUNT_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
4/22/2024 14:59	28703	HAML_T2	3	3	0	0.63	0.8	0.17	0	0	0	0	0	0	0	0
4/22/2024 14:59	28702	HAML_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 14:59	28701	HAML_T2	6	6	0	1.2	1.18	-0.02	0	0	0	0	0	0	0	0
4/22/2024 14:59	28704	HAML_T2	1	1	0	0.8	0.9	0.1	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 14:59	40101	HUNT_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
4/22/2024 15:03	12403	MILF_T1	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
4/22/2024 15:03	42001	MNVL_T2	3	7	4	0.73	0.6	-0.13	-0.03	-0.04	0	0	0	0	0	0
4/22/2024 15:03	12401	MILF_T1	4	4	0	0.6	0.48	-0.12	-0.36	-0.36	0	0	0	0	0	0
4/22/2024 15:03	12402	MILF_T1	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
4/22/2024 15:03	42002	MNVL_T2	1	1	0	5.3	4.7	-0.6	0	0	0	0	0	0	0	0
4/22/2024 15:04	58401	MORO_T1	4	4	0	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
4/22/2024 15:04	62607	ENGL_T1	3	3	0	0.37	0.4	0.03	0	0	0	0	0	0	0	0
4/22/2024 15:04	62602	ENGL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/22/2024 15:04	62605	ENGL_T1	7	6	-1	0.33	0.35	0.02	-1.64	-1.63	0	0	0	0	0	0
4/22/2024 15:04	58402	MORO_T1	0	0	0	0	0	0	-0.13	-0.15	2	2	0	1500	1500	0
4/22/2024 15:05	58401	MORO_T1	4	4	0	0.35	0.28	-0.07	-0.89	-0.89	1	1	0	600	600	0
4/22/2024 15:06	62605	ENGL_T1	7	6	-1	0.33	0.35	0.02	-0.82	-0.81	0	0	0	0	0	0
4/22/2024 15:06	62607	ENGL_T1	3	3	0	0.37	0.4	0.03	0	0	0	0	0	0	0	0
4/22/2024 15:06	62602	ENGL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/22/2024 15:08	62607	ENGL_T1	3	3	0	0.37	0.4	0.03	-1.06	-1.18	1	1	0	300	300	0
4/22/2024 15:08	62605	ENGL_T1	7	6	-1	0.33	0.35	0.02	-0.81	-0.81	0	0	0	0	0	0
4/22/2024 15:08	62602	ENGL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/22/2024 15:09	45902	AUBU_T1	4	4	0	0.7	0.7	0	-0.78	-0.79	1	1	0	600	600	0
4/22/2024 15:12	56503	ROCK_T2	3	3	0	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
4/22/2024 15:12	56504	ROCK_T2	12	9	-3	0.47	0.47	0	0	0	0	0	0	0	0	0
4/22/2024 15:12	61703	ELIZ_T1	7	7	0	0.36	0.33	-0.03	-2.52	-2.56	2	2	0	2100	2100	0
4/22/2024 15:12	61701	ELIZ_T1	2	2	0	3.7	3.65	-0.05	0	0	0	0	0	0	0	0
4/22/2024 15:12	56501	ROCK_T2	6	7	1	0.68	0.5	-0.18	0	0	0	0	0	0	0	0
4/22/2024 15:13	56501	ROCK_T2	6	7	1	0.68	0.5	-0.18	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 15:13	64101	REFR_T1	2	5	3	0.15	0.18	0.03	-0.71	-0.72	0	0	0	0	0	0
4/22/2024 15:13	56504	ROCK_T2	12	9	-3	0.47	0.47	0	0	0	0	0	0	0	0	0
4/22/2024 15:13	56503	ROCK_T2	3	3	0	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
4/22/2024 15:14	45902	AUBU_T1	4	4	0	0.7	0.7	0	-0.78	-0.79	1	1	0	600	600	0
4/22/2024 15:18	56503	ROCK_T2	3	2	-1	0.53	0.75	0.22	0	0	0	0	0	0	0	0
4/22/2024 15:18	13501	MCMI_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
4/22/2024 15:18	56501	ROCK_T2	6	6	0	0.55	0.45	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 15:18	56504	ROCK_T2	6	9	3	0.43	0.5	0.07	0	0	0	0	0	0	0	0
4/22/2024 15:18	13502	MCMI_T1	6	10	4	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
4/22/2024 15:23	60701	BREC_T1	2	3	1	0.45	0.27	-0.18	0.14	0.44	2	2	0	1200	1200	0
4/22/2024 15:24	60701	BREC_T1	2	3	1	0.45	0.27	-0.18	0.07	0.22	1	0	-1	600	0	-600
4/22/2024 15:25	61101	BERK_T5	5	3	-2	0.34	0.2	-0.14	0	0	0	0	0	0	0	0
4/22/2024 15:25	45902	AUBU_T1	4	4	0	0.63	0.65	0.02	-0.79	-0.71	1	1	0	600	600	0
4/22/2024 15:25	60701	BREC_T1	2	3	1	0.45	0.27	-0.18	0.07	0.22	1	0	-1	600	0	-600
4/22/2024 15:25	61102	BERK_T5	4	5	1	0.38	0.26	-0.12	0	0	0	0	0	0	0	0
4/22/2024 15:25	61103	BERK_T5	7	7	0	0.21	0.29	0.08	0.09	0.08	0	0	0	0	0	0
4/22/2024 15:26	61102	BERK_T5	4	5	1	0.38	0.26	-0.12	0	0	0	0	0	0	0	0
4/22/2024 15:26	61103	BERK_T5	7	7	0	0.21	0.29	0.08	0.09	0.08	0	0	0	0	0	0
4/22/2024 15:26	66701	STRA_T1	1	1	0	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
4/22/2024 15:26	61101	BERK_T5	5	3	-2	0.34	0.2	-0.14	0	0	0	0	0	0	0	0
4/22/2024 15:26	66703	STRA_T1	2	31	29	0.2	0.26	0.06	-0.1	-0.19	0	0	0	0	0	0
4/22/2024 15:28	61703	ELIZ_T1	6	6	0	0.35	0.43	0.08	-2.56	-2.49	2	2	0	2100	2100	0
4/22/2024 15:28	61701	ELIZ_T1	2	2	0	3.65	3.5	-0.15	0	0	0	0	0	0	0	0
4/22/2024 15:30	45902	AUBU_T1	3	5	2	0.73	0.54	-0.19	-0.79	-0.71	1	1	0	600	600	0
4/22/2024 15:31	51401	LYKE_T1	0	1	1	0	0.2	0.2	0.28	0.3	0	0	0	0	0	0
4/22/2024 15:31	51402	LYKE_T1	0	22	22	0	0.15	0.15	0	0	0	0	0	0	0	0
4/22/2024 15:33	13103	NHAM_T2	0	0	0	0	0	0	-1.74	-1.74	1	1	0	600	600	0
4/22/2024 15:38	59202	THOM_T1	38	67	29	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/22/2024 15:38	59201	THOM_T1	1	2	1	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
4/22/2024 15:40	45902	AUBU_T1	3	5	2	0.73	0.54	-0.19	-0.71	-0.88	1	1	0	600	600	0
4/22/2024 15:40	51602	DUKE_T2	2	1	-1	0.45	0.6	0.15	0	0	0	0	0	0	0	0
4/22/2024 15:40	67501	WEWI_T1	4	2	-2	0.53	0.95	0.42	-0.53	-0.57	0	0	0	0	0	0
4/22/2024 15:40	67505	WEWI_T1	3	1	-2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/22/2024 15:40	20403	ASHF_T2	8	9	1	0.46	0.49	0.03	0.73	0.79	0	0	0	0	0	0
4/22/2024 15:40	51604	DUKE_T2	6	5	-1	0.33	0.4	0.07	-0.37	-0.36	0	0	0	0	0	0
4/22/2024 15:40	20401	ASHF_T2	3	2	-1	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
4/22/2024 15:41	54505	ENOL_T2	5	5	0	0.68	0.66	-0.02	0	0	0	0	0	0	0	0
4/22/2024 15:41	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 15:41	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 15:41	54504	ENOL_T2	0	0	0	0	0	0	-1.05	-1.1	1	1	0	600	600	0
4/22/2024 15:41	54501	ENOL_T2	7	7	0	0.69	0.57	-0.12	0	0	0	0	0	0	0	0
4/22/2024 15:42	63402	HONY_T2	1	1	0	0.4	1.2	0.8	0	0	0	0	0	0	0	0
4/22/2024 15:42	14203	EALL_T1	4	3	-1	0.63	0.6	-0.03	-0.3	-0.31	1	1	0	1200	1200	0
4/22/2024 15:42	63403	HONY_T2	0	0	0	0	0	0	-0.56	-0.83	1	1	0	600	600	0
4/22/2024 15:42	45902	AUBU_T1	3	5	2	0.73	0.54	-0.19	-0.71	-0.88	1	1	0	600	600	0
4/22/2024 15:42	14201	EALL_T1	3	2	-1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/22/2024 15:45	62602	ENGL_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/22/2024 15:45	62607	ENGL_T1	2	3	1	0.25	0.27	0.02	-1.21	-1.19	1	1	0	300	300	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/22/2024 15:45	62605	ENGL_T1	4	4	0	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
4/22/2024 15:46	26402	INOR_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/22/2024 15:46	26401	INOR_T1	3	3	0	2.33	3.03	0.7	0.81	0.65	0	0	0	0	0	0
4/22/2024 15:46	45902	AUBU_T1	4	5	1	0.63	0.52	-0.11	-0.71	-0.88	1	1	0	600	600	0
4/22/2024 15:47	13103	NHAM_T2	0	0	0	0	0	0	-1.74	-1.73	1	1	0	600	600	0
4/22/2024 15:50	65207	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/22/2024 15:51	47402	PENS_T1	1	2	1	1.2	0.85	-0.35	0	0	0	0	0	0	0	0
4/22/2024 15:51	47401	PENS_T1	3	5	2	0.97	0.68	-0.29	1.05	1.13	0	0	0	0	0	0
4/22/2024 15:51	47403	PENS_T1	2	1	-1	0.4	1	0.6	0	0	0	0	0	0	0	0
4/22/2024 15:51	44601	SALE_T2	0	0	0	0	0	0	0.76	0.05	2	1	-1	900	600	-300
4/22/2024 15:56	45902	AUBU_T1	4	5	1	0.63	0.52	-0.11	-0.88	-0.86	1	1	0	600	600	0
4/22/2024 15:59	64601	LEOL_T1	0	0	0	0	0	0	-1.56	-1.59	1	1	0	1200	1200	0
4/22/2024 16:00	26703	HEML_T1	0	0	0	0	0	0	-0.98	-0.98	1	1	0	600	600	0
4/22/2024 16:00	26704	HEML_T2	0	0	0	0	0	0	-0.86	-0.77	1	1	0	1200	1200	0
4/22/2024 16:00	61102	BERK_T5	2	1	-1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
4/22/2024 16:00	61103	BERK_T5	7	7	0	0.2	0.2	0	0.07	0.08	0	0	0	0	0	0
4/22/2024 16:00	61101	BERK_T5	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/22/2024 16:01	45902	AUBU_T1	5	4	-1	0.5	0.58	0.08	-0.88	-0.86	1	1	0	600	600	0
4/22/2024 16:01	40101	HUNT_T2	0	0	0	0	0	0	-0.53	-0.57	0	0	0	0	0	0
4/22/2024 16:02	40101	HUNT_T2	0	0	0	0	0	0	-0.53	-0.57	0	0	0	0	0	0
4/22/2024 16:04	13103	NHAM_T2	0	0	0	0	0	0	-1.73	-1.74	1	1	0	600	600	0
4/22/2024 16:07	47402	PENS_T1	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
4/22/2024 16:07	47401	PENS_T1	5	3	-2	0.66	0.93	0.27	1.13	1.06	0	0	0	0	0	0
4/22/2024 16:07	47403	PENS_T1	1	5	4	0.7	0.58	-0.12	0	0	0	0	0	0	0	0
4/22/2024 16:12	57402	SPAN_T2	0	0	0	0	0	0	-1.22	-1.21	0	0	0	0	0	0
4/22/2024 16:12	45902	AUBU_T1	5	4	-1	0.5	0.58	0.08	-0.86	-0.86	1	1	0	600	600	0
4/22/2024 16:14	46206	DANV_T2	0	0	0	0	0	0	6.05	6.08	0	0	0	0	0	0
4/22/2024 16:14	15601	NSTR_T2	4	4	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/22/2024 16:14	46203	DANV_T2	97	123	26	0.29	0.36	0.07	0	0	0	0	0	0	0	0
4/22/2024 16:14	15603	NSTR_T2	1	1	0	0.3	0.1	-0.2	-0.64	-0.38	0	0	0	0	0	0
4/22/2024 16:15	57501	LAWN_T3	3	2	-1	0.47	0.55	0.08	-1.64	-1.61	0	0	0	0	0	0
4/22/2024 16:15	57502	LAWN_T3	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/22/2024 16:15	57505	LAWN_T3	14	16	2	0.55	0.41	-0.14	0	0	0	0	0	0	0	0
4/22/2024 16:16	41802	GOCI_T2	21	25	4	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
4/22/2024 16:16	41801	GOCI_T2	328	347	19	0.88	0.91	0.03	0	0	0	0	0	0	0	0
4/22/2024 16:16	46203	DANV_T2	64	124	60	0.31	0.39	0.08	0	0	0	0	0	0	0	0
4/22/2024 16:16	46206	DANV_T2	0	0	0	0	0	0	4.03	4.05	0	0	0	0	0	0
4/22/2024 16:16	40101	HUNT_T2	0	0	0	0	0	0	-1.14	-1.19	0	0	0	0	0	0
4/22/2024 16:17	45902	AUBU_T1	4	3	-1	0.58	0.53	-0.05	-0.86	-0.86	1	1	0	600	600	0
4/22/2024 16:17	41502	FAIR_T2	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
4/22/2024 16:17	40101	HUNT_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
4/22/2024 16:18	57505	LAWN_T3	14	16	2	0.55	0.41	-0.14	0	0	0	0	0	0	0	0
4/22/2024 16:18	57502	LAWN_T3	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/22/2024 16:18	57501	LAWN_T3	3	2	-1	0.47	0.55	0.08	-0.82	-0.81	0	0	0	0	0	0
4/22/2024 16:20	57502	LAWN_T3	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/22/2024 16:20	40603	PIGR_T1	3	2	-1	0.5	0.45	-0.05	-0.68	-0.66	1	1	0	900	900	0
4/22/2024 16:20	57501	LAWN_T3	3	2	-1	0.47	0.55	0.08	-0.82	-0.81	0	0	0	0	0	0
4/22/2024 16:20	40601	PIGR_T1	243	227	-16	0.64	0.51	-0.13	0	0	0	0	0	0	0	0
4/22/2024 16:20	57505	LAWN_T3	14	16	2	0.55	0.41	-0.14	0	0	0	0	0	0	0	0
4/22/2024 16:24	29402	BELT_T1	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
4/22/2024 16:24	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 16:25	51101	CARL_T1	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
4/22/2024 16:25	51102	CARL_T1	66	51	-15	0.23	0.25	0.02	0	0	0	0	0	0	0	0
4/22/2024 16:25	51109	CARL_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/22/2024 16:25	51108	CARL_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/22/2024 16:25	51107	CARL_T1	0	0	0	0	0	0	-0.17	-0.27	0	0	0	0	0	0
4/22/2024 16:27	46001	BERW_T1	0	0	0	0	0	0	1.34	1.31	0	0	0	0	0	0
4/22/2024 16:27	40101	HUNT_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
4/22/2024 16:28	46001	BERW_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
4/22/2024 16:28	40101	HUNT_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
4/22/2024 16:28	45902	AUBU_T1	4	3	-1	0.58	0.53	-0.05	-0.86	-0.85	1	1	0	600	600	0
4/22/2024 16:31	45801	HEGI_T1	0	0	0	0	0	0	-0.27	-0.32	1	1	0	900	900	0
4/22/2024 16:32	57304	MOAL_T2	61	56	-5	0.46	0.33	-0.13	-0.59	-0.59	0	0	0	0	0	0
4/22/2024 16:32	57303	MOAL_T2	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 16:32	57306	MOAL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/22/2024 16:32	46001	BERW_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
4/22/2024 16:33	45902	AUBU_T1	2	3	1	0.75	0.5	-0.25	-0.86	-0.85	1	1	0	600	600	0
4/22/2024 16:33	47104	MARL_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
4/22/2024 16:36	59201	THOM_T1	10	8	-2	0.21	0.25	0.04	0	0	0	0	0	0	0	0
4/22/2024 16:36	59202	THOM_T1	146	221	75	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
4/22/2024 16:36	62605	ENGL_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/22/2024 16:36	62607	ENGL_T1	1	1	0	0.1	0.1	0	-1.19	-1.16	1	1	0	300	300	0
4/22/2024 16:38	10602	BLGL_T2	3	4	1	0.77	0.83	0.06	0.8	0.37	0	0	0	0	0	0
4/22/2024 16:38	59201	THOM_T1	10	8	-2	0.21	0.25	0.04	0	0	0	0	0	0	0	0
4/22/2024 16:38	59202	THOM_T1	146	221	75	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
4/22/2024 16:39	29402	BELT_T1	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
4/22/2024 16:39	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 16:40	59101	WALK_T2	0	0	0	0	0	0	1.3	1.48	0	0	0	0	0	0
4/22/2024 16:40	59102	WALK_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/22/2024 16:42	14204	EALL_T2	0	0	0	0	0	0	-0.76	-0.75	0	0	0	0	0	0
4/22/2024 16:48	51202	MTON_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/22/2024 16:48	51204	MTON_T2	0	0	0	0	0	0	-0.46	-0.46	1	1	0	600	600	0
4/22/2024 16:48	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
4/22/2024 16:51	54602	SUMM_T2	3	9	6	0.1	0.2	0.1	-2.52	-2.49	1	1	0	600	600	0
4/22/2024 16:51	54601	SUMM_T2	11	14	3	0.53	0.44	-0.09	0	0	0	0	0	0	0	0
4/22/2024 16:52	47401	PENS_T1	1	0	-1	0.5	0	-0.5	1.7	1.84	0	0	0	0	0	0
4/22/2024 16:52	47403	PENS_T1	2	2	0	1.25	1.15	-0.1	0	0	0	0	0	0	0	0
4/22/2024 16:53	56802	BENV_T2	124	19	-105	0.23	0.32	0.09	-0.72	-0.71	0	0	0	0	0	0
4/22/2024 16:53	51401	LYKE_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
4/22/2024 16:54	56802	BENV_T2	124	19	-105	0.23	0.32	0.09	-3.6	-3.53	0	0	0	0	0	0
4/22/2024 16:54	16301	ALPA_T1	11	7	-4	0.23	0.17	-0.06	-0.44	-0.47	0	0	0	0	0	0
4/22/2024 16:54	45902	AUBU_T1	3	1	-2	0.5	0.8	0.3	-0.88	-0.9	1	1	0	600	600	0
4/22/2024 16:55	15001	BLMO_T1	3	3	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/22/2024 16:56	56803	BENV_T1	7	7	0	0.61	0.69	0.08	0	0	0	0	0	0	0	0
4/22/2024 16:56	16301	ALPA_T1	11	7	-4	0.23	0.17	-0.06	-0.44	-0.47	0	0	0	0	0	0
4/22/2024 16:56	56801	BENV_T1	32	31	-1	0.61	0.63	0.02	-0.23	-0.25	0	0	0	0	0	0
4/22/2024 16:56	56802	BENV_T2	124	19	-105	0.23	0.32	0.09	-1.44	-1.41	0	0	0	0	0	0
4/22/2024 16:57	56802	BENV_T2	124	19	-105	0.23	0.32	0.09	-2.88	-2.83	0	0	0	0	0	0
4/22/2024 16:59	45902	AUBU_T1	3	1	-2	0.5	0.8	0.3	-0.88	-0.9	1	1	0	600	600	0
4/22/2024 17:08	51204	MTON_T2	0	0	0	0	0	0	-0.49	-0.48	1	1	0	600	600	0
4/22/2024 17:10	45902	AUBU_T1	1	1	0	0.8	0.5	-0.3	-1.8	-1.99	2	2	0	1200	1200	0
4/22/2024 17:10	46001	BERW_T1	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
4/22/2024 17:12	46001	BERW_T1	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
4/22/2024 17:14	47001	HUGH_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
4/22/2024 17:14	40101	HUNT_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
4/22/2024 17:14	47002	HUGH_T2	13	4	-9	0.22	0.3	0.08	0	0	0	0	0	0	0	0
4/22/2024 17:15	45902	AUBU_T1	1	1	0	0.5	0.2	-0.3	-0.9	-0.99	1	1	0	600	600	0
4/22/2024 17:15	47001	HUGH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 17:15	47002	HUGH_T2	4	1	-3	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/22/2024 17:15	40101	HUNT_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
4/22/2024 17:18	46102	MACI_T1	164	161	-3	0.22	0.24	0.02	0.3	0.3	0	0	0	0	0	0
4/22/2024 17:25	45902	AUBU_T1	1	1	0	0.5	0.2	-0.3	-0.99	-1.02	1	1	0	600	600	0
4/22/2024 17:25	62605	ENGL_T1	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
4/22/2024 17:26	45902	AUBU_T1	1	1	0	0.5	0.2	-0.3	-0.99	-1.02	1	1	0	600	600	0
4/22/2024 17:26	46001	BERW_T1	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
4/22/2024 17:26	62607	ENGL_T1	0	0	0	0	0	0	-1.15	-1.16	1	1	0	300	300	0
4/22/2024 17:29	56504	ROCK_T2	4	2	-2	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
4/22/2024 17:29	60802	BUCK_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
4/22/2024 17:29	56501	ROCK_T2	2	2	0	0.45	0.4	-0.05	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 17:30	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
4/22/2024 17:30	56501	ROCK_T2	2	2	0	0.4	0.7	0.3	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 17:30	25503	MADI_T1	170	212	42	0.39	0.37	-0.02	-1.08	-1.06	0	0	0	0	0	0
4/22/2024 17:30	56504	ROCK_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/22/2024 17:31	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
4/22/2024 17:31	45902	AUBU_T1	0	1	1	0	0.2	0.2	-0.99	-1.02	1	1	0	600	600	0
4/22/2024 17:33	58402	MORO_T1	0	2	2	0	1	1	-0.12	-0.09	2	2	0	1500	1500	0
4/22/2024 17:35	56504	ROCK_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/22/2024 17:35	56501	ROCK_T2	2	2	0	0.4	0.7	0.3	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 17:35	65207	PRIN_T4	0	2	2	0	0.1	0.1	0	0	1	1	0	1200	1200	0
4/22/2024 17:36	42201	WEN_T2	1	1	0	0.3	0.2	-0.1	0.38	0.39	0	0	0	0	0	0
4/22/2024 17:46	54505	ENOL_T2	1	1	0	0.7	0.7	0	-1.39	-1.38	1	1	0	600	600	0
4/22/2024 17:46	54502	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/22/2024 17:48	63305	GREE_T1	0	0	0	0	0	0	-1.32	-1.13	0	0	0	0	0	0
4/22/2024 17:49	48302	ORWI_T2	2	2	0	1.8	2.05	0.25	-0.08	-0.06	0	0	0	0	0	0
4/22/2024 17:49	57106	SPHI_T2	2	2	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
4/22/2024 17:49	57101	SPHI_T2	6	6	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
4/22/2024 17:49	57104	SPHI_T2	2	3	1	4.95	3.2	-1.75	-1.12	-1.08	0	0	0	0	0	0
4/22/2024 17:49	45501	DERR_T2	1	1	0	1	0.9	-0.1	-0.37	-0.37	2	2	0	1800	1800	0
4/22/2024 17:49	45701	LIND_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
4/22/2024 17:49	45702	LIND_T2	1	1	0	1.8	2.2	0.4	0	0	0	0	0	0	0	0
4/22/2024 18:25	45501	DERR_T2	1	1	0	0.9	0.9	0	-0.49	-0.46	2	2	0	1800	1800	0
4/22/2024 18:27	57101	SPHI_T2	6	6	0	0.45	0.93	0.48	0.26	0.28	0	0	0	0	0	0
4/22/2024 18:27	57106	SPHI_T2	2	2	0	1	1.35	0.35	0	0	0	0	0	0	0	0
4/22/2024 18:27	57104	SPHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 18:28	63305	GREE_T1	0	0	0	0	0	0	-1.22	-1.24	0	0	0	0	0	0
4/22/2024 18:28	51204	MTON_T2	0	0	0	0	0	0	-0.49	-0.51	1	1	0	600	600	0
4/22/2024 18:29	60502	NMAN_T2	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
4/22/2024 18:29	60501	NMAN_T2	3	3	0	3.8	4.4	0.6	0	0	0	0	0	0	0	0
4/22/2024 18:32	49804	UNIV_T1	2	2	0	0.15	0.25	0.1	0.44	0.39	0	0	0	0	0	0
4/22/2024 18:33	58402	MORO_T1	1	3	2	1.3	0.4	-0.9	0	0	0	0	0	0	0	0
4/22/2024 18:33	50503	MECH_T1	5	19	14	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/22/2024 18:33	50506	MECH_T1	54	262	208	0.11	0.13	0.02	-0.38	-0.36	0	0	0	0	0	0
4/22/2024 18:33	67605	WARW_T1	26	32	6	0.72	0.62	-0.1	-1.15	-1.17	0	0	0	0	0	0
4/22/2024 18:33	50505	MECH_T1	8	31	23	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
4/22/2024 18:33	50501	MECH_T1	4	4	0	1.2	1.38	0.18	0	0	0	0	0	0	0	0
4/22/2024 18:33	50504	MECH_T1	53	163	110	0.14	0.15	0.01	0	0	0	0	0	0	0	0
4/22/2024 18:33	50502	MECH_T1	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
4/22/2024 18:33	58401	MORO_T1	0	0	0	0	0	0	-1.12	-1.14	1	1	0	600	600	0
4/22/2024 18:34	50506	MECH_T1	54	262	208	0.11	0.13	0.02	-0.38	-0.36	0	0	0	0	0	0
4/22/2024 18:34	50505	MECH_T1	8	31	23	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
4/22/2024 18:34	50504	MECH_T1	53	163	110	0.14	0.15	0.01	0	0	0	0	0	0	0	0
4/22/2024 18:34	50503	MECH_T1	5	19	14	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/22/2024 18:34	50502	MECH_T1	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/22/2024 18:34	50501	MECH_T1	4	4	0	1.2	1.38	0.18	0	0	0	0	0	0	0	0
4/22/2024 18:35	65903	SAKR_T2	0	0	0	0	0	0	-1.29	-1.26	3	3	0	2100	2100	0
4/22/2024 18:35	65901	SAKR_T2	1	1	0	8.9	9.3	0.4	0	0	0	0	0	0	0	0
4/22/2024 18:37	43102	SMIL_T2	6	7	1	0.62	0.81	0.19	-0.32	-0.31	0	0	0	0	0	0
4/22/2024 18:37	43104	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 18:37	43105	SMIL_T2	20	37	17	0.23	0.28	0.05	0	0	0	0	0	0	0	0
4/22/2024 18:37	43103	SMIL_T2	14	15	1	0.56	0.65	0.09	0	0	0	0	0	0	0	0
4/22/2024 18:44	10702	CATA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/22/2024 18:44	10705	CATA_T2	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
4/22/2024 18:44	47002	HUGH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 18:49	64902	MILL_T2	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
4/22/2024 18:50	48302	ORWI_T2	2	2	0	2	2.05	0.05	-0.07	-0.09	0	0	0	0	0	0
4/22/2024 18:55	67505	WEWI_T1	0	1	1	0	0	0	-0.28	-0.28	1	1	0	900	900	0
4/22/2024 18:57	45501	DERR_T2	1	1	0	0.4	0.6	0.2	-0.44	-0.43	2	2	0	1800	1800	0
4/22/2024 18:57	45902	AUBU_T1	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
4/22/2024 18:58	45501	DERR_T2	1	1	0	0.4	0.6	0.2	-0.44	-0.43	2	2	0	1800	1800	0
4/22/2024 18:59	63804	HEMP_T1	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
4/22/2024 18:59	63801	HEMP_T1	0	0	0	0	0	0	0.11	-0.26	0	0	0	0	0	0
4/22/2024 19:00	61102	BERK_T5	1	1	0	0.3	0.3	0	0.63	0.61	1	1	0	300	300	0
4/22/2024 19:02	45902	AUBU_T1	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
4/22/2024 19:02	52006	LING_T2	3	3	0	1.13	1.17	0.04	0	0	0	0	0	0	0	0
4/22/2024 19:02	52002	LING_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
4/22/2024 19:02	52004	LING_T2	0	1	1	0	0.3	0.3	0.12	0.1	0	0	0	0	0	0
4/22/2024 19:03	47103	MARL_T2	1	2	1	0.1	0.1	0	-0.59	-0.63	0	0	0	0	0	0
4/22/2024 19:03	47102	MARL_T2	5	4	-1	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/22/2024 19:06	47103	MARL_T2	1	2	1	0.1	0.1	0	-0.59	-0.63	0	0	0	0	0	0
4/22/2024 19:06	47102	MARL_T2	5	4	-1	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/22/2024 19:11	49804	UNIV_T1	1	0	-1	0.3	0.2	-0.1	0.41	0.41	0	0	0	0	0	0
4/22/2024 19:13	45902	AUBU_T1	0	0	0	0	0	0	-1.1	-1.12	1	1	0	600	600	0
4/22/2024 19:13	14203	EALL_T1	0	0	0	0	0	0	-0.48	-0.33	1	1	0	1200	1200	0
4/22/2024 19:15	46801	HEPB_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/22/2024 19:15	46803	HEPB_T2	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
4/22/2024 19:16	46502	LOHA_T1	0	0	0	0	0	0	-1.43	-1.38	1	1	0	1200	1200	0
4/22/2024 19:16	46504	LOHA_T1	4	8	4	0.48	0.28	-0.2	0	0	0	0	0	0	0	0
4/22/2024 19:18	45902	AUBU_T1	0	3	3	0	0.1	0.1	-1.1	-1.12	1	1	0	600	600	0
4/22/2024 19:30	14203	EALL_T1	0	0	0	0	0	0	-0.33	-0.43	1	1	0	1200	1200	0
4/22/2024 19:34	52501	PROG_T1	0	0	0	0	0	0	0.34	0.36	1	1	0	300	300	0
4/22/2024 19:34	55002	NEWP_T1	6	5	-1	0.95	0.64	-0.31	0	0	0	0	0	0	0	0
4/22/2024 19:34	55001	NEWP_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
4/22/2024 19:37	59101	WALK_T2	0	0	0	0	0	0	1.36	1.3	0	0	0	0	0	0
4/22/2024 20:04	43202	MVIL_T2	59	60	1	0.65	0.28	-0.37	-0.73	-0.73	0	0	0	0	0	0
4/22/2024 20:06	43201	MVIL_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
4/22/2024 20:06	43202	MVIL_T2	59	60	1	0.65	0.28	-0.37	0	0	0	0	0	0	0	0
4/22/2024 20:07	66303	MCGO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 20:07	66302	MCGO_T2	0	0	0	0	0	0	-1.48	-1.38	0	0	0	0	0	0
4/22/2024 20:09	66303	MCGO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 20:09	66302	MCGO_T2	0	0	0	0	0	0	-0.46	-1.08	0	1	1	0	600	600
4/22/2024 20:09	55002	NEWP_T1	5	5	0	0.58	0.28	-0.3	-0.29	-0.28	0	0	0	0	0	0
4/22/2024 20:14	29402	BELT_T1	1	1	0	6.7	7.1	0.4	0	0	0	0	0	0	0	0
4/22/2024 20:14	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/22/2024 20:16	51102	CARL_T1	39	117	78	0.15	0.26	0.11	0	0	0	0	0	0	0	0
4/22/2024 20:16	51108	CARL_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
4/22/2024 20:19	42201	SHEN_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
4/22/2024 20:25	66505	SMAN_T2	3	3	0	0.73	1.13	0.4	0	0	0	0	0	0	0	0
4/22/2024 20:25	66503	SMAN_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
4/22/2024 20:26	53601	DALM_T2	1	1	0	0.4	0.7	0.3	-0.23	-0.17	0	0	0	0	0	0
4/22/2024 20:29	10705	CATA_T2	0	0	0	0	0	0	-0.07	-0.02	0	0	0	0	0	0
4/22/2024 20:29	10702	CATA_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/22/2024 20:31	64902	MILL_T2	0	0	0	0	0	0	0.16	0.19	0	0	0	0	0	0
4/22/2024 20:33	50102	HARR_T3	9	12	3	0.12	0.24	0.12	0	0	0	0	0	0	0	0
4/22/2024 20:33	50105	HARR_T3	6	6	0	5.93	5.73	-0.2	0	0	0	0	0	0	0	0
4/22/2024 20:33	50201	HARR_T3	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/22/2024 20:33	50202	HARR_T3	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/22/2024 20:33	50103	HARR_T3	2	2	0	0.95	1.3	0.35	-1.07	-1.01	1	1	0	1200	1200	0
4/22/2024 20:35	57403	SPAN_T1	39	80	41	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
4/22/2024 20:35	57401	SPAN_T1	2	2	0	0.45	0.7	0.25	-0.34	-0.37	1	1	0	600	600	0
4/22/2024 20:39	51104	CARL_T1	1	1	0	2.2	0	-2.2	0	0	0	0	0	0	0	0
4/22/2024 20:39	51102	CARL_T1	57	140	83	0.19	0.29	0.1	0	0	0	0	0	0	0	0
4/22/2024 20:39	51101	CARL_T1	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
4/22/2024 20:39	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 20:41	59101	WALK_T2	0	0	0	0	0	0	1.33	1.32	0	0	0	0	0	0
4/22/2024 20:43	59101	WALK_T2	0	0	0	0	0	0	1.33	1.32	0	0	0	0	0	0
4/22/2024 20:46	51201	MTON_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
4/22/2024 20:48	50504	MECH_T1	206	555	349	0.18	0.3	0.12	0	0	0	0	0	0	0	0
4/22/2024 20:48	50505	MECH_T1	58	515	457	0.14	0.2	0.06	0	0	0	0	0	0	0	0
4/22/2024 20:48	50501	MECH_T1	32	205	173	0.38	0.25	-0.13	-0.31	-0.36	0	0	0	0	0	0
4/22/2024 20:48	50502	MECH_T1	1	19	18	3.4	0.34	-3.06	0	0	0	0	0	0	0	0
4/22/2024 20:48	50503	MECH_T1	50	163	113	0.13	0.31	0.18	0	0	0	0	0	0	0	0
4/22/2024 20:48	50506	MECH_T1	294	1125	831	0.14	0.26	0.12	0	0	0	0	0	0	0	0
4/22/2024 20:48	40101	HUNT_T2	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
4/22/2024 20:54	15201	SFAR_T1	0	0	0	0	0	0	-0.87	-0.9	2	2	0	1800	1800	0
4/22/2024 20:55	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.34	0	0	0	0	0	0
4/22/2024 20:56	62101	ELAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/22/2024 20:56	62103	ELAN_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/22/2024 20:56	62102	ELAN_T1	0	0	0	0	0	0	0.58	0.53	0	0	0	0	0	0
4/22/2024 20:56	62106	ELAN_T1	6	8	2	0.23	0.19	-0.04	0	0	0	0	0	0	0	0
4/22/2024 20:56	62105	ELAN_T1	61	107	46	0.12	0.15	0.03	0	0	0	0	0	0	0	0
4/22/2024 20:56	67703	WERN_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
4/22/2024 20:58	11603	CEAL_T1	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
4/22/2024 20:58	11601	CEAL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 20:59	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/22/2024 21:08	14601	SWHI_T1	0	0	0	0	0	0	-1.01	-1.03	0	0	0	0	0	0
4/22/2024 21:11	67502	WEWI_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
4/22/2024 21:12	67605	WARW_T1	23	32	9	0.47	0.54	0.07	0	0	0	0	0	0	0	0
4/22/2024 21:12	67604	WARW_T1	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
4/22/2024 21:13	67605	WARW_T1	23	32	9	0.47	0.54	0.07	-1.01	-1.06	0	0	0	0	0	0
4/22/2024 21:13	67501	WEWI_T1	0	0	0	0	0	0	-0.74	-0.77	0	0	0	0	0	0
4/22/2024 21:14	67603	WARW_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
4/22/2024 21:14	67605	WARW_T1	23	32	9	0.47	0.54	0.07	0	0	0	0	0	0	0	0
4/22/2024 21:15	67605	WARW_T1	32	34	2	0.51	0.59	0.08	-1.01	-1.06	0	0	0	0	0	0
4/22/2024 21:17	67605	WARW_T1	32	34	2	0.51	0.59	0.08	-1.01	-1.06	0	0	0	0	0	0
4/22/2024 21:22	67803	WLAN_T1	1	108	107	0.1	0.13	0.03	-1.86	-1.86	0	0	0	0	0	0
4/22/2024 21:22	67801	WLAN_T1	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
4/22/2024 21:22	67804	WLAN_T1	4	62	58	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/22/2024 21:22	67802	WLAN_T1	15	26	11	0.17	0.25	0.08	0	0	0	0	0	0	0	0
4/22/2024 21:22	67805	WLAN_T1	466	523	57	0.34	0.46	0.12	0	0	0	0	0	0	0	0
4/22/2024 21:23	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:25	61801	EELI_T2	0	0	0	0	0	0	-0.98	-0.93	0	0	0	0	0	0
4/22/2024 21:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:33	42002	MNVL_T2	1	1	0	2.7	2.6	-0.1	0.04	0.03	0	0	0	0	0	0
4/22/2024 21:34	45902	AUBU_T1	8	49	41	0.13	0.19	0.06	0	0	0	0	0	0	0	0
4/22/2024 21:34	45901	AUBU_T1	0	0	0	0	0	0	2.09	1.98	0	0	0	0	0	0
4/22/2024 21:35	12606	MACA_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
4/22/2024 21:35	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:37	54201	PENN_T1	11	11	0	0.86	1.04	0.18	0	0	0	0	0	0	0	0
4/22/2024 21:37	54203	PENN_T1	18	18	0	1.35	1.57	0.22	-0.09	-0.08	0	0	0	0	0	0
4/22/2024 21:37	15203	SFAR_T2	0	0	0	0	0	0	-1.39	-1.39	0	0	0	0	0	0
4/22/2024 21:39	15204	SFAR_T2	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
4/22/2024 21:42	13805	SALI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 21:42	13807	SALI_T1	0	1	1	0	0.2	0.2	0.12	0.12	0	0	0	0	0	0
4/22/2024 21:43	61801	EELI_T2	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
4/22/2024 21:43	62605	ENGL_T1	0	4	4	0	0.1	0.1	-0.9	-0.91	0	0	0	0	0	0
4/22/2024 21:44	62605	ENGL_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 21:44	17002	RIRO_T2	274	433	159	0.23	0.31	0.08	0.3	0.3	0	0	0	0	0	0
4/22/2024 21:44	62607	ENGL_T1	0	0	0	0	0	0	-1.22	-0.86	1	0	-1	300	0	-300
4/22/2024 21:47	56802	BENV_T2	225	313	88	0.34	0.44	0.1	-0.83	-0.86	0	0	0	0	0	0
4/22/2024 21:48	62605	ENGL_T1	0	4	4	0	0.1	0.1	-0.9	-0.91	0	0	0	0	0	0
4/22/2024 21:48	47104	MARL_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
4/22/2024 21:48	13501	MCMI_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
4/22/2024 21:48	13502	MCMI_T1	3	4	1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
4/22/2024 21:48	10602	BLGL_T2	0	0	0	0	0	0	-0.01	0.17	0	0	0	0	0	0
4/22/2024 21:49	64901	MILL_T1	0	23	23	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 21:49	13805	SALI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 21:49	26704	HEML_T2	0	9	9	0	0.1	0.1	-0.97	-0.98	1	1	0	1200	1200	0
4/22/2024 21:49	61303	EARL_T1	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
4/22/2024 21:49	13807	SALI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 21:49	20401	ASHF_T2	2	3	1	0.15	0.13	-0.02	-0.43	-0.46	0	0	0	0	0	0
4/22/2024 21:49	20402	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:49	13803	SALI_T1	0	0	0	0	0	0	-0.19	-0.34	2	2	0	2400	2400	0
4/22/2024 21:49	64904	MILL_T1	0	2	2	0	0.1	0.1	0.43	0.41	0	0	0	0	0	0
4/22/2024 21:49	20403	ASHF_T2	36	39	3	0.78	0.83	0.05	0	0	0	0	0	0	0	0
4/22/2024 21:49	26703	HEML_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	600	600	0
4/22/2024 21:50	64302	LINC_T2	0	0	0	0	0	0	0.81	0.83	0	0	0	0	0	0
4/22/2024 21:50	13501	MCMI_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
4/22/2024 21:50	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:50	60803	BUCK_T1	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
4/22/2024 21:50	41301	FISH_T1	17	28	11	0.39	0.3	-0.09	0	0	0	0	0	0	0	0
4/22/2024 21:50	51202	MTON_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
4/22/2024 21:50	29401	BELT_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
4/22/2024 21:50	13904	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:50	67502	WEWI_T2	0	182	182	0	0.23	0.23	-0.57	-0.56	0	0	0	0	0	0
4/22/2024 21:50	65503	MOJO_T2	15	29	14	0.27	0.41	0.14	-0.67	-0.66	0	0	0	0	0	0
4/22/2024 21:50	13502	MCMI_T1	3	4	1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
4/22/2024 21:50	41305	FISH_T1	6	5	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/22/2024 21:50	41303	FISH_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
4/22/2024 21:50	45902	AUBU_T1	49	0	-49	0.19	0	-0.19	-1.17	-0.59	1	0	-1	600	0	-600
4/22/2024 21:50	29402	BELT_T1	1	1	0	7.4	7	-0.4	0	0	0	0	0	0	0	0
4/22/2024 21:50	15203	SFAR_T2	0	0	0	0	0	0	-1.39	-1.41	0	0	0	0	0	0
4/22/2024 21:50	65502	MOJO_T2	0	37	37	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 21:50	67702	WERN_T2	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
4/22/2024 21:51	20402	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:51	13303	ORVI_T1	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
4/22/2024 21:51	67702	WERN_T2	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/22/2024 21:51	20403	ASHF_T2	36	39	3	0.78	0.83	0.05	0.11	0.06	0	0	0	0	0	0
4/22/2024 21:51	17401	FOHI_T1	0	0	0	0	0	0	-1.07	-1.06	0	0	0	0	0	0
4/22/2024 21:51	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 21:51	45902	AUBU_T1	49	0	-49	0.19	0	-0.19	-1.17	-0.59	1	0	-1	600	0	-600
4/22/2024 21:51	20401	ASHF_T2	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
4/22/2024 21:52	57101	SPHI_T2	6	6	0	1.33	0.93	-0.4	0.29	0.25	0	0	0	0	0	0
4/22/2024 21:52	66504	SMAN_T2	0	0	0	0	0	0	-1.56	-1.29	0	0	0	0	0	0
4/22/2024 21:52	25402	LAHA_T2	1	1	0	1.6	0.4	-1.2	-0.9	-0.91	0	0	0	0	0	0
4/22/2024 21:52	57104	SPHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:52	66505	SMAN_T2	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
4/22/2024 21:52	56501	ROCK_T2	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
4/22/2024 21:52	57106	SPHI_T2	2	2	0	1.55	1.45	-0.1	0	0	0	0	0	0	0	0
4/22/2024 21:52	40101	HUNT_T2	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
4/22/2024 21:52	25404	LAHA_T2	15	7	-8	0.1	0.1	0	0	0	0	0	0	0	0	0
4/22/2024 21:52	65702	RVIL_T2	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
4/22/2024 21:52	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:53	40301	TAMA_T3	1	2	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:53	24105	EHAZ_T1	4	5	1	6.1	5.98	-0.12	0	0	0	0	0	0	0	0
4/22/2024 21:53	57003	WHHI_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/22/2024 21:53	41301	FISH_T1	17	28	11	0.39	0.3	-0.09	-0.07	-0.1	0	0	0	0	0	0
4/22/2024 21:53	65702	RVIL_T2	0	0	0	0	0	0	-0.74	-0.77	0	0	0	0	0	0
4/22/2024 21:53	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 21:53	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 21:53	51401	LYKE_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
4/22/2024 21:53	58401	MORO_T1	0	0	0	0	0	0	-1.3	-1.29	1	1	0	600	600	0
4/22/2024 21:53	40602	PIGR_T1	0	1	1	0	0	0	0.49	0.49	0	0	0	0	0	0
4/22/2024 21:53	16401	MOPO_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
4/22/2024 21:53	56603	HAMP_T1	0	0	0	0	0	0	-1.25	-1.19	0	0	0	0	0	0
4/22/2024 21:53	67502	WEWI_T2	0	182	182	0	0.23	0.23	-0.56	-0.52	0	0	0	0	0	0
4/22/2024 21:53	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.22	0	0	0	0	0	0
4/22/2024 21:53	40302	TAMA_T3	28	33	5	0.55	0.56	0.01	0	0	0	0	0	0	0	0
4/22/2024 21:53	40303	TAMA_T3	6	7	1	0.27	0.4	0.13	2.61	2.48	0	0	0	0	0	0
4/22/2024 21:53	24102	EHAZ_T1	3	6	3	0.53	1.8	1.27	0.26	0.26	0	0	0	0	0	0
4/22/2024 21:53	51402	LYKE_T1	1	67	66	0.1	0.17	0.07	0	0	0	0	0	0	0	0
4/22/2024 21:53	63402	HONY_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
4/22/2024 21:53	57006	WHHI_T2	39	80	41	0.15	0.2	0.05	1.41	1.48	0	0	0	0	0	0
4/22/2024 21:53	61303	EARL_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
4/22/2024 21:53	29402	BELT_T1	1	1	0	7.4	7	-0.4	0	0	0	0	0	0	0	0
4/22/2024 21:53	41305	FISH_T1	6	5	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/22/2024 21:53	12701	MACU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:53	40601	PIGR_T1	241	120	-121	0.55	0.21	-0.34	0	0	0	0	0	0	0	0
4/22/2024 21:53	63305	GREE_T1	3	12	9	0.1	0.22	0.12	-1.3	-1.27	0	0	0	0	0	0
4/22/2024 21:53	66505	SMAN_T2	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
4/22/2024 21:53	63403	HONY_T2	0	0	0	0	0	0	-0.74	-0.75	1	1	0	600	600	0
4/22/2024 21:54	45901	AUBU_T1	0	0	0	0	0	0	1.86	1.54	0	0	0	0	0	0
4/22/2024 21:54	51204	MTON_T2	0	0	0	0	0	0	-0.5	-0.51	1	1	0	600	600	0
4/22/2024 21:54	50105	HARR_T3	6	6	0	6.15	5.93	-0.22	0	0	0	0	0	0	0	0
4/22/2024 21:54	65702	RVIL_T2	0	0	0	0	0	0	-0.74	-0.77	0	0	0	0	0	0
4/22/2024 21:54	12002	HATF_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
4/22/2024 21:54	12801	MICK_T1	0	0	0	0	0	0	-0.32	-0.38	1	1	0	600	600	0
4/22/2024 21:54	45902	AUBU_T1	49	0	-49	0.19	0	-0.19	-1.77	-1.65	3	0	-3	1800	0	-1800
4/22/2024 21:54	57004	WHHI_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
4/22/2024 21:54	14404	SSLA_T1	2	4	2	3.5	2.43	-1.07	0	0	0	0	0	0	0	0
4/22/2024 21:54	29402	BELT_T1	1	1	0	7.4	7	-0.4	0	0	0	0	0	0	0	0
4/22/2024 21:54	59101	WALK_T2	0	0	0	0	0	0	1.31	1.08	0	0	0	0	0	0
4/22/2024 21:54	46002	BERW_T2	0	0	0	0	0	0	-0.23	-0.27	0	0	0	0	0	0
4/22/2024 21:54	57003	WHHI_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/22/2024 21:54	66703	STRA_T1	47	180	133	0.27	0.29	0.02	-0.46	-0.47	0	0	0	0	0	0
4/22/2024 21:54	65503	MOJO_T2	15	29	14	0.27	0.41	0.14	-0.66	-0.73	0	0	0	0	0	0
4/22/2024 21:54	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:54	50201	HARR_T3	2	2	0	5.1	5.15	0.05	0	0	0	0	0	0	0	0
4/22/2024 21:54	24901	WHHA_T1	17	15	-2	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
4/22/2024 21:54	14203	EALL_T1	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
4/22/2024 21:54	66503	SMAN_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
4/22/2024 21:54	64702	LITI_T2	0	0	0	0	0	0	-0.77	-0.84	0	0	0	0	0	0
4/22/2024 21:54	13901	SEID_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
4/22/2024 21:54	12807	MICK_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/22/2024 21:54	14402	SSLA_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
4/22/2024 21:54	12001	HATF_T1	0	0	0	0	0	0	0.88	-0.49	1	1	0	600	600	0
4/22/2024 21:54	50103	HARR_T3	2	2	0	0.9	1.2	0.3	-2.1	-2.13	2	2	0	2400	2400	0
4/22/2024 21:54	66505	SMAN_T2	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
4/22/2024 21:54	57002	WHHI_T2	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
4/22/2024 21:54	50202	HARR_T3	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/22/2024 21:54	24902	WHHA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:54	24701	FLND_T2	1	9	8	0.2	0.57	0.37	0	0	0	0	0	0	0	0
4/22/2024 21:54	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
4/22/2024 21:54	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:54	50102	HARR_T3	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
4/22/2024 21:54	28704	HAML_T2	4	5	1	0.35	0.48	0.13	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 21:54	47002	HUGH_T2	8	9	1	0.11	0.13	0.02	0	0	0	0	0	0	0	0
4/22/2024 21:54	65502	MOJO_T2	0	37	37	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 21:54	40302	TAMA_T3	28	33	5	0.55	0.56	0.01	0.33	0.3	0	0	0	0	0	0
4/22/2024 21:54	47001	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:54	51004	NHAR_T1	13	13	0	1.28	1.15	-0.13	-0.46	-0.49	0	0	0	0	0	0
4/22/2024 21:54	56501	ROCK_T2	2	2	0	0.55	0.75	0.2	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 21:54	51002	NHAR_T1	1	1	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
4/22/2024 21:54	54504	ENOL_T2	0	0	0	0	0	0	-1	-1.01	1	1	0	600	600	0
4/22/2024 21:54	60101	COCA_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
4/22/2024 21:54	47101	MARL_T1	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
4/22/2024 21:54	28703	HAML_T2	3	3	0	0.7	0.93	0.23	0	0	0	0	0	0	0	0
4/22/2024 21:54	51003	NHAR_T1	3	6	3	0.17	0.28	0.11	0	0	0	0	0	0	0	0
4/22/2024 21:54	12803	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:54	63602	LETO_T1	0	0	0	0	0	0	-0.47	-0.69	0	0	0	0	0	0
4/22/2024 21:54	62607	ENGL_T1	0	0	0	0	0	0	-0.86	-0.89	0	0	0	0	0	0
4/22/2024 21:54	13302	ORVI_T2	0	0	0	0	0	0	1.37	1.26	0	0	0	0	0	0
4/22/2024 21:54	62605	ENGL_T1	0	4	4	0	0.1	0.1	-0.91	-0.92	0	0	0	0	0	0
4/22/2024 21:54	40303	TAMA_T3	6	7	1	0.27	0.4	0.13	0	0	0	0	0	0	0	0
4/22/2024 21:54	54502	ENOL_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/22/2024 21:54	40301	TAMA_T3	1	2	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:54	61506	EPET_T2	0	0	0	0	0	0	-0.22	-1.26	0	1	1	0	900	900
4/22/2024 21:54	24702	FLND_T2	0	0	0	0	0	0	1.05	1.09	0	0	0	0	0	0
4/22/2024 21:54	56802	BENV_T2	225	313	88	0.34	0.44	0.1	-0.86	-0.86	0	0	0	0	0	0
4/22/2024 21:54	14403	SSLA_T1	0	0	0	0	0	0	0.57	0.51	0	0	0	0	0	0
4/22/2024 21:54	54501	ENOL_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
4/22/2024 21:54	64902	MILL_T2	0	0	0	0	0	0	0.17	0.11	0	0	0	0	0	0
4/22/2024 21:54	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 21:54	13904	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:54	57006	WHHI_T2	39	80	41	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/22/2024 21:54	16402	MOPO_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 21:54	11303	EMMA_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
4/22/2024 21:55	44601	SALE_T2	1	1	0	0.6	0.9	0.3	-0.23	-0.2	0	0	0	0	0	0
4/22/2024 21:55	13805	SALI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 21:55	64702	LITI_T2	0	0	0	0	0	0	-0.77	-0.84	0	0	0	0	0	0
4/22/2024 21:55	57501	LAWN_T3	0	0	0	0	0	0	-1.8	-1.84	0	0	0	0	0	0
4/22/2024 21:55	13807	SALI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 21:55	40602	PIGR_T1	0	1	1	0	0	0	0.97	0.98	0	0	0	0	0	0
4/22/2024 21:55	13701	SCHN_T2	0	0	0	0	0	0	-0.13	-0.13	1	1	0	600	600	0
4/22/2024 21:55	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:55	64201	KINZ_T1	1	1	0	0.3	0.8	0.5	0.3	0.19	1	0	-1	300	0	-300
4/22/2024 21:55	60502	NMAN_T2	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
4/22/2024 21:55	60501	NMAN_T2	3	3	0	5	5	0	0	0	0	0	0	0	0	0
4/22/2024 21:55	46302	ROHR_T1	5	93	88	2	0.27	-1.73	0.14	0.12	0	0	0	0	0	0
4/22/2024 21:55	16102	BING_T2	9	13	4	0.18	0.27	0.09	-1.1	0.18	1	0	-1	1200	0	-1200
4/22/2024 21:55	13704	SCHN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 21:55	64202	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/22/2024 21:55	65207	PRIN_T4	172	8	-164	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
4/22/2024 21:55	61703	ELIZ_T1	0	0	0	0	0	0	-2.63	-2.54	2	2	0	2100	2100	0
4/22/2024 21:55	61102	BERK_T5	0	0	0	0	0	0	0.31	0.23	1	1	0	300	300	0
4/22/2024 21:55	51104	CARL_T1	1	1	0	8.1	2.9	-5.2	0	0	0	0	0	0	0	0
4/22/2024 21:55	13302	ORVI_T2	0	0	0	0	0	0	1.37	1.26	0	0	0	0	0	0
4/22/2024 21:55	62605	ENGL_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 21:55	64204	KINZ_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
4/22/2024 21:55	65205	PRIN_T1	1	1	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
4/22/2024 21:55	13606	RICH_T2	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
4/22/2024 21:55	57203	ROSS_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
4/22/2024 21:55	40601	PIGR_T1	241	120	-121	0.55	0.21	-0.34	0	0	0	0	0	0	0	0
4/22/2024 21:55	46301	ROHR_T1	121	210	89	0.25	0.35	0.1	0	0	0	0	0	0	0	0
4/22/2024 21:55	67702	WERN_T2	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
4/22/2024 21:55	61701	ELIZ_T1	1	1	0	5.5	5.8	0.3	0	0	0	0	0	0	0	0
4/22/2024 21:55	57401	SPAN_T1	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
4/22/2024 21:55	14502	SCHO_T1	0	1	1	0	0	0	0.2	0.2	0	0	0	0	0	0
4/22/2024 21:55	51102	CARL_T1	52	87	35	0.14	0.21	0.07	0	0	0	0	0	0	0	0
4/22/2024 21:55	62607	ENGL_T1	0	0	0	0	0	0	-0.86	-0.89	0	0	0	0	0	0
4/22/2024 21:55	51101	CARL_T1	0	0	0	0	0	0	-0.77	-0.86	0	0	0	0	0	0
4/22/2024 21:55	57506	LAWN_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:55	15001	BLMO_T1	4	4	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/22/2024 21:55	65206	PRIN_T4	51	15	-36	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
4/22/2024 21:55	60902	DONG_T2	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
4/22/2024 21:55	13803	SALI_T1	0	0	0	0	0	0	-0.34	-0.24	2	2	0	2400	2400	0
4/22/2024 21:55	57403	SPAN_T1	54	104	50	0.28	0.29	0.01	-0.08	-0.07	0	0	0	0	0	0
4/22/2024 21:55	27502	WEIS_T2	0	1	1	0	0	0	-0.53	-0.52	0	0	0	0	0	0
4/22/2024 21:55	57205	ROSS_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
4/22/2024 21:55	13601	RICH_T2	0	0	0	0	0	0	-0.1	-0.13	1	1	0	600	600	0
4/22/2024 21:55	57505	LAWN_T3	6	11	5	0.23	0.37	0.14	0	0	0	0	0	0	0	0
4/22/2024 21:56	47001	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:56	64902	MILL_T2	0	0	0	0	0	0	0.17	0.11	0	0	0	0	0	0
4/22/2024 21:56	13103	NHAM_T2	0	0	0	0	0	0	-1.82	-1.83	1	1	0	600	600	0
4/22/2024 21:56	41202	KENM_T2	0	1	1	0	0.5	0.5	0.43	0.44	0	0	0	0	0	0
4/22/2024 21:56	50701	SMEC_T1	3	13	10	0.1	0.13	0.03	0.04	-0.02	0	0	0	0	0	0
4/22/2024 21:56	15001	BLMO_T1	4	4	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/22/2024 21:56	57304	MOAL_T2	48	62	14	0.38	0.52	0.14	0	0	0	0	0	0	0	0
4/22/2024 21:56	46504	LOHA_T1	15	30	15	0.25	0.3	0.05	0	0	0	0	0	0	0	0
4/22/2024 21:56	43103	SMIL_T2	22	22	0	1.25	1.29	0.04	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/22/2024 21:56	61304	EARL_T1	0	0	0	0	0	0	-1.11	-1.13	1	1	0	600	600	0
4/22/2024 21:56	14204	EALL_T2	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
4/22/2024 21:56	16301	ALPA_T1	140	196	56	0.16	0.2	0.04	-0.55	-0.6	0	0	0	0	0	0
4/22/2024 21:56	43102	SMIL_T2	8	8	0	1.03	1.05	0.02	-0.36	-0.38	0	0	0	0	0	0
4/22/2024 21:56	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 21:56	15204	SFAR_T2	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
4/22/2024 21:56	46501	LOHA_T1	0	0	0	0	0	0	-0.12	-0.08	1	1	0	1200	1200	0
4/22/2024 21:56	57301	MOAL_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/22/2024 21:56	57506	LAWN_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:56	56802	BENV_T2	225	313	88	0.34	0.44	0.1	-1.72	-1.72	0	0	0	0	0	0
4/22/2024 21:56	45902	AUBU_T1	49	0	-49	0.19	0	-0.19	-0.59	-0.55	0	0	0	0	0	0
4/22/2024 21:56	67502	WEWI_T2	0	182	182	0	0.23	0.23	-1.11	-1.05	0	0	0	0	0	0
4/22/2024 21:56	57505	LAWN_T3	6	11	5	0.23	0.37	0.14	0	0	0	0	0	0	0	0
4/22/2024 21:56	61303	EARL_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
4/22/2024 21:56	47002	HUGH_T2	8	9	1	0.11	0.13	0.02	0	0	0	0	0	0	0	0
4/22/2024 21:56	56501	ROCK_T2	2	2	0	0.55	0.75	0.2	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 21:56	65901	SMIR_T2	1	1	0	9.7	9.9	0.2	-1.32	-1.32	1	1	0	900	900	0
4/22/2024 21:56	57303	MOAL_T2	1	1	0	6.8	6.4	-0.4	0	0	0	0	0	0	0	0
4/22/2024 21:56	60701	BREC_T1	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
4/22/2024 21:56	57501	LAWN_T3	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
4/22/2024 21:56	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:56	43104	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/22/2024 21:56	43105	SMIL_T2	65	54	-11	0.33	0.35	0.02	0	0	0	0	0	0	0	0
4/22/2024 21:56	57306	MOAL_T2	0	0	0	0	0	0	-3.32	-3.3	1	1	0	1200	1200	0
4/22/2024 21:57	65601	QVIL_T2	0	0	0	0	0	0	-1.35	-1.35	1	1	0	900	900	0
4/22/2024 21:57	61102	BERK_T5	0	0	0	0	0	0	0.31	0.23	1	1	0	300	300	0
4/22/2024 21:57	54601	SUMM_T2	9	11	2	0.39	0.43	0.04	-1.99	-2.01	2	2	0	2100	2100	0
4/22/2024 21:57	26001	WDAM_T1	0	1	1	0	0	0	-0.41	-0.43	0	0	0	0	0	0
4/22/2024 21:57	45902	AUBU_T1	49	0	-49	0.19	0	-0.19	-1.18	-1.1	0	0	0	0	0	0
4/22/2024 21:57	57301	MOAL_T2	1	3	2	0.1	0.1	0	0.19	0.18	0	0	0	0	0	0
4/22/2024 21:57	26002	WDAM_T1	1	6	5	0.6	0.23	-0.37	0	0	0	0	0	0	0	0
4/22/2024 21:57	50103	HARR_T3	2	2	0	0.9	1.2	0.3	-1.05	-1.06	1	1	0	1200	1200	0
4/22/2024 21:57	24602	VARD_T2	817	926	109	1.23	1.25	0.02	-1.11	-1.13	0	0	0	0	0	0
4/22/2024 21:57	60801	BUCK_T1	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
4/22/2024 21:57	10705	CATA_T2	0	0	0	0	0	0	-0.04	-0.09	0	0	0	0	0	0
4/22/2024 21:57	46302	ROHR_T1	5	93	88	2	0.27	-1.73	0	0	0	0	0	0	0	0
4/22/2024 21:57	14402	SSLA_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
4/22/2024 21:57	67402	WAKE_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
4/22/2024 21:57	66505	SMAN_T2	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
4/22/2024 21:57	13704	SOHN_T2	0	3	3	0	0.1	0.1	-0.47	-0.46	0	0	0	0	0	0
4/22/2024 21:57	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:57	57304	MOAL_T2	48	62	14	0.38	0.52	0.14	0	0	0	0	0	0	0	0
4/22/2024 21:57	40601	PIGR_T1	241	120	-121	0.55	0.21	-0.34	-0.21	-0.26	0	0	0	0	0	0
4/22/2024 21:57	45901	AUBU_T1	0	0	0	0	0	0	1.86	1.54	0	0	0	0	0	0
4/22/2024 21:57	57402	SPAN_T2	0	0	0	0	0	0	-1.26	-1.26	0	0	0	0	0	0
4/22/2024 21:57	50201	HARR_T3	2	2	0	5.1	5.15	0.05	0	0	0	0	0	0	0	0
4/22/2024 21:57	61703	ELIZ_T1	0	0	0	0	0	0	-5.25	-5.08	4	4	0	4200	4200	0
4/22/2024 21:57	17401	FOHI_T1	0	0	0	0	0	0	-1.06	-1.05	0	0	0	0	0	0
4/22/2024 21:57	67501	WEWI_T1	0	0	0	0	0	0	-0.76	-0.79	0	0	0	0	0	0
4/22/2024 21:57	50105	HARR_T3	6	6	0	6.15	5.93	-0.22	0	0	0	0	0	0	0	0
4/22/2024 21:57	14404	SSLA_T1	2	4	2	3.5	2.43	-1.07	-0.03	-0.04	0	0	0	0	0	0
4/22/2024 21:57	14601	SWHI_T1	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
4/22/2024 21:57	57004	WHHI_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
4/22/2024 21:57	50102	HARR_T3	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
4/22/2024 21:57	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:57	48302	ORWI_T2	2	2	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
4/22/2024 21:57	61701	ELIZ_T1	1	1	0	5.5	5.8	0.3	0	0	0	0	0	0	0	0
4/22/2024 21:57	67502	WEWI_T2	0	182	182	0	0.23	0.23	-0.56	-0.52	0	0	0	0	0	0
4/22/2024 21:57	57306	MOAL_T2	0	0	0	0	0	0	-3.32	-3.3	1	1	0	1200	1200	0
4/22/2024 21:57	57006	WHHI_T2	39	80	41	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/22/2024 21:57	57303	MOAL_T2	1	1	0	6.8	6.4	-0.4	0	0	0	0	0	0	0	0
4/22/2024 21:57	57003	WHHI_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/22/2024 21:57	45801	HEGI_T1	0	0	0	0	0	0	-0.24	-0.28	1	1	0	900	900	0
4/22/2024 21:57	10702	CATA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/22/2024 21:57	10707	CATA_T2	0	0	0	0	0	0	0.35	0.4	0	0	0	0	0	0
4/22/2024 21:57	41502	FAIR_T2	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
4/22/2024 21:57	50202	HARR_T3	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/22/2024 21:57	24603	VARD_T2	206	265	59	0.3	0.39	0.09	0	0	0	0	0	0	0	0
4/22/2024 21:57	67303	WYOM_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
4/22/2024 21:57	46301	ROHR_T1	121	210	89	0.25	0.35	0.1	0.18	0.16	0	0	0	0	0	0
4/22/2024 21:57	66504	SMAN_T2	0	0	0	0	0	0	-0.64	-0.7	0	0	0	0	0	0
4/22/2024 21:57	16504	STRO_T1	33	39	6	0.24	0.26	0.02	0.08	0.06	1	1	0	1200	1200	0
4/22/2024 21:57	41304	FISH_T2	1	1	0	0	0	0	-0.08	-0.36	0	0	0	0	0	0
4/22/2024 21:58	54502	ENOL_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/22/2024 21:58	57304	MOAL_T2	48	62	14	0.38	0.52	0.14	0	0	0	0	0	0	0	0
4/22/2024 21:58	55002	NEWP_T1	6	6	0	0.87	1.1	0.23	-0.3	-0.32	0	0	0	0	0	0
4/22/2024 21:58	40601	PIGR_T1	241	120	-121	0.55	0.21	-0.34	0	0	0	0	0	0	0	0
4/22/2024 21:58	10702	CATA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/22/2024 21:58	45902	AUBU_T1	49	0	-49	0.19	0	-0.19	-0.59	-0.55	0	0	0	0	0	0
4/22/2024 21:58	10805	CHHI_T2	1	1	0	6.8	6.8	0	-1.08	-1.13	0	0	0	0	0	0
4/22/2024 21:58	10901	COOP_T2	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
4/22/2024 21:58	65206	PRIN_T4	51	15	-36	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
4/22/2024 21:58	43105	SMIL_T2	65	54	-11	0.33	0.35	0.02	0	0	0	0	0	0	0	0
4/22/2024 21:58	67605	WARW_T1	31	39	8	0.62	0.67	0.05	-1.04	-1.08	0	0	0	0	0	0
4/22/2024 21:58	63305	GREE_T1	3	12	9	0.1	0.22	0.12	-1.3	-1.27	0	0	0	0	0	0
4/22/2024 21:58	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:58	67501	WEWI_T1	0	0	0	0	0	0	-0.76	-0.79	0	0	0	0	0	0
4/22/2024 21:58	41802	GOCI_T2	27	35	8	0.45	0.44	-0.01	0	0	0	0	0	0	0	0
4/22/2024 21:58	24102	EHAZ_T1	3	6	3	0.53	1.8	1.27	0	0	0	0	0	0	0	0
4/22/2024 21:58	43103	SMIL_T2	22	22	0	1.25	1.29	0.04	0	0	0	0	0	0	0	0
4/22/2024 21:58	20402	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:58	43102	SMIL_T2	8	8	0	1.03	1.05	0.02	0	0	0	0	0	0	0	0
4/22/2024 21:58	54505	ENOL_T2	1	1	0	0.8	1	0.2	-1.41	-1.42	1	1	0	600	600	0
4/22/2024 21:58	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:58	57301	MOAL_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/22/2024 21:58	24105	EHAZ_T1	4	5	1	6.1	5.98	-0.12	0	0	0	0	0	0	0	0
4/22/2024 21:58	59302	MCAL_T1	1	1	0	1.3	1.3	0	-0.37	-0.42	1	1	0	600	600	0
4/22/2024 21:58	15001	BLMO_T1	4	4	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/22/2024 21:58	43104	SMIL_T2	1	1	0	0.1	0.1	0	-0.53	-0.53	0	0	0	0	0	0
4/22/2024 21:58	57303	MOAL_T2	1	1	0	6.8	6.4	-0.4	0	0	0	0	0	0	0	0
4/22/2024 21:58	65207	PRIN_T4	172	8	-164	0.17	0.1	-0.07	0	0	1	1	0	1200	1200	0
4/22/2024 21:58	56801	BENV_T1	17	20	3	0.88	1.06	0.18	-0.24	-0.9	0	1	1	0	600	600
4/22/2024 21:58	10801	CHHI_T1	0	0	0	0	0	0	-1.08	-1.08	1	1	0	900	900	0
4/22/2024 21:58	40603	PIGR_T1	0	0	0	0	0	0	0.28	-0.69	0	1	1	0	900	900
4/22/2024 21:58	12001	HATF_T1	0	0	0	0	0	0	0.88	-0.49	1	2	1	600	1800	1200
4/22/2024 21:58	67702	WERN_T2	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
4/22/2024 21:58	16102	BING_T2	9	13	4	0.18	0.27	0.09	1.1	0.18	1	0	-1	1200	0	-1200
4/22/2024 21:58	12002	HATF_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
4/22/2024 21:58	10903	COOP_T2	47	89	42	0.15	0.22	0.07	0	0	0	0	0	0	0	0
4/22/2024 21:58	60701	BREC_T1	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
4/22/2024 21:58	51304	WIND_T2	0	0	0	0	0	0	-0.32	-0.27	0	0	0	0	0	0
4/22/2024 21:58	56803	BENV_T1	5	5	0	1.1	1.08	-0.02	0	0	0	0	0	0	0	0
4/22/2024 21:58	44301	BEAV_T2	0	0	0	0	0	0	-0.17	0.18	1	1	0	600	600	0
4/22/2024 21:58	56802	BENV_T2	225	313	88	0.34	0.44	0.1	-0.86	-0.86	0	0	0	0	0	0
4/22/2024 21:58	15203	SFAR_T2	0	0	0	0	0	0	-1.41	-1.44	0	0	0	0	0	0
4/22/2024 21:58	57306	MOAL_T2	0	0	0	0	0	0	-3.32	-3.3	1	1	0	1200	1200	0
4/22/2024 21:58	62602	ENGL_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
4/22/2024 21:58	20401	ASHF_T2	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
4/22/2024 21:58	25503	MADI_T1	9	222	213	0.12	0.3	0.18	-1.06	-1.07	0	0	0	0	0	0
4/22/2024 21:58	64601	LEOL_T1	0	0	0	0	0	0	-0.54	-0.58	0	0	0	0	0	0
4/22/2024 21:58	24104	EHAZ_T1	0	0	0	0	0	0	-0.99	-1	1	1	0	1200	1200	0
4/22/2024 21:58	58402	MORO_T1	0	0	0	0	0	0	-0.3	-0.3	2	2	0	1500	1500	0
4/22/2024 21:58	41504	FAIR_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
4/22/2024 21:58	41801	GOCI_T2	146	177	31	0.23	0.35	0.12	0	0	0	0	0	0	0	0
4/22/2024 21:58	59301	MCAL_T1	54	61	7	0.26	0.35	0.09	0	0	0	0	0	0	0	0
4/22/2024 21:58	62605	ENGL_T1	0	4	4	0	0.1	0.1	-0.91	-0.92	0	0	0	0	0	0
4/22/2024 21:58	67401	WAKE_T2	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
4/22/2024 21:58	13302	ORVI_T2	0	0	0	0	0	0	1.37	1.26	0	0	0	0	0	0
4/22/2024 21:58	20403	ASHF_T2	36	39	3	0.78	0.83	0.05	0.06	0.03	0	0	0	0	0	0
4/22/2024 21:58	26401	INOR_T1	1	1	0	9.6	9.9	0.3	0.3	0.3	0	0	0	0	0	0
4/22/2024 21:58	25501	MADI_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
4/22/2024 21:58	10707	CATA_T2	0	0	0	0	0	0	0.35	0.4	0	0	0	0	0	0
4/22/2024 21:59	43301	WATS_T2	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
4/22/2024 21:59	45602	WOOL_T1	1	1	0	0.2	0.2	0	0.31	0.32	0	0	0	0	0	0
4/22/2024 21:59	53903	HALI_T2	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
4/22/2024 21:59	54502	ENOL_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/22/2024 21:59	50506	MECH_T1	1262	1411	149	0.32	0.43	0.11	-0.41	-0.45	0	0	0	0	0	0
4/22/2024 21:59	61102	BERK_T5	0	0	0	0	0	0	0.31	0.23	1	1	0	300	300	0
4/22/2024 21:59	50201	HARR_T3	2	2	0	5.1	5.15	0.05	0	0	0	0	0	0	0	0
4/22/2024 21:59	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:59	14603	SWHI_T1	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
4/22/2024 21:59	57003	WHHI_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/22/2024 21:59	66505	SMAN_T2	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
4/22/2024 21:59	20403	ASHF_T2	36	39	3	0.78	0.83	0.05	0	0	0	0	0	0	0	0
4/22/2024 21:59	50105	HARR_T3	6	6	0	6.15	5.93	-0.22	0	0	0	0	0	0	0	0
4/22/2024 21:59	50501	MECH_T1	364	532	168	0.25	0.26	0.01	0	0	0	0	0	0	0	0
4/22/2024 21:59	59201	THOM_T1	35	32	-3	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
4/22/2024 21:59	47103	MARL_T2	34	20	-14	0.17	0.18	0.01	-1.4	-1.4	0	0	0	0	0	0
4/22/2024 21:59	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:59	67203	TEHI_T1	0	0	0	0	0	0	2.12	2.01	1	2	1	600	1500	900
4/22/2024 21:59	45701	LIND_T2	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
4/22/2024 21:59	46206	DANV_T2	0	0	0	0	0	0	2.31	2.26	0	0	0	0	0	0
4/22/2024 21:59	44301	BEAV_T2	0	0	0	0	0	0	-0.17	0.18	1	1	0	600	600	0
4/22/2024 21:59	57004	WHHI_T2	0	0	0	0	0	0	-1.41	-1.37	0	0	0	0	0	0
4/22/2024 21:59	59003	MIFF_T1	1	1	0	1	0.9	-0.1	0.49	-0.62	0	0	0	0	0	0
4/22/2024 21:59	50503	MECH_T1	313	607	294	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
4/22/2024 21:59	45702	LIND_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
4/22/2024 21:59	24902	WHHA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:59	20401	ASHF_T2	2	3	1	0.15	0.13	-0.02	-0.46	-0.51	0	0	0	0	0	0
4/22/2024 21:59	67505	WEWI_T1	0	0	0	0	0	0	-0.42	-0.42	1	1	0	900	900	0
4/22/2024 21:59	42902	MIDD_T2	0	0	0	0	0	0	-1.27	-1.29	1	1	0	600	600	0
4/22/2024 21:59	24901	WHHA_T1	17	15	-2	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
4/22/2024 21:59	60102	COCA_T1	0	0	0	0	0	0	-0.17	0.5	1	0	-1	600	0	-600

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/22/2024 21:59	51302	WIND_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
4/22/2024 21:59	49804	UNIV_T1	1	0	-1	0.4	0	-0.4	0.32	0.26	0	0	0	0	0	0
4/22/2024 21:59	50103	HARR_T3	2	2	0	0.9	1.2	0.3	-1.05	-1.06	1	1	0	1200	1200	0
4/22/2024 21:59	53901	HALI_T2	1	1	0	0.5	0.5	0	-1.08	-1.1	0	0	0	0	0	0
4/22/2024 21:59	42001	MNVL_T2	0	1	1	0	0.3	0.3	-0.06	-0.08	0	0	0	0	0	0
4/22/2024 21:59	60803	BUCK_T1	0	0	0	0	0	0	-0.58	-0.57	0	0	0	0	0	0
4/22/2024 21:59	66502	SMAN_T2	0	0	0	0	0	0	-0.47	-0.67	0	0	0	0	0	0
4/22/2024 21:59	50102	HARR_T3	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
4/22/2024 21:59	67703	WERN_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
4/22/2024 21:59	59101	WALK_T2	0	0	0	0	0	0	1.31	1.08	0	0	0	0	0	0
4/22/2024 21:59	46001	BERW_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
4/22/2024 21:59	57006	WHHI_T2	39	80	41	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/22/2024 21:59	42002	MNVL_T2	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
4/22/2024 21:59	28403	HART_T2	0	0	0	0	0	0	-0.94	-0.98	1	1	0	900	900	0
4/22/2024 21:59	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 21:59	54505	ENOL_T2	1	1	0	0.8	1	0.2	-2.82	-2.84	2	2	0	1200	1200	0
4/22/2024 21:59	54501	ENOL_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
4/22/2024 21:59	58003	WCAR_T1	1	1	0	1.6	1.2	-0.4	0.51	0.48	0	0	0	0	0	0
4/22/2024 21:59	50505	MECH_T1	677	871	194	0.25	0.32	0.07	0	0	0	0	0	0	0	0
4/22/2024 21:59	43302	WATS_T2	4	4	0	1.33	1.33	0	0	0	0	0	0	0	0	0
4/22/2024 21:59	56601	HAMP_T1	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
4/22/2024 21:59	58001	WCAR_T1	4	4	0	1.08	0.83	-0.25	0	0	0	0	0	0	0	0
4/22/2024 21:59	20402	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 21:59	54601	SUMM_T2	9	11	2	0.39	0.43	0.04	-1.99	-2.01	2	2	0	2100	2100	0
4/22/2024 21:59	59002	MIFF_T1	6	4	-2	0.52	0.35	-0.17	0	0	0	0	0	0	0	0
4/22/2024 21:59	57205	ROSS_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
4/22/2024 21:59	15703	TANN_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
4/22/2024 21:59	22602	KIMB_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
4/22/2024 21:59	15702	TANN_T2	0	0	0	0	0	0	0.89	0.85	0	0	0	0	0	0
4/22/2024 21:59	14601	SWHI_T1	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
4/22/2024 21:59	47401	PENS_T1	0	0	0	0	0	0	0.62	0.58	0	0	0	0	0	0
4/22/2024 21:59	53902	HALI_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
4/22/2024 21:59	42903	MIDD_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/22/2024 21:59	59202	THOM_T1	408	427	19	0.44	0.48	0.04	0	0	0	0	0	0	0	0
4/22/2024 21:59	64303	LINC_T1	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
4/22/2024 21:59	56802	BENV_T2	225	313	88	0.34	0.44	0.1	-1.72	-1.72	0	0	0	0	0	0
4/22/2024 21:59	50504	MECH_T1	662	948	286	0.39	0.4	0.01	0	0	0	0	0	0	0	0
4/22/2024 21:59	44201	POIN_T1	274	449	175	0.23	0.3	0.07	-2.55	-2.47	2	2	0	2100	2100	0
4/22/2024 21:59	47102	MARL_T2	43	45	2	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
4/22/2024 21:59	50502	MECH_T1	86	271	185	0.18	0.18	0	0	0	0	0	0	0	0	0
4/22/2024 21:59	50202	HARR_T3	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/22/2024 21:59	60701	BREC_T1	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
4/22/2024 21:59	60101	COCA_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
4/22/2024 22:00	67505	WEWI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 22:00	57402	SPAN_T2	0	0	0	0	0	0	-1.26	-1.26	0	0	0	0	0	0
4/22/2024 22:00	57301	MOAL_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 22:00	46302	ROHR_T1	73	87	14	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
4/22/2024 22:00	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 22:00	26001	WDAM_T1	0	0	0	0	0	0	-0.82	-0.86	0	0	0	0	0	0
4/22/2024 22:00	51402	LYKE_T1	10	87	77	0.15	0.18	0.03	0	0	0	0	0	0	0	0
4/22/2024 22:00	13807	SALI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/22/2024 22:00	13701	SCHN_T2	0	0	0	0	0	0	-0.13	-0.13	1	1	0	600	600	0
4/22/2024 22:00	57304	MOAL_T2	62	60	-2	0.52	0.43	-0.09	-0.53	-0.53	0	0	0	0	0	0
4/22/2024 22:00	45501	DERR_T2	0	1	1	0	0.1	0.1	0.01	0.41	1	1	0	600	600	0
4/22/2024 22:00	62607	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 22:00	20401	ASHF_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/22/2024 22:00	10702	CATA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/22/2024 22:00	57303	MOAL_T2	1	1	0	6.4	6.8	0.4	0	0	0	0	0	0	0	0
4/22/2024 22:00	13805	SALI_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 22:00	62605	ENGL_T1	4	3	-1	0.1	0.13	0.03	-0.91	-0.92	0	0	0	0	0	0
4/22/2024 22:00	47401	PENS_T1	0	0	0	0	0	0	0.62	0.58	0	0	0	0	0	0
4/22/2024 22:00	51401	LYKE_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
4/22/2024 22:00	20402	ASHF_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/22/2024 22:00	15203	SFAR_T2	0	0	0	0	0	0	-1.41	-1.44	0	0	0	0	0	0
4/22/2024 22:00	13803	SALI_T1	0	0	0	0	0	0	-0.34	-0.24	2	2	0	2400	2400	0
4/22/2024 22:00	60802	BUCK_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
4/22/2024 22:00	20403	ASHF_T2	39	34	-5	0.83	0.54	-0.29	0.12	0.06	0	0	0	0	0	0
4/22/2024 22:00	67703	WERN_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
4/22/2024 22:00	14402	SSLA_T1	5	0	-5	0.12	0	-0.12	0	0	0	0	0	0	0	0
4/22/2024 22:00	14404	SSLA_T1	4	1	-3	2.43	6.1	3.67	-0.03	-0.04	0	0	0	0	0	0
4/22/2024 22:00	67501	WEWI_T1	0	37	37	0	0.17	0.17	-0.76	-0.79	0	0	0	0	0	0
4/22/2024 22:00	46301	ROHR_T1	202	184	-18	0.34	0.33	-0.01	0.18	0.16	0	0	0	0	0	0
4/22/2024 22:00	26002	WDAM_T1	6	3	-3	0.23	0.25	0.02	0	0	0	0	0	0	0	0
4/22/2024 22:00	13704	SCHN_T2	0	5	5	0	0.26	0.26	0	0	0	0	0	0	0	0
4/22/2024 22:00	56501	ROCK_T2	2	2	0	0.75	0.5	-0.25	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 22:00	60902	DONG_T2	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
4/22/2024 22:00	51201	MTON_T1	1	0	-1	0.1	0	-0.1	-0.02	-0.04	0	0	0	0	0	0
4/22/2024 22:00	64101	REFR_T1	0	0	0	0	0	0	-1.69	-1.68	0	0	0	0	0	0
4/22/2024 22:00	10705	CATA_T2	0	0	0	0	0	0	-0.04	-0.09	0	0	0	0	0	0
4/22/2024 22:01	53903	HALI_T2	2	2	0	1.15	0.7	-0.45	0	0	0	0	0	0	0	0
4/22/2024 22:01	42401	GIMA_T1	58	0	-58	0.17	0	-0.17	0	0	0	0	0	0	0	0
4/22/2024 22:01	44601	SALE_T2	1	1	0	0.9	0.6	-0.3	-0.23	-0.2	0	0	0	0	0	0
4/22/2024 22:01	66505	SMAN_T2	3	0	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
4/22/2024 22:01	54502	ENOL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/22/2024 22:01	56501	ROCK_T2	2	2	0	0.75	0.5	-0.25	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 22:01	57401	SPAN_T1	2	2	0	0.95	0.45	-0.5	0	0	0	0	0	0	0	0
4/22/2024 22:01	14502	SCHO_T1	0	1	1	0	0	0	0.4	0.4	0	0	0	0	0	0
4/22/2024 22:01	14203	EALL_T1	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
4/22/2024 22:01	54601	SUMM_T2	11	6	-5	0.43	0.3	-0.13	-1.99	-2.01	2	2	0	2100	2100	0
4/22/2024 22:01	45702	LIND_T2	1	1	0	0.9	1.1	0.2	-0.59	-0.6	0	0	0	0	0	0
4/22/2024 22:01	67701	WERN_T2	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
4/22/2024 22:01	10801	CHHI_T1	0	0	0	0	0	0	-2.17	-2.17	2	2	0	1800	1800	0
4/22/2024 22:01	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/22/2024 22:01	43102	SMIL_T2	8	6	-2	1.05	0.35	-0.7	-0.36	-0.38	0	0	0	0	0	0
4/22/2024 22:01	49803	UNIV_T1	0	0	0	0	0	0	0.1	0.01	0	0	0	0	0	0
4/22/2024 22:01	13704	SCHN_T2	0	5	5	0	0.26	0.26	-0.94	-0.92	0	0	0	0	0	0
4/22/2024 22:01	29402	BELT_T1	1	1	0	6.8	7	0.2	0	0	0	0	0	0	0	0
4/22/2024 22:01	41304	FISH_T2	1	1	0	0	0	0	-0.03	-0.12	0	0	0	0	0	0
4/22/2024 22:01	45801	HEGI_T1	0	0	0	0	0	0	-0.24	-0.28	1	1	0	900	900	0
4/22/2024 22:01	46206	DANV_T2	0	0	0	0	0	0	2.31	2.26	0	0	0	0	0	0
4/22/2024 22:01	43103	SMIL_T2	22	21	-1	1.29	0.51	-0.78	0	0	0	0	0	0	0	0
4/22/2024 22:01	43105	SMIL_T2	54	0	-54	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/22/2024 22:01	66504	SMAN_T2	0	0	0	0	0	0	-1.29	-1.4	0	0	0	0	0	0
4/22/2024 22:01	43101	SMIL_T2	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
4/22/2024 22:01	56802	BENV_T2	313	1	-312	0.44	0.4	-0.04	-0.86	-0.86	0	0	0	0	0	0
4/22/2024 22:01	53902	HALI_T2	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
4/22/2024 22:01	61302	EARL_T1	0	0	0	0	0	0	1.17	0.72	0	1	1	0	600	600
4/22/2024 22:01	42701	AUGU_T1	0	1	1	0	0.8	0.8	0	0	1	2	1	600	1800	1200
4/22/2024 22:01	44301	BEAV_T2	0	0	0	0	0	0	-0.17	0.18	1	1	0	600	600	0
4/22/2024 22:01	57403	SPAN_T1	104	23	-81	0.29	0.23	-0.06	-0.16	-0.14	0	0	0	0	0	0
4/22/2024 22:01	43104	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 22:01	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 22:01	15204	SFAR_T2	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
4/22/2024 22:01	14501	SCHO_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
4/22/2024 22:01	54505	ENOL_T2	1	1	0	1	0.6	-0.4	-1.41	-1.42	1	1	0	600	600	0
4/22/2024 22:01	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 22:01	53901	HALI_T2	1	1	0	0.5	0.3	-0.2	-2.17	-2.21	0	0	0	0	0	0
4/22/2024 22:01	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 22:01	16301	ALPA_T1	196	1	-195	0.2	0.2	0	-0.55	-0.6	0	0	0	0	0	0
4/22/2024 22:01	42201	SHEN_T2	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
4/22/2024 22:02	61701	ELIZ_T1	1	1	0	5.8	4.9	-0.9	0	0	0	0	0	0	0	0
4/22/2024 22:02	57303	MOAL_T2	1	1	0	6.4	6.8	0.4	0	0	0	0	0	0	0	0
4/22/2024 22:02	59201	THOM_T1	32	0	-32	0.38	0	-0.38	0	0	0	0	0	0	0	0
4/22/2024 22:02	54204	PENN_T2	3	2	-1	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
4/22/2024 22:02	51304	WIND_T2	0	0	0	0	0	0	-0.32	-0.27	0	0	0	0	0	0
4/22/2024 22:02	65702	RVIL_T2	0	0	0	0	0	0	-0.74	-0.77	0	0	0	0	0	0
4/22/2024 22:02	22101	EDEL_T2	0	0	0	0	0	0	0.34	0.34	1	1	0	1200	1200	0
4/22/2024 22:02	40602	PIGR_T1	0	1	1	0	0.4	0.4	0.49	0.49	0	0	0	0	0	0
4/22/2024 22:02	67702	WERN_T2	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
4/22/2024 22:02	61102	BERK_T5	0	0	0	0	0	0	0.31	0.23	1	1	0	300	300	0
4/22/2024 22:02	60501	NMAN_T2	3	3	0	5	4.77	-0.23	0	0	0	0	0	0	0	0
4/22/2024 22:02	28403	HART_T2	0	0	0	0	0	0	-0.94	-0.98	1	1	0	900	900	0
4/22/2024 22:02	45702	LIND_T2	1	1	0	0.9	1.1	0.2	-0.59	-0.6	0	0	0	0	0	0
4/22/2024 22:02	57101	SPHI_T2	6	6	0	0.93	0.87	-0.06	0	0	0	0	0	0	0	0
4/22/2024 22:02	57304	MOAL_T2	62	60	-2	0.52	0.43	-0.09	-0.53	-0.53	0	0	0	0	0	0
4/22/2024 22:02	51603	DUKE_T1	1	0	-1	0.1	0	-0.1	-0.55	-0.51	0	0	0	0	0	0
4/22/2024 22:02	46001	BERW_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
4/22/2024 22:02	45602	WOOL_T1	1	2	1	0.2	0.5	0.3	0.31	0.32	0	0	0	0	0	0
4/22/2024 22:02	57104	SPHI_T2	0	1	1	0	3.1	3.1	-0.3	-0.33	0	0	0	0	0	0
4/22/2024 22:02	13704	SCHN_T2	0	5	5	0	0.26	0.26	-0.47	-0.46	0	0	0	0	0	0
4/22/2024 22:02	40601	PIGR_T1	120	15	-105	0.21	0.15	-0.06	-0.21	-0.26	0	0	0	0	0	0
4/22/2024 22:02	13103	NHAM_T2	0	0	0	0	0	0	-1.82	-1.83	1	1	0	600	600	0
4/22/2024 22:02	60502	NMAN_T2	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
4/22/2024 22:02	61703	ELIZ_T1	0	0	0	0	0	0	-2.63	-2.54	2	2	0	2100	2100	0
4/22/2024 22:02	57106	SPHI_T2	2	2	0	1.45	1.1	-0.35	0	0	0	0	0	0	0	0
4/22/2024 22:02	57203	ROSS_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
4/22/2024 22:02	57301	MOAL_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 22:02	64101	REFR_T1	0	0	0	0	0	0	-0.85	-0.84	0	0	0	0	0	0
4/22/2024 22:02	43302	WATS_T2	4	4	0	1.05	1.45	0.4	0	0	0	0	0	0	0	0
4/22/2024 22:02	65604	QVIL_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
4/22/2024 22:02	54202	PENN_T2	317	3	-314	0.22	0.1	-0.12	0	0	0	0	0	0	0	0
4/22/2024 22:02	43304	WATS_T2	0	0	0	0	0	0	0.43	0.46	0	0	0	0	0	0
4/22/2024 22:02	54206	PENN_T2	146	17	-129	0.26	0.12	-0.14	-0.11	-0.16	0	0	0	0	0	0
4/22/2024 22:02	59202	THOM_T1	427	1	-426	0.48	0.1	-0.38	0	0	0	0	0	0	0	0
4/22/2024 22:02	57306	MOAL_T2	0	0	0	0	0	0	-3.32	-3.3	1	1	0	1200	1200	0
4/22/2024 22:03	53902	HALI_T2	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
4/22/2024 22:03	61701	ELIZ_T1	1	1	0	5.8	4.9	-0.9	0	0	0	0	0	0	0	0
4/22/2024 22:03	41801	GOCI_T2	177	0	-177	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/22/2024 22:03	41305	FISH_T1	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 22:03	46502	LOHA_T1	0	0	0	0	0	0	-1.45	-1.45	1	1	0	1200	1200	0
4/22/2024 22:03	53901	HALI_T2	1	1	0	0.5	0.3	-0.2	-1.08	-1.1	0	0	0	0	0	0
4/22/2024 22:03	57006	WHHI_T2	80	0	-80	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/22/2024 22:03	46504	LOHA_T1	30	25	-5	0.28	0.3	0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/22/2024 22:03	15103	UPHA_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
4/22/2024 22:03	44601	SALE_T2	1	1	0	0.9	0.6	-0.3	-0.23	-0.2	0	0	0	0	0	0
4/22/2024 22:03	41802	GOCI_T2	35	2	-33	0.44	0.1	-0.34	0	0	0	0	0	0	0	0
4/22/2024 22:03	44502	HAMI_T2	1	1	0	3.4	3.7	0.3	0	0	0	0	0	0	0	0
4/22/2024 22:03	46203	DANV_T2	0	0	0	0	0	0	0.11	0.06	0	0	0	0	0	0
4/22/2024 22:03	43104	SMIL_T2	1	0	-1	0.1	0	-0.1	-0.53	-0.53	0	0	0	0	0	0
4/22/2024 22:03	46801	HEPB_T2	2	2	0	0.2	0.65	0.45	0	0	0	0	0	0	0	0
4/22/2024 22:03	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.22	0	0	0	0	0	0
4/22/2024 22:03	54201	PENN_T1	11	11	0	1.02	0.68	-0.34	0	0	0	0	0	0	0	0
4/22/2024 22:03	41301	FISH_T1	28	2	-26	0.3	1.9	1.6	-0.07	-0.1	0	0	0	0	0	0
4/22/2024 22:03	20603	GRWO_T2	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0	0
4/22/2024 22:03	53903	HALI_T2	2	2	0	1.15	0.7	-0.45	0	0	0	0	0	0	0	0
4/22/2024 22:03	49804	UNIV_T1	0	0	0	0	0	0	0.32	0.26	0	0	0	0	0	0
4/22/2024 22:03	13105	NHAM_T2	0	0	0	0	0	0	-0.82	-0.88	1	1	0	1200	1200	0
4/22/2024 22:03	45501	DERR_T2	0	1	1	0	0.1	0.1	0.01	0.41	1	1	0	600	600	0
4/22/2024 22:03	43105	SMIL_T2	54	0	-54	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/22/2024 22:03	61703	ELIZ_T1	0	0	0	0	0	0	-2.63	-2.54	2	2	0	2100	2100	0
4/22/2024 22:03	44504	HAMI_T2	0	0	0	0	0	0	-1.41	-1.43	0	0	0	0	0	0
4/22/2024 22:03	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 22:03	46803	HEPB_T2	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
4/22/2024 22:03	43102	SMIL_T2	8	6	-2	1.05	0.35	-0.7	0	0	0	0	0	0	0	0
4/22/2024 22:03	45702	LIND_T2	1	1	0	0.9	1.1	0.2	-0.59	-0.6	0	0	0	0	0	0
4/22/2024 22:03	42701	AUGU_T1	0	1	1	0	0.8	0.8	0	0	1	2	1	600	1800	1200
4/22/2024 22:03	66505	SMAN_T2	3	0	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
4/22/2024 22:03	54601	SUMM_T2	11	6	-5	0.43	0.3	-0.13	-1.99	-2.01	2	2	0	2100	2100	0
4/22/2024 22:03	46206	DANV_T2	0	0	0	0	0	0	2.31	2.26	0	0	0	0	0	0
4/22/2024 22:03	54203	PENN_T1	18	18	0	1.56	1.19	-0.37	-0.11	-0.11	0	0	0	0	0	0
4/22/2024 22:03	12401	MILF_T1	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
4/22/2024 22:03	43103	SMIL_T2	22	21	-1	1.29	0.51	-0.78	0	0	0	0	0	0	0	0
4/22/2024 22:03	55002	NEWP_T1	6	2	-4	1.1	0.45	-0.65	-0.3	-0.32	0	0	0	0	0	0
4/22/2024 22:03	55105	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 22:03	65702	RVIL_T2	0	0	0	0	0	0	-0.74	-0.77	0	0	0	0	0	0
4/22/2024 22:03	57004	WHHI_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
4/22/2024 22:03	23001	SAIO_T1	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
4/22/2024 22:03	60902	DONG_T2	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
4/22/2024 22:03	57003	WHHI_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/22/2024 22:04	66505	SMAN_T2	3	0	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
4/22/2024 22:04	51202	MTON_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
4/22/2024 22:04	57306	MOAL_T2	0	0	0	0	0	0	-3.32	-3.3	1	1	0	1200	1200	0
4/22/2024 22:04	53903	HALI_T2	2	2	0	1.15	0.7	-0.45	0	0	0	0	0	0	0	0
4/22/2024 22:04	61503	EPET_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 22:04	61303	EARL_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
4/22/2024 22:04	20403	ASHF_T2	39	34	-5	0.83	0.54	-0.29	0.06	0.03	0	0	0	0	0	0
4/22/2024 22:04	56802	BENV_T2	313	1	-312	0.44	0.4	-0.04	-1.72	-1.72	0	0	0	0	0	0
4/22/2024 22:04	46004	BERW_T2	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
4/22/2024 22:04	51104	CARL_T1	1	1	0	5.3	2.9	-2.4	0	0	0	0	0	0	0	0
4/22/2024 22:04	56501	ROCK_T2	2	2	0	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
4/22/2024 22:04	54502	ENOL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/22/2024 22:04	51109	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 22:04	57304	MOAL_T2	62	60	-2	0.52	0.43	-0.09	0	0	0	0	0	0	0	0
4/22/2024 22:04	51102	CARL_T1	87	20	-67	0.21	0.14	-0.07	0	0	0	0	0	0	0	0
4/22/2024 22:04	51107	CARL_T1	0	0	0	0	0	0	-0.23	-0.33	0	0	0	0	0	0
4/22/2024 22:04	58302	NOTT_T1	0	0	0	0	0	0	-0.42	-0.35	1	1	0	1200	1200	0
4/22/2024 22:04	20401	ASHF_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/22/2024 22:04	51604	DUKE_T2	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
4/22/2024 22:04	58006	WCAR_T2	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
4/22/2024 22:04	60102	CDCA_T1	0	0	0	0	0	0	-0.17	0.5	1	0	-1	600	0	-600
4/22/2024 22:04	53902	HALI_T2	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
4/22/2024 22:04	58401	MORO_T1	0	0	0	0	0	0	-1.3	-1.29	1	1	0	600	600	0
4/22/2024 22:04	57006	WHHI_T2	80	0	-80	0.2	0	-0.2	0.71	0.74	0	0	0	0	0	0
4/22/2024 22:04	45402	WBLO_T2	1	1	0	1.2	0.8	-0.4	-0.92	-0.93	0	0	0	0	0	0
4/22/2024 22:04	54505	ENOL_T2	1	1	0	1	0.6	-0.4	-1.41	-1.42	1	1	0	600	600	0
4/22/2024 22:04	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 22:04	57003	WHHI_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/22/2024 22:04	46602	LACR_T1	0	0	0	0	0	0	-1.21	-1.27	0	0	0	0	0	0
4/22/2024 22:04	47001	HUGH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 22:04	54504	ENOL_T2	0	0	0	0	0	0	-1	-1.01	1	1	0	600	600	0
4/22/2024 22:04	57303	MOAL_T2	1	1	0	6.4	6.8	0.4	0	0	0	0	0	0	0	0
4/22/2024 22:04	53901	HALI_T2	1	1	0	0.5	0.3	-0.2	-1.08	-1.1	0	0	0	0	0	0
4/22/2024 22:04	66502	SMAN_T2	0	0	0	0	0	0	-0.47	-0.67	0	0	0	0	0	0
4/22/2024 22:04	46206	DANV_T2	0	0	0	0	0	0	6.93	6.79	0	0	0	0	0	0
4/22/2024 22:04	57301	MOAL_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 22:04	47002	HUGH_T2	0	69	69	0	0.17	0.17	0	0	0	0	0	0	0	0
4/22/2024 22:04	61502	EPET_T1	112	0	-112	0.26	0	-0.26	-1.24	-1.23	0	0	0	0	0	0
4/22/2024 22:04	20402	ASHF_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/22/2024 22:05	40701	FFLD_T1	66	134	68	0.39	0.49	0.1	0	0	0	0	0	0	0	0
4/22/2024 22:05	59002	MIFF_T1	4	5	1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
4/22/2024 22:05	44201	POIN_T1	392	599	207	0.29	0.35	0.06	-2.55	-2.47	2	2	0	2100	2100	0
4/22/2024 22:05	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.22	0	0	0	0	0	0
4/22/2024 22:05	63801	HEMP_T1	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
4/22/2024 22:05	58401	MORO_T1	0	0	0	0	0	0	-2.59	-2.59	2	2	0	1200	1200	0
4/22/2024 22:05	46503	LOHA_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
4/22/2024 22:05	50502	MECH_T1	271	1	-270	0.18	2.1	1.92	0	0	0	0	0	0	0	0
4/22/2024 22:05	57401	SPAN_T1	2	2	0	0.95	0.45	-0.5	0	0	0	0	0	0	0	0
4/22/2024 22:05	50701	SMEC_T1	13	0	-13	0.13	0	-0.13	0.04	-0.02	0	0	0	0	0	0
4/22/2024 22:05	63302	GREE_T1	0	0	0	0	0	0	0.25	0.14	0	0	0	0	0	0
4/22/2024 22:05	50504	MECH_T1	948	0	-948	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/22/2024 22:05	46102	MACI_T1	227	44	-183	0.29	0.14	-0.15	0.31	0.28	0	0	0	0	0	0
4/22/2024 22:05	59003	MIFF_T1	1	1	0	0.9	1.2	0.3	0.98	-1.23	0	0	0	0	0	0
4/22/2024 22:05	43103	SMIL_T2	22	21	-1	1.29	0.51	-0.78	0	0	0	0	0	0	0	0
4/22/2024 22:05	46504	LOHA_T1	30	25	-5	0.28	0.3	0.02	0	0	0	0	0	0	0	0
4/22/2024 22:05	57403	SPAN_T1	104	23	-81	0.29	0.23	-0.06	-0.08	-0.07	0	0	0	0	0	0
4/22/2024 22:05	51305	WIND_T1	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
4/22/2024 22:05	42201	SHEN_T2	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
4/22/2024 22:05	43802	SWIL_T1	0	0	0	0	0	0	-0.35	-0.35	1	1	0	600	600	0
4/22/2024 22:05	50501	MECH_T1	532	4	-528	0.26	1.15	0.89	0	0	0	0	0	0	0	0
4/22/2024 22:05	15104	UPHA_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
4/22/2024 22:05	43104	SMIL_T2	1	0	-1	0.1	0	-0.1	-0.53	-0.53	0	0	0	0	0	0
4/22/2024 22:05	50506	MECH_T1	1411	1	-1410	0.43	0	-0.43	-0.41	-0.45	0	0	0	0	0	0
4/22/2024 22:05	50503	MECH_T1	607	0	-607	0.25	0	-0.25	0	0	0	0	0	0	0	0
4/22/2024 22:05	60701	BREC_T1	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
4/22/2024 22:05	46001	BERW_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
4/22/2024 22:05	65903	SAKR_T2	0	0	0	0	0	0	-1.52	-1.46	3	3	0	2100	2100	0
4/22/2024 22:05	14703	TREX_T2	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/22/2024 22:05	40703	FFLD_T1	3	4	1	0.37	0.68	0.31	0	0	0	0	0	0	0	0
4/22/2024 22:05	43102	SMIL_T2	8	6	-2	1.05	0.35	-0.7	-0.73	-0.77	0	0	0	0	0	0
4/22/2024 22:05	66703	STRA_T1	172	178	6	0.3	0.24	-0.06	-0.46	-0.47	0	0	0	0	0	0
4/22/2024 22:05	63804	HEMP_T1	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
4/22/2024 22:05	11805	FRAN_T1	0	0	0	0	0	0	-1.55	-0.26	1	0	-1	1200	0	-1200
4/22/2024 22:05	56603	HAMP_T1	0	0	0	0	0	0	-1.25	-1.19	0	0	0	0	0	0
4/22/2024 22:05	65901	SAKR_T2	1	1	0	9.9	8.8	-1.1	0	0	0	0	0	0	0	0
4/22/2024 22:05	63305	GREE_T1	5	14	9	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
4/22/2024 22:05	43801	SWIL_T1	2	2	0	3.4	3.3	-0.1	0	0	0	0	0	0	0	0
4/22/2024 22:05	40702	FFLD_T1	88	164	76	0.22	0.42	0.2	-0.73	-0.79	1	1	0	1200	1200	0
4/22/2024 22:05	43105	SMIL_T2	54	0	-54	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/22/2024 22:05	51603	DUKE_T1	1	0	-1	0.1	0	-0.1	-0.55	-0.51	0	0	0	0	0	0
4/22/2024 22:05	66505	SMAN_T2	3	0	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
4/22/2024 22:05	46801	HEPB_T2	2	2	0	0.2	0.65	0.45	0.5	0.48	0	0	0	0	0	0
4/22/2024 22:05	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 22:05	14702	TREX_T2	0	0	0	0	0	0	0.63	0.8	0	0	0	0	0	0
4/22/2024 22:05	50505	MECH_T1	871	0	-871	0.32	0	-0.32	0	0	0	0	0	0	0	0
4/22/2024 22:05	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 22:06	44201	POIN_T1	392	599	207	0.29	0.35	0.06	-5.09	-4.95	4	4	0	4200	4200	0
4/22/2024 22:06	52006	LING_T2	2	3	1	0.75	0.67	-0.08	0	0	0	0	0	0	0	0
4/22/2024 22:06	47002	HUGH_T2	0	69	69	0	0.17	0.17	0	0	0	0	0	0	0	0
4/22/2024 22:06	65503	MOJO_T2	29	8	-21	0.41	0.1	-0.31	0	0	0	0	0	0	0	0
4/22/2024 22:06	45702	LIND_T2	1	1	0	0.9	1.1	0.2	-0.59	-0.6	0	0	0	0	0	0
4/22/2024 22:06	52002	LING_T2	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
4/22/2024 22:06	47401	PENS_T1	0	0	0	0	0	0	0.62	0.58	0	0	0	0	0	0
4/22/2024 22:06	46203	DANV_T2	0	0	0	0	0	0	0.11	0.06	0	0	0	0	0	0
4/22/2024 22:06	51201	MTON_T1	1	0	-1	0.1	0	-0.1	-0.02	-0.04	0	0	0	0	0	0
4/22/2024 22:06	14402	SSLA_T1	5	0	-5	0.12	0	-0.12	0	0	0	0	0	0	0	0
4/22/2024 22:06	56501	ROCK_T2	2	2	0	0.75	0.5	-0.25	-0.02	-0.02	0	0	0	0	0	0
4/22/2024 22:06	52501	PROG_T1	0	0	0	0	0	0	0.28	0.26	1	1	0	300	300	0
4/22/2024 22:06	52004	LING_T2	0	1	1	0	0.2	0.2	0.1	0.1	0	0	0	0	0	0
4/22/2024 22:06	47001	HUGH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 22:06	67402	WAKE_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
4/22/2024 22:06	45402	WBLO_T2	1	1	0	1.2	0.8	-0.4	-0.92	-0.93	0	0	0	0	0	0
4/22/2024 22:06	15001	BLMO_T1	2	4	2	0.1	0.63	0.53	0	0	0	0	0	0	0	0
4/22/2024 22:06	14403	SSLA_T1	0	0	0	0	0	0	0.57	0.51	0	0	0	0	0	0
4/22/2024 22:06	65502	MOJO_T2	37	0	-37	0.1	0	-0.1	-1.17	-1.18	0	0	0	0	0	0
4/22/2024 22:06	45501	DERR_T2	0	1	1	0	0.1	0.1	0.01	0.81	2	2	0	1200	1200	0
4/22/2024 22:06	51604	DUKE_T2	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
4/22/2024 22:06	14404	SSLA_T1	4	1	-3	2.43	6.1	3.67	0	0	0	0	0	0	0	0
4/22/2024 22:07	43304	WATS_T2	0	0	0	0	0	0	0.43	0.46	0	0	0	0	0	0
4/22/2024 22:07	45402	WBLO_T2	1	1	0	1.2	0.8	-0.4	-0.92	-0.93	0	0	0	0	0	0
4/22/2024 22:07	43105	SMIL_T2	54	0	-54	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/22/2024 22:07	43103	SMIL_T2	22	21	-1	1.29	0.51	-0.78	0	0	0	0	0	0	0	0
4/22/2024 22:07	40101	HUNT_T2	0	1	1	0	0.1	0.1	-0.8	-0.5	0	0	0	0	0	0
4/22/2024 22:07	58401	MORO_T1	0	0	0	0	0	0	-1.3	-1.29	1	1	0	600	600	0
4/22/2024 22:07	46001	BERW_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
4/22/2024 22:07	43104	SMIL_T2	1	0	-1	0.1	0	-0.1	-0.53	-0.53	0	0	0	0	0	0
4/22/2024 22:07	41901	REED_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/22/2024 22:07	15204	SFAR_T2	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
4/22/2024 22:07	54601	SUMM_T2	11	6	-5	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
4/22/2024 22:07	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 22:07	41902	REED_T1	0	0	0	0	0	0	0.99	0.96	0	0	0	0	0	0
4/22/2024 22:07	43102	SMIL_T2	8	6	-2	1.05	0.35	-0.7	0	0	0	0	0	0	0	0
4/22/2024 22:07	54602	SUMM_T2	0	0	0	0	0	0	-1.24	-1.21	1	1	0	600	600	0
4/22/2024 22:07	51202	MTON_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
4/22/2024 22:07	43302	WATS_T2	4	4	0	1.05	1.45	0.4	0	0	0	0	0	0	0	0
4/22/2024 22:08	41301	FISH_T1	28	2	-26	0.3	1.9	1.6	-0.1	-0.1	0	0	0	0	0	0
4/22/2024 22:08	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/22/2024 22:08	41902	REED_T1	0	0	0	0	0	0	0.96	0.92	0	0	0	0	0	0
4/22/2024 22:08	41305	FISH_T1	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/22/2024 22:08	53901	HALI_T2	1	1	0	0.5	0.3	-0.2	-2.21	-2.21	0	0	0	0	0	0
4/22/2024 22:08	46302	ROHR_T1	73	87	14	0.29	0.27	-0.02	0.14	0.12	0	0	0	0	0	0
4/22/2024 22:08	56501	ROCK_T2	2	2	0	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
4/22/2024 22:08	53903	HALI_T2	2	2	0	1.15	0.7	-0.45	0	0	0	0	0	0	0	0
4/22/2024 22:08	46301	ROHR_T1	202	184	-18	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
4/22/2024 22:08	42701	AUGU_T1	0	1	1	0	0.8	0.8	0	0	1	2	1	600	1800	1200
4/22/2024 22:08	59003	MIFF_T1	1	1	0	0.9	1.2	0.3	-0.62	-0.69	0	0	0	0	0	0
4/22/2024 22:08	53902	HALI_T2	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
4/22/2024 22:08	59002	MIFF_T1	4	5	1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
4/22/2024 22:08	41901	REED_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/22/2024 22:08	58402	MORO_T1	0	0	0	0	0	0	-0.3	-0.34	2	2	0	1500	1500	0
4/22/2024 22:09	57401	SPAN_T1	2	2	0	0.95	0.45	-0.5	0	0	0	0	0	0	0	0
4/22/2024 22:09	15203	SFAR_T2	0	0	0	0	0	0	-1.44	-1.43	0	0	0	0	0	0
4/22/2024 22:09	44301	BEAV_T2	0	0	0	0	0	0	0.18	0.52	1	1	0	600	600	0
4/22/2024 22:09	57403	SPAN_T1	104	23	-81	0.29	0.23	-0.06	-0.07	-0.08	0	0	0	0	0	0
4/22/2024 22:09	58402	MORO_T1	0	0	0	0	0	0	-0.3	-0.34	2	2	0	1500	1500	0
4/22/2024 22:10	53902	HALI_T2	1	1	0	5.5	5.2	-0.3	-0.32	-0.34	0	0	0	0	0	0
4/22/2024 22:10	53903	HALI_T2	2	2	0	1.15	0.7	-0.45	0	0	0	0	0	0	0	0
4/22/2024 22:10	57004	WHHI_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
4/22/2024 22:10	57003	WHHI_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/22/2024 22:10	51603	DUKE_T1	1	0	-1	0.1	0	-0.1	-0.51	-0.57	0	0	0	0	0	0
4/22/2024 22:10	57006	WHHI_T2	80	0	-80	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/22/2024 22:10	59101	WALK_T2	0	0	0	0	0	0	1.08	1.1	0	0	0	0	0	0
4/22/2024 22:10	49804	UNIV_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
4/22/2024 22:10	56802	BENV_T2	313	1	-312	0.44	0.4	-0.04	-0.86	-0.88	0	0	0	0	0	0
4/22/2024 22:10	53901	HALI_T2	1	0	-1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/22/2024 22:11	57205	ROSS_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
4/22/2024 22:11	55002	NEWP_T1	6	2	-4	1.1	0.45	-0.65	0	0	0	0	0	0	0	0
4/22/2024 22:11	55001	NEWP_T1	0	0	0	0	0	0	-0.33	-0.44	0	0	0	0	0	0
4/22/2024 22:13	59003	MIFF_T1	1	1	0	0.9	1.2	0.3	-0.62	-0.69	0	0	0	0	0	0
4/22/2024 22:13	59002	MIFF_T1	4	5	1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
4/22/2024 22:16	62605	ENGL_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/22/2024 22:16	62607	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/22/2024 22:16	62601	ENGL_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
4/22/2024 22:19	56802	BENV_T2	1	1	0	0.4	0.4	0	-0.86	-0.88	0	0	0	0	0	0
4/22/2024 22:23	40101	HUNT_T2	0	1	1	0	0.1	0.1	-0.51	-0.51	0	0	0	0	0	0
4/22/2024 22:43	42802	SELI_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
4/22/2024 22:46	40101	HUNT_T2	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
4/22/2024 22:49	46203	DANV_T2	0	9	9	0	0.16	0.16	0	0	0	0	0	0	0	0
4/22/2024 22:49	46206	DANV_T2	0	0	0	0	0	0	2.25	2.26	1	0	-1	1200	0	-1200
4/22/2024 22:51	51204	MTON_T2	0	0	0	0	0	0	-0.53	-0.52	1	1	0	600	600	0
4/22/2024 23:52	13501	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2024 23:56	64702	LITI_T2	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
4/22/2024 23:57	40101	HUNT_T2	0	0	0	0	0	0	-0.57	-0.55	0	0	0	0	0	0
4/23/2024 0:06	47402	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/23/2024 0:06	47403	PENS_T1	10	13	3	0.12	0.12	0	0	0	0	0	0	0	0	0
4/23/2024 0:06	47401	PENS_T1	0	5	5	0	0.12	0.12	0.63	0.56	0	0	0	0	0	0
4/23/2024 1:53	44502	HAMI_T2	1	1	0	3.6	3.6	0	-1.1	-1.07	0	0	0	0	0	0
4/23/2024 2:12	47401	PENS_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
4/23/2024 2:45	47401	PENS_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
4/23/2024 6:50	14404	SSLA_T1	1	1	0	4.7	5	0.3	-0.01	0.01	0	0	0	0	0	0
4/23/2024 6:53	60902	DONG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 6:53	60903	DONG_T2	0	1	1	0	0	0	0.01	0.11	1	1	0	600	600	0
4/23/2024 6:54	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 6:55	45901	AUBU_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
4/23/2024 7:08	67805	WLAN_T1	0	0	0	0	0	0	-1.15	-1.06	0	0	0	0	0	0
4/23/2024 7:18	55002	NEWP_T1	6	5	-1	0.43	0.32	-0.11	0	0	0	0	0	0	0	0
4/23/2024 7:18	55001	NEWP_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
4/23/2024 7:23	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/23/2024 7:23	40505	CRES_T1	3	3	0	4.33	4.97	0.64	0	0	0	0	0	0	0	0
4/23/2024 7:23	40504	CRES_T1	0	0	0	0	0	0	-1.78	-1.74	0	0	0	0	0	0
4/23/2024 7:23	29402	BELT_T1	1	1	0	5.8	6.4	0.6	0	0	0	0	0	0	0	0
4/23/2024 7:26	29402	BELT_T1	1	1	0	5.8	6.4	0.6	0	0	0	0	0	0	0	0
4/23/2024 7:26	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 7:26	24902	WHHA_T1	4	95	91	1.03	0.82	-0.21	0	0	0	0	0	0	0	0
4/23/2024 7:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/23/2024 7:27	40101	HUNT_T2	4	17	13	0.33	0.15	-0.18	-0.38	-0.42	0	0	0	0	0	0
4/23/2024 7:29	40101	HUNT_T2	4	17	13	0.33	0.15	-0.18	-0.38	-0.42	0	0	0	0	0	0
4/23/2024 7:30	13503	MCMI_T2	0	47	47	0	0.26	0.26	-0.47	-0.9	0	0	0	0	0	0
4/23/2024 7:30	40101	HUNT_T2	16	7	-9	0.28	0.1	-0.18	-0.38	-0.42	0	0	0	0	0	0
4/23/2024 7:31	41801	GOCI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 7:32	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 7:35	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.78	1	1	0	900	900	0
4/23/2024 7:40	46203	DANV_T2	64	81	17	0.27	0.26	-0.01	-4.69	-4.7	0	0	0	0	0	0
4/23/2024 7:42	61503	EPET_T1	0	0	0	0	0	0	-1.21	-1.18	0	0	0	0	0	0
4/23/2024 7:44	12006	HATF_T1	0	0	0	0	0	0	0.17	0.18	1	1	0	1200	1200	0
4/23/2024 7:44	45702	LIND_T2	0	2	2	0	0.7	0.7	-3.37	-3.35	0	0	0	0	0	0
4/23/2024 7:44	12002	HATF_T1	1	1	0	2.1	1.2	-0.9	0	0	0	0	0	0	0	0
4/23/2024 7:45	40101	HUNT_T2	7	1	-6	0.23	0	-0.23	-0.42	-0.45	0	0	0	0	0	0
4/23/2024 7:46	45702	LIND_T2	1	1	0	0.7	0.4	-0.3	-1.69	-1.67	0	0	0	0	0	0
4/23/2024 7:47	40101	HUNT_T2	7	1	-6	0.23	0	-0.23	-0.42	-0.45	0	0	0	0	0	0
4/23/2024 7:48	56501	ROCK_T2	0	2	2	0	0.15	0.15	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 7:49	56501	ROCK_T2	0	2	2	0	0.15	0.15	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 7:52	56501	ROCK_T2	0	2	2	0	0.15	0.15	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 7:52	14802	TREI_T2	0	0	0	0	0	0	0.37	0.32	0	0	0	0	0	0
4/23/2024 7:52	61101	BERK_T5	0	0	0	0	0	0	-1.08	-0.95	0	0	0	0	0	0
4/23/2024 7:53	67703	WERN_T2	0	0	0	0	0	0	-0.29	-0.31	1	1	0	900	900	0
4/23/2024 7:53	10805	CHHI_T2	12	11	-1	1.33	4.65	3.32	-0.44	-0.5	1	1	0	600	600	0
4/23/2024 7:54	53601	DALM_T2	1	1	0	0.5	1.2	0.7	0.1	-0.49	1	1	0	900	900	0
4/23/2024 7:55	67703	WERN_T2	0	0	0	0	0	0	-0.29	-0.31	1	1	0	900	900	0
4/23/2024 7:56	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 7:56	62104	ELAN_T1	0	0	0	0	0	0	0.2	0.22	2	2	0	1500	1500	0
4/23/2024 7:57	10801	CHHI_T1	0	0	0	0	0	0	-1.38	-1.36	2	2	0	1500	1500	0
4/23/2024 7:57	62103	ELAN_T1	1	0	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 7:57	62104	ELAN_T1	0	0	0	0	0	0	0.2	0.22	2	2	0	1500	1500	0
4/23/2024 7:57	56501	ROCK_T2	0	2	2	0	0.15	0.15	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 7:58	10805	CHHI_T2	12	11	-1	1.33	4.65	3.32	-0.5	-0.45	1	1	0	600	600	0
4/23/2024 8:03	11104	EGYP_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
4/23/2024 8:03	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/23/2024 8:07	44301	BEAV_T2	1	2	1	0.8	0.1	-0.7	0.08	-0.15	2	2	0	1500	1500	0
4/23/2024 8:08	56501	ROCK_T2	0	2	2	0	0.55	0.55	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 8:08	56802	BENV_T2	0	1	1	0	0.2	0.2	-1.59	-1.56	0	0	0	0	0	0
4/23/2024 8:09	67601	WARW_T2	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
4/23/2024 8:10	44301	BEAV_T2	1	2	1	0.8	0.1	-0.7	-0.15	-0.24	2	2	0	1500	1500	0
4/23/2024 8:11	44802	EDAN_T2	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
4/23/2024 8:11	10805	CHHI_T2	2	14	12	4.7	1.75	-2.95	-0.45	-0.43	1	1	0	600	600	0
4/23/2024 8:11	44801	EDAN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/23/2024 8:11	56802	BENV_T2	0	1	1	0	0.2	0.2	-1.59	-1.56	0	0	0	0	0	0
4/23/2024 8:12	67605	WARW_T1	13	21	8	0.32	0.51	0.19	-0.9	-0.91	0	0	0	0	0	0
4/23/2024 8:12	45901	AUBU_T1	0	0	0	0	0	0	1.57	1.58	0	0	0	0	0	0
4/23/2024 8:12	56501	ROCK_T2	0	2	2	0	0.55	0.55	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 8:12	44801	EDAN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/23/2024 8:12	44802	EDAN_T2	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
4/23/2024 8:13	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
4/23/2024 8:14	44802	EDAN_T2	0	0	0	0	0	0	-2.66	-2.76	0	0	0	0	0	0
4/23/2024 8:14	44801	EDAN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/23/2024 8:17	67605	WARW_T1	15	26	11	0.42	0.52	0.1	-0.9	-0.91	0	0	0	0	0	0
4/23/2024 8:17	13503	MCMI_T2	28	2	-26	0.18	0.25	0.07	-0.91	-0.95	0	0	0	0	0	0
4/23/2024 8:18	56501	ROCK_T2	2	3	1	0.15	0.55	0.4	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 8:19	13901	SEID_T1	0	0	0	0	0	0	0.26	0.19	0	0	0	0	0	0
4/23/2024 8:19	46301	ROHR_T1	26	183	157	0.17	0.3	0.13	0	0	0	0	0	0	0	0
4/23/2024 8:19	46302	ROHR_T1	5	19	14	1.66	0.68	-0.98	0.17	0.18	0	0	0	0	0	0
4/23/2024 8:20	14801	TREI_T2	0	1	1	0	0.1	0.1	0.41	0.42	0	0	0	0	0	0
4/23/2024 8:21	43301	WATS_T2	0	0	0	0	0	0	-0.74	-0.75	1	1	0	900	900	0
4/23/2024 8:21	43302	WATS_T2	4	0	-4	0.48	0	-0.48	0	0	0	0	0	0	0	0
4/23/2024 8:22	61102	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 8:22	61103	BERK_T5	0	2	2	0	0.25	0.25	-0.01	0.03	0	0	0	0	0	0
4/23/2024 8:22	61101	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 8:23	42701	AUGU_T1	1	3	2	0.7	0.7	0	0	0	2	2	0	1800	1800	0
4/23/2024 8:23	54603	SUMM_T2	0	0	0	0	0	0	-0.08	-0.13	1	1	0	900	900	0
4/23/2024 8:23	54602	SUMM_T2	0	6	6	0	0.18	0.18	0	0	0	0	0	0	0	0
4/23/2024 8:23	54601	SUMM_T2	9	12	3	0.34	0.53	0.19	0	0	0	0	0	0	0	0
4/23/2024 8:23	56501	ROCK_T2	2	3	1	0.15	0.55	0.4	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 8:24	26401	INOR_T1	1	2	1	7.2	7.5	0.3	0.89	1.01	0	0	0	0	0	0
4/23/2024 8:24	61102	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 8:24	61103	BERK_T5	0	2	2	0	0.25	0.25	0.03	0.03	0	0	0	0	0	0
4/23/2024 8:24	61101	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 8:25	67703	WERN_T2	0	0	0	0	0	0	-0.3	0.64	1	0	-1	900	0	-900
4/23/2024 8:25	42701	AUGU_T1	1	3	2	0.7	0.7	0	0	0	2	2	0	1800	1800	0
4/23/2024 8:27	67605	WARW_T1	15	26	11	0.42	0.52	0.1	-0.91	-1.11	0	0	0	0	0	0
4/23/2024 8:29	45701	LIND_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
4/23/2024 8:29	13503	MCMI_T2	28	2	-26	0.18	0.25	0.07	-0.95	-0.01	0	0	0	0	0	0
4/23/2024 8:29	45702	LIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 8:32	67605	WARW_T1	21	42	21	0.51	0.72	0.21	-0.91	-1.11	0	0	0	0	0	0
4/23/2024 8:32	52502	PROG_T2	0	0	0	0	0	0	-1.17	-1.31	2	2	0	1800	1800	0
4/23/2024 8:33	45702	LIND_T2	0	1	1	0	0.2	0.2	-1.69	-1.72	0	0	0	0	0	0
4/23/2024 8:33	52502	PROG_T2	0	0	0	0	0	0	-0.59	-0.66	1	1	0	900	900	0
4/23/2024 8:33	58402	MORO_T1	0	0	0	0	0	0	-0.24	-0.23	2	2	0	1500	1500	0
4/23/2024 8:34	58402	MORO_T1	0	0	0	0	0	0	-0.47	-0.46	4	4	0	3000	3000	0
4/23/2024 8:34	52502	PROG_T2	0	0	0	0	0	0	-0.59	-0.66	1	1	0	900	900	0
4/23/2024 8:36	45902	AUBU_T1	0	1	1	0	0.6	0.6	-0.47	-0.46	1	1	0	600	600	0
4/23/2024 8:40	10701	CATA_T2	0	0	0	0	0	0	-0.62	-0.61	1	1	0	1200	1200	0
4/23/2024 8:40	10702	CATA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/23/2024 8:40	10705	CATA_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/23/2024 8:41	45902	AUBU_T1	0	1	1	0	0.6	0.6	-0.46	-0.46	1	1	0	600	600	0
4/23/2024 8:42	67605	WARW_T1	21	42	21	0.51	0.72	0.21	-1.11	-1.11	0	0	0	0	0	0
4/23/2024 8:47	67605	WARW_T1	26	47	21	0.52	0.7	0.18	-1.11	-1.11	0	0	0	0	0	0
4/23/2024 8:48	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.84	-0.86	0	0	0	0	0	0
4/23/2024 8:48	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 8:48	46302	ROHR_T1	17	81	64	0.66	0.27	-0.39	0.17	0.18	0	0	0	0	0	0
4/23/2024 8:48	46301	ROHR_T1	177	210	33	0.3	0.32	0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/23/2024 8:49	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 8:49	65802	RTWN_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
4/23/2024 8:50	14404	SSLA_T1	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
4/23/2024 8:50	14403	SSLA_T1	0	0	0	0	0	0	0.8	0.74	0	0	0	0	0	0
4/23/2024 8:50	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 8:51	14404	SSLA_T1	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
4/23/2024 8:51	15103	UPHA_T2	0	1	1	0	0.2	0.2	0.4	0.41	0	0	0	0	0	0
4/23/2024 8:51	14403	SSLA_T1	0	0	0	0	0	0	0.8	0.74	0	0	0	0	0	0
4/23/2024 8:51	15104	UPHA_T2	0	0	0	0	0	0	0.76	0.77	0	0	0	0	0	0
4/23/2024 8:51	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.84	-0.86	0	0	0	0	0	0
4/23/2024 8:51	45902	AUBU_T1	1	1	0	0.1	0.9	0.8	-0.46	-0.46	1	1	0	600	600	0
4/23/2024 8:52	15001	BLMO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 8:52	65801	RTWN_T1	0	0	0	0	0	0	-1.07	-1.12	2	2	0	1200	1200	0
4/23/2024 8:52	67401	WAKE_T2	1	0	-1	9	0	-9	0	0	0	0	0	0	0	0
4/23/2024 8:52	67402	WAKE_T2	0	1	1	0	0.1	0.1	0.38	0.36	1	1	0	600	600	0
4/23/2024 8:54	15103	UPHA_T2	0	1	1	0	0.2	0.2	0.41	0.42	0	0	0	0	0	0
4/23/2024 8:54	15001	BLMO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 8:55	15001	BLMO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 8:56	15103	UPHA_T2	0	1	1	0	0.2	0.2	0.41	0.42	0	0	0	0	0	0
4/23/2024 8:57	45902	AUBU_T1	1	1	0	0.1	0.9	0.8	-0.46	-0.45	1	1	0	600	600	0
4/23/2024 8:57	67605	WARW_T1	26	47	21	0.52	0.7	0.18	-1.11	-1.12	0	0	0	0	0	0
4/23/2024 8:57	67605	WARW_T1	26	47	21	0.52	0.7	0.18	-1.11	-1.12	0	0	0	0	0	0
4/23/2024 8:57	67605	WARW_T1	26	47	21	0.52	0.7	0.18	-1.11	-1.12	0	0	0	0	0	0
4/23/2024 8:57	67605	WARW_T1	26	47	21	0.52	0.7	0.18	-1.11	-1.12	0	0	0	0	0	0
4/23/2024 9:02	67605	WARW_T1	42	50	8	0.72	0.67	-0.05	-1.11	-1.12	0	0	0	0	0	0
4/23/2024 9:03	47002	HUGH_T2	4	13	9	0.25	0.36	0.11	0	0	0	0	0	0	0	0
4/23/2024 9:03	47001	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 9:06	51301	WIND_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/23/2024 9:06	51305	WIND_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
4/23/2024 9:06	51303	WIND_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/23/2024 9:07	61103	BERK_T5	5	9	4	0.24	0.22	-0.02	0.04	0.03	0	0	0	0	0	0
4/23/2024 9:07	59102	WALK_T2	5	2	-3	0.24	0.25	0.01	0	0	0	0	0	0	0	0
4/23/2024 9:07	61102	BERK_T5	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
4/23/2024 9:07	61101	BERK_T5	1	2	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
4/23/2024 9:07	45902	AUBU_T1	1	4	3	0.6	0.53	-0.07	-0.46	-0.45	1	1	0	600	600	0
4/23/2024 9:07	59101	WALK_T2	2	0	-2	0.35	0	-0.35	3.36	4.48	2	0	-2	1200	0	-1200
4/23/2024 9:08	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.22	0	0	0	0	0	0
4/23/2024 9:08	67703	WERN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 9:09	59101	WALK_T2	2	0	-2	0.35	0	-0.35	2.24	2.22	1	0	-1	600	0	-600
4/23/2024 9:09	67703	WERN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 9:09	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
4/23/2024 9:09	59102	WALK_T2	5	2	-3	0.24	0.25	0.01	0	0	0	0	0	0	0	0
4/23/2024 9:10	67605	WARW_T1	42	50	8	0.72	0.67	-0.05	-1.12	-1.16	0	0	0	0	0	0
4/23/2024 9:11	67703	WERN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 9:11	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
4/23/2024 9:12	67605	WARW_T1	42	50	8	0.72	0.67	-0.05	-1.12	-1.16	0	0	0	0	0	0
4/23/2024 9:12	67604	WARW_T1	0	0	0	0	0	0	-0.01	0.09	0	0	0	0	0	0
4/23/2024 9:12	45902	AUBU_T1	1	4	3	0.6	0.53	-0.07	-0.45	-0.52	1	1	0	600	600	0
4/23/2024 9:13	67703	WERN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 9:13	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
4/23/2024 9:14	17401	FOHI_T1	0	1	1	0	0.3	0.3	-1.03	-1.07	0	0	0	0	0	0
4/23/2024 9:16	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
4/23/2024 9:16	58401	MORO_T1	0	2	2	0	0.3	0.3	-0.94	-0.99	1	1	0	600	600	0
4/23/2024 9:16	51401	LYKE_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
4/23/2024 9:17	67605	WARW_T1	43	57	14	0.72	0.72	0	-1.12	-1.16	0	0	0	0	0	0
4/23/2024 9:17	64702	LITI_T2	0	0	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
4/23/2024 9:17	67603	WARW_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 9:17	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
4/23/2024 9:18	41902	REED_T1	5	4	-1	0.6	0.5	-0.1	1.09	1.09	0	0	0	0	0	0
4/23/2024 9:18	64702	LITI_T2	0	0	0	0	0	0	-1.38	-1.44	0	0	0	0	0	0
4/23/2024 9:19	58401	MORO_T1	0	2	2	0	0.3	0.3	-0.94	-0.99	1	1	0	600	600	0
4/23/2024 9:20	44601	SALE_T2	0	0	0	0	0	0	1.21	0.55	1	1	0	600	600	0
4/23/2024 9:21	41902	REED_T1	5	4	-1	0.6	0.5	-0.1	1.09	1.09	0	0	0	0	0	0
4/23/2024 9:21	51401	LYKE_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
4/23/2024 9:21	58401	MORO_T1	0	2	2	0	0.3	0.3	-0.94	-0.99	1	1	0	600	600	0
4/23/2024 9:22	67401	WAKE_T2	0	2	2	0	0.25	0.25	-0.87	-0.92	0	0	0	0	0	0
4/23/2024 9:22	41902	REED_T1	5	4	-1	0.6	0.5	-0.1	1.09	1.09	0	0	0	0	0	0
4/23/2024 9:22	67402	WAKE_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 9:23	44601	SALE_T2	0	0	0	0	0	0	1.21	0.55	1	1	0	600	600	0
4/23/2024 9:23	59102	WALK_T2	1	6	5	0.4	0.47	0.07	0	0	0	0	0	0	0	0
4/23/2024 9:23	59101	WALK_T2	0	9	9	0	0.42	0.42	2.22	1.56	0	0	0	0	0	0
4/23/2024 9:24	26001	WDAM_T1	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
4/23/2024 9:26	11405	FARM_T1	0	79	79	0	0.15	0.15	0	0	0	0	0	0	0	0
4/23/2024 9:26	11402	FARM_T1	2	5	3	0.35	0.64	0.29	0	0	0	0	0	0	0	0
4/23/2024 9:26	11404	FARM_T1	1	2	1	0.2	0.45	0.25	0.74	0.73	0	0	0	0	0	0
4/23/2024 9:27	47002	HUGH_T2	3	14	11	0.17	0.35	0.18	0	0	0	0	0	0	0	0
4/23/2024 9:27	47001	HUGH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 9:28	67605	WARW_T1	43	57	14	0.72	0.72	0	-1.16	-1.12	0	0	0	0	0	0
4/23/2024 9:28	67603	WARW_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 9:29	17401	FOHI_T1	0	1	1	0	0.3	0.3	-1.07	-1.05	0	0	0	0	0	0
4/23/2024 9:30	17401	FOHI_T1	1	1	0	0.3	0.3	0	-1.07	-1.05	0	0	0	0	0	0
4/23/2024 9:31	11404	FARM_T1	1	2	1	0.5	0.45	-0.05	0.74	0.73	0	0	0	0	0	0
4/23/2024 9:31	11402	FARM_T1	4	10	6	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
4/23/2024 9:31	11407	FARM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 9:31	11401	FARM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 9:31	11405	FARM_T1	1	79	78	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/23/2024 9:32	67603	WARW_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/23/2024 9:32	67605	WARW_T1	49	63	14	0.63	0.68	0.05	-1.16	-1.12	0	0	0	0	0	0
4/23/2024 9:33	43202	MVIL_T2	121	110	-11	0.84	0.71	-0.13	-0.56	-0.65	0	0	0	0	0	0
4/23/2024 9:34	17002	RIRO_T2	3	5	2	0.77	0.62	-0.15	0.6	0.62	0	0	0	0	0	0
4/23/2024 9:34	13704	SCHN_T2	1	1	0	0.3	0.5	0.2	-0.36	-0.36	0	0	0	0	0	0
4/23/2024 9:36	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 9:36	66502	SMAN_T2	1	4	3	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
4/23/2024 9:36	66504	SMAN_T2	0	0	0	0	0	0	-1.16	-0.98	0	0	0	0	0	0
4/23/2024 9:37	45902	AUBU_T1	4	4	0	0.53	0.53	0	-1.04	-1.01	2	2	0	1200	1200	0
4/23/2024 9:37	29402	BELT_T1	1	2	1	7.8	4.15	-3.65	0	0	0	0	0	0	0	0
4/23/2024 9:37	20403	ASHF_T2	5	11	6	1	0.49	-0.51	0	0	0	0	0	0	0	0
4/23/2024 9:37	29401	BELT_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 9:37	20401	ASHF_T2	1	1	0	1	0.2	-0.8	-1.22	-1.3	0	0	0	0	0	0
4/23/2024 9:37	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 9:37	20402	ASHF_T2	0	5	5	0	0.5	0.5	0	0	0	0	0	0	0	0
4/23/2024 9:37	67203	TEHI_T1	0	0	0	0	0	0	2.39	2.69	2	2	0	1200	1200	0
4/23/2024 9:38	59101	WALK_T2	0	9	9	0	0.42	0.42	1.56	2.27	0	0	0	0	0	0
4/23/2024 9:38	29401	BELT_T1	0	2	2	0	0.2	0.2	0	0	1	1	0	900	900	0
4/23/2024 9:38	20401	ASHF_T2	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
4/23/2024 9:38	29402	BELT_T1	1	2	1	7.8	4.15	-3.65	0	0	0	0	0	0	0	0
4/23/2024 9:38	59102	WALK_T2	2	6	4	0.15	0.47	0.32	0	0	0	0	0	0	0	0
4/23/2024 9:38	20403	ASHF_T2	5	11	6	1	0.49	-0.51	1.29	0.09	0	0	0	0	0	0
4/23/2024 9:38	20402	ASHF_T2	0	5	5	0	0.5	0.5	0	0	0	0	0	0	0	0
4/23/2024 9:39	45902	AUBU_T1	4	4	0	0.53	0.53	0	-1.01	-0.94	2	2	0	1200	1200	0
4/23/2024 9:39	45901	AUBU_T1	0	1	1	0	0.1	0.1	1.6	1.67	0	0	0	0	0	0
4/23/2024 9:40	20402	ASHF_T2	0	5	5	0	0.5	0.5	0	0	0	0	0	0	0	0
4/23/2024 9:40	48302	ORWI_T2	2	2	0	1.5	1.5	0	0	0	0	0	0	0	0	0
4/23/2024 9:40	20401	ASHF_T2	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
4/23/2024 9:40	20403	ASHF_T2	5	11	6	1	0.49	-0.51	1.29	0.09	0	0	0	0	0	0
4/23/2024 9:40	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 9:40	45902	AUBU_T1	4	4	0	0.53	0.53	0	-1.51	-1.41	3	3	0	1800	1800	0
4/23/2024 9:41	59101	WALK_T2	0	9	9	0	0.42	0.42	1.56	2.27	0	0	0	0	0	0
4/23/2024 9:41	59102	WALK_T2	2	6	4	0.15	0.47	0.32	0	0	0	0	0	0	0	0
4/23/2024 9:42	29401	BELT_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 9:42	41801	GOCI_T2	222	277	55	0.39	0.46	0.07	0	0	0	0	0	0	0	0
4/23/2024 9:42	29402	BELT_T1	1	2	1	7.8	4.15	-3.65	0	0	0	0	0	0	0	0
4/23/2024 9:42	41802	GOCI_T2	17	16	-1	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
4/23/2024 9:43	63803	HEMP_T1	2	4	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
4/23/2024 9:43	63801	HEMP_T1	1	3	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/23/2024 9:43	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
4/23/2024 9:43	63804	HEMP_T1	2	2	0	3	3.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 9:44	45902	AUBU_T1	4	4	0	0.53	0.53	0	-0.5	-0.47	1	1	0	600	600	0
4/23/2024 9:44	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
4/23/2024 9:44	63803	HEMP_T1	2	4	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
4/23/2024 9:44	63804	HEMP_T1	2	2	0	3	3.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 9:44	63801	HEMP_T1	1	3	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/23/2024 9:44	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 9:46	55001	NEWP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/23/2024 9:46	55002	NEWP_T1	16	16	0	0.8	1.13	0.33	-0.48	-0.42	0	0	0	0	0	0
4/23/2024 9:47	55001	NEWP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/23/2024 9:47	55002	NEWP_T1	16	16	0	0.8	1.13	0.33	-0.24	-0.21	0	0	0	0	0	0
4/23/2024 9:48	59302	MCAL_T1	4	4	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/23/2024 9:48	58302	NOTT_T1	1	2	1	0.1	0.1	0	-0.33	-0.37	1	1	0	1200	1200	0
4/23/2024 9:48	59301	MCAL_T1	2	4	2	0.6	0.45	-0.15	-1.37	-1.37	1	1	0	600	600	0
4/23/2024 9:49	13704	SCHN_T2	1	1	0	0.5	0.6	0.1	-0.36	-0.38	0	0	0	0	0	0
4/23/2024 9:49	57401	SPAN_T1	12	38	26	0.37	0.37	0	-2.4	-2.43	2	2	0	1200	1200	0
4/23/2024 9:49	13701	SCHN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/23/2024 9:49	57203	ROSS_T1	0	1	1	0	0.2	0.2	-0.37	-0.36	0	0	0	0	0	0
4/23/2024 9:49	57403	SPAN_T1	62	131	69	0.28	0.3	0.02	0	0	0	0	0	0	0	0
4/23/2024 9:49	57205	ROSS_T1	2	4	2	1.15	0.85	-0.3	0	0	0	0	0	0	0	0
4/23/2024 9:50	57403	SPAN_T1	62	131	69	0.28	0.3	0.02	0	0	0	0	0	0	0	0
4/23/2024 9:50	55001	NEWP_T1	0	1	1	0	0.3	0.3	-0.23	-0.19	0	0	0	0	0	0
4/23/2024 9:50	55002	NEWP_T1	16	16	0	0.8	1.13	0.33	0	0	0	0	0	0	0	0
4/23/2024 9:50	26002	WDAM_T1	0	3	3	0	0.53	0.53	0	0	0	0	0	0	0	0
4/23/2024 9:50	26001	WDAM_T1	0	0	0	0	0	0	-0.82	-0.8	0	0	0	0	0	0
4/23/2024 9:50	43202	MVIL_T2	107	102	-5	0.72	0.89	0.17	0	0	0	0	0	0	0	0
4/23/2024 9:50	57401	SPAN_T1	12	38	26	0.37	0.37	0	-3.6	-3.65	3	3	0	1800	1800	0
4/23/2024 9:50	43201	MVIL_T2	0	1	1	0	0.1	0.1	-0.38	-0.38	0	0	0	0	0	0
4/23/2024 9:51	57203	ROSS_T1	0	1	1	0	0.2	0.2	-0.37	-0.36	0	0	0	0	0	0
4/23/2024 9:51	57205	ROSS_T1	2	4	2	1.15	0.85	-0.3	0	0	0	0	0	0	0	0
4/23/2024 9:51	56501	ROCK_T2	5	5	0	1.94	1.54	-0.4	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 9:51	56504	ROCK_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
4/23/2024 9:52	57403	SPAN_T1	62	131	69	0.28	0.3	0.02	0	0	0	0	0	0	0	0
4/23/2024 9:52	57401	SPAN_T1	12	38	26	0.37	0.37	0	-1.2	-1.22	1	1	0	600	600	0
4/23/2024 9:52	56501	ROCK_T2	5	5	0	1.94	1.54	-0.4	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 9:52	56504	ROCK_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
4/23/2024 9:53	57401	SPAN_T1	12	38	26	0.37	0.37	0	-1.22	-1.22	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/23/2024 9:53	57403	SPAN_T1	62	131	69	0.28	0.3	0.02	0	0	0	0	0	0	0	0
4/23/2024 9:54	57403	SPAN_T1	62	131	69	0.28	0.3	0.02	0	0	0	0	0	0	0	0
4/23/2024 9:54	57401	SPAN_T1	12	38	26	0.37	0.37	0	-1.22	-1.22	1	1	0	600	600	0
4/23/2024 9:54	20401	ASHF_T2	1	2	1	0.7	0.15	-0.55	0	0	0	0	0	0	0	0
4/23/2024 9:54	20403	ASHF_T2	10	42	32	0.78	0.3	-0.48	0.09	-0.02	0	0	0	0	0	0
4/23/2024 9:54	56501	ROCK_T2	5	5	0	1.94	1.54	-0.4	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 9:54	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 9:54	20402	ASHF_T2	4	2	-2	0.18	0.65	0.47	0	0	0	0	0	0	0	0
4/23/2024 9:54	56504	ROCK_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
4/23/2024 9:54	45902	AUBU_T1	4	3	-1	0.53	0.7	0.17	-0.47	-0.5	1	1	0	600	600	0
4/23/2024 9:55	45901	AUBU_T1	0	1	1	0	0.1	0.1	1.67	1.68	0	0	0	0	0	0
4/23/2024 9:55	45902	AUBU_T1	4	3	-1	0.53	0.7	0.17	0	0	0	0	0	0	0	0
4/23/2024 9:55	22101	EDEL_T2	2	2	0	0.6	0.95	0.35	0.38	0.32	1	1	0	1200	1200	0
4/23/2024 9:56	45902	AUBU_T1	4	3	-1	0.53	0.7	0.17	-0.47	-0.5	1	1	0	600	600	0
4/23/2024 9:56	20402	ASHF_T2	4	2	-2	0.18	0.65	0.47	0	0	0	0	0	0	0	0
4/23/2024 9:56	20401	ASHF_T2	1	2	1	0.7	0.15	-0.55	0	0	0	0	0	0	0	0
4/23/2024 9:56	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 9:56	20403	ASHF_T2	10	42	32	0.78	0.3	-0.48	0.09	-0.02	0	0	0	0	0	0
4/23/2024 9:57	63801	HEMP_T1	1	3	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/23/2024 9:57	57403	SPAN_T1	62	131	69	0.28	0.3	0.02	0	0	0	0	0	0	0	0
4/23/2024 9:57	63804	HEMP_T1	1	2	1	5.9	3.3	-2.6	0	0	0	0	0	0	0	0
4/23/2024 9:57	57401	SPAN_T1	12	38	26	0.37	0.37	0	-1.22	-1.22	1	1	0	600	600	0
4/23/2024 9:57	63803	HEMP_T1	2	4	2	0.3	0.33	0.03	0.06	0.06	0	0	0	0	0	0
4/23/2024 9:58	56504	ROCK_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
4/23/2024 9:58	56501	ROCK_T2	5	5	0	1.94	1.54	-0.4	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 9:58	63804	HEMP_T1	1	2	1	5.9	3.3	-2.6	0	0	0	0	0	0	0	0
4/23/2024 9:58	40101	HUNT_T2	0	1	1	0	0.1	0.1	-0.37	-0.41	0	0	0	0	0	0
4/23/2024 9:58	63803	HEMP_T1	2	4	2	0.3	0.33	0.03	0.06	0.06	0	0	0	0	0	0
4/23/2024 9:58	63801	HEMP_T1	1	3	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/23/2024 10:00	27503	WEIS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/23/2024 10:00	17001	RIRO_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
4/23/2024 10:00	40505	CRES_T1	3	4	1	5.4	4.13	-1.27	0.43	0.35	0	0	0	0	0	0
4/23/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.75	1.73	0	0	0	0	0	0
4/23/2024 10:00	46004	BERW_T2	0	1	1	0	0.2	0.2	-0.13	-0.15	0	0	0	0	0	0
4/23/2024 10:00	42902	MIDD_T2	18	15	-3	0.44	0.47	0.03	0	0	0	0	0	0	0	0
4/23/2024 10:00	65702	RVIL_T2	0	5	5	0	0.28	0.28	-0.59	-0.6	0	0	0	0	0	0
4/23/2024 10:00	53903	HALI_T2	5	12	7	0.62	0.61	-0.01	0	0	0	0	0	0	0	0
4/23/2024 10:00	40703	FFLD_T1	4	4	0	0.3	0.28	-0.02	0.29	0.3	0	0	0	0	0	0
4/23/2024 10:00	52502	PROG_T2	0	1	1	0	0	0	0.49	0.48	0	0	0	0	0	0
4/23/2024 10:00	53901	HALI_T2	1	4	3	1	0.58	-0.42	-0.45	-0.4	0	0	0	0	0	0
4/23/2024 10:00	16102	BING_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:00	54001	SDLE_T1	3	10	7	0.63	0.49	-0.14	0	0	0	0	0	0	0	0
4/23/2024 10:00	62105	ELAN_T1	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
4/23/2024 10:00	53501	EVIL_T2	2	3	1	0.75	0.7	-0.05	0.54	0.62	3	3	0	1800	1800	0
4/23/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	0.12	0.35	1	1	0	600	600	0
4/23/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
4/23/2024 10:00	61304	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 10:00	13903	SEID_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:00	65005	NEFF_T2	3	123	120	0.47	0.18	-0.29	0	0	0	0	0	0	0	0
4/23/2024 10:00	24103	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 10:00	66303	MCGO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:00	57103	SPHI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:00	64304	LINC_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/23/2024 10:00	67701	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.13	-0.15	2	2	0	1500	1500	0
4/23/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	1.47	1.62	0	0	0	0	0	0
4/23/2024 10:00	54601	SUMM_T2	13	9	-4	0.6	0.37	-0.23	0	0	0	0	0	0	0	0
4/23/2024 10:00	15103	UPHA_T2	2	4	2	0.6	0.55	-0.05	0.37	0.38	0	0	0	0	0	0
4/23/2024 10:00	24105	EHAZ_T1	4	4	0	5.48	5.55	0.07	-2.02	-2	1	1	0	1200	1200	0
4/23/2024 10:00	65001	NEFF_T2	258	290	32	0.29	0.59	0.3	-0.45	-0.42	1	1	0	1200	1200	0
4/23/2024 10:00	58101	NEKI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:00	24104	EHAZ_T1	3	1	-2	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
4/23/2024 10:00	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:00	43103	SMIL_T2	17	18	1	0.43	0.72	0.29	0	0	0	0	0	0	0	0
4/23/2024 10:00	12601	MACA_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
4/23/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-1.5	-1.48	0	0	0	0	0	0
4/23/2024 10:00	43102	SMIL_T2	4	6	2	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
4/23/2024 10:00	61302	EARL_T1	1	1	0	0.5	0.7	0.2	0.76	0.83	2	2	0	1800	1800	0
4/23/2024 10:00	62607	ENGL_T1	2	3	1	0.35	0.33	-0.02	-1.21	-1.21	1	1	0	300	300	0
4/23/2024 10:00	42903	MIDD_T2	0	0	0	0	0	0	0.3	0.49	1	1	0	1200	1200	0
4/23/2024 10:00	66302	MCGO_T2	1	3	2	0.1	0.37	0.27	-0.68	-0.76	1	1	0	600	600	0
4/23/2024 10:00	53902	HALI_T2	3	5	2	2.23	1.64	-0.59	0	0	0	0	0	0	0	0
4/23/2024 10:00	67702	WERN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
4/23/2024 10:00	54602	SUMM_T2	0	0	0	0	0	0	-1.21	-1.2	1	1	0	600	600	0
4/23/2024 10:00	67001	STHI_T2	519	893	374	0.26	0.4	0.14	0	0	0	0	0	0	0	0
4/23/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
4/23/2024 10:00	14602	SWHI_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/23/2024 10:00	40201	BEGA_T2	2	1	-1	0.45	1.7	1.25	0	0	0	0	0	0	0	0
4/23/2024 10:00	63804	HEMP_T1	2	1	-1	3.3	6.6	3.3	0	0	0	0	0	0	0	0
4/23/2024 10:00	59101	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:00	63801	HEMP_T1	3	2	-1	0.23	0.2	-0.03	0.29	0.42	0	0	0	0	0	0
4/23/2024 10:00	40702	FFLD_T1	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
4/23/2024 10:00	10805	CHHI_T2	1	7	6	8.4	1.41	-6.99	-0.57	-0.67	1	1	0	600	600	0
4/23/2024 10:00	13503	MCMI_T2	1	1	0	0.9	1.3	0.4	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 10:00	13807	SALI_T1	4	4	0	0.53	0.7	0.17	0	0	0	0	0	0	0	0
4/23/2024 10:00	22404	MORG_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/23/2024 10:00	44502	HAMI_T2	2	2	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:00	58102	NEKI_T1	2	2	0	0.8	0.5	-0.3	0.26	0.21	0	0	0	0	0	0
4/23/2024 10:00	52003	LING_T1	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
4/23/2024 10:00	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:00	40701	FFLD_T1	50	62	12	0.37	0.32	-0.05	0	0	0	0	0	0	0	0
4/23/2024 10:00	14603	SWHI_T1	6	11	5	0.72	0.65	-0.07	0	0	0	0	0	0	0	0
4/23/2024 10:00	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-1.12	-1.24	0	0	0	0	0	0
4/23/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-0.93	-0.95	0	0	0	0	0	0
4/23/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
4/23/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.38	-0.25	2	2	0	1200	1200	0
4/23/2024 10:00	45902	AUBU_T1	1	7	6	1.5	0.41	-1.09	-0.47	-0.5	1	1	0	600	600	0
4/23/2024 10:00	22405	MORG_T2	0	1	1	0	0.1	0.1	-1.54	-1.53	0	0	0	0	0	0
4/23/2024 10:00	67605	WARW_T1	57	78	21	0.65	0.69	0.04	0	0	0	0	0	0	0	0
4/23/2024 10:00	67002	STHI_T2	273	688	415	0.21	0.3	0.09	0.66	0.73	0	0	0	0	0	0
4/23/2024 10:00	67604	WARW_T1	0	3	3	0	0.2	0.2	0.03	0.14	0	0	0	0	0	0
4/23/2024 10:00	44505	HAMI_T2	1	2	1	0.1	0.6	0.5	0.47	0.43	0	0	0	0	0	0
4/23/2024 10:00	22102	EDEL_T1	2	13	11	0.25	0.14	-0.11	-0.62	-1.03	1	1	0	1200	1200	0
4/23/2024 10:00	67603	WARW_T1	1	4	3	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/23/2024 10:00	16101	BING_T2	0	1	1	0	0.1	0.1	0.32	0.31	0	0	0	0	0	0
4/23/2024 10:00	13803	SALI_T1	0	0	0	0	0	0	0.15	0.25	2	2	0	2400	2400	0
4/23/2024 10:00	56504	ROCK_T2	1	3	2	0.3	0.53	0.23	0	0	0	0	0	0	0	0
4/23/2024 10:00	17002	RIRO_T2	5	5	0	0.56	0.7	0.14	0.65	0.65	0	0	0	0	0	0
4/23/2024 10:00	12605	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:00	22104	EDEL_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/23/2024 10:00	60501	NMAN_T2	5	6	1	3.52	2.92	-0.6	0	0	0	0	0	0	0	0
4/23/2024 10:00	17101	WTRE_T2	2	3	1	9.05	6.2	-2.85	0	0	0	0	0	0	0	0
4/23/2024 10:00	56501	ROCK_T2	4	6	2	2.93	1.45	-1.48	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 10:00	42002	MNVL_T2	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:00	57101	SPHI_T2	6	8	2	0.92	0.89	-0.03	0	0	0	0	0	0	0	0
4/23/2024 10:00	67401	WAKE_T2	3	3	0	0.13	0.27	0.14	0	0	0	0	0	0	0	0
4/23/2024 10:00	45501	DERR_T2	1	2	1	0.3	0.15	-0.15	0.59	0.6	2	2	0	1800	1800	0
4/23/2024 10:00	47101	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 10:00	42201	SHEN_T2	0	1	1	0	0.1	0.1	-0.21	-0.19	1	1	0	600	600	0
4/23/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	0.07	0.01	1	1	0	1200	1200	0
4/23/2024 10:00	13901	SEID_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
4/23/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
4/23/2024 10:00	57104	SPHI_T2	2	4	2	0.25	0.53	0.28	-1.17	-1.18	0	0	0	0	0	0
4/23/2024 10:00	67402	WAKE_T2	1	2	1	0.2	0.3	0.1	0.61	0.59	2	2	0	1200	1200	0
4/23/2024 10:00	13902	SEID_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/23/2024 10:00	52001	LING_T1	1	1	0	0.2	0.4	0.2	0.19	0.2	0	0	0	0	0	0
4/23/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.03	0.07	0	0	0	0	0	0
4/23/2024 10:00	42001	MNVL_T2	6	8	2	0.37	0.5	0.13	-0.01	-0.04	0	0	0	0	0	0
4/23/2024 10:00	48303	ORWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 10:00	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-1.19	-1.37	2	2	0	2100	2100	0
4/23/2024 10:00	43304	WATS_T2	0	0	0	0	0	0	-1.06	-1.18	0	0	0	0	0	0
4/23/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.38	-0.23	1	1	0	600	600	0
4/23/2024 10:00	58401	MORO_T1	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
4/23/2024 10:00	50701	SMEC_T1	4	5	1	0.43	0.7	0.27	0.14	0.09	0	0	0	0	0	0
4/23/2024 10:00	65002	NEFF_T2	175	758	583	0.16	0.29	0.13	0	0	0	0	0	0	0	0
4/23/2024 10:00	12807	MICK_T1	1	2	1	0.8	0.5	-0.3	0.19	0.23	0	0	0	0	0	0
4/23/2024 10:00	12604	MACA_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
4/23/2024 10:00	65004	NEFF_T2	226	771	545	0.16	0.31	0.15	0	0	0	0	0	0	0	0
4/23/2024 10:00	29402	BELT_T1	2	4	2	4.15	2.23	-1.92	0	0	0	0	0	0	0	0
4/23/2024 10:00	63803	HEMP_T1	4	3	-1	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
4/23/2024 10:00	53502	EVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/23/2024 10:00	27502	WEIS_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
4/23/2024 10:00	60504	NMAN_T2	2	1	-1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
4/23/2024 10:00	53801	MBRG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:00	43101	SMIL_T2	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/23/2024 10:00	29401	BELT_T1	1	2	1	0.2	0.15	-0.05	0	0	3	3	0	2700	2700	0
4/23/2024 10:00	43105	SMIL_T2	2	2	0	0.65	0.75	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:00	16103	BING_T2	1	1	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
4/23/2024 10:00	64303	LINC_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:00	63306	GREE_T1	0	0	0	0	0	0	-1.19	-1.2	0	0	0	0	0	0
4/23/2024 10:00	64801	MONE_T2	2	3	1	0.4	0.57	0.17	0.22	0.17	0	0	0	0	0	0
4/23/2024 10:00	43302	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 10:00	67703	WERN_T2	0	2	2	0	0.45	0.45	0.66	0.67	0	0	0	0	0	0
4/23/2024 10:00	24102	EHAZ_T1	1	2	1	0.1	1.5	1.4	0	0	0	0	0	0	0	0
4/23/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	1.01	1.05	0	0	0	0	0	0
4/23/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/23/2024 10:00	56601	HAMP_T1	1	4	3	0.3	0.3	0	-1.82	-1.96	0	0	0	0	0	0
4/23/2024 10:00	14601	SWHI_T1	3	5	2	0.27	0.32	0.05	-0.39	-0.4	0	0	0	0	0	0
4/23/2024 10:00	59102	WALK_T2	1	6	5	0.2	0.37	0.17	-0.44	-0.24	2	2	0	1200	1200	0
4/23/2024 10:00	43104	SMIL_T2	2	2	0	0.25	0.45	0.2	-0.84	-0.82	1	1	0	300	300	0
4/23/2024 10:00	64802	MONE_T2	5	18	13	0.22	0.31	0.09	0	0	0	0	0	0	0	0
4/23/2024 10:00	62605	ENGL_T1	3	2	-1	0.37	0.35	-0.02	-0.87	-0.84	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/23/2024 10:00	45702	LIND_T2	1	2	1	0.5	0.65	0.15	-1.76	-1.74	0	0	0	0	0	0
4/23/2024 10:00	13805	SALI_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/23/2024 10:00	48302	ORWI_T2	2	2	0	1.5	1.55	0.05	0.03	0.02	0	0	0	0	0	0
4/23/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.33	-0.21	0	0	0	0	0	0
4/23/2024 10:00	44601	SALE_T2	1	0	-1	0.2	0	-0.2	0.35	0.02	1	1	0	600	600	0
4/23/2024 10:00	65003	NEFF_T2	242	458	216	0.27	0.44	0.17	0	0	0	0	0	0	0	0
4/23/2024 10:00	22401	MORG_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/23/2024 10:00	57106	SPHI_T2	2	3	1	1.4	1.17	-0.23	0	0	0	0	0	0	0	0
4/23/2024 10:01	50201	HARR_T3	1	2	1	1	0.75	-0.25	-1.05	-1.05	1	1	0	1200	1200	0
4/23/2024 10:01	50105	HARR_T3	6	6	0	5.88	5.82	-0.06	0	0	0	0	0	0	0	0
4/23/2024 10:01	50103	HARR_T3	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:02	50105	HARR_T3	6	6	0	5.88	5.82	-0.06	0	0	0	0	0	0	0	0
4/23/2024 10:02	50103	HARR_T3	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:02	50201	HARR_T3	1	2	1	1	0.75	-0.25	-1.05	-1.05	1	1	0	1200	1200	0
4/23/2024 10:05	57602	RUTH_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:05	57601	RUTH_T2	3	6	3	0.2	0.52	0.32	-0.57	-0.59	0	0	0	0	0	0
4/23/2024 10:05	57603	RUTH_T2	6	13	7	0.37	0.4	0.03	0	0	0	0	0	0	0	0
4/23/2024 10:06	50505	MECH_T1	0	0	0	0	0	0	-0.95	-0.97	0	0	0	0	0	0
4/23/2024 10:06	50506	MECH_T1	1	2	1	1.3	0.7	-0.6	0	0	0	0	0	0	0	0
4/23/2024 10:06	40501	CRES_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/23/2024 10:06	50501	MECH_T1	4	4	0	0.45	0.48	0.03	0	0	0	0	0	0	0	0
4/23/2024 10:06	50502	MECH_T1	1	1	0	2	1.9	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:06	57601	RUTH_T2	3	6	3	0.2	0.52	0.32	-0.57	-0.59	0	0	0	0	0	0
4/23/2024 10:06	60801	BUCK_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
4/23/2024 10:06	50504	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 10:06	58803	COCO_T1	1	1	0	3	3	0	0	0	0	0	0	0	0	0
4/23/2024 10:06	50503	MECH_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
4/23/2024 10:06	57602	RUTH_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:06	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.37	-0.41	0	0	0	0	0	0
4/23/2024 10:06	57603	RUTH_T2	6	13	7	0.37	0.4	0.03	0	0	0	0	0	0	0	0
4/23/2024 10:07	52004	LING_T2	3	6	3	0.47	0.52	0.05	0.28	0.28	0	0	0	0	0	0
4/23/2024 10:07	52002	LING_T2	2	3	1	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
4/23/2024 10:07	25603	ARRO_T1	1	1	0	0.3	0.7	0.4	-0.17	-0.15	0	0	0	0	0	0
4/23/2024 10:07	44601	SALE_T2	1	0	-1	0.2	0	-0.2	0.35	0.02	1	1	0	600	600	0
4/23/2024 10:07	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:07	52502	PROG_T2	0	1	1	0	0	0	0.49	0.48	0	0	0	0	0	0
4/23/2024 10:07	67604	WARW_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 10:07	67603	WARW_T1	1	4	3	0.2	0.5	0.3	-0.02	0.03	0	0	0	0	0	0
4/23/2024 10:07	52006	LING_T2	4	5	1	0.65	0.76	0.11	0	0	0	0	0	0	0	0
4/23/2024 10:07	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.37	-0.41	0	0	0	0	0	0
4/23/2024 10:07	45902	AUBU_T1	1	7	6	1.5	0.41	-1.09	-0.47	-0.5	1	1	0	600	600	0
4/23/2024 10:07	67605	WARW_T1	57	78	21	0.65	0.69	0.04	0	0	0	0	0	0	0	0
4/23/2024 10:08	12601	MACA_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
4/23/2024 10:08	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/23/2024 10:08	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:08	58402	MORO_T1	0	0	0	0	0	0	-0.15	-0.12	2	2	0	1500	1500	0
4/23/2024 10:08	46005	BERW_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/23/2024 10:08	51004	NHAR_T1	15	17	2	1.28	1.26	-0.02	0	0	0	0	0	0	0	0
4/23/2024 10:08	56504	ROCK_T2	1	3	2	0.3	0.53	0.23	0	0	0	0	0	0	0	0
4/23/2024 10:08	60801	BUCK_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
4/23/2024 10:08	45602	WOOL_T1	6	7	1	0.48	0.51	0.03	0.47	0.49	0	0	0	0	0	0
4/23/2024 10:08	42301	MOWR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:08	12604	MACA_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
4/23/2024 10:08	58401	MORO_T1	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
4/23/2024 10:08	42302	MOWR_T2	0	0	0	0	0	0	0.06	-0.05	0	0	0	0	0	0
4/23/2024 10:08	67701	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:08	56501	ROCK_T2	4	6	2	2.93	1.45	-1.48	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 10:08	51003	NHAR_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/23/2024 10:08	51002	NHAR_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:08	29402	BELT_T1	2	4	2	4.15	2.23	-1.92	0	0	0	0	0	0	0	0
4/23/2024 10:08	67702	WERN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
4/23/2024 10:08	44301	BEAV_T2	3	4	1	0.4	0.7	0.3	0.13	0.44	2	2	0	1500	1500	0
4/23/2024 10:08	45902	AUBU_T1	1	7	6	1.5	0.41	-1.09	-0.5	-0.45	1	1	0	600	600	0
4/23/2024 10:08	16402	MOPO_T1	0	0	0	0	0	0	0.06	0.12	0	0	0	0	0	0
4/23/2024 10:08	29401	BELT_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/23/2024 10:08	67703	WERN_T2	0	2	2	0	0.45	0.45	0.67	0.64	0	0	0	0	0	0
4/23/2024 10:08	12605	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:08	46001	BERW_T1	0	0	0	0	0	0	1.07	1.18	0	0	0	0	0	0
4/23/2024 10:09	43301	WATS_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
4/23/2024 10:09	16102	BING_T2	1	1	0	0.2	0.1	-0.1	-0.85	-0.78	1	1	0	1200	1200	0
4/23/2024 10:09	67401	WAKE_T2	3	3	0	0.13	0.27	0.14	-0.9	-0.89	0	0	0	0	0	0
4/23/2024 10:09	29401	BELT_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/23/2024 10:09	58003	WCAR_T1	2	1	-1	0.6	1.5	0.9	0	0.77	1	1	0	600	600	0
4/23/2024 10:09	43302	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 10:09	67201	TEHI_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/23/2024 10:09	10801	CHHI_T1	4	8	4	0.38	0.56	0.18	-2.61	-2.64	3	3	0	2700	2700	0
4/23/2024 10:09	58001	WCAR_T1	4	5	1	0.85	1	0.15	0	0	0	0	0	0	0	0
4/23/2024 10:09	67203	TEHI_T1	0	0	0	0	0	0	2.57	2.74	2	2	0	1200	1200	0
4/23/2024 10:09	45602	WOOL_T1	6	7	1	0.48	0.51	0.03	0.49	0.44	0	0	0	0	0	0
4/23/2024 10:09	45902	AUBU_T1	1	7	6	1.5	0.41	-1.09	-0.5	-0.45	1	1	0	600	600	0
4/23/2024 10:09	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:09	16101	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:09	67402	WAKE_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:09	29402	BELT_T1	2	4	2	4.15	2.23	-1.92	0	0	0	0	0	0	0	0
4/23/2024 10:09	16103	BING_T2	1	1	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
4/23/2024 10:10	26401	INOR_T1	1	2	1	7.6	4.3	-3.3	0.99	0.97	0	0	0	0	0	0
4/23/2024 10:10	29402	BELT_T1	2	4	2	4.15	2.23	-1.92	0	0	0	0	0	0	0	0
4/23/2024 10:10	29401	BELT_T1	1	2	1	0.2	0.15	-0.05	0	0	1	1	0	900	900	0
4/23/2024 10:10	53601	DALM_T2	0	1	1	0	0.3	0.3	-0.29	-0.29	1	1	0	900	900	0
4/23/2024 10:11	45902	AUBU_T1	1	7	6	1.5	0.41	-1.09	-0.5	-0.45	1	1	0	600	600	0
4/23/2024 10:11	10805	CHHI_T2	1	7	6	8.4	1.41	-6.99	-0.67	-0.5	1	1	0	600	600	0
4/23/2024 10:11	43301	WATS_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
4/23/2024 10:11	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:11	43302	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 10:11	26401	INOR_T1	1	2	1	7.6	4.3	-3.3	0.99	0.97	0	0	0	0	0	0
4/23/2024 10:13	12003	HATF_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
4/23/2024 10:13	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:13	63803	HEMP_T1	4	3	-1	0.33	0.3	-0.03	0.12	0.1	0	0	0	0	0	0
4/23/2024 10:13	12001	HATF_T1	1	2	1	0.5	0.1	-0.4	-0.67	-0.72	2	2	0	1800	1800	0
4/23/2024 10:13	62605	ENGL_T1	3	2	-1	0.37	0.35	-0.02	-0.84	-0.82	0	0	0	0	0	0
4/23/2024 10:13	12002	HATF_T1	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
4/23/2024 10:13	62607	ENGL_T1	2	3	1	0.35	0.33	-0.02	-1.21	-1.2	1	1	0	300	300	0
4/23/2024 10:13	63804	HEMP_T1	2	1	-1	3.3	6.6	3.3	0	0	0	0	0	0	0	0
4/23/2024 10:13	12006	HATF_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 10:13	63801	HEMP_T1	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
4/23/2024 10:14	12003	HATF_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
4/23/2024 10:14	64301	LIND_T2	0	0	0	0	0	0	0.32	0.38	0	0	0	0	0	0
4/23/2024 10:14	62605	ENGL_T1	3	2	-1	0.37	0.35	-0.02	-0.84	-0.82	0	0	0	0	0	0
4/23/2024 10:14	64303	LINC_T1	1	1	0	0.2	0.3	0.1	-0.26	-0.27	0	0	0	0	0	0
4/23/2024 10:14	24902	WHHA_T1	139	13	-126	0.78	0.69	-0.09	0	0	0	0	0	0	0	0
4/23/2024 10:14	61803	EELI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/23/2024 10:14	12006	HATF_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 10:14	20603	GRWO_T2	3	4	1	0.97	0.65	-0.32	0.41	0.41	0	0	0	0	0	0
4/23/2024 10:14	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:14	64702	LITI_T2	0	0	0	0	0	0	-0.81	-0.68	0	0	0	0	0	0
4/23/2024 10:14	24901	WHHA_T1	3	4	1	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
4/23/2024 10:14	11804	FRAN_T1	1	3	2	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
4/23/2024 10:14	62607	ENGL_T1	2	3	1	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
4/23/2024 10:14	11805	FRAN_T1	1	3	2	0.7	0.57	-0.13	-1.06	-1.1	1	1	0	1200	1200	0
4/23/2024 10:14	45702	LIND_T2	1	2	1	0.5	0.65	0.15	0	0	0	0	0	0	0	0
4/23/2024 10:14	12002	HATF_T1	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
4/23/2024 10:14	12001	HATF_T1	1	2	1	0.5	0.1	-0.4	-0.67	-0.72	2	2	0	1800	1800	0
4/23/2024 10:14	61801	EELI_T2	4	6	2	0.43	0.3	-0.13	-0.32	-0.32	0	0	0	0	0	0
4/23/2024 10:15	64702	LITI_T2	0	1	1	0	0	0	-0.81	-0.68	0	0	0	0	0	0
4/23/2024 10:16	64702	LITI_T2	0	1	1	0	0	0	-0.81	-0.68	0	0	0	0	0	0
4/23/2024 10:16	17401	FOHI_T1	2	2	0	0.25	0.3	0.05	-1.04	-1.06	0	0	0	0	0	0
4/23/2024 10:16	63801	HEMP_T1	1	4	3	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:16	45702	LIND_T2	2	2	0	0.4	0.55	0.15	-1.74	-1.74	0	0	0	0	0	0
4/23/2024 10:16	43202	MVIL_T2	100	101	1	0.91	0.99	0.08	0	0	0	0	0	0	0	0
4/23/2024 10:16	63803	HEMP_T1	2	3	1	0.35	0.4	0.05	0.06	0.05	0	0	0	0	0	0
4/23/2024 10:16	43201	MVIL_T2	1	1	0	0.1	0.4	0.3	-0.39	-0.4	0	0	0	0	0	0
4/23/2024 10:16	63804	HEMP_T1	1	1	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
4/23/2024 10:17	45702	LIND_T2	2	2	0	0.4	0.55	0.15	-1.74	-1.74	0	0	0	0	0	0
4/23/2024 10:18	13502	MCMI_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/23/2024 10:18	23002	SAJO_T1	1	1	0	1.7	1.2	-0.5	0	0	0	0	0	0	0	0
4/23/2024 10:18	23001	SAJO_T1	0	0	0	0	0	0	-0.84	-0.9	0	0	0	0	0	0
4/23/2024 10:18	13501	MCMI_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
4/23/2024 10:18	45702	LIND_T2	2	2	0	0.4	0.55	0.15	-1.74	-1.74	0	0	0	0	0	0
4/23/2024 10:19	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
4/23/2024 10:19	14403	SSLA_T1	3	3	0	0.3	0.2	-0.1	0.72	0.7	0	0	0	0	0	0
4/23/2024 10:19	40302	TAMA_T3	48	42	-6	0.5	0.42	-0.08	0.27	0.26	0	0	0	0	0	0
4/23/2024 10:19	14404	SSLA_T1	4	5	1	1.68	1.34	-0.34	0	0	0	0	0	0	0	0
4/23/2024 10:19	42001	MNVL_T2	5	8	3	0.54	0.49	-0.05	-0.04	-0.04	0	0	0	0	0	0
4/23/2024 10:19	65503	MOJO_T2	2	10	8	0.25	0.41	0.16	-0.39	-0.35	0	0	0	0	0	0
4/23/2024 10:19	14402	SSLA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 10:19	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 10:19	40303	TAMA_T3	6	6	0	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
4/23/2024 10:19	13502	MCMI_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/23/2024 10:19	42002	MNVL_T2	1	2	1	4.9	2.6	-2.3	0	0	0	0	0	0	0	0
4/23/2024 10:19	14401	SSLA_T1	1	2	1	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
4/23/2024 10:20	14401	SSLA_T1	1	2	1	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
4/23/2024 10:20	14403	SSLA_T1	3	3	0	0.3	0.2	-0.1	0.72	0.7	0	0	0	0	0	0
4/23/2024 10:20	43202	MVIL_T2	100	101	1	0.91	0.99	0.08	-0.64	-0.64	0	0	0	0	0	0
4/23/2024 10:20	42902	MIDD_T2	11	24	13	0.36	0.44	0.08	-0.97	-0.98	1	1	0	600	600	0
4/23/2024 10:20	14402	SSLA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 10:20	14404	SSLA_T1	4	5	1	1.68	1.34	-0.34	-0.03	0.01	0	0	0	0	0	0
4/23/2024 10:20	43201	MVIL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/23/2024 10:21	49803	UNIV_T1	1	1	0	0.5	1.3	0.8	-1.04	-1.08	0	0	0	0	0	0
4/23/2024 10:21	26002	WDAM_T1	3	3	0	0.47	0.37	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:21	29402	BELT_T1	2	6	4	4.35	1.67	-2.68	0	0	0	0	0	0	0	0
4/23/2024 10:21	12101	SALL_T2	8	17	9	0.58	0.52	-0.06	0	0	0	0	0	0	0	0
4/23/2024 10:21	12102	SALL_T2	5	6	1	0.74	0.73	-0.01	0.12	0.12	0	0	0	0	0	0
4/23/2024 10:21	29401	BELT_T1	0	3	3	0	0.27	0.27	0	0	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/23/2024 10:21	26001	WDAM_T1	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
4/23/2024 10:22	14403	SSLA_T1	3	3	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:22	65904	SAKR_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
4/23/2024 10:22	14404	SSLA_T1	4	5	1	1.68	1.34	-0.34	-0.03	0.01	0	0	0	0	0	0
4/23/2024 10:22	65901	SAKR_T2	2	2	0	5.1	5.55	0.45	-1.25	-1.26	1	1	0	900	900	0
4/23/2024 10:22	14401	SSLA_T1	1	2	1	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
4/23/2024 10:22	53903	HALI_T2	7	13	6	0.51	0.66	0.15	0	0	0	0	0	0	0	0
4/23/2024 10:22	53901	HALI_T2	4	4	0	0.43	0.58	0.15	-0.4	-0.43	0	0	0	0	0	0
4/23/2024 10:22	53902	HALI_T2	3	5	2	2.3	1.66	-0.64	0	0	0	0	0	0	0	0
4/23/2024 10:22	58401	MORO_T1	2	1	-1	0.2	0.2	0	-1.05	-1.06	1	1	0	600	600	0
4/23/2024 10:22	14402	SSLA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 10:23	15104	UPHA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 10:23	12102	SALL_T2	5	6	1	0.74	0.73	-0.01	0.12	0.12	0	0	0	0	0	0
4/23/2024 10:23	15103	UPHA_T2	2	4	2	0.7	0.63	-0.07	0.38	0.4	0	0	0	0	0	0
4/23/2024 10:23	20403	ASHF_T2	40	25	-15	0.3	0.63	0.33	0.71	1.07	0	0	0	0	0	0
4/23/2024 10:23	20401	ASHF_T2	2	1	-1	0.15	0.6	0.45	0	0	0	0	0	0	0	0
4/23/2024 10:23	24603	VARD_T2	17	19	2	0.74	0.78	0.04	0	0	0	0	0	0	0	0
4/23/2024 10:23	24602	VARD_T2	30	22	-8	0.23	0.25	0.02	-0.01	0.03	0	0	0	0	0	0
4/23/2024 10:23	12101	SALL_T2	8	17	9	0.58	0.52	-0.06	0	0	0	0	0	0	0	0
4/23/2024 10:23	20402	ASHF_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
4/23/2024 10:24	40302	TAMA_T3	48	42	-6	0.5	0.42	-0.08	0	0	0	0	0	0	0	0
4/23/2024 10:24	53902	HALI_T2	3	5	2	2.3	1.66	-0.64	-0.25	-0.23	0	0	0	0	0	0
4/23/2024 10:24	46206	DANV_T2	0	0	0	0	0	0	2.49	2.51	0	0	0	0	0	0
4/23/2024 10:24	15001	BLMO_T1	6	6	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/23/2024 10:24	53901	HALI_T2	4	4	0	0.43	0.58	0.15	0	0	0	0	0	0	0	0
4/23/2024 10:24	40303	TAMA_T3	6	6	0	0.22	0.2	-0.02	2.09	2.08	0	0	0	0	0	0
4/23/2024 10:24	46203	DANV_T2	0	7	7	0	0.34	0.34	0	0	0	0	0	0	0	0
4/23/2024 10:24	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 10:24	53903	HALI_T2	7	13	6	0.51	0.66	0.15	0	0	0	0	0	0	0	0
4/23/2024 10:25	59102	WALK_T2	2	6	4	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
4/23/2024 10:25	60101	COCA_T1	2	5	3	0.6	0.54	-0.06	0.48	0.52	0	0	0	0	0	0
4/23/2024 10:25	15103	UPHA_T2	2	4	2	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
4/23/2024 10:25	46203	DANV_T2	0	7	7	0	0.34	0.34	0	0	0	0	0	0	0	0
4/23/2024 10:25	67703	WERN_T2	2	2	0	0.15	0.6	0.45	0	0	0	0	0	0	0	0
4/23/2024 10:25	15104	UPHA_T2	0	1	1	0	0.2	0.2	0.69	0.64	0	0	0	0	0	0
4/23/2024 10:25	46206	DANV_T2	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
4/23/2024 10:25	67701	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:25	60102	COCA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/23/2024 10:25	20403	ASHF_T2	40	25	-15	0.3	0.63	0.33	0.71	1.07	0	0	0	0	0	0
4/23/2024 10:25	67702	WERN_T2	1	3	2	0.3	0.5	0.2	-0.06	-0.06	0	0	0	0	0	0
4/23/2024 10:25	20401	ASHF_T2	2	1	-1	0.15	0.6	0.45	-0.33	-0.32	0	0	0	0	0	0
4/23/2024 10:25	59101	WALK_T2	1	0	-1	0.1	0	-0.1	2.2	2.21	0	0	0	0	0	0
4/23/2024 10:25	20402	ASHF_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
4/23/2024 10:26	20402	ASHF_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
4/23/2024 10:26	28403	HART_T2	1	0	-1	0.3	0.2	-0.1	-0.91	-0.92	1	1	0	900	900	0
4/23/2024 10:26	15001	BLMO_T1	6	6	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/23/2024 10:26	46203	DANV_T2	0	7	7	0	0.34	0.34	0	0	0	0	0	0	0	0
4/23/2024 10:26	46206	DANV_T2	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
4/23/2024 10:26	20401	ASHF_T2	2	1	-1	0.15	0.6	0.45	0	0	0	0	0	0	0	0
4/23/2024 10:26	67702	WERN_T2	1	3	2	0.3	0.5	0.2	-0.06	-0.06	0	0	0	0	0	0
4/23/2024 10:26	67701	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:26	67703	WERN_T2	2	2	0	0.15	0.6	0.45	0.64	0.63	0	0	0	0	0	0
4/23/2024 10:26	20403	ASHF_T2	40	25	-15	0.3	0.63	0.33	0.71	1.07	0	0	0	0	0	0
4/23/2024 10:27	67701	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:27	67702	WERN_T2	1	3	2	0.3	0.5	0.2	-0.12	-0.12	0	0	0	0	0	0
4/23/2024 10:27	46004	BERW_T2	1	1	0	0.2	0.2	0	-0.02	0	0	0	0	0	0	0
4/23/2024 10:27	67703	WERN_T2	2	2	0	0.15	0.6	0.45	0	0	0	0	0	0	0	0
4/23/2024 10:28	67702	WERN_T2	1	3	2	0.3	0.5	0.2	-0.12	-0.12	0	0	0	0	0	0
4/23/2024 10:28	67703	WERN_T2	2	2	0	0.15	0.6	0.45	0	0	0	0	0	0	0	0
4/23/2024 10:28	46203	DANV_T2	0	7	7	0	0.34	0.34	0	0	0	0	0	0	0	0
4/23/2024 10:28	46206	DANV_T2	0	0	0	0	0	0	1.66	1.68	0	0	0	0	0	0
4/23/2024 10:28	67701	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:29	41502	FAIR_T2	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
4/23/2024 10:29	40902	JESH_T1	0	0	0	0	0	0	-0.49	-0.45	2	2	0	1200	1200	0
4/23/2024 10:30	62607	ENGL_T1	3	4	1	0.33	0.38	0.05	0	0	0	0	0	0	0	0
4/23/2024 10:30	67603	WARW_T1	4	6	2	0.5	0.68	0.18	0	0	0	0	0	0	0	0
4/23/2024 10:30	67604	WARW_T1	3	3	0	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/23/2024 10:30	67605	WARW_T1	76	97	21	0.7	0.64	-0.06	-1.1	-1.1	0	0	0	0	0	0
4/23/2024 10:30	45801	HEGI_T1	0	0	0	0	0	0	-0.04	0	1	1	0	900	900	0
4/23/2024 10:30	59301	MCAL_T1	6	6	0	0.47	0.57	0.1	-1.35	-1.36	1	1	0	600	600	0
4/23/2024 10:30	59302	MCAL_T1	4	4	0	0.43	0.65	0.22	0	0	0	0	0	0	0	0
4/23/2024 10:30	62602	ENGL_T1	1	1	0	0.1	0.2	0.1	0.08	0.07	0	0	0	0	0	0
4/23/2024 10:30	62605	ENGL_T1	2	3	1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
4/23/2024 10:31	67605	WARW_T1	76	97	21	0.7	0.64	-0.06	-1.1	-1.1	0	0	0	0	0	0
4/23/2024 10:31	67604	WARW_T1	3	3	0	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/23/2024 10:31	67603	WARW_T1	4	6	2	0.5	0.68	0.18	0	0	0	0	0	0	0	0
4/23/2024 10:33	66901	SHIL_T2	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
4/23/2024 10:33	66902	SHIL_T2	3	4	1	0.17	0.3	0.13	0	0	0	0	0	0	0	0
4/23/2024 10:33	67604	WARW_T1	3	3	0	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/23/2024 10:33	67603	WARW_T1	4	6	2	0.5	0.68	0.18	0.03	0.06	0	0	0	0	0	0
4/23/2024 10:33	64904	MILL_T1	1	0	-1	0.1	0	-0.1	0.39	0.41	0	0	0	0	0	0
4/23/2024 10:33	46302	ROHR_T1	9	10	1	1.31	1.06	-0.25	0.16	0.15	0	0	0	0	0	0
4/23/2024 10:33	57203	ROSS_T1	1	2	1	0.5	0.45	-0.05	-0.35	-0.35	0	0	0	0	0	0
4/23/2024 10:33	57205	ROSS_T1	5	4	-1	0.9	1.08	0.18	0	0	0	0	0	0	0	0
4/23/2024 10:33	46301	ROHR_T1	97	39	-58	0.24	0.28	0.04	0.16	0.2	0	0	0	0	0	0
4/23/2024 10:33	66903	SHIL_T2	0	1	1	0	0.2	0.2	-0.93	-0.97	0	0	0	0	0	0
4/23/2024 10:33	67605	WARW_T1	76	97	21	0.7	0.64	-0.06	-2.21	-2.21	0	0	0	0	0	0
4/23/2024 10:34	48303	ORWI_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/23/2024 10:34	59302	MCAL_T1	4	4	0	0.43	0.65	0.22	-0.15	-0.07	1	1	0	600	600	0
4/23/2024 10:34	59301	MCAL_T1	6	6	0	0.47	0.57	0.1	0	0	0	0	0	0	0	0
4/23/2024 10:34	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 10:34	48302	ORWI_T2	2	2	0	1.55	1.6	0.05	0.04	0.01	0	0	0	0	0	0
4/23/2024 10:35	57203	ROSS_T1	1	2	1	0.5	0.45	-0.05	-0.35	-0.35	0	0	0	0	0	0
4/23/2024 10:35	14603	SWHI_T1	10	10	0	0.69	0.71	0.02	-1.09	-1.05	1	1	0	600	600	0
4/23/2024 10:35	46301	ROHR_T1	97	39	-58	0.24	0.28	0.04	0.16	0.2	0	0	0	0	0	0
4/23/2024 10:35	14601	SWHI_T1	5	4	-1	0.32	0.33	0.01	0	0	0	0	0	0	0	0
4/23/2024 10:35	58003	WCAR_T1	1	4	3	1.5	0.55	-0.95	0.77	0.76	0	0	0	0	0	0
4/23/2024 10:35	14602	SWHI_T1	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/23/2024 10:35	58001	WCAR_T1	5	5	0	1	1.12	0.12	0	0	0	0	0	0	0	0
4/23/2024 10:35	46302	ROHR_T1	9	10	1	1.31	1.06	-0.25	0	0	0	0	0	0	0	0
4/23/2024 10:35	57205	ROSS_T1	5	4	-1	0.9	1.08	0.18	0	0	0	0	0	0	0	0
4/23/2024 10:36	57602	RUTH_T2	1	1	0	0.3	0.4	0.1	0.19	0.18	0	0	0	0	0	0
4/23/2024 10:36	67505	WEWI_T1	3	3	0	0.43	0.6	0.17	0	0	0	0	0	0	0	0
4/23/2024 10:36	66902	SHIL_T2	3	4	1	0.17	0.3	0.13	0	0	0	0	0	0	0	0
4/23/2024 10:36	57203	ROSS_T1	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
4/23/2024 10:36	46302	ROHR_T1	9	10	1	1.31	1.06	-0.25	0.16	0.15	0	0	0	0	0	0
4/23/2024 10:36	66901	SHIL_T2	2	3	1	0.15	0.27	0.12	-0.41	-0.34	0	0	0	0	0	0
4/23/2024 10:36	67501	WEWI_T1	2	4	2	0.75	0.63	-0.12	-0.58	-0.55	0	0	0	0	0	0
4/23/2024 10:36	57205	ROSS_T1	5	4	-1	0.9	1.08	0.18	-0.9	-0.88	1	1	0	900	900	0
4/23/2024 10:36	46301	ROHR_T1	97	39	-58	0.24	0.28	0.04	0.16	0.2	0	0	0	0	0	0
4/23/2024 10:36	66903	SHIL_T2	0	1	1	0	0.2	0.2	-0.93	-0.97	0	0	0	0	0	0
4/23/2024 10:36	57603	RUTH_T2	13	21	8	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
4/23/2024 10:36	57601	RUTH_T2	5	5	0	0.52	0.46	-0.06	0	0	0	0	0	0	0	0
4/23/2024 10:37	43102	SMIL_T2	6	5	-1	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
4/23/2024 10:37	45902	AUBU_T1	7	7	0	0.39	0.57	0.18	0	0	0	0	0	0	0	0
4/23/2024 10:37	43101	SMIL_T2	3	5	2	0.8	0.78	-0.02	-0.83	-0.83	0	0	0	0	0	0
4/23/2024 10:37	13704	SCHN_T2	1	1	0	0.5	0.6	0.1	-0.33	-0.34	0	0	0	0	0	0
4/23/2024 10:37	45901	AUBU_T1	0	0	0	0	0	0	1.6	1.63	0	0	0	0	0	0
4/23/2024 10:37	13701	SCHN_T2	3	4	1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
4/23/2024 10:37	57603	RUTH_T2	13	21	8	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
4/23/2024 10:37	57601	RUTH_T2	5	5	0	0.52	0.46	-0.06	0	0	0	0	0	0	0	0
4/23/2024 10:37	43103	SMIL_T2	18	21	3	0.72	0.72	0	0	0	0	0	0	0	0	0
4/23/2024 10:37	57602	RUTH_T2	1	1	0	0.3	0.4	0.1	0.1	0.09	0	0	0	0	0	0
4/23/2024 10:37	43105	SMIL_T2	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
4/23/2024 10:37	43104	SMIL_T2	2	3	1	0.45	0.57	0.12	0	0	0	0	0	0	0	0
4/23/2024 10:38	41602	CLEV_T1	2	2	0	0.15	0.5	0.35	0	0	0	0	0	0	0	0
4/23/2024 10:38	41601	CLEV_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
4/23/2024 10:38	13701	SCHN_T2	3	4	1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
4/23/2024 10:38	14601	SWHI_T1	5	4	-1	0.32	0.33	0.01	0	0	0	0	0	0	0	0
4/23/2024 10:38	13704	SCHN_T2	1	1	0	0.5	0.6	0.1	-0.33	-0.34	0	0	0	0	0	0
4/23/2024 10:38	14602	SWHI_T1	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/23/2024 10:38	14603	SWHI_T1	10	10	0	0.69	0.71	0.02	-1.09	-1.05	1	1	0	600	600	0
4/23/2024 10:39	67505	WEWI_T1	3	3	0	0.43	0.6	0.17	0	0	0	0	0	0	0	0
4/23/2024 10:39	67501	WEWI_T1	2	4	2	0.75	0.63	-0.12	-0.55	-0.49	0	0	0	0	0	0
4/23/2024 10:39	41602	CLEV_T1	2	2	0	0.15	0.5	0.35	0	0	0	0	0	0	0	0
4/23/2024 10:39	45902	AUBU_T1	7	7	0	0.39	0.57	0.18	0	0	0	0	0	0	0	0
4/23/2024 10:39	41601	CLEV_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
4/23/2024 10:39	44301	BEAV_T2	4	7	3	0.73	0.57	-0.16	0.21	0.16	2	2	0	1500	1500	0
4/23/2024 10:39	45901	AUBU_T1	0	0	0	0	0	0	1.63	1.75	0	0	0	0	0	0
4/23/2024 10:40	67702	WERN_T2	2	3	1	0.5	0.63	0.13	0	0	0	0	0	0	0	0
4/23/2024 10:40	54505	ENOL_T2	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/23/2024 10:40	67703	WERN_T2	2	2	0	0.45	0.65	0.2	0.63	0.64	0	0	0	0	0	0
4/23/2024 10:40	41601	CLEV_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
4/23/2024 10:40	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/23/2024 10:40	58001	WCAR_T1	5	5	0	1	1.12	0.12	0	0	0	0	0	0	0	0
4/23/2024 10:40	58003	WCAR_T1	1	4	3	1.5	0.55	-0.95	0.76	0.78	0	0	0	0	0	0
4/23/2024 10:40	41602	CLEV_T1	2	2	0	0.15	0.5	0.35	0	0	0	0	0	0	0	0
4/23/2024 10:40	54504	ENOL_T2	1	1	0	0.5	0.6	0.1	-0.39	-0.35	0	0	0	0	0	0
4/23/2024 10:42	44301	BEAV_T2	4	7	3	0.73	0.57	-0.16	0.21	0.16	2	2	0	1500	1500	0
4/23/2024 10:43	60102	COCA_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/23/2024 10:43	60101	COCA_T1	4	5	1	0.48	0.54	0.06	0.26	0.28	0	0	0	0	0	0
4/23/2024 10:44	46801	HEPB_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/23/2024 10:44	25501	MADI_T1	3	3	0	0.8	1	0.2	0	0	0	0	0	0	0	0
4/23/2024 10:44	25502	MADI_T1	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
4/23/2024 10:44	46803	HEPB_T2	1	0	-1	0.2	0	-0.2	0.4	0.4	0	0	0	0	0	0
4/23/2024 10:44	25503	MADI_T1	109	113	4	0.24	0.22	-0.02	-1.02	-1.07	0	0	0	0	0	0
4/23/2024 10:45	50201	HARR_T3	2	3	1	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
4/23/2024 10:45	50103	HARR_T3	1	0	-1	0.1	0	-0.1	0.53	0.64	0	0	0	0	0	0
4/23/2024 10:45	50107	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 10:45	50105	HARR_T3	6	7	1	5.95	6	0.05	0	0	0	0	0	0	0	0
4/23/2024 10:46	62605	ENGL_T1	3	3	0	0.37	0.4	0.03	-0.82	-0.8	0	0	0	0	0	0
4/23/2024 10:46	62607	ENGL_T1	4	3	-1	0.38	0.47	0.09	-3.57	-3.6	3	3	0	900	900	0
4/23/2024 10:46	62602	ENGL_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/23/2024 10:46	25402	LAHA_T2	1	1	0	0.1	0.2	0.1	-0.38	-0.36	0	0	0	0	0	0
4/23/2024 10:47	57203	ROSS_T1	1	2	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
4/23/2024 10:47	57205	ROSS_T1	4	4	0	1.03	1.1	0.07	-0.88	-0.86	1	1	0	900	900	0
4/23/2024 10:48	64802	MONE_T2	22	22	0	0.29	0.33	0.04	0	0	0	0	0	0	0	0
4/23/2024 10:48	64801	MONE_T2	4	4	0	0.55	0.5	-0.05	0.22	0.19	0	0	0	0	0	0
4/23/2024 10:49	41902	REED_T1	3	5	2	0.5	0.58	0.08	1.13	1.16	0	0	0	0	0	0
4/23/2024 10:50	57003	WHHI_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
4/23/2024 10:50	57006	WHHI_T2	2	2	0	0.5	0.65	0.15	0.36	0.35	1	1	0	600	600	0
4/23/2024 10:51	59102	WALK_T2	4	5	1	0.4	0.52	0.12	0	0	0	0	0	0	0	0
4/23/2024 10:51	59101	WALK_T2	0	0	0	0	0	0	2.21	2.17	0	0	0	0	0	0
4/23/2024 10:51	41902	REED_T1	3	5	2	0.5	0.58	0.08	2.26	2.32	0	0	0	0	0	0
4/23/2024 10:52	41902	REED_T1	3	5	2	0.5	0.58	0.08	2.26	2.32	0	0	0	0	0	0
4/23/2024 10:53	43101	SMIL_T2	4	5	1	0.73	0.9	0.17	0	0	0	0	0	0	0	0
4/23/2024 10:53	43102	SMIL_T2	5	6	1	0.3	0.3	0	-0.87	-0.87	1	1	0	600	600	0
4/23/2024 10:53	51101	CARL_T1	0	1	1	0	0.1	0.1	-1.05	-1.07	1	1	0	600	600	0
4/23/2024 10:53	51102	CARL_T1	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/23/2024 10:53	43103	SMIL_T2	19	22	3	0.54	0.73	0.19	0	0	0	0	0	0	0	0
4/23/2024 10:53	51109	CARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 10:53	43105	SMIL_T2	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
4/23/2024 10:53	45402	WBLO_T2	3	2	-1	0.6	1.05	0.45	-0.82	-0.82	0	0	0	0	0	0
4/23/2024 10:53	43104	SMIL_T2	2	3	1	0.45	0.7	0.25	0	0	0	0	0	0	0	0
4/23/2024 10:54	46005	BERW_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/23/2024 10:54	46001	BERW_T1	0	0	0	0	0	0	1.04	1.04	0	0	0	0	0	0
4/23/2024 10:54	57003	WHHI_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
4/23/2024 10:54	57002	WHHI_T2	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
4/23/2024 10:54	11104	EGYP_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/23/2024 10:54	11102	EGYP_T1	3	3	0	1.63	1.8	0.17	0	0	0	0	0	0	0	0
4/23/2024 10:54	11103	EGYP_T1	4	4	0	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
4/23/2024 10:54	57006	WHHI_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
4/23/2024 10:54	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/23/2024 10:55	57006	WHHI_T2	2	2	0	0.5	0.65	0.15	0.35	0.36	1	1	0	600	600	0
4/23/2024 10:55	57003	WHHI_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
4/23/2024 10:56	51601	DUKE_T1	2	3	1	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
4/23/2024 10:56	61701	ELIZ_T1	2	2	0	3.45	3.85	0.4	0	0	0	0	0	0	0	0
4/23/2024 10:56	20402	ASHF_T2	2	3	1	0.45	0.53	0.08	0	0	0	0	0	0	0	0
4/23/2024 10:56	51603	DUKE_T1	5	5	0	0.82	0.68	-0.14	-0.56	-0.58	0	0	0	0	0	0
4/23/2024 10:56	61703	ELIZ_T1	3	4	1	0.3	0.33	0.03	-5.08	-5.1	4	4	0	4200	4200	0
4/23/2024 10:56	20401	ASHF_T2	1	4	3	0.7	5.15	4.45	-0.29	-0.27	0	0	0	0	0	0
4/23/2024 10:56	20403	ASHF_T2	25	23	-2	0.46	0.75	0.29	0	0	0	0	0	0	0	0
4/23/2024 10:57	46005	BERW_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/23/2024 10:57	61701	ELIZ_T1	2	2	0	3.45	3.85	0.4	0	0	0	0	0	0	0	0
4/23/2024 10:57	46001	BERW_T1	0	0	0	0	0	0	1.04	1.04	0	0	0	0	0	0
4/23/2024 10:57	61703	ELIZ_T1	3	4	1	0.3	0.33	0.03	-7.62	-7.65	6	6	0	6300	6300	0
4/23/2024 10:59	20603	GRWO_T2	4	5	1	0.58	0.54	-0.04	0	0	0	0	0	0	0	0
4/23/2024 10:59	20601	GRWO_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
4/23/2024 10:59	51604	DUKE_T2	3	7	4	0.53	0.43	-0.1	-0.35	-0.36	0	0	0	0	0	0
4/23/2024 10:59	51602	DUKE_T2	3	3	0	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
4/23/2024 10:59	42401	GIMA_T1	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/23/2024 11:00	41801	GOCI_T2	284	297	13	0.64	0.68	0.04	0	0	0	0	0	0	0	0
4/23/2024 11:00	41802	GOCI_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/23/2024 11:01	42001	MNVL_T2	11	65	54	0.53	0.27	-0.26	0	0	0	0	0	0	0	0
4/23/2024 11:01	41801	GOCI_T2	284	297	13	0.64	0.68	0.04	0	0	0	0	0	0	0	0
4/23/2024 11:01	62605	ENGL_T1	2	3	1	0.4	0.43	0.03	-0.8	-0.83	0	0	0	0	0	0
4/23/2024 11:01	62607	ENGL_T1	3	2	-1	0.43	0.65	0.22	-1.2	-1.21	1	1	0	300	300	0
4/23/2024 11:01	62602	ENGL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/23/2024 11:01	46005	BERW_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/23/2024 11:01	42002	MNVL_T2	2	2	0	2.55	2.6	0.05	-0.26	-0.24	0	0	0	0	0	0
4/23/2024 11:01	46001	BERW_T1	0	0	0	0	0	0	1.04	1.04	0	0	0	0	0	0
4/23/2024 11:01	40101	HUNT_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
4/23/2024 11:01	41802	GOCI_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/23/2024 11:03	45902	AUBU_T1	7	10	3	0.44	0.55	0.11	-0.51	-0.52	1	1	0	600	600	0
4/23/2024 11:04	46501	LOHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/23/2024 11:04	46505	LOHA_T1	0	0	0	0	0	0	-0.33	-0.34	1	1	0	600	600	0
4/23/2024 11:04	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 11:04	46504	LOHA_T1	3	65	62	0.9	0.44	-0.46	0	0	0	0	0	0	0	0
4/23/2024 11:04	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 11:05	23002	SAJO_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
4/23/2024 11:05	67203	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 11:05	64101	REFR_T1	3	5	2	0.47	0.48	0.01	-0.94	-0.94	0	0	0	0	0	0
4/23/2024 11:05	23001	SAJO_T1	0	0	0	0	0	0	-0.94	-0.93	0	0	0	0	0	0
4/23/2024 11:05	67201	TEHI_T1	3	1	-2	0.4	0.1	-0.3	0.76	0.26	2	2	0	1500	1500	0
4/23/2024 11:06	58401	MORO_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/23/2024 11:06	58402	MORO_T1	0	0	0	0	0	0	-0.37	-0.32	4	4	0	3000	3000	0
4/23/2024 11:07	57003	WHHI_T2	1	2	1	0.9	1	0.1	0	0	0	0	0	0	0	0
4/23/2024 11:07	57006	WHHI_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
4/23/2024 11:07	66703	STRA_T1	0	1	1	0	0.1	0.1	-0.18	-0.22	0	0	0	0	0	0
4/23/2024 11:07	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 11:07	57004	WHHI_T2	0	1	1	0	0.1	0.1	-0.55	-0.53	0	0	0	0	0	0
4/23/2024 11:07	66701	STRA_T1	2	3	1	1.1	0.87	-0.23	0	0	0	0	0	0	0	0
4/23/2024 11:07	57002	WHHI_T2	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
4/23/2024 11:08	13902	SEID_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
4/23/2024 11:08	45602	WOOL_T1	9	11	2	0.54	0.82	0.28	0.5	0.48	0	0	0	0	0	0
4/23/2024 11:08	60803	BUCK_T1	0	0	0	0	0	0	-0.53	-0.54	1	1	0	600	600	0
4/23/2024 11:08	13905	SEID_T1	0	3	3	0	8	8	0	0	0	0	0	0	0	0
4/23/2024 11:08	45902	AUBU_T1	7	10	3	0.44	0.55	0.11	-0.52	-0.51	1	1	0	600	600	0
4/23/2024 11:08	64101	REFR_T1	3	5	2	0.47	0.48	0.01	-0.94	-0.9	0	0	0	0	0	0
4/23/2024 11:08	13903	SEID_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 11:08	45601	WOOL_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/23/2024 11:09	45602	WOOL_T1	9	11	2	0.54	0.82	0.28	0.48	0.48	0	0	0	0	0	0
4/23/2024 11:09	51603	DUKE_T1	5	5	0	0.68	0.64	-0.04	-0.58	-0.57	0	0	0	0	0	0
4/23/2024 11:09	67502	WEWI_T2	5	8	3	0.98	0.63	-0.35	-0.19	-0.16	0	0	0	0	0	0
4/23/2024 11:09	45601	WOOL_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/23/2024 11:09	44301	BEAV_T2	5	12	7	0.6	0.49	-0.11	0.11	0.27	2	2	0	1500	1500	0
4/23/2024 11:09	51601	DUKE_T1	3	2	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/23/2024 11:10	67502	WEWI_T2	5	8	3	0.98	0.63	-0.35	-0.19	-0.16	0	0	0	0	0	0
4/23/2024 11:10	26001	WDAM_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
4/23/2024 11:10	26002	WDAM_T1	1	4	3	0.3	0.75	0.45	0	0	0	0	0	0	0	0
4/23/2024 11:10	67501	WEWI_T1	4	4	0	0.63	1.03	0.4	-0.53	-0.54	0	0	0	0	0	0
4/23/2024 11:10	60801	BUCK_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
4/23/2024 11:10	67505	WEWI_T1	3	4	1	0.6	0.58	-0.02	-0.3	-0.22	1	1	0	900	900	0
4/23/2024 11:11	44301	BEAV_T2	5	12	7	0.6	0.49	-0.11	0.11	0.27	2	2	0	1500	1500	0
4/23/2024 11:11	60803	BUCK_T1	0	0	0	0	0	0	-0.53	-0.54	1	1	0	600	600	0
4/23/2024 11:12	45902	AUBU_T1	7	10	3	0.44	0.55	0.11	-0.52	-0.51	1	1	0	600	600	0
4/23/2024 11:12	20401	ASHF_T2	1	2	1	0.5	0.4	-0.1	-0.27	-0.25	0	0	0	0	0	0
4/23/2024 11:12	60801	BUCK_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
4/23/2024 11:12	60803	BUCK_T1	0	0	0	0	0	0	-0.53	-0.54	1	1	0	600	600	0
4/23/2024 11:12	10801	OHHI_T1	6	8	2	0.57	0.95	0.38	-0.85	-0.85	1	1	0	900	900	0
4/23/2024 11:12	23901	EFMO_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/23/2024 11:12	23902	EFMO_T2	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
4/23/2024 11:12	20403	ASHF_T2	20	29	9	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
4/23/2024 11:12	20402	ASHF_T2	2	5	3	0.7	0.44	-0.26	0	0	0	0	0	0	0	0
4/23/2024 11:13	45902	AUBU_T1	7	10	3	0.44	0.55	0.11	-0.52	-0.51	1	1	0	600	600	0
4/23/2024 11:14	47002	HUGH_T2	2	3	1	0.4	0.63	0.23	0	0	0	0	0	0	0	0
4/23/2024 11:14	47001	HUGH_T2	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/23/2024 11:14	40101	HUNT_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
4/23/2024 11:17	42902	MIDD_T2	6	1	-5	0.55	0.6	0.05	0	0	0	0	0	0	0	0
4/23/2024 11:17	62605	ENGL_T1	3	4	1	0.37	0.4	0.03	-0.83	-0.83	0	0	0	0	0	0
4/23/2024 11:17	42903	MIDD_T2	2	0	-2	0.2	0	-0.2	-0.49	0.62	1	1	0	1200	1200	0
4/23/2024 11:17	62602	ENGL_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/23/2024 11:17	60801	BUCK_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
4/23/2024 11:17	62607	ENGL_T1	2	3	1	0.6	0.43	-0.17	-1.21	-1.19	1	1	0	300	300	0
4/23/2024 11:18	47001	HUGH_T2	1	4	3	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
4/23/2024 11:18	47002	HUGH_T2	2	4	2	0.65	0.58	-0.07	0	0	0	0	0	0	0	0
4/23/2024 11:19	12703	MACU_T2	0	0	0	0	0	0	-0.96	-0.97	0	0	0	0	0	0
4/23/2024 11:19	65503	MOJO_T2	18	18	0	0.58	0.58	0	0	0	0	0	0	0	0	0
4/23/2024 11:19	65502	MOJO_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
4/23/2024 11:19	12705	MACU_T2	1	2	1	0.1	0.65	0.55	0	0	0	0	0	0	0	0
4/23/2024 11:21	43105	SMIL_T2	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
4/23/2024 11:21	43101	SMIL_T2	5	6	1	0.76	0.98	0.22	0	0	0	0	0	0	0	0
4/23/2024 11:21	43103	SMIL_T2	21	24	3	0.6	0.67	0.07	0	0	0	0	0	0	0	0
4/23/2024 11:21	43102	SMIL_T2	6	6	0	0.3	0.52	0.22	-0.83	-0.84	1	1	0	600	600	0
4/23/2024 11:21	43104	SMIL_T2	3	3	0	0.63	0.77	0.14	0	0	0	0	0	0	0	0
4/23/2024 11:22	59102	WALK_T2	4	6	2	0.63	0.75	0.12	0	0	0	0	0	0	0	0
4/23/2024 11:22	58402	MORO_T1	0	0	0	0	0	0	-0.32	-0.34	4	4	0	3000	3000	0
4/23/2024 11:22	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
4/23/2024 11:22	59101	WALK_T2	0	1	1	0	0	0	2.36	2.51	0	0	0	0	0	0
4/23/2024 11:22	44301	BEAV_T2	11	14	3	0.49	0.62	0.13	0.11	0.27	2	2	0	1500	1500	0
4/23/2024 11:22	58401	MORO_T1	0	0	0	0	0	0	-0.99	-1.01	1	1	0	600	600	0
4/23/2024 11:22	15702	TANN_T2	1	1	0	0.2	0.5	0.3	0.46	0.49	0	0	0	0	0	0
4/23/2024 11:23	45601	WOOL_T1	1	2	1	0.3	0.55	0.25	-0.4	-0.38	1	1	0	1200	1200	0
4/23/2024 11:23	45602	WOOL_T1	11	11	0	0.69	0.85	0.16	0	0	0	0	0	0	0	0
4/23/2024 11:24	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
4/23/2024 11:24	15702	TANN_T2	1	1	0	0.2	0.5	0.3	0.49	0.48	0	0	0	0	0	0
4/23/2024 11:24	44301	BEAV_T2	11	14	3	0.49	0.62	0.13	0.27	0.23	2	2	0	1500	1500	0
4/23/2024 11:24	45902	AUBU_T1	6	10	4	0.57	0.57	0	-0.51	-0.46	1	1	0	600	600	0
4/23/2024 11:25	60801	BUCK_T1	0	0	0	0	0	0	0.08	0.16	0	0	0	0	0	0
4/23/2024 11:26	22101	EDEL_T2	1	3	2	1	0.57	-0.43	0.33	0.32	1	1	0	1200	1200	0
4/23/2024 11:26	43102	SMIL_T2	6	6	0	0.3	0.52	0.22	0	0	0	0	0	0	0	0
4/23/2024 11:26	43103	SMIL_T2	21	24	3	0.6	0.67	0.07	0	0	0	0	0	0	0	0
4/23/2024 11:26	43101	SMIL_T2	5	6	1	0.76	0.98	0.22	0	0	0	0	0	0	0	0
4/23/2024 11:26	44301	BEAV_T2	11	14	3	0.49	0.62	0.13	0.27	0.23	2	2	0	1500	1500	0
4/23/2024 11:26	43105	SMIL_T2	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
4/23/2024 11:26	43104	SMIL_T2	3	3	0	0.63	0.77	0.14	0	0	0	0	0	0	0	0
4/23/2024 11:26	43108	SMIL_T2	0	0	0	0	0	0	0.45	0.49	0	0	0	0	0	0
4/23/2024 11:27	60901	DONG_T2	5	5	0	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
4/23/2024 11:27	41802	GOCI_T2	1	12	11	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
4/23/2024 11:27	60903	DONG_T2	1	1	0	1.6	0.2	-1.4	0	0	0	0	0	0	0	0
4/23/2024 11:27	60904	DONG_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/23/2024 11:27	41801	GOCI_T2	207	320	113	0.47	0.75	0.28	0	0	0	0	0	0	0	0
4/23/2024 11:27	44301	BEAV_T2	11	14	3	0.49	0.62	0.13	0.27	0.23	2	2	0	1500	1500	0
4/23/2024 11:27	60902	DONG_T2	1	1	0	0.3	0.1	-0.2	0.76	0.76	0	0	0	0	0	0
4/23/2024 11:28	60801	BUCK_T1	0	0	0	0	0	0	0.08	0.16	0	0	0	0	0	0
4/23/2024 11:29	41205	KENM_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/23/2024 11:29	45902	AUBU_T1	6	10	4	0.57	0.57	0	-0.51	-0.46	1	1	0	600	600	0
4/23/2024 11:29	65503	MOJO_T2	18	18	0	0.58	0.58	0	-1.29	-1.21	1	1	0	900	900	0
4/23/2024 11:31	57303	MOAL_T2	1	1	0	7	7	0	0	0	0	0	0	0	0	0
4/23/2024 11:31	12402	MILF_T1	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
4/23/2024 11:31	12401	MILF_T1	3	4	1	0.83	0.93	0.1	-0.35	-0.41	0	0	0	0	0	0
4/23/2024 11:31	12403	MILF_T1	2	2	0	0.85	1.4	0.55	0	0	0	0	0	0	0	0
4/23/2024 11:31	24501	GOUL_T2	1	1	0	0.3	0.6	0.3	0.05	0.05	0	0	0	0	0	0
4/23/2024 11:31	57301	MOAL_T2	0	0	0	0	0	0	0.31	0.26	0	0	0	0	0	0
4/23/2024 11:31	57304	MOAL_T2	61	65	4	0.44	0.52	0.08	0	0	0	0	0	0	0	0
4/23/2024 11:31	57306	MOAL_T2	3	3	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/23/2024 11:32	21901	HUMB_T1	0	1	1	0	0.2	0.2	-0.98	-0.97	0	0	0	0	0	0
4/23/2024 11:32	46506	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 11:32	46501	LOHA_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/23/2024 11:32	46504	LOHA_T1	65	57	-8	0.43	0.48	0.05	0	0	0	0	0	0	0	0
4/23/2024 11:32	46502	LOHA_T1	0	0	0	0	0	0	-1.35	-1.38	1	1	0	1200	1200	0
4/23/2024 11:33	60801	BUCK_T1	0	0	0	0	0	0	0.08	0.16	0	0	0	0	0	0
4/23/2024 11:33	58401	MORO_T1	0	1	1	0	0.2	0.2	-1.01	-0.97	1	1	0	600	600	0
4/23/2024 11:34	58401	MORO_T1	0	1	1	0	0.2	0.2	-1.01	-0.97	1	1	0	600	600	0
4/23/2024 11:34	67605	WARW_T1	193	244	51	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
4/23/2024 11:34	67604	WARW_T1	4	4	0	0.35	0.35	0	0.21	0.83	0	0	0	0	0	0
4/23/2024 11:34	67603	WARW_T1	10	10	0	0.5	0.64	0.14	0	0	0	0	0	0	0	0
4/23/2024 11:34	42201	SHEN_T2	3	4	1	0.5	0.75	0.25	-0.23	-0.21	1	1	0	600	600	0
4/23/2024 11:35	15602	NSTR_T2	3	3	0	0.2	0.43	0.23	0	0	0	0	0	0	0	0
4/23/2024 11:35	65604	QVIL_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
4/23/2024 11:35	67603	WARW_T1	10	10	0	0.5	0.64	0.14	0	0	0	0	0	0	0	0
4/23/2024 11:35	67605	WARW_T1	193	244	51	0.4	0.38	-0.02	-1.06	-1.07	0	0	0	0	0	0
4/23/2024 11:35	65601	QVIL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/23/2024 11:35	15601	NSTR_T2	7	12	5	0.61	0.58	-0.03	0	0	0	0	0	0	0	0
4/23/2024 11:35	15603	NSTR_T2	6	6	0	0.42	0.52	0.1	-0.67	-0.66	0	0	0	0	0	0
4/23/2024 11:35	67604	WARW_T1	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0	0
4/23/2024 11:37	43304	WATS_T2	1	3	2	0.4	0.6	0.2	-0.6	-0.79	0	0	0	0	0	0
4/23/2024 11:37	43802	SWIL_T1	0	2	2	0	0.9	0.9	-0.32	-0.33	1	1	0	600	600	0
4/23/2024 11:37	42201	SHEN_T2	3	4	1	0.5	0.75	0.25	-0.23	-0.21	1	1	0	600	600	0
4/23/2024 11:37	43801	SWIL_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
4/23/2024 11:37	43302	WATS_T2	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/23/2024 11:37	43301	WATS_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/23/2024 11:38	66502	SMAN_T2	2	7	5	0.8	0.46	-0.34	0.49	0.56	0	0	0	0	0	0
4/23/2024 11:38	66505	SMAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/23/2024 11:38	66504	SMAN_T2	1	2	1	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
4/23/2024 11:38	66501	SMAN_T2	2	2	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/23/2024 11:38	60803	BUCK_T1	0	0	0	0	0	0	-0.54	-0.55	1	1	0	600	600	0
4/23/2024 11:38	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 11:39	43302	WATS_T2	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/23/2024 11:39	43301	WATS_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/23/2024 11:39	43304	WATS_T2	1	3	2	0.4	0.6	0.2	-1.58	0.87	0	0	0	0	0	0
4/23/2024 11:39	14802	TREI_T2	8	8	0	0.41	0.44	0.03	0.36	0.31	0	0	0	0	0	0
4/23/2024 11:39	14801	TREI_T2	10	10	0	0.5	0.72	0.22	0	0	0	0	0	0	0	0
4/23/2024 11:40	43304	WATS_T2	1	3	2	0.4	0.6	0.2	-0.79	0.44	0	0	0	0	0	0
4/23/2024 11:40	56504	ROCK_T2	4	4	0	0.63	0.65	0.02	0	0	0	0	0	0	0	0
4/23/2024 11:40	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 11:40	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 11:40	56501	ROCK_T2	9	13	4	0.89	0.47	-0.42	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 11:40	43301	WATS_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/23/2024 11:40	45902	AUBU_T1	10	10	0	0.55	0.54	-0.01	-0.46	-0.49	1	1	0	600	600	0
4/23/2024 11:40	43302	WATS_T2	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/23/2024 11:41	17401	FOHI_T1	2	2	0	0.25	0.5	0.25	-1.05	-1.02	0	0	0	0	0	0
4/23/2024 11:43	60101	COCA_T1	7	9	2	0.63	0.71	0.08	0	0	0	0	0	0	0	0
4/23/2024 11:43	54505	ENOL_T2	2	3	1	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
4/23/2024 11:43	24702	FLND_T2	2	2	0	1.6	1.4	-0.2	0.2	0.61	1	1	0	1200	1200	0
4/23/2024 11:43	54503	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 11:43	54504	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/23/2024 11:43	54501	ENOL_T2	0	2	2	0	0.25	0.25	0.06	0.1	0	0	0	0	0	0
4/23/2024 11:43	60102	COCA_T1	2	3	1	0.3	0.33	0.03	-0.28	-0.16	2	2	0	1200	1200	0
4/23/2024 11:43	54502	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/23/2024 11:45	50506	MECH_T1	2	5	3	1.2	0.66	-0.54	-0.01	-0.01	1	1	0	900	900	0
4/23/2024 11:45	45901	AUBU_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 11:45	50504	MECH_T1	2	4	2	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
4/23/2024 11:45	50502	MECH_T1	2	2	0	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
4/23/2024 11:45	50503	MECH_T1	2	3	1	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
4/23/2024 11:45	45902	AUBU_T1	9	10	1	0.5	0.6	0.1	-0.46	-0.49	1	1	0	600	600	0
4/23/2024 11:45	50501	MECH_T1	4	4	0	0.8	0.88	0.08	0	0	0	0	0	0	0	0
4/23/2024 11:45	50505	MECH_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/23/2024 11:47	50503	MECH_T1	2	3	1	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
4/23/2024 11:47	50502	MECH_T1	2	2	0	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
4/23/2024 11:47	46802	HEPB_T1	6	5	-1	0.6	0.86	0.26	-0.35	-0.34	0	0	0	0	0	0
4/23/2024 11:47	50504	MECH_T1	2	4	2	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
4/23/2024 11:47	41901	REED_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/23/2024 11:47	57306	MOAL_T2	3	2	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/23/2024 11:47	57304	MOAL_T2	63	64	1	0.52	0.48	-0.04	-0.72	-0.71	0	0	0	0	0	0
4/23/2024 11:47	50505	MECH_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/23/2024 11:47	50506	MECH_T1	2	5	3	1.2	0.66	-0.54	-0.01	-0.01	1	1	0	900	900	0
4/23/2024 11:47	50501	MECH_T1	4	4	0	0.8	0.88	0.08	0	0	0	0	0	0	0	0
4/23/2024 11:47	41902	REED_T1	7	6	-1	0.86	0.88	0.02	1.18	1.18	0	0	0	0	0	0
4/23/2024 11:47	57303	MOAL_T2	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 11:47	12701	MACU_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
4/23/2024 11:48	64802	MONE_T2	30	32	2	0.47	0.43	-0.04	0.1	0.09	0	0	0	0	0	0
4/23/2024 11:48	50502	MECH_T1	2	2	0	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
4/23/2024 11:48	50504	MECH_T1	2	4	2	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
4/23/2024 11:48	50506	MECH_T1	2	5	3	1.2	0.66	-0.54	-0.01	-0.01	1	1	0	900	900	0
4/23/2024 11:48	50501	MECH_T1	4	4	0	0.8	0.88	0.08	0	0	0	0	0	0	0	0
4/23/2024 11:48	50505	MECH_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/23/2024 11:48	50503	MECH_T1	2	3	1	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
4/23/2024 11:48	64801	MONE_T2	9	6	-3	0.39	0.47	0.08	0	0	0	0	0	0	0	0
4/23/2024 11:49	12801	MICK_T1	0	1	1	0	0	0	-0.04	-0.01	1	1	0	600	600	0
4/23/2024 11:49	41902	REED_T1	7	6	-1	0.86	0.88	0.02	1.18	1.18	0	0	0	0	0	0
4/23/2024 11:49	41901	REED_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/23/2024 11:49	12807	MICK_T1	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
4/23/2024 11:49	57303	MOAL_T2	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 11:49	57306	MOAL_T2	3	2	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/23/2024 11:49	57304	MOAL_T2	63	64	1	0.52	0.48	-0.04	-0.72	-0.71	0	0	0	0	0	0
4/23/2024 11:49	12803	MICK_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/23/2024 11:51	65901	SAKR_T2	4	3	-1	3.03	3.8	0.77	-1.29	-1.29	1	1	0	900	900	0
4/23/2024 11:51	65904	SAKR_T2	10	8	-2	0.26	0.26	0	0	0	0	0	0	0	0	0
4/23/2024 11:51	56504	ROCK_T2	1	6	5	0.3	0.47	0.17	0	0	0	0	0	0	0	0
4/23/2024 11:51	56501	ROCK_T2	11	11	0	0.46	1.14	0.68	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 11:51	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 11:53	54501	BEAV_T2	14	39	25	0.62	0.53	-0.09	0.23	-0.04	2	2	0	1500	1500	0
4/23/2024 11:53	67402	WAKE_T2	5	5	0	0.38	0.42	0.04	0.6	0.6	2	2	0	1200	1200	0
4/23/2024 11:53	44302	BEAV_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
4/23/2024 11:53	67401	WAKE_T2	8	10	2	0.64	0.6	-0.04	-1.19	-1.13	0	0	0	0	0	0
4/23/2024 11:54	41601	CLEV_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
4/23/2024 11:54	45902	AUBU_T1	9	10	1	0.5	0.6	0.1	-0.49	-0.49	1	1	0	600	600	0
4/23/2024 11:54	45901	AUBU_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 11:54	16504	STRO_T1	0	0	0	0	0	0	0.2	0.18	1	1	0	1200	1200	0
4/23/2024 11:54	20403	ASHF_T2	11	23	12	0.53	0.73	0.2	1.26	1.32	0	0	0	0	0	0
4/23/2024 11:54	41602	CLEV_T1	3	3	0	0.6	1.03	0.43	0	0	0	0	0	0	0	0
4/23/2024 11:54	20402	ASHF_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/23/2024 11:54	20401	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/23/2024 11:54	18001	ZION_T1	6	6	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/23/2024 11:55	45901	AUBU_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 11:55	41602	CLEV_T1	3	3	0	0.6	1.03	0.43	0	0	0	0	0	0	0	0
4/23/2024 11:55	44301	BEAV_T2	14	39	25	0.62	0.53	-0.09	-0.04	-0.86	2	2	0	1500	1500	0
4/23/2024 11:55	44302	BEAV_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
4/23/2024 11:55	45902	AUBU_T1	9	10	1	0.5	0.6	0.1	-0.49	-0.49	1	1	0	600	600	0
4/23/2024 11:55	41601	CLEV_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
4/23/2024 11:56	44302	BEAV_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
4/23/2024 11:56	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0.48	0.75	0	0	0	0	0	0
4/23/2024 11:56	61302	EARL_T1	3	3	0	0.5	0.87	0.37	0.83	0.36	2	2	0	1800	1800	0
4/23/2024 11:56	44301	BEAV_T2	14	39	25	0.62	0.53	-0.09	-0.04	-0.86	2	2	0	1500	1500	0
4/23/2024 11:56	61304	EARL_T1	6	5	-1	0.35	0.34	-0.01	-0.85	-0.88	1	1	0	600	600	0
4/23/2024 11:56	45801	HEGI_T1	1	3	2	0.3	0.2	-0.1	-0.08	-0.16	1	1	0	900	900	0
4/23/2024 11:57	44505	HAMI_T2	2	7	5	0.6	0.6	0	0.68	0.59	0	0	0	0	0	0
4/23/2024 11:57	44502	HAMI_T2	6	4	-2	0.8	1.18	0.38	0	0	0	0	0	0	0	0
4/23/2024 11:58	54504	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/23/2024 11:58	54503	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 11:58	54501	ENOL_T2	2	3	1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
4/23/2024 11:58	54505	ENOL_T2	2	3	1	0.75	0.6	-0.15	-1.39	-1.39	1	1	0	600	600	0
4/23/2024 11:58	54502	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/23/2024 11:59	41202	KENM_T2	0	2	2	0	0.15	0.15	0.51	0.52	0	0	0	0	0	0
4/23/2024 11:59	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0.96	1.51	0	0	0	0	0	0
4/23/2024 11:59	47101	MARL_T1	1	1	0	0.1	0.4	0.3	-0.07	-0.29	0	0	0	0	0	0
4/23/2024 11:59	61302	EARL_T1	3	3	0	0.5	0.87	0.37	0	0	0	0	0	0	0	0
4/23/2024 11:59	61304	EARL_T1	6	5	-1	0.35	0.34	-0.01	0	0	0	0	0	0	0	0
4/23/2024 11:59	41204	KENM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:00	45902	AUBU_T1	10	10	0	0.54	0.68	0.14	-0.49	-0.49	1	1	0	600	600	0
4/23/2024 12:00	45901	AUBU_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/23/2024 12:01	64904	MILL_T1	0	0	0	0	0	0	0.34	0.38	0	0	0	0	0	0
4/23/2024 12:03	51004	NHAR_T1	16	19	3	1.09	1.05	-0.04	-0.45	-0.45	0	0	0	0	0	0
4/23/2024 12:03	51002	NHAR_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:04	42802	SELI_T1	1	1	0	0.5	0.3	-0.2	-0.8	-0.76	1	1	0	900	900	0
4/23/2024 12:06	13704	SCHN_T2	2	4	2	0.5	0.33	-0.17	-0.33	-0.34	0	0	0	0	0	0
4/23/2024 12:06	42802	SELI_T1	1	1	0	0.5	0.3	-0.2	-0.8	-0.76	1	1	0	900	900	0
4/23/2024 12:06	13701	SCHN_T2	12	13	1	0.43	0.45	0.02	0	0	0	0	0	0	0	0
4/23/2024 12:06	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 12:06	16401	MOPO_T1	3	2	-1	0.57	0.7	0.13	0.23	0.22	0	0	0	0	0	0
4/23/2024 12:06	56503	ROCK_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:06	43301	WATS_T2	2	2	0	0.25	0.25	0	-0.75	-0.75	1	1	0	900	900	0
4/23/2024 12:06	56501	ROCK_T2	11	15	4	1.06	0.88	-0.18	-0.02	-0.02	0	0	0	0	0	0
4/23/2024 12:06	16402	MOPO_T1	6	6	0	0.67	0.78	0.11	0	0	0	0	0	0	0	0
4/23/2024 12:06	56504	ROCK_T2	4	7	3	0.65	0.54	-0.11	0	0	0	0	0	0	0	0
4/23/2024 12:08	43301	WATS_T2	2	2	0	0.25	0.25	0	-0.75	-0.75	1	1	0	900	900	0
4/23/2024 12:08	13701	SCHN_T2	12	13	1	0.43	0.45	0.02	0	0	0	0	0	0	0	0
4/23/2024 12:08	13704	SCHN_T2	2	4	2	0.5	0.33	-0.17	-0.33	-0.34	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/23/2024 12:08	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 12:09	17903	BART_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
4/23/2024 12:09	17901	BART_T1	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
4/23/2024 12:09	13704	SCHN_T2	2	4	2	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
4/23/2024 12:09	56503	ROCK_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:09	56501	ROCK_T2	11	15	4	1.06	0.88	-0.18	0	0	0	0	0	0	0	0
4/23/2024 12:09	13701	SCHN_T2	12	13	1	0.43	0.45	0.02	0	-0.01	1	1	0	600	600	0
4/23/2024 12:09	56504	ROCK_T2	4	7	3	0.65	0.54	-0.11	0	0	0	0	0	0	0	0
4/23/2024 12:10	13704	SCHN_T2	2	4	2	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
4/23/2024 12:10	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 12:10	13701	SCHN_T2	12	13	1	0.43	0.45	0.02	0	-0.01	1	1	0	600	600	0
4/23/2024 12:10	67402	WAKE_T2	5	5	0	0.42	0.42	0	0	0	0	0	0	0	0	0
4/23/2024 12:10	46004	BERW_T2	1	6	5	0.2	0.38	0.18	0	0	0	0	0	0	0	0
4/23/2024 12:10	67401	WAKE_T2	9	10	1	0.56	0.68	0.12	-1.13	-1.16	0	0	0	0	0	0
4/23/2024 12:10	46002	BERW_T2	1	2	1	0.2	0.35	0.15	-0.65	-0.67	1	1	0	900	900	0
4/23/2024 12:11	48902	FOSP_T2	0	0	0	0	0	0	-0.42	-0.45	1	1	0	1200	1200	0
4/23/2024 12:11	56501	ROCK_T2	11	15	4	1.06	0.88	-0.18	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 12:11	56504	ROCK_T2	4	7	3	0.65	0.54	-0.11	0	0	0	0	0	0	0	0
4/23/2024 12:11	45801	HEGI_T1	3	1	-2	0.2	0.2	0	-0.16	-0.1	1	1	0	900	900	0
4/23/2024 12:11	45902	AUBU_T1	10	10	0	0.54	0.68	0.14	-0.49	-0.57	1	1	0	600	600	0
4/23/2024 12:11	45901	AUBU_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/23/2024 12:11	48901	FOSP_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/23/2024 12:11	56503	ROCK_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:12	21901	HUMB_T1	1	1	0	0.2	0.1	-0.1	-0.99	-0.94	0	0	0	0	0	0
4/23/2024 12:12	48901	FOSP_T2	1	1	0	0.1	0.5	0.4	0.01	0	1	1	0	600	600	0
4/23/2024 12:13	48901	FOSP_T2	1	1	0	0.1	0.5	0.4	0.02	-0.01	3	3	0	1800	1800	0
4/23/2024 12:13	44502	HAMI_T2	3	4	1	1.27	1.28	0.01	0	0	0	0	0	0	0	0
4/23/2024 12:13	58401	MORO_T1	1	4	3	0.2	0.23	0.03	0	0	0	0	0	0	0	0
4/23/2024 12:13	44505	HAMI_T2	2	7	5	0.85	0.64	-0.21	0	0	0	0	0	0	0	0
4/23/2024 12:13	48902	FOSP_T2	0	0	0	0	0	0	-0.42	-0.45	1	1	0	1200	1200	0
4/23/2024 12:13	44504	HAMI_T2	0	0	0	0	0	0	-1.01	-1.05	0	0	0	0	0	0
4/23/2024 12:13	58402	MORO_T1	0	1	1	0	0.4	0.4	-0.32	-0.31	2	2	0	1500	1500	0
4/23/2024 12:13	41601	CLEV_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
4/23/2024 12:13	41602	CLEV_T1	3	3	0	0.7	1.07	0.37	0	0	0	0	0	0	0	0
4/23/2024 12:15	28403	HART_T2	1	1	0	0.6	0.8	0.2	-0.9	-0.91	1	1	0	900	900	0
4/23/2024 12:15	48901	FOSP_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/23/2024 12:15	48902	FOSP_T2	0	0	0	0	0	0	-0.42	-0.45	1	1	0	1200	1200	0
4/23/2024 12:16	45902	AUBU_T1	9	8	-1	0.6	0.8	0.2	-0.49	-0.57	1	1	0	600	600	0
4/23/2024 12:16	42902	MIDD_T2	14	13	-1	0.49	0.67	0.18	-0.97	-1	1	1	0	600	600	0
4/23/2024 12:16	42903	MIDD_T2	5	3	-2	0.66	0.87	0.21	0	0	0	0	0	0	0	0
4/23/2024 12:16	45901	AUBU_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:17	46504	LOHA_T1	76	76	0	0.66	0.59	-0.07	0	0	0	0	0	0	0	0
4/23/2024 12:17	50105	HARR_T3	6	6	0	6.18	6.13	-0.05	0	0	0	0	0	0	0	0
4/23/2024 12:17	50201	HARR_T3	5	5	0	0.54	0.48	-0.06	0	0	0	0	0	0	0	0
4/23/2024 12:17	46506	LOHA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/23/2024 12:17	46501	LOHA_T1	1	1	0	0.6	0.6	0	0.02	0	1	1	0	1200	1200	0
4/23/2024 12:17	50202	HARR_T3	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
4/23/2024 12:18	40601	PIGR_T1	109	142	33	0.33	0.4	0.07	0.19	0.19	0	0	0	0	0	0
4/23/2024 12:18	60504	NMAN_T2	3	3	0	1.03	1.23	0.2	0	0	0	0	0	0	0	0
4/23/2024 12:18	42903	MIDD_T2	5	3	-2	0.66	0.87	0.21	-0.16	-0.17	1	1	0	1200	1200	0
4/23/2024 12:18	42902	MIDD_T2	14	13	-1	0.49	0.67	0.18	-1.93	-2	2	2	0	1200	1200	0
4/23/2024 12:18	64305	LINC_T1	1	1	0	0.2	0.4	0.2	0	-0.21	0	0	0	0	0	0
4/23/2024 12:18	60501	NMAN_T2	14	42	28	1.51	0.7	-0.81	0	0	0	0	0	0	0	0
4/23/2024 12:18	60502	NMAN_T2	5	9	4	0.26	0.41	0.15	-0.35	-0.39	0	0	0	0	0	0
4/23/2024 12:18	40603	PIGR_T1	2	2	0	0.45	0.65	0.2	0	0	0	0	0	0	0	0
4/23/2024 12:18	40602	PIGR_T1	3	2	-1	0.77	0.6	-0.17	-0.11	-0.02	0	0	0	0	0	0
4/23/2024 12:18	64303	LINC_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:19	57702	PAXT_T1	2	2	0	0.45	0.6	0.15	-0.06	-0.05	0	0	0	0	0	0
4/23/2024 12:19	60502	NMAN_T2	5	9	4	0.26	0.41	0.15	-0.35	-0.39	0	0	0	0	0	0
4/23/2024 12:19	60501	NMAN_T2	14	42	28	1.51	0.7	-0.81	0	0	0	0	0	0	0	0
4/23/2024 12:19	60504	NMAN_T2	3	3	0	1.03	1.23	0.2	0	0	0	0	0	0	0	0
4/23/2024 12:20	40602	PIGR_T1	3	2	-1	0.77	0.6	-0.17	0	0	0	0	0	0	0	0
4/23/2024 12:20	40601	PIGR_T1	109	142	33	0.33	0.4	0.07	0.19	0.19	0	0	0	0	0	0
4/23/2024 12:20	57702	PAXT_T1	2	2	0	0.45	0.6	0.15	-0.06	-0.05	0	0	0	0	0	0
4/23/2024 12:20	40603	PIGR_T1	2	2	0	0.45	0.65	0.2	0	0	0	0	0	0	0	0
4/23/2024 12:20	60801	BUCK_T1	3	6	3	0.43	0.33	-0.1	-0.06	-0.17	0	0	0	0	0	0
4/23/2024 12:20	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 12:20	44201	POIN_T1	47	10	-37	0.2	0.27	0.07	-2.15	-2.04	2	2	0	2100	2100	0
4/23/2024 12:21	47402	PENS_T1	9	8	-1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
4/23/2024 12:21	47403	PENS_T1	32	14	-18	0.48	0.83	0.35	0	0	0	0	0	0	0	0
4/23/2024 12:21	65503	MOJO_T2	117	131	14	0.47	0.54	0.07	-1.28	-1.29	1	1	0	900	900	0
4/23/2024 12:21	65502	MOJO_T2	2	4	2	0.2	0.2	0	0	0	0	0	0	0	0	0
4/23/2024 12:21	57702	PAXT_T1	2	2	0	0.45	0.6	0.15	-0.11	-0.1	0	0	0	0	0	0
4/23/2024 12:21	44201	POIN_T1	47	10	-37	0.2	0.27	0.07	-2.15	-2.04	2	2	0	2100	2100	0
4/23/2024 12:21	47401	PENS_T1	20	15	-5	0.54	0.62	0.08	3.76	4.07	0	0	0	0	0	0
4/23/2024 12:22	47402	PENS_T1	9	8	-1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
4/23/2024 12:22	40601	PIGR_T1	109	142	33	0.33	0.4	0.07	0	0	0	0	0	0	0	0
4/23/2024 12:22	40602	PIGR_T1	3	2	-1	0.77	0.6	-0.17	-0.21	-0.04	0	0	0	0	0	0
4/23/2024 12:22	20403	ASHF_T2	20	40	20	0.95	0.51	-0.44	1.32	1.32	0	0	0	0	0	0
4/23/2024 12:22	47401	PENS_T1	20	15	-5	0.54	0.62	0.08	1.25	1.36	0	0	0	0	0	0
4/23/2024 12:22	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:22	47403	PENS_T1	32	14	-18	0.48	0.83	0.35	0	0	0	0	0	0	0	0
4/23/2024 12:22	42201	SHEN_T2	5	4	-1	0.8	0.75	-0.05	-0.2	-0.16	1	1	0	600	600	0
4/23/2024 12:22	40603	PIGR_T1	2	2	0	0.45	0.65	0.2	0	0	0	0	0	0	0	0
4/23/2024 12:23	59202	THOM_T1	26	55	29	0.59	0.43	-0.16	0	0	0	0	0	0	0	0
4/23/2024 12:23	59201	THOM_T1	2	3	1	1.1	0.93	-0.17	0	0	0	0	0	0	0	0
4/23/2024 12:23	47402	PENS_T1	9	8	-1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
4/23/2024 12:23	47403	PENS_T1	32	14	-18	0.48	0.83	0.35	0	0	0	0	0	0	0	0
4/23/2024 12:23	47401	PENS_T1	20	15	-5	0.54	0.62	0.08	1.25	1.36	0	0	0	0	0	0
4/23/2024 12:23	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 12:23	64101	REFR_T1	6	8	2	0.58	0.61	0.03	-0.9	-0.89	0	0	0	0	0	0
4/23/2024 12:24	47403	PENS_T1	32	14	-18	0.48	0.83	0.35	0	0	0	0	0	0	0	0
4/23/2024 12:24	49803	UNIV_T1	4	6	2	0.65	0.8	0.15	0	0	0	0	0	0	0	0
4/23/2024 12:24	20403	ASHF_T2	20	40	20	0.95	0.51	-0.44	1.32	1.12	0	0	0	0	0	0
4/23/2024 12:24	47402	PENS_T1	9	8	-1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
4/23/2024 12:24	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:24	49804	UNIV_T1	5	6	1	0.26	0.25	-0.01	0.59	0.77	0	0	0	0	0	0
4/23/2024 12:24	47401	PENS_T1	20	15	-5	0.54	0.62	0.08	1.36	1.1	0	0	0	0	0	0
4/23/2024 12:25	51602	DUKE_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/23/2024 12:25	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:25	20403	ASHF_T2	20	40	20	0.95	0.51	-0.44	1.32	1.12	0	0	0	0	0	0
4/23/2024 12:25	51604	DUKE_T2	6	5	-1	0.35	0.46	0.11	-0.35	-0.37	0	0	0	0	0	0
4/23/2024 12:25	60801	BUCK_T1	3	6	3	0.43	0.33	-0.1	-0.17	-0.17	0	0	0	0	0	0
4/23/2024 12:26	51601	DUKE_T1	1	7	6	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
4/23/2024 12:26	51603	DUKE_T1	5	5	0	0.72	0.78	0.06	-0.52	-0.51	0	0	0	0	0	0
4/23/2024 12:27	45902	AUBU_T1	9	8	-1	0.6	0.8	0.2	-0.57	-0.61	1	1	0	600	600	0
4/23/2024 12:27	60902	DONG_T2	1	1	0	0.5	0.6	0.1	0.87	0.87	0	0	0	0	0	0
4/23/2024 12:27	51603	DUKE_T1	5	5	0	0.72	0.78	0.06	-0.52	-0.51	0	0	0	0	0	0
4/23/2024 12:27	51601	DUKE_T1	1	7	6	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
4/23/2024 12:27	60903	DONG_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/23/2024 12:27	60904	DONG_T2	3	5	2	0.13	0.36	0.23	0	0	0	0	0	0	0	0
4/23/2024 12:27	60901	DONG_T2	8	10	2	0.53	0.53	0	0	0	0	0	0	0	0	0
4/23/2024 12:27	45801	HEGI_T1	1	0	-1	0.2	0	-0.2	-0.1	-0.07	1	1	0	900	900	0
4/23/2024 12:27	45901	AUBU_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:28	47901	HRDG_T1	0	0	0	0	0	0	1.76	1.71	0	0	0	0	0	0
4/23/2024 12:29	47001	HUGH_T2	3	3	0	0.57	0.73	0.16	0	0	0	0	0	0	0	0
4/23/2024 12:29	47002	HUGH_T2	16	23	7	0.42	0.43	0.01	0	0	0	0	0	0	0	0
4/23/2024 12:29	48901	FOSP_T2	1	1	0	0.5	0.5	0	0	-0.04	1	1	0	600	600	0
4/23/2024 12:29	47901	HRDG_T1	0	0	0	0	0	0	1.76	1.71	0	0	0	0	0	0
4/23/2024 12:31	53901	HALI_T2	3	3	0	0.73	0.7	-0.03	-0.81	-0.83	0	0	0	0	0	0
4/23/2024 12:31	47001	HUGH_T2	3	3	0	0.73	0.5	-0.23	0	0	0	0	0	0	0	0
4/23/2024 12:31	47002	HUGH_T2	23	7	-16	0.43	0.49	0.06	0	0	0	0	0	0	0	0
4/23/2024 12:31	53902	HALI_T2	7	7	0	1.34	1.37	0.03	0	0	0	0	0	0	0	0
4/23/2024 12:31	53903	HALI_T2	16	17	1	0.78	0.84	0.06	0	0	0	0	0	0	0	0
4/23/2024 12:32	53902	HALI_T2	7	7	0	1.34	1.37	0.03	0	0	0	0	0	0	0	0
4/23/2024 12:32	47001	HUGH_T2	3	3	0	0.73	0.5	-0.23	0	0	0	0	0	0	0	0
4/23/2024 12:32	45902	AUBU_T1	8	8	0	0.75	0.7	-0.05	-0.57	-0.61	1	1	0	600	600	0
4/23/2024 12:32	53903	HALI_T2	16	17	1	0.78	0.84	0.06	0	0	0	0	0	0	0	0
4/23/2024 12:32	53901	HALI_T2	3	3	0	0.73	0.7	-0.03	-1.22	-1.25	0	0	0	0	0	0
4/23/2024 12:32	45901	AUBU_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/23/2024 12:32	47002	HUGH_T2	23	7	-16	0.43	0.49	0.06	0	0	0	0	0	0	0	0
4/23/2024 12:33	51603	DUKE_T1	5	6	1	0.78	0.57	-0.21	-0.52	-0.51	0	0	0	0	0	0
4/23/2024 12:33	51601	DUKE_T1	4	7	3	0.45	0.47	0.02	0	0	0	0	0	0	0	0
4/23/2024 12:33	13303	ORVI_T1	6	9	3	0.17	0.2	0.03	-0.21	-0.26	0	0	0	0	0	0
4/23/2024 12:34	66504	SMAN_T2	4	8	4	0.7	0.51	-0.19	-0.47	-0.45	0	0	0	0	0	0
4/23/2024 12:34	66505	SMAN_T2	2	2	0	1.15	1.2	0.05	0	0	0	0	0	0	0	0
4/23/2024 12:34	58401	MORO_T1	4	4	0	0.23	0.28	0.05	0	0	0	0	0	0	0	0
4/23/2024 12:34	58402	MORO_T1	1	1	0	0.4	0.2	-0.2	-0.31	-0.3	2	2	0	1500	1500	0
4/23/2024 12:34	66502	SMAN_T2	18	27	9	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
4/23/2024 12:34	66503	SMAN_T2	1	1	0	0.6	0.8	0.2	0.36	0.37	0	0	0	0	0	0
4/23/2024 12:34	66505	SMAN_T2	3	4	1	0.33	0.53	0.2	0	0	0	0	0	0	0	0
4/23/2024 12:36	66502	SMAN_T2	18	27	9	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
4/23/2024 12:36	66504	SMAN_T2	4	8	4	0.7	0.51	-0.19	0	0	0	0	0	0	0	0
4/23/2024 12:36	57005	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/23/2024 12:36	57001	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 12:36	66503	SMAN_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/23/2024 12:36	13302	ORVI_T2	3	4	1	1.07	0.88	-0.19	1.33	1.33	0	0	0	0	0	0
4/23/2024 12:36	66501	SMAN_T2	2	2	0	1.15	1.2	0.05	0	0	0	0	0	0	0	0
4/23/2024 12:36	57006	WHHI_T2	4	4	0	0.43	0.63	0.2	0	0	0	0	0	0	0	0
4/23/2024 12:36	66505	SMAN_T2	3	4	1	0.33	0.53	0.2	0.25	0.14	2	2	0	1100	1100	0
4/23/2024 12:36	57004	WHHI_T2	1	1	0	0.3	0.4	0.1	-0.51	-0.51	0	0	0	0	0	0
4/23/2024 12:36	57003	WHHI_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
4/23/2024 12:36	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 12:37	66503	SMAN_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/23/2024 12:37	66504	SMAN_T2	4	8	4	0.7	0.51	-0.19	-0.94	-0.9	0	0	0	0	0	0
4/23/2024 12:37	66501	SMAN_T2	2	2	0	1.15	1.2	0.05	0	0	0	0	0	0	0	0
4/23/2024 12:37	66505	SMAN_T2	3	4	1	0.33	0.53	0.2	0	0	0	0	0	0	0	0
4/23/2024 12:37	66502	SMAN_T2	18	27	9	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
4/23/2024 12:38	66505	SMAN_T2	3	4	1	0.33	0.53	0.2	0	0	0	0	0	0	0	0
4/23/2024 12:38	66504	SMAN_T2	4	8	4	0.7	0.51	-0.19	-0.45	-0.42	0	0	0	0	0	0
4/23/2024 12:38	66502	SMAN_T2	18	27	9	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
4/23/2024 12:38	57001	WHHI_T2	0	1	1	0	0	0	-0.11	-0.09	1	1	0	900	900	0
4/23/2024 12:38	57006	WHHI_T2	4	4	0	0.43	0.63	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/23/2024 12:38	57003	WHHI_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
4/23/2024 12:38	57004	WHHI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:38	66501	SMAN_T2	2	2	0	1.15	1.2	0.05	0	0	0	0	0	0	0	0
4/23/2024 12:38	66503	SMAN_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/23/2024 12:38	57005	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/23/2024 12:40	25603	ARRO_T1	5	5	0	0.4	0.44	0.04	-0.17	-0.22	0	0	0	0	0	0
4/23/2024 12:41	16101	BING_T2	1	3	2	1.2	0.5	-0.7	0	0	0	0	0	0	0	0
4/23/2024 12:41	16103	BING_T2	2	2	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
4/23/2024 12:41	16102	BING_T2	4	5	1	0.63	0.6	-0.03	-0.68	-0.63	1	1	0	1200	1200	0
4/23/2024 12:41	25603	ARRO_T1	5	5	0	0.4	0.44	0.04	-0.17	-0.22	0	0	0	0	0	0
4/23/2024 12:42	45901	AUBU_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/23/2024 12:42	45902	AUBU_T1	8	8	0	0.75	0.7	-0.05	-0.61	-0.54	1	1	0	600	600	0
4/23/2024 12:43	61801	EELI_T2	12	13	1	0.52	0.52	0	-0.47	-0.46	0	0	0	0	0	0
4/23/2024 12:43	64201	KINZ_T1	1	1	0	0.2	0.1	-0.1	0.01	-0.1	3	3	0	1500	1500	0
4/23/2024 12:43	61803	EELI_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:43	64202	KINZ_T1	5	5	0	1.1	0.68	-0.42	0	0	0	0	0	0	0	0
4/23/2024 12:43	64204	KINZ_T1	3	5	2	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
4/23/2024 12:43	64203	KINZ_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:44	64204	KINZ_T1	3	5	2	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
4/23/2024 12:44	64203	KINZ_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:44	64202	KINZ_T1	5	5	0	1.1	0.68	-0.42	0	0	0	0	0	0	0	0
4/23/2024 12:44	64201	KINZ_T1	1	1	0	0.2	0.1	-0.1	0.01	-0.1	3	3	0	1500	1500	0
4/23/2024 12:44	11507	FREE_T2	0	0	0	0	0	0	1.03	1.07	0	0	0	0	0	0
4/23/2024 12:46	54503	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:46	54501	ENOL_T2	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
4/23/2024 12:46	13501	MCMI_T1	1	2	1	0.7	0.5	-0.2	0.05	0.05	0	0	0	0	0	0
4/23/2024 12:46	13502	MCMI_T1	12	10	-2	0.45	0.52	0.07	0	0	0	0	0	0	0	0
4/23/2024 12:46	54502	ENOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/23/2024 12:46	47001	HUGH_T2	3	4	1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
4/23/2024 12:46	25603	ARRO_T1	4	39	35	0.48	0.25	-0.23	-0.17	-0.22	0	0	0	0	0	0
4/23/2024 12:46	54506	ENOL_T2	0	0	0	0	0	0	0.56	0.55	1	1	0	600	600	0
4/23/2024 12:46	54504	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:46	47002	HUGH_T2	7	6	-1	0.46	0.55	0.09	0	0	0	0	0	0	0	0
4/23/2024 12:46	54505	ENOL_T2	3	3	0	0.53	0.7	0.17	0	0	0	0	0	0	0	0
4/23/2024 12:47	53902	HALI_T2	7	6	-1	1.34	1.53	0.19	0	0	0	0	0	0	0	0
4/23/2024 12:47	53903	HALI_T2	16	18	2	0.84	0.82	-0.02	0	0	0	0	0	0	0	0
4/23/2024 12:47	53901	HALI_T2	3	4	1	0.63	0.55	-0.08	-0.42	-0.39	0	0	0	0	0	0
4/23/2024 12:48	64203	KINZ_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/23/2024 12:48	64202	KINZ_T1	5	4	-1	0.68	0.68	0	0	0	0	0	0	0	0	0
4/23/2024 12:48	13502	MCMI_T1	12	10	-2	0.45	0.52	0.07	0	0	0	0	0	0	0	0
4/23/2024 12:48	64204	KINZ_T1	5	3	-2	0.48	0.53	0.05	0	0	0	0	0	0	0	0
4/23/2024 12:48	45901	AUBU_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/23/2024 12:48	64201	KINZ_T1	1	0	-1	0.1	0	-0.1	0.01	-0.1	3	3	0	1500	1500	0
4/23/2024 12:48	45902	AUBU_T1	8	7	-1	0.7	0.73	0.03	-0.61	-0.54	1	1	0	600	600	0
4/23/2024 12:48	53903	HALI_T2	16	18	2	0.84	0.82	-0.02	0	0	0	0	0	0	0	0
4/23/2024 12:48	53901	HALI_T2	3	4	1	0.63	0.55	-0.08	-0.42	-0.39	0	0	0	0	0	0
4/23/2024 12:48	53902	HALI_T2	7	6	-1	1.34	1.53	0.19	0	0	0	0	0	0	0	0
4/23/2024 12:48	13501	MCMI_T1	1	2	1	0.7	0.5	-0.2	0.05	0.05	0	0	0	0	0	0
4/23/2024 12:49	12501	MITR_T2	1	1	0	8.1	5.6	-2.5	0	0	0	0	0	0	0	0
4/23/2024 12:49	12505	MITR_T2	1	2	1	0.3	0.15	-0.15	1.4	1.59	0	0	0	0	0	0
4/23/2024 12:49	12502	MITR_T2	1	1	0	6.9	7.2	0.3	0	0	0	0	0	0	0	0
4/23/2024 12:50	58003	WCAR_T1	10	10	0	0.48	0.45	-0.03	0.8	0.8	0	0	0	0	0	0
4/23/2024 12:50	58001	WCAR_T1	6	5	-1	1.1	1.12	0.02	0	0	0	0	0	0	0	0
4/23/2024 12:51	43104	SMIL_T2	5	6	1	0.74	0.5	-0.24	0	0	0	0	0	0	0	0
4/23/2024 12:51	43101	SMIL_T2	7	8	1	0.83	1.1	0.27	0	0	0	0	0	0	0	0
4/23/2024 12:51	43102	SMIL_T2	4	6	2	0.4	0.35	-0.05	-0.82	-0.83	1	1	0	600	600	0
4/23/2024 12:51	43103	SMIL_T2	24	29	5	0.74	0.77	0.03	0	0	0	0	0	0	0	0
4/23/2024 12:51	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 12:51	43105	SMIL_T2	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:52	43101	SMIL_T2	7	8	1	0.83	1.1	0.27	0	0	0	0	0	0	0	0
4/23/2024 12:52	43103	SMIL_T2	24	29	5	0.74	0.77	0.03	0	0	0	0	0	0	0	0
4/23/2024 12:52	43104	SMIL_T2	5	6	1	0.74	0.5	-0.24	0	0	0	0	0	0	0	0
4/23/2024 12:52	43102	SMIL_T2	4	6	2	0.4	0.35	-0.05	-2.46	-2.48	3	3	0	1800	1800	0
4/23/2024 12:52	13805	SALI_T1	4	0	-4	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/23/2024 12:52	43105	SMIL_T2	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:52	13801	SALI_T1	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/23/2024 12:52	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 12:52	13807	SALI_T1	5	5	0	0.74	0.68	-0.06	0.11	0.12	0	0	0	0	0	0
4/23/2024 12:53	45902	AUBU_T1	8	7	-1	0.7	0.73	0.03	-0.54	-0.61	1	1	0	600	600	0
4/23/2024 12:53	45901	AUBU_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/23/2024 12:56	10903	COOP_T2	1	1	0	1.9	1.8	-0.1	-0.04	0	1	1	0	600	600	0
4/23/2024 12:56	41502	FAIR_T2	0	1	1	0	0.1	0.1	-0.68	-0.69	0	0	0	0	0	0
4/23/2024 12:57	28701	HAML_T2	5	6	1	0.84	1	0.16	0	0	0	0	0	0	0	0
4/23/2024 12:57	60801	BUCK_T1	5	4	-1	0.34	0.38	0.04	-0.16	0.11	0	0	0	0	0	0
4/23/2024 12:57	28703	HAML_T2	3	3	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/23/2024 12:57	28704	HAML_T2	1	1	0	0.3	0.5	0.2	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 12:57	61304	EARL_T1	5	3	-2	0.28	0.4	0.12	0	0	0	0	0	0	0	0
4/23/2024 12:57	61303	EARL_T1	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
4/23/2024 12:57	61302	EARL_T1	2	3	1	0.7	0.43	-0.27	0	0	0	0	0	0	0	0
4/23/2024 12:58	50505	MECH_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/23/2024 12:58	50503	MECH_T1	1	1	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
4/23/2024 12:58	50504	MECH_T1	3	3	0	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
4/23/2024 12:58	45902	AUBU_T1	8	7	-1	0.7	0.73	0.03	-0.54	-0.61	1	1	0	600	600	0
4/23/2024 12:58	50506	MECH_T1	4	4	0	0.85	0.78	-0.07	0	0	0	0	0	0	0	0
4/23/2024 12:58	50501	MECH_T1	4	4	0	0.7	0.68	-0.02	0	0	0	0	0	0	0	0
4/23/2024 12:58	45901	AUBU_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/23/2024 12:58	50502	MECH_T1	2	2	0	1.15	1	-0.15	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 12:59	11507	FREE_T2	0	0	0	0	0	0	1.07	1.07	0	0	0	0	0	0
4/23/2024 13:00	26803	JAFR_T1	1	1	0	0.8	1	0.2	-0.06	-0.05	1	1	0	900	900	0
4/23/2024 13:01	41802	GOCI_T2	15	18	3	0.17	0.21	0.04	0	0	0	0	0	0	0	0
4/23/2024 13:01	41801	GOCI_T2	319	356	37	0.69	0.9	0.21	0	0	0	0	0	0	0	0
4/23/2024 13:02	26803	JAFR_T1	1	1	0	0.8	1	0.2	-0.06	-0.05	1	1	0	900	900	0
4/23/2024 13:02	55105	WERT_T1	3	3	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/23/2024 13:02	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 13:02	60801	BUCK_T1	4	1	-3	0.38	0.3	-0.08	-0.16	0.11	0	0	0	0	0	0
4/23/2024 13:03	22602	KIMB_T1	2	1	-1	0.2	0.4	0.2	0.34	0.35	0	0	0	0	0	0
4/23/2024 13:03	22601	KIMB_T1	1	2	1	2	1.2	-0.8	0	0	0	0	0	0	0	0
4/23/2024 13:04	54501	ENOL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/23/2024 13:04	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/23/2024 13:04	54503	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 13:04	54505	ENOL_T2	3	3	0	0.7	0.63	-0.07	-1.4	-1.39	1	1	0	600	600	0
4/23/2024 13:04	54504	ENOL_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/23/2024 13:05	16406	MOPO_T1	0	0	0	0	0	0	0.35	0.33	1	1	0	1200	1200	0
4/23/2024 13:05	16402	MOPO_T1	5	6	1	0.86	0.58	-0.28	0	0	0	0	0	0	0	0
4/23/2024 13:05	16401	MOPO_T1	3	3	0	0.47	0.53	0.06	0	0	0	0	0	0	0	0
4/23/2024 13:07	66701	STRA_T1	2	3	1	1.15	0.9	-0.25	0.36	0.3	0	0	0	0	0	0
4/23/2024 13:07	25603	ARRO_T1	3	42	39	0.63	0.26	-0.37	-0.22	-0.21	0	0	0	0	0	0
4/23/2024 13:07	66703	STRA_T1	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/23/2024 13:08	59101	WALK_T2	1	3	2	0.4	0.23	-0.17	1.61	1.89	0	0	0	0	0	0
4/23/2024 13:08	59102	WALK_T2	5	4	-1	0.46	0.48	0.02	0	0	0	0	0	0	0	0
4/23/2024 13:09	66703	STRA_T1	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/23/2024 13:09	45901	AUBU_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 13:09	66701	STRA_T1	2	3	1	1.15	0.9	-0.25	0.3	0.35	0	0	0	0	0	0
4/23/2024 13:09	45902	AUBU_T1	6	10	4	0.63	0.7	0.07	-0.61	-0.66	1	1	0	600	600	0
4/23/2024 13:10	59101	WALK_T2	1	3	2	0.4	0.23	-0.17	1.61	1.89	0	0	0	0	0	0
4/23/2024 13:10	59102	WALK_T2	5	4	-1	0.46	0.48	0.02	0	0	0	0	0	0	0	0
4/23/2024 13:12	60502	NMAN_T2	3	2	-1	0.37	0.15	-0.22	-0.24	-0.26	0	0	0	0	0	0
4/23/2024 13:12	60501	NMAN_T2	13	4	-9	1.64	3.83	2.19	0	0	0	0	0	0	0	0
4/23/2024 13:12	25603	ARRO_T1	3	42	39	0.63	0.26	-0.37	-0.21	-0.22	0	0	0	0	0	0
4/23/2024 13:12	60504	NMAN_T2	3	2	-1	1.2	0.95	-0.25	0	0	0	0	0	0	0	0
4/23/2024 13:12	44505	HAMI_T2	5	4	-1	0.6	0.73	0.13	0	0	0	0	0	0	0	0
4/23/2024 13:12	61506	EPET_T2	1	0	-1	0.1	0	-0.1	-0.95	-0.94	1	1	0	900	900	0
4/23/2024 13:12	44502	HAMI_T2	3	4	1	1.3	1.08	-0.22	-0.9	-0.92	0	0	0	0	0	0
4/23/2024 13:12	61504	EPET_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 13:13	61302	EARL_T1	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0	0
4/23/2024 13:13	24902	WHHA_T1	60	59	-1	0.68	0.66	-0.02	0	0	0	0	0	0	0	0
4/23/2024 13:13	24901	WHHA_T1	6	6	0	0.43	0.58	0.15	0	0	0	0	0	0	0	0
4/23/2024 13:13	60801	BUCK_T1	4	1	-3	0.38	0.3	-0.08	0.11	0.17	0	0	0	0	0	0
4/23/2024 13:13	60902	DONG_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/23/2024 13:13	61304	EARL_T1	3	3	0	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
4/23/2024 13:13	60904	DONG_T2	5	1	-4	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
4/23/2024 13:13	61303	EARL_T1	0	0	0	0	0	0	0.66	0.74	0	0	0	0	0	0
4/23/2024 13:13	60903	DONG_T2	1	1	0	0.8	0.2	-0.6	1	0.99	1	1	0	600	600	0
4/23/2024 13:13	60901	DONG_T2	11	4	-7	0.64	0.4	-0.24	0	0	0	0	0	0	0	0
4/23/2024 13:14	45902	AUBU_T1	6	10	4	0.63	0.7	0.07	-0.61	-0.66	1	1	0	600	600	0
4/23/2024 13:14	45901	AUBU_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 13:15	14204	EALL_T2	1	3	2	0.1	0.1	0	-0.73	-0.72	0	0	0	0	0	0
4/23/2024 13:17	46803	HEPB_T2	2	1	-1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/23/2024 13:17	46801	HEPB_T2	2	2	0	0.5	0.6	0.1	0.55	0.56	0	0	0	0	0	0
4/23/2024 13:18	42902	MIDD_T2	2	6	4	0.4	0.47	0.07	-1.07	-1	1	1	0	600	600	0
4/23/2024 13:18	60801	BUCK_T1	1	0	-1	0.3	0	-0.3	0.11	0.17	0	0	0	0	0	0
4/23/2024 13:18	47001	HUGH_T2	4	3	-1	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
4/23/2024 13:18	28801	LAKE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 13:18	47002	HUGH_T2	6	6	0	0.52	0.57	0.05	0	0	0	0	0	0	0	0
4/23/2024 13:18	28805	LAKE_T1	1	1	0	0.9	0.7	-0.2	-0.26	-0.25	0	0	0	0	0	0
4/23/2024 13:19	13606	RICH_T2	2	2	0	3.8	3.9	0.1	0	0	0	0	0	0	0	0
4/23/2024 13:19	13601	RICH_T2	1	1	0	0.2	0.8	0.6	0.04	0.04	1	1	0	600	600	0
4/23/2024 13:22	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 13:23	45902	AUBU_T1	7	11	4	0.73	0.76	0.03	-0.66	-0.57	1	1	0	600	600	0
4/23/2024 13:23	25603	ARRO_T1	39	42	3	0.25	0.27	0.02	-0.22	-0.17	0	0	0	0	0	0
4/23/2024 13:23	45901	AUBU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/23/2024 13:24	45901	AUBU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/23/2024 13:24	45902	AUBU_T1	7	11	4	0.73	0.76	0.03	-0.66	-0.57	1	1	0	600	600	0
4/23/2024 13:25	13801	SALI_T1	1	1	0	0.2	0.2	0	0.84	0.8	0	0	0	0	0	0
4/23/2024 13:25	13807	SALI_T1	4	4	0	0.73	0.55	-0.18	0	0	0	0	0	0	0	0
4/23/2024 13:26	51108	CARL_T1	0	0	0	0	0	0	-0.43	-0.46	1	1	0	600	600	0
4/23/2024 13:26	51101	CARL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/23/2024 13:26	51109	CARL_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/23/2024 13:26	51102	CARL_T1	4	5	1	0.33	0.42	0.09	0	0	0	0	0	0	0	0
4/23/2024 13:27	46005	BERW_T1	3	3	0	0.77	0.9	0.13	0	0	0	0	0	0	0	0
4/23/2024 13:27	46001	BERW_T1	0	0	0	0	0	0	1.1	1.07	0	0	0	0	0	0
4/23/2024 13:28	41802	GOCI_T2	17	17	0	0.21	0.26	0.05	0	0	0	0	0	0	0	0
4/23/2024 13:28	60102	COCA_T1	1	0	-1	0.1	0	-0.1	0.41	0.39	4	4	0	2400	2400	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/23/2024 13:28	60101	COCA_T1	7	6	-1	0.63	0.58	-0.05	0	0	0	0	0	0	0	0
4/23/2024 13:28	41801	GOCI_T2	346	354	8	0.87	0.78	-0.09	0	0	0	0	0	0	0	0
4/23/2024 13:28	25603	ARRO_T1	39	42	3	0.25	0.27	0.02	-0.22	-0.17	0	0	0	0	0	0
4/23/2024 13:29	40702	FFLD_T1	9	12	3	0.22	0.22	0	-0.01	-0.15	1	1	0	1200	1200	0
4/23/2024 13:29	40703	FFLD_T1	3	4	1	0.33	0.43	0.1	0	0	0	0	0	0	0	0
4/23/2024 13:29	60801	BUCK_T1	1	0	-1	0.3	0	-0.3	0.17	0.14	0	0	0	0	0	0
4/23/2024 13:29	40701	FFLD_T1	70	63	-7	0.49	0.51	0.02	0	0	0	0	0	0	0	0
4/23/2024 13:29	46005	BERW_T1	3	3	0	0.77	0.9	0.13	0	0	0	0	0	0	0	0
4/23/2024 13:29	46001	BERW_T1	0	0	0	0	0	0	1.1	1.07	0	0	0	0	0	0
4/23/2024 13:30	45901	AUBU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/23/2024 13:30	44505	HAMI_T2	3	4	1	0.8	0.73	-0.07	0	0	0	0	0	0	0	0
4/23/2024 13:30	44502	HAMI_T2	3	5	2	1.3	0.92	-0.38	-0.92	-0.85	0	0	0	0	0	0
4/23/2024 13:30	45902	AUBU_T1	10	12	2	0.7	0.87	0.17	-0.66	-0.57	1	1	0	600	600	0
4/23/2024 13:31	47901	HRDG_T1	0	0	0	0	0	0	2.45	0.77	0	0	0	0	0	0
4/23/2024 13:33	46504	LOHA_T1	47	66	19	0.47	0.65	0.18	0	0	0	0	0	0	0	0
4/23/2024 13:33	46501	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 13:33	60801	BUCK_T1	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
4/23/2024 13:33	46506	LOHA_T1	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
4/23/2024 13:34	46501	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 13:34	46504	LOHA_T1	47	66	19	0.47	0.65	0.18	0	0	0	0	0	0	0	0
4/23/2024 13:34	13601	RICH_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
4/23/2024 13:34	46506	LOHA_T1	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
4/23/2024 13:34	13606	RICH_T2	2	2	0	3.9	3.85	-0.05	1.3	1.41	0	0	0	0	0	0
4/23/2024 13:35	54601	SUMM_T2	3	6	3	0.33	0.48	0.15	-1.82	-1.86	2	2	0	2100	2100	0
4/23/2024 13:36	54601	SUMM_T2	3	6	3	0.33	0.48	0.15	-1.82	-1.86	2	2	0	2100	2100	0
4/23/2024 13:36	65207	PRIN_T4	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
4/23/2024 13:36	44502	HAMI_T2	3	5	2	1.3	0.92	-0.38	-0.92	-0.85	0	0	0	0	0	0
4/23/2024 13:36	44505	HAMI_T2	3	4	1	0.8	0.73	-0.07	0	0	0	0	0	0	0	0
4/23/2024 13:37	66702	STRA_T1	0	0	0	0	0	0	0.71	0.72	2	2	0	1500	1500	0
4/23/2024 13:37	66703	STRA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/23/2024 13:37	15701	TANN_T1	8	10	2	1.09	0.89	-0.2	0	0	0	0	0	0	0	0
4/23/2024 13:37	40602	PIGR_T1	1	3	2	0.6	0.53	-0.07	-0.06	-0.09	0	0	0	0	0	0
4/23/2024 13:37	15704	TANN_T1	14	30	16	0.42	0.32	-0.1	-1.19	-1.21	0	0	0	0	0	0
4/23/2024 13:37	40603	PIGR_T1	2	3	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/23/2024 13:37	40601	PIGR_T1	66	171	105	0.32	0.58	0.26	0	0	0	0	0	0	0	0
4/23/2024 13:37	54601	SUMM_T2	3	6	3	0.33	0.48	0.15	-1.82	-1.86	2	2	0	2100	2100	0
4/23/2024 13:37	66701	STRA_T1	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0	0
4/23/2024 13:38	54601	SUMM_T2	3	6	3	0.33	0.48	0.15	-1.86	-1.82	2	2	0	2100	2100	0
4/23/2024 13:38	42701	AUGU_T1	1	1	0	0.3	0.5	0.2	0	0	1	1	0	600	600	0
4/23/2024 13:39	25603	ARRO_T1	38	43	5	0.26	0.26	0	-0.17	-0.21	0	0	0	0	0	0
4/23/2024 13:39	57004	WHHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/23/2024 13:39	57003	WHHI_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/23/2024 13:39	57006	WHHI_T2	2	2	0	0.5	0.6	0.1	0.44	0.39	1	1	0	600	600	0
4/23/2024 13:40	45901	AUBU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/23/2024 13:40	45902	AUBU_T1	10	12	2	0.7	0.87	0.17	-0.57	-0.85	1	1	0	600	600	0
4/23/2024 13:42	42701	AUGU_T1	1	1	0	0.3	0.5	0.2	0	0	1	1	0	600	600	0
4/23/2024 13:42	54601	SUMM_T2	3	6	3	0.33	0.48	0.15	-1.86	-1.82	2	2	0	2100	2100	0
4/23/2024 13:44	23901	EFMO_T2	2	4	2	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
4/23/2024 13:44	25603	ARRO_T1	38	43	5	0.26	0.26	0	-0.17	-0.21	0	0	0	0	0	0
4/23/2024 13:44	23902	EFMO_T2	2	3	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/23/2024 13:44	47901	HRDG_T1	0	0	0	0	0	0	0.77	1.69	0	0	0	0	0	0
4/23/2024 13:45	23902	EFMO_T2	2	3	1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
4/23/2024 13:45	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 13:45	45902	AUBU_T1	11	12	1	0.76	0.88	0.12	-0.57	-0.85	1	1	0	600	600	0
4/23/2024 13:45	23901	EFMO_T2	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/23/2024 13:48	65205	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 13:50	59302	MCAL_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/23/2024 13:50	13807	SALI_T1	4	4	0	0.55	0.93	0.38	0	0	0	0	0	0	0	0
4/23/2024 13:50	13803	SALI_T1	0	0	0	0	0	0	0.3	0.37	4	4	0	4800	4800	0
4/23/2024 13:50	13805	SALI_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/23/2024 13:50	59301	MCAL_T1	9	4	-5	0.54	0.48	-0.06	-1.71	-1.71	1	1	0	600	600	0
4/23/2024 13:50	13801	SALI_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/23/2024 13:51	54601	SUMM_T2	4	6	2	0.43	0.48	0.05	-1.86	-1.82	2	2	0	2100	2100	0
4/23/2024 13:53	42701	AUGU_T1	1	1	0	0.5	0.3	-0.2	0	0	1	1	0	600	600	0
4/23/2024 13:53	54601	SUMM_T2	4	6	2	0.43	0.48	0.05	-1.82	-1.84	2	2	0	2100	2100	0
4/23/2024 13:54	25603	ARRO_T1	39	38	-1	0.26	0.24	-0.02	-0.21	-0.21	0	0	0	0	0	0
4/23/2024 13:56	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 13:56	45902	AUBU_T1	11	12	1	0.76	0.88	0.12	-0.85	-0.89	1	1	0	600	600	0
4/23/2024 13:56	67701	WERN_T2	3	3	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/23/2024 13:56	67702	WERN_T2	3	4	1	0.83	0.8	-0.03	0	0	0	0	0	0	0	0
4/23/2024 13:56	67703	WERN_T2	2	2	0	1.15	1.15	0	0.72	0.68	0	0	0	0	0	0
4/23/2024 13:57	11601	CEAL_T1	2	3	1	1.1	0.7	-0.4	0	0	1	1	0	1200	1200	0
4/23/2024 13:59	60803	BUCK_T1	0	0	0	0	0	0	-0.53	-0.53	1	1	0	600	600	0
4/23/2024 14:00	25603	ARRO_T1	35	33	-2	0.24	0.23	-0.01	-0.21	-0.21	0	0	0	0	0	0
4/23/2024 14:00	60801	BUCK_T1	0	1	1	0	0.2	0.2	0.16	0.16	0	0	0	0	0	0
4/23/2024 14:01	45901	AUBU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/23/2024 14:01	45902	AUBU_T1	12	12	0	0.86	0.81	-0.05	-0.85	-0.89	1	1	0	600	600	0
4/23/2024 14:02	50103	HARR_T3	7	6	-1	0.64	0.72	0.08	-0.72	-0.72	1	1	0	1200	1200	0
4/23/2024 14:02	66901	SHIL_T2	5	6	1	0.22	0.33	0.11	0	0	0	0	0	0	0	0
4/23/2024 14:02	66903	SHIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 14:02	50105	HARR_T3	6	6	0	6.02	5.87	-0.15	0	0	0	0	0	0	0	0
4/23/2024 14:02	66902	SHIL_T2	4	5	1	0.35	0.38	0.03	-0.78	-0.77	0	0	0	0	0	0
4/23/2024 14:02	50107	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 14:02	50201	HARR_T3	6	6	0	0.38	0.52	0.14	0	0	0	0	0	0	0	0
4/23/2024 14:04	66901	SHIL_T2	5	6	1	0.22	0.33	0.11	0	0	0	0	0	0	0	0
4/23/2024 14:04	66903	SHIL_T2	1	1	0	0.1	0.2	0.1	-0.94	-0.92	0	0	0	0	0	0
4/23/2024 14:04	66902	SHIL_T2	4	5	1	0.35	0.38	0.03	0	0	0	0	0	0	0	0
4/23/2024 14:05	50105	HARR_T3	6	6	0	6.02	5.87	-0.15	0	0	0	0	0	0	0	0
4/23/2024 14:05	50107	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 14:05	50103	HARR_T3	7	6	-1	0.64	0.72	0.08	-0.72	-0.72	1	1	0	1200	1200	0
4/23/2024 14:05	50201	HARR_T3	6	6	0	0.38	0.52	0.14	0	0	0	0	0	0	0	0
4/23/2024 14:05	60801	BUCK_T1	0	1	1	0	0.2	0.2	0.16	0.16	0	0	0	0	0	0
4/23/2024 14:06	46302	ROHR_T1	21	24	3	0.98	0.89	-0.09	0.15	0.15	0	0	0	0	0	0
4/23/2024 14:06	46301	ROHR_T1	204	192	-12	0.3	0.3	0	0	0	0	0	0	0	0	0
4/23/2024 14:06	14402	SSLA_T1	5	5	0	0.5	0.52	0.02	0	0	0	0	0	0	0	0
4/23/2024 14:06	14401	SSLA_T1	6	8	2	1.02	0.75	-0.27	-0.53	-0.5	0	0	0	0	0	0
4/23/2024 14:06	14403	SSLA_T1	9	5	-4	0.63	0.86	0.23	0	0	0	0	0	0	0	0
4/23/2024 14:06	14404	SSLA_T1	9	11	2	1.18	1	-0.18	0	0	0	0	0	0	0	0
4/23/2024 14:06	54601	SUMM_T2	6	5	-1	0.48	0.5	0.02	-1.82	-1.84	2	2	0	2100	2100	0
4/23/2024 14:07	54601	SUMM_T2	6	5	-1	0.48	0.5	0.02	-1.82	-1.84	2	2	0	2100	2100	0
4/23/2024 14:08	45902	AUBU_T1	12	12	0	0.86	0.81	-0.05	-0.89	-0.78	1	1	0	600	600	0
4/23/2024 14:08	54601	SUMM_T2	6	5	-1	0.48	0.5	0.02	-1.84	-1.86	2	2	0	2100	2100	0
4/23/2024 14:08	45901	AUBU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/23/2024 14:10	25603	ARRO_T1	35	33	-2	0.24	0.23	-0.01	-0.21	-0.22	0	0	0	0	0	0
4/23/2024 14:11	11201	ELHE_T2	0	1	1	0	0.2	0.2	0.09	0.11	2	2	0	2400	2400	0
4/23/2024 14:12	45902	AUBU_T1	12	12	0	0.86	0.81	-0.05	-0.89	-0.78	1	1	0	600	600	0
4/23/2024 14:12	45901	AUBU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/23/2024 14:13	48303	ORWI_T2	2	2	0	1.15	0.65	-0.5	0	0	0	0	0	0	0	0
4/23/2024 14:13	48302	ORWI_T2	5	4	-1	1.12	1.1	-0.02	0	0	0	0	0	0	0	0
4/23/2024 14:15	41802	GOCI_T2	17	20	3	0.28	0.29	0.01	0	0	0	0	0	0	0	0
4/23/2024 14:15	41801	GOCI_T2	333	352	19	0.76	0.91	0.15	0	0	0	0	0	0	0	0
4/23/2024 14:15	25603	ARRO_T1	31	43	12	0.23	0.34	0.11	-0.21	-0.22	0	0	0	0	0	0
4/23/2024 14:15	60801	BUCK_T1	0	1	1	0	0.2	0.2	0.16	0.17	0	0	0	0	0	0
4/23/2024 14:16	64202	KINZ_T1	2	1	-1	0.15	0.1	-0.05	0.71	0.8	0	0	0	0	0	0
4/23/2024 14:16	64204	KINZ_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
4/23/2024 14:16	59002	MIFF_T1	5	5	0	0.16	0.36	0.2	0	0	0	0	0	0	0	0
4/23/2024 14:16	59003	MIFF_T1	1	1	0	0.3	0.6	0.3	-0.21	-0.17	0	0	0	0	0	0
4/23/2024 14:16	59001	MIFF_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/23/2024 14:17	54504	ENOL_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/23/2024 14:17	45902	AUBU_T1	12	10	-2	0.81	0.7	-0.11	-0.89	-0.78	1	1	0	600	600	0
4/23/2024 14:17	54503	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/23/2024 14:17	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/23/2024 14:17	54501	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/23/2024 14:17	45901	AUBU_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 14:17	54505	ENOL_T2	3	3	0	0.63	0.5	-0.13	-1.39	-1.37	1	1	0	600	600	0
4/23/2024 14:18	41202	KENM_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/23/2024 14:18	41204	KENM_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
4/23/2024 14:20	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/23/2024 14:20	65205	PRIN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 14:21	13601	RICH_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/23/2024 14:21	13606	RICH_T2	2	2	0	3.9	3.9	0	1.29	1.21	0	0	0	0	0	0
4/23/2024 14:21	60801	BUCK_T1	0	1	1	0	0.2	0.2	0.16	0.17	0	0	0	0	0	0
4/23/2024 14:22	42701	AUGU_T1	1	1	0	0.2	0.1	-0.1	0	0	1	1	0	600	600	0
4/23/2024 14:25	43301	WATS_T2	1	2	1	0.3	0.4	0.1	0	0	1	1	0	900	900	0
4/23/2024 14:26	45902	AUBU_T1	12	10	-2	0.81	0.7	-0.11	-0.78	-0.72	1	1	0	600	600	0
4/23/2024 14:26	45901	AUBU_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 14:27	45902	AUBU_T1	12	10	-2	0.81	0.7	-0.11	-0.78	-0.72	1	1	0	600	600	0
4/23/2024 14:27	45901	AUBU_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 14:29	47901	HRDG_T1	0	0	0	0	0	0	1.93	2.12	0	0	0	0	0	0
4/23/2024 14:31	24902	WHHA_T1	27	16	-11	0.65	0.81	0.16	0	0	0	0	0	0	0	0
4/23/2024 14:31	24901	WHHA_T1	14	63	49	0.32	0.23	-0.09	0	0	0	0	0	0	0	0
4/23/2024 14:33	45902	AUBU_T1	5	12	7	0.92	0.7	-0.22	-0.78	-0.72	1	1	0	600	600	0
4/23/2024 14:33	45901	AUBU_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 14:38	45901	AUBU_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 14:38	45902	AUBU_T1	5	12	7	0.92	0.7	-0.22	-0.72	-0.76	1	1	0	600	600	0
4/23/2024 14:42	45901	AUBU_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 14:42	45902	AUBU_T1	5	12	7	0.92	0.7	-0.22	-0.72	-0.76	1	1	0	600	600	0
4/23/2024 14:43	45901	AUBU_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 14:43	45902	AUBU_T1	5	12	7	0.92	0.7	-0.22	-0.72	-0.76	1	1	0	600	600	0
4/23/2024 14:44	24101	EHAZ_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
4/23/2024 14:44	24105	EHAZ_T1	4	4	0	5.63	5.28	-0.35	0	0	0	0	0	0	0	0
4/23/2024 14:44	24102	EHAZ_T1	0	1	1	0	1.1	1.1	0.26	0.23	0	0	0	0	0	0
4/23/2024 14:44	24104	EHAZ_T1	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
4/23/2024 14:46	41801	GOCI_T2	344	374	30	0.82	1.13	0.31	0	0	0	0	0	0	0	0
4/23/2024 14:46	41802	GOCI_T2	19	22	3	0.28	0.37	0.09	0	0	0	0	0	0	0	0
4/23/2024 14:47	41802	GOCI_T2	19	22	3	0.28	0.37	0.09	0	0	0	0	0	0	0	0
4/23/2024 14:47	41801	GOCI_T2	344	374	30	0.82	1.13	0.31	0	0	0	0	0	0	0	0
4/23/2024 14:51	57401	SPAN_T1	9	7	-2	0.38	0.47	0.09	-0.93	-1	1	1	0	600	600	0
4/23/2024 14:51	57403	SPAN_T1	126	163	37	0.28	0.31	0.03	0	0	0	0	0	0	0	0
4/23/2024 14:52	57403	SPAN_T1	126	163	37	0.28	0.31	0.03	0	0	0	0	0	0	0	0
4/23/2024 14:52	57401	SPAN_T1	9	7	-2	0.38	0.47	0.09	-1.85	-2	2	2	0	1200	1200	0
4/23/2024 14:53	57401	SPAN_T1	9	7	-2	0.38	0.47	0.09	0	0	0	0	0	0	0	0
4/23/2024 14:53	57403	SPAN_T1	126	163	37	0.28	0.31	0.03	-0.06	-0.06	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/23/2024 14:54	61102	BERK_T5	3	1	-2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/23/2024 14:54	45901	AUBU_T1	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/23/2024 14:54	57403	SPAN_T1	126	163	37	0.28	0.31	0.03	-0.06	-0.06	0	0	0	0	0	0
4/23/2024 14:54	57401	SPAN_T1	9	7	-2	0.38	0.47	0.09	-1	-0.96	1	1	0	600	600	0
4/23/2024 14:54	45902	AUBU_T1	10	11	1	0.7	0.75	0.05	-0.76	-0.8	1	1	0	600	600	0
4/23/2024 14:54	61103	BERK_T5	14	8	-6	0.26	0.28	0.02	-0.01	0.03	0	0	0	0	0	0
4/23/2024 14:54	61101	BERK_T5	7	5	-2	0.51	0.4	-0.11	0	0	0	0	0	0	0	0
4/23/2024 14:55	57401	SPAN_T1	9	7	-2	0.38	0.47	0.09	-1	-0.96	1	1	0	600	600	0
4/23/2024 14:55	61102	BERK_T5	3	1	-2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/23/2024 14:55	61103	BERK_T5	14	8	-6	0.26	0.28	0.02	-0.01	0.03	0	0	0	0	0	0
4/23/2024 14:55	61101	BERK_T5	7	5	-2	0.51	0.4	-0.11	0	0	0	0	0	0	0	0
4/23/2024 14:55	57403	SPAN_T1	126	163	37	0.28	0.31	0.03	0	0	0	0	0	0	0	0
4/23/2024 14:57	61102	BERK_T5	3	1	-2	0.3	0.4	0.1	0.68	0.71	1	1	0	300	300	0
4/23/2024 14:57	61101	BERK_T5	7	5	-2	0.51	0.4	-0.11	0	0	0	0	0	0	0	0
4/23/2024 14:57	61103	BERK_T5	14	8	-6	0.26	0.28	0.02	0	0	0	0	0	0	0	0
4/23/2024 14:58	61101	BERK_T5	7	5	-2	0.51	0.4	-0.11	0	0	0	0	0	0	0	0
4/23/2024 14:58	61103	BERK_T5	14	8	-6	0.26	0.28	0.02	-0.01	0.03	0	0	0	0	0	0
4/23/2024 14:58	61102	BERK_T5	3	1	-2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/23/2024 14:58	45901	AUBU_T1	2	1	-1	0.2	0.3	0.1	1.88	1.88	0	0	0	0	0	0
4/23/2024 14:58	45902	AUBU_T1	10	11	1	0.7	0.75	0.05	0	0	0	0	0	0	0	0
4/23/2024 14:59	45902	AUBU_T1	10	11	1	0.7	0.75	0.05	-0.76	-0.8	1	1	0	600	600	0
4/23/2024 14:59	45901	AUBU_T1	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/23/2024 15:03	54505	ENOL_T2	2	0	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/23/2024 15:03	54501	ENOL_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
4/23/2024 15:03	54502	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/23/2024 15:07	66504	SMAN_T2	2	2	0	0.35	0.65	0.3	-0.72	-0.61	0	0	0	0	0	0
4/23/2024 15:07	66505	SMAN_T2	1	4	3	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
4/23/2024 15:07	66503	SMAN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/23/2024 15:07	66501	SMAN_T2	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
4/23/2024 15:07	66502	SMAN_T2	10	13	3	0.33	0.38	0.05	0	0	0	0	0	0	0	0
4/23/2024 15:08	66504	SMAN_T2	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
4/23/2024 15:08	66503	SMAN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/23/2024 15:08	66501	SMAN_T2	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
4/23/2024 15:08	66505	SMAN_T2	1	4	3	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
4/23/2024 15:08	66502	SMAN_T2	10	13	3	0.33	0.38	0.05	0.34	0.1	0	0	0	0	0	0
4/23/2024 15:09	10602	BLGL_T2	3	6	3	1.27	1.02	-0.25	0.38	0.55	0	0	0	0	0	0
4/23/2024 15:09	45902	AUBU_T1	11	12	1	0.74	0.68	-0.06	-0.8	-0.85	1	1	0	600	600	0
4/23/2024 15:09	45901	AUBU_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/23/2024 15:10	66501	SMAN_T2	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
4/23/2024 15:10	66502	SMAN_T2	10	13	3	0.33	0.38	0.05	0.68	0.21	0	0	0	0	0	0
4/23/2024 15:10	51604	DUKE_T2	2	3	1	0.5	0.43	-0.07	-0.35	-0.35	0	0	0	0	0	0
4/23/2024 15:10	66503	SMAN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/23/2024 15:10	66505	SMAN_T2	1	4	3	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
4/23/2024 15:10	51602	DUKE_T2	0	2	2	0	0.5	0.5	-0.21	-0.16	0	0	0	0	0	0
4/23/2024 15:10	66504	SMAN_T2	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
4/23/2024 15:11	51604	DUKE_T2	2	3	1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
4/23/2024 15:11	51602	DUKE_T2	0	2	2	0	0.5	0.5	-0.21	-0.16	0	0	0	0	0	0
4/23/2024 15:12	63804	HEMP_T1	3	4	1	2.07	1.65	-0.42	0	0	0	0	0	0	0	0
4/23/2024 15:12	63802	HEMP_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 15:12	63803	HEMP_T1	4	6	2	0.45	0.46	0.01	0.19	0.19	0	0	0	0	0	0
4/23/2024 15:12	63801	HEMP_T1	11	10	-1	0.43	0.5	0.07	0	0	0	0	0	0	0	0
4/23/2024 15:12	14203	EALL_T1	4	3	-1	0.43	0.57	0.14	-0.14	-0.22	1	1	0	1200	1200	0
4/23/2024 15:13	51602	DUKE_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
4/23/2024 15:13	51604	DUKE_T2	2	3	1	0.5	0.43	-0.07	-0.35	-0.35	0	0	0	0	0	0
4/23/2024 15:14	51604	DUKE_T2	2	3	1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
4/23/2024 15:14	51602	DUKE_T2	0	2	2	0	0.5	0.5	-0.21	-0.16	0	0	0	0	0	0
4/23/2024 15:15	45902	AUBU_T1	10	12	2	0.74	0.59	-0.15	-0.8	-0.85	1	1	0	600	600	0
4/23/2024 15:15	45901	AUBU_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/23/2024 15:16	63302	GREE_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
4/23/2024 15:16	63306	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 15:16	45801	HEGI_T1	0	0	0	0	0	0	-0.07	-0.08	1	1	0	900	900	0
4/23/2024 15:17	13503	MCMI_T2	3	1	-2	0.53	1	0.47	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 15:18	50504	MECH_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/23/2024 15:18	46001	BERW_T1	2	2	0	0.25	0.35	0.1	0.91	0.97	0	0	0	0	0	0
4/23/2024 15:18	50505	MECH_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 15:18	50506	MECH_T1	3	3	0	0.57	0.57	0	-0.01	-0.14	1	1	0	900	900	0
4/23/2024 15:18	13502	MCMI_T1	8	12	4	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
4/23/2024 15:18	13503	MCMI_T2	3	1	-2	0.53	1	0.47	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 15:18	50503	MECH_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/23/2024 15:18	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
4/23/2024 15:18	50501	MECH_T1	4	4	0	0.88	1.08	0.2	0	0	0	0	0	0	0	0
4/23/2024 15:18	50502	MECH_T1	1	1	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 15:18	46005	BERW_T1	2	4	2	0.35	0.5	0.15	0	0	0	0	0	0	0	0
4/23/2024 15:20	13503	MCMI_T2	3	1	-2	0.53	1	0.47	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 15:21	13801	SALI_T1	0	0	0	0	0	0	1.87	1.75	0	0	0	0	0	0
4/23/2024 15:21	57403	SPAN_T1	123	175	52	0.32	0.35	0.03	0	0	0	0	0	0	0	0
4/23/2024 15:21	13805	SALI_T1	4	3	-1	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
4/23/2024 15:21	13807	SALI_T1	4	5	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
4/23/2024 15:21	57401	SPAN_T1	5	5	0	0.18	0.74	0.56	-0.96	-0.93	1	1	0	600	600	0
4/23/2024 15:22	43302	WATS_T2	3	4	1	0.17	0.2	0.03	0	0	0	0	0	0	0	0
4/23/2024 15:22	43301	WATS_T2	0	1	1	0	0.3	0.3	-0.77	-0.76	1	1	0	900	900	0
4/23/2024 15:23	50505	MECH_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 15:23	50503	MECH_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/23/2024 15:23	50501	MECH_T1	4	4	0	0.88	1.08	0.2	0	0	0	0	0	0	0	0
4/23/2024 15:23	50504	MECH_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/23/2024 15:23	13103	NHAM_T2	0	0	0	0	0	0	-1.73	-1.75	1	1	0	600	600	0
4/23/2024 15:23	50506	MECH_T1	3	3	0	0.57	0.57	0	-0.14	0.03	1	1	0	900	900	0
4/23/2024 15:23	46001	BERW_T1	2	2	0	0.25	0.35	0.1	0.91	0.97	0	0	0	0	0	0
4/23/2024 15:23	46005	BERW_T1	2	4	2	0.35	0.5	0.15	0	0	0	0	0	0	0	0
4/23/2024 15:23	50502	MECH_T1	1	1	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 15:24	20401	ASHF_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/23/2024 15:24	20403	ASHF_T2	10	4	-6	0.48	0.73	0.25	0.9	0.9	0	0	0	0	0	0
4/23/2024 15:25	45902	AUBU_T1	10	12	2	0.74	0.59	-0.15	-0.85	-0.18	1	0	-1	600	0	-600
4/23/2024 15:25	45901	AUBU_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/23/2024 15:26	43302	WATS_T2	3	4	1	0.17	0.2	0.03	0	0	0	0	0	0	0	0
4/23/2024 15:26	43301	WATS_T2	0	1	1	0	0.3	0.3	-0.76	-0.76	1	1	0	900	900	0
4/23/2024 15:26	22003	BOHE_T1	3	3	0	1.3	0.77	-0.53	0	0	0	0	0	0	0	0
4/23/2024 15:27	41502	FAIR_T2	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
4/23/2024 15:30	45902	AUBU_T1	12	3	-9	0.59	1.03	0.44	-0.85	-0.18	1	0	-1	600	0	-600
4/23/2024 15:30	45901	AUBU_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/23/2024 15:39	61505	EPET_T1	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/23/2024 15:39	61502	EPET_T1	2	1	-1	0.3	0.1	-0.2	-0.82	-0.81	0	0	0	0	0	0
4/23/2024 15:39	13105	NHAM_T2	0	0	0	0	0	0	-0.82	-0.8	1	1	0	1200	1200	0
4/23/2024 15:41	45901	AUBU_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/23/2024 15:41	45902	AUBU_T1	12	3	-9	0.59	1.03	0.44	-0.18	-0.24	0	0	0	0	0	0
4/23/2024 15:42	10903	COOP_T2	2	1	-1	0.85	1.4	0.55	0	0	0	0	0	0	0	0
4/23/2024 15:42	10901	COOP_T2	0	0	0	0	0	0	1.36	1.35	0	0	0	0	0	0
4/23/2024 15:42	22003	BOHE_T1	3	3	0	0.77	0.67	-0.1	0	0	0	0	0	0	0	0
4/23/2024 15:43	41502	FAIR_T2	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
4/23/2024 15:44	64201	KINZ_T1	0	3	3	0	0.23	0.23	-0.26	-0.09	2	1	-1	1200	900	-300
4/23/2024 15:44	64202	KINZ_T1	3	3	0	0.37	0.93	0.56	0	0	0	0	0	0	0	0
4/23/2024 15:44	64204	KINZ_T1	2	3	1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/23/2024 15:45	64201	KINZ_T1	1	3	2	0.1	0.33	0.23	-0.26	-0.09	2	1	-1	1200	900	-300
4/23/2024 15:45	64202	KINZ_T1	3	3	0	0.73	0.93	0.2	0	0	0	0	0	0	0	0
4/23/2024 15:45	64204	KINZ_T1	3	3	0	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
4/23/2024 15:46	45902	AUBU_T1	3	1	-2	1.03	0.8	-0.23	-0.18	-0.24	0	0	0	0	0	0
4/23/2024 15:47	46506	LOHA_T1	0	0	0	0	0	0	-0.47	-0.45	0	0	0	0	0	0
4/23/2024 15:47	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 15:47	46504	LOHA_T1	116	94	-22	0.76	0.63	-0.13	0	0	0	0	0	0	0	0
4/23/2024 15:49	41001	LAUR_T2	4	3	-1	0.73	0.9	0.17	0	0	0	0	0	0	0	0
4/23/2024 15:49	41002	LAUR_T2	2	2	0	1.75	1.45	-0.3	0	0.01	0	0	0	0	0	0
4/23/2024 15:50	51402	LYKE_T1	4	109	105	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/23/2024 15:50	51401	LYKE_T1	0	2	2	0	0.3	0.3	0.3	0.27	0	0	0	0	0	0
4/23/2024 15:51	51401	LYKE_T1	0	2	2	0	0.3	0.3	0.3	0.27	0	0	0	0	0	0
4/23/2024 15:51	57401	SPAN_T1	3	5	2	0.43	0.44	0.01	-0.9	-0.9	1	1	0	600	600	0
4/23/2024 15:51	51402	LYKE_T1	4	109	105	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/23/2024 15:51	57403	SPAN_T1	142	178	36	0.27	0.4	0.13	0	0	0	0	0	0	0	0
4/23/2024 15:52	57403	SPAN_T1	142	178	36	0.27	0.4	0.13	0	0	0	0	0	0	0	0
4/23/2024 15:52	57401	SPAN_T1	3	5	2	0.43	0.44	0.01	-0.9	-0.9	1	1	0	600	600	0
4/23/2024 15:52	43301	WATS_T2	1	1	0	0.3	0.5	0.2	-0.76	-0.74	1	1	0	900	900	0
4/23/2024 15:52	43302	WATS_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 15:54	57401	SPAN_T1	3	5	2	0.43	0.44	0.01	-0.9	-0.94	1	1	0	600	600	0
4/23/2024 15:54	57403	SPAN_T1	142	178	36	0.27	0.4	0.13	0	0	0	0	0	0	0	0
4/23/2024 15:55	51402	LYKE_T1	4	109	105	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/23/2024 15:55	51401	LYKE_T1	0	2	2	0	0.3	0.3	0.27	0.29	0	0	0	0	0	0
4/23/2024 15:55	57401	SPAN_T1	3	5	2	0.43	0.44	0.01	-0.9	-0.94	1	1	0	600	600	0
4/23/2024 15:55	57403	SPAN_T1	142	178	36	0.27	0.4	0.13	0	0	0	0	0	0	0	0
4/23/2024 15:56	66703	STRA_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
4/23/2024 15:56	66701	STRA_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
4/23/2024 15:56	10805	OHH_T2	1	1	0	7.7	7.9	0.2	-0.71	-0.79	0	0	0	0	0	0
4/23/2024 15:57	41601	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/23/2024 15:57	41602	CLEV_T1	2	3	1	0.65	0.8	0.15	0	0	0	0	0	0	0	0
4/23/2024 15:57	15001	BLMO_T1	7	4	-3	0.63	0.83	0.2	0	0	0	0	0	0	0	0
4/23/2024 15:57	45902	AUBU_T1	3	1	-2	1.03	0.8	-0.23	-0.24	-0.25	0	0	0	0	0	0
4/23/2024 15:59	41802	GOCI_T2	27	25	-2	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
4/23/2024 15:59	41801	GOCI_T2	365	368	3	1	1.09	0.09	0	0	0	0	0	0	0	0
4/23/2024 16:00	10805	OHH_T2	1	1	0	8	7.7	-0.3	-0.71	-0.79	0	0	0	0	0	0
4/23/2024 16:00	41301	FISH_T1	91	159	68	0.2	0.2	0	-0.08	-0.08	0	0	0	0	0	0
4/23/2024 16:00	41305	FISH_T1	4	6	2	0.1	0.1	0	0	0	0	0	0	0	0	0
4/23/2024 16:01	46504	LOHA_T1	85	95	10	0.53	0.64	0.11	0	0	0	0	0	0	0	0
4/23/2024 16:01	46506	LOHA_T1	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
4/23/2024 16:02	51401	LYKE_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/23/2024 16:02	51402	LYKE_T1	30	105	75	0.18	0.17	-0.01	-1.32	-1.44	1	1	0	600	600	0
4/23/2024 16:02	45902	AUBU_T1	1	1	0	0.8	0.5	-0.3	-0.24	-0.25	0	0	0	0	0	0
4/23/2024 16:05	51401	LYKE_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/23/2024 16:05	51402	LYKE_T1	30	105	75	0.18	0.17	-0.01	-1.32	-1.44	1	1	0	600	600	0
4/23/2024 16:06	47403	PENS_T1	7	6	-1	0.37	0.52	0.15	0	0	0	0	0	0	0	0
4/23/2024 16:06	51401	LYKE_T1	1	2	1	0.2	0.3	0.1	0.27	0.29	0	0	0	0	0	0
4/23/2024 16:06	47401	PENS_T1	5	3	-2	0.76	1.03	0.27	1.11	1.14	0	0	0	0	0	0
4/23/2024 16:06	47402	PENS_T1	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/23/2024 16:06	51402	LYKE_T1	30	105	75	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
4/23/2024 16:08	47402	PENS_T1	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/23/2024 16:08	47401	PENS_T1	5	3	-2	0.76	1.03	0.27	1.11	1.14	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/23/2024 16:08	47403	PENS_T1	7	6	-1	0.37	0.52	0.15	0	0	0	0	0	0	0	0
4/23/2024 16:09	61801	EELI_T2	0	2	2	0	0.25	0.25	-0.17	-0.2	0	0	0	0	0	0
4/23/2024 16:09	61803	EELI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/23/2024 16:11	51402	LYKE_T1	30	105	75	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
4/23/2024 16:11	51401	LYKE_T1	1	2	1	0.2	0.3	0.1	0.29	0.28	0	0	0	0	0	0
4/23/2024 16:12	45902	AUBU_T1	1	1	0	0.8	0.5	-0.3	-0.25	-0.32	0	0	0	0	0	0
4/23/2024 16:14	41502	FAIR_T2	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
4/23/2024 16:18	45902	AUBU_T1	1	1	0	0.5	0.3	-0.2	-0.25	-0.32	0	0	0	0	0	0
4/23/2024 16:26	40802	EXCH_T2	0	1	1	0	0.1	0.1	-0.29	-0.31	0	0	0	0	0	0
4/23/2024 16:27	40802	EXCH_T2	0	1	1	0	0.1	0.1	-0.29	-0.31	0	0	0	0	0	0
4/23/2024 16:28	40802	EXCH_T2	0	1	1	0	0.1	0.1	-0.29	-0.31	0	0	0	0	0	0
4/23/2024 16:28	45902	AUBU_T1	1	1	0	0.5	0.3	-0.2	-0.32	-0.32	0	0	0	0	0	0
4/23/2024 16:32	50103	HARR_T3	2	3	1	0.1	0.4	0.3	-1.32	-1.45	2	2	0	2400	2400	0
4/23/2024 16:32	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
4/23/2024 16:32	50201	HARR_T3	2	2	0	4.55	9.3	4.75	0	0	0	0	0	0	0	0
4/23/2024 16:32	51402	LYKE_T1	4	2	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/23/2024 16:32	50105	HARR_T3	6	6	0	5.82	5.87	0.05	0	0	0	0	0	0	0	0
4/23/2024 16:33	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
4/23/2024 16:33	45902	AUBU_T1	1	1	0	0.2	0.3	0.1	-0.32	-0.32	0	0	0	0	0	0
4/23/2024 16:33	51402	LYKE_T1	4	2	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/23/2024 16:35	59202	THOM_T1	67	331	264	0.24	0.24	0	0	0	0	0	0	0	0	0
4/23/2024 16:35	59201	THOM_T1	5	17	12	0.16	0.22	0.06	0	0	0	0	0	0	0	0
4/23/2024 16:36	50201	HARR_T3	2	2	0	4.55	9.3	4.75	0	0	0	0	0	0	0	0
4/23/2024 16:36	50105	HARR_T3	6	6	0	5.82	5.87	0.05	0	0	0	0	0	0	0	0
4/23/2024 16:36	50103	HARR_T3	2	3	1	0.1	0.4	0.3	-0.66	-0.72	1	1	0	1200	1200	0
4/23/2024 16:37	59202	THOM_T1	67	331	264	0.24	0.24	0	0	0	0	0	0	0	0	0
4/23/2024 16:37	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
4/23/2024 16:37	51402	LYKE_T1	4	2	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/23/2024 16:37	59201	THOM_T1	5	17	12	0.16	0.22	0.06	0	0	0	0	0	0	0	0
4/23/2024 16:39	20403	ASHF_T2	43	39	-4	0.73	0.75	0.02	0.15	0.24	0	0	0	0	0	0
4/23/2024 16:41	20403	ASHF_T2	43	39	-4	0.73	0.75	0.02	0.15	0.24	0	0	0	0	0	0
4/23/2024 16:42	21206	ECAR_T2	1	1	0	8.1	7.6	-0.5	1.06	1.09	0	0	0	0	0	0
4/23/2024 16:42	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 16:43	21206	ECAR_T2	1	1	0	8.1	7.6	-0.5	1.06	1.09	0	0	0	0	0	0
4/23/2024 16:43	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 16:53	14603	SWHI_T1	2	4	2	0.6	0.45	-0.15	-1	-1.07	1	1	0	600	600	0
4/23/2024 16:53	14602	SWHI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 16:56	51102	CARL_T1	4	3	-1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
4/23/2024 16:56	51109	CARL_T1	0	0	0	0	0	0	-1.04	-1.04	1	1	0	1200	1200	0
4/23/2024 16:57	45802	HEGI_T2	1	43	42	0.9	1.09	0.19	0.95	0.65	0	0	0	0	0	0
4/23/2024 16:58	45802	HEGI_T2	1	43	42	0.9	1.09	0.19	0.95	0.65	0	0	0	0	0	0
4/23/2024 16:59	25402	LAHA_T2	0	0	0	0	0	0	-0.57	-0.61	0	0	0	0	0	0
4/23/2024 17:03	47104	MARL_T1	0	0	0	0	0	0	0.37	0.47	0	0	0	0	0	0
4/23/2024 17:07	14601	SWHI_T1	0	0	0	0	0	0	-0.37	-0.4	0	0	0	0	0	0
4/23/2024 17:07	14602	SWHI_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/23/2024 17:07	14603	SWHI_T1	4	3	-1	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
4/23/2024 17:15	12003	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 17:15	12002	HATF_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
4/23/2024 17:17	40101	HUNT_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
4/23/2024 17:25	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 17:25	29402	BELT_T1	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
4/23/2024 17:31	52002	LING_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/23/2024 17:31	52006	LING_T2	3	3	0	0.87	1.07	0.2	0	0	0	0	0	0	0	0
4/23/2024 17:31	52004	LING_T2	1	1	0	0.3	0.2	-0.1	0.05	0.1	0	0	0	0	0	0
4/23/2024 17:34	60802	BUCK_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
4/23/2024 17:37	56501	ROCK_T2	2	2	0	0.7	0.75	0.05	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 17:39	56501	ROCK_T2	2	2	0	0.7	0.75	0.05	-0.02	-0.02	0	0	0	0	0	0
4/23/2024 17:40	56501	ROCK_T2	2	2	0	0.7	0.75	0.05	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 17:40	59102	WALK_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/23/2024 17:40	59101	WALK_T2	0	0	0	0	0	0	1.3	1.35	0	0	0	0	0	0
4/23/2024 17:44	46001	BERW_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
4/23/2024 17:45	52004	LING_T2	1	1	0	0.2	0.4	0.2	0.1	0.09	0	0	0	0	0	0
4/23/2024 17:45	56501	ROCK_T2	2	2	0	0.6	0.85	0.25	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 17:45	52002	LING_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/23/2024 17:45	52006	LING_T2	3	3	0	1	1.03	0.03	0	0	0	0	0	0	0	0
4/23/2024 17:46	59301	MCAL_T1	2	3	1	0.75	0.7	-0.05	-1.22	-1.24	0	0	0	0	0	0
4/23/2024 17:46	59302	MCAL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 17:48	54201	PENN_T1	3	9	6	1.3	0.62	-0.68	0	0	0	0	0	0	0	0
4/23/2024 17:48	54203	PENN_T1	18	18	0	0.77	0.96	0.19	0.03	0.01	0	0	0	0	0	0
4/23/2024 17:49	54203	PENN_T1	18	18	0	0.77	0.96	0.19	0.03	0.01	0	0	0	0	0	0
4/23/2024 17:49	54201	PENN_T1	3	9	6	1.3	0.62	-0.68	0	0	0	0	0	0	0	0
4/23/2024 17:50	50102	HARR_T3	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/23/2024 17:50	54203	PENN_T1	18	18	0	0.77	0.96	0.19	0.05	0.02	0	0	0	0	0	0
4/23/2024 17:50	50201	HARR_T3	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/23/2024 17:50	50103	HARR_T3	2	2	0	0.65	0.85	0.2	-0.73	-0.69	1	1	0	1200	1200	0
4/23/2024 17:50	50105	HARR_T3	6	6	0	5.77	5.53	-0.24	0	0	0	0	0	0	0	0
4/23/2024 17:50	25503	MADI_T1	182	323	141	0.3	0.4	0.1	-1.09	-1.08	0	0	0	0	0	0
4/23/2024 17:50	50106	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 17:50	54201	PENN_T1	3	9	6	1.3	0.62	-0.68	0	0	0	0	0	0	0	0
4/23/2024 17:50	50202	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 17:51	54203	PENN_T1	18	18	0	0.77	0.96	0.19	0	0	0	0	0	0	0	0
4/23/2024 17:51	54201	PENN_T1	3	9	6	1.3	0.62	-0.68	0.32	0.34	0	0	0	0	0	0
4/23/2024 17:53	13704	SCHN_T2	0	2	2	0	0.1	0.1	-0.38	-0.36	0	0	0	0	0	0
4/23/2024 18:04	47102	MARL_T2	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
4/23/2024 18:04	12605	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 18:04	47103	MARL_T2	0	0	0	0	0	0	-0.62	-0.56	0	0	0	0	0	0
4/23/2024 18:04	12601	MACA_T1	0	0	0	0	0	0	0.61	0.63	0	0	0	0	0	0
4/23/2024 18:05	65502	MOJO_T2	0	122	122	0	0.11	0.11	-0.7	-0.79	0	0	0	0	0	0
4/23/2024 18:05	65503	MOJO_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
4/23/2024 18:05	47103	MARL_T2	0	0	0	0	0	0	-0.62	-0.56	0	0	0	0	0	0
4/23/2024 18:05	47102	MARL_T2	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
4/23/2024 18:07	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/23/2024 18:07	14603	SWHI_T1	0	0	0	0	0	0	-1.07	-1.09	1	1	0	600	600	0
4/23/2024 18:09	13704	SCHN_T2	2	4	2	0.1	0.13	0.03	-0.4	-0.39	0	0	0	0	0	0
4/23/2024 18:09	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/23/2024 18:10	51304	WIND_T2	0	0	0	0	0	0	-0.15	-0.09	0	0	0	0	0	0
4/23/2024 18:11	64501	LAVI_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
4/23/2024 18:14	64701	LITI_T1	0	0	0	0	0	0	0.19	0.26	0	0	0	0	0	0
4/23/2024 18:15	64501	LAVI_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
4/23/2024 18:19	63804	HEMP_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
4/23/2024 18:19	63801	HEMP_T1	0	0	0	0	0	0	-0.25	-0.37	0	0	0	0	0	0
4/23/2024 18:20	65207	PRIN_T4	28	23	-5	0.13	0.15	0.02	0	0	2	2	0	1800	1800	0
4/23/2024 18:21	66203	SISP_T2	0	0	0	0	0	0	-1.26	-1.21	1	1	0	1200	1200	0
4/23/2024 18:24	51108	CARL_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/23/2024 18:24	51102	CARL_T1	23	9	-14	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
4/23/2024 18:24	51107	CARL_T1	0	0	0	0	0	0	-0.28	-0.23	0	0	0	0	0	0
4/23/2024 18:25	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/23/2024 18:26	51107	CARL_T1	0	0	0	0	0	0	-0.28	-0.23	0	0	0	0	0	0
4/23/2024 18:26	51102	CARL_T1	23	9	-14	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
4/23/2024 18:26	51101	CARL_T1	0	0	0	0	0	0	-1.46	-1.48	1	1	0	600	600	0
4/23/2024 18:26	51108	CARL_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/23/2024 18:27	63305	GREE_T1	0	0	0	0	0	0	-1.15	-1.1	0	0	0	0	0	0
4/23/2024 18:27	50102	HARR_T3	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/23/2024 18:27	50103	HARR_T3	2	2	0	0.3	1	0.7	-0.76	-0.75	1	1	0	1200	1200	0
4/23/2024 18:27	50105	HARR_T3	6	6	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
4/23/2024 18:27	50201	HARR_T3	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/23/2024 18:30	12006	HATF_T1	0	0	0	0	0	0	0.07	0.01	1	1	0	1200	1200	0
4/23/2024 18:32	25501	MADI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 18:32	25503	MADI_T1	177	213	36	0.35	0.27	-0.08	-1.07	-1.07	0	0	0	0	0	0
4/23/2024 18:33	62607	ENGL_T1	0	0	0	0	0	0	-1.15	-1.14	1	1	0	300	300	0
4/23/2024 18:33	63305	GREE_T1	0	0	0	0	0	0	-1.15	-1.1	0	0	0	0	0	0
4/23/2024 18:34	52501	PROG_T1	0	0	0	0	0	0	1.39	1.48	0	0	0	0	0	0
4/23/2024 18:35	65903	SAKR_T2	0	0	0	0	0	0	-1.28	-1.26	3	3	0	2100	2100	0
4/23/2024 18:35	52501	PROG_T1	0	0	0	0	0	0	0.69	0.74	0	0	0	0	0	0
4/23/2024 18:35	65901	SAKR_T2	1	1	0	9	9	0	0	0	0	0	0	0	0	0
4/23/2024 18:36	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 18:37	65901	SAKR_T2	1	1	0	9	9	0	0	0	0	0	0	0	0	0
4/23/2024 18:37	65903	SAKR_T2	0	0	0	0	0	0	-2.56	-2.53	6	6	0	4200	4200	0
4/23/2024 18:38	29402	BELT_T1	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0	0
4/23/2024 18:38	14603	SWHI_T1	0	0	0	0	0	0	-1.08	-1.07	1	1	0	600	600	0
4/23/2024 18:38	14602	SWHI_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/23/2024 18:38	65903	SAKR_T2	0	0	0	0	0	0	-2.53	-2.53	6	6	0	4200	4200	0
4/23/2024 18:38	65901	SAKR_T2	1	1	0	9	9	0	0	0	0	0	0	0	0	0
4/23/2024 18:38	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 18:38	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 18:40	64501	LAVI_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
4/23/2024 18:40	67502	WEWI_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
4/23/2024 18:40	51603	DUKE_T1	2	2	0	0.8	0.75	-0.05	-0.5	-0.48	0	0	0	0	0	0
4/23/2024 18:43	64501	LAVI_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
4/23/2024 18:45	64501	LAVI_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
4/23/2024 18:48	46502	LOHA_T1	0	0	0	0	0	0	-1.29	-1.34	1	1	0	1200	1200	0
4/23/2024 18:48	46504	LOHA_T1	2	10	8	0.7	0.36	-0.34	0	0	0	0	0	0	0	0
4/23/2024 18:48	48302	ORWI_T2	2	2	0	1.7	1.8	0.1	-0.06	-0.06	0	0	0	0	0	0
4/23/2024 18:48	46506	LOHA_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/23/2024 18:50	57203	ROSS_T1	0	0	0	0	0	0	-0.32	-0.37	0	0	0	0	0	0
4/23/2024 18:52	57203	ROSS_T1	0	0	0	0	0	0	-0.32	-0.37	0	0	0	0	0	0
4/23/2024 18:54	57203	ROSS_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
4/23/2024 18:54	13804	SALI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 18:54	13807	SALI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 18:54	13801	SALI_T1	0	0	0	0	0	0	0.82	0.83	0	0	0	0	0	0
4/23/2024 18:54	63804	HEMP_T1	1	1	0	6.4	6.1	-0.3	0.49	0.43	0	0	0	0	0	0
4/23/2024 18:56	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/23/2024 19:04	54204	PENN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 19:04	54202	PENN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 19:04	54206	PENN_T2	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 19:05	54206	PENN_T2	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 19:05	54204	PENN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 19:05	54202	PENN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 19:08	43105	SMIL_T2	4	17	13	0.13	0.16	0.03	0	0	0	0	0	0	0	0
4/23/2024 19:08	43102	SMIL_T2	8	8	0	0.84	0.96	0.12	-0.93	-0.95	1	1	0	600	600	0
4/23/2024 19:08	43103	SMIL_T2	20	18	-2	0.66	0.8	0.14	0	0	0	0	0	0	0	0
4/23/2024 19:08	54202	PENN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 19:08	54206	PENN_T2	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/23/2024 19:08	54204	PENN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 19:10	14603	SWHI_T1	0	0	0	0	0	0	-1.08	-1.02	1	1	0	600	600	0
4/23/2024 19:10	14602	SWHI_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/23/2024 19:11	64501	LAVI_T1	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
4/23/2024 19:12	61704	ELIZ_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 19:12	61702	ELIZ_T2	0	3	3	0	0.1	0.1	-1.66	-1.7	1	1	0	300	300	0
4/23/2024 19:15	64501	LAVI_T1	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
4/23/2024 19:16	64204	KINZ_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
4/23/2024 19:16	64203	KINZ_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
4/23/2024 19:16	64201	KINZ_T1	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/23/2024 19:20	48302	ORWI_T2	2	2	0	1.8	1.8	0	-0.1	-0.06	0	0	0	0	0	0
4/23/2024 19:25	57203	ROSS_T1	0	0	0	0	0	0	-0.37	-0.34	0	0	0	0	0	0
4/23/2024 19:25	15001	BLMO_T1	4	4	0	0.63	0.73	0.1	0	0	0	0	0	0	0	0
4/23/2024 19:33	51108	CARL_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/23/2024 19:33	51102	CARL_T1	115	70	-45	0.28	0.19	-0.09	0	0	0	0	0	0	0	0
4/23/2024 19:33	51101	CARL_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 19:33	51109	CARL_T1	0	0	0	0	0	0	-1.03	0.08	1	0	-1	1200	0	-1200
4/23/2024 20:09	50105	HARR_T3	6	6	0	6.03	6.05	0.02	0	0	0	0	0	0	0	0
4/23/2024 20:09	50103	HARR_T3	2	2	0	0.9	0.8	-0.1	-0.76	-0.76	1	1	0	1200	1200	0
4/23/2024 20:09	50202	HARR_T3	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/23/2024 20:09	50201	HARR_T3	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/23/2024 20:12	10805	CHHI_T2	1	6	5	7.8	7.9	0.1	-0.78	-0.74	0	0	0	0	0	0
4/23/2024 20:18	45701	LIND_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
4/23/2024 20:18	45702	LIND_T2	1	1	0	2	0.6	-1.4	0	0	0	0	0	0	0	0
4/23/2024 20:20	43202	MVIL_T2	26	67	41	0.17	0.22	0.05	0	0	0	0	0	0	0	0
4/23/2024 20:20	43201	MVIL_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
4/23/2024 20:23	26002	WDAM_T1	2	3	1	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
4/23/2024 20:23	26001	WDAM_T1	0	0	0	0	0	0	-0.84	-0.82	0	0	0	0	0	0
4/23/2024 20:24	43202	MVIL_T2	26	67	41	0.17	0.22	0.05	-0.75	-0.76	0	0	0	0	0	0
4/23/2024 20:24	12102	SALI_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
4/23/2024 20:25	53901	HALI_T2	1	1	0	0.2	0.2	0	0.08	0.06	0	0	0	0	0	0
4/23/2024 20:25	53902	HALI_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
4/23/2024 20:25	53903	HALI_T2	2	2	0	1.6	1.3	-0.3	0	0	0	0	0	0	0	0
4/23/2024 20:28	12102	SALI_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
4/23/2024 20:28	46206	DANV_T2	0	0	0	0	0	0	7.11	5.11	3	0	-3	3600	0	-3600
4/23/2024 20:30	46206	DANV_T2	0	0	0	0	0	0	2.37	1.7	1	0	-1	1200	0	-1200
4/23/2024 20:31	63804	HEMP_T1	1	1	0	6.1	5.4	-0.7	0	0	0	0	0	0	0	0
4/23/2024 20:31	46206	DANV_T2	0	0	0	0	0	0	2.37	1.7	1	0	-1	1200	0	-1200
4/23/2024 20:31	63803	HEMP_T1	0	0	0	0	0	0	0.64	0.67	0	0	0	0	0	0
4/23/2024 20:32	46206	DANV_T2	0	0	0	0	0	0	4.74	3.41	2	0	-2	2400	0	-2400
4/23/2024 20:33	40902	JESH_T1	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
4/23/2024 20:34	13807	SALI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 20:34	13801	SALI_T1	0	0	0	0	0	0	0.77	0.79	0	0	0	0	0	0
4/23/2024 20:35	57601	RUTH_T2	0	0	0	0	0	0	-0.74	-0.76	0	0	0	0	0	0
4/23/2024 20:36	57601	RUTH_T2	0	0	0	0	0	0	-0.74	-0.76	0	0	0	0	0	0
4/23/2024 20:37	56501	ROCK_T2	2	2	0	0.5	0.5	0	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 20:38	57602	RUTH_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
4/23/2024 20:38	66903	SHIL_T2	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
4/23/2024 20:39	57602	RUTH_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
4/23/2024 20:40	48302	ORWI_T2	2	2	0	1.7	1.8	0.1	-0.09	-0.08	0	0	0	0	0	0
4/23/2024 20:40	66903	SHIL_T2	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
4/23/2024 20:40	14603	SWHI_T1	0	0	0	0	0	0	-1.04	-1.1	1	1	0	600	600	0
4/23/2024 20:41	44301	BEAV_T2	0	0	0	0	0	0	-0.24	-0.4	1	1	0	600	600	0
4/23/2024 20:51	45902	AUBU_T1	0	12	12	0	0.13	0.13	-1.04	-1.05	1	1	0	600	600	0
4/23/2024 20:59	41502	FAIR_T2	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
4/23/2024 21:05	42001	MNVL_T2	0	17	17	0	0.15	0.15	0	0	0	0	0	0	0	0
4/23/2024 21:05	42002	MNVL_T2	1	1	0	2.7	2.5	-0.2	0.08	0.06	0	0	0	0	0	0
4/23/2024 21:15	62606	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/23/2024 21:15	62602	ENGL_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
4/23/2024 21:21	62606	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/23/2024 21:21	62605	ENGL_T1	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
4/23/2024 21:23	43103	SMIL_T2	21	0	-21	1.09	0.93	-0.16	0	0	0	0	0	0	0	0
4/23/2024 21:23	43302	WATS_T2	4	4	0	0.93	1.18	0.25	0	0	0	0	0	0	0	0
4/23/2024 21:23	43105	SMIL_T2	31	18	-13	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
4/23/2024 21:23	43102	SMIL_T2	8	8	0	1.08	0.99	-0.09	-0.94	-0.97	1	1	0	600	600	0
4/23/2024 21:23	43304	WATS_T2	0	0	0	0	0	0	0.51	0.48	0	0	0	0	0	0
4/23/2024 21:29	46802	HEPB_T1	1	1	0	1	0.9	-0.1	-0.33	-0.34	0	0	0	0	0	0
4/23/2024 21:38	15603	NSTR_T2	8	18	10	0.19	0.26	0.07	-0.63	-0.62	0	0	0	0	0	0
4/23/2024 21:38	15602	NSTR_T2	12	193	181	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:38	15601	NSTR_T2	81	131	50	0.2	0.23	0.03	0	0	0	0	0	0	0	0
4/23/2024 21:39	41202	KENM_T2	1	1	0	0.6	0.8	0.2	0.41	0.41	0	0	0	0	0	0
4/23/2024 21:41	13801	SALI_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:41	46504	LOHA_T1	8	2	-6	0.39	0.9	0.51	0	0	0	0	0	0	0	0
4/23/2024 21:41	46502	LOHA_T1	0	0	0	0	0	0	-1.44	-1.43	1	1	0	1200	1200	0
4/23/2024 21:41	17002	RIRO_T2	168	410	242	0.2	0.3	0.1	0.28	0.3	0	0	0	0	0	0
4/23/2024 21:41	46506	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:41	62607	ENGL_T1	0	0	0	0	0	0	-1.21	-0.88	1	0	-1	300	0	-300
4/23/2024 21:41	13805	SALI_T1	2	6	4	0.1	0.23	0.13	0	0	0	0	0	0	0	0
4/23/2024 21:41	13807	SALI_T1	3	34	31	0.13	0.13	0	0.13	0.13	0	0	0	0	0	0
4/23/2024 21:41	13804	SALI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:41	61302	EARL_T1	0	0	0	0	0	0	-0.09	-0.11	1	1	0	1200	1200	0
4/23/2024 21:41	44301	BEAV_T2	0	0	0	0	0	0	-0.21	0.25	1	1	0	600	600	0
4/23/2024 21:41	13802	SALI_T1	0	37	37	0	0.11	0.11	0	0	0	0	0	0	0	0
4/23/2024 21:42	46504	LOHA_T1	8	2	-6	0.39	0.9	0.51	0	0	0	0	0	0	0	0
4/23/2024 21:42	10602	BLGL_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
4/23/2024 21:42	67505	WEWI_T1	0	0	0	0	0	0	-0.38	-0.39	1	1	0	900	900	0
4/23/2024 21:42	42001	MNVL_T2	4	48	44	0.13	0.16	0.03	-0.07	-0.08	0	0	0	0	0	0
4/23/2024 21:42	61303	EARL_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
4/23/2024 21:42	14802	TREI_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
4/23/2024 21:42	42002	MNVL_T2	1	1	0	2.7	2.6	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:42	29402	BELT_T1	1	1	0	6.5	7.1	0.6	0	0	0	0	0	0	0	0
4/23/2024 21:42	46506	LOHA_T1	0	1	1	0	0.1	0.1	-0.52	-0.52	0	0	0	0	0	0
4/23/2024 21:42	13901	SEID_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
4/23/2024 21:43	45602	WOOL_T1	2	2	0	0.25	0.3	0.05	0.33	0.3	0	0	0	0	0	0
4/23/2024 21:44	11603	CEAL_T1	1	1	0	2.8	2.8	0	0	0	0	0	0	0	0	0
4/23/2024 21:44	45602	WOOL_T1	2	2	0	0.25	0.3	0.05	0.33	0.3	0	0	0	0	0	0
4/23/2024 21:44	13807	SALI_T1	3	34	31	0.13	0.13	0	0	0	0	0	0	0	0	0
4/23/2024 21:44	13804	SALI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:44	46504	LOHA_T1	8	2	-6	0.39	0.9	0.51	0	0	0	0	0	0	0	0
4/23/2024 21:44	11601	CEAL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:44	13303	ORVI_T1	0	0	0	0	0	0	-0.47	0.84	0	0	0	0	0	0
4/23/2024 21:44	13802	SALI_T1	0	37	37	0	0.11	0.11	0	0	0	0	0	0	0	0
4/23/2024 21:44	13801	SALI_T1	0	6	6	0	0.1	0.1	0.8	0.77	0	0	0	0	0	0
4/23/2024 21:44	11507	FREE_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
4/23/2024 21:44	13805	SALI_T1	2	6	4	0.1	0.23	0.13	0	0	0	0	0	0	0	0
4/23/2024 21:44	46506	LOHA_T1	0	1	1	0	0.1	0.1	-0.52	-0.52	0	0	0	0	0	0
4/23/2024 21:44	17401	FOHI_T1	0	0	0	0	0	0	-1.07	-1.07	0	0	0	0	0	0
4/23/2024 21:45	11601	CEAL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:45	15701	TANN_T1	201	137	-64	0.34	0.24	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:45	15704	TANN_T1	309	295	-14	0.48	0.44	-0.04	-1.4	-1.51	0	0	0	0	0	0
4/23/2024 21:45	65206	PRIN_T4	29	64	35	0.14	0.16	0.02	0	0	0	0	0	0	0	0
4/23/2024 21:45	65502	MOJO_T2	75	286	211	0.11	0.21	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:45	65207	PRIN_T4	15	19	4	0.15	0.17	0.02	0	0	1	1	0	1200	1200	0
4/23/2024 21:45	11603	CEAL_T1	1	1	0	2.8	2.9	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:45	65503	MOJO_T2	20	134	114	0.3	0.22	-0.08	-0.65	-0.68	0	0	0	0	0	0
4/23/2024 21:46	66504	SMAN_T2	0	0	0	0	0	0	-1.43	-1.45	0	0	0	0	0	0
4/23/2024 21:46	13502	MCMI_T1	34	17	-17	0.16	0.17	0.01	0	0	0	0	0	0	0	0
4/23/2024 21:46	13501	MCMI_T1	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
4/23/2024 21:46	64702	LITI_T2	0	0	0	0	0	0	0.77	0.79	0	0	0	0	0	0
4/23/2024 21:46	12701	MACU_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
4/23/2024 21:46	44301	BEAV_T2	0	0	0	0	0	0	-0.21	0.25	1	1	0	600	600	0
4/23/2024 21:46	47401	PENS_T1	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
4/23/2024 21:46	15001	BLMO_T1	4	4	0	0.45	0.83	0.38	0	0	0	0	0	0	0	0
4/23/2024 21:46	10805	CHHI_T2	1	1	0	7.5	7.1	-0.4	-0.87	-0.88	0	0	0	0	0	0
4/23/2024 21:46	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:46	66503	SMAN_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:46	66203	SISP_T2	0	0	0	0	0	0	-1.29	-1.31	1	1	0	1200	1200	0
4/23/2024 21:46	14203	EALL_T1	0	0	0	0	0	0	-0.44	-0.5	1	1	0	1200	1200	0
4/23/2024 21:47	28701	HAML_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/23/2024 21:47	60101	COCA_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
4/23/2024 21:47	13804	SALI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/23/2024 21:47	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:47	43301	WATS_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
4/23/2024 21:47	43302	WATS_T2	4	4	0	1.18	1.4	0.22	0	0	0	0	0	0	0	0
4/23/2024 21:47	13502	MCMI_T1	34	17	-17	0.16	0.17	0.01	0	0	0	0	0	0	0	0
4/23/2024 21:47	13801	SALI_T1	0	6	6	0	0.1	0.1	0.8	0.77	0	0	0	0	0	0
4/23/2024 21:47	46302	ROHR_T1	27	131	104	0.49	0.3	-0.19	0	0	0	0	0	0	0	0
4/23/2024 21:47	28704	HAML_T2	135	3	-132	0.18	0.5	0.32	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 21:47	62604	ENGL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:47	65901	SAKR_T2	1	1	0	9.7	9.6	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:47	14603	SWHI_T1	0	0	0	0	0	0	-1.11	-1.12	1	1	0	600	600	0
4/23/2024 21:47	62601	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:47	21204	ECAR_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:47	28702	HAML_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/23/2024 21:47	66503	SMAN_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:47	66504	SMAN_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
4/23/2024 21:47	20401	ASHF_T2	2	1	-1	0.2	0.1	-0.1	-0.43	-0.41	0	0	0	0	0	0
4/23/2024 21:47	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:47	13802	SALI_T1	5	37	32	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/23/2024 21:47	64901	MILL_T1	0	31	31	0	0.27	0.27	0	0	0	0	0	0	0	0
4/23/2024 21:47	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:47	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:47	45601	WOOL_T1	0	0	0	0	0	0	1	1	0	0	0	0	0	0
4/23/2024 21:47	13501	MCMI_T1	0	0	0	0	0	0	0.05	-0.01	0	0	0	0	0	0
4/23/2024 21:47	10801	CHHI_T1	0	0	0	0	0	0	-1.05	-1.07	1	1	0	900	900	0
4/23/2024 21:47	46504	LOHA_T1	2	64	62	0.9	0.28	-0.62	0	0	0	0	0	0	0	0
4/23/2024 21:47	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
4/23/2024 21:47	45602	WOOL_T1	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/23/2024 21:47	61506	EPET_T2	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
4/23/2024 21:47	62605	ENGL_T1	0	13	13	0	0.14	0.14	0	0	0	0	0	0	0	0
4/23/2024 21:47	64904	MILL_T1	0	6	6	0	0.2	0.2	0.46	0.41	0	0	0	0	0	0
4/23/2024 21:47	21206	ECAR_T2	1	1	0	7.8	7.5	-0.3	1.16	1.16	0	0	0	0	0	0
4/23/2024 21:47	13302	ORVI_T2	0	0	0	0	0	0	1.24	1.2	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/23/2024 21:47	56501	ROCK_T2	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:47	13805	SALI_T1	6	5	-1	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
4/23/2024 21:47	45901	AUBU_T1	0	0	0	0	0	0	1.67	1.7	0	0	0	0	0	0
4/23/2024 21:47	20403	ASHF_T2	34	43	9	0.76	0.99	0.23	0	0	0	0	0	0	0	0
4/23/2024 21:47	28703	HAML_T2	3	3	0	1.33	1.07	-0.26	0	0	0	0	0	0	0	0
4/23/2024 21:47	62607	ENGL_T1	0	93	93	0	0.13	0.13	-1.21	-0.88	1	0	-1	300	0	-300
4/23/2024 21:47	46301	ROHR_T1	162	285	123	0.26	0.46	0.2	0.15	0.12	0	0	0	0	0	0
4/23/2024 21:47	67401	WAKE_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:47	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:47	67702	WERN_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
4/23/2024 21:47	29402	BELT_T1	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
4/23/2024 21:47	46506	LOHA_T1	1	1	0	0.1	0.6	0.5	-0.52	-0.52	0	0	0	0	0	0
4/23/2024 21:47	13807	SALI_T1	13	33	20	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
4/23/2024 21:47	65903	SAKR_T2	0	0	0	0	0	0	-1.47	-1.52	3	3	0	2100	2100	0
4/23/2024 21:48	13606	RICH_T2	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
4/23/2024 21:48	13601	RICH_T2	0	0	0	0	0	0	-0.09	-0.13	1	1	0	600	600	0
4/23/2024 21:48	64202	KINZ_T1	7	23	16	0.14	0.35	0.21	0	0	0	0	0	0	0	0
4/23/2024 21:48	17903	BART_T1	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
4/23/2024 21:48	29402	BELT_T1	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
4/23/2024 21:48	60801	BUCK_T1	0	29	29	0	0.16	0.16	0	0	0	0	0	0	0	0
4/23/2024 21:48	64204	KINZ_T1	5	29	24	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/23/2024 21:48	53901	HALI_T2	1	2	1	0.7	1	0.3	-0.45	-0.44	0	0	0	0	0	0
4/23/2024 21:48	46301	ROHR_T1	162	285	123	0.26	0.46	0.2	0.15	0.12	0	0	0	0	0	0
4/23/2024 21:48	15001	BLMO_T1	4	4	0	0.45	0.83	0.38	0	0	0	0	0	0	0	0
4/23/2024 21:48	64702	LITI_T2	0	0	0	0	0	0	-0.77	-0.79	0	0	0	0	0	0
4/23/2024 21:48	64201	KINZ_T1	8	16	8	0.39	0.48	0.09	0.29	0.54	1	0	-1	300	0	-300
4/23/2024 21:48	63305	GREE_T1	3	16	13	0.1	0.31	0.21	-1.34	-1.37	0	0	0	0	0	0
4/23/2024 21:48	12807	MICK_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/23/2024 21:48	64203	KINZ_T1	0	25	25	0	0.13	0.13	0	0	0	0	0	0	0	0
4/23/2024 21:48	53902	HALI_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:48	63306	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:48	12803	MICK_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/23/2024 21:48	53903	HALI_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
4/23/2024 21:48	60803	BUCK_T1	0	4	4	0	0.13	0.13	-0.59	-0.59	1	1	0	600	600	0
4/23/2024 21:48	12801	MICK_T1	0	0	0	0	0	0	-0.34	-0.33	1	1	0	600	600	0
4/23/2024 21:48	63301	GREE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:48	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:48	46302	ROHR_T1	27	131	104	0.49	0.3	-0.19	0	0	0	0	0	0	0	0
4/23/2024 21:48	14204	EALL_T2	0	3	3	0	0.1	0.1	-0.83	-0.83	0	0	0	0	0	0
4/23/2024 21:48	63304	GREE_T1	0	25	25	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:49	24102	EHAZ_T1	6	6	0	0.83	0.2	-0.63	0.33	0.25	0	0	0	0	0	0
4/23/2024 21:49	12006	HATF_T1	0	1	1	0	0	0	1.17	1.09	0	0	0	0	0	0
4/23/2024 21:49	12505	MITR_T2	0	0	0	0	0	0	1.05	1.05	0	0	0	0	0	0
4/23/2024 21:49	53902	HALI_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:49	60102	COCA_T1	0	0	0	0	0	0	0.27	0.21	1	1	0	600	600	0
4/23/2024 21:49	53903	HALI_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
4/23/2024 21:49	64202	KINZ_T1	7	23	16	0.14	0.35	0.21	0	0	0	0	0	0	0	0
4/23/2024 21:49	44502	HAMI_T2	1	1	0	3.1	3.5	0.4	-1.02	-1.03	0	0	0	0	0	0
4/23/2024 21:49	65901	SAKR_T2	1	1	0	9.7	9.6	-0.1	-1.22	-1.26	1	1	0	900	900	0
4/23/2024 21:49	66504	SMAN_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
4/23/2024 21:49	43301	WATS_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
4/23/2024 21:49	57401	SPAN_T1	2	5	3	0.7	0.52	-0.18	-3.3	-4.12	3	3	0	1800	1800	0
4/23/2024 21:49	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 21:49	66502	SMAN_T2	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
4/23/2024 21:49	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:49	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:49	67605	WARW_T1	32	30	-2	0.63	0.57	-0.06	-0.99	-1.04	0	0	0	0	0	0
4/23/2024 21:49	57403	SPAN_T1	29	145	116	0.27	0.31	0.04	0	0	0	0	0	0	0	0
4/23/2024 21:49	10901	COOP_T2	0	0	0	0	0	0	0.75	0.7	0	0	0	0	0	0
4/23/2024 21:49	25603	ARRO_T1	33	51	18	0.22	0.35	0.13	-0.21	-0.19	0	0	0	0	0	0
4/23/2024 21:49	16401	MOPO_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
4/23/2024 21:49	67702	WERN_T2	0	0	0	0	0	0	-0.26	-0.22	0	0	0	0	0	0
4/23/2024 21:49	13701	SCHN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:49	10903	COOP_T2	50	102	52	0.17	0.24	0.07	0	0	0	0	0	0	0	0
4/23/2024 21:49	54502	ENOL_T2	9	12	3	0.18	0.18	0	0	0	0	0	0	0	0	0
4/23/2024 21:49	66503	SMAN_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:49	17401	FOHI_T1	0	0	0	0	0	0	-1.07	-1.07	0	0	0	0	0	0
4/23/2024 21:49	45702	LIND_T2	1	1	0	1.3	1.4	0.1	-0.6	-0.62	0	0	0	0	0	0
4/23/2024 21:49	43302	WATS_T2	4	4	0	1.18	1.4	0.22	0	0	0	0	0	0	0	0
4/23/2024 21:49	12502	MITR_T2	1	1	0	6.7	6	-0.7	0	0	0	0	0	0	0	0
4/23/2024 21:49	64204	KINZ_T1	5	29	24	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/23/2024 21:49	60101	COCA_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
4/23/2024 21:49	64201	KINZ_T1	8	16	8	0.39	0.48	0.09	0.29	0.54	1	0	-1	300	0	-300
4/23/2024 21:49	54501	ENOL_T2	4	4	0	0.2	0.28	0.08	0.05	0.07	0	0	0	0	0	0
4/23/2024 21:49	48901	FOSP_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
4/23/2024 21:49	64203	KINZ_T1	0	25	25	0	0.13	0.13	0	0	0	0	0	0	0	0
4/23/2024 21:49	13704	SCHN_T2	0	4	4	0	0.18	0.18	-0.43	-0.43	0	0	0	0	0	0
4/23/2024 21:49	53901	HALI_T2	1	2	1	0.7	1	0.3	-0.45	-0.44	0	0	0	0	0	0
4/23/2024 21:49	24105	EHAZ_T1	4	4	0	6.08	5.68	-0.4	0	0	0	0	0	0	0	0
4/23/2024 21:50	64101	REFR_T1	0	7	7	0	0.1	0.1	-1.05	-1.08	0	0	0	0	0	0
4/23/2024 21:50	13704	SCHN_T2	0	4	4	0	0.18	0.18	-0.43	-0.43	0	0	0	0	0	0
4/23/2024 21:50	22003	BOHE_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:50	13805	SALI_T1	6	5	-1	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
4/23/2024 21:50	25404	LAHA_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:50	65206	PRIN_T4	29	64	35	0.14	0.16	0.02	0	0	0	0	0	0	0	0
4/23/2024 21:50	56501	ROCK_T2	2	2	0	0.5	0.7	0.2	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 21:50	62601	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:50	14603	SWHI_T1	0	0	0	0	0	0	-1.11	-1.12	1	1	0	600	600	0
4/23/2024 21:50	50102	HARR_T3	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/23/2024 21:50	50103	HARR_T3	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:50	64701	LITI_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
4/23/2024 21:50	54201	PENN_T1	83	79	-4	0.35	0.38	0.03	0	0	0	0	0	0	0	0
4/23/2024 21:50	25402	LAHA_T2	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
4/23/2024 21:50	46302	ROHR_T1	27	131	104	0.49	0.3	-0.19	0	0	0	0	0	0	0	0
4/23/2024 21:50	67502	WEWI_T2	37	279	242	0.14	0.28	0.14	-0.6	-0.55	0	0	0	0	0	0
4/23/2024 21:50	48302	ORWI_T2	2	2	0	1.8	1.8	0	0	0	0	0	0	0	0	0
4/23/2024 21:50	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:50	13804	SALI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/23/2024 21:50	44504	HAMI_T2	0	0	0	0	0	0	-1.44	-1.39	0	0	0	0	0	0
4/23/2024 21:50	62607	ENGL_T1	0	93	93	0	0.13	0.13	-2.42	-1.76	2	0	-2	600	0	-600
4/23/2024 21:50	54203	PENN_T1	191	214	23	0.31	0.32	0.01	-0.04	-0.02	0	0	0	0	0	0
4/23/2024 21:50	64901	MILL_T1	0	31	31	0	0.27	0.27	0	0	0	0	0	0	0	0
4/23/2024 21:50	58003	WCAR_T1	106	141	35	0.43	0.36	-0.07	0.56	0.57	0	0	0	0	0	0
4/23/2024 21:50	48901	FOSP_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
4/23/2024 21:50	50105	HARR_T3	6	6	0	5.83	5.82	-0.01	0	0	0	0	0	0	0	0
4/23/2024 21:50	54205	PENN_T1	54	126	72	0.1	0.12	0.02	0	0	0	0	0	0	0	0
4/23/2024 21:50	59202	THOM_T1	271	316	45	0.34	0.39	0.05	0	0	0	0	0	0	0	0
4/23/2024 21:50	45902	AUBU_T1	0	0	0	0	0	0	-1.05	-1.22	0	0	0	0	0	0
4/23/2024 21:50	62604	ENGL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:50	64904	MILL_T1	0	6	6	0	0.2	0.2	0.46	0.41	0	0	0	0	0	0
4/23/2024 21:50	65207	PRIN_T4	15	19	4	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/23/2024 21:50	64501	LAVI_T1	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
4/23/2024 21:50	24501	GOUL_T2	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
4/23/2024 21:50	12601	MACA_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
4/23/2024 21:50	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:50	51003	NHAR_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:50	46301	ROHR_T1	162	285	123	0.26	0.46	0.2	0.15	0.12	0	0	0	0	0	0
4/23/2024 21:50	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 21:50	51602	DUKE_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
4/23/2024 21:50	57006	WHHI_T2	7	80	73	0.1	0.21	0.11	0	0	0	0	0	0	0	0
4/23/2024 21:50	58001	WCAR_T1	35	42	7	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
4/23/2024 21:50	44502	HAMI_T2	1	1	0	3.1	3.5	0.4	0	0	0	0	0	0	0	0
4/23/2024 21:50	51004	NHAR_T1	13	13	0	1.15	1.03	-0.12	-0.47	-0.42	0	0	0	0	0	0
4/23/2024 21:50	62605	ENGL_T1	0	13	13	0	0.14	0.14	0	0	0	0	0	0	0	0
4/23/2024 21:50	50201	HARR_T3	1	1	0	0.3	0.4	0.1	0.24	0.2	0	0	0	0	0	0
4/23/2024 21:50	50202	HARR_T3	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:50	13701	SCHN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:50	51002	NHAR_T1	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
4/23/2024 21:50	51304	WIND_T2	0	0	0	0	0	0	-0.24	-0.28	0	0	0	0	0	0
4/23/2024 21:50	57002	WHHI_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
4/23/2024 21:50	57003	WHHI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/23/2024 21:50	13802	SALI_T1	5	37	32	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/23/2024 21:50	13801	SALI_T1	0	6	6	0	0.1	0.1	0.8	0.77	0	0	0	0	0	0
4/23/2024 21:50	14404	SSLA_T1	1	1	0	6.1	6.3	0.2	-0.03	-0.04	0	0	0	0	0	0
4/23/2024 21:50	67603	WARW_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
4/23/2024 21:50	60101	COCA_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
4/23/2024 21:50	13807	SALI_T1	13	33	20	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
4/23/2024 21:50	59201	THOM_T1	18	20	2	0.33	0.4	0.07	0	0	0	0	0	0	0	0
4/23/2024 21:50	67605	WARW_T1	32	30	-2	0.63	0.57	-0.06	-0.99	-1.04	0	0	0	0	0	0
4/23/2024 21:51	67501	WEWI_T1	0	65	65	0	0.22	0.22	-0.76	-0.73	0	0	0	0	0	0
4/23/2024 21:51	43105	SMIL_T2	17	19	2	0.19	0.2	0.01	0	0	0	0	0	0	0	0
4/23/2024 21:51	60501	NMAN_T2	3	18	15	4.93	0.93	-4	0	0	0	0	0	0	0	0
4/23/2024 21:51	66503	SMAN_T2	0	5	5	0	0.1	0.1	0.3	0.29	0	0	0	0	0	0
4/23/2024 21:51	67605	WARW_T1	32	30	-2	0.63	0.57	-0.06	-1.98	-2.08	0	0	0	0	0	0
4/23/2024 21:51	26401	INOR_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
4/23/2024 21:51	46803	HEPB_T2	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
4/23/2024 21:51	51107	CARL_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:51	43104	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:51	51402	LYKE_T1	1	178	177	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/23/2024 21:51	57003	WHHI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/23/2024 21:51	62607	ENGL_T1	0	93	93	0	0.13	0.13	0	0	0	0	0	0	0	0
4/23/2024 21:51	26402	INOR_T1	0	11	11	0	0.35	0.35	0	0	0	0	0	0	0	0
4/23/2024 21:51	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:51	62604	ENGL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:51	51103	CARL_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:51	64204	KINZ_T1	5	29	24	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/23/2024 21:51	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:51	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 21:51	62601	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:51	62605	ENGL_T1	0	13	13	0	0.14	0.14	-0.86	-0.85	0	0	0	0	0	0
4/23/2024 21:51	15703	TANN_T2	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:51	50502	MECH_T1	1	1	0	2.5	2.9	0.4	0	0	0	0	0	0	0	0
4/23/2024 21:51	51101	CARL_T1	12	0	-12	0.17	0	-0.17	-3.08	-3.17	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/23/2024 21:51	15001	BLMO_T1	4	4	0	0.45	0.83	0.38	0	0	0	0	0	0	0	0
4/23/2024 21:51	66703	STRA_T1	4	244	240	0.25	0.42	0.17	-0.45	-0.45	0	0	0	0	0	0
4/23/2024 21:51	45702	LIND_T2	1	1	0	1.3	1.4	0.1	-0.6	-0.62	0	0	0	0	0	0
4/23/2024 21:51	65503	MOJO_T2	20	134	114	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
4/23/2024 21:51	43304	WATS_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
4/23/2024 21:51	12001	HATF_T1	0	0	0	0	0	0	1.12	1.12	1	1	0	600	600	0
4/23/2024 21:51	46801	HEPB_T2	2	2	0	0.65	0.65	0	0.51	0.49	0	0	0	0	0	0
4/23/2024 21:51	15702	TANN_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
4/23/2024 21:51	51108	CARL_T1	21	0	-21	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:51	43103	SMIL_T2	21	22	1	0.91	1.01	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:51	54203	PENN_T1	191	214	23	0.31	0.32	0.01	0	0	0	0	0	0	0	0
4/23/2024 21:51	50501	MECH_T1	4	4	0	1.08	1.63	0.55	0	0	0	0	0	0	0	0
4/23/2024 21:51	41002	LAUR_T2	1	1	0	2.7	2.8	0.1	-0.01	-0.02	0	0	0	0	0	0
4/23/2024 21:51	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:51	23001	SAJO_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
4/23/2024 21:51	57006	WHHI_T2	7	80	73	0.1	0.21	0.11	0.76	0.77	0	0	0	0	0	0
4/23/2024 21:51	67703	WERN_T2	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
4/23/2024 21:51	50506	MECH_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
4/23/2024 21:51	41802	GOCI_T2	32	23	-9	0.63	0.49	-0.14	0	0	0	0	0	0	0	0
4/23/2024 21:51	65502	MOJO_T2	75	286	211	0.11	0.21	0.1	-1.11	-1.14	0	0	0	0	0	0
4/23/2024 21:51	64201	KINZ_T1	8	16	8	0.39	0.48	0.09	0.29	0.54	1	0	-1	300	0	-300
4/23/2024 21:51	21901	HUMB_T1	0	0	0	0	0	0	-1	-0.97	0	0	0	0	0	0
4/23/2024 21:51	54201	PENN_T1	83	79	-4	0.35	0.38	0.03	0.22	0.25	0	0	0	0	0	0
4/23/2024 21:51	16504	STRO_T1	62	25	-37	0.26	0.22	-0.04	0.07	0.05	1	1	0	1200	1200	0
4/23/2024 21:51	50504	MECH_T1	0	24	24	0	0.13	0.13	0	0	0	0	0	0	0	0
4/23/2024 21:51	64203	KINZ_T1	0	25	25	0	0.13	0.13	0	0	0	0	0	0	0	0
4/23/2024 21:51	41801	GOCI_T2	255	237	-18	0.53	0.45	-0.08	0	0	0	0	0	0	0	0
4/23/2024 21:51	43102	SMIL_T2	8	9	1	0.65	0.5	-0.15	-0.37	-0.37	0	0	0	0	0	0
4/23/2024 21:51	51102	CARL_T1	130	29	-101	0.35	0.14	-0.21	0	0	0	0	-1	0	0	0
4/23/2024 21:51	48901	FOSP_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
4/23/2024 21:51	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:51	12006	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:51	43302	WATS_T2	4	4	0	1.18	1.4	0.22	0	0	0	0	0	0	0	0
4/23/2024 21:51	64202	KINZ_T1	7	23	16	0.14	0.35	0.21	0	0	0	0	0	0	0	0
4/23/2024 21:51	66502	SMAN_T2	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
4/23/2024 21:51	51401	LYKE_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
4/23/2024 21:51	54205	PENN_T1	54	126	72	0.1	0.12	0.02	0	0	0	0	0	0	0	0
4/23/2024 21:51	43101	SMIL_T2	0	0	0	0	0	0	-0.89	-0.89	0	0	0	0	0	0
4/23/2024 21:51	60502	NMAN_T2	0	0	0	0	0	0	-0.58	-0.62	0	0	0	0	0	0
4/23/2024 21:52	60803	BUCK_T1	0	4	4	0	0.13	0.13	-0.59	-0.59	1	1	0	600	600	0
4/23/2024 21:52	54203	PENN_T1	191	214	23	0.31	0.32	0.01	-0.04	-0.02	0	0	0	0	0	0
4/23/2024 21:52	12006	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:52	66503	SMAN_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:52	50202	HARR_T3	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:52	50506	MECH_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
4/23/2024 21:52	67605	WARW_T1	32	30	-2	0.63	0.57	-0.06	-0.99	-1.04	0	0	0	0	0	0
4/23/2024 21:52	12001	HATF_T1	0	0	0	0	0	0	1.12	1.12	1	1	0	600	600	0
4/23/2024 21:52	24901	WHHA_T1	51	209	158	0.15	0.19	0.04	0	0	0	0	0	0	0	0
4/23/2024 21:52	46506	LOHA_T1	1	1	0	0.1	0.6	0.5	-0.52	-0.52	0	0	0	0	0	0
4/23/2024 21:52	62601	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:52	24702	FLND_T2	0	0	0	0	0	0	0.97	1.31	0	0	0	0	0	0
4/23/2024 21:52	60501	NMAN_T2	3	18	15	4.93	0.93	-4	0	0	0	0	0	0	0	0
4/23/2024 21:52	66505	SMAN_T2	0	1	1	0	0.1	0.1	-0.12	-0.14	1	1	0	900	900	0
4/23/2024 21:52	44201	POIN_T1	73	457	384	0.19	0.3	0.11	-2.5	-2.56	2	2	0	2100	2100	0
4/23/2024 21:52	47401	PENS_T1	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
4/23/2024 21:52	50502	MECH_T1	1	1	0	2.5	2.9	0.4	0	0	0	0	0	0	0	0
4/23/2024 21:52	58003	WCAR_T1	106	141	35	0.43	0.36	-0.07	0.56	0.57	0	0	0	0	0	0
4/23/2024 21:52	65502	MOJO_T2	75	286	211	0.11	0.21	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:52	61703	ELIZ_T1	0	0	0	0	0	0	-2.58	-2.63	2	2	0	2100	2100	0
4/23/2024 21:52	50504	MECH_T1	0	24	24	0	0.13	0.13	0	0	0	0	0	0	0	0
4/23/2024 21:52	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
4/23/2024 21:52	51603	DUKE_T1	1	1	0	0.1	0.2	0.1	-0.51	-0.52	0	0	0	0	0	0
4/23/2024 21:52	14404	SSLA_T1	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:52	64202	KINZ_T1	7	23	16	0.14	0.35	0.21	0	0	0	0	0	0	0	0
4/23/2024 21:52	40802	EXCH_T2	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
4/23/2024 21:52	54501	ENOL_T2	4	4	0	0.2	0.28	0.08	0	0	0	0	0	0	0	0
4/23/2024 21:52	46504	LOHA_T1	2	64	62	0.9	0.28	-0.62	0	0	0	0	0	0	0	0
4/23/2024 21:52	62607	ENGL_T1	0	93	93	0	0.13	0.13	-1.21	-0.88	1	0	-1	300	0	-300
4/23/2024 21:52	50501	MECH_T1	4	4	0	1.08	1.63	0.55	0	0	0	0	0	0	0	0
4/23/2024 21:52	60801	BUCK_T1	0	29	29	0	0.16	0.16	-0.25	-0.25	0	0	0	0	0	0
4/23/2024 21:52	64201	KINZ_T1	8	16	8	0.39	0.48	0.09	0.29	0.54	1	0	-1	300	0	-300
4/23/2024 21:52	65901	SAKR_T2	1	1	0	9.7	9.6	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:52	50105	HARR_T3	6	6	0	5.83	5.82	-0.01	0	0	0	0	0	0	0	0
4/23/2024 21:52	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:52	43304	WATS_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
4/23/2024 21:52	54502	ENOL_T2	9	12	3	0.18	0.18	0	0	0	0	0	0	0	0	0
4/23/2024 21:52	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:52	15702	TANN_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
4/23/2024 21:52	49803	UNIV_T1	0	0	0	0	0	0	-1.24	-1.25	0	0	0	0	0	0
4/23/2024 21:52	65503	MOJO_T2	20	134	114	0.3	0.22	-0.08	-0.65	-0.68	0	0	0	0	0	0
4/23/2024 21:52	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:52	54201	PENN_T1	83	79	-4	0.35	0.38	0.03	0	0	0	0	0	0	0	0
4/23/2024 21:52	15703	TANN_T2	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:52	57205	ROSS_T1	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
4/23/2024 21:52	40302	TAMA_T3	62	66	4	0.76	0.87	0.11	0.3	0.27	0	0	0	0	0	0
4/23/2024 21:52	67203	TEHI_T1	0	0	0	0	0	0	2.05	2.04	1	1	0	600	600	0
4/23/2024 21:52	15001	BLMO_T1	4	4	0	0.45	0.83	0.38	0	0	0	0	0	0	0	0
4/23/2024 21:52	60802	BUCK_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
4/23/2024 21:52	57006	WHHI_T2	7	80	73	0.1	0.21	0.11	0.76	0.77	0	0	0	0	0	0
4/23/2024 21:52	60502	NMAN_T2	0	0	0	0	0	0	-0.58	-0.62	0	0	0	0	0	0
4/23/2024 21:52	50102	HARR_T3	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/23/2024 21:52	42204	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:52	57003	WHHI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/23/2024 21:52	64501	LAVI_T1	0	0	0	0	0	0	-0.5	-0.48	0	0	0	0	0	0
4/23/2024 21:52	65903	SAKR_T2	0	0	0	0	0	0	-1.47	-1.52	3	3	0	2100	2100	0
4/23/2024 21:52	41801	GOCI_T2	255	237	-18	0.53	0.45	-0.08	0	0	0	0	0	0	0	0
4/23/2024 21:52	43302	WATS_T2	4	4	0	1.18	1.4	0.22	0	0	0	0	0	0	0	0
4/23/2024 21:52	14403	SSLA_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
4/23/2024 21:52	66502	SMAN_T2	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
4/23/2024 21:52	64203	KINZ_T1	0	25	25	0	0.13	0.13	0	0	0	0	0	0	0	0
4/23/2024 21:52	56501	ROCK_T2	2	2	0	0.5	0.7	0.2	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 21:52	62605	ENGL_T1	0	13	13	0	0.14	0.14	-0.86	-0.85	0	0	0	0	0	0
4/23/2024 21:52	10801	CHHI_T1	0	0	0	0	0	0	-1.05	-1.07	1	1	0	900	900	0
4/23/2024 21:52	54205	PENN_T1	54	126	72	0.1	0.12	0.02	0	0	0	0	0	0	0	0
4/23/2024 21:52	13103	NHAM_T2	0	0	0	0	0	0	-1.82	-1.81	1	1	0	600	600	0
4/23/2024 21:52	41802	GOCI_T2	32	23	-9	0.63	0.49	-0.14	0	0	0	0	0	0	0	0
4/23/2024 21:52	67401	WAKE_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:52	40303	TAMA_T3	16	17	1	0.42	0.51	0.09	2.25	2.16	0	0	0	0	0	0
4/23/2024 21:52	61502	EPET_T1	42	86	44	0.19	0.26	0.07	-1.05	-1.12	0	0	0	0	0	0
4/23/2024 21:52	58001	WCAR_T1	35	42	7	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
4/23/2024 21:52	40801	EXCH_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:52	51402	LYKE_T1	1	178	177	0.1	0.18	0.08	-1.56	-1.54	1	1	0	600	600	0
4/23/2024 21:52	14603	SWHI_T1	0	0	0	0	0	0	-1.11	-1.12	1	1	0	600	600	0
4/23/2024 21:52	61701	ELIZ_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
4/23/2024 21:52	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:52	54504	ENOL_T2	0	0	0	0	0	0	-1.07	-1.06	1	1	0	600	600	0
4/23/2024 21:52	45902	AUBU_T1	0	0	0	0	0	0	-1.58	-1.83	0	0	0	0	0	0
4/23/2024 21:52	48302	ORWI_T2	2	2	0	1.8	1.8	0	-0.26	-0.28	0	0	0	0	0	0
4/23/2024 21:52	62604	ENGL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:52	50103	HARR_T3	2	2	0	0.85	0.95	0.1	-2.12	-2.07	2	2	0	2400	2400	0
4/23/2024 21:52	47104	MARL_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
4/23/2024 21:52	24902	WHHA_T1	35	1	-34	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
4/23/2024 21:52	61303	EARL_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
4/23/2024 21:52	49804	UNIV_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/23/2024 21:52	50201	HARR_T3	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:52	46002	BERW_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
4/23/2024 21:52	46002	BERW_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
4/23/2024 21:52	46002	BERW_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
4/23/2024 21:52	46002	BERW_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
4/23/2024 21:52	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:52	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
4/23/2024 21:52	64204	KINZ_T1	5	29	24	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/23/2024 21:53	57203	ROSS_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
4/23/2024 21:53	59301	MCAL_T1	27	41	14	0.19	0.21	0.02	-1.24	-1.26	0	0	0	0	0	0
4/23/2024 21:53	41901	REED_T1	8	1	-7	0.24	0.1	-0.14	0	0	0	0	0	0	0	0
4/23/2024 21:53	67601	WARW_T1	0	0	0	0	0	0	0.52	0.55	0	0	0	0	0	0
4/23/2024 21:53	42902	MIDD_T2	0	0	0	0	0	0	-2.52	-2.51	2	2	0	1200	1200	0
4/23/2024 21:53	64101	REFR_T1	0	7	7	0	0.1	0.1	-1.08	-1.09	0	0	0	0	0	0
4/23/2024 21:53	57304	MOAL_T2	44	70	26	0.3	0.91	0.61	-0.54	-0.59	0	0	0	0	0	0
4/23/2024 21:53	54501	ENOL_T2	4	4	0	0.2	0.28	0.08	0.07	0.07	0	0	0	0	0	0
4/23/2024 21:53	47002	HUGH_T2	62	129	67	0.15	0.18	0.03	0	0	0	0	0	0	0	0
4/23/2024 21:53	14404	SSLA_T1	1	1	0	6.1	6.3	0.2	-0.03	-0.04	0	0	0	0	0	0
4/23/2024 21:53	63301	GREE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:53	11805	FRAN_T1	0	0	0	0	0	0	-1.47	-1.53	1	1	0	1200	1200	0
4/23/2024 21:53	47401	PENS_T1	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
4/23/2024 21:53	47001	HUGH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:53	46302	ROHR_T1	27	131	104	0.49	0.3	-0.19	0.12	0.09	0	0	0	0	0	0
4/23/2024 21:53	52501	PROG_T1	0	0	0	0	0	0	0.59	0.62	2	2	0	600	600	0
4/23/2024 21:53	51102	CARL_T1	130	29	-101	0.35	0.14	-0.21	0	0	0	0	0	0	0	0
4/23/2024 21:53	67501	WEWI_T1	0	65	65	0	0.22	0.22	-0.73	-0.77	0	0	0	0	0	0
4/23/2024 21:53	51402	LYKE_T1	1	178	177	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/23/2024 21:53	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:53	63306	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:53	57301	MOAL_T2	2	9	7	0.1	0.24	0.14	0	0	0	0	0	0	0	0
4/23/2024 21:53	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.65	0	0	0	0	0	0
4/23/2024 21:53	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:53	41902	REED_T1	0	0	0	0	0	0	1.92	1.86	0	0	0	0	0	0
4/23/2024 21:53	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:53	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:53	54502	ENOL_T2	9	12	3	0.18	0.18	0	0	0	0	0	0	0	0	0
4/23/2024 21:53	51103	CARL_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:53	46001	BERW_T1	0	0	0	0	0	0	0.98	0.96	0	0	0	0	0	0
4/23/2024 21:53	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/23/2024 21:53	53902	HALI_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:53	66901	SHIL_T2	0	1	1	0	0.7	0.7	-0.5	-0.53	0	0	0	0	0	0
4/23/2024 21:53	59101	WALK_T2	0	0	0	0	0	0	1.05	1.1	0	0	0	0	0	0
4/23/2024 21:53	67605	WARW_T1	32	30	-2	0.63	0.57	-0.06	0	0	0	0	0	0	0	0
4/23/2024 21:53	59302	MCAL_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:53	51401	LYKE_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
4/23/2024 21:53	57303	MOAL_T2	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:53	66502	SMAN_T2	0	0	0	0	0	0	-0.21	-0.12	0	0	0	0	0	0
4/23/2024 21:53	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:53	51107	CARL_T1	4	0	-4	0.1	0	-0.1	-0.36	-0.31	0	0	0	0	0	0
4/23/2024 21:53	66503	SMAN_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:53	46506	LOHA_T1	1	1	0	0.1	0.6	0.5	-0.52	-0.52	0	0	0	0	0	0
4/23/2024 21:53	64202	KINZ_T1	7	23	16	0.14	0.35	0.21	0.56	0.56	0	0	0	0	0	0
4/23/2024 21:53	48902	FOSP_T2	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
4/23/2024 21:53	16102	BING_T2	11	13	2	0.2	0.16	-0.04	-1.05	-1	1	1	0	1200	1200	0
4/23/2024 21:53	42401	GIMA_T1	94	116	22	0.28	0.31	0.03	0	0	0	0	0	0	0	0
4/23/2024 21:53	51101	CARL_T1	12	0	-12	0.17	0	-0.17	0	0	0	0	0	0	0	0
4/23/2024 21:53	51108	CARL_T1	21	0	-21	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:53	63304	GREE_T1	0	25	25	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:53	40703	FFLD_T1	4	4	0	0.38	0.63	0.25	0	0	0	0	0	0	0	0
4/23/2024 21:53	46504	LOHA_T1	2	64	62	0.9	0.28	-0.62	0	0	0	0	0	0	0	0
4/23/2024 21:53	64204	KINZ_T1	5	29	24	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/23/2024 21:53	40702	FFLD_T1	88	171	83	0.22	0.4	0.18	-0.64	-0.75	1	1	0	1200	1200	0
4/23/2024 21:53	46301	ROHR_T1	162	285	123	0.26	0.46	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:53	61701	ELIZ_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
4/23/2024 21:53	51604	DUKE_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
4/23/2024 21:53	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:53	63305	GREE_T1	3	16	13	0.1	0.31	0.21	-1.37	-1.29	0	0	0	0	0	0
4/23/2024 21:53	51603	DUKE_T1	1	1	0	0.1	0.2	0.1	-0.52	-0.53	0	0	0	0	0	0
4/23/2024 21:53	64203	KINZ_T1	0	25	25	0	0.13	0.13	0.23	0.13	0	0	0	0	0	0
4/23/2024 21:53	53901	HALI_T2	1	2	1	0.7	1	0.3	-0.44	-0.47	0	0	0	0	0	0
4/23/2024 21:53	42903	MIDD_T2	2	2	0	0.45	0.9	0.45	-1.36	-1.38	1	1	0	1200	1200	0
4/23/2024 21:53	64201	KINZ_T1	8	16	8	0.39	0.48	0.09	0	0	0	0	0	0	0	0
4/23/2024 21:53	61703	ELIZ_T1	0	0	0	0	0	0	-2.63	-2.65	2	2	0	2100	2100	0
4/23/2024 21:53	40701	FFLD_T1	53	95	42	0.42	0.52	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:53	53903	HALI_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
4/23/2024 21:54	51101	CARL_T1	12	0	-12	0.17	0	-0.17	0	0	0	0	0	0	0	0
4/23/2024 21:54	52501	PROG_T1	0	0	0	0	0	0	0.29	0.31	1	1	0	300	300	0
4/23/2024 21:54	51107	CARL_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:54	60903	DONG_T2	0	0	0	0	0	0	0.6	0.52	1	1	0	600	600	0
4/23/2024 21:54	57003	WHIH_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/23/2024 21:54	65901	SAKR_T2	1	1	0	9.7	9.6	-0.1	-1.26	-1.25	1	1	0	900	900	0
4/23/2024 21:54	29402	BELT_T1	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
4/23/2024 21:54	20403	ASHF_T2	34	43	9	0.76	0.99	0.23	0.08	0.04	0	0	0	0	0	0
4/23/2024 21:54	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.65	0	0	0	0	0	0
4/23/2024 21:54	47401	PENS_T1	0	0	0	0	0	0	0.79	0.72	0	0	0	0	0	0
4/23/2024 21:54	47001	HUGH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:54	50202	HARR_T3	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:54	50502	MECH_T1	1	1	0	2.5	2.9	0.4	0	0	0	0	0	0	0	0
4/23/2024 21:54	46004	BERW_T2	0	0	0	0	0	0	-0.42	-0.45	0	0	0	0	0	0
4/23/2024 21:54	43301	WATS_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
4/23/2024 21:54	61703	ELIZ_T1	0	0	0	0	0	0	-2.63	-2.65	2	2	0	2100	2100	0
4/23/2024 21:54	54206	PENN_T2	122	236	114	0.27	0.24	-0.03	-0.09	-0.09	0	0	0	0	0	0
4/23/2024 21:54	50501	MECH_T1	4	4	0	1.08	1.63	0.55	0	0	0	0	0	0	0	0
4/23/2024 21:54	64501	LAVI_T1	0	0	0	0	0	0	-0.48	-0.55	0	0	0	0	0	0
4/23/2024 21:54	20401	ASHF_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:54	50201	HARR_T3	1	0	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:54	53901	HALI_T2	1	2	1	0.7	1	0.3	-0.44	-0.47	0	0	0	0	0	0
4/23/2024 21:54	54202	PENN_T2	393	427	34	0.29	0.37	0.08	0	0	0	0	0	0	0	0
4/23/2024 21:54	57403	SPAN_T1	29	145	116	0.27	0.31	0.04	0	0	0	0	0	0	0	0
4/23/2024 21:54	57006	WHIH_T2	7	80	73	0.1	0.21	0.11	0	0	0	0	0	0	0	0
4/23/2024 21:54	57702	PAXT_T1	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
4/23/2024 21:54	44601	SALE_T2	1	1	0	0.5	0.9	0.4	-0.13	-0.16	0	0	0	0	0	0
4/23/2024 21:54	51108	CARL_T1	21	0	-21	0.1	0	-0.1	-0.61	-0.63	0	0	0	0	0	0
4/23/2024 21:54	40601	PIGR_T1	188	63	-125	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
4/23/2024 21:54	51103	CARL_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:54	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:54	57001	WHIH_T2	0	0	0	0	0	0	-0.42	-0.44	1	1	0	900	900	0
4/23/2024 21:54	57203	ROSS_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
4/23/2024 21:54	47103	MARL_T2	0	2	2	0	0.1	0.1	-0.68	-0.72	0	0	0	0	0	0
4/23/2024 21:54	51603	DUKE_T1	1	1	0	0.1	0.2	0.1	-0.52	-0.53	0	0	0	0	0	0
4/23/2024 21:54	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:54	66902	SHIL_T2	0	0	0	0	0	0	-0.87	-0.9	0	0	0	0	0	0
4/23/2024 21:54	54204	PENN_T2	2	3	1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:54	56501	ROCK_T2	2	2	0	0.5	0.7	0.2	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 21:54	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 21:54	47102	MARL_T2	1	4	3	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
4/23/2024 21:54	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:54	50506	MECH_T1	0	0	0	0	0	0	0.18	0.09	0	0	0	0	0	0
4/23/2024 21:54	50102	HARR_T3	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/23/2024 21:54	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	1	1	0	600	600	0
4/23/2024 21:54	67702	WERN_T2	0	0	0	0	0	0	-0.22	-0.33	0	0	0	0	0	0
4/23/2024 21:54	64305	LINC_T1	0	0	0	0	0	0	-0.58	-0.74	0	0	0	0	0	0
4/23/2024 21:54	45901	AUBU_T1	0	0	0	0	0	0	1.7	1.69	0	0	0	0	0	0
4/23/2024 21:54	54601	SUMM_T2	12	12	0	0.54	0.65	0.11	-4.03	-4.01	4	4	0	4200	4200	0
4/23/2024 21:54	43302	WATS_T2	4	4	0	1.18	1.4	0.22	0	0	0	0	0	0	0	0
4/23/2024 21:54	51402	LYKE_T1	1	178	177	0.1	0.18	0.08	-1.54	-1.57	1	1	0	600	600	0
4/23/2024 21:54	51102	CARL_T1	130	29	-101	0.35	0.14	-0.21	0	0	0	0	0	0	0	0
4/23/2024 21:54	50504	MECH_T1	0	24	24	0	0.13	0.13	0	0	0	0	0	0	0	0
4/23/2024 21:54	47002	HUGH_T2	62	129	67	0.15	0.18	0.03	0	0	0	0	0	0	0	0
4/23/2024 21:54	58402	MORO_T1	0	0	0	0	0	0	-0.05	-0.05	1	1	0	900	900	0
4/23/2024 21:54	45702	LIND_T2	1	1	0	1.3	1.4	0.1	-0.62	-0.61	0	0	0	0	0	0
4/23/2024 21:54	50105	HARR_T3	6	6	0	5.83	5.82	-0.01	0	0	0	0	0	0	0	0
4/23/2024 21:54	67502	WEWI_T2	37	279	242	0.14	0.28	0.14	-0.55	-0.58	0	0	0	0	0	0
4/23/2024 21:54	65205	PRIN_T1	1	3	2	1.9	0.83	-1.07	0	0	0	0	0	0	0	0
4/23/2024 21:54	40602	PIGR_T1	1	1	0	0.2	0.5	0.3	0.99	0.88	0	0	0	0	0	0
4/23/2024 21:54	57401	SPAN_T1	2	5	3	0.7	0.52	-0.18	-2.74	-2.64	2	2	0	1200	1200	0
4/23/2024 21:54	53902	HALI_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:54	65203	PRIN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:54	50103	HARR_T3	2	2	0	0.85	0.95	0.1	-2.07	-2.09	2	2	0	2400	2400	0
4/23/2024 21:54	53903	HALI_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
4/23/2024 21:54	66901	SHIL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/23/2024 21:54	65202	PRIN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:54	61701	ELIZ_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
4/23/2024 21:55	41802	GOCI_T2	32	23	-9	0.63	0.49	-0.14	0	0	0	0	0	0	0	0
4/23/2024 21:55	44502	HAMI_T2	1	1	0	3.1	3.5	0.4	-1.03	-1.04	0	0	0	0	0	0
4/23/2024 21:55	59002	MIFF_T1	5	5	0	0.32	0.38	0.06	0	0	0	0	0	0	0	0
4/23/2024 21:55	22101	EDEL_T2	0	0	0	0	0	0	0.34	0.33	1	1	0	1200	1200	0
4/23/2024 21:55	54205	PENN_T1	54	126	72	0.1	0.12	0.02	0	0	0	0	0	0	0	0
4/23/2024 21:55	65901	SAKR_T2	1	1	0	9.7	9.6	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:55	50201	HARR_T3	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:55	41502	FAIR_T2	0	1	1	0	0	0	-0.71	-0.7	0	0	0	0	0	0
4/23/2024 21:55	44505	HAMI_T2	0	0	0	0	0	0	0.35	0.47	0	0	0	0	0	0
4/23/2024 21:55	45702	LIND_T2	1	1	0	1.3	1.4	0.1	-0.62	-0.61	0	0	0	0	0	0
4/23/2024 21:55	14401	SSLA_T1	0	0	0	0	0	0	-0.62	-0.65	0	0	0	0	0	0
4/23/2024 21:55	43105	SMIL_T2	17	19	2	0.19	0.2	0.01	0	0	0	0	0	0	0	0
4/23/2024 21:55	28403	HART_T2	0	0	0	0	0	0	-0.97	-0.97	1	1	0	900	900	0
4/23/2024 21:55	57203	ROSS_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
4/23/2024 21:55	43104	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:55	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.65	0	0	0	0	0	0
4/23/2024 21:55	51603	DUKE_T1	1	1	0	0.1	0.2	0.1	-0.52	-0.53	0	0	0	0	0	0
4/23/2024 21:55	59101	WALK_T2	0	0	0	0	0	0	1.05	1.1	0	0	0	0	0	0
4/23/2024 21:55	43108	SMIL_T2	0	0	0	0	0	0	0.22	0.18	0	0	0	0	0	0
4/23/2024 21:55	54502	ENOL_T2	9	12	3	0.18	0.18	0	0	0	0	0	0	0	0	0
4/23/2024 21:55	47901	HRDG_T1	0	0	0	0	0	0	2.13	2.1	0	0	0	0	0	0
4/23/2024 21:55	60502	NMAN_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
4/23/2024 21:55	61304	EARL_T1	0	0	0	0	0	0	-0.47	-1.18	0	1	1	0	600	600
4/23/2024 21:55	50102	HARR_T3	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/23/2024 21:55	61303	EARL_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
4/23/2024 21:55	50103	HARR_T3	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:55	59003	MIFF_T1	1	1	0	0.5	0.6	0.1	0.73	0.54	0	0	0	0	0	0
4/23/2024 21:55	45801	HEGI_T1	0	0	0	0	0	0	-0.22	-0.26	1	1	0	900	900	0
4/23/2024 21:55	59201	THOM_T1	18	20	2	0.33	0.4	0.07	0	0	0	0	0	0	0	0
4/23/2024 21:55	49804	UNIV_T1	1	1	0	0.4	0.4	0	0.36	0.36	0	0	0	0	0	0
4/23/2024 21:55	26002	WDAM_T1	14	34	20	0.22	0.23	0.01	0	0	0	0	0	0	0	0
4/23/2024 21:55	65903	SAKR_T2	0	0	0	0	0	0	-1.52	-1.55	3	3	0	2100	2100	0
4/23/2024 21:55	26001	WDAM_T1	0	13	13	0	0.15	0.15	-0.44	-0.44	0	0	0	0	0	0
4/23/2024 21:55	50105	HARR_T3	6	6	0	5.83	5.82	-0.01	0	0	0	0	0	0	0	0
4/23/2024 21:55	64802	MONE_T2	0	7	7	0	0.14	0.14	0	0	0	0	0	0	0	0
4/23/2024 21:55	50202	HARR_T3	1	1	0	0.6	0.8	0.2	-0.36	-0.37	0	0	0	0	0	0
4/23/2024 21:55	41801	GOCI_T2	255	237	-18	0.53	0.45	-0.08	0	0	0	0	0	0	0	0
4/23/2024 21:55	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/23/2024 21:55	57702	PAXT_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
4/23/2024 21:55	54203	PENN_T1	191	214	23	0.31	0.32	0.01	-0.02	-0.04	0	0	0	0	0	0
4/23/2024 21:55	14404	SSLA_T1	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:55	54201	PENN_T1	83	79	-4	0.35	0.38	0.03	0	0	0	0	0	0	0	0
4/23/2024 21:55	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	-1.43	-1.43	1	1	0	600	600	0
4/23/2024 21:55	54501	ENOL_T2	4	4	0	0.2	0.28	0.08	0	0	0	0	0	0	0	0
4/23/2024 21:55	43103	SMIL_T2	21	22	1	0.91	1.01	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:55	43102	SMIL_T2	8	9	1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
4/23/2024 21:55	59202	THOM_T1	271	316	45	0.34	0.39	0.05	0	0	0	0	0	0	0	0
4/23/2024 21:55	60501	NMAN_T2	3	18	15	4.93	0.93	-4	0	0	0	0	0	0	0	0
4/23/2024 21:55	64801	MONE_T2	1	5	4	0.2	0.32	0.12	0.16	0.15	0	0	0	0	0	0
4/23/2024 21:55	61801	EELI_T2	0	0	0	0	0	0	-1.4	-1.41	0	0	0	0	0	0
4/23/2024 21:56	45802	HEGI_T2	15	19	4	0.41	0.44	0.03	1.25	1.11	0	0	0	0	0	0
4/23/2024 21:56	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 21:56	50504	MECH_T1	0	24	24	0	0.13	0.13	0	0	0	0	0	0	0	0
4/23/2024 21:56	40602	PIGR_T1	1	1	0	0.2	0.5	0.3	0.49	0.44	0	0	0	0	0	0
4/23/2024 21:56	57401	SPAN_T1	2	5	3	0.7	0.52	-0.18	-2.74	-2.64	2	2	0	1200	1200	0
4/23/2024 21:56	65901	SAKR_T2	1	1	0	9.7	9.6	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:56	43802	SWIL_T1	0	0	0	0	0	0	-0.36	-0.35	1	1	0	600	600	0
4/23/2024 21:56	50506	MECH_T1	0	0	0	0	0	0	0.18	0.09	0	0	0	0	0	0
4/23/2024 21:56	50202	HARR_T3	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/23/2024 21:56	50501	MECH_T1	4	4	0	1.08	1.63	0.55	0	0	0	0	0	0	0	0
4/23/2024 21:56	54205	PENN_T1	54	126	72	0.1	0.12	0.02	0	0	0	0	0	0	0	0
4/23/2024 21:56	65903	SAKR_T2	0	0	0	0	0	0	-1.52	-1.55	3	3	0	2100	2100	0
4/23/2024 21:56	50102	HARR_T3	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/23/2024 21:56	50201	HARR_T3	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:56	56501	ROCK_T2	2	2	0	0.5	0.7	0.2	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 21:56	24602	VARD_T2	1002	915	-87	1.39	1.31	-0.08	-1.13	-1.14	0	0	0	0	0	0
4/23/2024 21:56	52502	PROG_T2	0	0	0	0	0	0	0.16	-0.8	0	1	1	0	900	900
4/23/2024 21:56	15104	UPHA_T2	0	65	65	0	0.15	0.15	0	0	0	0	0	0	0	0
4/23/2024 21:56	54601	SUMM_T2	12	12	0	0.54	0.65	0.11	-2.02	-2.01	2	2	0	2100	2100	0
4/23/2024 21:56	25503	MADI_T1	363	224	-139	0.51	0.24	-0.27	-1.08	-1.11	0	0	0	0	0	0
4/23/2024 21:56	44601	SALE_T2	1	1	0	0.5	0.9	0.4	-0.13	-0.16	0	0	0	0	0	0
4/23/2024 21:56	64303	LINC_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
4/23/2024 21:56	44301	BEAV_T2	0	0	0	0	0	0	0.75	1.15	3	3	0	1800	1800	0
4/23/2024 21:56	25501	MADI_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/23/2024 21:56	43801	SWIL_T1	2	2	0	3.4	3.35	-0.05	0	0	0	0	0	0	0	0
4/23/2024 21:56	15103	UPHA_T2	0	286	286	0	0.17	0.17	0.35	0.33	0	0	0	0	0	0
4/23/2024 21:56	59302	MCAL_T1	1	1	0	0.7	0.8	0.1	-0.37	-0.36	1	1	0	600	600	0
4/23/2024 21:56	47901	HRDG_T1	0	0	0	0	0	0	2.13	2.1	0	0	0	0	0	0
4/23/2024 21:56	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	1	2	1	600	1800	1200
4/23/2024 21:56	60902	DONG_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
4/23/2024 21:56	50502	MECH_T1	1	1	0	2.5	2.9	0.4	0	0	0	0	0	0	0	0
4/23/2024 21:56	50105	HARR_T3	6	6	0	5.83	5.82	-0.01	0	0	0	0	0	0	0	0
4/23/2024 21:56	46302	ROHR_T1	27	131	104	0.49	0.3	-0.19	0.09	0.08	0	0	0	0	0	0
4/23/2024 21:56	59301	MCAL_T1	27	41	14	0.19	0.21	0.02	0	0	0	0	0	0	0	0
4/23/2024 21:56	14601	SWHI_T1	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
4/23/2024 21:56	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:56	54201	PENN_T1	83	79	-4	0.35	0.38	0.03	0	0	0	0	0	0	0	0
4/23/2024 21:56	47002	HUGH_T2	62	129	67	0.15	0.18	0.03	0	0	0	0	0	0	0	0
4/23/2024 21:56	57403	SPAN_T1	29	145	116	0.27	0.31	0.04	-0.08	-0.1	0	0	0	0	0	0
4/23/2024 21:56	20403	ASHF_T2	34	43	9	0.76	0.99	0.23	0.08	0.04	0	0	0	0	0	0
4/23/2024 21:56	10801	CHHI_T1	0	0	0	0	0	0	-1.07	-1.08	1	1	0	900	900	0
4/23/2024 21:56	24603	VARD_T2	284	284	0	0.41	0.39	-0.02	0	0	0	0	0	0	0	0
4/23/2024 21:56	54203	PENN_T1	191	214	23	0.31	0.32	0.01	-0.02	-0.04	0	0	0	0	0	0
4/23/2024 21:56	52503	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:56	67502	WEWI_T2	37	279	242	0.14	0.28	0.14	-0.55	-0.58	0	0	0	0	0	0
4/23/2024 21:56	28403	HART_T2	0	0	0	0	0	0	-0.97	-0.97	1	1	0	900	900	0
4/23/2024 21:56	47001	HUGH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:56	20401	ASHF_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:56	40601	PIGR_T1	188	63	-125	0.3	0.15	-0.15	-0.25	-0.24	0	0	0	0	0	0
4/23/2024 21:56	50103	HARR_T3	2	2	0	0.85	0.95	0.1	-1.03	-1.05	1	1	0	1200	1200	0
4/23/2024 21:56	46301	ROHR_T1	162	285	123	0.26	0.46	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:56	64101	REFR_T1	0	7	7	0	0.1	0.1	-1.08	-1.09	0	0	0	0	0	0
4/23/2024 21:56	41502	FAIR_T2	0	1	1	0	0	0	-0.71	-0.7	0	0	0	0	0	0
4/23/2024 21:56	15001	BLMO_T1	4	4	0	0.45	0.83	0.38	0	0	0	0	0	0	0	0
4/23/2024 21:57	20401	ASHF_T2	2	1	-1	0.2	0.1	-0.1	-0.41	-0.48	0	0	0	0	0	0
4/23/2024 21:57	40602	PIGR_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/23/2024 21:57	67401	WAKE_T2	0	7	7	0	0.1	0.1	-1.99	-1.99	0	0	0	0	0	0
4/23/2024 21:57	20403	ASHF_T2	34	43	9	0.76	0.99	0.23	0.08	0.04	0	0	0	0	0	0
4/23/2024 21:57	58402	MORO_T1	0	0	0	0	0	0	-0.05	-0.05	1	1	0	900	900	0
4/23/2024 21:57	66903	SHIL_T2	0	0	0	0	0	0	-1.09	-1.1	0	0	0	0	0	0
4/23/2024 21:57	57702	PAXT_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
4/23/2024 21:57	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:57	61102	BERK_T5	0	0	0	0	0	0	0.42	0.34	1	1	0	300	300	0
4/23/2024 21:57	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	1	2	1	600	1800	1200
4/23/2024 21:57	60803	BUCK_T1	0	4	4	0	0.13	0.13	-0.59	-0.59	1	1	0	600	600	0
4/23/2024 21:57	44502	HAMI_T2	1	1	0	3.1	3.5	0.4	-1.03	-1.04	0	0	0	0	0	0
4/23/2024 21:57	66901	SHIL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/23/2024 21:57	50504	MECH_T1	0	24	24	0	0.13	0.13	0	0	0	0	0	0	0	0
4/23/2024 21:57	65901	SAKR_T2	1	1	0	9.7	9.6	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:57	57401	SPAN_T1	2	5	3	0.7	0.52	-0.18	-1.37	-1.32	1	1	0	600	600	0
4/23/2024 21:57	60801	BUCK_T1	0	29	29	0	0.16	0.16	0	0	0	0	0	0	0	0
4/23/2024 21:57	43304	WATS_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
4/23/2024 21:57	65903	SAKR_T2	0	0	0	0	0	0	-1.52	-1.55	3	3	0	2100	2100	0
4/23/2024 21:57	61303	EARL_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
4/23/2024 21:57	50506	MECH_T1	0	0	0	0	0	0	0.18	0.09	0	0	0	0	0	0
4/23/2024 21:57	53601	DALM_T2	1	1	0	0.6	0.7	0.1	0	0.34	0	0	0	0	0	0
4/23/2024 21:57	50103	HARR_T3	2	2	0	0.85	0.95	0.1	-1.03	-1.05	1	1	0	1200	1200	0
4/23/2024 21:57	21901	HUMB_T1	0	0	0	0	0	0	-0.97	-1.04	0	0	0	0	0	0
4/23/2024 21:57	41502	FAIR_T2	0	1	1	0	0	0	-0.71	-0.7	0	0	0	0	0	0
4/23/2024 21:57	47103	MARL_T2	0	2	2	0	0.1	0.1	-0.68	-0.72	0	0	0	0	0	0
4/23/2024 21:57	61703	ELIZ_T1	0	0	0	0	0	0	-5.25	-5.3	4	4	0	4200	4200	0
4/23/2024 21:57	21204	ECAR_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:57	54601	SUMM_T2	12	12	0	0.54	0.65	0.11	-2.02	-2.01	2	2	0	2100	2100	0
4/23/2024 21:57	47102	MARL_T2	1	4	3	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
4/23/2024 21:57	13704	SCHN_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
4/23/2024 21:57	50501	MECH_T1	4	4	0	1.08	1.63	0.55	0	0	0	0	0	0	0	0
4/23/2024 21:57	51602	DUKE_T2	0	0	0	0	0	0	-0.3	-0.33	0	0	0	0	0	0
4/23/2024 21:57	43302	WATS_T2	4	4	0	1.18	1.4	0.22	0	0	0	0	0	0	0	0
4/23/2024 21:57	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.16	0	0	0	0	0	0
4/23/2024 21:57	50102	HARR_T3	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/23/2024 21:57	13701	SCHN_T2	0	4	4	0	0.1	0.1	-0.1	-0.1	1	1	0	600	600	0
4/23/2024 21:57	45802	HEGI_T2	15	19	4	0.41	0.44	0.03	1.25	1.11	0	0	0	0	0	0
4/23/2024 21:57	64801	MONE_T2	1	5	4	0.2	0.32	0.12	0	0	0	0	0	0	0	0
4/23/2024 21:57	21206	ECAR_T2	1	1	0	7.8	7.5	-0.3	1.16	1.14	0	0	0	0	0	0
4/23/2024 21:57	50502	MECH_T1	1	1	0	2.5	2.9	0.4	0	0	0	0	0	0	0	0
4/23/2024 21:57	42802	SELI_T1	1	1	0	0.7	0.9	0.2	-1.05	-1.1	1	1	0	900	900	0
4/23/2024 21:57	61701	ELIZ_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
4/23/2024 21:57	40601	PIGR_T1	188	63	-125	0.3	0.15	-0.15	-0.25	-0.24	0	0	0	0	0	0
4/23/2024 21:57	50202	HARR_T3	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:57	64802	MONE_T2	0	7	7	0	0.14	0.14	0.11	0.12	0	0	0	0	0	0
4/23/2024 21:57	50201	HARR_T3	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:57	50105	HARR_T3	6	6	0	5.83	5.82	-0.01	0	0	0	0	0	0	0	0
4/23/2024 21:57	57403	SPAN_T1	29	145	116	0.27	0.31	0.04	0	0	0	0	0	0	0	0
4/23/2024 21:58	54202	PENN_T2	393	427	34	0.29	0.37	0.08	0	0	0	0	0	0	0	0
4/23/2024 21:58	46001	BERW_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
4/23/2024 21:58	58401	MORO_T1	0	0	0	0	0	0	-1.35	-1.32	1	1	0	600	600	0
4/23/2024 21:58	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:58	57006	WHHI_T2	7	80	73	0.1	0.21	0.11	0	0	0	0	0	0	0	0
4/23/2024 21:58	59302	MCAL_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:58	43102	SMIL_T2	8	9	1	0.65	0.5	-0.15	-0.37	-0.39	0	0	0	0	0	0
4/23/2024 21:58	43105	SMIL_T2	17	19	2	0.19	0.2	0.01	0	0	0	0	0	0	0	0
4/23/2024 21:58	58001	WCAR_T1	35	42	7	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
4/23/2024 21:58	41901	REED_T1	8	1	-7	0.24	0.1	-0.14	0	0	0	0	0	0	0	0
4/23/2024 21:58	54206	PENN_T2	122	236	114	0.27	0.24	-0.03	-0.09	-0.09	0	0	0	0	0	0
4/23/2024 21:58	53901	HALI_T2	1	2	1	0.7	1	0.3	-0.44	-0.47	0	0	0	0	0	0
4/23/2024 21:58	52602	KIMB_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
4/23/2024 21:58	13701	SCHN_T2	0	4	4	0	0.1	0.1	-0.1	-0.1	1	1	0	600	600	0
4/23/2024 21:58	13704	SCHN_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
4/23/2024 21:58	54501	ENOL_T2	4	4	0	0.2	0.28	0.08	0	0	0	0	0	0	0	0
4/23/2024 21:58	15103	UPHA_T2	0	286	286	0	0.17	0.17	0	0	0	0	0	0	0	0
4/23/2024 21:58	58003	WCAR_T1	106	141	35	0.43	0.36	-0.07	0.57	0.56	0	0	0	0	0	0
4/23/2024 21:58	52503	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:58	54502	ENOL_T2	9	12	3	0.18	0.18	0	0	0	0	0	0	0	0	0
4/23/2024 21:58	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	-1.43	-1.43	1	1	0	600	600	0
4/23/2024 21:58	43302	WATS_T2	4	4	0	1.18	1.4	0.22	0	0	0	0	0	0	0	0
4/23/2024 21:58	60102	COCA_T1	0	0	0	0	0	0	0.21	0.39	1	1	0	600	600	0
4/23/2024 21:58	57303	MOAL_T2	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:58	61801	EELI_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
4/23/2024 21:58	43103	SMIL_T2	21	22	1	0.91	1.01	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:58	43104	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:58	42204	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 21:58	20603	GRWO_T2	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
4/23/2024 21:58	51604	DUKE_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
4/23/2024 21:58	67703	WERN_T2	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
4/23/2024 21:58	43304	WATS_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
4/23/2024 21:58	47901	HRDG_T1	0	0	0	0	0	0	2.13	2.1	0	0	0	0	0	0
4/23/2024 21:58	47401	PENS_T1	0	0	0	0	0	0	1.58	1.44	0	0	0	0	0	0
4/23/2024 21:58	57004	WHHI_T2	0	0	0	0	0	0	-0.73	-0.69	0	0	0	0	0	0
4/23/2024 21:58	53902	HALI_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:58	14403	SSLA_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
4/23/2024 21:58	45402	WBLO_T2	1	2	1	1.2	0.75	-0.45	-0.95	-0.94	0	0	0	0	0	0
4/23/2024 21:58	41902	REED_T1	0	0	0	0	0	0	0.96	0.93	0	0	0	0	0	0
4/23/2024 21:58	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
4/23/2024 21:58	48901	FOSP_T2	0	0	0	0	0	0	0.23	-0.43	0	1	1	0	600	600
4/23/2024 21:58	14603	SWHI_T1	0	0	0	0	0	0	-1.12	-1.12	1	1	0	600	600	0
4/23/2024 21:58	15104	UPHA_T2	0	65	65	0	0.15	0.15	0.33	0.27	0	0	0	0	0	0
4/23/2024 21:58	57003	WHHI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/23/2024 21:58	54204	PENN_T2	2	3	1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:58	57304	MOAL_T2	44	70	26	0.3	0.91	0.61	-0.54	-0.59	0	0	0	0	0	0
4/23/2024 21:58	53903	HALI_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
4/23/2024 21:58	14404	SSLA_T1	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
4/23/2024 21:58	59101	WALK_T2	0	0	0	0	0	0	2.1	2.2	0	0	0	0	0	0
4/23/2024 21:58	52502	PROG_T2	0	0	0	0	0	0	0.16	-0.8	0	1	1	0	900	900
4/23/2024 21:58	57301	MOAL_T2	2	9	7	0.1	0.24	0.14	0	0	0	0	0	0	0	0
4/23/2024 21:58	59301	MCAL_T1	27	41	14	0.19	0.21	0.02	-1.24	-1.26	0	0	0	0	0	0
4/23/2024 21:58	67501	WEWI_T1	0	65	65	0	0.22	0.22	-0.73	-0.77	0	0	0	0	0	0
4/23/2024 21:59	13704	SCHN_T2	0	4	4	0	0.18	0.18	-0.85	-0.85	0	0	0	0	0	0
4/23/2024 21:59	44301	BEAV_T2	0	0	0	0	0	0	0.25	0.38	1	1	0	600	600	0
4/23/2024 21:59	13701	SCHN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:59	57403	SPAN_T1	29	145	116	0.27	0.31	0.04	-0.08	-0.1	0	0	0	0	0	0
4/23/2024 21:59	66701	STRA_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
4/23/2024 21:59	57401	SPAN_T1	2	5	3	0.7	0.52	-0.18	-1.37	-1.32	1	1	0	600	600	0
4/23/2024 21:59	41301	FISH_T1	7	11	4	0.77	0.53	-0.24	-0.06	-0.1	0	0	0	0	0	0
4/23/2024 21:59	52004	LING_T2	1	1	0	0.1	0.4	0.3	0.08	0.08	0	0	0	0	0	0
4/23/2024 21:59	51603	DUKE_T1	1	1	0	0.1	0.2	0.1	-0.52	-0.53	0	0	0	0	0	0
4/23/2024 21:59	41305	FISH_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 21:59	66703	STRA_T1	4	244	240	0.25	0.42	0.17	0	0	0	0	0	0	0	0
4/23/2024 21:59	52002	LING_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
4/23/2024 21:59	63801	HEMP_T1	0	0	0	0	0	0	-0.14	0.02	0	0	0	0	0	0
4/23/2024 21:59	43302	WATS_T2	4	4	0	1.18	1.4	0.22	0	0	0	0	0	0	0	0
4/23/2024 21:59	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:59	42903	MIDD_T2	2	2	0	0.45	0.9	0.45	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/23/2024 21:59	40801	EXCH_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 21:59	43301	WATS_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
4/23/2024 21:59	52006	LING_T2	3	3	0	0.8	0.93	0.13	0	0	0	0	0	0	0	0
4/23/2024 21:59	40802	EXCH_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
4/23/2024 21:59	42902	MIDD_T2	0	0	0	0	0	0	-1.26	-1.28	1	1	0	600	600	0
4/23/2024 22:00	40101	HUNT_T2	0	0	0	0	0	0	-0.93	-1.01	0	0	0	0	0	0
4/23/2024 22:00	50102	HARR_T3	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/23/2024 22:00	65604	QVIL_T2	0	2	2	0	0.2	0.2	0.17	0.18	0	0	0	0	0	0
4/23/2024 22:00	66504	SMAN_T2	0	0	0	0	0	0	-1.45	-1.49	0	0	0	0	0	0
4/23/2024 22:00	66503	SMAN_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 22:00	61704	ELIZ_T2	5	1	-4	0.16	0	-0.16	0	0	0	0	0	0	0	0
4/23/2024 22:00	63301	GREE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 22:00	52006	LING_T2	3	3	0	0.87	0.93	0.06	0	0	0	0	0	0	0	0
4/23/2024 22:00	63302	GREE_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
4/23/2024 22:00	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 22:00	58401	MORO_T1	0	0	0	0	0	0	-1.35	-1.32	1	1	0	600	600	0
4/23/2024 22:00	63305	GREE_T1	9	16	7	0.2	0.32	0.12	0	0	0	0	0	0	0	0
4/23/2024 22:00	50105	HARR_T3	6	6	0	5.82	6.13	0.31	0	0	0	0	0	0	0	0
4/23/2024 22:00	50103	HARR_T3	2	2	0	0.95	0.15	-0.8	-1.03	-1.05	1	1	0	1200	1200	0
4/23/2024 22:00	67402	WAKE_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
4/23/2024 22:00	52002	LING_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
4/23/2024 22:00	18001	ZION_T1	0	12	12	0	0.11	0.11	0	0	0	0	0	0	0	0
4/23/2024 22:00	61702	ELIZ_T2	4	0	-4	0.13	0	-0.13	-1.72	-1.7	1	1	0	300	300	0
4/23/2024 22:00	50201	HARR_T3	1	0	-1	0.4	0	-0.4	0.2	0.25	0	0	0	0	0	0
4/23/2024 22:00	67401	WAKE_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 22:00	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 22:00	63306	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 22:00	50202	HARR_T3	1	0	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
4/23/2024 22:00	65601	QVIL_T2	7	107	100	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/23/2024 22:00	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
4/23/2024 22:00	52004	LING_T2	1	1	0	0.3	0.4	0.1	0.08	0.08	0	0	0	0	0	0
4/23/2024 22:00	65603	QVIL_T2	0	28	28	0	0.18	0.18	0	0	0	0	0	0	0	0
4/23/2024 22:00	63304	GREE_T1	0	25	25	0	0.1	0.1	0	0	0	0	0	0	0	0
4/23/2024 22:01	41902	REED_T1	0	0	0	0	0	0	0.96	0.93	0	0	0	0	0	0
4/23/2024 22:01	58402	MORO_T1	0	0	0	0	0	0	-0.05	-0.05	1	1	0	900	900	0
4/23/2024 22:01	43302	WATS_T2	4	4	0	1.03	1.4	0.37	0	0	0	0	0	0	0	0
4/23/2024 22:01	42902	MIDD_T2	0	0	0	0	0	0	-1.26	-1.28	1	1	0	600	600	0
4/23/2024 22:01	67201	TEHI_T1	0	0	0	0	0	0	-0.35	-0.38	1	1	0	900	900	0
4/23/2024 22:01	43301	WATS_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
4/23/2024 22:01	52502	PROG_T2	0	0	0	0	0	0	0.16	0.8	0	1	1	0	900	900
4/23/2024 22:01	12401	MILF_T1	0	2	2	0	0.15	0.15	-0.47	-0.5	0	0	0	0	0	0
4/23/2024 22:01	54601	SUMM_T2	12	9	-3	0.65	0.22	-0.43	-2.02	-2.01	2	2	0	2100	2100	0
4/23/2024 22:01	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 22:01	42903	MIDD_T2	2	2	0	0.65	0.9	0.25	-1.38	-1.38	1	1	0	1200	1200	0
4/23/2024 22:01	56501	ROCK_T2	2	2	0	0.7	0.1	-0.6	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 22:02	57203	ROSS_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
4/23/2024 22:02	54202	PENN_T2	427	26	-401	0.37	0.11	-0.26	0	0	0	0	0	0	0	0
4/23/2024 22:02	41802	GOCI_T2	23	11	-12	0.49	0.18	-0.31	0	0	0	0	0	0	0	0
4/23/2024 22:02	41305	FISH_T1	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 22:02	41301	FISH_T1	11	2	-9	0.53	2.15	1.62	-0.06	-0.1	0	0	0	0	0	0
4/23/2024 22:02	56501	ROCK_T2	2	2	0	0.7	0.1	-0.6	-0.01	-0.01	0	0	0	0	0	0
4/23/2024 22:02	23001	SAJO_T1	0	0	0	0	0	0	-0.01	0.06	0	0	0	0	0	0
4/23/2024 22:02	13105	NHAM_T2	0	0	0	0	0	0	-0.86	-0.87	1	1	0	1200	1200	0
4/23/2024 22:02	41801	GOCI_T2	236	100	-136	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
4/23/2024 22:02	54204	PENN_T2	3	2	-1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
4/23/2024 22:02	54206	PENN_T2	236	31	-205	0.24	0.15	-0.09	-0.09	-0.09	0	0	0	0	0	0
4/23/2024 22:02	40802	EXCH_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
4/23/2024 22:03	57401	SPAN_T1	5	2	-3	0.52	0.55	0.03	-1.37	-1.32	1	1	0	600	600	0
4/23/2024 22:03	65503	MOJO_T2	132	19	-113	0.22	0.29	0.07	0	0	0	0	0	0	0	0
4/23/2024 22:03	53901	HALI_T2	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
4/23/2024 22:03	65502	MOJO_T2	286	0	-286	0.21	0	-0.21	-1.14	-1.13	0	0	0	0	0	0
4/23/2024 22:03	40101	HUNT_T2	0	0	0	0	0	0	-0.47	-0.51	0	0	0	0	0	0
4/23/2024 22:03	51104	CARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/23/2024 22:03	51102	CARL_T1	29	0	-29	0.14	0	-0.14	0	0	0	0	0	0	0	0
4/23/2024 22:03	52502	PROG_T2	0	0	0	0	0	0	0.16	-0.8	0	1	1	0	900	900
4/23/2024 22:03	57403	SPAN_T1	145	19	-126	0.31	0.2	-0.11	0	0	0	0	0	0	0	0
4/23/2024 22:03	64702	LITI_T2	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
4/23/2024 22:03	41902	REED_T1	0	0	0	0	0	0	0.96	0.93	0	0	0	0	0	0
4/23/2024 22:03	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/23/2024 22:03	51107	CARL_T1	0	0	0	0	0	0	-0.36	-0.31	0	0	0	0	0	0
4/23/2024 22:03	51604	DUKE_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
4/23/2024 22:03	53902	HALI_T2	1	1	0	5.6	5	-0.6	-0.31	-0.31	0	0	0	0	0	0
4/23/2024 22:03	53903	HALI_T2	2	2	0	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
4/23/2024 22:04	57205	ROSS_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
4/23/2024 22:04	58401	MORO_T1	0	0	0	0	0	0	-1.35	-1.32	1	1	0	600	600	0
4/23/2024 22:04	44201	POIN_T1	170	474	304	0.2	0.31	0.11	-2.56	-2.49	2	2	0	2100	2100	0
4/23/2024 22:05	51602	DUKE_T2	0	0	0	0	0	0	-0.3	-0.33	0	0	0	0	0	0
4/23/2024 22:05	40101	HUNT_T2	0	0	0	0	0	0	-0.47	-0.51	0	0	0	0	0	0
4/23/2024 22:15	47101	MARL_T1	0	0	0	0	0	0	-0.37	-0.33	0	0	0	0	0	0
4/23/2024 22:16	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/23/2024 22:20	13502	MCMI_T1	17	5	-12	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
4/23/2024 22:20	13501	MCMI_T1	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
4/23/2024 22:22	51604	DUKE_T2	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
4/23/2024 22:32	13803	SALI_T1	0	0	0	0	0	0	0.69	0.67	1	1	0	1200	1200	0
4/23/2024 22:34	13803	SALI_T1	0	0	0	0	0	0	1.38	1.34	2	2	0	2400	2400	0
4/23/2024 22:56	11201	ELHE_T2	0	0	0	0	0	0	-0.17	-0.15	2	2	0	2400	2400	0
4/24/2024 0:23	45901	AUBU_T1	0	0	0	0	0	0	1.99	2	0	0	0	0	0	0
4/24/2024 3:35	54502	ENOL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/24/2024 3:35	54505	ENOL_T2	1	1	0	0.1	0.2	0.1	-1.46	-1.44	1	1	0	600	600	0
4/24/2024 5:05	60501	NMAN_T2	3	3	0	4.5	4.7	0.2	0	0	0	0	0	0	0	0
4/24/2024 5:05	60502	NMAN_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
4/24/2024 7:11	15001	BLMO_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/24/2024 7:18	43202	MVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 7:18	11205	ELHE_T1	0	0	0	0	0	0	-0.98	-0.89	1	1	0	1200	1200	0
4/24/2024 7:18	43201	MVIL_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
4/24/2024 7:20	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 7:46	64903	MILL_T2	21	0	-21	0.17	0	-0.17	0	0	0	0	0	0	0	0
4/24/2024 7:46	64902	MILL_T2	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
4/24/2024 7:47	45702	LIND_T2	1	1	0	0.7	1	0.3	-0.48	-0.47	0	0	0	0	0	0
4/24/2024 7:58	63305	GREE_T1	8	0	-8	0.26	0	-0.26	0	0	0	0	0	0	0	0
4/24/2024 7:58	63303	GREE_T1	0	0	0	0	0	0	1.4	1.34	0	0	0	0	0	0
4/24/2024 7:58	63304	GREE_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 7:58	63301	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 7:59	45702	LIND_T2	1	1	0	0.7	1	0.3	-0.47	-0.5	0	0	0	0	0	0
4/24/2024 8:05	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 8:05	66505	SMAN_T2	2	3	1	0.3	0.43	0.13	0	0	0	0	0	0	0	0
4/24/2024 8:05	66502	SMAN_T2	0	3	3	0	0.37	0.37	0.34	0.37	0	0	0	0	0	0
4/24/2024 8:05	59101	WALK_T2	0	0	0	0	0	0	1.93	1.94	0	0	0	0	0	0
4/24/2024 8:06	59101	WALK_T2	0	0	0	0	0	0	1.93	1.94	0	0	0	0	0	0
4/24/2024 8:08	16301	ALPA_T1	1	3	2	0.3	0.33	0.03	-0.49	-0.43	0	0	0	0	0	0
4/24/2024 8:10	67605	WARW_T1	5	9	4	0.24	0.38	0.14	-0.91	-0.91	0	0	0	0	0	0
4/24/2024 8:12	41801	GOCI_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 8:12	41802	GOCI_T2	5	6	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/24/2024 8:14	41801	GOCI_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 8:14	41802	GOCI_T2	5	6	1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/24/2024 8:14	67605	WARW_T1	5	9	4	0.24	0.38	0.14	-0.91	-0.91	0	0	0	0	0	0
4/24/2024 8:19	60502	NMAN_T2	0	0	0	0	0	0	-0.42	-0.39	0	0	0	0	0	0
4/24/2024 8:19	66502	SMAN_T2	0	7	7	0	0.23	0.23	0.37	0.25	0	0	0	0	0	0
4/24/2024 8:19	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 8:19	60501	NMAN_T2	4	33	29	4.35	0.69	-3.66	0	0	0	0	0	0	0	0
4/24/2024 8:19	66505	SMAN_T2	3	3	0	0.33	0.53	0.2	0	0	0	0	0	0	0	0
4/24/2024 8:20	12102	SALL_T2	0	1	1	0	0.4	0.4	0.04	0.08	0	0	0	0	0	0
4/24/2024 8:20	66505	SMAN_T2	3	3	0	0.33	0.53	0.2	0	0	0	0	0	0	0	0
4/24/2024 8:20	57205	ROSS_T1	0	0	0	0	0	0	-1.82	0.14	2	0	-2	1800	0	-1800
4/24/2024 8:20	66502	SMAN_T2	0	7	7	0	0.23	0.23	0.37	0.25	0	0	0	0	0	0
4/24/2024 8:20	12101	SALL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 8:20	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 8:20	58402	MORO_T1	0	0	0	0	0	0	-0.4	-0.4	2	2	0	1500	1500	0
4/24/2024 8:22	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 8:22	66502	SMAN_T2	0	7	7	0	0.23	0.23	0.37	0.25	0	0	0	0	0	0
4/24/2024 8:22	16301	ALPA_T1	1	12	11	0.4	0.18	-0.22	-0.43	-0.48	0	0	0	0	0	0
4/24/2024 8:22	66505	SMAN_T2	3	3	0	0.33	0.53	0.2	0	0	0	0	0	0	0	0
4/24/2024 8:28	40101	HUNT_T2	0	0	0	0	0	0	-0.54	-0.36	0	0	0	0	0	0
4/24/2024 8:35	24901	WHHA_T1	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
4/24/2024 8:35	54602	SUMM_T2	12	0	-12	0.26	0	-0.26	-2.55	-2.55	1	1	0	600	600	0
4/24/2024 8:35	13901	SEID_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
4/24/2024 8:35	24902	WHHA_T1	1	51	50	0.6	0.18	-0.42	0	0	0	0	0	0	0	0
4/24/2024 8:35	54601	SUMM_T2	12	13	1	0.69	0.63	-0.06	0	0	0	0	0	0	0	0
4/24/2024 8:37	67505	WEWI_T1	0	0	0	0	0	0	0.57	0.52	0	0	0	0	0	0
4/24/2024 8:37	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
4/24/2024 8:37	29402	BELT_T1	1	1	0	7.7	8	0.3	0	0	0	0	0	0	0	0
4/24/2024 8:38	54601	SUMM_T2	12	13	1	0.69	0.63	-0.06	0	0	0	0	0	0	0	0
4/24/2024 8:38	54603	SUMM_T2	0	0	0	0	0	0	-0.08	-0.04	1	1	0	900	900	0
4/24/2024 8:38	54602	SUMM_T2	12	0	-12	0.26	0	-0.26	0	0	0	0	0	0	0	0
4/24/2024 8:39	20401	ASHF_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/24/2024 8:39	29402	BELT_T1	1	1	0	7.7	8	0.3	0	0	0	0	0	0	0	0
4/24/2024 8:39	67703	WERN_T2	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
4/24/2024 8:39	20403	ASHF_T2	3	44	41	0.47	0.18	-0.29	0.23	0.09	0	0	0	0	0	0
4/24/2024 8:40	61103	BERK_T5	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 8:40	10805	CHHI_T2	1	1	0	7.8	7.7	-0.1	-1.5	-1.73	2	2	0	1200	1200	0
4/24/2024 8:40	20401	ASHF_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/24/2024 8:40	20403	ASHF_T2	3	44	41	0.47	0.18	-0.29	0.23	0.09	0	0	0	0	0	0
4/24/2024 8:41	61102	BERK_T5	0	0	0	0	0	0	0.76	0.61	1	1	0	300	300	0
4/24/2024 8:41	44301	BEAV_T2	0	0	0	0	0	0	0.32	0.49	2	2	0	1500	1500	0
4/24/2024 8:41	10801	CHHI_T1	0	0	0	0	0	0	-0.78	-0.8	1	1	0	900	900	0
4/24/2024 8:41	61103	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 8:46	12802	MICK_T1	14	1	-13	0.17	0.1	-0.07	-0.97	-0.98	0	0	0	0	0	0
4/24/2024 8:46	12801	MICK_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 8:46	12807	MICK_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
4/24/2024 8:47	12802	MICK_T1	14	1	-13	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
4/24/2024 8:47	12801	MICK_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 8:47	12807	MICK_T1	1	1	0	1.3	1.2	-0.1	0.23	0.18	0	0	0	0	0	0
4/24/2024 8:48	64801	MONE_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/24/2024 8:48	64802	MONE_T2	0	1	1	0	0.4	0.4	0.19	0.17	0	0	0	0	0	0
4/24/2024 8:48	58402	MORO_T1	0	0	0	0	0	0	-0.32	-0.31	2	2	0	1500	1500	0
4/24/2024 8:49	46302	ROHR_T1	7	6	-1	1.6	1.83	0.23	0.13	0.13	0	0	0	0	0	0
4/24/2024 8:49	60502	NMAN_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
4/24/2024 8:49	60501	NMAN_T2	33	21	-12	0.69	0.95	0.26	0	0	0	0	0	0	0	0
4/24/2024 8:49	46301	ROHR_T1	103	36	-67	0.2	0.2	0	0	0	0	0	0	0	0	0
4/24/2024 8:50	46301	ROHR_T1	103	36	-67	0.2	0.2	0	0	0	0	0	0	0	0	0
4/24/2024 8:50	46302	ROHR_T1	7	6	-1	1.6	1.83	0.23	0.13	0.13	0	0	0	0	0	0
4/24/2024 8:51	58402	MORO_T1	0	0	0	0	0	0	-0.32	-0.31	2	2	0	1500	1500	0
4/24/2024 8:55	61103	BERK_T5	1	0	-1	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 8:56	61103	BERK_T5	1	0	-1	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 8:56	54504	ENOL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/24/2024 8:56	54502	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
4/24/2024 8:56	54505	ENOL_T2	1	2	1	0.7	0.55	-0.15	-1.4	-1.39	1	1	0	600	600	0
4/24/2024 8:59	59302	MCAL_T1	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
4/24/2024 8:59	54504	ENOL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/24/2024 8:59	54505	ENOL_T2	1	2	1	0.7	0.55	-0.15	-1.4	-1.39	1	1	0	600	600	0
4/24/2024 8:59	59301	MCAL_T1	1	3	2	0.4	0.17	-0.23	-1.51	-1.49	1	1	0	600	600	0
4/24/2024 8:59	54502	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
4/24/2024 8:59	47001	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 9:02	47001	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 9:02	48302	ORWI_T2	2	2	0	1.4	1.6	0.2	-0.05	0	0	0	0	0	0	0
4/24/2024 9:03	16203	POFA_T2	0	3	3	0	0.53	0.53	0	0	0	0	0	0	0	0
4/24/2024 9:03	16201	POFA_T2	0	10	10	0	0.12	0.12	0	0	0	0	0	0	0	0
4/24/2024 9:04	43202	MVIL_T2	92	96	4	0.83	0.98	0.15	-0.68	-0.67	0	0	0	0	0	0
4/24/2024 9:07	51301	WIND_T1	2	6	4	0.2	0.45	0.25	-0.36	-0.43	0	0	0	0	0	0
4/24/2024 9:07	41502	FAIR_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
4/24/2024 9:07	51305	WIND_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/24/2024 9:07	11102	EGYP_T1	1	3	2	0.1	0.43	0.33	0	0	0	0	0	0	0	0
4/24/2024 9:07	51303	WIND_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/24/2024 9:07	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/24/2024 9:07	11104	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 9:08	58001	WCAR_T1	4	6	2	1.23	1.12	-0.11	0	0	0	0	0	0	0	0
4/24/2024 9:08	51305	WIND_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/24/2024 9:08	51301	WIND_T1	2	6	4	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/24/2024 9:08	51303	WIND_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/24/2024 9:08	58003	WCAR_T1	5	23	18	0.44	0.27	-0.17	0.76	0.76	0	0	0	0	0	0
4/24/2024 9:12	54505	ENOL_T2	2	2	0	0.45	0.7	0.25	-1.39	-1.4	1	1	0	600	600	0
4/24/2024 9:12	54502	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/24/2024 9:12	54504	ENOL_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
4/24/2024 9:13	26402	INOR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 9:13	26401	INOR_T1	1	1	0	8.2	8.5	0.3	0.87	0.67	0	0	0	0	0	0
4/24/2024 9:13	40101	HUNT_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
4/24/2024 9:14	54502	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/24/2024 9:14	54504	ENOL_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
4/24/2024 9:14	54505	ENOL_T2	2	2	0	0.45	0.7	0.25	-1.39	-1.4	1	1	0	600	600	0
4/24/2024 9:16	45702	LIND_T2	1	1	0	0.7	0.5	-0.2	-0.5	-0.49	0	0	0	0	0	0
4/24/2024 9:16	55002	NEWP_T1	11	12	1	1.15	1.08	-0.07	-0.24	-0.24	0	0	0	0	0	0
4/24/2024 9:17	52006	LING_T2	2	4	2	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
4/24/2024 9:17	52004	LING_T2	1	4	3	0.2	0.38	0.18	0.45	0.43	0	0	0	0	0	0
4/24/2024 9:17	52002	LING_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
4/24/2024 9:18	26401	INOR_T1	1	1	0	8	8.8	0.8	0.87	0.67	0	0	0	0	0	0
4/24/2024 9:18	45701	LIND_T2	0	0	0	0	0	0	-0.99	-1	0	0	0	0	0	0
4/24/2024 9:18	45702	LIND_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/24/2024 9:18	40101	HUNT_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
4/24/2024 9:19	55002	NEWP_T1	11	12	1	1.15	1.08	-0.07	-0.24	-0.24	0	0	0	0	0	0
4/24/2024 9:20	55002	NEWP_T1	11	12	1	1.15	1.08	-0.07	-0.24	-0.24	0	0	0	0	0	0
4/24/2024 9:20	57401	SPAN_T1	9	30	21	0.5	0.35	-0.15	-1.27	-1.25	1	1	0	600	600	0
4/24/2024 9:20	57403	SPAN_T1	68	166	98	0.24	0.38	0.14	0	0	0	0	0	0	0	0
4/24/2024 9:21	17002	RIRO_T2	2	3	1	0.85	1.03	0.18	0.63	0.56	0	0	0	0	0	0
4/24/2024 9:22	56802	BENV_T2	114	194	80	0.21	0.31	0.1	-0.75	-0.75	0	0	0	0	0	0
4/24/2024 9:22	56803	BENV_T1	5	2	-3	0.22	0.25	0.03	0	0	0	0	0	0	0	0
4/24/2024 9:22	14403	SSLA_T1	0	2	2	0	0.2	0.2	0.62	0.77	0	0	0	0	0	0
4/24/2024 9:22	56801	BENV_T1	29	31	2	0.73	0.71	-0.02	-0.23	-0.25	0	0	0	0	0	0
4/24/2024 9:22	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 9:22	14401	SSLA_T1	1	2	1	1.3	0.8	-0.5	-0.5	-0.57	0	0	0	0	0	0
4/24/2024 9:22	14404	SSLA_T1	6	10	4	1.35	1	-0.35	0	0	0	0	0	0	0	0
4/24/2024 9:23	14403	SSLA_T1	0	2	2	0	0.2	0.2	0.62	0.77	0	0	0	0	0	0
4/24/2024 9:23	56802	BENV_T2	114	194	80	0.21	0.31	0.1	-2.26	-2.28	0	0	0	0	0	0
4/24/2024 9:23	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 9:23	57401	SPAN_T1	9	30	21	0.5	0.35	-0.15	-3.74	-3.88	3	3	0	1800	1800	0
4/24/2024 9:23	57403	SPAN_T1	68	166	98	0.24	0.38	0.14	0	0	0	0	0	0	0	0
4/24/2024 9:23	14404	SSLA_T1	6	10	4	1.35	1	-0.35	0	0	0	0	0	0	0	0
4/24/2024 9:23	14401	SSLA_T1	1	2	1	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
4/24/2024 9:24	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
4/24/2024 9:24	56802	BENV_T2	114	194	80	0.21	0.31	0.1	-3.01	-3.05	0	0	0	0	0	0
4/24/2024 9:25	14404	SSLA_T1	6	10	4	1.35	1	-0.35	0	0	0	0	0	0	0	0
4/24/2024 9:25	14403	SSLA_T1	0	2	2	0	0.2	0.2	0.77	0.59	0	0	0	0	0	0
4/24/2024 9:25	46206	DANV_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/24/2024 9:25	46203	DANV_T2	1	1	0	0.1	0.1	0	0.08	0.13	0	0	0	0	0	0
4/24/2024 9:25	14401	SSLA_T1	1	2	1	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
4/24/2024 9:25	56802	BENV_T2	114	194	80	0.21	0.31	0.1	-0.75	-0.76	0	0	0	0	0	0
4/24/2024 9:25	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 9:26	56802	BENV_T2	114	194	80	0.21	0.31	0.1	-1.5	-1.52	0	0	0	0	0	0
4/24/2024 9:27	45702	LIND_T2	1	1	0	0.7	0.5	-0.2	-0.49	-0.47	0	0	0	0	0	0
4/24/2024 9:27	56802	BENV_T2	114	194	80	0.21	0.31	0.1	-0.75	-0.76	0	0	0	0	0	0
4/24/2024 9:28	56802	BENV_T2	114	194	80	0.21	0.31	0.1	-1.5	-1.52	0	0	0	0	0	0
4/24/2024 9:28	46206	DANV_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/24/2024 9:28	46203	DANV_T2	1	1	0	0.1	0.1	0	0.08	0.13	0	0	0	0	0	0
4/24/2024 9:29	11201	ELHE_T2	0	1	1	0	0.3	0.3	-0.45	-0.41	2	2	0	2400	2400	0
4/24/2024 9:31	55002	NEWP_T1	11	11	0	1.06	1.35	0.29	-0.24	-0.27	0	0	0	0	0	0
4/24/2024 9:33	65802	RTWN_T2	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
4/24/2024 9:34	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 9:34	56501	ROCK_T2	3	4	1	0.7	0.58	-0.12	-0.02	-0.02	0	0	0	0	0	0
4/24/2024 9:34	56504	ROCK_T2	1	3	2	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/24/2024 9:35	67605	WARW_T1	13	15	2	0.41	0.49	0.08	-0.92	-0.84	0	0	0	0	0	0
4/24/2024 9:35	56504	ROCK_T2	1	3	2	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/24/2024 9:35	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 9:35	56501	ROCK_T2	3	4	1	0.7	0.58	-0.12	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 9:36	67605	WARW_T1	13	15	2	0.41	0.49	0.08	-0.92	-0.84	0	0	0	0	0	0
4/24/2024 9:36	55002	NEWP_T1	11	11	0	1.06	1.35	0.29	-0.48	-0.54	0	0	0	0	0	0
4/24/2024 9:37	45902	AUBU_T1	1	1	0	0.6	0.6	0	-1.95	-1.77	3	3	0	1800	1800	0
4/24/2024 9:38	15702	TANN_T2	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
4/24/2024 9:38	67702	WERN_T2	0	2	2	0	0.25	0.25	-0.05	-0.05	0	0	0	0	0	0
4/24/2024 9:38	17002	RIRO_T2	3	4	1	1.03	0.65	-0.38	0.56	0.55	0	0	0	0	0	0
4/24/2024 9:38	45902	AUBU_T1	1	1	0	0.6	0.6	0	-0.59	-0.52	1	1	0	600	600	0
4/24/2024 9:38	15703	TANN_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
4/24/2024 9:39	67702	WERN_T2	0	2	2	0	0.25	0.25	-0.05	-0.05	0	0	0	0	0	0
4/24/2024 9:40	67605	WARW_T1	13	15	2	0.41	0.49	0.08	-0.84	-0.85	0	0	0	0	0	0
4/24/2024 9:40	67702	WERN_T2	0	2	2	0	0.25	0.25	-0.1	-0.1	0	0	0	0	0	0
4/24/2024 9:41	64801	MONE_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/24/2024 9:41	67702	WERN_T2	0	2	2	0	0.25	0.25	-0.05	-0.05	0	0	0	0	0	0
4/24/2024 9:41	64802	MONE_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
4/24/2024 9:41	45902	AUBU_T1	1	1	0	0.6	0.6	0	-0.59	-0.52	1	1	0	600	600	0
4/24/2024 9:42	45902	AUBU_T1	1	1	0	0.6	0.6	0	-0.59	-0.52	1	1	0	600	600	0
4/24/2024 9:52	67605	WARW_T1	14	15	1	0.46	0.46	0	-0.84	-0.85	0	0	0	0	0	0
4/24/2024 9:59	11504	FREE_T1	0	0	0	0	0	0	-2.22	-2.22	2	2	0	2100	2100	0
4/24/2024 10:00	46005	BERW_T1	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/24/2024 10:00	52001	LING_T1	0	1	1	0	0.4	0.4	0.17	0.17	0	0	0	0	0	0
4/24/2024 10:00	45502	DERR_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/24/2024 10:00	45702	LIND_T2	1	1	0	0.6	0.5	-0.1	-0.48	-0.47	0	0	0	0	0	0
4/24/2024 10:00	52002	LING_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
4/24/2024 10:00	24101	EHAZ_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/24/2024 10:00	53901	HALI_T2	1	1	0	0.9	0.8	-0.1	-0.51	-0.47	0	0	0	0	0	0
4/24/2024 10:00	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/24/2024 10:00	50105	HARR_T3	6	6	0	6	6.07	0.07	0	0	0	0	0	0	0	0
4/24/2024 10:00	63803	HEMP_T1	3	4	1	0.3	0.38	0.08	0	0	0	0	0	0	0	0
4/24/2024 10:00	24104	EHAZ_T1	6	21	15	0.38	0.21	-0.17	0	0	0	0	0	0	0	0
4/24/2024 10:00	43102	SMIL_T2	3	4	1	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/24/2024 10:00	40701	FFLD_T1	6	9	3	0.1	0.1	0	0	0	0	0	0	0	0	0
4/24/2024 10:00	52006	LING_T2	3	4	1	0.67	0.48	-0.19	0	0	0	0	0	0	0	0
4/24/2024 10:00	57205	ROSS_T1	1	1	0	1.1	1.3	0.2	0.12	0.13	0	0	0	0	0	0
4/24/2024 10:00	24105	EHAZ_T1	4	4	0	6.68	6.55	-0.13	-0.71	-0.73	1	1	0	1200	1200	0
4/24/2024 10:00	43105	SMIL_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/24/2024 10:00	10801	CHHI_T1	7	4	-3	0.71	0.35	-0.36	-1.6	-1.82	2	2	0	1800	1800	0
4/24/2024 10:00	66505	SMAN_T2	3	0	-3	0.77	0	-0.77	0	0	0	0	0	0	0	0
4/24/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	-0.13	-0.07	0	0	0	0	0	0
4/24/2024 10:00	56802	BENV_T2	180	202	22	0.21	0.29	0.08	-0.76	-0.71	0	0	0	0	0	0
4/24/2024 10:00	16103	BING_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
4/24/2024 10:00	65003	NEFF_T2	276	299	23	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
4/24/2024 10:00	51004	NHAR_T1	14	14	0	1.09	1.27	0.18	0	0	0	0	0	0	0	0
4/24/2024 10:00	62105	ELAN_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 10:00	66502	SMAN_T2	36	2	-34	0.41	0.25	-0.16	1.42	1.03	0	0	0	0	0	0
4/24/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.54	-0.5	4	4	0	3000	3000	0
4/24/2024 10:00	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 10:00	11805	FRAN_T1	0	0	0	0	0	0	-1.08	-1.06	1	1	0	1200	1200	0
4/24/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
4/24/2024 10:00	53902	HALI_T2	2	3	1	2.85	2	-0.85	0	0	0	0	0	0	0	0
4/24/2024 10:00	42002	MNVL_T2	1	1	0	4.8	4.6	-0.2	0	0	0	0	0	0	0	0
4/24/2024 10:00	61302	EARL_T1	0	1	1	0	0.7	0.7	0.74	0.93	2	2	0	1800	1800	0
4/24/2024 10:00	47002	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 10:00	59101	WALK_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/24/2024 10:00	64904	MILL_T1	2	0	-2	0.25	0	-0.25	0.37	0.4	0	0	0	0	0	0
4/24/2024 10:00	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 10:00	65001	NEFF_T2	266	268	2	0.39	0.31	-0.08	-0.3	-0.49	1	1	0	1200	1200	0
4/24/2024 10:00	29402	BELT_T1	2	5	3	4.15	2.15	-2	0	0	0	0	0	0	0	0
4/24/2024 10:00	57002	WHHI_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
4/24/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	-0.13	0.05	0	0	0	0	0	0
4/24/2024 10:00	16101	BING_T2	0	1	1	0	0.3	0.3	0.32	0.3	0	0	0	0	0	0
4/24/2024 10:00	67002	STHI_T2	155	214	59	0.16	0.2	0.04	0.74	0.68	0	0	0	0	0	0
4/24/2024 10:00	66501	SMAN_T2	9	2	-7	0.31	0.25	-0.06	0	0	0	0	0	0	0	0
4/24/2024 10:00	65702	RVIL_T2	0	0	0	0	0	0	-0.6	-0.56	0	0	0	0	0	0
4/24/2024 10:00	51002	NHAR_T1	1	2	1	1.1	1.1	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/24/2024 10:00	56601	HAMP_T1	1	1	0	0.1	0.1	0	-1.84	-1.83	0	0	0	0	0	0
4/24/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	0.63	0.56	2	2	0	1800	1800	0
4/24/2024 10:00	67703	WERN_T2	0	1	1	0	0.2	0.2	1.28	1.26	0	0	0	0	0	0
4/24/2024 10:00	59202	THOM_T1	1	9	8	0.2	0.46	0.26	0	0	0	0	0	0	0	0
4/24/2024 10:00	12807	MICK_T1	2	1	-1	0.65	0.7	0.05	0.19	0.16	0	0	0	0	0	0
4/24/2024 10:00	57006	WHHI_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
4/24/2024 10:00	60701	BREC_T1	0	2	2	0	0.8	0.8	-0.28	-0.48	2	2	0	1200	1200	0
4/24/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
4/24/2024 10:00	62605	ENGL_T1	1	2	1	0.1	0.3	0.2	-0.86	-0.84	0	0	0	0	0	0
4/24/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
4/24/2024 10:00	16402	MOPO_T1	229	236	7	0.82	0.71	-0.11	0.4	0.37	0	0	0	0	0	0
4/24/2024 10:00	48302	ORWI_T2	2	2	0	1.7	1.4	-0.3	-0.02	0	0	0	0	0	0	0
4/24/2024 10:00	50103	HARR_T3	0	2	2	0	0.1	0.1	0.64	0.28	0	0	0	0	0	0
4/24/2024 10:00	53501	EVIL_T2	4	3	-1	0.68	0.47	-0.21	0.42	0.26	1	1	0	600	600	0
4/24/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.64	0.64	2	2	0	1200	1200	0
4/24/2024 10:00	27502	WEIS_T2	0	0	0	0	0	0	0.29	0.16	0	0	0	0	0	0
4/24/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	0.99	1.02	0	0	0	0	0	0
4/24/2024 10:00	53903	HALI_T2	2	6	4	1.1	0.45	-0.65	0	0	0	0	0	0	0	0
4/24/2024 10:00	54601	SUMM_T2	13	13	0	0.82	0.67	-0.15	0	0	0	0	0	0	0	0
4/24/2024 10:00	57403	SPAN_T1	160	140	-20	0.27	0.24	-0.03	-0.08	-0.07	0	0	0	0	0	0
4/24/2024 10:00	29401	BELT_T1	1	2	1	0.2	0.2	0	0	0	3	3	0	2700	2700	0
4/24/2024 10:00	57106	SPHI_T2	2	2	0	1.15	1	-0.15	0	0	0	0	0	0	0	0
4/24/2024 10:00	43103	SMIL_T2	17	13	-4	0.64	0.56	-0.08	0	0	0	0	0	0	0	0
4/24/2024 10:00	59102	WALK_T2	0	1	1	0	0.2	0.2	1	0.94	0	0	0	0	0	0
4/24/2024 10:00	11804	FRAN_T1	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
4/24/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	-0.18	-0.14	1	1	0	600	600	0
4/24/2024 10:00	54001	SDLE_T1	5	9	4	0.32	0.41	0.09	0	0	0	0	0	0	0	0
4/24/2024 10:00	17101	WTRE_T2	2	2	0	9	9.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 10:00	66504	SMAN_T2	12	1	-11	0.41	0.7	0.29	-0.8	-0.56	0	0	0	0	0	0
4/24/2024 10:00	64304	LINC_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/24/2024 10:00	65004	NEFF_T2	475	389	-86	0.17	0.18	0.01	0	0	0	0	0	0	0	0
4/24/2024 10:00	13503	MCMI_T2	0	1	1	0	0.7	0.7	-0.01	-0.05	0	0	0	0	0	0
4/24/2024 10:00	67001	STHI_T2	440	418	-22	0.2	0.22	0.02	0	0	0	0	0	0	0	0
4/24/2024 10:00	12601	MACA_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/24/2024 10:00	42903	MIDD_T2	0	0	0	0	0	0	0.17	0.19	1	1	0	1200	1200	0
4/24/2024 10:00	12605	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 10:00	66302	MCGO_T2	12	192	180	0.24	0.19	-0.05	-0.94	-1.1	1	1	0	600	600	0
4/24/2024 10:00	42902	MIDD_T2	0	6	6	0	0.34	0.34	0	0	0	0	0	0	0	0
4/24/2024 10:00	45602	WOOL_T1	4	3	-1	0.43	0.33	-0.1	0.88	0.84	0	0	0	0	0	0
4/24/2024 10:00	57003	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 10:00	62607	ENGL_T1	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/24/2024 10:00	45902	AUBU_T1	1	1	0	0.6	0.4	-0.2	-0.52	-0.55	1	1	0	600	600	0
4/24/2024 10:00	52004	LING_T2	4	3	-1	0.43	0.53	0.1	0.34	0.41	0	0	0	0	0	0
4/24/2024 10:00	16102	BING_T2	0	2	2	0	0.35	0.35	-0.75	-0.84	1	1	0	1200	1200	0
4/24/2024 10:00	67702	WERN_T2	2	1	-1	0.25	1	0.75	-0.05	-0.09	0	0	0	0	0	0
4/24/2024 10:00	12604	MACA_T1	0	0	0	0	0	0	0.3	0.25	0	0	0	0	0	0
4/24/2024 10:00	63801	HEMP_T1	4	7	3	0.3	0.31	0.01	0.25	0.28	0	0	0	0	0	0
4/24/2024 10:00	41502	FAIR_T2	0	42	42	0	0	0	-0.71	-0.73	0	0	0	0	0	0
4/24/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	0.05	0.04	1	1	0	600	600	0
4/24/2024 10:00	15103	UPHA_T2	2	3	1	0.3	0.53	0.23	0.36	0.35	0	0	0	0	0	0
4/24/2024 10:00	57104	SPHI_T2	0	1	1	0	0.3	0.3	-0.17	-0.15	0	0	0	0	0	0
4/24/2024 10:00	54602	SUMM_T2	11	0	-11	0.32	0	-0.32	-2.44	-2.48	1	1	0	600	600	0
4/24/2024 10:00	22102	EDEL_T1	0	0	0	0	0	0	-0.45	-0.28	1	1	0	1200	1200	0
4/24/2024 10:00	42001	MNVL_T2	2	4	2	0.25	0.48	0.23	-0.05	-0.05	0	0	0	0	0	0
4/24/2024 10:00	12803	MICK_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 10:00	66303	MCGO_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
4/24/2024 10:00	57101	SPHI_T2	6	0	-6	1	0.92	-0.08	0	0	0	0	0	0	0	0
4/24/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-1.52	-1.51	0	0	0	0	0	0
4/24/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.28	1.28	0	0	0	0	0	0
4/24/2024 10:00	10805	CHHI_T2	1	1	0	7.6	7.6	0	-0.26	-0.69	0	0	0	0	0	0
4/24/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.97	0.95	0	0	0	0	0	0
4/24/2024 10:00	63804	HEMP_T1	2	1	-1	3.25	6.4	3.15	0	0	0	0	0	0	0	0
4/24/2024 10:00	64901	MILL_T1	8	19	11	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
4/24/2024 10:00	40703	FFLD_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
4/24/2024 10:00	17001	RIRO_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
4/24/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-0.32	-0.41	0	0	0	0	0	0
4/24/2024 10:00	65002	NEFF_T2	275	331	56	0.14	0.15	0.01	0	0	0	0	0	0	0	0
4/24/2024 10:00	65005	NEFF_T2	5	10	5	0.2	0.33	0.13	0	0	0	0	0	0	0	0
4/24/2024 10:00	50201	HARR_T3	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/24/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	0.37	0.45	0	0	0	0	0	0
4/24/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	0	0.02	1	1	0	1200	1200	0
4/24/2024 10:00	57401	SPAN_T1	17	9	-8	0.46	0.7	0.24	-3.75	-3.75	3	3	0	1800	1800	0
4/24/2024 10:00	40505	CRES_T1	3	4	1	5.7	4.28	-1.42	0.44	0.45	0	0	0	0	0	0
4/24/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.1	-0.04	0	0	0	0	0	0
4/24/2024 10:00	58803	COCO_T1	1	1	0	2.6	2.4	-0.2	0	0	0	0	0	0	0	0
4/24/2024 10:00	43104	SMIL_T2	0	0	0	0	0	0	-0.88	-0.86	1	1	0	300	300	0
4/24/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/24/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
4/24/2024 10:04	55003	NEWP_T2	15	17	2	0.87	1.11	0.24	-0.13	-0.17	0	0	0	0	0	0
4/24/2024 10:05	41502	FAIR_T2	0	42	42	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 10:05	41504	FAIR_T2	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
4/24/2024 10:06	66505	SMAN_T2	3	0	-3	0.77	0	-0.77	0	0	0	0	0	0	0	0
4/24/2024 10:06	66501	SMAN_T2	9	2	-7	0.31	0.25	-0.06	0	0	0	0	0	0	0	0
4/24/2024 10:06	66504	SMAN_T2	12	1	-11	0.41	0.7	0.29	-0.4	-0.28	0	0	0	0	0	0
4/24/2024 10:06	66502	SMAN_T2	36	2	-34	0.41	0.25	-0.16	0	0	0	0	0	0	0	0
4/24/2024 10:06	67605	WARW_T1	14	15	1	0.41	0.53	0.12	0	0	0	0	0	0	0	0
4/24/2024 10:06	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 10:06	67603	WARW_T1	0	1	1	0	0.7	0.7	-0.02	-0.01	0	0	0	0	0	0
4/24/2024 10:07	40201	BEGA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/24/2024 10:07	58101	NEKI_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/24/2024 10:07	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 10:07	50506	MECH_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 10:07	63306	GREE_T1	0	0	0	0	0	0	-1.18	-1.2	0	0	0	0	0	0
4/24/2024 10:07	40101	HUNT_T2	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
4/24/2024 10:07	66501	SMAN_T2	9	2	-7	0.31	0.25	-0.06	0	0	0	0	0	0	0	0
4/24/2024 10:07	53501	EVIL_T2	4	3	-1	0.68	0.47	-0.21	0.42	0.26	1	1	0	600	600	0
4/24/2024 10:07	50505	MECH_T1	0	1	1	0	0.1	0.1	-0.89	-0.89	0	0	0	0	0	0
4/24/2024 10:07	57403	SPAN_T1	160	140	-20	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
4/24/2024 10:07	64802	MONE_T2	0	35	35	0	0.39	0.39	0	0	0	0	0	0	0	0
4/24/2024 10:07	44502	HAMI_T2	1	1	0	3.5	3.6	0.1	0	0	0	0	0	0	0	0
4/24/2024 10:07	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 10:07	57401	SPAN_T1	17	9	-8	0.46	0.7	0.24	-1.25	-1.25	1	1	0	600	600	0
4/24/2024 10:07	58102	NEKI_T1	2	2	0	0.65	0.5	-0.15	0.26	0.34	0	0	0	0	0	0
4/24/2024 10:07	60502	NMAN_T2	3	0	-3	0.2	0	-0.2	-0.39	-0.3	0	0	0	0	0	0
4/24/2024 10:07	44505	HAMI_T2	0	1	1	0	0.3	0.3	0.56	0.59	0	0	0	0	0	0
4/24/2024 10:07	66505	SMAN_T2	3	0	-3	0.77	0	-0.77	0	0	0	0	0	0	0	0
4/24/2024 10:07	14603	SWHI_T1	6	4	-2	0.45	0.48	0.03	0	0	0	0	0	0	0	0
4/24/2024 10:07	14601	SWHI_T1	2	5	3	0.4	0.28	-0.12	-1.02	-1.01	0	0	0	0	0	0
4/24/2024 10:07	64801	MONE_T2	1	4	3	0.1	0.28	0.18	0.22	0.17	0	0	0	0	0	0
4/24/2024 10:07	50501	MECH_T1	4	4	0	0.98	0.78	-0.2	0	0	0	0	0	0	0	0
4/24/2024 10:07	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 10:07	60501	NMAN_T2	22	3	-19	0.91	5.27	4.36	0	0	0	0	0	0	0	0
4/24/2024 10:07	50502	MECH_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
4/24/2024 10:07	60504	NMAN_T2	3	2	-1	0.93	0.55	-0.38	0	0	0	0	0	0	0	0
4/24/2024 10:07	50503	MECH_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/24/2024 10:07	50701	SMEC_T1	2	3	1	0.55	0.77	0.22	0.15	0.12	0	0	0	0	0	0
4/24/2024 10:07	66502	SMAN_T2	36	2	-34	0.41	0.25	-0.16	0.47	0.34	0	0	0	0	0	0
4/24/2024 10:07	66504	SMAN_T2	12	1	-11	0.41	0.7	0.29	0	0	0	0	0	0	0	0
4/24/2024 10:07	44201	POIN_T1	0	0	0	0	0	0	-1.6	-1.42	2	2	0	2100	2100	0
4/24/2024 10:08	29402	BELT_T1	2	5	3	4.15	2.15	-2	0	0	0	0	0	0	0	0
4/24/2024 10:08	67702	WERN_T2	2	1	-1	0.25	1	0.75	0	0	0	0	0	0	0	0
4/24/2024 10:08	66501	SMAN_T2	9	2	-7	0.31	0.25	-0.06	0	0	0	0	0	0	0	0
4/24/2024 10:08	20401	ASHF_T2	4	0	-4	0.13	0	-0.13	-0.4	-0.38	0	0	0	0	0	0
4/24/2024 10:08	66504	SMAN_T2	12	1	-11	0.41	0.7	0.29	0	0	0	0	0	0	0	0
4/24/2024 10:08	67502	WEWI_T2	1	22	21	0.5	0.43	-0.07	-0.16	-0.21	0	0	0	0	0	0
4/24/2024 10:08	60801	BUCK_T1	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
4/24/2024 10:08	66502	SMAN_T2	36	2	-34	0.41	0.25	-0.16	1.03	0.99	0	0	0	0	0	0
4/24/2024 10:08	66505	SMAN_T2	3	0	-3	0.77	0	-0.77	0	0	0	0	0	0	0	0
4/24/2024 10:08	53501	EVIL_T2	4	3	-1	0.68	0.47	-0.21	0.26	0.3	1	1	0	600	600	0
4/24/2024 10:08	40101	HUNT_T2	0	0	0	0	0	0	-0.2	-0.17	0	0	0	0	0	0
4/24/2024 10:08	56503	ROCK_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/24/2024 10:08	45602	WOOL_T1	4	3	-1	0.43	0.33	-0.1	0.88	0.84	0	0	0	0	0	0
4/24/2024 10:08	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 10:08	67703	WERN_T2	0	1	1	0	0.2	0.2	0.63	0.66	0	0	0	0	0	0
4/24/2024 10:08	58001	WCAR_T1	5	4	-1	1.16	1.13	-0.03	0	0	0	0	0	0	0	0
4/24/2024 10:08	29401	BELT_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
4/24/2024 10:08	56501	ROCK_T2	4	5	1	0.58	0.54	-0.04	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 10:08	58003	WCAR_T1	12	1	-11	0.44	1.4	0.96	0.77	0.76	0	0	0	0	0	0
4/24/2024 10:08	20403	ASHF_T2	35	8	-27	0.29	0.5	0.21	0	0	0	0	0	0	0	0
4/24/2024 10:08	56504	ROCK_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
4/24/2024 10:08	20402	ASHF_T2	1	4	3	0.4	0.4	0	0	0	0	0	0	0	0	0
4/24/2024 10:08	64902	MILL_T2	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
4/24/2024 10:08	25603	ARRO_T1	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
4/24/2024 10:09	11405	FARM_T1	8	4	-4	0.19	0.28	0.09	0	0	0	0	0	0	0	0
4/24/2024 10:09	22401	MORG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 10:09	22405	MORG_T2	0	0	0	0	0	0	-1.55	-1.53	0	0	0	0	0	0
4/24/2024 10:09	11404	FARM_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/24/2024 10:09	11402	FARM_T1	5	6	1	0.52	0.5	-0.02	0	0	0	0	0	0	0	0
4/24/2024 10:09	11401	FARM_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
4/24/2024 10:09	11407	FARM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 10:10	11302	EMMA_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
4/24/2024 10:10	16102	BING_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/24/2024 10:10	20402	ASHF_T2	1	4	3	0.4	0.4	0	0	0	0	0	0	0	0	0
4/24/2024 10:10	20403	ASHF_T2	35	8	-27	0.29	0.5	0.21	0	0	0	0	0	0	0	0
4/24/2024 10:10	11303	EMMA_T1	1	4	3	0.9	0.45	-0.45	0	0	0	0	0	0	0	0
4/24/2024 10:10	11301	EMMA_T1	0	3	3	0	0.27	0.27	-0.77	-0.82	0	0	0	0	0	0
4/24/2024 10:10	16101	BING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/24/2024 10:10	20401	ASHF_T2	4	0	-4	0.13	0	-0.13	-0.4	-0.38	0	0	0	0	0	0
4/24/2024 10:10	16103	BING_T2	0	1	1	0	0.9	0.9	-0.13	-0.07	1	1	0	600	600	0
4/24/2024 10:11	44505	HAMI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/24/2024 10:11	67603	WARW_T1	0	1	1	0	0.7	0.7	-0.01	0	0	0	0	0	0	0
4/24/2024 10:11	67501	WEWI_T1	0	4	4	0	0.68	0.68	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/24/2024 10:11	67505	WEWI_T1	0	3	3	0	0.27	0.27	0.56	0.48	0	0	0	0	0	0
4/24/2024 10:11	67605	WARW_T1	14	15	1	0.41	0.53	0.12	0	0	0	0	0	0	0	0
4/24/2024 10:11	44502	HAMI_T2	1	1	0	3.5	3.6	0.1	-1.01	-0.98	0	0	0	0	0	0
4/24/2024 10:12	11303	EMMA_T1	1	4	3	0.9	0.45	-0.45	0	0	0	0	0	0	0	0
4/24/2024 10:12	24501	GOUL_T2	3	0	-3	0.17	0	-0.17	0.05	0.04	0	0	0	0	0	0
4/24/2024 10:12	11302	EMMA_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
4/24/2024 10:12	11301	EMMA_T1	0	3	3	0	0.27	0.27	-0.77	-0.82	0	0	0	0	0	0
4/24/2024 10:13	20601	GRWO_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
4/24/2024 10:13	20603	GRWO_T2	3	4	1	0.57	0.33	-0.24	0	0	0	0	0	0	0	0
4/24/2024 10:14	67603	WARW_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/24/2024 10:14	14205	EALL_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
4/24/2024 10:14	67605	WARW_T1	14	15	1	0.41	0.53	0.12	-0.88	-0.92	0	0	0	0	0	0
4/24/2024 10:15	22601	KIMB_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/24/2024 10:15	45801	HEGI_T1	0	0	0	0	0	0	-0.02	-0.12	1	1	0	900	900	0
4/24/2024 10:15	11803	FRAN_T2	1	1	0	0.5	1.2	0.7	0.37	0.14	0	0	0	0	0	0
4/24/2024 10:15	63801	HEMP_T1	7	4	-3	0.29	0.33	0.04	0.28	0.25	0	0	0	0	0	0
4/24/2024 10:15	63803	HEMP_T1	4	4	0	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
4/24/2024 10:15	22602	KIMB_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
4/24/2024 10:15	63804	HEMP_T1	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
4/24/2024 10:15	45701	LIND_T2	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
4/24/2024 10:15	45702	LIND_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/24/2024 10:16	11201	ELHE_T2	1	1	0	0.4	0.3	-0.1	-0.4	-0.4	2	2	0	2400	2400	0
4/24/2024 10:16	42902	MIDD_T2	0	5	5	0	0.34	0.34	-2.07	-2.06	2	2	0	1200	1200	0
4/24/2024 10:17	24203	PROV_T4	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 10:17	52002	LING_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/24/2024 10:17	52006	LING_T2	3	4	1	0.6	0.38	-0.22	0	0	0	0	0	0	0	0
4/24/2024 10:17	24202	PROV_T4	1	1	0	9.6	9.3	-0.3	-1	-0.96	0	0	0	0	0	0
4/24/2024 10:17	52004	LING_T2	3	4	1	0.5	0.6	0.1	0.82	0.79	0	0	0	0	0	0
4/24/2024 10:18	52006	LING_T2	3	4	1	0.6	0.38	-0.22	0	0	0	0	0	0	0	0
4/24/2024 10:18	52002	LING_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/24/2024 10:18	52004	LING_T2	3	4	1	0.5	0.6	0.1	0.41	0.4	0	0	0	0	0	0
4/24/2024 10:18	20603	GRWO_T2	4	4	0	0.23	0.33	0.1	0.41	0.34	0	0	0	0	0	0
4/24/2024 10:18	52001	LING_T1	1	2	1	0.3	0.3	0	0.17	0.16	0	0	0	0	0	0
4/24/2024 10:19	65904	SAKR_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/24/2024 10:19	45702	LIND_T2	1	0	-1	0.5	0	-0.5	-0.47	-0.49	0	0	0	0	0	0
4/24/2024 10:19	64904	MILL_T1	0	0	0	0	0	0	0.4	0.5	0	0	0	0	0	0
4/24/2024 10:19	42902	MIDD_T2	0	5	5	0	0.34	0.34	-1.03	-1.03	1	1	0	600	600	0
4/24/2024 10:19	13902	SEID_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/24/2024 10:19	64901	MILL_T1	5	20	15	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/24/2024 10:19	65901	SAKR_T2	2	2	0	4.55	5.2	0.65	-1.06	-1.26	1	1	0	900	900	0
4/24/2024 10:19	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 10:20	13901	SEID_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
4/24/2024 10:20	13902	SEID_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/24/2024 10:20	60502	NMAN_T2	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
4/24/2024 10:20	60501	NMAN_T2	3	3	0	5.17	5.27	0.1	0	0	0	0	0	0	0	0
4/24/2024 10:20	64101	REFR_T1	4	5	1	0.28	0.42	0.14	-1.67	-1.83	0	0	0	0	0	0
4/24/2024 10:20	60504	NMAN_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
4/24/2024 10:21	26001	WDAM_T1	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
4/24/2024 10:21	14403	SSLA_T1	1	3	2	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
4/24/2024 10:21	15703	TANN_T2	1	1	0	6	6.3	0.3	0	0	0	0	0	0	0	0
4/24/2024 10:21	14404	SSLA_T1	3	5	2	2.13	1.54	-0.59	-0.04	-0.01	0	0	0	0	0	0
4/24/2024 10:21	15702	TANN_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
4/24/2024 10:21	26002	WDAM_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/24/2024 10:21	14401	SSLA_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
4/24/2024 10:22	51302	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 10:22	51304	WIND_T2	0	1	1	0	0.5	0.5	-0.02	0	0	0	0	0	0	0
4/24/2024 10:22	67203	TEHI_T1	0	0	0	0	0	0	2.2	2.15	2	2	0	1200	1200	0
4/24/2024 10:22	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 10:22	29402	BELT_T1	2	6	4	4.2	1.68	-2.52	0	0	0	0	0	0	0	0
4/24/2024 10:22	29401	BELT_T1	1	3	2	0.3	0.17	-0.13	0	0	1	1	0	900	900	0
4/24/2024 10:22	51306	WIND_T2	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/24/2024 10:23	29401	BELT_T1	1	3	2	0.3	0.17	-0.13	0	0	1	1	0	900	900	0
4/24/2024 10:23	67702	WERN_T2	1	1	0	0.7	1	0.3	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 10:23	67703	WERN_T2	1	2	1	0.2	0.25	0.05	1.32	1.34	0	0	0	0	0	0
4/24/2024 10:23	14401	SSLA_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
4/24/2024 10:23	14403	SSLA_T1	1	3	2	0.8	0.2	-0.6	0.62	0.58	0	0	0	0	0	0
4/24/2024 10:23	45902	AUBU_T1	1	0	-1	0.4	0	-0.4	-0.6	0	1	1	0	600	600	0
4/24/2024 10:23	14404	SSLA_T1	3	5	2	2.13	1.54	-0.59	-0.04	-0.01	0	0	0	0	0	0
4/24/2024 10:23	67605	WARW_T1	14	15	1	0.46	0.58	0.12	-1.85	-1.78	0	0	0	0	0	0
4/24/2024 10:23	29402	BELT_T1	2	6	4	4.2	1.68	-2.52	0	0	0	0	0	0	0	0
4/24/2024 10:23	67603	WARW_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/24/2024 10:23	60701	BREC_T1	2	2	0	0.6	0.8	0.2	-0.49	-0.34	2	2	0	1200	1200	0
4/24/2024 10:24	67605	WARW_T1	14	15	1	0.46	0.58	0.12	-0.92	-0.89	0	0	0	0	0	0
4/24/2024 10:24	45902	AUBU_T1	1	0	-1	0.4	0	-0.4	-0.6	0	1	1	0	600	600	0
4/24/2024 10:24	29401	BELT_T1	1	3	2	0.3	0.17	-0.13	0	0	1	1	0	900	900	0
4/24/2024 10:24	29402	BELT_T1	2	6	4	4.2	1.68	-2.52	0	0	0	0	0	0	0	0
4/24/2024 10:24	67603	WARW_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/24/2024 10:25	14403	SSLA_T1	1	3	2	0.8	0.2	-0.6	0.58	0.63	0	0	0	0	0	0
4/24/2024 10:25	67703	WERN_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/24/2024 10:25	67702	WERN_T2	1	1	0	0.7	1	0.3	-0.02	-0.02	0	0	0	0	0	0
4/24/2024 10:25	45902	AUBU_T1	1	0	-1	0.4	0	-0.4	-1.2	0	2	2	0	1200	1200	0
4/24/2024 10:25	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 10:25	14401	SSLA_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
4/24/2024 10:25	14404	SSLA_T1	3	5	2	2.13	1.54	-0.59	0	0	0	0	0	0	0	0
4/24/2024 10:26	29401	BELT_T1	1	3	2	0.3	0.17	-0.13	0	0	1	1	0	900	900	0
4/24/2024 10:26	15703	TANN_T2	1	1	0	6	6.3	0.3	0	0	0	0	0	0	0	0
4/24/2024 10:26	15702	TANN_T2	0	0	0	0	0	0	0.43	0.39	0	0	0	0	0	0
4/24/2024 10:26	67703	WERN_T2	1	2	1	0.2	0.25	0.05	0.66	0.67	0	0	0	0	0	0
4/24/2024 10:26	67702	WERN_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
4/24/2024 10:26	29402	BELT_T1	2	6	4	4.2	1.68	-2.52	0	0	0	0	0	0	0	0
4/24/2024 10:26	60701	BREC_T1	2	2	0	0.6	0.8	0.2	-0.49	-0.34	2	2	0	1200	1200	0
4/24/2024 10:27	29401	BELT_T1	1	3	2	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
4/24/2024 10:27	67703	WERN_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/24/2024 10:27	67702	WERN_T2	1	1	0	0.7	1	0.3	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 10:27	54505	ENOL_T2	2	1	-1	0.55	0.7	0.15	0	0	0	0	0	0	0	0
4/24/2024 10:27	60701	BREC_T1	2	2	0	0.6	0.8	0.2	-0.49	-0.34	2	2	0	1200	1200	0
4/24/2024 10:27	54504	ENOL_T2	1	1	0	0.9	0.3	-0.6	-0.97	-1.04	1	1	0	600	600	0
4/24/2024 10:27	54502	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/24/2024 10:27	29402	BELT_T1	2	6	4	4.2	1.68	-2.52	0	0	0	0	0	0	0	0
4/24/2024 10:27	17401	FOHI_T1	2	2	0	0.2	0.15	-0.05	-1.04	-1.03	0	0	0	0	0	0
4/24/2024 10:29	63302	GREE_T1	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
4/24/2024 10:30	65503	MOJO_T2	2	0	-2	0.15	0	-0.15	-0.29	-0.24	0	0	0	0	0	0
4/24/2024 10:30	44502	HAMI_T2	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
4/24/2024 10:30	44504	HAMI_T2	0	1	1	0	0.1	0.1	-1.03	-0.97	0	0	0	0	0	0
4/24/2024 10:30	44505	HAMI_T2	1	5	4	0.3	0.38	0.08	0	0	0	0	0	0	0	0
4/24/2024 10:31	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 10:31	48302	ORWI_T2	2	2	0	1.2	1.15	-0.05	0	0.01	0	0	0	0	0	0
4/24/2024 10:31	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
4/24/2024 10:31	64202	KINZ_T1	3	3	0	1.03	0.9	-0.13	0.56	0.58	0	0	0	0	0	0
4/24/2024 10:35	13704	SCHN_T2	0	1	1	0	0.2	0.2	-0.34	-0.34	0	0	0	0	0	0
4/24/2024 10:35	14603	SWHI_T1	3	4	1	0.33	0.33	0	0	0	0	0	0	0	0	0
4/24/2024 10:35	14601	SWHI_T1	1	1	0	0.2	0.6	0.4	-1.01	-1	0	0	0	0	0	0
4/24/2024 10:36	23001	SAJO_T1	0	0	0	0	0	0	-0.97	-1	0	0	0	0	0	0
4/24/2024 10:36	13704	SCHN_T2	0	1	1	0	0.2	0.2	-0.67	-0.67	0	0	0	0	0	0
4/24/2024 10:36	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/24/2024 10:36	41502	FAIR_T2	0	0	0	0	0	0	-0.67	-0.73	0	0	0	0	0	0
4/24/2024 10:36	23002	SAJO_T1	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
4/24/2024 10:36	23003	SAJO_T1	0	862	862	0	0.29	0.29	0	0	0	0	0	0	0	0
4/24/2024 10:37	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/24/2024 10:37	67501	WEWI_T1	4	4	0	0.68	0.35	-0.33	-0.44	-0.58	0	0	0	0	0	0
4/24/2024 10:37	23003	SAJO_T1	0	862	862	0	0.29	0.29	0	0	0	0	0	0	0	0
4/24/2024 10:37	67504	WEWI_T1	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
4/24/2024 10:37	14603	SWHI_T1	3	4	1	0.33	0.33	0	0	0	0	0	0	0	0	0
4/24/2024 10:37	26002	WDAM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 10:37	67505	WEWI_T1	3	2	-1	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
4/24/2024 10:37	23002	SAJO_T1	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
4/24/2024 10:37	14601	SWHI_T1	1	1	0	0.2	0.6	0.4	-1.01	-1	0	0	0	0	0	0
4/24/2024 10:37	26001	WDAM_T1	0	1	1	0	0.6	0.6	-0.42	-0.43	0	0	0	0	0	0
4/24/2024 10:37	23001	SAJO_T1	0	0	0	0	0	0	-0.97	-1	0	0	0	0	0	0
4/24/2024 10:38	49804	UNIV_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
4/24/2024 10:38	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 10:38	40302	TAMA_T3	24	16	-8	0.35	0.37	0.02	0.28	0.25	0	0	0	0	0	0
4/24/2024 10:38	49803	UNIV_T1	0	2	2	0	0.55	0.55	-1.14	-1.14	0	0	0	0	0	0
4/24/2024 10:38	40303	TAMA_T3	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
4/24/2024 10:38	15001	BLMO_T1	4	5	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/24/2024 10:38	42701	AUGU_T1	1	4	3	0.3	0.68	0.38	0	0	4	4	0	3600	3600	0
4/24/2024 10:39	16301	ALPA_T1	19	41	22	0.28	0.19	-0.09	-0.44	-0.43	0	0	0	0	0	0
4/24/2024 10:39	45902	AUBU_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/24/2024 10:39	67505	WEWI_T1	3	2	-1	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
4/24/2024 10:39	67501	WEWI_T1	4	4	0	0.68	0.35	-0.33	-0.58	-0.51	0	0	0	0	0	0
4/24/2024 10:39	45901	AUBU_T1	0	0	0	0	0	0	0	1.71	0	0	0	0	0	0
4/24/2024 10:39	42701	AUGU_T1	1	4	3	0.3	0.68	0.38	0	0	2	2	0	1800	1800	0
4/24/2024 10:40	62105	ELAN_T1	4	4	0	0.2	0.53	0.33	0	0	0	0	0	0	0	0
4/24/2024 10:40	16301	ALPA_T1	19	41	22	0.28	0.19	-0.09	-0.44	-0.43	0	0	0	0	0	0
4/24/2024 10:40	42701	AUGU_T1	1	4	3	0.3	0.68	0.38	0	0	2	2	0	1800	1800	0
4/24/2024 10:40	62102	ELAN_T1	0	0	0	0	0	0	0.67	0.62	0	0	0	0	0	0
4/24/2024 10:41	62105	ELAN_T1	4	4	0	0.2	0.53	0.33	0	0	0	0	0	0	0	0
4/24/2024 10:41	62102	ELAN_T1	0	0	0	0	0	0	0.67	0.62	0	0	0	0	0	0
4/24/2024 10:41	42701	AUGU_T1	1	4	3	0.3	0.68	0.38	0	0	2	2	0	1800	1800	0
4/24/2024 10:42	51108	CARL_T1	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
4/24/2024 10:42	15001	BLMO_T1	4	5	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/24/2024 10:42	51102	CARL_T1	0	126	126	0	0.35	0.35	0	0	0	0	0	0	0	0
4/24/2024 10:42	51107	CARL_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
4/24/2024 10:42	51101	CARL_T1	0	6	6	0	0.22	0.22	0	0	0	0	0	0	0	0
4/24/2024 10:42	51109	CARL_T1	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
4/24/2024 10:43	23902	EFMO_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
4/24/2024 10:43	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 10:44	54502	ENOL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/24/2024 10:44	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/24/2024 10:44	54501	ENOL_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
4/24/2024 10:44	54504	ENOL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/24/2024 10:46	64702	LITI_T2	0	0	0	0	0	0	-0.62	-0.52	0	0	0	0	0	0
4/24/2024 10:46	24902	WHHA_T1	1	16	15	1	0.76	-0.24	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/24/2024 10:46	13303	ORVI_T1	3	4	1	0.27	0.23	-0.04	-0.24	-0.21	0	0	0	0	0	0
4/24/2024 10:46	24901	WHHA_T1	1	4	3	1	0.35	-0.65	0	0	0	0	0	0	0	0
4/24/2024 10:47	64904	MILL_T1	0	1	1	0	0.1	0.1	0.45	0.44	0	0	0	0	0	0
4/24/2024 10:47	64702	LITI_T2	0	0	0	0	0	0	-0.62	-0.52	0	0	0	0	0	0
4/24/2024 10:47	64901	MILL_T1	15	6	-9	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/24/2024 10:48	42201	SHEN_T2	0	0	0	0	0	0	-0.19	-0.15	1	1	0	600	600	0
4/24/2024 10:48	43202	MVIL_T2	102	104	2	0.79	0.86	0.07	0	0	0	0	0	0	0	0
4/24/2024 10:48	43201	MVIL_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
4/24/2024 10:48	64702	LITI_T2	0	0	0	0	0	0	-0.62	-0.52	0	0	0	0	0	0
4/24/2024 10:49	43801	SWIL_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
4/24/2024 10:49	43802	SWIL_T1	0	0	0	0	0	0	-0.35	-0.36	1	1	0	600	600	0
4/24/2024 10:50	13701	SCHN_T2	0	52	52	0	0.3	0.3	-0.07	-0.06	1	1	0	600	600	0
4/24/2024 10:50	13704	SCHN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/24/2024 10:51	47403	PENS_T1	1	8	7	1.9	0.98	-0.92	0	0	0	0	0	0	0	0
4/24/2024 10:51	47402	PENS_T1	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/24/2024 10:51	15103	UPHA_T2	3	3	0	0.53	0.53	0	0.36	0.39	0	0	0	0	0	0
4/24/2024 10:51	44601	SALE_T2	0	0	0	0	0	0	0.44	0.79	1	1	0	600	600	0
4/24/2024 10:51	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/24/2024 10:51	43302	WATS_T2	3	4	1	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/24/2024 10:51	47401	PENS_T1	4	1	-3	0.7	0.4	-0.3	1.13	0.92	0	0	0	0	0	0
4/24/2024 10:51	43301	WATS_T2	1	3	2	0.2	0.27	0.07	0	-0.79	1	1	0	900	900	0
4/24/2024 10:52	43105	SMIL_T2	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
4/24/2024 10:52	43101	SMIL_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
4/24/2024 10:52	58401	MORO_T1	0	1	1	0	0.1	0.1	-1.1	-1.09	1	1	0	600	600	0
4/24/2024 10:52	43301	WATS_T2	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/24/2024 10:52	43102	SMIL_T2	4	5	1	0.25	0.16	-0.09	0	0	0	0	0	0	0	0
4/24/2024 10:52	43302	WATS_T2	3	4	1	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/24/2024 10:52	43304	WATS_T2	0	0	0	0	0	0	0	-0.44	0	0	0	0	0	0
4/24/2024 10:52	43104	SMIL_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
4/24/2024 10:52	43103	SMIL_T2	10	16	6	0.45	0.52	0.07	-1	-0.93	0	0	0	0	0	0
4/24/2024 10:53	44601	SALE_T2	0	0	0	0	0	0	0.44	0.79	1	1	0	600	600	0
4/24/2024 10:53	41601	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 10:53	41602	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/24/2024 10:53	46002	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 10:53	46004	BERW_T2	0	4	4	0	0.4	0.4	-0.01	-0.04	0	0	0	0	0	0
4/24/2024 10:54	54601	SUMM_T2	13	14	1	0.62	0.87	0.25	0	0	0	0	0	0	0	0
4/24/2024 10:54	54603	SUMM_T2	0	1	1	0	0.1	0.1	0	0	1	1	0	900	900	0
4/24/2024 10:54	43301	WATS_T2	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/24/2024 10:54	43304	WATS_T2	0	0	0	0	0	0	-3.5	-3.29	0	0	0	0	0	0
4/24/2024 10:54	43302	WATS_T2	3	4	1	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/24/2024 10:54	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 10:56	41602	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/24/2024 10:56	41601	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 10:57	41802	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 10:57	41602	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/24/2024 10:57	41801	GOCI_T2	249	214	-35	0.59	0.61	0.02	0	0	0	0	0	0	0	0
4/24/2024 10:57	41601	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 10:58	41802	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 10:58	41801	GOCI_T2	249	214	-35	0.59	0.61	0.02	0	0	0	0	0	0	0	0
4/24/2024 10:59	67702	WERN_T2	1	2	1	0.2	0.6	0.4	-0.05	-0.05	0	0	0	0	0	0
4/24/2024 10:59	67703	WERN_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
4/24/2024 11:00	41801	GOCI_T2	198	210	12	0.51	0.61	0.1	0	0	0	0	0	0	0	0
4/24/2024 11:00	45902	AUBU_T1	1	1	0	0.8	0.9	0.1	-0.52	-0.48	1	1	0	600	600	0
4/24/2024 11:00	64902	MILL_T2	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
4/24/2024 11:00	41802	GOCI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 11:01	67605	WARW_T1	12	15	3	0.62	0.59	-0.03	-0.87	-0.91	0	0	0	0	0	0
4/24/2024 11:01	67603	WARW_T1	1	2	1	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
4/24/2024 11:01	64902	MILL_T2	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
4/24/2024 11:02	65503	MOJO_T2	0	4	4	0	0.23	0.23	-1.19	-1.19	1	1	0	900	900	0
4/24/2024 11:02	24902	WHHA_T1	9	16	7	0.81	0.79	-0.02	0	0	0	0	0	0	0	0
4/24/2024 11:02	24901	WHHA_T1	1	10	9	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/24/2024 11:03	64802	MONE_T2	10	33	23	0.45	0.32	-0.13	0.21	0.28	0	0	0	0	0	0
4/24/2024 11:03	46301	ROHR_T1	70	136	66	0.23	0.26	0.03	0	0	0	0	0	0	0	0
4/24/2024 11:03	46302	ROHR_T1	10	9	-1	1.38	1.41	0.03	0.1	0.11	0	0	0	0	0	0
4/24/2024 11:03	64801	MONE_T2	2	4	2	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/24/2024 11:04	54203	PENN_T1	18	21	3	1.14	1.21	0.07	0.73	0.78	0	0	0	0	0	0
4/24/2024 11:04	54201	PENN_T1	11	15	4	1.23	1.27	0.04	0	0	0	0	0	0	0	0
4/24/2024 11:05	46301	ROHR_T1	70	136	66	0.23	0.26	0.03	0	0	0	0	0	0	0	0
4/24/2024 11:05	46302	ROHR_T1	10	9	-1	1.38	1.41	0.03	0.1	0.11	0	0	0	0	0	0
4/24/2024 11:06	43105	SMIL_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
4/24/2024 11:06	14603	SWHI_T1	4	6	2	0.23	0.6	0.37	-1.08	-1.08	1	1	0	600	600	0
4/24/2024 11:06	43101	SMIL_T2	0	3	3	0	1.1	1.1	0	0	0	0	0	0	0	0
4/24/2024 11:06	14602	SWHI_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/24/2024 11:06	14601	SWHI_T1	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
4/24/2024 11:06	43102	SMIL_T2	2	6	4	0.15	0.25	0.1	0	0	0	0	0	0	0	0
4/24/2024 11:06	46301	ROHR_T1	70	136	66	0.23	0.26	0.03	0.14	0.17	0	0	0	0	0	0
4/24/2024 11:06	46302	ROHR_T1	10	9	-1	1.38	1.41	0.03	0	0	0	0	0	0	0	0
4/24/2024 11:06	43108	SMIL_T2	0	0	0	0	0	0	0.47	0.5	0	0	0	0	0	0
4/24/2024 11:06	43104	SMIL_T2	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/24/2024 11:06	43103	SMIL_T2	12	15	3	0.48	0.54	0.06	0	0	0	0	0	0	0	0
4/24/2024 11:07	14602	SWHI_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/24/2024 11:07	66703	STRA_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
4/24/2024 11:07	14603	SWHI_T1	4	6	2	0.23	0.6	0.37	-1.08	-1.08	1	1	0	600	600	0
4/24/2024 11:07	14601	SWHI_T1	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
4/24/2024 11:07	66701	STRA_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
4/24/2024 11:08	43102	SMIL_T2	2	6	4	0.15	0.25	0.1	-1.74	-1.68	2	2	0	1200	1200	0
4/24/2024 11:08	14603	SWHI_T1	4	6	2	0.23	0.6	0.37	-1.08	-1.08	1	1	0	600	600	0
4/24/2024 11:08	43103	SMIL_T2	12	15	3	0.48	0.54	0.06	0	0	0	0	0	0	0	0
4/24/2024 11:08	43104	SMIL_T2	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/24/2024 11:08	43101	SMIL_T2	0	3	3	0	1.1	1.1	0	0	0	0	0	0	0	0
4/24/2024 11:08	43105	SMIL_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
4/24/2024 11:08	42701	AUGU_T1	4	25	21	0.63	0.4	-0.23	0	0	2	2	0	1800	1800	0
4/24/2024 11:08	14601	SWHI_T1	1	3	2	0.1	0.37	0.27	-2	-2.02	0	0	0	0	0	0
4/24/2024 11:08	14602	SWHI_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/24/2024 11:09	10801	CHHI_T1	3	6	3	0.47	0.52	0.05	-0.82	-0.74	1	1	0	900	900	0
4/24/2024 11:10	54504	ENOL_T2	0	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0
4/24/2024 11:10	57003	WHHI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/24/2024 11:10	57006	WHHI_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
4/24/2024 11:10	57004	WHHI_T2	0	0	0	0	0	0	-0.53	-0.49	0	0	0	0	0	0
4/24/2024 11:10	10801	CHHI_T1	3	6	3	0.47	0.52	0.05	-0.82	-0.74	1	1	0	900	900	0
4/24/2024 11:10	22001	BOHE_T1	1	0	-1	0.2	0	-0.2	-0.49	-0.48	1	1	0	600	600	0
4/24/2024 11:10	14602	SWHI_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/24/2024 11:10	54503	ENOL_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
4/24/2024 11:10	54501	ENOL_T2	0	5	5	0	0.58	0.58	0	0	0	0	0	0	0	0
4/24/2024 11:10	14601	SWHI_T1	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
4/24/2024 11:10	22003	BOHE_T1	5	3	-2	0.68	0.77	0.09	0	0	0	0	0	0	0	0
4/24/2024 11:10	15001	BLMO_T1	5	4	-1	0.4	0.48	0.08	0	0	0	0	0	0	0	0
4/24/2024 11:10	54502	ENOL_T2	1	4	3	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
4/24/2024 11:10	54505	ENOL_T2	1	3	2	0.9	0.77	-0.13	-1.39	-1.38	1	1	0	600	600	0
4/24/2024 11:10	14603	SWHI_T1	4	6	2	0.23	0.6	0.37	-1.08	-1.07	1	1	0	600	600	0
4/24/2024 11:11	63803	HEMP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/24/2024 11:11	63802	HEMP_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
4/24/2024 11:11	67605	WARW_T1	12	15	3	0.62	0.59	-0.03	-0.91	-0.9	0	0	0	0	0	0
4/24/2024 11:11	60102	COCA_T1	0	0	0	0	0	0	-0.5	-0.61	2	2	0	1200	1200	0
4/24/2024 11:11	63804	HEMP_T1	1	2	1	7	6.7	-0.3	0	0	0	0	0	0	0	0
4/24/2024 11:11	63801	HEMP_T1	4	10	6	0.4	0.4	0	0	0	0	0	0	0	0	0
4/24/2024 11:11	67603	WARW_T1	1	2	1	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
4/24/2024 11:11	53902	HALI_T2	2	4	2	2.85	1.65	-1.2	0	0	0	0	0	0	0	0
4/24/2024 11:11	22001	BOHE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 11:11	61506	EPET_T2	0	0	0	0	0	0	-0.84	-0.77	1	1	0	900	900	0
4/24/2024 11:11	60101	COCA_T1	3	6	3	0.3	0.32	0.02	0	0	0	0	0	0	0	0
4/24/2024 11:11	53901	HALI_T2	1	1	0	0.7	0.8	0.1	-0.49	-0.46	0	0	0	0	0	0
4/24/2024 11:11	22003	BOHE_T1	5	3	-2	0.68	0.77	0.09	0	0	0	0	0	0	0	0
4/24/2024 11:11	53903	HALI_T2	6	6	0	0.53	0.58	0.05	0	0	0	0	0	0	0	0
4/24/2024 11:11	67604	WARW_T1	0	0	0	0	0	0	0.87	0.76	0	0	0	0	0	0
4/24/2024 11:12	54504	ENOL_T2	0	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0
4/24/2024 11:12	54505	ENOL_T2	1	3	2	0.9	0.77	-0.13	0	0	0	0	0	0	0	0
4/24/2024 11:12	63803	HEMP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/24/2024 11:12	63804	HEMP_T1	1	2	1	7	6.7	-0.3	0.04	-0.02	0	0	0	0	0	0
4/24/2024 11:12	63801	HEMP_T1	4	10	6	0.4	0.4	0	0	0	0	0	0	0	0	0
4/24/2024 11:12	54503	ENOL_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
4/24/2024 11:12	54501	ENOL_T2	0	5	5	0	0.58	0.58	0.07	0.06	0	0	0	0	0	0
4/24/2024 11:12	54502	ENOL_T2	1	4	3	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
4/24/2024 11:13	13701	SCHN_T2	0	5	5	0	0.22	0.22	0	0	0	0	0	0	0	0
4/24/2024 11:13	10805	CHHI_T2	2	1	-1	4	7.7	3.7	-0.72	-0.56	0	0	0	0	0	0
4/24/2024 11:13	41301	FISH_T1	2	4	2	1.95	1.58	-0.37	-0.12	0	0	0	0	0	0	0
4/24/2024 11:13	13704	SCHN_T2	1	1	0	0.2	0.5	0.3	-0.32	-0.35	0	0	0	0	0	0
4/24/2024 11:14	63803	HEMP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/24/2024 11:14	63802	HEMP_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
4/24/2024 11:14	63801	HEMP_T1	4	10	6	0.4	0.4	0	0	0	0	0	0	0	0	0
4/24/2024 11:14	63804	HEMP_T1	1	2	1	7	6.7	-0.3	0	0	0	0	0	0	0	0
4/24/2024 11:15	67603	WARW_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/24/2024 11:15	67605	WARW_T1	13	15	2	0.49	0.59	0.1	-0.91	-0.9	0	0	0	0	0	0
4/24/2024 11:15	41802	GOCI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 11:15	47001	HUGH_T2	1	2	1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
4/24/2024 11:15	41801	GOCI_T2	209	98	-111	0.61	0.29	-0.32	0	0	0	0	0	0	0	0
4/24/2024 11:15	47002	HUGH_T2	1	4	3	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/24/2024 11:16	47002	HUGH_T2	1	4	3	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/24/2024 11:16	64204	KINZ_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/24/2024 11:16	47001	HUGH_T2	1	2	1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
4/24/2024 11:16	64201	KINZ_T1	0	0	0	0	0	0	-0.08	0.23	3	3	0	1500	1500	0
4/24/2024 11:16	64202	KINZ_T1	3	3	0	0.47	0.6	0.13	0	0	0	0	0	0	0	0
4/24/2024 11:18	45702	LIND_T2	1	14	13	1	0.29	-0.71	-0.54	-0.56	0	0	0	0	0	0
4/24/2024 11:19	67201	TEHI_T1	1	3	2	0.1	0.27	0.17	0.64	0.68	1	1	0	900	900	0
4/24/2024 11:19	45702	LIND_T2	1	14	13	1	0.29	-0.71	-0.54	-0.56	0	0	0	0	0	0
4/24/2024 11:20	59101	WALK_T2	0	0	0	0	0	0	1.87	1.74	0	0	0	0	0	0
4/24/2024 11:20	59102	WALK_T2	0	5	5	0	0.5	0.5	0	0	0	0	0	0	0	0
4/24/2024 11:21	13606	RICH_T2	2	2	0	3.95	3.95	0	0.99	3.39	0	0	0	0	0	0
4/24/2024 11:23	54601	SUMM_T2	13	14	1	0.87	0.94	0.07	-1.86	-1.89	2	2	0	2100	2100	0
4/24/2024 11:23	20402	ASHF_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/24/2024 11:23	20403	ASHF_T2	9	12	3	0.32	0.41	0.09	0.11	1.11	0	0	0	0	0	0
4/24/2024 11:23	59102	WALK_T2	0	5	5	0	0.5	0.5	0	0	0	0	0	0	0	0
4/24/2024 11:23	67505	WEWI_T1	1	0	-1	0.1	0	-0.1	0.56	0.51	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/24/2024 11:23	59101	WALK_T2	0	0	0	0	0	0	1.74	1.76	0	0	0	0	0	0
4/24/2024 11:23	54602	SUMM_T2	1	13	12	0.1	0.23	0.13	0	0	0	0	0	0	0	0
4/24/2024 11:23	54603	SUMM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 11:23	67501	WEWI_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/24/2024 11:24	46001	BERW_T1	0	0	0	0	0	0	0.95	0.99	0	0	0	0	0	0
4/24/2024 11:24	46005	BERW_T1	2	2	0	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
4/24/2024 11:24	59102	WALK_T2	0	5	5	0	0.5	0.5	0	0	0	0	0	0	0	0
4/24/2024 11:24	59101	WALK_T2	0	0	0	0	0	0	1.74	1.76	0	0	0	0	0	0
4/24/2024 11:25	46001	BERW_T1	0	0	0	0	0	0	0.95	0.99	0	0	0	0	0	0
4/24/2024 11:25	46005	BERW_T1	2	2	0	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
4/24/2024 11:26	54603	SUMM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 11:26	43104	SMIL_T2	2	1	-1	0.45	0.7	0.25	0	0	0	0	0	0	0	0
4/24/2024 11:26	43105	SMIL_T2	2	2	0	0.55	0.35	-0.2	0	0	0	0	0	0	0	0
4/24/2024 11:26	41802	GOCI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 11:26	20402	ASHF_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/24/2024 11:26	43101	SMIL_T2	1	2	1	0.7	1.3	0.6	-0.84	-0.86	0	0	0	0	0	0
4/24/2024 11:26	54602	SUMM_T2	1	13	12	0.1	0.23	0.13	0	0	0	0	0	0	0	0
4/24/2024 11:26	20403	ASHF_T2	9	12	3	0.32	0.41	0.09	0.11	1.11	0	0	0	0	0	0
4/24/2024 11:26	43103	SMIL_T2	14	15	1	0.54	0.49	-0.05	0	0	0	0	0	0	0	0
4/24/2024 11:26	41801	GOCI_T2	209	98	-111	0.61	0.29	-0.32	0	0	0	0	0	0	0	0
4/24/2024 11:26	54601	SUMM_T2	13	14	1	0.87	0.94	0.07	-1.86	-1.89	2	2	0	2100	2100	0
4/24/2024 11:26	67502	WEWI_T2	4	17	13	0.5	0.36	-0.14	-0.56	-0.69	0	0	0	0	0	0
4/24/2024 11:26	43102	SMIL_T2	4	6	2	0.15	0.25	0.1	0	0	0	0	0	0	0	0
4/24/2024 11:27	54502	ENOL_T2	1	4	3	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
4/24/2024 11:27	45902	AUBU_T1	1	1	0	0.9	1	0.1	-0.5	-0.49	1	1	0	600	600	0
4/24/2024 11:27	16102	BING_T2	1	5	4	0.1	1.12	1.02	-0.64	-0.79	1	1	0	1200	1200	0
4/24/2024 11:27	54505	ENOL_T2	2	3	1	0.6	0.77	0.17	0	0	0	0	0	0	0	0
4/24/2024 11:27	16103	BING_T2	1	2	1	1.5	0.8	-0.7	0	0	0	0	0	0	0	0
4/24/2024 11:27	54504	ENOL_T2	1	2	1	0.1	0.9	0.8	0	0	0	0	0	0	0	0
4/24/2024 11:27	54501	ENOL_T2	4	4	0	0.18	0.7	0.52	0	0	0	0	0	0	0	0
4/24/2024 11:27	54503	ENOL_T2	0	3	3	0	0.5	0.5	-1.36	-1.29	1	1	0	600	600	0
4/24/2024 11:27	61103	BERK_T5	3	6	3	0.27	0.18	-0.09	0.04	-0.01	0	0	0	0	0	0
4/24/2024 11:27	61102	BERK_T5	1	1	0	0.5	0.2	-0.3	1.47	2.14	2	2	0	600	600	0
4/24/2024 11:27	61101	BERK_T5	3	5	2	0.27	0.46	0.19	0	0	0	0	0	0	0	0
4/24/2024 11:28	54501	ENOL_T2	4	4	0	0.18	0.7	0.52	0	0	0	0	0	0	0	0
4/24/2024 11:28	54505	ENOL_T2	2	3	1	0.6	0.77	0.17	0	0	0	0	0	0	0	0
4/24/2024 11:28	45501	DERR_T2	2	2	0	0.2	0.8	0.6	0.72	0.67	2	2	0	1800	1800	0
4/24/2024 11:28	54504	ENOL_T2	1	2	1	0.1	0.9	0.8	0	0	0	0	0	0	0	0
4/24/2024 11:28	61102	BERK_T5	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/24/2024 11:28	54503	ENOL_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
4/24/2024 11:28	54502	ENOL_T2	1	4	3	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
4/24/2024 11:28	54506	ENOL_T2	0	0	0	0	0	0	0.54	0.61	1	1	0	600	600	0
4/24/2024 11:28	17401	FOHI_T1	0	1	1	0	0.2	0.2	-1.03	-1.01	0	0	0	0	0	0
4/24/2024 11:28	25402	LAHA_T2	0	1	1	0	0.4	0.4	-0.31	-0.34	0	0	0	0	0	0
4/24/2024 11:28	61101	BERK_T5	3	5	2	0.27	0.46	0.19	0	0	0	0	0	0	0	0
4/24/2024 11:28	61103	BERK_T5	3	6	3	0.27	0.18	-0.09	0.04	-0.01	0	0	0	0	0	0
4/24/2024 11:29	54503	ENOL_T2	0	3	3	0	0.5	0.5	-1.36	-1.29	1	1	0	600	600	0
4/24/2024 11:29	54504	ENOL_T2	1	2	1	0.1	0.9	0.8	0	0	0	0	0	0	0	0
4/24/2024 11:29	54501	ENOL_T2	4	4	0	0.18	0.7	0.52	0	0	0	0	0	0	0	0
4/24/2024 11:29	61103	BERK_T5	3	6	3	0.27	0.18	-0.09	0.04	-0.01	0	0	0	0	0	0
4/24/2024 11:29	46001	BERW_T1	0	0	0	0	0	0	1.9	1.98	0	0	0	0	0	0
4/24/2024 11:29	46005	BERW_T1	2	2	0	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
4/24/2024 11:29	61102	BERK_T5	1	1	0	0.5	0.2	-0.3	0.73	1.07	1	1	0	300	300	0
4/24/2024 11:29	28403	HART_T2	0	1	1	0	0.1	0.1	-0.93	-0.87	1	1	0	900	900	0
4/24/2024 11:29	54502	ENOL_T2	1	4	3	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
4/24/2024 11:29	54505	ENOL_T2	2	3	1	0.6	0.77	0.17	0	0	0	0	0	0	0	0
4/24/2024 11:29	61101	BERK_T5	3	5	2	0.27	0.46	0.19	0	0	0	0	0	0	0	0
4/24/2024 11:30	61103	BERK_T5	6	1	-5	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
4/24/2024 11:30	11405	FARM_T1	0	4	4	0	0.2	0.2	-1.12	-1.08	1	1	0	1200	1200	0
4/24/2024 11:30	54505	ENOL_T2	3	2	-1	0.77	0.8	0.03	-2.76	-2.86	2	2	0	1200	1200	0
4/24/2024 11:30	55105	WERT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 11:30	61102	BERK_T5	1	0	-1	0.2	0	-0.2	0.73	1.07	1	1	0	300	300	0
4/24/2024 11:30	46802	HEPB_T1	2	3	1	0.75	0.77	0.02	-0.39	-0.35	0	0	0	0	0	0
4/24/2024 11:30	54502	ENOL_T2	4	3	-1	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
4/24/2024 11:30	54503	ENOL_T2	3	0	-3	0.5	0	-0.5	-1.36	-1.29	1	1	0	600	600	0
4/24/2024 11:30	67605	WARW_T1	15	14	-1	0.59	0.44	-0.15	-0.9	-0.89	0	0	0	0	0	0
4/24/2024 11:30	54504	ENOL_T2	2	1	-1	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/24/2024 11:30	11404	FARM_T1	1	0	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/24/2024 11:30	11402	FARM_T1	3	2	-1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
4/24/2024 11:30	61101	BERK_T5	5	0	-5	0.46	0	-0.46	0	0	0	0	0	0	0	0
4/24/2024 11:30	54501	ENOL_T2	4	3	-1	0.7	0.37	-0.33	0	0	0	0	0	0	0	0
4/24/2024 11:31	64201	KINZ_T1	0	0	0	0	0	0	0.23	0.43	3	3	0	1500	1500	0
4/24/2024 11:31	12505	MITR_T2	1	0	-1	0.2	0	-0.2	1.68	2.15	0	0	0	0	0	0
4/24/2024 11:31	57301	MOAL_T2	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
4/24/2024 11:31	57303	MOAL_T2	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
4/24/2024 11:31	12502	MITR_T2	1	1	0	7	7.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 11:31	64202	KINZ_T1	3	3	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/24/2024 11:31	57304	MOAL_T2	64	56	-8	0.48	0.32	-0.16	0	0	0	0	0	0	0	0
4/24/2024 11:31	12501	MITR_T2	1	1	0	2.1	5	2.9	0	0	0	0	0	0	0	0
4/24/2024 11:31	57306	MOAL_T2	3	2	-1	0.37	0.55	0.18	0	0	0	0	0	0	0	0
4/24/2024 11:31	64204	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/24/2024 11:32	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 11:32	45902	AUBU_T1	1	1	0	0.9	1	0.1	-0.5	-0.49	1	1	0	600	600	0
4/24/2024 11:32	64904	MILL_T1	0	1	1	0	0.1	0.1	0.5	0.45	0	0	0	0	0	0
4/24/2024 11:32	64901	MILL_T1	11	9	-2	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
4/24/2024 11:33	46803	HEPB_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/24/2024 11:33	57303	MOAL_T2	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
4/24/2024 11:33	57304	MOAL_T2	64	56	-8	0.48	0.32	-0.16	-0.68	-0.69	0	0	0	0	0	0
4/24/2024 11:33	46801	HEPB_T2	2	2	0	0.2	0.4	0.2	0.59	0.57	0	0	0	0	0	0
4/24/2024 11:33	57306	MOAL_T2	3	2	-1	0.37	0.55	0.18	0	0	0	0	0	0	0	0
4/24/2024 11:34	52502	PROG_T2	5	2	-3	0.56	0.85	0.29	-0.73	-0.76	1	1	0	900	900	0
4/24/2024 11:34	12807	MICK_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/24/2024 11:34	12801	MICK_T1	0	0	0	0	0	0	-0.04	-0.06	1	1	0	600	600	0
4/24/2024 11:34	58402	MORO_T1	0	0	0	0	0	0	-0.34	-0.39	2	2	0	1500	1500	0
4/24/2024 11:35	66902	SHIL_T2	3	2	-1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/24/2024 11:35	66903	SHIL_T2	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
4/24/2024 11:35	42002	MNVL_T2	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0	0
4/24/2024 11:35	42001	MNVL_T2	0	10	10	0	0.54	0.54	-0.01	-0.04	0	0	0	0	0	0
4/24/2024 11:35	67605	WARW_T1	15	14	-1	0.59	0.44	-0.15	-0.9	-0.89	0	0	0	0	0	0
4/24/2024 11:35	52502	PROG_T2	5	2	-3	0.56	0.85	0.29	-0.73	-0.76	1	1	0	900	900	0
4/24/2024 11:36	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 11:36	40302	TAMA_T3	8	9	1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
4/24/2024 11:36	40303	TAMA_T3	2	2	0	0.45	0.5	0.05	2.19	2.11	0	0	0	0	0	0
4/24/2024 11:36	13704	SCHN_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/24/2024 11:36	13701	SCHN_T2	5	3	-2	0.22	0.27	0.05	0.02	-0.03	1	1	0	600	600	0
4/24/2024 11:37	20403	ASHF_T2	5	15	10	0.44	0.45	0.01	0.11	1.11	0	0	0	0	0	0
4/24/2024 11:37	20402	ASHF_T2	1	5	4	0.1	0.48	0.38	0	0	0	0	0	0	0	0
4/24/2024 11:37	42802	SELI_T1	0	0	0	0	0	0	-0.72	-0.76	1	1	0	900	900	0
4/24/2024 11:38	43103	SMIL_T2	13	17	4	0.53	0.64	0.11	0	0	0	0	0	0	0	0
4/24/2024 11:38	66902	SHIL_T2	3	2	-1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/24/2024 11:38	67402	WAKE_T2	0	0	0	0	0	0	0.37	0.35	1	1	0	600	600	0
4/24/2024 11:38	43105	SMIL_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/24/2024 11:38	43101	SMIL_T2	2	2	0	1.3	0.95	-0.35	0	0	0	0	0	0	0	0
4/24/2024 11:38	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 11:38	67401	WAKE_T2	9	6	-3	0.49	0.62	0.13	0	0	0	0	0	0	0	0
4/24/2024 11:38	16302	ALPA_T2	5	5	0	0.32	0.38	0.06	0.74	0.85	0	0	0	0	0	0
4/24/2024 11:38	60801	BUCK_T1	0	0	0	0	0	0	0.16	0.06	0	0	0	0	0	0
4/24/2024 11:38	43104	SMIL_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
4/24/2024 11:38	66903	SHIL_T2	0	0	0	0	0	0	-1.93	-1.88	0	0	0	0	0	0
4/24/2024 11:38	43102	SMIL_T2	6	6	0	0.25	0.22	-0.03	-0.83	-0.85	1	1	0	600	600	0
4/24/2024 11:39	43301	WATS_T2	5	11	6	0.4	0.32	-0.08	-0.74	0.24	1	1	0	900	900	0
4/24/2024 11:39	20403	ASHF_T2	5	15	10	0.44	0.45	0.01	0	0	0	0	0	0	0	0
4/24/2024 11:39	43304	WATS_T2	3	2	-1	0.27	0.6	0.33	-0.4	-0.84	0	0	0	0	0	0
4/24/2024 11:39	20402	ASHF_T2	1	5	4	0.1	0.48	0.38	0	0	0	0	0	0	0	0
4/24/2024 11:39	20401	ASHF_T2	0	0	0	0	0	0	-0.32	-0.3	0	0	0	0	0	0
4/24/2024 11:39	43302	WATS_T2	1	4	3	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/24/2024 11:39	66902	SHIL_T2	3	2	-1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/24/2024 11:39	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 11:39	66903	SHIL_T2	0	0	0	0	0	0	-1.93	-1.88	0	0	0	0	0	0
4/24/2024 11:40	43302	WATS_T2	1	4	3	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/24/2024 11:40	43301	WATS_T2	5	11	6	0.4	0.32	-0.08	-0.74	0.24	1	0	-1	900	0	-900
4/24/2024 11:40	61101	BERK_T5	5	0	-5	0.46	0	-0.46	-0.74	-0.71	0	0	0	0	0	0
4/24/2024 11:40	61103	BERK_T5	6	1	-5	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
4/24/2024 11:40	43304	WATS_T2	3	2	-1	0.27	0.6	0.33	0	0	0	0	0	0	0	0
4/24/2024 11:40	20403	ASHF_T2	5	15	10	0.44	0.45	0.01	1.11	1.12	0	0	0	0	0	0
4/24/2024 11:40	61102	BERK_T5	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 11:40	20402	ASHF_T2	1	5	4	0.1	0.48	0.38	0	0	0	0	0	0	0	0
4/24/2024 11:41	43304	WATS_T2	3	2	-1	0.27	0.6	0.33	-0.4	-0.84	0	0	0	0	0	0
4/24/2024 11:41	20403	ASHF_T2	5	15	10	0.44	0.45	0.01	1.11	1.12	0	0	0	0	0	0
4/24/2024 11:41	20402	ASHF_T2	1	5	4	0.1	0.48	0.38	0	0	0	0	0	0	0	0
4/24/2024 11:41	43302	WATS_T2	1	4	3	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/24/2024 11:41	67401	WAKE_T2	9	6	-3	0.49	0.62	0.13	-1.16	-1.14	0	0	0	0	0	0
4/24/2024 11:41	43301	WATS_T2	5	11	6	0.4	0.32	-0.08	-0.74	0.24	1	0	-1	900	0	-900
4/24/2024 11:42	61103	BERK_T5	6	1	-5	0.18	0.1	-0.08	-0.01	0.03	0	0	0	0	0	0
4/24/2024 11:42	61101	BERK_T5	5	0	-5	0.46	0	-0.46	0	0	0	0	0	0	0	0
4/24/2024 11:42	60801	BUCK_T1	0	0	0	0	0	0	0.16	0.06	0	0	0	0	0	0
4/24/2024 11:42	24702	FLND_T2	3	3	0	1.1	0.93	-0.17	0.2	0.3	1	1	0	1200	1200	0
4/24/2024 11:42	61102	BERK_T5	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 11:43	61102	BERK_T5	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 11:43	46803	HEPB_T2	0	1	1	0	0.5	0.5	0.38	0.42	0	0	0	0	0	0
4/24/2024 11:43	61103	BERK_T5	6	1	-5	0.18	0.1	-0.08	-0.01	0.03	0	0	0	0	0	0
4/24/2024 11:43	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 11:43	46801	HEPB_T2	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/24/2024 11:43	10805	CHHI_T2	1	1	0	7.9	7.9	0	-0.51	-0.6	0	0	0	0	0	0
4/24/2024 11:43	41602	CLEV_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
4/24/2024 11:43	61101	BERK_T5	5	0	-5	0.46	0	-0.46	-0.74	-0.71	0	0	0	0	0	0
4/24/2024 11:44	61103	BERK_T5	6	1	-5	0.18	0.1	-0.08	-0.01	0.03	0	0	0	0	0	0
4/24/2024 11:44	61102	BERK_T5	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 11:44	40701	FFLD_T1	75	74	-1	0.54	0.62	0.08	0	0	0	0	0	0	0	0
4/24/2024 11:44	46801	HEPB_T2	2	2	0	0.2	0.4	0.2	0.57	0.57	0	0	0	0	0	0
4/24/2024 11:44	41802	GOCI_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 11:44	61101	BERK_T5	5	0	-5	0.46	0	-0.46	0	0	0	0	0	0	0	0
4/24/2024 11:44	46803	HEPB_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/24/2024 11:44	40702	FFLD_T1	131	126	-5	0.36	0.35	-0.01	-0.89	-0.43	1	1	0	1200	1200	0
4/24/2024 11:44	41801	GOCI_T2	98	257	159	0.29	0.46	0.17	0	0	0	0	0	0	0	0
4/24/2024 11:44	40703	FFLD_T1	4	4	0	0.63	0.65	0.02	0	0	0	0	0	0	0	0
4/24/2024 11:45	53902	HALI_T2	1	3	2	5.3	2.1	-3.2	0	0	0	0	0	0	0	0
4/24/2024 11:45	53901	HALI_T2	3	4	1	0.53	0.5	-0.03	-0.45	-0.45	0	0	0	0	0	0
4/24/2024 11:45	53903	HALI_T2	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
4/24/2024 11:46	54502	ENOL_T2	3	1	-2	0.33	0.7	0.37	0	0	0	0	0	0	0	0
4/24/2024 11:46	11201	ELHE_T2	2	1	-1	0.15	0.5	0.35	0	0	0	0	0	0	0	0
4/24/2024 11:46	54501	ENOL_T2	3	1	-2	0.37	0.1	-0.27	0	0	0	0	0	0	0	0
4/24/2024 11:46	54504	ENOL_T2	1	0	-1	0.8	0	-0.8	-1.11	-1.06	1	1	0	600	600	0
4/24/2024 11:46	11202	ELHE_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
4/24/2024 11:46	55105	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 11:46	54505	ENOL_T2	2	1	-1	0.8	1	0.2	0	0	0	0	0	0	0	0
4/24/2024 11:47	60801	BUCK_T1	0	0	0	0	0	0	0.16	0.06	0	0	0	0	0	0
4/24/2024 11:48	40601	PIGR_T1	118	169	51	0.35	0.49	0.14	0.08	0.13	0	0	0	0	0	0
4/24/2024 11:48	25501	MADI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/24/2024 11:48	59301	MCAL_T1	7	6	-1	0.61	0.67	0.06	0	0	0	0	0	0	0	0
4/24/2024 11:48	52501	PROG_T1	0	0	0	0	0	0	0.94	0.82	2	2	0	600	600	0
4/24/2024 11:48	55105	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 11:48	59302	MCAL_T1	2	5	3	0.15	0.68	0.53	-0.41	-0.13	1	1	0	600	600	0
4/24/2024 11:48	25503	MADI_T1	4	97	93	0.13	0.17	0.04	-1.08	-1.12	0	0	0	0	0	0
4/24/2024 11:49	40601	PIGR_T1	118	169	51	0.35	0.49	0.14	0	0	0	0	0	0	0	0
4/24/2024 11:49	40602	PIGR_T1	0	0	0	0	0	0	-0.12	-0.13	1	1	0	600	600	0
4/24/2024 11:49	59301	MCAL_T1	7	6	-1	0.61	0.67	0.06	-1.62	-1.59	1	1	0	600	600	0
4/24/2024 11:49	59302	MCAL_T1	2	5	3	0.15	0.68	0.53	0	0	0	0	0	0	0	0
4/24/2024 11:50	40602	PIGR_T1	0	0	0	0	0	0	-0.23	-0.26	2	2	0	1200	1200	0
4/24/2024 11:50	13302	ORVI_T2	3	2	-1	0.47	0.7	0.23	1.35	1.42	0	0	0	0	0	0
4/24/2024 11:50	40601	PIGR_T1	118	169	51	0.35	0.49	0.14	0	0	0	0	0	0	0	0
4/24/2024 11:51	52501	PROG_T1	0	0	0	0	0	0	0.47	0.41	1	1	0	300	300	0
4/24/2024 11:51	40601	PIGR_T1	118	169	51	0.35	0.49	0.14	0.08	0.13	0	0	0	0	0	0
4/24/2024 11:51	42201	SHEN_T2	1	3	2	0.4	0.43	0.03	-0.48	-0.5	2	2	0	1200	1200	0
4/24/2024 11:52	43304	WATS_T2	2	2	0	0.45	0.55	0.1	-0.4	-0.84	0	0	0	0	0	0
4/24/2024 11:52	43302	WATS_T2	4	4	0	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
4/24/2024 11:52	52502	PROG_T2	2	0	-2	0.85	0	-0.85	-1.52	0.38	2	0	-2	1800	0	-1800
4/24/2024 11:52	55105	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 11:52	43301	WATS_T2	11	1	-10	0.32	0.4	0.08	0	0	0	0	0	0	0	0
4/24/2024 11:53	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.84	-0.88	0	0	0	0	0	0
4/24/2024 11:53	45902	AUBU_T1	1	1	0	1	0.6	-0.4	-0.47	-0.58	1	1	0	600	600	0
4/24/2024 11:53	14603	SWHI_T1	5	9	4	0.46	0.52	0.06	-1.09	-1.08	1	1	0	600	600	0
4/24/2024 11:53	14602	SWHI_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
4/24/2024 11:53	14601	SWHI_T1	4	3	-1	0.38	0.43	0.05	0	0	0	0	0	0	0	0
4/24/2024 11:53	45901	AUBU_T1	0	1	1	0	0.1	0.1	1.67	1.68	0	0	0	0	0	0
4/24/2024 11:54	18001	ZION_T1	4	5	1	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
4/24/2024 11:54	49803	UNIV_T1	2	2	0	0.85	0.45	-0.4	0	0	0	0	0	0	0	0
4/24/2024 11:54	49804	UNIV_T1	1	1	0	0.7	0.7	0	1.33	1.29	0	0	0	0	0	0
4/24/2024 11:55	14201	EALL_T1	1	0	-1	0.1	0	-0.1	0.52	0.57	0	0	0	0	0	0
4/24/2024 11:55	43304	WATS_T2	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
4/24/2024 11:55	43301	WATS_T2	11	1	-10	0.32	0.4	0.08	0.24	0.24	0	0	0	0	0	0
4/24/2024 11:55	14203	EALL_T1	4	1	-3	0.25	0.5	0.25	1.14	1.12	0	0	0	0	0	0
4/24/2024 11:55	43302	WATS_T2	4	4	0	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
4/24/2024 11:56	21206	ECAR_T2	1	1	0	7.6	7.9	0.3	1.44	1.38	0	0	0	0	0	0
4/24/2024 11:56	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 11:56	46004	BERW_T2	3	3	0	0.17	0.3	0.13	0.13	0.1	0	0	0	0	0	0
4/24/2024 11:56	46002	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 11:57	40101	HUNT_T2	1	4	3	0.2	0.38	0.18	-0.25	-0.24	0	0	0	0	0	0
4/24/2024 11:58	45902	AUBU_T1	1	1	0	1	0.6	-0.4	-0.47	-0.58	1	1	0	600	600	0
4/24/2024 11:58	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 11:59	21206	ECAR_T2	1	1	0	7.6	7.9	0.3	1.44	1.38	0	0	0	0	0	0
4/24/2024 11:59	50103	HARR_T3	0	3	3	0	1.1	1.1	-0.78	-1.04	1	1	0	1200	1200	0
4/24/2024 11:59	50105	HARR_T3	6	6	0	6.17	5.98	-0.19	0	0	0	0	0	0	0	0
4/24/2024 11:59	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 11:59	50201	HARR_T3	2	1	-1	0.45	1	0.55	0	0	0	0	0	0	0	0
4/24/2024 12:00	44502	HAMI_T2	5	2	-3	1.2	2.1	0.9	-0.9	-0.99	0	0	0	0	0	0
4/24/2024 12:01	40101	HUNT_T2	4	0	-4	0.38	0	-0.38	-0.25	-0.24	0	0	0	0	0	0
4/24/2024 12:05	61202	REIN_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/24/2024 12:06	66701	STRA_T1	1	1	0	0.1	1.9	1.8	0.27	0.24	0	0	0	0	0	0
4/24/2024 12:06	59102	WALK_T2	0	7	7	0	0.27	0.27	0	0	0	0	0	0	0	0
4/24/2024 12:06	59101	WALK_T2	0	74	74	0	1.03	1.03	1.75	-0.05	0	0	0	0	0	0
4/24/2024 12:07	42002	MNVL_T2	1	1	0	4.9	4.6	-0.3	0	0	0	0	0	0	0	0
4/24/2024 12:07	42001	MNVL_T2	10	5	-5	0.54	0.36	-0.18	-0.04	-0.03	0	0	0	0	0	0
4/24/2024 12:07	59101	WALK_T2	0	74	74	0	1.03	1.03	3.5	-0.11	0	0	0	0	0	0
4/24/2024 12:07	59102	WALK_T2	0	7	7	0	0.27	0.27	0	0	0	0	0	0	0	0
4/24/2024 12:10	16101	BING_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
4/24/2024 12:10	53501	EVIL_T2	2	7	5	1.2	0.73	-0.47	0	0	0	0	0	0	0	0
4/24/2024 12:10	53502	EVIL_T2	0	0	0	0	0	0	0.2	0.05	1	1	0	600	600	0
4/24/2024 12:10	67605	WARW_T1	13	31	18	0.43	0.67	0.24	-1.12	-1.12	0	0	0	0	0	0
4/24/2024 12:10	16103	BING_T2	1	2	1	0.4	1	0.6	0	0	0	0	0	0	0	0
4/24/2024 12:10	16102	BING_T2	8	7	-1	0.74	0.76	0.02	-0.64	-0.62	1	1	0	1200	1200	0
4/24/2024 12:11	53502	EVIL_T2	0	0	0	0	0	0	0.2	0.05	1	1	0	600	600	0
4/24/2024 12:11	53501	EVIL_T2	2	7	5	1.2	0.73	-0.47	0	0	0	0	0	0	0	0
4/24/2024 12:12	21206	ECAR_T2	1	1	0	7.9	8.1	0.2	1.38	1.4	0	0	0	0	0	0
4/24/2024 12:12	53902	HALI_T2	1	4	3	5.3	2.08	-3.22	-0.29	-0.28	0	0	0	0	0	0
4/24/2024 12:12	22101	EDEL_T2	0	3	3	0	0.5	0.5	0.33	0.32	1	1	0	1200	1200	0
4/24/2024 12:12	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 12:12	53903	HALI_T2	2	10	8	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
4/24/2024 12:12	53901	HALI_T2	2	5	3	0.6	0.52	-0.08	0	0	0	0	0	0	0	0
4/24/2024 12:12	45501	DERR_T2	2	1	-1	0.45	0.3	-0.15	0.55	0.54	2	2	0	1800	1800	0
4/24/2024 12:14	21901	HUMB_T1	0	0	0	0	0	0	-1.02	-0.97	0	0	0	0	0	0
4/24/2024 12:14	46504	LOHA_T1	66	56	-10	0.32	0.27	-0.05	0	0	0	0	0	0	0	0
4/24/2024 12:14	45501	DERR_T2	2	1	-1	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
4/24/2024 12:14	45502	DERR_T2	0	0	0	0	0	0	0.06	0.11	0	0	0	0	0	0
4/24/2024 12:14	46506	LOHA_T1	1	1	0	0.4	0.4	0	-0.46	-0.44	0	0	0	0	0	0
4/24/2024 12:15	47203	FAXO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 12:15	67603	WARW_T1	0	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0
4/24/2024 12:15	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
4/24/2024 12:15	67605	WARW_T1	17	36	19	0.68	0.63	-0.05	-1.12	-1.12	0	0	0	0	0	0
4/24/2024 12:15	46506	LOHA_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/24/2024 12:15	46504	LOHA_T1	56	9	-47	0.27	0.3	0.03	0	0	0	0	0	0	0	0
4/24/2024 12:15	47202	FAXO_T2	0	0	0	0	0	0	-2.28	-2.3	0	0	0	0	0	0
4/24/2024 12:16	51401	LYKE_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
4/24/2024 12:16	51402	LYKE_T1	0	0	0	0	0	0	-1.77	-1.76	2	2	0	1200	1200	0
4/24/2024 12:17	43201	MVIL_T2	1	1	0	0.1	0.2	0.1	-0.07	-0.37	0	0	0	0	0	0
4/24/2024 12:17	51401	LYKE_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
4/24/2024 12:17	43202	MVIL_T2	109	135	26	0.76	0.68	-0.08	0	0	0	0	0	0	0	0
4/24/2024 12:18	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
4/24/2024 12:18	65603	QVIL_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
4/24/2024 12:18	46506	LOHA_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/24/2024 12:18	46504	LOHA_T1	56	9	-47	0.27	0.3	0.03	0	0	0	0	0	0	0	0
4/24/2024 12:19	59001	MIFF_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
4/24/2024 12:19	59003	MIFF_T1	1	2	1	0.6	0.4	-0.2	0.66	0.4	0	0	0	0	0	0
4/24/2024 12:19	65501	MOJO_T1	0	0	0	0	0	0	-0.04	0	0	0	0	0	0	0
4/24/2024 12:19	59002	MIFF_T1	6	6	0	0.63	0.65	0.02	0	0	0	0	0	0	0	0
4/24/2024 12:19	13807	SALI_T1	4	4	0	0.38	0.45	0.07	0	0	0	0	0	0	0	0
4/24/2024 12:19	13803	SALI_T1	0	0	0	0	0	0	0.23	0.21	2	2	0	2400	2400	0
4/24/2024 12:20	13803	SALI_T1	0	0	0	0	0	0	0.23	0.21	2	2	0	2400	2400	0
4/24/2024 12:20	13807	SALI_T1	4	4	0	0.38	0.45	0.07	0	0	0	0	0	0	0	0
4/24/2024 12:21	65603	QVIL_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
4/24/2024 12:21	45402	WBLO_T2	2	3	1	0.35	0.53	0.18	-0.84	-0.83	0	0	0	0	0	0
4/24/2024 12:22	20401	ASHF_T2	3	2	-1	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
4/24/2024 12:22	20403	ASHF_T2	114	62	-52	0.34	0.34	0	0.93	0.99	0	0	0	0	0	0
4/24/2024 12:22	20402	ASHF_T2	5	4	-1	0.44	0.48	0.04	0	0	0	0	0	0	0	0
4/24/2024 12:22	42201	SHEN_T2	3	3	0	0.43	0.27	-0.16	-0.23	-0.15	1	1	0	600	600	0
4/24/2024 12:23	13803	SALI_T1	0	0	0	0	0	0	0.23	0.21	2	2	0	2400	2400	0
4/24/2024 12:23	13807	SALI_T1	4	4	0	0.38	0.45	0.07	0	0	0	0	0	0	0	0
4/24/2024 12:24	20402	ASHF_T2	5	4	-1	0.44	0.48	0.04	0	0	0	0	0	0	0	0
4/24/2024 12:24	20403	ASHF_T2	114	62	-52	0.34	0.34	0	0.99	1.15	0	0	0	0	0	0
4/24/2024 12:24	20401	ASHF_T2	3	2	-1	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
4/24/2024 12:24	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 12:25	67603	WARW_T1	0	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0
4/24/2024 12:25	45902	AUBU_T1	1	3	2	0.6	0.5	-0.1	-0.58	-0.54	1	1	0	600	600	0
4/24/2024 12:25	67604	WARW_T1	0	0	0	0	0	0	0.81	0.84	0	0	0	0	0	0
4/24/2024 12:25	61303	EARL_T1	0	0	0	0	0	0	0.86	0.4	0	0	0	0	0	0
4/24/2024 12:25	46001	BERW_T1	0	0	0	0	0	0	0.82	0.8	0	0	0	0	0	0
4/24/2024 12:25	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 12:25	46005	BERW_T1	1	2	1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/24/2024 12:25	67605	WARW_T1	17	36	19	0.68	0.63	-0.05	0	0	0	0	0	0	0	0
4/24/2024 12:25	61302	EARL_T1	0	0	0	0	0	0	0.45	0.87	2	2	0	1800	1800	0
4/24/2024 12:26	41801	GOCI_T2	266	105	-161	0.64	0.22	-0.42	0	0	0	0	0	0	0	0
4/24/2024 12:26	46001	BERW_T1	0	0	0	0	0	0	0.82	0.8	0	0	0	0	0	0
4/24/2024 12:26	46005	BERW_T1	1	2	1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/24/2024 12:26	15704	TANN_T1	1	0	-1	0.2	0	-0.2	-1.25	-1.13	0	0	0	0	0	0
4/24/2024 12:26	15701	TANN_T1	2	2	0	2.45	2.3	-0.15	0	0	0	0	0	0	0	0
4/24/2024 12:26	61303	EARL_T1	0	0	0	0	0	0	0.86	0.4	0	0	0	0	0	0
4/24/2024 12:26	41802	GOCI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 12:27	14601	SWHI_T1	2	4	2	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
4/24/2024 12:27	46005	BERW_T1	1	2	1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/24/2024 12:27	46001	BERW_T1	0	0	0	0	0	0	0.82	0.8	0	0	0	0	0	0
4/24/2024 12:27	14603	SWHI_T1	7	3	-4	0.56	0.77	0.21	-1.1	-1.08	1	1	0	600	600	0
4/24/2024 12:27	14602	SWHI_T1	1	1	0	0.4	1.2	0.8	0	0	0	0	0	0	0	0
4/24/2024 12:27	61303	EARL_T1	0	0	0	0	0	0	0.86	0.4	0	0	0	0	0	0
4/24/2024 12:27	61504	EPET_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
4/24/2024 12:28	54505	ENOL_T2	1	3	2	1	0.7	-0.3	-1.38	-1.4	1	1	0	600	600	0
4/24/2024 12:28	54503	ENOL_T2	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
4/24/2024 12:28	54501	ENOL_T2	1	5	4	0.1	0.36	0.26	0	0	0	0	0	0	0	0
4/24/2024 12:28	54502	ENOL_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/24/2024 12:28	54504	ENOL_T2	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
4/24/2024 12:28	47203	FAXO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 12:28	47202	FAXO_T2	0	0	0	0	0	0	-2.3	-2.33	0	0	0	0	0	0
4/24/2024 12:30	67603	WARW_T1	0	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0
4/24/2024 12:30	57306	MOAL_T2	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/24/2024 12:30	57303	MOAL_T2	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
4/24/2024 12:30	67605	WARW_T1	31	31	0	0.67	0.53	-0.14	-1.12	-1.11	0	0	0	0	0	0
4/24/2024 12:30	57304	MOAL_T2	50	60	10	0.29	0.31	0.02	-0.67	-0.66	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/24/2024 12:30	45902	AUBU_T1	1	3	2	0.6	0.5	-0.1	-0.58	-0.54	1	1	0	600	600	0
4/24/2024 12:31	51401	LYKE_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
4/24/2024 12:32	26402	INOR_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/24/2024 12:32	46001	BERW_T1	0	0	0	0	0	0	0.82	0.8	0	0	0	0	0	0
4/24/2024 12:32	26401	INOR_T1	3	1	-2	3.4	8.5	5.1	0.35	0.51	0	0	0	0	0	0
4/24/2024 12:32	46005	BERW_T1	2	1	-1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/24/2024 12:33	50105	HARR_T3	6	6	0	5.72	5.68	-0.04	0	0	0	0	0	0	0	0
4/24/2024 12:33	50201	HARR_T3	2	5	3	0.8	1.02	0.22	-1.07	-1.08	1	1	0	1200	1200	0
4/24/2024 12:33	50102	HARR_T3	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/24/2024 12:33	50103	HARR_T3	2	6	4	1.3	0.68	-0.62	0	0	0	0	0	0	0	0
4/24/2024 12:33	44201	POIN_T1	70	0	-70	0.16	0	-0.16	-2.01	-1.74	2	2	0	2100	2100	0
4/24/2024 12:33	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 12:33	58402	MORO_T1	0	0	0	0	0	0	-0.4	-0.42	2	2	0	1500	1500	0
4/24/2024 12:35	57306	MOAL_T2	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/24/2024 12:35	67605	WARW_T1	31	31	0	0.67	0.53	-0.14	-1.12	-1.11	0	0	0	0	0	0
4/24/2024 12:35	67603	WARW_T1	0	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0
4/24/2024 12:35	44201	POIN_T1	70	0	-70	0.16	0	-0.16	-2.01	-1.74	2	2	0	2100	2100	0
4/24/2024 12:35	57304	MOAL_T2	50	60	10	0.29	0.31	0.02	-0.67	-0.66	0	0	0	0	0	0
4/24/2024 12:35	57303	MOAL_T2	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
4/24/2024 12:36	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 12:36	51401	LYKE_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
4/24/2024 12:36	58402	MORO_T1	0	0	0	0	0	0	-0.4	-0.42	2	2	0	1500	1500	0
4/24/2024 12:36	66701	STRA_T1	0	2	2	0	0.6	0.6	0.25	0.28	0	0	0	0	0	0
4/24/2024 12:38	54601	SUMM_T2	12	11	-1	0.96	0.84	-0.12	-1.88	-1.83	2	2	0	2100	2100	0
4/24/2024 12:38	54602	SUMM_T2	19	16	-3	0.5	0.21	-0.29	0	0	0	0	0	0	0	0
4/24/2024 12:38	54603	SUMM_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 12:39	51302	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 12:39	51306	WIND_T2	3	3	0	0.3	0.4	0.1	0.1	0	0	0	0	0	0	0
4/24/2024 12:39	59101	WALK_T2	74	68	-6	1.03	0.81	-0.22	0.08	0.08	0	0	0	0	0	0
4/24/2024 12:39	59102	WALK_T2	5	2	-3	0.26	0.15	-0.11	0	0	0	0	0	0	0	0
4/24/2024 12:39	51304	WIND_T2	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/24/2024 12:40	57004	WHIH_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 12:40	57006	WHIH_T2	2	2	0	0.4	0.4	0	0.37	0.35	1	1	0	600	600	0
4/24/2024 12:40	57003	WHIH_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/24/2024 12:41	10903	COOP_T2	1	1	0	1.6	1.1	-0.5	0.06	0.03	1	1	0	600	600	0
4/24/2024 12:42	63801	HEMP_T1	15	6	-9	0.43	0.22	-0.21	0	0	0	0	0	0	0	0
4/24/2024 12:42	63804	HEMP_T1	3	1	-2	2.27	6.6	4.33	0	0	0	0	0	0	0	0
4/24/2024 12:42	67701	WERN_T2	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/24/2024 12:42	63803	HEMP_T1	11	3	-8	0.4	0.43	0.03	0.12	0.12	0	0	0	0	0	0
4/24/2024 12:42	46001	BERW_T1	0	0	0	0	0	0	0.8	0.91	0	0	0	0	0	0
4/24/2024 12:42	67703	WERN_T2	2	2	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
4/24/2024 12:42	46005	BERW_T1	2	1	-1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/24/2024 12:42	63802	HEMP_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/24/2024 12:42	67702	WERN_T2	0	1	1	0	0.7	0.7	-0.06	-0.06	0	0	0	0	0	0
4/24/2024 12:43	46005	BERW_T1	2	1	-1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/24/2024 12:43	51301	WIND_T1	10	15	5	0.42	0.57	0.15	-0.29	-0.33	0	0	0	0	0	0
4/24/2024 12:43	46001	BERW_T1	0	0	0	0	0	0	0.8	0.91	0	0	0	0	0	0
4/24/2024 12:43	63602	LETO_T1	3	3	0	0.37	0.83	0.46	-0.28	-0.36	0	0	0	0	0	0
4/24/2024 12:43	51305	WIND_T1	3	3	0	0.5	0.93	0.43	0	0	0	0	0	0	0	0
4/24/2024 12:43	63305	GREE_T1	0	0	0	0	0	0	-1.12	-1.09	0	0	0	0	0	0
4/24/2024 12:43	51303	WIND_T1	1	2	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
4/24/2024 12:44	41301	FISH_T1	3	4	1	1.93	1.68	-0.25	0	0	0	0	0	0	0	0
4/24/2024 12:44	63305	GREE_T1	0	0	0	0	0	0	-1.12	-1.09	0	0	0	0	0	0
4/24/2024 12:44	41303	FISH_T1	0	0	0	0	0	0	-0.33	-0.01	0	0	0	0	0	0
4/24/2024 12:45	57004	WHIH_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
4/24/2024 12:45	57006	WHIH_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/24/2024 12:45	57003	WHIH_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/24/2024 12:46	48302	ORWI_T2	2	2	0	1.5	1.45	-0.05	0	0.03	0	0	0	0	0	0
4/24/2024 12:48	46005	BERW_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/24/2024 12:48	42902	MIDD_T2	0	5	5	0	0.5	0.5	-0.92	-0.95	1	1	0	600	600	0
4/24/2024 12:48	42901	MIDD_T2	1	0	-1	1.9	0	-1.9	0	0	0	0	0	0	0	0
4/24/2024 12:48	42903	MIDD_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/24/2024 12:48	46001	BERW_T1	0	0	0	0	0	0	0.8	0.91	0	0	0	0	0	0
4/24/2024 12:49	51004	NHAR_T1	17	15	-2	1.06	1.12	0.06	-0.4	-0.41	0	0	0	0	0	0
4/24/2024 12:49	51002	NHAR_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
4/24/2024 12:49	51003	NHAR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 12:49	13503	MCMI_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 12:49	51006	NHAR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 12:50	66701	STRA_T1	1	3	2	0.5	0.6	0.1	0.56	0.58	0	0	0	0	0	0
4/24/2024 12:51	24603	VARD_T2	5	6	1	0.78	0.73	-0.05	0	0	0	0	0	0	0	0
4/24/2024 12:51	24602	VARD_T2	61	62	1	0.35	0.3	-0.05	-0.31	-0.29	0	0	0	0	0	0
4/24/2024 12:51	42802	SELI_T1	0	1	1	0	0	0	-0.74	-0.74	1	1	0	900	900	0
4/24/2024 12:52	42802	SELI_T1	0	1	1	0	0	0	-0.74	-0.74	1	1	0	900	900	0
4/24/2024 12:52	11103	EGYP_T1	2	4	2	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/24/2024 12:52	11104	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 12:52	44301	BEAV_T2	1	6	5	1.9	0.42	-1.48	0.91	1.64	1	1	0	600	600	0
4/24/2024 12:52	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/24/2024 12:52	44302	BEAV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/24/2024 12:52	11102	EGYP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/24/2024 12:53	44301	BEAV_T2	1	6	5	1.9	0.42	-1.48	0.91	1.64	1	1	0	600	600	0
4/24/2024 12:53	44302	BEAV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/24/2024 12:54	57003	WHIH_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/24/2024 12:54	60102	COCA_T1	0	2	2	0	0.25	0.25	-0.97	-0.68	2	2	0	1200	1200	0
4/24/2024 12:54	60101	COCA_T1	2	8	6	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/24/2024 12:54	44302	BEAV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/24/2024 12:54	44301	BEAV_T2	1	6	5	1.9	0.42	-1.48	1.64	1.38	1	1	0	600	600	0
4/24/2024 12:54	57006	WHIH_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/24/2024 12:54	57001	WHIH_T2	0	0	0	0	0	0	-0.1	-0.08	1	1	0	900	900	0
4/24/2024 12:55	61304	EARL_T1	0	0	0	0	0	0	-1.68	-1.67	2	2	0	1200	1200	0
4/24/2024 12:55	14102	TRUM_T2	1	2	1	0.8	0.65	-0.15	-0.19	-0.03	2	2	0	1500	1500	0
4/24/2024 12:55	14101	TRUM_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/24/2024 12:55	44302	BEAV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/24/2024 12:55	60101	COCA_T1	2	8	6	0.4	0.6	0.2	0.76	0.73	0	0	0	0	0	0
4/24/2024 12:55	67603	WARW_T1	2	2	0	0.85	0.55	-0.3	-0.01	0	0	0	0	0	0	0
4/24/2024 12:55	61302	EARL_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/24/2024 12:55	14103	TRUM_T2	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
4/24/2024 12:55	60102	COCA_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/24/2024 12:55	44301	BEAV_T2	1	6	5	1.9	0.42	-1.48	1.64	1.38	1	1	0	600	600	0
4/24/2024 12:55	67605	WARW_T1	31	20	-11	0.53	0.6	0.07	0	0	0	0	0	0	0	0
4/24/2024 12:56	14603	SWHI_T1	3	3	0	0.57	0.27	-0.3	-1.03	-1.09	1	1	0	600	600	0
4/24/2024 12:56	14601	SWHI_T1	2	1	-1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
4/24/2024 12:56	67603	WARW_T1	2	2	0	0.85	0.55	-0.3	0	0	0	0	0	0	0	0
4/24/2024 12:56	61302	EARL_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/24/2024 12:56	67604	WARW_T1	0	0	0	0	0	0	0.87	0.84	0	0	0	0	0	0
4/24/2024 12:56	67605	WARW_T1	31	20	-11	0.53	0.6	0.07	0	0	0	0	0	0	0	0
4/24/2024 12:56	14602	SWHI_T1	1	1	0	1.2	0.1	-1.1	0	0	0	0	0	0	0	0
4/24/2024 12:56	41301	FISH_T1	4	3	-1	1.63	1.83	0.2	0	0	0	0	0	0	0	0
4/24/2024 12:56	61303	EARL_T1	0	0	0	0	0	0	1.08	0.9	0	0	0	0	0	0
4/24/2024 12:56	41303	FISH_T1	0	0	0	0	0	0	-0.01	-0.14	0	0	0	0	0	0
4/24/2024 12:57	63305	GREE_T1	0	0	0	0	0	0	-1.09	-0.96	0	0	0	0	0	0
4/24/2024 12:57	61302	EARL_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/24/2024 12:57	61304	EARL_T1	0	0	0	0	0	0	-0.84	-0.83	1	1	0	600	600	0
4/24/2024 12:58	61302	EARL_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/24/2024 12:58	61303	EARL_T1	0	0	0	0	0	0	1.08	0.9	0	0	0	0	0	0
4/24/2024 13:00	50201	HARR_T3	1	2	1	0.9	0.6	-0.3	-1.07	-1.09	1	1	0	1200	1200	0
4/24/2024 13:00	61502	EPET_T1	0	1	1	0	0.3	0.3	-0.83	-0.88	0	0	0	0	0	0
4/24/2024 13:00	67603	WARW_T1	2	1	-1	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
4/24/2024 13:00	16402	MOPO_T1	1	22	21	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
4/24/2024 13:00	16406	MOPO_T1	0	0	0	0	0	0	-1.52	0.36	2	1	-1	2100	1200	-900
4/24/2024 13:00	50103	HARR_T3	4	4	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
4/24/2024 13:00	67605	WARW_T1	16	31	15	0.56	0.55	-0.01	-1.11	-1.13	0	0	0	0	0	0
4/24/2024 13:00	16401	MOPO_T1	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
4/24/2024 13:00	50105	HARR_T3	6	6	0	5.83	5.87	0.04	0	0	0	0	0	0	0	0
4/24/2024 13:01	25502	MADI_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/24/2024 13:01	25501	MADI_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/24/2024 13:01	25503	MADI_T1	3	7	4	0.67	0.31	-0.36	-1.09	-1.08	0	0	0	0	0	0
4/24/2024 13:03	44202	POIN_T2	1	0	-1	0.2	0	-0.2	-0.95	-0.96	1	1	0	1200	1200	0
4/24/2024 13:03	44203	POIN_T2	0	0	0	0	0	0	-0.35	-0.12	4	4	0	4200	4200	0
4/24/2024 13:04	42902	MIDD_T2	3	10	7	1.43	0.62	-0.81	-1.9	-1.68	2	2	0	1200	1200	0
4/24/2024 13:04	42903	MIDD_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/24/2024 13:04	27603	PIRI_T2	0	0	0	0	0	0	0.3	-1.14	2	2	0	1800	1800	0
4/24/2024 13:05	67603	WARW_T1	2	1	-1	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
4/24/2024 13:05	67605	WARW_T1	16	31	15	0.56	0.55	-0.01	-1.11	-1.13	0	0	0	0	0	0
4/24/2024 13:06	56503	ROCK_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/24/2024 13:06	56501	ROCK_T2	5	7	2	0.7	1.27	0.57	0	0	0	0	0	0	0	0
4/24/2024 13:06	56504	ROCK_T2	0	4	4	0	0.98	0.98	0	0	0	0	0	0	0	0
4/24/2024 13:07	44203	POIN_T2	0	0	0	0	0	0	-0.18	-0.06	2	2	0	2100	2100	0
4/24/2024 13:07	44202	POIN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 13:08	44301	BEAV_T2	5	6	1	0.66	0.42	-0.24	1.64	1.38	1	1	0	600	600	0
4/24/2024 13:08	44302	BEAV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/24/2024 13:09	16401	MOPO_T1	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
4/24/2024 13:09	16402	MOPO_T1	1	22	21	0.3	0.29	-0.01	-0.11	-0.06	0	0	0	0	0	0
4/24/2024 13:10	67603	WARW_T1	2	1	-1	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
4/24/2024 13:10	67605	WARW_T1	16	31	15	0.56	0.55	-0.01	-1.13	-1.1	0	0	0	0	0	0
4/24/2024 13:12	43103	SMIL_T2	17	17	0	0.48	0.69	0.21	0	0	0	0	0	0	0	0
4/24/2024 13:12	43102	SMIL_T2	3	5	2	0.1	0.18	0.08	-0.85	-0.85	1	1	0	600	600	0
4/24/2024 13:12	43104	SMIL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/24/2024 13:12	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 13:12	43101	SMIL_T2	3	3	0	0.77	0.33	-0.44	0	0	0	0	0	0	0	0
4/24/2024 13:14	23902	EFMO_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
4/24/2024 13:14	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 13:15	67603	WARW_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/24/2024 13:15	67605	WARW_T1	20	43	23	0.58	0.6	0.02	-1.13	-1.1	0	0	0	0	0	0
4/24/2024 13:16	59301	MCAL_T1	8	6	-2	0.6	0.43	-0.17	-1.43	-1.46	1	1	0	600	600	0
4/24/2024 13:19	50103	HARR_T3	4	2	-2	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/24/2024 13:19	50202	HARR_T3	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
4/24/2024 13:19	50201	HARR_T3	2	5	3	0.6	0.52	-0.08	0	0	0	0	0	0	0	0
4/24/2024 13:19	50105	HARR_T3	6	6	0	5.87	5.85	-0.02	0	0	0	0	0	0	0	0
4/24/2024 13:20	13502	MCMI_T1	9	3	-6	0.31	0.1	-0.21	0	0	0	0	0	0	0	0
4/24/2024 13:20	13503	MCMI_T2	1	1	0	0.1	0.8	0.7	-0.04	-0.01	0	0	0	0	0	0
4/24/2024 13:20	13501	MCMI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 13:21	65601	QVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/24/2024 13:21	65604	QVIL_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/24/2024 13:22	65601	QVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/24/2024 13:22	65604	QVIL_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
4/24/2024 13:22	16504	STRO_T1	0	0	0	0	0	0	0.21	0.21	1	1	0	1200	1200	0
4/24/2024 13:23	15001	BLMO_T1	4	6	2	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
4/24/2024 13:23	17002	RIRO_T2	5	3	-2	0.48	0.3	-0.18	0.6	0.59	0	0	0	0	0	0
4/24/2024 13:24	66503	SMAN_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/24/2024 13:24	66502	SMAN_T2	0	10	10	0	0.36	0.36	0	0	0	0	0	0	0	0
4/24/2024 13:24	66505	SMAN_T2	0	4	4	0	1	1	0	0	0	0	0	0	0	0
4/24/2024 13:24	66501	SMAN_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
4/24/2024 13:24	66504	SMAN_T2	0	3	3	0	0.63	0.63	-0.38	-0.4	0	0	0	0	0	0
4/24/2024 13:24	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 13:24	16302	ALPA_T2	1	0	-1	0.1	0	-0.1	0.8	0.86	0	0	0	0	0	0
4/24/2024 13:26	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 13:27	62601	ENGL_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
4/24/2024 13:27	62605	ENGL_T1	0	4	4	0	0.28	0.28	-0.76	-0.76	0	0	0	0	0	0
4/24/2024 13:27	62607	ENGL_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
4/24/2024 13:27	62602	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 13:28	62607	ENGL_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
4/24/2024 13:28	62605	ENGL_T1	0	4	4	0	0.28	0.28	-0.76	-0.76	0	0	0	0	0	0
4/24/2024 13:28	62602	ENGL_T1	0	1	1	0	0.2	0.2	0.05	0.04	0	0	0	0	0	0
4/24/2024 13:28	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 13:29	62607	ENGL_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
4/24/2024 13:29	62602	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 13:29	62605	ENGL_T1	0	4	4	0	0.28	0.28	-0.76	-0.76	0	0	0	0	0	0
4/24/2024 13:30	62607	ENGL_T1	0	9	9	0	0.33	0.33	0	0	0	0	0	0	0	0
4/24/2024 13:30	54502	ENOL_T2	1	2	1	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
4/24/2024 13:30	54505	ENOL_T2	1	3	2	0.9	0.63	-0.27	0	0	0	0	0	0	0	0
4/24/2024 13:30	54503	ENOL_T2	0	3	3	0	0.27	0.27	-1.35	-1.36	1	1	0	600	600	0
4/24/2024 13:30	62605	ENGL_T1	0	8	8	0	0.31	0.31	-0.76	-0.76	0	0	0	0	0	0
4/24/2024 13:30	54501	ENOL_T2	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
4/24/2024 13:30	62602	ENGL_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/24/2024 13:34	60502	NMAN_T2	2	3	1	0.45	0.57	0.12	-0.31	-0.37	0	0	0	0	0	0
4/24/2024 13:34	60504	NMAN_T2	2	3	1	0.35	0.87	0.52	0	0	0	0	0	0	0	0
4/24/2024 13:34	60501	NMAN_T2	4	7	3	4.28	2.64	-1.64	0	0	0	0	0	0	0	0
4/24/2024 13:35	41502	FAIR_T2	0	1	1	0	0.1	0.1	-0.67	-0.69	0	0	0	0	0	0
4/24/2024 13:37	43302	WATS_T2	0	4	4	0	0.35	0.35	-0.51	-0.77	3	3	0	2400	2400	0
4/24/2024 13:39	43302	WATS_T2	0	4	4	0	0.35	0.35	-0.77	-0.73	3	3	0	2400	2400	0
4/24/2024 13:39	60903	DONG_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/24/2024 13:39	60904	DONG_T2	4	8	4	0.23	0.36	0.13	0	0	0	0	0	0	0	0
4/24/2024 13:39	60902	DONG_T2	1	1	0	0.1	0.1	0	0.82	0.8	0	0	0	0	0	0
4/24/2024 13:39	60901	DONG_T2	8	6	-2	0.69	0.42	-0.27	0	0	0	0	0	0	0	0
4/24/2024 13:40	62602	ENGL_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/24/2024 13:40	62607	ENGL_T1	0	9	9	0	0.33	0.33	-1.69	-1.72	0	0	0	0	0	0
4/24/2024 13:40	62605	ENGL_T1	0	8	8	0	0.31	0.31	0	0	0	0	0	0	0	0
4/24/2024 13:41	41801	GOCI_T2	41	322	281	0.21	0.6	0.39	0	0	0	0	0	0	0	0
4/24/2024 13:41	43103	SMIL_T2	17	18	1	0.65	0.69	0.04	0	0	0	0	0	0	0	0
4/24/2024 13:41	41802	GOCI_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/24/2024 13:41	43102	SMIL_T2	5	5	0	0.16	0.26	0.1	-0.87	-0.86	1	1	0	600	600	0
4/24/2024 13:43	63801	HEMP_T1	11	10	-1	0.32	0.33	0.01	0	0	0	0	0	0	0	0
4/24/2024 13:43	63804	HEMP_T1	2	1	-1	3.4	6.5	3.1	0	0	0	0	0	0	0	0
4/24/2024 13:43	63802	HEMP_T1	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/24/2024 13:43	63803	HEMP_T1	7	3	-4	0.49	0.27	-0.22	0.24	0.26	0	0	0	0	0	0
4/24/2024 13:44	62605	ENGL_T1	0	8	8	0	0.31	0.31	0	0	0	0	0	0	0	0
4/24/2024 13:44	62607	ENGL_T1	0	9	9	0	0.33	0.33	-0.84	-0.86	0	0	0	0	0	0
4/24/2024 13:44	67605	WARW_T1	30	44	14	0.56	0.61	0.05	-1.1	-1.08	0	0	0	0	0	0
4/24/2024 13:44	62602	ENGL_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/24/2024 13:44	67603	WARW_T1	0	3	3	0	0.77	0.77	0	0	0	0	0	0	0	0
4/24/2024 13:45	62607	ENGL_T1	4	10	6	0.33	0.33	0	-0.84	-0.86	0	0	0	0	0	0
4/24/2024 13:45	62602	ENGL_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/24/2024 13:45	62605	ENGL_T1	4	8	4	0.28	0.31	0.03	0	0	0	0	0	0	0	0
4/24/2024 13:46	42401	GIMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 13:49	67603	WARW_T1	1	3	2	0.2	0.77	0.57	0	0	0	0	0	0	0	0
4/24/2024 13:49	13302	ORVI_T2	1	3	2	1.2	0.53	-0.67	1.32	1.38	0	0	0	0	0	0
4/24/2024 13:49	67605	WARW_T1	42	33	-9	0.61	0.6	-0.01	-1.1	-1.08	0	0	0	0	0	0
4/24/2024 13:50	24901	WHHA_T1	1	7	6	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
4/24/2024 13:50	24902	WHHA_T1	59	82	23	0.4	0.42	0.02	0	0	0	0	0	0	0	0
4/24/2024 13:53	66505	SMAN_T2	4	4	0	1	0.53	-0.47	0.3	0.57	2	2	0	1100	1100	0
4/24/2024 13:53	66504	SMAN_T2	3	3	0	0.47	0.67	0.2	0	0	0	0	0	0	0	0
4/24/2024 13:53	66502	SMAN_T2	10	12	2	0.36	0.31	-0.05	0	0	0	0	0	0	0	0
4/24/2024 13:53	66503	SMAN_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/24/2024 13:53	66501	SMAN_T2	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
4/24/2024 13:54	45902	AUBU_T1	0	3	3	0	0.4	0.4	-0.86	-0.94	1	1	0	600	600	0
4/24/2024 13:55	66505	SMAN_T2	4	4	0	1	0.53	-0.47	0	0	0	0	0	0	0	0
4/24/2024 13:55	66503	SMAN_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/24/2024 13:55	66502	SMAN_T2	10	12	2	0.36	0.31	-0.05	0.29	0.44	0	0	0	0	0	0
4/24/2024 13:55	66501	SMAN_T2	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
4/24/2024 13:55	66504	SMAN_T2	3	3	0	0.47	0.67	0.2	0	0	0	0	0	0	0	0
4/24/2024 13:56	60902	DONG_T2	1	0	-1	0.1	0	-0.1	0.8	0.83	0	0	0	0	0	0
4/24/2024 13:56	60903	DONG_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
4/24/2024 13:56	60901	DONG_T2	6	2	-4	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
4/24/2024 13:56	60904	DONG_T2	8	4	-4	0.36	0.4	0.04	0	0	0	0	0	0	0	0
4/24/2024 13:57	41802	GOCI_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/24/2024 13:57	40101	HUNT_T2	0	0	0	0	0	0	-0.07	-0.16	0	0	0	0	0	0
4/24/2024 13:57	41801	GOCI_T2	278	315	37	0.56	0.59	0.03	0	0	0	0	0	0	0	0
4/24/2024 13:58	40101	HUNT_T2	0	0	0	0	0	0	-0.14	-0.33	0	0	0	0	0	0
4/24/2024 13:58	45802	HEGI_T2	0	28	28	0	0.45	0.45	1.39	1.33	0	0	0	0	0	0
4/24/2024 13:58	61702	ELIZ_T2	3	2	-1	0.8	0.75	-0.05	-2.13	-2.11	2	2	0	1500	1500	0
4/24/2024 13:59	45902	AUBU_T1	0	3	3	0	0.4	0.4	-0.86	-0.94	1	1	0	600	600	0
4/24/2024 14:01	46102	MACI_T1	6	15	9	0.1	0.17	0.07	0.31	0.3	0	0	0	0	0	0
4/24/2024 14:02	13503	MCMI_T2	7	2	-5	0.46	1.3	0.84	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 14:02	40101	HUNT_T2	0	0	0	0	0	0	-0.07	-0.16	0	0	0	0	0	0
4/24/2024 14:02	45802	HEGI_T2	0	41	41	0	0.63	0.63	1.39	1.33	0	0	0	0	0	0
4/24/2024 14:03	50105	HARR_T3	6	6	0	5.88	5.82	-0.06	0	0	0	0	0	0	0	0
4/24/2024 14:03	50107	HARR_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 14:03	50103	HARR_T3	3	5	2	0.67	0.74	0.07	0	0	0	0	0	0	0	0
4/24/2024 14:03	50201	HARR_T3	2	6	4	0.6	0.68	0.08	-1.05	-1.02	1	1	0	1200	1200	0
4/24/2024 14:05	13501	MCMI_T1	1	1	0	0.2	0.1	-0.1	0.07	0.07	0	0	0	0	0	0
4/24/2024 14:05	13502	MCMI_T1	7	18	11	0.21	0.28	0.07	0	0	0	0	0	0	0	0
4/24/2024 14:07	59001	MIFF_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
4/24/2024 14:07	66504	SMAN_T2	3	3	0	0.67	0.6	-0.07	0	0	0	0	0	0	0	0
4/24/2024 14:07	59002	MIFF_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/24/2024 14:07	66505	SMAN_T2	3	4	1	0.67	0.2	-0.47	0	0	0	0	0	0	0	0
4/24/2024 14:07	66502	SMAN_T2	12	11	-1	0.31	0.32	0.01	0.29	0.44	0	0	0	0	0	0
4/24/2024 14:07	59003	MIFF_T1	0	1	1	0	0.3	0.3	1.39	0.57	0	0	0	0	0	0
4/24/2024 14:07	66501	SMAN_T2	2	2	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
4/24/2024 14:07	66503	SMAN_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/24/2024 14:08	66901	SHIL_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
4/24/2024 14:08	66902	SHIL_T2	1	2	1	0.2	0.6	0.4	-0.79	-0.78	0	0	0	0	0	0
4/24/2024 14:08	57006	WHHI_T2	0	3	3	0	0.63	0.63	0.39	0.39	1	1	0	600	600	0
4/24/2024 14:08	57003	WHHI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/24/2024 14:08	67401	WAKE_T2	3	7	4	0.27	0.67	0.4	-1.13	-1.11	0	0	0	0	0	0
4/24/2024 14:09	10702	CATA_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/24/2024 14:09	10704	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/24/2024 14:09	10707	CATA_T2	0	2	2	0	0.7	0.7	0.38	0.35	0	0	0	0	0	0
4/24/2024 14:09	10705	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 14:09	45902	AUBU_T1	1	4	3	0.5	0.35	-0.15	-0.94	-0.91	1	1	0	600	600	0
4/24/2024 14:10	45902	AUBU_T1	1	4	3	0.5	0.35	-0.15	-0.94	-0.91	1	1	0	600	600	0
4/24/2024 14:10	10705	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 14:10	10702	CATA_T2	1	1	0	0.5	0.7	0.2	-1.37	-1.36	0	0	0	0	0	0
4/24/2024 14:10	10704	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/24/2024 14:10	10707	CATA_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
4/24/2024 14:11	10704	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/24/2024 14:11	43102	SMIL_T2	5	6	1	0.26	0.45	0.19	-0.88	-0.87	1	1	0	600	600	0
4/24/2024 14:11	29401	BELT_T1	2	1	-1	0.45	0.6	0.15	0	0	3	3	0	2700	2700	0
4/24/2024 14:11	10701	CATA_T2	0	0	0	0	0	0	-0.71	-0.71	1	1	0	1200	1200	0
4/24/2024 14:11	43101	SMIL_T2	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
4/24/2024 14:11	10702	CATA_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/24/2024 14:11	10705	CATA_T2	0	1	1	0	0.1	0.1	0.04	0.06	0	0	0	0	0	0
4/24/2024 14:11	43103	SMIL_T2	18	20	2	0.69	0.76	0.07	0	0	0	0	0	0	0	0
4/24/2024 14:11	29402	BELT_T1	1	3	2	8.7	3.03	-5.67	0	0	0	0	0	0	0	0
4/24/2024 14:11	43105	SMIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 14:11	10707	CATA_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
4/24/2024 14:11	43104	SMIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/24/2024 14:12	10707	CATA_T2	0	2	2	0	0.7	0.7	0.38	0.35	0	0	0	0	0	0
4/24/2024 14:12	67402	WAKE_T2	0	0	0	0	0	0	0.41	0.43	1	1	0	600	600	0
4/24/2024 14:12	10705	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 14:12	10702	CATA_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/24/2024 14:12	67401	WAKE_T2	3	7	4	0.27	0.67	0.4	0	0	0	0	0	0	0	0
4/24/2024 14:12	10704	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/24/2024 14:13	29402	BELT_T1	1	3	2	8.7	3.03	-5.67	0	0	0	0	0	0	0	0
4/24/2024 14:13	29401	BELT_T1	2	1	-1	0.45	0.6	0.15	0	0	1	1	0	900	900	0
4/24/2024 14:13	10702	CATA_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/24/2024 14:13	10707	CATA_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
4/24/2024 14:13	10705	CATA_T2	0	1	1	0	0.1	0.1	0.04	0.06	0	0	0	0	0	0
4/24/2024 14:13	10704	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/24/2024 14:14	46004	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 14:14	46003	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 14:14	40101	HUNT_T2	0	0	0	0	0	0	-0.16	-0.26	0	0	0	0	0	0
4/24/2024 14:14	46002	BERW_T2	0	0	0	0	0	0	-0.79	-0.85	1	1	0	900	900	0
4/24/2024 14:15	64305	LINC_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
4/24/2024 14:15	45902	AUBU_T1	3	3	0	0.4	0.33	-0.07	-0.94	-0.91	1	1	0	600	600	0
4/24/2024 14:15	67605	WARW_T1	29	39	10	0.52	0.66	0.14	-1.05	-1.04	0	0	0	0	0	0
4/24/2024 14:15	67603	WARW_T1	3	4	1	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
4/24/2024 14:16	45801	HEGI_T1	0	0	0	0	0	0	-0.05	-0.1	1	1	0	900	900	0
4/24/2024 14:17	28805	LAKE_T1	1	0	-1	0.1	0	-0.1	-0.25	-0.23	0	0	0	0	0	0
4/24/2024 14:17	51402	LYKE_T1	0	0	0	0	0	0	-1.77	-1.79	2	2	0	1200	1200	0
4/24/2024 14:17	28801	LAKE_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/24/2024 14:18	13704	SCHN_T2	2	1	-1	0.45	0.5	0.05	-0.32	-0.35	0	0	0	0	0	0
4/24/2024 14:18	13701	SCHN_T2	1	4	3	0.8	0.18	-0.62	0	0	0	0	0	0	0	0
4/24/2024 14:20	67603	WARW_T1	3	4	1	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
4/24/2024 14:20	67605	WARW_T1	29	39	10	0.52	0.66	0.14	-1.05	-1.04	0	0	0	0	0	0
4/24/2024 14:21	13807	SALI_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/24/2024 14:21	41502	FAIR_T2	1	0	-1	0.2	0	-0.2	-0.69	-0.71	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/24/2024 14:21	13801	SALI_T1	0	0	0	0	0	0	0.86	0.86	0	0	0	0	0	0
4/24/2024 14:22	13801	SALI_T1	0	0	0	0	0	0	0.86	0.86	0	0	0	0	0	0
4/24/2024 14:22	13807	SALI_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/24/2024 14:23	45902	AUBU_T1	3	3	0	0.4	0.33	-0.07	-0.91	-0.88	1	1	0	600	600	0
4/24/2024 14:24	14601	SWHI_T1	8	1	-7	0.4	0.5	0.1	-1	-0.97	0	0	0	0	0	0
4/24/2024 14:24	43302	WATS_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/24/2024 14:24	43304	WATS_T2	0	0	0	0	0	0	-0.6	-0.57	0	0	0	0	0	0
4/24/2024 14:24	14602	SWHI_T1	4	1	-3	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
4/24/2024 14:24	14603	SWHI_T1	9	7	-2	0.8	0.64	-0.16	0	0	0	0	0	0	0	0
4/24/2024 14:25	45902	AUBU_T1	3	3	0	0.4	0.33	-0.07	-0.91	-0.88	1	1	0	600	600	0
4/24/2024 14:25	21206	ECAR_T2	1	1	0	7.9	7.9	0	1.48	1.35	0	0	0	0	0	0
4/24/2024 14:25	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 14:25	45901	AUBU_T1	0	0	0	0	0	0	2.13	2.06	0	0	0	0	0	0
4/24/2024 14:25	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 14:27	14204	EALL_T2	7	16	9	0.1	0.16	0.06	-0.7	-0.66	0	0	0	0	0	0
4/24/2024 14:27	41802	GOCI_T2	1	4	3	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
4/24/2024 14:27	41801	GOCI_T2	286	275	-11	0.51	0.56	0.05	0	0	0	0	0	0	0	0
4/24/2024 14:30	11805	FRAN_T1	0	1	1	0	0.4	0.4	-1.05	-0.99	1	1	0	1200	1200	0
4/24/2024 14:30	11804	FRAN_T1	4	5	1	1.13	0.94	-0.19	0	0	0	0	0	0	0	0
4/24/2024 14:30	41801	GOCI_T2	275	147	-128	0.56	0.31	-0.25	0	0	0	0	0	0	0	0
4/24/2024 14:30	41802	GOCI_T2	3	11	8	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/24/2024 14:30	58303	NOTT_T2	7	0	-7	0.31	0	-0.31	0.14	0.2	1	1	0	900	900	0
4/24/2024 14:31	62602	ENGL_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/24/2024 14:31	28403	HART_T2	1	1	0	0.1	0.1	0	-0.91	-0.93	1	1	0	900	900	0
4/24/2024 14:31	62605	ENGL_T1	0	7	7	0	0.3	0.3	0	0	0	0	0	0	0	0
4/24/2024 14:31	13501	MCMI_T1	0	6	6	0	0.37	0.37	0.05	0.07	0	0	0	0	0	0
4/24/2024 14:31	62607	ENGL_T1	3	4	1	0.17	0.45	0.28	-0.85	-0.86	0	0	0	0	0	0
4/24/2024 14:31	45902	AUBU_T1	3	5	2	0.33	0.64	0.31	-0.91	-0.88	1	1	0	600	600	0
4/24/2024 14:31	13502	MCMI_T1	14	26	12	0.19	0.27	0.08	0	0	0	0	0	0	0	0
4/24/2024 14:33	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 14:33	26401	INOR_T1	1	1	0	7.7	8.2	0.5	0.94	0.82	0	0	0	0	0	0
4/24/2024 14:33	13905	SEID_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/24/2024 14:34	46903	MNTG_T2	3	38	35	0.63	0.13	-0.5	0.06	0.02	1	1	0	600	600	0
4/24/2024 14:34	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 14:34	13905	SEID_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/24/2024 14:36	24103	EHAZ_T1	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
4/24/2024 14:36	24104	EHAZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/24/2024 14:36	66702	STRA_T1	0	0	0	0	0	0	0.91	0.93	2	2	0	1500	1500	0
4/24/2024 14:36	66701	STRA_T1	4	4	0	0.85	0.98	0.13	0	0	0	0	0	0	0	0
4/24/2024 14:36	24105	EHAZ_T1	4	4	0	6.7	6.25	-0.45	0	0	0	0	0	0	0	0
4/24/2024 14:36	24102	EHAZ_T1	1	0	-1	0.8	0	-0.8	0.22	0.2	0	0	0	0	0	0
4/24/2024 14:38	67401	WAKE_T2	6	9	3	0.75	0.61	-0.14	0	0	0	0	0	0	0	0
4/24/2024 14:38	58402	MORO_T1	1	0	-1	0.4	0	-0.4	-0.31	-0.32	2	2	0	1500	1500	0
4/24/2024 14:38	67402	WAKE_T2	0	0	0	0	0	0	0.44	0.41	1	1	0	600	600	0
4/24/2024 14:39	67401	WAKE_T2	6	9	3	0.75	0.61	-0.14	-1.11	-1.13	0	0	0	0	0	0
4/24/2024 14:40	60101	COCA_T1	6	7	1	0.7	0.66	-0.04	0	0	0	0	0	0	0	0
4/24/2024 14:40	60102	COCA_T1	0	0	0	0	0	0	-0.28	-0.33	2	2	0	1200	1200	0
4/24/2024 14:41	59101	WALK_T2	44	68	24	0.28	0.64	0.36	0	0.15	0	0	0	0	0	0
4/24/2024 14:41	59102	WALK_T2	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
4/24/2024 14:41	45902	AUBU_T1	3	5	2	0.33	0.64	0.31	-0.88	-0.81	1	1	0	600	600	0
4/24/2024 14:46	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 14:46	45902	AUBU_T1	1	5	4	0.1	0.72	0.62	-0.88	-0.81	1	1	0	600	600	0
4/24/2024 14:47	47001	HUGH_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/24/2024 14:47	47002	HUGH_T2	3	13	10	0.13	0.26	0.13	0	0	0	0	0	0	0	0
4/24/2024 14:48	58402	MORO_T1	0	1	1	0	0.2	0.2	-0.31	-0.32	2	2	0	1500	1500	0
4/24/2024 14:49	64902	MILL_T2	0	0	0	0	0	0	0.26	0.3	0	0	0	0	0	0
4/24/2024 14:49	64802	MONE_T2	32	48	16	0.29	0.47	0.18	0	0	0	0	0	0	0	0
4/24/2024 14:49	48302	ORWI_T2	2	3	1	1.8	1.3	-0.5	0.03	0.03	0	0	0	0	0	0
4/24/2024 14:49	48303	ORWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 14:49	13503	MCMI_T2	9	12	3	0.34	0.46	0.12	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 14:49	64801	MONE_T2	7	9	2	0.46	0.38	-0.08	0.21	0.21	0	0	0	0	0	0
4/24/2024 14:50	64801	MONE_T2	7	9	2	0.46	0.38	-0.08	0.21	0.21	0	0	0	0	0	0
4/24/2024 14:50	13503	MCMI_T2	9	12	3	0.34	0.46	0.12	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 14:50	64802	MONE_T2	32	48	16	0.29	0.47	0.18	0	0	0	0	0	0	0	0
4/24/2024 14:51	50201	HARR_T3	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
4/24/2024 14:51	50105	HARR_T3	6	7	1	6.02	5.87	-0.15	0	0	0	0	0	0	0	0
4/24/2024 14:51	50103	HARR_T3	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
4/24/2024 14:51	50107	HARR_T3	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
4/24/2024 14:52	66903	SHIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 14:52	66902	SHIL_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/24/2024 14:52	66901	SHIL_T2	0	2	2	0	0.1	0.1	-0.21	-0.27	0	0	0	0	0	0
4/24/2024 14:53	16302	ALPA_T2	0	7	7	0	0.5	0.5	1.48	1.63	0	0	0	0	0	0
4/24/2024 14:54	45902	AUBU_T1	1	5	4	0.1	0.72	0.62	-0.81	-0.79	1	1	0	600	600	0
4/24/2024 14:54	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 14:55	48302	ORWI_T2	2	3	1	1.8	1.3	-0.5	0	0	0	0	0	0	0	0
4/24/2024 14:55	16302	ALPA_T2	0	7	7	0	0.5	0.5	0.81	0.78	0	0	0	0	0	0
4/24/2024 14:55	64802	MONE_T2	32	48	16	0.29	0.47	0.18	0	0	0	0	0	0	0	0
4/24/2024 14:55	48303	ORWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 14:55	64801	MONE_T2	7	9	2	0.46	0.38	-0.08	0.21	0.22	0	0	0	0	0	0
4/24/2024 14:57	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 14:57	45902	AUBU_T1	1	5	4	0.1	0.72	0.62	-0.81	-0.79	1	1	0	600	600	0
4/24/2024 14:58	23902	EFMO_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/24/2024 14:58	23901	EFMO_T2	1	7	6	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/24/2024 14:59	13801	SALI_T1	0	0	0	0	0	0	0.85	0.88	0	0	0	0	0	0
4/24/2024 14:59	13807	SALI_T1	1	4	3	0.2	0.43	0.23	0	0	0	0	0	0	0	0
4/24/2024 15:00	40101	HUNT_T2	0	0	0	0	0	0	-0.35	-0.41	0	0	0	0	0	0
4/24/2024 15:00	23201	HIRU_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/24/2024 15:00	23202	HIRU_T2	1	1	0	0.3	0.1	-0.2	0.09	0.07	0	0	0	0	0	0
4/24/2024 15:02	41202	KENM_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/24/2024 15:02	40101	HUNT_T2	0	0	0	0	0	0	-0.35	-0.41	0	0	0	0	0	0
4/24/2024 15:02	41204	KENM_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
4/24/2024 15:02	45902	AUBU_T1	5	3	-2	0.64	0.6	-0.04	-0.81	-0.79	1	1	0	600	600	0
4/24/2024 15:02	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 15:03	11205	ELHE_T1	0	0	0	0	0	0	-0.73	-0.78	1	1	0	1200	1200	0
4/24/2024 15:06	65205	PRIN_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/24/2024 15:07	44202	POIN_T2	0	0	0	0	0	0	-1.03	0.25	1	0	-1	1200	0	-1200
4/24/2024 15:08	59202	THOM_T1	18	54	36	0.42	0.18	-0.24	0	0	0	0	0	0	0	0
4/24/2024 15:08	59201	THOM_T1	1	2	1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/24/2024 15:08	14102	TRUM_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/24/2024 15:08	14101	TRUM_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
4/24/2024 15:08	14103	TRUM_T2	2	0	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
4/24/2024 15:09	51102	CARL_T1	2	4	2	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/24/2024 15:09	66203	SISP_T2	1	1	0	0.9	0.2	-0.7	-1.1	-1.01	1	1	0	1200	1200	0
4/24/2024 15:09	51101	CARL_T1	0	0	0	0	0	0	-1.19	-1.23	1	1	0	600	600	0
4/24/2024 15:09	51109	CARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 15:10	10903	COOP_T2	0	4	4	0	0.58	0.58	0	0	0	0	0	0	0	0
4/24/2024 15:10	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 15:10	43103	SMIL_T2	20	22	2	0.72	0.56	-0.16	0	0	0	0	0	0	0	0
4/24/2024 15:10	43104	SMIL_T2	0	6	6	0	0.38	0.38	0	0	0	0	0	0	0	0
4/24/2024 15:10	10901	COOP_T2	0	0	0	0	0	0	1.4	1.34	0	0	0	0	0	0
4/24/2024 15:10	43105	SMIL_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/24/2024 15:10	43101	SMIL_T2	0	4	4	0	1.03	1.03	0	0	0	0	0	0	0	0
4/24/2024 15:10	43102	SMIL_T2	4	7	3	0.43	0.46	0.03	-0.9	-0.91	1	1	0	600	600	0
4/24/2024 15:10	65205	PRIN_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/24/2024 15:11	51305	WIND_T1	2	3	1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/24/2024 15:11	51303	WIND_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
4/24/2024 15:11	51109	CARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 15:11	51301	WIND_T1	7	18	11	0.53	0.44	-0.09	0	0	0	0	0	0	0	0
4/24/2024 15:11	51107	CARL_T1	0	0	0	0	0	0	0.33	0.18	0	0	0	0	0	0
4/24/2024 15:11	51102	CARL_T1	2	4	2	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/24/2024 15:12	51306	WIND_T2	3	2	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/24/2024 15:12	41801	GOCI_T2	147	272	125	0.31	0.62	0.31	0	0	0	0	0	0	0	0
4/24/2024 15:12	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 15:12	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 15:12	45902	AUBU_T1	5	3	-2	0.64	0.6	-0.04	-0.79	-0.89	1	1	0	600	600	0
4/24/2024 15:12	41802	GOCI_T2	10	22	12	0.12	0.22	0.1	0	0	0	0	0	0	0	0
4/24/2024 15:14	41801	GOCI_T2	147	272	125	0.31	0.62	0.31	0	0	0	0	0	0	0	0
4/24/2024 15:14	62605	ENGL_T1	3	5	2	0.37	0.28	-0.09	-0.77	-0.7	0	0	0	0	0	0
4/24/2024 15:14	62602	ENGL_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/24/2024 15:14	41802	GOCI_T2	10	22	12	0.12	0.22	0.1	0	0	0	0	0	0	0	0
4/24/2024 15:14	62607	ENGL_T1	4	2	-2	0.43	0.5	0.07	0	0	0	0	0	0	0	0
4/24/2024 15:15	50501	MECH_T1	4	4	0	0.83	1.05	0.22	0	0	0	0	0	0	0	0
4/24/2024 15:15	50503	MECH_T1	1	1	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
4/24/2024 15:15	50504	MECH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/24/2024 15:15	50502	MECH_T1	1	1	0	2.1	2.4	0.3	0	0	0	0	0	0	0	0
4/24/2024 15:15	50506	MECH_T1	2	0	-2	0.3	0	-0.3	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 15:15	45501	DERR_T2	1	1	0	0.1	0.5	0.4	0.63	0.67	2	2	0	1800	1800	0
4/24/2024 15:16	50504	MECH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/24/2024 15:16	50501	MECH_T1	4	4	0	0.83	1.05	0.22	0	0	0	0	0	0	0	0
4/24/2024 15:16	50506	MECH_T1	2	0	-2	0.3	0	-0.3	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 15:16	50503	MECH_T1	1	1	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
4/24/2024 15:16	50502	MECH_T1	1	1	0	2.1	2.4	0.3	0	0	0	0	0	0	0	0
4/24/2024 15:18	28703	HAML_T2	4	1	-3	0.83	0.1	-0.73	0	0	0	0	0	0	0	0
4/24/2024 15:18	28701	HAML_T2	5	1	-4	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/24/2024 15:18	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 15:18	45902	AUBU_T1	3	1	-2	0.6	0.2	-0.4	-0.79	-0.89	1	1	0	600	600	0
4/24/2024 15:18	28704	HAML_T2	1	1	0	0.7	0.7	0	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 15:19	50504	MECH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/24/2024 15:19	50502	MECH_T1	1	1	0	2.1	2.4	0.3	0	0	0	0	0	0	0	0
4/24/2024 15:19	50506	MECH_T1	2	0	-2	0.3	0	-0.3	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 15:19	50503	MECH_T1	1	1	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
4/24/2024 15:19	50501	MECH_T1	4	4	0	0.83	1.05	0.22	0	0	0	0	0	0	0	0
4/24/2024 15:20	58402	MORO_T1	1	0	-1	0.2	0	-0.2	-0.35	-0.29	2	2	0	1500	1500	0
4/24/2024 15:20	58401	MORO_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/24/2024 15:21	13807	SALI_T1	4	4	0	0.43	0.7	0.27	0	0	0	0	0	0	0	0
4/24/2024 15:21	58001	WCAR_T1	6	8	2	1.12	1.01	-0.11	0	0	0	0	0	0	0	0
4/24/2024 15:21	58003	WCAR_T1	31	48	17	0.26	0.29	0.03	0.8	0.79	0	0	0	0	0	0
4/24/2024 15:21	13801	SALI_T1	0	0	0	0	0	0	0.88	0.91	0	0	0	0	0	0
4/24/2024 15:22	59201	THOM_T1	0	21	21	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 15:22	59202	THOM_T1	33	316	283	0.18	0.26	0.08	0	0	0	0	0	0	0	0
4/24/2024 15:23	58001	WCAR_T1	6	8	2	1.12	1.01	-0.11	0	0	0	0	0	0	0	0
4/24/2024 15:23	58003	WCAR_T1	31	48	17	0.26	0.29	0.03	0.79	0.83	0	0	0	0	0	0
4/24/2024 15:24	60803	BUCK_T1	0	0	0	0	0	0	-0.53	-0.54	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/24/2024 15:24	14702	TREX_T2	0	1	1	0	0.3	0.3	0.7	0.69	0	0	0	0	0	0
4/24/2024 15:24	60801	BUCK_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 15:24	10602	BLGL_T2	3	1	-2	0.87	0.5	-0.37	0.56	0.53	0	0	0	0	0	0
4/24/2024 15:25	58001	WCAR_T1	6	8	2	1.12	1.01	-0.11	0	0	0	0	0	0	0	0
4/24/2024 15:25	58003	WCAR_T1	31	48	17	0.26	0.29	0.03	0.79	0.83	0	0	0	0	0	0
4/24/2024 15:25	46003	BERW_T2	2	18	16	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
4/24/2024 15:25	46004	BERW_T2	0	0	0	0	0	0	0	-0.16	0	0	0	0	0	0
4/24/2024 15:25	46002	BERW_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 15:26	60801	BUCK_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 15:26	60803	BUCK_T1	0	0	0	0	0	0	-0.53	-0.54	1	1	0	600	600	0
4/24/2024 15:27	17901	BART_T1	2	1	-1	0.6	0.6	0	0	0	0	0	0	0	0	0
4/24/2024 15:27	67401	WAKE_T2	10	21	11	0.57	0.32	-0.25	-1.18	-1.15	0	0	0	0	0	0
4/24/2024 15:27	17903	BART_T1	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
4/24/2024 15:27	60803	BUCK_T1	0	0	0	0	0	0	-0.53	-0.54	1	1	0	600	600	0
4/24/2024 15:27	60801	BUCK_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 15:28	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 15:28	45902	AUBU_T1	3	1	-2	0.6	0.2	-0.4	-0.89	-0.89	1	1	0	600	600	0
4/24/2024 15:28	67603	WARW_T1	2	2	0	0.25	0.65	0.4	-0.01	0	0	0	0	0	0	0
4/24/2024 15:28	61503	EPET_T1	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
4/24/2024 15:28	67605	WARW_T1	58	57	-1	0.7	0.71	0.01	0	0	0	0	0	0	0	0
4/24/2024 15:28	61505	EPET_T1	3	6	3	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
4/24/2024 15:28	61502	EPET_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/24/2024 15:29	67605	WARW_T1	58	57	-1	0.7	0.71	0.01	0	0	0	0	0	0	0	0
4/24/2024 15:29	67603	WARW_T1	2	2	0	0.25	0.65	0.4	-0.01	0	0	0	0	0	0	0
4/24/2024 15:30	11803	FRAN_T2	7	8	1	0.47	0.44	-0.03	0	0	0	0	0	0	0	0
4/24/2024 15:30	40902	JESH_T1	0	0	0	0	0	0	-0.56	-0.56	1	1	0	600	600	0
4/24/2024 15:30	67605	WARW_T1	51	54	3	0.76	0.7	-0.06	-1.13	-1.12	0	0	0	0	0	0
4/24/2024 15:30	60101	COCA_T1	5	0	-5	0.56	0	-0.56	0.26	0.25	0	0	0	0	0	0
4/24/2024 15:30	11801	FRAN_T2	1	0	-1	0.1	0	-0.1	0.2	0.32	0	0	0	0	0	0
4/24/2024 15:30	67603	WARW_T1	1	2	1	0.4	0.75	0.35	0	0	0	0	0	0	0	0
4/24/2024 15:31	62605	ENGL_T1	3	1	-2	0.37	0.2	-0.17	-0.7	-0.73	0	0	0	0	0	0
4/24/2024 15:31	67603	WARW_T1	1	2	1	0.4	0.75	0.35	-0.01	0	0	0	0	0	0	0
4/24/2024 15:31	62606	ENGL_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
4/24/2024 15:31	62607	ENGL_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/24/2024 15:31	62602	ENGL_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/24/2024 15:31	67605	WARW_T1	51	54	3	0.76	0.7	-0.06	0	0	0	0	0	0	0	0
4/24/2024 15:32	41902	REED_T1	0	1	1	0	0.8	0.8	1.02	1.04	0	0	0	0	0	0
4/24/2024 15:32	40902	JESH_T1	0	0	0	0	0	0	-0.56	-0.56	1	1	0	600	600	0
4/24/2024 15:32	65503	MOJO_T2	46	4	-42	0.41	0.65	0.24	0	0	0	0	0	0	0	0
4/24/2024 15:32	65502	MOJO_T2	1	0	-1	0.1	0	-0.1	-0.37	-0.45	0	0	0	0	0	0
4/24/2024 15:33	45902	AUBU_T1	1	0	-1	0.2	0	-0.2	-0.89	-0.89	1	1	0	600	600	0
4/24/2024 15:34	27605	PIRI_T2	0	0	0	0	0	0	-0.38	-0.27	1	1	0	900	900	0
4/24/2024 15:35	40902	JESH_T1	0	0	0	0	0	0	-0.56	-0.56	1	1	0	600	600	0
4/24/2024 15:35	58401	MORO_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
4/24/2024 15:35	58402	MORO_T1	0	0	0	0	0	0	-0.29	-0.29	2	2	0	1500	1500	0
4/24/2024 15:35	67605	WARW_T1	51	54	3	0.76	0.7	-0.06	-1.13	-1.12	0	0	0	0	0	0
4/24/2024 15:35	67603	WARW_T1	1	2	1	0.4	0.75	0.35	0	0	0	0	0	0	0	0
4/24/2024 15:36	41902	REED_T1	0	1	1	0	0.8	0.8	1.02	1.04	0	0	0	0	0	0
4/24/2024 15:36	66901	SHIL_T2	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/24/2024 15:36	13503	MCMI_T2	9	11	2	0.5	0.28	-0.22	-0.01	-0.03	0	0	0	0	0	0
4/24/2024 15:36	65502	MOJO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 15:36	66902	SHIL_T2	1	3	2	0.6	0.37	-0.23	0	0	0	0	0	0	0	0
4/24/2024 15:36	66903	SHIL_T2	0	1	1	0	0.1	0.1	-0.94	-0.95	0	0	0	0	0	0
4/24/2024 15:36	65503	MOJO_T2	46	4	-42	0.41	0.65	0.24	-1.27	-0.37	1	0	-1	900	0	-900
4/24/2024 15:37	24201	PROV_T3	1	1	0	7	7	0	-0.13	-0.12	0	0	0	0	0	0
4/24/2024 15:37	24204	PROV_T3	1	2	1	5.3	2.75	-2.55	0	0	0	0	0	0	0	0
4/24/2024 15:37	13503	MCMI_T2	9	11	2	0.5	0.28	-0.22	-0.01	-0.03	0	0	0	0	0	0
4/24/2024 15:39	51102	CARL_T1	1	10	9	0.1	0.34	0.24	0	0	0	0	0	0	0	0
4/24/2024 15:39	51108	CARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 15:39	51101	CARL_T1	0	0	0	0	0	0	-1.1	-1.12	1	1	0	600	600	0
4/24/2024 15:41	20403	ASHF_T2	30	5	-25	0.33	0.2	-0.13	0.93	0.83	0	0	0	0	0	0
4/24/2024 15:41	20401	ASHF_T2	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/24/2024 15:45	67605	WARW_T1	53	48	-5	0.69	0.72	0.03	-1.12	-1.09	0	0	0	0	0	0
4/24/2024 15:45	67603	WARW_T1	2	3	1	0.65	0.83	0.18	0	0	0	0	0	0	0	0
4/24/2024 15:46	64201	KINZ_T1	5	1	-4	0.42	0.2	-0.22	-0.25	0.47	2	1	-1	1200	300	-900
4/24/2024 15:46	64202	KINZ_T1	4	3	-1	0.85	0.37	-0.48	0	0	0	0	0	0	0	0
4/24/2024 15:46	64204	KINZ_T1	3	2	-1	0.83	0.25	-0.58	0	0	0	0	0	0	0	0
4/24/2024 15:47	64202	KINZ_T1	4	3	-1	0.85	0.37	-0.48	0	0	0	0	0	0	0	0
4/24/2024 15:47	64201	KINZ_T1	5	1	-4	0.42	0.2	-0.22	-0.25	0.47	2	1	-1	1200	300	-900
4/24/2024 15:47	64204	KINZ_T1	3	2	-1	0.83	0.25	-0.58	0	0	0	0	0	0	0	0
4/24/2024 15:49	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-1.06	-1.07	1	1	0	600	600	0
4/24/2024 15:49	59201	THOM_T1	21	1	-20	0.2	0.2	0	0	0	0	0	0	0	0	0
4/24/2024 15:49	13807	SALI_T1	4	0	-4	0.4	0	-0.4	0.11	0.11	0	0	0	0	0	0
4/24/2024 15:49	59202	THOM_T1	316	33	-283	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
4/24/2024 15:51	57401	SPAN_T1	5	5	0	1.08	0.88	-0.2	-1	-1.04	1	1	0	600	600	0
4/24/2024 15:51	57403	SPAN_T1	155	132	-23	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/24/2024 15:51	58401	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 15:51	58402	MORO_T1	0	0	0	0	0	0	-0.29	-0.28	2	2	0	1500	1500	0
4/24/2024 15:52	59002	MIFF_T1	6	1	-5	0.78	0.1	-0.68	0	0	0	0	0	0	0	0
4/24/2024 15:52	59001	MIFF_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
4/24/2024 15:52	59003	MIFF_T1	1	1	0	0.6	0	-0.6	0.64	0.72	0	0	0	0	0	0
4/24/2024 15:53	57401	SPAN_T1	5	5	0	1.08	0.88	-0.2	-1.04	-0.99	1	1	0	600	600	0
4/24/2024 15:53	57403	SPAN_T1	155	132	-23	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/24/2024 15:54	54601	SUMM_T2	14	14	0	0.87	0.78	-0.09	0	0	0	0	0	0	0	0
4/24/2024 15:54	54602	SUMM_T2	18	16	-2	0.39	0.3	-0.09	-2.46	-2.45	1	1	0	600	600	0
4/24/2024 15:55	57403	SPAN_T1	155	132	-23	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/24/2024 15:55	57401	SPAN_T1	5	5	0	1.08	0.88	-0.2	-1.04	-0.99	1	1	0	600	600	0
4/24/2024 15:56	57403	SPAN_T1	155	132	-23	0.3	0.27	-0.03	-0.05	-0.05	0	0	0	0	0	0
4/24/2024 15:56	57401	SPAN_T1	5	5	0	1.08	0.88	-0.2	-1.04	-0.99	1	1	0	600	600	0
4/24/2024 15:56	57404	SPAN_T2	0	0	0	0	0	0	0.32	0.33	1	1	0	1200	1200	0
4/24/2024 15:57	46001	BERW_T1	0	0	0	0	0	0	0.79	0.76	0	0	0	0	0	0
4/24/2024 15:57	10903	COOP_T2	2	28	26	0.7	0.19	-0.51	-0.26	-0.34	1	1	0	600	600	0
4/24/2024 15:57	62607	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 15:57	62605	ENGL_T1	1	0	-1	0.2	0	-0.2	-0.76	-0.8	0	0	0	0	0	0
4/24/2024 15:58	50503	MECH_T1	1	3	2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/24/2024 15:58	50501	MECH_T1	4	4	0	1.05	1.23	0.18	0	0	0	0	0	0	0	0
4/24/2024 15:58	50506	MECH_T1	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
4/24/2024 15:58	50505	MECH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/24/2024 15:58	50504	MECH_T1	1	4	3	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
4/24/2024 15:58	50502	MECH_T1	1	1	0	2.4	2.4	0	-0.12	-0.1	0	0	0	0	0	0
4/24/2024 15:59	67603	WARW_T1	2	3	1	0.65	0.83	0.18	0	0	0	0	0	0	0	0
4/24/2024 15:59	67605	WARW_T1	53	48	-5	0.69	0.72	0.03	-1.09	-1.1	0	0	0	0	0	0
4/24/2024 16:00	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 16:02	46001	BERW_T1	0	0	0	0	0	0	0.79	0.76	0	0	0	0	0	0
4/24/2024 16:04	40902	JESH_T1	0	0	0	0	0	0	-0.63	-0.65	1	1	0	600	600	0
4/24/2024 16:07	58402	MORO_T1	0	0	0	0	0	0	-0.28	-0.26	2	2	0	1500	1500	0
4/24/2024 16:09	17902	BART_T2	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
4/24/2024 16:10	22003	BOHE_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/24/2024 16:10	22001	BOHE_T1	0	0	0	0	0	0	-0.5	-0.5	1	1	0	600	600	0
4/24/2024 16:10	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.89	-0.92	1	1	0	600	600	0
4/24/2024 16:11	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.89	-0.92	1	1	0	600	600	0
4/24/2024 16:14	67605	WARW_T1	47	44	-3	0.69	0.74	0.05	-1.1	-1.02	0	0	0	0	0	0
4/24/2024 16:14	67603	WARW_T1	2	3	1	0.75	0.83	0.08	0	0	0	0	0	0	0	0
4/24/2024 16:15	45902	AUBU_T1	1	0	-1	0.4	0	-0.4	-0.89	-0.92	1	1	0	600	600	0
4/24/2024 16:16	45902	AUBU_T1	1	0	-1	0.4	0	-0.4	-0.89	-0.92	1	1	0	600	600	0
4/24/2024 16:17	26703	HEML_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	600	600	0
4/24/2024 16:19	67605	WARW_T1	44	31	-13	0.74	0.77	0.03	-1.1	-1.02	0	0	0	0	0	0
4/24/2024 16:19	67603	WARW_T1	3	2	-1	0.83	0.75	-0.08	0	0	0	0	0	0	0	0
4/24/2024 16:20	43201	MVIL_T2	1	5	4	0.3	0.44	0.14	0	0	0	0	0	0	0	0
4/24/2024 16:20	43202	MVIL_T2	178	186	8	0.88	1.07	0.19	-0.66	-0.69	0	0	0	0	0	0
4/24/2024 16:21	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 16:21	67603	WARW_T1	3	2	-1	0.83	0.75	-0.08	0.03	0	0	0	0	0	0	0
4/24/2024 16:21	67605	WARW_T1	44	31	-13	0.74	0.77	0.03	0	0	0	0	0	0	0	0
4/24/2024 16:25	51305	WIND_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/24/2024 16:25	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 16:25	51301	WIND_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/24/2024 16:26	51301	WIND_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/24/2024 16:26	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 16:26	51305	WIND_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/24/2024 16:28	62607	ENGL_T1	1	0	-1	0.1	0	-0.1	-0.84	-0.83	0	0	0	0	0	0
4/24/2024 16:28	62605	ENGL_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/24/2024 16:29	67603	WARW_T1	3	2	-1	0.83	0.75	-0.08	0	0	0	0	0	0	0	0
4/24/2024 16:29	67605	WARW_T1	44	31	-13	0.74	0.77	0.03	-1.02	-1.04	0	0	0	0	0	0
4/24/2024 16:31	63403	HONY_T2	0	1	1	0	0.1	0.1	-0.61	-0.59	1	1	0	600	600	0
4/24/2024 16:31	63402	HONY_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
4/24/2024 16:34	67605	WARW_T1	30	26	-4	0.79	0.58	-0.21	-1.02	-1.04	0	0	0	0	0	0
4/24/2024 16:34	67603	WARW_T1	2	2	0	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
4/24/2024 16:35	63801	HEMP_T1	10	13	3	0.38	0.38	0	0	0	0	0	0	0	0	0
4/24/2024 16:35	63802	HEMP_T1	2	4	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/24/2024 16:35	56501	ROCK_T2	2	3	1	1	0.7	-0.3	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 16:35	56503	ROCK_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/24/2024 16:35	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 16:35	63804	HEMP_T1	6	3	-3	1.12	2.07	0.95	0	0	0	0	0	0	0	0
4/24/2024 16:35	63803	HEMP_T1	8	6	-2	0.26	0.23	-0.03	0.14	0.21	0	0	0	0	0	0
4/24/2024 16:36	66502	SMAN_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/24/2024 16:36	66501	SMAN_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/24/2024 16:36	66505	SMAN_T2	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
4/24/2024 16:36	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 16:36	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
4/24/2024 16:37	47403	PENS_T1	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
4/24/2024 16:37	47401	PENS_T1	5	2	-3	0.76	0.55	-0.21	1.13	1.09	0	0	0	0	0	0
4/24/2024 16:37	47402	PENS_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/24/2024 16:38	47403	PENS_T1	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
4/24/2024 16:38	47401	PENS_T1	5	2	-3	0.76	0.55	-0.21	2.26	2.19	0	0	0	0	0	0
4/24/2024 16:38	67204	TEHI_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/24/2024 16:38	47402	PENS_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/24/2024 16:38	20403	ASHF_T2	90	34	-56	0.28	0.65	0.37	0.14	0.28	0	0	0	0	0	0
4/24/2024 16:38	67202	TEHI_T2	0	0	0	0	0	0	0.06	0.02	1	1	0	900	900	0
4/24/2024 16:38	20401	ASHF_T2	3	1	-2	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
4/24/2024 16:39	67502	WEWI_T2	199	143	-56	0.24	0.22	-0.02	-0.45	-0.47	0	0	0	0	0	0
4/24/2024 16:39	58402	MORO_T1	0	0	0	0	0	0	-0.31	-0.27	2	2	0	1500	1500	0
4/24/2024 16:42	45902	AUBU_T1	0	0	0	0	0	0	-0.94	-0.96	1	1	0	600	600	0
4/24/2024 16:43	45902	AUBU_T1	0	0	0	0	0	0	-0.94	-0.96	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/24/2024 16:44	60802	BUCK_T2	0	1	1	0	0.1	0.1	0.27	0.14	0	0	0	0	0	0
4/24/2024 16:45	52502	PROG_T2	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
4/24/2024 16:45	46506	LOHA_T1	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
4/24/2024 16:45	64302	LINC_T2	0	0	0	0	0	0	1.07	1.08	0	0	0	0	0	0
4/24/2024 16:45	46504	LOHA_T1	10	2	-8	0.36	0.8	0.44	0	0	0	0	0	0	0	0
4/24/2024 16:46	46506	LOHA_T1	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
4/24/2024 16:46	46504	LOHA_T1	10	2	-8	0.36	0.8	0.44	0	0	0	0	0	0	0	0
4/24/2024 16:47	46506	LOHA_T1	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
4/24/2024 16:47	45902	AUBU_T1	0	1	1	0	0.6	0.6	-0.94	-0.96	1	1	0	600	600	0
4/24/2024 16:47	46504	LOHA_T1	10	2	-8	0.36	0.8	0.44	0	0	0	0	0	0	0	0
4/24/2024 16:48	56501	ROCK_T2	3	2	-1	0.67	1	0.33	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 16:48	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 16:48	45902	AUBU_T1	0	1	1	0	0.6	0.6	-0.94	-0.96	1	1	0	600	600	0
4/24/2024 16:48	56503	ROCK_T2	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
4/24/2024 16:51	12505	MITR_T2	0	0	0	0	0	0	1.08	1.13	0	0	0	0	0	0
4/24/2024 16:51	12502	MITR_T2	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
4/24/2024 16:51	65603	QVIL_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
4/24/2024 16:53	16101	BING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 16:53	16102	BING_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
4/24/2024 16:54	61202	REIN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 16:55	47403	PENS_T1	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/24/2024 16:55	47401	PENS_T1	2	2	0	0.45	0.5	0.05	0.99	0.97	0	0	0	0	0	0
4/24/2024 16:55	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.54	1	1	0	900	900	0
4/24/2024 16:55	61304	EARL_T1	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/24/2024 16:55	47402	PENS_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/24/2024 16:58	61103	BERK_T5	5	2	-3	0.22	0.25	0.03	0.07	0.03	0	0	0	0	0	0
4/24/2024 16:58	61304	EARL_T1	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/24/2024 16:58	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.54	1	1	0	900	900	0
4/24/2024 16:59	50503	MECH_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
4/24/2024 16:59	61103	BERK_T5	5	2	-3	0.22	0.25	0.03	0.07	0.03	0	0	0	0	0	0
4/24/2024 16:59	61304	EARL_T1	2	1	-1	0.3	0.1	-0.2	-0.86	-0.98	1	1	0	600	600	0
4/24/2024 16:59	50502	MECH_T1	1	1	0	2.5	2.3	-0.2	0	0	0	0	0	0	0	0
4/24/2024 16:59	50506	MECH_T1	2	1	-1	0.35	0.9	0.55	0.17	-0.1	0	0	0	0	0	0
4/24/2024 16:59	50501	MECH_T1	4	4	0	1.03	0.88	-0.15	0	0	0	0	0	0	0	0
4/24/2024 17:01	61103	BERK_T5	2	1	-1	0.25	0.1	-0.15	0.07	0.03	0	0	0	0	0	0
4/24/2024 17:01	25402	LAHA_T2	0	1	1	0	0.3	0.3	-0.86	-0.77	0	0	0	0	0	0
4/24/2024 17:01	50503	MECH_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/24/2024 17:01	50506	MECH_T1	1	0	-1	0.9	0	-0.9	0.17	-0.1	0	0	0	0	0	0
4/24/2024 17:01	50501	MECH_T1	4	4	0	0.88	0.68	-0.2	0	0	0	0	0	0	0	0
4/24/2024 17:01	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
4/24/2024 17:01	50502	MECH_T1	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
4/24/2024 17:02	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
4/24/2024 17:06	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 17:06	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 17:06	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 17:06	56501	ROCK_T2	2	2	0	1	0.9	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 17:07	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 17:07	56501	ROCK_T2	2	2	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
4/24/2024 17:07	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 17:07	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 17:08	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 17:08	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 17:08	64101	REFR_T1	0	1	1	0	0.2	0.2	-1.01	-0.99	0	0	0	0	0	0
4/24/2024 17:08	56501	ROCK_T2	2	2	0	1	0.9	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 17:08	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 17:10	57403	SPAN_T1	89	40	-49	0.25	0.26	0.01	-0.05	-0.03	0	0	0	0	0	0
4/24/2024 17:10	46001	BERW_T1	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
4/24/2024 17:10	57401	SPAN_T1	2	2	0	0.65	0.8	0.15	0	0	0	0	0	0	0	0
4/24/2024 17:10	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 17:12	45802	HEGI_T2	38	13	-25	0.62	0.46	-0.16	0.68	0.72	0	0	0	0	0	0
4/24/2024 17:13	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 17:13	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 17:13	56501	ROCK_T2	2	2	0	1	0.9	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 17:13	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 17:15	46001	BERW_T1	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
4/24/2024 17:16	45802	HEGI_T2	12	35	23	0.42	0.64	0.22	0.68	0.72	0	0	0	0	0	0
4/24/2024 17:18	44201	POIN_T1	232	313	81	0.24	0.28	0.04	-2.34	-2.37	2	2	0	2100	2100	0
4/24/2024 17:19	44201	POIN_T1	232	313	81	0.24	0.28	0.04	-2.34	-2.37	2	2	0	2100	2100	0
4/24/2024 17:23	59101	WALK_T2	0	0	0	0	0	0	1.28	1.35	0	0	0	0	0	0
4/24/2024 17:26	47401	PENS_T1	0	0	0	0	0	0	0.88	0.82	0	0	0	0	0	0
4/24/2024 17:26	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
4/24/2024 17:34	43202	MVIL_T2	85	96	11	0.62	0.83	0.21	-0.76	-0.77	0	0	0	0	0	0
4/24/2024 17:39	45902	AUBU_T1	1	1	0	0.4	0.5	0.1	-1.08	-1.12	1	1	0	600	600	0
4/24/2024 17:40	29402	BELT_T1	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
4/24/2024 17:41	45902	AUBU_T1	1	1	0	0.4	0.5	0.1	-1.08	-1.12	1	1	0	600	600	0
4/24/2024 17:42	20403	ASHF_T2	32	33	1	0.53	0.66	0.13	0.06	0.05	0	0	0	0	0	0
4/24/2024 17:42	45902	AUBU_T1	1	1	0	0.4	0.5	0.1	-1.08	-1.12	1	1	0	600	600	0
4/24/2024 17:43	46203	DANV_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/24/2024 17:45	45902	AUBU_T1	1	2	1	0.5	0.1	-0.4	-1.08	-1.12	1	1	0	600	600	0
4/24/2024 17:46	45902	AUBU_T1	1	2	1	0.5	0.1	-0.4	-1.08	-1.12	1	1	0	600	600	0
4/24/2024 17:47	12006	HATF_T1	0	0	0	0	0	0	0.17	0.2	1	1	0	1200	1200	0
4/24/2024 17:47	12001	HATF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 17:49	44201	POIN_T1	303	598	295	0.29	0.41	0.12	-2.4	-2.49	2	2	0	2100	2100	0
4/24/2024 17:51	48302	ORWI_T2	2	2	0	0.7	1.1	0.4	-0.11	-0.08	0	0	0	0	0	0
4/24/2024 17:56	62607	ENGL_T1	0	0	0	0	0	0	-0.84	-0.82	0	0	0	0	0	0
4/24/2024 17:57	62607	ENGL_T1	0	0	0	0	0	0	-1.68	-1.64	0	0	0	0	0	0
4/24/2024 17:57	40701	FFLD_T1	1	7	6	0.1	0.1	0	0	0	0	0	0	0	0	0
4/24/2024 17:57	40703	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 17:57	62605	ENGL_T1	0	0	0	0	0	0	-0.71	-0.78	0	0	0	0	0	0
4/24/2024 17:57	40702	FFLD_T1	1	3	2	0.2	0.13	-0.07	-0.74	-0.7	1	1	0	1200	1200	0
4/24/2024 17:57	46001	BERW_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
4/24/2024 17:58	10702	CATA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/24/2024 17:58	10705	CATA_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
4/24/2024 17:59	40101	HUNT_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
4/24/2024 18:00	40101	HUNT_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
4/24/2024 18:03	48302	ORWI_T2	2	2	0	0.95	1.1	0.15	-0.08	-0.11	0	0	0	0	0	0
4/24/2024 18:04	46302	ROHR_T1	5	6	1	2.06	1.82	-0.24	0	0	0	0	0	0	0	0
4/24/2024 18:04	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/24/2024 18:04	46301	ROHR_T1	72	77	5	0.17	0.18	0.01	0.12	0.13	0	0	0	0	0	0
4/24/2024 18:05	46301	ROHR_T1	72	77	5	0.17	0.18	0.01	0.12	0.13	0	0	0	0	0	0
4/24/2024 18:05	46302	ROHR_T1	5	6	1	2.06	1.82	-0.24	0	0	0	0	0	0	0	0
4/24/2024 18:07	16605	PONO_T1	0	0	0	0	0	0	-0.5	-0.54	1	1	0	1200	1200	0
4/24/2024 18:07	65205	PRIN_T1	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
4/24/2024 18:07	65202	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 18:07	41903	REED_T1	0	0	0	0	0	0	-0.32	-0.31	1	1	0	1200	1200	0
4/24/2024 18:10	22001	BOHE_T1	0	0	0	0	0	0	-0.5	-0.5	1	1	0	600	600	0
4/24/2024 18:10	22003	BOHE_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/24/2024 18:11	46203	DANV_T2	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
4/24/2024 18:14	62605	ENGL_T1	0	0	0	0	0	0	-0.78	-0.71	0	0	0	0	0	0
4/24/2024 18:15	64701	LITI_T1	0	0	0	0	0	0	0.46	0.41	0	0	0	0	0	0
4/24/2024 18:16	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 18:16	62605	ENGL_T1	0	0	0	0	0	0	-0.78	-0.71	0	0	0	0	0	0
4/24/2024 18:17	12601	MACA_T1	0	0	0	0	0	0	0.67	0.63	0	0	0	0	0	0
4/24/2024 18:21	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 18:21	62605	ENGL_T1	0	0	0	0	0	0	-0.78	-0.71	0	0	0	0	0	0
4/24/2024 18:22	58001	WCAR_T1	6	8	2	1.15	0.94	-0.21	0	0	0	0	0	0	0	0
4/24/2024 18:22	65603	QVIL_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
4/24/2024 18:22	58003	WCAR_T1	57	62	5	0.27	0.29	0.02	0.67	0.64	0	0	0	0	0	0
4/24/2024 18:28	62607	ENGL_T1	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
4/24/2024 18:28	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 18:29	62605	ENGL_T1	0	0	0	0	0	0	-0.71	-0.75	0	0	0	0	0	0
4/24/2024 18:29	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 18:31	63804	HEMP_T1	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
4/24/2024 18:31	64802	MONE_T2	79	203	124	0.12	0.17	0.05	0.07	0.06	0	0	0	0	0	0
4/24/2024 18:31	63803	HEMP_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
4/24/2024 18:31	64801	MONE_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/24/2024 18:32	62605	ENGL_T1	0	0	0	0	0	0	-0.71	-0.75	0	0	0	0	0	0
4/24/2024 18:34	65802	RTWN_T2	0	0	0	0	0	0	-0.55	-0.58	0	0	0	0	0	0
4/24/2024 18:34	46502	LOHA_T1	0	0	0	0	0	0	-1.41	-1.35	1	1	0	1200	1200	0
4/24/2024 18:34	46504	LOHA_T1	2	5	3	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
4/24/2024 18:34	46506	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/24/2024 18:37	66903	SHIL_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
4/24/2024 18:37	66902	SHIL_T2	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
4/24/2024 18:38	66902	SHIL_T2	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
4/24/2024 18:38	66903	SHIL_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
4/24/2024 18:39	66902	SHIL_T2	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
4/24/2024 18:39	66903	SHIL_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
4/24/2024 18:42	45902	AUBU_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	600	600	0
4/24/2024 18:43	45902	AUBU_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	600	600	0
4/24/2024 18:44	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.05	0	0	0	0	0	0
4/24/2024 18:47	67604	WARW_T1	0	0	0	0	0	0	0.64	0.68	0	0	0	0	0	0
4/24/2024 18:47	67605	WARW_T1	19	40	21	0.56	0.6	0.04	0	0	0	0	0	0	0	0
4/24/2024 18:48	45902	AUBU_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	600	600	0
4/24/2024 18:49	52502	PROG_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
4/24/2024 18:49	45902	AUBU_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	600	600	0
4/24/2024 19:04	48301	ORWI_T1	2	2	0	4	3.95	-0.05	0	0	0	0	0	0	0	0
4/24/2024 19:14	61304	EARL_T1	0	0	0	0	0	0	-0.98	-0.96	1	1	0	600	600	0
4/24/2024 19:18	52004	LING_T2	1	1	0	0.5	0.5	0	0.1	0.1	0	0	0	0	0	0
4/24/2024 19:18	52006	LING_T2	2	2	0	1.35	1.5	0.15	0	0	0	0	0	0	0	0
4/24/2024 19:18	52002	LING_T2	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
4/24/2024 19:20	61302	EARL_T1	0	0	0	0	0	0	-0.17	-0.15	2	2	0	1800	1800	0
4/24/2024 19:27	15001	BLMO_T1	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/24/2024 20:22	52001	LING_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
4/24/2024 20:22	66901	SHIL_T2	1	0	-1	0.1	0	-0.1	-0.43	-0.45	0	0	0	0	0	0
4/24/2024 20:22	66903	SHIL_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/24/2024 20:27	60701	BREC_T1	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
4/24/2024 20:30	60701	BREC_T1	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
4/24/2024 20:38	23001	SAUG_T1	0	0	0	0	0	0	-0.02	0.06	0	0	0	0	0	0
4/24/2024 20:39	45501	DERR_T2	0	1	1	0	0	0	0.36	0.36	2	2	0	1800	1800	0
4/24/2024 20:45	62102	ELAN_T1	0	1	1	0	0.1	0.1	1.64	1.41	0	0	0	0	0	0
4/24/2024 20:45	62105	ELAN_T1	92	177	85	0.14	0.23	0.09	0	0	0	0	0	0	0	0
4/24/2024 20:45	62103	ELAN_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/24/2024 20:45	62106	ELAN_T1	4	16	12	0.15	0.18	0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/24/2024 20:45	13303	ORVI_T1	0	0	0	0	0	0	0.85	0.84	0	0	0	0	0	0
4/24/2024 20:45	62101	ELAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/24/2024 20:55	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/24/2024 20:55	15103	UPHA_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
4/24/2024 20:57	43302	WATS_T2	4	4	0	0.18	0.43	0.25	0	0	0	0	0	0	0	0
4/24/2024 20:57	43304	WATS_T2	0	0	0	0	0	0	-0.4	-0.43	0	0	0	0	0	0
4/24/2024 21:01	11201	ELHE_T2	0	0	0	0	0	0	-0.05	-0.11	2	2	0	2400	2400	0
4/24/2024 21:07	54201	PENN_T1	11	10	-1	1.4	0.51	-0.89	0	0	0	0	0	0	0	0
4/24/2024 21:07	54203	PENN_T1	18	18	0	1.4	0.81	-0.59	0.62	0.58	0	0	0	0	0	0
4/24/2024 21:10	46301	ROHR_T1	0	74	74	0	0.17	0.17	0	0	0	0	0	0	0	0
4/24/2024 21:10	46302	ROHR_T1	4	5	1	2.23	2.2	-0.03	0.14	0.13	0	0	0	0	0	0
4/24/2024 21:11	43103	SMIL_T2	16	18	2	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
4/24/2024 21:11	43102	SMIL_T2	6	8	2	0.48	0.56	0.08	-0.96	-0.96	1	1	0	600	600	0
4/24/2024 21:12	43102	SMIL_T2	6	8	2	0.48	0.56	0.08	-0.96	-0.96	1	1	0	600	600	0
4/24/2024 21:12	43103	SMIL_T2	16	18	2	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
4/24/2024 21:15	45702	LIND_T2	1	1	0	0.2	0.4	0.2	-0.54	-0.55	0	0	0	0	0	0
4/24/2024 21:15	45701	LIND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:16	45702	LIND_T2	1	1	0	0.2	0.4	0.2	-0.54	-0.55	0	0	0	0	0	0
4/24/2024 21:16	45701	LIND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:17	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
4/24/2024 21:17	45702	LIND_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/24/2024 21:17	63802	HEMP_T1	0	0	0	0	0	0	0.22	0.14	0	0	0	0	0	0
4/24/2024 21:17	45701	LIND_T2	0	1	1	0	0	0	0.29	0.28	0	0	0	0	0	0
4/24/2024 21:22	45701	LIND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:22	45702	LIND_T2	1	1	0	0.2	0.4	0.2	-1.09	-1.09	0	0	0	0	0	0
4/24/2024 21:26	46001	BERW_T1	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
4/24/2024 21:27	11301	EMMA_T1	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
4/24/2024 21:27	11302	EMMA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:28	57403	SPAN_T1	82	41	-41	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/24/2024 21:28	57401	SPAN_T1	2	2	0	0.45	0.5	0.05	-1.02	-0.99	1	1	0	600	600	0
4/24/2024 21:29	11302	EMMA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:29	11301	EMMA_T1	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
4/24/2024 21:30	54601	SUMM_T2	12	13	1	0.93	1.15	0.22	-2.02	-2.03	2	2	0	2100	2100	0
4/24/2024 21:30	59302	MCAL_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
4/24/2024 21:30	54602	SUMM_T2	7	8	1	0.29	0.23	-0.06	0	0	0	0	0	0	0	0
4/24/2024 21:30	59301	MCAL_T1	2	26	24	0.55	0.17	-0.38	-1.23	-1.24	0	0	0	0	0	0
4/24/2024 21:30	54502	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/24/2024 21:30	54603	SUMM_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/24/2024 21:30	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
4/24/2024 21:30	54501	ENOL_T2	0	3	3	0	0.13	0.13	0.07	0.06	0	0	0	0	0	0
4/24/2024 21:30	46004	BERW_T2	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
4/24/2024 21:31	13502	MCMI_T1	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/24/2024 21:31	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/24/2024 21:32	65502	MOJO_T2	0	25	25	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:32	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
4/24/2024 21:32	54501	ENOL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/24/2024 21:32	66203	SISP_T2	0	0	0	0	0	0	-1.26	-1.4	1	1	0	1200	1200	0
4/24/2024 21:32	54502	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/24/2024 21:32	54503	ENOL_T2	0	0	0	0	0	0	-1.32	-1.3	1	1	0	600	600	0
4/24/2024 21:32	65503	MOJO_T2	14	24	10	0.14	0.31	0.17	-0.55	-0.53	0	0	0	0	0	0
4/24/2024 21:33	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
4/24/2024 21:33	54502	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/24/2024 21:33	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
4/24/2024 21:33	64302	LINC_T2	0	0	0	0	0	0	1	0.92	0	0	0	0	0	0
4/24/2024 21:33	64702	LITI_T2	0	0	0	0	0	0	-0.58	-0.7	0	0	0	0	0	0
4/24/2024 21:33	54503	ENOL_T2	0	0	0	0	0	0	-1.32	-1.3	1	1	0	600	600	0
4/24/2024 21:33	54501	ENOL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/24/2024 21:34	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:35	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
4/24/2024 21:35	54502	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/24/2024 21:35	54501	ENOL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/24/2024 21:35	54503	ENOL_T2	0	0	0	0	0	0	-1.32	-1.3	1	1	0	600	600	0
4/24/2024 21:35	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:36	63801	HEMP_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:36	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:36	61303	EARL_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
4/24/2024 21:36	63804	HEMP_T1	1	5	4	5.8	1.2	-4.6	0	0	0	0	0	0	0	0
4/24/2024 21:36	61304	EARL_T1	0	0	0	0	0	0	-1.07	-1.06	1	1	0	600	600	0
4/24/2024 21:36	63803	HEMP_T1	0	3	3	0	0.1	0.1	0.59	0.57	0	0	0	0	0	0
4/24/2024 21:37	44502	HAMI_T2	1	1	0	3.6	3.7	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:37	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:37	63803	HEMP_T1	0	3	3	0	0.1	0.1	0.59	0.57	0	0	0	0	0	0
4/24/2024 21:37	59302	MCAL_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
4/24/2024 21:37	59301	MCAL_T1	2	26	24	0.55	0.17	-0.38	-1.23	-1.24	0	0	0	0	0	0
4/24/2024 21:37	65503	MOJO_T2	14	24	10	0.14	0.31	0.17	-0.55	-0.53	0	0	0	0	0	0
4/24/2024 21:37	65502	MOJO_T2	0	25	25	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:37	63801	HEMP_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:37	60902	DONG_T2	0	1	1	0	0.1	0.1	0.51	0.46	0	0	0	0	0	0
4/24/2024 21:37	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:37	63804	HEMP_T1	1	5	4	5.8	1.2	-4.6	0.41	0.34	0	0	0	0	0	0
4/24/2024 21:37	44504	HAMI_T2	0	0	0	0	0	0	-1.42	-1.43	0	0	0	0	0	0
4/24/2024 21:38	64702	LITI_T2	0	0	0	0	0	0	-1.39	-1.33	0	0	0	0	0	0
4/24/2024 21:38	67605	WARW_T1	15	13	-2	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
4/24/2024 21:38	62606	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 21:38	46004	BERW_T2	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
4/24/2024 21:38	62607	ENGL_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:38	67603	WARW_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
4/24/2024 21:38	44601	SALE_T2	1	1	0	1	0.9	-0.1	-0.13	-0.15	0	0	0	0	0	0
4/24/2024 21:38	62605	ENGL_T1	1	5	4	0.1	0.12	0.02	-0.85	-0.86	0	0	0	0	0	0
4/24/2024 21:38	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:38	60101	COCA_T1	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
4/24/2024 21:39	59002	MIFF_T1	5	6	1	0.32	0.35	0.03	0	0	0	0	0	0	0	0
4/24/2024 21:39	59003	MIFF_T1	1	1	0	0.4	0.5	0.1	0.36	0.38	0	0	0	0	0	0
4/24/2024 21:39	57403	SPAN_T1	40	29	-11	0.3	0.3	0	0	0	0	0	0	0	0	0
4/24/2024 21:39	57401	SPAN_T1	2	2	0	0.5	0.55	0.05	-0.99	-1.03	1	1	0	600	600	0
4/24/2024 21:39	44201	POIN_T1	4	23	19	0.15	0.13	-0.02	-1.51	-1.51	1	1	0	1200	1200	0
4/24/2024 21:39	10801	CHHI_T1	0	0	0	0	0	0	-1.06	-1.08	1	1	0	900	900	0
4/24/2024 21:39	42902	MIDD_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
4/24/2024 21:39	42903	MIDD_T2	2	0	-2	0.85	0	-0.85	0	0	0	0	0	0	0	0
4/24/2024 21:40	54506	ENOL_T2	0	0	0	0	0	0	0.51	0.47	1	1	0	600	600	0
4/24/2024 21:40	62605	ENGL_T1	1	5	4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
4/24/2024 21:40	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:40	63803	HEMP_T1	0	3	3	0	0.1	0.1	0.57	0.55	0	0	0	0	0	0
4/24/2024 21:40	54502	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/24/2024 21:40	63801	HEMP_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:40	63804	HEMP_T1	1	5	4	5.8	1.2	-4.6	0	0	0	0	0	0	0	0
4/24/2024 21:40	62606	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 21:40	54501	ENOL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/24/2024 21:40	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
4/24/2024 21:40	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:40	66502	SMAN_T2	0	0	0	0	0	0	-0.17	0.03	0	0	0	0	0	0
4/24/2024 21:40	59201	THOM_T1	13	20	7	0.18	0.36	0.18	0	0	0	0	0	0	0	0
4/24/2024 21:40	60101	COCA_T1	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
4/24/2024 21:40	62607	ENGL_T1	0	7	7	0	0.1	0.1	-1.74	-1.78	0	0	0	0	0	0
4/24/2024 21:40	64701	LITI_T1	0	0	0	0	0	0	0.23	0.08	0	0	0	0	0	0
4/24/2024 21:40	59202	THOM_T1	199	306	107	0.2	0.38	0.18	0	0	0	0	0	0	0	0
4/24/2024 21:41	42802	SELI_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/24/2024 21:41	53903	HALI_T2	2	2	0	1.2	1.45	0.25	0	0	0	0	0	0	0	0
4/24/2024 21:41	61301	EARL_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
4/24/2024 21:41	50103	HARR_T3	2	2	0	1.15	1.15	0	-1.05	-1.12	1	1	0	1200	1200	0
4/24/2024 21:41	63803	HEMP_T1	0	3	3	0	0.1	0.1	0.57	0.55	0	0	0	0	0	0
4/24/2024 21:41	63804	HEMP_T1	1	5	4	5.8	1.2	-4.6	0	0	0	0	0	0	0	0
4/24/2024 21:41	50201	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/24/2024 21:41	50202	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/24/2024 21:41	63801	HEMP_T1	0	3	3	0	0.1	0.1	0.18	-0.09	0	0	0	0	0	0
4/24/2024 21:41	53902	HALI_T2	1	1	0	5.3	5.7	0.4	0	0	0	0	0	0	0	0
4/24/2024 21:41	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:41	53901	HALI_T2	1	1	0	0.7	0.9	0.2	-0.48	-0.49	0	0	0	0	0	0
4/24/2024 21:41	61304	EARL_T1	0	0	0	0	0	0	-1.06	-1.11	1	1	0	600	600	0
4/24/2024 21:41	47401	PENS_T1	0	0	0	0	0	0	0.77	0.77	0	0	0	0	0	0
4/24/2024 21:41	50102	HARR_T3	9	8	-1	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
4/24/2024 21:41	67605	WARW_T1	15	13	-2	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
4/24/2024 21:41	21901	HUMB_T1	0	0	0	0	0	0	-0.99	-1	0	0	0	0	0	0
4/24/2024 21:41	67604	WARW_T1	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
4/24/2024 21:41	66502	SMAN_T2	0	0	0	0	0	0	-0.17	0.03	0	0	0	0	0	0
4/24/2024 21:41	50105	HARR_T3	6	6	0	5.88	5.6	-0.28	0	0	0	0	0	0	0	0
4/24/2024 21:41	47403	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:42	42802	SELI_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/24/2024 21:42	64901	MILL_T1	39	81	42	0.18	0.33	0.15	0	0	0	0	0	0	0	0
4/24/2024 21:42	43301	WATS_T2	0	0	0	0	0	0	-0.86	-0.83	1	1	0	900	900	0
4/24/2024 21:42	61506	EPET_T2	88	0	-88	0.13	0	-0.13	-0.17	-0.2	0	0	0	0	0	0
4/24/2024 21:42	46001	BERW_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
4/24/2024 21:42	43102	SMIL_T2	7	9	2	0.59	0.68	0.09	-0.97	-1.01	1	1	0	600	600	0
4/24/2024 21:42	47403	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:42	43302	WATS_T2	4	4	0	0.53	0.73	0.2	0	0	0	0	0	0	0	0
4/24/2024 21:42	44201	POIN_T1	4	23	19	0.15	0.13	-0.02	-1.51	-1.51	1	1	0	1200	1200	0
4/24/2024 21:42	47401	PENS_T1	0	0	0	0	0	0	2.31	2.31	0	0	0	0	0	0
4/24/2024 21:42	64904	MILL_T1	3	28	25	0.1	0.19	0.09	0.42	0.41	0	0	0	0	0	0
4/24/2024 21:42	43103	SMIL_T2	18	21	3	0.22	0.6	0.38	0	0	0	0	0	0	0	0
4/24/2024 21:43	60803	BUCK_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
4/24/2024 21:43	43301	WATS_T2	0	0	0	0	0	0	-0.86	-0.83	1	1	0	900	900	0
4/24/2024 21:43	43302	WATS_T2	4	4	0	0.53	0.73	0.2	0	0	0	0	0	0	0	0
4/24/2024 21:43	67502	WEWI_T2	220	316	96	0.26	0.25	-0.01	-0.53	-0.42	0	0	0	0	0	0
4/24/2024 21:43	61303	EARL_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
4/24/2024 21:43	60801	BUCK_T1	0	2	2	0	0.1	0.1	-0.22	-0.23	0	0	0	0	0	0
4/24/2024 21:43	48302	ORWI_T2	2	2	0	1	1.1	0.1	-0.15	-0.17	0	0	0	0	0	0
4/24/2024 21:43	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
4/24/2024 21:43	65502	MOJO_T2	0	25	25	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:43	51004	NHAR_T1	7	7	0	1.26	1.56	0.3	-0.45	-0.44	0	0	0	0	0	0
4/24/2024 21:43	29402	BELT_T1	1	1	0	7.4	7.7	0.3	0	0	0	0	0	0	0	0
4/24/2024 21:43	51002	NHAR_T1	1	1	0	1.4	1.7	0.3	0	0	0	0	0	0	0	0
4/24/2024 21:43	10801	CHHI_T1	0	0	0	0	0	0	-1.06	-1.08	1	1	0	900	900	0
4/24/2024 21:43	51003	NHAR_T1	3	4	1	0.17	0.25	0.08	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/24/2024 21:43	67202	TEHI_T2	0	0	0	0	0	0	-0.2	-0.2	1	1	0	900	900	0
4/24/2024 21:43	61102	BERK_T5	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 21:43	61101	BERK_T5	1	0	-1	0.2	0	-0.2	-0.75	-0.75	0	0	0	0	0	0
4/24/2024 21:43	65503	MOJO_T2	14	24	10	0.14	0.31	0.17	-0.53	-0.63	0	0	0	0	0	0
4/24/2024 21:44	63602	LETO_T1	0	0	0	0	0	0	-0.61	-0.58	0	0	0	0	0	0
4/24/2024 21:44	54502	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/24/2024 21:44	40302	TAMA_T3	10	28	18	0.56	0.38	-0.18	0	0	0	0	0	0	0	0
4/24/2024 21:44	43302	WATS_T2	4	4	0	0.53	0.73	0.2	0	0	0	0	0	0	0	0
4/24/2024 21:44	46001	BERW_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
4/24/2024 21:44	67605	WARW_T1	15	13	-2	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
4/24/2024 21:44	61102	BERK_T5	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/24/2024 21:44	54501	ENOL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/24/2024 21:44	43301	WATS_T2	0	0	0	0	0	0	-0.86	-0.83	1	1	0	900	900	0
4/24/2024 21:44	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:44	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	-1.41	-1.41	1	1	0	600	600	0
4/24/2024 21:44	40303	TAMA_T3	2	3	1	0.35	0.23	-0.12	1.98	2.09	0	0	0	0	0	0
4/24/2024 21:44	61101	BERK_T5	1	0	-1	0.2	0	-0.2	-0.75	-0.75	0	0	0	0	0	0
4/24/2024 21:44	11405	FARM_T1	1	1	0	4.2	3.9	-0.3	-1.18	-1.2	1	1	0	1200	1200	0
4/24/2024 21:44	67603	WARW_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
4/24/2024 21:45	54504	ENOL_T2	0	0	0	0	0	0	-0.99	-1.03	1	1	0	600	600	0
4/24/2024 21:45	67605	WARW_T1	10	13	3	0.26	0.3	0.04	0	0	0	0	0	0	0	0
4/24/2024 21:45	54502	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
4/24/2024 21:45	66903	SHIL_T2	0	0	0	0	0	0	-1.07	-1.09	0	0	0	0	0	0
4/24/2024 21:45	67603	WARW_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
4/24/2024 21:45	67703	WERN_T2	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
4/24/2024 21:45	44601	SALE_T2	1	1	0	0.9	0.9	0	-0.15	-0.12	0	0	0	0	0	0
4/24/2024 21:45	54501	ENOL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/24/2024 21:45	64904	MILL_T1	27	79	52	0.19	0.16	-0.03	0.42	0.41	0	0	0	0	0	0
4/24/2024 21:45	64901	MILL_T1	81	87	6	0.33	0.35	0.02	0	0	0	0	0	0	0	0
4/24/2024 21:45	46001	BERW_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
4/24/2024 21:45	66901	SHIL_T2	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
4/24/2024 21:45	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	-1.41	-1.41	1	1	0	600	600	0
4/24/2024 21:46	57304	MOAL_T2	29	51	22	0.23	0.25	0.02	-0.62	-0.65	0	0	0	0	0	0
4/24/2024 21:46	28403	HART_T2	0	0	0	0	0	0	-0.96	-0.97	1	1	0	900	900	0
4/24/2024 21:46	67702	WERN_T2	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
4/24/2024 21:46	62605	ENGL_T1	5	11	6	0.12	0.15	0.03	-1.7	-1.72	0	0	0	0	0	0
4/24/2024 21:46	44203	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:46	43102	SMIL_T2	8	9	1	0.59	0.68	0.09	0	0	0	0	0	0	0	0
4/24/2024 21:46	43103	SMIL_T2	18	21	3	0.33	0.6	0.27	0	0	0	0	0	0	0	0
4/24/2024 21:46	24702	ELND_T2	0	0	0	0	0	0	1.08	1.36	0	0	0	0	0	0
4/24/2024 21:46	61503	EPET_T1	0	0	0	0	0	0	-0.43	-0.49	0	0	0	0	0	0
4/24/2024 21:46	44202	POIN_T2	0	0	0	0	0	0	-0.62	-0.69	1	1	0	1200	1200	0
4/24/2024 21:46	59202	THOM_T1	261	297	36	0.27	0.38	0.11	0	0	0	0	0	0	0	0
4/24/2024 21:46	64902	MILL_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
4/24/2024 21:46	62607	ENGL_T1	7	55	48	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/24/2024 21:46	59201	THOM_T1	18	15	-3	0.29	0.35	0.06	0	0	0	0	0	0	0	0
4/24/2024 21:46	43108	SMIL_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
4/24/2024 21:46	57303	MOAL_T2	1	1	0	6.8	7	0.2	0	0	0	0	0	0	0	0
4/24/2024 21:46	44201	POIN_T1	9	23	14	0.13	0.14	0.01	-3.02	-3.03	2	2	0	2400	2400	0
4/24/2024 21:46	46802	HEPB_T1	1	1	0	1.5	1.5	0	-0.33	-0.34	0	0	0	0	0	0
4/24/2024 21:47	67605	WARW_T1	10	13	3	0.26	0.3	0.04	0	0	0	0	0	0	0	0
4/24/2024 21:47	62605	ENGL_T1	5	11	6	0.12	0.15	0.03	0	0	0	0	0	0	0	0
4/24/2024 21:47	17002	RIRO_T2	349	437	88	0.28	0.3	0.02	0.29	0.33	0	0	0	0	0	0
4/24/2024 21:47	65901	SAKR_T2	1	1	0	9.2	9.2	0	-1.23	-1.23	1	1	0	900	900	0
4/24/2024 21:47	47202	FAXO_T2	0	0	0	0	0	0	-1.05	-1.07	0	0	0	0	0	0
4/24/2024 21:47	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:47	45902	AUBU_T1	1	130	129	0.2	0.19	-0.01	-1.14	-1.19	1	1	0	600	600	0
4/24/2024 21:47	55105	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:47	62607	ENGL_T1	7	55	48	0.1	0.11	0.01	-0.87	-0.89	0	0	0	0	0	0
4/24/2024 21:47	67603	WARW_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
4/24/2024 21:47	61304	EARL_T1	0	0	0	0	0	0	-1.06	-1.11	1	1	0	600	600	0
4/24/2024 21:47	66502	SMAN_T2	0	0	0	0	0	0	-0.17	0.03	0	0	0	0	0	0
4/24/2024 21:48	46102	MACI_T1	17	51	34	0.12	0.14	0.02	0.28	0.28	0	0	0	0	0	0
4/24/2024 21:48	67501	WEWI_T1	53	24	-29	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/24/2024 21:48	66901	SHIL_T2	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
4/24/2024 21:48	62605	ENGL_T1	5	11	6	0.12	0.15	0.03	-0.85	-0.86	0	0	0	0	0	0
4/24/2024 21:48	54501	ENOL_T2	0	3	3	0	0.13	0.13	0.06	0.05	0	0	0	0	0	0
4/24/2024 21:48	51304	WIND_T2	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
4/24/2024 21:48	62607	ENGL_T1	7	55	48	0.1	0.11	0.01	-0.87	-0.89	0	0	0	0	0	0
4/24/2024 21:48	46506	LOHA_T1	1	1	0	0.1	0.8	0.7	-0.51	-0.51	0	0	0	0	0	0
4/24/2024 21:48	67502	WEWI_T2	315	487	172	0.25	0.31	0.06	-0.53	-0.42	0	0	0	0	0	0
4/24/2024 21:48	10805	CHHI_T2	1	1	0	7.9	7.5	-0.4	-0.54	-0.55	0	0	0	0	0	0
4/24/2024 21:48	59002	MIFF_T1	6	4	-2	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
4/24/2024 21:48	54502	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
4/24/2024 21:48	59003	MIFF_T1	1	1	0	0.5	0.5	0	0.36	0.38	0	0	0	0	0	0
4/24/2024 21:48	28403	HART_T2	0	0	0	0	0	0	-0.96	-0.97	1	1	0	900	900	0
4/24/2024 21:48	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 21:48	46504	LOHA_T1	2	7	5	0.35	0.47	0.12	0	0	0	0	0	0	0	0
4/24/2024 21:48	66902	SHIL_T2	0	0	0	0	0	0	-0.83	-0.86	0	0	0	0	0	0
4/24/2024 21:48	10602	BLGL_T2	0	0	0	0	0	0	-0.02	0.18	0	0	0	0	0	0
4/24/2024 21:48	66504	SMAN_T2	0	0	0	0	0	0	-1.39	-1.32	0	0	0	0	0	0
4/24/2024 21:48	67505	WEWI_T1	100	47	-53	0.13	0.1	-0.03	-0.33	-0.33	1	1	0	900	900	0
4/24/2024 21:48	67605	WARW_T1	10	13	3	0.26	0.3	0.04	-0.99	-1.02	0	0	0	0	0	0
4/24/2024 21:48	50504	MECH_T1	13	100	87	0.13	0.14	0.01	0	0	0	0	0	0	0	0
4/24/2024 21:48	50502	MECH_T1	1	1	0	2.8	3.1	0.3	0	0	0	0	0	0	0	0
4/24/2024 21:48	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
4/24/2024 21:48	50506	MECH_T1	0	14	14	0	0.1	0.1	-0.29	-0.29	0	0	0	0	0	0
4/24/2024 21:48	41301	FISH_T1	2	2	0	2.05	2.15	0.1	-0.18	-0.18	0	0	0	0	0	0
4/24/2024 21:48	65802	RTWN_T2	0	37	37	0	0.1	0.1	-0.59	-0.6	0	0	0	0	0	0
4/24/2024 21:48	50501	MECH_T1	4	4	0	1.95	2.13	0.18	0	0	0	0	0	0	0	0
4/24/2024 21:48	65803	RTWN_T2	0	10	10	0	0.15	0.15	0	0	0	0	0	0	0	0
4/24/2024 21:48	64101	REFR_T1	0	0	0	0	0	0	-2.1	-2.15	0	0	0	0	0	0
4/24/2024 21:48	60102	COCA_T1	0	0	0	0	0	0	-0.28	0.82	1	1	0	600	600	0
4/24/2024 21:48	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
4/24/2024 21:49	20403	ASHF_T2	33	40	7	0.44	1.12	0.68	0	0	0	0	0	0	0	0
4/24/2024 21:49	67702	WERN_T2	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
4/24/2024 21:49	66502	SMAN_T2	0	0	0	0	0	0	-0.17	0.03	0	0	0	0	0	0
4/24/2024 21:49	42902	MIDD_T2	0	0	0	0	0	0	-1.07	-1.1	0	0	0	0	0	0
4/24/2024 21:49	65202	PRIN_T1	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:49	46506	LOHA_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
4/24/2024 21:49	23202	HIRU_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
4/24/2024 21:49	50201	HARR_T3	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:49	46504	LOHA_T1	2	7	5	0.35	0.47	0.12	0	0	0	0	0	0	0	0
4/24/2024 21:49	20401	ASHF_T2	3	3	0	0.17	0.3	0.13	-0.41	-0.44	0	0	0	0	0	0
4/24/2024 21:49	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
4/24/2024 21:49	50202	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/24/2024 21:49	50103	HARR_T3	2	2	0	1	1.15	0.15	-1.05	-1.12	1	1	0	1200	1200	0
4/24/2024 21:49	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 21:49	50102	HARR_T3	2	8	6	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/24/2024 21:49	50105	HARR_T3	6	6	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
4/24/2024 21:49	46502	LOHA_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
4/24/2024 21:49	67501	WEWI_T1	53	24	-29	0.2	0.15	-0.05	-0.71	-0.74	0	0	0	0	0	0
4/24/2024 21:49	43103	SMIL_T2	18	21	3	0.33	0.6	0.27	0	0	0	0	0	0	0	0
4/24/2024 21:49	29402	BELT_T1	1	1	0	7.3	7.9	0.6	0	0	0	0	0	0	0	0
4/24/2024 21:49	61303	EARL_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
4/24/2024 21:49	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/24/2024 21:49	65205	PRIN_T1	1	13	12	2.1	0.27	-1.83	0	0	0	0	0	0	0	0
4/24/2024 21:49	47401	PENS_T1	0	0	0	0	0	0	0.77	0.77	0	0	0	0	0	0
4/24/2024 21:49	13302	ORVI_T2	0	0	0	0	0	0	1.11	1.09	0	0	0	0	0	0
4/24/2024 21:49	43102	SMIL_T2	8	9	1	0.59	0.68	0.09	-1.95	-2.01	2	2	0	1200	1200	0
4/24/2024 21:49	47403	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:49	60801	BUCK_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:49	67505	WEWI_T1	100	47	-53	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/24/2024 21:49	65203	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:49	60803	BUCK_T1	3	5	2	0.13	0.12	-0.01	-0.58	-0.59	1	1	0	600	600	0
4/24/2024 21:49	55105	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:50	67201	TEHI_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
4/24/2024 21:50	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/24/2024 21:50	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:50	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/24/2024 21:50	42002	MNVL_T2	1	1	0	2.6	2.3	-0.3	0	0	0	0	0	0	0	0
4/24/2024 21:50	25402	LAHA_T2	1	1	0	0.7	0.9	0.2	-0.95	-0.94	0	0	0	0	0	0
4/24/2024 21:50	29402	BELT_T1	1	1	0	7.3	7.9	0.6	0	0	0	0	0	0	0	0
4/24/2024 21:50	21206	ECAR_T2	1	1	0	7.4	7.9	0.5	1.13	1.11	0	0	0	0	0	0
4/24/2024 21:50	15704	TANN_T1	240	261	21	0.35	0.41	0.06	-1.48	-1.37	0	0	0	0	0	0
4/24/2024 21:50	13704	SCHN_T2	0	1	1	0	0.1	0.1	-0.45	-0.45	0	0	0	0	0	0
4/24/2024 21:50	10805	CHHI_T2	1	1	0	7.9	7.5	-0.4	-0.54	-0.55	0	0	0	0	0	0
4/24/2024 21:50	67605	WARW_T1	10	13	3	0.26	0.3	0.04	-0.99	-1.02	0	0	0	0	0	0
4/24/2024 21:50	61502	EPET_T1	0	0	0	0	0	0	-1.1	-1.18	0	0	0	0	0	0
4/24/2024 21:50	42001	MNVL_T2	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
4/24/2024 21:50	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:50	13807	SALI_T1	2	60	58	0.15	0.11	-0.04	0.12	0.11	0	0	0	0	0	0
4/24/2024 21:50	15701	TANN_T1	127	183	56	0.27	0.31	0.04	0	0	0	0	0	0	0	0
4/24/2024 21:50	56501	ROCK_T2	2	3	1	1	0.87	-0.13	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 21:50	13805	SALI_T1	3	4	1	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/24/2024 21:50	67203	TEHI_T1	0	0	0	0	0	0	1.88	1.92	1	1	0	600	600	0
4/24/2024 21:50	56503	ROCK_T2	3	7	4	0.1	0.1	0	0	0	0	0	0	0	0	0
4/24/2024 21:50	13802	SALI_T1	0	12	12	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:50	41504	FAIR_T2	0	0	0	0	0	0	-0.98	-1	0	0	0	0	0	0
4/24/2024 21:51	57003	WHHI_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/24/2024 21:51	46302	ROHR_T1	4	21	17	2.35	0.61	-1.74	0.13	0.1	0	0	0	0	0	0
4/24/2024 21:51	43801	SWIL_T1	2	2	0	3.45	3.35	-0.1	0	0	0	0	0	0	0	0
4/24/2024 21:51	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 21:51	43802	SWIL_T1	0	1	1	0	0	0	-0.34	-0.36	1	1	0	600	600	0
4/24/2024 21:51	52501	PROG_T1	0	0	0	0	0	0	0.32	0.27	1	1	0	300	300	0
4/24/2024 21:51	28703	HAML_T2	3	3	0	0.13	0.5	0.37	0	0	0	0	0	0	0	0
4/24/2024 21:51	13901	SEID_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
4/24/2024 21:51	26401	INOR_T1	1	1	0	9.3	9.9	0.6	0.3	0.29	0	0	0	0	0	0
4/24/2024 21:51	57401	SPAN_T1	2	2	0	0.35	0.55	0.2	-0.99	-1.03	1	1	0	600	600	0
4/24/2024 21:51	59101	WALK_T2	0	0	0	0	0	0	1.19	1.18	0	0	0	0	0	0
4/24/2024 21:51	28704	HAML_T2	1	1	0	0.4	0.8	0.4	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 21:51	45901	AUBU_T1	0	0	0	0	0	0	2.04	2.05	0	0	0	0	0	0
4/24/2024 21:51	66901	SHIL_T2	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/24/2024 21:51	46506	LOHA_T1	1	1	0	0.1	0.8	0.7	-0.51	-0.51	0	0	0	0	0	0
4/24/2024 21:51	26402	INOR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:51	29402	BELT_T1	1	1	0	7.3	7.9	0.6	0	0	0	0	0	0	0	0
4/24/2024 21:51	40303	TAMA_T3	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
4/24/2024 21:51	40302	TAMA_T3	24	29	5	0.35	0.43	0.08	0.33	0.35	0	0	0	0	0	0
4/24/2024 21:51	57301	MOAL_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
4/24/2024 21:51	62605	ENGL_T1	5	11	6	0.12	0.15	0.03	0	0	0	0	0	0	0	0
4/24/2024 21:51	44201	POIN_T1	9	23	14	0.13	0.14	0.01	-1.51	-1.51	1	1	0	1200	1200	0
4/24/2024 21:51	57304	MOAL_T2	29	51	22	0.23	0.25	0.02	0	0	0	0	0	0	0	0
4/24/2024 21:51	20601	GRWO_T2	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
4/24/2024 21:51	63403	HONY_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/24/2024 21:51	13802	SALI_T1	0	12	12	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:51	46301	ROHR_T1	121	238	117	0.2	0.31	0.11	0	0	0	0	0	0	0	0
4/24/2024 21:51	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.34	0	0	0	0	0	0
4/24/2024 21:51	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
4/24/2024 21:51	66503	SMAN_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
4/24/2024 21:51	13807	SALI_T1	2	60	58	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
4/24/2024 21:51	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/24/2024 21:51	67502	WEWI_T2	315	487	172	0.25	0.31	0.06	-0.53	-0.42	0	0	0	0	0	0
4/24/2024 21:51	64101	REFR_T1	0	0	0	0	0	0	-1.05	-1.08	0	0	0	0	0	0
4/24/2024 21:51	46504	LOHA_T1	2	7	5	0.35	0.47	0.12	0	0	0	0	0	0	0	0
4/24/2024 21:51	57006	WHHI_T2	0	1	1	0	0.1	0.1	0.71	0.8	0	0	0	0	0	0
4/24/2024 21:51	13803	SALI_T1	0	0	0	0	0	0	-0.1	-0.17	2	2	0	2400	2400	0
4/24/2024 21:51	13805	SALI_T1	3	4	1	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/24/2024 21:51	45902	AUBU_T1	1	130	129	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
4/24/2024 21:51	16504	STRO_T1	33	157	124	0.24	0.25	0.01	0.08	0.06	1	1	0	1200	1200	0
4/24/2024 21:51	24501	GOUL_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
4/24/2024 21:51	57403	SPAN_T1	14	29	15	0.22	0.3	0.08	0	0	0	0	0	0	0	0
4/24/2024 21:51	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:51	57303	MOAL_T2	1	1	0	6.8	7	0.2	0	0	0	0	0	0	0	0
4/24/2024 21:51	62607	ENGL_T1	7	55	48	0.1	0.11	0.01	-1.74	-1.78	0	0	0	0	0	0
4/24/2024 21:51	63402	HONY_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
4/24/2024 21:51	52502	PROG_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
4/24/2024 21:51	46004	BERW_T2	0	0	0	0	0	0	-0.38	-0.43	0	0	0	0	0	0
4/24/2024 21:51	66902	SHIL_T2	0	0	0	0	0	0	-0.83	-0.86	0	0	0	0	0	0
4/24/2024 21:51	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:52	41204	KENM_T2	0	0	0	0	0	0	0.17	0.13	0	0	0	0	0	0
4/24/2024 21:52	13807	SALI_T1	2	60	58	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
4/24/2024 21:52	67201	TEHI_T1	1	0	-1	1.1	0	-1.1	-0.37	-0.38	1	1	0	900	900	0
4/24/2024 21:52	13502	MCMI_T1	3	22	19	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/24/2024 21:52	66902	SHIL_T2	0	0	0	0	0	0	-0.83	-0.86	0	0	0	0	0	0
4/24/2024 21:52	59301	MCAL_T1	4	26	22	0.48	0.17	-0.31	0	0	0	0	0	0	0	0
4/24/2024 21:52	46903	MNTG_T2	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
4/24/2024 21:52	13805	SALI_T1	3	4	1	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/24/2024 21:52	16302	ALPA_T2	0	0	0	0	0	0	1.18	1.12	0	0	0	0	0	0
4/24/2024 21:52	59302	MCAL_T1	1	1	0	0.5	0.8	0.3	-0.32	-0.36	1	1	0	600	600	0
4/24/2024 21:52	20403	ASHF_T2	33	40	7	0.44	1.12	0.68	0.11	0.12	0	0	0	0	0	0
4/24/2024 21:52	13802	SALI_T1	0	12	12	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:52	20401	ASHF_T2	3	3	0	0.17	0.3	0.13	0	0	0	0	0	0	0	0
4/24/2024 21:52	51401	LYKE_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
4/24/2024 21:52	66903	SHIL_T2	0	0	0	0	0	0	-1.07	-1.09	0	0	0	0	0	0
4/24/2024 21:52	41903	REED_T1	0	0	0	0	0	0	0.92	0.99	0	0	0	0	0	0
4/24/2024 21:52	66502	SMAN_T2	0	0	0	0	0	0	-0.34	0.07	0	0	0	0	0	0
4/24/2024 21:52	45902	AUBU_T1	1	130	129	0.2	0.19	-0.01	-1.14	-1.19	1	1	0	600	600	0
4/24/2024 21:52	52502	PROG_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
4/24/2024 21:52	52501	PROG_T1	0	0	0	0	0	0	0.32	0.27	1	1	0	300	300	0
4/24/2024 21:52	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/24/2024 21:52	41202	KENM_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/24/2024 21:52	61303	EARL_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
4/24/2024 21:52	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 21:52	29402	BELT_T1	1	1	0	7.3	7.9	0.6	0	0	0	0	0	0	0	0
4/24/2024 21:52	66901	SHIL_T2	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
4/24/2024 21:52	51402	LYKE_T1	18	12	-6	0.19	0.2	0.01	0	0	0	0	0	0	0	0
4/24/2024 21:52	13801	SALI_T1	0	0	0	0	0	0	0.76	0.78	0	0	0	0	0	0
4/24/2024 21:52	40902	JESH_T1	0	59	59	0	0.16	0.16	-0.96	-0.98	0	0	0	0	0	0
4/24/2024 21:53	54601	SUMM_T2	13	13	0	0.96	1.15	0.19	-2.06	-2.06	2	2	0	2100	2100	0
4/24/2024 21:53	65203	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:53	64203	KINZ_T1	4	114	110	0.2	0.2	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:53	64202	KINZ_T1	11	45	34	0.26	0.31	0.05	0	0	0	0	0	0	0	0
4/24/2024 21:53	17903	BART_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
4/24/2024 21:53	65205	PRIN_T1	1	13	12	2.1	0.27	-1.83	0	0	0	0	0	0	0	0
4/24/2024 21:53	43301	WATS_T2	0	0	0	0	0	0	-0.86	-0.83	1	1	0	900	900	0
4/24/2024 21:53	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/24/2024 21:53	26703	HEML_T1	0	0	0	0	0	0	-0.97	-0.96	1	1	0	600	600	0
4/24/2024 21:53	14203	EALL_T1	0	0	0	0	0	0	0.89	0.78	0	0	0	0	0	0
4/24/2024 21:53	43302	WATS_T2	4	4	0	0.58	0.73	0.15	0	0	0	0	0	0	0	0
4/24/2024 21:53	62607	ENGL_T1	7	55	48	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/24/2024 21:53	54602	SUMM_T2	8	7	-1	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
4/24/2024 21:53	57403	SPAN_T1	14	29	15	0.22	0.3	0.08	0	0	0	0	0	0	0	0
4/24/2024 21:53	17902	BART_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
4/24/2024 21:53	15001	BLMO_T1	3	4	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
4/24/2024 21:53	13502	MCMI_T1	3	22	19	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/24/2024 21:53	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:53	64204	KINZ_T1	15	39	24	0.26	0.48	0.22	0	0	0	0	0	0	0	0
4/24/2024 21:53	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 21:53	64201	KINZ_T1	8	60	52	0.49	0.29	-0.2	0.53	0.6	0	0	0	0	0	0
4/24/2024 21:53	57401	SPAN_T1	2	2	0	0.35	0.55	0.2	-1.03	-1.28	1	1	0	600	600	0
4/24/2024 21:53	67703	WERN_T2	0	0	0	0	0	0	0.56	-0.08	0	0	0	0	0	0
4/24/2024 21:53	67605	WARW_T1	10	13	3	0.26	0.3	0.04	-1.02	-1.05	0	0	0	0	0	0
4/24/2024 21:53	13704	SOHN_T2	0	1	1	0	0.1	0.1	-0.45	-0.45	0	0	0	0	0	0
4/24/2024 21:53	62605	ENGL_T1	5	11	6	0.12	0.15	0.03	-0.86	-0.86	0	0	0	0	0	0
4/24/2024 21:53	54603	SUMM_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/24/2024 21:53	60501	NMAN_T2	5	3	-2	3.18	5.3	2.12	0	0	0	0	0	0	0	0
4/24/2024 21:53	67702	WERN_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
4/24/2024 21:53	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/24/2024 21:53	47001	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:53	65202	PRIN_T1	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:53	45902	AUBU_T1	1	130	129	0.2	0.19	-0.01	-1.19	-1.22	1	1	0	600	600	0
4/24/2024 21:53	66502	SMAN_T2	0	0	0	0	0	0	0.03	-0.07	0	0	0	0	0	0
4/24/2024 21:53	60502	NMAN_T2	0	0	0	0	0	0	-0.5	-0.46	0	0	0	0	0	0
4/24/2024 21:54	64203	KINZ_T1	4	114	110	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:54	48302	ORWI_T2	2	2	0	1.1	1.2	0.1	-0.17	-0.17	0	0	0	0	0	0
4/24/2024 21:54	44301	BEAV_T2	0	0	0	0	0	0	0.38	0.32	1	1	0	600	600	0
4/24/2024 21:54	40602	PIGR_T1	1	1	0	0.5	0.1	-0.4	1.02	0.99	0	0	0	0	0	0
4/24/2024 21:54	45902	AUBU_T1	1	130	129	0.2	0.19	-0.01	-1.19	-1.22	1	1	0	600	600	0
4/24/2024 21:54	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:54	62607	ENGL_T1	7	55	48	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/24/2024 21:54	62605	ENGL_T1	5	11	6	0.12	0.15	0.03	-0.86	-0.86	0	0	0	0	0	0
4/24/2024 21:54	46801	HEPB_T2	2	2	0	0.2	0.45	0.25	0.46	0.49	0	0	0	0	0	0
4/24/2024 21:54	41801	GOCI_T2	19	112	93	0.12	0.26	0.14	0	0	0	0	0	0	0	0
4/24/2024 21:54	12801	MICK_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
4/24/2024 21:54	12803	MICK_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/24/2024 21:54	12807	MICK_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/24/2024 21:54	41301	FISH_T1	2	2	0	2.05	2.15	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:54	41802	GOCI_T2	9	15	6	0.16	0.22	0.06	0	0	0	0	0	0	0	0
4/24/2024 21:54	16103	BING_T2	0	0	0	0	0	0	-0.17	-0.16	1	1	0	600	600	0
4/24/2024 21:54	44502	HAMI_T2	1	1	0	3.7	3.7	0	-1.05	-1.07	0	0	0	0	0	0
4/24/2024 21:54	66504	SMAN_T2	0	0	0	0	0	0	-0.66	-0.72	0	0	0	0	0	0
4/24/2024 21:54	64202	KINZ_T1	11	45	34	0.26	0.31	0.05	0	0	0	0	0	0	0	0
4/24/2024 21:54	64204	KINZ_T1	15	39	24	0.26	0.48	0.22	0	0	0	0	0	0	0	0
4/24/2024 21:54	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:54	64201	KINZ_T1	8	60	52	0.49	0.29	-0.2	0.53	0.6	0	0	0	0	0	0
4/24/2024 21:54	41303	FISH_T1	0	0	0	0	0	0	-1.07	-1.14	0	0	0	0	0	0
4/24/2024 21:54	61504	EPET_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
4/24/2024 21:54	27603	PIRI_T2	0	0	0	0	0	0	-1	-0.99	2	2	0	1800	1800	0
4/24/2024 21:54	55003	NEWP_T2	13	13	0	0.64	0.75	0.11	-0.18	-0.28	0	0	0	0	0	0
4/24/2024 21:54	40601	PIGR_T1	43	75	32	0.15	0.16	0.01	0	0	0	0	0	0	0	0
4/24/2024 21:54	10903	COOP_T2	1	85	84	0.1	0.22	0.12	-0.44	-0.45	1	1	0	600	600	0
4/24/2024 21:54	62606	ENGL_T1	0	0	0	0	0	0	0.16	0.29	0	0	0	0	0	0
4/24/2024 21:54	52501	PROG_T1	0	0	0	0	0	0	0.27	0.3	1	1	0	300	300	0
4/24/2024 21:54	14404	SSLA_T1	2	2	0	3	3.1	0.1	-0.05	-0.05	0	0	0	0	0	0
4/24/2024 21:54	16402	MOPO_T1	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
4/24/2024 21:55	62605	ENGL_T1	5	11	6	0.12	0.15	0.03	-0.86	-0.86	0	0	0	0	0	0
4/24/2024 21:55	65503	MOJO_T2	24	13	-11	0.31	0.23	-0.08	0	0	0	0	0	0	0	0
4/24/2024 21:55	46801	HEPB_T2	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/24/2024 21:55	46803	HEPB_T2	0	0	0	0	0	0	0.44	0.49	0	0	0	0	0	0
4/24/2024 21:55	54601	SUMM_T2	13	13	0	0.96	1.15	0.19	0	0	0	0	0	0	0	0
4/24/2024 21:55	50201	HARR_T3	1	1	0	0.5	0.6	0.1	0.19	0.14	0	0	0	0	0	0
4/24/2024 21:55	57006	WHHI_T2	0	1	1	0	0.1	0.1	0.8	0.9	0	0	0	0	0	0
4/24/2024 21:55	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/24/2024 21:55	50202	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/24/2024 21:55	50103	HARR_T3	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
4/24/2024 21:55	50105	HARR_T3	6	6	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
4/24/2024 21:55	43302	WATS_T2	4	4	0	0.58	0.73	0.15	-0.8	-0.76	2	2	0	1800	1800	0
4/24/2024 21:55	46504	LOHA_T1	2	7	5	0.35	0.47	0.12	0	0	0	0	0	0	0	0
4/24/2024 21:55	67702	WERN_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
4/24/2024 21:55	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:55	54603	SUMM_T2	2	2	0	0.3	0.25	-0.05	0	-0.04	1	1	0	900	900	0
4/24/2024 21:55	62607	ENGL_T1	7	55	48	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/24/2024 21:55	45902	AUBU_T1	1	130	129	0.2	0.19	-0.01	-2.37	-2.44	2	2	0	1200	1200	0
4/24/2024 21:55	17401	FOHI_T1	0	0	0	0	0	0	-1.08	-1.07	0	0	0	0	0	0
4/24/2024 21:55	48302	ORWI_T2	2	2	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:55	50502	MECH_T1	1	1	0	2.8	3.1	0.3	0	0	0	0	0	0	0	0
4/24/2024 21:55	54602	SUMM_T2	8	7	-1	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
4/24/2024 21:55	50506	MECH_T1	0	14	14	0	0.1	0.1	-0.58	-0.84	0	0	0	0	0	0
4/24/2024 21:55	64701	LITI_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
4/24/2024 21:55	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 21:55	50102	HARR_T3	2	8	6	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/24/2024 21:55	65502	MOJO_T2	25	0	-25	0.1	0	-0.1	-1.15	-1.14	0	0	0	0	0	0
4/24/2024 21:55	46506	LOHA_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
4/24/2024 21:55	62601	ENGL_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
4/24/2024 21:55	63305	GREE_T1	12	4	-8	0.2	0.23	0.03	-1.24	-1.17	0	0	0	0	0	0
4/24/2024 21:55	50504	MECH_T1	13	100	87	0.13	0.14	0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/24/2024 21:55	46503	LOHA_T1	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
4/24/2024 21:55	50501	MECH_T1	4	4	0	1.95	2.13	0.18	0	0	0	0	0	0	0	0
4/24/2024 21:55	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 21:55	57003	WHHI_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/24/2024 21:55	44301	BEAV_T2	0	0	0	0	0	0	0.38	0.32	1	1	0	600	600	0
4/24/2024 21:55	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:56	14404	SSLA_T1	2	2	0	3	3.1	0.1	-0.05	-0.05	0	0	0	0	0	0
4/24/2024 21:56	24206	PROV_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:56	13805	SALI_T1	3	4	1	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/24/2024 21:56	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:56	55105	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:56	41801	GOCI_T2	19	112	93	0.12	0.26	0.14	0	0	0	0	0	0	0	0
4/24/2024 21:56	13802	SALI_T1	0	12	12	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:56	12502	MITR_T2	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
4/24/2024 21:56	43102	SMIL_T2	8	9	1	0.59	0.68	0.09	0	0	0	0	0	0	0	0
4/24/2024 21:56	49804	UNIV_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/24/2024 21:56	62605	ENGL_T1	5	11	6	0.12	0.15	0.03	0	0	0	0	0	0	0	0
4/24/2024 21:56	67502	WEWI_T2	315	487	172	0.25	0.31	0.06	-0.42	-0.57	0	0	0	0	0	0
4/24/2024 21:56	10702	CATA_T2	1	1	0	0.3	0.5	0.2	-0.67	-0.61	0	0	0	0	0	0
4/24/2024 21:56	65603	QVIL_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
4/24/2024 21:56	65601	QVIL_T2	72	76	4	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
4/24/2024 21:56	67401	WAKE_T2	3	36	33	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/24/2024 21:56	16301	ALPA_T1	251	95	-156	0.26	0.16	-0.1	-0.56	-0.57	0	0	0	0	0	0
4/24/2024 21:56	13807	SALI_T1	2	60	58	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
4/24/2024 21:56	12505	MITR_T2	0	0	0	0	0	0	0.96	0.82	0	0	0	0	0	0
4/24/2024 21:56	49803	UNIV_T1	0	1	1	0	0.1	0.1	0.1	0.04	0	0	0	0	0	0
4/24/2024 21:56	13803	SALI_T1	0	0	0	0	0	0	-0.17	0.69	2	1	-1	2400	1200	-1200
4/24/2024 21:56	46301	ROHR_T1	121	238	117	0.2	0.31	0.11	0.15	0.13	0	0	0	0	0	0
4/24/2024 21:56	46302	ROHR_T1	4	21	17	2.35	0.61	-1.74	0	0	0	0	0	0	0	0
4/24/2024 21:56	43103	SMIL_T2	18	21	3	0.33	0.6	0.27	0	0	0	0	0	0	0	0
4/24/2024 21:56	44301	BEAV_T2	0	0	0	0	0	0	0.38	0.32	1	1	0	600	600	0
4/24/2024 21:56	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:56	57003	WHHI_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/24/2024 21:56	65602	QVIL_T2	5	12	7	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
4/24/2024 21:56	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/24/2024 21:56	66505	SMAN_T2	0	0	0	0	0	0	-0.13	-0.15	1	1	0	900	900	0
4/24/2024 21:56	43101	SMIL_T2	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
4/24/2024 21:56	67402	WAKE_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
4/24/2024 21:56	57004	WHHI_T2	0	0	0	0	0	0	-0.69	-0.65	0	0	0	0	0	0
4/24/2024 21:56	16302	ALPA_T2	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
4/24/2024 21:56	60801	BUCK_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:56	20603	GRWO_T2	0	1	1	0	0	0	0.28	0.29	0	0	0	0	0	0
4/24/2024 21:56	29402	BELT_T1	1	1	0	7.3	7.9	0.6	0	0	0	0	0	0	0	0
4/24/2024 21:56	60803	BUCK_T1	3	5	2	0.13	0.12	-0.01	-0.59	0.08	1	0	-1	600	0	-600
4/24/2024 21:56	62607	ENGL_T1	7	55	48	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/24/2024 21:56	41802	GOCI_T2	9	15	6	0.16	0.22	0.06	0	0	0	0	0	0	0	0
4/24/2024 21:56	62602	ENGL_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
4/24/2024 21:56	24202	PROV_T4	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
4/24/2024 21:57	46302	ROHR_T1	4	21	17	2.35	0.61	-1.74	0	0	0	0	0	0	0	0
4/24/2024 21:57	67505	WEWI_T1	100	47	-53	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/24/2024 21:57	14205	EALL_T2	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
4/24/2024 21:57	57303	MOAL_T2	1	1	0	6.8	7	0.2	0	0	0	0	0	0	0	0
4/24/2024 21:57	24602	VARD_T2	661	750	89	0.91	0.91	0	-1.13	-1.12	0	0	0	0	0	0
4/24/2024 21:57	24105	EHAZ_T1	4	4	0	6.1	6.05	-0.05	0	0	0	0	0	0	0	0
4/24/2024 21:57	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:57	15001	BLMO_T1	3	4	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
4/24/2024 21:57	24102	EHAZ_T1	3	5	2	0.4	0	-0.4	0.24	0.13	0	0	0	0	0	0
4/24/2024 21:57	45901	AUBU_T1	0	0	0	0	0	0	2.05	1.97	0	0	0	0	0	0
4/24/2024 21:57	22003	BOHE_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:57	66502	SMAN_T2	0	0	0	0	0	0	0.03	-0.07	0	0	0	0	0	0
4/24/2024 21:57	48301	ORWI_T1	2	2	0	4.2	4.3	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:57	45902	AUBU_T1	1	130	129	0.2	0.19	-0.01	-2.37	-2.44	2	2	0	1200	1200	0
4/24/2024 21:57	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:57	46301	ROHR_T1	121	238	117	0.2	0.31	0.11	0.15	0.13	0	0	0	0	0	0
4/24/2024 21:57	40602	PIGR_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/24/2024 21:57	40601	PIGR_T1	43	75	32	0.15	0.16	0.01	-0.24	-0.25	0	0	0	0	0	0
4/24/2024 21:57	67501	WEWI_T1	53	24	-29	0.2	0.15	-0.05	-0.74	-0.74	0	0	0	0	0	0
4/24/2024 21:57	57304	MOAL_T2	29	51	22	0.23	0.25	0.02	-0.65	-0.68	0	0	0	0	0	0
4/24/2024 21:57	13302	ORVI_T2	0	0	0	0	0	0	1.09	1.03	0	0	0	0	0	0
4/24/2024 21:57	16605	PONO_T1	0	0	0	0	0	0	-0.67	-0.63	1	1	0	1200	1200	0
4/24/2024 21:57	25503	MADI_T1	13	142	129	0.13	0.16	0.03	-1.08	-1.07	0	0	0	0	0	0
4/24/2024 21:57	24603	VARD_T2	16	42	26	0.29	0.2	-0.09	0	0	0	0	0	0	0	0
4/24/2024 21:57	14603	SWHI_T1	0	0	0	0	0	0	-1.15	-1.15	1	1	0	600	600	0
4/24/2024 21:58	50502	MECH_T1	1	1	0	2.8	3.1	0.3	0	0	0	0	0	0	0	0
4/24/2024 21:58	41502	FAIR_T2	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
4/24/2024 21:58	67401	WAKE_T2	3	36	33	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/24/2024 21:58	15001	BLMO_T1	3	4	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
4/24/2024 21:58	40701	FFLD_T1	17	28	11	0.16	0.39	0.23	0	0	0	0	0	0	0	0
4/24/2024 21:58	40703	FFLD_T1	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
4/24/2024 21:58	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:58	58001	WCAR_T1	17	38	21	0.65	0.44	-0.21	0	0	0	0	0	0	0	0
4/24/2024 21:58	57403	SPAN_T1	14	29	15	0.22	0.3	0.08	-0.09	-0.1	0	0	0	0	0	0
4/24/2024 21:58	50504	MECH_T1	13	100	87	0.13	0.14	0.01	0	0	0	0	0	0	0	0
4/24/2024 21:58	51102	CARL_T1	148	192	44	0.35	0.47	0.12	0	0	0	0	0	0	0	0
4/24/2024 21:58	50501	MECH_T1	4	4	0	1.95	2.13	0.18	0	0	0	0	0	0	0	0
4/24/2024 21:58	17401	FOHI_T1	0	0	0	0	0	0	-1.08	-1.07	0	0	0	0	0	0
4/24/2024 21:58	14204	EALL_T2	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
4/24/2024 21:58	24901	WHHA_T1	1	9	8	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/24/2024 21:58	51108	CARL_T1	1	61	60	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/24/2024 21:58	50506	MECH_T1	0	14	14	0	0.1	0.1	-0.58	-0.84	0	0	0	0	0	0
4/24/2024 21:58	43304	WATS_T2	0	0	0	0	0	0	-0.47	-0.79	0	0	0	0	0	0
4/24/2024 21:58	67402	WAKE_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
4/24/2024 21:58	40702	FFLD_T1	4	77	73	0.2	0.18	-0.02	-0.8	-0.82	1	1	0	1200	1200	0
4/24/2024 21:58	51104	CARL_T1	1	6	5	1.7	0.1	-1.6	0	0	0	0	0	0	0	0
4/24/2024 21:58	20403	ASHF_T2	33	40	7	0.44	1.12	0.68	0	0	0	0	0	0	0	0
4/24/2024 21:58	48302	ORWI_T2	2	2	0	1.1	1.2	0.1	-0.17	-0.17	0	0	0	0	0	0
4/24/2024 21:58	51402	LYKE_T1	18	12	-6	0.19	0.2	0.01	-1.54	-0.86	0	0	0	0	0	0
4/24/2024 21:58	60801	BUCK_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:58	59101	WALK_T2	0	0	0	0	0	0	1.18	1.1	0	0	0	0	0	0
4/24/2024 21:58	58003	WCAR_T1	82	132	50	0.4	0.44	0.04	0.57	0.52	0	0	0	0	0	0
4/24/2024 21:58	60803	BUCK_T1	3	5	2	0.13	0.12	-0.01	-0.59	0.08	1	0	-1	600	0	-600
4/24/2024 21:58	16302	ALPA_T2	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
4/24/2024 21:58	20401	ASHF_T2	3	3	0	0.17	0.3	0.13	-0.47	-0.47	0	0	0	0	0	0
4/24/2024 21:58	57401	SPAN_T1	2	2	0	0.35	0.55	0.2	-1.03	-1.28	1	1	0	600	600	0
4/24/2024 21:58	43302	WATS_T2	4	4	0	0.58	0.73	0.15	0	0	0	0	0	0	0	0
4/24/2024 21:58	51401	LYKE_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
4/24/2024 21:58	51101	CARL_T1	2	15	13	0.1	0.15	0.05	-1.52	-0.82	1	0	-1	600	0	-600
4/24/2024 21:58	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/24/2024 21:58	14603	SWHI_T1	0	0	0	0	0	0	-2.3	-2.3	2	2	0	1200	1200	0
4/24/2024 21:58	24902	WHHA_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/24/2024 21:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:58	51107	CARL_T1	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
4/24/2024 21:59	44301	BEAV_T2	0	0	0	0	0	0	0.38	0.32	1	1	0	600	600	0
4/24/2024 21:59	43302	WATS_T2	4	4	0	0.58	0.73	0.15	0	0	0	0	0	0	0	0
4/24/2024 21:59	22101	EDEL_T2	0	0	0	0	0	0	0.37	0.4	1	1	0	1200	1200	0
4/24/2024 21:59	50504	MECH_T1	13	100	87	0.13	0.14	0.01	0	0	0	0	0	0	0	0
4/24/2024 21:59	26002	WDAM_T1	4	5	1	0.3	0.43	0.13	0	0	0	0	0	0	0	0
4/24/2024 21:59	64801	MONE_T2	25	31	6	0.15	0.2	0.05	0.14	0.14	0	0	0	0	0	0
4/24/2024 21:59	64201	KINZ_T1	8	60	52	0.49	0.29	-0.2	0	0	0	0	0	0	0	0
4/24/2024 21:59	45902	AUBU_T1	1	130	129	0.2	0.19	-0.01	-1.19	-1.22	1	1	0	600	600	0
4/24/2024 21:59	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 21:59	10903	COOP_T2	1	85	84	0.1	0.22	0.12	0	0	0	0	0	0	0	0
4/24/2024 21:59	50502	MECH_T1	1	1	0	2.8	3.1	0.3	0	0	0	0	0	0	0	0
4/24/2024 21:59	64802	MONE_T2	19	81	62	0.11	0.18	0.07	0.12	0.13	0	0	0	0	0	0
4/24/2024 21:59	53903	HALI_T2	2	2	0	1.45	1.4	-0.05	0	0	0	0	0	0	0	0
4/24/2024 21:59	12006	HATF_T1	0	0	0	0	0	0	0.92	0.85	0	0	0	0	0	0
4/24/2024 21:59	53902	HALI_T2	1	1	0	5.3	5.7	0.4	0	0	0	0	0	0	0	0
4/24/2024 21:59	64202	KINZ_T1	11	45	34	0.26	0.31	0.05	0.53	0.53	0	0	0	0	0	0
4/24/2024 21:59	45802	HEGI_T2	48	49	1	1.45	2.08	0.63	0.39	1.18	0	0	0	0	0	0
4/24/2024 21:59	60802	BUCK_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
4/24/2024 21:59	50506	MECH_T1	0	14	14	0	0.1	0.1	-0.29	-0.42	0	0	0	0	0	0
4/24/2024 21:59	15702	TANN_T2	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
4/24/2024 21:59	10702	CATA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/24/2024 21:59	10707	CATA_T2	0	0	0	0	0	0	0.74	0.63	0	0	0	0	0	0
4/24/2024 21:59	53901	HALI_T2	1	1	0	0.6	0.9	0.3	-0.49	-1.62	0	0	0	0	0	0
4/24/2024 21:59	16301	ALPA_T2	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
4/24/2024 21:59	53501	EVIL_T2	1	4	3	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
4/24/2024 21:59	64204	KINZ_T1	15	39	24	0.26	0.48	0.22	0	0	0	0	0	0	0	0
4/24/2024 21:59	61102	BERK_T5	0	0	0	0	0	0	0.91	0.84	1	1	0	300	300	0
4/24/2024 21:59	53502	EVIL_T2	1	0	-1	0.1	0	-0.1	0.51	0.49	0	0	0	0	0	0
4/24/2024 21:59	64203	KINZ_T1	4	114	110	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/24/2024 21:59	66901	SHIL_T2	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
4/24/2024 21:59	20401	ASHF_T2	3	3	0	0.17	0.3	0.13	0	0	0	0	0	0	0	0
4/24/2024 21:59	50501	MECH_T1	4	4	0	1.95	2.13	0.18	0	0	0	0	0	0	0	0
4/24/2024 21:59	26001	WDAM_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
4/24/2024 21:59	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
4/24/2024 21:59	20403	ASHF_T2	33	40	7	0.44	1.12	0.68	0.12	0.04	0	0	0	0	0	0
4/24/2024 21:59	14601	SWHI_T1	0	0	0	0	0	0	-2.09	-0.89	0	0	0	0	0	0
4/24/2024 21:59	10901	COOP_T2	0	0	0	0	0	0	0.65	0.67	0	0	0	0	0	0
4/24/2024 21:59	45402	WBLO_T2	1	1	0	0.8	1.4	0.6	-0.94	-0.95	0	0	0	0	0	0
4/24/2024 21:59	66903	SHIL_T2	0	0	0	0	0	0	-1.09	-1.76	0	0	0	0	0	0
4/24/2024 21:59	43301	WATS_T2	0	0	0	0	0	0	-0.83	-0.85	1	1	0	900	900	0
4/24/2024 22:00	40602	PIGR_T1	1	1	0	0.1	0	-0.1	0.51	0.49	0	0	0	0	0	0
4/24/2024 22:00	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.58	0	0	0	0	0	0
4/24/2024 22:00	63305	GREE_T1	3	15	12	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/24/2024 22:00	14603	SWHI_T1	0	0	0	0	0	0	-1.15	-1.15	1	1	0	600	600	0
4/24/2024 22:00	29402	BELT_T1	1	1	0	7.7	7.9	0.2	0	0	0	0	0	0	0	0
4/24/2024 22:00	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 22:00	52006	LING_T2	3	3	0	1.17	1.1	-0.07	0	0	0	0	0	0	0	0
4/24/2024 22:00	56501	ROCK_T2	3	2	-1	0.87	0.7	-0.17	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 22:00	14403	SSLA_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
4/24/2024 22:00	56503	ROCK_T2	7	0	-7	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 22:00	43302	WATS_T2	4	4	0	0.73	0.65	-0.08	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/24/2024 22:00	20403	ASHF_T2	37	44	7	0.69	1.34	0.65	0.12	0.04	0	0	0	0	0	0
4/24/2024 22:00	40601	PIGR_T1	75	1	-74	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
4/24/2024 22:00	14404	SSLA_T1	2	1	-1	3.1	6.1	3	0	0	0	0	0	0	0	0
4/24/2024 22:00	13807	SALI_T1	60	0	-60	0.11	0	-0.11	0	0	0	0	0	0	0	0
4/24/2024 22:00	43304	WATS_T2	0	0	0	0	0	0	-0.94	-1.58	0	0	0	0	0	0
4/24/2024 22:00	46504	LOHA_T1	2	27	25	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
4/24/2024 22:00	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/24/2024 22:00	67401	WAKE_T2	2	55	53	0.1	0.18	0.08	-0.93	-0.94	0	0	0	0	0	0
4/24/2024 22:00	43202	MVIL_T2	163	179	16	0.66	0.83	0.17	0	0	0	0	0	0	0	0
4/24/2024 22:00	61304	EARL_T1	0	0	0	0	0	0	-1.11	-1.17	1	1	0	600	600	0
4/24/2024 22:00	46301	ROHR_T1	209	265	56	0.29	0.38	0.09	0.15	0.13	0	0	0	0	0	0
4/24/2024 22:00	10801	CHHI_T1	0	0	0	0	0	0	-1.08	-1.11	1	1	0	900	900	0
4/24/2024 22:00	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 22:00	46302	ROHR_T1	9	64	55	1.16	0.32	-0.84	0	0	0	0	0	0	0	0
4/24/2024 22:00	60102	COCA_T1	0	0	0	0	0	0	0.82	1.37	1	1	0	600	600	0
4/24/2024 22:00	67702	WERN_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
4/24/2024 22:00	46506	LOHA_T1	1	1	0	0.8	1.1	0.3	-0.51	-0.51	0	0	0	0	0	0
4/24/2024 22:00	20401	ASHF_T2	3	3	0	0.27	0.33	0.06	0	0	0	0	0	0	0	0
4/24/2024 22:00	63302	GREE_T1	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
4/24/2024 22:00	43201	MVIL_T2	0	1	1	0	0.3	0.3	-0.43	-0.43	0	0	0	0	0	0
4/24/2024 22:00	16301	ALPA_T1	62	185	123	0.15	0.18	0.03	-0.56	-0.57	0	0	0	0	0	0
4/24/2024 22:00	13801	SALI_T1	0	0	0	0	0	0	0.78	0.73	0	0	0	0	0	0
4/24/2024 22:00	13802	SALI_T1	12	0	-12	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 22:00	11801	FRAN_T2	0	1	1	0	0	0	-0.05	-0.1	0	0	0	0	0	0
4/24/2024 22:00	52004	LING_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
4/24/2024 22:00	51301	WIND_T1	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
4/24/2024 22:00	13805	SALI_T1	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/24/2024 22:00	52002	LING_T2	1	1	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
4/24/2024 22:00	61301	EARL_T1	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
4/24/2024 22:01	20403	ASHF_T2	37	44	7	0.69	1.34	0.65	0.12	0.04	0	0	0	0	0	0
4/24/2024 22:01	64802	MONE_T2	10	110	100	0.14	0.19	0.05	0.12	0.13	0	0	0	0	0	0
4/24/2024 22:01	10705	CATA_T2	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
4/24/2024 22:01	67401	WAKE_T2	2	55	53	0.1	0.18	0.08	-0.93	-0.94	0	0	0	0	0	0
4/24/2024 22:01	13701	SCHN_T2	0	0	0	0	0	0	-0.13	-0.16	1	1	0	600	600	0
4/24/2024 22:01	20401	ASHF_T2	3	3	0	0.27	0.33	0.06	0	0	0	0	0	0	0	0
4/24/2024 22:01	22003	BOHE_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/24/2024 22:01	43304	WATS_T2	0	0	0	0	0	0	-0.94	-1.58	0	0	0	0	0	0
4/24/2024 22:01	64801	MONE_T2	19	46	27	0.14	0.23	0.09	0	0	0	0	0	0	0	0
4/24/2024 22:01	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.58	0	0	0	0	0	0
4/24/2024 22:01	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 22:01	22001	BOHE_T1	0	0	0	0	0	0	-0.51	-0.51	1	1	0	600	600	0
4/24/2024 22:01	51304	WIND_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
4/24/2024 22:01	67702	WERN_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
4/24/2024 22:01	13704	SCHN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 22:01	10702	CATA_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/24/2024 22:01	45802	HEGI_T2	48	22	-26	2.08	0.37	-1.71	0.39	1.18	0	0	0	0	0	0
4/24/2024 22:01	46203	DANV_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
4/24/2024 22:01	43302	WATS_T2	4	4	0	0.73	0.65	-0.08	0	0	0	0	0	0	0	0
4/24/2024 22:02	65603	QVIL_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
4/24/2024 22:02	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 22:02	57401	SPAN_T1	2	2	0	0.55	0.35	-0.2	-2.06	-2.56	2	2	0	1200	1200	0
4/24/2024 22:02	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 22:02	14603	SWHI_T1	0	0	0	0	0	0	-1.15	-1.15	1	1	0	600	600	0
4/24/2024 22:02	46203	DANV_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
4/24/2024 22:02	52002	LING_T2	1	1	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
4/24/2024 22:02	67604	WARW_T1	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
4/24/2024 22:02	20403	ASHF_T2	37	44	7	0.69	1.34	0.65	0.12	0.04	0	0	0	0	0	0
4/24/2024 22:02	65601	QVIL_T2	69	63	-6	0.17	0.17	0	0	0	0	0	0	0	0	0
4/24/2024 22:02	67605	WARW_T1	13	8	-5	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
4/24/2024 22:02	13701	SCHN_T2	0	0	0	0	0	0	-0.13	-0.16	1	1	0	600	600	0
4/24/2024 22:02	47001	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 22:02	57403	SPAN_T1	29	29	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/24/2024 22:02	52004	LING_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
4/24/2024 22:02	13704	SCHN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 22:02	65602	QVIL_T2	5	12	7	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
4/24/2024 22:02	20401	ASHF_T2	3	3	0	0.27	0.33	0.06	0	0	0	0	0	0	0	0
4/24/2024 22:02	52006	LING_T2	3	3	0	1.17	1.1	-0.07	0	0	0	0	0	0	0	0
4/24/2024 22:02	47002	HUGH_T2	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
4/24/2024 22:02	67703	WERN_T2	0	0	0	0	0	0	0.56	-0.08	0	0	0	0	0	0
4/24/2024 22:03	15702	TANN_T2	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
4/24/2024 22:03	58402	MORO_T1	0	0	0	0	0	0	-0.56	-0.54	2	2	0	1500	1500	0
4/24/2024 22:03	13805	SALI_T1	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
4/24/2024 22:03	49803	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 22:03	58001	WCAR_T1	38	8	-30	0.44	1.04	0.6	0	0	0	0	0	0	0	0
4/24/2024 22:03	10702	CATA_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/24/2024 22:03	13802	SALI_T1	12	0	-12	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 22:03	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
4/24/2024 22:03	49804	UNIV_T1	2	2	0	0.35	0.2	-0.15	0.33	0.31	0	0	0	0	0	0
4/24/2024 22:03	59101	WALK_T2	0	0	0	0	0	0	1.18	1.1	0	0	0	0	0	0
4/24/2024 22:03	13803	SALI_T1	0	0	0	0	0	0	-0.17	0.69	2	1	-1	2400	1200	-1200
4/24/2024 22:03	10701	CATA_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
4/24/2024 22:03	13807	SALI_T1	60	0	-60	0.11	0	-0.11	0	0	0	0	0	0	0	0
4/24/2024 22:03	14702	TREX_T2	0	0	0	0	0	0	0.81	0.81	0	0	0	0	0	0
4/24/2024 22:03	58003	WCAR_T1	132	63	-69	0.44	0.26	-0.18	0.57	0.52	0	0	0	0	0	0
4/24/2024 22:03	16102	BING_T2	0	4	4	0	0.13	0.13	-0.23	-0.27	0	0	0	0	0	0
4/24/2024 22:03	13704	SCHN_T2	0	2	2	0	0.1	0.1	-0.45	-0.45	0	0	0	0	0	0
4/24/2024 22:03	14601	SWHI_T1	0	0	0	0	0	0	-1.04	-0.44	0	0	0	0	0	0
4/24/2024 22:04	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 22:04	41802	GOCI_T2	15	6	-9	0.22	0.1	-0.12	0	0	0	0	0	0	0	0
4/24/2024 22:04	41902	REED_T1	0	0	0	0	0	0	0.91	0.91	0	0	0	0	0	0
4/24/2024 22:04	57401	SPAN_T1	2	2	0	0.55	0.35	-0.2	0	0	0	0	0	0	0	0
4/24/2024 22:04	57403	SPAN_T1	29	29	0	0.3	0.2	-0.1	-0.09	-0.1	0	0	0	0	0	0
4/24/2024 22:04	42201	SHEN_T2	0	0	0	0	0	0	0.34	0.37	0	0	0	0	0	0
4/24/2024 22:04	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 22:04	26001	WDAM_T1	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
4/24/2024 22:04	42902	MIDD_T2	0	0	0	0	0	0	-0.55	-0.6	0	0	0	0	0	0
4/24/2024 22:04	26002	WDAM_T1	5	24	19	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/24/2024 22:04	41801	GOCI_T2	112	153	41	0.26	0.27	0.01	0	0	0	0	0	0	0	0
4/24/2024 22:04	15001	BLMO_T1	4	4	0	0.43	0.7	0.27	0	0	0	0	0	0	0	0
4/24/2024 22:04	58001	WCAR_T1	38	8	-30	0.44	1.04	0.6	0	0	0	0	0	0	0	0
4/24/2024 22:04	41502	FAIR_T2	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
4/24/2024 22:04	43304	WATS_T2	0	0	0	0	0	0	0.47	0.79	0	0	0	0	0	0
4/24/2024 22:04	59101	WALK_T2	0	0	0	0	0	0	2.36	2.19	0	0	0	0	0	0
4/24/2024 22:04	58003	WCAR_T1	132	63	-69	0.44	0.26	-0.18	0.57	0.52	0	0	0	0	0	0
4/24/2024 22:04	43302	WATS_T2	4	4	0	0.73	0.65	-0.08	0	0	0	0	0	0	0	0
4/24/2024 22:05	43304	WATS_T2	0	0	0	0	0	0	-0.47	-0.79	0	0	0	0	0	0
4/24/2024 22:05	58001	WCAR_T1	38	8	-30	0.44	1.04	0.6	0	0	0	0	0	0	0	0
4/24/2024 22:05	25402	LAHA_T2	1	1	0	0.9	0.6	-0.3	-0.94	-0.96	0	0	0	0	0	0
4/24/2024 22:05	45501	DERR_T2	1	0	-1	0.1	0	-0.1	-0.38	-0.52	2	2	0	1800	1800	0
4/24/2024 22:05	66703	STRA_T1	0	23	23	0	0.12	0.12	-0.44	-0.43	0	0	0	0	0	0
4/24/2024 22:05	58003	WCAR_T1	132	63	-69	0.44	0.26	-0.18	0.57	0.52	0	0	0	0	0	0
4/24/2024 22:05	40602	PIGR_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 22:05	53901	HALI_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
4/24/2024 22:05	65604	QVIL_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
4/24/2024 22:05	13704	SCHN_T2	0	2	2	0	0.1	0.1	-0.89	-0.89	0	0	0	0	0	0
4/24/2024 22:05	29402	BELT_T1	1	1	0	7.7	7.9	0.2	0	0	0	0	0	0	0	0
4/24/2024 22:05	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/24/2024 22:05	53903	HALI_T2	2	2	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
4/24/2024 22:05	65601	QVIL_T2	69	63	-6	0.17	0.17	0	0	0	0	0	0	0	0	0
4/24/2024 22:05	22602	KIMB_T1	0	1	1	0	0.2	0.2	0.29	0.3	0	0	0	0	0	0
4/24/2024 22:05	43302	WATS_T2	4	4	0	0.73	0.65	-0.08	0	0	0	0	0	0	0	0
4/24/2024 22:05	66701	STRA_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/24/2024 22:05	40601	PIGR_T1	75	1	-74	0.16	0.1	-0.06	-0.24	-0.25	0	0	0	0	0	0
4/24/2024 22:05	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	-0.3	-0.3	0	0	0	0	0	0
4/24/2024 22:05	65602	QVIL_T2	5	12	7	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
4/24/2024 22:06	43302	WATS_T2	4	4	0	0.73	0.65	-0.08	0	0	0	0	0	0	0	0
4/24/2024 22:06	12601	MACA_T1	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
4/24/2024 22:06	43202	MVIL_T2	163	179	16	0.66	0.83	0.17	-0.78	-0.77	0	0	0	0	0	0
4/24/2024 22:06	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 22:06	41902	REED_T1	0	0	0	0	0	0	0.91	0.91	0	0	0	0	0	0
4/24/2024 22:06	43304	WATS_T2	0	0	0	0	0	0	-0.94	-1.58	0	0	0	0	0	0
4/24/2024 22:06	43201	MVIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/24/2024 22:08	46506	LOHA_T1	1	1	0	0.8	1.1	0.3	-0.51	-0.51	0	0	0	0	0	0
4/24/2024 22:08	58401	MORO_T1	0	0	0	0	0	0	-1.35	-1.36	1	1	0	600	600	0
4/24/2024 22:08	14403	SSLA_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
4/24/2024 22:08	67401	WAKE_T2	2	55	53	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/24/2024 22:08	67402	WAKE_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
4/24/2024 22:08	14404	SSLA_T1	2	1	-1	3.1	6.1	3	0	0	0	0	0	0	0	0
4/24/2024 22:08	42902	MIDD_T2	0	0	0	0	0	0	-0.55	-0.6	0	0	0	0	0	0
4/24/2024 22:08	46504	LOHA_T1	2	27	25	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
4/24/2024 22:09	58402	MORO_T1	0	0	0	0	0	0	-0.54	-0.55	2	2	0	1500	1500	0
4/24/2024 22:11	58402	MORO_T1	0	0	0	0	0	0	-0.54	-0.55	2	2	0	1500	1500	0
4/24/2024 22:13	51402	LYKE_T1	12	0	-12	0.2	0	-0.2	-0.86	-0.89	0	0	0	0	0	0
4/24/2024 22:14	51107	CARL_T1	5	0	-5	0.18	0	-0.18	0	0	0	0	0	0	0	0
4/24/2024 22:14	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 22:14	51102	CARL_T1	192	96	-96	0.47	0.24	-0.23	0	0	0	0	0	0	0	0
4/24/2024 22:14	51108	CARL_T1	61	0	-61	0.11	0	-0.11	0	0	0	0	0	0	0	0
4/24/2024 22:14	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 22:14	51104	CARL_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/24/2024 22:14	51101	CARL_T1	15	0	-15	0.15	0	-0.15	-0.82	-0.87	0	0	0	0	0	0
4/24/2024 22:15	51102	CARL_T1	14	96	82	0.11	0.24	0.13	0	0	0	0	0	0	0	0
4/24/2024 22:15	13502	MCMI_T1	22	4	-18	0.14	0.15	0.01	0	0	0	0	0	0	0	0
4/24/2024 22:15	51107	CARL_T1	0	0	0	0	0	0	-0.26	-0.37	0	0	0	0	0	0
4/24/2024 22:15	13501	MCMI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/24/2024 22:17	54603	SUMM_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/24/2024 22:17	54602	SUMM_T2	0	9	9	0	0.14	0.14	-2.49	-2.51	1	1	0	600	600	0
4/24/2024 22:17	54601	SUMM_T2	12	12	0	0.58	0.75	0.17	0	0	0	0	0	0	0	0
4/24/2024 22:19	41502	FAIR_T2	0	0	0	0	0	0	-0.75	-0.72	0	0	0	0	0	0
4/24/2024 22:31	50502	MECH_T1	1	1	0	2.1	2.1	0	-0.21	-0.23	0	0	0	0	0	0
4/24/2024 22:31	50501	MECH_T1	4	4	0	1.25	1.03	-0.22	0	0	0	0	0	0	0	0
4/24/2024 22:37	24201	PROV_T3	1	1	0	7.1	6.8	-0.3	-0.28	-0.31	0	0	0	0	0	0
4/24/2024 22:37	24204	PROV_T3	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
4/24/2024 22:45	13801	SALI_T1	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/24/2024 22:48	56501	ROCK_T2	2	3	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/24/2024 22:48	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 22:49	66504	SMAN_T2	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
4/24/2024 22:50	52502	PROG_T2	0	0	0	0	0	0	-0.79	-0.81	1	1	0	900	900	0
4/24/2024 23:24	14601	SWHI_T1	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
4/24/2024 23:25	50105	HARR_T3	6	6	0	5.98	5.73	-0.25	0	0	0	0	0	0	0	0
4/24/2024 23:25	50103	HARR_T3	2	2	0	0.6	1.15	0.55	0	0	0	0	0	0	0	0
4/24/2024 23:25	50201	HARR_T3	1	1	0	0	0.3	0.3	0.18	0.2	0	0	0	0	0	0
4/24/2024 23:25	50202	HARR_T3	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/24/2024 23:38	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2024 23:55	40902	JESH_T1	30	0	-30	0.11	0	-0.11	-0.96	-1.02	0	0	0	0	0	0
4/25/2024 0:39	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/25/2024 6:25	13801	SALI_T1	0	0	0	0	0	0	0.6	0.64	0	0	0	0	0	0
4/25/2024 6:54	15001	BLMO_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 7:07	29402	BELT_T1	1	1	0	7.3	7.3	0	0	0	0	0	0	0	0	0
4/25/2024 7:07	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/25/2024 7:08	45901	AUBU_T1	0	0	0	0	0	0	0.53	0.57	0	0	0	0	0	0
4/25/2024 7:18	41902	REED_T1	6	2	-4	0.52	0	-0.52	1	0.97	0	0	0	0	0	0
4/25/2024 7:24	46203	DANV_T2	69	20	-49	0.26	0.15	-0.11	-2.36	-2.39	0	0	0	0	0	0
4/25/2024 7:24	46206	DANV_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
4/25/2024 7:28	46203	DANV_T2	69	20	-49	0.26	0.15	-0.11	-2.36	-2.39	0	0	0	0	0	0
4/25/2024 7:28	46206	DANV_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
4/25/2024 7:32	54203	PENN_T1	18	18	0	0.38	0.31	-0.07	-0.05	-0.03	0	0	0	0	0	0
4/25/2024 7:32	54201	PENN_T1	3	3	0	1	1.13	0.13	0	0	0	0	0	0	0	0
4/25/2024 7:33	54203	PENN_T1	18	18	0	0.38	0.31	-0.07	-0.05	-0.03	0	0	0	0	0	0
4/25/2024 7:33	54201	PENN_T1	3	3	0	1	1.13	0.13	0	0	0	0	0	0	0	0
4/25/2024 7:46	24902	WHHA_T1	171	118	-53	1.28	1.02	-0.26	0	0	0	0	0	0	0	0
4/25/2024 7:49	43202	MVIL_T2	0	2	2	0	0.2	0.2	-0.57	-0.59	0	0	0	0	0	0
4/25/2024 7:51	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 7:53	29402	BELT_T1	1	1	0	7.3	7	-0.3	0	0	0	0	0	0	0	0
4/25/2024 7:56	45901	AUBU_T1	0	0	0	0	0	0	1.81	1.87	0	0	0	0	0	0
4/25/2024 8:10	51101	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 8:10	51102	CARL_T1	0	118	118	0	0.28	0.28	0	0	0	0	0	0	0	0
4/25/2024 8:10	54502	ENOL_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
4/25/2024 8:10	54505	ENOL_T2	0	1	1	0	0.8	0.8	-1.3	-1.34	1	1	0	600	600	0
4/25/2024 8:10	51108	CARL_T1	0	1	1	0	0.6	0.6	-0.46	-0.52	1	1	0	600	600	0
4/25/2024 8:11	50624	CCTY_T2	2	2	0	7.1	6.55	-0.55	0	0	0	0	0	0	0	0
4/25/2024 8:11	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 8:11	50623	CCTY_T2	4	4	0	7.33	6.38	-0.95	0	0	0	0	0	0	0	0
4/25/2024 8:11	50625	CCTY_T2	3	3	0	4.7	4.6	-0.1	0	0	0	0	0	0	0	0
4/25/2024 8:13	11507	FREE_T2	1	0	-1	0.3	0	-0.3	0.72	0.78	0	0	0	0	0	0
4/25/2024 8:13	54505	ENOL_T2	0	1	1	0	0.8	0.8	-1.3	-1.34	1	1	0	600	600	0
4/25/2024 8:13	54502	ENOL_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
4/25/2024 8:14	17401	FOHI_T1	0	0	0	0	0	0	-1.08	-1.09	0	0	0	0	0	0
4/25/2024 8:18	56501	ROCK_T2	2	2	0	0.55	0.6	0.05	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 8:18	58402	MORO_T1	0	0	0	0	0	0	-1.09	-1.08	3	3	0	2400	2400	0
4/25/2024 8:19	67605	WARW_T1	9	5	-4	0.32	0.4	0.08	-0.87	-0.9	0	0	0	0	0	0
4/25/2024 8:20	56501	ROCK_T2	2	2	0	0.55	0.6	0.05	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 8:21	56501	ROCK_T2	2	2	0	0.55	0.6	0.05	-0.02	-0.02	0	0	0	0	0	0
4/25/2024 8:22	56501	ROCK_T2	2	2	0	0.55	0.6	0.05	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 8:23	56501	ROCK_T2	2	2	0	0.55	0.6	0.05	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 8:24	67505	WEWI_T1	0	0	0	0	0	0	-0.3	-0.33	1	1	0	900	900	0
4/25/2024 8:24	67605	WARW_T1	9	5	-4	0.32	0.4	0.08	-0.9	-0.91	0	0	0	0	0	0
4/25/2024 8:25	67505	WEWI_T1	0	0	0	0	0	0	-0.3	-0.33	1	1	0	900	900	0
4/25/2024 8:26	45501	DERR_T2	0	1	1	0	0.3	0.3	0.64	0.51	2	2	0	1800	1800	0
4/25/2024 8:26	45502	DERR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/25/2024 8:26	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.1	0	0	0	0	0	0
4/25/2024 8:27	14201	EALL_T1	0	0	0	0	0	0	0.47	0.51	0	0	0	0	0	0
4/25/2024 8:27	14203	EALL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 8:27	56501	ROCK_T2	2	2	0	0.55	0.6	0.05	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 8:29	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 8:29	62104	ELAN_T1	0	0	0	0	0	0	1.06	1.19	2	2	0	2400	2400	0
4/25/2024 8:32	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 8:33	58402	MORO_T1	0	0	0	0	0	0	-1.08	-1.15	3	3	0	2400	2400	0
4/25/2024 8:34	57401	SPAN_T1	0	4	4	0	0.6	0.6	-1.23	-1.26	1	1	0	600	600	0
4/25/2024 8:34	57403	SPAN_T1	0	41	41	0	0.28	0.28	0	0	0	0	0	0	0	0
4/25/2024 8:35	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 8:36	58402	MORO_T1	0	0	0	0	0	0	-1.08	-1.15	3	3	0	2400	2400	0
4/25/2024 8:36	57403	SPAN_T1	0	41	41	0	0.28	0.28	0	0	0	0	0	0	0	0
4/25/2024 8:36	57401	SPAN_T1	0	4	4	0	0.6	0.6	-1.23	-1.26	1	1	0	600	600	0
4/25/2024 8:37	56501	ROCK_T2	2	2	0	0.5	0.6	0.1	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 8:37	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 8:38	67703	WERN_T2	0	0	0	0	0	0	-0.32	-0.34	1	1	0	900	900	0
4/25/2024 8:38	57401	SPAN_T1	0	4	4	0	0.6	0.6	-2.51	-2.48	2	2	0	1200	1200	0
4/25/2024 8:38	67701	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 8:38	57403	SPAN_T1	0	41	41	0	0.28	0.28	0	0	0	0	0	0	0	0
4/25/2024 8:40	10801	CHHI_T1	1	3	2	0.1	0.57	0.47	-0.76	-0.8	1	1	0	900	900	0
4/25/2024 8:40	67701	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 8:40	62607	ENGL_T1	0	0	0	0	0	0	-1.21	-1.23	1	1	0	300	300	0
4/25/2024 8:40	67703	WERN_T2	0	0	0	0	0	0	-0.32	-0.34	1	1	0	900	900	0
4/25/2024 8:42	62105	ELAN_T1	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
4/25/2024 8:42	56501	ROCK_T2	2	2	0	0.5	0.6	0.1	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 8:42	40101	HUNT_T2	2	7	5	0.35	0.55	0.2	-0.2	-0.08	0	0	0	0	0	0
4/25/2024 8:47	46301	ROHR_T1	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
4/25/2024 8:47	46302	ROHR_T1	4	4	0	2.08	2.25	0.17	0.15	0.14	0	0	0	0	0	0
4/25/2024 8:48	46301	ROHR_T1	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
4/25/2024 8:48	46302	ROHR_T1	4	4	0	2.08	2.25	0.17	0.15	0.14	0	0	0	0	0	0
4/25/2024 8:49	66504	SMAN_T2	0	1	1	0	0.1	0.1	-1.01	-1.04	0	0	0	0	0	0
4/25/2024 8:49	67605	WARW_T1	5	16	11	0.4	0.62	0.22	-0.91	-0.92	0	0	0	0	0	0
4/25/2024 8:49	66502	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 8:49	66505	SMAN_T2	2	3	1	0.25	0.7	0.45	0	0	0	0	0	0	0	0
4/25/2024 8:52	67703	WERN_T2	0	0	0	0	0	0	-0.32	-0.34	1	1	0	900	900	0
4/25/2024 8:52	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.05	0	0	0	0	0	0
4/25/2024 8:53	15001	BLMO_T1	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/25/2024 8:53	20403	ASHF_T2	12	0	-12	0.13	0	-0.13	0.07	0.08	0	0	0	0	0	0
4/25/2024 8:53	56502	ROCK_T2	2	2	0	0.6	0.7	0.1	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 8:53	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
4/25/2024 8:53	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 8:54	15001	BLMO_T1	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/25/2024 8:54	67605	WARW_T1	5	16	11	0.4	0.62	0.22	-0.92	-0.91	0	0	0	0	0	0
4/25/2024 8:54	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
4/25/2024 8:54	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 8:54	20403	ASHF_T2	12	0	-12	0.13	0	-0.13	0.07	0.08	0	0	0	0	0	0
4/25/2024 8:54	67703	WERN_T2	0	0	0	0	0	0	-0.34	-0.31	1	1	0	900	900	0
4/25/2024 8:55	15001	BLMO_T1	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/25/2024 8:55	67703	WERN_T2	0	0	0	0	0	0	-0.34	-0.31	1	1	0	900	900	0
4/25/2024 8:56	67703	WERN_T2	0	0	0	0	0	0	-0.34	-0.31	1	1	0	900	900	0
4/25/2024 8:56	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
4/25/2024 8:56	29402	BELT_T1	1	1	0	7.3	7.6	0.3	0	0	0	0	0	0	0	0
4/25/2024 8:58	56501	ROCK_T2	2	2	0	0.6	0.7	0.1	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 8:59	45702	LIND_T2	1	1	0	0.2	0.1	-0.1	-0.4	-0.41	0	0	0	0	0	0
4/25/2024 9:00	17401	FOHI_T1	0	2	2	0	0.35	0.35	-1.08	-1.06	0	0	0	0	0	0
4/25/2024 9:04	13704	SCHN_T2	1	1	0	0.1	0.3	0.2	-0.33	-0.32	0	0	0	0	0	0
4/25/2024 9:04	45702	LIND_T2	1	1	0	0.1	0.2	0.1	-0.4	-0.41	0	0	0	0	0	0
4/25/2024 9:05	67605	WARW_T1	16	14	-2	0.62	0.52	-0.1	-0.92	-0.91	0	0	0	0	0	0
4/25/2024 9:07	67605	WARW_T1	16	14	-2	0.62	0.52	-0.1	-0.92	-0.91	0	0	0	0	0	0
4/25/2024 9:09	26001	WDAM_T1	0	0	0	0	0	0	-0.8	-0.78	0	0	0	0	0	0
4/25/2024 9:09	67605	WARW_T1	16	14	-2	0.62	0.52	-0.1	-0.91	-0.92	0	0	0	0	0	0
4/25/2024 9:10	10805	CHHI_T1	1	1	0	7.7	7.8	0.1	-0.66	-0.64	1	1	0	600	600	0
4/25/2024 9:12	40101	HUNT_T2	3	1	-2	0.43	0	-0.43	-0.07	-0.05	0	0	0	0	0	0
4/25/2024 9:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/25/2024 9:13	29402	BELT_T1	1	1	0	7.6	7.5	-0.1	0	0	0	0	0	0	0	0
4/25/2024 9:15	45702	LIND_T2	0	2	2	0	0.25	0.25	-0.41	-0.35	0	0	0	0	0	0
4/25/2024 9:19	56501	ROCK_T2	2	2	0	0.7	1.1	0.4	-0.02	-0.02	0	0	0	0	0	0
4/25/2024 9:19	67605	WARW_T1	14	19	5	0.45	0.54	0.09	-0.91	-0.92	0	0	0	0	0	0
4/25/2024 9:19	67605	WARW_T1	14	19	5	0.45	0.54	0.09	-0.91	-0.92	0	0	0	0	0	0
4/25/2024 9:19	67605	WARW_T1	14	19	5	0.45	0.54	0.09	-0.91	-0.92	0	0	0	0	0	0
4/25/2024 9:19	67605	WARW_T1	14	19	5	0.45	0.54	0.09	-0.91	-0.92	0	0	0	0	0	0
4/25/2024 9:19	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 9:20	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 9:20	56501	ROCK_T2	2	2	0	0.7	1.1	0.4	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 9:22	67605	WARW_T1	14	19	5	0.45	0.54	0.09	-0.91	-0.92	0	0	0	0	0	0
4/25/2024 9:24	58001	WCAR_T1	9	22	13	0.83	0.63	-0.2	0	0	0	0	0	0	0	0
4/25/2024 9:24	67605	WARW_T1	14	19	5	0.45	0.54	0.09	-0.92	-0.92	0	0	0	0	0	0
4/25/2024 9:24	56501	ROCK_T2	2	2	0	0.7	1.1	0.4	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 9:24	58003	WCAR_T1	38	84	46	0.26	0.49	0.23	0.7	0.69	0	0	0	0	0	0
4/25/2024 9:26	58001	WCAR_T1	9	22	13	0.83	0.63	-0.2	0	0	0	0	0	0	0	0
4/25/2024 9:26	58003	WCAR_T1	38	84	46	0.26	0.49	0.23	0.7	0.69	0	0	0	0	0	0
4/25/2024 9:26	41801	GOCI_T2	1	17	16	0.3	0.14	-0.16	0	0	0	0	0	0	0	0
4/25/2024 9:26	41802	GOCI_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 9:28	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
4/25/2024 9:29	54502	ENOL_T2	1	5	4	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
4/25/2024 9:29	41801	GOCI_T2	1	17	16	0.3	0.14	-0.16	0	0	0	0	0	0	0	0
4/25/2024 9:29	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 9:29	41802	GOCI_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 9:29	54505	ENOL_T2	1	2	1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/25/2024 9:29	54503	ENOL_T2	0	0	0	0	0	0	-1.31	-1.37	1	1	0	600	600	0
4/25/2024 9:32	58302	NOTT_T1	0	0	0	0	0	0	-0.23	0.09	1	0	-1	1200	0	-1200
4/25/2024 9:37	13704	SCHN_T2	1	1	0	0.3	0.3	0	-0.33	-0.31	0	0	0	0	0	0
4/25/2024 9:39	43302	WATS_T2	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
4/25/2024 9:39	43304	WATS_T2	0	0	0	0	0	0	-0.58	-0.5	1	0	-1	600	0	-600
4/25/2024 9:39	67605	WARW_T1	13	19	6	0.53	0.57	0.04	-0.92	-0.93	0	0	0	0	0	0
4/25/2024 9:45	67605	WARW_T1	19	20	1	0.54	0.58	0.04	-0.92	-0.93	0	0	0	0	0	0
4/25/2024 9:47	45702	LIND_T2	2	2	0	0.25	0.4	0.15	-0.42	-0.44	0	0	0	0	0	0
4/25/2024 9:47	64101	REFR_T1	0	1	1	0	0	0	-0.58	-0.62	0	0	0	0	0	0
4/25/2024 9:48	45702	LIND_T2	2	2	0	0.25	0.4	0.15	-0.42	-0.44	0	0	0	0	0	0
4/25/2024 9:48	45701	LIND_T2	0	0	0	0	0	0	-0.99	-0.69	0	0	0	0	0	0
4/25/2024 9:48	64101	REFR_T1	0	1	1	0	0	0	-0.58	-0.62	0	0	0	0	0	0
4/25/2024 9:50	43105	SMIL_T2	6	8	2	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
4/25/2024 9:50	43103	SMIL_T2	20	24	4	0.68	0.66	-0.02	0	0	0	0	0	0	0	0
4/25/2024 9:50	43104	SMIL_T2	3	5	2	0.23	0.44	0.21	0	0	0	0	0	0	0	0
4/25/2024 9:50	43102	SMIL_T2	6	7	1	0.5	0.54	0.04	0	0	0	0	0	0	0	0
4/25/2024 9:50	43202	MVIL_T2	60	84	24	0.32	0.46	0.14	-0.59	-0.6	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/25/2024 9:50	43101	SMIL_T2	4	5	1	0.75	0.72	-0.03	-0.85	-0.84	0	0	0	0	0	0
4/25/2024 9:50	43201	MVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/25/2024 9:50	10805	CHHI_T2	1	1	0	7.6	7.5	-0.1	-0.82	-0.76	1	1	0	600	600	0
4/25/2024 9:52	58001	WCAR_T1	22	22	0	0.63	0.66	0.03	0	0	0	0	0	0	0	0
4/25/2024 9:52	58003	WCAR_T1	83	78	-5	0.49	0.46	-0.03	0.69	0.81	0	0	0	0	0	0
4/25/2024 9:53	57401	SPAN_T1	12	32	20	0.5	0.43	-0.07	-1.28	-1.27	1	1	0	600	600	0
4/25/2024 9:53	51102	CARL_T1	58	47	-11	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
4/25/2024 9:53	51109	CARL_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
4/25/2024 9:53	57403	SPAN_T1	142	173	31	0.26	0.41	0.15	0	0	0	0	0	0	0	0
4/25/2024 9:53	51108	CARL_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/25/2024 9:54	10805	CHHI_T2	1	1	0	7.6	7.5	-0.1	-0.76	-0.58	1	1	0	600	600	0
4/25/2024 9:54	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 9:54	57401	SPAN_T1	12	32	20	0.5	0.43	-0.07	-1.28	-1.27	1	1	0	600	600	0
4/25/2024 9:54	54505	ENOL_T2	2	3	1	0.9	0.77	-0.13	-1.33	-1.33	1	1	0	600	600	0
4/25/2024 9:54	43201	MVIL_T2	0	1	1	0	0.4	0.4	-0.39	-0.39	0	0	0	0	0	0
4/25/2024 9:54	67605	WARW_T1	19	20	1	0.54	0.58	0.04	-0.93	-0.94	0	0	0	0	0	0
4/25/2024 9:54	54502	ENOL_T2	5	7	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/25/2024 9:54	43202	MVIL_T2	60	84	24	0.32	0.46	0.14	0	0	0	0	0	0	0	0
4/25/2024 9:54	57403	SPAN_T1	142	173	31	0.26	0.41	0.15	0	0	0	0	0	0	0	0
4/25/2024 9:54	54504	ENOL_T2	1	1	0	0.2	1.3	1.1	0	0	0	0	0	0	0	0
4/25/2024 9:55	10805	CHHI_T2	1	1	0	7.6	7.5	-0.1	-0.76	-0.58	1	1	0	600	600	0
4/25/2024 9:56	58001	WCAR_T1	22	22	0	0.63	0.66	0.03	0	0	0	0	0	0	0	0
4/25/2024 9:56	58003	WCAR_T1	83	78	-5	0.49	0.46	-0.03	0.81	0.75	0	0	0	0	0	0
4/25/2024 9:57	54505	ENOL_T2	2	3	1	0.9	0.77	-0.13	-1.33	-1.33	1	1	0	600	600	0
4/25/2024 9:57	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 9:57	54502	ENOL_T2	5	7	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/25/2024 9:57	54504	ENOL_T2	1	1	0	0.2	1.3	1.1	0	0	0	0	0	0	0	0
4/25/2024 9:59	67703	WERN_T2	1	3	2	0.1	0.27	0.17	-0.3	-0.33	1	1	0	900	900	0
4/25/2024 9:59	67605	WARW_T1	19	20	1	0.54	0.58	0.04	-0.93	-0.94	0	0	0	0	0	0
4/25/2024 9:59	67702	WERN_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
4/25/2024 10:00	64801	MONE_T2	1	1	0	0.9	1.2	0.3	0.23	0.23	0	0	0	0	0	0
4/25/2024 10:00	24102	EHAZ_T1	6	2	-4	1.28	0	-1.28	0	0	0	0	0	0	0	0
4/25/2024 10:00	50701	SMEC_T1	5	5	0	0.62	0.82	0.2	0.05	0.05	0	0	0	0	0	0
4/25/2024 10:00	10801	CHHI_T1	9	10	1	0.46	0.84	0.38	-0.86	-0.9	1	1	0	900	900	0
4/25/2024 10:00	66302	MCGO_T2	1	5	4	0.1	0.3	0.2	-0.79	-0.85	1	1	0	600	600	0
4/25/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
4/25/2024 10:00	12807	MICK_T1	1	3	2	1.2	0.53	-0.67	0.21	0.2	0	0	0	0	0	0
4/25/2024 10:00	58003	WCAR_T1	70	85	15	0.41	0.48	0.07	0.81	0.75	0	0	0	0	0	0
4/25/2024 10:00	43102	SMIL_T2	7	7	0	0.51	0.57	0.06	0	0	0	0	0	0	0	0
4/25/2024 10:00	54505	ENOL_T2	3	3	0	0.67	0.83	0.16	0	0	0	0	0	0	0	0
4/25/2024 10:00	52004	LING_T2	2	2	0	0.15	0.25	0.1	0.28	0.3	0	0	0	0	0	0
4/25/2024 10:00	53902	HALI_T2	1	3	2	5.3	2.03	-3.27	0	0	0	0	0	0	0	0
4/25/2024 10:00	40702	FFLD_T1	8	49	41	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
4/25/2024 10:00	16102	BING_T2	1	1	0	0.3	0.1	-0.2	-0.07	-0.09	0	0	0	0	0	0
4/25/2024 10:00	67702	WERN_T2	1	2	1	0.4	0.65	0.25	0	0	0	0	0	0	0	0
4/25/2024 10:00	12601	MACA_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
4/25/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.15	1	1	0	600	600	0
4/25/2024 10:00	53501	EVIL_T2	2	3	1	0.5	0.47	-0.03	-1.18	-1.24	6	6	0	3600	3600	0
4/25/2024 10:00	29402	BELT_T1	1	1	0	7.5	7.8	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:00	48302	ORWI_T2	2	2	0	1.35	1.2	-0.15	0.01	0.01	0	0	0	0	0	0
4/25/2024 10:00	11805	FRAN_T1	0	0	0	0	0	0	-1.01	-1.08	1	1	0	1200	1200	0
4/25/2024 10:00	12604	MACA_T1	0	1	1	0	0.2	0.2	0.26	0.27	0	0	0	0	0	0
4/25/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.46	-0.25	1	1	0	600	600	0
4/25/2024 10:00	45602	WOOL_T1	7	4	-3	0.5	0.3	-0.2	0.45	0.46	0	0	0	0	0	0
4/25/2024 10:00	47001	HUGH_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:00	52002	LING_T2	3	2	-1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/25/2024 10:00	65004	NEFF_T2	437	582	145	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/25/2024 10:00	24101	EHAZ_T1	5	0	-5	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/25/2024 10:00	16101	BING_T2	0	1	1	0	0.3	0.3	0.29	0.3	0	0	0	0	0	0
4/25/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	0.04	-0.03	1	1	0	1200	1200	0
4/25/2024 10:00	59102	WALK_T2	0	6	6	0	0.25	0.25	-0.6	-0.61	2	2	0	1200	1200	0
4/25/2024 10:00	40505	CRES_T1	3	3	0	4.7	4.87	0.17	0.43	0.48	0	0	0	0	0	0
4/25/2024 10:00	43104	SMIL_T2	4	5	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:00	67605	WARW_T1	18	26	8	0.56	0.55	-0.01	0	0	0	0	0	0	0	0
4/25/2024 10:00	54501	ENOL_T2	2	3	1	0.1	0.17	0.07	0	0	0	0	0	0	0	0
4/25/2024 10:00	65002	NEFF_T2	238	515	277	0.17	0.2	0.03	0	0	0	0	0	0	0	0
4/25/2024 10:00	40201	BEGA_T2	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:00	54503	ENOL_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/25/2024 10:00	13807	SALI_T1	4	4	0	0.28	0.58	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:00	13701	SCHN_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:00	54502	ENOL_T2	3	31	28	0.47	0.14	-0.33	0	0	0	0	0	0	0	0
4/25/2024 10:00	46501	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:00	43202	MVIL_T2	82	65	-17	0.46	0.48	0.02	-0.6	-0.65	0	0	0	0	0	0
4/25/2024 10:00	27502	WEIS_T2	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
4/25/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	0.5	0.42	1	1	0	600	600	0
4/25/2024 10:00	11104	EGYP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/25/2024 10:00	43302	WATS_T2	4	4	0	0.38	0.55	0.17	0	0	0	0	0	0	0	0
4/25/2024 10:00	46002	BERW_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:00	17101	WTRE_T2	2	2	0	9.25	9.35	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:00	59202	THOM_T1	0	20	20	0	0.35	0.35	0	0	0	0	0	0	0	0
4/25/2024 10:00	44505	HAMI_T2	0	1	1	0	0.8	0.8	0.21	0.2	0	0	0	0	0	0
4/25/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-1.52	-1.68	2	2	0	2100	2100	0
4/25/2024 10:00	62607	ENGL_T1	0	1	1	0	0.1	0.1	-1.23	-1.2	1	1	0	300	300	0
4/25/2024 10:00	12803	MICK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:00	42201	SHEN_T2	1	1	0	0.2	0.4	0.2	-0.19	-0.14	1	1	0	600	600	0
4/25/2024 10:00	58001	WCAR_T1	20	24	4	0.64	0.67	0.03	0	0	0	0	0	0	0	0
4/25/2024 10:00	62105	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:00	61302	EARL_T1	0	0	0	0	0	0	0.77	0.74	2	2	0	1800	1800	0
4/25/2024 10:00	13503	MCMI_T2	0	1	1	0	0.4	0.4	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 10:00	58401	MORO_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:00	43103	SMIL_T2	23	23	0	0.66	0.47	-0.19	0	0	0	0	0	0	0	0
4/25/2024 10:00	53901	HALI_T2	1	1	0	0.5	0.8	0.3	-0.45	-0.45	0	0	0	0	0	0
4/25/2024 10:00	46504	LOHA_T1	2	16	14	0.6	0.28	-0.32	0	0	0	0	0	0	0	0
4/25/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	0.66	0.5	0	0	0	0	0	0
4/25/2024 10:00	53903	HALI_T2	2	4	2	1	0.9	-0.1	0	0	0	0	0	0	0	0
4/25/2024 10:00	63306	GREE_T1	0	0	0	0	0	0	-1.21	-1.19	0	0	0	0	0	0
4/25/2024 10:00	46506	LOHA_T1	1	1	0	0.6	0.5	-0.1	-0.94	-0.9	0	0	0	0	0	0
4/25/2024 10:00	12801	MICK_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:00	14204	EALL_T2	0	4	4	0	0.38	0.38	-0.23	-0.26	0	0	0	0	0	0
4/25/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	1.11	1	0	0	0	0	0	0
4/25/2024 10:00	43101	SMIL_T2	4	5	1	0.6	1.02	0.42	-0.84	-0.83	0	0	0	0	0	0
4/25/2024 10:00	47002	HUGH_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/25/2024 10:00	46802	HEPB_T1	1	1	0	0.9	0.8	-0.1	-0.3	-0.32	0	0	0	0	0	0
4/25/2024 10:00	62605	ENGL_T1	0	1	1	0	0.2	0.2	-0.83	-0.87	0	0	0	0	0	0
4/25/2024 10:00	40502	CRES_T2	5	3	-2	0.16	0.17	0.01	0	0	0	0	0	0	0	0
4/25/2024 10:00	24105	EHAZ_T1	4	4	0	6.73	6.58	-0.15	-0.7	-0.71	1	1	0	1200	1200	0
4/25/2024 10:00	52001	LING_T1	0	1	1	0	0.1	0.1	0.21	0.21	0	0	0	0	0	0
4/25/2024 10:00	56504	ROCK_T2	3	4	1	0.83	0.78	-0.05	0	0	0	0	0	0	0	0
4/25/2024 10:00	67703	WERN_T2	3	5	2	0.23	0.34	0.11	-0.3	-0.33	1	1	0	900	900	0
4/25/2024 10:00	46004	BERW_T2	2	4	2	0.15	0.4	0.25	0.11	0.02	0	0	0	0	0	0
4/25/2024 10:00	57101	SPHI_T2	6	6	0	0.95	0.7	-0.25	0	0	0	0	0	0	0	0
4/25/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.14	-0.17	2	2	0	1500	1500	0
4/25/2024 10:00	66303	MCGO_T2	1	2	1	0.3	0.55	0.25	0	0	0	0	0	0	0	0
4/25/2024 10:00	40101	HUNT_T2	5	2	-3	0.5	0	-0.5	-0.43	-0.34	0	0	0	0	0	0
4/25/2024 10:00	44502	HAMI_T2	1	2	1	2.6	1.75	-0.85	-1	-1.01	0	0	0	0	0	0
4/25/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 10:00	11804	FRAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 10:00	56501	ROCK_T2	3	6	3	0.7	0.58	-0.12	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 10:00	42002	MNVL_T2	1	2	1	4.8	2.45	-2.35	0	0	0	0	0	0	0	0
4/25/2024 10:00	56503	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/25/2024 10:00	11102	EGYP_T1	0	3	3	0	0.77	0.77	0	0	0	0	0	0	0	0
4/25/2024 10:00	57103	SPHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/25/2024 10:00	57104	SPHI_T2	2	6	4	0.15	0.22	0.07	-1.19	-1.18	0	0	0	0	0	0
4/25/2024 10:00	65003	NEFF_T2	291	454	163	0.26	0.3	0.04	0	0	0	0	0	0	0	0
4/25/2024 10:00	43304	WATS_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
4/25/2024 10:00	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/25/2024 10:00	43201	MVIL_T2	1	1	0	0.2	0.5	0.3	-0.39	-0.39	0	0	0	0	0	0
4/25/2024 10:00	13805	SALI_T1	2	4	2	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/25/2024 10:00	65001	NEFF_T2	265	274	9	0.32	0.44	0.12	-0.51	-0.55	1	1	0	1200	1200	0
4/25/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.17	1.16	0	0	0	0	0	0
4/25/2024 10:00	22102	EDEL_T1	0	0	0	0	0	0	-0.61	-0.63	1	1	0	1200	1200	0
4/25/2024 10:00	40703	FFLD_T1	4	4	0	0.25	0.5	0.25	0.37	0.32	0	0	0	0	0	0
4/25/2024 10:00	12802	MICK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:00	57106	SPHI_T2	2	3	1	1.6	1.17	-0.43	0	0	0	0	0	0	0	0
4/25/2024 10:00	13801	SALI_T1	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
4/25/2024 10:00	14603	SWHI_T1	0	4	4	0	0.58	0.58	0	0	0	0	0	0	0	0
4/25/2024 10:00	45501	DERR_T2	0	3	3	0	0.35	0.35	0.49	0.6	2	2	0	1800	1800	0
4/25/2024 10:00	16103	BING_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
4/25/2024 10:00	10602	BLGL_T2	1	1	0	9.6	9.8	0.2	1.37	1.32	0	0	0	0	0	0
4/25/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-0.92	-0.93	0	0	0	0	0	0
4/25/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 10:00	52006	LING_T2	5	4	-1	0.66	0.7	0.04	0	0	0	0	0	0	0	0
4/25/2024 10:00	11103	EGYP_T1	4	4	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:00	60803	BUCK_T1	2	12	10	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/25/2024 10:00	43105	SMIL_T2	7	9	2	0.4	0.41	0.01	0	0	0	0	0	0	0	0
4/25/2024 10:00	13704	SCHN_T2	1	1	0	0.1	0.7	0.6	-0.32	-0.31	0	0	0	0	0	0
4/25/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
4/25/2024 10:00	13901	SEID_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
4/25/2024 10:00	16401	MOPO_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/25/2024 10:00	24103	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 10:00	29401	BELT_T1	0	2	2	0	4.5	4.5	0	0	3	3	0	2700	2700	0
4/25/2024 10:00	42001	MNVL_T2	10	18	8	0.48	0.41	-0.07	0	-0.01	0	0	0	0	0	0
4/25/2024 10:00	12605	MACA_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:00	54504	ENOL_T2	1	2	1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:00	40701	FFLD_T1	57	76	19	0.39	0.53	0.14	0	0	0	0	0	0	0	0
4/25/2024 10:00	64802	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:00	65005	NEFF_T2	10	15	5	0.16	0.22	0.06	0	0	0	0	0	0	0	0
4/25/2024 10:01	46506	LOHA_T1	1	1	0	0.6	0.5	-0.1	-0.47	-0.45	0	0	0	0	0	0
4/25/2024 10:01	46501	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:01	46504	LOHA_T1	2	16	14	0.6	0.28	-0.32	0	0	0	0	0	0	0	0
4/25/2024 10:06	56501	ROCK_T2	3	6	3	0.7	0.58	-0.12	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 10:06	64902	MILL_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/25/2024 10:06	56503	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/25/2024 10:06	45902	AUBU_T1	0	0	0	0	0	0	-0.58	-0.64	1	1	0	600	600	0
4/25/2024 10:06	56504	ROCK_T2	3	4	1	0.83	0.78	-0.05	0	0	0	0	0	0	0	0
4/25/2024 10:07	22405	MORG_T2	0	0	0	0	0	0	-1.55	-1.53	0	0	0	0	0	0
4/25/2024 10:07	57205	ROSS_T1	1	1	0	1.4	2	0.6	0.08	0.08	0	0	0	0	0	0
4/25/2024 10:07	22406	MORG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 10:07	13701	SCHN_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:07	46002	BERW_T2	1	1	0	0.4	0.7	0.3	-1.27	-1.27	1	1	0	900	900	0
4/25/2024 10:07	54001	SDLE_T1	4	8	4	0.63	0.53	-0.1	0	0	1	1	0	600	600	0
4/25/2024 10:07	67703	WERN_T2	3	5	2	0.23	0.34	0.11	-0.3	-0.33	1	1	0	900	900	0
4/25/2024 10:07	67702	WERN_T2	1	2	1	0.4	0.65	0.25	0	0	0	0	0	0	0	0
4/25/2024 10:07	67001	STHI_T2	184	224	40	0.11	0.13	0.02	0	0	0	0	0	0	0	0
4/25/2024 10:07	58402	MORO_T1	0	0	0	0	0	0	-0.14	-0.17	2	2	0	1500	1500	0
4/25/2024 10:07	63802	HEMP_T1	18	51	33	0.11	0.13	0.02	0	0	0	0	0	0	0	0
4/25/2024 10:07	67605	WARW_T1	18	26	8	0.56	0.55	-0.01	-0.93	-0.94	0	0	0	0	0	0
4/25/2024 10:07	63803	HEMP_T1	39	115	76	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
4/25/2024 10:07	51401	LYKE_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
4/25/2024 10:07	50501	MECH_T1	4	4	0	1.03	1.2	0.17	0	0	0	0	0	0	0	0
4/25/2024 10:07	50503	MECH_T1	1	1	0	0.2	1.1	0.9	0	0	0	0	0	0	0	0
4/25/2024 10:07	58401	MORO_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:07	63804	HEMP_T1	5	6	1	1.28	1.08	-0.2	0	0	0	0	0	0	0	0
4/25/2024 10:07	45902	AUBU_T1	0	0	0	0	0	0	-0.58	-0.64	1	1	0	600	600	0
4/25/2024 10:07	67002	STHI_T2	28	53	25	0.18	0.3	0.12	0.64	0.66	0	0	0	0	0	0
4/25/2024 10:07	50502	MECH_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:07	53801	MBRG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 10:07	63801	HEMP_T1	12	18	6	0.22	0.36	0.14	0.13	0.2	0	0	0	0	0	0
4/25/2024 10:07	53802	MBRG_T2	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
4/25/2024 10:07	50505	MECH_T1	0	1	1	0	0.2	0.2	-0.93	-0.88	0	0	0	0	0	0
4/25/2024 10:07	46004	BERW_T2	2	4	2	0.15	0.4	0.25	0	0	0	0	0	0	0	0
4/25/2024 10:07	50504	MECH_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/25/2024 10:07	67602	WARW_T2	0	0	0	0	0	0	0.09	-0.03	1	1	0	1200	1200	0
4/25/2024 10:07	50506	MECH_T1	1	2	1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:07	13704	SCHN_T2	1	1	0	0.1	0.7	0.6	-0.32	-0.31	0	0	0	0	0	0
4/25/2024 10:08	51003	NHAR_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/25/2024 10:08	57401	SPAN_T1	30	40	10	0.42	0.42	0	-2.54	-2.52	2	2	0	1200	1200	0
4/25/2024 10:08	60502	NMAN_T2	0	0	0	0	0	0	-0.32	-0.27	0	0	0	0	0	0
4/25/2024 10:08	43103	SMIL_T2	23	23	0	0.66	0.47	-0.19	0	0	0	0	0	0	0	0
4/25/2024 10:08	60504	NMAN_T2	3	2	-1	0.57	0.4	-0.17	0	0	0	0	0	0	0	0
4/25/2024 10:08	42903	MIDD_T2	0	0	0	0	0	0	0.03	0.27	1	1	0	1200	1200	0
4/25/2024 10:08	60701	BREC_T1	0	2	2	0	0.2	0.2	-0.34	-0.37	2	2	0	1200	1200	0
4/25/2024 10:08	43101	SMIL_T2	4	5	1	0.6	1.02	0.42	0	0	0	0	0	0	0	0
4/25/2024 10:08	59202	THOM_T1	0	20	20	0	0.35	0.35	0	0	0	0	0	0	0	0
4/25/2024 10:08	57403	SPAN_T1	168	171	3	0.4	0.38	-0.02	-0.02	-0.01	0	0	0	0	0	0
4/25/2024 10:08	58803	COCO_T1	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
4/25/2024 10:08	54601	SUMM_T2	11	9	-2	0.38	0.61	0.23	0	0	0	0	0	0	0	0
4/25/2024 10:08	42302	MOWR_T2	0	0	0	0	0	0	0.01	0.07	0	0	0	0	0	0
4/25/2024 10:08	43105	SMIL_T2	7	9	2	0.4	0.41	0.01	0	0	0	0	0	0	0	0
4/25/2024 10:08	51004	NHAR_T1	15	15	0	1.07	1.31	0.24	0	0	0	0	0	0	0	0
4/25/2024 10:08	43102	SMIL_T2	7	7	0	0.51	0.57	0.06	0	0	0	0	0	0	0	0
4/25/2024 10:08	60501	NMAN_T2	3	4	1	5.27	4.38	-0.89	0	0	0	0	0	0	0	0
4/25/2024 10:08	67602	WARW_T2	0	0	0	0	0	0	-0.03	-0.07	1	1	0	1200	1200	0
4/25/2024 10:08	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/25/2024 10:08	47104	MARL_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
4/25/2024 10:08	15001	BLMO_T1	3	4	1	0.33	0.33	0	0	0	0	0	0	0	0	0
4/25/2024 10:08	40902	JESH_T1	0	0	0	0	0	0	0.03	0.06	1	1	0	600	600	0
4/25/2024 10:08	45702	LIND_T2	2	1	-1	0.4	0.2	-0.2	-0.44	-0.44	0	0	0	0	0	0
4/25/2024 10:08	65702	RVIL_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
4/25/2024 10:08	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.14	1	1	0	600	600	0
4/25/2024 10:08	51002	NHAR_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
4/25/2024 10:08	25603	ARRO_T1	0	1	1	0	0.2	0.2	-0.17	-0.17	0	0	0	0	0	0
4/25/2024 10:08	64305	LINC_T1	0	1	1	0	0	0	-0.15	-0.16	0	0	0	0	0	0
4/25/2024 10:08	54602	SUMM_T2	0	0	0	0	0	0	-1.22	-1.21	1	1	0	600	600	0
4/25/2024 10:08	64904	MILL_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
4/25/2024 10:08	43104	SMIL_T2	4	5	1	0.4	0.5	0.1	-0.81	-0.8	1	1	0	300	300	0
4/25/2024 10:08	10805	CHHI_T2	1	4	3	7.5	2	-5.5	-0.76	-0.58	1	1	0	600	600	0
4/25/2024 10:09	43301	WATS_T2	0	0	0	0	0	0	-0.79	-0.76	1	1	0	900	900	0
4/25/2024 10:09	67703	WERN_T2	3	5	2	0.23	0.34	0.11	-0.66	-0.62	2	2	0	1800	1800	0
4/25/2024 10:09	46001	BERW_T1	0	0	0	0	0	0	0.9	0.84	0	0	0	0	0	0
4/25/2024 10:09	45602	WOOL_T1	7	4	-3	0.5	0.3	-0.2	0.46	0.44	0	0	0	0	0	0
4/25/2024 10:09	43304	WATS_T2	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
4/25/2024 10:09	15103	UPHA_T2	2	2	0	0.4	0.5	0.1	0.36	0.37	0	0	0	0	0	0
4/25/2024 10:09	43302	WATS_T2	4	4	0	0.38	0.55	0.17	0	0	0	0	0	0	0	0
4/25/2024 10:09	10801	CHHI_T1	9	10	1	0.46	0.84	0.38	-0.9	-0.86	1	1	0	900	900	0
4/25/2024 10:09	67702	WERN_T2	1	2	1	0.4	0.65	0.25	0	0	0	0	0	0	0	0
4/25/2024 10:09	46005	BERW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:09	45501	DERR_T2	0	3	3	0	0.35	0.35	0.6	0.53	2	2	0	1800	1800	0
4/25/2024 10:10	29401	BELT_T1	0	2	2	0	4.5	4.5	0	0	2	0	-2	1800	0	-1800
4/25/2024 10:10	67203	TEHI_T1	0	1	1	0	0	0	2.54	2.43	2	2	0	1200	1200	0
4/25/2024 10:10	67605	WARW_T1	18	26	8	0.56	0.55	-0.01	-0.94	-0.87	0	0	0	0	0	0
4/25/2024 10:10	67702	WERN_T2	1	2	1	0.4	0.65	0.25	0	0	0	0	0	0	0	0
4/25/2024 10:10	41502	FAIR_T2	0	0	0	0	0	0	-0.7	-0.67	0	0	0	0	0	0
4/25/2024 10:10	57401	SPAN_T1	30	40	10	0.42	0.42	0	-1.27	-1.26	1	1	0	600	600	0
4/25/2024 10:10	46004	BERW_T2	2	4	2	0.15	0.4	0.25	0.02	-0.05	0	0	0	0	0	0
4/25/2024 10:10	10801	CHHI_T1	9	10	1	0.46	0.84	0.38	-0.9	-0.86	1	1	0	900	900	0
4/25/2024 10:10	67703	WERN_T2	3	5	2	0.23	0.34	0.11	-0.33	-0.31	1	1	0	900	900	0
4/25/2024 10:10	67201	TEHI_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 10:10	29402	BELT_T1	1	1	0	7.5	7.8	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:10	46002	BERW_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:10	57403	SPAN_T1	168	171	3	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
4/25/2024 10:11	10805	CHHI_T2	1	4	3	7.5	2	-5.5	-0.58	-0.55	1	1	0	600	600	0
4/25/2024 10:11	67702	WERN_T2	1	2	1	0.4	0.65	0.25	-0.12	-0.1	0	0	0	0	0	0
4/25/2024 10:11	67703	WERN_T2	3	5	2	0.23	0.34	0.11	0	0	0	0	0	0	0	0
4/25/2024 10:12	62607	ENGL_T1	0	1	1	0	0.1	0.1	-1.2	-1.2	1	1	0	300	300	0
4/25/2024 10:12	50106	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 10:12	62605	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:12	50201	HARR_T3	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:12	50105	HARR_T3	6	6	0	5.97	5.93	-0.04	0	0	0	0	0	0	0	0
4/25/2024 10:12	50102	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 10:12	50103	HARR_T3	2	3	1	0.3	0.47	0.17	0.23	0.24	0	0	0	0	0	0
4/25/2024 10:12	15001	BLMO_T1	3	4	1	0.33	0.33	0	0	0	0	0	0	0	0	0
4/25/2024 10:13	29402	BELT_T1	1	1	0	7.5	7.8	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:13	60902	DONG_T2	0	1	1	0	0.2	0.2	0.64	0.66	0	0	0	0	0	0
4/25/2024 10:13	62607	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:13	60903	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:13	60901	DONG_T2	2	3	1	0.2	0.2	0	0	0	0	0	0	0	0	0
4/25/2024 10:13	29401	BELT_T1	0	2	2	0	4.5	4.5	0	0	1	0	-1	900	0	-900
4/25/2024 10:13	60904	DONG_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:13	45501	DERR_T2	0	3	3	0	0.35	0.35	0.6	0.53	2	2	0	1800	1800	0
4/25/2024 10:13	62605	ENGL_T1	0	1	1	0	0.2	0.2	-1.73	-1.68	0	0	0	0	0	0
4/25/2024 10:14	22602	KIMB_T1	1	1	0	0.1	0.5	0.4	0.31	0.29	0	0	0	0	0	0
4/25/2024 10:14	45501	DERR_T2	0	3	3	0	0.35	0.35	0.6	0.53	2	2	0	1800	1800	0
4/25/2024 10:14	62607	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:14	22601	KIMB_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:14	62605	ENGL_T1	0	1	1	0	0.2	0.2	-1.73	-1.68	0	0	0	0	0	0
4/25/2024 10:15	29401	BELT_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 10:15	29402	BELT_T1	1	1	0	7.8	6.7	-1.1	0	0	0	0	0	0	0	0
4/25/2024 10:15	62605	ENGL_T1	0	3	3	0	0.17	0.17	-0.87	-0.84	0	0	0	0	0	0
4/25/2024 10:15	62607	ENGL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:15	63802	GREE_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
4/25/2024 10:16	62607	ENGL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:16	62601	ENGL_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
4/25/2024 10:16	62605	ENGL_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/25/2024 10:17	45702	LIND_T2	1	1	0	0.2	0.3	0.1	-0.44	-0.45	0	0	0	0	0	0
4/25/2024 10:17	24902	WHHA_T1	96	56	-40	0.7	0.54	-0.16	0	0	0	0	0	0	0	0
4/25/2024 10:17	24901	WHHA_T1	3	10	7	3.5	0.35	-3.15	0	0	0	0	0	0	0	0
4/25/2024 10:18	50504	MECH_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/25/2024 10:18	58401	MORO_T1	1	2	1	0.1	0.35	0.25	-2.07	-2.05	2	2	0	1200	1200	0
4/25/2024 10:18	50505	MECH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:18	65503	MOJO_T2	0	4	4	0	0.38	0.38	-0.42	-0.39	0	0	0	0	0	0
4/25/2024 10:18	50502	MECH_T1	1	1	0	2.1	2.1	0	-0.01	-0.05	0	0	0	0	0	0
4/25/2024 10:18	57205	ROSS_T1	1	2	1	1.8	1.1	-0.7	0.08	0.07	0	0	0	0	0	0
4/25/2024 10:18	10805	CHHI_T2	1	21	20	7.9	0.63	-7.27	-0.58	-0.55	1	1	0	600	600	0
4/25/2024 10:18	50503	MECH_T1	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
4/25/2024 10:18	24901	WHHA_T1	3	10	7	3.5	0.35	-3.15	0	0	0	0	0	0	0	0
4/25/2024 10:18	50501	MECH_T1	4	4	0	1.2	1.2	0	0	0	0	0	0	0	0	0
4/25/2024 10:18	24902	WHHA_T1	96	56	-40	0.7	0.54	-0.16	0	0	0	0	0	0	0	0
4/25/2024 10:18	65502	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:18	50506	MECH_T1	2	3	1	0.55	0.77	0.22	0	0	0	0	0	0	0	0
4/25/2024 10:19	57104	SPHI_T2	4	6	2	1.05	0.37	-0.68	0	0	0	0	0	0	0	0
4/25/2024 10:19	47401	PENS_T1	1	5	4	0.1	0.48	0.38	0.8	0.76	0	0	0	0	0	0
4/25/2024 10:19	47001	HUGH_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/25/2024 10:19	47403	PENS_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
4/25/2024 10:19	57106	SPHI_T2	3	3	0	1.13	1.17	0.04	0	0	0	0	0	0	0	0
4/25/2024 10:19	58402	MORO_T1	0	0	0	0	0	0	-0.17	-0.16	2	2	0	1500	1500	0
4/25/2024 10:19	57103	SPHI_T2	1	0	-1	0.1	0	-0.1	-0.34	0.3	1	0	-1	600	0	-600
4/25/2024 10:19	47002	HUGH_T2	1	3	2	0.2	0.47	0.27	0	0	0	0	0	0	0	0
4/25/2024 10:19	59003	MIFF_T1	1	0	-1	0.2	0	-0.2	-1.21	-0.22	0	0	0	0	0	0
4/25/2024 10:19	57101	SPHI_T2	6	6	0	0.7	0.73	0.03	0	0	0	0	0	0	0	0
4/25/2024 10:19	58401	MORO_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
4/25/2024 10:19	47402	PENS_T1	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
4/25/2024 10:21	57004	WHHI_T2	0	0	0	0	0	0	-0.48	-0.45	0	0	0	0	0	0
4/25/2024 10:21	40302	TAMA_T3	8	9	1	0.38	0.37	-0.01	0.34	0.36	0	0	0	0	0	0
4/25/2024 10:21	47001	HUGH_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/25/2024 10:21	47002	HUGH_T2	1	3	2	0.2	0.47	0.27	0	0	0	0	0	0	0	0
4/25/2024 10:21	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 10:21	57006	WHHI_T2	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/25/2024 10:21	57003	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:22	16504	STRO_T1	0	0	0	0	0	0	0.15	0.16	1	1	0	1200	1200	0
4/25/2024 10:22	57006	WHHI_T2	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/25/2024 10:22	65901	SAKR_T2	1	2	1	8.8	4.9	-3.9	-1.33	-1.28	1	1	0	900	900	0
4/25/2024 10:22	57003	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:22	65904	SAKR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:22	57004	WHHI_T2	0	0	0	0	0	0	-0.48	-0.45	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/25/2024 10:23	26001	WDAM_T1	0	0	0	0	0	0	-0.8	-0.78	0	0	0	0	0	0
4/25/2024 10:23	57101	SPHI_T2	6	6	0	0.7	0.73	0.03	0	0	0	0	0	0	0	0
4/25/2024 10:23	57006	WHHI_T2	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/25/2024 10:23	26002	WDAM_T1	2	3	1	0.9	0.57	-0.33	0	0	0	0	0	0	0	0
4/25/2024 10:23	57106	SPHI_T2	3	3	0	1.13	1.17	0.04	0	0	0	0	0	0	0	0
4/25/2024 10:23	67605	WARW_T1	20	28	8	0.58	0.53	-0.05	0	0	0	0	0	0	0	0
4/25/2024 10:23	57104	SPHI_T2	4	6	2	1.05	0.37	-0.68	-2.35	-2.37	0	0	0	0	0	0
4/25/2024 10:23	57103	SPHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 10:23	57002	WHHI_T2	0	0	0	0	0	0	-1.59	-1.57	1	1	0	1200	1200	0
4/25/2024 10:23	57003	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:23	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0.01	0	0	0	0	0	0
4/25/2024 10:24	57002	WHHI_T2	0	0	0	0	0	0	-1.59	-1.57	1	1	0	1200	1200	0
4/25/2024 10:24	67605	WARW_T1	20	28	8	0.58	0.53	-0.05	-0.87	-0.9	0	0	0	0	0	0
4/25/2024 10:24	57003	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:24	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/25/2024 10:24	57006	WHHI_T2	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/25/2024 10:24	13701	SCHN_T2	3	3	0	0.2	0.23	0.03	0	0	0	0	0	0	0	0
4/25/2024 10:24	65503	MOJO_T2	0	4	4	0	0.38	0.38	-0.39	-0.36	0	0	0	0	0	0
4/25/2024 10:24	65502	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:24	13704	SCHN_T2	1	1	0	0.5	0.7	0.2	-0.31	-0.32	0	0	0	0	0	0
4/25/2024 10:24	15001	BLMO_T1	4	4	0	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
4/25/2024 10:25	22101	EDEL_T2	1	1	0	0.4	0.5	0.1	0.34	0.36	1	1	0	1200	1200	0
4/25/2024 10:26	17401	FOHI_T1	1	2	1	0.1	0.35	0.25	-1.05	-1.02	0	0	0	0	0	0
4/25/2024 10:28	62607	ENGL_T1	0	1	1	0	0.3	0.3	-1.2	-1.21	1	1	0	300	300	0
4/25/2024 10:28	28403	HART_T2	0	1	1	0	0.2	0.2	-0.97	-0.95	1	1	0	900	900	0
4/25/2024 10:28	64704	LITI_T1	0	0	0	0	0	0	0.14	0.16	1	1	0	600	600	0
4/25/2024 10:28	62605	ENGL_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/25/2024 10:30	23404	HONE_T1	1	1	0	2.6	2.5	-0.1	0	0	0	0	0	0	0	0
4/25/2024 10:30	16403	MOPO_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
4/25/2024 10:30	45702	LIND_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:30	64702	LITI_T2	0	0	0	0	0	0	-1.51	-1.34	0	0	0	0	0	0
4/25/2024 10:30	45701	LIND_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
4/25/2024 10:30	23403	HONE_T1	0	2	2	0	0.2	0.2	-0.64	-0.71	0	0	0	0	0	0
4/25/2024 10:30	17401	FOHI_T1	1	2	1	0.5	0.3	-0.2	-1.05	-1.02	0	0	0	0	0	0
4/25/2024 10:30	61801	EELI_T2	1	1	0	0.2	0.1	-0.1	-0.52	-0.56	0	0	0	0	0	0
4/25/2024 10:31	62607	ENGL_T1	1	5	4	0.1	0.24	0.14	-1.2	-1.21	1	1	0	300	300	0
4/25/2024 10:31	62605	ENGL_T1	1	7	6	0.2	0.23	0.03	0	0	0	0	0	0	0	0
4/25/2024 10:31	62602	ENGL_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/25/2024 10:32	40101	HUNT_T2	1	0	-1	1.2	0	-1.2	-0.08	-0.08	0	0	0	0	0	0
4/25/2024 10:32	64704	LITI_T1	0	0	0	0	0	0	0.14	0.16	1	1	0	600	600	0
4/25/2024 10:33	25502	MADI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:33	47401	PENS_T1	3	5	2	0.57	0.36	-0.21	0.76	0.82	0	0	0	0	0	0
4/25/2024 10:33	64702	LITI_T2	0	0	0	0	0	0	-0.76	-0.67	0	0	0	0	0	0
4/25/2024 10:33	47403	PENS_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
4/25/2024 10:33	47402	PENS_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
4/25/2024 10:33	25501	MADI_T1	2	2	0	0.25	0.7	0.45	0	0	0	0	0	0	0	0
4/25/2024 10:33	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 10:33	25503	MADI_T1	2	1	-1	0.1	0.3	0.2	-1.07	-1.05	0	0	0	0	0	0
4/25/2024 10:34	54601	SUMM_T2	9	9	0	0.6	0.53	-0.07	-1.96	-1.93	2	2	0	2100	2100	0
4/25/2024 10:34	60501	NMAN_T2	4	4	0	4.35	4.38	0.03	0	0	0	0	0	0	0	0
4/25/2024 10:34	58401	MORO_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/25/2024 10:34	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 10:34	47401	PENS_T1	3	5	2	0.57	0.36	-0.21	0.76	0.82	0	0	0	0	0	0
4/25/2024 10:34	60504	NMAN_T2	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/25/2024 10:34	60502	NMAN_T2	0	0	0	0	0	0	-0.27	-0.42	0	0	0	0	0	0
4/25/2024 10:34	47403	PENS_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
4/25/2024 10:34	47402	PENS_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
4/25/2024 10:34	58402	MORO_T1	0	0	0	0	0	0	-0.16	-0.1	2	2	0	1500	1500	0
4/25/2024 10:35	64101	REFR_T1	0	0	0	0	0	0	-1.24	-1.35	0	0	0	0	0	0
4/25/2024 10:35	58401	MORO_T1	2	2	0	0.3	0.35	0.05	-1.03	-1.07	1	1	0	600	600	0
4/25/2024 10:35	42001	MNVL_T2	15	28	13	0.45	0.34	-0.11	0	0	0	0	0	0	0	0
4/25/2024 10:35	42002	MNVL_T2	2	0	-2	2.45	0	-0.05	-0.08	-0.08	0	0	0	0	0	0
4/25/2024 10:37	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 10:37	66701	STRA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:37	66703	STRA_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
4/25/2024 10:38	20403	ASHF_T2	7	14	7	0.37	0.54	0.17	0.14	0.13	0	0	0	0	0	0
4/25/2024 10:38	57006	WHHI_T2	2	1	-1	0.5	1.2	0.7	0.25	0.18	1	1	0	600	600	0
4/25/2024 10:38	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:38	20401	ASHF_T2	1	5	4	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/25/2024 10:38	66701	STRA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:38	66703	STRA_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
4/25/2024 10:38	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 10:38	57003	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:39	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 10:39	60901	DONG_T2	3	10	7	0.17	0.48	0.31	0	0	0	0	0	0	0	0
4/25/2024 10:39	20403	ASHF_T2	7	14	7	0.37	0.54	0.17	0.14	0.13	0	0	0	0	0	0
4/25/2024 10:39	20401	ASHF_T2	1	5	4	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/25/2024 10:39	60903	DONG_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/25/2024 10:39	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:39	60904	DONG_T2	1	9	8	0.3	0.41	0.11	0	0	0	0	0	0	0	0
4/25/2024 10:39	60902	DONG_T2	1	1	0	0.2	0.7	0.5	0.63	0.65	0	0	0	0	0	0
4/25/2024 10:39	67601	WARW_T2	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
4/25/2024 10:40	20401	ASHF_T2	1	5	4	0.1	0.5	0.4	-0.33	-0.37	0	0	0	0	0	0
4/25/2024 10:40	54501	ENOL_T2	3	4	1	0.17	0.2	0.03	0.1	0.09	0	0	0	0	0	0
4/25/2024 10:40	54503	ENOL_T2	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
4/25/2024 10:40	54504	ENOL_T2	2	2	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/25/2024 10:40	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:40	54502	ENOL_T2	31	36	5	0.14	0.16	0.02	0	0	0	0	0	0	0	0
4/25/2024 10:40	20403	ASHF_T2	7	14	7	0.37	0.54	0.17	0	0	0	0	0	0	0	0
4/25/2024 10:40	54505	ENOL_T2	3	3	0	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
4/25/2024 10:41	46301	ROHR_T1	11	12	1	0.59	0.62	0.03	0.17	0.14	0	0	0	0	0	0
4/25/2024 10:41	54503	ENOL_T2	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
4/25/2024 10:41	20401	ASHF_T2	1	5	4	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/25/2024 10:41	54502	ENOL_T2	31	36	5	0.14	0.16	0.02	0	0	0	0	0	0	0	0
4/25/2024 10:41	45501	DERR_T2	3	4	1	0.27	0.67	0.4	1.21	1.28	4	4	0	3600	3600	0
4/25/2024 10:41	20403	ASHF_T2	7	14	7	0.37	0.54	0.17	0.14	0.13	0	0	0	0	0	0
4/25/2024 10:41	45502	DERR_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/25/2024 10:41	54505	ENOL_T2	3	3	0	0.73	0.7	-0.03	-1.37	-1.35	1	1	0	600	600	0
4/25/2024 10:41	54501	ENOL_T2	3	4	1	0.17	0.2	0.03	0.1	0.09	0	0	0	0	0	0
4/25/2024 10:41	54504	ENOL_T2	2	2	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/25/2024 10:41	46302	ROHR_T1	7	9	2	1.33	1.32	-0.01	0	0	0	0	0	0	0	0
4/25/2024 10:41	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:42	54505	ENOL_T2	3	3	0	0.73	0.7	-0.03	-1.37	-1.35	1	1	0	600	600	0
4/25/2024 10:42	46302	ROHR_T1	7	9	2	1.33	1.32	-0.01	0	0	0	0	0	0	0	0
4/25/2024 10:42	54503	ENOL_T2	2	2	0	0.35	0.2	-0.15	-1.38	-1.38	1	1	0	600	600	0
4/25/2024 10:42	54502	ENOL_T2	31	36	5	0.14	0.16	0.02	0	0	0	0	0	0	0	0
4/25/2024 10:42	57003	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:42	46301	ROHR_T1	11	12	1	0.59	0.62	0.03	0.17	0.14	0	0	0	0	0	0
4/25/2024 10:42	57006	WHHI_T2	2	1	-1	0.5	1.2	0.7	0.25	0.18	1	1	0	600	600	0
4/25/2024 10:42	54501	ENOL_T2	3	4	1	0.17	0.2	0.03	0	0	0	0	0	0	0	0
4/25/2024 10:42	54504	ENOL_T2	2	2	0	0.9	0.8	-0.1	-0.97	-0.96	1	1	0	600	600	0
4/25/2024 10:43	46301	ROHR_T1	11	12	1	0.59	0.62	0.03	0	0	0	0	0	0	0	0
4/25/2024 10:43	54503	ENOL_T2	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
4/25/2024 10:43	54504	ENOL_T2	2	2	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/25/2024 10:43	54505	ENOL_T2	3	3	0	0.73	0.7	-0.03	-1.37	-1.35	1	1	0	600	600	0
4/25/2024 10:43	46302	ROHR_T1	7	9	2	1.33	1.32	-0.01	0.3	0.2	0	0	0	0	0	0
4/25/2024 10:43	54502	ENOL_T2	31	36	5	0.14	0.16	0.02	0	0	0	0	0	0	0	0
4/25/2024 10:43	54501	ENOL_T2	3	4	1	0.17	0.2	0.03	0	0	0	0	0	0	0	0
4/25/2024 10:44	26401	INOR_T1	1	2	1	7.4	3.8	-3.6	0.9	1.03	0	0	0	0	0	0
4/25/2024 10:44	46302	ROHR_T1	7	9	2	1.33	1.32	-0.01	0	0	0	0	0	0	0	0
4/25/2024 10:44	10903	COOP_T2	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
4/25/2024 10:44	61801	EELI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/25/2024 10:44	46301	ROHR_T1	11	12	1	0.59	0.62	0.03	0.17	0.14	0	0	0	0	0	0
4/25/2024 10:44	41502	FAIR_T2	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
4/25/2024 10:44	10901	COOP_T2	0	0	0	0	0	0	0.98	0.94	0	0	0	0	0	0
4/25/2024 10:44	61803	EELI_T2	0	0	0	0	0	0	0.2	0.24	1	1	0	600	600	0
4/25/2024 10:45	54502	ENOL_T2	36	4	-32	0.15	0.38	0.23	0	0	0	0	0	0	0	0
4/25/2024 10:45	54503	ENOL_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 10:45	54504	ENOL_T2	2	2	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
4/25/2024 10:45	44505	HAMI_T2	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
4/25/2024 10:45	44502	HAMI_T2	5	5	0	0.96	1.06	0.1	-1	-0.99	0	0	0	0	0	0
4/25/2024 10:45	54505	ENOL_T2	2	4	2	0.85	0.5	-0.35	-2.74	-2.7	2	2	0	1200	1200	0
4/25/2024 10:45	11507	FREE_T2	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
4/25/2024 10:45	54501	ENOL_T2	2	3	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:46	44502	HAMI_T2	5	5	0	0.96	1.06	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:46	42902	MIDD_T2	2	1	-1	0.15	0.4	0.25	-1.7	-1.61	2	2	0	1200	1200	0
4/25/2024 10:46	12803	MICK_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:46	12802	MICK_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:46	12801	MICK_T1	0	0	0	0	0	0	-0.03	-0.1	1	1	0	600	600	0
4/25/2024 10:46	12807	MICK_T1	3	4	1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
4/25/2024 10:46	44504	HAMI_T2	0	0	0	0	0	0	-1.04	-1.05	0	0	0	0	0	0
4/25/2024 10:46	44505	HAMI_T2	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
4/25/2024 10:47	55001	NEWP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/25/2024 10:47	12602	MACA_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
4/25/2024 10:47	65603	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:47	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:47	12605	MACA_T1	2	1	-1	0.35	0.8	0.45	0	0	0	0	0	0	0	0
4/25/2024 10:47	55002	NEWP_T1	10	10	0	0.98	1.05	0.07	-0.21	-0.21	0	0	0	0	0	0
4/25/2024 10:47	65601	QVIL_T2	0	5	5	0	0.32	0.32	0	0	0	0	0	0	0	0
4/25/2024 10:47	12601	MACA_T1	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
4/25/2024 10:47	12604	MACA_T1	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
4/25/2024 10:47	65604	QVIL_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
4/25/2024 10:48	55001	NEWP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/25/2024 10:48	12802	MICK_T1	0	2	2	0	0.1	0.1	-0.98	-0.98	0	0	0	0	0	0
4/25/2024 10:48	12807	MICK_T1	3	4	1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
4/25/2024 10:48	10805	CHHI_T2	21	1	-20	0.63	7.6	6.97	-0.73	-0.48	1	0	-1	600	0	-600
4/25/2024 10:48	12803	MICK_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:48	55002	NEWP_T1	10	10	0	0.98	1.05	0.07	-0.21	-0.21	0	0	0	0	0	0
4/25/2024 10:48	42201	SHEN_T2	2	3	1	0.4	0.5	0.1	-0.16	-0.14	1	1	0	600	600	0
4/25/2024 10:49	55001	NEWP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/25/2024 10:49	14402	SSLA_T1	3	6	3	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/25/2024 10:49	14401	SSLA_T1	6	7	1	0.52	0.56	0.04	-0.56	-0.54	0	0	0	0	0	0
4/25/2024 10:49	42902	MIDD_T2	2	1	-1	0.15	0.4	0.25	-0.85	-0.8	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/25/2024 10:49	14403	SSLA_T1	4	3	-1	0.53	0.67	0.14	0	0	0	0	0	0	0	0
4/25/2024 10:49	14404	SSLA_T1	9	10	1	1.03	1.03	0	0	0	0	0	0	0	0	0
4/25/2024 10:49	55002	NEWP_T1	10	10	0	0.98	1.05	0.07	-0.21	-0.21	0	0	0	0	0	0
4/25/2024 10:50	59101	WALK_T2	0	0	0	0	0	0	1.43	1.47	0	0	0	0	0	0
4/25/2024 10:50	14404	SSLA_T1	9	10	1	1.03	1.03	0	0	0.01	0	0	0	0	0	0
4/25/2024 10:50	14401	SSLA_T1	6	7	1	0.52	0.56	0.04	0	0	0	0	0	0	0	0
4/25/2024 10:50	14403	SSLA_T1	4	3	-1	0.53	0.67	0.14	0.64	0.67	0	0	0	0	0	0
4/25/2024 10:50	59102	WALK_T2	8	7	-1	0.54	0.53	-0.01	0	0	0	0	0	0	0	0
4/25/2024 10:50	14402	SSLA_T1	3	6	3	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/25/2024 10:51	10805	CHHI_T2	21	1	-20	0.63	7.6	6.97	-0.73	-0.48	1	0	-1	600	0	-600
4/25/2024 10:51	14404	SSLA_T1	9	10	1	1.03	1.03	0	0	0.01	0	0	0	0	0	0
4/25/2024 10:51	14403	SSLA_T1	4	3	-1	0.53	0.67	0.14	0.64	0.67	0	0	0	0	0	0
4/25/2024 10:51	14402	SSLA_T1	3	6	3	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/25/2024 10:51	14401	SSLA_T1	6	7	1	0.52	0.56	0.04	0	0	0	0	0	0	0	0
4/25/2024 10:52	57401	SPAN_T1	14	10	-4	0.55	0.61	0.06	-1.27	-1.26	1	1	0	600	600	0
4/25/2024 10:52	42201	SHEN_T2	2	3	1	0.4	0.5	0.1	-0.16	-0.14	1	1	0	600	600	0
4/25/2024 10:52	47001	HUGH_T2	1	73	72	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
4/25/2024 10:52	57403	SPAN_T1	45	37	-8	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/25/2024 10:52	47002	HUGH_T2	3	3	0	0.47	0.5	0.03	0	0	0	0	0	0	0	0
4/25/2024 10:53	43201	MVIL_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/25/2024 10:53	13701	SCHN_T2	3	7	4	0.17	0.29	0.12	-0.01	-0.04	1	1	0	600	600	0
4/25/2024 10:53	57003	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 10:53	57004	WHHI_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
4/25/2024 10:53	16101	BING_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
4/25/2024 10:53	13704	SCHN_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:53	45902	AUBU_T1	0	1	1	0	0.9	0.9	-0.43	-0.58	1	1	0	600	600	0
4/25/2024 10:53	16102	BING_T2	5	7	2	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
4/25/2024 10:53	57006	WHHI_T2	1	2	1	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
4/25/2024 10:53	43202	MVIL_T2	9	1	-8	0.32	0.6	0.28	-0.59	-0.54	0	0	0	0	0	0
4/25/2024 10:53	16103	BING_T2	1	1	0	1.1	1.2	0.1	-0.17	-0.16	1	1	0	600	600	0
4/25/2024 10:54	67603	WARW_T1	1	2	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:54	57401	SPAN_T1	14	10	-4	0.55	0.61	0.06	-1.26	-1.26	1	1	0	600	600	0
4/25/2024 10:54	57403	SPAN_T1	45	37	-8	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/25/2024 10:54	45902	AUBU_T1	0	1	1	0	0.9	0.9	-0.43	-0.58	1	1	0	600	600	0
4/25/2024 10:54	64101	REFR_T1	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
4/25/2024 10:54	67605	WARW_T1	28	26	-2	0.46	0.55	0.09	-0.85	-0.89	0	0	0	0	0	0
4/25/2024 10:54	67604	WARW_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
4/25/2024 10:55	59101	WALK_T2	0	0	0	0	0	0	1.47	1.33	0	0	0	0	0	0
4/25/2024 10:55	15103	UPHA_T2	5	5	0	0.62	0.74	0.12	0.4	0.38	0	0	0	0	0	0
4/25/2024 10:55	11104	EGYP_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/25/2024 10:55	57401	SPAN_T1	14	10	-4	0.55	0.61	0.06	-1.26	-1.26	1	1	0	600	600	0
4/25/2024 10:55	57403	SPAN_T1	45	37	-8	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/25/2024 10:55	40701	FFLD_T1	83	76	-7	0.63	0.55	-0.08	0	0	0	0	0	0	0	0
4/25/2024 10:55	40702	FFLD_T1	120	56	-64	0.28	0.19	-0.09	-0.56	-0.53	1	1	0	1200	1200	0
4/25/2024 10:55	40703	FFLD_T1	4	4	0	0.63	0.48	-0.15	0	0	0	0	0	0	0	0
4/25/2024 10:55	45902	AUBU_T1	0	1	1	0	0.9	0.9	-0.43	-0.58	1	1	0	600	600	0
4/25/2024 10:55	59102	WALK_T2	8	7	-1	0.54	0.53	-0.01	0	0	0	0	0	0	0	0
4/25/2024 10:55	11102	EGYP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:55	11103	EGYP_T1	4	4	0	0.25	0.43	0.18	0	0	0	0	0	0	0	0
4/25/2024 10:55	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/25/2024 10:56	57401	SPAN_T1	14	10	-4	0.55	0.61	0.06	0	0	0	0	0	0	0	0
4/25/2024 10:56	67604	WARW_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
4/25/2024 10:56	67603	WARW_T1	1	2	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/25/2024 10:56	57403	SPAN_T1	45	37	-8	0.3	0.25	-0.05	-0.06	-0.04	0	0	0	0	0	0
4/25/2024 10:56	67605	WARW_T1	28	26	-2	0.46	0.55	0.09	0	0	0	0	0	0	0	0
4/25/2024 10:58	61304	EARL_T1	0	0	0	0	0	0	-0.77	-0.86	1	1	0	600	600	0
4/25/2024 10:58	46206	DANV_T2	0	0	0	0	0	0	4.98	4.98	2	2	0	2400	2400	0
4/25/2024 10:58	46201	DANV_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:58	46203	DANV_T2	16	29	13	0.48	0.43	-0.05	-1.2	-1.18	0	0	0	0	0	0
4/25/2024 10:59	46201	DANV_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/25/2024 10:59	46203	DANV_T2	16	29	13	0.48	0.43	-0.05	-1.2	-1.18	0	0	0	0	0	0
4/25/2024 11:01	54503	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 11:01	54504	ENOL_T2	2	1	-1	0.5	1.2	0.7	0	0	0	0	0	0	0	0
4/25/2024 11:01	51002	NHAR_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/25/2024 11:01	28403	HART_T2	1	1	0	0.3	0.5	0.2	-0.97	-0.97	1	1	0	900	900	0
4/25/2024 11:01	54501	ENOL_T2	2	3	1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/25/2024 11:01	51003	NHAR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/25/2024 11:01	51004	NHAR_T1	14	15	1	1.06	1.13	0.07	-0.47	-0.44	0	0	0	0	0	0
4/25/2024 11:01	47901	HRDG_T1	0	0	0	0	0	0	2.37	2.22	0	0	0	0	0	0
4/25/2024 11:01	54505	ENOL_T2	3	4	1	0.63	0.48	-0.15	-1.35	-1.37	1	1	0	600	600	0
4/25/2024 11:01	54502	ENOL_T2	4	3	-1	0.38	0.43	0.05	0	0	0	0	0	0	0	0
4/25/2024 11:02	65205	PRIN_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/25/2024 11:02	63601	LETO_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
4/25/2024 11:02	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 11:02	63602	LETO_T1	14	130	116	0.12	0.23	0.11	-0.4	-0.45	0	0	0	0	0	0
4/25/2024 11:02	42002	MNVL_T2	2	2	0	2.5	2.45	-0.05	0	0	0	0	0	0	0	0
4/25/2024 11:02	42001	MNVL_T2	7	10	3	0.73	0.64	-0.09	0	-0.01	0	0	0	0	0	0
4/25/2024 11:03	46501	LOHA_T1	1	1	0	0.1	0.5	0.4	-0.14	-0.17	1	1	0	1200	1200	0
4/25/2024 11:03	12502	MITR_T2	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
4/25/2024 11:03	12501	MITR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 11:03	12505	MITR_T2	2	2	0	0.8	0.75	-0.05	1.26	1.08	0	0	0	0	0	0
4/25/2024 11:03	64201	KINZ_T1	0	0	0	0	0	0	-0.06	-0.08	3	3	0	1500	1500	0
4/25/2024 11:03	46506	LOHA_T1	2	2	0	0.2	0.55	0.35	0	0	0	0	0	0	0	0
4/25/2024 11:03	44201	POIN_T1	1	0	-1	0.1	0	-0.1	-2.07	-1.57	2	2	0	2100	2100	0
4/25/2024 11:03	64202	KINZ_T1	3	3	0	0.67	0.97	0.3	0	0	0	0	0	0	0	0
4/25/2024 11:03	65205	PRIN_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/25/2024 11:03	46504	LOHA_T1	34	39	5	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/25/2024 11:03	64204	KINZ_T1	1	2	1	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/25/2024 11:04	65501	MOJO_T1	1	1	0	0.3	0.3	0	-0.47	-0.46	1	1	0	900	900	0
4/25/2024 11:04	23001	SAJO_T1	1	1	0	0.1	0.1	0	-0.9	-0.93	0	0	0	0	0	0
4/25/2024 11:04	23002	SAJO_T1	1	0	-1	1.9	2.3	0.4	0	0	0	0	0	0	0	0
4/25/2024 11:04	64904	MILL_T1	1	1	0	0.3	0.2	-0.1	0.46	0.41	0	0	0	0	0	0
4/25/2024 11:05	17002	RIRO_T2	5	12	7	0.52	0.46	-0.06	0.6	0.7	0	0	0	0	0	0
4/25/2024 11:06	15204	SFAR_T2	3	3	0	1.6	1.53	-0.07	0	0	0	0	0	0	0	0
4/25/2024 11:06	15203	SFAR_T2	15	5	-10	0.39	0.6	0.21	-1.34	-1.37	0	0	0	0	0	0
4/25/2024 11:07	20401	ASHF_T2	4	1	-3	0.58	0.6	0.02	0	0	0	0	0	0	0	0
4/25/2024 11:07	20402	ASHF_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/25/2024 11:07	20403	ASHF_T2	14	17	3	0.49	0.5	0.01	0.13	0.01	0	0	0	0	0	0
4/25/2024 11:07	45902	AUBU_T1	1	1	0	0.6	1.4	0.8	-0.43	-0.58	1	1	0	600	600	0
4/25/2024 11:08	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 11:08	29402	BELT_T1	1	3	2	6.6	2.5	-4.1	0	0	0	0	0	0	0	0
4/25/2024 11:08	15204	SFAR_T2	3	3	0	1.6	1.53	-0.07	0	0	0	0	0	0	0	0
4/25/2024 11:08	43304	WATS_T2	0	0	0	0	0	0	-0.51	-0.56	0	0	0	0	0	0
4/25/2024 11:08	15203	SFAR_T2	15	5	-10	0.39	0.6	0.21	-1.34	-1.37	0	0	0	0	0	0
4/25/2024 11:08	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 11:09	64101	REFR_T1	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
4/25/2024 11:09	45902	AUBU_T1	1	1	0	0.6	1.4	0.8	-0.58	-0.52	1	1	0	600	600	0
4/25/2024 11:09	61102	BERK_T5	0	0	0	0	0	0	1.31	1.28	1	1	0	300	300	0
4/25/2024 11:09	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 11:09	61101	BERK_T5	1	2	1	0.2	0.3	0.1	-0.86	-0.86	0	0	0	0	0	0
4/25/2024 11:10	67703	WERN_T2	3	6	3	0.7	0.52	-0.18	-0.33	-0.3	1	1	0	900	900	0
4/25/2024 11:10	42701	AUGU_T1	1	4	3	1	0.58	-0.42	0	0	4	4	0	3600	3600	0
4/25/2024 11:10	67701	WERN_T2	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/25/2024 11:10	20402	ASHF_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/25/2024 11:10	67605	WARW_T1	25	33	8	0.54	0.68	0.14	-0.89	-0.89	0	0	0	0	0	0
4/25/2024 11:10	67605	WARW_T1	25	33	8	0.54	0.68	0.14	-0.89	-0.89	0	0	0	0	0	0
4/25/2024 11:10	67605	WARW_T1	25	33	8	0.54	0.68	0.14	-0.89	-0.89	0	0	0	0	0	0
4/25/2024 11:10	67605	WARW_T1	25	33	8	0.54	0.68	0.14	-0.89	-0.89	0	0	0	0	0	0
4/25/2024 11:10	67702	WERN_T2	4	4	0	0.45	0.48	0.03	-0.18	-0.18	0	0	0	0	0	0
4/25/2024 11:10	29402	BELT_T1	1	3	2	6.6	2.5	-4.1	0	0	0	0	0	0	0	0
4/25/2024 11:10	45902	AUBU_T1	1	1	0	0.6	1.4	0.8	-0.58	-0.52	1	1	0	600	600	0
4/25/2024 11:10	67603	WARW_T1	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/25/2024 11:10	20403	ASHF_T2	14	17	3	0.49	0.5	0.01	0	0	0	0	0	0	0	0
4/25/2024 11:10	20401	ASHF_T2	4	1	-3	0.58	0.6	0.02	-0.37	-0.29	0	0	0	0	0	0
4/25/2024 11:11	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 11:11	43301	WATS_T2	0	0	0	0	0	0	-0.77	-0.77	1	1	0	900	900	0
4/25/2024 11:12	29402	BELT_T1	1	3	2	6.6	2.5	-4.1	0	0	0	0	0	0	0	0
4/25/2024 11:12	67702	WERN_T2	4	4	0	0.45	0.48	0.03	-0.06	-0.06	0	0	0	0	0	0
4/25/2024 11:12	67703	WERN_T2	3	6	3	0.7	0.52	-0.18	0	0	0	0	0	0	0	0
4/25/2024 11:12	67701	WERN_T2	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/25/2024 11:14	64904	MILL_T1	1	1	0	0.3	0.2	-0.1	0.41	0.4	0	0	0	0	0	0
4/25/2024 11:14	11205	ELHE_T1	0	1	1	0	0	0	-0.87	-0.82	1	1	0	1200	1200	0
4/25/2024 11:14	59301	MCAL_T1	1	4	3	0.3	0.45	0.15	-1.57	-1.51	1	1	0	600	600	0
4/25/2024 11:14	59302	MCAL_T1	3	4	1	0.37	0.58	0.21	0	0	0	0	0	0	0	0
4/25/2024 11:14	45902	AUBU_T1	1	1	0	0.6	1.4	0.8	-0.58	-0.52	1	1	0	600	600	0
4/25/2024 11:14	25402	LAHA_T2	2	2	0	0.5	0.55	0.05	-0.27	-0.29	0	0	0	0	0	0
4/25/2024 11:15	45902	AUBU_T1	1	2	1	0.9	0.8	-0.1	-0.58	-0.52	1	1	0	600	600	0
4/25/2024 11:16	59301	MCAL_T1	2	6	4	0.5	0.42	-0.08	0	0	0	0	0	0	0	0
4/25/2024 11:16	59302	MCAL_T1	4	4	0	0.53	0.65	0.12	-0.23	-0.28	1	1	0	600	600	0
4/25/2024 11:16	26401	INOR_T1	2	2	0	3.8	4.65	0.85	1	0.91	0	0	0	0	0	0
4/25/2024 11:16	26402	INOR_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
4/25/2024 11:17	20401	ASHF_T2	1	2	1	1.2	0	-1.2	-0.37	-0.29	0	0	0	0	0	0
4/25/2024 11:17	20403	ASHF_T2	10	17	7	0.49	0.54	0.05	0	0	0	0	0	0	0	0
4/25/2024 11:17	20402	ASHF_T2	1	2	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
4/25/2024 11:17	13503	MCMI_T2	4	9	5	0.53	0.49	-0.04	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 11:18	13503	MCMI_T2	4	9	5	0.53	0.49	-0.04	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 11:20	55002	NEWP_T1	10	13	3	0.91	0.95	0.04	-0.21	-0.22	0	0	0	0	0	0
4/25/2024 11:20	14603	SWHI_T1	6	5	-1	0.78	0.6	-0.18	0	0	0	0	0	0	0	0
4/25/2024 11:20	56501	ROCK_T2	4	6	2	0.65	0.57	-0.08	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 11:20	14601	SWHI_T1	1	1	0	0.3	0.2	-0.1	-0.4	-0.4	0	0	0	0	0	0
4/25/2024 11:20	55001	NEWP_T1	1	8	7	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/25/2024 11:20	10801	CHHI_T1	8	9	1	1.1	1.06	-0.04	-0.96	-0.94	1	1	0	900	900	0
4/25/2024 11:20	14602	SWHI_T1	2	3	1	0.45	0.53	0.08	0	0	0	0	0	0	0	0
4/25/2024 11:20	56504	ROCK_T2	6	6	0	0.97	0.83	-0.14	0	0	0	0	0	0	0	0
4/25/2024 11:20	56503	ROCK_T2	3	3	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/25/2024 11:21	67402	WAKE_T2	1	3	2	0.2	0.33	0.13	0.39	0.39	1	1	0	600	600	0
4/25/2024 11:21	67401	WAKE_T2	5	10	5	0.44	0.58	0.14	0	0	0	0	0	0	0	0
4/25/2024 11:21	66703	STRA_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
4/25/2024 11:21	14602	SWHI_T1	2	3	1	0.45	0.53	0.08	0	0	0	0	0	0	0	0
4/25/2024 11:21	14603	SWHI_T1	6	5	-1	0.78	0.6	-0.18	-1.11	-1.1	1	1	0	600	600	0
4/25/2024 11:21	66701	STRA_T1	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/25/2024 11:21	66203	SISP_T2	1	1	0	0.3	0.8	0.5	-0.6	-0.59	1	1	0	1200	1200	0
4/25/2024 11:21	14601	SWHI_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/25/2024 11:21	66702	STRA_T1	0	1	1	0	0.3	0.3	-0.54	-0.54	2	2	0	1500	1500	0
4/25/2024 11:21	65602	QVIL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/25/2024 11:21	65603	QVIL_T2	1	0	-1	0.2	0	-0.2	-0.31	-0.28	0	0	0	0	0	0
4/25/2024 11:21	65601	QVIL_T2	5	7	2	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
4/25/2024 11:22	14602	SWHI_T1	2	3	1	0.45	0.53	0.08	0	0	0	0	0	0	0	0
4/25/2024 11:22	14601	SWHI_T1	1	1	0	0.3	0.2	-0.1	-0.4	-0.4	0	0	0	0	0	0
4/25/2024 11:22	56501	ROCK_T2	4	6	2	0.65	0.57	-0.08	-0.02	-0.02	0	0	0	0	0	0
4/25/2024 11:22	13704	SCHN_T2	1	1	0	0.8	0.8	0	-0.33	-0.29	0	0	0	0	0	0
4/25/2024 11:22	56504	ROCK_T2	6	6	0	0.97	0.83	-0.14	0	0	0	0	0	0	0	0
4/25/2024 11:22	14603	SWHI_T1	6	5	-1	0.78	0.6	-0.18	0	0	0	0	0	0	0	0
4/25/2024 11:22	13701	SCHN_T2	4	8	4	0.23	0.4	0.17	0	0	0	0	0	0	0	0
4/25/2024 11:22	58401	MORO_T1	1	0	-1	0.2	0	-0.2	-1.09	-1.1	1	1	0	600	600	0
4/25/2024 11:22	58402	MORO_T1	0	0	0	0	0	0	-0.18	-0.19	2	2	0	1500	1500	0
4/25/2024 11:22	56503	ROCK_T2	3	3	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/25/2024 11:23	11104	EGYP_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/25/2024 11:23	11103	EGYP_T1	1	5	4	0.2	0.48	0.28	0	0	0	0	0	0	0	0
4/25/2024 11:23	14602	SWHI_T1	2	3	1	0.45	0.53	0.08	0	0	0	0	0	0	0	0
4/25/2024 11:23	11102	EGYP_T1	1	4	3	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
4/25/2024 11:23	14601	SWHI_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/25/2024 11:23	14603	SWHI_T1	6	5	-1	0.78	0.6	-0.18	-1.11	-1.1	1	1	0	600	600	0
4/25/2024 11:23	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/25/2024 11:24	43201	MVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/25/2024 11:24	44301	BEAV_T2	0	0	0	0	0	0	1	1.1	1	1	0	600	600	0
4/25/2024 11:24	47001	HUGH_T2	11	351	340	0.75	1.13	0.38	0	0	0	0	0	0	0	0
4/25/2024 11:24	61304	EARL_T1	0	0	0	0	0	0	-0.8	-0.83	1	1	0	600	600	0
4/25/2024 11:24	56504	ROCK_T2	6	6	0	0.97	0.83	-0.14	0	0	0	0	0	0	0	0
4/25/2024 11:24	56501	ROCK_T2	4	6	2	0.65	0.57	-0.08	0	0	0	0	0	0	0	0
4/25/2024 11:24	56503	ROCK_T2	3	3	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/25/2024 11:24	43202	MVIL_T2	0	51	51	0	0.21	0.21	-0.83	-0.79	0	0	0	0	0	0
4/25/2024 11:25	45902	AUBU_T1	1	2	1	0.9	0.8	-0.1	-0.52	-0.52	1	1	0	600	600	0
4/25/2024 11:25	41504	FAIR_T2	0	0	0	0	0	0	-0.97	-0.95	0	0	0	0	0	0
4/25/2024 11:26	11104	EGYP_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/25/2024 11:26	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/25/2024 11:26	66703	STRA_T1	1	2	1	0.15	0.25	0.15	-0.1	-0.15	0	0	0	0	0	0
4/25/2024 11:26	61701	ELIZ_T1	2	3	1	3.15	3.4	0.25	0	0	0	0	0	0	0	0
4/25/2024 11:26	13704	SCHN_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/25/2024 11:26	66702	STRA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 11:26	45902	AUBU_T1	1	2	1	0.9	0.8	-0.1	-0.52	-0.52	1	1	0	600	600	0
4/25/2024 11:26	11102	EGYP_T1	1	4	3	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
4/25/2024 11:26	61703	ELIZ_T1	4	1	-3	0.25	0.4	0.15	-2.46	-2.58	2	2	0	2100	2100	0
4/25/2024 11:26	66701	STRA_T1	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/25/2024 11:26	11103	EGYP_T1	1	5	4	0.2	0.48	0.28	0	0	0	0	0	0	0	0
4/25/2024 11:26	13701	SCHN_T2	4	8	4	0.23	0.4	0.17	-0.03	-0.03	1	1	0	600	600	0
4/25/2024 11:27	47001	HUGH_T2	11	351	340	0.75	1.13	0.38	0	0	0	0	0	0	0	0
4/25/2024 11:27	61703	ELIZ_T1	4	1	-3	0.25	0.4	0.15	-4.93	-5.17	4	4	0	4200	4200	0
4/25/2024 11:27	61701	ELIZ_T1	2	3	1	3.15	3.4	0.25	0	0	0	0	0	0	0	0
4/25/2024 11:28	41204	KENM_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 11:28	41206	KENM_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 11:28	61701	ELIZ_T1	2	3	1	3.15	3.4	0.25	0	0	0	0	0	0	0	0
4/25/2024 11:28	41602	CLEV_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/25/2024 11:28	53902	HALI_T2	2	3	1	2.9	2.2	-0.7	0	0	0	0	0	0	0	0
4/25/2024 11:28	41202	KENM_T2	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/25/2024 11:28	41205	KENM_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
4/25/2024 11:28	53903	HALI_T2	6	10	4	0.78	0.71	-0.07	0	0	0	0	0	0	0	0
4/25/2024 11:28	41601	CLEV_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/25/2024 11:28	61703	ELIZ_T1	4	1	-3	0.25	0.4	0.15	-2.46	-2.58	2	2	0	2100	2100	0
4/25/2024 11:28	53901	HALI_T2	2	3	1	0.6	0.47	-0.13	-0.43	-0.42	0	0	0	0	0	0
4/25/2024 11:29	61302	EARL_T1	0	0	0	0	0	0	0.75	0.74	2	2	0	1800	1800	0
4/25/2024 11:30	14204	EALL_T2	4	1	-3	0.5	0.5	0	-0.43	-0.4	0	0	0	0	0	0
4/25/2024 11:30	61701	ELIZ_T1	2	2	0	3.15	3.4	0.25	0	0	0	0	0	0	0	0
4/25/2024 11:30	40101	HUNT_T2	3	4	1	0.27	0.23	-0.04	-0.12	-0.14	0	0	0	0	0	0
4/25/2024 11:30	24702	FLND_T2	2	3	1	1.4	1.3	-0.1	0.33	0.16	1	1	0	1200	1200	0
4/25/2024 11:30	57304	MOAL_T2	6	23	17	0.22	0.23	0.01	0	0	0	0	0	0	0	0
4/25/2024 11:30	57303	MOAL_T2	1	1	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
4/25/2024 11:30	41601	CLEV_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/25/2024 11:30	57306	MOAL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/25/2024 11:30	41602	CLEV_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/25/2024 11:30	20603	GRWO_T2	0	2	2	0	0.2	0.2	0.36	0.35	0	0	0	0	0	0
4/25/2024 11:30	61703	ELIZ_T1	0	1	1	0	0.4	0.4	-2.46	-2.58	2	2	0	2100	2100	0
4/25/2024 11:30	57301	MOAL_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
4/25/2024 11:31	50505	MECH_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/25/2024 11:31	26402	INOR_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
4/25/2024 11:31	50502	MECH_T1	1	2	1	2	1.25	-0.75	0	0	0	0	0	0	0	0
4/25/2024 11:31	45902	AUBU_T1	1	3	2	1.4	0.83	-0.57	-1.04	-1.04	2	2	0	1200	1200	0
4/25/2024 11:31	41601	CLEV_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/25/2024 11:31	50503	MECH_T1	1	3	2	1.4	0.63	-0.77	0	0	0	0	0	0	0	0
4/25/2024 11:31	50501	MECH_T1	5	5	0	0.98	1.12	0.14	0	0	0	0	0	0	0	0
4/25/2024 11:31	50504	MECH_T1	2	4	2	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/25/2024 11:31	41602	CLEV_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/25/2024 11:31	12803	MICK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 11:31	50506	MECH_T1	4	6	2	0.73	0.68	-0.05	0.07	-0.01	0	0	0	0	0	0
4/25/2024 11:31	12801	MICK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 11:31	26401	INOR_T1	2	5	3	4.5	2.1	-2.4	0.91	0.99	0	0	0	0	0	0
4/25/2024 11:31	12807	MICK_T1	2	3	1	0.75	0.57	-0.18	0.2	0.18	0	0	0	0	0	0
4/25/2024 11:31	64902	MILL_T2	0	0	0	0	0	0	0.18	0.22	0	0	0	0	0	0
4/25/2024 11:32	41601	CLEV_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/25/2024 11:32	41602	CLEV_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/25/2024 11:33	50502	MECH_T1	1	2	1	2	1.25	-0.75	0	0	0	0	0	0	0	0
4/25/2024 11:33	15201	SFAR_T1	0	0	0	0	0	0	0.04	0.05	1	1	0	1200	1200	0
4/25/2024 11:33	48302	ORWI_T2	2	2	0	1.5	1.5	0	0.02	0.03	0	0	0	0	0	0
4/25/2024 11:33	65603	QVIL_T2	0	0	0	0	0	0	-0.28	-0.35	0	0	0	0	0	0
4/25/2024 11:33	50501	MECH_T1	5	5	0	0.98	1.12	0.14	0	0	0	0	0	0	0	0
4/25/2024 11:33	48303	ORWI_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/25/2024 11:33	50505	MECH_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/25/2024 11:33	60504	NMAN_T2	3	3	0	0.73	1.1	0.37	0	0	0	0	0	0	0	0
4/25/2024 11:33	50504	MECH_T1	2	4	2	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/25/2024 11:33	13503	MCMI_T2	7	10	3	0.53	0.51	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 11:33	60502	NMAN_T2	2	1	-1	0.15	0.1	-0.05	-0.31	-0.36	0	0	0	0	0	0
4/25/2024 11:33	65602	QVIL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/25/2024 11:33	65601	QVIL_T2	5	7	2	0.26	0.31	0.05	0	0	0	0	0	0	0	0
4/25/2024 11:33	60501	NMAN_T2	5	7	2	3.5	2.69	-0.81	0	0	0	0	0	0	0	0
4/25/2024 11:33	50503	MECH_T1	1	3	2	1.4	0.63	-0.77	0	0	0	0	0	0	0	0
4/25/2024 11:33	50506	MECH_T1	4	6	2	0.73	0.68	-0.05	0.07	-0.01	0	0	0	0	0	0
4/25/2024 11:34	50503	MECH_T1	1	3	2	1.4	0.63	-0.77	0	0	0	0	0	0	0	0
4/25/2024 11:34	50506	MECH_T1	4	6	2	0.73	0.68	-0.05	0.07	-0.01	0	0	0	0	0	0
4/25/2024 11:34	42903	MIDD_T2	0	2	2	0	0.35	0.35	0.29	0.4	1	1	0	1200	1200	0
4/25/2024 11:34	60502	NMAN_T2	2	1	-1	0.15	0.1	-0.05	-0.31	-0.36	0	0	0	0	0	0
4/25/2024 11:34	50504	MECH_T1	2	4	2	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/25/2024 11:34	60501	NMAN_T2	5	7	2	3.5	2.69	-0.81	0	0	0	0	0	0	0	0
4/25/2024 11:34	60504	NMAN_T2	3	3	0	0.73	1.1	0.37	0	0	0	0	0	0	0	0
4/25/2024 11:34	50505	MECH_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/25/2024 11:34	50502	MECH_T1	1	2	1	2	1.25	-0.75	0	0	0	0	0	0	0	0
4/25/2024 11:34	50501	MECH_T1	5	0	-5	0.98	1.12	0.14	0	0	0	0	0	0	0	0
4/25/2024 11:34	42902	MIDD_T2	8	25	17	0.25	0.44	0.19	0	0	0	0	0	0	0	0
4/25/2024 11:35	16505	STRO_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
4/25/2024 11:36	44601	SALE_T2	0	0	0	0	0	0	1	0.79	2	2	0	900	900	0
4/25/2024 11:36	13905	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 11:36	45902	AUBU_T1	1	3	2	1.4	0.83	-0.57	-0.52	-0.52	1	1	0	600	600	0
4/25/2024 11:36	42802	SELI_T1	1	0	-1	0.4	0	-0.4	-0.84	-0.87	1	1	0	900	900	0
4/25/2024 11:37	49803	UNIV_T1	3	6	3	1.1	0.85	-0.25	0	0	0	0	0	0	0	0
4/25/2024 11:37	47401	PENS_T1	1	4	3	0.4	0.93	0.53	1.86	1.52	0	0	0	0	0	0
4/25/2024 11:37	58401	MORO_T1	0	3	3	0	0.1	0.1	-2.21	-2.21	2	2	0	1200	1200	0
4/25/2024 11:37	42802	SELI_T1	1	0	-1	0.4	0	-0.4	-0.84	-0.87	1	1	0	900	900	0
4/25/2024 11:37	49804	UNIV_T1	1	3	2	0.4	0.4	0	0.84	0.76	0	0	0	0	0	0
4/25/2024 11:37	47402	PENS_T1	2	2	0	0.5	0.75	0.25	0	0	0	0	0	0	0	0
4/25/2024 11:37	47403	PENS_T1	1	4	3	1.7	0.63	-1.07	0	0	0	0	0	0	0	0
4/25/2024 11:38	20403	ASHF_T2	14	16	2	0.49	0.55	0.06	1.17	1.15	0	0	0	0	0	0
4/25/2024 11:38	20402	ASHF_T2	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
4/25/2024 11:38	20401	ASHF_T2	1	2	1	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
4/25/2024 11:39	49803	UNIV_T1	3	6	3	1.1	0.85	-0.25	-1.08	-0.99	0	0	0	0	0	0
4/25/2024 11:39	60801	BUCK_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 11:39	49804	UNIV_T1	1	3	2	0.4	0.4	0	0	0	0	0	0	0	0	0
4/25/2024 11:39	60803	BUCK_T1	0	0	0	0	0	0	-0.56	-0.56	1	1	0	600	600	0
4/25/2024 11:40	60803	BUCK_T1	0	0	0	0	0	0	-0.56	-0.56	1	1	0	600	600	0
4/25/2024 11:40	60801	BUCK_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 11:40	41502	FAIR_T2	0	0	0	0	0	0	-0.66	-0.69	0	0	0	0	0	0
4/25/2024 11:41	64101	REFR_T1	0	0	0	0	0	0	-0.71	-0.75	0	0	0	0	0	0
4/25/2024 11:41	16102	BING_T2	7	8	1	0.53	0.53	0	0.04	0.12	0	0	0	0	0	0
4/25/2024 11:41	43304	WATS_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
4/25/2024 11:41	16103	BING_T2	1	2	1	1	0.95	-0.05	0	0	0	0	0	0	0	0
4/25/2024 11:41	49804	UNIV_T1	1	3	2	0.4	0	0	0	0	0	0	0	0	0	0
4/25/2024 11:41	15701	TANN_T1	3	5	2	2.03	1.34	-0.69	0	0	0	0	0	0	0	0
4/25/2024 11:41	49803	UNIV_T1	3	6	3	1.1	0.85	-0.25	-1.08	-0.99	0	0	0	0	0	0
4/25/2024 11:41	45902	AUBU_T1	1	3	2	1.4	0.83	-0.57	-1.04	-0.94	2	2	0	1200	1200	0
4/25/2024 11:41	16101	BING_T2	2	2	0	0.25	0.6	0.35	0	0	0	0	0	0	0	0
4/25/2024 11:41	15704	TANN_T1	5	8	3	0.52	0.45	-0.07	-1.24	-1.23	0	0	0	0	0	0
4/25/2024 11:41	45901	AUBU_T1	0	0	0	0	0	0	1.73	1.71	0	0	0	0	0	0
4/25/2024 11:42	60801	BUCK_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 11:42	41802	GOCI_T2	10	19	9	0.11	0.22	0.11	0	0	0	0	0	0	0	0
4/25/2024 11:42	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 11:42	41801	GOCI_T2	240	338	98	0.64	1.09	0.45	0	0	0	0	0	0	0	0
4/25/2024 11:42	41504	FAIR_T2	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
4/25/2024 11:42	60803	BUCK_T1	0	0	0	0	0	0	-0.56	-0.56	1	1	0	600	600	0
4/25/2024 11:44	54501	ENOL_T2	2	6	4	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/25/2024 11:44	40101	HUNT_T2	3	4	1	0.27	0.23	-0.04	-0.14	-0.23	0	0	0	0	0	0
4/25/2024 11:44	41602	CLEV_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/25/2024 11:44	41802	GOCI_T2	10	19	9	0.11	0.22	0.11	0	0	0	0	0	0	0	0
4/25/2024 11:44	54505	ENOL_T2	4	4	0	0.48	0.58	0.1	-1.36	-1.37	1	1	0	600	600	0
4/25/2024 11:44	54502	ENOL_T2	3	14	11	0.43	0.19	-0.24	0	0	0	0	0	0	0	0
4/25/2024 11:44	54503	ENOL_T2	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
4/25/2024 11:44	54504	ENOL_T2	1	2	1	1.2	0.25	-0.95	0	0	0	0	0	0	0	0
4/25/2024 11:44	41601	CLEV_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/25/2024 11:44	41801	GOCI_T2	240	338	98	0.64	1.09	0.45	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/25/2024 11:45	54502	ENOL_T2	11	10	-1	0.18	0.26	0.08	0	0	0	0	0	0	0	0
4/25/2024 11:45	54503	ENOL_T2	2	5	3	0.25	0.26	0.01	0	0	0	0	0	0	0	0
4/25/2024 11:45	64201	KINZ_T1	1	1	0	0.4	0.1	-0.3	-0.29	0	3	3	0	1500	1500	0
4/25/2024 11:45	41801	GOCI_T2	331	343	12	0.94	1.17	0.23	0	0	0	0	0	0	0	0
4/25/2024 11:45	54505	ENOL_T2	4	4	0	0.55	0.73	0.18	-1.36	-1.37	1	1	0	600	600	0
4/25/2024 11:45	64204	KINZ_T1	2	2	0	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
4/25/2024 11:45	41802	GOCI_T2	17	20	3	0.19	0.22	0.03	0	0	0	0	0	0	0	0
4/25/2024 11:45	64202	KINZ_T1	4	3	-1	0.68	0.5	-0.18	0	0	0	0	0	0	0	0
4/25/2024 11:45	54504	ENOL_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
4/25/2024 11:45	54501	ENOL_T2	5	5	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/25/2024 11:46	41002	LAUR_T2	1	2	1	2	1.1	-0.9	0.01	0.03	0	0	0	0	0	0
4/25/2024 11:46	64202	KINZ_T1	4	3	-1	0.68	0.5	-0.18	0	0	0	0	0	0	0	0
4/25/2024 11:46	41001	LAUR_T2	7	7	0	0.61	0.73	0.12	0	0	0	0	0	0	0	0
4/25/2024 11:46	64204	KINZ_T1	2	2	0	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
4/25/2024 11:46	40101	HUNT_T2	4	1	-3	0.3	0	-0.3	-0.29	-0.46	0	0	0	0	0	0
4/25/2024 11:46	16402	MOPO_T1	1	5	4	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
4/25/2024 11:46	16401	MOPO_T1	2	2	0	0.3	0.7	0.4	0.2	0.21	0	0	0	0	0	0
4/25/2024 11:46	59002	MIFF_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 11:46	59003	MIFF_T1	0	1	1	0	0.4	0.4	-0.17	-0.21	0	0	0	0	0	0
4/25/2024 11:46	45902	AUBU_T1	2	4	2	0.8	0.78	-0.02	-0.52	-0.47	1	1	0	600	600	0
4/25/2024 11:46	64201	KINZ_T1	1	1	0	0.4	0.1	-0.3	-0.29	0	3	3	0	1500	1500	0
4/25/2024 11:47	50503	MECH_T1	2	3	1	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
4/25/2024 11:47	41204	KENM_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/25/2024 11:47	41206	KENM_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/25/2024 11:47	50502	MECH_T1	2	2	0	1.2	1.25	0.05	0	0	0	0	0	0	0	0
4/25/2024 11:47	50505	MECH_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/25/2024 11:47	41601	CLEV_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/25/2024 11:47	50501	MECH_T1	5	5	0	1.12	0.92	-0.2	0	0	0	0	0	0	0	0
4/25/2024 11:47	41202	KENM_T2	2	2	0	0.45	0.5	0.05	0.53	0.52	0	0	0	0	0	0
4/25/2024 11:47	50504	MECH_T1	4	4	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
4/25/2024 11:47	41602	CLEV_T1	1	1	0	0.7	1.4	0.7	0	0	0	0	0	0	0	0
4/25/2024 11:47	50506	MECH_T1	6	8	2	0.68	0.56	-0.12	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 11:47	45702	LIND_T2	3	3	0	1	1.3	0.3	-0.57	-0.55	0	0	0	0	0	0
4/25/2024 11:48	64802	MONE_T2	95	128	33	0.19	0.18	-0.01	0.11	0.14	0	0	0	0	0	0
4/25/2024 11:48	47403	PENS_T1	1	7	6	1.4	0.53	-0.87	0	0	0	0	0	0	0	0
4/25/2024 11:48	47402	PENS_T1	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
4/25/2024 11:48	64303	LINC_T1	0	1	1	0	0.5	0.5	-0.28	-0.26	0	0	0	0	0	0
4/25/2024 11:48	64801	MONE_T2	3	3	0	0.33	0.6	0.27	0	0	0	0	0	0	0	0
4/25/2024 11:48	47401	PENS_T1	3	4	1	0.83	0.85	0.02	0.76	0.92	0	0	0	0	0	0
4/25/2024 11:49	54504	ENOL_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
4/25/2024 11:49	13503	MCMI_T2	7	12	5	0.57	0.49	-0.08	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 11:49	54501	ENOL_T2	5	5	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/25/2024 11:49	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
4/25/2024 11:49	45701	LIND_T2	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
4/25/2024 11:49	54502	ENOL_T2	11	10	-1	0.18	0.26	0.08	0	0	0	0	0	0	0	0
4/25/2024 11:49	46102	MACI_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
4/25/2024 11:49	46504	LOHA_T1	80	55	-25	0.48	0.34	-0.14	0	0	0	0	0	0	0	0
4/25/2024 11:49	46506	LOHA_T1	3	3	0	0.37	0.43	0.06	0	0	0	0	0	0	0	0
4/25/2024 11:49	54505	ENOL_T2	4	4	0	0.55	0.73	0.18	-1.36	-1.37	1	1	0	600	600	0
4/25/2024 11:49	45702	LIND_T2	3	3	0	1	1.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 11:49	46501	LOHA_T1	2	3	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/25/2024 11:49	54503	ENOL_T2	2	5	3	0.25	0.26	0.01	0	0	0	0	0	0	0	0
4/25/2024 11:50	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 11:50	40302	TAMA_T3	10	10	0	0.41	0.43	0.02	0	0	0	0	0	0	0	0
4/25/2024 11:50	40303	TAMA_T3	1	2	1	0.2	0.4	0.2	2.31	2.24	0	0	0	0	0	0
4/25/2024 11:51	47401	PENS_T1	3	4	1	0.83	0.85	0.02	0.76	0.92	0	0	0	0	0	0
4/25/2024 11:51	24204	PROV_T3	2	2	0	2.75	2.75	0	0	0	0	0	0	0	0	0
4/25/2024 11:51	27503	WEIS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 11:51	47402	PENS_T1	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
4/25/2024 11:51	24205	PROV_T3	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/25/2024 11:51	47403	PENS_T1	1	7	6	1.4	0.53	-0.87	0	0	0	0	0	0	0	0
4/25/2024 11:51	54602	SUMM_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/25/2024 11:51	27502	WEIS_T2	0	2	2	0	8.2	8.2	0.02	0.04	0	0	0	0	0	0
4/25/2024 11:51	54601	SUMM_T2	11	12	1	0.47	0.55	0.08	-1.93	-1.92	2	2	0	2100	2100	0
4/25/2024 11:51	24201	PROV_T3	3	3	0	2.37	2.33	-0.04	-0.2	-0.19	0	0	0	0	0	0
4/25/2024 11:52	14602	SWHI_T1	3	2	-1	0.53	0.75	0.22	0	0	0	0	0	0	0	0
4/25/2024 11:52	25502	MADI_T1	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
4/25/2024 11:52	67605	WARW_T1	42	81	39	0.61	0.62	0.01	-0.9	-0.88	0	0	0	0	0	0
4/25/2024 11:52	13901	SEID_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
4/25/2024 11:52	45901	AUBU_T1	0	0	0	0	0	0	1.73	1.71	0	0	0	0	0	0
4/25/2024 11:52	14603	SWHI_T1	5	4	-1	0.52	0.85	0.33	0	0	0	0	0	0	0	0
4/25/2024 11:52	67603	WARW_T1	3	5	2	0.4	0.56	0.16	0	0	0	0	0	0	0	0
4/25/2024 11:52	14601	SWHI_T1	1	1	0	0.2	0.1	-0.1	-0.42	-0.37	0	0	0	0	0	0
4/25/2024 11:52	25503	MADI_T1	2	4	2	0.65	0.55	-0.1	-1.07	-1.07	0	0	0	0	0	0
4/25/2024 11:52	12501	MITR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/25/2024 11:52	12505	MITR_T2	1	3	2	0.3	0.37	0.07	1.45	1.23	0	0	0	0	0	0
4/25/2024 11:52	12502	MITR_T2	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
4/25/2024 11:52	25501	MADI_T1	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
4/25/2024 11:52	13905	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 11:52	45902	AUBU_T1	2	4	2	0.8	0.78	-0.02	-1.04	-0.94	2	2	0	1200	1200	0
4/25/2024 11:53	57001	WHHI_T2	0	0	0	0	0	0	-0.07	-0.14	1	1	0	900	900	0
4/25/2024 11:53	57006	WHHI_T2	3	3	0	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
4/25/2024 11:53	15001	BLMO_T1	6	8	2	0.47	0.54	0.07	0	0	0	0	0	0	0	0
4/25/2024 11:53	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 11:54	42701	AUGU_T1	4	14	10	0.7	0.49	-0.21	0	0	2	2	0	1800	1800	0
4/25/2024 11:54	60801	BUCK_T1	2	4	2	0.15	0.3	0.15	0	0	0	0	0	0	0	0
4/25/2024 11:54	60803	BUCK_T1	0	1	1	0	0.1	0.1	-0.56	-0.57	1	1	0	600	600	0
4/25/2024 11:55	67402	WAKE_T2	3	2	-1	0.33	0.35	0.02	0	0	0	0	0	0	0	0
4/25/2024 11:55	67503	WEWI_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
4/25/2024 11:55	67401	WAKE_T2	10	12	2	0.55	0.61	0.06	-1.18	-1.2	0	0	0	0	0	0
4/25/2024 11:55	67502	WEWI_T2	10	10	0	0.46	0.53	0.07	0	0	0	0	0	0	0	0
4/25/2024 11:55	51306	WIND_T2	3	3	0	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
4/25/2024 11:55	51302	WIND_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/25/2024 11:55	51304	WIND_T2	3	3	0	0.63	0.57	-0.06	0	0	0	0	0	0	0	0
4/25/2024 11:55	42701	AUGU_T1	4	14	10	0.7	0.49	-0.21	0	0	2	2	0	1800	1800	0
4/25/2024 11:57	62605	ENGL_T1	12	6	-6	0.24	0.28	0.04	0	0	0	0	0	0	0	0
4/25/2024 11:57	45902	AUBU_T1	2	4	2	0.8	0.78	-0.02	-0.94	-0.98	2	2	0	1200	1200	0
4/25/2024 11:57	67603	WARW_T1	3	5	2	0.4	0.56	0.16	0	0	0	0	0	0	0	0
4/25/2024 11:57	62602	ENGL_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/25/2024 11:57	67605	WARW_T1	42	81	39	0.61	0.62	0.01	-0.88	-1.15	0	0	0	0	0	0
4/25/2024 11:57	62607	ENGL_T1	7	3	-4	0.24	0.33	0.09	-1.2	-1.17	1	1	0	300	300	0
4/25/2024 11:58	53901	HAIL_T2	2	3	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/25/2024 11:58	12003	HATF_T1	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
4/25/2024 11:58	62607	ENGL_T1	7	3	-4	0.24	0.33	0.09	-1.2	-1.17	1	1	0	300	300	0
4/25/2024 11:58	12006	HATF_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/25/2024 11:58	26402	INOR_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
4/25/2024 11:58	53902	HAIL_T2	2	3	1	3.05	2.13	-0.92	-0.28	-0.3	0	0	0	0	0	0
4/25/2024 11:58	26401	INOR_T1	2	6	4	4.65	2.1	-2.55	0.89	0.46	0	0	0	0	0	0
4/25/2024 11:58	62602	ENGL_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/25/2024 11:58	62605	ENGL_T1	12	6	-6	0.24	0.28	0.04	0	0	0	0	0	0	0	0
4/25/2024 11:58	12001	HATF_T1	0	0	0	0	0	0	-0.5	-0.42	2	2	0	1800	1800	0
4/25/2024 11:58	53903	HAIL_T2	10	10	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
4/25/2024 11:59	12001	HATF_T1	0	0	0	0	0	0	-0.5	-0.42	2	2	0	1800	1800	0
4/25/2024 11:59	12003	HATF_T1	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
4/25/2024 11:59	12006	HATF_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/25/2024 12:00	45701	LIND_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
4/25/2024 12:00	62602	ENGL_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/25/2024 12:00	62605	ENGL_T1	6	5	-1	0.28	0.22	-0.06	0	0	0	0	0	0	0	0
4/25/2024 12:00	62607	ENGL_T1	3	3	0	0.33	0.1	-0.23	-1.2	-1.17	1	1	0	300	300	0
4/25/2024 12:00	45702	LIND_T2	3	3	0	1.03	1.3	0.27	0	0	0	0	0	0	0	0
4/25/2024 12:00	47103	MARL_T2	3	4	1	0.33	0.23	-0.1	-0.61	-0.63	0	0	0	0	0	0
4/25/2024 12:01	64503	LAVI_T1	0	1	1	0	0.2	0.2	0.1	0.08	1	1	0	1200	1200	0
4/25/2024 12:01	64501	LAVI_T1	2	2	0	0.3	0.55	0.25	0	0	0	0	0	0	0	0
4/25/2024 12:02	63804	HEMP_T1	1	2	1	6.4	3.15	-3.25	0	0	0	0	0	0	0	0
4/25/2024 12:02	24104	EHAZ_T1	3	2	-1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
4/25/2024 12:02	67603	WARW_T1	3	5	2	0.33	0.64	0.31	0	0	0	0	0	0	0	0
4/25/2024 12:02	47401	PENS_T1	4	2	-2	0.85	0.9	0.05	0.92	1.01	0	0	0	0	0	0
4/25/2024 12:02	63801	HEMP_T1	4	23	19	0.23	0.42	0.19	0.3	0.14	0	0	0	0	0	0
4/25/2024 12:02	47403	PENS_T1	4	5	1	0.63	0.68	0.05	0	0	0	0	0	0	0	0
4/25/2024 12:02	63803	HEMP_T1	3	19	16	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
4/25/2024 12:02	24101	EHAZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 12:02	67605	WARW_T1	48	83	35	0.6	0.62	0.02	-0.88	-1.15	0	0	0	0	0	0
4/25/2024 12:02	64501	LAVI_T1	2	2	0	0.3	0.55	0.25	0	0	0	0	0	0	0	0
4/25/2024 12:02	51402	LYKE_T1	0	0	0	0	0	0	-1.73	-1.59	2	2	0	1200	1200	0
4/25/2024 12:02	64503	LAVI_T1	0	1	1	0	0.2	0.2	0.1	0.08	1	1	0	1200	1200	0
4/25/2024 12:02	47402	PENS_T1	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/25/2024 12:02	24105	EHAZ_T1	4	4	0	6.38	6.88	0.5	0	0	0	0	0	0	0	0
4/25/2024 12:02	24102	EHAZ_T1	2	2	0	0.15	0	-0.15	0.24	0.3	0	0	0	0	0	0
4/25/2024 12:02	63802	HEMP_T1	0	6	6	0	0.25	0.25	0	0	0	0	0	0	0	0
4/25/2024 12:03	65503	MOJO_T2	7	6	-1	0.84	0.5	-0.34	-0.32	-0.42	0	0	0	0	0	0
4/25/2024 12:03	47101	MARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 12:03	47103	MARL_T2	3	4	1	0.33	0.23	-0.1	-0.61	-0.63	0	0	0	0	0	0
4/25/2024 12:04	64503	LAVI_T1	0	1	1	0	0.2	0.2	0.1	0.08	1	1	0	1200	1200	0
4/25/2024 12:04	64501	LAVI_T1	2	2	0	0.3	0.55	0.25	0	0	0	0	0	0	0	0
4/25/2024 12:04	51401	LYKE_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
4/25/2024 12:05	66501	SMAN_T2	2	2	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
4/25/2024 12:05	66504	SMAN_T2	5	3	-2	0.56	0.63	0.07	-0.51	-0.61	0	0	0	0	0	0
4/25/2024 12:05	66503	SMAN_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/25/2024 12:05	66502	SMAN_T2	14	12	-2	0.36	0.28	-0.08	0.45	0.4	0	0	0	0	0	0
4/25/2024 12:05	42201	SHEN_T2	2	4	2	1.15	0.8	-0.35	-0.2	-0.18	1	1	0	600	600	0
4/25/2024 12:05	66505	SMAN_T2	7	5	-2	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
4/25/2024 12:06	43801	SWIL_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
4/25/2024 12:06	43802	SWIL_T1	1	1	0	0.8	0.9	0.1	-0.34	-0.33	1	1	0	600	600	0
4/25/2024 12:06	66502	SMAN_T2	14	12	-2	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
4/25/2024 12:06	66505	SMAN_T2	7	5	-2	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
4/25/2024 12:06	66501	SMAN_T2	2	2	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
4/25/2024 12:06	66503	SMAN_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/25/2024 12:06	49804	UNIV_T1	3	4	1	0.4	0.55	0.15	0.69	0.62	0	0	0	0	0	0
4/25/2024 12:06	49803	UNIV_T1	4	4	0	0.73	0.75	0.02	0	0	0	0	0	0	0	0
4/25/2024 12:06	66504	SMAN_T2	5	3	-2	0.56	0.63	0.07	-2.04	-2.45	0	0	0	0	0	0
4/25/2024 12:07	16402	MOPO_T1	4	4	0	0.48	0.67	0.19	-0.07	-0.06	0	0	0	0	0	0
4/25/2024 12:07	45902	AUBU_T1	3	4	1	0.83	0.73	-0.1	-0.47	-0.49	1	1	0	600	600	0
4/25/2024 12:07	47401	PENS_T1	4	2	-2	0.85	0.9	0.05	0.92	1.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/25/2024 12:07	47403	PENS_T1	4	5	1	0.63	0.68	0.05	0	0	0	0	0	0	0	0
4/25/2024 12:07	16401	MOPO_T1	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/25/2024 12:07	66503	SMAN_T2	2	1	-1	0.15	0.2	0.05	0.3	0.3	0	0	0	0	0	0
4/25/2024 12:07	43802	SWIL_T1	1	1	0	0.8	0.9	0.1	-0.34	-0.33	1	1	0	600	600	0
4/25/2024 12:07	66502	SMAN_T2	14	12	-2	0.36	0.28	-0.08	0.45	0.4	0	0	0	0	0	0
4/25/2024 12:07	66501	SMAN_T2	2	2	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
4/25/2024 12:07	47402	PENS_T1	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/25/2024 12:07	66505	SMAN_T2	7	5	-2	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
4/25/2024 12:07	43801	SWIL_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
4/25/2024 12:07	66504	SMAN_T2	5	3	-2	0.56	0.63	0.07	0	0	0	0	0	0	0	0
4/25/2024 12:08	66505	SMAN_T2	7	5	-2	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
4/25/2024 12:08	57403	SPAN_T1	20	23	3	0.25	0.25	0	0	0	0	0	0	0	0	0
4/25/2024 12:08	51304	WIND_T2	3	3	0	0.5	0.33	-0.17	-0.15	-0.16	0	0	0	0	0	0
4/25/2024 12:08	45902	AUBU_T1	3	4	1	0.83	0.73	-0.1	-0.49	-0.53	1	1	0	600	600	0
4/25/2024 12:08	57401	SPAN_T1	7	9	2	0.59	0.71	0.12	-1.17	-1.23	1	1	0	600	600	0
4/25/2024 12:08	66503	SMAN_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/25/2024 12:08	66501	SMAN_T2	2	2	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
4/25/2024 12:08	51306	WIND_T2	3	3	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/25/2024 12:08	51302	WIND_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/25/2024 12:08	66502	SMAN_T2	14	12	-2	0.36	0.28	-0.08	0.4	0.38	0	0	0	0	0	0
4/25/2024 12:08	66504	SMAN_T2	5	3	-2	0.56	0.63	0.07	0	0	0	0	0	0	0	0
4/25/2024 12:09	20401	ASHF_T2	2	1	-1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/25/2024 12:09	20402	ASHF_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/25/2024 12:09	20403	ASHF_T2	14	15	1	0.54	0.65	0.11	1.22	0.1	0	0	0	0	0	0
4/25/2024 12:10	60801	BUCK_T1	1	4	3	0.2	0.35	0.15	-0.19	-0.19	0	0	0	0	0	0
4/25/2024 12:10	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 12:11	67605	WARW_T1	48	83	35	0.6	0.62	0.02	-1.15	-1.15	0	0	0	0	0	0
4/25/2024 12:11	67603	WARW_T1	3	5	2	0.33	0.64	0.31	0	0	0	0	0	0	0	0
4/25/2024 12:11	42401	GIMA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 12:12	67605	WARW_T1	48	83	35	0.6	0.62	0.02	-1.15	-1.15	0	0	0	0	0	0
4/25/2024 12:12	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 12:12	60801	BUCK_T1	1	4	3	0.2	0.35	0.15	-0.19	-0.19	0	0	0	0	0	0
4/25/2024 12:12	45902	AUBU_T1	3	4	1	0.83	0.73	-0.1	-0.49	-0.53	1	1	0	600	600	0
4/25/2024 12:12	67603	WARW_T1	3	5	2	0.33	0.64	0.31	0	0	0	0	0	0	0	0
4/25/2024 12:12	18001	ZION_T1	5	5	0	0.56	0.82	0.26	0	0	0	0	0	0	0	0
4/25/2024 12:13	45902	AUBU_T1	3	4	1	0.83	0.73	-0.1	-0.49	-0.53	1	1	0	600	600	0
4/25/2024 12:13	67603	WARW_T1	3	5	2	0.33	0.64	0.31	0	0	0	0	0	0	0	0
4/25/2024 12:13	67605	WARW_T1	48	83	35	0.6	0.62	0.02	-1.15	-1.15	0	0	0	0	0	0
4/25/2024 12:14	46802	HEPB_T1	3	2	-1	0.57	0.85	0.28	-0.34	-0.34	0	0	0	0	0	0
4/25/2024 12:15	41002	LAUR_T2	2	2	0	1.1	1	-0.1	0.04	0.01	0	0	0	0	0	0
4/25/2024 12:15	23901	EFMO_T2	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/25/2024 12:15	23902	EFMO_T2	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
4/25/2024 12:15	47901	HRDG_T1	0	0	0	0	0	0	2.14	2.26	0	0	0	0	0	0
4/25/2024 12:15	41001	LAUR_T2	6	5	-1	0.83	0.82	-0.01	0	0	0	0	0	0	0	0
4/25/2024 12:16	50506	MECH_T1	8	6	-2	0.56	0.68	0.12	0	0	0	0	0	0	0	0
4/25/2024 12:16	50504	MECH_T1	4	4	0	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
4/25/2024 12:16	50501	MECH_T1	5	5	0	0.9	0.9	0	0	0	0	0	0	0	0	0
4/25/2024 12:16	50503	MECH_T1	3	3	0	0.7	0.67	-0.03	0	0	0	0	0	0	0	0
4/25/2024 12:16	50502	MECH_T1	2	2	0	1.15	1.15	0	-0.11	-0.11	0	0	0	0	0	0
4/25/2024 12:16	50505	MECH_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/25/2024 12:17	60801	BUCK_T1	4	4	0	0.3	0.38	0.08	-0.19	-0.19	0	0	0	0	0	0
4/25/2024 12:17	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 12:17	67603	WARW_T1	4	5	1	0.65	0.52	-0.13	0	0	0	0	0	0	0	0
4/25/2024 12:17	67605	WARW_T1	81	69	-12	0.62	0.63	0.01	-1.15	-1.15	0	0	0	0	0	0
4/25/2024 12:17	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 12:18	54501	ENOL_T2	5	3	-2	0.4	0.57	0.17	0	0	0	0	0	0	0	0
4/25/2024 12:18	25503	MADI_T1	3	3	0	0.6	0.73	0.13	-1.05	-1.06	0	0	0	0	0	0
4/25/2024 12:18	25501	MADI_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
4/25/2024 12:18	54505	ENOL_T2	4	4	0	0.73	0.8	0.07	-1.34	-1.36	1	1	0	600	600	0
4/25/2024 12:18	54503	ENOL_T2	4	4	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/25/2024 12:18	25502	MADI_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/25/2024 12:18	54504	ENOL_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
4/25/2024 12:18	54502	ENOL_T2	8	6	-2	0.25	0.33	0.08	0	0	0	0	0	0	0	0
4/25/2024 12:19	13601	RICH_T2	2	1	-1	0.6	0.3	-0.3	-0.07	-0.08	1	1	0	600	600	0
4/25/2024 12:19	54502	ENOL_T2	8	6	-2	0.25	0.33	0.08	0	0	0	0	0	0	0	0
4/25/2024 12:19	13604	RICH_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 12:19	54505	ENOL_T2	4	4	0	0.73	0.8	0.07	0	0	0	0	0	0	0	0
4/25/2024 12:19	42802	SELI_T1	0	0	0	0	0	0	-0.85	-0.79	1	1	0	900	900	0
4/25/2024 12:19	54501	ENOL_T2	5	3	-2	0.4	0.57	0.17	0	0	0	0	0	0	0	0
4/25/2024 12:19	13606	RICH_T2	2	1	-1	3.75	7.1	3.35	0	0	0	0	0	0	0	0
4/25/2024 12:19	54503	ENOL_T2	4	4	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/25/2024 12:19	54504	ENOL_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
4/25/2024 12:19	54506	ENOL_T2	0	0	0	0	0	0	0.55	0.58	1	1	0	600	600	0
4/25/2024 12:20	66502	SMAN_T2	12	10	-2	0.28	0.33	0.05	0	0	0	0	0	0	0	0
4/25/2024 12:20	66504	SMAN_T2	3	5	2	0.63	0.6	-0.03	-0.61	-0.55	0	0	0	0	0	0
4/25/2024 12:20	66503	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/25/2024 12:20	66505	SMAN_T2	4	2	-2	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/25/2024 12:20	66501	SMAN_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/25/2024 12:20	13502	MCMI_T1	10	12	2	0.37	0.39	0.02	0	0	0	0	0	0	0	0
4/25/2024 12:20	54501	ENOL_T2	5	3	-2	0.4	0.57	0.17	0	0	0	0	0	0	0	0
4/25/2024 12:20	54503	ENOL_T2	4	4	0	0.3	0.4	0.1	-4.14	-4	3	3	0	1800	1800	0
4/25/2024 12:20	54505	ENOL_T2	4	4	0	0.73	0.8	0.07	0	0	0	0	0	0	0	0
4/25/2024 12:20	13503	MCMI_T2	11	14	3	0.43	0.5	0.07	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 12:20	54502	ENOL_T2	8	6	-2	0.25	0.33	0.08	0	0	0	0	0	0	0	0
4/25/2024 12:20	54504	ENOL_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
4/25/2024 12:20	13501	MCMI_T1	1	1	0	0.7	0.6	-0.1	0	0.05	0	0	0	0	0	0
4/25/2024 12:21	56504	ROCK_T2	1	5	4	0.2	0.46	0.26	0	0	0	0	0	0	0	0
4/25/2024 12:21	67401	WAKE_T2	11	7	-4	0.57	0.69	0.12	0	0	0	0	0	0	0	0
4/25/2024 12:21	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 12:21	56501	ROCK_T2	5	6	1	0.6	0.58	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 12:21	43304	WATS_T2	0	0	0	0	0	0	-1.7	-1.66	0	0	0	0	0	0
4/25/2024 12:21	56503	ROCK_T2	4	4	0	0.3	0.38	0.08	0	0	0	0	0	0	0	0
4/25/2024 12:21	67402	WAKE_T2	2	2	0	0.2	0.35	0.15	0.41	0.38	1	1	0	600	600	0
4/25/2024 12:22	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 12:22	57006	WHHI_T2	3	3	0	0.63	1.03	0.4	0	0	0	0	0	0	0	0
4/25/2024 12:22	54601	SUMM_T2	9	10	1	0.56	0.42	-0.14	-1.88	-1.9	2	2	0	2100	2100	0
4/25/2024 12:22	57004	WHHI_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
4/25/2024 12:22	54602	SUMM_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/25/2024 12:23	56504	ROCK_T2	1	5	4	0.2	0.46	0.26	0	0	0	0	0	0	0	0
4/25/2024 12:23	56501	ROCK_T2	5	6	1	0.6	0.58	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 12:23	66505	SMAN_T2	4	2	-2	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/25/2024 12:23	66502	SMAN_T2	12	10	-2	0.28	0.33	0.05	0	0	0	0	0	0	0	0
4/25/2024 12:23	66503	SMAN_T2	1	1	0	0.2	0.2	0	0.3	0.28	0	0	0	0	0	0
4/25/2024 12:23	66501	SMAN_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/25/2024 12:23	56503	ROCK_T2	4	4	0	0.3	0.38	0.08	0	0	0	0	0	0	0	0
4/25/2024 12:23	17901	BART_T1	2	1	-1	0.65	0.9	0.25	0	0	0	0	0	0	0	0
4/25/2024 12:23	45902	AUBU_T1	4	3	-1	0.73	0.5	-0.23	-1.05	-1.01	2	2	0	1200	1200	0
4/25/2024 12:23	17903	BART_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
4/25/2024 12:23	66504	SMAN_T2	3	5	2	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
4/25/2024 12:25	20401	ASHF_T2	1	1	0	1.4	0.4	-1	0	0	0	0	0	0	0	0
4/25/2024 12:25	10903	COOP_T2	1	1	0	1.9	1.8	-0.1	0.09	0.14	1	1	0	600	600	0
4/25/2024 12:25	44301	BEAV_T2	2	3	1	0.1	0.2	0.1	0.31	0.56	1	1	0	600	600	0
4/25/2024 12:25	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 12:25	56503	ROCK_T2	4	4	0	0.3	0.38	0.08	0	0	0	0	0	0	0	0
4/25/2024 12:25	20403	ASHF_T2	14	20	6	0.65	0.76	0.11	0.1	1.33	0	0	0	0	0	0
4/25/2024 12:25	20402	ASHF_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/25/2024 12:25	56504	ROCK_T2	1	5	4	0.2	0.46	0.26	0	0	0	0	0	0	0	0
4/25/2024 12:25	43304	WATS_T2	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
4/25/2024 12:25	56501	ROCK_T2	5	6	1	0.6	0.58	-0.02	0	0	0	0	0	0	0	0
4/25/2024 12:26	23902	EFMO_T2	2	2	0	0.25	0.5	0.25	0.05	0.06	0	0	0	0	0	0
4/25/2024 12:26	23901	EFMO_T2	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/25/2024 12:27	20401	ASHF_T2	1	1	0	1.4	0.4	-1	0	0	0	0	0	0	0	0
4/25/2024 12:27	41801	GOCI_T2	341	330	-11	1.16	1.09	-0.07	0	0	0	0	0	0	0	0
4/25/2024 12:27	41802	GOCI_T2	19	17	-2	0.19	0.17	-0.02	0	0	0	0	0	0	0	0
4/25/2024 12:27	20403	ASHF_T2	14	20	6	0.65	0.76	0.11	0.1	1.33	0	0	0	0	0	0
4/25/2024 12:27	20402	ASHF_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/25/2024 12:28	56504	ROCK_T2	1	5	4	0.2	0.46	0.26	0	0	0	0	0	0	0	0
4/25/2024 12:28	56503	ROCK_T2	4	4	0	0.3	0.38	0.08	0	0	0	0	0	0	0	0
4/25/2024 12:28	60801	BUCK_T1	4	4	0	0.3	0.38	0.08	-0.19	-0.18	0	0	0	0	0	0
4/25/2024 12:28	45902	AUBU_T1	4	3	-1	0.73	0.5	-0.23	-0.53	-0.51	1	1	0	600	600	0
4/25/2024 12:28	56501	ROCK_T2	5	6	1	0.6	0.58	-0.02	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 12:28	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 12:29	45902	AUBU_T1	4	3	-1	0.73	0.5	-0.23	-0.53	-0.51	1	1	0	600	600	0
4/25/2024 12:30	62102	ELAN_T1	0	0	0	0	0	0	0.49	0.55	0	0	0	0	0	0
4/25/2024 12:30	62105	ELAN_T1	2	4	2	0.35	0.53	0.18	0	0	0	0	0	0	0	0
4/25/2024 12:31	53501	EVIL_T2	8	2	-6	0.51	0.55	0.04	0	0	0	0	0	0	0	0
4/25/2024 12:31	53502	EVIL_T2	0	0	0	0	0	0	0.52	0.86	0	0	0	0	0	0
4/25/2024 12:31	62105	ELAN_T1	2	4	2	0.35	0.53	0.18	0.33	0.33	0	0	0	0	0	0
4/25/2024 12:31	45702	LIND_T2	3	3	0	1.23	1.17	-0.06	-0.56	-0.57	0	0	0	0	0	0
4/25/2024 12:32	13503	MCMI_T2	11	13	2	0.42	0.53	0.11	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 12:33	60801	BUCK_T1	4	4	0	0.23	0.35	0.12	-0.19	-0.18	0	0	0	0	0	0
4/25/2024 12:33	41002	LAUR_T2	2	1	-1	1	1.7	0.7	0.01	0.02	0	0	0	0	0	0
4/25/2024 12:33	41001	LAUR_T2	5	6	1	0.82	0.6	-0.22	0	0	0	0	0	0	0	0
4/25/2024 12:34	45702	LIND_T2	3	3	0	1.23	1.17	-0.06	-0.56	-0.57	0	0	0	0	0	0
4/25/2024 12:36	13503	MCMI_T2	11	13	2	0.42	0.53	0.11	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 12:37	45601	WOOL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 12:37	51302	WIND_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/25/2024 12:37	51304	WIND_T2	2	3	1	0.35	0.2	-0.15	-0.16	-0.16	0	0	0	0	0	0
4/25/2024 12:37	51306	WIND_T2	3	3	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
4/25/2024 12:37	45602	WOOL_T1	8	8	0	0.53	0.5	-0.03	0.43	0.43	0	0	0	0	0	0
4/25/2024 12:37	58001	WCAR_T1	11	15	4	0.86	0.75	-0.11	0	0	0	0	0	0	0	0
4/25/2024 12:37	54602	SUMM_T2	2	1	-1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
4/25/2024 12:37	54601	SUMM_T2	9	7	-2	0.46	0.54	0.08	-1.9	-1.87	2	2	0	2100	2100	0
4/25/2024 12:37	58003	WCAR_T1	58	64	6	0.35	0.35	0	0.78	0.76	0	0	0	0	0	0
4/25/2024 12:38	67502	WEWI_T2	8	7	-1	0.45	0.47	0.02	-0.92	-0.88	0	0	0	0	0	0
4/25/2024 12:38	60101	COCA_T1	2	3	1	0.45	0.43	-0.02	0.21	0.29	0	0	0	0	0	0
4/25/2024 12:39	45902	AUBU_T1	3	3	0	0.5	0.47	-0.03	-1.01	-0.93	2	2	0	1200	1200	0
4/25/2024 12:39	45602	WOOL_T1	8	8	0	0.53	0.5	-0.03	0.43	0.44	0	0	0	0	0	0
4/25/2024 12:39	45601	WOOL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 12:39	58003	WCAR_T1	58	64	6	0.35	0.35	0	0.76	0.79	0	0	0	0	0	0
4/25/2024 12:39	58001	WCAR_T1	11	15	4	0.86	0.75	-0.11	0	0	0	0	0	0	0	0
4/25/2024 12:40	60101	COCA_T1	2	3	1	0.45	0.43	-0.02	0.21	0.29	0	0	0	0	0	0
4/25/2024 12:40	58001	WCAR_T1	11	15	4	0.86	0.75	-0.11	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/25/2024 12:40	58003	WCAR_T1	58	64	6	0.35	0.35	0	0.76	0.79	0	0	0	0	0	0
4/25/2024 12:41	14601	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 12:41	14603	SWHI_T1	6	3	-3	0.48	0.43	-0.05	-1.11	-1.11	1	1	0	600	600	0
4/25/2024 12:41	14602	SWHI_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
4/25/2024 12:41	58001	WCAR_T1	11	15	4	0.86	0.75	-0.11	0	0	0	0	0	0	0	0
4/25/2024 12:41	60101	COCA_T1	2	3	1	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
4/25/2024 12:41	58003	WCAR_T1	58	64	6	0.35	0.35	0	0.76	0.79	0	0	0	0	0	0
4/25/2024 12:41	60102	COCA_T1	0	0	0	0	0	0	-0.6	-0.06	2	2	0	1200	1200	0
4/25/2024 12:42	67605	WARW_T1	65	65	0	0.63	0.65	0.02	-1.18	-1.13	0	0	0	0	0	0
4/25/2024 12:42	67603	WARW_T1	5	2	-3	0.52	0.8	0.28	0	0	0	0	0	0	0	0
4/25/2024 12:42	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 12:42	60101	COCA_T1	2	3	1	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
4/25/2024 12:42	60102	COCA_T1	0	0	0	0	0	0	-0.6	-0.06	2	2	0	1200	1200	0
4/25/2024 12:43	14201	EALL_T1	0	2	2	0	0.3	0.3	0.48	0.48	0	0	0	0	0	0
4/25/2024 12:43	60801	BUCK_T1	4	4	0	0.23	0.35	0.12	-0.18	-0.08	0	0	0	0	0	0
4/25/2024 12:43	14203	EALL_T1	5	5	0	0.58	0.66	0.08	0	0	0	0	0	0	0	0
4/25/2024 12:44	45902	AUBU_T1	3	3	0	0.5	0.47	-0.03	-1.01	-0.93	2	2	0	1200	1200	0
4/25/2024 12:45	67605	WARW_T1	59	64	5	0.62	0.66	0.04	0	0	0	0	0	0	0	0
4/25/2024 12:45	67604	WARW_T1	1	0	-1	0.2	0	-0.2	0.09	0.04	0	0	0	0	0	0
4/25/2024 12:45	67603	WARW_T1	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/25/2024 12:46	50501	MECH_T1	5	5	0	0.9	1.12	0.22	0.05	0.03	0	0	0	0	0	0
4/25/2024 12:46	50503	MECH_T1	2	1	-1	0.9	1.5	0.6	0	0	0	0	0	0	0	0
4/25/2024 12:46	51202	MTON_T2	3	3	0	1.03	0.87	-0.16	0	0	0	0	0	0	0	0
4/25/2024 12:46	50504	MECH_T1	4	2	-2	0.28	0.4	0.12	0	0	0	0	0	0	0	0
4/25/2024 12:46	50505	MECH_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/25/2024 12:46	51204	MTON_T2	2	2	0	0.2	0.3	0.1	-0.47	-0.46	1	1	0	600	600	0
4/25/2024 12:46	50506	MECH_T1	4	10	6	0.8	0.58	-0.22	0	0	0	0	0	0	0	0
4/25/2024 12:46	50502	MECH_T1	2	2	0	1.05	1.1	0.05	0	0	0	0	0	0	0	0
4/25/2024 12:47	51204	MTON_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/25/2024 12:47	67501	WEWI_T1	4	4	0	0.73	0.45	-0.28	-0.64	-0.66	0	0	0	0	0	0
4/25/2024 12:47	67603	WARW_T1	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/25/2024 12:47	67604	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 12:47	67605	WARW_T1	59	64	5	0.62	0.66	0.04	-1.18	-1.13	0	0	0	0	0	0
4/25/2024 12:47	51202	MTON_T2	3	3	0	1.03	0.87	-0.16	0.2	0.2	0	0	0	0	0	0
4/25/2024 12:47	67505	WEWI_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/25/2024 12:48	60801	BUCK_T1	4	1	-3	0.35	0.1	-0.25	-0.18	-0.08	0	0	0	0	0	0
4/25/2024 12:51	45402	WBLO_T2	4	3	-1	0.68	0.63	-0.05	-0.84	-0.87	0	0	0	0	0	0
4/25/2024 12:53	61101	BERK_T5	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/25/2024 12:53	61103	BERK_T5	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
4/25/2024 12:53	61102	BERK_T5	0	0	0	0	0	0	2.62	2.38	2	2	0	600	600	0
4/25/2024 12:53	43304	WATS_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
4/25/2024 12:54	45902	AUBU_T1	3	3	0	0.4	0.5	0.1	-0.47	-0.61	1	1	0	600	600	0
4/25/2024 12:54	57403	SPAN_T1	18	13	-5	0.31	0.35	0.04	-0.08	-0.1	0	0	0	0	0	0
4/25/2024 12:54	57401	SPAN_T1	8	9	1	0.68	0.92	0.24	0	0	0	0	0	0	0	0
4/25/2024 12:55	45902	AUBU_T1	3	3	0	0.4	0.5	0.1	-0.47	-0.61	1	1	0	600	600	0
4/25/2024 12:55	57403	SPAN_T1	18	13	-5	0.31	0.35	0.04	-0.08	-0.1	0	0	0	0	0	0
4/25/2024 12:55	57401	SPAN_T1	8	9	1	0.68	0.92	0.24	0	0	0	0	0	0	0	0
4/25/2024 12:56	14201	EALL_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/25/2024 12:56	57403	SPAN_T1	18	13	-5	0.31	0.35	0.04	-0.08	-0.1	0	0	0	0	0	0
4/25/2024 12:56	45501	DERR_T2	4	4	0	0.78	0.93	0.15	0.61	0.63	2	2	0	1800	1800	0
4/25/2024 12:56	14203	EALL_T1	4	5	1	0.73	0.66	-0.07	-0.19	-0.28	1	1	0	1200	1200	0
4/25/2024 12:56	57401	SPAN_T1	8	9	1	0.68	0.92	0.24	0	0	0	0	0	0	0	0
4/25/2024 12:57	14201	EALL_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/25/2024 12:57	14203	EALL_T1	4	5	1	0.73	0.66	-0.07	-0.19	-0.28	1	1	0	1200	1200	0
4/25/2024 12:58	57401	SPAN_T1	8	9	1	0.68	0.92	0.24	-1.23	-1.28	1	1	0	600	600	0
4/25/2024 12:58	45501	DERR_T2	4	4	0	0.78	0.93	0.15	0.61	0.63	2	2	0	1800	1800	0
4/25/2024 12:58	57403	SPAN_T1	18	13	-5	0.31	0.35	0.04	0	0	0	0	0	0	0	0
4/25/2024 13:00	45501	DERR_T2	4	4	0	0.85	0.98	0.13	0	0	0	0	0	0	0	0
4/25/2024 13:00	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 13:00	45502	DERR_T2	0	0	0	0	0	0	0.28	0.24	0	0	0	0	0	0
4/25/2024 13:00	45902	AUBU_T1	2	6	4	0.6	0.58	-0.02	-0.93	-1.22	2	2	0	1200	1200	0
4/25/2024 13:02	67605	WARW_T1	62	58	-4	0.66	0.66	0	-1.13	-1.11	0	0	0	0	0	0
4/25/2024 13:02	67603	WARW_T1	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
4/25/2024 13:05	41902	REED_T1	2	2	0	0.5	0.75	0.25	1.1	0.98	0	0	0	0	0	0
4/25/2024 13:06	41902	REED_T1	2	2	0	0.5	0.75	0.25	1.1	0.98	0	0	0	0	0	0
4/25/2024 13:06	47403	PENS_T1	2	2	0	1.05	1.4	0.35	0	0	0	0	0	0	0	0
4/25/2024 13:06	26401	INOR_T1	4	2	-2	2.48	4.55	2.07	0.54	0.78	0	0	0	0	0	0
4/25/2024 13:06	26402	INOR_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/25/2024 13:06	47401	PENS_T1	2	2	0	1.15	1.5	0.35	1.08	1.05	0	0	0	0	0	0
4/25/2024 13:06	47402	PENS_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/25/2024 13:07	58401	MORO_T1	4	3	-1	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
4/25/2024 13:07	58402	MORO_T1	1	3	2	0.1	0.43	0.33	-0.33	-0.32	2	2	0	1500	1500	0
4/25/2024 13:07	67605	WARW_T1	62	58	-4	0.66	0.66	0	-1.13	-1.11	0	0	0	0	0	0
4/25/2024 13:07	67603	WARW_T1	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
4/25/2024 13:10	17901	BART_T1	2	2	0	0.75	0.95	0.2	0	0.03	0	0	0	0	0	0
4/25/2024 13:11	45901	AUBU_T1	0	1	1	0	0.1	0.1	1.71	1.74	0	0	0	0	0	0
4/25/2024 13:11	45902	AUBU_T1	2	6	4	0.6	0.58	-0.02	0	0	0	0	0	0	0	0
4/25/2024 13:12	17901	BART_T1	2	2	0	0.75	0.95	0.2	0	0.03	0	0	0	0	0	0
4/25/2024 13:13	47901	HRDG_T1	0	1	1	0	0	0	2.3	2.3	0	0	0	0	0	0
4/25/2024 13:14	46803	HEPB_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/25/2024 13:14	46801	HEPB_T2	2	2	0	0.25	0.2	-0.05	0.51	0.54	0	0	0	0	0	0
4/25/2024 13:14	14204	EALL_T2	4	1	-3	0.33	0.4	0.07	-0.42	-0.37	0	0	0	0	0	0
4/25/2024 13:18	13503	MCMI_T2	8	11	3	0.46	0.45	-0.01	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 13:18	67605	WARW_T1	58	58	0	0.62	0.65	0.03	-1.11	-1.09	0	0	0	0	0	0
4/25/2024 13:18	67603	WARW_T1	2	2	0	0.55	0.85	0.3	0	0	0	0	0	0	0	0
4/25/2024 13:19	63602	LETO_T1	5	140	135	0.24	0.2	-0.04	-0.47	-0.45	0	0	0	0	0	0
4/25/2024 13:19	63601	LETO_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/25/2024 13:20	60801	BUCK_T1	0	0	0	0	0	0	0.11	0.06	0	0	0	0	0	0
4/25/2024 13:20	13503	MCMI_T2	8	11	3	0.46	0.45	-0.01	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 13:21	65503	MOJO_T2	7	2	-5	0.51	0.9	0.39	-0.31	-0.32	0	0	0	0	0	0
4/25/2024 13:23	67603	WARW_T1	2	2	0	0.55	0.85	0.3	0	0	0	0	0	0	0	0
4/25/2024 13:23	45902	AUBU_T1	2	6	4	0.7	0.68	-0.02	-0.62	-0.67	1	1	0	600	600	0
4/25/2024 13:23	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 13:23	64101	REFR_T1	0	0	0	0	0	0	-0.75	-0.81	0	0	0	0	0	0
4/25/2024 13:23	67605	WARW_T1	58	58	0	0.62	0.65	0.03	-1.09	-1.1	0	0	0	0	0	0
4/25/2024 13:24	13702	SCHN_T1	0	0	0	0	0	0	0.89	0.9	0	0	0	0	0	0
4/25/2024 13:24	14402	SSLA_T1	5	4	-1	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
4/25/2024 13:24	13705	SCHN_T1	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
4/25/2024 13:24	14403	SSLA_T1	3	4	1	0.43	0.43	0	0.6	0.58	0	0	0	0	0	0
4/25/2024 13:24	14401	SSLA_T1	6	7	1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/25/2024 13:24	14404	SSLA_T1	12	9	-3	0.85	1.14	0.29	0	0	0	0	0	0	0	0
4/25/2024 13:25	60801	BUCK_T1	0	0	0	0	0	0	0.06	0.09	0	0	0	0	0	0
4/25/2024 13:26	45602	WOOL_T1	6	8	2	0.45	0.59	0.14	0.43	0.43	0	0	0	0	0	0
4/25/2024 13:26	14602	SWHI_T1	1	3	2	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/25/2024 13:26	51107	CARL_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
4/25/2024 13:26	14601	SWHI_T1	1	3	2	0.1	0.37	0.27	-0.39	-0.37	0	0	0	0	0	0
4/25/2024 13:26	45902	AUBU_T1	2	6	4	0.7	0.68	-0.02	-1.25	-1.34	2	2	0	1200	1200	0
4/25/2024 13:26	51109	CARL_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/25/2024 13:26	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 13:26	51108	CARL_T1	3	3	0	0.23	0.2	-0.03	-0.46	-0.45	1	1	0	600	600	0
4/25/2024 13:26	51102	CARL_T1	15	32	17	0.48	0.31	-0.17	0	0	0	0	0	0	0	0
4/25/2024 13:26	14603	SWHI_T1	7	11	4	0.54	0.56	0.02	0	0	0	0	0	0	0	0
4/25/2024 13:27	14601	SWHI_T1	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
4/25/2024 13:27	45902	AUBU_T1	2	6	4	0.7	0.68	-0.02	-0.62	-0.67	1	1	0	600	600	0
4/25/2024 13:27	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 13:27	14602	SWHI_T1	1	3	2	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/25/2024 13:27	14603	SWHI_T1	7	11	4	0.54	0.56	0.02	-1.1	-1.09	1	1	0	600	600	0
4/25/2024 13:29	20403	ASHF_T2	26	15	-11	0.48	0.74	0.26	1.23	0.09	0	0	0	0	0	0
4/25/2024 13:29	11407	FARM_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/25/2024 13:29	11406	FARM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 13:29	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 13:29	11401	FARM_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/25/2024 13:29	11405	FARM_T1	13	10	-3	0.23	0.27	0.04	-1.1	-1.11	1	1	0	1200	1200	0
4/25/2024 13:29	20401	ASHF_T2	0	7	7	0	0.36	0.36	0	0	0	0	0	0	0	0
4/25/2024 13:29	11403	FARM_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/25/2024 13:29	11402	FARM_T1	8	8	0	0.61	0.53	-0.08	0	0	0	0	0	0	0	0
4/25/2024 13:29	11404	FARM_T1	4	3	-1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/25/2024 13:30	44502	HAMI_T2	5	6	1	0.84	0.92	0.08	0	0	0	0	0	0	0	0
4/25/2024 13:30	44504	HAMI_T2	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/25/2024 13:30	44505	HAMI_T2	7	7	0	0.49	0.54	0.05	0	0	0	0	0	0	0	0
4/25/2024 13:30	44503	HAMI_T2	0	0	0	0	0	0	-1.23	-1.15	0	0	0	0	0	0
4/25/2024 13:31	45902	AUBU_T1	6	5	-1	0.58	0.82	0.24	-0.62	-0.67	1	1	0	600	600	0
4/25/2024 13:31	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 13:32	13502	MCMI_T1	10	13	3	0.47	0.47	0	0	0	0	0	0	0	0	0
4/25/2024 13:32	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 13:32	13501	MCMI_T1	2	3	1	0.5	0.23	-0.27	0.05	0.05	0	0	0	0	0	0
4/25/2024 13:32	45902	AUBU_T1	6	5	-1	0.58	0.82	0.24	-0.62	-0.67	1	1	0	600	600	0
4/25/2024 13:33	54501	ENOL_T2	5	6	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/25/2024 13:33	54505	ENOL_T2	4	4	0	0.68	0.83	0.15	0	0	0	0	0	0	0	0
4/25/2024 13:33	67605	WARW_T1	47	56	9	0.69	0.66	-0.03	-1.09	-1.1	0	0	0	0	0	0
4/25/2024 13:33	67603	WARW_T1	1	2	1	0.2	0.85	0.65	0	0	0	0	0	0	0	0
4/25/2024 13:33	54504	ENOL_T2	2	2	0	0.95	0.75	-0.2	0	0	0	0	0	0	0	0
4/25/2024 13:33	54503	ENOL_T2	4	3	-1	0.33	0.5	0.17	-1.26	-1.36	1	1	0	600	600	0
4/25/2024 13:33	54502	ENOL_T2	7	9	2	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
4/25/2024 13:34	54505	ENOL_T2	4	4	0	0.68	0.83	0.15	0	0	0	0	0	0	0	0
4/25/2024 13:34	54502	ENOL_T2	7	9	2	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
4/25/2024 13:34	54504	ENOL_T2	2	2	0	0.95	0.75	-0.2	0	0	0	0	0	0	0	0
4/25/2024 13:34	54503	ENOL_T2	4	3	-1	0.33	0.5	0.17	-1.26	-1.36	1	1	0	600	600	0
4/25/2024 13:34	54501	ENOL_T2	5	6	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/25/2024 13:35	13503	MCMI_T2	8	9	1	0.48	0.53	0.05	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 13:36	54503	ENOL_T2	4	3	-1	0.33	0.5	0.17	-1.26	-1.36	1	1	0	600	600	0
4/25/2024 13:36	54504	ENOL_T2	2	2	0	0.95	0.75	-0.2	0	0	0	0	0	0	0	0
4/25/2024 13:36	54502	ENOL_T2	7	9	2	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
4/25/2024 13:36	43801	SWIL_T1	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
4/25/2024 13:36	54501	ENOL_T2	5	6	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/25/2024 13:36	43802	SWIL_T1	1	1	0	0.8	1	0.2	-0.34	-0.33	1	1	0	600	600	0
4/25/2024 13:36	54505	ENOL_T2	4	4	0	0.68	0.83	0.15	0	0	0	0	0	0	0	0
4/25/2024 13:37	14401	SSLA_T1	7	4	-3	0.67	0.9	0.23	-0.58	-0.6	0	0	0	0	0	0
4/25/2024 13:37	67605	WARW_T1	47	56	9	0.69	0.66	-0.03	-1.09	-1.1	0	0	0	0	0	0
4/25/2024 13:37	14404	SSLA_T1	9	6	-3	1.06	1.57	0.51	0	0	0	0	0	0	0	0
4/25/2024 13:37	67603	WARW_T1	1	2	1	0.2	0.85	0.65	0	0	0	0	0	0	0	0
4/25/2024 13:37	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 13:37	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/25/2024 13:37	23002	SAJO_T1	1	1	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
4/25/2024 13:37	23001	SAJO_T1	0	1	1	0	0.1	0.1	-0.97	-0.93	0	0	0	0	0	0
4/25/2024 13:37	66502	SMAN_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/25/2024 13:37	14403	SSLA_T1	3	3	0	0.4	0.67	0.27	0	0	0	0	0	0	0	0
4/25/2024 13:37	66505	SMAN_T2	4	4	0	0.53	0.53	0	0	0	0	0	0	0	0	0
4/25/2024 13:37	66501	SMAN_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/25/2024 13:37	45902	AUBU_T1	6	5	-1	0.58	0.82	0.24	-1.25	-1.34	2	2	0	1200	1200	0
4/25/2024 13:37	14402	SSLA_T1	3	3	0	0.47	0.53	0.06	0	0	0	0	0	0	0	0
4/25/2024 13:37	66504	SMAN_T2	3	1	-2	0.7	1.4	0.7	-0.59	-0.53	0	0	0	0	0	0
4/25/2024 13:38	66703	STRA_T1	2	0	-2	0.25	0	-0.25	-0.18	-0.06	0	0	0	0	0	0
4/25/2024 13:38	64101	REFR_T1	0	0	0	0	0	0	-0.81	-0.74	0	0	0	0	0	0
4/25/2024 13:38	66701	STRA_T1	2	2	0	0.35	0.7	0.35	0	0	0	0	0	0	0	0
4/25/2024 13:39	66703	STRA_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
4/25/2024 13:39	66701	STRA_T1	2	2	0	0.35	0.7	0.35	0.43	0.42	0	0	0	0	0	0
4/25/2024 13:40	15001	BLMO_T1	4	6	2	1	0.55	-0.45	0	0	0	0	0	0	0	0
4/25/2024 13:40	14203	EALL_T1	3	5	2	0.23	0.74	0.51	-0.24	-0.18	1	1	0	1200	1200	0
4/25/2024 13:40	44301	BEAV_T2	2	1	-1	0.4	0.7	0.3	1.37	1.46	1	1	0	600	600	0
4/25/2024 13:41	41301	FISH_T1	9	6	-3	1.02	1.37	0.35	-0.07	-0.05	0	0	0	0	0	0
4/25/2024 13:42	61502	EPET_T1	1	1	0	0.4	0.1	-0.3	-0.96	-0.93	0	0	0	0	0	0
4/25/2024 13:42	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 13:42	45902	AUBU_T1	6	5	-1	0.58	0.82	0.24	-1.34	-1.45	2	2	0	1200	1200	0
4/25/2024 13:42	61505	EPET_T1	1	3	2	0.2	0.77	0.57	0	0	0	0	0	0	0	0
4/25/2024 13:42	61503	EPET_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 13:44	11203	ELHE_T1	0	0	0	0	0	0	0.83	0.83	0	0	0	0	0	0
4/25/2024 13:44	41202	KENM_T2	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/25/2024 13:44	41301	FISH_T1	9	6	-3	1.02	1.37	0.35	-0.07	-0.05	0	0	0	0	0	0
4/25/2024 13:44	41206	KENM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 13:44	11205	ELHE_T1	0	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0
4/25/2024 13:44	41204	KENM_T2	1	1	0	0.5	0.4	-0.1	0.23	0.23	0	0	0	0	0	0
4/25/2024 13:45	41303	FISH_T1	0	0	0	0	0	0	-0.19	-0.16	0	0	0	0	0	0
4/25/2024 13:45	41301	FISH_T1	6	4	-2	1.37	1.28	-0.09	0	0	0	0	0	0	0	0
4/25/2024 13:47	64305	LINC_T1	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
4/25/2024 13:47	51204	MTON_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/25/2024 13:47	51202	MTON_T2	2	2	0	1.5	1.3	-0.2	0.19	0.18	0	0	0	0	0	0
4/25/2024 13:49	46504	LOHA_T1	56	4	-52	0.47	1.13	0.66	0	0	0	0	0	0	0	0
4/25/2024 13:49	46501	LOHA_T1	2	3	1	0.4	0.4	0	0	0	0	0	0	0	0	0
4/25/2024 13:49	51202	MTON_T2	2	2	0	1.5	1.3	-0.2	0.19	0.18	0	0	0	0	0	0
4/25/2024 13:49	51204	MTON_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/25/2024 13:49	46506	LOHA_T1	1	2	1	0.1	0.15	0.05	-0.47	-0.46	0	0	0	0	0	0
4/25/2024 13:50	13806	SALI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 13:50	13801	SALI_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/25/2024 13:50	13807	SALI_T1	4	5	1	0.75	0.72	-0.03	0.1	0.1	0	0	0	0	0	0
4/25/2024 13:50	13805	SALI_T1	4	1	-3	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
4/25/2024 13:52	45902	AUBU_T1	4	9	5	0.85	0.68	-0.17	-0.67	-0.73	1	1	0	600	600	0
4/25/2024 13:53	57401	SPAN_T1	7	6	-1	0.74	0.62	-0.12	0	0	0	0	0	0	0	0
4/25/2024 13:53	45902	AUBU_T1	4	9	5	0.85	0.68	-0.17	-0.73	-0.89	1	1	0	600	600	0
4/25/2024 13:53	57403	SPAN_T1	23	25	2	0.25	0.25	0	-0.09	-0.08	0	0	0	0	0	0
4/25/2024 13:55	57403	SPAN_T1	23	25	2	0.25	0.25	0	0	0	0	0	0	0	0	0
4/25/2024 13:55	57401	SPAN_T1	7	6	-1	0.74	0.62	-0.12	-1.28	-1.18	1	1	0	600	600	0
4/25/2024 13:55	67502	WEWI_T2	8	8	0	0.45	0.45	0	-0.21	-0.2	0	0	0	0	0	0
4/25/2024 13:56	14601	SWHI_T1	3	2	-1	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
4/25/2024 13:56	67502	WEWI_T2	8	8	0	0.45	0.45	0	-0.21	-0.2	0	0	0	0	0	0
4/25/2024 13:56	14602	SWHI_T1	2	2	0	1.05	0.95	-0.1	0	0	0	0	0	0	0	0
4/25/2024 13:56	14603	SWHI_T1	8	8	0	0.74	0.63	-0.11	-1.08	-1.1	1	1	0	600	600	0
4/25/2024 13:57	45902	AUBU_T1	4	9	5	0.85	0.68	-0.17	-0.73	-0.89	1	1	0	600	600	0
4/25/2024 13:58	67702	WERN_T2	3	3	0	0.27	0.47	0.2	-0.01	-0.05	0	0	0	0	0	0
4/25/2024 13:58	67703	WERN_T2	3	3	0	1	0.93	-0.07	0	0	0	0	0	0	0	0
4/25/2024 13:58	14602	SWHI_T1	2	2	0	1.05	0.95	-0.1	0	0	0	0	0	0	0	0
4/25/2024 13:58	14601	SWHI_T1	3	2	-1	0.37	0.35	-0.02	-0.39	-0.4	0	0	0	0	0	0
4/25/2024 13:58	67701	WERN_T2	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
4/25/2024 13:58	45902	AUBU_T1	4	9	5	0.85	0.68	-0.17	-0.73	-0.89	1	1	0	600	600	0
4/25/2024 13:58	14603	SWHI_T1	8	8	0	0.74	0.63	-0.11	-1.08	-1.1	1	1	0	600	600	0
4/25/2024 13:59	41802	GOCI_T2	4	8	4	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/25/2024 13:59	41801	GOCI_T2	339	349	10	1.07	1.06	-0.01	0	0	0	0	0	0	0	0
4/25/2024 14:00	45801	HEGI_T1	0	0	0	0	0	0	-0.02	-0.02	1	1	0	900	900	0
4/25/2024 14:02	41801	GOCI_T2	340	350	10	0.97	1.05	0.08	0	0	0	0	0	0	0	0
4/25/2024 14:02	67603	WARW_T1	2	3	1	0.65	0.97	0.32	0	0	0	0	0	0	0	0
4/25/2024 14:02	67605	WARW_T1	41	38	-3	0.69	0.67	-0.02	-1.07	-1.09	0	0	0	0	0	0
4/25/2024 14:02	67604	WARW_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/25/2024 14:02	41802	GOCI_T2	7	5	-2	0.13	0.16	0.03	0	0	0	0	0	0	0	0
4/25/2024 14:03	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-1.13	-1.15	1	1	0	600	600	0
4/25/2024 14:03	58402	MORO_T1	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/25/2024 14:06	56503	ROCK_T2	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/25/2024 14:06	56501	ROCK_T2	4	6	2	0.8	0.58	-0.22	0	0	0	0	0	0	0	0
4/25/2024 14:06	56504	ROCK_T2	4	5	1	0.13	0.66	0.53	0	0	0	0	0	0	0	0
4/25/2024 14:07	67604	WARW_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/25/2024 14:07	67603	WARW_T1	2	3	1	0.65	0.97	0.32	0	0	0	0	0	0	0	0
4/25/2024 14:07	67605	WARW_T1	41	38	-3	0.69	0.67	-0.02	-1.07	-1.09	0	0	0	0	0	0
4/25/2024 14:08	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 14:08	45902	AUBU_T1	5	10	5	0.7	0.62	-0.08	-0.89	-0.78	1	1	0	600	600	0
4/25/2024 14:09	26001	WDAM_T1	3	3	0	0.33	0.4	0.07	-0.44	-0.44	0	0	0	0	0	0
4/25/2024 14:09	26002	WDAM_T1	5	2	-3	0.18	0.35	0.17	0	0	0	0	0	0	0	0
4/25/2024 14:10	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 14:10	45902	AUBU_T1	5	10	5	0.7	0.62	-0.08	-0.89	-0.78	1	1	0	600	600	0
4/25/2024 14:12	24501	GOUL_T2	1	1	0	0.7	0.7	0	0.01	0.04	0	0	0	0	0	0
4/25/2024 14:12	61703	ELIZ_T1	0	1	1	0	0.1	0.1	-2.56	-2.59	2	2	0	2100	2100	0
4/25/2024 14:12	61701	ELIZ_T1	1	1	0	4.6	4.5	-0.1	0	0	0	0	0	0	0	0
4/25/2024 14:13	45902	AUBU_T1	5	10	5	0.7	0.62	-0.08	-0.89	-0.78	1	1	0	600	600	0
4/25/2024 14:13	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 14:14	63306	GREE_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/25/2024 14:14	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 14:14	63304	GREE_T1	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
4/25/2024 14:14	45902	AUBU_T1	5	10	5	0.7	0.62	-0.08	-0.89	-0.78	1	1	0	600	600	0
4/25/2024 14:14	63303	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 14:15	40901	JESH_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/25/2024 14:15	40902	JESH_T1	3	4	1	0.3	0.4	0.1	-0.03	0.06	1	0	-1	600	0	-600
4/25/2024 14:15	61506	EPET_T2	1	0	-1	0.1	0	-0.1	-0.92	-0.98	1	1	0	900	900	0
4/25/2024 14:15	61504	EPET_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 14:16	41601	CLEV_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/25/2024 14:16	41602	CLEV_T1	1	2	1	1.1	0.4	-0.7	0	0	0	0	0	0	0	0
4/25/2024 14:17	41601	CLEV_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/25/2024 14:17	41602	CLEV_T1	1	2	1	1.1	0.4	-0.7	0	0	0	0	0	0	0	0
4/25/2024 14:18	13807	SALI_T1	5	4	-1	0.56	0.83	0.27	0	0	0	0	0	0	0	0
4/25/2024 14:18	13806	SALI_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/25/2024 14:18	13805	SALI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 14:18	13801	SALI_T1	2	3	1	0.25	0.27	0.02	0.81	0.83	0	0	0	0	0	0
4/25/2024 14:19	23001	SAJO_T1	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
4/25/2024 14:19	41902	REED_T1	2	2	0	0.4	0.65	0.25	1.13	1.08	0	0	0	0	0	0
4/25/2024 14:19	23002	SAJO_T1	1	1	0	2	1.9	-0.1	0	0	0	0	0	0	0	0
4/25/2024 14:20	58402	MORO_T1	1	1	0	0.3	0.8	0.5	-0.31	-0.34	2	2	0	1500	1500	0
4/25/2024 14:20	13801	SALI_T1	2	3	1	0.25	0.27	0.02	0.81	0.83	0	0	0	0	0	0
4/25/2024 14:20	13606	RICH_T2	2	1	-1	3.75	7.5	3.75	1.2	1.36	0	0	0	0	0	0
4/25/2024 14:20	40902	JESH_T1	3	4	1	0.3	0.4	0.1	-0.03	0.06	1	0	-1	600	0	-600
4/25/2024 14:20	13601	RICH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 14:20	40901	JESH_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/25/2024 14:20	26401	INOR_T1	4	4	0	2.48	2.55	0.07	1.02	0.91	0	0	0	0	0	0
4/25/2024 14:20	13805	SALI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 14:20	26402	INOR_T1	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
4/25/2024 14:20	13803	SALI_T1	0	0	0	0	0	0	-0.07	0.03	2	2	0	2400	2400	0
4/25/2024 14:20	13807	SALI_T1	5	4	-1	0.56	0.83	0.27	0	0	0	0	0	0	0	0
4/25/2024 14:20	13806	SALI_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/25/2024 14:20	58401	MORO_T1	0	0	0	0	0	0	-2.29	-2.25	2	2	0	1200	1200	0
4/25/2024 14:20	64101	REFR_T1	0	0	0	0	0	0	-0.79	-0.73	0	0	0	0	0	0
4/25/2024 14:23	13805	SALI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 14:23	44502	HAMI_T2	4	6	2	1.08	1.03	-0.05	0	0	0	0	0	0	0	0
4/25/2024 14:23	44504	HAMI_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/25/2024 14:23	13803	SALI_T1	0	0	0	0	0	0	-0.07	0.03	2	2	0	2400	2400	0
4/25/2024 14:23	13801	SALI_T1	2	3	1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
4/25/2024 14:23	13807	SALI_T1	5	4	-1	0.56	0.83	0.27	0	0	0	0	0	0	0	0
4/25/2024 14:23	13806	SALI_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/25/2024 14:23	16302	ALPA_T2	2	2	0	0.6	0.6	0	0.67	0.63	0	0	0	0	0	0
4/25/2024 14:23	44505	HAMI_T2	7	8	1	0.37	0.6	0.23	-0.06	-0.09	0	0	0	0	0	0
4/25/2024 14:24	16302	ALPA_T2	2	2	0	0.6	0.6	0	0.63	0.78	0	0	0	0	0	0
4/25/2024 14:24	14601	SWHI_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/25/2024 14:24	16301	ALPA_T1	204	201	-3	0.26	0.26	0	-0.37	-0.35	0	0	0	0	0	0
4/25/2024 14:24	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 14:24	66501	SMAN_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
4/25/2024 14:24	66502	SMAN_T2	4	6	2	0.48	0.47	-0.01	0	0	0	0	0	0	0	0
4/25/2024 14:24	13805	SALI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 14:24	66504	SMAN_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/25/2024 14:24	59201	THOM_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
4/25/2024 14:24	13807	SALI_T1	5	4	-1	0.56	0.83	0.27	0	0	0	0	0	0	0	0
4/25/2024 14:24	14602	SWHI_T1	2	2	0	0.95	1	0.05	0	0	0	0	0	0	0	0
4/25/2024 14:24	59202	THOM_T1	9	13	4	0.5	0.46	-0.04	0	0	0	0	0	0	0	0
4/25/2024 14:24	13803	SALI_T1	0	0	0	0	0	0	0.03	0.05	2	2	0	2400	2400	0
4/25/2024 14:24	13806	SALI_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/25/2024 14:24	45902	AUBU_T1	9	8	-1	0.68	0.46	-0.22	-1.55	-1.47	2	2	0	1200	1200	0
4/25/2024 14:24	66503	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/25/2024 14:24	17901	BART_T1	2	1	-1	1	0.9	-0.1	0.05	0.05	0	0	0	0	0	0
4/25/2024 14:24	13801	SALI_T1	2	3	1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
4/25/2024 14:24	14603	SWHI_T1	7	6	-1	0.51	0.5	-0.01	-1.04	-1.09	1	1	0	600	600	0
4/25/2024 14:24	66505	SMAN_T2	4	4	0	0.85	0.6	-0.25	0.02	0.1	2	2	0	1100	1100	0
4/25/2024 14:25	16302	ALPA_T2	2	2	0	0.6	0.6	0	1.26	1.57	0	0	0	0	0	0
4/25/2024 14:26	16301	ALPA_T1	204	201	-3	0.26	0.26	0	-0.37	-0.35	0	0	0	0	0	0
4/25/2024 14:26	60802	BUCK_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
4/25/2024 14:26	16302	ALPA_T2	2	2	0	0.6	0.6	0	0.63	0.78	0	0	0	0	0	0
4/25/2024 14:27	13702	SCHN_T1	0	0	0	0	0	0	0.96	0.93	0	0	0	0	0	0
4/25/2024 14:27	13705	SCHN_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
4/25/2024 14:29	45902	AUBU_T1	9	8	-1	0.68	0.46	-0.22	-0.78	-0.74	1	1	0	600	600	0
4/25/2024 14:29	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 14:30	45901	AUBU_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 14:30	45902	AUBU_T1	8	6	-2	0.45	0.3	-0.15	-0.78	-0.74	1	1	0	600	600	0
4/25/2024 14:33	13503	MCMI_T2	10	14	4	0.57	0.54	-0.03	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/25/2024 14:34	13502	MCMI_T1	6	11	5	0.43	0.42	-0.01	0	0	0	0	0	0	0	0
4/25/2024 14:34	13501	MCMI_T1	1	1	0	0.3	0.2	-0.1	0.03	0.04	0	0	0	0	0	0
4/25/2024 14:35	26402	INOR_T1	1	3	2	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
4/25/2024 14:35	13501	MCMI_T1	1	1	0	0.3	0.2	-0.1	0.03	0.04	0	0	0	0	0	0
4/25/2024 14:35	13502	MCMI_T1	6	11	5	0.43	0.42	-0.01	0	0	0	0	0	0	0	0
4/25/2024 14:35	26401	INOR_T1	4	4	0	2.55	2.53	-0.02	0.91	0.93	0	0	0	0	0	0
4/25/2024 14:36	13303	ORVI_T1	4	8	4	0.33	0.39	0.06	-0.25	-0.34	0	0	0	0	0	0
4/25/2024 14:37	13302	ORVI_T2	2	4	2	1.6	1.18	-0.42	1.08	1.02	0	0	0	0	0	0
4/25/2024 14:39	45901	AUBU_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 14:39	45902	AUBU_T1	8	6	-2	0.45	0.3	-0.15	-0.74	-0.73	1	1	0	600	600	0
4/25/2024 14:40	15703	TANN_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
4/25/2024 14:40	59202	THOM_T1	10	16	6	0.46	0.56	0.1	0	0	0	0	0	0	0	0
4/25/2024 14:40	45902	AUBU_T1	8	6	-2	0.45	0.3	-0.15	-0.74	-0.73	1	1	0	600	600	0
4/25/2024 14:40	59201	THOM_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
4/25/2024 14:40	15702	TANN_T2	1	1	0	0.3	0.2	-0.1	0.48	0.46	0	0	0	0	0	0
4/25/2024 14:40	45901	AUBU_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 14:41	15702	TANN_T2	1	1	0	0.3	0.2	-0.1	0.48	0.46	0	0	0	0	0	0
4/25/2024 14:41	67502	WEWI_T2	5	5	0	0.44	0.36	-0.08	0	0	0	0	0	0	0	0
4/25/2024 14:41	15703	TANN_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
4/25/2024 14:41	67503	WEWI_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
4/25/2024 14:42	20403	ASHF_T2	8	55	47	1.29	0.29	-1	0.89	0.88	0	0	0	0	0	0
4/25/2024 14:43	11801	FRAN_T2	1	1	0	0.5	0.6	0.1	0.09	0.11	0	0	0	0	0	0
4/25/2024 14:43	11803	FRAN_T2	6	8	2	0.62	0.63	0.01	0	0	0	0	0	0	0	0
4/25/2024 14:45	47101	MARL_T1	0	0	0	0	0	0	-0.03	-0.11	0	0	0	0	0	0
4/25/2024 14:45	45902	AUBU_T1	6	3	-3	0.3	0.2	-0.1	-1.47	-1.45	2	2	0	1200	1200	0
4/25/2024 14:46	46801	HEPB_T2	2	3	1	0.5	0.5	0	0	0	0	0	0	0	0	0
4/25/2024 14:46	51402	LYKE_T1	0	16	16	0	0.18	0.18	0	0	0	0	0	0	0	0
4/25/2024 14:46	51401	LYKE_T1	0	1	1	0	0.3	0.3	0.35	0.29	0	0	0	0	0	0
4/25/2024 14:46	46803	HEPB_T2	1	1	0	0.7	0.5	-0.2	0.42	0.45	0	0	0	0	0	0
4/25/2024 14:47	67503	WEWI_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
4/25/2024 14:47	14204	EALL_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/25/2024 14:47	67502	WEWI_T2	5	4	-1	0.36	0.6	0.24	0	0	0	0	0	0	0	0
4/25/2024 14:47	14205	EALL_T2	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
4/25/2024 14:48	42001	MNVL_T2	11	40	29	0.6	0.29	-0.31	-0.04	0.08	0	0	0	0	0	0
4/25/2024 14:48	42002	MNVL_T2	2	2	0	2.4	2.4	0	0	0	0	0	0	0	0	0
4/25/2024 14:49	46506	LOHA_T1	2	8	6	0.15	0.26	0.11	0	0	0	0	0	0	0	0
4/25/2024 14:49	63304	GREE_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
4/25/2024 14:49	46501	LOHA_T1	3	3	0	0.63	0.67	0.04	0.06	0.04	1	1	0	1200	1200	0
4/25/2024 14:49	46504	LOHA_T1	70	60	-10	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
4/25/2024 14:50	42002	MNVL_T2	2	2	0	2.4	2.4	0	0	0	0	0	0	0	0	0
4/25/2024 14:50	46504	LOHA_T1	70	60	-10	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
4/25/2024 14:50	46506	LOHA_T1	2	8	6	0.15	0.26	0.11	0	0	0	0	0	0	0	0
4/25/2024 14:50	46501	LOHA_T1	3	3	0	0.63	0.67	0.04	0.06	0.04	1	1	0	1200	1200	0
4/25/2024 14:50	42001	MNVL_T2	11	40	29	0.6	0.29	-0.31	-0.04	0.08	0	0	0	0	0	0
4/25/2024 14:51	46504	LOHA_T1	70	60	-10	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
4/25/2024 14:51	46506	LOHA_T1	2	8	6	0.15	0.26	0.11	-0.43	-0.47	0	0	0	0	0	0
4/25/2024 14:51	46501	LOHA_T1	3	3	0	0.63	0.67	0.04	0	0	0	0	0	0	0	0
4/25/2024 14:52	59102	WALK_T2	3	3	0	0.5	0.53	0.03	0	0	0	0	0	0	0	0
4/25/2024 14:52	59101	WALK_T2	63	56	-7	0.54	0.45	-0.09	0.06	0.09	0	0	0	0	0	0
4/25/2024 14:53	56503	ROCK_T2	2	4	2	0.7	0.43	-0.27	0	0	0	0	0	0	0	0
4/25/2024 14:53	56504	ROCK_T2	5	4	-1	0.56	0.8	0.24	0	0	0	0	0	0	0	0
4/25/2024 14:53	56501	ROCK_T2	7	12	5	0.49	0.42	-0.07	0	0	0	0	0	0	0	0
4/25/2024 14:54	46501	LOHA_T1	3	3	0	0.63	0.67	0.04	0.04	0.03	1	1	0	1200	1200	0
4/25/2024 14:54	59101	WALK_T2	63	56	-7	0.54	0.45	-0.09	0.05	0.38	0	0	0	0	0	0
4/25/2024 14:54	46504	LOHA_T1	70	60	-10	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
4/25/2024 14:54	46506	LOHA_T1	2	8	6	0.15	0.26	0.11	0	0	0	0	0	0	0	0
4/25/2024 14:54	59102	WALK_T2	3	3	0	0.5	0.53	0.03	0	0	0	0	0	0	0	0
4/25/2024 14:55	45902	AUBU_T1	6	3	-3	0.3	0.2	-0.1	-0.73	-0.75	1	1	0	600	600	0
4/25/2024 14:56	13704	SCHN_T2	2	4	2	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
4/25/2024 14:56	45902	AUBU_T1	6	3	-3	0.3	0.2	-0.1	-1.45	-1.51	2	2	0	1200	1200	0
4/25/2024 14:56	56504	ROCK_T2	5	4	-1	0.56	0.8	0.24	0	0	0	0	0	0	0	0
4/25/2024 14:56	56501	ROCK_T2	7	12	5	0.49	0.42	-0.07	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 14:56	13701	SCHN_T2	7	7	0	0.33	0.37	0.04	-0.04	-0.05	1	1	0	600	600	0
4/25/2024 14:56	56503	ROCK_T2	2	4	2	0.7	0.43	-0.27	0	0	0	0	0	0	0	0
4/25/2024 14:57	54504	ENOL_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
4/25/2024 14:57	54501	ENOL_T2	5	6	1	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
4/25/2024 14:57	54502	ENOL_T2	4	3	-1	0.3	0.37	0.07	0	0	0	0	0	0	0	0
4/25/2024 14:57	54503	ENOL_T2	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
4/25/2024 14:57	54505	ENOL_T2	3	3	0	0.87	0.93	0.06	-1.37	-1.4	1	1	0	600	600	0
4/25/2024 14:58	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.19	-0.23	0	0	0	0	0	0
4/25/2024 14:58	63404	HONY_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 14:58	63401	HONY_T1	0	0	0	0	0	0	0.44	0.61	2	2	0	1200	1200	0
4/25/2024 15:00	40101	HUNT_T2	0	0	0	0	0	0	-0.19	-0.23	0	0	0	0	0	0
4/25/2024 15:00	45902	AUBU_T1	1	4	3	0.3	0.28	-0.02	-0.73	-0.75	1	1	0	600	600	0
4/25/2024 15:01	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 15:01	51109	CARL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 15:01	51101	CARL_T1	0	1	1	0	0.4	0.4	-1.19	-1.19	1	1	0	600	600	0
4/25/2024 15:01	51102	CARL_T1	13	86	73	0.48	0.26	-0.22	0	0	0	0	0	0	0	0
4/25/2024 15:01	45902	AUBU_T1	1	4	3	0.3	0.28	-0.02	-0.73	-0.75	1	1	0	600	600	0
4/25/2024 15:01	51108	CARL_T1	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
4/25/2024 15:02	59003	MIFF_T1	2	5	3	0.1	0.32	0.22	-0.46	-0.49	0	0	0	0	0	0
4/25/2024 15:02	40101	HUNT_T2	0	0	0	0	0	0	-0.19	-0.23	0	0	0	0	0	0
4/25/2024 15:02	24702	FLND_T2	3	3	0	0.7	0.7	0	1.14	1.22	0	0	0	0	0	0
4/25/2024 15:02	59002	MIFF_T1	6	6	0	0.28	0.43	0.15	0	0	0	0	0	0	0	0
4/25/2024 15:02	59001	MIFF_T1	1	2	1	1	0.9	-0.1	0	0	0	0	0	0	0	0
4/25/2024 15:03	63401	HONY_T1	0	0	0	0	0	0	0.22	0.3	1	1	0	600	600	0
4/25/2024 15:03	65502	MOJO_T2	0	0	0	0	0	0	-0.29	-0.57	0	0	0	0	0	0
4/25/2024 15:03	63404	HONY_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 15:03	65503	MOJO_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
4/25/2024 15:05	46501	LOHA_T1	3	1	-2	0.67	0.7	0.03	0.04	0.03	1	1	0	1200	1200	0
4/25/2024 15:05	46506	LOHA_T1	8	1	-7	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/25/2024 15:05	46504	LOHA_T1	60	34	-26	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
4/25/2024 15:07	58402	MORO_T1	1	1	0	0.8	0.4	-0.4	-0.34	-0.35	2	2	0	1500	1500	0
4/25/2024 15:09	42701	AUGU_T1	12	1	-11	0.44	1.3	0.86	0	0	4	4	0	3600	3600	0
4/25/2024 15:11	46506	LOHA_T1	8	1	-7	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/25/2024 15:11	46501	LOHA_T1	3	1	-2	0.67	0.7	0.03	0.03	-0.02	1	1	0	1200	1200	0
4/25/2024 15:11	42701	AUGU_T1	12	1	-11	0.44	1.3	0.86	0	0	2	1	-1	1800	600	-1200
4/25/2024 15:11	46504	LOHA_T1	60	34	-26	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
4/25/2024 15:11	45902	AUBU_T1	1	4	3	0.3	0.28	-0.02	-1.51	-1.54	2	2	0	1200	1200	0
4/25/2024 15:12	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
4/25/2024 15:13	53502	EVIL_T2	0	0	0	0	0	0	0.38	0.42	1	1	0	600	600	0
4/25/2024 15:13	53501	EVIL_T2	5	13	8	0.64	0.52	-0.12	0	0	0	0	0	0	0	0
4/25/2024 15:14	41601	CLEV_T1	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
4/25/2024 15:14	41602	CLEV_T1	1	1	0	1.1	1.6	0.5	0	0	0	0	0	0	0	0
4/25/2024 15:16	28704	HAML_T2	1	1	0	0.1	0.3	0.2	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 15:16	12002	HATF_T1	1	1	0	0.1	0.2	0.1	0.23	0.15	0	0	0	0	0	0
4/25/2024 15:16	12006	HATF_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/25/2024 15:16	28703	HAML_T2	3	3	0	0.53	0.57	0.04	0	0	0	0	0	0	0	0
4/25/2024 15:16	12003	HATF_T1	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
4/25/2024 15:16	45902	AUBU_T1	3	4	1	0.13	0.33	0.2	-0.75	-0.77	1	1	0	600	600	0
4/25/2024 15:16	28701	HAML_T2	6	6	0	0.82	0.93	0.11	0	0	0	0	0	0	0	0
4/25/2024 15:17	40603	PIGR_T1	3	3	0	0.73	0.93	0.2	0	0	0	0	0	0	0	0
4/25/2024 15:17	40601	PIGR_T1	180	202	22	0.49	0.45	-0.04	0.13	0.08	0	0	0	0	0	0
4/25/2024 15:17	45902	AUBU_T1	3	4	1	0.13	0.33	0.2	-0.75	-0.77	1	1	0	600	600	0
4/25/2024 15:17	40602	PIGR_T1	3	1	-2	0.4	0.4	0	0	0	0	0	0	0	0	0
4/25/2024 15:18	40601	PIGR_T1	180	202	22	0.49	0.45	-0.04	0	0	0	0	0	0	0	0
4/25/2024 15:18	63404	HONY_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 15:18	63401	HONY_T1	0	0	0	0	0	0	0.3	0.3	1	1	0	600	600	0
4/25/2024 15:18	40602	PIGR_T1	3	1	-2	0.4	0.4	0	0.52	0.53	0	0	0	0	0	0
4/25/2024 15:18	40603	PIGR_T1	3	3	0	0.73	0.93	0.2	0	0	0	0	0	0	0	0
4/25/2024 15:20	13503	MCMI_T2	14	5	-9	0.54	0.62	0.08	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 15:21	40603	PIGR_T1	3	3	0	0.73	0.93	0.2	0	0	0	0	0	0	0	0
4/25/2024 15:21	40601	PIGR_T1	180	202	22	0.49	0.45	-0.04	0.13	0.08	0	0	0	0	0	0
4/25/2024 15:21	40602	PIGR_T1	3	1	-2	0.4	0.4	0	0	0	0	0	0	0	0	0
4/25/2024 15:23	20402	ASHF_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/25/2024 15:23	20401	ASHF_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 15:23	20403	ASHF_T2	19	9	-10	0.31	0.49	0.18	0.89	0.85	0	0	0	0	0	0
4/25/2024 15:26	45902	AUBU_T1	3	4	1	0.13	0.33	0.2	-0.77	-0.74	1	1	0	600	600	0
4/25/2024 15:26	46302	ROHR_T1	11	134	123	1.15	0.35	-0.8	0.11	0.14	0	0	0	0	0	0
4/25/2024 15:26	46301	ROHR_T1	27	284	257	0.41	0.36	-0.05	0	0	0	0	0	0	0	0
4/25/2024 15:26	62602	ENGL_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
4/25/2024 15:26	62607	ENGL_T1	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 15:26	62605	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 15:27	45902	AUBU_T1	3	4	1	0.13	0.33	0.2	-0.77	-0.74	1	1	0	600	600	0
4/25/2024 15:27	66505	SMAN_T2	0	4	4	0	0.93	0.93	0.06	-0.23	2	2	0	1100	1100	0
4/25/2024 15:27	66503	SMAN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/25/2024 15:27	66502	SMAN_T2	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
4/25/2024 15:27	66501	SMAN_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
4/25/2024 15:28	62606	ENGL_T1	0	0	0	0	0	0	-0.81	-0.65	1	1	0	900	900	0
4/25/2024 15:28	62607	ENGL_T1	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 15:28	62605	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 15:32	52002	LING_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 15:32	52004	LING_T2	0	1	1	0	0.5	0.5	0.1	0.1	0	0	0	0	0	0
4/25/2024 15:32	20601	GRWO_T2	3	1	-2	0.37	0.4	0.03	-0.18	-0.17	0	0	0	0	0	0
4/25/2024 15:32	52006	LING_T2	3	3	0	0.53	0.6	0.07	0	0	0	0	0	0	0	0
4/25/2024 15:32	20603	GRWO_T2	5	5	0	0.48	0.64	0.16	0	0	0	0	0	0	0	0
4/25/2024 15:32	45902	AUBU_T1	3	5	2	0.33	0.64	0.31	-1.54	-1.48	2	2	0	1200	1200	0
4/25/2024 15:34	58402	MORO_T1	1	1	0	0.3	0.3	0	-0.36	-0.27	2	2	0	1500	1500	0
4/25/2024 15:36	10805	CHHI_T2	1	2	1	7.7	3.9	-3.8	-1.07	-0.65	1	0	-1	600	0	-600
4/25/2024 15:41	63305	GREE_T1	0	0	0	0	0	0	-1	-1.19	0	0	0	0	0	0
4/25/2024 15:43	53501	EVIL_T2	13	12	-1	0.52	0.55	0.03	-0.84	-0.99	2	2	0	1200	1200	0
4/25/2024 15:45	63403	HONY_T2	0	1	1	0	0.1	0.1	-0.46	-0.7	1	1	0	600	600	0
4/25/2024 15:45	11803	FRAN_T2	10	8	-2	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/25/2024 15:45	11801	FRAN_T2	1	1	0	0.4	0.3	-0.1	0.14	0.23	0	0	0	0	0	0
4/25/2024 15:45	59003	MIFF_T1	0	0	0	0	0	0	0.66	0.54	0	0	0	0	0	0
4/25/2024 15:45	59001	MIFF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 15:45	63402	HONY_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
4/25/2024 15:46	63303	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 15:46	41801	GOCI_T2	335	339	4	0.99	0.83	-0.16	0	0	0	0	0	0	0	0
4/25/2024 15:46	63305	GREE_T1	0	1	1	0	0.1	0.1	-1	-1.19	0	0	0	0	0	0
4/25/2024 15:46	41802	GOCI_T2	15	10	-5	0.19	0.15	-0.04	0	0	0	0	0	0	0	0
4/25/2024 15:47	41802	GOCI_T2	15	10	-5	0.19	0.15	-0.04	0	0	0	0	0	0	0	0
4/25/2024 15:47	41801	GOCI_T2	335	339	4	0.99	0.83	-0.16	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/25/2024 15:53	45902	AUBU_T1	3	5	2	0.33	0.62	0.29	-1.64	-1.69	2	2	0	1200	1200	0
4/25/2024 15:54	51301	WIND_T1	6	4	-2	0.43	0.6	0.17	0	0	0	0	0	0	0	0
4/25/2024 15:54	51303	WIND_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/25/2024 15:54	51305	WIND_T1	1	1	0	1.1	1.1	0	0.25	0.22	0	0	0	0	0	0
4/25/2024 15:55	60101	COCA_T1	3	5	2	0.5	0.54	0.04	0.31	0.22	0	0	0	0	0	0
4/25/2024 15:56	66703	STRA_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/25/2024 15:56	66701	STRA_T1	1	1	0	0.1	0.1	0	0.45	0.4	0	0	0	0	0	0
4/25/2024 15:57	40101	HUNT_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
4/25/2024 15:58	45902	AUBU_T1	3	5	2	0.33	0.62	0.29	-0.82	-0.84	1	1	0	600	600	0
4/25/2024 15:58	50103	HARR_T3	5	4	-1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/25/2024 15:58	50105	HARR_T3	6	6	0	5.83	5.73	-0.1	0	0	0	0	0	0	0	0
4/25/2024 15:58	50201	HARR_T3	6	6	0	0.5	0.52	0.02	-1.09	-1.11	1	0	-1	1200	0	-1200
4/25/2024 15:59	45902	AUBU_T1	3	5	2	0.33	0.62	0.29	-0.82	-0.84	1	1	0	600	600	0
4/25/2024 16:00	41301	FISH_T1	7	8	1	0.69	0.9	0.21	-0.07	-0.08	0	0	0	0	0	0
4/25/2024 16:01	42902	MIDD_T2	8	13	5	0.43	0.52	0.09	-2.1	-2.31	2	2	0	1200	1200	0
4/25/2024 16:01	40101	HUNT_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
4/25/2024 16:01	42903	MIDD_T2	2	2	0	0.7	1.55	0.85	0	0	0	0	0	0	0	0
4/25/2024 16:02	42903	MIDD_T2	2	2	0	0.7	1.55	0.85	0	0	0	0	0	0	0	0
4/25/2024 16:02	50505	MECH_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
4/25/2024 16:02	42902	MIDD_T2	8	13	5	0.43	0.52	0.09	-1.05	-1.15	1	1	0	600	600	0
4/25/2024 16:02	50502	MECH_T1	1	3	2	2.7	0.97	-1.73	0	0	0	0	0	0	0	0
4/25/2024 16:02	50501	MECH_T1	4	5	1	1.6	1.38	-0.22	0	0	0	0	0	0	0	0
4/25/2024 16:02	50503	MECH_T1	7	6	-1	0.33	0.53	0.2	0	0	0	0	0	0	0	0
4/25/2024 16:02	50506	MECH_T1	7	5	-2	0.37	0.48	0.11	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 16:02	50504	MECH_T1	5	9	4	0.44	0.23	-0.21	0	0	0	0	0	0	0	0
4/25/2024 16:04	50502	MECH_T1	1	3	2	2.7	0.97	-1.73	0	0	0	0	0	0	0	0
4/25/2024 16:04	50505	MECH_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
4/25/2024 16:04	50501	MECH_T1	4	5	1	1.6	1.38	-0.22	0	0	0	0	0	0	0	0
4/25/2024 16:04	50506	MECH_T1	7	5	-2	0.37	0.48	0.11	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 16:04	50504	MECH_T1	5	9	4	0.44	0.23	-0.21	0	0	0	0	0	0	0	0
4/25/2024 16:04	50503	MECH_T1	7	6	-1	0.33	0.53	0.2	0	0	0	0	0	0	0	0
4/25/2024 16:07	66202	SISP_T2	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
4/25/2024 16:07	66203	SISP_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 16:08	26401	INOR_T1	5	3	-2	2.12	3.27	1.15	0.56	0.49	0	0	0	0	0	0
4/25/2024 16:08	26402	INOR_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
4/25/2024 16:10	13807	SALI_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
4/25/2024 16:11	45902	AUBU_T1	5	1	-4	0.6	0.7	0.1	-0.84	-0.86	1	1	0	600	600	0
4/25/2024 16:14	62607	ENGL_T1	0	0	0	0	0	0	-1.18	-1.17	1	1	0	300	300	0
4/25/2024 16:15	45501	DERR_T2	2	1	-1	1	1	0	0.28	0.13	2	2	0	1800	1800	0
4/25/2024 16:16	46801	HEPB_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
4/25/2024 16:17	54502	ENOL_T2	4	1	-3	0.33	1	0.67	-1.13	-1.16	1	1	0	600	600	0
4/25/2024 16:17	54504	ENOL_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
4/25/2024 16:17	54501	ENOL_T2	4	4	0	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
4/25/2024 16:17	54505	ENOL_T2	3	2	-1	1.17	0.85	-0.32	0	0	0	0	0	0	0	0
4/25/2024 16:19	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 16:27	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 16:27	45902	AUBU_T1	1	3	2	0.7	0.37	-0.33	-0.86	-0.86	1	1	0	600	600	0
4/25/2024 16:27	20403	ASHF_T2	64	99	35	0.3	0.34	0.04	0.22	0.28	0	0	0	0	0	0
4/25/2024 16:27	20401	ASHF_T2	4	1	-3	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/25/2024 16:29	41502	FAIR_T2	0	0	0	0	0	0	-0.69	-0.65	0	0	0	0	0	0
4/25/2024 16:32	47402	PENS_T1	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/25/2024 16:32	47403	PENS_T1	4	3	-1	0.48	0.6	0.12	0	0	0	0	0	0	0	0
4/25/2024 16:32	47401	PENS_T1	2	3	1	0.95	0.43	-0.52	0.98	0.93	0	0	0	0	0	0
4/25/2024 16:33	52002	LING_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
4/25/2024 16:33	52004	LING_T2	0	1	1	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0
4/25/2024 16:33	52006	LING_T2	3	3	0	0.53	0.73	0.2	0	0	0	0	0	0	0	0
4/25/2024 16:33	63401	HONY_T1	0	0	0	0	0	0	0	0.02	1	1	0	600	600	0
4/25/2024 16:34	43201	MVIL_T2	2	3	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/25/2024 16:34	43202	MVIL_T2	128	139	11	1.19	1.11	-0.08	-0.75	-0.74	0	0	0	0	0	0
4/25/2024 16:38	63401	HONY_T1	0	0	0	0	0	0	0.02	0.03	1	1	0	600	600	0
4/25/2024 16:39	46001	BERW_T1	2	5	3	0.3	0.24	-0.06	0.57	0.5	0	0	0	0	0	0
4/25/2024 16:40	59101	WALK_T2	0	1	1	0	0.5	0.5	1.34	1.41	0	0	0	0	0	0
4/25/2024 16:41	46001	BERW_T1	2	5	3	0.3	0.24	-0.06	0.57	0.5	0	0	0	0	0	0
4/25/2024 16:42	46001	BERW_T1	2	5	3	0.3	0.24	-0.06	1.15	1	0	0	0	0	0	0
4/25/2024 16:43	63401	HONY_T1	0	0	0	0	0	0	0.02	0.03	1	1	0	600	600	0
4/25/2024 16:43	62106	ELAN_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
4/25/2024 16:43	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 16:43	46001	BERW_T1	2	5	3	0.3	0.24	-0.06	0.57	0.5	0	0	0	0	0	0
4/25/2024 16:43	62105	ELAN_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/25/2024 16:44	41502	FAIR_T2	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
4/25/2024 16:48	47401	PENS_T1	2	3	1	0.6	0.23	-0.37	0.93	0.98	0	0	0	0	0	0
4/25/2024 16:48	47403	PENS_T1	3	3	0	0.6	0.47	-0.13	0	0	0	0	0	0	0	0
4/25/2024 16:48	63401	HONY_T1	0	0	0	0	0	0	0.02	0.03	1	1	0	600	600	0
4/25/2024 16:48	47402	PENS_T1	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/25/2024 16:48	46001	BERW_T1	2	4	2	0.3	0.23	-0.07	0.57	0.5	0	0	0	0	0	0
4/25/2024 16:49	47403	PENS_T1	3	3	0	0.6	0.47	-0.13	0	0	0	0	0	0	0	0
4/25/2024 16:49	47402	PENS_T1	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/25/2024 16:49	47401	PENS_T1	2	3	1	0.6	0.23	-0.37	0.93	0.98	0	0	0	0	0	0
4/25/2024 16:51	66202	SISP_T2	0	0	0	0	0	0	-0.64	-0.6	0	0	0	0	0	0
4/25/2024 16:51	66203	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 16:53	56802	BENV_T2	6	5	-1	0.53	0.6	0.07	-1.5	-1.5	0	0	0	0	0	0
4/25/2024 16:53	66203	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 16:53	45901	AUBU_T1	0	0	0	0	0	0	1.83	1.81	0	0	0	0	0	0
4/25/2024 16:53	66202	SISP_T2	0	0	0	0	0	0	-0.6	-0.69	0	0	0	0	0	0
4/25/2024 16:53	45902	AUBU_T1	3	3	0	0.37	0.73	0.36	0	0	0	0	0	0	0	0
4/25/2024 16:54	56802	BENV_T2	6	5	-1	0.53	0.6	0.07	-3	-3	0	0	0	0	0	0
4/25/2024 16:55	56802	BENV_T2	6	5	-1	0.53	0.6	0.07	-0.75	-0.75	0	0	0	0	0	0
4/25/2024 16:56	56802	BENV_T2	6	5	-1	0.53	0.6	0.07	-2.25	-2.25	0	0	0	0	0	0
4/25/2024 16:57	56802	BENV_T2	6	5	-1	0.53	0.6	0.07	-0.75	-0.75	0	0	0	0	0	0
4/25/2024 16:58	56802	BENV_T2	6	5	-1	0.53	0.6	0.07	-1.5	-1.5	0	0	0	0	0	0
4/25/2024 16:58	56803	BENV_T1	1	6	5	0.3	0.43	0.13	0	0	0	0	0	0	0	0
4/25/2024 16:58	46001	BERW_T1	2	4	2	0.3	0.23	-0.07	0.5	0.47	0	0	0	0	0	0
4/25/2024 16:58	20403	ASHF_T2	35	46	11	0.42	1.06	0.64	0.28	0.06	0	0	0	0	0	0
4/25/2024 16:58	56801	BENV_T1	17	16	-1	0.36	0.46	0.1	-0.26	-0.27	0	0	0	0	0	0
4/25/2024 16:59	56802	BENV_T2	6	5	-1	0.53	0.6	0.07	-0.75	-0.75	0	0	0	0	0	0
4/25/2024 16:59	45902	AUBU_T1	3	3	0	0.37	0.73	0.36	-0.89	-0.9	1	1	0	600	600	0
4/25/2024 17:01	25402	LAHA_T2	2	1	-1	0.4	1.4	1	-0.55	-0.59	0	0	0	0	0	0
4/25/2024 17:02	64501	LAVI_T1	2	5	3	0.4	0.28	-0.12	-0.38	-0.4	0	0	0	0	0	0
4/25/2024 17:02	64503	LAVI_T1	1	1	0	0.4	0.4	0	-0.15	0	2	2	0	2400	2400	0
4/25/2024 17:03	63303	GREE_T1	0	0	0	0	0	0	-0.24	0.58	1	1	0	600	600	0
4/25/2024 17:03	46001	BERW_T1	4	0	-4	0.23	0	-0.23	0.5	0.47	0	0	0	0	0	0
4/25/2024 17:03	46903	MNTG_T2	140	6	-134	0.33	0.5	0.17	-0.27	-0.25	1	1	0	600	600	0
4/25/2024 17:03	46901	MNTG_T2	0	0	0	0	0	0	-0.05	0.02	1	1	0	1200	1200	0
4/25/2024 17:04	64501	LAVI_T1	2	5	3	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
4/25/2024 17:04	64503	LAVI_T1	1	1	0	0.4	0.4	0	-0.07	0	1	1	0	1200	1200	0
4/25/2024 17:04	12605	MACA_T1	1	1	0	0.1	0.1	0	0.19	0.18	0	0	0	0	0	0
4/25/2024 17:05	12605	MACA_T1	1	1	0	0.1	0.1	0	0.19	0.18	0	0	0	0	0	0
4/25/2024 17:05	64503	LAVI_T1	1	1	0	0.4	0.4	0	-0.07	0	1	1	0	1200	1200	0
4/25/2024 17:05	64501	LAVI_T1	2	5	3	0.4	0.28	-0.12	-0.38	-0.4	0	0	0	0	0	0
4/25/2024 17:08	61103	BERK_T5	2	1	-1	0.15	0.2	0.05	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 17:09	61103	BERK_T5	2	1	-1	0.15	0.2	0.05	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 17:09	46903	MNTG_T2	140	6	-134	0.33	0.5	0.17	-0.25	-0.27	1	1	0	600	600	0
4/25/2024 17:10	67703	WERN_T2	2	0	-2	0.35	0	-0.35	-0.62	-0.62	2	2	0	1800	1800	0
4/25/2024 17:10	67701	WERN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/25/2024 17:11	67703	WERN_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/25/2024 17:11	61103	BERK_T5	2	1	-1	0.15	0.2	0.05	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 17:11	67702	WERN_T2	0	0	0	0	0	0	-0.06	-0.11	0	0	0	0	0	0
4/25/2024 17:11	67701	WERN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/25/2024 17:11	61101	BERK_T5	0	0	0	0	0	0	-0.97	-0.95	0	0	0	0	0	0
4/25/2024 17:12	67701	WERN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/25/2024 17:12	45902	AUBU_T1	1	3	2	1.3	0.67	-0.63	-1.8	-1.84	2	2	0	1200	1200	0
4/25/2024 17:12	61103	BERK_T5	2	1	-1	0.15	0.2	0.05	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 17:12	67703	WERN_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/25/2024 17:12	67702	WERN_T2	0	0	0	0	0	0	-0.06	-0.11	0	0	0	0	0	0
4/25/2024 17:12	42503	ALTA_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
4/25/2024 17:13	41502	FAIR_T2	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
4/25/2024 17:13	51402	LYKE_T1	14	13	-1	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
4/25/2024 17:13	51401	LYKE_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
4/25/2024 17:14	46001	BERW_T1	4	0	-4	0.23	0	-0.23	0.47	0.5	0	0	0	0	0	0
4/25/2024 17:14	50105	HARR_T3	6	6	0	6.03	5.8	-0.23	0	0	0	0	0	0	0	0
4/25/2024 17:14	51108	CARL_T1	5	1	-4	0.34	0.2	-0.14	0	0	0	0	0	0	0	0
4/25/2024 17:14	46203	DANV_T2	10	5	-5	0.2	0.26	0.06	0.08	0.05	0	0	0	0	0	0
4/25/2024 17:14	50201	HARR_T3	1	1	0	0.1	0.2	0.1	0.24	0.26	0	0	0	0	0	0
4/25/2024 17:14	50103	HARR_T3	2	2	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/25/2024 17:14	51101	CARL_T1	6	0	-6	0.12	0	-0.12	-1.45	-1.47	1	1	0	600	600	0
4/25/2024 17:14	51102	CARL_T1	129	23	-106	0.33	0.18	-0.15	0	0	0	0	0	0	0	0
4/25/2024 17:16	64501	LAVI_T1	5	1	-4	0.28	0.5	0.22	-0.4	-0.38	0	0	0	0	0	0
4/25/2024 17:16	64503	LAVI_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/25/2024 17:17	64501	LAVI_T1	5	1	-4	0.28	0.5	0.22	-0.8	-0.77	0	0	0	0	0	0
4/25/2024 17:17	45902	AUBU_T1	3	1	-2	0.67	0.8	0.13	-1.8	-1.84	2	2	0	1200	1200	0
4/25/2024 17:17	64503	LAVI_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/25/2024 17:18	64501	LAVI_T1	5	1	-4	0.28	0.5	0.22	-0.8	-0.77	0	0	0	0	0	0
4/25/2024 17:18	51402	LYKE_T1	13	3	-10	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
4/25/2024 17:18	64503	LAVI_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/25/2024 17:18	14204	EALL_T2	0	1	1	0	0	0	-0.33	-0.36	0	0	0	0	0	0
4/25/2024 17:18	51401	LYKE_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
4/25/2024 17:19	46001	BERW_T1	0	0	0	0	0	0	0.47	0.5	0	0	0	0	0	0
4/25/2024 17:20	12102	SALL_T2	1	1	0	0.7	0.4	-0.3	0.09	0.11	0	0	0	0	0	0
4/25/2024 17:20	12101	SALL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 17:25	61103	BERK_T5	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 17:25	61102	BERK_T5	0	0	0	0	0	0	1.07	0.89	1	1	0	300	300	0
4/25/2024 17:25	14602	SWHI_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
4/25/2024 17:25	14603	SWHI_T1	1	0	-1	0.1	0	-0.1	-1.03	-1.07	1	1	0	600	600	0
4/25/2024 17:26	61103	BERK_T5	1	0	-1	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 17:26	45501	DERR_T2	1	0	-1	0.3	0	-0.3	0.16	0.16	2	2	0	1800	1800	0
4/25/2024 17:27	61103	BERK_T5	1	0	-1	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 17:28	22002	BOHE_T1	0	0	0	0	0	0	0.19	0.26	0	0	0	0	0	0
4/25/2024 17:28	53903	HALI_T2	4	3	-1	0.75	0.9	0.15	0	0	0	0	0	0	0	0
4/25/2024 17:28	61103	BERK_T5	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 17:28	53902	HALI_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
4/25/2024 17:28	53901	HALI_T2	2	2	0	0.5	0.35	-0.15	-0.45	-0.42	0	0	0	0	0	0
4/25/2024 17:28	61102	BERK_T5	0	0	0	0	0	0	1.07	0.89	1	1	0	300	300	0
4/25/2024 17:28	22003	BOHE_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/25/2024 17:29	61103	BERK_T5	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 17:29	53901	HALI_T2	2	2	0	0.5	0.35	-0.15	-0.45	-0.42	0	0	0	0	0	0
4/25/2024 17:29	53902	HALI_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
4/25/2024 17:29	53903	HALI_T2	4	3	-1	0.75	0.9	0.15	0	0	0	0	0	0	0	0
4/25/2024 17:29	61102	BERK_T5	0	0	0	0	0	0	1.07	0.89	1	1	0	300	300	0
4/25/2024 17:30	66303	MCGO_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/25/2024 17:30	45702	LIND_T2	1	1	0	2.2	2.1	-0.1	-0.71	-0.73	0	0	0	0	0	0
4/25/2024 17:30	46001	BERW_T1	0	0	0	0	0	0	1	0.99	0	0	0	0	0	0
4/25/2024 17:30	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
4/25/2024 17:30	45501	DERR_T2	0	0	0	0	0	0	0.16	0.16	2	2	0	1800	1800	0
4/25/2024 17:30	53903	HALI_T2	3	3	0	0.9	0.73	-0.17	0	0	0	0	0	0	0	0
4/25/2024 17:30	66302	MCGO_T2	0	0	0	0	0	0	-1.64	-1.54	0	0	0	0	0	0
4/25/2024 17:30	12606	MACA_T1	0	0	0	0	0	0	0.75	0.77	0	0	0	0	0	0
4/25/2024 17:30	53901	HALI_T2	2	1	-1	0.35	0.6	0.25	-0.45	-0.42	0	0	0	0	0	0
4/25/2024 17:31	53903	HALI_T2	3	3	0	0.9	0.73	-0.17	0	0	0	0	0	0	0	0
4/25/2024 17:31	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
4/25/2024 17:31	53901	HALI_T2	2	1	-1	0.35	0.6	0.25	-0.45	-0.42	0	0	0	0	0	0
4/25/2024 17:32	66302	MCGO_T2	0	0	0	0	0	0	-1.64	-1.54	0	0	0	0	0	0
4/25/2024 17:32	64802	MONE_T2	0	2	2	0	0.1	0.1	0.06	0.06	0	0	0	0	0	0
4/25/2024 17:32	66303	MCGO_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/25/2024 17:32	64801	MONE_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/25/2024 17:35	46001	BERW_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
4/25/2024 17:45	46001	BERW_T1	0	0	0	0	0	0	0.99	1	0	0	0	0	0	0
4/25/2024 17:46	40101	HUNT_T2	0	0	0	0	0	0	-0.54	-0.59	0	0	0	0	0	0
4/25/2024 17:48	40101	HUNT_T2	0	0	0	0	0	0	-0.54	-0.59	0	0	0	0	0	0
4/25/2024 17:50	48302	ORWI_T2	2	2	0	1.6	1.95	0.35	-0.05	-0.07	0	0	0	0	0	0
4/25/2024 17:51	46001	BERW_T1	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
4/25/2024 17:53	66901	SHIL_T2	0	0	0	0	0	0	-0.43	-0.4	0	0	0	0	0	0
4/25/2024 17:54	45902	AUBU_T1	1	0	-1	0.4	0	-0.4	-1.97	-2.07	2	2	0	1200	1200	0
4/25/2024 17:56	45902	AUBU_T1	1	0	-1	0.4	0	-0.4	-0.98	-1.04	1	1	0	600	600	0
4/25/2024 17:56	46001	BERW_T1	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
4/25/2024 17:59	45902	AUBU_T1	1	0	-1	0.4	0	-0.4	-1.97	-2.07	2	2	0	1200	1200	0
4/25/2024 18:01	12006	HATF_T1	0	0	0	0	0	0	0.06	0.06	1	1	0	1200	1200	0
4/25/2024 18:01	12001	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 18:01	12002	HATF_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
4/25/2024 18:01	46001	BERW_T1	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
4/25/2024 18:03	29402	BELT_T1	1	2	1	6.7	6.7	0	0	0	0	0	0	0	0	0
4/25/2024 18:03	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 18:04	59301	MCAL_T1	3	3	0	0.27	0.67	0.4	-1.9	-1.89	1	1	0	600	600	0
4/25/2024 18:04	59302	MCAL_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/25/2024 18:04	65601	QVIL_T2	0	0	0	0	0	0	-1.26	-1.26	1	1	0	900	900	0
4/25/2024 18:05	12601	MACA_T1	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
4/25/2024 18:06	43102	SMIL_T2	6	6	0	0.72	0.75	0.03	0	0	0	0	0	0	0	0
4/25/2024 18:06	43108	SMIL_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
4/25/2024 18:06	43103	SMIL_T2	6	10	4	0.37	0.31	-0.06	0	0	0	0	0	0	0	0
4/25/2024 18:06	43104	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 18:09	45902	AUBU_T1	0	0	0	0	0	0	-1.04	-1.02	1	1	0	600	600	0
4/25/2024 18:10	45902	AUBU_T1	0	0	0	0	0	0	-1.04	-1.02	1	1	0	600	600	0
4/25/2024 18:11	10603	BLGL_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
4/25/2024 18:12	46001	BERW_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
4/25/2024 18:12	45902	AUBU_T1	0	0	0	0	0	0	-1.04	-1.02	1	1	0	600	600	0
4/25/2024 18:12	20403	ASHF_T2	43	39	-4	0.86	0.81	-0.05	0.07	0.09	0	0	0	0	0	0
4/25/2024 18:13	15702	TANN_T2	0	0	0	0	0	0	0.44	0.52	0	0	0	0	0	0
4/25/2024 18:13	15703	TANN_T2	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
4/25/2024 18:14	47104	MARL_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
4/25/2024 18:15	45902	AUBU_T1	0	0	0	0	0	0	-2.07	-2.04	2	2	0	1200	1200	0
4/25/2024 18:17	46001	BERW_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
4/25/2024 18:25	45902	AUBU_T1	0	0	0	0	0	0	-1.02	-1.05	1	1	0	600	600	0
4/25/2024 18:26	45902	AUBU_T1	0	0	0	0	0	0	-1.02	-1.05	1	1	0	600	600	0
4/25/2024 18:26	43201	MVIL_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
4/25/2024 18:26	43202	MVIL_T2	162	141	-21	0.8	0.8	0	0	0	0	0	0	0	0	0
4/25/2024 18:28	62104	ELAN_T1	0	0	0	0	0	0	1.14	1.08	2	2	0	2400	2400	0
4/25/2024 18:31	45902	AUBU_T1	0	3	3	0	0.1	0.1	-1.02	-1.05	1	1	0	600	600	0
4/25/2024 18:32	64902	MILL_T2	0	0	0	0	0	0	0.14	0.19	0	0	0	0	0	0
4/25/2024 18:32	47101	MARL_T1	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
4/25/2024 18:32	45902	AUBU_T1	0	3	3	0	0.1	0.1	-1.02	-1.05	1	1	0	600	600	0
4/25/2024 18:33	51003	NHAR_T1	0	0	0	0	0	0	-2.37	-2.47	1	1	0	1200	1200	0
4/25/2024 18:33	51004	NHAR_T1	12	13	1	0.91	1.17	0.26	0	0	0	0	0	0	0	0
4/25/2024 18:33	51002	NHAR_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 18:33	64904	MILL_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
4/25/2024 18:34	62104	ELAN_T1	0	0	0	0	0	0	0.57	0.54	1	1	0	1200	1200	0
4/25/2024 18:35	65202	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 18:35	65205	PRIN_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
4/25/2024 18:35	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 18:37	43102	SMIL_T2	6	6	0	0.52	0.78	0.26	-0.92	-0.94	1	1	0	600	600	0
4/25/2024 18:37	43103	SMIL_T2	7	6	-1	0.34	0.38	0.04	0	0	0	0	0	0	0	0
4/25/2024 18:39	67503	WEWI_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
4/25/2024 18:39	43102	SMIL_T2	6	6	0	0.52	0.78	0.26	-0.94	-0.95	1	1	0	600	600	0
4/25/2024 18:39	43103	SMIL_T2	7	6	-1	0.34	0.38	0.04	0	0	0	0	0	0	0	0
4/25/2024 18:40	43102	SMIL_T2	6	6	0	0.52	0.78	0.26	-0.94	-0.95	1	1	0	600	600	0
4/25/2024 18:40	43103	SMIL_T2	7	6	-1	0.34	0.38	0.04	0	0	0	0	0	0	0	0
4/25/2024 18:40	66502	SMAN_T2	0	0	0	0	0	0	-0.15	0.08	0	0	0	0	0	0
4/25/2024 18:41	66502	SMAN_T2	0	0	0	0	0	0	-0.15	0.08	0	0	0	0	0	0
4/25/2024 18:41	59202	THOM_T1	2	4	2	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/25/2024 18:43	62102	ELAN_T1	0	0	0	0	0	0	0.5	0.55	0	0	0	0	0	0
4/25/2024 18:43	66502	SMAN_T2	0	0	0	0	0	0	-0.15	0.08	0	0	0	0	0	0
4/25/2024 18:43	20403	ASHF_T2	39	42	3	0.81	0.78	-0.03	0.11	0.12	0	0	0	0	0	0
4/25/2024 18:43	11405	FARM_T1	7	6	-1	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
4/25/2024 18:43	11401	FARM_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
4/25/2024 18:43	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 18:44	66502	SMAN_T2	0	0	0	0	0	0	-0.07	0.04	0	0	0	0	0	0
4/25/2024 18:44	62102	ELAN_T1	0	0	0	0	0	0	1.51	1.64	0	0	0	0	0	0
4/25/2024 18:45	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 18:45	29402	BELT_T1	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
4/25/2024 18:46	62102	ELAN_T1	0	0	0	0	0	0	0.5	0.55	0	0	0	0	0	0
4/25/2024 18:47	63802	HEMP_T1	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/25/2024 18:47	63804	HEMP_T1	5	5	0	1.26	1.26	0	0	0	0	0	0	0	0	0
4/25/2024 18:47	63801	HEMP_T1	11	4	-7	0.12	0.15	0.03	-0.25	-0.35	0	0	0	0	0	0
4/25/2024 18:47	63803	HEMP_T1	39	15	-24	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/25/2024 18:48	23403	HONE_T1	0	0	0	0	0	0	-0.75	-0.81	0	0	0	0	0	0
4/25/2024 18:48	23404	HONE_T1	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
4/25/2024 18:48	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
4/25/2024 18:49	13901	SEID_T1	0	0	0	0	0	0	0.27	0.19	0	0	0	0	0	0
4/25/2024 18:49	52501	PROG_T1	0	0	0	0	0	0	0.39	0.38	1	1	0	300	300	0
4/25/2024 18:49	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
4/25/2024 18:51	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 18:52	52501	PROG_T1	0	0	0	0	0	0	0.39	0.38	1	1	0	300	300	0
4/25/2024 18:53	12102	SALL_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
4/25/2024 18:57	45902	AUBU_T1	0	9	9	0	0.14	0.14	-1.08	-1.03	1	1	0	600	600	0
4/25/2024 18:58	46802	HEPB_T1	1	1	0	0.5	0.5	0	-0.38	-0.37	0	0	0	0	0	0
4/25/2024 18:58	45902	AUBU_T1	0	9	9	0	0.14	0.14	-1.08	-1.03	1	1	0	600	600	0
4/25/2024 18:59	64201	KINZ_T1	2	1	-1	0.6	1.3	0.7	0.59	0.6	0	0	0	0	0	0
4/25/2024 18:59	64204	KINZ_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
4/25/2024 19:03	45902	AUBU_T1	3	12	9	0.1	0.13	0.03	-1.08	-1.03	1	1	0	600	600	0
4/25/2024 19:04	45902	AUBU_T1	3	12	9	0.1	0.13	0.03	-1.08	-1.03	1	1	0	600	600	0
4/25/2024 19:06	64801	MONE_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/25/2024 19:06	64802	MONE_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
4/25/2024 19:07	13803	SALI_T1	0	0	0	0	0	0	0.07	0.1	2	2	0	2400	2400	0
4/25/2024 19:10	13801	SALI_T1	0	0	0	0	0	0	0.81	0.83	0	0	0	0	0	0
4/25/2024 19:10	13803	SALI_T1	0	0	0	0	0	0	0.1	-0.02	2	2	0	2400	2400	0
4/25/2024 19:10	49804	UNIV_T1	1	1	0	0.2	0.5	0.3	0.44	0.42	0	0	0	0	0	0
4/25/2024 19:15	13801	SALI_T1	0	0	0	0	0	0	0.81	0.83	0	0	0	0	0	0
4/25/2024 19:17	46803	HEPB_T2	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
4/25/2024 19:29	12001	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 19:29	12002	HATF_T1	1	1	0	0.4	0.5	0.1	-0.09	-0.06	0	0	0	0	0	0
4/25/2024 19:32	52002	LING_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/25/2024 19:32	52006	LING_T2	2	2	0	1	0.85	-0.15	0	0	0	0	0	0	0	0
4/25/2024 19:32	52004	LING_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
4/25/2024 19:41	15001	BLMO_T1	3	3	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/25/2024 19:41	61102	BERK_T5	0	0	0	0	0	0	0.72	0.84	1	1	0	300	300	0
4/25/2024 19:41	42501	ALTA_T2	0	0	0	0	0	0	0.14	0.15	1	1	0	600	600	0
4/25/2024 19:43	62102	ELAN_T1	0	0	0	0	0	0	0.49	0.53	0	0	0	0	0	0
4/25/2024 20:06	64101	REFR_T1	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
4/25/2024 20:08	46002	BERW_T2	0	0	0	0	0	0	-1.13	-1.1	1	1	0	900	900	0
4/25/2024 20:22	10805	CHHI_T2	1	1	0	8.1	8	-0.1	-0.34	-0.38	0	0	0	0	0	0
4/25/2024 20:23	57103	SPHI_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
4/25/2024 20:23	57106	SPHI_T2	2	2	0	1.35	0.9	-0.45	0	0	0	0	0	0	0	0
4/25/2024 20:23	57101	SPHI_T2	6	6	0	0.65	0.73	0.08	0	0	0	0	0	0	0	0
4/25/2024 20:23	57104	SPHI_T2	2	3	1	3.8	0	-3.8	0	0	0	0	0	0	0	0
4/25/2024 20:24	57101	SPHI_T2	6	6	0	0.65	0.73	0.08	0	0	0	0	0	0	0	0
4/25/2024 20:24	57104	SPHI_T2	2	3	1	3.8	0	-3.8	-1.19	-1.24	0	0	0	0	0	0
4/25/2024 20:24	57106	SPHI_T2	2	2	0	1.35	0.9	-0.45	0	0	0	0	0	0	0	0
4/25/2024 20:25	57101	SPHI_T2	6	6	0	0.65	0.73	0.08	0	0	0	0	0	0	0	0
4/25/2024 20:25	57104	SPHI_T2	2	3	1	3.8	0	-3.8	-1.19	-1.24	0	0	0	0	0	0
4/25/2024 20:25	57106	SPHI_T2	2	2	0	1.35	0.9	-0.45	0	0	0	0	0	0	0	0
4/25/2024 20:27	10805	CHHI_T2	1	1	0	8.1	8	-0.1	-0.38	-0.41	0	0	0	0	0	0
4/25/2024 20:28	65502	MOJO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 20:28	65503	MOJO_T2	1	6	5	0.1	0.1	0	-0.6	-0.62	0	0	0	0	0	0
4/25/2024 20:30	60803	BUCK_T1	0	0	0	0	0	0	-0.58	-0.58	1	1	0	600	600	0
4/25/2024 20:46	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	-1.4	-1.41	1	1	0	600	600	0
4/25/2024 20:46	54502	ENOL_T2	0	6	6	0	0.18	0.18	0	0	0	0	0	0	0	0
4/25/2024 20:47	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	-1.4	-1.41	1	1	0	600	600	0
4/25/2024 20:47	54502	ENOL_T2	0	6	6	0	0.18	0.18	0	0	0	0	0	0	0	0
4/25/2024 20:48	61803	EELI_T2	0	0	0	0	0	0	0.06	0.06	1	1	0	600	600	0
4/25/2024 20:49	54502	ENOL_T2	0	6	6	0	0.18	0.18	0	0	0	0	0	0	0	0
4/25/2024 20:49	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	-1.4	-1.41	1	1	0	600	600	0
4/25/2024 20:49	11507	FREE_T2	0	0	0	0	0	0	0.61	0.63	0	0	0	0	0	0
4/25/2024 20:49	64702	LITI_T2	0	0	0	0	0	0	-0.83	-0.77	0	0	0	0	0	0
4/25/2024 20:50	61801	EELI_T2	0	0	0	0	0	0	-0.86	-0.9	0	0	0	0	0	0
4/25/2024 20:58	15103	UPHA_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
4/25/2024 21:02	64901	MILL_T1	0	7	7	0	0.17	0.17	0	0	0	0	0	0	0	0
4/25/2024 21:02	64904	MILL_T1	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
4/25/2024 21:03	46203	DANV_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/25/2024 21:04	12505	MITR_T2	0	0	0	0	0	0	0.96	0.91	0	0	0	0	0	0
4/25/2024 21:04	12502	MITR_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
4/25/2024 21:12	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/25/2024 21:12	29402	BELT_T1	1	1	0	6.3	7.3	1	0	0	0	0	0	0	0	0
4/25/2024 21:14	67703	WERN_T2	0	0	0	0	0	0	-0.33	-0.36	1	1	0	900	900	0
4/25/2024 21:16	20403	ASHF_T2	35	39	4	0.76	0.92	0.16	0	0	0	0	0	0	0	0
4/25/2024 21:16	20401	ASHF_T2	0	0	0	0	0	0	-0.42	-0.46	0	0	0	0	0	0
4/25/2024 21:17	55002	NEWP_T1	6	5	-1	1.03	1.68	0.65	-0.3	-0.28	0	0	0	0	0	0
4/25/2024 21:17	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/25/2024 21:18	46004	BERW_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
4/25/2024 21:25	12601	MACA_T1	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
4/25/2024 21:27	61304	EARL_T1	0	0	0	0	0	0	-1.07	-1.12	1	1	0	600	600	0
4/25/2024 21:29	66203	SISP_T2	0	0	0	0	0	0	-1.2	-1.25	1	1	0	1200	1200	0
4/25/2024 21:34	24702	FLND_T2	0	0	0	0	0	0	1.01	1.17	0	0	0	0	0	0
4/25/2024 21:36	65603	QVIL_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
4/25/2024 21:36	65602	QVIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:44	41502	FAIR_T2	1	3	2	0.1	0.13	0.03	-0.71	-0.72	0	0	0	0	0	0
4/25/2024 21:46	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	-1.42	-1.41	1	1	0	600	600	0
4/25/2024 21:46	54501	ENOL_T2	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/25/2024 21:46	54502	ENOL_T2	21	7	-14	0.16	0.24	0.08	0	0	0	0	0	0	0	0
4/25/2024 21:48	60803	BUCK_T1	0	5	5	0	0.12	0.12	-0.59	-0.58	1	1	0	600	600	0
4/25/2024 21:48	60801	BUCK_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:48	43304	WATS_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
4/25/2024 21:48	62605	ENGL_T1	0	5	5	0	0.14	0.14	-0.9	-0.9	0	0	0	0	0	0
4/25/2024 21:48	62607	ENGL_T1	1	18	17	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/25/2024 21:48	43302	WATS_T2	3	4	1	0.3	0.88	0.58	0	0	0	0	0	0	0	0
4/25/2024 21:49	63602	LETO_T1	85	199	114	0.18	0.38	0.2	-0.61	-0.63	0	0	0	0	0	0
4/25/2024 21:49	13802	SALI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:49	13807	SALI_T1	6	11	5	0.12	0.15	0.03	0.11	0.11	0	0	0	0	0	0
4/25/2024 21:49	13805	SALI_T1	5	5	0	0.12	0.22	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:49	64904	MILL_T1	0	11	11	0	0.17	0.17	0.45	0.41	0	0	0	0	0	0
4/25/2024 21:49	64901	MILL_T1	1	32	31	0.1	0.21	0.11	0	0	0	0	0	0	0	0
4/25/2024 21:50	64201	KINZ_T1	5	33	28	0.46	0.32	-0.14	0.57	0.58	0	0	0	0	0	0
4/25/2024 21:50	50202	HARR_T3	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/25/2024 21:50	50103	HARR_T3	1	2	1	0.1	0.4	0.3	-1.09	-1.09	1	1	0	1200	1200	0
4/25/2024 21:50	62607	ENGL_T1	1	18	17	0.2	0.1	-0.1	-0.88	-0.89	0	0	0	0	0	0
4/25/2024 21:50	50105	HARR_T3	6	6	0	6	5.83	-0.17	0	0	0	0	0	0	0	0
4/25/2024 21:50	64202	KINZ_T1	8	34	26	0.2	0.34	0.14	0	0	0	0	0	0	0	0
4/25/2024 21:50	64204	KINZ_T1	4	36	32	0.33	0.39	0.06	0	0	0	0	0	0	0	0
4/25/2024 21:50	13502	MCMI_T1	5	4	-1	0.12	0.13	0.01	0	0	0	0	0	0	0	0
4/25/2024 21:50	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
4/25/2024 21:50	62605	ENGL_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
4/25/2024 21:50	64203	KINZ_T1	0	43	43	0	0.17	0.17	0	0	0	0	0	0	0	0
4/25/2024 21:50	61101	BERK_T5	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
4/25/2024 21:50	50201	HARR_T3	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:52	14404	SSLA_T1	63	40	-23	0.24	0.28	0.04	0	0	0	0	0	0	0	0
4/25/2024 21:52	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:52	14402	SSLA_T1	22	23	1	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
4/25/2024 21:52	15203	SFAR_T2	0	0	0	0	0	0	-1.39	-1.37	0	0	0	0	0	0
4/25/2024 21:52	11405	FARM_T1	1	3	2	4	1.3	-2.7	-1.18	-1.21	1	1	0	1200	1200	0
4/25/2024 21:52	64501	LAVI_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
4/25/2024 21:52	62102	ELAN_T1	0	0	0	0	0	0	0.55	0.49	0	0	0	0	0	0
4/25/2024 21:52	62607	ENGL_T1	1	18	17	0.2	0.1	-0.1	-0.88	-0.89	0	0	0	0	0	0
4/25/2024 21:52	64204	KINZ_T1	4	36	32	0.33	0.39	0.06	0	0	0	0	0	0	0	0
4/25/2024 21:52	67702	WERN_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
4/25/2024 21:52	14401	SSLA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
4/25/2024 21:52	62104	ELAN_T1	0	0	0	0	0	0	0.49	0.46	1	1	0	1200	1200	0
4/25/2024 21:52	64203	KINZ_T1	0	43	43	0	0.17	0.17	0	0	0	0	0	0	0	0
4/25/2024 21:52	14403	SSLA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/25/2024 21:52	62605	ENGL_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
4/25/2024 21:52	42701	AUGU_T1	1	0	-1	0.2	0	-0.2	0	0	1	1	0	600	600	0
4/25/2024 21:52	64202	KINZ_T1	8	34	26	0.2	0.34	0.14	0	0	0	0	0	0	0	0
4/25/2024 21:52	51304	WIND_T2	0	0	0	0	0	0	-0.25	-0.3	0	0	0	0	0	0
4/25/2024 21:52	64201	KINZ_T1	5	33	28	0.46	0.32	-0.14	0.57	0.58	0	0	0	0	0	0
4/25/2024 21:52	12605	MACA_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
4/25/2024 21:53	56802	BENV_T2	129	322	193	0.22	0.26	0.04	-1.49	-1.44	0	0	0	0	0	0
4/25/2024 21:53	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 21:53	29402	BELT_T1	1	1	0	7.5	7.9	0.4	0	0	0	0	0	0	0	0
4/25/2024 21:53	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 21:53	20403	ASHF_T2	39	37	-2	0.92	0.81	-0.11	0.15	0.08	0	0	0	0	0	0
4/25/2024 21:53	63602	LETO_T1	85	199	114	0.18	0.38	0.2	-0.63	-0.65	0	0	0	0	0	0
4/25/2024 21:54	28704	HAML_T2	1	1	0	0.8	1	0.2	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 21:54	13802	SALI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:54	24501	GOLE_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
4/25/2024 21:54	64203	KINZ_T1	0	43	43	0	0.17	0.17	0	0	0	0	0	0	0	0
4/25/2024 21:54	64202	KINZ_T1	8	34	26	0.2	0.34	0.14	0	0	0	0	0	0	0	0
4/25/2024 21:54	28703	HAML_T2	3	3	0	0.3	0.77	0.47	0	0	0	0	0	0	0	0
4/25/2024 21:54	66505	SMAN_T2	3	3	0	0.17	0.2	0.03	0	0	0	0	0	0	0	0
4/25/2024 21:54	66701	STRA_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
4/25/2024 21:54	60101	COCA_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
4/25/2024 21:54	67703	WERN_T2	0	0	0	0	0	0	-0.72	-0.82	2	2	0	1800	1800	0
4/25/2024 21:54	66503	SMAN_T2	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
4/25/2024 21:54	64204	KINZ_T1	4	36	32	0.33	0.39	0.06	0	0	0	0	0	0	0	0
4/25/2024 21:54	15001	BLMO_T1	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 21:54	13807	SALI_T1	6	11	5	0.12	0.15	0.03	0.11	0.11	0	0	0	0	0	0
4/25/2024 21:54	67501	WEWI_T1	0	19	19	0	0.11	0.11	-0.78	-0.82	0	0	0	0	0	0
4/25/2024 21:54	66703	STRA_T1	3	19	16	0.13	0.19	0.06	0	0	0	0	0	0	0	0
4/25/2024 21:54	67502	WEWI_T2	77	211	134	0.17	0.25	0.08	-1.12	-1.05	0	0	0	0	0	0
4/25/2024 21:54	54601	SUMM_T2	12	12	0	0.53	0.58	0.05	-2.01	-2.04	2	2	0	2100	2100	0
4/25/2024 21:54	17401	FOHI_T1	0	0	0	0	0	0	-1.06	-1.07	0	0	0	0	0	0
4/25/2024 21:54	64201	KINZ_T1	5	33	28	0.46	0.32	-0.14	0.58	0.56	0	0	0	0	0	0
4/25/2024 21:54	13805	SALI_T1	5	5	0	0.12	0.22	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:55	66505	SMAN_T2	3	3	0	0.17	0.2	0.03	0	0	0	0	0	0	0	0
4/25/2024 21:55	53903	HALI_T2	2	2	0	1.25	1.3	0.05	0	0	0	0	0	0	0	0
4/25/2024 21:55	64902	MILL_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
4/25/2024 21:55	53901	HALI_T2	1	2	1	0.3	0.5	0.2	-0.46	-0.46	0	0	0	0	0	0
4/25/2024 21:55	57004	WHHI_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
4/25/2024 21:55	60101	COCA_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
4/25/2024 21:55	51004	NHAR_T1	6	6	0	1.33	1.37	0.04	-0.46	-0.5	0	0	0	0	0	0
4/25/2024 21:55	17002	RIRO_T2	492	524	32	0.33	0.34	0.01	0.28	0.27	0	0	0	0	0	0
4/25/2024 21:55	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 21:55	53902	HALI_T2	1	1	0	5.1	5.5	0.4	0	0	0	0	0	0	0	0
4/25/2024 21:55	67703	WERN_T2	0	0	0	0	0	0	-0.36	-0.41	1	1	0	900	900	0
4/25/2024 21:55	51002	NHAR_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
4/25/2024 21:55	51003	NHAR_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:55	62607	ENGL_T1	1	18	17	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/25/2024 21:55	66504	SMAN_T2	0	0	0	0	0	0	-1.34	-1.45	0	0	0	0	0	0
4/25/2024 21:55	57006	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 21:55	62605	ENGL_T1	0	5	5	0	0.14	0.14	-0.9	-0.91	0	0	0	0	0	0
4/25/2024 21:55	56802	BENV_T2	129	322	193	0.22	0.26	0.04	-1.49	-1.44	0	0	0	0	0	0
4/25/2024 21:55	47104	MARL_T1	0	0	0	0	0	0	0.32	0.28	0	0	0	0	0	0
4/25/2024 21:56	65503	MOJO_T2	12	19	7	0.18	0.25	0.07	-0.66	-0.7	0	0	0	0	0	0
4/25/2024 21:56	57002	WHHI_T2	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
4/25/2024 21:56	67602	WARW_T2	0	0	0	0	0	0	1.04	1.06	1	1	0	300	300	0
4/25/2024 21:56	48302	ORWI_T2	2	2	0	1.35	1.4	0.05	-0.17	-0.19	0	0	0	0	0	0
4/25/2024 21:56	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:56	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
4/25/2024 21:56	64101	REFR_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
4/25/2024 21:56	62102	ELAN_T1	0	0	0	0	0	0	0.49	0.52	0	0	0	0	0	0
4/25/2024 21:56	67605	WARW_T1	18	24	6	0.56	0.43	-0.13	-1.09	-1.11	0	0	0	0	0	0
4/25/2024 21:56	67702	WERN_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
4/25/2024 21:56	67502	WEWI_T2	77	211	134	0.17	0.25	0.08	-0.56	-0.52	0	0	0	0	0	0
4/25/2024 21:56	66202	SISP_T2	0	0	0	0	0	0	-0.7	-0.75	0	0	0	0	0	0
4/25/2024 21:56	10603	BLGL_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
4/25/2024 21:56	57006	WHHI_T2	1	0	-1	0.2	0	-0.2	0.81	0.84	0	0	0	0	0	0
4/25/2024 21:56	16302	ALPA_T2	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
4/25/2024 21:56	45902	AUBU_T1	137	0	-137	0.2	0	-0.2	-0.56	-0.58	0	0	0	0	0	0
4/25/2024 21:56	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 21:56	66703	STRA_T1	3	19	16	0.13	0.19	0.06	-0.91	-0.87	0	0	0	0	0	0
4/25/2024 21:56	64503	LAVI_T1	0	0	0	0	0	0	-0.22	-0.14	1	1	0	1200	1200	0
4/25/2024 21:56	65602	QVIL_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
4/25/2024 21:56	13502	MCMI_T1	5	4	-1	0.12	0.13	0.01	0	0	0	0	0	0	0	0
4/25/2024 21:56	29402	BELT_T1	1	1	0	7.5	7.9	0.4	0	0	0	0	0	0	0	0
4/25/2024 21:56	65601	QVIL_T2	0	6	6	0	0.13	0.13	-1.33	-1.37	1	1	0	900	900	0
4/25/2024 21:56	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 21:57	40101	HUNT_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
4/25/2024 21:57	67401	WAKE_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:57	60801	BUCK_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:57	45902	AUBU_T1	137	0	-137	0.2	0	-0.2	-1.12	-1.16	0	0	0	0	0	0
4/25/2024 21:57	67402	WAKE_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
4/25/2024 21:57	64101	REFR_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
4/25/2024 21:57	50501	MECH_T1	4	4	0	1.6	1.65	0.05	0	0	0	0	0	0	0	0
4/25/2024 21:57	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:57	50502	MECH_T1	1	1	0	3	2.9	-0.1	-0.21	-0.22	0	0	0	0	0	0
4/25/2024 21:57	56501	ROCK_T2	2	2	0	0.1	0.2	0.1	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 21:57	60803	BUCK_T1	0	5	5	0	0.12	0.12	-0.58	-0.6	1	1	0	600	600	0
4/25/2024 21:57	46802	HEPB_T1	1	1	0	0.5	0.7	0.2	-0.36	-0.35	0	0	0	0	0	0
4/25/2024 21:57	66504	SMAN_T2	0	0	0	0	0	0	-0.67	-0.73	0	0	0	0	0	0
4/25/2024 21:57	15704	TANN_T1	171	208	37	0.28	0.28	0	-1.46	-1.47	0	0	0	0	0	0
4/25/2024 21:57	62102	ELAN_T1	0	0	0	0	0	0	0.49	0.52	0	0	0	0	0	0
4/25/2024 21:57	13901	SEID_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
4/25/2024 21:57	63305	GREE_T1	3	13	10	0.27	0.18	-0.09	0	0	0	0	0	0	0	0
4/25/2024 21:57	23404	HONE_T1	1	1	0	3	3.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:57	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 21:57	60501	NMAN_T2	3	3	0	4.83	4.87	0.04	0	0	0	0	0	0	0	0
4/25/2024 21:57	20403	ASHF_T2	39	37	-2	0.92	0.81	-0.11	0.15	0.08	0	0	0	0	0	0
4/25/2024 21:57	62607	ENGL_T1	1	18	17	0.2	0.1	-0.1	-0.89	-0.9	0	0	0	0	0	0
4/25/2024 21:57	56801	BENV_T1	22	22	0	0.98	1.12	0.14	-0.89	-0.87	1	1	0	600	600	0
4/25/2024 21:57	60502	NMAN_T2	0	0	0	0	0	0	-0.47	-0.57	0	0	0	0	0	0
4/25/2024 21:57	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 21:57	15701	TANN_T1	60	92	32	0.32	0.29	-0.03	0	0	0	0	0	0	0	0
4/25/2024 21:57	63304	GREE_T1	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
4/25/2024 21:57	67605	WARW_T1	18	24	6	0.56	0.43	-0.13	-1.09	-1.11	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/25/2024 21:57	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	-1.41	-1.4	1	1	0	600	600	0
4/25/2024 21:57	64501	LAVI_T1	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
4/25/2024 21:57	22003	BOHE_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:57	14203	EALL_T1	0	0	0	0	0	0	-0.53	-0.51	1	1	0	1200	1200	0
4/25/2024 21:57	64704	LITI_T1	0	0	0	0	0	0	0.06	0.07	1	1	0	600	600	0
4/25/2024 21:57	67502	WEWI_T2	77	211	134	0.17	0.25	0.08	0	0	0	0	0	0	0	0
4/25/2024 21:57	13303	ORVI_T1	0	0	0	0	0	0	-0.6	-0.64	0	0	0	0	0	0
4/25/2024 21:57	56803	BENV_T1	5	5	0	0.74	0.78	0.04	0	0	0	0	0	0	0	0
4/25/2024 21:57	60102	COCA_T1	0	0	0	0	0	0	0.26	0.36	1	1	0	600	600	0
4/25/2024 21:57	66505	SMAN_T2	3	3	0	0.17	0.2	0.03	0	0	0	0	0	0	0	0
4/25/2024 21:57	67503	WEWI_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
4/25/2024 21:57	22002	BOHE_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
4/25/2024 21:57	50504	MECH_T1	16	1	-15	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
4/25/2024 21:57	23403	HONE_T1	0	0	0	0	0	0	-0.78	-0.81	0	0	0	0	0	0
4/25/2024 21:57	62605	ENGL_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
4/25/2024 21:57	47001	HUGH_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
4/25/2024 21:57	12102	SALI_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
4/25/2024 21:57	66202	SISP_T2	0	0	0	0	0	0	-0.7	-0.75	0	0	0	0	0	0
4/25/2024 21:57	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 21:57	64702	LITI_T2	0	1	1	0	0	0	-1.71	-1.81	0	0	0	0	0	0
4/25/2024 21:57	54502	ENOL_T2	21	7	-14	0.16	0.24	0.08	0	0	0	0	0	0	0	0
4/25/2024 21:57	54501	ENOL_T2	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
4/25/2024 21:57	15001	BLMO_T1	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
4/25/2024 21:57	66502	SMAN_T2	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
4/25/2024 21:57	60802	BUCK_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
4/25/2024 21:58	47403	PENS_T1	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
4/25/2024 21:58	16402	MOPO_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
4/25/2024 21:58	13502	MCMI_T1	5	4	-1	0.12	0.13	0.01	0	0	0	0	0	0	0	0
4/25/2024 21:58	60101	COCA_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
4/25/2024 21:58	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	-1.41	-1.4	1	1	0	600	600	0
4/25/2024 21:58	57403	SPAN_T1	3	22	19	0.1	0.23	0.13	0	0	0	0	0	0	0	0
4/25/2024 21:58	64503	LAVI_T1	0	0	0	0	0	0	-0.45	-0.28	2	2	0	2400	2400	0
4/25/2024 21:58	56501	ROCK_T2	2	2	0	0.1	0.2	0.1	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 21:58	56802	BENV_T2	129	322	193	0.22	0.26	0.04	-2.98	-2.88	0	0	0	0	0	0
4/25/2024 21:58	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
4/25/2024 21:58	44201	POIN_T1	87	373	286	0.17	0.25	0.08	-2.47	-2.49	2	2	0	2100	2100	0
4/25/2024 21:58	51002	NHAR_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
4/25/2024 21:58	62605	ENGL_T1	0	5	5	0	0.14	0.14	-0.9	-0.91	0	0	0	0	0	0
4/25/2024 21:58	61101	BERK_T5	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
4/25/2024 21:58	57401	SPAN_T1	1	2	1	0.1	0.35	0.25	-0.99	-1.22	1	1	0	600	600	0
4/25/2024 21:58	54502	ENOL_T2	21	7	-14	0.16	0.24	0.08	0	0	0	0	0	0	0	0
4/25/2024 21:58	64901	MILL_T1	1	32	31	0.1	0.21	0.11	0	0	0	0	0	0	0	0
4/25/2024 21:58	45902	AUBU_T1	137	0	-137	0.2	0	-0.2	-0.56	-0.58	0	0	0	0	0	0
4/25/2024 21:58	66502	SMAN_T2	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
4/25/2024 21:58	54501	ENOL_T2	3	2	-1	0.1	0.1	0	0.08	0.06	0	0	0	0	0	0
4/25/2024 21:58	45901	AUBU_T1	0	1	1	0	0	0	1.86	1.81	0	0	0	0	0	0
4/25/2024 21:58	62607	ENGL_T1	1	18	17	0.2	0.1	-0.1	-1.78	-1.8	0	0	0	0	0	0
4/25/2024 21:58	66504	SMAN_T2	0	0	0	0	0	0	-0.67	-0.73	0	0	0	0	0	0
4/25/2024 21:58	46501	LOHA_T1	0	0	0	0	0	0	-0.01	-0.09	1	1	0	1200	1200	0
4/25/2024 21:58	51004	NHAR_T1	6	6	0	1.33	1.37	0.04	0	0	0	0	0	0	0	0
4/25/2024 21:58	66505	SMAN_T2	3	3	0	0.17	0.2	0.03	0	0	0	0	0	0	0	0
4/25/2024 21:58	61506	EPET_T2	0	0	0	0	0	0	-1.2	-1.22	1	1	0	900	900	0
4/25/2024 21:58	13302	ORVI_T2	0	0	0	0	0	0	0.89	0.84	0	0	0	0	0	0
4/25/2024 21:58	43802	SWIL_T1	0	0	0	0	0	0	-0.36	-0.36	1	1	0	600	600	0
4/25/2024 21:58	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:58	43801	SWIL_T1	2	2	0	3.3	3.35	0.05	0	0	0	0	0	0	0	0
4/25/2024 21:58	29402	BELT_T1	1	1	0	7.5	7.9	0.4	0	0	0	0	0	0	0	0
4/25/2024 21:58	64904	MILL_T1	0	11	11	0	0.17	0.17	0.41	0.41	0	0	0	0	0	0
4/25/2024 21:58	46506	LOHA_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/25/2024 21:58	66303	MCGO_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
4/25/2024 21:58	42902	MIDD_T2	0	0	0	0	0	0	-1.24	-1.17	1	1	0	600	600	0
4/25/2024 21:58	66302	MCGO_T2	0	0	0	0	0	0	-0.7	-0.74	0	0	0	0	0	0
4/25/2024 21:58	47401	PENS_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
4/25/2024 21:58	62104	ELAN_T1	0	0	0	0	0	0	0.92	-0.28	2	2	0	2400	2400	0
4/25/2024 21:58	51003	NHAR_T1	1	3	2	0.1	0.2	0.1	-2.8	-2.87	1	1	0	1200	1200	0
4/25/2024 21:58	46504	LOHA_T1	1	18	17	0.1	0.29	0.19	0	0	0	0	0	0	0	0
4/25/2024 21:58	26401	INOR_T1	1	1	0	8.9	9.8	0.9	0.29	0.3	0	0	0	0	0	0
4/25/2024 21:59	66504	SMAN_T2	0	0	0	0	0	0	-0.67	-0.73	0	0	0	0	0	0
4/25/2024 21:59	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:59	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 21:59	40302	TAMA_T3	41	43	2	0.45	0.48	0.03	0	0	0	0	0	0	0	0
4/25/2024 21:59	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/25/2024 21:59	66202	SISP_T2	0	0	0	0	0	0	-0.7	-0.75	0	0	0	0	0	0
4/25/2024 21:59	17903	BART_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
4/25/2024 21:59	53903	HALI_T2	2	2	0	1.25	1.3	0.05	0	0	0	0	0	0	0	0
4/25/2024 21:59	12605	MACA_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
4/25/2024 21:59	46501	LOHA_T1	0	0	0	0	0	0	-0.01	-0.09	1	1	0	1200	1200	0
4/25/2024 21:59	50202	HARR_T3	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/25/2024 21:59	62102	ELAN_T1	0	0	0	0	0	0	0.49	0.52	0	0	0	0	0	0
4/25/2024 21:59	64801	MONE_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/25/2024 21:59	67502	WEWI_T2	77	211	134	0.17	0.25	0.08	-0.56	-0.52	0	0	0	0	0	0
4/25/2024 21:59	53902	HALI_T2	1	1	0	5.1	5.5	0.4	0	0	0	0	0	0	0	0
4/25/2024 21:59	16301	ALPA_T1	253	241	-12	0.24	0.25	0.01	-0.55	-0.6	0	0	0	0	0	0
4/25/2024 21:59	46301	ROHR_T1	124	253	129	0.24	0.33	0.09	0	0	0	0	0	0	0	0
4/25/2024 21:59	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:59	66505	SMAN_T2	3	3	0	0.17	0.2	0.03	0	0	0	0	0	0	0	0
4/25/2024 21:59	10805	CHHI_T2	1	1	0	7.8	7.2	-0.6	-0.71	-0.5	0	0	0	0	0	0
4/25/2024 21:59	64501	LAVI_T1	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
4/25/2024 21:59	67602	WARW_T2	0	0	0	0	0	0	1.04	1.06	1	1	0	300	300	0
4/25/2024 21:59	14603	SWHI_T1	0	0	0	0	0	0	-1.11	-1.12	1	1	0	600	600	0
4/25/2024 21:59	46504	LOHA_T1	1	18	17	0.1	0.29	0.19	0	0	0	0	0	0	0	0
4/25/2024 21:59	40303	TAMA_T3	7	5	-2	0.19	0.54	0.35	2.03	1.96	0	0	0	0	0	0
4/25/2024 21:59	16302	ALPA_T2	0	0	0	0	0	0	1.09	1.05	0	0	0	0	0	0
4/25/2024 21:59	64902	MILL_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
4/25/2024 21:59	62607	ENGL_T1	1	18	17	0.2	0.1	-0.1	-1.78	-1.8	0	0	0	0	0	0
4/25/2024 21:59	13807	SALI_T1	6	11	5	0.12	0.15	0.03	0	0	0	0	0	0	0	0
4/25/2024 21:59	46506	LOHA_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/25/2024 21:59	62605	ENGL_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
4/25/2024 21:59	52004	LING_T2	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
4/25/2024 21:59	56501	ROCK_T2	2	2	0	0.1	0.2	0.1	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 21:59	47401	PENS_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
4/25/2024 21:59	12807	MICK_T1	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
4/25/2024 21:59	50103	HARR_T3	1	2	1	0.1	0.4	0.3	-1.09	-1.11	1	1	0	1200	1200	0
4/25/2024 21:59	46302	ROHR_T1	6	67	61	1.78	0.29	-1.49	0.1	0.13	0	0	0	0	0	0
4/25/2024 21:59	13805	SALI_T1	5	5	0	0.12	0.22	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:59	53901	HALI_T2	1	2	1	0.3	0.5	0.2	-0.46	-0.46	0	0	0	0	0	0
4/25/2024 21:59	29402	BELT_T1	1	1	0	7.5	7.9	0.4	0	0	0	0	0	0	0	0
4/25/2024 21:59	42903	MIDD_T2	0	0	0	0	0	0	-0.2	-0.1	0	0	0	0	0	0
4/25/2024 21:59	54502	ENOL_T2	21	7	-14	0.16	0.24	0.08	0	0	0	0	0	0	0	0
4/25/2024 21:59	13802	SALI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:59	50201	HARR_T3	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/25/2024 21:59	47403	PENS_T1	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
4/25/2024 21:59	50105	HARR_T3	6	0	-6	6	5.83	-0.17	0	0	0	0	0	0	0	0
4/25/2024 21:59	64802	MONE_T2	0	1	1	0	0.2	0.2	0.14	0.14	0	0	0	0	0	0
4/25/2024 21:59	12803	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 21:59	59101	WALK_T2	0	0	0	0	0	0	1.24	1.15	0	0	0	0	0	0
4/25/2024 21:59	64704	LITI_T1	0	0	0	0	0	0	0.06	0.07	1	1	0	600	600	0
4/25/2024 21:59	57401	SPAN_T1	1	2	1	0.1	0.35	0.25	-0.99	-1.22	1	1	0	600	600	0
4/25/2024 21:59	13801	SALI_T1	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
4/25/2024 21:59	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 21:59	52006	LING_T2	3	3	0	0.8	1.03	0.23	0	0	0	0	0	0	0	0
4/25/2024 21:59	57006	WHHI_T2	1	0	-1	0.2	0	-0.2	0.81	0.84	0	0	0	0	0	0
4/25/2024 21:59	67703	WERN_T2	0	0	0	0	0	0	-0.36	-0.41	1	1	0	900	900	0
4/25/2024 21:59	12802	MICK_T1	0	0	0	0	0	0	-1.11	-1.13	0	0	0	0	0	0
4/25/2024 21:59	57403	SPAN_T1	3	22	19	0.1	0.23	0.13	0	0	0	0	0	0	0	0
4/25/2024 21:59	54501	ENOL_T2	3	2	-1	0.1	0.1	0	0.08	0.06	0	0	0	0	0	0
4/25/2024 21:59	63305	GREE_T1	3	13	10	0.27	0.18	-0.09	-2.48	-2.57	0	0	0	0	0	0
4/25/2024 21:59	52002	LING_T2	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
4/25/2024 21:59	67401	WAKE_T2	0	2	2	0	0.1	0.1	-0.93	-0.99	0	0	0	0	0	0
4/25/2024 22:00	13805	SALI_T1	4	6	2	0.1	0.28	0.18	0	0	0	0	0	0	0	0
4/25/2024 22:00	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/25/2024 22:00	64501	LAVI_T1	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
4/25/2024 22:00	67702	WERN_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
4/25/2024 22:00	13802	SALI_T1	0	26	26	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:00	51102	CARL_T1	195	97	-98	0.48	0.24	-0.24	0	0	0	0	0	0	0	0
4/25/2024 22:00	59202	THOM_T1	7	0	-7	0.11	0	-0.11	0	0	0	0	0	0	0	0
4/25/2024 22:00	65202	PRIN_T1	0	89	89	0	0.14	0.14	0	0	0	0	0	0	0	0
4/25/2024 22:00	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 22:00	62602	ENGL_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/25/2024 22:00	12102	SALI_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
4/25/2024 22:00	15204	SPAR_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
4/25/2024 22:00	42701	AUGU_T1	0	1	1	0	0.7	0.7	0	0	1	2	1	600	1800	1200
4/25/2024 22:00	62105	ELAN_T1	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
4/25/2024 22:00	49803	UNIV_T1	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
4/25/2024 22:00	41801	GOCI_T2	145	101	-44	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
4/25/2024 22:00	67603	WARW_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
4/25/2024 22:00	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:00	24105	EHAZ_T1	4	4	0	6.2	5.88	-0.32	0	0	0	0	0	0	0	0
4/25/2024 22:00	62604	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:00	61703	ELIZ_T1	0	0	0	0	0	0	-2.65	-2.67	2	2	0	2100	2100	0
4/25/2024 22:00	24101	EHAZ_T1	7	17	10	0.8	0.53	-0.27	0	0	0	0	0	0	0	0
4/25/2024 22:00	51101	CARL_T1	17	0	-17	0.13	0	-0.13	-0.95	-0.87	0	0	0	0	0	0
4/25/2024 22:00	56501	ROCK_T2	2	0	-2	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 22:00	13803	SALI_T1	0	0	0	0	0	0	-0.33	-0.48	4	4	0	4800	4800	0
4/25/2024 22:00	26002	WDAM_T1	2	4	2	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/25/2024 22:00	45901	AUBU_T1	0	0	0	0	0	0	1.86	1.81	0	0	0	0	0	0
4/25/2024 22:00	67604	WARW_T1	0	0	0	0	0	0	0.45	0.41	0	0	0	0	0	0
4/25/2024 22:00	15001	BLMO_T1	4	3	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/25/2024 22:00	51104	CARL_T1	7	1	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:00	62601	ENGL_T1	0	1	1	0	0.1	0.1	-0.29	-0.28	0	0	0	0	0	0
4/25/2024 22:00	62605	ENGL_T1	0	26	26	0	0.13	0.13	0	0	0	0	0	0	0	0
4/25/2024 22:00	59301	MCAL_T1	3	2	-1	0.63	0.3	-0.33	-1.9	-1.9	1	1	0	600	600	0
4/25/2024 22:00	49804	UNIV_T1	2	2	0	0.3	0.65	0.35	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/25/2024 22:00	51108	CARL_T1	102	0	-102	0.12	0	-0.12	0	0	0	0	0	0	0	0
4/25/2024 22:00	61102	BERK_T5	0	0	0	0	0	0	0.73	0.68	1	1	0	300	300	0
4/25/2024 22:00	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:00	65901	SAKR_T2	1	1	0	9.6	8.8	-0.8	-1.26	-1.28	1	1	0	900	900	0
4/25/2024 22:00	10805	CHHI_T2	1	1	0	7.2	7.6	0.4	-0.71	-0.5	0	0	0	0	0	0
4/25/2024 22:00	61701	ELIZ_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:00	65205	PRIN_T1	1	59	58	2.1	0.19	-1.91	0	0	0	0	0	0	0	0
4/25/2024 22:00	67605	WARW_T1	24	10	-14	0.43	0.28	-0.15	-2.18	-2.23	0	0	0	0	0	0
4/25/2024 22:00	16401	MOPO_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
4/25/2024 22:00	16302	ALPA_T2	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
4/25/2024 22:00	56802	BENV_T2	322	1	-321	0.26	1.3	1.04	-2.98	-2.88	0	0	0	0	0	0
4/25/2024 22:00	65503	MOJO_T2	18	1	-17	0.25	0	-0.25	-0.66	-0.7	0	0	0	0	0	0
4/25/2024 22:00	65203	PRIN_T1	0	94	94	0	0.12	0.12	0	0	0	0	0	0	0	0
4/25/2024 22:00	41802	GOCI_T2	19	13	-6	0.39	0.15	-0.24	0	0	0	0	0	0	0	0
4/25/2024 22:00	59302	MCAL_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/25/2024 22:00	13804	SALI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:00	24102	EHAZ_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
4/25/2024 22:00	13807	SALI_T1	6	73	67	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
4/25/2024 22:00	25402	LAHA_T2	1	1	0	2.1	0.6	-1.5	-0.93	-0.95	0	0	0	0	0	0
4/25/2024 22:00	62607	ENGL_T1	1	51	50	0.2	0.11	-0.09	0	0	0	0	0	0	0	0
4/25/2024 22:00	13801	SALI_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:00	26001	WDAM_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
4/25/2024 22:00	51107	CARL_T1	5	0	-5	0.18	0	-0.18	0	0	0	0	0	0	0	0
4/25/2024 22:01	12002	HATF_T1	0	1	1	0	0	0	-0.03	-0.09	0	0	0	0	0	0
4/25/2024 22:01	60502	NMAN_T2	0	0	0	0	0	0	-0.47	-0.57	0	0	0	0	0	0
4/25/2024 22:01	54501	ENOL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:01	46001	BERW_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
4/25/2024 22:01	60501	NMAN_T2	3	3	0	4.87	4.8	-0.07	0	0	0	0	0	0	0	0
4/25/2024 22:01	25503	MADI_T1	40	209	169	0.12	0.41	0.29	-1.07	-1.09	0	0	0	0	0	0
4/25/2024 22:01	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:01	62605	ENGL_T1	0	26	26	0	0.13	0.13	-0.9	-0.91	0	0	0	0	0	0
4/25/2024 22:01	46301	ROHR_T1	169	278	109	0.26	0.39	0.13	0.16	0.16	0	0	0	0	0	0
4/25/2024 22:01	62601	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:01	14204	EALL_T2	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
4/25/2024 22:01	46302	ROHR_T1	13	115	102	0.91	0.27	-0.64	0	0	0	0	0	0	0	0
4/25/2024 22:01	59003	MIFF_T1	1	1	0	1.3	1.4	0.1	0.44	0.46	0	0	0	0	0	0
4/25/2024 22:01	13606	RICH_T2	1	1	0	6.9	6.7	-0.2	0	0	0	0	0	0	0	0
4/25/2024 22:01	58001	WCAR_T1	85	10	-75	0.32	0.81	0.49	0	0	0	0	0	0	0	0
4/25/2024 22:01	43302	WATS_T2	4	4	0	0.68	0.88	0.2	0	0	0	0	0	0	0	0
4/25/2024 22:01	54502	ENOL_T2	7	1	-6	0.24	0.5	0.26	0	0	0	0	0	0	0	0
4/25/2024 22:01	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:01	45901	AUBU_T1	0	0	0	0	0	0	1.86	1.81	0	0	0	0	0	0
4/25/2024 22:01	59302	MCAL_T1	1	0	-1	0.6	0	-0.6	-0.34	-0.37	1	1	0	600	600	0
4/25/2024 22:01	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:01	23001	SAUO_T1	0	0	0	0	0	0	0.01	0.09	0	0	0	0	0	0
4/25/2024 22:01	24902	WHHA_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
4/25/2024 22:01	62604	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:01	60801	BUCK_T1	0	21	21	0	0.15	0.15	-0.27	-0.26	0	0	0	0	0	0
4/25/2024 22:01	61703	ELIZ_T1	0	0	0	0	0	0	-2.65	-2.67	2	2	0	2100	2100	0
4/25/2024 22:01	64101	REFR_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
4/25/2024 22:01	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:01	66702	STRA_T1	0	0	0	0	0	0	0.69	0.56	2	2	0	1500	1500	0
4/25/2024 22:01	66505	SMAN_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 22:01	59202	THOM_T1	7	0	-7	0.11	0	-0.11	0	0	0	0	0	0	0	0
4/25/2024 22:01	11101	EGYP_T1	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
4/25/2024 22:01	41202	KENM_T2	1	1	0	0.5	0.9	0.4	0.41	0.42	0	0	0	0	0	0
4/25/2024 22:01	53501	EVIL_T2	2	5	3	0.8	0.78	-0.02	-0.57	-0.8	0	0	0	0	0	0
4/25/2024 22:01	62607	ENGL_T1	1	51	50	0.2	0.11	-0.09	0	0	0	0	0	0	0	0
4/25/2024 22:01	66502	SMAN_T2	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
4/25/2024 22:01	54503	ENOL_T2	0	0	0	0	0	0	-1.36	-1.31	1	1	0	600	600	0
4/25/2024 22:01	61701	ELIZ_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:01	58003	WCAR_T1	227	64	-163	0.43	0.31	-0.12	0.6	0.53	0	0	0	0	0	0
4/25/2024 22:01	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/25/2024 22:01	56501	ROCK_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 22:01	66703	STRA_T1	4	101	97	0.2	0.29	0.09	0	0	0	0	0	0	0	0
4/25/2024 22:01	59301	MCAL_T1	3	2	-1	0.63	0.3	-0.33	0	0	0	0	0	0	0	0
4/25/2024 22:01	62102	ELAN_T1	0	0	0	0	0	0	0.49	0.52	0	0	0	0	0	0
4/25/2024 22:01	40601	PIGR_T1	76	32	-44	0.17	0.14	-0.03	-0.23	-0.21	0	0	0	0	0	0
4/25/2024 22:01	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:01	13601	RICH_T2	0	0	0	0	0	0	-0.14	-0.18	1	1	0	600	600	0
4/25/2024 22:01	43301	WATS_T2	0	0	0	0	0	0	-0.86	-0.84	1	1	0	900	900	0
4/25/2024 22:01	54505	ENOL_T2	1	1	0	1.2	0.5	-0.7	0	0	0	0	0	0	0	0
4/25/2024 22:01	45501	DERR_T2	0	1	1	0	0.3	0.3	-0.41	-0.43	2	2	0	1800	1800	0
4/25/2024 22:01	67502	WEWI_T2	126	285	159	0.22	0.25	0.03	-0.56	-0.52	0	0	0	0	0	0
4/25/2024 22:01	45902	AUBU_T1	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
4/25/2024 22:01	13804	SALI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:01	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:01	13805	SALI_T1	4	6	2	0.1	0.28	0.18	0	0	0	0	0	0	0	0
4/25/2024 22:01	60803	BUCK_T1	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
4/25/2024 22:01	13801	SALI_T1	0	4	4	0	0.1	0.1	0.73	0.73	0	0	0	0	0	0
4/25/2024 22:01	13802	SALI_T1	0	26	26	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:01	64503	LAVI_T1	0	0	0	0	0	0	-0.22	-0.14	1	1	0	1200	1200	0
4/25/2024 22:01	13807	SALI_T1	6	73	67	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
4/25/2024 22:02	57401	SPAN_T1	2	2	0	0.3	0.45	0.15	-0.99	-1.22	1	1	0	600	600	0
4/25/2024 22:02	48302	ORWI_T2	2	2	0	1.25	1.5	0.25	-0.17	-0.19	0	0	0	0	0	0
4/25/2024 22:02	50201	HARR_T3	1	1	0	0.2	0.1	-0.1	0.2	0.19	0	0	0	0	0	0
4/25/2024 22:02	50103	HARR_T3	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/25/2024 22:02	16302	ALPA_T2	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
4/25/2024 22:02	57403	SPAN_T1	22	26	4	0.23	0.24	0.01	-0.17	-0.17	0	0	0	0	0	0
4/25/2024 22:02	20403	ASHF_T2	34	37	3	0.79	0.79	0	0	0	0	0	0	0	0	0
4/25/2024 22:02	43301	WATS_T2	0	0	0	0	0	0	-0.86	-0.84	1	1	0	900	900	0
4/25/2024 22:02	12807	MICK_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/25/2024 22:02	12006	HATF_T1	0	0	0	0	0	0	0.92	0.93	0	0	0	0	0	0
4/25/2024 22:02	12801	MICK_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
4/25/2024 22:02	17901	BART_T1	0	0	0	0	0	0	-0.27	-0.31	0	0	0	0	0	0
4/25/2024 22:02	53902	HALI_T2	1	1	0	5.5	4.9	-0.6	0	0	0	0	0	0	0	0
4/25/2024 22:02	64801	MONE_T2	1	5	4	0.4	0.18	-0.22	0	0	0	0	0	0	0	0
4/25/2024 22:02	58402	MORO_T1	0	0	0	0	0	0	-0.48	-0.48	2	2	0	1500	1500	0
4/25/2024 22:02	63401	HONY_T1	0	0	0	0	0	0	-0.23	-0.17	2	2	0	1200	1200	0
4/25/2024 22:02	50202	HARR_T3	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/25/2024 22:02	26002	WDAM_T1	2	4	2	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/25/2024 22:02	14402	SSLA_T1	23	0	-23	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/25/2024 22:02	53901	HALI_T2	1	0	-1	0.5	0	-0.5	-0.46	-0.46	0	0	0	0	0	0
4/25/2024 22:02	22602	KIMB_T1	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
4/25/2024 22:02	59101	WALK_T2	0	0	0	0	0	0	1.24	1.15	0	0	0	0	0	0
4/25/2024 22:02	24902	WHHA_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
4/25/2024 22:02	20401	ASHF_T2	1	1	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
4/25/2024 22:02	50502	MECH_T1	1	1	0	2.9	2.1	-0.8	0	0	0	0	0	0	0	0
4/25/2024 22:02	43302	WATS_T2	4	4	0	0.68	0.88	0.2	0	0	0	0	0	0	0	0
4/25/2024 22:02	50501	MECH_T1	4	4	0	1.65	0.9	-0.75	0	0	0	0	0	0	0	0
4/25/2024 22:02	64503	LAVI_T1	0	0	0	0	0	0	-0.22	-0.14	1	1	0	1200	1200	0
4/25/2024 22:02	67605	WARW_T1	24	10	-14	0.43	0.28	-0.15	-1.09	-1.11	0	0	0	0	0	0
4/25/2024 22:02	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:02	50504	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:02	14403	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:02	50506	MECH_T1	0	0	0	0	0	0	-0.04	-0.74	0	0	0	0	0	0
4/25/2024 22:02	26001	WDAM_T1	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
4/25/2024 22:02	63404	HONY_T1	0	17	17	0	0.14	0.14	0	0	0	0	0	0	0	0
4/25/2024 22:02	14404	SSLA_T1	40	1	-39	0.28	6.1	5.82	-0.04	-0.05	0	0	0	0	0	0
4/25/2024 22:02	22101	EDEL_T2	0	0	0	0	0	0	0.37	0.35	1	1	0	1200	1200	0
4/25/2024 22:02	56802	BENV_T2	322	1	-321	0.26	1.3	1.04	-1.49	-1.44	0	0	0	0	0	0
4/25/2024 22:02	13701	SCHN_T2	0	0	0	0	0	0	-0.14	-0.11	1	1	0	600	600	0
4/25/2024 22:02	12803	MICK_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/25/2024 22:02	64802	MONE_T2	0	3	3	0	0.13	0.13	0.14	0.14	0	0	0	0	0	0
4/25/2024 22:02	67601	WARW_T2	0	0	0	0	0	0	-0.81	-0.86	0	0	0	0	0	0
4/25/2024 22:02	46004	BERW_T2	0	0	0	0	0	0	-0.37	-0.33	0	0	0	0	0	0
4/25/2024 22:02	64101	REFR_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
4/25/2024 22:02	12001	HATF_T1	0	0	0	0	0	0	2.06	2.16	2	2	0	1200	1200	0
4/25/2024 22:02	17401	FOHI_T1	0	0	0	0	0	0	-1.06	-1.07	0	0	0	0	0	0
4/25/2024 22:02	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/25/2024 22:02	10801	CHHI_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	900	900	0
4/25/2024 22:02	44301	BEAV_T2	0	0	0	0	0	0	0.52	0.5	1	1	0	600	600	0
4/25/2024 22:02	53903	HALI_T2	2	2	0	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
4/25/2024 22:02	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 22:02	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:02	50105	HARR_T3	6	6	0	5.83	6.02	0.19	0	0	0	0	0	0	0	0
4/25/2024 22:03	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:03	53902	HALI_T2	1	1	0	5.5	4.9	-0.6	0	0	0	0	0	0	0	0
4/25/2024 22:03	14402	SSLA_T1	23	0	-23	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/25/2024 22:03	51107	CARL_T1	5	0	-5	0.18	0	-0.18	0	0	0	0	0	0	0	0
4/25/2024 22:03	63402	HONY_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:03	64101	REFR_T1	0	0	0	0	0	0	-1.67	-1.67	0	0	0	0	0	0
4/25/2024 22:03	58001	WCAR_T1	85	10	-75	0.32	0.81	0.49	0	0	0	0	0	0	0	0
4/25/2024 22:03	51102	CARL_T1	195	97	-98	0.48	0.24	-0.24	0	0	0	0	0	0	0	0
4/25/2024 22:03	46802	HEPB_T1	1	1	0	0.6	0.8	0.2	-0.36	-0.35	0	0	0	0	0	0
4/25/2024 22:03	51104	CARL_T1	7	1	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:03	53903	HALI_T2	2	0	-2	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
4/25/2024 22:03	61701	ELIZ_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:03	54502	ENOL_T2	7	1	-6	0.24	0.5	0.26	-1.14	-1.16	1	1	0	600	600	0
4/25/2024 22:03	64303	LINC_T1	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
4/25/2024 22:03	60902	DONG_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
4/25/2024 22:03	16301	ALPA_T1	241	71	-170	0.25	0.16	-0.09	-0.55	-0.6	0	0	0	0	0	0
4/25/2024 22:03	13704	SCHN_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
4/25/2024 22:03	66505	SMAN_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 22:03	47102	MARL_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/25/2024 22:03	51401	LYKE_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
4/25/2024 22:03	15001	BLMO_T1	4	3	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/25/2024 22:03	56802	BENV_T2	322	1	-321	0.26	1.3	1.04	-2.98	-2.88	0	0	0	0	0	0
4/25/2024 22:03	15702	TANN_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
4/25/2024 22:03	62102	ELAN_T1	0	0	0	0	0	0	0.49	0.52	0	0	0	0	0	0
4/25/2024 22:03	14404	SSLA_T1	40	1	-39	0.28	6.1	5.82	-0.04	-0.05	0	0	0	0	0	0
4/25/2024 22:03	56501	ROCK_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 22:03	57403	SPAN_T1	22	26	4	0.23	0.24	0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/25/2024 22:03	51108	CARL_T1	102	0	-102	0.12	0	-0.12	0	0	0	0	0	0	0	0
4/25/2024 22:03	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:03	53901	HALI_T2	1	0	-1	0.5	0	-0.5	-0.46	-0.46	0	0	0	0	0	0
4/25/2024 22:03	54505	ENOL_T2	1	1	0	1.2	0.5	-0.7	-1.41	-1.4	1	1	0	600	600	0
4/25/2024 22:03	53502	EVIL_T2	0	0	0	0	0	0	0.45	0.54	0	0	0	0	0	0
4/25/2024 22:03	53501	EVIL_T2	2	5	3	0.8	0.78	-0.02	0	0	0	0	0	0	0	0
4/25/2024 22:03	47103	MARL_T2	2	0	-2	0.1	0	-0.1	-0.71	-0.74	0	0	0	0	0	0
4/25/2024 22:03	57401	SPAN_T1	2	2	0	0.3	0.45	0.15	-0.99	-1.22	1	1	0	600	600	0
4/25/2024 22:03	45701	LIND_T2	0	0	0	0	0	0	0.3	0.17	0	0	0	0	0	0
4/25/2024 22:03	51202	MTON_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
4/25/2024 22:03	63403	HONY_T2	0	0	0	0	0	0	0.03	0.11	0	0	0	0	0	0
4/25/2024 22:03	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/25/2024 22:03	47901	HRDG_T1	0	0	0	0	0	0	3.84	4.25	0	0	0	0	0	0
4/25/2024 22:03	54503	ENOL_T2	0	0	0	0	0	0	-4.07	-3.92	3	3	0	1800	1800	0
4/25/2024 22:03	42002	MNVL_T2	1	1	0	2.4	2.2	-0.2	0	0	0	0	0	0	0	0
4/25/2024 22:03	14403	SSLA_T1	1	0	-1	0.1	0	-0.1	0.56	0.54	0	0	0	0	0	0
4/25/2024 22:03	41202	KENM_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/25/2024 22:03	45702	LIND_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/25/2024 22:03	58003	WCAR_T1	227	64	-163	0.43	0.31	-0.12	0.6	0.53	0	0	0	0	0	0
4/25/2024 22:03	41205	KENM_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
4/25/2024 22:03	14603	SWHI_T1	0	0	0	0	0	0	-3.33	-3.36	3	3	0	1800	1800	0
4/25/2024 22:03	51101	CARL_T1	17	0	-17	0.13	0	-0.13	-0.95	-0.87	0	0	0	0	0	0
4/25/2024 22:03	54501	ENOL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:03	51402	LYKE_T1	14	86	72	0.16	0.17	0.01	0	0	0	0	0	0	0	0
4/25/2024 22:03	41502	FAIR_T2	3	0	-3	0.13	0	-0.13	-0.72	-0.74	0	0	0	0	0	0
4/25/2024 22:03	15203	SFAR_T2	0	0	0	0	0	0	-1.37	-1.4	0	0	0	0	0	0
4/25/2024 22:03	67703	WERN_T2	0	0	0	0	0	0	-0.36	-0.41	1	1	0	900	900	0
4/25/2024 22:03	61703	ELIZ_T1	0	0	0	0	0	0	-5.29	-5.34	4	4	0	4200	4200	0
4/25/2024 22:03	42001	MNVL_T2	0	0	0	0	0	0	-0.09	-0.14	0	0	0	0	0	0
4/25/2024 22:03	66502	SMAN_T2	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
4/25/2024 22:03	12606	MACA_T1	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
4/25/2024 22:04	66703	STRA_T1	4	101	97	0.2	0.29	0.09	-0.46	-0.44	0	0	0	0	0	0
4/25/2024 22:04	43105	SMIL_T2	4	21	17	0.1	0.25	0.15	0	0	0	0	0	0	0	0
4/25/2024 22:04	10801	OHHI_T1	0	0	0	0.5	0	0	-1.06	-1.07	1	1	0	900	900	0
4/25/2024 22:04	66505	SMAN_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 22:04	67703	WERN_T2	0	0	0	0	0	0	-0.36	-0.41	1	1	0	900	900	0
4/25/2024 22:04	14205	EALL_T2	0	0	0	0	0	0	-0.46	-0.43	0	0	0	0	0	0
4/25/2024 22:04	58001	WCAR_T1	85	10	-75	0.32	0.81	0.49	0	0	0	0	0	0	0	0
4/25/2024 22:04	65601	QVIL_T2	0	45	45	0	0.15	0.15	0	0	0	0	0	0	0	0
4/25/2024 22:04	41303	FISH_T1	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
4/25/2024 22:04	10805	CHHI_T2	1	1	0	7.2	7.6	0.4	-0.71	-0.5	0	0	0	0	0	0
4/25/2024 22:04	66302	MCGO_T2	0	0	0	0	0	0	-0.7	-0.74	0	0	0	0	0	0
4/25/2024 22:04	20401	ASHF_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:04	54501	ENOL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:04	46903	MNTG_T2	0	0	0	0	0	0	0.32	0.25	0	0	0	0	0	0
4/25/2024 22:04	66502	SMAN_T2	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
4/25/2024 22:04	61102	BERK_T5	0	0	0	0	0	0	0.73	0.68	1	1	0	300	300	0
4/25/2024 22:04	13701	SCHN_T2	0	0	0	0	0	0	-0.14	-0.11	1	1	0	600	600	0
4/25/2024 22:04	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:04	43102	SMIL_T2	7	8	1	0.83	1.04	0.21	-1.01	-1	1	1	0	600	600	0
4/25/2024 22:04	57401	SPAN_T1	2	2	0	0.3	0.45	0.15	-0.99	-1.22	1	1	0	600	600	0
4/25/2024 22:04	66303	MCGO_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
4/25/2024 22:04	43103	SMIL_T2	21	22	1	0.73	0.99	0.26	0	0	0	0	0	0	0	0
4/25/2024 22:04	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 22:04	41305	FISH_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:04	67203	TEHI_T1	0	0	0	0	0	0	1.91	1.71	1	1	0	600	600	0
4/25/2024 22:04	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:04	29402	BELT_T1	1	1	0	7.7	8.1	0.4	0	0	0	0	0	0	0	0
4/25/2024 22:04	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
4/25/2024 22:04	47001	HUGH_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
4/25/2024 22:04	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:04	20403	ASHF_T2	34	37	3	0.79	0.79	0	0.15	0.08	0	0	0	0	0	0
4/25/2024 22:04	56501	ROCK_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 22:04	46206	DANV_T2	0	0	0	0	0	0	2.32	2.32	1	1	0	1200	1200	0
4/25/2024 22:04	58003	WCAR_T1	227	64	-163	0.43	0.31	-0.12	0.6	0.53	0	0	0	0	0	0
4/25/2024 22:04	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:04	52501	PROG_T1	0	0	0	0	0	0	0.34	0.24	1	1	0	300	300	0
4/25/2024 22:04	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:04	65602	QVIL_T2	1	10	9	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/25/2024 22:04	29401	BELT_T1	0	3	3	0	0.1	0.1	0	0	1	1	0	900	900	0
4/25/2024 22:04	47401	PENS_T1	0	1	1	0	0.2	0.2	0.64	0.64	0	0	0	0	0	0
4/25/2024 22:04	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 22:04	56802	BENV_T2	322	1	-321	0.26	1.3	1.04	-2.98	-2.88	0	0	0	0	0	0
4/25/2024 22:04	54502	ENOL_T2	7	1	-6	0.24	0.5	0.26	0	0	0	0	0	0	0	0
4/25/2024 22:04	54505	ENOL_T2	1	1	0	1.2	0.5	-0.7	-1.41	-1.4	1	1	0	600	600	0
4/25/2024 22:04	42902	MIDD_T2	0	0	0	0	0	0	-1.24	-1.17	1	1	0	600	600	0
4/25/2024 22:04	57403	SPAN_T1	22	26	4	0.23	0.24	0.01	0	0	0	0	0	0	0	0
4/25/2024 22:04	65604	QVIL_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
4/25/2024 22:04	41301	FISH_T1	17	2	-15	0.41	1.9	1.49	0	0	0	0	0	0	0	0
4/25/2024 22:05	41504	FAIR_T2	0	0	0	0	0	0	-1.06	-1.05	0	0	0	0	0	0
4/25/2024 22:05	61701	ELIZ_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:05	41802	GOCI_T2	19	13	-6	0.39	0.15	-0.24	0	0	0	0	0	0	0	0
4/25/2024 22:05	40303	TAMA_T3	5	2	-3	0.54	0.95	0.41	0	0	0	0	0	0	0	0
4/25/2024 22:05	57401	SPAN_T1	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/25/2024 22:05	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:05	14404	SSLA_T1	40	1	-39	0.28	6.1	5.82	0	0	0	0	0	0	0	0
4/25/2024 22:05	45501	DERR_T2	0	1	1	0	0.3	0.3	-0.41	-0.43	2	2	0	1800	1800	0
4/25/2024 22:05	54601	SUMM_T2	12	5	-7	0.58	0.32	-0.26	-2.01	-2.04	2	2	0	2100	2100	0
4/25/2024 22:05	15702	TANN_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
4/25/2024 22:05	41801	GOCI_T2	145	101	-44	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
4/25/2024 22:05	45602	WOOL_T1	2	0	-2	0.35	0.5	0.15	0.33	0.35	0	0	0	0	0	0
4/25/2024 22:05	42701	AUGU_T1	0	1	1	0	0.7	0.7	0	0	1	2	1	600	1800	1200
4/25/2024 22:05	41502	FAIR_T2	3	0	-3	0.13	0	-0.13	-0.72	-0.74	0	0	0	0	0	0
4/25/2024 22:05	46301	ROHR_T1	169	278	109	0.26	0.39	0.13	0.16	0.16	0	0	0	0	0	0
4/25/2024 22:05	14403	SSLA_T1	1	0	-1	0.1	0	-0.1	0.56	0.54	0	0	0	0	0	0
4/25/2024 22:05	14402	SSLA_T1	23	0	-23	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/25/2024 22:05	17901	BART_T1	0	0	0	0	0	0	-0.27	-0.31	0	0	0	0	0	0
4/25/2024 22:05	16102	BING_T2	0	0	0	0	0	0	-0.26	-0.3	0	0	0	0	0	0
4/25/2024 22:05	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:05	51101	CARL_T1	17	0	-17	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/25/2024 22:05	57403	SPAN_T1	22	26	4	0.23	0.24	0.01	-0.09	-0.09	0	0	0	0	0	0
4/25/2024 22:05	43202	MVIL_T2	170	178	8	0.68	0.93	0.25	0	0	0	0	0	0	0	0
4/25/2024 22:05	44502	HAMI_T2	1	1	0	3.6	3.8	0.2	-1.02	-1.03	0	0	0	0	0	0
4/25/2024 22:05	50502	MECH_T1	1	1	0	2.9	2.1	-0.8	0	0	0	0	0	0	0	0
4/25/2024 22:05	51104	CARL_T1	7	1	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:05	51107	CARL_T1	5	0	-5	0.18	0	-0.18	0	0	0	0	0	0	0	0
4/25/2024 22:05	14601	SWHI_T1	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
4/25/2024 22:05	44601	SALE_T2	1	1	0	0.5	0.9	0.4	-0.17	-0.17	0	0	0	0	0	0
4/25/2024 22:05	50504	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:05	46504	LOHA_T1	2	50	48	0.8	0.29	-0.51	0	0	0	0	0	0	0	0
4/25/2024 22:05	51108	CARL_T1	102	0	-102	0.12	0	-0.12	-0.63	-0.65	0	0	0	0	0	0
4/25/2024 22:05	64503	LAVI_T1	0	0	0	0	0	0	-0.22	-0.14	1	1	0	1200	1200	0
4/25/2024 22:05	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:05	51102	CARL_T1	195	97	-98	0.48	0.24	-0.24	0	0	0	0	0	0	0	0
4/25/2024 22:05	14204	EALL_T2	0	0	0	0	0	0	-0.81	-0.9	0	0	0	0	0	0
4/25/2024 22:05	61703	ELIZ_T1	0	0	0	0	0	0	-2.65	-2.67	2	2	0	2100	2100	0
4/25/2024 22:05	57004	WHHI_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
4/25/2024 22:05	50506	MECH_T1	0	0	0	0	0	0	-0.04	-0.74	0	0	0	0	0	0
4/25/2024 22:05	43201	MVIL_T2	1	2	1	0.2	0.35	0.15	-0.43	-0.41	0	0	0	0	0	0
4/25/2024 22:05	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
4/25/2024 22:05	20401	ASHF_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:05	50501	MECH_T1	4	4	0	1.65	0.9	-0.75	0	0	0	0	0	0	0	0
4/25/2024 22:05	46506	LOHA_T1	0	1	1	0	0.1	0.1	-0.49	-0.51	0	0	0	0	0	0
4/25/2024 22:05	66502	SMAN_T2	0	0	0	0	0	0	0.03	-0.05	0	0	0	0	0	0
4/25/2024 22:05	61502	EPET_T1	0	0	0	0	0	0	-1.18	-1.17	0	0	0	0	0	0
4/25/2024 22:05	55002	NEWP_T1	6	6	0	1.5	0.87	-0.63	-0.3	-0.29	0	0	0	0	0	0
4/25/2024 22:05	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:05	42201	SHEN_T2	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
4/25/2024 22:05	45902	AUBU_T1	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
4/25/2024 22:05	51402	LYKE_T1	14	86	72	0.16	0.17	0.01	-1.54	-1.51	1	1	0	600	600	0
4/25/2024 22:05	40302	TAMA_T3	43	27	-16	0.48	0.44	-0.04	0.33	0.31	0	0	0	0	0	0
4/25/2024 22:05	20403	ASHF_T2	34	37	3	0.79	0.79	0	0.15	0.08	0	0	0	0	0	0
4/25/2024 22:05	66505	SMAN_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 22:05	12002	HATF_T1	0	1	1	0	0	0	-0.03	-0.09	0	0	0	0	0	0
4/25/2024 22:05	58401	MORO_T1	0	0	0	0	0	0	-1.32	-1.34	1	1	0	600	600	0
4/25/2024 22:05	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:05	47401	PENS_T1	0	1	1	0	0.2	0.2	1.27	1.29	0	0	0	0	0	0
4/25/2024 22:05	46302	ROHR_T1	13	115	102	0.91	0.27	-0.64	0	0	0	0	0	0	0	0
4/25/2024 22:05	66503	SMAN_T2	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
4/25/2024 22:06	24201	PROV_T3	1	1	0	6.8	7	0.2	-0.24	-0.27	0	0	0	0	0	0
4/25/2024 22:06	46504	LOHA_T1	2	50	48	0.8	0.29	-0.51	0	0	0	0	0	0	0	0
4/25/2024 22:06	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/25/2024 22:06	66901	SHIL_T2	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
4/25/2024 22:06	66502	SMAN_T2	0	0	0	0	0	0	0.03	-0.05	0	0	0	0	0	0
4/25/2024 22:06	13801	SALI_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:06	13804	SALI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:06	45902	AUBU_T1	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
4/25/2024 22:06	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
4/25/2024 22:06	47401	PENS_T1	0	1	1	0	0.2	0.2	0.64	0.64	0	0	0	0	0	0
4/25/2024 22:06	42701	AUGU_T1	0	1	1	0	0.7	0.7	0	0	1	2	1	600	1800	1200
4/25/2024 22:06	67402	WAKE_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
4/25/2024 22:06	14403	SSLA_T1	1	0	-1	0.1	0	-0.1	0.56	0.54	0	0	0	0	0	0
4/25/2024 22:06	49804	UNIV_T1	2	2	0	0.3	0.65	0.35	0	0	0	0	0	0	0	0
4/25/2024 22:06	42001	MNVL_T2	0	0	0	0	0	0	-0.09	-0.14	0	0	0	0	0	0
4/25/2024 22:06	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
4/25/2024 22:06	63804	HEMP_T1	1	5	4	5.5	1.26	-4.24	0	0	0	0	0	0	0	0
4/25/2024 22:06	14404	SSLA_T1	40	1	-39	0.28	6.1	5.82	0	0	0	0	0	0	0	0
4/25/2024 22:06	64501	LAVI_T1	0	0	0	0	0	0	-0.59	-0.56	0	0	0	0	0	0
4/25/2024 22:06	65501	MOJO_T1	0	0	0	0	0	0	-0.64	-0.66	1	1	0	900	900	0
4/25/2024 22:06	42002	MNVL_T2	1	1	0	2.4	2.2	-0.2	0	0	0	0	0	0	0	0
4/25/2024 22:06	13807	SALI_T1	6	73	67	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
4/25/2024 22:06	23001	SAJO_T1	0	0	0	0	0	0	0.01	0.09	0	0	0	0	0	0
4/25/2024 22:06	14601	SWHI_T1	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/25/2024 22:06	66505	SMAN_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 22:06	46506	LOHA_T1	0	1	1	0	0.1	0.1	-0.49	-0.51	0	0	0	0	0	0
4/25/2024 22:06	24204	PROV_T3	1	1	0	5.1	5.6	0.5	0	0	0	0	0	0	0	0
4/25/2024 22:06	61102	BERK_T5	0	0	0	0	0	0	0.73	0.68	1	1	0	300	300	0
4/25/2024 22:06	63801	HEMP_T1	0	24	24	0	0.14	0.14	0.4	0.16	0	0	0	0	0	0
4/25/2024 22:06	67401	WAKE_T2	0	15	15	0	0.13	0.13	0	0	0	0	0	0	0	0
4/25/2024 22:06	13803	SALI_T1	0	0	0	0	0	0	-0.16	-0.24	2	2	0	2400	2400	0
4/25/2024 22:06	63802	HEMP_T1	0	136	136	0	0.13	0.13	0	0	0	0	0	0	0	0
4/25/2024 22:06	63803	HEMP_T1	1	100	99	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:06	10801	CHHI_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	900	900	0
4/25/2024 22:06	45702	LIND_T2	1	1	0	0.7	0.9	0.2	-1.68	-1.88	0	0	0	0	0	0
4/25/2024 22:06	13502	MCMI_T1	4	3	-1	0.13	0.13	0	0	0	0	0	0	0	0	0
4/25/2024 22:06	13802	SALI_T1	0	26	26	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:06	14402	SSLA_T1	23	0	-23	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/25/2024 22:06	13805	SALI_T1	4	6	2	0.1	0.28	0.18	0	0	0	0	0	0	0	0
4/25/2024 22:06	49803	UNIV_T1	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
4/25/2024 22:07	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:07	62605	ENGL_T1	0	26	26	0	0.13	0.13	0	0	0	0	0	0	0	0
4/25/2024 22:07	63305	GREE_T1	8	16	8	0.19	0.26	0.07	0	0	0	0	0	0	0	0
4/25/2024 22:07	44502	HAMI_T2	1	1	0	3.6	3.8	0.2	0	0	0	0	0	0	0	0
4/25/2024 22:07	28403	HART_T2	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
4/25/2024 22:07	57401	SPAN_T1	2	2	0	0.3	0.45	0.15	-1.97	-2.44	2	2	0	1200	1200	0
4/25/2024 22:07	62604	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:07	63304	GREE_T1	0	15	15	0	0.11	0.11	0	0	0	0	0	0	0	0
4/25/2024 22:07	43103	SMIL_T2	21	22	1	0.73	0.99	0.26	0	0	0	0	0	0	0	0
4/25/2024 22:07	42201	SHEN_T2	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
4/25/2024 22:07	41801	GOCI_T2	145	101	-44	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
4/25/2024 22:07	62607	ENGL_T1	1	51	50	0.2	0.11	-0.09	0	0	0	0	0	0	0	0
4/25/2024 22:07	64501	LAVI_T1	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
4/25/2024 22:07	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:07	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/25/2024 22:07	57403	SPAN_T1	22	26	4	0.23	0.24	0.01	0	0	0	0	0	0	0	0
4/25/2024 22:07	14404	SSLA_T1	40	1	-39	0.28	6.1	5.82	0	0	0	0	0	0	0	0
4/25/2024 22:07	43304	WATS_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
4/25/2024 22:07	14401	SSLA_T1	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
4/25/2024 22:07	41802	GOCI_T2	19	13	-6	0.39	0.15	-0.24	0	0	0	0	0	0	0	0
4/25/2024 22:07	64101	REFR_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
4/25/2024 22:07	14403	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:07	43302	WATS_T2	4	4	0	0.68	0.88	0.2	0	0	0	0	0	0	0	0
4/25/2024 22:07	57205	ROSS_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
4/25/2024 22:07	42002	MNVL_T2	1	1	0	2.4	2.2	-0.2	0.04	0.06	0	0	0	0	0	0
4/25/2024 22:07	13704	SCHN_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
4/25/2024 22:07	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:07	43105	SMIL_T2	4	21	17	0.1	0.25	0.15	0	0	0	0	0	0	0	0
4/25/2024 22:07	62601	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:07	45402	WBLO_T2	1	1	0	1	0.8	-0.2	-0.94	-0.94	0	0	0	0	0	0
4/25/2024 22:07	62606	ENGL_T1	0	1	1	0	0.1	0.1	-0.83	-0.79	1	1	0	900	900	0
4/25/2024 22:07	63303	GREE_T1	0	0	0	0	0	0	0.11	0.06	1	1	0	600	600	0
4/25/2024 22:07	42902	MIDD_T2	0	0	0	0	0	0	-1.24	-1.17	1	1	0	600	600	0
4/25/2024 22:07	14603	SWHI_T1	0	0	0	0	0	0	-1.11	-1.12	1	1	0	600	600	0
4/25/2024 22:07	42401	GIMA_T1	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:07	43108	SMIL_T2	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
4/25/2024 22:07	44504	HAMI_T2	0	0	0	0	0	0	-1.43	-1.45	0	0	0	0	0	0
4/25/2024 22:07	63301	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:07	43102	SMIL_T2	7	8	1	0.83	1.04	0.21	0	0	0	0	0	0	0	0
4/25/2024 22:07	14402	SSLA_T1	23	0	-23	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/25/2024 22:08	50103	HARR_T3	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/25/2024 22:08	63302	GREE_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
4/25/2024 22:08	63301	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:08	57403	SPAN_T1	22	26	4	0.23	0.24	0.01	-0.09	-0.07	0	0	0	0	0	0
4/25/2024 22:08	45501	DERR_T2	0	1	1	0	0.3	0.3	-1.22	-1.28	6	6	0	5400	5400	0
4/25/2024 22:08	50105	HARR_T3	6	0	-6	5.83	6.02	0.19	0	0	0	0	0	0	0	0
4/25/2024 22:08	58402	MORO_T1	0	0	0	0	0	0	-0.48	-0.51	2	2	0	1500	1500	0
4/25/2024 22:08	53501	EVIL_T2	2	5	3	0.8	0.78	-0.02	0	0	0	0	0	0	0	0
4/25/2024 22:08	63305	GREE_T1	8	16	8	0.19	0.26	0.07	0	0	0	0	0	0	0	0
4/25/2024 22:08	66505	SMAN_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 22:08	40101	HUNT_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
4/25/2024 22:08	50201	HARR_T3	1	1	0	0.2	0.1	-0.1	0.19	0.19	0	0	0	0	0	0
4/25/2024 22:08	20403	ASHF_T2	34	37	3	0.79	0.79	0	0.16	0.16	0	0	0	0	0	0
4/25/2024 22:08	15001	BLMO_T1	4	3	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/25/2024 22:08	13704	SCHN_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
4/25/2024 22:08	12602	MACA_T1	0	0	0	0	0	0	-0.37	-0.4	0	0	0	0	0	0
4/25/2024 22:08	59101	WALK_T2	0	0	0	0	0	0	1.15	1.16	0	0	0	0	0	0
4/25/2024 22:08	40702	FFLD_T1	77	101	24	0.2	0.25	0.05	-0.89	-0.88	1	1	0	1200	1200	0
4/25/2024 22:08	46001	BERW_T1	0	0	0	0	0	0	0.96	0.94	0	0	0	0	0	0
4/25/2024 22:08	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 22:08	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:08	42902	MIDD_T2	0	0	0	0	0	0	-1.24	-1.17	1	1	0	600	600	0
4/25/2024 22:08	46203	DANV_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
4/25/2024 22:08	61102	BERK_T5	0	0	0	0	0	0	0.68	0.73	1	1	0	300	300	0
4/25/2024 22:08	46801	HEPB_T2	0	2	2	0	0.15	0.15	0.48	0.46	0	0	0	0	0	0
4/25/2024 22:08	65503	MOJO_T2	18	1	-17	0.25	0	-0.25	0	0	0	0	0	0	0	0
4/25/2024 22:08	66504	SMAN_T2	0	0	0	0	0	0	-0.73	-0.71	0	0	0	0	0	0
4/25/2024 22:08	20401	ASHF_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:08	40701	FFLD_T1	28	27	-1	0.36	0.47	0.11	0	0	0	0	0	0	0	0
4/25/2024 22:08	63304	GREE_T1	0	15	15	0	0.11	0.11	0	0	0	0	0	0	0	0
4/25/2024 22:08	57401	SPAN_T1	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/25/2024 22:08	42701	AUGU_T1	0	1	1	0	0.7	0.7	0	0	2	4	2	1200	3600	2400
4/25/2024 22:08	65502	MOJO_T2	0	0	0	0	0	0	-1.23	-1.23	0	0	0	0	0	0
4/25/2024 22:08	42503	ALTA_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
4/25/2024 22:08	45602	WOOL_T1	2	2	0	0.35	0.5	0.15	0.33	0.35	0	0	0	0	0	0
4/25/2024 22:08	50202	HARR_T3	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/25/2024 22:08	40703	FFLD_T1	4	4	0	0.23	0.38	0.15	0	0	0	0	0	0	0	0
4/25/2024 22:08	60102	COCA_T1	0	0	0	0	0	0	0.36	0.3	1	1	0	600	600	0
4/25/2024 22:08	53502	EVIL_T2	0	0	0	0	0	0	0.54	0.48	0	0	0	0	0	0
4/25/2024 22:08	42501	ALTA_T2	0	0	0	0	0	0	0.06	0.04	1	1	0	600	600	0
4/25/2024 22:09	46001	BERW_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
4/25/2024 22:09	43105	SMIL_T2	4	21	17	0.1	0.25	0.15	0	0	0	0	0	0	0	0
4/25/2024 22:09	42701	AUGU_T1	0	1	1	0	0.7	0.7	0	0	1	2	1	600	1800	1200
4/25/2024 22:09	43102	SMIL_T2	7	8	1	0.83	1.04	0.21	-1	-1	1	1	0	600	600	0
4/25/2024 22:09	43103	SMIL_T2	21	22	1	0.73	0.99	0.26	0	0	0	0	0	0	0	0
4/25/2024 22:09	43202	MVIL_T2	170	178	8	0.68	0.93	0.25	-0.78	-0.78	0	0	0	0	0	0
4/25/2024 22:09	20601	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:09	66303	MCGO_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
4/25/2024 22:09	46301	ROHR_T1	169	278	109	0.26	0.39	0.13	0.16	0.16	0	0	0	0	0	0
4/25/2024 22:09	40101	HUNT_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
4/25/2024 22:09	43201	MVIL_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/25/2024 22:09	10901	COOP_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
4/25/2024 22:09	47001	HUGH_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
4/25/2024 22:09	50506	MECH_T1	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
4/25/2024 22:09	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:09	66302	MCGO_T2	0	0	0	0	0	0	-1.48	-1.61	0	0	0	0	0	0
4/25/2024 22:09	53901	HALI_T2	1	0	-1	0.5	0	-0.5	-0.46	-0.48	0	0	0	0	0	0
4/25/2024 22:09	50502	MECH_T1	1	1	0	2.9	2.1	-0.8	0	0	0	0	0	0	0	0
4/25/2024 22:09	50501	MECH_T1	4	4	0	1.65	0.9	-0.75	0	0	0	0	0	0	0	0
4/25/2024 22:09	46206	DANV_T2	0	0	0	0	0	0	2.32	2.3	1	1	0	1200	1200	0
4/25/2024 22:09	46302	ROHR_T1	13	115	102	0.91	0.27	-0.64	0	0	0	0	0	0	0	0
4/25/2024 22:09	53903	HALI_T2	2	2	0	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
4/25/2024 22:09	50504	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:09	20603	GRWO_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
4/25/2024 22:09	59003	MIFF_T1	1	1	0	1.3	1.4	0.1	0.46	0.82	0	0	0	0	0	0
4/25/2024 22:09	10903	COOP_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
4/25/2024 22:09	53902	HALI_T2	1	1	0	5.5	4.9	-0.6	0	0	0	0	0	0	0	0
4/25/2024 22:10	43302	WATS_T2	4	4	0	0.68	0.88	0.2	0	0	0	0	0	0	0	0
4/25/2024 22:10	64101	REFR_T1	0	0	0	0	0	0	-0.83	-0.9	0	0	0	0	0	0
4/25/2024 22:10	43201	MVIL_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/25/2024 22:10	42802	SELI_T1	1	1	0	0.8	0.6	-0.2	-1.08	-0.07	0	0	0	0	0	0
4/25/2024 22:10	43304	WATS_T2	0	0	0	0	0	0	-1.4	-1.54	0	0	0	0	0	0
4/25/2024 22:10	44505	HAMI_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
4/25/2024 22:10	64503	LAVI_T1	0	0	0	0	0	0	-0.14	-0.32	1	1	0	1200	1200	0
4/25/2024 22:10	43102	SMIL_T2	7	8	1	0.83	1.04	0.21	0	0	0	0	0	0	0	0
4/25/2024 22:10	54504	ENOL_T2	0	0	0	0	0	0	-1.04	-1.07	1	1	0	600	600	0
4/25/2024 22:10	40101	HUNT_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
4/25/2024 22:10	43101	SMIL_T2	0	0	0	0	0	0	-0.89	-0.91	0	0	0	0	0	0
4/25/2024 22:10	44301	BEAV_T2	0	0	0	0	0	0	0.5	0.66	1	1	0	600	600	0
4/25/2024 22:10	63304	GREE_T1	0	15	15	0	0.11	0.11	-0.59	-0.63	0	0	0	0	0	0
4/25/2024 22:10	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:10	44502	HAMI_T2	1	1	0	3.6	3.8	0.2	0	0	0	0	0	0	0	0
4/25/2024 22:10	49804	UNIV_T1	2	2	0	0.3	0.65	0.35	0.37	0.31	0	0	0	0	0	0
4/25/2024 22:10	43801	SWIL_T1	2	2	0	3.3	3.3	0	0	0	0	0	0	0	0	0
4/25/2024 22:10	41802	GOCI_T2	19	13	-6	0.39	0.15	-0.24	0	0	0	0	0	0	0	0
4/25/2024 22:10	62102	ELAN_T1	0	0	0	0	0	0	0.52	0.63	0	0	0	0	0	0
4/25/2024 22:10	43202	MVIL_T2	170	178	8	0.68	0.93	0.25	-0.78	-0.78	0	0	0	0	0	0
4/25/2024 22:10	43802	SWIL_T1	0	0	0	0	0	0	-0.36	-0.37	1	1	0	600	600	0
4/25/2024 22:10	63301	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:10	45702	LIND_T2	1	1	0	0.7	0.9	0.2	-0.63	-0.64	0	0	0	0	0	0
4/25/2024 22:10	63305	GREE_T1	8	16	8	0.19	0.26	0.07	0	0	0	0	0	0	0	0
4/25/2024 22:10	40601	PIGR_T1	76	32	-44	0.17	0.14	-0.03	-0.21	-0.24	0	0	0	0	0	0
4/25/2024 22:10	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2024 22:10	61102	BERK_T5	0	0	0	0	0	0	0.68	0.73	1	1	0	300	300	0
4/25/2024 22:10	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:10	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/25/2024 22:10	54505	ENOL_T2	1	1	0	1.2	0.5	-0.7	-1.4	-1.4	1	1	0	600	600	0
4/25/2024 22:10	43103	SMIL_T2	21	22	1	0.73	0.99	0.26	0	0	0	0	0	0	0	0
4/25/2024 22:10	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:10	42902	MIDD_T2	0	0	0	0	0	0	-1.17	-1.23	1	1	0	600	600	0
4/25/2024 22:10	52501	PROG_T1	0	0	0	0	0	0	0.24	0.26	1	1	0	300	300	0
4/25/2024 22:10	54501	ENOL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:10	57004	WHHI_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
4/25/2024 22:10	43105	SMIL_T2	4	21	17	0.1	0.25	0.15	0	0	0	0	0	0	0	0
4/25/2024 22:10	46901	MNTG_T2	0	0	0	0	0	0	0.11	0.04	1	1	0	1200	1200	0
4/25/2024 22:10	41801	GOCI_T2	145	101	-44	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
4/25/2024 22:10	54502	ENOL_T2	7	1	-6	0.24	0.5	0.26	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/25/2024 22:11	47401	PENS_T1	0	1	1	0	0.2	0.2	0.64	0.59	0	0	0	0	0	0
4/25/2024 22:11	15204	SFAR_T2	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
4/25/2024 22:11	52006	LING_T2	3	3	0	0.93	1.13	0.2	0	0	0	0	0	0	0	0
4/25/2024 22:11	42201	SHEN_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
4/25/2024 22:11	52002	LING_T2	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
4/25/2024 22:11	52004	LING_T2	0	1	1	0	0.1	0.1	0.08	0.09	0	0	0	0	0	0
4/25/2024 22:11	46302	ROHR_T1	13	115	102	0.91	0.27	-0.64	0.13	0.1	0	0	0	0	0	0
4/25/2024 22:11	51202	MTON_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
4/25/2024 22:11	46503	LOHA_T1	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
4/25/2024 22:11	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
4/25/2024 22:11	45501	DERR_T2	0	1	1	0	0.3	0.3	-0.43	-0.35	2	2	0	1800	1800	0
4/25/2024 22:11	56501	ROCK_T2	2	0	-2	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
4/25/2024 22:11	46801	HEPB_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/25/2024 22:11	46504	LOHA_T1	2	50	48	0.8	0.29	-0.51	0	0	0	0	0	0	0	0
4/25/2024 22:11	56802	BENV_T2	322	1	-321	0.26	1.3	1.04	-1.44	-1.47	0	0	0	0	0	0
4/25/2024 22:11	46803	HEPB_T2	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
4/25/2024 22:11	46301	ROHR_T1	169	278	109	0.26	0.39	0.13	0	0	0	0	0	0	0	0
4/25/2024 22:11	51302	WIND_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
4/25/2024 22:11	66505	SMAN_T2	3	0	-3	0.2	0	-0.2	-0.38	-0.42	1	1	0	900	900	0
4/25/2024 22:11	46506	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:12	53902	HALI_T2	1	1	0	5.5	4.9	-0.6	-0.29	-0.32	0	0	0	0	0	0
4/25/2024 22:12	51305	WIND_T1	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
4/25/2024 22:12	55002	NEWP_T1	6	6	0	1.5	0.87	-0.63	-0.29	-0.3	0	0	0	0	0	0
4/25/2024 22:12	46504	LOHA_T1	2	50	48	0.8	0.29	-0.51	0	0	0	0	0	0	0	0
4/25/2024 22:12	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:12	58402	MORO_T1	0	0	0	0	0	0	-0.48	-0.51	2	2	0	1500	1500	0
4/25/2024 22:12	59003	MIFF_T1	1	1	0	1.3	1.4	0.1	0.46	0.82	0	0	0	0	0	0
4/25/2024 22:12	42902	MIDD_T2	0	0	0	0	0	0	-1.17	-1.23	1	1	0	600	600	0
4/25/2024 22:12	51304	WIND_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
4/25/2024 22:12	58401	MORO_T1	0	0	0	0	0	0	-1.34	-1.32	1	1	0	600	600	0
4/25/2024 22:12	41902	REED_T1	0	0	0	0	0	0	1.98	1.95	0	0	0	0	0	0
4/25/2024 22:12	46506	LOHA_T1	0	1	1	0	0.1	0.1	-1.02	-1	0	0	0	0	0	0
4/25/2024 22:12	53903	HALI_T2	2	2	0	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
4/25/2024 22:12	53901	HALI_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/25/2024 22:13	58003	WCAR_T1	227	64	-163	0.43	0.31	-0.12	0.53	0.51	0	0	0	0	0	0
4/25/2024 22:13	58401	MORO_T1	0	0	0	0	0	0	-1.34	-1.32	1	1	0	600	600	0
4/25/2024 22:13	56802	BENV_T2	322	1	-321	0.26	1.3	1.04	-2.88	-2.93	0	0	0	0	0	0
4/25/2024 22:13	57401	SPAN_T1	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
4/25/2024 22:13	58001	WCAR_T1	85	10	-75	0.32	0.81	0.49	0	0	0	0	0	0	0	0
4/25/2024 22:13	66504	SMAN_T2	0	0	0	0	0	0	-0.73	-0.71	0	0	0	0	0	0
4/25/2024 22:13	57403	SPAN_T1	22	26	4	0.23	0.24	0.01	-0.09	-0.07	0	0	0	0	0	0
4/25/2024 22:13	66505	SMAN_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/25/2024 22:14	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
4/25/2024 22:14	47401	PENS_T1	0	1	1	0	0.2	0.2	0.64	0.59	0	0	0	0	0	0
4/25/2024 22:14	49804	UNIV_T1	2	2	0	0.3	0.65	0.35	0.37	0.31	0	0	0	0	0	0
4/25/2024 22:15	54503	ENOL_T2	0	0	0	0	0	0	-1.31	-1.4	1	1	0	600	600	0
4/25/2024 22:15	62103	ELAN_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:15	44301	BEAV_T2	0	0	0	0	0	0	0.5	0.66	1	1	0	600	600	0
4/25/2024 22:15	50501	MECH_T1	4	4	0	0.9	1	0.1	-0.23	-0.24	0	0	0	0	0	0
4/25/2024 22:15	43102	SMIL_T2	8	8	0	0.91	1.04	0.13	-1	-1	1	1	0	600	600	0
4/25/2024 22:15	54502	ENOL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/25/2024 22:15	43105	SMIL_T2	19	21	2	0.18	0.24	0.06	0	0	0	0	0	0	0	0
4/25/2024 22:15	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:15	54505	ENOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:15	50502	MECH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
4/25/2024 22:15	62106	ELAN_T1	0	0	0	0	0	0	-0.04	-0.01	0	0	0	0	0	0
4/25/2024 22:15	43103	SMIL_T2	22	22	0	0.85	0.98	0.13	0	0	0	0	0	0	0	0
4/25/2024 22:16	57004	WHHI_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
4/25/2024 22:16	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/25/2024 22:16	41001	LAUR_T2	0	57	57	0	0.19	0.19	0	0	0	0	0	0	0	0
4/25/2024 22:16	42802	SELI_T1	1	1	0	0.6	0.1	-0.5	-1.08	-0.07	0	0	0	0	0	0
4/25/2024 22:16	13905	SEID_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/25/2024 22:16	54601	SUMM_T2	5	4	-1	0.32	0.25	-0.07	-2.04	-2.02	2	2	0	2100	2100	0
4/25/2024 22:16	41002	LAUR_T2	1	28	27	2.1	0.23	-1.87	0.01	-0.02	0	0	0	0	0	0
4/25/2024 22:17	59101	WALK_T2	0	0	0	0	0	0	1.15	1.16	0	0	0	0	0	0
4/25/2024 22:18	40101	HUNT_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
4/25/2024 22:35	62604	ENGL_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:35	62601	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:35	62606	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/25/2024 22:35	62607	ENGL_T1	44	0	-44	0.11	0	-0.11	0	0	0	0	0	0	0	0
4/25/2024 22:35	62605	ENGL_T1	26	0	-26	0.13	0	-0.13	-0.92	-0.93	0	0	0	0	0	0
4/25/2024 22:38	47101	MARL_T1	0	0	0	0	0	0	-0.3	-0.38	0	0	0	0	0	0
4/25/2024 22:42	46102	MACI_T1	2	1	-1	0.1	0.1	0	0.27	0.27	0	0	0	0	0	0
4/25/2024 22:43	23001	SAUO_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
4/25/2024 22:43	11801	FRAN_T2	0	0	0	0	0	0	-0.12	-0.16	0	0	0	0	0	0
4/25/2024 23:08	41504	FAIR_T2	0	0	0	0	0	0	-1.07	-1.05	0	0	0	0	0	0
4/25/2024 23:08	41502	FAIR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/25/2024 23:10	11801	FRAN_T2	0	0	0	0	0	0	-0.06	-0.17	0	0	0	0	0	0
4/25/2024 23:51	47101	MARL_T1	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
4/26/2024 3:09	13801	SALI_T1	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
4/26/2024 6:54	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 7:04	67703	WERN_T2	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
4/26/2024 7:07	15404	WALL_T1	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
4/26/2024 7:08	29402	BELT_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
4/26/2024 7:08	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/26/2024 7:12	11103	EGYP_T1	0	0	0	0	0	0	0.34	0.37	0	0	0	0	0	0
4/26/2024 7:13	15404	WALL_T1	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
4/26/2024 7:13	11103	EGYP_T1	0	0	0	0	0	0	0.34	0.37	0	0	0	0	0	0
4/26/2024 7:18	65802	RTWN_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
4/26/2024 7:19	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 7:21	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/26/2024 7:21	29402	BELT_T1	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
4/26/2024 7:24	40504	CRES_T1	0	0	0	0	0	0	-1.79	-1.82	0	0	0	0	0	0
4/26/2024 7:24	40505	CRES_T1	3	3	0	4.47	5.43	0.96	0	0	0	0	0	0	0	0
4/26/2024 7:25	45501	DERR_T2	0	0	0	0	0	0	0.23	0.17	2	2	0	1800	1800	0
4/26/2024 7:26	46203	DANV_T2	21	105	84	0.22	0.4	0.18	-2.37	-2.35	0	0	0	0	0	0
4/26/2024 7:28	46203	DANV_T2	21	105	84	0.22	0.4	0.18	-2.37	-2.35	0	0	0	0	0	0
4/26/2024 7:29	61503	EPET_T1	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
4/26/2024 7:31	64901	MILL_T1	219	185	-34	0.39	0.33	-0.06	0	0	0	0	0	0	0	0
4/26/2024 7:31	64904	MILL_T1	45	28	-17	0.24	0.25	0.01	0.56	0.6	0	0	0	0	0	0
4/26/2024 7:34	64904	MILL_T1	45	28	-17	0.24	0.25	0.01	0.56	0.6	0	0	0	0	0	0
4/26/2024 7:34	64901	MILL_T1	219	185	-34	0.39	0.33	-0.06	0	0	0	0	0	0	0	0
4/26/2024 7:35	64904	MILL_T1	45	28	-17	0.24	0.25	0.01	0.56	0.6	0	0	0	0	0	0
4/26/2024 7:35	64901	MILL_T1	219	185	-34	0.39	0.33	-0.06	0	0	0	0	0	0	0	0
4/26/2024 7:37	56802	BENV_T2	3	82	79	0.37	0.18	-0.19	-0.8	-0.77	0	0	0	0	0	0
4/26/2024 7:37	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 7:38	56802	BENV_T2	3	82	79	0.37	0.18	-0.19	-0.77	-0.75	0	0	0	0	0	0
4/26/2024 7:41	41802	GOCI_T2	0	10	10	0	0.11	0.11	0	0	0	0	0	0	0	0
4/26/2024 7:41	41801	GOCI_T2	0	21	21	0	0.17	0.17	0	0	0	0	0	0	0	0
4/26/2024 7:41	62102	ELAN_T1	0	0	0	0	0	0	0.63	0.55	0	0	0	0	0	0
4/26/2024 7:42	56802	BENV_T2	3	82	79	0.37	0.18	-0.19	-0.77	-0.75	0	0	0	0	0	0
4/26/2024 7:45	41802	GOCI_T2	0	12	12	0	0.12	0.12	0	0	0	0	0	0	0	0
4/26/2024 7:45	41801	GOCI_T2	0	43	43	0	0.19	0.19	0	0	0	0	0	0	0	0
4/26/2024 7:46	12002	HATF_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
4/26/2024 7:46	12006	HATF_T1	0	0	0	0	0	0	1.32	1.4	0	0	0	0	0	0
4/26/2024 7:46	12005	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 7:48	56501	ROCK_T2	0	2	2	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 7:49	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 7:50	56501	ROCK_T2	0	2	2	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 7:51	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 7:52	56501	ROCK_T2	0	2	2	0	0	0	-0.02	-0.02	0	0	0	0	0	0
4/26/2024 7:52	43202	MVIL_T2	0	17	17	0	0.19	0.19	-0.66	-0.64	0	0	0	0	0	0
4/26/2024 7:52	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 7:52	56802	BENV_T2	79	453	374	0.17	0.45	0.28	-0.77	-0.75	0	0	0	0	0	0
4/26/2024 7:57	53601	DALM_T2	1	1	0	0.9	1.1	0.2	-0.13	-0.05	1	1	0	900	900	0
4/26/2024 7:57	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/26/2024 7:57	46203	DANV_T2	105	99	-6	0.39	0.42	0.03	-2.37	0.18	0	0	0	0	0	0
4/26/2024 7:57	56501	ROCK_T2	0	2	2	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 7:57	11603	CEAL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 7:58	67303	WYOM_T2	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
4/26/2024 7:58	43201	MVIL_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
4/26/2024 7:58	43304	WATS_T2	0	0	0	0	0	0	-0.01	0.02	1	1	0	600	600	0
4/26/2024 7:58	67502	WEWI_T2	0	1	1	0	0	0	-0.14	-0.11	0	0	0	0	0	0
4/26/2024 7:58	67402	WAKE_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
4/26/2024 7:58	43202	MVIL_T2	0	17	17	0	0.19	0.19	0	0	0	0	0	0	0	0
4/26/2024 7:58	67703	WERN_T2	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
4/26/2024 7:59	47401	PENS_T1	0	0	0	0	0	0	0.73	0.79	0	0	0	0	0	0
4/26/2024 7:59	45602	WOOL_T1	0	2	2	0	0.15	0.15	0.54	0.5	0	0	0	0	0	0
4/26/2024 7:59	44301	BEAV_T2	0	0	0	0	0	0	0.99	1.13	1	1	0	600	600	0
4/26/2024 7:59	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 7:59	47403	PENS_T1	1	0	-1	2.1	0	-2.1	0	0	0	0	0	0	0	0
4/26/2024 7:59	40101	HUNT_T2	5	6	1	0.46	0.1	-0.36	-0.17	-0.17	0	0	0	0	0	0
4/26/2024 8:00	40101	HUNT_T2	3	7	4	0.4	0	-0.4	-0.35	-0.34	0	0	0	0	0	0
4/26/2024 8:01	64702	LITI_T2	0	0	0	0	0	0	-0.78	-0.73	0	0	0	0	0	0
4/26/2024 8:04	67605	WARW_T1	12	27	15	0.41	0.47	0.06	0	0	0	0	0	0	0	0
4/26/2024 8:04	67604	WARW_T1	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
4/26/2024 8:04	64702	LITI_T2	0	0	0	0	0	0	-0.78	-0.73	0	0	0	0	0	0
4/26/2024 8:07	56802	BENV_T2	41	581	540	0.17	0.43	0.26	-0.75	-0.66	0	0	0	0	0	0
4/26/2024 8:08	56802	BENV_T2	41	581	540	0.17	0.43	0.26	-1.32	-1.33	0	0	0	0	0	0
4/26/2024 8:08	58006	WCAR_T2	0	0	0	0	0	0	0.38	0.32	0	0	0	0	0	0
4/26/2024 8:08	58002	WCAR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 8:09	56801	BENV_T1	15	17	2	1.24	0.86	-0.38	-0.11	-0.14	1	0	-1	600	0	-600
4/26/2024 8:09	56802	BENV_T2	41	581	540	0.17	0.43	0.26	-1.32	-1.33	0	0	0	0	0	0
4/26/2024 8:09	56803	BENV_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/26/2024 8:10	56802	BENV_T2	41	581	540	0.17	0.43	0.26	-1.32	-1.33	0	0	0	0	0	0
4/26/2024 8:11	56802	BENV_T2	41	581	540	0.17	0.43	0.26	-0.66	-0.66	0	0	0	0	0	0
4/26/2024 8:12	45802	HEGI_T2	3	11	8	0.17	0.49	0.32	1.42	1.41	0	0	0	0	0	0
4/26/2024 8:13	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/26/2024 8:14	56802	BENV_T2	41	581	540	0.17	0.43	0.26	-0.66	-0.66	0	0	0	0	0	0
4/26/2024 8:15	45802	HEGI_T2	11	9	-2	0.45	0.4	-0.05	1.42	1.41	0	0	0	0	0	0
4/26/2024 8:19	14401	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 8:19	64101	REFR_T1	0	0	0	0	0	0	-1.22	-1.25	0	0	0	0	0	0
4/26/2024 8:19	14404	SSLA_T1	1	2	1	6	3.2	-2.8	-0.02	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 8:20	14401	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 8:20	64101	REFR_T1	0	0	0	0	0	0	-1.84	-1.88	0	0	0	0	0	0
4/26/2024 8:20	14404	SSLA_T1	1	2	1	6	3.2	-2.8	-0.02	-0.01	0	0	0	0	0	0
4/26/2024 8:21	13901	SEID_T1	0	0	0	0	0	0	0.23	0.29	0	0	0	0	0	0
4/26/2024 8:21	13904	SEID_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 8:22	60605	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 8:26	51108	CARL_T1	1	1	0	0.6	0.3	-0.3	-0.8	-0.57	1	1	0	600	600	0
4/26/2024 8:26	51102	CARL_T1	94	49	-45	0.22	0.16	-0.06	0	0	0	0	0	0	0	0
4/26/2024 8:27	11507	FREE_T2	0	0	0	0	0	0	1.47	1.44	0	0	0	0	0	0
4/26/2024 8:27	41301	FISH_T1	2	3	1	2.45	1.87	-0.58	-0.03	-0.04	0	0	0	0	0	0
4/26/2024 8:29	41502	FAIR_T2	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
4/26/2024 8:34	13503	MCMI_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 8:38	29402	BELT_T1	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
4/26/2024 8:38	16302	ALPA_T2	4	4	0	0.18	0.3	0.12	-0.57	-0.59	0	0	0	0	0	0
4/26/2024 8:39	16302	ALPA_T2	4	4	0	0.18	0.3	0.12	-1.17	-1.26	0	0	0	0	0	0
4/26/2024 8:39	10701	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 8:39	10702	CATA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/26/2024 8:39	10705	CATA_T2	0	1	1	0	0	0	-1.01	-1.01	1	1	0	900	900	0
4/26/2024 8:40	16302	ALPA_T2	4	4	0	0.18	0.3	0.12	-0.59	-0.63	0	0	0	0	0	0
4/26/2024 8:40	14603	SWHI_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/26/2024 8:40	14601	SWHI_T1	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
4/26/2024 8:40	61702	ELIZ_T2	2	7	5	0.65	0.41	-0.24	-1.65	-1.62	1	1	0	300	300	0
4/26/2024 8:41	16302	ALPA_T2	4	4	0	0.18	0.3	0.12	-0.59	-0.63	0	0	0	0	0	0
4/26/2024 8:42	10705	CATA_T2	0	1	1	0	0	0	-1.01	-1.01	1	1	0	900	900	0
4/26/2024 8:42	10702	CATA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/26/2024 8:42	15001	BLMO_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
4/26/2024 8:42	10701	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 8:44	41301	FISH_T1	2	3	1	2.4	1.87	-0.53	-0.04	-0.04	0	0	0	0	0	0
4/26/2024 8:44	29402	BELT_T1	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
4/26/2024 8:48	65503	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 8:48	65502	MOJO_T2	0	1	1	0	0.1	0.1	-0.36	-0.45	0	0	0	0	0	0
4/26/2024 8:51	20401	ASHF_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/26/2024 8:51	20403	ASHF_T2	2	24	22	0.2	0.3	0.1	0.09	0.07	0	0	0	0	0	0
4/26/2024 8:52	54001	SDLE_T1	8	21	13	0.91	0.76	-0.15	0	0	0	0	0	0	0	0
4/26/2024 8:53	15001	BLMO_T1	5	1	-4	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
4/26/2024 8:54	15001	BLMO_T1	5	1	-4	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
4/26/2024 8:55	15001	BLMO_T1	5	1	-4	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
4/26/2024 8:56	20403	ASHF_T2	2	24	22	0.2	0.3	0.1	0.07	0.04	0	0	0	0	0	0
4/26/2024 8:56	20401	ASHF_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/26/2024 8:57	45501	DERR_T2	0	1	1	0	0.3	0.3	0.15	0.16	2	2	0	1800	1800	0
4/26/2024 9:00	13501	MCMI_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
4/26/2024 9:02	12502	MITR_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
4/26/2024 9:02	45701	LIND_T2	0	0	0	0	0	0	-0.96	-0.97	0	0	0	0	0	0
4/26/2024 9:02	41901	REED_T1	7	1	-6	0.14	0.2	0.06	0	0	0	0	0	0	0	0
4/26/2024 9:02	41902	REED_T1	3	0	-3	0.97	0	-0.97	1.14	1.14	0	0	0	0	0	0
4/26/2024 9:02	45702	LIND_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/26/2024 9:02	12505	MITR_T2	0	0	0	0	0	0	1.26	1.38	0	0	0	0	0	0
4/26/2024 9:03	41901	REED_T1	7	1	-6	0.14	0.2	0.06	0	0	0	0	0	0	0	0
4/26/2024 9:03	41902	REED_T1	3	0	-3	0.97	0	-0.97	1.14	1.14	0	0	0	0	0	0
4/26/2024 9:03	26401	INOR_T1	1	2	1	7.3	4.15	-3.15	0.95	0.93	0	0	0	0	0	0
4/26/2024 9:03	45702	LIND_T2	0	2	2	0	0.15	0.15	-0.5	-0.46	0	0	0	0	0	0
4/26/2024 9:04	13501	MCMI_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
4/26/2024 9:06	14401	SSLA_T1	1	1	0	2	0.4	-1.6	0	0	0	0	0	0	0	0
4/26/2024 9:06	14403	SSLA_T1	0	0	0	0	0	0	0.75	0.68	0	0	0	0	0	0
4/26/2024 9:06	14404	SSLA_T1	3	3	0	2.23	2.17	-0.06	0	0	0	0	0	0	0	0
4/26/2024 9:07	20401	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 9:07	26001	WDAM_T1	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
4/26/2024 9:07	20403	ASHF_T2	24	22	-2	0.29	0.31	0.02	0.07	0.04	0	0	0	0	0	0
4/26/2024 9:08	67605	WARW_T1	15	21	6	0.57	0.53	-0.04	-1	-0.96	0	0	0	0	0	0
4/26/2024 9:09	14401	SSLA_T1	1	1	0	2	0.4	-1.6	0	0	0	0	0	0	0	0
4/26/2024 9:09	14403	SSLA_T1	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
4/26/2024 9:09	51303	WIND_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/26/2024 9:09	51305	WIND_T1	1	3	2	0.2	0.37	0.17	0	0	0	0	0	0	0	0
4/26/2024 9:09	14404	SSLA_T1	3	3	0	2.23	2.17	-0.06	0	0	0	0	0	0	0	0
4/26/2024 9:09	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
4/26/2024 9:09	51301	WIND_T1	4	5	1	0.3	0.52	0.22	0	0	0	0	0	0	0	0
4/26/2024 9:10	67605	WARW_T1	15	21	6	0.57	0.53	-0.04	-1	-0.96	0	0	0	0	0	0
4/26/2024 9:15	67605	WARW_T1	19	21	2	0.49	0.57	0.08	-1	-0.96	0	0	0	0	0	0
4/26/2024 9:16	45702	LIND_T2	1	1	0	0.1	0.2	0.1	-0.46	-0.47	0	0	0	0	0	0
4/26/2024 9:17	51402	LYKE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/26/2024 9:17	51401	LYKE_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
4/26/2024 9:17	45702	LIND_T2	1	1	0	0.1	0.2	0.1	-0.46	-0.47	0	0	0	0	0	0
4/26/2024 9:19	45702	LIND_T2	1	1	0	0.1	0.2	0.1	-0.46	-0.47	0	0	0	0	0	0
4/26/2024 9:20	43201	MVIL_T2	0	1	1	0	0.2	0.2	-0.39	-0.38	0	0	0	0	0	0
4/26/2024 9:20	43202	MVIL_T2	70	90	20	0.59	0.52	-0.07	0	0	0	0	0	0	0	0
4/26/2024 9:22	45902	AUBU_T1	1	1	0	0.7	1.3	0.6	-0.99	-1.03	2	2	0	1200	1200	0
4/26/2024 9:23	60901	DONG_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/26/2024 9:23	60904	DONG_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/26/2024 9:23	45901	AUBU_T1	0	0	0	0	0	0	1.71	1.72	0	0	0	0	0	0
4/26/2024 9:23	45902	AUBU_T1	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
4/26/2024 9:23	60903	DONG_T2	0	0	0	0	0	0	0.67	0.69	1	1	0	600	600	0
4/26/2024 9:23	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
4/26/2024 9:24	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
4/26/2024 9:24	45902	AUBU_T1	1	1	0	0.7	1.3	0.6	-0.52	-0.5	1	1	0	600	600	0
4/26/2024 9:25	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
4/26/2024 9:25	45902	AUBU_T1	1	1	0	0.7	1.3	0.6	-1.03	-1.01	2	2	0	1200	1200	0
4/26/2024 9:26	45902	AUBU_T1	1	1	0	0.7	1.3	0.6	-0.52	-0.5	1	1	0	600	600	0
4/26/2024 9:27	67605	WARW_T1	19	21	2	0.49	0.57	0.08	-0.96	-0.94	0	0	0	0	0	0
4/26/2024 9:28	45902	AUBU_T1	1	1	0	0.7	1.3	0.6	-0.52	-0.5	1	1	0	600	600	0
4/26/2024 9:30	45902	AUBU_T1	1	1	0	1.2	1.4	0.2	-0.52	-0.5	1	1	0	600	600	0
4/26/2024 9:32	13302	ORVI_T2	1	2	1	0.5	0.45	-0.05	1.01	0.97	0	0	0	0	0	0
4/26/2024 9:34	58402	MORO_T1	0	0	0	0	0	0	-0.43	-0.5	4	4	0	3000	3000	0
4/26/2024 9:36	56501	ROCK_T2	2	2	0	0.15	0.2	0.05	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 9:36	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 9:37	58401	MORO_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	600	600	0
4/26/2024 9:38	45902	AUBU_T1	1	1	0	1.2	1.4	0.2	-0.5	-0.47	1	1	0	600	600	0
4/26/2024 9:40	41504	FAIR_T2	0	0	0	0	0	0	-1.01	-0.88	0	0	0	0	0	0
4/26/2024 9:41	45902	AUBU_T1	1	1	0	1.2	1.4	0.2	-0.5	-0.47	1	1	0	600	600	0
4/26/2024 9:43	45902	AUBU_T1	1	1	0	1.2	1.4	0.2	-0.5	-0.47	1	1	0	600	600	0
4/26/2024 9:46	45902	AUBU_T1	1	1	0	1.3	1.6	0.3	-0.5	-0.47	1	1	0	600	600	0
4/26/2024 9:47	47402	PENS_T1	2	2	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
4/26/2024 9:47	47403	PENS_T1	2	4	2	1.3	0.3	-1	0	0	0	0	0	0	0	0
4/26/2024 9:47	47401	PENS_T1	4	5	1	0.68	0.84	0.16	0.81	0.86	0	0	0	0	0	0
4/26/2024 9:49	43202	MVIL_T2	89	86	-3	0.52	0.38	-0.14	0	0	0	0	0	0	0	0
4/26/2024 9:49	43201	MVIL_T2	1	1	0	0.2	0.4	0.2	-0.37	-0.27	0	0	0	0	0	0
4/26/2024 9:50	47402	PENS_T1	2	2	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
4/26/2024 9:50	47401	PENS_T1	4	5	1	0.68	0.84	0.16	0.81	0.86	0	0	0	0	0	0
4/26/2024 9:50	47403	PENS_T1	2	4	2	1.3	0.3	-1	0	0	0	0	0	0	0	0
4/26/2024 9:51	47401	PENS_T1	4	5	1	0.68	0.84	0.16	0.81	0.86	0	0	0	0	0	0
4/26/2024 9:51	47402	PENS_T1	2	2	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
4/26/2024 9:51	45902	AUBU_T1	1	1	0	1.3	1.6	0.3	-0.5	-0.47	1	1	0	600	600	0
4/26/2024 9:51	47403	PENS_T1	2	4	2	1.3	0.3	-1	0	0	0	0	0	0	0	0
4/26/2024 9:52	20401	ASHF_T2	2	3	1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
4/26/2024 9:52	20402	ASHF_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
4/26/2024 9:52	20403	ASHF_T2	24	66	42	0.34	0.33	-0.01	0.02	0.04	0	0	0	0	0	0
4/26/2024 9:54	46002	BERW_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/26/2024 9:54	45902	AUBU_T1	1	1	0	1.3	1.6	0.3	-0.47	-0.57	1	1	0	600	600	0
4/26/2024 9:54	46004	BERW_T2	1	4	3	0.1	0.33	0.23	-0.78	-0.75	0	0	0	0	0	0
4/26/2024 9:56	45902	AUBU_T1	1	1	0	1.3	1.6	0.3	-0.47	-0.57	1	1	0	600	600	0
4/26/2024 9:56	61801	EELI_T2	0	0	0	0	0	0	-0.25	-0.21	0	0	0	0	0	0
4/26/2024 9:58	10801	CHHI_T1	3	6	3	0.27	0.45	0.18	-0.9	-0.92	1	1	0	900	900	0
4/26/2024 9:59	41801	GOCI_T2	281	279	-2	0.64	0.59	-0.05	0	0	0	0	0	0	0	0
4/26/2024 9:59	41802	GOCI_T2	2	1	-1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/26/2024 9:59	45902	AUBU_T1	1	1	0	1.3	1.6	0.3	-0.47	-0.57	1	1	0	600	600	0
4/26/2024 10:00	58003	WCAR_T1	3	1	-2	0.43	1.3	0.87	0.71	0.75	0	0	0	0	0	0
4/26/2024 10:00	40505	CRES_T1	4	4	0	3.75	3.9	0.15	0.41	0.38	0	0	0	0	0	0
4/26/2024 10:00	12505	MITR_T2	1	2	1	0.2	0.2	0	2.28	2.52	0	0	0	0	0	0
4/26/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.15	0.08	0	0	0	0	0	0
4/26/2024 10:00	40703	FFLD_T1	4	4	0	0.45	0.63	0.18	0.33	0.32	0	0	0	0	0	0
4/26/2024 10:00	57106	SPHI_T2	3	3	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:00	42902	MIDD_T2	11	16	5	0.4	0.48	0.08	0	0	0	0	0	0	0	0
4/26/2024 10:00	43202	MVIL_T2	84	62	-22	0.38	0.37	-0.01	-0.68	-0.68	0	0	0	0	0	0
4/26/2024 10:00	42002	MNVL_T2	1	2	1	3.8	1.95	-1.85	0	0	0	0	0	0	0	0
4/26/2024 10:00	59201	THOM_T1	90	98	8	0.68	0.73	0.05	0	0	0	0	0	0	0	0
4/26/2024 10:00	53501	EVIL_T2	7	8	1	0.89	0.64	-0.25	0.05	0.07	1	1	0	600	600	0
4/26/2024 10:00	67702	WERN_T2	1	2	1	0.2	0.4	0.2	-0.1	-0.05	0	0	0	0	0	0
4/26/2024 10:00	52002	LING_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/26/2024 10:00	46504	LOHA_T1	2	2	0	0.3	0.55	0.25	0	0	0	0	0	0	0	0
4/26/2024 10:00	53902	HALI_T2	3	3	0	2.17	2.33	0.16	0	0	0	0	0	0	0	0
4/26/2024 10:00	40701	FFLD_T1	74	81	7	0.5	0.63	0.13	0	0	0	0	0	0	0	0
4/26/2024 10:00	13901	SEID_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
4/26/2024 10:00	16103	BING_T2	1	1	0	0.1	1.1	1	0	0	0	0	0	0	0	0
4/26/2024 10:00	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:00	24104	EHAZ_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/26/2024 10:00	44502	HAMI_T2	2	2	0	1.3	1.35	0.05	-0.95	-0.98	0	0	0	0	0	0
4/26/2024 10:00	46004	BERW_T2	4	4	0	0.28	0.28	0	-0.78	-0.75	0	0	0	0	0	0
4/26/2024 10:00	10805	CHHI_T2	12	11	-1	1.46	2.11	0.65	-0.4	-0.53	1	1	0	600	600	0
4/26/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.6	-0.59	1	1	0	1200	1200	0
4/26/2024 10:00	14204	EALI_T2	0	0	0	0	0	0	-0.4	-0.43	0	0	0	0	0	0
4/26/2024 10:00	45602	WOOL_T1	4	6	2	0.25	0.45	0.2	0.47	0.45	0	0	0	0	0	0
4/26/2024 10:00	50103	HARR_T3	3	5	2	0.57	0.62	0.05	0	0	0	0	0	0	0	0
4/26/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.08	-0.18	0	0	0	0	0	0
4/26/2024 10:00	67303	WYOM_T2	1	1	0	0.1	0.3	0.2	-0.27	-0.26	0	0	0	0	0	0
4/26/2024 10:00	51004	NHAR_T1	6	10	4	1.22	0.91	-0.31	0	0	0	0	0	0	0	0
4/26/2024 10:00	42903	MIDD_T2	2	3	1	0.15	0.37	0.22	-0.13	-0.35	1	1	0	1200	1200	0
4/26/2024 10:00	42701	AUGU_T1	3	4	1	0.4	0.53	0.13	0	0	2	2	0	1800	1800	0
4/26/2024 10:00	54504	ENOL_T2	1	1	0	0.6	1.3	0.7	0	0	0	0	0	0	0	0
4/26/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	0.36	0.11	1	1	0	600	600	0
4/26/2024 10:00	24102	EHAZ_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 10:00	12807	MICK_T1	1	1	0	0.2	0.4	0.2	0.19	0.18	0	0	0	0	0	0
4/26/2024 10:00	14601	SWHI_T1	1	3	2	0.2	0.3	0.1	-1.03	-0.99	0	0	0	0	0	0
4/26/2024 10:00	65003	NEFF_T2	7	8	1	0.3	0.43	0.13	0	0	0	0	0	0	0	0
4/26/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.54	0.57	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 10:00	46005	BERW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/26/2024 10:00	53903	HALI_T2	6	9	3	0.68	0.78	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:00	63803	HEMP_T1	1	3	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0
4/26/2024 10:00	11102	EGYP_T1	3	3	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/26/2024 10:00	65002	NEFF_T2	2	7	5	0.9	0.47	-0.43	0	0	0	0	0	0	0	0
4/26/2024 10:00	50105	HARR_T3	6	6	0	5.68	5.88	0.2	0	0	0	0	0	0	0	0
4/26/2024 10:00	54502	ENOL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/26/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	0.42	0.36	1	1	0	600	600	0
4/26/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
4/26/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	0.01	-0.04	0	0	0	0	0	0
4/26/2024 10:00	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/26/2024 10:00	27502	WEIS_T2	0	0	0	0	0	0	0.11	-0.04	0	0	0	0	0	0
4/26/2024 10:00	10801	CHHI_T1	5	5	0	0.42	0.28	-0.14	-0.9	-0.92	1	1	0	900	900	0
4/26/2024 10:00	57104	SPHI_T2	0	1	1	0	0.2	0.2	-1.1	-1.14	1	1	0	900	900	0
4/26/2024 10:00	14602	SWHI_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
4/26/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.56	0.67	0	0	0	0	0	0
4/26/2024 10:00	40201	BEGA_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/26/2024 10:00	14603	SWHI_T1	3	6	3	0.53	0.55	0.02	0	0	0	0	0	0	0	0
4/26/2024 10:00	67703	WERN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/26/2024 10:00	40702	FFLD_T1	48	110	62	0.19	0.26	0.07	0	0	0	0	0	0	0	0
4/26/2024 10:00	16101	BING_T2	1	1	0	0.3	0.2	-0.1	0.3	0.31	0	0	0	0	0	0
4/26/2024 10:00	12502	MITR_T2	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:00	65005	NEFF_T2	2	2	0	0.6	0.85	0.25	0	0	0	0	0	0	0	0
4/26/2024 10:00	57103	SPHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 10:00	46002	BERW_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/26/2024 10:00	60501	NMAN_T2	3	6	3	4.8	2.75	-2.05	0	0	0	0	0	0	0	0
4/26/2024 10:00	53901	HALI_T2	1	1	0	0.8	0.5	-0.3	-1.07	-1.08	0	0	0	0	0	0
4/26/2024 10:00	63804	HEMP_T1	1	1	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
4/26/2024 10:00	59101	WALK_T2	3	1	-2	0.33	0.5	0.17	0	0	0	0	0	0	0	0
4/26/2024 10:00	40101	HUNT_T2	2	5	3	0.8	0.48	-0.32	-0.38	-0.55	0	0	0	0	0	0
4/26/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	0.2	0.24	0	0	0	0	0	0
4/26/2024 10:00	67203	TEHI_T1	0	0	0	0	0	0	2.4	2.52	2	2	0	1200	1200	0
4/26/2024 10:00	48303	ORWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 10:00	64201	KINZ_T1	0	0	0	0	0	0	0.03	-0.06	3	3	0	1500	1500	0
4/26/2024 10:00	59102	WALK_T2	7	11	4	0.46	0.47	0.01	0.66	0.68	0	0	0	0	0	0
4/26/2024 10:00	45902	AUBU_T1	1	1	0	1.4	1.6	0.2	-0.93	-1.14	2	2	0	1200	1200	0
4/26/2024 10:00	52004	LING_T2	0	1	1	0	0.7	0.7	0.28	0.25	0	0	0	0	0	0
4/26/2024 10:00	47002	HUGH_T2	3	4	1	0.17	0.23	0.06	-0.7	-0.71	0	0	0	0	0	0
4/26/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.45	-0.5	4	4	0	3000	3000	0
4/26/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.29	1.33	0	0	0	0	0	0
4/26/2024 10:00	62607	ENGL_T1	3	3	0	0.2	0.3	0.1	-0.88	-0.87	0	0	0	0	0	0
4/26/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
4/26/2024 10:00	54001	SDLE_T1	51	74	23	0.54	0.52	-0.02	0	0	0	0	0	0	0	0
4/26/2024 10:00	42203	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.4	-0.35	0	0	0	0	0	0
4/26/2024 10:00	67502	WEWI_T2	2	6	4	0.75	0.47	-0.28	0	0	0	0	0	0	0	0
4/26/2024 10:00	65001	NEFF_T2	5	130	125	0.16	0.16	0	-0.58	-0.63	1	1	0	1200	1200	0
4/26/2024 10:00	45501	DERR_T2	2	2	0	0.3	0.6	0.3	0.05	0.1	2	2	0	1800	1800	0
4/26/2024 10:00	63801	HEMP_T1	2	7	5	0.25	0.29	0.04	0.18	0.13	0	0	0	0	0	0
4/26/2024 10:00	58803	COCO_T1	1	1	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
4/26/2024 10:00	63306	GREE_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
4/26/2024 10:00	64204	KINZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/26/2024 10:00	65004	NEFF_T2	2	11	9	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
4/26/2024 10:00	60504	NMAN_T2	0	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0
4/26/2024 10:00	67401	WAKE_T2	4	4	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
4/26/2024 10:00	42001	MNVL_T2	22	29	7	0.32	0.28	-0.04	0	0.03	0	0	0	0	0	0
4/26/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	1.36	1.35	0	0	0	0	0	0
4/26/2024 10:00	51002	NHAR_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:00	25603	ARRO_T1	0	1	1	0	0.2	0.2	-0.16	-0.17	0	0	0	0	0	0
4/26/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
4/26/2024 10:00	44505	HAMI_T2	0	1	1	0	0.5	0.5	0.56	0.56	0	0	0	0	0	0
4/26/2024 10:00	24101	EHAZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/26/2024 10:00	64202	KINZ_T1	3	3	0	0.73	0.8	0.07	0	0	0	0	0	0	0	0
4/26/2024 10:00	17001	RIRO_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
4/26/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.69	-0.7	1	1	0	600	600	0
4/26/2024 10:00	24105	EHAZ_T1	4	4	0	7.03	6.73	-0.3	-0.69	-0.7	1	1	0	1200	1200	0
4/26/2024 10:00	56601	HAMP_T1	0	1	1	0	0.1	0.1	-1.81	-1.92	0	0	0	0	0	0
4/26/2024 10:00	58401	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 10:00	58001	WCAR_T1	4	5	1	0.8	0.82	0.02	0	0	0	0	0	0	0	0
4/26/2024 10:00	43201	MVIL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/26/2024 10:00	16102	BING_T2	3	7	4	2.2	0.27	-1.93	0	0	0	0	0	0	0	0
4/26/2024 10:00	13807	SALI_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
4/26/2024 10:00	62605	ENGL_T1	1	3	2	0.7	0.3	-0.4	-0.9	-0.87	0	0	0	0	0	0
4/26/2024 10:00	50201	HARR_T3	1	2	1	1	0.8	-0.2	-1.07	-1.08	1	1	0	1200	1200	0
4/26/2024 10:00	47001	HUGH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 10:00	13801	SALI_T1	0	0	0	0	0	0	0.69	0.71	0	0	0	0	0	0
4/26/2024 10:00	59202	THOM_T1	908	981	73	0.77	0.84	0.07	0	0	0	0	0	0	0	0
4/26/2024 10:00	60801	BUCK_T1	0	1	1	0	9	9	0.06	0.07	0	0	0	0	0	0
4/26/2024 10:00	13904	SEID_T1	1	0	-1	7.5	0	-7.5	0	0	0	0	0	0	0	0
4/26/2024 10:00	22102	EDEL_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
4/26/2024 10:00	15103	UPHA_T2	2	2	0	0.3	0.65	0.35	0.34	0.38	0	0	0	0	0	0
4/26/2024 10:00	67402	WAKE_T2	4	1	-3	0.13	0.3	0.17	0.16	0.15	0	0	0	0	0	0
4/26/2024 10:00	52006	LING_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
4/26/2024 10:00	62105	ELAN_T1	2	4	2	0.15	0.28	0.13	0	0	0	0	0	0	0	0
4/26/2024 10:00	48302	ORWI_T2	2	2	0	1.1	1.3	0.2	-0.02	0	0	0	0	0	0	0
4/26/2024 10:00	54505	ENOL_T2	1	2	1	0.3	0.55	0.25	0	0	0	0	0	0	0	0
4/26/2024 10:00	15404	WALL_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
4/26/2024 10:00	46501	LOHA_T1	0	0	0	0	0	0	-0.17	-0.15	1	1	0	1200	1200	0
4/26/2024 10:00	57101	SPHI_T2	6	6	0	0.87	1.27	0.4	0	0	0	0	0	0	0	0
4/26/2024 10:04	54001	SDLE_T1	51	74	23	0.54	0.52	-0.02	0	0	0	0	0	0	0	0
4/26/2024 10:04	57403	SPAN_T1	19	70	51	0.24	0.26	0.02	0	0	0	0	0	0	0	0
4/26/2024 10:04	57401	SPAN_T1	7	8	1	0.4	0.73	0.33	-1.14	-1.17	1	1	0	600	600	0
4/26/2024 10:05	54001	SDLE_T1	51	74	23	0.54	0.52	-0.02	0	0	0	0	0	0	0	0
4/26/2024 10:06	64304	LINC_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:06	57403	SPAN_T1	19	70	51	0.24	0.26	0.02	0	0	0	0	0	0	0	0
4/26/2024 10:06	64302	LINC_T2	0	0	0	0	0	0	1.1	1.04	0	0	0	0	0	0
4/26/2024 10:06	57401	SPAN_T1	7	8	1	0.4	0.73	0.33	-1.14	-1.17	1	1	0	600	600	0
4/26/2024 10:07	50503	MECH_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
4/26/2024 10:07	45902	AUBU_T1	1	1	0	1.4	1.6	0.2	-0.93	-1.14	2	2	0	1200	1200	0
4/26/2024 10:07	52001	LING_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
4/26/2024 10:07	50505	MECH_T1	0	1	1	0	0.2	0.2	-0.82	-0.88	0	0	0	0	0	0
4/26/2024 10:07	58401	MORO_T1	0	1	1	0	0.2	0.2	-1.05	-1.08	1	1	0	600	600	0
4/26/2024 10:07	16101	BING_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/26/2024 10:07	20402	ASHF_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/26/2024 10:07	58102	NEKI_T1	2	3	1	1	0.73	-0.27	-1.13	-1.15	1	1	0	1200	1200	0
4/26/2024 10:07	61302	EARL_T1	1	1	0	0.2	0.8	0.6	0.33	0.29	2	2	0	1800	1800	0
4/26/2024 10:07	67605	WARW_T1	18	35	17	0.56	0.58	0.02	0	0	0	0	0	0	0	0
4/26/2024 10:07	20403	ASHF_T2	27	66	39	0.29	0.33	0.04	0.04	-0.01	0	0	0	0	0	0
4/26/2024 10:07	58402	MORO_T1	0	0	0	0	0	0	-0.22	-0.25	2	2	0	1500	1500	0
4/26/2024 10:07	58101	NEKI_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:07	67002	STHI_T2	29	52	23	0.38	0.33	-0.05	0.7	0.66	0	0	0	0	0	0
4/26/2024 10:07	63401	HONY_T1	0	0	0	0	0	0	0.05	0.08	1	1	0	600	600	0
4/26/2024 10:07	67401	WAKE_T2	4	4	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
4/26/2024 10:07	29401	BELT_T1	0	2	2	0	0.45	0.45	0	0	3	3	0	2700	2700	0
4/26/2024 10:07	50504	MECH_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
4/26/2024 10:07	12604	MACA_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
4/26/2024 10:07	12601	MACA_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/26/2024 10:07	44201	POIN_T1	0	0	0	0	0	0	-0.98	-1.24	2	2	0	2100	2100	0
4/26/2024 10:07	50501	MECH_T1	4	4	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:07	16103	BING_T2	1	1	0	0.1	1.1	1	0	0	0	0	0	0	0	0
4/26/2024 10:07	50502	MECH_T1	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
4/26/2024 10:07	67001	STHI_T2	40	186	146	0.16	0.12	-0.04	0	0	0	0	0	0	0	0
4/26/2024 10:07	20401	ASHF_T2	1	3	2	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/26/2024 10:07	16102	BING_T2	3	7	4	2.2	0.27	-1.93	-0.01	0.18	0	0	0	0	0	0
4/26/2024 10:07	67603	WARW_T1	1	2	1	0.1	0.5	0.4	0	0.05	0	0	0	0	0	0
4/26/2024 10:07	67402	WAKE_T2	4	1	-3	0.13	0.3	0.17	0.16	0.15	0	0	0	0	0	0
4/26/2024 10:07	29402	BELT_T1	2	4	2	3.7	2.15	-1.55	0	0	0	0	0	0	0	0
4/26/2024 10:07	50506	MECH_T1	1	3	2	1.2	0.57	-0.63	0	0	0	0	0	0	0	0
4/26/2024 10:08	43103	SMIL_T2	20	17	-3	0.61	0.56	-0.05	0	0	0	0	0	0	0	0
4/26/2024 10:08	43304	WATS_T2	0	0	0	0	0	0	-0.49	-0.45	0	0	0	0	0	0
4/26/2024 10:08	43101	SMIL_T2	3	6	3	0.93	1.03	0.1	-0.84	-0.87	0	0	0	0	0	0
4/26/2024 10:08	59201	THOM_T1	90	98	8	0.68	0.73	0.05	0	0	0	0	0	0	0	0
4/26/2024 10:08	58401	MORO_T1	0	1	1	0	0.2	0.2	-1.08	-1.1	1	1	0	600	600	0
4/26/2024 10:08	40302	TAMA_T3	7	7	0	0.27	0.29	0.02	0.24	0.25	0	0	0	0	0	0
4/26/2024 10:08	60801	BUCK_T1	0	1	1	0	9	9	0.13	0.12	0	0	0	0	0	0
4/26/2024 10:08	29402	BELT_T1	2	4	2	3.7	2.15	-1.55	0	0	0	0	0	0	0	0
4/26/2024 10:08	54001	SDLE_T1	51	74	23	0.54	0.52	-0.02	0	0	0	0	0	0	0	0
4/26/2024 10:08	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 10:08	43105	SMIL_T2	3	3	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:08	59202	THOM_T1	908	981	73	0.77	0.84	0.07	0	0	0	0	0	0	0	0
4/26/2024 10:08	56701	SMEC_T1	5	6	1	0.48	0.67	0.19	0.06	0.04	0	0	0	0	0	0
4/26/2024 10:08	40501	CRES_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/26/2024 10:08	40502	CRES_T2	18	25	7	0.28	0.3	0.02	-0.35	-0.37	0	0	0	0	0	0
4/26/2024 10:08	45602	WOOL_T1	4	6	2	0.25	0.45	0.2	0.47	0.45	0	0	0	0	0	0
4/26/2024 10:08	43104	SMIL_T2	3	4	1	0.2	0.53	0.33	0	0	0	0	0	0	0	0
4/26/2024 10:08	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/26/2024 10:08	29401	BELT_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/26/2024 10:08	53501	EVIL_T2	7	8	1	0.89	0.64	-0.25	0.14	-0.14	2	2	0	1200	1200	0
4/26/2024 10:08	43102	SMIL_T2	6	8	2	0.55	0.55	0	-0.88	-0.87	1	1	0	600	600	0
4/26/2024 10:08	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 10:09	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
4/26/2024 10:09	20401	ASHF_T2	1	3	2	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/26/2024 10:09	59003	MIFF_T1	2	2	0	0.45	0.45	0	0.6	0.72	0	0	0	0	0	0
4/26/2024 10:09	67603	WARW_T1	1	2	1	0.1	0.5	0.4	0.05	0.03	0	0	0	0	0	0
4/26/2024 10:09	22401	MORG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:09	59002	MIFF_T1	5	6	1	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
4/26/2024 10:09	20402	ASHF_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/26/2024 10:09	46002	BERW_T2	1	1	0	0.3	0.3	0	-0.76	-0.84	1	1	0	900	900	0
4/26/2024 10:09	22405	MORG_T2	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
4/26/2024 10:09	10801	CHHI_T1	5	5	0	0.42	0.28	-0.14	-0.92	-0.96	1	1	0	900	900	0
4/26/2024 10:09	45702	LIND_T2	2	2	0	0.45	0.65	0.2	-0.48	-0.48	0	0	0	0	0	0
4/26/2024 10:09	59001	MIFF_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/26/2024 10:09	20403	ASHF_T2	27	66	39	0.29	0.33	0.04	-0.02	0.65	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 10:09	46004	BERW_T2	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0	0
4/26/2024 10:09	54601	SUMM_T2	12	12	0	0.31	0.55	0.24	-1.89	-1.9	2	2	0	2100	2100	0
4/26/2024 10:09	14204	EALL_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
4/26/2024 10:09	67605	WARW_T1	18	35	17	0.56	0.58	0.02	0	0	0	0	0	0	0	0
4/26/2024 10:09	15001	BLMO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:10	29402	BELT_T1	2	4	2	3.7	2.15	-1.55	0	0	0	0	0	0	0	0
4/26/2024 10:10	67702	WERN_T2	1	2	1	0.2	0.4	0.2	-0.05	-0.01	0	0	0	0	0	0
4/26/2024 10:10	17101	WTRE_T2	3	3	0	6.03	6.2	0.17	0	0	0	0	0	0	0	0
4/26/2024 10:10	59102	WALK_T2	7	11	4	0.46	0.47	0.01	0	0	0	0	0	0	0	0
4/26/2024 10:10	67703	WERN_T2	0	1	1	0	0.3	0.3	0.63	0.63	0	0	0	0	0	0
4/26/2024 10:10	45902	AUBU_T1	1	1	0	1.4	1.6	0.2	-0.57	-0.56	1	1	0	600	600	0
4/26/2024 10:10	59101	WALK_T2	3	1	-2	0.33	0.5	0.17	1.15	1.31	0	0	0	0	0	0
4/26/2024 10:10	29401	BELT_T1	0	2	2	0	0.45	0.45	0	0	1	1	0	900	900	0
4/26/2024 10:10	17102	WTRE_T2	0	0	0	0	0	0	0	-0.05	0	0	0	0	0	0
4/26/2024 10:10	45901	AUBU_T1	0	0	0	0	0	0	1.72	1.71	0	0	0	0	0	0
4/26/2024 10:11	67605	WARW_T1	18	35	17	0.56	0.58	0.02	-1.91	-2.23	0	0	0	0	0	0
4/26/2024 10:11	15001	BLMO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:11	67603	WARW_T1	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/26/2024 10:11	20402	ASHF_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/26/2024 10:11	20403	ASHF_T2	27	66	39	0.29	0.33	0.04	-0.01	0.32	0	0	0	0	0	0
4/26/2024 10:11	20401	ASHF_T2	1	3	2	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/26/2024 10:11	28403	HART_T2	0	0	0	0	0	0	-0.97	-0.97	1	1	0	900	900	0
4/26/2024 10:12	46002	BERW_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/26/2024 10:12	46004	BERW_T2	4	4	0	0.28	0.28	0	-1.5	-1.35	0	0	0	0	0	0
4/26/2024 10:12	15001	BLMO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:13	28403	HART_T2	0	0	0	0	0	0	-0.97	-0.97	1	1	0	900	900	0
4/26/2024 10:13	11205	ELHE_T1	0	0	0	0	0	0	-0.83	-0.84	1	1	0	1200	1200	0
4/26/2024 10:14	41502	FAIR_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
4/26/2024 10:15	64702	LITI_T2	0	0	0	0	0	0	-0.64	-0.69	0	0	0	0	0	0
4/26/2024 10:16	56504	ROCK_T2	1	4	3	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/26/2024 10:16	42902	MIDD_T2	9	17	8	0.47	0.45	-0.02	-1.88	-1.89	2	2	0	1200	1200	0
4/26/2024 10:16	46803	HEPB_T2	1	1	0	0.7	0.2	-0.5	0.44	0.4	0	0	0	0	0	0
4/26/2024 10:16	56501	ROCK_T2	2	2	0	0.25	0.5	0.25	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 10:16	65503	MOJO_T2	2	15	13	0.35	0.39	0.04	-0.45	-0.45	0	0	0	0	0	0
4/26/2024 10:16	45702	LIND_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/26/2024 10:16	65502	MOJO_T2	0	0	0	0	0	0	-0.44	-0.37	0	0	0	0	0	0
4/26/2024 10:16	46801	HEPB_T2	2	2	0	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
4/26/2024 10:16	42903	MIDD_T2	2	4	2	0.35	0.5	0.15	0	0	0	0	0	0	0	0
4/26/2024 10:16	45701	LIND_T2	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
4/26/2024 10:17	25503	MADI_T1	2	27	25	0.4	0.16	-0.24	-0.97	-1.01	0	0	0	0	0	0
4/26/2024 10:17	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
4/26/2024 10:17	65503	MOJO_T2	2	15	13	0.35	0.39	0.04	-0.91	-0.89	0	0	0	0	0	0
4/26/2024 10:17	47402	PENS_T1	2	2	0	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
4/26/2024 10:17	47401	PENS_T1	4	9	5	1	0.83	-0.17	1.7	1.8	0	0	0	0	0	0
4/26/2024 10:17	47403	PENS_T1	3	7	4	0.37	0.66	0.29	0	0	0	0	0	0	0	0
4/26/2024 10:17	25502	MADI_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:17	45702	LIND_T2	2	2	0	0.6	0.8	0.2	-0.48	-0.48	0	0	0	0	0	0
4/26/2024 10:17	25501	MADI_T1	2	2	0	0.35	0.7	0.35	0	0	0	0	0	0	0	0
4/26/2024 10:17	64702	LITI_T2	0	0	0	0	0	0	-0.64	-0.69	0	0	0	0	0	0
4/26/2024 10:18	66502	SMAN_T2	1	12	11	0.7	0.4	-0.3	0.35	0.48	0	0	0	0	0	0
4/26/2024 10:18	42903	MIDD_T2	2	4	2	0.35	0.5	0.15	0	0	0	0	0	0	0	0
4/26/2024 10:18	66501	SMAN_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/26/2024 10:18	66504	SMAN_T2	1	4	3	0.6	0.63	0.03	0	0	0	0	0	0	0	0
4/26/2024 10:18	42902	MIDD_T2	9	17	8	0.47	0.45	-0.02	-0.94	-0.95	1	1	0	600	600	0
4/26/2024 10:19	24204	PROV_T3	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:19	13704	SCHN_T2	1	1	0	0.3	0.3	0	-0.38	-0.37	0	0	0	0	0	0
4/26/2024 10:19	47401	PENS_T1	4	9	5	1	0.83	-0.17	0.85	0.9	0	0	0	0	0	0
4/26/2024 10:19	47402	PENS_T1	2	2	0	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
4/26/2024 10:19	47403	PENS_T1	3	7	4	0.37	0.66	0.29	0	0	0	0	0	0	0	0
4/26/2024 10:19	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
4/26/2024 10:19	45702	LIND_T2	2	2	0	0.6	0.8	0.2	-0.48	-0.48	0	0	0	0	0	0
4/26/2024 10:19	24201	PROV_T3	1	2	1	6.3	3.15	-3.15	-1.56	-1.57	1	1	0	1200	1200	0
4/26/2024 10:20	66504	SMAN_T2	1	4	3	0.6	0.63	0.03	0	0	0	0	0	0	0	0
4/26/2024 10:20	64904	MILL_T1	1	1	0	0.3	0.2	-0.1	0.37	0.38	0	0	0	0	0	0
4/26/2024 10:20	56504	ROCK_T2	1	4	3	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
4/26/2024 10:20	64901	MILL_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:20	56501	ROCK_T2	2	2	0	0.25	0.5	0.25	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 10:20	66502	SMAN_T2	1	12	11	0.7	0.4	-0.3	0.35	0.48	0	0	0	0	0	0
4/26/2024 10:20	66501	SMAN_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/26/2024 10:21	67703	WERN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/26/2024 10:21	47401	PENS_T1	4	9	5	1	0.83	-0.17	0.85	0.9	0	0	0	0	0	0
4/26/2024 10:21	47402	PENS_T1	2	2	0	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
4/26/2024 10:21	47403	PENS_T1	3	7	4	0.37	0.66	0.29	0	0	0	0	0	0	0	0
4/26/2024 10:21	65901	SAKR_T2	2	2	0	5	5.15	0.15	-1.26	-1.27	1	1	0	900	900	0
4/26/2024 10:21	65904	SAKR_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:21	67702	WERN_T2	1	2	1	0.6	0.55	-0.05	-0.05	-0.01	0	0	0	0	0	0
4/26/2024 10:23	61102	BERK_T5	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/26/2024 10:23	67601	WARW_T2	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
4/26/2024 10:23	23002	SAJO_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 10:23	61101	BERK_T5	1	4	3	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
4/26/2024 10:23	61103	BERK_T5	0	3	3	0	0.13	0.13	0.03	0.08	0	0	0	0	0	0
4/26/2024 10:23	15001	BLMO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:23	23001	SAJO_T1	0	0	0	0	0	0	-1.03	-1.07	0	0	0	0	0	0
4/26/2024 10:24	15001	BLMO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:24	67703	WERN_T2	0	1	1	0	0.3	0.3	0.63	0.63	0	0	0	0	0	0
4/26/2024 10:24	13503	MCMI_T2	1	1	0	0.8	1	0.2	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 10:24	67702	WERN_T2	1	2	1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
4/26/2024 10:25	61101	BERK_T5	1	4	3	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
4/26/2024 10:25	64101	REFR_T1	0	1	1	0	0.5	0.5	-1.27	-1.34	0	0	0	0	0	0
4/26/2024 10:25	61103	BERK_T5	0	3	3	0	0.13	0.13	0.05	0.15	0	0	0	0	0	0
4/26/2024 10:25	61702	ELIZ_T2	13	9	-4	0.62	0.86	0.24	-1.56	-1.58	1	1	0	300	300	0
4/26/2024 10:25	61102	BERK_T5	1	2	1	0.1	0.15	0.05	0.56	0.67	1	1	0	300	300	0
4/26/2024 10:25	41601	CLEV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/26/2024 10:26	41601	CLEV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/26/2024 10:26	61103	BERK_T5	0	3	3	0	0.13	0.13	0.03	0.08	0	0	0	0	0	0
4/26/2024 10:26	61101	BERK_T5	1	4	3	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
4/26/2024 10:26	67605	WARW_T1	24	44	20	0.54	0.6	0.06	-1.12	-1.12	0	0	0	0	0	0
4/26/2024 10:26	64101	REFR_T1	0	1	1	0	0.5	0.5	-1.91	-2.02	0	0	0	0	0	0
4/26/2024 10:26	67603	WARW_T1	1	3	2	0.2	0.53	0.33	0	0	0	0	0	0	0	0
4/26/2024 10:26	61102	BERK_T5	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/26/2024 10:27	41601	CLEV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/26/2024 10:27	41301	FISH_T1	3	4	1	2.07	1.55	-0.52	-0.02	-0.02	0	0	0	0	0	0
4/26/2024 10:27	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 10:28	61803	EELI_T2	0	0	0	0	0	0	0.35	0.36	1	1	0	600	600	0
4/26/2024 10:30	50105	HARR_T3	6	6	0	6.1	5.88	-0.22	0	0	0	0	0	0	0	0
4/26/2024 10:30	50201	HARR_T3	2	6	4	0.8	0.42	-0.38	0	0	0	0	0	0	0	0
4/26/2024 10:30	50103	HARR_T3	5	4	-1	0.62	0.68	0.06	-1.04	-1.04	1	1	0	1200	1200	0
4/26/2024 10:30	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
4/26/2024 10:32	55002	NEWP_T1	10	10	0	0.84	0.77	-0.07	-0.22	-0.21	0	0	0	0	0	0
4/26/2024 10:32	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:33	47403	PENS_T1	5	8	3	0.32	0.71	0.39	0	0	0	0	0	0	0	0
4/26/2024 10:33	47401	PENS_T1	3	9	6	1.3	0.83	-0.47	0.9	0.89	0	0	0	0	0	0
4/26/2024 10:33	47402	PENS_T1	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:34	55002	NEWP_T1	10	10	0	0.84	0.77	-0.07	-0.22	-0.21	0	0	0	0	0	0
4/26/2024 10:34	42002	MNVL_T2	2	3	1	1.95	1.4	-0.55	-0.74	-0.73	0	0	0	0	0	0
4/26/2024 10:34	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:34	42001	MNVL_T2	9	147	138	0.52	0.33	-0.19	0	0	0	0	0	0	0	0
4/26/2024 10:35	58401	MORO_T1	0	2	2	0	0.2	0.2	1.1	-1.09	1	1	0	600	600	0
4/26/2024 10:35	47401	PENS_T1	3	9	6	1.3	0.83	-0.47	0.9	0.89	0	0	0	0	0	0
4/26/2024 10:35	55002	NEWP_T1	10	10	0	0.84	0.77	-0.07	-0.44	-0.42	0	0	0	0	0	0
4/26/2024 10:35	47403	PENS_T1	5	8	3	0.32	0.71	0.39	0	0	0	0	0	0	0	0
4/26/2024 10:35	47402	PENS_T1	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:35	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:36	13701	SCHN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 10:36	42002	MNVL_T2	2	3	1	1.95	1.4	-0.55	0	0	0	0	0	0	0	0
4/26/2024 10:36	42001	MNVL_T2	9	147	138	0.52	0.33	-0.19	0	0	0	0	0	0	0	0
4/26/2024 10:36	13704	SCHN_T2	1	1	0	0.3	0.5	0.2	-0.37	-0.34	0	0	0	0	0	0
4/26/2024 10:37	14402	SSLA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/26/2024 10:37	14401	SSLA_T1	1	2	1	1	0.75	-0.25	0	0	0	0	0	0	0	0
4/26/2024 10:37	47401	PENS_T1	3	9	6	1.3	0.83	-0.47	1.8	1.77	0	0	0	0	0	0
4/26/2024 10:37	23001	SAJO_T1	0	0	0	0	0	0	-1.03	-1.07	0	0	0	0	0	0
4/26/2024 10:37	14404	SSLA_T1	4	5	1	1.7	1.4	-0.3	0.02	0.04	0	0	0	0	0	0
4/26/2024 10:37	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 10:37	47402	PENS_T1	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:37	23002	SAJO_T1	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
4/26/2024 10:37	47403	PENS_T1	5	8	3	0.32	0.71	0.39	0	0	0	0	0	0	0	0
4/26/2024 10:37	14403	SSLA_T1	4	4	0	0.63	0.63	0	0	0	0	0	0	0	0	0
4/26/2024 10:38	51301	WIND_T1	8	13	5	0.43	0.47	0.04	0	0	0	0	0	0	0	0
4/26/2024 10:38	51305	WIND_T1	3	3	0	0.57	0.83	0.26	0	0	0	0	0	0	0	0
4/26/2024 10:38	20402	ASHF_T2	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/26/2024 10:38	51303	WIND_T1	2	3	1	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
4/26/2024 10:38	20401	ASHF_T2	1	6	5	0.7	0.24	-0.46	-1.05	-1.04	0	0	0	0	0	0
4/26/2024 10:38	45902	AUBU_T1	1	1	0	1.6	1.4	-0.2	-0.53	-0.56	1	1	0	600	600	0
4/26/2024 10:38	20403	ASHF_T2	5	17	12	0.24	0.68	0.44	0	0	0	0	0	0	0	0
4/26/2024 10:39	51304	WIND_T2	0	1	1	0	0.1	0.1	-0.16	-0.09	0	0	0	0	0	0
4/26/2024 10:39	51306	WIND_T2	3	3	0	0.17	0.33	0.16	0	0	0	0	0	0	0	0
4/26/2024 10:39	51302	WIND_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/26/2024 10:40	67603	WARW_T1	2	3	1	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
4/26/2024 10:40	45402	WBLO_T2	2	3	1	0.7	0.97	0.27	-0.79	-0.78	0	0	0	0	0	0
4/26/2024 10:40	67605	WARW_T1	32	44	12	0.55	0.65	0.1	-1.12	-1.11	0	0	0	0	0	0
4/26/2024 10:41	45801	HEGI_T1	0	1	1	0	0.2	0.2	-0.11	-0.08	1	1	0	900	900	0
4/26/2024 10:41	63302	GREE_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
4/26/2024 10:42	61103	BERK_T5	3	3	0	0.1	0.2	0.1	0.08	0.09	0	0	0	0	0	0
4/26/2024 10:42	61102	BERK_T5	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/26/2024 10:42	51108	CARL_T1	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/26/2024 10:42	51102	CARL_T1	5	26	21	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
4/26/2024 10:42	51101	CARL_T1	0	1	1	0	0.2	0.2	-1.24	-1.28	1	1	0	600	600	0
4/26/2024 10:42	61101	BERK_T5	2	4	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
4/26/2024 10:42	51109	CARL_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/26/2024 10:43	62605	ENGL_T1	3	6	3	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
4/26/2024 10:43	51101	CARL_T1	0	1	1	0	0.2	0.2	-1.24	-1.28	1	1	0	600	600	0
4/26/2024 10:43	51108	CARL_T1	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/26/2024 10:43	62607	ENGL_T1	3	5	2	0.23	0.38	0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 10:43	46004	BERW_T2	4	2	-2	0.28	0.4	0.12	-0.66	-0.61	0	0	0	0	0	0
4/26/2024 10:43	61801	EELI_T2	0	2	2	0	0.15	0.15	-0.23	-0.23	0	0	0	0	0	0
4/26/2024 10:43	51102	CARL_T1	5	26	21	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
4/26/2024 10:43	46002	BERW_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/26/2024 10:43	51109	CARL_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/26/2024 10:43	61803	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:43	62602	ENGL_T1	1	1	0	0.1	0.4	0.3	0.06	0.07	0	0	0	0	0	0
4/26/2024 10:44	51108	CARL_T1	2	3	1	0.1	0.13	0.03	-0.49	-0.55	1	1	0	600	600	0
4/26/2024 10:44	51109	CARL_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/26/2024 10:44	51101	CARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 10:44	51102	CARL_T1	5	26	21	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
4/26/2024 10:45	61102	BERK_T5	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:45	53903	HALI_T2	10	15	5	0.77	0.79	0.02	0	0	0	0	0	0	0	0
4/26/2024 10:45	53901	HALI_T2	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/26/2024 10:45	61101	BERK_T5	3	4	1	0.43	0.43	0	0	0	0	0	0	0	0	0
4/26/2024 10:45	61103	BERK_T5	3	4	1	0.13	0.18	0.05	0.08	0.09	0	0	0	0	0	0
4/26/2024 10:45	46802	HEPB_T1	3	4	1	0.7	0.85	0.15	-0.26	-0.35	0	0	0	0	0	0
4/26/2024 10:45	53902	HALI_T2	3	5	2	2.43	1.72	-0.71	-0.25	-0.26	0	0	0	0	0	0
4/26/2024 10:46	60501	NMAN_T2	8	7	-1	2.39	2.67	0.28	0	0	0	0	0	0	0	0
4/26/2024 10:46	63602	LETO_T1	2	40	38	0.6	0.18	-0.42	-0.43	-0.44	0	0	0	0	0	0
4/26/2024 10:46	60502	NMAN_T2	0	1	1	0	0.1	0.1	-0.21	-0.25	0	0	0	0	0	0
4/26/2024 10:46	67703	WERN_T2	1	2	1	0.3	0.45	0.15	0.63	0.66	0	0	0	0	0	0
4/26/2024 10:46	60504	NMAN_T2	3	3	0	0.9	1.07	0.17	0	0	0	0	0	0	0	0
4/26/2024 10:46	63601	LETO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/26/2024 10:46	67702	WERN_T2	1	3	2	0.9	0.67	-0.23	0	0	0	0	0	0	0	0
4/26/2024 10:48	42903	MIDD_T2	4	2	-2	0.5	0.85	0.35	-0.58	-0.47	1	1	0	1200	1200	0
4/26/2024 10:48	42902	MIDD_T2	12	22	10	0.5	0.51	0.01	0	0	0	0	0	0	0	0
4/26/2024 10:49	58401	MORO_T1	0	2	2	0	0.2	0.2	-1.09	-1.08	1	1	0	600	600	0
4/26/2024 10:49	63602	LETO_T1	2	40	38	0.6	0.18	-0.42	-0.43	-0.44	0	0	0	0	0	0
4/26/2024 10:49	47802	MOCA_T2	1	1	0	0.4	0.6	0.2	-0.87	-0.83	0	0	0	0	0	0
4/26/2024 10:49	54503	ENOL_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:49	54504	ENOL_T2	1	2	1	1.3	0.8	-0.5	-0.98	-0.95	1	1	0	600	600	0
4/26/2024 10:49	54505	ENOL_T2	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
4/26/2024 10:49	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:49	63601	LETO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/26/2024 10:49	54502	ENOL_T2	1	4	3	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
4/26/2024 10:49	54501	ENOL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 10:50	66701	STRA_T1	3	3	0	1.07	1.37	0.3	0	0	0	0	0	0	0	0
4/26/2024 10:50	66703	STRA_T1	0	2	2	0	0.1	0.1	-0.17	-0.14	0	0	0	0	0	0
4/26/2024 10:50	57403	SPAN_T1	30	85	55	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
4/26/2024 10:50	57401	SPAN_T1	8	13	5	0.74	0.64	-0.1	-4.67	-4.92	4	4	0	2400	2400	0
4/26/2024 10:51	43105	SMIL_T2	2	2	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
4/26/2024 10:51	43108	SMIL_T2	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
4/26/2024 10:51	65205	PRIN_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
4/26/2024 10:51	57403	SPAN_T1	30	85	55	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
4/26/2024 10:51	43101	SMIL_T2	5	5	0	1.02	0.94	-0.08	0	0	0	0	0	0	0	0
4/26/2024 10:51	57401	SPAN_T1	8	13	5	0.74	0.64	-0.1	-1.17	-1.23	1	1	0	600	600	0
4/26/2024 10:51	26001	WDAM_T1	0	1	1	0	0.6	0.6	-0.42	-0.42	0	0	0	0	0	0
4/26/2024 10:51	67505	WEWI_T1	4	4	0	0.28	0.75	0.47	-0.27	-0.35	1	1	0	900	900	0
4/26/2024 10:51	67501	WEWI_T1	2	7	5	0.75	0.66	-0.09	0	0	0	0	0	0	0	0
4/26/2024 10:51	43104	SMIL_T2	4	5	1	0.43	0.44	0.01	0	0	0	0	0	0	0	0
4/26/2024 10:51	26002	WDAM_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/26/2024 10:51	43103	SMIL_T2	18	23	5	0.44	0.5	0.06	0	0	0	0	0	0	0	0
4/26/2024 10:51	43102	SMIL_T2	7	7	0	0.43	0.46	0.03	0	0	0	0	0	0	0	0
4/26/2024 10:52	54501	ENOL_T2	0	2	2	0	0.2	0.2	0.09	0.09	0	0	0	0	0	0
4/26/2024 10:52	60803	BUCK_T1	0	0	0	0	0	0	-0.55	-0.54	1	1	0	600	600	0
4/26/2024 10:52	57403	SPAN_T1	30	85	55	0.33	0.27	-0.06	-0.05	-0.04	0	0	0	0	0	0
4/26/2024 10:52	54503	ENOL_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/26/2024 10:52	57401	SPAN_T1	8	13	5	0.74	0.64	-0.1	-1.17	-1.23	1	1	0	600	600	0
4/26/2024 10:52	67501	WEWI_T1	2	7	5	0.75	0.66	-0.09	-0.56	-0.58	0	0	0	0	0	0
4/26/2024 10:52	54502	ENOL_T2	1	4	3	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
4/26/2024 10:52	67505	WEWI_T1	4	4	0	0.28	0.75	0.47	0	0	0	0	0	0	0	0
4/26/2024 10:52	54504	ENOL_T2	1	2	1	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
4/26/2024 10:52	54505	ENOL_T2	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
4/26/2024 10:52	43704	WILL_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
4/26/2024 10:52	43705	WILL_T1	3	6	3	0.77	0.43	-0.34	-2.19	-2.12	0	0	0	0	0	0
4/26/2024 10:52	60801	BUCK_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
4/26/2024 10:53	66703	STRA_T1	0	2	2	0	0.1	0.1	-0.14	-0.14	0	0	0	0	0	0
4/26/2024 10:53	58402	MORO_T1	0	1	1	0	0.1	0.1	-0.29	-0.3	2	2	0	1500	1500	0
4/26/2024 10:53	58401	MORO_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 10:53	67505	WEWI_T1	4	4	0	0.28	0.75	0.47	0	0	0	0	0	0	0	0
4/26/2024 10:53	60801	BUCK_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
4/26/2024 10:53	60803	BUCK_T1	0	0	0	0	0	0	-0.54	-0.53	1	1	0	600	600	0
4/26/2024 10:53	67501	WEWI_T1	2	7	5	0.75	0.66	-0.09	-0.58	-0.5	0	0	0	0	0	0
4/26/2024 10:53	66701	STRA_T1	3	3	0	1.07	1.37	0.3	0	0	0	0	0	0	0	0
4/26/2024 10:54	42701	AUGU_T1	6	6	0	0.5	0.82	0.32	0	0	2	2	0	1800	1800	0
4/26/2024 10:54	67502	WEWI_T2	14	68	54	0.46	0.28	-0.18	0	0	0	0	0	0	0	0
4/26/2024 10:54	67503	WEWI_T2	0	1	1	0	0.2	0.2	0.44	0.45	0	0	0	0	0	0
4/26/2024 10:55	42701	AUGU_T1	6	6	0	0.5	0.82	0.32	0	0	2	2	0	1800	1800	0
4/26/2024 10:56	10805	CHHI_T2	8	3	-5	1.43	4.8	3.37	-0.4	-0.43	1	1	0	600	600	0
4/26/2024 10:57	60801	BUCK_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
4/26/2024 10:57	60803	BUCK_T1	0	0	0	0	0	0	-0.54	-0.53	1	1	0	600	600	0
4/26/2024 10:58	62602	ENGL_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/26/2024 10:58	11202	ELHE_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
4/26/2024 10:58	62605	ENGL_T1	3	11	8	0.4	0.26	-0.14	0	0	0	0	0	0	0	0
4/26/2024 10:58	62607	ENGL_T1	3	6	3	0.5	0.37	-0.13	-0.85	-0.87	0	0	0	0	0	0
4/26/2024 10:59	62602	ENGL_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/26/2024 10:59	63401	HONY_T1	0	0	0	0	0	0	0.36	0.31	1	1	0	600	600	0
4/26/2024 10:59	53501	EVIL_T2	7	8	1	0.83	0.75	-0.08	0	0	0	0	0	0	0	0
4/26/2024 10:59	62601	ENGL_T1	0	0	0	0	0	0	-0.19	-0.1	0	0	0	0	0	0
4/26/2024 10:59	62607	ENGL_T1	3	6	3	0.5	0.37	-0.13	-0.85	-0.87	0	0	0	0	0	0
4/26/2024 10:59	53502	EVIL_T2	0	2	2	0	0.2	0.2	-0.53	-0.52	2	2	0	1200	1200	0
4/26/2024 10:59	62605	ENGL_T1	3	11	8	0.4	0.26	-0.14	0	0	0	0	0	0	0	0
4/26/2024 11:00	41502	FAIR_T2	0	1	1	0	0.1	0.1	-0.69	-0.65	0	0	0	0	0	0
4/26/2024 11:01	59001	MIFF_T1	2	3	1	0.25	0.67	0.42	0	0	0	0	0	0	0	0
4/26/2024 11:01	59003	MIFF_T1	3	5	2	0.37	0.34	-0.03	0.84	0.82	0	0	0	0	0	0
4/26/2024 11:01	64801	MONE_T2	6	9	3	0.5	0.43	-0.07	0.21	0.18	0	0	0	0	0	0
4/26/2024 11:01	59002	MIFF_T1	6	8	2	0.4	0.53	0.13	0	0	0	0	0	0	0	0
4/26/2024 11:01	64802	MONE_T2	30	45	15	0.47	0.46	-0.01	0	0	0	0	0	0	0	0
4/26/2024 11:03	43202	MVIL_T2	65	104	39	0.41	0.67	0.26	0	0	0	0	0	0	0	0
4/26/2024 11:03	51002	NHAR_T1	2	1	-1	3.2	0.3	-2.9	0	0	0	0	0	0	0	0
4/26/2024 11:03	51004	NHAR_T1	14	14	0	1.03	0.89	-0.14	-0.43	-0.39	0	0	0	0	0	0
4/26/2024 11:03	65205	PRIN_T1	1	1	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
4/26/2024 11:03	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 11:03	43201	MVIL_T2	1	2	1	0.8	0.45	-0.35	-0.39	-0.27	0	0	0	0	0	0
4/26/2024 11:05	49804	UNIV_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/26/2024 11:05	43202	MVIL_T2	65	104	39	0.41	0.67	0.26	-0.73	-0.71	0	0	0	0	0	0
4/26/2024 11:05	43201	MVIL_T2	1	2	1	0.8	0.45	-0.35	-0.39	-0.27	0	0	0	0	0	0
4/26/2024 11:05	58003	WCAR_T1	2	3	1	0.85	0.5	-0.35	0.75	0.77	0	0	0	0	0	0
4/26/2024 11:05	49803	UNIV_T1	2	4	2	1.1	0.8	-0.3	-1.09	-1.04	0	0	0	0	0	0
4/26/2024 11:05	17002	RIRO_T2	10	14	4	0.56	0.49	-0.07	0.61	0.63	0	0	0	0	0	0
4/26/2024 11:05	58001	WCAR_T1	5	5	0	1.08	0.9	-0.18	0	0	0	0	0	0	0	0
4/26/2024 11:06	54602	SUMM_T2	7	4	-3	0.11	0.15	0.04	0	0	0	0	0	0	0	0
4/26/2024 11:06	67605	WARW_T1	39	41	2	0.63	0.67	0.04	-1.11	-1.1	0	0	0	0	0	0
4/26/2024 11:06	54601	SUMM_T2	9	9	0	0.72	0.71	-0.01	-1.87	-1.88	2	2	0	2100	2100	0
4/26/2024 11:06	67401	WAKE_T2	9	54	45	0.56	0.37	-0.19	0	0	0	0	0	0	0	0
4/26/2024 11:06	67402	WAKE_T2	8	16	8	0.29	0.38	0.09	0.15	0.16	0	0	0	0	0	0
4/26/2024 11:06	67603	WARW_T1	2	4	2	0.5	0.75	0.25	0	0	0	0	0	0	0	0
4/26/2024 11:07	58001	WCAR_T1	5	5	0	1.08	0.9	-0.18	0	0	0	0	0	0	0	0
4/26/2024 11:07	67401	WAKE_T2	9	54	45	0.56	0.37	-0.19	0	0	0	0	0	0	0	0
4/26/2024 11:07	14402	SSLA_T1	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/26/2024 11:07	58003	WCAR_T1	2	3	1	0.85	0.5	-0.35	0.75	0.77	0	0	0	0	0	0
4/26/2024 11:07	45601	WOOL_T1	1	1	0	0.1	0.5	0.4	-0.25	-0.35	1	1	0	1200	1200	0
4/26/2024 11:07	14401	SSLA_T1	2	2	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
4/26/2024 11:07	14403	SSLA_T1	4	4	0	0.58	0.83	0.25	0.62	0.61	0	0	0	0	0	0
4/26/2024 11:07	14404	SSLA_T1	5	6	1	1.4	1.4	0	0	0	0	0	0	0	0	0
4/26/2024 11:07	49804	UNIV_T1	1	2	1	0.2	0.5	0.3	0.76	0.59	0	0	0	0	0	0
4/26/2024 11:07	67402	WAKE_T2	8	16	8	0.29	0.38	0.09	0.15	0.16	0	0	0	0	0	0
4/26/2024 11:07	49803	UNIV_T1	2	4	2	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
4/26/2024 11:07	45602	WOOL_T1	8	11	3	0.39	0.47	0.08	0	0	0	0	0	0	0	0
4/26/2024 11:08	45902	AUBU_T1	1	1	0	1.3	1.4	0.1	-0.54	-0.49	1	1	0	600	600	0
4/26/2024 11:08	51305	WIND_T1	3	3	0	0.83	0.77	-0.06	0	0	0	0	0	0	0	0
4/26/2024 11:08	49804	UNIV_T1	1	2	1	0.2	0.5	0.3	0.76	0.59	0	0	0	0	0	0
4/26/2024 11:08	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 11:08	49803	UNIV_T1	2	4	2	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
4/26/2024 11:08	51303	WIND_T1	3	3	0	0.47	0.6	0.13	0	0	0	0	0	0	0	0
4/26/2024 11:08	51301	WIND_T1	13	14	1	0.47	0.49	0.02	0	0	0	0	0	0	0	0
4/26/2024 11:09	57006	WHHI_T2	3	4	1	0.43	0.73	0.3	0	0	0	0	0	0	0	0
4/26/2024 11:09	57002	WHHI_T2	0	0	0	0	0	0	-1.52	-1.52	1	1	0	1200	1200	0
4/26/2024 11:09	67402	WAKE_T2	8	16	8	0.29	0.38	0.09	0.16	0.2	0	0	0	0	0	0
4/26/2024 11:09	49803	UNIV_T1	2	4	2	1.1	0.8	-0.3	-1.04	-1.02	0	0	0	0	0	0
4/26/2024 11:09	49804	UNIV_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/26/2024 11:09	67401	WAKE_T2	9	54	45	0.56	0.37	-0.19	-1.11	-1.19	0	0	0	0	0	0
4/26/2024 11:09	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 11:09	10805	CHHI_T2	2	9	7	4.8	4.55	-0.25	-0.43	-0.56	1	1	0	600	600	0
4/26/2024 11:10	29402	BELT_T1	4	6	2	2.1	1.73	-0.37	0	0	0	0	0	0	0	0
4/26/2024 11:10	64101	BEFR_T1	2	3	1	0.55	0.53	-0.02	-0.67	-0.59	0	0	0	0	0	0
4/26/2024 11:10	67402	WAKE_T2	8	16	8	0.29	0.38	0.09	0.16	0.2	0	0	0	0	0	0
4/26/2024 11:10	45902	AUBU_T1	1	1	0	1.3	1.4	0.1	-0.54	-0.49	1	1	0	600	600	0
4/26/2024 11:10	29401	BELT_T1	3	5	2	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/26/2024 11:10	49803	UNIV_T1	2	4	2	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
4/26/2024 11:10	49804	UNIV_T1	1	2	1	0.2	0.5	0.3	0.59	0.63	0	0	0	0	0	0
4/26/2024 11:10	42701	AUGU_T1	4	7	3	0.73	0.71	-0.02	0	0	6	6	0	5400	5400	0
4/26/2024 11:10	62102	ELAN_T1	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
4/26/2024 11:10	26002	WDAM_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/26/2024 11:10	26001	WDAM_T1	1	1	0	0.1	0.6	0.5	-0.84	-0.84	0	0	0	0	0	0
4/26/2024 11:10	62105	ELAN_T1	4	5	1	0.55	0.54	-0.01	0	0	0	0	0	0	0	0
4/26/2024 11:10	67401	WAKE_T2	9	54	45	0.56	0.37	-0.19	0	0	0	0	0	0	0	0
4/26/2024 11:11	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 11:11	67603	WARW_T1	2	4	2	0.5	0.75	0.25	0	0	0	0	0	0	0	0
4/26/2024 11:11	67605	WARW_T1	39	41	2	0.63	0.67	0.04	-1.1	-1.08	0	0	0	0	0	0
4/26/2024 11:11	10805	CHHI_T2	2	9	7	4.8	4.55	-0.25	-0.43	-0.56	1	1	0	600	600	0
4/26/2024 11:11	49803	UNIV_T1	2	4	2	1.1	0.8	-0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 11:11	49804	UNIV_T1	1	2	1	0.2	0.5	0.3	0.59	0.63	0	0	0	0	0	0
4/26/2024 11:12	13905	SEID_T1	2	4	2	0.2	0.35	0.15	0	0	1	1	0	1200	1200	0
4/26/2024 11:12	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 11:13	45902	AUBU_T1	1	1	0	1.3	1.4	0.1	-0.54	-0.49	1	1	0	600	600	0
4/26/2024 11:14	67604	WARW_T1	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
4/26/2024 11:14	64204	KINZ_T1	4	2	-2	0.53	0.75	0.22	0	0	0	0	0	0	0	0
4/26/2024 11:14	67605	WARW_T1	39	41	2	0.63	0.67	0.04	0	0	0	0	0	0	0	0
4/26/2024 11:14	64201	KINZ_T1	1	0	-1	0.2	0	-0.2	0.36	0.25	2	2	0	1200	1200	0
4/26/2024 11:14	67603	WARW_T1	2	4	2	0.5	0.75	0.25	0	0	0	0	0	0	0	0
4/26/2024 11:14	64203	KINZ_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/26/2024 11:14	64202	KINZ_T1	4	5	1	0.68	0.62	-0.06	0	0	0	0	0	0	0	0
4/26/2024 11:15	45902	AUBU_T1	1	3	2	1.4	0.67	-0.73	-0.54	-0.49	1	1	0	600	600	0
4/26/2024 11:16	44502	HAMI_T2	2	3	1	1.35	1.17	-0.18	-0.95	-0.97	0	0	0	0	0	0
4/26/2024 11:16	67605	WARW_T1	39	45	6	0.68	0.61	-0.07	-1.1	-1.08	0	0	0	0	0	0
4/26/2024 11:16	67603	WARW_T1	3	6	3	0.7	0.58	-0.12	0	0	0	0	0	0	0	0
4/26/2024 11:16	42902	MIDD_T2	22	19	-3	0.5	0.62	0.12	-1.12	-1.06	1	1	0	600	600	0
4/26/2024 11:16	44505	HAMI_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
4/26/2024 11:16	42903	MIDD_T2	2	2	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
4/26/2024 11:17	54202	PENN_T2	1	2	1	0.3	0.15	-0.15	0.68	0.6	0	0	0	0	0	0
4/26/2024 11:17	54201	PENN_T1	181	185	4	0.38	0.36	-0.02	-1.07	-1.08	0	0	0	0	0	0
4/26/2024 11:17	54203	PENN_T1	31	32	1	0.88	0.84	-0.04	0	0	0	0	0	0	0	0
4/26/2024 11:17	54206	PENN_T2	5	4	-1	0.26	0.33	0.07	0	0	0	0	0	0	0	0
4/26/2024 11:19	54202	PENN_T2	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
4/26/2024 11:19	54206	PENN_T2	5	4	-1	0.26	0.33	0.07	0	0	0	0	0	0	0	0
4/26/2024 11:20	54202	PENN_T2	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
4/26/2024 11:20	54206	PENN_T2	5	4	-1	0.26	0.33	0.07	0	0	0	0	0	0	0	0
4/26/2024 11:21	67603	WARW_T1	3	6	3	0.7	0.58	-0.12	0	0	0	0	0	0	0	0
4/26/2024 11:21	54201	PENN_T1	181	185	4	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
4/26/2024 11:21	66703	STRA_T1	2	1	-1	0.1	0.4	0.3	-0.14	-0.18	0	0	0	0	0	0
4/26/2024 11:21	15102	UPHA_T1	3	3	0	0.67	0.7	0.03	0	0	0	0	0	0	0	0
4/26/2024 11:21	57403	SPAN_T1	51	99	48	0.31	0.28	-0.03	-0.05	-0.06	0	0	0	0	0	0
4/26/2024 11:21	57401	SPAN_T1	12	14	2	0.68	0.67	-0.01	0	0	0	0	0	0	0	0
4/26/2024 11:21	64802	MONE_T2	28	192	164	0.4	0.24	-0.16	0.26	0.16	0	0	0	0	0	0
4/26/2024 11:21	64801	MONE_T2	7	9	2	0.47	0.39	-0.08	0	0	0	0	0	0	0	0
4/26/2024 11:21	66701	STRA_T1	3	3	0	1.37	1.03	-0.34	0	0	0	0	0	0	0	0
4/26/2024 11:21	67605	WARW_T1	39	45	6	0.68	0.61	-0.07	-1.1	-1.08	0	0	0	0	0	0
4/26/2024 11:21	15101	UPHA_T1	1	1	0	1.2	1.1	-0.1	0.04	0.02	0	0	0	0	0	0
4/26/2024 11:21	54203	PENN_T1	31	32	1	0.88	0.84	-0.04	0.8	0.77	0	0	0	0	0	0
4/26/2024 11:22	67502	WEWI_T2	68	134	66	0.28	0.27	-0.01	-0.43	-0.33	0	0	0	0	0	0
4/26/2024 11:22	42201	WEN_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
4/26/2024 11:22	67503	WEWI_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/26/2024 11:22	43304	WATS_T2	0	0	0	0	0	0	-1.47	-1.59	0	0	0	0	0	0
4/26/2024 11:22	45303	WBER_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 11:22	43301	WATS_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	900	900	0
4/26/2024 11:22	45301	WBER_T2	0	0	0	0	0	0	-0.36	-0.41	1	1	0	1200	1200	0
4/26/2024 11:23	67503	WEWI_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/26/2024 11:23	20403	ASHF_T2	8	73	65	0.61	0.37	-0.24	0	0	0	0	0	0	0	0
4/26/2024 11:23	45902	AUBU_T1	1	3	2	1.4	0.67	-0.73	-0.49	-0.49	1	1	0	600	600	0
4/26/2024 11:23	56504	ROCK_T2	2	4	2	0.4	0.75	0.35	0	0	0	0	0	0	0	0
4/26/2024 11:23	57403	SPAN_T1	51	99	48	0.31	0.28	-0.03	-0.11	-0.11	0	0	0	0	0	0
4/26/2024 11:23	66701	STRA_T1	3	3	0	1.37	1.03	-0.34	0.81	0.79	0	0	0	0	0	0
4/26/2024 11:23	67502	WEWI_T2	68	134	66	0.28	0.27	-0.01	-0.33	-0.39	0	0	0	0	0	0
4/26/2024 11:23	20401	ASHF_T2	5	14	9	0.24	0.21	-0.03	-0.51	-0.54	0	0	0	0	0	0
4/26/2024 11:23	66703	STRA_T1	2	1	-1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/26/2024 11:23	57401	SPAN_T1	12	14	2	0.68	0.67	-0.01	0	0	0	0	0	0	0	0
4/26/2024 11:23	20402	ASHF_T2	2	5	3	0.35	0.36	0.01	0	0	0	0	0	0	0	0
4/26/2024 11:23	56503	ROCK_T2	3	3	0	0.37	0.43	0.06	-0.02	-0.02	0	0	0	0	0	0
4/26/2024 11:24	67502	WEWI_T2	68	134	66	0.28	0.27	-0.01	-0.33	-0.39	0	0	0	0	0	0
4/26/2024 11:24	45902	AUBU_T1	1	3	2	1.4	0.67	-0.73	0	0	0	0	0	0	0	0
4/26/2024 11:24	67503	WEWI_T2	1	2	1	0.2	0.3	0.1	0.42	0.45	0	0	0	0	0	0
4/26/2024 11:24	45901	AUBU_T1	0	0	0	0	0	0	1.76	1.75	0	0	0	0	0	0
4/26/2024 11:24	56501	ROCK_T2	3	3	0	0.37	0.43	0.06	-0.02	-0.02	0	0	0	0	0	0
4/26/2024 11:24	56504	ROCK_T2	2	4	2	0.4	0.75	0.35	0	0	0	0	0	0	0	0
4/26/2024 11:25	57006	WHHI_T2	4	3	-1	0.45	0.93	0.48	-0.11	-0.05	2	2	0	1200	1200	0
4/26/2024 11:25	61506	EPET_T2	0	0	0	0	0	0	-0.83	-0.9	1	1	0	900	900	0
4/26/2024 11:25	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 11:26	41801	GOCI_T2	332	356	24	0.87	1.06	0.19	0	0	0	0	0	0	0	0
4/26/2024 11:26	15103	UPHA_T2	4	5	1	0.53	0.58	0.05	0.37	0.38	0	0	0	0	0	0
4/26/2024 11:26	41802	GOCI_T2	16	10	-6	0.19	0.15	-0.04	0	0	0	0	0	0	0	0
4/26/2024 11:26	45902	AUBU_T1	1	3	2	1.4	0.67	-0.73	-0.49	-0.49	1	1	0	600	600	0
4/26/2024 11:28	41802	GOCI_T2	16	10	-6	0.19	0.15	-0.04	0	0	0	0	0	0	0	0
4/26/2024 11:28	51109	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/26/2024 11:28	11601	CEAL_T1	2	4	2	0.8	0.58	-0.22	0	0	1	1	0	1200	1200	0
4/26/2024 11:28	51107	CARL_T1	0	0	0	0	0	0	0.02	0.07	0	0	0	0	0	0
4/26/2024 11:28	51108	CARL_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/26/2024 11:28	51102	CARL_T1	9	7	-2	0.39	0.49	0.1	0	0	0	0	0	0	0	0
4/26/2024 11:28	41801	GOCI_T2	332	356	24	0.87	1.06	0.19	0	0	0	0	0	0	0	0
4/26/2024 11:28	51101	CARL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/26/2024 11:29	56502	ROCK_T2	2	4	2	0.4	0.75	0.35	0	0	0	0	0	0	0	0
4/26/2024 11:29	60901	DONG_T2	8	12	4	0.51	0.57	0.06	0	0	0	0	0	0	0	0
4/26/2024 11:29	67503	WEWI_T2	1	2	1	0.2	0.3	0.1	0.42	0.45	0	0	0	0	0	0
4/26/2024 11:29	45902	AUBU_T1	1	3	2	1.4	0.67	-0.73	-0.49	-0.49	1	1	0	600	600	0
4/26/2024 11:29	60902	DONG_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
4/26/2024 11:29	56501	ROCK_T2	3	3	0	0.37	0.43	0.06	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 11:29	60904	DONG_T2	4	8	4	0.48	0.64	0.16	0	0	0	0	0	0	0	0
4/26/2024 11:29	67502	WEWI_T2	68	134	66	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
4/26/2024 11:29	60903	DONG_T2	1	1	0	0.2	0.8	0.6	1.11	1.01	1	1	0	600	600	0
4/26/2024 11:30	41801	GOCI_T2	350	362	12	1.04	1.1	0.06	0	0	0	0	0	0	0	0
4/26/2024 11:30	26401	INOR_T1	4	4	0	2.73	3	0.27	0.74	0.65	0	0	0	0	0	0
4/26/2024 11:30	26402	INOR_T1	1	2	1	1.2	0.85	-0.35	0	0	0	0	0	0	0	0
4/26/2024 11:30	41802	GOCI_T2	10	12	2	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
4/26/2024 11:31	67603	WARW_T1	4	6	2	0.75	0.62	-0.13	0	0	0	0	0	0	0	0
4/26/2024 11:31	67605	WARW_T1	39	57	18	0.67	0.62	-0.05	-1.08	-1.12	0	0	0	0	0	0
4/26/2024 11:31	45902	AUBU_T1	1	3	2	1.4	0.73	-0.67	-0.49	-0.49	1	1	0	600	600	0
4/26/2024 11:31	67604	WARW_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/26/2024 11:32	42902	MIDD_T2	13	29	16	0.53	0.62	0.09	-2.12	-2.13	2	2	0	1200	1200	0
4/26/2024 11:32	40601	PIGR_T1	117	165	48	0.35	0.53	0.18	0.08	0.1	0	0	0	0	0	0
4/26/2024 11:32	40603	PIGR_T1	2	3	1	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
4/26/2024 11:32	40602	PIGR_T1	3	3	0	0.47	0.57	0.1	0	0	0	0	0	0	0	0
4/26/2024 11:32	42903	MIDD_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/26/2024 11:34	57304	MOAL_T2	24	56	32	0.24	0.31	0.07	0	0	0	0	0	0	0	0
4/26/2024 11:34	41202	KENM_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/26/2024 11:34	57306	MOAL_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/26/2024 11:34	41204	KENM_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 11:34	57303	MOAL_T2	1	1	0	7	7	0	0	0	0	0	0	0	0	0
4/26/2024 11:34	57301	MOAL_T2	0	0	0	0	0	0	0.31	0.37	0	0	0	0	0	0
4/26/2024 11:34	41205	KENM_T2	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
4/26/2024 11:35	65901	SAKR_T2	2	3	1	5.3	3.63	-1.67	-1.21	-1.24	1	1	0	900	900	0
4/26/2024 11:35	54201	PENN_T1	163	210	47	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
4/26/2024 11:35	65904	SAKR_T2	2	6	4	0.35	0.35	0	0	0	0	0	0	0	0	0
4/26/2024 11:35	54203	PENN_T1	30	32	2	0.86	0.91	0.05	0.77	0.76	0	0	0	0	0	0
4/26/2024 11:36	24102	EHAZ_T1	0	17	17	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 11:36	40603	PIGR_T1	2	3	1	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
4/26/2024 11:36	24104	EHAZ_T1	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/26/2024 11:36	54504	ENOL_T2	1	2	1	1.3	0.75	-0.55	0	0	0	0	0	0	0	0
4/26/2024 11:36	54501	ENOL_T2	2	3	1	0.2	0.67	0.47	0	0	0	0	0	0	0	0
4/26/2024 11:36	24103	EHAZ_T1	0	1	1	0	0	0	-1.3	-1.39	0	0	0	0	0	0
4/26/2024 11:36	54502	ENOL_T2	4	4	0	0.3	0.33	0.03	0	0	0	0	0	0	0	0
4/26/2024 11:36	67603	WARW_T1	4	6	2	0.75	0.62	-0.13	0	0	0	0	0	0	0	0
4/26/2024 11:36	54505	ENOL_T2	2	3	1	0.45	0.47	0.02	0	0	0	0	0	0	0	0
4/26/2024 11:36	45902	AUBU_T1	1	3	2	1.4	0.73	-0.67	-0.49	-0.49	1	1	0	600	600	0
4/26/2024 11:36	54503	ENOL_T2	2	3	1	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
4/26/2024 11:36	24101	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 11:36	67605	WARW_T1	39	57	18	0.67	0.62	-0.05	-1.08	-1.12	0	0	0	0	0	0
4/26/2024 11:36	54506	ENOL_T2	1	0	-1	0.1	0	-0.1	0.19	0.17	1	1	0	600	600	0
4/26/2024 11:36	67604	WARW_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/26/2024 11:36	24105	EHAZ_T1	4	4	0	6.8	6.4	-0.4	0	0	0	0	0	0	0	0
4/26/2024 11:36	40602	PIGR_T1	3	3	0	0.47	0.57	0.1	0	0	0	0	0	0	0	0
4/26/2024 11:36	15103	UPHA_T2	5	5	0	0.54	0.76	0.22	0.37	0.38	0	0	0	0	0	0
4/26/2024 11:36	40601	PIGR_T1	117	165	48	0.35	0.53	0.18	0.08	0.1	0	0	0	0	0	0
4/26/2024 11:38	24602	VARD_T2	54	587	533	0.26	0.39	0.13	-0.53	-0.67	0	0	0	0	0	0
4/26/2024 11:38	45601	WOOL_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/26/2024 11:38	24603	VARD_T2	10	23	13	1.13	0.83	-0.3	0	0	0	0	0	0	0	0
4/26/2024 11:38	12502	MITR_T2	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
4/26/2024 11:38	45602	WOOL_T1	9	12	3	0.36	0.68	0.32	0.46	0.46	0	0	0	0	0	0
4/26/2024 11:38	12501	MITR_T2	1	1	0	4.4	5.4	1	0	0	0	0	0	0	0	0
4/26/2024 11:38	12505	MITR_T2	2	2	0	0.2	0.85	0.65	1.12	0.77	0	0	0	0	0	0
4/26/2024 11:39	45902	AUBU_T1	1	3	2	1.4	0.73	-0.67	-0.49	-0.52	1	1	0	600	600	0
4/26/2024 11:39	67701	WERN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/26/2024 11:39	60901	DONG_T2	9	13	4	0.51	0.54	0.03	0	0	0	0	0	0	0	0
4/26/2024 11:39	60903	DONG_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/26/2024 11:39	67703	WERN_T2	2	1	-1	0.55	1.1	0.55	0	0	0	0	0	0	0	0
4/26/2024 11:39	60904	DONG_T2	6	9	3	0.45	0.54	0.09	0	0	0	0	0	0	0	0
4/26/2024 11:39	60902	DONG_T2	1	2	1	0.6	0.5	-0.1	0.7	0.77	0	0	0	0	0	0
4/26/2024 11:39	67702	WERN_T2	3	3	0	0.37	0.57	0.2	-0.05	-0.01	0	0	0	0	0	0
4/26/2024 11:40	67701	WERN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/26/2024 11:40	67502	WEWI_T2	27	219	192	0.47	0.28	-0.19	0	0	0	0	0	0	0	0
4/26/2024 11:40	45602	WOOL_T1	9	12	3	0.36	0.68	0.32	0.46	0.4	0	0	0	0	0	0
4/26/2024 11:40	45601	WOOL_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/26/2024 11:40	46203	DANV_T2	7	10	3	0.56	0.59	0.03	0.11	0.09	0	0	0	0	0	0
4/26/2024 11:40	67703	WERN_T2	2	1	-1	0.55	1.1	0.55	0	0	0	0	0	0	0	0
4/26/2024 11:40	67702	WERN_T2	3	3	0	0.37	0.57	0.2	-0.05	-0.01	0	0	0	0	0	0
4/26/2024 11:40	67503	WEWI_T2	2	2	0	0.25	0.3	0.05	0.45	0.44	0	0	0	0	0	0
4/26/2024 11:41	47202	FAXO_T2	0	0	0	0	0	0	-2.29	-2.31	0	0	0	0	0	0
4/26/2024 11:41	50502	MECH_T1	1	2	1	2	1.3	-0.7	0	0	0	0	0	0	0	0
4/26/2024 11:41	47203	FAXO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 11:41	50506	MECH_T1	2	4	2	0.7	0.7	0	0.38	0.36	0	0	0	0	0	0
4/26/2024 11:41	67702	WERN_T2	3	3	0	0.37	0.57	0.2	-0.05	-0.01	0	0	0	0	0	0
4/26/2024 11:41	50503	MECH_T1	1	5	4	1.4	0.46	-0.94	0	0	0	0	0	0	0	0
4/26/2024 11:41	50504	MECH_T1	2	4	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
4/26/2024 11:41	50505	MECH_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/26/2024 11:41	67703	WERN_T2	2	1	-1	0.55	1.1	0.55	0	0	0	0	0	0	0	0
4/26/2024 11:41	45902	AUBU_T1	1	3	2	1.4	0.73	-0.67	-0.49	-0.52	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 11:41	67701	WERN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/26/2024 11:41	50501	MECH_T1	4	5	1	0.8	0.94	0.14	0	0	0	0	0	0	0	0
4/26/2024 11:42	14201	EALL_T1	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
4/26/2024 11:42	67701	WERN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/26/2024 11:42	67703	WERN_T2	2	1	-1	0.55	1.1	0.55	0	0	0	0	0	0	0	0
4/26/2024 11:42	67702	WERN_T2	3	3	0	0.37	0.57	0.2	-0.15	-0.03	0	0	0	0	0	0
4/26/2024 11:42	14203	EALL_T1	1	4	3	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
4/26/2024 11:43	46203	DANV_T2	7	10	3	0.56	0.59	0.03	0.21	0.17	0	0	0	0	0	0
4/26/2024 11:43	67701	WERN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/26/2024 11:43	67702	WERN_T2	3	3	0	0.37	0.57	0.2	0	0	0	0	0	0	0	0
4/26/2024 11:43	67703	WERN_T2	2	1	-1	0.55	1.1	0.55	0.66	0.66	0	0	0	0	0	0
4/26/2024 11:44	46803	HEPB_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/26/2024 11:44	50505	MECH_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/26/2024 11:44	50501	MECH_T1	4	5	1	0.8	0.94	0.14	0	0	0	0	0	0	0	0
4/26/2024 11:44	50502	MECH_T1	1	2	1	2	1.3	-0.7	0	0	0	0	0	0	0	0
4/26/2024 11:44	50504	MECH_T1	2	4	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
4/26/2024 11:44	46801	HEPB_T2	2	2	0	0.4	0.4	0	0.58	0.6	0	0	0	0	0	0
4/26/2024 11:44	50506	MECH_T1	2	4	2	0.7	0.7	0	0.38	0.36	0	0	0	0	0	0
4/26/2024 11:44	63401	HONY_T1	0	0	0	0	0	0	0.33	0.42	1	1	0	600	600	0
4/26/2024 11:44	50503	MECH_T1	1	5	4	1.4	0.46	-0.94	0	0	0	0	0	0	0	0
4/26/2024 11:44	45902	AUBU_T1	1	3	2	1.4	0.73	-0.67	-0.49	-0.52	1	1	0	600	600	0
4/26/2024 11:44	11301	EMMA_T1	4	4	0	0.45	0.55	0.1	-0.85	-0.84	0	0	0	0	0	0
4/26/2024 11:44	11302	EMMA_T1	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0	0
4/26/2024 11:44	11303	EMMA_T1	7	11	4	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
4/26/2024 11:45	50502	MECH_T1	1	2	1	2.1	1.4	-0.7	0	0	0	0	0	0	0	0
4/26/2024 11:45	67503	WEWI_T2	1	4	3	0.4	0.33	-0.07	0.45	0.44	0	0	0	0	0	0
4/26/2024 11:45	40101	HUNT_T2	1	1	0	0.3	0.5	0.2	-0.26	-0.28	0	0	0	0	0	0
4/26/2024 11:45	50505	MECH_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/26/2024 11:45	50506	MECH_T1	2	5	3	0.85	0.64	-0.21	0.38	0.36	0	0	0	0	0	0
4/26/2024 11:45	11301	EMMA_T1	4	5	1	0.38	0.48	0.1	0	0	0	0	0	0	0	0
4/26/2024 11:45	50504	MECH_T1	3	3	0	0.17	0.33	0.16	0	0	0	0	0	0	0	0
4/26/2024 11:45	47202	FAXO_T2	0	1	1	0	0.1	0.1	-2.29	-2.31	0	0	0	0	0	0
4/26/2024 11:45	11303	EMMA_T1	8	13	5	0.6	0.66	0.06	-1.68	-1.67	0	0	0	0	0	0
4/26/2024 11:45	50501	MECH_T1	4	6	2	0.93	0.9	-0.03	0	0	0	0	0	0	0	0
4/26/2024 11:45	11302	EMMA_T1	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
4/26/2024 11:45	47203	FAXO_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/26/2024 11:45	67502	WEWI_T2	130	226	96	0.27	0.29	0.02	0	0	0	0	0	0	0	0
4/26/2024 11:45	50503	MECH_T1	2	5	3	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
4/26/2024 11:46	57306	MOAL_T2	1	3	2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/26/2024 11:46	67603	WARW_T1	6	6	0	0.58	0.53	-0.05	0	0	0	0	0	0	0	0
4/26/2024 11:46	24501	GOUL_T2	2	4	2	0.4	0.35	-0.05	0.04	0.05	0	0	0	0	0	0
4/26/2024 11:46	67605	WARW_T1	44	67	23	0.55	0.63	0.08	-1.12	-1.1	0	0	0	0	0	0
4/26/2024 11:46	57303	MOAL_T2	1	1	0	7	6.9	-0.1	0	0	0	0	0	0	0	0
4/26/2024 11:46	57304	MOAL_T2	30	60	30	0.25	0.36	0.11	-0.6	-0.72	0	0	0	0	0	0
4/26/2024 11:46	67604	WARW_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/26/2024 11:47	63401	HONY_T1	0	0	0	0	0	0	0.33	0.42	1	1	0	600	600	0
4/26/2024 11:47	57303	MOAL_T2	1	1	0	7	6.9	-0.1	0	0	0	0	0	0	0	0
4/26/2024 11:47	57304	MOAL_T2	30	60	30	0.25	0.36	0.11	-0.6	-0.72	0	0	0	0	0	0
4/26/2024 11:47	63404	HONY_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
4/26/2024 11:47	42001	MNVL_T2	33	10	-23	0.35	0.59	0.24	0	0	0	0	0	0	0	0
4/26/2024 11:47	57306	MOAL_T2	1	3	2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/26/2024 11:47	42002	MNVL_T2	3	2	-1	1.47	2	0.53	-0.68	0.34	0	0	0	0	0	0
4/26/2024 11:50	24101	EHAZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/26/2024 11:50	24105	EHAZ_T1	4	4	0	6.9	6.4	-0.5	0	0	0	0	0	0	0	0
4/26/2024 11:50	24103	EHAZ_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/26/2024 11:50	63401	HONY_T1	0	0	0	0	0	0	0.33	0.42	1	1	0	600	600	0
4/26/2024 11:50	63404	HONY_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
4/26/2024 11:50	24104	EHAZ_T1	1	2	1	0.2	0.3	0.1	-0.96	-0.96	1	1	0	1200	1200	0
4/26/2024 11:51	67603	WARW_T1	6	6	0	0.58	0.53	-0.05	0	0	0	0	0	0	0	0
4/26/2024 11:51	59202	THOM_T1	1024	1036	12	1.1	1.1	0	0	0	0	0	0	0	0	0
4/26/2024 11:51	45303	WBER_T2	1	8	7	0.1	0.14	0.04	-0.11	-0.11	0	0	0	0	0	0
4/26/2024 11:51	59201	THOM_T1	123	116	-7	0.81	0.86	0.05	0	0	0	0	0	0	0	0
4/26/2024 11:51	54001	SDLE_T1	139	273	134	0.42	0.36	-0.06	0	0	0	0	0	0	0	0
4/26/2024 11:51	67604	WARW_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/26/2024 11:51	67605	WARW_T1	44	67	23	0.55	0.63	0.08	-1.12	-1.1	0	0	0	0	0	0
4/26/2024 11:52	45902	AUBU_T1	3	4	1	0.67	0.68	0.01	-0.49	-0.52	1	1	0	600	600	0
4/26/2024 11:53	59202	THOM_T1	1024	1036	12	1.1	1.1	0	0	0	0	0	0	0	0	0
4/26/2024 11:53	43801	SWIL_T1	2	2	0	2.9	3	0.1	0	0	0	0	0	0	0	0
4/26/2024 11:53	43802	SWIL_T1	2	4	2	0.65	0.77	0.12	-0.29	-0.31	1	1	0	600	600	0
4/26/2024 11:53	59201	THOM_T1	123	116	-7	0.81	0.86	0.05	0	0	0	0	0	0	0	0
4/26/2024 11:53	54001	SDLE_T1	139	273	134	0.42	0.36	-0.06	0	0	0	0	0	0	0	0
4/26/2024 11:53	14801	TREI_T2	6	8	2	0.8	0.79	-0.01	0.3	0.27	0	0	0	0	0	0
4/26/2024 11:53	14802	TREI_T2	8	11	3	0.66	0.46	-0.2	0.33	0.38	0	0	0	0	0	0
4/26/2024 11:54	14801	TREI_T2	6	8	2	0.8	0.79	-0.01	0	0	0	0	0	0	0	0
4/26/2024 11:54	16302	ALPA_T2	1	2	1	0.1	0.2	0.1	0.71	0.8	0	0	0	0	0	0
4/26/2024 11:54	16401	MOPO_T1	2	6	4	0.3	0.45	0.15	0.2	0.22	0	0	0	0	0	0
4/26/2024 11:54	59102	WALK_T2	22	30	8	0.31	0.35	0.04	0	0	0	0	0	0	0	0
4/26/2024 11:54	16402	MOPO_T1	1	6	5	1	0.67	-0.33	0	0	0	0	0	0	0	0
4/26/2024 11:54	59101	WALK_T2	2	3	1	0.5	0.57	0.07	1.45	1.28	0	0	0	0	0	0
4/26/2024 11:54	16301	ALPA_T1	16	19	3	0.39	0.43	0.04	-0.41	-0.39	0	0	0	0	0	0
4/26/2024 11:54	14802	TREI_T2	8	11	3	0.66	0.46	-0.2	0.38	0.39	0	0	0	0	0	0
4/26/2024 11:55	57002	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 11:55	51301	WIND_T1	13	18	5	0.58	0.52	-0.06	-0.34	-0.35	0	0	0	0	0	0
4/26/2024 11:55	41601	CLEV_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/26/2024 11:55	57006	WHHI_T2	3	5	2	0.73	0.82	0.09	0	0	0	0	0	0	0	0
4/26/2024 11:55	41602	CLEV_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/26/2024 11:55	51305	WIND_T1	3	4	1	0.87	0.78	-0.09	0	0	0	0	0	0	0	0
4/26/2024 11:55	57004	WHHI_T2	0	1	1	0	0.3	0.3	-0.54	-0.51	0	0	0	0	0	0
4/26/2024 11:55	45902	AUBU_T1	3	4	1	0.67	0.68	0.01	-0.52	-0.55	1	1	0	600	600	0
4/26/2024 11:55	51303	WIND_T1	2	5	3	0.7	0.42	-0.28	0	0	0	0	0	0	0	0
4/26/2024 11:56	54001	SDLE_T1	139	273	134	0.42	0.36	-0.06	0	0	0	0	0	0	0	0
4/26/2024 11:56	45303	WBER_T2	1	8	7	0.1	0.14	0.04	-0.11	-0.13	0	0	0	0	0	0
4/26/2024 11:56	23901	EFMO_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/26/2024 11:56	23902	EFMO_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
4/26/2024 11:57	44302	BEAV_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
4/26/2024 11:57	57001	WHHI_T2	0	0	0	0	0	0	-0.05	-0.22	1	1	0	900	900	0
4/26/2024 11:57	57006	WHHI_T2	3	5	2	0.73	0.82	0.09	0	0	0	0	0	0	0	0
4/26/2024 11:57	57004	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/26/2024 11:57	44301	BEAV_T2	5	10	5	0.56	0.46	-0.1	1	0	2	2	0	1200	1200	0
4/26/2024 11:57	57002	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 11:57	45902	AUBU_T1	3	4	1	0.67	0.68	0.01	-0.52	-0.55	1	1	0	600	600	0
4/26/2024 11:58	60101	COCA_T1	2	2	0	0.5	0.75	0.25	0.24	0.21	0	0	0	0	0	0
4/26/2024 11:59	41602	CLEV_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/26/2024 11:59	64303	LINC_T1	1	1	0	0.5	0.8	0.3	-0.24	-0.23	0	0	0	0	0	0
4/26/2024 11:59	41202	KENM_T2	1	1	0	0.1	0.3	0.2	0.54	0.52	0	0	0	0	0	0
4/26/2024 11:59	41601	CLEV_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/26/2024 11:59	41204	KENM_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 11:59	64305	LINC_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/26/2024 12:00	45902	AUBU_T1	3	4	1	0.73	0.78	0.05	-0.52	-0.55	1	1	0	600	600	0
4/26/2024 12:00	51302	WIND_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/26/2024 12:00	63801	HEMP_T1	11	23	12	0.41	0.53	0.12	0.2	0.09	0	0	0	0	0	0
4/26/2024 12:00	51306	WIND_T2	3	3	0	0.5	0.53	0.03	0.1	0.11	0	0	0	0	0	0
4/26/2024 12:00	51304	WIND_T2	2	2	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/26/2024 12:00	63802	HEMP_T1	1	5	4	0.1	0.28	0.18	0	0	0	0	0	0	0	0
4/26/2024 12:00	63804	HEMP_T1	1	4	3	6.7	2.23	-4.47	0	0	0	0	0	0	0	0
4/26/2024 12:00	63803	HEMP_T1	8	14	6	0.38	0.49	0.11	0	0	0	0	0	0	0	0
4/26/2024 12:01	67605	WARW_T1	57	92	35	0.62	0.57	-0.05	-1.1	-1.1	0	0	0	0	0	0
4/26/2024 12:01	63802	HEMP_T1	1	5	4	0.1	0.28	0.18	0	0	0	0	0	0	0	0
4/26/2024 12:01	67603	WARW_T1	4	7	3	0.65	0.57	-0.08	0	0	0	0	0	0	0	0
4/26/2024 12:01	63801	HEMP_T1	11	23	12	0.41	0.53	0.12	0	0	0	0	0	0	0	0
4/26/2024 12:01	63804	HEMP_T1	1	4	3	6.7	2.23	-4.47	0.41	-0.34	0	0	0	0	0	0
4/26/2024 12:01	65501	MOJO_T1	1	1	0	0.5	0.4	-0.1	-0.28	-0.31	1	1	0	900	900	0
4/26/2024 12:01	47103	MARL_T2	1	0	-1	0.1	0	-0.1	-1.24	-1.21	0	0	0	0	0	0
4/26/2024 12:01	67604	WARW_T1	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/26/2024 12:01	63803	HEMP_T1	8	14	6	0.38	0.49	0.11	0	0	0	0	0	0	0	0
4/26/2024 12:02	11402	FARM_T1	5	7	2	0.42	0.54	0.12	0	0	0	0	0	0	0	0
4/26/2024 12:02	16401	MOPO_T1	2	6	4	0.85	0.48	-0.37	0	0	0	0	0	0	0	0
4/26/2024 12:02	11404	FARM_T1	4	2	-2	0.25	0.5	0.25	0	0	0	0	0	0	0	0
4/26/2024 12:02	16402	MOPO_T1	4	6	2	0.9	0.6	-0.3	-0.03	-0.04	0	0	0	0	0	0
4/26/2024 12:02	11405	FARM_T1	4	4	0	0.23	0.35	0.12	-1.08	-1.07	1	1	0	1200	1200	0
4/26/2024 12:05	13105	NHAM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 12:05	12801	MICK_T1	0	0	0	0	0	0	-0.02	0	1	1	0	600	600	0
4/26/2024 12:05	13103	NHAM_T2	0	0	0	0	0	0	-1.75	-1.74	1	1	0	600	600	0
4/26/2024 12:05	54701	NEBL_T1	11	13	2	0.67	0.65	-0.02	0	0	0	0	0	0	0	0
4/26/2024 12:05	12807	MICK_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
4/26/2024 12:06	67604	WARW_T1	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/26/2024 12:06	54001	SDLE_T1	146	293	147	0.41	0.35	-0.06	0	0	0	0	0	0	0	0
4/26/2024 12:06	67605	WARW_T1	57	92	35	0.62	0.57	-0.05	-1.1	-1.1	0	0	0	0	0	0
4/26/2024 12:06	67603	WARW_T1	4	7	3	0.65	0.57	-0.08	0	0	0	0	0	0	0	0
4/26/2024 12:06	16402	MOPO_T1	4	6	2	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
4/26/2024 12:06	16401	MOPO_T1	2	6	4	0.85	0.48	-0.37	0	0	0	0	0	0	0	0
4/26/2024 12:06	16406	MOPO_T1	0	0	0	0	0	0	0.36	0.37	1	1	0	1200	1200	0
4/26/2024 12:07	45303	WBER_T2	6	8	2	0.12	0.14	0.02	-0.11	-0.13	0	0	0	0	0	0
4/26/2024 12:07	59202	THOM_T1	982	1037	55	0.93	1.1	0.17	0	0	0	0	0	0	0	0
4/26/2024 12:07	52502	PROG_T2	5	1	-4	0.7	0.1	-0.6	-1.36	0.5	2	0	-2	1800	0	-1800
4/26/2024 12:07	59201	THOM_T1	100	119	19	0.79	0.85	0.06	0	0	0	0	0	0	0	0
4/26/2024 12:08	61103	BERK_T5	5	8	3	0.2	0.2	0	0	0	0	0	0	0	0	0
4/26/2024 12:08	45902	AUBU_T1	3	4	1	0.73	0.78	0.05	-0.55	-0.55	1	1	0	600	600	0
4/26/2024 12:08	61102	BERK_T5	1	2	1	0.2	0.15	-0.05	0.76	0.86	1	1	0	300	300	0
4/26/2024 12:08	61101	BERK_T5	4	6	2	0.23	0.25	0.02	0	0	0	0	0	0	0	0
4/26/2024 12:09	61302	EARL_T1	1	1	0	1.3	1.5	0.2	0.09	0.07	2	2	0	1800	1800	0
4/26/2024 12:09	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 12:09	15702	TANN_T2	1	1	0	0.5	0.1	-0.4	0.45	0.49	0	0	0	0	0	0
4/26/2024 12:09	61304	EARL_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/26/2024 12:09	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
4/26/2024 12:10	45902	AUBU_T1	3	4	1	0.73	0.78	0.05	-0.55	-0.55	1	1	0	600	600	0
4/26/2024 12:10	15702	TANN_T2	1	1	0	0.5	0.1	-0.4	0.45	0.49	0	0	0	0	0	0
4/26/2024 12:10	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
4/26/2024 12:11	61303	EARL_T1	0	0	0	0	0	0	0.51	0.57	0	0	0	0	0	0
4/26/2024 12:11	57004	WHHI_T2	0	1	1	0	0.3	0.3	-0.51	-0.46	0	0	0	0	0	0
4/26/2024 12:11	45501	DERR_T2	1	7	6	1.4	0.73	-0.67	0.08	-0.36	2	2	0	1800	1800	0
4/26/2024 12:11	54001	SDLE_T1	146	293	147	0.41	0.35	-0.06	0	0	0	0	0	0	0	0
4/26/2024 12:11	61304	EARL_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 12:11	61302	EARL_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
4/26/2024 12:11	57006	WHHI_T2	4	5	1	0.65	0.8	0.15	0	0	0	0	0	0	0	0
4/26/2024 12:11	45502	DERR_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
4/26/2024 12:11	57002	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 12:12	20601	GRWO_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/26/2024 12:12	57004	WHHI_T2	0	1	1	0	0.3	0.3	-0.51	-0.46	0	0	0	0	0	0
4/26/2024 12:12	61304	EARL_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/26/2024 12:12	61303	EARL_T1	0	0	0	0	0	0	1.02	1.15	0	0	0	0	0	0
4/26/2024 12:12	61302	EARL_T1	1	1	0	1.3	1.5	0.2	0.09	0.07	2	2	0	1800	1800	0
4/26/2024 12:12	40702	FFLD_T1	46	111	65	0.2	0.27	0.07	-0.62	-0.48	1	1	0	1200	1200	0
4/26/2024 12:12	40701	FFLD_T1	77	80	3	0.65	0.71	0.06	0	0	0	0	0	0	0	0
4/26/2024 12:12	11804	FRAN_T1	4	4	0	0.83	0.9	0.07	0.9	0.88	0	0	0	0	0	0
4/26/2024 12:12	44502	HAMI_T2	3	4	1	1.1	0.88	-0.22	0	0	0	0	0	0	0	0
4/26/2024 12:12	44504	HAMI_T2	0	0	0	0	0	0	-1.17	-1.17	0	0	0	0	0	0
4/26/2024 12:12	44505	HAMI_T2	2	1	-1	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
4/26/2024 12:12	63802	HEMP_T1	1	5	4	0.1	0.28	0.18	0.16	0.25	0	0	0	0	0	0
4/26/2024 12:12	20603	GRWO_T2	3	4	1	0.6	0.58	-0.02	0.43	0.42	0	0	0	0	0	0
4/26/2024 12:12	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 12:12	11805	FRAN_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/26/2024 12:12	63803	HEMP_T1	8	14	6	0.38	0.49	0.11	0	0	0	0	0	0	0	0
4/26/2024 12:12	57002	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 12:12	57006	WHHI_T2	4	5	1	0.65	0.8	0.15	0	0	0	0	0	0	0	0
4/26/2024 12:12	63804	HEMP_T1	1	4	3	6.7	2.23	-4.47	0	0	0	0	0	0	0	0
4/26/2024 12:12	63801	HEMP_T1	11	23	12	0.41	0.53	0.12	0	0	0	0	0	0	0	0
4/26/2024 12:12	40703	FFLD_T1	4	4	0	0.55	0.68	0.13	0	0	0	0	0	0	0	0
4/26/2024 12:13	50503	MECH_T1	5	9	4	0.46	0.46	0	0	0	0	0	0	0	0	0
4/26/2024 12:13	63803	HEMP_T1	8	14	6	0.38	0.49	0.11	0	0	0	0	0	0	0	0
4/26/2024 12:13	63802	HEMP_T1	1	5	4	0.1	0.28	0.18	0.33	0.5	0	0	0	0	0	0
4/26/2024 12:13	45902	AUBU_T1	3	4	1	0.73	0.78	0.05	-0.55	-0.55	1	1	0	600	600	0
4/26/2024 12:13	63801	HEMP_T1	11	23	12	0.41	0.53	0.12	0	0	0	0	0	0	0	0
4/26/2024 12:13	57006	WHHI_T2	4	5	1	0.65	0.8	0.15	-0.09	-0.15	1	1	0	600	600	0
4/26/2024 12:13	50504	MECH_T1	3	6	3	0.27	0.33	0.06	0	0	0	0	0	0	0	0
4/26/2024 12:13	57002	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 12:13	57004	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/26/2024 12:13	50501	MECH_T1	5	7	2	0.94	0.86	-0.08	0	0	0	0	0	0	0	0
4/26/2024 12:13	63804	HEMP_T1	1	4	3	6.7	2.23	-4.47	0	0	0	0	0	0	0	0
4/26/2024 12:13	50502	MECH_T1	2	2	0	1.3	1.5	0.2	-0.1	-0.11	0	0	0	0	0	0
4/26/2024 12:13	50506	MECH_T1	4	8	4	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/26/2024 12:13	50505	MECH_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/26/2024 12:14	61304	EARL_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/26/2024 12:14	51401	LYKE_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
4/26/2024 12:14	50201	HARR_T3	6	6	0	0.58	0.73	0.15	0	0	0	0	0	0	0	0
4/26/2024 12:14	50103	HARR_T3	3	4	1	0.77	0.78	0.01	-1.06	-1.04	1	1	0	1200	1200	0
4/26/2024 12:14	50107	HARR_T3	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/26/2024 12:14	20601	GRWO_T2	1	2	1	0.2	0.4	0.2	0.08	0.06	0	0	0	0	0	0
4/26/2024 12:14	20603	GRWO_T2	3	4	1	0.6	0.58	-0.02	0	0	0	0	0	0	0	0
4/26/2024 12:14	50105	HARR_T3	6	6	0	5.98	5.82	-0.16	0	0	0	0	0	0	0	0
4/26/2024 12:14	61302	EARL_T1	1	1	0	1.3	1.5	0.2	0.09	0.07	2	2	0	1800	1800	0
4/26/2024 12:15	28703	HAML_T2	3	3	0	0.57	0.8	0.23	0	0	0	0	0	0	0	0
4/26/2024 12:15	42401	GIMA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 12:15	28701	HAML_T2	6	6	0	1.12	1.22	0.1	0	0	0	0	0	0	0	0
4/26/2024 12:15	28704	HAML_T2	1	1	0	0.7	0.8	0.1	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 12:16	45902	AUBU_T1	4	6	2	0.68	0.82	0.14	-0.55	-0.55	1	1	0	600	600	0
4/26/2024 12:16	67604	WARW_T1	3	2	-1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
4/26/2024 12:16	47101	MARL_T1	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
4/26/2024 12:16	59302	MCAL_T1	7	3	-4	0.41	0.4	-0.01	-0.2	0.32	1	0	-1	600	0	-600
4/26/2024 12:16	41502	FAIR_T2	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/26/2024 12:16	51401	LYKE_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
4/26/2024 12:16	64302	LINC_T2	0	0	0	0	0	0	1.11	1.12	0	0	0	0	0	0
4/26/2024 12:16	67605	WARW_T1	67	95	28	0.63	0.57	-0.06	-1.1	-1.11	0	0	0	0	0	0
4/26/2024 12:16	41504	FAIR_T2	0	0	0	0	0	0	-0.91	-0.97	0	0	0	0	0	0
4/26/2024 12:16	67603	WARW_T1	6	4	-2	0.53	0.9	0.37	0	0	0	0	0	0	0	0
4/26/2024 12:16	64304	LINC_T2	1	3	2	0.6	0.47	-0.13	0	0	0	0	0	0	0	0
4/26/2024 12:16	59301	MCAL_T1	60	12	-48	0.4	0.63	0.23	-0.94	-0.98	0	0	0	0	0	0
4/26/2024 12:17	28801	LAKE_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/26/2024 12:17	28805	LAKE_T1	1	1	0	0.7	0.5	-0.2	-0.25	-0.24	0	0	0	0	0	0
4/26/2024 12:18	54206	PENN_T2	4	9	5	0.23	0.27	0.04	0	0	0	0	0	0	0	0
4/26/2024 12:18	54202	PENN_T2	4	6	2	0.2	0.58	0.38	0	0	0	0	0	0	0	0
4/26/2024 12:19	66504	SMAN_T2	6	7	1	0.47	0.63	0.16	-0.54	-0.34	0	0	0	0	0	0
4/26/2024 12:19	59302	MCAL_T1	7	3	-4	0.41	0.4	-0.01	0	0	0	0	0	0	0	0
4/26/2024 12:19	66502	SMAN_T2	20	25	5	0.46	0.43	-0.03	0	0	0	0	0	0	0	0
4/26/2024 12:19	66505	SMAN_T2	2	4	2	0.5	0.5	0	0	0	0	0	0	0	0	0
4/26/2024 12:19	59301	MCAL_T1	60	12	-48	0.4	0.63	0.23	-0.94	-0.98	0	0	0	0	0	0
4/26/2024 12:19	66503	SMAN_T2	1	2	1	0.7	0.5	-0.2	0.33	0.32	0	0	0	0	0	0
4/26/2024 12:19	66501	SMAN_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
4/26/2024 12:19	42201	SHEN_T2	3	1	-2	0.5	1.5	1	0.34	0.33	0	0	0	0	0	0
4/26/2024 12:20	54602	SUMM_T2	8	11	3	0.19	0.24	0.05	0	0	0	0	0	0	0	0
4/26/2024 12:20	66502	SMAN_T2	20	25	5	0.46	0.43	-0.03	0.36	0.29	0	0	0	0	0	0
4/26/2024 12:20	66503	SMAN_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/26/2024 12:20	66501	SMAN_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
4/26/2024 12:20	66505	SMAN_T2	2	4	2	0.5	0.5	0	0	0	0	0	0	0	0	0
4/26/2024 12:20	54601	SUMM_T2	14	13	-1	0.59	0.64	0.05	-1.74	-1.84	2	2	0	2100	2100	0
4/26/2024 12:20	66504	SMAN_T2	6	7	1	0.47	0.63	0.16	-1.61	-1.01	0	0	0	0	0	0
4/26/2024 12:21	45902	AUBU_T1	4	6	2	0.68	0.82	0.14	-0.55	-0.55	1	1	0	600	600	0
4/26/2024 12:21	66505	SMAN_T2	2	4	2	0.5	0.5	0	0	0	0	0	0	0	0	0
4/26/2024 12:21	66504	SMAN_T2	6	7	1	0.47	0.63	0.16	0	0	0	0	0	0	0	0
4/26/2024 12:21	66501	SMAN_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
4/26/2024 12:21	66503	SMAN_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/26/2024 12:21	67605	WARW_T1	67	95	28	0.63	0.57	-0.06	-1.1	-1.11	0	0	0	0	0	0
4/26/2024 12:21	67603	WARW_T1	6	4	-2	0.53	0.9	0.37	0	0	0	0	0	0	0	0
4/26/2024 12:21	67604	WARW_T1	3	2	-1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
4/26/2024 12:21	66502	SMAN_T2	20	25	5	0.46	0.43	-0.03	0.36	0.29	0	0	0	0	0	0
4/26/2024 12:22	54001	SDLE_T1	271	267	-4	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
4/26/2024 12:22	66502	SMAN_T2	20	25	5	0.46	0.43	-0.03	0	0	0	0	0	0	0	0
4/26/2024 12:22	14801	TREI_T2	8	8	0	0.74	0.8	0.06	0	0	0	0	0	0	0	0
4/26/2024 12:22	66503	SMAN_T2	1	2	1	0.7	0.5	-0.2	0.33	0.32	0	0	0	0	0	0
4/26/2024 12:22	66505	SMAN_T2	2	4	2	0.5	0.5	0	0	0	0	0	0	0	0	0
4/26/2024 12:22	14802	TREI_T2	8	11	3	0.45	0.45	0	0.39	0.33	0	0	0	0	0	0
4/26/2024 12:22	66501	SMAN_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
4/26/2024 12:22	43304	WATS_T2	0	0	0	0	0	0	-0.46	-0.52	0	0	0	0	0	0
4/26/2024 12:22	43301	WATS_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 12:22	66504	SMAN_T2	6	7	1	0.47	0.63	0.16	0	0	0	0	0	0	0	0
4/26/2024 12:23	66502	SMAN_T2	20	25	5	0.46	0.43	-0.03	0.87	0.6	0	0	0	0	0	0
4/26/2024 12:23	42802	SELI_T1	1	5	4	1	0.46	-0.54	-0.74	-0.72	1	1	0	900	900	0
4/26/2024 12:23	66503	SMAN_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/26/2024 12:23	60803	BUCK_T1	14	16	2	0.2	0.28	0.08	0	0	0	0	0	0	0	0
4/26/2024 12:23	24105	EHAZ_T1	4	4	0	6.85	6.85	0	0	0	0	0	0	0	0	0
4/26/2024 12:23	24104	EHAZ_T1	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/26/2024 12:23	43304	WATS_T2	0	0	0	0	0	0	-0.46	-0.52	0	0	0	0	0	0
4/26/2024 12:23	43301	WATS_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 12:23	14801	TREI_T2	8	8	0	0.74	0.8	0.06	0	0	0	0	0	0	0	0
4/26/2024 12:23	66504	SMAN_T2	6	7	1	0.47	0.63	0.16	0	0	0	0	0	0	0	0
4/26/2024 12:23	24101	EHAZ_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/26/2024 12:23	24102	EHAZ_T1	0	0	0	0	0	0	-0.29	0.31	0	0	0	0	0	0
4/26/2024 12:23	66501	SMAN_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
4/26/2024 12:23	66505	SMAN_T2	2	4	2	0.5	0.5	0	0	0	0	0	0	0	0	0
4/26/2024 12:23	45902	AUBU_T1	4	6	2	0.68	0.82	0.14	-0.55	-0.52	1	1	0	600	600	0
4/26/2024 12:23	60801	BUCK_T1	22	35	13	0.35	0.3	-0.05	-0.39	-0.36	0	0	0	0	0	0
4/26/2024 12:23	14802	TREI_T2	8	11	3	0.45	0.45	0	0.39	0.33	0	0	0	0	0	0
4/26/2024 12:24	16102	BING_T2	6	6	0	0.48	0.6	0.12	0.05	0.06	0	0	0	0	0	0
4/26/2024 12:24	66502	SMAN_T2	20	25	5	0.46	0.43	-0.03	0.29	0.2	0	0	0	0	0	0
4/26/2024 12:24	11404	FARM_T1	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
4/26/2024 12:24	16103	BING_T2	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
4/26/2024 12:24	66501	SMAN_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
4/26/2024 12:24	11402	FARM_T1	7	7	0	0.49	0.53	0.04	0	0	0	0	0	0	0	0
4/26/2024 12:24	66505	SMAN_T2	2	4	2	0.5	0.5	0	0	0	0	0	0	0	0	0
4/26/2024 12:24	60801	BUCK_T1	22	35	13	0.35	0.3	-0.05	-0.2	-0.18	0	0	0	0	0	0
4/26/2024 12:24	16101	BING_T2	1	3	2	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
4/26/2024 12:24	11405	FARM_T1	3	4	1	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
4/26/2024 12:24	66503	SMAN_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/26/2024 12:24	11401	FARM_T1	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
4/26/2024 12:24	66504	SMAN_T2	6	7	1	0.47	0.63	0.16	0	0	0	0	0	0	0	0
4/26/2024 12:24	60803	BUCK_T1	14	16	2	0.2	0.28	0.08	0	0	0	0	0	0	0	0
4/26/2024 12:25	13701	SCHN_T2	4	5	1	0.43	0.44	0.01	0.03	-0.01	1	1	0	600	600	0
4/26/2024 12:25	45602	WOOL_T1	12	12	0	0.76	0.65	-0.11	0.39	0.39	0	0	0	0	0	0
4/26/2024 12:25	14801	TREI_T2	8	8	0	0.74	0.8	0.06	0	0	0	0	0	0	0	0
4/26/2024 12:25	45601	WOOL_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/26/2024 12:25	14802	TREI_T2	8	11	3	0.45	0.45	0	0.33	0.32	0	0	0	0	0	0
4/26/2024 12:25	60101	COCA_T1	2	3	1	0.75	0.53	-0.22	0	0	0	0	0	0	0	0
4/26/2024 12:25	41602	CLEV_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
4/26/2024 12:25	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 12:25	42701	AUGU_T1	8	6	-2	0.3	0.3	0	0	0	2	2	0	1800	1800	0
4/26/2024 12:25	13704	SCHN_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/26/2024 12:25	60102	COCA_T1	0	0	0	0	0	0	0.52	0.74	2	2	0	1200	1200	0
4/26/2024 12:25	41601	CLEV_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/26/2024 12:26	60801	BUCK_T1	22	35	13	0.35	0.3	-0.05	-0.2	-0.18	0	0	0	0	0	0
4/26/2024 12:26	60803	BUCK_T1	14	16	2	0.2	0.28	0.08	0	0	0	0	0	0	0	0
4/26/2024 12:26	42802	SELI_T1	1	5	4	1	0.46	-0.54	-0.72	-0.75	1	1	0	900	900	0
4/26/2024 12:26	45902	AUBU_T1	4	6	2	0.68	0.82	0.14	-0.55	-0.52	1	1	0	600	600	0
4/26/2024 12:27	12001	HATF_T1	2	2	0	0.15	0.3	0.15	-0.76	-0.82	2	2	0	1800	1800	0
4/26/2024 12:27	12002	HATF_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/26/2024 12:27	64501	LAVI_T1	2	2	0	0.65	0.8	0.15	-0.11	-0.14	0	0	0	0	0	0
4/26/2024 12:27	42701	AUGU_T1	8	6	-2	0.3	0.3	0	0	0	4	4	0	3600	3600	0
4/26/2024 12:27	64502	LAVI_T1	2	8	6	0.5	0.29	-0.21	0	0	0	0	0	0	0	0
4/26/2024 12:27	64503	LAVI_T1	2	4	2	0.35	0.35	0	0	0	0	0	0	0	0	0
4/26/2024 12:27	54001	SDLE_T1	271	267	-4	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
4/26/2024 12:27	12003	HATF_T1	2	2	0	1	1	0	0	0	0	0	0	0	0	0
4/26/2024 12:27	41602	CLEV_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
4/26/2024 12:27	41601	CLEV_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/26/2024 12:27	12006	HATF_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/26/2024 12:28	23901	EFMO_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/26/2024 12:28	23902	EFMO_T2	1	2	1	0.4	0.35	-0.05	0.05	0.06	0	0	0	0	0	0
4/26/2024 12:28	60801	BUCK_T1	22	35	13	0.35	0.3	-0.05	-0.2	-0.18	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 12:28	60803	BUCK_T1	14	16	2	0.2	0.28	0.08	0	0	0	0	0	0	0	0
4/26/2024 12:28	64101	REFR_T1	4	8	4	0.58	0.38	-0.2	-0.63	-0.72	0	0	0	0	0	0
4/26/2024 12:29	20601	GRWO_T2	1	2	1	0.7	0.55	-0.15	0.06	0.12	0	0	0	0	0	0
4/26/2024 12:29	45902	AUBU_T1	4	6	2	0.68	0.82	0.14	-0.55	-0.52	1	1	0	600	600	0
4/26/2024 12:29	51302	WIND_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
4/26/2024 12:29	20603	GRWO_T2	4	4	0	0.55	0.55	0	0	0	0	0	0	0	0	0
4/26/2024 12:29	51306	WIND_T2	3	3	0	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
4/26/2024 12:29	51304	WIND_T2	1	4	3	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/26/2024 12:30	67605	WARW_T1	91	83	-8	0.56	0.62	0.06	0	0	0	0	0	0	0	0
4/26/2024 12:30	12001	HATF_T1	1	2	1	0.2	0.3	0.1	-0.76	-0.82	2	2	0	1800	1800	0
4/26/2024 12:30	60803	BUCK_T1	16	16	0	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
4/26/2024 12:30	12003	HATF_T1	2	2	0	1	1	0	0	0	0	0	0	0	0	0
4/26/2024 12:30	67604	WARW_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/26/2024 12:30	12006	HATF_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/26/2024 12:30	60801	BUCK_T1	25	35	10	0.25	0.31	0.06	-0.2	-0.18	0	0	0	0	0	0
4/26/2024 12:30	12002	HATF_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/26/2024 12:30	67603	WARW_T1	4	5	1	0.85	0.74	-0.11	0.01	0	0	0	0	0	0	0
4/26/2024 12:31	67603	WARW_T1	4	5	1	0.85	0.74	-0.11	0	0	0	0	0	0	0	0
4/26/2024 12:31	67605	WARW_T1	91	83	-8	0.56	0.62	0.06	-1.11	-1.13	0	0	0	0	0	0
4/26/2024 12:31	67604	WARW_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/26/2024 12:32	64501	LAVI_T1	2	3	1	0.75	0.6	-0.15	-0.11	-0.14	0	0	0	0	0	0
4/26/2024 12:32	64503	LAVI_T1	2	4	2	0.35	0.38	0.03	0	0	0	0	0	0	0	0
4/26/2024 12:32	64502	LAVI_T1	8	4	-4	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
4/26/2024 12:32	13302	ORVI_T2	3	3	0	1.13	1.03	-0.1	1.33	1.29	0	0	0	0	0	0
4/26/2024 12:32	64204	KINZ_T1	2	1	-1	0.45	1	0.55	0	0	0	0	0	0	0	0
4/26/2024 12:32	64203	KINZ_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/26/2024 12:32	64202	KINZ_T1	1	2	1	0.2	0.45	0.25	0.61	0.55	0	0	0	0	0	0
4/26/2024 12:33	64203	KINZ_T1	1	0	-1	0.7	0	-0.7	1.42	1.44	1	1	0	600	600	0
4/26/2024 12:33	64202	KINZ_T1	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/26/2024 12:33	64204	KINZ_T1	2	1	-1	0.45	1	0.55	0	0	0	0	0	0	0	0
4/26/2024 12:34	64204	KINZ_T1	2	1	-1	0.45	1	0.55	0	0	0	0	0	0	0	0
4/26/2024 12:34	64202	KINZ_T1	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/26/2024 12:34	13601	RICH_T2	2	1	-1	0.5	0.8	0.3	-0.06	-0.05	1	1	0	600	600	0
4/26/2024 12:34	13606	RICH_T2	2	2	0	4	4	0	0	0	0	0	0	0	0	0
4/26/2024 12:34	64203	KINZ_T1	1	0	-1	0.7	0	-0.7	1.42	1.44	1	1	0	600	600	0
4/26/2024 12:36	67503	WEWI_T2	3	4	1	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
4/26/2024 12:36	54001	SDLE_T1	254	256	2	0.34	0.34	0	0	0	0	0	0	0	0	0
4/26/2024 12:36	67605	WARW_T1	91	83	-8	0.56	0.62	0.06	-1.11	-1.13	0	0	0	0	0	0
4/26/2024 12:36	67502	WEWI_T2	327	265	-62	0.35	0.32	-0.03	-0.4	-0.44	0	0	0	0	0	0
4/26/2024 12:36	13303	ORVI_T1	3	4	1	0.43	0.4	-0.03	-0.24	-0.26	0	0	0	0	0	0
4/26/2024 12:36	41901	REED_T1	2	6	4	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
4/26/2024 12:36	67603	WARW_T1	4	5	1	0.85	0.74	-0.11	0	0	0	0	0	0	0	0
4/26/2024 12:36	41902	REED_T1	4	7	3	0.38	0.8	0.42	1.15	1.09	0	0	0	0	0	0
4/26/2024 12:36	67604	WARW_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/26/2024 12:37	23002	SAJO_T1	1	0	-1	0.8	2	1.2	0	0	0	0	0	0	0	0
4/26/2024 12:37	45902	AUBU_T1	4	7	3	0.78	0.76	-0.02	-0.55	-0.52	1	1	0	600	600	0
4/26/2024 12:37	27503	WEIS_T2	2	8	6	0.25	0.44	0.19	0	0	0	0	0	0	0	0
4/26/2024 12:37	23001	SAJO_T1	0	0	0	0	0	0	-0.96	-0.94	0	0	0	0	0	0
4/26/2024 12:37	27502	WEIS_T2	0	4	4	0	0.5	0.5	0.19	-0.84	0	0	0	0	0	0
4/26/2024 12:39	67505	WEWI_T1	4	4	0	0.95	0.95	0	-0.33	-0.32	1	1	0	900	900	0
4/26/2024 12:39	64301	WATS_T2	2	1	-1	0.2	0.3	0.1	-0.77	-0.75	1	1	0	900	900	0
4/26/2024 12:39	27503	WEIS_T2	2	8	6	0.25	0.44	0.19	0	0	0	0	0	0	0	0
4/26/2024 12:39	45902	AUBU_T1	4	7	3	0.78	0.76	-0.02	-0.52	-0.58	1	1	0	600	600	0
4/26/2024 12:39	27502	WEIS_T2	0	4	4	0	0.5	0.5	-0.42	-0.57	0	0	0	0	0	0
4/26/2024 12:39	16505	STRO_T1	0	0	0	0	0	0.05	0.11	0	0	0	0	0	0	0
4/26/2024 12:39	67501	WEWI_T1	16	19	3	0.59	0.51	-0.08	0	0	0	0	0	0	0	0
4/26/2024 12:40	45902	AUBU_T1	4	7	3	0.78	0.76	-0.02	-0.52	-0.58	1	1	0	600	600	0
4/26/2024 12:40	67502	WEWI_T2	327	265	-62	0.35	0.32	-0.03	-0.44	-0.44	0	0	0	0	0	0
4/26/2024 12:40	67503	WEWI_T2	3	4	1	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
4/26/2024 12:40	67501	WEWI_T1	16	19	3	0.59	0.51	-0.08	0	0	0	0	0	0	0	0
4/26/2024 12:40	67505	WEWI_T1	4	4	0	0.95	0.95	0	-0.33	-0.32	1	1	0	900	900	0
4/26/2024 12:41	41601	CLEV_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/26/2024 12:41	54001	SDLE_T1	254	256	2	0.34	0.34	0	0	0	0	0	0	0	0	0
4/26/2024 12:41	41602	CLEV_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
4/26/2024 12:42	63403	HONY_T2	1	1	0	0.3	0.4	0.1	0	0.01	1	1	0	600	600	0
4/26/2024 12:42	45902	AUBU_T1	4	7	3	0.78	0.76	-0.02	-0.52	-0.58	1	1	0	600	600	0
4/26/2024 12:42	41901	REED_T1	2	6	4	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
4/26/2024 12:42	41502	FAIR_T2	2	3	1	0.1	0.2	0.1	-0.69	-0.69	0	0	0	0	0	0
4/26/2024 12:42	63402	HONY_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/26/2024 12:42	41902	REED_T1	4	7	3	0.38	0.8	0.42	1.09	1.16	0	0	0	0	0	0
4/26/2024 12:43	50105	HARR_T3	6	6	0	5.82	5.95	0.13	0	0	0	0	0	0	0	0
4/26/2024 12:43	50201	HARR_T3	6	6	0	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
4/26/2024 12:43	50103	HARR_T3	4	5	1	0.73	0.66	-0.07	-0.74	-0.75	1	1	0	1200	1200	0
4/26/2024 12:43	41601	CLEV_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/26/2024 12:43	50107	HARR_T3	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/26/2024 12:43	63305	GREE_T1	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
4/26/2024 12:43	63306	GREE_T1	3	3	0	0.37	0.17	-0.2	0	0	0	0	0	0	0	0
4/26/2024 12:43	63304	GREE_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/26/2024 12:43	41602	CLEV_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
4/26/2024 12:44	50107	HARR_T3	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/26/2024 12:44	45902	AUBU_T1	4	7	3	0.78	0.76	-0.02	-0.52	-0.58	1	1	0	600	600	0
4/26/2024 12:44	67503	WEWI_T2	3	4	1	0.53	0.43	-0.1	0.43	0.45	0	0	0	0	0	0
4/26/2024 12:44	50103	HARR_T3	4	5	1	0.73	0.66	-0.07	0	0	0	0	0	0	0	0
4/26/2024 12:44	50201	HARR_T3	6	6	0	0.73	0.7	-0.03	-1.06	-1.06	1	1	0	1200	1200	0
4/26/2024 12:44	50105	HARR_T3	6	6	0	5.82	5.95	0.13	0	0	0	0	0	0	0	0
4/26/2024 12:44	67502	WEWI_T2	327	265	-62	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
4/26/2024 12:44	53501	EVIL_T2	11	6	-5	0.61	0.58	-0.03	-0.16	-0.06	1	1	0	600	600	0
4/26/2024 12:46	41204	KENM_T2	1	0	-1	0.3	0	-0.3	0.25	0.27	0	0	0	0	0	0
4/26/2024 12:46	63305	GREE_T1	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
4/26/2024 12:46	41202	KENM_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/26/2024 12:46	63306	GREE_T1	3	1	-2	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
4/26/2024 12:46	67603	WARW_T1	4	5	1	0.78	0.74	-0.04	0	0	0	0	0	0	0	0
4/26/2024 12:46	67604	WARW_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/26/2024 12:46	67605	WARW_T1	81	70	-11	0.61	0.63	0.02	-1.13	-1.14	0	0	0	0	0	0
4/26/2024 12:48	40602	PIGR_T1	1	5	4	0.4	0.38	-0.02	1.05	1	0	0	0	0	0	0
4/26/2024 12:48	40603	PIGR_T1	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
4/26/2024 12:48	40601	PIGR_T1	145	148	3	0.48	0.52	0.04	0	0	0	0	0	0	0	0
4/26/2024 12:50	40603	PIGR_T1	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
4/26/2024 12:50	67503	WEWI_T2	3	3	0	0.43	0.35	-0.08	0.43	0.45	0	0	0	0	0	0
4/26/2024 12:50	67502	WEWI_T2	256	175	-81	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
4/26/2024 12:50	40601	PIGR_T1	145	148	3	0.48	0.52	0.04	0	0	0	0	0	0	0	0
4/26/2024 12:50	40602	PIGR_T1	1	5	4	0.4	0.38	-0.02	0.53	0.5	0	0	0	0	0	0
4/26/2024 12:51	54506	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 12:51	67805	WLAN_T1	287	3	-284	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/26/2024 12:51	54502	ENOL_T2	4	5	1	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
4/26/2024 12:51	67801	WLAN_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/26/2024 12:51	54505	ENOL_T2	3	3	0	0.7	0.87	0.17	-1.35	-1.38	1	1	0	600	600	0
4/26/2024 12:51	54504	ENOL_T2	1	2	1	1	0.75	-0.25	0	0	0	0	0	0	0	0
4/26/2024 12:51	54503	ENOL_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/26/2024 12:51	67802	WLAN_T1	4	2	-2	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/26/2024 12:51	54501	ENOL_T2	5	4	-1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/26/2024 12:51	67803	WLAN_T1	144	27	-117	0.23	0.47	0.24	-0.9	-0.9	0	0	0	0	0	0
4/26/2024 12:51	54001	SDLE_T1	221	268	47	0.33	0.34	0.01	0	0	0	0	0	0	0	0
4/26/2024 12:51	67804	WLAN_T1	173	64	-109	0.26	0.36	0.1	0	0	0	0	0	0	0	0
4/26/2024 12:52	54502	ENOL_T2	4	5	1	0.3	0.26	-0.04	-1.13	-1.14	1	1	0	600	600	0
4/26/2024 12:52	67804	WLAN_T1	173	64	-109	0.26	0.36	0.1	0	0	0	0	0	0	0	0
4/26/2024 12:52	45902	AUBU_T1	6	7	1	0.8	0.69	-0.11	-0.52	-0.58	1	1	0	600	600	0
4/26/2024 12:52	67805	WLAN_T1	287	3	-284	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/26/2024 12:52	54504	ENOL_T2	1	2	1	1	0.75	-0.25	0	0	0	0	0	0	0	0
4/26/2024 12:52	54501	ENOL_T2	5	4	-1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/26/2024 12:52	67803	WLAN_T1	144	27	-117	0.23	0.47	0.24	-0.9	-0.9	0	0	0	0	0	0
4/26/2024 12:52	54505	ENOL_T2	3	3	0	0.7	0.87	0.17	0	0	0	0	0	0	0	0
4/26/2024 12:52	67801	WLAN_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/26/2024 12:52	54503	ENOL_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/26/2024 12:52	67802	WLAN_T1	4	2	-2	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/26/2024 12:52	54506	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 12:53	67106	SPRI_T2	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
4/26/2024 12:53	49804	UNIV_T1	3	1	-2	0.87	0.3	-0.57	0.5	0.54	0	0	0	0	0	0
4/26/2024 12:53	67102	SPRI_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
4/26/2024 12:53	49803	UNIV_T1	4	2	-2	0.95	0.15	-0.8	0	0	0	0	0	0	0	0
4/26/2024 12:53	67502	WEWI_T2	256	175	-81	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
4/26/2024 12:53	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 12:53	67503	WEWI_T2	3	3	0	0.43	0.35	-0.08	0.45	0.45	0	0	0	0	0	0
4/26/2024 12:54	49804	UNIV_T1	3	1	-2	0.87	0.3	-0.57	0	0	0	0	0	0	0	0
4/26/2024 12:54	54502	ENOL_T2	4	5	1	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
4/26/2024 12:54	49803	UNIV_T1	4	2	-2	0.95	0.15	-0.8	0.12	0.14	0	0	0	0	0	0
4/26/2024 12:54	54505	ENOL_T2	3	3	0	0.7	0.87	0.17	-1.38	-1.38	1	1	0	600	600	0
4/26/2024 12:54	54504	ENOL_T2	1	2	1	1	0.75	-0.25	0	0	0	0	0	0	0	0
4/26/2024 12:54	54506	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 12:54	54503	ENOL_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/26/2024 12:54	54501	ENOL_T2	5	4	-1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/26/2024 12:55	67802	WLAN_T1	4	2	-2	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/26/2024 12:55	67803	WLAN_T1	144	27	-117	0.23	0.47	0.24	-0.9	-0.91	0	0	0	0	0	0
4/26/2024 12:55	67503	WEWI_T2	3	3	0	0.43	0.35	-0.08	0.45	0.45	0	0	0	0	0	0
4/26/2024 12:55	45902	AUBU_T1	6	7	1	0.8	0.69	-0.11	-1.15	-1.24	2	2	0	1200	1200	0
4/26/2024 12:55	67805	WLAN_T1	287	3	-284	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/26/2024 12:55	67502	WEWI_T2	256	175	-81	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
4/26/2024 12:55	67801	WLAN_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
4/26/2024 12:55	67804	WLAN_T1	173	64	-109	0.26	0.36	0.1	0	0	0	0	0	0	0	0
4/26/2024 12:56	60801	BUCK_T1	34	26	-8	0.29	0.33	0.04	-0.19	-0.2	0	0	0	0	0	0
4/26/2024 12:56	54001	SDLE_T1	221	268	47	0.33	0.34	0.01	0	0	0	0	0	0	0	0
4/26/2024 12:56	60803	BUCK_T1	16	14	-2	0.24	0.18	-0.06	0	0	0	0	0	0	0	0
4/26/2024 12:57	67503	WEWI_T2	3	3	0	0.43	0.35	-0.08	0.45	0.45	0	0	0	0	0	0
4/26/2024 12:57	67502	WEWI_T2	256	175	-81	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
4/26/2024 12:58	53902	HALI_T2	7	8	1	1.44	1.33	-0.11	0	0	0	0	0	0	0	0
4/26/2024 12:58	67503	WEWI_T2	3	3	0	0.43	0.35	-0.08	0.45	0.45	0	0	0	0	0	0
4/26/2024 12:58	53901	HALI_T2	5	6	1	0.48	0.58	0.1	-1.09	-1.07	0	0	0	0	0	0
4/26/2024 12:58	67502	WEWI_T2	256	175	-81	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
4/26/2024 12:58	53903	HALI_T2	16	13	-3	0.88	0.88	0	-0.15	-0.14	0	0	0	0	0	0
4/26/2024 12:58	45902	AUBU_T1	6	7	1	0.8	0.69	-0.11	-0.58	-0.62	1	1	0	600	600	0
4/26/2024 12:59	50502	MECH_T1	2	1	-1	1.3	2.4	1.1	0	0	0	0	0	0	0	0
4/26/2024 12:59	50506	MECH_T1	8	5	-3	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/26/2024 12:59	53903	HALI_T2	16	13	-3	0.88	0.88	0	-0.31	-0.29	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 12:59	53902	HALI_T2	7	8	1	1.44	1.33	-0.11	0	0	0	0	0	0	0	0
4/26/2024 12:59	50503	MECH_T1	6	5	-1	0.63	0.54	-0.09	0	0	0	0	0	0	0	0
4/26/2024 12:59	50504	MECH_T1	6	4	-2	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/26/2024 12:59	50505	MECH_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/26/2024 12:59	50501	MECH_T1	5	4	-1	0.96	1.1	0.14	0.35	0.48	0	0	0	0	0	0
4/26/2024 12:59	53901	HALI_T2	5	6	1	0.48	0.58	0.1	-3.28	-3.22	0	0	0	0	0	0
4/26/2024 13:00	53903	HALI_T2	11	15	4	0.91	0.85	-0.06	0	0	0	0	0	0	0	0
4/26/2024 13:00	53902	HALI_T2	8	8	0	1.33	1.34	0.01	0	0	0	0	0	0	0	0
4/26/2024 13:00	67604	WARW_T1	2	1	-1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
4/26/2024 13:00	67605	WARW_T1	69	66	-3	0.62	0.6	-0.02	-1.14	-1.13	0	0	0	0	0	0
4/26/2024 13:00	53901	HALI_T2	6	8	2	0.55	0.4	-0.15	-1.09	-1.07	0	0	0	0	0	0
4/26/2024 13:00	45902	AUBU_T1	7	7	0	0.69	0.73	0.04	-0.58	-0.62	1	1	0	600	600	0
4/26/2024 13:00	67603	WARW_T1	5	6	1	0.74	0.67	-0.07	0	0	0	0	0	0	0	0
4/26/2024 13:01	60803	BUCK_T1	13	6	-7	0.18	0.12	-0.06	0	0	0	0	0	0	0	0
4/26/2024 13:01	67503	WEWI_T2	3	2	-1	0.35	0.3	-0.05	0.45	0.45	0	0	0	0	0	0
4/26/2024 13:01	67502	WEWI_T2	171	135	-36	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
4/26/2024 13:01	25402	LAHA_T2	1	2	1	3.5	1.85	-1.65	-0.19	-0.6	0	0	0	0	0	0
4/26/2024 13:01	60801	BUCK_T1	25	10	-15	0.33	0.55	0.22	-0.19	-0.2	0	0	0	0	0	0
4/26/2024 13:02	53902	HALI_T2	8	8	0	1.33	1.34	0.01	0	0	0	0	0	0	0	0
4/26/2024 13:02	48303	ORWI_T2	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
4/26/2024 13:02	53901	HALI_T2	6	8	2	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
4/26/2024 13:02	53903	HALI_T2	11	15	4	0.91	0.85	-0.06	-0.15	-0.14	0	0	0	0	0	0
4/26/2024 13:02	48302	ORWI_T2	2	3	1	1.45	1.07	-0.38	-0.05	0	0	0	0	0	0	0
4/26/2024 13:05	43106	SMIL_T2	1	1	0	0.1	0.2	0.1	-1.13	-1.03	2	2	0	2400	2400	0
4/26/2024 13:05	43101	SMIL_T2	7	6	-1	1.21	1.22	0.01	0	0	0	0	0	0	0	0
4/26/2024 13:05	43103	SMIL_T2	24	24	0	0.65	0.99	0.34	0	0	0	0	0	0	0	0
4/26/2024 13:05	43105	SMIL_T2	4	3	-1	0.65	0.77	0.12	0	0	0	0	0	0	0	0
4/26/2024 13:05	43102	SMIL_T2	6	6	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/26/2024 13:05	43104	SMIL_T2	5	7	2	0.56	0.54	-0.02	-2.52	-2.58	3	3	0	900	900	0
4/26/2024 13:05	43108	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 13:06	43105	SMIL_T2	4	3	-1	0.65	0.77	0.12	0	0	0	0	0	0	0	0
4/26/2024 13:06	43106	SMIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/26/2024 13:06	43108	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 13:06	43102	SMIL_T2	6	6	0	0.5	0.5	0	-0.83	-0.84	1	1	0	600	600	0
4/26/2024 13:06	43101	SMIL_T2	7	6	-1	1.21	1.22	0.01	0	0	0	0	0	0	0	0
4/26/2024 13:06	43104	SMIL_T2	5	7	2	0.56	0.54	-0.02	0	0	0	0	0	0	0	0
4/26/2024 13:06	43103	SMIL_T2	24	24	0	0.65	0.99	0.34	-0.89	-0.97	0	0	0	0	0	0
4/26/2024 13:07	57004	WHHI_T2	1	1	0	0.2	0.1	-0.1	-0.49	-0.49	0	0	0	0	0	0
4/26/2024 13:07	57002	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/26/2024 13:07	54001	SDLE_T1	237	269	32	0.33	0.34	0.01	0	0	0	0	0	0	0	0
4/26/2024 13:07	57006	WHHI_T2	4	6	2	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
4/26/2024 13:08	54506	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 13:08	54502	ENOL_T2	5	1	-4	0.26	0.8	0.54	0	0	0	0	0	0	0	0
4/26/2024 13:08	54504	ENOL_T2	2	1	-1	0.75	1.4	0.65	0	0	0	0	0	0	0	0
4/26/2024 13:08	45902	AUBU_T1	7	7	0	0.69	0.73	0.04	-0.62	-0.65	1	1	0	600	600	0
4/26/2024 13:08	54501	ENOL_T2	3	5	2	0.77	0.24	-0.53	0	0	0	0	0	0	0	0
4/26/2024 13:08	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/26/2024 13:08	54505	ENOL_T2	3	3	0	0.83	0.73	-0.1	-1.38	-1.38	1	1	0	600	600	0
4/26/2024 13:09	67503	WEWI_T2	3	2	-1	0.35	0.3	-0.05	0.45	0.48	0	0	0	0	0	0
4/26/2024 13:09	43105	SMIL_T2	4	3	-1	0.65	0.77	0.12	0	0	0	0	0	0	0	0
4/26/2024 13:09	43103	SMIL_T2	24	24	0	0.65	0.99	0.34	0	0	0	0	0	0	0	0
4/26/2024 13:09	43108	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 13:09	43102	SMIL_T2	6	6	0	0.5	0.5	0	-0.84	-0.82	1	1	0	600	600	0
4/26/2024 13:09	43101	SMIL_T2	7	6	-1	1.21	1.22	0.01	0	0	0	0	0	0	0	0
4/26/2024 13:09	67502	WEWI_T2	171	135	-36	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
4/26/2024 13:09	43106	SMIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/26/2024 13:09	43104	SMIL_T2	5	7	2	0.56	0.54	-0.02	0	0	0	0	0	0	0	0
4/26/2024 13:11	46203	DANV_T2	5	7	2	0.26	0.6	0.34	0.1	0.09	0	0	0	0	0	0
4/26/2024 13:11	45902	AUBU_T1	7	7	0	0.69	0.73	0.04	-0.62	-0.65	1	1	0	600	600	0
4/26/2024 13:11	67503	WEWI_T2	3	2	-1	0.35	0.3	-0.05	0.45	0.48	0	0	0	0	0	0
4/26/2024 13:11	67502	WEWI_T2	171	135	-36	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
4/26/2024 13:11	54001	SDLE_T1	237	269	32	0.33	0.34	0.01	0	0	0	0	0	0	0	0
4/26/2024 13:12	22003	BOHE_T1	4	4	0	1.33	1.28	-0.05	0	0	0	0	0	0	0	0
4/26/2024 13:12	22001	BOHE_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/26/2024 13:13	26703	HEML_T1	1	2	1	0.1	0.55	0.45	-0.97	-0.97	1	1	0	600	600	0
4/26/2024 13:14	67503	WEWI_T2	3	2	-1	0.35	0.3	-0.05	0.45	0.48	0	0	0	0	0	0
4/26/2024 13:14	45902	AUBU_T1	7	7	0	0.69	0.73	0.04	-0.62	-0.65	1	1	0	600	600	0
4/26/2024 13:14	67502	WEWI_T2	171	135	-36	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
4/26/2024 13:14	40101	HUNT_T2	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
4/26/2024 13:15	59001	MIFF_T1	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
4/26/2024 13:15	67604	WARW_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/26/2024 13:15	67503	WEWI_T2	2	2	0	0.3	0.25	-0.05	0.45	0.48	0	0	0	0	0	0
4/26/2024 13:15	67605	WARW_T1	63	68	5	0.61	0.59	-0.02	-1.13	-1.1	0	0	0	0	0	0
4/26/2024 13:15	67502	WEWI_T2	131	208	77	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
4/26/2024 13:15	40101	HUNT_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
4/26/2024 13:15	67603	WARW_T1	5	6	1	0.68	0.63	-0.05	0	0	0	0	0	0	0	0
4/26/2024 13:15	59002	MIFF_T1	7	6	-1	0.67	0.6	-0.07	0	0	0	0	0	0	0	0
4/26/2024 13:15	59003	MIFF_T1	6	4	-2	0.28	0.23	-0.05	0.6	0.75	0	0	0	0	0	0
4/26/2024 13:16	26704	HEML_T2	1	1	0	0.2	0.2	0	-0.85	-0.83	1	1	0	1200	1200	0
4/26/2024 13:16	45902	AUBU_T1	4	10	6	0.65	0.64	-0.01	-0.62	-0.65	1	1	0	600	600	0
4/26/2024 13:16	67503	WEWI_T2	2	2	0	0.3	0.25	-0.05	0.45	0.48	0	0	0	0	0	0
4/26/2024 13:16	67502	WEWI_T2	131	208	77	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
4/26/2024 13:17	50103	HARR_T3	4	5	1	0.63	0.7	0.07	0	0	0	0	0	0	0	0
4/26/2024 13:17	50202	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 13:17	50105	HARR_T3	6	6	0	5.98	5.93	-0.05	0	0	0	0	0	0	0	0
4/26/2024 13:17	50201	HARR_T3	5	1	-4	0.46	1	0.54	-1.11	-1.11	1	1	0	1200	1200	0
4/26/2024 13:19	59002	MIFF_T1	7	6	-1	0.67	0.6	-0.07	0	0	0	0	0	0	0	0
4/26/2024 13:19	59001	MIFF_T1	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
4/26/2024 13:19	67503	WEWI_T2	2	2	0	0.3	0.25	-0.05	0.45	0.48	0	0	0	0	0	0
4/26/2024 13:19	59003	MIFF_T1	6	4	-2	0.28	0.23	-0.05	0.6	0.75	0	0	0	0	0	0
4/26/2024 13:19	67502	WEWI_T2	131	208	77	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
4/26/2024 13:20	67605	WARW_T1	63	68	5	0.61	0.59	-0.02	-1.13	-1.1	0	0	0	0	0	0
4/26/2024 13:20	51003	NHAR_T1	0	0	0	0	0	0	-1.21	-2.74	0	0	0	0	0	0
4/26/2024 13:20	67603	WARW_T1	5	6	1	0.68	0.63	-0.05	0	0	0	0	0	0	0	0
4/26/2024 13:20	51002	NHAR_T1	1	2	1	0.4	0.75	0.35	0	0	0	0	0	0	0	0
4/26/2024 13:20	67604	WARW_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/26/2024 13:20	51004	NHAR_T1	14	16	2	0.86	0.94	0.08	0	0	0	0	0	0	0	0
4/26/2024 13:21	45902	AUBU_T1	4	10	6	0.65	0.64	-0.01	-0.62	-0.65	1	1	0	600	600	0
4/26/2024 13:21	16203	POFA_T2	8	10	2	0.49	0.32	-0.17	0	0	0	0	0	0	0	0
4/26/2024 13:21	16201	POFA_T2	4	5	1	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
4/26/2024 13:22	16203	POFA_T2	8	10	2	0.49	0.32	-0.17	0	0	0	0	0	0	0	0
4/26/2024 13:22	67703	WERN_T2	2	2	0	0.95	1	0.05	0	0	0	0	0	0	0	0
4/26/2024 13:22	54001	SDLE_T1	252	244	-8	0.33	0.34	0.01	0	0	0	0	0	0	0	0
4/26/2024 13:22	67701	WERN_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/26/2024 13:22	67702	WERN_T2	3	2	-1	0.8	1	0.2	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 13:22	16201	POFA_T2	4	5	1	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
4/26/2024 13:24	45902	AUBU_T1	4	10	6	0.65	0.64	-0.01	-0.65	-0.72	1	1	0	600	600	0
4/26/2024 13:26	51301	WIND_T1	9	6	-3	0.69	0.22	-0.47	0	0	0	0	0	0	0	0
4/26/2024 13:26	54001	SDLE_T1	252	244	-8	0.33	0.34	0.01	0	0	0	0	0	0	0	0
4/26/2024 13:26	45902	AUBU_T1	4	10	6	0.65	0.64	-0.01	-0.65	-0.72	1	1	0	600	600	0
4/26/2024 13:26	51305	WIND_T1	3	3	0	0.9	0.63	-0.27	-0.42	-0.43	0	0	0	0	0	0
4/26/2024 13:26	51303	WIND_T1	3	3	0	0.53	0.45	-0.08	0	0	0	0	0	0	0	0
4/26/2024 13:27	60801	BUCK_T1	10	9	-1	0.54	0.52	-0.02	-0.19	-0.2	0	0	0	0	0	0
4/26/2024 13:27	60803	BUCK_T1	4	4	0	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/26/2024 13:28	53901	HALI_T2	5	7	2	0.44	0.43	-0.01	-1.08	-1.08	0	0	0	0	0	0
4/26/2024 13:28	53902	HALI_T2	6	8	2	1.42	1.36	-0.06	0	0	0	0	0	0	0	0
4/26/2024 13:28	53903	HALI_T2	11	16	5	0.82	0.83	0.01	0	0	0	0	0	0	0	0
4/26/2024 13:29	45902	AUBU_T1	4	10	6	0.65	0.64	-0.01	-0.65	-0.72	1	1	0	600	600	0
4/26/2024 13:29	14204	EALL_T2	3	4	1	0.27	0.25	-0.02	0.38	0.35	0	0	0	0	0	0
4/26/2024 13:30	67603	WARW_T1	6	5	-1	0.6	0.66	0.06	0	0	0	0	0	0	0	0
4/26/2024 13:30	67604	WARW_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/26/2024 13:30	67605	WARW_T1	61	70	9	0.61	0.6	-0.01	-1.1	-1.12	0	0	0	0	0	0
4/26/2024 13:32	12807	MICK_T1	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/26/2024 13:32	60504	NMAN_T2	3	3	0	1.4	1.53	0.13	0	0	0	0	0	0	0	0
4/26/2024 13:32	60501	NMAN_T2	25	26	1	0.92	0.9	-0.02	0	0	0	0	0	0	0	0
4/26/2024 13:32	60502	NMAN_T2	3	9	6	0.63	0.34	-0.29	-0.32	-0.29	0	0	0	0	0	0
4/26/2024 13:32	12802	MICK_T1	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
4/26/2024 13:33	60504	NMAN_T2	3	3	0	1.4	1.53	0.13	0	0	0	0	0	0	0	0
4/26/2024 13:33	60801	BUCK_T1	6	10	4	0.57	0.5	-0.07	-0.19	-0.2	0	0	0	0	0	0
4/26/2024 13:33	60502	NMAN_T2	3	9	6	0.63	0.34	-0.29	-0.32	-0.29	0	0	0	0	0	0
4/26/2024 13:33	60501	NMAN_T2	25	26	1	0.92	0.9	-0.02	0	0	0	0	0	0	0	0
4/26/2024 13:33	60803	BUCK_T1	4	1	-3	0.1	0.1	0	0	0	0	0	0	0	0	0
4/26/2024 13:35	67603	WARW_T1	6	5	-1	0.6	0.66	0.06	0	0	0	0	0	0	0	0
4/26/2024 13:35	67604	WARW_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/26/2024 13:35	67605	WARW_T1	61	70	9	0.61	0.6	-0.01	-1.1	-1.12	0	0	0	0	0	0
4/26/2024 13:36	54004	SDLE_T1	225	285	60	0.34	0.36	0.02	0	0	0	0	0	0	0	0
4/26/2024 13:36	16504	STRO_T1	0	1	1	0	0.1	0.1	0.16	0.2	1	1	0	1200	1200	0
4/26/2024 13:37	45902	AUBU_T1	7	16	9	0.59	0.57	-0.02	-0.65	-0.72	1	1	0	600	600	0
4/26/2024 13:37	45901	AUBU_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/26/2024 13:38	67701	WERN_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/26/2024 13:38	67702	WERN_T2	2	2	0	1	0.9	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 13:38	67703	WERN_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
4/26/2024 13:39	60701	BREC_T1	4	3	-1	0.18	0.47	0.29	0.08	0.08	1	1	0	600	600	0
4/26/2024 13:39	67703	WERN_T2	2	2	0	1	1	0	1.44	1.3	0	0	0	0	0	0
4/26/2024 13:39	67701	WERN_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/26/2024 13:39	67702	WERN_T2	2	2	0	1	0.9	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 13:40	41602	CLEV_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
4/26/2024 13:40	45902	AUBU_T1	7	16	9	0.59	0.57	-0.02	-0.72	-0.89	1	1	0	600	600	0
4/26/2024 13:40	45901	AUBU_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/26/2024 13:40	41601	CLEV_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
4/26/2024 13:40	67702	WERN_T2	2	2	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
4/26/2024 13:40	67703	WERN_T2	2	2	0	1	1	0	0.72	0.65	0	0	0	0	0	0
4/26/2024 13:40	67701	WERN_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/26/2024 13:41	67702	WERN_T2	2	2	0	1	0.9	-0.1	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 13:41	50505	MECH_T1	0	1	1	0	0.7	0.7	-0.89	-0.93	0	0	0	0	0	0
4/26/2024 13:41	41602	CLEV_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
4/26/2024 13:41	50503	MECH_T1	3	10	7	0.57	0.35	-0.22	0	0	0	0	0	0	0	0
4/26/2024 13:41	50504	MECH_T1	1	6	5	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/26/2024 13:41	50502	MECH_T1	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
4/26/2024 13:41	67703	WERN_T2	2	2	0	1	1	0	1.44	1.3	0	0	0	0	0	0
4/26/2024 13:41	50501	MECH_T1	5	6	1	0.78	0.77	-0.01	0	0	0	0	0	0	0	0
4/26/2024 13:41	41601	CLEV_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
4/26/2024 13:41	54001	SDLE_T1	225	285	60	0.34	0.36	0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 13:41	67701	WERN_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/26/2024 13:41	50506	MECH_T1	3	5	2	0.17	0.78	0.61	0	0	0	0	0	0	0	0
4/26/2024 13:41	60701	BREC_T1	4	3	-1	0.18	0.47	0.29	0.16	0.16	2	2	0	1200	1200	0
4/26/2024 13:42	45902	AUBU_T1	7	16	9	0.59	0.57	-0.02	-0.72	-0.89	1	1	0	600	600	0
4/26/2024 13:42	45901	AUBU_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/26/2024 13:43	44301	BEAV_T2	0	1	1	0	0.4	0.4	0.58	0.8	1	1	0	600	600	0
4/26/2024 13:43	24701	FLND_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
4/26/2024 13:43	67703	WERN_T2	2	2	0	1	1	0	0.72	0.65	0	0	0	0	0	0
4/26/2024 13:43	67701	WERN_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/26/2024 13:43	60803	BUCK_T1	4	1	-3	0.1	0.1	0	0	0	0	0	0	0	0	0
4/26/2024 13:43	24702	FLND_T2	4	4	0	1	1.13	0.13	0	0	0	0	0	0	0	0
4/26/2024 13:43	67702	WERN_T2	2	2	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
4/26/2024 13:43	60801	BUCK_T1	6	10	4	0.57	0.5	-0.07	-0.2	-0.2	0	0	0	0	0	0
4/26/2024 13:44	41602	CLEV_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
4/26/2024 13:44	41502	FAIR_T2	1	3	2	0.1	0.13	0.03	-0.71	-0.71	0	0	0	0	0	0
4/26/2024 13:44	41601	CLEV_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
4/26/2024 13:45	67604	WARW_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/26/2024 13:45	45902	AUBU_T1	10	46	36	0.64	0.51	-0.13	-0.72	-0.89	1	1	0	600	600	0
4/26/2024 13:45	50503	MECH_T1	2	11	9	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
4/26/2024 13:45	12401	MILF_T1	2	3	1	0.7	0.73	0.03	0	0	0	0	0	0	0	0
4/26/2024 13:45	50501	MECH_T1	5	5	0	0.86	0.96	0.1	0	0	0	0	0	0	0	0
4/26/2024 13:45	12402	MILF_T1	1	1	0	2.3	2.3	0	0.15	0.18	0	0	0	0	0	0
4/26/2024 13:45	50502	MECH_T1	1	3	2	2.3	0.97	-1.33	-2.01	-2.08	0	0	0	0	0	0
4/26/2024 13:45	12403	MILF_T1	2	3	1	1.45	1.13	-0.32	0	0	0	0	0	0	0	0
4/26/2024 13:45	45901	AUBU_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
4/26/2024 13:45	50504	MECH_T1	4	6	2	0.35	0.45	0.1	0	0	0	0	0	0	0	0
4/26/2024 13:45	67603	WARW_T1	3	6	3	0.93	0.62	-0.31	0	0	0	0	0	0	0	0
4/26/2024 13:45	67605	WARW_T1	62	70	8	0.59	0.59	0	-1.12	-1.11	0	0	0	0	0	0
4/26/2024 13:45	50505	MECH_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/26/2024 13:45	50506	MECH_T1	4	8	4	0.63	0.63	0	0	0	0	0	0	0	0	0
4/26/2024 13:49	60803	BUCK_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/26/2024 13:49	60801	BUCK_T1	7	11	4	0.57	0.52	-0.05	-0.2	-0.2	0	0	0	0	0	0
4/26/2024 13:50	60502	NMAN_T2	3	9	6	0.5	0.39	-0.11	-0.58	-0.76	0	0	0	0	0	0
4/26/2024 13:50	60504	NMAN_T2	3	3	0	1.47	1.53	0.06	0	0	0	0	0	0	0	0
4/26/2024 13:50	67605	WARW_T1	62	70	8	0.59	0.59	0	-1.12	-1.11	0	0	0	0	0	0
4/26/2024 13:50	60501	NMAN_T2	12	27	15	1.58	0.88	-0.7	0	0	0	0	0	0	0	0
4/26/2024 13:50	67604	WARW_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/26/2024 13:50	67603	WARW_T1	3	6	3	0.93	0.62	-0.31	0	0	0	0	0	0	0	0
4/26/2024 13:51	54001	SDLE_T1	207	302	95	0.35	0.37	0.02	0	0	0	0	0	0	0	0
4/26/2024 13:51	65602	QVIL_T2	1	0	-1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/26/2024 13:51	65604	QVIL_T2	0	0	0	0	0	0	0.4	0.35	0	0	0	0	0	0
4/26/2024 13:51	65601	QVIL_T2	4	3	-1	0.28	0.3	0.02	0	0	0	0	0	0	0	0
4/26/2024 13:53	45901	AUBU_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
4/26/2024 13:53	45902	AUBU_T1	10	46	36	0.64	0.51	-0.13	-0.89	-0.96	1	1	0	600	600	0
4/26/2024 13:54	13701	SCHN_T2	3	4	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/26/2024 13:54	13704	SCHN_T2	2	5	3	0.35	0.3	-0.05	-0.35	-0.34	0	0	0	0	0	0
4/26/2024 13:55	45901	AUBU_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
4/26/2024 13:55	45902	AUBU_T1	10	46	36	0.64	0.51	-0.13	-0.89	-0.96	1	1	0	600	600	0
4/26/2024 13:56	45902	AUBU_T1	10	46	36	0.64	0.51	-0.13	-2.66	-2.87	3	3	0	1800	1800	0
4/26/2024 13:56	15704	TANN_T1	6	8	2	0.48	0.6	0.12	-1.18	-1.18	0	0	0	0	0	0
4/26/2024 13:56	45901	AUBU_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
4/26/2024 13:56	54001	SDLE_T1	207	302	95	0.35	0.37	0.02	0	0	0	0	0	0	0	0
4/26/2024 13:56	61803	EELI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/26/2024 13:56	48303	ORWI_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
4/26/2024 13:56	61801	EELI_T2	2	9	7	0.45	0.38	-0.07	-0.43	-0.34	0	0	0	0	0	0
4/26/2024 13:56	15701	TANN_T1	3	4	1	2	1.73	-0.27	0	0	0	0	0	0	0	0
4/26/2024 13:56	48302	ORWI_T2	3	3	0	1.13	1.4	0.27	0	0	0	0	0	0	0	0
4/26/2024 13:57	45902	AUBU_T1	10	46	36	0.64	0.51	-0.13	-0.89	-0.96	1	1	0	600	600	0
4/26/2024 13:57	45901	AUBU_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
4/26/2024 13:58	45902	AUBU_T1	10	46	36	0.64	0.51	-0.13	-0.89	-0.96	1	1	0	600	600	0
4/26/2024 13:58	23901	EFMO_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/26/2024 13:58	64101	REFR_T1	5	7	2	0.54	0.44	-0.1	-0.67	-0.76	0	0	0	0	0	0
4/26/2024 13:58	45901	AUBU_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
4/26/2024 13:58	23902	EFMO_T2	2	3	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
4/26/2024 13:59	60801	BUCK_T1	7	11	4	0.57	0.52	-0.05	-0.2	-0.19	0	0	0	0	0	0
4/26/2024 13:59	60803	BUCK_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/26/2024 14:00	67605	WARW_T1	67	68	1	0.6	0.59	-0.01	-1.11	-1.08	0	0	0	0	0	0
4/26/2024 14:00	67604	WARW_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/26/2024 14:00	67603	WARW_T1	5	6	1	0.62	0.67	0.05	0	0	0	0	0	0	0	0
4/26/2024 14:01	45901	AUBU_T1	2	3	1	0.15	0.37	0.22	0	0	0	0	0	0	0	0
4/26/2024 14:01	45902	AUBU_T1	16	46	30	0.56	0.51	-0.05	-0.89	-0.96	1	1	0	600	600	0
4/26/2024 14:02	64404	LAND_T2	5	5	0	0.58	0.64	0.06	0	0	0	0	0	0	0	0
4/26/2024 14:02	64402	LAND_T2	3	6	3	0.5	0.45	-0.05	-0.42	-0.41	1	1	0	600	600	0
4/26/2024 14:03	42903	MIDD_T2	2	2	0	0.15	0.9	0.75	0	0	0	0	0	0	0	0
4/26/2024 14:03	42902	MIDD_T2	4	17	13	0.75	0.68	-0.07	-1.14	-1.15	1	1	0	600	600	0
4/26/2024 14:04	60803	BUCK_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/26/2024 14:04	67701	WERN_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/26/2024 14:04	46302	ROHR_T1	9	12	3	1.27	1.08	-0.19	0	0	0	0	0	0	0	0
4/26/2024 14:04	60801	BUCK_T1	10	10	0	0.48	0.58	0.1	-0.2	-0.19	0	0	0	0	0	0
4/26/2024 14:04	67703	WERN_T2	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
4/26/2024 14:04	67702	WERN_T2	2	3	1	0.85	0.87	0.02	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 14:04	46301	ROHR_T1	15	32	17	0.64	0.4	-0.24	0.18	0.19	0	0	0	0	0	0
4/26/2024 14:05	67605	WARW_T1	67	68	1	0.6	0.59	-0.01	-1.11	-1.08	0	0	0	0	0	0
4/26/2024 14:05	13302	ORVI_T2	3	3	0	0.97	1	0.03	1.3	1.43	0	0	0	0	0	0
4/26/2024 14:05	67603	WARW_T1	5	6	1	0.62	0.67	0.05	0	0	0	0	0	0	0	0
4/26/2024 14:05	46301	ROHR_T1	15	32	17	0.64	0.4	-0.24	0.18	0.19	0	0	0	0	0	0
4/26/2024 14:05	46302	ROHR_T1	9	12	3	1.27	1.08	-0.19	0	0	0	0	0	0	0	0
4/26/2024 14:05	67604	WARW_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/26/2024 14:06	65602	QVIL_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/26/2024 14:06	55101	WERT_T1	0	0	0	0	0	0	-1.75	-2.46	2	6	4	1800	4800	3000
4/26/2024 14:06	65601	QVIL_T2	2	3	1	0.35	0.27	-0.08	0	0	0	0	0	0	0	0
4/26/2024 14:06	65603	QVIL_T2	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
4/26/2024 14:07	14401	SSLA_T1	6	5	-1	0.7	0.74	0.04	0	0	0	0	0	0	0	0
4/26/2024 14:07	14403	SSLA_T1	5	6	1	0.32	0.4	0.08	0.64	0.63	0	0	0	0	0	0
4/26/2024 14:07	54001	SDLE_T1	277	307	30	0.36	0.38	0.02	0	0	0	0	0	0	0	0
4/26/2024 14:07	46302	ROHR_T1	9	12	3	1.27	1.08	-0.19	0	0	0	0	0	0	0	0
4/26/2024 14:07	14402	SSLA_T1	5	7	2	0.54	0.55	0.01	0	0	0	0	0	0	0	0
4/26/2024 14:07	46301	ROHR_T1	15	32	17	0.64	0.4	-0.24	0.18	0.19	0	0	0	0	0	0
4/26/2024 14:07	14404	SSLA_T1	6	8	2	1.53	1.26	-0.27	0	0	0	0	0	0	0	0
4/26/2024 14:07	55101	WERT_T1	0	0	0	0	0	0	-0.87	-1.23	1	3	2	900	2400	1500
4/26/2024 14:08	45901	AUBU_T1	2	3	1	0.15	0.37	0.22	0	0	0	0	0	0	0	0
4/26/2024 14:08	55101	WERT_T1	0	0	0	0	0	0	-1.23	-1.26	1	3	2	900	2400	1500
4/26/2024 14:08	45902	AUBU_T1	16	46	30	0.56	0.51	-0.05	-0.96	-0.99	1	1	0	600	600	0
4/26/2024 14:09	55101	WERT_T1	0	0	0	0	0	0	-2.46	-2.51	2	6	4	1800	4800	3000
4/26/2024 14:10	45901	AUBU_T1	2	3	1	0.15	0.37	0.22	0	0	0	0	0	0	0	0
4/26/2024 14:10	55101	WERT_T1	0	0	0	0	0	0	-6.16	-6.28	15	15	0	12000	12000	0
4/26/2024 14:10	45902	AUBU_T1	16	46	30	0.56	0.51	-0.05	-0.96	-0.99	1	1	0	600	600	0
4/26/2024 14:11	55101	WERT_T1	0	0	0	0	0	0	-1.23	-1.26	3	3	0	2400	2400	0
4/26/2024 14:11	54001	SDLE_T1	277	307	30	0.36	0.38	0.02	0	0	0	0	0	0	0	0
4/26/2024 14:12	45902	AUBU_T1	16	46	30	0.56	0.51	-0.05	-1.91	-1.98	2	2	0	1200	1200	0
4/26/2024 14:12	61303	EARL_T1	0	0	0	0	0	0	0.58	0.5	0	0	0	0	0	0
4/26/2024 14:12	45901	AUBU_T1	2	3	1	0.15	0.37	0.22	0	0	0	0	0	0	0	0
4/26/2024 14:12	61302	EARL_T1	3	3	0	0.57	0.67	0.1	0	0	0	0	0	0	0	0
4/26/2024 14:12	61304	EARL_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/26/2024 14:14	45901	AUBU_T1	2	3	1	0.15	0.37	0.22	0	0	0	0	0	0	0	0
4/26/2024 14:14	45902	AUBU_T1	16	46	30	0.56	0.51	-0.05	-0.96	-0.99	1	1	0	600	600	0
4/26/2024 14:15	67604	WARW_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/26/2024 14:15	67605	WARW_T1	58	72	14	0.57	0.54	-0.03	-1.08	-1.09	0	0	0	0	0	0
4/26/2024 14:15	67603	WARW_T1	6	6	0	0.62	0.63	0.01	0	0	0	0	0	0	0	0
4/26/2024 14:16	45902	AUBU_T1	46	21	-25	0.5	0.56	0.06	-0.96	-0.99	1	1	0	600	600	0
4/26/2024 14:16	45901	AUBU_T1	3	1	-2	0.33	0.4	0.07	0	0	0	0	0	0	0	0
4/26/2024 14:18	26402	INOR_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/26/2024 14:18	10801	OHHI_T1	8	9	1	1.13	0.92	-0.21	-1.04	-1.04	1	1	0	900	900	0
4/26/2024 14:18	26401	INOR_T1	2	4	2	3.75	2.13	-1.62	0.86	0.87	0	0	0	0	0	0
4/26/2024 14:18	45702	LIND_T2	2	5	3	0.85	0.68	-0.17	-0.5	-0.51	0	0	0	0	0	0
4/26/2024 14:19	50503	MECH_T1	11	8	-3	0.35	0.43	0.08	0	0	0	0	0	0	0	0
4/26/2024 14:19	54505	ENOL_T2	3	3	0	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
4/26/2024 14:19	50502	MECH_T1	3	3	0	0.97	0.87	-0.1	0	0	0	0	0	0	0	0
4/26/2024 14:19	54501	ENOL_T2	1	3	2	0.1	0.5	0.4	0.07	0.07	0	0	0	0	0	0
4/26/2024 14:19	54502	ENOL_T2	2	5	3	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
4/26/2024 14:19	54503	ENOL_T2	1	3	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/26/2024 14:19	54504	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
4/26/2024 14:19	54506	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/26/2024 14:19	50504	MECH_T1	6	5	-1	0.43	0.44	0.01	0	0	0	0	0	0	0	0
4/26/2024 14:19	50506	MECH_T1	8	8	0	0.63	0.59	-0.04	0	0	0	0	0	0	0	0
4/26/2024 14:19	50501	MECH_T1	5	5	0	0.96	0.92	-0.04	0.64	0.57	0	0	0	0	0	0
4/26/2024 14:19	50505	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 14:20	42001	MNVL_T2	37	98	61	0.34	0.25	-0.09	-0.09	-0.01	0	0	0	0	0	0
4/26/2024 14:20	12807	MICK_T1	1	1	0	0.2	0.4	0.2	0.16	0.17	0	0	0	0	0	0
4/26/2024 14:20	13105	NHAM_T2	0	0	0	0	0	0	-0.86	-0.81	1	1	0	1200	1200	0
4/26/2024 14:20	46004	BERW_T2	1	3	2	0.2	0.37	0.17	-0.54	-0.63	0	0	0	0	0	0
4/26/2024 14:20	42002	MNVL_T2	2	2	0	2.05	2	-0.05	0	0	0	0	0	0	0	0
4/26/2024 14:21	67604	WARW_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/26/2024 14:21	67603	WARW_T1	6	6	0	0.62	0.63	0.01	0	0	0	0	0	0	0	0
4/26/2024 14:21	67605	WARW_T1	58	72	14	0.57	0.54	-0.03	-1.08	-1.09	0	0	0	0	0	0
4/26/2024 14:22	45902	AUBU_T1	46	21	-25	0.5	0.56	0.06	-0.96	-0.99	1	1	0	600	600	0
4/26/2024 14:22	45901	AUBU_T1	3	1	-2	0.33	0.4	0.07	0	0	0	0	0	0	0	0
4/26/2024 14:23	60701	BREC_T1	4	5	1	0.43	0.28	-0.15	0.08	0.13	1	1	0	600	600	0
4/26/2024 14:25	45901	AUBU_T1	3	1	-2	0.33	0.4	0.07	0	0	0	0	0	0	0	0
4/26/2024 14:25	67703	WERN_T2	2	2	0	0.95	0.9	-0.05	0.68	0.67	0	0	0	0	0	0
4/26/2024 14:25	64305	LINC_T1	0	0	0	0	0	0	-0.11	0.12	0	0	0	0	0	0
4/26/2024 14:25	45902	AUBU_T1	46	21	-25	0.5	0.56	0.06	-0.99	-0.38	1	0	-1	600	0	-600
4/26/2024 14:25	42802	SELI_T1	0	0	0	0	0	0	0.78	-0.78	1	1	0	900	900	0
4/26/2024 14:25	67701	WERN_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/26/2024 14:25	67702	WERN_T2	2	3	1	0.7	0.97	0.27	0	0	0	0	0	0	0	0
4/26/2024 14:25	64303	LINC_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/26/2024 14:26	29402	BELT_T1	2	5	3	3.8	1.62	-2.18	0	0	0	0	0	0	0	0
4/26/2024 14:26	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/26/2024 14:27	41601	CLEV_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
4/26/2024 14:27	41602	CLEV_T1	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
4/26/2024 14:27	45902	AUBU_T1	46	21	-25	0.5	0.56	0.06	0	0	0	0	0	0	0	0
4/26/2024 14:27	45901	AUBU_T1	3	1	-2	0.33	0.4	0.07	1.64	1.59	0	0	0	0	0	0
4/26/2024 14:28	45901	AUBU_T1	3	1	-2	0.33	0.4	0.07	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 14:28	61302	EARL_T1	1	4	3	1.4	0.63	-0.77	0	0	0	0	0	0	0	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
4/26/2024 14:28	64101	REFR_T1	7	6	-1	0.41	0.42	0.01	-0.7	-0.73	0	0	0	0	0	0
4/26/2024 14:28	53301	GRAT_T1	0	0	0	0	0	0	0	0	4	4	0	1800	1800	0
4/26/2024 14:28	45902	AUBU_T1	46	21	-25	0.5	0.56	0.06	-0.99	-0.38	1	0	-1	600	0	-600
4/26/2024 14:28	41601	CLEV_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
4/26/2024 14:28	61304	EARL_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/26/2024 14:28	41602	CLEV_T1	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
4/26/2024 14:29	50501	MECH_T1	5	5	0	0.96	0.92	-0.04	0	0	0	0	0	0	0	0
4/26/2024 14:29	50503	MECH_T1	11	8	-3	0.35	0.43	0.08	0	0	0	0	0	0	0	0
4/26/2024 14:29	50505	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 14:29	50506	MECH_T1	8	8	0	0.63	0.59	-0.04	0.01	0	0	0	0	0	0	0
4/26/2024 14:29	61302	EARL_T1	1	4	3	1.4	0.63	-0.77	0	0	0	0	0	0	0	0
4/26/2024 14:29	50504	MECH_T1	6	5	-1	0.43	0.44	0.01	0	0	0	0	0	0	0	0
4/26/2024 14:29	61304	EARL_T1	1	1	0	0.4	0.5	0.1	-0.31	-0.33	0	0	0	0	0	0
4/26/2024 14:29	50502	MECH_T1	3	3	0	0.97	0.87	-0.1	0	0	0	0	0	0	0	0
4/26/2024 14:29	14204	EALL_T2	4	7	3	0.4	0.36	-0.04	-0.41	-0.43	0	0	0	0	0	0
4/26/2024 14:29	64101	REFR_T1	7	6	-1	0.41	0.42	0.01	-0.7	-0.73	0	0	0	0	0	0
4/26/2024 14:30	41802	GOCI_T2	11	16	5	0.13	0.16	0.03	0	0	0	0	0	0	0	0
4/26/2024 14:30	45902	AUBU_T1	21	6	-15	0.56	0.73	0.17	-0.99	-0.38	1	0	-1	600	0	-600
4/26/2024 14:30	45901	AUBU_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/26/2024 14:30	41801	GOCI_T2	293	356	63	0.81	1.2	0.39	0	0	0	0	0	0	0	0
4/26/2024 14:30	64101	REFR_T1	6	4	-2	0.38	0.45	0.07	-0.7	-0.73	0	0	0	0	0	0
4/26/2024 14:31	67604	WARW_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/26/2024 14:31	53301	GRAT_T1	0	2	2	0	0.15	0.15	0	0	2	2	0	900	900	0
4/26/2024 14:31	45801	HEGI_T1	0	0	0	0	0	0	-0.16	-0.12	1	1	0	900	900	0
4/26/2024 14:31	67605	WARW_T1	66	64	-2	0.55	0.6	0.05	-1.09	-1.08	0	0	0	0	0	0
4/26/2024 14:31	67603	WARW_T1	6	5	-1	0.62	0.64	0.02	0	0	0	0	0	0	0	0
4/26/2024 14:32	64101	REFR_T1	6	4	-2	0.38	0.45	0.07	-0.7	-0.73	0	0	0	0	0	0
4/26/2024 14:33	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 14:33	65205	PRIN_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
4/26/2024 14:36	42002	MNVL_T2	1	2	1	4	2	-2	0.28	0.31	0	0	0	0	0	0
4/26/2024 14:36	67604	WARW_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/26/2024 14:36	67603	WARW_T1	6	5	-1	0.62	0.64	0.02	0	0	0	0	0	0	0	0
4/26/2024 14:36	67605	WARW_T1	66	64	-2	0.55	0.6	0.05	-1.09	-1.08	0	0	0	0	0	0
4/26/2024 14:36	42001	MNVL_T2	64	97	33	0.25	0.25	0	0	0	0	0	0	0	0	0
4/26/2024 14:36	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 14:37	20401	ASHF_T2	5	9	4	0.2	0.28	0.08	0	0	0	0	0	0	0	0
4/26/2024 14:37	20403	ASHF_T2	53	75	22	0.47	0.84	0.37	0.1	-0.09	0	0	0	0	0	0
4/26/2024 14:37	54001	SDLE_T1	291	257	-34	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
4/26/2024 14:37	20402	ASHF_T2	5	4	-1	0.28	0.4	0.12	0	0	0	0	0	0	0	0
4/26/2024 14:37	13606	RICH_T2	2	2	0	3.85	3.8	-0.05	1.02	0.88	0	0	0	0	0	0
4/26/2024 14:40	20402	ASHF_T2	5	4	-1	0.28	0.4	0.12	0	0	0	0	0	0	0	0
4/26/2024 14:40	45901	AUBU_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/26/2024 14:40	20403	ASHF_T2	53	75	22	0.47	0.84	0.37	0	0	0	0	0	0	0	0
4/26/2024 14:40	45902	AUBU_T1	21	6	-15	0.56	0.73	0.17	-0.38	-0.4	0	0	0	0	0	0
4/26/2024 14:40	20401	ASHF_T2	5	9	4	0.2	0.28	0.08	-0.44	-0.39	0	0	0	0	0	0
4/26/2024 14:41	54001	SDLE_T1	291	257	-34	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
4/26/2024 14:42	10801	CHHI_T1	7	9	2	0.84	1.02	0.18	-1.04	-1.02	1	1	0	900	900	0
4/26/2024 14:42	54001	SDLE_T1	291	257	-34	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
4/26/2024 14:43	45901	AUBU_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/26/2024 14:43	53502	EVIL_T2	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
4/26/2024 14:43	53501	EVIL_T2	9	14	5	0.68	0.56	-0.12	0	0	0	0	0	0	0	0
4/26/2024 14:43	45902	AUBU_T1	21	6	-15	0.56	0.73	0.17	-0.38	-0.4	0	0	0	0	0	0
4/26/2024 14:43	47203	FAXO_T2	0	0	0	0	0	0	-1.61	-1.57	1	1	0	1200	1200	0
4/26/2024 14:46	44201	POIN_T1	17	83	66	0.2	0.18	-0.02	-2.22	-2.25	2	2	0	2100	2100	0
4/26/2024 14:46	45902	AUBU_T1	6	3	-3	0.73	1.03	0.3	-0.38	-0.4	0	0	0	0	0	0
4/26/2024 14:47	24702	FLND_T2	0	2	2	0	1	1	0.81	0.94	0	0	0	0	0	0
4/26/2024 14:48	44201	POIN_T1	17	83	66	0.2	0.18	-0.02	-2.22	-2.25	2	2	0	2100	2100	0
4/26/2024 14:49	54502	ENOL_T2	2	3	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/26/2024 14:49	54503	ENOL_T2	2	1	-1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
4/26/2024 14:49	45902	AUBU_T1	6	3	-3	0.73	1.03	0.3	-0.38	-0.4	0	0	0	0	0	0
4/26/2024 14:49	54501	ENOL_T2	2	3	1	0.2	0.37	0.17	0.11	0.09	0	0	0	0	0	0
4/26/2024 14:49	54505	ENOL_T2	3	3	0	0.7	0.83	0.13	0	0	0	0	0	0	0	0
4/26/2024 14:49	54506	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/26/2024 14:49	54504	ENOL_T2	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
4/26/2024 14:51	44201	POIN_T1	17	83	66	0.2	0.18	-0.02	-2.22	-2.25	2	2	0	2100	2100	0
4/26/2024 14:52	40601	PIGR_T1	223	219	-4	0.54	0.56	0.02	0	0	0	0	0	0	0	0
4/26/2024 14:52	40603	PIGR_T1	2	2	0	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
4/26/2024 14:52	40602	PIGR_T1	1	3	2	0.5	0.27	-0.23	0.47	0.47	0	0	0	0	0	0
4/26/2024 14:52	54001	SDLE_T1	244	231	-13	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
4/26/2024 14:53	66901	SHIL_T2	3	3	0	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
4/26/2024 14:53	66903	SHIL_T2	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
4/26/2024 14:53	66902	SHIL_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
4/26/2024 14:54	45902	AUBU_T1	6	3	-3	0.73	1.03	0.3	-0.4	-0.32	0	0	0	0	0	0
4/26/2024 14:54	16302	ALPA_T2	1	2	1	0.1	0.2	0.1	1.36	1.45	0	0	0	0	0	0
4/26/2024 14:55	16301	ALPA_T1	28	35	7	0.45	0.39	-0.06	-0.37	-0.38	0	0	0	0	0	0
4/26/2024 14:55	16302	ALPA_T2	1	2	1	0.1	0.2	0.1	0.68	0.72	0	0	0	0	0	0
4/26/2024 14:56	45902	AUBU_T1	6	3	-3	0.73	1.03	0.3	-0.4	-0.32	0	0	0	0	0	0
4/26/2024 14:57	16302	ALPA_T2	1	2	1	0.1	0.2	0.1	0.68	0.72	0	0	0	0	0	0
4/26/2024 14:57	53501	EVIL_T2	9	14	5	0.48	0.54	0.06	0	0	0	0	0	0	0	0
4/26/2024 14:57	53502	EVIL_T2	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
4/26/2024 14:57	54001	SDLE_T1	244	231	-13	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
4/26/2024 14:58	41602	CLEV_T1	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
4/26/2024 14:58	41601	CLEV_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/26/2024 14:58	63804	HEMP_T1	3	2	-1	2.23	3.25	1.02	1.03	-0.26	0	0	0	0	0	0
4/26/2024 14:58	63803	HEMP_T1	8	5	-3	0.46	0.46	0	0	0	0	0	0	0	0	0
4/26/2024 14:58	63802	HEMP_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
4/26/2024 14:58	40902	JESH_T1	2	2	0	0.3	0.35	0.05	-0.51	-0.4	0	0	0	0	0	0
4/26/2024 14:58	63801	HEMP_T1	16	12	-4	0.51	0.44	-0.07	0	0	0	0	0	0	0	0
4/26/2024 14:59	41601	CLEV_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/26/2024 14:59	41602	CLEV_T1	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
4/26/2024 14:59	63804	HEMP_T1	3	2	-1	2.23	3.25	1.02	1.03	-0.26	0	0	0	0	0	0
4/26/2024 14:59	63803	HEMP_T1	8	5	-3	0.46	0.46	0	0	0	0	0	0	0	0	0
4/26/2024 14:59	63802	HEMP_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
4/26/2024 14:59	63801	HEMP_T1	16	12	-4	0.51	0.44	-0.07	0	0	0	0	0	0	0	0
4/26/2024 14:59	45902	AUBU_T1	6	3	-3	0.73	1.03	0.3	-0.4	-0.32	0	0	0	0	0	0
4/26/2024 15:00	63803	HEMP_T1	3	8	5	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
4/26/2024 15:00	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 15:00	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 15:00	22101	EDEL_T2	1	1	0	0.2	0.1	-0.1	0.33	0.36	1	1	0	1200	1200	0
4/26/2024 15:00	67605	WARW_T1	64	80	16	0.6	0.63	0.03	-1.1	-1.11	0	0	0	0	0	0
4/26/2024 15:00	67605	WARW_T1	64	80	16	0.6	0.63	0.03	-1.1	-1.11	0	0	0	0	0	0
4/26/2024 15:00	67605	WARW_T1	64	80	16	0.6	0.63	0.03	-1.1	-1.11	0	0	0	0	0	0
4/26/2024 15:00	67605	WARW_T1	64	80	16	0.6	0.63	0.03	-1.1	-1.11	0	0	0	0	0	0
4/26/2024 15:00	63804	HEMP_T1	1	2	1	6.5	3.05	-3.45	1.03	-0.26	0	0	0	0	0	0
4/26/2024 15:00	63801	HEMP_T1	9	12	3	0.47	0.48	0.01	0	0	0	0	0	0	0	0
4/26/2024 15:00	40902	JESH_T1	2	3	1	0.35	0.13	-0.22	-1.03	-0.81	0	0	0	0	0	0
4/26/2024 15:00	67603	WARW_T1	5	6	1	0.6	0.73	0.13	0	0	0	0	0	0	0	0
4/26/2024 15:01	45902	AUBU_T1	3	3	0	1.03	0.53	-0.5	-0.4	-0.32	0	0	0	0	0	0
4/26/2024 15:03	13502	MCMI_T1	12	11	-1	0.43	0.5	0.07	0	0	0	0	0	0	0	0
4/26/2024 15:03	63804	HEMP_T1	1	2	1	6.5	3.05	-3.45	1.03	-0.26	0	0	0	0	0	0
4/26/2024 15:03	63801	HEMP_T1	9	12	3	0.47	0.48	0.01	0	0	0	0	0	0	0	0
4/26/2024 15:03	63803	HEMP_T1	3	8	5	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
4/26/2024 15:03	13501	MCMI_T1	1	0	-1	0.2	0	-0.2	0.07	0.08	0	0	0	0	0	0
4/26/2024 15:03	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 15:04	40902	JESH_T1	2	3	1	0.35	0.13	-0.22	-0.51	-0.4	0	0	0	0	0	0
4/26/2024 15:04	47001	HUGH_T2	1	2	1	0.4	0.45	0.05	-0.13	-0.17	0	0	0	0	0	0
4/26/2024 15:04	47002	HUGH_T2	1	3	2	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
4/26/2024 15:05	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 15:05	67603	WARW_T1	5	6	1	0.6	0.73	0.13	0	0	0	0	0	0	0	0
4/26/2024 15:05	67605	WARW_T1	64	80	16	0.6	0.63	0.03	-1.1	-1.11	0	0	0	0	0	0
4/26/2024 15:05	67605	WARW_T1	64	80	16	0.6	0.63	0.03	-1.1	-1.11	0	0	0	0	0	0
4/26/2024 15:05	67605	WARW_T1	64	80	16	0.6	0.63	0.03	-1.1	-1.11	0	0	0	0	0	0
4/26/2024 15:05	67605	WARW_T1	64	80	16	0.6	0.63	0.03	-1.1	-1.11	0	0	0	0	0	0
4/26/2024 15:05	47101	MARL_T1	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
4/26/2024 15:07	24101	EHAZ_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
4/26/2024 15:07	24102	EHAZ_T1	0	1	1	0	0.1	0.1	0.18	0.13	0	0	0	0	0	0
4/26/2024 15:07	24104	EHAZ_T1	2	3	1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
4/26/2024 15:07	24105	EHAZ_T1	4	4	0	6.38	6.1	-0.28	0	0	0	0	0	0	0	0
4/26/2024 15:07	24103	EHAZ_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
4/26/2024 15:08	60701	BREC_T1	3	4	1	0.5	0.63	0.13	0.1	0.05	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 15:08	47002	HUGH_T2	1	3	2	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
4/26/2024 15:08	47001	HUGH_T2	1	2	1	0.4	0.45	0.05	-0.13	-0.17	0	0	0	0	0	0
4/26/2024 15:09	67201	TEHI_T1	1	2	1	0.1	0.85	0.75	0.42	0.6	1	1	0	600	600	0
4/26/2024 15:09	67203	TEHI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 15:10	43106	SMIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/26/2024 15:10	14404	SSLA_T1	7	5	-2	1.14	1.82	0.68	0	0	0	0	0	0	0	0
4/26/2024 15:10	17903	BART_T1	0	0	0	0	0	0	0.36	0.31	0	0	0	0	0	0
4/26/2024 15:10	43103	SMIL_T2	26	26	0	1	0.88	-0.12	-0.82	-0.89	0	0	0	0	0	0
4/26/2024 15:10	14402	SSLA_T1	5	7	2	0.42	0.27	-0.15	0	0	0	0	0	0	0	0
4/26/2024 15:10	43105	SMIL_T2	12	10	-2	0.33	0.35	0.02	0	0	0	0	0	0	0	0
4/26/2024 15:10	43104	SMIL_T2	9	7	-2	0.63	0.66	0.03	-1.68	-1.7	2	2	0	600	600	0
4/26/2024 15:10	14403	SSLA_T1	5	5	0	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
4/26/2024 15:10	43108	SMIL_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/26/2024 15:10	43102	SMIL_T2	9	7	-2	0.56	0.76	0.2	0	0	0	0	0	0	0	0
4/26/2024 15:10	43101	SMIL_T2	8	8	0	1.05	1.05	0	0	0	0	0	0	0	0	0
4/26/2024 15:10	14401	SSLA_T1	3	7	4	0.93	0.8	-0.13	-0.53	-0.57	0	0	0	0	0	0
4/26/2024 15:10	17901	BART_T1	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
4/26/2024 15:11	60701	BREC_T1	3	4	1	0.5	0.63	0.13	0.1	0.05	1	1	0	600	600	0
4/26/2024 15:11	41301	FISH_T1	7	4	-3	1.09	1.48	0.39	-0.05	-0.03	0	0	0	0	0	0
4/26/2024 15:14	40902	JESH_T1	2	3	1	0.35	0.13	-0.22	-0.4	-0.45	0	0	0	0	0	0
4/26/2024 15:15	67605	WARW_T1	72	75	3	0.62	0.67	0.05	-1.11	-1.11	0	0	0	0	0	0
4/26/2024 15:15	67604	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/26/2024 15:15	67603	WARW_T1	6	6	0	0.68	0.72	0.04	0	0	0	0	0	0	0	0
4/26/2024 15:17	64902	MILL_T2	0	0	0	0	0	0	0.22	0.27	0	0	0	0	0	0
4/26/2024 15:17	64702	LITI_T2	0	0	0	0	0	0	-0.61	-0.4	0	0	0	0	0	0
4/26/2024 15:17	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
4/26/2024 15:19	40902	JESH_T1	2	3	1	0.15	0.1	-0.05	-0.4	-0.45	0	0	0	0	0	0
4/26/2024 15:20	67605	WARW_T1	72	75	3	0.62	0.67	0.05	-1.11	-1.11	0	0	0	0	0	0
4/26/2024 15:20	67604	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/26/2024 15:20	67603	WARW_T1	6	6	0	0.68	0.72	0.04	0	0	0	0	0	0	0	0
4/26/2024 15:21	59202	THOM_T1	1001	1052	51	1.05	1.15	0.1	0	0	0	0	0	0	0	0
4/26/2024 15:21	59201	THOM_T1	117	127	10	0.75	0.83	0.08	0	0	0	0	0	0	0	0
4/26/2024 15:22	43304	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 15:22	43301	WATS_T2	3	2	-1	0.37	0.4	0.03	-0.75	-0.74	1	1	0	900	900	0
4/26/2024 15:22	43302	WATS_T2	4	4	0	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
4/26/2024 15:24	43302	WATS_T2	4	4	0	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
4/26/2024 15:24	43301	WATS_T2	3	2	-1	0.37	0.4	0.03	-0.74	-0.77	1	1	0	900	900	0
4/26/2024 15:24	43304	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 15:25	59202	THOM_T1	1001	1052	51	1.05	1.15	0.1	0	0	0	0	0	0	0	0
4/26/2024 15:25	43301	WATS_T2	3	2	-1	0.37	0.4	0.03	-0.74	-0.77	1	1	0	900	900	0
4/26/2024 15:25	43304	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 15:25	43302	WATS_T2	4	4	0	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
4/26/2024 15:25	59201	THOM_T1	117	127	10	0.75	0.83	0.08	0	0	0	0	0	0	0	0
4/26/2024 15:26	43302	WATS_T2	4	4	0	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
4/26/2024 15:26	51305	WIND_T1	3	3	0	0.8	0.77	-0.03	0	0	0	0	0	0	0	0
4/26/2024 15:26	43304	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 15:26	43301	WATS_T2	3	2	-1	0.37	0.4	0.03	-1.48	-1.53	2	2	0	1800	1800	0
4/26/2024 15:26	51301	WIND_T1	13	11	-2	0.51	0.55	0.04	0	0	0	0	0	0	0	0
4/26/2024 15:26	45902	AUBU_T1	3	3	0	0.53	0.43	-0.1	-0.26	-0.3	0	0	0	0	0	0
4/26/2024 15:26	51303	WIND_T1	2	1	-1	0.7	1.1	0.4	0	0	0	0	0	0	0	0
4/26/2024 15:28	45902	AUBU_T1	3	3	0	0.53	0.43	-0.1	-0.26	-0.3	0	0	0	0	0	0
4/26/2024 15:28	10903	COOP_T2	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
4/26/2024 15:28	10901	COOP_T2	0	0	0	0	0	0	1.26	1.3	0	0	0	0	0	0
4/26/2024 15:29	14201	EALL_T1	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/26/2024 15:29	14203	EALL_T1	6	6	0	0.8	0.78	-0.02	-0.2	-0.19	1	1	0	1200	1200	0
4/26/2024 15:30	67603	WARW_T1	6	5	-1	0.72	0.66	-0.06	0	0	0	0	0	0	0	0
4/26/2024 15:30	67605	WARW_T1	74	70	-4	0.65	0.65	0	-1.11	-1.14	0	0	0	0	0	0
4/26/2024 15:31	45902	AUBU_T1	2	3	1	0.15	0.43	0.28	-0.26	-0.3	0	0	0	0	0	0
4/26/2024 15:33	64702	LITI_T2	0	0	0	0	0	0	-0.4	-0.54	0	0	0	0	0	0
4/26/2024 15:33	45902	AUBU_T1	2	3	1	0.15	0.43	0.28	-0.26	-0.3	0	0	0	0	0	0
4/26/2024 15:35	67605	WARW_T1	74	70	-4	0.65	0.65	0	-1.11	-1.14	0	0	0	0	0	0
4/26/2024 15:35	67603	WARW_T1	6	5	-1	0.72	0.66	-0.06	0	0	0	0	0	0	0	0
4/26/2024 15:38	44201	POIN_T1	125	237	112	0.17	0.24	0.07	-2.35	-2.33	2	2	0	2100	2100	0
4/26/2024 15:38	14602	SWHI_T1	4	3	-1	0.63	0.7	0.07	0	0	0	0	0	0	0	0
4/26/2024 15:38	43301	WATS_T2	2	1	-1	0.35	0.6	0.25	-0.74	-0.77	1	1	0	900	900	0
4/26/2024 15:38	43302	WATS_T2	4	4	0	0.43	0.18	-0.25	0	0	0	0	0	0	0	0
4/26/2024 15:38	14601	SWHI_T1	1	1	0	0.3	0.3	0	-0.37	-0.36	0	0	0	0	0	0
4/26/2024 15:38	14603	SWHI_T1	3	3	0	0.73	0.53	-0.2	0	0	0	0	0	0	0	0
4/26/2024 15:40	43301	WATS_T2	2	1	-1	0.35	0.6	0.25	-0.77	-0.77	1	1	0	900	900	0
4/26/2024 15:40	44201	POIN_T1	125	237	112	0.17	0.24	0.07	-2.33	-2.38	2	2	0	2100	2100	0
4/26/2024 15:40	43302	WATS_T2	4	4	0	0.43	0.18	-0.25	0	0	0	0	0	0	0	0
4/26/2024 15:41	45902	AUBU_T1	2	3	1	0.15	0.43	0.28	-0.3	-0.27	0	0	0	0	0	0
4/26/2024 15:41	44201	POIN_T1	125	237	112	0.17	0.24	0.07	-2.33	-2.38	2	2	0	2100	2100	0
4/26/2024 15:43	45902	AUBU_T1	2	3	1	0.15	0.43	0.28	-0.3	-0.27	0	0	0	0	0	0
4/26/2024 15:43	64101	REFR_T1	6	2	-4	0.25	0.25	0	-1.48	-1.5	0	0	0	0	0	0
4/26/2024 15:43	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 15:43	41802	GOCI_T2	9	10	1	0.11	0.13	0.02	0	0	0	0	0	0	0	0
4/26/2024 15:43	41801	GOCI_T2	352	342	-10	1.18	1.17	-0.01	0	0	0	0	0	0	0	0
4/26/2024 15:44	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 15:44	45902	AUBU_T1	2	3	1	0.15	0.43	0.28	-0.3	-0.27	0	0	0	0	0	0
4/26/2024 15:45	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 15:45	67605	WARW_T1	70	54	-16	0.64	0.64	0	-1.14	-1.09	0	0	0	0	0	0
4/26/2024 15:45	67603	WARW_T1	5	5	0	0.66	0.6	-0.06	0	0	0	0	0	0	0	0
4/26/2024 15:46	45902	AUBU_T1	3	3	0	0.43	0.43	0	-0.3	-0.27	0	0	0	0	0	0
4/26/2024 15:46	64101	REFR_T1	2	4	2	0.25	0.2	-0.05	-2.22	-2.25	0	0	0	0	0	0
4/26/2024 15:48	41802	GOCI_T2	8	12	4	0.13	0.14	0.01	0	0	0	0	0	0	0	0
4/26/2024 15:48	41801	GOCI_T2	341	334	-7	1.15	1.14	-0.01	0	0	0	0	0	0	0	0
4/26/2024 15:49	45902	AUBU_T1	3	3	0	0.43	0.43	0	-0.3	-0.27	0	0	0	0	0	0
4/26/2024 15:49	64702	LITI_T2	0	0	0	0	0	0	-0.54	-0.4	0	0	0	0	0	0
4/26/2024 15:50	67603	WARW_T1	5	5	0	0.66	0.6	-0.06	0	0	0	0	0	0	0	0
4/26/2024 15:50	46301	ROHR_T1	44	54	10	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/26/2024 15:50	12403	MILF_T1	3	7	4	1.17	0.66	-0.51	0	0	0	0	0	0	0	0
4/26/2024 15:50	12402	MILF_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
4/26/2024 15:50	46302	ROHR_T1	10	9	-1	1.23	1.34	0.11	0.1	0.1	0	0	0	0	0	0
4/26/2024 15:50	12401	MILF_T1	3	3	0	0.37	0.37	0	-0.39	-0.39	0	0	0	0	0	0
4/26/2024 15:50	67605	WARW_T1	70	54	-16	0.64	0.64	0	-1.14	-1.09	0	0	0	0	0	0
4/26/2024 15:51	66503	SMAN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/26/2024 15:51	66501	SMAN_T2	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
4/26/2024 15:51	66504	SMAN_T2	3	1	-2	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
4/26/2024 15:51	66505	SMAN_T2	3	0	-3	0.6	0	-0.6	0.1	0.09	2	2	0	1100	1100	0
4/26/2024 15:51	66502	SMAN_T2	14	9	-5	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
4/26/2024 15:52	66505	SMAN_T2	3	0	-3	0.6	0	-0.6	0.21	0.18	4	4	0	2200	2200	0
4/26/2024 15:52	59201	THOM_T1	121	116	-5	0.81	0.84	0.03	0	0	0	0	0	0	0	0
4/26/2024 15:52	66501	SMAN_T2	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
4/26/2024 15:52	46301	ROHR_T1	44	54	10	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/26/2024 15:52	66503	SMAN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/26/2024 15:52	46302	ROHR_T1	10	9	-1	1.23	1.34	0.11	0.1	0.1	0	0	0	0	0	0
4/26/2024 15:52	66504	SMAN_T2	3	1	-2	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
4/26/2024 15:52	66502	SMAN_T2	14	9	-5	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
4/26/2024 15:52	59202	THOM_T1	1016	1005	-11	1.06	1.08	0.02	0	0	0	0	0	0	0	0
4/26/2024 15:53	29402	BELT_T1	2	1	-1	3.65	7.1	3.45	0	0	0	0	0	0	0	0
4/26/2024 15:53	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 15:54	45902	AUBU_T1	3	3	0	0.43	0.43	0	-0.54	-0.59	0	0	0	0	0	0
4/26/2024 15:54	67501	WEWI_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
4/26/2024 15:54	13701	SCHN_T2	7	7	0	0.43	0.4	-0.03	0	0.03	1	1	0	600	600	0
4/26/2024 15:54	13704	SCHN_T2	8	6	-2	0.36	0.37	0.01	-0.34	-0.35	0	0	0	0	0	0
4/26/2024 15:54	67505	WEWI_T1	1	0	-1	0.1	0	-0.1	-0.24	-0.28	1	1	0	900	900	0
4/26/2024 15:55	46001	BERW_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
4/26/2024 15:55	67502	WEWI_T2	70	50	-20	0.24	0.23	-0.01	0.49	0.58	0	0	0	0	0	0
4/26/2024 15:55	46005	BERW_T1	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/26/2024 15:55	67503	WEWI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/26/2024 15:55	15104	UPHA_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
4/26/2024 15:55	15103	UPHA_T2	4	4	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
4/26/2024 15:57	46001	BERW_T1	0	0	0	0	0	0	1.13	1.11	0	0	0	0	0	0
4/26/2024 15:57	45902	AUBU_T1	3	3	0	0.43	0.43	0	-0.27	-0.29	0	0	0	0	0	0
4/26/2024 15:57	46005	BERW_T1	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/26/2024 15:58	13704	SCHN_T2	8	6	-2	0.36	0.37	0.01	-0.34	-0.35	0	0	0	0	0	0
4/26/2024 15:58	41801	GOCI_T2	341	334	-7	1.15	1.14	-0.01	0	0	0	0	0	0	0	0
4/26/2024 15:58	13701	SCHN_T2	7	7	0	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
4/26/2024 15:58	41802	GOCI_T2	8	12	4	0.13	0.14	0.01	0	0	0	0	0	0	0	0
4/26/2024 15:59	45902	AUBU_T1	3	3	0	0.43	0.43	0	-0.27	-0.29	0	0	0	0	0	0
4/26/2024 15:59	40902	JESH_T1	0	1	1	0	0.3	0.3	-0.42	-0.4	0	0	0	0	0	0
4/26/2024 15:59	41801	GOCI_T2	341	334	-7	1.15	1.14	-0.01	0	0	0	0	0	0	0	0
4/26/2024 15:59	41802	GOCI_T2	8	12	4	0.13	0.14	0.01	0	0	0	0	0	0	0	0
4/26/2024 16:00	67605	WARW_T1	53	55	2	0.65	0.55	-0.1	-1.09	-1.09	0	0	0	0	0	0
4/26/2024 16:00	52002	LING_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 16:00	52006	LING_T2	3	3	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
4/26/2024 16:00	11803	FRAN_T2	8	7	-1	0.85	0.71	-0.14	0	0	0	0	0	0	0	0
4/26/2024 16:00	11801	FRAN_T2	1	1	0	0.4	0.2	-0.2	0.07	0.09	0	0	0	0	0	0
4/26/2024 16:00	52004	LING_T2	5	5	0	0.42	0.26	-0.16	0.12	0.12	0	0	0	0	0	0
4/26/2024 16:00	67603	WARW_T1	4	4	0	0.55	0.63	0.08	0	0	0	0	0	0	0	0
4/26/2024 16:02	52004	LING_T2	5	5	0	0.42	0.26	-0.16	0.12	0.12	0	0	0	0	0	0
4/26/2024 16:02	46001	BERW_T1	0	1	1	0	0.1	0.1	0.56	0.55	0	0	0	0	0	0
4/26/2024 16:02	45902	AUBU_T1	1	3	2	0.8	0.43	-0.37	-0.27	-0.29	0	0	0	0	0	0
4/26/2024 16:02	52006	LING_T2	3	3	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
4/26/2024 16:02	52002	LING_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 16:02	46005	BERW_T1	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
4/26/2024 16:03	40902	JESH_T1	0	1	1	0	0.3	0.3	-0.42	-0.4	0	0	0	0	0	0
4/26/2024 16:03	47403	PENS_T1	3	3	0	0.4	0.93	0.53	0	0	0	0	0	0	0	0
4/26/2024 16:03	47402	PENS_T1	2	2	0	0.85	0.9	0.05	0	0	0	0	0	0	0	0
4/26/2024 16:03	47401	PENS_T1	5	4	-1	0.86	1.05	0.19	1.06	1.06	0	0	0	0	0	0
4/26/2024 16:05	64702	LITI_T2	0	0	0	0	0	0	-0.4	-0.6	0	0	0	0	0	0
4/26/2024 16:05	67603	WARW_T1	4	4	0	0.55	0.63	0.08	0	0	0	0	0	0	0	0
4/26/2024 16:05	67605	WARW_T1	53	55	2	0.65	0.55	-0.1	-1.09	-1.09	0	0	0	0	0	0
4/26/2024 16:06	14403	SSLA_T1	2	2	0	0.75	0.5	-0.25	1.2	1.09	0	0	0	0	0	0
4/26/2024 16:06	14404	SSLA_T1	5	4	-1	1.46	1.95	0.49	0	0	0	0	0	0	0	0
4/26/2024 16:06	14402	SSLA_T1	5	5	0	0.48	0.46	-0.02	0	0	0	0	0	0	0	0
4/26/2024 16:06	14401	SSLA_T1	5	6	1	0.8	0.87	0.07	0	0	0	0	0	0	0	0
4/26/2024 16:08	40902	JESH_T1	0	1	1	0	0.3	0.3	-0.42	-0.4	0	0	0	0	0	0
4/26/2024 16:09	14402	SSLA_T1	5	5	0	0.48	0.46	-0.02	0	0	0	0	0	0	0	0
4/26/2024 16:09	14403	SSLA_T1	2	2	0	0.75	0.5	-0.25	0.54	0.54	0	0	0	0	0	0
4/26/2024 16:09	14401	SSLA_T1	5	6	1	0.8	0.87	0.07	0	0	0	0	0	0	0	0
4/26/2024 16:09	14404	SSLA_T1	5	4	-1	1.46	1.95	0.49	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 16:10	59202	THOM_T1	998	995	-3	1.07	1.01	-0.06	0	0	0	0	0	0	0	0
4/26/2024 16:10	44201	POIN_T2	209	242	33	0.24	0.24	0	-2.39	-2.4	2	2	0	2100	2100	0
4/26/2024 16:10	59201	THOM_T1	113	118	5	0.83	0.81	-0.02	0	0	0	0	0	0	0	0
4/26/2024 16:10	44202	POIN_T2	0	0	0	0	0	0	-0.89	-0.74	1	1	0	1200	1200	0
4/26/2024 16:10	45902	AUBU_T1	1	3	2	0.8	0.43	-0.37	-0.29	-0.32	0	0	0	0	0	0
4/26/2024 16:11	44201	POIN_T1	209	242	33	0.24	0.24	0	-2.39	-2.4	2	2	0	2100	2100	0
4/26/2024 16:12	10805	CHHI_T2	1	1	0	7.4	7.6	0.2	-1.01	-1.07	0	0	0	0	0	0
4/26/2024 16:13	45902	AUBU_T1	1	3	2	0.8	0.43	-0.37	-0.29	-0.32	0	0	0	0	0	0
4/26/2024 16:15	12003	HATF_T1	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
4/26/2024 16:15	45902	AUBU_T1	3	1	-2	0.43	0.8	0.37	-0.29	-0.32	0	0	0	0	0	0
4/26/2024 16:15	47403	PENS_T1	2	3	1	0.55	1	0.45	0	0	0	0	0	0	0	0
4/26/2024 16:15	67605	WARW_T1	51	53	2	0.56	0.57	0.01	-1.09	-1.12	0	0	0	0	0	0
4/26/2024 16:15	47402	PENS_T1	2	2	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/26/2024 16:15	12002	HATF_T1	0	0	0	0	0	0	0.14	0.1	0	0	0	0	0	0
4/26/2024 16:15	47401	PENS_T1	4	4	0	0.95	1.05	0.1	1.06	0.91	0	0	0	0	0	0
4/26/2024 16:15	67603	WARW_T1	4	2	-2	0.63	1	0.37	0	0	0	0	0	0	0	0
4/26/2024 16:15	12001	HATF_T1	1	1	0	0.3	1.6	1.3	0	0	0	0	0	0	0	0
4/26/2024 16:15	12006	HATF_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/26/2024 16:18	45902	AUBU_T1	3	1	-2	0.43	0.8	0.37	-0.29	-0.32	0	0	0	0	0	0
4/26/2024 16:20	67605	WARW_T1	51	53	2	0.56	0.57	0.01	-1.09	-1.12	0	0	0	0	0	0
4/26/2024 16:20	67603	WARW_T1	4	2	-2	0.63	1	0.37	0	0	0	0	0	0	0	0
4/26/2024 16:21	11805	FRAN_T1	0	0	0	0	0	0	-1.33	-1.25	1	1	0	1200	1200	0
4/26/2024 16:21	44201	SHEN_T2	1	2	1	1	0.75	-0.25	0.38	0.4	0	0	0	0	0	0
4/26/2024 16:21	11804	FRAN_T1	5	3	-2	0.56	0.7	0.14	0	0	0	0	0	0	0	0
4/26/2024 16:24	45902	AUBU_T1	3	1	-2	0.43	0.8	0.37	-0.32	-0.3	0	0	0	0	0	0
4/26/2024 16:25	54001	SDLE_T1	235	233	-2	0.35	0.34	-0.01	0	0	0	0	0	0	0	0
4/26/2024 16:26	45902	AUBU_T1	3	1	-2	0.43	0.8	0.37	-0.32	-0.3	0	0	0	0	0	0
4/26/2024 16:26	12502	MITR_T2	1	0	0	7.1	7	-0.1	0	0	0	0	0	0	0	0
4/26/2024 16:26	12505	MITR_T2	1	0	-1	0.1	0	-0.1	0.99	1.02	0	0	0	0	0	0
4/26/2024 16:27	61505	EPET_T1	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/26/2024 16:27	61502	EPET_T1	1	1	0	0.2	0.1	-0.1	-0.89	-0.93	0	0	0	0	0	0
4/26/2024 16:28	50506	MECH_T1	4	2	-2	0.3	0.5	0.2	-0.04	-0.08	0	0	0	0	0	0
4/26/2024 16:28	50501	MECH_T1	4	4	0	0.98	1.08	0.1	0	0	0	0	0	0	0	0
4/26/2024 16:28	50502	MECH_T1	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
4/26/2024 16:28	50505	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 16:28	50504	MECH_T1	3	3	0	0.17	0.2	0.03	0	0	0	0	0	0	0	0
4/26/2024 16:28	45902	AUBU_T1	3	1	-2	0.43	0.8	0.37	-0.32	-0.3	0	0	0	0	0	0
4/26/2024 16:28	50503	MECH_T1	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
4/26/2024 16:29	50504	MECH_T1	3	3	0	0.17	0.2	0.03	0	0	0	0	0	0	0	0
4/26/2024 16:29	50505	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 16:29	46001	BERW_T1	0	2	2	0	0.15	0.15	1.09	1.03	0	0	0	0	0	0
4/26/2024 16:29	50506	MECH_T1	4	2	-2	0.3	0.5	0.2	-0.04	-0.08	0	0	0	0	0	0
4/26/2024 16:29	46005	BERW_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
4/26/2024 16:29	50501	MECH_T1	4	4	0	0.98	1.08	0.1	0	0	0	0	0	0	0	0
4/26/2024 16:29	50502	MECH_T1	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
4/26/2024 16:29	50503	MECH_T1	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
4/26/2024 16:30	46001	BERW_T1	1	2	1	0.1	0.15	0.05	0.54	0.52	0	0	0	0	0	0
4/26/2024 16:31	45902	AUBU_T1	1	1	0	0.8	0.6	-0.2	-0.32	-0.3	0	0	0	0	0	0
4/26/2024 16:31	54001	SDLE_T1	230	194	-36	0.34	0.31	-0.03	0	0	0	0	0	0	0	0
4/26/2024 16:34	46001	BERW_T1	1	2	1	0.1	0.15	0.05	0.54	0.52	0	0	0	0	0	0
4/26/2024 16:36	44601	SALE_T2	0	1	1	0	1	1	0.43	0.12	0	0	0	0	0	0
4/26/2024 16:37	57401	SPAN_T1	3	2	-1	0.27	0.45	0.18	-0.98	-0.88	1	1	0	600	600	0
4/26/2024 16:37	57403	SPAN_T1	17	33	16	0.32	0.27	-0.05	0	0	0	0	0	0	0	0
4/26/2024 16:38	57401	SPAN_T1	3	2	-1	0.27	0.45	0.18	0	0	0	0	0	0	0	0
4/26/2024 16:38	57403	SPAN_T1	17	33	16	0.32	0.27	-0.05	-0.04	-0.04	0	0	0	0	0	0
4/26/2024 16:38	10602	BLGL_T2	4	2	-2	0.38	0.7	0.32	0.41	0.19	0	0	0	0	0	0
4/26/2024 16:41	29402	BELT_T1	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
4/26/2024 16:44	64101	REFR_T1	3	3	0	0.2	0.5	0.3	-0.84	-0.77	0	0	0	0	0	0
4/26/2024 16:44	63302	GREE_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
4/26/2024 16:44	46001	BERW_T1	1	2	1	0.1	0.15	0.05	0.52	0.54	0	0	0	0	0	0
4/26/2024 16:45	67605	WARW_T1	48	42	-6	0.59	0.61	0.02	-1.09	-1.08	0	0	0	0	0	0
4/26/2024 16:45	67603	WARW_T1	1	0	-1	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
4/26/2024 16:46	63401	HONY_T1	0	0	0	0	0	0	-0.09	-0.09	1	1	0	600	600	0
4/26/2024 16:47	64101	REFR_T1	3	1	-2	0.2	1.1	0.9	-0.84	-0.77	0	0	0	0	0	0
4/26/2024 16:48	63401	HONY_T1	0	0	0	0	0	0	-0.09	-0.09	1	1	0	600	600	0
4/26/2024 16:49	47002	HUGH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 16:49	47001	HUGH_T2	1	0	-1	0.1	0	-0.1	-0.24	-0.17	0	0	0	0	0	0
4/26/2024 16:49	63302	GREE_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
4/26/2024 16:50	46001	BERW_T1	2	0	-2	0.15	0	-0.15	0.52	0.54	0	0	0	0	0	0
4/26/2024 16:53	47002	HUGH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 16:53	47001	HUGH_T2	1	0	-1	0.1	0	-0.1	-0.24	-0.17	0	0	0	0	0	0
4/26/2024 16:53	63401	HONY_T1	0	0	0	0	0	0	-0.09	-0.03	1	1	0	600	600	0
4/26/2024 16:55	45902	AUBU_T1	1	1	0	0.6	0.3	-0.3	-0.35	-0.39	0	0	0	0	0	0
4/26/2024 16:56	53102	WTWN_T1	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
4/26/2024 16:56	53101	WTWN_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/26/2024 16:57	61102	BERK_T5	1	3	2	0.1	0.23	0.13	0.5	0.54	1	1	0	300	300	0
4/26/2024 16:57	47401	PENS_T1	3	4	1	0.93	0.78	-0.15	0.9	0.87	0	0	0	0	0	0
4/26/2024 16:57	45902	AUBU_T1	1	1	0	0.6	0.3	-0.3	-0.35	-0.39	0	0	0	0	0	0
4/26/2024 16:57	47402	PENS_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
4/26/2024 16:57	61103	BERK_T5	7	4	-3	0.24	0.3	0.06	0	0	0	0	0	0	0	0
4/26/2024 16:57	61101	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 16:57	47403	PENS_T1	2	2	0	1.3	1.25	-0.05	0	0	0	0	0	0	0	0
4/26/2024 16:59	67603	WARW_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
4/26/2024 16:59	67605	WARW_T1	48	42	-6	0.59	0.61	0.02	-1.08	-1.09	0	0	0	0	0	0
4/26/2024 17:00	45902	AUBU_T1	1	1	0	0.3	0.2	-0.1	-0.35	-0.39	0	0	0	0	0	0
4/26/2024 17:01	40902	JESH_T1	1	0	-1	0.2	0	-0.2	-0.91	-0.91	0	0	0	0	0	0
4/26/2024 17:01	46001	BERW_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
4/26/2024 17:02	40902	JESH_T1	1	0	-1	0.2	0	-0.2	-0.91	-0.91	0	0	0	0	0	0
4/26/2024 17:02	45902	AUBU_T1	1	1	0	0.3	0.2	-0.1	-0.35	-0.39	0	0	0	0	0	0
4/26/2024 17:03	13501	MCMI_T1	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
4/26/2024 17:03	65207	PRIN_T4	0	3	3	0	0.1	0.1	0	0	2	2	0	1800	1800	0
4/26/2024 17:03	13502	MCMI_T1	1	5	4	1.4	0.34	-1.06	0	0	0	0	0	0	0	0
4/26/2024 17:05	61103	BERK_T5	3	5	2	0.37	0.24	-0.13	0	0	0	0	0	0	0	0
4/26/2024 17:05	61101	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 17:05	61102	BERK_T5	0	3	3	0	0.23	0.23	0.5	0.54	1	1	0	300	300	0
4/26/2024 17:06	40902	JESH_T1	1	0	-1	0.2	0	-0.2	-0.91	-0.91	0	0	0	0	0	0
4/26/2024 17:06	46001	BERW_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
4/26/2024 17:08	12502	MITR_T2	1	1	0	7	6.9	-0.1	0	0	0	0	0	0	0	0
4/26/2024 17:08	12505	MITR_T2	0	0	0	0	0	0	1.06	0.91	0	0	0	0	0	0
4/26/2024 17:11	45501	DERR_T2	1	1	0	0.5	0.4	-0.1	-0.41	-0.43	2	2	0	1800	1800	0
4/26/2024 17:12	61101	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 17:12	61102	BERK_T5	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/26/2024 17:12	45501	DERR_T2	1	1	0	0.5	0.4	-0.1	-0.41	-0.43	2	2	0	1800	1800	0
4/26/2024 17:12	61103	BERK_T5	3	5	2	0.37	0.24	-0.13	0.09	0.08	0	0	0	0	0	0
4/26/2024 17:13	46002	BERW_T2	1	1	0	0.2	0.3	0.1	-1.21	-1.22	1	1	0	900	900	0
4/26/2024 17:13	46004	BERW_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/26/2024 17:15	67605	WARW_T1	38	36	-2	0.64	0.54	-0.1	-1.09	-1.06	0	0	0	0	0	0
4/26/2024 17:15	64101	REFR_T1	1	0	-1	0.9	0	-0.9	-0.89	-0.78	0	0	0	0	0	0
4/26/2024 17:15	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 17:15	21206	ECAR_T2	1	1	0	8.3	8.2	-0.1	1	0.98	0	0	0	0	0	0
4/26/2024 17:15	67603	WARW_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
4/26/2024 17:16	46002	BERW_T2	1	0	-1	0.3	0	-0.3	-1.21	-1.22	1	1	0	900	900	0
4/26/2024 17:16	61101	BERK_T5	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/26/2024 17:16	61103	BERK_T5	4	4	0	0.25	0.28	0.03	0.09	0.08	0	0	0	0	0	0
4/26/2024 17:16	40902	JESH_T1	0	0	0	0	0	0	-0.91	-0.94	0	0	0	0	0	0
4/26/2024 17:16	46001	BERW_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
4/26/2024 17:16	46004	BERW_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 17:16	61102	BERK_T5	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
4/26/2024 17:16	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 17:18	16605	PONO_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	1200	1200	0
4/26/2024 17:19	16605	PONO_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	1200	1200	0
4/26/2024 17:19	67603	WARW_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
4/26/2024 17:19	67605	WARW_T1	38	36	-2	0.64	0.54	-0.1	-1.09	-1.06	0	0	0	0	0	0
4/26/2024 17:21	40902	JESH_T1	0	0	0	0	0	0	-0.91	-0.94	0	0	0	0	0	0
4/26/2024 17:21	46001	BERW_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
4/26/2024 17:23	16605	PONO_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	1200	1200	0
4/26/2024 17:24	15703	TANN_T2	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
4/26/2024 17:24	15702	TANN_T2	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
4/26/2024 17:26	14404	SSLA_T1	3	3	0	2.37	2.17	-0.2	0	0	0	0	0	0	0	0
4/26/2024 17:26	14402	SSLA_T1	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
4/26/2024 17:26	14401	SSLA_T1	3	2	-1	0.43	0.9	0.47	-0.6	-0.51	0	0	0	0	0	0
4/26/2024 17:32	40902	JESH_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
4/26/2024 17:32	46001	BERW_T1	0	0	0	0	0	0	0.53	0.57	0	0	0	0	0	0
4/26/2024 17:34	67603	WARW_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/26/2024 17:34	67605	WARW_T1	30	38	8	0.59	0.55	-0.04	-1.06	-1.07	0	0	0	0	0	0
4/26/2024 17:35	65207	PRIN_T4	0	3	3	0	0.1	0.1	0	0	2	2	0	1800	1800	0
4/26/2024 17:37	46001	BERW_T1	0	0	0	0	0	0	0.53	0.57	0	0	0	0	0	0
4/26/2024 17:37	40902	JESH_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
4/26/2024 17:37	15103	UPHA_T2	2	0	-2	0.1	0	-0.1	0.35	0.37	0	0	0	0	0	0
4/26/2024 17:39	67603	WARW_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/26/2024 17:39	67605	WARW_T1	30	38	8	0.59	0.55	-0.04	-1.07	-1.09	0	0	0	0	0	0
4/26/2024 17:42	15103	UPHA_T2	2	0	-2	0.1	0	-0.1	0.37	0.36	0	0	0	0	0	0
4/26/2024 17:47	40602	PIGR_T1	0	1	1	0	0	0	0.46	0.46	0	0	0	0	0	0
4/26/2024 17:47	40601	PIGR_T1	172	178	6	0.29	0.31	0.02	0	0	0	0	0	0	0	0
4/26/2024 17:47	46001	BERW_T1	0	0	0	0	0	0	0.57	0.51	0	0	0	0	0	0
4/26/2024 17:48	46001	BERW_T1	0	0	0	0	0	0	0.57	0.51	0	0	0	0	0	0
4/26/2024 17:49	67605	WARW_T1	35	38	3	0.51	0.63	0.12	-1.07	-1.09	0	0	0	0	0	0
4/26/2024 17:53	46001	BERW_T1	0	0	0	0	0	0	0.57	0.51	0	0	0	0	0	0
4/26/2024 17:54	67605	WARW_T1	35	38	3	0.51	0.63	0.12	-1.09	-1.09	0	0	0	0	0	0
4/26/2024 17:56	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
4/26/2024 17:56	15702	TANN_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
4/26/2024 17:58	46001	BERW_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
4/26/2024 17:59	67605	WARW_T1	35	38	3	0.51	0.63	0.12	-1.09	-1.09	0	0	0	0	0	0
4/26/2024 17:59	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
4/26/2024 18:01	12002	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 18:01	12006	HATF_T1	0	0	0	0	0	0	0.79	0.86	0	0	0	0	0	0
4/26/2024 18:01	53502	EVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/26/2024 18:01	53501	EVIL_T2	6	5	-1	0.52	0.98	0.46	-0.74	-0.82	0	0	0	0	0	0
4/26/2024 18:02	46504	LOHA_T1	2	1	-1	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
4/26/2024 18:02	48302	ORWI_T2	2	2	0	1.55	1.6	0.05	-0.06	-0.09	0	0	0	0	0	0
4/26/2024 18:02	46506	LOHA_T1	0	0	0	0	0	0	-0.44	-0.5	0	0	0	0	0	0
4/26/2024 18:03	46001	BERW_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
4/26/2024 18:03	25503	MADI_T1	190	207	17	0.42	0.33	-0.09	-1.07	-1.07	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 18:04	66203	SISP_T2	0	0	0	0	0	0	-1.29	-1.31	1	1	0	1200	1200	0
4/26/2024 18:04	67605	WARW_T1	35	41	6	0.57	0.62	0.05	-1.09	-1.09	0	0	0	0	0	0
4/26/2024 18:06	54505	ENOL_T2	1	1	0	0.8	0.8	0	-1.36	-1.36	1	1	0	600	600	0
4/26/2024 18:06	54502	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/26/2024 18:08	42701	AUGU_T1	2	1	-1	0.5	1	0.5	0	0	2	2	0	1800	1800	0
4/26/2024 18:09	54502	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/26/2024 18:09	54505	ENOL_T2	1	1	0	0.8	0.8	0	-1.36	-1.36	1	1	0	600	600	0
4/26/2024 18:09	43304	WATS_T2	0	0	0	0	0	0	-0.57	-0.62	0	0	0	0	0	0
4/26/2024 18:09	43302	WATS_T2	4	4	0	0.9	0.9	0	0	0	0	0	0	0	0	0
4/26/2024 18:13	63304	GREE_T1	0	0	0	0	0	0	-0.38	-0.31	0	0	0	0	0	0
4/26/2024 18:14	46001	BERW_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
4/26/2024 18:14	63304	GREE_T1	0	0	0	0	0	0	-0.38	-0.31	0	0	0	0	0	0
4/26/2024 18:17	64403	LAND_T1	0	0	0	0	0	0	-1.62	-1.56	1	1	0	900	900	0
4/26/2024 18:18	65603	QVIL_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
4/26/2024 18:19	46001	BERW_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
4/26/2024 18:20	65904	SAKR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 18:20	65802	RTWN_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
4/26/2024 18:20	65903	SAKR_T2	0	0	0	0	0	0	-1.29	-1.33	3	3	0	2100	2100	0
4/26/2024 18:20	65901	SAKR_T2	1	1	0	9.5	9.7	0.2	0	0	0	0	0	0	0	0
4/26/2024 18:21	65903	SAKR_T2	0	0	0	0	0	0	-1.29	-1.33	3	3	0	2100	2100	0
4/26/2024 18:21	65901	SAKR_T2	1	1	0	9.5	9.7	0.2	0	0	0	0	0	0	0	0
4/26/2024 18:21	65904	SAKR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 18:22	65903	SAKR_T2	0	0	0	0	0	0	-1.29	-1.33	3	3	0	2100	2100	0
4/26/2024 18:22	65904	SAKR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 18:22	65901	SAKR_T2	1	1	0	9.5	9.7	0.2	0	0	0	0	0	0	0	0
4/26/2024 18:23	65901	SAKR_T2	1	1	0	9.5	9.7	0.2	0	0	0	0	0	0	0	0
4/26/2024 18:23	65904	SAKR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 18:23	65903	SAKR_T2	0	0	0	0	0	0	-1.33	-1.24	3	3	0	2100	2100	0
4/26/2024 18:27	61703	ELIZ_T1	0	0	0	0	0	0	-2.57	-2.59	2	2	0	2100	2100	0
4/26/2024 18:27	46002	BERW_T2	0	0	0	0	0	0	-1.25	-1.25	1	1	0	900	900	0
4/26/2024 18:27	61701	ELIZ_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
4/26/2024 18:28	50501	MECH_T1	4	4	0	1.03	1	-0.03	0	0	0	0	0	0	0	0
4/26/2024 18:28	50502	MECH_T1	1	1	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
4/26/2024 18:28	50505	MECH_T1	0	0	0	0	0	0	-0.96	-1	0	0	0	0	0	0
4/26/2024 18:29	61701	ELIZ_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
4/26/2024 18:29	61703	ELIZ_T1	0	0	0	0	0	0	-5.15	-5.19	4	4	0	4200	4200	0
4/26/2024 18:30	29402	BELT_T1	1	1	0	7.9	7.8	-0.1	0	0	0	0	0	0	0	0
4/26/2024 18:30	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/26/2024 18:32	64701	LITI_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
4/26/2024 18:32	59301	MCAL_T1	83	109	26	0.51	0.81	0.3	-1.23	-1.22	0	0	0	0	0	0
4/26/2024 18:32	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 18:32	59302	MCAL_T1	2	4	2	1.3	0.95	-0.35	0	0	0	0	0	0	0	0
4/26/2024 18:34	59302	MCAL_T1	2	4	2	1.3	0.95	-0.35	0	0	0	0	0	0	0	0
4/26/2024 18:34	59301	MCAL_T1	83	109	26	0.51	0.81	0.3	-2.45	-2.43	0	0	0	0	0	0
4/26/2024 18:37	43102	SMIL_T2	6	0	-6	0.8	0.95	0.15	-0.9	-0.9	1	1	0	600	600	0
4/26/2024 18:37	43105	SMIL_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/26/2024 18:37	43103	SMIL_T2	13	21	8	0.41	0.45	0.04	0	0	0	0	0	0	0	0
4/26/2024 18:40	43105	SMIL_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/26/2024 18:40	43102	SMIL_T2	6	6	0	0.8	0.95	0.15	-0.9	-0.93	1	1	0	600	600	0
4/26/2024 18:40	43103	SMIL_T2	13	21	8	0.41	0.45	0.04	0	0	0	0	0	0	0	0
4/26/2024 18:41	11504	FREE_T1	0	0	0	0	0	0	-2.45	-2.37	2	2	0	2100	2100	0
4/26/2024 18:41	20401	ASHF_T2	0	0	0	0	0	0	-0.45	-0.39	0	0	0	0	0	0
4/26/2024 18:41	20403	ASHF_T2	31	35	4	0.53	0.59	0.06	0	0	0	0	0	0	0	0
4/26/2024 18:47	24701	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 18:47	24702	FLND_T2	0	0	0	0	0	0	1.11	0.73	0	0	0	0	0	0
4/26/2024 18:48	51402	LYKE_T1	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
4/26/2024 18:52	13904	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 18:52	24202	PROV_T4	1	1	0	2.8	3.1	0.3	-0.96	-1.02	1	1	0	1200	1200	0
4/26/2024 18:52	13901	SEID_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
4/26/2024 18:56	45602	WOOL_T1	1	1	0	0.5	0.3	-0.2	0.36	0.37	0	0	0	0	0	0
4/26/2024 18:58	62605	ENGL_T1	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
4/26/2024 19:00	64202	KINZ_T1	20	77	57	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
4/26/2024 19:00	62605	ENGL_T1	0	1	1	0	0.1	0.1	-0.78	-0.82	0	0	0	0	0	0
4/26/2024 19:00	64201	KINZ_T1	15	76	61	0.49	0.37	-0.12	0	0	0	0	0	0	0	0
4/26/2024 19:00	64204	KINZ_T1	32	42	10	0.32	0.56	0.24	0	0	0	0	0	0	0	0
4/26/2024 19:00	64203	KINZ_T1	33	151	118	0.19	0.3	0.11	0.27	0.28	0	0	0	0	0	0
4/26/2024 19:02	50102	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 19:02	50107	HARR_T3	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
4/26/2024 19:02	50201	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/26/2024 19:02	50103	HARR_T3	2	2	0	0.3	0.75	0.45	0	0	0	0	0	0	0	0
4/26/2024 19:02	50105	HARR_T3	6	6	0	5.43	5.4	-0.03	0	0	0	0	0	0	0	0
4/26/2024 19:12	40505	CRES_T1	4	3	-1	4.43	6.27	1.84	0	0	0	0	0	0	0	0
4/26/2024 19:12	61701	ELIZ_T1	1	1	0	5.8	6.1	0.3	0.14	0.1	0	0	0	0	0	0
4/26/2024 19:12	40504	CRES_T1	0	0	0	0	0	0	-0.45	-0.48	0	0	0	0	0	0
4/26/2024 19:14	64503	LAVI_T1	0	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0
4/26/2024 19:14	64501	LAVI_T1	0	0	0	0	0	0	-0.8	-0.84	0	0	0	0	0	0
4/26/2024 19:16	63804	HEMP_T1	1	1	0	6.2	6	-0.2	0.39	0.39	0	0	0	0	0	0
4/26/2024 19:17	59301	MCAL_T1	242	301	59	0.49	0.58	0.09	-1.24	-1.25	0	0	0	0	0	0
4/26/2024 19:17	59302	MCAL_T1	17	15	-2	0.37	0.49	0.12	0	0	0	0	0	0	0	0
4/26/2024 19:22	24802	VALM_T1	0	0	0	0	0	0	3.14	3.26	0	0	0	0	0	0
4/26/2024 19:26	52202	DEVO_T2	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
4/26/2024 19:28	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 19:33	52501	PROG_T1	0	0	0	0	0	0	0.37	0.37	1	1	0	300	300	0
4/26/2024 19:37	54505	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
4/26/2024 19:37	54503	ENOL_T2	0	0	0	0	0	0	-1.36	-1.34	1	1	0	600	600	0
4/26/2024 19:37	54502	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/26/2024 19:43	15001	BLMO_T1	4	4	0	0.48	0.58	0.1	0	0	0	0	0	0	0	0
4/26/2024 19:56	13303	ORVI_T1	0	0	0	0	0	0	-0.44	0.81	0	0	0	0	0	0
4/26/2024 20:15	46004	BERW_T2	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
4/26/2024 20:20	45702	LIND_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
4/26/2024 20:20	45701	LIND_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
4/26/2024 20:21	45702	LIND_T2	1	1	0	0.9	0.5	-0.4	-0.63	-0.62	0	0	0	0	0	0
4/26/2024 20:22	45702	LIND_T2	1	1	0	0.9	0.5	-0.4	-0.63	-0.62	0	0	0	0	0	0
4/26/2024 20:22	15001	BLMO_T1	4	4	0	0.33	0.58	0.25	0	0	0	0	0	0	0	0
4/26/2024 20:23	15001	BLMO_T1	4	4	0	0.33	0.58	0.25	0	0	0	0	0	0	0	0
4/26/2024 20:23	45702	LIND_T2	1	1	0	0.9	0.5	-0.4	-0.63	-0.62	0	0	0	0	0	0
4/26/2024 20:25	15001	BLMO_T1	4	4	0	0.33	0.58	0.25	0	0	0	0	0	0	0	0
4/26/2024 20:28	15001	BLMO_T1	4	4	0	0.33	0.58	0.25	0	0	0	0	0	0	0	0
4/26/2024 20:29	15001	BLMO_T1	4	4	0	0.33	0.58	0.25	0	0	0	0	0	0	0	0
4/26/2024 20:35	47401	PENS_T1	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
4/26/2024 20:35	47403	PENS_T1	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
4/26/2024 20:40	47401	PENS_T1	0	0	0	0	0	0	0.68	0.64	0	0	0	0	0	0
4/26/2024 20:40	47403	PENS_T1	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
4/26/2024 20:43	51102	CARL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 20:43	51101	CARL_T1	0	0	0	0	0	0	-1.56	-1.51	1	1	0	600	600	0
4/26/2024 20:44	51101	CARL_T1	0	0	0	0	0	0	-1.56	-1.51	1	1	0	600	600	0
4/26/2024 20:44	51102	CARL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 20:46	67703	WERN_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
4/26/2024 20:48	55002	NEWP_T1	6	5	-1	0.62	0.82	0.2	-0.29	-0.3	0	0	0	0	0	0
4/26/2024 20:49	57401	SPAN_T1	2	2	0	0.35	0.45	0.1	-1	-0.98	1	1	0	600	600	0
4/26/2024 20:49	57403	SPAN_T1	20	37	17	0.21	0.29	0.08	0	0	0	0	0	0	0	0
4/26/2024 20:50	63602	LETO_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
4/26/2024 20:51	55002	NEWP_T1	6	5	-1	0.62	0.82	0.2	-0.29	-0.3	0	0	0	0	0	0
4/26/2024 20:52	13905	SEID_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/26/2024 20:54	57403	SPAN_T1	20	37	17	0.21	0.29	0.08	0	0	0	0	0	0	0	0
4/26/2024 20:54	57401	SPAN_T1	2	2	0	0.35	0.45	0.1	-0.98	-0.95	1	1	0	600	600	0
4/26/2024 20:59	62602	ENGL_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/26/2024 21:00	62607	ENGL_T1	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
4/26/2024 21:03	62607	ENGL_T1	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
4/26/2024 21:08	43104	SMIL_T2	0	0	0	0	0	0	-0.89	-0.89	1	1	0	300	300	0
4/26/2024 21:08	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:08	43102	SMIL_T2	6	8	2	0.8	0.71	-0.09	0	0	0	0	0	0	0	0
4/26/2024 21:08	43103	SMIL_T2	19	20	1	0.57	0.77	0.2	0	0	0	0	0	0	0	0
4/26/2024 21:11	58003	WCAR_T1	23	58	35	0.23	0.35	0.12	0.56	0.56	0	0	0	0	0	0
4/26/2024 21:11	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:11	51302	WIND_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/26/2024 21:11	58001	WCAR_T1	5	10	5	1.26	0.86	-0.4	0	0	0	0	0	0	0	0
4/26/2024 21:14	62103	ELAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/26/2024 21:14	49803	UNIV_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
4/26/2024 21:14	62101	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:14	62102	ELAN_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
4/26/2024 21:14	62105	ELAN_T1	20	85	65	0.11	0.11	0	0	0	0	0	0	0	0	0
4/26/2024 21:14	62106	ELAN_T1	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/26/2024 21:14	49804	UNIV_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/26/2024 21:18	46803	HEPB_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
4/26/2024 21:24	51102	CARL_T1	73	164	91	0.17	0.36	0.19	0	0	0	0	0	0	0	0
4/26/2024 21:24	56501	ROCK_T2	3	2	-1	0.23	0.35	0.12	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 21:24	51108	CARL_T1	0	1	1	0	0.1	0.1	-0.62	-0.6	0	0	0	0	0	0
4/26/2024 21:24	51101	CARL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:26	57401	SPAN_T1	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
4/26/2024 21:26	57403	SPAN_T1	33	45	12	0.26	0.24	-0.02	-0.07	-0.08	0	0	0	0	0	0
4/26/2024 21:27	56501	ROCK_T2	3	2	-1	0.23	0.35	0.12	-0.02	-0.02	0	0	0	0	0	0
4/26/2024 21:29	10805	CHHI_T2	1	1	0	7.4	7.8	0.4	-0.75	-0.66	0	0	0	0	0	0
4/26/2024 21:29	61506	EPET_T2	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
4/26/2024 21:30	56501	ROCK_T2	2	2	0	0.35	0.7	0.35	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 21:35	15101	UPHA_T1	0	0	0	0	0	0	0.43	0.48	0	0	0	0	0	0
4/26/2024 21:42	11601	CEAL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:42	11603	CEAL_T1	1	1	0	2.7	3.1	0.4	0	0	0	0	0	0	0	0
4/26/2024 21:43	41502	FAIR_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
4/26/2024 21:43	10602	BLGL_T2	0	1	1	0	0.1	0.1	0.16	0.09	0	0	0	0	0	0
4/26/2024 21:44	17002	RIRO_T2	506	564	58	0.35	0.36	0.01	0.28	0.27	0	0	0	0	0	0
4/26/2024 21:44	11405	FARM_T1	1	1	0	3.1	3.6	0.5	-1.17	-1.18	1	1	0	1200	1200	0
4/26/2024 21:45	26704	HEML_T2	0	0	0	0	0	0	-0.94	-0.96	1	1	0	1200	1200	0
4/26/2024 21:45	54201	PENN_T1	11	11	0	0.74	0.81	0.07	0.18	0.19	0	0	0	0	0	0
4/26/2024 21:45	54203	PENN_T1	18	18	0	1.04	1.07	0.03	0	0	0	0	0	0	0	0
4/26/2024 21:46	28704	HAML_T2	1	1	0	1	0.8	-0.2	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 21:46	29402	BELT_T1	1	1	0	7.4	7.8	0.4	0	0	0	0	0	0	0	0
4/26/2024 21:46	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:46	62605	ENGL_T1	1	7	6	0.1	0.18	0.08	-0.9	-0.89	0	0	0	0	0	0
4/26/2024 21:46	28703	HAML_T2	3	3	0	0.83	0.87	0.04	0	0	0	0	0	0	0	0
4/26/2024 21:46	25402	LAHA_T2	1	1	0	2.3	2.4	0.1	-0.93	-0.91	0	0	0	0	0	0
4/26/2024 21:46	62607	ENGL_T1	0	49	49	0	0.11	0.11	0	0	0	0	0	0	0	0
4/26/2024 21:47	50102	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 21:47	50103	HARR_T3	2	2	0	0.75	0.9	0.15	-1.06	-1.09	1	1	0	1200	1200	0
4/26/2024 21:47	50201	HARR_T3	1	2	1	0.6	0.6	0	0	0	0	0	0	0	0	0
4/26/2024 21:47	46002	BERW_T2	0	0	0	0	0	0	-0.35	-0.3	0	0	0	0	0	0
4/26/2024 21:47	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/26/2024 21:47	45902	AUBU_T1	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
4/26/2024 21:47	50202	HARR_T3	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/26/2024 21:47	50105	HARR_T3	6	6	0	5.73	5.55	-0.18	0	0	0	0	0	0	0	0
4/26/2024 21:47	40101	HUNT_T2	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
4/26/2024 21:47	45901	AUBU_T1	0	0	0	0	0	0	1.74	1.74	0	0	0	0	0	0
4/26/2024 21:48	43202	MVIL_T2	72	123	51	0.46	0.72	0.26	0	0	0	0	0	0	0	0
4/26/2024 21:48	15704	TANN_T1	184	212	28	0.23	0.26	0.03	-1.46	-1.43	0	0	0	0	0	0
4/26/2024 21:48	46801	HEPB_T2	0	2	2	0	0.35	0.35	0.52	0.5	0	0	0	0	0	0
4/26/2024 21:48	20401	ASHF_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:48	46802	HEPB_T1	1	1	0	1.3	1.5	0.2	-0.39	-0.41	0	0	0	0	0	0
4/26/2024 21:48	13302	ORVI_T2	0	0	0	0	0	0	1.19	1.3	0	0	0	0	0	0
4/26/2024 21:48	26703	HEML_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	600	600	0
4/26/2024 21:48	20403	ASHF_T2	42	44	2	1.08	1.35	0.27	0.02	0.03	0	0	0	0	0	0
4/26/2024 21:48	27502	WEIS_T2	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
4/26/2024 21:48	15701	TANN_T1	15	25	10	0.49	0.37	-0.12	0	0	0	0	0	0	0	0
4/26/2024 21:48	64904	MILL_T1	0	0	0	0	0	0	0.39	0.45	0	0	0	0	0	0
4/26/2024 21:48	64901	MILL_T1	6	22	16	0.2	0.22	0.02	0	0	0	0	0	0	0	0
4/26/2024 21:48	43201	MVIL_T2	0	1	1	0	0.1	0.1	-0.43	-0.42	0	0	0	0	0	0
4/26/2024 21:48	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0.28	0.24	0	0	0	0	0	0
4/26/2024 21:48	61303	EARL_T1	0	0	0	0	0	0	0.13	0.06	0	0	0	0	0	0
4/26/2024 21:49	29402	BELT_T1	1	1	0	7.4	7.8	0.4	0	0	0	0	0	0	0	0
4/26/2024 21:49	64204	KINZ_T1	41	184	143	0.43	0.31	-0.12	0	0	0	0	0	0	0	0
4/26/2024 21:49	16301	ALPA_T1	151	221	70	0.16	0.23	0.07	-0.52	-0.53	0	0	0	0	0	0
4/26/2024 21:49	14801	TREI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:49	64203	KINZ_T1	111	278	167	0.28	0.39	0.11	0.17	0.25	0	0	0	0	0	0
4/26/2024 21:49	16302	ALPA_T2	0	0	0	0	0	0	0.58	0.53	0	0	0	0	0	0
4/26/2024 21:49	64302	LINC_T2	0	0	0	0	0	0	0.84	0.85	0	0	0	0	0	0
4/26/2024 21:49	14802	TREI_T2	0	1	1	0	0.1	0.1	0.22	0.24	0	0	0	0	0	0
4/26/2024 21:49	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/26/2024 21:49	64202	KINZ_T1	68	94	26	0.35	0.61	0.26	0	0	0	0	0	0	0	0
4/26/2024 21:49	64201	KINZ_T1	62	124	62	0.33	0.46	0.13	0	0	0	0	0	0	0	0
4/26/2024 21:49	64304	LINC_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/26/2024 21:49	45902	AUBU_T1	0	7	7	0	0.11	0.11	-0.57	-0.69	0	0	0	0	0	0
4/26/2024 21:49	14401	SSLA_T1	0	1	1	0	0	0	-0.63	-0.64	0	0	0	0	0	0
4/26/2024 21:49	14404	SSLA_T1	2	2	0	3.35	3.6	0.25	0	0	0	0	0	0	0	0
4/26/2024 21:49	48302	ORWI_T2	2	2	0	2	1.55	-0.45	-0.18	-0.16	0	0	0	0	0	0
4/26/2024 21:50	43201	MVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:50	21206	ECAR_T2	1	1	0	8.4	8.1	-0.3	1.03	0.99	0	0	0	0	0	0
4/26/2024 21:50	54203	PENN_T1	18	18	0	1.04	1.07	0.03	0.6	0.58	0	0	0	0	0	0
4/26/2024 21:50	57401	SPAN_T1	2	2	0	0.45	0.45	0	-1.23	-1.25	1	1	0	600	600	0
4/26/2024 21:50	27502	WEIS_T2	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
4/26/2024 21:50	57304	MOAL_T2	0	7	7	0	0.27	0.27	-0.65	-0.62	0	0	0	0	0	0
4/26/2024 21:50	43202	MVIL_T2	72	123	51	0.46	0.72	0.26	-0.72	-0.75	0	0	0	0	0	0
4/26/2024 21:50	65503	MOJO_T2	456	403	-53	0.36	0.32	-0.04	-0.5	-0.49	0	0	0	0	0	0
4/26/2024 21:50	57303	MOAL_T2	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:50	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/26/2024 21:50	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/26/2024 21:50	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:50	13704	SCHN_T2	5	6	1	0.24	0.22	-0.02	-0.49	-0.48	0	0	0	0	0	0
4/26/2024 21:50	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:50	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:50	66203	SISP_T2	0	0	0	0	0	0	-1.49	-1.41	1	1	0	1200	1200	0
4/26/2024 21:50	16302	ALPA_T2	0	0	0	0	0	0	0.58	0.53	0	0	0	0	0	0
4/26/2024 21:50	29402	BELT_T1	1	1	0	7.4	7.8	0.4	0	0	0	0	0	0	0	0
4/26/2024 21:50	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-1.03	1	1	0	600	600	0
4/26/2024 21:50	24501	GOUL_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
4/26/2024 21:50	57403	SPAN_T1	13	66	53	0.18	0.23	0.05	0	0	0	0	0	0	0	0
4/26/2024 21:50	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:50	65802	RTWN_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
4/26/2024 21:50	67605	WARW_T1	45	46	1	0.62	0.66	0.04	-1.03	-1.04	0	0	0	0	0	0
4/26/2024 21:50	65502	MOJO_T2	438	391	-47	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
4/26/2024 21:50	54201	PENN_T1	11	11	0	0.74	0.81	0.07	0	0	0	0	0	0	0	0
4/26/2024 21:51	43202	MVIL_T2	72	123	51	0.46	0.72	0.26	-0.72	-0.75	0	0	0	0	0	0
4/26/2024 21:51	67402	WAKE_T2	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
4/26/2024 21:51	43201	MVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:51	61102	BERK_T5	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:51	67401	WAKE_T2	38	63	25	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/26/2024 21:51	24702	FLND_T2	0	0	0	0	0	0	1.05	1.2	0	0	0	0	0	0
4/26/2024 21:51	64702	LITI_T2	8	12	4	0.14	0.13	-0.01	-0.88	-0.87	0	0	0	0	0	0
4/26/2024 21:51	61101	BERK_T5	6	50	44	0.27	0.21	-0.06	0	0	0	0	0	0	0	0
4/26/2024 21:51	45902	AUBU_T1	0	7	7	0	0.11	0.11	-1.15	-1.39	0	0	0	0	0	0
4/26/2024 21:51	29402	BELT_T1	1	1	0	7.4	7.8	0.4	0	0	0	0	0	0	0	0
4/26/2024 21:51	61103	BERK_T5	12	89	77	0.12	0.13	0.01	-0.01	0	0	0	0	0	0	0
4/26/2024 21:52	63304	GREE_T1	0	0	0	0	0	0	-0.61	-0.58	0	0	0	0	0	0
4/26/2024 21:52	63305	GREE_T1	6	15	9	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/26/2024 21:52	48302	ORWI_T2	2	2	0	2	1.55	-0.45	-0.18	-0.16	0	0	0	0	0	0
4/26/2024 21:52	67703	WERN_T2	0	0	0	0	0	0	1.77	1.86	0	0	0	0	0	0
4/26/2024 21:52	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:52	46301	ROHR_T1	64	113	49	0.14	0.19	0.05	0	0	0	0	0	0	0	0
4/26/2024 21:52	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 21:52	46302	ROHR_T1	5	7	2	1.82	1.47	-0.35	0.09	0.09	0	0	0	0	0	0
4/26/2024 21:52	14802	TREI_T2	0	1	1	0	0.1	0.1	0.22	0.24	0	0	0	0	0	0
4/26/2024 21:52	24602	VARD_T2	958	951	-7	1.22	1.26	0.04	-1.14	-1.18	0	0	0	0	0	0
4/26/2024 21:52	16102	BING_T2	0	1	1	0	0.1	0.1	-0.25	-0.24	0	0	0	0	0	0
4/26/2024 21:52	24102	EHAZ_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
4/26/2024 21:52	14203	EALL_T1	0	0	0	0	0	0	-0.36	-0.48	1	1	0	1200	1200	0
4/26/2024 21:52	23203	HIRU_T2	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
4/26/2024 21:52	63602	LETO_T1	0	0	0	0	0	0	-0.65	-0.68	0	0	0	0	0	0
4/26/2024 21:52	67702	WERN_T2	0	0	0	0	0	0	-0.12	-0.05	0	0	0	0	0	0
4/26/2024 21:52	13302	ORVI_T2	0	0	0	0	0	0	1.19	1.3	0	0	0	0	0	0
4/26/2024 21:52	24603	VARD_T2	198	262	64	0.34	0.31	-0.03	0	0	0	0	0	0	0	0
4/26/2024 21:52	16401	MOPO_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
4/26/2024 21:52	24105	EHAZ_T1	4	4	0	6.23	6.08	-0.15	0	0	0	0	0	0	0	0
4/26/2024 21:52	14801	TREI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:52	42201	SHEN_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
4/26/2024 21:53	14404	SSLA_T1	2	2	0	3.35	3.6	0.25	-0.02	-0.05	0	0	0	0	0	0
4/26/2024 21:53	50202	HARR_T3	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/26/2024 21:53	51304	WIND_T2	0	0	0	0	0	0	-0.31	-0.26	0	0	0	0	0	0
4/26/2024 21:53	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/26/2024 21:53	14401	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:53	54601	SUMM_T2	13	12	-1	0.75	0.91	0.16	-2.01	-2.06	2	2	0	2100	2100	0
4/26/2024 21:53	66505	SMAN_T2	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/26/2024 21:53	61101	BERK_T5	6	50	44	0.27	0.21	-0.06	0	0	0	0	0	0	0	0
4/26/2024 21:53	50107	HARR_T3	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
4/26/2024 21:53	61102	BERK_T5	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:53	60502	NMAN_T2	24	19	-5	0.24	0.18	-0.06	-1.36	-1.48	0	0	0	0	0	0
4/26/2024 21:53	50105	HARR_T3	6	6	0	5.73	5.55	-0.18	0	0	0	0	0	0	0	0
4/26/2024 21:53	54602	SUMM_T2	10	10	0	0.32	0.38	0.06	0	0	0	0	0	0	0	0
4/26/2024 21:53	23001	SAUG_T1	0	0	0	0	0	0	-0.02	0.03	0	0	0	0	0	0
4/26/2024 21:53	57403	SPAN_T1	13	66	53	0.18	0.23	0.05	0	0	0	0	0	0	0	0
4/26/2024 21:53	17903	BART_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
4/26/2024 21:53	65603	QVIL_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
4/26/2024 21:53	66503	SMAN_T2	80	7	-73	0.12	0.19	0.07	0.3	0.22	0	0	0	0	0	0
4/26/2024 21:53	54603	SUMM_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/26/2024 21:53	41802	GOCI_T2	16	17	1	0.29	0.34	0.05	0	0	0	0	0	0	0	0
4/26/2024 21:53	10805	CHHI_T2	1	1	0	7.9	7.4	-0.5	-0.66	-0.75	0	0	0	0	0	0
4/26/2024 21:53	66701	STRA_T1	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
4/26/2024 21:53	51302	WIND_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/26/2024 21:53	66703	STRA_T1	4	45	41	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
4/26/2024 21:53	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.13	0	0	0	0	0	0
4/26/2024 21:53	45902	AUBU_T1	0	7	7	0	0.11	0.11	-0.69	-0.7	0	0	0	0	0	0
4/26/2024 21:53	48302	ORWI_T2	2	2	0	2	1.55	-0.45	-0.16	-0.2	0	0	0	0	0	0
4/26/2024 21:53	60501	NMAN_T2	81	45	-36	0.48	0.67	0.19	0	0	0	0	0	0	0	0
4/26/2024 21:53	67502	WEWI_T2	59	262	203	0.17	0.29	0.12	-0.68	-0.68	0	0	0	0	0	0
4/26/2024 21:53	65601	QVIL_T2	33	0	-33	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/26/2024 21:53	16302	ALPA_T2	0	0	0	0	0	0	0.58	0.53	0	0	0	0	0	0
4/26/2024 21:53	50103	HARR_T3	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
4/26/2024 21:53	41801	GOCI_T2	88	122	34	0.21	0.29	0.08	0	0	0	0	0	0	0	0
4/26/2024 21:53	50201	HARR_T3	1	2	1	0.6	0.6	0	0	0	0	0	0	0	0	0
4/26/2024 21:53	61103	BERK_T5	12	89	77	0.12	0.13	0.01	0	-0.01	0	0	0	0	0	0
4/26/2024 21:53	57401	SPAN_T1	2	2	0	0.45	0.45	0	-1.25	-1	1	1	0	600	600	0
4/26/2024 21:53	65602	QVIL_T2	3	1	-2	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
4/26/2024 21:53	54501	ENOL_T2	0	2	2	0	0.1	0.1	0.13	0.06	0	0	0	0	0	0
4/26/2024 21:53	67605	WARW_T1	45	46	1	0.62	0.66	0.04	-1.04	-1.06	0	0	0	0	0	0
4/26/2024 21:53	50102	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:53	66501	SMAN_T2	51	41	-10	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
4/26/2024 21:53	64702	LITI_T2	8	12	4	0.14	0.13	-0.01	-0.87	-0.79	0	0	0	0	0	0
4/26/2024 21:53	66504	SMAN_T2	4	2	-2	0.15	0.2	0.05	-1.47	-1.48	0	0	0	0	0	0
4/26/2024 21:53	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:53	12807	MICK_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/26/2024 21:53	12801	MICK_T1	0	0	0	0	0	0	-0.33	-0.32	1	1	0	600	600	0
4/26/2024 21:53	58401	MORO_T1	0	0	0	0	0	0	-1.33	-1.35	1	1	0	600	600	0
4/26/2024 21:53	13	SMAN_T2	4	4	-9	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
4/26/2024 21:53	12803	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:54	66505	SMAN_T2	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/26/2024 21:54	63402	HONY_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
4/26/2024 21:54	47101	MARI_T1	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
4/26/2024 21:54	14801	TREI_T2	1	1	0	0.2	0.3	0.1	0.31	0.27	0	0	0	0	0	0
4/26/2024 21:54	66504	SMAN_T2	4	2	-2	0.15	0.2	0.05	-0.73	-0.74	0	0	0	0	0	0
4/26/2024 21:54	50105	HARR_T3	6	6	0	5.73	5.55	-0.18	0	0	0	0	0	0	0	0
4/26/2024 21:54	44201	POIN_T1	222	381	159	0.22	0.26	0.04	-2.48	-2.47	2	2	0	2100	2100	0
4/26/2024 21:54	61303	EARL_T1	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
4/26/2024 21:54	67505	WEWI_T1	0	0	0	0	0	0	-0.42	-0.42	1	1	0	900	900	0
4/26/2024 21:54	48302	ORWI_T2	2	2	0	2	1.55	-0.45	0	0	0	0	0	0	0	0
4/26/2024 21:54	66501	SMAN_T2	51	41	-10	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
4/26/2024 21:54	60803	BUCK_T1	8	6	-2	0.15	0.17	0.02	-0.59	-0.6	1	1	0	600	600	0
4/26/2024 21:54	64501	LAVI_T1	48	61	13	0.12	0.18	0.06	-0.44	-0.44	0	0	0	0	0	0
4/26/2024 21:54	25503	MADI_T1	298	343	45	0.38	0.41	0.03	-1.09	-1.11	0	0	0	0	0	0
4/26/2024 21:54	65903	SAKR_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 21:54	65901	SAKR_T2	0	0	0	0	0	0	-1.59	-1.6	1	1	0	900	900	0
4/26/2024 21:54	46302	ROHR_T1	5	7	2	1.82	1.47	-0.35	0	0	0	0	0	0	0	0
4/26/2024 21:54	50201	HARR_T3	1	2	1	0.6	0.6	0	0.09	0.13	0	0	0	0	0	0
4/26/2024 21:54	64502	LAVI_T1	10	21	11	0.11	0.11	0	0	0	0	0	0	0	0	0
4/26/2024 21:54	26401	INOR_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
4/26/2024 21:54	14802	TREI_T2	0	1	1	0	0.1	0.1	0.24	0.22	0	0	0	0	0	0
4/26/2024 21:54	41301	FISH_T1	11	16	5	0.59	0.41	-0.18	-0.21	-0.19	0	0	0	0	0	0
4/26/2024 21:54	46301	ROHR_T1	64	113	49	0.14	0.19	0.05	0.14	0.12	0	0	0	0	0	0
4/26/2024 21:54	50102	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:54	45901	AUBU_T1	0	0	0	0	0	0	3.48	3.55	0	0	0	0	0	0
4/26/2024 21:54	61103	BERK_T5	12	89	77	0.12	0.13	0.01	-0.01	-0.02	0	0	0	0	0	0
4/26/2024 21:54	51004	NHAR_T1	12	13	1	1.07	1.28	0.21	-0.48	-0.49	0	0	0	0	0	0
4/26/2024 21:54	47104	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:54	26402	INOR_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/26/2024 21:54	16406	MOPO_T1	0	0	0	0	0	0	0.26	0.28	1	1	0	1200	1200	0
4/26/2024 21:54	40602	PIGR_T1	1	1	0	0.5	0.2	-0.3	0.92	0.87	0	0	0	0	0	0
4/26/2024 21:54	50103	HARR_T3	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
4/26/2024 21:54	65902	SAKR_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/26/2024 21:54	57006	WHHI_T2	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
4/26/2024 21:54	66703	STRA_T1	4	45	41	0.3	0.18	-0.12	-0.41	-0.35	0	0	0	0	0	0
4/26/2024 21:54	66502	SMAN_T2	13	4	-9	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
4/26/2024 21:54	60801	BUCK_T1	14	17	3	0.13	0.15	0.02	-0.27	-0.26	0	0	0	0	0	0
4/26/2024 21:54	23901	ERMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:54	50202	HARR_T3	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/26/2024 21:54	64503	LAVI_T1	16	26	10	0.11	0.12	0.01	0	0	0	0	0	0	0	0
4/26/2024 21:54	52502	PROG_T2	0	0	0	0	0	0	0.14	-0.83	0	0	0	0	0	0
4/26/2024 21:54	66503	SMAN_T2	80	7	-73	0.12	0.19	0.07	0	0	0	0	0	0	0	0
4/26/2024 21:54	45902	AUBU_T1	0	7	7	0	0.11	0.11	-1.39	-1.4	0	0	0	0	0	0
4/26/2024 21:54	51002	NHAR_T1	1	2	1	1.3	1.4	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:54	63403	HONY_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
4/26/2024 21:54	61101	BERK_T5	6	50	44	0.27	0.21	-0.06	0	0	0	0	0	0	0	0
4/26/2024 21:54	61102	BERK_T5	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:54	40601	PIGR_T1	7	54	47	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/26/2024 21:54	41504	FAIR_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
4/26/2024 21:54	67703	WERN_T2	0	0	0	0	0	0	0.62	0.52	0	0	0	0	0	0
4/26/2024 21:55	50102	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:55	50504	MECH_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
4/26/2024 21:55	67802	WLAN_T1	15	24	9	0.19	0.34	0.15	0	0	0	0	0	0	0	0
4/26/2024 21:55	13704	SOHN_T2	5	6	1	0.24	0.22	-0.02	-0.48	-0.5	0	0	0	0	0	0
4/26/2024 21:55	61101	BERK_T5	6	50	44	0.27	0.21	-0.06	0	0	0	0	0	0	0	0
4/26/2024 21:55	12001	HATF_T1	0	0	0	0	0	0	1.03	1	1	1	0	600	600	0
4/26/2024 21:55	66505	SMAN_T2	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/26/2024 21:55	67502	WEWI_T2	59	262	203	0.17	0.29	0.12	-1.35	-1.36	0	0	0	0	0	0
4/26/2024 21:55	66502	SMAN_T2	13	4	-9	0.12	0.1	-0.02	-0.15	-0.13	0	0	0	0	0	0
4/26/2024 21:55	57403	SPAN_T1	13	66	53	0.18	0.23	0.05	-0.08	-0.06	0	0	0	0	0	0
4/26/2024 21:55	47403	PENS_T1	1	0	-1	2.3	0	-2.3	0	0	0	0	0	0	0	0
4/26/2024 21:55	47103	MARL_T2	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
4/26/2024 21:55	49804	UNIV_T1	2	2	0	0.15	0.65	0.5	0	0	0	0	0	0	0	0
4/26/2024 21:55	67503	WEWI_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
4/26/2024 21:55	67801	WLAN_T1	10	97	87	0.11	0.2	0.09	0	0	0	0	0	0	0	0
4/26/2024 21:55	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:55	61102	BERK_T5	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:55	50501	MECH_T1	4	4	0	1.85	2.1	0.25	0	0	0	0	0	0	0	0
4/26/2024 21:55	64101	REFR_T1	0	0	0	0	0	0	-0.91	-0.9	0	0	0	0	0	0
4/26/2024 21:55	55101	WERT_T1	0	0	0	0	0	0	-1.03	-1.01	1	1	0	900	900	0
4/26/2024 21:55	67604	WARW_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
4/26/2024 21:55	67605	WARW_T1	45	46	1	0.62	0.66	0.04	0	0	0	0	0	0	0	0
4/26/2024 21:55	60801	BUCK_T1	14	17	3	0.13	0.15	0.02	0	0	0	0	0	0	0	0
4/26/2024 21:55	47102	MARL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/26/2024 21:55	66501	SMAN_T2	51	41	-10	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
4/26/2024 21:55	50105	HARR_T3	6	6	0	5.73	5.55	-0.18	0	0	0	0	0	0	0	0
4/26/2024 21:55	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:55	50505	MECH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:55	67805	WLAN_T1	570	680	110	0.61	0.72	0.11	0	0	0	0	0	0	0	0
4/26/2024 21:55	64402	LAND_T2	0	0	0	0	0	0	-0.58	-0.56	1	1	0	600	600	0
4/26/2024 21:55	47401	PENS_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
4/26/2024 21:55	14401	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:55	42903	MIDD_T2	0	2	2	0	0.15	0.15	-0.27	-0.28	0	0	0	0	0	0
4/26/2024 21:55	60701	BREC_T1	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
4/26/2024 21:55	50103	HARR_T3	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
4/26/2024 21:55	50506	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:55	66503	SMAN_T2	80	7	-73	0.12	0.19	0.07	0	0	0	0	0	0	0	0
4/26/2024 21:55	16402	MOPO_T1	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
4/26/2024 21:55	49803	UNIV_T1	0	0	0	0	0	0	0.07	0.02	0	0	0	0	0	0
4/26/2024 21:55	59202	THOM_T1	1057	1127	70	1.4	1.4	0	0	0	0	0	0	0	0	0
4/26/2024 21:55	59201	THOM_T1	166	166	0	1.13	1.17	0.04	0	0	0	0	0	0	0	0
4/26/2024 21:55	65207	PRIN_T4	18	46	28	0.18	0.18	0	0	0	0	0	0	0	0	0
4/26/2024 21:55	61103	BERK_T5	12	89	77	0.12	0.13	0.01	0	-0.01	0	0	0	0	0	0
4/26/2024 21:55	67804	WLAN_T1	94	409	315	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/26/2024 21:55	57401	SPAN_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
4/26/2024 21:55	63802	HEMP_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
4/26/2024 21:55	14404	SSLA_T1	2	2	0	3.35	3.6	0.25	-0.05	-0.04	0	0	0	0	0	0
4/26/2024 21:55	67803	WLAN_T1	342	758	416	0.17	0.29	0.12	-0.97	-0.96	0	0	0	0	0	0
4/26/2024 21:55	67505	WEWI_T1	0	0	0	0	0	0	-0.42	-0.42	1	1	0	900	900	0
4/26/2024 21:55	16504	STRO_T1	0	0	0	0	0	0	0.06	0.05	1	1	0	1200	1200	0
4/26/2024 21:55	65206	PRIN_T4	1	21	20	0.1	0.35	0.25	0	0	0	0	0	0	0	0
4/26/2024 21:55	50201	HARR_T3	1	2	1	0.6	0.6	0	0.09	0.13	0	0	0	0	0	0
4/26/2024 21:55	50202	HARR_T3	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/26/2024 21:55	66504	SMAN_T2	4	2	-2	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/26/2024 21:55	60803	BUCK_T1	8	6	-2	0.15	0.17	0.02	-0.59	-0.6	1	1	0	600	600	0
4/26/2024 21:55	52502	PROG_T2	0	0	0	0	0	0	0.14	-0.83	0	1	1	0	900	900
4/26/2024 21:55	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:55	54001	SDLE_T1	69	92	23	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/26/2024 21:55	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.25	0	0	0	0	0	0
4/26/2024 21:55	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
4/26/2024 21:55	57002	WHHI_T2	0	0	0	0	0	0	-1.63	-1.63	1	0	-1	1200	0	-1200
4/26/2024 21:55	50502	MECH_T1	1	1	0	2.6	3	0.4	-0.2	-0.24	0	0	0	0	0	0
4/26/2024 21:56	61103	BERK_T5	12	89	77	0.12	0.13	0.01	0	0	0	0	0	0	0	0
4/26/2024 21:56	61101	BERK_T5	6	50	44	0.27	0.21	-0.06	0	0	0	0	0	0	0	0
4/26/2024 21:56	46001	BERW_T1	0	1	1	0	0	0	0.47	0.47	0	0	0	0	0	0
4/26/2024 21:56	64204	KINZ_T1	41	184	143	0.43	0.31	-0.12	0	0	0	0	0	0	0	0
4/26/2024 21:56	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:56	59302	MCAL_T1	5	6	1	0.82	0.82	0	0	0	0	0	0	0	0	0
4/26/2024 21:56	57403	SPAN_T1	13	66	53	0.18	0.23	0.05	0	0	0	0	0	0	0	0
4/26/2024 21:56	57401	SPAN_T1	2	2	0	0.45	0.45	0	-1.25	-1	1	1	0	600	600	0
4/26/2024 21:56	43103	SMIL_T2	21	21	0	0.63	0.9	0.27	0	0	0	0	0	0	0	0
4/26/2024 21:56	64501	LAVI_T1	48	61	13	0.12	0.18	0.06	-0.44	-0.44	0	0	0	0	0	0
4/26/2024 21:56	14404	SSLA_T1	2	2	0	3.35	3.6	0.25	0	0	0	0	0	0	0	0
4/26/2024 21:56	65502	MOJO_T2	438	391	-47	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
4/26/2024 21:56	40602	PIGR_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/26/2024 21:56	41801	GOCI_T2	88	122	34	0.21	0.29	0.08	0	0	0	0	0	0	0	0
4/26/2024 21:56	59201	THOM_T1	166	166	0	1.13	1.17	0.04	0	0	0	0	0	0	0	0
4/26/2024 21:56	12002	HATF_T1	0	1	1	0	0	0	-0.19	-0.26	0	0	0	0	0	0
4/26/2024 21:56	47403	PENS_T1	1	0	-1	2.3	0	-2.3	0	0	0	0	0	0	0	0
4/26/2024 21:56	43105	SMIL_T2	1	10	9	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/26/2024 21:56	57004	WHHI_T2	0	0	0	0	0	0	-0.72	-0.76	0	0	0	0	0	0
4/26/2024 21:56	64101	REFR_T1	0	0	0	0	0	0	-0.91	-0.9	0	0	0	0	0	0
4/26/2024 21:56	59202	THOM_T1	1057	1127	70	1.4	1.4	0	0	0	0	0	0	0	0	0
4/26/2024 21:56	61102	BERK_T5	1	1	0	0.4	0.5	0.1	0.27	0.05	1	1	0	300	300	0
4/26/2024 21:56	43102	SMIL_T2	7	9	2	0.7	0.74	0.04	-0.99	-0.99	1	1	0	600	600	0
4/26/2024 21:56	41802	GOCI_T2	16	17	1	0.29	0.34	0.05	0	0	0	0	0	0	0	0
4/26/2024 21:56	12001	HATF_T1	0	0	0	0	0	0	1.03	1	1	1	0	600	600	0
4/26/2024 21:56	53903	HALI_T2	2	2	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
4/26/2024 21:56	64203	KINZ_T1	111	278	167	0.28	0.39	0.11	0.25	0.21	0	0	0	0	0	0
4/26/2024 21:56	24202	PROV_T4	1	1	0	3.6	4.1	0.5	0.1	0.05	0	0	0	0	0	0
4/26/2024 21:56	65207	PRIN_T4	18	46	28	0.18	0.18	0	0	0	2	2	0	1800	1800	0
4/26/2024 21:56	65503	MOJO_T2	456	403	-53	0.36	0.32	-0.04	-0.49	-0.56	0	0	0	0	0	0
4/26/2024 21:56	14401	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:56	59301	MCAL_T1	123	169	46	0.86	0.74	-0.12	-1.23	-1.23	0	0	0	0	0	0
4/26/2024 21:56	64502	LAVI_T1	10	21	11	0.11	0.11	0	0	0	0	0	0	0	0	0
4/26/2024 21:56	52202	DEVO_T2	0	1	1	0	0	0	-0.27	-0.27	0	0	0	0	0	0
4/26/2024 21:56	65206	PRIN_T4	1	21	20	0.1	0.35	0.25	0	0	0	0	0	0	0	0
4/26/2024 21:56	45902	AUBU_T1	0	7	7	0	0.11	0.11	-1.39	-1.4	0	0	0	0	0	0
4/26/2024 21:56	40601	PIGR_T1	7	54	47	0.11	0.14	0.03	-0.23	-0.28	0	0	0	0	0	0
4/26/2024 21:56	14403	SSLA_T1	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
4/26/2024 21:56	64202	KINZ_T1	68	94	26	0.35	0.61	0.26	0	0	0	0	0	0	0	0
4/26/2024 21:56	53902	HALI_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:56	47401	PENS_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
4/26/2024 21:56	67502	WEWI_T2	59	262	203	0.17	0.29	0.12	-0.68	-0.68	0	0	0	0	0	0
4/26/2024 21:56	55101	WERT_T1	0	0	0	0	0	0	-2.06	-2.03	2	2	0	1800	1800	0
4/26/2024 21:56	53901	HALI_T2	1	1	0	0.8	0.8	0	-1.12	-1.11	0	0	0	0	0	0
4/26/2024 21:56	64503	LAVI_T1	16	26	10	0.11	0.12	0.01	0	0	0	0	0	0	0	0
4/26/2024 21:56	64201	KINZ_T1	62	124	62	0.33	0.46	0.13	0	0	0	0	0	0	0	0
4/26/2024 21:56	64902	MILL_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
4/26/2024 21:57	40303	TAMA_T3	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
4/26/2024 21:57	11803	FRAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/26/2024 21:57	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:57	43302	WATS_T2	4	4	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
4/26/2024 21:57	46302	ROHR_T1	5	7	2	1.82	1.47	-0.35	0	0	0	0	0	0	0	0
4/26/2024 21:57	51002	NHAR_T1	1	2	1	1.3	1.4	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:57	60701	BREC_T1	0	0	0	0	0	0	0.16	0.08	0	0	0	0	0	0
4/26/2024 21:57	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:57	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:57	67805	WLAN_T1	570	680	110	0.61	0.72	0.11	0	0	0	0	0	0	0	0
4/26/2024 21:57	64503	LAVI_T1	16	26	10	0.11	0.12	0.01	0	0	0	0	0	0	0	0
4/26/2024 21:57	66503	SMAN_T2	80	7	-73	0.12	0.19	0.07	0	0	0	0	0	0	0	0
4/26/2024 21:57	66502	SMAN_T2	13	4	-9	0.12	0.1	-0.02	-0.15	-0.13	0	0	0	0	0	0
4/26/2024 21:57	44601	SALE_T2	1	1	0	0.9	1	0.1	-0.19	-0.2	0	0	0	0	0	0
4/26/2024 21:57	63401	HONY_T1	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
4/26/2024 21:57	66501	SMAN_T2	51	41	-10	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
4/26/2024 21:57	67802	WLAN_T1	15	24	9	0.19	0.34	0.15	0	0	0	0	0	0	0	0
4/26/2024 21:57	24201	PROV_T3	1	1	0	7	7.2	0.2	-0.21	-0.27	0	0	0	0	0	0
4/26/2024 21:57	43102	SMIL_T2	7	9	2	0.7	0.74	0.04	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 21:57	43105	SMIL_T2	1	10	9	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/26/2024 21:57	53903	HALI_T2	2	2	0	1.6	1.8	0.2	-0.21	-0.23	0	0	0	0	0	0
4/26/2024 21:57	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:57	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/26/2024 21:57	51001	NHAR_T1	12	13	1	1.07	1.28	0.21	0	0	0	0	0	0	0	0
4/26/2024 21:57	42903	MIDD_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/26/2024 21:57	51401	LYKE_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
4/26/2024 21:57	66504	SMAN_T2	4	2	-2	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/26/2024 21:57	24204	PROV_T3	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
4/26/2024 21:57	14204	EALL_T2	0	4	4	0	0.1	0.1	-0.85	-0.78	0	0	0	0	0	0
4/26/2024 21:57	51003	NHAR_T1	0	0	0	0	0	0	-2.19	-2.22	0	0	0	0	0	0
4/26/2024 21:57	63404	HONY_T1	35	107	72	0.18	0.28	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:57	53902	HALI_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:57	13103	NHAM_T2	0	0	0	0	0	0	-1.83	-1.83	1	1	0	600	600	0
4/26/2024 21:57	43103	SMIL_T2	21	21	0	0.63	0.9	0.27	0	0	0	0	0	0	0	0
4/26/2024 21:57	67703	WERN_T2	0	0	0	0	0	0	0.62	0.52	0	0	0	0	0	0
4/26/2024 21:57	65902	SAKR_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/26/2024 21:57	50103	HARR_T3	2	2	0	0.75	0.9	0.15	-1.09	-1.08	1	1	0	1200	1200	0
4/26/2024 21:57	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:57	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:57	57403	SPAN_T1	13	66	53	0.18	0.23	0.05	-0.08	-0.06	0	0	0	0	0	0
4/26/2024 21:57	64403	LAND_T1	0	0	0	0	0	0	-1.61	-1.71	1	1	0	900	900	0
4/26/2024 21:57	53502	EVIL_T2	0	3	3	0	0.27	0.27	0.51	0.47	0	0	0	0	0	0
4/26/2024 21:57	64502	LAVI_T1	10	21	11	0.11	0.11	0	0	0	0	0	0	0	0	0
4/26/2024 21:57	53901	HALI_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/26/2024 21:57	50202	HARR_T3	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/26/2024 21:57	50105	HARR_T3	6	6	0	5.73	5.55	-0.18	0	0	0	0	0	0	0	0
4/26/2024 21:57	67804	WLAN_T1	94	409	315	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/26/2024 21:57	67803	WLAN_T1	342	758	416	0.17	0.29	0.12	-0.97	-0.96	0	0	0	0	0	0
4/26/2024 21:57	65903	SAKR_T2	2	2	0	0.15	0.2	0.05	-1.49	-1.49	3	3	0	2100	2100	0
4/26/2024 21:57	64802	MONE_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
4/26/2024 21:57	54505	ENOL_T2	1	1	0	1	1.1	0.1	-1.41	-1.42	1	1	0	600	600	0
4/26/2024 21:57	66505	SMAN_T2	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/26/2024 21:57	43301	WATS_T2	0	0	0	0	0	0	-0.87	-0.86	1	1	0	900	900	0
4/26/2024 21:57	67605	WARW_T1	45	46	1	0.62	0.66	0.04	-1.04	-1.06	0	0	0	0	0	0
4/26/2024 21:57	12502	MITR_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
4/26/2024 21:57	40302	TAMA_T3	28	36	8	0.37	0.36	-0.01	0.26	0.25	0	0	0	0	0	0
4/26/2024 21:57	64801	MONE_T2	1	5	4	0.6	0.18	-0.42	0.22	0.16	0	0	0	0	0	0
4/26/2024 21:57	46301	ROHR_T1	64	113	49	0.14	0.19	0.05	0.27	0.24	0	0	0	0	0	0
4/26/2024 21:57	50102	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:57	53501	EVIL_T2	5	83	78	0.84	0.21	-0.63	-0.83	-0.81	0	0	0	0	0	0
4/26/2024 21:57	64501	LAVI_T1	48	61	13	0.12	0.18	0.06	-0.44	-0.44	0	0	0	0	0	0
4/26/2024 21:57	12505	MITR_T2	0	0	0	0	0	0	0.31	0.23	0	0	0	0	0	0
4/26/2024 21:57	43304	WATS_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
4/26/2024 21:57	50201	HARR_T3	1	2	1	0.6	0.6	0	0	0	0	0	0	0	0	0
4/26/2024 21:57	67801	WLAN_T1	10	97	87	0.11	0.2	0.09	0	0	0	0	0	0	0	0
4/26/2024 21:57	24802	VALM_T1	0	0	0	0	0	0	2.95	3.03	0	0	0	0	0	0
4/26/2024 21:57	10801	CHHI_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	900	900	0
4/26/2024 21:57	12006	HATF_T1	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
4/26/2024 21:57	43101	SMIL_T2	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
4/26/2024 21:57	42902	MIDD_T2	0	0	0	0	0	0	1.61	1.65	0	0	0	0	0	0
4/26/2024 21:57	57401	SPAN_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
4/26/2024 21:57	51402	LYKE_T1	0	17	17	0	0.19	0.19	0	0	0	0	0	0	0	0
4/26/2024 21:57	63305	GREE_T1	6	15	9	0.17	0.23	0.06	-1.36	-1.42	0	0	0	0	0	0
4/26/2024 21:57	11801	FRAN_T2	0	0	0	0	0	0	-0.16	-0.1	0	0	0	0	0	0
4/26/2024 21:57	16302	ALPA_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
4/26/2024 21:58	61102	BERK_T5	1	1	0	0.4	0.5	0.1	0.27	0.05	1	1	0	300	300	0
4/26/2024 21:58	45902	AUBU_T1	0	7	7	0	0.11	0.11	-0.69	-0.7	0	0	0	0	0	0
4/26/2024 21:58	41202	KENM_T2	1	1	0	0.3	0.5	0.2	0.39	0.41	0	0	0	0	0	0
4/26/2024 21:58	50201	HARR_T3	1	2	1	0.6	0.6	0	0	0	0	0	0	0	0	0
4/26/2024 21:58	57001	WHHI_T2	0	0	0	0	0	0	-0.47	-0.5	1	1	0	900	900	0
4/26/2024 21:58	67804	WLAN_T1	94	409	315	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/26/2024 21:58	50506	MECH_T1	0	1	1	0	0	0	-0.24	-0.45	0	0	0	0	0	0
4/26/2024 21:58	60801	BUCK_T1	14	17	3	0.13	0.15	0.02	-0.27	-0.26	0	0	0	0	0	0
4/26/2024 21:58	47001	HUGH_T2	0	0	0	0	0	0	-0.34	-0.39	0	0	0	0	0	0
4/26/2024 21:58	61101	BERK_T5	6	50	44	0.27	0.21	-0.06	0	0	0	0	0	0	0	0
4/26/2024 21:58	53901	HALI_T2	1	1	0	0.8	0.8	0	-1.12	-1.11	0	0	0	0	0	0
4/26/2024 21:58	59301	MCAL_T1	123	169	46	0.86	0.74	-0.12	-1.23	-1.23	0	0	0	0	0	0
4/26/2024 21:58	67802	WLAN_T1	15	24	9	0.19	0.34	0.15	0	0	0	0	0	0	0	0
4/26/2024 21:58	59001	MIFF_T1	42	39	-3	0.31	0.32	0.01	0	0	0	0	0	0	0	0
4/26/2024 21:58	67803	WLAN_T1	342	758	416	0.17	0.29	0.12	-0.97	-0.96	0	0	0	0	0	0
4/26/2024 21:58	64201	KINZ_T1	62	124	62	0.33	0.46	0.13	0	0	0	0	0	0	0	0
4/26/2024 21:58	50103	HARR_T3	2	2	0	0.75	0.9	0.15	-1.09	-1.08	1	1	0	1200	1200	0
4/26/2024 21:58	63802	HEMP_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
4/26/2024 21:58	10901	COOP_T2	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
4/26/2024 21:58	59002	MIFF_T1	42	38	-4	0.36	0.4	0.04	0	0	0	0	0	0	0	0
4/26/2024 21:58	64203	KINZ_T1	111	278	167	0.28	0.39	0.11	0.25	0.21	0	0	0	0	0	0
4/26/2024 21:58	40601	PIGR_T1	7	54	47	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/26/2024 21:58	42001	MNVL_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
4/26/2024 21:58	42002	MNVL_T2	1	1	0	2.9	2.8	-0.1	0	0	0	0	0	0	0	0
4/26/2024 21:58	51402	LYKE_T1	0	17	17	0	0.19	0.19	0	0	0	0	0	0	0	0
4/26/2024 21:58	20601	GRWO_T2	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
4/26/2024 21:58	40602	PIGR_T1	1	1	0	0.5	0.2	-0.3	0.46	0.44	0	0	0	0	0	0
4/26/2024 21:58	10903	COOP_T2	62	116	54	0.16	0.36	0.2	0	0	0	0	0	0	0	0
4/26/2024 21:58	67805	WLAN_T1	570	680	110	0.61	0.72	0.11	0	0	0	0	0	0	0	0
4/26/2024 21:58	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:58	51401	LYKE_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
4/26/2024 21:58	20403	ASHF_T2	42	44	2	1.08	1.35	0.27	0.06	0.02	0	0	0	0	0	0
4/26/2024 21:58	64202	KINZ_T1	68	94	26	0.35	0.61	0.26	0	0	0	0	0	0	0	0
4/26/2024 21:58	50504	MECH_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
4/26/2024 21:58	60803	BUCK_T1	8	6	-2	0.15	0.17	0.02	-0.59	-0.6	1	1	0	600	600	0
4/26/2024 21:58	53903	HALI_T2	2	2	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
4/26/2024 21:58	41502	FAIR_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
4/26/2024 21:58	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:58	67801	WLAN_T1	10	97	87	0.11	0.2	0.09	0	0	0	0	0	0	0	0
4/26/2024 21:58	22003	BOHE_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/26/2024 21:58	67503	WEWI_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
4/26/2024 21:58	53902	HALI_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:58	67505	WEWI_T1	0	0	0	0	0	0	-0.42	-0.42	1	1	0	900	900	0
4/26/2024 21:58	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
4/26/2024 21:58	59003	MIFF_T1	19	32	13	0.2	0.18	-0.02	0.25	0.24	0	0	0	0	0	0
4/26/2024 21:58	42401	GIMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:58	46001	BERW_T1	0	1	1	0	0	0	0.47	0.47	0	0	0	0	0	0
4/26/2024 21:58	59302	MCAL_T1	5	6	1	0.82	0.82	0	0	0	0	0	0	0	0	0
4/26/2024 21:58	50505	MECH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:58	50202	HARR_T3	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/26/2024 21:58	50501	MECH_T1	4	4	0	1.85	2.1	0.25	0	0	0	0	0	0	0	0
4/26/2024 21:58	44201	POIN_T1	222	381	159	0.22	0.26	0.04	-2.48	-2.47	2	2	0	2100	2100	0
4/26/2024 21:58	50102	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:58	10801	CHHI_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	900	900	0
4/26/2024 21:58	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:58	50502	MECH_T1	1	1	0	2.6	3	0.4	0	0	0	0	0	0	0	0
4/26/2024 21:58	64204	KINZ_T1	41	184	143	0.43	0.31	-0.12	0	0	0	0	0	0	0	0
4/26/2024 21:58	60501	NMAN_T2	81	45	-36	0.48	0.67	0.19	0	0	0	0	0	0	0	0
4/26/2024 21:58	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	2	1	600	1800	1200
4/26/2024 21:58	67502	WEWI_T2	59	262	203	0.17	0.29	0.12	-0.68	-0.68	0	0	0	0	0	0
4/26/2024 21:58	50105	HARR_T3	6	6	0	5.73	5.55	-0.18	0	0	0	0	0	0	0	0
4/26/2024 21:58	49804	UNIV_T1	2	2	0	0.15	0.65	0.5	0.33	0.37	0	0	0	0	0	0
4/26/2024 21:58	67401	WAKE_T2	38	63	25	0.15	0.17	0.02	-0.97	-0.97	0	0	0	0	0	0
4/26/2024 21:58	65205	PRIN_T1	1	1	0	2	2.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 21:58	67603	WARW_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
4/26/2024 21:58	67605	WARW_T1	45	46	1	0.62	0.66	0.04	0	0	0	0	0	0	0	0
4/26/2024 21:58	10805	CHHI_T2	1	1	0	7.9	7.4	-0.5	-0.75	-1.06	0	0	0	0	0	0
4/26/2024 21:58	46002	BERW_T2	0	0	0	0	0	0	-0.3	-0.35	0	0	0	0	0	0
4/26/2024 21:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:58	61103	BERK_T5	12	89	77	0.12	0.13	0.01	0	0	0	0	0	0	0	0
4/26/2024 21:58	60502	NMAN_T2	24	19	-5	0.24	0.18	-0.06	-0.68	-0.74	0	0	0	0	0	0
4/26/2024 21:58	51302	WIND_T2	1	1	0	0.3	0.3	0	-0.03	-0.03	0	0	0	0	0	0
4/26/2024 21:58	20401	ASHF_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:58	67501	WEWI_T1	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
4/26/2024 21:59	64203	KINZ_T1	111	278	167	0.28	0.39	0.11	0	0	0	0	0	0	0	0
4/26/2024 21:59	52002	LING_T2	1	1	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
4/26/2024 21:59	64201	KINZ_T1	62	124	62	0.33	0.46	0.13	0	0	0	0	0	0	0	0
4/26/2024 21:59	66502	SMAN_T2	13	4	-9	0.12	0.1	-0.02	-0.3	-0.27	0	0	0	0	0	0
4/26/2024 21:59	57303	MOAL_T2	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:59	57304	MOAL_T2	0	7	7	0	0.27	0.27	-0.62	-0.68	0	0	0	0	0	0
4/26/2024 21:59	66505	SMAN_T2	1	3	2	0.3	0.27	-0.03	-0.17	-0.15	1	1	0	900	900	0
4/26/2024 21:59	59301	MCAL_T1	123	169	46	0.86	0.74	-0.12	-1.23	-1.23	0	0	0	0	0	0
4/26/2024 21:59	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.13	0	0	0	0	0	0
4/26/2024 21:59	14401	SSLA_T1	0	1	1	0	0	0	-0.64	-0.63	0	0	0	0	0	0
4/26/2024 21:59	60902	DONG_T2	3	1	-2	0.23	0.2	-0.03	0.43	0.42	0	0	0	0	0	0
4/26/2024 21:59	54001	SDLE_T1	69	92	23	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
4/26/2024 21:59	43302	WATS_T2	4	4	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
4/26/2024 21:59	43102	SMIL_T2	7	9	2	0.7	0.74	0.04	-0.99	-0.99	1	1	0	600	600	0
4/26/2024 21:59	53502	EVIL_T2	0	3	3	0	0.27	0.27	0.51	0.47	0	0	0	0	0	0
4/26/2024 21:59	66504	SMAN_T2	4	2	-2	0.15	0.2	0.05	0	0	0	0	0	0	0	0
4/26/2024 21:59	59202	THOM_T1	1057	1127	70	1.4	1.4	0	0	0	0	0	0	0	0	0
4/26/2024 21:59	62601	ENGL_T1	0	1	1	0	0	0	-0.21	-0.25	0	0	0	0	0	0
4/26/2024 21:59	52004	LING_T2	1	1	0	0.1	0.2	0.1	0.09	0.08	0	0	0	0	0	0
4/26/2024 21:59	46004	BERW_T2	0	0	0	0	0	0	-1.54	-1.72	0	0	0	0	0	0
4/26/2024 21:59	43105	SMIL_T2	1	10	9	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/26/2024 21:59	58402	MORO_T1	0	0	0	0	0	0	-0.64	-0.66	2	2	0	1500	1500	0
4/26/2024 21:59	11303	EMMA_T1	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
4/26/2024 21:59	57401	SPAN_T1	2	2	0	0.45	0.45	0	-1.25	-1	1	1	0	600	600	0
4/26/2024 21:59	64204	KINZ_T1	41	184	143	0.43	0.31	-0.12	0	0	0	0	0	0	0	0
4/26/2024 21:59	64701	LITI_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
4/26/2024 21:59	66503	SMAN_T2	80	7	-73	0.12	0.19	0.07	0	0	0	0	0	0	0	0
4/26/2024 21:59	55002	NEWP_T1	5	5	0	0.62	0.74	0.12	-0.32	-0.32	0	0	0	0	0	0
4/26/2024 21:59	26002	WDAM_T1	1	5	4	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
4/26/2024 21:59	52006	LING_T2	3	3	0	0.87	1.03	0.16	0	0	0	0	0	0	0	0
4/26/2024 21:59	54601	SUMM_T2	13	12	-1	0.75	0.91	0.16	-2.01	-2.06	2	2	0	2100	2100	0
4/26/2024 21:59	67605	WARW_T1	45	46	1	0.62	0.66	0.04	-1.04	-1.06	0	0	0	0	0	0
4/26/2024 21:59	59302	MCAL_T1	5	6	1	0.82	0.82	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 21:59	49804	UNIV_T1	2	2	0	0.15	0.65	0.5	0.33	0.37	0	0	0	0	0	0
4/26/2024 21:59	57004	WHHI_T2	0	0	0	0	0	0	-0.72	-0.76	0	0	0	0	0	0
4/26/2024 21:59	26001	WDAM_T1	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
4/26/2024 21:59	62607	ENGL_T1	0	49	49	0	0.11	0.11	0	0	0	0	0	0	0	0
4/26/2024 21:59	54505	ENOL_T2	1	1	0	1	1.1	0.1	-2.82	-2.84	2	2	0	1200	1200	0
4/26/2024 21:59	59201	THOM_T1	166	166	0	1.13	1.17	0.04	0	0	0	0	0	0	0	0
4/26/2024 21:59	66501	SMAN_T2	51	41	-10	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
4/26/2024 21:59	29402	BELT_T1	1	1	0	7.4	7.8	0.4	0	0	0	0	0	0	0	0
4/26/2024 21:59	64101	REFR_T1	0	0	0	0	0	0	-0.91	-0.9	0	0	0	0	0	0
4/26/2024 21:59	44502	HAMI_T2	1	1	0	3.4	3.6	0.2	0	0	0	0	0	0	0	0
4/26/2024 21:59	44504	HAMI_T2	0	0	0	0	0	0	-1.37	-1.4	0	0	0	0	0	0
4/26/2024 21:59	54501	ENOL_T2	0	2	2	0	0.1	0.1	0.13	0.06	0	0	0	0	0	0
4/26/2024 21:59	43301	WATS_T2	0	0	0	0	0	0	-0.87	-0.86	1	1	0	900	900	0
4/26/2024 21:59	11302	EMMA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:59	40602	PIGR_T1	1	1	0	0.5	0.2	-0.3	0.46	0.44	0	0	0	0	0	0
4/26/2024 21:59	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:59	15001	BLMO_T1	4	4	0	0.48	0.8	0.32	0	0	0	0	0	0	0	0
4/26/2024 21:59	61301	EARL_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
4/26/2024 21:59	46506	LOHA_T1	0	1	1	0	0.2	0.2	-0.5	-0.52	0	0	0	0	0	0
4/26/2024 21:59	47001	HUGH_T2	0	0	0	0	0	0	-0.34	-0.39	0	0	0	0	0	0
4/26/2024 21:59	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/26/2024 21:59	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	2	1	600	1800	1200
4/26/2024 21:59	50502	MECH_T1	1	1	0	2.6	3	0.4	0	0	0	0	0	0	0	0
4/26/2024 21:59	50506	MECH_T1	0	1	1	0	0	0	-0.24	-0.45	0	0	0	0	0	0
4/26/2024 21:59	50504	MECH_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
4/26/2024 21:59	61703	ELIZ_T1	0	0	0	0	0	0	-2.68	-2.66	2	2	0	2100	2100	0
4/26/2024 21:59	64202	KINZ_T1	68	94	26	0.35	0.61	0.26	0.25	0.26	0	0	0	0	0	0
4/26/2024 21:59	50505	MECH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 21:59	54602	SUMM_T2	10	10	0	0.32	0.38	0.06	0	0	0	0	0	0	0	0
4/26/2024 21:59	50501	MECH_T1	4	4	0	1.85	2.1	0.25	0	0	0	0	0	0	0	0
4/26/2024 21:59	61701	ELIZ_T1	1	1	0	5.8	4.9	-0.9	0	0	0	0	0	0	0	0
4/26/2024 21:59	14204	EALL_T2	0	4	4	0	0.1	0.1	-0.85	-0.78	0	0	0	0	0	0
4/26/2024 21:59	57403	SPAN_T1	13	66	53	0.18	0.23	0.05	0	0	0	0	0	0	0	0
4/26/2024 21:59	62605	ENGL_T1	1	7	6	0.1	0.18	0.08	0	0	0	0	0	0	0	0
4/26/2024 21:59	43103	SMIL_T2	21	21	0	0.63	0.9	0.27	0	0	0	0	0	0	0	0
4/26/2024 21:59	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/26/2024 21:59	14404	SSLA_T1	2	2	0	3.35	3.6	0.25	0	0	0	0	0	0	0	0
4/26/2024 21:59	20401	ASHF_T2	1	2	1	0.1	0.2	0.1	-0.48	-0.51	0	0	0	0	0	0
4/26/2024 21:59	54603	SUMM_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/26/2024 21:59	40601	PIGR_T1	7	54	47	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/26/2024 21:59	53501	EVIL_T2	5	83	78	0.84	0.21	-0.63	0	0	0	0	0	0	0	0
4/26/2024 21:59	46504	LOHA_T1	2	46	44	1.45	0.32	-1.13	0	0	0	0	0	0	0	0
4/26/2024 21:59	20403	ASHF_T2	42	44	2	1.08	1.35	0.27	0	0	0	0	0	0	0	0
4/26/2024 21:59	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 21:59	60903	DONG_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 21:59	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 22:00	61701	ELIZ_T1	1	1	0	4.9	4.4	-0.5	1.01	0.95	0	0	0	0	0	0
4/26/2024 22:00	50501	MECH_T1	4	4	0	2.1	1.13	-0.97	0	0	0	0	0	0	0	0
4/26/2024 22:00	65205	PRIN_T1	1	1	0	2.2	2.1	-0.1	0	0	0	0	0	0	0	0
4/26/2024 22:00	51402	LYKE_T1	0	53	53	0	0.19	0.19	-0.79	-0.8	0	0	0	0	0	0
4/26/2024 22:00	61304	EARL_T1	0	0	0	0	0	0	-0.45	-0.48	0	0	0	0	0	0
4/26/2024 22:00	13601	RICH_T2	0	0	0	0	0	0	-0.1	-0.16	1	1	0	600	600	0
4/26/2024 22:00	57401	SPAN_T1	2	0	-2	0.45	0	-0.45	-1.25	-1	1	1	0	600	600	0
4/26/2024 22:00	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 22:00	53903	HALI_T2	2	2	0	1.8	1.2	-0.6	-0.21	-0.23	0	0	0	0	0	0
4/26/2024 22:00	66504	SMAN_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 22:00	26001	WDAM_T1	0	0	0	0	0	0	-0.88	-0.86	0	0	0	0	0	0
4/26/2024 22:00	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 22:00	20401	ASHF_T2	2	0	-2	0.2	0	-0.2	-0.48	-0.51	0	0	0	0	0	0
4/26/2024 22:00	53901	HALI_T2	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
4/26/2024 22:00	43304	WATS_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
4/26/2024 22:00	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 22:00	54505	ENOL_T2	1	1	0	1.1	0.6	-0.5	-1.41	-1.42	1	1	0	600	600	0
4/26/2024 22:00	50506	MECH_T1	0	0	0	0	0	0	-0.47	-0.9	0	0	0	0	0	0
4/26/2024 22:00	13501	MCMI_T1	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
4/26/2024 22:00	50502	MECH_T1	1	1	0	3	2.1	-0.9	0	0	0	0	0	0	0	0
4/26/2024 22:00	49803	UNIV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/26/2024 22:00	26002	WDAM_T1	2	5	3	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
4/26/2024 22:00	46001	BERW_T1	0	1	1	0	0	0	0.47	0.47	0	0	0	0	0	0
4/26/2024 22:00	15702	TANN_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
4/26/2024 22:00	22101	EDEL_T2	0	0	0	0	0	0	0.33	0.35	1	1	0	1200	1200	0
4/26/2024 22:00	55101	WERT_T1	0	0	0	0	0	0	-2.06	-2.03	2	2	0	1800	1800	0
4/26/2024 22:00	43102	SMIL_T2	8	9	1	0.65	0.76	0.11	0	0	0	0	0	0	0	0
4/26/2024 22:00	40504	CRES_T1	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
4/26/2024 22:00	47203	FAXO_T2	0	0	0	0	0	0	-1.75	-1.73	1	1	0	1200	1200	0
4/26/2024 22:00	53902	HALI_T2	1	1	0	6.2	5.6	-0.6	0	0	0	0	0	0	0	0
4/26/2024 22:00	59101	WALK_T2	35	30	-5	1.25	0.49	-0.76	-0.6	-0.65	0	0	0	0	0	0
4/26/2024 22:00	45303	WBER_T2	8	8	0	0.71	0.86	0.15	-0.42	-0.47	0	0	0	0	0	0
4/26/2024 22:00	57006	WHHI_T2	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
4/26/2024 22:00	42701	AUGU_T1	0	1	1	0	0.7	0.7	0	0	2	4	2	1200	3600	2400
4/26/2024 22:00	66503	SMAN_T2	7	0	-7	0.19	0	-0.19	0	0	0	0	0	0	0	0
4/26/2024 22:00	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 22:00	50505	MECH_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/26/2024 22:00	20403	ASHF_T2	44	44	0	1.22	1.35	0.13	0	0	0	0	0	0	0	0
4/26/2024 22:00	14802	TREI_T2	1	0	-1	0.1	0	-0.1	0.24	0.22	0	0	0	0	0	0
4/26/2024 22:00	40902	JESH_T1	0	20	20	0	0.12	0.12	-2.01	-2.09	0	0	0	0	0	0
4/26/2024 22:00	57403	SPAN_T1	66	13	-53	0.23	0.16	-0.07	0	0	0	0	0	0	0	0
4/26/2024 22:00	66505	SMAN_T2	3	0	-3	0.27	0	-0.27	-0.17	-0.15	1	1	0	900	900	0
4/26/2024 22:00	64101	REFR_T1	0	0	0	0	0	0	-0.91	-0.9	0	0	0	0	0	0
4/26/2024 22:00	44301	BEAV_T2	0	0	0	0	0	0	0.09	0.04	1	1	0	600	600	0
4/26/2024 22:00	49804	UNIV_T1	2	2	0	0.5	0.65	0.15	0.33	0.37	0	0	0	0	0	0
4/26/2024 22:00	66501	SMAN_T2	41	0	-41	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/26/2024 22:00	15703	TANN_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
4/26/2024 22:00	59102	WALK_T2	338	135	-203	0.83	0.67	-0.16	0	0	0	0	0	0	0	0
4/26/2024 22:00	67605	WARW_T1	46	14	-32	0.66	0.51	-0.15	-1.04	-1.06	0	0	0	0	0	0
4/26/2024 22:00	28403	HART_T2	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
4/26/2024 22:00	14801	TREI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/26/2024 22:00	67501	WEWI_T1	0	1	1	0	0.1	0.1	-0.77	-0.76	0	0	0	0	0	0
4/26/2024 22:00	50504	MECH_T1	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
4/26/2024 22:00	40505	CRES_T1	3	3	0	6.13	6.23	0.1	0	0	0	0	0	0	0	0
4/26/2024 22:00	43105	SMIL_T2	0	10	10	0	0.13	0.13	0	0	0	0	0	0	0	0
4/26/2024 22:00	43108	SMIL_T2	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
4/26/2024 22:00	13606	RICH_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
4/26/2024 22:00	45602	WOOL_T1	2	3	1	0.5	0.5	0	0.31	0.33	0	0	0	0	0	0
4/26/2024 22:00	65502	MOJO_T2	391	0	-391	0.48	0	-0.48	0	0	0	0	0	0	0	0
4/26/2024 22:00	43103	SMIL_T2	20	21	1	0.76	0.98	0.22	0	0	0	0	0	0	0	0
4/26/2024 22:00	20603	GRWO_T2	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
4/26/2024 22:00	63804	HEMP_T1	1	1	0	5.8	5.5	-0.3	0.24	0.21	0	0	0	0	0	0
4/26/2024 22:00	65501	MOJO_T1	0	0	0	0	0	0	0.34	-0.09	0	0	0	0	0	0
4/26/2024 22:00	61303	EARL_T1	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
4/26/2024 22:00	53102	WTWN_T1	0	106	106	0	0.16	0.16	-0.57	-0.54	0	0	0	0	0	0
4/26/2024 22:00	53101	WTWN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 22:00	54502	ENOL_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
4/26/2024 22:00	65503	MOJO_T2	403	0	-403	0.32	0	-0.32	-0.49	-0.56	0	0	0	0	0	0
4/26/2024 22:00	54501	ENOL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/26/2024 22:00	43302	WATS_T2	4	4	0	0.65	0.83	0.18	0	0	0	0	0	0	0	0
4/26/2024 22:00	66502	SMAN_T2	4	0	-4	0.1	0	-0.1	-0.15	-0.13	0	0	0	0	0	0
4/26/2024 22:01	43102	SMIL_T2	8	9	1	0.65	0.76	0.11	0	0	0	0	0	0	0	0
4/26/2024 22:01	54206	PENN_T2	42	0	-42	0.26	0	-0.26	-0.09	-0.13	0	0	0	0	0	0
4/26/2024 22:01	60502	NMAN_T2	18	0	-18	0.18	0	-0.18	-0.68	-0.74	0	0	0	0	0	0
4/26/2024 22:01	63401	HONY_T1	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
4/26/2024 22:01	44201	POIN_T1	289	554	265	0.23	0.35	0.12	-2.48	-2.47	2	2	0	2100	2100	0
4/26/2024 22:01	41502	FAIR_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
4/26/2024 22:01	13704	SCHN_T2	6	5	-1	0.22	0.32	0.1	-0.48	-0.5	0	0	0	0	0	0
4/26/2024 22:01	63404	HONY_T1	75	132	57	0.22	0.32	0.1	0	0	0	0	0	0	0	0
4/26/2024 22:01	59302	MCAL_T1	6	2	-4	0.82	1.15	0.33	0.18	0.14	0	0	0	0	0	0
4/26/2024 22:01	66505	SMAN_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
4/26/2024 22:01	43104	SMIL_T2	0	1	1	0	0.1	0.1	-0.9	-0.9	1	1	0	300	300	0
4/26/2024 22:01	60501	NMAN_T2	45	3	-42	0.67	5.2	4.53	0	0	0	0	0	0	0	0
4/26/2024 22:01	54202	PENN_T2	138	0	-138	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/26/2024 22:01	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.13	0	0	0	0	0	0
4/26/2024 22:01	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 22:01	64101	REFR_T1	0	0	0	0	0	0	-1.83	-1.79	0	0	0	0	0	0
4/26/2024 22:01	60803	BUCK_T1	4	14	10	0.1	0.23	0.13	0	0	0	0	0	0	0	0
4/26/2024 22:01	44301	BEAV_T2	0	0	0	0	0	0	0.18	0.09	2	2	0	1200	1200	0
4/26/2024 22:01	66503	SMAN_T2	7	0	-7	0.19	0	-0.19	0	0	0	0	0	0	0	0
4/26/2024 22:01	66502	SMAN_T2	4	0	-4	0.1	0	-0.1	-0.15	-0.13	0	0	0	0	0	0
4/26/2024 22:01	54204	PENN_T2	3	1	-2	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/26/2024 22:01	59301	MCAL_T1	169	85	-84	0.74	0.6	-0.14	0	0	0	0	0	0	0	0
4/26/2024 22:01	42802	SELI_T1	0	0	0	0	0	0	-1.05	-0.1	1	0	-1	900	0	-900
4/26/2024 22:01	13701	SCHN_T2	0	3	3	0	0.1	0.1	-0.11	-0.12	1	1	0	600	600	0
4/26/2024 22:01	43103	SMIL_T2	20	21	1	0.76	0.98	0.22	0	0	0	0	0	0	0	0
4/26/2024 22:01	47401	PENS_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
4/26/2024 22:01	66504	SMAN_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 22:01	43105	SMIL_T2	0	10	10	0	0.13	0.13	0	0	0	0	0	0	0	0
4/26/2024 22:01	54701	NEBL_T1	7	4	-3	1.1	0.25	-0.85	0	0	0	0	0	0	0	0
4/26/2024 22:01	60801	BUCK_T1	8	48	40	0.1	0.26	0.16	-0.27	-0.26	0	0	0	0	0	0
4/26/2024 22:01	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 22:01	55101	WERT_T1	0	0	0	0	0	0	-1.03	-1.01	1	1	0	900	900	0
4/26/2024 22:01	45501	DERR_T2	0	0	0	0	0	0	-0.37	-0.4	2	2	0	1800	1800	0
4/26/2024 22:01	42201	SHEN_T2	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
4/26/2024 22:01	66501	SMAN_T2	41	0	-41	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/26/2024 22:01	28403	HART_T2	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
4/26/2024 22:01	16605	PONO_T1	0	0	0	0	0	0	0.55	-0.86	0	1	1	0	1200	1200
4/26/2024 22:02	66502	SMAN_T2	4	0	-4	0.1	0	-0.1	-0.15	-0.13	0	0	0	0	0	0
4/26/2024 22:02	42001	MNVL_T2	0	4	4	0	0.13	0.13	-0.09	-0.1	0	0	0	0	0	0
4/26/2024 22:02	54505	ENOL_T2	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
4/26/2024 22:02	64501	LAVI_T1	61	0	-61	0.18	0	-0.18	-0.44	-0.44	0	0	0	0	0	0
4/26/2024 22:02	43302	WATS_T2	4	4	0	0.65	0.83	0.18	0	0	0	0	0	0	0	0
4/26/2024 22:02	20401	ASHF_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 22:02	42002	MNVL_T2	1	1	0	3	2.7	-0.3	0	0	0	0	0	0	0	0
4/26/2024 22:02	66503	SMAN_T2	7	0	-7	0.19	0	-0.19	0.3	0.22	0	0	0	0	0	0
4/26/2024 22:02	42902	MIDD_T2	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 22:02	45501	DERR_T2	0	0	0	0	0	0	-0.37	-0.4	2	2	0	1800	1800	0
4/26/2024 22:02	67601	WARW_T2	0	0	0	0	0	0	-0.83	-0.86	0	0	0	0	0	0
4/26/2024 22:02	20403	ASHF_T2	44	44	0	1.22	1.35	0.13	0.03	0.01	0	0	0	0	0	0
4/26/2024 22:02	54502	ENOL_T2	1	1	0	0.8	0.2	-0.6	-1.16	-1.16	1	1	0	600	600	0
4/26/2024 22:02	58001	WCAR_T1	13	4	-9	0.76	1.48	0.72	0	0	0	0	0	0	0	0
4/26/2024 22:02	58401	MORO_T1	0	0	0	0	0	0	-1.33	-1.35	1	1	0	600	600	0
4/26/2024 22:02	50502	MECH_T1	1	1	0	3	2.1	-0.9	0	0	0	0	0	0	0	0
4/26/2024 22:02	61103	BERK_T5	89	0	-89	0.13	0	-0.13	0	-0.01	0	0	0	0	0	0
4/26/2024 22:02	57403	SPAN_T1	66	13	-53	0.23	0.16	-0.07	0	0	0	0	0	0	0	0
4/26/2024 22:02	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 22:02	42201	SHEN_T2	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
4/26/2024 22:02	50505	MECH_T1	2	0	-2	0.1	0	-0.1	-0.98	-0.98	0	0	0	0	0	0
4/26/2024 22:02	65903	SAKR_T2	2	0	-2	0.2	0	-0.2	-1.49	-1.49	3	3	0	2100	2100	0
4/26/2024 22:02	43304	WATS_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
4/26/2024 22:02	67401	WAKE_T2	57	109	52	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/26/2024 22:02	43102	SMIL_T2	8	9	1	0.65	0.76	0.11	-0.99	-0.99	1	1	0	600	600	0
4/26/2024 22:02	61703	ELIZ_T1	0	0	0	0	0	0	-2.68	-2.66	2	2	0	2100	2100	0
4/26/2024 22:02	50504	MECH_T1	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
4/26/2024 22:02	44502	HAMI_T2	1	1	0	3.5	3.8	0.3	-1.06	-1.07	0	0	0	0	0	0
4/26/2024 22:02	61101	BERK_T5	50	0	-50	0.21	0	-0.21	0	0	0	0	0	0	0	0
4/26/2024 22:02	47401	PENS_T1	0	0	0	0	0	0	1.29	1.29	0	0	0	0	0	0
4/26/2024 22:02	42701	AUGU_T1	0	1	1	0	0.7	0.7	0	0	2	4	2	1200	3600	2400
4/26/2024 22:02	61701	ELIZ_T1	1	1	0	4.9	4.4	-0.5	0	0	0	0	0	0	0	0
4/26/2024 22:02	44201	POIN_T1	289	554	265	0.23	0.35	0.12	-2.48	-2.47	2	2	0	2100	2100	0
4/26/2024 22:02	57401	SPAN_T1	2	0	-2	0.45	0	-0.45	-1.25	-1	1	1	0	600	600	0
4/26/2024 22:02	65902	SAKR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 22:02	13901	SEID_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
4/26/2024 22:02	43103	SMIL_T2	20	21	1	0.76	0.98	0.22	0	0	0	0	0	0	0	0
4/26/2024 22:02	54501	ENOL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/26/2024 22:02	14601	SWHI_T1	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
4/26/2024 22:02	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 22:02	57004	WHIH_T2	0	0	0	0	0	0	-0.72	-0.76	0	0	0	0	0	0
4/26/2024 22:02	55002	NEWP_T1	5	3	-2	0.74	0.17	-0.57	-0.32	-0.32	0	0	0	0	0	0
4/26/2024 22:02	61302	EARL_T1	0	0	0	0	0	0	1.25	0.73	0	1	1	0	600	600
4/26/2024 22:02	50501	MECH_T1	4	4	0	2.1	1.13	-0.97	0	0	0	0	0	0	0	0
4/26/2024 22:02	64502	LAVI_T1	21	0	-21	0.11	0	-0.11	0	0	0	0	0	0	0	0
4/26/2024 22:02	43105	SMIL_T2	0	10	10	0	0.13	0.13	0	0	0	0	0	0	0	0
4/26/2024 22:02	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 22:02	55101	WERT_T1	0	0	0	0	0	0	-2.06	-2.03	2	2	0	1800	1800	0
4/26/2024 22:02	66504	SMAN_T2	2	0	-2	0.2	0	-0.2	-0.73	-0.74	0	0	0	0	0	0
4/26/2024 22:02	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 22:02	64503	LAVI_T1	26	0	-26	0.12	0	-0.12	0	0	0	0	0	0	0	0
4/26/2024 22:02	67402	WAKE_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
4/26/2024 22:02	61803	EELI_T2	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
4/26/2024 22:02	61102	BERK_T5	1	0	-1	0.5	0	-0.5	0.27	0.05	1	1	0	300	300	0
4/26/2024 22:02	66501	SMAN_T2	41	0	-41	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/26/2024 22:02	66505	SMAN_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
4/26/2024 22:02	58003	WCAR_T1	76	13	-63	0.36	0.25	-0.11	0.56	0.53	0	0	0	0	0	0
4/26/2024 22:02	10801	CHIH_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	900	900	0
4/26/2024 22:03	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.79	0	0	0	0	0	0
4/26/2024 22:03	50504	MECH_T1	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
4/26/2024 22:03	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 22:03	50505	MECH_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/26/2024 22:03	59301	MCAL_T1	169	85	-84	0.74	0.6	-0.14	-1.23	-1.23	0	0	0	0	0	0
4/26/2024 22:03	14404	SSLA_T1	2	1	-1	3.6	6.2	2.6	0	0	0	0	0	0	0	0
4/26/2024 22:03	45402	WBLO_T2	1	1	0	0.2	1.2	1	-0.98	-0.98	0	0	0	0	0	0
4/26/2024 22:03	13701	SCHN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 22:03	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.13	0	0	0	0	0	0
4/26/2024 22:03	14802	TREI_T2	1	0	-1	0.1	0	-0.1	0.24	0.22	0	0	0	0	0	0
4/26/2024 22:03	60903	DONG_T2	0	0	0	0	0	0	0.91	0.9	1	1	0	600	600	0
4/26/2024 22:03	59302	MCAL_T1	6	2	-4	0.82	1.15	0.33	0	0	0	0	0	0	0	0
4/26/2024 22:03	40601	PIGR_T1	54	6	-48	0.14	0.12	-0.02	-0.23	-0.28	0	0	0	0	0	0
4/26/2024 22:03	13704	SCHN_T2	6	5	-1	0.22	0.32	0.1	-0.48	-0.5	0	0	0	0	0	0
4/26/2024 22:03	14401	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 22:03	50501	MECH_T1	4	4	0	2.1	1.13	-0.97	0	0	0	0	0	0	0	0
4/26/2024 22:03	14801	TREI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/26/2024 22:03	60902	DONG_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 22:03	45602	WOOL_T1	2	3	1	0.5	0.5	0	0.31	0.33	0	0	0	0	0	0
4/26/2024 22:03	54203	PENN_T1	18	18	0	1.07	0.61	-0.46	0.58	0.57	0	0	0	0	0	0
4/26/2024 22:03	64305	LINC_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/26/2024 22:03	66701	STRA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 22:03	40602	PIGR_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/26/2024 22:03	64303	LINC_T1	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
4/26/2024 22:03	42902	MIDD_T2	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
4/26/2024 22:03	50502	MECH_T1	1	1	0	3	2.1	-0.9	0	0	0	0	0	0	0	0
4/26/2024 22:03	50506	MECH_T1	0	0	0	0	0	0	-0.47	-0.9	0	0	0	0	0	0
4/26/2024 22:03	54001	SDLE_T1	92	8	-84	0.27	0.7	0.43	0	0	0	0	0	0	0	0
4/26/2024 22:03	15103	LPHA_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
4/26/2024 22:03	11301	EMMA_T1	0	0	0	0	0	0	-0.96	-0.94	0	0	0	0	0	0
4/26/2024 22:03	61801	EELI_T2	0	0	0	0	0	0	-1.11	-1.28	0	0	0	0	0	0
4/26/2024 22:03	42701	AUGU_T1	0	1	1	0	0.7	0.7	0	0	1	2	1	600	1800	1200
4/26/2024 22:03	46002	BERW_T2	0	0	0	0	0	0	-0.3	-0.35	0	0	0	0	0	0
4/26/2024 22:03	61502	EPET_T1	63	0	-63	0.2	0	-0.2	-1.29	-1.17	0	0	0	0	0	0
4/26/2024 22:03	63804	HEMP_T1	1	1	0	5.8	5.5	-0.3	0.24	0.21	0	0	0	0	0	0
4/26/2024 22:03	55101	WERT_T1	0	0	0	0	0	0	-2.06	-2.03	2	2	0	1800	1800	0
4/26/2024 22:03	54201	PENN_T1	11	7	-4	0.81	0.51	-0.3	0	0	0	0	0	0	0	0
4/26/2024 22:03	46203	DANV_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
4/26/2024 22:03	45902	AUBU_T1	7	0	-7	0.11	0	-0.11	-0.69	-0.7	0	0	0	0	0	0
4/26/2024 22:03	14403	SSLA_T1	0	0	0	0	0	0	1.02	0.94	0	0	0	0	0	0
4/26/2024 22:03	66703	STRA_T1	4	157	153	0.33	0.32	-0.01	-0.41	-0.35	0	0	0	0	0	0
4/26/2024 22:04	54505	ENOL_T2	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
4/26/2024 22:04	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 22:04	53502	EVIL_T2	1	55	54	0.1	0.16	0.06	0.51	0.47	0	0	0	0	0	0
4/26/2024 22:04	45303	WBER_T2	8	8	0	0.71	0.86	0.15	-0.42	-0.47	0	0	0	0	0	0
4/26/2024 22:04	66502	SMAN_T2	4	0	-4	0.1	0	-0.1	-0.15	-0.13	0	0	0	0	0	0
4/26/2024 22:04	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 22:04	46001	BERW_T1	0	1	1	0	0	0	0.47	0.47	0	0	0	0	0	0
4/26/2024 22:04	62607	ENGL_T1	0	176	176	0	0.15	0.15	0	0	0	0	0	0	0	0
4/26/2024 22:04	46203	DANV_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
4/26/2024 22:04	57401	SPAN_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
4/26/2024 22:04	20401	ASHF_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 22:04	62604	ENGL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 22:04	42902	MIDD_T2	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
4/26/2024 22:04	54501	ENOL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/26/2024 22:04	64101	REFR_T1	0	0	0	0	0	0	-0.91	-0.9	0	0	0	0	0	0
4/26/2024 22:04	54503	ENOL_T2	0	0	0	0	0	0	-1.34	-1.37	1	1	0	600	600	0
4/26/2024 22:04	43302	WATS_T2	4	4	0	0.65	0.83	0.18	0	0	0	0	0	0	0	0
4/26/2024 22:04	63804	HEMP_T1	1	1	0	5.8	5.5	-0.3	0.48	0.43	0	0	0	0	0	0
4/26/2024 22:04	65902	SAKR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 22:04	47202	FAXO_T2	0	0	0	0	0	0	-1.05	-1.06	0	0	0	0	0	0
4/26/2024 22:04	66903	SHIL_T2	0	0	0	0	0	0	-1.07	-1.1	0	0	0	0	0	0
4/26/2024 22:04	66501	SMAN_T2	41	0	-41	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/26/2024 22:04	51301	WIND_T1	0	0	0	0	0	0	-0.47	-0.45	0	0	0	0	0	0
4/26/2024 22:04	54502	ENOL_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
4/26/2024 22:04	66503	SMAN_T2	7	0	-7	0.19	0	-0.19	0	0	0	0	0	0	0	0
4/26/2024 22:04	57403	SPAN_T1	66	13	-53	0.23	0.16	-0.07	-0.08	-0.06	0	0	0	0	0	0
4/26/2024 22:04	66504	SMAN_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 22:04	66901	SHIL_T2	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
4/26/2024 22:04	43301	WATS_T2	0	0	0	0	0	0	-0.87	-0.86	1	1	0	900	900	0
4/26/2024 22:04	54001	SDLE_T1	92	8	-84	0.27	0.7	0.43	0	0	0	0	0	0	0	0
4/26/2024 22:04	62601	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 22:04	40703	FFLD_T1	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/26/2024 22:04	40701	FFLD_T1	15	29	14	0.15	0.34	0.19	0	0	0	0	0	0	0	0
4/26/2024 22:04	62605	ENGL_T1	4	35	31	0.15	0.15	0	-0.89	-0.92	0	0	0	0	0	0
4/26/2024 22:04	66505	SMAN_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
4/26/2024 22:04	20403	ASHF_T2	44	44	0	1.22	1.35	0.13	0.03	0.01	0	0	0	0	0	0
4/26/2024 22:04	53501	EVIL_T2	5	263	258	0.96	0.26	-0.7	0	0	0	0	0	0	0	0
4/26/2024 22:04	40702	FFLD_T1	25	140	115	0.12	0.22	0.1	-1.03	-1.02	1	1	0	1200	1200	0
4/26/2024 22:04	65903	SAKR_T2	2	0	-2	0.2	0	-0.2	-1.49	-1.49	3	3	0	2100	2100	0
4/26/2024 22:05	65503	MOJO_T2	403	0	-403	0.32	0	-0.32	0	0	0	0	0	0	0	0
4/26/2024 22:05	43105	SMIL_T2	0	10	10	0	0.13	0.13	0	0	0	0	0	0	0	0
4/26/2024 22:05	41802	GOCI_T2	17	0	-17	0.34	0	-0.34	0	0	0	0	0	0	0	0
4/26/2024 22:05	41801	GOCI_T2	122	29	-93	0.29	0.14	-0.15	0	0	0	0	0	0	0	0
4/26/2024 22:05	12401	MILF_T1	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
4/26/2024 22:05	66504	SMAN_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 22:05	65502	MOJO_T2	391	0	-391	0.48	0	-0.48	-1.24	-1.28	0	0	0	0	0	0
4/26/2024 22:05	46302	ROHR_T1	6	15	9	1.65	0.89	-0.76	0.09	0.1	0	0	0	0	0	0
4/26/2024 22:05	43106	SMIL_T2	0	0	0	0	0	0	-0.48	-0.48	1	1	0	1200	1200	0
4/26/2024 22:05	67106	SPRI_T2	54	0	-54	0.11	0	-0.11	0	0	0	0	0	0	0	0
4/26/2024 22:05	66505	SMAN_T2	3	0	-3	0.27	0	-0.27	-0.17	-0.15	1	1	0	900	900	0
4/26/2024 22:05	43301	WATS_T2	0	0	0	0	0	0	-1.74	-1.73	2	2	0	1800	1800	0
4/26/2024 22:05	58402	MORO_T1	0	0	0	0	0	0	-0.64	-0.66	2	2	0	1500	1500	0
4/26/2024 22:05	53903	HALI_T2	2	2	0	1.8	1.2	-0.6	0	0	0	0	0	0	0	0
4/26/2024 22:05	60701	BREC_T1	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
4/26/2024 22:05	67101	SPRI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/26/2024 22:05	43104	SMIL_T2	0	1	1	0	0.1	0.1	-1.8	-1.81	2	2	0	600	600	0
4/26/2024 22:05	63804	HEMP_T1	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
4/26/2024 22:05	66502	SMAN_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/26/2024 22:05	23001	SAJO_T1	0	0	0	0	0	0	-0.02	0.03	0	0	0	0	0	0
4/26/2024 22:05	43302	WATS_T2	4	4	0	0.65	0.83	0.18	0	0	0	0	0	0	0	0
4/26/2024 22:05	45501	DERR_T2	0	0	0	0	0	0	-0.37	-0.4	2	2	0	1800	1800	0
4/26/2024 22:05	64801	MONE_T2	5	22	17	0.16	0.18	0.02	0	0	0	0	0	0	0	0
4/26/2024 22:05	46301	ROHR_T1	84	151	67	0.16	0.22	0.06	0	0	0	0	0	0	0	0
4/26/2024 22:05	53901	HALI_T2	1	1	0	0.8	0.3	-0.5	-1.12	-1.11	0	0	0	0	0	0
4/26/2024 22:05	14401	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 22:05	65604	QVIL_T2	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
4/26/2024 22:05	61701	ELIZ_T1	1	1	0	4.9	4.4	-0.5	0	0	0	0	0	0	0	0
4/26/2024 22:05	14404	SSLA_T1	2	1	-1	3.6	6.2	2.6	0	0	0	0	0	0	0	0
4/26/2024 22:05	53902	HALI_T2	1	1	0	6.2	5.6	-0.6	0	0	0	0	0	0	0	0
4/26/2024 22:05	13701	SCHN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 22:05	61301	EARL_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
4/26/2024 22:05	66503	SMAN_T2	7	0	-7	0.19	0	-0.19	0	0	0	0	0	0	0	0
4/26/2024 22:05	11804	FRAN_T1	15	0	-15	0.1	0	-0.1	0.49	0.51	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/26/2024 22:05	66501	SMAN_T2	41	0	-41	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/26/2024 22:05	63801	HEMP_T1	0	0	0	0	0	0	-0.49	-0.06	0	0	0	0	0	0
4/26/2024 22:05	64802	MONE_T2	2	24	22	0.1	0.13	0.03	0.13	0.12	0	0	0	0	0	0
4/26/2024 22:05	65602	QVIL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
4/26/2024 22:05	61703	ELIZ_T1	0	0	0	0	0	0	-2.68	-2.66	2	2	0	2100	2100	0
4/26/2024 22:05	43102	SMIL_T2	8	9	1	0.65	0.76	0.11	0	0	0	0	0	0	0	0
4/26/2024 22:05	46203	DANV_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
4/26/2024 22:05	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.79	0	0	0	0	0	0
4/26/2024 22:05	11805	FRAN_T1	1	0	-1	0.1	0	-0.1	-1.63	-1.67	1	1	0	1200	1200	0
4/26/2024 22:05	43103	SMIL_T2	20	21	1	0.76	0.98	0.22	0	0	0	0	0	0	0	0
4/26/2024 22:05	61303	EARL_T1	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
4/26/2024 22:05	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 22:05	13704	SCHN_T2	6	5	-1	0.22	0.32	0.1	-0.48	-0.5	0	0	0	0	0	0
4/26/2024 22:05	14403	SSLA_T1	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
4/26/2024 22:06	55101	WERT_T1	0	0	0	0	0	0	-1.03	-1.01	1	1	0	900	900	0
4/26/2024 22:06	60801	BUCK_T1	8	48	40	0.1	0.26	0.16	-0.27	-0.26	0	0	0	0	0	0
4/26/2024 22:06	63304	GREE_T1	0	0	0	0	0	0	-0.58	-0.62	0	0	0	0	0	0
4/26/2024 22:06	43302	WATS_T2	4	4	0	0.65	0.83	0.18	0	0	0	0	0	0	0	0
4/26/2024 22:06	58402	MORO_T1	0	0	0	0	0	0	-0.64	-0.66	2	2	0	1500	1500	0
4/26/2024 22:06	52501	PROG_T1	0	0	0	0	0	0	0.28	0.29	1	1	0	300	300	0
4/26/2024 22:06	67201	TEHI_T1	0	0	0	0	0	0	0.59	0.54	0	0	0	0	0	0
4/26/2024 22:06	63305	GREE_T1	7	15	8	0.19	0.25	0.06	0	0	0	0	0	0	0	0
4/26/2024 22:06	65902	SAKR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 22:06	54001	SDLE_T1	92	8	-84	0.27	0.7	0.43	0	0	0	0	0	0	0	0
4/26/2024 22:06	60803	BUCK_T1	4	14	10	0.1	0.23	0.13	0	0	0	0	0	0	0	0
4/26/2024 22:06	61702	ELIZ_T2	0	0	0	0	0	0	-1.06	-1.07	1	1	0	300	300	0
4/26/2024 22:06	57004	WHHI_T2	0	0	0	0	0	0	-0.72	-0.76	0	0	0	0	0	0
4/26/2024 22:06	46004	BERW_T2	0	0	0	0	0	0	-0.77	-0.86	0	0	0	0	0	0
4/26/2024 22:06	59003	MIFF_T1	32	1	-31	0.18	1.2	1.02	0.25	0.24	0	0	0	0	0	0
4/26/2024 22:06	61704	ELIZ_T2	5	0	-5	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/26/2024 22:06	58401	MORO_T1	0	0	0	0	0	0	-2.66	-2.7	2	2	0	1200	1200	0
4/26/2024 22:06	64101	REFR_T1	0	0	0	0	0	0	-0.91	-0.9	0	0	0	0	0	0
4/26/2024 22:06	59001	MIFF_T1	39	0	-39	0.32	0	-0.32	0	0	0	0	0	0	0	0
4/26/2024 22:06	43301	WATS_T2	0	0	0	0	0	0	-0.87	-0.86	1	1	0	900	900	0
4/26/2024 22:06	59002	MIFF_T1	38	6	-32	0.4	0.73	0.33	0	0	0	0	0	0	0	0
4/26/2024 22:06	47401	PENS_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
4/26/2024 22:06	65903	SAKR_T2	2	0	-2	0.2	0	-0.2	-1.49	-1.49	3	3	0	2100	2100	0
4/26/2024 22:07	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 22:07	52002	LING_T2	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
4/26/2024 22:07	67401	WAKE_T2	57	109	52	0.17	0.23	0.06	0	0	0	0	0	0	0	0
4/26/2024 22:07	42001	MNVL_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
4/26/2024 22:07	42002	MNVL_T2	1	1	0	3	2.7	-0.3	0.13	0.11	0	0	0	0	0	0
4/26/2024 22:07	49804	UNIV_T1	2	2	0	0.5	0.65	0.15	0.33	0.37	0	0	0	0	0	0
4/26/2024 22:07	59202	THOM_T1	1126	797	-329	1.4	1.01	-0.39	0	0	0	0	0	0	0	0
4/26/2024 22:07	49803	UNIV_T1	0	1	1	0	0.3	0.3	0.07	0.02	0	0	0	0	0	0
4/26/2024 22:07	52006	LING_T2	3	3	0	1	1.03	0.03	0	0	0	0	0	0	0	0
4/26/2024 22:07	43801	SWIL_T1	2	3	1	3.35	3.45	0.1	0	0	0	0	0	0	0	0
4/26/2024 22:07	53902	HALI_T2	1	1	0	6.2	5.6	-0.6	-0.32	-0.31	0	0	0	0	0	0
4/26/2024 22:07	57401	SPAN_T1	2	0	-2	0.45	0	-0.45	-1.25	-1	1	1	0	600	600	0
4/26/2024 22:07	53901	HALI_T2	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
4/26/2024 22:07	53903	HALI_T2	2	2	0	1.8	1.2	-0.6	-0.21	-0.23	0	0	0	0	0	0
4/26/2024 22:07	43802	SWIL_T1	0	0	0	0	0	0	-0.34	-0.38	1	1	0	600	600	0
4/26/2024 22:07	67402	WAKE_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
4/26/2024 22:07	55101	WERT_T1	0	0	0	0	0	0	-1.03	-1.01	1	1	0	900	900	0
4/26/2024 22:07	57403	SPAN_T1	66	13	-53	0.23	0.16	-0.07	0	0	0	0	0	0	0	0
4/26/2024 22:07	59201	THOM_T1	166	107	-59	1.17	0.71	-0.46	0	0	0	0	0	0	0	0
4/26/2024 22:07	52004	LING_T2	1	1	0	0.2	0.2	0	0.09	0.08	0	0	0	0	0	0
4/26/2024 22:08	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 22:08	43304	WATS_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
4/26/2024 22:08	59102	WALK_T2	338	135	-203	0.83	0.67	-0.16	0	0	0	0	0	0	0	0
4/26/2024 22:08	43103	SMIL_T2	20	21	1	0.76	0.98	0.22	-1.06	-1.07	0	0	0	0	0	0
4/26/2024 22:08	43302	WATS_T2	4	4	0	0.65	0.83	0.18	0	0	0	0	0	0	0	0
4/26/2024 22:08	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 22:08	44201	POIN_T1	289	554	265	0.23	0.35	0.12	-2.48	-2.47	2	2	0	2100	2100	0
4/26/2024 22:08	15104	UPHA_T2	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
4/26/2024 22:08	13105	NHAM_T2	0	0	0	0	0	0	-0.82	-0.84	1	1	0	1200	1200	0
4/26/2024 22:08	59101	WALK_T2	35	30	-5	1.25	0.49	-0.76	-0.65	-0.69	0	0	0	0	0	0
4/26/2024 22:08	42902	MIDD_T2	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
4/26/2024 22:08	43105	SMIL_T2	0	10	10	0	0.13	0.13	0	0	0	0	0	0	0	0
4/26/2024 22:08	43102	SMIL_T2	8	9	1	0.65	0.76	0.11	0	0	0	0	0	0	0	0
4/26/2024 22:09	51305	WIND_T1	0	0	0	0	0	0	0.1	0.04	0	0	0	0	0	0
4/26/2024 22:09	59302	MCAL_T1	6	2	-4	0.82	1.15	0.33	0	0	0	0	0	0	0	0
4/26/2024 22:09	59301	MCAL_T1	169	85	-84	0.74	0.6	-0.14	-1.23	-1.23	0	0	0	0	0	0
4/26/2024 22:09	50505	MECH_T1	2	0	-2	0.1	0	-0.1	-0.98	-0.99	0	0	0	0	0	0
4/26/2024 22:09	50502	MECH_T1	1	1	0	3	2.1	-0.9	0	0	0	0	0	0	0	0
4/26/2024 22:09	50501	MECH_T1	4	4	0	2.1	1.13	-0.97	0	0	0	0	0	0	0	0
4/26/2024 22:09	50504	MECH_T1	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
4/26/2024 22:10	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26/2024 22:10	43105	SMIL_T2	0	10	10	0	0.13	0.13	0	0	0	0	0	0	0	0
4/26/2024 22:10	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 22:10	54206	PENN_T2	42	0	-42	0.26	0	-0.26	-0.13	-0.12	0	0	0	0	0	0
4/26/2024 22:10	43103	SMIL_T2	20	21	1	0.76	0.98	0.22	0	0	0	0	0	0	0	0
4/26/2024 22:10	43102	SMIL_T2	8	9	1	0.65	0.76	0.11	-0.99	-0.39	1	0	-1	600	0	-600
4/26/2024 22:10	54202	PENN_T2	138	0	-138	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/26/2024 22:10	54204	PENN_T2	3	1	-2	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/26/2024 22:10	40101	HUNT_T2	0	0	0	0	0	0	-0.79	-0.82	0	0	0	0	0	0
4/26/2024 22:11	53903	HALI_T2	2	2	0	1.8	1.2	-0.6	0	0	0	0	0	0	0	0
4/26/2024 22:11	64305	LINC_T1	1	0	-1	0.1	0	-0.1	-0.7	-0.79	0	0	0	0	0	0
4/26/2024 22:11	53902	HALI_T2	1	1	0	6.2	5.6	-0.6	0	0	0	0	0	0	0	0
4/26/2024 22:11	53901	HALI_T2	1	1	0	0.8	0.3	-0.5	-2.23	-2.23	0	0	0	0	0	0
4/26/2024 22:13	49804	UNIV_T1	2	2	0	0.5	0.65	0.15	0.37	0.29	0	0	0	0	0	0
4/26/2024 22:13	49803	UNIV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/26/2024 22:14	47401	PENS_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
4/26/2024 22:18	43103	SMIL_T2	21	22	1	0.9	0.95	0.05	0	0	0	0	0	0	0	0
4/26/2024 22:18	43102	SMIL_T2	9	8	-1	0.74	0.63	-0.11	-0.99	-0.39	1	0	-1	600	0	-600
4/26/2024 22:18	43105	SMIL_T2	10	8	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/26/2024 22:18	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/26/2024 22:19	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/26/2024 22:25	54204	PENN_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/26/2024 22:25	54206	PENN_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
4/26/2024 22:26	54204	PENN_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/26/2024 22:26	54202	PENN_T2	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
4/26/2024 22:29	15702	TANN_T2	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
4/26/2024 22:29	15703	TANN_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
4/26/2024 22:29	54001	SDLE_T1	8	9	1	0.66	0.66	0	0	0	0	0	0	0	0	0
4/26/2024 22:37	63801	HEMP_T1	0	160	160	0	0.2	0.2	0	0	0	0	0	0	0	0
4/26/2024 22:37	63802	HEMP_T1	0	151	151	0	0.13	0.13	0.02	0.1	0	0	0	0	0	0
4/26/2024 22:37	63803	HEMP_T1	0	93	93	0	0.18	0.18	0	0	0	0	0	0	0	0
4/26/2024 22:37	63804	HEMP_T1	1	5	4	5.5	1.24	-4.26	0	0	0	0	0	0	0	0
4/26/2024 22:47	40902	JESH_T1	0	0	0	0	0	0	-1.04	-1.08	0	0	0	0	0	0
4/26/2024 22:55	41301	FISH_T1	2	3	1	1.85	1.43	-0.42	-0.23	-0.22	0	0	0	0	0	0
4/26/2024 22:59	42802	SELI_T1	0	0	0	0	0	0	-0.1	-0.14	0	0	0	0	0	0
4/26/2024 23:44	43304	WATS_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
4/26/2024 23:44	43302	WATS_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/26/2024 23:52	67505	WEWI_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	900	900	0
4/26/2024 23:52	67501	WEWI_T1	25	32	7	0.11	0.14	0.03	0	0	0	0	0	0	0	0
4/27/2024 1:50	16301	ALPA_T1	1	1	0	0.4	0.5	0.1	-0.65	-0.63	0	0	0	0	0	0
4/27/2024 2:43	63302	GREE_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
4/27/2024 6:48	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/27/2024 6:48	53903	HALI_T2	2	2	0	1.2	0.9	-0.3	-0.2	-0.22	0	0	0	0	0	0
4/27/2024 6:48	53902	HALI_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
4/27/2024 6:55	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
4/27/2024 6:55	67703	WERN_T2	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
4/27/2024 6:55	67502	WEWI_T2	0	0	0	0	0	0	-0.62	-1.63	0	1	1	0	900	900
4/27/2024 6:55	60501	NMAN_T2	3	3	0	4.57	4.33	-0.24	0	0	0	0	0	0	0	0
4/27/2024 6:55	60502	NMAN_T2	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
4/27/2024 6:56	48302	ORWI_T2	2	2	0	0.6	0.8	0.2	-0.12	-0.11	0	0	0	0	0	0
4/27/2024 6:56	20403	ASHF_T2	13	23	10	0.18	0.34	0.16	0.09	0.12	0	0	0	0	0	0
4/27/2024 6:57	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/27/2024 6:57	45901	AUBU_T1	0	0	0	0	0	0	1.06	1.05	0	0	0	0	0	0
4/27/2024 6:57	20403	ASHF_T2	13	23	10	0.18	0.34	0.16	0.09	0.12	0	0	0	0	0	0
4/27/2024 6:57	29402	BELT_T1	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
4/27/2024 6:57	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2024 6:57	48302	ORWI_T2	2	2	0	0.6	0.8	0.2	-0.12	-0.11	0	0	0	0	0	0
4/27/2024 6:58	26703	HEML_T1	0	0	0	0	0	0	-0.94	-0.92	1	1	0	600	600	0
4/27/2024 10:00	59003	MIFF_T1	1	1	0	0.8	1.2	0.4	-0.69	-0.67	0	0	0	0	0	0
4/27/2024 10:00	66303	MCGO_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/27/2024 10:00	15103	UPHA_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
4/27/2024 10:00	24101	EHAZ_T1	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/27/2024 10:00	15404	WALL_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
4/27/2024 10:00	59202	THOM_T1	19	256	237	0.22	0.24	0.02	0	0	0	0	0	0	0	0
4/27/2024 10:00	57106	SPHI_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
4/27/2024 10:00	63302	GREE_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
4/27/2024 10:00	66505	SMAN_T2	0	0	0	0	0	0	-0.05	0.04	2	2	0	1100	1100	0
4/27/2024 10:00	57104	SPHI_T2	1	1	0	8.1	0	-8.1	-0.27	-0.22	0	0	0	0	0	0
4/27/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	0.48	0.42	0	0	0	0	0	0
4/27/2024 10:00	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/27/2024 10:00	58102	NEKI_T1	1	1	0	0.8	0.9	0.1	-1.39	-1.38	1	1	0	1200	1200	0
4/27/2024 10:00	44505	HAMI_T2	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
4/27/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	-0.8	-0.91	0	0	0	0	0	0
4/27/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2024 10:00	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
4/27/2024 10:00	53903	HALI_T2	2	2	0	1.2	1.1	-0.1	-0.14	-0.13	0	0	0	0	0	0
4/27/2024 10:00	12502	MITR_T2	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
4/27/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-2.19	-2.2	0	0	0	0	0	0
4/27/2024 10:00	12505	MITR_T2	0	0	0	0	0	0	3.18	3.22	0	0	0	0	0	0
4/27/2024 10:00	57401	SPAN_T1	0	0	0	0	0	0	-1.21	-1.23	1	1	0	600	600	0
4/27/2024 10:00	53901	HALI_T2	1	1	0	0.1	0.1	0	-1.06	-1.06	0	0	0	0	0	0
4/27/2024 10:00	29402	BELT_T1	1	1	0	7.3	7.5	0.2	0	0	0	0	0	0	0	0
4/27/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2024 10:00	12606	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/27/2024 10:00	42002	MNVL_T2	1	1	0	4	4.2	0.2	0	0	0	0	0	0	0	0
4/27/2024 10:00	62607	ENGL_T1	0	0	0	0	0	0	-1.2	-1.19	1	1	0	300	300	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/27/2024 10:00	43103	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/27/2024 10:00	25603	ARRO_T1	0	3	3	0	0.13	0.13	-0.16	-0.17	0	0	0	0	0	0
4/27/2024 10:00	62605	ENGL_T1	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
4/27/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-1.31	-1.3	1	1	0	900	900	0
4/27/2024 10:00	16605	PONO_T1	0	0	0	0	0	0	-1.08	-1.06	1	1	0	1200	1200	0
4/27/2024 10:00	24701	FLND_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
4/27/2024 10:00	56601	HAMP_T1	0	0	0	0	0	0	-1.86	-1.87	0	0	0	0	0	0
4/27/2024 10:00	67703	WERN_T2	0	0	0	0	0	0	-1.03	-1.02	1	1	0	900	900	0
4/27/2024 10:00	53501	EVIL_T2	4	4	0	0.33	0.35	0.02	-0.78	-0.77	0	0	0	0	0	0
4/27/2024 10:00	57101	SPHI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/27/2024 10:00	66502	SMAN_T2	0	0	0	0	0	0	-0.18	-0.28	0	0	0	0	0	0
4/27/2024 10:00	58001	WCAR_T1	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/27/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	-0.49	-0.51	1	1	0	600	600	0
4/27/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
4/27/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-1.22	-1.2	1	1	0	1200	1200	0
4/27/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	-0.01	-0.07	1	1	0	600	600	0
4/27/2024 10:00	45602	WOOL_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
4/27/2024 10:00	10805	CHHI_T2	1	1	0	7.4	7.8	0.4	-1.02	-0.78	0	0	0	0	0	0
4/27/2024 10:00	59002	MIFF_T1	1	5	4	0.1	0.32	0.22	0	0	0	0	0	0	0	0
4/27/2024 10:00	42001	MNVL_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
4/27/2024 10:00	63801	HEMP_T1	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
4/27/2024 10:00	12807	MICK_T1	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
4/27/2024 10:00	63305	GREE_T1	3	1	-2	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/27/2024 10:00	43102	SMIL_T2	1	5	4	0.2	0.2	0	0	0	0	0	0	0	0	0
4/27/2024 10:00	59201	THOM_T1	5	14	9	0.2	0.29	0.09	0	0	0	0	0	0	0	0
4/27/2024 10:00	47002	HUGH_T2	0	0	0	0	0	0	-0.77	-0.81	0	0	0	0	0	0
4/27/2024 10:00	22102	EDEL_T1	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
4/27/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.44	0.5	0	0	0	0	0	0
4/27/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
4/27/2024 10:00	62102	ELAN_T1	0	0	0	0	0	0	0.63	0.55	0	0	0	0	0	0
4/27/2024 10:00	53802	MBRG_T2	0	1	1	0	0	0	0.88	0.82	0	0	0	0	0	0
4/27/2024 10:00	12803	MICK_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/27/2024 10:00	58803	COCO_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/27/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
4/27/2024 10:00	27502	WEIS_T2	0	0	0	0	0	0	-0.27	-0.26	0	0	0	0	0	0
4/27/2024 10:00	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/27/2024 10:00	40505	CRES_T1	3	3	0	4.57	4.8	0.23	0.43	0.41	0	0	0	0	0	0
4/27/2024 10:00	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2024 10:00	65702	RVIL_T2	0	0	0	0	0	0	-1.12	-1.12	1	1	0	600	600	0
4/27/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
4/27/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-1.18	-1.19	4	4	0	3000	3000	0
4/27/2024 10:00	17101	WTRE_T2	2	2	0	8.35	8.8	0.45	0	0	0	0	0	0	0	0
4/27/2024 10:00	11101	EGYP_T1	3	3	0	1.9	0	-1.9	0	0	1	1	0	1200	1200	0
4/27/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0	0
4/27/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-0.55	-0.79	1	0	-1	600	0	-600
4/27/2024 10:00	43304	WATS_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
4/27/2024 10:00	63804	HEMP_T1	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
4/27/2024 10:00	24105	EHAZ_T1	4	4	0	5.7	5.5	-0.2	-2.08	-2.06	1	1	0	1200	1200	0
4/27/2024 10:00	11401	FARM_T1	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
4/27/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
4/27/2024 10:00	10801	CHHI_T1	0	0	0	0	0	0	-0.95	-0.91	1	1	0	900	900	0
4/27/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.83	0.79	0	0	0	0	0	0
4/27/2024 10:00	11104	EGYP_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/27/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.61	-0.59	0	0	0	0	0	0
4/27/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.57	-0.66	1	1	0	600	600	0
4/27/2024 10:00	44502	HAMI_T2	1	1	0	2.8	3.1	0.3	-1	-1.01	0	0	0	0	0	0
4/27/2024 10:00	48302	ORWI_T2	2	3	1	0.65	0.8	0.15	-0.07	-0.06	0	0	0	0	0	0
4/27/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.84	-0.85	1	1	0	1200	1200	0
4/27/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
4/27/2024 10:00	50701	SMEC_T1	0	0	0	0	0	0	-1	-0.98	1	1	0	900	900	0
4/27/2024 10:00	58003	WCAR_T1	1	1	0	0.7	0.9	0.2	0.47	0.49	0	0	0	0	0	0
4/27/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.79	-0.79	0	0	0	0	0	0
4/27/2024 10:00	43104	SMIL_T2	0	0	0	0	0	0	-0.85	-0.84	1	1	0	300	300	0
4/27/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
4/27/2024 10:00	40502	CRES_T2	7	8	1	0.16	0.16	0	-0.1	-0.1	0	0	0	0	0	0
4/27/2024 10:00	54001	SDLE_T1	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
4/27/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
4/27/2024 10:00	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/27/2024 10:00	64801	MONE_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
4/27/2024 10:00	24102	EHAZ_T1	2	7	5	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
4/27/2024 10:00	53902	HALI_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
4/27/2024 10:00	12604	MACA_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
4/27/2024 10:00	60501	NMAN_T2	3	3	0	3.93	3.7	-0.23	0	0	0	0	0	0	0	0
4/27/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
4/27/2024 10:00	17001	RIRO_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
4/27/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
4/27/2024 10:06	61302	EARL_T1	0	0	0	0	0	0	-0.29	-0.24	2	2	0	1800	1800	0
4/27/2024 10:06	67002	STHI_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
4/27/2024 10:06	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
4/27/2024 10:06	67603	WARW_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
4/27/2024 10:07	45602	WOOL_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
4/27/2024 10:07	61302	EARL_T1	0	0	0	0	0	0	-0.29	-0.24	2	2	0	1800	1800	0
4/27/2024 10:07	50505	MECH_T1	0	0	0	0	0	0	-0.96	-0.96	0	0	0	0	0	0
4/27/2024 10:07	46501	LOHA_T1	1	0	-1	0.4	0	-0.4	0	0	1	1	0	1200	1200	0
4/27/2024 10:07	40101	HUNT_T2	0	0	0	0	0	0	-1.44	-1.41	0	0	0	0	0	0
4/27/2024 10:07	52004	LING_T2	0	1	1	0	0	0	-0.1	-0.11	0	0	0	0	0	0
4/27/2024 10:07	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
4/27/2024 10:07	54602	SUMM_T2	0	0	0	0	0	0	-2.48	-2.5	1	1	0	600	600	0
4/27/2024 10:07	50502	MECH_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
4/27/2024 10:07	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
4/27/2024 10:07	63305	GREE_T1	3	1	-2	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/27/2024 10:07	10801	CHHI_T1	0	0	0	0	0	0	-0.95	-0.91	1	1	0	900	900	0
4/27/2024 10:07	63401	HONY_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
4/27/2024 10:07	52001	LING_T1	0	0	0	0	0	0	-1.09	-1.1	0	0	0	0	0	0
4/27/2024 10:07	63404	HONY_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/27/2024 10:07	64904	MILL_T1	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
4/27/2024 10:07	63306	GREE_T1	0	0	0	0	0	0	-1.18	-1.19	0	0	0	0	0	0
4/27/2024 10:07	60101	COCA_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
4/27/2024 10:07	53501	EVIL_T2	4	4	0	0.33	0.35	0.02	-0.78	-0.77	0	0	0	0	0	0
4/27/2024 10:07	46506	LOHA_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/27/2024 10:07	46504	LOHA_T1	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
4/27/2024 10:07	64902	MILL_T2	0	0	0	0	0	0	-0.46	-0.39	0	0	0	0	0	0
4/27/2024 10:08	51002	NHAR_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/27/2024 10:08	40701	FFLD_T1	13	25	12	0.17	0.19	0.02	0	0	0	0	0	0	0	0
4/27/2024 10:08	42903	MIDD_T2	0	2	2	0	0.15	0.15	-0.56	-0.51	0	0	0	0	0	0
4/27/2024 10:08	40702	FFLD_T1	70	73	3	0.15	0.17	0.02	0	0	0	0	0	0	0	0
4/27/2024 10:08	44201	POIN_T1	4	6	2	0.18	0.17	-0.01	-1.67	-1.53	1	1	0	1200	1200	0
4/27/2024 10:08	40901	JESH_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/27/2024 10:08	45902	AUBU_T1	0	0	0	0	0	0	-0.45	-0.4	0	0	0	0	0	0
4/27/2024 10:08	22405	MORG_T2	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
4/27/2024 10:08	51004	NHAR_T1	9	13	4	0.87	0.69	-0.18	0	0	0	0	0	0	0	0
4/27/2024 10:08	41902	REED_T1	0	0	0	0	0	0	0.91	0.85	0	0	0	0	0	0
4/27/2024 10:08	40902	JESH_T1	0	0	0	0	0	0	-1.77	-1.78	0	0	0	0	0	0
4/27/2024 10:08	40101	HUNT_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
4/27/2024 10:08	40703	FFLD_T1	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
4/27/2024 10:09	14204	EALL_T2	0	0	0	0	0	0	-0.79	-0.77	0	0	0	0	0	0
4/27/2024 10:09	45702	LIND_T2	1	1	0	0.4	0.6	0.2	-0.6	-0.6	0	0	0	0	0	0
4/27/2024 10:09	46004	BERW_T2	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
4/27/2024 10:09	46501	DERR_T2	0	0	0	0	0	0	-0.54	-0.55	2	2	0	1800	1800	0
4/27/2024 11:48	65205	PRIN_T1	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
4/27/2024 11:48	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/27/2024 15:13	52202	DEVO_T2	0	0	0	0	0	0	-0.35	-0.4	0	0	0	0	0	0
4/27/2024 21:51	65205	PRIN_T1	7	35	28	0.47	0.21	-0.26	0	0	0	0	0	0	0	0
4/27/2024 21:51	65202	PRIN_T1	9	58	49	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/27/2024 21:51	65203	PRIN_T1	5	78	73	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
4/27/2024 21:54	65203	PRIN_T1	5	78	73	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
4/27/2024 21:54	65202	PRIN_T1	9	58	49	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/27/2024 21:54	65205	PRIN_T1	7	35	28	0.47	0.21	-0.26	0	0	0	0	0	0	0	0
4/27/2024 21:58	52202	DEVO_T2	0	0	0	0	0	0	-0.49	-0.45	0	0	0	0	0	0
4/28/2024 11:36	20401	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/28/2024 11:36	16302	ALPA_T2	0	1	1	0	0.1	0.1	0.51	0.58	0	0	0	0	0	0
4/28/2024 11:36	20402	ASHF_T2	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
4/28/2024 11:36	45902	AUBU_T1	3	3	0	1.3	1.43	0.13	-0.83	-0.81	0	0	0	0	0	0
4/28/2024 11:36	20403	ASHF_T2	34	37	3	0.37	0.33	-0.04	0.07	0.11	0	0	0	0	0	0
4/28/2024 11:36	67503	WEWI_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
4/28/2024 11:36	67502	WEWI_T2	4	4	0	0.5	0.53	0.03	0	0	0	0	0	0	0	0
4/28/2024 11:37	16302	ALPA_T2	0	1	1	0	0.1	0.1	0.51	0.58	0	0	0	0	0	0
4/28/2024 11:39	20401	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/28/2024 11:39	45902	AUBU_T1	3	3	0	1.3	1.43	0.13	-0.41	-0.45	0	0	0	0	0	0
4/28/2024 11:39	20402	ASHF_T2	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
4/28/2024 11:39	20403	ASHF_T2	34	37	3	0.37	0.33	-0.04	0.11	0.1	0	0	0	0	0	0
4/28/2024 11:40	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/28/2024 11:40	44302	BEAV_T2	3	11	8	0.53	0.65	0.12	0	0	0	0	0	0	0	0
4/28/2024 11:40	61803	EELI_T2	1	1	0	0.3	0.2	-0.1	0.27	0.26	1	1	0	600	600	0
4/28/2024 11:40	54503	ENOL_T2	0	0	0	0	0	0	-1.29	-1.31	1	1	0	600	600	0
4/28/2024 11:40	44301	BEAV_T2	4	10	6	0.33	0.27	-0.06	-0.53	-0.45	1	1	0	600	600	0
4/28/2024 11:40	61801	EELI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/28/2024 11:41	45902	AUBU_T1	3	3	0	1.3	1.43	0.13	-0.41	-0.45	0	0	0	0	0	0
4/28/2024 11:42	61303	EARL_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/28/2024 11:42	61302	EARL_T1	1	4	3	1.6	0.45	-1.15	0	0	0	0	0	0	0	0
4/28/2024 11:42	63801	HEMP_T1	19	27	8	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
4/28/2024 11:42	61304	EARL_T1	0	0	0	0	0	0	-1.02	-1.02	1	1	0	600	600	0
4/28/2024 11:42	63803	HEMP_T1	7	6	-1	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
4/28/2024 11:42	63804	HEMP_T1	4	4	0	1.48	1.53	0.05	0	0	0	0	0	0	0	0
4/28/2024 11:42	63802	HEMP_T1	1	3	2	0.5	0.2	-0.3	0.18	0.22	0	0	0	0	0	0
4/28/2024 11:43	61303	EARL_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/28/2024 11:43	63803	HEMP_T1	7	6	-1	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
4/28/2024 11:43	61302	EARL_T1	1	4	3	1.6	0.45	-1.15	0	0	0	0	0	0	0	0
4/28/2024 11:43	63802	HEMP_T1	1	3	2	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/28/2024 11:43	63804	HEMP_T1	4	4	0	1.48	1.53	0.05	0.43	0.47	0	0	0	0	0	0
4/28/2024 11:43	63801	HEMP_T1	19	27	8	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
4/28/2024 11:44	61306	EARL_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
4/28/2024 11:44	52002	LING_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/28/2024 11:44	45801	HEGI_T1	0	0	0	0	0	0	-0.5	-0.47	1	1	0	900	900	0
4/28/2024 11:44	46506	LOHA_T1	1	1	0	0.2	0.1	-0.1	-0.52	-0.56	0	0	0	0	0	0
4/28/2024 11:44	52006	LING_T2	3	3	0	0.6	0.67	0.07	0	0	0	0	0	0	0	0
4/28/2024 11:44	61302	EARL_T1	1	4	3	1.6	0.45	-1.15	-0.06	0.04	1	1	0	1200	1200	0
4/28/2024 11:44	52004	LING_T2	0	1	1	0	1.4	1.4	0.12	0.14	0	0	0	0	0	0
4/28/2024 11:45	13503	MCMI_T2	4	167	163	0.4	0.31	-0.09	-0.01	-0.01	0	0	0	0	0	0
4/28/2024 11:45	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 11:45	29503	LEDG_T1	2	3	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/28/2024 11:46	12701	MACU_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
4/28/2024 11:46	46506	LOHA_T1	0	1	1	0	0.1	0.1	-0.52	-0.56	0	0	0	0	0	0
4/28/2024 11:46	46803	HEPB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/28/2024 11:46	46801	HEPB_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
4/28/2024 11:47	63601	LETO_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/28/2024 11:47	63602	LETO_T1	8	7	-1	0.41	0.47	0.06	-0.47	-0.27	0	0	0	0	0	0
4/28/2024 11:48	63802	HEMP_T1	3	1	-2	0.2	0.1	-0.1	0.35	0.43	0	0	0	0	0	0
4/28/2024 11:48	63801	HEMP_T1	24	23	-1	0.42	0.46	0.04	0	0	0	0	0	0	0	0
4/28/2024 11:48	58402	MORO_T1	0	2	2	0	0.4	0.4	-0.47	-0.45	2	2	0	1500	1500	0
4/28/2024 11:48	63803	HEMP_T1	6	6	0	0.3	0.37	0.07	0	0	0	0	0	0	0	0
4/28/2024 11:48	63804	HEMP_T1	4	2	-2	1.53	3	1.47	0	0	0	0	0	0	0	0
4/28/2024 11:49	55001	NEWP_T1	0	5	5	0	0.44	0.44	0	0	0	0	0	0	0	0
4/28/2024 11:49	55002	NEWP_T1	6	12	6	0.55	0.94	0.39	-0.48	-0.48	0	0	0	0	0	0
4/28/2024 11:50	46506	LOHA_T1	0	1	1	0	0.1	0.1	-0.52	-0.56	0	0	0	0	0	0
4/28/2024 11:50	46503	MOJO_T2	6	6	0	0.55	0.65	0.1	-0.19	-0.26	0	0	0	0	0	0
4/28/2024 11:51	16201	POFA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/28/2024 11:51	66501	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/28/2024 11:51	66505	SMAN_T2	0	0	0	0	0	0	0.21	0.21	2	2	0	1100	1100	0
4/28/2024 11:51	16203	POFA_T2	3	8	5	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
4/28/2024 11:51	66504	SMAN_T2	1	0	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/28/2024 11:51	13905	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 11:51	13904	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 11:51	58402	MORO_T1	0	2	2	0	0.4	0.4	-0.47	-0.45	2	2	0	1500	1500	0
4/28/2024 11:51	66502	SMAN_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
4/28/2024 11:52	57401	SPAN_T1	0	5	5	0	0.52	0.52	-1.27	-1.18	1	1	0	600	600	0
4/28/2024 11:52	57403	SPAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/28/2024 11:52	14802	TREI_T2	0	2	2	0	0.3	0.3	0.68	0.62	0	0	0	0	0	0
4/28/2024 11:52	13606	RICH_T2	2	2	0	3.55	3.6	0.05	0.57	0.64	0	0	0	0	0	0
4/28/2024 11:52	56501	ROCK_T2	1	12	11	0.1	0.37	0.27	-0.01	-0.01	0	0	0	0	0	0
4/28/2024 11:53	51402	LYKE_T1	36	22	-14	0.24	0.18	-0.06	-0.88	-0.85	0	0	0	0	0	0
4/28/2024 11:53	67502	WEWI_T2	4	4	0	0.53	0.55	0.02	-1.54	-1.5	1	1	0	900	900	0
4/28/2024 11:53	20402	ASHF_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
4/28/2024 11:53	45902	AUBU_T1	3	5	2	1.4	1.18	-0.22	-0.45	-0.5	0	0	0	0	0	0
4/28/2024 11:53	20403	ASHF_T2	34	32	-2	0.3	0.33	0.03	0.1	0.16	0	0	0	0	0	0
4/28/2024 11:53	27502	WEIS_T2	0	0	0	0	0	0	-1.53	-1.34	0	0	0	0	0	0
4/28/2024 11:54	14802	TREI_T2	0	2	2	0	0.3	0.3	0.31	0.34	0	0	0	0	0	0
4/28/2024 11:54	63601	LETO_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/28/2024 11:54	63602	LETO_T1	8	7	-1	0.41	0.47	0.06	-0.27	-0.4	0	0	0	0	0	0
4/28/2024 11:54	67603	WARW_T1	1	2	1	0.4	0.3	-0.1	-0.06	-0.05	0	0	0	0	0	0
4/28/2024 11:54	53502	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
4/28/2024 11:54	67605	WARW_T1	16	21	5	0.58	0.73	0.15	0	0	0	0	0	0	0	0
4/28/2024 11:54	53501	EVIL_T2	7	12	5	0.74	0.54	-0.2	0	0	0	0	0	0	0	0
4/28/2024 11:54	15001	BLMO_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
4/28/2024 11:55	44502	HAMI_T2	4	3	-1	1.3	1.53	0.23	0	0	0	0	0	0	0	0
4/28/2024 11:55	12701	MACU_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
4/28/2024 11:55	44505	HAMI_T2	6	7	1	0.63	0.57	-0.06	0	0	0	0	0	0	0	0
4/28/2024 11:55	44504	HAMI_T2	0	0	0	0	0	0	-1.33	-1.34	0	0	0	0	0	0
4/28/2024 11:56	45702	LIND_T2	2	1	-1	0.15	0.1	-0.05	-0.59	-0.61	0	0	0	0	0	0
4/28/2024 11:56	53901	HALI_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/28/2024 11:56	53903	HALI_T2	7	24	17	0.73	0.74	0.01	-0.14	-0.15	0	0	0	0	0	0
4/28/2024 11:56	57403	SPAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/28/2024 11:56	57401	SPAN_T1	0	5	5	0	0.52	0.52	-1.18	-1.21	1	1	0	600	600	0
4/28/2024 11:56	53902	HALI_T2	2	7	5	3.15	1.49	-1.66	0	0	0	0	0	0	0	0
4/28/2024 11:57	46801	HEPB_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
4/28/2024 11:57	56501	ROCK_T2	1	12	11	0.1	0.37	0.27	-0.01	-0.01	0	0	0	0	0	0
4/28/2024 11:57	15103	UPHA_T2	2	2	0	0.75	0.9	0.15	0.35	0.38	0	0	0	0	0	0
4/28/2024 11:57	57401	SPAN_T1	0	5	5	0	0.52	0.52	-2.36	-2.42	2	2	0	1200	1200	0
4/28/2024 11:57	13704	SCHN_T2	0	1	1	0	0.1	0.1	-0.39	-0.39	0	0	0	0	0	0
4/28/2024 11:57	57403	SPAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/28/2024 11:57	46803	HEPB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/28/2024 11:58	52004	LING_T2	0	1	1	0	1.8	1.8	0.14	0.18	0	0	0	0	0	0
4/28/2024 11:58	14601	SWHI_T1	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
4/28/2024 11:58	52002	LING_T2	1	2	1	1.1	0.75	-0.35	0	0	0	0	0	0	0	0
4/28/2024 11:58	67203	TEHI_T1	0	0	0	0	0	0	0.76	0.79	0	0	0	0	0	0
4/28/2024 11:58	14602	SWHI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/28/2024 11:58	45902	AUBU_T1	3	5	2	1.4	1.18	-0.22	-0.45	-0.5	0	0	0	0	0	0
4/28/2024 11:58	14603	SWHI_T1	1	2	1	1	0.4	-0.6	0	0	0	0	0	0	0	0
4/28/2024 11:58	52006	LING_T2	3	3	0	0.67	0.57	-0.1	0	0	0	0	0	0	0	0
4/28/2024 11:58	67201	TEHI_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/28/2024 11:58	55002	NEWP_T1	6	12	6	0.55	0.94	0.39	-0.48	-0.44	0	0	0	0	0	0
4/28/2024 11:58	14802	TREI_T2	0	2	2	0	0.3	0.3	0.62	0.68	0	0	0	0	0	0
4/28/2024 11:58	55001	NEWP_T1	0	5	5	0	0.44	0.44	0	0	0	0	0	0	0	0
4/28/2024 11:59	45702	LIND_T2	2	1	-1	0.15	0.1	-0.05	-1.18	-1.22	0	0	0	0	0	0
4/28/2024 11:59	10801	CHHI_T1	4	6	2	0.6	0.62	0.02	-0.91	-0.81	1	1	0	900	900	0
4/28/2024 11:59	59102	WALK_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
4/28/2024 11:59	52002	LING_T2	1	2	1	1.1	0.75	-0.35	0	0	0	0	0	0	0	0
4/28/2024 11:59	52006	LING_T2	3	3	0	0.67	0.57	-0.1	0	0	0	0	0	0	0	0
4/28/2024 11:59	59101	WALK_T2	0	1	1	0	0	0	1.36	1.36	0	0	0	0	0	0
4/28/2024 11:59	52004	LING_T2	0	1	1	0	1.8	1.8	0.14	0.18	0	0	0	0	0	0
4/28/2024 12:00	20603	GRWO_T2	5	4	-1	0.42	0.65	0.23	0.42	0.43	0	0	0	0	0	0
4/28/2024 12:00	45902	AUBU_T1	3	5	2	1.43	1.2	-0.23	-0.45	-0.5	0	0	0	0	0	0
4/28/2024 12:01	20401	ASHF_T2	0	1	1	0	0.2	0.2	-0.46	-0.39	0	0	0	0	0	0
4/28/2024 12:01	58402	MORO_T1	1	2	1	0.2	0.5	0.3	-0.45	-0.47	2	2	0	1500	1500	0
4/28/2024 12:01	20403	ASHF_T2	32	31	-1	0.31	0.36	0.05	0	0	0	0	0	0	0	0
4/28/2024 12:01	20402	ASHF_T2	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/28/2024 12:02	15001	BLMO_T1	2	1	-1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
4/28/2024 12:02	40603	PIGR_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/28/2024 12:02	58402	MORO_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/28/2024 12:02	60605	NCOL_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/28/2024 12:02	40602	PIGR_T1	1	3	2	0.6	0.63	0.03	0	0	0	0	0	0	0	0
4/28/2024 12:02	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.22	1	1	0	600	600	0
4/28/2024 12:02	40601	PIGR_T1	9	17	8	0.41	0.38	-0.03	-0.17	-0.2	0	0	0	0	0	0
4/28/2024 12:03	64101	REFR_T1	1	4	3	0.8	0.58	-0.22	-0.72	-0.59	0	0	0	0	0	0
4/28/2024 12:03	65901	SAKR_T2	1	1	0	8	8	0	-1.14	-0.99	1	1	0	900	900	0
4/28/2024 12:04	47401	PENS_T1	53	57	4	0.35	0.42	0.07	0.75	0.74	0	0	0	0	0	0
4/28/2024 12:04	40601	PIGR_T1	9	17	8	0.41	0.38	-0.03	-0.17	-0.2	0	0	0	0	0	0
4/28/2024 12:04	47402	PENS_T1	3	3	0	0.47	0.63	0.16	0	0	0	0	0	0	0	0
4/28/2024 12:04	40602	PIGR_T1	1	3	2	0.6	0.63	0.03	0	0	0	0	0	0	0	0
4/28/2024 12:04	40603	PIGR_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/28/2024 12:04	47403	PENS_T1	11	30	19	0.46	0.4	-0.06	0	0	0	0	0	0	0	0
4/28/2024 12:05	55003	NEWP_T2	6	10	4	0.3	0.23	-0.07	-0.3	-0.32	0	0	0	0	0	0
4/28/2024 12:05	47403	PENS_T1	11	30	19	0.46	0.4	-0.06	0	0	0	0	0	0	0	0
4/28/2024 12:05	47402	PENS_T1	3	3	0	0.47	0.63	0.16	0	0	0	0	0	0	0	0
4/28/2024 12:05	64101	REFR_T1	1	4	3	0.8	0.58	-0.22	-0.72	-0.59	0	0	0	0	0	0
4/28/2024 12:05	55001	NEWP_T1	4	7	3	0.3	0.44	0.14	-0.21	-0.2	0	0	0	0	0	0
4/28/2024 12:05	47401	PENS_T1	53	57	4	0.35	0.42	0.07	0.75	0.74	0	0	0	0	0	0
4/28/2024 12:05	45902	AUBU_T1	3	5	2	1.43	1.2	-0.23	-0.45	-0.5	0	0	0	0	0	0
4/28/2024 12:05	55002	NEWP_T1	10	17	7	0.87	0.85	-0.02	0	0	0	0	0	0	0	0
4/28/2024 12:06	47401	PENS_T1	53	57	4	0.35	0.42	0.07	1.5	1.47	0	0	0	0	0	0
4/28/2024 12:06	47403	PENS_T1	11	30	19	0.46	0.4	-0.06	0	0	0	0	0	0	0	0
4/28/2024 12:06	42601	TUSC_T1	0	1	1	0	0	0	-0.55	-0.58	2	2	0	1800	1800	0
4/28/2024 12:06	47402	PENS_T1	3	3	0	0.47	0.63	0.16	0	0	0	0	0	0	0	0
4/28/2024 12:06	64101	REFR_T1	1	4	3	0.8	0.58	-0.22	-0.72	-0.59	0	0	0	0	0	0
4/28/2024 12:07	64101	REFR_T1	1	4	3	0.8	0.58	-0.22	-2.17	-1.77	0	0	0	0	0	0
4/28/2024 12:07	15103	UPHA_T2	2	3	1	0.8	0.7	-0.1	0.35	0.38	0	0	0	0	0	0
4/28/2024 12:08	67702	WERN_T2	1	1	0	0.4	0.5	0.1	-0.02	-0.02	0	0	0	0	0	0
4/28/2024 12:08	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
4/28/2024 12:08	67605	WARW_T1	20	25	5	0.7	0.73	0.03	-1.19	-1.16	0	0	0	0	0	0
4/28/2024 12:08	67603	WARW_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/28/2024 12:08	43201	MVIL_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
4/28/2024 12:08	43202	MVIL_T2	1	1	0	0.9	0.5	-0.4	-0.74	-0.76	0	0	0	0	0	0
4/28/2024 12:08	67401	WAKE_T2	2	3	1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
4/28/2024 12:08	67703	WERN_T2	1	1	0	0.2	0.5	0.3	-0.33	-0.33	1	1	0	900	900	0
4/28/2024 12:09	60903	DONG_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/28/2024 12:09	67501	WEWI_T1	3	4	1	0.5	0.75	0.25	0	0	0	0	0	0	0	0
4/28/2024 12:09	45902	AUBU_T1	3	5	2	1.43	1.2	-0.23	-0.5	-0.49	0	0	0	0	0	0
4/28/2024 12:09	60901	DONG_T2	5	7	2	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
4/28/2024 12:09	60902	DONG_T2	0	0	0	0	0	0	0.91	0.93	0	0	0	0	0	0
4/28/2024 12:09	67505	WEWI_T1	0	2	2	0	0.2	0.2	-0.17	-0.11	1	1	0	900	900	0
4/28/2024 12:10	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
4/28/2024 12:10	67703	WERN_T2	1	1	0	0.2	0.5	0.3	-0.33	-0.33	1	1	0	900	900	0
4/28/2024 12:10	67702	WERN_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/28/2024 12:11	20401	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/28/2024 12:11	20402	ASHF_T2	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
4/28/2024 12:11	45902	AUBU_T1	3	5	2	1.43	1.2	-0.23	-0.5	-0.49	0	0	0	0	0	0
4/28/2024 12:11	45901	AUBU_T1	0	0	0	0	0	0	0.89	0.9	0	0	0	0	0	0
4/28/2024 12:11	20403	ASHF_T2	32	31	-1	0.31	0.36	0.05	0.16	0.07	0	0	0	0	0	0
4/28/2024 12:14	64402	LAND_T2	5	4	-1	0.32	0.23	-0.09	-0.53	-0.56	1	1	0	600	600	0
4/28/2024 12:14	13503	MCMI_T2	5	178	173	0.22	0.31	0.09	-0.99	-0.97	0	0	0	0	0	0
4/28/2024 12:14	47001	HUGH_T2	0	0	0	0	0	0	-0.95	-0.9	0	0	0	0	0	0
4/28/2024 12:14	64404	LAND_T2	1	9	8	0.5	0.56	0.06	0	0	0	0	0	0	0	0
4/28/2024 12:14	45902	AUBU_T1	3	5	2	1.43	1.2	-0.23	-0.5	-0.49	0	0	0	0	0	0
4/28/2024 12:14	26402	INOR_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
4/28/2024 12:14	26401	INOR_T1	2	4	2	4.9	2.65	-2.25	0.29	0.3	0	0	0	0	0	0
4/28/2024 12:15	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.21	1	1	0	600	600	0
4/28/2024 12:15	58402	MORO_T1	2	5	3	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
4/28/2024 12:15	40101	HUNT_T2	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
4/28/2024 12:15	45902	AUBU_T1	5	4	-1	1.18	1.45	0.27	-0.5	-0.49	0	0	0	0	0	0
4/28/2024 12:15	17401	FOHI_T1	0	0	0	0	0	0	-2	-1.96	0	0	0	0	0	0
4/28/2024 12:16	13503	MCMI_T2	167	119	-48	0.31	0.3	-0.01	-1.98	-1.94	0	0	0	0	0	0
4/28/2024 12:16	67703	WERN_T2	1	1	0	0.4	0.5	0.1	-0.33	-0.33	1	1	0	900	900	0
4/28/2024 12:16	67702	WERN_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/28/2024 12:16	40101	HUNT_T2	0	0	0	0	0	0	-1.5	-1.46	0	0	0	0	0	0
4/28/2024 12:17	45702	LIND_T2	1	1	0	0.1	0.7	0.6	-0.61	-0.59	0	0	0	0	0	0
4/28/2024 12:17	47001	HUGH_T2	0	0	0	0	0	0	-0.95	-0.9	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/28/2024 12:18	56504	ROCK_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
4/28/2024 12:18	56503	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/28/2024 12:18	56501	ROCK_T2	12	16	4	0.37	0.43	0.06	-0.02	-0.02	0	0	0	0	0	0
4/28/2024 12:19	12002	HATF_T1	1	1	0	0.2	0.3	0.1	-0.29	-0.3	0	0	0	0	0	0
4/28/2024 12:19	12003	HATF_T1	2	2	0	0.55	0.85	0.3	0	0	0	0	0	0	0	0
4/28/2024 12:19	12004	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 12:19	12007	HATF_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/28/2024 12:19	12005	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/28/2024 12:19	59202	THOM_T1	634	815	181	0.46	0.58	0.12	0	0	0	0	0	0	0	0
4/28/2024 12:19	12006	HATF_T1	3	3	0	0.93	0.8	-0.13	0	0	0	0	0	0	0	0
4/28/2024 12:19	59201	THOM_T1	63	75	12	0.46	0.47	0.01	0	0	0	0	0	0	0	0
4/28/2024 12:19	27603	PIRI_T2	0	0	0	0	0	0	-1.53	-1.54	2	2	0	1800	1800	0
4/28/2024 12:20	52503	PROG_T2	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/28/2024 12:20	52501	PROG_T1	1	2	1	0.2	0.3	0.1	0.37	0.42	1	1	0	300	300	0
4/28/2024 12:20	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.21	1	1	0	600	600	0
4/28/2024 12:20	14802	TREI_T2	2	2	0	0.3	0.4	0.1	0.34	0.32	0	0	0	0	0	0
4/28/2024 12:20	52502	PROG_T2	6	5	-1	0.68	0.72	0.04	-0.68	-0.72	1	1	0	900	900	0
4/28/2024 12:20	58402	MORO_T1	2	5	3	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
4/28/2024 12:21	40603	PIGR_T1	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/28/2024 12:21	40601	PIGR_T1	12	19	7	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
4/28/2024 12:21	40602	PIGR_T1	3	3	0	0.53	0.83	0.3	-0.76	-0.79	0	0	0	0	0	0
4/28/2024 12:22	67501	WEWI_T1	4	4	0	0.5	0.75	0.25	-1.09	-1.12	1	1	0	600	600	0
4/28/2024 12:22	52501	PROG_T1	1	2	1	0.2	0.3	0.1	0.37	0.42	1	1	0	300	300	0
4/28/2024 12:22	59101	WALK_T2	0	1	1	0	0.8	0.8	1.36	1.07	0	0	0	0	0	0
4/28/2024 12:22	67505	WEWI_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/28/2024 12:22	59102	WALK_T2	3	3	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/28/2024 12:23	12005	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/28/2024 12:23	56503	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/28/2024 12:23	56504	ROCK_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
4/28/2024 12:23	66505	SMAN_T2	0	0	0	0	0	0	0.35	0.32	2	2	0	1100	1100	0
4/28/2024 12:23	12001	HATF_T1	0	0	0	0	0	0	1.26	1.32	0	0	0	0	0	0
4/28/2024 12:23	12006	HATF_T1	3	3	0	0.93	0.8	-0.13	0	0	0	0	0	0	0	0
4/28/2024 12:23	12003	HATF_T1	2	2	0	0.55	0.85	0.3	0	0	0	0	0	0	0	0
4/28/2024 12:23	67702	WERN_T2	0	1	1	0	0.6	0.6	-0.01	-0.01	0	0	0	0	0	0
4/28/2024 12:23	67703	WERN_T2	1	1	0	0.4	0.5	0.1	-0.33	-0.32	1	1	0	900	900	0
4/28/2024 12:23	12002	HATF_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/28/2024 12:23	66504	SMAN_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
4/28/2024 12:23	66502	SMAN_T2	2	1	-1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/28/2024 12:23	12007	HATF_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/28/2024 12:23	56501	ROCK_T2	12	16	4	0.37	0.43	0.06	-0.01	-0.01	0	0	0	0	0	0
4/28/2024 12:23	12004	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 12:23	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/28/2024 12:24	67605	WARW_T1	21	25	4	0.72	0.72	0	-1.16	-1.18	0	0	0	0	0	0
4/28/2024 12:24	24101	EHAZ_T1	18	14	-4	0.48	0.26	-0.22	0	0	0	0	0	0	0	0
4/28/2024 12:24	24103	EHAZ_T1	0	0	0	0	0	0	-1.64	-1.38	0	0	0	0	0	0
4/28/2024 12:24	67603	WARW_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
4/28/2024 12:24	24102	EHAZ_T1	0	5	5	0	0.6	0.6	0	0	0	0	0	0	0	0
4/28/2024 12:24	67703	WERN_T2	1	1	0	0.4	0.5	0.1	-0.33	-0.32	1	1	0	900	900	0
4/28/2024 12:24	24105	EHAZ_T1	4	4	0	6.45	6.35	-0.1	0	0	0	0	0	0	0	0
4/28/2024 12:24	67702	WERN_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/28/2024 12:25	67502	WEWI_T2	4	7	3	0.55	0.49	-0.06	-1.49	-1.49	1	1	0	900	900	0
4/28/2024 12:25	45902	AUBU_T1	5	4	-1	1.18	1.45	0.27	-0.49	-0.49	0	0	0	0	0	0
4/28/2024 12:25	67501	WEWI_T1	4	4	0	0.5	0.75	0.25	-1.12	-1.09	1	1	0	600	600	0
4/28/2024 12:25	67505	WEWI_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/28/2024 12:26	67702	WERN_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/28/2024 12:26	67703	WERN_T2	1	1	0	0.4	0.5	0.1	-0.33	-0.32	1	1	0	900	900	0
4/28/2024 12:26	45902	AUBU_T1	5	4	-1	1.18	1.45	0.27	-0.49	-0.49	0	0	0	0	0	0
4/28/2024 12:27	54504	ENOL_T2	0	1	1	0	0.5	0.5	-1.02	-1.02	1	1	0	600	600	0
4/28/2024 12:27	54502	ENOL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/28/2024 12:27	54503	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/28/2024 12:27	54505	ENOL_T2	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/28/2024 12:28	63404	HONY_T1	152	152	0	0.53	0.57	0.04	0	0	0	0	0	0	0	0
4/28/2024 12:28	51904	COPA_T1	8	6	-2	1.33	1.35	0.02	-0.38	-0.38	1	1	0	600	600	0
4/28/2024 12:28	54504	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/28/2024 12:28	54503	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/28/2024 12:28	51901	COPA_T1	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
4/28/2024 12:28	51902	COPA_T1	6	4	-2	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
4/28/2024 12:28	54505	ENOL_T2	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/28/2024 12:28	54506	ENOL_T2	0	0	0	0	0	0	0.07	0.07	1	1	0	600	600	0
4/28/2024 12:28	51906	COPA_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
4/28/2024 12:28	63401	HONY_T1	1	1	0	0.2	0.3	0.1	0.13	0.07	0	0	0	0	0	0
4/28/2024 12:28	54502	ENOL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/28/2024 12:29	63401	HONY_T1	1	1	0	0.2	0.3	0.1	0.13	0.07	0	0	0	0	0	0
4/28/2024 12:29	63404	HONY_T1	152	152	0	0.53	0.57	0.04	0	0	0	0	0	0	0	0
4/28/2024 12:30	45902	AUBU_T1	4	6	2	1.43	1.13	-0.3	-0.49	-0.49	0	0	0	0	0	0
4/28/2024 12:30	64201	KINZ_T1	10	3	-7	0.23	0.4	0.17	0	0	0	0	0	0	0	0
4/28/2024 12:30	64305	LINC_T1	1	1	0	0.3	0.2	-0.1	-0.66	-0.64	0	0	0	0	0	0
4/28/2024 12:30	64202	KINZ_T1	6	0	-6	0.12	0	-0.12	0.51	0.63	0	0	0	0	0	0
4/28/2024 12:30	64203	KINZ_T1	10	9	-1	0.53	0.44	-0.09	0.15	0.23	0	0	0	0	0	0
4/28/2024 12:30	64204	KINZ_T1	20	9	-11	0.4	0.58	0.18	0	0	0	0	0	0	0	0
4/28/2024 12:30	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/28/2024 12:31	63401	HONY_T1	1	1	0	0.3	0.1	-0.2	0.13	0.07	0	0	0	0	0	0
4/28/2024 12:31	63404	HONY_T1	151	143	-8	0.56	0.45	-0.11	0	0	0	0	0	0	0	0
4/28/2024 12:31	45902	AUBU_T1	4	6	2	1.43	1.13	-0.3	-0.49	-0.49	0	0	0	0	0	0
4/28/2024 12:31	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/28/2024 12:32	64202	KINZ_T1	6	0	-6	0.12	0	-0.12	0	0	0	0	0	0	0	0
4/28/2024 12:32	64204	KINZ_T1	20	9	-11	0.4	0.58	0.18	0	0	0	0	0	0	0	0
4/28/2024 12:32	64201	KINZ_T1	10	3	-7	0.23	0.4	0.17	0	0	0	0	0	0	0	0
4/28/2024 12:32	64203	KINZ_T1	10	9	-1	0.53	0.44	-0.09	0.15	0.23	0	0	0	0	0	0
4/28/2024 12:33	57403	SPAN_T1	4	6	2	0.5	0.53	0.03	0	0	0	0	0	0	0	0
4/28/2024 12:33	57401	SPAN_T1	7	6	-1	0.5	0.78	0.28	-1.22	-1.21	1	1	0	600	600	0
4/28/2024 12:35	66504	SMAN_T2	1	1	0	0.7	0.5	-0.2	-0.5	-0.48	0	0	0	0	0	0
4/28/2024 12:35	58303	NOTT_T2	2	2	0	0.7	0.55	-0.15	0.19	0.04	1	1	0	900	900	0
4/28/2024 12:35	54601	SUMM_T2	9	9	0	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
4/28/2024 12:35	13701	SOHN_T2	0	0	0	0	0	0	-0.01	0.01	1	1	0	600	600	0
4/28/2024 12:35	66502	SMAN_T2	1	2	1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
4/28/2024 12:35	54602	SUMM_T2	0	2	2	0	0.15	0.15	-2.49	-2.51	1	1	0	600	600	0
4/28/2024 12:35	66501	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/28/2024 12:36	63404	HONY_T1	151	143	-8	0.56	0.45	-0.11	0	0	0	0	0	0	0	0
4/28/2024 12:36	63401	HONY_T1	1	1	0	0.3	0.1	-0.2	0.13	0.07	0	0	0	0	0	0
4/28/2024 12:36	51302	WIND_T2	3	2	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/28/2024 12:36	51304	WIND_T2	4	4	0	0.7	0.38	-0.32	0	0	0	0	0	0	0	0
4/28/2024 12:36	51306	WIND_T2	13	6	-7	0.37	0.52	0.15	0	0	0	0	0	0	0	0
4/28/2024 12:38	40302	TAMA_T3	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
4/28/2024 12:38	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 12:40	64101	REFR_T1	4	3	-1	0.58	0.63	0.05	-0.74	-0.74	0	0	0	0	0	0
4/28/2024 13:00	45902	AUBU_T1	6	5	-1	1.13	1.16	0.03	-0.52	-0.48	0	0	0	0	0	0
4/28/2024 13:00	45901	AUBU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/28/2024 13:02	46004	BERW_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/28/2024 13:02	46002	BERW_T2	0	0	0	0	0	0	-1.48	-1.47	1	1	0	900	900	0
4/28/2024 13:03	60101	COCA_T1	5	6	1	0.4	0.6	0.2	0.23	0.24	0	0	0	0	0	0
4/28/2024 13:04	16302	ALPA_T2	2	0	-2	0.1	0	-0.1	0.51	0.49	0	0	0	0	0	0
4/28/2024 13:05	41902	REED_T1	0	1	1	0	0.2	0.2	0.87	0.88	0	0	0	0	0	0
4/28/2024 13:05	45901	AUBU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/28/2024 13:05	64101	REFR_T1	3	2	-1	0.57	0.75	0.18	-0.74	-0.74	0	0	0	0	0	0
4/28/2024 13:05	45902	AUBU_T1	6	5	-1	1.13	1.16	0.03	-0.52	-0.48	0	0	0	0	0	0
4/28/2024 13:06	52503	PROG_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/28/2024 13:06	52502	PROG_T2	5	5	0	0.68	0.64	-0.04	-0.68	-0.7	1	1	0	900	900	0
4/28/2024 13:07	42802	SELI_T1	1	0	-1	0.1	0	-0.1	0.01	0.03	0	0	0	0	0	0
4/28/2024 13:07	55101	WERT_T1	0	0	0	0	0	0	-1.83	-1.79	2	2	0	1800	1800	0
4/28/2024 13:08	56501	ROCK_T2	9	12	3	0.52	0.45	-0.07	-0.01	-0.01	0	0	0	0	0	0
4/28/2024 13:08	56503	ROCK_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
4/28/2024 13:08	56504	ROCK_T2	2	3	1	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
4/28/2024 13:08	15001	BLMO_T1	1	2	1	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
4/28/2024 13:08	57006	WHHI_T2	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
4/28/2024 13:08	57004	WHHI_T2	0	0	0	0	0	0	-0.68	-0.65	0	0	0	0	0	0
4/28/2024 13:08	57003	WHHI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/28/2024 13:10	67804	WLAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/28/2024 13:10	15001	BLMO_T1	1	2	1	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
4/28/2024 13:10	24101	EHAZ_T1	6	9	3	0.23	0.33	0.1	0	0	0	0	0	0	0	0
4/28/2024 13:10	67603	WARW_T1	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
4/28/2024 13:10	24105	EHAZ_T1	4	4	0	6.68	6.55	-0.13	0	0	0	0	0	0	0	0
4/28/2024 13:10	67605	WARW_T1	20	20	0	0.7	0.73	0.03	-1.17	-1.18	0	0	0	0	0	0
4/28/2024 13:10	24102	EHAZ_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/28/2024 13:10	24104	EHAZ_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	1200	1200	0
4/28/2024 13:10	67805	WLAN_T1	0	0	0	0	0	0	-1.54	-1.43	0	0	0	0	0	0
4/28/2024 13:12	61701	ELIZ_T1	2	2	0	3.75	3.55	-0.2	0	0	0	0	0	0	0	0
4/28/2024 13:12	61703	ELIZ_T1	0	0	0	0	0	0	-2.45	-2.45	2	2	0	2100	2100	0
4/28/2024 13:13	54502	ENOL_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
4/28/2024 13:13	54504	ENOL_T2	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
4/28/2024 13:13	54503	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/28/2024 13:13	54505	ENOL_T2	3	3	0	0.6	0.53	-0.07	-1.35	-1.32	1	1	0	600	600	0
4/28/2024 13:13	26703	HEML_T1	0	0	0	0	0	0	-0.94	-0.93	1	1	0	600	600	0
4/28/2024 13:14	63305	GREE_T1	0	0	0	0	0	0	-1.27	-1.24	0	0	0	0	0	0
4/28/2024 13:14	63306	GREE_T1	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
4/28/2024 13:16	66701	STRA_T1	1	1	0	1.9	1.8	-0.1	-0.29	-0.32	1	1	0	600	600	0
4/28/2024 13:18	12602	MACA_T1	0	0	0	0	0	0	-0.28	-0.23	0	0	0	0	0	0
4/28/2024 13:18	12601	MACA_T1	2	2	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
4/28/2024 13:18	12604	MACA_T1	2	1	-1	0.55	1.3	0.75	0	0	0	0	0	0	0	0
4/28/2024 13:18	12603	MACA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/28/2024 13:18	12605	MACA_T1	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
4/28/2024 13:19	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.13	1	1	0	600	600	0
4/28/2024 13:20	57401	SPAN_T1	3	4	1	1.13	1	-0.13	0	0	0	0	0	0	0	0
4/28/2024 13:20	66701	STRA_T1	1	1	0	1.9	1.8	-0.1	-0.29	-0.32	1	1	0	600	600	0
4/28/2024 13:20	57403	SPAN_T1	4	4	0	0.53	0.53	0	0.04	0.01	0	0	0	0	0	0
4/28/2024 13:23	57403	SPAN_T1	4	4	0	0.53	0.53	0	0.01	0.02	0	0	0	0	0	0
4/28/2024 13:23	57401	SPAN_T1	3	4	1	1.13	1	-0.13	0	0	0	0	0	0	0	0
4/28/2024 13:23	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 13:25	57403	SPAN_T1	4	4	0	0.53	0.53	0	0.01	0.02	0	0	0	0	0	0
4/28/2024 13:25	57401	SPAN_T1	3	4	1	1.13	1	-0.13	0	0	0	0	0	0	0	0
4/28/2024 13:29	54601	SUMM_T2	12	12	0	0.33	0.3	-0.03	-1.87	-1.83	2	2	0	2100	2100	0
4/28/2024 13:29	45801	HEGI_T1	0	0	0	0	0	0	-0.42	-0.49	1	1	0	900	900	0
4/28/2024 13:32	22601	KIMB_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/28/2024 13:32	22602	KIMB_T1	1	2	1	0.1	0.15	0.05	0.41	0.39	0	0	0	0	0	0
4/28/2024 13:32	46801	HEPB_T2	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
4/28/2024 13:32	66701	STRA_T1	1	1	0	1.8	1.8	0	-0.32	-0.34	1	1	0	600	600	0
4/28/2024 13:35	64101	REFR_T1	2	2	0	0.65	0.65	0	-0.7	-0.71	0	0	0	0	0	0
4/28/2024 13:37	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 13:37	41001	LAUR_T2	4	5	1	0.78	0.76	-0.02	0	0	0	0	0	0	0	0
4/28/2024 13:37	56801	BENV_T1	31	32	1	0.83	0.78	-0.05	-0.26	-0.26	0	0	0	0	0	0
4/28/2024 13:37	56803	BENV_T1	8	8	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
4/28/2024 13:37	41002	LAUR_T2	1	1	0	2	2	0	-0.28	-0.27	0	0	0	0	0	0
4/28/2024 13:38	64101	REFR_T1	2	2	0	0.65	0.65	0	-2.13	-2.14	0	0	0	0	0	0
4/28/2024 13:38	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 13:38	56801	BENV_T1	31	32	1	0.83	0.78	-0.05	-0.13	-0.14	0	0	0	0	0	0
4/28/2024 13:38	56803	BENV_T1	8	8	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
4/28/2024 13:39	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 13:39	56802	BENV_T2	15	17	2	0.51	0.62	0.11	-1.24	-1.22	0	0	0	0	0	0
4/28/2024 13:39	56801	BENV_T1	31	32	1	0.83	0.78	-0.05	-0.39	-0.42	0	0	0	0	0	0
4/28/2024 13:39	56803	BENV_T1	8	8	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
4/28/2024 13:40	56801	BENV_T1	31	32	1	0.83	0.78	-0.05	-0.26	-0.28	0	0	0	0	0	0
4/28/2024 13:40	56802	BENV_T2	15	17	2	0.51	0.62	0.11	-1.24	-1.22	0	0	0	0	0	0
4/28/2024 13:40	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 13:40	56803	BENV_T1	8	8	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
4/28/2024 13:41	56801	BENV_T1	31	32	1	0.83	0.78	-0.05	-0.13	-0.14	0	0	0	0	0	0
4/28/2024 13:41	67603	WARW_T1	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
4/28/2024 13:41	26001	WDAM_T1	2	2	0	0.6	0.35	-0.25	-0.41	-0.41	0	0	0	0	0	0
4/28/2024 13:41	26002	WDAM_T1	5	5	0	0.46	0.58	0.12	0	0	0	0	0	0	0	0
4/28/2024 13:41	67605	WARW_T1	18	17	-1	0.7	0.81	0.11	-1.17	-1.14	0	0	0	0	0	0
4/28/2024 13:41	56802	BENV_T2	15	17	2	0.51	0.62	0.11	-0.62	-0.61	0	0	0	0	0	0
4/28/2024 13:41	15001	BLMO_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/28/2024 13:41	56803	BENV_T1	8	8	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
4/28/2024 13:42	60101	COCA_T1	6	7	1	0.6	0.67	0.07	0.21	0.19	0	0	0	0	0	0
4/28/2024 13:42	56801	BENV_T1	31	32	1	0.83	0.78	-0.05	-0.13	-0.14	0	0	0	0	0	0
4/28/2024 13:42	56803	BENV_T1	8	8	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
4/28/2024 13:43	56802	BENV_T2	15	17	2	0.51	0.62	0.11	-0.62	-0.61	0	0	0	0	0	0
4/28/2024 13:44	46002	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/28/2024 13:44	46004	BERW_T2	1	0	-1	0.2	0	-0.2	-0.8	-0.78	0	0	0	0	0	0
4/28/2024 13:46	59301	MCAL_T1	75	64	-11	0.57	0.38	-0.19	0	0	0	0	0	0	0	0
4/28/2024 13:46	41801	GOCI_T2	73	97	24	0.31	0.32	0.01	0	0	0	0	0	0	0	0
4/28/2024 13:46	59302	MCAL_T1	1	2	1	0.8	0.45	-0.35	-0.47	-0.44	1	1	0	600	600	0
4/28/2024 13:47	59302	MCAL_T1	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
4/28/2024 13:47	59301	MCAL_T1	75	64	-11	0.57	0.38	-0.19	-1.1	-1.11	0	0	0	0	0	0
4/28/2024 13:48	59302	MCAL_T1	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
4/28/2024 13:48	59301	MCAL_T1	75	64	-11	0.57	0.38	-0.19	-1.1	-1.11	0	0	0	0	0	0
4/28/2024 13:49	45902	AUBU_T1	4	8	4	1.43	0.96	-0.47	-0.54	-0.61	0	0	0	0	0	0
4/28/2024 13:49	45901	AUBU_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/28/2024 13:51	53501	EVIL_T2	17	29	12	0.39	0.51	0.12	-0.67	-0.69	0	0	0	0	0	0
4/28/2024 13:52	53501	EVIL_T2	17	29	12	0.39	0.51	0.12	-0.67	-0.69	0	0	0	0	0	0
4/28/2024 13:52	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 13:53	45902	AUBU_T1	4	8	4	1.43	0.96	-0.47	-0.61	-0.54	0	0	0	0	0	0
4/28/2024 13:53	55105	WERT_T1	0	2	2	0	0.25	0.25	-0.62	-0.62	1	1	0	900	900	0
4/28/2024 13:53	53501	EVIL_T2	17	29	12	0.39	0.51	0.12	-2.08	-2.02	0	0	0	0	0	0
4/28/2024 13:53	45901	AUBU_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/28/2024 13:54	53501	EVIL_T2	17	29	12	0.39	0.51	0.12	-0.69	-0.67	0	0	0	0	0	0
4/28/2024 13:54	53502	EVIL_T2	0	0	0	0	0	0	0.77	0.82	0	0	0	0	0	0
4/28/2024 13:55	60801	BUCK_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
4/28/2024 13:55	41602	CLEV_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/28/2024 13:55	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/28/2024 13:55	42902	MIDD_T2	13	13	0	0.35	0.52	0.17	-0.73	-0.71	0	0	0	0	0	0
4/28/2024 13:55	42903	MIDD_T2	4	4	0	0.95	1.2	0.25	0	0	0	0	0	0	0	0
4/28/2024 13:55	42901	MIDD_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/28/2024 13:56	42902	MIDD_T2	13	13	0	0.35	0.52	0.17	-0.73	-0.71	0	0	0	0	0	0
4/28/2024 13:56	42903	MIDD_T2	4	4	0	0.95	1.2	0.25	0	0	0	0	0	0	0	0
4/28/2024 13:56	42901	MIDD_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/28/2024 13:56	53501	EVIL_T2	17	29	12	0.39	0.51	0.12	-0.69	-0.67	0	0	0	0	0	0
4/28/2024 13:57	67605	WARW_T1	17	17	0	0.8	0.69	-0.11	-1.14	-1.15	0	0	0	0	0	0
4/28/2024 13:57	42903	MIDD_T2	4	4	0	0.95	1.2	0.25	0.13	0.09	0	0	0	0	0	0
4/28/2024 13:57	67702	WERN_T2	1	1	0	0.3	0.5	0.2	-0.01	-0.01	0	0	0	0	0	0
4/28/2024 13:57	60801	BUCK_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
4/28/2024 13:57	42902	MIDD_T2	13	13	0	0.35	0.52	0.17	-1.46	-1.42	0	0	0	0	0	0
4/28/2024 13:57	67603	WARW_T1	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
4/28/2024 13:57	67703	WERN_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/28/2024 13:57	42901	MIDD_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/28/2024 13:58	42902	MIDD_T2	13	13	0	0.35	0.52	0.17	-0.73	-0.71	0	0	0	0	0	0
4/28/2024 13:58	42901	MIDD_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/28/2024 13:58	42903	MIDD_T2	4	4	0	0.95	1.2	0.25	0	0	0	0	0	0	0	0
4/28/2024 13:59	45901	AUBU_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/28/2024 13:59	42903	MIDD_T2	4	4	0	0.95	1.2	0.25	0	0	0	0	0	0	0	0
4/28/2024 13:59	42901	MIDD_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/28/2024 13:59	45902	AUBU_T1	4	8	4	1.43	0.96	-0.47	-0.61	-0.54	0	0	0	0	0	0
4/28/2024 13:59	42902	MIDD_T2	13	13	0	0.35	0.52	0.17	-0.73	-0.71	0	0	0	0	0	0
4/28/2024 14:02	54503	ENOL_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/28/2024 14:02	54505	ENOL_T2	1	4	3	0.5	0.73	0.23	0	0	0	0	0	0	0	0
4/28/2024 14:02	59302	MCAL_T1	1	2	1	0.7	0.45	-0.25	-0.44	-0.39	1	1	0	600	600	0
4/28/2024 14:02	59301	MCAL_T1	53	67	14	0.31	0.38	0.07	0	0	0	0	0	0	0	0
4/28/2024 14:02	54501	ENOL_T2	0	6	6	0	0.2	0.2	0.14	0.12	0	0	0	0	0	0
4/28/2024 14:02	54502	ENOL_T2	0	7	7	0	0.31	0.31	0	0	0	0	0	0	0	0
4/28/2024 14:02	54504	ENOL_T2	1	2	1	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/28/2024 14:04	45902	AUBU_T1	7	8	1	1.03	0.93	-0.1	-0.61	-0.54	0	0	0	0	0	0
4/28/2024 14:04	45901	AUBU_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/28/2024 14:08	64101	REFR_T1	2	2	0	0.55	0.5	-0.05	-0.76	-0.67	0	0	0	0	0	0
4/28/2024 14:08	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 14:09	64101	REFR_T1	2	2	0	0.55	0.5	-0.05	-0.76	-0.67	0	0	0	0	0	0
4/28/2024 14:10	64101	REFR_T1	2	2	0	0.55	0.5	-0.05	-0.76	-0.67	0	0	0	0	0	0
4/28/2024 14:14	54501	ENOL_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
4/28/2024 14:14	54504	ENOL_T2	1	2	1	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/28/2024 14:14	54502	ENOL_T2	0	7	7	0	0.31	0.31	0	0	0	0	0	0	0	0
4/28/2024 14:14	45901	AUBU_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
4/28/2024 14:14	54503	ENOL_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/28/2024 14:14	45902	AUBU_T1	7	8	1	1.03	0.93	-0.1	-0.54	-0.52	0	0	0	0	0	0
4/28/2024 14:14	54505	ENOL_T2	1	4	3	0.5	0.73	0.23	-1.31	-1.31	1	1	0	600	600	0
4/28/2024 14:17	41902	REED_T1	2	0	-2	0.2	0	-0.2	0.93	0.98	0	0	0	0	0	0
4/28/2024 14:17	23202	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/28/2024 14:17	23203	HIRU_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
4/28/2024 14:17	23201	HIRU_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
4/28/2024 14:18	45702	LIND_T2	1	0	-1	0.1	0	-0.1	-0.53	-0.55	0	0	0	0	0	0
4/28/2024 14:18	58401	MORO_T1	4	2	-2	0.28	0.15	-0.13	0	0	0	0	0	0	0	0
4/28/2024 14:18	45701	LIND_T2	0	0	0	0	0	0	-1.15	-1.13	0	0	0	0	0	0
4/28/2024 14:18	58402	MORO_T1	0	0	0	0	0	0	0.09	0.08	1	1	0	900	900	0
4/28/2024 14:19	41902	REED_T1	2	0	-2	0.2	0	-0.2	0.93	0.98	0	0	0	0	0	0
4/28/2024 14:19	44502	HAMI_T2	1	2	1	3.3	1.6	-1.7	0	0	0	0	0	0	0	0
4/28/2024 14:19	44503	HAMI_T2	0	0	0	0	0	0	-1.24	-1.23	1	1	0	1200	1200	0
4/28/2024 14:19	44505	HAMI_T2	6	7	1	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
4/28/2024 14:20	45902	AUBU_T1	8	3	-5	0.93	1.7	0.77	-0.54	-0.52	0	0	0	0	0	0
4/28/2024 14:20	45901	AUBU_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/28/2024 14:21	51305	WIND_T1	2	1	-1	0.75	1.1	0.35	0.18	0.18	0	0	0	0	0	0
4/28/2024 14:21	51303	WIND_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/28/2024 14:21	51301	WIND_T1	10	5	-5	0.52	0.5	-0.02	0	0	0	0	0	0	0	0
4/28/2024 14:22	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 14:25	64101	REFR_T1	1	2	1	0.9	0.35	-0.55	-0.67	-0.67	0	0	0	0	0	0
4/28/2024 14:25	42903	MIDD_T2	4	3	-1	1.2	1.4	0.2	0	0	0	0	0	0	0	0
4/28/2024 14:25	42902	MIDD_T2	12	21	9	0.55	0.54	-0.01	-0.7	-0.71	0	0	0	0	0	0
4/28/2024 14:25	42901	MIDD_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/28/2024 14:26	42903	MIDD_T2	4	3	-1	1.2	1.4	0.2	0	0	0	0	0	0	0	0
4/28/2024 14:26	42901	MIDD_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/28/2024 14:26	60803	BUCK_T1	0	0	0	0	0	0	-0.49	-1.12	1	1	0	600	600	0
4/28/2024 14:26	42902	MIDD_T2	12	21	9	0.55	0.54	-0.01	-0.7	-0.71	0	0	0	0	0	0
4/28/2024 14:28	60801	BUCK_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
4/28/2024 14:30	45902	AUBU_T1	3	3	0	1.67	1.7	0.03	-0.52	-0.47	0	0	0	0	0	0
4/28/2024 14:31	26402	INOR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/28/2024 14:31	26401	INOR_T1	4	3	-1	2.88	3.93	1.05	0.32	0.29	0	0	0	0	0	0
4/28/2024 14:31	40101	HUNT_T2	0	3	3	0	0.2	0.2	-0.75	-0.76	0	0	0	0	0	0
4/28/2024 14:32	40101	HUNT_T2	0	3	3	0	0.2	0.2	-0.75	-0.76	0	0	0	0	0	0
4/28/2024 14:35	45902	AUBU_T1	3	3	0	1.67	1.7	0.03	-0.52	-0.47	0	0	0	0	0	0
4/28/2024 14:35	64101	REFR_T1	2	2	0	0.35	0.2	-0.15	-0.67	-0.67	0	0	0	0	0	0
4/28/2024 14:35	46801	HEPB_T2	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
4/28/2024 14:36	53501	EVIL_T2	19	19	0	0.47	0.41	-0.06	0	0	0	0	0	0	0	0
4/28/2024 14:36	53502	EVIL_T2	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0	0
4/28/2024 14:37	59102	WALK_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/28/2024 14:37	59101	WALK_T2	0	0	0	0	0	0	1.11	1.06	0	0	0	0	0	0
4/28/2024 14:38	45402	WBLO_T2	2	2	0	0.35	0.6	0.25	-1.73	-1.76	1	1	0	900	900	0
4/28/2024 14:39	45402	WBLO_T2	2	2	0	0.35	0.6	0.25	-1.76	-1.78	1	1	0	900	900	0
4/28/2024 14:45	54502	ENOL_T2	4	2	-2	0.2	0.25	0.05	0	0	0	0	0	0	0	0
4/28/2024 14:45	54504	ENOL_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/28/2024 14:45	54501	ENOL_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/28/2024 14:45	54505	ENOL_T2	3	3	0	0.63	0.63	0	-1.32	-1.3	1	1	0	600	600	0
4/28/2024 14:45	54503	ENOL_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/28/2024 14:46	45902	AUBU_T1	3	3	0	1.7	1.47	-0.23	-0.47	-0.47	0	0	0	0	0	0
4/28/2024 14:51	45902	AUBU_T1	3	3	0	1.7	1.47	-0.23	-0.47	-0.47	0	0	0	0	0	0
4/28/2024 14:55	45402	WBLO_T2	2	1	-1	0.5	1	0.5	-1.78	-1.76	1	1	0	900	900	0
4/28/2024 14:57	45902	AUBU_T1	3	3	0	1.7	1.47	-0.23	-0.47	-0.47	0	0	0	0	0	0
4/28/2024 15:01	44202	POIN_T2	1	1	0	0.7	0.7	0	-1	-1	1	1	0	1200	1200	0
4/28/2024 15:01	45902	AUBU_T1	3	3	0	1.4	1.4	0	-0.47	-0.47	0	0	0	0	0	0
4/28/2024 15:02	44201	POIN_T1	10	35	25	0.17	0.17	0	-1.94	-2.02	1	1	0	1200	1200	0
4/28/2024 15:03	44201	POIN_T1	10	35	25	0.17	0.17	0	-1.94	-2.02	1	1	0	1200	1200	0
4/28/2024 15:04	65205	PRIN_T1	3	4	1	0.73	0.78	0.05	0	0	0	0	0	0	0	0
4/28/2024 15:05	45701	LIND_T2	0	0	0	0	0	0	-1.14	-1.13	0	0	0	0	0	0
4/28/2024 15:05	64101	REFR_T1	1	1	0	0.2	0.5	0.3	-0.64	-0.59	0	0	0	0	0	0
4/28/2024 15:06	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 15:06	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/28/2024 15:06	66502	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/28/2024 15:06	66504	SMAN_T2	0	0	0	0	0	0	-0.78	-0.69	0	0	0	0	0	0
4/28/2024 15:07	53502	EVIL_T2	0	0	0	0	0	0	0.8	0.86	0	0	0	0	0	0
4/28/2024 15:07	53501	EVIL_T2	17	9	-8	0.44	0.31	-0.13	0	0	0	0	0	0	0	0
4/28/2024 15:07	64101	REFR_T1	1	1	0	0.2	0.5	0.3	-0.64	-0.59	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/28/2024 15:08	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 15:10	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 15:12	45902	AUBU_T1	3	3	0	1.4	1.4	0	-0.47	-0.44	0	0	0	0	0	0
4/28/2024 15:12	10801	CHHI_T1	4	2	-2	0.63	0.75	0.12	-0.74	-0.72	1	1	0	900	900	0
4/28/2024 15:17	45902	AUBU_T1	3	3	0	1.4	0.93	-0.47	-0.47	-0.44	0	0	0	0	0	0
4/28/2024 15:25	67703	WERN_T2	0	1	1	0	0.2	0.2	-0.88	-0.88	1	1	0	900	900	0
4/28/2024 15:28	45902	AUBU_T1	3	3	0	1.4	0.93	-0.47	-0.44	-0.45	0	0	0	0	0	0
4/28/2024 15:29	23202	HIRU_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
4/28/2024 15:33	45902	AUBU_T1	3	3	0	0.9	0.83	-0.07	-0.44	-0.45	0	0	0	0	0	0
4/28/2024 15:35	58401	MORO_T1	0	0	0	0	0	0	-1.05	-1.02	1	1	0	600	600	0
4/28/2024 15:36	58401	MORO_T1	0	0	0	0	0	0	-1.05	-1.02	1	1	0	600	600	0
4/28/2024 15:39	64101	REFR_T1	1	1	0	0.1	0.7	0.6	-0.63	-0.58	0	0	0	0	0	0
4/28/2024 15:41	53902	HALI_T2	4	4	0	1.88	1.8	-0.08	-0.22	-0.15	0	0	0	0	0	0
4/28/2024 15:41	53903	HALI_T2	7	8	1	0.71	0.74	0.03	0	0	0	0	0	0	0	0
4/28/2024 15:41	53901	HALI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/28/2024 15:42	64101	REFR_T1	1	1	0	0.1	0.7	0.6	-0.63	-0.58	0	0	0	0	0	0
4/28/2024 15:43	45902	AUBU_T1	3	3	0	0.9	0.83	-0.07	-0.45	-0.42	0	0	0	0	0	0
4/28/2024 15:49	45902	AUBU_T1	3	3	0	0.8	0.7	-0.1	-0.45	-0.42	0	0	0	0	0	0
4/28/2024 15:52	42203	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 15:52	42201	SHEN_T2	1	0	-1	0.5	0	-0.5	0.4	0.41	0	0	0	0	0	0
4/28/2024 15:52	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 15:53	67703	WERN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/28/2024 15:53	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/28/2024 15:59	45902	AUBU_T1	3	3	0	0.8	0.7	-0.1	-0.42	-0.43	0	0	0	0	0	0
4/28/2024 16:01	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.68	0	0	0	0	0	0
4/28/2024 16:04	45902	AUBU_T1	3	3	0	0.67	0.7	0.03	-0.42	-0.43	0	0	0	0	0	0
4/28/2024 16:09	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 16:10	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 16:15	45902	AUBU_T1	3	3	0	0.7	0.37	-0.33	-0.43	-0.45	0	0	0	0	0	0
4/28/2024 16:20	45902	AUBU_T1	3	3	0	0.7	0.37	-0.33	-0.43	-0.45	0	0	0	0	0	0
4/28/2024 16:21	67201	TEHI_T1	1	0	-1	0.2	0	-0.2	-0.67	0.31	1	0	-1	900	0	-900
4/28/2024 16:23	65802	RTWN_T2	1	0	-1	0.3	0	-0.3	-0.07	-0.08	0	0	0	0	0	0
4/28/2024 16:23	65803	RTWN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/28/2024 16:24	49804	UNIV_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/28/2024 16:24	49803	UNIV_T1	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
4/28/2024 16:24	51109	CARL_T1	0	0	0	0	0	0	-0.96	-0.95	1	1	0	1200	1200	0
4/28/2024 16:24	51102	CARL_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/28/2024 16:25	45902	AUBU_T1	3	3	0	0.7	0.37	-0.33	-0.45	-0.42	0	0	0	0	0	0
4/28/2024 16:26	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 16:27	51102	CARL_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/28/2024 16:27	51107	CARL_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
4/28/2024 16:31	45902	AUBU_T1	3	1	-2	0.37	0.5	0.13	-0.45	-0.42	0	0	0	0	0	0
4/28/2024 16:32	40101	HUNT_T2	0	0	0	0	0	0	-1.34	-1.33	0	0	0	0	0	0
4/28/2024 16:38	65802	RTWN_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
4/28/2024 16:41	45902	AUBU_T1	3	1	-2	0.37	0.5	0.13	-0.42	-0.45	0	0	0	0	0	0
4/28/2024 16:41	62104	ELAN_T1	0	0	0	0	0	0	-0.3	-0.26	2	2	0	1500	1500	0
4/28/2024 16:45	60802	BUCK_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
4/28/2024 16:46	45902	AUBU_T1	1	1	0	0.5	0.4	-0.1	-0.42	-0.45	0	0	0	0	0	0
4/28/2024 16:47	65001	NEFF_T2	0	0	0	0	0	0	-0.95	-0.98	1	1	0	1200	1200	0
4/28/2024 16:53	51305	WIND_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/28/2024 16:53	51303	WIND_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/28/2024 16:58	64101	REFR_T1	1	0	-1	0.1	0	-0.1	-0.69	-0.7	0	0	0	0	0	0
4/28/2024 16:58	40101	HUNT_T2	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
4/28/2024 16:59	53903	HALI_T2	2	7	5	1.1	0.71	-0.39	-0.09	-0.09	0	0	0	0	0	0
4/28/2024 16:59	53901	HALI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/28/2024 16:59	53902	HALI_T2	2	2	0	2.7	3.3	0.6	0	0	0	0	0	0	0	0
4/28/2024 17:17	63804	HEMP_T1	1	1	0	5.7	5.9	0.2	0	0	0	0	0	0	0	0
4/28/2024 17:17	63801	HEMP_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
4/28/2024 17:17	63802	HEMP_T1	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
4/28/2024 17:23	60605	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 17:25	51303	WIND_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/28/2024 17:25	51305	WIND_T1	1	0	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/28/2024 17:32	59002	MIFF_T1	5	5	0	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
4/28/2024 17:32	59003	MIFF_T1	1	2	1	1	0.9	-0.1	-0.63	-0.61	0	0	0	0	0	0
4/28/2024 17:41	46206	DANV_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
4/28/2024 17:41	46203	DANV_T2	79	87	8	0.27	0.27	0	-4.74	-4.73	0	0	0	0	0	0
4/28/2024 17:45	46203	DANV_T2	31	93	62	0.15	0.3	0.15	-2.37	-2.37	0	0	0	0	0	0
4/28/2024 17:45	46206	DANV_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
4/28/2024 17:47	28703	HAML_T2	3	3	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/28/2024 17:47	28704	HAML_T2	1	1	0	0.9	0.6	-0.3	-0.01	-0.01	0	0	0	0	0	0
4/28/2024 17:49	46801	HEPB_T2	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
4/28/2024 17:51	45702	LIND_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
4/28/2024 17:56	25603	ARRO_T1	4	3	-1	0.15	0.13	-0.02	-0.16	-0.16	0	0	0	0	0	0
4/28/2024 18:03	51904	COPA_T1	3	5	2	0.27	0.44	0.17	-0.96	-0.94	2	2	0	1200	1200	0
4/28/2024 18:10	45501	DERR_T2	0	0	0	0	0	0	-0.36	-0.44	2	2	0	1800	1800	0
4/28/2024 18:11	67703	WERN_T2	0	0	0	0	0	0	-0.81	-0.78	1	1	0	900	900	0
4/28/2024 18:11	64101	REFR_T1	0	0	0	0	0	0	-0.63	-0.6	0	0	0	0	0	0
4/28/2024 18:13	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/28/2024 18:14	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/28/2024 18:23	11101	EGYP_T1	0	1	1	0	0	0	0	0	1	1	0	1200	1200	0
4/28/2024 18:23	11102	EGYP_T1	1	0	-1	3.4	0	-3.4	0	0	0	0	0	0	0	0
4/28/2024 18:23	11104	EGYP_T1	5	7	2	0.28	0.18	-0.1	0	0	0	0	0	0	0	0
4/28/2024 18:29	16301	ALPA_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
4/28/2024 18:37	51107	CARL_T1	0	0	0	0	0	0	-0.19	-0.24	0	0	0	0	0	0
4/28/2024 18:38	54206	PENN_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
4/28/2024 18:48	12006	HATF_T1	0	0	0	0	0	0	0.61	0.66	0	0	0	0	0	0
4/28/2024 19:13	62607	ENGL_T1	2	2	0	1.5	1.6	0.1	-0.98	-0.96	1	1	0	300	300	0
4/28/2024 19:34	54505	ENOL_T2	0	1	1	0	0.2	0.2	-1.2	-1.2	1	1	0	600	600	0
4/28/2024 20:03	53901	HALI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/28/2024 20:03	53903	HALI_T2	2	2	0	1.4	1.4	0	-0.13	-0.09	0	0	0	0	0	0
4/28/2024 20:03	53902	HALI_T2	1	1	0	5.1	5.5	0.4	0	0	0	0	0	0	0	0
4/28/2024 20:10	51109	CARL_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	1200	1200	0
4/28/2024 20:53	45902	AUBU_T1	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
4/28/2024 20:55	16302	ALPA_T2	0	0	0	0	0	0	-0.72	-0.69	0	0	0	0	0	0
4/28/2024 21:11	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 21:20	16302	ALPA_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
4/28/2024 21:25	26703	HEML_T1	0	0	0	0	0	0	-0.96	-0.95	1	1	0	600	600	0
4/28/2024 21:31	23202	HIRU_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
4/28/2024 21:34	28703	HAML_T2	3	3	0	0.73	1	0.27	0	0	0	0	0	0	0	0
4/28/2024 21:34	28704	HAML_T2	1	1	0	0.8	0.8	0	-0.01	-0.01	0	0	0	0	0	0
4/28/2024 21:35	13503	MCMI_T2	12	6	-6	0.13	0.1	-0.03	-0.98	-0.98	0	0	0	0	0	0
4/28/2024 21:36	13503	MCMI_T2	12	6	-6	0.13	0.1	-0.03	-0.98	-0.98	0	0	0	0	0	0
4/28/2024 21:41	25603	ARRO_T1	15	1	-14	0.13	0.2	0.07	-0.2	-0.17	0	0	0	0	0	0
4/28/2024 21:42	23203	HIRU_T2	0	0	0	0	0	0	0.02	-0.06	0	0	0	0	0	0
4/28/2024 21:44	13503	MCMI_T2	12	6	-6	0.13	0.1	-0.03	-0.98	-1	0	0	0	0	0	0
4/28/2024 21:44	61304	EARL_T1	0	0	0	0	0	0	-0.97	-0.92	1	1	0	600	600	0
4/28/2024 21:45	54505	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/28/2024 21:45	54502	ENOL_T2	1	1	0	0.5	1.3	0.8	0	0	0	0	0	0	0	0
4/28/2024 21:45	54503	ENOL_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/28/2024 21:46	12701	MACU_T1	0	0	0	0	0	0	-1.16	-1.2	1	1	0	1200	1200	0
4/28/2024 21:46	13503	MCMI_T2	5	5	0	0.1	0.1	0	-0.98	-1	0	0	0	0	0	0
4/28/2024 21:47	45702	LIND_T2	1	1	0	0.8	1	0.2	-0.58	-0.58	0	0	0	0	0	0
4/28/2024 21:47	44502	HAMI_T2	1	1	0	3.2	3.7	0.5	0	0	0	0	0	0	0	0
4/28/2024 21:47	44504	HAMI_T2	0	0	0	0	0	0	-1.33	-1.34	0	0	0	0	0	0
4/28/2024 21:48	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 21:48	26002	WDAM_T1	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/28/2024 21:48	26001	WDAM_T1	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
4/28/2024 21:48	40302	TAMA_T3	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
4/28/2024 21:48	12701	MACU_T1	0	0	0	0	0	0	-1.16	-1.2	1	1	0	1200	1200	0
4/28/2024 21:50	27502	WEIS_T2	0	0	0	0	0	0	-1.66	-1.7	0	0	0	0	0	0
4/28/2024 21:50	45902	AUBU_T1	0	2	2	0	0.1	0.1	-1.79	-1.95	0	0	0	0	0	0
4/28/2024 21:50	52004	LING_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
4/28/2024 21:51	55002	NEWP_T1	0	3	3	0	0.23	0.23	-0.25	-0.27	0	0	0	0	0	0
4/28/2024 21:52	27603	PIRI_T2	0	0	0	0	0	0	-1.37	-1.35	2	2	0	1800	1800	0
4/28/2024 21:52	14802	TREI_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
4/28/2024 21:53	20603	GRWO_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
4/28/2024 21:53	55001	NEWP_T1	0	0	0	0	0	0	-0.93	-0.92	1	1	0	600	600	0
4/28/2024 21:53	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/28/2024 21:53	55002	NEWP_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
4/28/2024 21:53	26401	INOR_T1	1	1	0	9	9.4	0.4	0.21	0.26	0	0	0	0	0	0
4/28/2024 21:53	20601	GRWO_T2	0	10	10	0	0.16	0.16	0	0	0	0	0	0	0	0
4/28/2024 21:54	64204	KINZ_T1	1	1	0	1.1	1.6	0.5	0	0	0	0	0	0	0	0
4/28/2024 21:54	67703	WERN_T2	0	0	0	0	0	0	-0.87	-0.9	1	1	0	900	900	0
4/28/2024 21:54	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 21:54	64201	KINZ_T1	1	7	6	1.2	0.37	-0.83	0	0	0	0	0	0	0	0
4/28/2024 21:54	64202	KINZ_T1	3	3	0	0.27	1.03	0.76	0	0	0	0	0	0	0	0
4/28/2024 21:54	45901	AUBU_T1	0	0	0	0	0	0	0.98	0.98	0	0	0	0	0	0
4/28/2024 21:54	45902	AUBU_T1	0	2	2	0	0.1	0.1	-0.65	-0.63	0	0	0	0	0	0
4/28/2024 21:54	61303	EARL_T1	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
4/28/2024 21:54	64203	KINZ_T1	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
4/28/2024 21:54	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 21:55	14802	TREI_T2	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
4/28/2024 21:55	67703	WERN_T2	0	0	0	0	0	0	-0.87	-0.9	1	1	0	900	900	0
4/28/2024 21:55	67501	WEWI_T1	0	0	0	0	0	0	-2.09	-2.15	1	1	0	600	600	0
4/28/2024 21:55	10801	CHHI_T1	0	99	99	0	0.26	0.26	-1.94	-1.94	3	3	0	2100	2100	0
4/28/2024 21:55	57401	SPAN_T1	0	0	0	0	0	0	-2.7	-3.08	2	2	0	1200	1200	0
4/28/2024 21:55	65802	RTWN_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
4/28/2024 21:55	14601	SWHI_T1	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
4/28/2024 21:55	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 21:56	13905	SEID_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/28/2024 21:56	47401	PENS_T1	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
4/28/2024 21:56	65801	RTWN_T1	0	0	0	0	0	0	-1	-0.97	2	2	0	1200	1200	0
4/28/2024 21:56	67605	WARW_T1	0	0	0	0	0	0	-0.53	-0.58	0	0	0	0	0	0
4/28/2024 21:56	62607	ENGL_T1	2	2	0	1.6	1.7	0.1	-1.05	-1.04	1	1	0	300	300	0
4/28/2024 21:56	56802	BENV_T2	1	1	0	0.5	0.5	0	-1.48	-1.47	0	0	0	0	0	0
4/28/2024 21:56	20403	ASHF_T2	8	30	22	0.19	0.34	0.15	0.15	0.12	0	0	0	0	0	0
4/28/2024 21:56	10801	CHHI_T1	0	99	99	0	0.26	0.26	-1.94	-1.94	3	3	0	2100	2100	0
4/28/2024 21:56	42601	TUSC_T1	10	10	0	1.17	0.5	-0.67	-0.71	-0.72	2	2	0	1800	1800	0
4/28/2024 21:56	67703	WERN_T2	0	0	0	0	0	0	-0.87	-0.9	1	1	0	900	900	0
4/28/2024 21:56	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 21:56	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/28/2024 21:56	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/28/2024 21:56	60101	COCA_T1	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/28/2024 21:56	17401	FOHI_T1	0	0	0	0	0	0	-1.96	-1.99	0	0	0	0	0	0
4/28/2024 21:57	60605	NCOL_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/28/2024 21:57	12006	HATF_T1	0	0	0	0	0	0	0.55	0.64	0	0	0	0	0	0
4/28/2024 21:57	52004	LING_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
4/28/2024 21:57	40602	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/28/2024 21:57	12005	HATF_T1	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
4/28/2024 21:57	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/28/2024 21:57	22602	KIMB_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
4/28/2024 21:57	65001	NEFF_T2	0	27	27	0	0.11	0.11	-1.14	-1.23	1	1	0	1200	1200	0
4/28/2024 21:57	40601	PIGR_T1	0	6	6	0	0.1	0.1	-0.15	-0.21	0	0	0	0	0	0
4/28/2024 21:57	14802	TREI_T2	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
4/28/2024 21:57	44201	POIN_T1	55	249	194	0.22	0.23	0.01	-1.98	-1.96	1	1	0	1200	1200	0
4/28/2024 21:57	65003	NEFF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/28/2024 21:57	20403	ASHF_T2	8	30	22	0.19	0.34	0.15	0.15	0.12	0	0	0	0	0	0
4/28/2024 21:58	57401	SPAN_T1	0	0	0	0	0	0	-1.35	-1.54	1	1	0	600	600	0
4/28/2024 21:58	60803	BUCK_T1	0	0	0	0	0	0	-1.16	-1.17	1	1	0	600	600	0
4/28/2024 21:58	20403	ASHF_T2	8	30	22	0.19	0.34	0.15	0.3	0.24	0	0	0	0	0	0
4/28/2024 21:58	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/28/2024 21:58	14802	TREI_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
4/28/2024 21:58	51402	LYKE_T1	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
4/28/2024 21:58	66504	SMAN_T2	0	0	0	0	0	0	-3.39	-3.29	2	2	0	2400	2400	0
4/28/2024 21:58	56802	BENV_T2	1	1	0	0.5	0	0	-1.48	-1.47	0	0	0	0	0	0
4/28/2024 21:59	61303	EARL_T1	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
4/28/2024 21:59	63802	HEMP_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
4/28/2024 21:59	46004	BERW_T2	0	0	0	0	0	0	-0.74	-0.79	0	0	0	0	0	0
4/28/2024 21:59	63305	GREE_T1	2	13	11	0.2	0.2	0	-2.37	-2.37	1	1	0	900	900	0
4/28/2024 21:59	63301	GREE_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/28/2024 21:59	40601	PIGR_T1	0	6	6	0	0.1	0.1	-0.15	-0.21	0	0	0	0	0	0
4/28/2024 21:59	42903	MIDD_T2	2	2	0	0.1	0.35	0.25	0	0	0	0	0	0	0	0
4/28/2024 21:59	67603	WARW_T1	0	0	0	0	0	0	-0.04	-0.01	0	0	0	0	0	0
4/28/2024 21:59	66505	SMAN_T2	0	0	0	0	0	0	0.5	0.44	1	1	0	900	900	0
4/28/2024 21:59	63804	HEMP_T1	1	5	4	5.5	1.28	-4.22	0	0	0	0	0	0	0	0
4/28/2024 21:59	47001	HUGH_T2	0	0	0	0	0	0	-0.93	-0.98	0	0	0	0	0	0
4/28/2024 21:59	64101	REFR_T1	0	0	0	0	0	0	-0.76	-0.83	0	0	0	0	0	0
4/28/2024 21:59	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 21:59	40101	HUNT_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
4/28/2024 21:59	63803	HEMP_T1	0	28	28	0	0.14	0.14	0	0	0	0	0	0	0	0
4/28/2024 21:59	47002	HUGH_T2	0	9	9	0	0.24	0.24	0	0	0	0	0	0	0	0
4/28/2024 21:59	42902	MIDD_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
4/28/2024 21:59	60605	NCOL_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/28/2024 21:59	40602	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/28/2024 21:59	63801	HEMP_T1	0	20	20	0	0.14	0.14	0	0	0	0	0	0	0	0
4/28/2024 21:59	65503	MOJO_T2	0	0	0	0	0	0	-1.16	-0.21	1	0	-1	900	0	-900
4/28/2024 22:00	54502	ENOL_T2	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
4/28/2024 22:00	12002	HATF_T1	0	0	0	0	0	0	-0.26	-0.23	0	0	0	0	0	0
4/28/2024 22:00	60803	BUCK_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/28/2024 22:00	41902	REED_T1	0	0	0	0	0	0	0.07	0.04	1	1	0	900	900	0
4/28/2024 22:00	53501	EVIL_T2	2	3	1	1.05	0.8	-0.25	0	0	0	0	0	0	0	0
4/28/2024 22:00	60802	BUCK_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
4/28/2024 22:00	54501	ENOL_T2	0	0	0	0	0	0	-0.47	-0.47	1	1	0	600	600	0
4/28/2024 22:00	56801	BENV_T1	9	11	2	0.5	0.47	-0.03	-0.77	-0.8	1	1	0	600	600	0
4/28/2024 22:00	64402	LAND_T2	0	0	0	0	0	0	-0.52	-0.5	1	1	0	600	600	0
4/28/2024 22:00	59202	THOM_T1	28	1	-27	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
4/28/2024 22:00	45702	LIND_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
4/28/2024 22:00	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 22:00	42902	MIDD_T2	0	0	0	0	0	0	-1.44	-1.46	0	0	0	0	0	0
4/28/2024 22:00	45701	LIND_T2	0	0	0	0	0	0	-1.11	-1.12	0	0	0	0	0	0
4/28/2024 22:00	67605	WARW_T1	0	0	0	0	0	0	-0.53	-0.58	0	0	0	0	0	0
4/28/2024 22:00	53502	EVIL_T2	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
4/28/2024 22:00	58402	MORO_T1	0	0	0	0	0	0	-0.72	-0.73	2	2	0	1500	1500	0
4/28/2024 22:00	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 22:00	56802	BENV_T2	1	1	0	0.5	0.1	-0.4	-1.48	-1.47	0	0	0	0	0	0
4/28/2024 22:00	62104	ELAN_T1	0	0	0	0	0	0	-0.5	-0.13	2	1	-1	1500	1200	-300
4/28/2024 22:00	59201	THOM_T1	11	0	-11	0.17	0	-0.17	0	0	0	0	0	0	0	0
4/28/2024 22:00	54505	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/28/2024 22:00	12005	HATF_T1	1	4	3	0.1	0.28	0.18	0	0	0	0	0	0	0	0
4/28/2024 22:00	60101	COCA_T1	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
4/28/2024 22:00	60801	BUCK_T1	0	7	7	0	0.11	0.11	-0.83	-0.83	1	1	0	600	600	0
4/28/2024 22:00	42903	MIDD_T2	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
4/28/2024 22:01	46505	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 22:01	46504	LOHA_T1	2	70	68	1.4	0.54	-0.86	0	0	0	0	0	0	0	0
4/28/2024 22:01	63401	HONY_T1	0	0	0	0	0	0	0.08	0.15	0	0	0	0	0	0
4/28/2024 22:01	64201	KINZ_T1	2	9	7	0.85	0.36	-0.49	0	0	0	0	0	0	0	0
4/28/2024 22:01	58401	MORO_T1	0	0	0	0	0	0	-1.1	-1.1	1	1	0	600	600	0
4/28/2024 22:01	63801	HEMP_T1	6	20	14	0.12	0.14	0.02	0	0	0	0	0	0	0	0
4/28/2024 22:01	64204	KINZ_T1	1	4	3	1.5	0.53	-0.97	0	0	0	0	0	0	0	0
4/28/2024 22:01	63404	HONY_T1	26	145	119	0.16	0.34	0.18	0	0	0	0	0	0	0	0
4/28/2024 22:01	41001	LAUR_T2	6	13	7	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/28/2024 22:01	52502	PROG_T2	0	0	0	0	0	0	-0.52	-0.54	1	1	0	900	900	0
4/28/2024 22:01	63602	LETO_T1	0	0	0	0	0	0	-0.24	-0.12	0	0	0	0	0	0
4/28/2024 22:01	67502	WEWI_T2	0	0	0	0	0	0	-1.61	-1.57	1	1	0	900	900	0
4/28/2024 22:01	63802	HEMP_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
4/28/2024 22:01	64202	KINZ_T1	3	7	4	0.67	0.5	-0.17	0	0	0	0	0	0	0	0
4/28/2024 22:01	64101	REFR_T1	0	0	0	0	0	0	-0.76	-0.83	0	0	0	0	0	0
4/28/2024 22:01	63804	HEMP_T1	5	5	0	1.2	1.28	0.08	0	0	0	0	0	0	0	0
4/28/2024 22:01	13704	SCHN_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
4/28/2024 22:01	64203	KINZ_T1	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
4/28/2024 22:01	53501	EVIL_T2	2	3	1	1.05	0.8	-0.25	-1.15	-1.17	0	0	0	0	0	0
4/28/2024 22:01	46506	LOHA_T1	1	1	0	0.1	0.8	0.7	-0.4	-0.41	0	0	0	0	0	0
4/28/2024 22:01	67203	TEHI_T1	0	0	0	0	0	0	0.74	0.74	1	0	-1	900	0	-900
4/28/2024 22:01	65901	SAKR_T2	1	1	0	8.7	9.1	0.4	-1.2	-1.2	1	1	0	900	900	0
4/28/2024 22:01	41002	LAUR_T2	9	12	3	0.43	0.36	-0.07	-0.29	-0.29	0	0	0	0	0	0
4/28/2024 22:01	52503	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 22:01	63803	HEMP_T1	4	28	24	0.13	0.14	0.01	0	0	0	0	0	0	0	0
4/28/2024 22:01	56802	BENV_T2	1	1	0	0.5	0.1	-0.4	-1.48	-1.47	0	0	0	0	0	0
4/28/2024 22:02	55003	NEWP_T2	0	0	0	0	0	0	-0.99	-1.01	1	1	0	600	600	0
4/28/2024 22:02	47001	HUGH_T2	0	0	0	0	0	0	-0.93	-0.98	0	0	0	0	0	0
4/28/2024 22:02	53502	EVIL_T2	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
4/28/2024 22:02	45702	LIND_T2	1	1	0	0.8	1	0.2	-0.58	-0.59	0	0	0	0	0	0
4/28/2024 22:02	15103	UPHA_T2	0	0	0	0	0	0	0.51	0.46	0	0	0	0	0	0
4/28/2024 22:02	55002	NEWP_T1	3	0	-3	0.23	0	-0.23	-0.27	-0.3	0	0	0	0	0	0
4/28/2024 22:02	44202	POIN_T2	0	0	0	0	0	0	-0.82	-0.76	1	1	0	1200	1200	0
4/28/2024 22:02	64204	KINZ_T1	1	4	3	1.5	0.53	-0.97	0	0	0	0	0	0	0	0
4/28/2024 22:02	60803	BUCK_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
4/28/2024 22:02	42903	MIDD_T2	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
4/28/2024 22:02	47002	HUGH_T2	0	9	9	0	0.24	0.24	0	0	0	0	0	0	0	0
4/28/2024 22:02	64201	KINZ_T1	2	9	7	0.85	0.36	-0.49	0	0	0	0	0	0	0	0
4/28/2024 22:02	42902	MIDD_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
4/28/2024 22:02	53501	EVIL_T2	2	3	1	1.05	0.8	-0.25	-0.57	-0.58	0	0	0	0	0	0
4/28/2024 22:02	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 22:02	60801	BUCK_T1	0	7	7	0	0.11	0.11	-0.83	-0.83	1	1	0	600	600	0
4/28/2024 22:02	64202	KINZ_T1	3	7	4	0.67	0.5	-0.17	0.53	0.55	0	0	0	0	0	0
4/28/2024 22:02	59301	MCAL_T1	4	0	0	0.73	0.63	-0.1	-3.6	-3.63	2	2	0	1200	1200	0
4/28/2024 22:02	47401	PENS_T1	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
4/28/2024 22:02	59302	MCAL_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
4/28/2024 22:02	56801	BENV_T1	9	11	2	0.5	0.47	-0.03	-0.77	-0.8	1	1	0	600	600	0
4/28/2024 22:02	46004	BERW_T2	0	0	0	0	0	0	-0.74	-0.79	0	0	0	0	0	0
4/28/2024 22:03	40602	PIGR_T1	0	0	0	0	0	0	-0.7	-0.71	1	1	0	600	600	0
4/28/2024 22:03	58401	MORO_T1	0	0	0	0	0	0	-1.1	-1.1	1	1	0	600	600	0
4/28/2024 22:03	56801	BENV_T1	9	11	2	0.5	0.47	-0.03	-0.77	-0.8	1	1	0	600	600	0
4/28/2024 22:03	40601	PIGR_T1	0	14	14	0	0.16	0.16	0	0	0	0	0	0	0	0
4/28/2024 22:03	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/28/2024 22:03	57403	SPAN_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
4/28/2024 22:03	65205	PRIN_T1	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
4/28/2024 22:03	64101	REFR_T1	0	0	0	0	0	0	-1.52	-1.67	0	0	0	0	0	0
4/28/2024 22:03	54601	SUMM_T2	0	2	2	0	0.15	0.15	-1.85	-1.87	2	2	0	2100	2100	0
4/28/2024 22:03	12602	MACA_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
4/28/2024 22:03	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
4/28/2024 22:03	47401	PENS_T1	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
4/28/2024 22:03	52501	PROG_T1	0	0	0	0	0	0	-0.45	-0.48	0	0	0	0	0	0
4/28/2024 22:03	59101	WALK_T2	0	0	0	0	0	0	-0.55	-0.63	0	0	0	0	0	0
4/28/2024 22:04	63801	HEMP_T1	6	20	14	0.12	0.14	0.02	0	0	0	0	0	0	0	0
4/28/2024 22:04	63804	HEMP_T1	5	5	0	1.2	1.28	0.08	-0.78	-0.78	0	0	0	0	0	0
4/28/2024 22:04	53901	HALI_T2	1	1	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
4/28/2024 22:04	61302	EARL_T1	0	0	0	0	0	0	0.05	0.02	1	1	0	1200	1200	0
4/28/2024 22:04	45702	LIND_T2	1	1	0	0.8	1	0.2	-0.58	-0.59	0	0	0	0	0	0
4/28/2024 22:04	46506	LOHA_T1	1	1	0	0.1	0.8	0.7	-0.4	-0.41	0	0	0	0	0	0
4/28/2024 22:04	57401	SPAN_T1	0	0	0	0	0	0	-1.35	-1.54	1	1	0	600	600	0
4/28/2024 22:04	56802	BENV_T2	1	1	0	0.5	0.1	-0.4	-2.96	-2.94	0	0	0	0	0	0
4/28/2024 22:04	63803	HEMP_T1	4	28	24	0.13	0.14	0.01	0	0	0	0	0	0	0	0
4/28/2024 22:04	46505	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 22:04	53501	EVIL_T2	2	3	1	1.05	0.8	-0.25	-0.57	-0.58	0	0	0	0	0	0
4/28/2024 22:04	53903	HALI_T2	2	2	0	1	1.6	0.6	-0.17	-0.17	0	0	0	0	0	0
4/28/2024 22:04	53902	HALI_T2	1	1	0	5.5	5.9	0.4	0	0	0	0	0	0	0	0
4/28/2024 22:04	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 22:04	46504	LOHA_T1	2	70	68	1.4	0.54	-0.86	0	0	0	0	0	0	0	0
4/28/2024 22:05	55002	NEWP_T1	3	0	-3	0.23	0	-0.23	-0.27	-0.3	0	0	0	0	0	0
4/28/2024 22:05	45402	WBLO_T2	1	1	0	1.4	0.8	-0.6	-1.74	-1.81	1	1	0	900	900	0
4/28/2024 22:05	63802	HEMP_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
4/28/2024 22:05	53501	EVIL_T2	2	3	1	1.05	0.8	-0.25	-0.57	-0.58	0	0	0	0	0	0
4/28/2024 22:05	56501	ROCK_T2	2	5	3	0.5	0.58	0.08	-0.01	-0.01	0	0	0	0	0	0
4/28/2024 22:05	67501	WEWI_T1	0	0	0	0	0	0	-2.09	-2.15	1	1	0	600	600	0
4/28/2024 22:05	63804	HEMP_T1	5	5	0	1.2	1.28	0.08	0	0	0	0	0	0	0	0
4/28/2024 22:05	59301	MCAL_T1	4	4	0	0.73	0.63	-0.1	0	0	0	0	0	0	0	0
4/28/2024 22:05	42903	MIDD_T2	2	1	-1	0.35	0.1	-0.25	-0.31	-0.33	0	0	0	0	0	0
4/28/2024 22:05	59302	MCAL_T1	1	1	0	0.9	0.7	-0.2	-0.42	-0.43	1	1	0	600	600	0
4/28/2024 22:05	56801	BENV_T1	9	11	2	0.5	0.47	-0.03	-0.77	-0.8	1	1	0	600	600	0
4/28/2024 22:05	63801	HEMP_T1	6	20	14	0.12	0.14	0.02	0	0	0	0	0	0	0	0
4/28/2024 22:05	57403	SPAN_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
4/28/2024 22:05	45702	LIND_T2	1	1	0	0.8	1	0.2	-0.58	-0.59	0	0	0	0	0	0
4/28/2024 22:05	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 22:05	63803	HEMP_T1	4	28	24	0.13	0.14	0.01	0	0	0	0	0	0	0	0
4/28/2024 22:06	59003	MIFF_T1	1	1	0	1	0.8	-0.2	-0.68	-0.69	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/28/2024 22:06	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/28/2024 22:06	55002	NEWP_T1	3	0	-3	0.23	0	-0.23	-0.27	-0.3	0	0	0	0	0	0
4/28/2024 22:06	46801	HEPB_T2	10	27	17	0.29	0.25	-0.04	0.59	0.59	0	0	0	0	0	0
4/28/2024 22:06	46803	HEPB_T2	3	10	7	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
4/28/2024 22:06	45501	DERR_T2	1	1	0	0.1	0.7	0.6	-0.4	-0.42	2	2	0	1800	1800	0
4/28/2024 22:06	54502	ENOL_T2	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
4/28/2024 22:06	59002	MIFF_T1	5	1	-4	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/28/2024 22:06	54505	ENOL_T2	0	1	1	0	0.3	0.3	-1.24	-1.24	1	1	0	600	600	0
4/28/2024 22:06	64101	REFR_T1	0	0	0	0	0	0	-0.76	-0.83	0	0	0	0	0	0
4/28/2024 22:06	61703	ELIZ_T1	0	0	0	0	0	0	-2.35	-2.39	2	2	0	2100	2100	0
4/28/2024 22:06	56801	BENV_T1	9	11	2	0.5	0.47	-0.03	-0.77	-0.8	1	1	0	600	600	0
4/28/2024 22:06	61701	ELIZ_T1	1	1	0	4	4.5	0.5	0	0	0	0	0	0	0	0
4/28/2024 22:06	52502	PROG_T2	0	0	0	0	0	0	-0.52	-0.54	1	1	0	900	900	0
4/28/2024 22:06	45402	WBLO_T2	1	1	0	1.4	0.8	-0.6	-1.74	-1.81	1	1	0	900	900	0
4/28/2024 22:06	52503	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 22:06	66701	STRA_T1	0	0	0	0	0	0	-0.22	-0.24	1	1	0	600	600	0
4/28/2024 22:07	58402	MORO_T1	0	0	0	0	0	0	-0.72	-0.73	2	2	0	1500	1500	0
4/28/2024 22:07	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
4/28/2024 22:07	53501	EVIL_T2	2	3	1	1.05	0.8	-0.25	-0.57	-0.58	0	0	0	0	0	0
4/28/2024 22:07	43202	MVIL_T2	2	2	0	0.4	0.2	-0.2	-0.78	-0.8	0	0	0	0	0	0
4/28/2024 22:07	61803	EELI_T2	0	0	0	0	0	0	0.11	0.13	1	1	0	600	600	0
4/28/2024 22:07	64101	REFR_T1	0	0	0	0	0	0	-0.76	-0.83	0	0	0	0	0	0
4/28/2024 22:07	51305	WIND_T1	0	0	0	0	0	0	-0.47	-0.45	0	0	0	0	0	0
4/28/2024 22:07	46203	DANV_T2	184	263	79	0.76	0.85	0.09	-2.42	-2.47	0	0	0	0	0	0
4/28/2024 22:08	57403	SPAN_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
4/28/2024 22:08	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 22:08	54505	ENOL_T2	0	1	1	0	0.3	0.3	-1.24	-1.27	1	1	0	600	600	0
4/28/2024 22:08	56801	BENV_T1	9	11	2	0.5	0.47	-0.03	-0.8	-0.8	1	1	0	600	600	0
4/28/2024 22:08	67201	TEHI_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
4/28/2024 22:08	40101	HUNT_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
4/28/2024 22:08	42902	MIDD_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
4/28/2024 22:08	54502	ENOL_T2	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
4/28/2024 22:08	58401	MORO_T1	0	0	0	0	0	0	-2.19	-2.21	2	2	0	1200	1200	0
4/28/2024 22:08	42903	MIDD_T2	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
4/28/2024 22:09	46203	DANV_T2	184	263	79	0.76	0.85	0.09	-2.47	-2.51	0	0	0	0	0	0
4/28/2024 22:09	42902	MIDD_T2	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
4/28/2024 22:09	45402	WBLO_T2	1	1	0	1.4	0.8	-0.6	-1.81	-1.83	1	1	0	900	900	0
4/28/2024 22:09	59101	WALK_T2	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
4/28/2024 22:09	42903	MIDD_T2	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
4/28/2024 22:09	64101	REFR_T1	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
4/28/2024 22:10	54505	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/28/2024 22:10	41902	REED_T1	0	0	0	0	0	0	0.04	-0.14	1	1	0	900	900	0
4/28/2024 22:10	46506	LOHA_T1	1	1	0	0.1	0.8	0.7	-0.41	-0.42	0	0	0	0	0	0
4/28/2024 22:10	54504	ENOL_T2	0	0	0	0	0	0	-0.9	-0.9	1	1	0	600	600	0
4/28/2024 22:10	52501	PROG_T1	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
4/28/2024 22:10	58401	MORO_T1	0	0	0	0	0	0	-1.1	-1.11	1	1	0	600	600	0
4/28/2024 22:10	53902	HALI_T2	1	1	0	5.5	5.9	0.4	-0.91	-0.93	0	0	0	0	0	0
4/28/2024 22:10	53901	HALI_T2	1	1	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
4/28/2024 22:10	44301	BEAV_T2	0	0	0	0	0	0	-0.48	-0.48	1	1	0	600	600	0
4/28/2024 22:10	46203	DANV_T2	184	263	79	0.76	0.85	0.09	-2.47	-2.51	0	0	0	0	0	0
4/28/2024 22:10	53903	HALI_T2	2	2	0	1	1.6	0.6	0	0	0	0	0	0	0	0
4/28/2024 22:10	40101	HUNT_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
4/28/2024 22:10	46505	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/28/2024 22:10	46504	LOHA_T1	2	70	68	1.4	0.54	-0.86	0	0	0	0	0	0	0	0
4/28/2024 22:10	54502	ENOL_T2	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
4/28/2024 22:10	47401	PENS_T1	0	0	0	0	0	0	0.82	0.78	0	0	0	0	0	0
4/28/2024 22:10	42802	SELI_T1	1	1	0	0.8	0.2	-0.6	-0.08	-0.07	0	0	0	0	0	0
4/28/2024 22:11	53902	HALI_T2	1	1	0	5.5	5.9	0.4	0	0	0	0	0	0	0	0
4/28/2024 22:11	53901	HALI_T2	1	1	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
4/28/2024 22:11	67805	WLAN_T1	0	0	0	0	0	0	-1.47	-1.52	0	0	0	0	0	0
4/28/2024 22:11	56801	BENV_T1	9	11	2	0.5	0.47	-0.03	-1.6	-1.6	2	2	0	1200	1200	0
4/28/2024 22:11	53903	HALI_T2	2	2	0	1	1.6	0.6	-0.17	-0.17	0	0	0	0	0	0
4/28/2024 22:11	41902	REED_T1	0	0	0	0	0	0	0.04	-0.14	1	1	0	900	900	0
4/28/2024 22:12	53502	EVIL_T2	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
4/28/2024 22:12	53501	EVIL_T2	2	3	1	1.05	0.8	-0.25	0	0	0	0	0	0	0	0
4/28/2024 22:12	51107	CARL_T1	0	1	1	0	0	0	-0.22	-0.25	0	0	0	0	0	0
4/28/2024 22:12	42903	MIDD_T2	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
4/28/2024 22:12	42902	MIDD_T2	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
4/28/2024 22:12	51102	CARL_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
4/28/2024 22:13	54206	PENN_T2	0	0	0	0	0	0	-0.28	0	0	0	0	0	0	0
4/28/2024 22:13	44201	POIN_T1	249	55	-194	0.23	0.18	-0.05	-1.96	-1.9	1	1	0	1200	1200	0
4/28/2024 22:13	54204	PENN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/28/2024 22:13	56801	BENV_T1	9	11	2	0.5	0.47	-0.03	-0.8	-0.8	1	1	0	600	600	0
4/28/2024 22:14	56801	BENV_T1	9	11	2	0.5	0.47	-0.03	-0.8	-0.8	1	1	0	600	600	0
4/28/2024 22:14	40101	HUNT_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
4/28/2024 22:14	65802	RTWN_T2	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
4/28/2024 22:52	53902	HALI_T2	1	1	0	5.4	6.4	1	0	0	0	0	0	0	0	0
4/28/2024 22:52	53903	HALI_T2	2	2	0	1.6	1.8	0.2	-0.18	-0.21	0	0	0	0	0	0
4/28/2024 22:52	53901	HALI_T2	1	2	1	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
4/28/2024 23:23	16301	ALPA_T1	123	182	59	0.17	0.18	0.01	-0.35	-0.36	0	0	0	0	0	0
4/29/2024 1:59	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.1	0	0	0	0	0	0
4/29/2024 7:04	67703	WERN_T2	0	0	0	0	0	0	-0.37	-0.33	1	1	0	900	900	0
4/29/2024 7:06	67503	WEWI_T2	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
4/29/2024 7:14	63801	HEMP_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
4/29/2024 7:14	63804	HEMP_T1	1	1	0	6.2	6.9	0.7	0	0	0	0	0	0	0	0
4/29/2024 7:17	54203	PENN_T1	18	18	0	0.91	0.81	-0.1	0	0	0	0	0	0	0	0
4/29/2024 7:17	54201	PENN_T1	9	9	0	0.87	0.78	-0.09	-0.91	-0.83	0	0	0	0	0	0
4/29/2024 7:18	54505	ENOL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/29/2024 7:18	54502	ENOL_T2	1	1	0	1.9	1.7	-0.2	-1.14	-1.16	1	1	0	600	600	0
4/29/2024 7:19	54203	PENN_T1	18	18	0	0.91	0.81	-0.1	0.07	0.05	0	0	0	0	0	0
4/29/2024 7:19	54201	PENN_T1	9	9	0	0.87	0.78	-0.09	0	0	0	0	0	0	0	0
4/29/2024 7:20	54203	PENN_T1	18	18	0	0.91	0.81	-0.1	0.07	0.05	0	0	0	0	0	0
4/29/2024 7:20	54201	PENN_T1	9	9	0	0.87	0.78	-0.09	0	0	0	0	0	0	0	0
4/29/2024 7:26	24702	FLND_T2	0	0	0	0	0	0	-0.13	-0.06	1	1	0	1200	1200	0
4/29/2024 7:34	13704	SOHN_T2	0	0	0	0	0	0	-0.37	-0.4	0	0	0	0	0	0
4/29/2024 7:39	62605	ENGL_T1	0	0	0	0	0	0	-0.77	-0.73	0	0	0	0	0	0
4/29/2024 7:39	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 7:39	46203	DANV_T2	198	203	5	0.75	1.05	0.3	-2.59	-1.25	0	0	0	0	0	0
4/29/2024 7:39	62607	ENGL_T1	2	2	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/29/2024 7:39	62601	ENGL_T1	0	0	0	0	0	0	-0.16	-0.08	0	0	0	0	0	0
4/29/2024 7:41	46203	DANV_T2	198	203	5	0.75	1.05	0.3	-2.59	-1.25	0	0	0	0	0	0
4/29/2024 7:41	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 7:41	15001	BLMO_T1	4	4	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
4/29/2024 7:42	40101	HUNT_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
4/29/2024 7:43	62605	ENGL_T1	0	0	0	0	0	0	-0.77	-0.73	0	0	0	0	0	0
4/29/2024 7:43	62607	ENGL_T1	2	2	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/29/2024 7:44	40703	FFLD_T1	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
4/29/2024 7:44	40702	FFLD_T1	0	37	37	0	0.18	0.18	-0.21	-0.44	1	1	0	1200	1200	0
4/29/2024 7:44	40701	FFLD_T1	0	33	33	0	0.6	0.6	0	0	0	0	0	0	0	0
4/29/2024 7:45	45702	LIND_T2	1	1	0	0.8	0.8	0	-0.35	-0.34	0	0	0	0	0	0
4/29/2024 7:48	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 7:49	67002	STHI_T2	0	0	0	0	0	0	1.98	2.04	0	0	0	0	0	0
4/29/2024 7:51	24902	WHHA_T1	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
4/29/2024 7:52	15204	SFAR_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
4/29/2024 7:52	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 7:53	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.32	0	0	0	0	0	0
4/29/2024 7:53	24901	WHHA_T1	0	0	0	0	0	0	0.38	0.42	0	0	0	0	0	0
4/29/2024 7:54	26002	WDAM_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/29/2024 7:54	26001	WDAM_T1	0	0	0	0	0	0	-0.84	-0.82	0	0	0	0	0	0
4/29/2024 7:55	45602	WOOL_T1	3	3	0	1.13	0.7	-0.43	0.39	0.4	0	0	0	0	0	0
4/29/2024 7:56	61801	EELI_T2	0	1	1	0	0	0	-0.7	-0.66	1	1	0	600	600	0
4/29/2024 7:56	20403	ASHF_T2	30	52	22	0.24	0.82	0.58	0	0	0	0	0	0	0	0
4/29/2024 7:56	20401	ASHF_T2	1	2	1	0	0.1	0.1	-0.38	-0.35	0	0	0	0	0	0
4/29/2024 7:57	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 7:58	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 7:59	45802	HEGI_T2	0	0	0	0	0	0	0.86	0.97	0	0	0	0	0	0
4/29/2024 8:00	45702	LIND_T2	1	1	0	0.2	1.2	1	-0.34	-0.35	0	0	0	0	0	0
4/29/2024 8:01	46506	LOHA_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/29/2024 8:01	46504	LOHA_T1	2	3	1	0.85	0.73	-0.12	0	0	0	0	0	0	0	0
4/29/2024 8:01	65004	NEFF_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
4/29/2024 8:01	46503	LOHA_T1	0	0	0	0	0	0	-1.28	-1.28	0	0	0	0	0	0
4/29/2024 8:02	12807	MICK_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
4/29/2024 8:02	12801	MICK_T1	0	0	0	0	0	0	-0.05	-0.03	1	1	0	600	600	0
4/29/2024 8:03	46506	LOHA_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/29/2024 8:03	46801	HEPB_T2	2	2	0	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
4/29/2024 8:03	46503	LOHA_T1	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
4/29/2024 8:03	46803	HEPB_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
4/29/2024 8:03	46504	LOHA_T1	2	3	1	0.85	0.73	-0.12	0	0	0	0	0	0	0	0
4/29/2024 8:06	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 8:09	53601	DALM_T2	1	1	0	1.2	0.8	-0.4	0.56	0.63	0	0	0	0	0	0
4/29/2024 8:09	46001	BERW_T1	0	0	0	0	0	0	0.8	0.78	0	0	0	0	0	0
4/29/2024 8:12	40101	HUNT_T2	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
4/29/2024 8:12	56603	HAMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 8:12	46001	BERW_T1	0	0	0	0	0	0	0.8	0.78	0	0	0	0	0	0
4/29/2024 8:12	56601	HAMP_T1	0	0	0	0	0	0	-1.84	-1.81	0	0	0	0	0	0
4/29/2024 8:13	46203	DANV_T2	173	185	12	0.69	1.14	0.45	-1.23	-1.19	0	0	0	0	0	0
4/29/2024 8:13	46206	DANV_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/29/2024 8:14	56601	HAMP_T1	0	0	0	0	0	0	-1.84	-1.81	0	0	0	0	0	0
4/29/2024 8:14	45701	LIND_T2	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
4/29/2024 8:14	56603	HAMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 8:14	46506	LOHA_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
4/29/2024 8:14	46504	LOHA_T1	2	3	1	0.85	0.73	-0.12	0	0	0	0	0	0	0	0
4/29/2024 8:14	45702	LIND_T2	1	1	0	0.2	1.2	1	0	0	0	0	0	0	0	0
4/29/2024 8:14	46501	LOHA_T1	0	0	0	0	0	0	-0.07	-0.01	1	1	0	1200	1200	0
4/29/2024 8:16	65004	NEFF_T2	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
4/29/2024 8:19	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 8:20	24801	VALM_T1	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
4/29/2024 8:20	64101	REFR_T1	0	0	0	0	0	0	-1.02	-1.05	0	0	0	0	0	0
4/29/2024 8:21	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 8:21	26001	WDAM_T1	0	0	0	0	0	0	-0.82	-0.8	0	0	0	0	0	0
4/29/2024 8:21	64101	REFR_T1	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
4/29/2024 8:21	26002	WDAM_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/29/2024 8:21	58001	WCAR_T1	5	5	0	0.68	0.9	0.22	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/29/2024 8:21	58003	WCAR_T1	13	25	12	0.27	0.22	-0.05	0.1	0.13	1	1	0	600	600	0
4/29/2024 8:22	67505	WEWI_T1	0	0	0	0	0	0	-0.18	-0.11	1	1	0	900	900	0
4/29/2024 8:22	64101	REFR_T1	0	0	0	0	0	0	-1.02	-1.05	0	0	0	0	0	0
4/29/2024 8:23	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 8:24	67505	WEWI_T1	0	0	0	0	0	0	-0.11	-0.06	1	1	0	900	900	0
4/29/2024 8:25	67701	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 8:25	67703	WERN_T2	0	0	0	0	0	0	-0.25	-0.23	1	1	0	900	900	0
4/29/2024 8:25	45501	DERR_T2	1	1	0	0.2	0.7	0.5	0.6	0.56	2	2	0	1800	1800	0
4/29/2024 8:26	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.69	-0.73	1	1	0	600	600	0
4/29/2024 8:28	45501	DERR_T2	1	1	0	0.2	0.7	0.5	0.6	0.56	2	2	0	1800	1800	0
4/29/2024 8:30	23203	HIRU_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
4/29/2024 8:31	55002	NEWP_T1	9	12	3	0.67	0.89	0.22	-0.43	-0.48	0	0	0	0	0	0
4/29/2024 8:33	14205	EALL_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
4/29/2024 8:35	51004	NHAR_T1	13	13	0	1.35	1.18	-0.17	0	0	0	0	0	0	0	0
4/29/2024 8:35	51002	NHAR_T1	1	2	1	1.9	1.5	-0.4	0	0	0	0	0	0	0	0
4/29/2024 8:35	51003	NHAR_T1	0	0	0	0	0	0	-3.37	-3.25	1	1	0	1200	1200	0
4/29/2024 8:36	55002	NEWP_T1	9	12	3	0.67	0.89	0.22	-0.21	-0.24	0	0	0	0	0	0
4/29/2024 8:37	56802	BENV_T2	4	6	2	0.33	0.35	0.02	-0.75	-0.73	0	0	0	0	0	0
4/29/2024 8:37	58001	WCAR_T1	4	5	1	1.05	0.78	-0.27	0	0	0	0	0	0	0	0
4/29/2024 8:37	58003	WCAR_T1	1	25	24	1.8	0.22	-1.58	0.13	0.16	1	1	0	600	600	0
4/29/2024 8:38	56802	BENV_T2	4	6	2	0.33	0.35	0.02	-1.46	-1.44	0	0	0	0	0	0
4/29/2024 8:38	58001	WCAR_T1	4	5	1	1.05	0.78	-0.27	0	0	0	0	0	0	0	0
4/29/2024 8:38	58003	WCAR_T1	1	25	24	1.8	0.22	-1.58	0.16	0.14	1	1	0	600	600	0
4/29/2024 8:39	56802	BENV_T2	4	6	2	0.33	0.35	0.02	-0.73	-0.72	0	0	0	0	0	0
4/29/2024 8:40	24702	FLND_T2	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/29/2024 8:40	56802	BENV_T2	4	6	2	0.33	0.35	0.02	-1.46	-1.44	0	0	0	0	0	0
4/29/2024 8:40	24701	FLND_T2	0	9	9	0	0	0	0.35	0.35	0	0	0	0	0	0
4/29/2024 8:41	24702	FLND_T2	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
4/29/2024 8:41	56802	BENV_T2	4	6	2	0.33	0.35	0.02	-1.46	-1.44	0	0	0	0	0	0
4/29/2024 8:41	24701	FLND_T2	0	9	9	0	0	0	0.35	0.35	0	0	0	0	0	0
4/29/2024 8:44	24701	FLND_T2	0	9	9	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 8:44	24702	FLND_T2	2	2	0	0.2	0.45	0.25	0.09	1.35	1	0	-1	1200	0	-1200
4/29/2024 8:47	42002	MNVL_T2	1	1	0	4.5	4.5	0	0	0	0	0	0	0	0	0
4/29/2024 8:47	42001	MNVL_T2	4	62	58	0.2	0.17	-0.03	-0.05	-0.04	0	0	0	0	0	0
4/29/2024 8:47	13503	MCMI_T2	1	1	0	0.2	0.5	0.3	-0.04	-0.01	0	0	0	0	0	0
4/29/2024 9:02	55002	NEWP_T1	12	14	2	0.87	0.81	-0.06	-0.24	-0.23	0	0	0	0	0	0
4/29/2024 9:03	55002	NEWP_T1	12	14	2	0.87	0.81	-0.06	-0.72	-0.69	0	0	0	0	0	0
4/29/2024 9:05	46001	BERW_T1	0	0	0	0	0	0	0.76	0.57	0	0	0	0	0	0
4/29/2024 9:05	12501	MITR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 9:05	43202	MVIL_T2	92	116	24	1.12	1.34	0.22	-0.58	-0.58	0	0	0	0	0	0
4/29/2024 9:05	43201	MVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 9:05	12502	MITR_T2	1	1	0	6.6	6.9	0.3	0	0	0	0	0	0	0	0
4/29/2024 9:05	12505	MITR_T2	0	0	0	0	0	0	1.6	1.89	0	0	0	0	0	0
4/29/2024 9:06	46001	BERW_T1	0	0	0	0	0	0	0.76	0.57	0	0	0	0	0	0
4/29/2024 9:07	64101	REFR_T1	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
4/29/2024 9:08	15001	BLMO_T1	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/29/2024 9:09	29402	BELT_T1	1	1	0	7.2	7.4	0.2	0	0	0	0	0	0	0	0
4/29/2024 9:10	20403	ASHF_T2	6	1	-5	0.15	0.1	-0.05	0.78	0.82	0	0	0	0	0	0
4/29/2024 9:10	20401	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/29/2024 9:10	15001	BLMO_T1	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/29/2024 9:10	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 9:11	41301	FISH_T1	2	2	0	2.35	2.4	0.05	-0.11	-0.1	0	0	0	0	0	0
4/29/2024 9:11	46001	BERW_T1	0	0	0	0	0	0	0.57	0.66	0	0	0	0	0	0
4/29/2024 9:12	15001	BLMO_T1	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/29/2024 9:15	41301	FISH_T1	2	3	1	2.15	1.83	-0.32	-0.11	-0.1	0	0	0	0	0	0
4/29/2024 9:16	45702	LIND_T2	0	2	2	0	0.6	0.6	-0.4	-0.37	0	0	0	0	0	0
4/29/2024 9:16	41301	FISH_T1	2	3	1	2.15	1.83	-0.32	-0.11	-0.1	0	0	0	0	0	0
4/29/2024 9:21	49804	UNIV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/29/2024 9:21	49803	UNIV_T1	0	2	2	0	0.35	0.35	-1.08	-1.06	0	0	0	0	0	0
4/29/2024 9:25	20402	ASHF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/29/2024 9:25	24104	EHAZ_T1	15	32	17	0.15	0.18	0.03	-2.22	-2.19	1	1	0	1200	1200	0
4/29/2024 9:25	24105	EHAZ_T1	4	0	-4	6.15	6.08	-0.07	0	0	0	0	0	0	0	0
4/29/2024 9:25	24102	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 9:25	24101	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 9:25	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.41	0.45	0	0	0	0	0	0
4/29/2024 9:32	46506	LOHA_T1	1	1	0	0.5	0.2	-0.3	-0.4	-0.45	0	0	0	0	0	0
4/29/2024 9:35	44601	SALE_T2	0	0	0	0	0	0	0.65	2.51	2	2	0	1200	1200	0
4/29/2024 9:48	66502	SMAN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/29/2024 9:48	66505	SMAN_T2	0	0	0	0	0	0	0.87	0.84	2	2	0	1100	1100	0
4/29/2024 9:49	56504	ROCK_T2	0	6	6	0	0.63	0.63	0	0	0	0	0	0	0	0
4/29/2024 9:49	54201	PENN_T1	10	11	1	0.79	0.89	0.1	-0.71	-0.73	0	0	0	0	0	0
4/29/2024 9:49	56501	ROCK_T2	2	2	0	0.55	1	0.45	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 9:49	54203	PENN_T1	18	18	0	0.92	0.97	0.05	0	0	0	0	0	0	0	0
4/29/2024 9:51	67803	WLAN_T1	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
4/29/2024 9:51	67804	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 9:52	40602	PIGR_T1	1	0	-1	0.1	0	-0.1	0.03	0.05	1	1	0	600	600	0
4/29/2024 9:52	40601	PIGR_T1	100	42	-58	0.25	0.27	0.02	0	0	0	0	0	0	0	0
4/29/2024 9:52	60605	NCOL_T2	4	5	1	0.68	0.47	-0.21	0	0	0	0	0	0	0	0
4/29/2024 9:53	45902	AUBU_T1	1	0	-1	1.1	1	-0.1	-1.15	-1.39	2	2	0	1200	1200	0
4/29/2024 9:54	10801	CHHI_T1	4	5	1	0.73	0.86	0.13	-0.51	-0.58	1	1	0	900	900	0
4/29/2024 9:54	56501	ROCK_T2	2	2	0	0.55	1	0.45	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 9:54	56504	ROCK_T2	0	6	6	0	0.63	0.63	0	0	0	0	0	0	0	0
4/29/2024 9:55	45902	AUBU_T1	1	1	0	1.1	1	-0.1	-1.73	-2.09	3	3	0	1800	1800	0
4/29/2024 9:56	40801	EXCH_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/29/2024 9:56	40802	EXCH_T2	0	0	0	0	0	0	-0.21	-0.36	0	0	0	0	0	0
4/29/2024 9:57	40802	EXCH_T2	0	0	0	0	0	0	-0.43	-0.71	0	0	0	0	0	0
4/29/2024 9:57	40801	EXCH_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/29/2024 9:58	41504	FAIR_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
4/29/2024 9:58	23203	HIRU_T2	0	0	0	0	0	0	0.14	0.06	0	0	0	0	0	0
4/29/2024 9:59	24501	GOUL_T2	1	1	0	0.1	0.1	0	0.04	0.04	0	0	0	0	0	0
4/29/2024 10:00	63801	HEMP_T1	1	4	3	0.1	0.18	0.08	0.88	1.02	0	0	0	0	0	0
4/29/2024 10:00	46506	LOHA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/29/2024 10:00	26001	WDAM_T1	1	3	2	0.3	0.47	0.17	-0.82	-0.82	0	0	0	0	0	0
4/29/2024 10:00	46002	BERW_T2	0	1	1	0	0.1	0.1	-1.17	-1.16	1	1	0	900	900	0
4/29/2024 10:00	24102	EHAZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/29/2024 10:00	53901	HALI_T2	2	1	-1	0.6	0.8	0.2	-0.94	-0.99	0	0	0	0	0	0
4/29/2024 10:00	10805	CHHI_T2	1	1	0	8.4	8.4	0	-0.83	-0.77	1	1	0	600	600	0
4/29/2024 10:00	67502	WEWI_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
4/29/2024 10:00	60803	BUCK_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 10:00	60101	COCA_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
4/29/2024 10:00	10801	CHHI_T1	4	4	0	1	0.68	-0.32	-1.02	-1.15	2	2	0	1800	1800	0
4/29/2024 10:00	14603	SWHI_T1	1	3	2	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
4/29/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	1.2	1.25	0	0	0	0	0	0
4/29/2024 10:00	29402	BELT_T1	1	2	1	7.2	3.75	-3.45	0	0	0	0	0	0	0	0
4/29/2024 10:00	42302	MOWR_T2	0	1	1	0	0	0	1.06	1.05	0	0	0	0	0	0
4/29/2024 10:00	60504	NMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
4/29/2024 10:00	50505	MECH_T1	0	0	0	0	0	0	-0.81	-0.76	0	0	0	0	0	0
4/29/2024 10:00	15103	UPHA_T2	0	0	0	0	0	0	-0.82	-0.8	0	0	0	0	0	0
4/29/2024 10:00	64904	MILL_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
4/29/2024 10:00	43103	SMIL_T2	18	18	0	0.83	0.74	-0.09	0	0	0	0	0	0	0	0
4/29/2024 10:00	58401	MORO_T1	0	1	1	0	0.1	0.1	-0.49	-0.44	1	1	0	600	600	0
4/29/2024 10:00	17001	RIRO_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
4/29/2024 10:00	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 10:00	62605	ENGL_T1	0	0	0	0	0	0	-0.57	-0.54	0	0	0	0	0	0
4/29/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	-0.07	-0.05	1	1	0	600	600	0
4/29/2024 10:00	40601	PIGR_T1	41	10	-31	0.27	0.38	0.11	0	0	0	0	0	0	0	0
4/29/2024 10:00	24104	EHAZ_T1	40	7	-33	0.19	0.27	0.08	0	0	0	0	0	0	0	0
4/29/2024 10:00	42002	MNVL_T2	1	1	0	4.9	5	0.1	0	0	0	0	0	0	0	0
4/29/2024 10:00	56501	ROCK_T2	2	3	1	1	0.8	-0.2	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 10:00	63306	GREE_T1	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
4/29/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
4/29/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-2.04	-1.93	6	6	0	4800	4800	0
4/29/2024 10:00	50501	MECH_T1	4	4	0	0.6	0.58	-0.02	0	0	0	0	0	0	0	0
4/29/2024 10:00	47002	HUGH_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
4/29/2024 10:00	61302	EARL_T1	0	0	0	0	0	0	1.05	1.16	2	2	0	1800	1800	0
4/29/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 10:00	54201	PENN_T1	9	97	88	0.74	0.32	-0.42	-0.73	-0.72	0	0	0	0	0	0
4/29/2024 10:00	67703	WERN_T2	0	1	1	0	0.2	0.2	-0.11	-0.07	1	1	0	900	900	0
4/29/2024 10:00	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	0.2	0.25	1	1	0	600	600	0
4/29/2024 10:00	57106	SPHI_T2	2	2	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
4/29/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-0.6	-0.59	2	2	0	2100	2100	0
4/29/2024 10:00	40201	BEGA_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/29/2024 10:00	16902	MECK_T1	1	1	0	0.1	0.1	0	0.04	0.04	0	0	0	0	0	0
4/29/2024 10:00	42001	MNVL_T2	8	6	-2	0.54	0.43	-0.11	0.02	0.04	0	0	0	0	0	0
4/29/2024 10:00	27502	WEIS_T2	0	0	0	0	0	0	-0.9	-0.95	0	0	0	0	0	0
4/29/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	0.28	0.38	1	1	0	1200	1200	0
4/29/2024 10:00	65002	NEFF_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/29/2024 10:00	12502	MITR_T2	1	1	0	7.3	7.3	0	0	0	0	0	0	0	0	0
4/29/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	-0.54	-0.45	1	1	0	600	600	0
4/29/2024 10:00	67001	STHI_T2	2	8	6	0.2	0.36	0.16	0	0	0	0	0	0	0	0
4/29/2024 10:00	40505	CRES_T1	3	3	0	4.13	4.1	-0.03	0.36	0.44	0	0	0	0	0	0
4/29/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.05	0.64	0	0	0	0	0	0
4/29/2024 10:00	63803	HEMP_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/29/2024 10:00	67002	STHI_T2	4	14	10	0.25	0.36	0.11	0.87	0.87	0	0	0	0	0	0
4/29/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	1.06	1	2	2	0	1200	1200	0
4/29/2024 10:00	12501	MITR_T2	1	1	0	4	4.8	0.8	0	0	0	0	0	0	0	0
4/29/2024 10:00	67702	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.47	0.51	0	0	0	0	0	0
4/29/2024 10:00	44502	HAMI_T2	1	1	0	2.5	2.6	0.1	-0.82	-0.81	0	0	0	0	0	0
4/29/2024 10:00	43301	WATS_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
4/29/2024 10:00	43101	SMIL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/29/2024 10:00	12803	MICK_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	1.21	1.31	0	0	0	0	0	0
4/29/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.41	0.45	0	0	0	0	0	0
4/29/2024 10:00	63401	HONY_T1	0	0	0	0	0	0	0.87	0.84	0	0	0	0	0	0
4/29/2024 10:00	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 10:00	54504	ENOL_T2	1	1	0	0.4	1.2	0.8	0	0	0	0	0	0	0	0
4/29/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	0.05	0.13	1	1	0	1200	1200	0
4/29/2024 10:00	41902	REED_T1	0	0	0	0	0	0	1.19	1.13	0	0	0	0	0	0
4/29/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
4/29/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-1.26	-1.28	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/29/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.1	-0.1	1	1	0	600	600	0
4/29/2024 10:00	24701	FLND_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
4/29/2024 10:00	45902	AUBU_T1	1	1	0	1	1	0	-1.15	-1.39	2	2	0	1200	1200	0
4/29/2024 10:00	26002	WDAM_T1	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/29/2024 10:00	12601	MACA_T1	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/29/2024 10:00	40602	PIGR_T1	0	1	1	0	0	0	0.05	0.08	1	1	0	600	600	0
4/29/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	0	0.06	0	0	0	0	0	0
4/29/2024 10:00	62105	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 10:00	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 10:00	53903	HALI_T2	5	3	-2	0.84	0.77	-0.07	0	0	0	0	0	0	0	0
4/29/2024 10:00	54203	PENN_T1	18	22	4	0.74	1.02	0.28	0.36	0.33	0	0	0	0	0	0
4/29/2024 10:00	43104	SMIL_T2	2	1	-1	0.2	0.3	0.1	-0.83	-0.82	1	1	0	300	300	0
4/29/2024 10:00	56504	ROCK_T2	3	3	0	0.6	0.63	0.03	0	0	0	0	0	0	0	0
4/29/2024 10:00	45702	LIND_T2	1	2	1	0.9	0.55	-0.35	-0.32	-0.36	0	0	0	0	0	0
4/29/2024 10:00	52004	LING_T2	0	1	1	0	0.1	0.1	0.39	0.41	0	0	0	0	0	0
4/29/2024 10:00	64801	MONE_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
4/29/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-0.29	-0.13	1	1	0	1200	1200	0
4/29/2024 10:00	11101	EGYP_T1	0	2	2	0	0	0	0	0	1	1	0	1200	1200	0
4/29/2024 10:00	43105	SMIL_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/29/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
4/29/2024 10:00	57101	SPHI_T2	6	6	0	0.45	0.58	0.13	0	0	0	0	0	0	0	0
4/29/2024 10:00	60501	NMAN_T2	3	3	0	4.57	4.63	0.06	0	0	0	0	0	0	0	0
4/29/2024 10:00	56601	HAMP_T1	0	0	0	0	0	0	-1.69	-1.68	0	0	0	0	0	0
4/29/2024 10:00	65702	RVIL_T2	0	0	0	0	0	0	-0.78	-0.74	1	1	0	600	600	0
4/29/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
4/29/2024 10:00	12505	MITR_T2	0	0	0	0	0	0	3.08	3.43	0	0	0	0	0	0
4/29/2024 10:00	14601	SWHI_T1	0	1	1	0	0.2	0.2	-0.34	-0.34	0	0	0	0	0	0
4/29/2024 10:00	43304	WATS_T2	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
4/29/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
4/29/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	-0.32	-0.19	0	0	0	0	0	0
4/29/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.89	0.59	0	0	0	0	0	0
4/29/2024 10:00	26401	INOR_T1	4	2	-2	1.93	4	2.07	0.99	0.9	0	0	0	0	0	0
4/29/2024 10:00	24101	EHAZ_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/29/2024 10:00	17101	WTRE_T2	2	2	0	8.15	8.25	0.1	0	0	0	0	0	0	0	0
4/29/2024 10:00	54505	ENOL_T2	1	2	1	0.2	0.65	0.45	0	0	0	0	0	0	0	0
4/29/2024 10:00	54502	ENOL_T2	1	1	0	0.9	1.4	0.5	0	0	0	0	0	0	0	0
4/29/2024 10:00	63804	HEMP_T1	1	1	0	6.8	7.1	0.3	0	0	0	0	0	0	0	0
4/29/2024 10:00	43102	SMIL_T2	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/29/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	0.62	0.62	2	2	0	1800	1800	0
4/29/2024 10:00	53902	HALI_T2	3	3	0	2.37	2.23	-0.14	0	0	0	0	0	0	0	0
4/29/2024 10:00	54001	SDLE_T1	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
4/29/2024 10:00	50502	MECH_T1	1	1	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
4/29/2024 10:00	25603	ARRO_T1	1	1	0	0.1	0	-0.1	-0.22	-0.22	0	0	0	0	0	0
4/29/2024 10:00	44505	HAMI_T2	0	0	0	0	0	0	1.04	1.06	0	0	0	0	0	0
4/29/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	0.09	0.18	0	0	0	0	0	0
4/29/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	-0.06	-0.12	2	2	0	1200	1200	0
4/29/2024 10:00	12807	MICK_T1	1	0	-1	0.2	0	-0.2	-0.76	-0.72	0	0	0	0	0	0
4/29/2024 10:00	24105	EHAZ_T1	4	4	0	6.08	6.2	0.12	-0.52	-0.53	1	1	0	1200	1200	0
4/29/2024 10:00	57104	SPHI_T2	1	1	0	0.5	0.5	0	-0.95	-0.91	0	0	0	0	0	0
4/29/2024 10:00	50506	MECH_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/29/2024 10:00	58803	COCO_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
4/29/2024 10:00	62607	ENGL_T1	1	2	1	0	0	0	-1.02	-1.04	1	1	0	300	300	0
4/29/2024 10:00	24702	FLND_T2	3	3	0	0.67	1.13	0.46	0	0	0	0	0	0	0	0
4/29/2024 10:00	53501	EVIL_T2	2	2	0	0.25	0.3	0.05	1.15	0.78	2	2	0	1200	1200	0
4/29/2024 10:00	63302	GREE_T1	0	0	0	0	0	0	0.64	0.69	0	0	0	0	0	0
4/29/2024 10:00	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
4/29/2024 10:00	12604	MACA_T1	0	0	0	0	0	0	0.37	0.4	0	0	0	0	0	0
4/29/2024 10:02	59001	MIFF_T1	1	3	2	0.7	1.17	0.47	0	0	0	0	0	0	0	0
4/29/2024 10:02	59002	MIFF_T1	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
4/29/2024 10:02	59003	MIFF_T1	0	2	2	0	0.25	0.25	0.57	-0.21	0	0	0	0	0	0
4/29/2024 10:03	40601	PIGR_T1	41	10	-31	0.27	0.38	0.11	0	0	0	0	0	0	0	0
4/29/2024 10:03	40602	PIGR_T1	0	1	1	0	0	0	0.1	0.16	2	2	0	1200	1200	0
4/29/2024 10:05	54201	PENN_T1	9	97	88	0.74	0.32	-0.42	0	0	0	0	0	0	0	0
4/29/2024 10:05	54203	PENN_T1	18	22	4	0.74	1.02	0.28	0.36	0.33	0	0	0	0	0	0
4/29/2024 10:06	59003	MIFF_T1	0	2	2	0	0.25	0.25	0.57	-0.21	0	0	0	0	0	0
4/29/2024 10:06	59002	MIFF_T1	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
4/29/2024 10:06	53802	MBRG_T2	0	0	0	0	0	0	0.74	0.78	0	0	0	0	0	0
4/29/2024 10:06	59001	MIFF_T1	1	3	2	0.7	1.17	0.47	0	0	0	0	0	0	0	0
4/29/2024 10:07	58003	WCAR_T1	1	10	9	1.2	0.35	-0.85	0.3	0.3	1	1	0	600	600	0
4/29/2024 10:07	40703	FFLD_T1	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
4/29/2024 10:07	53501	EVIL_T2	2	2	0	0.25	0.3	0.05	0.58	0.39	1	1	0	600	600	0
4/29/2024 10:07	64101	REFR_T1	0	0	0	0	0	0	-2.11	-2.11	0	0	0	0	0	0
4/29/2024 10:07	64902	MILL_T2	0	0	0	0	0	0	-0.47	-0.46	1	1	0	900	900	0
4/29/2024 10:07	54203	PENN_T1	18	22	4	0.74	1.02	0.28	0.36	0.33	0	0	0	0	0	0
4/29/2024 10:07	20401	ASHF_T2	1	3	2	3.5	0.15	-3.35	0	0	0	0	0	0	0	0
4/29/2024 10:07	54201	PENN_T1	9	97	88	0.74	0.32	-0.42	-0.73	-0.72	0	0	0	0	0	0
4/29/2024 10:07	22404	MORG_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/29/2024 10:07	60801	BUCK_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
4/29/2024 10:07	61302	EARL_T1	0	0	0	0	0	0	1.05	1.16	2	2	0	1800	1800	0
4/29/2024 10:07	45602	WOOL_T1	3	2	-1	0.23	0.2	-0.03	0.9	0.96	0	0	0	0	0	0
4/29/2024 10:07	22405	MORG_T2	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
4/29/2024 10:07	20403	ASHF_T2	2	10	8	0.1	0.51	0.41	0.4	0.42	0	0	0	0	0	0
4/29/2024 10:07	59102	WALK_T2	0	0	0	0	0	0	-0.07	-0.05	1	1	0	600	600	0
4/29/2024 10:07	60803	BUCK_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 10:07	58001	WCAR_T1	3	5	2	0.2	0.9	0.7	0	0	0	0	0	0	0	0
4/29/2024 10:08	42902	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 10:08	42903	MIDD_T2	0	0	0	0	0	0	0.91	0.89	1	1	0	1200	1200	0
4/29/2024 10:08	60602	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 10:08	51004	NHAR_T1	13	13	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
4/29/2024 10:08	48302	ORWI_T2	2	2	0	0.75	0.6	-0.15	0.04	0.04	0	0	0	0	0	0
4/29/2024 10:08	13901	SEID_T1	0	0	0	0	0	0	0.32	0.25	0	0	0	0	0	0
4/29/2024 10:08	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 10:08	45902	AUBU_T1	1	1	0	1	1	0	-0.7	-0.64	1	1	0	600	600	0
4/29/2024 10:08	39601	LNFD_T1	1	1	0	1.7	1.7	0	0	0	1	1	0	900	900	0
4/29/2024 10:08	51002	NHAR_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
4/29/2024 10:08	47104	MARL_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
4/29/2024 10:08	60605	NCOL_T2	3	5	2	0.47	0.67	0.2	0	0	0	0	0	0	0	0
4/29/2024 10:08	25603	ARRO_T1	1	1	0	0.1	0	-0.1	-0.22	-0.22	0	0	0	0	0	0
4/29/2024 10:08	54601	SUMM_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
4/29/2024 10:08	16605	PONO_T1	0	0	0	0	0	0	-0.51	-0.44	1	1	0	1200	1200	0
4/29/2024 10:08	15404	WALL_T1	0	0	0	0	0	0	-1.6	-1.56	0	0	0	0	0	0
4/29/2024 10:08	15001	BLMO_T1	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
4/29/2024 10:08	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 10:08	64101	REFR_T1	0	0	0	0	0	0	-1.06	-1.16	0	0	0	0	0	0
4/29/2024 10:08	40101	HUNT_T2	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
4/29/2024 10:08	58101	NEKI_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/29/2024 10:08	42701	AUGU_T1	2	3	1	0.75	0.6	-0.15	0	0	4	4	0	3600	3600	0
4/29/2024 10:08	58102	NEKI_T1	0	2	2	0	0.55	0.55	0.51	0.53	0	0	0	0	0	0
4/29/2024 10:08	54602	SUMM_T2	0	0	0	0	0	0	-2.33	-2.29	1	1	0	600	600	0
4/29/2024 10:08	40902	JESH_T1	0	0	0	0	0	0	0.2	0.25	1	1	0	600	600	0
4/29/2024 10:09	64101	REFR_T1	0	0	0	0	0	0	-1.06	-1.16	0	0	0	0	0	0
4/29/2024 10:09	60602	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 10:09	60605	NCOL_T2	3	5	2	0.47	0.67	0.2	0	0	0	0	0	0	0	0
4/29/2024 10:09	56801	BENV_T1	36	37	1	0.68	0.67	-0.01	-0.8	-0.79	1	1	0	600	600	0
4/29/2024 10:09	56803	BENV_T1	2	3	1	0.65	0.33	-0.32	0	0	0	0	0	0	0	0
4/29/2024 10:10	64101	REFR_T1	0	0	0	0	0	0	-2.11	-2.31	0	0	0	0	0	0
4/29/2024 10:10	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 10:10	60605	NCOL_T2	3	5	2	0.47	0.67	0.2	0	0	0	0	0	0	0	0
4/29/2024 10:10	15001	BLMO_T1	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
4/29/2024 10:10	29402	BELT_T1	1	2	1	7.2	3.75	-3.45	0	0	0	0	0	0	0	0
4/29/2024 10:10	60602	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 10:10	56802	BENV_T2	9	7	-2	0.38	0.39	0.01	-2.05	-1.79	0	0	0	0	0	0
4/29/2024 10:11	10801	CHHI_T1	4	4	0	1	0.68	-0.32	-0.58	-0.41	1	1	0	900	900	0
4/29/2024 10:11	56802	BENV_T2	9	7	-2	0.38	0.39	0.01	-2.05	-1.79	0	0	0	0	0	0
4/29/2024 10:11	64101	REFR_T1	0	0	0	0	0	0	-1.06	-1.16	0	0	0	0	0	0
4/29/2024 10:11	60602	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 10:11	15001	BLMO_T1	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
4/29/2024 10:11	60605	NCOL_T2	3	5	2	0.47	0.67	0.2	0	0	0	0	0	0	0	0
4/29/2024 10:12	23202	HIRU_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
4/29/2024 10:12	56802	BENV_T2	9	7	-2	0.38	0.39	0.01	-1.37	-1.19	0	0	0	0	0	0
4/29/2024 10:12	67605	WARW_T1	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
4/29/2024 10:13	56802	BENV_T2	9	7	-2	0.38	0.39	0.01	-2.74	-2.38	0	0	0	0	0	0
4/29/2024 10:13	23203	HIRU_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
4/29/2024 10:13	67603	WARW_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
4/29/2024 10:14	10805	CHHI_T2	1	1	0	8.4	8.4	0	-0.77	-0.76	1	1	0	600	600	0
4/29/2024 10:14	56802	BENV_T2	9	7	-2	0.38	0.39	0.01	-3.42	-2.98	0	0	0	0	0	0
4/29/2024 10:15	64204	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
4/29/2024 10:15	25503	MADI_T1	0	7	7	0	0.19	0.19	-1.03	-1.04	0	0	0	0	0	0
4/29/2024 10:15	56802	BENV_T2	7	7	0	0.33	0.49	0.16	-0.68	-0.6	0	0	0	0	0	0
4/29/2024 10:15	25501	MADI_T1	1	2	1	0.6	0.65	0.05	0	0	0	0	0	0	0	0
4/29/2024 10:15	25502	MADI_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 10:15	64201	KINZ_T1	0	0	0	0	0	0	-0.27	-0.01	4	4	0	2100	2100	0
4/29/2024 10:16	55002	NEWP_T1	11	34	23	0.77	0.5	-0.27	-0.57	-0.51	0	0	0	0	0	0
4/29/2024 10:16	40601	PIGR_T1	10	7	-3	0.38	0.39	0.01	0.31	0.4	0	0	0	0	0	0
4/29/2024 10:16	45702	LIND_T2	1	2	1	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
4/29/2024 10:16	25404	LAHA_T2	9	3	-6	0.28	0.4	0.12	0	0	0	0	0	0	0	0
4/29/2024 10:16	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 10:16	45701	LIND_T2	0	0	0	0	0	0	0.43	0.48	0	0	0	0	0	0
4/29/2024 10:16	25402	LAHA_T2	2	2	0	1.5	1.65	0.15	-0.46	-0.36	0	0	0	0	0	0
4/29/2024 10:17	65002	NEFF_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
4/29/2024 10:17	45702	LIND_T2	1	2	1	0.9	0.55	-0.35	-0.36	-0.32	0	0	0	0	0	0
4/29/2024 10:17	65001	NEFF_T2	0	0	0	0	0	0	-0.13	-0.12	1	1	0	1200	1200	0
4/29/2024 10:18	42902	MIDD_T2	0	1	1	0	0.3	0.3	-0.91	-0.87	1	1	0	600	600	0
4/29/2024 10:18	13502	MCMI_T1	1	1	0	0.5	1.6	1.1	0	0	0	0	0	0	0	0
4/29/2024 10:18	46301	ROHR_T1	196	230	34	0.35	0.41	0.06	0	0	0	0	0	0	0	0
4/29/2024 10:18	43202	MVIL_T2	100	101	1	1.03	1.04	0.01	-0.58	-0.58	0	0	0	0	0	0
4/29/2024 10:18	46302	ROHR_T1	35	52	17	0.51	0.42	-0.09	0.12	0.13	0	0	0	0	0	0
4/29/2024 10:18	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
4/29/2024 10:18	43201	MVIL_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
4/29/2024 10:19	40302	TAMA_T3	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
4/29/2024 10:19	43202	MVIL_T2	100	101	1	1.03	1.04	0.01	-0.58	-0.58	0	0	0	0	0	0
4/29/2024 10:19	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 10:19	40601	PIGR_T1	10	7	-3	0.38	0.39	0.01	0.31	0.4	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/29/2024 10:19	45702	LIND_T2	1	2	1	0.9	0.55	-0.35	-0.36	-0.32	0	0	0	0	0	0
4/29/2024 10:19	42902	MIDD_T2	0	1	1	0	0.3	0.3	-0.91	-0.87	1	1	0	600	600	0
4/29/2024 10:19	46301	ROHR_T1	196	230	34	0.35	0.41	0.06	0.23	0.22	0	0	0	0	0	0
4/29/2024 10:19	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 10:19	46302	ROHR_T1	35	52	17	0.51	0.42	-0.09	0	0	0	0	0	0	0	0
4/29/2024 10:20	55002	NEWP_T1	11	34	23	0.77	0.5	-0.27	-0.19	-0.17	0	0	0	0	0	0
4/29/2024 10:20	66505	SMAN_T2	0	2	2	0	0	0	0.98	0.97	2	2	0	1100	1100	0
4/29/2024 10:20	66502	SMAN_T2	1	1	0	0.3	0.4	0.1	0.7	0.72	0	0	0	0	0	0
4/29/2024 10:21	46302	ROHR_T1	35	52	17	0.51	0.42	-0.09	0.12	0.13	0	0	0	0	0	0
4/29/2024 10:21	43301	WATS_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
4/29/2024 10:21	43304	WATS_T2	0	1	1	0	0	0.3	-0.82	0	0	0	0	0	0	0
4/29/2024 10:21	46301	ROHR_T1	196	230	34	0.35	0.41	0.06	0	0	0	0	0	0	0	0
4/29/2024 10:22	60605	NCOL_T2	5	4	-1	0.6	0.67	0.07	0	0	0	0	0	0	0	0
4/29/2024 10:22	20401	ASHF_T2	1	3	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/29/2024 10:22	20403	ASHF_T2	1	10	9	0.1	0.55	0.45	0.85	1.06	0	0	0	0	0	0
4/29/2024 10:22	46302	ROHR_T1	35	52	17	0.51	0.42	-0.09	0	0	0	0	0	0	0	0
4/29/2024 10:22	46301	ROHR_T1	196	230	34	0.35	0.41	0.06	0.23	0.22	0	0	0	0	0	0
4/29/2024 10:23	20401	ASHF_T2	1	3	2	0.3	0.2	-0.1	-0.97	-0.94	0	0	0	0	0	0
4/29/2024 10:23	20403	ASHF_T2	1	10	9	0.1	0.55	0.45	0.53	0.51	0	0	0	0	0	0
4/29/2024 10:23	60801	BUCK_T1	0	0	0	0	0	0	-0.37	-0.46	0	1	1	0	600	600
4/29/2024 10:23	60803	BUCK_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 10:24	58003	WCAR_T1	1	10	9	1.3	0.36	-0.94	0.32	0.36	1	1	0	600	600	0
4/29/2024 10:24	67702	WERN_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 10:24	20403	ASHF_T2	1	10	9	0.1	0.55	0.45	0.53	0.51	0	0	0	0	0	0
4/29/2024 10:24	67703	WERN_T2	0	1	1	0	0.2	0.2	-0.12	-0.11	2	2	0	1800	1800	0
4/29/2024 10:24	64101	REFR_T1	0	0	0	0	0	0	-1.16	-0.91	0	0	0	0	0	0
4/29/2024 10:24	20401	ASHF_T2	1	3	2	0.3	0.2	-0.1	-0.97	-0.94	0	0	0	0	0	0
4/29/2024 10:24	58001	WCAR_T1	5	5	0	0.54	0.9	0.36	0	0	0	0	0	0	0	0
4/29/2024 10:24	45902	AUBU_T1	1	1	0	0.8	1	0.2	-0.64	-0.53	1	1	0	600	600	0
4/29/2024 10:25	45902	AUBU_T1	1	1	0	0.8	1	0.2	-0.64	-0.53	1	1	0	600	600	0
4/29/2024 10:25	15001	BLMO_T1	2	5	3	0.15	0.28	0.13	0	0	0	0	0	0	0	0
4/29/2024 10:26	67703	WERN_T2	0	1	1	0	0.2	0.2	-0.12	-0.11	2	2	0	1800	1800	0
4/29/2024 10:26	46001	BERW_T1	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
4/29/2024 10:26	46005	BERW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/29/2024 10:26	45902	AUBU_T1	1	1	0	0.8	1	0.2	-1.28	-1.07	2	2	0	1200	1200	0
4/29/2024 10:26	67702	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 10:27	15001	BLMO_T1	2	5	3	0.15	0.28	0.13	0	0	0	0	0	0	0	0
4/29/2024 10:27	67702	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 10:27	67703	WERN_T2	0	1	1	0	0.2	0.2	-0.06	-0.06	1	1	0	900	900	0
4/29/2024 10:27	58001	WCAR_T1	5	5	0	0.54	0.9	0.36	0	0	0	0	0	0	0	0
4/29/2024 10:27	58003	WCAR_T1	1	10	9	1.3	0.36	-0.94	0.32	0.36	1	1	0	600	600	0
4/29/2024 10:28	40802	EXCH_T2	0	0	0	0	0	0	-0.42	-0.85	0	0	0	0	0	0
4/29/2024 10:28	40801	EXCH_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/29/2024 10:29	62102	ELAN_T1	0	0	0	0	0	0	0.68	0.79	0	0	0	0	0	0
4/29/2024 10:29	40802	EXCH_T2	0	0	0	0	0	0	-0.21	-0.42	0	0	0	0	0	0
4/29/2024 10:29	62105	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/29/2024 10:29	40801	EXCH_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/29/2024 10:30	59302	MCAL_T1	0	0	0	0	0	0	0.11	0.34	1	1	0	600	600	0
4/29/2024 10:30	40802	EXCH_T2	0	1	1	0	0.2	0.2	-0.21	-0.42	0	0	0	0	0	0
4/29/2024 10:30	13502	MCMI_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
4/29/2024 10:30	40801	EXCH_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/29/2024 10:30	13501	MCMI_T1	0	0	0	0	0	0	0.06	0.16	0	0	0	0	0	0
4/29/2024 10:30	59301	MCAL_T1	3	4	1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
4/29/2024 10:31	44505	HAMI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/29/2024 10:31	42902	MIDD_T2	1	1	0	0.1	0.3	0.2	-0.87	-0.87	1	1	0	600	600	0
4/29/2024 10:31	44502	HAMI_T2	1	1	0	2.6	2.5	-0.1	0	0	0	0	0	0	0	0
4/29/2024 10:31	44504	HAMI_T2	0	0	0	0	0	0	-0.93	-0.85	0	0	0	0	0	0
4/29/2024 10:32	13502	MCMI_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
4/29/2024 10:32	13501	MCMI_T1	0	0	0	0	0	0	0.06	0.16	0	0	0	0	0	0
4/29/2024 10:33	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
4/29/2024 10:35	43103	SMIL_T2	18	14	-4	0.64	0.31	-0.33	0	0	0	0	0	0	0	0
4/29/2024 10:35	44601	SALE_T2	1	0	-1	0.2	0	-0.2	0.37	0.31	1	1	0	600	600	0
4/29/2024 10:35	11101	EGYP_T1	2	2	0	0.25	0	-0.25	0	0	1	1	0	1200	1200	0
4/29/2024 10:35	43102	SMIL_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/29/2024 10:35	43105	SMIL_T2	2	1	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
4/29/2024 10:35	43101	SMIL_T2	1	1	0	0.7	0.6	-0.1	-0.72	-0.63	0	0	0	0	0	0
4/29/2024 10:35	43104	SMIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/29/2024 10:36	41902	REED_T1	0	0	0	0	0	0	1.19	1.22	0	0	0	0	0	0
4/29/2024 10:37	11101	EGYP_T1	2	2	0	0.25	0	-0.25	0	0	1	1	0	1200	1200	0
4/29/2024 10:37	41902	REED_T1	0	0	0	0	0	0	1.19	1.22	0	0	0	0	0	0
4/29/2024 10:38	44601	SALE_T2	1	0	-1	0.2	0	-0.2	0.74	0.61	2	2	0	1200	1200	0
4/29/2024 10:38	13704	SCHN_T2	0	1	1	0	0.4	0.4	-0.27	-0.12	0	0	0	0	0	0
4/29/2024 10:39	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 10:39	11601	CEAL_T1	1	2	1	0.9	0.6	-0.3	0	0	1	1	0	1200	1200	0
4/29/2024 10:39	11101	EGYP_T1	2	2	0	0.25	0	-0.25	0	0	1	1	0	1200	1200	0
4/29/2024 10:40	11101	EGYP_T1	2	2	0	0.25	0	-0.25	0	0	1	1	0	1200	1200	0
4/29/2024 10:41	45501	DERR_T2	0	2	2	0	0.9	0.9	0.9	0.94	2	2	0	1800	1800	0
4/29/2024 10:41	11101	EGYP_T1	2	2	0	0.25	0	-0.25	0	0	1	1	0	1200	1200	0
4/29/2024 10:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 10:42	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 10:43	53901	HALI_T2	1	2	1	0.7	0.55	-0.15	-0.9	-0.91	0	0	0	0	0	0
4/29/2024 10:43	53903	HALI_T2	3	10	7	0.77	0.53	-0.24	0	0	0	0	0	0	0	0
4/29/2024 10:43	53902	HALI_T2	3	3	0	2.17	2.23	0.06	0	0	0	0	0	0	0	0
4/29/2024 10:43	45501	DERR_T2	0	2	2	0	0.9	0.9	0.9	0.94	2	2	0	1800	1800	0
4/29/2024 10:45	53903	HALI_T2	9	9	0	0.43	0.54	0.11	0	0	0	0	0	0	0	0
4/29/2024 10:45	53902	HALI_T2	3	3	0	2.17	2.3	0.13	-0.15	-0.13	0	0	0	0	0	0
4/29/2024 10:45	53901	HALI_T2	2	2	0	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
4/29/2024 10:49	59001	MIFF_T1	3	3	0	1.33	1.3	-0.03	0	0	0	0	0	0	0	0
4/29/2024 10:49	59002	MIFF_T1	4	4	0	0.13	0.18	0.05	0	0	0	0	0	0	0	0
4/29/2024 10:49	59003	MIFF_T1	3	3	0	0.27	0.3	0.03	-0.63	-0.58	0	0	0	0	0	0
4/29/2024 10:50	49803	UNIV_T1	1	2	1	1	0.4	-0.6	-0.93	-0.9	0	0	0	0	0	0
4/29/2024 10:50	13905	SEID_T1	0	2	2	0	0.15	0.15	0	0	1	1	0	1200	1200	0
4/29/2024 10:51	54505	ENOL_T2	2	2	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/29/2024 10:51	54502	ENOL_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
4/29/2024 10:51	54504	ENOL_T2	1	1	0	1	0.9	-0.1	-0.93	-0.89	1	1	0	600	600	0
4/29/2024 10:52	67803	WLAN_T1	0	0	0	0	0	0	-0.79	-0.75	0	0	0	0	0	0
4/29/2024 10:53	66701	STRA_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/29/2024 10:53	66703	STRA_T1	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
4/29/2024 10:55	46203	DANV_T2	5	5	0	0.24	0.32	0.08	0.58	0.54	0	0	0	0	0	0
4/29/2024 10:55	46206	DANV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/29/2024 10:56	11101	EGYP_T1	0	2	2	0	0.2	0.2	0	0	1	1	0	1200	1200	0
4/29/2024 10:58	10801	OHHI_T1	2	8	6	0.75	0.8	0.05	-1	-0.96	2	2	0	1500	1500	0
4/29/2024 10:59	46203	DANV_T2	5	5	0	0.24	0.32	0.08	0.29	0.27	0	0	0	0	0	0
4/29/2024 10:59	46206	DANV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/29/2024 11:00	60801	BUCK_T1	0	0	0	0	0	0	-0.41	-0.37	1	1	0	600	600	0
4/29/2024 11:01	28801	LAKE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 11:01	28805	LAKE_T1	1	1	0	0.4	0.5	0.1	-0.22	-0.21	0	0	0	0	0	0
4/29/2024 11:01	65503	MOJO_T2	0	1	1	0	0.1	0.1	-0.55	-0.59	1	1	0	900	900	0
4/29/2024 11:02	65503	MOJO_T2	0	1	1	0	0.1	0.1	-0.55	-0.59	1	1	0	900	900	0
4/29/2024 11:04	54601	SUMM_T2	0	1	1	0	0.2	0.2	-1.64	-1.62	2	2	0	2100	2100	0
4/29/2024 11:04	54602	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 11:04	42802	SELI_T1	0	0	0	0	0	0	-1.12	-1.18	2	2	0	1800	1800	0
4/29/2024 11:05	54602	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 11:05	59101	WALK_T2	0	0	0	0	0	0	2.27	2.38	0	0	0	0	0	0
4/29/2024 11:05	54601	SUMM_T2	0	1	1	0	0.2	0.2	-1.64	-1.62	2	2	0	2100	2100	0
4/29/2024 11:06	54601	SUMM_T2	0	1	1	0	0.2	0.2	-3.28	-3.24	4	4	0	4200	4200	0
4/29/2024 11:06	11103	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 11:06	54602	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 11:06	11101	EGYP_T1	2	4	2	1.4	0	-1.4	0	0	1	1	0	1200	1200	0
4/29/2024 11:06	11102	EGYP_T1	0	3	3	0	1.37	1.37	0	0	0	0	0	0	0	0
4/29/2024 11:08	54601	SUMM_T2	0	1	1	0	0.2	0.2	-1.62	-1.64	2	2	0	2100	2100	0
4/29/2024 11:08	54602	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 11:08	45902	AUBU_T1	1	1	0	1.2	1.3	0.1	-0.55	-0.58	1	1	0	600	600	0
4/29/2024 11:09	61103	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 11:09	59101	WALK_T2	0	0	0	0	0	0	2.38	2.03	0	0	0	0	0	0
4/29/2024 11:09	11102	EGYP_T1	0	3	3	0	1.37	1.37	0	0	0	0	0	0	0	0
4/29/2024 11:09	61101	BERK_T5	1	1	0	0.7	0.7	0	-0.74	-0.75	0	0	0	0	0	0
4/29/2024 11:09	11103	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 11:09	45902	AUBU_T1	1	1	0	1.2	1.3	0.1	-0.55	-0.58	1	1	0	600	600	0
4/29/2024 11:09	11101	EGYP_T1	2	4	2	1.4	0	-1.4	0	0	1	1	0	1200	1200	0
4/29/2024 11:10	61101	BERK_T5	1	1	0	0.7	0.7	0	-0.74	-0.75	0	0	0	0	0	0
4/29/2024 11:10	11103	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 11:10	56802	BENV_T2	7	9	2	0.41	0.49	0.08	-0.53	-0.55	0	0	0	0	0	0
4/29/2024 11:10	61103	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 11:10	56803	BENV_T1	3	4	1	0.43	0.85	0.42	0	0	0	0	0	0	0	0
4/29/2024 11:10	11102	EGYP_T1	0	3	3	0	1.37	1.37	0	0	0	0	0	0	0	0
4/29/2024 11:10	56801	BENV_T1	34	28	-6	0.67	0.4	-0.27	-2.22	-2.05	3	3	0	1800	1800	0
4/29/2024 11:10	11101	EGYP_T1	2	4	2	1.4	0	-1.4	0	0	1	1	0	1200	1200	0
4/29/2024 11:11	56801	BENV_T1	34	28	-6	0.67	0.4	-0.27	-0.74	-0.68	1	1	0	600	600	0
4/29/2024 11:11	64101	REFR_T1	1	1	0	0.3	0.6	0.3	-0.95	-0.92	0	0	0	0	0	0
4/29/2024 11:11	56803	BENV_T1	3	4	1	0.43	0.85	0.42	0	0	0	0	0	0	0	0
4/29/2024 11:12	56801	BENV_T1	34	28	-6	0.67	0.4	-0.27	-2.96	-2.73	4	4	0	2400	2400	0
4/29/2024 11:12	56803	BENV_T1	3	4	1	0.43	0.85	0.42	0	0	0	0	0	0	0	0
4/29/2024 11:13	45902	AUBU_T1	1	1	0	1.2	1.3	0.1	-0.55	-0.58	1	1	0	600	600	0
4/29/2024 11:13	56801	BENV_T1	34	28	-6	0.67	0.4	-0.27	-1.48	-1.36	2	2	0	1200	1200	0
4/29/2024 11:13	56803	BENV_T1	3	4	1	0.43	0.85	0.42	0	0	0	0	0	0	0	0
4/29/2024 11:13	14204	FALL_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
4/29/2024 11:14	56803	BENV_T1	3	4	1	0.43	0.85	0.42	0	0	0	0	0	0	0	0
4/29/2024 11:14	22601	KIMB_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
4/29/2024 11:14	11102	EGYP_T1	0	3	3	0	1.37	1.37	0	0	0	0	0	0	0	0
4/29/2024 11:14	45902	AUBU_T1	1	1	0	1.2	1.3	0.1	-0.55	-0.58	1	1	0	600	600	0
4/29/2024 11:14	56801	BENV_T1	34	28	-6	0.67	0.4	-0.27	-0.74	-0.68	1	1	0	600	600	0
4/29/2024 11:14	22602	KIMB_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
4/29/2024 11:14	11101	EGYP_T1	2	4	2	1.4	0	-1.4	0	0	1	1	0	1200	1200	0
4/29/2024 11:14	11103	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 11:15	56802	BENV_T2	8	8	0	1.55	0.61	-0.94	-0.53	-0.55	0	0	0	0	0	0
4/29/2024 11:17	64204	KINZ_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
4/29/2024 11:17	12801	MICK_T1	0	0	0	0	0	0	0.25	0.26	1	1	0	600	600	0
4/29/2024 11:17	64201	KINZ_T1	0	0	0	0	0	0	0.07	0.03	4	4	0	2100	2100	0
4/29/2024 11:17	12803	MICK_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
4/29/2024 11:19	13501	MCMI_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
4/29/2024 11:19	56501	ROCK_T2	3	3	0	0.37	0.3	-0.07	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 11:19	64204	KINZ_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/29/2024 11:19	64201	KINZ_T1	0	0	0	0	0	0	0.07	0.03	4	4	0	2100	2100	0
4/29/2024 11:19	56504	ROCK_T2	1	3	2	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/29/2024 11:19	13502	MCMI_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/29/2024 11:19	13503	MCMI_T2	1	1	0	0.5	0.8	0.3	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 11:22	11103	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 11:22	42201	SHEN_T2	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
4/29/2024 11:22	11102	EGYP_T1	0	3	3	0	1.87	1.87	0	0	0	0	0	0	0	0
4/29/2024 11:22	11101	EGYP_T1	1	3	2	0.2	0.17	-0.03	0	0	1	1	0	1200	1200	0
4/29/2024 11:24	45902	AUBU_T1	1	1	0	1.3	1	-0.3	-0.58	-0.48	1	1	0	600	600	0
4/29/2024 11:24	11101	EGYP_T1	1	3	2	0.2	0.17	-0.03	0	0	1	1	0	1200	1200	0
4/29/2024 11:24	11103	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 11:24	11102	EGYP_T1	0	3	3	0	1.87	1.87	0	0	0	0	0	0	0	0
4/29/2024 11:25	44301	BEAV_T2	1	2	1	1.3	0.6	-0.7	0.82	0.73	2	2	0	1500	1500	0
4/29/2024 11:25	45902	AUBU_T1	1	1	0	1.3	1	-0.3	-0.58	-0.48	1	1	0	600	600	0
4/29/2024 11:25	26001	WDAM_T1	1	1	0	0.8	0.5	-0.3	-0.4	-0.37	0	0	0	0	0	0
4/29/2024 11:25	61301	EARL_T1	0	0	0	0	0	0	-1.35	-1.34	2	2	0	1800	1800	0
4/29/2024 11:25	26002	WDAM_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/29/2024 11:26	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 11:26	11102	EGYP_T1	0	3	3	0	1.87	1.87	0	0	0	0	0	0	0	0
4/29/2024 11:26	41602	CLEV_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/29/2024 11:26	11101	EGYP_T1	1	3	2	0.2	0.17	-0.03	0	0	1	1	0	1200	1200	0
4/29/2024 11:26	11103	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 11:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 11:27	41602	CLEV_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/29/2024 11:28	64702	LITI_T2	0	0	0	0	0	0	-0.4	-0.28	0	0	0	0	0	0
4/29/2024 11:28	46004	BERW_T2	0	1	1	0	0.1	0.1	-0.03	0.04	0	0	0	0	0	0
4/29/2024 11:28	61302	EARL_T1	0	0	0	0	0	0	1.38	1.25	2	2	0	1800	1800	0
4/29/2024 11:28	56802	BENV_T2	8	0	0	1.55	0.61	-0.94	-0.55	-0.54	0	0	0	0	0	0
4/29/2024 11:28	46002	BERW_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/29/2024 11:29	14204	EALL_T2	0	0	0	0	0	0	-0.59	-0.56	0	0	0	0	0	0
4/29/2024 11:29	11507	FREE_T2	0	0	0	0	0	0	1.07	0.9	0	0	0	0	0	0
4/29/2024 11:29	11101	EGYP_T1	1	3	2	0.2	0.17	-0.03	0	0	1	1	0	1200	1200	0
4/29/2024 11:29	41602	CLEV_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
4/29/2024 11:29	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 11:29	11102	EGYP_T1	0	3	3	0	1.87	1.87	0	0	0	0	0	0	0	0
4/29/2024 11:29	61301	EARL_T1	0	0	0	0	0	0	-1.35	-1.34	2	2	0	1800	1800	0
4/29/2024 11:29	11103	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 11:29	45902	AUBU_T1	1	1	0	1.3	1	-0.3	-0.58	-0.48	1	1	0	600	600	0
4/29/2024 11:30	64702	LITI_T2	0	0	0	0	0	0	-0.4	-0.28	0	0	0	0	0	0
4/29/2024 11:30	45902	AUBU_T1	1	1	0	1	0.8	-0.2	-0.58	-0.48	1	1	0	600	600	0
4/29/2024 11:32	64702	LITI_T2	0	0	0	0	0	0	-0.4	-0.28	0	0	0	0	0	0
4/29/2024 11:34	46501	LOHA_T1	0	0	0	0	0	0	0.27	0.25	1	1	0	1200	1200	0
4/29/2024 11:34	64902	MILL_T2	0	0	0	0	0	0	-0.4	-0.37	1	1	0	900	900	0
4/29/2024 11:34	64904	MILL_T1	0	0	0	0	0	0	-0.18	-0.13	0	0	0	0	0	0
4/29/2024 11:34	46504	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 11:34	46506	LOHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/29/2024 11:35	14601	SWHI_T1	3	4	1	0.27	0.3	0.03	0	0	0	0	0	0	0	0
4/29/2024 11:35	14602	SWHI_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/29/2024 11:35	14603	SWHI_T1	3	4	1	0.87	0.65	-0.22	-0.85	-0.82	1	1	0	600	600	0
4/29/2024 11:36	54206	PENN_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
4/29/2024 11:37	14603	SWHI_T1	3	4	1	0.87	0.65	-0.22	-0.85	-0.82	1	1	0	600	600	0
4/29/2024 11:37	14601	SWHI_T1	3	4	1	0.27	0.3	0.03	0	0	0	0	0	0	0	0
4/29/2024 11:37	14602	SWHI_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
4/29/2024 11:37	42701	AUGU_T1	5	8	3	0.34	0.39	0.05	0	0	2	2	0	1800	1800	0
4/29/2024 11:38	20601	GRWO_T2	0	1	1	0	0	0	0.72	0.81	0	0	0	0	0	0
4/29/2024 11:38	20603	GRWO_T2	0	12	12	0	0.46	0.46	0	0	0	0	0	0	0	0
4/29/2024 11:39	67703	WERN_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/29/2024 11:39	41602	CLEV_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/29/2024 11:39	67702	WERN_T2	1	1	0	0.7	0.6	-0.1	0.06	0.06	0	0	0	0	0	0
4/29/2024 11:39	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 11:40	11103	EGYP_T1	1	5	4	0.1	0.16	0.06	0	0	0	0	0	0	0	0
4/29/2024 11:40	11101	EGYP_T1	3	3	0	0.17	0.2	0.03	0	0	1	1	0	1200	1200	0
4/29/2024 11:40	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 11:40	45902	AUBU_T1	1	1	0	1	0.8	-0.2	-0.96	-1	2	2	0	1200	1200	0
4/29/2024 11:40	11102	EGYP_T1	3	3	0	1.37	1.87	0.5	0	0	0	0	0	0	0	0
4/29/2024 11:41	13702	SCHN_T1	0	0	0	0	0	0	2.36	2.48	0	0	0	0	0	0
4/29/2024 11:42	20601	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 11:42	67702	WERN_T2	1	1	0	0.7	0.6	-0.1	0.03	0.03	0	0	0	0	0	0
4/29/2024 11:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 11:42	41602	CLEV_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/29/2024 11:42	60901	DONG_T2	4	4	0	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
4/29/2024 11:42	60902	DONG_T2	0	0	0	0	0	0	1.12	1.16	0	0	0	0	0	0
4/29/2024 11:42	67703	WERN_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/29/2024 11:42	60904	DONG_T2	2	3	1	0.25	0.33	0.08	0	0	0	0	0	0	0	0
4/29/2024 11:42	20603	GRWO_T2	0	12	12	0	0.46	0.46	-0.72	-0.51	1	1	0	900	900	0
4/29/2024 11:43	67702	WERN_T2	1	1	0	0.7	0.6	-0.1	0.03	0.03	0	0	0	0	0	0
4/29/2024 11:43	67703	WERN_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/29/2024 11:43	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 11:43	41602	CLEV_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/29/2024 11:44	67703	WERN_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/29/2024 11:44	67702	WERN_T2	1	1	0	0.7	0.6	-0.1	0.03	0.03	0	0	0	0	0	0
4/29/2024 11:45	11101	EGYP_T1	3	1	-2	0.2	0.2	0	0	0	1	1	0	1200	1200	0
4/29/2024 11:45	11102	EGYP_T1	3	0	-3	1.87	0	-1.87	0	0	0	0	0	0	0	0
4/29/2024 11:45	45902	AUBU_T1	1	0	-1	0.8	0	-0.8	-0.48	-0.5	1	1	0	600	600	0
4/29/2024 11:45	11103	EGYP_T1	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
4/29/2024 11:45	10805	CHIH_T2	1	1	0	8.6	8.3	-0.3	-0.68	-0.8	1	1	0	600	600	0
4/29/2024 11:46	56802	BENV_T2	7	7	0	0.59	0.49	-0.1	-0.54	-0.47	0	0	0	0	0	0
4/29/2024 11:46	16402	MOPO_T1	0	3	3	0	0.37	0.37	0.31	0.17	0	0	0	0	0	0
4/29/2024 11:46	16401	MOPO_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
4/29/2024 11:46	45902	AUBU_T1	1	0	-1	0.8	0	-0.8	-0.48	-0.5	1	1	0	600	600	0
4/29/2024 11:48	58401	MORO_T1	0	2	2	0	0.2	0.2	-0.43	-1.29	1	2	1	600	1500	900
4/29/2024 11:50	58401	MORO_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 11:50	17002	RIRO_T2	2	3	1	0.9	0.7	-0.2	0.74	0.81	0	0	0	0	0	0
4/29/2024 11:50	67502	WEWI_T2	3	3	0	0.73	0.7	-0.03	-0.92	-0.94	1	1	0	900	900	0
4/29/2024 11:50	56501	ROCK_T2	2	2	0	0.4	0.15	-0.25	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 11:50	42802	SELI_T1	0	0	0	0	0	0	-0.5	-0.5	1	1	0	900	900	0
4/29/2024 11:50	56504	ROCK_T2	3	1	-2	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/29/2024 11:50	58402	MORO_T1	0	0	0	0	0	0	-0.93	-1.04	3	3	0	2400	2400	0
4/29/2024 11:51	58402	MORO_T1	0	0	0	0	0	0	-1.87	-2.07	6	6	0	4800	4800	0
4/29/2024 11:51	58401	MORO_T1	0	2	2	0	0.2	0.2	-0.43	-1.29	1	2	1	600	1500	900
4/29/2024 11:52	42802	SELI_T1	0	0	0	0	0	0	-0.5	-0.5	1	1	0	900	900	0
4/29/2024 11:52	56501	ROCK_T2	2	2	0	0.4	0.15	-0.25	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 11:52	45602	WOOL_T1	9	11	2	0.53	0.55	0.02	0.64	0.68	0	0	0	0	0	0
4/29/2024 11:52	13702	SCHN_T1	0	0	0	0	0	0	1.18	1.24	0	0	0	0	0	0
4/29/2024 11:52	56504	ROCK_T2	3	1	-2	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/29/2024 11:53	41601	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 11:53	41602	CLEV_T1	1	1	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
4/29/2024 11:53	64101	REFR_T1	2	1	-1	0.2	0.5	0.3	-0.94	-0.93	0	0	0	0	0	0
4/29/2024 11:54	41602	CLEV_T1	1	1	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
4/29/2024 11:54	60803	BUCK_T1	0	7	7	0	0.2	0.2	-1.09	-1.05	1	1	0	600	600	0
4/29/2024 11:54	41601	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 11:55	54502	ENOL_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/29/2024 11:55	60803	BUCK_T1	0	7	7	0	0.2	0.2	-1.09	-1.05	1	1	0	600	600	0
4/29/2024 11:55	60605	NCOL_T2	9	11	2	0.91	0.81	-0.1	0	0	0	0	0	0	0	0
4/29/2024 11:55	54504	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
4/29/2024 11:55	54505	ENOL_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
4/29/2024 11:55	54503	ENOL_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/29/2024 11:55	67502	WEWI_T2	3	3	0	0.73	0.7	-0.03	-0.94	-0.99	1	1	0	900	900	0
4/29/2024 11:56	44301	BEAV_T2	2	8	6	0.6	0.3	-0.3	0.63	-0.14	2	2	0	1500	1500	0
4/29/2024 11:56	64101	REFR_T1	2	1	-1	0.2	0.5	0.3	-0.94	-0.93	0	0	0	0	0	0
4/29/2024 11:56	60803	BUCK_T1	0	7	7	0	0.2	0.2	-1.09	-1.05	1	1	0	600	600	0
4/29/2024 11:57	45501	DERR_T2	2	3	1	1	0.67	-0.33	0	0	0	0	0	0	0	0
4/29/2024 11:57	45502	DERR_T2	1	4	3	0.2	1.7	1.5	0.47	0.33	0	1	1	0	300	300
4/29/2024 11:58	41602	CLEV_T1	1	1	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
4/29/2024 11:58	11404	FARM_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
4/29/2024 11:58	41601	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 11:58	11402	FARM_T1	2	4	2	0.35	0.4	0.05	0	0	0	0	0	0	0	0
4/29/2024 11:58	11405	FARM_T1	0	1	1	0	0.3	0.3	-0.59	-0.57	1	1	0	1200	1200	0
4/29/2024 11:58	11407	FARM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 12:01	11507	FREE_T2	1	0	-1	0.1	0	-0.1	1.05	0.91	0	0	0	0	0	0
4/29/2024 12:05	47802	MOCA_T2	1	1	0	0.1	0.5	0.4	0.58	0.48	0	0	0	0	0	0
4/29/2024 12:06	56504	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/29/2024 12:06	56501	ROCK_T2	2	2	0	0.15	0.1	-0.05	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 12:08	56501	ROCK_T2	2	2	0	0.15	0.1	-0.05	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 12:08	56504	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/29/2024 12:09	67703	WERN_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
4/29/2024 12:09	60101	CDCA_T1	2	2	0	0.15	0.4	0.25	0.59	0.62	0	0	0	0	0	0
4/29/2024 12:09	67702	WERN_T2	1	1	0	0.3	0.7	0.4	0.04	0.08	0	0	0	0	0	0
4/29/2024 12:10	45501	DERR_T2	2	3	1	0.95	0.67	-0.28	0.65	0.75	2	2	0	1800	1800	0
4/29/2024 12:10	41502	FAIR_T2	1	0	-1	0.3	0	-0.3	-0.63	-0.64	0	0	0	0	0	0
4/29/2024 12:10	45502	DERR_T2	3	5	2	0.83	0	-0.83	0	0	0	0	0	0	0	0
4/29/2024 12:11	11101	EGYP_T1	1	1	0	0.2	0	-0.2	0	0	1	1	0	1200	1200	0
4/29/2024 12:11	11103	EGYP_T1	5	0	-5	0.16	0	-0.16	0	0	0	0	0	0	0	0
4/29/2024 12:12	45501	DERR_T2	2	3	1	0.95	0.67	-0.28	0.65	0.75	2	2	0	1800	1800	0
4/29/2024 12:12	44505	HAMI_T2	4	4	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
4/29/2024 12:12	45502	DERR_T2	3	5	2	0.83	0	-0.83	0	0	0	0	0	0	0	0
4/29/2024 12:12	60101	CDCA_T1	2	2	0	0.15	0.4	0.25	0.59	0.62	0	0	0	0	0	0
4/29/2024 12:12	44503	HAMI_T2	0	0	0	0	0	0	-1.16	-1.14	1	1	0	1200	1200	0
4/29/2024 12:12	60803	BUCK_T1	0	8	8	0	0.21	0.21	0	0	0	0	0	0	0	0
4/29/2024 12:12	60801	BUCK_T1	0	2	2	0	0.2	0.2	-0.67	-0.64	1	1	0	600	600	0
4/29/2024 12:12	44502	HAMI_T2	1	1	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
4/29/2024 12:15	64902	MILL_T2	0	0	0	0	0	0	-0.37	-0.31	1	1	0	900	900	0
4/29/2024 12:15	63602	LETO_T1	1	0	-1	0.8	0	-0.8	0.06	0.02	0	0	0	0	0	0
4/29/2024 12:15	41504	FAIR_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
4/29/2024 12:15	28805	LAKE_T1	1	1	0	0.2	0.4	0.2	-0.21	-0.21	0	0	0	0	0	0
4/29/2024 12:15	28801	LAKE_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/29/2024 12:15	63601	LETO_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
4/29/2024 12:16	12807	MICK_T1	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
4/29/2024 12:16	46803	HEPB_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
4/29/2024 12:16	63602	LETO_T1	1	0	-1	0.8	0	-0.8	0.06	0.02	0	0	0	0	0	0
4/29/2024 12:16	12803	MICK_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
4/29/2024 12:16	46801	HEPB_T2	2	2	0	0.55	0.4	-0.15	0.76	0.74	0	0	0	0	0	0
4/29/2024 12:16	63601	LETO_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/29/2024 12:17	60803	BUCK_T1	7	7	0	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
4/29/2024 12:17	64902	MILL_T2	0	0	0	0	0	0	-0.37	-0.31	1	1	0	900	900	0
4/29/2024 12:17	60801	BUCK_T1	0	2	2	0	0.2	0.2	-0.67	-0.64	1	1	0	600	600	0
4/29/2024 12:17	46802	HEPB_T1	2	1	-1	0.5	0.7	0.2	-0.15	-0.14	0	0	0	0	0	0
4/29/2024 12:18	41205	KENM_T2	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
4/29/2024 12:18	46802	HEPB_T1	2	1	-1	0.5	0.7	0.2	-0.15	-0.14	0	0	0	0	0	0
4/29/2024 12:19	48302	ORWI_T2	2	2	0	1	1	0	0.17	0.12	0	0	0	0	0	0
4/29/2024 12:22	64101	REFR_T1	1	2	1	0.4	0.3	-0.1	-0.93	-0.93	0	0	0	0	0	0
4/29/2024 12:23	14801	TREI_T2	1	3	2	0.3	0.7	0.4	0	0	0	0	0	0	0	0
4/29/2024 12:23	15103	UPHA_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
4/29/2024 12:23	14802	TREI_T2	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
4/29/2024 12:24	64101	REFR_T1	1	2	1	0.4	0.3	-0.1	-0.93	-0.81	0	0	0	0	0	0
4/29/2024 12:25	60605	NCOL_T2	11	36	25	1.05	0.47	-0.58	0	0	0	0	0	0	0	0
4/29/2024 12:26	20403	ASHF_T2	0	10	10	0	0.54	0.54	0	0	0	0	0	0	0	0
4/29/2024 12:26	20401	ASHF_T2	2	3	1	0.2	0.5	0.3	-0.92	-0.9	0	0	0	0	0	0
4/29/2024 12:26	14801	TREI_T2	1	3	2	0.3	0.7	0.4	0.52	0.55	0	0	0	0	0	0
4/29/2024 12:26	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 12:27	53501	EVIL_T2	2	1	-1	0.55	0.2	-0.35	0.45	0.54	1	1	0	600	600	0
4/29/2024 12:28	46004	BERW_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
4/29/2024 12:28	46002	BERW_T2	1	2	1	0.3	0.45	0.15	-1.29	-1.23	1	1	0	900	900	0
4/29/2024 12:31	25502	MADI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 12:31	25501	MADI_T1	2	2	0	1	0.55	-0.45	0	0	0	0	0	0	0	0
4/29/2024 12:31	25503	MADI_T1	0	1	1	0	0.2	0.2	-0.99	-0.96	0	0	0	0	0	0
4/29/2024 12:34	64802	MONE_T2	2	2	0	0.15	0.25	0.1	0.06	0.11	0	0	0	0	0	0
4/29/2024 12:34	57002	WHIH_T2	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
4/29/2024 12:34	57006	WHIH_T2	2	2	0	0.95	0.8	-0.15	0	0	0	0	0	0	0	0
4/29/2024 12:35	57401	SPAN_T1	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
4/29/2024 12:35	57006	WHIH_T2	2	2	0	0.95	0.8	-0.15	0	0	0	0	0	0	0	0
4/29/2024 12:35	57403	SPAN_T1	1	1	0	0.7	0.5	-0.2	0.12	0.13	0	0	0	0	0	0
4/29/2024 12:35	12803	MICK_T1	1	1	0	1.5	0.8	-0.7	0	0	0	0	0	0	0	0
4/29/2024 12:35	57004	WHIH_T2	0	0	0	0	0	0	-0.18	-0.14	0	0	0	0	0	0
4/29/2024 12:35	12802	MICK_T1	0	0	0	0	0	0	-0.11	-1.42	0	0	0	0	0	0
4/29/2024 12:36	57404	SPAN_T2	0	0	0	0	0	0	-0.1	-0.16	1	1	0	1200	1200	0
4/29/2024 12:37	57006	WHIH_T2	2	2	0	0.95	0.8	-0.15	0	0	0	0	0	0	0	0
4/29/2024 12:37	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 12:37	57002	WHIH_T2	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
4/29/2024 12:37	66501	SMAN_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
4/29/2024 12:37	66505	SMAN_T2	0	0	0	0	0	0	0.74	0.69	2	2	0	1500	1500	0
4/29/2024 12:37	66502	SMAN_T2	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/29/2024 12:38	64101	REFR_T1	1	2	1	0.3	0.7	0.4	-0.81	-0.78	0	0	0	0	0	0
4/29/2024 12:38	13302	ORVI_T2	2	2	0	0.8	0.85	0.05	1.76	1.76	0	0	0	0	0	0
4/29/2024 12:39	57006	WHIH_T2	2	2	0	0.95	0.8	-0.15	-0.31	-0.36	0	0	0	0	0	0
4/29/2024 12:42	24901	WHHA_T1	1	2	1	0.8	0.65	-0.15	0.51	0.54	0	0	0	0	0	0
4/29/2024 12:43	24105	EHAZ_T1	5	5	0	5.48	6.75	1.27	0	0	0	0	0	0	0	0
4/29/2024 12:43	24104	EHAZ_T1	3	4	1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
4/29/2024 12:43	24101	EHAZ_T1	9	4	-5	0.19	0.2	0.01	0	0	0	0	0	0	0	0
4/29/2024 12:43	24102	EHAZ_T1	1	0	-1	0.5	0	-0.5	-0.76	-0.77	0	0	0	0	0	0
4/29/2024 12:45	45801	HEGI_T1	0	0	0	0	0	0	0.04	0.08	1	1	0	900	900	0
4/29/2024 12:46	45801	HEGI_T1	0	0	0	0	0	0	0.04	0.08	1	1	0	900	900	0
4/29/2024 12:47	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
4/29/2024 12:47	64203	KINZ_T1	1	1	0	0.2	0	-0.2	0.26	0.17	3	3	0	2100	2100	0
4/29/2024 12:49	47402	PENS_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/29/2024 12:49	47401	PENS_T1	3	19	16	0.27	0.51	0.24	0.22	0.31	0	0	0	0	0	0
4/29/2024 12:49	47403	PENS_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
4/29/2024 12:51	43105	SMIL_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
4/29/2024 12:51	43101	SMIL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
4/29/2024 12:51	43103	SMIL_T2	2	4	2	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
4/29/2024 12:51	43108	SMIL_T2	0	1	1	0	0	0	0.33	0.36	0	0	0	0	0	0
4/29/2024 12:52	42701	AUGU_T1	2	2	0	0.45	0.4	-0.05	0	0	2	2	0	1800	1800	0
4/29/2024 12:54	57003	WHIH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 12:54	57006	WHIH_T2	2	1	-1	0.8	1	0.2	-0.36	-0.3	0	0	0	0	0	0
4/29/2024 12:54	10801	CHHI_T1	2	3	1	0.15	0.5	0.35	-0.91	-0.84	2	2	0	1500	1500	0
4/29/2024 12:54	65901	SAKR_T2	1	1	0	7.3	7.7	0.4	-0.86	-0.81	2	2	0	1500	1500	0
4/29/2024 12:55	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
4/29/2024 12:56	15001	BLMO_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/29/2024 12:59	61803	EELI_T2	0	2	2	0	0.2	0.2	0.78	0.83	1	1	0	600	600	0
4/29/2024 12:59	57006	WHIH_T2	2	1	-1	0.8	1	0.2	-0.36	-0.3	0	0	0	0	0	0
4/29/2024 12:59	61801	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 12:59	57003	WHIH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 12:59	14802	TREI_T2	0	0	0	0	0	0	0.65	0.6	0	0	0	0	0	0
4/29/2024 12:59	14801	TREI_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
4/29/2024 13:00	41502	FAIR_T2	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
4/29/2024 13:00	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
4/29/2024 13:06	57401	SPAN_T1	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/29/2024 13:06	57403	SPAN_T1	0	1	1	0	0.6	0.6	0.12	0.13	0	0	0	0	0	0
4/29/2024 13:09	64101	REFR_T1	2	10	8	0.7	0.46	-0.24	-0.66	-0.69	0	0	0	0	0	0
4/29/2024 13:10	57403	SPAN_T1	0	1	1	0	0.6	0.6	0.13	0.14	0	0	0	0	0	0
4/29/2024 13:10	57401	SPAN_T1	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/29/2024 13:11	41801	GOCI_T2	6	4	-2	0.48	0.48	0	0	0	0	0	0	0	0	0
4/29/2024 13:13	51603	DUKE_T1	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
4/29/2024 13:13	41801	GOCI_T2	6	4	-2	0.48	0.48	0	0	0	0	0	0	0	0	0
4/29/2024 13:19	40601	PIGR_T1	37	14	-23	0.33	0.46	0.13	0	0	0	0	0	0	0	0
4/29/2024 13:19	40602	PIGR_T1	1	1	0	0.1	0.2	0.1	0.16	0.22	1	1	0	600	600	0
4/29/2024 13:21	66502	SMAN_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
4/29/2024 13:21	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 13:21	66501	SMAN_T2	2	2	0	0.35	0.95	0.6	0	0	0	0	0	0	0	0
4/29/2024 13:21	66505	SMAN_T2	0	0	0	0	0	0	0.6	0.76	3	2	-1	1700	1500	-200
4/29/2024 13:22	66504	SMAN_T2	0	1	1	0	0.1	0.1	-1.86	-1.79	2	2	0	2400	2400	0
4/29/2024 13:22	66501	SMAN_T2	2	2	0	0.35	0.95	0.6	0	0	0	0	0	0	0	0
4/29/2024 13:22	66502	SMAN_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
4/29/2024 13:22	44202	POIN_T2	0	0	0	0	0	0	-0.39	-0.43	1	1	0	1200	1200	0
4/29/2024 13:24	43102	SMIL_T2	0	0	0	0	0	0	-0.65	-0.67	1	1	0	600	600	0
4/29/2024 13:24	43101	SMIL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/29/2024 13:24	64101	REFR_T1	5	10	5	0.46	0.49	0.03	-1.37	-1.39	0	0	0	0	0	0
4/29/2024 13:24	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 13:24	14801	TREI_T2	1	2	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/29/2024 13:24	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 13:24	60605	NCOL_T2	161	330	169	0.64	0.5	-0.14	0	0	0	0	0	0	0	0
4/29/2024 13:24	43108	SMIL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/29/2024 13:24	14802	TREI_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
4/29/2024 13:24	43103	SMIL_T2	1	5	4	0.5	0.36	-0.14	0	0	0	0	0	0	0	0
4/29/2024 13:24	45902	AUBU_T1	0	0	0	0	0	0	-0.59	-0.65	1	1	0	600	600	0
4/29/2024 13:24	41602	CLEV_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/29/2024 13:25	45902	AUBU_T1	0	0	0	0	0	0	-1.19	-1.29	2	2	0	1200	1200	0
4/29/2024 13:25	64101	REFR_T1	5	10	5	0.46	0.49	0.03	-0.69	-0.7	0	0	0	0	0	0
4/29/2024 13:26	46203	DANV_T2	4	175	171	0.45	0.57	0.12	-0.89	-0.87	0	0	0	0	0	0
4/29/2024 13:26	29401	BELT_T1	1	2	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/29/2024 13:26	29402	BELT_T1	1	6	5	6.9	1.63	-5.27	0	0	0	0	0	0	0	0
4/29/2024 13:27	67605	WARW_T1	8	6	-2	0.51	0.43	-0.08	-0.9	-0.78	0	0	0	0	0	0
4/29/2024 13:27	41602	CLEV_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/29/2024 13:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 13:27	67603	WARW_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
4/29/2024 13:27	64101	REFR_T1	5	10	5	0.46	0.49	0.03	-0.69	-0.7	0	0	0	0	0	0
4/29/2024 13:28	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 13:28	67603	WARW_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
4/29/2024 13:28	46203	DANV_T2	4	175	171	0.45	0.57	0.12	-0.89	-0.87	0	0	0	0	0	0
4/29/2024 13:28	67605	WARW_T1	8	6	-2	0.51	0.43	-0.08	-0.9	-0.78	0	0	0	0	0	0
4/29/2024 13:28	41602	CLEV_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/29/2024 13:29	67603	WARW_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
4/29/2024 13:29	67605	WARW_T1	8	6	-2	0.51	0.43	-0.08	-0.9	-0.78	0	0	0	0	0	0
4/29/2024 13:30	45902	AUBU_T1	0	0	0	0	0	0	-0.59	-0.65	1	1	0	600	600	0
4/29/2024 13:30	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
4/29/2024 13:31	67605	WARW_T1	6	4	-2	0.43	0.4	-0.03	-0.9	-0.78	0	0	0	0	0	0
4/29/2024 13:31	46203	DANV_T2	42	189	147	0.41	0.91	0.5	-0.89	-0.87	0	0	0	0	0	0
4/29/2024 13:31	45902	AUBU_T1	0	0	0	0	0	0	-0.59	-0.65	1	1	0	600	600	0
4/29/2024 13:31	67603	WARW_T1	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
4/29/2024 13:31	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
4/29/2024 13:32	67605	WARW_T1	6	4	-2	0.43	0.4	-0.03	-0.9	-0.78	0	0	0	0	0	0
4/29/2024 13:32	67603	WARW_T1	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
4/29/2024 13:34	65004	NEFF_T2	2	1	-1	0.25	0.2	-0.05	-0.72	-0.72	1	1	0	600	600	0
4/29/2024 13:34	65005	NEFF_T2	2	1	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/29/2024 13:34	65002	NEFF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/29/2024 13:34	41902	REED_T1	0	1	1	0	0	0	1.13	1.21	0	0	0	0	0	0
4/29/2024 13:34	65003	NEFF_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/29/2024 13:35	40602	PIGR_T1	1	1	0	0.4	0	-0.4	0.22	0.18	1	1	0	600	600	0
4/29/2024 13:35	41902	REED_T1	0	1	1	0	0	0	1.13	1.21	0	0	0	0	0	0
4/29/2024 13:35	58402	MORO_T1	0	0	0	0	0	0	-0.88	-0.83	3	3	0	2400	2400	0
4/29/2024 13:35	40601	PIGR_T1	14	6	-8	0.46	0.35	-0.11	0	0	0	0	0	0	0	0
4/29/2024 13:36	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.21	2	2	0	1500	1500	0
4/29/2024 13:37	14802	TREI_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
4/29/2024 13:37	14801	TREI_T2	2	1	-1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
4/29/2024 13:38	44301	BEAV_T2	5	4	-1	0.46	0.33	-0.13	0.85	0.85	2	2	0	1500	1500	0
4/29/2024 13:38	64101	REFR_T1	10	12	2	0.49	0.45	-0.04	-0.7	-0.67	0	0	0	0	0	0
4/29/2024 13:39	64101	REFR_T1	10	12	2	0.49	0.45	-0.04	-1.39	-1.35	0	0	0	0	0	0
4/29/2024 13:40	60605	NCOL_T2	275	288	13	0.55	0.49	-0.06	0	0	0	0	0	0	0	0
4/29/2024 13:41	23902	EFMO_T2	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
4/29/2024 13:41	10801	CHHI_T1	5	34	29	0.58	0.31	-0.27	-1.61	-1.11	3	2	-1	2100	1500	-600
4/29/2024 13:42	10801	CHHI_T1	5	34	29	0.58	0.31	-0.27	-1.61	-1.11	3	2	-1	2100	1500	-600
4/29/2024 13:42	45901	AUBU_T1	0	0	0	0	0	0	2.41	2.42	0	0	0	0	0	0
4/29/2024 13:42	45501	DERR_T2	2	3	1	0.6	0.47	-0.13	0.94	0.93	2	2	0	1800	1800	0
4/29/2024 13:43	45501	DERR_T2	2	3	1	0.6	0.47	-0.13	0.94	0.93	2	2	0	1800	1800	0
4/29/2024 13:44	67603	WARW_T1	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
4/29/2024 13:44	67605	WARW_T1	6	4	-2	0.43	0.4	-0.03	-0.78	-0.83	0	0	0	0	0	0
4/29/2024 13:47	67603	WARW_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
4/29/2024 13:47	67605	WARW_T1	4	2	-2	0.4	0.45	0.05	-0.78	-0.83	0	0	0	0	0	0
4/29/2024 13:48	67605	WARW_T1	4	2	-2	0.4	0.45	0.05	-0.78	-0.83	0	0	0	0	0	0
4/29/2024 13:48	67603	WARW_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
4/29/2024 13:49	60501	NMAN_T2	4	4	0	3.4	3.6	0.2	0	0	0	0	0	0	0	0
4/29/2024 13:49	60502	NMAN_T2	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
4/29/2024 13:49	60504	NMAN_T2	3	3	0	1	0.73	-0.27	0	0	0	0	0	0	0	0
4/29/2024 13:52	11101	EGYP_T1	6	7	1	0.68	0.38	-0.3	0	0	1	1	0	1200	1200	0
4/29/2024 13:52	67603	WARW_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
4/29/2024 13:52	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/29/2024 13:52	67605	WARW_T1	4	2	-2	0.4	0.45	0.05	-0.78	-0.83	0	0	0	0	0	0
4/29/2024 13:53	40303	TAMA_T3	2	2	0	0.6	0.65	0.05	0.98	2.9	0	0	0	0	0	0
4/29/2024 13:53	40302	TAMA_T3	8	9	1	0.48	0.5	0.02	0	0	0	0	0	0	0	0
4/29/2024 13:53	45602	WOOL_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
4/29/2024 13:53	45601	WOOL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/29/2024 13:53	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 13:55	45902	AUBU_T1	0	1	1	0	0.5	0.5	-0.79	-0.72	1	1	0	600	600	0
4/29/2024 13:56	24101	EHAZ_T1	1	14	13	0.4	0.45	0.05	0	0	0	0	0	0	0	0
4/29/2024 13:56	24104	EHAZ_T1	1	3	2	0.1	0.33	0.23	-2.16	-2.14	1	1	0	1200	1200	0
4/29/2024 13:56	45902	AUBU_T1	0	1	1	0	0.5	0.5	-0.79	-0.72	1	1	0	600	600	0
4/29/2024 13:56	24105	EHAZ_T1	4	4	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
4/29/2024 13:56	24102	EHAZ_T1	3	6	3	1.5	0	-1.5	0	0	0	0	0	0	0	0
4/29/2024 13:57	45902	AUBU_T1	0	1	1	0	0.5	0.5	-0.79	-0.72	1	1	0	600	600	0
4/29/2024 13:59	40101	HUNT_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
4/29/2024 14:01	45902	AUBU_T1	0	1	1	0	0.5	0.5	-0.79	-0.72	1	1	0	600	600	0
4/29/2024 14:01	42401	GIMA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/29/2024 14:02	45902	AUBU_T1	0	1	1	0	0.5	0.5	-0.79	-0.72	1	1	0	600	600	0
4/29/2024 14:02	55002	NEWP_T1	11	12	1	0.58	0.82	0.24	-0.1	-0.11	0	0	0	0	0	0
4/29/2024 14:04	55003	NEWP_T2	8	14	6	0.31	0.4	0.09	0.1	0.13	0	0	0	0	0	0
4/29/2024 14:04	54701	NEBL_T1	4	6	2	0.35	0.28	-0.07	0	0	1	1	0	600	600	0
4/29/2024 14:05	54701	NEBL_T1	4	6	2	0.35	0.28	-0.07	0	0	1	1	0	600	600	0
4/29/2024 14:06	55002	NEWP_T1	11	12	1	0.58	0.82	0.24	-0.1	-0.11	0	0	0	0	0	0
4/29/2024 14:06	47402	PENS_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/29/2024 14:06	47401	PENS_T1	2	2	0	0.4	0.35	-0.05	0.18	0.33	0	0	0	0	0	0
4/29/2024 14:06	47403	PENS_T1	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
4/29/2024 14:07	47403	PENS_T1	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
4/29/2024 14:07	41902	REED_T1	0	1	1	0	0.2	0.2	1.27	1.32	0	0	0	0	0	0
4/29/2024 14:07	45902	AUBU_T1	0	1	1	0	0.5	0.5	-0.79	-0.72	1	1	0	600	600	0
4/29/2024 14:07	47402	PENS_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
4/29/2024 14:07	47401	PENS_T1	2	2	0	0.4	0.35	-0.05	0.18	0.33	0	0	0	0	0	0
4/29/2024 14:11	13704	SCHN_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
4/29/2024 14:12	45902	AUBU_T1	0	1	1	0	0.5	0.5	-0.72	-0.68	1	1	0	600	600	0
4/29/2024 14:13	45902	AUBU_T1	0	1	1	0	0.5	0.5	-0.72	-0.68	1	1	0	600	600	0
4/29/2024 14:17	45902	AUBU_T1	1	1	0	0.5	0.5	0	-0.72	-0.68	1	1	0	600	600	0
4/29/2024 14:18	51004	NHAR_T1	2	1	-1	3.55	6.6	3.05	-0.2	-0.2	0	0	0	0	0	0
4/29/2024 14:19	65502	MOJO_T2	0	0	0	0	0	0	-0.36	-0.29	1	1	0	900	900	0
4/29/2024 14:20	12402	MILF_T1	1	15	14	3.6	1.3	-2.3	0.74	0.76	0	0	0	0	0	0
4/29/2024 14:22	45902	AUBU_T1	1	1	0	0.5	0.5	0	-1.45	-1.37	2	2	0	1200	1200	0
4/29/2024 14:23	60605	NCOL_T2	482	518	36	0.64	0.64	0	0	0	0	0	0	0	0	0
4/29/2024 14:23	42903	MIDD_T2	0	0	0	0	0	0	0.75	0.8	1	1	0	1200	1200	0
4/29/2024 14:23	67201	TEHI_T1	15	22	7	0.54	0.5	-0.04	0	0	0	0	0	0	0	0
4/29/2024 14:23	45902	AUBU_T1	1	1	0	0.5	0.5	0	-0.68	-0.67	1	1	0	600	600	0
4/29/2024 14:23	67203	TEHI_T1	0	1	1	0	0.5	0.5	1.15	1.12	2	3	1	1200	2100	900
4/29/2024 14:25	27502	WEIS_T2	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
4/29/2024 14:25	27503	WEIS_T2	2	8	6	0.4	0.16	-0.24	0	0	0	0	0	0	0	0
4/29/2024 14:26	13701	SCHN_T2	0	0	0	0	0	0	0.54	0.55	1	1	0	600	600	0
4/29/2024 14:26	51603	DUKE_T1	0	0	0	0	0	0	0.12	0.02	0	0	0	0	0	0
4/29/2024 14:26	41801	GOCI_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
4/29/2024 14:26	60605	NCOL_T2	482	518	36	0.64	0.64	0	0	0	0	0	0	0	0	0
4/29/2024 14:27	64101	REFR_T1	4	3	-1	0.43	0.37	-0.06	-0.65	-0.64	0	0	0	0	0	0
4/29/2024 14:27	60605	NCOL_T2	482	518	36	0.64	0.64	0	0	0	0	0	0	0	0	0
4/29/2024 14:28	45902	AUBU_T1	1	1	0	0.5	0.5	0	-1.37	-1.34	2	2	0	1200	1200	0
4/29/2024 14:28	51604	DUKE_T2	1	2	1	0.1	0.3	0.2	-1.07	-1.09	1	1	0	900	900	0
4/29/2024 14:28	64101	REFR_T1	4	3	-1	0.43	0.37	-0.06	-0.65	-0.64	0	0	0	0	0	0
4/29/2024 14:30	14205	EALL_T2	0	0	0	0	0	0	0.2	0.12	0	0	0	0	0	0
4/29/2024 14:31	64101	REFR_T1	3	3	0	1.07	0.3	-0.77	-0.65	-0.64	0	0	0	0	0	0
4/29/2024 14:32	67605	WARW_T1	2	2	0	0.5	0.35	-0.15	-0.84	-0.86	0	0	0	0	0	0
4/29/2024 14:32	67603	WARW_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/29/2024 14:33	46801	HEPB_T2	0	0	0	0	0	0	0.84	0.82	0	0	0	0	0	0
4/29/2024 14:34	43108	SMIL_T2	2	1	-1	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
4/29/2024 14:34	54206	PENN_T2	0	0	0	0	0	0	0.26	0.22	0	0	0	0	0	0
4/29/2024 14:34	43102	SMIL_T2	0	0	0	0	0	0	-1.3	-1.28	2	2	0	1200	1200	0
4/29/2024 14:34	13606	RICH_T2	1	1	0	8.2	8.3	0.1	1.7	1.66	0	0	0	0	0	0
4/29/2024 14:34	54202	PENN_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
4/29/2024 14:37	67605	WARW_T1	2	2	0	0.5	0.35	-0.15	-0.84	-0.86	0	0	0	0	0	0
4/29/2024 14:37	67603	WARW_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/29/2024 14:39	64101	REFR_T1	3	3	0	1.07	0.3	-0.77	-0.64	-0.69	0	0	0	0	0	0
4/29/2024 14:40	64101	REFR_T1	3	3	0	1.07	0.3	-0.77	-0.64	-0.69	0	0	0	0	0	0
4/29/2024 14:41	61702	ELIZ_T2	0	0	0	0	0	0	-1.65	-1.72	2	2	0	1500	1500	0
4/29/2024 14:42	60605	NCOL_T2	506	524	18	0.71	0.63	-0.08	0	0	0	0	0	0	0	0
4/29/2024 14:42	41801	GOCI_T2	2	1	-1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
4/29/2024 14:43	60605	NCOL_T2	506	524	18	0.71	0.63	-0.08	0	0	0	0	0	0	0	0
4/29/2024 14:43	64101	REFR_T1	3	3	0	1.07	0.3	-0.77	-1.28	-1.38	0	0	0	0	0	0
4/29/2024 14:43	63304	GREE_T1	0	0	0	0	0	0	-1.03	-0.99	0	0	0	0	0	0
4/29/2024 14:44	63202	MGTN_T2	0	0	0	0	0	0	-0.9	-0.72	1	1	0	900	900	0
4/29/2024 14:45	63304	GREE_T1	0	0	0	0	0	0	-1.03	-0.99	0	0	0	0	0	0
4/29/2024 14:46	63803	HEMP_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
4/29/2024 14:46	63804	HEMP_T1	1	2	1	6.6	3.3	-3.3	0	0	0	0	0	0	0	0
4/29/2024 14:46	63801	HEMP_T1	1	2	1	0.2	0.2	0	-0.39	-0.35	1	1	0	900	900	0
4/29/2024 14:46	41801	GOCI_T2	1	2	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
4/29/2024 14:47	63304	GREE_T1	0	0	0	0	0	0	-1.03	-0.99	0	0	0	0	0	0
4/29/2024 14:52	67801	WLAN_T1	0	0	0	0	0	0	0.15	0.04	0	0	0	0	0	0
4/29/2024 14:54	45902	AUBU_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
4/29/2024 14:54	45901	AUBU_T1	0	0	0	0	0	0	2.48	2.4	0	0	0	0	0	0
4/29/2024 14:57	60101	COCA_T1	0	2	2	0	0.1	0.1	0.71	0.68	0	0	0	0	0	0
4/29/2024 15:05	48302	ORWI_T2	2	2	0	1.45	1.5	0.05	0.27	0.17	0	0	0	0	0	0
4/29/2024 15:05	48303	ORWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 15:06	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 15:06	56501	ROCK_T2	2	2	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
4/29/2024 15:07	48303	ORWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 15:07	54602	SUMM_T2	0	0	0	0	0	0	-2.09	-2.1	1	1	0	600	600	0
4/29/2024 15:07	56501	ROCK_T2	2	2	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
4/29/2024 15:07	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 15:07	48302	ORWI_T2	2	2	0	1.45	1.5	0.05	0.27	0.17	0	0	0	0	0	0
4/29/2024 15:08	23002	SAJO_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
4/29/2024 15:08	23001	SAJO_T1	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
4/29/2024 15:09	45902	AUBU_T1	1	0	-1	0.6	0	-0.6	-0.61	-0.68	1	1	0	600	600	0
4/29/2024 15:10	45902	AUBU_T1	1	0	-1	0.6	0	-0.6	-1.22	-1.37	2	2	0	1200	1200	0
4/29/2024 15:10	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 15:11	11103	EGYP_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
4/29/2024 15:11	11102	EGYP_T1	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 15:11	11101	EGYP_T1	1	4	3	0.2	0.43	0.23	0	0	0	0	0	0	0	0
4/29/2024 15:12	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 15:12	53903	HALI_T2	2	2	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
4/29/2024 15:12	11101	EGYP_T1	1	4	3	0.2	0.43	0.23	0	0	0	0	0	0	0	0
4/29/2024 15:12	53902	HALI_T2	1	3	2	4.3	1.87	-2.43	0	0	0	0	0	0	0	0
4/29/2024 15:12	11103	EGYP_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
4/29/2024 15:12	53901	HALI_T2	1	1	0	0.1	0.8	0.7	-1.26	-1.29	0	0	0	0	0	0
4/29/2024 15:13	11101	EGYP_T1	1	4	3	0.2	0.43	0.23	0	0	0	0	0	0	0	0
4/29/2024 15:13	11102	EGYP_T1	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 15:14	53901	HALI_T2	1	1	0	0.1	0.8	0.7	-2.53	-2.58	0	0	0	0	0	0
4/29/2024 15:14	53903	HALI_T2	2	2	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
4/29/2024 15:14	41801	GOCI_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
4/29/2024 15:14	53902	HALI_T2	1	3	2	4.3	1.87	-2.43	0	0	0	0	0	0	0	0
4/29/2024 15:15	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.61	-0.68	1	1	0	600	600	0
4/29/2024 15:16	53901	HALI_T2	1	1	0	0.8	0.5	-0.3	-1.26	-1.29	0	0	0	0	0	0
4/29/2024 15:16	53902	HALI_T2	2	3	1	2.55	1.83	-0.72	0	0	0	0	0	0	0	0
4/29/2024 15:16	53903	HALI_T2	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
4/29/2024 15:16	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.61	-0.68	1	1	0	600	600	0
4/29/2024 15:17	53903	HALI_T2	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
4/29/2024 15:17	53902	HALI_T2	2	3	1	2.55	1.83	-0.72	0	0	0	0	0	0	0	0
4/29/2024 15:17	53901	HALI_T2	1	1	0	0.8	0.5	-0.3	-1.26	-1.29	0	0	0	0	0	0
4/29/2024 15:18	67605	WARW_T1	0	0	0	0	0	0	-0.83	-0.78	0	0	0	0	0	0
4/29/2024 15:22	67605	WARW_T1	0	0	0	0	0	0	-0.83	-0.78	0	0	0	0	0	0
4/29/2024 15:24	64101	REFR_T1	3	2	-1	0.4	0.25	-0.15	-0.64	-0.57	0	0	0	0	0	0
4/29/2024 15:25	54501	ENOL_T2	0	0	0	0	0	0	-0.28	-0.3	1	1	0	600	600	0
4/29/2024 15:26	48302	ORWI_T2	2	2	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
4/29/2024 15:26	45902	AUBU_T1	0	1	1	0	0.1	0.1	-1.37	-1.39	2	2	0	1200	1200	0
4/29/2024 15:26	48303	ORWI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/29/2024 15:28	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.68	-0.7	1	1	0	600	600	0
4/29/2024 15:29	41502	FAIR_T2	0	0	0	0	0	0	0	-0.56	0	0	0	0	0	0
4/29/2024 15:33	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.72	0	0	0	0	0	0
4/29/2024 15:37	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.72	0	0	0	0	0	0
4/29/2024 15:37	13502	MCMI_T1	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
4/29/2024 15:37	13501	MCMI_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
4/29/2024 15:40	60605	NCOL_T2	641	666	25	1.17	1.81	0.64	0	0	0	0	0	0	0	0
4/29/2024 15:41	61301	EARL_T1	0	0	0	0	0	0	-1.35	-1.37	2	2	0	1800	1800	0
4/29/2024 15:42	45501	DERR_T2	3	2	-1	0.3	0.5	0.2	0.76	0.73	2	2	0	1800	1800	0
4/29/2024 15:43	11102	EGYP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/29/2024 15:43	64101	REFR_T1	2	8	6	0.3	0.5	0.2	-0.57	-0.56	0	0	0	0	0	0
4/29/2024 15:43	11103	EGYP_T1	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
4/29/2024 15:43	11101	EGYP_T1	3	0	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
4/29/2024 15:45	11103	EGYP_T1	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
4/29/2024 15:45	11102	EGYP_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/29/2024 15:48	20403	ASHF_T2	34	21	-13	0.46	0.3	-0.16	0.39	0.34	0	0	0	0	0	0
4/29/2024 15:48	67605	WARW_T1	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
4/29/2024 15:48	20401	ASHF_T2	5	5	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/29/2024 15:48	20402	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/29/2024 15:51	67605	WARW_T1	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
4/29/2024 15:52	24202	PROV_T4	0	0	0	0	0	0	-0.65	-0.7	1	1	0	1200	1200	0
4/29/2024 15:58	63305	GREE_T1	0	2	2	0	0	0	-1.87	-1.91	1	1	0	900	900	0
4/29/2024 15:58	63303	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 15:59	63305	GREE_T1	0	2	2	0	0	0	-1.87	-1.91	1	1	0	900	900	0
4/29/2024 15:59	63303	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 16:00	51402	LYKE_T1	0	7	7	0	0.14	0.14	-2.03	-2.04	2	2	0	1200	1200	0
4/29/2024 16:02	46504	LOHA_T1	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
4/29/2024 16:02	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 16:02	46506	LOHA_T1	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
4/29/2024 16:02	23203	HIRU_T2	1	0	-1	0.2	0	-0.2	0.16	0.16	0	0	0	0	0	0
4/29/2024 16:02	46501	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 16:05	41903	REED_T1	0	0	0	0	0	0	0.69	0.62	2	2	0	2400	2400	0
4/29/2024 16:05	41902	REED_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/29/2024 16:05	41901	REED_T1	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/29/2024 16:08	44502	HAMI_T2	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
4/29/2024 16:08	44505	HAMI_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
4/29/2024 16:09	44505	HAMI_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
4/29/2024 16:09	44502	HAMI_T2	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
4/29/2024 16:14	44502	HAMI_T2	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
4/29/2024 16:14	44505	HAMI_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
4/29/2024 16:20	42201	SHEN_T2	1	0	-1	0.5	0	-0.5	0.57	0.55	0	0	0	0	0	0
4/29/2024 16:22	20603	GRWO_T2	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
4/29/2024 16:23	45902	AUBU_T1	0	0	0	0	0	0	-0.71	-0.68	1	1	0	600	600	0
4/29/2024 16:24	10801	CHHI_T1	0	5	5	0	0.66	0.66	-1.04	-1.6	2	2	0	1500	1500	0
4/29/2024 16:26	67702	WERN_T2	0	0	0	0	0	0	0.13	0.17	0	0	0	0	0	0
4/29/2024 16:26	45902	AUBU_T1	0	0	0	0	0	0	-0.71	-0.68	1	1	0	600	600	0
4/29/2024 16:26	10805	CHHI_T2	1	1	0	8.7	8	-0.7	-0.63	-0.93	1	1	0	600	600	0
4/29/2024 16:27	10805	CHHI_T2	1	1	0	8.7	8	-0.7	-0.63	-0.93	1	1	0	600	600	0
4/29/2024 16:27	45902	AUBU_T1	0	0	0	0	0	0	-0.71	-0.68	1	1	0	600	600	0
4/29/2024 16:34	14401	SSLA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/29/2024 16:34	14404	SSLA_T1	1	1	0	4.7	4.8	0.1	0.13	0.12	0	0	0	0	0	0
4/29/2024 16:34	14402	SSLA_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
4/29/2024 16:36	14404	SSLA_T1	1	1	0	4.7	4.8	0.1	0.13	0.12	0	0	0	0	0	0
4/29/2024 16:36	44505	HAMI_T2	0	20	20	0	0.31	0.31	0.14	0.16	0	0	0	0	0	0
4/29/2024 16:36	44502	HAMI_T2	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
4/29/2024 16:36	14401	SSLA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/29/2024 16:36	14402	SSLA_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
4/29/2024 16:38	44502	HAMI_T2	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
4/29/2024 16:38	44505	HAMI_T2	0	20	20	0	0.31	0.31	0.14	0.16	0	0	0	0	0	0
4/29/2024 16:39	64101	REFR_T1	2	3	1	0.3	0.1	-0.2	-0.77	-0.66	0	0	0	0	0	0
4/29/2024 16:40	44502	HAMI_T2	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
4/29/2024 16:40	44505	HAMI_T2	0	20	20	0	0.31	0.31	0.16	0.14	0	0	0	0	0	0
4/29/2024 16:45	51401	LYKE_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
4/29/2024 16:45	44502	HAMI_T2	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
4/29/2024 16:45	44505	HAMI_T2	8	20	12	0.33	0.44	0.11	0.16	0.14	0	0	0	0	0	0
4/29/2024 16:45	51402	LYKE_T1	11	5	-6	0.15	0.14	-0.01	-2.07	-2.05	2	2	0	1200	1200	0
4/29/2024 16:48	51402	LYKE_T1	11	5	-6	0.15	0.14	-0.01	-2.07	-2.05	2	2	0	1200	1200	0
4/29/2024 16:50	51402	LYKE_T1	11	5	-6	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
4/29/2024 16:50	51401	LYKE_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
4/29/2024 16:51	44505	HAMI_T2	8	20	12	0.33	0.44	0.11	0.16	0.14	0	0	0	0	0	0
4/29/2024 16:51	44502	HAMI_T2	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
4/29/2024 16:52	67801	WLAN_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
4/29/2024 16:56	44505	HAMI_T2	8	20	12	0.33	0.44	0.11	0.14	0.15	0	0	0	0	0	0
4/29/2024 16:56	44502	HAMI_T2	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
4/29/2024 17:00	51401	LYKE_T1	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
4/29/2024 17:00	51402	LYKE_T1	5	2	-3	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
4/29/2024 17:06	51401	LYKE_T1	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
4/29/2024 17:06	51402	LYKE_T1	5	2	-3	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
4/29/2024 17:10	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 17:11	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 17:14	10805	CHHI_T2	1	1	0	8	7.9	-0.1	-1	-0.98	1	1	0	600	600	0
4/29/2024 17:15	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 17:15	63401	HONY_T1	0	0	0	0	0	0	0.86	0.88	0	0	0	0	0	0
4/29/2024 17:17	63401	HONY_T1	0	0	0	0	0	0	0.86	0.88	0	0	0	0	0	0
4/29/2024 17:18	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	4	4	0	3000	3000	0
4/29/2024 17:19	64204	KINZ_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
4/29/2024 17:19	64201	KINZ_T1	0	0	0	0	0	0	-0.63	-0.62	4	4	0	2100	2100	0
4/29/2024 17:22	43202	MVIL_T2	9	27	18	0.21	0.2	-0.01	-0.64	-0.67	0	0	0	0	0	0
4/29/2024 17:22	63401	HONY_T1	0	0	0	0	0	0	0.86	0.88	0	0	0	0	0	0
4/29/2024 17:23	44502	HAMI_T2	1	1	0	2.4	2.2	-0.2	0	0	0	0	0	0	0	0
4/29/2024 17:23	44505	HAMI_T2	14	50	36	0.49	0.62	0.13	0.15	0.14	0	0	0	0	0	0
4/29/2024 17:24	44502	HAMI_T2	1	1	0	2.4	2.2	-0.2	0	0	0	0	0	0	0	0
4/29/2024 17:24	44505	HAMI_T2	14	50	36	0.49	0.62	0.13	0.14	0.15	0	0	0	0	0	0
4/29/2024 17:26	60605	NCOL_T2	806	828	22	1.61	2.08	0.47	0	0	0	0	0	0	0	0
4/29/2024 17:27	51101	CARL_T1	0	0	0	0	0	0	-0.84	-0.88	1	1	0	600	600	0
4/29/2024 17:27	51108	CARL_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/29/2024 17:29	44502	HAMI_T2	1	1	0	2.4	2.2	-0.2	0	0	0	0	0	0	0	0
4/29/2024 17:29	44505	HAMI_T2	14	50	36	0.49	0.62	0.13	0.14	0.15	0	0	0	0	0	0
4/29/2024 17:30	52006	LING_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 17:30	52002	LING_T2	1	3	2	0.1	0	-0.1	0.75	0.77	0	0	0	0	0	0
4/29/2024 17:31	51402	LYKE_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/29/2024 17:31	51401	LYKE_T1	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
4/29/2024 17:32	51401	LYKE_T1	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
4/29/2024 17:32	51402	LYKE_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/29/2024 17:37	51402	LYKE_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/29/2024 17:37	51401	LYKE_T1	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
4/29/2024 17:40	44502	HAMI_T2	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
4/29/2024 17:40	44505	HAMI_T2	11	51	40	0.62	0.55	-0.07	0.15	0.15	0	0	0	0	0	0
4/29/2024 17:45	44502	HAMI_T2	1	1	0	2	2.4	0.4	0	0	0	0	0	0	0	0
4/29/2024 17:45	44505	HAMI_T2	50	126	76	0.52	0.58	0.06	0.15	0.15	0	0	0	0	0	0
4/29/2024 17:52	59101	WALK_T2	0	0	0	0	0	0	1.38	1.35	1	1	0	600	600	0
4/29/2024 17:54	41903	REED_T1	0	0	0	0	0	0	0.17	0.07	1	1	0	1200	1200	0
4/29/2024 17:54	59101	WALK_T2	0	0	0	0	0	0	1.35	1.28	1	1	0	600	600	0
4/29/2024 17:54	41902	REED_T1	4	3	-1	0.78	0.3	-0.48	0	0	0	0	0	0	0	0
4/29/2024 17:55	44502	HAMI_T2	1	1	0	2	2.4	0.4	0	0	0	0	0	0	0	0
4/29/2024 17:55	44505	HAMI_T2	50	126	76	0.52	0.58	0.06	0.15	0.16	0	0	0	0	0	0
4/29/2024 17:58	64101	REFR_T1	5	27	22	0.78	0.51	-0.27	-0.5	-0.58	0	0	0	0	0	0
4/29/2024 18:01	50105	HARR_T3	6	6	0	6.12	5.85	-0.27	0	0	0	0	0	0	0	0
4/29/2024 18:01	50107	HARR_T3	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
4/29/2024 18:01	44505	HAMI_T2	26	131	105	0.61	0.5	-0.11	0.15	0.16	0	0	0	0	0	0
4/29/2024 18:01	44502	HAMI_T2	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
4/29/2024 18:01	50201	HARR_T3	1	1	0	0	0.3	0.3	0	0	0	0	0	0	0	0
4/29/2024 18:02	45702	LIND_T2	1	1	0	1.3	1.4	0.1	-0.44	-0.43	0	0	0	0	0	0
4/29/2024 18:06	44502	HAMI_T2	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
4/29/2024 18:06	44505	HAMI_T2	26	131	105	0.61	0.5	-0.11	0.15	0.16	0	0	0	0	0	0
4/29/2024 18:10	25603	ARRO_T1	0	1	1	0	0.1	0.1	-0.14	-0.14	0	0	0	0	0	0
4/29/2024 18:10	62607	ENGL_T1	2	2	0	0.7	0.3	-0.4	-0.67	-0.66	1	1	0	300	300	0
4/29/2024 18:10	62604	ENGL_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/29/2024 18:11	44502	HAMI_T2	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
4/29/2024 18:11	44505	HAMI_T2	26	131	105	0.61	0.5	-0.11	0.16	0.16	0	0	0	0	0	0
4/29/2024 18:11	25603	ARRO_T1	0	1	1	0	0.1	0.1	-0.14	-0.14	0	0	0	0	0	0
4/29/2024 18:14	10801	CHHI_T1	0	0	0	0	0	0	-1.52	-1.5	3	3	0	2100	2100	0
4/29/2024 18:15	10801	CHHI_T1	0	0	0	0	0	0	-1.52	-1.5	3	3	0	2100	2100	0
4/29/2024 18:16	63403	HONY_T2	0	1	1	0	0	0	-0.85	-0.8	1	1	0	600	600	0
4/29/2024 18:16	63402	HONY_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
4/29/2024 18:19	10801	CHHI_T1	0	0	0	0	0	0	-1.52	-1.5	3	3	0	2100	2100	0
4/29/2024 18:25	59101	WALK_T2	0	0	0	0	0	0	1.2	1.4	1	1	0	600	600	0
4/29/2024 18:27	40505	CRES_T1	4	3	-1	3.68	4.2	0.52	0	0	0	0	0	0	0	0
4/29/2024 18:27	40504	CRES_T1	0	0	0	0	0	0	-1.44	-1.44	0	0	0	0	0	0
4/29/2024 18:29	41502	FAIR_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
4/29/2024 18:35	51004	NHAR_T1	1	1	0	6.4	6.4	0	-0.12	-0.12	0	0	0	0	0	0
4/29/2024 18:37	59202	THOM_T1	18	11	-7	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
4/29/2024 18:37	59201	THOM_T1	12	6	-6	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
4/29/2024 18:38	59202	THOM_T1	18	11	-7	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
4/29/2024 18:38	47401	PENS_T1	3	3	0	0.2	0.15	-0.05	0.23	0.18	0	0	0	0	0	0
4/29/2024 18:38	59201	THOM_T1	12	6	-6	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
4/29/2024 18:42	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/29/2024 18:49	52501	PROG_T1	0	0	0	0	0	0	-0.48	-0.52	1	1	0	300	300	0
4/29/2024 18:50	52501	PROG_T1	0	0	0	0	0	0	-0.48	-0.52	1	1	0	300	300	0
4/29/2024 18:50	59202	THOM_T1	11	23	12	0.2	0.22	0.02	0	0	0	0	0	0	0	0
4/29/2024 18:50	59201	THOM_T1	6	8	2	0.13	0.23	0.1	0	0	0	0	0	0	0	0
4/29/2024 18:50	12601	MACA_T1	0	0	0	0	0	0	1.16	1.16	0	0	0	0	0	0
4/29/2024 18:51	52501	PROG_T1	0	0	0	0	0	0	-0.48	-0.52	1	1	0	300	300	0
4/29/2024 18:52	44505	HAMI_T2	202	218	16	0.84	0.77	-0.07	0.15	0.17	0	0	0	0	0	0
4/29/2024 18:52	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
4/29/2024 18:53	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
4/29/2024 18:53	44505	HAMI_T2	202	218	16	0.84	0.77	-0.07	0.15	0.17	0	0	0	0	0	0
4/29/2024 18:56	54505	ENOL_T2	0	1	1	0	0.1	0.1	-1.45	-1.44	1	1	0	600	600	0
4/29/2024 18:58	44505	HAMI_T2	202	218	16	0.84	0.77	-0.07	0.17	0.18	0	0	0	0	0	0
4/29/2024 18:58	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
4/29/2024 19:02	12006	HATF_T1	0	0	0	0	0	0	-0.21	-0.17	2	2	0	2400	2400	0
4/29/2024 19:02	12002	HATF_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/29/2024 19:07	14801	TREI_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
4/29/2024 19:07	14802	TREI_T2	0	0	0	0	0	0	0.7	0.69	0	0	0	0	0	0
4/29/2024 19:14	53502	EVIL_T2	0	0	0	0	0	0	0.24	0.21	1	1	0	600	600	0
4/29/2024 19:14	53501	EVIL_T2	2	1	-1	0.5	1	0.5	0	0	0	0	0	0	0	0
4/29/2024 19:16	41502	FAIR_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
4/29/2024 19:43	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 20:14	25404	LAHA_T2	5	23	18	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/29/2024 20:14	25402	LAHA_T2	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
4/29/2024 20:22	46302	ROHR_T1	4	4	0	1.68	2	0.32	0.24	0.23	0	0	0	0	0	0
4/29/2024 20:22	46301	ROHR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 20:23	46302	ROHR_T1	4	4	0	1.68	2	0.32	0	0	0	0	0	0	0	0
4/29/2024 20:23	46301	ROHR_T1	0	1	1	0	0.1	0.1	0.23	0.24	0	0	0	0	0	0
4/29/2024 20:24	46302	ROHR_T1	4	4	0	1.68	2	0.32	0.23	0.22	0	0	0	0	0	0
4/29/2024 20:24	46301	ROHR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 20:25	43304	WATS_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
4/29/2024 20:26	46302	ROHR_T1	4	4	0	1.68	2	0.32	0	0	0	0	0	0	0	0
4/29/2024 20:26	46301	ROHR_T1	0	1	1	0	0.1	0.1	0.24	0.24	0	0	0	0	0	0
4/29/2024 20:28	67703	WERN_T2	0	0	0	0	0	0	-1.49	-1.49	3	3	0	2700	2700	0
4/29/2024 20:30	67703	WERN_T2	0	0	0	0	0	0	-0.99	-0.99	2	2	0	1800	1800	0
4/29/2024 20:31	58001	WCAR_T1	4	4	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
4/29/2024 20:31	58003	WCAR_T1	1	4	3	1.8	0.58	-1.22	0.25	0.24	1	1	0	600	600	0
4/29/2024 20:33	46506	LOHA_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/29/2024 20:33	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
4/29/2024 20:33	46504	LOHA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 20:36	23201	HIRU_T2	4	11	7	0.13	0.15	0.02	0	0	0	0	0	0	0	0
4/29/2024 20:36	23203	HIRU_T2	2	94	92	0.1	0.13	0.03	0.17	0.16	0	0	0	0	0	0
4/29/2024 20:36	23202	HIRU_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
4/29/2024 20:37	46504	LOHA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 20:37	46506	LOHA_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/29/2024 20:37	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
4/29/2024 20:57	66703	STRA_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
4/29/2024 21:08	54601	SUMM_T2	0	0	0	0	0	0	-3.14	-3.1	4	4	0	4200	4200	0
4/29/2024 21:10	54601	SUMM_T2	0	0	0	0	0	0	-1.57	-1.55	2	2	0	2100	2100	0
4/29/2024 21:11	54601	SUMM_T2	0	0	0	0	0	0	-1.57	-1.55	2	2	0	2100	2100	0
4/29/2024 21:13	54601	SUMM_T2	0	0	0	0	0	0	-1.57	-1.55	2	2	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/29/2024 21:23	13503	MCMI_T2	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
4/29/2024 21:28	56801	BENV_T1	10	10	0	0.91	1.03	0.12	-0.53	-0.57	1	1	0	600	600	0
4/29/2024 21:31	56802	BENV_T2	52	23	-29	0.19	0.19	0	-1.14	-1.25	0	0	0	0	0	0
4/29/2024 21:32	64702	LITI_T2	0	0	0	0	0	0	-0.28	-0.34	0	0	0	0	0	0
4/29/2024 21:33	64702	LITI_T2	0	0	0	0	0	0	-0.28	-0.34	0	0	0	0	0	0
4/29/2024 21:36	64702	LITI_T2	0	0	0	0	0	0	-0.28	-0.34	0	0	0	0	0	0
4/29/2024 21:42	56801	BENV_T1	9	13	4	1.01	0.88	-0.13	-0.57	-0.61	1	1	0	600	600	0
4/29/2024 21:43	56801	BENV_T1	9	13	4	1.01	0.88	-0.13	-0.57	-0.61	1	1	0	600	600	0
4/29/2024 21:43	56802	BENV_T2	52	23	-29	0.19	0.19	0	-4.99	-5.07	0	0	0	0	0	0
4/29/2024 21:44	56801	BENV_T1	9	13	4	1.01	0.88	-0.13	-1.71	-1.83	3	3	0	1800	1800	0
4/29/2024 21:44	56802	BENV_T2	52	23	-29	0.19	0.19	0	-4.99	-5.07	0	0	0	0	0	0
4/29/2024 21:44	22602	KIMB_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
4/29/2024 21:45	56802	BENV_T2	4	23	19	0.3	0.19	-0.11	-6.23	-6.34	0	0	0	0	0	0
4/29/2024 21:46	56802	BENV_T2	4	23	19	0.3	0.19	-0.11	-1.25	-1.27	0	0	0	0	0	0
4/29/2024 21:47	56801	BENV_T1	10	12	2	0.87	0.83	-0.04	-1.71	-1.83	3	3	0	1800	1800	0
4/29/2024 21:47	56802	BENV_T2	4	23	19	0.3	0.19	-0.11	-1.25	-1.27	0	0	0	0	0	0
4/29/2024 21:48	56802	BENV_T2	4	23	19	0.3	0.19	-0.11	-1.25	-1.27	0	0	0	0	0	0
4/29/2024 21:48	56801	BENV_T1	10	12	2	0.87	0.83	-0.04	-1.14	-1.22	2	2	0	1200	1200	0
4/29/2024 21:49	56802	BENV_T2	4	23	19	0.3	0.19	-0.11	-1.25	-1.27	0	0	0	0	0	0
4/29/2024 21:49	17002	RIRO_T2	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
4/29/2024 21:49	61101	BERK_T5	0	0	0	0	0	0	-0.85	-0.74	0	0	0	0	0	0
4/29/2024 21:51	58401	MORO_T1	0	0	0	0	0	0	-0.88	-0.92	1	1	0	600	600	0
4/29/2024 21:51	42802	SELI_T1	0	1	1	0	0.5	0.5	-1.11	-1.11	0	0	0	0	0	0
4/29/2024 21:51	12402	MILF_T1	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
4/29/2024 21:52	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/29/2024 21:52	65003	NEFF_T2	20	1	-19	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
4/29/2024 21:52	65004	NEFF_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
4/29/2024 21:52	11405	FARM_T1	1	1	0	7.1	6.6	-0.5	-0.42	-0.48	1	1	0	1200	1200	0
4/29/2024 21:52	63602	LETO_T1	33	0	-33	0.12	0	-0.12	-0.57	-0.49	1	1	0	600	600	0
4/29/2024 21:53	64204	KINZ_T1	17	34	17	0.19	0.36	0.17	0	0	0	0	0	0	0	0
4/29/2024 21:53	64202	KINZ_T1	4	13	9	0.1	0.23	0.13	0	0	0	0	0	0	0	0
4/29/2024 21:53	64201	KINZ_T1	7	13	6	0.37	0.41	0.04	-0.46	0.61	2	2	0	1200	1200	0
4/29/2024 21:54	67502	WEWI_T2	0	0	0	0	0	0	-1.17	-1.06	1	1	0	900	900	0
4/29/2024 21:55	11302	ORVI_T2	0	0	0	0	0	0	1.67	0.27	0	0	0	0	0	0
4/29/2024 21:55	13905	SEID_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/29/2024 21:55	58401	MORO_T1	0	0	0	0	0	0	-0.92	-0.9	1	1	0	600	600	0
4/29/2024 21:56	26002	WDAM_T1	2	3	1	0.5	0.5	0	0	0	0	0	0	0	0	0
4/29/2024 21:56	42802	SELI_T1	0	1	1	0	0.5	0.5	-1.11	-1.18	0	0	0	0	0	0
4/29/2024 21:56	23202	HIRU_T2	10	11	1	0.13	0.15	0.02	0.11	0.1	0	0	0	0	0	0
4/29/2024 21:56	23203	HIRU_T2	99	52	-47	0.13	0.13	0	0	0	0	0	0	0	0	0
4/29/2024 21:56	26001	WDAM_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
4/29/2024 21:56	45602	WOOL_T1	0	2	2	0	0.2	0.2	0.54	0.54	0	0	0	0	0	0
4/29/2024 21:56	23201	HIRU_T2	22	29	7	0.13	0.13	0	0	0	0	0	0	0	0	0
4/29/2024 21:56	25603	ARRO_T1	31	38	7	0.19	0.26	0.07	-0.17	-0.17	0	0	0	0	0	0
4/29/2024 21:56	11103	EGYP_T1	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
4/29/2024 21:56	66504	SMAN_T2	0	0	0	0	0	0	-2.46	-2.68	2	2	0	2400	2400	0
4/29/2024 21:57	50201	HARR_T3	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
4/29/2024 21:57	20603	GRWO_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
4/29/2024 21:57	50105	HARR_T3	6	6	0	5.68	6.25	0.57	0	0	0	0	0	0	0	0
4/29/2024 21:57	50103	HARR_T3	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/29/2024 21:57	20401	ASHF_T2	4	2	-2	0.43	0.15	-0.28	-0.17	-0.18	0	0	0	0	0	0
4/29/2024 21:57	64204	KINZ_T1	17	34	17	0.19	0.36	0.17	0	0	0	0	0	0	0	0
4/29/2024 21:57	28805	LAKE_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
4/29/2024 21:57	13901	SEID_T1	0	0	0	0	0	0	-0.68	-0.72	1	1	0	1200	1200	0
4/29/2024 21:57	20403	ASHF_T2	29	27	-2	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
4/29/2024 21:57	64201	KINZ_T1	7	13	6	0.37	0.41	0.04	-0.46	0.61	2	1	-1	1200	300	-900
4/29/2024 21:57	60803	BUCK_T1	2	6	4	0.1	0.1	0	-1.07	-1.08	1	1	0	600	600	0
4/29/2024 21:57	50107	HARR_T3	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
4/29/2024 21:57	26401	INOR_T1	1	1	0	8.8	9.2	0.4	0.31	0.31	0	0	0	0	0	0
4/29/2024 21:57	64202	KINZ_T1	4	13	9	0.1	0.23	0.13	0	0	0	0	0	0	0	0
4/29/2024 21:57	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/29/2024 21:58	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
4/29/2024 21:58	54203	PENN_T1	18	18	0	0.64	0.66	0.02	0	0	0	0	0	0	0	0
4/29/2024 21:58	54201	PENN_T1	6	6	0	1.05	0.9	-0.15	-0.66	-0.7	0	0	0	0	0	0
4/29/2024 21:58	15001	BLMO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 21:59	60101	COCA_T1	0	0	0	0	0	0	0.53	0.48	0	0	0	0	0	0
4/29/2024 21:59	67502	WEWI_T2	0	0	0	0	0	0	-1.17	-1.06	1	1	0	900	900	0
4/29/2024 21:59	11103	EGYP_T1	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
4/29/2024 21:59	60605	NCOL_T2	128	26	-102	0.61	0.46	-0.15	0	0	0	0	0	0	0	0
4/29/2024 21:59	45902	AUBU_T1	0	1	1	0	0.3	0.3	-2.16	-2.16	2	2	0	1200	1200	0
4/29/2024 21:59	10805	CHHI_T2	1	1	0	7.5	7.6	0.1	-1.07	-1.1	1	1	0	600	600	0
4/29/2024 21:59	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 21:59	11507	FREE_T2	0	0	0	0	0	0	1.09	1.1	0	0	0	0	0	0
4/29/2024 21:59	51002	NHAR_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/29/2024 21:59	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	4	4	0	3000	3000	0
4/29/2024 21:59	51004	NHAR_T1	1	1	0	6	6.2	0.2	-0.23	-0.28	0	0	0	0	0	0
4/29/2024 22:00	48302	ORWI_T2	2	2	0	1.3	1.05	-0.25	-0.01	-0.05	0	0	0	0	0	0
4/29/2024 22:00	57003	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 22:00	16402	MOPO_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
4/29/2024 22:00	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/29/2024 22:00	63304	GREE_T1	0	1	1	0	0.1	0.1	-1.4	-1.46	0	0	0	0	0	0
4/29/2024 22:00	60803	BUCK_T1	6	13	7	0.1	0.22	0.12	-1.07	-1.08	1	1	0	600	600	0
4/29/2024 22:00	57006	WHHI_T2	0	0	0	0	0	0	1.14	1.06	0	0	0	0	0	0
4/29/2024 22:00	24102	EHAZ_T1	1	1	0	0.2	1.4	1.2	0.33	0.34	0	0	0	0	0	0
4/29/2024 22:00	63305	GREE_T1	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/29/2024 22:00	24104	EHAZ_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/29/2024 22:00	24105	EHAZ_T1	4	5	1	6.48	6.33	-0.15	0	0	0	0	0	0	0	0
4/29/2024 22:00	57403	SPAN_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
4/29/2024 22:00	46002	BERW_T2	0	0	0	0	0	0	-0.78	-0.88	1	1	0	900	900	0
4/29/2024 22:00	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 22:00	10801	CHHI_T1	0	0	0	0	0	0	-1.67	-1.74	3	3	0	2100	2100	0
4/29/2024 22:01	62607	ENGL_T1	1	1	0	0	0	0	-0.74	-0.77	1	1	0	300	300	0
4/29/2024 22:01	53901	HALI_T2	1	1	0	0.5	0.2	-0.3	-1.35	-1.35	0	0	0	0	0	0
4/29/2024 22:01	65003	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/29/2024 22:01	54203	PENN_T1	18	5	-13	0.66	0.74	0.08	0.37	0.34	0	0	0	0	0	0
4/29/2024 22:01	41801	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/29/2024 22:01	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 22:01	14404	SSLA_T1	1	2	1	5.6	5.3	-0.3	0.08	0.05	0	0	0	0	0	0
4/29/2024 22:01	65001	NEFF_T2	0	0	0	0	0	0	-0.46	-0.54	1	1	0	1200	1200	0
4/29/2024 22:01	53902	HALI_T2	1	1	0	5.8	5.3	-0.5	0	0	0	0	0	0	0	0
4/29/2024 22:01	40801	EXCH_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/29/2024 22:01	41802	GOCI_T2	8	0	-8	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/29/2024 22:01	44601	SALE_T2	1	1	0	0.6	0.6	0	0.11	0.13	0	0	0	0	0	0
4/29/2024 22:01	57003	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 22:01	53903	HALI_T2	2	2	0	1.6	0.9	-0.7	0	0	0	0	0	0	0	0
4/29/2024 22:01	55003	NEWP_T2	0	7	7	0	0.17	0.17	-0.03	-0.81	0	1	1	0	600	600
4/29/2024 22:01	57002	WHHI_T2	0	0	0	0	0	0	-0.81	-0.84	0	0	0	0	0	0
4/29/2024 22:01	40802	EXCH_T2	4	0	-4	0.18	0	-0.18	-0.21	-0.25	0	0	0	0	0	0
4/29/2024 22:01	54201	PENN_T1	6	6	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
4/29/2024 22:01	20401	ASHF_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/29/2024 22:01	10805	CHHI_T2	1	1	0	7.6	7.8	0.2	-1.07	-1.1	1	1	0	600	600	0
4/29/2024 22:01	20403	ASHF_T2	25	26	1	0.3	0.28	-0.02	0.3	0.27	0	0	0	0	0	0
4/29/2024 22:02	40303	TAMA_T3	0	0	0	0	0	0	2.43	2.26	0	0	0	0	0	0
4/29/2024 22:02	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 22:02	12801	MICK_T1	0	0	0	0	0	0	-0.06	-0.12	1	1	0	600	600	0
4/29/2024 22:02	40302	TAMA_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/29/2024 22:02	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 22:02	54203	PENN_T1	18	5	-13	0.66	0.74	0.08	0	0	0	0	0	0	0	0
4/29/2024 22:02	40602	PIGR_T1	0	1	1	0	0.1	0.1	0.42	0.32	0	0	0	0	0	0
4/29/2024 22:02	12803	MICK_T1	1	1	0	1	1.5	0.5	0	0	0	0	0	0	0	0
4/29/2024 22:02	54201	PENN_T1	6	6	0	0.9	0.5	-0.4	-0.66	-0.7	0	0	0	0	0	0
4/29/2024 22:03	40302	TAMA_T3	1	0	-1	0.1	0	-0.1	0.03	0.04	0	0	0	0	0	0
4/29/2024 22:03	41504	FAIR_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
4/29/2024 22:03	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 22:03	63401	HONY_T1	0	0	0	0	0	0	0.57	0.74	0	0	0	0	0	0
4/29/2024 22:03	59302	MCAL_T1	0	0	0	0	0	0	-0.21	-0.2	1	1	0	600	600	0
4/29/2024 22:03	53903	HALI_T2	2	2	0	1.6	0.9	-0.7	0	0	0	0	0	0	0	0
4/29/2024 22:03	65503	MOJO_T2	0	0	0	0	0	0	0.09	0.13	0	0	0	0	0	0
4/29/2024 22:03	53901	HALI_T2	1	1	0	0.5	0.2	-0.3	-2.69	-2.69	0	0	0	0	0	0
4/29/2024 22:03	53902	HALI_T2	1	1	0	5.8	5.3	-0.5	0	0	0	0	0	0	0	0
4/29/2024 22:03	10801	CHHI_T1	0	0	0	0	0	0	-1.67	-1.74	3	3	0	2100	2100	0
4/29/2024 22:03	63403	HONY_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
4/29/2024 22:03	64902	MILL_T2	0	0	0	0	0	0	-0.32	-0.32	1	1	0	900	900	0
4/29/2024 22:03	64202	KINZ_T1	13	2	-11	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/29/2024 22:03	59301	MCAL_T1	2	2	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
4/29/2024 22:03	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.83	0	0	0	0	0	0
4/29/2024 22:03	45501	DERR_T2	0	0	0	0	0	0	0	-0.2	2	2	0	1800	1800	0
4/29/2024 22:03	48302	ORWI_T2	2	2	0	1.3	1.05	-0.25	-0.01	-0.05	0	0	0	0	0	0
4/29/2024 22:03	64204	KINZ_T1	34	5	-29	0.36	0.36	0	0	0	0	0	0	0	0	0
4/29/2024 22:03	63402	HONY_T2	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
4/29/2024 22:03	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 22:03	63202	MGTN_T2	0	0	0	0	0	0	0.1	0.03	1	1	0	900	900	0
4/29/2024 22:03	64201	KINZ_T1	13	2	-11	0.41	0.6	0.19	-0.46	0.61	2	1	-1	1200	300	-900
4/29/2024 22:04	60801	BUCK_T1	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
4/29/2024 22:04	24901	WHHA_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
4/29/2024 22:04	64201	KINZ_T1	13	2	-11	0.41	0.6	0.19	-0.46	0.61	2	1	-1	1200	300	-900
4/29/2024 22:04	14801	TREI_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
4/29/2024 22:04	64204	KINZ_T1	34	5	-29	0.36	0.36	0	0	0	0	0	0	0	0	0
4/29/2024 22:04	47401	PENS_T1	0	34	34	0	0.17	0.17	-0.09	-0.31	0	0	0	0	0	0
4/29/2024 22:04	55002	NEWP_T1	2	2	0	0.55	0.2	-0.35	-0.2	-0.24	0	0	0	0	0	0
4/29/2024 22:04	63602	LETO_T1	0	0	0	0	0	0	-0.49	-0.54	1	1	0	600	600	0
4/29/2024 22:04	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.83	0	0	0	0	0	0
4/29/2024 22:04	64202	KINZ_T1	13	2	-11	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/29/2024 22:04	65901	SAKR_T2	1	1	0	8.4	8	-0.4	-0.78	-0.85	1	1	0	900	900	0
4/29/2024 22:04	60803	BUCK_T1	6	13	7	0.1	0.22	0.12	0	0	0	0	0	0	0	0
4/29/2024 22:04	45902	AUBU_T1	1	0	-1	0.3	0	-0.3	-1.08	-1.08	1	1	0	600	600	0
4/29/2024 22:04	58402	MORO_T1	0	0	0	0	0	0	-0.33	-0.33	2	2	0	1500	1500	0
4/29/2024 22:05	45702	LIND_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/29/2024 22:05	55002	NEWP_T1	2	2	0	0.55	0.2	-0.35	-0.6	-0.72	0	0	0	0	0	0
4/29/2024 22:05	61301	EARL_T1	0	0	0	0	0	0	0.19	-0.77	0	1	1	0	900	900
4/29/2024 22:05	46802	HEPB_T1	1	1	0	0.8	0.8	0	-0.17	-0.19	0	0	0	0	0	0
4/29/2024 22:05	60605	NCOL_T2	25	9	-16	0.55	0	-0.55	0	0	0	0	0	0	0	0
4/29/2024 22:05	45901	AUBU_T1	0	0	0	0	0	0	1.94	1.94	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/29/2024 22:05	45701	LIND_T2	0	0	0	0	0	0	-0.84	-1.01	0	0	0	0	0	0
4/29/2024 22:05	45902	AUBU_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/29/2024 22:06	63305	GREE_T1	2	2	0	0.1	0.15	0.05	-1.14	-1.13	0	0	0	0	0	0
4/29/2024 22:06	14204	EALL_T2	0	0	0	0	0	0	-0.68	-0.6	0	0	0	0	0	0
4/29/2024 22:06	63304	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 22:06	59101	WALK_T2	0	0	0	0	0	0	1.03	0.95	1	1	0	600	600	0
4/29/2024 22:06	61101	BERK_T5	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
4/29/2024 22:06	46802	HEPB_T1	1	1	0	0.8	0.8	0	-0.17	-0.19	0	0	0	0	0	0
4/29/2024 22:07	20401	ASHF_T2	2	0	-2	0.15	0	-0.15	-0.17	-0.18	0	0	0	0	0	0
4/29/2024 22:07	45902	AUBU_T1	1	0	-1	0.3	0	-0.3	-1.08	-1.08	1	1	0	600	600	0
4/29/2024 22:07	20403	ASHF_T2	25	26	1	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
4/29/2024 22:07	14205	EALL_T2	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
4/29/2024 22:07	11101	EGYP_T1	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
4/29/2024 22:07	59202	THOM_T1	8	0	-8	0.16	0	-0.16	0	0	0	0	0	0	0	0
4/29/2024 22:07	42201	SHEN_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
4/29/2024 22:07	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
4/29/2024 22:07	63304	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 22:07	45702	LIND_T2	1	1	0	0.4	0.5	0.1	-0.48	-0.49	0	0	0	0	0	0
4/29/2024 22:07	59201	THOM_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/29/2024 22:07	63305	GREE_T1	2	2	0	0.1	0.15	0.05	-1.14	-1.13	0	0	0	0	0	0
4/29/2024 22:07	60605	NCOL_T2	25	9	-16	0.55	0	-0.55	0	0	0	0	0	0	0	0
4/29/2024 22:07	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 22:07	53501	EVIL_T2	2	2	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
4/29/2024 22:07	53502	EVIL_T2	0	0	0	0	0	0	0.25	0.28	1	1	0	600	600	0
4/29/2024 22:08	60605	NCOL_T2	25	9	-16	0.55	0	-0.55	0	0	0	0	0	0	0	0
4/29/2024 22:08	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 22:08	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 22:08	45902	AUBU_T1	1	0	-1	0.3	0	-0.3	-1.08	-1.12	1	1	0	600	600	0
4/29/2024 22:08	11102	EGYP_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
4/29/2024 22:08	43202	MVIL_T2	59	94	35	0.49	1.04	0.55	-0.7	-0.71	0	0	0	0	0	0
4/29/2024 22:08	10805	CHHI_T2	1	1	0	7.6	7.8	0.2	-2.13	-2.2	2	2	0	1200	1200	0
4/29/2024 22:08	61302	EARL_T1	0	0	0	0	0	0	-0.09	-0.07	2	2	0	1800	1800	0
4/29/2024 22:08	59201	THOM_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/29/2024 22:08	59202	THOM_T1	8	0	-8	0.16	0	-0.16	0	0	0	0	0	0	0	0
4/29/2024 22:08	11101	EGYP_T1	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
4/29/2024 22:08	54501	ENOL_T2	0	0	0	0	0	0	-0.21	-0.24	1	1	0	600	600	0
4/29/2024 22:09	23203	HIRU_T2	52	0	-52	0.13	0	-0.13	-0.03	0.05	0	0	0	0	0	0
4/29/2024 22:09	66505	SMAN_T2	0	0	0	0	0	0	0.34	0.15	2	2	0	1500	1500	0
4/29/2024 22:09	23201	HIRU_T2	29	0	-29	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/29/2024 22:09	20401	ASHF_T2	2	0	-2	0.15	0	-0.15	-0.18	-0.21	0	0	0	0	0	0
4/29/2024 22:09	67805	WLAN_T1	58	201	143	0.15	0.16	0.01	0	0	0	0	0	0	0	0
4/29/2024 22:09	10801	CHHI_T1	0	0	0	0	0	0	-1.74	-1.73	3	3	0	2100	2100	0
4/29/2024 22:09	64203	KINZ_T1	0	0	0	0	0	0	0.47	0.38	0	0	0	0	0	0
4/29/2024 22:09	25503	MADI_T1	97	143	46	0.2	0.33	0.13	-0.95	-0.99	0	0	0	0	0	0
4/29/2024 22:09	29401	BELT_T1	70	0	-70	0.32	0	-0.32	0	0	1	1	0	900	900	0
4/29/2024 22:09	64101	REFR_T1	0	0	0	0	0	0	-1.86	-2.01	0	0	0	0	0	0
4/29/2024 22:09	64204	KINZ_T1	34	5	-29	0.36	0.36	0	0	0	0	0	0	0	0	0
4/29/2024 22:09	64202	KINZ_T1	13	2	-11	0.23	0.3	0.07	0	0	0	0	0	0	0	0
4/29/2024 22:09	46506	LOHA_T1	0	1	1	0	0.2	0.2	-0.4	-0.37	0	0	0	0	0	0
4/29/2024 22:09	46504	LOHA_T1	2	51	49	1.3	0.55	-0.75	0	0	0	0	0	0	0	0
4/29/2024 22:09	64201	KINZ_T1	13	2	-11	0.41	0.6	0.19	0	0	0	0	0	0	0	0
4/29/2024 22:09	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
4/29/2024 22:09	67803	WLAN_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
4/29/2024 22:09	15001	BLMO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/29/2024 22:09	51402	LYKE_T1	0	0	0	0	0	0	-1.42	-1.47	1	1	0	600	600	0
4/29/2024 22:09	60803	BUCK_T1	6	13	7	0.1	0.22	0.12	-1.08	-1.11	1	1	0	600	600	0
4/29/2024 22:09	23202	HIRU_T2	11	0	-11	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/29/2024 22:09	60605	NCOL_T2	25	9	-16	0.55	0	-0.55	0	0	0	0	0	0	0	0
4/29/2024 22:09	20403	ASHF_T2	25	26	1	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
4/29/2024 22:09	29402	BELT_T1	1	1	0	7.5	6.6	-0.9	0	0	0	0	0	0	0	0
4/29/2024 22:09	67802	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 22:09	65503	MOJO_T2	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
4/29/2024 22:09	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 22:10	24202	PROV_T4	0	0	0	0	0	0	-0.9	-0.94	1	1	0	1200	1200	0
4/29/2024 22:10	57003	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 22:10	64101	REFR_T1	0	0	0	0	0	0	-1.86	-2.01	0	0	0	0	0	0
4/29/2024 22:10	53903	HALI_T2	2	2	0	1.6	0.9	-0.7	0	0	0	0	0	0	0	0
4/29/2024 22:10	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 22:10	60605	NCOL_T2	25	9	-16	0.55	0	-0.55	0	0	0	0	0	0	0	0
4/29/2024 22:10	53901	HALI_T2	1	1	0	0.5	0.2	-0.3	-1.35	-1.36	0	0	0	0	0	0
4/29/2024 22:10	24105	EHAZ_T1	4	5	1	6.48	6.33	-0.15	0	0	0	0	0	0	0	0
4/29/2024 22:10	40602	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 22:10	44301	BEAV_T2	0	0	0	0	0	0	0.52	0.76	1	1	0	600	600	0
4/29/2024 22:10	42401	GIMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 22:10	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
4/29/2024 22:10	40601	PIGR_T1	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
4/29/2024 22:10	53902	HALI_T2	1	1	0	5.8	5.3	-0.5	0	0	0	0	0	0	0	0
4/29/2024 22:10	15001	BLMO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/29/2024 22:10	57006	WHHI_T2	0	0	0	0	0	0	1.06	1.02	0	0	0	0	0	0
4/29/2024 22:10	56501	ROCK_T2	2	2	0	0.5	0.3	-0.2	-0.02	-0.02	0	0	0	0	0	0
4/29/2024 22:10	45501	DERR_T2	0	0	0	0	0	0	-0.2	-0.21	2	2	0	1800	1800	0
4/29/2024 22:10	46004	BERW_T2	0	0	0	0	0	0	-0.04	-0.01	0	0	0	0	0	0
4/29/2024 22:10	63304	GREE_T1	0	1	1	0	0.1	0.1	-1.46	-1.54	0	0	0	0	0	0
4/29/2024 22:10	14603	SWHI_T1	0	0	0	0	0	0	-0.73	-0.79	1	1	0	600	600	0
4/29/2024 22:10	67203	TEHI_T1	0	0	0	0	0	0	1.44	1.24	3	3	0	2100	2100	0
4/29/2024 22:10	24102	EHAZ_T1	1	1	0	0.2	1.4	1.2	0	0	0	0	0	0	0	0
4/29/2024 22:10	48302	ORWI_T2	2	2	0	1.3	1.05	-0.25	0	0	0	0	0	0	0	0
4/29/2024 22:10	63305	GREE_T1	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/29/2024 22:10	10801	CHHI_T1	0	0	0	0	0	0	-3.48	-3.45	6	6	0	4200	4200	0
4/29/2024 22:10	14404	SSLA_T1	1	2	1	5.6	5.3	-0.3	0.05	0.07	0	0	0	0	0	0
4/29/2024 22:10	24104	EHAZ_T1	2	0	-2	0.1	0	-0.1	-2.22	-2.22	1	1	0	1200	1200	0
4/29/2024 22:11	40801	EXCH_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/29/2024 22:11	45702	LIND_T2	1	1	0	0.4	0.5	0.1	-0.49	-0.43	0	0	0	0	0	0
4/29/2024 22:11	64802	MONE_T2	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
4/29/2024 22:11	56501	ROCK_T2	2	2	0	0.5	0.3	-0.2	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 22:11	13704	SCHN_T2	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
4/29/2024 22:11	43105	SMIL_T2	6	0	-6	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/29/2024 22:11	15001	BLMO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/29/2024 22:11	45502	DERR_T2	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
4/29/2024 22:11	15103	UPHA_T2	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
4/29/2024 22:11	26002	WDAM_T1	2	3	1	0.65	0.47	-0.18	0	0	0	0	0	0	0	0
4/29/2024 22:11	61803	EELI_T2	0	0	0	0	0	0	0.21	0.21	1	1	0	600	600	0
4/29/2024 22:11	53901	HALI_T2	1	1	0	0.5	0.2	-0.3	-1.35	-1.36	0	0	0	0	0	0
4/29/2024 22:11	67605	WARW_T1	0	0	0	0	0	0	-0.83	-0.79	0	0	0	0	0	0
4/29/2024 22:11	26001	WDAM_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
4/29/2024 22:11	12601	MACA_T1	0	0	0	0	0	0	0.92	0.91	0	0	0	0	0	0
4/29/2024 22:11	43103	SMIL_T2	16	11	-5	0.59	0.25	-0.34	0	0	0	0	0	0	0	0
4/29/2024 22:11	42201	SHEN_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
4/29/2024 22:11	53902	HALI_T2	1	1	0	5.8	5.3	-0.5	0	0	0	0	0	0	0	0
4/29/2024 22:11	53903	HALI_T2	2	2	0	1.6	0.9	-0.7	0	0	0	0	0	0	0	0
4/29/2024 22:11	20403	ASHF_T2	25	26	1	0.3	0.28	-0.02	0.55	0.45	0	0	0	0	0	0
4/29/2024 22:11	41502	FAIR_T2	0	0	0	0	0	0	-0.65	-0.62	0	0	0	0	0	0
4/29/2024 22:11	44601	SALE_T2	1	1	0	0.6	0.6	0	0.13	0.13	0	0	0	0	0	0
4/29/2024 22:11	40802	EXCH_T2	4	0	-4	0.18	0	-0.18	-0.25	-0.22	0	0	0	0	0	0
4/29/2024 22:11	20401	ASHF_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/29/2024 22:11	59101	WALK_T2	0	0	0	0	0	0	0.95	0.82	1	1	0	600	600	0
4/29/2024 22:11	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
4/29/2024 22:11	51402	LYKE_T1	0	0	0	0	0	0	-1.42	-1.47	1	1	0	600	600	0
4/29/2024 22:11	64801	MONE_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/29/2024 22:11	60101	COCA_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
4/29/2024 22:11	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
4/29/2024 22:11	11103	EGYP_T1	0	0	0	0	0	0	0.43	0.39	0	0	0	0	0	0
4/29/2024 22:11	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 22:11	43102	SMIL_T2	6	4	-2	0.45	0.13	-0.32	0	0	0	0	0	0	0	0
4/29/2024 22:11	12006	HATF_T1	0	0	0	0	0	0	0.12	0.06	1	1	0	1200	1200	0
4/29/2024 22:11	20603	GRWO_T2	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
4/29/2024 22:11	42902	MIDD_T2	0	0	0	0	0	0	-1.14	-1.16	1	1	0	600	600	0
4/29/2024 22:11	44301	BEAV_T2	0	0	0	0	0	0	0.52	0.76	1	1	0	600	600	0
4/29/2024 22:11	43101	SMIL_T2	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
4/29/2024 22:11	52501	PROG_T1	0	0	0	0	0	0	-0.11	-0.08	1	1	0	300	300	0
4/29/2024 22:11	13501	MCMI_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
4/29/2024 22:11	66502	SMAN_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
4/29/2024 22:11	42903	MIDD_T2	2	2	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
4/29/2024 22:11	14802	TREI_T2	0	0	0	0	0	0	0.51	0.44	0	0	0	0	0	0
4/29/2024 22:12	45902	AUBU_T1	1	0	-1	0.3	0	-0.3	-1.08	-1.12	1	1	0	600	600	0
4/29/2024 22:12	53901	HALI_T2	1	0	-1	0.5	0.2	-0.3	-1.35	-1.36	0	0	0	0	0	0
4/29/2024 22:12	40802	EXCH_T2	4	0	-4	0.18	0	-0.18	-0.25	-0.22	0	0	0	0	0	0
4/29/2024 22:12	49803	UNIV_T1	7	24	17	0.16	0.16	0	-1.01	0.21	0	0	0	0	0	0
4/29/2024 22:12	54203	PENN_T1	18	5	-13	0.66	0.74	0.08	0.34	0.34	0	0	0	0	0	0
4/29/2024 22:12	54201	PENN_T1	6	6	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
4/29/2024 22:12	53903	HALI_T2	2	2	0	1.6	0.9	-0.7	0	0	0	0	0	0	0	0
4/29/2024 22:12	40602	PIGR_T1	0	1	1	0	0.1	0.1	0.16	0.17	0	0	0	0	0	0
4/29/2024 22:12	53902	HALI_T2	1	1	0	5.8	5.3	-0.5	0	0	0	0	0	0	0	0
4/29/2024 22:12	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 22:12	20403	ASHF_T2	25	26	1	0.3	0.28	-0.02	0.82	0.68	0	0	0	0	0	0
4/29/2024 22:12	54701	NEBL_T1	2	0	-2	0.15	0	-0.15	0	0	1	1	0	600	600	0
4/29/2024 22:12	41801	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/29/2024 22:12	66502	SMAN_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
4/29/2024 22:12	40801	EXCH_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/29/2024 22:12	46203	DANV_T2	187	329	142	0.56	0.76	0.2	-1.96	-2	0	0	0	0	0	0
4/29/2024 22:12	59003	MIFF_T1	0	0	0	0	0	0	0.5	0.44	0	0	0	0	0	0
4/29/2024 22:12	40101	HUNT_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
4/29/2024 22:12	67805	WLAN_T1	58	201	143	0.15	0.16	0.01	0	0	0	0	0	0	0	0
4/29/2024 22:12	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
4/29/2024 22:12	59002	MIFF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/29/2024 22:12	25603	ARRO_T1	36	33	-3	0.26	0.19	-0.07	-0.17	-0.16	0	0	0	0	0	0
4/29/2024 22:12	57403	SPAN_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
4/29/2024 22:12	64101	REFR_T1	0	0	0	0	0	0	-0.93	-1	0	0	0	0	0	0
4/29/2024 22:12	41802	GOCI_T2	8	0	-8	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/29/2024 22:12	43202	MVIL_T2	59	94	35	0.49	1.04	0.55	-0.71	-0.71	0	0	0	0	0	0
4/29/2024 22:12	49804	UNIV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/29/2024 22:12	20401	ASHF_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/29/2024 22:12	43201	MVIL_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/29/2024 22:12	56802	BENV_T2	23	1	-22	0.19	0.5	0.31	-1.21	-1.34	0	0	0	0	0	0
4/29/2024 22:12	14204	EALL_T2	0	0	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
4/29/2024 22:12	67801	WLAN_T1	0	0	0	0	0	0	-0.17	0.43	0	0	0	0	0	0
4/29/2024 22:12	67802	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 22:12	13702	SCHN_T1	0	0	0	0	0	0	2.11	2.14	0	0	0	0	0	0
4/29/2024 22:13	43105	SMIL_T2	6	0	-6	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/29/2024 22:13	43108	SMIL_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
4/29/2024 22:13	60502	NMAN_T2	0	0	0	0	0	0	-0.07	-0.17	0	0	0	0	0	0
4/29/2024 22:13	53903	HALI_T2	2	2	0	1.6	0.9	-0.7	0	0	0	0	0	0	0	0
4/29/2024 22:13	54201	PENN_T1	6	6	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
4/29/2024 22:13	47401	PENS_T1	0	34	34	0	0.17	0.17	-0.16	-0.23	0	0	0	0	0	0
4/29/2024 22:13	53902	HALI_T2	1	1	0	5.8	5.3	-0.5	-0.19	-0.24	0	0	0	0	0	0
4/29/2024 22:13	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 22:13	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
4/29/2024 22:13	56802	BENV_T2	23	1	-22	0.19	0.5	0.31	-1.21	-1.34	0	0	0	0	0	0
4/29/2024 22:13	58001	WCAR_T1	4	4	0	0.43	0.35	-0.08	0	0	0	0	0	0	0	0
4/29/2024 22:13	52501	PROG_T1	0	0	0	0	0	0	-0.11	-0.08	1	1	0	300	300	0
4/29/2024 22:13	54203	PENN_T1	18	5	-13	0.66	0.74	0.08	0.34	0.34	0	0	0	0	0	0
4/29/2024 22:13	45702	LIND_T2	1	1	0	0.4	0.5	0.1	-0.49	-0.43	0	0	0	0	0	0
4/29/2024 22:13	58003	WCAR_T1	1	1	0	1.3	1	-0.3	0.77	0.73	0	0	0	0	0	0
4/29/2024 22:13	40505	CRES_T1	3	3	0	4.8	4.83	0.03	0	0	0	0	0	0	0	0
4/29/2024 22:13	51101	CARL_T1	0	0	0	0	0	0	-1.21	-1.26	1	1	0	600	600	0
4/29/2024 22:13	44504	HAMI_T2	0	0	0	0	0	0	-1.22	-1.21	0	0	0	0	0	0
4/29/2024 22:13	60501	NMAN_T2	3	3	0	4.5	4.3	-0.2	0	0	0	0	0	0	0	0
4/29/2024 22:13	40601	PIGR_T1	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
4/29/2024 22:13	45501	DERR_T2	0	0	0	0	0	0	-0.2	-0.21	2	2	0	1800	1800	0
4/29/2024 22:13	43103	SMIL_T2	16	11	-5	0.59	0.25	-0.34	0	0	0	0	0	0	0	0
4/29/2024 22:13	15001	BLMO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/29/2024 22:13	23001	SAJO_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
4/29/2024 22:13	14603	SWHI_T1	0	0	0	0	0	0	-0.73	-0.79	1	1	0	600	600	0
4/29/2024 22:13	53901	HALI_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
4/29/2024 22:13	44505	HAMI_T2	35	19	-16	0.53	0	-0.53	0	0	0	0	0	0	0	0
4/29/2024 22:13	62102	ELAN_T1	0	0	0	0	0	0	1.17	1.13	0	0	0	0	0	0
4/29/2024 22:13	60605	NCOL_T2	25	9	-16	0.55	0	-0.55	0	0	0	0	0	0	0	0
4/29/2024 22:13	44601	SALE_T2	1	1	0	0.6	0.6	0	0.13	0.13	0	0	0	0	0	0
4/29/2024 22:13	40801	EXCH_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
4/29/2024 22:13	46203	DANV_T2	187	329	142	0.56	0.76	0.2	-0.98	-1	0	0	0	0	0	0
4/29/2024 22:13	40802	EXCH_T2	4	0	-4	0.18	0	-0.18	-0.25	-0.22	0	0	0	0	0	0
4/29/2024 22:13	43102	SMIL_T2	6	4	-2	0.45	0.13	-0.32	0	0	0	0	0	0	0	0
4/29/2024 22:13	44502	HAMI_T2	1	1	0	3.5	3.7	0.2	0	0	0	0	0	0	0	0
4/29/2024 22:13	40504	CRES_T1	0	0	0	0	0	0	-0.34	-0.39	0	0	0	0	0	0
4/29/2024 22:13	40602	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 22:14	64101	REFR_T1	0	0	0	0	0	0	-1.86	-2.01	0	0	0	0	0	0
4/29/2024 22:14	43103	SMIL_T2	16	11	-5	0.59	0.25	-0.34	0	0	0	0	0	0	0	0
4/29/2024 22:14	42903	MIDD_T2	2	2	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
4/29/2024 22:14	40101	HUNT_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
4/29/2024 22:14	41802	GOCI_T2	8	0	-8	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/29/2024 22:14	41801	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/29/2024 22:14	43102	SMIL_T2	6	4	-2	0.45	0.13	-0.32	-0.76	-0.81	1	1	0	600	600	0
4/29/2024 22:14	54504	ENOL_T2	0	0	0	0	0	0	-0.69	-0.71	1	1	0	600	600	0
4/29/2024 22:14	41902	REED_T1	0	0	0	0	0	0	1.03	0.89	0	0	0	0	0	0
4/29/2024 22:14	43105	SMIL_T2	6	0	-6	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/29/2024 22:14	54701	NEBL_T1	2	0	-2	0.15	0	-0.15	0	0	1	1	0	600	600	0
4/29/2024 22:14	45501	DERR_T2	0	0	0	0	0	0	-0.2	-0.21	2	2	0	1800	1800	0
4/29/2024 22:14	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/29/2024 22:14	56801	BENV_T1	12	7	-5	0.83	0.84	0.01	-0.66	-0.69	1	1	0	600	600	0
4/29/2024 22:14	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
4/29/2024 22:14	42902	MIDD_T2	0	0	0	0	0	0	-1.14	-1.16	1	1	0	600	600	0
4/29/2024 22:14	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2024 22:14	46801	HEPB_T2	2	1	-1	0.6	0.1	-0.5	0.68	0.68	0	0	0	0	0	0
4/29/2024 22:15	52002	LING_T2	0	0	0	0	0	0	0.38	0.33	0	0	0	0	0	0
4/29/2024 22:15	55002	NEWP_T1	0	2	2	0	0.45	0.45	-0.24	-0.24	0	0	0	0	0	0
4/29/2024 22:15	54505	ENOL_T2	0	0	0	0	0	0	-0.98	-1.05	1	1	0	600	600	0
4/29/2024 22:15	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
4/29/2024 22:15	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/29/2024 22:15	59101	WALK_T2	0	0	0	0	0	0	0.95	0.82	1	1	0	600	600	0
4/29/2024 22:15	58402	MORO_T1	0	0	0	0	0	0	-0.33	-0.36	2	2	0	1500	1500	0
4/29/2024 22:15	44301	HEAV_T2	0	0	0	0	0	0	0.52	0.76	1	1	0	600	600	0
4/29/2024 22:15	67603	WARW_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
4/29/2024 22:15	63801	HEMP_T1	0	0	0	0	0	0	0.32	0.22	0	0	0	0	0	0
4/29/2024 22:15	63305	GREE_T1	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
4/29/2024 22:15	56501	ROCK_T2	2	2	0	0.1	0.45	0.35	-0.01	-0.01	0	0	0	0	0	0
4/29/2024 22:15	63304	GREE_T1	0	1	1	0	0.1	0.1	-1.46	-1.54	0	0	0	0	0	0
4/29/2024 22:15	54502	ENOL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/29/2024 22:15	41902	REED_T1	0	0	0	0	0	0	1.03	0.89	0	0	0	0	0	0
4/29/2024 22:15	58401	MORO_T1	0	0	0	0	0	0	-0.9	-0.96	1	1	0	600	600	0
4/29/2024 22:15	63804	HEMP_T1	1	1	0	6	5.6	-0.4	0	0	0	0	0	0	0	0
4/29/2024 22:15	45501	DERR_T2	0	0	0	0	0	0	-0.2	-0.21	2	2	0	1800	1800	0
4/29/2024 22:16	58402	MORO_T1	0	0	0	0	0	0	-0.33	-0.36	2	2	0	1500	1500	0
4/29/2024 22:16	52501	PROG_T1	0	0	0	0	0	0	-0.11	-0.08	1	1	0	300	300	0
4/29/2024 22:16	42903	MIDD_T2	2	0	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
4/29/2024 22:16	46203	DANV_T2	252	353	101	0.63	0.81	0.18	-0.98	-1	0	0	0	0	0	0
4/29/2024 22:16	55002	NEWP_T1	0	2	2	0	0.45	0.45	-0.24	-0.24	0	0	0	0	0	0
4/29/2024 22:16	56802	BENV_T2	1	31	30	0.4	0.15	-0.25	-1.21	-1.34	0	0	0	0	0	0
4/29/2024 22:16	42902	MIDD_T2	0	0	0	0	0	0	-1.14	-1.16	1	1	0	600	600	0
4/29/2024 22:16	59101	WALK_T2	0	0	0	0	0	0	0.95	0.82	1	1	0	600	600	0
4/29/2024 22:17	59002	MIFF_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/29/2024 22:17	59003	MIFF_T1	0	1	1	0	0.4	0.4	0.5	0.44	0	0	0	0	0	0
4/29/2024 22:17	54206	PENN_T2	0	0	0	0	0	0	0.19	-0.13	0	0	0	0	0	0
4/29/2024 22:17	45702	LIND_T2	1	1	0	0.3	0.5	0.2	-0.49	-0.43	0	0	0	0	0	0
4/29/2024 22:18	51402	LYKE_T1	0	0	0	0	0	0	-1.42	-1.47	1	1	0	600	600	0
4/29/2024 22:18	40101	HUNT_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
4/29/2024 22:21	41502	FAIR_T2	0	0	0	0	0	0	-0.65	-0.62	0	0	0	0	0	0
4/29/2024 22:24	43202	MVIL_T2	85	98	13	0.65	1.25	0.6	-0.71	-0.71	0	0	0	0	0	0
4/29/2024 22:26	65502	MOJO_T2	0	0	0	0	0	0	-1.55	-1.58	1	1	0	900	900	0
4/29/2024 22:28	13502	MCMI_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
4/29/2024 22:30	64101	REFR_T1	0	0	0	0	0	0	-1	-1.09	0	0	0	0	0	0
4/29/2024 22:52	66505	SMAN_T2	0	0	0	0	0	0	0.17	0.18	2	2	0	1500	1500	0
4/29/2024 23:54	41901	REED_T1	5	5	0	0.42	0.5	0.08	0	0	0	0	0	0	0	0
4/29/2024 23:54	41903	REED_T1	0	0	0	0	0	0	-0.09	-0.23	1	1	0	1200	1200	0
4/30/2024 1:47	44505	HAMI_T2	0	0	0	0	0	0	0.18	0.1	0	0	0	0	0	0
4/30/2024 1:47	44502	HAMI_T2	1	1	0	4	4	0	0	0	0	0	0	0	0	0
4/30/2024 1:50	44502	HAMI_T2	1	1	0	4	4	0	0	0	0	0	0	0	0	0
4/30/2024 1:50	44505	HAMI_T2	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
4/30/2024 2:02	44502	HAMI_T2	1	1	0	4	4.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 2:02	44505	HAMI_T2	0	0	0	0	0	0	0.05	0.09	0	0	0	0	0	0
4/30/2024 2:03	44502	HAMI_T2	1	1	0	4	4.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 2:03	44505	HAMI_T2	0	0	0	0	0	0	0.05	0.09	0	0	0	0	0	0
4/30/2024 2:05	44502	HAMI_T2	1	1	0	4	4.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 2:05	44505	HAMI_T2	0	0	0	0	0	0	0.05	0.09	0	0	0	0	0	0
4/30/2024 4:44	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 6:55	15001	BLMO_T1	3	4	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/30/2024 6:57	62102	ELAN_T1	0	0	0	0	0	0	0.69	0.58	0	0	0	0	0	0
4/30/2024 7:01	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 7:01	21206	ECAR_T2	1	1	0	7.1	7.8	0.7	1.39	1.35	0	0	0	0	0	0
4/30/2024 7:05	67503	WEWI_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
4/30/2024 7:08	67703	WERN_T2	0	0	0	0	0	0	-0.84	-0.82	1	1	0	900	900	0
4/30/2024 7:09	67703	WERN_T2	0	0	0	0	0	0	-0.84	-0.82	1	1	0	900	900	0
4/30/2024 7:11	67703	WERN_T2	0	0	0	0	0	0	-0.84	-0.82	1	1	0	900	900	0
4/30/2024 7:18	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 7:19	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 7:23	56803	BENV_T1	1	3	2	0.1	0.1	0	-0.97	-1.11	2	2	0	1200	1200	0
4/30/2024 7:23	56801	BENV_T1	21	24	3	0.75	0.78	0.03	0	0	0	0	0	0	0	0
4/30/2024 7:24	46206	DANV_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/30/2024 7:24	46203	DANV_T2	166	179	13	0.43	0.72	0.29	-2.37	-2.41	0	0	0	0	0	0
4/30/2024 7:25	56801	BENV_T1	21	24	3	0.75	0.78	0.03	0	0	0	0	0	0	0	0
4/30/2024 7:25	56803	BENV_T1	1	3	2	0.1	0.1	0	-0.48	-0.56	1	1	0	600	600	0
4/30/2024 7:27	56801	BENV_T1	21	24	3	0.75	0.78	0.03	0	0	0	0	0	0	0	0
4/30/2024 7:27	56803	BENV_T1	1	3	2	0.1	0.1	0	-0.48	-0.56	1	1	0	600	600	0
4/30/2024 7:29	41502	FAIR_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
4/30/2024 7:30	46801	HEPB_T2	2	2	0	0.2	0.8	0.6	0.52	0.57	0	0	0	0	0	0
4/30/2024 7:37	67605	WARW_T1	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
4/30/2024 7:38	15001	BLMO_T1	4	4	0	0.18	0.38	0.2	0	0	0	0	0	0	0	0
4/30/2024 7:41	45502	DERR_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
4/30/2024 7:41	45501	DERR_T2	1	1	0	0.4	0.4	0	0.96	0.86	2	2	0	1800	1800	0
4/30/2024 7:41	67605	WARW_T1	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
4/30/2024 7:41	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 7:41	62605	ENGL_T1	0	0	0	0	0	0	-1.06	-1.08	0	0	0	0	0	0
4/30/2024 7:42	45802	HEGI_T2	12	5	-7	0.62	0.1	-0.52	0.65	0.71	1	1	0	900	900	0
4/30/2024 7:43	46203	DANV_T2	174	179	5	0.56	0.71	0.15	-2.41	-2.4	0	0	0	0	0	0
4/30/2024 7:43	46206	DANV_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/30/2024 7:43	45502	DERR_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
4/30/2024 7:43	45501	DERR_T2	1	1	0	0.4	0.4	0	0.96	0.86	2	2	0	1800	1800	0
4/30/2024 7:44	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 7:44	62605	ENGL_T1	0	0	0	0	0	0	-1.06	-1.08	0	0	0	0	0	0
4/30/2024 7:44	45702	LIND_T2	1	1	0	0.7	0.3	-0.4	-0.41	-0.43	0	0	0	0	0	0
4/30/2024 7:47	45802	HEGI_T2	5	13	8	0.28	0.39	0.11	0.65	0.71	1	1	0	900	900	0
4/30/2024 7:49	45702	LIND_T2	1	1	0	0.2	0.4	0.2	-0.41	-0.43	0	0	0	0	0	0
4/30/2024 7:50	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.02	0	0	0	0	0	0
4/30/2024 7:51	14603	SWHI_T1	0	0	0	0	0	0	-1	-1.07	1	1	0	600	600	0
4/30/2024 7:54	63804	HEMP_T1	1	1	0	6.4	6.6	0.2	0	0	0	0	0	0	0	0
4/30/2024 7:54	63803	HEMP_T1	7	0	-7	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/30/2024 7:54	63802	HEMP_T1	0	0	0	0	0	0	0.24	0.29	0	0	0	0	0	0
4/30/2024 7:55	63804	HEMP_T1	1	1	0	6.4	6.6	0.2	0	0	0	0	0	0	0	0
4/30/2024 7:55	63803	HEMP_T1	7	0	-7	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/30/2024 7:55	63802	HEMP_T1	0	0	0	0	0	0	0.24	0.29	0	0	0	0	0	0
4/30/2024 7:59	12006	HATF_T1	0	0	0	0	0	0	0.45	0.48	1	1	0	1200	1200	0
4/30/2024 8:00	47802	MOCA_T2	0	0	0	0	0	0	-0.75	-0.88	0	0	0	0	0	0
4/30/2024 8:02	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 8:04	57403	SPAN_T1	0	7	7	0	0.14	0.14	0	0	0	0	0	0	0	0
4/30/2024 8:04	13503	MCMI_T2	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
4/30/2024 8:04	57401	SPAN_T1	0	3	3	0	0.13	0.13	-2.82	-2.65	2	2	0	1200	1200	0
4/30/2024 8:04	47802	MOCA_T2	0	0	0	0	0	0	-0.75	-0.88	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/30/2024 8:05	66503	SMAN_T2	0	0	0	0	0	0	0.43	0.53	0	0	0	0	0	0
4/30/2024 8:05	44502	HAMI_T2	1	1	0	2.9	2.8	-0.1	0	0	0	0	0	0	0	0
4/30/2024 8:05	44505	HAMI_T2	2	4	2	1.15	0.6	-0.55	0.11	0.12	0	0	0	0	0	0
4/30/2024 8:06	44505	HAMI_T2	2	4	2	1.15	0.6	-0.55	0.11	0.12	0	0	0	0	0	0
4/30/2024 8:06	44502	HAMI_T2	1	1	0	2.9	2.8	-0.1	0	0	0	0	0	0	0	0
4/30/2024 8:06	66902	SHIL_T2	0	0	0	0	0	0	-5.16	-5.08	0	0	0	0	0	0
4/30/2024 8:07	66902	SHIL_T2	0	0	0	0	0	0	-2.58	-2.54	0	0	0	0	0	0
4/30/2024 8:11	46206	DANV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/30/2024 8:11	46203	DANV_T2	152	2	-150	0.37	0.1	-0.27	0.15	0.25	0	0	0	0	0	0
4/30/2024 8:13	53601	DALM_T2	1	1	0	0.1	0.4	0.3	0.02	0	0	0	0	0	0	0
4/30/2024 8:16	45702	LIND_T2	1	1	0	0.4	0.1	-0.3	-0.43	-0.38	0	0	0	0	0	0
4/30/2024 8:17	50501	MECH_T1	4	4	0	1.33	1.3	-0.03	-1	-0.92	0	0	0	0	0	0
4/30/2024 8:17	50502	MECH_T1	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
4/30/2024 8:18	43202	MVIL_T2	94	95	1	0.92	1.07	0.15	-0.63	-0.62	0	0	0	0	0	0
4/30/2024 8:20	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.27	0	0	0	0	0	0
4/30/2024 8:21	45901	AUBU_T1	0	0	0	0	0	0	1.82	1.86	0	0	0	0	0	0
4/30/2024 8:21	67804	WLAN_T1	0	0	0	0	0	0	-1.06	-1.04	0	0	0	0	0	0
4/30/2024 8:22	15204	SFAR_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
4/30/2024 8:22	67805	WLAN_T1	0	0	0	0	0	0	-0.87	-0.78	0	0	0	0	0	0
4/30/2024 8:23	67804	WLAN_T1	0	0	0	0	0	0	-3.13	-3.16	0	0	0	0	0	0
4/30/2024 8:23	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.27	0	0	0	0	0	0
4/30/2024 8:23	67803	WLAN_T1	0	0	0	0	0	0	-0.86	-0.82	0	0	0	0	0	0
4/30/2024 8:24	56802	BENV_T2	146	165	19	0.23	0.24	0.01	-1.4	-1.35	0	0	0	0	0	0
4/30/2024 8:24	67803	WLAN_T1	0	0	0	0	0	0	-0.86	-0.82	0	0	0	0	0	0
4/30/2024 8:24	67804	WLAN_T1	0	0	0	0	0	0	-1.04	-1.05	0	0	0	0	0	0
4/30/2024 8:24	67801	WLAN_T1	0	0	0	0	0	0	0.28	0.23	0	0	0	0	0	0
4/30/2024 8:25	14201	EALL_T1	1	0	-1	7.3	0	-7.3	0	0	0	0	0	0	0	0
4/30/2024 8:25	67804	WLAN_T1	0	0	0	0	0	0	-1.04	-1.05	0	0	0	0	0	0
4/30/2024 8:25	67802	WLAN_T1	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
4/30/2024 8:25	67803	WLAN_T1	0	0	0	0	0	0	-2.58	-2.46	0	0	0	0	0	0
4/30/2024 8:25	14203	EALL_T1	0	0	0	0	0	0	-0.08	-0.14	1	1	0	1200	1200	0
4/30/2024 8:26	29402	BELT_T1	1	1	0	8.4	8.6	0.2	0	0	0	0	0	0	0	0
4/30/2024 8:26	56802	BENV_T2	146	165	19	0.23	0.24	0.01	-2.8	-2.7	0	0	0	0	0	0
4/30/2024 8:26	29401	BELT_T1	47	34	-13	0.19	0.14	-0.05	0	0	1	1	0	900	900	0
4/30/2024 8:26	67803	WLAN_T1	0	0	0	0	0	0	-0.86	-0.82	0	0	0	0	0	0
4/30/2024 8:27	61704	ELIZ_T2	5	5	0	0.54	0.48	-0.06	0	0	0	0	0	0	0	0
4/30/2024 8:27	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.38	-0.25	0	0	0	0	0	0
4/30/2024 8:27	61702	ELIZ_T2	0	0	0	0	0	0	-2.01	-1.96	2	2	0	1500	1500	0
4/30/2024 8:27	67804	WLAN_T1	0	0	0	0	0	0	-1.04	-1.05	0	0	0	0	0	0
4/30/2024 8:28	64702	LITI_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
4/30/2024 8:32	64101	REFR_T1	0	0	0	0	0	0	-0.34	-0.96	0	0	0	0	0	0
4/30/2024 8:32	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.38	-0.25	0	0	0	0	0	0
4/30/2024 8:33	46504	LOHA_T1	2	2	0	0.95	0.75	-0.2	0	0	0	0	0	0	0	0
4/30/2024 8:33	64702	LITI_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
4/30/2024 8:33	46506	LOHA_T1	1	1	0	0.2	0.4	0.2	-0.43	-0.41	0	0	0	0	0	0
4/30/2024 8:33	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 8:34	45701	LIND_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
4/30/2024 8:34	64101	REFR_T1	0	0	0	0	0	0	-1.03	-2.88	0	0	0	0	0	0
4/30/2024 8:34	44505	HAMI_T2	2	2	0	0.6	0.7	0.1	0.22	0.2	0	0	0	0	0	0
4/30/2024 8:34	44502	HAMI_T2	1	2	1	2.5	2.5	0	0	0	0	0	0	0	0	0
4/30/2024 8:34	45702	LIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 8:35	57401	SPAN_T1	3	1	-2	0.13	0.2	0.07	0	0	0	0	0	0	0	0
4/30/2024 8:35	57403	SPAN_T1	1	1	0	0.1	0.2	0.1	0.04	0.03	0	0	0	0	0	0
4/30/2024 8:35	64101	REFR_T1	0	0	0	0	0	0	-0.69	-1.92	0	0	0	0	0	0
4/30/2024 8:35	60605	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 8:36	59102	WALK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/30/2024 8:36	59101	WALK_T2	0	0	0	0	0	0	2.11	2.55	0	0	0	0	0	0
4/30/2024 8:36	67703	WERN_T2	0	0	0	0	0	0	-0.79	-0.72	1	1	0	900	900	0
4/30/2024 8:37	44505	HAMI_T2	2	2	0	0.6	0.7	0.1	0.11	0.1	0	0	0	0	0	0
4/30/2024 8:37	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.38	-0.25	0	0	0	0	0	0
4/30/2024 8:37	44502	HAMI_T2	1	2	1	2.5	2.5	0	0	0	0	0	0	0	0	0
4/30/2024 8:39	45902	AUBU_T1	0	0	0	0	0	0	-0.6	-0.63	1	1	0	600	600	0
4/30/2024 8:39	59102	WALK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/30/2024 8:39	59101	WALK_T2	0	0	0	0	0	0	2.55	2.2	0	0	0	0	0	0
4/30/2024 8:39	56802	BENV_T2	110	384	274	0.19	0.35	0.16	-1.35	-1.34	0	0	0	0	0	0
4/30/2024 8:39	60802	BUCK_T2	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
4/30/2024 8:40	43304	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
4/30/2024 8:40	56802	BENV_T2	110	384	274	0.19	0.35	0.16	-4.05	-4.02	0	0	0	0	0	0
4/30/2024 8:40	45902	AUBU_T1	0	0	0	0	0	0	-0.6	-0.63	1	1	0	600	600	0
4/30/2024 8:41	40802	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 8:41	56801	BENV_T1	10	21	11	0.89	0.86	-0.03	0	0	0	0	0	0	0	0
4/30/2024 8:41	56802	BENV_T2	110	384	274	0.19	0.35	0.16	-1.35	-1.34	0	0	0	0	0	0
4/30/2024 8:41	45902	AUBU_T1	0	0	0	0	0	0	-0.6	-0.63	1	1	0	600	600	0
4/30/2024 8:41	56803	BENV_T2	0	10	10	0	0.28	0.28	-0.5	-0.38	1	1	0	600	600	0
4/30/2024 8:41	40801	EXCH_T2	3	4	1	0.1	0.13	0.03	-0.38	-0.37	1	1	0	1200	1200	0
4/30/2024 8:42	56802	BENV_T2	110	384	274	0.19	0.35	0.16	-2.7	-2.68	0	0	0	0	0	0
4/30/2024 8:42	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.25	-0.29	0	0	0	0	0	0
4/30/2024 8:42	56801	BENV_T1	10	21	11	0.89	0.86	-0.03	0	0	0	0	0	0	0	0
4/30/2024 8:42	56803	BENV_T2	0	10	10	0	0.28	0.28	-0.5	-0.38	1	1	0	600	600	0
4/30/2024 8:43	44502	HAMI_T2	1	2	1	2.5	2.5	0	0	0	0	0	0	0	0	0
4/30/2024 8:43	44505	HAMI_T2	2	2	0	0.6	0.7	0.1	0.1	0.13	0	0	0	0	0	0
4/30/2024 8:44	40802	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 8:44	40801	EXCH_T2	3	4	1	0.1	0.13	0.03	-0.38	-0.37	1	1	0	1200	1200	0
4/30/2024 8:45	55002	NEWP_T1	7	12	5	0.64	0.63	-0.01	-0.23	-0.19	0	0	0	0	0	0
4/30/2024 8:45	45902	AUBU_T1	0	0	0	0	0	0	-0.6	-0.63	1	1	0	600	600	0
4/30/2024 8:46	58402	MORO_T1	0	0	0	0	0	0	-1	-1	3	3	0	2400	2400	0
4/30/2024 8:46	45902	AUBU_T1	0	0	0	0	0	0	-0.6	-0.63	1	1	0	600	600	0
4/30/2024 8:46	55002	NEWP_T1	7	12	5	0.64	0.63	-0.01	-0.23	-0.19	0	0	0	0	0	0
4/30/2024 8:48	44502	HAMI_T2	1	1	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
4/30/2024 8:48	44505	HAMI_T2	2	2	0	0.7	0.85	0.15	0.1	0.13	0	0	0	0	0	0
4/30/2024 8:49	55002	NEWP_T1	7	12	5	0.64	0.63	-0.01	-0.23	-0.19	0	0	0	0	0	0
4/30/2024 8:52	67605	WARW_T1	1	0	-1	0.1	0	-0.1	-0.25	-0.29	0	0	0	0	0	0
4/30/2024 8:53	58402	MORO_T1	0	0	0	0	0	0	-1	-0.97	3	3	0	2400	2400	0
4/30/2024 8:53	67805	WLAN_T1	0	0	0	0	0	0	-0.71	-0.68	0	0	0	0	0	0
4/30/2024 8:54	44505	HAMI_T2	2	2	0	0.7	0.85	0.15	0.13	0.14	0	0	0	0	0	0
4/30/2024 8:54	67605	WARW_T1	1	0	-1	0.1	0	-0.1	-0.29	-0.24	0	0	0	0	0	0
4/30/2024 8:54	44502	HAMI_T2	1	1	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
4/30/2024 8:56	67805	WLAN_T1	0	0	0	0	0	0	-0.71	-0.68	0	0	0	0	0	0
4/30/2024 8:57	67703	WERN_T2	0	0	0	0	0	0	-0.74	-0.73	1	1	0	900	900	0
4/30/2024 8:57	41801	GOCI_T2	3	11	8	0.17	0.25	0.08	0	0	0	0	0	0	0	0
4/30/2024 8:57	67605	WARW_T1	1	0	-1	0.1	0	-0.1	-0.29	-0.24	0	0	0	0	0	0
4/30/2024 8:58	67604	WARW_T1	0	0	0	0	0	0	0.19	0.16	0	0	0	0	0	0
4/30/2024 8:58	67605	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/30/2024 8:59	55002	NEWP_T1	7	12	5	0.64	0.63	-0.01	-0.19	-0.2	0	0	0	0	0	0
4/30/2024 8:59	41801	GOCI_T2	3	11	8	0.17	0.25	0.08	0	0	0	0	0	0	0	0
4/30/2024 8:59	40101	HUNT_T2	0	1	1	0	0	0	-0.13	-0.06	0	0	0	0	0	0
4/30/2024 9:01	46504	LOHA_T1	2	2	0	0.45	0.25	-0.2	0	-0.2	0	0	0	0	0	0
4/30/2024 9:01	46506	LOHA_T1	1	1	0	0.4	0.6	0.2	-0.81	-0.66	0	0	0	0	0	0
4/30/2024 9:02	64204	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
4/30/2024 9:02	64201	KINZ_T1	0	0	0	0	0	0	-0.1	-0.18	4	4	0	2100	2100	0
4/30/2024 9:03	48302	ORWI_T2	2	2	0	1.05	1.05	0	0.03	0.07	0	0	0	0	0	0
4/30/2024 9:04	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/30/2024 9:04	67204	TEHI_T2	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
4/30/2024 9:06	46301	ROHR_T1	115	130	15	0.22	0.23	0.01	0	0	0	0	0	0	0	0
4/30/2024 9:06	44502	HAMI_T2	1	1	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
4/30/2024 9:06	14404	SSLA_T1	2	1	-1	3.05	6.1	3.05	-0.06	-0.06	0	0	0	0	0	0
4/30/2024 9:06	46302	ROHR_T1	8	10	2	1.44	1.26	-0.18	0.11	0.11	0	0	0	0	0	0
4/30/2024 9:06	44505	HAMI_T2	2	3	1	0.9	0.77	-0.13	0.13	0.14	0	0	0	0	0	0
4/30/2024 9:07	46301	ROHR_T1	115	130	15	0.22	0.23	0.01	0	0	0	0	0	0	0	0
4/30/2024 9:07	46302	ROHR_T1	8	10	2	1.44	1.26	-0.18	0.11	0.11	0	0	0	0	0	0
4/30/2024 9:07	40101	HUNT_T2	0	0	0	0	0	0	-0.13	-0.06	0	0	0	0	0	0
4/30/2024 9:07	63401	HONY_T1	0	0	0	0	0	0	1.03	0.98	0	0	0	0	0	0
4/30/2024 9:09	56803	BENV_T1	10	6	-4	0.29	0.33	0.04	-0.4	-0.4	1	1	0	600	600	0
4/30/2024 9:09	56801	BENV_T1	21	27	6	0.86	0.74	-0.12	0	0	0	0	0	0	0	0
4/30/2024 9:10	56802	BENV_T2	384	23	-361	0.35	0.2	-0.15	-0.59	-0.57	0	0	0	0	0	0
4/30/2024 9:10	56803	BENV_T1	10	6	-4	0.29	0.33	0.04	-0.81	-0.79	2	2	0	1200	1200	0
4/30/2024 9:10	44502	HAMI_T2	1	1	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
4/30/2024 9:10	67603	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 9:10	44505	HAMI_T2	2	3	1	0.9	0.77	-0.13	0.14	0.13	0	0	0	0	0	0
4/30/2024 9:10	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.24	-0.27	0	0	0	0	0	0
4/30/2024 9:10	56801	BENV_T1	21	27	6	0.86	0.74	-0.12	0	0	0	0	0	0	0	0
4/30/2024 9:11	56802	BENV_T2	384	23	-361	0.35	0.2	-0.15	-0.59	-0.57	0	0	0	0	0	0
4/30/2024 9:12	56803	BENV_T1	10	6	-4	0.29	0.33	0.04	-0.4	-0.4	1	1	0	600	600	0
4/30/2024 9:12	67603	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 9:12	56801	BENV_T1	21	27	6	0.86	0.74	-0.12	0	0	0	0	0	0	0	0
4/30/2024 9:12	63401	HONY_T1	0	0	0	0	0	0	0.98	0.94	0	0	0	0	0	0
4/30/2024 9:12	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.24	-0.27	0	0	0	0	0	0
4/30/2024 9:13	59102	WALK_T2	1	447	446	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/30/2024 9:13	56802	BENV_T2	384	23	-361	0.35	0.2	-0.15	-1.18	-1.14	0	0	0	0	0	0
4/30/2024 9:13	59101	WALK_T2	0	1681	1681	0	4	4	0.74	0.71	0	0	0	0	0	0
4/30/2024 9:13	41801	GOCI_T2	9	45	36	0.26	0.21	-0.05	0	0	0	0	0	0	0	0
4/30/2024 9:15	40101	HUNT_T2	0	0	0	0	0	0	-0.06	-0.11	0	0	0	0	0	0
4/30/2024 9:17	67603	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 9:17	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.24	-0.27	0	0	0	0	0	0
4/30/2024 9:19	13901	SEID_T1	0	0	0	0	0	0	0	0.29	0	0	0	0	0	0
4/30/2024 9:19	41902	REED_T1	0	0	0	0	0	0	1.26	1.24	0	0	0	0	0	0
4/30/2024 9:20	47401	PENS_T1	3	6	3	0.8	0.74	-0.06	2.38	2.52	0	0	0	0	0	0
4/30/2024 9:20	47402	PENS_T1	1	2	1	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
4/30/2024 9:20	57403	SPAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/30/2024 9:20	57401	SPAN_T1	2	1	-1	3.3	2.9	-0.4	-2.56	-2.67	2	2	0	1200	1200	0
4/30/2024 9:21	44505	HAMI_T2	2	3	1	0.95	2.57	1.62	0.14	0.13	0	0	0	0	0	0
4/30/2024 9:21	47402	PENS_T1	1	2	1	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
4/30/2024 9:21	44502	HAMI_T2	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
4/30/2024 9:21	47401	PENS_T1	3	6	3	0.8	0.74	-0.06	1.19	1.26	0	0	0	0	0	0
4/30/2024 9:21	41902	REED_T1	0	0	0	0	0	0	1.26	1.24	0	0	0	0	0	0
4/30/2024 9:22	44601	SALE_T2	0	0	0	0	0	0	2.4	1.05	2	2	0	1200	1200	0
4/30/2024 9:24	56802	BENV_T2	23	7	-16	0.2	0.41	0.21	-0.57	-0.56	0	0	0	0	0	0
4/30/2024 9:25	57401	SPAN_T1	2	1	-1	3.3	2.9	-0.4	-1.34	-1.18	1	1	0	600	600	0
4/30/2024 9:25	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 9:25	45902	AUBU_T1	0	0	0	0	0	0	-1.3	-1.1	2	2	0	1200	1200	0
4/30/2024 9:25	59101	WALK_T2	0	0	0	0	0	0	0.71	0.39	0	0	0	0	0	0
4/30/2024 9:25	57403	SPAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/30/2024 9:26	45902	AUBU_T1	0	0	0	0	0	0	-0.65	-0.55	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/30/2024 9:26	57401	SPAN_T1	2	1	-1	3.3	2.9	-0.4	-1.34	-1.18	1	1	0	600	600	0
4/30/2024 9:26	57403	SPAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/30/2024 9:26	43202	MVIL_T2	83	90	7	0.53	0.69	0.16	-0.55	-0.54	0	0	0	0	0	0
4/30/2024 9:27	44502	HAMI_T2	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
4/30/2024 9:27	44505	HAMI_T2	2	3	1	0.95	2.57	1.62	0.13	0.14	0	0	0	0	0	0
4/30/2024 9:31	47901	HRDG_T1	0	0	0	0	0	0	1.78	1.71	1	1	0	1200	1200	0
4/30/2024 9:34	65503	MOJO_T2	0	0	0	0	0	0	-0.72	-0.61	1	1	0	900	900	0
4/30/2024 9:35	64204	KINZ_T1	1	2	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
4/30/2024 9:35	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.19	2	2	0	900	900	0
4/30/2024 9:37	66505	SMAN_T2	0	0	0	0	0	0	0.73	0.95	1	1	0	900	900	0
4/30/2024 9:37	44502	HAMI_T2	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
4/30/2024 9:37	44505	HAMI_T2	3	6	3	2.57	3.37	0.8	0.13	0.14	0	0	0	0	0	0
4/30/2024 9:37	66502	SMAN_T2	2	1	-1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
4/30/2024 9:40	64101	REFR_T1	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
4/30/2024 9:40	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
4/30/2024 9:41	67605	WARW_T1	1	0	-1	0.1	0	-0.1	-0.2	-0.21	0	0	0	0	0	0
4/30/2024 9:41	67602	WARW_T2	0	0	0	0	0	0	-0.02	-0.02	6	6	0	4500	4500	0
4/30/2024 9:41	67603	WARW_T1	1	0	-1	8.6	0	-8.6	0	0	0	0	0	0	0	0
4/30/2024 9:42	44502	HAMI_T2	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
4/30/2024 9:42	44505	HAMI_T2	3	6	3	2.57	3.37	0.8	0.14	0.14	0	0	0	0	0	0
4/30/2024 9:44	64702	LITI_T2	0	0	0	0	0	0	-0.47	-0.51	0	0	0	0	0	0
4/30/2024 9:45	13502	MCMI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 9:45	13501	MCMI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 9:49	47402	PENS_T1	2	1	-1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
4/30/2024 9:49	44505	HAMI_T2	3	4	1	3.47	2.6	-0.87	0.14	0.14	0	0	0	0	0	0
4/30/2024 9:49	47403	PENS_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
4/30/2024 9:49	47401	PENS_T1	5	4	-1	0.74	1.03	0.29	1.33	1.29	0	0	0	0	0	0
4/30/2024 9:49	44502	HAMI_T2	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
4/30/2024 9:50	50701	SMEC_T1	1	3	2	0.3	0.47	0.17	-0.59	-0.45	0	0	0	0	0	0
4/30/2024 9:51	47403	PENS_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
4/30/2024 9:51	47401	PENS_T1	5	4	-1	0.74	1.03	0.29	1.33	1.29	0	0	0	0	0	0
4/30/2024 9:51	47402	PENS_T1	2	1	-1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
4/30/2024 9:52	47401	PENS_T1	5	4	-1	0.74	1.03	0.29	1.33	1.29	0	0	0	0	0	0
4/30/2024 9:52	50701	SMEC_T1	1	3	2	0.3	0.47	0.17	-0.59	-0.45	0	0	0	0	0	0
4/30/2024 9:52	47403	PENS_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
4/30/2024 9:52	47402	PENS_T1	2	1	-1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
4/30/2024 9:53	44502	HAMI_T2	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
4/30/2024 9:53	44505	HAMI_T2	3	4	1	3.47	2.6	-0.87	0.14	0.14	0	0	0	0	0	0
4/30/2024 9:54	24901	WHHA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
4/30/2024 9:54	24902	WHHA_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
4/30/2024 9:57	44301	BEAV_T2	2	3	1	1.05	1.2	0.15	0.4	0.52	2	2	0	1500	1500	0
4/30/2024 10:00	64204	KINZ_T1	2	1	-1	0.3	0.8	0.5	0	0	0	0	0	0	0	0
4/30/2024 10:00	24701	FLND_T2	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
4/30/2024 10:00	24102	EHAZ_T1	2	3	1	1.1	0.37	-0.73	0	0	0	0	0	0	0	0
4/30/2024 10:00	40505	CRES_T1	3	3	0	4.8	4.67	-0.13	0.46	0.43	0	0	0	0	0	0
4/30/2024 10:00	63803	HEMP_T1	1	3	2	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
4/30/2024 10:00	10805	CHHI_T2	1	1	0	8.3	8.1	-0.2	-0.86	-0.91	1	1	0	600	600	0
4/30/2024 10:00	67502	WEWI_T2	1	2	1	0.4	1.05	0.65	0	0	0	0	0	0	0	0
4/30/2024 10:00	63801	HEMP_T1	4	6	2	0.18	0.17	-0.01	1.06	0.46	0	0	0	0	0	0
4/30/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.59	-0.4	0	0	0	0	0	0
4/30/2024 10:00	65702	RVIL_T2	0	0	0	0	0	0	-0.71	-0.66	1	1	0	600	600	0
4/30/2024 10:00	59002	MIFF_T1	0	5	5	0	0.24	0.24	0	0	0	0	0	0	0	0
4/30/2024 10:00	42001	MNVL_T2	1	2	1	0.2	0.1	-0.1	0.12	0.12	0	0	0	0	0	0
4/30/2024 10:00	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 10:00	57106	SPHI_T2	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
4/30/2024 10:00	53901	HALI_T2	1	1	0	0.3	0.2	-0.1	-0.88	-0.9	0	0	0	0	0	0
4/30/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.76	-0.75	1	1	0	900	900	0
4/30/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-1.23	-0.93	2	2	0	2100	2100	0
4/30/2024 10:00	15001	BLMO_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/30/2024 10:00	60803	BUCK_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 10:00	56803	BENV_T1	2	3	1	0.25	0.63	0.38	-0.4	-0.35	1	1	0	600	600	0
4/30/2024 10:00	59003	MIFF_T1	0	1	1	0	0.5	0.5	-0.24	-0.81	0	0	0	0	0	0
4/30/2024 10:00	51002	NHAR_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/30/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	0.23	0.16	0	0	0	0	0	0
4/30/2024 10:00	66503	SMAN_T2	0	0	0	0	0	0	0.59	0.66	0	0	0	0	0	0
4/30/2024 10:00	42903	MIDD_T2	0	0	0	0	0	0	0.92	1.17	1	1	0	1200	1200	0
4/30/2024 10:00	57104	SPHI_T2	1	1	0	0.8	0.2	-0.6	-1.71	-1.69	1	1	0	900	900	0
4/30/2024 10:00	65002	NEFF_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/30/2024 10:00	58003	WCAR_T1	3	1	-2	0.5	1	0.5	0.32	0.36	1	1	0	600	600	0
4/30/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	1.26	1.27	0	0	0	0	0	0
4/30/2024 10:00	57101	SPHI_T2	6	6	0	0.85	0.5	-0.35	0	0	0	0	0	0	0	0
4/30/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
4/30/2024 10:00	17101	WTRE_T2	2	2	0	7.65	8.15	0.5	0	0	0	0	0	0	0	0
4/30/2024 10:00	24105	EHAZ_T1	4	5	1	5.75	5.6	-0.15	-1.82	-1.81	1	1	0	1200	1200	0
4/30/2024 10:00	62605	ENGL_T1	0	0	0	0	0	0	-0.97	-0.93	0	0	0	0	0	0
4/30/2024 10:00	12505	MITR_T2	0	0	0	0	0	0	1.22	1.3	0	0	0	0	0	0
4/30/2024 10:00	47002	HUGH_T2	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
4/30/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
4/30/2024 10:00	42002	MNVL_T2	1	1	0	5.2	5.5	0.3	0	0	0	0	0	0	0	0
4/30/2024 10:00	24101	EHAZ_T1	5	3	-2	0.18	0	-0.18	0	0	0	0	0	0	0	0
4/30/2024 10:00	67703	WERN_T2	0	0	0	0	0	0	-0.66	-0.65	1	1	0	900	900	0
4/30/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
4/30/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	-0.28	-0.27	2	2	0	1200	1200	0
4/30/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	0.05	0.1	1	1	0	1200	1200	0
4/30/2024 10:00	44502	HAMI_T2	1	1	0	2.3	2.1	-0.2	-0.74	-0.75	0	0	0	0	0	0
4/30/2024 10:00	50701	SMEC_T1	2	3	1	0.2	0.5	0.3	-0.45	-0.4	0	0	0	0	0	0
4/30/2024 10:00	60501	NMAN_T2	3	3	0	4.03	4.27	0.24	0	0	0	0	0	0	0	0
4/30/2024 10:00	12502	MITR_T2	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
4/30/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	0.1	-0.02	0	0	0	0	0	0
4/30/2024 10:00	10801	CHHI_T1	0	0	0	0	0	0	-0.8	-0.78	1	1	0	900	900	0
4/30/2024 10:00	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/30/2024 10:00	59001	MIFF_T1	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
4/30/2024 10:00	24702	FLND_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
4/30/2024 10:00	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	600	600	0
4/30/2024 10:00	44505	HAMI_T2	4	2	-2	1.58	1.4	-0.18	0.71	0.66	0	0	0	0	0	0
4/30/2024 10:00	40703	FFLD_T1	0	0	0	0	0	0	0.39	0.43	0	0	0	0	0	0
4/30/2024 10:00	53903	HALI_T2	1	3	2	0.2	0.73	0.53	0	0	0	0	0	0	0	0
4/30/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
4/30/2024 10:00	46004	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/30/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.56	0.55	1	1	0	600	600	0
4/30/2024 10:00	58803	COCO_T1	1	2	1	1.3	1	-0.3	0	0	0	0	0	0	0	0
4/30/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	0.74	0.79	0	0	0	0	0	0
4/30/2024 10:00	63401	HONY_T1	0	0	0	0	0	0	1.09	1.03	0	0	0	0	0	0
4/30/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.09	-0.06	0	0	0	0	0	0
4/30/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.68	-0.73	0	0	0	0	0	0
4/30/2024 10:00	53501	EVIL_T2	2	2	0	0.4	0.15	-0.25	-0.35	-0.48	2	2	0	1500	1500	0
4/30/2024 10:00	61302	EARL_T1	0	0	0	0	0	0	2.54	2.72	4	4	0	3600	3600	0
4/30/2024 10:00	54502	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
4/30/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.89	-0.88	3	3	0	2400	2400	0
4/30/2024 10:00	41902	REED_T1	0	0	0	0	0	0	1.29	1.26	0	0	0	0	0	0
4/30/2024 10:00	29401	BELT_T1	0	12	12	0	0.11	0.11	0	0	3	3	0	2700	2700	0
4/30/2024 10:00	67605	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/30/2024 10:00	46002	BERW_T2	0	1	1	0	0.3	0.3	-0.89	-0.9	1	1	0	900	900	0
4/30/2024 10:00	29402	BELT_T1	1	1	0	8.2	8.4	0.2	0	0	0	0	0	0	0	0
4/30/2024 10:00	45502	DERR_T2	0	6	6	0	0.5	0.5	0	0	0	0	0	0	0	0
4/30/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.7	0.66	0	0	0	0	0	0
4/30/2024 10:00	66302	MCGO_T2	1	2	1	0.5	0.45	-0.05	-0.82	-1.02	1	1	0	600	600	0
4/30/2024 10:00	17102	WTRE_T2	0	1	1	0	0	0	0.53	0.66	1	1	0	1200	1200	0
4/30/2024 10:00	56601	HAMP_T1	0	0	0	0	0	0	-1.43	-1.33	0	0	0	0	0	0
4/30/2024 10:00	64201	KINZ_T1	0	0	0	0	0	0	-0.09	-0.27	4	4	0	2100	2100	0
4/30/2024 10:00	63804	HEMP_T1	1	1	0	7.1	6.6	-0.5	0	0	0	0	0	0	0	0
4/30/2024 10:00	58102	NEKI_T1	2	3	1	0.7	0.47	-0.23	-0.5	-0.5	1	1	0	1200	1200	0
4/30/2024 10:00	45501	DERR_T2	2	2	0	0.7	1	0.3	1	1	2	2	0	1800	1800	0
4/30/2024 10:00	45602	WOOL_T1	2	1	-1	0.35	0.2	-0.15	1.12	1.11	0	0	0	0	0	0
4/30/2024 10:00	66502	SMAN_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/30/2024 10:00	21901	HUMB_T1	0	1	1	0	0.5	0.5	-2.23	-2.23	0	0	0	0	0	0
4/30/2024 10:00	51004	NHAR_T1	13	12	-1	0.67	0.75	0.08	0	0	0	0	0	0	0	0
4/30/2024 10:00	53902	HALI_T2	3	2	-1	1.9	2.8	0.9	0	0	0	0	0	0	0	0
4/30/2024 10:00	54001	SDLE_T1	1	2	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
4/30/2024 10:00	16102	BING_T2	0	0	0	0	0	0	0.15	0.24	0	0	0	0	0	0
4/30/2024 10:00	54504	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/30/2024 10:00	58101	NEKI_T1	2	2	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
4/30/2024 10:00	56801	BENV_T1	16	13	-3	0.51	0.47	-0.04	0	0	0	0	0	0	0	0
4/30/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-0.17	-0.03	1	1	0	1200	1200	0
4/30/2024 10:00	58004	WCAR_T1	3	1	-2	0.37	0.1	-0.27	0	0	0	0	0	0	0	0
4/30/2024 10:00	64904	MILL_T1	0	0	0	0	0	0	-0.21	-0.14	0	0	0	0	0	0
4/30/2024 10:02	64904	MILL_T1	0	0	0	0	0	0	-0.21	-0.14	0	0	0	0	0	0
4/30/2024 10:06	51401	LYKE_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
4/30/2024 10:06	39601	LNFD_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/30/2024 10:06	48302	ORWI_T2	2	2	0	0.65	0.65	0	0.06	0.06	0	0	0	0	0	0
4/30/2024 10:06	47104	MARL_T1	0	0	0	0	0	0	0.49	0.55	0	0	0	0	0	0
4/30/2024 10:06	42302	MOWR_T2	0	0	0	0	0	0	-0.06	-0.02	0	0	0	0	0	0
4/30/2024 10:06	45902	AUBU_T1	0	1	1	0	0.7	0.7	-0.51	-0.51	1	1	0	600	600	0
4/30/2024 10:06	64305	LINC_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
4/30/2024 10:07	56501	ROCK_T2	2	2	0	0.8	0.65	-0.15	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 10:07	54602	SUMM_T2	1	5	4	0.2	0	-0.2	-2.22	-2.2	1	1	0	600	600	0
4/30/2024 10:07	50506	MECH_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
4/30/2024 10:07	25603	ARRO_T1	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
4/30/2024 10:07	12803	MICK_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/30/2024 10:07	47401	PENS_T1	3	4	1	1.03	0.9	-0.13	2.57	2.67	0	0	0	0	0	0
4/30/2024 10:07	56504	ROCK_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
4/30/2024 10:07	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/30/2024 10:07	16605	PONO_T1	0	0	0	0	0	0	-0.49	-0.52	1	1	0	1200	1200	0
4/30/2024 10:07	63306	GREE_T1	0	0	0	0	0	0	-1.9	-1.93	1	1	0	900	900	0
4/30/2024 10:07	67502	WEWI_T2	1	2	1	0.4	1.05	0.65	0	0	0	0	0	0	0	0
4/30/2024 10:07	12807	MICK_T1	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
4/30/2024 10:07	50502	MECH_T1	1	1	0	2	1.6	-0.4	0	0	0	0	0	0	0	0
4/30/2024 10:07	60801	BUCK_T1	0	0	0	0	0	0	0.23	0.16	0	0	0	0	0	0
4/30/2024 10:07	22405	MORG_T2	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
4/30/2024 10:07	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 10:07	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 10:07	40101	HUNT_T2	0	0	0	0	0	0	0.2	-0.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/30/2024 10:07	12502	MITR_T2	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
4/30/2024 10:07	64302	LINC_T2	0	0	0	0	0	0	1.22	1.23	0	0	0	0	0	0
4/30/2024 10:07	67002	STHI_T2	0	0	0	0	0	0	0.91	0.92	0	0	0	0	0	0
4/30/2024 10:07	50505	MECH_T1	0	0	0	0	0	0	-0.73	-0.68	0	0	0	0	0	0
4/30/2024 10:07	50501	MECH_T1	4	4	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
4/30/2024 10:07	59201	THOM_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
4/30/2024 10:07	17001	RIRO_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
4/30/2024 10:07	58402	MORO_T1	0	0	0	0	0	0	-0.89	-0.88	3	3	0	2400	2400	0
4/30/2024 10:07	10801	CHHI_T1	0	0	0	0	0	0	-0.8	-0.78	1	1	0	900	900	0
4/30/2024 10:07	67503	WEWI_T2	0	0	0	0	0	0	0.7	0.66	0	0	0	0	0	0
4/30/2024 10:07	60803	BUCK_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 10:07	47403	PENS_T1	1	1	0	2.2	1.7	-0.5	0	0	0	0	0	0	0	0
4/30/2024 10:07	50503	MECH_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/30/2024 10:07	12505	MITR_T2	0	0	0	0	0	0	1.22	1.3	0	0	0	0	0	0
4/30/2024 10:07	40502	CRES_T2	0	14	14	0	0.39	0.39	0.69	0.16	0	0	0	0	0	0
4/30/2024 10:07	50701	SMEC_T1	2	3	1	0.2	0.5	0.3	-0.45	-0.4	0	0	0	0	0	0
4/30/2024 10:07	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 10:07	63302	GREE_T1	0	0	0	0	0	0	0.84	0.82	0	0	0	0	0	0
4/30/2024 10:07	12604	MACA_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
4/30/2024 10:07	40201	BEGA_T2	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
4/30/2024 10:07	46203	DANV_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
4/30/2024 10:07	53802	MBRG_T2	0	0	0	0	0	0	0.97	0.96	0	0	0	0	0	0
4/30/2024 10:07	52004	LING_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
4/30/2024 10:08	43103	SMIL_T2	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/30/2024 10:08	52001	LING_T1	0	0	0	0	0	0	0.3	0.36	0	0	0	0	0	0
4/30/2024 10:08	40101	HUNT_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
4/30/2024 10:08	27502	WEIS_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
4/30/2024 10:08	43104	SMIL_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	300	300	0
4/30/2024 10:08	47403	PENS_T1	1	1	0	2.2	1.7	-0.5	0	0	0	0	0	0	0	0
4/30/2024 10:08	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 10:08	60803	BUCK_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 10:08	64801	MONE_T2	2	1	-1	0.3	0.4	0.1	0.37	0.36	0	0	0	0	0	0
4/30/2024 10:08	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/30/2024 10:08	45902	AUBU_T1	0	1	1	0	0.7	0.7	-1.03	-0.96	2	2	0	1200	1200	0
4/30/2024 10:08	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 10:08	47401	PENS_T1	3	4	1	1.03	0.9	-0.13	2.57	2.67	0	0	0	0	0	0
4/30/2024 10:08	43101	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/30/2024 10:08	66502	SMAN_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
4/30/2024 10:08	67402	WAKE_T2	0	0	0	0	0	0	0.55	0.63	1	1	0	600	600	0
4/30/2024 10:08	40902	JESH_T1	0	0	0	0	0	0	0.42	0.59	2	2	0	1200	1200	0
4/30/2024 10:08	53601	DALM_T2	1	1	0	0.6	0.4	-0.2	0.09	0.05	0	0	0	0	0	0
4/30/2024 10:08	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/30/2024 10:08	46001	BERW_T1	0	0	0	0	0	0	1.19	1.17	0	0	0	0	0	0
4/30/2024 10:08	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 10:08	53501	EVIL_T2	2	2	0	0.4	0.15	-0.25	-0.97	-0.69	4	4	0	3000	3000	0
4/30/2024 10:08	16402	MOPO_T1	0	0	0	0	0	0	0.08	0.2	0	0	0	0	0	0
4/30/2024 10:08	66505	SMAN_T2	0	0	0	0	0	0	0.4	0.44	2	3	1	1100	1700	600
4/30/2024 10:08	41902	REED_T1	0	0	0	0	0	0	1.26	1.24	0	0	0	0	0	0
4/30/2024 10:08	60801	BUCK_T1	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
4/30/2024 10:09	45702	LIND_T2	1	2	1	0.2	0.3	0.1	-0.38	-0.34	0	0	0	0	0	0
4/30/2024 10:09	57403	SPAN_T1	3	1	-2	0.27	0.8	0.53	0	0	0	0	0	0	0	0
4/30/2024 10:09	46004	BERW_T2	1	0	-1	0.1	0	-0.1	0.28	0.32	0	0	0	0	0	0
4/30/2024 10:09	46002	BERW_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/30/2024 10:09	57401	SPAN_T1	1	4	3	2.6	0.45	-2.15	-2.77	-2.9	2	2	0	1200	1200	0
4/30/2024 10:09	15404	WALL_T1	0	0	0	0	0	0	-0.32	-0.26	0	0	0	0	0	0
4/30/2024 10:09	15103	UPHA_T2	0	0	0	0	0	0	0.48	-0.8	0	0	0	0	0	0
4/30/2024 10:10	45502	DERR_T2	0	6	6	0	0.5	0.5	0	0	0	0	0	0	0	0
4/30/2024 10:10	45501	DERR_T2	2	2	0	0.7	1	0.3	1	1.06	2	2	0	1800	1800	0
4/30/2024 10:10	62102	ELAN_T1	0	0	0	0	0	0	0.8	0.86	0	0	0	0	0	0
4/30/2024 10:10	44301	BEAV_T2	1	3	2	1.2	1.35	0.15	0.52	0.62	2	2	0	1500	1500	0
4/30/2024 10:11	63803	HEMP_T1	1	3	2	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
4/30/2024 10:11	63804	HEMP_T1	1	1	0	7.1	6.6	-0.5	0	0	0	0	0	0	0	0
4/30/2024 10:11	63801	HEMP_T1	4	6	2	0.18	0.17	-0.01	0.46	1.05	0	0	0	0	0	0
4/30/2024 10:13	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.18	-0.22	0	0	0	0	0	0
4/30/2024 10:13	46203	DANV_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
4/30/2024 10:14	45701	LIND_T2	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
4/30/2024 10:14	45702	LIND_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
4/30/2024 10:17	65503	MOJO_T2	0	0	0	0	0	0	-0.52	-0.48	1	1	0	900	900	0
4/30/2024 10:18	64702	LITI_T2	0	0	0	0	0	0	-0.44	-0.39	0	0	0	0	0	0
4/30/2024 10:18	45702	LIND_T2	2	2	0	0.3	0.65	0.35	-0.76	-0.67	0	0	0	0	0	0
4/30/2024 10:18	65503	MOJO_T2	0	0	0	0	0	0	-0.52	-0.48	1	1	0	900	900	0
4/30/2024 10:19	41902	REED_T1	0	0	0	0	0	0	1.26	1.24	0	0	0	0	0	0
4/30/2024 10:19	45702	LIND_T2	2	2	0	0.3	0.65	0.35	-0.38	-0.34	0	0	0	0	0	0
4/30/2024 10:21	54201	PENN_T1	9	8	-1	0.72	0.7	-0.02	0	0	0	0	0	0	0	0
4/30/2024 10:21	54203	PENN_T1	18	18	0	0.4	0.38	-0.02	0.46	0.53	0	0	0	0	0	0
4/30/2024 10:21	64101	REFR_T1	0	0	0	0	0	0	-0.73	-0.76	0	0	0	0	0	0
4/30/2024 10:22	60605	NCOL_T2	0	9	9	0	0.25	0.25	0	0	0	0	0	0	0	0
4/30/2024 10:22	13901	SEID_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
4/30/2024 10:22	64101	REFR_T1	0	0	0	0	0	0	-0.73	-0.76	0	0	0	0	0	0
4/30/2024 10:22	64702	LITI_T2	0	0	0	0	0	0	-0.44	-0.39	0	0	0	0	0	0
4/30/2024 10:22	59101	WALK_T2	0	0	0	0	0	0	1.4	1.22	0	1	1	0	600	600
4/30/2024 10:23	60605	NCOL_T2	0	9	9	0	0.25	0.25	0	0	0	0	0	0	0	0
4/30/2024 10:23	59101	WALK_T2	0	0	0	0	0	0	1.22	1.34	0	1	1	0	600	600
4/30/2024 10:23	15001	BLMO_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/30/2024 10:23	64101	REFR_T1	0	0	0	0	0	0	-1.53	-1.47	0	0	0	0	0	0
4/30/2024 10:24	13905	SEID_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/30/2024 10:24	60605	NCOL_T2	0	9	9	0	0.25	0.25	0	0	0	0	0	0	0	0
4/30/2024 10:24	64101	REFR_T1	0	0	0	0	0	0	-1.53	-1.47	0	0	0	0	0	0
4/30/2024 10:25	60605	NCOL_T2	0	9	9	0	0.25	0.25	0	0	0	0	0	0	0	0
4/30/2024 10:25	67703	WERN_T2	0	0	0	0	0	0	-0.65	-0.6	1	1	0	900	900	0
4/30/2024 10:26	53602	DALM_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	600	600	0
4/30/2024 10:26	46002	BERW_T2	0	1	1	0	0.3	0.3	-0.95	-1.05	1	1	0	900	900	0
4/30/2024 10:26	53601	DALM_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
4/30/2024 10:28	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
4/30/2024 10:29	25501	MADI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/30/2024 10:29	45502	DERR_T2	1	6	5	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
4/30/2024 10:29	25503	MADI_T1	0	1	1	0	0.4	0.4	-1	-1.03	0	0	0	0	0	0
4/30/2024 10:29	45501	DERR_T2	1	2	1	1.2	1	-0.2	1.06	1.15	2	2	0	1800	1800	0
4/30/2024 10:29	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
4/30/2024 10:30	14203	EALL_T1	0	0	0	0	0	0	-0.05	0	1	1	0	1200	1200	0
4/30/2024 10:33	64902	MILL_T2	0	0	0	0	0	0	-0.35	-0.35	1	1	0	900	900	0
4/30/2024 10:34	55001	NEWP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/30/2024 10:34	55002	NEWP_T1	2	1	-1	1.5	2.4	0.9	-0.36	-0.32	0	0	0	0	0	0
4/30/2024 10:34	65001	NEFF_T2	0	0	0	0	0	0	-0.09	0.07	1	1	0	1200	1200	0
4/30/2024 10:34	65002	NEFF_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
4/30/2024 10:35	60605	NCOL_T2	4	15	11	0.25	0.47	0.22	0	0	0	0	0	0	0	0
4/30/2024 10:37	55002	NEWP_T1	2	1	-1	1.5	2.4	0.9	-0.18	-0.16	0	0	0	0	0	0
4/30/2024 10:37	55001	NEWP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
4/30/2024 10:38	57403	SPAN_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/30/2024 10:38	64101	REFR_T1	0	0	0	0	0	0	-0.73	-0.83	0	0	0	0	0	0
4/30/2024 10:38	57401	SPAN_T1	4	3	-1	0.45	0.9	0.45	-1.08	-1.22	1	1	0	600	600	0
4/30/2024 10:38	44301	BEAV_T2	1	2	1	0.4	1.05	0.65	0.62	0.44	2	2	0	1500	1500	0
4/30/2024 10:38	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 10:39	56803	BENV_T1	3	2	-1	0.63	1.25	0.62	0	0	0	0	0	0	0	0
4/30/2024 10:39	56801	BENV_T1	11	9	-2	0.53	0.42	-0.11	-0.04	-0.09	0	0	0	0	0	0
4/30/2024 10:39	57403	SPAN_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
4/30/2024 10:39	57401	SPAN_T1	4	3	-1	0.45	0.9	0.45	-1.08	-1.22	1	1	0	600	600	0
4/30/2024 10:39	56802	BENV_T2	4	4	0	0.45	0.3	-0.15	-1.05	-0.98	0	0	0	0	0	0
4/30/2024 10:40	56802	BENV_T2	4	4	0	0.45	0.3	-0.15	0.53	0.49	0	0	0	0	0	0
4/30/2024 10:40	45502	DERR_T2	6	5	-1	0.77	0.1	-0.67	0.3	0.3	1	1	0	300	300	0
4/30/2024 10:40	45501	DERR_T2	2	2	0	1.05	0.95	-0.1	0	0	0	0	0	0	0	0
4/30/2024 10:41	52202	DEVO_T2	0	0	0	0	0	0	-1.14	-1.07	0	0	0	0	0	0
4/30/2024 10:43	64101	REFR_T1	0	0	0	0	0	0	-0.73	-0.83	0	0	0	0	0	0
4/30/2024 10:44	67605	WARW_T1	1	2	1	0.2	0.35	0.15	-0.93	-0.93	0	0	0	0	0	0
4/30/2024 10:44	53902	HALI_T2	2	5	3	2.55	1.52	-1.03	-0.7	-0.62	0	0	0	0	0	0
4/30/2024 10:44	53903	HALI_T2	1	3	2	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
4/30/2024 10:44	53901	HALI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/30/2024 10:49	40602	PIGR_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
4/30/2024 10:49	54201	PENN_T1	8	9	1	0.65	0.81	0.16	0	0	0	0	0	0	0	0
4/30/2024 10:49	40601	PIGR_T1	8	11	3	0.31	0.31	0	0.29	0.37	0	0	0	0	0	0
4/30/2024 10:49	54203	PENN_T1	17	19	2	0.33	0.56	0.23	0.49	0.54	0	0	0	0	0	0
4/30/2024 10:50	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/30/2024 10:50	43202	MVIL_T2	64	71	7	0.48	0.5	0.02	-0.55	-0.53	0	0	0	0	0	0
4/30/2024 10:55	20401	ASHF_T2	1	0	-1	0.2	0	-0.2	-0.21	-0.16	0	0	0	0	0	0
4/30/2024 10:55	20403	ASHF_T2	3	6	3	0.23	0.32	0.09	0	0	0	0	0	0	0	0
4/30/2024 10:55	45902	AUBU_T1	1	1	0	0.4	0.4	0	-0.36	-0.49	1	1	0	600	600	0
4/30/2024 10:59	28403	HART_T2	0	0	0	0	0	0	-0.88	-0.86	1	1	0	900	900	0
4/30/2024 11:00	45902	AUBU_T1	1	1	0	0.4	0.4	0	-0.36	-0.49	1	1	0	600	600	0
4/30/2024 11:00	53902	HALI_T2	5	4	-1	1.44	1.6	0.16	0	0	0	0	0	0	0	0
4/30/2024 11:00	59301	MCAL_T1	4	4	0	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
4/30/2024 11:00	53903	HALI_T2	3	3	0	0.33	0.73	0.4	-0.05	-0.06	0	0	0	0	0	0
4/30/2024 11:00	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
4/30/2024 11:00	59302	MCAL_T1	0	0	0	0	0	0	0.34	0.43	1	1	0	600	600	0
4/30/2024 11:01	45902	AUBU_T1	1	1	0	0.4	0.4	0	-0.36	-0.49	1	1	0	600	600	0
4/30/2024 11:06	44601	SALE_T2	2	0	-2	0.4	0	-0.4	0.9	0.32	1	1	0	600	600	0
4/30/2024 11:07	44601	SALE_T2	2	0	-2	0.4	0	-0.4	0.9	0.32	1	1	0	600	600	0
4/30/2024 11:07	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.85	-0.84	0	0	0	0	0	0
4/30/2024 11:10	20403	ASHF_T2	5	5	0	0.34	0.17	-0.17	1.39	1.52	0	0	0	0	0	0
4/30/2024 11:10	45902	AUBU_T1	1	1	0	0.4	0.4	0	-0.49	-0.48	1	1	0	600	600	0
4/30/2024 11:10	57401	SPAN_T1	3	4	1	1.93	0.83	-1.1	-1.4	-1.27	1	1	0	600	600	0
4/30/2024 11:10	57403	SPAN_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/30/2024 11:11	45902	AUBU_T1	1	1	0	0.4	0.4	0	-0.49	-0.48	1	1	0	600	600	0
4/30/2024 11:15	57304	MOAL_T2	2	0	-2	0.25	0	-0.25	-0.38	-0.34	0	0	0	0	0	0
4/30/2024 11:15	57303	MOAL_T2	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
4/30/2024 11:16	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.49	-0.48	1	1	0	600	600	0
4/30/2024 11:17	64201	KINZ_T1	0	0	0	0	0	0	0.03	0.07	4	4	0	2100	2100	0
4/30/2024 11:17	64204	KINZ_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/30/2024 11:18	56801	BENV_T1	6	9	3	1	0.77	-0.23	0	0	0	0	0	0	0	0
4/30/2024 11:18	53901	HALI_T2	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
4/30/2024 11:18	67605	WARW_T1	1	1	0	0.6	0.8	0.2	-0.48	-0.44	0	0	0	0	0	0
4/30/2024 11:18	67605	WARW_T1	1	1	0	0.6	0.8	0.2	-0.48	-0.44	0	0	0	0	0	0
4/30/2024 11:18	67605	WARW_T1	1	1	0	0.6	0.8	0.2	-0.48	-0.44	0	0	0	0	0	0
4/30/2024 11:18	67605	WARW_T1	1	1	0	0.6	0.8	0.2	-0.48	-0.44	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/30/2024 11:18	67603	WARW_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/30/2024 11:18	53902	HALI_T2	3	5	2	1.93	1.55	-0.38	0	0	0	0	0	0	0	0
4/30/2024 11:18	56803	BENV_T1	1	3	2	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/30/2024 11:18	53903	HALI_T2	3	3	0	0.73	0.57	-0.16	0	0	0	0	0	0	0	0
4/30/2024 11:19	56802	BENV_T2	5	4	-1	0.54	0.6	0.06	-1.13	-1.13	0	0	0	0	0	0
4/30/2024 11:19	64201	KINZ_T1	0	0	0	0	0	0	0.03	0.07	4	4	0	2100	2100	0
4/30/2024 11:19	56801	BENV_T1	6	9	3	1	0.77	-0.23	0	0	0	0	0	0	0	0
4/30/2024 11:19	40601	PIGR_T1	11	9	-2	0.29	0.31	0.02	0	0	0	0	0	0	0	0
4/30/2024 11:19	40602	PIGR_T1	1	2	1	0.2	0	-0.2	0.82	0.8	0	0	0	0	0	0
4/30/2024 11:19	56803	BENV_T1	1	3	2	0.6	0.4	-0.2	-0.39	-0.35	1	1	0	600	600	0
4/30/2024 11:19	64204	KINZ_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/30/2024 11:20	41902	REED_T1	1	0	-1	0.4	0	-0.4	0.33	0.39	1	1	0	900	900	0
4/30/2024 11:20	57304	MOAL_T2	2	0	-2	0.25	0	-0.25	-0.38	-0.34	0	0	0	0	0	0
4/30/2024 11:20	57303	MOAL_T2	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
4/30/2024 11:21	44502	HAMI_T2	1	1	0	2.3	2.5	0.2	0	0	0	0	0	0	0	0
4/30/2024 11:21	44505	HAMI_T2	2	10	8	0.6	0.42	-0.18	0.14	0.13	0	0	0	0	0	0
4/30/2024 11:22	60803	BUCK_T1	0	0	0	0	0	0	-1.1	-1.07	1	1	0	600	600	0
4/30/2024 11:22	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.49	-0.48	1	1	0	600	600	0
4/30/2024 11:22	17002	RIRO_T2	144	64	-80	0.19	0.26	0.07	0.71	0.74	0	0	0	0	0	0
4/30/2024 11:23	16402	MOPO_T1	0	0	0	0	0	0	0.42	0.25	0	0	0	0	0	0
4/30/2024 11:23	40602	PIGR_T1	1	2	1	0.2	0	-0.2	1.59	1.6	0	0	0	0	0	0
4/30/2024 11:23	40601	PIGR_T1	11	9	-2	0.29	0.31	0.02	0	0	0	0	0	0	0	0
4/30/2024 11:24	20403	ASHF_T2	3	5	2	0.17	0.58	0.41	1.52	1.49	0	0	0	0	0	0
4/30/2024 11:24	40505	CRES_T1	3	3	0	4.03	4.43	0.4	0.55	0.54	0	0	0	0	0	0
4/30/2024 11:25	44505	HAMI_T2	2	10	8	0.6	0.42	-0.18	0.13	0.16	0	0	0	0	0	0
4/30/2024 11:25	44502	HAMI_T2	1	1	0	2.3	2.5	0.2	0	0	0	0	0	0	0	0
4/30/2024 11:25	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.48	-0.51	1	1	0	600	600	0
4/30/2024 11:26	40505	CRES_T1	3	3	0	4.03	4.43	0.4	1.11	1.09	0	0	0	0	0	0
4/30/2024 11:26	60803	BUCK_T1	0	0	0	0	0	0	-1.07	-1.06	1	1	0	600	600	0
4/30/2024 11:27	40502	CRES_T2	2	0	-2	0.1	0	-0.1	0.2	0.2	0	0	0	0	0	0
4/30/2024 11:27	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 11:27	60803	BUCK_T1	0	0	0	0	0	0	-1.07	-1.06	1	1	0	600	600	0
4/30/2024 11:28	40505	CRES_T1	3	3	0	4.03	4.43	0.4	0.55	0.54	0	0	0	0	0	0
4/30/2024 11:28	10805	OHHI_T2	1	3	2	8	9.1	1.1	-0.47	-0.22	1	1	0	600	600	0
4/30/2024 11:29	40505	CRES_T1	3	3	0	4.03	4.43	0.4	0.55	0.54	0	0	0	0	0	0
4/30/2024 11:32	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/30/2024 11:32	13502	MCMI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/30/2024 11:33	66703	STRA_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
4/30/2024 11:33	66701	STRA_T1	1	2	1	1.5	0.7	-0.8	0	0	0	0	0	0	0	0
4/30/2024 11:34	27503	WEIS_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
4/30/2024 11:34	29401	BELT_T1	1	4	3	0.2	0.13	-0.07	0	0	1	1	0	900	900	0
4/30/2024 11:34	42802	SELI_T1	0	0	0	0	0	0	-0.32	-1.47	1	1	0	900	900	0
4/30/2024 11:34	54601	SUMM_T2	0	0	0	0	0	0	-1.47	-1.4	2	2	0	2100	2100	0
4/30/2024 11:34	29402	BELT_T1	1	3	2	8.3	2.8	-5.5	0	0	0	0	0	0	0	0
4/30/2024 11:34	42801	SELI_T1	0	1	1	0	5	5	0	0	0	0	0	0	0	0
4/30/2024 11:34	27502	WEIS_T2	0	0	0	0	0	0	0.14	0.24	0	0	0	0	0	0
4/30/2024 11:34	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/30/2024 11:34	64904	MILL_T1	0	0	0	0	0	0	-0.1	-0.01	0	0	0	0	0	0
4/30/2024 11:34	13502	MCMI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/30/2024 11:35	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/30/2024 11:35	42801	SELI_T1	0	1	1	0	5	5	0	0	0	0	0	0	0	0
4/30/2024 11:35	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 11:35	42802	SELI_T1	0	0	0	0	0	0	-0.32	-1.47	1	1	0	900	900	0
4/30/2024 11:36	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 11:36	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/30/2024 11:37	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/30/2024 11:37	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 11:38	15001	BLMO_T1	4	6	2	0.45	0.48	0.03	0	0	0	0	0	0	0	0
4/30/2024 11:38	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 11:38	14404	SSLA_T1	1	1	0	5.7	5.9	0.2	0.04	0.03	0	0	0	0	0	0
4/30/2024 11:39	15001	BLMO_T1	4	6	2	0.45	0.48	0.03	0	0	0	0	0	0	0	0
4/30/2024 11:39	59101	WALK_T2	1	0	-1	0.8	0	-0.8	1.93	1.67	1	1	0	600	600	0
4/30/2024 11:40	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/30/2024 11:40	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 11:40	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 11:41	57401	SPAN_T1	2	3	1	1.1	0.35	-0.75	-1.18	-1.31	1	1	0	600	600	0
4/30/2024 11:41	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 11:41	46203	DANV_T2	129	103	-26	0.37	0.39	0.02	-0.81	-0.85	0	0	0	0	0	0
4/30/2024 11:41	57403	SPAN_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
4/30/2024 11:41	44301	BEAV_T2	1	11	10	2.4	0.22	-2.18	0.8	0.63	2	2	0	1500	1500	0
4/30/2024 11:43	67805	WLAN_T1	0	0	0	0	0	0	-0.5	-0.43	0	0	0	0	0	0
4/30/2024 11:43	67803	WLAN_T1	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
4/30/2024 11:43	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 11:43	46203	DANV_T2	129	103	-26	0.37	0.39	0.02	-0.81	-0.85	0	0	0	0	0	0
4/30/2024 11:45	67703	WERN_T2	1	1	0	0.6	0.9	0.3	-0.51	-0.44	1	1	0	900	900	0
4/30/2024 11:45	21901	HUMB_T1	0	0	0	0	0	0	-2.15	-2.15	0	0	0	0	0	0
4/30/2024 11:45	67702	WERN_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/30/2024 11:48	29402	BELT_T1	2	3	1	4.1	2.87	-1.23	0	0	0	0	0	0	0	0
4/30/2024 11:48	13502	MCMI_T1	0	9	9	0	0.17	0.17	0	0	0	0	0	0	0	0
4/30/2024 11:48	29401	BELT_T1	2	30	28	0.15	0.14	-0.01	0	0	1	1	0	900	900	0
4/30/2024 11:48	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/30/2024 11:49	29402	BELT_T1	2	3	1	4.1	2.87	-1.23	0	0	0	0	0	0	0	0
4/30/2024 11:49	29401	BELT_T1	2	30	28	0.15	0.14	-0.01	0	0	1	1	0	900	900	0
4/30/2024 11:50	29401	BELT_T1	2	30	28	0.15	0.14	-0.01	0	0	1	1	0	900	900	0
4/30/2024 11:50	11104	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 11:50	13704	SCHN_T2	1	5	4	0.7	0.28	-0.42	-0.28	-0.25	0	0	0	0	0	0
4/30/2024 11:50	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/30/2024 11:50	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/30/2024 11:50	29402	BELT_T1	2	3	1	4.1	2.87	-1.23	0	0	0	0	0	0	0	0
4/30/2024 11:50	13701	SOHN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
4/30/2024 11:50	13502	MCMI_T1	0	9	9	0	0.17	0.17	0	0	0	0	0	0	0	0
4/30/2024 11:51	29402	BELT_T1	2	3	1	4.1	2.87	-1.23	0	0	0	0	0	0	0	0
4/30/2024 11:51	29401	BELT_T1	2	30	28	0.15	0.14	-0.01	0	0	1	1	0	900	900	0
4/30/2024 11:52	67703	WERN_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/30/2024 11:52	67702	WERN_T2	1	1	0	0.6	0.2	-0.4	0.11	0	0	0	0	0	0	0
4/30/2024 11:52	11104	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 11:52	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/30/2024 11:53	67002	STHI_T2	5	9	4	0.36	0.42	0.06	1.15	1.16	0	0	0	0	0	0
4/30/2024 11:53	67001	STHI_T2	4	7	3	0.3	0.37	0.07	0	0	0	0	0	0	0	0
4/30/2024 11:54	67703	WERN_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
4/30/2024 11:54	67702	WERN_T2	1	1	0	0.6	0.2	-0.4	0	0.09	0	0	0	0	0	0
4/30/2024 11:55	67703	WERN_T2	1	1	0	0.6	0.9	0.3	-0.88	-0.81	2	2	0	1800	1800	0
4/30/2024 11:55	67702	WERN_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/30/2024 11:57	67703	WERN_T2	1	1	0	0.6	0.9	0.3	-0.44	-0.4	1	1	0	900	900	0
4/30/2024 11:57	67702	WERN_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
4/30/2024 11:58	61803	EELI_T2	0	0	0	0	0	0	0.72	0.76	1	1	0	600	600	0
4/30/2024 11:58	61801	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 11:59	16902	MECK_T1	2	3	1	0.15	0.33	0.18	0.06	0.05	0	0	0	0	0	0
4/30/2024 12:01	42802	SELI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/30/2024 12:03	65205	PRIN_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
4/30/2024 12:04	13502	MCMI_T1	1	9	8	0.4	0.14	-0.26	0	0	0	0	0	0	0	0
4/30/2024 12:04	58402	MORO_T1	0	0	0	0	0	0	-1.62	-1.68	6	6	0	4800	4800	0
4/30/2024 12:04	42902	MIDD_T2	2	9	7	0.35	0.49	0.14	0	0	0	0	0	0	0	0
4/30/2024 12:04	42802	SELI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
4/30/2024 12:04	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
4/30/2024 12:04	42903	MIDD_T2	0	2	2	0	0.75	0.75	1	1.21	1	1	0	1200	1200	0
4/30/2024 12:05	57103	SPHI_T2	0	0	0	0	0	0	0.08	0.01	1	1	0	600	600	0
4/30/2024 12:05	57101	SPHI_T2	6	6	0	0.77	0.98	0.21	0	0	0	0	0	0	0	0
4/30/2024 12:05	57106	SPHI_T2	2	2	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
4/30/2024 12:05	57104	SPHI_T2	4	4	0	0.8	1	0.2	0	0	0	0	0	0	0	0
4/30/2024 12:06	67204	TEHI_T2	0	0	0	0	0	0	0.1	0.01	0	0	0	0	0	0
4/30/2024 12:06	13502	MCMI_T1	1	9	8	0.4	0.14	-0.26	0	0	0	0	0	0	0	0
4/30/2024 12:06	13302	ORVI_T2	2	2	0	0.45	0.65	0.2	1.58	1.54	0	0	0	0	0	0
4/30/2024 12:06	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
4/30/2024 12:08	57005	WHHI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/30/2024 12:08	57006	WHHI_T2	0	0	0	0	0	0	0.89	0.87	1	1	0	600	600	0
4/30/2024 12:08	57003	WHHI_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/30/2024 12:09	67703	WERN_T2	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
4/30/2024 12:09	67702	WERN_T2	1	1	0	0.1	0.4	0.3	0.09	0.1	0	0	0	0	0	0
4/30/2024 12:10	45902	AUBU_T1	1	1	0	0.2	0.9	0.7	-0.64	-0.67	1	1	0	600	600	0
4/30/2024 12:11	57005	WHHI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
4/30/2024 12:11	57006	WHHI_T2	0	0	0	0	0	0	0.89	0.87	1	1	0	600	600	0
4/30/2024 12:11	57003	WHHI_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
4/30/2024 12:12	23902	EFMO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 12:12	23901	EFMO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/30/2024 12:12	11202	ELHE_T2	0	0	0	0	0	0	0.06	0.09	1	1	0	1200	1200	0
4/30/2024 12:14	44504	HAMI_T2	0	0	0	0	0	0	-0.81	-0.73	0	0	0	0	0	0
4/30/2024 12:14	44505	HAMI_T2	13	7	-6	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
4/30/2024 12:14	44502	HAMI_T2	1	1	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
4/30/2024 12:14	45902	AUBU_T1	1	1	0	0.2	0.9	0.7	-0.64	-0.67	1	1	0	600	600	0
4/30/2024 12:14	23901	EFMO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/30/2024 12:14	23902	EFMO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 12:15	40601	PIGR_T1	6	7	1	0.32	0.27	-0.05	0	0	0	0	0	0	0	0
4/30/2024 12:15	67204	TEHI_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
4/30/2024 12:15	40602	PIGR_T1	1	1	0	0.2	0.2	0	1.71	1.81	0	0	0	0	0	0
4/30/2024 12:15	67703	WERN_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
4/30/2024 12:15	13902	SEID_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
4/30/2024 12:15	14204	EALL_T2	6	4	-2	0.35	0.48	0.13	-0.59	-0.62	0	0	0	0	0	0
4/30/2024 12:15	28801	LAKE_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
4/30/2024 12:15	28805	LAKE_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
4/30/2024 12:15	45902	AUBU_T1	1	1	0	0.9	0.5	-0.4	-0.64	-0.67	1	1	0	600	600	0
4/30/2024 12:15	13901	SEID_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
4/30/2024 12:15	67702	WERN_T2	1	1	0	0.2	0.4	0.2	0.09	0.1	0	0	0	0	0	0
4/30/2024 12:15	13905	SEID_T1	3	2	-1	0.47	0.2	-0.27	0	0	0	0	0	0	0	0
4/30/2024 12:15	14205	EALL_T2	1	1	0	0.2	0.1	-0.1	0	0.03	0	0	0	0	0	0
4/30/2024 12:15	10801	CHHI_T1	2	0	-2	0.15	0	-0.15	-0.58	-0.56	1	1	0	900	900	0
4/30/2024 12:16	26001	WDAM_T1	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
4/30/2024 12:16	39601	LNFD_T1	1	1	0	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
4/30/2024 12:16	57403	SPAN_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
4/30/2024 12:16	57401	SPAN_T1	3	3	0	3	0.7	-2.3	-1.2	-1.13	1	1	0	600	600	0
4/30/2024 12:16	64902	MILL_T2	0	0	0	0	0	0	-0.27	-0.22	1	1	0	900	900	0
4/30/2024 12:17	46801	HEPB_T2	2	2	0	0.4	0.35	-0.05	0.89	0.91	0	0	0	0	0	0
4/30/2024 12:17	40101	HUNT_T2	0	2	2	0	0	0	-0.05	0.1	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/30/2024 12:17	46803	HEPB_T2	2	1	-1	0.65	1.1	0.45	0	0	0	0	0	0	0	0
4/30/2024 12:18	65802	RTWN_T2	1	1	0	1.2	0.9	-0.3	0.18	0.21	0	0	0	0	0	0
4/30/2024 12:18	65803	RTWN_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
4/30/2024 12:19	58402	MORO_T1	0	0	0	0	0	0	-0.84	-0.87	3	3	0	2400	2400	0
4/30/2024 12:19	45902	AUBU_T1	1	1	0	0.9	0.5	-0.4	-0.64	-0.67	1	1	0	600	600	0
4/30/2024 12:21	67401	WAKE_T2	3	1	-2	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
4/30/2024 12:21	59101	WALK_T2	0	1	1	0	0.2	0.2	1.39	1.32	1	1	0	600	600	0
4/30/2024 12:21	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.26	1	1	0	600	600	0
4/30/2024 12:22	44203	POIN_T2	2	0	-2	1.55	0	-1.55	0	0	0	0	0	0	0	0
4/30/2024 12:22	44202	POIN_T2	0	0	0	0	0	0	-0.53	-0.52	1	1	0	1200	1200	0
4/30/2024 12:24	13901	SEID_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
4/30/2024 12:24	13902	SEID_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
4/30/2024 12:24	13905	SEID_T1	3	2	-1	0.47	0.2	-0.27	0	0	0	0	0	0	0	0
4/30/2024 12:25	45602	WOOL_T1	4	2	-2	0.3	0.4	0.1	0.72	0.81	0	0	0	0	0	0
4/30/2024 12:26	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 12:26	21206	ECAR_T2	1	1	0	7.3	7.2	-0.1	3.23	3.21	0	0	0	0	0	0
4/30/2024 12:26	60101	COCA_T1	0	1	1	0	0.1	0.1	0.65	0.65	0	0	0	0	0	0
4/30/2024 12:27	15601	NSTR_T2	36	15	-21	0.25	0.41	0.16	0	0	0	0	0	0	0	0
4/30/2024 12:27	15603	NSTR_T2	85	12	-73	0.17	0.17	0	-0.64	-0.63	0	0	0	0	0	0
4/30/2024 12:27	15602	NSTR_T2	68	1	-67	0.1	0.1	0	0	0	0	0	0	0	0	0
4/30/2024 12:28	60101	COCA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 12:28	60102	COCA_T1	0	0	0	0	0	0	-0.3	-0.26	2	2	0	1200	1200	0
4/30/2024 12:30	63401	HONY_T1	0	0	0	0	0	0	1	0.96	0	0	0	0	0	0
4/30/2024 12:31	64802	MONE_T2	1	0	-1	0.2	0	-0.2	0.14	0.17	0	0	0	0	0	0
4/30/2024 12:32	46801	HEPB_T2	2	2	0	0.35	0.3	-0.05	0.91	0.95	0	0	0	0	0	0
4/30/2024 12:32	46803	HEPB_T2	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
4/30/2024 12:33	27605	PIRI_T2	0	0	0	0	0	0	0.46	0.24	1	1	0	900	900	0
4/30/2024 12:35	44505	HAMI_T2	3	6	3	0.23	0.48	0.25	0	0	0	0	0	0	0	0
4/30/2024 12:35	44504	HAMI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 12:35	44502	HAMI_T2	1	1	0	2.5	2.4	-0.1	-0.6	-0.53	0	0	0	0	0	0
4/30/2024 12:41	24501	GOUL_T2	1	4	3	0.2	0.38	0.18	0.08	0.01	0	0	0	0	0	0
4/30/2024 12:42	15001	BLMO_T1	4	4	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
4/30/2024 12:43	46203	DANV_T2	150	67	-83	0.4	0.42	0.02	-0.71	-0.78	0	0	0	0	0	0
4/30/2024 12:43	11601	CEAL_T1	3	3	0	0.83	0.3	-0.53	0	0	1	1	0	1200	1200	0
4/30/2024 12:44	23203	HIRU_T2	6	7	1	0.23	0.2	-0.03	0.16	0.16	0	0	0	0	0	0
4/30/2024 12:44	23202	HIRU_T2	7	7	0	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
4/30/2024 12:44	23201	HIRU_T2	6	9	3	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
4/30/2024 12:45	46203	DANV_T2	34	66	32	0.51	0.39	-0.12	-0.71	-0.78	0	0	0	0	0	0
4/30/2024 12:45	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 12:45	25402	LAHA_T2	5	2	-3	0.48	0.7	0.22	-0.1	-0.17	0	0	0	0	0	0
4/30/2024 12:45	25404	LAHA_T2	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
4/30/2024 12:50	16902	MECK_T1	3	6	3	0.23	0.3	0.07	0.09	0.05	0	0	0	0	0	0
4/30/2024 12:50	16901	MECK_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/30/2024 12:50	26001	WDAM_T1	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
4/30/2024 12:51	12502	MITR_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
4/30/2024 12:51	65603	QVIL_T2	0	0	0	0	0	0	-0.47	-0.51	0	0	0	0	0	0
4/30/2024 12:51	65602	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 12:51	46203	DANV_T2	34	66	32	0.51	0.39	-0.12	-0.71	-0.78	0	0	0	0	0	0
4/30/2024 12:51	12505	MITR_T2	0	0	0	0	0	0	1.31	1.47	0	0	0	0	0	0
4/30/2024 12:51	12501	MITR_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
4/30/2024 12:51	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 12:52	56504	ROCK_T2	1	4	3	0.8	0.93	0.13	0	0	0	0	0	0	0	0
4/30/2024 12:52	56501	ROCK_T2	0	6	6	0	0.87	0.87	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 12:53	56501	ROCK_T2	0	6	6	0	0.87	0.87	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 12:53	56504	ROCK_T2	1	4	3	0.8	0.93	0.13	0	0	0	0	0	0	0	0
4/30/2024 12:55	56504	ROCK_T2	1	4	3	0.8	0.93	0.13	0	0	0	0	0	0	0	0
4/30/2024 12:55	16902	MECK_T1	3	6	3	0.23	0.3	0.07	0.05	0.05	0	0	0	0	0	0
4/30/2024 12:55	16901	MECK_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/30/2024 12:55	56501	ROCK_T2	0	6	6	0	0.87	0.87	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 12:56	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 12:56	46203	DANV_T2	34	66	32	0.51	0.39	-0.12	-0.78	-0.74	0	0	0	0	0	0
4/30/2024 13:00	54504	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/30/2024 13:00	56504	ROCK_T2	4	4	0	0.38	0.93	0.55	0	0	0	0	0	0	0	0
4/30/2024 13:00	54505	ENOL_T2	0	0	0	0	0	0	-1	-0.98	1	1	0	600	600	0
4/30/2024 13:00	46206	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/30/2024 13:00	46203	DANV_T2	66	17	-49	0.39	0.57	0.18	-0.78	-0.74	0	0	0	0	0	0
4/30/2024 13:00	56501	ROCK_T2	4	6	2	1	0.87	-0.13	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 13:01	41801	GOCI_T2	12	20	8	0.53	0.65	0.12	0	0	0	0	0	0	0	0
4/30/2024 13:03	63202	MGTN_T2	0	0	0	0	0	0	-0.87	-0.82	1	1	0	900	900	0
4/30/2024 13:04	48302	ORWI_T2	2	2	0	0.75	0.6	-0.15	0.2	0.2	0	0	0	0	0	0
4/30/2024 13:10	55101	WERT_T1	0	0	0	0	0	0	-1.32	-2.23	3	4	1	2400	3300	900
4/30/2024 13:11	56801	BENV_T1	9	10	1	0.43	0.39	-0.04	-0.5	-0.5	1	1	0	600	600	0
4/30/2024 13:11	10801	CHHI_T1	0	3	3	0	0.33	0.33	-0.53	-0.51	1	1	0	900	900	0
4/30/2024 13:11	56802	BENV_T2	6	5	-1	0.75	0.66	-0.09	-1.08	-0.37	0	0	0	0	0	0
4/30/2024 13:11	56803	BENV_T1	2	2	0	1.05	1.6	0.55	0	0	0	0	0	0	0	0
4/30/2024 13:12	41502	FAIR_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
4/30/2024 13:12	11601	CEAL_T1	1	3	2	0.7	0.37	-0.33	0	0	1	1	0	1200	1200	0
4/30/2024 13:15	56802	BENV_T2	5	2	-3	0.66	1.15	0.49	-1.08	-0.37	0	0	0	0	0	0
4/30/2024 13:19	67703	WERN_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
4/30/2024 13:19	67702	WERN_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
4/30/2024 13:20	12802	MICK_T1	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
4/30/2024 13:20	12803	MICK_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/30/2024 13:22	42201	SHEN_T2	0	1	1	0	0.2	0.2	0.59	0	0	1	1	0	600	600
4/30/2024 13:28	11507	FREE_T2	0	0	0	0	0	0	1.11	1.14	0	0	0	0	0	0
4/30/2024 13:29	61506	EPET_T2	0	0	0	0	0	0	-1.32	-1.27	2	2	0	1800	1800	0
4/30/2024 13:29	61501	EPET_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
4/30/2024 13:41	44301	BEAV_T2	5	3	-2	0.7	1	0.3	0.49	0.53	2	2	0	1500	1500	0
4/30/2024 13:43	10805	CHHI_T2	1	1	0	8.4	8.1	-0.3	-1.52	-1.45	2	2	0	1200	1200	0
4/30/2024 13:43	46206	DANV_T2	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
4/30/2024 13:43	46203	DANV_T2	17	44	27	0.51	0.49	-0.02	-0.74	-0.75	0	0	0	0	0	0
4/30/2024 13:45	46501	LOHA_T1	0	0	0	0	0	0	0.01	0.02	1	1	0	1200	1200	0
4/30/2024 13:45	46504	LOHA_T1	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
4/30/2024 13:46	25501	MADI_T1	2	2	0	0.2	0.65	0.45	0	0	0	0	0	0	0	0
4/30/2024 13:46	25503	MADI_T1	151	157	6	0.35	0.41	0.06	-0.94	-0.9	0	0	0	0	0	0
4/30/2024 13:46	46504	LOHA_T1	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
4/30/2024 13:46	46505	LOHA_T1	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
4/30/2024 13:46	25502	MADI_T1	2	2	0	0.5	1.05	0.55	0	0	0	0	0	0	0	0
4/30/2024 13:48	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.77	1	1	0	900	900	0
4/30/2024 13:49	46203	DANV_T2	44	17	-27	0.49	0.31	-0.18	-0.74	-0.75	0	0	0	0	0	0
4/30/2024 13:49	46206	DANV_T2	2	1	-1	0.55	0	-0.55	0	0	0	0	0	0	0	0
4/30/2024 13:49	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 13:51	49803	UNIV_T1	0	0	0	0	0	0	-0.45	-0.48	0	0	0	0	0	0
4/30/2024 13:53	56501	ROCK_T2	6	4	-2	0.83	0.93	0.1	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 13:53	56504	ROCK_T2	3	1	-2	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
4/30/2024 13:54	44301	BEAV_T2	2	2	0	1.35	0.3	-1.05	0.53	0.51	2	2	0	1500	1500	0
4/30/2024 13:55	10801	CHHI_T1	6	8	2	0.7	0.6	-0.1	-0.69	-0.73	1	1	0	900	900	0
4/30/2024 13:56	60101	COCA_T1	0	0	0	0	0	0	0.7	0.72	0	0	0	0	0	0
4/30/2024 13:56	53502	EVIL_T2	0	0	0	0	0	0	0.29	0.34	2	2	0	1200	1200	0
4/30/2024 13:56	53501	EVIL_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
4/30/2024 13:56	44301	BEAV_T2	2	2	0	1.35	0.3	-1.05	0.53	0.51	2	2	0	1500	1500	0
4/30/2024 13:57	46004	BERW_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
4/30/2024 13:59	46203	DANV_T2	44	17	-27	0.49	0.31	-0.18	-0.75	-0.75	0	0	0	0	0	0
4/30/2024 13:59	46206	DANV_T2	2	1	-1	0.55	0	-0.55	0	0	0	0	0	0	0	0
4/30/2024 13:59	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 14:01	12701	MACU_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
4/30/2024 14:04	12701	MACU_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
4/30/2024 14:08	13606	RICH_T2	1	1	0	7.5	7.3	-0.2	1.63	1.61	0	0	0	0	0	0
4/30/2024 14:10	60902	DONG_T2	2	2	0	0.35	0	-0.35	1.17	1.16	0	0	0	0	0	0
4/30/2024 14:10	60904	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/30/2024 14:10	60901	DONG_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
4/30/2024 14:11	57401	SPAN_T1	0	0	0	0	0	0	-0.77	-0.82	1	1	0	600	600	0
4/30/2024 14:14	45901	AUBU_T1	0	0	0	0	0	0	2.27	2.26	0	0	0	0	0	0
4/30/2024 14:14	45902	AUBU_T1	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
4/30/2024 14:20	51004	NHAR_T1	1	1	0	6.3	6.3	0	-0.03	-0.05	0	0	0	0	0	0
4/30/2024 14:23	14403	SSLA_T1	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
4/30/2024 14:23	43102	SMIL_T2	0	0	0	0	0	0	-0.51	-0.54	1	1	0	600	600	0
4/30/2024 14:23	14404	SSLA_T1	6	5	-1	1.37	1.66	0.29	0.09	0.09	0	0	0	0	0	0
4/30/2024 14:23	43108	SMIL_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
4/30/2024 14:23	14401	SSLA_T1	2	4	2	0.75	0.73	-0.02	0	0	0	0	0	0	0	0
4/30/2024 14:23	14402	SSLA_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
4/30/2024 14:25	45902	AUBU_T1	1	1	0	0.5	0.2	-0.3	-0.65	-0.59	1	1	0	600	600	0
4/30/2024 14:27	61702	ELIZ_T2	1	0	-1	0.3	0	-0.3	-1.44	-1.49	2	2	0	1500	1500	0
4/30/2024 14:30	45902	AUBU_T1	1	1	0	0.2	0.8	0.6	-0.65	-0.59	1	1	0	600	600	0
4/30/2024 14:30	52001	LING_T1	0	0	0	0	0	0	0.64	0.68	0	0	0	0	0	0
4/30/2024 14:30	52003	LING_T1	2	1	-1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
4/30/2024 14:33	43202	MVIL_T2	1	2	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
4/30/2024 14:33	65501	MOJO_T1	0	0	0	0	0	0	-1.62	-1.57	2	2	0	1800	1800	0
4/30/2024 14:33	43201	MVIL_T2	0	0	0	0	0	0	-0.18	-0.24	0	0	0	0	0	0
4/30/2024 14:35	12701	MACU_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
4/30/2024 14:39	56504	ROCK_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
4/30/2024 14:39	56501	ROCK_T2	3	3	0	0.83	0.8	-0.03	0	0	0	0	0	0	0	0
4/30/2024 14:40	10805	CHHI_T2	1	1	0	8.5	8.4	-0.1	-1.26	-1.3	2	2	0	1200	1200	0
4/30/2024 14:41	56802	BENV_T2	12	10	-2	0.44	0.43	-0.01	-0.96	-0.95	0	0	0	0	0	0
4/30/2024 14:43	56802	BENV_T2	12	10	-2	0.44	0.43	-0.01	-0.96	-0.95	0	0	0	0	0	0
4/30/2024 14:44	56802	BENV_T2	12	10	-2	0.44	0.43	-0.01	-1.93	-1.91	0	0	0	0	0	0
4/30/2024 14:45	12701	MACU_T1	0	0	0	0	0	0	0.11	-1.05	0	1	1	0	1200	1200
4/30/2024 14:45	56802	BENV_T2	7	7	0	0.39	0.53	0.14	-0.96	-0.95	0	0	0	0	0	0
4/30/2024 14:46	45802	HEGI_T2	7	5	-2	0.33	0.14	-0.19	0.64	0.47	2	2	0	1200	1200	0
4/30/2024 14:47	56802	BENV_T2	7	7	0	0.39	0.53	0.14	-0.96	-0.95	0	0	0	0	0	0
4/30/2024 14:48	43202	MVIL_T2	1	17	16	0.2	0.18	-0.02	-0.48	-0.41	0	0	0	0	0	0
4/30/2024 14:49	14401	SSLA_T1	3	5	2	0.8	0.7	-0.1	-0.33	-0.34	0	0	0	0	0	0
4/30/2024 14:49	14402	SSLA_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/30/2024 14:49	14404	SSLA_T1	5	6	1	1.5	1.42	-0.08	0	0	0	0	0	0	0	0
4/30/2024 14:49	14403	SSLA_T1	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/30/2024 14:51	13606	RICH_T2	1	1	0	7.8	7.8	0	1.75	1.69	0	0	0	0	0	0
4/30/2024 14:55	14404	SSLA_T1	5	6	1	1.5	1.42	-0.08	0	0	0	0	0	0	0	0
4/30/2024 14:55	14402	SSLA_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
4/30/2024 14:55	14401	SSLA_T1	3	5	2	0.8	0.7	-0.1	-0.34	-0.36	0	0	0	0	0	0
4/30/2024 14:55	14403	SSLA_T1	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
4/30/2024 14:56	46206	DANV_T2	1	1	0	1.6	1.3	-0.3	2.29	2.2	1	1	0	1200	1200	0
4/30/2024 14:56	46203	DANV_T2	9	12	3	0.49	0.4	-0.09	0	0	0	0	0	0	0	0
4/30/2024 14:56	45902	AUBU_T1	0	1	1	0	0.9	0.9	-0.67	-0.7	1	1	0	600	600	0
4/30/2024 14:57	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/30/2024 14:57	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
4/30/2024 14:57	21206	ECAR_T2	1	1	0	7.5	7.8	0.3	1.56	1.54	0	0	0	0	0	0
4/30/2024 14:59	67605	WARW_T1	1	0	-1	0.4	0	-0.4	-0.63	-0.62	0	0	0	0	0	0
4/30/2024 14:59	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
4/30/2024 14:59	46504	LOHA_T1	2	3	1	1.05	1.7	0.65	0	0	0	0	0	0	0	0
4/30/2024 14:59	46506	LOHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/30/2024 14:59	46505	LOHA_T1	0	0	0	0	0	0	0.42	0.34	0	0	0	0	0	0
4/30/2024 15:01	26401	INOR_T1	1	2	1	8	4.45	-3.55	1.01	0.85	0	0	0	0	0	0
4/30/2024 15:01	26402	INOR_T1	0	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0
4/30/2024 15:01	52002	LING_T2	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
4/30/2024 15:02	26401	INOR_T1	1	2	1	8	4.45	-3.55	1.01	0.85	0	0	0	0	0	0
4/30/2024 15:02	52002	LING_T2	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
4/30/2024 15:02	45902	AUBU_T1	1	1	0	0.8	0.9	0.1	-0.67	-0.7	1	1	0	600	600	0
4/30/2024 15:02	26402	INOR_T1	0	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0
4/30/2024 15:04	67605	WARW_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
4/30/2024 15:04	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/30/2024 15:08	20401	ASHF_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
4/30/2024 15:08	66502	SMAN_T2	0	0	0	0	0	0	0.67	0.72	0	0	0	0	0	0
4/30/2024 15:08	20403	ASHF_T2	7	8	1	0.54	0.24	-0.3	0.72	0.69	0	0	0	0	0	0
4/30/2024 15:12	21206	ECAR_T2	1	1	0	7.6	8.2	0.6	1.54	1.39	0	0	0	0	0	0
4/30/2024 15:12	20403	ASHF_T2	7	8	1	0.54	0.24	-0.3	0	0	0	0	0	0	0	0
4/30/2024 15:12	20401	ASHF_T2	1	1	0	0.4	0	-0.4	0.12	0.14	0	0	0	0	0	0
4/30/2024 15:12	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 15:12	45902	AUBU_T1	1	1	0	0.8	0.9	0.1	-0.7	-0.65	1	1	0	600	600	0
4/30/2024 15:15	45902	AUBU_T1	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
4/30/2024 15:15	67605	WARW_T1	0	0	0	0	0	0	-0.62	-0.58	0	0	0	0	0	0
4/30/2024 15:15	45901	AUBU_T1	0	0	0	0	0	0	2.32	2.05	0	0	0	0	0	0
4/30/2024 15:17	45902	AUBU_T1	1	0	-1	0.9	0.6	-0.3	-0.7	-0.65	1	1	0	600	600	0
4/30/2024 15:23	46206	DANV_T2	1	1	0	1.3	0.7	-0.6	2.2	2.23	1	1	0	1200	1200	0
4/30/2024 15:23	63803	HEMP_T1	1	1	0	0.9	0.7	-0.2	0.54	0.49	0	0	0	0	0	0
4/30/2024 15:23	63801	HEMP_T1	3	5	2	0.3	0.3	0	0	0	0	0	0	0	0	0
4/30/2024 15:23	46203	DANV_T2	3	3	0	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/30/2024 15:23	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
4/30/2024 15:26	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
4/30/2024 15:28	45902	AUBU_T1	1	1	0	0.9	0.6	-0.3	-0.65	-0.65	1	1	0	600	600	0
4/30/2024 15:33	45902	AUBU_T1	1	1	0	0.6	0.2	-0.4	-0.65	-0.65	1	1	0	600	600	0
4/30/2024 15:35	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 15:35	66504	SMAN_T2	0	0	0	0	0	0	-1.5	-1.59	2	2	0	2400	2400	0
4/30/2024 15:36	42201	SHEN_T2	0	2	2	0	0.45	0.45	-0.02	-0.03	1	1	0	600	600	0
4/30/2024 15:38	63803	HEMP_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
4/30/2024 15:38	63801	HEMP_T1	5	0	-5	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/30/2024 15:38	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	-1.04	0.2	0	0	0	0	0	0
4/30/2024 15:38	61102	BERK_T5	0	0	0	0	0	0	1.25	1.25	2	2	0	600	600	0
4/30/2024 15:40	57006	WHHI_T2	0	0	0	0	0	0	0.71	0.6	1	1	0	600	600	0
4/30/2024 15:40	61102	BERK_T5	0	0	0	0	0	0	0.63	0.63	1	1	0	300	300	0
4/30/2024 15:41	59003	MIFF_T1	1	1	0	2.1	1.9	-0.2	-0.17	-0.06	0	0	0	0	0	0
4/30/2024 15:41	61102	BERK_T5	0	0	0	0	0	0	0.63	0.63	1	1	0	300	300	0
4/30/2024 15:41	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 15:41	29402	BELT_T1	1	1	0	7.1	6.8	-0.3	0	0	0	0	0	0	0	0
4/30/2024 15:43	10805	CHHI_T2	1	1	0	8.2	7.7	-0.5	-2.43	-1.81	2	2	0	1200	1200	0
4/30/2024 15:46	64402	LAND_T2	0	0	0	0	0	0	-0.05	-0.05	1	1	0	600	600	0
4/30/2024 15:46	46602	LACR_T1	1	0	-1	0.6	0	-0.6	-0.76	-0.72	0	0	0	0	0	0
4/30/2024 15:52	43202	MVIL_T2	1	1	0	0.8	0.5	-0.3	-0.51	-0.5	0	0	0	0	0	0
4/30/2024 15:55	22003	BOHE_T1	3	3	0	1.2	0.87	-0.33	0	0	0	0	0	0	0	0
4/30/2024 16:00	45501	DERR_T2	1	0	-1	0.4	0	-0.4	1.09	0.92	2	2	0	1800	1800	0
4/30/2024 16:01	26703	HEML_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	600	600	0
4/30/2024 16:10	46206	DANV_T2	1	1	0	0.3	0.1	-0.2	1.58	1.65	1	1	0	1200	1200	0
4/30/2024 16:10	10805	CHHI_T2	1	1	0	7.8	8.1	0.3	-0.81	-0.78	1	1	0	600	600	0
4/30/2024 16:10	46203	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 16:13	56802	BENV_T2	71	47	-24	0.28	0.28	0	-3.08	-3.03	0	0	0	0	0	0
4/30/2024 16:14	67605	WARW_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
4/30/2024 16:17	24101	EHAZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/30/2024 16:17	56802	BENV_T2	47	17	-30	0.28	0.28	0	-1.03	-1.01	0	0	0	0	0	0
4/30/2024 16:17	24105	EHAZ_T1	4	4	0	5.65	5.55	-0.1	0	0	0	0	0	0	0	0
4/30/2024 16:17	24102	EHAZ_T1	2	2	0	0.3	0	-0.3	0.53	0.56	0	0	0	0	0	0
4/30/2024 16:19	67605	WARW_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
4/30/2024 16:22	14801	TREI_T2	3	1	-2	0.67	0.8	0.13	0.6	0.57	0	0	0	0	0	0
4/30/2024 16:24	56504	ROCK_T2	3	3	0	0.77	0.23	-0.54	0	0	0	0	0	0	0	0
4/30/2024 16:24	56501	ROCK_T2	3	2	-1	0.93	1.4	0.47	0	0	0	0	0	0	0	0
4/30/2024 16:28	67801	WLAN_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
4/30/2024 16:28	67804	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 16:31	25503	MADI_T1	25	6	-19	0.14	0.18	0.04	-0.88	-0.81	0	0	0	0	0	0
4/30/2024 16:31	25501	MADI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 16:40	61304	EARL_T1	0	0	0	0	0	0	-1.35	-1.36	2	2	0	1800	1800	0
4/30/2024 16:44	67605	WARW_T1	0	0	0	0	0	0	-0.65	-0.62	0	0	0	0	0	0
4/30/2024 16:49	67605	WARW_T1	0	0	0	0	0	0	-0.65	-0.62	0	0	0	0	0	0
4/30/2024 16:53	14802	TREI_T2	0	0	0	0	0	0	0.58	0.53	0	0	0	0	0	0
4/30/2024 16:53	14801	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 16:55	11103	EGYP_T1	0	0	0	0	0	0	0.82	0.88	0	0	0	0	0	0
4/30/2024 16:55	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 16:56	51402	LYKE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 16:56	51401	LYKE_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
4/30/2024 16:58	45501	DERR_T2	0	0	0	0	0	0	0.61	0.42	2	2	0	1800	1800	0
4/30/2024 16:59	67605	WARW_T1	0	0	0	0	0	0	-0.62	-0.7	0	0	0	0	0	0
4/30/2024 16:59	26704	HEML_T2	0	1	1	0	0.1	0.1	-0.78	-0.78	1	1	0	1200	1200	0
4/30/2024 17:00	45501	DERR_T2	0	0	0	0	0	0	1.21	0.83	4	4	0	3600	3600	0
4/30/2024 17:04	67605	WARW_T1	0	0	0	0	0	0	-0.62	-0.7	0	0	0	0	0	0
4/30/2024 17:05	24202	PROV_T4	1	1	0	9.7	8.9	-0.8	-0.55	-0.61	1	1	0	1200	1200	0
4/30/2024 17:06	51402	LYKE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 17:06	51401	LYKE_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
4/30/2024 17:07	13901	SEID_T1	0	0	0	0	0	0	-0.7	-0.77	1	1	0	1200	1200	0
4/30/2024 17:07	46302	ROHR_T1	4	4	0	1.83	1.5	-0.33	0	0	0	0	0	0	0	0
4/30/2024 17:07	24204	PROV_T3	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
4/30/2024 17:07	24205	PROV_T3	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
4/30/2024 17:07	46301	ROHR_T1	2	0	-2	0.1	0	-0.1	0.27	0.25	0	0	0	0	0	0
4/30/2024 17:07	24203	PROV_T3	1	2	1	6.7	3.35	-3.35	-1.1	-1.14	1	1	0	1200	1200	0
4/30/2024 17:08	16301	ALPA_T1	0	0	0	0	0	0	0.29	0.25	0	0	0	0	0	0
4/30/2024 17:09	46302	ROHR_T1	4	4	0	1.83	1.5	-0.33	0	0	0	0	0	0	0	0
4/30/2024 17:09	46301	ROHR_T1	2	0	-2	0.1	0	-0.1	0.25	0.24	0	0	0	0	0	0
4/30/2024 17:10	29402	BELT_T1	1	1	0	7.6	7.3	-0.3	0	0	0	0	0	0	0	0
4/30/2024 17:10	29401	BELT_T1	22	2	-20	0.13	0.1	-0.03	0	0	1	1	0	900	900	0
4/30/2024 17:20	65702	RVIL_T2	0	0	0	0	0	0	-0.66	-0.73	1	1	0	600	600	0
4/30/2024 17:26	45901	AUBU_T1	0	0	0	0	0	0	2.03	1.98	0	0	0	0	0	0
4/30/2024 17:27	45902	AUBU_T1	0	0	0	0	0	0	-0.78	-0.82	1	1	0	600	600	0
4/30/2024 17:28	45902	AUBU_T1	0	0	0	0	0	0	-0.78	-0.82	1	1	0	600	600	0
4/30/2024 17:29	67605	WARW_T1	0	0	0	0	0	0	-0.69	-0.77	0	0	0	0	0	0
4/30/2024 17:33	54201	PENN_T1	7	11	4	0.66	0.65	-0.01	-0.5	-0.5	0	0	0	0	0	0
4/30/2024 17:33	54203	PENN_T1	18	18	0	0.56	0.71	0.15	0	0	0	0	0	0	0	0
4/30/2024 17:34	67605	WARW_T1	0	0	0	0	0	0	-0.69	-0.77	0	0	0	0	0	0
4/30/2024 17:34	45902	AUBU_T1	0	0	0	0	0	0	-0.78	-0.82	1	1	0	600	600	0
4/30/2024 17:35	14404	SSLA_T1	1	2	1	5.1	2.8	-2.3	0.09	0.11	0	0	0	0	0	0
4/30/2024 17:35	14401	SSLA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/30/2024 17:35	14402	SSLA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/30/2024 17:36	58003	WCAR_T1	2	4	2	0.9	0.5	-0.4	0.49	0.42	1	1	0	600	600	0
4/30/2024 17:36	58001	WCAR_T1	4	4	0	0.85	1.03	0.18	0	0	0	0	0	0	0	0
4/30/2024 17:37	51003	NHAR_T1	0	0	0	0	0	0	-2.58	-2.53	1	1	0	1200	1200	0
4/30/2024 17:37	51004	NHAR_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
4/30/2024 17:38	54203	PENN_T1	18	18	0	0.56	0.71	0.15	0	0	0	0	0	0	0	0
4/30/2024 17:38	54201	PENN_T1	7	11	4	0.66	0.65	-0.01	-0.5	-0.5	0	0	0	0	0	0
4/30/2024 17:39	14404	SSLA_T1	1	2	1	5.1	2.8	-2.3	0.11	0.12	0	0	0	0	0	0
4/30/2024 17:39	14402	SSLA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
4/30/2024 17:39	14401	SSLA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
4/30/2024 17:46	63305	GREE_T1	12	14	2	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
4/30/2024 17:46	63302	GREE_T1	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
4/30/2024 17:46	63306	GREE_T1	0	0	0	0	0	0	-1.65	-1.65	1	1	0	900	900	0
4/30/2024 17:50	55002	NEWP_T1	2	2	0	0.85	0.45	-0.4	0	0	0	0	0	0	0	0
4/30/2024 17:50	55001	NEWP_T1	0	0	0	0	0	0	-0.56	-0.58	1	1	0	600	600	0
4/30/2024 17:52	59101	WALK_T2	0	0	0	0	0	0	1.4	1.6	0	0	0	0	0	0
4/30/2024 17:52	52501	PROG_T1	0	0	0	0	0	0	0.67	0.62	1	1	0	300	300	0
4/30/2024 17:52	55002	NEWP_T1	2	2	0	0.85	0.45	-0.4	0	0	0	0	0	0	0	0
4/30/2024 17:52	55001	NEWP_T1	0	0	0	0	0	0	-0.56	-0.58	1	1	0	600	600	0
4/30/2024 17:53	52501	PROG_T1	0	0	0	0	0	0	1.23	1.16	2	2	0	600	600	0
4/30/2024 18:08	67702	WERN_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
4/30/2024 18:09	51505	SWAT_T2	0	0	0	0	0	0	0.77	0.53	0	0	0	0	0	0
4/30/2024 18:13	51903	COPA_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
4/30/2024 18:13	51904	COPA_T1	5	5	0	0.76	0.88	0.12	0	0	0	0	0	0	0	0
4/30/2024 18:23	61102	BERK_T5	0	0	0	0	0	0	0.46	0.54	1	1	0	300	300	0
4/30/2024 18:39	14802	TREI_T2	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
4/30/2024 18:42	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 18:42	67805	WLAN_T1	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
4/30/2024 18:45	62604	ENGL_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/30/2024 18:45	62607	ENGL_T1	1	2	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 18:45	62605	ENGL_T1	0	0	0	0	0	0	-1.26	-1.26	0	0	0	0	0	0
4/30/2024 18:47	64904	MILL_T1	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
4/30/2024 18:49	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 18:49	65004	NEFF_T2	0	0	0	0	0	0	-0.54	-0.57	1	1	0	600	600	0
4/30/2024 18:57	55102	WERT_T2	0	0	0	0	0	0	-0.36	-0.42	1	1	0	600	600	0
4/30/2024 19:01	25404	LAHA_T2	55	186	131	0.11	0.11	0	0	0	0	0	0	0	0	0
4/30/2024 19:01	25402	LAHA_T2	0	132	132	0	0.7	0.7	-0.85	-0.8	0	0	0	0	0	0
4/30/2024 19:07	65803	RTWN_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 19:07	65802	RTWN_T2	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
4/30/2024 19:16	67801	WLAN_T1	0	0	0	0	0	0	0.21	0.1	0	0	0	0	0	0
4/30/2024 20:14	46203	DANV_T2	84	169	85	0.33	0.5	0.17	-0.95	-0.98	0	0	0	0	0	0
4/30/2024 20:29	26704	HEML_T2	0	0	0	0	0	0	-0.88	-0.86	1	1	0	1200	1200	0
4/30/2024 20:32	45702	LIND_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
4/30/2024 20:34	45702	LIND_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
4/30/2024 20:35	60605	NCOL_T2	0	0	0	0	0	0	-0.41	-0.38	0	0	0	0	0	0
4/30/2024 20:37	55002	NEWP_T1	2	4	2	0.6	0.48	-0.12	-0.24	-0.22	0	0	0	0	0	0
4/30/2024 20:39	55002	NEWP_T1	2	4	2	0.6	0.48	-0.12	-0.22	-0.24	0	0	0	0	0	0
4/30/2024 20:40	55002	NEWP_T1	2	4	2	0.6	0.48	-0.12	-0.22	-0.24	0	0	0	0	0	0
4/30/2024 20:40	56803	BENV_T1	3	5	2	0.13	0.82	0.69	0	0	0	0	0	0	0	0
4/30/2024 20:40	56801	BENV_T1	2	11	9	0.25	0.22	-0.03	-0.65	-0.67	1	1	0	600	600	0
4/30/2024 20:40	60605	NCOL_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/30/2024 20:44	60605	NCOL_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
4/30/2024 20:46	53902	HALI_T2	1	1	0	4.5	5	0.5	0	0	0	0	0	0	0	0
4/30/2024 20:46	53901	HALI_T2	0	1	1	0	0.7	0.7	-0.14	-0.26	0	0	0	0	0	0
4/30/2024 20:46	53903	HALI_T2	2	2	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
4/30/2024 20:48	21206	ECAR_T2	6	6	0	3.05	8.2	5.15	1.32	1.31	0	0	0	0	0	0
4/30/2024 20:48	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 20:50	28805	LAKE_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
4/30/2024 20:54	16402	MOPO_T1	2	2	0	0.65	0	-0.65	-0.03	-0.05	0	0	0	0	0	0
4/30/2024 20:54	26703	HEML_T1	0	0	0	0	0	0	-0.97	-0.98	1	1	0	600	600	0
4/30/2024 20:56	13502	MCMI_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/30/2024 20:56	13501	MCMI_T1	0	0	0	0	0	0	0.17	0.07	0	0	0	0	0	0
4/30/2024 21:01	15603	NSTR_T2	9	11	2	0.18	0.19	0.01	-0.61	-0.58	0	0	0	0	0	0
4/30/2024 21:01	15601	NSTR_T2	4	4	0	0.68	0.78	0.1	0	0	0	0	0	0	0	0
4/30/2024 21:01	15602	NSTR_T2	4	16	12	0.1	0.11	0.01	0	0	0	0	0	0	0	0
4/30/2024 21:03	53901	HALI_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
4/30/2024 21:03	53903	HALI_T2	2	2	0	1.1	1.5	0.4	-0.19	-0.19	0	0	0	0	0	0
4/30/2024 21:03	53902	HALI_T2	1	1	0	4.8	5.4	0.6	0	0	0	0	0	0	0	0
4/30/2024 21:04	54203	PENN_T1	18	18	0	0.64	0.82	0.18	0.96	0.95	0	0	0	0	0	0
4/30/2024 21:04	54201	PENN_T1	9	9	0	1.08	0.97	-0.11	0	0	0	0	0	0	0	0
4/30/2024 21:10	44601	SALE_T2	0	1	1	0	0.1	0.1	0.06	0	0	0	0	0	0	0
4/30/2024 21:11	29402	BELT_T1	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
4/30/2024 21:11	29401	BELT_T1	45	58	13	0.2	0.24	0.04	0	0	2	2	0	1800	1800	0
4/30/2024 21:12	29402	BELT_T1	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
4/30/2024 21:12	29401	BELT_T1	45	58	13	0.2	0.24	0.04	0	0	1	1	0	900	900	0
4/30/2024 21:13	26401	INOR_T1	1	1	0	9.6	9.9	0.3	0.28	0.28	0	0	0	0	0	0
4/30/2024 21:13	29402	BELT_T1	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
4/30/2024 21:13	29401	BELT_T1	45	58	13	0.2	0.24	0.04	0	0	1	1	0	900	900	0
4/30/2024 21:14	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 21:17	24202	PROV_T4	0	0	0	0	0	0	-0.75	-0.78	1	1	0	1200	1200	0
4/30/2024 21:18	14402	SSLA_T1	26	51	25	0.2	0.22	0.02	0	0	0	0	0	0	0	0
4/30/2024 21:18	14403	SSLA_T1	2	13	11	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/30/2024 21:18	45501	DERR_T2	0	1	1	0	0.3	0.3	0.18	-0.32	2	2	0	1800	1800	0
4/30/2024 21:18	14404	SSLA_T1	18	50	32	0.51	0.29	-0.22	0	0	0	0	0	0	0	0
4/30/2024 21:18	14401	SSLA_T1	5	8	3	0.16	0.2	0.04	-0.49	-0.5	0	0	0	0	0	0
4/30/2024 21:19	24204	PROV_T3	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
4/30/2024 21:19	24201	PROV_T3	1	1	0	7.4	7.8	0.4	0	0	0	0	0	0	0	0
4/30/2024 21:19	24205	PROV_T3	1	1	0	3.1	4	0.9	0	0	0	0	0	0	0	0
4/30/2024 21:20	14404	SSLA_T1	18	50	32	0.51	0.29	-0.22	0.07	0.04	0	0	0	0	0	0
4/30/2024 21:20	14403	SSLA_T1	2	13	11	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/30/2024 21:20	14401	SSLA_T1	5	8	3	0.16	0.2	0.04	0	0	0	0	0	0	0	0
4/30/2024 21:20	14402	SSLA_T1	26	51	25	0.2	0.22	0.02	0	0	0	0	0	0	0	0
4/30/2024 21:21	14802	TREI_T2	15	17	2	0.25	0.31	0.06	0.82	0.78	0	0	0	0	0	0
4/30/2024 21:21	14801	TREI_T2	7	22	15	0.17	0.17	0	0	0	0	0	0	0	0	0
4/30/2024 21:22	44505	HAMI_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
4/30/2024 21:22	44502	HAMI_T2	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
4/30/2024 21:23	15001	BLMO_T1	5	4	-1	0.2	0.58	0.38	0	0	0	0	0	0	0	0
4/30/2024 21:24	14404	SSLA_T1	18	50	32	0.51	0.29	-0.22	0.08	0.02	0	0	0	0	0	0
4/30/2024 21:24	46302	ROHR_T1	18	47	29	0.63	0.39	-0.24	0	0	0	0	0	0	0	0
4/30/2024 21:24	14401	SSLA_T1	5	8	3	0.16	0.2	0.04	0	0	0	0	0	0	0	0
4/30/2024 21:24	14402	SSLA_T1	26	51	25	0.2	0.22	0.02	0	0	0	0	0	0	0	0
4/30/2024 21:24	46301	ROHR_T1	229	256	27	0.39	0.43	0.04	0.19	0.18	0	0	0	0	0	0
4/30/2024 21:24	14403	SSLA_T1	2	13	11	0.1	0.13	0.03	0	0	0	0	0	0	0	0
4/30/2024 21:25	15001	BLMO_T1	5	4	-1	0.2	0.58	0.38	0	0	0	0	0	0	0	0
4/30/2024 21:25	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
4/30/2024 21:26	46302	ROHR_T1	18	47	29	0.63	0.39	-0.24	0	0	0	0	0	0	0	0
4/30/2024 21:26	46206	DANV_T2	0	0	0	0	0	0	2.16	2.16	1	1	0	1200	1200	0
4/30/2024 21:26	46203	DANV_T2	195	285	90	0.57	0.79	0.22	0	0	0	0	0	0	0	0
4/30/2024 21:26	46301	ROHR_T1	229	256	27	0.39	0.43	0.04	0.19	0.18	0	0	0	0	0	0
4/30/2024 21:27	14801	TREI_T2	7	22	15	0.17	0.17	0	0.49	0.49	0	0	0	0	0	0
4/30/2024 21:27	14802	TREI_T2	15	17	2	0.25	0.31	0.06	0	0	0	0	0	0	0	0
4/30/2024 21:27	45902	AUBU_T1	0	0	0	0	0	0	-0.91	-0.96	1	1	0	600	600	0
4/30/2024 21:27	15001	BLMO_T1	5	4	-1	0.2	0.58	0.38	0	0	0	0	0	0	0	0
4/30/2024 21:28	26002	WDAM_T1	2	1	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
4/30/2024 21:28	49803	UNIV_T1	13	23	10	0.15	0.14	-0.01	-0.99	-0.99	0	0	0	0	0	0
4/30/2024 21:28	49804	UNIV_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
4/30/2024 21:28	26001	WDAM_T1	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
4/30/2024 21:30	46203	DANV_T2	262	284	22	0.65	0.79	0.14	-1.01	-1.03	0	0	0	0	0	0
4/30/2024 21:30	10801	CHHI_T1	0	0	0	0	0	0	-0.63	-0.61	1	1	0	900	900	0
4/30/2024 21:30	40505	CRES_T1	3	3	0	4.87	5.1	0.23	1.28	1.11	0	0	0	0	0	0
4/30/2024 21:31	46203	DANV_T2	262	284	22	0.65	0.79	0.14	-1.01	-1.03	0	0	0	0	0	0
4/30/2024 21:32	10801	CHHI_T1	0	0	0	0	0	0	-0.63	-0.61	1	1	0	900	900	0
4/30/2024 21:32	14203	EALL_T1	0	0	0	0	0	0	-0.24	-0.27	1	1	0	1200	1200	0
4/30/2024 21:32	14204	EALL_T2	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
4/30/2024 21:33	11101	EGYP_T1	1	0	-1	0.8	0	-0.8	0	0	1	1	0	1200	1200	0
4/30/2024 21:33	43202	MVIL_T2	144	156	12	0.69	0.81	0.12	-0.73	-0.72	0	0	0	0	0	0
4/30/2024 21:33	11103	EGYP_T1	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
4/30/2024 21:34	12505	MITR_T2	0	0	0	0	0	0	0.97	1	0	0	0	0	0	0
4/30/2024 21:34	12502	MITR_T2	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
4/30/2024 21:34	11103	EGYP_T1	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
4/30/2024 21:34	11101	EGYP_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
4/30/2024 21:35	14205	EALL_T2	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
4/30/2024 21:36	46002	BERW_T2	0	0	0	0	0	0	-0.96	-0.89	1	1	0	900	900	0
4/30/2024 21:36	11507	FREE_T2	0	0	0	0	0	0	1.37	1.39	0	0	0	0	0	0
4/30/2024 21:37	24105	EHAZ_T1	4	4	0	5.63	6.35	0.72	0	0	0	0	0	0	0	0
4/30/2024 21:37	66703	STRA_T1	0	46	46	0	0.27	0.27	-0.07	-0.09	0	0	0	0	0	0
4/30/2024 21:37	24501	GOUL_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
4/30/2024 21:37	24102	EHAZ_T1	0	1	1	0	0	0	0.4	0.3	0	0	0	0	0	0
4/30/2024 21:38	43202	MVIL_T2	144	156	12	0.69	0.81	0.12	0	0	0	0	0	0	0	0
4/30/2024 21:38	43201	MVIL_T2	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
4/30/2024 21:38	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 21:38	62605	ENGL_T1	0	0	0	0	0	0	-1.09	-1.06	0	0	0	0	0	0
4/30/2024 21:39	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
4/30/2024 21:40	41802	GOCI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
4/30/2024 21:40	46206	DANV_T2	0	0	0	0	0	0	2.16	2.16	1	1	0	1200	1200	0
4/30/2024 21:40	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 21:40	46203	DANV_T2	262	284	22	0.65	0.79	0.14	0	0	0	0	0	0	0	0
4/30/2024 21:40	10805	CHHI_T2	1	1	0	7.4	7.4	0	-2.02	-1.94	2	2	0	1200	1200	0
4/30/2024 21:41	28403	HART_T2	0	0	0	0	0	0	-0.97	-0.96	1	1	0	900	900	0
4/30/2024 21:41	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
4/30/2024 21:41	46203	DANV_T2	262	284	22	0.65	0.79	0.14	-1.03	-1.03	0	0	0	0	0	0
4/30/2024 21:42	10805	CHHI_T2	1	1	0	7.4	7.4	0	-1.01	-0.97	1	1	0	600	600	0
4/30/2024 21:43	55002	NEWP_T1	4	4	0	0.5	0.98	0.48	0	0	0	0	0	0	0	0
4/30/2024 21:43	64904	MILL_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
4/30/2024 21:43	55001	NEWP_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
4/30/2024 21:44	23202	HIRU_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
4/30/2024 21:44	23201	HIRU_T2	17	1	-16	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
4/30/2024 21:44	23203	HIRU_T2	8	0	-8	0.13	0	-0.13	0.05	0.05	0	0	0	0	0	0
4/30/2024 21:44	45501	DERR_T2	0	1	1	0	0.4	0.4	-0.33	-0.37	2	2	0	1800	1800	0
4/30/2024 21:44	16902	MECK_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
4/30/2024 21:45	44504	HAMI_T2	0	0	0	0	0	0	-1.22	-1.25	0	0	0	0	0	0
4/30/2024 21:45	20403	ASHF_T2	42	43	1	0.94	1.25	0.31	0	0	0	0	0	0	0	0
4/30/2024 21:45	44502	HAMI_T2	1	1	0	2.7	2.8	0.1	0	0	0	0	0	0	0	0
4/30/2024 21:45	46202	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 21:45	46203	DANV_T2	280	288	8	0.8	0.81	0.01	-1.03	-1.03	0	0	0	0	0	0
4/30/2024 21:45	20401	ASHF_T2	5	6	1	0.42	0.5	0.08	-0.18	-0.2	0	0	0	0	0	0
4/30/2024 21:46	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 21:46	45501	DERR_T2	1	1	0	0.3	0.4	0.1	-0.33	-0.37	2	2	0	1800	1800	0
4/30/2024 21:47	20403	ASHF_T2	42	43	1	0.94	1.25	0.31	0.22	0.21	0	0	0	0	0	0
4/30/2024 21:47	20401	ASHF_T2	5	6	1	0.42	0.5	0.08	0	0	0	0	0	0	0	0
4/30/2024 21:47	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 21:47	45501	DERR_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
4/30/2024 21:47	63306	GREE_T1	0	0	0	0	0	0	-1.99	-1.04	1	0	-1	900	0	-900
4/30/2024 21:47	63304	GREE_T1	7	2	-5	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
4/30/2024 21:47	63305	GREE_T1	13	3	-10	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
4/30/2024 21:47	45502	DERR_T2	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
4/30/2024 21:48	61301	EARL_T1	0	0	0	0	0	0	-0.76	0.22	1	0	-1	900	0	-900
4/30/2024 21:48	67703	WERN_T2	0	0	0	0	0	0	-0.59	-0.63	1	1	0	900	900	0
4/30/2024 21:48	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 21:48	13302	ORVI_T2	0	0	0	0	0	0	1.47	1.47	0	0	0	0	0	0
4/30/2024 21:48	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
4/30/2024 21:48	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
4/30/2024 21:48	16301	ALPA_T1	1	2	1	0.3	0.35	0.05	-0.24	-0.24	0	0	0	0	0	0
4/30/2024 21:48	17002	RIRO_T2	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
4/30/2024 21:49	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 21:49	44301	BEAV_T2	0	0	0	0	0	0	0.2	0.08	1	1	0	600	600	0
4/30/2024 21:49	21901	HUMB_T1	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
4/30/2024 21:49	56802	BENV_T2	1	10	9	0.4	0.19	-0.21	-1.34	-1.38	0	0	0	0	0	0
4/30/2024 21:50	64702	LITI_T2	0	0	0	0	0	0	-0.37	-0.47	0	0	0	0	0	0
4/30/2024 21:50	56801	BENV_T1	16	15	-1	1.03	1.05	0.02	-0.75	-0.11	1	0	-1	600	0	-600
4/30/2024 21:50	54201	PENN_T1	7	8	1	1.04	0.93	-0.11	-0.76	-0.79	0	0	0	0	0	0
4/30/2024 21:50	45902	AUBU_T1	0	0	0	0	0	0	-0.96	-1.08	1	1	0	600	600	0
4/30/2024 21:50	54203	PENN_T1	18	18	0	0.57	0.62	0.05	0	0	0	0	0	0	0	0
4/30/2024 21:50	56803	BENV_T1	6	6	0	0.52	1.08	0.56	0	0	0	0	0	0	0	0
4/30/2024 21:50	67703	WERN_T2	0	0	0	0	0	0	-0.59	-0.63	1	1	0	900	900	0
4/30/2024 21:51	56803	BENV_T1	6	6	0	0.52	1.08	0.56	0	0	0	0	0	0	0	0
4/30/2024 21:51	64904	MILL_T1	0	5	5	0	0.18	0.18	0.05	0.04	0	0	0	0	0	0
4/30/2024 21:51	60605	NCOL_T2	0	0	0	0	0	0	-0.46	-0.43	0	0	0	0	0	0
4/30/2024 21:51	64201	KINZ_T1	9	7	-2	0.56	0.33	-0.23	-0.52	0.44	2	1	-1	1200	300	-900
4/30/2024 21:51	65003	NEFF_T2	43	30	-13	0.14	0.14	0	0	0	0	0	0	0	0	0
4/30/2024 21:51	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 21:51	65001	NEFF_T2	0	0	0	0	0	0	-0.51	-0.54	1	1	0	1200	1200	0
4/30/2024 21:51	56801	BENV_T1	16	15	-1	1.03	1.05	0.02	-0.75	-0.11	1	0	-1	600	0	-600
4/30/2024 21:51	47401	PENS_T1	0	0	0	0	0	0	1.11	1.09	0	0	0	0	0	0
4/30/2024 21:51	64202	KINZ_T1	9	3	-6	0.27	0.5	0.23	0	0	0	0	0	0	0	0
4/30/2024 21:51	64901	MILL_T1	0	11	11	0	0.17	0.17	0	0	0	0	0	0	0	0
4/30/2024 21:51	64902	MILL_T2	0	0	0	0	0	0	-0.97	-0.37	1	1	0	900	900	0
4/30/2024 21:51	60803	BUCK_T1	2	9	7	0.1	0.26	0.16	-1.09	-1.11	1	1	0	600	600	0
4/30/2024 21:51	64204	KINZ_T1	32	13	-19	0.28	0.22	-0.06	0	0	0	0	0	0	0	0
4/30/2024 21:52	65502	MOJO_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 21:52	56802	BENV_T2	1	10	9	0.4	0.19	-0.21	-0.67	-0.69	0	0	0	0	0	0
4/30/2024 21:52	51004	NHAR_T1	4	5	1	1.6	1.38	-0.22	0	-0.26	0	0	0	0	0	0
4/30/2024 21:52	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 21:52	51002	NHAR_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
4/30/2024 21:52	65503	MOJO_T2	0	0	0	0	0	0	0.05	0.09	0	0	0	0	0	0
4/30/2024 21:52	12701	MACU_T1	0	0	0	0	0	0	-1.13	-1.15	1	1	0	1200	1200	0
4/30/2024 21:53	65702	RVIL_T2	0	0	0	0	0	0	-0.71	-0.73	1	1	0	600	600	0
4/30/2024 21:53	61506	EPET_T2	0	0	0	0	0	0	-1.02	-1.04	1	1	0	900	900	0
4/30/2024 21:53	67801	WLAN_T1	0	0	0	0	0	0	-0.22	0.34	0	0	0	0	0	0
4/30/2024 21:53	67805	WLAN_T1	22	65	43	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/30/2024 21:53	45902	AUBU_T1	0	0	0	0	0	0	-1.08	-1.1	1	1	0	600	600	0
4/30/2024 21:53	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 21:53	67002	STHI_T2	0	0	0	0	0	0	0.95	0.99	0	0	0	0	0	0
4/30/2024 21:53	62102	ELAN_T1	0	0	0	0	0	0	1.12	1.06	0	0	0	0	0	0
4/30/2024 21:53	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 21:53	66504	SMAN_T2	0	0	0	0	0	0	-0.39	-0.53	2	0	-2	2400	0	-2400
4/30/2024 21:53	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 21:53	64802	MONE_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
4/30/2024 21:53	61102	BERK_T5	0	0	0	0	0	0	0.89	0.64	1	1	0	300	300	0
4/30/2024 21:53	61501	EPET_T2	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
4/30/2024 21:53	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
4/30/2024 21:53	59101	WALK_T2	0	0	0	0	0	0	1.03	0.92	0	0	0	0	0	0
4/30/2024 21:53	67703	WERN_T2	0	0	0	0	0	0	-0.63	-0.7	1	1	0	900	900	0
4/30/2024 21:54	63401	HONY_T1	0	0	0	0	0	0	0.68	0.71	0	0	0	0	0	0
4/30/2024 21:54	45901	AUBU_T1	0	0	0	0	0	0	4.26	4.21	0	0	0	0	0	0
4/30/2024 21:54	56802	BENV_T2	1	10	9	0.4	0.19	-0.21	-2.75	-5.48	0	0	0	0	0	0
4/30/2024 21:54	65205	PRIN_T1	1	1	0	1.7	1.9	0.2	0	0	0	0	0	0	0	0
4/30/2024 21:54	59003	MIFF_T1	0	0	0	0	0	0	0.54	-0.43	0	0	0	0	0	0
4/30/2024 21:54	67605	WARW_T1	0	0	0	0	0	0	-0.16	-0.02	0	0	0	0	0	0
4/30/2024 21:54	56501	ROCK_T2	0	2	2	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 21:54	65203	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 21:54	63202	MGTN_T2	0	0	0	0	0	0	-0.09	-0.12	1	1	0	900	900	0
4/30/2024 21:55	64201	KINZ_T1	9	7	-2	0.56	0.33	-0.23	0.44	0.54	1	1	0	300	300	0
4/30/2024 21:55	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 21:55	65502	MOJO_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 21:55	51505	SWAT_T2	0	0	0	0	0	0	0.62	-0.09	0	0	0	0	0	0
4/30/2024 21:55	64204	KINZ_T1	32	13	-19	0.28	0.22	-0.06	0	0	0	0	0	0	0	0
4/30/2024 21:55	12701	MACU_T1	0	0	0	0	0	0	-1.15	-1.16	1	1	0	1200	1200	0
4/30/2024 21:55	56802	BENV_T2	1	10	9	0.4	0.19	-0.21	-0.69	-1.37	0	0	0	0	0	0
4/30/2024 21:55	64202	KINZ_T1	9	3	-6	0.27	0.5	0.23	0	0	0	0	0	0	0	0
4/30/2024 21:55	45902	AUBU_T1	0	0	0	0	0	0	-1.08	-1.1	1	1	0	600	600	0
4/30/2024 21:55	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 21:55	56501	ROCK_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
4/30/2024 21:55	65503	MOJO_T2	0	0	0	0	0	0	0.09	-0.06	0	0	0	0	0	0
4/30/2024 21:56	52002	LING_T2	0	0	0	0	0	0	0.24	0.17	0	0	0	0	0	0
4/30/2024 21:56	45802	HEGI_T2	24	41	17	0.42	0.61	0.19	0.67	0.64	0	0	0	0	0	0
4/30/2024 21:56	40601	PIGR_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/30/2024 21:56	56501	ROCK_T2	0	2	2	0	0.3	0.3	-0.02	-0.02	0	0	0	0	0	0
4/30/2024 21:56	45901	AUBU_T1	0	0	0	0	0	0	2.13	2.1	0	0	0	0	0	0
4/30/2024 21:56	40602	PIGR_T1	0	0	0	0	0	0	0.25	0.17	0	0	0	0	0	0
4/30/2024 21:56	61102	BERK_T5	0	0	0	0	0	0	1.78	1.28	2	2	0	600	600	0
4/30/2024 21:56	42203	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 21:56	42201	SHEN_T2	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
4/30/2024 21:56	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 21:57	20403	ASHF_T2	42	43	1	0.94	1.25	0.31	0.21	0.16	0	0	0	0	0	0
4/30/2024 21:57	63801	HEMP_T1	1	28	27	0.1	0.15	0.05	0	0	0	0	0	0	0	0
4/30/2024 21:57	20401	ASHF_T2	5	6	1	0.42	0.5	0.08	0	0	0	0	0	0	0	0
4/30/2024 21:57	56802	BENV_T2	1	10	9	0.4	0.19	-0.21	-0.69	-1.37	0	0	0	0	0	0
4/30/2024 21:57	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 21:57	42903	MIDD_T2	2	2	0	0.5	0.9	0.4	-1.42	-1.58	1	1	0	1200	1200	0
4/30/2024 21:57	64201	KINZ_T1	9	7	-2	0.56	0.33	-0.23	0.44	0.54	1	1	0	300	300	0
4/30/2024 21:57	63803	HEMP_T1	1	99	98	0.1	0.23	0.13	0.81	0.74	0	0	0	0	0	0
4/30/2024 21:57	67803	WLAN_T1	0	0	0	0	0	0	-0.6	-0.66	0	0	0	0	0	0
4/30/2024 21:57	60803	BUCK_T1	2	9	7	0.1	0.26	0.16	-1.11	-1.13	1	1	0	600	600	0
4/30/2024 21:57	66502	SMAN_T2	0	0	0	0	0	0	0.01	-0.08	0	0	0	0	0	0
4/30/2024 21:57	64204	KINZ_T1	32	13	-19	0.28	0.22	-0.06	0	0	0	0	0	0	0	0
4/30/2024 21:57	67805	WLAN_T1	22	65	43	0.1	0.14	0.04	0	0	0	0	0	0	0	0
4/30/2024 21:57	66503	SMAN_T2	0	0	0	0	0	0	0.65	0.59	0	0	0	0	0	0
4/30/2024 21:57	64202	KINZ_T1	9	3	-6	0.27	0.5	0.23	0	0	0	0	0	0	0	0
4/30/2024 21:57	63804	HEMP_T1	1	1	0	5.4	5.1	-0.3	0	0	0	0	0	0	0	0
4/30/2024 21:58	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
4/30/2024 21:58	58001	WCAR_T1	4	4	0	1	1.23	0.23	0	0	0	0	0	0	0	0
4/30/2024 21:58	56802	BENV_T2	1	10	9	0.4	0.19	-0.21	-0.69	-1.37	0	0	0	0	0	0
4/30/2024 21:58	61102	BERK_T5	0	0	0	0	0	0	1.78	1.28	2	2	0	600	600	0
4/30/2024 21:58	58003	WCAR_T1	1	1	0	1.5	1.8	0.3	0.71	0.73	0	0	0	0	0	0
4/30/2024 21:58	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 21:59	42203	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 21:59	51903	COPA_T1	0	0	0	0	0	0	-0.21	-0.25	0	0	0	0	0	0
4/30/2024 21:59	59101	WALK_T2	0	0	0	0	0	0	1.03	0.92	0	0	0	0	0	0
4/30/2024 21:59	57006	WHHI_T2	0	0	0	0	0	0	1.04	0.39	0	1	1	0	600	600
4/30/2024 21:59	57403	SPAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
4/30/2024 21:59	57304	MOAL_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
4/30/2024 21:59	51904	COPA_T1	4	5	1	0.33	0.74	0.41	0	0	0	0	0	0	0	0
4/30/2024 21:59	57303	MOAL_T2	1	1	0	7.8	7.4	-0.4	0	0	0	0	0	0	0	0
4/30/2024 21:59	55104	WERT_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
4/30/2024 21:59	48302	ORWI_T2	2	2	0	1.2	1.45	0.25	-0.05	-0.04	0	0	0	0	0	0
4/30/2024 21:59	52501	PROG_T1	0	0	0	0	0	0	0.34	-1.14	0	0	0	0	0	0
4/30/2024 21:59	56501	ROCK_T2	0	2	2	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 21:59	55102	WERT_T2	0	0	0	0	0	0	-0.57	-0.57	1	1	0	600	600	0
4/30/2024 21:59	42201	SHEN_T2	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
4/30/2024 21:59	56802	BENV_T2	1	10	9	0.4	0.19	-0.21	-2.75	-5.48	0	0	0	0	0	0
4/30/2024 21:59	44301	BEAV_T2	0	0	0	0	0	0	0.16	-0.37	2	2	0	1200	1200	0
4/30/2024 21:59	57401	SPAN_T1	0	2	2	0	0.2	0.2	-3.85	-4.4	3	3	0	1800	1800	0
4/30/2024 21:59	51905	COPA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 21:59	54601	SUMM_T2	0	0	0	0	0	0	-1.78	-1.75	2	2	0	2100	2100	0
4/30/2024 22:00	65802	RTWN_T2	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
4/30/2024 22:00	46602	LACR_T1	0	0	0	0	0	0	-0.95	-0.93	0	0	0	0	0	0
4/30/2024 22:00	55101	WERT_T1	0	0	0	0	0	0	-1.5	-1.54	2	2	0	1800	1800	0
4/30/2024 22:00	42802	SELI_T1	0	1	1	0	0.5	0.5	-1.2	-1.2	0	0	0	0	0	0
4/30/2024 22:01	50701	MAEC_T1	0	0	0	0	0	0	0.7	0.51	0	0	0	0	0	0
4/30/2024 22:01	63801	HEMP_T1	0	28	28	0	0.15	0.15	0	0	0	0	0	0	0	0
4/30/2024 22:01	47401	PENS_T1	0	0	0	0	0	0	1.09	1.04	0	0	0	0	0	0
4/30/2024 22:01	58402	MORO_T1	0	0	0	0	0	0	-0.53	-0.51	2	2	0	1500	1500	0
4/30/2024 22:01	63803	HEMP_T1	16	99	83	0.12	0.23	0.11	0	0	0	0	0	0	0	0
4/30/2024 22:01	63804	HEMP_T1	1	1	0	5.2	5.1	-0.1	-0.24	-0.27	0	0	0	0	0	0
4/30/2024 22:01	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 22:01	67805	WLAN_T1	58	235	177	0.13	0.19	0.06	-1.25	-1.25	0	0	0	0	0	0
4/30/2024 22:02	61803	EELI_T2	0	0	0	0	0	0	0.89	0.2	0	1	1	0	600	600
4/30/2024 22:02	42802	SELI_T1	0	1	1	0	0.5	0.5	-1.2	-1.2	0	0	0	0	0	0
4/30/2024 22:02	13704	SCHN_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
4/30/2024 22:03	67402	WAKE_T2	0	0	0	0	0	0	-0.21	-0.24	1	1	0	600	600	0
4/30/2024 22:03	67401	WAKE_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
4/30/2024 22:03	56501	ROCK_T2	2	0	-2	0.3	0	-0.3	-0.01	-0.01	0	0	0	0	0	0
4/30/2024 22:04	57101	SPHI_T2	6	6	0	0.53	0.55	0.02	0	0	0	0	0	0	0	0
4/30/2024 22:04	57103	SPHI_T2	0	0	0	0	0	0	-0.06	-0.13	1	1	0	600	600	0
4/30/2024 22:04	57106	SPHI_T2	2	2	0	1.25	1.65	0.4	0	0	0	0	0	0	0	0
4/30/2024 22:04	56801	BENV_T1	15	9	-6	1.05	0.31	-0.74	0	0	0	0	0	0	0	0
4/30/2024 22:04	56803	BENV_T1	6	5	-1	1.08	0.18	-0.9	-0.28	-0.35	0	0	0	0	0	0
4/30/2024 22:05	56802	BENV_T2	10	68	58	0.19	0.16	-0.03	-0.69	-1.37	0	0	0	0	0	0
4/30/2024 22:05	52501	PROG_T1	0	0	0	0	0	0	0.17	-0.57	0	0	0	0	0	0
4/30/2024 22:06	52002	LING_T2	0	0	0	0	0	0	0.24	0.17	0	0	0	0	0	0
4/30/2024 22:06	55002	NEWP_T1	4	4	0	0.98	0.45	-0.53	0	0	0	0	0	0	0	0
4/30/2024 22:06	55001	NEWP_T1	0	0	0	0	0	0	-0.23	-0.27	0	0	0	0	0	0
4/30/2024 22:07	22003	BOHE_T1	1	1	0	0.2	1.1	0.9	0	0	0	0	0	0	0	0
4/30/2024 22:08	45501	DERR_T2	1	1	0	0.4	0.5	0.1	-0.37	-0.39	2	2	0	1800	1800	0
4/30/2024 22:09	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4/30/2024 22:09	59101	WALK_T2	0	0	0	0	0	0	0.92	1.15	0	0	0	0	0	0
4/30/2024 22:09	47401	PENS_T1	0	0	0	0	0	0	1.04	1.06	0	0	0	0	0	0
4/30/2024 22:10	46506	LOHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
4/30/2024 22:10	46801	HEPB_T2	1	2	1	0.1	0.25	0.15	0.59	0.59	0	0	0	0	0	0
4/30/2024 22:10	46505	LOHA_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
4/30/2024 22:10	46504	LOHA_T1	2	8	6	1.2	0.41	-0.79	0	0	0	0	0	0	0	0
4/30/2024 22:11	44301	BEAV_T2	0	0	0	0	0	0	-0.19	0.57	1	1	0	600	600	0
4/30/2024 22:12	58402	MORO_T1	0	0	0	0	0	0	-0.51	-0.59	2	2	0	1500	1500	0
4/30/2024 22:19	45602	WOOL_T1	2	3	1	0.65	0.53	-0.12	0.42	0.44	0	0	0	0	0	0
4/30/2024 22:21	54201	PENN_T1	7	7	0	0.97	0.71	-0.26	0	0	0	0	0	0	0	0
4/30/2024 22:21	54203	PENN_T1	18	18	0	0.46	0.38	-0.08	0.86	0.82	0	0	0	0	0	0
4/30/2024 22:42	51002	NHAR_T1	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
4/30/2024 22:42	51004	NHAR_T1	1	2	1	6.3	3	-3.3	0	0	0	0	0	0	0	0
4/30/2024 22:42	51003	NHAR_T1	0	0	0	0	0	0	-3.25	-3.31	1	1	0	1200	1200	0
4/30/2024 23:17	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
4/30/2024 23:31	12701	MACU_T1	0	0	0	0	0	0	-1.23	0.02	1	0	-1	1200	0	-1200
4/30/2024 23:36	60101	COCA_T1	0	0	0	0	0	0	0.31	0.27	0	0	0	0	0	0
5/1/2024 1:21	25503	MADI_T1	725	925	200	0.96	0.85	-0.11	-1.16	-1.15	0	0	0	0	0	0
5/1/2024 1:21	25501	MADI_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
5/1/2024 3:26	67703	WERN_T2	0	0	0	0	0	0	-1.03	-1.03	1	1	0	900	900	0
5/1/2024 6:51	66502	SMAN_T2	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
5/1/2024 6:57	15001	BLMO_T1	4	3	-1	0.13	0.8	0.67	0	0	0	0	0	0	0	0
5/1/2024 7:08	14702	TREX_T2	0	0	0	0	0	0	0.89	0.9	0	0	0	0	0	0
5/1/2024 7:09	14702	TREX_T2	0	0	0	0	0	0	0.9	0.88	0	0	0	0	0	0
5/1/2024 7:10	67703	WERN_T2	0	0	0	0	0	0	-0.91	-0.88	1	1	0	900	900	0
5/1/2024 7:18	58402	MORO_T1	0	0	0	0	0	0	-1	-0.98	3	3	0	2400	2400	0
5/1/2024 7:20	15203	SFAR_T2	30	132	102	0.13	0.21	0.08	0	0	0	0	0	0	0	0
5/1/2024 7:20	15204	SFAR_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
5/1/2024 7:20	67703	WERN_T2	0	0	0	0	0	0	-0.91	-0.88	1	1	0	900	900	0
5/1/2024 7:22	15203	SFAR_T2	30	132	102	0.13	0.21	0.08	-1.32	-1.31	0	0	0	0	0	0
5/1/2024 7:24	10705	CATA_T2	0	0	0	0	0	0	-1.03	-1	1	1	0	900	900	0
5/1/2024 7:24	67703	WERN_T2	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
5/1/2024 7:28	23403	HONE_T1	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
5/1/2024 7:28	23404	HONE_T1	1	1	0	3.5	3.6	0.1	0	0	0	0	0	0	0	0
5/1/2024 7:32	12505	MITR_T2	0	0	0	0	0	0	1.12	1.13	0	0	0	0	0	0
5/1/2024 7:32	12502	MITR_T2	1	1	0	6.1	5.8	-0.3	0	0	0	0	0	0	0	0
5/1/2024 7:42	11504	FREE_T1	0	0	0	0	0	0	-2.41	-2.39	2	2	0	2100	2100	0
5/1/2024 7:44	52002	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 7:44	52004	LING_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
5/1/2024 7:44	52006	LING_T2	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
5/1/2024 7:46	52004	LING_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/1/2024 7:46	52006	LING_T2	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
5/1/2024 7:46	45702	LIND_T2	1	1	0	1.2	1.2	0	-0.46	-0.49	0	0	0	0	0	0
5/1/2024 7:46	52002	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 7:47	43202	MVIL_T2	59	99	40	0.31	1.11	0.8	-0.62	-0.67	0	0	0	0	0	0
5/1/2024 7:47	13303	ORVI_T1	0	0	0	0	0	0	-0.28	-0.24	0	0	0	0	0	0
5/1/2024 7:49	64901	MILL_T1	16	8	-8	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/1/2024 7:49	64904	MILL_T1	5	5	0	0.22	0.18	-0.04	-0.39	-0.32	0	0	0	0	0	0
5/1/2024 7:53	15203	SFAR_T2	132	59	-73	0.21	0.14	-0.07	-1.3	-1.29	0	0	0	0	0	0
5/1/2024 7:54	56802	BENV_T2	2	191	189	0.75	0.28	-0.47	-1.4	-1.41	0	0	0	0	0	0
5/1/2024 7:55	56802	BENV_T2	2	191	189	0.75	0.28	-0.47	-1.4	-1.41	0	0	0	0	0	0
5/1/2024 7:56	10801	OHHI_T1	0	0	0	0	0	0	-0.72	-0.64	1	1	0	900	900	0
5/1/2024 7:57	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 8:04	66703	STRA_T1	6	17	11	0.2	0.18	-0.02	-0.13	-0.06	0	0	0	0	0	0
5/1/2024 8:07	42701	AUGU_T1	1	1	0	0.8	1.5	0.7	0	0	2	2	0	1800	1800	0
5/1/2024 8:08	56802	BENV_T2	28	329	301	0.19	0.45	0.26	-1.41	-1.38	0	0	0	0	0	0
5/1/2024 8:09	67605	WARW_T1	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
5/1/2024 8:09	15203	SFAR_T2	50	62	12	0.14	0.14	0	-1.26	-1.25	0	0	0	0	0	0
5/1/2024 8:09	56802	BENV_T2	28	329	301	0.19	0.45	0.26	-2.82	-2.76	0	0	0	0	0	0
5/1/2024 8:11	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 8:11	56802	BENV_T2	28	329	301	0.19	0.45	0.26	-1.41	-1.38	0	0	0	0	0	0
5/1/2024 8:11	42701	AUGU_T1	1	1	0	0.8	1.5	0.7	0	0	2	2	0	1800	1800	0
5/1/2024 8:12	56802	BENV_T2	28	329	301	0.19	0.45	0.26	-1.41	-1.38	0	0	0	0	0	0
5/1/2024 8:12	51101	CARL_T1	0	0	0	0	0	0	-1.15	-1.05	1	1	0	600	600	0
5/1/2024 8:12	51108	CARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 8:14	67605	WARW_T1	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
5/1/2024 8:15	13901	SEID_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
5/1/2024 8:17	42001	MNVL_T2	1	5	4	0.2	0.26	0.06	-0.04	-0.04	0	0	0	0	0	0
5/1/2024 8:17	42002	MNVL_T2	1	1	0	3.9	4	0.1	0	0	0	0	0	0	0	0
5/1/2024 8:24	67605	WARW_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
5/1/2024 8:24	56802	BENV_T2	191	365	174	0.28	0.42	0.14	-2.76	-2.78	0	0	0	0	0	0
5/1/2024 8:25	56802	BENV_T2	191	365	174	0.28	0.42	0.14	-1.38	-1.39	0	0	0	0	0	0
5/1/2024 8:26	41502	FAIR_T2	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
5/1/2024 8:27	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
5/1/2024 8:28	64702	LITI_T2	0	1	1	0	0	0	-0.45	-0.51	0	0	0	0	0	0
5/1/2024 8:29	67605	WARW_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
5/1/2024 8:33	64702	LITI_T2	0	0	0	0	0	0	-0.45	-0.51	0	0	0	0	0	0
5/1/2024 8:33	13501	MCMI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/1/2024 8:33	13502	MCMI_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/1/2024 8:34	13503	MCMI_T2	1	1	0	0.3	0.9	0.6	-0.01	-0.01	0	0	0	0	0	0
5/1/2024 8:34	14403	SSLA_T1	0	0	0	0	0	0	0.59	0.62	0	0	0	0	0	0
5/1/2024 8:34	14404	SSLA_T1	2	3	1	3.15	2.17	-0.98	0	0	0	0	0	0	0	0
5/1/2024 8:35	14403	SSLA_T1	0	0	0	0	0	0	0.59	0.62	0	0	0	0	0	0
5/1/2024 8:35	14404	SSLA_T1	2	3	1	3.15	2.17	-0.98	0	0	0	0	0	0	0	0
5/1/2024 8:39	15001	BLMO_T1	4	4	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
5/1/2024 8:39	10805	OHHI_T2	1	3	2	8.3	8.7	0.4	-0.76	-0.76	1	1	0	600	600	0
5/1/2024 8:39	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.2	-0.25	0	0	0	0	0	0
5/1/2024 8:39	15704	TANN_T1	0	0	0	0	0	0	-1.27	-1.29	0	0	0	0	0	0
5/1/2024 8:39	15701	TANN_T1	1	2	1	4.5	2.4	-2.1	0	0	0	0	0	0	0	0
5/1/2024 8:40	53502	EVIL_T2	0	0	0	0	0	0	0.08	0.1	2	2	0	1200	1200	0
5/1/2024 8:40	67505	WEWI_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
5/1/2024 8:40	67501	WEWI_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/1/2024 8:40	53501	EVIL_T2	1	2	1	1	0.25	-0.75	0	0	0	0	0	0	0	0
5/1/2024 8:44	40101	HUNT_T2	0	0	0	0	0	0	-0.18	-0.13	0	0	0	0	0	0
5/1/2024 8:44	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.2	-0.25	0	0	0	0	0	0
5/1/2024 8:50	13704	SCHN_T2	1	1	0	0.1	0.1	0	-0.3	-0.3	0	0	0	0	0	0
5/1/2024 8:51	14603	SWHI_T1	1	1	0	0.4	0.5	0.1	-1.05	-1.03	1	1	0	600	600	0
5/1/2024 8:51	67804	WLAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/1/2024 8:51	67803	WLAN_T1	0	0	0	0	0	0	-0.85	-0.83	0	0	0	0	0	0
5/1/2024 8:52	26001	WDAM_T1	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
5/1/2024 8:54	67605	WARW_T1	0	1	1	0	0.4	0.4	-0.25	-0.24	0	0	0	0	0	0
5/1/2024 8:55	67804	WLAN_T1	0	1	1	0	0.3	0.3	-1.08	-1.06	0	0	0	0	0	0
5/1/2024 8:55	56802	BENV_T2	271	305	34	0.26	0.23	-0.03	-1.33	-1.35	0	0	0	0	0	0
5/1/2024 8:59	11507	FREE_T2	0	0	0	0	0	0	1.17	1.06	0	0	0	0	0	0
5/1/2024 8:59	67605	WARW_T1	0	1	1	0	0.4	0.4	-0.25	-0.24	0	0	0	0	0	0
5/1/2024 9:06	67204	TEHI_T2	0	0	0	0	0	0	-0.18	-0.05	0	0	0	0	0	0
5/1/2024 9:09	67605	WARW_T1	1	1	0	0.2	0.4	0.2	-0.24	-0.29	0	0	0	0	0	0
5/1/2024 9:11	62105	ELAN_T1	0	2	2	0	0.15	0.15	0.47	0.47	0	0	0	0	0	0
5/1/2024 9:14	67605	WARW_T1	1	1	0	0.2	0.4	0.2	-0.24	-0.29	0	0	0	0	0	0
5/1/2024 9:15	54504	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/1/2024 9:15	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/1/2024 9:15	54502	ENOL_T2	1	1	0	1	0.9	-0.1	-1.14	-1.11	1	1	0	600	600	0
5/1/2024 9:18	43304	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/1/2024 9:18	43301	WATS_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 9:24	67605	WARW_T1	1	0	-1	0.4	0	-0.4	-0.29	-0.21	0	0	0	0	0	0
5/1/2024 9:25	20401	ASHF_T2	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
5/1/2024 9:25	20403	ASHF_T2	15	6	-9	0.33	0.5	0.17	1.27	1.37	0	0	0	0	0	0
5/1/2024 9:26	10801	OHHI_T1	1	4	3	0.3	0.43	0.13	-0.5	-0.5	1	1	0	900	900	0
5/1/2024 9:27	67605	WARW_T1	1	0	-1	0.4	0	-0.4	-0.29	-0.21	0	0	0	0	0	0
5/1/2024 9:29	67605	WARW_T1	1	0	-1	0.4	0	-0.4	-0.29	-0.21	0	0	0	0	0	0
5/1/2024 9:35	17002	RIRO_T2	137	49	-88	0.18	0.22	0.04	0.68	0.68	0	0	0	0	0	0
5/1/2024 9:36	59101	WALK_T2	3	1	-2	0.4	0.1	-0.3	0.78	1.42	1	0	-1	600	0	-600
5/1/2024 9:36	59102	WALK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/1/2024 9:37	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-0.53	-0.5	1	1	0	600	600	0
5/1/2024 9:37	59102	WALK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/1/2024 9:37	59101	WALK_T2	3	1	-2	0.4	0.1	-0.3	0.78	1.42	1	0	-1	600	0	-600
5/1/2024 9:38	59102	WALK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/1/2024 9:38	59101	WALK_T2	3	1	-2	0.4	0.1	-0.3	1.42	2.1	1	0	-1	600	0	-600
5/1/2024 9:39	67605	WARW_T1	0	0	0	0	0	0	-0.21	-0.25	0	0	0	0	0	0
5/1/2024 9:43	46803	HEPB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 9:43	46801	HEPB_T2	2	2	0	0.6	0.6	0	0.69	0.7	0	0	0	0	0	0
5/1/2024 9:44	67605	WARW_T1	0	0	0	0	0	0	-0.21	-0.25	0	0	0	0	0	0
5/1/2024 9:45	46803	HEPB_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
5/1/2024 9:45	46801	HEPB_T2	2	2	0	0.5	0.6	0.1	0.69	0.7	0	0	0	0	0	0
5/1/2024 9:52	12501	MITR_T2	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
5/1/2024 9:52	12505	MITR_T2	1	1	0	0.2	0.2	0	1.62	1.57	0	0	0	0	0	0
5/1/2024 9:52	12502	MITR_T2	1	1	0	6.5	6.7	0.2	0	0	0	0	0	0	0	0
5/1/2024 9:52	45902	AUBU_T1	0	0	0	0	0	0	-0.5	-0.5	1	1	0	600	600	0
5/1/2024 9:53	45902	AUBU_T1	0	0	0	0	0	0	-0.5	-0.57	1	1	0	600	600	0
5/1/2024 9:54	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
5/1/2024 9:54	67605	WARW_T1	0	0	0	0	0	0	-0.25	-0.16	0	0	0	0	0	0
5/1/2024 9:54	45902	AUBU_T1	0	0	0	0	0	0	-0.5	-0.57	1	1	0	600	600	0
5/1/2024 9:56	45902	AUBU_T1	0	0	0	0	0	0	-0.99	-1.14	2	2	0	1200	1200	0
5/1/2024 9:56	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
5/1/2024 9:58	40101	HUNT_T2	1	1	0	0.1	0.1	0	-0.21	-0.22	0	0	0	0	0	0
5/1/2024 9:59	67605	WARW_T1	0	0	0	0	0	0	-0.25	-0.16	0	0	0	0	0	0
5/1/2024 10:00	63801	HEMP_T1	3	9	6	0.27	0.27	0	0.48	0.78	0	0	0	0	0	0
5/1/2024 10:00	12502	MITR_T2	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
5/1/2024 10:00	46203	DANV_T2	0	2	2	0	0.1	0.1	0.26	0.27	0	0	0	0	0	0
5/1/2024 10:00	24701	FLND_T2	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
5/1/2024 10:00	63804	HEMP_T1	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
5/1/2024 10:00	29401	BELT_T1	3	3	0	0.13	0.17	0.04	0	0	1	1	0	900	900	0
5/1/2024 10:00	40601	PIGR_T1	20	8	-12	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
5/1/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
5/1/2024 10:00	65002	NEFF_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
5/1/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.95	-0.96	3	3	0	2400	2400	0
5/1/2024 10:00	11103	EGYP_T1	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
5/1/2024 10:00	12505	MITR_T2	0	1	1	0	0.2	0.2	1.57	1.79	0	0	0	0	0	0
5/1/2024 10:00	64204	KINZ_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
5/1/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.69	-1.33	1	2	1	900	1800	900
5/1/2024 10:00	16605	PONO_T1	0	0	0	0	0	0	-0.49	-0.49	1	1	0	1200	1200	0
5/1/2024 10:00	56601	HAMP_T1	1	1	0	0.1	0.2	0.1	-1.6	-1.49	0	0	0	0	0	0
5/1/2024 10:00	15404	WALL_T1	0	1	1	0	0.1	0.1	-1.56	-1.57	0	0	0	0	0	0
5/1/2024 10:00	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 10:00	67001	STHI_T2	7	16	9	0.29	0.32	0.03	0	0	0	0	0	0	0	0
5/1/2024 10:00	12602	MACA_T1	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
5/1/2024 10:00	60501	NMAN_T2	3	3	0	4.5	4.5	0	0	0	0	0	0	0	0	0
5/1/2024 10:00	60504	NMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/1/2024 10:00	40505	CRES_T1	4	3	-1	4.05	5	0.95	0.42	0.43	0	0	0	0	0	0
5/1/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	-0.1	-0.1	1	1	0	600	600	0
5/1/2024 10:00	54504	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/1/2024 10:00	12803	MICK_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/1/2024 10:00	59001	MIFF_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
5/1/2024 10:00	54505	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/1/2024 10:00	12605	MACA_T1	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
5/1/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	0.1	-0.04	1	1	0	1200	1200	0
5/1/2024 10:00	43104	SMIL_T2	2	2	0	0.3	0.2	-0.1	-0.78	-0.79	1	1	0	300	300	0
5/1/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
5/1/2024 10:00	42001	MNVL_T2	3	3	0	0.4	0.3	-0.1	0.08	0.12	0	0	0	0	0	0
5/1/2024 10:00	43202	MVIL_T2	92	89	-3	0.71	0.54	-0.17	0	0	0	0	0	0	0	0
5/1/2024 10:00	43102	SMIL_T2	4	1	-3	0.1	0.1	0	0	0	0	0	0	0	0	0
5/1/2024 10:00	14602	SWHI_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/1/2024 10:00	54001	SDLE_T1	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
5/1/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-1.11	-1.07	1	1	0	600	600	0
5/1/2024 10:00	24102	EHAZ_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
5/1/2024 10:00	14601	SWHI_T1	2	5	3	0.4	0.4	0	-0.3	-0.3	0	0	0	0	0	0
5/1/2024 10:00	62605	ENGL_T1	0	0	0	0	0	0	-0.6	-0.56	0	0	0	0	0	0
5/1/2024 10:00	16902	MECK_T1	2	3	1	0.1	0.17	0.07	0.04	0.05	0	0	0	0	0	0
5/1/2024 10:00	51004	NHAR_T1	10	14	4	0.82	0.69	-0.13	0	0	0	0	0	0	0	0
5/1/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	-0.79	-0.79	0	0	0	0	0	0
5/1/2024 10:00	12601	MACA_T1	1	2	1	1	0.85	-0.15	0	0	0	0	0	0	0	0
5/1/2024 10:00	58101	NEKI_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/1/2024 10:00	17002	RIRO_T2	8	17	9	0.64	0.49	-0.15	0.74	0.69	0	0	0	0	0	0
5/1/2024 10:00	24101	EHAZ_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
5/1/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.93	0.99	2	2	0	1200	1200	0
5/1/2024 10:00	13704	SCHN_T2	1	1	0	0.6	0.4	-0.2	-0.26	-0.13	0	0	0	0	0	0
5/1/2024 10:00	13503	MCMI_T2	7	6	-1	0.47	0.53	0.06	-0.01	-0.01	0	0	0	0	0	0
5/1/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-0.16	-0.21	1	1	0	1200	1200	0
5/1/2024 10:00	61302	EARL_T1	0	0	0	0	0	0	1.28	1.21	2	2	0	1800	1800	0
5/1/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
5/1/2024 10:00	54602	SUMM_T2	0	0	0	0	0	0	-2.25	-2.3	1	1	0	600	600	0
5/1/2024 10:00	44502	HAMI_T2	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
5/1/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	-0.55	-0.54	1	1	0	600	600	0
5/1/2024 10:00	63803	HEMP_T1	5	6	1	0.24	0.4	0.16	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/1/2024 10:00	12501	MITR_T2	1	1	0	1.1	4.2	3.1	0	0	0	0	0	0	0	0
5/1/2024 10:00	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 10:00	58803	COCO_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
5/1/2024 10:00	43101	SMIL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/1/2024 10:00	67002	STHI_T2	5	11	6	0.38	0.29	-0.09	0.96	0.99	0	0	0	0	0	0
5/1/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.12	-0.06	0	0	0	0	0	0
5/1/2024 10:00	52004	LING_T2	0	1	1	0	0.3	0.3	0.41	0.4	0	0	0	0	0	0
5/1/2024 10:00	40602	PIGR_T1	2	1	-1	0.15	0.1	-0.05	0.1	0.11	1	1	0	600	600	0
5/1/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	-0.5	-0.57	1	1	0	600	600	0
5/1/2024 10:00	44505	HAMI_T2	2	2	0	0.2	0.55	0.35	0.37	0.42	0	0	0	0	0	0
5/1/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	-0.07	-0.16	0	0	0	0	0	0
5/1/2024 10:00	42903	MIDD_T2	0	0	0	0	0	0	0.35	0.62	1	1	0	1200	1200	0
5/1/2024 10:00	54502	ENOL_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
5/1/2024 10:00	11102	EGYP_T1	1	3	2	0.2	1.9	1.7	0	0	0	0	0	0	0	0
5/1/2024 10:00	24104	EHAZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/1/2024 10:00	58102	NEKI_T1	2	2	0	0.5	0.5	0	-0.64	-0.63	1	1	0	1200	1200	0
5/1/2024 10:00	39601	LNFD_T1	1	1	0	1.2	0.6	-0.6	0	0	0	0	0	0	0	0
5/1/2024 10:00	46504	LOHA_T1	26	39	13	0.25	0.31	0.06	0	0	0	0	0	0	0	0
5/1/2024 10:00	16103	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 10:00	40101	HUNT_T2	0	2	2	0	0.1	0.1	-0.42	-0.44	0	0	0	0	0	0
5/1/2024 10:00	45501	DERR_T2	1	3	2	0.4	0.33	-0.07	0.59	0.62	2	2	0	1800	1800	0
5/1/2024 10:00	25603	ARRO_T1	0	1	1	0	0.4	0.4	-0.18	-0.17	0	0	0	0	0	0
5/1/2024 10:00	62607	ENGL_T1	1	1	0	0	0	0	-0.97	-0.95	1	1	0	300	300	0
5/1/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.9	0.86	0	0	0	0	0	0
5/1/2024 10:00	40901	JESH_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/1/2024 10:00	56802	BENV_T2	115	84	-31	0.21	0.23	0.02	-9.38	-8.97	0	0	0	0	0	0
5/1/2024 10:00	43105	SMIL_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
5/1/2024 10:00	16901	MECK_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
5/1/2024 10:00	12604	MACA_T1	0	2	2	0	0.2	0.2	0.4	0.4	0	0	0	0	0	0
5/1/2024 10:00	16101	BING_T2	0	1	1	0	0.1	0.1	0.39	0.41	0	0	0	0	0	0
5/1/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	-1.08	-0.31	0	0	0	0	0	0
5/1/2024 10:00	56501	ROCK_T2	2	2	0	0.5	0.6	0.1	-0.01	-0.01	0	0	0	0	0	0
5/1/2024 10:00	42902	MIDD_T2	7	4	-3	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
5/1/2024 10:00	56803	BENV_T1	2	3	1	0.35	0.53	0.18	0.02	-0.01	0	0	0	0	0	0
5/1/2024 10:00	59101	WALK_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/1/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	1.1	1.15	0	0	0	0	0	0
5/1/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.94	0.94	0	0	0	0	0	0
5/1/2024 10:00	50701	SMEC_T1	0	0	0	0	0	0	0.57	0.54	0	0	0	0	0	0
5/1/2024 10:00	24702	FLND_T2	2	2	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
5/1/2024 10:00	47002	HUGH_T2	0	1	1	0	0	0	-0.53	-0.53	0	0	0	0	0	0
5/1/2024 10:00	56801	BENV_T1	22	23	1	0.85	0.74	-0.11	0	0	0	0	0	0	0	0
5/1/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
5/1/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	-0.16	-0.12	0	0	0	0	0	0
5/1/2024 10:00	12802	MICK_T1	0	0	0	0	0	0	-0.42	-0.45	0	0	0	0	0	0
5/1/2024 10:00	64801	MONE_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
5/1/2024 10:00	51002	NHAR_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 10:00	17101	WTRE_T2	316	439	123	0.23	0.24	0.01	0	0	0	0	0	0	0	0
5/1/2024 10:00	14204	EALL_T2	0	5	5	0	0.34	0.34	0.44	0.44	0	0	0	0	0	0
5/1/2024 10:00	53903	HALI_T2	2	5	3	1.1	0.64	-0.46	0	0	0	0	0	0	0	0
5/1/2024 10:00	53901	HALI_T2	1	1	0	0.5	0.6	0.1	-0.92	-0.91	0	0	0	0	0	0
5/1/2024 10:00	53501	EVIL_T2	3	4	1	0.5	0.68	0.18	-0.14	-0.27	6	6	0	3600	3600	0
5/1/2024 10:00	12807	MICK_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/1/2024 10:00	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.07	0.13	1	1	0	600	600	0
5/1/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
5/1/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.34	0.37	0	0	0	0	0	0
5/1/2024 10:00	45602	WOOL_T1	1	1	0	0.4	0.3	-0.1	0.52	0.53	0	0	0	0	0	0
5/1/2024 10:00	56504	ROCK_T2	1	3	2	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
5/1/2024 10:00	67703	WERN_T2	0	1	1	0	0.2	0.2	-0.67	-0.67	1	1	0	900	900	0
5/1/2024 10:00	64802	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.65	1.64	0	0	0	0	0	0
5/1/2024 10:00	46501	LOHA_T1	0	0	0	0	0	0	0.1	0.08	1	1	0	1200	1200	0
5/1/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/1/2024 10:00	43201	MVIL_T2	0	0	0	0	0	0	-0.28	-0.26	0	0	0	0	0	0
5/1/2024 10:00	43103	SMIL_T2	5	5	0	0.28	0.44	0.16	0	0	0	0	0	0	0	0
5/1/2024 10:00	67502	WEWI_T2	2	3	1	0.6	1.1	0.5	0	0	0	0	0	0	0	0
5/1/2024 10:00	24105	EHAZ_T1	4	4	0	5.63	5.8	0.17	-1.85	-1.87	1	1	0	1200	1200	0
5/1/2024 10:00	14603	SWHI_T1	3	9	6	0.73	0.53	-0.2	0	0	0	0	0	0	0	0
5/1/2024 10:00	29402	BELT_T1	3	2	-1	2.93	4.35	1.42	0	0	0	0	0	0	0	0
5/1/2024 10:00	42002	MNVL_T2	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0	0
5/1/2024 10:00	10801	CHHI_T1	7	7	0	0.61	0.71	0.1	-0.46	-0.62	1	1	0	900	900	0
5/1/2024 10:00	41902	REED_T1	0	0	0	0	0	0	1.2	1.12	0	0	0	0	0	0
5/1/2024 10:00	53902	HALI_T2	2	3	1	2.7	2.2	-0.5	0	0	0	0	0	0	0	0
5/1/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-0.97	-0.94	0	0	0	0	0	0
5/1/2024 10:00	66302	MCGO_T2	2	1	-1	0.35	1	0.65	-1.63	-1.58	1	1	0	600	600	0
5/1/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.52	-0.87	2	2	0	1200	1200	0
5/1/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 10:00	64201	KINZ_T1	0	0	0	0	0	0	-0.01	0.01	3	3	0	1500	1500	0
5/1/2024 10:03	13103	NHAM_T2	0	0	0	0	0	0	-1.65	-1.65	1	1	0	600	600	0
5/1/2024 10:07	45902	AUBU_T1	0	0	0	0	0	0	-0.5	-0.57	1	1	0	600	600	0
5/1/2024 10:07	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/1/2024 10:07	56802	BENV_T2	115	84	-31	0.21	0.23	0.02	-2.68	-2.56	0	0	0	0	0	0
5/1/2024 10:07	64902	MILL_T2	0	0	0	0	0	0	-0.42	-0.41	1	1	0	900	900	0
5/1/2024 10:07	17001	RIRO_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
5/1/2024 10:07	63401	HONY_T1	0	0	0	0	0	0	0.96	0.98	0	0	0	0	0	0
5/1/2024 10:07	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 10:07	60701	BREC_T1	0	0	0	0	0	0	-0.28	-0.31	2	2	0	1200	1200	0
5/1/2024 10:07	61302	EARL_T1	0	0	0	0	0	0	1.28	1.21	2	2	0	1800	1800	0
5/1/2024 10:07	11102	EGYP_T1	1	3	2	0.2	1.9	1.7	0	0	0	0	0	0	0	0
5/1/2024 10:07	59201	THOM_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/1/2024 10:08	12803	MICK_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/1/2024 10:08	67503	WEWI_T2	0	0	0	0	0	0	0.61	0.66	0	0	0	0	0	0
5/1/2024 10:08	15704	TANN_T1	2	5	3	0.4	0.2	-0.2	-1.15	-1.11	0	0	0	0	0	0
5/1/2024 10:08	15001	BLMO_T1	6	5	-1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/1/2024 10:08	67502	WEWI_T2	2	3	1	0.6	1.1	0.5	0	0	0	0	0	0	0	0
5/1/2024 10:08	40901	JESH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/1/2024 10:08	12807	MICK_T1	1	1	0	0.2	0.2	0	-0.71	-0.74	0	0	0	0	0	0
5/1/2024 10:08	10801	CHHI_T1	7	7	0	0.61	0.71	0.1	-0.46	-0.62	1	1	0	900	900	0
5/1/2024 10:08	15701	TANN_T1	3	7	4	1.8	1.04	-0.76	0	0	0	0	0	0	0	0
5/1/2024 10:08	67703	WERN_T2	0	1	1	0	0.2	0.2	-0.67	-0.03	1	1	0	900	900	0
5/1/2024 10:08	60801	BUCK_T1	0	1	1	0	0.1	0.1	0.14	-0.38	0	0	0	0	0	0
5/1/2024 10:08	40902	JESH_T1	0	0	0	0	0	0	-0.52	-0.87	2	2	0	1200	1200	0
5/1/2024 10:08	45602	WOOL_T1	1	1	0	0.4	0.3	-0.1	0.52	0.53	0	0	0	0	0	0
5/1/2024 10:08	60803	BUCK_T1	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
5/1/2024 10:09	67703	WERN_T2	0	1	1	0	0.2	0.2	-0.67	-0.03	1	1	0	900	900	0
5/1/2024 10:09	15001	BLMO_T1	6	5	-1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/1/2024 10:10	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/1/2024 10:10	67703	WERN_T2	0	1	1	0	0.2	0.2	-0.67	-0.03	1	1	0	900	900	0
5/1/2024 10:10	67803	WLAN_T1	0	1	1	0	0.1	0.1	-0.77	-0.78	0	0	0	0	0	0
5/1/2024 10:10	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/1/2024 10:11	46003	BERW_T2	1	19	18	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
5/1/2024 10:11	41802	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 10:11	46002	BERW_T2	1	1	0	0.5	0.8	0.3	-1.04	-1.08	1	1	0	900	900	0
5/1/2024 10:11	41801	GOCI_T2	121	166	45	0.26	0.35	0.09	0	0	0	0	0	0	0	0
5/1/2024 10:12	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
5/1/2024 10:13	29402	BELT_T1	3	2	-1	2.93	4.35	1.42	0	0	0	0	0	0	0	0
5/1/2024 10:13	29401	BELT_T1	3	3	0	0.13	0.17	0.04	0	0	1	1	0	900	900	0
5/1/2024 10:14	25404	LAHA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/1/2024 10:14	15001	BLMO_T1	6	5	-1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/1/2024 10:14	25402	LAHA_T2	1	2	1	0.6	0.5	-0.1	-0.34	-0.33	0	0	0	0	0	0
5/1/2024 10:14	23901	EFMO_T2	3	2	-1	0.17	0.25	0.08	0	0	0	0	0	0	0	0
5/1/2024 10:14	23902	EFMO_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
5/1/2024 10:15	50201	HARR_T3	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 10:15	50103	HARR_T3	2	2	0	0.2	0.15	-0.05	-0.5	-0.52	1	1	0	1200	1200	0
5/1/2024 10:15	50105	HARR_T3	6	6	0	5.8	5.85	0.05	0	0	0	0	0	0	0	0
5/1/2024 10:16	60504	NMAN_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/1/2024 10:16	60501	NMAN_T2	3	3	0	4.5	4.77	0.27	0	0	0	0	0	0	0	0
5/1/2024 10:16	60502	NMAN_T2	0	0	0	0	0	0	-0.06	0.02	0	0	0	0	0	0
5/1/2024 10:16	65002	NEFF_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
5/1/2024 10:16	13901	SEID_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
5/1/2024 10:16	65001	NEFF_T2	0	0	0	0	0	0	-0.21	-0.23	1	1	0	1200	1200	0
5/1/2024 10:17	55002	NEWP_T1	10	10	0	0.84	0.81	-0.03	-0.2	-0.19	0	0	0	0	0	0
5/1/2024 10:17	55001	NEWP_T1	5	2	-3	0.48	0.65	0.17	0	0	0	0	0	0	0	0
5/1/2024 10:19	55001	NEWP_T1	5	2	-3	0.48	0.65	0.17	0	0	0	0	0	0	0	0
5/1/2024 10:19	55002	NEWP_T1	10	10	0	0.84	0.81	-0.03	-0.4	-0.38	0	0	0	0	0	0
5/1/2024 10:20	13704	SCHN_T2	1	1	0	0.4	0.5	0.1	-0.13	-0.19	0	0	0	0	0	0
5/1/2024 10:21	55002	NEWP_T1	10	10	0	0.84	0.81	-0.03	-0.2	-0.19	0	0	0	0	0	0
5/1/2024 10:21	58402	MORO_T1	0	0	0	0	0	0	-0.96	-0.96	3	3	0	2400	2400	0
5/1/2024 10:21	55001	NEWP_T1	5	2	-3	0.48	0.65	0.17	0	0	0	0	0	0	0	0
5/1/2024 10:22	16301	ALPA_T1	1	2	1	0.6	0.6	0	-0.14	-0.08	0	0	0	0	0	0
5/1/2024 10:22	67502	WEWI_T2	2	3	1	0.85	1.17	0.32	-0.04	-0.98	0	1	1	0	900	900
5/1/2024 10:23	67803	WLAN_T1	0	1	1	0	0.1	0.1	-0.78	-0.75	0	0	0	0	0	0
5/1/2024 10:24	10805	CHHI_T2	1	2	1	8.6	8.5	-0.1	-0.76	-0.67	1	1	0	600	600	0
5/1/2024 10:25	44301	BEAV_T2	1	1	0	0.6	1	0.4	0.75	0.81	2	2	0	1500	1500	0
5/1/2024 10:26	51304	WIND_T2	0	0	0	0	0	0	0.04	0.09	0	0	0	0	0	0
5/1/2024 10:27	15001	BLMO_T1	5	5	0	0.64	0.7	0.06	0	0	0	0	0	0	0	0
5/1/2024 10:27	21206	ECAR_T2	1	2	1	7.2	7.6	0.4	3.04	3.08	0	0	0	0	0	0
5/1/2024 10:27	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 10:28	61801	EELI_T2	1	1	0	0.2	0.5	0.3	-0.61	-0.56	1	1	0	600	600	0
5/1/2024 10:29	28403	HART_T2	0	0	0	0	0	0	-0.84	-0.86	1	1	0	900	900	0
5/1/2024 10:30	12602	MACA_T1	2	1	-1	0.45	0.5	0.05	-1.1	-1.08	0	0	0	0	0	0
5/1/2024 10:30	12601	MACA_T1	2	2	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
5/1/2024 10:30	63401	HONY_T1	0	0	0	0	0	0	0.38	0.29	1	1	0	600	600	0
5/1/2024 10:30	12605	MACA_T1	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
5/1/2024 10:30	12604	MACA_T1	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
5/1/2024 10:31	63403	HONY_T2	0	0	0	0	0	0	0.53	0.51	1	1	0	600	600	0
5/1/2024 10:31	63402	HONY_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/1/2024 10:32	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 10:32	63602	LETO_T1	1	1	0	0.7	0.9	0.2	0	-0.01	0	0	0	0	0	0
5/1/2024 10:32	14204	EALL_T2	5	2	-3	0.34	0.3	-0.04	-0.59	-0.43	0	0	0	0	0	0
5/1/2024 10:32	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 10:33	51004	NHAR_T1	12	2	-10	0.73	3.25	2.52	-0.27	-0.27	0	0	0	0	0	0
5/1/2024 10:33	64904	MILL_T1	1	0	-1	0.2	0	-0.2	-0.13	-0.15	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/1/2024 10:34	45702	LIND_T2	1	6	5	0.7	0.8	0.1	-0.4	-0.38	0	0	0	0	0	0
5/1/2024 10:34	14204	EALL_T2	5	2	-3	0.34	0.3	-0.04	0	0	0	0	0	0	0	0
5/1/2024 10:34	14205	EALL_T2	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
5/1/2024 10:35	16403	MOPO_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
5/1/2024 10:36	65802	RTWN_T2	1	1	0	0.7	0.9	0.2	0.08	0.06	0	0	0	0	0	0
5/1/2024 10:37	20401	ASHF_T2	2	1	-1	0.2	0	-0.2	-0.06	-0.15	0	0	0	0	0	0
5/1/2024 10:37	20403	ASHF_T2	4	3	-1	0.33	0.17	-0.16	0	0	0	0	0	0	0	0
5/1/2024 10:38	67702	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 10:38	67703	WERN_T2	0	2	2	0	0.25	0.25	-0.61	-0.62	1	1	0	900	900	0
5/1/2024 10:38	11601	CEAL_T1	1	1	0	0.9	0.1	-0.8	0	0	1	1	0	1200	1200	0
5/1/2024 10:39	67703	WERN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/1/2024 10:39	20403	ASHF_T2	4	3	-1	0.33	0.17	-0.16	1.41	1.27	0	0	0	0	0	0
5/1/2024 10:39	44601	SALE_T2	0	0	0	0	0	0	0.96	0.9	2	2	0	900	900	0
5/1/2024 10:39	67702	WERN_T2	0	1	1	0	0.1	0.1	-0.01	0.03	0	0	0	0	0	0
5/1/2024 10:39	20401	ASHF_T2	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/1/2024 10:40	61103	BERK_T5	0	9	9	0	0.28	0.28	0	0	0	0	0	0	0	0
5/1/2024 10:40	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.23	-0.19	0	0	0	0	0	0
5/1/2024 10:40	61101	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 10:40	61102	BERK_T5	0	4	4	0	0.18	0.18	0.15	0.23	1	1	0	300	300	0
5/1/2024 10:40	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 10:40	53501	EVIL_T2	4	1	-3	0.65	0.9	0.25	0	0	0	0	0	0	0	0
5/1/2024 10:40	53502	EVIL_T2	0	0	0	0	0	0	0.23	0.22	2	2	0	1200	1200	0
5/1/2024 10:41	61502	EPET_T1	0	0	0	0	0	0	-1.66	-1.85	0	0	0	0	0	0
5/1/2024 10:41	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
5/1/2024 10:42	58402	MORO_T1	0	1	1	0	0	0	-0.97	-0.97	3	3	0	2400	2400	0
5/1/2024 10:43	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
5/1/2024 10:44	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.23	-0.19	0	0	0	0	0	0
5/1/2024 10:44	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 10:44	61803	EELI_T2	0	0	0	0	0	0	1.62	1.37	0	0	0	0	0	0
5/1/2024 10:44	61801	EELI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/1/2024 10:46	63801	HEMP_T1	2	5	3	0.2	0.32	0.12	0	0	0	0	0	0	0	0
5/1/2024 10:46	63804	HEMP_T1	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
5/1/2024 10:46	63803	HEMP_T1	3	9	6	0.4	0.46	0.06	0.26	0.24	0	0	0	0	0	0
5/1/2024 10:47	45702	LIND_T2	3	6	3	0.67	0.83	0.16	-0.38	-0.36	0	0	0	0	0	0
5/1/2024 10:50	14802	TREI_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/1/2024 10:50	14801	TREI_T2	3	3	0	0.47	0.2	-0.27	0.41	0.39	0	0	0	0	0	0
5/1/2024 10:52	44301	BEAV_T2	1	1	0	1.4	0	-1.4	0.81	0.89	2	2	0	1500	1500	0
5/1/2024 10:53	61101	BERK_T5	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/1/2024 10:53	61103	BERK_T5	9	6	-3	0.18	0.35	0.17	0.22	0.23	0	0	0	0	0	0
5/1/2024 10:53	61102	BERK_T5	2	4	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/1/2024 10:55	14801	TREI_T2	3	3	0	0.47	0.2	-0.27	0	0	0	0	0	0	0	0
5/1/2024 10:55	14802	TREI_T2	0	2	2	0	0.3	0.3	0.44	0.44	0	0	0	0	0	0
5/1/2024 10:56	67603	WARW_T1	0	1	1	0	0.2	0.2	0.08	0.12	0	0	0	0	0	0
5/1/2024 10:56	67605	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/1/2024 10:57	61102	BERK_T5	2	4	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/1/2024 10:57	61101	BERK_T5	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/1/2024 10:57	61103	BERK_T5	9	6	-3	0.18	0.35	0.17	0.22	0.23	0	0	0	0	0	0
5/1/2024 10:58	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 10:58	67605	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/1/2024 10:58	67603	WARW_T1	0	1	1	0	0.2	0.2	0.15	0.23	0	0	0	0	0	0
5/1/2024 10:58	51101	CARL_T1	0	0	0	0	0	0	-0.78	-0.68	1	1	0	600	600	0
5/1/2024 10:58	51102	CARL_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/1/2024 10:58	61303	EARL_T1	0	0	0	0	0	0	0.52	0.43	0	0	0	0	0	0
5/1/2024 11:00	60801	BUCK_T1	0	0	0	0	0	0	-0.41	-0.42	1	1	0	600	600	0
5/1/2024 11:00	24105	EHAZ_T1	4	4	0	5.88	5.55	-0.33	0	0	0	0	0	0	0	0
5/1/2024 11:00	60803	BUCK_T1	8	10	2	0.19	0.24	0.05	0	0	0	0	0	0	0	0
5/1/2024 11:00	24101	EHAZ_T1	1	3	2	0.5	1	0.5	0	0	0	0	0	0	0	0
5/1/2024 11:00	24104	EHAZ_T1	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
5/1/2024 11:00	24102	EHAZ_T1	1	1	0	0.1	0.5	0.4	0.44	0.48	0	0	0	0	0	0
5/1/2024 11:01	64701	LITI_T1	0	0	0	0	0	0	0.13	0.78	0	0	0	0	0	0
5/1/2024 11:03	65501	MOJO_T1	0	0	0	0	0	0	-0.8	-0.77	1	1	0	900	900	0
5/1/2024 11:03	64904	MILL_T1	0	1	1	0	0.3	0.3	-0.17	-0.13	0	0	0	0	0	0
5/1/2024 11:03	14201	EALL_T1	0	0	0	0	0	0	0.86	0.88	0	0	0	0	0	0
5/1/2024 11:03	14203	EALL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 11:06	66703	STRA_T1	0	0	0	0	0	0	0.2	0.24	0	0	0	0	0	0
5/1/2024 11:06	66701	STRA_T1	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
5/1/2024 11:07	66703	STRA_T1	0	0	0	0	0	0	0.2	0.24	0	0	0	0	0	0
5/1/2024 11:07	66701	STRA_T1	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
5/1/2024 11:08	26001	WDAM_T1	1	0	-1	0.3	0	-0.3	-0.43	-0.41	0	0	0	0	0	0
5/1/2024 11:09	10801	CHHI_T1	3	2	-1	0.63	0.55	-0.08	-0.48	-0.45	1	1	0	900	900	0
5/1/2024 11:09	60101	COCA_T1	0	1	1	0	0.1	0.1	0.49	0.47	0	0	0	0	0	0
5/1/2024 11:09	58402	MORO_T1	0	0	0	0	0	0	-0.93	-0.87	3	3	0	2400	2400	0
5/1/2024 11:09	58401	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 11:09	10805	CHHI_T2	1	2	1	8.4	8.7	0.3	-0.61	-0.53	1	1	0	600	600	0
5/1/2024 11:10	20403	ASHF_T2	2	12	10	0.2	0.5	0.3	1.44	1.39	0	0	0	0	0	0
5/1/2024 11:10	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 11:11	60803	BUCK_T1	8	10	2	0.19	0.24	0.05	0	0	0	0	0	0	0	0
5/1/2024 11:11	60801	BUCK_T1	0	0	0	0	0	0	-0.42	-0.43	1	1	0	600	600	0
5/1/2024 11:11	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
5/1/2024 11:11	10805	CHHI_T2	1	2	1	8.4	8.7	0.3	-0.61	-0.53	1	1	0	600	600	0
5/1/2024 11:12	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 11:13	60101	COCA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 11:13	60102	COCA_T1	0	0	0	0	0	0	0.96	0.84	2	2	0	1200	1200	0
5/1/2024 11:14	54203	PENN_T1	18	20	2	0.53	0.79	0.26	0.5	0.44	0	0	0	0	0	0
5/1/2024 11:14	54201	PENN_T1	8	12	4	0.9	0.87	-0.03	0	0	0	0	0	0	0	0
5/1/2024 11:15	64204	KINZ_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
5/1/2024 11:15	64201	KINZ_T1	0	0	0	0	0	0	-0.47	-0.58	4	4	0	2100	2100	0
5/1/2024 11:15	63401	HONY_T1	0	0	0	0	0	0	0.35	0.35	1	1	0	600	600	0
5/1/2024 11:16	46803	HEPB_T2	5	3	-2	0.46	0.57	0.11	0.51	0.53	0	0	0	0	0	0
5/1/2024 11:16	29401	BELT_T1	0	3	3	0	0.57	0.57	0	0	1	1	0	900	900	0
5/1/2024 11:16	46801	HEPB_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
5/1/2024 11:16	29402	BELT_T1	2	7	5	4.35	1.53	-2.82	0	0	0	0	0	0	0	0
5/1/2024 11:16	60801	BUCK_T1	0	0	0	0	0	0	-0.42	-0.43	1	1	0	600	600	0
5/1/2024 11:16	60803	BUCK_T1	10	8	-2	0.24	0.18	-0.06	0	0	0	0	0	0	0	0
5/1/2024 11:17	29401	BELT_T1	0	3	3	0	0.57	0.57	0	0	1	1	0	900	900	0
5/1/2024 11:17	46803	HEPB_T2	5	3	-2	0.46	0.57	0.11	0	0	0	0	0	0	0	0
5/1/2024 11:17	46801	HEPB_T2	2	2	0	1	1	0	0.75	0.78	0	0	0	0	0	0
5/1/2024 11:17	29402	BELT_T1	2	7	5	4.35	1.53	-2.82	0	0	0	0	0	0	0	0
5/1/2024 11:18	54201	PENN_T1	9	11	2	1.04	0.75	-0.29	-0.69	-0.74	0	0	0	0	0	0
5/1/2024 11:18	54203	PENN_T1	20	20	0	0.78	0.54	-0.24	0	0	0	0	0	0	0	0
5/1/2024 11:20	63401	HONY_T1	0	0	0	0	0	0	0.35	0.35	1	1	0	600	600	0
5/1/2024 11:20	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 11:20	42201	SHEN_T2	0	2	2	0	0.55	0.55	0.08	0.07	1	1	0	600	600	0
5/1/2024 11:20	66504	SMAN_T2	0	0	0	0	0	0	-0.1	-2.67	0	2	2	0	2400	2400
5/1/2024 11:20	42903	MIDD_T2	0	2	2	0	0.1	0.1	0.18	0.32	1	1	0	1200	1200	0
5/1/2024 11:20	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 11:20	42902	MIDD_T2	14	17	3	0.42	0.56	0.14	0	0	0	0	0	0	0	0
5/1/2024 11:21	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 11:21	59101	WALK_T2	1	3	2	0.2	0.53	0.33	1.74	1.5	1	1	0	600	600	0
5/1/2024 11:22	59101	WALK_T2	1	3	2	0.2	0.53	0.33	1.74	1.5	1	1	0	600	600	0
5/1/2024 11:22	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 11:22	45902	AUBU_T1	1	1	0	0.2	0.6	0.4	-0.43	-0.4	1	1	0	600	600	0
5/1/2024 11:23	64902	MILL_T2	0	0	0	0	0	0	-0.34	-0.39	1	1	0	900	900	0
5/1/2024 11:24	60803	BUCK_T1	10	8	-2	0.24	0.18	-0.06	-1.08	-1.09	1	1	0	600	600	0
5/1/2024 11:26	60803	BUCK_T1	10	8	-2	0.24	0.18	-0.06	-1.08	-1.09	1	1	0	600	600	0
5/1/2024 11:26	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 11:26	60901	DONG_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 11:26	65004	NEFF_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
5/1/2024 11:26	47202	FAXO_T2	0	0	0	0	0	0	-2.14	-2.12	0	0	0	0	0	0
5/1/2024 11:26	65002	NEFF_T2	1	1	0	1.6	0.4	-1.2	0	0	0	0	0	0	0	0
5/1/2024 11:26	47203	FAXO_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/1/2024 11:26	60902	DONG_T2	0	0	0	0	0	0	1.07	1.03	0	0	0	0	0	0
5/1/2024 11:27	46004	BERW_T2	0	0	0	0	0	0	0.25	0.3	0	0	0	0	0	0
5/1/2024 11:27	10805	CHHI_T2	1	2	1	8.7	4.55	-4.15	-0.53	-0.5	1	1	0	600	600	0
5/1/2024 11:27	46002	BERW_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/1/2024 11:27	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 11:28	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 11:29	64902	MILL_T2	0	0	0	0	0	0	-0.34	-0.39	1	1	0	900	900	0
5/1/2024 11:29	67605	WARW_T1	0	32	32	0	0.37	0.37	-0.87	-0.86	0	0	0	0	0	0
5/1/2024 11:30	63305	GREE_T1	0	0	0	0	0	0	-1.67	-1.69	1	1	0	900	900	0
5/1/2024 11:31	64201	KINZ_T1	0	0	0	0	0	0	-0.58	-0.26	4	4	0	2100	2100	0
5/1/2024 11:31	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 11:31	64204	KINZ_T1	1	2	1	1.1	0.65	-0.45	0	0	0	0	0	0	0	0
5/1/2024 11:32	45702	LIND_T2	4	2	-2	0.78	0.7	-0.08	-0.48	-0.6	0	0	0	0	0	0
5/1/2024 11:32	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
5/1/2024 11:32	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 11:32	64902	MILL_T2	0	0	0	0	0	0	-0.34	-0.39	1	1	0	900	900	0
5/1/2024 11:32	64201	KINZ_T1	0	0	0	0	0	0	-0.58	-0.26	4	4	0	2100	2100	0
5/1/2024 11:32	64204	KINZ_T1	1	2	1	1.1	0.65	-0.45	0	0	0	0	0	0	0	0
5/1/2024 11:32	28805	LAKE_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
5/1/2024 11:34	67603	WARW_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/1/2024 11:34	67605	WARW_T1	31	55	24	0.32	0.31	-0.01	-0.87	-0.86	0	0	0	0	0	0
5/1/2024 11:35	64904	MILL_T1	0	1	1	0	0.2	0.2	-0.13	-0.16	0	0	0	0	0	0
5/1/2024 11:36	14102	TRUM_T2	0	0	0	0	0	0	0	-0.06	2	2	0	1500	1500	0
5/1/2024 11:36	14103	TRUM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/1/2024 11:38	45902	AUBU_T1	0	1	1	0	0.6	0.6	-0.45	-0.36	1	1	0	600	600	0
5/1/2024 11:38	67803	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 11:38	67805	WLAN_T1	0	0	0	0	0	0	-0.49	-0.46	0	0	0	0	0	0
5/1/2024 11:39	45902	AUBU_T1	0	1	1	0	0.6	0.6	-0.45	-0.36	1	1	0	600	600	0
5/1/2024 11:40	46206	DANV_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/1/2024 11:40	60102	COCA_T1	0	0	0	0	0	0	0.35	0.22	2	2	0	1200	1200	0
5/1/2024 11:40	46203	DANV_T2	91	179	88	0.35	0.84	0.49	-0.89	-0.92	0	0	0	0	0	0
5/1/2024 11:40	60101	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 11:41	46203	DANV_T2	91	179	88	0.35	0.84	0.49	-1.78	-1.83	0	0	0	0	0	0
5/1/2024 11:41	45902	AUBU_T1	0	1	1	0	0.6	0.6	-0.91	-0.72	2	2	0	1200	1200	0
5/1/2024 11:41	46206	DANV_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/1/2024 11:42	46203	DANV_T2	91	179	88	0.35	0.84	0.49	-0.89	-0.92	0	0	0	0	0	0
5/1/2024 11:42	46206	DANV_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/1/2024 11:43	67605	WARW_T1	31	55	24	0.32	0.31	-0.01	-0.86	-0.84	0	0	0	0	0	0
5/1/2024 11:43	67603	WARW_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/1/2024 11:44	67605	WARW_T1	31	55	24	0.32	0.31	-0.01	-0.86	-0.84	0	0	0	0	0	0
5/1/2024 11:44	67603	WARW_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/1/2024 11:46	45802	HEGI_T2	1	2	1	0.5	0.2	-0.3	0.65	0.51	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/1/2024 11:46	45902	AUBU_T1	1	1	0	0.6	0.7	0.1	-0.91	-0.72	2	2	0	1200	1200	0
5/1/2024 11:49	56504	ROCK_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/1/2024 11:49	56501	ROCK_T2	0	1	1	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
5/1/2024 11:49	46801	HEPB_T2	2	2	0	0.95	0.9	-0.05	0.82	0.8	0	0	0	0	0	0
5/1/2024 11:49	67603	WARW_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
5/1/2024 11:49	67605	WARW_T1	11	58	47	0.43	0.32	-0.11	-0.86	-0.84	0	0	0	0	0	0
5/1/2024 11:49	46803	HEPB_T2	3	6	3	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
5/1/2024 11:51	57006	WHHI_T2	1	2	1	0.2	0.55	0.35	1.16	1.24	0	0	0	0	0	0
5/1/2024 11:51	42802	SELI_T1	0	0	0	0	0	0	-0.46	-0.45	1	1	0	900	900	0
5/1/2024 11:51	57003	WHHI_T2	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
5/1/2024 11:52	43108	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/1/2024 11:52	45902	AUBU_T1	1	1	0	0.6	0.7	0.1	-0.45	-0.36	1	1	0	600	600	0
5/1/2024 11:52	27605	PIRI_T2	0	0	0	0	0	0	0.15	0.04	1	1	0	900	900	0
5/1/2024 11:52	43103	SMIL_T2	5	7	2	0.34	0.46	0.12	-0.74	-0.73	0	0	0	0	0	0
5/1/2024 11:52	16505	STRO_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
5/1/2024 11:52	43104	SMIL_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/1/2024 11:52	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/1/2024 11:52	43105	SMIL_T2	1	2	1	0.3	0.55	0.25	0	0	0	0	0	0	0	0
5/1/2024 11:53	67803	WLAN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/1/2024 11:53	67804	WLAN_T1	0	2	2	0	0.1	0.1	-0.89	-0.85	0	0	0	0	0	0
5/1/2024 11:54	57006	WHHI_T2	1	2	1	0.2	0.55	0.35	1.24	1.38	0	0	0	0	0	0
5/1/2024 11:54	57002	WHHI_T2	0	0	0	0	0	0	-1.04	-1.06	1	1	0	1200	1200	0
5/1/2024 11:54	57003	WHHI_T2	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
5/1/2024 11:54	42802	SELI_T1	0	0	0	0	0	0	-0.45	-0.43	1	1	0	900	900	0
5/1/2024 11:55	56501	ROCK_T2	0	1	1	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
5/1/2024 11:55	46002	BERW_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/1/2024 11:55	51102	CARL_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
5/1/2024 11:55	51107	CARL_T1	0	0	0	0	0	0	0.6	0.64	0	0	0	0	0	0
5/1/2024 11:55	56504	ROCK_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/1/2024 11:55	46004	BERW_T2	0	0	0	0	0	0	0.37	0.53	0	0	0	0	0	0
5/1/2024 11:55	45902	AUBU_T1	1	1	0	0.6	0.7	0.1	-0.36	-0.42	1	1	0	600	600	0
5/1/2024 11:56	45902	AUBU_T1	1	1	0	0.6	0.7	0.1	-0.36	-0.42	1	1	0	600	600	0
5/1/2024 11:57	45902	AUBU_T1	1	1	0	0.6	0.7	0.1	-0.36	-0.42	1	1	0	600	600	0
5/1/2024 11:57	60901	DONG_T2	2	6	4	0.1	0.28	0.18	0	0	0	0	0	0	0	0
5/1/2024 11:57	60904	DONG_T2	0	3	3	0	0.55	0.55	0	0	0	0	0	0	0	0
5/1/2024 11:57	60902	DONG_T2	0	0	0	0	0	0	1.09	1.09	0	0	0	0	0	0
5/1/2024 11:59	67603	WARW_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
5/1/2024 11:59	67605	WARW_T1	11	58	47	0.43	0.32	-0.11	-0.84	-0.79	0	0	0	0	0	0
5/1/2024 12:01	16402	MOPO_T1	5	6	1	0.62	0.85	0.23	0.05	0.23	0	0	0	0	0	0
5/1/2024 12:01	45902	AUBU_T1	1	1	0	0.1	0.7	0.6	-0.36	-0.42	1	1	0	600	600	0
5/1/2024 12:01	44502	HAMI_T2	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
5/1/2024 12:01	54501	ENOL_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
5/1/2024 12:01	54504	ENOL_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
5/1/2024 12:01	44504	HAMI_T2	0	0	0	0	0	0	-0.79	-0.71	0	0	0	0	0	0
5/1/2024 12:01	44505	HAMI_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
5/1/2024 12:01	54505	ENOL_T2	2	1	-1	0.35	0.4	0.05	-1.19	-1.2	1	1	0	600	600	0
5/1/2024 12:01	54502	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/1/2024 12:01	16401	MOPO_T1	4	6	2	0.55	0.52	-0.03	0	0	0	0	0	0	0	0
5/1/2024 12:04	40603	PIGR_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/1/2024 12:04	40602	PIGR_T1	0	1	1	0	0.2	0.2	0.14	0.17	1	1	0	600	600	0
5/1/2024 12:04	67603	WARW_T1	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
5/1/2024 12:04	40601	PIGR_T1	28	29	1	0.34	0.4	0.06	0	0	0	0	0	0	0	0
5/1/2024 12:04	67605	WARW_T1	55	49	-6	0.31	0.33	0.02	-0.84	-0.79	0	0	0	0	0	0
5/1/2024 12:06	40603	PIGR_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/1/2024 12:06	40602	PIGR_T1	0	1	1	0	0.2	0.2	0.42	0.51	3	3	0	1800	1800	0
5/1/2024 12:06	40601	PIGR_T1	28	29	1	0.34	0.4	0.06	0	0	0	0	0	0	0	0
5/1/2024 12:06	47802	MOOA_T2	0	0	0	0	0	0	0.38	0.34	0	0	0	0	0	0
5/1/2024 12:09	14603	SWHI_T1	6	4	-2	0.77	0.73	-0.04	0	0	0	0	0	0	0	0
5/1/2024 12:09	14605	SWHI_T1	0	0	0	0	0	0	1.46	1.58	1	1	0	1200	1200	0
5/1/2024 12:09	14601	SWHI_T1	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
5/1/2024 12:09	14602	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/1/2024 12:11	13501	MCMI_T1	1	2	1	0.6	0.3	-0.3	0.05	0.06	0	0	0	0	0	0
5/1/2024 12:11	13502	MCMI_T1	5	3	-2	0.54	0.83	0.29	0	0	0	0	0	0	0	0
5/1/2024 12:12	21206	ECAR_T2	1	2	1	8.1	4.05	-4.05	1.52	1.63	0	0	0	0	0	0
5/1/2024 12:12	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 12:14	67605	WARW_T1	55	49	-6	0.31	0.33	0.02	-0.79	-0.87	0	0	0	0	0	0
5/1/2024 12:14	67603	WARW_T1	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
5/1/2024 12:16	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
5/1/2024 12:17	57306	MOAL_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/1/2024 12:17	57304	MOAL_T2	1	1	0	0.2	0.3	0.1	-0.51	-0.45	0	0	0	0	0	0
5/1/2024 12:17	57303	MOAL_T2	1	1	0	7.1	7.2	0.1	0	0	0	0	0	0	0	0
5/1/2024 12:18	42002	MNVL_T2	1	1	0	4.4	4.3	-0.1	0	0	0	0	0	0	0	0
5/1/2024 12:18	41202	KENM_T2	0	0	0	0	0	0	0.77	0.74	0	0	0	0	0	0
5/1/2024 12:18	42001	MNVL_T2	3	2	-1	0.8	1.1	0.3	0.16	0.18	0	0	0	0	0	0
5/1/2024 12:19	67605	WARW_T1	42	45	3	0.33	0.31	-0.02	-0.79	-0.87	0	0	0	0	0	0
5/1/2024 12:19	67603	WARW_T1	1	2	1	0.7	0.15	-0.55	0	0	0	0	0	0	0	0
5/1/2024 12:20	40603	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 12:20	40602	PIGR_T1	1	1	0	0.2	0.1	-0.1	0.17	0.21	1	1	0	600	600	0
5/1/2024 12:20	40601	PIGR_T1	23	47	24	0.34	0.34	0	0	0	0	0	0	0	0	0
5/1/2024 12:21	65603	QVIL_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
5/1/2024 12:22	40303	TAMA_T3	0	0	0	0	0	0	0.79	0.67	0	0	0	0	0	0
5/1/2024 12:22	13704	SCHN_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/1/2024 12:22	40302	TAMA_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/1/2024 12:22	13701	SCHN_T2	0	1	1	0	0.2	0.2	0.31	0.34	1	1	0	600	600	0
5/1/2024 12:22	40301	TAMA_T3	1	2	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/1/2024 12:29	67605	WARW_T1	42	45	3	0.33	0.31	-0.02	-0.87	-0.55	0	0	0	0	0	0
5/1/2024 12:29	67603	WARW_T1	1	2	1	0.7	0.15	-0.55	0	0	0	0	0	0	0	0
5/1/2024 12:30	53903	HALI_T2	6	7	1	0.43	0.66	0.23	0	0	0	0	0	0	0	0
5/1/2024 12:30	53901	HALI_T2	1	0	-1	0.1	0	-0.1	-0.89	-0.89	0	0	0	0	0	0
5/1/2024 12:30	64802	MONE_T2	1	1	0	1	0.9	-0.1	0.27	0.26	0	0	0	0	0	0
5/1/2024 12:30	53902	HALI_T2	3	3	0	1.87	1.97	0.1	0	0	0	0	0	0	0	0
5/1/2024 12:30	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 12:31	65401	MARI_T1	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
5/1/2024 12:34	67605	WARW_T1	45	3	-42	0.31	0.13	-0.18	-0.87	-0.55	0	0	0	0	0	0
5/1/2024 12:34	67603	WARW_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/1/2024 12:36	11103	EGYP_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
5/1/2024 12:36	11101	EGYP_T1	1	3	2	0.3	0.1	-0.2	0	0	1	1	0	1200	1200	0
5/1/2024 12:37	65803	RTWN_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/1/2024 12:37	65802	RTWN_T2	2	6	4	0.85	0.45	-0.4	0.1	0.12	0	0	0	0	0	0
5/1/2024 12:38	42802	SELI_T1	0	0	0	0	0	0	-0.39	-0.36	1	1	0	900	900	0
5/1/2024 12:38	45901	AUBU_T1	0	0	0	0	0	0	1.97	2.04	0	0	0	0	0	0
5/1/2024 12:38	45902	AUBU_T1	1	1	0	0.7	0.5	-0.2	-0.44	-0.42	1	1	0	600	600	0
5/1/2024 12:39	45902	AUBU_T1	1	1	0	0.7	0.5	-0.2	-0.44	-0.42	1	1	0	600	600	0
5/1/2024 12:40	45902	AUBU_T1	1	1	0	0.7	0.5	-0.2	-0.44	-0.42	1	1	0	600	600	0
5/1/2024 12:40	22102	EDEL_T1	0	0	0	0	0	0	-0.49	-0.51	1	1	0	1200	1200	0
5/1/2024 12:41	45901	AUBU_T1	0	0	0	0	0	0	1.97	2.04	0	0	0	0	0	0
5/1/2024 12:41	45902	AUBU_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/1/2024 12:43	16103	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 12:43	40702	FFLD_T1	1	1	0	0.2	0.1	-0.1	-0.29	-0.09	1	1	0	1200	1200	0
5/1/2024 12:43	16101	BING_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
5/1/2024 12:43	16102	BING_T2	1	5	4	0.2	0.56	0.36	-0.86	-0.83	1	1	0	1200	1200	0
5/1/2024 12:43	40701	FFLD_T1	21	15	-6	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
5/1/2024 12:43	40703	FFLD_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/1/2024 12:44	45902	AUBU_T1	1	1	0	0.7	0.5	-0.2	-0.87	-0.85	2	2	0	1200	1200	0
5/1/2024 12:45	22102	EDEL_T1	0	0	0	0	0	0	-0.49	-0.51	1	1	0	1200	1200	0
5/1/2024 12:52	11103	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 12:52	11101	EGYP_T1	2	2	0	0.2	0	-0.2	0	0	1	1	0	1200	1200	0
5/1/2024 12:52	13302	ORVI_T2	1	0	-1	0.5	0	-0.5	1.6	1.62	0	0	0	0	0	0
5/1/2024 12:53	42802	SELI_T1	0	3	3	0	0.33	0.33	-0.36	-0.36	1	1	0	900	900	0
5/1/2024 12:55	11101	EGYP_T1	2	2	0	0.2	0	-0.2	0	0	1	1	0	1200	1200	0
5/1/2024 12:55	11103	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 12:59	67605	WARW_T1	1	5	4	0.2	0.38	0.18	-0.71	-0.67	0	0	0	0	0	0
5/1/2024 12:59	67603	WARW_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/1/2024 13:00	65503	MOJO_T2	2	2	0	1.2	0.3	-0.9	-0.47	-0.45	1	1	0	900	900	0
5/1/2024 13:00	14201	EALL_T1	0	0	0	0	0	0	1	1.06	0	0	0	0	0	0
5/1/2024 13:00	11101	EGYP_T1	2	0	-2	0.2	0	-0.2	0	0	1	1	0	1200	1200	0
5/1/2024 13:00	11103	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 13:00	14203	EALL_T1	0	4	4	0	0.53	0.53	0	0	0	0	0	0	0	0
5/1/2024 13:01	54201	PENN_T1	10	7	-3	0.71	0.94	0.23	0	0	0	0	0	0	0	0
5/1/2024 13:01	54203	PENN_T1	20	19	-1	0.41	0.57	0.16	0.64	0.48	0	0	0	0	0	0
5/1/2024 13:02	51202	MTON_T2	2	2	0	1.15	1.15	0	0.3	0.34	0	0	0	0	0	0
5/1/2024 13:04	65503	MOJO_T2	2	2	0	1.2	0.3	-0.9	-0.47	-0.45	1	1	0	900	900	0
5/1/2024 13:04	67605	WARW_T1	3	5	2	0.13	0.42	0.29	-0.71	-0.67	0	0	0	0	0	0
5/1/2024 13:04	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/1/2024 13:07	11101	EGYP_T1	2	0	-2	0.2	0	-0.2	0	0	1	1	0	1200	1200	0
5/1/2024 13:07	11103	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 13:11	45602	WOOL_T1	1	1	0	0.3	0.3	0	0.61	0.59	0	0	0	0	0	0
5/1/2024 13:11	11101	EGYP_T1	2	0	-2	0.2	0	-0.2	0	0	1	1	0	1200	1200	0
5/1/2024 13:11	11103	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 13:12	60801	BUCK_T1	1	0	-1	0.1	0	-0.1	0.24	0.16	0	0	0	0	0	0
5/1/2024 13:12	60803	BUCK_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/1/2024 13:12	62102	ELAN_T1	0	0	0	0	0	0	0.89	0.93	0	0	0	0	0	0
5/1/2024 13:12	17901	BART_T1	1	1	0	0.1	1	0.9	0.69	0.67	1	1	0	1200	1200	0
5/1/2024 13:14	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/1/2024 13:14	67605	WARW_T1	3	5	2	0.13	0.42	0.29	-0.67	-0.63	0	0	0	0	0	0
5/1/2024 13:15	46504	LOHA_T1	3	2	-1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
5/1/2024 13:15	46505	LOHA_T1	0	0	0	0	0	0	-0.26	-0.26	1	1	0	600	600	0
5/1/2024 13:16	46504	LOHA_T1	3	2	-1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
5/1/2024 13:16	46506	LOHA_T1	0	0	0	0	0	0	-0.45	-0.41	0	0	0	0	0	0
5/1/2024 13:16	11103	EGYP_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/1/2024 13:16	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
5/1/2024 13:16	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/1/2024 13:17	40101	HUNT_T2	2	1	-1	0.35	0.1	-0.25	-0.12	-0.1	0	0	0	0	0	0
5/1/2024 13:17	60801	BUCK_T1	0	0	0	0	0	0	0.24	0.16	0	0	0	0	0	0
5/1/2024 13:17	46504	LOHA_T1	3	2	-1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
5/1/2024 13:17	46506	LOHA_T1	0	0	0	0	0	0	-0.45	-0.41	0	0	0	0	0	0
5/1/2024 13:18	26401	INOR_T1	3	3	0	3.03	3.13	0.1	0.54	0.74	0	0	0	0	0	0
5/1/2024 13:18	46502	LOHA_T1	0	0	0	0	0	0	-1.21	-1.17	1	1	0	1200	1200	0
5/1/2024 13:18	46504	LOHA_T1	3	2	-1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
5/1/2024 13:18	26402	INOR_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/1/2024 13:18	14203	EALL_T1	0	4	4	0	0.53	0.53	0.21	0.2	1	1	0	1200	1200	0
5/1/2024 13:19	46504	LOHA_T1	3	2	-1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
5/1/2024 13:19	46506	LOHA_T1	0	0	0	0	0	0	-0.45	-0.41	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/1/2024 13:19	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
5/1/2024 13:19	67605	WARW_T1	5	7	2	0.38	0.41	0.03	-0.67	-0.63	0	0	0	0	0	0
5/1/2024 13:19	67603	WARW_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/1/2024 13:23	66902	SHIL_T2	3	3	0	0.67	0.53	-0.14	-2.04	-1.95	0	0	0	0	0	0
5/1/2024 13:23	66901	SHIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/1/2024 13:23	66903	SHIL_T2	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
5/1/2024 13:24	66902	SHIL_T2	3	3	0	0.67	0.53	-0.14	-4.07	-3.91	0	0	0	0	0	0
5/1/2024 13:24	66903	SHIL_T2	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
5/1/2024 13:24	66901	SHIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/1/2024 13:26	45902	AUBU_T1	1	3	2	0.3	0.43	0.13	-0.98	-1.15	2	2	0	1200	1200	0
5/1/2024 13:26	10701	CATA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/1/2024 13:26	10702	CATA_T2	0	0	0	0	0	0	-0.32	-0.44	0	0	0	0	0	0
5/1/2024 13:26	10705	CATA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/1/2024 13:29	23202	HIRU_T2	2	5	3	0.1	0.36	0.26	0	0	0	0	0	0	0	0
5/1/2024 13:29	23201	HIRU_T2	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
5/1/2024 13:29	23203	HIRU_T2	2	3	1	0.25	0.23	-0.02	0.16	0.16	0	0	0	0	0	0
5/1/2024 13:31	45902	AUBU_T1	1	3	2	0.5	0.43	-0.07	-0.49	-0.57	1	1	0	600	600	0
5/1/2024 13:31	46504	LOHA_T1	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
5/1/2024 13:31	13501	MCMI_T1	1	0	-1	0.7	0	-0.7	0.09	0.09	0	0	0	0	0	0
5/1/2024 13:31	46506	LOHA_T1	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
5/1/2024 13:31	13502	MCMI_T1	3	4	1	0.53	0.68	0.15	0	0	0	0	0	0	0	0
5/1/2024 13:32	45902	AUBU_T1	1	3	2	0.5	0.43	-0.07	-0.49	-0.57	1	1	0	600	600	0
5/1/2024 13:33	13501	MCMI_T1	1	0	-1	0.7	0	-0.7	0.09	0.09	0	0	0	0	0	0
5/1/2024 13:33	13502	MCMI_T1	3	4	1	0.53	0.68	0.15	0	0	0	0	0	0	0	0
5/1/2024 13:37	45902	AUBU_T1	1	3	2	0.5	0.43	-0.07	-0.49	-0.57	1	1	0	600	600	0
5/1/2024 13:40	45902	AUBU_T1	1	3	2	0.5	0.43	-0.07	-0.57	-0.64	1	1	0	600	600	0
5/1/2024 13:40	55101	WERT_T1	0	0	0	0	0	0	-1.11	-1.54	3	3	0	2400	2400	0
5/1/2024 13:41	45902	AUBU_T1	1	3	2	0.5	0.43	-0.07	-0.57	-0.64	1	1	0	600	600	0
5/1/2024 13:42	45902	AUBU_T1	1	3	2	0.5	0.43	-0.07	-0.57	-0.64	1	1	0	600	600	0
5/1/2024 13:42	11507	FREE_T2	0	0	0	0	0	0	1.38	1.4	0	0	0	0	0	0
5/1/2024 13:47	12701	MACU_T1	0	0	0	0	0	0	0.42	0.31	0	0	0	0	0	0
5/1/2024 13:47	45902	AUBU_T1	3	2	-1	0.43	0.45	0.02	-0.57	-0.64	1	1	0	600	600	0
5/1/2024 13:50	64101	REFR_T1	6	7	1	0.75	0.67	-0.08	-0.09	-0.08	0	0	0	0	0	0
5/1/2024 13:51	42802	SELI_T1	2	3	1	0.5	0.47	-0.03	-1.55	-1.58	1	1	0	900	900	0
5/1/2024 13:52	45902	AUBU_T1	3	2	-1	0.43	0.45	0.02	-0.57	-0.64	1	1	0	600	600	0
5/1/2024 13:52	64101	REFR_T1	6	7	1	0.75	0.67	-0.08	-0.09	-0.08	0	0	0	0	0	0
5/1/2024 13:53	11102	EGYP_T1	0	3	3	0	0.67	0.67	0	0	0	0	0	0	0	0
5/1/2024 13:53	11103	EGYP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/1/2024 13:53	11101	EGYP_T1	0	3	3	0	0.1	0.1	0	0	1	1	0	1200	1200	0
5/1/2024 13:54	64101	REFR_T1	6	7	1	0.75	0.67	-0.08	-0.08	-0.08	0	0	0	0	0	0
5/1/2024 13:54	45902	AUBU_T1	3	2	-1	0.43	0.45	0.02	-0.64	-0.59	1	1	0	600	600	0
5/1/2024 13:55	45902	AUBU_T1	3	2	-1	0.43	0.45	0.02	-0.64	-0.59	1	1	0	600	600	0
5/1/2024 13:57	45902	AUBU_T1	3	2	-1	0.43	0.45	0.02	-0.64	-0.59	1	1	0	600	600	0
5/1/2024 13:58	11102	EGYP_T1	0	3	3	0	0.67	0.67	0	0	0	0	0	0	0	0
5/1/2024 13:58	11103	EGYP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/1/2024 13:58	11101	EGYP_T1	0	3	3	0	0.1	0.1	0	0	1	1	0	1200	1200	0
5/1/2024 13:58	45902	AUBU_T1	3	2	-1	0.43	0.45	0.02	-0.64	-0.59	1	1	0	600	600	0
5/1/2024 13:59	67605	WARW_T1	7	3	-4	0.4	0.57	0.17	-0.57	-0.55	0	0	0	0	0	0
5/1/2024 13:59	45502	DERR_T2	1	4	3	0.6	0.6	0	0.36	0.34	1	1	0	300	300	0
5/1/2024 13:59	67603	WARW_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/1/2024 13:59	45501	DERR_T2	2	3	1	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
5/1/2024 14:01	60102	COCA_T1	0	0	0	0	0	0	-0.41	-0.33	3	3	0	2100	2100	0
5/1/2024 14:01	60101	COCA_T1	5	3	-2	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
5/1/2024 14:02	45902	AUBU_T1	2	1	-1	0.45	0.5	0.05	-0.64	-0.59	1	1	0	600	600	0
5/1/2024 14:04	67605	WARW_T1	3	3	0	0.57	0.47	-0.1	-0.57	-0.55	0	0	0	0	0	0
5/1/2024 14:04	67603	WARW_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/1/2024 14:08	45902	AUBU_T1	2	1	-1	0.45	0.5	0.05	-1.19	-1.14	2	2	0	1200	1200	0
5/1/2024 14:10	45902	AUBU_T1	2	1	-1	0.45	0.5	0.05	-1.19	-1.14	2	2	0	1200	1200	0
5/1/2024 14:13	45902	AUBU_T1	2	1	-1	0.45	0.5	0.05	-1.19	-1.14	2	2	0	1200	1200	0
5/1/2024 14:14	67605	WARW_T1	3	3	0	0.57	0.47	-0.1	-0.55	-0.53	0	0	0	0	0	0
5/1/2024 14:14	67603	WARW_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/1/2024 14:14	60101	COCA_T1	5	3	-2	0.38	0.3	-0.08	0.64	0.68	0	0	0	0	0	0
5/1/2024 14:19	67605	WARW_T1	3	2	-1	0.47	0.2	-0.27	-0.55	-0.53	0	0	0	0	0	0
5/1/2024 14:19	67603	WARW_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/1/2024 14:22	64101	REFR_T1	4	3	-1	0.55	0.6	0.05	-0.08	-0.01	0	0	0	0	0	0
5/1/2024 14:23	45902	AUBU_T1	1	1	0	0.5	0.5	0	-0.57	-0.57	1	1	0	600	600	0
5/1/2024 14:23	64101	REFR_T1	4	3	-1	0.55	0.6	0.05	-0.01	-0.06	0	0	0	0	0	0
5/1/2024 14:24	45902	AUBU_T1	1	1	0	0.5	0.5	0	-0.57	-0.57	1	1	0	600	600	0
5/1/2024 14:25	26002	WDAM_T1	2	1	-1	0.15	0.7	0.55	0	0	0	0	0	0	0	0
5/1/2024 14:25	64101	REFR_T1	4	3	-1	0.55	0.6	0.05	-0.01	-0.06	0	0	0	0	0	0
5/1/2024 14:25	26001	WDAM_T1	0	0	0	0	0	0	-0.8	-0.84	0	0	0	0	0	0
5/1/2024 14:26	41602	CLEV_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
5/1/2024 14:26	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 14:27	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
5/1/2024 14:29	67605	WARW_T1	3	2	-1	0.47	0.2	-0.27	-0.53	-0.54	0	0	0	0	0	0
5/1/2024 14:29	45501	DERR_T2	2	3	1	0.7	0.27	-0.43	0.6	0.57	2	2	0	1800	1800	0
5/1/2024 14:29	45902	AUBU_T1	1	1	0	0.5	0.5	0	-1.14	-1.14	2	2	0	1200	1200	0
5/1/2024 14:29	67603	WARW_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/1/2024 14:29	45502	DERR_T2	4	0	-4	0.33	0	-0.33	0	0	0	0	0	0	0	0
5/1/2024 14:31	40101	HUNT_T2	2	1	-1	0.75	0	-0.75	-0.11	-0.06	0	0	0	0	0	0
5/1/2024 14:32	12701	MACU_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
5/1/2024 14:33	46302	ROHR_T1	8	10	2	1.21	1.25	0.04	0	0	0	0	0	0	0	0
5/1/2024 14:33	46301	ROHR_T1	9	27	18	0.64	0.4	-0.24	0.25	0.24	0	0	0	0	0	0
5/1/2024 14:34	67603	WARW_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/1/2024 14:34	67605	WARW_T1	2	1	-1	0.2	0.3	0.1	-0.53	-0.54	0	0	0	0	0	0
5/1/2024 14:35	46302	ROHR_T1	8	10	2	1.21	1.25	0.04	0	0	0	0	0	0	0	0
5/1/2024 14:35	46301	ROHR_T1	9	27	18	0.64	0.4	-0.24	0.25	0.24	0	0	0	0	0	0
5/1/2024 14:36	64101	REFR_T1	3	2	-1	0.53	0.85	0.32	-0.01	-0.06	0	0	0	0	0	0
5/1/2024 14:38	64101	REFR_T1	3	2	-1	0.53	0.85	0.32	-0.06	-0.04	0	0	0	0	0	0
5/1/2024 14:39	64101	REFR_T1	3	2	-1	0.53	0.85	0.32	-0.06	-0.04	0	0	0	0	0	0
5/1/2024 14:39	45902	AUBU_T1	1	1	0	0.4	0.5	0.1	-0.57	-0.49	1	1	0	600	600	0
5/1/2024 14:40	45902	AUBU_T1	1	1	0	0.4	0.5	0.1	-0.57	-0.49	1	1	0	600	600	0
5/1/2024 14:43	46203	DANV_T2	179	182	3	0.76	0.72	-0.04	0	0	0	0	0	0	0	0
5/1/2024 14:43	46206	DANV_T2	2	2	0	1.25	0.6	-0.65	2.5	2.48	1	1	0	1200	1200	0
5/1/2024 14:44	67605	WARW_T1	2	1	-1	0.2	0.3	0.1	-0.54	-0.52	0	0	0	0	0	0
5/1/2024 14:44	45902	AUBU_T1	1	1	0	0.4	0.5	0.1	-0.57	-0.49	1	1	0	600	600	0
5/1/2024 14:44	67603	WARW_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/1/2024 14:44	46203	DANV_T2	179	182	3	0.76	0.72	-0.04	0	0	0	0	0	0	0	0
5/1/2024 14:44	46206	DANV_T2	2	2	0	1.25	0.6	-0.65	2.5	2.48	1	1	0	1200	1200	0
5/1/2024 14:45	45902	AUBU_T1	1	1	0	0.5	0.3	-0.2	-0.57	-0.49	1	1	0	600	600	0
5/1/2024 14:48	12701	MACU_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
5/1/2024 14:49	67603	WARW_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
5/1/2024 14:49	67605	WARW_T1	1	2	1	0.2	0.25	0.05	-0.54	-0.52	0	0	0	0	0	0
5/1/2024 14:55	45901	AUBU_T1	0	0	0	0	0	0	2.3	2.39	0	0	0	0	0	0
5/1/2024 14:55	45902	AUBU_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/1/2024 14:56	20401	ASHF_T2	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/1/2024 14:56	20402	ASHF_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/1/2024 14:56	20403	ASHF_T2	7	8	1	0.4	0.63	0.23	1.21	1.25	0	0	0	0	0	0
5/1/2024 15:03	47401	PENS_T1	7	6	-1	0.74	0.8	0.06	0.19	0.32	0	0	0	0	0	0
5/1/2024 15:03	47402	PENS_T1	2	2	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
5/1/2024 15:03	47403	PENS_T1	5	18	13	0.88	0.38	-0.5	0	0	0	0	0	0	0	0
5/1/2024 15:04	59002	MIFF_T1	0	6	6	0	0.28	0.28	0	0	0	0	0	0	0	0
5/1/2024 15:04	59003	MIFF_T1	1	2	1	0.7	0.35	-0.35	-0.05	-0.99	0	0	0	0	0	0
5/1/2024 15:04	12701	MACU_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
5/1/2024 15:04	16901	MECK_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/1/2024 15:04	59001	MIFF_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/1/2024 15:04	16902	MECK_T1	4	1	-3	0.3	0.5	0.2	0.05	0.05	0	0	0	0	0	0
5/1/2024 15:05	56504	ROCK_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/1/2024 15:05	47402	PENS_T1	2	2	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
5/1/2024 15:05	47401	PENS_T1	7	6	-1	0.74	0.8	0.06	0.19	0.32	0	0	0	0	0	0
5/1/2024 15:05	56501	ROCK_T2	0	3	3	0	0.57	0.57	-0.01	-0.01	0	0	0	0	0	0
5/1/2024 15:05	47403	PENS_T1	5	18	13	0.88	0.38	-0.5	0	0	0	0	0	0	0	0
5/1/2024 15:07	26002	WDAM_T1	3	4	1	0.37	0.5	0.13	0	0	0	0	0	0	0	0
5/1/2024 15:07	56501	ROCK_T2	0	3	3	0	0.57	0.57	-0.01	-0.01	0	0	0	0	0	0
5/1/2024 15:07	56504	ROCK_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/1/2024 15:07	26001	WDAM_T1	1	1	0	0.2	0	-0.2	-0.84	-0.84	0	0	0	0	0	0
5/1/2024 15:13	40801	EXCH_T2	0	0	0	0	0	0	-0.21	-0.24	1	1	0	1200	1200	0
5/1/2024 15:16	26703	HEML_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	600	600	0
5/1/2024 15:16	26401	INOR_T1	3	3	0	2.63	2.7	0.07	0.84	0.86	0	0	0	0	0	0
5/1/2024 15:16	26402	INOR_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/1/2024 15:19	67605	WARW_T1	2	0	-2	0.25	0	-0.25	-0.74	-0.73	0	0	0	0	0	0
5/1/2024 15:19	12604	MACA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/1/2024 15:19	12601	MACA_T1	1	2	1	0.8	0.35	-0.45	1.04	1	0	0	0	0	0	0
5/1/2024 15:19	12605	MACA_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
5/1/2024 15:21	47402	PENS_T1	2	2	0	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
5/1/2024 15:21	47401	PENS_T1	6	5	-1	0.8	0.76	-0.04	0.32	0.33	0	0	0	0	0	0
5/1/2024 15:21	47403	PENS_T1	7	19	12	0.73	0.36	-0.37	0	0	0	0	0	0	0	0
5/1/2024 15:29	67605	WARW_T1	2	0	-2	0.25	0	-0.25	-0.73	-0.66	0	0	0	0	0	0
5/1/2024 15:31	64702	LITI_T2	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
5/1/2024 15:33	64702	LITI_T2	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
5/1/2024 15:34	67605	WARW_T1	0	0	0	0	0	0	-0.73	-0.66	0	0	0	0	0	0
5/1/2024 15:36	15603	NSTR_T2	1	1	0	0.3	0.1	-0.2	-0.58	-0.58	0	0	0	0	0	0
5/1/2024 15:36	46504	LOHA_T1	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
5/1/2024 15:36	46506	LOHA_T1	1	1	0	0.7	0.8	0.1	-0.38	-0.37	0	0	0	0	0	0
5/1/2024 15:36	15601	NSTR_T2	3	3	0	0.93	0.67	-0.26	0	0	0	0	0	0	0	0
5/1/2024 15:39	24101	EHAZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/1/2024 15:39	24105	EHAZ_T1	4	4	0	6.03	5.58	-0.45	0	0	0	0	0	0	0	0
5/1/2024 15:39	24104	EHAZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/1/2024 15:39	24102	EHAZ_T1	0	1	1	0	0	0	-0.22	-0.21	0	0	0	0	0	0
5/1/2024 15:40	45901	AUBU_T1	0	0	0	0	0	0	0.93	0.86	0	0	0	0	0	0
5/1/2024 15:40	45902	AUBU_T1	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
5/1/2024 15:44	67605	WARW_T1	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
5/1/2024 15:45	67702	WERN_T2	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
5/1/2024 15:46	46504	LOHA_T1	2	2	0	0.55	0.35	-0.2	0	0	0	0	0	0	0	0
5/1/2024 15:46	46506	LOHA_T1	1	1	0	0.1	0.8	0.7	-0.37	-0.38	0	0	0	0	0	0
5/1/2024 15:46	67703	WERN_T2	0	0	0	0	0	0	-0.38	-0.34	1	1	0	900	900	0
5/1/2024 15:49	67605	WARW_T1	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
5/1/2024 15:49	56802	BENV_T2	2	3	1	0.65	0.67	0.02	-1.04	-1.07	0	0	0	0	0	0
5/1/2024 15:50	56802	BENV_T2	2	3	1	0.65	0.67	0.02	-1.04	-1.07	0	0	0	0	0	0
5/1/2024 15:51	56801	BENV_T1	6	11	5	0.7	0.82	0.12	-0.54	-0.55	1	1	0	600	600	0
5/1/2024 15:51	56802	BENV_T2	2	3	1	0.65	0.67	0.02	-1.04	-1.07	0	0	0	0	0	0
5/1/2024 15:51	56803	BENV_T1	3	10	7	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
5/1/2024 15:52	46302	ROHR_T1	8	5	-3	1.3	2.02	0.72	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/1/2024 15:52	46301	ROHR_T1	16	15	-1	0.48	0.45	-0.03	0.28	0.26	0	0	0	0	0	0
5/1/2024 15:53	45902	AUBU_T1	2	2	0	0.7	0.8	0.1	-0.92	-0.96	2	2	0	1200	1200	0
5/1/2024 15:55	10805	CHHI_T2	1	1	0	8.2	8.2	0	-0.97	-0.95	1	1	0	600	600	0
5/1/2024 15:55	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 15:56	56501	ROCK_T2	2	3	1	1	0.77	-0.23	-0.01	-0.01	0	0	0	0	0	0
5/1/2024 15:57	61702	ELIZ_T2	0	0	0	0	0	0	-1.68	-1.74	2	2	0	1500	1500	0
5/1/2024 15:57	10805	CHHI_T2	1	1	0	8.2	8.2	0	-0.97	-0.95	1	1	0	600	600	0
5/1/2024 15:58	45902	AUBU_T1	2	2	0	0.7	0.8	0.1	-0.92	-0.96	2	2	0	1200	1200	0
5/1/2024 16:07	56802	BENV_T2	2	3	1	0.8	0.67	-0.13	-1.07	-1.09	0	0	0	0	0	0
5/1/2024 16:08	45902	AUBU_T1	2	1	-1	0.8	1.1	0.3	-0.48	-0.42	1	1	0	600	600	0
5/1/2024 16:09	45902	AUBU_T1	2	1	-1	0.8	1.1	0.3	-0.48	-0.42	1	1	0	600	600	0
5/1/2024 16:11	10602	BLGL_T2	2	1	-1	0.4	0.3	-0.1	0.42	0.36	0	0	0	0	0	0
5/1/2024 16:11	45902	AUBU_T1	2	1	-1	0.8	1.1	0.3	-0.48	-0.42	1	1	0	600	600	0
5/1/2024 16:12	45902	AUBU_T1	2	1	-1	0.8	1.1	0.3	-0.48	-0.42	1	1	0	600	600	0
5/1/2024 16:14	45902	AUBU_T1	2	1	-1	0.8	1.1	0.3	-0.96	-0.83	2	2	0	1200	1200	0
5/1/2024 16:17	51401	LYKE_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
5/1/2024 16:21	56802	BENV_T2	3	2	-1	0.67	0.65	-0.02	-2.19	-2.09	0	0	0	0	0	0
5/1/2024 16:22	56802	BENV_T2	3	2	-1	0.67	0.65	-0.02	-1.09	-1.04	0	0	0	0	0	0
5/1/2024 16:23	51401	LYKE_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
5/1/2024 16:24	56803	BENV_T1	10	7	-3	0.27	0.28	0.01	-0.48	-0.54	1	1	0	600	600	0
5/1/2024 16:24	56801	BENV_T1	11	7	-4	0.82	0.66	-0.16	0	0	0	0	0	0	0	0
5/1/2024 16:29	29402	BELT_T1	1	2	1	7.4	3.95	-3.45	0	0	0	0	0	0	0	0
5/1/2024 16:29	29401	BELT_T1	0	2	2	0	0.35	0.35	0	0	1	1	0	900	900	0
5/1/2024 16:34	52002	LING_T2	0	0	0	0	0	0	0.68	0.64	0	0	0	0	0	0
5/1/2024 16:40	40702	FFLD_T1	39	11	-28	0.18	0.22	0.04	-0.72	-0.62	1	1	0	1200	1200	0
5/1/2024 16:40	40701	FFLD_T1	30	27	-3	0.44	0.3	-0.14	0	0	0	0	0	0	0	0
5/1/2024 16:40	40703	FFLD_T1	3	2	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
5/1/2024 16:43	12002	HATF_T1	1	1	0	2.1	0.8	-1.3	0.57	0.62	0	0	0	0	0	0
5/1/2024 16:49	51401	LYKE_T1	0	0	0	0	0	0	0.39	0.34	0	0	0	0	0	0
5/1/2024 16:50	25503	MADI_T1	2	1	-1	0.35	0.2	-0.15	-0.91	-0.91	0	0	0	0	0	0
5/1/2024 16:50	25502	MADI_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/1/2024 16:52	47403	PENS_T1	1	3	2	1.2	1	-0.2	0	0	0	0	0	0	0	0
5/1/2024 16:52	47401	PENS_T1	2	1	-1	0.5	0.4	-0.1	0.37	0.26	0	0	0	0	0	0
5/1/2024 16:54	52002	LING_T2	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
5/1/2024 16:54	51401	LYKE_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
5/1/2024 16:59	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 16:59	11104	EGYP_T1	1	7	6	0.7	0.23	-0.47	0	0	0	0	0	0	0	0
5/1/2024 16:59	11103	EGYP_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
5/1/2024 17:07	20403	ASHF_T2	8	13	5	0.11	0.22	0.11	0.67	0.55	0	0	0	0	0	0
5/1/2024 17:07	20401	ASHF_T2	4	3	-1	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
5/1/2024 17:09	56501	ROCK_T2	3	4	1	0.53	0.67	0.14	-0.01	-0.01	0	0	0	0	0	0
5/1/2024 17:11	56501	ROCK_T2	3	4	1	0.53	0.67	0.14	-0.01	-0.01	0	0	0	0	0	0
5/1/2024 17:15	51401	LYKE_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
5/1/2024 17:20	51401	LYKE_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
5/1/2024 17:20	50701	SMEC_T1	0	0	0	0	0	0	0.04	-1	1	1	0	900	900	0
5/1/2024 17:23	56501	ROCK_T2	3	4	1	0.67	0.33	-0.34	-0.01	-0.01	0	0	0	0	0	0
5/1/2024 17:38	64101	REFR_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
5/1/2024 17:39	44301	BEAV_T2	0	0	0	0	0	0	0.22	0.36	1	1	0	600	600	0
5/1/2024 17:42	44301	BEAV_T2	0	0	0	0	0	0	0.22	0.36	1	1	0	600	600	0
5/1/2024 17:49	14401	SSLA_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
5/1/2024 17:49	14404	SSLA_T1	1	1	0	4.5	4.8	0.3	0.14	0.17	0	0	0	0	0	0
5/1/2024 17:49	14402	SSLA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/1/2024 17:49	67605	WARW_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
5/1/2024 17:53	14401	SSLA_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
5/1/2024 17:53	14404	SSLA_T1	1	1	0	4.5	4.8	0.3	0.14	0.17	0	0	0	0	0	0
5/1/2024 17:53	14402	SSLA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/1/2024 17:54	67605	WARW_T1	0	0	0	0	0	0	-0.61	-0.88	0	0	0	0	0	0
5/1/2024 18:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 18:17	12602	MACA_T1	0	0	0	0	0	0	-1.02	-0.99	0	0	0	0	0	0
5/1/2024 18:17	12601	MACA_T1	0	0	0	0	0	0	1.01	1.03	0	0	0	0	0	0
5/1/2024 18:19	52501	PROG_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
5/1/2024 18:23	52501	PROG_T1	0	0	0	0	0	0	-0.41	-0.54	0	0	0	0	0	0
5/1/2024 18:23	66902	SHIL_T2	0	0	0	0	0	0	-1.78	-1.79	0	0	0	0	0	0
5/1/2024 18:26	67804	WLAN_T1	2	2	0	0.3	0	-0.3	-0.54	-0.56	0	0	0	0	0	0
5/1/2024 18:35	51402	LYKE_T1	0	17	17	0	0.12	0.12	-1.97	-1.99	2	2	0	1200	1200	0
5/1/2024 18:41	55102	WERT_T2	0	0	0	0	0	0	-0.88	-0.94	1	1	0	600	600	0
5/1/2024 18:41	55104	WERT_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/1/2024 18:53	13901	SEID_T1	0	0	0	0	0	0	-0.7	-0.71	1	1	0	1200	1200	0
5/1/2024 18:53	13905	SEID_T1	1	1	0	7.8	0	-7.8	0	0	0	0	0	0	0	0
5/1/2024 18:54	67505	WEWI_T1	0	0	0	0	0	0	0.41	0.4	1	1	0	900	900	0
5/1/2024 18:59	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 18:59	62605	ENGL_T1	0	0	0	0	0	0	-0.9	-0.94	0	0	0	0	0	0
5/1/2024 19:05	41902	REED_T1	2	3	1	0.15	0.7	0.55	1.29	1.29	0	0	0	0	0	0
5/1/2024 19:05	41901	REED_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/1/2024 19:10	57004	WHHI_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
5/1/2024 19:19	46801	HEPB_T2	4	5	1	0.43	0.36	-0.07	0	0	0	0	0	0	0	0
5/1/2024 19:19	46803	HEPB_T2	1	1	0	0.2	0.2	0	0.6	0.59	0	0	0	0	0	0
5/1/2024 19:22	59202	THOM_T1	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
5/1/2024 19:22	59201	THOM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 19:43	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 20:07	13103	NHAM_T2	0	0	0	0	0	0	-1.54	-1.58	1	1	0	600	600	0
5/1/2024 20:07	43201	MVIL_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
5/1/2024 20:07	43202	MVIL_T2	56	56	0	0.42	0.35	-0.07	0	0	0	0	0	0	0	0
5/1/2024 20:18	50201	HARR_T3	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
5/1/2024 20:18	50103	HARR_T3	2	2	0	0.45	0.25	-0.2	-0.38	-0.32	1	1	0	1200	1200	0
5/1/2024 20:18	50105	HARR_T3	6	6	0	5.55	5.48	-0.07	0	0	0	0	0	0	0	0
5/1/2024 20:29	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 20:39	67703	WERN_T2	0	0	0	0	0	0	-0.59	-0.61	1	1	0	900	900	0
5/1/2024 20:40	67703	WERN_T2	0	0	0	0	0	0	-1.19	-1.23	2	2	0	1800	1800	0
5/1/2024 20:47	58402	MORO_T1	0	0	0	0	0	0	-1	-1.02	3	3	0	2400	2400	0
5/1/2024 21:10	66703	STRA_T1	4	6	2	0.13	0.53	0.4	-0.08	-0.15	0	0	0	0	0	0
5/1/2024 21:11	66703	STRA_T1	4	6	2	0.13	0.53	0.4	-0.08	-0.15	0	0	0	0	0	0
5/1/2024 21:15	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
5/1/2024 21:19	64204	KINZ_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/1/2024 21:19	64201	KINZ_T1	1	1	0	1	1	0	-0.55	-0.61	2	2	0	1200	1200	0
5/1/2024 21:26	65003	NEFF_T2	6	86	80	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
5/1/2024 21:26	65001	NEFF_T2	0	19	19	0	0.13	0.13	0	0	0	0	0	0	0	0
5/1/2024 21:26	65004	NEFF_T2	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
5/1/2024 21:33	64204	KINZ_T1	1	1	0	0.6	1.2	0.6	0	0	0	0	0	0	0	0
5/1/2024 21:33	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 21:33	13501	MCMI_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
5/1/2024 21:33	64201	KINZ_T1	1	9	8	1	0.34	-0.66	-0.61	-0.62	2	2	0	1200	1200	0
5/1/2024 21:33	64902	MILL_T2	0	0	0	0	0	0	-0.42	-0.41	1	1	0	900	900	0
5/1/2024 21:35	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 21:35	64204	KINZ_T1	1	1	0	0.6	1.2	0.6	0	0	0	0	0	0	0	0
5/1/2024 21:35	64201	KINZ_T1	1	9	8	1	0.34	-0.66	-0.61	-0.62	2	2	0	1200	1200	0
5/1/2024 21:36	64204	KINZ_T1	1	1	0	0.6	1.2	0.6	0	0	0	0	0	0	0	0
5/1/2024 21:36	64201	KINZ_T1	1	9	8	1	0.34	-0.66	-0.61	-0.62	2	2	0	1200	1200	0
5/1/2024 21:36	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 21:37	13704	SCHN_T2	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
5/1/2024 21:50	64904	MILL_T1	1	43	42	0.2	0.16	-0.04	-0.07	-0.16	0	0	0	0	0	0
5/1/2024 21:50	64901	MILL_T1	9	36	27	0.17	0.25	0.08	0	0	0	0	0	0	0	0
5/1/2024 21:51	10602	BLGL_T2	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
5/1/2024 21:52	46801	HEPB_T2	2	2	0	0.6	0.85	0.25	0.69	0.65	0	0	0	0	0	0
5/1/2024 21:54	63602	LETO_T1	0	0	0	0	0	0	-0.08	-0.25	0	0	0	0	0	0
5/1/2024 21:55	62607	ENGL_T1	1	2	1	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 21:55	15601	NSTR_T2	11	105	94	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
5/1/2024 21:55	21204	ECAR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/1/2024 21:55	15602	NSTR_T2	2	81	79	0.1	0.11	0.01	0	0	0	0	0	0	0	0
5/1/2024 21:55	62605	ENGL_T1	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
5/1/2024 21:55	21206	ECAR_T2	1	1	0	8	8.2	0.2	1.34	1.27	0	0	0	0	0	0
5/1/2024 21:55	15603	NSTR_T2	7	23	16	0.16	0.19	0.03	-0.59	-0.61	0	0	0	0	0	0
5/1/2024 21:56	17002	RIRO_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
5/1/2024 21:57	13502	MCMI_T1	0	8	8	0	0.14	0.14	0	0	0	0	0	0	0	0
5/1/2024 21:57	13501	MCMI_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
5/1/2024 21:58	15701	TANN_T1	14	76	62	0.56	0.23	-0.33	0	0	0	0	0	0	0	0
5/1/2024 21:58	26703	HEML_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	600	600	0
5/1/2024 21:58	13302	ORVI_T2	0	0	0	0	0	0	1.5	0.06	0	0	0	0	0	0
5/1/2024 21:58	15704	TANN_T1	173	215	42	0.2	0.28	0.08	-1.32	-1.17	0	0	0	0	0	0
5/1/2024 21:58	11103	EGYP_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
5/1/2024 21:59	16902	MECK_T1	0	1	1	0	0.1	0.1	0.05	0.05	0	0	0	0	0	0
5/1/2024 21:59	45902	AUBU_T1	0	5	5	0	0.12	0.12	-1.08	-1.07	1	1	0	600	600	0
5/1/2024 21:59	54203	PENN_T1	18	21	3	1.23	1.35	0.12	0	0	0	0	0	0	0	0
5/1/2024 21:59	54205	PENN_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 21:59	54201	PENN_T1	29	81	52	0.52	0.4	-0.12	-0.74	-0.79	0	0	0	0	0	0
5/1/2024 22:00	64902	MILL_T1	9	109	100	0.14	0.15	0.01	-0.16	-0.2	0	0	0	0	0	0
5/1/2024 22:00	25402	LAHA_T2	1	2	1	0.1	0.15	0.05	-0.9	-0.91	0	0	0	0	0	0
5/1/2024 22:00	20403	ASHF_T2	38	35	-3	0.92	0.52	-0.4	0	0	0	0	0	0	0	0
5/1/2024 22:00	65003	NEFF_T2	51	0	-51	0.16	0	-0.16	0	0	0	0	0	0	0	0
5/1/2024 22:00	40303	TAMA_T3	0	0	0	0	0	0	0.56	0.49	0	0	0	0	0	0
5/1/2024 22:00	29402	BELT_T1	1	1	0	7.6	7.9	0.3	0	0	0	0	0	0	0	0
5/1/2024 22:00	65001	NEFF_T2	118	0	-118	0.17	0	-0.17	-0.71	-0.75	1	1	0	1200	1200	0
5/1/2024 22:00	60803	BUCK_T1	5	0	-5	0.12	0	-0.12	-1.15	-0.48	1	1	0	600	600	0
5/1/2024 22:00	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/1/2024 22:00	64901	MILL_T1	13	53	40	0.17	0.26	0.09	0	0	0	0	0	0	0	0
5/1/2024 22:00	20401	ASHF_T2	5	2	-3	0.44	0.1	-0.34	-0.24	-0.33	0	0	0	0	0	0
5/1/2024 22:00	25404	LAHA_T2	114	349	235	0.12	0.14	0.02	0	0	0	0	0	0	0	0
5/1/2024 22:00	40302	TAMA_T3	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/1/2024 22:00	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 22:00	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	2	2	0	1800	1800	0
5/1/2024 22:01	11507	FREE_T2	0	0	0	0	0	0	1.25	1.1	0	0	0	0	0	0
5/1/2024 22:01	20401	ASHF_T2	5	2	-3	0.44	0.1	-0.34	0	0	0	0	0	0	0	0
5/1/2024 22:01	51003	NHAR_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/1/2024 22:01	23203	HIRU_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
5/1/2024 22:01	20403	ASHF_T2	38	35	-3	0.92	0.52	-0.4	0.2	0.18	0	0	0	0	0	0
5/1/2024 22:01	28403	HART_T2	0	0	0	0	0	0	-0.96	-0.98	1	1	0	900	900	0
5/1/2024 22:01	51002	NHAR_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
5/1/2024 22:01	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/1/2024 22:01	65503	MOJO_T2	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
5/1/2024 22:01	65502	MOJO_T2	105	0	-105	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/1/2024 22:01	51004	NHAR_T1	5	1	-4	1.38	6.3	4.92	-0.24	-0.25	0	0	0	0	0	0
5/1/2024 22:02	67803	WLAN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/1/2024 22:02	64702	LITI_T2	0	0	0	0	0	0	-0.55	-0.48	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/1/2024 22:02	67805	WLAN_T1	280	467	187	0.23	0.36	0.13	0	0	0	0	0	0	0	0
5/1/2024 22:02	54203	PENN_T1	21	18	-3	1.35	0.69	-0.66	0.9	0.84	0	0	0	0	0	0
5/1/2024 22:02	66902	SHIL_T2	0	0	0	0	0	0	-2.44	-2.52	0	0	0	0	0	0
5/1/2024 22:02	67802	WLAN_T1	0	10	10	0	0.19	0.19	0	0	0	0	0	0	0	0
5/1/2024 22:02	67804	WLAN_T1	0	4	4	0	0.13	0.13	-0.9	-0.89	0	0	0	0	0	0
5/1/2024 22:02	54205	PENN_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/1/2024 22:02	63402	HONY_T2	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
5/1/2024 22:02	54201	PENN_T1	81	7	-74	0.4	0.89	0.49	0	0	0	0	0	0	0	0
5/1/2024 22:02	63403	HONY_T2	0	0	0	0	0	0	0.17	0.11	0	0	0	0	0	0
5/1/2024 22:02	67801	WLAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 22:03	11103	EGYP_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
5/1/2024 22:03	45901	AUBU_T1	0	0	0	0	0	0	2.07	2.05	0	0	0	0	0	0
5/1/2024 22:03	46002	BERW_T2	0	0	0	0	0	0	-0.95	-0.98	1	1	0	900	900	0
5/1/2024 22:03	26402	INOR_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 22:03	51202	MTON_T2	0	0	0	0	0	0	0.32	0.27	0	0	0	0	0	0
5/1/2024 22:03	67605	WARW_T1	0	0	0	0	0	0	-0.88	-1.03	0	0	0	0	0	0
5/1/2024 22:03	26401	INOR_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
5/1/2024 22:03	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/1/2024 22:03	45902	AUBU_T1	5	0	-5	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/1/2024 22:03	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/1/2024 22:03	13303	ORVI_T1	0	0	0	0	0	0	1.12	-0.4	0	0	0	0	0	0
5/1/2024 22:04	46203	DANV_T2	182	343	161	0.58	0.93	0.35	0	0	0	0	0	0	0	0
5/1/2024 22:04	46206	DANV_T2	0	0	0	0	0	0	2.47	2.48	1	1	0	1200	1200	0
5/1/2024 22:04	56801	BENV_T1	29	16	-13	0.83	1.21	0.38	-0.7	-0.74	1	1	0	600	600	0
5/1/2024 22:04	57002	WHHI_T2	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0
5/1/2024 22:04	60102	COCA_T1	0	0	0	0	0	0	-0.24	0.17	3	2	-1	2100	1500	-600
5/1/2024 22:04	56803	BENV_T1	15	6	-9	0.73	0.72	-0.01	0	0	0	0	0	0	0	0
5/1/2024 22:04	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
5/1/2024 22:04	46504	LOHA_T1	4	41	37	0.75	0.31	-0.44	0	0	0	0	0	0	0	0
5/1/2024 22:04	57006	WHHI_T2	40	0	-40	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/1/2024 22:04	51107	CARL_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
5/1/2024 22:04	66902	SHIL_T2	0	0	0	0	0	0	-4.88	-5.04	0	0	0	0	0	0
5/1/2024 22:04	46506	LOHA_T1	0	1	1	0	0.2	0.2	-0.4	-0.4	0	0	0	0	0	0
5/1/2024 22:04	45902	AUBU_T1	5	0	-5	0.12	0	-0.12	-2.16	-2.13	2	2	0	1200	1200	0
5/1/2024 22:05	26001	WDAM_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
5/1/2024 22:05	10805	CHHI_T2	1	1	0	7.5	7.6	0.1	-1.92	-1.97	2	2	0	1200	1200	0
5/1/2024 22:05	52006	LING_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/1/2024 22:05	67505	WEWI_T1	0	0	0	0	0	0	0.06	0.06	1	1	0	900	900	0
5/1/2024 22:05	45902	AUBU_T1	5	0	-5	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/1/2024 22:05	58402	MORO_T1	0	0	0	0	0	0	-0.31	-0.45	2	2	0	1500	1500	0
5/1/2024 22:05	60101	COCA_T1	0	0	0	0	0	0	0.4	0.36	0	0	0	0	0	0
5/1/2024 22:05	16402	MOPO_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
5/1/2024 22:05	40101	HUNT_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
5/1/2024 22:05	45901	AUBU_T1	0	0	0	0	0	0	2.07	2.05	0	0	0	0	0	0
5/1/2024 22:05	40602	PIGR_T1	0	0	0	0	0	0	-1	0.17	0	0	0	0	0	0
5/1/2024 22:05	47401	PENS_T1	0	0	0	0	0	0	-0.18	1.09	0	0	0	0	0	0
5/1/2024 22:05	10801	CHHI_T1	0	0	0	0	0	0	-2.48	-2.6	4	4	0	3000	3000	0
5/1/2024 22:05	40601	PIGR_T1	56	0	-56	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/1/2024 22:05	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
5/1/2024 22:05	26002	WDAM_T1	4	4	0	0.48	0.55	0.07	0	0	0	0	0	0	0	0
5/1/2024 22:05	52002	LING_T2	0	0	0	0	0	0	0.28	0.24	0	0	0	0	0	0
5/1/2024 22:06	46301	ROHR_T1	73	226	153	0.17	0.35	0.18	0.18	0.18	0	0	0	0	0	0
5/1/2024 22:06	14402	SSLA_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/1/2024 22:06	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
5/1/2024 22:06	67502	WEWI_T2	6	273	267	0.22	0.2	-0.02	-1.23	-1.28	1	1	0	900	900	0
5/1/2024 22:06	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 22:06	67803	WLAN_T1	0	2	2	0	0.15	0.15	-0.67	-0.72	0	0	0	0	0	0
5/1/2024 22:06	55002	NEWP_T1	6	3	-3	0.67	0.43	-0.24	-0.25	-0.28	0	0	0	0	0	0
5/1/2024 22:06	60803	BUCK_T1	5	0	-5	0.12	0	-0.12	-1.15	-0.48	1	1	0	600	600	0
5/1/2024 22:06	67801	WLAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 22:06	67805	WLAN_T1	280	467	187	0.23	0.36	0.13	0	0	0	0	0	0	0	0
5/1/2024 22:06	57006	WHHI_T2	40	0	-40	0.18	0	-0.18	0.83	0.86	0	0	0	0	0	0
5/1/2024 22:06	14404	SSLA_T1	2	1	-1	3.1	5.3	2.2	0.01	0	0	0	0	0	0	0
5/1/2024 22:06	10805	CHHI_T2	1	1	0	7.5	7.6	0.1	-0.96	-0.99	1	1	0	600	600	0
5/1/2024 22:06	13501	MCMI_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
5/1/2024 22:06	67802	WLAN_T1	0	10	10	0	0.19	0.19	0	0	0	0	0	0	0	0
5/1/2024 22:06	64702	LITI_T2	0	0	0	0	0	0	-0.55	-0.48	0	0	0	0	0	0
5/1/2024 22:06	61103	BERK_T5	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
5/1/2024 22:06	13502	MCMI_T1	0	15	15	0	0.13	0.13	0	0	0	0	0	0	0	0
5/1/2024 22:06	67804	WLAN_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
5/1/2024 22:06	46302	ROHR_T1	5	32	27	1.82	0.48	-1.34	0	0	0	0	0	0	0	0
5/1/2024 22:06	41202	KENM_T2	1	1	0	0.3	0.3	0	0.67	0.62	0	0	0	0	0	0
5/1/2024 22:06	66504	SMAN_T2	0	0	0	0	0	0	-0.45	-0.67	0	0	0	0	0	0
5/1/2024 22:06	51101	CARL_T1	0	0	0	0	0	0	-1.26	-1.34	1	1	0	600	600	0
5/1/2024 22:07	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	1	1	0	900	900	0
5/1/2024 22:07	14801	TREI_T2	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
5/1/2024 22:07	15001	BLMO_T1	5	10	5	0.12	0.39	0.27	0	0	0	0	0	0	0	0
5/1/2024 22:07	59101	WALK_T2	0	0	0	0	0	0	0.86	0.91	1	1	0	600	600	0
5/1/2024 22:07	14204	EALL_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
5/1/2024 22:07	17901	BART_T1	0	0	0	0	0	0	-0.06	-0.14	1	1	0	1200	1200	0
5/1/2024 22:07	45602	WOOL_T1	3	3	0	0.67	0.5	-0.17	0.55	0.51	0	0	0	0	0	0
5/1/2024 22:07	14205	EALL_T2	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
5/1/2024 22:07	12601	MACA_T1	0	0	0	0	0	0	0.83	0.83	0	0	0	0	0	0
5/1/2024 22:07	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/1/2024 22:07	45902	AUBU_T1	5	0	-5	0.12	0	-0.12	-1.08	-1.07	1	1	0	600	600	0
5/1/2024 22:07	29402	BELT_T1	1	1	0	7.6	7.9	0.3	0	0	0	0	0	0	0	0
5/1/2024 22:07	65205	PRIN_T1	1	1	0	1.4	1.7	0.3	0	0	0	0	0	0	0	0
5/1/2024 22:08	42802	SEU_T1	0	0	0	0	0	0	-1.06	-1.19	0	0	0	0	0	0
5/1/2024 22:08	40601	PIGR_T1	56	0	-56	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/1/2024 22:08	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.26	0	0	0	0	0	0
5/1/2024 22:08	16302	ALPA_T1	2	45	43	0.45	0.17	-0.28	-0.19	-0.19	0	0	0	0	0	0
5/1/2024 22:08	45901	AUBU_T1	0	0	0	0	0	0	2.05	2.15	0	0	0	0	0	0
5/1/2024 22:08	52501	PROG_T1	0	0	0	0	0	0	-0.29	-0.32	1	1	0	300	300	0
5/1/2024 22:08	57006	WHHI_T2	40	0	-40	0.18	0	-0.18	0.86	0.89	0	0	0	0	0	0
5/1/2024 22:08	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/1/2024 22:08	45902	AUBU_T1	5	0	-5	0.12	0	-0.12	-1.07	-1	1	1	0	600	600	0
5/1/2024 22:08	51402	LYKE_T1	0	0	0	0	0	0	-1.39	-1.42	1	1	0	600	600	0
5/1/2024 22:08	40602	PIGR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
5/1/2024 22:08	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 22:09	55002	NEWP_T1	6	3	-3	0.67	0.43	-0.24	-0.56	-0.56	0	0	0	0	0	0
5/1/2024 22:09	63401	HONY_T1	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
5/1/2024 22:09	62102	ELAN_T1	0	0	0	0	0	0	1.01	1.1	0	0	0	0	0	0
5/1/2024 22:09	66901	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 22:09	59003	MIFF_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
5/1/2024 22:09	63804	HEMP_T1	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
5/1/2024 22:09	63404	HONY_T1	16	10	-6	0.18	0.12	-0.06	0	0	0	0	0	0	0	0
5/1/2024 22:09	62104	ELAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/1/2024 22:09	59002	MIFF_T1	6	5	-1	0.67	0.14	-0.53	0	0	0	0	0	0	0	0
5/1/2024 22:09	50701	SMEC_T1	0	0	0	0	0	0	0.51	-0.54	0	0	0	0	0	0
5/1/2024 22:09	41901	REED_T1	9	6	-3	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
5/1/2024 22:09	63803	HEMP_T1	60	1	-59	0.15	0.1	-0.05	0.69	0.73	0	0	0	0	0	0
5/1/2024 22:09	41902	REED_T1	0	0	0	0	0	0	1.1	1.01	0	0	0	0	0	0
5/1/2024 22:09	63801	HEMP_T1	4	1	-3	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/1/2024 22:09	61502	EPET_T1	0	0	0	0	0	0	-0.8	-0.76	0	0	0	0	0	0
5/1/2024 22:09	12701	MACU_T1	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
5/1/2024 22:10	23901	EFMO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/1/2024 22:10	44502	HAMI_T2	1	1	0	3.4	3.5	0.1	0	0	0	0	0	0	0	0
5/1/2024 22:10	41801	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/1/2024 22:10	60101	COCA_T1	0	0	0	0	0	0	0.36	0.32	0	0	0	0	0	0
5/1/2024 22:10	14802	TREI_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
5/1/2024 22:10	14402	SSLA_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/1/2024 22:10	47401	PENS_T1	0	0	0	0	0	0	1.09	1.05	0	0	0	0	0	0
5/1/2024 22:10	44504	HAMI_T2	0	0	0	0	0	0	-1.2	-1.19	0	0	0	0	0	0
5/1/2024 22:10	16102	BING_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
5/1/2024 22:10	65503	MOJO_T2	0	0	0	0	0	0	-0.04	-0.15	0	0	0	0	0	0
5/1/2024 22:10	65502	MOJO_T2	105	0	-105	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/1/2024 22:10	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
5/1/2024 22:10	15001	BLMO_T1	5	10	5	0.12	0.39	0.27	0	0	0	0	0	0	0	0
5/1/2024 22:10	26001	WDAM_T1	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
5/1/2024 22:10	56501	ROCK_T2	3	0	-3	0.53	0	-0.53	-0.02	-0.02	0	0	0	0	0	0
5/1/2024 22:10	61103	BERK_T5	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
5/1/2024 22:10	60501	NMAN_T2	3	3	0	5	4.33	-0.67	0	0	0	0	0	0	0	0
5/1/2024 22:10	60502	NMAN_T2	0	0	0	0	0	0	-0.18	-0.29	0	0	0	0	0	0
5/1/2024 22:10	41802	GOCI_T2	13	0	-13	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/1/2024 22:10	26002	WDAM_T1	4	4	0	0.48	0.55	0.07	0	0	0	0	0	0	0	0
5/1/2024 22:10	14404	SSLA_T1	2	1	-1	3.1	5.3	2.2	0	0.02	0	0	0	0	0	0
5/1/2024 22:11	56802	BENV_T2	88	1	-87	0.18	0.9	0.72	-0.69	-0.76	0	0	0	0	0	0
5/1/2024 22:11	57304	MOAL_T2	1	1	0	1.1	0.7	-0.4	-0.36	-0.4	0	0	0	0	0	0
5/1/2024 22:11	55104	WERT_T2	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
5/1/2024 22:11	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
5/1/2024 22:11	61801	EELI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/1/2024 22:11	56801	BENV_T1	29	16	-13	0.83	1.21	0.38	0	0	0	0	0	0	0	0
5/1/2024 22:11	52501	PROG_T1	0	0	0	0	0	0	-0.29	-0.32	1	1	0	300	300	0
5/1/2024 22:11	42002	MNVL_T2	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
5/1/2024 22:11	57303	MOAL_T2	1	1	0	6.9	7.3	0.4	0	0	0	0	0	0	0	0
5/1/2024 22:11	40101	HUNT_T2	0	0	0	0	0	0	-0.4	-0.45	0	0	0	0	0	0
5/1/2024 22:11	10805	CHHI_T2	1	1	0	7.5	7.6	0.1	-0.99	-0.99	1	1	0	600	600	0
5/1/2024 22:11	44301	BEAV_T2	0	0	0	0	0	0	-0.24	0.03	1	1	0	600	600	0
5/1/2024 22:11	55102	WERT_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
5/1/2024 22:11	46504	LOHA_T1	4	41	37	0.75	0.31	-0.44	0	0	0	0	0	0	0	0
5/1/2024 22:11	46506	LOHA_T1	0	1	1	0	0.2	0.2	-0.4	-0.42	0	0	0	0	0	0
5/1/2024 22:11	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.11	-0.05	2	2	0	1800	1800	0
5/1/2024 22:11	46203	DANV_T2	182	343	161	0.58	0.93	0.35	-3.18	-3.26	0	0	0	0	0	0
5/1/2024 22:11	56803	BENV_T1	15	6	-9	0.73	0.72	-0.01	-0.38	-0.41	0	0	0	0	0	0
5/1/2024 22:11	61803	EELI_T2	0	0	0	0	0	0	0.16	0.17	1	1	0	600	600	0
5/1/2024 22:11	42001	MNVL_T2	1	0	-1	0.1	0	-0.1	0.1	0.03	0	0	0	0	0	0
5/1/2024 22:11	12701	MACU_T1	0	0	0	0	0	0	0.2	0.14	0	0	0	0	0	0
5/1/2024 22:11	60902	DONG_T2	0	0	0	0	0	0	0.85	0.81	0	0	0	0	0	0
5/1/2024 22:11	67703	WERN_T2	0	0	0	0	0	0	-0.74	-0.82	1	1	0	900	900	0
5/1/2024 22:12	44601	SALE_T2	1	1	0	0.2	0.6	0.4	-0.01	-0.07	0	0	0	0	0	0
5/1/2024 22:12	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	1	1	0	900	900	0
5/1/2024 22:12	45702	LIND_T2	1	1	0	0.5	0.3	-0.2	-0.98	-1.01	0	0	0	0	0	0
5/1/2024 22:12	64801	MONE_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/1/2024 22:12	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
5/1/2024 22:12	45501	DERR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/1/2024 22:12	20403	ASHF_T2	38	35	-3	0.92	0.52	-0.4	0.18	0.16	0	0	0	0	0	0
5/1/2024 22:12	61801	EELI_T2	1	0	-1	0.1	0	-0.1	-0.85	-0.9	1	1	0	600	600	0
5/1/2024 22:12	45502	DERR_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
5/1/2024 22:12	64802	MONE_T2	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
5/1/2024 22:12	29402	BELT_T1	1	1	0	7.6	7.9	0.3	0	0	0	0	0	0	0	0
5/1/2024 22:12	20401	ASHF_T2	5	2	-3	0.44	0.1	-0.34	0	0	0	0	0	0	0	0
5/1/2024 22:12	46004	BERW_T2	0	0	0	0	0	0	0.09	0.03	0	0	0	0	0	0
5/1/2024 22:12	46301	ROHR_T1	73	226	153	0.17	0.35	0.18	0.18	0.17	0	0	0	0	0	0
5/1/2024 22:12	46302	ROHR_T1	5	32	27	1.82	0.48	-1.34	0	0	0	0	0	0	0	0
5/1/2024 22:13	57006	WHHI_T2	40	0	-40	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/1/2024 22:13	57004	WHHI_T2	0	0	0	0	0	0	-0.4	-0.44	0	0	0	0	0	0
5/1/2024 22:13	67804	WLAN_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
5/1/2024 22:13	40801	EXCH_T2	0	0	0	0	0	0	-0.48	-0.51	1	1	0	1200	1200	0
5/1/2024 22:13	67805	WLAN_T1	280	467	187	0.23	0.36	0.13	0	0	0	0	0	0	0	0
5/1/2024 22:13	42201	SHEN_T2	0	0	0	0	0	0	0.05	0.02	1	1	0	600	600	0
5/1/2024 22:13	12602	MACA_T1	0	0	0	0	0	0	-1.36	-1.39	0	0	0	0	0	0
5/1/2024 22:13	56802	BENV_T2	88	1	-87	0.18	0.9	0.72	-0.69	-0.76	0	0	0	0	0	0
5/1/2024 22:13	67803	WLAN_T1	0	2	2	0	0.15	0.15	-0.72	-0.71	0	0	0	0	0	0
5/1/2024 22:13	67802	WLAN_T1	0	10	10	0	0.19	0.19	0	0	0	0	0	0	0	0
5/1/2024 22:13	67801	WLAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 22:14	15001	BLMO_T1	5	10	5	0.12	0.39	0.27	0	0	0	0	0	0	0	0
5/1/2024 22:14	67703	WERN_T2	0	0	0	0	0	0	-0.74	-0.82	1	1	0	900	900	0
5/1/2024 22:15	46203	DANV_T2	289	342	53	0.77	0.92	0.15	-1.06	-1.09	0	0	0	0	0	0
5/1/2024 22:15	46506	LOHA_T1	1	1	0	0.1	0.2	0.1	-0.4	-0.42	0	0	0	0	0	0
5/1/2024 22:15	44301	BEAV_T2	0	0	0	0	0	0	-0.24	0.03	1	1	0	600	600	0
5/1/2024 22:15	52501	PROG_T1	0	0	0	0	0	0	-0.29	-0.32	1	1	0	300	300	0
5/1/2024 22:15	55101	WERT_T1	0	0	0	0	0	0	-1.29	-1.32	2	2	0	1500	1500	0
5/1/2024 22:15	15001	BLMO_T1	6	13	7	0.6	0.28	-0.32	0	0	0	0	0	0	0	0
5/1/2024 22:15	46504	LOHA_T1	41	2	-39	0.31	1.35	1.04	0	0	0	0	0	0	0	0
5/1/2024 22:16	42201	SHEN_T2	0	0	0	0	0	0	0.05	0.02	1	1	0	600	600	0
5/1/2024 22:16	46206	DANV_T2	0	0	0	0	0	0	2.48	2.38	1	1	0	1200	1200	0
5/1/2024 22:16	46203	DANV_T2	289	342	53	0.77	0.92	0.15	0	0	0	0	0	0	0	0
5/1/2024 22:17	52006	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/1/2024 22:17	46801	HEPB_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/1/2024 22:17	46803	HEPB_T2	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
5/1/2024 22:17	52002	LING_T2	0	1	1	0	0.2	0.2	0.24	0.18	0	0	0	0	0	0
5/1/2024 22:17	64101	REFR_T1	0	4	4	0	0.2	0.2	-0.21	-0.26	0	0	0	0	0	0
5/1/2024 22:18	47401	PENS_T1	0	0	0	0	0	0	1.09	1.05	0	0	0	0	0	0
5/1/2024 22:18	44301	BEAV_T2	0	0	0	0	0	0	-0.24	0.03	1	1	0	600	600	0
5/1/2024 22:18	59101	WALK_T2	0	0	0	0	0	0	0.91	0.96	1	1	0	600	600	0
5/1/2024 22:19	47401	PENS_T1	0	0	0	0	0	0	1.09	1.05	0	0	0	0	0	0
5/1/2024 22:20	42802	SELI_T1	0	0	0	0	0	0	-1.19	-1.22	0	0	0	0	0	0
5/1/2024 22:22	46506	LOHA_T1	1	1	0	0.1	0.2	0.1	-0.4	-0.42	0	0	0	0	0	0
5/1/2024 22:22	46504	LOHA_T1	41	2	-39	0.31	1.35	1.04	0	0	0	0	0	0	0	0
5/1/2024 22:26	54203	PENN_T1	18	18	0	0.69	0.33	-0.36	0.81	0.8	0	0	0	0	0	0
5/1/2024 22:26	54201	PENN_T1	7	3	-4	0.89	1.37	0.48	0	0	0	0	0	0	0	0
5/1/2024 22:30	56802	BENV_T2	1	1	0	0.9	0.9	0	-0.76	-0.78	0	0	0	0	0	0
5/1/2024 22:32	56802	BENV_T2	1	1	0	0.9	0.9	0	-0.76	-0.78	0	0	0	0	0	0
5/1/2024 22:33	56802	BENV_T2	1	1	0	0.9	0.9	0	-1.51	-1.55	0	0	0	0	0	0
5/1/2024 22:33	53902	HALI_T2	1	1	0	5	5.4	0.4	0	0	0	0	0	0	0	0
5/1/2024 22:33	53903	HALI_T2	2	2	0	0.7	1	0.3	0	0	0	0	0	0	0	0
5/1/2024 22:33	53901	HALI_T2	0	1	1	0	0.6	0.6	-1.46	-1.5	0	0	0	0	0	0
5/1/2024 22:33	55002	NEWP_T1	2	5	3	0.55	0.78	0.23	-0.28	-0.26	0	0	0	0	0	0
5/1/2024 22:34	56802	BENV_T2	1	1	0	0.9	0.9	0	-3.78	-3.89	0	0	0	0	0	0
5/1/2024 22:35	56501	ROCK_T2	0	1	1	0	0.2	0.2	-0.02	-0.02	0	0	0	0	0	0
5/1/2024 22:39	56802	BENV_T2	1	1	0	0.9	0.9	0	-0.78	-0.76	0	0	0	0	0	0
5/1/2024 22:45	61102	BERK_T5	0	0	0	0	0	0	0.92	0.92	1	1	0	300	300	0
5/1/2024 22:54	64101	REFR_T1	4	3	-1	0.2	0.1	-0.1	-0.28	-0.13	0	0	0	0	0	0
5/1/2024 22:57	59202	THOM_T1	5	4	-1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
5/1/2024 23:42	45602	WOOL_T1	3	3	0	0.77	0.87	0.1	0.4	0.38	0	0	0	0	0	0
5/2/2024 0:06	25501	MADI_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
5/2/2024 0:06	25503	MADI_T1	545	690	145	0.68	0.83	0.15	-1.11	-1.1	0	0	0	0	0	0
5/2/2024 2:27	67703	WERN_T2	0	0	0	0	0	0	-1.05	-1.05	1	1	0	900	900	0
5/2/2024 6:52	67805	WLAN_T1	0	0	0	0	0	0	-1.24	-1.13	0	0	0	0	0	0
5/2/2024 6:55	15001	BLMO_T1	0	4	4	0	0.75	0.75	0	0	0	0	0	0	0	0
5/2/2024 7:17	64904	MILL_T1	0	43	43	0	0.13	0.13	-0.53	-0.49	0	0	0	0	0	0
5/2/2024 7:17	64901	MILL_T1	0	15	15	0	0.14	0.14	0	0	0	0	0	0	0	0
5/2/2024 7:20	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/2/2024 7:20	11104	EGYP_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/2/2024 7:25	67804	WLAN_T1	0	0	0	0	0	0	-1.17	-1.15	0	0	0	0	0	0
5/2/2024 7:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 7:27	46203	DANV_T2	193	180	-13	0.67	0.68	0.01	-2.42	-2.44	0	0	0	0	0	0
5/2/2024 7:28	46203	DANV_T2	193	180	-13	0.67	0.68	0.01	-2.42	-2.44	0	0	0	0	0	0
5/2/2024 7:30	46803	HEPB_T2	13	0	-13	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/2/2024 7:30	46801	HEPB_T2	27	2	-25	0.21	0.8	0.59	0.53	0.52	0	0	0	0	0	0
5/2/2024 7:40	67803	WLAN_T1	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
5/2/2024 7:40	46001	BERW_T1	0	0	0	0	0	0	0.54	0.58	0	0	0	0	0	0
5/2/2024 7:42	46203	DANV_T2	171	179	8	0.6	0.68	0.08	-2.44	-2.44	0	0	0	0	0	0
5/2/2024 7:43	41502	FAIR_T2	0	0	0	0	0	0	-0.73	-0.7	0	0	0	0	0	0
5/2/2024 7:44	46203	DANV_T2	171	179	8	0.6	0.68	0.08	-2.44	-2.44	0	0	0	0	0	0
5/2/2024 7:45	40801	EXCH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 7:45	40802	EXCH_T2	0	0	0	0	0	0	-0.01	0.08	0	0	0	0	0	0
5/2/2024 7:46	52002	LING_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/2/2024 7:46	52006	LING_T2	3	3	0	0.2	0.73	0.53	0	0	0	0	0	0	0	0
5/2/2024 7:46	52004	LING_T2	0	1	1	0	0.4	0.4	0.35	0.36	0	0	0	0	0	0
5/2/2024 7:48	52004	LING_T2	0	1	1	0	0.4	0.4	0.35	0.36	0	0	0	0	0	0
5/2/2024 7:48	52002	LING_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/2/2024 7:48	52006	LING_T2	3	3	0	0.2	0.73	0.53	0	0	0	0	0	0	0	0
5/2/2024 7:52	67002	STHI_T2	0	0	0	0	0	0	0.69	0.74	0	0	0	0	0	0
5/2/2024 7:55	26001	WDAM_T1	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
5/2/2024 7:56	45901	AUBU_T1	0	0	0	0	0	0	1.49	1.46	0	0	0	0	0	0
5/2/2024 7:59	40101	HUNT_T2	0	1	1	0	0	0	-0.47	-0.46	0	0	0	0	0	0
5/2/2024 7:59	67605	WARW_T1	0	0	0	0	0	0	-0.52	-0.58	0	0	0	0	0	0
5/2/2024 8:04	57106	SPHI_T2	2	2	0	1.5	1.8	0.3	0	0	0	0	0	0	0	0
5/2/2024 8:04	57101	SPHI_T2	6	6	0	0.27	0.97	0.7	0	0	0	0	0	0	0	0
5/2/2024 8:04	67605	WARW_T1	0	0	0	0	0	0	-0.52	-0.58	0	0	0	0	0	0
5/2/2024 8:04	57104	SPHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 8:04	57103	SPHI_T2	0	0	0	0	0	0	-0.33	-0.34	1	1	0	600	600	0
5/2/2024 8:05	66502	SMAN_T2	0	0	0	0	0	0	0.25	0.43	0	0	0	0	0	0
5/2/2024 8:07	67801	WLAN_T1	0	0	0	0	0	0	1.04	0.15	0	0	0	0	0	0
5/2/2024 8:07	44301	BEAV_T2	0	1	1	0	0	0	0.46	0.61	2	2	0	1500	1500	0
5/2/2024 8:07	67502	WEWI_T2	1	1	0	0.1	0.2	0.1	-1.24	-1.25	1	1	0	900	900	0
5/2/2024 8:07	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/2/2024 8:07	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.37	0	0	0	0	0	0
5/2/2024 8:08	57104	SPHI_T2	0	1	1	0	0	0	-2.07	-2.08	1	1	0	900	900	0
5/2/2024 8:08	57106	SPHI_T2	2	2	0	1.5	1.8	0.3	0	0	0	0	0	0	0	0
5/2/2024 8:08	57101	SPHI_T2	6	6	0	0.27	0.97	0.7	0	0	0	0	0	0	0	0
5/2/2024 8:09	15203	SFAR_T2	0	0	0	0	0	0	-1.37	-1.38	0	0	0	0	0	0
5/2/2024 8:09	67605	WARW_T1	0	0	0	0	0	0	-0.58	-0.54	0	0	0	0	0	0
5/2/2024 8:09	67803	WLAN_T1	0	1	1	0	0.1	0.1	-0.89	-0.9	0	0	0	0	0	0
5/2/2024 8:10	66502	SMAN_T2	0	0	0	0	0	0	0.43	0.5	0	0	0	0	0	0
5/2/2024 8:14	67605	WARW_T1	0	0	0	0	0	0	-0.58	-0.54	0	0	0	0	0	0
5/2/2024 8:20	15204	SFAR_T2	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
5/2/2024 8:21	23001	SAJO_T1	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
5/2/2024 8:21	15204	SFAR_T2	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
5/2/2024 8:21	50701	SMEC_T1	0	0	0	0	0	0	-0.98	0.3	1	0	-1	1200	0	-1200
5/2/2024 8:22	56802	BENV_T2	146	11	-135	0.21	0.31	0.1	-1.47	-0.74	0	0	0	0	0	0
5/2/2024 8:24	56802	BENV_T2	146	11	-135	0.21	0.31	0.1	-0.74	-0.68	0	0	0	0	0	0
5/2/2024 8:24	67605	WARW_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
5/2/2024 8:25	56802	BENV_T2	146	11	-135	0.21	0.31	0.1	-1.48	-1.37	0	0	0	0	0	0
5/2/2024 8:26	56802	BENV_T2	146	11	-135	0.21	0.31	0.1	-2.22	-2.05	0	0	0	0	0	0
5/2/2024 8:27	56802	BENV_T2	146	11	-135	0.21	0.31	0.1	-0.74	-0.68	0	0	0	0	0	0
5/2/2024 8:29	67605	WARW_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
5/2/2024 8:31	64702	LITI_T2	0	1	1	0	9.9	9.9	-0.59	-0.6	0	0	0	0	0	0
5/2/2024 8:33	46301	ROHR_T1	98	82	-16	0.18	0.18	0	0	0	0	0	0	0	0	0
5/2/2024 8:33	64702	LITI_T2	0	1	1	0	9.9	9.9	-0.59	-0.6	0	0	0	0	0	0
5/2/2024 8:33	46302	ROHR_T1	7	5	-2	1.46	2.2	0.74	0.08	0.09	0	0	0	0	0	0
5/2/2024 8:34	46506	LOHA_T1	1	1	0	0.3	0.6	0.3	-0.48	-0.44	0	0	0	0	0	0
5/2/2024 8:34	46504	LOHA_T1	2	13	11	1.05	0.31	-0.74	0	0	0	0	0	0	0	0
5/2/2024 8:36	54202	PENN_T2	0	0	0	0	0	0	-0.02	-0.07	0	0	0	0	0	0
5/2/2024 8:36	64101	REFR_T1	0	0	0	0	0	0	-0.38	-0.35	0	0	0	0	0	0
5/2/2024 8:37	64101	REFR_T1	0	0	0	0	0	0	-0.75	-0.71	0	0	0	0	0	0
5/2/2024 8:39	64101	REFR_T1	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
5/2/2024 8:39	67605	WARW_T1	0	1	1	0	0.3	0.3	-0.54	-0.51	0	0	0	0	0	0
5/2/2024 8:41	40801	EXCH_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/2/2024 8:41	40802	EXCH_T2	0	0	0	0	0	0	0.07	0.24	0	0	0	0	0	0
5/2/2024 8:44	67605	WARW_T1	0	1	1	0	0.3	0.3	-0.54	-0.51	0	0	0	0	0	0
5/2/2024 8:48	64904	MILL_T1	4	3	-1	0.25	0.35	0.1	-0.32	-0.37	0	0	0	0	0	0
5/2/2024 8:49	13503	MCMI_T2	1	1	0	0.5	0.6	0.1	-0.01	-0.01	0	0	0	0	0	0
5/2/2024 8:55	56802	BENV_T2	11	13	2	0.26	0.32	0.06	-0.7	-0.68	0	0	0	0	0	0
5/2/2024 8:56	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 8:57	63401	HONY_T1	0	0	0	0	0	0	0.63	0.56	0	0	0	0	0	0
5/2/2024 9:02	25402	LAHA_T2	0	2	2	0	0.2	0.2	-0.61	-0.54	0	0	0	0	0	0
5/2/2024 9:02	63401	HONY_T1	0	0	0	0	0	0	0.63	0.56	0	0	0	0	0	0
5/2/2024 9:06	67804	WLAN_T1	0	0	0	0	0	0	-1.11	-1.08	0	0	0	0	0	0
5/2/2024 9:09	13901	SEID_T1	0	0	0	0	0	0	0.19	0.37	0	0	0	0	0	0
5/2/2024 9:09	29402	BELT_T1	2	3	1	4.4	3	-1.4	0	0	0	0	0	0	0	0
5/2/2024 9:09	29401	BELT_T1	1	0	-1	0.2	0	-0.2	0	0	1	0	-1	900	0	-900
5/2/2024 9:10	67605	WARW_T1	1	1	0	0.3	0.4	0.1	-0.52	-0.51	0	0	0	0	0	0
5/2/2024 9:19	54504	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/2/2024 9:19	54502	ENOL_T2	1	1	0	0.8	0.7	-0.1	-1.11	-1.13	1	1	0	600	600	0
5/2/2024 9:19	54505	ENOL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/2/2024 9:28	10805	CHHI_T2	2	3	1	5.15	5.1	-0.05	-0.21	-0.21	1	1	0	600	600	0
5/2/2024 9:28	10801	CHHI_T1	4	5	1	0.38	0.68	0.3	-0.7	-0.52	1	1	0	900	900	0
5/2/2024 9:31	65503	MOJO_T2	0	0	0	0	0	0	-0.71	-0.6	1	1	0	900	900	0
5/2/2024 9:32	26704	HEMI_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	1200	1200	0
5/2/2024 9:34	64904	MILL_T1	2	4	2	1.1	0.28	-0.82	-0.31	-0.27	0	0	0	0	0	0
5/2/2024 9:34	64901	MILL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/2/2024 9:38	67803	WLAN_T1	0	3	3	0	0.2	0.2	-0.84	-0.83	0	0	0	0	0	0
5/2/2024 9:38	49803	UNIV_T1	0	0	0	0	0	0	-0.94	-0.92	0	0	0	0	0	0
5/2/2024 9:38	67804	WLAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/2/2024 9:38	49804	UNIV_T1	1	3	2	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/2/2024 9:39	20401	ASHF_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
5/2/2024 9:39	20403	ASHF_T2	4	14	10	0.33	0.49	0.16	1.28	1.11	0	0	0	0	0	0
5/2/2024 9:45	64801	MONE_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
5/2/2024 9:45	64802	MONE_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
5/2/2024 9:50	44601	SALE_T2	0	0	0	0	0	0	1.06	1.16	1	1	0	600	600	0
5/2/2024 9:52	17002	RIRO_T2	212	217	5	0.21	0.22	0.01	0.65	0.64	0	0	0	0	0	0
5/2/2024 9:57	15001	BLMO_T1	4	6	2	0.53	0.63	0.1	0	0	0	0	0	0	0	0
5/2/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.98	1.03	0	0	0	0	0	0
5/2/2024 10:00	61302	EARL_T1	0	0	0	0	0	0	1.22	1.25	2	2	0	1800	1800	0
5/2/2024 10:00	59201	THOM_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/2/2024 10:00	40505	CRES_T1	3	3	0	4.43	4	-0.43	0.48	0.44	0	0	0	0	0	0
5/2/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
5/2/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-0.3	-0.38	0	0	0	0	0	0
5/2/2024 10:00	42002	MNVL_T2	1	1	0	4.7	4.7	0	0	0	0	0	0	0	0	0
5/2/2024 10:00	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/2/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	1.25	1.36	0	0	0	0	0	0
5/2/2024 10:00	63401	HONY_T1	0	0	0	0	0	0	0.58	0.64	0	0	0	0	0	0
5/2/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.63	-0.7	1	1	0	900	900	0
5/2/2024 10:00	16901	MECK_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
5/2/2024 10:00	46504	LOHA_T1	2	2	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
5/2/2024 10:00	12501	MITR_T2	1	1	0	0.1	2.8	2.7	0	0	0	0	0	0	0	0
5/2/2024 10:00	43103	SMIL_T2	8	9	1	0.3	0.36	0.06	0	0	0	0	0	0	0	0
5/2/2024 10:00	43101	SMIL_T2	1	2	1	0.3	1	0.7	0	0	0	0	0	0	0	0
5/2/2024 10:00	42903	MIDD_T2	0	0	0	0	0	0	0.41	0.38	1	1	0	1200	1200	0
5/2/2024 10:00	50503	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/2/2024 10:00	42001	MNVL_T2	3	4	1	0.33	0.38	0.05	0.03	0.09	0	0	0	0	0	0
5/2/2024 10:00	43102	SMIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/2/2024 10:00	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/2/2024 10:00	50505	MECH_T1	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
5/2/2024 10:00	67703	WERN_T2	0	0	0	0	0	0	-0.06	-0.05	1	1	0	900	900	0
5/2/2024 10:00	54601	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/2/2024 10:00	46206	DANV_T2	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
5/2/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
5/2/2024 10:00	53501	EVIL_T2	2	2	0	0.3	0.1	-0.2	0.61	0.64	1	1	0	600	600	0
5/2/2024 10:00	16102	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/2/2024 10:00	59102	WALK_T2	1	1	0	0.1	0.4	0.3	-0.19	-0.11	1	1	0	600	600	0
5/2/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
5/2/2024 10:00	47002	HUGH_T2	0	0	0	0	0	0	-0.59	-0.53	0	0	0	0	0	0
5/2/2024 10:00	50502	MECH_T1	1	1	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
5/2/2024 10:00	11102	EGYP_T1	3	3	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
5/2/2024 10:00	65004	NEFF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/2/2024 10:00	67002	STHI_T2	3	14	11	0.23	0.34	0.11	0.9	0.94	0	0	0	0	0	0
5/2/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
5/2/2024 10:00	43104	SMIL_T2	0	2	2	0	0.3	0.3	-0.8	-0.79	1	1	0	300	300	0
5/2/2024 10:00	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/2/2024 10:00	56501	ROCK_T2	2	2	0	0.5	0.4	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/2/2024 10:00	16902	MECK_T1	1	4	3	0.1	0.15	0.05	0.04	0.04	0	0	0	0	0	0
5/2/2024 10:00	54001	SDLE_T1	2	2	0	0.3	0.65	0.35	0	0	0	0	0	0	0	0
5/2/2024 10:00	59202	THOM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/2/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	0.13	0.02	1	1	0	1200	1200	0
5/2/2024 10:00	17001	RIRO_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
5/2/2024 10:00	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 10:00	54505	ENOL_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
5/2/2024 10:00	58803	COCO_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
5/2/2024 10:00	66502	SMAN_T2	0	1	1	0	0.3	0.3	1.12	0.74	0	0	0	0	0	0
5/2/2024 10:00	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	1.17	1.29	0	0	0	0	0	0
5/2/2024 10:00	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.47	-0.54	1	1	0	600	600	0
5/2/2024 10:00	21901	HUMB_T1	1	0	-1	8.1	0	-8.1	-0.92	-0.91	0	0	0	0	0	0
5/2/2024 10:00	47104	MARI_T1	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
5/2/2024 10:00	56504	ROCK_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/2/2024 10:00	24702	FLND_T2	10	2	-8	0.17	0.85	0.68	0	0	0	0	0	0	0	0
5/2/2024 10:00	42902	MIDD_T2	4	4	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/2/2024 10:00	22102	EDEL_T1	0	0	0	0	0	0	-0.31	-0.34	1	1	0	1200	1200	0
5/2/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	-0.11	-0.12	2	2	0	1200	1200	0
5/2/2024 10:00	12505	MITR_T2	0	0	0	0	0	0	2.23	2.24	0	0	0	0	0	0
5/2/2024 10:00	12601	MACA_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/2/2024 10:00	67502	WEWI_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/2/2024 10:00	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 10:00	24701	FLND_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
5/2/2024 10:00	42201	SHEN_T2	1	2	1	0.2	0.3	0.1	0.01	0.06	2	2	0	1200	1200	0
5/2/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.47	-0.28	2	2	0	1200	1200	0
5/2/2024 10:00	24105	EHAZ_T1	4	4	0	6.9	6.75	-0.15	-0.5	-0.53	1	1	0	1200	1200	0
5/2/2024 10:00	45602	WOOL_T1	1	7	6	0.1	0.16	0.06	0.52	0.46	0	0	0	0	0	0
5/2/2024 10:00	24101	EHAZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/2/2024 10:00	54504	ENOL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/2/2024 10:00	24104	EHAZ_T1	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
5/2/2024 10:00	67702	WERN_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
5/2/2024 10:00	65002	NEFF_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
5/2/2024 10:00	56601	HAMP_T1	0	1	1	0	0.2	0.2	-1.53	-1.55	0	0	0	0	0	0
5/2/2024 10:00	10801	CHHI_T1	3	7	4	0.67	0.87	0.2	-0.61	-0.75	1	1	0	900	900	0
5/2/2024 10:00	12604	MACA_T1	0	1	1	0	0.1	0.1	0.34	0.35	0	0	0	0	0	0
5/2/2024 10:00	39601	LNFD_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/2/2024 10:00	54602	SUMM_T2	0	0	0	0	0	0	-2.29	-2.29	1	1	0	600	600	0
5/2/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	-0.6	-0.57	1	1	0	600	600	0
5/2/2024 10:00	12502	MITR_T2	1	1	0	7.3	7.3	0	0	0	0	0	0	0	0	0
5/2/2024 10:00	67001	STHI_T2	2	21	19	0.2	0.21	0.01	0	0	0	0	0	0	0	0
5/2/2024 10:00	50506	MECH_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/2/2024 10:00	43105	SMIL_T2	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
5/2/2024 10:00	46203	DANV_T2	162	90	-72	0.46	0.31	-0.15	-0.94	-0.92	0	0	0	0	0	0
5/2/2024 10:00	46501	LOHA_T1	0	0	0	0	0	0	0.01	0.09	1	1	0	1200	1200	0
5/2/2024 10:00	16103	BING_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/2/2024 10:00	50501	MECH_T1	4	4	0	0.78	0.5	-0.28	0	0	0	0	0	0	0	0
5/2/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.71	1.69	0	0	0	0	0	0
5/2/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-0.43	-0.32	1	1	0	1200	1200	0
5/2/2024 10:06	51002	NHAR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/2/2024 10:06	42302	MOWR_T2	0	0	0	0	0	0	-0.02	0.03	0	0	0	0	0	0
5/2/2024 10:06	51004	NHAR_T1	13	7	-6	0.75	1.09	0.34	0	0	0	0	0	0	0	0
5/2/2024 10:07	64305	LINC_T1	0	0	0	0	0	0	0.25	0.3	0	0	0	0	0	0
5/2/2024 10:07	58101	NEKI_T1	1	3	2	0.2	0.25	0.05	0	0	0	0	0	0	0	0
5/2/2024 10:07	41902	REED_T1	0	0	0	0	0	0	1.21	1.19	0	0	0	0	0	0
5/2/2024 10:07	15404	WALL_T1	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
5/2/2024 10:07	53501	EVIL_T2	2	2	0	0.3	0.1	-0.2	0.61	0.64	1	1	0	600	600	0
5/2/2024 10:07	52001	LING_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
5/2/2024 10:07	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.46	1	1	0	600	600	0
5/2/2024 10:07	64801	MONE_T2	1	1	0	0.2	0.1	-0.1	0.3	0.33	0	0	0	0	0	0
5/2/2024 10:07	60801	BUCK_T1	0	0	0	0	0	0	0.11	0.17	0	0	0	0	0	0
5/2/2024 10:07	58402	MORO_T1	0	0	0	0	0	0	-0.14	-0.11	2	2	0	1500	1500	0
5/2/2024 10:07	58102	NEKI_T1	1	2	1	0.8	0.55	-0.25	-0.66	-0.63	1	1	0	1200	1200	0
5/2/2024 10:08	63803	HEMP_T1	1	22	21	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
5/2/2024 10:08	56801	BENV_T1	14	14	0	0.65	0.57	-0.08	0	0	0	0	0	0	0	0
5/2/2024 10:08	67702	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/2/2024 10:08	63804	HEMP_T1	1	1	0	6.6	6.1	-0.5	0	0	0	0	0	0	0	0
5/2/2024 10:08	63801	HEMP_T1	4	12	8	0.13	0.44	0.31	0.57	0.59	0	0	0	0	0	0
5/2/2024 10:08	56803	BENV_T1	1	1	0	2.1	3.4	1.3	0.13	0.19	0	0	0	0	0	0
5/2/2024 10:08	67703	WERN_T2	0	0	0	0	0	0	-0.05	-0.06	1	1	0	900	900	0
5/2/2024 10:09	56801	BENV_T1	14	14	0	0.65	0.57	-0.08	-0.16	-0.13	0	0	0	0	0	0
5/2/2024 10:09	15001	BLMO_T1	4	5	1	0.7	0.66	-0.04	0	0	0	0	0	0	0	0
5/2/2024 10:09	56803	BENV_T1	1	1	0	2.1	3.4	1.3	0	0	0	0	0	0	0	0
5/2/2024 10:09	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
5/2/2024 10:10	20403	ASHF_T2	11	14	3	0.5	0.64	0.14	0	0	0	0	0	0	0	0
5/2/2024 10:10	20401	ASHF_T2	1	2	1	0.5	0.15	-0.35	-0.16	-0.12	0	0	0	0	0	0
5/2/2024 10:10	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
5/2/2024 10:10	67702	WERN_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
5/2/2024 10:10	67703	WERN_T2	0	0	0	0	0	0	-0.05	-0.06	1	1	0	900	900	0
5/2/2024 10:10	67803	WLAN_T1	0	2	2	0	0.15	0.15	-0.82	-0.8	0	0	0	0	0	0
5/2/2024 10:11	56802	BENV_T2	6	8	2	0.38	0.43	0.05	-0.6	-0.59	0	0	0	0	0	0
5/2/2024 10:11	15001	BLMO_T1	4	5	1	0.7	0.66	-0.04	0	0	0	0	0	0	0	0
5/2/2024 10:11	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 10:11	20403	ASHF_T2	11	14	3	0.5	0.64	0.14	1.14	1.15	0	0	0	0	0	0
5/2/2024 10:11	20401	ASHF_T2	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
5/2/2024 10:11	29402	BELT_T1	4	5	1	2.23	1.98	-0.25	0	0	0	0	0	0	0	0
5/2/2024 10:12	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 10:12	29402	BELT_T1	4	5	1	2.23	1.98	-0.25	0	0	0	0	0	0	0	0
5/2/2024 10:15	25402	LAHA_T2	1	2	1	0.6	0.5	-0.1	-0.38	-0.42	0	0	0	0	0	0
5/2/2024 10:15	41801	GOCI_T2	151	221	70	0.3	0.44	0.14	0	0	0	0	0	0	0	0
5/2/2024 10:15	46801	HEPB_T2	2	2	0	0.8	0.95	0.15	0.68	0.69	0	0	0	0	0	0
5/2/2024 10:15	41802	GOCI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/2/2024 10:15	46803	HEPB_T2	1	2	1	1.3	0.75	-0.55	0	0	0	0	0	0	0	0
5/2/2024 10:17	42002	MNVL_T2	1	1	0	4.7	4.5	-0.2	0	0	0	0	0	0	0	0
5/2/2024 10:17	42001	MNVL_T2	4	3	-1	0.3	0.4	0.1	0.09	0.09	0	0	0	0	0	0
5/2/2024 10:18	13303	ORVI_T1	0	1	1	0	0.1	0.1	-0.22	-0.16	0	0	0	0	0	0
5/2/2024 10:18	46801	HEPB_T2	2	2	0	0.8	0.95	0.15	0.68	0.69	0	0	0	0	0	0
5/2/2024 10:18	46803	HEPB_T2	1	2	1	1.3	0.75	-0.55	0	0	0	0	0	0	0	0
5/2/2024 10:19	65503	MOJO_T2	0	2	2	0	0.5	0.5	-0.69	-0.67	1	1	0	900	900	0
5/2/2024 10:20	54203	PENN_T1	17	18	1	0.34	0.34	0	0.43	0.5	0	0	0	0	0	0
5/2/2024 10:20	65002	NEFF_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
5/2/2024 10:20	65004	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/2/2024 10:20	65001	NEFF_T2	0	0	0	0	0	0	-0.32	-0.19	1	1	0	1200	1200	0
5/2/2024 10:20	65503	MOJO_T2	0	2	2	0	0.5	0.5	-0.69	-0.67	1	1	0	900	900	0
5/2/2024 10:20	54201	PENN_T1	7	7	0	0.87	0.99	0.12	0	0	0	0	0	0	0	0
5/2/2024 10:21	13704	SCHN_T2	1	1	0	0.4	0.3	-0.1	-0.27	-0.26	0	0	0	0	0	0
5/2/2024 10:21	13701	SCHN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/2/2024 10:22	26002	WDAM_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/2/2024 10:22	50103	HARR_T3	2	0	-2	0.1	0	-0.1	-0.41	-0.35	1	1	0	1200	1200	0
5/2/2024 10:22	50201	HARR_T3	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 10:22	23001	SAJO_T1	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
5/2/2024 10:22	50105	HARR_T3	6	6	0	6.07	5.92	-0.15	0	0	0	0	0	0	0	0
5/2/2024 10:22	14802	TREI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/2/2024 10:22	23002	SAJO_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
5/2/2024 10:22	14801	TREI_T2	3	3	0	0.33	0.53	0.2	0.33	0.32	0	0	0	0	0	0
5/2/2024 10:22	45902	AUBU_T1	0	2	2	0	0.25	0.25	-0.54	-0.58	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/2/2024 10:22	26001	WDAM_T1	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
5/2/2024 10:23	13701	SCHN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/2/2024 10:23	13704	SCHN_T2	1	1	0	0.4	0.3	-0.1	-0.27	-0.26	0	0	0	0	0	0
5/2/2024 10:23	56801	BENV_T1	14	12	-2	0.51	0.63	0.12	-0.13	-0.12	0	0	0	0	0	0
5/2/2024 10:23	56803	BENV_T1	1	3	2	3.4	0.1	-3.3	0	0	0	0	0	0	0	0
5/2/2024 10:24	15701	TANN_T1	2	2	0	2.8	2.75	-0.05	0	0	0	0	0	0	0	0
5/2/2024 10:24	16301	ALPA_T1	1	2	1	0.2	0.55	0.35	-0.19	-0.17	0	0	0	0	0	0
5/2/2024 10:24	15704	TANN_T1	2	2	0	0.15	0.35	0.2	-1.09	-1.04	0	0	0	0	0	0
5/2/2024 10:26	29402	BELT_T1	5	4	-1	1.98	2.4	0.42	0	0	0	0	0	0	0	0
5/2/2024 10:26	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 10:26	21206	ECAR_T2	1	1	0	7.8	7.7	-0.1	3.39	3.32	0	0	0	0	0	0
5/2/2024 10:26	29401	BELT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/2/2024 10:26	56802	BENV_T2	7	7	0	0.46	0.5	0.04	-1.18	-1.22	0	0	0	0	0	0
5/2/2024 10:27	56801	BENV_T1	14	12	-2	0.51	0.63	0.12	-0.13	-0.12	0	0	0	0	0	0
5/2/2024 10:27	56803	BENV_T1	1	3	2	3.4	0.1	-3.3	0	0	0	0	0	0	0	0
5/2/2024 10:32	46504	LOHA_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
5/2/2024 10:32	11507	FREE_T2	0	0	0	0	0	0	1.17	1.11	0	0	0	0	0	0
5/2/2024 10:32	13103	NHAM_T2	0	0	0	0	0	0	-1.66	-1.66	1	1	0	600	600	0
5/2/2024 10:32	46506	LOHA_T1	0	0	0	0	0	0	-0.65	-0.54	0	0	0	0	0	0
5/2/2024 10:35	43201	MVIL_T2	1	1	0	0.3	0.2	-0.1	-0.33	-0.26	0	0	0	0	0	0
5/2/2024 10:35	43202	MVIL_T2	100	91	-9	0.95	0.57	-0.38	0	0	0	0	0	0	0	0
5/2/2024 10:36	49804	UNIV_T1	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
5/2/2024 10:36	49803	UNIV_T1	3	2	-1	0.53	0.65	0.12	-0.85	-0.84	0	0	0	0	0	0
5/2/2024 10:39	14802	TREI_T2	1	1	0	0.1	0.4	0.3	0.41	0.41	0	0	0	0	0	0
5/2/2024 10:39	11103	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/2/2024 10:39	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/2/2024 10:39	14801	TREI_T2	3	3	0	0.37	0.57	0.2	0	0	0	0	0	0	0	0
5/2/2024 10:39	11102	EGYP_T1	3	3	0	1.3	1.23	-0.07	0	0	0	0	0	0	0	0
5/2/2024 10:40	56802	BENV_T2	5	7	2	0.46	0.74	0.28	-0.61	-0.59	0	0	0	0	0	0
5/2/2024 10:40	15001	BLMO_T1	5	5	0	0.48	0.5	0.02	0	0	0	0	0	0	0	0
5/2/2024 10:41	56802	BENV_T2	5	7	2	0.46	0.74	0.28	-0.61	-0.59	0	0	0	0	0	0
5/2/2024 10:42	10805	CHIH_T2	2	2	0	4.6	4.95	0.35	-0.55	-0.68	1	1	0	600	600	0
5/2/2024 10:42	67502	WEWI_T2	2	2	0	0.8	1.15	0.35	0.09	0.12	0	0	0	0	0	0
5/2/2024 10:42	56802	BENV_T2	5	7	2	0.46	0.74	0.28	-0.61	-0.59	0	0	0	0	0	0
5/2/2024 10:43	28403	HART_T2	0	0	0	0	0	0	-0.93	-0.91	1	1	0	900	900	0
5/2/2024 10:44	56802	BENV_T2	5	7	2	0.46	0.74	0.28	-0.61	-0.59	0	0	0	0	0	0
5/2/2024 10:44	10801	CHIH_T1	5	4	-1	0.92	1.1	0.18	-0.53	-0.53	1	1	0	900	900	0
5/2/2024 10:44	14203	EALL_T1	0	3	3	0	0.23	0.23	0.16	0.05	1	1	0	1200	1200	0
5/2/2024 10:47	54201	PENN_T1	7	8	1	0.8	0.73	-0.07	-0.7	-0.76	0	0	0	0	0	0
5/2/2024 10:47	54203	PENN_T1	17	18	1	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
5/2/2024 10:49	40603	PIGR_T1	0	2	2	0	0.15	0.15	-0.63	-0.63	1	1	0	900	900	0
5/2/2024 10:49	40601	PIGR_T1	118	115	-3	0.32	0.33	0.01	0	0	0	0	0	0	0	0
5/2/2024 10:49	66001	RHEE_T2	0	0	0	0	0	0	-0.97	-0.81	2	2	0	2100	2100	0
5/2/2024 10:51	66001	RHEE_T2	0	0	0	0	0	0	-0.97	-0.81	2	2	0	2100	2100	0
5/2/2024 10:55	56802	BENV_T2	6	8	2	0.52	0.7	0.18	-0.59	-0.54	0	0	0	0	0	0
5/2/2024 10:56	56802	BENV_T2	6	8	2	0.52	0.7	0.18	-1.18	-1.09	0	0	0	0	0	0
5/2/2024 11:00	13503	MCMI_T2	4	8	4	0.55	0.59	0.04	-0.01	-0.01	0	0	0	0	0	0
5/2/2024 11:00	67605	WARW_T1	1	17	16	1.1	0.55	-0.55	-0.43	-0.93	0	0	0	0	0	0
5/2/2024 11:00	67603	WARW_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/2/2024 11:02	58401	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/2/2024 11:02	58402	MORO_T1	0	1	1	0	0.2	0.2	-0.25	-0.23	2	2	0	1500	1500	0
5/2/2024 11:03	64904	MILL_T1	2	2	0	0.25	0.35	0.1	-0.06	-0.17	0	0	0	0	0	0
5/2/2024 11:05	64902	MILL_T2	0	0	0	0	0	0	-0.36	-0.34	1	1	0	900	900	0
5/2/2024 11:05	63202	MGTN_T2	0	0	0	0	0	0	0.48	0.72	1	1	0	900	900	0
5/2/2024 11:09	59101	WALK_T2	0	0	0	0	0	0	1.96	1.89	0	0	0	0	0	0
5/2/2024 11:09	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.93	-0.9	0	0	0	0	0	0
5/2/2024 11:09	67803	WLAN_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
5/2/2024 11:09	59102	WALK_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/2/2024 11:10	59101	WALK_T2	0	0	0	0	0	0	1.96	1.89	0	0	0	0	0	0
5/2/2024 11:10	42802	SELI_T1	0	1	1	0	0.2	0.2	-0.81	-0.86	2	2	0	1800	1800	0
5/2/2024 11:10	59102	WALK_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/2/2024 11:10	24102	EHAZ_T1	0	1	1	0	0	0	-0.13	-0.06	0	0	0	0	0	0
5/2/2024 11:10	24104	EHAZ_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
5/2/2024 11:10	45402	WBLO_T2	1	3	2	0.5	0.3	-0.2	-0.59	-0.6	0	0	0	0	0	0
5/2/2024 11:10	24101	EHAZ_T1	9	14	5	0.32	0.68	0.36	0	0	0	0	0	0	0	0
5/2/2024 11:10	14204	EALL_T2	0	5	5	0	0.36	0.36	-0.08	-0.16	0	0	0	0	0	0
5/2/2024 11:10	24105	EHAZ_T1	4	4	0	6.88	6.65	-0.23	0	0	0	0	0	0	0	0
5/2/2024 11:12	23902	EFMO_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
5/2/2024 11:12	23901	EFMO_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
5/2/2024 11:13	11507	FREE_T2	0	0	0	0	0	0	0	1.66	0	0	0	0	0	0
5/2/2024 11:15	14204	EALL_T2	5	4	-1	0.36	0.23	-0.13	0	0	0	0	0	0	0	0
5/2/2024 11:15	23201	HIRU_T2	89	46	-43	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/2/2024 11:15	23203	HIRU_T2	56	25	-31	0.16	0.18	0.02	0.15	0.16	0	0	0	0	0	0
5/2/2024 11:15	23202	HIRU_T2	65	20	-45	0.17	0.2	0.03	0	0	0	0	0	0	0	0
5/2/2024 11:15	40801	EXCH_T2	2	1	-1	0.3	0.6	0.3	-0.34	-0.26	1	1	0	1200	1200	0
5/2/2024 11:15	14205	EALL_T2	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
5/2/2024 11:15	40802	EXCH_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/2/2024 11:16	23203	HIRU_T2	56	25	-31	0.16	0.18	0.02	0.15	0.16	0	0	0	0	0	0
5/2/2024 11:16	23201	HIRU_T2	89	46	-43	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/2/2024 11:16	23202	HIRU_T2	65	20	-45	0.17	0.2	0.03	0	0	0	0	0	0	0	0
5/2/2024 11:18	58401	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/2/2024 11:18	58402	MORO_T1	0	1	1	0	0.2	0.2	-0.23	-1.15	2	3	1	1500	2400	900
5/2/2024 11:19	13502	MCMI_T1	6	6	0	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
5/2/2024 11:19	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
5/2/2024 11:19	66901	SHIL_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/2/2024 11:19	66903	SHIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/2/2024 11:19	66902	SHIL_T2	4	4	0	0.5	0.5	0	-2.29	-2.24	0	0	0	0	0	0
5/2/2024 11:21	58401	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/2/2024 11:21	58402	MORO_T1	0	1	1	0	0.2	0.2	-0.23	-1.15	2	3	1	1500	2400	900
5/2/2024 11:22	66902	SHIL_T2	4	4	0	0.5	0.5	0	-2.29	-2.24	0	0	0	0	0	0
5/2/2024 11:22	66903	SHIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/2/2024 11:22	66901	SHIL_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/2/2024 11:24	67505	WEWI_T1	3	2	-1	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
5/2/2024 11:24	67501	WEWI_T1	8	5	-3	0.49	0.64	0.15	-0.71	-0.54	1	1	0	600	600	0
5/2/2024 11:25	45902	AUBU_T1	1	2	1	0.4	0.5	0.1	-0.66	-0.56	1	1	0	600	600	0
5/2/2024 11:26	42802	SELI_T1	1	0	-1	0.2	0	-0.2	-0.43	-0.47	1	1	0	900	900	0
5/2/2024 11:26	45902	AUBU_T1	1	2	1	0.4	0.5	0.1	-0.66	-0.56	1	1	0	600	600	0
5/2/2024 11:27	45902	AUBU_T1	1	2	1	0.4	0.5	0.1	-0.66	-0.56	1	1	0	600	600	0
5/2/2024 11:27	42802	SELI_T1	1	0	-1	0.2	0	-0.2	-0.43	-0.47	1	1	0	900	900	0
5/2/2024 11:28	10801	CHIH_T1	4	8	4	0.63	0.68	0.05	-0.46	-0.5	1	1	0	900	900	0
5/2/2024 11:30	45502	DERR_T2	0	1	1	0	0	0	0.34	0.28	1	1	0	300	300	0
5/2/2024 11:30	45501	DERR_T2	3	4	1	0.37	0.43	0.06	0	0	0	0	0	0	0	0
5/2/2024 11:32	55001	NEWP_T1	1	3	2	0.3	0.63	0.33	0	0	0	0	0	0	0	0
5/2/2024 11:32	55002	NEWP_T1	4	10	6	0.7	0.68	-0.02	-0.17	-0.17	0	0	0	0	0	0
5/2/2024 11:33	55002	NEWP_T1	4	10	6	0.7	0.68	-0.02	-0.17	-0.17	0	0	0	0	0	0
5/2/2024 11:33	55001	NEWP_T1	1	3	2	0.3	0.63	0.33	0	0	0	0	0	0	0	0
5/2/2024 11:37	44301	BEAV_T2	1	8	7	0.6	0.45	-0.15	0.79	0.75	2	2	0	1500	1500	0
5/2/2024 11:37	14802	TREI_T2	1	1	0	0.6	1	0.4	0.44	0.53	0	0	0	0	0	0
5/2/2024 11:37	14801	TREI_T2	3	3	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/2/2024 11:39	44301	BEAV_T2	1	8	7	0.6	0.45	-0.15	0.75	0.6	2	2	0	1500	1500	0
5/2/2024 11:40	60902	DONG_T2	0	0	0	0	0	0	1.15	1.15	0	0	0	0	0	0
5/2/2024 11:40	60901	DONG_T2	2	3	1	0.25	0.57	0.32	0	0	0	0	0	0	0	0
5/2/2024 11:40	60904	DONG_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/2/2024 11:47	28403	HART_T2	0	0	0	0	0	0	-0.89	-0.87	1	1	0	900	900	0
5/2/2024 11:49	16401	MOPO_T1	1	4	3	0.2	0.43	0.23	0	0	0	0	0	0	0	0
5/2/2024 11:49	43202	MVIL_T2	91	101	10	0.59	0.87	0.28	-0.53	-0.58	0	0	0	0	0	0
5/2/2024 11:49	43201	MVIL_T2	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/2/2024 11:49	16402	MOPO_T1	1	5	4	0.2	0.74	0.54	0.16	0.19	0	0	0	0	0	0
5/2/2024 11:51	51002	NHAR_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/2/2024 11:51	51004	NHAR_T1	6	13	7	1.18	0.76	-0.42	-0.11	-0.11	0	0	0	0	0	0
5/2/2024 11:52	13901	SEID_T1	0	0	0	0	0	0	0.26	0.49	0	0	0	0	0	0
5/2/2024 11:52	13905	SEID_T1	2	6	4	0.45	0.63	0.18	0	0	0	0	0	0	0	0
5/2/2024 11:52	58401	MORO_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/2/2024 11:52	58402	MORO_T1	0	0	0	0	0	0	-0.73	-0.27	2	2	0	1500	1500	0
5/2/2024 11:55	51102	CARL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/2/2024 11:55	51101	CARL_T1	0	0	0	0	0	0	-0.63	-0.6	1	1	0	600	600	0
5/2/2024 11:55	51109	CARL_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
5/2/2024 11:57	67503	WEWI_T2	0	0	0	0	0	0	0.73	0.81	0	0	0	0	0	0
5/2/2024 11:57	67502	WEWI_T2	2	3	1	0.85	0.83	-0.02	0	0	0	0	0	0	0	0
5/2/2024 11:59	23902	EFMO_T2	2	3	1	0.3	0.3	0	0	0	0	0	0	0	0	0
5/2/2024 11:59	23901	EFMO_T2	1	5	4	0.5	0.38	-0.12	0	0	0	0	0	0	0	0
5/2/2024 12:05	44601	SALE_T2	0	0	0	0	0	0	0.25	1.01	1	2	1	600	900	300
5/2/2024 12:12	53502	EVIL_T2	0	0	0	0	0	0	-0.11	-0.02	2	2	0	1200	1200	0
5/2/2024 12:12	46004	BERW_T2	2	4	2	0.5	0.38	-0.12	0.31	0.41	0	0	0	0	0	0
5/2/2024 12:12	53501	EVIL_T2	5	7	2	0.38	0.61	0.23	0	0	0	0	0	0	0	0
5/2/2024 12:17	53901	HALI_T2	8	7	-1	0.61	0.69	0.08	0	0	0	0	0	0	0	0
5/2/2024 12:17	53901	HALI_T2	2	1	-1	0.1	0.1	0	-0.88	-0.88	0	0	0	0	0	0
5/2/2024 12:17	51202	MTON_T2	2	2	0	0.75	0.9	0.15	0.33	0.32	0	0	0	0	0	0
5/2/2024 12:17	53902	HALI_T2	3	3	0	2.03	1.8	-0.23	0	0	0	0	0	0	0	0
5/2/2024 12:18	13502	MCMI_T1	8	6	-2	0.49	0.67	0.18	0	0	0	0	0	0	0	0
5/2/2024 12:18	56501	ROCK_T2	1	0	-1	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/2/2024 12:18	13501	MCMI_T1	4	3	-1	0.33	0.33	0	0.12	0.11	0	0	0	0	0	0
5/2/2024 12:18	44202	POIN_T2	0	0	0	0	0	0	-0.52	-0.62	1	1	0	1200	1200	0
5/2/2024 12:19	17002	RIRO_T2	39	19	-20	0.29	0.42	0.13	0.79	0.85	0	0	0	0	0	0
5/2/2024 12:19	65503	MOJO_T2	5	2	-3	0.62	1.1	0.48	-0.51	-0.45	1	1	0	900	900	0
5/2/2024 12:19	47403	PENS_T1	9	7	-2	0.89	0.8	-0.09	0	0	0	0	0	0	0	0
5/2/2024 12:19	47402	PENS_T1	4	3	-1	0.88	0.77	-0.11	0	0	0	0	0	0	0	0
5/2/2024 12:19	47401	PENS_T1	3	5	2	1.33	1.02	-0.31	1.43	1.49	0	0	0	0	0	0
5/2/2024 12:20	46301	ROHR_T1	129	75	-54	0.26	0.27	0.01	0	0	0	0	0	0	0	0
5/2/2024 12:20	46302	ROHR_T1	14	11	-3	1.01	1.18	0.17	0.17	0.18	0	0	0	0	0	0
5/2/2024 12:22	47402	PENS_T1	4	3	-1	0.88	0.77	-0.11	0	0	0	0	0	0	0	0
5/2/2024 12:22	47401	PENS_T1	3	5	2	1.33	1.02	-0.31	1.43	1.49	0	0	0	0	0	0
5/2/2024 12:22	64101	REFR_T1	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
5/2/2024 12:22	47403	PENS_T1	9	7	-2	0.89	0.8	-0.09	0	0	0	0	0	0	0	0
5/2/2024 12:22	46302	ROHR_T1	14	11	-3	1.01	1.18	0.17	0	0	0	0	0	0	0	0
5/2/2024 12:22	46301	ROHR_T1	129	75	-54	0.26	0.27	0.01	0.24	0.25	0	0	0	0	0	0
5/2/2024 12:24	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
5/2/2024 12:24	17002	RIRO_T2	39	19	-20	0.29	0.42	0.13	0.85	0.78	0	0	0	0	0	0
5/2/2024 12:31	25503	MADI_T1	12	4	-8	0.33	0.58	0.25	-0.96	-0.99	0	0	0	0	0	0
5/2/2024 12:31	25501	MADI_T1	2	2	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
5/2/2024 12:31	44504	HAMI_T2	0	0	0	0	0	0	-0.85	-0.77	0	0	0	0	0	0
5/2/2024 12:31	44502	HAMI_T2	1	1	0	2.2	1.9	-0.3	0	0	0	0	0	0	0	0
5/2/2024 12:31	44505	HAMI_T2	3	3	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/2/2024 12:31	25502	MADI_T1	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
5/2/2024 12:34	47402	PENS_T1	3	3	0	0.77	0.6	-0.17	0	0	0	0	0	0	0	0
5/2/2024 12:34	47401	PENS_T1	4	26	22	1.08	0.52	-0.56	1.49	1.52	0	0	0	0	0	0
5/2/2024 12:34	47403	PENS_T1	7	1	-6	0.76	2.3	1.54	0	0	0	0	0	0	0	0
5/2/2024 12:35	64701	LITI_T1	0	0	0	0	0	0	0.65	0.72	0	0	0	0	0	0
5/2/2024 12:37	47403	PENS_T1	7	1	-6	0.76	2.3	1.54	0	0	0	0	0	0	0	0
5/2/2024 12:37	47401	PENS_T1	4	26	22	1.08	0.52	-0.56	1.49	1.52	0	0	0	0	0	0
5/2/2024 12:37	47402	PENS_T1	3	3	0	0.77	0.6	-0.17	0	0	0	0	0	0	0	0
5/2/2024 12:39	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 12:39	43301	WATS_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/2/2024 12:40	11102	EGYP_T1	0	3	3	0	1.4	1.4	0	0	0	0	0	0	0	0
5/2/2024 12:40	11101	EGYP_T1	0	6	6	0	0.27	0.27	0	0	2	2	0	2400	2400	0
5/2/2024 12:40	11103	EGYP_T1	5	4	-1	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
5/2/2024 12:43	41602	CLEV_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/2/2024 12:43	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 12:47	55001	NEWP_T1	9	8	-1	0.51	0.51	0	-0.54	-0.52	1	1	0	600	600	0
5/2/2024 12:47	55002	NEWP_T1	5	5	0	0.4	0.44	0.04	0	0	0	0	0	0	0	0
5/2/2024 12:48	41205	KENM_T2	0	0	0	0	0	0	-0.81	-0.82	1	1	0	600	600	0
5/2/2024 12:48	55002	NEWP_T1	5	5	0	0.4	0.44	0.04	0	0	0	0	0	0	0	0
5/2/2024 12:48	55001	NEWP_T1	9	8	-1	0.51	0.51	0	-0.54	-0.52	1	1	0	600	600	0
5/2/2024 12:50	13302	ORVI_T2	1	1	0	0.8	0.7	-0.1	1.78	1.72	0	0	0	0	0	0
5/2/2024 12:50	55001	NEWP_T1	9	8	-1	0.51	0.51	0	-0.54	-0.52	1	1	0	600	600	0
5/2/2024 12:50	55002	NEWP_T1	5	5	0	0.4	0.44	0.04	0	0	0	0	0	0	0	0
5/2/2024 12:51	55001	NEWP_T1	9	8	-1	0.51	0.51	0	0	0	0	0	0	0	0	0
5/2/2024 12:51	55002	NEWP_T1	5	5	0	0.4	0.44	0.04	-0.28	-0.3	0	0	0	0	0	0
5/2/2024 12:53	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.07	0	0	0	0	0	0
5/2/2024 12:56	57006	WHHI_T2	2	1	-1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/2/2024 12:56	67702	WERN_T2	1	0	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/2/2024 12:56	57003	WHHI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/2/2024 12:56	57002	WHHI_T2	0	0	0	0	0	0	-0.9	-0.86	1	1	0	1200	1200	0
5/2/2024 12:56	67703	WERN_T2	1	1	0	0.3	0.3	0	0.03	0.04	1	1	0	900	900	0
5/2/2024 13:04	44601	SALE_T2	0	0	0	0	0	0	1.15	1.05	1	2	1	600	900	300
5/2/2024 13:06	41902	REED_T1	1	1	0	0.4	0.4	0	1.24	1.28	0	0	0	0	0	0
5/2/2024 13:10	41902	REED_T1	1	1	0	0.4	0.4	0	1.28	1.2	0	0	0	0	0	0
5/2/2024 13:13	44301	BEAV_T2	11	9	-2	0.45	0.5	0.05	0.04	0.17	2	2	0	1500	1500	0
5/2/2024 13:22	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/2/2024 13:22	41902	REED_T1	1	1	0	0.2	0.4	0.2	1.28	1.2	0	0	0	0	0	0
5/2/2024 13:22	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/2/2024 13:22	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
5/2/2024 13:26	41902	REED_T1	1	1	0	0.2	0.4	0.2	1.2	1.3	0	0	0	0	0	0
5/2/2024 13:37	13606	RICH_T2	1	1	0	7.5	7.6	0.1	1.44	1.37	0	0	0	0	0	0
5/2/2024 13:37	64702	LITI_T2	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
5/2/2024 13:38	58402	MORO_T1	0	0	0	0	0	0	-1.01	-0.97	2	3	1	1500	2400	900
5/2/2024 13:42	46005	BERW_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
5/2/2024 13:42	46001	BERW_T1	0	0	0	0	0	0	0.05	0.1	0	0	0	0	0	0
5/2/2024 13:43	46005	BERW_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
5/2/2024 13:43	46001	BERW_T1	0	0	0	0	0	0	0.1	0.2	0	0	0	0	0	0
5/2/2024 13:45	15001	BLMO_T1	4	5	1	0.3	0.32	0.02	0	0	0	0	0	0	0	0
5/2/2024 13:48	46001	BERW_T1	0	0	0	0	0	0	0.05	0.1	0	0	0	0	0	0
5/2/2024 13:48	46005	BERW_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/2/2024 13:49	13606	RICH_T2	1	1	0	7.6	7.5	-0.1	1.37	1.5	0	0	0	0	0	0
5/2/2024 13:53	41902	REED_T1	0	1	1	0	0	0	1.35	1.39	0	0	0	0	0	0
5/2/2024 13:53	64702	LITI_T2	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
5/2/2024 13:54	14702	TREX_T2	0	0	0	0	0	0	1.28	1.3	0	0	0	0	0	0
5/2/2024 13:55	46203	DANV_T2	6	182	176	0.23	0.71	0.48	-0.77	-0.77	0	0	0	0	0	0
5/2/2024 13:55	46201	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/2/2024 13:55	46206	DANV_T2	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
5/2/2024 13:56	46201	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/2/2024 13:56	46203	DANV_T2	6	182	176	0.23	0.71	0.48	-0.77	-0.77	0	0	0	0	0	0
5/2/2024 13:56	46206	DANV_T2	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
5/2/2024 13:58	41902	REED_T1	0	1	1	0	0	0	1.35	1.39	0	0	0	0	0	0
5/2/2024 14:02	39601	LNFD_T1	1	0	-1	0.1	0	-0.1	0	0	1	0	-1	900	0	-900
5/2/2024 14:02	64702	LITI_T2	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
5/2/2024 14:04	46005	BERW_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
5/2/2024 14:04	46001	BERW_T1	0	0	0	0	0	0	0.1	-0.12	0	0	0	0	0	0
5/2/2024 14:09	46005	BERW_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
5/2/2024 14:09	46001	BERW_T1	0	0	0	0	0	0	-0.12	0.04	0	0	0	0	0	0
5/2/2024 14:12	56802	BENV_T2	4	4	0	1.03	0.95	-0.08	-0.97	-1.03	0	0	0	0	0	0
5/2/2024 14:13	20401	ASHF_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/2/2024 14:13	20402	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/2/2024 14:13	20403	ASHF_T2	11	9	-2	0.6	0.66	0.06	1.56	1.56	0	0	0	0	0	0
5/2/2024 14:17	67501	WEWI_T1	1	2	1	0.5	0.3	-0.2	-0.59	-0.6	1	1	0	600	600	0
5/2/2024 14:19	46301	ROHR_T1	76	65	-11	0.29	0.3	0.01	0	0	0	0	0	0	0	0
5/2/2024 14:19	46302	ROHR_T1	11	0	-11	1.15	1.26	0.11	0.2	0.19	0	0	0	0	0	0
5/2/2024 14:25	44302	BEAV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/2/2024 14:25	44301	BEAV_T2	9	16	7	0.33	0.38	0.05	-0.83	0.38	2	1	-1	1500	600	-900
5/2/2024 14:26	44302	BEAV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/2/2024 14:26	46206	DANV_T2	1	1	0	1	1	0	2.54	2.5	1	1	0	1200	1200	0
5/2/2024 14:26	46203	DANV_T2	178	179	1	0.69	0.72	0.03	0	0	0	0	0	0	0	0
5/2/2024 14:26	46201	DANV_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/2/2024 14:26	44301	BEAV_T2	9	16	7	0.33	0.38	0.05	-0.83	0.38	2	1	-1	1500	600	-900
5/2/2024 14:40	45902	AUBU_T1	1	1	0	0.6	0.5	-0.1	-0.6	-0.66	1	1	0	600	600	0
5/2/2024 14:47	59001	MIFF_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
5/2/2024 14:47	59003	MIFF_T1	0	1	1	0	0.4	0.4	-0.01	0.07	0	0	0	0	0	0
5/2/2024 14:47	59002	MIFF_T1	0	5	5	0	0.64	0.64	0	0	0	0	0	0	0	0
5/2/2024 14:51	46506	LOHA_T1	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
5/2/2024 15:04	21206	ECAR_T2	1	1	0	7.6	8	0.4	1.59	1.49	0	0	0	0	0	0
5/2/2024 15:04	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 15:05	46302	ROHR_T1	10	9	-1	1.17	1.18	0.01	0.22	0.23	0	0	0	0	0	0
5/2/2024 15:05	46301	ROHR_T1	53	59	6	0.28	0.27	-0.01	0.25	0.26	0	0	0	0	0	0
5/2/2024 15:07	56501	ROCK_T2	0	2	2	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
5/2/2024 15:09	45901	AUBU_T1	0	0	0	0	0	0	2.41	2.42	0	0	0	0	0	0
5/2/2024 15:09	45902	AUBU_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/2/2024 15:12	45901	AUBU_T1	0	0	0	0	0	0	2.41	2.42	0	0	0	0	0	0
5/2/2024 15:12	56501	ROCK_T2	0	2	2	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
5/2/2024 15:12	45902	AUBU_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/2/2024 15:13	45902	AUBU_T1	1	0	-1	0.5	0	-0.5	-0.53	-0.5	1	1	0	600	600	0
5/2/2024 15:21	42201	SHEN_T2	4	2	-2	1.18	1.25	0.07	0.2	0.28	1	1	0	600	600	0
5/2/2024 15:23	11101	EGYP_T1	3	6	3	0.6	0.7	0.1	0	0	1	1	0	1200	1200	0
5/2/2024 15:23	11102	EGYP_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
5/2/2024 15:25	42201	SHEN_T2	4	2	-2	1.18	1.25	0.07	0.28	0.21	1	1	0	600	600	0
5/2/2024 15:26	67702	WERN_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
5/2/2024 15:33	46504	LOHA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/2/2024 15:33	46506	LOHA_T1	0	1	1	0	0.1	0.1	-0.35	-0.35	0	0	0	0	0	0
5/2/2024 15:33	59001	MIFF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/2/2024 15:33	59003	MIFF_T1	1	2	1	0.6	0.2	-0.4	-0.97	-0.98	0	0	0	0	0	0
5/2/2024 15:33	59002	MIFF_T1	5	5	0	0.62	0.74	0.12	0	0	0	0	0	0	0	0
5/2/2024 15:36	47401	PENS_T1	6	10	4	0.88	0.64	-0.24	0.4	0.33	0	0	0	0	0	0
5/2/2024 15:36	47402	PENS_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/2/2024 15:36	47403	PENS_T1	2	1	-1	1.4	0.7	-0.7	0	0	0	0	0	0	0	0
5/2/2024 15:37	52102	MEIS_T1	376	1	-375	8.72	1.2	-7.52	0	0	0	0	0	0	0	0
5/2/2024 15:37	52101	MEIS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/2/2024 15:38	47402	PENS_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/2/2024 15:38	47401	PENS_T1	6	10	4	0.88	0.64	-0.24	0.4	0.33	0	0	0	0	0	0
5/2/2024 15:38	47403	PENS_T1	2	1	-1	1.4	0.7	-0.7	0	0	0	0	0	0	0	0
5/2/2024 15:40	10805	CHHI_T2	1	5	4	8.4	8.7	0.3	-1.43	-1.55	2	2	0	1200	1200	0
5/2/2024 15:45	56802	BENV_T2	2	2	0	0.75	0.65	-0.1	-1.01	-0.99	0	0	0	0	0	0
5/2/2024 15:46	41502	FAIR_T2	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
5/2/2024 15:49	52002	LING_T2	1	2	1	0.2	0.1	-0.1	0.69	0.65	0	0	0	0	0	0
5/2/2024 15:50	52002	LING_T2	1	2	1	0.2	0.1	-0.1	0.69	0.65	0	0	0	0	0	0
5/2/2024 15:51	29401	BELT_T1	4	1	-3	0.38	0.6	0.22	0	0	0	0	0	0	0	0
5/2/2024 15:51	29402	BELT_T1	51	7	-44	0.32	0.37	0.05	0	0	0	0	0	0	0	0
5/2/2024 15:52	47402	PENS_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/2/2024 15:52	47401	PENS_T1	10	6	-4	0.64	0.8	0.16	0.33	0.29	0	0	0	0	0	0
5/2/2024 15:52	47403	PENS_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/2/2024 15:57	42503	ALTA_T2	1	0	-1	0.1	0	-0.1	-0.6	-0.58	0	0	0	0	0	0
5/2/2024 15:57	42501	ALTA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/2/2024 16:00	12701	MACU_T1	0	2	2	0	0	0	0.2	0.2	0	0	0	0	0	0
5/2/2024 16:02	12701	MACU_T1	0	2	2	0	0	0	0.2	0.2	0	0	0	0	0	0
5/2/2024 16:06	40101	HUNT_T2	1	2	1	0.1	0	-0.1	-0.24	-0.22	0	0	0	0	0	0
5/2/2024 16:11	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 16:24	20401	ASHF_T2	4	4	0	1.2	0.83	-0.37	0	0	0	0	0	0	0	0
5/2/2024 16:24	20403	ASHF_T2	2	1	-1	0.45	0.2	-0.25	0.65	0.58	0	0	0	0	0	0
5/2/2024 16:40	20401	ASHF_T2	4	4	0	0.83	0.55	-0.28	0	0	0	0	0	0	0	0
5/2/2024 16:40	51107	CARL_T1	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
5/2/2024 16:40	20403	ASHF_T2	1	0	-1	0.2	0	-0.2	0.58	0.55	0	0	0	0	0	0
5/2/2024 16:43	45901	AUBU_T1	0	0	0	0	0	0	2.41	2.37	0	0	0	0	0	0
5/2/2024 16:43	45902	AUBU_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 16:44	56801	BENV_T1	2	3	1	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
5/2/2024 16:44	56803	BENV_T1	5	12	7	0.25	0.6	0.35	-0.43	-0.56	1	1	0	600	600	0
5/2/2024 16:45	51402	LYKE_T1	0	0	0	0	0	0	-1.93	-1.92	2	2	0	1200	1200	0
5/2/2024 16:46	51401	LYKE_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
5/2/2024 16:56	51401	LYKE_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
5/2/2024 17:00	10805	CHHI_T2	1	7	6	8.6	8.7	0.1	-0.9	-0.88	1	1	0	600	600	0
5/2/2024 17:04	64702	LITI_T2	0	0	0	0	0	0	-0.07	-0.14	0	0	0	0	0	0
5/2/2024 17:05	53903	HALI_T2	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
5/2/2024 17:05	53902	HALI_T2	1	1	0	4	4.5	0.5	0	0	0	0	0	0	0	0
5/2/2024 17:05	53901	HALI_T2	0	0	0	0	0	0	-1.88	-1.19	0	0	0	0	0	0
5/2/2024 17:05	66503	SMAN_T2	0	0	0	0	0	0	0.91	0.96	0	0	0	0	0	0
5/2/2024 17:05	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 17:06	56501	ROCK_T2	1	1	0	0.3	0.7	0.4	-0.01	-0.01	0	0	0	0	0	0
5/2/2024 17:09	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 17:11	56501	ROCK_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
5/2/2024 17:11	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 17:13	11102	EGYP_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
5/2/2024 17:13	46001	BERW_T1	0	0	0	0	0	0	0.77	0.78	0	0	0	0	0	0
5/2/2024 17:13	11104	EGYP_T1	5	10	5	0.42	0.1	-0.32	0	0	0	0	0	0	0	0
5/2/2024 17:13	11103	EGYP_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
5/2/2024 17:18	59003	MIFF_T1	1	0	-1	0.9	0	-0.9	-0.12	-0.09	0	0	0	0	0	0
5/2/2024 17:18	59002	MIFF_T1	5	3	-2	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
5/2/2024 17:20	43202	MVIL_T2	1	1	0	0.7	0.3	-0.4	-0.63	-0.64	0	0	0	0	0	0
5/2/2024 17:38	56501	ROCK_T2	1	1	0	0.5	0.6	0.1	-0.01	-0.01	0	0	0	0	0	0
5/2/2024 17:40	11102	EGYP_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/2/2024 17:40	11103	EGYP_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
5/2/2024 17:40	11101	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/2/2024 17:40	11104	EGYP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/2/2024 17:45	46101	MACI_T2	0	0	0	0	0	0	-0.55	0.67	1	0	-1	1200	0	-1200
5/2/2024 18:02	41801	GOCI_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/2/2024 18:10	65702	RVIL_T2	0	0	0	0	0	0	-1.12	-1.15	1	1	0	600	600	0
5/2/2024 18:13	61101	BERK_T5	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
5/2/2024 18:24	49804	UNIV_T1	1	0	-1	0.3	0	-0.3	1.13	1.11	0	0	0	0	0	0
5/2/2024 18:32	11103	EGYP_T1	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
5/2/2024 18:32	11102	EGYP_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/2/2024 18:32	11104	EGYP_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/2/2024 18:35	12601	MACA_T1	0	0	0	0	0	0	1.08	1.07	0	0	0	0	0	0
5/2/2024 18:37	64701	LITI_T1	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
5/2/2024 18:49	52501	PROG_T1	0	0	0	0	0	0	-0.49	-0.5	1	1	0	300	300	0
5/2/2024 18:50	52503	PROG_T2	0	0	0	0	0	0	0.01	-0.05	1	1	0	900	900	0
5/2/2024 18:52	52501	PROG_T1	0	0	0	0	0	0	-0.49	-0.5	1	1	0	300	300	0
5/2/2024 18:53	52501	PROG_T1	0	0	0	0	0	0	-0.5	-0.5	1	1	0	300	300	0
5/2/2024 18:58	29402	BELT_T1	1	1	0	8.8	9.3	0.5	0	0	0	0	0	0	0	0
5/2/2024 18:58	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 19:03	59003	MIFF_T1	0	0	0	0	0	0	0.03	0.11	0	0	0	0	0	0
5/2/2024 19:03	59002	MIFF_T1	4	5	1	0.18	0.28	0.1	0	0	0	0	0	0	0	0
5/2/2024 19:05	50105	HARR_T3	6	6	0	6.08	5.75	-0.33	0	0	0	0	0	0	0	0
5/2/2024 19:05	50107	HARR_T3	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
5/2/2024 19:05	50201	HARR_T3	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/2/2024 19:07	65901	SAKR_T2	1	1	0	8.4	8.9	0.5	0	0	0	0	0	0	0	0
5/2/2024 19:07	65903	SAKR_T2	1	0	-1	0.3	0	-0.3	-0.63	-0.67	3	3	0	2100	2100	0
5/2/2024 19:20	48302	ORWI_T2	2	2	0	0.55	0.95	0.4	0.27	0.2	0	0	0	0	0	0
5/2/2024 19:21	15204	SFAR_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
5/2/2024 19:24	15204	SFAR_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
5/2/2024 19:27	62102	ELAN_T1	0	0	0	0	0	0	0.64	0.52	0	0	0	0	0	0
5/2/2024 19:30	54505	ENOL_T2	0	1	1	0	0.2	0.2	-1.45	-1.5	1	1	0	600	600	0
5/2/2024 19:30	62102	ELAN_T1	0	0	0	0	0	0	0.64	0.52	0	0	0	0	0	0
5/2/2024 19:37	14401	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 19:37	14404	SSLA_T1	1	1	0	4.6	5	0.4	0.12	0.1	0	0	0	0	0	0
5/2/2024 19:42	54503	ENOL_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/2/2024 19:42	54505	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/2/2024 19:42	61102	BERK_T5	0	0	0	0	0	0	0.34	0.44	1	1	0	300	300	0
5/2/2024 20:13	67703	WERN_T2	0	0	0	0	0	0	-0.43	-0.48	1	1	0	900	900	0
5/2/2024 20:20	42002	MNVL_T2	1	1	0	2.2	2	-0.2	0	0	0	0	0	0	0	0
5/2/2024 20:20	42001	MNVL_T2	0	0	0	0	0	0	0.26	0.3	0	0	0	0	0	0
5/2/2024 20:23	26001	WDAM_T1	0	0	0	0	0	0	-0.8	-0.78	0	0	0	0	0	0
5/2/2024 20:23	26002	WDAM_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
5/2/2024 20:28	50201	HARR_T3	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
5/2/2024 20:28	50103	HARR_T3	2	0	-2	0.15	0	-0.15	-0.27	-0.26	1	1	0	1200	1200	0
5/2/2024 20:28	50105	HARR_T3	6	0	-6	5.72	5.77	0.05	0	0	0	0	0	0	0	0
5/2/2024 20:45	14203	EALL_T1	0	0	0	0	0	0	-0.03	0.04	1	1	0	1200	1200	0
5/2/2024 20:54	66001	RHEE_T2	0	0	0	0	0	0	-0.19	-0.22	1	1	0	900	900	0
5/2/2024 21:13	45402	WBLO_T2	1	2	1	1.2	0.8	-0.4	-1.61	-1.62	1	1	0	900	900	0
5/2/2024 21:16	11507	FREE_T2	0	0	0	0	0	0	0.89	0.91	0	0	0	0	0	0
5/2/2024 21:20	66901	SHIL_T2	12	46	34	0.1	0.12	0.02	0	0	0	0	0	0	0	0
5/2/2024 21:20	66902	SHIL_T2	0	5	5	0	0.12	0.12	-1.18	-1.26	0	0	0	0	0	0
5/2/2024 21:20	66903	SHIL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/2/2024 21:27	66903	SHIL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/2/2024 21:27	66901	SHIL_T2	12	46	34	0.1	0.12	0.02	0	0	0	0	0	0	0	0
5/2/2024 21:27	66902	SHIL_T2	0	5	5	0	0.12	0.12	-1.26	-1.25	0	0	0	0	0	0
5/2/2024 21:31	42802	SELI_T1	0	1	1	0	0.1	0.1	-1.11	-1.12	0	0	0	0	0	0
5/2/2024 21:32	42802	SELI_T1	0	1	1	0	0.1	0.1	-1.11	-1.12	0	0	0	0	0	0
5/2/2024 21:34	45502	DERR_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
5/2/2024 21:57	56501	ROCK_T2	6	2	-4	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
5/2/2024 21:57	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 21:58	54201	PENN_T1	33	69	36	0.49	0.37	-0.12	-0.74	-0.78	0	0	0	0	0	0
5/2/2024 21:58	17002	RIRO_T2	0	0	0	0	0	0	0.42	0.38	0	0	0	0	0	0
5/2/2024 21:58	54205	PENN_T1	0	50	50	0	0.1	0.1	0	0	0	0	0	0	0	0
5/2/2024 21:58	15704	TANN_T1	29	1	-28	0.13	0.2	0.07	-1.13	-1.15	0	0	0	0	0	0
5/2/2024 21:58	54203	PENN_T1	19	25	6	1.17	1.01	-0.16	0	0	0	0	0	0	0	0
5/2/2024 21:58	15701	TANN_T1	3	12	9	1.53	0.64	-0.89	0	0	0	0	0	0	0	0
5/2/2024 21:59	61101	BERK_T5	0	0	0	0	0	0	-0.69	-0.73	0	0	0	0	0	0
5/2/2024 21:59	23203	HIRU_T2	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
5/2/2024 22:00	13302	ORVI_T2	0	0	0	0	0	0	1.65	0.17	0	0	0	0	0	0
5/2/2024 22:01	25402	LAHA_T2	0	1	1	0	0	0	-0.9	-0.9	0	0	0	0	0	0
5/2/2024 22:01	13501	MCMI_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
5/2/2024 22:01	20401	ASHF_T2	6	0	-6	0.48	0	-0.48	-0.25	-0.25	0	0	0	0	0	0
5/2/2024 22:01	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/2/2024 22:01	13502	MCMI_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/2/2024 22:01	25404	LAHA_T2	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
5/2/2024 22:01	50105	HARR_T3	6	6	0	5.65	5.83	0.18	0	0	0	0	0	0	0	0
5/2/2024 22:01	65502	MOJO_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/2/2024 22:01	50201	HARR_T3	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
5/2/2024 22:01	29402	BELT_T1	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
5/2/2024 22:01	50107	HARR_T3	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
5/2/2024 22:01	20403	ASHF_T2	36	21	-15	0.82	0.27	-0.55	0	0	0	0	0	0	0	0
5/2/2024 22:01	65503	MOJO_T2	0	0	0	0	0	0	0.01	-0.04	0	0	0	0	0	0
5/2/2024 22:01	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/2/2024 22:02	64701	LITI_T1	0	0	0	0	0	0	0.4	0.27	0	0	0	0	0	0
5/2/2024 22:03	62102	ELAN_T1	0	0	0	0	0	0	1.11	1	0	0	0	0	0	0
5/2/2024 22:03	65001	NEFF_T2	3	0	-3	0.1	0	-0.1	-0.73	-0.79	1	1	0	1200	1200	0
5/2/2024 22:03	65003	NEFF_T2	40	4	-36	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
5/2/2024 22:03	41802	GOCI_T2	12	0	-12	0.17	0	-0.17	0	0	0	0	0	0	0	0
5/2/2024 22:03	41801	GOCI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/2/2024 22:04	11101	EGYP_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/2/2024 22:04	65502	MOJO_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/2/2024 22:04	51002	NHAR_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
5/2/2024 22:04	51004	NHAR_T1	12	3	-9	0.73	2.1	1.37	-0.15	-0.2	0	0	0	0	0	0
5/2/2024 22:04	67804	WLAN_T1	0	0	0	0	0	0	-0.81	-0.86	0	0	0	0	0	0
5/2/2024 22:04	11103	EGYP_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
5/2/2024 22:04	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/2/2024 22:04	52503	PROG_T2	0	0	0	0	0	0	-0.47	-0.5	1	1	0	900	900	0
5/2/2024 22:04	51003	NHAR_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/2/2024 22:04	65503	MOJO_T2	0	0	0	0	0	0	0.01	-0.04	0	0	0	0	0	0
5/2/2024 22:04	67805	WLAN_T1	6	204	198	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/2/2024 22:04	51202	MTON_T2	0	0	0	0	0	0	0.35	0.29	0	0	0	0	0	0
5/2/2024 22:04	11104	EGYP_T1	2	0	-2	0.8	0	-0.8	0	0	0	0	0	0	0	0
5/2/2024 22:05	56501	ROCK_T2	2	0	-2	0.3	0	-0.3	-0.01	-0.01	0	0	0	0	0	0
5/2/2024 22:05	11101	EGYP_T1	1	1	0	0.5	0	-0.5	0	0	1	1	0	1200	1200	0
5/2/2024 22:05	24102	EHAZ_T1	0	0	0	0	0	0	0.25	0.31	0	0	0	0	0	0
5/2/2024 22:05	51102	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/2/2024 22:05	13901	SEID_T1	0	0	0	0	0	0	0.46	0.42	0	0	0	0	0	0
5/2/2024 22:05	24101	EHAZ_T1	5	2	-3	0.36	0	-0.36	0	0	0	0	0	0	0	0
5/2/2024 22:05	24105	EHAZ_T1	4	4	0	6.28	6.05	-0.23	0	0	0	0	0	0	0	0
5/2/2024 22:05	51101	CARL_T1	0	0	0	0	0	0	-1.2	-1.3	1	1	0	600	600	0
5/2/2024 22:05	29402	BELT_T1	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
5/2/2024 22:05	11104	EGYP_T1	2	0	-2	0.8	0	-0.8	0	0	0	0	0	0	0	0
5/2/2024 22:05	13303	ORVI_T1	0	0	0	0	0	0	1.11	-0.19	0	0	0	0	0	0
5/2/2024 22:05	40603	PIGR_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
5/2/2024 22:05	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/2/2024 22:05	64702	LITI_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
5/2/2024 22:05	11103	EGYP_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
5/2/2024 22:05	40601	PIGR_T1	37	0	-37	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/2/2024 22:05	52002	LING_T2	0	0	0	0	0	0	0.33	0.28	0	0	0	0	0	0
5/2/2024 22:06	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/2/2024 22:06	13501	MCMI_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
5/2/2024 22:06	56801	BENV_T1	12	7	-5	0.98	0.63	-0.35	-0.7	-0.76	1	1	0	600	600	0
5/2/2024 22:06	56803	BENV_T1	3	0	-3	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/2/2024 22:06	13502	MCMI_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/2/2024 22:06	45902	AUBU_T1	0	0	0	0	0	0	-1.01	-1.06	1	1	0	600	600	0
5/2/2024 22:06	55001	NEWP_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
5/2/2024 22:06	55002	NEWP_T1	5	5	0	1.08	0.66	-0.42	0	0	0	0	0	0	0	0
5/2/2024 22:07	45901	AUBU_T1	0	0	0	0	0	0	2.14	2.17	0	0	0	0	0	0
5/2/2024 22:07	16402	MOPO_T1	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
5/2/2024 22:07	46506	LOHA_T1	1	1	0	0.4	0.7	0.3	-0.36	-0.38	0	0	0	0	0	0
5/2/2024 22:07	67602	WARW_T2	0	0	0	0	0	0	0.06	0.11	1	1	0	1200	1200	0
5/2/2024 22:07	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 22:07	46504	LOHA_T1	45	52	7	0.41	0.51	0.1	0	0	0	0	0	0	0	0
5/2/2024 22:07	23203	HIRU_T2	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
5/2/2024 22:08	46301	ROHR_T1	135	177	42	0.24	0.27	0.03	0.19	0.19	0	0	0	0	0	0
5/2/2024 22:08	48302	ORWI_T2	2	2	0	1.1	1.3	0.2	-0.02	-0.03	0	0	0	0	0	0
5/2/2024 22:08	58402	MORO_T1	0	0	0	0	0	0	-0.47	-0.55	2	2	0	1500	1500	0
5/2/2024 22:08	56801	BENV_T1	12	7	-5	0.98	0.63	-0.35	0	0	0	0	0	0	0	0
5/2/2024 22:08	10805	CHHI_T2	1	1	0	7.7	7.3	-0.4	-1.18	-1.17	1	1	0	600	600	0
5/2/2024 22:08	56803	BENV_T1	3	0	-3	0.6	0	-0.6	-0.02	-0.07	0	0	0	0	0	0
5/2/2024 22:08	47401	PENS_T1	0	0	0	0	0	0	0.02	-0.04	0	0	0	0	0	0
5/2/2024 22:08	46302	ROHR_T1	5	13	8	2.08	1.08	-1	0	0	0	0	0	0	0	0
5/2/2024 22:08	55002	NEWP_T1	5	5	0	1.08	0.66	-0.42	0	0	0	0	0	0	0	0
5/2/2024 22:08	55001	NEWP_T1	0	0	0	0	0	0	-0.15	-0.23	0	0	0	0	0	0
5/2/2024 22:08	45902	AUBU_T1	0	0	0	0	0	0	-1.06	-1.04	1	1	0	600	600	0
5/2/2024 22:09	56501	ROCK_T2	2	0	-2	0.3	0	-0.3	-0.01	-0.01	0	0	0	0	0	0
5/2/2024 22:09	67703	WERN_T2	0	0	0	0	0	0	-0.72	-0.76	1	1	0	900	900	0
5/2/2024 22:09	56803	BENV_T1	3	0	-3	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/2/2024 22:09	49803	UNIV_T1	3	18	15	0.1	0.15	0.05	-1.09	-1.09	0	0	0	0	0	0
5/2/2024 22:09	56801	BENV_T1	12	7	-5	0.98	0.63	-0.35	-0.76	-0.77	1	1	0	600	600	0
5/2/2024 22:09	49804	UNIV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/2/2024 22:09	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 22:09	67605	WARW_T1	16	3	-13	0.21	0.13	-0.08	-1.27	-1.29	0	0	0	0	0	0
5/2/2024 22:09	46206	DANV_T2	0	0	0	0	0	0	2.47	2.47	1	1	0	1200	1200	0
5/2/2024 22:09	20403	ASHF_T2	36	21	-15	0.82	0.27	-0.55	0.21	0.17	0	0	0	0	0	0
5/2/2024 22:09	15001	BLMO_T1	1	6	5	0.1	0.35	0.25	0	0	0	0	0	0	0	0
5/2/2024 22:09	67602	WARW_T2	0	0	0	0	0	0	0.11	0.06	1	1	0	1200	1200	0
5/2/2024 22:09	20401	ASHF_T2	6	0	-6	0.48	0	-0.48	0	0	0	0	0	0	0	0
5/2/2024 22:09	44601	SALE_T2	1	1	0	0.2	0.6	0.4	0.02	0.02	0	0	0	0	0	0
5/2/2024 22:10	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 22:10	14205	EALL_T2	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
5/2/2024 22:10	46101	MACI_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
5/2/2024 22:10	56802	BENV_T2	1	1	0	0.8	0.2	-0.6	-1.77	-2.1	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/2/2024 22:10	65903	SAKR_T2	0	0	0	0	0	0	-1.25	-1.29	3	3	0	2100	2100	0
5/2/2024 22:10	56803	BENV_T1	3	0	-3	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/2/2024 22:10	56801	BENV_T1	12	7	-5	0.98	0.63	-0.35	-0.76	-0.77	1	1	0	600	600	0
5/2/2024 22:10	14801	TREI_T2	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
5/2/2024 22:10	59101	WALK_T2	0	0	0	0	0	0	1.18	1.24	0	0	0	0	0	0
5/2/2024 22:10	65901	SAKR_T2	1	1	0	9	8.3	-0.7	0	0	0	0	0	0	0	0
5/2/2024 22:11	45902	AUBU_T1	0	0	0	0	0	0	-1.06	-1.04	1	1	0	600	600	0
5/2/2024 22:11	54201	PENN_T1	69	10	-59	0.37	1.07	0.7	0	0	0	0	0	0	0	0
5/2/2024 22:11	56802	BENV_T2	1	1	0	0.8	0.2	-0.6	-0.59	-0.7	0	0	0	0	0	0
5/2/2024 22:11	53902	HALI_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
5/2/2024 22:11	43202	MVIL_T2	85	104	19	0.74	0.76	0.02	0	0	0	0	0	0	0	0
5/2/2024 22:11	25501	MADI_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/2/2024 22:11	44301	BEAV_T2	0	0	0	0	0	0	-0.24	-0.1	1	1	0	600	600	0
5/2/2024 22:11	53903	HALI_T2	2	2	0	1.7	0.9	-0.8	0	0	0	0	0	0	0	0
5/2/2024 22:11	45901	AUBU_T1	0	0	0	0	0	0	2.17	2.14	0	0	0	0	0	0
5/2/2024 22:11	54205	PENN_T1	50	0	-50	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/2/2024 22:11	43201	MVIL_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
5/2/2024 22:11	25503	MADI_T1	178	391	213	0.38	0.49	0.11	-1.03	-1.02	0	0	0	0	0	0
5/2/2024 22:11	53901	HALI_T2	1	1	0	0.6	0.3	-0.3	-1.41	-1.44	0	0	0	0	0	0
5/2/2024 22:11	54203	PENN_T1	25	18	-7	1.01	0.89	-0.12	0.26	0.24	0	0	0	0	0	0
5/2/2024 22:11	47401	PENS_T1	0	0	0	0	0	0	-0.04	-0.11	0	0	0	0	0	0
5/2/2024 22:12	44301	BEAV_T2	0	0	0	0	0	0	-0.24	-0.1	1	1	0	600	600	0
5/2/2024 22:12	52501	PROG_T1	0	0	0	0	0	0	0.19	0.16	1	1	0	300	300	0
5/2/2024 22:12	64101	REFR_T1	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
5/2/2024 22:12	10801	CHHI_T1	0	0	0	0	0	0	-2.61	-2.65	4	4	0	3000	3000	0
5/2/2024 22:12	56802	BENV_T2	1	1	0	0.8	0.2	-0.6	-0.59	-0.7	0	0	0	0	0	0
5/2/2024 22:12	10805	CHHI_T2	1	1	0	7.7	7.3	-0.4	-1.17	-1.31	1	1	0	600	600	0
5/2/2024 22:12	63202	MGTN_T2	0	0	0	0	0	0	-0.07	-0.09	1	1	0	900	900	0
5/2/2024 22:12	43202	MVIL_T2	85	104	19	0.74	0.76	0.02	-0.76	-0.75	0	0	0	0	0	0
5/2/2024 22:12	15204	SFAR_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
5/2/2024 22:12	67502	WEWI_T2	0	5	5	0	0.1	0.1	-1.17	-1.27	1	1	0	900	900	0
5/2/2024 22:13	55002	NEWP_T1	5	5	0	1.08	0.66	-0.42	-0.24	-0.25	0	0	0	0	0	0
5/2/2024 22:13	56501	ROCK_T2	2	0	-2	0.3	0	-0.3	-0.01	-0.01	0	0	0	0	0	0
5/2/2024 22:13	54502	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/2/2024 22:13	46004	BERW_T2	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
5/2/2024 22:13	67803	WLAN_T1	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
5/2/2024 22:13	59003	MIFF_T1	0	0	0	0	0	0	0.59	0.66	0	0	0	0	0	0
5/2/2024 22:13	44504	HAMI_T2	0	0	0	0	0	0	-1.16	-1.17	0	0	0	0	0	0
5/2/2024 22:13	56802	BENV_T2	1	1	0	0.8	0.2	-0.6	-0.59	-0.7	0	0	0	0	0	0
5/2/2024 22:13	59002	MIFF_T1	6	5	-1	0.75	0.26	-0.49	0	0	0	0	0	0	0	0
5/2/2024 22:13	44502	HAMI_T2	1	1	0	3.3	3.5	0.2	0	0	0	0	0	0	0	0
5/2/2024 22:13	54505	ENOL_T2	1	1	0	0.7	0.2	-0.5	-1.08	-1.14	1	1	0	600	600	0
5/2/2024 22:13	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 22:13	28403	HART_T2	0	0	0	0	0	0	-0.95	-0.99	1	1	0	900	900	0
5/2/2024 22:13	46301	ROHR_T1	135	177	42	0.24	0.27	0.03	0.19	0.18	0	0	0	0	0	0
5/2/2024 22:13	67805	WLAN_T1	6	204	198	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/2/2024 22:13	46302	ROHR_T1	5	13	8	2.08	1.08	-1	0	0	0	0	0	0	0	0
5/2/2024 22:14	59003	MIFF_T1	0	0	0	0	0	0	0.59	0.66	0	0	0	0	0	0
5/2/2024 22:14	40802	EXCH_T2	66	0	-66	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/2/2024 22:14	20401	ASHF_T2	6	0	-6	0.48	0	-0.48	0	0	0	0	0	0	0	0
5/2/2024 22:14	15001	BLMO_T1	1	6	5	0.1	0.35	0.25	0	0	0	0	0	0	0	0
5/2/2024 22:14	20403	ASHF_T2	36	21	-15	0.82	0.27	-0.55	0.21	0.17	0	0	0	0	0	0
5/2/2024 22:14	65503	MOJO_T2	0	0	0	0	0	0	-0.04	0	0	0	0	0	0	0
5/2/2024 22:14	14404	SSLA_T1	2	1	-1	2.75	5.2	2.45	0	0.01	0	0	0	0	0	0
5/2/2024 22:14	65502	MOJO_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/2/2024 22:14	15204	SFAR_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
5/2/2024 22:14	40801	EXCH_T2	4	0	-4	0.3	0	-0.3	-0.42	-0.47	1	1	0	1200	1200	0
5/2/2024 22:14	13704	SCHN_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
5/2/2024 22:14	59002	MIFF_T1	6	5	-1	0.75	0.26	-0.49	0	0	0	0	0	0	0	0
5/2/2024 22:15	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/2/2024 22:15	43302	WATS_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
5/2/2024 22:15	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 22:15	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 22:15	66502	SMAN_T2	0	0	0	0	0	0	0.14	0.09	0	0	0	0	0	0
5/2/2024 22:15	51107	CARL_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
5/2/2024 22:15	62102	ELAN_T1	0	0	0	0	0	0	1	0.99	0	0	0	0	0	0
5/2/2024 22:15	43301	WATS_T2	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
5/2/2024 22:15	29402	BELT_T1	1	1	0	7.4	7.7	0.3	0	0	0	0	0	0	0	0
5/2/2024 22:15	56802	BENV_T2	1	1	0	0.2	0.7	0.5	-0.59	-0.7	0	0	0	0	0	0
5/2/2024 22:15	12601	MACA_T1	0	0	0	0	0	0	0.86	0.86	0	0	0	0	0	0
5/2/2024 22:15	67503	WEWI_T2	0	0	0	0	0	0	0.71	0.72	0	0	0	0	0	0
5/2/2024 22:15	16301	ALPA_T1	3	22	19	0.33	0.17	-0.16	-0.15	-0.15	0	0	0	0	0	0
5/2/2024 22:15	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/2/2024 22:15	67502	WEWI_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
5/2/2024 22:15	46001	BERW_T1	0	0	0	0	0	0	0.63	0.57	0	0	0	0	0	0
5/2/2024 22:16	10805	CHHI_T2	1	1	0	7.6	7.3	-0.3	-1.17	-1.31	1	1	0	600	600	0
5/2/2024 22:16	11101	EGYP_T1	1	0	-1	0.4	0	-0.4	0	0	1	1	0	1200	1200	0
5/2/2024 22:16	54505	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/2/2024 22:16	44601	SALE_T2	1	1	0	0.5	0.9	0.4	0.02	0.02	0	0	0	0	0	0
5/2/2024 22:16	46203	DANV_T2	0	0	0	0	0	0	-0.68	-0.65	0	0	0	0	0	0
5/2/2024 22:16	43202	MVIL_T2	85	132	47	0.76	0.84	0.08	-0.76	-0.75	0	0	0	0	0	0
5/2/2024 22:16	54502	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/2/2024 22:16	44301	BEAV_T2	0	0	0	0	0	0	-0.24	-0.1	1	1	0	600	600	0
5/2/2024 22:16	56802	BENV_T2	1	1	0	0.2	0.7	0.5	-0.59	-0.7	0	0	0	0	0	0
5/2/2024 22:16	54503	ENOL_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/2/2024 22:16	28403	HART_T2	0	0	0	0	0	0	-0.95	-0.99	1	1	0	900	900	0
5/2/2024 22:16	66901	SHIL_T2	0	0	0	0	0	0	-0.97	-1.04	0	0	0	0	0	0
5/2/2024 22:16	42201	SHEN_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
5/2/2024 22:16	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 22:17	56802	BENV_T2	1	1	0	0.2	0.7	0.5	-1.18	-1.4	0	0	0	0	0	0
5/2/2024 22:17	13704	SCHN_T2	0	4	4	0	0.1	0.1	-0.34	-0.33	0	0	0	0	0	0
5/2/2024 22:17	46803	HEPB_T2	15	4	-11	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
5/2/2024 22:17	46801	HEPB_T2	34	5	-29	0.29	0.5	0.21	0.69	0.62	0	0	0	0	0	0
5/2/2024 22:17	61102	BERK_T5	0	0	0	0	0	0	0.65	0.69	1	1	0	300	300	0
5/2/2024 22:17	64101	REFR_T1	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
5/2/2024 22:17	55002	NEWP_T1	4	5	1	0.63	0.66	0.03	-0.24	-0.25	0	0	0	0	0	0
5/2/2024 22:17	46001	BERW_T1	0	0	0	0	0	0	0.63	0.57	0	0	0	0	0	0
5/2/2024 22:18	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2024 22:18	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/2/2024 22:18	15001	BLMO_T1	6	5	-1	0.2	0.64	0.44	0	0	0	0	0	0	0	0
5/2/2024 22:18	14204	EALL_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
5/2/2024 22:18	43301	WATS_T2	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
5/2/2024 22:18	43302	WATS_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
5/2/2024 22:18	23001	SAJO_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
5/2/2024 22:19	58402	MORO_T1	0	0	0	0	0	0	-0.47	-0.55	2	2	0	1500	1500	0
5/2/2024 22:19	12701	MACU_T1	0	0	0	0	0	0	-1.16	-1.18	1	1	0	1200	1200	0
5/2/2024 22:19	42503	ALTA_T2	0	0	0	0	0	0	0.42	0.37	0	0	0	0	0	0
5/2/2024 22:19	15001	BLMO_T1	6	5	-1	0.2	0.64	0.44	0	0	0	0	0	0	0	0
5/2/2024 22:19	46203	DANV_T2	0	0	0	0	0	0	-0.68	-0.65	0	0	0	0	0	0
5/2/2024 22:19	52501	PROG_T1	0	0	0	0	0	0	0.37	0.32	2	2	0	600	600	0
5/2/2024 22:19	44301	BEAV_T2	0	0	0	0	0	0	-0.24	-0.1	1	1	0	600	600	0
5/2/2024 22:19	66503	SMAN_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
5/2/2024 22:20	46504	LOHA_T1	52	33	-19	0.51	0.25	-0.26	0	0	0	0	0	0	0	0
5/2/2024 22:20	46506	LOHA_T1	1	1	0	0.7	0.5	-0.2	-0.38	-0.4	0	0	0	0	0	0
5/2/2024 22:20	52002	LING_T2	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
5/2/2024 22:21	46302	ROHR_T1	6	30	24	1.95	0.54	-1.41	0.14	0.15	0	0	0	0	0	0
5/2/2024 22:21	46506	LOHA_T1	1	1	0	0.7	0.5	-0.2	-0.38	-0.4	0	0	0	0	0	0
5/2/2024 22:21	46301	ROHR_T1	134	214	80	0.25	0.33	0.08	0	0	0	0	0	0	0	0
5/2/2024 22:21	46504	LOHA_T1	52	33	-19	0.51	0.25	-0.26	0	0	0	0	0	0	0	0
5/2/2024 22:21	42201	SHEN_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
5/2/2024 22:21	47401	PENS_T1	0	0	0	0	0	0	-0.04	-0.11	0	0	0	0	0	0
5/2/2024 22:21	64101	REFR_T1	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
5/2/2024 22:21	12701	MACU_T1	0	0	0	0	0	0	-1.16	-1.18	1	1	0	1200	1200	0
5/2/2024 22:22	49804	UNIV_T1	1	0	-1	0.3	0	-0.3	0.6	0.56	0	0	0	0	0	0
5/2/2024 22:22	59101	WALK_T2	0	0	0	0	0	0	1.18	1.24	0	0	0	0	0	0
5/2/2024 22:22	49803	UNIV_T1	18	4	-14	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/2/2024 22:22	55002	NEWP_T1	4	5	1	0.63	0.66	0.03	0	0	0	0	0	0	0	0
5/2/2024 22:22	55001	NEWP_T1	0	0	0	0	0	0	-0.15	-0.23	0	0	0	0	0	0
5/2/2024 22:23	44301	BEAV_T2	0	0	0	0	0	0	-0.24	-0.1	1	1	0	600	600	0
5/2/2024 22:44	67703	WERN_T2	0	0	0	0	0	0	-0.77	-0.79	1	1	0	900	900	0
5/2/2024 23:24	65702	RVIL_T2	0	0	0	0	0	0	-0.91	-0.97	1	1	0	600	600	0
5/2/2024 23:45	51402	LYKE_T1	0	0	0	0	0	0	-0.82	-0.82	0	0	0	0	0	0
5/3/2024 1:24	52101	MEIS_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
5/3/2024 1:24	52102	MEIS_T1	46	98	52	0.1	0.16	0.06	0	0	0	0	0	0	0	0
5/3/2024 6:38	15001	BLMO_T1	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
5/3/2024 6:41	61102	BERK_T5	0	0	0	0	0	0	0.71	0.64	1	1	0	300	300	0
5/3/2024 7:06	55102	WERT_T2	0	0	0	0	0	0	-1.62	-1.56	2	2	0	1200	1200	0
5/3/2024 7:06	55104	WERT_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 7:19	41902	REED_T1	0	0	0	0	0	0	0.99	0.94	0	0	0	0	0	0
5/3/2024 7:19	41901	REED_T1	0	8	8	0	0.23	0.23	0	0	0	0	0	0	0	0
5/3/2024 7:44	52004	LING_T2	0	1	1	0	0.3	0.3	0.4	0.39	0	0	0	0	0	0
5/3/2024 7:44	41502	FAIR_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
5/3/2024 7:44	52006	LING_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/3/2024 7:46	52004	LING_T2	0	1	1	0	0.5	0.5	0.4	0.39	0	0	0	0	0	0
5/3/2024 7:46	52006	LING_T2	1	3	2	0.1	0.67	0.57	0	0	0	0	0	0	0	0
5/3/2024 7:48	15203	SFAR_T2	0	0	0	0	0	0	-1.37	-1.36	0	0	0	0	0	0
5/3/2024 7:48	14401	SSLA_T1	1	0	-1	0.1	0	-0.1	-0.55	-0.47	0	0	0	0	0	0
5/3/2024 7:48	52004	LING_T2	0	1	1	0	0.5	0.5	0.4	0.39	0	0	0	0	0	0
5/3/2024 7:48	52006	LING_T2	1	3	2	0.1	0.67	0.57	0	0	0	0	0	0	0	0
5/3/2024 7:48	14404	SSLA_T1	1	2	1	6.4	3.25	-3.15	0	0	0	0	0	0	0	0
5/3/2024 7:50	43202	MVIL_T2	60	92	32	0.34	0.75	0.41	-0.75	-0.75	0	0	0	0	0	0
5/3/2024 7:51	14404	SSLA_T1	1	2	1	6.4	3.25	-3.15	-0.02	-0.01	0	0	0	0	0	0
5/3/2024 7:51	14401	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 7:52	56802	BENV_T2	1	321	320	1	0.22	-0.78	-1.5	-1.45	0	0	0	0	0	0
5/3/2024 7:52	44301	BEAV_T2	0	0	0	0	0	0	0.31	0.31	2	2	0	1500	1500	0
5/3/2024 7:55	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 7:55	62605	ENGL_T1	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
5/3/2024 7:57	61503	EPET_T1	0	0	0	0	0	0	-1.04	-0.98	0	0	0	0	0	0
5/3/2024 7:57	56802	BENV_T2	1	321	320	1	0.22	-0.78	-1.45	-1.44	0	0	0	0	0	0
5/3/2024 7:59	62605	ENGL_T1	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
5/3/2024 7:59	62607	ENGL_T1	1	1	0	0	0	0	-1.08	-1.11	1	1	0	300	300	0
5/3/2024 8:01	63403	HONY_T2	0	0	0	0	0	0	0.28	0.3	1	1	0	600	600	0
5/3/2024 8:01	63402	HONY_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/3/2024 8:02	23404	HONE_T1	1	1	0	7.2	7.4	0.2	0	0	0	0	0	0	0	0
5/3/2024 8:02	23403	HONE_T1	0	0	0	0	0	0	-0.79	-0.76	0	0	0	0	0	0
5/3/2024 8:03	65003	NEFF_T2	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
5/3/2024 8:03	65001	NEFF_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 8:03	65002	NEFF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/3/2024 8:03	65004	NEFF_T2	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
5/3/2024 8:06	67002	STHI_T2	0	1	1	0	0.1	0.1	2.09	2.11	0	0	0	0	0	0
5/3/2024 8:06	26001	WDAM_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
5/3/2024 8:06	14603	SWHI_T1	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
5/3/2024 8:08	67605	WARW_T1	23	31	8	0.73	0.53	-0.2	-1.11	-1.09	0	0	0	0	0	0
5/3/2024 8:09	67002	STHI_T2	0	1	1	0	0.1	0.1	0.7	0.72	0	0	0	0	0	0
5/3/2024 8:09	44301	BEAV_T2	0	0	0	0	0	0	0.41	0.17	2	2	0	1500	1500	0
5/3/2024 8:10	14705	TREX_T1	337	352	15	0.65	0.76	0.11	-1.52	-1.55	0	0	0	0	0	0
5/3/2024 8:10	51602	DUKE_T2	0	0	0	0	0	0	-3.12	-3.04	2	2	0	2400	2400	0
5/3/2024 8:10	45901	AUBU_T1	0	0	0	0	0	0	1.86	1.91	0	0	0	0	0	0
5/3/2024 8:11	10801	CHHI_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
5/3/2024 8:13	67605	WARW_T1	23	31	8	0.73	0.53	-0.2	-1.11	-1.09	0	0	0	0	0	0
5/3/2024 8:13	56802	BENV_T2	2	425	423	0.55	0.31	-0.24	-1.44	-1.4	0	0	0	0	0	0
5/3/2024 8:16	51602	DUKE_T2	0	0	0	0	0	0	-1.56	-1.52	1	1	0	1200	1200	0
5/3/2024 8:19	54505	ENOL_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
5/3/2024 8:19	54502	ENOL_T2	1	1	0	1	1.6	0.6	-1.06	-1.12	1	1	0	600	600	0
5/3/2024 8:22	67505	WEWI_T1	0	0	0	0	0	0	-0.23	-0.2	1	1	0	900	900	0
5/3/2024 8:22	67501	WEWI_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/3/2024 8:23	15203	SFAR_T2	0	0	0	0	0	0	-1.35	-1.38	0	0	0	0	0	0
5/3/2024 8:23	56802	BENV_T2	321	422	101	0.22	0.31	0.09	-1.4	-1.41	0	0	0	0	0	0
5/3/2024 8:26	61801	EELI_T2	1	0	-1	0.3	0	-0.3	-0.69	-0.76	1	1	0	600	600	0
5/3/2024 8:27	56802	BENV_T2	321	422	101	0.22	0.31	0.09	-2.8	-2.82	0	0	0	0	0	0
5/3/2024 8:27	61702	ELIZ_T2	0	2	2	0	0.15	0.15	-4.22	-1.59	4	2	-2	3000	600	-2400
5/3/2024 8:27	61704	ELIZ_T2	5	5	0	1.08	0.64	-0.44	0	0	0	0	0	0	0	0
5/3/2024 8:28	56802	BENV_T2	321	422	101	0.22	0.31	0.09	-1.4	-1.41	0	0	0	0	0	0
5/3/2024 8:34	51702	OBER_T1	2	2	0	3.4	3.1	-0.3	-0.49	0.14	1	0	-1	600	0	-600
5/3/2024 8:36	51702	OBER_T1	2	2	0	3.4	3.1	-0.3	-0.49	0.14	1	0	-1	600	0	-600
5/3/2024 8:38	67605	WARW_T1	30	29	-1	0.52	0.49	-0.03	-1.08	-1.09	0	0	0	0	0	0
5/3/2024 8:41	54502	ENOL_T2	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
5/3/2024 8:41	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	-1.35	-1.33	1	1	0	600	600	0
5/3/2024 8:43	67605	WARW_T1	30	29	-1	0.52	0.49	-0.03	-1.08	-1.09	0	0	0	0	0	0
5/3/2024 8:49	13302	ORVI_T2	1	1	0	0.2	0.2	0	1.38	1.39	0	0	0	0	0	0
5/3/2024 8:51	67502	WEWI_T2	0	2	2	0	0.2	0.2	-0.28	-0.37	0	0	0	0	0	0
5/3/2024 8:52	57002	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 8:52	57003	WHHI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/3/2024 8:52	57006	WHHI_T2	0	1	1	0	0.2	0.2	0.38	0.43	0	0	0	0	0	0
5/3/2024 8:52	45902	AUBU_T1	1	1	0	0.1	0.8	0.7	-1.13	-1.2	2	2	0	1200	1200	0
5/3/2024 8:54	15001	BLMO_T1	4	4	0	0.78	1.08	0.3	0	0	0	0	0	0	0	0
5/3/2024 8:55	20401	ASHF_T2	3	4	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
5/3/2024 8:55	20403	ASHF_T2	21	16	-5	0.21	0.33	0.12	1.16	1.09	0	0	0	0	0	0
5/3/2024 8:56	11601	CEAL_T1	0	1	1	0	0.4	0.4	0	0	1	1	0	1200	1200	0
5/3/2024 8:56	57002	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 8:56	57003	WHHI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/3/2024 8:56	57006	WHHI_T2	0	1	1	0	0.2	0.2	0.43	0.48	0	0	0	0	0	0
5/3/2024 8:57	45501	DERR_T2	2	1	-1	0.4	0.8	0.4	0.54	0.69	2	2	0	1800	1800	0
5/3/2024 8:57	45902	AUBU_T1	1	1	0	0.1	0.8	0.7	-0.6	-0.67	1	1	0	600	600	0
5/3/2024 8:58	51108	CARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/3/2024 8:58	51102	CARL_T1	5	5	0	0.14	0.18	0.04	0	0	0	0	0	0	0	0
5/3/2024 8:58	51101	CARL_T1	0	1	1	0	0	0	-1.09	-1.03	1	1	0	600	600	0
5/3/2024 9:00	64702	LITI_T2	0	0	0	0	0	0	-0.47	-0.64	0	0	0	0	0	0
5/3/2024 9:02	47802	MOCA_T2	2	1	-1	0.35	0.6	0.25	-0.89	-1.04	0	0	0	0	0	0
5/3/2024 9:02	64702	LITI_T2	0	0	0	0	0	0	-0.47	-0.64	0	0	0	0	0	0
5/3/2024 9:07	49804	UNIV_T1	3	3	0	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
5/3/2024 9:07	49803	UNIV_T1	10	26	16	0.14	0.15	0.01	-1.19	-1.17	0	0	0	0	0	0
5/3/2024 9:07	67703	WERN_T2	0	0	0	0	0	0	-0.28	-0.3	1	1	0	900	900	0
5/3/2024 9:07	13901	SEID_T1	0	0	0	0	0	0	0.26	0.19	0	0	0	0	0	0
5/3/2024 9:08	45902	AUBU_T1	1	1	0	0.6	0.8	0.2	-1.33	-1.39	2	2	0	1200	1200	0
5/3/2024 9:09	57003	WHHI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/3/2024 9:09	57006	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/3/2024 9:09	57004	WHHI_T2	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
5/3/2024 9:10	43304	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/3/2024 9:11	67703	WERN_T2	0	0	0	0	0	0	-0.3	-0.25	1	1	0	900	900	0
5/3/2024 9:13	45902	AUBU_T1	1	1	0	0.6	0.8	0.2	-0.67	-0.69	1	1	0	600	600	0
5/3/2024 9:17	47103	MARL_T2	2	0	-2	0.15	0	-0.15	-0.52	-0.5	0	0	0	0	0	0
5/3/2024 9:17	47102	MARL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/3/2024 9:18	25402	LAHA_T2	0	1	1	0	0.2	0.2	-0.6	-0.52	0	0	0	0	0	0
5/3/2024 9:20	12402	MILF_T1	1	1	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
5/3/2024 9:20	12401	MILF_T1	1	1	0	0.7	0.5	-0.2	-0.37	-0.36	0	0	0	0	0	0
5/3/2024 9:20	12403	MILF_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/3/2024 9:24	46004	BERW_T2	0	0	0	0	0	0	-0.55	-0.58	0	0	0	0	0	0
5/3/2024 9:24	46002	BERW_T2	0	0	0	0	0	0	-0.65	-0.61	1	1	0	900	900	0
5/3/2024 9:24	45902	AUBU_T1	1	1	0	0.8	0.7	-0.1	-0.69	-0.6	1	1	0	600	600	0
5/3/2024 9:29	40902	JESH_T1	0	1	1	0	0	0	-0.42	-0.5	0	0	0	0	0	0
5/3/2024 9:29	45902	AUBU_T1	1	1	0	0.8	0.7	-0.1	-0.69	-0.6	1	1	0	600	600	0
5/3/2024 9:30	40902	JESH_T1	0	1	1	0	0.3	0.3	-0.42	-0.5	0	0	0	0	0	0
5/3/2024 9:32	57303	MOAL_T2	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
5/3/2024 9:32	57304	MOAL_T2	11	12	1	0.32	0.23	-0.09	0	0	0	0	0	0	0	0
5/3/2024 9:32	57306	MOAL_T2	0	0	0	0	0	0	-3.24	-3.23	1	1	0	1200	1200	0
5/3/2024 9:33	64902	MILL_T2	0	0	0	0	0	0	-0.56	-0.51	1	1	0	900	900	0
5/3/2024 9:35	40902	JESH_T1	0	1	1	0	0.3	0.3	-0.42	-0.5	0	0	0	0	0	0
5/3/2024 9:38	67703	WERN_T2	0	0	0	0	0	0	-0.26	-0.23	1	1	0	900	900	0
5/3/2024 9:39	67703	WERN_T2	0	0	0	0	0	0	-0.26	-0.23	1	1	0	900	900	0
5/3/2024 9:39	22003	BOHE_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/3/2024 9:39	45902	AUBU_T1	1	3	2	0.7	1	0.3	-0.6	-0.62	1	1	0	600	600	0
5/3/2024 9:41	45902	AUBU_T1	1	3	2	0.7	1	0.3	-0.6	-0.62	1	1	0	600	600	0
5/3/2024 9:43	29402	BELT_T1	3	3	0	3.33	3.23	-0.1	0	0	0	0	0	0	0	0
5/3/2024 9:43	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
5/3/2024 9:43	29401	BELT_T1	39	35	-4	0.15	0.16	0.01	0	0	1	1	0	900	900	0
5/3/2024 9:45	45902	AUBU_T1	1	1	0	0.6	1	0.4	-0.6	-0.62	1	1	0	600	600	0
5/3/2024 9:45	45901	AUBU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 9:45	13503	MCMI_T2	6	0	-6	0.42	0.33	-0.09	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 9:47	54504	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/3/2024 9:47	54502	ENOL_T2	1	1	0	0.9	0.9	0	-1.12	-1.13	1	1	0	600	600	0
5/3/2024 9:47	54505	ENOL_T2	1	2	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
5/3/2024 9:49	60502	NMAN_T2	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
5/3/2024 9:49	60504	NMAN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/3/2024 9:49	60501	NMAN_T2	3	3	0	4.93	5.07	0.14	0	0	0	0	0	0	0	0
5/3/2024 9:52	15001	BLMO_T1	3	4	1	1	1.03	0.03	0	0	0	0	0	0	0	0
5/3/2024 9:55	10805	CHHI_T2	2	1	-1	4.45	8.8	4.35	-0.9	-1.1	2	2	0	1200	1200	0
5/3/2024 9:55	45902	AUBU_T1	1	1	0	0.6	1	0.4	-0.62	-0.57	1	1	0	600	600	0
5/3/2024 9:55	45901	AUBU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 9:55	61202	ELAN_T1	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
5/3/2024 9:56	10805	CHHI_T2	2	1	-1	4.45	8.8	4.35	-0.45	-0.55	1	1	0	600	600	0
5/3/2024 9:57	51102	CARL_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/3/2024 9:57	51109	CARL_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	1200	1200	0
5/3/2024 9:57	67603	WARW_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/3/2024 9:57	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 9:57	67605	WARW_T1	39	33	-6	0.5	0.53	0.03	-1.01	-1.02	0	0	0	0	0	0
5/3/2024 9:57	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 9:58	26704	HEML_T2	27	16	-11	0.11	0.1	-0.01	-0.85	-0.82	1	1	0	1200	1200	0
5/3/2024 9:59	67602	WARW_T2	0	0	0	0	0	0	0.53	1.26	2	1	-1	1500	300	-1200
5/3/2024 10:00	64801	MONE_T2	2	1	-1	0.15	0.5	0.35	0.27	0.29	0	0	0	0	0	0
5/3/2024 10:00	40505	CRES_T1	3	3	0	4.6	4.93	0.33	0.35	0.38	0	0	0	0	0	0
5/3/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	0.07	0.2	0	0	0	0	0	0
5/3/2024 10:00	65005	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 10:00	63804	HEMP_T1	1	2	1	6.5	6.5	0	0	0	0	0	0	0	0	0
5/3/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-0.49	-0.52	1	1	0	900	900	0
5/3/2024 10:00	62605	ENGL_T1	1	1	0	0.1	0.1	0	-0.65	-0.6	0	0	0	0	0	0
5/3/2024 10:00	64802	MONE_T2	2	5	3	0.25	0.3	0.05	0	0	0	0	0	0	0	0
5/3/2024 10:00	24702	FLND_T2	3	3	0	0.5	0.83	0.33	0	0	0	0	0	0	0	0
5/3/2024 10:00	21901	HUMB_T1	0	1	1	0	0.1	0.1	-0.93	-0.92	0	0	0	0	0	0
5/3/2024 10:00	43105	SMIL_T2	2	2	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/3/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
5/3/2024 10:00	24701	FLND_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
5/3/2024 10:00	59101	WALK_T2	1	2	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/3/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 10:00	14603	SWHI_T1	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
5/3/2024 10:00	40903	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 10:00	58803	COCO_T1	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
5/3/2024 10:00	56501	ROCK_T2	2	5	3	0.3	0.2	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 10:00	64304	LINC_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/3/2024 10:00	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/3/2024 10:00	44505	HAMI_T2	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
5/3/2024 10:00	56803	BENV_T1	1	468	467	1	1.87	0.87	0.25	0	0	0	0	0	0	0
5/3/2024 10:00	54505	ENOL_T2	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/3/2024 10:00	41902	REED_T1	0	0	0	0	0	0	1.2	1.19	0	0	0	0	0	0
5/3/2024 10:00	59001	MIFF_T1	3	1	-2	0.77	0.8	0.03	0	0	0	0	0	0	0	0
5/3/2024 10:00	63801	HEMP_T1	6	5	-1	0.2	0.16	-0.04	0.63	0.8	0	0	0	0	0	0
5/3/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	1.23	1.07	0	0	0	0	0	0
5/3/2024 10:00	56601	HAMP_T1	0	0	0	0	0	0	-1.63	-1.61	0	0	0	0	0	0
5/3/2024 10:00	12802	MICK_T1	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
5/3/2024 10:00	24101	EHAZ_T1	1	2	1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
5/3/2024 10:00	53501	EVIL_T2	2	2	0	0.5	0.65	0.15	0.66	0.84	2	2	0	1200	1200	0
5/3/2024 10:00	65004	NEFF_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/3/2024 10:00	53902	HALI_T2	1	3	2	5.1	2.03	-3.07	0	0	0	0	0	0	0	0
5/3/2024 10:00	65003	NEFF_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/3/2024 10:00	58102	NEKI_T1	2	2	0	0.55	0.65	0.1	-0.49	-0.68	1	1	0	1200	1200	0
5/3/2024 10:00	54601	SUMM_T2	6	9	3	0.27	0.27	0	0	0	0	0	0	0	0	0
5/3/2024 10:00	24105	EHAZ_T1	4	5	1	6.63	6.38	-0.25	-0.58	-0.59	1	1	0	1200	1200	0
5/3/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
5/3/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.79	0.72	0	0	0	0	0	0
5/3/2024 10:00	13302	ORVI_T2	0	0	0	0	0	0	1.46	1.43	0	0	0	0	0	0
5/3/2024 10:00	67703	WERN_T2	0	0	0	0	0	0	-0.47	-0.41	2	2	0	1800	1800	0
5/3/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	600	600	0
5/3/2024 10:00	62601	ENGL_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
5/3/2024 10:00	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/3/2024 10:00	59102	WALK_T2	1	1	0	0.5	0.5	0	0.4	0.42	0	0	0	0	0	0
5/3/2024 10:00	10801	CHHI_T1	0	0	0	0	0	0	-0.73	-0.74	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/3/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
5/3/2024 10:00	63305	GREE_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/3/2024 10:00	67605	WARW_T1	32	24	-8	0.52	0.52	0	0	0	0	0	0	0	0	0
5/3/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.56	-0.51	1	1	0	1200	1200	0
5/3/2024 10:00	17101	WTRE_T2	1398	1372	-26	1.11	0.87	-0.24	0	0	0	0	0	0	0	0
5/3/2024 10:00	56504	ROCK_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/3/2024 10:00	42001	MNVL_T2	5	7	2	0.66	0.43	-0.23	0.03	0.02	0	0	0	0	0	0
5/3/2024 10:00	63306	GREE_T1	0	0	0	0	0	0	-1.04	-1.03	0	0	0	0	0	0
5/3/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	1.07	1.75	0	0	0	0	0	0
5/3/2024 10:00	24102	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 10:00	61302	EARL_T1	1	1	0	0.1	0.6	0.5	0.53	0.52	2	2	0	1800	1800	0
5/3/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-0.6	-0.59	1	1	0	900	900	0
5/3/2024 10:00	54602	SUMM_T2	0	0	0	0	0	0	-2.32	-2.29	1	1	0	600	600	0
5/3/2024 10:00	59201	THOM_T1	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
5/3/2024 10:00	54001	SDLE_T1	3	4	1	0.4	0.48	0.08	0	0	0	0	0	0	0	0
5/3/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	0.61	0.87	0	0	0	0	0	0
5/3/2024 10:00	43201	MVIL_T2	1	1	0	0.1	0.5	0.4	-0.27	-0.27	0	0	0	0	0	0
5/3/2024 10:00	53903	HALI_T2	3	3	0	0.7	0.83	0.13	0	0	0	0	0	0	0	0
5/3/2024 10:00	22102	EDEL_T1	0	0	0	0	0	0	-0.8	-0.4	1	1	0	1200	1200	0
5/3/2024 10:00	54502	ENOL_T2	1	1	0	0.9	0.9	0	-2.26	-2.26	2	2	0	1200	1200	0
5/3/2024 10:00	53901	HALI_T2	1	2	1	0.3	0.4	0.1	-1.06	-1.04	0	0	0	0	0	0
5/3/2024 10:00	60803	BUCK_T1	13	14	1	0.21	0.33	0.12	0	0	0	0	0	0	0	0
5/3/2024 10:00	24104	EHAZ_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
5/3/2024 10:00	63303	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/3/2024 10:00	12604	MACA_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
5/3/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.32	1.31	0	0	0	0	0	0
5/3/2024 10:00	45902	AUBU_T1	1	2	1	1	0.7	-0.3	-0.62	-0.57	1	1	0	600	600	0
5/3/2024 10:00	40902	JESH_T1	1	2	1	0.3	0.4	0.1	-0.52	-0.53	0	0	0	0	0	0
5/3/2024 10:00	43102	SMIL_T2	5	5	0	0.34	0.18	-0.16	0	0	0	0	0	0	0	0
5/3/2024 10:00	43104	SMIL_T2	2	2	0	0.15	0.25	0.1	-0.8	-0.79	1	1	0	300	300	0
5/3/2024 10:00	43202	MVIL_T2	99	99	0	1.03	0.96	-0.07	0	0	0	0	0	0	0	0
5/3/2024 10:00	60504	NMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/3/2024 10:00	59202	THOM_T1	7	34	27	0.31	0.41	0.1	0	0	0	0	0	0	0	0
5/3/2024 10:00	39601	LNFD_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/3/2024 10:00	59002	MIFF_T1	6	5	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
5/3/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.38	0.34	0	0	0	0	0	0
5/3/2024 10:00	60801	BUCK_T1	1	2	1	0.5	0.3	-0.2	0.1	0.1	0	0	0	0	0	0
5/3/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.28	-0.23	0	0	0	0	0	0
5/3/2024 10:00	67401	WAKE_T2	2	3	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/3/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-1.01	-0.99	0	0	0	0	0	0
5/3/2024 10:00	41903	REED_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.27	-0.2	0	0	0	0	0	0
5/3/2024 10:00	44502	HAMI_T2	2	1	-1	1.15	2.3	1.15	0	0	0	0	0	0	0	0
5/3/2024 10:00	65002	NEFF_T2	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
5/3/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.54	0.58	0	0	0	0	0	0
5/3/2024 10:00	60501	NMAN_T2	3	3	0	4.93	5.07	0.14	0	0	0	0	0	0	0	0
5/3/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
5/3/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-0.46	-0.56	1	1	0	1200	1200	0
5/3/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
5/3/2024 10:00	43103	SMIL_T2	18	19	1	0.3	0.31	0.01	0	0	0	0	0	0	0	0
5/3/2024 10:00	67603	WARW_T1	1	0	-1	0.6	0	-0.6	0.06	0.08	0	0	0	0	0	0
5/3/2024 10:00	56801	BENV_T1	17	31	14	0.5	0.91	0.41	0	0	0	0	0	0	0	0
5/3/2024 10:00	63803	HEMP_T1	3	3	0	0.17	0.2	0.03	0	0	0	0	0	0	0	0
5/3/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
5/3/2024 10:00	62607	ENGL_T1	2	2	0	0.1	0.3	0.2	-1.04	-1.05	1	1	0	300	300	0
5/3/2024 10:00	43101	SMIL_T2	2	2	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
5/3/2024 10:00	42002	MNVL_T2	1	1	0	3.3	3.1	-0.2	0	0	0	0	0	0	0	0
5/3/2024 10:00	45602	WOOL_T1	10	9	-1	0.51	0.51	0	0.51	0.57	0	0	0	0	0	0
5/3/2024 10:03	46301	ROHR_T1	91	64	-27	0.22	0.27	0.05	0.19	0.19	0	0	0	0	0	0
5/3/2024 10:03	46302	ROHR_T1	7	10	3	1.49	1.26	-0.23	0	0	0	0	0	0	0	0
5/3/2024 10:06	67002	STHI_T2	3	9	6	0.23	0.24	0.01	0.82	0.85	0	0	0	0	0	0
5/3/2024 10:06	47104	MARL_T1	0	0	0	0	0	0	0.5	0.55	0	0	0	0	0	0
5/3/2024 10:06	67001	STHI_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/3/2024 10:06	16402	MOPO_T1	0	0	0	0	0	0	0.13	0.08	0	0	0	0	0	0
5/3/2024 10:07	46301	ROHR_T1	91	64	-27	0.22	0.27	0.05	0.19	0.19	0	0	0	0	0	0
5/3/2024 10:07	40903	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 10:07	60701	BREC_T1	0	0	0	0	0	0	-0.31	-0.3	2	2	0	1200	1200	0
5/3/2024 10:07	42902	MIDD_T2	0	8	8	0	0.29	0.29	0	0	0	0	0	0	0	0
5/3/2024 10:07	50701	SMEC_T1	0	1	1	0	0.1	0.1	-0.5	-0.5	1	1	0	900	900	0
5/3/2024 10:07	60504	NMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/3/2024 10:07	45602	WOOL_T1	10	9	-1	0.51	0.51	0	0.51	0.57	0	0	0	0	0	0
5/3/2024 10:07	60101	COCA_T1	0	2	2	0	0.15	0.15	0.36	0.4	0	0	0	0	0	0
5/3/2024 10:07	58402	MORO_T1	0	0	0	0	0	0	-0.23	-0.22	2	2	0	1500	1500	0
5/3/2024 10:07	60502	NMAN_T2	0	0	0	0	0	0	-0.27	-0.2	0	0	0	0	0	0
5/3/2024 10:07	53501	EVIL_T2	2	2	0	0.5	0.65	0.15	0.33	0.42	1	1	0	600	600	0
5/3/2024 10:07	46302	ROHR_T1	7	10	3	1.49	1.26	-0.23	0	0	0	0	0	0	0	0
5/3/2024 10:07	60501	NMAN_T2	3	3	0	4.93	5.07	0.14	0	0	0	0	0	0	0	0
5/3/2024 10:07	42903	MIDD_T2	2	3	1	0.45	0.77	0.32	-0.16	0.02	1	1	0	1200	1200	0
5/3/2024 10:07	40902	JESH_T1	1	2	1	0.3	0.4	0.1	-0.52	-0.53	0	0	0	0	0	0
5/3/2024 10:08	20401	ASHF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/3/2024 10:08	50502	MECH_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
5/3/2024 10:08	50505	MECH_T1	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
5/3/2024 10:08	15704	TANN_T1	3	1	-2	0.33	0.3	-0.03	-1.21	-1.18	0	0	0	0	0	0
5/3/2024 10:08	51702	OBER_T1	2	3	1	2.8	2	-0.8	0.19	0.06	0	0	0	0	0	0
5/3/2024 10:08	20403	ASHF_T2	0	0	0	0	0	0	2.41	2.28	0	0	0	0	0	0
5/3/2024 10:08	62601	ENGL_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
5/3/2024 10:08	62604	ENGL_T1	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
5/3/2024 10:08	62605	ENGL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/3/2024 10:08	52004	LING_T2	0	1	1	0	0.2	0.2	0.41	0.41	0	0	0	0	0	0
5/3/2024 10:08	50506	MECH_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/3/2024 10:08	15701	TANN_T1	2	2	0	2.75	2.8	0.05	0	0	0	0	0	0	0	0
5/3/2024 10:08	62607	ENGL_T1	2	2	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/3/2024 10:09	59101	WALK_T2	1	2	1	0.2	0.6	0.4	1.44	0.96	0	0	0	0	0	0
5/3/2024 10:09	59102	WALK_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/3/2024 10:09	17001	RIRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 10:09	12807	MICK_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
5/3/2024 10:10	20401	ASHF_T2	1	1	0	0.2	0.1	-0.1	-0.33	-0.38	0	0	0	0	0	0
5/3/2024 10:10	13901	SEID_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
5/3/2024 10:10	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/3/2024 10:11	10805	CHHI_T2	1	1	0	8.8	8.2	-0.6	-0.55	-0.7	1	1	0	600	600	0
5/3/2024 10:11	46002	BERW_T2	0	0	0	0	0	0	-0.59	-0.51	1	1	0	900	900	0
5/3/2024 10:12	56802	BENV_T2	6	13	7	0.38	0.37	-0.01	-0.58	-0.62	0	0	0	0	0	0
5/3/2024 10:13	67603	WARW_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/3/2024 10:13	41801	GOCI_T2	145	201	56	0.34	0.49	0.15	0	0	0	0	0	0	0	0
5/3/2024 10:13	67204	TEHI_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
5/3/2024 10:13	67605	WARW_T1	32	24	-8	0.52	0.52	0	-1.02	-1.01	0	0	0	0	0	0
5/3/2024 10:13	56802	BENV_T2	6	13	7	0.38	0.37	-0.01	-1.75	-1.87	0	0	0	0	0	0
5/3/2024 10:14	56501	ROCK_T2	2	5	3	0.3	0.2	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 10:14	56802	BENV_T2	6	13	7	0.38	0.37	-0.01	-1.17	-1.25	0	0	0	0	0	0
5/3/2024 10:14	64702	LITI_T2	0	0	0	0	0	0	-0.38	-0.54	0	0	0	0	0	0
5/3/2024 10:14	56504	ROCK_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/3/2024 10:16	56501	ROCK_T2	2	3	1	0.2	0.3	0.1	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 10:16	56504	ROCK_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
5/3/2024 10:17	23001	SAJO_T1	0	1	1	0	0.1	0.1	-0.9	-0.87	0	0	0	0	0	0
5/3/2024 10:17	23002	SAJO_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/3/2024 10:18	55001	NEWP_T1	3	3	0	0.5	0.73	0.23	0	0	0	0	0	0	0	0
5/3/2024 10:18	55002	NEWP_T1	6	8	2	0.93	0.98	0.05	-0.22	-0.21	0	0	0	0	0	0
5/3/2024 10:20	55002	NEWP_T1	6	8	2	0.93	0.98	0.05	-0.22	-0.21	0	0	0	0	0	0
5/3/2024 10:20	10805	CHHI_T2	1	1	0	8.9	8.2	-0.7	-0.55	-0.7	1	1	0	600	600	0
5/3/2024 10:20	55001	NEWP_T1	3	3	0	0.5	0.73	0.23	0	0	0	0	0	0	0	0
5/3/2024 10:22	67502	WEWI_T2	10	13	3	0.42	0.33	-0.09	-0.27	-0.25	0	0	0	0	0	0
5/3/2024 10:23	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 10:23	43301	WATS_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/3/2024 10:23	45902	AUBU_T1	1	2	1	1	0.7	-0.3	-0.57	-0.52	1	1	0	600	600	0
5/3/2024 10:23	67502	WEWI_T2	10	13	3	0.42	0.33	-0.09	-0.25	-0.28	0	0	0	0	0	0
5/3/2024 10:24	57403	SPAN_T1	8	1	-7	0.2	0.7	0.5	0	0	0	0	0	0	0	0
5/3/2024 10:24	29401	BELT_T1	10	3	-7	0.13	0.1	-0.03	0	0	1	1	0	900	900	0
5/3/2024 10:24	29402	BELT_T1	2	2	0	4.6	4.75	0.15	0	0	0	0	0	0	0	0
5/3/2024 10:24	57401	SPAN_T1	0	1	1	0	0.3	0.3	-0.88	-0.84	1	1	0	600	600	0
5/3/2024 10:25	26001	WDAM_T1	0	0	0	0	0	0	-0.64	-0.6	0	0	0	0	0	0
5/3/2024 10:25	57403	SPAN_T1	8	1	-7	0.2	0.7	0.5	0	0	0	0	0	0	0	0
5/3/2024 10:25	57401	SPAN_T1	0	1	1	0	0.3	0.3	-0.88	-0.84	1	1	0	600	600	0
5/3/2024 10:26	45902	AUBU_T1	1	2	1	1	0.7	-0.3	-0.57	-0.52	1	1	0	600	600	0
5/3/2024 10:27	45901	AUBU_T1	0	0	0	0	0	0	1.86	1.9	0	0	0	0	0	0
5/3/2024 10:27	67702	WERN_T2	0	0	0	0	0	0	-0.04	-0.09	0	0	0	0	0	0
5/3/2024 10:27	45902	AUBU_T1	1	2	1	1	0.7	-0.3	-0.57	-0.52	1	1	0	600	600	0
5/3/2024 10:27	67703	WERN_T2	0	0	0	0	0	0	-0.2	-0.17	1	1	0	900	900	0
5/3/2024 10:29	28403	HART_T2	0	0	0	0	0	0	-0.87	-0.85	1	1	0	900	900	0
5/3/2024 10:33	64801	MONE_T2	1	5	4	0.4	0.4	0	0	0	0	0	0	0	0	0
5/3/2024 10:33	46803	HEPB_T2	4	4	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/3/2024 10:33	64802	MONE_T2	5	9	4	0.3	0.39	0.09	0.28	0.29	0	0	0	0	0	0
5/3/2024 10:33	46801	HEPB_T2	3	3	0	0.8	0.93	0.13	0.65	0.69	0	0	0	0	0	0
5/3/2024 10:34	13704	SCHN_T2	5	4	-1	0.22	0.18	-0.04	-0.36	-0.37	0	0	0	0	0	0
5/3/2024 10:34	66504	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/3/2024 10:34	66502	SMAN_T2	1	2	1	0.1	0.65	0.55	0.22	0.33	0	0	0	0	0	0
5/3/2024 10:34	66501	SMAN_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
5/3/2024 10:35	66504	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/3/2024 10:35	66502	SMAN_T2	1	2	1	0.1	0.65	0.55	0.22	0.33	0	0	0	0	0	0
5/3/2024 10:35	66501	SMAN_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
5/3/2024 10:37	57403	SPAN_T1	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/3/2024 10:37	42201	SHEN_T2	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
5/3/2024 10:37	57401	SPAN_T1	1	2	1	0.3	0.9	0.6	-0.88	-0.84	1	1	0	600	600	0
5/3/2024 10:37	13704	SCHN_T2	5	4	-1	0.22	0.18	-0.04	-0.36	-0.37	0	0	0	0	0	0
5/3/2024 10:39	15001	BLMO_T1	4	4	0	0.95	0.98	0.03	0	0	0	0	0	0	0	0
5/3/2024 10:40	15001	BLMO_T1	4	4	0	0.95	0.98	0.03	0	0	0	0	0	0	0	0
5/3/2024 10:41	57401	SPAN_T1	1	2	1	0.3	0.9	0.6	-0.84	-0.95	1	1	0	600	600	0
5/3/2024 10:41	57403	SPAN_T1	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/3/2024 10:41	67502	WEWI_T2	9	12	3	0.41	0.38	-0.03	-0.28	-0.33	0	0	0	0	0	0
5/3/2024 10:47	55002	NEWP_T1	8	7	-1	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
5/3/2024 10:47	55001	NEWP_T1	3	2	-1	0.73	0.35	-0.38	-0.15	-0.14	0	0	0	0	0	0
5/3/2024 10:50	49803	UNIV_T1	1	2	1	1.2	0.35	-0.85	-1.04	-0.99	0	0	0	0	0	0
5/3/2024 10:50	49804	UNIV_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
5/3/2024 10:51	55001	NEWP_T1	3	2	-1	0.73	0.35	-0.38	-0.15	-0.14	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/3/2024 10:51	55002	NEWP_T1	8	7	-1	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
5/3/2024 10:58	25404	LAHA_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
5/3/2024 10:58	25402	LAHA_T2	1	3	2	0.5	0.3	-0.2	-0.42	-0.39	0	0	0	0	0	0
5/3/2024 10:59	63602	LETO_T1	1	1	0	0.5	0.9	0.4	-0.22	-0.22	0	0	0	0	0	0
5/3/2024 11:00	40902	JESH_T1	2	1	-1	0.6	0.5	-0.1	-0.62	-0.5	0	0	0	0	0	0
5/3/2024 11:00	40903	JESH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 11:05	40902	JESH_T1	2	1	-1	0.6	0.5	-0.1	-0.62	-0.5	0	0	0	0	0	0
5/3/2024 11:05	40903	JESH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 11:06	67803	WLAN_T1	6	7	1	0.23	0.36	0.13	0	0	0	0	0	0	0	0
5/3/2024 11:06	67804	WLAN_T1	10	10	0	0.29	0.32	0.03	-1.03	-1.04	0	0	0	0	0	0
5/3/2024 11:06	66502	SMAN_T2	2	3	1	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
5/3/2024 11:06	66501	SMAN_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/3/2024 11:06	66504	SMAN_T2	2	4	2	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/3/2024 11:06	66503	SMAN_T2	0	0	0	0	0	0	0.5	0.56	0	0	0	0	0	0
5/3/2024 11:06	42802	SELI_T1	1	0	-1	0.3	0	-0.3	-0.57	-0.52	1	1	0	900	900	0
5/3/2024 11:07	42802	SELI_T1	1	0	-1	0.3	0	-0.3	-0.57	-0.52	1	1	0	900	900	0
5/3/2024 11:07	67804	WLAN_T1	10	10	0	0.29	0.32	0.03	0	0	0	0	0	0	0	0
5/3/2024 11:07	67803	WLAN_T1	6	7	1	0.23	0.36	0.13	-0.79	-0.82	0	0	0	0	0	0
5/3/2024 11:07	59101	WALK_T2	1	0	-1	0.3	0	-0.3	1.13	0.96	0	0	0	0	0	0
5/3/2024 11:07	11101	EGYP_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/3/2024 11:07	59102	WALK_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/3/2024 11:08	67803	WLAN_T1	6	7	1	0.23	0.36	0.13	0	0	0	0	0	0	0	0
5/3/2024 11:08	67805	WLAN_T1	0	0	0	0	0	0	-0.68	-0.79	0	0	0	0	0	0
5/3/2024 11:08	67804	WLAN_T1	10	10	0	0.29	0.32	0.03	0	0	0	0	0	0	0	0
5/3/2024 11:08	46002	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 11:08	46004	BERW_T2	0	1	1	0	0.3	0.3	-0.46	-0.45	0	0	0	0	0	0
5/3/2024 11:09	67803	WLAN_T1	6	7	1	0.23	0.36	0.13	-0.82	-0.75	0	0	0	0	0	0
5/3/2024 11:09	45902	AUBU_T1	3	4	1	0.47	0.83	0.36	-0.56	-0.58	1	1	0	600	600	0
5/3/2024 11:09	67804	WLAN_T1	10	10	0	0.29	0.32	0.03	0	0	0	0	0	0	0	0
5/3/2024 11:14	45902	AUBU_T1	3	4	1	0.47	0.83	0.36	-0.56	-0.58	1	1	0	600	600	0
5/3/2024 11:16	58402	MORO_T1	0	0	0	0	0	0	-0.25	-0.22	2	2	0	1500	1500	0
5/3/2024 11:16	65503	MOJO_T2	2	2	0	0.8	1	0.2	0.26	0.22	0	0	0	0	0	0
5/3/2024 11:17	65503	MOJO_T2	2	2	0	0.8	1	0.2	0.26	0.22	0	0	0	0	0	0
5/3/2024 11:20	12502	MITR_T2	1	1	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
5/3/2024 11:20	56803	BENV_T1	4	7	3	1.25	0.65	-0.6	0	0	0	0	0	0	0	0
5/3/2024 11:20	12505	MITR_T2	0	0	0	0	0	0	0.52	0.46	0	0	0	0	0	0
5/3/2024 11:20	56801	BENV_T1	33	36	3	1.16	1.12	-0.04	-0.16	-0.16	0	0	0	0	0	0
5/3/2024 11:20	56802	BENV_T2	4	10	6	0.5	0.55	0.05	-0.58	-0.63	0	0	0	0	0	0
5/3/2024 11:20	60101	COCA_T1	0	4	4	0	0.2	0.2	0.42	0.43	0	0	0	0	0	0
5/3/2024 11:21	56802	BENV_T2	4	10	6	0.5	0.55	0.05	-1.16	-1.26	0	0	0	0	0	0
5/3/2024 11:22	56803	BENV_T1	4	7	3	1.25	0.65	-0.6	0	0	0	0	0	0	0	0
5/3/2024 11:22	56802	BENV_T2	4	10	6	0.5	0.55	0.05	-0.58	-0.63	0	0	0	0	0	0
5/3/2024 11:22	56801	BENV_T1	33	36	3	1.16	1.12	-0.04	-0.16	-0.16	0	0	0	0	0	0
5/3/2024 11:24	45901	AUBU_T1	0	0	0	0	0	0	1.52	1.36	0	0	0	0	0	0
5/3/2024 11:24	65004	NEFF_T2	1	2	1	0.5	0.3	-0.2	-0.44	-0.42	0	0	0	0	0	0
5/3/2024 11:24	45902	AUBU_T1	1	4	3	0.9	1	0.1	-0.58	-0.58	1	1	0	600	600	0
5/3/2024 11:24	65005	NEFF_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/3/2024 11:24	65002	NEFF_T2	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
5/3/2024 11:24	65003	NEFF_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/3/2024 11:25	56802	BENV_T2	4	10	6	0.5	0.55	0.05	-0.63	-0.57	0	0	0	0	0	0
5/3/2024 11:26	60901	DONG_T2	7	9	2	0.41	0.46	0.05	0	0	0	0	0	0	0	0
5/3/2024 11:26	60902	DONG_T2	1	1	0	0.1	0.2	0.1	1.04	1.05	0	0	0	0	0	0
5/3/2024 11:26	60904	DONG_T2	3	3	0	0.57	0.67	0.1	0	0	0	0	0	0	0	0
5/3/2024 11:27	67702	WERN_T2	1	1	0	0.2	0.4	0.2	-0.04	-0.01	0	0	0	0	0	0
5/3/2024 11:27	67703	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 11:27	46004	BERW_T2	1	1	0	0.3	0.5	0.2	-0.46	-0.44	0	0	0	0	0	0
5/3/2024 11:28	29402	BELT_T1	2	6	4	4.45	1.68	-2.77	0	0	0	0	0	0	0	0
5/3/2024 11:28	67602	WARW_T2	0	0	0	0	0	0	1.47	1.44	1	1	0	300	300	0
5/3/2024 11:28	29401	BELT_T1	1	5	4	0.1	0.12	0.02	0	0	1	1	0	900	900	0
5/3/2024 11:28	47202	FAXO_T2	0	0	0	0	0	0	-2.15	-2.15	0	0	0	0	0	0
5/3/2024 11:30	23902	EFMO_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/3/2024 11:30	23901	EFMO_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/3/2024 11:30	45902	AUBU_T1	4	4	0	0.83	1	0.17	-0.58	-0.58	1	1	0	600	600	0
5/3/2024 11:31	63402	HONY_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
5/3/2024 11:31	63403	HONY_T2	1	0	-1	0.1	0	-0.1	0.3	0.3	1	1	0	600	600	0
5/3/2024 11:32	42903	MIDD_T2	2	2	0	0.9	1.05	0.15	-0.13	-0.11	1	1	0	1200	1200	0
5/3/2024 11:32	42902	MIDD_T2	8	8	0	0.61	0.34	-0.27	0	0	0	0	0	0	0	0
5/3/2024 11:40	45902	AUBU_T1	4	4	0	0.83	1	0.17	-0.58	-0.54	1	1	0	600	600	0
5/3/2024 11:40	45901	AUBU_T1	0	0	0	0	0	0	1.36	1.33	0	0	0	0	0	0
5/3/2024 11:41	15001	BLMO_T1	4	4	0	0.85	0.93	0.08	0	0	0	0	0	0	0	0
5/3/2024 11:43	57401	SPAN_T1	0	2	2	0	0.4	0.4	-0.97	-0.9	1	1	0	600	600	0
5/3/2024 11:43	57403	SPAN_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/3/2024 11:44	61801	EELI_T2	0	0	0	0	0	0	-0.5	-0.56	1	1	0	600	600	0
5/3/2024 11:44	61803	EELI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/3/2024 11:45	45902	AUBU_T1	4	4	0	1	0.6	-0.4	-0.58	-0.54	1	1	0	600	600	0
5/3/2024 11:46	44502	HAMI_T2	2	1	-1	1.2	2.3	1.1	-0.76	-0.76	0	0	0	0	0	0
5/3/2024 11:46	46801	HEPB_T2	2	2	0	1.25	1.2	-0.05	0.74	0.71	0	0	0	0	0	0
5/3/2024 11:46	44505	HAMI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/3/2024 11:46	46803	HEPB_T2	4	6	2	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
5/3/2024 11:50	59002	MIFF_T1	6	6	0	0.45	0.82	0.37	0	0	0	0	0	0	0	0
5/3/2024 11:50	59003	MIFF_T1	0	1	1	0	0.1	0.1	0	0.77	0	0	0	0	0	0
5/3/2024 11:50	59001	MIFF_T1	3	3	0	0.97	1.1	0.13	0	0	0	0	0	0	0	0
5/3/2024 11:56	45902	AUBU_T1	4	4	0	1	0.6	-0.4	-0.54	-0.58	1	1	0	600	600	0
5/3/2024 12:00	16403	MOPO_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
5/3/2024 12:02	12502	MITR_T2	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
5/3/2024 12:02	12505	MITR_T2	0	2	2	0	0.1	0.1	0.47	0.49	0	0	0	0	0	0
5/3/2024 12:04	54201	PENN_T1	9	9	0	0.83	0.77	-0.06	0	0	0	0	0	0	0	0
5/3/2024 12:04	54203	PENN_T1	19	18	-1	0.43	0.49	0.06	0.45	0.41	0	0	0	0	0	0
5/3/2024 12:06	45902	AUBU_T1	4	4	0	0.43	0.58	0.15	-0.54	-0.58	1	1	0	600	600	0
5/3/2024 12:06	13801	SALI_T1	0	0	0	0	0	0	0.94	0.9	0	0	0	0	0	0
5/3/2024 12:12	11803	FRAN_T2	0	1	1	0	0.1	0.1	0.48	0.52	0	0	0	0	0	0
5/3/2024 12:12	11303	EMMA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/3/2024 12:12	11301	EMMA_T1	0	0	0	0	0	0	-0.74	-0.69	0	0	0	0	0	0
5/3/2024 12:12	67505	WEWI_T1	0	2	2	0	0.15	0.15	-0.05	-0.03	1	1	0	900	900	0
5/3/2024 12:12	67501	WEWI_T1	2	2	0	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
5/3/2024 12:14	11303	EMMA_T1	0	1	1	0	0.5	0.5	-0.27	-0.28	0	0	0	0	0	0
5/3/2024 12:17	40602	PIGR_T1	1	1	0	0.6	0.9	0.3	0.66	0.67	0	0	0	0	0	0
5/3/2024 12:17	40601	PIGR_T1	11	11	0	0.41	0.38	-0.03	0	0	0	0	0	0	0	0
5/3/2024 12:19	13501	MCMI_T1	1	4	3	0.7	0.4	-0.3	0.04	0.05	0	0	0	0	0	0
5/3/2024 12:19	58402	MORO_T1	0	0	0	0	0	0	-0.36	-0.32	2	2	0	1500	1500	0
5/3/2024 12:19	13502	MCMI_T1	6	7	1	0.7	0.71	0.01	0	0	0	0	0	0	0	0
5/3/2024 12:21	40602	PIGR_T1	1	1	0	0.6	0.9	0.3	1.31	1.34	0	0	0	0	0	0
5/3/2024 12:21	40601	PIGR_T1	11	11	0	0.41	0.38	-0.03	0	0	0	0	0	0	0	0
5/3/2024 12:22	13503	MCMI_T2	20	25	5	0.71	0.57	-0.14	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 12:32	13502	MCMI_T1	7	6	-1	0.69	0.48	-0.21	0	0	0	0	0	0	0	0
5/3/2024 12:32	13501	MCMI_T1	4	4	0	0.35	0.4	0.05	0.05	0.05	0	0	0	0	0	0
5/3/2024 12:33	13503	MCMI_T2	23	21	-2	0.57	0.59	0.02	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 12:38	44202	POIN_T2	0	0	0	0	0	0	-0.59	-0.66	1	1	0	1200	1200	0
5/3/2024 12:50	43103	SMIL_T2	14	9	-5	0.37	0.38	0.01	0	0	0	0	0	0	0	0
5/3/2024 12:50	43105	SMIL_T2	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
5/3/2024 12:50	43101	SMIL_T2	2	1	-1	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
5/3/2024 12:50	43104	SMIL_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/3/2024 12:50	43108	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/3/2024 12:50	65803	RTWN_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/3/2024 12:50	65802	RTWN_T2	1	1	0	1	1	0	0.01	-0.02	0	0	0	0	0	0
5/3/2024 12:50	43102	SMIL_T2	0	0	0	0	0	0	-0.64	-0.66	1	1	0	600	600	0
5/3/2024 12:55	23902	EFMO_T2	1	2	1	0.1	0.2	0.1	0.05	0.05	0	0	0	0	0	0
5/3/2024 12:55	51304	WIND_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
5/3/2024 12:55	28805	LAKE_T1	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
5/3/2024 12:55	23901	EFMO_T2	4	3	-1	0.28	0.43	0.15	0	0	0	0	0	0	0	0
5/3/2024 13:01	56504	ROCK_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/3/2024 13:01	56501	ROCK_T2	3	3	0	0.4	0.47	0.07	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 13:01	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 13:08	14802	TREI_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/3/2024 13:08	14801	TREI_T2	2	2	0	0.6	0.65	0.05	0.38	0.35	0	0	0	0	0	0
5/3/2024 13:09	67804	WLAN_T1	1	2	1	0.1	0.25	0.15	-0.88	-0.88	0	0	0	0	0	0
5/3/2024 13:09	67803	WLAN_T1	1	5	4	0.4	0.18	-0.22	0	0	0	0	0	0	0	0
5/3/2024 13:10	10801	CHHI_T1	6	7	1	0.47	0.79	0.32	-0.74	-0.73	1	1	0	900	900	0
5/3/2024 13:11	40505	CRES_T1	3	3	0	4.77	4.53	-0.24	0.45	0.48	0	0	0	0	0	0
5/3/2024 13:14	14203	EALL_T1	0	2	2	0	0.15	0.15	-0.09	0.04	1	1	0	1200	1200	0
5/3/2024 13:18	65603	QVIL_T2	0	0	0	0	0	0	0.72	0.7	0	0	0	0	0	0
5/3/2024 13:26	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 13:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 13:35	15102	UPHA_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
5/3/2024 13:35	15101	UPHA_T1	0	0	0	0	0	0	0.8	0.83	0	0	0	0	0	0
5/3/2024 13:38	14802	TREI_T2	1	2	1	0.7	0.4	-0.3	0.42	0.38	0	0	0	0	0	0
5/3/2024 13:38	14801	TREI_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
5/3/2024 13:42	28805	LAKE_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
5/3/2024 13:47	64503	LAVI_T1	2	0	-2	0.15	0	-0.15	-1.42	-1.4	1	1	0	1200	1200	0
5/3/2024 13:47	64501	LAVI_T1	2	2	0	0.45	0.15	-0.3	0	0	0	0	0	0	0	0
5/3/2024 13:47	60102	COCA_T1	0	0	0	0	0	0	0.1	0.14	3	3	0	2100	2100	0
5/3/2024 13:47	60101	COCA_T1	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
5/3/2024 13:49	55002	NEWP_T1	11	12	1	0.69	1.01	0.32	-0.17	-0.15	0	0	0	0	0	0
5/3/2024 13:49	55001	NEWP_T1	2	8	6	0.4	0.7	0.3	0	0	0	0	0	0	0	0
5/3/2024 13:58	28805	LAKE_T1	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
5/3/2024 13:58	54505	ENOL_T2	0	0	0	0	0	0	-1.14	-1.18	1	1	0	600	600	0
5/3/2024 13:58	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/3/2024 14:01	67001	STHI_T2	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/3/2024 14:01	67002	STHI_T2	5	3	-2	0.36	0.2	-0.16	0.93	0.93	0	0	0	0	0	0
5/3/2024 14:06	56501	ROCK_T2	2	4	2	0.4	0.45	0.05	0	0	0	0	0	0	0	0
5/3/2024 14:06	56503	ROCK_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/3/2024 14:06	56504	ROCK_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/3/2024 14:11	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 14:15	53902	HALI_T2	4	4	0	1.9	2	0.1	-0.05	-0.06	0	0	0	0	0	0
5/3/2024 14:15	53901	HALI_T2	6	5	-1	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
5/3/2024 14:15	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 14:15	53903	HALI_T2	10	13	3	0.75	0.76	0.01	0	0	0	0	0	0	0	0
5/3/2024 14:19	51002	NHAR_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
5/3/2024 14:19	51006	NHAR_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
5/3/2024 14:19	51003	NHAR_T1	66	66	0	0.25	0.27	0.02	0	0	0	0	0	0	0	0
5/3/2024 14:19	51004	NHAR_T1	15	17	2	0.91	0.85	-0.06	-0.17	-0.18	0	0	0	0	0	0
5/3/2024 14:33	44203	POIN_T2	0	0	0	0	0	0	0.3	0.21	1	1	0	900	900	0
5/3/2024 14:39	53501	EVIL_T2	6	5	-1	0.87	1.04	0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/3/2024 14:39	53502	EVIL_T2	0	0	0	0	0	0	0.23	0.24	2	1	-1	1200	600	-600
5/3/2024 14:40	67803	WLAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 14:40	67805	WLAN_T1	0	0	0	0	0	0	-0.58	-0.7	0	0	0	0	0	0
5/3/2024 14:54	10602	BLGL_T2	0	3	3	0	0.83	0.83	0.57	0.53	0	0	0	0	0	0
5/3/2024 14:59	40801	EXCH_T2	0	2	2	0	0.1	0.1	-0.32	-0.33	1	1	0	1200	1200	0
5/3/2024 15:10	42701	AUGU_T1	2	2	0	0.25	0.35	0.1	0	0	2	2	0	1800	1800	0
5/3/2024 15:10	61103	BERK_T5	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
5/3/2024 15:11	44301	BEAV_T2	0	3	3	0	0.23	0.23	-0.01	-0.03	1	1	0	600	600	0
5/3/2024 15:20	44301	BEAV_T2	3	0	-3	0.23	0	-0.23	-0.01	-0.03	1	1	0	600	600	0
5/3/2024 15:21	67804	WLAN_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/3/2024 15:21	67803	WLAN_T1	4	2	-2	0.25	0.15	-0.1	-0.66	-0.65	0	0	0	0	0	0
5/3/2024 15:23	67804	WLAN_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/3/2024 15:23	67803	WLAN_T1	4	2	-2	0.25	0.15	-0.1	-0.65	-0.61	0	0	0	0	0	0
5/3/2024 15:25	67804	WLAN_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/3/2024 15:25	67803	WLAN_T1	4	2	-2	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
5/3/2024 15:25	67805	WLAN_T1	0	0	0	0	0	0	-0.74	-1.02	0	0	0	0	0	0
5/3/2024 15:29	56501	ROCK_T2	1	2	1	0.1	0.1	0	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 15:36	59202	THOM_T1	58	77	19	0.26	0.27	0.01	0	0	0	0	0	0	0	0
5/3/2024 15:36	59201	THOM_T1	7	12	5	0.17	0.21	0.04	0	0	0	0	0	0	0	0
5/3/2024 15:38	14802	TREI_T2	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
5/3/2024 15:38	14801	TREI_T2	1	3	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/3/2024 15:39	46001	BERW_T1	0	0	0	0	0	0	0.76	0.75	0	0	0	0	0	0
5/3/2024 15:44	56501	ROCK_T2	2	2	0	0.1	0.5	0.4	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 16:03	13501	MCMI_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
5/3/2024 16:03	13502	MCMI_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/3/2024 16:09	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 16:09	20401	ASHF_T2	6	6	0	0.28	0.37	0.09	0	0	0	0	0	0	0	0
5/3/2024 16:09	20403	ASHF_T2	101	58	-43	0.42	0.99	0.57	0.07	0.09	0	0	0	0	0	0
5/3/2024 16:09	66502	SMAN_T2	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
5/3/2024 16:26	55105	WERT_T1	0	0	0	0	0	0	-0.04	-0.13	1	1	0	900	900	0
5/3/2024 16:28	10805	CHHI_T2	1	1	0	7.3	7.3	0	-1.2	-1.19	1	1	0	600	600	0
5/3/2024 16:35	66502	SMAN_T2	0	0	0	0	0	0	0.18	0.24	0	0	0	0	0	0
5/3/2024 16:42	41502	FAIR_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
5/3/2024 16:47	56501	ROCK_T2	2	2	0	0.1	0.6	0.5	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 16:50	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 16:51	51301	WIND_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 16:51	51305	WIND_T1	0	0	0	0	0	0	-0.32	-0.28	0	0	0	0	0	0
5/3/2024 16:52	43202	MVIL_T2	66	87	21	0.56	0.69	0.13	-0.58	-0.65	0	0	0	0	0	0
5/3/2024 16:55	10805	CHHI_T2	1	1	0	7.3	7.1	-0.2	-1.21	-1.23	1	1	0	600	600	0
5/3/2024 16:55	45902	AUBU_T1	5	4	-1	0.56	0.58	0.02	-0.77	-0.79	1	1	0	600	600	0
5/3/2024 16:55	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 16:56	10801	CHHI_T1	0	4	4	0	0.23	0.23	-0.82	-0.74	1	1	0	900	900	0
5/3/2024 16:57	61304	EARL_T1	0	0	0	0	0	0	-0.68	-0.69	1	1	0	600	600	0
5/3/2024 16:59	61304	EARL_T1	0	0	0	0	0	0	-0.68	-0.69	1	1	0	600	600	0
5/3/2024 17:03	64302	LINC_T2	0	0	0	0	0	0	1.06	1.12	0	0	0	0	0	0
5/3/2024 17:04	55001	NEWP_T1	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
5/3/2024 17:04	55002	NEWP_T1	5	5	0	0.8	0.76	-0.04	0	0	0	0	0	0	0	0
5/3/2024 17:05	66302	MCGO_T2	0	0	0	0	0	0	-2.47	-2.5	2	2	0	1200	1200	0
5/3/2024 17:05	16902	MECK_T1	1	0	-1	0.2	0	-0.2	0.05	0.05	0	0	0	0	0	0
5/3/2024 17:07	62102	ELAN_T1	0	0	0	0	0	0	1.07	0.92	0	0	0	0	0	0
5/3/2024 17:11	67801	WLAN_T1	0	0	0	0	0	0	0.37	0.43	0	0	0	0	0	0
5/3/2024 17:13	29401	BELT_T1	0	2	2	0	0.1	0.1	0	0	1	1	0	900	900	0
5/3/2024 17:13	29402	BELT_T1	1	1	0	8.3	8.3	0	0	0	0	0	0	0	0	0
5/3/2024 17:24	61102	BERK_T5	0	0	0	0	0	0	0.05	-0.05	1	1	0	300	300	0
5/3/2024 17:24	61103	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 17:27	45902	AUBU_T1	1	0	-1	0.2	0	-0.2	-0.86	-0.88	1	1	0	600	600	0
5/3/2024 17:29	45902	AUBU_T1	1	0	-1	0.2	0	-0.2	-0.86	-0.88	1	1	0	600	600	0
5/3/2024 17:32	45902	AUBU_T1	0	0	0	0	0	0	-0.86	-0.88	1	1	0	600	600	0
5/3/2024 17:36	25503	MADI_T1	2	19	17	0.1	0.15	0.05	-0.94	-0.98	0	0	0	0	0	0
5/3/2024 17:38	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/3/2024 17:39	14401	SSLA_T1	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
5/3/2024 17:39	14402	SSLA_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
5/3/2024 17:39	14404	SSLA_T1	2	2	0	3.1	3.1	0	0.06	0.02	0	0	0	0	0	0
5/3/2024 17:40	51303	WIND_T1	0	0	0	0	0	0	0.06	0	0	0	0	0	0	0
5/3/2024 17:40	51305	WIND_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 17:40	51301	WIND_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 17:42	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 17:49	66302	MCGO_T2	0	0	0	0	0	0	-1.31	-1.37	1	1	0	600	600	0
5/3/2024 17:50	55002	NEWP_T1	5	5	0	0.7	0.58	-0.12	-0.35	-0.38	0	0	0	0	0	0
5/3/2024 17:50	67401	WAKE_T2	0	0	0	0	0	0	-1.1	-1.1	0	0	0	0	0	0
5/3/2024 17:50	57205	ROSS_T1	0	0	0	0	0	0	0.43	0.52	0	0	0	0	0	0
5/3/2024 17:51	26001	WDAM_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
5/3/2024 17:51	26002	WDAM_T1	3	4	1	0.37	0.5	0.13	0	0	0	0	0	0	0	0
5/3/2024 17:52	17002	RIRO_T2	89	166	77	0.14	0.16	0.02	0.38	0.43	0	0	0	0	0	0
5/3/2024 17:53	51303	WIND_T1	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0
5/3/2024 17:57	51303	WIND_T1	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0
5/3/2024 17:58	40801	EXCH_T2	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
5/3/2024 17:58	40802	EXCH_T2	8	3	-5	0.16	0.1	-0.06	-0.26	-0.25	0	0	0	0	0	0
5/3/2024 18:02	29401	BELT_T1	0	8	8	0	0.1	0.1	0	0	1	1	0	900	900	0
5/3/2024 18:02	29402	BELT_T1	1	1	0	8	8.2	0.2	0	0	0	0	0	0	0	0
5/3/2024 18:03	43302	WATS_T2	4	4	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
5/3/2024 18:03	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 18:03	43301	WATS_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/3/2024 18:04	64601	LEOL_T1	0	0	0	0	0	0	-1.56	-1.58	1	1	0	1200	1200	0
5/3/2024 18:05	51702	OBER_T1	2	2	0	3.55	3.85	0.3	0.71	0.72	1	1	0	600	600	0
5/3/2024 18:08	24201	PROV_T3	1	1	0	7.6	6.9	-0.7	0	0	0	0	0	0	0	0
5/3/2024 18:08	65901	SAKR_T2	1	1	0	9.4	8.6	-0.8	0	0	0	0	0	0	0	0
5/3/2024 18:08	60101	COCA_T1	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
5/3/2024 18:08	61304	EARL_T1	0	0	0	0	0	0	-0.78	-0.8	1	1	0	600	600	0
5/3/2024 18:08	24205	PROV_T3	1	1	0	4	5	1	0	0	0	0	0	0	0	0
5/3/2024 18:08	24204	PROV_T3	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
5/3/2024 18:08	21901	HUMB_T1	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
5/3/2024 18:08	54501	ENOL_T2	0	0	0	0	0	0	-0.34	-0.35	1	1	0	600	600	0
5/3/2024 18:08	60502	NMAN_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
5/3/2024 18:08	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 18:08	67201	TEHI_T1	0	0	0	0	0	0	0.09	0.04	1	1	0	600	600	0
5/3/2024 18:08	60501	NMAN_T2	3	3	0	4.9	4.9	0	0	0	0	0	0	0	0	0
5/3/2024 18:08	67203	TEHI_T1	0	1	1	0	0.4	0.4	1.76	1.74	1	1	0	600	600	0
5/3/2024 18:08	67605	WARW_T1	17	5	-12	0.51	0.14	-0.37	-0.91	-0.91	0	0	0	0	0	0
5/3/2024 18:08	54505	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/3/2024 18:08	54502	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/3/2024 18:08	65903	SAKR_T2	0	0	0	0	0	0	-1.05	-1.05	3	3	0	2100	2100	0
5/3/2024 18:09	15103	UPHA_T2	0	1	1	0	0.1	0.1	0.45	0.49	0	0	0	0	0	0
5/3/2024 18:09	49804	UNIV_T1	1	1	0	0.2	0.2	0	0.69	0.68	0	0	0	0	0	0
5/3/2024 18:09	15001	BLMO_T1	4	4	0	0.48	0.88	0.4	0	0	0	0	0	0	0	0
5/3/2024 18:14	41802	GOCI_T2	14	16	2	0.16	0.19	0.03	0	0	0	0	0	0	0	0
5/3/2024 18:14	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
5/3/2024 18:14	59302	MCAL_T1	1	1	0	0.6	1	0.4	-0.38	-0.45	1	1	0	600	600	0
5/3/2024 18:14	45902	AUBU_T1	0	1	1	0	0.1	0.1	-2.86	-2.87	3	3	0	1800	1800	0
5/3/2024 18:14	29401	BELT_T1	0	8	8	0	0.1	0.1	0	0	3	3	0	2700	2700	0
5/3/2024 18:14	41901	REED_T1	3	6	3	0.13	0.15	0.02	0	0	0	0	0	0	0	0
5/3/2024 18:14	57401	SPAN_T1	0	0	0	0	0	0	-0.54	-0.57	1	1	0	600	600	0
5/3/2024 18:14	56802	BENV_T2	1	1	0	0.6	0.8	0.2	-0.46	-0.45	0	0	0	0	0	0
5/3/2024 18:14	41902	REED_T1	0	0	0	0	0	0	2.38	2.42	0	0	0	0	0	0
5/3/2024 18:14	24902	WHHA_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
5/3/2024 18:14	41801	GOCI_T2	146	108	-38	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
5/3/2024 18:14	29402	BELT_T1	1	1	0	8	8.2	0.2	0	0	0	0	0	0	0	0
5/3/2024 18:14	15702	TANN_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
5/3/2024 18:14	56501	ROCK_T2	2	0	-2	0.1	0	-0.1	0.01	0.01	0	0	0	0	0	0
5/3/2024 18:14	59301	MCAL_T1	2	3	1	0.9	0.17	-0.73	0	0	0	0	0	0	0	0
5/3/2024 18:15	28704	HAML_T2	1	1	0	0.4	0.6	0.2	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 18:15	64501	LAVI_T1	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
5/3/2024 18:18	64902	MILL_T2	0	0	0	0	0	0	-0.5	-0.53	1	1	0	900	900	0
5/3/2024 18:18	47102	MARL_T2	3	2	-1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
5/3/2024 18:18	47103	MARL_T2	2	2	0	0.15	0.2	0.05	-0.51	-0.49	0	0	0	0	0	0
5/3/2024 18:19	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.95	-0.96	1	1	0	600	600	0
5/3/2024 18:20	67605	WARW_T1	5	8	3	0.14	0.25	0.11	-0.91	-0.91	0	0	0	0	0	0
5/3/2024 18:20	63602	LETO_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
5/3/2024 18:21	43102	SMIL_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
5/3/2024 18:21	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 18:21	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 18:21	43103	SMIL_T2	8	4	-4	0.26	0.53	0.27	-0.74	-0.76	0	0	0	0	0	0
5/3/2024 18:22	59201	THOM_T1	8	18	10	0.19	0.38	0.19	0	0	0	0	0	0	0	0
5/3/2024 18:22	59202	THOM_T1	45	244	199	0.21	0.27	0.06	0	0	0	0	0	0	0	0
5/3/2024 18:23	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.96	-0.97	1	1	0	600	600	0
5/3/2024 18:23	67402	WAKE_T2	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
5/3/2024 18:23	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/3/2024 18:23	62105	ELAN_T1	0	18	18	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 18:23	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/3/2024 18:23	67703	WERN_T2	0	0	0	0	0	0	-0.11	-0.06	1	1	0	900	900	0
5/3/2024 18:23	40101	HUNT_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
5/3/2024 18:23	62106	ELAN_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
5/3/2024 18:24	59201	THOM_T1	8	18	10	0.19	0.38	0.19	0	0	0	0	0	0	0	0
5/3/2024 18:24	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
5/3/2024 18:24	56802	BENV_T2	1	1	0	0.8	0.8	0	-0.45	-0.48	0	0	0	0	0	0
5/3/2024 18:24	15001	BLMO_T1	3	4	1	0.97	0.8	-0.17	0	0	0	0	0	0	0	0
5/3/2024 18:24	59202	THOM_T1	45	244	199	0.21	0.27	0.06	0	0	0	0	0	0	0	0
5/3/2024 18:24	15702	TANN_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
5/3/2024 18:24	13704	SCHN_T2	3	6	3	0.17	0.15	-0.02	-0.37	-0.39	0	0	0	0	0	0
5/3/2024 18:29	63305	GREE_T1	10	15	5	0.24	0.29	0.05	-2.02	-2.07	1	1	0	900	900	0
5/3/2024 18:30	41303	FISH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 18:30	23203	HIRU_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
5/3/2024 18:30	41301	FISH_T1	3	4	1	1.1	0.85	-0.25	-0.02	-0.03	0	0	0	0	0	0
5/3/2024 18:33	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/3/2024 18:33	62101	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/3/2024 18:33	62105	ELAN_T1	2	18	16	0.1	0.1	0	0	0	0	0	0	0	0	0
5/3/2024 18:33	62104	ELAN_T1	0	0	0	0	0	0	0.27	0.25	2	1	-1	1500	1200	-300
5/3/2024 18:35	46803	HEPB_T2	3	11	8	0.13	0.18	0.05	0.49	0.51	0	0	0	0	0	0
5/3/2024 18:35	46801	HEPB_T2	4	16	12	0.4	0.24	-0.16	0	0	0	0	0	0	0	0
5/3/2024 18:36	62101	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/3/2024 18:36	62105	ELAN_T1	2	18	16	0.1	0.1	0	0	0	0	0	0	0	0	0
5/3/2024 18:36	62104	ELAN_T1	0	0	0	0	0	0	0.27	0.25	2	1	-1	1500	1200	-300
5/3/2024 18:36	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/3/2024 18:38	43102	SMIL_T2	0	4	4	0	0.33	0.33	-1.36	-1.4	2	2	0	1200	1200	0
5/3/2024 18:38	43103	SMIL_T2	4	6	2	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
5/3/2024 18:39	59101	WALK_T2	0	0	0	0	0	0	1.12	1.36	0	0	0	0	0	0
5/3/2024 18:40	24801	VALM_T1	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
5/3/2024 18:41	43102	SMIL_T2	0	4	4	0	0.33	0.33	-0.7	-0.74	1	1	0	600	600	0
5/3/2024 18:41	43103	SMIL_T2	4	6	2	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
5/3/2024 18:44	62605	ENGL_T1	0	0	0	0	0	0	-0.47	-0.55	0	0	0	0	0	0
5/3/2024 18:44	11504	FREE_T1	0	0	0	0	0	0	-2.46	-2.48	2	2	0	2100	2100	0
5/3/2024 18:44	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 18:49	62101	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/3/2024 18:49	62103	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/3/2024 18:49	62105	ELAN_T1	18	12	-6	0.1	0.1	0	0	0	0	0	0	0	0	0
5/3/2024 18:49	62102	ELAN_T1	0	0	0	0	0	0	0.87	1.02	0	0	0	0	0	0
5/3/2024 18:50	24801	VALM_T1	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
5/3/2024 18:51	56801	BENV_T1	4	11	7	0.3	0.41	0.11	-0.1	-0.22	0	0	0	0	0	0
5/3/2024 18:51	64501	LAVI_T1	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
5/3/2024 18:51	58401	MORO_T1	0	0	0	0	0	0	-0.83	-0.89	1	1	0	600	600	0
5/3/2024 18:51	42701	AUGU_T1	1	1	0	0.4	0.7	0.3	0	0	2	2	0	1800	1800	0
5/3/2024 18:51	57401	SPAN_T1	0	0	0	0	0	0	-0.54	-0.58	1	1	0	600	600	0
5/3/2024 18:51	48302	ORWI_T2	2	2	0	1.1	1.25	0.15	0	0	0	0	0	0	0	0
5/3/2024 18:51	41902	REED_T1	0	0	0	0	0	0	1.17	1.19	0	0	0	0	0	0
5/3/2024 18:51	56803	BENV_T1	4	5	1	0.63	0.1	-0.53	0	0	0	0	0	0	0	0
5/3/2024 18:51	41901	REED_T1	6	6	0	0.13	0.15	0.02	0	0	0	0	0	0	0	0
5/3/2024 18:52	62101	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/3/2024 18:52	62105	ELAN_T1	18	12	-6	0.1	0.1	0	0	0	0	0	0	0	0	0
5/3/2024 18:52	62103	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/3/2024 18:52	62102	ELAN_T1	0	0	0	0	0	0	1.74	2.05	0	0	0	0	0	0
5/3/2024 18:54	62103	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/3/2024 18:54	62101	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/3/2024 18:54	62105	ELAN_T1	18	12	-6	0.1	0.1	0	0	0	0	0	0	0	0	0
5/3/2024 18:54	62102	ELAN_T1	0	0	0	0	0	0	1.02	0.82	0	0	0	0	0	0
5/3/2024 18:57	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 18:57	62605	ENGL_T1	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
5/3/2024 18:59	10901	COOP_T2	0	0	0	0	0	0	0.85	0.8	0	0	0	0	0	0
5/3/2024 19:00	56803	BENV_T1	5	1	-4	0.42	0.2	-0.22	-0.05	-0.08	1	1	0	600	600	0
5/3/2024 19:00	56801	BENV_T1	9	16	7	0.34	0.5	0.16	0	0	0	0	0	0	0	0
5/3/2024 19:02	64902	MILL_T2	0	0	0	0	0	0	-0.51	-0.55	1	1	0	900	900	0
5/3/2024 19:02	47103	MARI_T2	2	4	2	0.2	0.15	-0.05	-0.49	-0.43	0	0	0	0	0	0
5/3/2024 19:02	47102	MARI_T2	4	5	1	0.18	0.28	0.1	0	0	0	0	0	0	0	0
5/3/2024 19:03	56501	ROCK_T2	2	2	0	0.2	0.35	0.15	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 19:07	65603	QVIL_T2	0	0	0	0	0	0	0.16	0.12	0	0	0	0	0	0
5/3/2024 19:13	67604	WARW_T1	0	0	0	0	0	0	0.63	0.58	0	0	0	0	0	0
5/3/2024 19:13	67605	WARW_T1	12	14	2	0.33	0.56	0.23	0	0	0	0	0	0	0	0
5/3/2024 19:17	63305	GREE_T1	2	3	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 19:17	63304	GREE_T1	0	362	362	0	0.16	0.16	-1.6	-1.69	0	0	0	0	0	0
5/3/2024 19:18	53502	EVIL_T2	0	0	0	0	0	0	0.8	0.72	0	0	0	0	0	0
5/3/2024 19:18	53501	EVIL_T2	3	3	0	0.43	0.6	0.17	0	0	0	0	0	0	0	0
5/3/2024 19:18	48301	ORWI_T1	2	2	0	4.85	5	0.15	0	0	0	0	0	0	0	0
5/3/2024 19:19	48302	ORWI_T2	2	2	0	1.25	1.4	0.15	-0.03	-0.02	0	0	0	0	0	0
5/3/2024 19:21	67401	WAKE_T2	9	30	21	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
5/3/2024 19:21	67402	WAKE_T2	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
5/3/2024 19:23	65702	RVIL_T2	0	0	0	0	0	0	-0.89	-0.91	1	1	0	600	600	0
5/3/2024 19:27	63304	GREE_T1	0	362	362	0	0.16	0.16	-1.69	-1.72	0	0	0	0	0	0
5/3/2024 19:27	63305	GREE_T1	2	3	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 19:31	54502	ENOL_T2	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
5/3/2024 19:31	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
5/3/2024 19:31	54503	ENOL_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/3/2024 19:35	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/3/2024 19:38	61102	BERK_T5	0	1	1	0	0.1	0.1	0.69	0.69	1	1	0	300	300	0
5/3/2024 19:41	15001	BLMO_T1	4	4	0	0.58	0.48	-0.1	0	0	0	0	0	0	0	0
5/3/2024 19:43	40501	CRES_T2	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/3/2024 19:43	40502	CRES_T2	18	19	1	0.21	0.31	0.1	0.5	0.51	0	0	0	0	0	0
5/3/2024 19:44	40501	CRES_T2	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/3/2024 19:44	40502	CRES_T2	18	19	1	0.21	0.31	0.1	0.5	0.51	0	0	0	0	0	0
5/3/2024 19:55	56601	HAMP_T1	0	0	0	0	0	0	-1.65	-1.7	0	0	0	0	0	0
5/3/2024 20:05	43202	MVIL_T2	95	103	8	0.99	0.91	-0.08	-0.7	-0.71	0	0	0	0	0	0
5/3/2024 20:07	46302	ROHR_T1	12	34	22	0.87	0.39	-0.48	0	0	0	0	0	0	0	0
5/3/2024 20:07	46301	ROHR_T1	174	204	30	0.32	0.37	0.05	0.17	0.19	0	0	0	0	0	0
5/3/2024 20:09	43201	MVIL_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
5/3/2024 20:09	43202	MVIL_T2	95	103	8	0.99	0.91	-0.08	0	0	0	0	0	0	0	0
5/3/2024 20:11	46301	ROHR_T1	174	204	30	0.32	0.37	0.05	0.19	0.19	0	0	0	0	0	0
5/3/2024 20:11	46302	ROHR_T1	12	34	22	0.87	0.39	-0.48	0	0	0	0	0	0	0	0
5/3/2024 20:17	67204	TEHI_T2	0	0	0	0	0	0	0.04	0.07	0	0	0	0	0	0
5/3/2024 20:17	56802	BENV_T2	19	113	94	0.11	0.22	0.11	-0.59	-0.59	0	0	0	0	0	0
5/3/2024 20:18	56501	ROCK_T2	2	2	0	0.7	0.7	0	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 20:25	43302	WATS_T2	4	4	0	0.6	0.78	0.18	0	0	0	0	0	0	0	0
5/3/2024 20:25	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 20:25	43301	WATS_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
5/3/2024 20:40	20403	ASHF_T2	41	41	0	1.4	1.57	0.17	0.15	0.15	0	0	0	0	0	0
5/3/2024 20:40	20401	ASHF_T2	5	6	1	0.46	0.58	0.12	-0.35	-0.37	0	0	0	0	0	0
5/3/2024 20:49	59301	MCAL_T1	2	19	17	1	1.15	0.15	0	0	0	0	0	0	0	0
5/3/2024 20:49	59302	MCAL_T1	1	1	0	0.7	0.7	0	-0.43	-0.39	1	1	0	600	600	0
5/3/2024 20:54	24902	WHHA_T1	1	1	0	1.8	0	-1.8	0.43	0.39	0	0	0	0	0	0
5/3/2024 20:59	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
5/3/2024 20:59	54502	ENOL_T2	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
5/3/2024 20:59	54501	ENOL_T2	0	3	3	0	0.13	0.13	-0.49	-0.42	1	1	0	600	600	0
5/3/2024 21:05	65903	SAKR_T2	0	0	0	0	0	0	-1.27	-1.32	3	3	0	2100	2100	0
5/3/2024 21:05	65901	SAKR_T2	1	1	0	9.2	10	0.8	0	0	0	0	0	0	0	0
5/3/2024 21:10	11101	EGYP_T1	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
5/3/2024 21:11	42802	SELI_T1	1	1	0	0.4	0.7	0.3	-0.94	-0.94	1	1	0	900	900	0
5/3/2024 21:13	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 21:16	64702	LITI_T2	0	0	0	0	0	0	-0.54	-0.69	0	0	0	0	0	0
5/3/2024 21:17	64702	LITI_T2	0	0	0	0	0	0	-0.54	-0.69	0	0	0	0	0	0
5/3/2024 21:19	56802	BENV_T2	56	183	127	0.15	0.34	0.19	-2.56	-2.6	0	0	0	0	0	0
5/3/2024 21:20	56802	BENV_T2	56	183	127	0.15	0.34	0.19	-1.28	-1.3	0	0	0	0	0	0
5/3/2024 21:22	11101	EGYP_T1	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
5/3/2024 21:22	56802	BENV_T2	56	183	127	0.15	0.34	0.19	-1.28	-1.3	0	0	0	0	0	0
5/3/2024 21:23	56801	BENV_T1	16	17	1	0.68	0.66	-0.02	-0.64	-0.6	0	0	0	0	0	0
5/3/2024 21:23	56803	BENV_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
5/3/2024 21:23	26001	WDAM_T1	0	0	0	0	0	0	-0.6	-0.64	0	0	0	0	0	0
5/3/2024 21:23	26002	WDAM_T1	8	43	35	0.26	0.17	-0.09	0	0	0	0	0	0	0	0
5/3/2024 21:23	11101	EGYP_T1	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
5/3/2024 21:23	42201	SHEN_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
5/3/2024 21:24	26001	WDAM_T1	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
5/3/2024 21:24	26002	WDAM_T1	8	43	35	0.26	0.17	-0.09	0	0	0	0	0	0	0	0
5/3/2024 21:25	56802	BENV_T2	56	183	127	0.15	0.34	0.19	-1.3	-1.36	0	0	0	0	0	0
5/3/2024 21:25	57401	SPAN_T1	0	0	0	0	0	0	-0.7	-0.72	1	1	0	600	600	0
5/3/2024 21:27	56803	BENV_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
5/3/2024 21:27	56801	BENV_T1	16	17	1	0.68	0.66	-0.02	-0.16	-0.15	0	0	0	0	0	0
5/3/2024 21:29	58402	MORO_T1	0	0	0	0	0	0	-0.43	-0.49	2	2	0	1500	1500	0
5/3/2024 21:39	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.21	1	1	0	600	600	0
5/3/2024 21:42	29402	BELT_T1	1	1	0	8.6	9.2	0.6	0	0	0	0	0	0	0	0
5/3/2024 21:42	29401	BELT_T1	0	15	15	0	0.13	0.13	0	0	1	1	0	900	900	0
5/3/2024 21:43	55001	NEWP_T1	2	23	21	0.1	0.16	0.06	-0.22	-0.26	0	0	0	0	0	0
5/3/2024 21:43	29402	BELT_T1	1	1	0	8.6	9.2	0.6	0	0	0	0	0	0	0	0
5/3/2024 21:43	29401	BELT_T1	0	15	15	0	0.13	0.13	0	0	3	3	0	2700	2700	0
5/3/2024 21:43	55002	NEWP_T1	6	6	0	1.37	1.47	0.1	0	0	0	0	0	0	0	0
5/3/2024 21:47	29402	BELT_T1	1	1	0	8.8	9.2	0.4	0	0	0	0	0	0	0	0
5/3/2024 21:47	29401	BELT_T1	0	15	15	0	0.13	0.13	0	0	0	0	0	0	0	0
5/3/2024 21:48	44503	HAMI_T2	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 21:48	44501	HAMI_T2	0	23	23	0	0.15	0.15	0	0	0	0	0	0	0	0
5/3/2024 21:48	44502	HAMI_T2	1	1	0	3.6	3.9	0.3	-0.98	-0.93	0	0	0	0	0	0
5/3/2024 21:50	46801	HEPB_T2	2	2	0	0.6	0.8	0.2	0.64	0.61	0	0	0	0	0	0
5/3/2024 21:50	51004	NHAR_T1	7	7	0	1.09	1.27	0.18	-0.36	-0.36	0	0	0	0	0	0
5/3/2024 21:50	51002	NHAR_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
5/3/2024 21:50	55001	NEWP_T1	5	23	18	0.14	0.16	0.02	0	0	0	0	0	0	0	0
5/3/2024 21:50	55002	NEWP_T1	6	6	0	1.42	1.47	0.05	-0.25	-0.26	0	0	0	0	0	0
5/3/2024 21:50	60101	COCA_T1	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
5/3/2024 21:51	55001	NEWP_T1	5	23	18	0.14	0.16	0.02	0	0	0	0	0	0	0	0
5/3/2024 21:51	55002	NEWP_T1	6	6	0	1.42	1.47	0.05	-0.25	-0.26	0	0	0	0	0	0
5/3/2024 21:52	64302	LINC_T2	0	0	0	0	0	0	0.81	0.78	0	0	0	0	0	0
5/3/2024 21:52	64304	LINC_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 21:55	63602	LETO_T1	0	101	101	0	0.22	0.22	-0.48	-0.48	0	0	0	0	0	0
5/3/2024 21:55	49804	UNIV_T1	0	2	2	0	0.15	0.15	0.49	0.46	0	0	0	0	0	0
5/3/2024 21:56	15704	TANN_T1	0	129	129	0	0.22	0.22	-1.34	-1.45	0	0	0	0	0	0
5/3/2024 21:56	51304	WIND_T2	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
5/3/2024 21:56	16902	MECK_T1	0	3	3	0	0.1	0.1	0.05	0.04	0	0	0	0	0	0
5/3/2024 21:56	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 21:56	62605	ENGL_T1	0	0	0	0	0	0	-0.72	-0.76	0	0	0	0	0	0
5/3/2024 21:56	51302	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 21:56	15701	TANN_T1	1	19	18	5	0.42	-4.58	0	0	0	0	0	0	0	0
5/3/2024 21:57	65003	NEFF_T2	4	4	0	0.15	0.28	0.13	0	0	0	0	0	0	0	0
5/3/2024 21:57	67804	WLAN_T1	0	0	0	0	0	0	-1.11	-1.13	0	0	0	0	0	0
5/3/2024 21:57	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 21:57	65001	NEFF_T2	235	247	12	0.46	0.62	0.16	0	0	0	0	0	0	0	0
5/3/2024 21:57	67805	WLAN_T1	27	408	381	0.11	0.25	0.14	0	0	0	0	0	0	0	0
5/3/2024 21:57	65004	NEFF_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
5/3/2024 21:58	62105	ELAN_T1	0	23	23	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 21:58	67502	WEWI_T2	85	213	128	0.16	0.24	0.08	-1.55	-1.57	1	1	0	900	900	0
5/3/2024 21:58	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/3/2024 21:58	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/3/2024 21:58	17002	RIRO_T2	309	430	121	0.25	0.3	0.05	0.29	0.28	0	0	0	0	0	0
5/3/2024 21:58	62104	ELAN_T1	0	0	0	0	0	0	1.54	1.09	0	0	0	0	0	0
5/3/2024 21:59	24801	VALM_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
5/3/2024 21:59	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 21:59	40502	CRES_T2	20	29	9	0.26	0.38	0.12	0.44	0.42	0	0	0	0	0	0
5/3/2024 21:59	25404	LAHA_T2	0	12	12	0	0.12	0.12	0	0	0	0	0	0	0	0
5/3/2024 21:59	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 21:59	67805	WLAN_T1	27	408	381	0.11	0.25	0.14	-1.57	-1.59	0	0	0	0	0	0
5/3/2024 21:59	40501	CRES_T2	2	8	6	0.2	0.26	0.06	0	0	0	0	0	0	0	0
5/3/2024 21:59	10602	BLGL_T2	9	20	11	0.12	0.12	0	0.14	0.11	0	0	0	0	0	0
5/3/2024 21:59	45902	AUBU_T1	0	0	0	0	0	0	-1.25	-1.35	0	0	0	0	0	0
5/3/2024 21:59	40802	EXCH_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/3/2024 21:59	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 21:59	59201	THOM_T1	32	56	24	0.4	0.47	0.07	0	0	0	0	0	0	0	0
5/3/2024 21:59	57403	SPAN_T1	0	16	16	0	0.21	0.21	0	0	0	0	0	0	0	0
5/3/2024 21:59	59202	THOM_T1	349	515	166	0.53	0.59	0.06	0	0	0	0	0	0	0	0
5/3/2024 21:59	25402	LAHA_T2	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
5/3/2024 21:59	57401	SPAN_T1	0	2	2	0	0.5	0.5	-1.05	-0.74	1	1	0	600	600	0
5/3/2024 22:00	42701	AUGU_T1	1	1	0	0.3	0.1	-0.2	0	0	2	2	0	1800	1800	0
5/3/2024 22:00	46801	HEPB_T2	2	3	1	0.55	0.6	0.05	0	0	0	0	0	0	0	0
5/3/2024 22:00	62105	ELAN_T1	23	0	-23	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 22:00	13501	MCMI_T1	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
5/3/2024 22:00	13901	SEID_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
5/3/2024 22:00	13502	MCMI_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
5/3/2024 22:00	55001	NEWP_T1	23	0	-23	0.16	0	-0.16	0	0	0	0	0	0	0	0
5/3/2024 22:00	67605	WARW_T1	46	12	-34	0.63	0.44	-0.19	-0.99	-1.04	0	0	0	0	0	0
5/3/2024 22:00	62103	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 22:00	62101	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 22:00	67002	STHI_T2	413	0	-413	0.24	0	-0.24	0.63	0.55	0	0	0	0	0	0
5/3/2024 22:00	62104	ELAN_T1	0	0	0	0	0	0	1.54	1.09	0	0	0	0	0	0
5/3/2024 22:00	55002	NEWP_T1	6	4	-2	1.47	0.65	-0.82	-0.26	-0.29	0	0	0	0	0	0
5/3/2024 22:00	45902	AUBU_T1	0	0	0	0	0	0	-1.25	-1.35	0	0	0	0	0	0
5/3/2024 22:00	67001	STHI_T2	840	0	-840	0.39	0	-0.39	0	0	0	0	0	0	0	0
5/3/2024 22:00	46803	HEPB_T2	0	1	1	0	0.1	0.1	0.45	0.44	0	0	0	0	0	0
5/3/2024 22:00	60101	COCA_T1	0	0	0	0	0	0	0.19	0.16	0	0	0	0	0	0
5/3/2024 22:01	67805	WLAN_T1	230	463	233	0.16	0.33	0.17	0	0	0	0	0	0	0	0
5/3/2024 22:01	62102	ELAN_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
5/3/2024 22:01	65502	MOJO_T2	330	0	-330	0.46	0	-0.46	0	0	0	0	0	0	0	0
5/3/2024 22:01	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
5/3/2024 22:01	11601	CEAL_T1	2	8	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
5/3/2024 22:01	67803	WLAN_T1	0	3	3	0	0.13	0.13	-0.9	-0.9	0	0	0	0	0	0
5/3/2024 22:01	15001	BLMO_T1	4	4	0	0.65	1.2	0.55	0	0	0	0	0	0	0	0
5/3/2024 22:01	51305	WIND_T1	0	0	0	0	0	0	0.15	0.09	0	0	0	0	0	0
5/3/2024 22:01	54505	ENOL_T2	1	1	0	1.2	0.9	-0.3	-1.3	-1.31	1	1	0	600	600	0
5/3/2024 22:01	54501	ENOL_T2	4	3	-1	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
5/3/2024 22:01	64501	LAVI_T1	51	0	-51	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/3/2024 22:01	64503	LAVI_T1	10	0	-10	0.12	0	-0.12	-0.39	-0.49	1	1	0	1200	1200	0
5/3/2024 22:01	48301	ORWI_T1	2	2	0	6.1	5.4	-0.7	0	0	0	0	0	0	0	0
5/3/2024 22:01	62101	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 22:01	62103	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 22:01	64502	LAVI_T1	9	0	-9	0.11	0	-0.11	0	0	0	0	0	0	0	0
5/3/2024 22:01	62105	ELAN_T1	23	0	-23	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 22:01	57403	SPAN_T1	16	0	-16	0.21	0	-0.21	0	0	0	0	0	0	0	0
5/3/2024 22:01	54502	ENOL_T2	1	1	0	1.6	0.8	-0.8	0	0	0	0	0	0	0	0
5/3/2024 22:01	65503	MOJO_T2	349	0	-349	0.3	0	-0.3	-0.35	-0.43	0	0	0	0	0	0
5/3/2024 22:01	57401	SPAN_T1	2	0	-2	0.5	0	-0.5	-1.05	-0.74	1	1	0	600	600	0
5/3/2024 22:02	13704	SCHN_T2	3	9	6	0.13	0.22	0.09	-0.48	-0.48	0	0	0	0	0	0
5/3/2024 22:02	29401	BELT_T1	15	0	-15	0.13	0	-0.13	0	0	2	2	0	1800	1800	0
5/3/2024 22:02	13701	SCHN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 22:02	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 22:02	63305	GREE_T1	1	3	2	0.2	0.15	-0.05	-1.35	-1.33	0	0	0	0	0	0
5/3/2024 22:02	67805	WLAN_T1	230	463	233	0.16	0.33	0.17	0	0	0	0	0	0	0	0
5/3/2024 22:02	59201	THOM_T1	56	11	-45	0.47	0.17	-0.3	0	0	0	0	0	0	0	0
5/3/2024 22:02	64501	LAVI_T1	51	0	-51	0.14	0	-0.14	-0.41	-0.44	0	0	0	0	0	0
5/3/2024 22:02	29402	BELT_T1	1	1	0	9.2	8.7	-0.5	0	0	0	0	0	0	0	0
5/3/2024 22:02	59102	WALK_T2	9	0	-9	0.11	0	-0.11	0	0	0	0	0	0	0	0
5/3/2024 22:02	24201	PROV_T3	1	1	0	7.7	7.2	-0.5	-0.14	-0.16	0	0	0	0	0	0
5/3/2024 22:02	64503	LAVI_T1	10	0	-10	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/3/2024 22:02	67502	WEWI_T2	209	86	-123	0.24	0.18	-0.06	-1.55	-1.57	1	1	0	900	900	0
5/3/2024 22:02	55001	NEWP_T1	23	0	-23	0.16	0	-0.16	0	0	0	0	0	0	0	0
5/3/2024 22:02	59202	THOM_T1	515	85	-430	0.59	0.18	-0.41	0	0	0	0	0	0	0	0
5/3/2024 22:02	62105	ELAN_T1	23	0	-23	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 22:02	62102	ELAN_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
5/3/2024 22:02	43302	WATS_T2	4	4	0	0.18	0.48	0.3	0	0	0	0	0	0	0	0
5/3/2024 22:02	64502	LAVI_T1	9	0	-9	0.11	0	-0.11	0	0	0	0	0	0	0	0
5/3/2024 22:02	24204	PROV_T3	1	1	0	5.6	6.1	0.5	0	0	0	0	0	0	0	0
5/3/2024 22:02	67605	WARW_T1	46	12	-34	0.63	0.44	-0.19	-0.99	-1.04	0	0	0	0	0	0
5/3/2024 22:02	67804	WLAN_T1	0	0	0	0	0	0	-1.11	-1.13	0	0	0	0	0	0
5/3/2024 22:02	43301	WATS_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/3/2024 22:02	67803	WLAN_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/3/2024 22:02	59101	WALK_T2	0	0	0	0	0	0	0.86	1.07	0	0	0	0	0	0
5/3/2024 22:02	62101	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 22:02	55002	NEWP_T1	6	4	-2	1.47	0.65	-0.82	-0.26	-0.29	0	0	0	0	0	0
5/3/2024 22:02	62103	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 22:03	11504	FREE_T1	0	0	0	0	0	0	-1.29	-1.39	1	1	0	1200	1200	0
5/3/2024 22:03	59002	MIFF_T1	6	1	-5	0.83	0.1	-0.73	0	0	0	0	0	0	0	0
5/3/2024 22:03	62101	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 22:03	62105	ELAN_T1	23	0	-23	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 22:03	54501	ENOL_T2	4	3	-1	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
5/3/2024 22:03	54502	ENOL_T2	1	1	0	1.6	0.8	-0.8	-1.15	-1.16	0	0	0	0	0	0
5/3/2024 22:03	62103	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 22:03	25503	MADI_T1	335	581	246	0.5	0.63	0.13	-1.08	-1.09	0	0	0	0	0	0
5/3/2024 22:03	13502	MCMI_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
5/3/2024 22:03	59001	MIFF_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 22:03	54505	ENOL_T2	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
5/3/2024 22:03	59003	MIFF_T1	1	1	0	1	0.1	-0.9	0.35	0.3	0	0	0	0	0	0
5/3/2024 22:03	25501	MADI_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/3/2024 22:03	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
5/3/2024 22:03	62102	ELAN_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
5/3/2024 22:04	63305	GREE_T1	1	3	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/3/2024 22:04	56801	BENV_T1	20	14	-6	0.8	0.42	-0.38	0	0	0	0	0	0	0	0
5/3/2024 22:04	40601	PIGR_T1	114	16	-98	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
5/3/2024 22:04	67605	WARW_T1	46	12	-34	0.63	0.44	-0.19	-0.99	-1.04	0	0	0	0	0	0
5/3/2024 22:04	65502	MOJO_T2	330	0	-330	0.46	0	-0.46	0	0	0	0	0	0	0	0
5/3/2024 22:04	65503	MOJO_T2	349	0	-349	0.3	0	-0.3	-0.35	-0.43	0	0	0	0	0	0
5/3/2024 22:04	63402	HONY_T2	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
5/3/2024 22:04	67801	WLAN_T1	0	0	0	0	0	0	0.96	0.95	0	0	0	0	0	0
5/3/2024 22:04	63403	HONY_T2	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
5/3/2024 22:04	40602	PIGR_T1	0	1	1	0	0.2	0.2	1.06	1.12	0	0	0	0	0	0
5/3/2024 22:04	45901	AUBU_T1	0	0	0	0	0	0	1.77	1.68	0	0	0	0	0	0
5/3/2024 22:04	67803	WLAN_T1	0	3	3	0	0.13	0.13	-0.9	-0.9	0	0	0	0	0	0
5/3/2024 22:04	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 22:04	63304	GREE_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
5/3/2024 22:04	67502	WEWI_T2	209	86	-123	0.24	0.18	-0.06	-1.55	-1.57	1	1	0	900	900	0
5/3/2024 22:04	67805	WLAN_T1	230	463	233	0.16	0.33	0.17	0	0	0	0	0	0	0	0
5/3/2024 22:04	64902	MILL_T2	0	0	0	0	0	0	-0.41	-0.33	0	0	0	0	0	0
5/3/2024 22:04	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 22:04	56501	ROCK_T2	2	2	0	0.45	0.2	-0.25	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 22:04	56803	BENV_T1	0	1	1	0	0	0	-0.11	-0.11	1	1	0	600	600	0
5/3/2024 22:04	62605	ENGL_T1	0	0	0	0	0	0	-0.72	-0.76	0	0	0	0	0	0
5/3/2024 22:05	40502	CRES_T2	29	4	-25	0.38	0.23	-0.15	0.44	0.42	0	0	0	0	0	0
5/3/2024 22:05	40501	CRES_T2	8	0	-8	0.26	0	-0.26	0	0	0	0	0	0	0	0
5/3/2024 22:05	11303	EMMA_T1	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
5/3/2024 22:05	55002	NEWP_T1	6	4	-2	1.47	0.65	-0.82	-0.26	-0.29	0	0	0	0	0	0
5/3/2024 22:05	20401	ASHF_T2	14	2	-12	0.28	0.5	0.22	0	0	0	0	0	0	0	0
5/3/2024 22:05	20403	ASHF_T2	43	43	0	1.74	1.08	-0.66	0.07	0.06	0	0	0	0	0	0
5/3/2024 22:05	44301	BEAV_T2	0	0	0	0	0	0	0.23	0.19	1	1	0	600	600	0
5/3/2024 22:05	55001	NEWP_T1	23	0	-23	0.16	0	-0.16	0	0	0	0	0	0	0	0
5/3/2024 22:05	65602	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/3/2024 22:05	44601	SALE_T2	1	1	0	0.5	0.7	0.2	-0.1	-0.11	0	0	0	0	0	0
5/3/2024 22:05	45901	AUBU_T1	0	0	0	0	0	0	1.77	1.68	0	0	0	0	0	0
5/3/2024 22:05	63602	LETO_T1	49	144	95	0.13	0.31	0.18	-0.48	-0.48	0	0	0	0	0	0
5/3/2024 22:05	65601	QVIL_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 22:05	45902	AUBU_T1	0	0	0	0	0	0	-0.62	-0.67	0	0	0	0	0	0
5/3/2024 22:05	43102	SMIL_T2	7	8	1	0.74	0.54	-0.2	-0.84	-0.86	1	1	0	600	600	0
5/3/2024 22:05	57403	SPAN_T1	16	0	-16	0.21	0	-0.21	0	0	0	0	0	0	0	0
5/3/2024 22:05	10805	CHHI_T2	1	1	0	7.6	7.7	0.1	-0.8	-0.65	0	0	0	0	0	0
5/3/2024 22:05	43103	SMIL_T2	22	21	-1	0.57	0.52	-0.05	0	0	0	0	0	0	0	0
5/3/2024 22:05	43105	SMIL_T2	14	9	-5	0.21	0.14	-0.07	0	0	0	0	0	0	0	0
5/3/2024 22:05	65603	QVIL_T2	0	0	0	0	0	0	0.04	0.15	0	0	0	0	0	0
5/3/2024 22:05	28805	LAKE_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
5/3/2024 22:05	57401	SPAN_T1	2	0	-2	0.5	0	-0.5	-1.05	-0.74	1	1	0	600	600	0
5/3/2024 22:05	65702	RVIL_T2	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
5/3/2024 22:05	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 22:06	62103	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 22:06	66501	SMAN_T2	37	0	-37	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/3/2024 22:06	66505	SMAN_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 22:06	42802	SELI_T1	0	0	0	0	0	0	-0.81	-0.02	0	0	0	0	0	0
5/3/2024 22:06	62105	ELAN_T1	23	0	-23	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 22:06	42701	AUGU_T1	1	1	0	0.3	0.1	-0.2	0	0	4	4	0	3600	3600	0
5/3/2024 22:06	53501	EVIL_T2	4	6	2	1.38	1.35	-0.03	0	0	0	0	0	0	0	0
5/3/2024 22:06	66502	SMAN_T2	8	0	-8	0.13	0	-0.13	0.03	-0.33	0	0	0	0	0	0
5/3/2024 22:06	23203	HIRU_T2	0	0	0	0	0	0	0.06	-0.07	0	0	0	0	0	0
5/3/2024 22:06	67803	WLAN_T1	0	3	3	0	0.13	0.13	-0.9	-0.9	0	0	0	0	0	0
5/3/2024 22:06	41801	GOCI_T2	120	36	-84	0.29	0.15	-0.14	0	0	0	0	0	0	0	0
5/3/2024 22:06	62101	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 22:06	46002	BERW_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
5/3/2024 22:06	60502	NMAN_T2	35	0	-35	0.19	0	-0.19	-0.55	-0.61	0	0	0	0	0	0
5/3/2024 22:06	40502	CRES_T2	29	4	-25	0.38	0.23	-0.15	0.44	0.42	0	0	0	0	0	0
5/3/2024 22:06	64501	LAVI_T1	51	0	-51	0.14	0	-0.14	-0.41	-0.44	0	0	0	0	0	0
5/3/2024 22:06	44301	BEAV_T2	0	0	0	0	0	0	0.23	0.19	1	1	0	600	600	0
5/3/2024 22:06	15001	BLMO_T1	4	4	0	0.65	1.2	0.55	0	0	0	0	0	0	0	0
5/3/2024 22:06	49803	UNIV_T1	0	0	0	0	0	0	-1.11	-1.16	0	0	0	0	0	0
5/3/2024 22:06	20401	ASHF_T2	14	2	-12	0.28	0.5	0.22	0	0	0	0	0	0	0	0
5/3/2024 22:06	53502	EVIL_T2	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
5/3/2024 22:06	64503	LAVI_T1	10	0	-10	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/3/2024 22:06	10801	CHHI_T1	0	0	0	0	0	0	-2	-2.02	2	2	0	1800	1800	0
5/3/2024 22:06	67203	TEHI_T1	0	0	0	0	0	0	1.46	1.4	0	1	1	0	900	900
5/3/2024 22:06	66503	SMAN_T2	6	0	-6	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 22:06	28704	HAML_T2	1	1	0	0.4	0.6	0.2	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 22:06	67401	WAKE_T2	0	11	11	0	0.11	0.11	0	0	0	0	0	0	0	0
5/3/2024 22:06	66504	SMAN_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 22:06	67805	WLAN_T1	230	463	233	0.16	0.33	0.17	0	0	0	0	0	0	0	0
5/3/2024 22:06	67402	WAKE_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
5/3/2024 22:06	60501	NMAN_T2	64	3	-61	0.53	4.43	3.9	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/3/2024 22:06	49804	UNIV_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/3/2024 22:06	47102	MARL_T2	16	2	-14	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
5/3/2024 22:06	20403	ASHF_T2	43	43	0	1.74	1.08	-0.66	0.07	0.06	0	0	0	0	0	0
5/3/2024 22:06	62102	ELAN_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
5/3/2024 22:06	64601	LEOL_T1	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
5/3/2024 22:06	48302	ORWI_T2	2	2	0	1.95	1.3	-0.65	0	0	0	0	0	0	0	0
5/3/2024 22:06	10805	CHHI_T2	1	1	0	7.6	7.7	0.1	-0.8	-0.65	0	0	0	0	0	0
5/3/2024 22:06	40501	CRES_T2	8	0	-8	0.26	0	-0.26	0	0	0	0	0	0	0	0
5/3/2024 22:06	14404	SSLA_T1	2	1	-1	3.35	5.8	2.45	-0.02	-0.04	0	0	0	0	0	0
5/3/2024 22:06	64902	MILL_T2	0	0	0	0	0	0	-0.41	-0.33	0	0	0	0	0	0
5/3/2024 22:06	64502	LAVI_T1	9	0	-9	0.11	0	-0.11	0	0	0	0	0	0	0	0
5/3/2024 22:06	28703	HAML_T2	3	3	0	0.17	0.53	0.36	0	0	0	0	0	0	0	0
5/3/2024 22:06	14203	EALL_T1	0	0	0	0	0	0	-0.47	-0.43	1	1	0	1200	1200	0
5/3/2024 22:06	41802	GOCI_T2	18	0	-18	0.33	0	-0.33	0	0	0	0	0	0	0	0
5/3/2024 22:06	47103	MARL_T2	52	2	-50	0.25	0.1	-0.15	-0.65	-0.65	0	0	0	0	0	0
5/3/2024 22:07	62106	ELAN_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
5/3/2024 22:07	54501	ENOL_T2	4	3	-1	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
5/3/2024 22:07	13302	ORVI_T2	0	0	0	0	0	0	1.36	1.2	0	0	0	0	0	0
5/3/2024 22:07	24801	VALM_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
5/3/2024 22:07	54201	PENN_T1	10	9	-1	1.03	0.87	-0.16	0	0	0	0	0	0	0	0
5/3/2024 22:07	62103	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 22:07	62101	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 22:07	20401	ASHF_T2	14	2	-12	0.28	0.5	0.22	0	0	0	0	0	0	0	0
5/3/2024 22:07	56802	BENV_T2	253	28	-225	0.53	0.13	-0.4	-0.71	-0.67	0	0	0	0	0	0
5/3/2024 22:07	53502	EVIL_T2	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
5/3/2024 22:07	14802	TREI_T2	6	0	-6	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/3/2024 22:07	48302	ORWI_T2	2	2	0	1.95	1.3	-0.65	-0.11	-0.14	0	0	0	0	0	0
5/3/2024 22:07	54505	ENOL_T2	1	0	-1	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
5/3/2024 22:07	62105	ELAN_T1	23	0	-23	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 22:07	14404	SSLA_T1	2	1	-1	3.35	5.8	2.45	-0.02	-0.04	0	0	0	0	0	0
5/3/2024 22:07	54502	ENOL_T2	1	1	0	1.6	0.8	-0.8	-1.15	-1.16	0	0	0	0	0	0
5/3/2024 22:07	41502	FAIR_T2	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
5/3/2024 22:07	15001	BLMO_T1	4	4	0	0.65	1.2	0.55	0	0	0	0	0	0	0	0
5/3/2024 22:07	41801	GOCI_T2	120	36	-84	0.29	0.15	-0.14	0	0	0	0	0	0	0	0
5/3/2024 22:07	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 22:07	41802	GOCI_T2	18	0	-18	0.33	0	-0.33	0	0	0	0	0	0	0	0
5/3/2024 22:07	46001	BERW_T1	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
5/3/2024 22:07	14801	TREI_T2	2	0	-2	0.1	0	-0.1	0.31	0.31	0	0	0	0	0	0
5/3/2024 22:07	20403	ASHF_T2	43	43	0	1.74	1.08	-0.66	0.07	0.06	0	0	0	0	0	0
5/3/2024 22:07	54203	PENN_T1	18	18	0	1.47	1.16	-0.31	0.07	0.07	0	0	0	0	0	0
5/3/2024 22:07	53501	EVIL_T2	4	6	2	1.38	1.35	-0.03	0	0	0	0	0	0	0	0
5/3/2024 22:07	45902	AUBU_T1	0	0	0	0	0	0	-0.62	-0.67	0	0	0	0	0	0
5/3/2024 22:08	54501	ENOL_T2	4	3	-1	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
5/3/2024 22:08	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 22:08	61102	BERK_T5	1	0	-1	0.3	0	-0.3	0.34	0.25	1	1	0	300	300	0
5/3/2024 22:08	43103	SMIL_T2	22	21	-1	0.57	0.52	-0.05	0	0	0	0	0	0	0	0
5/3/2024 22:08	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 22:08	43105	SMIL_T2	14	9	-5	0.21	0.14	-0.07	0	0	0	0	0	0	0	0
5/3/2024 22:08	56601	HAMP_T1	0	0	0	0	0	0	-1.9	-1.94	0	0	0	0	0	0
5/3/2024 22:08	54505	ENOL_T2	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
5/3/2024 22:08	54503	ENOL_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/3/2024 22:08	61101	BERK_T5	10	0	-10	0.23	0	-0.23	0	0	0	0	0	0	0	0
5/3/2024 22:08	43102	SMIL_T2	7	8	1	0.74	0.54	-0.2	-0.84	-0.86	1	1	0	600	600	0
5/3/2024 22:08	56501	ROCK_T2	2	2	0	0.45	0.2	-0.25	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 22:08	61103	BERK_T5	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/3/2024 22:08	54502	ENOL_T2	1	1	0	1.6	0.8	-0.8	0	0	0	0	0	0	0	0
5/3/2024 22:09	61102	BERK_T5	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/3/2024 22:09	67803	WLAN_T1	0	3	3	0	0.13	0.13	-0.9	-0.93	0	0	0	0	0	0
5/3/2024 22:09	61101	BERK_T5	10	0	-10	0.23	0	-0.23	0	0	0	0	0	0	0	0
5/3/2024 22:09	43201	MVIL_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/3/2024 22:09	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 22:09	55001	NEWP_T1	23	0	-23	0.16	0	-0.16	-0.27	-0.29	0	0	0	0	0	0
5/3/2024 22:09	59101	WALK_T2	0	0	0	0	0	0	1.07	1.31	0	0	0	0	0	0
5/3/2024 22:09	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 22:09	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	0.73	0.71	0	0	0	0	0	0
5/3/2024 22:09	62101	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 22:09	62103	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 22:09	56501	ROCK_T2	2	2	0	0.45	0.2	-0.25	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 22:09	18001	ZION_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 22:09	57403	SPAN_T1	16	0	-16	0.21	0	-0.21	0	0	0	0	0	0	0	0
5/3/2024 22:09	14603	SWHI_T1	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
5/3/2024 22:09	61103	BERK_T5	2	0	-2	0.15	0	-0.15	-0.01	0.04	0	0	0	0	0	0
5/3/2024 22:09	61801	EELI_T2	1	1	0	0.6	0.4	-0.2	-0.96	-0.98	1	1	0	600	600	0
5/3/2024 22:09	62105	ELAN_T1	23	0	-23	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 22:09	67805	WLAN_T1	230	463	233	0.16	0.33	0.17	0	0	0	0	0	0	0	0
5/3/2024 22:09	57401	SPAN_T1	2	0	-2	0.5	0	-0.5	-0.74	-0.82	1	1	0	600	600	0
5/3/2024 22:09	59102	WALK_T2	9	0	-9	0.11	0	-0.11	0	0	0	0	0	0	0	0
5/3/2024 22:09	55002	NEWP_T1	6	4	-2	1.47	0.65	-0.82	0	0	0	0	0	0	0	0
5/3/2024 22:09	43202	MVIL_T2	198	199	1	1.13	0.38	-0.75	-0.77	-0.77	0	0	0	0	0	0
5/3/2024 22:09	62102	ELAN_T1	0	0	0	0	0	0	0.64	0.66	0	0	0	0	0	0
5/3/2024 22:10	15104	UPHA_T2	0	23	23	0	0.14	0.14	0	0	0	0	0	0	0	0
5/3/2024 22:10	57401	SPAN_T1	2	0	-2	0.5	0	-0.5	-0.74	-0.82	1	1	0	600	600	0
5/3/2024 22:10	56501	ROCK_T2	2	2	0	0.45	0.2	-0.25	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 22:10	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
5/3/2024 22:10	21901	HUMB_T1	0	0	0	0	0	0	-0.92	-0.95	0	0	0	0	0	0
5/3/2024 22:10	40602	PIGR_T1	0	1	1	0	0.2	0.2	0.56	0.49	0	0	0	0	0	0
5/3/2024 22:10	46004	BERW_T2	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
5/3/2024 22:10	42201	SHEN_T2	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
5/3/2024 22:10	56802	BENV_T2	253	28	-225	0.53	0.13	-0.4	-0.67	-0.74	0	0	0	0	0	0
5/3/2024 22:10	40601	PIGR_T1	114	16	-98	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
5/3/2024 22:10	29401	BELT_T1	15	0	-15	0.13	0	-0.13	0	0	1	1	0	900	900	0
5/3/2024 22:10	64801	MONE_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/3/2024 22:10	15001	BLMO_T1	4	4	0	0.65	1.2	0.55	0	0	0	0	0	0	0	0
5/3/2024 22:10	15103	UPHA_T2	3	201	198	0.1	0.18	0.08	0.36	0.32	0	0	0	0	0	0
5/3/2024 22:10	64802	MONE_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
5/3/2024 22:10	29402	BELT_T1	1	1	0	9.2	8.7	-0.5	0	0	0	0	0	0	0	0
5/3/2024 22:10	10805	CHHI_T2	1	1	0	7.6	7.7	0.1	-0.65	-0.76	0	0	0	0	0	0
5/3/2024 22:10	57403	SPAN_T1	16	0	-16	0.21	0	-0.21	0	0	0	0	0	0	0	0
5/3/2024 22:11	61103	BERK_T5	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/3/2024 22:11	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/3/2024 22:11	66303	MCGO_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/3/2024 22:11	65702	RVIL_T2	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
5/3/2024 22:11	28403	HART_T2	0	0	0	0	0	0	-0.91	-0.94	1	1	0	900	900	0
5/3/2024 22:11	13704	SCHN_T2	3	9	6	0.13	0.22	0.09	-0.48	-0.49	0	0	0	0	0	0
5/3/2024 22:11	66505	SMAN_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/3/2024 22:11	66302	MCGO_T2	0	0	0	0	0	0	-1.5	-1.56	1	1	0	600	600	0
5/3/2024 22:11	66501	SMAN_T2	37	0	-37	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/3/2024 22:11	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2024 22:11	13701	SCHN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 22:11	66504	SMAN_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 22:11	66503	SMAN_T2	6	0	-6	0.2	0	-0.2	0.38	0.31	0	0	0	0	0	0
5/3/2024 22:11	47103	MARL_T2	52	2	-50	0.25	0.1	-0.15	-0.65	-0.72	0	0	0	0	0	0
5/3/2024 22:11	67201	TEHI_T1	0	0	0	0	0	0	0.24	0.29	0	0	0	0	0	0
5/3/2024 22:11	66502	SMAN_T2	8	0	-8	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/3/2024 22:11	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
5/3/2024 22:11	47102	MARL_T2	16	2	-14	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
5/3/2024 22:11	61102	BERK_T5	1	0	-1	0.3	0	-0.3	0.34	0.25	1	1	0	300	300	0
5/3/2024 22:11	61101	BERK_T5	10	0	-10	0.23	0	-0.23	0	0	0	0	0	0	0	0
5/3/2024 22:11	67401	WAKE_T2	0	11	11	0	0.11	0.11	-0.94	-0.93	0	0	0	0	0	0
5/3/2024 22:11	60102	COCA_T1	0	0	0	0	0	0	0.2	0.11	2	2	0	1200	1200	0
5/3/2024 22:11	66301	MCGO_T2	166	0	-166	0.22	0	-0.22	0	0	0	0	0	0	0	0
5/3/2024 22:11	40505	CRES_T1	3	3	0	6.67	6.1	-0.57	0.15	0.14	0	0	0	0	0	0
5/3/2024 22:12	66303	MCGO_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/3/2024 22:12	66301	MCGO_T2	166	0	-166	0.22	0	-0.22	0	0	0	0	0	0	0	0
5/3/2024 22:12	51702	OBER_T1	2	2	0	2.9	2.55	-0.35	-0.95	-0.96	1	1	0	600	600	0
5/3/2024 22:12	67605	WARW_T1	46	12	-34	0.63	0.44	-0.19	0	0	0	0	0	0	0	0
5/3/2024 22:12	65601	QVIL_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 22:12	66302	MCGO_T2	0	0	0	0	0	0	-2.99	-3.12	2	2	0	1200	1200	0
5/3/2024 22:12	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
5/3/2024 22:12	45902	AUBU_T1	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
5/3/2024 22:12	56802	BENV_T2	253	28	-225	0.53	0.13	-0.4	-0.67	-0.74	0	0	0	0	0	0
5/3/2024 22:12	65602	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/3/2024 22:12	67604	WARW_T1	0	0	0	0	0	0	0.5	0.46	0	0	0	0	0	0
5/3/2024 22:12	14801	TREI_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/3/2024 22:12	14802	TREI_T2	6	0	-6	0.12	0	-0.12	0.25	0.23	0	0	0	0	0	0
5/3/2024 22:12	65603	QVIL_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
5/3/2024 22:13	43102	SMIL_T2	7	8	1	0.74	0.54	-0.2	-0.86	-0.89	1	1	0	600	600	0
5/3/2024 22:13	43103	SMIL_T2	22	21	-1	0.57	0.52	-0.05	0	0	0	0	0	0	0	0
5/3/2024 22:13	43105	SMIL_T2	14	9	-5	0.21	0.14	-0.07	0	0	0	0	0	0	0	0
5/3/2024 22:14	41802	GOCI_T2	18	0	-18	0.33	0	-0.33	0	0	0	0	0	0	0	0
5/3/2024 22:14	41801	GOCI_T2	120	36	-84	0.29	0.15	-0.14	0	0	0	0	0	0	0	0
5/3/2024 22:14	61304	EARL_T1	29	0	-29	0.19	0	-0.19	-1.11	-1.07	1	1	0	600	600	0
5/3/2024 22:15	61304	EARL_T1	0	0	0	0	0	0	-1.11	-1.07	1	1	0	600	600	0
5/3/2024 22:15	23001	SAJO_T1	1	0	-1	0.2	0	-0.2	0.11	0.05	0	0	0	0	0	0
5/3/2024 22:16	65802	RTWN_T2	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
5/3/2024 22:16	11303	EMMA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/3/2024 22:16	11301	EMMA_T1	0	0	0	0	0	0	-0.85	-0.9	0	0	0	0	0	0
5/3/2024 22:18	41301	FISH_T1	2	2	0	0.85	1.35	0.5	-0.08	-0.08	0	0	0	0	0	0
5/3/2024 22:26	67505	WEWI_T1	0	0	0	0	0	0	-0.29	-0.32	1	1	0	900	900	0
5/3/2024 22:32	59202	THOM_T1	14	3	-11	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/3/2024 22:32	59201	THOM_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/4/2024 6:52	15001	BLMO_T1	0	4	4	0	0.48	0.48	0	0	0	0	0	0	0	0
5/4/2024 7:13	40505	CRES_T1	3	3	0	6.17	6.1	-0.07	0.15	0.14	0	0	0	0	0	0
5/4/2024 7:20	44903	SCOT_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
5/4/2024 7:22	44903	SCOT_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
5/4/2024 7:23	45902	AUBU_T1	4	3	-1	0.13	0.13	0	-0.62	-0.6	0	0	0	0	0	0
5/4/2024 7:25	45902	AUBU_T1	4	3	-1	0.13	0.13	0	-0.62	-0.6	0	0	0	0	0	0
5/4/2024 7:26	45902	AUBU_T1	4	3	-1	0.13	0.13	0	-0.62	-0.6	0	0	0	0	0	0
5/4/2024 7:26	45901	AUBU_T1	0	0	0	0	0	0	1.89	1.89	0	0	0	0	0	0
5/4/2024 7:31	64701	LITI_T1	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
5/4/2024 7:34	13801	SALI_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
5/4/2024 7:38	45902	AUBU_T1	2	2	0	0.15	0.2	0.05	-0.6	-0.63	0	0	0	0	0	0
5/4/2024 7:41	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/4/2024 7:41	29402	BELT_T1	1	1	0	5.8	7.2	1.4	0	0	0	0	0	0	0	0
5/4/2024 7:43	45902	AUBU_T1	2	2	0	0.15	0.2	0.05	-0.6	-0.63	0	0	0	0	0	0
5/4/2024 7:44	40101	HUNT_T2	0	0	0	0	0	0	-0.82	-0.79	0	0	0	0	0	0
5/4/2024 7:44	29402	BELT_T1	1	1	0	5.8	7.2	1.4	0	0	0	0	0	0	0	0
5/4/2024 7:44	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/4/2024 7:53	45902	AUBU_T1	2	2	0	0.15	0.25	0.1	-0.63	-0.65	0	0	0	0	0	0
5/4/2024 7:58	45902	AUBU_T1	2	2	0	0.15	0.25	0.1	-0.63	-0.65	0	0	0	0	0	0
5/4/2024 7:59	11904	ETEX_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
5/4/2024 7:59	64503	LAVI_T1	0	0	0	0	0	0	-0.87	-0.89	1	1	0	1200	1200	0
5/4/2024 8:00	29402	BELT_T1	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
5/4/2024 8:00	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/4/2024 8:00	64503	LAVI_T1	0	0	0	0	0	0	-1.74	-1.78	2	2	0	2400	2400	0
5/4/2024 8:01	12601	MACA_T1	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
5/4/2024 8:02	43202	MVIL_T2	61	50	-11	0.45	0.23	-0.22	-0.79	-0.78	0	0	0	0	0	0
5/4/2024 8:09	45902	AUBU_T1	2	4	2	0.2	0.23	0.03	-0.65	-0.61	0	0	0	0	0	0
5/4/2024 8:10	25603	ARRO_T1	34	37	3	0.17	0.18	0.01	-0.17	-0.22	0	0	0	0	0	0
5/4/2024 8:11	29402	BELT_T1	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
5/4/2024 8:11	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/4/2024 8:11	20102	AVOC_T1	0	0	0	0	0	0	-0.71	-0.68	0	0	0	0	0	0
5/4/2024 8:13	13801	SALI_T1	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
5/4/2024 8:14	13801	SALI_T1	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
5/4/2024 8:14	45902	AUBU_T1	2	4	2	0.2	0.23	0.03	-0.65	-0.61	0	0	0	0	0	0
5/4/2024 8:14	11903	ETEX_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
5/4/2024 8:15	11903	ETEX_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
5/4/2024 8:18	13901	SEID_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
5/4/2024 8:25	45902	AUBU_T1	2	3	1	0.2	0.27	0.07	-0.61	-0.62	0	0	0	0	0	0
5/4/2024 8:26	25601	ARRO_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
5/4/2024 8:26	25603	ARRO_T1	33	34	1	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
5/4/2024 8:28	20103	AVOC_T1	0	0	0	0	0	0	-0.31	-0.26	0	0	0	0	0	0
5/4/2024 8:30	45902	AUBU_T1	3	1	-2	0.27	0.5	0.23	-0.61	-0.62	0	0	0	0	0	0
5/4/2024 8:40	45902	AUBU_T1	3	1	-2	0.27	0.5	0.23	-0.62	-0.61	0	0	0	0	0	0
5/4/2024 8:41	48302	ORWI_T2	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/4/2024 8:41	45902	AUBU_T1	3	1	-2	0.27	0.5	0.23	-1.24	-1.22	0	0	0	0	0	0
5/4/2024 8:43	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 8:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 8:46	45902	AUBU_T1	1	1	0	0.5	0.1	-0.4	-0.62	-0.61	0	0	0	0	0	0
5/4/2024 8:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 8:50	13303	ORVI_T1	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
5/4/2024 8:51	55102	WERT_T2	0	0	0	0	0	0	-1.14	-1.15	2	2	0	1200	1200	0
5/4/2024 8:53	67605	WARW_T1	14	15	1	0.45	0.55	0.1	0	0	0	0	0	0	0	0
5/4/2024 8:53	57403	SPAN_T1	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
5/4/2024 8:53	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 8:53	67604	WARW_T1	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
5/4/2024 8:55	29402	BELT_T1	40	44	4	0.71	0.64	-0.07	0	0	0	0	0	0	0	0
5/4/2024 8:55	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/4/2024 8:55	45902	AUBU_T1	1	1	0	0.5	0.1	-0.4	-0.61	-0.59	0	0	0	0	0	0
5/4/2024 8:56	45902	AUBU_T1	1	1	0	0.5	0.1	-0.4	-0.61	-0.59	0	0	0	0	0	0
5/4/2024 8:57	45902	AUBU_T1	1	1	0	0.5	0.1	-0.4	-0.61	-0.59	0	0	0	0	0	0
5/4/2024 8:57	29402	BELT_T1	40	44	4	0.71	0.64	-0.07	0	0	0	0	0	0	0	0
5/4/2024 8:57	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/4/2024 8:58	53903	HALI_T2	2	2	0	0.9	1.6	0.7	-0.21	-0.2	0	0	0	0	0	0
5/4/2024 8:58	53901	HALI_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/4/2024 8:58	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
5/4/2024 8:59	53901	HALI_T2	1	1	0	0.5	0.8	0.3	-1.12	-1.15	0	0	0	0	0	0
5/4/2024 8:59	53903	HALI_T2	2	2	0	0.9	1.6	0.7	0	0	0	0	0	0	0	0
5/4/2024 8:59	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
5/4/2024 9:01	53902	HALI_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
5/4/2024 9:01	53903	HALI_T2	2	2	0	1.6	1.5	-0.1	-0.41	-0.39	0	0	0	0	0	0
5/4/2024 9:01	53901	HALI_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
5/4/2024 9:02	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 9:02	65205	PRIN_T1	1	1	0	2.2	2	-0.2	0	0	0	0	0	0	0	0
5/4/2024 9:03	65207	PRIN_T4	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/4/2024 9:13	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 9:22	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.59	-0.59	0	0	0	0	0	0
5/4/2024 9:28	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.59	-0.57	0	0	0	0	0	0
5/4/2024 9:31	65401	MARI_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
5/4/2024 9:32	65401	MARI_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
5/4/2024 9:33	13801	SALI_T1	0	0	0	0	0	0	0.71	0.78	0	0	0	0	0	0
5/4/2024 9:33	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
5/4/2024 9:33	53903	HALI_T2	2	2	0	1.5	1.4	-0.1	-0.21	-0.19	0	0	0	0	0	0
5/4/2024 9:33	58401	MORO_T1	0	0	0	0	0	0	-1.27	-1.26	1	1	0	600	600	0
5/4/2024 9:33	53901	HALI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/4/2024 9:34	13801	SALI_T1	0	0	0	0	0	0	0.71	0.78	0	0	0	0	0	0
5/4/2024 9:35	41902	REED_T1	3	0	-3	0.7	0	-0.7	0.76	0.78	0	0	0	0	0	0
5/4/2024 9:38	45902	AUBU_T1	1	3	2	0.1	0.23	0.13	-0.57	-0.6	0	0	0	0	0	0
5/4/2024 9:43	45902	AUBU_T1	1	3	2	0.1	0.23	0.13	-0.57	-0.6	0	0	0	0	0	0
5/4/2024 9:48	56501	ROCK_T2	0	2	2	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/4/2024 9:49	53903	HALI_T2	2	2	0	1.4	1.2	-0.2	-0.19	-0.2	0	0	0	0	0	0
5/4/2024 9:49	53902	HALI_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
5/4/2024 9:49	53901	HALI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/4/2024 9:52	56501	ROCK_T2	0	2	2	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/4/2024 9:53	56501	ROCK_T2	0	2	2	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/4/2024 9:54	53902	HALI_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
5/4/2024 9:54	45902	AUBU_T1	0	3	3	0	0.23	0.23	-0.6	-0.59	0	0	0	0	0	0
5/4/2024 9:54	53903	HALI_T2	2	2	0	1.4	1.2	-0.2	-0.2	-0.21	0	0	0	0	0	0
5/4/2024 9:54	53901	HALI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/4/2024 9:59	45902	AUBU_T1	0	3	3	0	0.23	0.23	-0.6	-0.59	0	0	0	0	0	0
5/4/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
5/4/2024 10:00	12807	MICK_T1	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
5/4/2024 10:00	12802	MICK_T1	0	0	0	0	0	0	-1.35	-1.34	0	0	0	0	0	0
5/4/2024 10:00	63804	HEMP_T1	1	1	0	6	5.5	-0.5	0	0	0	0	0	0	0	0
5/4/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.82	-0.8	0	0	0	0	0	0
5/4/2024 10:00	67605	WARW_T1	5	9	4	0.22	0.23	0.01	0	0	0	0	0	0	0	0
5/4/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 10:00	47104	MARI_T1	0	0	0	0	0	0	0.42	0.36	0	0	0	0	0	0
5/4/2024 10:00	14601	WHI_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
5/4/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	-1.1	-1.04	1	1	0	600	600	0
5/4/2024 10:00	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 10:00	43104	SMIL_T2	0	0	0	0	0	0	-0.86	-0.87	1	1	0	300	300	0
5/4/2024 10:00	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/4/2024 10:00	58102	NEKI_T1	1	1	0	0.1	0.7	0.6	-1.31	-1.21	1	1	0	1200	1200	0
5/4/2024 10:00	40701	FFLD_T1	23	29	6	0.12	0.17	0.05	0	0	0	0	0	0	0	0
5/4/2024 10:00	42001	MNVL_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
5/4/2024 10:00	56803	BENV_T1	27	10	-17	0.42	0.98	0.56	-0.13	-0.12	1	1	0	600	600	0
5/4/2024 10:00	62605	ENGL_T1	0	0	0	0	0	0	-0.86	-1.97	0	0	0	0	0	0
5/4/2024 10:00	62607	ENGL_T1	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/4/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-1.49	-1.49	1	1	0	600	600	0
5/4/2024 10:00	40702	FFLD_T1	45	73	28	0.14	0.15	0.01	0	0	0	0	0	0	0	0
5/4/2024 10:00	67002	STHI_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
5/4/2024 10:00	44502	HAMI_T2	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
5/4/2024 10:00	59202	THOM_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 10:00	57104	SPHI_T2	2	2	0	5.4	2.1	-3.3	-1.23	-1.21	1	1	0	900	900	0
5/4/2024 10:00	54001	SDLE_T1	1	1	0	0.2	0.5	0.3	0	0	1	1	0	600	600	0
5/4/2024 10:00	45902	AUBU_T1	3	0	-3	0.23	0	-0.23	-0.6	-0.59	0	0	0	0	0	0
5/4/2024 10:00	53501	EVIL_T2	1	2	1	0.4	0.35	-0.05	-2.39	-2.61	0	0	0	0	0	0
5/4/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.69	-0.79	1	1	0	1200	1200	0
5/4/2024 10:00	13503	MCMI_T2	95	9	-86	0.18	0.13	-0.05	-1	-1.02	0	0	0	0	0	0
5/4/2024 10:00	12604	MACA_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
5/4/2024 10:00	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/4/2024 10:00	15103	UPHA_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
5/4/2024 10:00	63803	HEMP_T1	53	383	330	0.14	0.37	0.23	0	0	0	0	0	0	0	0
5/4/2024 10:00	57106	SPHI_T2	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
5/4/2024 10:00	13302	ORVI_T2	0	0	0	0	0	0	1.42	1.38	0	0	0	0	0	0
5/4/2024 10:00	24105	EHAZ_T1	4	4	0	5.83	6.03	0.2	-2.01	-2.03	1	1	0	1200	1200	0
5/4/2024 10:00	42002	MNVL_T2	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
5/4/2024 10:00	51004	NHAR_T1	13	5	-8	0.78	1.4	0.62	0	0	0	0	0	0	0	0
5/4/2024 10:00	53901	HALI_T2	1	1	0	0.5	0.3	-0.2	-1.12	-1.14	0	0	0	0	0	0
5/4/2024 10:00	17001	RIRO_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
5/4/2024 10:00	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
5/4/2024 10:00	51702	OBER_T1	2	2	0	2.95	2.75	-0.2	-1.08	-1.07	1	1	0	600	600	0
5/4/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
5/4/2024 10:00	65702	RVIL_T2	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
5/4/2024 10:00	45602	WOOL_T1	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
5/4/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-1.3	-1.3	1	1	0	1200	1200	0
5/4/2024 10:00	53901	HALI_T2	2	2	0	1.1	1.2	0.1	-0.2	-0.21	0	0	0	0	0	0
5/4/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
5/4/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	600	600	0
5/4/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
5/4/2024 10:00	64801	MONE_T2	0	0	0	0	0	0	0.19	0.16	0	0	0	0	0	0
5/4/2024 10:00	56601	HAMP_T1	0	0	0	0	0	0	-2.03	-1.99	0	0	0	0	0	0
5/4/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-0.96	-0.95	0	0	0	0	0	0
5/4/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
5/4/2024 10:00	25603	ARRO_T1	10	6	-4	0.13	0.12	-0.01	-0.16	-0.21	0	0	0	0	0	0
5/4/2024 10:00	52004	LING_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
5/4/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	-0.48	-0.44	0	0	0	0	0	0
5/4/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
5/4/2024 10:00	57101	SPHI_T2	6	6	0	0.28	0.63	0.35	0	0	0	0	0	0	0	0
5/4/2024 10:00	12803	MICK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/4/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.57	-0.51	2	2	0	1500	1500	0
5/4/2024 10:00	10801	CHHI_T1	0	0	0	0	0	0	-1.01	-0.92	1	1	0	900	900	0
5/4/2024 10:00	44505	HAMI_T2	0	0	0	0	0	0	0.23	0.27	0	0	0	0	0	0
5/4/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
5/4/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	0.71	0.76	0	0	0	0	0	0
5/4/2024 10:00	17101	WTRE_T2	506	506	0	0.52	0.56	0.04	0	0	0	0	0	0	0	0
5/4/2024 10:00	54602	SUMM_T2	0	0	0	0	0	0	-2.47	-2.49	1	1	0	600	600	0
5/4/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-1.24	-1.24	1	1	0	900	900	0
5/4/2024 10:00	40703	FFLD_T1	0	1	1	0	0.1	0.1	0.26	0.28	0	0	0	0	0	0
5/4/2024 10:00	63801	HEMP_T1	52	247	195	0.14	0.44	0.3	-0.3	-0.29	0	0	0	0	0	0
5/4/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.51	0.54	0	0	0	0	0	0
5/4/2024 10:00	16102	BING_T2	0	0	0	0	0	0	0.81	0.87	0	0	0	0	0	0
5/4/2024 10:00	24701	FLND_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
5/4/2024 10:00	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/4/2024 10:00	43108	SMIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/4/2024 10:00	56801	BENV_T1	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
5/4/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
5/4/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
5/4/2024 10:00	22102	EDEL_T1	0	0	0	0	0	0	-0.11	-0.35	0	0	0	0	0	0
5/4/2024 10:00	51002	NHAR_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/4/2024 10:00	40505	CRES_T1	3	3	0	4.9	4.9	0	0.2	0.2	0	0	0	0	0	0
5/4/2024 10:00	11101	EGYP_T1	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
5/4/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.51	-0.43	1	1	0	600	600	0
5/4/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.61	-0.57	0	0	0	0	0	0
5/4/2024 10:00	42903	MIDD_T2	0	2	2	0	0.2	0.2	-0.12	0.24	0	0	0	0	0	0
5/4/2024 10:01	13503	MCMI_T2	95	9	-86	0.18	0.13	-0.05	-1	-1.02	0	0	0	0	0	0
5/4/2024 10:05	60605	NCOL_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
5/4/2024 10:06	64902	MILL_T2	0	0	0	0	0	0	-1.41	-1.4	1	1	0	900	900	0
5/4/2024 10:06	40101	HUNT_T2	0	0	0	0	0	0	-0.75	-0.78	0	0	0	0	0	0
5/4/2024 10:06	67402	WAKE_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	600	600	0
5/4/2024 10:07	60501	NMAN_T2	3	3	0	4.07	3.7	-0.37	0	0	0	0	0	0	0	0
5/4/2024 10:07	40101	HUNT_T2	0	0	0	0	0	0	-1.5	-1.56	0	0	0	0	0	0
5/4/2024 10:07	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/4/2024 10:07	44201	POIN_T1	0	0	0	0	0	0	-1.58	-1.59	1	1	0	1200	1200	0
5/4/2024 10:07	60502	NMAN_T2	0	0	0	0	0	0	-0.62	-0.65	0	0	0	0	0	0
5/4/2024 10:07	45501	DERR_T2	0	0	0	0	0	0	-0.82	-0.8	2	2	0	1800	1800	0
5/4/2024 10:07	51401	LYKE_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
5/4/2024 10:07	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 10:07	42302	MOWR_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
5/4/2024 10:08	45902	AUBU_T1	3	0	-3	0.23	0	-0.23	-0.59	-0.57	0	0	0	0	0	0
5/4/2024 10:08	61302	EARL_T1	0	0	0	0	0	0	-0.12	-0.1	2	2	0	1800	1800	0
5/4/2024 10:08	13901	SEID_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
5/4/2024 10:08	63306	GREE_T1	0	0	0	0	0	0	-2.12	-2.1	1	1	0	900	900	0
5/4/2024 10:08	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
5/4/2024 10:08	50501	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/4/2024 10:08	50502	MECH_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
5/4/2024 10:08	53802	MBRG_T2	0	0	0	0	0	0	0.78	0.75	0	0	0	0	0	0
5/4/2024 10:08	56501	ROCK_T2	1	1	0	0.7	0	-0.7	-0.01	-0.01	0	0	0	0	0	0
5/4/2024 10:08	60701	BREC_T1	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
5/4/2024 10:08	50505	MECH_T1	0	0	0	0	0	0	-1.02	-1.01	0	0	0	0	0	0
5/4/2024 10:08	50701	SMEC_T1	0	0	0	0	0	0	-0.99	-0.9	1	1	0	900	900	0
5/4/2024 10:08	41902	REED_T1	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
5/4/2024 10:08	29402	BELT_T1	1	1	0	7.6	7.5	-0.1	0	0	0	0	0	0	0	0
5/4/2024 10:08	40101	HUNT_T2	0	0	0	0	0	0	-0.78	-0.76	0	0	0	0	0	0
5/4/2024 10:09	45901	AUBU_T1	0	0	0	0	0	0	1.85	1.83	0	0	0	0	0	0
5/4/2024 10:09	20403	ASHF_T2	45	44	-1	1.03	0.86	-0.17	0.01	0.04	0	0	0	0	0	0
5/4/2024 10:09	40902	JESH_T1	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
5/4/2024 10:09	40901	JESH_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/4/2024 10:09	16605	PONO_T1	0	0	0	0	0	0	-1	-1	1	1	0	1200	1200	0
5/4/2024 10:09	45902	AUBU_T1	3	0	-3	0.23	0	-0.23	-0.59	-0.57	0	0	0	0	0	0
5/4/2024 10:09	58803	COCO_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/4/2024 10:09	20401	ASHF_T2	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
5/4/2024 10:10	20403	ASHF_T2	45	44	-1	1.03	0.86	-0.17	0.01	0.04	0	0	0	0	0	0
5/4/2024 10:10	45902	AUBU_T1	3	0	-3	0.23	0	-0.23	-2.35	-2.26	0	0	0	0	0	0
5/4/2024 10:10	20401	ASHF_T2	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
5/4/2024 10:10	48302	ORWI_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
5/4/2024 10:11	45902	AUBU_T1	3	0	-3	0.23	0	-0.23	-0.59	-0.57	0	0	0	0	0	0
5/4/2024 10:14	29402	BELT_T1	1	1	0	7.6	7.5	-0.1	0	0	0	0	0	0	0	0
5/4/2024 10:14	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/4/2024 10:16	46801	HEPB_T2	2	2	0	0.35	0.3	-0.05	0.54	0.57	0	0	0	0	0	0
5/4/2024 10:19	56501	ROCK_T2	1	1	0	0.3	0	-0.3	-0.01	-0.01	0	0	0	0	0	0
5/4/2024 10:21	43802	SWIL_T1	0	0	0	0	0	0	-0.21	-0.2	1	1	0	600	600	0
5/4/2024 10:21	56501	ROCK_T2	1	1	0	0.3	0	-0.3	-0.01	-0.01	0	0	0	0	0	0
5/4/2024 10:21	43801	SWIL_T1	9	24	15	0.83	0.42	-0.41	0	0	0	0	0	0	0	0
5/4/2024 10:22	41902	REED_T1	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
5/4/2024 10:23	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
5/4/2024 10:24	67602	WARW_T2	0	0	0	0	0	0	1.27	1.27	1	1	0	300	300	0
5/4/2024 10:34	46506	LOHA_T1	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
5/4/2024 10:46	63402	HONY_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/4/2024 10:46	63403	HONY_T2	0	0	0	0	0	0	0.12	0.07	0	0	0	0	0	0
5/4/2024 10:47	26401	INOR_T1	1	1	0	8.7	9.2	0.5	0.27	0.29	0	0	0	0	0	0
5/4/2024 10:50	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
5/4/2024 10:52	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
5/4/2024 10:54	67502	WEWI_T2	0	0	0	0	0	0	-1.62	-1.61	1	1	0	900	900	0
5/4/2024 10:54	64101	REFR_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
5/4/2024 10:58	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 11:02	45902	AUBU_T1	0	1	1	0	0	0	-0.51	-0.53	0	0	0	0	0	0
5/4/2024 11:03	26401	INOR_T1	1	1	0	9.2	9.1	-0.1	0.29	0.26	0	0	0	0	0	0
5/4/2024 11:07	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 11:08	16302	ALPA_T2	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
5/4/2024 11:10	16302	ALPA_T2	0	0	0	0	0	0	1.05	0.94	0	0	0	0	0	0
5/4/2024 11:13	45902	AUBU_T1	0	1	1	0	0	0	-1.07	-1.13	0	0	0	0	0	0
5/4/2024 11:15	40703	FFLD_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/4/2024 11:15	40701	FFLD_T1	28	33	5	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
5/4/2024 11:15	40702	FFLD_T1	67	58	-9	0.17	0.15	-0.02	-1.28	-1.26	1	1	0	1200	1200	0
5/4/2024 11:17	43202	MVIL_T2	9	25	16	0.21	0.18	-0.03	-0.74	-0.74	0	0	0	0	0	0
5/4/2024 11:18	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.53	-0.57	0	0	0	0	0	0
5/4/2024 11:19	43202	MVIL_T2	9	25	16	0.21	0.18	-0.03	-0.74	-0.74	0	0	0	0	0	0
5/4/2024 11:21	15203	SFAR_T2	2	2	0	0.2	0.25	0.05	-1.3	-1.3	0	0	0	0	0	0
5/4/2024 11:22	15203	SFAR_T2	2	2	0	0.2	0.25	0.05	-1.3	-1.3	0	0	0	0	0	0
5/4/2024 11:23	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.57	-0.55	0	0	0	0	0	0
5/4/2024 11:24	16302	ALPA_T2	0	0	0	0	0	0	0.47	0.52	0	0	0	0	0	0
5/4/2024 11:24	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.57	-0.55	0	0	0	0	0	0
5/4/2024 11:25	20403	ASHF_T2	41	43	2	0.83	0.88	0.05	0.03	0.01	0	0	0	0	0	0
5/4/2024 11:25	16302	ALPA_T2	0	0	0	0	0	0	0.47	0.52	0	0	0	0	0	0
5/4/2024 11:25	46004	BERW_T2	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
5/4/2024 11:25	20401	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/4/2024 11:26	16302	ALPA_T2	0	0	0	0	0	0	0.47	0.52	0	0	0	0	0	0
5/4/2024 11:28	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 11:28	62601	ENGL_T1	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
5/4/2024 11:28	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.57	-0.55	0	0	0	0	0	0
5/4/2024 11:28	45901	AUBU_T1	0	0	0	0	0	0	0.89	0.95	0	0	0	0	0	0
5/4/2024 11:29	64501	LAVI_T1	0	0	0	0	0	0	-0.43	-0.39	0	0	0	0	0	0
5/4/2024 11:31	53901	HALI_T2	1	1	0	0.4	0.3	-0.1	-1.11	-1.1	0	0	0	0	0	0
5/4/2024 11:31	53903	HALI_T2	2	2	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
5/4/2024 11:31	53902	HALI_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
5/4/2024 11:31	64501	LAVI_T1	0	0	0	0	0	0	-0.43	-0.39	0	0	0	0	0	0
5/4/2024 11:32	25503	MADI_T1	63	190	127	0.16	0.23	0.07	-1.04	-1.05	0	0	0	0	0	0
5/4/2024 11:34	41902	REED_T1	0	3	3	0	0.2	0.2	0.84	0.83	0	0	0	0	0	0
5/4/2024 11:35	41902	REED_T1	0	3	3	0	0.2	0.2	0.84	0.83	0	0	0	0	0	0
5/4/2024 11:39	45902	AUBU_T1	1	1	0	0.7	0	-0.7	-0.55	-0.53	0	0	0	0	0	0
5/4/2024 11:40	48302	ORWI_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
5/4/2024 11:44	45902	AUBU_T1	1	1	0	0.7	0	-0.7	-0.55	-0.53	0	0	0	0	0	0
5/4/2024 11:46	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 11:46	62605	ENGL_T1	0	0	0	0	0	0	-1.97	-1.94	0	0	0	0	0	0
5/4/2024 11:49	40602	PIGR_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
5/4/2024 11:49	40601	PIGR_T1	0	1	1	0	0.1	0.1	-0.18	-0.24	0	0	0	0	0	0
5/4/2024 11:53	51304	WIND_T2	0	0	0	0	0	0	-0.18	-0.14	0	0	0	0	0	0
5/4/2024 11:55	45902	AUBU_T1	1	0	-1	0.4	0	-0.4	-1.06	-1.15	0	0	0	0	0	0
5/4/2024 11:56	48302	ORWI_T2	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
5/4/2024 12:00	45902	AUBU_T1	0	0	0	0	0	0	-0.53	-0.57	0	0	0	0	0	0
5/4/2024 12:03	13302	ORVI_T2	0	0	0	0	0	0	1.38	1.43	0	0	0	0	0	0
5/4/2024 12:11	10901	COOP_T2	0	1	1	0	0	0	0.66	0.67	0	0	0	0	0	0
5/4/2024 12:11	10903	COOP_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/4/2024 12:16	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
5/4/2024 12:19	66002	RHEE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 12:19	66001	RHEE_T2	0	0	0	0	0	0	-0.71	-0.75	1	1	0	900	900	0
5/4/2024 12:20	66002	RHEE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 12:20	66001	RHEE_T2	0	0	0	0	0	0	-0.71	-0.75	1	1	0	900	900	0
5/4/2024 12:21	65603	QVIL_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
5/4/2024 12:21	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
5/4/2024 12:21	41902	REED_T1	0	0	0	0	0	0	0.82	0.83	0	0	0	0	0	0
5/4/2024 12:22	41902	REED_T1	0	0	0	0	0	0	0.82	0.83	0	0	0	0	0	0
5/4/2024 12:23	50201	HARR_T3	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 12:23	50105	HARR_T3	6	6	0	5.92	6.05	0.13	0	0	0	0	0	0	0	0
5/4/2024 12:23	50103	HARR_T3	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
5/4/2024 12:23	50107	HARR_T3	0	0	0	0	0	0	0.43	0.39	0	0	0	0	0	0
5/4/2024 12:48	43202	MVIL_T2	40	52	12	0.18	0.24	0.06	-0.75	-0.76	0	0	0	0	0	0
5/4/2024 12:54	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 12:55	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 12:58	61503	EPET_T1	0	0	0	0	0	0	-1.12	-1.11	0	0	0	0	0	0
5/4/2024 13:05	14404	SSLA_T1	1	1	0	4.3	4.4	0.1	0	0	0	0	0	0	0	0
5/4/2024 13:09	14404	SSLA_T1	1	1	0	4.3	4.4	0.1	0	0	0	0	0	0	0	0
5/4/2024 13:18	54201	PENN_T1	9	9	0	0.93	1.02	0.09	0	0	0	0	0	0	0	0
5/4/2024 13:18	54203	PENN_T1	18	18	0	0.72	0.74	0.02	-0.02	0	0	0	0	0	0	0
5/4/2024 13:19	60502	NMAN_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
5/4/2024 13:19	41902	REED_T1	0	0	0	0	0	0	0.83	0.78	0	0	0	0	0	0
5/4/2024 13:19	60501	NMAN_T2	3	3	0	3.7	4.03	0.33	0	0	0	0	0	0	0	0
5/4/2024 13:20	41902	REED_T1	0	0	0	0	0	0	0.83	0.78	0	0	0	0	0	0
5/4/2024 13:20	57401	SPAN_T1	0	0	0	0	0	0	-1.16	-1.07	1	1	0	600	600	0
5/4/2024 13:21	57403	SPAN_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
5/4/2024 13:23	26002	WDAM_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/4/2024 13:23	26001	WDAM_T1	0	0	0	0	0	0	-0.62	-0.58	0	0	0	0	0	0
5/4/2024 13:24	45902	AUBU_T1	1	1	0	0.6	0.4	-0.2	-0.61	-0.63	0	0	0	0	0	0
5/4/2024 13:29	45902	AUBU_T1	1	1	0	0.6	0.4	-0.2	-0.61	-0.63	0	0	0	0	0	0
5/4/2024 13:32	59302	MCAL_T1	0	0	0	0	0	0	-0.49	-0.47	1	1	0	600	600	0
5/4/2024 13:39	45901	AUBU_T1	0	0	0	0	0	0	0.93	0.93	0	0	0	0	0	0
5/4/2024 13:39	45902	AUBU_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/4/2024 13:40	45902	AUBU_T1	1	1	0	0.4	0	-0.4	-0.63	-0.63	0	0	0	0	0	0
5/4/2024 13:43	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 13:43	21206	ECAR_T2	1	1	0	7.4	7.2	-0.2	1.08	1.07	0	0	0	0	0	0
5/4/2024 13:49	65804	RTWN_T1	0	0	0	0	0	0	-0.27	-0.25	1	1	0	600	600	0
5/4/2024 13:50	65804	RTWN_T1	0	0	0	0	0	0	-0.27	-0.25	1	1	0	600	600	0
5/4/2024 13:51	67201	TEHI_T1	0	0	0	0	0	0	-0.75	0.22	1	0	-1	900	0	-900
5/4/2024 13:56	64701	LITI_T1	0	0	0	0	0	0	0.07	0.1	0	0	0	0	0	0
5/4/2024 13:59	61801	EELI_T2	0	0	0	0	0	0	-1.01	-1	1	1	0	600	600	0
5/4/2024 14:20	64701	LITI_T1	0	0	0	0	0	0	0.1	0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/4/2024 14:27	45902	AUBU_T1	0	0	0	0	0	0	-0.62	-0.66	0	0	0	0	0	0
5/4/2024 14:27	61303	EARL_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
5/4/2024 14:28	61303	EARL_T1	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
5/4/2024 14:32	45902	AUBU_T1	0	0	0	0	0	0	-0.62	-0.66	0	0	0	0	0	0
5/4/2024 14:43	45902	AUBU_T1	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
5/4/2024 14:48	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.66	-0.66	0	0	0	0	0	0
5/4/2024 15:19	46101	MACI_T2	0	0	0	0	0	0	-0.72	-0.71	1	1	0	1200	1200	0
5/4/2024 15:23	59101	WALK_T2	0	0	0	0	0	0	0.91	1.03	0	0	0	0	0	0
5/4/2024 15:40	53903	HALI_T2	2	2	0	1.3	1.3	0	-0.18	-0.18	0	0	0	0	0	0
5/4/2024 15:40	53902	HALI_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
5/4/2024 15:40	53901	HALI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/4/2024 15:52	67605	WARW_T1	1	3	2	0.1	0.27	0.17	-1.01	-1.04	0	0	0	0	0	0
5/4/2024 15:56	53901	HALI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/4/2024 15:56	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
5/4/2024 15:56	53903	HALI_T2	2	2	0	1.3	1.1	-0.2	-0.18	-0.13	0	0	0	0	0	0
5/4/2024 15:57	67605	WARW_T1	1	3	2	0.1	0.27	0.17	-1.04	-1.02	0	0	0	0	0	0
5/4/2024 16:36	40301	TAMA_T3	2	1	-1	0.6	0	-0.6	1.55	1.68	2	2	0	1800	1800	0
5/4/2024 17:07	59101	WALK_T2	0	0	0	0	0	0	1.28	1.27	0	0	0	0	0	0
5/4/2024 17:13	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/4/2024 18:15	62102	ELAN_T1	0	0	0	0	0	0	0.56	0.62	0	0	0	0	0	0
5/4/2024 18:25	15001	BLMO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 19:16	53901	HALI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/4/2024 19:16	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
5/4/2024 19:16	53903	HALI_T2	2	2	0	1.05	1	-0.05	-0.21	-0.21	0	0	0	0	0	0
5/4/2024 20:10	20403	ASHF_T2	0	17	17	0	0.21	0.21	0.17	0.22	0	0	0	0	0	0
5/4/2024 20:23	56501	ROCK_T2	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/4/2024 20:24	56501	ROCK_T2	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/4/2024 20:38	46506	LOHA_T1	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
5/4/2024 20:38	46504	LOHA_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
5/4/2024 20:58	67502	WEWI_T2	0	0	0	0	0	0	-1.64	-1.59	1	1	0	900	900	0
5/4/2024 21:01	43801	SWIL_T1	62	128	66	0.29	0.29	0	0	0	0	0	0	0	0	0
5/4/2024 21:01	43802	SWIL_T1	0	4	4	0	0.1	0.1	-0.22	-0.21	1	1	0	600	600	0
5/4/2024 21:08	50202	HARR_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/4/2024 21:08	50107	HARR_T3	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
5/4/2024 21:08	50201	HARR_T3	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/4/2024 21:08	50105	HARR_T3	6	6	0	5.98	5.72	-0.26	0	0	0	0	0	0	0	0
5/4/2024 21:08	50103	HARR_T3	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/4/2024 21:10	45901	AUBU_T1	0	0	0	0	0	0	0.94	0.93	0	0	0	0	0	0
5/4/2024 21:11	57401	SPAN_T1	0	2	2	0	0.15	0.15	-0.99	-0.97	1	1	0	600	600	0
5/4/2024 21:11	45902	AUBU_T1	0	0	0	0	0	0	-1.28	-1.31	0	0	0	0	0	0
5/4/2024 21:11	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 21:16	63403	HONY_T2	0	0	0	0	0	0	0.12	0.05	0	0	0	0	0	0
5/4/2024 21:16	63402	HONY_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/4/2024 21:18	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 21:18	62605	ENGL_T1	0	0	0	0	0	0	-1.99	-1.97	0	0	0	0	0	0
5/4/2024 21:18	45902	AUBU_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
5/4/2024 21:19	13302	ORVI_T2	0	0	0	0	0	0	1.29	1.32	0	0	0	0	0	0
5/4/2024 21:22	45902	AUBU_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
5/4/2024 21:22	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 21:25	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.39	0	0	0	0	0	0
5/4/2024 21:25	45902	AUBU_T1	0	0	0	0	0	0	-0.65	-0.75	0	0	0	0	0	0
5/4/2024 21:26	65804	RTWN_T1	0	0	0	0	0	0	-0.28	-0.3	1	1	0	600	600	0
5/4/2024 21:26	13901	SEID_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
5/4/2024 21:27	16302	ALPA_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
5/4/2024 21:27	45902	AUBU_T1	0	0	0	0	0	0	-0.65	-0.75	0	0	0	0	0	0
5/4/2024 21:29	16302	ALPA_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
5/4/2024 21:29	53902	HALI_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
5/4/2024 21:29	53903	HALI_T2	2	2	0	1.3	1.25	-0.05	0	0	0	0	0	0	0	0
5/4/2024 21:29	53901	HALI_T2	1	1	0	0.5	0.6	0.1	-1.09	-1.08	0	0	0	0	0	0
5/4/2024 21:30	64501	LAVI_T1	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
5/4/2024 21:30	16302	ALPA_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
5/4/2024 21:30	59101	WALK_T2	0	0	0	0	0	0	1.21	1.08	0	0	0	0	0	0
5/4/2024 21:31	13303	ORVI_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
5/4/2024 21:32	41902	REED_T1	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
5/4/2024 21:32	60605	NCOL_T2	0	0	0	0	0	0	-0.59	-0.58	0	0	0	0	0	0
5/4/2024 21:32	65603	QVIL_T2	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
5/4/2024 21:33	54203	PENN_T1	18	18	0	1.11	1.21	0.1	-0.05	-0.09	0	0	0	0	0	0
5/4/2024 21:33	54201	PENN_T1	9	10	1	1.21	1.31	0.1	0	0	0	0	0	0	0	0
5/4/2024 21:34	41902	REED_T1	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
5/4/2024 21:34	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 21:34	62102	ELAN_T1	0	0	0	0	0	0	0.81	0.58	0	0	0	0	0	0
5/4/2024 21:35	67602	WARW_T2	0	0	0	0	0	0	-0.26	-0.28	1	1	0	1200	1200	0
5/4/2024 21:35	64701	LITI_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
5/4/2024 21:36	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.39	0	0	0	0	0	0
5/4/2024 21:37	66001	RHEE_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
5/4/2024 21:38	64501	LAVI_T1	0	0	0	0	0	0	-0.48	-0.42	0	0	0	0	0	0
5/4/2024 21:38	61503	EPET_T1	0	0	0	0	0	0	-1.26	-1.3	0	0	0	0	0	0
5/4/2024 21:38	60502	NMAN_T2	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
5/4/2024 21:38	14404	SSLA_T1	1	1	0	4.4	4.3	-0.1	-0.05	-0.03	0	0	0	0	0	0
5/4/2024 21:38	60501	NMAN_T2	3	3	0	4.5	5	0.5	0	0	0	0	0	0	0	0
5/4/2024 21:39	64101	REFR_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
5/4/2024 21:39	66001	RHEE_T2	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
5/4/2024 21:39	13503	MCMI_T2	0	0	0	0	0	0	-1.01	-0.54	0	0	0	0	0	0
5/4/2024 21:40	59301	MCAL_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/4/2024 21:40	57403	SPAN_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/4/2024 21:40	57401	SPAN_T1	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/4/2024 21:40	59302	MCAL_T1	0	1	1	0	0.1	0.1	-0.49	-0.51	1	1	0	600	600	0
5/4/2024 21:41	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/4/2024 21:41	29402	BELT_T1	1	60	59	8.5	0.7	-7.8	0	0	0	0	0	0	0	0
5/4/2024 21:42	43202	MVIL_T2	0	1	1	0	0.1	0.1	-0.77	-0.77	0	0	0	0	0	0
5/4/2024 21:42	45901	AUBU_T1	0	0	0	0	0	0	0.93	0.93	0	0	0	0	0	0
5/4/2024 21:43	10901	COOP_T2	0	0	0	0	0	0	0.59	0.52	0	0	0	0	0	0
5/4/2024 21:43	26401	INOR_T1	1	1	0	9.4	9.9	0.5	0.27	0.25	0	0	0	0	0	0
5/4/2024 21:43	64101	REFR_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
5/4/2024 21:45	40701	FFLD_T1	28	39	11	0.25	0.38	0.13	0	0	0	0	0	0	0	0
5/4/2024 21:45	14404	SSLA_T1	1	1	0	4.3	4.5	0.2	-0.03	-0.05	0	0	0	0	0	0
5/4/2024 21:45	59101	WALK_T2	0	0	0	0	0	0	1.08	0.97	0	0	0	0	0	0
5/4/2024 21:45	40703	FFLD_T1	1	3	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0
5/4/2024 21:45	40702	FFLD_T1	137	184	47	0.27	0.41	0.14	-1.35	-1.37	1	1	0	1200	1200	0
5/4/2024 21:47	40601	PIGR_T1	0	0	0	0	0	0	-0.2	-0.23	0	0	0	0	0	0
5/4/2024 21:47	40602	PIGR_T1	1	1	0	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
5/4/2024 21:47	45902	AUBU_T1	0	18	18	0	0.18	0.18	-0.75	-0.77	0	0	0	0	0	0
5/4/2024 21:47	45901	AUBU_T1	0	0	0	0	0	0	0.93	0.93	0	0	0	0	0	0
5/4/2024 21:47	46101	MACI_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
5/4/2024 21:48	40101	HUNT_T2	0	0	0	0	0	0	-0.75	-0.78	0	0	0	0	0	0
5/4/2024 21:48	46801	HEPB_T2	2	2	0	0.5	0.8	0.3	0.48	0.5	0	0	0	0	0	0
5/4/2024 21:48	64101	REFR_T1	0	16	16	0	0.14	0.14	-0.41	-0.41	0	0	0	0	0	0
5/4/2024 21:49	13503	MCMI_T2	0	0	0	0	0	0	-1.01	-0.54	0	0	0	0	0	0
5/4/2024 21:50	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 21:51	21206	ECAR_T2	1	1	0	8.1	8.4	0.3	1	0.98	0	0	0	0	0	0
5/4/2024 21:51	56501	ROCK_T2	0	2	2	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
5/4/2024 21:51	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 21:51	56504	ROCK_T2	0	12	12	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 21:51	64101	REFR_T1	0	16	16	0	0.14	0.14	-0.41	-0.41	0	0	0	0	0	0
5/4/2024 21:51	40301	TAMA_T3	1	1	0	0	0	0	1.71	1.75	2	2	0	1800	1800	0
5/4/2024 21:54	43202	MVIL_T2	0	11	11	0	0.16	0.16	-0.77	-0.77	0	0	0	0	0	0
5/4/2024 21:54	67201	TEHI_T1	0	0	0	0	0	0	-0.84	-0.88	1	1	0	900	900	0
5/4/2024 21:54	64701	LITI_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
5/4/2024 21:55	41902	REED_T1	0	0	0	0	0	0	0.82	0.72	0	0	0	0	0	0
5/4/2024 22:01	26002	WDAM_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/4/2024 22:01	26001	WDAM_T1	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
5/4/2024 22:03	62601	ENGL_T1	0	0	0	0	0	0	-0.92	-0.94	0	0	0	0	0	0
5/4/2024 22:03	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2024 23:33	53902	HALI_T2	1	1	0	5.8	6.1	0.3	0	0	0	0	0	0	0	0
5/4/2024 23:33	53903	HALI_T2	2	2	0	1.3	1.8	0.5	-0.22	-0.22	0	0	0	0	0	0
5/4/2024 23:33	53901	HALI_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
5/5/2024 2:41	53902	HALI_T2	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
5/5/2024 2:41	53903	HALI_T2	2	2	0	1.9	2	0.1	-0.21	-0.22	0	0	0	0	0	0
5/5/2024 2:41	53901	HALI_T2	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
5/5/2024 7:22	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 8:10	20103	AVOC_T1	0	0	0	0	0	0	-0.38	-0.35	0	0	0	0	0	0
5/5/2024 8:30	54505	ENOL_T2	0	0	0	0	0	0	-1.31	-1.33	1	1	0	600	600	0
5/5/2024 8:30	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/5/2024 8:46	12002	HATF_T1	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
5/5/2024 8:53	67703	WERN_T2	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
5/5/2024 8:57	29402	BELT_T1	1	1	0	7.3	7.5	0.2	0	0	0	0	0	0	0	0
5/5/2024 8:57	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/5/2024 9:04	54201	PENN_T1	10	10	0	0.63	0.67	0.04	-1.22	-1.09	0	0	0	0	0	0
5/5/2024 9:04	54203	PENN_T1	18	18	0	0.56	0.58	0.02	0	0	0	0	0	0	0	0
5/5/2024 9:05	41902	REED_T1	0	0	0	0	0	0	0.83	0.87	0	0	0	0	0	0
5/5/2024 9:16	65401	MARI_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
5/5/2024 9:17	65401	MARI_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
5/5/2024 9:29	63404	HONY_T1	40	27	-13	0.17	0.17	0	0	0	0	0	0	0	0	0
5/5/2024 9:29	63401	HONY_T1	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
5/5/2024 9:34	41902	REED_T1	0	7	7	0	0	0	0.81	0.79	0	0	0	0	0	0
5/5/2024 9:37	41903	REED_T1	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
5/5/2024 9:37	41902	REED_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 9:52	45901	AUBU_T1	0	0	0	0	0	0	0.85	0.9	0	0	0	0	0	0
5/5/2024 9:55	45902	AUBU_T1	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
5/5/2024 9:56	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 9:58	63602	LETO_T1	40	0	-40	0.11	0	-0.11	-0.51	-0.6	0	0	0	0	0	0
5/5/2024 9:59	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
5/5/2024 10:00	17001	RIRO_T1	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
5/5/2024 10:00	16102	BING_T2	0	0	0	0	0	0	-0.18	-0.13	0	0	0	0	0	0
5/5/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
5/5/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
5/5/2024 10:00	64801	MONE_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
5/5/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-2.13	-2.07	0	0	0	0	0	0
5/5/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
5/5/2024 10:00	42301	MOWR_T2	3	2	-1	0.83	0.1	-0.73	0	0	0	0	0	0	0	0
5/5/2024 10:00	56803	BENV_T1	0	1	1	0	0.5	0.5	-0.08	-0.1	1	1	0	600	600	0
5/5/2024 10:00	51004	NHAR_T1	12	6	-6	0.78	1.2	0.42	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/5/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.56	-0.47	1	1	0	600	600	0
5/5/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
5/5/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.8	-0.81	1	1	0	1200	1200	0
5/5/2024 10:00	16101	BING_T2	1	1	0	10	10	0	0.41	0.41	0	0	0	0	0	0
5/5/2024 10:00	25603	ARRO_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
5/5/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-1.41	-1.45	1	1	0	1200	1200	0
5/5/2024 10:00	40701	FFLD_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/5/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
5/5/2024 10:00	42001	MNVL_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
5/5/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
5/5/2024 10:00	52004	LING_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
5/5/2024 10:00	53902	HALI_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
5/5/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
5/5/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-1.63	-1.69	1	1	0	600	600	0
5/5/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	-0.19	-0.2	1	1	0	600	600	0
5/5/2024 10:00	42903	MIDD_T2	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
5/5/2024 10:00	62607	ENGL_T1	2	2	0	0.3	0	-0.3	-1.17	-1.19	1	1	0	300	300	0
5/5/2024 10:00	57104	SPHI_T2	0	1	1	0	0	0	-1.23	-1.21	1	1	0	900	900	0
5/5/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-1.99	-1.96	1	1	0	1200	1200	0
5/5/2024 10:00	40703	FFLD_T1	0	0	0	0	0	0	0.24	0.28	0	0	0	0	0	0
5/5/2024 10:00	12807	MICK_T1	0	0	0	0	0	0	-0.77	-0.79	0	0	0	0	0	0
5/5/2024 10:00	56801	BENV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/5/2024 10:00	57106	SPHI_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
5/5/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-1.36	-1.36	1	1	0	900	900	0
5/5/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-1.45	-1.39	1	1	0	900	900	0
5/5/2024 10:00	58803	COCO_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/5/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.48	-0.38	0	0	0	0	0	0
5/5/2024 10:00	11101	EGYP_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
5/5/2024 10:00	44502	HAMI_T2	1	1	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
5/5/2024 10:00	40702	FFLD_T1	27	13	-14	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
5/5/2024 10:00	17101	WTRE_T2	33	208	175	0.71	0.27	-0.44	0	0	0	0	0	0	0	0
5/5/2024 10:00	12803	MICK_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/5/2024 10:00	40505	CRES_T1	3	3	0	4.7	4.63	-0.07	0.21	0.2	0	0	0	0	0	0
5/5/2024 10:00	53501	EVIL_T2	2	2	0	0.8	0.7	-0.1	-0.89	-0.86	0	0	0	0	0	0
5/5/2024 10:00	58102	NEKI_T1	0	0	0	0	0	0	-0.14	-0.07	0	0	0	0	0	0
5/5/2024 10:00	51702	OBER_T1	2	2	0	2.15	2.05	-0.1	-0.43	-0.4	0	0	0	0	0	0
5/5/2024 10:00	53901	HALI_T2	1	1	0	0.3	0.2	-0.1	-1.09	-1.09	0	0	0	0	0	0
5/5/2024 10:00	10801	CHHI_T1	0	0	0	0	0	0	-1.49	-1.57	2	2	0	1500	1500	0
5/5/2024 10:00	44505	HAMI_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
5/5/2024 10:00	50701	SMEC_T1	0	0	0	0	0	0	-0.89	-0.86	1	1	0	900	900	0
5/5/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-1	-0.99	0	0	0	0	0	0
5/5/2024 10:00	51002	NHAR_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/5/2024 10:00	45602	WOOL_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
5/5/2024 10:00	65702	RVIL_T2	0	0	0	0	0	0	-1.08	-1.05	1	1	0	600	600	0
5/5/2024 10:00	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/5/2024 10:00	24701	FLND_T2	0	1	1	0	0	0	0.27	0.29	0	0	0	0	0	0
5/5/2024 10:00	67002	STHI_T2	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
5/5/2024 10:00	42002	MNVL_T2	1	1	0	3.6	3.6	0	0	0	0	0	0	0	0	0
5/5/2024 10:00	16103	BING_T2	1	1	0	2.4	1.2	-1.2	0	0	0	0	0	0	0	0
5/5/2024 10:00	53903	HALI_T2	2	2	0	1.4	1.15	-0.25	0	0	0	0	0	0	0	0
5/5/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
5/5/2024 10:00	64802	MONE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.56	-0.63	2	2	0	1500	1500	0
5/5/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
5/5/2024 10:00	56601	HAMP_T1	0	0	0	0	0	0	-2.04	-2.05	0	0	0	0	0	0
5/5/2024 10:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 10:00	62605	ENGL_T1	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
5/5/2024 10:00	12802	MICK_T1	0	0	0	0	0	0	-1.35	-1.32	0	0	0	0	0	0
5/5/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-2.12	-2.14	0	0	0	0	0	0
5/5/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	-0.47	-0.49	1	1	0	600	600	0
5/5/2024 10:00	12604	MACA_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
5/5/2024 10:03	65802	RTWN_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
5/5/2024 10:06	41902	REED_T1	7	5	-2	0.71	0	-0.71	0.83	0.8	0	0	0	0	0	0
5/5/2024 10:06	59003	MIFF_T1	0	1	1	0	0.1	0.1	0.29	0.31	0	0	0	0	0	0
5/5/2024 10:06	61302	EARL_T1	0	0	0	0	0	0	0.73	0.68	1	1	0	600	600	0
5/5/2024 10:06	59002	MIFF_T1	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
5/5/2024 10:07	54602	SUMM_T2	0	0	0	0	0	0	-2.51	-2.47	1	1	0	600	600	0
5/5/2024 10:07	43104	SMIL_T2	0	0	0	0	0	0	-0.84	-0.82	1	1	0	300	300	0
5/5/2024 10:07	54203	PENN_T1	18	18	0	0.41	0.37	-0.04	0	0	0	0	0	0	0	0
5/5/2024 10:07	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/5/2024 10:07	60701	BREC_T1	0	0	0	0	0	0	-0.02	0.01	0	0	0	0	0	0
5/5/2024 10:07	53802	MBRG_T2	0	0	0	0	0	0	0.78	0.69	0	0	0	0	0	0
5/5/2024 10:07	67605	WARW_T1	14	9	-5	0.41	0.36	-0.05	0	0	0	0	0	0	0	0
5/5/2024 10:07	60501	NMAN_T2	3	3	0	5.23	4.8	-0.43	0	0	0	0	0	0	0	0
5/5/2024 10:07	29401	BELT_T1	0	1	1	0	0	0	0	0	3	3	0	2700	2700	0
5/5/2024 10:07	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
5/5/2024 10:07	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
5/5/2024 10:07	40901	JESH_T1	1	1	0	1.7	1	-0.7	0	0	0	0	0	0	0	0
5/5/2024 10:07	29402	BELT_T1	1	1	0	8.3	8.1	-0.2	0	0	0	0	0	0	0	0
5/5/2024 10:07	47104	MARL_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
5/5/2024 10:07	15103	UPHA_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
5/5/2024 10:07	43108	SMIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/5/2024 10:07	54201	PENN_T1	6	5	-1	0.92	1.04	0.12	-1.19	-1.17	0	0	0	0	0	0
5/5/2024 10:07	60101	COCA_T1	0	0	0	0	0	0	0.16	0.19	0	0	0	0	0	0
5/5/2024 10:07	64305	LINC_T1	0	0	0	0	0	0	-0.69	-0.66	0	0	0	0	0	0
5/5/2024 10:07	50505	MECH_T1	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
5/5/2024 10:07	40902	JESH_T1	0	0	0	0	0	0	-1.12	-1.11	0	0	0	0	0	0
5/5/2024 10:07	64302	LINC_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
5/5/2024 10:07	50502	MECH_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
5/5/2024 10:07	46001	BERW_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
5/5/2024 10:07	60502	NMAN_T2	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
5/5/2024 10:08	54001	SDLE_T1	1	1	0	0.1	0.6	0.5	0	0	1	1	0	600	600	0
5/5/2024 10:08	63801	HEMP_T1	43	75	32	0.13	0.13	0	-0.33	-0.16	0	0	0	0	0	0
5/5/2024 10:08	63804	HEMP_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
5/5/2024 10:08	53501	EVIL_T2	2	2	0	0.8	0.7	-0.1	-1.72	-1.76	0	0	0	0	0	0
5/5/2024 10:08	24105	HIAZ_T1	4	4	0	6	5.85	-0.15	-2.06	-2.07	1	1	0	1200	1200	0
5/5/2024 10:08	63803	HEMP_T1	93	81	-12	0.19	0.2	0.01	0	0	0	0	0	0	0	0
5/5/2024 10:08	45902	AUBU_T1	0	0	0	0	0	0	-1.07	-1.07	0	0	0	0	0	0
5/5/2024 10:08	63306	GREE_T1	0	0	0	0	0	0	-2.15	-2.13	1	1	0	900	900	0
5/5/2024 10:08	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 10:08	40901	JESH_T1	1	1	0	1.7	1	-0.7	0	0	0	0	0	0	0	0
5/5/2024 10:08	40902	JESH_T1	0	0	0	0	0	0	-1.12	-1.11	0	0	0	0	0	0
5/5/2024 10:08	67703	WERN_T2	0	0	0	0	0	0	-0.12	-2.01	0	0	0	0	0	0
5/5/2024 10:08	22102	EDEL_T1	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
5/5/2024 10:08	16605	PONO_T1	0	0	0	0	0	0	-0.93	-0.95	1	1	0	1200	1200	0
5/5/2024 10:08	43304	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/5/2024 10:09	45602	WOOL_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
5/5/2024 10:10	45902	AUBU_T1	0	0	0	0	0	0	-1.07	-1.07	0	0	0	0	0	0
5/5/2024 10:18	59003	MIFF_T1	1	0	-1	0.1	0	-0.1	0.31	0.3	0	0	0	0	0	0
5/5/2024 10:18	59002	MIFF_T1	3	5	2	0.27	0.18	-0.09	0	0	0	0	0	0	0	0
5/5/2024 10:22	41902	REED_T1	5	0	-5	0.68	0	-0.68	0.8	0.79	0	0	0	0	0	0
5/5/2024 10:22	67605	WARW_T1	9	10	1	0.36	0.32	-0.04	-1.26	-1.25	0	0	0	0	0	0
5/5/2024 10:25	29402	BELT_T1	1	1	0	8.1	8	-0.1	0	0	0	0	0	0	0	0
5/5/2024 10:25	29401	BELT_T1	0	1	1	0	0	0	0	0	1	1	0	900	900	0
5/5/2024 10:26	29402	BELT_T1	1	1	0	8.1	8	-0.1	0	0	0	0	0	0	0	0
5/5/2024 10:26	29401	BELT_T1	0	1	1	0	0	0	0	0	4	4	0	3600	3600	0
5/5/2024 10:39	45901	AUBU_T1	0	0	0	0	0	0	0.92	0.93	0	0	0	0	0	0
5/5/2024 10:40	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 10:40	62605	ENGL_T1	0	0	0	0	0	0	-1.95	-1.95	0	0	0	0	0	0
5/5/2024 10:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 10:46	63401	HONY_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
5/5/2024 10:46	63404	HONY_T1	16	15	-1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/5/2024 10:46	13503	MCMI_T2	1	1	0	0.5	0.5	0	-0.94	-0.95	0	0	0	0	0	0
5/5/2024 10:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 10:48	65401	MARI_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
5/5/2024 10:57	10801	CHHI_T1	0	1	1	0	0.1	0.1	-1.44	-1.49	2	2	0	1500	1500	0
5/5/2024 10:58	53901	HALI_T2	1	1	0	0.1	0.7	0.6	-1.55	-1.55	0	0	0	0	0	0
5/5/2024 10:58	53903	HALI_T2	2	2	0	1.15	1.5	0.35	0	0	0	0	0	0	0	0
5/5/2024 10:58	53902	HALI_T2	1	1	0	5	5.4	0.4	0	0	0	0	0	0	0	0
5/5/2024 11:01	45902	AUBU_T1	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
5/5/2024 11:02	63401	HONY_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
5/5/2024 11:02	63404	HONY_T1	13	12	-1	0.15	0.16	0.01	0	0	0	0	0	0	0	0
5/5/2024 11:03	63403	HONY_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
5/5/2024 11:03	63402	HONY_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/5/2024 11:04	64101	REFR_T1	2	0	-2	0.1	0	-0.1	-0.75	-0.73	0	0	0	0	0	0
5/5/2024 11:05	54203	PENN_T1	16	18	2	0.28	0.31	0.03	-0.02	-0.03	0	0	0	0	0	0
5/5/2024 11:05	54201	PENN_T1	3	5	2	1.67	0.92	-0.75	0	0	0	0	0	0	0	0
5/5/2024 11:06	64101	REFR_T1	2	0	-2	0.1	0	-0.1	-0.37	-0.36	0	0	0	0	0	0
5/5/2024 11:07	64101	REFR_T1	2	0	-2	0.1	0	-0.1	-0.37	-0.36	0	0	0	0	0	0
5/5/2024 11:11	45902	AUBU_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
5/5/2024 11:16	45902	AUBU_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
5/5/2024 11:17	58401	MORO_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
5/5/2024 11:17	58402	MORO_T1	0	0	0	0	0	0	-0.56	-0.56	2	2	0	1500	1500	0
5/5/2024 11:20	54206	PENN_T2	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
5/5/2024 11:22	65801	RTWN_T1	0	0	0	0	0	0	-1.13	-1.11	2	2	0	1200	1200	0
5/5/2024 11:22	45902	AUBU_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
5/5/2024 11:23	67605	WARW_T1	8	11	3	0.28	0.3	0.02	-1.26	-1.23	0	0	0	0	0	0
5/5/2024 11:24	45902	AUBU_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
5/5/2024 11:27	45902	AUBU_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
5/5/2024 11:27	67605	WARW_T1	8	11	3	0.28	0.3	0.02	-1.26	-1.23	0	0	0	0	0	0
5/5/2024 11:27	61303	EARL_T1	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
5/5/2024 11:31	61303	EARL_T1	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
5/5/2024 11:33	60502	NMAN_T2	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
5/5/2024 11:33	46801	HEPB_T2	0	2	2	0	0.3	0.3	0.55	0.55	0	0	0	0	0	0
5/5/2024 11:33	60501	NMAN_T2	3	3	0	4.63	4.9	0.27	0	0	0	0	0	0	0	0
5/5/2024 11:37	45902	AUBU_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
5/5/2024 11:37	67702	WERN_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
5/5/2024 11:39	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
5/5/2024 11:40	45902	AUBU_T1	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
5/5/2024 11:42	46004	BERW_T2	1	1	0	1	0.3	-0.7	-0.66	-0.65	0	0	0	0	0	0
5/5/2024 11:43	45902	AUBU_T1	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
5/5/2024 11:49	58401	MORO_T1	0	0	0	0	0	0	-1.24	-1.24	1	1	0	600	600	0
5/5/2024 11:50	65205	PRIN_T1	1	1	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/5/2024 11:50	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 11:50	65202	PRIN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/5/2024 11:53	45902	AUBU_T1	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
5/5/2024 11:58	45902	AUBU_T1	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
5/5/2024 12:04	14404	SSLA_T1	1	1	0	4.2	4.5	0.3	-0.01	-0.01	0	0	0	0	0	0
5/5/2024 12:06	14404	SSLA_T1	1	1	0	4.2	4.5	0.3	-0.01	-0.01	0	0	0	0	0	0
5/5/2024 12:08	60104	COCA_T2	0	0	0	0	0	0	-0.5	-0.48	1	1	0	600	600	0
5/5/2024 12:09	45902	AUBU_T1	0	0	0	0	0	0	-0.55	-0.6	0	0	0	0	0	0
5/5/2024 12:14	45902	AUBU_T1	0	0	0	0	0	0	-0.55	-0.6	0	0	0	0	0	0
5/5/2024 12:18	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/5/2024 12:20	43801	SWIL_T1	22	22	0	0.45	0.45	0	0	0	0	0	0	0	0	0
5/5/2024 12:20	65603	QVIL_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
5/5/2024 12:20	43802	SWIL_T1	0	0	0	0	0	0	-0.1	-0.1	1	1	0	600	600	0
5/5/2024 12:23	56501	ROCK_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
5/5/2024 12:25	45902	AUBU_T1	0	0	0	0	0	0	-1.19	-1.21	0	0	0	0	0	0
5/5/2024 12:27	21206	ECAR_T2	1	6	5	7.4	4	-3.4	1.08	1.13	0	0	0	0	0	0
5/5/2024 12:27	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 12:30	45902	AUBU_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
5/5/2024 12:33	59302	MCAL_T1	0	0	0	0	0	0	-0.53	-0.5	1	1	0	600	600	0
5/5/2024 12:39	56802	BENV_T2	0	0	0	0	0	0	-1.44	-1.48	0	0	0	0	0	0
5/5/2024 12:40	56802	BENV_T2	0	0	0	0	0	0	-2.88	-2.96	0	0	0	0	0	0
5/5/2024 12:41	56802	BENV_T2	0	0	0	0	0	0	-1.44	-1.48	0	0	0	0	0	0
5/5/2024 12:41	56801	BENV_T1	0	38	38	0	0.25	0.25	0.83	0.82	1	1	0	600	600	0
5/5/2024 12:41	56803	BENV_T1	2	2	0	0.95	0.4	-0.55	0	0	0	0	0	0	0	0
5/5/2024 12:42	56802	BENV_T2	0	0	0	0	0	0	-1.44	-1.48	0	0	0	0	0	0
5/5/2024 12:55	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 12:55	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 12:59	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 12:59	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 12:59	10901	COOP_T2	0	0	0	0	0	0	0.71	0.68	0	0	0	0	0	0
5/5/2024 12:59	10903	COOP_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/5/2024 13:01	42902	MIDD_T2	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
5/5/2024 13:01	42903	MIDD_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
5/5/2024 13:02	42902	MIDD_T2	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
5/5/2024 13:02	42903	MIDD_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
5/5/2024 13:06	14404	SSLA_T1	1	1	0	4.6	4.7	0.1	0	0	0	0	0	0	0	0
5/5/2024 13:06	14403	SSLA_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
5/5/2024 13:09	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 13:09	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 13:11	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 13:11	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 13:13	11904	ETEX_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
5/5/2024 13:25	59101	WALK_T2	0	0	0	0	0	0	1.35	1.21	0	0	0	0	0	0
5/5/2024 13:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 13:41	27605	PIRI_T2	0	0	0	0	0	0	-0.69	-0.71	1	1	0	900	900	0
5/5/2024 13:44	45501	DERR_T2	0	0	0	0	0	0	-0.22	-0.19	2	2	0	1200	1200	0
5/5/2024 13:54	45902	AUBU_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
5/5/2024 13:58	63801	HEMP_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
5/5/2024 13:58	63804	HEMP_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
5/5/2024 13:58	28703	HAML_T2	3	2	-1	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
5/5/2024 13:58	28704	HAML_T2	1	1	0	0.4	0.1	-0.3	-0.01	-0.01	0	0	0	0	0	0
5/5/2024 13:59	45902	AUBU_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
5/5/2024 14:06	49804	UNIV_T1	0	0	0	0	0	0	0.4	0.36	0	0	0	0	0	0
5/5/2024 14:10	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/5/2024 14:10	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
5/5/2024 14:12	62102	ELAN_T1	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
5/5/2024 14:12	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
5/5/2024 14:13	27605	PIRI_T2	0	0	0	0	0	0	-0.69	-0.56	1	1	0	900	900	0
5/5/2024 14:15	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
5/5/2024 14:15	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/5/2024 14:25	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
5/5/2024 14:28	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
5/5/2024 14:31	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
5/5/2024 14:35	65004	NEFF_T2	0	0	0	0	0	0	-0.96	-0.97	1	1	0	600	600	0
5/5/2024 14:35	65001	NEFF_T2	2	6	4	0.1	0.1	0	0	0	0	0	0	0	0	0
5/5/2024 14:35	24204	PROV_T3	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
5/5/2024 14:35	24201	PROV_T3	1	1	0	6.1	6.3	0.2	-1.49	-1.49	1	1	0	1200	1200	0
5/5/2024 14:41	45902	AUBU_T1	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
5/5/2024 14:45	20603	GRWO_T2	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
5/5/2024 14:46	45902	AUBU_T1	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
5/5/2024 14:52	45902	AUBU_T1	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
5/5/2024 14:56	56802	BENV_T2	0	0	0	0	0	0	-1.48	-1.43	0	0	0	0	0	0
5/5/2024 14:57	29402	BELT_T1	18	38	20	0.73	0.58	-0.15	0	0	0	0	0	0	0	0
5/5/2024 14:57	57006	WHHI_T2	2	1	-1	0.1	0.1	0	-1.67	-1.68	0	0	0	0	0	0
5/5/2024 14:57	45902	AUBU_T1	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
5/5/2024 14:57	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/5/2024 15:07	45902	AUBU_T1	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
5/5/2024 15:13	45902	AUBU_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
5/5/2024 15:17	13303	ORVI_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
5/5/2024 15:38	26001	WDAM_T1	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
5/5/2024 15:41	67604	WARW_T1	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
5/5/2024 15:41	67605	WARW_T1	9	10	1	0.21	0.25	0.04	0	0	0	0	0	0	0	0
5/5/2024 15:50	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 15:50	21206	ECAR_T2	1	1	0	7.6	7.7	0.1	1.01	0.94	0	0	0	0	0	0
5/5/2024 15:51	65205	PRIN_T1	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
5/5/2024 15:51	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 15:55	51102	CARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/5/2024 15:55	51109	CARL_T1	0	0	0	0	0	0	-1.07	-1.05	1	1	0	1200	1200	0
5/5/2024 16:03	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 16:03	21206	ECAR_T2	1	1	0	7.7	7.8	0.1	0.94	1.02	0	0	0	0	0	0
5/5/2024 16:04	46502	LOHA_T1	0	0	0	0	0	0	-1.36	-1.38	1	1	0	1200	1200	0
5/5/2024 16:04	46504	LOHA_T1	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
5/5/2024 16:05	58401	MORO_T1	0	0	0	0	0	0	-1.25	-1.25	1	1	0	600	600	0
5/5/2024 16:05	54203	PENN_T1	18	18	0	0.43	0.43	0	-0.05	-0.03	0	0	0	0	0	0
5/5/2024 16:05	54201	PENN_T1	3	3	0	1.5	1.53	0.03	0	0	0	0	0	0	0	0
5/5/2024 16:06	45501	DERR_T2	0	0	0	0	0	0	-0.14	-0.14	1	1	0	600	600	0
5/5/2024 16:08	43102	SMIL_T2	0	0	0	0	0	0	-0.91	-0.89	1	1	0	600	600	0
5/5/2024 16:11	62102	ELAN_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
5/5/2024 16:12	13606	RICH_T2	1	1	0	6.3	6.4	0.1	0.59	0.62	0	0	0	0	0	0
5/5/2024 16:14	62607	ENGL_T1	2	2	0	0.5	1	0.5	0	0	0	0	0	0	0	0
5/5/2024 16:14	62605	ENGL_T1	0	0	0	0	0	0	-1.86	-1.88	0	0	0	0	0	0
5/5/2024 16:27	45501	DERR_T2	0	0	0	0	0	0	0.11	0.14	1	1	0	600	600	0
5/5/2024 16:27	53903	HALI_T2	2	2	0	1.25	0.95	-0.3	0	0	0	0	0	0	0	0
5/5/2024 16:27	53902	HALI_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
5/5/2024 16:27	53901	HALI_T2	1	1	0	0.1	0.3	0.2	-3.03	-3.09	0	0	0	0	0	0
5/5/2024 16:28	53901	HALI_T2	1	1	0	0.1	0.3	0.2	-1.52	-1.55	0	0	0	0	0	0
5/5/2024 16:28	53902	HALI_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
5/5/2024 16:28	53903	HALI_T2	2	2	0	1.25	0.95	-0.3	0	0	0	0	0	0	0	0
5/5/2024 16:31	53901	HALI_T2	0	1	1	0	0.7	0.7	-1.52	-1.55	0	0	0	0	0	0
5/5/2024 16:31	53903	HALI_T2	2	2	0	0.95	0.85	-0.1	0	0	0	0	0	0	0	0
5/5/2024 16:31	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
5/5/2024 16:32	53903	HALI_T2	2	2	0	0.95	0.85	-0.1	0	0	0	0	0	0	0	0
5/5/2024 16:32	53901	HALI_T2	0	1	1	0	0.7	0.7	-1.52	-1.55	0	0	0	0	0	0
5/5/2024 16:32	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
5/5/2024 16:40	59101	WALK_T2	0	0	0	0	0	0	1.18	1.12	0	0	0	0	0	0
5/5/2024 16:41	53501	EVIL_T2	4	3	-1	2.05	2.73	0.68	-0.85	-0.91	0	0	0	0	0	0
5/5/2024 16:48	46801	HEPB_T2	2	2	0	0.45	0.5	0.05	0.6	0.59	0	0	0	0	0	0
5/5/2024 16:48	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/5/2024 17:29	46001	BERW_T1	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
5/5/2024 17:31	65402	MARI_T1	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
5/5/2024 18:11	56803	BENV_T1	0	2	2	0	2.3	2.3	0	0	0	0	0	0	0	0
5/5/2024 18:11	56801	BENV_T1	3	4	1	0.17	0.23	0.06	-0.83	-0.84	1	1	0	600	600	0
5/5/2024 18:13	56803	BENV_T1	0	2	2	0	2.3	2.3	0	0	0	0	0	0	0	0
5/5/2024 18:13	56801	BENV_T1	3	4	1	0.17	0.23	0.06	-0.83	-0.84	1	1	0	600	600	0
5/5/2024 18:27	56802	BENV_T2	0	0	0	0	0	0	-1.46	-1.44	0	0	0	0	0	0
5/5/2024 18:28	53501	EVIL_T2	2	2	0	2.7	4.15	1.45	0	0	0	0	0	0	0	0
5/5/2024 18:28	53502	EVIL_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
5/5/2024 21:06	13606	RICH_T2	1	1	0	6.4	6.1	-0.3	0.62	0.58	0	0	0	0	0	0
5/5/2024 21:15	65801	RTWN_T1	0	0	0	0	0	0	-1.14	-1.16	2	2	0	1200	1200	0
5/5/2024 21:18	65401	MARI_T1	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
5/5/2024 21:18	65402	MARI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/5/2024 21:19	13303	ORVI_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
5/5/2024 21:22	29402	BELT_T1	1	1	0	7.5	8	0.5	0	0	0	0	0	0	0	0
5/5/2024 21:22	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/5/2024 21:23	64101	REFR_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
5/5/2024 21:25	62605	ENGL_T1	0	0	0	0	0	0	-1.91	-1.88	0	0	0	0	0	0
5/5/2024 21:25	45902	AUBU_T1	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
5/5/2024 21:25	62607	ENGL_T1	2	2	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/5/2024 21:25	45901	AUBU_T1	0	0	0	0	0	0	0.94	0.93	0	0	0	0	0	0
5/5/2024 21:26	14404	SSLA_T1	1	1	0	4.6	4.8	0.2	-0.02	-0.03	0	0	0	0	0	0
5/5/2024 21:26	65801	RTWN_T1	0	0	0	0	0	0	-1.16	-1.1	2	2	0	1200	1200	0
5/5/2024 21:27	29402	BELT_T1	1	1	0	7.5	8	0.5	0	0	0	0	0	0	0	0
5/5/2024 21:27	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/5/2024 21:29	54201	PENN_T1	6	8	2	0.98	0.98	0	-1.12	-1.12	0	0	0	0	0	0
5/5/2024 21:29	54203	PENN_T1	18	18	0	0.46	0.71	0.25	0	0	0	0	0	0	0	0
5/5/2024 21:30	61303	EARL_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
5/5/2024 21:30	10903	COOP_T2	10	24	14	0.11	0.18	0.07	0	0	0	0	0	0	0	0
5/5/2024 21:30	45902	AUBU_T1	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
5/5/2024 21:30	29402	BELT_T1	1	1	0	7.7	8.5	0.8	0	0	0	0	0	0	0	0
5/5/2024 21:30	10901	COOP_T2	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
5/5/2024 21:31	29402	BELT_T1	1	1	0	7.7	8.5	0.8	0	0	0	0	0	0	0	0
5/5/2024 21:31	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/5/2024 21:31	11904	ETEX_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
5/5/2024 21:32	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 21:32	65004	NEFF_T2	0	0	0	0	0	0	-0.99	-0.54	1	0	-1	600	0	-600
5/5/2024 21:32	65001	NEFF_T2	198	227	29	0.21	0.29	0.08	0	0	0	0	0	0	0	0
5/5/2024 21:32	65205	PRIN_T1	1	1	0	1.7	2.1	0.4	0	0	0	0	0	0	0	0
5/5/2024 21:33	45902	AUBU_T1	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
5/5/2024 21:33	29402	BELT_T1	1	1	0	7.7	8.5	0.8	0	0	0	0	0	0	0	0
5/5/2024 21:33	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/5/2024 21:34	29402	BELT_T1	1	1	0	7.7	8.5	0.8	0	0	0	0	0	0	0	0
5/5/2024 21:34	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/5/2024 21:34	61303	EARL_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/5/2024 21:34	56802	BENV_T2	0	1	1	0	0.2	0.2	-1.47	-1.56	0	0	0	0	0	0
5/5/2024 21:35	62605	ENGL_T1	0	0	0	0	0	0	-1.91	-1.88	0	0	0	0	0	0
5/5/2024 21:35	62607	ENGL_T1	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/5/2024 21:36	14403	SSLA_T1	0	0	0	0	0	0	0.58	0.54	0	0	0	0	0	0
5/5/2024 21:36	14404	SSLA_T1	1	1	0	4.8	4.4	-0.4	0	0	0	0	0	0	0	0
5/5/2024 21:36	57006	WHHI_T2	0	0	0	0	0	0	-0.8	0.32	0	0	0	0	0	0
5/5/2024 21:37	45902	AUBU_T1	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
5/5/2024 21:38	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/5/2024 21:38	62102	ELAN_T1	0	0	0	0	0	0	0.79	0.61	0	0	0	0	0	0
5/5/2024 21:38	14404	SSLA_T1	1	1	0	4.8	4.4	-0.4	-0.02	-0.03	0	0	0	0	0	0
5/5/2024 21:41	62102	ELAN_T1	0	0	0	0	0	0	0.79	0.61	0	0	0	0	0	0
5/5/2024 21:41	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/5/2024 21:41	64101	REFR_T1	0	1	1	0	0.1	0.1	-0.41	-0.42	0	0	0	0	0	0
5/5/2024 21:42	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 21:42	21206	ECAR_T2	1	1	0	7.9	8.4	0.5	1.02	1	0	0	0	0	0	0
5/5/2024 21:42	13503	MCMI_T2	54	171	117	0.26	0.33	0.07	-0.93	-0.97	0	0	0	0	0	0
5/5/2024 21:42	60502	NMAN_T2	0	0	0	0	0	0	-0.67	-0.62	0	0	0	0	0	0
5/5/2024 21:42	60501	NMAN_T2	3	3	0	4.9	4.9	0	0	0	0	0	0	0	0	0
5/5/2024 21:43	10801	CHHI_T1	0	0	0	0	0	0	-0.97	-0.99	1	1	0	900	900	0
5/5/2024 21:47	65603	QVIL_T2	0	0	0	0	0	0	-0.96	-0.96	0	0	0	0	0	0
5/5/2024 21:48	65402	MARI_T1	1	0	-1	0.1	0	-0.1	-0.32	-0.36	0	0	0	0	0	0
5/5/2024 21:48	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
5/5/2024 21:49	20603	GRWO_T2	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
5/5/2024 21:49	20601	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/5/2024 21:50	24204	PROV_T3	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
5/5/2024 21:50	24201	PROV_T3	1	1	0	6.6	6.5	-0.1	-1.53	-1.54	1	1	0	1200	1200	0
5/5/2024 21:51	28704	HAML_T2	1	1	0	1.2	1.3	0.1	-0.01	-0.01	0	0	0	0	0	0
5/5/2024 21:51	28703	HAML_T2	3	3	0	0.8	1	0.2	0	0	0	0	0	0	0	0
5/5/2024 21:52	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 21:52	67604	WARW_T1	0	0	0	0	0	0	-0.17	-0.11	0	0	0	0	0	0
5/5/2024 21:52	67605	WARW_T1	19	19	0	0.61	0.63	0.02	0	0	0	0	0	0	0	0
5/5/2024 21:52	65802	RTWN_T2	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
5/5/2024 21:53	63404	HONY_T1	75	159	84	0.24	0.56	0.32	0	0	0	0	0	0	0	0
5/5/2024 21:53	63401	HONY_T1	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
5/5/2024 21:54	63801	HEMP_T1	313	138	-175	0.57	0.22	-0.35	-0.41	-0.4	0	0	0	0	0	0
5/5/2024 21:54	45501	DERR_T2	0	1	1	0	0.4	0.4	-0.21	-0.21	1	1	0	600	600	0
5/5/2024 21:54	63802	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/5/2024 21:54	63803	HEMP_T1	429	93	-336	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
5/5/2024 21:54	63403	HONY_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
5/5/2024 21:54	63402	HONY_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
5/5/2024 21:54	63804	HEMP_T1	1	1	0	5.5	6	0.5	0	0	0	0	0	0	0	0
5/5/2024 21:55	64101	REFR_T1	0	20	20	0	0.13	0.13	-0.42	-0.42	0	0	0	0	0	0
5/5/2024 21:55	54206	PENN_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
5/5/2024 21:55	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
5/5/2024 21:56	53901	HALI_T2	1	1	0	1.2	1.4	0.2	-1.5	-1.53	0	0	0	0	0	0
5/5/2024 21:56	26001	WDAM_T1	0	0	0	0	0	0	-0.58	-0.62	0	0	0	0	0	0
5/5/2024 21:56	46004	BERW_T2	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
5/5/2024 21:56	53903	HALI_T2	2	2	0	1.3	1.65	0.35	0	0	0	0	0	0	0	0
5/5/2024 21:56	26002	WDAM_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/5/2024 21:56	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
5/5/2024 21:57	46801	HEPB_T2	3	15	12	0.6	0.24	-0.36	0.54	0.53	0	0	0	0	0	0
5/5/2024 21:57	46803	HEPB_T2	1	3	2	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
5/5/2024 21:58	53901	HALI_T2	1	1	0	1.2	1.4	0.2	-3.01	-3.05	0	0	0	0	0	0
5/5/2024 21:58	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
5/5/2024 21:58	63404	HONY_T1	75	159	84	0.24	0.56	0.32	0	0	0	0	0	0	0	0
5/5/2024 21:58	63401	HONY_T1	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
5/5/2024 21:58	53903	HALI_T2	2	2	0	1.3	1.65	0.35	0	0	0	0	0	0	0	0
5/5/2024 21:58	56801	BENV_T1	8	12	4	0.39	0.55	0.16	-0.86	-0.87	1	1	0	600	600	0
5/5/2024 21:58	56802	BENV_T2	0	1	1	0	0.2	0.2	-1.56	-1.5	0	0	0	0	0	0
5/5/2024 21:59	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
5/5/2024 21:59	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 21:59	53903	HALI_T2	2	2	0	1.3	1.65	0.35	0	0	0	0	0	0	0	0
5/5/2024 21:59	53901	HALI_T2	1	1	0	1.2	1.4	0.2	-1.5	-1.53	0	0	0	0	0	0
5/5/2024 22:00	59101	WALK_T2	0	0	0	0	0	0	0.98	1.14	0	0	0	0	0	0
5/5/2024 22:00	54203	PENN_T1	18	18	0	0.84	0.91	0.07	-0.06	-0.08	0	0	0	0	0	0
5/5/2024 22:00	54201	PENN_T1	10	10	0	0.95	1.04	0.09	0	0	0	0	0	0	0	0
5/5/2024 22:00	56501	ROCK_T2	2	11	9	0.8	0.27	-0.53	-0.01	-0.01	0	0	0	0	0	0
5/5/2024 22:01	46504	LOHA_T1	3	48	45	1.1	0.43	-0.67	0	0	0	0	0	0	0	0
5/5/2024 22:01	59002	MIFF_T1	6	6	0	0.37	0.57	0.2	0	0	0	0	0	0	0	0
5/5/2024 22:01	59003	MIFF_T1	1	1	0	0.5	0.6	0.1	0.27	0.26	0	0	0	0	0	0
5/5/2024 22:01	46506	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/5/2024 22:01	46502	LOHA_T1	0	0	0	0	0	0	-1.45	-1.42	1	1	0	1200	1200	0
5/5/2024 22:01	64101	REFR_T1	1	60	59	0.1	0.2	0.1	-0.42	-0.42	0	0	0	0	0	0
5/5/2024 22:02	56801	BENV_T1	10	10	0	0.58	0.54	-0.04	-0.86	-0.87	1	1	0	600	600	0
5/5/2024 22:02	46001	BERW_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
5/5/2024 22:02	56802	BENV_T2	1	1	0	0.2	0.4	0.2	-1.56	-1.5	0	0	0	0	0	0
5/5/2024 22:03	53501	EVIL_T2	4	4	0	0.95	1.35	0.4	0	0	0	0	0	0	0	0
5/5/2024 22:03	43801	SWIL_T1	97	123	26	0.29	0.29	0	0	0	0	0	0	0	0	0
5/5/2024 22:03	45501	DERR_T2	1	1	0	0.4	0.4	0	-0.21	-0.21	1	1	0	600	600	0
5/5/2024 22:03	43802	SWIL_T1	7	15	8	0.13	0.12	-0.01	-0.16	-0.16	1	1	0	600	600	0
5/5/2024 22:03	53502	EVIL_T2	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
5/5/2024 22:04	53902	HALI_T2	1	1	0	5.7	6	0.3	0	0	0	0	0	0	0	0
5/5/2024 22:04	53901	HALI_T2	1	11	10	1.3	0.25	-1.05	-1.5	-1.53	0	0	0	0	0	0
5/5/2024 22:04	53903	HALI_T2	2	2	0	1.65	1.35	-0.3	0	0	0	0	0	0	0	0
5/5/2024 22:05	27605	PIRI_T2	0	0	0	0	0	0	-0.63	-0.81	1	1	0	900	900	0
5/5/2024 22:05	56501	ROCK_T2	2	11	9	0.8	0.27	-0.53	-0.01	-0.01	0	0	0	0	0	0
5/5/2024 22:05	59101	WALK_T2	0	0	0	0	0	0	0.98	1.14	0	0	0	0	0	0
5/5/2024 22:05	56802	BENV_T2	1	1	0	0.2	0.4	0.2	-1.56	-1.5	0	0	0	0	0	0
5/5/2024 22:06	51102	CARL_T1	4	27	23	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
5/5/2024 22:06	51109	CARL_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
5/5/2024 22:06	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 22:06	56802	BENV_T2	1	1	0	0.2	0.4	0.2	-3.12	-3	0	0	0	0	0	0
5/5/2024 22:06	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 22:07	42902	MIDD_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
5/5/2024 22:07	42903	MIDD_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/5/2024 22:07	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.27	1	1	0	600	600	0
5/5/2024 22:07	56802	BENV_T2	1	1	0	0.2	0.4	0.2	-1.56	-1.5	0	0	0	0	0	0
5/5/2024 22:08	58402	MORO_T1	0	0	0	0	0	0	-0.72	-0.73	2	2	0	1500	1500	0
5/5/2024 22:08	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 22:08	45501	DERR_T2	1	1	0	0.4	0.4	0	-0.21	-0.21	1	1	0	600	600	0
5/5/2024 22:08	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 22:09	69804	UNIV_T1	0	0	0	0	0	0	0.39	0.3	0	0	0	0	0	0
5/5/2024 22:10	41902	REED_T1	0	0	0	0	0	0	-0.13	-0.23	1	1	0	900	900	0
5/5/2024 22:10	59302	MCAL_T1	1	1	0	0.1	0.2	0.1	-0.49	-0.5	1	1	0	600	600	0
5/5/2024 22:11	53501	EVIL_T2	4	4	0	0.95	1.35	0.4	-0.73	-0.74	0	0	0	0	0	0
5/5/2024 22:11	56501	ROCK_T2	2	11	9	0.8	0.27	-0.53	-0.01	-0.01	0	0	0	0	0	0
5/5/2024 22:12	42902	MIDD_T2	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
5/5/2024 22:12	42903	MIDD_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/5/2024 22:15	43102	SMIL_T2	0	5	5	0	0.14	0.14	-0.96	-0.96	1	1	0	600	600	0
5/5/2024 22:15	43103	SMIL_T2	13	16	3	0.22	0.29	0.07	0	0	0	0	0	0	0	0
5/5/2024 6:26	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 6:26	43301	WATS_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
5/5/2024 6:52	15001	BLMO_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/5/2024 7:38	15203	SFAR_T2	0	0	0	0	0	0	-1.39	-1.41	0	0	0	0	0	0
5/6/2024 7:39	15203	SFAR_T2	0	0	0	0	0	0	-1.41	-1.4	0	0	0	0	0	0
5/6/2024 8:01	64902	MILL_T2	0	0	0	0	0	0	-0.78	-0.75	1	1	0	900	900	0
5/6/2024 8:03	46504	LOHA_T1	2	2	0	0.7	1	0.3	0	0	0	0	0	0	0	0
5/6/2024 8:03	46506	LOHA_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/6/2024 8:03	46502	LOHA_T1	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
5/6/2024 8:04	23001	SAJO_T1	0	0	0	0	0	0	-0.86	-0.92	0	0	0	0	0	0
5/6/2024 8:07	55102	WERT_T2	0	0	0	0	0	0	-0.8	-0.78	2	2	0	1200	1200	0
5/6/2024 8:07	48902	FOSP_T2	0	0	0	0	0	0	0.43	0	1	1	0	1200	1200	0
5/6/2024 8:10	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 8:10	62602	ENGL_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
5/6/2024 8:11	42301	MOWR_T2	0	0	0	0	0	0	0.55	0.59	0	0	0	0	0	0
5/6/2024 8:14	53901	HALI_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
5/6/2024 8:14	53903	HALI_T2	2	2	0	0.85	1.5	0.65	-0.2	-0.21	0	0	0	0	0	0
5/6/2024 8:14	53902	HALI_T2	1	1	0	5.1	5.7	0.6	0	0	0	0	0	0	0	0
5/6/2024 8:15	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
5/6/2024 8:15	53903	HALI_T2	2	2	0	1.3	1.5	0.2	-0.2	-0.21	0	0	0	0	0	0
5/6/2024 8:15	53901	HALI_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
5/6/2024 8:16	64904	MILL_T1	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
5/6/2024 8:17	51004	NHAR_T1	13	13	0	1.39	1.27	-0.12	-0.42	-0.42	0	0	0	0	0	0
5/6/2024 8:17	51002	NHAR_T1	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
5/6/2024 8:17	51006	NHAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 8:18	17002	RIRO_T2	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
5/6/2024 8:20	14601	SWHI_T1	3	0	-3	0.9	0	-0.9	0	0	0	0	0	0	0	0
5/6/2024 8:20	14603	SWHI_T1	1	4	3	3	3.3	0.3	-1.1	-1.08	1	1	0	600	600	0
5/6/2024 8:21	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.05	0	0	0	0	0	0
5/6/2024 8:24	61702	ELIZ_T2	0	0	0	0	0	0	-2.23	-2.21	2	2	0	1500	1500	0
5/6/2024 8:24	61704	ELIZ_T2	5	5	0	0.94	1	0.06	0	0	0	0	0	0	0	0
5/6/2024 8:28	50105	HARR_T3	6	6	0	5.47	5.63	0.16	0	0	0	0	0	0	0	0
5/6/2024 8:28	50107	HARR_T3	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
5/6/2024 8:28	50201	HARR_T3	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/6/2024 8:28	50103	HARR_T3	2	2	0	0.8	0.25	-0.55	0	0	0	0	0	0	0	0
5/6/2024 8:28	50102	HARR_T3	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 8:35	54202	PENN_T2	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
5/6/2024 8:35	41902	REED_T1	0	0	0	0	0	0	1.13	1.14	0	0	0	0	0	0
5/6/2024 8:35	41901	REED_T1	8	9	1	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
5/6/2024 8:38	56802	BENV_T2	88	170	82	0.18	0.24	0.06	-1.43	-1.47	0	0	0	0	0	0
5/6/2024 8:41	56602	HAMP_T2	2	2	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
5/6/2024 8:41	56604	HAMP_T2	0	0	0	0	0	0	-0.59	-0.54	0	0	0	0	0	0
5/6/2024 8:41	56802	BENV_T2	88	170	82	0.18	0.24	0.06	-1.43	-1.47	0	0	0	0	0	0
5/6/2024 8:43	56802	BENV_T2	88	170	82	0.18	0.24	0.06	-1.43	-1.47	0	0	0	0	0	0
5/6/2024 8:44	61703	ELIZ_T1	0	0	0	0	0	0	-7.62	-7.6	6	6	0	6300	6300	0
5/6/2024 8:44	61701	ELIZ_T1	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
5/6/2024 8:51	14404	SSLA_T1	1	1	0	5.9	5.8	-0.1	-0.02	-0.03	0	0	0	0	0	0
5/6/2024 8:52	56802	BENV_T2	131	205	74	0.23	0.35	0.12	-1.43	-1.47	0	0	0	0	0	0
5/6/2024 8:52	14404	SSLA_T1	1	1	0	5.9	5.8	-0.1	-0.02	-0.03	0	0	0	0	0	0
5/6/2024 8:54	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 8:57	29401	BELT_T1	57	66	9	0.22	0.26	0.04	0	0	1	1	0	900	900	0
5/6/2024 8:57	29402	BELT_T1	1	1	0	8.5	9	0.5	0	0	0	0	0	0	0	0
5/6/2024 9:03	65702	RVIL_T2	0	0	0	0	0	0	-1.04	-1.03	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/6/2024 9:04	65702	RVIL_T2	0	0	0	0	0	0	-1.04	-1.03	1	1	0	600	600	0
5/6/2024 9:06	67703	WERN_T2	0	0	0	0	0	0	-0.35	-0.31	1	1	0	900	900	0
5/6/2024 9:06	65702	RVIL_T2	0	0	0	0	0	0	-1.04	-1.03	1	1	0	600	600	0
5/6/2024 9:10	67703	WERN_T2	0	0	0	0	0	0	-0.31	-0.31	1	1	0	900	900	0
5/6/2024 9:16	40101	HUNT_T2	0	1	1	0	0	0	-0.11	-0.05	0	0	0	0	0	0
5/6/2024 9:17	45501	DERR_T2	0	0	0	0	0	0	0.45	0.39	2	2	0	1800	1800	0
5/6/2024 9:17	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 9:19	66504	SMAN_T2	0	0	0	0	0	0	-0.88	-1.03	0	0	0	0	0	0
5/6/2024 9:24	67703	WERN_T2	0	0	0	0	0	0	-0.31	-0.33	1	1	0	900	900	0
5/6/2024 9:24	59101	WALK_T2	0	0	0	0	0	0	1	0.72	0	0	0	0	0	0
5/6/2024 9:25	67703	WERN_T2	0	0	0	0	0	0	-0.31	-0.33	1	1	0	900	900	0
5/6/2024 9:27	61701	ELIZ_T1	1	2	1	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
5/6/2024 9:27	61703	ELIZ_T1	0	0	0	0	0	0	-2.69	-2.66	2	2	0	2100	2100	0
5/6/2024 9:29	63804	HEMP_T1	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
5/6/2024 9:29	63803	HEMP_T1	0	1	1	0	0.1	0.1	0.06	0.07	0	0	0	0	0	0
5/6/2024 9:30	62601	ENGL_T1	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
5/6/2024 9:30	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 9:31	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 9:31	62605	ENGL_T1	0	0	0	0	0	0	-0.83	-0.75	0	0	0	0	0	0
5/6/2024 9:37	13704	SCHN_T2	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
5/6/2024 9:48	55001	NEWP_T1	5	10	5	0.18	0.21	0.03	0	0	0	0	0	0	0	0
5/6/2024 9:48	64101	REFR_T1	0	0	0	0	0	0	-0.81	-0.79	0	0	0	0	0	0
5/6/2024 9:48	55002	NEWP_T1	6	6	0	1.18	1.13	-0.05	-0.25	-0.25	0	0	0	0	0	0
5/6/2024 9:49	64101	REFR_T1	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
5/6/2024 9:50	55001	NEWP_T1	5	10	5	0.18	0.21	0.03	0	0	0	0	0	0	0	0
5/6/2024 9:50	55002	NEWP_T1	6	6	0	1.18	1.13	-0.05	-0.5	-0.5	0	0	0	0	0	0
5/6/2024 9:51	55001	NEWP_T1	5	10	5	0.18	0.21	0.03	-0.32	-0.3	0	0	0	0	0	0
5/6/2024 9:51	55002	NEWP_T1	6	6	0	1.18	1.13	-0.05	-0.25	-0.25	0	0	0	0	0	0
5/6/2024 9:51	64101	REFR_T1	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
5/6/2024 9:53	45902	AUBU_T1	0	0	0	0	0	0	-0.52	-0.55	1	1	0	600	600	0
5/6/2024 9:57	45902	AUBU_T1	0	0	0	0	0	0	-0.52	-0.55	1	1	0	600	600	0
5/6/2024 10:00	43102	SMIL_T2	4	1	-3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/6/2024 10:00	53501	EVIL_T2	2	2	0	0.45	0.6	0.15	0.19	-0.54	4	4	0	2400	2400	0
5/6/2024 10:00	24105	EHAZ_T1	4	4	0	6.25	6.4	0.15	-0.6	-0.58	1	1	0	1200	1200	0
5/6/2024 10:00	40101	HUNT_T2	1	2	1	0.6	0.2	-0.4	-0.28	-0.22	0	0	0	0	0	0
5/6/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.3	1.28	0	0	0	0	0	0
5/6/2024 10:00	60501	NMAN_T2	3	3	0	3.87	4.5	0.63	0	0	0	0	0	0	0	0
5/6/2024 10:00	42204	SHEN_T2	0	1	1	0	0	0	-0.04	-0.03	1	1	0	1200	1200	0
5/6/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	-0.52	-0.55	1	1	0	600	600	0
5/6/2024 10:00	63806	GREE_T1	0	0	0	0	0	0	-1	-1.11	0	0	0	0	0	0
5/6/2024 10:00	17002	RIRO_T2	1	2	1	0.5	0.45	-0.05	0.65	0.59	0	0	0	0	0	0
5/6/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
5/6/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-1.42	-1.41	2	2	0	1800	1800	0
5/6/2024 10:00	65003	NEFF_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
5/6/2024 10:00	25603	ARRO_T1	0	1	1	0	0.1	0.1	-0.21	-0.18	0	0	0	0	0	0
5/6/2024 10:00	17001	RIRO_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
5/6/2024 10:00	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-0.42	-0.54	1	1	0	1200	1200	0
5/6/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	-0.39	-0.29	0	0	0	0	0	0
5/6/2024 10:00	62607	ENGL_T1	1	1	0	0	0	0	-0.85	-0.83	0	0	0	0	0	0
5/6/2024 10:00	12604	MACA_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
5/6/2024 10:00	23001	SAJO_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
5/6/2024 10:00	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/6/2024 10:00	56501	ROCK_T2	1	1	0	3.3	0	-3.3	-0.01	-0.01	0	0	0	0	0	0
5/6/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
5/6/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	-0.79	-0.73	0	0	0	0	0	0
5/6/2024 10:00	46001	BERW_T2	0	0	0	0	0	0	-0.62	-0.6	1	1	0	900	900	0
5/6/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	-0.1	-0.1	2	2	0	1200	1200	0
5/6/2024 10:00	43103	SMIL_T2	9	16	7	0.34	0.46	0.12	0	0	0	0	0	0	0	0
5/6/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
5/6/2024 10:00	16103	BING_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/6/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
5/6/2024 10:00	11101	EGYP_T1	0	0	0	0	0	0	3.3	3.26	0	0	0	0	0	0
5/6/2024 10:00	41902	REED_T1	0	0	0	0	0	0	0.97	1	0	0	0	0	0	0
5/6/2024 10:00	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/6/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
5/6/2024 10:00	62605	ENGL_T1	0	0	0	0	0	0	-0.81	-0.77	0	0	0	0	0	0
5/6/2024 10:00	15103	LIPHA_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
5/6/2024 10:00	42903	MIDD_T2	0	0	0	0	0	0	0.59	0.55	1	1	0	1200	1200	0
5/6/2024 10:00	54001	SDLE_T1	9	2	-7	0.64	0.55	-0.09	0	0	1	0	-1	600	0	-600
5/6/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 10:00	56601	HAMP_T1	0	0	0	0	0	0	-1.91	-1.86	0	0	0	0	0	0
5/6/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
5/6/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
5/6/2024 10:00	56803	BENV_T1	198	30	-168	0.67	0.35	-0.32	-0.12	-0.12	1	1	0	600	600	0
5/6/2024 10:00	42002	MNVL_T2	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0	0
5/6/2024 10:00	13704	SCHN_T2	0	0	0	0	0	0	-0.29	-0.33	0	0	0	0	0	0
5/6/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	0.09	0.15	0	0	0	0	0	0
5/6/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	0.26	0.14	0	0	0	0	0	0
5/6/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	0.36	0.4	2	2	0	1800	1800	0
5/6/2024 10:00	43104	SMIL_T2	0	0	0	0	0	0	-0.82	-0.84	1	1	0	300	300	0
5/6/2024 10:00	45602	WOOL_T1	2	3	1	0.65	0.53	-0.12	0.43	0.47	0	0	0	0	0	0
5/6/2024 10:00	61302	EARL_T1	0	0	0	0	0	0	0.9	0.03	2	3	1	1800	2700	900
5/6/2024 10:00	42001	MNVL_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
5/6/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	1.03	0.92	0	0	0	0	0	0
5/6/2024 10:00	16605	PONO_T1	0	0	0	0	0	0	-0.5	-0.49	1	1	0	1200	1200	0
5/6/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
5/6/2024 10:00	24701	FLND_T2	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
5/6/2024 10:00	16102	BING_T2	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
5/6/2024 10:00	56801	BENV_T1	17	17	0	0.99	0.99	0	0	0	0	0	0	0	0	0
5/6/2024 10:00	41901	REED_T1	8	9	1	0.29	0.4	0.11	0	0	0	0	0	0	0	0
5/6/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.32	-0.37	0	0	0	0	0	0
5/6/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0
5/6/2024 10:00	17101	WTRE_T2	754	727	-27	0.54	0.5	-0.04	0	0	0	0	0	0	0	0
5/6/2024 10:00	53903	HALI_T2	2	2	0	0.95	1.2	0.25	0	0	0	0	0	0	0	0
5/6/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.37	0.37	1	1	0	600	600	0
5/6/2024 10:00	46203	DANV_T2	0	0	0	0	0	0	-0.76	0.51	0	0	0	0	0	0
5/6/2024 10:00	51004	NHAR_T1	13	13	0	0.85	1	0.15	0	0	0	0	0	0	0	0
5/6/2024 10:00	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
5/6/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.11	-0.06	1	1	0	600	600	0
5/6/2024 10:00	14603	SWHI_T1	1	1	0	3	2.8	-0.2	0	0	0	0	0	0	0	0
5/6/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.09	-0.01	1	1	0	600	600	0
5/6/2024 10:00	53901	HALI_T2	1	1	0	0.6	0.7	0.1	-2.04	-2.08	0	0	0	0	0	0
5/6/2024 10:00	67002	STHI_T2	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
5/6/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	1	1	0	0	0	0	0	0
5/6/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-1.43	-1.53	2	2	0	2100	2100	0
5/6/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
5/6/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.2	-0.29	0	0	0	0	0	0
5/6/2024 10:00	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 10:00	66504	SMAN_T2	0	0	0	0	0	0	-0.75	-0.57	0	0	0	0	0	0
5/6/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-1.29	-1.12	1	1	0	600	600	0
5/6/2024 10:00	63801	HEMP_T1	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
5/6/2024 10:00	12807	MICK_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/6/2024 10:00	51002	NHAR_T1	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
5/6/2024 10:00	40505	CRES_T1	3	3	0	4.47	4.4	-0.07	0.39	0.33	0	0	0	0	0	0
5/6/2024 10:00	12802	MICK_T1	0	0	0	0	0	0	-1.21	-1.21	0	0	0	0	0	0
5/6/2024 10:00	63804	HEMP_T1	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
5/6/2024 10:04	13704	SCHN_T2	0	0	0	0	0	0	-0.29	-0.33	0	0	0	0	0	0
5/6/2024 10:05	67001	STHI_T2	1	1	0	0.1	0.1	0	0.04	0.04	0	0	0	0	0	0
5/6/2024 10:06	67803	WLAN_T1	0	0	0	0	0	0	-0.92	-0.93	0	0	0	0	0	0
5/6/2024 10:06	64801	MONE_T2	1	1	0	0.5	0.4	-0.1	0.25	0.27	0	0	0	0	0	0
5/6/2024 10:06	57101	SPHI_T2	6	6	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
5/6/2024 10:06	57106	SPHI_T2	3	3	0	1.3	1.57	0.27	0	0	0	0	0	0	0	0
5/6/2024 10:06	29401	BELT_T1	37	51	14	0.18	0.22	0.04	0	0	3	3	0	2700	2700	0
5/6/2024 10:06	64305	LINC_T1	0	0	0	0	0	0	0.01	0.05	0	0	0	0	0	0
5/6/2024 10:06	29402	BELT_T1	1	1	0	8.7	8.8	0.1	0	0	0	0	0	0	0	0
5/6/2024 10:06	53802	MBRG_T2	0	1	1	0	0	0	0.55	0.43	0	0	0	0	0	0
5/6/2024 10:06	57104	SPHI_T2	0	1	1	0	0	0	-1.16	-1.11	0	0	0	0	0	0
5/6/2024 10:06	64302	LINC_T2	0	0	0	0	0	0	1.07	1.01	0	0	0	0	0	0
5/6/2024 10:06	67804	WLAN_T1	0	0	0	0	0	0	-1.16	-1.15	0	0	0	0	0	0
5/6/2024 10:06	67801	WLAN_T1	0	0	0	0	0	0	0.97	0.99	0	0	0	0	0	0
5/6/2024 10:06	67001	STHI_T2	1	1	0	0.1	0.1	0	0.04	0.04	0	0	0	0	0	0
5/6/2024 10:07	40701	FFLD_T1	4	15	11	0.1	0.12	0.02	0	0	0	0	0	0	0	0
5/6/2024 10:07	58803	COCO_T1	1	1	0	2.3	2.2	-0.1	0	0	0	0	0	0	0	0
5/6/2024 10:07	53903	HALI_T2	2	2	0	0.95	1.2	0.25	-0.13	-0.19	0	0	0	0	0	0
5/6/2024 10:07	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 10:07	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
5/6/2024 10:07	54602	SUMM_T2	2	16	14	0.1	0.29	0.19	-2.49	-2.45	1	1	0	600	600	0
5/6/2024 10:07	63401	HONY_T1	0	0	0	0	0	0	0.63	0.12	0	1	1	0	600	600
5/6/2024 10:07	50701	SMEC_T1	0	0	0	0	0	0	0.31	0.21	0	0	0	0	0	0
5/6/2024 10:07	58102	NEKI_T1	1	1	0	0.7	0.7	0	0.31	0.24	0	0	0	0	0	0
5/6/2024 10:07	56501	ROCK_T2	1	1	0	3.3	0	-3.3	-0.01	-0.01	0	0	0	0	0	0
5/6/2024 10:07	53901	HALI_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/6/2024 10:07	64101	REFR_T1	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
5/6/2024 10:07	40101	HUNT_T2	1	2	1	0.6	0.2	-0.4	-0.14	-0.11	0	0	0	0	0	0
5/6/2024 10:07	45602	WOOL_T1	2	3	1	0.65	0.53	-0.12	0.43	0.47	0	0	0	0	0	0
5/6/2024 10:07	40703	FFLD_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
5/6/2024 10:07	45902	AUBU_T1	0	0	0	0	0	0	-0.52	-0.55	1	1	0	600	600	0
5/6/2024 10:07	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.64	1	1	0	900	900	0
5/6/2024 10:07	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 10:07	54601	SUMM_T2	12	13	1	0.4	0.75	0.35	0	0	0	0	0	0	0	0
5/6/2024 10:08	67605	WARW_T1	8	9	1	0.24	0.24	0	0	0	0	0	0	0	0	0
5/6/2024 10:08	43304	WATS_T2	0	0	0	0	0	0	0	0	1	0	-1	600	0	-600
5/6/2024 10:08	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
5/6/2024 10:08	10801	CHHI_T1	0	0	0	0	0	0	0	0	0	2	2	0	1200	1200
5/6/2024 10:08	44505	HAMI_T2	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
5/6/2024 10:08	67001	STHI_T2	1	1	0	0.1	0.1	0	0.04	0.04	0	0	0	0	0	0
5/6/2024 10:08	67803	WLAN_T1	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
5/6/2024 10:08	53501	EVIL_T2	2	2	0	0.45	0.6	0.15	-0.27	-0.27	2	2	0	1200	1200	0
5/6/2024 10:08	40101	HUNT_T2	1	2	1	0.6	0.2	-0.4	-0.11	-0.04	0	0	0	0	0	0
5/6/2024 10:08	67603	WARW_T1	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
5/6/2024 10:08	22102	EDEL_T1	0	0	0	0	0	0	-0.63	-0.5	1	1	0	1200	1200	0
5/6/2024 10:09	58402	MORO_T1	0	0	0	0	0	0	-1.01	-1	3	3	0	2400	2400	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/6/2024 10:09	43801	SWIL_T1	1	2	1	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
5/6/2024 10:09	43802	SWIL_T1	0	0	0	0	0	0	-0.18	-0.16	1	1	0	600	600	0
5/6/2024 10:09	64101	REFR_T1	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
5/6/2024 10:09	51702	OBER_T1	2	2	0	3.15	3.2	0.05	-0.51	-0.48	0	0	0	0	0	0
5/6/2024 10:09	67803	WLAN_T1	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
5/6/2024 10:10	67804	WLAN_T1	0	0	0	0	0	0	-2.3	-2.3	0	0	0	0	0	0
5/6/2024 10:10	29402	BELT_T1	1	1	0	8.7	8.8	0.1	0	0	0	0	0	0	0	0
5/6/2024 10:10	29401	BELT_T1	37	51	14	0.18	0.22	0.04	0	0	1	1	0	900	900	0
5/6/2024 10:12	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 10:12	41502	FAIR_T2	0	0	0	0	0	0	-0.66	-0.7	0	0	0	0	0	0
5/6/2024 10:12	67804	WLAN_T1	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
5/6/2024 10:19	42201	SHEN_T2	0	0	0	0	0	0	-0.01	0.03	1	1	0	600	600	0
5/6/2024 10:20	58001	WCAR_T1	4	4	0	0.98	0.95	-0.03	0	0	0	0	0	0	0	0
5/6/2024 10:20	58003	WCAR_T1	1	1	0	1.2	1.2	0	0.79	0.77	0	0	0	0	0	0
5/6/2024 10:23	57006	WHHI_T2	1	1	0	0.2	0.3	0.1	-0.25	-0.3	0	0	0	0	0	0
5/6/2024 10:24	58003	WCAR_T1	1	1	0	1.2	1.2	0	0.77	0.86	0	0	0	0	0	0
5/6/2024 10:24	58001	WCAR_T1	4	4	0	0.98	0.95	-0.03	0	0	0	0	0	0	0	0
5/6/2024 10:26	67703	WERN_T2	0	0	0	0	0	0	-0.31	-0.28	1	1	0	900	900	0
5/6/2024 10:26	67804	WLAN_T1	0	0	0	0	0	0	-1.15	-1.16	0	0	0	0	0	0
5/6/2024 10:27	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 10:36	41901	REED_T1	9	6	-3	0.4	0.18	-0.22	0	0	0	0	0	0	0	0
5/6/2024 10:36	41902	REED_T1	0	0	0	0	0	0	1.08	1.25	0	0	0	0	0	0
5/6/2024 10:37	67505	WEWI_T1	0	0	0	0	0	0	-0.09	-0.14	1	1	0	900	900	0
5/6/2024 10:38	13302	ORVI_T2	0	0	0	0	0	0	1.35	1.39	0	0	0	0	0	0
5/6/2024 10:38	67505	WEWI_T1	0	0	0	0	0	0	-0.14	-0.2	1	1	0	900	900	0
5/6/2024 10:38	16302	ALPA_T2	0	0	0	0	0	0	1.28	1.32	0	0	0	0	0	0
5/6/2024 10:38	67502	WEWI_T2	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
5/6/2024 10:41	16302	ALPA_T2	0	0	0	0	0	0	0.66	0.7	0	0	0	0	0	0
5/6/2024 10:41	57006	WHHI_T2	1	6	5	0.3	0.13	-0.17	-0.3	-0.32	0	0	0	0	0	0
5/6/2024 10:44	45702	LIND_T2	1	0	-1	0.3	0	-0.3	-0.5	-0.48	0	0	0	0	0	0
5/6/2024 10:44	46206	DANV_T2	0	0	0	0	0	0	2.29	2.35	1	1	0	1200	1200	0
5/6/2024 10:46	54203	PENN_T1	18	20	2	1.47	1.53	0.06	0.13	0.14	0	0	0	0	0	0
5/6/2024 10:46	54201	PENN_T1	66	191	125	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
5/6/2024 10:47	54501	ENOL_T2	1	4	3	0.1	0.45	0.35	-0.53	-0.56	1	1	0	600	600	0
5/6/2024 10:47	44301	BEAV_T2	1	2	1	1.5	0.35	-1.15	0.9	0.95	2	2	0	1500	1500	0
5/6/2024 10:47	67502	WEWI_T2	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
5/6/2024 10:47	54504	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 10:47	40602	PIGR_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/6/2024 10:47	40603	PIGR_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
5/6/2024 10:47	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
5/6/2024 10:47	42201	SHEN_T2	0	0	0	0	0	0	-0.02	0	1	1	0	600	600	0
5/6/2024 10:47	47001	HUGH_T2	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
5/6/2024 10:47	54502	ENOL_T2	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
5/6/2024 10:47	16302	ALPA_T2	0	0	0	0	0	0	0.66	0.7	0	0	0	0	0	0
5/6/2024 10:47	67703	WERN_T2	0	0	0	0	0	0	-0.28	-0.27	1	1	0	900	900	0
5/6/2024 10:47	40601	PIGR_T1	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
5/6/2024 10:48	54201	PENN_T1	66	191	125	0.35	0.3	-0.05	-0.91	-0.9	0	0	0	0	0	0
5/6/2024 10:48	54203	PENN_T1	18	20	2	1.47	1.53	0.06	0	0	0	0	0	0	0	0
5/6/2024 10:49	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 10:49	54504	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 10:49	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
5/6/2024 10:49	54501	ENOL_T2	1	4	3	0.1	0.45	0.35	0	0	0	0	0	0	0	0
5/6/2024 10:49	54502	ENOL_T2	1	1	0	1.8	1.8	0	-1.06	-1.16	1	1	0	600	600	0
5/6/2024 10:50	10801	CHHI_T1	52	0	-52	8.29	0	-8.29	0.01	0	1	1	0	600	600	0
5/6/2024 10:51	54504	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 10:51	54501	ENOL_T2	1	4	3	0.1	0.45	0.35	0	0	0	0	0	0	0	0
5/6/2024 10:51	54502	ENOL_T2	1	1	0	1.8	1.8	0	-2.11	-2.32	2	2	0	1200	1200	0
5/6/2024 10:51	57203	ROSS_T1	0	1	1	0	0.1	0.1	-0.34	-0.34	0	0	0	0	0	0
5/6/2024 10:51	57205	ROSS_T1	1	1	0	0.2	1.3	1.1	0	0	0	0	0	0	0	0
5/6/2024 10:51	54202	PENN_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
5/6/2024 10:51	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
5/6/2024 10:52	57203	ROSS_T1	0	1	1	0	0.1	0.1	-0.34	-0.34	0	0	0	0	0	0
5/6/2024 10:52	57205	ROSS_T1	1	1	0	0.2	1.3	1.1	0	0	0	0	0	0	0	0
5/6/2024 10:52	54203	PENN_T1	18	20	2	1.47	1.53	0.06	0.13	0.14	0	0	0	0	0	0
5/6/2024 10:52	54201	PENN_T1	66	191	125	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
5/6/2024 10:54	43103	SMIL_T2	10	15	5	0.32	0.48	0.16	-0.89	-0.88	0	0	0	0	0	0
5/6/2024 10:54	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/6/2024 10:54	43102	SMIL_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
5/6/2024 10:55	42701	AUGU_T1	1	1	0	1.2	1.1	-0.1	0	0	2	2	0	1800	1800	0
5/6/2024 10:56	63304	GREE_T1	0	0	0	0	0	0	-0.42	-0.39	0	0	0	0	0	0
5/6/2024 10:56	40901	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/6/2024 10:56	42701	AUGU_T1	1	1	0	1.2	1.1	-0.1	0	0	4	4	0	3600	3600	0
5/6/2024 10:56	40902	JESH_T1	0	0	0	0	0	0	-0.06	0.08	0	0	0	0	0	0
5/6/2024 10:59	54601	SUMM_T2	13	13	0	0.65	0.88	0.23	0	0	0	0	0	0	0	0
5/6/2024 10:59	63801	HEMP_T1	0	0	0	0	0	0	0.36	0.27	0	0	0	0	0	0
5/6/2024 10:59	54603	SUMM_T2	0	3	3	0	0.1	0.1	-0.75	-0.67	1	1	0	900	900	0
5/6/2024 10:59	54602	SUMM_T2	8	12	4	0.15	0.29	0.14	0	0	0	0	0	0	0	0
5/6/2024 10:59	63804	HEMP_T1	1	1	0	6.8	6	-0.8	0	0	0	0	0	0	0	0
5/6/2024 11:00	64904	MILL_T1	0	0	0	0	0	0	0.47	0.52	0	0	0	0	0	0
5/6/2024 11:02	65004	NEFF_T2	0	28	28	0	0.11	0.11	-0.54	-0.55	0	0	0	0	0	0
5/6/2024 11:02	65003	NEFF_T2	0	132	132	0	0.19	0.19	0	0	0	0	0	0	0	0
5/6/2024 11:02	65002	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/6/2024 11:02	65001	NEFF_T2	0	241	241	0	0.29	0.29	0	0	0	0	0	0	0	0
5/6/2024 11:03	65002	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/6/2024 11:03	66503	SMAN_T2	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
5/6/2024 11:03	65003	NEFF_T2	0	132	132	0	0.19	0.19	0	0	0	0	0	0	0	0
5/6/2024 11:03	65004	NEFF_T2	0	28	28	0	0.11	0.11	-0.54	-0.55	0	0	0	0	0	0
5/6/2024 11:03	65001	NEFF_T2	0	241	241	0	0.29	0.29	0	0	0	0	0	0	0	0
5/6/2024 11:04	65001	NEFF_T2	0	241	241	0	0.29	0.29	-0.45	-0.55	1	1	0	1200	1200	0
5/6/2024 11:04	57205	ROSS_T1	1	1	0	0.7	1.3	0.6	0.28	0.32	0	0	0	0	0	0
5/6/2024 11:04	57203	ROSS_T1	0	1	1	0	0.1	0.1	-0.34	-0.32	0	0	0	0	0	0
5/6/2024 11:04	65004	NEFF_T2	0	28	28	0	0.11	0.11	0	0	0	0	0	0	0	0
5/6/2024 11:04	65003	NEFF_T2	0	132	132	0	0.19	0.19	0	0	0	0	0	0	0	0
5/6/2024 11:04	65002	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/6/2024 11:05	13303	ORVI_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
5/6/2024 11:05	57205	ROSS_T1	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
5/6/2024 11:05	57203	ROSS_T1	0	1	1	0	0.1	0.1	-0.34	-0.32	0	0	0	0	0	0
5/6/2024 11:08	23001	SAJO_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
5/6/2024 11:09	16301	ALPA_T1	1	1	0	0.3	0.3	0	-0.44	-0.45	0	0	0	0	0	0
5/6/2024 11:09	15001	BLMO_T1	3	3	0	0.1	0.17	0.07	0	0	0	0	0	0	0	0
5/6/2024 11:11	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
5/6/2024 11:13	54501	ENOL_T2	4	4	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
5/6/2024 11:13	54502	ENOL_T2	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
5/6/2024 11:13	54504	ENOL_T2	0	0	0	0	0	0	-1.12	-1.12	1	1	0	600	600	0
5/6/2024 11:13	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
5/6/2024 11:14	54502	ENOL_T2	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
5/6/2024 11:14	53902	HALI_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/6/2024 11:14	53903	HALI_T2	2	2	0	1.2	1.35	0.15	0	0	0	0	0	0	0	0
5/6/2024 11:14	63803	HEMP_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
5/6/2024 11:14	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
5/6/2024 11:14	53901	HALI_T2	1	1	0	0.5	0.8	0.3	-0.98	-1.01	0	0	0	0	0	0
5/6/2024 11:14	54501	ENOL_T2	4	4	0	0.2	0.45	0.25	-0.5	-0.56	1	1	0	600	600	0
5/6/2024 11:14	63804	HEMP_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
5/6/2024 11:19	12801	MICK_T1	0	0	0	0	0	0	-0.01	-0.02	1	1	0	600	600	0
5/6/2024 11:19	12807	MICK_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/6/2024 11:20	58401	MORO_T1	0	0	0	0	0	0	-0.85	-0.88	1	1	0	600	600	0
5/6/2024 11:21	45902	AUBU_T1	0	0	0	0	0	0	-0.49	-0.5	1	1	0	600	600	0
5/6/2024 11:21	49803	UNIV_T1	0	1	1	0	0	0	-0.98	-0.96	0	0	0	0	0	0
5/6/2024 11:21	49804	UNIV_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/6/2024 11:22	45902	AUBU_T1	0	0	0	0	0	0	-0.49	-0.5	1	1	0	600	600	0
5/6/2024 11:23	59101	WALK_T2	0	0	0	0	0	0	2.07	2.21	0	0	0	0	0	0
5/6/2024 11:23	41903	REED_T1	0	0	0	0	0	0	0.13	0.09	1	1	0	1200	1200	0
5/6/2024 11:23	67803	WLAN_T1	0	0	0	0	0	0	-0.91	-0.91	0	0	0	0	0	0
5/6/2024 11:23	41901	REED_T1	6	9	3	0.2	0.31	0.11	0	0	0	0	0	0	0	0
5/6/2024 11:24	67803	WLAN_T1	0	0	0	0	0	0	-0.91	-0.91	0	0	0	0	0	0
5/6/2024 11:24	67805	WLAN_T1	0	0	0	0	0	0	-0.86	-0.89	0	0	0	0	0	0
5/6/2024 11:24	67703	WERN_T2	0	0	0	0	0	0	-0.54	-0.56	2	2	0	1800	1800	0
5/6/2024 11:25	67802	WLAN_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
5/6/2024 11:25	44301	BEAV_T2	2	1	-1	0.35	0.2	-0.15	1.07	0.89	2	2	0	1500	1500	0
5/6/2024 11:25	59101	WALK_T2	0	0	0	0	0	0	2.07	2.21	0	0	0	0	0	0
5/6/2024 11:26	45602	WOOL_T1	2	3	1	0.7	0.63	-0.07	1.04	0.98	0	0	0	0	0	0
5/6/2024 11:26	67803	WLAN_T1	0	0	0	0	0	0	-0.91	-0.91	0	0	0	0	0	0
5/6/2024 11:26	45902	AUBU_T1	0	0	0	0	0	0	-0.5	-0.46	1	1	0	600	600	0
5/6/2024 11:27	60902	DONG_T2	0	0	0	0	0	0	0.73	0.81	0	0	0	0	0	0
5/6/2024 11:27	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/6/2024 11:27	67703	WERN_T2	0	0	0	0	0	0	-0.27	-0.28	1	1	0	900	900	0
5/6/2024 11:27	42501	ALTA_T2	0	0	0	0	0	0	0.14	0.15	1	1	0	600	600	0
5/6/2024 11:27	42503	ALTA_T2	80	12	-68	0.45	0	-0.45	0	0	0	0	0	0	0	0
5/6/2024 11:27	67803	WLAN_T1	0	0	0	0	0	0	-0.91	-0.91	0	0	0	0	0	0
5/6/2024 11:27	40801	EXCH_T2	3	3	0	0.17	0.23	0.06	-0.48	-0.47	1	1	0	1200	1200	0
5/6/2024 11:28	42503	ALTA_T2	80	12	-68	0.45	0	-0.45	-0.91	-1.35	0	0	0	0	0	0
5/6/2024 11:29	42501	ALTA_T2	0	0	0	0	0	0	0.14	0.15	1	1	0	600	600	0
5/6/2024 11:29	42503	ALTA_T2	80	12	-68	0.45	0	-0.45	0	0	0	0	0	0	0	0
5/6/2024 11:30	54602	SUMM_T2	8	9	1	0.16	0.12	-0.04	0	0	0	0	0	0	0	0
5/6/2024 11:30	54601	SUMM_T2	13	13	0	0.65	0.47	-0.18	0	0	0	0	0	0	0	0
5/6/2024 11:30	54603	SUMM_T2	0	0	0	0	0	0	-0.66	-0.67	1	1	0	900	900	0
5/6/2024 11:31	42902	MIDD_T2	5	1	-4	0.38	0.2	-0.18	-0.55	-0.58	2	2	0	900	900	0
5/6/2024 11:32	42902	MIDD_T2	5	1	-4	0.38	0.2	-0.18	-0.55	-0.58	2	2	0	900	900	0
5/6/2024 11:35	57401	SPAN_T1	4	4	0	0.6	0.58	-0.02	0	0	0	0	0	0	0	0
5/6/2024 11:35	57403	SPAN_T1	94	55	-39	0.25	0.27	0.02	-0.03	-0.05	0	0	0	0	0	0
5/6/2024 11:36	49803	UNIV_T1	1	0	-1	9.6	0	-9.6	0	0	0	0	0	0	0	0
5/6/2024 11:36	57401	SPAN_T1	4	4	0	0.6	0.58	-0.02	-2.33	-2.21	2	2	0	1200	1200	0
5/6/2024 11:36	49804	UNIV_T1	1	1	0	0.6	0.5	-0.1	1.07	1.07	0	0	0	0	0	0
5/6/2024 11:36	57403	SPAN_T1	94	55	-39	0.25	0.27	0.02	-0.03	-0.05	0	0	0	0	0	0
5/6/2024 11:37	57403	SPAN_T1	94	55	-39	0.25	0.27	0.02	0	0	0	0	0	0	0	0
5/6/2024 11:37	57401	SPAN_T1	4	4	0	0.6	0.58	-0.02	-1.16	-1.11	1	1	0	600	600	0
5/6/2024 11:39	26001	WDAM_T1	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
5/6/2024 11:41	42701	AUGU_T1	1	1	0	1.1	1.1	0	0	0	2	2	0	1800	1800	0
5/6/2024 11:42	42701	AUGU_T1	1	1	0	1.1	1.1	0	0	0	2	2	0	1800	1800	0
5/6/2024 11:43	61704	ELIZ_T2	4	5	1	0.2	0.2	0	0	0	0	0	0	0	0	0
5/6/2024 11:43	61702	ELIZ_T2	0	3	3	0	0.17	0.17	-2.14	-2.17	2	2	0	1500	1500	0
5/6/2024 11:46	65503	MOJO_T2	0	2	2	0	0.4	0.4	-0.91	-1	1	1	0	900	900	0
5/6/2024 11:46	16402	MORO_T1	0	1	1	0	0.2	0.2	0.12	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/6/2024 11:47	60502	NMAN_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
5/6/2024 11:47	65503	MOJO_T2	0	2	2	0	0.4	0.4	-0.91	-1	1	1	0	900	900	0
5/6/2024 11:47	60501	NMAN_T2	3	3	0	4.87	5.07	0.2	0	0	0	0	0	0	0	0
5/6/2024 11:49	42802	SELI_T1	0	1	1	0	0.4	0.4	-0.69	-0.69	1	1	0	900	900	0
5/6/2024 11:50	47401	PENS_T1	2	3	1	0.55	0.73	0.18	0.97	1.06	0	0	0	0	0	0
5/6/2024 11:50	47403	PENS_T1	1	5	4	1.2	0.62	-0.58	0	0	0	0	0	0	0	0
5/6/2024 11:50	47402	PENS_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/6/2024 11:51	42802	SELI_T1	0	1	1	0	0.4	0.4	-0.69	-0.69	1	1	0	900	900	0
5/6/2024 11:52	47401	PENS_T1	2	3	1	0.55	0.73	0.18	0.97	1.06	0	0	0	0	0	0
5/6/2024 11:52	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.38	1	1	0	600	600	0
5/6/2024 11:52	47403	PENS_T1	1	5	4	1.2	0.62	-0.58	0	0	0	0	0	0	0	0
5/6/2024 11:52	47402	PENS_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/6/2024 11:53	45902	AUBU_T1	0	0	0	0	0	0	-0.75	-0.8	2	2	0	1200	1200	0
5/6/2024 11:54	61704	ELIZ_T2	5	5	0	0.18	0.46	0.28	0	0	0	0	0	0	0	0
5/6/2024 11:54	61702	ELIZ_T2	0	3	3	0	0.17	0.17	-2.17	-2.08	2	2	0	1500	1500	0
5/6/2024 11:55	11301	EMMA_T1	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
5/6/2024 11:57	45902	AUBU_T1	0	0	0	0	0	0	-0.38	-0.4	1	1	0	600	600	0
5/6/2024 11:57	11301	EMMA_T1	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
5/6/2024 11:59	45902	AUBU_T1	0	0	0	0	0	0	-0.38	-0.4	1	1	0	600	600	0
5/6/2024 12:00	23203	HIRU_T2	0	0	0	0	0	0	0.15	0.05	0	0	0	0	0	0
5/6/2024 12:00	59301	MCAL_T1	3	56	53	0.9	0.32	-0.58	0	0	0	0	0	0	0	0
5/6/2024 12:00	11301	EMMA_T1	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
5/6/2024 12:00	59302	MCAL_T1	0	1	1	0	0.2	0.2	-0.43	-0.14	1	1	0	600	600	0
5/6/2024 12:03	65401	MARI_T1	0	0	0	0	0	0	-0.38	0.26	0	0	0	0	0	0
5/6/2024 12:03	13503	MCMI_T2	1	1	0	0.1	0.3	0.2	-0.01	-0.01	0	0	0	0	0	0
5/6/2024 12:04	65901	SAKR_T2	1	1	0	8.7	9.1	0.4	-1.04	-1.14	1	1	0	900	900	0
5/6/2024 12:05	14603	SWHI_T1	1	3	2	3.4	3.1	-0.3	-1.08	-1.07	1	1	0	600	600	0
5/6/2024 12:06	65604	QVIL_T2	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
5/6/2024 12:06	65401	MARI_T1	0	0	0	0	0	0	-0.75	0.52	0	0	0	0	0	0
5/6/2024 12:07	42701	AUGU_T1	1	2	1	1	0.55	-0.45	0	0	2	2	0	1800	1800	0
5/6/2024 12:07	55102	WERT_T2	0	0	0	0	0	0	-0.46	-0.55	2	2	0	1200	1200	0
5/6/2024 12:08	43102	SMIL_T2	7	5	-2	0.24	0.28	0.04	0	0	0	0	0	0	0	0
5/6/2024 12:08	43108	SMIL_T2	0	0	0	0	0	0	0.4	0.34	0	0	0	0	0	0
5/6/2024 12:08	43103	SMIL_T2	8	16	8	0.33	0.53	0.2	0	0	0	0	0	0	0	0
5/6/2024 12:08	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/6/2024 12:08	45902	AUBU_T1	0	0	0	0	0	0	-0.4	-0.49	1	1	0	600	600	0
5/6/2024 12:09	45902	AUBU_T1	0	0	0	0	0	0	-0.4	-0.49	1	1	0	600	600	0
5/6/2024 12:10	26002	WDAM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/6/2024 12:10	26001	WDAM_T1	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
5/6/2024 12:10	20401	ASHF_T2	2	2	0	0.15	0.3	0.15	-0.18	-0.25	0	0	0	0	0	0
5/6/2024 12:10	20403	ASHF_T2	1	4	3	0.2	0.33	0.13	0	0	0	0	0	0	0	0
5/6/2024 12:12	42701	AUGU_T1	1	2	1	1	0.55	-0.45	0	0	2	2	0	1800	1800	0
5/6/2024 12:13	45902	AUBU_T1	0	0	0	0	0	0	-0.4	-0.49	1	1	0	600	600	0
5/6/2024 12:14	45902	AUBU_T1	0	0	0	0	0	0	-0.4	-0.49	1	1	0	600	600	0
5/6/2024 12:15	11303	EMMA_T1	0	0	0	0	0	0	-1.64	-1.64	0	0	0	0	0	0
5/6/2024 12:15	41901	REED_T1	6	5	-1	0.15	0.16	0.01	0	0	0	0	0	0	0	0
5/6/2024 12:15	20403	ASHF_T2	4	0	-4	0.33	0	-0.33	0.99	1.34	0	0	0	0	0	0
5/6/2024 12:15	64101	REFR_T1	0	0	0	0	0	0	-0.79	-0.77	0	0	0	0	0	0
5/6/2024 12:15	41902	REED_T1	0	0	0	0	0	0	1.15	1.15	0	0	0	0	0	0
5/6/2024 12:15	20401	ASHF_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/6/2024 12:16	42902	MIDD_T2	8	0	-8	0.2	0	-0.2	-0.45	-0.47	1	1	0	600	600	0
5/6/2024 12:16	44301	BEAV_T2	0	1	1	0	0	0	-0.13	-0.08	2	2	0	1500	1500	0
5/6/2024 12:16	13105	NHAM_T2	0	0	0	0	0	0	-0.8	-0.81	1	1	0	1200	1200	0
5/6/2024 12:16	42903	MIDD_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
5/6/2024 12:16	64701	LITI_T1	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
5/6/2024 12:18	46302	ROHR_T1	148	165	17	0.39	0.42	0.03	0.12	0.17	0	0	0	0	0	0
5/6/2024 12:18	46301	ROHR_T1	290	296	6	0.57	0.59	0.02	0	0	0	0	0	0	0	0
5/6/2024 12:19	51004	NHAR_T1	13	13	0	1.05	1.06	0.01	-0.41	-0.42	0	0	0	0	0	0
5/6/2024 12:19	51002	NHAR_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
5/6/2024 12:21	11301	EMMA_T1	0	0	0	0	0	0	-0.75	-0.81	0	0	0	0	0	0
5/6/2024 12:21	46302	ROHR_T1	148	165	17	0.39	0.42	0.03	0.12	0.17	0	0	0	0	0	0
5/6/2024 12:21	46301	ROHR_T1	290	296	6	0.57	0.59	0.02	0	0	0	0	0	0	0	0
5/6/2024 12:21	24202	PROV_T4	0	0	0	0	0	0	-0.9	-0.8	1	1	0	1200	1200	0
5/6/2024 12:21	60605	NCOL_T2	0	0	0	0	0	0	-0.4	-0.08	0	0	0	0	0	0
5/6/2024 12:22	10805	CHHI_T2	1	2	1	8.2	8.6	0.4	-0.52	-0.43	1	1	0	600	600	0
5/6/2024 12:23	46301	ROHR_T1	290	296	6	0.57	0.59	0.02	0.21	0.19	0	0	0	0	0	0
5/6/2024 12:23	46302	ROHR_T1	148	165	17	0.39	0.42	0.03	0	0	0	0	0	0	0	0
5/6/2024 12:24	45902	AUBU_T1	0	0	0	0	0	0	-0.49	-0.43	1	1	0	600	600	0
5/6/2024 12:24	46301	ROHR_T1	290	296	6	0.57	0.59	0.02	0.19	0.2	0	0	0	0	0	0
5/6/2024 12:24	46302	ROHR_T1	148	165	17	0.39	0.42	0.03	0	0	0	0	0	0	0	0
5/6/2024 12:25	45902	AUBU_T1	0	0	0	0	0	0	-0.49	-0.43	1	1	0	600	600	0
5/6/2024 12:25	67605	WARW_T1	14	16	2	0.56	0.65	0.09	-1.03	-1.06	0	0	0	0	0	0
5/6/2024 12:26	60102	COCA_T1	0	0	0	0	0	0	0.6	0.64	2	2	0	1200	1200	0
5/6/2024 12:26	51109	CARL_T1	0	1	1	0	0	0	-1.08	-1.09	1	1	0	1200	1200	0
5/6/2024 12:26	51102	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/6/2024 12:26	60101	COCA_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
5/6/2024 12:27	54502	ENOL_T2	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
5/6/2024 12:27	54505	ENOL_T2	1	1	0	0.9	0.7	-0.2	-1.37	-1.35	1	1	0	600	600	0
5/6/2024 12:27	60101	COCA_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
5/6/2024 12:27	54501	ENOL_T2	4	1	-3	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
5/6/2024 12:29	45902	AUBU_T1	0	0	0	0	0	0	-0.49	-0.43	1	1	0	600	600	0
5/6/2024 12:30	67605	WARW_T1	16	14	-2	0.65	0.55	-0.1	-1.03	-1.06	0	0	0	0	0	0
5/6/2024 12:30	45902	AUBU_T1	0	0	0	0	0	0	-0.49	-0.43	1	1	0	600	600	0
5/6/2024 12:31	54501	ENOL_T2	1	4	3	0.1	0.25	0.15	0	0	0	0	0	0	0	0
5/6/2024 12:31	54502	ENOL_T2	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
5/6/2024 12:31	54505	ENOL_T2	1	1	0	0.7	1	0.3	-1.37	-1.35	1	1	0	600	600	0
5/6/2024 12:32	40101	HUNT_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
5/6/2024 12:34	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 12:35	54206	PENN_T2	0	0	0	0	0	0	0.15	0.23	0	0	0	0	0	0
5/6/2024 12:37	14404	SSLA_T1	1	1	0	5.5	5.7	0.2	-0.02	-0.04	0	0	0	0	0	0
5/6/2024 12:38	54206	PENN_T2	0	0	0	0	0	0	0.23	0.18	0	0	0	0	0	0
5/6/2024 12:39	15001	BLMO_T1	3	3	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/6/2024 12:40	15001	BLMO_T1	3	3	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/6/2024 12:41	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 12:41	45901	AUBU_T1	0	0	0	0	0	0	1.83	1.71	0	0	0	0	0	0
5/6/2024 12:41	62601	ENGL_T1	0	0	0	0	0	0	-0.14	-0.11	0	0	0	0	0	0
5/6/2024 12:42	63804	HEMP_T1	1	1	0	6.2	6.7	0.5	0	0	0	0	0	0	0	0
5/6/2024 12:42	63801	HEMP_T1	65	3	-62	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
5/6/2024 12:42	63803	HEMP_T1	195	53	-142	0.22	0.14	-0.08	0.4	0.36	0	0	0	0	0	0
5/6/2024 12:49	58401	MORO_T1	0	0	0	0	0	0	-0.85	-0.85	1	1	0	600	600	0
5/6/2024 12:51	58402	MORO_T1	0	0	0	0	0	0	-1.07	-1.06	3	3	0	2400	2400	0
5/6/2024 12:54	20403	ASHF_T2	0	4	4	0	0.65	0.65	2.25	2.26	0	0	0	0	0	0
5/6/2024 12:54	20401	ASHF_T2	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/6/2024 12:54	67401	WAKE_T2	0	0	0	0	0	0	-1.09	-1.04	0	0	0	0	0	0
5/6/2024 12:54	14603	SWHI_T1	6	5	-1	1	0.82	-0.18	-1.04	-1.09	1	1	0	600	600	0
5/6/2024 12:54	14601	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/6/2024 12:54	14602	SWHI_T1	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
5/6/2024 12:56	14203	EALL_T1	0	0	0	0	0	0	1.11	1.16	0	0	0	0	0	0
5/6/2024 12:56	14207	EALL_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/6/2024 13:01	42902	MIDD_T2	0	4	4	0	0.18	0.18	-0.6	-0.3	1	1	0	600	600	0
5/6/2024 13:01	42903	MIDD_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
5/6/2024 13:04	12505	MITR_T2	0	0	0	0	0	0	1.27	1.39	0	0	0	0	0	0
5/6/2024 13:04	12502	MITR_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
5/6/2024 13:04	42903	MIDD_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
5/6/2024 13:04	42902	MIDD_T2	0	4	4	0	0.18	0.18	-0.6	-0.3	1	1	0	600	600	0
5/6/2024 13:06	47401	PENS_T1	2	15	13	0.6	0.47	-0.13	1.11	1.09	0	0	0	0	0	0
5/6/2024 13:06	47402	PENS_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
5/6/2024 13:06	47403	PENS_T1	0	2	2	0	1.15	1.15	0	0	0	0	0	0	0	0
5/6/2024 13:06	42903	MIDD_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
5/6/2024 13:06	42902	MIDD_T2	0	4	4	0	0.18	0.18	-0.6	-0.3	1	1	0	600	600	0
5/6/2024 13:08	44301	BEAV_T2	1	1	0	1	2.3	1.3	0.79	0.9	2	2	0	1500	1500	0
5/6/2024 13:10	13902	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 13:10	13905	SEID_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
5/6/2024 13:11	46002	BERW_T2	0	0	0	0	0	0	-0.59	-0.48	1	1	0	900	900	0
5/6/2024 13:11	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 13:16	50105	HARR_T3	6	6	0	5.58	5.62	0.04	0	0	0	0	0	0	0	0
5/6/2024 13:16	50103	HARR_T3	2	2	0	0.85	0.45	-0.4	-0.79	-0.71	1	1	0	1200	1200	0
5/6/2024 13:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 13:19	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/6/2024 13:19	56501	ROCK_T2	2	2	0	0.2	0.4	0.2	-0.01	-0.01	0	0	0	0	0	0
5/6/2024 13:21	56501	ROCK_T2	2	2	0	0.2	0.4	0.2	-0.02	-0.02	0	0	0	0	0	0
5/6/2024 13:21	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/6/2024 13:22	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/6/2024 13:22	56501	ROCK_T2	2	2	0	0.2	0.4	0.2	-0.01	-0.01	0	0	0	0	0	0
5/6/2024 13:23	56501	ROCK_T2	2	2	0	0.2	0.4	0.2	-0.01	-0.01	0	0	0	0	0	0
5/6/2024 13:23	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/6/2024 13:25	67605	WARW_T1	11	13	2	0.26	0.36	0.1	-1.03	-1.09	0	0	0	0	0	0
5/6/2024 13:30	67605	WARW_T1	12	13	1	0.3	0.36	0.06	-1.03	-1.09	0	0	0	0	0	0
5/6/2024 13:31	64902	MILL_T2	0	0	0	0	0	0	-0.52	-0.54	1	1	0	900	900	0
5/6/2024 13:32	64902	MILL_T2	0	0	0	0	0	0	-0.52	-0.54	1	1	0	900	900	0
5/6/2024 13:35	10801	CHHI_T1	10	72	62	0.43	0.23	-0.2	0	0	1	1	0	600	600	0
5/6/2024 13:39	67603	WARW_T1	0	0	0	0	0	0	-0.08	-0.04	0	0	0	0	0	0
5/6/2024 13:39	67605	WARW_T1	12	13	1	0.3	0.36	0.06	0	0	0	0	0	0	0	0
5/6/2024 13:41	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/6/2024 13:46	40101	HUNT_T2	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
5/6/2024 13:51	10805	CHHI_T2	1	1	0	7.8	8.6	0.8	-2.3	-1.15	2	2	0	1200	1200	0
5/6/2024 13:53	45902	AUBU_T1	0	0	0	0	0	0	-0.75	-0.84	1	1	0	600	600	0
5/6/2024 13:53	10805	CHHI_T2	1	1	0	7.8	8.6	0.8	-1.15	-0.57	1	1	0	600	600	0
5/6/2024 13:54	45902	AUBU_T1	0	0	0	0	0	0	-0.75	-0.84	1	1	0	600	600	0
5/6/2024 13:58	45902	AUBU_T1	0	0	0	0	0	0	-0.75	-0.84	1	1	0	600	600	0
5/6/2024 13:59	45902	AUBU_T1	0	0	0	0	0	0	-0.75	-0.84	1	1	0	600	600	0
5/6/2024 14:00	46803	HEPB_T2	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
5/6/2024 14:00	46801	HEPB_T2	2	2	0	0.15	0.4	0.25	0.62	0.68	0	0	0	0	0	0
5/6/2024 14:03	43202	MVIL_T2	118	128	10	1.09	0.91	-0.18	-0.59	-0.59	0	0	0	0	0	0
5/6/2024 14:03	43201	MVIL_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
5/6/2024 14:06	43202	MVIL_T2	118	128	10	1.09	0.91	-0.18	-0.59	-0.59	0	0	0	0	0	0
5/6/2024 14:06	43201	MVIL_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
5/6/2024 14:08	29402	BELT_T1	5	7	2	2.16	1.77	-0.39	0	0	0	0	0	0	0	0
5/6/2024 14:08	29401	BELT_T1	26	37	11	0.18	0.21	0.03	0	0	1	1	0	900	900	0
5/6/2024 14:09	44301	BEAV_T2	4	12	8	0.45	0.45	0	0.85	0.29	2	2	0	1500	1500	0
5/6/2024 14:10	67605	WARW_T1	9	8	-1	0.21	0.19	-0.02	-0.99	-1.03	0	0	0	0	0	0
5/6/2024 14:11	44301	BEAV_T2	4	12	8	0.45	0.45	0	0.85	0.29	2	1	-1	1500	600	-900
5/6/2024 14:12	29402	BELT_T1	5	7	2	2.16	1.77	-0.39	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/6/2024 14:12	44301	BEAV_T2	4	12	8	0.45	0.45	0	0.85	0.29	2	1	-1	1500	600	-900
5/6/2024 14:12	29401	BELT_T1	26	37	11	0.18	0.21	0.03	0	0	0	0	0	0	0	0
5/6/2024 14:15	28403	HART_T2	0	0	0	0	0	0	-0.97	-1	1	1	0	900	900	0
5/6/2024 14:16	55001	NEWP_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/6/2024 14:16	55002	NEWP_T1	9	6	-3	0.87	0.92	0.05	-0.22	-0.25	0	0	0	0	0	0
5/6/2024 14:16	64904	MILL_T1	0	0	0	0	0	0	0.5	0.58	0	0	0	0	0	0
5/6/2024 14:16	23202	HIRU_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
5/6/2024 14:17	55001	NEWP_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/6/2024 14:17	65502	MOJO_T2	0	0	0	0	0	0	0.03	-0.06	0	0	0	0	0	0
5/6/2024 14:17	55002	NEWP_T1	9	6	-3	0.87	0.92	0.05	-0.22	-0.25	0	0	0	0	0	0
5/6/2024 14:18	55002	NEWP_T1	9	6	-3	0.87	0.92	0.05	-0.22	-0.25	0	0	0	0	0	0
5/6/2024 14:18	55001	NEWP_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/6/2024 14:19	55001	NEWP_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/6/2024 14:19	55002	NEWP_T1	9	6	-3	0.87	0.92	0.05	-0.22	-0.25	0	0	0	0	0	0
5/6/2024 14:24	14801	TREI_T2	2	3	1	0.5	0.5	0	0.34	0.31	0	0	0	0	0	0
5/6/2024 14:25	43103	SMIL_T2	5	10	5	0.32	0.27	-0.05	0	0	0	0	0	0	0	0
5/6/2024 14:25	43101	SMIL_T2	0	1	1	0	0.3	0.3	-0.79	-0.83	0	0	0	0	0	0
5/6/2024 14:25	67605	WARW_T1	8	8	0	0.19	0.19	0	-1.03	-1.01	0	0	0	0	0	0
5/6/2024 14:25	43108	SMIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/6/2024 14:26	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
5/6/2024 14:29	41801	GOCI_T2	5	44	39	0.22	0.19	-0.03	0	0	0	0	0	0	0	0
5/6/2024 14:30	54502	ENOL_T2	1	1	0	1.2	1.6	0.4	0	0	0	0	0	0	0	0
5/6/2024 14:30	54505	ENOL_T2	1	1	0	0.7	1.2	0.5	-1.36	-1.37	1	1	0	600	600	0
5/6/2024 14:30	54501	ENOL_T2	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
5/6/2024 14:30	67605	WARW_T1	6	8	2	0.22	0.21	-0.01	-1.03	-1.01	0	0	0	0	0	0
5/6/2024 14:38	44601	SALE_T2	0	0	0	0	0	0	1.09	0.53	1	1	0	600	600	0
5/6/2024 14:39	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 14:39	40302	TAMA_T3	0	0	0	0	0	0	0.02	0.05	0	0	0	0	0	0
5/6/2024 14:40	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/6/2024 14:41	67703	WERN_T2	0	0	0	0	0	0	-0.19	-0.21	1	1	0	900	900	0
5/6/2024 14:43	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 14:43	21206	ECAR_T2	1	1	0	7.6	7.9	0.3	1.48	1.47	0	0	0	0	0	0
5/6/2024 14:44	21206	ECAR_T2	1	1	0	7.6	7.9	0.3	1.48	1.47	0	0	0	0	0	0
5/6/2024 14:44	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 14:53	14802	TREI_T2	0	4	4	0	0.28	0.28	0.39	0.4	0	0	0	0	0	0
5/6/2024 14:53	14801	TREI_T2	2	3	1	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
5/6/2024 15:00	64802	MONE_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
5/6/2024 15:00	64801	MONE_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
5/6/2024 15:03	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
5/6/2024 15:04	40101	HUNT_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
5/6/2024 15:07	24201	PROV_T3	1	1	0	7.6	7.1	-0.5	-1.37	-1.37	1	1	0	1200	1200	0
5/6/2024 15:07	24204	PROV_T3	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
5/6/2024 15:10	27503	WEIS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/6/2024 15:10	27502	WEIS_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
5/6/2024 15:15	59001	MIFF_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/6/2024 15:15	59002	MIFF_T1	6	6	0	0.35	0.58	0.23	0	0	0	0	0	0	0	0
5/6/2024 15:15	59003	MIFF_T1	0	1	1	0	0.2	0.2	-0.16	-0.4	0	0	0	0	0	0
5/6/2024 15:19	66502	SMAN_T2	0	0	0	0	0	0	0.18	0.07	0	0	0	0	0	0
5/6/2024 15:21	49803	UNIV_T1	3	2	-1	0.47	0.3	-0.17	-0.97	-0.92	0	0	0	0	0	0
5/6/2024 15:21	49804	UNIV_T1	1	2	1	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
5/6/2024 15:22	66502	SMAN_T2	0	0	0	0	0	0	0.18	0.07	0	0	0	0	0	0
5/6/2024 15:30	63402	HONY_T2	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
5/6/2024 15:30	63403	HONY_T2	0	0	0	0	0	0	0.25	0.03	1	1	0	600	600	0
5/6/2024 15:34	66502	SMAN_T2	0	0	0	0	0	0	0.07	-0.02	0	0	0	0	0	0
5/6/2024 15:35	59003	MIFF_T1	1	1	0	0.2	0.2	0	-0.2	-0.04	0	0	0	0	0	0
5/6/2024 15:35	59002	MIFF_T1	6	5	-1	0.58	0.46	-0.12	0	0	0	0	0	0	0	0
5/6/2024 15:35	59001	MIFF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/6/2024 15:37	20401	ASHF_T2	3	7	4	0.27	0.31	0.04	0	0	0	0	0	0	0	0
5/6/2024 15:37	20403	ASHF_T2	54	82	28	1.02	1	-0.02	0.26	0.08	0	0	0	0	0	0
5/6/2024 15:38	20401	ASHF_T2	3	7	4	0.27	0.31	0.04	0	0	0	0	0	0	0	0
5/6/2024 15:38	20403	ASHF_T2	54	82	28	1.02	1	-0.02	0.08	0.04	0	0	0	0	0	0
5/6/2024 15:38	13704	SCHN_T2	0	1	1	0	0.2	0.2	-0.27	-0.27	0	0	0	0	0	0
5/6/2024 15:44	23002	SAJO_T1	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
5/6/2024 15:44	23001	SAJO_T1	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
5/6/2024 15:44	12002	HATF_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/6/2024 15:44	12006	HATF_T1	0	0	0	0	0	0	0.31	0.29	1	1	0	1200	1200	0
5/6/2024 15:45	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
5/6/2024 15:49	47402	PENS_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/6/2024 15:49	47403	PENS_T1	1	2	1	0.5	1.25	0.75	0	0	0	0	0	0	0	0
5/6/2024 15:49	47401	PENS_T1	1	1	0	0.5	0.2	-0.3	1.26	1.21	0	0	0	0	0	0
5/6/2024 15:52	47403	PENS_T1	1	2	1	0.5	1.25	0.75	0	0	0	0	0	0	0	0
5/6/2024 15:52	47402	PENS_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/6/2024 15:52	47401	PENS_T1	1	1	0	0.5	0.2	-0.3	1.26	1.21	0	0	0	0	0	0
5/6/2024 15:53	47403	PENS_T1	1	2	1	0.5	1.25	0.75	0	0	0	0	0	0	0	0
5/6/2024 15:53	47402	PENS_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/6/2024 15:53	26001	WDAM_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
5/6/2024 15:53	47401	PENS_T1	1	1	0	0.5	0.2	-0.3	1.26	1.21	0	0	0	0	0	0
5/6/2024 15:53	42201	SHEN_T2	2	1	-1	0.85	0.8	-0.05	0.08	0.07	1	1	0	600	600	0
5/6/2024 15:53	26002	WDAM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 15:59	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 16:01	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/6/2024 16:02	52004	LING_T2	0	1	1	0	0.3	0.3	0.25	0.12	0	0	0	0	0	0
5/6/2024 16:02	52002	LING_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/6/2024 16:02	54505	ENOL_T2	1	1	0	1.3	1.2	-0.1	-1.36	-1.35	1	1	0	600	600	0
5/6/2024 16:02	54502	ENOL_T2	1	1	0	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
5/6/2024 16:02	52006	LING_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
5/6/2024 16:02	54501	ENOL_T2	4	4	0	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
5/6/2024 16:10	45501	DERR_T2	1	2	1	0.6	0.5	-0.1	0.49	0.35	2	2	0	1800	1800	0
5/6/2024 16:11	45501	DERR_T2	1	2	1	0.6	0.5	-0.1	0.97	0.71	4	4	0	3600	3600	0
5/6/2024 16:12	45501	DERR_T2	1	2	1	0.6	0.5	-0.1	0.49	0.35	2	2	0	1800	1800	0
5/6/2024 16:14	54502	ENOL_T2	1	1	0	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
5/6/2024 16:14	45501	DERR_T2	1	2	1	0.6	0.5	-0.1	0.49	0.35	2	2	0	1800	1800	0
5/6/2024 16:14	54501	ENOL_T2	4	4	0	0.45	0.38	-0.07	-0.56	-0.56	1	1	0	600	600	0
5/6/2024 16:14	54505	ENOL_T2	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
5/6/2024 16:16	40902	JESH_T1	0	0	0	0	0	0	-0.49	-0.5	1	1	0	600	600	0
5/6/2024 16:17	40902	JESH_T1	0	0	0	0	0	0	-0.49	-0.5	1	1	0	600	600	0
5/6/2024 16:21	67502	WEWI_T2	0	0	0	0	0	0	-0.39	-0.35	0	0	0	0	0	0
5/6/2024 16:23	40902	JESH_T1	0	0	0	0	0	0	-0.49	-0.5	1	1	0	600	600	0
5/6/2024 16:24	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/6/2024 16:33	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.48	0	0	0	0	0	0
5/6/2024 16:38	45901	AUBU_T1	0	0	0	0	0	0	1.65	1.65	0	0	0	0	0	0
5/6/2024 16:38	45902	AUBU_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/6/2024 16:39	42201	SHEN_T2	1	1	0	0.6	0.5	-0.1	0.07	0.05	1	1	0	600	600	0
5/6/2024 16:41	45902	AUBU_T1	0	1	1	0	0.6	0.6	-0.89	-0.92	1	1	0	600	600	0
5/6/2024 16:42	45902	AUBU_T1	0	1	1	0	0.6	0.6	-0.89	-0.92	1	1	0	600	600	0
5/6/2024 16:45	20603	GRWO_T2	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
5/6/2024 16:46	45902	AUBU_T1	0	1	1	0	0.6	0.6	-0.89	-0.92	1	1	0	600	600	0
5/6/2024 16:47	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/6/2024 16:47	45902	AUBU_T1	0	1	1	0	0.6	0.6	-0.89	-0.92	1	1	0	600	600	0
5/6/2024 16:54	51108	CARL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/6/2024 16:54	51102	CARL_T1	5	9	4	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
5/6/2024 16:54	51109	CARL_T1	0	0	0	0	0	0	-1.02	-1.01	1	1	0	1200	1200	0
5/6/2024 16:57	10702	CATA_T2	1	1	0	0.2	0.3	0.1	-0.82	-0.81	0	0	0	0	0	0
5/6/2024 16:57	10705	CATA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/6/2024 16:58	17102	WTRE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 16:58	17101	WTRE_T2	329	402	73	0.27	0.47	0.2	0	0	0	0	0	0	0	0
5/6/2024 17:00	50506	MECH_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/6/2024 17:00	50502	MECH_T1	1	1	0	2	1.9	-0.1	0	0	0	0	0	0	0	0
5/6/2024 17:00	50501	MECH_T1	4	4	0	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
5/6/2024 17:02	50506	MECH_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/6/2024 17:02	50502	MECH_T1	1	1	0	2	1.9	-0.1	0	0	0	0	0	0	0	0
5/6/2024 17:02	50501	MECH_T1	4	4	0	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
5/6/2024 17:04	50506	MECH_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/6/2024 17:04	50502	MECH_T1	1	1	0	2	1.9	-0.1	0	0	0	0	0	0	0	0
5/6/2024 17:04	50501	MECH_T1	4	4	0	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
5/6/2024 17:05	47403	PENS_T1	1	1	0	2.2	1.8	-0.4	0	0	0	0	0	0	0	0
5/6/2024 17:05	47401	PENS_T1	0	0	0	0	0	0	1.12	1.16	0	0	0	0	0	0
5/6/2024 17:11	64802	MONE_T2	0	0	0	0	0	0	0.13	0.08	0	0	0	0	0	0
5/6/2024 17:11	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/6/2024 17:11	64801	MONE_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/6/2024 17:15	40902	JESH_T1	0	0	0	0	0	0	-0.59	-0.55	1	1	0	600	600	0
5/6/2024 17:15	28704	HAML_T2	1	1	0	0.6	0.8	0.2	-0.01	-0.01	0	0	0	0	0	0
5/6/2024 17:15	28703	HAML_T2	3	3	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
5/6/2024 17:15	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
5/6/2024 17:20	40902	JESH_T1	0	0	0	0	0	0	-0.59	-0.55	1	1	0	600	600	0
5/6/2024 17:25	67605	WARW_T1	2	6	4	0.15	0.18	0.03	-0.99	-0.97	0	0	0	0	0	0
5/6/2024 17:27	51102	CARL_T1	9	49	40	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
5/6/2024 17:27	51108	CARL_T1	1	2	1	0.3	0.25	-0.05	-0.45	-0.46	0	0	0	0	0	0
5/6/2024 17:28	51102	CARL_T1	9	49	40	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
5/6/2024 17:28	51108	CARL_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
5/6/2024 17:28	51101	CARL_T1	0	0	0	0	0	0	-1.24	-1.27	1	1	0	600	600	0
5/6/2024 17:30	67605	WARW_T1	6	2	-4	0.18	0.1	-0.08	-0.99	-0.97	0	0	0	0	0	0
5/6/2024 17:40	67605	WARW_T1	6	2	-4	0.18	0.1	-0.08	-0.97	-1	0	0	0	0	0	0
5/6/2024 17:44	24102	EHAZ_T1	0	0	0	0	0	0	-0.23	-0.32	0	0	0	0	0	0
5/6/2024 17:44	24105	EHAZ_T1	4	4	0	6.35	6.23	-0.12	0	0	0	0	0	0	0	0
5/6/2024 17:45	67605	WARW_T1	2	6	4	0.1	0.18	0.08	-0.97	-1	0	0	0	0	0	0
5/6/2024 17:51	59101	WALK_T2	0	0	0	0	0	0	1.6	1.51	0	0	0	0	0	0
5/6/2024 17:51	59102	WALK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/6/2024 17:53	10602	BLGI_T2	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
5/6/2024 17:54	59102	WALK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/6/2024 17:54	59101	WALK_T2	0	0	0	0	0	0	1.51	1.52	0	0	0	0	0	0
5/6/2024 17:56	67605	WARW_T1	2	6	4	0.1	0.18	0.08	-1	-0.97	0	0	0	0	0	0
5/6/2024 18:00	67605	WARW_T1	2	6	4	0.1	0.18	0.08	-1	-0.97	0	0	0	0	0	0
5/6/2024 18:04	65702	RVIL_T2	0	0	0	0	0	0	-0.89	-0.93	1	1	0	600	600	0
5/6/2024 18:05	25503	MADI_T1	197	255	58	0.28	0.35	0.07	-1.01	-0.98	0	0	0	0	0	0
5/6/2024 18:05	25502	MADI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/6/2024 18:06	49802	UNIV_T2	1	1	0	0.2	0.3	0.1	-0.29	-0.21	0	0	0	0	0	0
5/6/2024 18:07	65702	RVIL_T2	0	0	0	0	0	0	-0.89	-0.93	1	1	0	600	600	0
5/6/2024 18:08	60701	BREC_T1	0	1	1	0	0.1	0.1	-0.49	-0.47	1	1	0	600	600	0
5/6/2024 18:09	60701	BREC_T1	0	1	1	0	0.1	0.1	-1.96	-1.88	4	4	0	2400	2400	0
5/6/2024 18:10	60701	BREC_T1	0	1	1	0	0.1	0.1	-0.98	-0.94	2	2	0	1200	1200	0
5/6/2024 18:12	60701	BREC_T1	0	1	1	0	0.1	0.1	-0.49	-0.47	1	1	0	600	600	0
5/6/2024 18:14	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/6/2024 18:14	54501	ENOL_T2	0	0	0	0	0	0	-0.5	-0.5	1	1	0	600	600	0
5/6/2024 18:14	54502	ENOL_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
5/6/2024 18:15	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 18:15	41801	GOCI_T2	40	17	-23	0.16	0.12	-0.04	0	0	0	0	0	0	0	0
5/6/2024 18:15	21206	ECAR_T2	1	3	2	7.4	2.6	-4.8	1.45	1.34	0	0	0	0	0	0
5/6/2024 18:17	60701	BREC_T1	0	1	1	0	0.1	0.1	-0.49	-0.47	1	1	0	600	600	0
5/6/2024 18:23	25603	ARRO_T1	33	33	0	0.16	0.2	0.04	-0.16	-0.17	0	0	0	0	0	0
5/6/2024 18:23	64904	MILL_T1	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
5/6/2024 18:25	59101	WALK_T2	0	0	0	0	0	0	1.58	1.61	0	0	0	0	0	0
5/6/2024 18:33	65702	RVIL_T2	0	0	0	0	0	0	-0.93	-0.94	1	1	0	600	600	0
5/6/2024 18:36	13704	SOHN_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
5/6/2024 18:36	66504	SMAN_T2	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
5/6/2024 18:36	65702	RVIL_T2	0	0	0	0	0	0	-0.93	-0.94	1	1	0	600	600	0
5/6/2024 18:44	50201	HARR_T3	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/6/2024 18:44	50107	HARR_T3	0	0	0	0	0	0	0.55	0.59	0	0	0	0	0	0
5/6/2024 18:44	50103	HARR_T3	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
5/6/2024 18:44	50105	HARR_T3	6	6	0	5.78	5.77	-0.01	0	0	0	0	0	0	0	0
5/6/2024 18:46	46506	LOHA_T1	0	0	0	0	0	0	-0.4	-0.36	0	0	0	0	0	0
5/6/2024 18:46	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 18:57	62102	ELAN_T1	0	0	0	0	0	0	0.67	0.92	0	0	0	0	0	0
5/6/2024 19:00	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 19:00	62106	ELAN_T1	0	0	0	0	0	0	0.17	0.06	0	0	0	0	0	0
5/6/2024 19:07	13905	SEID_T1	0	0	0	0	0	0	0.32	0.36	0	0	0	0	0	0
5/6/2024 19:15	46504	LOHA_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/6/2024 19:15	46501	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 19:15	46502	LOHA_T1	0	0	0	0	0	0	0.19	0.09	0	0	0	0	0	0
5/6/2024 19:19	56501	ROCK_T2	2	3	1	0.7	0.57	-0.13	-0.01	-0.01	0	0	0	0	0	0
5/6/2024 19:23	67401	WAKE_T2	0	2	2	0	0.1	0.1	-1.12	-1.13	0	0	0	0	0	0
5/6/2024 19:27	62102	ELAN_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
5/6/2024 19:27	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/6/2024 20:20	67805	WLAN_T1	22	62	40	0.11	0.14	0.03	0	0	0	0	0	0	0	0
5/6/2024 20:20	67804	WLAN_T1	0	0	0	0	0	0	-1.08	-1.07	0	0	0	0	0	0
5/6/2024 20:20	47001	HUGH_T2	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
5/6/2024 20:24	58003	WCAR_T1	1	1	0	1.7	1.8	0.1	0.68	0.68	0	0	0	0	0	0
5/6/2024 20:24	58001	WCAR_T1	4	3	-1	0.8	0.8	0	0	0	0	0	0	0	0	0
5/6/2024 20:26	67804	WLAN_T1	0	0	0	0	0	0	-1.07	-1.08	0	0	0	0	0	0
5/6/2024 20:26	67805	WLAN_T1	22	62	40	0.11	0.14	0.03	0	0	0	0	0	0	0	0
5/6/2024 20:47	41902	REED_T1	0	0	0	0	0	0	1.18	1.19	0	0	0	0	0	0
5/6/2024 20:47	41901	REED_T1	2	5	3	0.25	0.16	-0.09	0	0	0	0	0	0	0	0
5/6/2024 20:53	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
5/6/2024 20:53	54502	ENOL_T2	1	1	0	1.5	1.5	0	-1.09	-1.15	1	1	0	600	600	0
5/6/2024 21:01	54601	SUMM_T2	10	13	3	0.51	0.68	0.17	0	0	0	0	0	0	0	0
5/6/2024 21:01	54603	SUMM_T2	0	2	2	0	0.15	0.15	-0.66	-0.62	1	1	0	900	900	0
5/6/2024 21:06	65001	NEFF_T2	4	97	93	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/6/2024 21:06	65003	NEFF_T2	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
5/6/2024 21:06	65004	NEFF_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
5/6/2024 21:06	57203	ROSS_T1	0	0	0	0	0	0	-0.26	-0.13	0	0	0	0	0	0
5/6/2024 21:07	65001	NEFF_T2	4	97	93	0.1	0.15	0.05	-0.84	-0.74	1	1	0	1200	1200	0
5/6/2024 21:07	65003	NEFF_T2	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
5/6/2024 21:08	65004	NEFF_T2	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
5/6/2024 21:08	65001	NEFF_T2	4	97	93	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/6/2024 21:08	57203	ROSS_T1	0	0	0	0	0	0	-0.13	-0.28	0	0	0	0	0	0
5/6/2024 21:08	65003	NEFF_T2	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
5/6/2024 21:11	23001	SAIO_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
5/6/2024 21:19	63304	GREE_T1	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
5/6/2024 21:26	41903	REED_T1	0	0	0	0	0	0	-0.26	-0.26	1	1	0	1200	1200	0
5/6/2024 21:26	41901	REED_T1	4	9	5	0.18	0.36	0.18	0	0	0	0	0	0	0	0
5/6/2024 21:30	42503	ALTA_T2	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
5/6/2024 21:30	67805	WLAN_T1	239	237	-2	0.17	0.18	0.01	0	0	0	0	0	0	0	0
5/6/2024 21:30	67803	WLAN_T1	0	0	0	0	0	0	-0.87	-0.89	0	0	0	0	0	0
5/6/2024 21:31	40801	EXCH_T2	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
5/6/2024 21:31	42501	ALTA_T2	0	0	0	0	0	0	0.14	0.13	1	1	0	600	600	0
5/6/2024 21:35	67803	WLAN_T1	0	0	0	0	0	0	-0.87	-0.89	0	0	0	0	0	0
5/6/2024 21:35	67805	WLAN_T1	239	237	-2	0.17	0.18	0.01	0	0	0	0	0	0	0	0
5/6/2024 21:46	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/6/2024 21:50	16402	MOPO_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
5/6/2024 21:50	57205	ROSS_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
5/6/2024 21:50	13105	NHAM_T2	0	0	0	0	0	0	-0.73	-0.73	1	1	0	1200	1200	0
5/6/2024 21:52	50105	HARR_T3	6	6	0	5.73	5.55	-0.18	0	0	0	0	0	0	0	0
5/6/2024 21:52	50202	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/6/2024 21:52	50106	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 21:52	42802	SELI_T1	1	1	0	0.1	1.2	1.1	-0.91	-0.93	1	1	0	900	900	0
5/6/2024 21:52	50102	HARR_T3	3	11	8	0.13	0.2	0.07	0	0	0	0	0	0	0	0
5/6/2024 21:52	50103	HARR_T3	2	2	0	0.5	1	0.5	-0.7	-0.72	1	1	0	1200	1200	0
5/6/2024 21:52	50201	HARR_T3	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/6/2024 21:53	23202	HIRU_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
5/6/2024 21:54	54203	PENN_T1	18	18	0	1.46	1.59	0.13	0	0	0	0	0	0	0	0
5/6/2024 21:54	54201	PENN_T1	128	191	63	0.31	0.32	0.01	-0.91	-0.91	0	0	0	0	0	0
5/6/2024 21:55	67802	WLAN_T1	0	0	0	0	0	0	-0.25	-0.3	0	0	0	0	0	0
5/6/2024 21:55	10602	BLGL_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
5/6/2024 21:55	67805	WLAN_T1	84	281	197	0.14	0.21	0.07	0	0	0	0	0	0	0	0
5/6/2024 21:55	42802	SELI_T1	1	1	0	0.1	1.2	1.1	-0.93	-0.97	1	1	0	900	900	0
5/6/2024 21:56	67805	WLAN_T1	84	281	197	0.14	0.21	0.07	0	0	0	0	0	0	0	0
5/6/2024 21:56	67804	WLAN_T1	0	0	0	0	0	0	-1.1	-1.11	0	0	0	0	0	0
5/6/2024 21:57	17002	RIRO_T2	3	4	1	0.1	0.15	0.05	0.32	0.29	0	0	0	0	0	0
5/6/2024 21:58	50102	HARR_T3	3	11	8	0.13	0.2	0.07	0	0	0	0	0	0	0	0
5/6/2024 21:58	50105	HARR_T3	6	6	0	5.73	5.55	-0.18	0	0	0	0	0	0	0	0
5/6/2024 21:58	50202	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/6/2024 21:58	50103	HARR_T3	2	2	0	0.5	1	0.5	0	0	0	0	0	0	0	0
5/6/2024 21:58	28704	HAML_T2	1	1	0	1	1.3	0.3	-0.01	-0.01	0	0	0	0	0	0
5/6/2024 21:58	50201	HARR_T3	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/6/2024 21:58	50106	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 21:58	20403	ASHF_T2	42	44	2	1.24	1.63	0.39	0	0	0	0	0	0	0	0
5/6/2024 21:58	50107	HARR_T3	0	0	0	0	0	0	0.55	0.49	0	0	0	0	0	0
5/6/2024 21:58	28703	HAML_T2	2	3	1	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
5/6/2024 21:58	20401	ASHF_T2	3	5	2	0.53	0.6	0.07	-0.29	-0.31	0	0	0	0	0	0
5/6/2024 21:59	64904	MILL_T1	0	1	1	0	0	0	0.55	0.54	0	0	0	0	0	0
5/6/2024 21:59	45902	AUBU_T1	1	12	11	0	0.18	0.18	-1.22	-0.52	1	0	-1	600	0	-600
5/6/2024 21:59	65401	MARI_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
5/6/2024 21:59	67804	WLAN_T1	0	0	0	0	0	0	-1.1	-1.11	0	0	0	0	0	0
5/6/2024 21:59	67805	WLAN_T1	84	281	197	0.14	0.21	0.07	0	0	0	0	0	0	0	0
5/6/2024 22:00	46301	ROHR_T1	235	306	71	0.45	0.71	0.26	0.17	0.17	0	0	0	0	0	0
5/6/2024 22:00	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 22:00	13905	SEID_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
5/6/2024 22:00	40301	TAMA_T3	1	2	1	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 22:00	46302	ROHR_T1	130	185	55	0.3	0.57	0.27	0	0	0	0	0	0	0	0
5/6/2024 22:00	51102	CARL_T1	103	88	-15	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
5/6/2024 22:00	16302	ALPA_T2	0	0	0	0	0	0	0.68	0.64	0	0	0	0	0	0
5/6/2024 22:00	29401	BELT_T1	33	0	-33	0.16	0	-0.16	0	0	1	1	0	900	900	0
5/6/2024 22:00	40302	TAMA_T3	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
5/6/2024 22:00	51108	CARL_T1	0	0	0	0	0	0	-0.63	-0.59	0	0	0	0	0	0
5/6/2024 22:00	41802	GOCI_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:00	21204	ECAR_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/6/2024 22:00	41801	GOCI_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:00	51004	NHAR_T1	10	7	-3	1.09	1.14	0.05	-0.42	-0.45	0	0	0	0	0	0
5/6/2024 22:00	29402	BELT_T1	1	1	0	8.4	8	-0.4	0	0	0	0	0	0	0	0
5/6/2024 22:00	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.1	0	0	0	0	0	0
5/6/2024 22:00	21206	ECAR_T2	1	1	0	8.3	8.4	0.1	1.19	1.21	0	0	0	0	0	0
5/6/2024 22:00	51002	NHAR_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
5/6/2024 22:00	13302	ORVI_T2	0	0	0	0	0	0	1.42	1.36	0	0	0	0	0	0
5/6/2024 22:01	54502	ENOL_T2	1	1	0	1.6	0.7	-0.9	-1.14	-1.15	1	0	-1	600	0	-600
5/6/2024 22:01	57006	WHHI_T2	38	38	0	0.16	0.14	-0.02	0.73	0.74	0	0	0	0	0	0
5/6/2024 22:01	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/6/2024 22:01	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/6/2024 22:01	64902	MILL_T2	0	0	0	0	0	0	-0.61	-0.68	1	1	0	900	900	0
5/6/2024 22:01	54505	ENOL_T2	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
5/6/2024 22:01	20403	ASHF_T2	43	45	2	1.63	1.23	-0.4	0.19	0.16	0	0	0	0	0	0
5/6/2024 22:01	60101	COCA_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
5/6/2024 22:01	57003	WHHI_T2	5	5	0	0.26	0.42	0.16	0	0	0	0	0	0	0	0
5/6/2024 22:01	51101	CARL_T1	0	0	0	0	0	0	-1.35	-1.46	1	1	0	600	600	0
5/6/2024 22:01	49803	UNIV_T1	0	2	2	0	0.1	0.1	-1.09	-1.14	0	0	0	0	0	0
5/6/2024 22:01	65401	MARI_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
5/6/2024 22:01	57205	ROSS_T1	0	0	0	0	0	0	0.12	0.07	0	0	0	0	0	0
5/6/2024 22:01	46302	ROHR_T1	130	185	55	0.3	0.57	0.27	0	0	0	0	0	0	0	0
5/6/2024 22:01	67502	WEWI_T2	294	281	-13	0.24	0.26	0.02	-1.51	-1.53	1	1	0	900	900	0
5/6/2024 22:01	14802	TREI_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
5/6/2024 22:01	63402	HONY_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
5/6/2024 22:01	60701	BREC_T1	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
5/6/2024 22:01	46301	ROHR_T1	235	306	71	0.45	0.71	0.26	0.17	0.17	0	0	0	0	0	0
5/6/2024 22:01	20401	ASHF_T2	4	3	-1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
5/6/2024 22:01	41801	GOCI_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:01	54501	ENOL_T2	4	0	-4	0.23	0	-0.23	-0.52	-0.52	1	1	0	600	600	0
5/6/2024 22:01	51102	CARL_T1	103	88	-15	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
5/6/2024 22:01	10702	CATA_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
5/6/2024 22:01	41802	GOCI_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:01	63403	HONY_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
5/6/2024 22:02	49802	UNIV_T2	0	0	0	0	0	0	-0.49	-0.53	0	0	0	0	0	0
5/6/2024 22:02	67703	WERN_T2	0	0	0	0	0	0	-0.54	-0.63	2	2	0	1800	1800	0
5/6/2024 22:02	29401	BELT_T1	33	0	-33	0.16	0	-0.16	0	0	0	0	0	0	0	0
5/6/2024 22:02	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/6/2024 22:02	67804	WLAN_T1	0	0	0	0	0	0	-1.1	-1.11	0	0	0	0	0	0
5/6/2024 22:02	16902	MECK_T1	0	4	4	0	0.13	0.13	0.05	0.04	0	0	0	0	0	0
5/6/2024 22:02	47401	PENS_T1	0	0	0	0	0	0	1.97	1.89	0	0	0	0	0	0
5/6/2024 22:02	42902	MIDD_T2	0	0	0	0	0	0	-1.16	-1.18	1	1	0	600	600	0
5/6/2024 22:02	13303	ORVI_T1	0	0	0	0	0	0	-0.43	-0.48	0	0	0	0	0	0
5/6/2024 22:02	29402	BELT_T1	1	1	0	8.4	8	-0.4	0	0	0	0	0	0	0	0
5/6/2024 22:02	63801	HEMP_T1	98	29	-69	0.2	0.12	-0.08	0	0	0	0	0	0	0	0
5/6/2024 22:02	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
5/6/2024 22:02	67001	STHI_T2	194	0	-194	0.12	0	-0.12	0.07	0.07	0	0	0	0	0	0
5/6/2024 22:02	63804	HEMP_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
5/6/2024 22:02	63803	HEMP_T1	128	95	-33	0.26	0.22	-0.04	0.7	0.62	0	0	0	0	0	0
5/6/2024 22:02	67002	STHI_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:02	67605	WARW_T1	18	14	-4	0.61	0.48	-0.13	-1.17	-1.22	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/6/2024 22:02	60605	NCOL_T2	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
5/6/2024 22:02	13704	SCHN_T2	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
5/6/2024 22:02	45902	AUBU_T1	12	0	-12	0.18	0	-0.18	-1.22	-0.52	1	0	-1	600	0	-600
5/6/2024 22:02	67805	WLAN_T1	237	279	42	0.18	0.2	0.02	0	0	0	0	0	0	0	0
5/6/2024 22:02	65503	MOJO_T2	0	0	0	0	0	0	-0.25	-1.25	0	1	1	0	900	900
5/6/2024 22:02	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/6/2024 22:03	54201	PENN_T1	191	35	-156	0.32	0.55	0.23	0	0	0	0	0	0	0	0
5/6/2024 22:03	24202	PROV_T4	0	0	0	0	0	0	-0.9	-0.97	1	1	0	1200	1200	0
5/6/2024 22:03	54505	ENOL_T2	1	1	0	1.1	0.8	-0.3	-1.3	-1.31	1	1	0	600	600	0
5/6/2024 22:03	59101	WALK_T2	0	0	0	0	0	0	2.02	2.26	0	0	0	0	0	0
5/6/2024 22:03	11303	EMMA_T1	0	0	0	0	0	0	-1.58	-1.62	0	0	0	0	0	0
5/6/2024 22:03	16302	ALPA_T2	0	0	0	0	0	0	0.68	0.64	0	0	0	0	0	0
5/6/2024 22:03	45902	AUBU_T1	12	0	-12	0.18	0	-0.18	-1.22	-0.52	1	0	-1	600	0	-600
5/6/2024 22:03	64101	REFR_T1	0	0	0	0	0	0	-0.35	-0.41	0	0	0	0	0	0
5/6/2024 22:03	43202	MVIL_T2	145	185	40	0.58	1.06	0.48	-0.74	-0.72	0	0	0	0	0	0
5/6/2024 22:03	43201	MVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/6/2024 22:03	67603	WARW_T1	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
5/6/2024 22:03	42701	AUGU_T1	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/6/2024 22:03	14603	SWHI_T1	4	1	-3	1.1	2.9	1.8	-1.07	-1.01	1	1	0	600	600	0
5/6/2024 22:03	54501	ENOL_T2	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
5/6/2024 22:03	67605	WARW_T1	18	14	-4	0.61	0.48	-0.13	0	0	0	0	0	0	0	0
5/6/2024 22:03	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:03	54502	ENOL_T2	1	1	0	1.6	0.7	-0.9	0	0	0	0	0	0	0	0
5/6/2024 22:03	54203	PENN_T1	18	18	0	1.59	1.38	-0.21	0.76	0.76	0	0	0	0	0	0
5/6/2024 22:04	46302	ROHR_T1	130	185	55	0.3	0.57	0.27	0.14	0.14	0	0	0	0	0	0
5/6/2024 22:04	67804	WLAN_T1	0	0	0	0	0	0	-1.1	-1.11	0	0	0	0	0	0
5/6/2024 22:04	54203	PENN_T1	18	18	0	1.59	1.38	-0.21	0.76	0.76	0	0	0	0	0	0
5/6/2024 22:04	29401	BELT_T1	33	0	-33	0.16	0	-0.16	0	0	1	1	0	900	900	0
5/6/2024 22:04	42201	SHEN_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/6/2024 22:04	45902	AUBU_T1	12	0	-12	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/6/2024 22:04	52002	LING_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
5/6/2024 22:04	54202	PENN_T2	1	0	-1	0.1	0	-0.1	-0.25	0.38	0	0	0	0	0	0
5/6/2024 22:04	67703	WERN_T2	0	0	0	0	0	0	-0.27	-0.32	1	1	0	900	900	0
5/6/2024 22:04	54201	PENN_T1	191	35	-156	0.32	0.55	0.23	0	0	0	0	0	0	0	0
5/6/2024 22:04	54206	PENN_T2	30	0	-30	0.11	0	-0.11	0	0	0	0	0	0	0	0
5/6/2024 22:04	45501	DERR_T2	1	1	0	0.5	0.8	0.3	-0.36	-0.4	2	2	0	1800	1800	0
5/6/2024 22:04	52006	LING_T2	2	3	1	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
5/6/2024 22:04	40101	HUNT_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
5/6/2024 22:04	60101	COCA_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
5/6/2024 22:04	23203	HIRU_T2	0	0	0	0	0	0	-0.03	-0.12	0	0	0	0	0	0
5/6/2024 22:04	54505	ENOL_T2	1	1	0	1.1	0.8	-0.3	-1.3	-1.31	1	1	0	600	600	0
5/6/2024 22:04	52004	LING_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
5/6/2024 22:04	54502	ENOL_T2	1	1	0	1.6	0.7	-0.9	0	0	0	0	0	0	0	0
5/6/2024 22:04	65702	RVIL_T2	1	0	-1	0.1	0	-0.1	-0.59	-0.64	0	0	0	0	0	0
5/6/2024 22:04	10801	CHIH_T1	0	0	0	0	0	0	0	1	1	0	600	600	0	0
5/6/2024 22:04	14404	SSLA_T1	1	1	0	6	5.4	-0.6	0	-0.01	0	0	0	0	0	0
5/6/2024 22:04	54204	PENN_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
5/6/2024 22:04	29402	BELT_T1	1	1	0	8.4	8	-0.4	0	0	0	0	0	0	0	0
5/6/2024 22:04	57403	SPAN_T1	109	26	-83	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:04	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 22:04	46301	ROHR_T1	235	306	71	0.45	0.71	0.26	0	0	0	0	0	0	0	0
5/6/2024 22:04	47401	PENS_T1	0	0	0	0	0	0	0.99	0.94	0	0	0	0	0	0
5/6/2024 22:04	67805	WLAN_T1	237	279	42	0.18	0.2	0.02	0	0	0	0	0	0	0	0
5/6/2024 22:04	54501	ENOL_T2	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
5/6/2024 22:04	57401	SPAN_T1	2	2	0	1.1	0.45	-0.65	-1.11	-0.88	1	1	0	600	600	0
5/6/2024 22:04	45901	AUBU_T1	0	0	0	0	0	0	1.63	1.73	0	0	0	0	0	0
5/6/2024 22:05	55002	NEWP_T1	6	5	-1	1.25	0.86	-0.39	-0.52	-0.5	0	0	0	0	0	0
5/6/2024 22:05	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/6/2024 22:05	67001	STHI_T2	194	0	-194	0.12	0	-0.12	0.07	0.07	0	0	0	0	0	0
5/6/2024 22:05	15001	BLMO_T1	2	6	4	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/6/2024 22:05	67805	WLAN_T1	237	279	42	0.18	0.2	0.02	0	0	0	0	0	0	0	0
5/6/2024 22:05	14203	EALL_T1	0	0	0	0	0	0	0.92	0.98	0	0	0	0	0	0
5/6/2024 22:05	54502	ENOL_T2	1	1	0	1.6	0.7	-0.9	0	0	0	0	0	0	0	0
5/6/2024 22:05	10805	CHIH_T2	1	1	0	8.1	8.3	0.2	-0.74	-0.58	0	0	0	0	0	0
5/6/2024 22:05	64902	MILL_T2	0	0	0	0	0	0	-0.61	-0.68	1	1	0	900	900	0
5/6/2024 22:05	67703	WERN_T2	0	0	0	0	0	0	-0.27	-0.32	1	1	0	900	900	0
5/6/2024 22:05	56501	ROCK_T2	2	0	-2	0.95	0	-0.95	-0.01	-0.01	0	0	0	0	0	0
5/6/2024 22:05	67505	WEWI_T1	0	0	0	0	0	0	-0.15	-0.16	1	1	0	900	900	0
5/6/2024 22:05	66503	SMAN_T2	0	0	0	0	0	0	0.38	0.34	0	0	0	0	0	0
5/6/2024 22:05	57006	WHHI_T2	38	38	0	0.16	0.14	-0.02	0.73	0.74	0	0	0	0	0	0
5/6/2024 22:05	67002	STHI_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:05	47401	PENS_T1	0	0	0	0	0	0	0.99	0.94	0	0	0	0	0	0
5/6/2024 22:05	23001	SAUO_T1	0	1	1	0	8.8	8.8	0.1	0.04	0	0	0	0	0	0
5/6/2024 22:05	66504	SMAN_T2	0	0	0	0	0	0	-0.44	-0.54	0	0	0	0	0	0
5/6/2024 22:05	44601	SALE_T2	1	1	0	0.8	0.7	-0.1	-0.01	0.01	0	0	0	0	0	0
5/6/2024 22:05	57003	WHHI_T2	5	5	0	0.26	0.42	0.16	0	0	0	0	0	0	0	0
5/6/2024 22:05	54505	ENOL_T2	1	1	0	1.1	0.8	-0.3	-1.3	-1.31	1	1	0	600	600	0
5/6/2024 22:05	20401	ASHF_T2	4	3	-1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
5/6/2024 22:05	59002	MIFF_T1	3	0	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
5/6/2024 22:05	57203	ROSS_T1	0	0	0	0	0	0	-0.26	-0.31	0	0	0	0	0	0
5/6/2024 22:05	59003	MIFF_T1	1	0	-1	0.5	0	-0.5	1.3	1.16	0	0	0	0	0	0
5/6/2024 22:05	20403	ASHF_T2	43	45	2	1.63	1.23	-0.4	0.19	0.16	0	0	0	0	0	0
5/6/2024 22:05	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/6/2024 22:05	60701	BREC_T1	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
5/6/2024 22:05	54501	ENOL_T2	4	0	-4	0.23	0	-0.23	-0.52	-0.52	1	1	0	600	600	0
5/6/2024 22:05	66505	SMAN_T2	3	0	-3	0.63	0	-0.63	0	0	0	0	0	0	0	0
5/6/2024 22:05	67801	WLAN_T1	0	0	0	0	0	0	0.98	0.96	0	0	0	0	0	0
5/6/2024 22:06	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:06	50202	HARR_T3	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
5/6/2024 22:06	12807	MICK_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
5/6/2024 22:06	66505	SMAN_T2	3	0	-3	0.63	0	-0.63	0	0	0	0	0	0	0	0
5/6/2024 22:06	20403	ASHF_T2	43	45	2	1.63	1.23	-0.4	0.19	0.16	0	0	0	0	0	0
5/6/2024 22:06	54202	PENN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:06	16302	ALPA_T2	0	0	0	0	0	0	1.35	1.29	0	0	0	0	0	0
5/6/2024 22:06	60502	NMAN_T2	0	0	0	0	0	0	-0.39	-0.46	0	0	0	0	0	0
5/6/2024 22:06	45902	AUBU_T1	12	0	-12	0.18	0	-0.18	-1.22	-0.52	1	0	-1	600	0	-600
5/6/2024 22:06	21204	ECAR_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/6/2024 22:06	12802	MICK_T1	10	0	-10	0.16	0	-0.16	0	0	0	0	0	0	0	0
5/6/2024 22:06	63803	HEMP_T1	128	95	-33	0.26	0.22	-0.04	0.7	0.62	0	0	0	0	0	0
5/6/2024 22:06	12505	MITR_T2	0	0	0	0	0	0	0.86	0.8	0	0	0	0	0	0
5/6/2024 22:06	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.15	0	0	0	0	0	0
5/6/2024 22:06	60701	BREC_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
5/6/2024 22:06	43102	SMIL_T2	4	7	3	0.33	0.56	0.23	0	0	0	0	0	0	0	0
5/6/2024 22:06	50502	MECH_T1	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
5/6/2024 22:06	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 22:06	67805	WLAN_T1	237	279	42	0.18	0.2	0.02	0	0	0	0	0	0	0	0
5/6/2024 22:06	57401	SPAN_T1	2	2	0	1.1	0.45	-0.65	-1.11	-0.88	1	1	0	600	600	0
5/6/2024 22:06	63804	HEMP_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
5/6/2024 22:06	10805	CHIH_T2	1	1	0	8.1	8.3	0.2	-0.74	-0.58	0	0	0	0	0	0
5/6/2024 22:06	56501	ROCK_T2	2	0	-2	0.95	0	-0.95	-0.02	-0.02	0	0	0	0	0	0
5/6/2024 22:06	12002	HATF_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/6/2024 22:06	67803	WLAN_T1	0	0	0	0	0	0	-0.91	-0.9	0	0	0	0	0	0
5/6/2024 22:06	62102	ELAN_T1	0	0	0	0	0	0	0.68	0.6	0	0	0	0	0	0
5/6/2024 22:06	45501	DERR_T2	1	1	0	0.5	0.8	0.3	-0.36	-0.4	2	2	0	1800	1800	0
5/6/2024 22:06	25503	MADI_T1	403	407	4	0.76	0.73	-0.03	-1.02	-1.02	0	0	0	0	0	0
5/6/2024 22:06	50106	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 22:06	65503	MOJO_T2	0	0	0	0	0	0	-0.25	-1.25	0	1	1	0	900	900
5/6/2024 22:06	25501	MADI_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/6/2024 22:06	50102	HARR_T3	11	2	-9	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:06	65702	RVIL_T2	1	0	-1	0.1	0	-0.1	-1.17	-1.28	0	0	0	0	0	0
5/6/2024 22:06	46206	DANV_T2	0	0	0	0	0	0	2.25	2.36	1	1	0	1200	1200	0
5/6/2024 22:06	50506	MECH_T1	0	0	0	0	0	0	-0.01	-0.27	0	0	0	0	0	0
5/6/2024 22:06	62103	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/6/2024 22:06	67401	WAKE_T2	0	0	0	0	0	0	-1.08	-1.08	0	0	0	0	0	0
5/6/2024 22:06	59101	WALK_T2	0	0	0	0	0	0	1.01	1.13	0	0	0	0	0	0
5/6/2024 22:06	20401	ASHF_T2	4	3	-1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
5/6/2024 22:06	50501	MECH_T1	3	3	0	0.27	0.33	0.06	0	0	0	0	0	0	0	0
5/6/2024 22:06	12801	MICK_T1	0	0	0	0	0	0	-0.13	-0.17	1	1	0	600	600	0
5/6/2024 22:06	43103	SMIL_T2	16	22	6	0.64	0.57	-0.07	0	0	0	0	0	0	0	0
5/6/2024 22:06	15001	BLMO_T1	2	6	4	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/6/2024 22:06	57403	SPAN_T1	109	26	-83	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:06	50103	HARR_T3	2	2	0	1	0.6	-0.4	-0.72	-0.75	1	1	0	1200	1200	0
5/6/2024 22:06	60501	NMAN_T2	8	3	-5	1.76	4.1	2.34	0	0	0	0	0	0	0	0
5/6/2024 22:06	67505	WEWI_T1	0	0	0	0	0	0	-0.15	-0.16	1	1	0	900	900	0
5/6/2024 22:06	16301	ALPA_T1	4	103	99	0.25	0.17	-0.08	-0.44	-0.42	0	0	0	0	0	0
5/6/2024 22:06	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:06	67502	WEWI_T2	294	281	-13	0.24	0.26	0.02	-1.51	-1.53	1	1	0	900	900	0
5/6/2024 22:06	62105	ELAN_T1	19	0	-19	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:06	50105	HARR_T3	6	6	0	5.55	5.52	-0.03	0	0	0	0	0	0	0	0
5/6/2024 22:06	12502	MITR_T2	1	1	0	6.7	6.4	-0.3	0	0	0	0	0	0	0	0
5/6/2024 22:06	62106	ELAN_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:06	21206	ECAR_T2	1	1	0	8.3	8.4	0.1	1.19	1.21	0	0	0	0	0	0
5/6/2024 22:06	12803	MICK_T1	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
5/6/2024 22:06	54204	PENN_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
5/6/2024 22:06	50201	HARR_T3	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/6/2024 22:06	43108	SMIL_T2	0	0	0	0	0	0	0.32	0.27	0	0	0	0	0	0
5/6/2024 22:06	42701	AUGU_T1	0	0	0	0	0	0	0	2	2	0	1800	1800	0	0
5/6/2024 22:06	63801	HEMP_T1	98	29	-69	0.2	0.12	-0.08	0	0	0	0	0	0	0	0
5/6/2024 22:06	54206	PENN_T2	30	0	-30	0.11	0	-0.11	0	0	0	0	0	0	0	0
5/6/2024 22:06	12006	HATF_T1	0	0	0	0	0	0	-0.24	-0.29	1	1	0	1200	1200	0
5/6/2024 22:07	58001	WCAR_T1	4	4	0	1.63	1.3	-0.33	0	0	0	0	0	0	0	0
5/6/2024 22:07	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
5/6/2024 22:07	43103	SMIL_T2	16	22	6	0.64	0.57	-0.07	0	0	0	0	0	0	0	0
5/6/2024 22:07	45501	DERR_T2	1	1	0	0.5	0.8	0.3	-0.36	-0.4	2	2	0	1800	1800	0
5/6/2024 22:07	67703	WERN_T2	0	0	0	0	0	0	-0.27	-0.32	1	1	0	900	900	0
5/6/2024 22:07	57401	SPAN_T1	2	2	0	1.1	0.45	-0.65	-1.11	-0.88	1	1	0	600	600	0
5/6/2024 22:07	24105	EHAZ_T1	4	4	0	6	5.85	-0.15	0	0	0	0	0	0	0	0
5/6/2024 22:07	65901	SMIR_T2	1	1	0	9.4	8.9	-0.5	-1.14	-1.17	1	1	0	900	900	0
5/6/2024 22:07	24201	PROV_T3	1	1	0	7.4	7	-0.4	-0.15	-0.16	0	0	0	0	0	0
5/6/2024 22:07	24102	EHAZ_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
5/6/2024 22:07	42701	AUGU_T1	0	0	0	0	0	0	0	2	2	0	1800	1800	0	0
5/6/2024 22:07	63801	HEMP_T1	98	29	-69	0.2	0.12	-0.08	0	0	0	0	0	0	0	0
5/6/2024 22:07	54206	PENN_T2	30	0	-30	0.11	0	-0.11	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/6/2024 22:07	43101	SMIL_T2	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
5/6/2024 22:07	62601	ENGL_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
5/6/2024 22:07	54202	PENN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:07	66504	SMAN_T2	0	0	0	0	0	0	-0.44	-0.54	0	0	0	0	0	0
5/6/2024 22:07	20603	GRWO_T2	0	2	2	0	0.1	0.1	0.32	0.3	0	0	0	0	0	0
5/6/2024 22:07	58003	WCAR_T1	26	1	-25	0.22	1.7	1.48	0.64	0.62	0	0	0	0	0	0
5/6/2024 22:07	14404	SSLA_T1	1	1	0	6	5.4	-0.6	0	-0.01	0	0	0	0	0	0
5/6/2024 22:07	65702	RVIL_T2	1	0	-1	0.1	0	-0.1	-0.59	-0.64	0	0	0	0	0	0
5/6/2024 22:07	63803	HEMP_T1	128	95	-33	0.26	0.22	-0.04	0.7	0.62	0	0	0	0	0	0
5/6/2024 22:07	14801	TREI_T2	0	0	0	0	0	0	0.43	0.33	0	0	0	0	0	0
5/6/2024 22:07	67803	WLAN_T1	0	0	0	0	0	0	-1.82	-1.8	0	0	0	0	0	0
5/6/2024 22:07	67805	WLAN_T1	237	279	42	0.18	0.2	0.02	0	0	0	0	0	0	0	0
5/6/2024 22:07	24204	PROV_T3	1	1	0	6	6.2	0.2	0	0	0	0	0	0	0	0
5/6/2024 22:07	62607	ENGL_T1	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/6/2024 22:07	66505	SMAN_T2	3	0	-3	0.63	0	-0.63	0	0	0	0	0	0	0	0
5/6/2024 22:07	63804	HEMP_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
5/6/2024 22:07	43102	SMIL_T2	4	7	3	0.33	0.56	0.23	0	0	0	0	0	0	0	0
5/6/2024 22:07	54204	PENN_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
5/6/2024 22:07	20601	GRWO_T2	0	43	43	0	0.15	0.15	0	0	0	0	0	0	0	0
5/6/2024 22:07	57403	SPAN_T1	109	26	-83	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:07	10801	CHHI_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/6/2024 22:08	17101	WTRE_T2	431	440	9	0.66	0.77	0.11	0	0	0	0	0	0	0	0
5/6/2024 22:08	40903	JESH_T1	0	9	9	0	0.11	0.11	0	0	0	0	0	0	0	0
5/6/2024 22:08	53902	HALI_T2	1	1	0	6	5.5	-0.5	0	0	0	0	0	0	0	0
5/6/2024 22:08	40901	JESH_T1	9	38	29	0.11	0.15	0.04	0	0	0	0	0	0	0	0
5/6/2024 22:08	53903	HALI_T2	21	2	-19	0.3	1.35	1.05	0	0	0	0	0	0	0	0
5/6/2024 22:08	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/6/2024 22:08	40902	JESH_T1	4	126	122	0.13	0.12	-0.01	-0.87	-0.88	0	0	0	0	0	0
5/6/2024 22:08	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
5/6/2024 22:08	61704	ELIZ_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/6/2024 22:08	55002	NEWP_T1	6	5	-1	1.25	0.86	-0.39	-0.25	-0.28	0	0	0	0	0	0
5/6/2024 22:08	64701	LITI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/6/2024 22:08	60102	COCA_T1	0	0	0	0	0	0	0.56	0.78	2	2	0	1200	1200	0
5/6/2024 22:08	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/6/2024 22:08	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 22:08	28403	HART_T2	0	0	0	0	0	0	-0.92	-0.95	1	1	0	900	900	0
5/6/2024 22:08	42902	MIDD_T2	0	0	0	0	0	0	-1.16	-1.18	1	1	0	600	600	0
5/6/2024 22:08	17102	WTRE_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:08	45501	DERR_T2	1	1	0	0.5	0.8	0.3	-0.36	-0.4	2	2	0	1800	1800	0
5/6/2024 22:08	61702	ELIZ_T2	0	0	0	0	0	0	-0.99	-0.98	1	1	0	300	300	0
5/6/2024 22:08	42201	SHEN_T2	0	0	0	0	0	0	0	-0.02	1	1	0	600	600	0
5/6/2024 22:08	53901	HALI_T2	2	1	-1	0.8	0.7	-0.1	-1.43	-1.47	0	0	0	0	0	0
5/6/2024 22:09	26001	WDAM_T1	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
5/6/2024 22:09	67502	WEWI_T2	294	281	-13	0.24	0.26	0.02	-1.53	-0.44	1	0	-1	900	0	-900
5/6/2024 22:09	50501	MECH_T1	3	3	0	0.27	0.33	0.06	0	0	0	0	0	0	0	0
5/6/2024 22:09	54502	ENOL_T2	1	1	0	1.6	0.7	-0.9	-1.15	-1.14	1	0	-1	600	0	-600
5/6/2024 22:09	25603	ARRO_T1	35	46	11	0.29	0.39	0.1	-0.18	-0.17	0	0	0	0	0	0
5/6/2024 22:09	59301	MCAL_T1	59	75	16	0.28	0.48	0.2	0	0	0	0	0	0	0	0
5/6/2024 22:09	54505	ENOL_T2	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
5/6/2024 22:09	44301	BEAV_T2	0	0	0	0	0	0	-0.42	-0.25	1	1	0	600	600	0
5/6/2024 22:09	54504	ENOL_T2	0	0	0	0	0	0	-1.01	-1.07	1	1	0	600	600	0
5/6/2024 22:09	54501	ENOL_T2	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
5/6/2024 22:09	26002	WDAM_T1	5	3	-2	0.4	0.43	0.03	0	0	0	0	0	0	0	0
5/6/2024 22:09	67803	WLAN_T1	0	0	0	0	0	0	-1.8	-1.84	0	0	0	0	0	0
5/6/2024 22:09	60902	DONG_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
5/6/2024 22:09	50502	MECH_T1	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
5/6/2024 22:09	67805	WLAN_T1	237	279	42	0.18	0.2	0.02	0	0	0	0	0	0	0	0
5/6/2024 22:09	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
5/6/2024 22:09	50506	MECH_T1	0	0	0	0	0	0	-0.54	-0.58	0	0	0	0	0	0
5/6/2024 22:09	59302	MCAL_T1	1	1	0	0.8	1	0.2	0.41	0.37	0	0	0	0	0	0
5/6/2024 22:10	59101	WALK_T2	0	0	0	0	0	0	1.13	1.29	0	0	0	0	0	0
5/6/2024 22:10	54202	PENN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:10	67805	WLAN_T1	237	279	42	0.18	0.2	0.02	-1.47	-1.51	0	0	0	0	0	0
5/6/2024 22:10	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.18	1	1	0	600	600	0
5/6/2024 22:10	62103	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/6/2024 22:10	65502	MOJO_T2	0	0	0	0	0	0	-0.86	-0.96	0	0	0	0	0	0
5/6/2024 22:10	14603	SWHI_T1	4	1	-3	1.1	2.9	1.8	-1.01	-1.07	1	1	0	600	600	0
5/6/2024 22:10	57403	SPAN_T1	109	26	-83	0.33	0.23	-0.1	-0.03	0.03	0	0	0	0	0	0
5/6/2024 22:10	62102	ELAN_T1	0	0	0	0	0	0	0.6	0.86	0	0	0	0	0	0
5/6/2024 22:10	44301	BEAV_T2	0	0	0	0	0	0	-0.42	-0.25	1	1	0	600	600	0
5/6/2024 22:10	60701	BREC_T1	0	0	0	0	0	0	0.01	-0.11	0	0	0	0	0	0
5/6/2024 22:10	54204	PENN_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
5/6/2024 22:10	54206	PENN_T2	30	0	-30	0.11	0	-0.11	0	0	0	0	0	0	0	0
5/6/2024 22:10	67702	WEIN_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
5/6/2024 22:10	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:10	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:10	67002	STHI_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:10	11301	EMMA_T1	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
5/6/2024 22:10	62105	ELAN_T1	19	0	-19	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:10	55002	NEWP_T1	6	5	-1	1.25	0.86	-0.39	-0.25	-0.28	0	0	0	0	0	0
5/6/2024 22:10	62106	ELAN_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:10	57401	SPAN_T1	2	2	0	1.1	0.45	-0.65	0	0	0	0	0	0	0	0
5/6/2024 22:10	67001	STHI_T2	194	0	-194	0.12	0	-0.12	0.07	0.05	0	0	0	0	0	0
5/6/2024 22:11	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 22:11	43802	SWIL_T1	0	0	0	0	0	0	-0.13	-0.13	1	1	0	600	600	0
5/6/2024 22:11	20401	ASHF_T2	4	3	-1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
5/6/2024 22:11	46506	LOHA_T1	1	1	0	0.6	1	0.4	-0.43	-0.45	0	0	0	0	0	0
5/6/2024 22:11	42201	SHEN_T2	0	0	0	0	0	0	0	-0.02	1	1	0	600	600	0
5/6/2024 22:11	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/6/2024 22:11	67703	WERN_T2	0	0	0	0	0	0	-0.32	-0.32	1	1	0	900	900	0
5/6/2024 22:11	63804	HEMP_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
5/6/2024 22:11	11301	EMMA_T1	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
5/6/2024 22:11	26002	WDAM_T1	5	3	-2	0.4	0.43	0.03	0	0	0	0	0	0	0	0
5/6/2024 22:11	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/6/2024 22:11	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
5/6/2024 22:11	63803	HEMP_T1	128	95	-33	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
5/6/2024 22:11	26001	WDAM_T1	0	0	0	0	0	0	-0.62	-0.66	0	0	0	0	0	0
5/6/2024 22:11	20403	ASHF_T2	43	45	2	1.63	1.23	-0.4	0.16	0.16	0	0	0	0	0	0
5/6/2024 22:11	65401	MARI_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
5/6/2024 22:11	46504	LOHA_T1	38	49	11	0.3	0.41	0.11	0	0	0	0	0	0	0	0
5/6/2024 22:11	49803	UNIV_T1	0	2	2	0	0.1	0.1	-1.14	-1.25	0	0	0	0	0	0
5/6/2024 22:11	13704	SCHN_T2	0	0	0	0	0	0	0.35	-0.38	0	0	0	0	0	0
5/6/2024 22:11	41502	FAIR_T2	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
5/6/2024 22:11	43801	SWIL_T1	23	40	17	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
5/6/2024 22:11	44301	BEAV_T2	0	0	0	0	0	0	-0.42	-0.25	1	1	0	600	600	0
5/6/2024 22:11	57401	SPAN_T1	2	2	0	1.1	0.45	-0.65	0	0	0	0	0	0	0	0
5/6/2024 22:11	63801	HEMP_T1	98	29	-69	0.2	0.12	-0.08	0.2	0.19	0	0	0	0	0	0
5/6/2024 22:11	57403	SPAN_T1	109	26	-83	0.33	0.23	-0.1	-0.03	0.03	0	0	0	0	0	0
5/6/2024 22:12	43103	SMIL_T2	16	22	6	0.64	0.57	-0.07	-0.95	-0.96	0	0	0	0	0	0
5/6/2024 22:12	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.62	0	0	0	0	0	0
5/6/2024 22:12	44301	BEAV_T2	0	0	0	0	0	0	-0.83	-0.5	2	2	0	1200	1200	0
5/6/2024 22:12	66505	SMAN_T2	3	0	-3	0.63	0	-0.63	0	0	0	0	0	0	0	0
5/6/2024 22:12	43102	SMIL_T2	4	7	3	0.33	0.56	0.23	0	0	0	0	0	0	0	0
5/6/2024 22:12	15001	BLMO_T1	2	6	4	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/6/2024 22:12	13704	SCHN_T2	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
5/6/2024 22:12	47401	PENS_T1	0	0	0	0	0	0	0.94	0.9	0	0	0	0	0	0
5/6/2024 22:12	45602	WOOL_T1	2	3	1	0.3	0.5	0.2	0.89	0.85	0	0	0	0	0	0
5/6/2024 22:12	56501	ROCK_T2	2	0	-2	0.95	0	-0.95	-0.01	-0.01	0	0	0	0	0	0
5/6/2024 22:12	64101	REFR_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
5/6/2024 22:13	41901	REED_T1	9	0	-9	0.24	0	-0.24	0	0	0	0	0	0	0	0
5/6/2024 22:13	46504	LOHA_T1	38	49	11	0.3	0.41	0.11	0	0	0	0	0	0	0	0
5/6/2024 22:13	46801	HEPB_T2	2	2	0	0.6	0.7	0.1	0.56	0.56	0	0	0	0	0	0
5/6/2024 22:13	41902	REED_T1	0	0	0	0	0	0	1.12	1.05	0	0	0	0	0	0
5/6/2024 22:13	46506	LOHA_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
5/6/2024 22:13	46502	LOHA_T1	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
5/6/2024 22:13	58402	MORO_T1	0	0	0	0	0	0	-0.26	-0.28	2	2	0	1500	1500	0
5/6/2024 22:14	15001	BLMO_T1	2	6	4	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/6/2024 22:15	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
5/6/2024 22:15	47401	PENS_T1	0	0	0	0	0	0	0.94	0.9	0	0	0	0	0	0
5/6/2024 22:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2024 22:17	44301	BEAV_T2	0	0	0	0	0	0	-0.83	-0.5	2	2	0	1200	1200	0
5/6/2024 22:17	42903	MIDD_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/6/2024 22:17	42902	MIDD_T2	0	0	0	0	0	0	-3.55	-3.55	3	3	0	1800	1800	0
5/6/2024 22:18	42902	MIDD_T2	0	0	0	0	0	0	-1.18	-1.18	1	1	0	600	600	0
5/6/2024 22:18	42903	MIDD_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/6/2024 22:21	46302	ROHR_T1	181	182	1	0.56	0.51	-0.05	0.14	0.13	0	0	0	0	0	0
5/6/2024 22:21	46301	ROHR_T1	299	312	13	0.7	0.67	-0.03	0	0	0	0	0	0	0	0
5/6/2024 22:22	49804	UNIV_T1	1	0	-1	0.1	0	-0.1	0.45	0.44	0	0	0	0	0	0
5/6/2024 22:22	43202	MVIL_T2	179	185	6	0.92	1.06	0.14	-0.72	-0.73	0	0	0	0	0	0
5/6/2024 22:22	43201	MVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/6/2024 22:22	49803	UNIV_T1	1	7	6	0.1	0.1	0	0	0	0	0	0	0	0	0
5/6/2024 22:25	45501	DERR_T2	1	1	0	0.8	0.6	-0.2	-0.37	-0.35	2	2	0	1800	1800	0
5/6/2024 22:26	62106	ELAN_T1	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
5/6/2024 22:34	57203	ROSS_T1	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
5/7/2024 4:52	13704	SCHN_T2	0	0	0	0	0	0	-0.49	-0.47	0	0	0	0	0	0
5/7/2024 6:40	15001	BLMO_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/7/2024 6:40	49804	UNIV_T1	0	1	1	0	0.6	0.6	0.44	0.39	0	0	0	0	0	0
5/7/2024 7:05	15202	SFAR_T1	0	0	0	0	0	0	-0.49	-0.44	1	1	0	1200	1200	0
5/7/2024 7:06	67501	WEWI_T1	27	23	-4	0.13	0.14	0.01	-1.31	-0.6	1	0	-1	600	0	-600
5/7/2024 7:12	61503	EPET_T1	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
5/7/2024 7:13	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 7:13	40502	CRES_T2	6	0	-6	0.12	0	-0.12	-0.16	-0.13	0	0	0	0	0	0
5/7/2024 7:19	15203	SFAR_T2	0	0	0	0	0	0	-1.4	-1.37	0	0	0	0	0	0
5/7/2024 7:22	67703	WERN_T2	0	0	0	0	0	0	-0.3	-0.3	1	1	0	900	900	0
5/7/2024 7:28	63305	GREE_T1	0	0	0	0	0	0	-0.87	-0.8	0	0	0	0	0	0
5/7/2024 7:31	63305	GREE_T1	0	0	0	0	0	0	-0.87	-0.8	0	0	0	0	0	0
5/7/2024 7:35	55002	NEWP_T1	6	6	0	0.78	1.1	0.32	0	0	0	0	0	0	0	0
5/7/2024 7:35	55001	NEWP_T1	0	0	0	0	0	0	0.02	0.1	0	0	0	0	0	0
5/7/2024 7:37	67703	WERN_T2	0	0	0	0	0	0	-0.59	-0.58	2	2	0	1800	1800	0
5/7/2024 7:40	67703	WERN_T2	0	0	0	0	0	0	-0.29	-0.28	1	1	0	900	900	0
5/7/2024 7:44	46504	LOHA_T1	2	43	41	0.65	0.38	-0.27	0	0	0	0	0	0	0	0
5/7/2024 7:44	46506	LOHA_T1	1	1	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
5/7/2024 7:44	46501	LOHA_T1	0	0	0	0	0	0	-0.14	-0.16	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/7/2024 7:45	46801	HEPB_T2	2	3	1	0.65	0.75	0.1	0.52	0.52	0	0	0	0	0	0
5/7/2024 7:49	10801	CHHI_T1	0	0	0	0	0	0	-0.83	-0.82	1	1	0	900	900	0
5/7/2024 7:54	67602	WARW_T2	0	0	0	0	0	0	0.44	1.05	2	1	-1	1500	300	-1200
5/7/2024 7:54	20403	ASHF_T2	0	4	4	0	0.17	0.17	1.24	1.21	0	0	0	0	0	0
5/7/2024 7:54	20401	ASHF_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
5/7/2024 7:55	67602	WARW_T2	0	0	0	0	0	0	0.44	1.05	2	1	-1	1500	300	-1200
5/7/2024 7:55	15001	BLMO_T1	4	3	-1	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
5/7/2024 7:56	45501	DERR_T2	1	2	1	0.2	0.25	0.05	0.62	0.64	2	2	0	1800	1800	0
5/7/2024 7:56	15203	SFAR_T2	0	0	0	0	0	0	-1.4	-1.38	0	0	0	0	0	0
5/7/2024 7:56	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 7:57	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 8:02	55002	NEWP_T1	6	7	1	1	0.96	-0.04	-0.26	-0.22	0	0	0	0	0	0
5/7/2024 8:03	55002	NEWP_T1	6	7	1	1	0.96	-0.04	-0.52	-0.44	0	0	0	0	0	0
5/7/2024 8:08	46001	BERW_T1	0	0	0	0	0	0	0.83	0.88	0	0	0	0	0	0
5/7/2024 8:09	29402	BELT_T1	3	4	1	3.2	3.43	0.23	0	0	0	0	0	0	0	0
5/7/2024 8:09	29401	BELT_T1	65	85	20	0.22	0.27	0.05	0	0	1	1	0	900	900	0
5/7/2024 8:10	46001	BERW_T1	0	0	0	0	0	0	0.88	0.86	0	0	0	0	0	0
5/7/2024 8:10	67605	WARW_T1	16	14	-2	0.73	0.58	-0.15	-1.08	-1.05	0	0	0	0	0	0
5/7/2024 8:10	44802	EDAN_T2	0	0	0	0	0	0	-2.21	-2.16	1	1	0	1200	1200	0
5/7/2024 8:12	29402	BELT_T1	3	4	1	3.2	3.43	0.23	0	0	0	0	0	0	0	0
5/7/2024 8:12	44802	EDAN_T2	0	0	0	0	0	0	-2.21	-2.16	1	1	0	1200	1200	0
5/7/2024 8:12	29401	BELT_T1	65	85	20	0.22	0.27	0.05	0	0	1	1	0	900	900	0
5/7/2024 8:13	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 8:13	50103	HARR_T3	2	2	0	0.8	0.95	0.15	-0.76	-0.84	1	1	0	1200	1200	0
5/7/2024 8:13	21901	HUMB_T1	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
5/7/2024 8:13	50105	HARR_T3	6	6	0	6.03	5.52	-0.51	0	0	0	0	0	0	0	0
5/7/2024 8:13	50201	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 8:13	44802	EDAN_T2	0	0	0	0	0	0	-2.21	-2.16	1	1	0	1200	1200	0
5/7/2024 8:13	62605	ENGL_T1	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
5/7/2024 8:14	67605	WARW_T1	16	14	-2	0.73	0.58	-0.15	-1.08	-1.05	0	0	0	0	0	0
5/7/2024 8:14	62602	ENGL_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
5/7/2024 8:14	44802	EDAN_T2	0	0	0	0	0	0	-2.21	-2.16	1	1	0	1200	1200	0
5/7/2024 8:14	62605	ENGL_T1	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
5/7/2024 8:14	62607	ENGL_T1	1	1	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0
5/7/2024 8:15	52004	LING_T2	0	0	0	0	0	0	0.36	0.32	0	0	0	0	0	0
5/7/2024 8:15	52006	LING_T2	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
5/7/2024 8:15	52002	LING_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/7/2024 8:18	52002	LING_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/7/2024 8:18	52006	LING_T2	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
5/7/2024 8:18	52004	LING_T2	0	0	0	0	0	0	0.36	0.32	0	0	0	0	0	0
5/7/2024 8:19	55003	NEWP_T2	13	13	0	0.6	0.75	0.15	-0.03	-0.05	0	0	0	0	0	0
5/7/2024 8:19	46301	ROHR_T1	3	38	35	0.1	0.17	0.07	0	0	0	0	0	0	0	0
5/7/2024 8:19	46302	ROHR_T1	3	5	2	2.5	2.08	-0.42	0.08	0.14	0	0	0	0	0	0
5/7/2024 8:20	46301	ROHR_T1	3	38	35	0.1	0.17	0.07	0	0	0	0	0	0	0	0
5/7/2024 8:20	46302	ROHR_T1	3	5	2	2.5	2.08	-0.42	0.08	0.14	0	0	0	0	0	0
5/7/2024 8:20	56501	ROCK_T2	2	2	0	0.6	0.9	0.3	-0.02	-0.02	0	0	0	0	0	0
5/7/2024 8:21	56501	ROCK_T2	2	2	0	0.6	0.9	0.3	-0.03	-0.03	0	0	0	0	0	0
5/7/2024 8:21	59202	THOM_T1	52	72	20	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
5/7/2024 8:21	59201	THOM_T1	8	9	1	0.16	0.24	0.08	0	0	0	0	0	0	0	0
5/7/2024 8:22	56501	ROCK_T2	2	2	0	0.6	0.9	0.3	-0.01	-0.01	0	0	0	0	0	0
5/7/2024 8:22	46302	ROHR_T1	3	5	2	2.5	2.08	-0.42	0	0	0	0	0	0	0	0
5/7/2024 8:22	46301	ROHR_T1	3	38	35	0.1	0.17	0.07	0.17	0.17	0	0	0	0	0	0
5/7/2024 8:23	67602	WARW_T2	0	0	0	0	0	0	1.05	1.01	1	1	0	300	300	0
5/7/2024 8:24	67605	WARW_T1	14	12	-2	0.58	0.35	-0.23	-1.05	-1.04	0	0	0	0	0	0
5/7/2024 8:25	40802	EXCH_T2	0	0	0	0	0	0	-0.27	-0.23	0	0	0	0	0	0
5/7/2024 8:25	59202	THOM_T1	52	72	20	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
5/7/2024 8:25	59201	THOM_T1	8	9	1	0.16	0.24	0.08	0	0	0	0	0	0	0	0
5/7/2024 8:25	43304	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/7/2024 8:26	40802	EXCH_T2	0	0	0	0	0	0	-0.27	-0.23	0	0	0	0	0	0
5/7/2024 8:26	67703	WERN_T2	0	0	0	0	0	0	-0.27	-0.24	1	1	0	900	900	0
5/7/2024 8:29	67605	WARW_T1	14	12	-2	0.58	0.35	-0.23	-1.05	-1.04	0	0	0	0	0	0
5/7/2024 8:29	61801	EELI_T2	0	0	0	0	0	0	-0.59	-0.61	1	1	0	600	600	0
5/7/2024 8:30	40802	EXCH_T2	0	0	0	0	0	0	-0.27	-0.23	0	0	0	0	0	0
5/7/2024 8:31	13503	MCMI_T2	0	1	1	0	0.4	0.4	-0.01	-0.04	0	0	0	0	0	0
5/7/2024 8:35	40601	PIGR_T1	154	190	36	0.3	0.43	0.13	0.16	0.22	0	0	0	0	0	0
5/7/2024 8:36	40601	PIGR_T1	154	190	36	0.3	0.43	0.13	0.16	0.22	0	0	0	0	0	0
5/7/2024 8:36	42002	MNVL_T2	1	1	0	4.1	4.1	0	0	0	0	0	0	0	0	0
5/7/2024 8:36	42001	MNVL_T2	74	9	-65	0.17	0.34	0.17	-0.07	-0.04	0	0	0	0	0	0
5/7/2024 8:39	67605	WARW_T1	12	11	-1	0.35	0.29	-0.06	-1.04	-1.01	0	0	0	0	0	0
5/7/2024 8:43	46001	BERW_T1	0	0	0	0	0	0	1.43	1.52	0	0	0	0	0	0
5/7/2024 8:44	67605	WARW_T1	12	11	-1	0.35	0.29	-0.06	-1.04	-1.01	0	0	0	0	0	0
5/7/2024 8:45	46506	LOHA_T1	1	2	1	1.1	0.85	-0.25	0	0	0	0	0	0	0	0
5/7/2024 8:45	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
5/7/2024 8:45	46504	LOHA_T1	2	2	0	1.15	1.2	0.05	0	0	0	0	0	0	0	0
5/7/2024 8:45	46501	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 8:46	11507	FREE_T2	0	0	0	0	0	0	0.95	1.02	0	0	0	0	0	0
5/7/2024 8:51	50105	HARR_T3	6	6	0	5.73	5.65	-0.08	0	0	0	0	0	0	0	0
5/7/2024 8:51	50201	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 8:51	50103	HARR_T3	2	2	0	0.75	0.75	0	-0.74	-0.75	1	1	0	1200	1200	0
5/7/2024 8:52	13704	SCHN_T2	0	1	1	0	0.2	0.2	-0.3	-0.29	0	0	0	0	0	0
5/7/2024 8:53	43304	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/7/2024 8:53	67605	WARW_T1	11	11	0	0.25	0.3	0.05	-1.01	-1.01	0	0	0	0	0	0
5/7/2024 8:53	29402	BELT_T1	3	4	1	3.13	2.7	-0.43	0	0	0	0	0	0	0	0
5/7/2024 8:53	29401	BELT_T1	28	55	27	0.14	0.21	0.07	0	0	0	0	0	0	0	0
5/7/2024 8:53	67604	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 8:54	15001	BLMO_T1	3	5	2	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
5/7/2024 8:54	67605	WARW_T1	11	11	0	0.25	0.3	0.05	-1.01	-1.01	0	0	0	0	0	0
5/7/2024 8:54	67604	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 8:56	61803	EELI_T2	0	0	0	0	0	0	0.45	1.08	0	0	0	0	0	0
5/7/2024 8:56	15001	BLMO_T1	3	5	2	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
5/7/2024 8:57	15001	BLMO_T1	3	5	2	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
5/7/2024 8:59	67604	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 8:59	67605	WARW_T1	11	11	0	0.25	0.3	0.05	-1.01	-1.01	0	0	0	0	0	0
5/7/2024 9:05	57401	SPAN_T1	2	4	2	0.7	0.45	-0.25	-0.94	-0.96	1	1	0	600	600	0
5/7/2024 9:05	57403	SPAN_T1	144	117	-27	0.31	0.23	-0.08	0	0	0	0	0	0	0	0
5/7/2024 9:08	57403	SPAN_T1	144	117	-27	0.31	0.23	-0.08	0	0	0	0	0	0	0	0
5/7/2024 9:08	57401	SPAN_T1	2	4	2	0.7	0.45	-0.25	-0.96	-0.87	1	1	0	600	600	0
5/7/2024 9:09	67605	WARW_T1	9	9	0	0.31	0.27	-0.04	-1.01	-1.01	0	0	0	0	0	0
5/7/2024 9:11	62607	ENGL_T1	1	1	0	0	0	0	-1.62	-1.62	0	0	0	0	0	0
5/7/2024 9:12	11507	FREE_T2	0	0	0	0	0	0	0.98	1.13	0	0	0	0	0	0
5/7/2024 9:13	62607	ENGL_T1	1	1	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
5/7/2024 9:14	64702	LITI_T2	0	0	0	0	0	0	-0.62	-0.41	0	0	0	0	0	0
5/7/2024 9:14	67605	WARW_T1	9	9	0	0.31	0.27	-0.04	-1.01	-1.01	0	0	0	0	0	0
5/7/2024 9:15	64904	MILL_T1	0	0	0	0	0	0	0.42	0.47	0	0	0	0	0	0
5/7/2024 9:15	40101	HUNT_T2	0	0	0	0	0	0	-0.49	-0.39	0	0	0	0	0	0
5/7/2024 9:17	64702	LITI_T2	0	0	0	0	0	0	-0.62	-0.41	0	0	0	0	0	0
5/7/2024 9:17	64802	MONE_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/7/2024 9:17	64801	MONE_T2	1	2	1	0.1	0.3	0.2	0.29	0.28	0	0	0	0	0	0
5/7/2024 9:17	47001	HUGH_T2	0	0	0	0	0	0	-0.08	-0.16	0	0	0	0	0	0
5/7/2024 9:18	64702	LITI_T2	0	0	0	0	0	0	-0.62	-0.41	0	0	0	0	0	0
5/7/2024 9:23	20401	ASHF_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/7/2024 9:23	20403	ASHF_T2	11	91	80	0.26	0.37	0.11	0.79	0.48	0	0	0	0	0	0
5/7/2024 9:24	20403	ASHF_T2	11	91	80	0.26	0.37	0.11	0.79	0.48	0	0	0	0	0	0
5/7/2024 9:24	20401	ASHF_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/7/2024 9:34	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.14	0	0	0	0	0	0
5/7/2024 9:35	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.14	0	0	0	0	0	0
5/7/2024 9:36	64101	REFR_T1	0	0	0	0	0	0	-0.33	-0.29	0	0	0	0	0	0
5/7/2024 9:37	46302	ROHR_T1	163	143	-20	0.36	0.27	-0.09	0.11	0.14	0	0	0	0	0	0
5/7/2024 9:37	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.14	0	0	0	0	0	0
5/7/2024 9:37	29401	BELT_T1	54	45	-9	0.2	0.17	-0.03	0	0	1	1	0	900	900	0
5/7/2024 9:37	29402	BELT_T1	6	6	0	1.9	1.82	-0.08	0	0	0	0	0	0	0	0
5/7/2024 9:37	46301	ROHR_T1	298	296	-2	0.56	0.51	-0.05	0	0	0	0	0	0	0	0
5/7/2024 9:38	50103	HARR_T3	2	2	0	0.35	0.4	0.05	-0.76	-0.81	1	1	0	1200	1200	0
5/7/2024 9:38	17002	RIRO_T2	3	201	198	0.97	0.21	-0.76	0.58	0.65	0	0	0	0	0	0
5/7/2024 9:38	50105	HARR_T3	6	6	0	5.97	6.03	0.06	0	0	0	0	0	0	0	0
5/7/2024 9:38	64101	REFR_T1	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
5/7/2024 9:39	67605	WARW_T1	6	12	6	0.22	0.3	0.08	-1.05	-1.05	0	0	0	0	0	0
5/7/2024 9:44	41801	GOCI_T2	2	88	86	0.2	0.25	0.05	0	0	0	0	0	0	0	0
5/7/2024 9:44	67605	WARW_T1	6	12	6	0.22	0.3	0.08	-1.05	-1.05	0	0	0	0	0	0
5/7/2024 9:49	43202	MVIL_T2	105	108	3	1.28	1.07	-0.21	0	0	0	0	0	0	0	0
5/7/2024 9:49	43201	MVIL_T2	1	2	1	0.2	0.15	-0.05	-0.28	-0.28	0	0	0	0	0	0
5/7/2024 9:49	17002	RIRO_T2	7	216	209	0.66	0.21	-0.45	0.65	0.69	0	0	0	0	0	0
5/7/2024 9:50	43202	MVIL_T2	105	108	3	1.28	1.07	-0.21	-0.62	-0.64	0	0	0	0	0	0
5/7/2024 9:50	46302	ROHR_T1	140	104	-36	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
5/7/2024 9:50	54201	PENN_T1	10	33	23	0.87	0.44	-0.43	-0.79	-0.8	0	0	0	0	0	0
5/7/2024 9:50	54203	PENN_T1	18	18	0	0.82	1.31	0.49	0	0	0	0	0	0	0	0
5/7/2024 9:50	46301	ROHR_T1	293	265	-28	0.5	0.44	-0.06	0.18	0.17	0	0	0	0	0	0
5/7/2024 9:50	10801	CHHI_T1	7	9	2	0.61	0.87	0.26	-0.59	-0.73	1	1	0	900	900	0
5/7/2024 9:50	43201	MVIL_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/7/2024 9:52	67804	WLAN_T1	5	6	1	0.2	0.13	-0.07	-1.12	-1.13	0	0	0	0	0	0
5/7/2024 9:52	67803	WLAN_T1	8	8	0	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
5/7/2024 9:53	46301	ROHR_T1	293	265	-28	0.5	0.44	-0.06	0.18	0.17	0	0	0	0	0	0
5/7/2024 9:53	67804	WLAN_T1	5	6	1	0.2	0.13	-0.07	-1.13	-1.13	0	0	0	0	0	0
5/7/2024 9:53	67803	WLAN_T1	8	8	0	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
5/7/2024 9:53	46302	ROHR_T1	140	104	-36	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
5/7/2024 9:54	16302	ALPA_T2	1	1	0	0.1	0.4	0.3	0.78	0.89	0	0	0	0	0	0
5/7/2024 9:55	49804	UNIV_T1	1	1	0	0.6	0.6	0	2.12	2.28	0	0	0	0	0	0
5/7/2024 9:55	49803	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 9:56	44301	BEAV_T2	1	1	0	2.5	1.2	-1.3	0.96	0.92	2	2	0	1500	1500	0
5/7/2024 9:59	54502	ENOL_T2	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
5/7/2024 9:59	54501	ENOL_T2	0	4	4	0	0.15	0.15	-0.54	-0.5	1	1	0	600	600	0
5/7/2024 9:59	54505	ENOL_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
5/7/2024 10:00	42002	MNVL_T2	1	1	0	5.2	4.9	-0.3	0	0	0	0	0	0	0	0
5/7/2024 10:00	54602	SUMM_T2	0	0	0	0	0	0	-2.33	-2.37	1	1	0	600	600	0
5/7/2024 10:00	59101	WALK_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/7/2024 10:00	11102	EGYP_T1	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
5/7/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.01	0.03	1	1	0	600	600	0
5/7/2024 10:00	17101	WTRE_T2	324	389	65	0.23	0.35	0.12	0	0	0	0	0	0	0	0
5/7/2024 10:00	17001	RIRO_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
5/7/2024 10:00	22405	MORG_T2	0	0	0	0	0	0	-0.21	-0.16	0	0	0	0	0	0
5/7/2024 10:00	29402	BELT_T1	5	9	4	2.1	1.44	-0.66	0	0	0	0	0	0	0	0
5/7/2024 10:00	45602	WOOL_T1	2	3	1	0.2	0.13	-0.07	0.51	0.5	0	0	0	0	0	0
5/7/2024 10:00	65005	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/7/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
5/7/2024 10:00	56801	BENV_T1	33	42	9	0.99	0.97	-0.02	-0.18	-0.17	0	0	0	0	0	0
5/7/2024 10:00	14603	SWHI_T1	3	2	-1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
5/7/2024 10:00	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:00	66302	MCGO_T2	357	298	-59	0.27	0.23	-0.04	-1.6	-1.68	1	1	0	600	600	0
5/7/2024 10:00	40505	CRES_T1	3	3	0	4.83	4.73	-0.1	0.33	0.39	0	0	0	0	0	0
5/7/2024 10:00	46504	LOHA_T1	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:00	63401	HONY_T1	0	0	0	0	0	0	0.94	0.92	0	0	0	0	0	0
5/7/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.36	0.33	1	1	0	600	600	0
5/7/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	-0.39	-0.46	1	1	0	600	600	0
5/7/2024 10:00	57403	SPAN_T1	4	25	21	0.15	0.26	0.11	-0.06	-0.03	0	0	0	0	0	0
5/7/2024 10:00	14602	SWHI_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/7/2024 10:00	29401	BELT_T1	24	27	3	0.13	0.12	-0.01	0	0	4	4	0	3600	3600	0
5/7/2024 10:00	43304	WATS_T2	0	0	0	0	0	0	0	0	1	0	-1	600	0	-600
5/7/2024 10:00	65702	RVIL_T2	0	0	0	0	0	0	-0.82	-0.88	1	1	0	600	600	0
5/7/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-1.53	-1.59	0	0	0	0	0	0
5/7/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
5/7/2024 10:00	12501	MITR_T2	1	1	0	0.6	4.2	3.6	0	0	0	0	0	0	0	0
5/7/2024 10:00	64802	MONE_T2	3	4	1	0.23	0.4	0.17	0	0	0	0	0	0	0	0
5/7/2024 10:00	44502	HAMI_T2	1	1	0	2.4	2.4	0	-0.92	-0.94	0	0	0	0	0	0
5/7/2024 10:00	53501	EVIL_T2	1	1	0	0.8	0.4	-0.4	-0.45	0.23	4	4	0	2400	2400	0
5/7/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.11	0	0	0	0	0	0
5/7/2024 10:00	12802	MICK_T1	0	0	0	0	0	0	-0.97	-1.01	0	0	0	0	0	0
5/7/2024 10:00	67703	WERN_T2	0	0	0	0	0	0	-0.22	-0.22	1	1	0	900	900	0
5/7/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 10:00	53903	HALI_T2	5	7	2	0.72	0.8	0.08	-0.15	-0.13	0	0	0	0	0	0
5/7/2024 10:00	62605	ENGL_T1	0	0	0	0	0	0	-0.67	-0.73	0	0	0	0	0	0
5/7/2024 10:00	52004	LING_T2	0	3	3	0	0.7	0.7	0.34	0.36	0	0	0	0	0	0
5/7/2024 10:00	49804	UNIV_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:00	54201	PENN_T1	10	31	21	0.97	0.42	-0.55	-0.8	-0.69	0	0	0	0	0	0
5/7/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
5/7/2024 10:00	12807	MICK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/7/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-0.32	-0.2	1	1	0	1200	1200	0
5/7/2024 10:00	40201	BEGA_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/7/2024 10:00	52006	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:00	57205	ROSS_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
5/7/2024 10:00	53901	HALI_T2	2	2	0	0.3	0.55	0.25	-1	-0.97	0	0	0	0	0	0
5/7/2024 10:00	60101	COCA_T1	0	1	1	0	0.1	0.1	0.36	0.37	0	0	0	0	0	0
5/7/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 10:00	24701	FLND_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
5/7/2024 10:00	49803	UNIV_T1	0	3	3	0	0.2	0.2	-0.94	-0.95	0	0	0	0	0	0
5/7/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	0.01	0.03	1	1	0	1200	1200	0
5/7/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.01	0.03	1	1	0	600	600	0
5/7/2024 10:00	57401	SPAN_T1	2	5	3	0.3	0.48	0.18	-0.95	-1.01	1	1	0	600	600	0
5/7/2024 10:00	62607	ENGL_T1	1	1	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
5/7/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.55	0.57	0	0	0	0	0	0
5/7/2024 10:00	67603	WARW_T1	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
5/7/2024 10:00	56803	BENV_T1	196	188	-8	0.4	0.37	-0.03	-0.1	-0.09	1	1	0	600	600	0
5/7/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-1.34	-1.34	2	2	0	1800	1800	0
5/7/2024 10:00	11101	EGYP_T1	0	0	0	0	0	0	3.2	3.26	0	0	0	0	0	0
5/7/2024 10:00	24702	FLND_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:00	58803	COCO_T1	1	1	0	1.4	2.3	0.9	0	0	0	0	0	0	0	0
5/7/2024 10:00	13503	MCMI_T2	1	1	0	0.8	1.1	0.3	-0.01	-0.04	0	0	0	0	0	0
5/7/2024 10:00	58102	NEKI_T1	1	1	0	1.1	1.3	0.2	-0.74	-0.73	1	1	0	1200	1200	0
5/7/2024 10:00	48302	ORWI_T2	2	2	0	0.55	0.5	-0.05	0.03	0.04	0	0	0	0	0	0
5/7/2024 10:00	56501	ROCK_T2	1	3	2	0.7	0.23	-0.47	-0.01	-0.01	0	0	0	0	0	0
5/7/2024 10:00	54601	SUMM_T2	3	8	5	0.17	0.45	0.28	0	0	0	0	0	0	0	0
5/7/2024 10:00	10801	CHHI_T1	6	9	3	0.73	0.87	0.14	-0.73	-0.66	1	1	0	900	900	0
5/7/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-1.42	-1.42	2	2	0	2100	2100	0
5/7/2024 10:00	57203	ROSS_T1	0	0	0	0	0	0	-0.34	-0.29	0	0	0	0	0	0
5/7/2024 10:00	40601	PIGR_T1	167	178	11	0.48	0.53	0.05	0.31	0.28	0	0	0	0	0	0
5/7/2024 10:00	65002	NEFF_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:00	12502	MITR_T2	1	1	0	7	7	0	0	0	0	0	0	0	0	0
5/7/2024 10:00	67502	WEWI_T2	2	3	1	1.05	0.67	-0.38	0	0	0	0	0	0	0	0
5/7/2024 10:00	12604	MACA_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
5/7/2024 10:00	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 10:00	59202	THOM_T1	8	12	4	0.1	0.16	0.06	0	0	0	0	0	0	0	0
5/7/2024 10:00	12803	MICK_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:00	17002	RIRO_T2	201	184	-17	0.21	0.2	-0.01	0.69	0.76	0	0	0	0	0	0
5/7/2024 10:00	59201	THOM_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/7/2024 10:00	10805	CHHI_T2	1	3	2	8.5	4.25	-4.25	-0.81	-0.69	1	1	0	600	600	0
5/7/2024 10:00	40703	FFLD_T1	0	0	0	0	0	0	0.41	0.35	0	0	0	0	0	0
5/7/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
5/7/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	-0.87	-0.88	0	0	0	0	0	0
5/7/2024 10:00	41902	REED_T1	0	0	0	0	0	0	3.21	3.26	0	0	0	0	0	0
5/7/2024 10:00	42001	MNVL_T2	5	4	-1	0.52	0.45	-0.07	0.01	0.02	0	0	0	0	0	0
5/7/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
5/7/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
5/7/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	1.09	1.15	0	0	0	0	0	0
5/7/2024 10:00	54203	PENN_T1	18	18	0	0.93	1.31	0.38	0	0	0	0	0	0	0	0
5/7/2024 10:00	64801	MONE_T2	1	2	1	0.4	0.3	-0.1	0.28	0.3	0	0	0	0	0	0
5/7/2024 10:00	67605	WARW_T1	11	13	2	0.27	0.44	0.17	0	0	0	0	0	0	0	0
5/7/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.15	0.04	0	0	0	0	0	0
5/7/2024 10:00	67702	WERN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/7/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	0.48	0.54	0	0	0	0	0	0
5/7/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.31	-0.23	0	0	0	0	0	0
5/7/2024 10:00	50701	SMEC_T1	0	0	0	0	0	0	-0.5	0.44	1	0	-1	900	0	-900
5/7/2024 10:00	46004	BERW_T2	0	1	1	0	0.1	0.1	0.18	0.12	0	0	0	0	0	0
5/7/2024 10:00	16103	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:00	53902	HALI_T2	1	3	2	5.3	2.17	-3.13	0	0	0	0	0	0	0	0
5/7/2024 10:00	42701	AUGU_T1	1	1	0	0.8	1	0.2	0	0	2	2	0	1800	1800	0
5/7/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-0.98	-0.93	0	0	0	0	0	0
5/7/2024 10:00	46501	LOHA_T1	0	0	0	0	0	0	-0.1	-0.06	1	1	0	1200	1200	0
5/7/2024 10:00	13704	SCHN_T2	0	0	0	0	0	0	-0.28	-0.26	0	0	0	0	0	0
5/7/2024 10:00	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 10:00	46506	LOHA_T1	2	1	-1	0.5	0.5	0	0	0	0	0	0	0	0	0
5/7/2024 10:00	52002	LING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/7/2024 10:00	12601	MACA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 10:00	14601	SWHI_T1	1	1	0	0.1	0.3	0.2	-0.4	-0.37	0	0	0	0	0	0
5/7/2024 10:00	40603	PIGR_T1	0	0	0	0	0	0	-0.7	-0.67	1	1	0	900	900	0
5/7/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	0.07	0.11	1	1	0	600	600	0
5/7/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.34	1.35	0	0	0	0	0	0
5/7/2024 10:00	25603	ARRO_T1	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
5/7/2024 10:00	65003	NEFF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/7/2024 10:00	12505	MITR_T2	1	1	0	0.6	0.2	-0.4	1.09	1.28	0	0	0	0	0	0
5/7/2024 10:06	60504	NMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/7/2024 10:06	67502	WEWI_T2	2	3	1	1.05	0.67	-0.38	0	0	0	0	0	0	0	0
5/7/2024 10:06	60502	NMAN_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
5/7/2024 10:06	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.11	0	0	0	0	0	0
5/7/2024 10:06	64305	LINC_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
5/7/2024 10:06	57104	SPHI_T2	0	0	0	0	0	0	-0.95	-1.02	0	0	0	0	0	0
5/7/2024 10:06	40601	PIGR_T1	167	178	11	0.48	0.53	0.05	0.31	0.28	0	0	0	0	0	0
5/7/2024 10:06	67503	WEWI_T2	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
5/7/2024 10:06	64904	MILL_T1	0	0	0	0	0	0	0.48	0.54	0	0	0	0	0	0
5/7/2024 10:06	57101	SPHI_T2	6	6	0	1.08	1.35	0.27	0	0	0	0	0	0	0	0
5/7/2024 10:06	57106	SPHI_T2	3	3	0	1.1	1.37	0.27	0	0	0	0	0	0	0	0
5/7/2024 10:06	60501	NMAN_T2	3	3	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
5/7/2024 10:07	51702	OBER_T1	2	2	0	2.6	3	0.4	-0.39	-0.37	0	0	0	0	0	0
5/7/2024 10:07	53501	EVIL_T2	1	2	1	0.8	0.4	-0.4	-0.23	0.12	2	2	0	1200	1200	0
5/7/2024 10:07	45702	LIND_T2	1	2	1	0.5	1.1	0.6	-0.35	-0.36	0	0	0	0	0	0
5/7/2024 10:07	58402	MORO_T1	0	0	0	0	0	0	-1.02	-1.03	3	3	0	2400	2400	0
5/7/2024 10:07	52001	LING_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
5/7/2024 10:07	13704	SCHN_T2	0	0	0	0	0	0	-0.28	-0.26	0	0	0	0	0	0
5/7/2024 10:07	16102	BING_T2	0	0	0	0	0	0	1.08	1.11	0	0	0	0	0	0
5/7/2024 10:07	24105	EHAZ_T1	4	4	0	6.28	6.5	0.22	-0.57	-0.6	1	1	0	1200	1200	0
5/7/2024 10:07	63804	HEMP_T1	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
5/7/2024 10:07	59003	MIFF_T1	0	0	0	0	0	0	-0.34	-0.09	0	0	0	0	0	0
5/7/2024 10:07	39601	LNFD_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 10:07	59001	MIFF_T1	3	1	-2	0.73	1	0.27	0	0	0	0	0	0	0	0
5/7/2024 10:07	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:07	16103	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:07	59101	WALK_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/7/2024 10:07	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 10:07	67605	WARW_T1	11	13	2	0.27	0.44	0.17	-1.05	-1.05	0	0	0	0	0	0
5/7/2024 10:07	16605	PONO_T1	0	0	0	0	0	0	-0.57	-0.6	1	1	0	1200	1200	0
5/7/2024 10:07	63801	HEMP_T1	0	0	0	0	0	0	0.37	0.41	0	0	0	0	0	0
5/7/2024 10:07	46203	DANV_T2	0	0	0	0	0	0	0.51	0.57	0	0	0	0	0	0
5/7/2024 10:07	42903	MIDD_T2	0	0	0	0	0	0	0.51	0.54	1	1	0	1200	1200	0
5/7/2024 10:07	22102	EDEL_T1	0	0	0	0	0	0	-0.71	-0.77	1	1	0	1200	1200	0
5/7/2024 10:07	63803	HEMP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/7/2024 10:07	67702	WERN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/7/2024 10:07	55003	NEWP_T2	14	14	0	0.7	0.73	0.03	0.03	0.02	0	0	0	0	0	0
5/7/2024 10:07	45902	AUBU_T1	0	0	0	0	0	0	-0.39	-0.46	1	1	0	600	600	0
5/7/2024 10:07	59102	WALK_T2	0	0	0	0	0	0	0.48	0.54	0	0	0	0	0	0
5/7/2024 10:07	60801	BUCK_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
5/7/2024 10:07	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.11	0	0	0	0	0	0
5/7/2024 10:07	24102	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 10:07	67703	WERN_T2	0	0	0	0	0	0	-0.22	-0.22	1	1	0	900	900	0
5/7/2024 10:07	67002	STHI_T2	1	3	2	0.1	0.2	0.1	0.81	0.78	0	0	0	0	0	0
5/7/2024 10:07	67001	STHI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/7/2024 10:07	54001	SDLE_T1	9	10	1	1.2	1.3	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:08	44502	HAMI_T2	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
5/7/2024 10:08	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.39	1	1	0	600	600	0
5/7/2024 10:08	64101	REFR_T1	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
5/7/2024 10:08	43108	SMIL_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/7/2024 10:08	20401	ASHF_T2	2	3	1	0.3	0.2	-0.1	-0.28	-0.23	0	0	0	0	0	0
5/7/2024 10:08	50506	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 10:08	43104	SMIL_T2	0	0	0	0	0	0	-0.82	-0.74	1	1	0	300	300	0
5/7/2024 10:08	60701	BREC_T1	0	0	0	0	0	0	-0.14	-0.14	2	2	0	1200	1200	0
5/7/2024 10:08	57401	SPAN_T1	2	5	3	0.3	0.48	0.18	-1.01	-1.03	1	1	0	600	600	0
5/7/2024 10:08	40902	JESH_T1	0	0	0	0	0	0	0.07	0.11	1	1	0	600	600	0
5/7/2024 10:08	20403	ASHF_T2	2	1	-1	0.65	0.1	-0.55	0	0	0	0	0	0	0	0
5/7/2024 10:08	67001	STHI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/7/2024 10:08	67002	STHI_T2	1	3	2	0.1	0.2	0.1	0.78	0.77	0	0	0	0	0	0
5/7/2024 10:08	45602	WOOL_T1	2	3	1	0.2	0.13	-0.07	0.51	0.5	0	0	0	0	0	0
5/7/2024 10:08	44505	HAMI_T2	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
5/7/2024 10:08	46001	BERW_T1	0	0	0	0	0	0	0.86	0.75	0	0	0	0	0	0
5/7/2024 10:08	63306	GREE_T1	0	0	0	0	0	0	-1.37	-1.3	1	1	0	900	900	0
5/7/2024 10:08	61302	EARL_T1	0	0	0	0	0	0	-0.05	0.01	3	3	0	2700	2700	0
5/7/2024 10:08	51401	LYKE_T1	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
5/7/2024 10:08	50502	MECH_T1	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:08	40101	HUNT_T2	0	0	0	0	0	0	-0.53	-0.37	0	0	0	0	0	0
5/7/2024 10:08	43101	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:08	50501	MECH_T1	4	4	0	1.45	0.55	-0.9	0	0	0	0	0	0	0	0
5/7/2024 10:08	57403	SPAN_T1	4	25	21	0.15	0.26	0.11	0	0	0	0	0	0	0	0
5/7/2024 10:08	50505	MECH_T1	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
5/7/2024 10:08	43103	SMIL_T2	15	9	-6	0.22	0.22	0	0	0	0	0	0	0	0	0
5/7/2024 10:09	67001	STHI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/7/2024 10:09	12807	MICK_T1	1	0	-1	0.1	0	-0.1	0.19	0.19	0	0	0	0	0	0
5/7/2024 10:09	67002	STHI_T2	1	3	2	0.1	0.2	0.1	0.78	0.77	0	0	0	0	0	0
5/7/2024 10:09	12803	MICK_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:09	15103	UPHA_T2	1	1	0	0.2	0.4	0.2	0.49	0.48	0	0	0	0	0	0
5/7/2024 10:10	67605	WARW_T1	11	13	2	0.27	0.44	0.17	-1.05	-0.99	0	0	0	0	0	0
5/7/2024 10:10	45501	DERR_T2	1	1	0	1.1	1.2	0.1	0.8	0.76	2	2	0	1800	1800	0
5/7/2024 10:10	67001	STHI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/7/2024 10:10	67002	STHI_T2	1	3	2	0.1	0.2	0.1	1.56	1.54	0	0	0	0	0	0
5/7/2024 10:10	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 10:10	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
5/7/2024 10:10	15001	BLMO_T1	4	5	1	0.43	0.26	-0.17	0	0	0	0	0	0	0	0
5/7/2024 10:10	45502	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 10:11	45502	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 10:11	45501	DERR_T2	1	1	0	1.1	1.2	0.1	0.8	0.76	2	2	0	1800	1800	0
5/7/2024 10:11	15001	BLMO_T1	4	5	1	0.43	0.26	-0.17	0	0	0	0	0	0	0	0
5/7/2024 10:12	67702	WERN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/7/2024 10:12	67703	WERN_T2	0	0	0	0	0	0	-0.22	-0.16	1	1	0	900	900	0
5/7/2024 10:13	28403	HART_T2	0	0	0	0	0	0	-0.85	-0.83	1	1	0	900	900	0
5/7/2024 10:13	23202	HIRU_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
5/7/2024 10:13	23201	HIRU_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:14	67702	WERN_T2	1	0	-1	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
5/7/2024 10:15	47001	HUGH_T2	0	0	0	0	0	0	-0.2	-0.14	0	0	0	0	0	0
5/7/2024 10:17	10801	CHHI_T1	9	6	-3	0.87	0.65	-0.22	-0.66	-0.57	1	1	0	900	900	0
5/7/2024 10:18	16403	MOPO_T2	0	0	0	0	0	0	0.27	0.36	0	0	0	0	0	0
5/7/2024 10:19	14403	SSLA_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
5/7/2024 10:19	57401	SPAN_T1	4	5	1	0.53	0.48	-0.05	-3.04	-3.1	3	3	0	1800	1800	0
5/7/2024 10:19	14404	SSLA_T1	3	3	0	2.13	2.07	-0.06	0.04	0.04	0	0	0	0	0	0
5/7/2024 10:19	14401	SSLA_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
5/7/2024 10:19	57403	SPAN_T1	12	25	13	0.23	0.27	0.04	0	0	0	0	0	0	0	0
5/7/2024 10:19	14402	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 10:20	57401	SPAN_T1	4	5	1	0.53	0.48	-0.05	-1.01	-1.03	1	1	0	600	600	0
5/7/2024 10:20	57403	SPAN_T1	12	25	13	0.23	0.27	0.04	0	0	0	0	0	0	0	0
5/7/2024 10:21	57403	SPAN_T1	12	25	13	0.23	0.27	0.04	-0.03	-0.05	0	0	0	0	0	0
5/7/2024 10:21	43201	MVIL_T2	2	1	-1	0.15	0.2	0.05	-0.31	-0.26	0	0	0	0	0	0
5/7/2024 10:21	57401	SPAN_T1	4	5	1	0.53	0.48	-0.05	-1.01	-1.03	1	1	0	600	600	0
5/7/2024 10:21	43202	MVIL_T2	106	115	9	1.02	0.92	-0.1	0.61	0.61	0	0	0	0	0	0
5/7/2024 10:22	14404	SSLA_T1	3	3	0	2.13	2.07	-0.06	0.04	0.04	0	0	0	0	0	0
5/7/2024 10:22	14402	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 10:22	14403	SSLA_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
5/7/2024 10:22	14401	SSLA_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
5/7/2024 10:23	29402	BELT_T1	5	9	4	2.08	1.46	-0.62	0	0	0	0	0	0	0	0
5/7/2024 10:23	29401	BELT_T1	18	22	4	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
5/7/2024 10:24	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 10:24	40303	TAMA_T3	0	0	0	0	0	0	2.4	1.98	0	0	0	0	0	0
5/7/2024 10:25	20401	ASHF_T2	2	5	3	0.2	0.37	0.17	0	0	0	0	0	0	0	0
5/7/2024 10:25	15001	BLMO_T1	2	5	3	0.4	0.4	0	0	0	0	0	0	0	0	0
5/7/2024 10:25	20403	ASHF_T2	0	6	6	0	0.5	0.5	0.67	0.62	0	0	0	0	0	0
5/7/2024 10:26	57401	SPAN_T1	4	5	1	0.53	0.48	-0.05	-1.03	-0.92	1	1	0	600	600	0
5/7/2024 10:26	57403	SPAN_T1	12	25	13	0.23	0.27	0.04	0	0	0	0	0	0	0	0
5/7/2024 10:26	41304	FISH_T2	1	1	0	0	0	0	0.35	0.27	0	0	0	0	0	0
5/7/2024 10:27	20403	ASHF_T2	0	6	6	0	0.5	0.5	0.67	0.62	0	0	0	0	0	0
5/7/2024 10:27	67703	WERN_T2	0	0	0	0	0	0	-0.16	-0.16	1	1	0	900	900	0
5/7/2024 10:27	20401	ASHF_T2	2	5	3	0.2	0.37	0.17	0	0	0	0	0	0	0	0
5/7/2024 10:27	67702	WERN_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/7/2024 10:28	67702	WERN_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/7/2024 10:28	67703	WERN_T2	0	0	0	0	0	0	-0.48	-0.47	3	3	0	2700	2700	0
5/7/2024 10:28	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 10:28	67605	WARW_T1	13	12	-1	0.44	0.43	-0.01	-0.99	-0.97	0	0	0	0	0	0
5/7/2024 10:29	41304	FISH_T2	1	1	0	0	0	0	0.35	0.27	0	0	0	0	0	0
5/7/2024 10:30	17401	FOHI_T1	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
5/7/2024 10:31	41304	FISH_T2	1	1	0	0	0	0	0.7	0.53	0	0	0	0	0	0
5/7/2024 10:31	59003	MIFF_T1	0	0	0	0	0	0	-0.16	-0.35	0	0	0	0	0	0
5/7/2024 10:31	59001	MIFF_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
5/7/2024 10:34	55002	NEWP_T1	8	9	1	0.71	0.83	0.12	-0.23	-0.24	0	0	0	0	0	0
5/7/2024 10:34	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:35	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:35	55002	NEWP_T1	8	9	1	0.71	0.83	0.12	-0.46	-0.48	0	0	0	0	0	0
5/7/2024 10:36	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:36	55002	NEWP_T1	8	9	1	0.71	0.83	0.12	-0.23	-0.24	0	0	0	0	0	0
5/7/2024 10:36	56501	ROCK_T2	3	3	0	0.3	0.15	-0.15	-0.01	-0.01	0	0	0	0	0	0
5/7/2024 10:37	66502	SMAN_T2	0	1	1	0	0.4	0.4	0.46	0.53	0	0	0	0	0	0
5/7/2024 10:37	43801	SWIL_T1	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 10:37	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 10:37	43802	SWIL_T1	0	4	4	0	0	0	-0.14	-0.14	1	1	0	600	600	0
5/7/2024 10:37	56501	ROCK_T2	3	3	0	0.3	0.15	-0.15	-0.01	-0.01	0	0	0	0	0	0
5/7/2024 10:38	44301	BEAV_T2	1	2	1	1.5	0.7	-0.8	0.92	0.95	2	2	0	1500	1500	0
5/7/2024 10:38	66502	SMAN_T2	0	1	1	0	0.4	0.4	0.53	0.36	0	0	0	0	0	0
5/7/2024 10:38	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 10:39	14404	SSLA_T1	3	3	0	2.07	2.07	0	0	0	0	0	0	0	0	0
5/7/2024 10:39	14401	SSLA_T1	3	1	-2	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
5/7/2024 10:39	14402	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 10:39	14403	SSLA_T1	0	2	2	0	0.6	0.6	0.62	0.7	0	0	0	0	0	0
5/7/2024 10:39	59101	WALK_T2	1	1	0	0.1	0.2	0.1	1.86	2.26	0	0	0	0	0	0
5/7/2024 10:40	15001	BLMO_T1	5	5	0	0.24	0.38	0.14	0	0	0	0	0	0	0	0
5/7/2024 10:40	44301	BEAV_T2	1	2	1	1.5	0.7	-0.8	0.95	1.05	2	2	0	1500	1500	0
5/7/2024 10:42	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-0.99	0	0	0	0	0	0
5/7/2024 10:44	61702	ELIZ_T2	0	2	2	0	0.2	0.2	1.96	1.88	2	2	0	1500	1500	0
5/7/2024 10:44	61704	ELIZ_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:45	64704	LITI_T1	0	0	0	0	0	0	0.39	0.35	1	1	0	600	600	0
5/7/2024 10:46	12803	MICK_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/7/2024 10:46	12801	MICK_T1	0	0	0	0	0	0	0.08	0.1	1	1	0	600	600	0
5/7/2024 10:47	63801	HEMP_T1	3	7	4	0.27	0.49	0.22	0.4	0.52	0	0	0	0	0	0
5/7/2024 10:47	47402	PENS_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/7/2024 10:47	63803	HEMP_T1	4	5	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:47	63804	HEMP_T1	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
5/7/2024 10:47	47401	PENS_T1	2	4	2	0.3	1	0.7	1.03	1.18	0	0	0	0	0	0
5/7/2024 10:47	47403	PENS_T1	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
5/7/2024 10:48	25502	MADI_T1	2	2	0	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
5/7/2024 10:48	25501	MADI_T1	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
5/7/2024 10:48	25503	MADI_T1	112	114	2	0.21	0.21	0	-1.05	-1.03	0	0	0	0	0	0
5/7/2024 10:48	13303	ORVI_T1	3	0	-3	0.27	0	-0.27	-0.09	-0.12	0	0	0	0	0	0
5/7/2024 10:49	42201	SHEN_T2	0	0	0	0	0	0	0.06	0.02	1	1	0	600	600	0
5/7/2024 10:50	13302	ORVI_T2	1	0	-1	0.1	0	-0.1	1.44	1.47	0	0	0	0	0	0
5/7/2024 10:51	27502	WEIS_T2	0	0	0	0	0	0	-0.29	-0.4	0	0	0	0	0	0
5/7/2024 10:51	27503	WEIS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 10:51	67203	TEHI_T1	0	0	0	0	0	0	1.83	1.95	4	4	0	3000	3000	0
5/7/2024 10:52	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 10:52	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 10:53	26002	WDAM_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/7/2024 10:53	26001	WDAM_T1	0	0	0	0	0	0	-0.32	-0.3	0	0	0	0	0	0
5/7/2024 10:54	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 10:55	42701	AUGU_T1	1	1	0	0.8	0.9	0.1	0	0	2	2	0	1800	1800	0
5/7/2024 10:55	44301	BEAV_T2	1	3	2	1.3	0.3	-1	1.05	0.89	2	2	0	1500	1500	0
5/7/2024 10:56	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 10:56	60101	COCA_T1	2	2	0	0.1	0.3	0.2	0.48	0.45	0	0	0	0	0	0
5/7/2024 10:56	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	1	1	0	900	900	0
5/7/2024 10:57	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 10:57	42701	AUGU_T1	1	1	0	0.8	0.9	0.1	0	0	2	2	0	1800	1800	0
5/7/2024 10:58	53903	HALI_T2	5	4	-1	0.96	0.93	-0.03	0	0	0	0	0	0	0	0
5/7/2024 10:58	53902	HALI_T2	3	3	0	2.27	2.2	-0.07	-0.18	-0.17	0	0	0	0	0	0
5/7/2024 10:58	53901	HALI_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
5/7/2024 10:58	60101	COCA_T1	2	2	0	0.1	0.3	0.2	0.48	0.45	0	0	0	0	0	0
5/7/2024 10:58	53501	EVIL_T2	1	2	1	0.6	0.55	-0.05	-0.09	-0.06	2	2	0	1200	1200	0
5/7/2024 10:58	44301	BEAV_T2	1	3	2	1.3	0.3	-1	1.05	0.89	2	2	0	1500	1500	0
5/7/2024 11:00	53902	HALI_T2	3	3	0	2.2	2.33	0.13	0	0	0	0	0	0	0	0
5/7/2024 11:00	53901	HALI_T2	1	2	1	0.5	0.45	-0.05	0.94	-0.87	0	0	0	0	0	0
5/7/2024 11:00	53903	HALI_T2	4	6	2	0.93	0.9	-0.03	0	0	0	0	0	0	0	0
5/7/2024 11:00	14204	EALL_T2	2	5	3	0.2	0.54	0.34	-0.25	-0.21	0	0	0	0	0	0
5/7/2024 11:02	15603	NSTR_T2	1	4	3	0.2	0.25	0.05	-0.68	-0.67	0	0	0	0	0	0
5/7/2024 11:02	15601	NSTR_T2	3	5	2	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
5/7/2024 11:03	42902	MIDD_T2	0	9	9	0	0.54	0.54	-0.63	-0.53	2	2	0	900	900	0
5/7/2024 11:03	65503	MOJO_T2	0	2	2	0	0.65	0.65	-1.41	-1.34	2	2	0	1800	1800	0
5/7/2024 11:03	25402	LAHA_T2	1	2	1	0.3	0.3	0	-0.69	-0.21	0	0	0	0	0	0
5/7/2024 11:03	25404	LAHA_T2	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
5/7/2024 11:03	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 11:03	13503	MCMI_T2	1	1	0	0.3	0.6	0.3	-0.01	-0.01	0	0	0	0	0	0
5/7/2024 11:04	42802	SELI_T1	1	1	0	0.1	0.4	0.3	-0.85	-0.86	0	0	0	0	0	0
5/7/2024 11:04	42902	MIDD_T2	0	9	9	0	0.54	0.54	-0.63	-0.53	2	2	0	900	900	0
5/7/2024 11:04	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 11:05	64101	REFR_T1	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
5/7/2024 11:06	13701	SCHN_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
5/7/2024 11:06	13704	SCHN_T2	1	1	0	0.3	0.5	0.2	-0.27	-0.26	0	0	0	0	0	0
5/7/2024 11:07	16301	ALPA_T1	2	4	2	0.15	0.28	0.13	-0.28	-0.27	0	0	0	0	0	0
5/7/2024 11:08	57403	SPAN_T1	22	28	6	0.32	0.29	-0.03	0	0	0	0	0	0	0	0
5/7/2024 11:08	10704	CATA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/7/2024 11:08	10707	CATA_T2	2	1	-1	0.65	0.8	0.15	0	0	0	0	0	0	0	0
5/7/2024 11:08	10705	CATA_T2	1	0	-1	0.1	0	-0.1	0.07	0.08	0	0	0	0	0	0
5/7/2024 11:08	42802	SELI_T1	1	1	0	0.1	0.4	0.3	-0.85	-0.86	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/7/2024 11:08	10701	CATA_T2	3	3	0	0.27	0.33	0.06	0	0	0	0	0	0	0	0
5/7/2024 11:08	59201	THOM_T1	1	2	1	0.4	1	0.6	0	0	0	0	0	0	0	0
5/7/2024 11:08	59202	THOM_T1	6	10	4	0.3	0.43	0.13	0	0	0	0	0	0	0	0
5/7/2024 11:08	57401	SPAN_T1	4	6	2	0.6	0.82	0.22	-1.01	-0.99	1	1	0	600	600	0
5/7/2024 11:09	13701	SCHN_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
5/7/2024 11:09	13704	SCHN_T2	1	1	0	0.3	0.5	0.2	-0.26	-0.13	0	0	0	0	0	0
5/7/2024 11:10	60101	COCA_T1	1	4	3	0.2	0.43	0.23	0	0	0	0	0	0	0	0
5/7/2024 11:10	64101	REFR_T1	0	0	0	0	0	0	-0.09	-0.04	0	0	0	0	0	0
5/7/2024 11:10	60102	COCA_T1	0	0	0	0	0	0	-0.67	-0.5	2	2	0	1200	1200	0
5/7/2024 11:12	24102	EHAZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/7/2024 11:12	24105	EHAZ_T1	4	4	0	6.75	6.6	-0.15	0	0	0	0	0	0	0	0
5/7/2024 11:12	24101	EHAZ_T1	6	2	-4	0.25	0.4	0.15	0	0	0	0	0	0	0	0
5/7/2024 11:12	60101	COCA_T1	1	4	3	0.2	0.43	0.23	0.9	0.88	0	0	0	0	0	0
5/7/2024 11:12	24103	EHAZ_T1	0	0	0	0	0	0	-0.29	-0.38	0	0	0	0	0	0
5/7/2024 11:12	23203	HIRU_T2	0	0	0	0	0	0	0.05	0.12	0	0	0	0	0	0
5/7/2024 11:12	23201	HIRU_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
5/7/2024 11:13	10707	CATA_T2	2	1	-1	0.65	0.8	0.15	0	0	0	0	0	0	0	0
5/7/2024 11:13	11507	FREE_T2	0	0	0	0	0	0	1.06	1.02	0	0	0	0	0	0
5/7/2024 11:13	10704	CATA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/7/2024 11:13	10705	CATA_T2	1	0	-1	0.1	0	-0.1	0.08	0.1	0	0	0	0	0	0
5/7/2024 11:13	10701	CATA_T2	3	3	0	0.27	0.33	0.06	0	0	0	0	0	0	0	0
5/7/2024 11:16	65402	MARI_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
5/7/2024 11:17	59302	MCAL_T1	0	0	0	0	0	0	0.26	0.24	1	1	0	600	600	0
5/7/2024 11:17	59301	MCAL_T1	3	7	4	0.87	0.71	-0.16	0	0	0	0	0	0	0	0
5/7/2024 11:17	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.43	1	1	0	600	600	0
5/7/2024 11:18	43201	MVIL_T2	0	1	1	0	0.3	0.3	-0.28	-0.25	0	0	0	0	0	0
5/7/2024 11:18	43202	MVIL_T2	97	98	1	0.84	0.93	0.09	0	0	0	0	0	0	0	0
5/7/2024 11:19	47401	PENS_T1	4	10	6	1	0.58	-0.42	1.05	1.25	0	0	0	0	0	0
5/7/2024 11:19	42902	MIDD_T2	7	10	3	0.43	0.45	0.02	0	0	0	0	0	0	0	0
5/7/2024 11:19	42903	MIDD_T2	0	2	2	0	0.15	0.15	0.39	0.58	1	1	0	1200	1200	0
5/7/2024 11:19	47402	PENS_T1	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
5/7/2024 11:19	47403	PENS_T1	1	1	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
5/7/2024 11:20	47403	PENS_T1	1	1	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
5/7/2024 11:20	47401	PENS_T1	4	10	6	1	0.58	-0.42	1.05	1.25	0	0	0	0	0	0
5/7/2024 11:20	42903	MIDD_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/7/2024 11:20	47402	PENS_T1	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
5/7/2024 11:20	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.43	1	1	0	600	600	0
5/7/2024 11:20	42902	MIDD_T2	7	10	3	0.43	0.45	0.02	-0.53	-0.67	2	2	0	900	900	0
5/7/2024 11:22	64101	REFR_T1	0	0	0	0	0	0	-0.09	-0.04	0	0	0	0	0	0
5/7/2024 11:22	65604	OVIL_T2	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
5/7/2024 11:23	42701	AUGU_T1	1	1	0	0.8	1	0.2	0	0	2	2	0	1800	1800	0
5/7/2024 11:24	15001	BLMO_T1	5	7	2	0.24	0.44	0.2	0	0	0	0	0	0	0	0
5/7/2024 11:24	16302	ALPA_T2	0	1	1	0	0.1	0.1	2.63	2.8	0	0	0	0	0	0
5/7/2024 11:24	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.1	0	0	0	0	0	0
5/7/2024 11:24	15103	UPHA_T2	0	1	1	0	0.3	0.3	0.46	0.5	0	0	0	0	0	0
5/7/2024 11:25	43108	SMIL_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
5/7/2024 11:25	16302	ALPA_T2	0	1	1	0	0.1	0.1	0.88	0.93	0	0	0	0	0	0
5/7/2024 11:25	43101	SMIL_T2	2	0	-2	0.25	0	-0.25	-0.72	-0.73	0	0	0	0	0	0
5/7/2024 11:25	43103	SMIL_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
5/7/2024 11:25	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.2	0	0	0	0	0	0
5/7/2024 11:26	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.1	0	0	0	0	0	0
5/7/2024 11:26	15001	BLMO_T1	5	7	2	0.24	0.44	0.2	0	0	0	0	0	0	0	0
5/7/2024 11:27	42701	AUGU_T1	1	1	0	0.8	1	0.2	0	0	2	2	0	1800	1800	0
5/7/2024 11:27	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.1	0	0	0	0	0	0
5/7/2024 11:27	16302	ALPA_T2	0	1	1	0	0.1	0.1	0.88	0.93	0	0	0	0	0	0
5/7/2024 11:29	14203	EALL_T1	4	3	-1	0.6	0.6	0	0.09	0.13	1	1	0	1200	1200	0
5/7/2024 11:30	57306	MOAL_T2	0	0	0	0	0	0	-3.18	-3.14	1	1	0	1200	1200	0
5/7/2024 11:30	57304	MOAL_T2	19	24	5	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
5/7/2024 11:30	63602	LETO_T1	1	0	-1	0.3	0	-0.3	0.04	-0.01	0	0	0	0	0	0
5/7/2024 11:30	57303	MOAL_T2	1	1	0	7.5	7.1	-0.4	0	0	0	0	0	0	0	0
5/7/2024 11:30	63601	LETO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/7/2024 11:31	46803	HEPB_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/7/2024 11:31	46801	HEPB_T2	2	2	0	0.75	0.95	0.2	0.72	0.81	0	0	0	0	0	0
5/7/2024 11:32	51004	NHAR_T1	13	14	1	0.94	0.81	-0.13	-0.31	-0.25	0	0	0	0	0	0
5/7/2024 11:32	51002	NHAR_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/7/2024 11:32	10805	CHHI_T2	2	3	1	4.8	4.9	0.1	-0.72	-0.77	1	1	0	600	600	0
5/7/2024 11:33	10805	CHHI_T2	2	3	1	4.8	4.9	0.1	-0.72	-0.77	1	1	0	600	600	0
5/7/2024 11:34	10805	CHHI_T2	2	3	1	4.8	4.9	0.1	-0.72	-0.77	1	1	0	600	600	0
5/7/2024 11:35	14602	SWHI_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/7/2024 11:35	14603	SWHI_T1	9	10	1	0.63	0.58	-0.05	0	0	0	0	0	0	0	0
5/7/2024 11:35	14601	SWHI_T1	3	3	0	0.5	0.23	-0.27	-0.33	-0.34	0	0	0	0	0	0
5/7/2024 11:36	14603	SWHI_T1	9	10	1	0.63	0.58	-0.05	0	0	0	0	0	0	0	0
5/7/2024 11:36	14602	SWHI_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/7/2024 11:36	14601	SWHI_T1	3	3	0	0.5	0.23	-0.27	-0.33	-0.34	0	0	0	0	0	0
5/7/2024 11:37	45902	AUBU_T1	0	0	0	0	0	0	-0.43	-0.41	1	1	0	600	600	0
5/7/2024 11:38	67502	WEWI_T2	2	5	3	0.8	0.76	-0.04	-0.09	-0.13	0	0	0	0	0	0
5/7/2024 11:39	51102	CARL_T1	4	1	-3	0.18	0.3	0.12	0	0	0	0	0	0	0	0
5/7/2024 11:39	14602	SWHI_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/7/2024 11:39	14603	SWHI_T1	9	10	1	0.63	0.58	-0.05	-1.04	-0.97	1	1	0	600	600	0
5/7/2024 11:39	51108	CARL_T1	2	2	0	0.35	0.15	-0.2	-1.25	-1.32	1	1	0	600	600	0
5/7/2024 11:39	14601	SWHI_T1	3	3	0	0.5	0.23	-0.27	-0.34	-0.35	0	0	0	0	0	0
5/7/2024 11:40	51109	CARL_T1	0	0	0	0	0	0	-0.97	-0.99	1	1	0	1200	1200	0
5/7/2024 11:40	44301	BEAV_T2	3	15	12	0.33	0.47	0.14	1.11	0.78	2	2	0	1500	1500	0
5/7/2024 11:40	15103	UPHA_T2	0	1	1	0	0.3	0.3	0.5	0.48	0	0	0	0	0	0
5/7/2024 11:40	51102	CARL_T1	4	1	-3	0.18	0.3	0.12	0	0	0	0	0	0	0	0
5/7/2024 11:40	59102	WALK_T2	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
5/7/2024 11:40	51108	CARL_T1	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
5/7/2024 11:40	14601	SWHI_T1	3	3	0	0.5	0.23	-0.27	-0.34	-0.35	0	0	0	0	0	0
5/7/2024 11:40	45902	AUBU_T1	0	0	0	0	0	0	-0.41	-0.42	1	1	0	600	600	0
5/7/2024 11:40	59101	WALK_T2	0	0	0	0	0	0	2	1.87	0	0	0	0	0	0
5/7/2024 11:40	14602	SWHI_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/7/2024 11:40	14603	SWHI_T1	9	10	1	0.63	0.58	-0.05	0	0	0	0	0	0	0	0
5/7/2024 11:41	44301	BEAV_T2	3	15	12	0.33	0.47	0.14	2.21	1.55	4	4	0	3000	3000	0
5/7/2024 11:41	45902	AUBU_T1	0	0	0	0	0	0	-0.41	-0.42	1	1	0	600	600	0
5/7/2024 11:41	51108	CARL_T1	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
5/7/2024 11:41	51102	CARL_T1	4	1	-3	0.18	0.3	0.12	0	0	0	0	0	0	0	0
5/7/2024 11:41	60101	COCA_T1	4	6	2	0.43	0.42	-0.01	0.48	0.46	0	0	0	0	0	0
5/7/2024 11:41	51101	CARL_T1	0	0	0	0	0	0	-0.8	-0.8	1	1	0	600	600	0
5/7/2024 11:42	67501	WEWI_T1	22	8	-14	0.31	0.53	0.22	0	0	0	0	0	0	0	0
5/7/2024 11:42	67505	WEWI_T1	2	1	-1	0.15	0.5	0.35	0.08	0.07	1	1	0	900	900	0
5/7/2024 11:43	54501	ENOL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
5/7/2024 11:43	54504	ENOL_T2	1	1	0	0.3	0.9	0.6	-1	-0.94	1	1	0	600	600	0
5/7/2024 11:43	54505	ENOL_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/7/2024 11:43	54502	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
5/7/2024 11:44	60101	COCA_T1	4	6	2	0.43	0.42	-0.01	0.48	0.46	0	0	0	0	0	0
5/7/2024 11:44	61803	EELI_T2	0	0	0	0	0	0	1.18	1.1	0	0	0	0	0	0
5/7/2024 11:44	54505	ENOL_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/7/2024 11:44	54501	ENOL_T2	1	2	1	0.1	0.1	0	-0.51	-0.49	1	1	0	600	600	0
5/7/2024 11:44	40101	HUNT_T2	0	0	0	0	0	0	-0.37	-0.33	0	0	0	0	0	0
5/7/2024 11:44	54504	ENOL_T2	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
5/7/2024 11:44	54502	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
5/7/2024 11:45	45902	AUBU_T1	0	0	0	0	0	0	-0.41	-0.42	1	1	0	600	600	0
5/7/2024 11:46	25502	MADI_T1	2	2	0	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
5/7/2024 11:46	13503	MCMI_T2	4	3	-1	0.53	0.43	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/7/2024 11:46	46504	LOHA_T1	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/7/2024 11:46	25503	MADI_T1	26	87	61	0.15	0.16	0.01	-1.01	-1.02	0	0	0	0	0	0
5/7/2024 11:46	25501	MADI_T1	2	2	0	1.25	1.4	0.15	0	0	0	0	0	0	0	0
5/7/2024 11:46	46506	LOHA_T1	1	0	-1	0.2	0	-0.2	-0.4	-0.35	0	0	0	0	0	0
5/7/2024 11:47	58402	MORO_T1	0	0	0	0	0	0	-1.03	-1.02	3	3	0	2400	2400	0
5/7/2024 11:47	46801	HEPB_T2	2	2	0	0.95	0.7	-0.25	0.81	0.76	0	0	0	0	0	0
5/7/2024 11:47	46803	HEPB_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
5/7/2024 11:48	54203	PENN_T1	19	19	0	1.01	0.76	-0.25	0	0	0	0	0	0	0	0
5/7/2024 11:48	55003	NEWP_T2	13	14	1	0.66	0.64	-0.02	0.07	0.11	0	0	0	0	0	0
5/7/2024 11:48	54201	PENN_T1	11	11	0	0.87	0.86	-0.01	-0.76	-0.71	0	0	0	0	0	0
5/7/2024 11:49	52502	PROG_T2	0	0	0	0	0	0	-4.25	-3.56	7	7	0	6300	6300	0
5/7/2024 11:49	52501	PROG_T1	0	0	0	0	0	0	0.39	0.42	1	1	0	300	300	0
5/7/2024 11:49	52503	PROG_T2	0	0	0	0	0	0	-1.58	-1.49	3	3	0	2700	2700	0
5/7/2024 11:49	54201	PENN_T1	11	11	0	0.87	0.86	-0.01	0	0	0	0	0	0	0	0
5/7/2024 11:49	54206	PENN_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
5/7/2024 11:49	54203	PENN_T1	19	19	0	1.01	0.76	-0.25	0.4	0.48	0	0	0	0	0	0
5/7/2024 11:50	16401	MOPO_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/7/2024 11:50	51108	CARL_T1	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/7/2024 11:50	46301	ROHR_T1	209	245	36	0.29	0.32	0.03	0.2	0.25	0	0	0	0	0	0
5/7/2024 11:50	51102	CARL_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/7/2024 11:50	16402	MOPO_T1	2	3	1	0.15	0.4	0.25	0.37	0.02	0	0	0	0	0	0
5/7/2024 11:50	15101	UPHA_T1	0	1	1	0	0.4	0.4	0.18	0.19	0	0	0	0	0	0
5/7/2024 11:50	51109	CARL_T1	0	0	0	0	0	0	-0.97	-0.99	1	1	0	1200	1200	0
5/7/2024 11:50	52502	PROG_T2	0	0	0	0	0	0	-3.04	-2.54	5	5	0	4500	4500	0
5/7/2024 11:50	46302	ROHR_T1	14	15	1	1.19	1.08	-0.11	0.18	0.17	0	0	0	0	0	0
5/7/2024 11:50	15102	UPHA_T1	2	2	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
5/7/2024 11:51	52502	PROG_T2	0	0	0	0	0	0	-1.82	-1.53	3	3	0	2700	2700	0
5/7/2024 11:51	52503	PROG_T2	0	0	0	0	0	0	-0.53	-0.5	1	1	0	900	900	0
5/7/2024 11:51	57704	PAXT_T2	0	0	0	0	0	0	0.28	0.3	1	1	0	900	900	0
5/7/2024 11:52	58001	WCAR_T1	4	4	0	0.88	0.68	-0.2	0	0	0	0	0	0	0	0
5/7/2024 11:52	58003	WCAR_T1	4	1	-3	0.53	1	0.47	0.33	0.33	1	1	0	600	600	0
5/7/2024 11:52	67001	STHI_T2	4	4	0	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
5/7/2024 11:52	67002	STHI_T2	3	8	5	0.27	0.4	0.13	0.88	0.85	0	0	0	0	0	0
5/7/2024 11:52	52501	PROG_T1	0	0	0	0	0	0	0.39	0.42	1	1	0	300	300	0
5/7/2024 11:52	52503	PROG_T2	0	0	0	0	0	0	-0.53	-0.5	1	1	0	900	900	0
5/7/2024 11:52	64101	REFR_T1	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
5/7/2024 11:52	46302	ROHR_T1	14	15	1	1.19	1.08	-0.11	0	0	0	0	0	0	0	0
5/7/2024 11:52	52502	PROG_T2	0	0	0	0	0	0	-1.22	-1.02	2	2	0	1800	1800	0
5/7/2024 11:52	46301	ROHR_T1	209	245	36	0.29	0.32	0.03	0.2	0.25	0	0	0	0	0	0
5/7/2024 11:53	58001	WCAR_T1	4	4	0	0.88	0.68	-0.2	0	0	0	0	0	0	0	0
5/7/2024 11:53	67002	STHI_T2	3	8	5	0.27	0.4	0.13	0.85	0.88	0	0	0	0	0	0
5/7/2024 11:53	13701	SCHN_T2	5	5	0	0.28	0.3	0.02	0	0	0	0	0	0	0	0
5/7/2024 11:53	16302	ALPA_T2	0	0	0	0	0	0	0.93	0.9	0	0	0	0	0	0
5/7/2024 11:53	46302	ROHR_T1	14	15	1	1.19	1.08	-0.11	0.18	0.17	0	0	0	0	0	0
5/7/2024 11:53	67001	STHI_T2	4	4	0	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
5/7/2024 11:53	13704	SCHN_T2	1	1	0	0.6	0.6	0	-0.15	-0.11	0	0	0	0	0	0
5/7/2024 11:53	64101	REFR_T1	0	0	0	0	0	0	-0.16	-0.09	0	0	0	0	0	0
5/7/2024 11:53	52502	PROG_T2	0	0	0	0	0	0	-0.51	-0.49	1	1	0	900	900	0
5/7/2024 11:53	58003	WCAR_T1	4	1	-3	0.53	1	0.47	0.33	0.36	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/7/2024 11:53	15702	TANN_T2	1	1	0	0.1	0.2	0.1	0.53	0.55	0	0	0	0	0	0
5/7/2024 11:53	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
5/7/2024 11:53	46301	ROHR_T1	209	245	36	0.29	0.32	0.03	0	0	0	0	0	0	0	0
5/7/2024 11:53	52503	PROG_T2	0	0	0	0	0	0	-0.5	-0.39	1	1	0	900	900	0
5/7/2024 11:53	52501	PROG_T1	0	0	0	0	0	0	0.84	0.81	2	2	0	600	600	0
5/7/2024 11:54	52503	PROG_T2	0	0	0	0	0	0	-0.99	-0.78	2	2	0	1800	1800	0
5/7/2024 11:54	15702	TANN_T2	1	1	0	0.1	0.2	0.1	0.55	0.57	0	0	0	0	0	0
5/7/2024 11:54	52502	PROG_T2	0	0	0	0	0	0	-0.51	-0.49	1	1	0	900	900	0
5/7/2024 11:54	46301	ROHR_T1	209	245	36	0.29	0.32	0.03	0.25	0.21	0	0	0	0	0	0
5/7/2024 11:54	43101	SMIL_T2	0	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0
5/7/2024 11:54	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
5/7/2024 11:54	43103	SMIL_T2	1	10	9	0.6	0.42	-0.18	0	0	0	0	0	0	0	0
5/7/2024 11:54	43102	SMIL_T2	0	0	0	0	0	0	-0.74	-0.72	1	1	0	600	600	0
5/7/2024 11:54	43104	SMIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/7/2024 11:54	43108	SMIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/7/2024 11:54	46302	ROHR_T1	14	15	1	1.19	1.08	-0.11	0	0	0	0	0	0	0	0
5/7/2024 11:55	52502	PROG_T2	0	0	0	0	0	0	-1.02	-0.99	2	2	0	1800	1800	0
5/7/2024 11:55	15103	UPHA_T2	1	2	1	0.3	0.75	0.45	0.48	0.51	0	0	0	0	0	0
5/7/2024 11:56	64101	REFR_T1	0	0	0	0	0	0	-0.16	-0.09	0	0	0	0	0	0
5/7/2024 11:58	52503	PROG_T2	0	0	0	0	0	0	-0.5	-0.39	1	1	0	900	900	0
5/7/2024 12:00	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.05	0	0	0	0	0	0
5/7/2024 12:01	14404	SSLA_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
5/7/2024 12:01	14403	SSLA_T1	3	1	-2	0.53	0.1	-0.43	0.68	0.64	0	0	0	0	0	0
5/7/2024 12:01	15001	BLMO_T1	7	8	1	0.53	0.68	0.15	0	0	0	0	0	0	0	0
5/7/2024 12:01	14402	SSLA_T1	2	1	-1	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
5/7/2024 12:02	14404	SSLA_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
5/7/2024 12:02	15001	BLMO_T1	7	8	1	0.53	0.68	0.15	0	0	0	0	0	0	0	0
5/7/2024 12:02	59001	MIFF_T1	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
5/7/2024 12:02	25501	MADI_T1	2	2	0	1.4	0.95	-0.45	0	0	0	0	0	0	0	0
5/7/2024 12:02	25502	MADI_T1	2	2	0	0.15	0.8	0.65	0	0	0	0	0	0	0	0
5/7/2024 12:02	14403	SSLA_T1	3	1	-2	0.53	0.1	-0.43	0.68	0.64	0	0	0	0	0	0
5/7/2024 12:02	59002	MIFF_T1	5	6	1	0.2	0.22	0.02	0	0	0	0	0	0	0	0
5/7/2024 12:02	25503	MADI_T1	50	117	67	0.13	0.18	0.05	-1.02	-1.04	0	0	0	0	0	0
5/7/2024 12:02	14402	SSLA_T1	2	1	-1	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
5/7/2024 12:02	59003	MIFF_T1	1	1	0	0.4	0.3	-0.1	-0.34	-0.35	0	0	0	0	0	0
5/7/2024 12:03	59001	MIFF_T1	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
5/7/2024 12:03	59002	MIFF_T1	5	6	1	0.2	0.22	0.02	0	0	0	0	0	0	0	0
5/7/2024 12:03	59003	MIFF_T1	1	1	0	0.4	0.3	-0.1	-0.34	-0.35	0	0	0	0	0	0
5/7/2024 12:06	43104	SMIL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/7/2024 12:06	67401	WAKE_T2	2	3	1	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
5/7/2024 12:06	43103	SMIL_T2	4	13	9	0.4	0.42	0.02	-0.84	-0.82	0	0	0	0	0	0
5/7/2024 12:06	67402	WAKE_T2	0	0	0	0	0	0	0.51	0.51	1	1	0	600	600	0
5/7/2024 12:06	43101	SMIL_T2	2	3	1	0.8	1.27	0.47	0	0	0	0	0	0	0	0
5/7/2024 12:07	65603	QVIL_T2	0	0	0	0	0	0	-0.32	-0.58	0	0	0	0	0	0
5/7/2024 12:08	43103	SMIL_T2	4	13	9	0.4	0.42	0.02	0	0	0	0	0	0	0	0
5/7/2024 12:08	43104	SMIL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/7/2024 12:08	43102	SMIL_T2	0	0	0	0	0	0	-0.74	-0.72	1	1	0	600	600	0
5/7/2024 12:08	43101	SMIL_T2	2	3	1	0.8	1.27	0.47	0	0	0	0	0	0	0	0
5/7/2024 12:12	57006	WHHI_T2	0	1	1	0	0.3	0.3	0.65	0.7	1	1	0	600	600	0
5/7/2024 12:12	41502	FAIR_T2	0	0	0	0	0	0	-0.66	0	0	0	0	0	0	0
5/7/2024 12:12	57003	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/7/2024 12:12	57004	WHHI_T2	1	1	0	3.3	0	-3.3	0	0	0	0	0	0	0	0
5/7/2024 12:13	14204	EALL_T2	1	1	0	0.2	0.5	0.3	-0.38	0	0	0	0	0	0	0
5/7/2024 12:14	60902	DONG_T2	0	0	0	0	0	0	1.08	0	0	0	0	0	0	0
5/7/2024 12:14	46003	BERW_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/7/2024 12:14	46004	BERW_T2	5	1	-4	0.44	0.1	-0.34	0.19	0	0	0	0	0	0	0
5/7/2024 12:14	40101	HUNT_T2	0	0	0	0	0	0	-0.35	0	0	0	0	0	0	0
5/7/2024 12:14	60901	DONG_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 12:15	64802	MONE_T2	4	7	3	0.63	0.41	-0.22	0.22	0	0	0	0	0	0	0
5/7/2024 12:15	64801	MONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/7/2024 12:15	23902	EFMO_T2	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
5/7/2024 12:15	40101	HUNT_T2	0	0	0	0	0	0	-0.35	0	0	0	0	0	0	0
5/7/2024 12:15	57303	MOAL_T2	1	1	0	7.4	7.3	-0.1	0	0	0	0	0	0	0	0
5/7/2024 12:15	57304	MOAL_T2	6	12	6	0.18	0.22	0.04	-0.54	0	0	0	0	0	0	0
5/7/2024 12:15	23901	EFMO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 12:15	57302	MOAL_T2	0	0	0	0	0	0	-1.39	0	1	1	0	1200	1200	0
5/7/2024 12:16	28801	LAKE_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/7/2024 12:16	65501	MOJO_T1	0	0	0	0	0	0	-1.89	0	2	2	0	1800	1800	0
5/7/2024 12:16	28805	LAKE_T1	0	0	0	0	0	0	-0.23	0	0	0	0	0	0	0
5/7/2024 12:16	58401	MORO_T1	0	0	0	0	0	0	-0.54	0	1	1	0	600	600	0
5/7/2024 12:17	40101	HUNT_T2	0	0	0	0	0	0	-0.35	0	0	0	0	0	0	0
5/7/2024 12:17	63801	HEMP_T1	7	10	3	0.26	0.4	0.14	0	0	0	0	0	0	0	0
5/7/2024 12:17	63804	HEMP_T1	1	1	0	6.5	6.4	-0.1	-0.14	0	0	0	0	0	0	0
5/7/2024 12:17	26402	INOR_T1	4	4	0	0.63	0.65	0.02	0	0	0	0	0	0	0	0
5/7/2024 12:17	63803	HEMP_T1	4	4	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
5/7/2024 12:17	57704	PAXT_T2	0	0	0	0	0	0	0.29	0	1	1	0	900	900	0
5/7/2024 12:17	26401	INOR_T1	4	4	0	1.18	0.9	-0.28	0.37	0	0	0	0	0	0	0
5/7/2024 12:18	57304	MOAL_T2	6	12	6	0.18	0.22	0.04	-0.54	0	0	0	0	0	0	0
5/7/2024 12:18	57303	MOAL_T2	1	1	0	7.4	7.3	-0.1	0	0	0	0	0	0	0	0
5/7/2024 12:19	67201	TEHI_T1	0	1	1	0	0.3	0.3	-0.22	0	2	2	0	1500	1500	0
5/7/2024 12:19	67203	TEHI_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/7/2024 12:20	10801	CHHI_T1	6	9	3	0.72	0.61	-0.11	-0.51	0	1	1	0	900	900	0
5/7/2024 12:20	42903	MIDD_T2	3	2	-1	1.23	1.05	-0.18	0	0	0	0	0	0	0	0
5/7/2024 12:20	48303	ORWI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/7/2024 12:20	48302	ORWI_T2	2	2	0	0.75	0.95	0.2	0.07	0	0	0	0	0	0	0
5/7/2024 12:20	42902	MIDD_T2	22	7	-15	0.63	0.47	-0.16	-0.41	0	1	1	0	600	600	0
5/7/2024 12:21	57303	MOAL_T2	1	1	0	7.4	7.3	-0.1	0	0	0	0	0	0	0	0
5/7/2024 12:21	42903	MIDD_T2	3	2	-1	1.23	1.05	-0.18	0	0	0	0	0	0	0	0
5/7/2024 12:21	57304	MOAL_T2	6	12	6	0.18	0.22	0.04	-0.54	0	0	0	0	0	0	0
5/7/2024 12:21	42802	SELI_T1	2	0	-2	0.3	0	-0.3	-0.8	0	0	0	0	0	0	0
5/7/2024 12:21	42902	MIDD_T2	22	7	-15	0.63	0.47	-0.16	-0.82	0	2	2	0	1200	1200	0
5/7/2024 12:22	54202	PENN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 12:22	54206	PENN_T2	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
5/7/2024 12:22	42201	SHEN_T2	0	1	1	0	0.3	0.3	0.04	0	1	1	0	600	600	0
5/7/2024 12:25	41602	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 12:25	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 12:27	54502	ENOL_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
5/7/2024 12:27	41801	GOCI_T2	153	209	56	0.31	0.42	0.11	0	0	0	0	0	0	0	0
5/7/2024 12:27	54505	ENOL_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
5/7/2024 12:27	54504	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/7/2024 12:27	24101	EHAZ_T1	9	0	-9	0.27	0	-0.27	0	0	0	0	0	0	0	0
5/7/2024 12:27	24104	EHAZ_T1	0	0	0	0	0	0	0	-0.79	1	1	0	1200	1200	0
5/7/2024 12:27	67401	WAKE_T2	3	2	-1	0.3	0.15	-0.15	-0.97	-0.95	0	0	0	0	0	0
5/7/2024 12:27	54506	ENOL_T2	0	0	0	0	0	0	0	-0.43	1	1	0	600	600	0
5/7/2024 12:27	24105	EHAZ_T1	4	4	0	6.4	6.55	0.15	0	0	0	0	0	0	0	0
5/7/2024 12:28	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 12:28	24101	EHAZ_T1	9	0	-9	0.27	0	-0.27	0	0	0	0	0	0	0	0
5/7/2024 12:28	24102	EHAZ_T1	0	0	0	0	0	0	0	0.46	0	0	0	0	0	0
5/7/2024 12:28	40101	HUNT_T2	0	0	0	0	0	0	0	-0.44	0	0	0	0	0	0
5/7/2024 12:28	24105	EHAZ_T1	4	4	0	6.4	6.55	0.15	0	0	0	0	0	0	0	0
5/7/2024 12:28	41602	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 12:29	40101	HUNT_T2	0	0	0	0	0	0	0	-0.44	0	0	0	0	0	0
5/7/2024 12:29	21901	HUMB_T1	0	0	0	0	0	0	0	-0.97	0	0	0	0	0	0
5/7/2024 12:30	54506	ENOL_T2	0	0	0	0	0	0	0	-0.43	1	1	0	600	600	0
5/7/2024 12:30	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/7/2024 12:30	54504	ENOL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/7/2024 12:30	52001	LING_T1	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
5/7/2024 12:30	54505	ENOL_T2	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
5/7/2024 12:30	41801	GOCI_T2	205	136	-69	0.43	0.32	-0.11	0	0	0	0	0	0	0	0
5/7/2024 12:31	52004	LING_T2	5	5	0	0.34	0.76	0.42	0.41	0.43	0	0	0	0	0	0
5/7/2024 12:31	13503	MCMI_T2	3	12	9	0.5	0.56	0.06	0	-0.01	0	0	0	0	0	0
5/7/2024 12:32	13503	MCMI_T2	3	12	9	0.5	0.56	0.06	0	-0.01	0	0	0	0	0	0
5/7/2024 12:33	24201	PROV_T3	7	7	0	1.07	1.13	0.06	-1.34	-1.3	1	1	0	1200	1200	0
5/7/2024 12:33	24204	PROV_T3	1	1	0	6.2	6.4	0.2	0	0	0	0	0	0	0	0
5/7/2024 12:33	63602	LETO_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/7/2024 12:33	63601	LETO_T1	0	0	0	0	0	0	0	0.66	2	2	0	2100	2100	0
5/7/2024 12:33	61302	EARL_T1	0	0	0	0	0	0	0	0.24	3	3	0	2700	2700	0
5/7/2024 12:34	58402	MORO_T1	0	0	0	0	0	0	0	-1	3	3	0	2400	2400	0
5/7/2024 12:37	43104	SMIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/7/2024 12:37	43101	SMIL_T2	3	3	0	1.23	1.2	-0.03	0	0	0	0	0	0	0	0
5/7/2024 12:37	43102	SMIL_T2	0	0	0	0	0	0	0	-0.68	1	1	0	600	600	0
5/7/2024 12:37	13606	RICH_T2	1	1	0	7.8	7.5	-0.3	1.43	1.42	0	0	0	0	0	0
5/7/2024 12:37	43103	SMIL_T2	13	10	-3	0.38	0.4	0.02	0	0	0	0	0	0	0	0
5/7/2024 12:38	45901	AUBU_T1	0	0	0	0	0	0	2.06	1.95	0	0	0	0	0	0
5/7/2024 12:38	45902	AUBU_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/7/2024 12:38	45602	WOOL_T1	1	1	0	0.4	0.7	0.3	0	0.59	0	0	0	0	0	0
5/7/2024 12:39	48302	ORWI_T2	2	2	0	0.95	0.85	-0.1	0	0	0	0	0	0	0	0
5/7/2024 12:39	45902	AUBU_T1	0	1	1	0	0.7	0.7	-1.9	-1.84	4	4	0	2400	2400	0
5/7/2024 12:39	48303	ORWI_T2	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
5/7/2024 12:39	45602	WOOL_T1	1	1	0	0.4	0.7	0.3	0.59	0.59	0	0	0	0	0	0
5/7/2024 12:40	14602	SWHI_T1	2	1	-1	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
5/7/2024 12:40	14603	SWHI_T1	8	8	0	0.63	0.59	-0.04	0	0	0	0	0	0	0	0
5/7/2024 12:40	14601	SWHI_T1	4	1	-3	0.33	0.3	-0.03	-0.32	-0.31	0	0	0	0	0	0
5/7/2024 12:42	67702	WERN_T2	0	1	1	0	0.9	0.9	-0.02	-0.02	0	0	0	0	0	0
5/7/2024 12:42	67703	WERN_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/7/2024 12:43	23901	EFMO_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/7/2024 12:43	44301	BEAC_T2	1	5	4	0.2	0.6	0.4	0.9	0.73	2	2	0	1500	1500	0
5/7/2024 12:43	67702	WERN_T2	0	1	1	0	0.9	0.9	-0.01	-0.01	0	0	0	0	0	0
5/7/2024 12:43	67703	WERN_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/7/2024 12:43	23902	EFMO_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/7/2024 12:43	45902	AUBU_T1	0	1	1	0	0.7	0.7	-0.47	-0.46	1	1	0	600	600	0
5/7/2024 12:44	45902	AUBU_T1	0	1	1	0	0.7	0.7	-0.95	-0.92	2	2	0	1200	1200	0
5/7/2024 12:44	67702	WERN_T2	0	1	1	0	0.9	0.9	-0.01	-0.01	0	0	0	0	0	0
5/7/2024 12:44	67703	WERN_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/7/2024 12:45	41801	GOCI_T2	136	35	-101	0.32	0.29	-0.03	0	0	0	0	0	0	0	0
5/7/2024 12:46	41801	GOCI_T2	136	35	-101	0.32	0.29	-0.03	0	0	0	0	0	0	0	0
5/7/2024 12:49	42802	SELI_T1	0	1	1	0	0.2	0.2	-0.8	-0.73	0	0	0	0	0	0
5/7/2024 15:41	46001	BERW_T1	0	3	3	0	0.23	0.23	0.19	-0.03	0	0	0	0	0	0
5/7/2024 15:49	48902	FOSP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 15:52	16203	POFA_T2	7	6	-1	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
5/7/2024 15:52	16201	POFA_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/7/2024 15:57	20401	ASHF_T2	5	4	-1	0.38	0.18	-0.2	0	0	0	0	0	0	0	0
5/7/2024 15:57	20403	ASHF_T2	28	9	-19	0.31	0.51	0.2	0.23	0.3	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/7/2024 15:57	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 16:28	29402	BELT_T1	2	2	0	4.35	4.3	-0.05	0	0	0	0	0	0	0	0
5/7/2024 16:28	29401	BELT_T1	4	65	61	0.2	0.27	0.07	0	0	1	1	0	900	900	0
5/7/2024 16:39	56802	BENV_T2	156	220	64	0.24	0.26	0.02	-0.98	-1.2	0	0	0	0	0	0
5/7/2024 16:40	66502	SMAN_T2	0	0	0	0	0	0	0.25	0.12	0	0	0	0	0	0
5/7/2024 16:40	56802	BENV_T2	156	220	64	0.24	0.26	0.02	-0.33	-0.4	0	0	0	0	0	0
5/7/2024 16:40	16301	ALPA_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
5/7/2024 16:41	56802	BENV_T2	156	220	64	0.24	0.26	0.02	-0.65	-0.8	0	0	0	0	0	0
5/7/2024 16:42	56802	BENV_T2	156	220	64	0.24	0.26	0.02	-0.33	-0.4	0	0	0	0	0	0
5/7/2024 16:44	10705	CATA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/7/2024 16:44	10707	CATA_T2	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
5/7/2024 16:49	10805	CHHI_T2	1	1	0	8.5	8.3	-0.2	-1.02	-1.02	1	1	0	600	600	0
5/7/2024 16:50	26002	WDAM_T1	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
5/7/2024 16:50	26001	WDAM_T1	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
5/7/2024 16:53	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
5/7/2024 16:56	56802	BENV_T2	163	339	176	0.23	0.41	0.18	-0.4	-0.45	0	0	0	0	0	0
5/7/2024 16:57	63304	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 16:57	63305	GREE_T1	1	1	0	0.2	0.3	0.1	-1.9	-1.96	1	1	0	900	900	0
5/7/2024 16:58	56802	BENV_T2	163	339	176	0.23	0.41	0.18	-0.4	-0.45	0	0	0	0	0	0
5/7/2024 17:01	63304	GREE_T1	0	0	0	0	0	0	-1.14	-1.25	0	0	0	0	0	0
5/7/2024 17:01	63305	GREE_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/7/2024 17:02	45402	WBLO_T2	1	1	0	1	0.6	-0.4	-0.57	-0.55	0	0	0	0	0	0
5/7/2024 17:04	59003	MIFF_T1	0	1	1	0	0.1	0.1	1.97	0.03	0	0	0	0	0	0
5/7/2024 17:04	59001	MIFF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/7/2024 17:04	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
5/7/2024 17:04	59002	MIFF_T1	6	4	-2	0.43	0.48	0.05	0	0	0	0	0	0	0	0
5/7/2024 17:06	49803	UNIV_T1	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
5/7/2024 17:06	49804	UNIV_T1	0	1	1	0	0	0	0.93	0.85	0	0	0	0	0	0
5/7/2024 17:11	62104	ELAN_T1	0	2	2	0	0	0	0.98	0.92	4	4	0	3000	3000	0
5/7/2024 17:15	40101	HUNT_T2	0	0	0	0	0	0	-0.76	-0.42	0	0	0	0	0	0
5/7/2024 17:22	54001	SDLE_T1	8	8	0	1.2	1.18	-0.02	0	0	0	0	0	0	0	0
5/7/2024 17:24	27504	WEIS_T1	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
5/7/2024 17:25	24801	VALM_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
5/7/2024 17:26	24702	FLND_T2	2	1	-1	0.45	0.3	-0.15	0.02	-0.07	1	1	0	1200	1200	0
5/7/2024 17:28	52502	PROG_T2	0	0	0	0	0	0	-0.24	-0.25	1	1	0	900	900	0
5/7/2024 17:32	24702	FLND_T2	1	0	-1	0.3	0	-0.3	0.02	-0.07	1	1	0	1200	1200	0
5/7/2024 17:34	66903	SHIL_T2	1	1	0	0.5	1.4	0.9	0	0	0	0	0	0	0	0
5/7/2024 17:34	66902	SHIL_T2	0	0	0	0	0	0	-1.39	-1.4	0	0	0	0	0	0
5/7/2024 17:37	66903	SHIL_T2	1	1	0	0.5	1.4	0.9	0	0	0	0	0	0	0	0
5/7/2024 17:37	66902	SHIL_T2	0	0	0	0	0	0	-1.39	-1.4	0	0	0	0	0	0
5/7/2024 17:37	58402	MORO_T1	0	1	1	0	0	0	-0.94	-0.9	3	3	0	2400	2400	0
5/7/2024 17:37	40101	HUNT_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
5/7/2024 17:37	67702	WERN_T2	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
5/7/2024 17:37	67002	STHI_T2	0	0	0	0	0	0	0.98	0.95	0	0	0	0	0	0
5/7/2024 17:37	67204	TEHI_T2	0	0	0	0	0	0	-0.04	-0.01	0	0	0	0	0	0
5/7/2024 17:37	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 17:38	13303	ORVI_T1	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0
5/7/2024 17:38	45501	DERR_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/7/2024 17:38	45502	DERR_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
5/7/2024 17:40	66903	SHIL_T2	1	1	0	0.5	1.4	0.9	0	0	0	0	0	0	0	0
5/7/2024 17:40	66902	SHIL_T2	0	0	0	0	0	0	-1.4	-1.39	0	0	0	0	0	0
5/7/2024 17:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 17:42	40502	CRES_T2	0	6	6	0	0.15	0.15	-0.74	-0.78	0	0	0	0	0	0
5/7/2024 17:45	23201	HIRU_T2	15	39	24	0.13	0.15	0.02	0	0	0	0	0	0	0	0
5/7/2024 17:45	23202	HIRU_T2	1	8	7	0.1	0.18	0.08	0	0	0	0	0	0	0	0
5/7/2024 17:45	23203	HIRU_T2	2	26	24	0.1	0.13	0.03	0.16	0.16	0	0	0	0	0	0
5/7/2024 17:46	59002	MIFF_T1	0	6	6	0	0.47	0.47	0	0	0	0	0	0	0	0
5/7/2024 17:46	59003	MIFF_T1	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
5/7/2024 17:47	46801	HEPB_T2	2	3	1	0.35	0.43	0.08	0	0	0	0	0	0	0	0
5/7/2024 17:47	46803	HEPB_T2	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
5/7/2024 17:50	64904	MILL_T1	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
5/7/2024 17:51	65003	NEFF_T2	3	3	0	0.13	0.2	0.07	0	0	0	0	0	0	0	0
5/7/2024 17:51	65001	NEFF_T2	0	0	0	0	0	0	-0.22	-0.32	1	1	0	1200	1200	0
5/7/2024 17:53	67803	WLAN_T1	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
5/7/2024 17:56	60101	COCA_T1	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
5/7/2024 17:57	40802	EXCH_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
5/7/2024 17:58	40802	EXCH_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
5/7/2024 18:10	22003	BOHE_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
5/7/2024 18:10	22002	BOHE_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
5/7/2024 18:11	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/7/2024 18:11	45501	DERR_T2	1	1	0	0.3	0.1	-0.2	-0.27	-0.29	2	2	0	1800	1800	0
5/7/2024 18:11	11102	EGYP_T1	0	0	0	0	0	0	0	-0.05	0	0	0	0	0	0
5/7/2024 18:11	11104	EGYP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/7/2024 18:12	11104	EGYP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/7/2024 18:12	11102	EGYP_T1	0	0	0	0	0	0	0	-0.05	0	0	0	0	0	0
5/7/2024 18:14	14603	SWHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/7/2024 18:14	63305	GREE_T1	1	4	3	0.2	0.18	-0.02	-1.81	-1.86	1	1	0	900	900	0
5/7/2024 18:14	14601	SWHI_T1	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
5/7/2024 18:15	20603	GRWO_T2	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
5/7/2024 18:16	63402	HONY_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
5/7/2024 18:16	63403	HONY_T2	0	0	0	0	0	0	-0.42	-0.48	1	1	0	600	600	0
5/7/2024 18:18	52502	PROG_T2	0	0	0	0	0	0	-0.26	-0.27	1	1	0	900	900	0
5/7/2024 18:19	64904	MILL_T1	0	0	0	0	0	0	-0.07	-0.01	0	0	0	0	0	0
5/7/2024 18:21	24801	VALM_T1	0	0	0	0	0	0	-0.28	-0.22	0	0	0	0	0	0
5/7/2024 18:21	67204	TEHI_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
5/7/2024 18:27	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/7/2024 18:30	57303	MOAL_T2	1	1	0	7.9	7.8	-0.1	0	0	0	0	0	0	0	0
5/7/2024 18:30	57306	MOAL_T2	0	0	0	0	0	0	-2.94	-2.95	1	1	0	1200	1200	0
5/7/2024 18:30	26703	HEML_T1	0	0	0	0	0	0	-0.95	-0.94	1	1	0	600	600	0
5/7/2024 18:39	58003	WCAR_T1	1	1	0	1.8	1.4	-0.4	0.82	0.8	1	0	-1	600	0	-600
5/7/2024 18:39	58001	WCAR_T1	4	4	0	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
5/7/2024 18:40	29402	BELT_T1	1	1	0	8	7.8	-0.2	0	0	0	0	0	0	0	0
5/7/2024 18:40	29401	BELT_T1	59	68	9	0.24	0.27	0.03	0	0	1	1	0	900	900	0
5/7/2024 18:52	13303	ORVI_T1	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
5/7/2024 19:01	63305	GREE_T1	3	12	9	0.3	0.27	-0.03	-1.95	-1.91	1	1	0	900	900	0
5/7/2024 19:06	59101	WALK_T2	0	0	0	0	0	0	0.92	1.1	1	1	0	600	600	0
5/7/2024 19:06	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/7/2024 19:42	24103	EHAZ_T1	0	0	0	0	0	0	-0.52	-0.59	0	0	0	0	0	0
5/7/2024 19:42	24102	EHAZ_T1	3	3	0	1.27	1.2	-0.07	0	0	0	0	0	0	0	0
5/7/2024 19:42	24105	EHAZ_T1	4	4	0	6.23	6.03	-0.2	0	0	0	0	0	0	0	0
5/7/2024 19:58	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 20:14	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/7/2024 20:17	67703	WERN_T2	0	0	0	0	0	0	0.03	0	1	1	0	900	900	0
5/7/2024 20:19	47001	HUGH_T2	0	0	0	0	0	0	-0.6	-0.56	0	0	0	0	0	0
5/7/2024 20:24	57403	SPAN_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
5/7/2024 20:24	57401	SPAN_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/7/2024 20:25	67605	WARW_T1	1	3	2	0.2	0.13	-0.07	-0.9	-0.85	0	0	0	0	0	0
5/7/2024 20:27	67605	WARW_T1	1	3	2	0.2	0.13	-0.07	-0.9	-0.85	0	0	0	0	0	0
5/7/2024 20:33	41304	FISH_T2	1	1	0	0	0	0	0.37	0.33	0	0	0	0	0	0
5/7/2024 20:33	41302	FISH_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/7/2024 20:35	41302	FISH_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/7/2024 20:35	41304	FISH_T2	1	1	0	0	0	0	0.37	0.33	0	0	0	0	0	0
5/7/2024 20:39	56501	ROCK_T2	2	2	0	0.2	0.4	0.2	-0.01	-0.01	0	0	0	0	0	0
5/7/2024 20:40	67703	WERN_T2	0	0	0	0	0	0	0	-0.04	1	1	0	900	900	0
5/7/2024 20:41	56501	ROCK_T2	2	2	0	0.2	0.4	0.2	-0.02	-0.02	0	0	0	0	0	0
5/7/2024 20:47	67703	WERN_T2	0	0	0	0	0	0	0	-0.04	1	1	0	900	900	0
5/7/2024 20:57	26002	WDAM_T1	32	13	-19	0.18	0.23	0.05	0	0	0	0	0	0	0	0
5/7/2024 20:57	26001	WDAM_T1	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
5/7/2024 21:00	60101	COCA_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
5/7/2024 21:01	44301	BEAV_T2	0	0	0	0	0	0	-0.06	0.19	1	1	0	600	600	0
5/7/2024 21:02	60101	COCA_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
5/7/2024 21:05	57401	SPAN_T1	0	0	0	0	0	0	-0.61	-0.56	1	1	0	600	600	0
5/7/2024 21:07	57401	SPAN_T1	0	0	0	0	0	0	-1.83	-1.69	3	3	0	1800	1800	0
5/7/2024 21:10	57401	SPAN_T1	0	0	0	0	0	0	-0.56	-0.62	1	1	0	600	600	0
5/7/2024 21:11	45902	AUBU_T1	0	0	0	0	0	0	-0.93	-1	1	1	0	600	600	0
5/7/2024 21:12	57401	SPAN_T1	0	0	0	0	0	0	-0.56	-0.62	1	1	0	600	600	0
5/7/2024 21:20	65402	MARI_T1	0	0	0	0	0	0	-0.04	-0.09	0	0	0	0	0	0
5/7/2024 21:23	43202	MVIL_T2	51	56	5	0.31	0.44	0.13	0	0	0	0	0	0	0	0
5/7/2024 21:23	43201	MVIL_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
5/7/2024 21:28	42701	AUGU_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
5/7/2024 21:37	10805	CHHI_T2	1	1	0	7.7	7.7	0	-1.16	-1.19	1	1	0	600	600	0
5/7/2024 21:39	10805	CHHI_T2	1	1	0	7.7	7.7	0	-1.19	-1.21	1	1	0	600	600	0
5/7/2024 21:41	67502	WEWI_T2	0	0	0	0	0	0	-1.27	-1.26	1	1	0	900	900	0
5/7/2024 21:44	25404	LAHA_T2	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0	0
5/7/2024 21:44	25402	LAHA_T2	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
5/7/2024 21:46	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/7/2024 21:46	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/7/2024 21:46	54504	ENOL_T2	0	0	0	0	0	0	-0.85	-0.87	1	1	0	600	600	0
5/7/2024 21:46	55002	NEWP_T1	6	5	-1	0.68	1	0.32	-0.22	-0.24	0	0	0	0	0	0
5/7/2024 21:47	55003	NEWP_T2	8	9	1	0.31	0.37	0.06	0.02	0.04	0	0	0	0	0	0
5/7/2024 21:48	55002	NEWP_T1	6	5	-1	0.68	1	0.32	0.44	0.47	0	0	0	0	0	0
5/7/2024 21:48	65001	NEFF_T2	0	16	16	0	0.12	0.12	-0.57	-0.54	1	1	0	1200	1200	0
5/7/2024 21:48	65003	NEFF_T2	52	93	41	0.16	0.23	0.07	0	0	0	0	0	0	0	0
5/7/2024 21:50	57704	PAXT_T2	0	0	0	0	0	0	0.21	0.17	1	1	0	900	900	0
5/7/2024 21:51	56802	BENV_T2	874	931	57	0.63	0.76	0.13	-0.57	-0.62	0	0	0	0	0	0
5/7/2024 21:53	55003	NEWP_T2	8	9	1	0.31	0.37	0.06	0.04	-0.11	0	0	0	0	0	0
5/7/2024 21:53	16402	MOPO_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
5/7/2024 21:53	52502	PROG_T2	0	0	0	0	0	0	-1.67	-1.91	4	4	0	3600	3600	0
5/7/2024 21:53	16302	ALPA_T2	0	0	0	0	0	0	2.67	2.44	0	0	0	0	0	0
5/7/2024 21:54	52502	PROG_T2	0	0	0	0	0	0	-1.67	-1.91	4	4	0	3600	3600	0
5/7/2024 21:54	63305	GREE_T1	0	1	1	0	0	0	-1.1	-1.11	0	0	0	0	0	0
5/7/2024 21:55	26703	HEML_T1	0	0	0	0	0	0	-0.97	-0.98	1	1	0	600	600	0
5/7/2024 21:55	52502	PROG_T2	0	0	0	0	0	0	-1.25	-1.44	3	3	0	2700	2700	0
5/7/2024 21:55	16302	ALPA_T2	0	0	0	0	0	0	0.81	0.79	0	0	0	0	0	0
5/7/2024 21:56	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
5/7/2024 21:56	16302	ALPA_T2	0	0	0	0	0	0	0.81	0.79	0	0	0	0	0	0
5/7/2024 21:56	67002	STHI_T2	0	0	0	0	0	0	0.94	0.85	0	0	0	0	0	0
5/7/2024 21:57	46301	ROHR_T1	66	132	66	0.17	0.25	0.08	0	0	0	0	0	0	0	0
5/7/2024 21:57	66902	SHIL_T2	0	0	0	0	0	0	-1.53	-1.6	0	0	0	0	0	0
5/7/2024 21:57	51004	NHAR_T1	4	10	6	1.63	0.84	-0.79	-0.3	-0.28	0	0	0	0	0	0
5/7/2024 21:57	51003	NHAR_T1	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
5/7/2024 21:57	51002	NHAR_T1	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
5/7/2024 21:57	46302	ROHR_T1	4	5	1	2.33	2.06	-0.27	0.16	0.14	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/7/2024 21:57	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
5/7/2024 21:58	15103	UPHA_T2	0	0	0	0	0	0	0.62	0.57	0	0	0	0	0	0
5/7/2024 21:58	67602	WARW_T2	0	0	0	0	0	0	0.18	-0.13	1	2	1	1200	1500	300
5/7/2024 21:58	67002	STHI_T2	0	0	0	0	0	0	0.94	0.85	0	0	0	0	0	0
5/7/2024 21:58	52502	PROG_T2	0	0	0	0	0	0	-0.42	-0.48	1	1	0	900	900	0
5/7/2024 21:58	60101	COCA_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
5/7/2024 21:58	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/7/2024 21:59	67002	STHI_T2	0	0	0	0	0	0	0.94	0.85	0	0	0	0	0	0
5/7/2024 21:59	52502	PROG_T2	0	0	0	0	0	0	-0.83	-0.96	2	2	0	1800	1800	0
5/7/2024 21:59	57303	MOAL_T2	1	1	0	7.5	7.3	-0.2	0	0	0	0	0	0	0	0
5/7/2024 21:59	52503	PROG_T2	0	0	0	0	0	0	-0.56	-0.58	1	1	0	900	900	0
5/7/2024 21:59	57304	MOAL_T2	2	3	1	0.4	0.4	0	-0.37	-0.38	0	0	0	0	0	0
5/7/2024 22:00	67204	TEHI_T2	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
5/7/2024 22:00	62104	ELAN_T1	0	0	0	0	0	0	0.57	0.05	1	1	0	1200	1200	0
5/7/2024 22:00	64901	MILL_T1	5	48	43	0.16	0.21	0.05	0	0	0	0	0	0	0	0
5/7/2024 22:00	64904	MILL_T1	1	112	111	0.2	0.17	-0.03	-0.21	-0.15	0	0	0	0	0	0
5/7/2024 22:00	57704	PAXT_T2	0	0	0	0	0	0	0.17	0.26	1	1	0	900	900	0
5/7/2024 22:00	66902	SHIL_T2	0	0	0	0	0	0	-1.53	-1.6	0	0	0	0	0	0
5/7/2024 22:01	63403	HONY_T2	0	0	0	0	0	0	0.23	0.15	0	0	0	0	0	0
5/7/2024 22:01	51108	CARL_T1	0	0	0	0	0	0	-0.53	-0.57	0	0	0	0	0	0
5/7/2024 22:01	63402	HONY_T2	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
5/7/2024 22:01	51102	CARL_T1	10	15	5	0.11	0.13	0.02	0	0	0	0	0	0	0	0
5/7/2024 22:02	45902	AUBU_T1	0	0	0	0	0	0	-1.1	-1.04	1	1	0	600	600	0
5/7/2024 22:02	58001	WCAR_T1	4	4	0	1.2	0.83	-0.37	0	0	0	0	0	0	0	0
5/7/2024 22:02	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 22:02	66902	SHIL_T2	0	0	0	0	0	0	-1.53	-1.6	0	0	0	0	0	0
5/7/2024 22:02	58003	WCAR_T1	1	1	0	1.6	1.1	-0.5	0.74	0.7	0	0	0	0	0	0
5/7/2024 22:03	52503	PROG_T2	0	0	0	0	0	0	-0.56	-0.58	1	1	0	900	900	0
5/7/2024 22:03	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.47	0	0	0	0	0	0
5/7/2024 22:03	13302	ORVI_T2	0	0	0	0	0	0	1.56	0.22	0	0	0	0	0	0
5/7/2024 22:03	55002	NEWP_T1	5	4	-1	1	0.55	-0.45	-0.24	-0.23	0	0	0	0	0	0
5/7/2024 22:03	42902	MIDD_T2	0	0	0	0	0	0	-1.06	-1.1	1	1	0	600	600	0
5/7/2024 22:03	42903	MIDD_T2	2	2	0	1.1	1.45	0.35	0	0	0	0	0	0	0	0
5/7/2024 22:04	66502	SMAN_T2	0	0	0	0	0	0	-0.03	-0.13	0	0	0	0	0	0
5/7/2024 22:04	67703	WERN_T2	0	0	0	0	0	0	-0.06	-0.14	1	1	0	900	900	0
5/7/2024 22:04	60101	COCA_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
5/7/2024 22:04	67203	TEHI_T1	0	0	0	0	0	0	2.22	2.17	2	2	0	1500	1500	0
5/7/2024 22:04	58001	WCAR_T1	4	4	0	1.2	0.83	-0.37	0	0	0	0	0	0	0	0
5/7/2024 22:04	40801	EXCH_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
5/7/2024 22:04	45902	AUBU_T1	0	0	0	0	0	0	-1.1	-1.04	1	1	0	600	600	0
5/7/2024 22:04	40802	EXCH_T2	1	0	-1	0.1	0	-0.1	-0.27	-0.28	0	0	0	0	0	0
5/7/2024 22:04	43101	SMIL_T2	0	0	0	0	0	0	-0.73	-0.76	0	0	0	0	0	0
5/7/2024 22:04	59003	MIFF_T1	0	1	1	0	0.7	0.7	0.82	-0.08	0	0	0	0	0	0
5/7/2024 22:04	59002	MIFF_T1	5	5	0	0.22	0.4	0.18	0	0	0	0	0	0	0	0
5/7/2024 22:04	67401	WAKE_T2	0	0	0	0	0	0	-1.03	-0.99	0	0	0	0	0	0
5/7/2024 22:04	58003	WCAR_T1	1	1	0	1.6	1.1	-0.5	0.74	0.7	0	0	0	0	0	0
5/7/2024 22:04	67002	STHI_T2	0	0	0	0	0	0	0.94	0.85	0	0	0	0	0	0
5/7/2024 22:04	43102	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 22:04	43103	SMIL_T2	0	8	8	0	0.29	0.29	0	0	0	0	0	0	0	0
5/7/2024 22:05	62104	ELAN_T1	0	0	0	0	0	0	0.57	0.05	1	1	0	1200	1200	0
5/7/2024 22:05	52503	PROG_T2	0	0	0	0	0	0	-1.12	-1.16	2	2	0	1800	1800	0
5/7/2024 22:05	63601	LETO_T1	0	0	0	0	0	0	0.79	0.7	2	2	0	2100	2100	0
5/7/2024 22:05	47401	PENS_T1	0	0	0	0	0	0	1.06	1.05	0	0	0	0	0	0
5/7/2024 22:05	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.47	0	0	0	0	0	0
5/7/2024 22:05	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 22:05	45902	AUBU_T1	0	0	0	0	0	0	-1.1	-1.04	1	1	0	600	600	0
5/7/2024 22:05	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/7/2024 22:05	63602	LETO_T1	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
5/7/2024 22:06	54203	PENN_T1	19	18	-1	1.32	1.04	-0.28	0	0	0	0	0	0	0	0
5/7/2024 22:06	23201	HIRU_T2	20	54	34	0.11	0.16	0.05	0	0	0	0	0	0	0	0
5/7/2024 22:06	54001	SDLE_T1	12	6	-6	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
5/7/2024 22:06	23202	HIRU_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
5/7/2024 22:06	20401	ASHF_T2	3	6	3	0.63	0.43	-0.2	-0.17	-0.19	0	0	0	0	0	0
5/7/2024 22:06	54201	PENN_T1	51	15	-36	0.4	0.81	0.41	-0.78	-0.74	0	0	0	0	0	0
5/7/2024 22:06	61302	EARL_T1	0	0	0	0	0	0	-0.1	-0.13	2	2	0	1800	1800	0
5/7/2024 22:06	20402	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 22:06	56802	BENV_T2	931	434	-497	0.76	0.58	-0.18	-0.62	-0.62	0	0	0	0	0	0
5/7/2024 22:06	13303	ORVI_T1	0	0	0	0	0	0	0.95	-0.4	0	0	0	0	0	0
5/7/2024 22:06	48302	ORWI_T2	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
5/7/2024 22:07	45501	DERR_T2	0	0	0	0	0	0	-0.09	-0.25	2	2	0	1800	1800	0
5/7/2024 22:07	63305	GREE_T1	1	0	-1	0	0	0	-1.1	-1.11	0	0	0	0	0	0
5/7/2024 22:07	22003	BOHE_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
5/7/2024 22:07	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/7/2024 22:07	52501	PROG_T1	0	0	0	0	0	0	0.6	0.56	1	1	0	300	300	0
5/7/2024 22:07	52502	PROG_T2	0	0	0	0	0	0	-0.42	-0.48	1	1	0	900	900	0
5/7/2024 22:07	22002	BOHE_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
5/7/2024 22:07	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 22:07	67002	STHI_T2	0	0	0	0	0	0	0.94	0.85	0	0	0	0	0	0
5/7/2024 22:07	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 22:07	67204	TEHI_T2	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
5/7/2024 22:07	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/7/2024 22:08	59302	MCAL_T1	15	1	-14	0.23	1	0.77	-0.23	0.41	1	1	0	600	600	0
5/7/2024 22:08	59301	MCAL_T1	77	75	-2	0.49	0.49	0	0	0	0	0	0	0	0	0
5/7/2024 22:08	48902	FOSP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 22:08	58402	MORO_T1	0	0	0	0	0	0	-0.38	-0.4	2	2	0	1500	1500	0
5/7/2024 22:08	29402	BELT_T1	1	1	0	7.4	7.7	0.3	0	0	0	0	0	0	0	0
5/7/2024 22:08	56802	BENV_T2	931	434	-497	0.76	0.58	-0.18	-0.62	-0.66	0	0	0	0	0	0
5/7/2024 22:08	42902	MIDD_T2	0	0	0	0	0	0	-1.06	-1.1	1	1	0	600	600	0
5/7/2024 22:08	61803	EELI_T2	0	0	0	0	0	0	0.15	0.14	1	1	0	600	600	0
5/7/2024 22:08	42903	MIDD_T2	2	2	0	1.1	1.45	0.35	0	0	0	0	0	0	0	0
5/7/2024 22:08	48302	ORWI_T2	2	2	0	1	1.15	0.15	-0.07	-0.1	0	0	0	0	0	0
5/7/2024 22:09	56802	BENV_T2	931	434	-497	0.76	0.58	-0.18	-0.62	-0.66	0	0	0	0	0	0
5/7/2024 22:09	57304	MOAL_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/7/2024 22:09	24103	EHAZ_T1	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
5/7/2024 22:09	29402	BELT_T1	1	1	0	7.4	7.7	0.3	0	0	0	0	0	0	0	0
5/7/2024 22:09	40502	CRES_T2	4	14	10	0.13	0.33	0.2	-0.27	-0.3	0	0	0	0	0	0
5/7/2024 22:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/7/2024 22:09	58401	MORO_T1	0	0	0	0	0	0	-1.03	-1.07	1	1	0	600	600	0
5/7/2024 22:09	43103	SMIL_T2	0	8	8	0	0.29	0.29	-0.84	-0.87	0	0	0	0	0	0
5/7/2024 22:09	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 22:09	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 22:09	24105	EHAZ_T1	4	4	0	6.58	6.23	-0.35	0	0	0	0	0	0	0	0
5/7/2024 22:09	67002	STHI_T2	0	0	0	0	0	0	0.85	0.82	0	0	0	0	0	0
5/7/2024 22:09	52501	PROG_T1	0	0	0	0	0	0	0.56	-0.18	1	1	0	300	300	0
5/7/2024 22:09	57303	MOAL_T2	1	1	0	7.3	7.3	0	0	0	0	0	0	0	0	0
5/7/2024 22:09	24102	EHAZ_T1	6	6	0	1.75	1.4	-0.35	0	0	0	0	0	0	0	0
5/7/2024 22:09	40101	HUNT_T2	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
5/7/2024 22:09	43102	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 22:09	57302	MOAL_T2	0	0	0	0	0	0	-1.41	-1.4	1	1	0	1200	1200	0
5/7/2024 22:09	24101	EHAZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/7/2024 22:09	10801	CHHI_T1	0	65	65	0	0.17	0.17	-1.9	-1.27	3	3	0	2100	2100	0
5/7/2024 22:10	46301	ROHR_T1	124	131	7	0.24	0.24	0	0.21	0.18	0	0	0	0	0	0
5/7/2024 22:10	20403	ASHF_T2	0	0	0	0	0	0	0.42	0.32	0	0	0	0	0	0
5/7/2024 22:10	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 22:10	20401	ASHF_T2	3	6	3	0.63	0.43	-0.2	0	0	0	0	0	0	0	0
5/7/2024 22:10	23201	HIRU_T2	20	54	34	0.11	0.16	0.05	0	0	0	0	0	0	0	0
5/7/2024 22:10	52502	PROG_T2	0	0	0	0	0	0	-1.44	-1.51	3	3	0	2700	2700	0
5/7/2024 22:10	54001	SDLE_T1	12	6	-6	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
5/7/2024 22:10	23203	HIRU_T2	0	0	0	0	0	0	-0.06	0.01	0	0	0	0	0	0
5/7/2024 22:10	56802	BENV_T2	931	434	-497	0.76	0.58	-0.18	-0.62	-0.66	0	0	0	0	0	0
5/7/2024 22:10	67802	WLAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 22:10	40601	PIGR_T1	59	0	-59	0.17	0	-0.17	-0.08	-0.16	0	0	0	0	0	0
5/7/2024 22:10	29402	BELT_T1	1	1	0	7.4	7.7	0.3	0	0	0	0	0	0	0	0
5/7/2024 22:10	45502	DERR_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
5/7/2024 22:10	67702	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
5/7/2024 22:10	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 22:10	20402	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 22:10	67803	WLAN_T1	0	1	1	0	0.1	0.1	-0.75	-0.78	0	0	0	0	0	0
5/7/2024 22:10	46302	ROHR_T1	5	5	0	1.76	2.06	0.3	0	0	0	0	0	0	0	0
5/7/2024 22:10	16201	POFA_T2	4	3	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
5/7/2024 22:10	67804	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 22:10	67805	WLAN_T1	48	403	355	0.13	0.26	0.13	0	0	0	0	0	0	0	0
5/7/2024 22:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/7/2024 22:10	13704	SCHN_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
5/7/2024 22:11	40601	PIGR_T1	59	0	-59	0.17	0	-0.17	-0.08	-0.16	0	0	0	0	0	0
5/7/2024 22:11	57303	MOAL_T2	1	1	0	7.3	7.3	0	0	0	0	0	0	0	0	0
5/7/2024 22:11	65604	QVIL_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
5/7/2024 22:11	45902	AUBU_T1	0	0	0	0	0	0	-1.04	-1.07	1	1	0	600	600	0
5/7/2024 22:11	56802	BENV_T2	931	434	-497	0.76	0.58	-0.18	-0.62	-0.66	0	0	0	0	0	0
5/7/2024 22:11	14203	EALL_T1	0	0	0	0	0	0	-0.16	-0.21	1	1	0	1200	1200	0
5/7/2024 22:11	57304	MOAL_T2	1	2	1	0.2	0.4	0.2	-0.38	-0.41	0	0	0	0	0	0
5/7/2024 22:11	45501	DERR_T2	0	0	0	0	0	0	-0.25	-0.24	2	2	0	1800	1800	0
5/7/2024 22:11	14207	EALL_T1	1	1	0	1.6	3.2	1.6	0	0	0	0	0	0	0	0
5/7/2024 22:11	10705	CATA_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
5/7/2024 22:11	44301	BEAV_T2	0	0	0	0	0	0	0.24	0.27	1	1	0	600	600	0
5/7/2024 22:12	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 22:12	67703	WERN_T2	0	0	0	0	0	0	-0.14	-0.12	1	1	0	900	900	0
5/7/2024 22:12	59101	WALK_T2	0	0	0	0	0	0	1.28	1.42	0	0	0	0	0	0
5/7/2024 22:12	59102	WALK_T2	11	0	-11	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/7/2024 22:12	41902	REED_T1	0	0	0	0	0	0	1.08	1.04	0	0	0	0	0	0
5/7/2024 22:12	53901	HALI_T2	1	1	0	0.4	0.5	0.1	-1.35	-1.37	0	0	0	0	0	0
5/7/2024 22:12	53902	HALI_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
5/7/2024 22:12	15703	TANN_T2	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
5/7/2024 22:12	15702	TANN_T2	0	0	0	0	0	0	0.89	0.89	0	0	0	0	0	0
5/7/2024 22:12	56802	BENV_T2	931	434	-497	0.76	0.58	-0.18	-0.62	-0.66	0	0	0	0	0	0
5/7/2024 22:12	53903	HALI_T2	2	2	0	1.55	1.3	-0.25	0	0	0	0	0	0	0	0
5/7/2024 22:12	41901	REED_T1	9	0	-9	0.27	0	-0.27	0	0	0	0	0	0	0	0
5/7/2024 22:13	67201	TEHI_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
5/7/2024 22:13	23203	HIRU_T2	0	0	0	0	0	0	-0.06	0.01	0	0	0	0	0	0
5/7/2024 22:13	23201	HIRU_T2	20	54	34	0.11	0.16	0.05	0	0	0	0	0	0	0	0
5/7/2024 22:13	11102	EGYP_T1	0	0	0	0	0	0	-0.27	0.55	0	0	0	0	0	0
5/7/2024 22:14	20401	ASHF_T2	3	6	3	0.63	0.43	-0.2	0	0	0	0	0	0	0	0
5/7/2024 22:14	63803	HEMP_T1	16	49	33	0.12	0.18	0.06	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/7/2024 22:14	10801	CHHI_T1	0	65	65	0	0.17	0.17	-1.9	-1.27	3	2	-1	2100	1500	-600
5/7/2024 22:14	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 22:14	12801	MICK_T1	0	0	0	0	0	0	-0.07	-0.11	1	1	0	600	600	0
5/7/2024 22:14	42903	MIDD_T2	2	2	0	1.1	1.45	0.35	0	0	0	0	0	0	0	0
5/7/2024 22:14	52503	PROG_T2	0	0	0	0	0	0	-0.58	-0.59	1	1	0	900	900	0
5/7/2024 22:14	59002	MIFF_T1	5	5	0	0.22	0.4	0.18	0	0	0	0	0	0	0	0
5/7/2024 22:14	12807	MICK_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/7/2024 22:14	20402	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 22:14	12803	MICK_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/7/2024 22:14	59003	MIFF_T1	0	1	1	0	0.7	0.7	-0.16	-0.33	0	0	0	0	0	0
5/7/2024 22:14	44301	BEAV_T2	0	0	0	0	0	0	0.24	0.27	1	1	0	600	600	0
5/7/2024 22:14	63801	HEMP_T1	1	7	6	0.2	0.17	-0.03	0.32	0.2	0	0	0	0	0	0
5/7/2024 22:14	20403	ASHF_T2	0	0	0	0	0	0	0.21	0.16	0	0	0	0	0	0
5/7/2024 22:14	21901	HUMB_T1	0	1	1	0	0	0	-0.9	-0.91	0	0	0	0	0	0
5/7/2024 22:14	63804	HEMP_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
5/7/2024 22:14	46301	ROHR_T1	124	131	7	0.24	0.24	0	0.21	0.18	0	0	0	0	0	0
5/7/2024 22:14	42902	MIDD_T2	0	0	0	0	0	0	-1.1	-1.12	1	1	0	600	600	0
5/7/2024 22:14	46302	ROHR_T1	5	5	0	1.76	2.06	0.3	0	0	0	0	0	0	0	0
5/7/2024 22:15	14603	SWHI_T1	0	0	0	0	0	0	-0.86	-0.93	1	1	0	600	600	0
5/7/2024 22:15	14204	EALL_T2	0	0	0	0	0	0	-0.23	-0.27	0	0	0	0	0	0
5/7/2024 22:15	10805	CHHI_T2	1	1	0	7.8	7.6	-0.2	-1.12	-1.25	1	1	0	600	600	0
5/7/2024 22:15	15001	BLMO_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
5/7/2024 22:15	26002	WDAM_T1	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
5/7/2024 22:15	46001	BERW_T1	0	0	0	0	0	0	0.61	0.57	0	0	0	0	0	0
5/7/2024 22:15	44301	BEAV_T2	0	0	0	0	0	0	0.24	0.27	1	1	0	600	600	0
5/7/2024 22:15	10707	CATA_T2	0	0	0	0	0	0	0.43	0.51	0	0	0	0	0	0
5/7/2024 22:15	42902	MIDD_T2	0	0	0	0	0	0	-1.1	-1.12	1	1	0	600	600	0
5/7/2024 22:15	26001	WDAM_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
5/7/2024 22:15	42201	SHEN_T2	0	0	0	0	0	0	0.02	0.01	1	1	0	600	600	0
5/7/2024 22:15	14601	SWHI_T1	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
5/7/2024 22:15	46801	HEPB_T2	18	2	-16	0.23	0.6	0.37	0	0	0	0	0	0	0	0
5/7/2024 22:15	42903	MIDD_T2	2	2	0	1.4	1.45	0.05	0	0	0	0	0	0	0	0
5/7/2024 22:15	40802	EXCH_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
5/7/2024 22:15	56802	BENV_T2	374	567	193	0.5	0.64	0.14	-1.24	-1.32	0	0	0	0	0	0
5/7/2024 22:15	26401	INOR_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
5/7/2024 22:15	24105	EHAZ_T1	4	4	0	6.25	6.4	0.15	0	0	0	0	0	0	0	0
5/7/2024 22:15	24702	FLND_T2	0	0	0	0	0	0	-0.17	-0.23	1	1	0	1200	1200	0
5/7/2024 22:15	24104	EHAZ_T1	0	0	0	0	0	0	-0.9	-0.93	1	1	0	1200	1200	0
5/7/2024 22:15	10705	CATA_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
5/7/2024 22:15	59101	WALK_T2	0	0	0	0	0	0	1.28	1.42	0	0	0	0	0	0
5/7/2024 22:15	45602	WOOL_T1	1	2	1	0.2	0.4	0.2	0.5	0.52	0	0	0	0	0	0
5/7/2024 22:15	24102	EHAZ_T1	6	5	-1	1.2	1.4	0.2	0	0	0	0	0	0	0	0
5/7/2024 22:15	46803	HEPB_T2	9	0	-9	0.16	0	-0.16	0.47	0.45	0	0	0	0	0	0
5/7/2024 22:15	54206	PENN_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
5/7/2024 22:16	64901	MILL_T1	9	48	39	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
5/7/2024 22:16	14204	EALL_T2	0	0	0	0	0	0	-0.23	-0.27	0	0	0	0	0	0
5/7/2024 22:16	64904	MILL_T1	1	112	111	0.2	0.17	-0.03	-0.15	-0.2	0	0	0	0	0	0
5/7/2024 22:16	25503	MADI_T1	183	295	112	0.24	0.34	0.1	-0.99	-0.98	0	0	0	0	0	0
5/7/2024 22:16	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 22:16	25501	MADI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/7/2024 22:16	44301	BEAV_T2	0	0	0	0	0	0	0.24	0.27	1	1	0	600	600	0
5/7/2024 22:16	14601	SWHI_T1	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
5/7/2024 22:17	63304	GREE_T1	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
5/7/2024 22:17	24201	PROV_T3	1	1	0	7.4	7.4	0	-0.06	-0.11	0	0	0	0	0	0
5/7/2024 22:17	46004	BERW_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
5/7/2024 22:17	20603	GRWO_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
5/7/2024 22:17	24204	PROV_T3	1	1	0	6.7	6.4	-0.3	0	0	0	0	0	0	0	0
5/7/2024 22:17	24205	PROV_T3	1	1	0	1.7	1.9	0.2	0	0	0	0	0	0	0	0
5/7/2024 22:17	24801	VALM_T1	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
5/7/2024 22:17	45402	WBLO_T2	1	1	0	1.3	1.4	0.1	-0.72	-0.74	0	0	0	0	0	0
5/7/2024 22:18	59003	MIFF_T1	1	1	0	0.2	0.7	0.5	-0.08	-0.16	0	0	0	0	0	0
5/7/2024 22:18	59002	MIFF_T1	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
5/7/2024 22:18	53903	HALI_T2	2	2	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
5/7/2024 22:18	49803	UNIV_T1	12	0	-12	0.11	0	-0.11	0	0	0	0	0	0	0	0
5/7/2024 22:18	14601	SWHI_T1	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
5/7/2024 22:18	49804	UNIV_T1	0	1	1	0	0.1	0.1	0.65	0.56	0	0	0	0	0	0
5/7/2024 22:18	53902	HALI_T2	1	1	0	5.2	5	-0.2	-0.18	-0.18	0	0	0	0	0	0
5/7/2024 22:18	53901	HALI_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/7/2024 22:19	42903	MIDD_T2	2	2	0	1.4	1.45	0.05	0	0	0	0	0	0	0	0
5/7/2024 22:19	49803	UNIV_T1	12	0	-12	0.11	0	-0.11	-1.02	0.24	0	0	0	0	0	0
5/7/2024 22:19	42902	MIDD_T2	0	0	0	0	0	0	-1.1	-1.12	1	1	0	600	600	0
5/7/2024 22:19	14601	SWHI_T1	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
5/7/2024 22:19	13704	SCHN_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
5/7/2024 22:19	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/7/2024 22:20	45602	WOOL_T1	1	2	1	0.2	0.4	0.2	0.5	0.52	0	0	0	0	0	0
5/7/2024 22:20	43202	MVIL_T2	87	112	25	0.74	0.64	-0.1	-0.69	-0.71	0	0	0	0	0	0
5/7/2024 22:21	15001	BLMO_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
5/7/2024 22:21	10801	CHHI_T1	65	0	-65	0.17	0	-0.17	-1.9	-1.27	3	2	-1	2100	1500	-600
5/7/2024 22:21	43801	SWIL_T1	45	11	-34	0.37	0.73	0.36	0	0	0	0	0	0	0	0
5/7/2024 22:21	24801	VALM_T1	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
5/7/2024 22:21	13704	SCHN_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
5/7/2024 22:21	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/7/2024 22:21	16201	POFA_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/7/2024 22:21	43802	SWIL_T1	0	0	0	0	0	0	-0.06	-0.06	1	1	0	600	600	0
5/7/2024 22:34	14404	SSLA_T1	1	1	0	5	5.2	0.2	0.02	0	0	0	0	0	0	0
5/7/2024 22:55	17401	FOHI_T1	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
5/7/2024 23:10	11102	EGYP_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
5/8/2024 7:19	55002	NEWP_T1	6	5	-1	0.85	0.96	0.11	-0.27	-0.25	0	0	0	0	0	0
5/8/2024 7:20	55002	NEWP_T1	6	5	-1	0.85	0.96	0.11	-0.27	-0.25	0	0	0	0	0	0
5/8/2024 7:23	15001	BLMO_T1	3	4	1	1.1	0.55	-0.55	0	0	0	0	0	0	0	0
5/8/2024 7:27	62601	ENGL_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
5/8/2024 7:27	26703	HEML_T1	0	0	0	0	0	0	-0.99	-0.97	1	1	0	600	600	0
5/8/2024 7:27	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 7:34	55002	NEWP_T1	5	6	1	0.96	0.88	-0.08	-0.25	-0.27	0	0	0	0	0	0
5/8/2024 7:36	43105	SMIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/8/2024 7:36	43103	SMIL_T2	4	12	8	0.43	0.45	0.02	-0.87	-0.89	0	0	0	0	0	0
5/8/2024 7:36	43202	MVIL_T2	59	27	-32	0.36	0.15	-0.21	-0.63	-0.63	0	0	0	0	0	0
5/8/2024 7:36	43102	SMIL_T2	4	3	-1	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
5/8/2024 7:36	55002	NEWP_T1	5	6	1	0.96	0.88	-0.08	-0.25	-0.27	0	0	0	0	0	0
5/8/2024 7:39	43802	SWIL_T1	0	0	0	0	0	0	-0.24	-0.25	1	1	0	600	600	0
5/8/2024 7:39	43801	SWIL_T1	1	18	17	5.3	0.37	-4.93	0	0	0	0	0	0	0	0
5/8/2024 7:41	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 7:41	62605	ENGL_T1	0	0	0	0	0	0	-0.66	-0.7	0	0	0	0	0	0
5/8/2024 7:42	40802	EXCH_T2	0	117	117	0	0.12	0.12	-0.62	-0.44	0	0	0	0	0	0
5/8/2024 7:42	40801	EXCH_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/8/2024 7:46	47802	MOCA_T2	0	0	0	0	0	0	-0.91	-0.89	0	0	0	0	0	0
5/8/2024 8:02	65802	RTWN_T2	0	0	0	0	0	0	-0.05	-0.1	0	0	0	0	0	0
5/8/2024 8:05	43802	SWIL_T1	0	0	0	0	0	0	-0.25	-0.24	1	1	0	600	600	0
5/8/2024 8:05	43801	SWIL_T1	15	16	1	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
5/8/2024 8:07	57101	SPHI_T2	6	6	0	0.67	1.3	0.63	0	0	0	0	0	0	0	0
5/8/2024 8:07	57104	SPHI_T2	0	0	0	0	0	0	-2.05	-1.04	1	0	-1	900	0	-900
5/8/2024 8:07	57106	SPHI_T2	3	3	0	0.97	1.6	0.63	0	0	0	0	0	0	0	0
5/8/2024 8:07	67703	WERN_T2	0	0	0	0	0	0	-0.14	-0.16	1	1	0	900	900	0
5/8/2024 8:09	16301	ALPA_T1	1	1	0	0.1	0.1	0	-0.33	-0.34	0	0	0	0	0	0
5/8/2024 8:09	67703	WERN_T2	0	0	0	0	0	0	-0.16	-0.15	1	1	0	900	900	0
5/8/2024 8:10	16301	ALPA_T1	1	1	0	0.1	0.1	0	-0.33	-0.34	0	0	0	0	0	0
5/8/2024 8:11	50502	MECH_T1	1	1	0	1.3	2	0.7	0	0	0	0	0	0	0	0
5/8/2024 8:11	45502	DERR_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/8/2024 8:11	45501	DERR_T2	1	2	1	0.7	0.8	0.1	0.74	0.86	2	2	0	1800	1800	0
5/8/2024 8:11	50501	MECH_T1	4	4	0	0.75	1.38	0.63	-0.97	-0.69	0	0	0	0	0	0
5/8/2024 8:21	41901	REED_T1	9	9	0	0.32	0.42	0.1	0	0	0	0	0	0	0	0
5/8/2024 8:21	41902	REED_T1	0	0	0	0	0	0	0.24	0.24	1	1	0	900	900	0
5/8/2024 8:22	41901	REED_T1	9	9	0	0.32	0.42	0.1	0	0	0	0	0	0	0	0
5/8/2024 8:22	41902	REED_T1	0	0	0	0	0	0	0.24	0.24	1	1	0	900	900	0
5/8/2024 8:22	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 8:22	67505	WEWI_T1	0	0	0	0	0	0	-0.01	-0.11	1	1	0	900	900	0
5/8/2024 8:24	67505	WEWI_T1	0	0	0	0	0	0	-0.11	0.01	1	1	0	900	900	0
5/8/2024 8:25	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 8:29	40101	HUNT_T2	0	0	0	0	0	0	-0.26	-0.11	0	0	0	0	0	0
5/8/2024 8:35	43202	MVIL_T2	94	96	2	0.82	0.86	0.04	-0.59	-0.56	0	0	0	0	0	0
5/8/2024 8:35	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 8:36	67204	TEHI_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
5/8/2024 8:37	67204	TEHI_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
5/8/2024 8:38	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 8:39	50506	MECH_T1	0	0	0	0	0	0	-0.5	0.29	1	1	0	900	900	0
5/8/2024 8:39	50501	MECH_T1	4	4	0	1.35	1.05	-0.3	0	0	0	0	0	0	0	0
5/8/2024 8:39	50502	MECH_T1	1	1	0	2	1.9	-0.1	0	0	0	0	0	0	0	0
5/8/2024 8:45	64702	LITI_T2	0	0	0	0	0	0	-0.39	-0.33	0	0	0	0	0	0
5/8/2024 8:46	13502	MCMI_T1	4	22	18	0.13	0.2	0.07	0	0	0	0	0	0	0	0
5/8/2024 8:46	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
5/8/2024 8:48	64702	LITI_T2	0	0	0	0	0	0	-0.39	-0.33	0	0	0	0	0	0
5/8/2024 8:51	43304	WATS_T2	1	1	0	0.7	0.9	0.2	0	0	1	1	0	600	600	0
5/8/2024 8:52	67204	TEHI_T2	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
5/8/2024 8:52	67703	WERN_T2	0	0	0	0	0	0	-0.13	-0.1	1	1	0	900	900	0
5/8/2024 8:53	15701	TANN_T1	1	9	8	4.9	0.73	-4.17	0	0	0	0	0	0	0	0
5/8/2024 8:53	15704	TANN_T1	0	37	37	0	0.12	0.12	-1.19	-1.16	0	0	0	0	0	0
5/8/2024 8:53	45901	AUBU_T1	0	0	0	0	0	0	0.82	0.87	0	0	0	0	0	0
5/8/2024 8:53	67204	TEHI_T2	0	0	0	0	0	0	-0.08	-0.04	0	0	0	0	0	0
5/8/2024 8:55	15703	TANN_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
5/8/2024 8:55	15702	TANN_T2	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
5/8/2024 8:59	56601	HAMP_T1	0	0	0	0	0	0	-1.65	-1.5	0	0	0	0	0	0
5/8/2024 9:00	56601	HAMP_T1	0	0	0	0	0	0	-1.65	-1.5	0	0	0	0	0	0
5/8/2024 9:03	46302	ROHR_T1	8	6	-2	1.33	1.52	0.19	0.12	0.16	0	0	0	0	0	0
5/8/2024 9:03	46301	ROHR_T1	150	118	-32	0.27	0.21	-0.06	0	0	0	0	0	0	0	0
5/8/2024 9:06	54206	PENN_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
5/8/2024 9:06	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 9:06	40302	TAMA_T3	0	0	0	0	0	0	-1.21	-1.21	1	1	0	1200	1200	0
5/8/2024 9:06	67803	WLAN_T1	0	0	0	0	0	0	-0.86	-0.83	0	0	0	0	0	0
5/8/2024 9:07	67803	WLAN_T1	0	0	0	0	0	0	-0.86	-0.83	0	0	0	0	0	0
5/8/2024 9:08	67803	WLAN_T1	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
5/8/2024 9:09	59201	THOM_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/8/2024 9:09	59202	THOM_T1	7	12	5	0.11	0.19	0.08	0	0	0	0	0	0	0	0
5/8/2024 9:10	67803	WLAN_T1	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/8/2024 9:10	67801	WLAN_T1	0	0	0	0	0	0	0.21	0.29	0	0	0	0	0	0
5/8/2024 9:10	67804	WLAN_T1	0	0	0	0	0	0	-1.03	-1.01	0	0	0	0	0	0
5/8/2024 9:19	51002	NHAR_T1	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
5/8/2024 9:19	51004	NHAR_T1	12	13	1	1.08	1.07	-0.01	0	0	0	0	0	0	0	0
5/8/2024 9:19	51003	NHAR_T1	0	0	0	0	0	0	-3.15	-3.02	1	1	0	1200	1200	0
5/8/2024 9:22	13901	SEID_T1	0	0	0	0	0	0	0.23	0.39	0	0	0	0	0	0
5/8/2024 9:22	54001	SDLE_T1	11	13	2	1.15	1.11	-0.04	0	0	0	0	0	0	0	0
5/8/2024 9:23	56501	ROCK_T2	4	6	2	0.9	0.74	-0.16	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 9:24	56501	ROCK_T2	4	6	2	0.9	0.74	-0.16	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 9:25	56501	ROCK_T2	4	6	2	0.9	0.74	-0.16	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 9:25	15703	TANN_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
5/8/2024 9:25	15702	TANN_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
5/8/2024 9:26	56803	BENV_T1	339	376	37	0.51	0.36	-0.15	-0.08	-0.04	1	1	0	600	600	0
5/8/2024 9:26	56501	ROCK_T2	4	6	2	0.9	0.74	-0.16	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 9:26	10805	CHHI_T2	1	1	0	9.1	8.9	-0.2	-0.63	-0.67	1	1	0	600	600	0
5/8/2024 9:26	56801	BENV_T1	37	39	2	1.08	1.1	0.02	0	0	0	0	0	0	0	0
5/8/2024 9:26	41801	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/8/2024 9:27	10805	CHHI_T2	1	1	0	9.1	8.9	-0.2	-1.26	-1.33	2	2	0	1200	1200	0
5/8/2024 9:27	40101	HUNT_T2	1	1	0	0.2	0.1	-0.1	-0.06	-0.08	0	0	0	0	0	0
5/8/2024 9:30	41801	GOCI_T2	1	4	3	0.1	0.38	0.28	0	0	0	0	0	0	0	0
5/8/2024 9:33	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 9:34	15102	UPHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/8/2024 9:34	15101	UPHA_T1	0	0	0	0	0	0	0.16	0.21	0	0	0	0	0	0
5/8/2024 9:37	54206	PENN_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
5/8/2024 9:37	65503	MOJO_T2	0	0	0	0	0	0	-0.66	-0.56	1	1	0	900	900	0
5/8/2024 9:37	54201	PENN_T1	8	10	2	0.76	0.92	0.16	0	0	0	0	0	0	0	0
5/8/2024 9:37	44601	SALE_T2	0	0	0	0	0	0	1.14	0.65	1	1	0	600	600	0
5/8/2024 9:37	54203	PENN_T1	18	18	0	0.42	0.71	0.29	0.58	0.37	0	0	0	0	0	0
5/8/2024 9:37	52501	PROG_T1	0	0	0	0	0	0	0.66	0.63	1	1	0	300	300	0
5/8/2024 9:38	44601	SALE_T2	0	0	0	0	0	0	1.14	0.65	1	1	0	600	600	0
5/8/2024 9:38	42802	SELI_T1	0	0	0	0	0	0	-0.44	-0.43	1	1	0	900	900	0
5/8/2024 9:38	45902	AUBU_T1	0	0	0	0	0	0	-0.48	-0.4	1	1	0	600	600	0
5/8/2024 9:40	67201	TEHI_T1	5	6	1	0.32	0	-0.32	0	0	0	0	0	0	0	0
5/8/2024 9:40	67203	TEHI_T1	0	0	0	0	0	0	1.9	1.82	3	3	0	2100	2100	0
5/8/2024 9:41	45902	AUBU_T1	0	0	0	0	0	0	-0.48	-0.4	1	1	0	600	600	0
5/8/2024 9:41	51101	CARL_T1	0	0	0	0	0	0	-0.95	-0.85	1	1	0	600	600	0
5/8/2024 9:42	45902	AUBU_T1	0	0	0	0	0	0	-0.48	-0.4	1	1	0	600	600	0
5/8/2024 9:43	43103	SMIL_T2	9	8	-1	0.21	0.25	0.04	0	0	0	0	0	0	0	0
5/8/2024 9:43	43105	SMIL_T2	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
5/8/2024 9:43	43102	SMIL_T2	0	0	0	0	0	0	-0.63	-0.64	1	1	0	600	600	0
5/8/2024 9:50	54001	SDLE_T1	13	14	1	1.11	0.89	-0.22	0	0	0	0	0	0	0	0
5/8/2024 9:51	55102	WERT_T2	0	0	0	0	0	0	-1.44	-1.41	2	2	0	1200	1200	0
5/8/2024 9:52	50701	SMEC_T1	0	2	2	0	0.65	0.65	-0.58	-0.69	1	1	0	1200	1200	0
5/8/2024 9:53	67605	WARW_T1	21	14	-7	0.59	0.55	-0.04	-0.95	-0.99	0	0	0	0	0	0
5/8/2024 9:53	67605	WARW_T1	21	14	-7	0.59	0.55	-0.04	-0.95	-0.99	0	0	0	0	0	0
5/8/2024 9:53	67605	WARW_T1	21	14	-7	0.59	0.55	-0.04	-0.95	-0.99	0	0	0	0	0	0
5/8/2024 9:53	67605	WARW_T1	21	14	-7	0.59	0.55	-0.04	-0.95	-0.99	0	0	0	0	0	0
5/8/2024 9:53	54001	SDLE_T1	13	14	1	1.11	0.89	-0.22	0	0	0	0	0	0	0	0
5/8/2024 9:55	54001	SDLE_T1	13	14	1	1.11	0.89	-0.22	0	0	0	0	0	0	0	0
5/8/2024 9:55	29402	BELT_T1	1	2	1	8.5	4.35	-4.15	0	0	0	0	0	0	0	0
5/8/2024 9:55	67603	WARW_T1	0	0	0	0	0	0	0.02	0.06	0	0	0	0	0	0
5/8/2024 9:55	67605	WARW_T1	21	14	-7	0.59	0.55	-0.04	0	0	0	0	0	0	0	0
5/8/2024 9:58	67605	WARW_T1	21	14	-7	0.59	0.55	-0.04	-0.95	-0.99	0	0	0	0	0	0
5/8/2024 10:00	11101	EGYP_T1	0	0	0	0	0	0	3.13	3.41	0	0	0	0	0	0
5/8/2024 10:00	48302	ORWI_T2	1	1	0	0.2	0.2	0	0.12	0.13	0	0	0	0	0	0
5/8/2024 10:00	59102	WALK_T2	1	1	0	0.4	0.1	-0.3	0.61	0.6	0	0	0	0	0	0
5/8/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.35	0.41	0	0	0	0	0	0
5/8/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
5/8/2024 10:00	40505	CRES_T1	3	3	0	4.43	4.8	0.37	0.45	0.47	0	0	0	0	0	0
5/8/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	0.02	0.06	0	0	0	0	0	0
5/8/2024 10:00	50506	MECH_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/8/2024 10:00	53902	HALI_T2	1	2	1	5	3.1	-1.9	0	0	0	0	0	0	0	0
5/8/2024 10:00	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.15	1	1	0	600	600	0
5/8/2024 10:00	22405	MORG_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
5/8/2024 10:00	53901	HALI_T2	1	1	0	0.3	1	0.7	-0.26	-0.26	0	0	0	0	0	0
5/8/2024 10:00	17101	WTRE_T2	24	7	-17	0.57	1.53	0.96	0	0	0	0	0	0	0	0
5/8/2024 10:00	24101	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 10:00	16102	BING_T2	0	0	0	0	0	0	-0.06	0.01	1	1	0	1200	1200	0
5/8/2024 10:00	59002	MIFF_T1	0	5	5	0	0.22	0.22	0	0	0	0	0	0	0	0
5/8/2024 10:00	67605	WARW_T1	14	14	0	0.55	0.39	-0.16	0	0	0	0	0	0	0	0
5/8/2024 10:00	45602	WOOL_T1	0	0	0	0	0	0	1.21	1.14	0	0	0	0	0	0
5/8/2024 10:00	54505	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	0.11	0.16	0	0	0	0	0	0
5/8/2024 10:00	63306	GREE_T1	0	0	0	0	0	0	-0.91	-0.94	0	0	0	0	0	0
5/8/2024 10:00	22102	EDEL_T1	0	0	0	0	0	0	-0.22	-0.13	1	1	0	1200	1200	0
5/8/2024 10:00	66302	MCGO_T2	233	2	-231	0.21	0.3	0.09	-1.92	-1.63	1	1	0	600	600	0
5/8/2024 10:00	24105	EHAZ_T1	4	4	0	6.3	6.35	0.05	-0.49	-0.53	1	1	0	1200	1200	0
5/8/2024 10:00	40703	FFLD_T1	0	0	0	0	0	0	0.34	0.4	0	0	0	0	0	0
5/8/2024 10:00	12802	MICK_T1	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
5/8/2024 10:00	12807	MICK_T1	1	1	0	0.8	0.6	-0.2	-0.7	-0.66	0	0	0	0	0	0
5/8/2024 10:00	44502	HAMI_T2	1	1	0	1.9	2.1	0.2	-0.77	-0.73	0	0	0	0	0	0
5/8/2024 10:00	40201	BEGA_T2	6	4	-2	0.33	0.5	0.17	0	0	0	0	0	0	0	0
5/8/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	-1.53	-1.31	3	3	0	1800	1800	0
5/8/2024 10:00	47002	HUGH_T2	0	0	0	0	0	0	-0.49	-0.45	0	0	0	0	0	0
5/8/2024 10:00	43103	SMIL_T2	7	4	-3	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
5/8/2024 10:00	53903	HALI_T2	3	5	2	0.8	0.96	0.16	0	0	0	0	0	0	0	0
5/8/2024 10:00	51003	NHAR_T1	0	0	0	0	0	0	-2.66	-2.71	1	1	0	1200	1200	0
5/8/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
5/8/2024 10:00	43105	SMIL_T2	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
5/8/2024 10:00	14603	SWHI_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/8/2024 10:00	22404	MORG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	1.28	1.23	0	0	0	0	0	0
5/8/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	0.18	0.08	1	1	0	1200	1200	0
5/8/2024 10:00	50502	MECH_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
5/8/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.94	-0.9	3	3	0	2400	2400	0
5/8/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-0.35	-0.38	1	1	0	900	900	0
5/8/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-0.25	-0.13	1	1	0	1200	1200	0
5/8/2024 10:00	45501	DERR_T2	1	1	0	1.1	1.1	0	0.78	0.79	2	2	0	1800	1800	0
5/8/2024 10:00	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/8/2024 10:00	51702	OBER_T1	2	3	1	2.5	1.87	-0.63	-0.28	-0.29	0	0	0	0	0	0
5/8/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	0.84	-0.13	0	0	0	0	0	0
5/8/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-1.02	-1.05	1	1	0	900	900	0
5/8/2024 10:00	62607	ENGL_T1	1	1	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
5/8/2024 10:00	15404	WALL_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
5/8/2024 10:00	59201	THOM_T1	1	2	1	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
5/8/2024 10:00	40603	PIGR_T1	0	0	0	0	0	0	-0.71	-0.66	1	1	0	900	900	0
5/8/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	-0.42	-0.48	1	1	0	600	600	0
5/8/2024 10:00	12502	MITR_T2	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
5/8/2024 10:00	55002	NEWP_T1	10	8	-2	0.67	0.78	0.11	-0.77	-0.85	0	0	0	0	0	0
5/8/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
5/8/2024 10:00	67703	WERN_T2	0	0	0	0	0	0	-0.03	-0.16	3	3	0	2700	2700	0
5/8/2024 10:00	40101	HUNT_T2	2	1	-1	0.1	0.1	0	-0.31	-0.28	0	0	0	0	0	0
5/8/2024 10:00	50501	MECH_T1	4	4	0	0.53	0.38	-0.15	0	0	0	0	0	0	0	0
5/8/2024 10:00	45702	LIND_T2	1	0	-1	0.1	0	-0.1	-0.29	-0.29	0	0	0	0	0	0
5/8/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 10:00	44505	HAMI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 10:00	59202	THOM_T1	6	9	3	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
5/8/2024 10:00	45902	AUBU_T1	0	1	1	0	0.6	0.6	-1.2	-1.14	3	3	0	1800	1800	0
5/8/2024 10:00	24701	FLND_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
5/8/2024 10:00	54001	SDLE_T1	13	15	2	0.89	0.87	-0.02	0	0	0	0	0	0	0	0
5/8/2024 10:00	50505	MECH_T1	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
5/8/2024 10:00	43801	SWIL_T1	16	12	-4	0.48	0.5	0.02	0	0	0	0	0	0	0	0
5/8/2024 10:00	24102	EHAZ_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/8/2024 10:00	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.77	0.85	0	0	0	0	0	0
5/8/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
5/8/2024 10:00	54206	PENN_T2	0	0	0	0	0	0	0.38	0.34	0	0	0	0	0	0
5/8/2024 10:00	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 10:00	25603	ARRO_T1	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
5/8/2024 10:00	62605	ENGL_T1	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
5/8/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-1.18	-1.19	2	2	0	2100	2100	0
5/8/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.49	0.46	1	1	0	600	600	0
5/8/2024 10:00	17001	RIRO_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
5/8/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
5/8/2024 10:00	58803	COCO_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
5/8/2024 10:00	52503	PROG_T2	0	0	0	0	0	0	-0.59	-0.57	1	1	0	900	900	0
5/8/2024 10:00	51002	NHAR_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/8/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.27	1.19	0	0	0	0	0	0
5/8/2024 10:00	65702	RVIL_T2	0	0	0	0	0	0	-0.72	-0.67	1	1	0	600	600	0
5/8/2024 10:00	12505	MITR_T2	0	0	0	0	0	0	1.31	1.33	0	0	0	0	0	0
5/8/2024 10:00	63601	LETO_T1	0	0	0	0	0	0	1.55	0.47	1	2	1	900	2100	1200
5/8/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-1.35	-1.34	2	2	0	1800	1800	0
5/8/2024 10:00	60501	NMAN_T2	3	3	0	3.8	3.5	-0.3	0	0	0	0	0	0	0	0
5/8/2024 10:00	51704	OBER_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/8/2024 10:00	59001	MIFF_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
5/8/2024 10:00	26703	HEMI_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	600	600	0
5/8/2024 10:00	43104	SMIL_T2	0	0	0	0	0	0	-0.74	-0.74	1	1	0	300	300	0
5/8/2024 10:00	40601	PIGR_T1	129	115	-14	0.32	0.37	0.05	0	0	0	0	0	0	0	0
5/8/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	1.14	1.21	0	0	0	0	0	0
5/8/2024 10:00	64801	MONE_T2	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
5/8/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	-0.07	0	2	2	0	1200	1200	0
5/8/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.07	0.06	1	1	0	600	600	0
5/8/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-0.91	-0.88	0	0	0	0	0	0
5/8/2024 10:00	51004	NHAR_T1	13	13	0	0.98	0.66	-0.32	0	0	0	0	0	0	0	0
5/8/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.14	-0.3	0	0	0	0	0	0
5/8/2024 10:06	61302	EARL_T1	0	0	0	0	0	0	0.31	0.43	3	3	0	2700	2700	0
5/8/2024 10:06	67002	STHI_T2	1	1	0	0.4	0.2	-0.2	0.94	0.94	0	0	0	0	0	0
5/8/2024 10:06	67001	STHI_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/8/2024 10:07	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 10:07	50701	SMEC_T1	0	4	4	0	0.5	0.5	-0.69	-0.66	1	1	0	1200	1200	0
5/8/2024 10:07	29402	BELT_T1	2	2	0	4.35	4.35	0	0	0	0	0	0	0	0	0
5/8/2024 10:07	15103	UPHA_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
5/8/2024 10:07	40902	JESH_T1	0	0	0	0	0	0	-0.54	-0.52	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/8/2024 10:07	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	1	1	0	900	900	0
5/8/2024 10:07	40901	JESH_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/8/2024 10:07	56801	BENV_T1	35	55	20	1.13	0.95	-0.18	0	0	0	0	0	0	0	0
5/8/2024 10:07	44502	HAMI_T2	1	1	0	1.9	2.1	0.2	0	0	0	0	0	0	0	0
5/8/2024 10:07	56803	BENV_T1	106	191	85	0.24	0.38	0.14	-0.07	-0.04	1	1	0	600	600	0
5/8/2024 10:07	59102	WALK_T2	1	1	0	0.4	0.1	-0.3	0.61	0.6	0	0	0	0	0	0
5/8/2024 10:07	63401	HONY_T1	0	0	0	0	0	0	0.5	0.6	0	0	0	0	0	0
5/8/2024 10:07	44505	HAMI_T2	1	0	-1	0.1	0	-0.1	0.62	0.58	0	0	0	0	0	0
5/8/2024 10:07	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 10:07	56504	ROCK_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/8/2024 10:07	51401	LYKE_T1	0	0	0	0	0	0	0.42	0.38	0	0	0	0	0	0
5/8/2024 10:07	64305	LINC_T1	0	0	0	0	0	0	0.17	0.28	0	0	0	0	0	0
5/8/2024 10:07	56501	ROCK_T2	6	4	-2	0.38	0.33	-0.05	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 10:08	40901	JESH_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/8/2024 10:08	41901	REED_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/8/2024 10:08	57104	SPHI_T2	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
5/8/2024 10:08	67703	WERN_T2	0	0	0	0	0	0	-0.05	-0.01	1	1	0	900	900	0
5/8/2024 10:08	16902	MECK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 10:08	41902	REED_T1	0	0	0	0	0	0	0.28	0.32	1	1	0	900	900	0
5/8/2024 10:08	57106	SPHI_T2	3	3	0	0.57	0.8	0.23	0	0	0	0	0	0	0	0
5/8/2024 10:08	16402	MOPO_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
5/8/2024 10:08	46206	DANV_T2	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
5/8/2024 10:08	52004	LING_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
5/8/2024 10:08	57101	SPHI_T2	6	6	0	0.28	0.52	0.24	0	0	0	0	0	0	0	0
5/8/2024 10:08	40902	JESH_T1	0	0	0	0	0	0	-0.54	-0.52	2	2	0	1200	1200	0
5/8/2024 10:08	46203	DANV_T2	0	0	0	0	0	0	-0.6	-0.64	0	0	0	0	0	0
5/8/2024 10:09	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 10:09	13901	SEID_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
5/8/2024 10:09	61101	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/8/2024 10:09	10801	CHHI_T1	0	0	0	0	0	0	-0.59	-0.4	1	1	0	900	900	0
5/8/2024 10:09	46004	BERW_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
5/8/2024 10:09	61103	BERK_T5	0	1	1	0	0.2	0.2	0.23	0.22	0	0	0	0	0	0
5/8/2024 10:09	10805	CHHI_T2	1	3	2	9	9	0	-0.6	-0.54	1	1	0	600	600	0
5/8/2024 10:09	13905	SEID_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 10:09	54001	SDLE_T1	13	15	2	0.89	0.87	-0.02	0	0	0	0	0	0	0	0
5/8/2024 10:10	10801	CHHI_T1	0	0	0	0	0	0	-0.59	-0.4	1	1	0	900	900	0
5/8/2024 10:10	67703	WERN_T2	0	0	0	0	0	0	-0.11	-0.02	2	2	0	1800	1800	0
5/8/2024 10:10	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 10:10	46001	BERW_T1	0	0	0	0	0	0	0.85	0.93	0	0	0	0	0	0
5/8/2024 10:10	44601	SALE_T2	0	0	0	0	0	0	0.64	0.68	2	2	0	900	900	0
5/8/2024 10:11	61103	BERK_T5	0	1	1	0	0.2	0.2	0.23	0.22	0	0	0	0	0	0
5/8/2024 10:11	45501	DERR_T2	1	1	0	1.1	1.1	0	0.79	0.74	2	2	0	1800	1800	0
5/8/2024 10:11	61101	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/8/2024 10:11	16301	ALPA_T1	0	0	0	0	0	0	-0.17	-0.1	0	0	0	0	0	0
5/8/2024 10:12	15702	TANN_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
5/8/2024 10:12	63804	HEMP_T1	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
5/8/2024 10:12	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
5/8/2024 10:12	63803	HEMP_T1	0	1	1	0	0.2	0.2	0.25	0.22	0	0	0	0	0	0
5/8/2024 10:13	10805	CHHI_T2	1	3	2	9	9	0	-0.6	-0.54	1	1	0	600	600	0
5/8/2024 10:13	65001	NEFF_T2	0	0	0	0	0	0	-0.13	-0.09	1	1	0	1200	1200	0
5/8/2024 10:14	10805	CHHI_T2	1	3	2	9	9	0	-1.19	-1.08	2	2	0	1200	1200	0
5/8/2024 10:14	64702	LITI_T2	0	0	0	0	0	0	-0.34	-0.21	0	0	0	0	0	0
5/8/2024 10:15	25501	MADI_T1	2	2	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
5/8/2024 10:15	25502	MADI_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
5/8/2024 10:15	25503	MADI_T1	129	78	-51	0.45	0.26	-0.19	-0.99	-0.98	0	0	0	0	0	0
5/8/2024 10:16	42902	MIDD_T2	2	1	-1	0.3	0.1	-0.2	-0.37	-0.36	1	1	0	600	600	0
5/8/2024 10:17	46505	LOMA_T1	0	0	0	0	0	0	-0.24	-0.17	1	1	0	600	600	0
5/8/2024 10:17	25402	LAHA_T2	0	0	0	0	0	0	-0.4	-0.69	0	0	0	0	0	0
5/8/2024 10:17	42902	MIDD_T2	2	1	-1	0.3	0.1	-0.2	-0.37	-0.36	1	1	0	600	600	0
5/8/2024 10:18	64702	LITI_T2	0	0	0	0	0	0	-0.34	-0.21	0	0	0	0	0	0
5/8/2024 10:21	67602	WARW_T2	0	0	0	0	0	0	0.2	-0.06	1	1	0	1200	1200	0
5/8/2024 10:21	67204	TEHI_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
5/8/2024 10:22	67203	TEHI_T1	0	2	2	0	0.2	0.2	1.93	1.96	3	3	0	2100	2100	0
5/8/2024 10:22	67204	TEHI_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
5/8/2024 10:22	67201	TEHI_T1	3	15	12	0.63	0.2	-0.43	0	0	0	0	0	0	0	0
5/8/2024 10:23	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 10:23	67602	WARW_T2	0	0	0	0	0	0	-0.06	-0.12	1	1	0	1200	1200	0
5/8/2024 10:23	67605	WARW_T1	13	13	0	0.4	0.32	-0.08	-1	-0.98	0	0	0	0	0	0
5/8/2024 10:23	29402	BELT_T1	2	2	0	4.35	4.15	-0.2	0	0	0	0	0	0	0	0
5/8/2024 10:25	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 10:25	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 10:25	23902	EFMO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/8/2024 10:25	29402	BELT_T1	2	2	0	4.35	4.15	-0.2	0	0	0	0	0	0	0	0
5/8/2024 10:26	20403	ASHF_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
5/8/2024 10:26	20401	ASHF_T2	0	0	0	0	0	0	-0.1	-0.07	0	0	0	0	0	0
5/8/2024 10:27	53902	HALI_T2	2	2	0	2.7	3.1	0.4	0	0	0	0	0	0	0	0
5/8/2024 10:27	53903	HALI_T2	4	4	0	0.65	1.18	0.53	0	0	0	0	0	0	0	0
5/8/2024 10:27	67702	WERN_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/8/2024 10:27	53901	HALI_T2	1	1	0	0.4	1	0.6	-1.35	-1.28	0	0	0	0	0	0
5/8/2024 10:27	67703	WERN_T2	0	0	0	0	0	0	-0.01	0.04	1	1	0	900	900	0
5/8/2024 10:28	53903	HALI_T2	4	4	0	0.65	1.18	0.53	0	0	0	0	0	0	0	0
5/8/2024 10:28	53902	HALI_T2	2	2	0	2.7	3.1	0.4	0	0	0	0	0	0	0	0
5/8/2024 10:28	53901	HALI_T2	1	1	0	0.4	1	0.6	-1.35	-1.28	0	0	0	0	0	0
5/8/2024 10:29	53901	HALI_T2	1	1	0	0.4	1	0.6	-1.35	-1.28	0	0	0	0	0	0
5/8/2024 10:29	53902	HALI_T2	2	2	0	2.7	3.1	0.4	0	0	0	0	0	0	0	0
5/8/2024 10:29	53903	HALI_T2	4	4	0	0.65	1.18	0.53	0	0	0	0	0	0	0	0
5/8/2024 10:32	53903	HALI_T2	4	3	-1	1.18	1.13	-0.05	0	0	0	0	0	0	0	0
5/8/2024 10:32	53901	HALI_T2	1	1	0	1	0.8	-0.2	-1.35	-1.28	0	0	0	0	0	0
5/8/2024 10:32	53902	HALI_T2	2	8	6	3.1	2	-1.1	0	0	0	0	0	0	0	0
5/8/2024 10:34	47403	PENS_T1	1	1	0	0.8	2.1	1.3	0	0	0	0	0	0	0	0
5/8/2024 10:34	13503	MCMI_T2	1	8	7	0.8	0.51	-0.29	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 10:34	47401	PENS_T1	5	6	1	0.66	0.8	0.14	0.15	0.22	0	0	0	0	0	0
5/8/2024 10:35	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 10:35	40302	TAMA_T3	0	0	0	0	0	0	-1.2	-1.2	1	1	0	1200	1200	0
5/8/2024 10:36	67402	WAKE_T2	0	0	0	0	0	0	0.53	0.53	1	1	0	600	600	0
5/8/2024 10:37	67601	WARW_T1	0	0	0	0	0	0	0.07	0.11	0	0	0	0	0	0
5/8/2024 10:37	67602	WARW_T2	0	0	0	0	0	0	-0.06	-0.12	1	1	0	1200	1200	0
5/8/2024 10:37	67001	STHI_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/8/2024 10:37	67002	STHI_T2	1	4	3	0.2	0.33	0.13	1	1	0	0	0	0	0	0
5/8/2024 10:37	67605	WARW_T1	13	6	-7	0.3	0.3	0	0	0	0	0	0	0	0	0
5/8/2024 10:38	67002	STHI_T2	1	4	3	0.2	0.33	0.13	1.99	2.18	0	0	0	0	0	0
5/8/2024 10:38	45902	AUBU_T1	1	1	0	0.6	1	0.4	0.35	0.42	1	1	0	600	600	0
5/8/2024 10:38	67001	STHI_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/8/2024 10:38	44301	BEAV_T2	1	1	0	1.3	1.8	0.5	0.81	0.94	2	2	0	1500	1500	0
5/8/2024 10:39	44301	BEAV_T2	1	1	0	1.3	1.8	0.5	0.94	0.94	2	2	0	1500	1500	0
5/8/2024 10:39	67001	STHI_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/8/2024 10:39	15001	BLMO_T1	3	7	4	0.53	0.58	0.05	0	0	0	0	0	0	0	0
5/8/2024 10:39	67002	STHI_T2	1	4	3	0.2	0.33	0.13	1	1.09	0	0	0	0	0	0
5/8/2024 10:39	45902	AUBU_T1	1	1	0	0.6	1	0.4	-0.35	-0.42	1	1	0	600	600	0
5/8/2024 10:40	15001	BLMO_T1	3	7	4	0.53	0.58	0.05	0	0	0	0	0	0	0	0
5/8/2024 10:40	57003	WHHI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/8/2024 10:40	44301	BEAV_T2	1	1	0	1.3	1.8	0.5	0.94	0.94	2	2	0	1500	1500	0
5/8/2024 10:40	57004	WHHI_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
5/8/2024 10:40	57006	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/8/2024 10:40	45902	AUBU_T1	1	1	0	0.6	1	0.4	-0.35	-0.42	1	1	0	600	600	0
5/8/2024 10:41	45902	AUBU_T1	1	1	0	0.6	1	0.4	-0.35	-0.42	1	1	0	600	600	0
5/8/2024 10:42	15001	BLMO_T1	3	7	4	0.53	0.58	0.05	0	0	0	0	0	0	0	0
5/8/2024 10:42	63304	GREE_T1	0	0	0	0	0	0	-1.19	-1.38	0	0	0	0	0	0
5/8/2024 10:43	53901	HALI_T2	1	1	0	1	0.8	-0.2	1.28	1.22	0	0	0	0	0	0
5/8/2024 10:43	53903	HALI_T2	4	3	-1	1.18	1.13	-0.05	0	0	0	0	0	0	0	0
5/8/2024 10:43	53902	HALI_T2	2	8	6	3.1	2	-1.1	0	0	0	0	0	0	0	0
5/8/2024 10:44	23002	SAJO_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
5/8/2024 10:44	23001	SAJO_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
5/8/2024 10:44	53901	HALI_T2	1	1	0	1	0.8	-0.2	-1.28	-1.22	0	0	0	0	0	0
5/8/2024 10:44	41801	GOCI_T2	20	36	16	0.28	0.28	0	0	0	0	0	0	0	0	0
5/8/2024 10:44	53903	HALI_T2	4	3	-1	1.18	1.13	-0.05	0	0	0	0	0	0	0	0
5/8/2024 10:44	53902	HALI_T2	2	8	6	3.1	2	-1.1	0	0	0	0	0	0	0	0
5/8/2024 10:44	63304	GREE_T1	0	0	0	0	0	0	-1.19	-1.38	0	0	0	0	0	0
5/8/2024 10:45	47802	MOCA_T2	2	2	0	0.5	0.55	0.05	-0.85	-0.86	0	0	0	0	0	0
5/8/2024 10:45	41801	GOCI_T2	3	36	33	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
5/8/2024 10:46	42903	MIDD_T2	0	0	0	0	0	0	0.68	0.62	1	1	0	1200	1200	0
5/8/2024 10:46	42902	MIDD_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 10:48	17002	RIRO_T2	5	3	-2	0.28	0.6	0.32	0.7	0.73	0	0	0	0	0	0
5/8/2024 10:49	12801	MICK_T1	0	0	0	0	0	0	0.26	0.29	1	1	0	600	600	0
5/8/2024 10:49	12806	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 10:49	12803	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 10:49	12807	MICK_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/8/2024 10:49	47802	MOCA_T2	2	2	0	0.5	0.55	0.05	-0.85	-0.86	0	0	0	0	0	0
5/8/2024 10:50	56501	ROCK_T2	7	0	-7	0.31	0	-0.31	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 10:52	56501	ROCK_T2	7	0	-7	0.31	0	-0.31	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 10:52	26001	WDAM_T1	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
5/8/2024 10:52	67803	WLAN_T1	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
5/8/2024 10:53	67605	WARW_T1	4	6	2	0.28	0.32	0.04	-0.98	-0.9	0	0	0	0	0	0
5/8/2024 10:53	67603	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 10:54	67702	WERN_T2	1	1	0	0.6	0.3	-0.3	-0.03	-0.03	0	0	0	0	0	0
5/8/2024 10:56	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 10:57	42501	ALTA_T2	0	0	0	0	0	0	0.3	0.25	1	1	0	600	600	0
5/8/2024 10:58	24102	EHAZ_T1	3	6	3	1.47	0.98	-0.49	0	0	0	0	0	0	0	0
5/8/2024 10:58	24105	EHAZ_T1	4	5	1	6.4	6.28	-0.12	0	0	0	0	0	0	0	0
5/8/2024 10:58	24103	EHAZ_T1	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
5/8/2024 10:58	24101	EHAZ_T1	8	1	-7	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
5/8/2024 11:00	13503	MCMI_T2	8	12	4	0.46	0.68	0.22	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 11:02	45902	AUBU_T1	1	1	0	0.6	0.7	0.1	-0.42	-0.42	1	1	0	600	600	0
5/8/2024 11:02	13501	MCMI_T1	1	1	0	0.5	0.6	0.1	0.1	0.1	0	0	0	0	0	0
5/8/2024 11:02	13502	MCMI_T1	4	5	1	0.7	0.78	0.08	0	0	0	0	0	0	0	0
5/8/2024 11:03	66505	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/8/2024 11:03	47402	PENS_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
5/8/2024 11:03	45902	AUBU_T1	1	1	0	0.6	0.7	0.1	-0.42	-0.42	1	1	0	600	600	0
5/8/2024 11:03	66502	SMAN_T2	0	0	0	0	0	0	0.44	0.48	0	0	0	0	0	0
5/8/2024 11:03	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 11:03	47403	PENS_T1	1	8	7	1.2	0.89	-0.31	0	0	0	0	0	0	0	0
5/8/2024 11:03	63202	MGTN_T2	0	0	0	0	0	0	-0.84	-0.84	1	1	0	900	900	0
5/8/2024 11:03	47401	PENS_T1	4	16	12	0.95	0.48	-0.47	0.3	0.28	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/8/2024 11:04	13704	SCHN_T2	1	1	0	0.5	0.3	-0.2	0.07	0.06	0	0	0	0	0	0
5/8/2024 11:04	47401	PENS_T1	4	16	12	0.95	0.48	-0.47	0.3	0.28	0	0	0	0	0	0
5/8/2024 11:04	47402	PENS_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
5/8/2024 11:04	47403	PENS_T1	1	8	7	1.2	0.89	-0.31	0	0	0	0	0	0	0	0
5/8/2024 11:05	47403	PENS_T1	1	8	7	1.2	0.89	-0.31	0	0	0	0	0	0	0	0
5/8/2024 11:05	14402	SSLA_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/8/2024 11:05	66505	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/8/2024 11:05	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 11:05	66502	SMAN_T2	0	0	0	0	0	0	0.44	0.48	0	0	0	0	0	0
5/8/2024 11:05	47402	PENS_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
5/8/2024 11:05	14403	SSLA_T1	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/8/2024 11:05	47401	PENS_T1	4	16	12	0.95	0.48	-0.47	0.3	0.28	0	0	0	0	0	0
5/8/2024 11:05	14404	SSLA_T1	6	3	-3	1.18	2.03	0.85	0.18	0.12	0	0	0	0	0	0
5/8/2024 11:05	14401	SSLA_T1	2	2	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
5/8/2024 11:06	55105	WERT_T1	0	0	0	0	0	0	-0.25	-0.25	1	1	0	900	900	0
5/8/2024 11:07	47403	PENS_T1	1	8	7	1.2	0.89	-0.31	0	0	0	0	0	0	0	0
5/8/2024 11:07	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/8/2024 11:07	67601	WARW_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
5/8/2024 11:07	67605	WARW_T1	6	5	-1	0.25	0.38	0.13	-0.98	-0.9	0	0	0	0	0	0
5/8/2024 11:07	47402	PENS_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
5/8/2024 11:07	47401	PENS_T1	4	16	12	0.95	0.48	-0.47	0.3	0.28	0	0	0	0	0	0
5/8/2024 11:08	47403	PENS_T1	1	8	7	1.2	0.89	-0.31	0	0	0	0	0	0	0	0
5/8/2024 11:08	47402	PENS_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
5/8/2024 11:08	64101	REFR_T1	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
5/8/2024 11:08	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/8/2024 11:08	67605	WARW_T1	6	5	-1	0.25	0.38	0.13	-0.9	-0.86	0	0	0	0	0	0
5/8/2024 11:08	47401	PENS_T1	4	16	12	0.95	0.48	-0.47	0.3	0.28	0	0	0	0	0	0
5/8/2024 11:09	57006	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/8/2024 11:09	57002	WHHI_T2	0	0	0	0	0	0	-1.07	-1.02	1	1	0	1200	1200	0
5/8/2024 11:09	57001	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 11:09	64101	REFR_T1	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
5/8/2024 11:10	23901	EFMO_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/8/2024 11:10	23902	EFMO_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/8/2024 11:10	59102	WALK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/8/2024 11:10	59101	WALK_T2	0	1	1	0	0.5	0.5	3.86	3.95	0	0	0	0	0	0
5/8/2024 11:11	61801	EELI_T2	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
5/8/2024 11:11	41801	GOCI_T2	36	8	-28	0.28	0.66	0.38	0	0	0	0	0	0	0	0
5/8/2024 11:11	61803	EELI_T2	0	0	0	0	0	0	0.7	0.65	1	1	0	600	600	0
5/8/2024 11:12	64101	REFR_T1	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
5/8/2024 11:12	40101	HUNT_T2	0	8	8	0	0.27	0.27	-0.15	0.13	0	0	0	0	0	0
5/8/2024 11:12	23902	EFMO_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/8/2024 11:12	14203	EALL_T1	0	3	3	0	0.33	0.33	0.27	0.18	1	1	0	1200	1200	0
5/8/2024 11:12	10801	CHHI_T1	4	5	1	0.85	0.5	-0.35	-0.36	-0.39	1	1	0	900	900	0
5/8/2024 11:12	23901	EFMO_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/8/2024 11:13	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/8/2024 11:13	67605	WARW_T1	6	5	-1	0.25	0.38	0.13	-0.9	-0.86	0	0	0	0	0	0
5/8/2024 11:13	61702	ELIZ_T2	0	0	0	0	0	0	-1.64	-1.64	2	2	0	1500	1500	0
5/8/2024 11:14	40101	HUNT_T2	0	8	8	0	0.27	0.27	-0.15	-0.13	0	0	0	0	0	0
5/8/2024 11:15	59301	MCAL_T1	6	8	2	0.58	0.54	-0.04	-1.59	-1.58	1	1	0	600	600	0
5/8/2024 11:15	41801	GOCI_T2	6	8	2	0.52	0.6	0.08	0	0	0	0	0	0	0	0
5/8/2024 11:16	59301	MCAL_T1	6	8	2	0.58	0.54	-0.04	0	0	0	0	0	0	0	0
5/8/2024 11:16	41801	GOCI_T2	6	8	2	0.52	0.6	0.08	0	0	0	0	0	0	0	0
5/8/2024 11:16	59302	MCAL_T1	0	0	0	0	0	0	0.43	0.46	1	1	0	600	600	0
5/8/2024 11:18	65603	QIVL_T2	0	0	0	0	0	0	-0.04	-0.23	0	0	0	0	0	0
5/8/2024 11:18	40101	HUNT_T2	4	4	0	0.23	0.1	-0.13	-0.15	-0.13	0	0	0	0	0	0
5/8/2024 11:18	65604	QIVL_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
5/8/2024 11:20	51004	NHAR_T1	6	3	-3	1.22	2.23	1.01	-0.12	-0.12	0	0	0	0	0	0
5/8/2024 11:20	67201	TEHI_T1	5	17	12	0.22	0.39	0.17	0.37	0.69	2	2	0	1500	1500	0
5/8/2024 11:20	51002	NHAR_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 11:20	67203	TEHI_T1	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/8/2024 11:20	16406	MOPO_T1	0	0	0	0	0	0	-0.38	-0.35	1	1	0	1200	1200	0
5/8/2024 11:21	16403	MOPO_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
5/8/2024 11:21	56501	ROCK_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/8/2024 11:21	56504	ROCK_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/8/2024 11:21	42802	SELI_T1	1	1	0	0.5	0.3	-0.2	-1.6	-1.58	1	1	0	900	900	0
5/8/2024 11:21	42201	SHEN_T2	0	0	0	0	0	0	0.08	0.16	1	1	0	600	600	0
5/8/2024 11:22	20403	ASHF_T2	2	1	-1	0.35	0.1	-0.25	1.55	1.47	0	0	0	0	0	0
5/8/2024 11:22	56501	ROCK_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/8/2024 11:22	56504	ROCK_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/8/2024 11:22	42201	SHEN_T2	0	0	0	0	0	0	0.08	0.16	1	1	0	600	600	0
5/8/2024 11:22	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 11:22	10805	CHHI_T2	4	3	-1	2.63	4.9	2.27	-0.46	-0.54	1	1	0	600	600	0
5/8/2024 11:23	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 11:23	20403	ASHF_T2	2	1	-1	0.35	0.1	-0.25	1.47	1.46	0	0	0	0	0	0
5/8/2024 11:24	64101	REFR_T1	0	0	0	0	0	0	0.02	0.06	0	0	0	0	0	0
5/8/2024 11:25	64101	REFR_T1	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
5/8/2024 11:26	15702	TANN_T2	0	1	1	0	0.1	0.1	0.71	0.66	0	0	0	0	0	0
5/8/2024 11:26	44301	BEAV_T2	3	7	4	0.4	0.31	-0.09	0.79	1.12	2	2	0	1500	1500	0
5/8/2024 11:26	15703	TANN_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
5/8/2024 11:27	11601	CEAL_T1	1	3	2	0.9	0.7	-0.2	0	0	1	1	0	1200	1200	0
5/8/2024 11:29	64101	REFR_T1	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
5/8/2024 11:30	23002	SAJO_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/8/2024 11:30	23001	SAJO_T1	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
5/8/2024 11:31	41801	GOCI_T2	8	4	-4	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
5/8/2024 11:32	64902	MILL_T2	0	0	0	0	0	0	-0.28	-0.26	1	1	0	900	900	0
5/8/2024 11:33	46302	ROHR_T1	8	8	0	1.26	1.35	0.09	0.2	0.19	0	0	0	0	0	0
5/8/2024 11:33	46301	ROHR_T1	22	49	27	0.31	0.25	-0.06	0	0	0	0	0	0	0	0
5/8/2024 11:34	56501	ROCK_T2	3	0	-3	0.13	0	-0.13	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 11:34	56504	ROCK_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
5/8/2024 11:35	56501	ROCK_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/8/2024 11:35	56504	ROCK_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
5/8/2024 11:36	56504	ROCK_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
5/8/2024 11:36	54001	SDLE_T1	26	48	22	0.88	0.66	-0.22	0	0	0	0	0	0	0	0
5/8/2024 11:36	46302	ROHR_T1	8	8	0	1.26	1.35	0.09	0.2	0.19	0	0	0	0	0	0
5/8/2024 11:36	56501	ROCK_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/8/2024 11:36	46301	ROHR_T1	22	49	27	0.31	0.25	-0.06	0	0	0	0	0	0	0	0
5/8/2024 11:37	42801	SELI_T1	0	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0
5/8/2024 11:37	54001	SDLE_T1	26	48	22	0.88	0.66	-0.22	0	0	0	0	0	0	0	0
5/8/2024 11:37	56504	ROCK_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
5/8/2024 11:37	42802	SELI_T1	1	1	0	0.3	0.3	0	-1.58	-1.57	1	1	0	900	900	0
5/8/2024 11:37	56501	ROCK_T2	3	0	-3	0.13	0	-0.13	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 11:38	54001	SDLE_T1	26	48	22	0.88	0.66	-0.22	0	0	0	0	0	0	0	0
5/8/2024 11:38	58402	MORO_T1	0	1	1	0	0.2	0.2	-0.94	-0.97	3	3	0	2400	2400	0
5/8/2024 11:39	56504	ROCK_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
5/8/2024 11:39	56501	ROCK_T2	3	0	-3	0.13	0	-0.13	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 11:40	64101	REFR_T1	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
5/8/2024 11:40	60101	COCA_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/8/2024 11:40	60904	DONG_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
5/8/2024 11:40	60102	COCA_T1	0	0	0	0	0	0	-1.15	-1.23	3	3	0	2100	2100	0
5/8/2024 11:40	60902	DONG_T2	0	0	0	0	0	0	1.14	1.18	0	0	0	0	0	0
5/8/2024 11:40	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 11:40	60901	DONG_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/8/2024 11:41	46004	BERW_T2	0	0	0	0	0	0	0.38	0.42	0	0	0	0	0	0
5/8/2024 11:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 11:42	11601	CEAL_T1	3	3	0	0.47	0.7	0.23	0	0	2	2	0	2400	2400	0
5/8/2024 11:42	16103	BING_T2	1	1	0	0.3	1	0.7	-0.16	-0.71	0	1	1	0	600	600
5/8/2024 11:42	16102	BING_T2	1	5	4	0.5	0.5	0	0	0	0	0	0	0	0	0
5/8/2024 11:42	16101	BING_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/8/2024 11:43	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 11:43	10801	CHHI_T1	1	3	2	0.1	0.43	0.33	-0.35	-0.93	1	2	1	900	1500	600
5/8/2024 11:43	40101	HUNT_T2	4	3	-1	0.2	0	-0.2	-0.1	-0.12	0	0	0	0	0	0
5/8/2024 11:44	63804	HEMP_T1	1	1	0	6.5	6.6	0.1	-0.25	-0.23	0	0	0	0	0	0
5/8/2024 11:44	63803	HEMP_T1	4	7	3	0.3	0.44	0.14	0	0	0	0	0	0	0	0
5/8/2024 11:44	63801	HEMP_T1	4	13	9	0.1	0.53	0.43	0	0	0	0	0	0	0	0
5/8/2024 11:44	64702	LITI_T2	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
5/8/2024 11:46	40101	HUNT_T2	3	0	-3	0.1	0	-0.1	-0.1	-0.12	0	0	0	0	0	0
5/8/2024 11:46	46504	LOHA_T1	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
5/8/2024 11:46	46506	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/8/2024 11:46	46502	LOHA_T1	0	0	0	0	0	0	-1.16	-1.17	1	1	0	1200	1200	0
5/8/2024 11:47	44504	HAMI_T2	0	1	1	0	0	0	-0.64	-0.64	0	0	0	0	0	0
5/8/2024 11:47	44505	HAMI_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/8/2024 11:47	44502	HAMI_T2	1	1	0	1.7	1.9	0.2	0	0	0	0	0	0	0	0
5/8/2024 11:49	47401	PENS_T1	7	4	-3	0.74	0.7	-0.04	0.3	0.26	0	0	0	0	0	0
5/8/2024 11:49	47403	PENS_T1	2	15	13	1.1	0.72	-0.38	0	0	0	0	0	0	0	0
5/8/2024 11:49	47402	PENS_T1	2	4	2	0.45	0.58	0.13	0	0	0	0	0	0	0	0
5/8/2024 11:50	49804	UNIV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/8/2024 11:50	49803	UNIV_T1	2	2	0	0.85	0.55	-0.3	-0.63	-0.64	0	0	0	0	0	0
5/8/2024 11:50	56504	ROCK_T2	1	3	2	0.6	0.37	-0.23	0	0	0	0	0	0	0	0
5/8/2024 11:50	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 11:51	65901	SAKR_T2	1	1	0	7.7	7.9	0.2	-0.96	-1.03	2	2	0	1500	1500	0
5/8/2024 11:51	47403	PENS_T1	2	15	13	1.1	0.72	-0.38	0	0	0	0	0	0	0	0
5/8/2024 11:51	47401	PENS_T1	7	4	-3	0.74	0.7	-0.04	0.3	0.26	0	0	0	0	0	0
5/8/2024 11:51	64101	REFR_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
5/8/2024 11:51	47402	PENS_T1	2	4	2	0.45	0.58	0.13	0	0	0	0	0	0	0	0
5/8/2024 11:51	67502	WEWI_T2	2	4	2	0.65	0.75	0.1	-1.76	-1.73	2	2	0	1800	1800	0
5/8/2024 11:52	45601	WOOL_T1	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
5/8/2024 11:52	54001	SDLE_T1	38	43	5	0.74	0.69	-0.05	0	0	0	0	0	0	0	0
5/8/2024 11:52	67702	WERN_T2	0	1	1	0	0.3	0.3	0.03	-0.01	0	0	0	0	0	0
5/8/2024 11:52	45602	WOOL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/8/2024 11:53	67605	WARW_T1	1	3	2	0.8	0.6	-0.2	-0.85	-0.86	0	0	0	0	0	0
5/8/2024 11:53	67505	WEWI_T1	0	2	2	0	0.15	0.15	0.3	0.35	1	1	0	900	900	0
5/8/2024 11:53	57401	SPAN_T1	1	3	2	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
5/8/2024 11:53	57403	SPAN_T1	0	1	1	0	0.6	0.6	0.09	0.11	0	0	0	0	0	0
5/8/2024 11:53	67501	WEWI_T1	2	2	0	0.65	1.05	0.4	0	0	0	0	0	0	0	0
5/8/2024 11:54	60101	COCA_T1	1	1	0	0.1	0.5	0.4	0.65	0.62	0	0	0	0	0	0
5/8/2024 11:56	41301	FISH_T1	2	4	2	1.65	1.28	-0.37	0	0.01	0	0	0	0	0	0
5/8/2024 11:56	67502	WEWI_T2	2	4	2	0.65	0.75	0.1	-0.87	-0.91	1	1	0	900	900	0
5/8/2024 11:57	21206	ECAR_T2	3	5	2	2.53	4.15	1.62	1.77	1.73	0	0	0	0	0	0
5/8/2024 11:57	53902	HALI_T2	3	3	0	2.1	2.07	-0.03	-0.04	-0.07	0	0	0	0	0	0
5/8/2024 11:57	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 11:57	53901	HALI_T2	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
5/8/2024 11:57	53903	HALI_T2	7	6	-1	1.03	0.78	-0.25	0	0	0	0	0	0	0	0
5/8/2024 11:58	11507	FREE_T2	0	0	0	0	0	0	1.12	1.1	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/8/2024 11:58	63601	LETO_T1	1	4	3	0.1	0.28	0.18	0	0	0	0	0	0	0	0
5/8/2024 11:58	63602	LETO_T1	1	1	0	0.5	0.8	0.3	0.16	0.04	0	0	0	0	0	0
5/8/2024 11:58	67605	WARW_T1	1	3	2	0.8	0.6	-0.2	-0.85	-0.86	0	0	0	0	0	0
5/8/2024 11:59	63602	LETO_T1	1	1	0	0.5	0.8	0.3	0.16	0.04	0	0	0	0	0	0
5/8/2024 11:59	63601	LETO_T1	1	4	3	0.1	0.28	0.18	0	0	0	0	0	0	0	0
5/8/2024 11:59	40101	HUNT_T2	3	0	-3	0.1	0	-0.1	-0.24	-0.04	0	0	0	0	0	0
5/8/2024 11:59	47001	HUGH_T2	0	1	1	0	0.1	0.1	0.15	0.12	0	0	0	0	0	0
5/8/2024 12:00	65501	MOJO_T1	0	0	0	0	0	0	-1.78	-1.79	2	2	0	1800	1800	0
5/8/2024 12:00	21206	ECAR_T2	5	2	-3	1.94	4.05	2.11	1.77	1.73	0	0	0	0	0	0
5/8/2024 12:00	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 12:04	13606	RICH_T2	1	1	0	7.7	7.7	0	1.45	1.44	0	0	0	0	0	0
5/8/2024 12:04	54601	SUMM_T2	0	0	0	0	0	0	-1.52	-1.49	2	2	0	2100	2100	0
5/8/2024 12:06	54601	SUMM_T2	0	0	0	0	0	0	-1.52	-1.49	2	2	0	2100	2100	0
5/8/2024 12:07	65901	SAKR_T2	1	1	0	7.7	7.9	0.2	-1.03	-1	2	2	0	1500	1500	0
5/8/2024 12:08	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 12:08	29402	BELT_T1	2	4	2	3.95	2	-1.95	0	0	0	0	0	0	0	0
5/8/2024 12:09	54601	SUMM_T2	0	0	0	0	0	0	-2.98	-2.83	4	4	0	4200	4200	0
5/8/2024 12:10	14103	TRUM_T2	2	6	4	0.4	0.53	0.13	0	0	0	0	0	0	0	0
5/8/2024 12:10	14101	TRUM_T2	0	0	0	0	0	0	0.38	0.43	0	0	0	0	0	0
5/8/2024 12:10	46203	DANV_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
5/8/2024 12:10	14102	TRUM_T2	2	1	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/8/2024 12:10	46206	DANV_T2	1	1	0	1.4	0.1	-1.3	0	0	0	0	0	0	0	0
5/8/2024 12:10	45602	WOOL_T1	0	1	1	0	0.2	0.2	0.7	0.7	0	0	0	0	0	0
5/8/2024 12:11	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.68	-0.67	0	0	0	0	0	0
5/8/2024 12:11	46206	DANV_T2	1	1	0	1.4	0.1	-1.3	0	0	0	0	0	0	0	0
5/8/2024 12:11	42503	ALTA_T2	0	0	0	0	0	0	-1.18	0.15	0	0	0	0	0	0
5/8/2024 12:11	46203	DANV_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
5/8/2024 12:12	46004	BERK_T2	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
5/8/2024 12:13	60101	COCA_T1	1	1	0	0.5	0.2	-0.3	0.62	0.64	0	0	0	0	0	0
5/8/2024 12:13	23201	HIRU_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
5/8/2024 12:13	23203	HIRU_T2	2	2	0	0.15	0.35	0.2	0.16	0.08	0	0	0	0	0	0
5/8/2024 12:13	23202	HIRU_T2	3	3	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/8/2024 12:14	23203	HIRU_T2	2	2	0	0.15	0.35	0.2	0.16	0.08	0	0	0	0	0	0
5/8/2024 12:14	63804	HEMP_T1	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
5/8/2024 12:14	46203	DANV_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
5/8/2024 12:14	63803	HEMP_T1	7	7	0	0.44	0.39	-0.05	0	0	0	0	0	0	0	0
5/8/2024 12:14	63801	HEMP_T1	13	9	-4	0.53	0.57	0.04	0.47	0.5	0	0	0	0	0	0
5/8/2024 12:14	23201	HIRU_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
5/8/2024 12:14	46206	DANV_T2	1	1	0	1.4	0.1	-1.3	0	0	0	0	0	0	0	0
5/8/2024 12:14	23202	HIRU_T2	3	3	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/8/2024 12:16	23203	HIRU_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
5/8/2024 12:16	23201	HIRU_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/8/2024 12:16	23202	HIRU_T2	3	4	1	0.3	0.35	0.05	0.09	0.08	0	0	0	0	0	0
5/8/2024 12:17	26401	INOR_T1	4	3	-1	2.8	3.67	0.87	0.42	0.37	0	0	0	0	0	0
5/8/2024 12:17	26402	INOR_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/8/2024 12:18	12604	MACA_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
5/8/2024 12:18	12602	MACA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/8/2024 12:18	12605	MACA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/8/2024 12:18	12601	MACA_T1	2	2	0	0.1	1.05	0.95	0.97	1.01	0	0	0	0	0	0
5/8/2024 12:19	13503	MCMI_T2	9	8	-1	0.41	0.53	0.12	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 12:21	43103	SMIL_T2	3	3	0	0.4	0.53	0.13	0	0	0	0	0	0	0	0
5/8/2024 12:21	43102	SMIL_T2	0	0	0	0	0	0	-0.55	-0.56	1	1	0	600	600	0
5/8/2024 12:21	67502	WEWI_T2	4	6	2	0.75	0.52	-0.23	0	0	0	0	0	0	0	0
5/8/2024 12:21	43105	SMIL_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
5/8/2024 12:21	43104	SMIL_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
5/8/2024 12:21	67503	WEWI_T2	0	0	0	0	0	0	0.78	0.8	0	0	0	0	0	0
5/8/2024 12:21	43101	SMIL_T2	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
5/8/2024 12:21	65603	QVIL_T2	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
5/8/2024 12:23	67502	WEWI_T2	4	6	2	0.75	0.52	-0.23	-0.93	-0.8	1	1	0	900	900	0
5/8/2024 12:24	67805	WLAN_T1	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
5/8/2024 12:25	67502	WEWI_T2	4	6	2	0.75	0.52	-0.23	-0.93	-0.8	1	1	0	900	900	0
5/8/2024 12:27	45901	AUBU_T1	0	0	0	0	0	0	1	1.04	0	0	0	0	0	0
5/8/2024 12:27	45902	AUBU_T1	1	0	-1	1.2	0	-1.2	-1.62	-1.65	4	4	0	2400	2400	0
5/8/2024 12:27	48302	ORWI_T2	2	2	0	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
5/8/2024 12:29	63801	HEMP_T1	8	9	1	0.36	0.56	0.2	0	0	0	0	0	0	0	0
5/8/2024 12:29	63804	HEMP_T1	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
5/8/2024 12:29	63803	HEMP_T1	3	7	4	0.47	0.39	-0.08	0	0	0	0	0	0	0	0
5/8/2024 12:29	63802	HEMP_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
5/8/2024 12:29	61801	EELI_T2	0	0	0	0	0	0	-0.42	-0.42	1	1	0	600	600	0
5/8/2024 12:30	63804	HEMP_T1	1	1	0	6.7	7	0.3	0	0	0	0	0	0	0	0
5/8/2024 12:30	63803	HEMP_T1	7	3	-4	0.39	0.4	0.01	0	0	0	0	0	0	0	0
5/8/2024 12:30	63801	HEMP_T1	9	1	-8	0.56	1	0.44	0	0	0	0	0	0	0	0
5/8/2024 12:30	63802	HEMP_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
5/8/2024 12:30	13503	MCMI_T2	3	10	7	0.4	0.5	0.1	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 12:32	23201	HIRU_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/8/2024 12:32	23203	HIRU_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
5/8/2024 12:32	45902	AUBU_T1	0	0	0	0	0	0	-0.81	-0.82	2	2	0	1200	1200	0
5/8/2024 12:32	23202	HIRU_T2	3	5	2	0.23	0.32	0.09	0.08	0.09	0	0	0	0	0	0
5/8/2024 12:35	57302	MOAL_T2	0	0	0	0	0	0	-1.24	-1.24	1	1	0	1200	1200	0
5/8/2024 12:35	57303	MOAL_T2	1	1	0	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
5/8/2024 12:36	56803	BENV_T1	42	33	-9	0.38	0.48	0.1	-0.01	-0.02	1	1	0	600	600	0
5/8/2024 12:36	56801	BENV_T1	38	38	0	0.69	0.65	-0.04	0	0	0	0	0	0	0	0
5/8/2024 12:37	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
5/8/2024 12:38	67603	WARW_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/8/2024 12:38	56504	ROCK_T2	0	4	4	0	0.73	0.73	0	0	0	0	0	0	0	0
5/8/2024 12:38	56501	ROCK_T2	0	3	3	0	0.33	0.33	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 12:38	67605	WARW_T1	1	1	0	1.2	1.2	0	-0.84	-0.84	0	0	0	0	0	0
5/8/2024 12:39	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
5/8/2024 12:39	56504	ROCK_T2	0	4	4	0	0.73	0.73	0	0	0	0	0	0	0	0
5/8/2024 12:39	56501	ROCK_T2	0	3	3	0	0.33	0.33	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 12:40	56803	BENV_T1	42	33	-9	0.38	0.48	0.1	-0.04	-0.02	2	2	0	1200	1200	0
5/8/2024 12:40	67605	WARW_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
5/8/2024 12:40	46203	DANV_T2	0	2	2	0	0.6	0.6	-1.04	-0.86	0	0	0	0	0	0
5/8/2024 12:40	46206	DANV_T2	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
5/8/2024 12:40	56801	BENV_T1	38	38	0	0.69	0.65	-0.04	0	0	0	0	0	0	0	0
5/8/2024 12:40	67604	WARW_T1	0	0	0	0	0	0	0.45	0.5	0	0	0	0	0	0
5/8/2024 12:40	67603	WARW_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/8/2024 12:41	46203	DANV_T2	0	2	2	0	0.6	0.6	-0.52	-0.43	0	0	0	0	0	0
5/8/2024 12:41	67605	WARW_T1	1	1	0	1.2	1.2	0	-0.84	-0.84	0	0	0	0	0	0
5/8/2024 12:41	53902	HALI_T2	2	3	1	2.2	2.4	0.2	0	0	0	0	0	0	0	0
5/8/2024 12:41	53901	HALI_T2	2	2	0	0.2	0.65	0.45	0	0	0	0	0	0	0	0
5/8/2024 12:41	67603	WARW_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/8/2024 12:41	53903	HALI_T2	6	13	7	0.78	0.69	-0.09	-0.05	-0.04	0	0	0	0	0	0
5/8/2024 12:41	46206	DANV_T2	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
5/8/2024 12:43	17401	FOHI_T1	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
5/8/2024 12:43	45501	DERR_T2	2	1	-1	0.55	1.1	0.55	0.81	0.91	2	2	0	1800	1800	0
5/8/2024 12:43	67605	WARW_T1	1	1	0	1.2	1.2	0	-0.84	-0.84	0	0	0	0	0	0
5/8/2024 12:43	67603	WARW_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/8/2024 12:43	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
5/8/2024 12:44	53903	HALI_T2	6	13	7	0.78	0.69	-0.09	-0.05	-0.04	0	0	0	0	0	0
5/8/2024 12:44	42503	ALTA_T2	0	295	295	0	0	0	-0.64	-0.09	0	0	0	0	0	0
5/8/2024 12:44	53902	HALI_T2	2	3	1	2.2	2.4	0.2	0	0	0	0	0	0	0	0
5/8/2024 12:44	46803	HEPB_T2	2	1	-1	0.35	0.5	0.15	0.55	0.5	0	0	0	0	0	0
5/8/2024 12:44	53901	HALI_T2	2	2	0	0.2	0.65	0.45	0	0	0	0	0	0	0	0
5/8/2024 12:44	46801	HEPB_T2	2	2	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
5/8/2024 12:45	53901	HALI_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
5/8/2024 12:45	53902	HALI_T2	3	3	0	2.23	2.4	0.17	0	0	0	0	0	0	0	0
5/8/2024 12:45	53903	HALI_T2	8	13	5	0.89	0.68	-0.21	-0.05	-0.04	0	0	0	0	0	0
5/8/2024 12:45	28805	LAKE_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
5/8/2024 12:47	16402	MOPO_T1	1	2	1	0.6	1.1	0.5	0	0	0	0	0	0	0	0
5/8/2024 12:47	16401	MOPO_T1	1	2	1	0.2	0.35	0.15	0.24	0.23	0	0	0	0	0	0
5/8/2024 12:47	46203	DANV_T2	1	2	1	0.2	0.6	0.4	-0.52	-0.43	0	0	0	0	0	0
5/8/2024 12:47	46206	DANV_T2	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
5/8/2024 12:48	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
5/8/2024 12:49	46801	HEPB_T2	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
5/8/2024 12:49	46803	HEPB_T2	1	1	0	0.5	0.8	0.3	0.55	0.5	0	0	0	0	0	0
5/8/2024 12:50	16402	MOPO_T1	1	2	1	0.6	1.1	0.5	0.05	0.04	0	0	0	0	0	0
5/8/2024 12:50	16401	MOPO_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
5/8/2024 12:53	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/8/2024 12:53	64101	REFR_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
5/8/2024 12:53	67605	WARW_T1	1	1	0	0.9	2.1	1.2	-0.84	-0.84	0	0	0	0	0	0
5/8/2024 12:53	67204	TEHI_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
5/8/2024 12:54	64101	REFR_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
5/8/2024 12:54	54001	SDLE_T1	21	21	0	0.98	0.94	-0.04	0	0	0	0	0	0	0	0
5/8/2024 12:55	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 12:55	21206	ECAR_T2	1	3	2	7.4	3.8	-3.6	1.83	1.72	0	0	0	0	0	0
5/8/2024 12:58	67605	WARW_T1	1	1	0	0.9	2.1	1.2	-0.84	-0.84	0	0	0	0	0	0
5/8/2024 12:58	27101	GFLD_T2	1	1	0	0.4	0	-0.4	0.13	-0.75	0	0	0	0	0	0
5/8/2024 12:58	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/8/2024 12:58	27102	GFLD_T2	1	4	3	0.2	0.55	0.35	0	0	0	0	0	0	0	0
5/8/2024 12:59	64101	REFR_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
5/8/2024 13:02	40101	HUNT_T2	3	3	0	0.3	0.5	0.2	-0.28	-0.34	0	0	0	0	0	0
5/8/2024 13:06	14802	TREI_T2	0	1	1	0	0.4	0.4	0.59	0.62	0	0	0	0	0	0
5/8/2024 13:06	14801	TREI_T2	0	4	4	0	0.55	0.55	0	0	0	0	0	0	0	0
5/8/2024 13:08	14802	TREI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/8/2024 13:08	14801	TREI_T2	0	4	4	0	0.55	0.55	0.59	0.59	0	0	0	0	0	0
5/8/2024 13:08	64101	REFR_T1	0	0	0	0	0	0	0.11	0.16	0	0	0	0	0	0
5/8/2024 13:09	58401	MORO_T1	0	119	119	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 13:09	44301	BEAV_T2	14	17	3	0.49	0.35	-0.14	0.05	0.2	2	2	0	1500	1500	0
5/8/2024 13:09	67204	TEHI_T2	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
5/8/2024 13:09	45902	AUBU_T1	0	1	1	0	0.6	0.6	-0.41	-0.39	1	1	0	600	600	0
5/8/2024 13:09	58402	MORO_T1	0	0	0	0	0	0	-0.87	-0.83	3	3	0	2400	2400	0
5/8/2024 13:09	64101	REFR_T1	0	0	0	0	0	0	0.11	0.16	0	0	0	0	0	0
5/8/2024 13:10	67603	WARW_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/8/2024 13:10	67605	WARW_T1	1	1	0	1.2	2.3	1.1	0	0	0	0	0	0	0	0
5/8/2024 13:10	45402	WBLO_T2	4	4	0	0.55	0.8	0.25	-1.38	-1.37	1	1	0	900	900	0
5/8/2024 13:10	64101	REFR_T1	0	0	0	0	0	0	0.21	0.31	0	0	0	0	0	0
5/8/2024 13:10	67604	WARW_T1	0	0	0	0	0	0	0.48	0.53	0	0	0	0	0	0
5/8/2024 13:10	67204	TEHI_T2	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
5/8/2024 13:12	40101	HUNT_T2	3	3	0	0.3	0.5	0.2	-0.34	-0.3	0	0	0	0	0	0
5/8/2024 13:14	45902	AUBU_T1	0	1	1	0	0.6	0.6	-0.82	-0.77	2	2	0	1200	1200	0
5/8/2024 13:14	10805	CHHI_T2	17	14	-3	1.35	0.65	-0.7	-0.42	-0.63	1	1	0	600	600	0
5/8/2024 13:14	64101	REFR_T1	0	0	0	0	0	0	0.11	0.16	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/8/2024 13:16	40901	JESH_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
5/8/2024 13:16	40902	JESH_T1	0	0	0	0	0	0	-0.44	-0.45	2	2	0	1200	1200	0
5/8/2024 13:17	56504	ROCK_T2	1	4	3	0.1	0.68	0.58	0	0	0	0	0	0	0	0
5/8/2024 13:17	56501	ROCK_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
5/8/2024 13:19	45902	AUBU_T1	1	1	0	0.2	0.6	0.4	-0.41	-0.39	1	1	0	600	600	0
5/8/2024 13:20	51004	NHAR_T1	3	5	2	3.93	1.46	-2.47	0	0	0	0	0	0	0	0
5/8/2024 13:20	47403	PENS_T1	1	8	7	0.2	0.96	0.76	0	0	0	0	0	0	0	0
5/8/2024 13:20	42903	MIDD_T2	0	0	0	0	0	0	1.1	1.15	1	1	0	1200	1200	0
5/8/2024 13:20	47401	PENS_T1	2	3	1	0.25	0.85	0.6	1.7	1.64	0	0	0	0	0	0
5/8/2024 13:20	51003	NHAR_T1	0	0	0	0	0	0	-2.77	-2.59	1	1	0	1200	1200	0
5/8/2024 13:20	42902	MIDD_T2	1	3	2	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
5/8/2024 13:20	47402	PENS_T1	1	3	2	0.1	0.85	0.75	0	0	0	0	0	0	0	0
5/8/2024 13:23	61506	EPET_T2	0	0	0	0	0	0	-1.43	-1.47	2	2	0	1800	1800	0
5/8/2024 13:23	61501	EPET_T2	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
5/8/2024 13:24	57403	SPAN_T1	1	2	1	0.3	0.6	0.3	0.26	0.29	0	0	0	0	0	0
5/8/2024 13:24	58401	MORO_T1	0	119	119	0	0	0	-0.49	-0.75	1	1	0	600	600	0
5/8/2024 13:24	50506	MECH_T1	1	1	0	0.1	1.9	1.8	0.41	0.39	1	1	0	900	900	0
5/8/2024 13:24	45902	AUBU_T1	1	1	0	0.2	0.6	0.4	-0.77	-0.84	2	2	0	1200	1200	0
5/8/2024 13:24	50502	MECH_T1	1	1	0	0.5	1.6	1.1	0	0	0	0	0	0	0	0
5/8/2024 13:24	50503	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/8/2024 13:24	57401	SPAN_T1	3	3	0	0.57	0.6	0.03	0	0	0	0	0	0	0	0
5/8/2024 13:24	64101	REFR_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
5/8/2024 13:24	50501	MECH_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/8/2024 13:25	51109	CARL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/8/2024 13:25	64101	REFR_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
5/8/2024 13:25	51102	CARL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/8/2024 13:25	48302	ORWI_T2	2	2	0	1.2	0.95	-0.25	0	0	0	0	0	0	0	0
5/8/2024 13:25	58402	MORO_T1	0	0	0	0	0	0	-0.83	-0.88	3	3	0	2400	2400	0
5/8/2024 13:25	51108	CARL_T1	0	0	0	0	0	0	-0.79	-0.86	1	1	0	600	600	0
5/8/2024 13:25	58401	MORO_T1	0	119	119	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 13:26	56501	ROCK_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
5/8/2024 13:26	60102	COCA_T1	0	0	0	0	0	0	-0.82	-0.77	3	3	0	2100	2100	0
5/8/2024 13:26	51109	CARL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/8/2024 13:26	57005	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/8/2024 13:26	57403	SPAN_T1	1	2	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/8/2024 13:26	56504	ROCK_T2	1	4	3	0.1	0.68	0.58	0	0	0	0	0	0	0	0
5/8/2024 13:26	57401	SPAN_T1	3	3	0	0.57	0.6	0.03	-0.68	-0.66	1	1	0	600	600	0
5/8/2024 13:26	51107	CARL_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
5/8/2024 13:26	57006	WHHI_T2	1	2	1	1	0.7	-0.3	1.25	1.26	0	0	0	0	0	0
5/8/2024 13:26	51102	CARL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/8/2024 13:26	57003	WHHI_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/8/2024 13:26	60101	COCA_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/8/2024 13:27	10704	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/8/2024 13:27	62102	ELAN_T1	0	0	0	0	0	0	1.15	1.15	0	0	0	0	0	0
5/8/2024 13:27	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/8/2024 13:27	10707	CATA_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
5/8/2024 13:27	10702	CATA_T2	0	0	0	0	0	0	0.31	-0.1	0	0	0	0	0	0
5/8/2024 13:28	45902	AUBU_T1	1	1	0	0.2	0.6	0.4	-0.39	-0.42	1	1	0	600	600	0
5/8/2024 13:28	67603	WARW_T1	1	1	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
5/8/2024 13:28	67605	WARW_T1	1	1	0	2.1	2.3	0.2	-0.79	-0.76	0	0	0	0	0	0
5/8/2024 13:29	45902	AUBU_T1	1	1	0	0.2	0.6	0.4	-0.39	-0.42	1	1	0	600	600	0
5/8/2024 13:30	64101	REFR_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
5/8/2024 13:30	45902	AUBU_T1	1	1	0	0.6	0.7	0.1	-0.39	-0.42	1	1	0	600	600	0
5/8/2024 13:32	54601	SUMM_T2	0	0	0	0	0	0	-1.39	-1.39	2	2	0	2100	2100	0
5/8/2024 13:32	54602	SUMM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 13:32	13503	MCMI_T2	6	3	-3	0.43	0.53	0.1	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 13:33	67603	WARW_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
5/8/2024 13:33	67605	WARW_T1	1	1	0	2.3	2.1	-0.2	-0.79	-0.76	0	0	0	0	0	0
5/8/2024 13:36	57005	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 13:36	57003	WHHI_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
5/8/2024 13:36	57006	WHHI_T2	2	1	-1	0.7	0.4	-0.3	1.25	1.26	0	0	0	0	0	0
5/8/2024 13:40	64101	REFR_T1	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
5/8/2024 13:40	45902	AUBU_T1	1	1	0	0.6	0.7	0.1	-0.84	-1.19	2	2	0	1200	1200	0
5/8/2024 13:41	67801	WLAN_T1	0	131	131	0	0	0	0.12	0	0	0	0	0	0	0
5/8/2024 13:41	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/8/2024 13:43	67605	WARW_T1	1	1	0	2.3	2.1	-0.2	-0.76	-0.73	0	0	0	0	0	0
5/8/2024 13:43	56803	BENV_T1	12	94	82	0.83	0.74	-0.09	0.02	0.02	2	2	0	1200	1200	0
5/8/2024 13:43	56801	BENV_T1	38	33	-5	0.62	0.63	0.01	0	0	0	0	0	0	0	0
5/8/2024 13:43	67603	WARW_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
5/8/2024 13:44	67605	WARW_T1	1	1	0	2.3	2.1	-0.2	0	0	0	0	0	0	0	0
5/8/2024 13:44	67603	WARW_T1	1	1	0	0.6	1	0.4	0.52	0.64	0	0	0	0	0	0
5/8/2024 13:45	45902	AUBU_T1	0	1	1	0	0.7	0.7	-0.84	-1.19	2	2	0	1200	1200	0
5/8/2024 13:46	48302	ORWI_T2	2	2	0	0.85	0.8	-0.05	-0.36	-0.33	0	0	0	0	0	0
5/8/2024 13:46	64101	REFR_T1	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
5/8/2024 13:47	28403	HART_T2	0	0	0	0	0	0	-0.69	-0.68	1	1	0	900	900	0
5/8/2024 13:48	67605	WARW_T1	1	1	0	2.1	1.8	-0.3	-0.76	-0.73	0	0	0	0	0	0
5/8/2024 13:48	65401	MARI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 13:48	67603	WARW_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
5/8/2024 13:48	65402	MARI_T1	3	0	-3	0.43	0.63	0.2	-0.99	-0.96	0	0	0	0	0	0
5/8/2024 13:51	64101	REFR_T1	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
5/8/2024 13:55	43802	SWIL_T1	0	4	4	0	0.5	0.5	0.01	0.01	1	1	0	600	600	0
5/8/2024 13:55	43801	SWIL_T1	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
5/8/2024 13:56	57403	SPAN_T1	1	1	0	3.3	7.6	4.3	0.21	0.14	0	0	0	0	0	0
5/8/2024 13:56	57401	SPAN_T1	2	2	0	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
5/8/2024 13:56	41601	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 13:56	41602	CLEV_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/8/2024 13:56	64101	REFR_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
5/8/2024 13:58	41601	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 13:58	41602	CLEV_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/8/2024 13:58	67605	WARW_T1	1	1	0	2.1	1.8	-0.3	-0.73	-0.73	0	0	0	0	0	0
5/8/2024 13:58	67603	WARW_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
5/8/2024 13:59	44503	HAMI_T2	0	0	0	0	0	0	-1.49	-1.45	1	1	0	1200	1200	0
5/8/2024 13:59	44504	HAMI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/8/2024 13:59	44505	HAMI_T2	1	6	5	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
5/8/2024 13:59	44502	HAMI_T2	1	1	0	1.8	2.7	0.9	0	0	0	0	0	0	0	0
5/8/2024 14:00	44504	HAMI_T2	2	2	0	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
5/8/2024 14:00	44505	HAMI_T2	6	6	0	0.37	0.43	0.06	0	0	0	0	0	0	0	0
5/8/2024 14:00	44503	HAMI_T2	0	0	0	0	0	0	-1.49	-1.45	1	1	0	1200	1200	0
5/8/2024 14:00	44502	HAMI_T2	1	1	0	2.5	2.7	0.2	0	0	0	0	0	0	0	0
5/8/2024 14:03	67603	WARW_T1	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
5/8/2024 14:03	67605	WARW_T1	1	1	0	1.7	1.8	0.1	-0.73	-0.73	0	0	0	0	0	0
5/8/2024 14:07	67204	TEHI_T2	0	0	0	0	0	0	-0.27	0.08	0	0	0	0	0	0
5/8/2024 14:07	64101	REFR_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
5/8/2024 14:08	67204	TEHI_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
5/8/2024 14:08	21206	ECAR_T2	2	2	0	4.4	4.15	-0.25	0.57	0.6	0	0	0	0	0	0
5/8/2024 14:08	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 14:10	51304	WIND_T2	0	0	0	0	0	0	0.72	0.62	0	0	0	0	0	0
5/8/2024 14:11	43201	MVIL_T2	0	1	1	0	0.5	0.5	-0.19	-0.17	0	0	0	0	0	0
5/8/2024 14:11	43202	MVIL_T2	3	4	1	0.47	0.28	-0.19	0	0	0	0	0	0	0	0
5/8/2024 14:11	26001	WDAM_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
5/8/2024 14:12	45902	AUBU_T1	1	1	0	0.7	1	0.3	-1	-1.09	2	2	0	1200	1200	0
5/8/2024 14:12	64101	REFR_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
5/8/2024 14:13	67605	WARW_T1	1	1	0	1.7	1.8	0.1	-0.73	-0.64	0	0	0	0	0	0
5/8/2024 14:13	67603	WARW_T1	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
5/8/2024 14:15	28805	LAKE_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
5/8/2024 14:17	45902	AUBU_T1	1	1	0	0.7	1	0.3	-1	-1.09	2	2	0	1200	1200	0
5/8/2024 14:17	60605	NCOL_T2	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
5/8/2024 14:18	67605	WARW_T1	1	1	0	1.8	1.4	-0.4	-0.73	-0.64	0	0	0	0	0	0
5/8/2024 14:18	67603	WARW_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/8/2024 14:23	64101	REFR_T1	0	0	0	0	0	0	0.53	0.59	0	0	0	0	0	0
5/8/2024 14:23	45402	WBLO_T2	3	4	1	0.97	0.98	0.01	-1.36	-1.36	1	1	0	900	900	0
5/8/2024 14:23	15001	BLMO_T1	3	1	-2	0.23	0.3	0.07	0	0	0	0	0	0	0	0
5/8/2024 14:26	44301	BEAV_T2	10	13	3	0.6	0.4	-0.2	-0.65	0.41	2	1	-1	1500	600	-900
5/8/2024 14:26	45402	WBLO_T2	3	4	1	0.97	0.98	0.01	-1.36	-1.34	1	1	0	900	900	0
5/8/2024 14:26	45501	DERR_T2	1	1	0	1	0.9	-0.1	0.8	0.78	2	2	0	1800	1800	0
5/8/2024 14:27	45902	AUBU_T1	1	1	0	0.7	1	0.3	-0.55	-0.43	1	1	0	600	600	0
5/8/2024 14:28	67605	WARW_T1	1	1	0	1.8	1.4	-0.4	-0.64	-0.64	0	0	0	0	0	0
5/8/2024 14:28	64101	REFR_T1	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
5/8/2024 14:28	56501	ROCK_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/8/2024 14:28	67603	WARW_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/8/2024 14:28	45902	AUBU_T1	1	1	0	0.7	1	0.3	-0.55	-0.43	1	1	0	600	600	0
5/8/2024 14:28	56504	ROCK_T2	0	3	3	0	0.77	0.77	0	0	0	0	0	0	0	0
5/8/2024 14:29	56803	BENV_T1	155	184	29	0.69	0.78	0.09	0	0	1	1	0	600	600	0
5/8/2024 14:29	56801	BENV_T1	25	22	-3	0.57	0.63	0.06	0	0	0	0	0	0	0	0
5/8/2024 14:31	56801	BENV_T1	22	19	-3	0.62	0.64	0.02	0	0	0	0	0	0	0	0
5/8/2024 14:31	56803	BENV_T1	184	208	24	0.7	0.81	0.11	0	0	1	1	0	600	600	0
5/8/2024 14:31	47001	HUGH_T2	1	1	0	0.5	0.6	0.1	-0.44	-0.36	0	0	0	0	0	0
5/8/2024 14:33	45902	AUBU_T1	1	1	0	1	0.8	-0.2	-1.09	-0.87	2	2	0	1200	1200	0
5/8/2024 14:33	67603	WARW_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
5/8/2024 14:33	67605	WARW_T1	1	1	0	1.3	1.4	0.1	-0.64	-0.64	0	0	0	0	0	0
5/8/2024 14:33	12701	MACU_T1	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
5/8/2024 14:35	12701	MACU_T1	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
5/8/2024 14:38	64101	REFR_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
5/8/2024 14:39	64101	REFR_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
5/8/2024 14:41	45501	DERR_T2	1	1	0	1.1	0.9	-0.2	0.78	0.77	2	2	0	1800	1800	0
5/8/2024 14:43	45902	AUBU_T1	1	1	0	1	0.8	-0.2	-0.87	-0.9	2	2	0	1200	1200	0
5/8/2024 14:43	64101	REFR_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
5/8/2024 14:46	57304	MOAL_T2	1	0	-1	0.2	0	-0.2	-0.13	-0.13	0	0	0	0	0	0
5/8/2024 14:46	56504	ROCK_T2	3	1	-2	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/8/2024 14:46	56501	ROCK_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/8/2024 14:46	57303	MOAL_T2	1	1	0	7.3	7.4	0.1	0	0	0	0	0	0	0	0
5/8/2024 14:46	57306	MOAL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/8/2024 14:47	57306	MOAL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/8/2024 14:47	13302	ORVI_T2	3	2	-1	1.13	1.5	0.37	0.72	0.74	0	0	0	0	0	0
5/8/2024 14:47	44301	BEAV_T2	1	1	0	0.9	0.8	-0.1	0.41	0.31	1	1	0	600	600	0
5/8/2024 14:47	57304	MOAL_T2	1	0	-1	0.2	0	-0.2	-0.13	-0.13	0	0	0	0	0	0
5/8/2024 14:47	57303	MOAL_T2	1	1	0	7.3	7.4	0.1	0	0	0	0	0	0	0	0
5/8/2024 14:48	54203	PENN_T1	5	6	1	0.78	0.6	-0.18	0	0	0	0	0	0	0	0
5/8/2024 14:48	54201	PENN_T1	4	3	-1	0.63	0.73	0.1	-0.46	-0.45	0	0	0	0	0	0
5/8/2024 14:48	57306	MOAL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/8/2024 14:48	45902	AUBU_T1	1	1	0	0.8	0.5	-0.3	-0.87	-0.9	2	2	0	1200	1200	0
5/8/2024 14:48	57303	MOAL_T2	1	1	0	7.3	7.4	0.1	0	0	0	0	0	0	0	0
5/8/2024 14:48	57304	MOAL_T2	1	0	-1	0.2	0	-0.2	-0.13	-0.13	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/8/2024 14:50	13606	RICH_T2	1	1	0	8	7.9	-0.1	1.52	1.52	0	0	0	0	0	0
5/8/2024 14:51	66505	SMAN_T2	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
5/8/2024 14:51	66502	SMAN_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
5/8/2024 14:51	66504	SMAN_T2	0	0	0	0	0	0	-1.78	-1.5	2	2	0	2400	2400	0
5/8/2024 14:51	66501	SMAN_T2	2	2	0	0.65	0.35	-0.3	0	0	0	0	0	0	0	0
5/8/2024 14:54	57404	SPAN_T2	0	0	0	0	0	0	-0.27	-0.16	1	1	0	1200	1200	0
5/8/2024 14:54	64101	REFR_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
5/8/2024 14:54	29402	BELT_T1	0	67	67	0	0.42	0.42	0	0	0	0	0	0	0	0
5/8/2024 14:54	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/8/2024 14:54	41601	CLEV_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
5/8/2024 14:54	41602	CLEV_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/8/2024 14:55	41602	CLEV_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/8/2024 14:55	41601	CLEV_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
5/8/2024 14:56	45501	DERR_T2	1	1	0	0.9	1	0.1	0.77	0.83	2	2	0	1800	1800	0
5/8/2024 14:58	58402	MORO_T1	0	0	0	0	0	0	-0.78	-0.75	3	3	0	2400	2400	0
5/8/2024 14:59	64101	REFR_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
5/8/2024 15:00	58402	MORO_T1	0	0	0	0	0	0	-0.78	-0.75	3	3	0	2400	2400	0
5/8/2024 15:01	59101	WALK_T2	0	0	0	0	0	0	2.2	2.26	0	0	0	0	0	0
5/8/2024 15:01	56801	BENV_T1	13	11	-2	0.67	0.66	-0.01	0	0	0	0	0	0	0	0
5/8/2024 15:01	53903	HALI_T2	7	6	-1	1.06	0.73	-0.33	0	0	0	0	0	0	0	0
5/8/2024 15:01	53902	HALI_T2	3	3	0	2.13	2.07	-0.06	0	0	0	0	0	0	0	0
5/8/2024 15:01	13503	MCMI_T2	2	1	-1	0.4	0.7	0.3	0.03	0.03	0	0	0	0	0	0
5/8/2024 15:01	58402	MORO_T1	0	0	0	0	0	0	-0.78	-0.75	3	3	0	2400	2400	0
5/8/2024 15:01	59102	WALK_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
5/8/2024 15:01	65901	SAKR_T2	1	1	0	8.2	8.1	-0.1	-0.86	-0.97	2	2	0	1500	1500	0
5/8/2024 15:01	47001	HUGH_T2	1	1	0	0.5	0.1	-0.4	-0.35	-0.35	0	0	0	0	0	0
5/8/2024 15:01	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 15:01	56803	BENV_T1	208	178	-30	1.07	0.64	-0.43	0.01	0.01	1	1	0	600	600	0
5/8/2024 15:01	50506	MECH_T1	0	0	0	0	0	0	0.43	0.38	1	1	0	900	900	0
5/8/2024 15:01	50502	MECH_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
5/8/2024 15:01	53901	HALI_T2	4	3	-1	0.38	0.3	-0.08	-1.17	-1.21	0	0	0	0	0	0
5/8/2024 15:01	29402	BELT_T1	67	31	-36	0.42	0.29	-0.13	0	0	0	0	0	0	0	0
5/8/2024 15:01	67703	WERN_T2	0	0	0	0	0	0	0.34	-0.28	1	1	0	900	900	0
5/8/2024 15:01	48302	ORWI_T2	2	2	0	0.9	0.85	-0.05	-0.32	-0.37	0	0	0	0	0	0
5/8/2024 15:05	57006	WHHI_T2	2	1	-1	0.65	0.9	0.25	1.04	1.04	1	1	0	600	600	0
5/8/2024 15:05	57002	WHHI_T2	1	0	-1	2.8	0	-2.8	0	0	0	0	0	0	0	0
5/8/2024 15:05	57003	WHHI_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 15:08	56504	ROCK_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
5/8/2024 15:09	45902	AUBU_T1	1	1	0	0.4	0.5	0.1	-0.95	-1.1	2	2	0	1200	1200	0
5/8/2024 15:09	49804	UNIV_T1	2	2	0	0.3	0.45	0.15	0.96	1.03	0	0	0	0	0	0
5/8/2024 15:09	49803	UNIV_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/8/2024 15:10	64101	REFR_T1	0	0	0	0	0	0	0.62	0.69	0	0	0	0	0	0
5/8/2024 15:11	64101	REFR_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
5/8/2024 15:13	10805	CHHI_T2	13	4	-9	1.02	9.4	8.38	-0.63	-0.68	1	1	0	600	600	0
5/8/2024 15:14	45902	AUBU_T1	1	1	0	0.4	0.5	0.1	-0.48	-0.55	1	1	0	600	600	0
5/8/2024 15:15	64101	REFR_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
5/8/2024 15:15	45902	AUBU_T1	1	1	0	0.5	0.4	-0.1	-0.48	-0.55	1	1	0	600	600	0
5/8/2024 15:16	46802	HEPB_T1	1	1	0	0.7	0.7	0	0.01	0.04	0	0	0	0	0	0
5/8/2024 15:20	65604	QVIL_T2	0	0	0	0	0	0	0.67	0.65	0	0	0	0	0	0
5/8/2024 15:25	65604	QVIL_T2	0	0	0	0	0	0	0.65	0.71	0	0	0	0	0	0
5/8/2024 15:25	45902	AUBU_T1	1	1	0	0.5	0.4	-0.1	-1.1	-1.05	2	2	0	1200	1200	0
5/8/2024 15:25	64101	REFR_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
5/8/2024 15:26	64101	REFR_T1	0	0	0	0	0	0	0.46	0.5	0	0	0	0	0	0
5/8/2024 15:27	45902	AUBU_T1	1	1	0	0.5	0.4	-0.1	-0.55	-0.52	1	1	0	600	600	0
5/8/2024 15:29	67605	WARW_T1	1	1	0	0.8	0.7	-0.1	-0.81	-0.81	0	0	0	0	0	0
5/8/2024 15:29	67603	WARW_T1	2	1	-1	1.3	0.1	-1.2	0	0	0	0	0	0	0	0
5/8/2024 15:29	62105	ELM_T1	0	0	0	0	0	0	0.91	0.87	0	0	0	0	0	0
5/8/2024 15:30	45902	AUBU_T1	1	1	0	0.3	0.5	0.2	-1.1	-1.05	2	2	0	1200	1200	0
5/8/2024 15:31	21204	ECAR_T2	1	1	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
5/8/2024 15:31	64101	REFR_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
5/8/2024 15:31	21206	ECAR_T2	3	1	-2	2.83	7.4	4.57	0	0	0	0	0	0	0	0
5/8/2024 15:32	42902	MIDD_T2	5	7	2	0.34	0.46	0.12	-0.73	-0.83	1	1	0	600	600	0
5/8/2024 15:32	42903	MIDD_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
5/8/2024 15:33	67605	WARW_T1	1	1	0	0.7	0.6	-0.1	-0.81	-0.81	0	0	0	0	0	0
5/8/2024 15:33	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 15:37	61102	BERK_T5	0	0	0	0	0	0	0.75	0.53	1	1	0	300	300	0
5/8/2024 15:38	47403	PENS_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/8/2024 15:38	47402	PENS_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/8/2024 15:38	51109	CARL_T1	0	0	0	0	0	0	-1.96	-1.95	1	1	0	1200	1200	0
5/8/2024 15:38	51108	CARL_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/8/2024 15:38	47401	PENS_T1	2	2	0	0.25	0.3	0.05	1.71	1.7	0	0	0	0	0	0
5/8/2024 15:40	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 15:40	64101	REFR_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
5/8/2024 15:40	67605	WARW_T1	1	1	0	0.7	0.6	-0.1	-0.81	-0.81	0	0	0	0	0	0
5/8/2024 15:41	45902	AUBU_T1	1	1	0	0.3	0.5	0.2	-1.05	-1.12	2	2	0	1200	1200	0
5/8/2024 15:42	64101	REFR_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
5/8/2024 15:43	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 15:43	67605	WARW_T1	1	1	0	0.7	0.6	-0.1	-0.81	-0.81	0	0	0	0	0	0
5/8/2024 15:44	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 15:44	67605	WARW_T1	1	1	0	0.7	0.6	-0.1	-0.81	-0.81	0	0	0	0	0	0
5/8/2024 15:46	45902	AUBU_T1	1	1	0	0.4	0.5	0.1	-1.05	-1.12	2	2	0	1200	1200	0
5/8/2024 15:47	61102	BERK_T5	0	0	0	0	0	0	0.53	0.56	1	1	0	300	300	0
5/8/2024 15:48	67605	WARW_T1	1	1	0	0.6	0.3	-0.3	-0.81	-0.81	0	0	0	0	0	0
5/8/2024 15:52	64101	REFR_T1	0	2	2	0	0	0	0.25	0.26	0	0	0	0	0	0
5/8/2024 15:53	56802	BENV_T2	127	127	0	0.26	0.25	-0.01	-0.27	-0.33	0	0	0	0	0	0
5/8/2024 15:54	56802	BENV_T2	127	127	0	0.26	0.25	-0.01	-0.55	-0.66	0	0	0	0	0	0
5/8/2024 15:54	56803	BENV_T1	203	95	-108	0.84	0.56	-0.28	0	0	0	0	0	0	0	0
5/8/2024 15:54	56801	BENV_T1	8	12	4	0.64	0.46	-0.18	0.16	0.16	0	0	0	0	0	0
5/8/2024 15:56	56802	BENV_T2	127	127	0	0.26	0.25	-0.01	-1.1	-1.32	0	0	0	0	0	0
5/8/2024 15:57	45902	AUBU_T1	1	1	0	0.4	0.5	0.1	-1.12	-1.11	2	2	0	1200	1200	0
5/8/2024 15:57	56802	BENV_T2	127	127	0	0.26	0.25	-0.01	-0.55	-0.66	0	0	0	0	0	0
5/8/2024 15:57	64101	REFR_T1	0	2	2	0	0	0	0.26	0.25	0	0	0	0	0	0
5/8/2024 15:58	56801	BENV_T1	8	12	4	0.64	0.46	-0.18	0.16	0.16	0	0	0	0	0	0
5/8/2024 15:58	56802	BENV_T2	127	127	0	0.26	0.25	-0.01	-1.37	-1.65	0	0	0	0	0	0
5/8/2024 15:58	56803	BENV_T1	203	95	-108	0.84	0.56	-0.28	0.03	0.03	1	1	0	600	600	0
5/8/2024 15:58	67605	WARW_T1	1	1	0	0.6	0.3	-0.3	-0.81	-0.78	0	0	0	0	0	0
5/8/2024 15:59	56802	BENV_T2	127	127	0	0.26	0.25	-0.01	-0.82	-0.99	0	0	0	0	0	0
5/8/2024 16:00	56802	BENV_T2	119	80	-39	0.25	0.27	0.02	-0.55	-0.66	0	0	0	0	0	0
5/8/2024 16:01	20603	GRWO_T2	0	6	6	0	1.9	1.9	0.44	0.48	0	0	0	0	0	0
5/8/2024 16:02	45902	AUBU_T1	1	1	0	0.5	0.4	-0.1	-1.12	-1.11	2	2	0	1200	1200	0
5/8/2024 16:03	67605	WARW_T1	1	1	0	0.3	0.2	-0.1	-0.81	-0.78	0	0	0	0	0	0
5/8/2024 16:06	26001	WDAM_T1	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
5/8/2024 16:09	56802	BENV_T2	119	80	-39	0.25	0.27	0.02	-0.33	-0.3	0	0	0	0	0	0
5/8/2024 16:12	56802	BENV_T2	119	80	-39	0.25	0.27	0.02	-0.33	-0.3	0	0	0	0	0	0
5/8/2024 16:13	67605	WARW_T1	1	1	0	0.3	0.2	-0.1	-0.78	-0.8	0	0	0	0	0	0
5/8/2024 16:14	56802	BENV_T2	119	80	-39	0.25	0.27	0.02	-0.33	-0.3	0	0	0	0	0	0
5/8/2024 16:15	56802	BENV_T2	80	45	-35	0.27	0.29	0.02	-0.33	-0.3	0	0	0	0	0	0
5/8/2024 16:15	41204	KENM_T2	0	0	0	0	0	0	0.66	0.7	0	0	0	0	0	0
5/8/2024 16:18	67603	WARW_T1	1	0	-1	2.4	0	-2.4	0	0	0	0	0	0	0	0
5/8/2024 16:18	42903	MIDD_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
5/8/2024 16:18	42902	MIDD_T2	2	1	-1	0.4	0.6	0.2	-1	-1.05	1	1	0	600	600	0
5/8/2024 16:18	67605	WARW_T1	1	0	-1	0.2	0	-0.2	-0.78	-0.8	0	0	0	0	0	0
5/8/2024 16:19	51402	LYKE_T1	6	8	2	0.1	0.11	0.01	-2.02	-2.03	2	2	0	1200	1200	0
5/8/2024 16:23	20603	GRWO_T2	0	6	6	0	0	0	0.53	0.51	0	0	0	0	0	0
5/8/2024 16:28	67605	WARW_T1	1	0	-1	0.2	0	-0.2	-0.8	-0.73	0	0	0	0	0	0
5/8/2024 16:28	67603	WARW_T1	1	0	-1	2.4	0	-2.4	0	0	0	0	0	0	0	0
5/8/2024 16:28	56802	BENV_T2	80	45	-35	0.27	0.29	0.02	-0.3	-0.29	0	0	0	0	0	0
5/8/2024 16:29	56802	BENV_T2	80	45	-35	0.27	0.29	0.02	-0.3	-0.29	0	0	0	0	0	0
5/8/2024 16:31	56802	BENV_T2	19	45	26	0.42	0.29	-0.13	-0.3	-0.29	0	0	0	0	0	0
5/8/2024 16:33	67605	WARW_T1	0	0	0	0	0	0	-0.8	-0.73	0	0	0	0	0	0
5/8/2024 16:38	65205	PRIN_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
5/8/2024 16:42	63401	HONY_T1	0	0	0	0	0	0	0.27	0.2	1	1	0	600	600	0
5/8/2024 16:43	63402	HONY_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
5/8/2024 16:43	63403	HONY_T2	1	0	-1	0.4	0	-0.4	-0.82	-0.81	1	1	0	600	600	0
5/8/2024 16:44	61302	EARL_T1	0	0	0	0	0	0	-0.01	-0.06	3	3	0	2700	2700	0
5/8/2024 16:44	43202	MVIL_T2	0	53	53	0	0.37	0.37	-0.54	-0.53	0	0	0	0	0	0
5/8/2024 16:46	51401	LYKE_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
5/8/2024 16:47	21206	ECAR_T2	7	5	-2	1.41	7.6	6.19	-0.02	-0.05	0	0	0	0	0	0
5/8/2024 16:47	28805	LAKE_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
5/8/2024 16:47	28803	LAKE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 16:47	63401	HONY_T1	0	0	0	0	0	0	0.27	0.2	1	1	0	600	600	0
5/8/2024 16:47	56504	ROCK_T2	3	2	-1	0.6	0.85	0.25	0	0	0	0	0	0	0	0
5/8/2024 16:47	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 16:47	43202	MVIL_T2	2	53	51	0.35	0.37	0.02	-0.54	-0.53	0	0	0	0	0	0
5/8/2024 16:47	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 16:49	63401	HONY_T1	0	0	0	0	0	0	0.27	0.2	1	1	0	600	600	0
5/8/2024 16:50	42201	SHEN_T2	2	2	0	0.5	0.1	-0.4	0.16	0.13	1	1	0	600	600	0
5/8/2024 16:51	51401	LYKE_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
5/8/2024 17:02	56504	ROCK_T2	2	2	0	0.85	0.1	-0.75	0	0	0	0	0	0	0	0
5/8/2024 17:02	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 17:02	51401	LYKE_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
5/8/2024 17:03	54201	PENN_T1	4	3	-1	0.4	1.07	0.67	0	0	0	0	0	0	0	0
5/8/2024 17:03	54203	PENN_T1	5	5	0	0.7	0.48	-0.22	0.69	0.61	0	0	0	0	0	0
5/8/2024 17:07	51401	LYKE_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
5/8/2024 17:12	56802	BENV_T2	16	13	-3	0.35	0.38	0.03	-0.3	-0.27	0	0	0	0	0	0
5/8/2024 17:13	11103	EGYP_T1	0	0	0	0	0	0	0.54	0.57	0	0	0	0	0	0
5/8/2024 17:13	11102	EGYP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/8/2024 17:14	11103	EGYP_T1	0	0	0	0	0	0	0.54	0.57	0	0	0	0	0	0
5/8/2024 17:14	11102	EGYP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/8/2024 17:14	43202	MVIL_T2	53	53	0	0.37	0.33	-0.04	-0.58	-0.6	0	0	0	0	0	0
5/8/2024 17:17	59002	MIFF_T1	6	6	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/8/2024 17:17	59001	MIFF_T1	3	1	-2	0.77	0.9	0.13	0	0	0	0	0	0	0	0
5/8/2024 17:17	59003	MIFF_T1	0	1	1	0	2	2	-0.07	0.82	0	0	0	0	0	0
5/8/2024 17:19	60502	NMAN_T2	0	7	7	0	0.14	0.14	0	0	0	0	0	0	0	0
5/8/2024 17:19	60501	NMAN_T2	3	32	29	3.93	0.62	-3.31	0	0	0	0	0	0	0	0
5/8/2024 17:19	60504	NMAN_T2	0	2	2	0	0.35	0.35	0.04	1.33	1	0	-1	1200	0	-1200
5/8/2024 17:24	29402	BELT_T1	1	1	0	8.6	9	0.4	0	0	0	0	0	0	0	0
5/8/2024 17:24	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 17:26	64101	REFR_T1	0	0	0	0	0	0	0.29	-0.3	0	0	0	0	0	0
5/8/2024 17:27	29402	BELT_T1	1	1	0	8.6	9	0.4	0	0	0	0	0	0	0	0
5/8/2024 17:27	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 17:27	60902	DONG_T2	0	0	0	0	0	0	1.2	0.6	0	0	0	0	0	0
5/8/2024 17:27	64101	REFR_T1	0	0	0	0	0	0	0.29	-0.3	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/8/2024 17:28	67804	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/8/2024 17:28	67801	WLAN_T1	0	1	1	0	0	0	0.26	0.28	0	0	0	0	0	0
5/8/2024 17:30	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.31	-0.3	0	0	0	0	0	0
5/8/2024 17:31	64101	REFR_T1	0	0	0	0	0	0	0.29	-0.3	0	0	0	0	0	0
5/8/2024 17:31	65004	NEFF_T2	0	0	0	0	0	0	-0.53	-0.52	1	1	0	600	600	0
5/8/2024 17:37	64101	REFR_T1	0	0	0	0	0	0	0.29	-0.3	0	0	0	0	0	0
5/8/2024 17:39	24801	VALM_T1	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
5/8/2024 17:42	67702	WERN_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
5/8/2024 17:43	67605	WARW_T1	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
5/8/2024 17:44	67702	WERN_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
5/8/2024 17:47	23201	HIRU_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/8/2024 17:47	46101	MACI_T2	0	0	0	0	0	0	-0.53	-0.54	1	1	0	1200	1200	0
5/8/2024 17:47	23202	HIRU_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
5/8/2024 17:48	67605	WARW_T1	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
5/8/2024 17:49	56501	ROCK_T2	0	2	2	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 17:49	51401	LYKE_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
5/8/2024 17:54	41903	REED_T1	0	0	0	0	0	0	0.18	0.08	1	1	0	1200	1200	0
5/8/2024 17:54	41902	REED_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/8/2024 17:54	51401	LYKE_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
5/8/2024 17:54	41901	REED_T1	9	9	0	0.26	0.6	0.34	0	0	0	0	0	0	0	0
5/8/2024 17:56	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 17:56	29402	BELT_T1	1	1	0	9	8.9	-0.1	0	0	0	0	0	0	0	0
5/8/2024 17:58	29402	BELT_T1	1	1	0	9	8.9	-0.1	0	0	0	0	0	0	0	0
5/8/2024 17:58	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 18:00	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 18:01	64704	LITI_T1	1	1	0	0.3	0.1	-0.2	1.81	1.68	0	0	0	0	0	0
5/8/2024 18:02	64704	LITI_T1	1	1	0	0.3	0.1	-0.2	0.91	0.84	0	0	0	0	0	0
5/8/2024 18:03	60605	NCOL_T2	0	0	0	0	0	0	-1.05	-1.11	0	0	0	0	0	0
5/8/2024 18:04	46802	HEPB_T1	1	1	0	0.2	0.3	0.1	0.03	0.11	0	0	0	0	0	0
5/8/2024 18:05	56501	ROCK_T2	0	2	2	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 18:08	67702	WERN_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
5/8/2024 18:09	51108	CARL_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/8/2024 18:09	51101	CARL_T1	0	0	0	0	0	0	-1.02	-1.09	1	1	0	600	600	0
5/8/2024 18:10	67702	WERN_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
5/8/2024 18:12	40802	EXCH_T2	0	0	0	0	0	0	-0.28	-0.42	0	0	0	0	0	0
5/8/2024 18:12	29402	BELT_T1	1	1	0	8.9	8.5	-0.4	0	0	0	0	0	0	0	0
5/8/2024 18:12	29401	BELT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 18:20	24202	PROV_T4	0	0	0	0	0	0	-0.65	-0.66	1	1	0	1200	1200	0
5/8/2024 18:23	59101	WALK_T2	0	0	0	0	0	0	1.84	1.77	0	0	0	0	0	0
5/8/2024 18:24	24205	PROV_T3	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
5/8/2024 18:24	24204	PROV_T3	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
5/8/2024 18:24	24201	PROV_T3	1	1	0	7.4	7.2	-0.2	-1.13	-1.13	1	1	0	1200	1200	0
5/8/2024 18:25	59101	WALK_T2	0	0	0	0	0	0	1.84	1.77	0	0	0	0	0	0
5/8/2024 18:25	59202	THOM_T1	35	125	90	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
5/8/2024 18:25	59201	THOM_T1	12	29	17	0.2	0.23	0.03	0	0	0	0	0	0	0	0
5/8/2024 18:26	59201	THOM_T1	12	29	17	0.2	0.23	0.03	0	0	0	0	0	0	0	0
5/8/2024 18:26	59202	THOM_T1	35	125	90	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
5/8/2024 18:32	60501	NMAN_T2	8	67	59	2.09	0.45	-1.64	0	0	0	0	0	0	0	0
5/8/2024 18:32	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/8/2024 18:32	60502	NMAN_T2	0	20	20	0	0.13	0.13	0.45	0.48	0	0	0	0	0	0
5/8/2024 18:34	46102	MACI_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
5/8/2024 18:35	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/8/2024 18:35	60502	NMAN_T2	0	20	20	0	0.13	0.13	0.45	0.48	0	0	0	0	0	0
5/8/2024 18:35	60501	NMAN_T2	8	67	59	2.09	0.45	-1.64	0	0	0	0	0	0	0	0
5/8/2024 18:38	51002	NHAR_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
5/8/2024 18:38	51004	NHAR_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
5/8/2024 18:38	51006	NHAR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/8/2024 18:38	51003	NHAR_T1	0	0	0	0	0	0	-2.75	-2.84	1	1	0	1200	1200	0
5/8/2024 18:41	67804	WLAN_T1	3	2	-1	0.37	0	-0.37	0	0	0	0	0	0	0	0
5/8/2024 18:41	67805	WLAN_T1	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
5/8/2024 18:49	56501	ROCK_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
5/8/2024 18:49	62607	ENGL_T1	1	2	1	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 18:49	62602	ENGL_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
5/8/2024 18:49	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 18:50	13303	ORVI_T1	0	0	0	0	0	0	0.03	1.31	0	0	0	0	0	0
5/8/2024 18:51	24801	VALM_T1	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
5/8/2024 18:53	13904	SEID_T1	0	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0
5/8/2024 18:53	13901	SEID_T1	0	0	0	0	0	0	-0.48	-0.54	1	1	0	1200	1200	0
5/8/2024 18:54	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 18:54	29402	BELT_T1	1	1	0	5.5	6.2	0.7	0	0	0	0	0	0	0	0
5/8/2024 18:55	29402	BELT_T1	1	1	0	5.5	6.2	0.7	0	0	0	0	0	0	0	0
5/8/2024 18:59	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 18:59	29402	BELT_T1	1	1	0	5.5	6.2	0.7	0	0	0	0	0	0	0	0
5/8/2024 19:01	67703	WERN_T2	0	0	0	0	0	0	-0.42	-0.44	1	1	0	900	900	0
5/8/2024 19:03	12002	HATF_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/8/2024 19:03	12006	HATF_T1	0	0	0	0	0	0	0.68	0.7	1	1	0	1200	1200	0
5/8/2024 19:06	50701	SMEC_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
5/8/2024 19:17	62601	ENGL_T1	0	0	0	0	0	0	-0.36	-0.3	0	0	0	0	0	0
5/8/2024 19:17	62607	ENGL_T1	2	1	-1	5.6	0	-5.6	0	0	0	0	0	0	0	0
5/8/2024 19:18	67702	WERN_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
5/8/2024 19:21	20603	GRWO_T2	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
5/8/2024 19:23	14404	SSLA_T1	1	2	1	4.8	2.65	-2.15	0.16	0.16	0	0	0	0	0	0
5/8/2024 19:26	67503	WEWI_T2	0	0	0	0	0	0	0.95	0.92	0	0	0	0	0	0
5/8/2024 19:29	53502	EVIL_T2	0	0	0	0	0	0	0.85	0.87	0	0	0	0	0	0
5/8/2024 19:29	53501	EVIL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/8/2024 19:31	10705	CATA_T2	0	0	0	0	0	0	-0.47	-0.54	1	1	0	900	900	0
5/8/2024 19:32	48302	ORWI_T2	2	2	0	0.65	1	0.35	-0.48	-0.51	0	0	0	0	0	0
5/8/2024 19:35	52501	PROG_T1	0	0	0	0	0	0	-0.17	-0.21	1	1	0	300	300	0
5/8/2024 19:36	56801	BENV_T1	13	16	3	0.73	0.73	0	0	0	0	0	0	0	0	0
5/8/2024 19:36	56803	BENV_T1	59	71	12	0.32	0.29	-0.03	0.04	0.02	1	1	0	600	600	0
5/8/2024 19:37	41903	REED_T1	0	0	0	0	0	0	0.29	0.22	1	1	0	1200	1200	0
5/8/2024 19:37	41901	REED_T1	9	8	-1	0.44	0.49	0.05	0	0	0	0	0	0	0	0
5/8/2024 19:38	52501	PROG_T1	0	0	0	0	0	0	-0.21	0.35	1	1	0	300	300	0
5/8/2024 19:46	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 19:46	29402	BELT_T1	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
5/8/2024 19:53	61102	BERK_T5	0	1	1	0	0.2	0.2	0.2	0.14	1	1	0	300	300	0
5/8/2024 19:59	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 20:13	46001	BERW_T1	0	0	0	0	0	0	0.75	0.72	0	0	0	0	0	0
5/8/2024 20:19	25503	MADI_T1	95	93	-2	0.27	0.32	0.05	-0.91	-0.89	0	0	0	0	0	0
5/8/2024 20:29	67703	WERN_T2	0	0	0	0	0	0	-0.54	-0.57	1	1	0	900	900	0
5/8/2024 20:40	67402	WAKE_T2	0	0	0	0	0	0	-0.15	-0.16	1	1	0	600	600	0
5/8/2024 20:41	67402	WAKE_T2	0	0	0	0	0	0	-0.15	-0.16	1	1	0	600	600	0
5/8/2024 20:47	10705	CATA_T2	0	1	1	0	0	0	-0.61	-0.62	1	1	0	900	900	0
5/8/2024 20:49	45902	AUBU_T1	0	0	0	0	0	0	-0.81	-0.86	1	1	0	600	600	0
5/8/2024 20:52	10705	CATA_T2	0	1	1	0	0	0	-0.61	-0.62	1	1	0	900	900	0
5/8/2024 21:09	47401	PENS_T1	0	0	0	0	0	0	0.08	0.02	0	0	0	0	0	0
5/8/2024 21:11	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 21:14	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 21:17	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 21:21	10805	CHHI_T2	1	1	0	7.8	7.5	-0.3	-1.15	-1.19	1	1	0	600	600	0
5/8/2024 21:26	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 21:29	59302	MCAL_T1	5	190	185	0.22	0.28	0.06	-0.16	-0.35	1	0	-1	600	0	-600
5/8/2024 21:29	59301	MCAL_T1	41	58	17	0.27	0.35	0.08	0	0	0	0	0	0	0	0
5/8/2024 21:40	59302	MCAL_T1	5	8	3	0.2	0.8	0.6	0	0	0	0	0	0	0	0
5/8/2024 21:40	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 21:40	59301	MCAL_T1	58	44	-14	0.35	0.23	-0.12	-1.06	-1.07	0	0	0	0	0	0
5/8/2024 21:45	25404	LAHA_T2	57	131	74	0.14	0.15	0.01	0	0	0	0	0	0	0	0
5/8/2024 21:45	25402	LAHA_T2	0	1	1	0	1	1	-0.87	-0.87	0	0	0	0	0	0
5/8/2024 21:45	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/8/2024 21:48	44504	HAMI_T2	0	0	0	0	0	0	-1	-1.03	0	0	0	0	0	0
5/8/2024 21:48	44502	HAMI_T2	1	1	0	3.2	3.5	0.3	0	0	0	0	0	0	0	0
5/8/2024 21:48	64702	LITI_T2	0	0	0	0	0	0	-0.6	-0.52	0	0	0	0	0	0
5/8/2024 21:52	46302	ROHR_T1	14	52	38	0.77	0.37	-0.4	0.19	0.16	0	0	0	0	0	0
5/8/2024 21:52	46301	ROHR_T1	185	257	72	0.36	0.46	0.1	0	0	0	0	0	0	0	0
5/8/2024 21:56	46302	ROHR_T1	14	52	38	0.77	0.37	-0.4	0.16	0.15	0	0	0	0	0	0
5/8/2024 21:56	46301	ROHR_T1	185	257	72	0.36	0.46	0.1	0	0	0	0	0	0	0	0
5/8/2024 22:02	67602	WARW_T2	0	0	0	0	0	0	0.14	0.11	1	1	0	1200	1200	0
5/8/2024 22:02	63602	LETO_T1	0	0	0	0	0	0	-0.69	-0.71	1	1	0	600	600	0
5/8/2024 22:04	24801	VALM_T1	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
5/8/2024 22:04	23202	HIRU_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
5/8/2024 22:04	20401	ASHF_T2	6	5	-1	0.4	0.15	-0.25	-0.17	-0.23	0	0	0	0	0	0
5/8/2024 22:05	65003	NEFF_T2	80	1	-79	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
5/8/2024 22:05	54203	PENN_T1	18	18	0	1.2	0.58	-0.62	0	0	0	0	0	0	0	0
5/8/2024 22:05	65004	NEFF_T2	0	0	0	0	0	0	-0.28	-0.33	0	0	0	0	0	0
5/8/2024 22:05	54201	PENN_T1	21	9	-12	0.49	0.8	0.31	-0.76	-0.82	0	0	0	0	0	0
5/8/2024 22:05	65001	NEFF_T2	17	0	-17	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/8/2024 22:05	17002	RIRO_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
5/8/2024 22:06	47401	PENS_T1	16	0	-16	0.17	0	-0.17	-0.11	-0.12	0	0	0	0	0	0
5/8/2024 22:06	67502	WEWI_T2	0	5	5	0	0.1	0.1	-1.23	-1.27	1	1	0	900	900	0
5/8/2024 22:06	56501	ROCK_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/8/2024 22:06	48302	ORWI_T2	2	2	0	1.45	1.15	-0.3	-0.62	-0.02	0	0	0	0	0	0
5/8/2024 22:06	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 22:07	66501	SMAN_T2	62	3	-59	0.75	0.13	-0.62	0	0	0	0	0	0	0	0
5/8/2024 22:07	64902	MILL_T2	0	0	0	0	0	0	-0.42	-0.45	1	1	0	900	900	0
5/8/2024 22:07	65003	NEFF_T2	80	1	-79	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
5/8/2024 22:07	66503	SMAN_T2	244	0	-244	0.75	0	-0.75	0	0	0	0	0	0	0	0
5/8/2024 22:07	64702	LITI_T2	0	0	0	0	0	0	-0.52	-0.57	0	0	0	0	0	0
5/8/2024 22:07	29402	BELT_T1	1	1	0	7.2	7.5	0.3	0	0	0	0	0	0	0	0
5/8/2024 22:07	65001	NEFF_T2	17	0	-17	0.12	0	-0.12	-0.58	-0.74	1	1	0	1200	1200	0
5/8/2024 22:07	66505	SMAN_T2	247	3	-244	0.31	0.17	-0.14	0	0	0	0	0	0	0	0
5/8/2024 22:07	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.1	1	1	0	900	900	0
5/8/2024 22:07	66502	SMAN_T2	462	1	-461	0.41	0.1	-0.31	0	0	0	0	0	0	0	0
5/8/2024 22:07	67602	WARW_T2	0	0	0	0	0	0	0.14	0.11	1	1	0	1200	1200	0
5/8/2024 22:07	66504	SMAN_T2	89	0	-89	0.24	0	-0.24	-0.3	-0.43	0	0	0	0	0	0
5/8/2024 22:07	45902	AUBU_T1	0	0	0	0	0	0	-1.04	-1.04	1	1	0	600	600	0
5/8/2024 22:08	54601	SUMM_T2	7	4	-3	0.3	0.23	-0.07	-1.79	-1.66	2	2	0	2100	2100	0
5/8/2024 22:08	41301	FISH_T1	3	3	0	1.17	1.37	0.2	-0.07	-0.08	0	0	0	0	0	0
5/8/2024 22:08	47001	HUGH_T2	0	2	2	0	0.1	0.1	-0.78	-0.79	0	0	0	0	0	0
5/8/2024 22:08	64701	LITI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 22:08	13501	MCMI_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
5/8/2024 22:08	13502	MCMI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/8/2024 22:08	64704	LITI_T1	5	0	-5	0.25	0	-0.25	1.6	1.38	0	0	0	0	0	0
5/8/2024 22:08	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/8/2024 22:09	63401	HONY_T1	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
5/8/2024 22:09	56501	ROCK_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/8/2024 22:09	63403	HONY_T2	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
5/8/2024 22:09	16401	MOPO_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
5/8/2024 22:09	29402	BELT_T1	1	1	0	7.2	7.5	0.3	0	0	0	0	0	0	0	0
5/8/2024 22:09	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/8/2024 22:09	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 22:09	27101	GFLD_T2	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
5/8/2024 22:09	67502	WEWI_T2	0	5	5	0	0.1	0.1	-1.27	-1.29	1	1	0	900	900	0
5/8/2024 22:09	63402	HONY_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
5/8/2024 22:10	66503	SMAN_T2	244	0	-244	0.75	0	-0.75	0	0	0	0	0	0	0	0
5/8/2024 22:10	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.17	1	1	0	600	600	0
5/8/2024 22:10	44502	HAMI_T2	1	1	0	3.2	3.5	0.3	0	0	0	0	0	0	0	0
5/8/2024 22:10	67002	STHI_T2	0	0	0	0	0	0	0.87	0.83	0	0	0	0	0	0
5/8/2024 22:10	43801	SWIL_T1	12	32	20	0.68	0.38	-0.3	0	0	0	0	0	0	0	0
5/8/2024 22:10	67204	TEHI_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
5/8/2024 22:10	57304	MOAL_T2	1	1	0	0.7	0.4	-0.3	-0.32	-0.4	0	0	0	0	0	0
5/8/2024 22:10	53901	HALI_T2	1	1	0	1.2	0.7	-0.5	-1.42	-1.41	0	0	0	0	0	0
5/8/2024 22:10	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 22:10	65901	SAKR_T2	1	1	0	8.9	8.5	-0.4	-0.92	-1.03	1	1	0	900	900	0
5/8/2024 22:10	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 22:10	44503	HAMI_T2	0	0	0	0	0	0	-1.64	-1.64	1	1	0	1200	1200	0
5/8/2024 22:10	45901	AUBU_T1	0	0	0	0	0	0	2.08	2.13	0	0	0	0	0	0
5/8/2024 22:10	13303	ORVI_T1	0	0	0	0	0	0	-0.37	-0.4	0	0	0	0	0	0
5/8/2024 22:10	29402	BELT_T1	1	1	0	7.2	7.5	0.3	0	0	0	0	0	0	0	0
5/8/2024 22:10	40302	TAMA_T3	0	2	2	0	0.1	0.1	0.11	0.1	0	0	0	0	0	0
5/8/2024 22:10	64702	LITI_T2	0	0	0	0	0	0	-0.57	-0.65	0	0	0	0	0	0
5/8/2024 22:10	57303	MOAL_T2	1	1	0	7.4	7.8	0.4	0	0	0	0	0	0	0	0
5/8/2024 22:10	66505	SMAN_T2	247	3	-244	0.31	0.17	-0.14	0	0	0	0	0	0	0	0
5/8/2024 22:10	67503	WEWI_T2	0	0	0	0	0	0	0.74	0.7	0	0	0	0	0	0
5/8/2024 22:10	67001	STHI_T2	13	0	-13	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/8/2024 22:10	62601	ENGL_T1	0	0	0	0	0	0	-0.46	-0.31	0	0	0	0	0	0
5/8/2024 22:10	24102	EHAZ_T1	6	5	-1	1.28	0	-1.28	0	0	0	0	0	0	0	0
5/8/2024 22:10	67502	WEWI_T2	0	5	5	0	0.1	0.1	-1.27	-1.29	1	1	0	900	900	0
5/8/2024 22:10	67605	WARW_T1	10	1	-9	0.17	0.1	-0.07	-0.99	-1.03	0	0	0	0	0	0
5/8/2024 22:10	24105	EHAZ_T1	4	4	0	6.28	6.03	-0.25	0	0	0	0	0	0	0	0
5/8/2024 22:10	66501	SMAN_T2	62	3	-59	0.75	0.13	-0.62	0	0	0	0	0	0	0	0
5/8/2024 22:10	56802	BENV_T2	1024	456	-568	0.83	0.78	-0.05	-0.57	-0.63	0	0	0	0	0	0
5/8/2024 22:10	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 22:10	53903	HALI_T2	3	2	-1	1.37	1.35	-0.02	0	0	0	0	0	0	0	0
5/8/2024 22:10	20403	ASHF_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
5/8/2024 22:10	20401	ASHF_T2	6	5	-1	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
5/8/2024 22:10	66504	SMAN_T2	89	0	-89	0.24	0	-0.24	0	0	0	0	0	0	0	0
5/8/2024 22:10	66502	SMAN_T2	462	1	-461	0.41	0.1	-0.31	0.01	0	0	0	0	0	0	0
5/8/2024 22:10	17401	FOHI_T1	0	0	0	0	0	0	-0.89	-0.87	0	0	0	0	0	0
5/8/2024 22:10	24103	EHAZ_T1	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
5/8/2024 22:10	53902	HALI_T2	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
5/8/2024 22:11	67002	STHI_T2	0	0	0	0	0	0	0.87	0.83	0	0	0	0	0	0
5/8/2024 22:11	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 22:11	57006	WHHI_T2	2	0	-2	0.15	0	-0.15	2.17	0.76	0	2	2	0	1200	1200
5/8/2024 22:11	46802	HEPB_T1	1	2	1	0.9	0.65	-0.25	-0.25	-0.26	0	0	0	0	0	0
5/8/2024 22:11	67001	STHI_T2	13	0	-13	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/8/2024 22:11	51102	CARL_T1	14	1	-13	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
5/8/2024 22:11	13302	ORVI_T2	0	0	0	0	0	0	0.21	0.26	0	0	0	0	0	0
5/8/2024 22:11	65901	SAKR_T2	1	1	0	8.9	8.5	-0.4	-0.92	-1.03	1	1	0	900	900	0
5/8/2024 22:11	56501	ROCK_T2	2	0	-2	0.4	0	-0.4	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 22:11	51107	CARL_T1	0	0	0	0	0	0	0.04	-0.04	0	0	0	0	0	0
5/8/2024 22:12	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 22:12	28805	LAKE_T1	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
5/8/2024 22:12	66505	SMAN_T2	247	3	-244	0.31	0.17	-0.14	0	0	0	0	0	0	0	0
5/8/2024 22:12	56803	BENV_T1	177	63	-114	0.54	0.23	-0.31	-0.06	-0.07	1	1	0	600	600	0
5/8/2024 22:12	26001	WDAM_T1	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
5/8/2024 22:12	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 22:12	66504	SMAN_T2	89	0	-89	0.24	0	-0.24	0	0	0	0	0	0	0	0
5/8/2024 22:12	56802	BENV_T2	1024	456	-568	0.83	0.78	-0.05	-1.14	-1.26	0	0	0	0	0	0
5/8/2024 22:12	51004	NHAR_T1	5	1	-4	1.36	6.3	4.94	-0.24	-0.26	0	0	0	0	0	0
5/8/2024 22:12	51002	NHAR_T1	1	1	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
5/8/2024 22:12	66501	SMAN_T2	62	3	-59	0.75	0.13	-0.62	0	0	0	0	0	0	0	0
5/8/2024 22:12	67001	STHI_T2	13	0	-13	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/8/2024 22:12	66502	SMAN_T2	462	1	-461	0.41	0.1	-0.31	0.01	0	0	0	0	0	0	0
5/8/2024 22:12	15001	BLMO_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
5/8/2024 22:12	11104	EGYP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 22:12	67002	STHI_T2	0	0	0	0	0	0	0.87	0.83	0	0	0	0	0	0
5/8/2024 22:12	23203	HIRU_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
5/8/2024 22:12	26002	WDAM_T1	2	2	0	1.15	0.55	-0.6	0	0	0	0	0	0	0	0
5/8/2024 22:12	11103	EGYP_T1	0	0	0	0	0	0	0.34	0.37	0	0	0	0	0	0
5/8/2024 22:12	12701	MACU_T1	1	0	-1	0.1	0	-0.1	-1.16	-1.15	1	1	0	1200	1200	0
5/8/2024 22:12	66503	SMAN_T2	244	0	-244	0.75	0	-0.75	0	0	0	0	0	0	0	0
5/8/2024 22:12	16402	MOPO_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
5/8/2024 22:12	56801	BENV_T1	34	18	-16	0.6	0.59	-0.01	0	0	0	0	0	0	0	0
5/8/2024 22:13	53903	HALI_T2	3	2	-1	1.37	1.35	-0.02	0	0	0	0	0	0	0	0
5/8/2024 22:13	61103	BERK_T5	0	0	0	0	0	0	0.23	-0.4	0	0	0	0	0	0
5/8/2024 22:13	11103	EGYP_T1	0	0	0	0	0	0	0.34	0.37	0	0	0	0	0	0
5/8/2024 22:13	40802	EXCH_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
5/8/2024 22:13	53901	HALI_T2	1	1	0	1.2	0.7	-0.5	-1.42	-1.41	0	0	0	0	0	0
5/8/2024 22:13	54601	SUMM_T2	7	4	-3	0.3	0.23	-0.07	-1.79	-1.66	2	2	0	2100	2100	0
5/8/2024 22:13	47802	MOCA_T2	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
5/8/2024 22:13	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
5/8/2024 22:13	42501	ALTA_T2	0	0	0	0	0	0	0.22	0.24	1	1	0	600	600	0
5/8/2024 22:13	11507	FREE_T2	0	0	0	0	0	0	1.41	1.42	0	0	0	0	0	0
5/8/2024 22:13	60502	NMAN_T2	344	0	-344	0.43	0	-0.43	-0.03	-0.11	0	0	0	0	0	0
5/8/2024 22:13	67605	WARW_T1	10	1	-9	0.17	0.1	-0.07	-0.99	-1.03	0	0	0	0	0	0
5/8/2024 22:13	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 22:13	60501	NMAN_T2	558	33	-525	0.56	0.79	0.23	0	0	0	0	0	0	0	0
5/8/2024 22:13	60504	NMAN_T2	73	0	-73	0.27	0	-0.27	0.81	0.77	0	0	0	0	0	0
5/8/2024 22:13	11104	EGYP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 22:13	11604	CEAL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 22:13	47001	HUGH_T2	0	2	2	0	0.1	0.1	-0.79	-0.85	0	0	0	0	0	0
5/8/2024 22:13	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/8/2024 22:13	56803	BENV_T1	177	63	-114	0.54	0.23	-0.31	-0.06	-0.07	1	1	0	600	600	0
5/8/2024 22:13	67703	WERN_T2	0	0	0	0	0	0	-0.1	-0.8	1	1	0	900	900	0
5/8/2024 22:13	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 22:13	51302	WIND_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
5/8/2024 22:13	40801	EXCH_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/8/2024 22:13	53902	HALI_T2	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
5/8/2024 22:13	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 22:13	53402	MORO_T1	0	0	0	0	0	0	-0.31	-0.33	2	2	0	1500	1500	0
5/8/2024 22:13	51304	WIND_T2	0	0	0	0	0	0	-0.09	-0.05	0	0	0	0	0	0
5/8/2024 22:13	56801	BENV_T1	34	18	-16	0.6	0.59	-0.01	0	0	0	0	0	0	0	0
5/8/2024 22:14	60605	NCOL_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
5/8/2024 22:14	65205	PRIN_T1	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
5/8/2024 22:14	42201	SHEN_T2	0	0	0	0	0	0	0.07	0.07	1	1	0	600	600	0
5/8/2024 22:14	26001	WDAM_T1	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
5/8/2024 22:14	56802	BENV_T2	1024	456	-568	0.83	0.78	-0.05	-1.14	-1.26	0	0	0	0	0	0
5/8/2024 22:14	47401	PENS_T1	16	0	-16	0.17	0	-0.17	-0.12	1.02	0	0	0	0	0	0
5/8/2024 22:14	45602	WOOL_T1	2	3	1	0.7	0.87	0.17	0.54	0.52	0	0	0	0	0	0
5/8/2024 22:14	46101	MACJ_T2	0	0	0	0	0	0	0.59	0.63	0	0	0	0	0	0
5/8/2024 22:14	54001	SDLE_T1	105	6	-99	0.26	0.9	0.64	0	0	0	0	0	0	0	0
5/8/2024 22:14	26002	WDAM_T1	2	2	0	1.15	0.55	-0.6	0	0	0	0	0	0	0	0
5/8/2024 22:15	45501	DERR_T2	2	3	1	1.2	0.1	-1.1	-0.35	-0.35	2	2	0	1800	1800	0
5/8/2024 22:15	57401	SPAN_T1	0	0	0	0	0	0	-1.52	-1.53	1	1	0	600	600	0
5/8/2024 22:15	29402	BELT_T1	1	1	0	7.1	7.6	0.5	0	0	0	0	0	0	0	0
5/8/2024 22:15	24205	PROV_T3	1	1	0	0.8	1.8	1	0	0	0	0	0	0	0	0
5/8/2024 22:15	23001	SAIO_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
5/8/2024 22:15	56803	BENV_T1	60	15	-45	0.24	0.26	0.02	0	0	0	0	0	0	0	0
5/8/2024 22:15	24204	PROV_T3	1	1	0	6.6	6	-0.6	0	0	0	0	0	0	0	0
5/8/2024 22:15	51108	CARL_T1	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
5/8/2024 22:15	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 22:15	24201	PROV_T3	1	1	0	8	6.5	-1.5	0	0	0	0	0	0	0	0
5/8/2024 22:15	54601	SUMM_T2	4	2	-2	0.23	0.2	-0.03	-1.79	-1.66	2	2	0	2100	2100	0
5/8/2024 22:15	56801	BENV_T1	17	18	1	0.59	0.58	-0.01	-0.05	-0.1	0	0	0	0	0	0
5/8/2024 22:15	51002	NHAR_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/8/2024 22:15	63304	GREE_T1	0	0	0	0	0	0	-0.22	-0.27	0	0	0	0	0	0
5/8/2024 22:15	67602	WARW_T2	0	0	0	0	0	0	0.11	0.15	1	1	0	1200	1200	0
5/8/2024 22:15	60102	COCA_T1	0	0	0	0	0	0	0.01	0.12	3	3	0	2100	2100	0
5/8/2024 22:15	51102	CARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/8/2024 22:15	56802	BENV_T2	455	390	-65	0.78	0.58	-0.2	-1.14	-1.26	0	0	0	0	0	0
5/8/2024 22:15	54001	SDLE_T1	6	6	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
5/8/2024 22:15	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/8/2024 22:15	51004	NHAR_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
5/8/2024 22:15	53901	HALI_T2	1	1	0	0.7	0.8	0.1	-1.42	-1.41	0	0	0	0	0	0
5/8/2024 22:15	47401	PENS_T1	0	0	0	0	0	0	-0.12	1.02	0	0	0	0	0	0
5/8/2024 22:15	10805	CHHI_T2	1	1	0	7.9	7.8	-0.1	-0.98	-0.96	1	1	0	600	600	0
5/8/2024 22:15	48302	ORWI_T2	2	2	0	0.9	1.2	0.3	-0.02	-0.05	0	0	0	0	0	0
5/8/2024 22:15	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
5/8/2024 22:15	53903	HALI_T2	2	2	0	1.35	1.35	0	0	0	0	0	0	0	0	0
5/8/2024 22:15	51003	NHAR_T1	0	0	0	0	0	0	-3.22	-3.25	1	1	0	1200	1200	0
5/8/2024 22:16	56803	BENV_T1	60	15	-45	0.24	0.26	0.02	-0.06	-0.07	1	1	0	600	600	0
5/8/2024 22:16	41903	REED_T1	0	0	0	0	0	0	-0.2	-0.18	1	1	0	1200	1200	0
5/8/2024 22:16	42903	MIDD_T2	2	2	0	1	0.75	-0.25	0	0	0	0	0	0	0	0
5/8/2024 22:16	67204	TEHI_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
5/8/2024 22:16	50502	MECH_T1	1	1	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
5/8/2024 22:16	45902	AUBU_T1	0	0	0	0	0	0	-1.04	-1	1	1	0	600	600	0
5/8/2024 22:16	51402	LYKE_T1	0	0	0	0	0	0	-1.38	-1.38	1	1	0	600	600	0
5/8/2024 22:16	47401	PENS_T1	0	0	0	0	0	0	-0.12	1.02	0	0	0	0	0	0
5/8/2024 22:16	59201	THOM_T1	48	26	-22	0.44	0.57	0.13	0	0	0	0	0	0	0	0
5/8/2024 22:16	62102	ELAN_T1	0	0	0	0	0	0	1.05	0.96	0	0	0	0	0	0
5/8/2024 22:16	56801	BENV_T1	17	18	1	0.59	0.58	-0.01	0	0	0	0	0	0	0	0
5/8/2024 22:16	53903	HALI_T2	2	2	0	1.35	1.35	0	-0.08	-0.1	0	0	0	0	0	0
5/8/2024 22:16	51101	CARL_T1	0	0	0	0	0	0	-1.28	-1.31	1	1	0	600	600	0
5/8/2024 22:16	50501	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/8/2024 22:16	45501	DERR_T2	2	3	1	1.2	0.1	-1.1	-0.35	-0.35	2	2	0	1800	1800	0
5/8/2024 22:16	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/8/2024 22:16	42902	MIDD_T2	0	0	0	0	0	0	-1.1	-1.14	1	1	0	600	600	0
5/8/2024 22:16	51102	CARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/8/2024 22:16	66501	SMAN_T2	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
5/8/2024 22:16	24202	PROV_T4	0	0	0	0	0	0	-0.95	-0.95	1	1	0	1200	1200	0
5/8/2024 22:16	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 22:16	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 22:16	60101	COCA_T1	0	0	0	0	0	0	0.46	0.34	0	0	0	0	0	0
5/8/2024 22:16	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
5/8/2024 22:16	59101	WALK_T2	0	0	0	0	0	0	1.29	1.4	0	0	0	0	0	0
5/8/2024 22:16	53901	HALI_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/8/2024 22:16	66505	SMAN_T2	3	3	0	0.17	0.57	0.4	0.63	0.56	1	1	0	900	900	0
5/8/2024 22:16	50506	MECH_T1	0	0	0	0	0	0	0.18	0.13	0	0	0	0	0	0
5/8/2024 22:16	60902	DONG_T2	0	0	0	0	0	0	1.03	1	0	0	0	0	0	0
5/8/2024 22:16	59202	THOM_T1	443	371	-72	0.52	0.45	-0.07	0	0	0	0	0	0	0	0
5/8/2024 22:17	56801	BENV_T1	17	18	1	0.59	0.58	-0.01	0	0	0	0	0	0	0	0
5/8/2024 22:17	12701	MACU_T1	0	0	0	0	0	0	-1.16	-1.15	1	1	0	1200	1200	0
5/8/2024 22:17	55002	NEWP_T1	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
5/8/2024 22:17	67801	WLAN_T1	0	0	0	0	0	0	0.35	0.29	0	0	0	0	0	0
5/8/2024 22:17	10805	CHHI_T2	1	1	0	7.9	7.8	-0.1	-0.98	-0.96	1	1	0	600	600	0
5/8/2024 22:17	47401	PENS_T1	0	0	0	0	0	0	-0.12	1.02	0	0	0	0	0	0
5/8/2024 22:17	67703	WERN_T2	0	0	0	0	0	0	-0.1	-0.8	1	1	0	900	900	0
5/8/2024 22:17	59101	WALK_T2	0	0	0	0	0	0	1.29	1.4	0	0	0	0	0	0
5/8/2024 22:17	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 22:17	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 22:17	67805	WLAN_T1	239	285	46	0.19	0.21	0.02	0	0	0	0	0	0	0	0
5/8/2024 22:17	56803	BENV_T1	60	15	-45	0.24	0.26	0.02	-0.06	-0.07	1	1	0	600	600	0
5/8/2024 22:17	42802	SEU_T1	0	0	0	0	0	0	-1.14	-1.17	0	0	0	0	0	0
5/8/2024 22:17	56501	ROCK_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
5/8/2024 22:17	65402	MARI_T1	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
5/8/2024 22:17	14404	SSLA_T1	1	1	0	4.7	4.7	0	0.03	0.02	0	0	0	0	0	0
5/8/2024 22:17	56802	BENV_T2	455	390	-65	0.78	0.58	-0.2	-0.57	-0.63	0	0	0	0	0	0
5/8/2024 22:18	52501	PROG_T1	0	0	0	0	0	0	0.25	0.22	1	1	0	300	300	0
5/8/2024 22:18	54001	SDLE_T1	6	6	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
5/8/2024 22:18	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 22:18	67805	WLAN_T1	239	285	46	0.19	0.21	0.02	0	0	0	0	0	0	0	0
5/8/2024 22:18	46203	DANV_T2	0	0	0	0	0	0	-0.72	0.59	0	0	0	0	0	0
5/8/2024 22:18	10801	CHHI_T1	0	0	0	0	0	0	-1.21	-1.22	2	2	0	1500	1500	0
5/8/2024 22:18	63202	MGTN_T2	0	0	0	0	0	0	0.12	0.04	1	1	0	900	900	0
5/8/2024 22:18	13901	SEID_T1	0	0	0	0	0	0	0.5	0.44	0	0	0	0	0	0
5/8/2024 22:18	54201	PENN_T1	9	0	-9	0.8	0.53	-0.27	0	0	0	0	0	0	0	0
5/8/2024 22:18	42503	ALTA_T2	0	0	0	0	0	0	-0.95	-0.97	0	0	0	0	0	0
5/8/2024 22:18	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 22:18	67803	WLAN_T1	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
5/8/2024 22:18	49803	UNIV_T1	21	0	-21	0.14	0	-0.14	-1.03	-1.18	0	0	0	0	0	0
5/8/2024 22:18	54203	PENN_T1	18	18	0	0.58	0.29	-0.29	0.92	0.8	0	0	0	0	0	0
5/8/2024 22:18	55002	NEWP_T1	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
5/8/2024 22:18	53901	HALI_T2	1	1	0	0.7	0.8	0.1	-2.84	-2.82	0	0	0	0	0	0
5/8/2024 22:18	15001	BLMO_T1	1	4	3	0.1	0.35	0.25	0	0	0	0	0	0	0	0
5/8/2024 22:18	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
5/8/2024 22:18	53903	HALI_T2	2	2	0	1.35	1.35	0	0	0	0	0	0	0	0	0
5/8/2024 22:18	13904	SEID_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/8/2024 22:19	50501	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/8/2024 22:19	49803	UNIV_T1	21	0	-21	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/8/2024 22:19	15702	TANN_T2	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
5/8/2024 22:19	57403	SPAN_T1	0	0	0	0	0	0	0.11	0.06	0	0	0	0	0	0
5/8/2024 22:19	53903	HALI_T2	2	2	0	1.35	1.35	0	0	0	0	0	0	0	0	0
5/8/2024 22:19	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 22:19	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 22:19	14801	TREI_T2	0	0	0	0	0	0	0.54	0.5	0	0	0	0	0	0
5/8/2024 22:19	62602	ENGL_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
5/8/2024 22:19	12803	MICK_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/8/2024 22:19	45902	AUBU_T1	0	0	0	0	0	0	-1.04	-1	1	1	0	600	600	0
5/8/2024 22:19	67605	WARW_T1	1	2	1	0.1	0.1	0	-0.99	-1.03	0	0	0	0	0	0
5/8/2024 22:19	67703	WERN_T2	0	0	0	0	0	0	-0.1	-0.8	1	1	0	900	900	0
5/8/2024 22:19	12801	MICK_T1	0	0	0	0	0	0	-0.07	-0.08	1	1	0	600	600	0
5/8/2024 22:19	12807	MICK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/8/2024 22:19	67803	WLAN_T1	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
5/8/2024 22:19	50502	MECH_T1	1	1	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
5/8/2024 22:19	58401	MORO_T1	0	0	0	0	0	0	-0.97	-0.99	1	1	0	600	600	0
5/8/2024 22:19	53901	HALI_T2	1	1	0	0.7	0.8	0.1	-1.42	-1.41	0	0	0	0	0	0
5/8/2024 22:19	15703	TANN_T2	1	1	0	5.3	4.9	-0.4	0	0	0	0	0	0	0	0
5/8/2024 22:19	43201	MVIL_T2	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
5/8/2024 22:19	44301	BEAV_T2	5	261	256	1.08	0.54	-0.54	0.67	1.41	2	2	0	1200	1200	0
5/8/2024 22:19	54001	SDLE_T1	6	6	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
5/8/2024 22:19	57304	MOAL_T2	1	0	-1	0.4	0	-0.4	-0.32	-0.4	0	0	0	0	0	0
5/8/2024 22:19	53501	EVIL_T2	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
5/8/2024 22:19	57303	MOAL_T2	1	1	0	7.8	7.6	-0.2	0	0	0	0	0	0	0	0
5/8/2024 22:19	53502	EVIL_T2	0	0	0	0	0	0	0.84	0.82	0	0	0	0	0	0
5/8/2024 22:19	59101	WALK_T2	0	0	0	0	0	0	1.29	1.4	0	0	0	0	0	0
5/8/2024 22:19	49804	UNIV_T1	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
5/8/2024 22:19	10801	CHHI_T1	0	0	0	0	0	0	-1.21	-1.22	2	2	0	1500	1500	0
5/8/2024 22:19	44601	SALE_T2	1	1	0	0.2	0.6	0.4	0.08	0.08	0	0	0	0	0	0
5/8/2024 22:19	50506	MECH_T1	0	0	0	0	0	0	0.18	0.13	0	0	0	0	0	0
5/8/2024 22:19	64704	LITI_T1	0	0	0	0	0	0	0.8	0.69	0	0	0	0	0	0
5/8/2024 22:19	67805	WLAN_T1	239	285	46	0.19	0.21	0.02	0	0	0	0	0	0	0	0
5/8/2024 22:19	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
5/8/2024 22:19	43202	MVIL_T2	102	145	43	0.81	0.58	-0.23	0	0	0	0	0	0	0	0
5/8/2024 22:20	56802	BENV_T2	455	390	-65	0.78	0.58	-0.2	-0.57	-0.63	0	0	0	0	0	0
5/8/2024 22:20	45501	DERR_T2	2	3	1	1.2	0.1	-1.1	-0.35	-0.35	2	2	0	1800	1800	0
5/8/2024 22:20	46203	DANV_T2	0	0	0	0	0	0	-0.72	0.59	0	0	0	0	0	0
5/8/2024 22:20	45902	AUBU_T1	0	0	0	0	0	0	-1.04	-1	1	1	0	600	600	0
5/8/2024 22:20	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 22:20	42902	MIDD_T2	0	0	0	0	0	0	-2.2	-2.28	2	2	0	1200	1200	0
5/8/2024 22:20	61302	EARL_T1	0	0	0	0	0	0	-0.25	-0.25	2	2	0	1800	1800	0
5/8/2024 22:20	43202	MVIL_T2	102	145	43	0.81	0.58	-0.23	-0.7	-0.71	0	0	0	0	0	0
5/8/2024 22:20	42903	MIDD_T2	2	2	0	1	0.75	-0.25	0	0	0	0	0	0	0	0
5/8/2024 22:20	10801	CHHI_T1	0	0	0	0	0	0	-1.21	-1.22	2	2	0	1500	1500	0
5/8/2024 22:20	60501	NMAN_T2	33	47	14	0.79	0.64	-0.15	0	0	0	0	0	0	0	0
5/8/2024 22:20	60502	NMAN_T2	0	0	0	0	0	0	-0.03	-0.11	0	0	0	0	0	0
5/8/2024 22:21	45402	WBLO_T2	5	6	1	0.42	0.42	0	-1.71	-1.72	1	1	0	900	900	0
5/8/2024 22:21	56801	BENV_T1	17	18	1	0.59	0.58	-0.01	0	0	0	0	0	0	0	0
5/8/2024 22:21	44301	BEAV_T2	5	261	256	1.08	0.54	-0.54	0.33	0.7	1	1	0	600	600	0
5/8/2024 22:21	46803	HEPB_T2	7	0	-7	0.14	0	-0.14	0.52	0.49	0	0	0	0	0	0
5/8/2024 22:21	54601	SUMM_T2	4	2	-2	0.23	0.2	-0.03	-1.79	-1.66	2	2	0	2100	2100	0
5/8/2024 22:21	24801	VALM_T1	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
5/8/2024 22:21	28403	HART_T2	0	0	0	0	0	0	-0.83	-0.84	1	1	0	900	900	0
5/8/2024 22:21	14404	SSLA_T1	1	1	0	4.7	4.7	0	0.03	0.02	0	0	0	0	0	0
5/8/2024 22:21	47401	PENS_T1	0	0	0	0	0	0	-0.12	1.02	0	0	0	0	0	0
5/8/2024 22:21	67201	TEHI_T1	0	0	0	0	0	0	-0.17	-0.21	1	1	0	600	600	0
5/8/2024 22:21	56803	BENV_T1	60	15	-45	0.24	0.26	0.02	-0.06	-0.07	1	1	0	600	600	0
5/8/2024 22:21	16301	ALPA_T1	16	1	-15	0.16	0.5	0.34	-0.09	-0.09	0	0	0	0	0	0
5/8/2024 22:21	47802	MOCA_T2	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
5/8/2024 22:21	15001	BLMO_T1	1	4	3	0.1	0.35	0.25	0	0	0	0	0	0	0	0
5/8/2024 22:21	46004	BERW_T2	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
5/8/2024 22:21	42903	MIDD_T2	2	2	0	1	0.75	-0.25	-1.35	-1.37	1	1	0	1200	1200	0
5/8/2024 22:21	61103	BERK_T5	0	0	0	0	0	0	0.23	-0.4	0	0	0	0	0	0
5/8/2024 22:21	46801	HEPB_T2	20	2	-18	0.24	0.85	0.61	0	0	0	0	0	0	0	0
5/8/2024 22:21	56802	BENV_T2	455	390	-65	0.78	0.58	-0.2	-0.57	-0.63	0	0	0	0	0	0
5/8/2024 22:21	15703	TANN_T2	1	1	0	5.3	4.9	-0.4	0	0	0	0	0	0	0	0
5/8/2024 22:21	54206	PENN_T2	0	0	0	0	0	0	0.04	0.12	0	0	0	0	0	0
5/8/2024 22:21	15702	TANN_T2	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
5/8/2024 22:21	67203	TEHI_T1	0	0	0	0	0	0	2.27	2.22	2	2	0	1500	1500	0
5/8/2024 22:22	59003	MIFF_T1	0	1	1	0	0.4	0.4	0.7	0.65	0	0	0	0	0	0
5/8/2024 22:22	59002	MIFF_T1	5	5	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/8/2024 22:22	12002	HATF_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
5/8/2024 22:22	21204	ECAR_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/8/2024 22:22	55002	NEWP_T1	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
5/8/2024 22:22	67002	STHI_T2	0	0	0	0	0	0	0.87	0.83	0	0	0	0	0	0
5/8/2024 22:22	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 22:22	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 22:22	12006	HATF_T1	0	0	0	0	0	0	0.11	0.1	1	1	0	1200	1200	0
5/8/2024 22:22	21206	ECAR_T2	1	1	0	7.9	8.2	0.3	0.1	0.06	0	0	0	0	0	0
5/8/2024 22:22	56802	BENV_T2	455	390	-65	0.78	0.58	-0.2	-1.14	-1.26	0	0	0	0	0	0
5/8/2024 22:22	14404	SSLA_T1	1	1	0	4.7	4.7	0	0.03	0.02	0	0	0	0	0	0
5/8/2024 22:22	54001	SDLE_T1	6	6	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
5/8/2024 22:22	67703	WERN_T2	0	0	0	0	0	0	-0.1	-0.8	1	1	0	900	900	0
5/8/2024 22:22	14802	TREI_T2	0	0	0	0	0	0	0.45	0.41	0	0	0	0	0	0
5/8/2024 22:23	21204	ECAR_T2	1	1	0	0.5	0.7	0.2	-0.72	-0.72	0	0	0	0	0	0
5/8/2024 22:23	63801	HEMP_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
5/8/2024 22:23	21206	ECAR_T2	1	1	0	7.9	8.2	0.3	0	0	0	0	0	0	0	0
5/8/2024 22:23	45902	AUBU_T1	0	0	0	0	0	0	-1	-0.99	1	1	0	600	600	0
5/8/2024 22:23	20403	ASHF_T2	0	0	0	0	0	0	0.34	0.26	0	0	0	0	0	0
5/8/2024 22:23	63803	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/8/2024 22:23	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
5/8/2024 22:23	46203	DANV_T2	0	0	0	0	0	0	-0.72	0.59	0	0	0	0	0	0
5/8/2024 22:23	56802	BENV_T2	455	390	-65	0.78	0.58	-0.2	-0.63	-0.65	0	0	0	0	0	0
5/8/2024 22:23	51109	CARL_T1	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
5/8/2024 22:23	61102	BERK_T5	0	0	0	0	0	0	-0.22	-0.35	1	2	1	300	1200	900
5/8/2024 22:23	20401	ASHF_T2	4	2	-2	0.58	0.35	-0.23	0	0	0	0	0	0	0	0
5/8/2024 22:23	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 22:23	23001	SAJO_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
5/8/2024 22:23	63804	HEMP_T1	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
5/8/2024 22:23	61803	EELI_T2	0	0	0	0	0	0	0.74	0.71	0	0	0	0	0	0
5/8/2024 22:23	51102	CARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/8/2024 22:24	43801	SWIL_T1	18	32	14	0.48	0.38	-0.1	0	0	0	0	0	0	0	0
5/8/2024 22:24	10805	CHHI_T2	1	1	0	7.9	7.8	-0.1	-0.96	-1	1	1	0	600	600	0
5/8/2024 22:24	45402	WBLO_T2	5	6	1	0.42	0.42	0	-1.72	-1.76	1	1	0	900	900	0
5/8/2024 22:24	10705	CATA_T2	0	0	0	0	0	0	-0.77	-0.83	1	1	0	900	900	0
5/8/2024 22:24	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 22:24	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.1	1	1	0	600	600	0
5/8/2024 22:24	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
5/8/2024 22:24	40802	EXCH_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
5/8/2024 22:24	46203	DANV_T2	0	0	0	0	0	0	0.59	0.51	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/8/2024 22:25	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 22:25	45902	AUBU_T1	0	0	0	0	0	0	-1	-0.99	1	1	0	600	600	0
5/8/2024 22:25	52501	PROG_T1	0	0	0	0	0	0	0.22	0.23	1	1	0	300	300	0
5/8/2024 22:25	43202	MVIL_T2	102	145	43	0.81	0.58	-0.23	-0.71	-0.72	0	0	0	0	0	0
5/8/2024 22:25	46203	DANV_T2	0	0	0	0	0	0	0.59	0.51	0	0	0	0	0	0
5/8/2024 22:25	41903	REED_T1	0	0	0	0	0	0	-0.18	-0.22	1	1	0	1200	1200	0
5/8/2024 22:25	12701	MACU_T1	0	0	0	0	0	0	-2.3	-2.36	2	2	0	2400	2400	0
5/8/2024 22:25	46102	MACI_T1	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
5/8/2024 22:25	58402	MORO_T1	0	0	0	0	0	0	-0.33	-0.43	2	2	0	1500	1500	0
5/8/2024 22:26	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/8/2024 22:26	42201	SHEN_T2	0	0	0	0	0	0	0.07	0.02	1	1	0	600	600	0
5/8/2024 22:26	43301	WATS_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
5/8/2024 22:26	56802	BENV_T2	455	390	-65	0.78	0.58	-0.2	-1.26	-1.3	0	0	0	0	0	0
5/8/2024 22:26	42503	ALTA_T2	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
5/8/2024 22:26	58402	MORO_T1	0	0	0	0	0	0	-0.33	-0.43	2	2	0	1500	1500	0
5/8/2024 22:26	45402	WBLO_T2	5	6	1	0.42	0.42	0	-1.72	-1.76	1	1	0	900	900	0
5/8/2024 22:26	56801	BENV_T1	17	18	1	0.59	0.58	-0.01	-0.1	-0.12	0	0	0	0	0	0
5/8/2024 22:26	13704	SCHN_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
5/8/2024 22:26	67805	WLAN_T1	239	285	46	0.19	0.21	0.02	-1.25	-1.34	0	0	0	0	0	0
5/8/2024 22:26	59101	WALK_T2	0	0	0	0	0	0	1.4	1.21	0	0	0	0	0	0
5/8/2024 22:26	47401	PENS_T1	0	0	0	0	0	0	1.02	1.04	0	0	0	0	0	0
5/8/2024 22:26	15001	BLMO_T1	1	4	3	0.1	0.35	0.25	0	0	0	0	0	0	0	0
5/8/2024 22:26	56803	BENV_T1	60	15	-45	0.24	0.26	0.02	0	0	0	0	0	0	0	0
5/8/2024 22:26	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/8/2024 22:27	56802	BENV_T2	455	390	-65	0.78	0.58	-0.2	-2.52	-2.6	0	0	0	0	0	0
5/8/2024 22:27	44301	BEAV_T2	5	261	256	1.08	0.54	-0.54	0.7	0.69	1	1	0	600	600	0
5/8/2024 22:27	42201	SHEN_T2	0	0	0	0	0	0	0.07	0.02	1	1	0	600	600	0
5/8/2024 22:27	53901	HALI_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/8/2024 22:27	53902	HALI_T2	1	1	0	5.3	5.8	0.5	-0.26	-0.88	0	0	0	0	0	0
5/8/2024 22:27	53903	HALI_T2	2	2	0	1.35	1.35	0	-0.1	-0.09	0	0	0	0	0	0
5/8/2024 22:27	59101	WALK_T2	0	0	0	0	0	0	1.4	1.21	0	0	0	0	0	0
5/8/2024 22:28	56803	BENV_T1	60	15	-45	0.24	0.26	0.02	-0.07	-0.08	1	1	0	600	600	0
5/8/2024 22:28	55002	NEWP_T1	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
5/8/2024 22:28	56802	BENV_T2	455	390	-65	0.78	0.58	-0.2	-0.63	-0.65	0	0	0	0	0	0
5/8/2024 22:28	40902	JESH_T1	1	45	44	0.1	0.12	0.02	-0.72	-0.75	0	0	0	0	0	0
5/8/2024 22:28	56801	BENV_T1	17	18	1	0.59	0.58	-0.01	0	0	0	0	0	0	0	0
5/8/2024 22:28	53903	HALI_T2	2	2	0	1.35	1.35	0	-0.1	-0.09	0	0	0	0	0	0
5/8/2024 22:28	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
5/8/2024 22:28	40901	JESH_T1	6	47	41	0.1	0.17	0.07	0	0	0	0	0	0	0	0
5/8/2024 22:28	40903	JESH_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/8/2024 22:28	53901	HALI_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/8/2024 22:29	56801	BENV_T1	17	18	1	0.59	0.58	-0.01	0	0	0	0	0	0	0	0
5/8/2024 22:29	56803	BENV_T1	60	15	-45	0.24	0.26	0.02	-0.07	-0.08	1	1	0	600	600	0
5/8/2024 22:30	47401	PENS_T1	0	0	0	0	0	0	1.02	1.04	0	0	0	0	0	0
5/8/2024 22:31	64101	REFR_T1	0	0	0	0	0	0	0.21	0.04	0	0	0	0	0	0
5/8/2024 22:31	42903	MIDD_T2	2	2	0	0.75	1.2	0.45	0	0	0	0	0	0	0	0
5/8/2024 22:31	63602	LETO_T1	0	0	0	0	0	0	-0.8	-0.8	1	1	0	600	600	0
5/8/2024 22:31	42902	MIDD_T2	0	0	0	0	0	0	-1.14	-1.09	1	1	0	600	600	0
5/8/2024 22:31	44301	BEAV_T2	5	130	125	0.54	8.88	8.34	0.7	0.69	1	1	0	600	600	0
5/8/2024 22:32	63803	HEMP_T1	0	35	35	0	0.13	0.13	0	0	0	0	0	0	0	0
5/8/2024 22:32	63804	HEMP_T1	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
5/8/2024 22:32	60605	NCOL_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
5/8/2024 22:32	67502	WEWI_T2	3	0	-3	0.1	0	-0.1	-1.29	-1.31	1	1	0	900	900	0
5/8/2024 22:32	63802	HEMP_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
5/8/2024 22:32	64101	REFR_T1	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
5/8/2024 22:32	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/8/2024 22:33	63804	HEMP_T1	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
5/8/2024 22:33	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/8/2024 22:33	63803	HEMP_T1	0	35	35	0	0.13	0.13	0.75	0.75	0	0	0	0	0	0
5/8/2024 22:34	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/8/2024 22:34	63803	HEMP_T1	0	35	35	0	0.13	0.13	0	0	0	0	0	0	0	0
5/8/2024 22:34	63804	HEMP_T1	1	1	0	6.4	6.2	-0.2	0.64	0.62	0	0	0	0	0	0
5/8/2024 22:36	44301	BEAV_T2	5	130	125	0.54	8.88	8.34	0.7	0.69	1	1	0	600	600	0
5/8/2024 22:39	14203	EALL_T1	0	0	0	0	0	0	-0.18	-0.26	1	1	0	1200	1200	0
5/8/2024 22:39	14207	EALL_T1	1	1	0	2.2	1.8	-0.4	0	0	0	0	0	0	0	0
5/8/2024 22:50	56501	ROCK_T2	0	2	2	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
5/8/2024 22:57	50701	SMEC_T1	0	0	0	0	0	0	-0.5	-0.58	1	1	0	900	900	0
5/8/2024 23:00	29401	BELT_T1	0	1	1	0	0	0	0	0	1	1	0	900	900	0
5/8/2024 23:00	29402	BELT_T1	1	1	0	7.6	7.3	-0.3	0	0	0	0	0	0	0	0
5/8/2024 23:01	62105	ELAN_T1	0	0	0	0	0	0	0.68	0.64	0	0	0	0	0	0
5/8/2024 23:06	63304	GREE_T1	0	0	0	0	0	0	-0.34	-0.41	0	0	0	0	0	0
5/8/2024 23:06	53903	HALI_T2	2	2	0	0.9	1.4	0.5	0	0	0	0	0	0	0	0
5/8/2024 23:06	53901	HALI_T2	1	1	0	0.8	1.2	0.4	-1.45	-1.47	0	0	0	0	0	0
5/8/2024 23:06	53902	HALI_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
5/8/2024 23:18	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
5/8/2024 23:18	67605	WARW_T1	20	22	2	0.38	0.6	0.22	0	0	0	0	0	0	0	0
5/8/2024 23:29	59201	THOM_T1	55	59	4	0.55	0.48	-0.07	0	0	0	0	0	0	0	0
5/8/2024 23:29	59202	THOM_T1	647	665	18	0.6	0.59	-0.01	0	0	0	0	0	0	0	0
5/8/2024 23:39	44301	BEAV_T2	0	0	0	0	0	0	0.07	0.2	1	1	0	600	600	0
5/9/2024 1:02	20603	GRWO_T2	0	1	1	0	5.8	5.8	0.62	0.62	0	0	0	0	0	0
5/9/2024 1:02	20601	GRWO_T2	2	9	7	0.1	0.16	0.06	0	0	0	0	0	0	0	0
5/9/2024 6:38	15001	BLMO_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/9/2024 6:50	65702	RVIL_T2	0	0	0	0	0	0	-1.01	-1.04	1	1	0	600	600	0
5/9/2024 7:07	56801	BENV_T1	6	23	17	0.5	0.99	0.49	-0.28	-0.26	0	0	0	0	0	0
5/9/2024 7:07	56803	BENV_T1	3	44	41	1.33	0.15	-1.18	0	0	0	0	0	0	0	0
5/9/2024 7:09	20401	ASHF_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/9/2024 7:09	56802	BENV_T2	141	726	585	0.19	0.51	0.32	-0.77	-0.77	0	0	0	0	0	0
5/9/2024 7:09	20403	ASHF_T2	0	0	0	0	0	0	0.11	0.32	0	0	0	0	0	0
5/9/2024 7:11	56802	BENV_T2	141	726	585	0.19	0.51	0.32	-0.77	-0.77	0	0	0	0	0	0
5/9/2024 7:12	56801	BENV_T1	6	23	17	0.5	0.99	0.49	-0.26	-0.23	0	0	0	0	0	0
5/9/2024 7:12	56803	BENV_T1	3	44	41	1.33	0.15	-1.18	0	0	0	0	0	0	0	0
5/9/2024 7:13	51104	CARL_T1	1	0	-1	2.8	0	-2.8	0	0	0	0	0	0	0	0
5/9/2024 7:13	51107	CARL_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
5/9/2024 7:15	62102	ELAN_T1	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
5/9/2024 7:17	55002	NEWP_T1	6	6	0	1.17	1.15	-0.02	-0.28	-0.27	0	0	0	0	0	0
5/9/2024 7:20	55002	NEWP_T1	6	6	0	1.17	1.15	-0.02	-0.57	-0.53	0	0	0	0	0	0
5/9/2024 7:22	16301	ALPA_T1	2	1	-1	0.3	0.4	0.1	-0.52	-0.51	0	0	0	0	0	0
5/9/2024 7:24	22003	BOHE_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
5/9/2024 7:24	22002	BOHE_T1	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
5/9/2024 7:25	56802	BENV_T2	697	686	-11	0.52	0.41	-0.11	-0.77	-0.73	0	0	0	0	0	0
5/9/2024 7:26	29401	BELT_T1	0	41	41	0	0.18	0.18	0	0	0	0	0	0	0	0
5/9/2024 7:26	29402	BELT_T1	1	1	0	8	9	1	0	0	0	0	0	0	0	0
5/9/2024 7:27	56802	BENV_T2	697	686	-11	0.52	0.41	-0.11	-0.77	-0.73	0	0	0	0	0	0
5/9/2024 7:28	46801	HEPB_T2	2	2	0	0.4	0.8	0.4	0.51	0.54	0	0	0	0	0	0
5/9/2024 7:33	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/9/2024 7:33	47401	PENS_T1	0	0	0	0	0	0	0.93	1.04	0	0	0	0	0	0
5/9/2024 7:34	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/9/2024 7:34	47401	PENS_T1	0	0	0	0	0	0	0.93	1.04	0	0	0	0	0	0
5/9/2024 7:35	43202	MVIL_T2	62	75	13	0.32	0.35	0.03	-0.63	-0.63	0	0	0	0	0	0
5/9/2024 7:36	50701	SMEC_T1	0	0	0	0	0	0	-1.99	-2	1	1	0	900	900	0
5/9/2024 7:36	14603	SWHI_T1	0	0	0	0	0	0	-1.74	-1.76	2	2	0	1200	1200	0
5/9/2024 7:37	13901	SEID_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
5/9/2024 7:37	67703	WERN_T2	0	0	0	0	0	0	-0.33	-0.29	1	1	0	900	900	0
5/9/2024 7:37	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 7:38	50701	SMEC_T1	0	0	0	0	0	0	-2	-1.92	1	1	0	900	900	0
5/9/2024 7:40	61503	EPET_T1	0	0	0	0	0	0	-1.03	-0.98	0	0	0	0	0	0
5/9/2024 7:41	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 7:42	61103	BERK_T5	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
5/9/2024 7:42	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 7:44	41502	FAIR_T2	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
5/9/2024 7:46	64904	MILL_T1	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
5/9/2024 7:46	64901	MILL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 7:48	64801	MONE_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/9/2024 7:48	64802	MONE_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
5/9/2024 7:48	46102	MACI_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
5/9/2024 7:49	14401	SSLA_T1	1	0	-1	0.1	0	-0.1	0.56	0.51	0	0	0	0	0	0
5/9/2024 7:49	14402	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/9/2024 7:49	14404	SSLA_T1	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
5/9/2024 7:50	65603	QVIL_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
5/9/2024 7:52	67703	WERN_T2	0	0	0	0	0	0	-0.29	-0.31	1	1	0	900	900	0
5/9/2024 7:52	43802	SWIL_T1	0	0	0	0	0	0	-0.21	-0.19	1	1	0	600	600	0
5/9/2024 7:52	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
5/9/2024 7:52	43801	SWIL_T1	21	12	-9	0.37	0.57	0.2	0	0	0	0	0	0	0	0
5/9/2024 7:53	67703	WERN_T2	0	0	0	0	0	0	-0.31	-0.3	1	1	0	900	900	0
5/9/2024 7:54	43801	SWIL_T1	21	12	-9	0.37	0.57	0.2	0	0	0	0	0	0	0	0
5/9/2024 7:54	43802	SWIL_T1	0	0	0	0	0	0	-0.19	-0.22	1	1	0	600	600	0
5/9/2024 7:54	67702	WERN_T2	0	0	0	0	0	0	-0.04	-0.01	0	0	0	0	0	0
5/9/2024 7:55	67703	WERN_T2	0	0	0	0	0	0	-0.31	-0.3	1	1	0	900	900	0
5/9/2024 7:57	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 7:57	62605	ENGL_T1	0	0	0	0	0	0	-0.74	-0.76	0	0	0	0	0	0
5/9/2024 7:57	63305	GREE_T1	1	0	-1	0.1	0	-0.1	-1.06	-0.92	0	0	0	0	0	0
5/9/2024 7:58	62104	ELAN_T1	0	0	0	0	0	0	0.4	0.45	2	2	0	1500	1500	0
5/9/2024 7:58	62106	ELAN_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 7:58	62605	ENGL_T1	0	0	0	0	0	0	-0.74	-0.76	0	0	0	0	0	0
5/9/2024 7:58	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 7:59	62104	ELAN_T1	0	0	0	0	0	0	0.4	0.45	2	2	0	1500	1500	0
5/9/2024 7:59	62106	ELAN_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 8:00	63305	GREE_T1	0	0	0	0	0	0	-1.06	-0.92	0	0	0	0	0	0
5/9/2024 8:00	62607	ENGL_T1	1	1	0	0	0	0	-1.1	-1.06	1	1	0	300	300	0
5/9/2024 8:00	64702	LITI_T2	0	0	0	0	0	0	-0.67	-0.6	0	0	0	0	0	0
5/9/2024 8:01	64702	LITI_T2	0	0	0	0	0	0	-0.67	-0.6	0	0	0	0	0	0
5/9/2024 8:02	64702	LITI_T2	0	0	0	0	0	0	-0.67	-0.6	0	0	0	0	0	0
5/9/2024 8:05	67504	WEWI_T1	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
5/9/2024 8:05	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.3	0	0	0	0	0	0
5/9/2024 8:05	67501	WEWI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/9/2024 8:08	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.3	0	0	0	0	0	0
5/9/2024 8:08	67703	WERN_T2	0	0	0	0	0	0	-0.61	-0.51	2	2	0	1800	1800	0
5/9/2024 8:08	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/9/2024 8:09	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/9/2024 8:09	67703	WERN_T2	0	0	0	0	0	0	-0.3	-0.26	1	1	0	900	900	0
5/9/2024 8:10	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 8:10	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/9/2024 8:10	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.35	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/9/2024 8:10	15204	SFAR_T2	0	0	0	0	0	0	-0.05	-0.02	0	0	0	0	0	0
5/9/2024 8:15	46004	BERW_T2	0	0	0	0	0	0	0.07	-0.02	0	0	0	0	0	0
5/9/2024 8:15	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/9/2024 8:18	43801	SWIL_T1	6	2	-4	0.93	2.5	1.57	0	0	0	0	0	0	0	0
5/9/2024 8:18	43802	SWIL_T1	0	0	0	0	0	0	-0.22	-0.22	1	1	0	600	600	0
5/9/2024 8:21	12505	MITR_T2	0	0	0	0	0	0	1.27	1.23	0	0	0	0	0	0
5/9/2024 8:21	12502	MITR_T2	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
5/9/2024 8:25	45501	DERR_T2	2	2	0	0.3	0.7	0.4	0.73	0.6	2	2	0	1800	1800	0
5/9/2024 8:26	15701	TANN_T1	1	2	1	4.8	2.35	-2.45	0	0	0	0	0	0	0	0
5/9/2024 8:26	45501	DERR_T2	2	2	0	0.3	0.7	0.4	0.73	0.6	2	2	0	1800	1800	0
5/9/2024 8:26	15704	TANN_T1	0	0	0	0	0	0	-1.35	-1.3	0	0	0	0	0	0
5/9/2024 8:29	10805	CHHI_T2	2	2	0	4.85	8.4	3.55	-0.34	-0.93	1	1	0	600	600	0
5/9/2024 8:32	58401	MORO_T1	0	0	0	0	0	0	-0.96	-1	1	1	0	600	600	0
5/9/2024 8:33	55002	NEWP_T1	6	9	3	0.87	1	0.13	-0.26	-0.24	0	0	0	0	0	0
5/9/2024 8:33	56501	ROCK_T2	0	4	4	0	0.15	0.15	-0.01	-0.01	0	0	0	0	0	0
5/9/2024 8:34	57401	SPAN_T1	2	2	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/9/2024 8:34	54001	SDLE_T1	9	14	5	1.11	0.89	-0.22	0	0	0	0	0	0	0	0
5/9/2024 8:34	55002	NEWP_T1	6	9	3	0.87	1	0.13	-0.26	-0.24	0	0	0	0	0	0
5/9/2024 8:34	57403	SPAN_T1	6	27	21	0.13	0.22	0.09	-0.08	-0.08	0	0	0	0	0	0
5/9/2024 8:35	56501	ROCK_T2	0	4	4	0	0.15	0.15	-0.02	-0.02	0	0	0	0	0	0
5/9/2024 8:35	55002	NEWP_T1	6	9	3	0.87	1	0.13	-0.26	-0.24	0	0	0	0	0	0
5/9/2024 8:35	54001	SDLE_T1	9	14	5	1.11	0.89	-0.22	0	0	0	0	0	0	0	0
5/9/2024 8:35	50701	SMEC_T1	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
5/9/2024 8:36	55002	NEWP_T1	6	9	3	0.87	1	0.13	-0.26	-0.24	0	0	0	0	0	0
5/9/2024 8:36	13302	ORVI_T2	1	1	0	0.5	0.4	-0.1	1.34	1.47	0	0	0	0	0	0
5/9/2024 8:37	58401	MORO_T1	0	0	0	0	0	0	-0.96	-1	1	1	0	600	600	0
5/9/2024 8:39	15001	BLMO_T1	3	3	0	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
5/9/2024 8:40	54001	SDLE_T1	9	14	5	1.11	0.89	-0.22	0	0	0	0	0	0	0	0
5/9/2024 8:40	15203	SFAR_T2	0	2	2	0	0.2	0.2	-1.32	-1.3	0	0	0	0	0	0
5/9/2024 8:46	46506	LOHA_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
5/9/2024 8:46	46504	LOHA_T1	1	2	1	0.3	1	0.7	0	0	0	0	0	0	0	0
5/9/2024 8:47	46504	LOHA_T1	1	2	1	0.3	1	0.7	0	0	0	0	0	0	0	0
5/9/2024 8:47	46506	LOHA_T1	0	0	0	0	0	0	-0.89	-0.85	0	0	0	0	0	0
5/9/2024 8:48	46506	LOHA_T1	0	0	0	0	0	0	-0.89	-0.85	0	0	0	0	0	0
5/9/2024 8:48	46504	LOHA_T1	1	2	1	0.3	1	0.7	0	0	0	0	0	0	0	0
5/9/2024 8:52	45902	AUBU_T1	0	0	0	0	0	0	-0.65	-0.41	1	1	0	600	600	0
5/9/2024 8:53	45901	AUBU_T1	0	0	0	0	0	0	1.37	1.46	0	0	0	0	0	0
5/9/2024 8:54	65603	QVIL_T2	0	0	0	0	0	0	0.22	0.27	0	0	0	0	0	0
5/9/2024 8:54	15001	BLMO_T1	3	3	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/9/2024 8:55	15001	BLMO_T1	3	3	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/9/2024 8:55	45902	AUBU_T1	0	0	0	0	0	0	-0.41	-0.47	1	1	0	600	600	0
5/9/2024 8:57	53901	HALI_T2	1	1	0	0.5	1.1	0.6	-1.1	-1.06	0	0	0	0	0	0
5/9/2024 8:57	45902	AUBU_T1	0	0	0	0	0	0	-0.41	-0.47	1	1	0	600	600	0
5/9/2024 8:57	53902	HALI_T2	1	3	2	5.9	2.57	-3.33	0	0	0	0	0	0	0	0
5/9/2024 8:57	53903	HALI_T2	2	3	1	1.6	1.2	-0.4	0	0	0	0	0	0	0	0
5/9/2024 8:58	61801	EELI_T2	0	0	0	0	0	0	-0.73	-0.71	1	1	0	600	600	0
5/9/2024 8:58	53902	HALI_T2	1	3	2	5.9	2.57	-3.33	0	0	0	0	0	0	0	0
5/9/2024 8:58	53901	HALI_T2	1	1	0	0.5	1.1	0.6	-2.21	-2.12	0	0	0	0	0	0
5/9/2024 8:58	51101	CARL_T1	0	0	0	0	0	0	-1.13	-1.2	1	1	0	600	600	0
5/9/2024 8:58	53903	HALI_T2	2	3	1	1.6	1.2	-0.4	0	0	0	0	0	0	0	0
5/9/2024 8:59	53902	HALI_T2	1	3	2	5.9	2.57	-3.33	0	0	0	0	0	0	0	0
5/9/2024 8:59	53901	HALI_T2	1	1	0	0.5	1.1	0.6	-1.1	-1.06	0	0	0	0	0	0
5/9/2024 8:59	50107	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 8:59	50105	HARR_T3	6	6	0	5.4	5.15	-0.25	0	0	0	0	0	0	0	0
5/9/2024 8:59	50103	HARR_T3	2	2	0	0.75	1.1	0.35	-0.85	-0.8	1	1	0	1200	1200	0
5/9/2024 8:59	53903	HALI_T2	2	3	1	1.6	1.2	-0.4	0	0	0	0	0	0	0	0
5/9/2024 8:59	50201	HARR_T3	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
5/9/2024 9:00	43801	SWIL_T1	1	1	0	4.9	5	0.1	0	0	0	0	0	0	0	0
5/9/2024 9:00	43802	SWIL_T1	0	0	0	0	0	0	-0.2	-0.2	1	1	0	600	600	0
5/9/2024 9:02	53903	HALI_T2	2	3	1	1.7	1.23	-0.47	0	0	0	0	0	0	0	0
5/9/2024 9:02	47802	MOCA_T2	2	2	0	0.6	0.7	0.1	-1	-1.03	0	0	0	0	0	0
5/9/2024 9:02	53901	HALI_T2	1	1	0	1.1	1.1	0	-2.21	-2.12	0	0	0	0	0	0
5/9/2024 9:02	53902	HALI_T2	2	3	1	3.2	2.57	-0.63	0	0	0	0	0	0	0	0
5/9/2024 9:05	51702	OBER_T1	2	2	0	3.75	3.65	-0.1	-0.42	-0.42	0	0	0	0	0	0
5/9/2024 9:06	67803	WLAN_T1	0	0	0	0	0	0	-0.9	-0.87	0	0	0	0	0	0
5/9/2024 9:07	51702	OBER_T1	2	2	0	3.75	3.65	-0.1	-0.42	-0.42	0	0	0	0	0	0
5/9/2024 9:07	58003	WCAR_T1	15	26	11	0.25	0.2	-0.05	0.13	0.15	1	1	0	600	600	0
5/9/2024 9:07	58001	WCAR_T1	3	3	0	0.8	1.03	0.23	0	0	0	0	0	0	0	0
5/9/2024 9:07	67804	WLAN_T1	0	0	0	0	0	0	-1.12	-1.15	0	0	0	0	0	0
5/9/2024 9:08	67804	WLAN_T1	0	0	0	0	0	0	-2.3	-2.24	0	0	0	0	0	0
5/9/2024 9:08	67802	WLAN_T1	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
5/9/2024 9:08	67803	WLAN_T1	0	0	0	0	0	0	-2.61	-2.67	0	0	0	0	0	0
5/9/2024 9:09	67803	WLAN_T1	0	0	0	0	0	0	-0.87	-0.89	0	0	0	0	0	0
5/9/2024 9:10	58003	WCAR_T1	15	26	11	0.25	0.2	-0.05	0.45	0.39	3	3	0	1800	1800	0
5/9/2024 9:10	58001	WCAR_T1	3	3	0	0.8	1.03	0.23	0	0	0	0	0	0	0	0
5/9/2024 9:10	67801	WLAN_T1	0	0	0	0	0	0	0.16	0.1	0	0	0	0	0	0
5/9/2024 9:10	67804	WLAN_T1	0	0	0	0	0	0	-1.15	-1.12	0	0	0	0	0	0
5/9/2024 9:10	46001	BERW_T1	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
5/9/2024 9:11	67803	WLAN_T1	0	0	0	0	0	0	-0.87	-0.89	0	0	0	0	0	0
5/9/2024 9:11	10801	CHHI_T1	0	4	4	0	0.33	0.33	-0.81	-0.77	1	1	0	900	900	0
5/9/2024 9:12	29402	BELT_T1	1	2	1	8.3	4.35	-3.95	0	0	0	0	0	0	0	0
5/9/2024 9:12	46001	BERW_T1	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
5/9/2024 9:12	62607	ENGL_T1	1	1	0	0	0	0	-2.23	-2.2	0	0	0	0	0	0
5/9/2024 9:13	62607	ENGL_T1	1	1	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
5/9/2024 9:13	67804	WLAN_T1	0	0	0	0	0	0	-2.3	-2.24	0	0	0	0	0	0
5/9/2024 9:13	47001	HUGH_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
5/9/2024 9:14	62607	ENGL_T1	1	1	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
5/9/2024 9:16	47001	HUGH_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
5/9/2024 9:19	13704	SCHN_T2	0	1	1	0	0.2	0.2	-0.29	-0.28	0	0	0	0	0	0
5/9/2024 9:20	54001	SDLE_T1	14	10	-4	0.86	1.1	0.24	0	0	0	0	0	0	0	0
5/9/2024 9:22	48302	ORWI_T2	2	2	0	0.85	0.9	0.05	0.05	0.02	0	0	0	0	0	0
5/9/2024 9:23	20403	ASHF_T2	4	14	10	0.5	0.51	0.01	0.84	0.54	0	0	0	0	0	0
5/9/2024 9:23	54001	SDLE_T1	14	10	-4	0.86	1.1	0.24	0	0	0	0	0	0	0	0
5/9/2024 9:23	20401	ASHF_T2	4	9	5	0.4	0.61	0.21	0	0	0	0	0	0	0	0
5/9/2024 9:25	29402	BELT_T1	1	3	2	8.5	2.97	-5.53	0	0	0	0	0	0	0	0
5/9/2024 9:26	20403	ASHF_T2	4	14	10	0.5	0.51	0.01	0.84	0.54	0	0	0	0	0	0
5/9/2024 9:26	20401	ASHF_T2	4	9	5	0.4	0.61	0.21	0	0	0	0	0	0	0	0
5/9/2024 9:32	55001	NEWP_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/9/2024 9:32	55002	NEWP_T1	11	9	-2	0.98	0.92	-0.06	-0.2	-0.28	0	0	0	0	0	0
5/9/2024 9:33	55001	NEWP_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/9/2024 9:33	55002	NEWP_T1	11	9	-2	0.98	0.92	-0.06	-0.2	-0.28	0	0	0	0	0	0
5/9/2024 9:36	24602	VARD_T2	368	386	18	0.33	0.38	0.05	-0.84	-0.83	0	0	0	0	0	0
5/9/2024 9:36	24603	VARD_T2	3	2	-1	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
5/9/2024 9:47	43202	MVIL_T2	93	95	2	0.96	0.8	-0.16	-0.63	-0.6	0	0	0	0	0	0
5/9/2024 9:48	41902	REED_T1	0	0	0	0	0	0	1.15	1.2	0	0	0	0	0	0
5/9/2024 9:48	55001	NEWP_T1	2	0	-2	0.4	0	-0.4	0.08	0.1	0	0	0	0	0	0
5/9/2024 9:48	55002	NEWP_T1	9	6	-3	0.92	1.08	0.16	0	0	0	0	0	0	0	0
5/9/2024 9:48	13503	MCMI_T2	1	1	0	1	0.5	-0.5	-0.01	-0.01	0	0	0	0	0	0
5/9/2024 9:49	13103	NHAM_T2	0	0	0	0	0	0	-1.69	-1.67	1	1	0	600	600	0
5/9/2024 9:50	41902	REED_T1	0	0	0	0	0	0	1.15	1.2	0	0	0	0	0	0
5/9/2024 9:53	14802	TREI_T2	9	5	-4	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
5/9/2024 9:53	14801	TREI_T2	39	17	-22	0.19	0.25	0.06	0.33	0.37	0	0	0	0	0	0
5/9/2024 9:54	14801	TREI_T2	39	17	-22	0.19	0.25	0.06	0.37	0.34	0	0	0	0	0	0
5/9/2024 9:54	43301	WATS_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/9/2024 9:54	55101	WERT_T1	0	0	0	0	0	0	-0.92	-0.88	2	2	0	1500	1500	0
5/9/2024 9:54	14802	TREI_T2	9	5	-4	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
5/9/2024 9:54	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 9:55	14802	TREI_T2	9	5	-4	0.13	0.1	-0.03	0.41	0.39	0	0	0	0	0	0
5/9/2024 9:55	14801	TREI_T2	39	17	-22	0.19	0.25	0.06	0	0	0	0	0	0	0	0
5/9/2024 9:55	10705	CATA_T2	1	0	-1	0.3	0	-0.3	-0.96	-0.95	1	1	0	900	900	0
5/9/2024 9:56	10705	CATA_T2	1	0	-1	0.3	0	-0.3	-0.96	-0.95	1	1	0	900	900	0
5/9/2024 9:58	53601	DALM_T2	1	1	0	0.5	0.4	-0.1	0.15	0.13	0	0	0	0	0	0
5/9/2024 10:00	54601	SUMM_T2	1	6	5	0.2	0.43	0.23	0	0	0	0	0	0	0	0
5/9/2024 10:00	65003	NEFF_T2	4	4	0	0.18	0.25	0.07	0	0	0	0	0	0	0	0
5/9/2024 10:00	54602	SUMM_T2	0	0	0	0	0	0	-2.45	-2.43	1	1	0	600	600	0
5/9/2024 10:00	56803	BENV_T1	86	146	60	0.22	0.25	0.03	-0.1	-0.1	1	1	0	600	600	0
5/9/2024 10:00	60803	BUCK_T1	9	7	-2	0.22	0.16	-0.06	0	0	0	0	0	0	0	0
5/9/2024 10:00	40505	CRES_T1	4	4	0	4.45	4.43	-0.02	0.42	0.42	0	0	0	0	0	0
5/9/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
5/9/2024 10:00	52503	PROG_T2	0	0	0	0	0	0	-0.52	-0.55	1	1	0	900	900	0
5/9/2024 10:00	10805	CHHI_T2	1	6	5	8.2	8.7	0.5	-1.08	-0.91	1	1	0	600	600	0
5/9/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
5/9/2024 10:00	53502	EVIL_T2	0	0	0	0	0	0	0.04	0.04	2	2	0	1200	1200	0
5/9/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	1.09	1.03	0	0	0	0	0	0
5/9/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.4	-0.38	4	4	0	3000	3000	0
5/9/2024 10:00	24701	FLND_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
5/9/2024 10:00	54502	ENOL_T2	1	1	0	1.5	1.8	0.3	0	0	0	0	0	0	0	0
5/9/2024 10:00	43103	SMIL_T2	16	17	1	0.47	0.55	0.08	0	0	0	0	0	0	0	0
5/9/2024 10:00	29402	BELT_T1	2	2	0	4.35	4.35	0	0	0	0	0	0	0	0	0
5/9/2024 10:00	66302	MCGO_T2	426	465	39	0.52	1.18	0.66	-1.89	-2.04	1	1	0	600	600	0
5/9/2024 10:00	47402	PENS_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/9/2024 10:00	43105	SMIL_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
5/9/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.01	0	1	1	0	1200	1200	0
5/9/2024 10:00	65702	RVIL_T2	0	0	0	0	0	0	-0.88	-0.85	1	1	0	600	600	0
5/9/2024 10:00	50502	MECH_T1	1	1	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
5/9/2024 10:00	21901	HUMB_T1	1	0	-1	4.3	0	-4.3	-0.93	-0.95	0	0	0	0	0	0
5/9/2024 10:00	62607	ENGL_T1	1	1	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
5/9/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	0.14	0.26	0	0	0	0	0	0
5/9/2024 10:00	42001	MNVL_T2	2	2	0	0.3	0.2	-0.1	-0.06	-0.06	0	0	0	0	0	0
5/9/2024 10:00	22102	EDEL_T1	0	1	1	0	0.1	0.1	-1.36	-1.34	1	1	0	1200	1200	0
5/9/2024 10:00	53901	HALI_T2	1	1	0	1.1	1.1	0	-1.05	-1.07	0	0	0	0	0	0
5/9/2024 10:00	11101	EGYP_T1	0	0	0	0	0	0	3.1	3.08	0	0	0	0	0	0
5/9/2024 10:00	56601	HAMP_T1	0	0	0	0	0	0	1.89	1.86	0	0	0	0	0	0
5/9/2024 10:00	45902	AUBU_T1	1	1	0	0.1	0.4	0.3	-0.79	-0.85	2	2	0	1200	1200	0
5/9/2024 10:00	40702	FFLD_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/9/2024 10:00	14401	SSLA_T1	1	2	1	0.8	0.35	-0.45	0.57	0.57	0	0	0	0	0	0
5/9/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-1.32	-1.31	2	2	0	2100	2100	0
5/9/2024 10:00	60101	COCA_T1	0	0	0	0	0	0	0.37	0.29	0	0	0	0	0	0
5/9/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
5/9/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
5/9/2024 10:00	51004	NHAR_T1	13	13	0	1.08	1.23	0.15	0	0	0	0	0	0	0	0
5/9/2024 10:00	40601	PIGR_T1	43	62	19	0.26	0.26	0	0	0	0	0	0	0	0	0
5/9/2024 10:00	53501	EVIL_T2	1	1	0	0.7	0.4	-0.3	0.36	0.4	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/9/2024 10:00	67804	WLAN_T1	3	4	1	0.1	0.15	0.05	-1.13	-1.13	0	0	0	0	0	0
5/9/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.3	-0.4	0	0	0	0	0	0
5/9/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	-0.88	-0.82	1	1	0	600	600	0
5/9/2024 10:00	62101	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 10:00	24101	EHAZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/9/2024 10:00	47403	PENS_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 10:00	22405	MORG_T2	0	0	0	0	0	0	-1.45	-1.53	0	0	0	0	0	0
5/9/2024 10:00	14402	SSLA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/9/2024 10:00	16102	BING_T2	0	0	0	0	0	0	-0.18	-0.2	1	1	0	1200	1200	0
5/9/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
5/9/2024 10:00	12604	MACA_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
5/9/2024 10:00	40703	FFLD_T1	0	1	1	0	0.2	0.2	0.28	0.32	0	0	0	0	0	0
5/9/2024 10:00	45602	WOOL_T1	0	1	1	0	2	2	0.52	0.47	0	0	0	0	0	0
5/9/2024 10:00	58001	WCAR_T1	4	4	0	0.83	0.65	-0.18	0	0	0	0	0	0	0	0
5/9/2024 10:00	43301	WATS_T2	1	4	3	0.6	0.6	0	0	0	0	0	0	0	0	0
5/9/2024 10:00	40603	PIGR_T1	0	0	0	0	0	0	0.32	0.27	0	0	0	0	0	0
5/9/2024 10:00	63306	GREE_T1	0	0	0	0	0	0	-1.12	-1.11	0	0	0	0	0	0
5/9/2024 10:00	57104	SPHI_T2	0	0	0	0	0	0	-0.42	-0.45	0	0	0	0	0	0
5/9/2024 10:00	58102	NEKI_T1	1	1	0	1.4	1.8	0.4	-0.84	-0.83	1	1	0	1200	1200	0
5/9/2024 10:00	13704	SCHN_T2	1	1	0	0.5	0.2	-0.3	-0.25	-0.27	0	0	0	0	0	0
5/9/2024 10:00	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.64	0.66	2	2	0	1200	1200	0
5/9/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.26	-0.33	1	1	0	600	600	0
5/9/2024 10:00	14403	SSLA_T1	2	3	1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
5/9/2024 10:00	43102	SMIL_T2	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/9/2024 10:00	40701	FFLD_T1	31	32	1	0.25	0.28	0.03	0	0	0	0	0	0	0	0
5/9/2024 10:00	40504	CRES_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/9/2024 10:00	54505	ENOL_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
5/9/2024 10:00	56802	BENV_T2	1156	1077	-79	0.64	0.58	-0.06	-0.69	-0.63	0	0	0	0	0	0
5/9/2024 10:00	47401	PENS_T1	0	0	0	0	0	0	1.1	1.09	0	0	0	0	0	0
5/9/2024 10:00	17101	WTRE_T2	20	393	373	0.11	0.37	0.26	0	0	0	0	0	0	0	0
5/9/2024 10:00	43101	SMIL_T2	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
5/9/2024 10:00	42903	MIDD_T2	0	0	0	0	0	0	0.56	0.57	1	1	0	1200	1200	0
5/9/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 10:00	12802	MICK_T1	0	0	0	0	0	0	-1.04	-1.03	0	0	0	0	0	0
5/9/2024 10:00	12807	MICK_T1	1	0	-1	0.2	0	-0.2	0.23	0.22	0	0	0	0	0	0
5/9/2024 10:00	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 10:00	50501	MECH_T1	4	4	0	1.05	0.53	-0.52	0	0	0	0	0	0	0	0
5/9/2024 10:00	54001	SDLE_T1	9	9	0	1.04	1.07	0.03	0	0	0	0	0	0	0	0
5/9/2024 10:00	45702	LIND_T2	1	2	1	0.8	0.6	-0.2	-0.38	-0.37	0	0	0	0	0	0
5/9/2024 10:00	48302	ORWI_T2	2	2	0	0.8	0.75	-0.05	0.05	0.09	0	0	0	0	0	0
5/9/2024 10:00	45501	DERR_T2	1	2	1	0.7	0.6	-0.1	0.59	0.67	2	2	0	1800	1800	0
5/9/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.15	1.11	0	0	0	0	0	0
5/9/2024 10:00	51002	NHAR_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/9/2024 10:00	56801	BENV_T1	24	22	-2	1.19	1.22	0.03	0	0	0	0	0	0	0	0
5/9/2024 10:00	42201	SHEN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/9/2024 10:00	14404	SSLA_T1	7	3	-4	1.09	2.13	1.04	0	0	0	0	0	0	0	0
5/9/2024 10:00	67002	STHI_T2	0	0	0	0	0	0	0.74	0.74	0	0	0	0	0	0
5/9/2024 10:00	43104	SMIL_T2	0	0	0	0	0	0	-0.81	-0.81	1	1	0	300	300	0
5/9/2024 10:00	64801	MONE_T2	1	1	0	0.4	0.1	-0.3	0.23	0.18	0	0	0	0	0	0
5/9/2024 10:00	45502	DERR_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/9/2024 10:00	13901	SEID_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
5/9/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
5/9/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.06	0	0	0	0	0	0
5/9/2024 10:00	14603	SWHI_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/9/2024 10:00	24105	EHAZ_T1	4	4	0	6.55	6.45	-0.1	-0.66	-0.63	1	1	0	1200	1200	0
5/9/2024 10:00	62605	ENGL_T1	0	0	0	0	0	0	-0.7	-0.67	0	0	0	0	0	0
5/9/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
5/9/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
5/9/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
5/9/2024 10:00	41902	REED_T1	0	0	0	0	0	0	3.61	3.34	0	0	0	0	0	0
5/9/2024 10:00	59201	THOM_T1	6	1	-5	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
5/9/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-1.03	-1.01	1	1	0	900	900	0
5/9/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-1.45	-1.4	2	2	0	1800	1800	0
5/9/2024 10:00	44502	HAMI_T2	1	1	0	2.2	2.4	0.2	-0.86	-0.86	0	0	0	0	0	0
5/9/2024 10:00	42002	MNVL_T2	1	1	0	3.7	3.8	0.1	0	0	0	0	0	0	0	0
5/9/2024 10:00	53903	HALI_T2	8	2	-6	0.75	1.7	0.95	-0.12	-0.14	0	0	0	0	0	0
5/9/2024 10:00	12505	MITR_T2	0	0	0	0	0	0	2.23	2.43	0	0	0	0	0	0
5/9/2024 10:00	40101	HUNT_T2	0	1	1	0	0	0	-0.49	-0.6	0	0	0	0	0	0
5/9/2024 10:00	12502	MITR_T2	1	1	0	6.7	6.9	0.2	0	0	0	0	0	0	0	0
5/9/2024 10:00	65004	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 10:00	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 10:00	50505	MECH_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
5/9/2024 10:00	61302	EARL_T1	0	0	0	0	0	0	0.74	0.84	2	2	0	1800	1800	0
5/9/2024 10:00	58003	WCAR_T1	2	2	0	1	0.85	-0.15	0.1	0.79	1	0	-1	600	0	-600
5/9/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	0.14	0.19	0	0	0	0	0	0
5/9/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-0.48	-0.37	1	1	0	1200	1200	0
5/9/2024 10:00	47002	HUGH_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
5/9/2024 10:00	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 10:00	40201	BEGA_T2	7	10	3	0.27	0.31	0.04	0	0	0	0	0	0	0	0
5/9/2024 10:00	57106	SPHI_T2	3	3	0	0.9	1.5	0.6	0	0	0	0	0	0	0	0
5/9/2024 10:00	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/9/2024 10:00	59301	MCAL_T1	3	3	0	0.6	0.4	-0.2	-1.33	-1.36	1	1	0	600	600	0
5/9/2024 10:00	65604	QVIL_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
5/9/2024 10:00	63401	HONY_T1	0	0	0	0	0	0	0.92	0.96	0	0	0	0	0	0
5/9/2024 10:00	57101	SPHI_T2	6	6	0	0.75	1.13	0.38	0	0	0	0	0	0	0	0
5/9/2024 10:00	24102	EHAZ_T1	1	6	5	0.7	0.7	0	0	0	0	0	0	0	0	0
5/9/2024 10:00	60501	NMAN_T2	3	3	0	5.3	5.23	-0.07	0	0	0	0	0	0	0	0
5/9/2024 10:00	13701	SCHN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/9/2024 10:00	59202	THOM_T1	20	10	-10	0.22	0.13	-0.09	0	0	0	0	0	0	0	0
5/9/2024 10:00	53901	HALI_T2	3	2	-1	2.47	3.1	0.63	0	0	0	0	0	0	0	0
5/9/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
5/9/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	0.43	0.22	1	1	0	600	600	0
5/9/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	1.06	1.06	0	0	0	0	0	0
5/9/2024 10:00	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 10:00	67703	WERN_T2	0	0	0	0	0	0	-0.45	-0.58	2	2	0	1800	1800	0
5/9/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.45	-0.37	0	0	0	0	0	0
5/9/2024 10:04	54201	PENN_T1	10	110	100	1.23	0.34	-0.89	-0.94	-0.96	0	0	0	0	0	0
5/9/2024 10:04	54203	PENN_T1	18	18	0	1.09	1.45	0.36	0.21	0.25	0	0	0	0	0	0
5/9/2024 10:06	63803	HEMP_T1	9	18	9	0.17	0.17	0	0	0	0	0	0	0	0	0
5/9/2024 10:06	63801	HEMP_T1	0	3	3	0	0.23	0.23	0.3	0.28	0	0	0	0	0	0
5/9/2024 10:06	63804	HEMP_T1	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
5/9/2024 10:07	53501	EVIL_T2	1	1	0	0.7	0.4	-0.3	0.72	0.8	2	2	0	1200	1200	0
5/9/2024 10:07	45602	WOOL_T1	0	1	1	0	2	2	0.52	0.47	0	0	0	0	0	0
5/9/2024 10:07	67603	WARW_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
5/9/2024 10:07	51305	WIND_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
5/9/2024 10:07	45902	AUBU_T1	1	1	0	0.1	0.4	0.3	-0.79	-0.85	2	2	0	1200	1200	0
5/9/2024 10:07	24602	VARD_T2	237	441	204	0.29	0.49	0.2	-0.78	-0.98	0	0	0	0	0	0
5/9/2024 10:07	52002	LING_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/9/2024 10:07	52004	LING_T2	0	1	1	0	0.2	0.2	0.33	0.33	0	0	0	0	0	0
5/9/2024 10:07	52006	LING_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/9/2024 10:07	59201	THOM_T1	6	1	-5	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
5/9/2024 10:07	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 10:07	46005	BERW_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/9/2024 10:07	51702	OBER_T1	2	2	0	3.65	3.3	-0.35	-0.4	-0.4	0	0	0	0	0	0
5/9/2024 10:07	15103	UPHA_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
5/9/2024 10:07	67605	WARW_T1	29	43	14	0.65	0.67	0.02	0	0	0	0	0	0	0	0
5/9/2024 10:07	24603	VARD_T2	2	9	7	0.2	0.44	0.24	0	0	0	0	0	0	0	0
5/9/2024 10:07	59002	MIFF_T1	5	5	0	0.34	0.28	-0.06	0	0	0	0	0	0	0	0
5/9/2024 10:07	46001	BERW_T1	0	0	0	0	0	0	0.75	0.73	0	0	0	0	0	0
5/9/2024 10:07	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 10:07	59003	MIFF_T1	0	0	0	0	0	0	0.55	0.64	0	0	0	0	0	0
5/9/2024 10:07	48302	ORWI_T2	2	2	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
5/9/2024 10:07	59202	THOM_T1	20	10	-10	0.22	0.13	-0.09	0	0	0	0	0	0	0	0
5/9/2024 10:07	40502	CRES_T2	0	10	10	0	0.12	0.12	0.54	0.5	0	0	0	0	0	0
5/9/2024 10:08	56501	ROCK_T2	4	5	1	0.35	0.2	-0.15	-0.01	-0.01	0	0	0	0	0	0
5/9/2024 10:08	50701	SMEC_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
5/9/2024 10:08	13701	SCHN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/9/2024 10:08	25603	ARRO_T1	0	1	1	0	0.5	0.5	-0.22	-0.17	0	0	0	0	0	0
5/9/2024 10:08	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 10:08	15404	WALL_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
5/9/2024 10:08	64302	LINC_T2	0	0	0	0	0	0	1.03	1.05	0	0	0	0	0	0
5/9/2024 10:08	42302	MOWR_T2	0	0	0	0	0	0	-0.34	-0.21	0	0	0	0	0	0
5/9/2024 10:08	15001	BLMO_T1	4	3	-1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/9/2024 10:08	13704	SCHN_T2	1	1	0	0.5	0.2	-0.3	-0.25	-0.27	0	0	0	0	0	0
5/9/2024 10:08	16902	MECK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 10:08	58803	COCO_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 10:08	46504	LOHA_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
5/9/2024 10:08	46501	LOHA_T1	0	0	0	0	0	0	-0.07	0.01	1	1	0	1200	1200	0
5/9/2024 10:08	46203	DANV_T2	0	0	0	0	0	0	-0.79	-0.77	0	0	0	0	0	0
5/9/2024 10:08	17001	RIRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 10:08	27502	WEIS_T2	0	0	0	0	0	0	-0.85	-0.81	0	0	0	0	0	0
5/9/2024 10:09	10801	CHHI_T1	6	6	0	0.45	0.53	0.08	-0.83	-0.66	1	1	0	900	900	0
5/9/2024 10:09	15001	BLMO_T1	4	3	-1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/9/2024 10:09	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 10:09	14801	TREI_T2	18	4	-14	0.76	0.25	-0.51	0.34	0.36	0	0	0	0	0	0
5/9/2024 10:09	14802	TREI_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/9/2024 10:10	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 10:10	43301	WATS_T2	1	4	3	0.6	0.6	0	0	0	0	0	0	0	0	0
5/9/2024 10:10	45902	AUBU_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/9/2024 10:10	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 10:10	45901	AUBU_T1	0	0	0	0	0	0	1.88	1.88	0	0	0	0	0	0
5/9/2024 10:10	55101	WERT_T1	0	0	0	0	0	0	-0.88	-0.97	2	2	0	1500	1500	0
5/9/2024 10:11	62607	ENGL_T1	1	1	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
5/9/2024 10:11	16301	ALPA_T1	1	1	0	0.2	0.2	0	-0.33	-0.34	0	0	0	0	0	0
5/9/2024 10:11	45602	WOOL_T1	0	1	1	0	2	2	0.47	0.44	0	0	0	0	0	0
5/9/2024 10:12	23202	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 10:12	23203	HIRU_T2	1	1	0	0.1	0.2	0.1	-0.02	-0.02	0	0	0	0	0	0
5/9/2024 10:12	23201	HIRU_T2	5	2	-3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/9/2024 10:13	23201	HIRU_T2	5	2	-3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/9/2024 10:13	53901	HALI_T2	1	1	0	1.1	1.1	0	-1.07	-1.08	0	0	0	0	0	0
5/9/2024 10:13	53903	HALI_T2	8	2	-6	0.75	1.7	0.95	0	0	0	0	0	0	0	0
5/9/2024 10:13	12002	HATF_T1	0	0	0	0	0	0	0.82	0.72	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/9/2024 10:13	53902	HALI_T2	3	2	-1	2.47	3.1	0.63	-0.23	-0.22	0	0	0	0	0	0
5/9/2024 10:13	23203	HIRU_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/9/2024 10:13	23202	HIRU_T2	0	1	1	0	0.1	0.1	0.07	0.08	0	0	0	0	0	0
5/9/2024 10:14	10801	CHHI_T1	6	6	0	0.45	0.53	0.08	-0.83	-0.66	1	1	0	900	900	0
5/9/2024 10:14	10805	CHHI_T2	1	6	5	8.2	8.7	0.5	-0.91	-0.88	1	1	0	600	600	0
5/9/2024 10:16	25501	MADI_T1	2	2	0	0.45	0.85	0.4	0	0	0	0	0	0	0	0
5/9/2024 10:16	25502	MADI_T1	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
5/9/2024 10:16	25503	MADI_T1	144	268	124	0.54	0.35	-0.19	-1.03	-1.03	0	0	0	0	0	0
5/9/2024 10:17	42001	MNVL_T2	2	1	-1	0.2	0.1	-0.1	-0.06	-0.04	0	0	0	0	0	0
5/9/2024 10:17	42002	MNVL_T2	1	1	0	3.8	3.9	0.1	0	0	0	0	0	0	0	0
5/9/2024 10:18	64902	MILL_T2	0	0	0	0	0	0	0.34	0.38	0	0	0	0	0	0
5/9/2024 10:19	23001	SAJO_T1	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
5/9/2024 10:21	47401	PENS_T1	0	0	0	0	0	0	1.09	1.07	0	0	0	0	0	0
5/9/2024 10:21	47403	PENS_T1	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
5/9/2024 10:21	60502	NMAN_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
5/9/2024 10:21	60501	NMAN_T2	3	3	0	5.23	4.4	-0.83	0	0	0	0	0	0	0	0
5/9/2024 10:21	47402	PENS_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/9/2024 10:22	47403	PENS_T1	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
5/9/2024 10:22	47401	PENS_T1	0	0	0	0	0	0	1.09	1.07	0	0	0	0	0	0
5/9/2024 10:22	54001	SDLE_T1	9	9	0	1.06	1	-0.06	0	0	0	0	0	0	0	0
5/9/2024 10:22	47402	PENS_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/9/2024 10:23	45902	AUBU_T1	1	0	-1	0.4	0	-0.4	-0.37	-0.46	1	1	0	600	600	0
5/9/2024 10:24	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/9/2024 10:24	45902	AUBU_T1	1	0	-1	0.4	0	-0.4	-0.37	-0.46	1	1	0	600	600	0
5/9/2024 10:25	45902	AUBU_T1	1	0	-1	0.4	0	-0.4	-0.74	-0.92	2	2	0	1200	1200	0
5/9/2024 10:25	67702	WERN_T2	0	0	0	0	0	0	-0.03	-0.1	0	0	0	0	0	0
5/9/2024 10:25	67703	WERN_T2	0	0	0	0	0	0	-0.51	-0.48	2	2	0	1800	1800	0
5/9/2024 10:25	16301	ALPA_T1	1	1	0	0.2	0.2	0	-0.34	-0.33	0	0	0	0	0	0
5/9/2024 10:26	67702	WERN_T2	0	0	0	0	0	0	-0.03	-0.1	0	0	0	0	0	0
5/9/2024 10:26	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 10:26	67703	WERN_T2	0	0	0	0	0	0	-0.25	-0.24	1	1	0	900	900	0
5/9/2024 10:26	14801	TREI_T2	3	4	1	0.3	0.3	0	0	0	0	0	0	0	0	0
5/9/2024 10:26	45902	AUBU_T1	1	0	-1	0.4	0	-0.4	-0.37	-0.46	1	1	0	600	600	0
5/9/2024 10:26	43301	WATS_T2	1	4	3	0.5	3.1	2.6	0	0	0	0	0	0	0	0
5/9/2024 10:26	14802	TREI_T2	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
5/9/2024 10:27	67703	WERN_T2	0	0	0	0	0	0	-0.25	-0.24	1	1	0	900	900	0
5/9/2024 10:27	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/9/2024 10:28	46801	HEPB_T2	2	2	0	1.15	1.05	-0.1	0.59	0.63	0	0	0	0	0	0
5/9/2024 10:28	63304	GREE_T1	0	0	0	0	0	0	-0.19	-1.51	0	1	1	0	1200	1200
5/9/2024 10:31	13503	MCMI_T2	2	5	3	0.45	0.38	-0.07	-0.01	-0.01	0	0	0	0	0	0
5/9/2024 10:33	13503	MCMI_T2	2	5	3	0.45	0.38	-0.07	-0.01	-0.01	0	0	0	0	0	0
5/9/2024 10:34	43201	MVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/9/2024 10:34	43202	MVIL_T2	95	99	4	0.81	0.85	0.04	-0.62	-0.6	0	0	0	0	0	0
5/9/2024 10:35	64101	REFR_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
5/9/2024 10:36	64101	REFR_T1	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
5/9/2024 10:38	17002	RIRO_T2	5	7	2	0.2	0.3	0.1	0.71	0.65	0	0	0	0	0	0
5/9/2024 10:38	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
5/9/2024 10:39	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/9/2024 10:41	62605	ENGL_T1	0	0	0	0	0	0	-1.32	-1.32	0	0	0	0	0	0
5/9/2024 10:41	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 10:43	47001	HUGH_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
5/9/2024 10:44	67703	WERN_T2	0	0	0	0	0	0	-0.24	-0.25	1	1	0	900	900	0
5/9/2024 10:45	47001	HUGH_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
5/9/2024 10:47	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/9/2024 10:47	64802	MONE_T2	0	0	0	0	0	0	0.24	0.27	0	0	0	0	0	0
5/9/2024 10:52	58003	WCAR_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
5/9/2024 10:52	58001	WCAR_T1	2	4	2	0.35	0.6	0.25	0.77	0.78	0	0	0	0	0	0
5/9/2024 10:53	13704	SCHN_T2	1	0	-1	0.1	0	-0.1	-0.26	-0.27	0	0	0	0	0	0
5/9/2024 10:55	67603	WARW_T1	0	0	0	0	0	0	-0.07	-0.13	0	0	0	0	0	0
5/9/2024 10:55	67605	WARW_T1	24	30	6	0.56	0.63	0.07	-1.12	-1.13	0	0	0	0	0	0
5/9/2024 10:57	15001	BLMO_T1	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/9/2024 10:58	46004	BERW_T2	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
5/9/2024 11:00	25404	LAHA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/9/2024 11:00	63403	HONY_T2	0	0	0	0	0	0	-0.15	-0.13	1	1	0	600	600	0
5/9/2024 11:00	63402	HONY_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 11:00	67605	WARW_T1	30	23	-7	0.63	0.58	-0.05	-1.12	-1.13	0	0	0	0	0	0
5/9/2024 11:00	25402	LAHA_T2	2	1	-1	2	4	2	-0.45	-0.51	0	0	0	0	0	0
5/9/2024 11:01	64702	LITI_T2	0	0	0	0	0	0	-0.57	-0.53	0	0	0	0	0	0
5/9/2024 11:01	64904	MILL_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
5/9/2024 11:03	64702	LITI_T2	0	0	0	0	0	0	-1.13	-1.06	0	0	0	0	0	0
5/9/2024 11:04	59002	MIFF_T1	6	6	0	0.67	0.32	-0.35	0	0	0	0	0	0	0	0
5/9/2024 11:04	44601	SALE_T2	0	0	0	0	0	0	1.15	1.24	1	1	0	600	600	0
5/9/2024 11:04	59003	MIFF_T1	0	0	0	0	0	0	0.77	0.96	0	0	0	0	0	0
5/9/2024 11:05	42201	SHEN_T2	0	0	0	0	0	0	0.05	0.05	1	1	0	600	600	0
5/9/2024 11:05	48302	ORWI_T2	2	2	0	0.85	0.65	-0.2	0.08	0.07	0	0	0	0	0	0
5/9/2024 11:06	14603	SWHI_T1	0	1	1	0	0.3	0.3	-1.68	-1.62	2	2	0	1200	1200	0
5/9/2024 11:07	66001	RHEE_T2	0	1	1	0	0	0	-1.29	-0.02	2	1	-1	2100	900	-1200
5/9/2024 11:08	44601	SALE_T2	0	0	0	0	0	0	1.15	1.24	1	1	0	600	600	0
5/9/2024 11:08	67803	WLAN_T1	1	0	-1	0.2	0	-0.2	-0.85	-0.86	0	0	0	0	0	0
5/9/2024 11:08	43301	WATS_T2	1	1	0	0.6	0.6	0	0	0	1	1	0	900	900	0
5/9/2024 11:08	67804	WLAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/9/2024 11:08	66001	RHEE_T2	0	1	1	0	0	0	-0.02	-0.06	2	1	-1	2100	900	-1200
5/9/2024 11:09	67803	WLAN_T1	1	0	-1	0.2	0	-0.2	-1.7	-1.73	0	0	0	0	0	0
5/9/2024 11:09	67804	WLAN_T1	1	0	-1	0.2	0	-0.2	-2.18	-2.2	0	0	0	0	0	0
5/9/2024 11:09	60101	COCA_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
5/9/2024 11:10	67605	WARW_T1	30	23	-7	0.63	0.58	-0.05	-1.13	-1.13	0	0	0	0	0	0
5/9/2024 11:11	67801	WLAN_T1	0	0	0	0	0	0	0.16	0.2	0	0	0	0	0	0
5/9/2024 11:11	67804	WLAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/9/2024 11:11	67803	WLAN_T1	1	0	-1	0.2	0	-0.2	-0.85	-0.86	0	0	0	0	0	0
5/9/2024 11:11	67805	WLAN_T1	0	0	0	0	0	0	-1.59	-1.64	0	0	0	0	0	0
5/9/2024 11:11	51101	CARL_T1	0	0	0	0	0	0	-1.08	-1.02	1	1	0	600	600	0
5/9/2024 11:12	60101	COCA_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
5/9/2024 11:12	67803	WLAN_T1	1	0	-1	0.2	0	-0.2	-1.7	-1.73	0	0	0	0	0	0
5/9/2024 11:12	67804	WLAN_T1	1	0	-1	0.2	0	-0.2	-1.09	-1.1	0	0	0	0	0	0
5/9/2024 11:12	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 11:12	40101	HUNT_T2	0	0	0	0	0	0	-0.26	-0.22	0	0	0	0	0	0
5/9/2024 11:13	67804	WLAN_T1	1	0	-1	0.2	0	-0.2	-2.18	-2.2	0	0	0	0	0	0
5/9/2024 11:13	45602	WOOL_T1	2	2	0	0.25	0.4	0.15	0.49	0.48	0	0	0	0	0	0
5/9/2024 11:13	47401	PENS_T1	0	0	0	0	0	0	0.99	0.97	0	0	0	0	0	0
5/9/2024 11:13	47403	PENS_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
5/9/2024 11:13	11405	FARM_T1	0	0	0	0	0	0	-0.95	-0.96	1	1	0	1200	1200	0
5/9/2024 11:13	67803	WLAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/9/2024 11:13	67802	WLAN_T1	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
5/9/2024 11:14	67804	WLAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/9/2024 11:14	67703	WERN_T2	0	0	0	0	0	0	-0.24	-0.25	1	1	0	900	900	0
5/9/2024 11:14	67803	WLAN_T1	1	0	-1	0.2	0	-0.2	-0.85	-0.86	0	0	0	0	0	0
5/9/2024 11:14	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/9/2024 11:14	46801	HEPB_T2	2	2	0	1.1	1.1	0	0.63	0.6	0	0	0	0	0	0
5/9/2024 11:15	67703	WERN_T2	0	0	0	0	0	0	-0.24	-0.25	1	1	0	900	900	0
5/9/2024 11:16	41801	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 11:17	60605	NCOL_T2	0	0	0	0	0	0	-0.38	-0.36	0	0	0	0	0	0
5/9/2024 11:23	14802	TREI_T2	2	0	-2	0.1	0	-0.1	0.45	0.42	0	0	0	0	0	0
5/9/2024 11:23	54001	SDLE_T1	12	199	187	1.3	0.27	-1.03	0	0	0	0	0	0	0	0
5/9/2024 11:23	14801	TREI_T2	2	4	2	0.1	0.43	0.33	0	0	0	0	0	0	0	0
5/9/2024 11:23	23001	SAJO_T1	0	0	0	0	0	0	0.13	0.06	0	0	0	0	0	0
5/9/2024 11:24	10805	CHHI_T2	1	2	1	8.7	8.8	0.1	-0.59	-0.5	1	1	0	600	600	0
5/9/2024 11:24	54001	SDLE_T1	12	199	187	1.3	0.27	-1.03	0	0	0	0	0	0	0	0
5/9/2024 11:25	54001	SDLE_T1	12	199	187	1.3	0.27	-1.03	0	0	0	0	0	0	0	0
5/9/2024 11:27	54001	SDLE_T1	12	199	187	1.3	0.27	-1.03	0	0	0	0	0	0	0	0
5/9/2024 11:29	40802	EXCH_T2	0	0	0	0	0	0	-1.12	-1.02	0	0	0	0	0	0
5/9/2024 11:30	10805	CHHI_T2	1	13	12	8.8	4.65	-4.15	-0.59	-0.5	1	1	0	600	600	0
5/9/2024 11:30	54001	SDLE_T1	136	234	98	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
5/9/2024 11:34	66503	SMAN_T2	0	0	0	0	0	0	0.46	0.42	0	0	0	0	0	0
5/9/2024 11:34	46302	ROHR_T1	4	5	1	2.33	2.06	-0.27	0	0	0	0	0	0	0	0
5/9/2024 11:34	46301	ROHR_T1	22	55	33	0.28	0.17	-0.11	0.17	0.18	0	0	0	0	0	0
5/9/2024 11:35	59201	THOM_T1	11	17	6	0.22	0.41	0.19	0	0	0	0	0	0	0	0
5/9/2024 11:35	59202	THOM_T1	35	194	159	0.22	0.23	0.01	0	0	0	0	0	0	0	0
5/9/2024 11:35	46302	ROHR_T1	4	5	1	2.33	2.06	-0.27	0.14	0.1	0	0	0	0	0	0
5/9/2024 11:35	46301	ROHR_T1	22	55	33	0.28	0.17	-0.11	0	0	0	0	0	0	0	0
5/9/2024 11:36	46302	ROHR_T1	4	5	1	2.33	2.06	-0.27	0.14	0.1	0	0	0	0	0	0
5/9/2024 11:36	46301	ROHR_T1	22	55	33	0.28	0.17	-0.11	0	0	0	0	0	0	0	0
5/9/2024 11:36	59202	THOM_T1	35	194	159	0.22	0.23	0.01	0	0	0	0	0	0	0	0
5/9/2024 11:36	59201	THOM_T1	11	17	6	0.22	0.41	0.19	0	0	0	0	0	0	0	0
5/9/2024 11:37	46302	ROHR_T1	4	5	1	2.33	2.06	-0.27	0	0	0	0	0	0	0	0
5/9/2024 11:37	46301	ROHR_T1	22	55	33	0.28	0.17	-0.11	0.17	0.18	0	0	0	0	0	0
5/9/2024 11:38	46301	ROHR_T1	22	55	33	0.28	0.17	-0.11	0.17	0.18	0	0	0	0	0	0
5/9/2024 11:38	46302	ROHR_T1	4	5	1	2.33	2.06	-0.27	0	0	0	0	0	0	0	0
5/9/2024 11:39	14402	SSLA_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/9/2024 11:39	14404	SSLA_T1	2	2	0	2.85	2.95	0.1	0.04	0.02	0	0	0	0	0	0
5/9/2024 11:48	12801	MICK_T1	0	0	0	0	0	0	0.06	0.11	1	1	0	600	600	0
5/9/2024 11:48	12807	MICK_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/9/2024 11:49	15603	NSTR_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
5/9/2024 11:49	13503	MCMI_T2	0	0	0	0	0	0	-0.04	-0.01	0	0	0	0	0	0
5/9/2024 11:49	15601	NSTR_T2	3	3	0	0.77	0.63	-0.14	0	0	0	0	0	0	0	0
5/9/2024 11:50	49804	UNIV_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/9/2024 11:50	49803	UNIV_T1	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
5/9/2024 11:50	14603	SWHI_T1	0	0	0	0	0	0	-1.68	-1.64	2	2	0	1200	1200	0
5/9/2024 11:53	67605	WARW_T1	27	29	2	0.61	0.62	0.01	0	0	0	0	0	0	0	0
5/9/2024 11:53	67604	WARW_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
5/9/2024 11:55	15103	UPHA_T2	0	0	0	0	0	0	0.39	0.44	0	0	0	0	0	0
5/9/2024 11:55	59102	WALK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/9/2024 11:55	67605	WARW_T1	27	29	2	0.61	0.62	0.01	-1.09	-1.1	0	0	0	0	0	0
5/9/2024 11:55	20403	ASHF_T2	37	62	25	0.27	0.28	0.01	0	0.01	0	0	0	0	0	0
5/9/2024 11:55	59101	WALK_T2	0	0	0	0	0	0	2.02	2.09	0	0	0	0	0	0
5/9/2024 11:55	20401	ASHF_T2	8	5	-3	0.45	0.36	-0.09	-0.19	-0.22	0	0	0	0	0	0
5/9/2024 12:00	67605	WARW_T1	26	27	1	0.63	0.64	0.01	-1.09	-1.1	0	0	0	0	0	0
5/9/2024 12:00	47802	MOCA_T2	1	1	0	0.3	0.4	0.1	-0.99	-0.99	0	0	0	0	0	0
5/9/2024 12:02	28703	HAML_T2	3	3	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/9/2024 12:02	28704	HAML_T2	1	1	0	1	0.9	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/9/2024 12:05	47802	MOCA_T2	1	1	0	0.3	0.4	0.1	-0.99	-0.99	0	0	0	0	0	0
5/9/2024 12:05	58402	MORO_T1	0	0	0	0	0	0	-0.37	-0.34	2	2	0	1500	1500	0
5/9/2024 12:06	67201	TEHI_T1	0	0	0	0	0	0	0.26	-0.13	1	1	0	900	900	0
5/9/2024 12:06	67002	STHI_T2	0	0	0	0	0	0	1.61	1.54	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/9/2024 12:07	67002	STHI_T2	0	0	0	0	0	0	0.81	0.77	0	0	0	0	0	0
5/9/2024 12:08	20403	ASHF_T2	41	70	29	0.25	0.3	0.05	0.01	-0.03	0	0	0	0	0	0
5/9/2024 12:08	20401	ASHF_T2	4	8	4	0.38	0.4	0.02	0	0	0	0	0	0	0	0
5/9/2024 12:09	67804	WLAN_T1	0	1	1	0	0.1	0.1	-1.06	-1.06	0	0	0	0	0	0
5/9/2024 12:11	29402	BELT_T1	1	1	0	8	8.2	0.2	0	0	0	0	0	0	0	0
5/9/2024 12:11	10805	OHHI_T2	13	10	-3	1.59	8.6	7.01	-0.53	-0.61	1	1	0	600	600	0
5/9/2024 12:11	67002	STHI_T2	0	0	0	0	0	0	0.77	0.8	0	0	0	0	0	0
5/9/2024 12:15	28403	HART_T2	0	0	0	0	0	0	-1.08	-1.1	1	1	0	900	900	0
5/9/2024 12:15	53901	HALI_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
5/9/2024 12:15	53903	HALI_T2	3	3	0	1.23	1.23	0	-0.13	-0.14	0	0	0	0	0	0
5/9/2024 12:15	53902	HALI_T2	1	3	2	5.6	2	-3.6	0	0	0	0	0	0	0	0
5/9/2024 12:16	42902	MIDD_T2	0	0	0	0	0	0	-0.59	-0.56	1	1	0	600	600	0
5/9/2024 12:18	16402	MOPO_T1	5	3	-2	0.6	0.7	0.1	-0.03	-0.05	0	0	0	0	0	0
5/9/2024 12:18	64704	LITI_T1	0	0	0	0	0	0	0.06	1.58	2	0	-2	1200	0	-1200
5/9/2024 12:18	16401	MOPO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/9/2024 12:20	67001	STHI_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
5/9/2024 12:22	67001	STHI_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
5/9/2024 12:23	67001	STHI_T2	0	0	0	0	0	0	0.07	0.11	0	0	0	0	0	0
5/9/2024 12:25	54001	SDLE_T1	61	51	-10	0.42	0.49	0.07	0	0	0	0	0	0	0	0
5/9/2024 12:25	67605	WARW_T1	27	25	-2	0.64	0.61	-0.03	-1.12	-1.11	0	0	0	0	0	0
5/9/2024 12:30	45502	DERR_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/9/2024 12:30	67605	WARW_T1	24	23	-1	0.61	0.64	0.03	-1.12	-1.11	0	0	0	0	0	0
5/9/2024 12:30	54001	DERR_T2	1	2	1	0.2	0.15	-0.05	0.6	0.68	2	2	0	1800	1800	0
5/9/2024 12:33	54001	SDLE_T1	50	33	-17	0.49	0.67	0.18	0	0	0	0	0	0	0	0
5/9/2024 12:33	58401	MORO_T1	0	0	0	0	0	0	-1.78	-1.77	2	2	0	1200	1200	0
5/9/2024 12:38	45901	AUBU_T1	0	0	0	0	0	0	1.89	1.9	0	0	0	0	0	0
5/9/2024 12:38	67502	WEWI_T2	0	0	0	0	0	0	-0.26	-0.22	0	0	0	0	0	0
5/9/2024 12:46	59001	MIFF_T1	1	3	2	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
5/9/2024 12:46	59003	MIFF_T1	0	1	1	0	0.5	0.5	1.62	-0.62	0	0	0	0	0	0
5/9/2024 12:46	59002	MIFF_T1	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
5/9/2024 12:47	67605	WARW_T1	23	21	-2	0.64	0.6	-0.04	0	0	0	0	0	0	0	0
5/9/2024 12:47	67604	WARW_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
5/9/2024 12:48	53901	HALI_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
5/9/2024 12:48	40802	EXCH_T2	0	0	0	0	0	0	-0.3	-0.25	0	0	0	0	0	0
5/9/2024 12:48	53903	HALI_T2	3	4	1	1.17	1.08	-0.09	-0.14	-0.17	0	0	0	0	0	0
5/9/2024 12:48	53902	HALI_T2	2	1	-1	2.85	5.8	2.95	0	0	0	0	0	0	0	0
5/9/2024 12:51	42802	SELI_T1	0	0	0	0	0	0	-0.59	-0.58	1	1	0	900	900	0
5/9/2024 12:53	42802	SELI_T1	0	0	0	0	0	0	-0.59	-0.58	1	1	0	900	900	0
5/9/2024 12:54	42802	SELI_T1	0	0	0	0	0	0	-0.58	-0.57	1	1	0	900	900	0
5/9/2024 12:58	11303	EMMA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/9/2024 12:58	11301	EMMA_T1	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
5/9/2024 12:59	23203	HIRU_T2	0	0	0	0	0	0	0.06	0.11	0	0	0	0	0	0
5/9/2024 12:59	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 12:59	29402	BELT_T1	1	1	0	8.3	8.5	0.2	0	0	0	0	0	0	0	0
5/9/2024 12:59	10805	OHHI_T2	1	0	-1	8.7	8.7	0	-0.73	-0.71	1	1	0	600	600	0
5/9/2024 13:00	11303	EMMA_T1	0	0	0	0	0	0	-1.61	-1.6	0	0	0	0	0	0
5/9/2024 13:02	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
5/9/2024 13:09	59302	MCAL_T1	0	0	0	0	0	0	0.03	0	1	1	0	600	600	0
5/9/2024 13:09	59301	MCAL_T1	2	3	1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
5/9/2024 13:12	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/9/2024 13:17	60501	NMAN_T2	3	3	0	4.97	4.93	-0.04	0	0	0	0	0	0	0	0
5/9/2024 13:17	60502	NMAN_T2	0	0	0	0	0	0	-0.01	-0.06	0	0	0	0	0	0
5/9/2024 13:20	42902	MIDD_T2	0	0	0	0	0	0	-0.76	-0.79	2	2	0	1200	1200	0
5/9/2024 13:24	67505	WEWI_T1	0	0	0	0	0	0	-0.21	-0.12	1	1	0	900	900	0
5/9/2024 13:24	59101	WALK_T2	0	0	0	0	0	0	1.67	2.01	0	0	0	0	0	0
5/9/2024 13:24	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 13:25	67505	WEWI_T1	0	0	0	0	0	0	-0.21	-0.12	1	1	0	900	900	0
5/9/2024 13:26	45402	WBLO_T2	1	2	1	0.4	0.7	0.3	-0.72	-0.73	0	0	0	0	0	0
5/9/2024 13:26	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 13:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 13:28	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 13:35	47802	MOCA_T2	1	2	1	0.3	0.8	0.5	-0.99	-0.9	0	0	0	0	0	0
5/9/2024 13:37	66502	SMAN_T2	0	0	0	0	0	0	0.21	0.28	0	0	0	0	0	0
5/9/2024 13:39	66502	SMAN_T2	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
5/9/2024 13:44	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/9/2024 13:51	23001	SAJO_T1	0	1	1	0	0.1	0.1	0.14	0.14	0	0	0	0	0	0
5/9/2024 13:51	23002	SAJO_T1	1	1	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
5/9/2024 13:52	63304	GREE_T1	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
5/9/2024 13:54	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 13:55	10702	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/9/2024 13:55	10705	CATA_T2	0	1	1	0	0.5	0.5	-0.89	-0.89	1	1	0	900	900	0
5/9/2024 13:56	10702	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/9/2024 13:56	10705	CATA_T2	0	1	1	0	0.5	0.5	-0.89	-0.89	1	1	0	900	900	0
5/9/2024 13:56	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
5/9/2024 13:57	10702	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/9/2024 13:57	10705	CATA_T2	0	1	1	0	0.5	0.5	-2.66	-2.68	3	3	0	2700	2700	0
5/9/2024 13:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 13:59	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 13:59	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
5/9/2024 13:59	41801	GOCI_T2	232	263	31	0.41	0.51	0.1	0	0	0	0	0	0	0	0
5/9/2024 13:59	61704	ELIZ_T2	5	5	0	0.26	0.46	0.2	0	0	0	0	0	0	0	0
5/9/2024 13:59	61702	ELIZ_T2	0	2	2	0	0.2	0.2	-1.95	-2	2	2	0	1500	1500	0
5/9/2024 14:00	41801	GOCI_T2	262	81	-181	0.51	0.28	-0.23	0	0	0	0	0	0	0	0
5/9/2024 14:04	42201	SHEN_T2	2	2	0	0.5	0.45	-0.05	0.08	0.11	1	1	0	600	600	0
5/9/2024 14:05	24801	VALM_T1	1	1	0	0.9	0.1	-0.8	-0.31	-0.29	0	0	0	0	0	0
5/9/2024 14:09	42201	SHEN_T2	2	2	0	0.5	0.45	-0.05	0.11	0.11	1	1	0	600	600	0
5/9/2024 14:12	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/9/2024 14:12	10903	COOP_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/9/2024 14:12	10901	COOP_T2	0	0	0	0	0	0	1.37	1.35	0	0	0	0	0	0
5/9/2024 14:15	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/9/2024 14:16	55002	NEWP_T1	6	6	0	0.88	1.17	0.29	-0.25	-0.25	0	0	0	0	0	0
5/9/2024 14:20	55002	NEWP_T1	6	6	0	0.88	1.17	0.29	-0.25	-0.25	0	0	0	0	0	0
5/9/2024 14:22	26002	WDAM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 14:22	26001	WDAM_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
5/9/2024 14:23	43802	SWIL_T1	0	0	0	0	0	0	-0.14	-0.12	1	1	0	600	600	0
5/9/2024 14:23	43801	SWIL_T1	1	2	1	4.7	2.55	-2.15	0	0	0	0	0	0	0	0
5/9/2024 14:25	65205	PRIN_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
5/9/2024 14:26	67602	WARW_T2	0	0	0	0	0	0	-0.28	-0.22	4	4	0	3000	3000	0
5/9/2024 14:26	67605	WARW_T1	15	26	11	0.74	0.63	-0.11	-1.08	-1.08	0	0	0	0	0	0
5/9/2024 14:27	67605	WARW_T1	15	26	11	0.74	0.63	-0.11	-1.08	-1.08	0	0	0	0	0	0
5/9/2024 14:29	21901	HUMB_T1	0	0	0	0	0	0	-0.95	-0.93	0	0	0	0	0	0
5/9/2024 14:31	67605	WARW_T1	20	27	7	0.67	0.61	-0.06	-1.08	-1.08	0	0	0	0	0	0
5/9/2024 14:34	62102	ELAN_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
5/9/2024 14:35	51702	OBER_T1	2	2	0	3.3	3.75	0.45	-0.37	-0.35	0	0	0	0	0	0
5/9/2024 14:36	42201	SHEN_T2	2	2	0	0.45	0.8	0.35	0.11	0.08	1	1	0	600	600	0
5/9/2024 14:37	51702	OBER_T1	2	2	0	3.3	3.75	0.45	-0.37	-0.35	0	0	0	0	0	0
5/9/2024 14:38	45902	AUBU_T1	0	0	0	0	0	0	-0.72	-0.7	1	1	0	600	600	0
5/9/2024 14:39	15702	TANN_T2	0	0	0	0	0	0	1.02	0.97	0	0	0	0	0	0
5/9/2024 14:39	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
5/9/2024 14:40	45902	AUBU_T1	0	0	0	0	0	0	-0.72	-0.7	1	1	0	600	600	0
5/9/2024 14:41	67605	WARW_T1	20	27	7	0.67	0.61	-0.06	-1.08	-1.1	0	0	0	0	0	0
5/9/2024 14:44	45902	AUBU_T1	0	0	0	0	0	0	-0.72	-0.7	1	1	0	600	600	0
5/9/2024 14:44	28403	HART_T2	1	0	-1	0.1	0.1	0	-0.84	-0.85	1	1	0	900	900	0
5/9/2024 14:45	45902	AUBU_T1	0	0	0	0	0	0	-0.72	-0.7	1	1	0	600	600	0
5/9/2024 14:46	67605	WARW_T1	26	27	1	0.63	0.6	-0.03	-1.08	-1.1	0	0	0	0	0	0
5/9/2024 14:53	66501	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/9/2024 14:53	66502	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/9/2024 14:53	66505	SMAN_T2	0	0	0	0	0	0	0.6	0.51	2	2	0	1100	1100	0
5/9/2024 14:54	66502	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/9/2024 14:54	66505	SMAN_T2	0	0	0	0	0	0	0.6	0.51	2	2	0	1100	1100	0
5/9/2024 14:54	66501	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/9/2024 14:56	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 14:57	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/9/2024 14:59	61801	EELI_T2	0	1	1	0	0.4	0.4	-0.64	-0.65	1	1	0	600	600	0
5/9/2024 15:00	64702	LITI_T2	0	0	0	0	0	0	-0.61	-0.92	0	0	0	0	0	0
5/9/2024 15:00	41502	FAIR_T2	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
5/9/2024 15:02	64702	LITI_T2	0	0	0	0	0	0	-0.31	-0.46	0	0	0	0	0	0
5/9/2024 15:04	57203	ROSS_T1	0	0	0	0	0	0	-0.32	-0.3	0	0	0	0	0	0
5/9/2024 15:06	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 15:07	66502	SMAN_T2	0	0	0	0	0	0	0.47	0.4	0	0	0	0	0	0
5/9/2024 15:07	57205	ROSS_T1	0	0	0	0	0	0	-1.67	-1.71	2	2	0	1800	1800	0
5/9/2024 15:08	57203	ROSS_T1	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
5/9/2024 15:09	66502	SMAN_T2	0	0	0	0	0	0	0.2	0.15	0	0	0	0	0	0
5/9/2024 15:10	11401	FARM_T1	0	0	0	0	0	0	0.63	0.7	0	0	0	0	0	0
5/9/2024 15:10	43703	WILL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 15:10	43704	WILL_T1	1	1	0	1.6	2	0.4	0	0	0	0	0	0	0	0
5/9/2024 15:10	66502	SMAN_T2	0	0	0	0	0	0	0.4	0.3	0	0	0	0	0	0
5/9/2024 15:10	43705	WILL_T1	2	2	0	1.3	1.45	0.15	0	0	0	0	0	0	0	0
5/9/2024 15:10	43701	WILL_T1	0	1	1	0	0.1	0.1	0.3	0.22	0	0	0	0	0	0
5/9/2024 15:10	15702	TANN_T2	0	0	0	0	0	0	1.11	1.14	0	0	0	0	0	0
5/9/2024 15:10	15703	TANN_T2	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
5/9/2024 15:11	66502	SMAN_T2	0	0	0	0	0	0	0.4	0.3	0	0	0	0	0	0
5/9/2024 15:13	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
5/9/2024 15:14	21901	HUMB_T1	0	0	0	0	0	0	-0.93	-0.89	0	0	0	0	0	0
5/9/2024 15:16	62105	ELAN_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
5/9/2024 15:22	24801	VALM_T1	0	0	0	0	0	0	-0.21	-0.3	0	0	0	0	0	0
5/9/2024 15:25	60902	DONG_T2	0	0	0	0	0	0	0.91	0.96	0	0	0	0	0	0
5/9/2024 15:26	45602	WOOL_T1	17	32	15	0.3	0.31	0.01	0.49	0.49	0	0	0	0	0	0
5/9/2024 15:29	21204	ECAR_T2	1	1	0	0	0.5	0.5	0	0	0	0	0	0	0	0
5/9/2024 15:29	21206	ECAR_T2	1	1	0	8	8.3	0.3	-0.15	-0.22	0	0	0	0	0	0
5/9/2024 15:30	51402	LYKE_T1	0	0	0	0	0	0	-1.94	-1.39	2	1	-1	1200	600	-600
5/9/2024 15:30	21206	ECAR_T2	1	1	0	8.2	8.5	0.3	-0.15	-0.22	0	0	0	0	0	0
5/9/2024 15:30	21204	ECAR_T2	1	1	0	0	0.5	0.5	0	0	0	0	0	0	0	0
5/9/2024 15:30	51401	LYKE_T1	0	0	0	0	0	0	0.32	0.27	0	0	0	0	0	0
5/9/2024 15:31	46802	HEPB_T1	1	3	2	0.8	0.6	-0.2	-0.36	-0.35	0	0	0	0	0	0
5/9/2024 15:32	51402	LYKE_T1	0	0	0	0	0	0	-1.94	-1.39	2	1	-1	1200	600	-600
5/9/2024 15:42	22001	BOHE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 15:42	22002	BOHE_T1	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
5/9/2024 15:42	22003	BOHE_T1	1	3	2	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/9/2024 15:50	51004	NHAR_T1	8	13	5	0.95	1.03	0.08	0	0	0	0	0	0	0	0
5/9/2024 15:50	51002	NHAR_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
5/9/2024 15:50	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/9/2024 15:50	51003	NHAR_T1	0	1	1	0	0.1	0.1	-2.98	-3.13	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/9/2024 15:53	24202	PROV_T4	0	0	0	0	0	0	-0.82	-0.79	1	1	0	1200	1200	0
5/9/2024 15:55	44301	BEAV_T2	0	0	0	0	0	0	0.6	0.66	2	2	0	1200	1200	0
5/9/2024 15:57	62602	ENGL_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
5/9/2024 15:57	59101	WALK_T2	0	0	0	0	0	0	1.98	1.8	0	0	0	0	0	0
5/9/2024 15:57	59102	WALK_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/9/2024 15:57	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 15:57	45501	DERR_T2	1	1	0	0.4	0.5	0.1	0.68	0.49	2	2	0	1800	1800	0
5/9/2024 16:00	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/9/2024 16:06	51004	NHAR_T1	12	13	1	1.09	1.05	-0.04	0	0	0	0	0	0	0	0
5/9/2024 16:06	13704	SCHN_T2	0	1	1	0	0.2	0.2	-0.25	-0.28	0	0	0	0	0	0
5/9/2024 16:06	51003	NHAR_T1	0	2	2	0	0.1	0.1	-3.13	-3.16	1	1	0	1200	1200	0
5/9/2024 16:06	51002	NHAR_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
5/9/2024 16:09	45901	AUBU_T1	0	0	0	0	0	0	1.8	1.8	0	0	0	0	0	0
5/9/2024 16:16	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
5/9/2024 16:17	50501	MECH_T1	4	4	0	0.78	0.55	-0.23	0	0	0	0	0	0	0	0
5/9/2024 16:17	50502	MECH_T1	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
5/9/2024 16:17	50506	MECH_T1	0	0	0	0	0	0	-0.15	-0.16	1	1	0	900	900	0
5/9/2024 16:18	50501	MECH_T1	4	4	0	0.78	0.55	-0.23	0	0	0	0	0	0	0	0
5/9/2024 16:18	50506	MECH_T1	0	0	0	0	0	0	-0.15	-0.16	1	1	0	900	900	0
5/9/2024 16:18	50502	MECH_T1	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
5/9/2024 16:39	51109	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 16:39	51107	CARL_T1	0	0	0	0	0	0	-0.12	-0.29	0	0	0	0	0	0
5/9/2024 16:40	60102	COCA_T1	0	0	0	0	0	0	-0.36	-0.4	2	2	0	1200	1200	0
5/9/2024 16:42	63305	GREE_T1	0	0	0	0	0	0	-1.18	-1.16	0	0	0	0	0	0
5/9/2024 16:45	63305	GREE_T1	0	0	0	0	0	0	-1.18	-1.16	0	0	0	0	0	0
5/9/2024 16:53	45601	WOOL_T1	0	9	9	0	0.13	0.13	0	0	0	0	0	0	0	0
5/9/2024 16:53	45602	WOOL_T1	78	78	0	0.25	0.21	-0.04	0.49	0.5	0	0	0	0	0	0
5/9/2024 16:53	55102	WERT_T2	0	0	0	0	0	0	-0.92	-0.88	2	1	-1	1200	600	-600
5/9/2024 16:57	60102	COCA_T1	0	0	0	0	0	0	-0.4	-0.71	2	2	0	1200	1200	0
5/9/2024 16:57	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 16:57	62604	ENGL_T1	0	0	0	0	0	0	-0.74	-0.67	0	0	0	0	0	0
5/9/2024 17:00	12006	HATF_T1	0	0	0	0	0	0	0.29	0.29	1	1	0	1200	1200	0
5/9/2024 17:01	40802	EXCH_T2	2	187	185	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/9/2024 17:01	40801	EXCH_T2	3	6	3	0.33	0.43	0.1	-0.41	-0.39	1	1	0	1200	1200	0
5/9/2024 17:02	46506	LOHA_T1	0	1	1	0	0.7	0.7	-0.41	-0.42	0	0	0	0	0	0
5/9/2024 17:02	46504	LOHA_T1	2	2	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
5/9/2024 17:03	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
5/9/2024 17:03	46504	LOHA_T1	2	2	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
5/9/2024 17:03	46506	LOHA_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/9/2024 17:05	46506	LOHA_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/9/2024 17:05	46504	LOHA_T1	2	2	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
5/9/2024 17:05	46501	LOHA_T1	0	0	0	0	0	0	-0.04	-0.13	1	1	0	1200	1200	0
5/9/2024 17:06	65401	MARI_T1	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
5/9/2024 17:07	45902	AUBU_T1	0	0	0	0	0	0	-0.87	-0.94	1	1	0	600	600	0
5/9/2024 17:08	55101	WERT_T1	0	0	0	0	0	0	-1.37	-1.46	2	2	0	1800	1800	0
5/9/2024 17:08	65401	MARI_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
5/9/2024 17:09	45902	AUBU_T1	0	0	0	0	0	0	-0.94	-0.96	1	1	0	600	600	0
5/9/2024 17:10	55102	WERT_T2	0	0	0	0	0	0	-0.88	-0.24	1	0	-1	600	0	-600
5/9/2024 17:10	45902	AUBU_T1	0	0	0	0	0	0	-0.94	-0.96	1	1	0	600	600	0
5/9/2024 17:12	45902	AUBU_T1	0	0	0	0	0	0	-0.94	-0.96	1	1	0	600	600	0
5/9/2024 17:13	21206	ECAR_T2	1	7	6	8.1	8.1	0	-0.07	0.03	0	0	0	0	0	0
5/9/2024 17:13	24104	EHAZ_T1	0	0	0	0	0	0	-0.96	-0.97	1	1	0	1200	1200	0
5/9/2024 17:13	24105	EHAZ_T1	4	4	0	5.95	5.63	-0.32	0	0	0	0	0	0	0	0
5/9/2024 17:13	24102	EHAZ_T1	3	7	4	0.8	0.58	-0.22	0	0	0	0	0	0	0	0
5/9/2024 17:13	21204	ECAR_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/9/2024 17:14	24102	EHAZ_T1	3	7	4	0.8	0.58	-0.22	0.96	0.84	0	0	0	0	0	0
5/9/2024 17:14	24105	EHAZ_T1	4	4	0	5.95	5.63	-0.32	0	0	0	0	0	0	0	0
5/9/2024 17:17	55101	WERT_T1	0	0	0	0	0	0	-1.37	-1.46	2	2	0	1800	1800	0
5/9/2024 17:18	11801	FRAN_T2	2	0	-2	0.15	0	-0.15	0.23	0.2	0	0	0	0	0	0
5/9/2024 17:19	24204	PROV_T3	1	3	2	5.6	1.9	-3.7	0	0	0	0	0	0	0	0
5/9/2024 17:19	46102	MACI_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
5/9/2024 17:19	24201	PROV_T3	1	1	0	6.9	7	0.1	0	0	0	0	0	0	0	0
5/9/2024 17:19	24205	PROV_T3	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 17:20	56801	BENV_T1	23	26	3	0.99	0.92	-0.07	0	0	0	0	0	0	0	0
5/9/2024 17:20	56803	BENV_T1	176	182	6	0.44	0.44	0	-0.09	-0.09	1	1	0	600	600	0
5/9/2024 17:21	45402	WBLO_T2	2	4	2	1.35	0.78	-0.57	-3.51	-3.48	2	2	0	1800	1800	0
5/9/2024 17:22	13704	SCHN_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
5/9/2024 17:23	45902	AUBU_T1	0	0	0	0	0	0	-0.96	-1.03	1	1	0	600	600	0
5/9/2024 17:25	45902	AUBU_T1	0	0	0	0	0	0	-0.96	-1.03	1	1	0	600	600	0
5/9/2024 17:26	45902	AUBU_T1	0	0	0	0	0	0	-0.96	-1.03	1	1	0	600	600	0
5/9/2024 17:26	46001	BERW_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
5/9/2024 17:27	45902	AUBU_T1	0	0	0	0	0	0	-0.96	-1.03	1	1	0	600	600	0
5/9/2024 17:28	50103	HARR_T3	2	2	0	0.2	0.45	0.25	-0.75	-0.78	1	1	0	1200	1200	0
5/9/2024 17:28	50105	HARR_T3	6	7	1	5.9	5.67	-0.23	0	0	0	0	0	0	0	0
5/9/2024 17:28	45902	AUBU_T1	0	0	0	0	0	0	-0.96	-1.03	1	1	0	600	600	0
5/9/2024 17:28	50201	HARR_T3	2	2	0	5.25	5.2	-0.05	0	0	0	0	0	0	0	0
5/9/2024 17:29	46001	BERW_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
5/9/2024 17:31	46504	LOHA_T1	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/9/2024 17:31	46506	LOHA_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/9/2024 17:31	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
5/9/2024 17:32	59003	MIFF_T1	1	2	1	0.8	0.5	-0.3	0.56	0.59	0	0	0	0	0	0
5/9/2024 17:32	46504	LOHA_T1	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/9/2024 17:32	59002	MIFF_T1	5	3	-2	0.62	0.2	-0.42	0	0	0	0	0	0	0	0
5/9/2024 17:32	45902	AUBU_T1	0	0	0	0	0	0	-0.96	-1.03	1	1	0	600	600	0
5/9/2024 17:32	46503	LOHA_T1	0	0	0	0	0	0	0.63	-0.64	0	0	0	0	0	0
5/9/2024 17:32	46506	LOHA_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/9/2024 17:32	59001	MIFF_T1	13	0	-13	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/9/2024 17:34	13303	ORVI_T1	0	0	0	0	0	0	0.94	0.94	0	0	0	0	0	0
5/9/2024 17:39	45902	AUBU_T1	0	0	0	0	0	0	-1.03	-1.02	1	1	0	600	600	0
5/9/2024 17:40	40504	CRES_T1	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
5/9/2024 17:40	40505	CRES_T1	4	4	0	3.73	4.5	0.77	0	0	0	0	0	0	0	0
5/9/2024 17:41	45902	AUBU_T1	0	0	0	0	0	0	-1.03	-1.02	1	1	0	600	600	0
5/9/2024 17:41	40504	CRES_T1	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
5/9/2024 17:41	10602	BLGL_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/9/2024 17:41	40505	CRES_T1	4	4	0	3.73	4.5	0.77	0	0	0	0	0	0	0	0
5/9/2024 17:41	67503	WEWI_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
5/9/2024 17:44	40802	EXCH_T2	116	183	67	0.15	0.19	0.04	0	0	0	0	0	0	0	0
5/9/2024 17:44	40801	EXCH_T2	4	7	3	0.43	0.35	-0.08	-0.41	-0.43	1	1	0	1200	1200	0
5/9/2024 17:44	45902	AUBU_T1	0	0	0	0	0	0	-1.03	-1.02	1	1	0	600	600	0
5/9/2024 17:46	14201	EALL_T1	0	0	0	0	0	0	0.7	0.72	0	0	0	0	0	0
5/9/2024 17:46	40801	EXCH_T2	6	5	-1	0.4	0.4	0	-0.41	-0.43	1	1	0	1200	1200	0
5/9/2024 17:46	40802	EXCH_T2	141	183	42	0.16	0.19	0.03	0	0	0	0	0	0	0	0
5/9/2024 17:48	46502	LOHA_T1	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
5/9/2024 17:48	46504	LOHA_T1	2	2	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
5/9/2024 17:48	46506	LOHA_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
5/9/2024 17:55	67803	WLAN_T1	0	132	132	0	0.13	0.13	0	0	0	0	0	0	0	0
5/9/2024 17:55	67801	WLAN_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
5/9/2024 17:55	67805	WLAN_T1	76	447	371	0.12	0.33	0.21	-1.33	-1.35	0	0	0	0	0	0
5/9/2024 17:55	67804	WLAN_T1	0	11	11	0	0.11	0.11	0	0	0	0	0	0	0	0
5/9/2024 17:55	67802	WLAN_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/9/2024 17:56	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 17:57	54501	ENOL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/9/2024 17:57	54505	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
5/9/2024 17:57	54503	ENOL_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/9/2024 17:57	54502	ENOL_T2	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
5/9/2024 17:57	29402	BELT_T1	1	1	0	7.9	8.1	0.2	0	0	0	0	0	0	0	0
5/9/2024 17:57	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 18:01	62103	ELAN_T1	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
5/9/2024 18:01	62102	ELAN_T1	0	0	0	0	0	0	0.69	0.7	0	0	0	0	0	0
5/9/2024 18:01	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 18:01	62105	ELAN_T1	0	31	31	0	0.11	0.11	0	0	0	0	0	0	0	0
5/9/2024 18:02	40801	EXCH_T2	5	1	-4	0.4	0.1	-0.3	-0.43	0.85	1	0	-1	1200	0	-1200
5/9/2024 18:02	40802	EXCH_T2	183	0	-183	0.19	0	-0.19	-0.26	-0.28	0	0	0	0	0	0
5/9/2024 18:08	43506	WWIL_T1	1	5	4	2.1	0.54	-1.56	0	0	0	0	0	0	0	0
5/9/2024 18:08	43504	WWIL_T1	15	17	2	0.69	0.75	0.06	0.63	0.68	0	0	0	0	0	0
5/9/2024 18:08	43505	WWIL_T1	1	2	1	2.7	1.45	-1.25	0	0	0	0	0	0	0	0
5/9/2024 18:09	15204	SFAR_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
5/9/2024 18:10	15204	SFAR_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
5/9/2024 18:11	67804	WLAN_T1	0	11	11	0	0.11	0.11	0	0	0	0	0	0	0	0
5/9/2024 18:11	67805	WLAN_T1	213	445	232	0.16	0.33	0.17	-1.35	-1.33	0	0	0	0	0	0
5/9/2024 18:11	67803	WLAN_T1	0	132	132	0	0.13	0.13	0	0	0	0	0	0	0	0
5/9/2024 18:11	67802	WLAN_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/9/2024 18:11	67801	WLAN_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
5/9/2024 18:13	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/9/2024 18:19	46101	MACI_T2	0	0	0	0	0	0	-0.62	-0.62	1	1	0	1200	1200	0
5/9/2024 18:22	23001	SAJO_T1	0	0	0	0	0	0	0.01	0.06	0	0	0	0	0	0
5/9/2024 18:23	23001	SAJO_T1	0	0	0	0	0	0	0.06	0.13	0	0	0	0	0	0
5/9/2024 18:24	13901	SEID_T1	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
5/9/2024 18:28	26703	HEML_T1	0	0	0	0	0	0	-0.95	-0.96	1	1	0	600	600	0
5/9/2024 18:29	24702	FLND_T2	0	0	0	0	0	0	-0.22	-0.26	1	1	0	1200	1200	0
5/9/2024 18:34	59201	THOM_T1	91	90	-1	0.67	0.68	0.01	0	0	0	0	0	0	0	0
5/9/2024 18:34	59202	THOM_T1	713	715	2	0.84	0.82	-0.02	0	0	0	0	0	0	0	0
5/9/2024 18:46	12601	MACA_T1	0	0	0	0	0	0	0.75	0.72	0	0	0	0	0	0
5/9/2024 18:50	48301	ORWI_T1	2	2	0	4.3	4.25	-0.05	0	0	0	0	0	0	0	0
5/9/2024 18:52	48302	ORWI_T2	2	2	0	0.5	0.6	0.1	-0.02	-0.02	0	0	0	0	0	0
5/9/2024 18:58	15001	BLMO_T1	3	3	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/9/2024 19:45	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
5/9/2024 19:45	66505	SMAN_T2	3	3	0	0.37	0.23	-0.14	0	0	0	0	0	0	0	0
5/9/2024 20:06	54201	PENN_T1	125	180	55	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
5/9/2024 20:06	54203	PENN_T1	18	18	0	1.51	1.58	0.07	0.72	0.73	0	0	0	0	0	0
5/9/2024 20:09	54203	PENN_T1	18	18	0	1.51	1.58	0.07	0	0	0	0	0	0	0	0
5/9/2024 20:09	54201	PENN_T1	125	180	55	0.33	0.32	-0.01	-1	-1.01	0	0	0	0	0	0
5/9/2024 20:10	59302	MCAL_T1	2	2	0	1.35	1.4	0.05	0	0	0	0	0	0	0	0
5/9/2024 20:10	59301	MCAL_T1	90	90	0	0.97	0.97	0	-1.18	-1.15	0	0	0	0	0	0
5/9/2024 20:29	45901	AUBU_T1	0	0	0	0	0	0	1.91	1.96	0	0	0	0	0	0
5/9/2024 20:34	43202	MVIL_T2	91	117	26	0.81	0.82	0.01	-0.72	-0.72	0	0	0	0	0	0
5/9/2024 20:34	43201	MVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 20:35	43301	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/9/2024 20:51	67703	WERN_T2	0	0	0	0	0	0	-0.21	-0.22	1	1	0	900	900	0
5/9/2024 20:53	48302	ORWI_T2	2	2	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
5/9/2024 20:54	15001	BLMO_T1	3	3	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/9/2024 20:55	45902	AUBU_T1	0	1	1	0	0.3	0.3	-1.11	-1.08	1	1	0	600	600	0
5/9/2024 20:57	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/9/2024 20:57	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 20:57	43302	WATS_T2	0	4	4	0	0.43	0.43	0	0	0	0	0	0	0	0
5/9/2024 20:59	15001	BLMO_T1	3	3	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/9/2024 21:01	15001	BLMO_T1	3	3	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/9/2024 21:16	66505	SMAN_T2	3	3	0	1.03	0.97	-0.06	0	0	0	0	0	0	0	0
5/9/2024 21:16	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
5/9/2024 21:17	66505	SMAN_T2	3	3	0	1.03	0.97	-0.06	0	0	0	0	0	0	0	0
5/9/2024 21:17	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
5/9/2024 21:18	64704	LITI_T1	0	0	0	0	0	0	0.03	0.36	1	1	0	600	600	0
5/9/2024 21:18	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
5/9/2024 21:18	66505	SMAN_T2	3	3	0	1.03	0.97	-0.06	0	0	0	0	0	0	0	0
5/9/2024 21:19	67703	WERN_T2	0	0	0	0	0	0	-0.24	-0.27	1	1	0	900	900	0
5/9/2024 21:20	60605	NCOL_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
5/9/2024 21:20	64702	LITI_T2	0	0	0	0	0	0	-0.55	-0.52	0	0	0	0	0	0
5/9/2024 21:20	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:20	62606	ENGL_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
5/9/2024 21:20	62604	ENGL_T1	0	0	0	0	0	0	-0.36	-0.28	1	1	0	600	600	0
5/9/2024 21:23	64702	LITI_T2	0	0	0	0	0	0	-1.03	-0.99	0	0	0	0	0	0
5/9/2024 21:23	65401	MARI_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
5/9/2024 21:23	65402	MARI_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/9/2024 21:25	67605	WARW_T1	47	48	1	0.58	0.65	0.07	0	0	0	0	0	0	0	0
5/9/2024 21:25	67603	WARW_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
5/9/2024 21:26	54001	SDLE_T1	19	11	-8	0.65	1.09	0.44	0	0	0	0	0	0	0	0
5/9/2024 21:31	67602	WARW_T2	0	0	0	0	0	0	1.33	1.41	1	1	0	300	300	0
5/9/2024 21:32	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
5/9/2024 21:32	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
5/9/2024 21:32	29402	BELT_T1	1	1	0	7.7	8.3	0.6	0	0	0	0	0	0	0	0
5/9/2024 21:32	67602	WARW_T2	0	0	0	0	0	0	1.33	1.41	1	1	0	300	300	0
5/9/2024 21:33	54001	SDLE_T1	11	15	4	0.98	1.04	0.06	0	0	0	0	0	0	0	0
5/9/2024 21:33	46802	HEPB_T1	1	1	0	0.7	1	0.3	-0.32	-0.33	0	0	0	0	0	0
5/9/2024 21:34	60101	COCA_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
5/9/2024 21:34	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 21:34	67804	WLAN_T1	0	0	0	0	0	0	-1.1	-1.11	0	0	0	0	0	0
5/9/2024 21:34	67605	WARW_T1	34	103	69	0.55	0.43	-0.12	-1.26	-1.28	0	0	0	0	0	0
5/9/2024 21:34	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
5/9/2024 21:34	67805	WLAN_T1	156	335	179	0.16	0.22	0.06	0	0	0	0	0	0	0	0
5/9/2024 21:35	67805	WLAN_T1	156	335	179	0.16	0.22	0.06	-1.47	-1.45	0	0	0	0	0	0
5/9/2024 21:35	60501	NMAN_T2	3	3	0	4.33	5.3	0.97	0	0	0	0	0	0	0	0
5/9/2024 21:35	60502	NMAN_T2	0	0	0	0	0	0	-0.36	-0.42	0	0	0	0	0	0
5/9/2024 21:35	64902	MILL_T2	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
5/9/2024 21:35	67803	WLAN_T1	0	1	1	0	0.1	0.1	-0.87	-0.9	0	0	0	0	0	0
5/9/2024 21:35	64704	LITI_T1	0	0	0	0	0	0	0.36	0.09	1	1	0	600	600	0
5/9/2024 21:35	50105	HARR_T3	7	7	0	5.5	6.1	0.6	0	0	0	0	0	0	0	0
5/9/2024 21:35	67804	WLAN_T1	0	0	0	0	0	0	-1.1	-1.11	0	0	0	0	0	0
5/9/2024 21:35	50201	HARR_T3	1	1	0	8.1	8.8	0.7	0	0	0	0	0	0	0	0
5/9/2024 21:35	50103	HARR_T3	2	0	-2	0.1	0	-0.1	-0.83	-0.81	1	1	0	1200	1200	0
5/9/2024 21:36	67805	WLAN_T1	156	335	179	0.16	0.22	0.06	0	0	0	0	0	0	0	0
5/9/2024 21:36	51002	NHAR_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
5/9/2024 21:36	66503	SMAN_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
5/9/2024 21:36	67804	WLAN_T1	0	0	0	0	0	0	-1.1	-1.11	0	0	0	0	0	0
5/9/2024 21:36	66505	SMAN_T2	3	3	0	0.93	1.2	0.27	0	0	0	0	0	0	0	0
5/9/2024 21:36	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 21:36	14201	EALL_T1	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
5/9/2024 21:36	66502	SMAN_T2	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
5/9/2024 21:36	51004	NHAR_T1	7	12	5	1.06	0.88	-0.18	0	0	0	0	0	0	0	0
5/9/2024 21:36	51003	NHAR_T1	0	0	0	0	0	0	-2.46	-2.44	1	1	0	1200	1200	0
5/9/2024 21:36	67801	WLAN_T1	0	0	0	0	0	0	0.93	0.95	0	0	0	0	0	0
5/9/2024 21:37	66502	SMAN_T2	0	0	0	0	0	0	-0.23	-0.19	0	0	0	0	0	0
5/9/2024 21:37	67001	STHI_T2	115	488	373	0.11	0.22	0.11	0	0	0	0	0	0	0	0
5/9/2024 21:37	51305	WIND_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
5/9/2024 21:37	62605	ENGL_T1	0	0	0	0	0	0	-0.73	-0.77	0	0	0	0	0	0
5/9/2024 21:37	62606	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/9/2024 21:37	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:37	67002	STHI_T2	2	65	63	0.1	0.17	0.07	0.64	0.61	0	0	0	0	0	0
5/9/2024 21:37	67703	WERN_T2	0	0	0	0	0	0	-0.55	-0.5	2	2	0	1800	1800	0
5/9/2024 21:37	64904	MILL_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
5/9/2024 21:37	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
5/9/2024 21:37	66505	SMAN_T2	3	3	0	0.93	1.2	0.27	-0.19	-0.12	2	2	0	1100	1100	0
5/9/2024 21:37	57205	ROSS_T1	0	0	0	0	0	0	-0.99	-1.01	1	1	0	900	900	0
5/9/2024 21:38	21206	ECAR_T2	1	1	0	8.3	8.4	0.1	-0.11	-0.13	0	0	0	0	0	0
5/9/2024 21:38	67505	WEWI_T1	0	0	0	0	0	0	-0.21	-0.25	1	1	0	900	900	0
5/9/2024 21:38	60502	NMAN_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
5/9/2024 21:38	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 21:38	60101	COCA_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
5/9/2024 21:38	67702	WERN_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
5/9/2024 21:38	67802	WLAN_T1	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
5/9/2024 21:38	20401	ASHF_T2	4	2	-2	0.53	0.55	0.02	-0.35	-0.33	0	0	0	0	0	0
5/9/2024 21:38	67605	WARW_T1	34	103	69	0.55	0.43	-0.12	-1.28	-1.28	0	0	0	0	0	0
5/9/2024 21:38	67805	WLAN_T1	156	335	179	0.16	0.22	0.06	0	0	0	0	0	0	0	0
5/9/2024 21:38	67804	WLAN_T1	0	0	0	0	0	0	-1.11	-1.13	0	0	0	0	0	0
5/9/2024 21:38	21204	ECAR_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/9/2024 21:38	60501	NMAN_T2	3	3	0	4.33	5.3	0.97	0	0	0	0	0	0	0	0
5/9/2024 21:39	67002	STHI_T2	2	65	63	0.1	0.17	0.07	1.82	1.82	0	0	0	0	0	0
5/9/2024 21:39	67505	WEWI_T1	0	0	0	0	0	0	-0.21	-0.25	1	1	0	900	900	0
5/9/2024 21:39	62606	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/9/2024 21:39	66502	SMAN_T2	0	0	0	0	0	0	-0.19	-0.02	0	0	0	0	0	0
5/9/2024 21:39	67001	STHI_T2	115	488	373	0.11	0.22	0.11	0.07	0.07	0	0	0	0	0	0
5/9/2024 21:39	67805	WLAN_T1	156	335	179	0.16	0.22	0.06	0	0	0	0	0	0	0	0
5/9/2024 21:39	67803	WLAN_T1	0	1	1	0	0.1	0.1	-1.8	-1.85	0	0	0	0	0	0
5/9/2024 21:39	21206	ECAR_T2	1	1	0	8.3	8.4	0.1	-0.13	-0.12	0	0	0	0	0	0
5/9/2024 21:39	62607	ENGL_T1	1	1	0	0	0	0	-1.13	-1.13	1	1	0	300	300	0
5/9/2024 21:39	66505	SMAN_T2	3	3	0	0.93	1.2	0.27	0	0	0	0	0	0	0	0
5/9/2024 21:39	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:39	51101	CARL_T1	0	0	0	0	0	0	-1.54	-1.51	1	1	0	600	600	0
5/9/2024 21:39	67804	WLAN_T1	0	0	0	0	0	0	-2.22	-2.26	0	0	0	0	0	0
5/9/2024 21:39	51102	CARL_T1	0	55	55	0	0.14	0.14	0	0	0	0	0	0	0	0
5/9/2024 21:39	21204	ECAR_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/9/2024 21:40	60102	COCA_T1	0	0	0	0	0	0	0.46	0.28	2	2	0	1200	1200	0
5/9/2024 21:40	17002	RIRO_T2	32	6	-26	0.12	0.1	-0.02	0.32	0.31	0	0	0	0	0	0
5/9/2024 21:40	67803	WLAN_T1	0	1	1	0	0.1	0.1	-0.9	-0.93	0	0	0	0	0	0
5/9/2024 21:40	67805	WLAN_T1	156	335	179	0.16	0.22	0.06	0	0	0	0	0	0	0	0
5/9/2024 21:41	67604	WARW_T1	0	0	0	0	0	0	1.15	1.11	0	0	0	0	0	0
5/9/2024 21:41	63305	GREE_T1	0	0	0	0	0	0	-1.3	-1.28	0	0	0	0	0	0
5/9/2024 21:41	67605	WARW_T1	34	103	69	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
5/9/2024 21:42	21206	ECAR_T2	1	1	0	8.3	8.4	0.1	-0.13	-0.12	0	0	0	0	0	0
5/9/2024 21:42	67703	WERN_T2	0	0	0	0	0	0	-0.25	-0.27	1	1	0	900	900	0
5/9/2024 21:42	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:42	59201	THOM_T1	121	131	10	0.89	0.92	0.03	0	0	0	0	0	0	0	0
5/9/2024 21:42	62605	ENGL_T1	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
5/9/2024 21:42	59101	WALK_T2	86	88	2	0.45	0.6	0.15	-0.55	-0.54	0	0	0	0	0	0
5/9/2024 21:42	62606	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/9/2024 21:42	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:42	59202	THOM_T1	852	904	52	1.12	1.18	0.06	0	0	0	0	0	0	0	0
5/9/2024 21:42	59102	WALK_T2	163	181	18	0.79	0.79	0	0	0	0	0	0	0	0	0
5/9/2024 21:42	21204	ECAR_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/9/2024 21:43	43506	WWIL_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
5/9/2024 21:43	67502	WEWI_T2	80	169	89	0.17	0.23	0.06	-1.52	-1.55	1	1	0	900	900	0
5/9/2024 21:43	43505	WWIL_T1	1	2	1	2.7	1.45	-1.25	0	0	0	0	0	0	0	0
5/9/2024 21:43	63402	HONY_T2	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
5/9/2024 21:43	62102	ELAN_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
5/9/2024 21:43	56801	BENV_T1	24	66	42	0.91	0.52	-0.39	0	0	0	0	0	0	0	0
5/9/2024 21:43	67001	STHI_T2	115	488	373	0.11	0.22	0.11	0.07	0.07	0	0	0	0	0	0
5/9/2024 21:43	56803	BENV_T1	146	194	48	0.42	0.6	0.18	-0.1	-0.1	1	1	0	600	600	0
5/9/2024 21:43	43504	WWIL_T1	16	17	1	0.75	0.82	0.07	0.52	0.52	0	0	0	0	0	0
5/9/2024 21:43	13901	SEID_T1	0	0	0	0	0	0	0.21	0.37	0	0	0	0	0	0
5/9/2024 21:43	66505	SMAN_T2	3	3	0	0.93	1.2	0.27	-0.12	-0.26	2	2	0	1100	1100	0
5/9/2024 21:43	67702	WERN_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
5/9/2024 21:43	63403	HONY_T2	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
5/9/2024 21:43	67002	STHI_T2	2	65	63	0.1	0.17	0.07	0	0	0	0	0	0	0	0
5/9/2024 21:43	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:44	59201	THOM_T1	121	131	10	0.89	0.92	0.03	0	0	0	0	0	0	0	0
5/9/2024 21:44	43802	SWIL_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
5/9/2024 21:44	67201	TEHI_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
5/9/2024 21:44	22003	BOHE_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
5/9/2024 21:44	63305	GREE_T1	0	0	0	0	0	0	-1.3	-1.28	0	0	0	0	0	0
5/9/2024 21:44	43801	SWIL_T1	71	50	-21	0.3	0.33	0.03	0	0	0	0	0	0	0	0
5/9/2024 21:44	59202	THOM_T1	852	904	52	1.12	1.18	0.06	0	0	0	0	0	0	0	0
5/9/2024 21:44	46301	ROHR_T1	294	348	54	0.74	0.96	0.22	0	0	0	0	0	0	0	0
5/9/2024 21:44	10602	BLGL_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
5/9/2024 21:44	46302	ROHR_T1	161	196	35	0.43	0.73	0.3	0.14	0.15	0	0	0	0	0	0
5/9/2024 21:44	62105	ELAN_T1	0	0	0	0	0	0	0.46	0.41	0	0	0	0	0	0
5/9/2024 21:44	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:44	22002	BOHE_T1	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
5/9/2024 21:44	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:45	42001	MNVL_T2	1	20	19	0.2	0.15	-0.05	0	-0.02	0	0	0	0	0	0
5/9/2024 21:45	24602	VARD_T2	867	930	63	1.16	1.09	-0.07	-1.09	-1.09	0	0	0	0	0	0
5/9/2024 21:45	24603	VARD_T2	80	102	22	0.3	0.31	0.01	0	0	0	0	0	0	0	0
5/9/2024 21:45	60102	COCA_T1	0	0	0	0	0	0	0.46	0.28	2	2	0	1200	1200	0
5/9/2024 21:45	42002	MNVL_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
5/9/2024 21:46	12801	MICK_T1	0	0	0	0	0	0	-0.16	-0.16	1	1	0	600	600	0
5/9/2024 21:46	12802	MICK_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 21:46	12803	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:46	59003	MIFF_T1	1	1	0	1	1	0	0.38	0.55	0	0	0	0	0	0
5/9/2024 21:46	55101	WERT_T1	0	0	0	0	0	0	-0.95	-0.9	1	1	0	900	900	0
5/9/2024 21:46	51702	OBER_T1	2	2	0	2.75	2.85	0.1	-0.51	-0.48	0	0	0	0	0	0
5/9/2024 21:46	23202	HIRU_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
5/9/2024 21:46	12807	MICK_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/9/2024 21:46	46301	ROHR_T1	315	375	60	0.9	1.01	0.11	0.17	0.16	0	0	0	0	0	0
5/9/2024 21:46	59002	MIFF_T1	6	6	0	0.65	0.78	0.13	0	0	0	0	0	0	0	0
5/9/2024 21:46	46302	ROHR_T1	178	215	37	0.5	0.76	0.26	0	0	0	0	0	0	0	0
5/9/2024 21:47	67803	WLAN_T1	0	37	37	0	0.11	0.11	-0.9	-0.93	0	0	0	0	0	0
5/9/2024 21:47	57203	ROSS_T1	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
5/9/2024 21:47	67002	STHI_T2	24	65	41	0.11	0.17	0.06	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/9/2024 21:47	10705	CATA_T2	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
5/9/2024 21:47	67804	WLAN_T1	0	48	48	0	0.13	0.13	0	0	0	0	0	0	0	0
5/9/2024 21:47	65205	PRIN_T1	1	1	0	1.4	1.8	0.4	0	0	0	0	0	0	0	0
5/9/2024 21:47	67805	WLAN_T1	144	502	358	0.15	0.4	0.25	0	0	0	0	0	0	0	0
5/9/2024 21:47	67001	STHI_T2	319	485	166	0.14	0.22	0.08	0.07	0.07	0	0	0	0	0	0
5/9/2024 21:47	67802	WLAN_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
5/9/2024 21:47	10702	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/9/2024 21:47	51402	LYKE_T1	0	0	0	0	0	0	-1.55	-1.56	1	0	-1	600	0	-600
5/9/2024 21:48	14603	SWHI_T1	0	0	0	0	0	0	-1.73	-1.65	2	2	0	1200	1200	0
5/9/2024 21:48	55101	WERT_T1	0	0	0	0	0	0	-0.95	-0.9	1	1	0	900	900	0
5/9/2024 21:48	50501	MECH_T1	4	4	0	1.23	1.75	0.52	0	0	0	0	0	0	0	0
5/9/2024 21:48	59201	THOM_T1	123	130	7	0.88	0.91	0.03	0	0	0	0	0	0	0	0
5/9/2024 21:48	59202	THOM_T1	852	903	51	1.12	1.17	0.05	0	0	0	0	0	0	0	0
5/9/2024 21:48	50502	MECH_T1	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
5/9/2024 21:48	14602	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:48	11405	FARM_T1	1	1	0	4.3	3.9	-0.4	-0.93	-0.97	1	1	0	1200	1200	0
5/9/2024 21:48	50506	MECH_T1	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
5/9/2024 21:48	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/9/2024 21:48	59301	MCAL_T1	87	87	0	0.85	0.84	-0.01	0	0	0	0	0	0	0	0
5/9/2024 21:48	50504	MECH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 21:48	29402	BELT_T1	1	1	0	7.8	8.3	0.5	0	0	0	0	0	0	0	0
5/9/2024 21:48	66001	RHEE_T2	0	0	0	0	0	0	-0.52	-0.54	1	1	0	900	900	0
5/9/2024 21:48	40802	EXCH_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
5/9/2024 21:48	59302	MCAL_T1	2	2	0	1.35	1.3	-0.05	0.32	0.34	0	0	0	0	0	0
5/9/2024 21:49	67802	WLAN_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
5/9/2024 21:49	67703	WERN_T2	0	0	0	0	0	0	-0.25	-0.27	1	1	0	900	900	0
5/9/2024 21:49	67804	WLAN_T1	0	48	48	0	0.13	0.13	0	0	0	0	0	0	0	0
5/9/2024 21:49	67702	WERN_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
5/9/2024 21:49	40802	EXCH_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
5/9/2024 21:49	45602	WOOL_T1	2	2	0	0.45	0.45	0	0.42	0.38	0	0	0	0	0	0
5/9/2024 21:49	67803	WLAN_T1	0	37	37	0	0.11	0.11	-0.9	-0.93	0	0	0	0	0	0
5/9/2024 21:49	45501	DERR_T2	0	0	0	0	0	0	-0.45	-0.46	2	2	0	1800	1800	0
5/9/2024 21:49	67805	WLAN_T1	144	502	358	0.15	0.4	0.25	0	0	0	0	0	0	0	0
5/9/2024 21:50	28703	HAML_T2	3	3	0	1.07	1.03	-0.04	0	0	0	0	0	0	0	0
5/9/2024 21:50	45902	AUBU_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 21:50	45901	AUBU_T1	0	0	0	0	0	0	1.88	1.86	0	0	0	0	0	0
5/9/2024 21:50	62604	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:50	62602	ENGL_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/9/2024 21:50	28704	HAML_T2	1	4	3	1.2	0.43	-0.77	-0.01	-0.01	0	0	0	0	0	0
5/9/2024 21:50	10705	CATA_T2	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
5/9/2024 21:50	10702	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/9/2024 21:50	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:51	41802	GOCI_T2	13	16	3	0.24	0.28	0.04	0	0	0	0	0	0	0	0
5/9/2024 21:51	59002	MIFF_T1	6	6	0	0.65	0.78	0.13	0	0	0	0	0	0	0	0
5/9/2024 21:51	11601	CEAL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:51	41801	GOCI_T2	78	139	61	0.2	0.25	0.05	0	0	0	0	0	0	0	0
5/9/2024 21:51	13303	ORVI_T1	0	0	0	0	0	0	0.76	0.77	0	0	0	0	0	0
5/9/2024 21:51	40801	EXCH_T2	0	0	0	0	0	0	1.64	1.57	0	0	0	0	0	0
5/9/2024 21:51	59003	MIFF_T1	1	1	0	1	1	0	0.75	1.09	0	0	0	0	0	0
5/9/2024 21:52	10903	COOP_T2	1	10	9	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/9/2024 21:52	10901	COOP_T2	0	0	0	0	0	0	0.8	0.77	0	0	0	0	0	0
5/9/2024 21:52	55002	NEWP_T1	5	6	1	1.26	1.18	-0.08	-0.31	-0.3	0	0	0	0	0	0
5/9/2024 21:52	41801	GOCI_T2	78	139	61	0.2	0.25	0.05	0	0	0	0	0	0	0	0
5/9/2024 21:52	45602	WOOL_T1	2	2	0	0.45	0.45	0	0.42	0.38	0	0	0	0	0	0
5/9/2024 21:52	14802	TREI_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
5/9/2024 21:52	41802	GOCI_T2	13	16	3	0.24	0.28	0.04	0	0	0	0	0	0	0	0
5/9/2024 21:53	45902	AUBU_T1	0	2	2	0	0.1	0.1	-2.46	-1.11	2	2	0	1200	1200	0
5/9/2024 21:53	60901	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 21:53	51002	NHAR_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
5/9/2024 21:53	55002	NEWP_T1	5	6	1	1.26	1.18	-0.08	-0.3	-0.32	0	0	0	0	0	0
5/9/2024 21:53	46302	ROHR_T1	178	215	37	0.5	0.76	0.26	0	0	0	0	0	0	0	0
5/9/2024 21:53	60902	DONG_T2	0	1	1	0	0	0	0.56	0.52	0	0	0	0	0	0
5/9/2024 21:53	59101	WALK_T2	85	91	6	0.49	0.58	0.09	-0.54	-0.64	0	0	0	0	0	0
5/9/2024 21:53	59102	WALK_T2	159	179	20	0.77	0.79	0.02	0	0	0	0	0	0	0	0
5/9/2024 21:53	10702	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/9/2024 21:53	14404	SSLA_T1	1	1	0	5.6	5.7	0.1	-0.01	-0.02	0	0	0	0	0	0
5/9/2024 21:53	51004	NHAR_T1	4	12	8	1.6	0.88	-0.72	0	0	0	0	0	0	0	0
5/9/2024 21:53	40801	EXCH_T2	0	0	0	0	0	0	0.79	0.72	0	0	0	0	0	0
5/9/2024 21:53	51003	NHAR_T1	0	0	0	0	0	0	-2.56	-2.64	1	1	0	1200	1200	0
5/9/2024 21:53	10705	CATA_T2	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
5/9/2024 21:53	55102	WERT_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
5/9/2024 21:53	40101	HUNT_T2	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
5/9/2024 21:53	46301	ROHR_T1	315	375	60	0.9	1.01	0.11	0.17	0.16	0	0	0	0	0	0
5/9/2024 21:53	57205	ROSS_T1	0	0	0	0	0	0	-1.02	-1.03	1	1	0	900	900	0
5/9/2024 21:53	51401	LYKE_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
5/9/2024 21:53	47802	MOCA_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
5/9/2024 21:53	46001	BERW_T1	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
5/9/2024 21:54	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:54	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
5/9/2024 21:54	41502	FAIR_T2	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
5/9/2024 21:54	67703	WERN_T2	0	0	0	0	0	0	-0.27	-0.31	1	1	0	900	900	0
5/9/2024 21:54	54502	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
5/9/2024 21:54	45902	AUBU_T1	0	2	2	0	0.1	0.1	-1.23	-0.56	1	1	0	600	600	0
5/9/2024 21:54	54503	ENOL_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/9/2024 21:54	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:54	54501	ENOL_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
5/9/2024 21:54	55102	WERT_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
5/9/2024 21:54	20403	ASHF_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
5/9/2024 21:54	20401	ASHF_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
5/9/2024 21:54	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:54	61801	ELLI_T2	0	0	0	0	0	0	-0.91	-0.3	1	0	-1	600	0	-600
5/9/2024 21:54	12006	HATF_T1	0	0	0	0	0	0	-0.17	-0.19	1	1	0	1200	1200	0
5/9/2024 21:55	43703	WILL_T1	46	32	-14	0.14	0.14	0	0	0	0	0	0	0	0	0
5/9/2024 21:55	43705	WILL_T1	2	2	0	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
5/9/2024 21:55	43704	WILL_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
5/9/2024 21:55	44601	SALE_T2	1	1	0	0.9	1.1	0.2	-0.15	-0.17	0	0	0	0	0	0
5/9/2024 21:55	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:55	46803	HEPB_T2	5	7	2	0.14	0.16	0.02	0	0	0	0	0	0	0	0
5/9/2024 21:55	58401	MORO_T1	0	0	0	0	0	0	-1.28	-1.27	1	1	0	600	600	0
5/9/2024 21:55	24202	PROV_T4	0	0	0	0	0	0	0.24	0.18	0	0	0	0	0	0
5/9/2024 21:55	43701	WILL_T1	1	1	0	0.3	0.3	0	0.05	0.01	0	0	0	0	0	0
5/9/2024 21:55	58402	MORO_T1	0	0	0	0	0	0	-0.43	-0.41	2	2	0	1500	1500	0
5/9/2024 21:55	46801	HEPB_T2	18	17	-1	0.21	0.25	0.04	0.53	0.49	0	0	0	0	0	0
5/9/2024 21:55	59002	MIFF_T1	6	6	0	0.65	0.78	0.13	0	0	0	0	0	0	0	0
5/9/2024 21:55	59003	MIFF_T1	1	1	0	1	1	0	0.55	0.49	0	0	0	0	0	0
5/9/2024 21:56	11801	FRAN_T2	0	1	1	0	0	0	0.08	-0.03	0	0	0	0	0	0
5/9/2024 21:56	41902	REED_T1	0	0	0	0	0	0	1	0.98	0	0	0	0	0	0
5/9/2024 21:56	41901	REED_T1	5	7	2	0.16	0.17	0.01	0	0	0	0	0	0	0	0
5/9/2024 21:56	42201	SHEN_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
5/9/2024 21:57	54001	SDLE_T1	10	15	5	1.17	1.05	-0.12	0	0	0	0	0	0	0	0
5/9/2024 21:57	67805	WLAN_T1	144	502	358	0.15	0.4	0.25	-1.5	-1.53	0	0	0	0	0	0
5/9/2024 21:57	42201	SHEN_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
5/9/2024 21:57	67804	WLAN_T1	0	48	48	0	0.13	0.13	0	0	0	0	0	0	0	0
5/9/2024 21:57	24201	PROV_T3	1	2	1	7.3	3.5	-3.8	-0.21	-0.24	0	0	0	0	0	0
5/9/2024 21:57	67803	WLAN_T1	0	37	37	0	0.11	0.11	0	0	0	0	0	0	0	0
5/9/2024 21:57	67802	WLAN_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
5/9/2024 21:57	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:57	24204	PROV_T3	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
5/9/2024 21:57	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
5/9/2024 21:57	44301	BEAV_T2	0	0	0	0	0	0	1.16	0.74	2	2	0	1200	1200	0
5/9/2024 21:58	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:58	50502	MECH_T1	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
5/9/2024 21:58	41801	GOCI_T2	78	139	61	0.2	0.25	0.05	0	0	0	0	0	0	0	0
5/9/2024 21:58	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
5/9/2024 21:58	40802	EXCH_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
5/9/2024 21:58	41802	GOCI_T2	13	16	3	0.24	0.28	0.04	0	0	0	0	0	0	0	0
5/9/2024 21:58	50506	MECH_T1	0	0	0	0	0	0	-0.15	-0.38	0	0	0	0	0	0
5/9/2024 21:58	46301	ROHR_T1	315	375	60	0.9	1.01	0.11	0.16	0.16	0	0	0	0	0	0
5/9/2024 21:58	10805	CHHI_T2	1	1	0	7.2	7.3	0.1	-1.2	-1.26	1	1	0	600	600	0
5/9/2024 21:58	50504	MECH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 21:58	47401	PENS_T1	0	3	3	0	0.13	0.13	0.79	0.79	0	0	0	0	0	0
5/9/2024 21:58	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:58	57203	ROSS_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
5/9/2024 21:58	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:58	13704	SCHN_T2	0	4	4	0	0.2	0.2	-0.42	-0.43	0	0	0	0	0	0
5/9/2024 21:58	50501	MECH_T1	4	4	0	1.23	1.75	0.52	0	0	0	0	0	0	0	0
5/9/2024 21:58	46302	ROHR_T1	178	215	37	0.5	0.76	0.26	0	0	0	0	0	0	0	0
5/9/2024 21:58	40801	EXCH_T2	0	0	0	0	0	0	0.79	0.72	0	0	0	0	0	0
5/9/2024 21:58	23001	SAJO_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
5/9/2024 21:58	24702	FLND_T2	0	0	0	0	0	0	0.85	0.98	0	0	0	0	0	0
5/9/2024 21:59	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:59	48301	ORWI_T1	2	2	0	5	5.15	0.15	0	0	0	0	0	0	0	0
5/9/2024 21:59	16301	ALPA_T1	70	139	69	0.18	0.18	0	-0.41	-0.45	0	0	0	0	0	0
5/9/2024 21:59	43301	WATS_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/9/2024 21:59	42903	MIDD_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/9/2024 21:59	67804	WLAN_T1	0	48	48	0	0.13	0.13	0	0	0	0	0	0	0	0
5/9/2024 21:59	42902	MIDD_T2	0	0	0	0	0	0	-0.56	-0.55	0	0	0	0	0	0
5/9/2024 21:59	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 21:59	51107	CARL_T1	0	0	0	0	0	0	-0.11	-0.16	0	0	0	0	0	0
5/9/2024 21:59	43302	WATS_T2	4	4	0	0.68	0.83	0.15	0	0	0	0	0	0	0	0
5/9/2024 21:59	67802	WLAN_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
5/9/2024 21:59	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/9/2024 21:59	40802	EXCH_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
5/9/2024 21:59	46101	MACI_T2	0	0	0	0	0	0	-0.65	-0.68	1	1	0	1200	1200	0
5/9/2024 21:59	66001	RHEE_T2	0	0	0	0	0	0	-0.54	-0.53	1	1	0	900	900	0
5/9/2024 21:59	67803	WLAN_T1	0	37	37	0	0.11	0.11	-0.93	-0.91	0	0	0	0	0	0
5/9/2024 21:59	51102	CARL_T1	0	55	55	0	0.14	0.14	0	0	0	0	0	0	0	0
5/9/2024 21:59	67805	WLAN_T1	144	502	358	0.15	0.4	0.25	0	0	0	0	0	0	0	0
5/9/2024 22:00	61702	ELIZ_T2	0	0	0	0	0	0	-0.94	-0.95	1	1	0	300	300	0
5/9/2024 22:00	45902	AUBU_T1	2	0	-2	0.1	0	-0.1	-1.23	-0.56	1	0	-1	600	0	-600
5/9/2024 22:00	47401	PENS_T1	0	3	3	0	0.13	0.13	0.79	0.79	0	0	0	0	0	0
5/9/2024 22:00	47001	HUGH_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
5/9/2024 22:00	45901	AUBU_T1	0	0	0	0	0	0	1.86	1.79	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/9/2024 22:00	67803	WLAN_T1	1	197	196	0.1	0.13	0.03	0	0	0	0	0	0	0	0
5/9/2024 22:00	61704	ELIZ_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/9/2024 22:00	67804	WLAN_T1	0	74	74	0	0.12	0.12	-1.13	-1.1	0	0	0	0	0	0
5/9/2024 22:00	45501	DERB_T2	0	0	0	0	0	0	-0.46	-0.57	2	2	0	1800	1800	0
5/9/2024 22:00	11303	EMMA_T1	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
5/9/2024 22:00	47002	HUGH_T2	11	5	-6	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
5/9/2024 22:00	67805	WLAN_T1	335	526	191	0.22	0.42	0.2	0	0	0	0	0	0	0	0
5/9/2024 22:00	67802	WLAN_T1	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
5/9/2024 22:00	58401	MORO_T1	0	0	0	0	0	0	-1.28	-1.27	1	1	0	600	600	0
5/9/2024 22:01	20401	ASHF_T2	2	1	-1	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
5/9/2024 22:01	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 22:01	26703	HEML_T1	0	0	0	0	0	0	-0.97	-0.98	1	1	0	600	600	0
5/9/2024 22:01	45902	AUBU_T1	2	0	-2	0.1	0	-0.1	-1.23	-0.56	1	0	-1	600	0	-600
5/9/2024 22:01	25404	LAHA_T2	160	487	327	0.15	0.25	0.1	0	0	0	0	0	0	0	0
5/9/2024 22:01	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 22:01	25402	LAHA_T2	1	21	20	1.3	0.18	-1.12	-0.91	-0.89	0	0	0	0	0	0
5/9/2024 22:01	23203	HIRU_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
5/9/2024 22:01	54001	SDLE_T1	15	10	-5	1.03	1.12	0.09	0	0	0	0	0	0	0	0
5/9/2024 22:01	12002	HATF_T1	0	1	1	0	0	0	0.09	0.17	0	0	0	0	0	0
5/9/2024 22:01	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 22:01	16301	ALPA_T1	139	59	-80	0.18	0.15	-0.03	-0.41	-0.45	0	0	0	0	0	0
5/9/2024 22:01	20403	ASHF_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
5/9/2024 22:02	47002	HUGH_T2	11	5	-6	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
5/9/2024 22:02	14801	TREI_T2	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
5/9/2024 22:02	26002	WDAM_T1	4	17	13	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
5/9/2024 22:02	42201	SHEN_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
5/9/2024 22:02	54001	SDLE_T1	15	10	-5	1.03	1.12	0.09	0	0	0	0	0	0	0	0
5/9/2024 22:02	24105	EHAZ_T1	4	4	0	5.78	5.53	-0.25	0	0	0	0	0	0	0	0
5/9/2024 22:02	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.17	0	0	-1	0	0	0
5/9/2024 22:02	47001	HUGH_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
5/9/2024 22:02	40504	CRES_T1	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
5/9/2024 22:02	26001	WDAM_T1	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
5/9/2024 22:02	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 22:02	40505	CRES_T1	3	3	0	5.67	5.87	0.2	0	0	0	0	0	0	0	0
5/9/2024 22:02	24102	EHAZ_T1	0	1	1	0	0	0	0.27	0.26	0	0	0	0	0	0
5/9/2024 22:02	42802	SELI_T1	1	1	0	0.7	0.6	-0.1	-0.99	-0.06	1	0	-1	900	0	-900
5/9/2024 22:02	51402	LYKE_T1	0	0	0	0	0	0	-1.56	-0.9	0	0	0	0	0	0
5/9/2024 22:03	42802	SELI_T1	1	1	0	0.7	0.6	-0.1	-0.99	-0.06	1	0	-1	900	0	-900
5/9/2024 22:03	11301	EMMA_T1	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
5/9/2024 22:03	45902	AUBU_T1	2	0	-2	0.1	0	-0.1	-1.23	-0.56	1	0	-1	600	0	-600
5/9/2024 22:03	10801	CHHI_T1	0	0	0	0	0	0	-1.49	-1.45	2	2	0	1500	1500	0
5/9/2024 22:03	12601	MACA_T1	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
5/9/2024 22:04	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 22:04	64802	MONE_T2	0	1	1	0	0.2	0.2	0.19	0.16	0	0	0	0	0	0
5/9/2024 22:04	41901	REED_T1	7	0	-7	0.17	0	-0.17	0	0	0	0	0	0	0	0
5/9/2024 22:04	51702	OBER_T1	2	2	0	2.85	2.7	-0.15	-0.48	-0.54	0	0	0	0	0	0
5/9/2024 22:04	40504	CRES_T1	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
5/9/2024 22:04	54001	SDLE_T1	15	10	-5	1.03	1.12	0.09	0	0	0	0	0	0	0	0
5/9/2024 22:04	15103	UPHA_T2	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
5/9/2024 22:04	28403	HART_T2	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
5/9/2024 22:04	67502	WEWI_T2	166	0	-166	0.23	0	-0.23	0	0	0	0	0	0	0	0
5/9/2024 22:04	40505	CRES_T1	3	3	0	5.67	5.87	0.2	0	0	0	0	0	0	0	0
5/9/2024 22:04	44601	SALE_T2	1	1	0	1.1	0.4	-0.7	-0.15	-0.17	0	0	0	0	0	0
5/9/2024 22:04	41902	REED_T1	0	0	0	0	0	0	1	0.98	0	0	0	0	0	0
5/9/2024 22:04	21901	HUMB_T1	0	0	0	0	0	0	-0.97	-0.93	0	0	0	0	0	0
5/9/2024 22:04	67503	WEWI_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
5/9/2024 22:05	65401	MARI_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
5/9/2024 22:05	15703	TANN_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
5/9/2024 22:05	42902	MIDD_T2	0	0	0	0	0	0	-1.11	-1.11	0	0	0	0	0	0
5/9/2024 22:05	47401	PENS_T1	0	3	3	0	0.13	0.13	0.79	0.79	0	0	0	0	0	0
5/9/2024 22:05	14401	SSLA_T1	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
5/9/2024 22:05	28403	HART_T2	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
5/9/2024 22:05	23203	HIRU_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
5/9/2024 22:05	42903	MIDD_T2	2	2	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/9/2024 22:05	15702	TANN_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
5/9/2024 22:05	49803	UNIV_T1	13	0	-13	0.11	0	-0.11	-1.18	0.1	0	0	0	0	0	0
5/9/2024 22:05	10805	CHHI_T2	1	1	0	7.3	7.1	-0.2	-1.2	-1.26	1	1	0	600	600	0
5/9/2024 22:05	45902	AUBU_T1	2	0	-2	0.1	0	-0.1	-1.23	-0.56	1	0	-1	600	0	-600
5/9/2024 22:05	45602	WOOL_T1	2	2	0	0.3	0.45	0.15	0.38	0.38	0	0	0	0	0	0
5/9/2024 22:05	49804	UNIV_T1	2	2	0	0.65	0.35	-0.3	0	0	0	0	0	0	0	0
5/9/2024 22:05	14404	SSLA_T1	1	1	0	5.7	4.8	-0.9	0	0	0	0	0	0	0	0
5/9/2024 22:05	16402	MOPO_T1	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
5/9/2024 22:06	46302	ROHR_T1	195	228	33	0.73	0.75	0.02	0.15	0.14	0	0	0	0	0	0
5/9/2024 22:06	46301	ROHR_T1	347	379	32	0.95	1.02	0.07	0	0	0	0	0	0	0	0
5/9/2024 22:06	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/9/2024 22:06	48302	ORWI_T2	2	2	0	1.1	1.2	0.1	-0.14	-0.14	0	0	0	0	0	0
5/9/2024 22:07	46506	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/9/2024 22:07	15001	BLMO_T1	4	4	0	0.58	1.03	0.45	0	0	0	0	0	0	0	0
5/9/2024 22:07	46503	LOHA_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
5/9/2024 22:07	45402	WBLO_T2	3	2	-1	0.77	0.8	0.03	-1.89	-0.92	0	0	0	0	0	0
5/9/2024 22:07	46501	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/9/2024 22:07	46001	BERW_T1	0	0	0	0	0	0	0.52	0.47	0	0	0	0	0	0
5/9/2024 22:07	24102	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 22:07	24104	EHAZ_T1	0	0	0	0	0	0	-1.01	-1.02	1	1	0	1200	1200	0
5/9/2024 22:07	24105	EHAZ_T1	4	4	0	5.78	5.53	-0.25	0	0	0	0	0	0	0	0
5/9/2024 22:07	46504	LOHA_T1	11	2	-9	0.35	1.05	0.7	0	0	0	0	0	0	0	0
5/9/2024 22:08	10801	CHHI_T1	0	0	0	0	0	0	-1.49	-1.45	2	2	0	1500	1500	0
5/9/2024 22:08	23001	SAJO_T1	0	0	0	0	0	0	0.11	0.05	0	0	0	0	0	0
5/9/2024 22:08	46102	MACI_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
5/9/2024 22:08	10805	CHHI_T2	1	1	0	7.3	7.1	-0.2	-1.2	-1.26	1	1	0	600	600	0
5/9/2024 22:09	46504	LOHA_T1	11	2	-9	0.35	1.05	0.7	0	0	0	0	0	0	0	0
5/9/2024 22:09	46501	LOHA_T1	1	0	-1	0.1	0	-0.1	0.52	0.66	0	0	0	0	0	0
5/9/2024 22:09	46506	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/9/2024 22:09	14802	TREI_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
5/9/2024 22:10	46501	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/9/2024 22:10	46506	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/9/2024 22:10	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
5/9/2024 22:10	15703	TANN_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
5/9/2024 22:10	15702	TANN_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
5/9/2024 22:10	46502	LOHA_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
5/9/2024 22:10	46504	LOHA_T1	11	2	-9	0.35	1.05	0.7	0	0	0	0	0	0	0	0
5/9/2024 22:11	45402	WBLO_T2	3	2	-1	0.77	0.8	0.03	-0.92	-0.93	0	0	0	0	0	0
5/9/2024 22:12	46506	LOHA_T1	1	0	-1	0.1	0	-0.1	-0.49	-0.51	0	0	0	0	0	0
5/9/2024 22:12	14603	SWHI_T1	0	0	0	0	0	0	-1.02	-1.08	1	1	0	600	600	0
5/9/2024 22:12	45402	WBLO_T2	3	2	-1	0.77	0.8	0.03	-0.92	-0.93	0	0	0	0	0	0
5/9/2024 22:12	46501	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/9/2024 22:12	46504	LOHA_T1	11	2	-9	0.35	1.05	0.7	0	0	0	0	0	0	0	0
5/9/2024 22:12	13502	MCMI_T1	0	9	9	0	0.17	0.17	0	0	0	0	0	0	0	0
5/9/2024 22:12	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/9/2024 22:15	46504	LOHA_T1	2	1	-1	1.05	0.2	-0.85	0	0	0	0	0	0	0	0
5/9/2024 22:15	13704	SCHN_T2	4	4	0	0.2	0.3	0.1	-0.43	-0.45	0	0	0	0	0	0
5/9/2024 22:15	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
5/9/2024 22:16	13704	SCHN_T2	4	4	0	0.2	0.3	0.1	-0.85	-0.9	0	0	0	0	0	0
5/9/2024 22:17	53903	HALI_T2	2	2	0	1	1.1	0.1	-0.22	-0.24	0	0	0	0	0	0
5/9/2024 22:17	53901	HALI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/9/2024 22:17	53902	HALI_T2	1	1	0	4.6	5.1	0.5	0	0	0	0	0	0	0	0
5/9/2024 22:18	53901	HALI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/9/2024 22:18	53903	HALI_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 22:18	53902	HALI_T2	1	1	0	4.6	5.1	0.5	-0.3	-0.31	0	0	0	0	0	0
5/9/2024 22:21	10705	CATA_T2	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
5/9/2024 22:21	10702	CATA_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
5/9/2024 22:25	54001	SDLE_T1	10	10	0	1.04	1.3	0.26	0	0	0	0	0	0	0	0
5/9/2024 22:29	62102	ELAN_T1	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
5/9/2024 22:48	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2024 23:00	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.17	0	0	0	0	0	0
5/9/2024 23:01	24801	VALM_T1	0	0	0	0	0	0	-0.38	-0.47	0	0	0	0	0	0
5/9/2024 23:09	29402	BELT_T1	1	1	0	8.2	8.5	0.3	0	0	0	0	0	0	0	0
5/9/2024 23:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/9/2024 23:11	47802	MOCA_T2	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
5/9/2024 23:12	24801	VALM_T1	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
5/9/2024 23:38	53901	HALI_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
5/9/2024 23:38	53903	HALI_T2	2	2	0	1.4	1.6	0.2	-0.22	-0.22	0	0	0	0	0	0
5/9/2024 23:38	53902	HALI_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
5/9/2024 23:39	53903	HALI_T2	2	2	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
5/9/2024 23:39	53902	HALI_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
5/9/2024 23:39	53901	HALI_T2	1	1	0	1	1.1	0.1	-1.05	-1.08	0	0	0	0	0	0
5/10/2024 7:39	49804	UNIV_T1	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
5/10/2024 7:55	15001	BLMO_T1	3	3	0	0.63	0.77	0.14	0	0	0	0	0	0	0	0
5/10/2024 8:22	14401	SSLA_T1	1	1	0	0.1	0.1	0	0.41	0.39	0	0	0	0	0	0
5/10/2024 8:22	14402	SSLA_T1	4	6	2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
5/10/2024 8:22	14404	SSLA_T1	2	2	0	3.5	3.55	0.05	0	0	0	0	0	0	0	0
5/10/2024 8:53	43304	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/10/2024 8:53	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 9:11	54503	ENOL_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/10/2024 9:11	54502	ENOL_T2	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
5/10/2024 9:11	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/10/2024 9:36	67503	WEWI_T2	0	0	0	0	0	0	0.41	0.45	0	0	0	0	0	0
5/10/2024 9:36	67703	WERN_T2	0	0	0	0	0	0	-0.39	-0.36	1	1	0	900	900	0
5/10/2024 9:51	64904	MILL_T1	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
5/10/2024 9:52	29402	BELT_T1	1	1	0	8.5	7.7	-0.8	0	0	0	0	0	0	0	0
5/10/2024 9:52	64904	MILL_T1	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
5/10/2024 9:52	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 9:53	57403	SPAN_T1	0	1	1	0	0.1	0.1	-0.04	-0.01	0	0	0	0	0	0
5/10/2024 9:53	64904	MILL_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
5/10/2024 9:53	57401	SPAN_T1	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
5/10/2024 9:57	50107	HARR_T3	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
5/10/2024 9:57	46803	HEPB_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/10/2024 9:57	46801	HEPB_T2	3	3	0	0.67	0.67	0	0.58	0.55	0	0	0	0	0	0
5/10/2024 9:57	50103	HARR_T3	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/10/2024 9:57	50105	HARR_T3	6	6	0	5.67	5.6	-0.07	0	0	0	0	0	0	0	0
5/10/2024 9:57	50201	HARR_T3	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
5/10/2024 9:58	63804	HEMP_T1	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
5/10/2024 9:58	63803	HEMP_T1	0	15	15	0	0.16	0.16	0.11	0.11	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/10/2024 10:00	57106	SPHI_T2	2	2	0	1.15	1.3	0.15	0	0	0	0	0	0	0	0
5/10/2024 10:00	58803	COCO_T1	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
5/10/2024 10:00	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 10:00	12502	MITR_T2	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
5/10/2024 10:00	58003	WCAR_T1	1	1	0	1.2	1.2	0	0.69	0.71	0	0	0	0	0	0
5/10/2024 10:00	65604	QVIL_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
5/10/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.28	-0.24	1	1	0	600	600	0
5/10/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
5/10/2024 10:00	54601	SUMM_T2	3	4	1	0.33	0.35	0.02	-1.89	-1.89	2	2	0	2100	2100	0
5/10/2024 10:00	15104	UPHA_T2	1	0	-1	8.4	0	-8.4	0	0	0	0	0	0	0	0
5/10/2024 10:00	57101	SPHI_T2	6	6	0	0.87	1.02	0.15	0	0	0	0	0	0	0	0
5/10/2024 10:00	42001	MNVL_T2	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
5/10/2024 10:00	45602	WOOL_T1	0	1	1	0	0.1	0.1	0.9	0.92	0	0	0	0	0	0
5/10/2024 10:00	16103	BING_T2	1	1	0	4.8	4.4	-0.4	0	0	0	0	0	0	0	0
5/10/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 10:00	16901	MECK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-0.62	-0.69	1	1	0	900	900	0
5/10/2024 10:00	67804	WLAN_T1	0	0	0	0	0	0	-1.13	-1.12	0	0	0	0	0	0
5/10/2024 10:00	65702	RVIL_T2	0	0	0	0	0	0	-1.05	-1.02	1	1	0	600	600	0
5/10/2024 10:00	40603	PIGR_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
5/10/2024 10:00	62605	ENGL_T1	0	0	0	0	0	0	-0.89	-0.83	0	0	0	0	0	0
5/10/2024 10:00	42002	MNVL_T2	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0	0
5/10/2024 10:00	46203	DANV_T2	0	0	0	0	0	0	-0.84	-0.76	0	0	0	0	0	0
5/10/2024 10:00	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/10/2024 10:00	50103	HARR_T3	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/10/2024 10:00	67605	WARW_T1	17	17	0	0.58	0.66	0.08	0	0	0	0	0	0	0	0
5/10/2024 10:00	54001	SDLE_T1	9	8	-1	1.04	1.18	0.14	0	0	0	0	0	0	0	0
5/10/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
5/10/2024 10:00	65003	NEFF_T2	50	48	-2	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
5/10/2024 10:00	14204	EALL_T2	0	1	1	0	0.1	0.1	-0.32	-0.25	0	0	0	0	0	0
5/10/2024 10:00	51702	OBER_T1	2	2	0	3.1	3	-0.1	-0.52	-0.53	0	0	0	0	0	0
5/10/2024 10:00	60803	BUCK_T1	10	14	4	0.16	0.29	0.13	0	0	0	0	0	0	0	0
5/10/2024 10:00	40505	CRES_T1	3	3	0	4.47	4.87	0.4	0.25	0.27	0	0	0	0	0	0
5/10/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	-0.08	-0.04	0	0	0	0	0	0
5/10/2024 10:00	12807	MICK_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
5/10/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
5/10/2024 10:00	15404	WALL_T1	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
5/10/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
5/10/2024 10:00	53903	HALI_T2	2	2	0	1	1.25	0.25	0	0	0	0	0	0	0	0
5/10/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/10/2024 10:00	64701	LITI_T1	0	0	0	0	0	0	0.32	0.25	0	0	0	0	0	0
5/10/2024 10:00	51004	NHAR_T1	12	13	1	0.99	1.13	0.14	0	0	0	0	0	0	0	0
5/10/2024 10:00	65001	NEFF_T2	224	237	13	0.22	0.27	0.05	-0.7	-0.74	1	1	0	1200	1200	0
5/10/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.28	-0.22	4	4	0	3000	3000	0
5/10/2024 10:00	44505	HAMI_T2	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
5/10/2024 10:00	24701	FLND_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
5/10/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-1.17	-1.1	0	0	0	0	0	0
5/10/2024 10:00	40502	CRES_T2	0	7	7	0	0.16	0.16	0.22	0.23	0	0	0	0	0	0
5/10/2024 10:00	59202	THOM_T1	337	299	-38	0.44	0.38	-0.06	0	0	0	0	0	0	0	0
5/10/2024 10:00	40702	FFLD_T1	2	6	4	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
5/10/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
5/10/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
5/10/2024 10:00	47002	HUGH_T2	0	0	0	0	0	0	-0.52	-0.57	0	0	0	0	0	0
5/10/2024 10:00	62607	ENGL_T1	1	2	1	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	-0.85	-1	1	1	0	600	600	0
5/10/2024 10:00	50201	HARR_T3	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/10/2024 10:00	56801	BENV_T1	24	23	-1	1.09	1.22	0.13	0	0	0	0	0	0	0	0
5/10/2024 10:00	16605	PONO_T1	0	0	0	0	0	0	-0.59	-0.6	1	1	0	1200	1200	0
5/10/2024 10:00	63306	GREE_T1	0	0	0	0	0	0	-1.17	-1.19	0	0	0	0	0	0
5/10/2024 10:00	17101	WTRE_T2	309	329	20	0.2	0.21	0.01	0	0	0	0	0	0	0	0
5/10/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 10:00	53901	HALI_T2	1	1	0	0.3	0.4	0.1	-1.08	-1.07	0	0	0	0	0	0
5/10/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	-1.27	-1.36	2	2	0	1200	1200	0
5/10/2024 10:00	15103	UPHA_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
5/10/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
5/10/2024 10:00	54502	ENOL_T2	1	1	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
5/10/2024 10:00	46301	ROHR_T1	250	226	-24	0.38	0.38	0	0	0	0	0	0	0	0	0
5/10/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-0.91	-0.87	0	0	0	0	0	0
5/10/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-1.18	-1.19	1	1	0	600	600	0
5/10/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
5/10/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-1.42	-1.4	2	2	0	1800	1800	0
5/10/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
5/10/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	1.28	1.31	0	0	0	0	0	0
5/10/2024 10:00	56601	HAMP_T1	0	0	0	0	0	0	-1.98	-1.77	0	0	0	0	0	0
5/10/2024 10:00	40701	FFLD_T1	31	33	2	0.4	0.59	0.19	0	0	0	0	0	0	0	0
5/10/2024 10:00	56803	BENV_T1	344	332	-12	0.61	0.45	-0.16	-0.08	-0.09	1	1	0	600	600	0
5/10/2024 10:00	63304	GREE_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
5/10/2024 10:00	50107	HARR_T3	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
5/10/2024 10:00	10801	CHIH_T1	0	0	0	0	0	0	-0.8	-0.91	1	1	0	900	900	0
5/10/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
5/10/2024 10:00	40601	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
5/10/2024 10:00	51002	NHAR_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/10/2024 10:00	58001	WCAR_T1	4	4	0	1	1	0	0.65	0.59	0	0	0	0	0	0
5/10/2024 10:00	58102	NEKI_T1	1	1	0	0.5	0.4	-0.1	0.08	0.17	0	0	0	0	0	0
5/10/2024 10:00	46302	ROHR_T1	63	53	-10	0.3	0.37	0.07	0.1	0.15	0	0	0	0	0	0
5/10/2024 10:00	67703	WERN_T2	0	0	0	0	0	0	-0.8	-0.72	2	2	0	1800	1800	0
5/10/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	0.1	0.12	1	1	0	600	600	0
5/10/2024 10:00	63401	HONY_T1	0	0	0	0	0	0	0.86	0.9	0	0	0	0	0	0
5/10/2024 10:00	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
5/10/2024 10:00	16101	BING_T2	1	1	0	10	10	0	0.32	0.3	0	0	0	0	0	0
5/10/2024 10:00	11101	EGYP_T1	0	0	0	0	0	0	1.23	1.22	0	0	0	0	0	0
5/10/2024 10:00	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
5/10/2024 10:00	44502	HAMI_T2	1	1	0	2.6	2.7	0.1	-0.97	-0.91	0	0	0	0	0	0
5/10/2024 10:00	40703	FFLD_T1	3	3	0	0.13	0.27	0.14	0.22	0.26	0	0	0	0	0	0
5/10/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
5/10/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.79	-0.8	1	1	0	1200	1200	0
5/10/2024 10:00	50701	SMEC_T1	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
5/10/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.07	1.1	0	0	0	0	0	0
5/10/2024 10:00	42701	AUGU_T1	1	1	0	0.6	0.5	-0.1	0	0	2	2	0	1800	1800	0
5/10/2024 10:00	50105	HARR_T3	6	6	0	5.6	5.72	0.12	0	0	0	0	0	0	0	0
5/10/2024 10:00	59201	THOM_T1	24	20	-4	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
5/10/2024 10:00	12802	MICK_T1	0	0	0	0	0	0	-1.22	-1.24	0	0	0	0	0	0
5/10/2024 10:00	22102	EDEL_T1	0	0	0	0	0	0	-0.5	-0.38	1	1	0	1200	1200	0
5/10/2024 10:00	12505	MITR_T2	0	0	0	0	0	0	0.73	0.66	0	0	0	0	0	0
5/10/2024 10:00	57104	SPHI_T2	1	1	0	7.9	9.6	1.7	-0.47	-0.49	0	0	0	0	0	0
5/10/2024 10:00	42903	MIDD_T2	0	2	2	0	0.2	0.2	-0.84	-1.38	1	1	0	1200	1200	0
5/10/2024 10:00	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/10/2024 10:00	42302	MOWR_T2	0	1	1	0	0	0	-0.43	-0.43	0	0	0	0	0	0
5/10/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	0.15	0.14	2	2	0	1800	1800	0
5/10/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	1.09	1.02	0	0	0	0	0	0
5/10/2024 10:03	64701	LITI_T1	0	0	0	0	0	0	0.32	0.25	0	0	0	0	0	0
5/10/2024 10:06	44201	POIN_T1	0	0	0	0	0	0	-1.33	-1.22	2	2	0	2100	2100	0
5/10/2024 10:06	60502	NMAN_T2	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
5/10/2024 10:06	60501	NMAN_T2	3	6	3	4.17	2.45	-1.72	0	0	0	0	0	0	0	0
5/10/2024 10:07	48302	ORWI_T2	1	2	1	0.2	0.3	0.1	-0.04	-0.03	0	0	0	0	0	0
5/10/2024 10:07	53501	EVIL_T2	2	2	0	0.25	0.45	0.2	-0.11	-0.13	0	0	0	0	0	0
5/10/2024 10:07	59002	MIFF_T1	6	5	-1	0.53	0.16	-0.37	0	0	0	0	0	0	0	0
5/10/2024 10:07	52006	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/10/2024 10:07	45902	AUBU_T1	0	0	0	0	0	0	-0.63	-0.68	1	1	0	600	600	0
5/10/2024 10:07	60801	BUCK_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
5/10/2024 10:07	67001	STHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/10/2024 10:07	59003	MIFF_T1	0	0	0	0	0	0	0.57	0.93	0	0	0	0	0	0
5/10/2024 10:07	52004	LING_T2	0	1	1	0	0.2	0.2	0.24	0.23	0	0	0	0	0	0
5/10/2024 10:07	67002	STHI_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
5/10/2024 10:07	60803	BUCK_T1	10	14	4	0.16	0.29	0.13	0	0	0	0	0	0	0	0
5/10/2024 10:07	40101	HUNT_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
5/10/2024 10:07	67803	WLAN_T1	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
5/10/2024 10:07	61302	EARL_T1	0	0	0	0	0	0	0.39	0.26	2	2	0	1800	1800	0
5/10/2024 10:07	12604	MACA_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
5/10/2024 10:08	40201	BEGA_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/10/2024 10:08	64801	MONE_T2	0	1	1	0	0.2	0.2	0.24	0.24	0	0	0	0	0	0
5/10/2024 10:08	50505	MECH_T1	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
5/10/2024 10:08	67805	WLAN_T1	0	0	0	0	0	0	-1.04	-1.02	0	0	0	0	0	0
5/10/2024 10:08	16102	BING_T2	0	0	0	0	0	0	0.92	1	0	0	0	0	0	0
5/10/2024 10:08	16101	BING_T2	1	1	0	10	10	0	0	0	0	0	0	0	0	0
5/10/2024 10:08	67703	WERN_T2	0	0	0	0	0	0	-0.36	-0.35	1	1	0	900	900	0
5/10/2024 10:08	45702	LIND_T2	1	1	0	0.4	0.6	0.2	-0.45	-0.46	0	0	0	0	0	0
5/10/2024 10:08	24105	EHAZ_T1	4	4	0	6.65	5.85	-0.8	-0.76	-0.78	1	1	0	1200	1200	0
5/10/2024 10:08	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
5/10/2024 10:08	59102	WALK_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
5/10/2024 10:08	54601	SUMM_T2	3	4	1	0.33	0.35	0.02	0	0	0	0	0	0	0	0
5/10/2024 10:08	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/10/2024 10:08	50502	MECH_T1	1	1	0	1.7	2.1	0.4	0	0	0	0	0	0	0	0
5/10/2024 10:08	53501	EVIL_T2	2	2	0	0.25	0.45	0.2	-0.27	-0.22	0	0	0	0	0	0
5/10/2024 10:08	24101	EHAZ_T1	9	0	-9	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/10/2024 10:08	16103	BING_T2	1	1	0	4.8	4.4	-0.4	0	0	0	0	0	0	0	0
5/10/2024 10:08	22405	MORG_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
5/10/2024 10:08	29402	BELT_T1	1	1	0	7.5	8	0.5	0	0	0	0	0	0	0	0
5/10/2024 10:08	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
5/10/2024 10:08	17001	RIRO_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
5/10/2024 10:08	50501	MECH_T1	4	4	0	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
5/10/2024 10:08	25603	ARRO_T1	0	0	0	0	0	0	-0.21	-0.17	0	0	0	0	0	0
5/10/2024 10:08	54602	SUMM_T2	0	0	0	0	0	0	-2.49	-2.51	1	1	0	600	600	0
5/10/2024 10:08	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 10:08	47104	MARL_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
5/10/2024 10:08	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 10:08	27502	WEIS_T2	0	0	0	0	0	0	0.06	-0.06	0	0	0	0	0	0
5/10/2024 10:09	43101	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 10:09	67803	WLAN_T1	0	0	0	0	0	0	-0.92	-0.93	0	0	0	0	0	0
5/10/2024 10:09	43102	SMIL_T2	7	7	0	0.76	0.69	-0.07	0	0	0	0	0	0	0	0
5/10/2024 10:09	43104	SMIL_T2	0	0	0	0	0	0	-0.83	-0.82	1	1	0	300	300	0
5/10/2024 10:09	10805	CHIH_T2	1	1	0	7.9	7.9	0	-0.97	-0.87	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/10/2024 10:09	67801	WLAN_T1	0	0	0	0	0	0	0.93	0.85	0	0	0	0	0	0
5/10/2024 10:09	43105	SMIL_T2	12	15	3	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
5/10/2024 10:09	67703	WERN_T2	0	0	0	0	0	0	-0.36	-0.35	1	1	0	900	900	0
5/10/2024 10:09	11101	EGYP_T1	0	0	0	0	0	0	1.22	1.16	0	0	0	0	0	0
5/10/2024 10:09	67801	WLAN_T1	0	0	0	0	0	0	-1.12	-1.13	0	0	0	0	0	0
5/10/2024 10:09	52503	PROG_T2	0	0	0	0	0	0	-0.7	-0.67	1	1	0	900	900	0
5/10/2024 10:09	43103	SMIL_T2	21	18	-3	1.01	1.04	0.03	0	0	0	0	0	0	0	0
5/10/2024 10:10	61503	EPET_T1	0	0	0	0	0	0	-1.08	-1.05	0	0	0	0	0	0
5/10/2024 10:13	62605	ENGL_T1	0	0	0	0	0	0	-1.66	-1.72	0	0	0	0	0	0
5/10/2024 10:13	62607	ENGL_T1	1	2	1	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 10:13	63402	HONY_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
5/10/2024 10:13	63403	HONY_T2	0	0	0	0	0	0	-0.18	-0.24	1	1	0	600	600	0
5/10/2024 10:14	40502	CRES_T2	0	7	7	0	0.16	0.16	0.23	-0.7	0	0	0	0	0	0
5/10/2024 10:14	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 10:16	46502	LOHA_T1	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
5/10/2024 10:16	46506	LOHA_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/10/2024 10:19	40502	CRES_T2	0	9	9	0	0.14	0.14	0.23	-0.7	0	0	0	0	0	0
5/10/2024 10:19	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 10:19	62601	ENGL_T1	0	0	0	0	0	0	-0.07	-0.18	0	0	0	0	0	0
5/10/2024 10:19	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 10:22	59202	THOM_T1	220	321	101	0.24	0.44	0.2	0	0	0	0	0	0	0	0
5/10/2024 10:22	59201	THOM_T1	15	21	6	0.28	0.4	0.12	0	0	0	0	0	0	0	0
5/10/2024 10:23	59201	THOM_T1	15	21	6	0.28	0.4	0.12	0	0	0	0	0	0	0	0
5/10/2024 10:23	59202	THOM_T1	220	321	101	0.24	0.44	0.2	0	0	0	0	0	0	0	0
5/10/2024 10:24	55102	WERT_T2	0	0	0	0	0	0	-0.74	-0.74	2	2	0	1200	1200	0
5/10/2024 10:28	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
5/10/2024 10:28	53903	HALI_T2	2	2	0	1.25	1.2	-0.05	0	0	0	0	0	0	0	0
5/10/2024 10:28	62602	ENGL_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
5/10/2024 10:28	53901	HALI_T2	1	1	0	0.4	0.5	0.1	-1.07	-1.05	0	0	0	0	0	0
5/10/2024 10:28	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 10:29	46801	HEPB_T2	3	3	0	0.63	0.67	0.04	0.55	0.55	0	0	0	0	0	0
5/10/2024 10:29	62607	ENGL_T1	1	1	0	0	0	0	-0.88	-0.85	0	0	0	0	0	0
5/10/2024 10:29	61801	EELI_T2	0	0	0	0	0	0	-0.96	-0.94	1	1	0	600	600	0
5/10/2024 10:29	65401	MARI_T1	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
5/10/2024 10:29	40802	EXCH_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
5/10/2024 10:29	46803	HEPB_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/10/2024 10:30	40504	CRES_T1	0	0	0	0	0	0	-0.5	-0.55	0	0	0	0	0	0
5/10/2024 10:30	40505	CRES_T1	3	3	0	4.8	5.27	0.47	0	0	0	0	0	0	0	0
5/10/2024 10:33	65401	MARI_T1	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
5/10/2024 10:33	60602	NCOL_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
5/10/2024 10:33	60605	NCOL_T2	0	0	0	0	0	0	-0.48	-0.44	0	0	0	0	0	0
5/10/2024 10:34	40504	CRES_T1	0	0	0	0	0	0	-0.5	-0.55	0	0	0	0	0	0
5/10/2024 10:34	65401	MARI_T1	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
5/10/2024 10:34	13704	SOHN_T2	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
5/10/2024 10:34	60605	NCOL_T2	0	0	0	0	0	0	-0.48	-0.44	0	0	0	0	0	0
5/10/2024 10:34	60501	NMAN_T2	6	3	-3	2.45	5.27	2.82	0	0	0	0	0	0	0	0
5/10/2024 10:34	40505	CRES_T1	3	3	0	4.8	5.27	0.47	0	0	0	0	0	0	0	0
5/10/2024 10:34	60602	NCOL_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
5/10/2024 10:34	60502	NMAN_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
5/10/2024 10:35	43801	SWIL_T1	5	4	-1	1.08	1.4	0.32	0	0	0	0	0	0	0	0
5/10/2024 10:35	43802	SWIL_T1	0	0	0	0	0	0	-0.19	-0.18	1	1	0	600	600	0
5/10/2024 10:36	64902	MILL_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
5/10/2024 10:36	60602	NCOL_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
5/10/2024 10:36	60605	NCOL_T2	0	0	0	0	0	0	-0.48	-0.44	0	0	0	0	0	0
5/10/2024 10:38	64904	MILL_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
5/10/2024 10:38	44301	BEAV_T2	0	0	0	0	0	0	0.03	0.14	2	2	0	1500	1500	0
5/10/2024 10:39	64904	MILL_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
5/10/2024 10:41	62605	ENGL_T1	0	1	1	0	0.1	0.1	-0.87	-0.83	0	0	0	0	0	0
5/10/2024 10:41	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 10:52	58001	WCAR_T1	3	3	0	0.67	0.67	0	0	0	0	0	0	0	0	0
5/10/2024 10:52	58003	WCAR_T1	1	1	0	1.3	1.3	0	0.71	0.71	0	0	0	0	0	0
5/10/2024 10:55	58003	WCAR_T1	1	1	0	1.3	1.3	0	0.71	0.71	0	0	0	0	0	0
5/10/2024 10:55	43802	SWIL_T1	0	0	0	0	0	0	-0.18	-0.19	1	1	0	600	600	0
5/10/2024 10:55	43801	SWIL_T1	4	5	1	1.38	1.12	-0.26	0	0	0	0	0	0	0	0
5/10/2024 10:55	58001	WCAR_T1	3	3	0	0.67	0.67	0	0	0	0	0	0	0	0	0
5/10/2024 11:07	63402	HONY_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
5/10/2024 11:07	63403	HONY_T2	0	0	0	0	0	0	-0.15	-0.15	1	1	0	600	600	0
5/10/2024 11:07	67504	WEWI_T1	0	0	0	0	0	0	0.65	0.69	0	0	0	0	0	0
5/10/2024 11:07	67501	WEWI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 11:09	45602	WOOL_T1	1	0	-1	0.1	0	-0.1	0.47	0.46	0	0	0	0	0	0
5/10/2024 11:11	51108	CARL_T1	0	0	0	0	0	0	-0.77	-0.79	1	1	0	600	600	0
5/10/2024 11:11	42201	SHEN_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
5/10/2024 11:11	51104	CARL_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/10/2024 11:12	45602	WOOL_T1	1	0	-1	0.1	0	-0.1	0.47	0.46	0	0	0	0	0	0
5/10/2024 11:26	40801	EXCH_T2	0	0	0	0	0	0	-0.51	-0.54	1	1	0	1200	1200	0
5/10/2024 11:28	63305	GREE_T1	0	0	0	0	0	0	-1.11	-1.14	0	0	0	0	0	0
5/10/2024 11:31	50502	MECH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
5/10/2024 11:31	50506	MECH_T1	0	0	0	0	0	0	-0.3	-0.24	2	2	0	1800	1800	0
5/10/2024 11:31	50501	MECH_T1	4	4	0	0.93	0.8	-0.13	0	0	0	0	0	0	0	0
5/10/2024 11:31	63305	GREE_T1	0	0	0	0	0	0	-1.11	-1.14	0	0	0	0	0	0
5/10/2024 11:32	12601	MACA_T1	0	0	0	0	0	0	0.77	0.76	0	0	0	0	0	0
5/10/2024 11:32	23403	HONE_T1	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
5/10/2024 11:33	64801	MONE_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/10/2024 11:33	60605	NCOL_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
5/10/2024 11:33	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 11:33	64802	MONE_T2	0	0	0	0	0	0	0.25	0.14	0	0	0	0	0	0
5/10/2024 11:33	40502	CRES_T2	0	10	10	0	0.19	0.19	-0.74	-0.73	0	0	0	0	0	0
5/10/2024 11:34	13302	ORVI_T2	0	1	1	0	0.2	0.2	1.14	1.29	0	0	0	0	0	0
5/10/2024 11:34	60605	NCOL_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
5/10/2024 11:35	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 11:35	40502	CRES_T2	0	10	10	0	0.19	0.19	-0.74	-0.73	0	0	0	0	0	0
5/10/2024 11:37	64904	MILL_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
5/10/2024 11:43	40802	EXCH_T2	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
5/10/2024 11:43	10801	CHHI_T1	0	0	0	0	0	0	-0.78	-0.74	1	1	0	900	900	0
5/10/2024 11:48	55102	WERT_T2	0	0	0	0	0	0	-0.91	-0.87	1	1	0	600	600	0
5/10/2024 11:57	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 11:57	63801	HEMP_T1	0	0	0	0	0	0	0.92	0.11	0	0	0	0	0	0
5/10/2024 11:57	63804	HEMP_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
5/10/2024 11:59	64701	LITI_T1	0	0	0	0	0	0	0.27	0.22	0	0	0	0	0	0
5/10/2024 12:04	65401	MARI_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
5/10/2024 12:09	67703	WERN_T2	0	0	0	0	0	0	-0.66	-0.66	2	2	0	1800	1800	0
5/10/2024 12:12	67703	WERN_T2	0	0	0	0	0	0	-0.33	-0.33	1	1	0	900	900	0
5/10/2024 12:13	63803	HEMP_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
5/10/2024 12:13	63804	HEMP_T1	1	1	0	6.7	5.9	-0.8	0	0	0	0	0	0	0	0
5/10/2024 12:13	41801	GOCI_T2	0	48	48	0	0.17	0.17	0	0	0	0	0	0	0	0
5/10/2024 12:14	11801	FRAN_T2	0	1	1	0	0.1	0.1	0.1	0.12	0	0	0	0	0	0
5/10/2024 12:14	61501	EPET_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
5/10/2024 12:14	11803	FRAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 12:14	64503	LAVI_T1	0	0	0	0	0	0	-0.47	-0.45	1	1	0	1200	1200	0
5/10/2024 12:14	61506	EPET_T2	0	0	0	0	0	0	-1	-1.02	1	1	0	900	900	0
5/10/2024 12:17	64503	LAVI_T1	0	0	0	0	0	0	-0.94	-0.89	2	2	0	2400	2400	0
5/10/2024 12:18	55003	NEWP_T2	14	14	0	1	1.05	0.05	-0.09	-0.09	0	0	0	0	0	0
5/10/2024 12:18	62607	ENGL_T1	1	1	0	0	0	0	-0.83	-0.86	0	0	0	0	0	0
5/10/2024 12:18	64503	LAVI_T1	0	0	0	0	0	0	-0.47	-0.45	1	1	0	1200	1200	0
5/10/2024 12:19	50506	MECH_T1	0	0	0	0	0	0	-0.15	-0.2	1	1	0	900	900	0
5/10/2024 12:19	50502	MECH_T1	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
5/10/2024 12:19	65603	QVIL_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
5/10/2024 12:19	50501	MECH_T1	4	4	0	0.73	1.08	0.35	0	0	0	0	0	0	0	0
5/10/2024 12:19	65602	QVIL_T2	2	12	10	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/10/2024 12:23	65601	QVIL_T2	0	0	0	0	0	0	-1.24	-1.19	1	1	0	900	900	0
5/10/2024 12:23	65602	QVIL_T2	2	12	10	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/10/2024 12:24	60902	DONG_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
5/10/2024 12:24	29402	BELT_T1	1	1	0	8.4	8.6	0.2	0	0	0	0	0	0	0	0
5/10/2024 12:24	59003	MIFF_T1	1	1	0	0.7	0.8	0.1	0.64	0.69	0	0	0	0	0	0
5/10/2024 12:24	59002	MIFF_T1	5	5	0	0.96	1	0.04	0	0	0	0	0	0	0	0
5/10/2024 12:25	59102	WALK_T2	10	15	5	0.14	0.19	0.05	0.3	0.34	0	0	0	0	0	0
5/10/2024 12:25	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 12:25	29402	BELT_T1	1	1	0	8.4	8.6	0.2	0	0	0	0	0	0	0	0
5/10/2024 12:26	59002	MIFF_T1	5	5	0	0.96	1	0.04	0	0	0	0	0	0	0	0
5/10/2024 12:26	41502	FAIR_T2	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
5/10/2024 12:26	59003	MIFF_T1	1	1	0	0.7	0.8	0.1	0.64	0.69	0	0	0	0	0	0
5/10/2024 12:28	11801	FRAN_T2	0	1	1	0	0.1	0.1	0.12	0.1	0	0	0	0	0	0
5/10/2024 12:28	11803	FRAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 12:29	61704	ELIZ_T2	5	1	-4	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
5/10/2024 12:29	61702	ELIZ_T2	0	0	0	0	0	0	-0.91	-0.91	1	1	0	300	300	0
5/10/2024 12:30	46602	LACR_T1	2	1	-1	0.2	0.2	0	-1	-0.92	0	0	0	0	0	0
5/10/2024 12:30	11405	FARM_T1	0	0	0	0	0	0	-1.07	-1.1	1	1	0	1200	1200	0
5/10/2024 12:30	62607	ENGL_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 12:30	12006	HATF_T1	0	0	0	0	0	0	0.37	0.4	1	1	0	1200	1200	0
5/10/2024 12:30	62604	ENGL_T1	0	0	0	0	0	0	-0.24	-0.3	1	1	0	600	600	0
5/10/2024 12:31	42903	MIDD_T2	2	2	0	0.8	1.1	0.3	-1.17	-1.3	1	1	0	1200	1200	0
5/10/2024 12:32	62607	ENGL_T1	1	1	0	0	0	0	-1.71	-1.7	0	0	0	0	0	0
5/10/2024 12:33	62607	ENGL_T1	1	1	0	0	0	0	-0.86	-0.85	0	0	0	0	0	0
5/10/2024 12:34	65602	QVIL_T2	12	2	-10	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/10/2024 12:34	65603	QVIL_T2	0	0	0	0	0	0	0.23	0.44	0	0	0	0	0	0
5/10/2024 12:35	15103	UPHA_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
5/10/2024 12:35	13901	SEID_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
5/10/2024 12:36	23001	SAJO_T1	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
5/10/2024 12:40	59101	WALK_T2	0	0	0	0	0	0	1.46	1.37	0	0	0	0	0	0
5/10/2024 12:40	59102	WALK_T2	15	0	-15	0.19	0	-0.19	0	0	0	0	0	0	0	0
5/10/2024 12:40	62607	ENGL_T1	1	1	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
5/10/2024 12:41	15103	UPHA_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
5/10/2024 12:45	59302	MCAL_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
5/10/2024 12:45	59301	MCAL_T1	60	22	-38	0.35	0.33	-0.02	-1.26	-1.25	0	0	0	0	0	0
5/10/2024 12:45	23203	HIRU_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
5/10/2024 12:45	22602	KIMB_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
5/10/2024 12:46	42902	MIDD_T2	0	0	0	0	0	0	-0.78	-0.73	1	1	0	600	600	0
5/10/2024 12:46	42903	MIDD_T2	2	2	0	1.1	0.85	-0.25	0	0	0	0	0	0	0	0
5/10/2024 12:52	12502	MITR_T2	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
5/10/2024 12:52	12505	MITR_T2	0	0	0	0	0	0	0.8	0.81	0	0	0	0	0	0
5/10/2024 12:53	59302	MCAL_T1	2	2	0	0.35	0.3	-0.05	-0.35	-0.29	1	1	0	600	600	0
5/10/2024 12:53	59301	MCAL_T1	60	22	-38	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
5/10/2024 13:02	42903	MIDD_T2	2	2	0	0.85	1.35	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/10/2024 13:02	42902	MIDD_T2	0	0	0	0	0	0	-0.73	-0.62	1	1	0	600	600	0
5/10/2024 13:04	42002	MNVL_T2	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
5/10/2024 13:04	42001	MNVL_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
5/10/2024 13:05	42902	MIDD_T2	0	0	0	0	0	0	-0.73	-0.62	1	1	0	600	600	0
5/10/2024 13:05	42903	MIDD_T2	2	2	0	0.85	1.35	0.5	0	0	0	0	0	0	0	0
5/10/2024 13:07	47402	PENS_T1	1	1	0	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
5/10/2024 13:07	47401	PENS_T1	0	3	3	0	0.67	0.67	0.74	0.76	0	0	0	0	0	0
5/10/2024 13:07	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/10/2024 13:12	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
5/10/2024 13:13	61801	EELI_T2	0	0	0	0	0	0	-0.94	-0.96	1	1	0	600	600	0
5/10/2024 13:13	62102	ELAN_T1	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
5/10/2024 13:16	63602	LETO_T1	38	98	60	0.11	0.17	0.06	-0.59	-0.51	0	0	0	0	0	0
5/10/2024 13:17	56604	HAMP_T2	0	0	0	0	0	0	-0.45	-0.49	0	0	0	0	0	0
5/10/2024 13:17	56602	HAMP_T2	2	2	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
5/10/2024 13:19	13302	ORVI_T2	0	0	0	0	0	0	1.45	1.43	0	0	0	0	0	0
5/10/2024 13:22	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
5/10/2024 13:23	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.01	0	0	0	0	0	0
5/10/2024 13:24	14603	SWHI_T1	0	0	0	0	0	0	-1.1	-1.09	1	1	0	600	600	0
5/10/2024 13:31	50501	MECH_T1	4	4	0	1.23	1.2	-0.03	-0.17	0.16	0	0	0	0	0	0
5/10/2024 13:31	50502	MECH_T1	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
5/10/2024 13:34	60501	NMAN_T2	3	3	0	4.07	4.37	0.3	0	0	0	0	0	0	0	0
5/10/2024 13:34	60502	NMAN_T2	0	0	0	0	0	0	-0.37	-0.4	0	0	0	0	0	0
5/10/2024 13:38	57006	WHHI_T2	0	0	0	0	0	0	0.34	0.97	1	1	0	600	600	0
5/10/2024 13:40	57006	WHHI_T2	0	0	0	0	0	0	0.34	0.97	1	0	-1	600	0	-600
5/10/2024 13:44	64501	LAVI_T1	0	0	0	0	0	0	-0.28	-0.26	0	0	0	0	0	0
5/10/2024 13:45	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.66	0	0	0	0	0	0
5/10/2024 13:46	12801	MICK_T1	0	0	0	0	0	0	-0.09	-0.09	1	1	0	600	600	0
5/10/2024 13:46	12807	MICK_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/10/2024 13:47	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.66	0	0	0	0	0	0
5/10/2024 13:47	13103	NHAM_T2	0	0	0	0	0	0	-1.71	-1.73	1	1	0	600	600	0
5/10/2024 13:47	64501	LAVI_T1	0	0	0	0	0	0	-0.28	-0.26	0	0	0	0	0	0
5/10/2024 13:48	64503	LAVI_T1	0	0	0	0	0	0	-0.36	-0.36	1	1	0	1200	1200	0
5/10/2024 13:49	42902	MIDD_T2	0	0	0	0	0	0	-2.17	-2.13	3	3	0	1800	1800	0
5/10/2024 13:49	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.66	0	0	0	0	0	0
5/10/2024 13:52	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.06	0	0	0	0	0	0
5/10/2024 13:53	61102	BERK_T5	0	0	0	0	0	0	0.65	0.73	1	1	0	300	300	0
5/10/2024 13:54	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 13:54	29402	BELT_T1	1	1	0	8.7	8.5	-0.2	0	0	0	0	0	0	0	0
5/10/2024 13:55	61102	BERK_T5	0	0	0	0	0	0	0.65	0.73	1	1	0	300	300	0
5/10/2024 13:57	61102	BERK_T5	0	0	0	0	0	0	0.65	0.73	1	1	0	300	300	0
5/10/2024 13:58	61103	BERK_T5	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
5/10/2024 13:58	66203	SISP_T2	0	0	0	0	0	0	-0.7	-0.65	1	1	0	1200	1200	0
5/10/2024 13:59	46803	HEPB_T2	5	6	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
5/10/2024 13:59	46801	HEPB_T2	14	15	1	0.26	0.24	-0.02	0.6	0.59	0	0	0	0	0	0
5/10/2024 14:00	47001	HUGH_T2	1	1	0	0.1	0.2	0.1	-0.77	-0.81	0	0	0	0	0	0
5/10/2024 14:01	47001	HUGH_T2	1	1	0	0.1	0.2	0.1	-0.77	-0.81	0	0	0	0	0	0
5/10/2024 14:03	23201	HIRU_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 14:03	23203	HIRU_T2	0	0	0	0	0	0	0.05	0.15	0	0	0	0	0	0
5/10/2024 14:04	66504	SMAN_T2	0	0	0	0	0	0	-0.97	-1.1	0	0	0	0	0	0
5/10/2024 14:04	66505	SMAN_T2	1	3	2	0.3	0.77	0.47	-0.02	0.03	2	2	0	1100	1100	0
5/10/2024 14:05	58402	MORO_T1	0	0	0	0	0	0	-0.19	-0.2	2	2	0	1500	1500	0
5/10/2024 14:05	66505	SMAN_T2	1	3	2	0.3	0.77	0.47	0	0	0	0	0	0	0	0
5/10/2024 14:05	66504	SMAN_T2	0	0	0	0	0	0	-0.49	-0.55	0	0	0	0	0	0
5/10/2024 14:07	66505	SMAN_T2	1	3	2	0.3	0.77	0.47	0	0	0	0	0	0	0	0
5/10/2024 14:07	66502	SMAN_T2	0	0	0	0	0	0	0.28	0.2	0	0	0	0	0	0
5/10/2024 14:08	66505	SMAN_T2	1	3	2	0.3	0.77	0.47	0	0	0	0	0	0	0	0
5/10/2024 14:08	66502	SMAN_T2	0	0	0	0	0	0	0.2	0.08	0	0	0	0	0	0
5/10/2024 14:09	11401	FARM_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
5/10/2024 14:09	66505	SMAN_T2	1	3	2	0.3	0.77	0.47	0	0	0	0	0	0	0	0
5/10/2024 14:09	67401	WAKE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 14:09	66502	SMAN_T2	0	0	0	0	0	0	0.82	0.32	0	0	0	0	0	0
5/10/2024 14:09	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
5/10/2024 14:10	66502	SMAN_T2	0	0	0	0	0	0	0.2	0.08	0	0	0	0	0	0
5/10/2024 14:10	66505	SMAN_T2	1	3	2	0.3	0.77	0.47	0.03	-0.11	2	2	0	1100	1100	0
5/10/2024 14:10	59003	MIFF_T1	1	1	0	0.2	0.3	0.1	1.42	1.29	0	0	0	0	0	0
5/10/2024 14:10	59002	MIFF_T1	5	5	0	0.74	0.7	-0.04	0	0	0	0	0	0	0	0
5/10/2024 14:11	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 14:12	43202	MVIL_T2	179	187	8	0.96	1.06	0.1	0	0	0	0	0	0	0	0
5/10/2024 14:12	43201	MVIL_T2	1	1	0	0.2	0.2	0	-0.12	-0.4	0	0	0	0	0	0
5/10/2024 14:13	40701	FFLD_T1	71	70	-1	0.52	0.59	0.07	0	0	0	0	0	0	0	0
5/10/2024 14:13	40702	FFLD_T1	42	94	52	0.22	0.21	-0.01	-0.34	-0.39	1	1	0	1200	1200	0
5/10/2024 14:13	40703	FFLD_T1	4	4	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
5/10/2024 14:14	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 14:15	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
5/10/2024 14:16	46504	LOHA_T1	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
5/10/2024 14:16	64302	LINC_T2	0	0	0	0	0	0	0.97	0.95	0	0	0	0	0	0
5/10/2024 14:16	12606	MACA_T1	0	0	0	0	0	0	-0.35	-0.39	1	1	0	900	900	0
5/10/2024 14:16	46506	LOHA_T1	1	1	0	0.7	1	0.3	-0.42	-0.43	0	0	0	0	0	0
5/10/2024 14:17	50506	MECH_T1	0	0	0	0	0	0	-0.19	-0.15	1	1	0	900	900	0
5/10/2024 14:17	50501	MECH_T1	4	4	0	1.4	1.33	-0.07	0	0	0	0	0	0	0	0
5/10/2024 14:17	50502	MECH_T1	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
5/10/2024 14:17	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
5/10/2024 14:18	50501	MECH_T1	4	4	0	1.4	1.33	-0.07	0	0	0	0	0	0	0	0
5/10/2024 14:18	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
5/10/2024 14:18	50506	MECH_T1	0	0	0	0	0	0	-0.19	-0.15	1	1	0	900	900	0
5/10/2024 14:18	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
5/10/2024 14:18	50502	MECH_T1	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
5/10/2024 14:19	66001	RHEE_T2	0	0	0	0	0	0	-0.12	-0.14	2	2	0	1800	1800	0
5/10/2024 14:20	41801	GOCI_T2	4	1	-3	0.1	0.1	0	0	0	0	0	0	0	0	0
5/10/2024 14:20	65901	SAKR_T2	1	1	0	9.3	9.7	0.4	-1.21	-1.24	1	1	0	900	900	0
5/10/2024 14:20	49804	UNIV_T1	0	1	1	0	0.3	0.3	0.24	0.49	0	0	0	0	0	0
5/10/2024 14:23	66505	SMAN_T2	2	3	1	0.45	0.83	0.38	0	0	0	0	0	0	0	0
5/10/2024 14:23	66504	SMAN_T2	0	0	0	0	0	0	-0.64	-0.58	0	0	0	0	0	0
5/10/2024 14:24	51102	CARL_T1	40	95	55	0.18	0.26	0.08	0	0	0	0	0	0	0	0
5/10/2024 14:24	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 14:24	51109	CARL_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
5/10/2024 14:24	66001	RHEE_T2	0	0	0	0	0	0	-0.07	0.09	1	1	0	900	900	0
5/10/2024 14:24	16301	ALPA_T1	1	1	0	0.1	0.2	0.1	-0.42	-0.42	0	0	0	0	0	0
5/10/2024 14:24	51108	CARL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/10/2024 14:25	61701	ELIZ_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
5/10/2024 14:25	61703	ELIZ_T1	0	0	0	0	0	0	-2.58	-2.58	2	2	0	2100	2100	0
5/10/2024 14:25	13704	SOHN_T2	1	1	0	0.1	0.1	0	-0.36	-0.35	0	0	0	0	0	0
5/10/2024 14:26	14201	EALL_T1	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
5/10/2024 14:27	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 14:27	61703	ELIZ_T1	0	0	0	0	0	0	-2.58	-2.58	2	2	0	2100	2100	0
5/10/2024 14:27	61701	ELIZ_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
5/10/2024 14:27	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/10/2024 14:27	51101	CARL_T1	0	0	0	0	0	0	-1.31	-1.31	1	1	0	600	600	0
5/10/2024 14:27	51108	CARL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/10/2024 14:27	51102	CARL_T1	40	95	55	0.18	0.26	0.08	0	0	0	0	0	0	0	0
5/10/2024 14:29	61703	ELIZ_T1	0	0	0	0	0	0	-2.58	-2.58	2	2	0	2100	2100	0
5/10/2024 14:29	61701	ELIZ_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
5/10/2024 14:30	61703	ELIZ_T1	0	0	0	0	0	0	-5.16	-5.16	4	4	0	4200	4200	0
5/10/2024 14:30	61701	ELIZ_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
5/10/2024 14:32	24501	GOUL_T2	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
5/10/2024 14:34	44802	EDAN_T2	0	0	0	0	0	0	-2.26	-2.24	0	0	0	0	0	0
5/10/2024 14:35	44802	EDAN_T2	0	0	0	0	0	0	-4.52	-4.48	0	0	0	0	0	0
5/10/2024 14:36	49804	UNIV_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/10/2024 14:36	49803	UNIV_T1	0	0	0	0	0	0	0.31	0.36	0	0	0	0	0	0
5/10/2024 14:37	44802	EDAN_T2	0	0	0	0	0	0	-4.52	-4.48	0	0	0	0	0	0
5/10/2024 14:38	44802	EDAN_T2	0	0	0	0	0	0	-2.26	-2.24	0	0	0	0	0	0
5/10/2024 14:39	42201	SHEN_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
5/10/2024 14:42	42201	SHEN_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
5/10/2024 14:43	46004	BERW_T2	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
5/10/2024 14:46	63306	GREE_T1	0	0	0	0	0	0	-1.14	-1.13	0	0	0	0	0	0
5/10/2024 14:46	63305	GREE_T1	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
5/10/2024 14:51	45303	WBER_T2	5	7	2	0.16	0.24	0.08	-0.26	-0.22	0	0	0	0	0	0
5/10/2024 14:52	47002	HUGH_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/10/2024 14:52	45303	WBER_T2	5	7	2	0.16	0.24	0.08	-0.51	-0.44	0	0	0	0	0	0
5/10/2024 14:52	47001	HUGH_T2	4	7	3	0.23	0.2	-0.03	-0.85	-0.85	0	0	0	0	0	0
5/10/2024 14:55	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/10/2024 14:56	61103	BERK_T5	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
5/10/2024 15:05	65702	RVIL_T2	0	0	0	0	0	0	-2.1	-2.12	2	2	0	1200	1200	0
5/10/2024 15:07	45402	WBLO_T2	2	2	0	1.05	0.95	-0.1	-0.84	-0.86	0	0	0	0	0	0
5/10/2024 15:08	65702	RVIL_T2	0	0	0	0	0	0	-1.06	-1.04	1	1	0	600	600	0
5/10/2024 15:10	66505	SMAN_T2	3	3	0	1.07	1.13	0.06	0	0	0	0	0	0	0	0
5/10/2024 15:10	66503	SMAN_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
5/10/2024 15:11	14204	EALL_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
5/10/2024 15:12	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
5/10/2024 15:13	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/10/2024 15:14	46803	HEPB_T2	7	23	16	0.23	0.26	0.03	0.49	0.49	0	0	0	0	0	0
5/10/2024 15:14	46801	HEPB_T2	17	31	14	0.29	0.31	0.02	0	0	0	0	0	0	0	0
5/10/2024 15:18	46802	HEPB_T1	5	16	11	0.4	0.16	-0.24	-0.31	-0.33	0	0	0	0	0	0
5/10/2024 15:22	56501	ROCK_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
5/10/2024 15:23	56801	BENV_T1	24	23	-1	0.92	1.12	0.2	0	0	0	0	0	0	0	0
5/10/2024 15:23	29402	BELT_T1	1	1	0	9	8.7	-0.3	0	0	0	0	0	0	0	0
5/10/2024 15:23	56803	BENV_T1	171	200	29	0.41	0.54	0.13	-0.16	-0.14	2	2	0	1200	1200	0
5/10/2024 15:23	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/10/2024 15:27	61303	EARL_T1	0	0	0	0	0	0	0.23	0.17	0	0	0	0	0	0
5/10/2024 15:28	61303	EARL_T1	0	0	0	0	0	0	0.46	0.33	0	0	0	0	0	0
5/10/2024 15:31	65402	MARI_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 15:31	65401	MARI_T1	3	0	-3	0.1	0	-0.1	0.28	0.24	0	0	0	0	0	0
5/10/2024 15:34	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 15:35	66001	RHEE_T2	0	0	0	0	0	0	-0.62	-0.65	1	1	0	900	900	0
5/10/2024 15:37	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 15:38	66001	RHEE_T2	0	0	0	0	0	0	-1.3	-1.42	2	2	0	1800	1800	0
5/10/2024 15:42	20603	GRWO_T2	0	0	0	0	0	0	-0.71	0.32	1	0	-1	900	0	-900
5/10/2024 15:46	12604	MACA_T1	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
5/10/2024 15:46	12601	MACA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/10/2024 15:47	12601	MACA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/10/2024 15:47	12604	MACA_T1	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
5/10/2024 15:49	55001	NEWP_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/10/2024 15:49	55002	NEWP_T1	5	6	1	1.1	0.95	-0.15	-0.26	-0.27	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/10/2024 15:50	65602	QVIL_T2	4	5	1	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
5/10/2024 15:50	55002	NEWP_T1	5	6	1	1.1	0.95	-0.15	-0.26	-0.27	0	0	0	0	0	0
5/10/2024 15:50	55001	NEWP_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/10/2024 15:50	65603	QVIL_T2	0	0	0	0	0	0	0.31	0.41	0	0	0	0	0	0
5/10/2024 15:52	26001	WDAM_T1	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
5/10/2024 15:52	26002	WDAM_T1	4	3	-1	0.3	0.93	0.63	0	0	0	0	0	0	0	0
5/10/2024 15:53	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 15:53	29402	BELT_T1	1	1	0	8.3	8.5	0.2	0	0	0	0	0	0	0	0
5/10/2024 15:54	58001	WCAR_T1	4	4	0	1.35	1.48	0.13	0	0	0	0	0	0	0	0
5/10/2024 15:54	58003	WCAR_T1	1	7	6	1.5	0.37	-1.13	0.77	0.72	0	0	0	0	0	0
5/10/2024 15:54	16301	ALPA_T1	1	1	0	0.2	0.3	0.1	-0.42	-0.42	0	0	0	0	0	0
5/10/2024 15:55	43506	WWIL_T1	3	1	-2	0.8	2.1	1.3	0	0	0	0	0	0	0	0
5/10/2024 15:55	43505	WWIL_T1	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0	0
5/10/2024 15:55	43504	WWIL_T1	16	14	-2	0.61	0.66	0.05	0.52	0.54	0	0	0	0	0	0
5/10/2024 16:01	59301	MCAL_T1	84	87	3	0.77	0.84	0.07	-1.24	-1.27	0	0	0	0	0	0
5/10/2024 16:01	59302	MCAL_T1	18	2	-16	0.27	1.25	0.98	0	0	0	0	0	0	0	0
5/10/2024 16:04	57203	ROSS_T1	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
5/10/2024 16:05	57203	ROSS_T1	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
5/10/2024 16:07	13704	SCHN_T2	1	1	0	0.2	0.1	-0.1	-0.36	-0.37	0	0	0	0	0	0
5/10/2024 16:09	45901	AUBU_T1	0	0	0	0	0	0	1.77	1.77	0	0	0	0	0	0
5/10/2024 16:10	21206	ECAR_T2	1	1	0	7.8	8.2	0.4	-0.18	-0.24	0	0	0	0	0	0
5/10/2024 16:10	21204	ECAR_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/10/2024 16:10	45501	DERR_T2	1	0	-1	0.2	0	-0.2	-0.42	-0.39	2	2	0	1800	1800	0
5/10/2024 16:11	61701	ELIZ_T1	1	1	0	5.8	5.7	-0.1	0.32	0.34	0	0	0	0	0	0
5/10/2024 16:12	45501	DERR_T2	1	0	-1	0.2	0	-0.2	-0.42	-0.39	2	2	0	1800	1800	0
5/10/2024 16:14	21204	ECAR_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/10/2024 16:14	40902	JESH_T1	1	0	-1	0.1	0	-0.1	-0.72	-0.71	0	0	0	0	0	0
5/10/2024 16:14	21206	ECAR_T2	1	1	0	7.8	8.2	0.4	-0.18	-0.24	0	0	0	0	0	0
5/10/2024 16:15	21206	ECAR_T2	1	1	0	7.9	8.2	0.3	-0.18	-0.24	0	0	0	0	0	0
5/10/2024 16:15	40902	JESH_T1	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
5/10/2024 16:15	21204	ECAR_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/10/2024 16:16	46506	LOHA_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
5/10/2024 16:16	44503	HAMI_T2	0	0	0	0	0	0	-1.75	-1.75	1	1	0	1200	1200	0
5/10/2024 16:16	46501	LOHA_T1	0	0	0	0	0	0	-0.18	-0.18	1	1	0	1200	1200	0
5/10/2024 16:16	46504	LOHA_T1	2	2	0	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
5/10/2024 16:16	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
5/10/2024 16:19	40902	JESH_T1	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
5/10/2024 16:19	50501	MECH_T1	4	4	0	1.23	1.15	-0.08	0.06	0.02	0	0	0	0	0	0
5/10/2024 16:19	50502	MECH_T1	1	1	0	2.5	2.5	0	0	0	0	0	0	0	0	0
5/10/2024 16:20	57401	SPAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/10/2024 16:20	58001	WCAR_T1	4	4	0	1.4	1.38	-0.02	0	0	0	0	0	0	0	0
5/10/2024 16:20	57403	SPAN_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
5/10/2024 16:20	58003	WCAR_T1	6	1	-5	0.4	1.5	1.1	0.72	0.73	0	0	0	0	0	0
5/10/2024 16:22	65901	SAKR_T2	1	1	0	9.7	9.9	0.2	0	0	0	0	0	0	0	0
5/10/2024 16:22	65903	SAKR_T2	0	0	0	0	0	0	-1.16	-1.22	3	3	0	2100	2100	0
5/10/2024 16:23	41202	KENM_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/10/2024 16:23	41205	KENM_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
5/10/2024 16:26	21204	ECAR_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/10/2024 16:26	21206	ECAR_T2	1	1	0	7.9	8.2	0.3	-0.24	-0.28	0	0	0	0	0	0
5/10/2024 16:30	21206	ECAR_T2	1	1	0	8.2	7.7	-0.5	-0.24	-0.28	0	0	0	0	0	0
5/10/2024 16:30	21204	ECAR_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/10/2024 16:31	20603	GRWO_T2	0	3	3	0	1.37	1.37	0.29	0.29	0	0	0	0	0	0
5/10/2024 16:32	46504	LOHA_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
5/10/2024 16:32	46506	LOHA_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/10/2024 16:32	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
5/10/2024 16:33	28703	HAML_T2	3	3	0	0.6	0.47	-0.13	0	0	0	0	0	0	0	0
5/10/2024 16:33	28704	HAML_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
5/10/2024 16:35	50502	MECH_T1	1	1	0	2.5	2.6	0.1	0	0	0	0	0	0	0	0
5/10/2024 16:35	50501	MECH_T1	4	4	0	1.15	1.03	-0.12	0.02	0.03	0	0	0	0	0	0
5/10/2024 16:37	65702	RVIL_T2	0	1	1	0	0.1	0.1	-1.05	-1.03	1	1	0	600	600	0
5/10/2024 16:39	65702	RVIL_T2	0	1	1	0	0.1	0.1	-1.03	-1.05	1	1	0	600	600	0
5/10/2024 16:40	59102	WALK_T2	36	45	9	0.16	0.22	0.06	0	0	0	0	0	0	0	0
5/10/2024 16:40	29402	BELT_T1	1	1	0	8.1	8.3	0.2	0	0	0	0	0	0	0	0
5/10/2024 16:40	59101	WALK_T2	0	0	0	0	0	0	1.11	1.38	0	0	0	0	0	0
5/10/2024 16:40	65702	RVIL_T2	0	1	1	0	0.1	0.1	-1.03	-1.05	1	1	0	600	600	0
5/10/2024 16:40	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 16:42	17401	FOHI_T1	0	0	0	0	0	0	-1.03	-1.03	0	0	0	0	0	0
5/10/2024 16:44	44502	HAMI_T2	1	1	0	3.4	3.3	-0.1	0	0	0	0	0	0	0	0
5/10/2024 16:44	44503	HAMI_T2	0	0	0	0	0	0	-1.74	-1.76	1	1	0	1200	1200	0
5/10/2024 16:45	24101	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 16:45	24105	EHAZ_T1	4	4	0	6.05	6.03	-0.02	0	0	0	0	0	0	0	0
5/10/2024 16:45	24102	EHAZ_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
5/10/2024 16:49	13303	ORVI_T1	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
5/10/2024 16:52	58003	WCAR_T1	1	6	5	1.5	0.4	-1.1	0.71	0.73	0	0	0	0	0	0
5/10/2024 16:52	58001	WCAR_T1	4	4	0	1.33	1.48	0.15	0	0	0	0	0	0	0	0
5/10/2024 16:53	44601	SALE_T2	1	1	0	0.5	0.8	0.3	-0.16	-0.2	0	0	0	0	0	0
5/10/2024 16:53	13901	SEID_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
5/10/2024 17:03	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.61	0	0	0	0	0	0
5/10/2024 17:03	46506	LOHA_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/10/2024 17:04	46506	LOHA_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/10/2024 17:04	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.61	0	0	0	0	0	0
5/10/2024 17:04	47401	PENS_T1	0	0	0	0	0	0	1.35	1.28	0	0	0	0	0	0
5/10/2024 17:05	47401	PENS_T1	0	0	0	0	0	0	0.68	0.64	0	0	0	0	0	0
5/10/2024 17:06	40801	EXCH_T2	0	0	0	0	0	0	0.83	0.83	0	0	0	0	0	0
5/10/2024 17:09	20401	ASHF_T2	2	3	1	0.75	0.6	-0.15	-0.42	-0.4	0	0	0	0	0	0
5/10/2024 17:17	64502	LAVI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 17:17	64503	LAVI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/10/2024 17:17	64501	LAVI_T1	2	3	1	0.15	0.1	-0.05	-0.45	-0.46	0	0	0	0	0	0
5/10/2024 17:18	64503	LAVI_T1	1	1	0	0.1	0.1	0	-0.49	-0.37	1	1	0	1200	1200	0
5/10/2024 17:18	64502	LAVI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 17:18	64501	LAVI_T1	2	3	1	0.15	0.1	-0.05	-0.9	-0.91	0	0	0	0	0	0
5/10/2024 17:19	64503	LAVI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/10/2024 17:19	24201	PROV_T3	1	1	0	7.1	7.1	0	-0.16	-0.16	0	0	0	0	0	0
5/10/2024 17:19	64501	LAVI_T1	2	3	1	0.15	0.1	-0.05	-0.45	-0.46	0	0	0	0	0	0
5/10/2024 17:19	64502	LAVI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 17:19	24204	PROV_T3	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
5/10/2024 17:23	57101	SPHI_T2	6	6	0	1.12	1.2	0.08	0	0	0	0	0	0	0	0
5/10/2024 17:23	57106	SPHI_T2	3	3	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
5/10/2024 17:23	64902	MILL_T2	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
5/10/2024 17:23	57103	SPHI_T2	0	0	0	0	0	0	-0.3	-0.27	1	1	0	600	600	0
5/10/2024 17:25	45902	AUBU_T1	0	0	0	0	0	0	-1.05	-1.05	1	1	0	600	600	0
5/10/2024 17:26	45901	AUBU_T1	0	0	0	0	0	0	1.81	1.81	0	0	0	0	0	0
5/10/2024 17:29	46402	FLEM_T2	24	25	1	0.39	0.4	0.01	0	0	0	0	0	0	0	0
5/10/2024 17:29	46401	FLEM_T2	49	33	-16	0.17	0.18	0.01	0.45	0.45	0	0	0	0	0	0
5/10/2024 17:35	40302	TAMA_T3	0	0	0	0	0	0	0.1	0.06	0	0	0	0	0	0
5/10/2024 17:35	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/10/2024 17:35	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 17:40	13901	SEID_T1	0	0	0	0	0	0	0.42	0.33	0	0	0	0	0	0
5/10/2024 17:46	46004	BERW_T2	0	0	0	0	0	0	-0.55	-0.6	0	0	0	0	0	0
5/10/2024 17:51	40601	PIGR_T1	88	99	11	0.17	0.17	0	0	0	0	0	0	0	0	0
5/10/2024 17:51	40602	PIGR_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
5/10/2024 17:51	13901	SEID_T1	0	0	0	0	0	0	0.42	0.33	0	0	0	0	0	0
5/10/2024 17:52	64904	MILL_T1	0	0	0	0	0	0	0.45	0.4	0	0	0	0	0	0
5/10/2024 17:53	45902	AUBU_T1	0	0	0	0	0	0	-3.04	-3.2	3	3	0	1800	1800	0
5/10/2024 17:54	45902	AUBU_T1	0	0	0	0	0	0	-1.01	-1.07	1	1	0	600	600	0
5/10/2024 17:55	45902	AUBU_T1	0	0	0	0	0	0	-1.01	-1.07	1	1	0	600	600	0
5/10/2024 17:56	64904	MILL_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
5/10/2024 17:58	45902	AUBU_T1	0	0	0	0	0	0	-1.01	-1.07	1	1	0	600	600	0
5/10/2024 18:02	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 18:02	62605	ENGL_T1	0	0	0	0	0	0	-0.85	-0.84	0	0	0	0	0	0
5/10/2024 18:02	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 18:06	44802	EDAN_T2	0	0	0	0	0	0	-2.25	-2.26	0	0	0	0	0	0
5/10/2024 18:07	44802	EDAN_T2	0	0	0	0	0	0	-6.75	-6.78	0	0	0	0	0	0
5/10/2024 18:13	62103	ELAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/10/2024 18:13	62102	ELAN_T1	0	0	0	0	0	0	0.56	0.6	0	0	0	0	0	0
5/10/2024 18:13	62105	ELAN_T1	0	11	11	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 18:13	62101	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/10/2024 18:17	64305	LINC_T1	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
5/10/2024 18:21	54202	PENN_T2	0	0	0	0	0	0	0.3	0.33	0	0	0	0	0	0
5/10/2024 18:22	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 18:26	67702	WERN_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
5/10/2024 18:29	66202	SISP_T2	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
5/10/2024 18:29	66201	SISP_T2	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
5/10/2024 18:30	50103	HARR_T3	2	2	0	0.5	0.25	-0.25	-1.06	-0.84	1	1	0	1200	1200	0
5/10/2024 18:30	50105	HARR_T3	6	6	0	5.57	5.78	0.21	0	0	0	0	0	0	0	0
5/10/2024 18:30	50201	HARR_T3	1	1	0	1.3	0.2	-1.1	0	0	0	0	0	0	0	0
5/10/2024 18:30	50102	HARR_T3	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 18:30	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.7	0	0	0	0	0	0
5/10/2024 18:32	47502	NECO_T1	70	120	50	0.24	0.27	0.03	0.75	0.73	0	0	0	0	0	0
5/10/2024 18:34	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 18:34	62605	ENGL_T1	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
5/10/2024 18:35	50201	HARR_T3	1	1	0	1.3	0.2	-1.1	0	0	0	0	0	0	0	0
5/10/2024 18:35	50103	HARR_T3	2	2	0	0.5	0.25	-0.25	-1.06	-0.84	1	1	0	1200	1200	0
5/10/2024 18:35	50105	HARR_T3	6	6	0	5.57	5.78	0.21	0	0	0	0	0	0	0	0
5/10/2024 18:35	58001	WCAR_T1	4	4	0	1.4	1.48	0.08	0	0	0	0	0	0	0	0
5/10/2024 18:35	50102	HARR_T3	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 18:35	58003	WCAR_T1	11	2	-9	0.29	1.05	0.76	0.63	0.62	0	0	0	0	0	0
5/10/2024 18:37	67502	WEWI_T2	5	17	12	0.1	0.12	0.02	0	0	0	0	0	0	0	0
5/10/2024 18:37	67503	WEWI_T2	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
5/10/2024 18:37	59201	THOM_T1	88	88	0	0.67	0.65	-0.02	0	0	0	0	0	0	0	0
5/10/2024 18:37	59202	THOM_T1	747	731	-16	0.89	0.87	-0.02	0	0	0	0	0	0	0	0
5/10/2024 18:38	67505	WEWI_T1	0	0	0	0	0	0	-0.33	-0.31	1	1	0	900	900	0
5/10/2024 18:41	51107	CARL_T1	0	0	0	0	0	0	-0.58	-0.53	0	0	0	0	0	0
5/10/2024 18:41	51102	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 18:42	64902	MILL_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
5/10/2024 18:46	12002	HATF_T1	0	0	0	0	0	0	0.21	0.15	0	0	0	0	0	0
5/10/2024 18:47	11801	FRAN_T2	0	0	0	0	0	0	-0.04	-0.07	0	0	0	0	0	0
5/10/2024 18:48	12601	MACA_T1	0	0	0	0	0	0	0.72	0.71	0	0	0	0	0	0
5/10/2024 18:48	52002	LING_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/10/2024 18:48	52004	LING_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
5/10/2024 18:48	52006	LING_T2	3	3	0	0.67	0.77	0.1	0	0	0	0	0	0	0	0
5/10/2024 18:48	55002	NEWP_T1	4	4	0	1.43	1.35	-0.08	0	0	0	0	0	0	0	0
5/10/2024 18:48	55001	NEWP_T1	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/10/2024 18:49	55002	NEWP_T1	4	4	0	1.43	1.35	-0.08	0	0	0	0	0	0	0	0
5/10/2024 18:49	55001	NEWP_T1	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
5/10/2024 18:52	55102	WERT_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
5/10/2024 18:53	64902	MILL_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
5/10/2024 18:53	42701	AUGU_T1	0	1	1	0	0.4	0.4	0	0	2	2	0	1800	1800	0
5/10/2024 18:54	43102	SMIL_T2	6	6	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
5/10/2024 18:54	43105	SMIL_T2	17	19	2	0.34	0.42	0.08	0	0	0	0	0	0	0	0
5/10/2024 18:54	43103	SMIL_T2	21	21	0	0.73	0.87	0.14	0	0	0	0	0	0	0	0
5/10/2024 18:54	43104	SMIL_T2	0	0	0	0	0	0	-0.87	-0.86	1	1	0	300	300	0
5/10/2024 18:58	64904	MILL_T1	0	1	1	0	0	0	0.44	0.45	0	0	0	0	0	0
5/10/2024 18:59	64302	LINC_T2	0	0	0	0	0	0	0.96	1	0	0	0	0	0	0
5/10/2024 19:09	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/10/2024 19:09	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 19:09	43302	WATS_T2	4	4	0	0.95	1	0.05	0	0	0	0	0	0	0	0
5/10/2024 19:10	62105	ELAN_T1	31	7	-24	0.1	0.1	0	0	0	0	0	0	0	0	0
5/10/2024 19:10	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	1	1	0	900	900	0
5/10/2024 19:10	62102	ELAN_T1	0	0	0	0	0	0	0.59	0.55	0	0	0	0	0	0
5/10/2024 19:10	43302	WATS_T2	4	4	0	0.95	1	0.05	0	0	0	0	0	0	0	0
5/10/2024 19:10	62103	ELAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/10/2024 19:10	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/10/2024 19:21	55102	WERT_T2	0	0	0	0	0	0	-0.28	-0.35	0	0	0	0	0	0
5/10/2024 19:25	15001	BLMO_T1	3	4	1	0.17	0.18	0.01	0	0	0	0	0	0	0	0
5/10/2024 19:33	13101	NHAM_T1	15	18	3	0.19	0.23	0.04	-2.38	-2.41	2	2	0	2100	2100	0
5/10/2024 19:34	50105	HARR_T3	6	6	0	5.92	5.6	-0.32	0	0	0	0	0	0	0	0
5/10/2024 19:34	50201	HARR_T3	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/10/2024 19:34	50103	HARR_T3	0	2	2	0	0.55	0.55	-0.95	-0.96	1	1	0	1200	1200	0
5/10/2024 19:38	13101	NHAM_T1	15	18	3	0.19	0.23	0.04	-2.38	-2.41	2	2	0	2100	2100	0
5/10/2024 19:43	64305	LINC_T1	0	1	1	0	0.1	0.1	-0.53	-0.54	0	0	0	0	0	0
5/10/2024 19:54	13501	MCMI_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
5/10/2024 20:07	46302	ROHR_T1	164	140	-24	0.43	0.42	-0.01	0.19	0.17	0	0	0	0	0	0
5/10/2024 20:07	46301	ROHR_T1	298	352	54	0.72	0.75	0.03	0	0	0	0	0	0	0	0
5/10/2024 20:12	67805	WLAN_T1	324	107	-217	0.26	0.17	-0.09	-1.63	-1.62	0	0	0	0	0	0
5/10/2024 20:12	67804	WLAN_T1	0	0	0	0	0	0	-1.12	-1.1	0	0	0	0	0	0
5/10/2024 20:13	67801	WLAN_T1	0	0	0	0	0	0	0.88	0.94	0	0	0	0	0	0
5/10/2024 20:13	67803	WLAN_T1	0	0	0	0	0	0	-0.92	-0.89	0	0	0	0	0	0
5/10/2024 20:13	67805	WLAN_T1	324	107	-217	0.26	0.17	-0.09	0	0	0	0	0	0	0	0
5/10/2024 20:21	13501	MCMI_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
5/10/2024 20:23	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 20:23	40502	CRES_T2	0	8	8	0	0.11	0.11	0.49	-0.12	0	0	0	0	0	0
5/10/2024 20:38	60502	NMAN_T2	0	0	0	0	0	0	-0.47	-0.55	0	0	0	0	0	0
5/10/2024 20:38	60501	NMAN_T2	3	3	0	4.8	5	0.2	0	0	0	0	0	0	0	0
5/10/2024 20:38	51101	CARL_T1	0	0	0	0	0	0	-1.56	-1.59	1	1	0	600	600	0
5/10/2024 20:38	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 20:38	51102	CARL_T1	1	7	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
5/10/2024 20:42	13501	MCMI_T1	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0	0
5/10/2024 20:44	64904	MILL_T1	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
5/10/2024 21:07	63402	HONY_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/10/2024 21:07	63403	HONY_T2	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
5/10/2024 21:08	12601	MACA_T1	0	1	1	0	0	0	0.69	0.69	0	0	0	0	0	0
5/10/2024 21:26	64302	LINC_T2	0	0	0	0	0	0	0.87	0.91	0	0	0	0	0	0
5/10/2024 21:30	50201	HARR_T3	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/10/2024 21:30	50202	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/10/2024 21:30	50102	HARR_T3	3	7	4	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
5/10/2024 21:30	50103	HARR_T3	2	2	0	0.75	0.6	-0.15	-0.96	-0.85	1	1	0	1200	1200	0
5/10/2024 21:30	50105	HARR_T3	6	6	0	5.58	5.62	0.04	0	0	0	0	0	0	0	0
5/10/2024 21:31	11405	FARM_T1	1	2	1	3.2	1.55	-1.65	-1.13	-1.12	1	1	0	1200	1200	0
5/10/2024 21:35	61103	BERK_T5	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
5/10/2024 21:35	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 21:35	61101	BERK_T5	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/10/2024 21:36	55102	WERT_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
5/10/2024 21:37	13303	ORVI_T1	0	0	0	0	0	0	0.86	0.83	0	0	0	0	0	0
5/10/2024 21:37	55102	WERT_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
5/10/2024 21:39	12002	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 21:40	61101	BERK_T5	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/10/2024 21:40	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 21:40	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/10/2024 21:41	64304	LINC_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 21:41	40802	EXCH_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
5/10/2024 21:41	64302	LINC_T2	0	0	0	0	0	0	0.91	0.92	0	0	0	0	0	0
5/10/2024 21:42	15204	SFAR_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
5/10/2024 21:43	12803	MICK_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/10/2024 21:43	12801	MICK_T1	0	0	0	0	0	0	-0.26	-0.28	1	1	0	600	600	0
5/10/2024 21:43	12802	MICK_T1	0	24	24	0	0.2	0.2	0	0	0	0	0	0	0	0
5/10/2024 21:43	12807	MICK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/10/2024 21:43	13302	ORVI_T2	0	0	0	0	0	0	1.34	1.47	0	0	0	0	0	0
5/10/2024 21:45	62607	ENGL_T1	0	0	0	0	0	0	-1.21	-1.2	1	1	0	300	300	0
5/10/2024 21:45	14201	EALL_T1	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
5/10/2024 21:47	46802	HEPB_T1	1	1	0	0.9	1	0.1	-0.32	-0.34	0	0	0	0	0	0
5/10/2024 21:47	40802	EXCH_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
5/10/2024 21:48	61102	BERK_T5	0	1	1	0	0.1	0.1	0.5	0.38	1	1	0	300	300	0
5/10/2024 21:48	61101	BERK_T5	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/10/2024 21:49	13103	NHAM_T2	0	0	0	0	0	0	-1.78	-1.8	1	1	0	600	600	0
5/10/2024 21:51	57006	WHHI_T2	1	2	1	0.3	0.2	-0.1	0.5	0.57	0	0	0	0	0	0
5/10/2024 21:51	59102	WALK_T2	149	160	11	0.88	0.91	0.03	0	0	0	0	0	0	0	0
5/10/2024 21:51	55102	WERT_T2	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
5/10/2024 21:51	59101	WALK_T2	27	27	0	0.41	0.37	-0.04	-0.14	-0.04	0	0	0	0	0	0
5/10/2024 21:51	11801	FRAN_T2	2	2	0	0.1	0.2	0.1	-0.03	-0.03	0	0	0	0	0	0
5/10/2024 21:51	57101	SPHI_T2	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
5/10/2024 21:51	57106	SPHI_T2	2	2	0	1.4	1.55	0.15	0	0	0	0	0	0	0	0
5/10/2024 21:51	57103	SPHI_T2	0	0	0	0	0	0	-0.3	-0.34	1	1	0	600	600	0
5/10/2024 21:51	57003	WHHI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/10/2024 21:51	12606	MACA_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
5/10/2024 21:52	46602	LACR_T1	1	2	1	0.3	0.2	-0.1	-1.06	-1.06	0	0	0	0	0	0
5/10/2024 21:52	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
5/10/2024 21:52	65603	QVIL_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
5/10/2024 21:52	64702	LITI_T2	0	0	0	0	0	0	-1.61	-1.64	0	0	0	0	0	0
5/10/2024 21:52	67703	WERN_T2	0	0	0	0	0	0	-0.29	-0.3	1	1	0	900	900	0
5/10/2024 21:53	57006	WHHI_T2	1	2	1	0.3	0.2	-0.1	0.57	0.67	0	0	0	0	0	0
5/10/2024 21:53	57003	WHHI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/10/2024 21:53	14204	EALL_T2	0	0	0	0	0	0	-0.84	-0.82	0	0	0	0	0	0
5/10/2024 21:54	11801	FRAN_T2	2	2	0	0.1	0.2	0.1	-0.03	0.08	0	0	0	0	0	0
5/10/2024 21:55	64502	LAVI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 21:55	64702	LITI_T2	0	0	0	0	0	0	-0.82	-0.72	0	0	0	0	0	0
5/10/2024 21:55	58001	WCAR_T1	8	11	3	1.01	0.79	-0.22	0	0	0	0	0	0	0	0
5/10/2024 21:55	64501	LAVI_T1	0	4	4	0	0.1	0.1	-0.45	-0.43	0	0	0	0	0	0
5/10/2024 21:55	64701	LITI_T1	0	0	0	0	0	0	0.05	0.44	0	0	0	0	0	0
5/10/2024 21:55	12604	MACA_T1	0	0	0	0	0	0	0.23	0.36	0	0	0	0	0	0
5/10/2024 21:55	61101	BERK_T5	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/10/2024 21:55	61102	BERK_T5	0	1	1	0	0.1	0.1	0.38	0.6	1	1	0	300	300	0
5/10/2024 21:55	58003	WCAR_T1	53	60	7	0.25	0.35	0.1	0.58	0.58	0	0	0	0	0	0
5/10/2024 21:56	16301	ALPA_T1	2	11	9	0.35	0.17	-0.18	-0.49	-0.2	0	0	0	0	0	0
5/10/2024 21:56	43506	WWIL_T1	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
5/10/2024 21:56	62607	ENGL_T1	0	0	0	0	0	0	-1.2	-1.22	1	1	0	300	300	0
5/10/2024 21:56	67703	WERN_T2	0	0	0	0	0	0	-0.3	-0.53	1	1	0	900	900	0
5/10/2024 21:56	61102	BERK_T5	0	1	1	0	0.1	0.1	0.38	0.6	1	1	0	300	300	0
5/10/2024 21:56	43504	WWIL_T1	9	12	3	0.39	0.5	0.11	0.49	0.44	0	0	0	0	0	0
5/10/2024 21:56	61101	BERK_T5	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/10/2024 21:56	45602	WOOL_T1	2	2	0	0.2	0.35	0.15	0.42	0.41	0	0	0	0	0	0
5/10/2024 21:56	43505	WWIL_T1	1	2	1	2.4	2.4	0	0	0	0	0	0	0	0	0
5/10/2024 21:57	56604	HAMP_T2	0	0	0	0	0	0	-0.64	-0.49	0	0	0	0	0	0
5/10/2024 21:57	59003	MIFF_T1	1	1	0	1.1	1.2	0.1	0.6	0.6	0	0	0	0	0	0
5/10/2024 21:57	59002	MIFF_T1	6	27	21	0.87	0.34	-0.53	0	0	0	0	0	0	0	0
5/10/2024 21:57	46506	LOHA_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/10/2024 21:57	46501	LOHA_T1	0	0	0	0	0	0	-0.19	-0.11	1	1	0	1200	1200	0
5/10/2024 21:57	13901	SEID_T1	0	0	0	0	0	0	0.2	-0.88	0	1	1	0	1200	1200
5/10/2024 21:57	46504	LOHA_T1	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/10/2024 21:57	64701	LITI_T1	0	0	0	0	0	0	0.05	0.44	0	0	0	0	0	0
5/10/2024 21:57	59001	MIFF_T1	15	28	13	0.15	0.21	0.06	0	0	0	0	0	0	0	0
5/10/2024 21:57	56602	HAMP_T2	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
5/10/2024 21:58	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 21:58	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/10/2024 21:58	12502	MITR_T2	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
5/10/2024 21:58	12006	HATF_T1	0	0	0	0	0	0	0.52	0.63	0	0	0	0	0	0
5/10/2024 21:58	12505	MITR_T2	0	0	0	0	0	0	0.39	0.53	0	0	0	0	0	0
5/10/2024 21:58	55001	NEWP_T1	4	9	5	0.23	0.12	-0.11	-0.18	-0.27	0	0	0	0	0	0
5/10/2024 21:58	12007	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 21:58	55002	NEWP_T1	5	6	1	1.38	1.35	-0.03	0	0	0	0	0	0	0	0
5/10/2024 22:00	43801	SWIL_T1	23	38	15	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
5/10/2024 22:00	62607	ENGL_T1	0	182	182	0	0.17	0.17	-1.2	-1.22	1	1	0	300	300	0
5/10/2024 22:00	44301	BEAV_T2	0	0	0	0	0	0	0.11	0.03	1	1	0	600	600	0
5/10/2024 22:00	24101	EHAZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/10/2024 22:00	46502	LOHA_T1	0	0	0	0	0	0	-0.11	-0.07	0	0	0	0	0	0
5/10/2024 22:00	65604	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:00	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:00	15203	SFAR_T2	0	0	0	0	0	0	-1.4	-1.31	0	0	0	0	0	0
5/10/2024 22:00	65601	QVIL_T2	0	86	86	0	0.19	0.19	-1.24	-0.95	1	1	0	900	900	0
5/10/2024 22:00	67703	WERN_T2	0	0	0	0	0	0	-0.3	-0.53	1	1	0	900	900	0
5/10/2024 22:00	24105	EHAZ_T1	4	4	0	6.28	5.5	-0.78	0	0	0	0	0	0	0	0
5/10/2024 22:00	43802	SWIL_T1	0	0	0	0	0	0	-0.14	-0.13	1	1	0	600	600	0
5/10/2024 22:00	46504	LOHA_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
5/10/2024 22:00	24102	EHAZ_T1	4	1	-3	0.35	0	-0.35	0.25	0.25	0	0	0	0	0	0
5/10/2024 22:00	46506	LOHA_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/10/2024 22:00	62601	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:00	62605	ENGL_T1	0	30	30	0	0.17	0.17	0	0	0	0	0	0	0	0
5/10/2024 22:00	65603	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:00	62604	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:00	65602	QVIL_T2	0	6	6	0	0.23	0.23	0	0	0	0	0	0	0	0
5/10/2024 22:00	45902	AUBU_T1	0	0	0	0	0	0	-1.29	-0.67	1	0	-1	600	0	-600
5/10/2024 22:01	50502	MECH_T1	1	1	0	2.5	2.3	-0.2	0	0	0	0	0	0	0	0
5/10/2024 22:01	66203	SISP_T2	0	0	0	0	0	0	-1.44	-1.26	1	1	0	1200	1200	0
5/10/2024 22:01	50501	MECH_T1	4	4	0	1.98	1.6	-0.38	0	0	0	0	0	0	0	0
5/10/2024 22:01	50506	MECH_T1	0	0	0	0	0	0	-0.15	-0.36	0	0	0	0	0	0
5/10/2024 22:01	64503	LAVI_T1	0	0	0	0	0	0	-0.56	-0.5	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/10/2024 22:01	65602	QVIL_T2	0	6	6	0	0.23	0.23	0	0	0	0	0	0	0	0
5/10/2024 22:01	65604	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:01	58003	WCAR_T1	60	39	-21	0.35	0.22	-0.13	0.58	0.58	0	0	0	0	0	0
5/10/2024 22:01	65603	QVIL_T2	0	1	1	0	0.1	0.1	0.07	0.13	0	0	0	0	0	0
5/10/2024 22:01	58001	WCAR_T1	11	4	-7	0.79	1.55	0.76	0	0	0	0	0	0	0	0
5/10/2024 22:01	61303	EARL_T1	0	0	0	0	0	0	0.18	0.44	0	0	0	0	0	0
5/10/2024 22:01	59301	MCAL_T1	89	103	14	1.03	0.9	-0.13	-1.2	-1.17	0	0	0	0	0	0
5/10/2024 22:01	45902	AUBU_T1	0	0	0	0	0	0	-1.29	-0.67	1	0	-1	600	0	-600
5/10/2024 22:01	64501	LAVI_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 22:01	64502	LAVI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 22:01	61304	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 22:01	59302	MCAL_T1	2	4	2	1.6	0.85	-0.75	0	0	0	0	0	0	0	0
5/10/2024 22:01	16301	ALPA_T1	11	160	149	0.17	0.17	0	-0.49	-0.2	0	0	0	0	0	0
5/10/2024 22:01	65601	QVIL_T2	0	86	86	0	0.19	0.19	0	0	0	0	0	0	0	0
5/10/2024 22:01	50504	MECH_T1	26	0	-26	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/10/2024 22:01	56501	ROCK_T2	2	3	1	0.55	0.5	-0.05	-0.01	-0.01	0	0	0	0	0	0
5/10/2024 22:01	67702	WERN_T2	0	0	0	0	0	0	-0.06	-0.02	0	0	0	0	0	0
5/10/2024 22:02	54204	PENN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:02	21204	ECAR_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/10/2024 22:02	46504	LOHA_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
5/10/2024 22:02	54202	PENN_T2	0	0	0	0	0	0	0.32	-0.05	0	0	0	0	0	0
5/10/2024 22:02	67703	WERN_T2	0	0	0	0	0	0	-0.3	-0.53	1	1	0	900	900	0
5/10/2024 22:02	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:02	59202	THOM_T1	854	779	-75	1.41	1.03	-0.38	0	0	0	0	0	0	0	0
5/10/2024 22:02	64502	LAVI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 22:02	46506	LOHA_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/10/2024 22:02	62605	ENGL_T1	0	30	30	0	0.17	0.17	-0.9	-0.91	0	0	0	0	0	0
5/10/2024 22:02	51108	CARL_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
5/10/2024 22:02	17401	FOHI_T1	0	0	0	0	0	0	-1.08	-1.05	0	0	0	0	0	0
5/10/2024 22:02	57203	ROSS_T1	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
5/10/2024 22:02	46401	FLEM_T2	6	6	0	0.15	0.15	0	0.37	0.43	0	0	0	0	0	0
5/10/2024 22:02	47502	NECO_T1	51	60	9	0.27	0.29	0.02	0.66	0.68	0	0	0	0	0	0
5/10/2024 22:02	58003	WCAR_T1	60	39	-21	0.35	0.22	-0.13	0.58	0.58	0	0	0	0	0	0
5/10/2024 22:02	56801	BENV_T1	29	22	-7	0.98	0.88	-0.1	0	0	0	0	0	0	0	0
5/10/2024 22:02	45902	AUBU_T1	0	0	0	0	0	0	-1.29	-0.67	1	0	-1	600	0	-600
5/10/2024 22:02	55001	NEWP_T1	9	0	-9	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/10/2024 22:02	59201	THOM_T1	131	107	-24	0.97	0.67	-0.3	0	0	0	0	0	0	0	0
5/10/2024 22:02	64501	LAVI_T1	4	0	-4	0.1	0	-0.1	-0.45	-0.43	0	0	0	0	0	0
5/10/2024 22:02	56803	BENV_T1	196	150	-46	0.82	0.24	-0.58	-0.08	-0.09	1	1	0	600	600	0
5/10/2024 22:02	62601	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:02	46503	LOHA_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
5/10/2024 22:02	51102	CARL_T1	86	89	3	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
5/10/2024 22:02	55002	NEWP_T1	6	5	-1	1.35	1	-0.35	-0.54	-0.56	0	0	0	0	0	0
5/10/2024 22:02	21206	ECAR_T2	1	1	0	8	8	0	-0.28	-0.27	0	0	0	0	0	0
5/10/2024 22:02	62604	ENGL_T1	0	2	2	0	0.1	0.1	-0.5	0.18	1	0	-1	600	0	-600
5/10/2024 22:02	58001	WCAR_T1	11	4	-7	0.79	1.55	0.76	0	0	0	0	0	0	0	0
5/10/2024 22:02	46402	FLEM_T2	17	14	-3	0.1	0.1	0	0	0	0	0	0	0	0	0
5/10/2024 22:02	62607	ENGL_T1	0	182	182	0	0.17	0.17	0	0	0	0	0	0	0	0
5/10/2024 22:03	24501	GOUL_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/10/2024 22:03	59301	MCAL_T1	89	103	14	1.03	0.9	-0.13	-1.2	-1.17	0	0	0	0	0	0
5/10/2024 22:03	55003	NEWP_T2	9	11	2	0.56	0.54	-0.02	-0.2	-0.27	0	0	0	0	0	0
5/10/2024 22:03	46506	LOHA_T1	1	1	0	0.7	0.5	-0.2	-0.49	-0.47	0	0	0	0	0	0
5/10/2024 22:03	59302	MCAL_T1	2	4	2	1.6	0.85	-0.75	0	0	0	0	0	0	0	0
5/10/2024 22:03	15001	BLMO_T1	4	4	0	0.18	0.7	0.52	0	0	0	0	0	0	0	0
5/10/2024 22:03	10801	CHHI_T1	0	0	0	0	0	0	-0.99	-0.99	1	1	0	900	900	0
5/10/2024 22:03	46504	LOHA_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
5/10/2024 22:03	11601	CEAL_T1	0	8	8	0	0.1	0.1	0	0	1	1	0	1200	1200	0
5/10/2024 22:04	42002	MNVL_T2	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
5/10/2024 22:04	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.24	0	0	0	0	0	0
5/10/2024 22:04	42001	MNVL_T2	0	2	2	0	0.15	0.15	-0.01	-0.01	0	0	0	0	0	0
5/10/2024 22:04	42902	MIDD_T2	0	0	0	0	0	0	-2.49	-2.8	2	2	0	1200	1200	0
5/10/2024 22:04	44501	HAMI_T2	0	18	18	0	0.14	0.14	0	0	0	0	0	0	0	0
5/10/2024 22:04	44503	HAMI_T2	0	0	0	0	0	0	-1.79	-1.78	1	1	0	1200	1200	0
5/10/2024 22:04	51102	CARL_T1	86	89	3	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
5/10/2024 22:04	62601	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:04	67401	WAKE_T2	0	57	57	0	0.23	0.23	0	0	0	0	0	0	0	0
5/10/2024 22:04	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:04	51109	CARL_T1	0	0	0	0	0	0	0.27	-1	0	1	1	0	1200	1200
5/10/2024 22:04	62605	ENGL_T1	0	30	30	0	0.17	0.17	0	0	0	0	0	0	0	0
5/10/2024 22:04	62607	ENGL_T1	0	182	182	0	0.17	0.17	-1.2	-1.22	1	1	0	300	300	0
5/10/2024 22:04	14603	SWHI_T1	0	0	0	0	0	0	-1.08	-1.7	1	2	1	600	1200	600
5/10/2024 22:04	64901	MILL_T1	0	63	63	0	0.3	0.3	0	0	0	0	0	0	0	0
5/10/2024 22:04	44502	HAMI_T2	1	1	0	3.3	3.6	0.3	0	0	0	0	0	0	0	0
5/10/2024 22:04	58003	WCAR_T1	60	39	-21	0.35	0.22	-0.13	0.58	0.58	0	0	0	0	0	0
5/10/2024 22:04	42903	MIDD_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
5/10/2024 22:04	47401	PENS_T1	0	0	0	0	0	0	0.62	0.58	0	0	0	0	0	0
5/10/2024 22:04	62604	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:04	64904	MILL_T1	0	8	8	0	0.19	0.19	0.4	0.64	0	0	0	0	0	0
5/10/2024 22:04	58001	WCAR_T1	11	4	-7	0.79	1.55	0.76	0	0	0	0	0	0	0	0
5/10/2024 22:04	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/10/2024 22:05	42903	MIDD_T2	2	2	0	0.4	0.45	0.05	-0.32	-0.4	0	0	0	0	0	0
5/10/2024 22:05	50201	HARR_T3	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
5/10/2024 22:05	65401	MARI_T1	9	0	-9	0.1	0	-0.1	0.26	0.61	0	0	0	0	0	0
5/10/2024 22:05	65702	RVIL_T2	0	0	0	0	0	0	-1.11	-1.04	1	1	0	600	600	0
5/10/2024 22:05	59202	THOM_T1	854	779	-75	1.41	1.03	-0.38	0	0	0	0	0	0	0	0
5/10/2024 22:05	59201	THOM_T1	131	107	-24	0.97	0.67	-0.3	0	0	0	0	0	0	0	0
5/10/2024 22:05	50102	HARR_T3	7	0	-7	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/10/2024 22:05	64501	LAVI_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 22:05	50103	HARR_T3	2	2	0	0.6	0.35	-0.25	-1.05	-0.82	1	1	0	1200	1200	0
5/10/2024 22:05	45902	AUBU_T1	0	0	0	0	0	0	-1.29	-0.67	1	0	-1	600	0	-600
5/10/2024 22:05	64701	LITI_T1	0	0	0	0	0	0	0.05	0.44	0	0	0	0	0	0
5/10/2024 22:05	64503	LAVI_T1	0	0	0	0	0	0	-0.56	-0.5	1	1	0	1200	1200	0
5/10/2024 22:05	64502	LAVI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 22:05	50202	HARR_T3	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/10/2024 22:05	50105	HARR_T3	6	6	0	5.62	5.85	0.23	0	0	0	0	0	0	0	0
5/10/2024 22:05	45901	AUBU_T1	0	0	0	0	0	0	1.76	1.71	0	0	0	0	0	0
5/10/2024 22:06	65603	QVIL_T2	0	1	1	0	0.1	0.1	0.07	0.13	0	0	0	0	0	0
5/10/2024 22:06	64502	LAVI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 22:06	64501	LAVI_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 22:06	50103	HARR_T3	2	2	0	0.6	0.35	-0.25	-1.05	-0.82	1	1	0	1200	1200	0
5/10/2024 22:06	65604	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:06	50105	HARR_T3	6	6	0	5.62	5.85	0.23	0	0	0	0	0	0	0	0
5/10/2024 22:06	50201	HARR_T3	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
5/10/2024 22:06	65602	QVIL_T2	0	6	6	0	0.23	0.23	0	0	0	0	0	0	0	0
5/10/2024 22:06	56501	ROCK_T2	2	3	1	0.55	0.5	-0.05	-0.01	-0.01	0	0	0	0	0	0
5/10/2024 22:06	65601	QVIL_T2	0	86	86	0	0.19	0.19	0	0	0	0	0	0	0	0
5/10/2024 22:06	29401	BELT_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
5/10/2024 22:06	50202	HARR_T3	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/10/2024 22:06	65401	MARI_T1	9	0	-9	0.1	0	-0.1	0.26	0.61	0	0	0	0	0	0
5/10/2024 22:06	64503	LAVI_T1	0	0	0	0	0	0	-0.56	-0.5	1	1	0	1200	1200	0
5/10/2024 22:06	50102	HARR_T3	7	0	-7	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/10/2024 22:06	29402	BELT_T1	276	247	-29	1.23	1.1	-0.13	0	0	0	0	0	0	0	0
5/10/2024 22:06	13704	SCHN_T2	0	4	4	0	0.13	0.13	-0.46	-0.45	0	0	0	0	0	0
5/10/2024 22:07	62604	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:07	59001	MIFF_T1	28	0	-28	0.21	0	-0.21	0	0	0	0	0	0	0	0
5/10/2024 22:07	56501	ROCK_T2	2	3	1	0.55	0.5	-0.05	-0.01	-0.01	0	0	0	0	0	0
5/10/2024 22:07	67503	WEWI_T2	0	0	0	0	0	0	0.46	0.86	0	0	0	0	0	0
5/10/2024 22:07	63305	GREE_T1	3	64	61	0.17	0.23	0.06	0	0	0	0	0	0	0	0
5/10/2024 22:07	56803	BENV_T1	196	150	-46	0.82	0.24	-0.58	-0.08	-0.09	1	1	0	600	600	0
5/10/2024 22:07	60605	NCOL_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
5/10/2024 22:07	44501	HAMI_T2	0	18	18	0	0.14	0.14	0	0	0	0	0	0	0	0
5/10/2024 22:07	66502	SMAN_T2	0	0	0	0	0	0	-0.1	-0.79	0	0	0	0	0	0
5/10/2024 22:07	45303	WBER_T2	7	8	1	0.26	0.54	0.28	-0.3	-0.23	0	0	0	0	0	0
5/10/2024 22:07	59102	WALK_T2	160	87	-73	0.91	0.86	-0.05	0	0	0	0	0	0	0	0
5/10/2024 22:07	28703	HAML_T2	3	3	0	0.2	0.87	0.67	0	0	0	0	0	0	0	0
5/10/2024 22:07	65401	MARI_T1	9	0	-9	0.1	0	-0.1	0.26	0.61	0	0	0	0	0	0
5/10/2024 22:07	63306	GREE_T1	0	0	0	0	0	0	-1.17	-1.05	0	0	0	0	0	0
5/10/2024 22:07	60502	NMAN_T2	2	0	-2	0.1	0	-0.1	-0.61	-0.05	0	0	0	0	0	0
5/10/2024 22:07	40901	JESH_T1	29	52	23	0.16	0.21	0.05	0	0	0	0	0	0	0	0
5/10/2024 22:07	63304	GREE_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:07	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:07	67502	WEWI_T2	0	48	48	0	0.15	0.15	0	0	0	0	0	0	0	0
5/10/2024 22:07	44503	HAMI_T2	0	0	0	0	0	0	-1.79	-1.78	1	1	0	1200	1200	0
5/10/2024 22:07	60501	NMAN_T2	15	3	-12	1.16	5	3.84	0	0	0	0	0	0	0	0
5/10/2024 22:07	65702	RVIL_T2	0	0	0	0	0	0	-1.11	-1.04	1	1	0	600	600	0
5/10/2024 22:07	50504	MECH_T1	0	0	0	0	0	0	-0.15	-0.36	0	0	0	0	0	0
5/10/2024 22:07	40902	JESH_T1	11	27	16	0.12	0.14	0.02	-0.86	-0.86	0	0	0	0	0	0
5/10/2024 22:07	62607	ENGL_T1	0	182	182	0	0.17	0.17	-1.2	-1.22	1	1	0	300	300	0
5/10/2024 22:07	59201	THOM_T1	131	107	-24	0.97	0.67	-0.3	0	0	0	0	0	0	0	0
5/10/2024 22:07	50502	MECH_T1	1	1	0	2.5	2.3	-0.2	0	0	0	0	0	0	0	0
5/10/2024 22:07	62605	ENGL_T1	0	30	30	0	0.17	0.17	0	0	0	0	0	0	0	0
5/10/2024 22:07	28704	HAML_T2	0	1	1	0	0.5	0.5	-0.01	-0.01	0	0	0	0	0	0
5/10/2024 22:07	59002	MIFF_T1	27	6	-21	0.34	0.8	0.46	0	0	0	0	0	0	0	0
5/10/2024 22:07	50501	MECH_T1	4	4	0	1.98	1.6	-0.38	0	0	0	0	0	0	0	0
5/10/2024 22:07	59202	THOM_T1	854	779	-75	1.41	1.03	-0.38	0	0	0	0	0	0	0	0
5/10/2024 22:07	56801	BENV_T1	29	22	-7	0.98	0.88	-0.1	0	0	0	0	0	0	0	0
5/10/2024 22:07	40903	JESH_T1	3	16	13	0.1	0.11	0.01	0	0	0	0	0	0	0	0
5/10/2024 22:07	62601	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:07	44502	HAMI_T2	1	1	0	3.3	3.6	0.3	0	0	0	0	0	0	0	0
5/10/2024 22:07	66505	SMAN_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
5/10/2024 22:07	59003	MIFF_T1	1	1	0	1.2	1.1	-0.1	1.19	1.2	0	0	0	0	0	0
5/10/2024 22:07	29401	BELT_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
5/10/2024 22:07	50504	MECH_T1	26	0	-26	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/10/2024 22:07	29402	BELT_T1	276	247	-29	1.23	1.1	-0.13	0	0	0	0	0	0	0	0
5/10/2024 22:07	59101	WALK_T2	27	3	-24	0.37	0.23	-0.14	-0.04	0.01	0	0	0	0	0	0
5/10/2024 22:08	60502	NMAN_T2	2	0	-2	0.1	0	-0.1	-0.05	-0.73	0	0	0	0	0	0
5/10/2024 22:08	21206	ECAR_T2	1	1	0	8	8	0	-0.28	-0.27	0	0	0	0	0	0
5/10/2024 22:08	47001	HUGH_T2	3	17	14	0.27	0.25	-0.02	-0.96	-0.98	0	0	0	0	0	0
5/10/2024 22:08	21204	ECAR_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/10/2024 22:08	23403	HONE_T1	0	4	4	0	0.1	0.1	-0.84	-0.85	0	0	0	0	0	0
5/10/2024 22:08	46503	LOHA_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
5/10/2024 22:08	45602	WOOL_T1	2	2	0	0.35	0.4	0.05	0.42	0.41	0	0	0	0	0	0
5/10/2024 22:08	57203	ROSS_T1	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/10/2024 22:08	66502	SMAN_T2	0	0	0	0	0	0	-0.79	-0.05	0	0	0	0	0	0
5/10/2024 22:08	66505	SMAN_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
5/10/2024 22:08	46504	LOHA_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
5/10/2024 22:08	46506	LOHA_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/10/2024 22:08	60501	NMAN_T2	15	3	-12	1.16	5	3.84	0	0	0	0	0	0	0	0
5/10/2024 22:09	60605	NCOL_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
5/10/2024 22:09	64502	LAVI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 22:09	46801	HEPB_T2	2	2	0	0.65	0.8	0.15	0	0	0	0	0	0	0	0
5/10/2024 22:09	62604	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:09	46803	HEPB_T2	0	1	1	0	0.1	0.1	0.47	0.44	0	0	0	0	0	0
5/10/2024 22:09	50506	MECH_T1	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
5/10/2024 22:09	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:09	67504	WEWI_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
5/10/2024 22:09	67505	WEWI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:09	50501	MECH_T1	4	4	0	1.98	1.6	-0.38	0	0	0	0	0	0	0	0
5/10/2024 22:09	64501	LAVI_T1	4	0	-4	0.1	0	-0.1	-0.43	-0.42	0	0	0	0	0	0
5/10/2024 22:09	62607	ENGL_T1	0	182	182	0	0.17	0.17	-1.22	-0.87	1	0	-1	300	0	-300
5/10/2024 22:09	47401	PENS_T1	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
5/10/2024 22:09	62601	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:09	67501	WEWI_T1	0	16	16	0	0.14	0.14	0	0	0	0	0	0	0	0
5/10/2024 22:09	50502	MECH_T1	1	1	0	2.5	2.3	-0.2	0	0	0	0	0	0	0	0
5/10/2024 22:09	62605	ENGL_T1	0	30	30	0	0.17	0.17	0	0	0	0	0	0	0	0
5/10/2024 22:09	50504	MECH_T1	26	0	-26	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/10/2024 22:10	62601	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:10	59302	MCAL_T1	2	4	2	1.6	0.85	-0.75	-0.44	-0.45	1	1	0	600	600	0
5/10/2024 22:10	62604	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:10	41205	KENM_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
5/10/2024 22:10	66504	SMAN_T2	0	0	0	0	0	0	-1.38	-0.65	1	0	-1	1200	0	-1200
5/10/2024 22:10	51102	CARL_T1	86	89	3	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
5/10/2024 22:10	41202	KENM_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:10	66505	SMAN_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
5/10/2024 22:10	64501	LAVI_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 22:10	64503	LAVI_T1	0	0	0	0	0	0	-0.5	-0.6	1	1	0	1200	1200	0
5/10/2024 22:10	66502	SMAN_T2	0	0	0	0	0	0	-0.79	-0.05	0	0	0	0	0	0
5/10/2024 22:10	59301	MCAL_T1	89	103	14	1.03	0.9	-0.13	0	0	0	0	0	0	0	0
5/10/2024 22:10	61503	EPET_T1	0	0	0	0	0	0	-1.1	-1.28	0	0	0	0	0	0
5/10/2024 22:10	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:10	51107	CARL_T1	0	0	0	0	0	0	-0.14	-0.31	0	0	0	0	0	0
5/10/2024 22:10	65702	RVIL_T2	0	0	0	0	0	0	-1.04	-1.12	1	1	0	600	600	0
5/10/2024 22:10	62607	ENGL_T1	0	182	182	0	0.17	0.17	0	0	0	0	0	0	0	0
5/10/2024 22:10	61502	EPET_T1	0	21	21	0	0.13	0.13	0	0	0	0	0	0	0	0
5/10/2024 22:10	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 22:10	62605	ENGL_T1	0	30	30	0	0.17	0.17	-0.91	-0.91	0	0	0	0	0	0
5/10/2024 22:10	64502	LAVI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 22:11	66001	RHEE_T2	0	0	0	0	0	0	0.53	0.15	0	0	0	0	0	0
5/10/2024 22:11	62604	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:11	63304	GREE_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:11	50502	MECH_T1	1	1	0	2.5	2.3	-0.2	0	0	0	0	0	0	0	0
5/10/2024 22:11	42903	MIDD_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
5/10/2024 22:11	45901	AUBU_T1	0	0	0	0	0	0	1.71	1.65	0	0	0	0	0	0
5/10/2024 22:11	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:11	66502	SMAN_T2	0	0	0	0	0	0	-1.58	-0.1	0	0	0	0	0	0
5/10/2024 22:11	62601	ENGL_T1	0	1	1	0	0.1	0.1	-0.23	-0.23	0	0	0	0	0	0
5/10/2024 22:11	62607	ENGL_T1	0	182	182	0	0.17	0.17	0	0	0	0	0	0	0	0
5/10/2024 22:11	64501	LAVI_T1	4	0	-4	0.1	0	-0.1	-0.43	-0.42	0	0	0	0	0	0
5/10/2024 22:11	50506	MECH_T1	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
5/10/2024 22:11	52004	LING_T2	1	1	0	0.4	0.3	-0.1	0.12	0.16	0	0	0	0	0	0
5/10/2024 22:11	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 22:11	52006	LING_T2	3	3	0	1.07	1.1	0.03	0	0	0	0	0	0	0	0
5/10/2024 22:11	52002	LING_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
5/10/2024 22:11	64502	LAVI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 22:11	66505	SMAN_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
5/10/2024 22:11	62605	ENGL_T1	0	30	30	0	0.17	0.17	0	0	0	0	0	0	0	0
5/10/2024 22:11	42902	MIDD_T2	0	0	0	0	0	0	-1.4	-1.43	1	1	0	600	600	0
5/10/2024 22:11	62102	ELAN_T1	0	0	0	0	0	0	0.74	0.54	0	0	0	0	0	0
5/10/2024 22:11	23203	HIRU_T2	0	0	0	0	0	0	-0.04	0.05	0	0	0	0	0	0
5/10/2024 22:11	50504	MECH_T1	26	0	-26	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/10/2024 22:11	50501	MECH_T1	4	4	0	1.98	1.6	-0.38	0	0	0	0	0	0	0	0
5/10/2024 22:11	65901	SAKR_T2	1	1	0	8.8	9.2	0.4	-1.3	-1.54	1	1	0	900	900	0
5/10/2024 22:11	20401	ASHF_T2	15	2	-13	0.3	0.55	0.25	-0.48	-0.43	0	0	0	0	0	0
5/10/2024 22:11	63305	GREE_T1	3	64	61	0.17	0.23	0.06	-1.45	-1.43	0	0	0	0	0	0
5/10/2024 22:12	50502	MECH_T1	1	1	0	2.5	2.3	-0.2	0	0	0	0	0	0	0	0
5/10/2024 22:12	64503	LAVI_T1	0	0	0	0	0	0	-1	-1.2	2	2	0	2400	2400	0
5/10/2024 22:12	53903	HALI_T2	2	2	0	1.6	1.2	-0.4	0	0	0	0	0	0	0	0
5/10/2024 22:12	61702	ELIZ_T2	0	0	0	0	0	0	-0.95	-1.03	1	1	0	300	300	0
5/10/2024 22:12	61704	ELIZ_T2	5	0	-5	0.42	0	-0.42	0	0	0	0	0	0	0	0
5/10/2024 22:12	64904	MILL_T1	0	8	8	0	0.19	0.19	0.64	0.43	0	0	0	0	0	0
5/10/2024 22:12	66502	SMAN_T2	0	0	0	0	0	0	-1.58	-0.1	0	0	0	0	0	0
5/10/2024 22:12	65702	RVIL_T2	0	0	0	0	0	0	-1.04	-1.12	1	1	0	600	600	0
5/10/2024 22:12	53902	HALI_T2	1	1	0	6	5.3	-0.7	0	0	0	0	0	0	0	0
5/10/2024 22:12	63304	GREE_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:12	63602	LETO_T1	103	47	-56	0.21	0.12	-0.09	-0.48	-0.54	0	0	0	0	0	0
5/10/2024 22:12	53901	HALI_T2	1	1	0	0.8	0.3	-0.5	-1.05	-1.03	0	0	0	0	0	0
5/10/2024 22:12	61703	ELIZ_T1	0	0	0	0	0	0	-2.44	-2.65	2	2	0	2100	2100	0
5/10/2024 22:12	64501	LAVI_T1	4	0	-4	0.1	0	-0.1	-0.43	-0.42	0	0	0	0	0	0
5/10/2024 22:12	64502	LAVI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 22:12	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 22:12	50504	MECH_T1	26	0	-26	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/10/2024 22:12	61501	EPET_T2	1	1	0	5.3	5	-0.3	0	0	0	0	0	0	0	0
5/10/2024 22:12	61506	EPET_T2	0	0	0	0	0	0	-1.22	-1.36	1	1	0	900	900	0
5/10/2024 22:12	50501	MECH_T1	4	4	0	1.98	1.6	-0.38	0	0	0	0	0	0	0	0
5/10/2024 22:12	64901	MILL_T1	0	63	63	0	0.3	0.3	0	0	0	0	0	0	0	0
5/10/2024 22:12	50506	MECH_T1	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
5/10/2024 22:12	61701	ELIZ_T1	1	1	0	4	5.8	1.8	0.08	0.15	0	0	0	0	0	0
5/10/2024 22:12	63305	GREE_T1	3	64	61	0.17	0.23	0.06	-1.45	-1.43	0	0	0	0	0	0
5/10/2024 22:12	66505	SMAN_T2	3	0	-3	0.37	0	-0.37	0.04	-0.27	1	1	0	900	900	0
5/10/2024 22:12	66504	SMAN_T2	0	0	0	0	0	0	-1.38	-0.65	1	0	-1	1200	0	-1200
5/10/2024 22:13	46504	LOHA_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
5/10/2024 22:13	43302	WATS_T2	4	4	0	0.7	0.28	-0.42	0	0	0	0	0	0	0	0
5/10/2024 22:13	42902	MIDD_T2	0	0	0	0	0	0	-2.8	-2.86	2	2	0	1200	1200	0
5/10/2024 22:13	67505	WEWI_T1	0	1	1	0	0.1	0.1	-0.04	-0.35	1	1	0	900	900	0
5/10/2024 22:13	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 22:13	25501	MADI_T1	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/10/2024 22:13	66504	SMAN_T2	0	0	0	0	0	0	-1.38	-0.65	1	0	-1	1200	0	-1200
5/10/2024 22:13	41801	GOCI_T2	26	20	-6	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
5/10/2024 22:13	61801	EELI_T2	1	1	0	0.2	0.4	0.2	-0.73	-1.1	1	1	0	600	600	0
5/10/2024 22:13	67501	WEWI_T1	0	16	16	0	0.14	0.14	0	0	0	0	0	0	0	0
5/10/2024 22:13	46506	LOHA_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/10/2024 22:13	64901	MILL_T1	0	63	63	0	0.3	0.3	0	0	0	0	0	0	0	0
5/10/2024 22:13	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
5/10/2024 22:13	43102	SMIL_T2	6	6	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
5/10/2024 22:13	42903	MIDD_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
5/10/2024 22:13	61703	ELIZ_T1	0	0	0	0	0	0	-2.44	-2.65	2	2	0	2100	2100	0
5/10/2024 22:13	61701	ELIZ_T1	1	1	0	4	5.8	1.8	0	0	0	0	0	0	0	0
5/10/2024 22:13	25503	MADI_T1	127	355	228	0.35	0.45	0.1	-1.01	-1.04	0	0	0	0	0	0
5/10/2024 22:13	65702	RVIL_T2	0	0	0	0	0	0	-1.04	-1.12	1	1	0	600	600	0
5/10/2024 22:13	64904	MILL_T1	0	8	8	0	0.19	0.19	0.64	0.43	0	0	0	0	0	0
5/10/2024 22:13	45303	WBER_T2	7	8	1	0.26	0.54	0.28	-0.23	-0.3	0	0	0	0	0	0
5/10/2024 22:13	67703	WERN_T2	0	0	0	0	0	0	-0.53	-0.33	1	1	0	900	900	0
5/10/2024 22:13	64801	MONE_T2	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
5/10/2024 22:13	24204	PROV_T3	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
5/10/2024 22:13	64802	MONE_T2	0	2	2	0	0.1	0.1	0.42	0.24	0	0	0	0	0	0
5/10/2024 22:13	24201	PROV_T3	1	1	0	7.4	6	-1.4	-1.57	-1.63	1	1	0	1200	1200	0
5/10/2024 22:13	43104	SMIL_T2	0	0	0	0	0	0	-0.89	-0.88	1	1	0	300	300	0
5/10/2024 22:13	43103	SMIL_T2	22	22	0	1.14	1.1	-0.04	0	0	0	0	0	0	0	0
5/10/2024 22:13	43301	WATS_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/10/2024 22:13	66505	SMAN_T2	3	0	-3	0.37	0	-0.37	0.04	-0.27	1	1	0	900	900	0
5/10/2024 22:13	43105	SMIL_T2	13	16	3	0.25	0.33	0.08	0	0	0	0	0	0	0	0
5/10/2024 22:14	45501	DERR_T2	2	0	-2	0.4	0	-0.4	-0.41	-0.43	2	2	0	1800	1800	0
5/10/2024 22:14	44801	EDAN_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/10/2024 22:14	62607	ENGL_T1	0	182	182	0	0.17	0.17	0	0	0	0	0	0	0	0
5/10/2024 22:14	60605	NCOL_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
5/10/2024 22:14	62601	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:14	65903	SAKR_T2	0	0	0	0	0	0	-1.18	-1.38	3	3	0	2100	2100	0
5/10/2024 22:14	66001	RHEE_T2	0	0	0	0	0	0	0.53	0.15	0	0	0	0	0	0
5/10/2024 22:14	58401	MORO_T1	0	0	0	0	0	0	-0.42	-0.49	2	2	0	1500	1500	0
5/10/2024 22:14	47401	PENS_T1	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
5/10/2024 22:14	44802	EDAN_T2	0	0	0	0	0	0	-2.28	-2.3	0	0	0	0	0	0
5/10/2024 22:14	62604	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:14	65901	SAKR_T2	1	1	0	8.8	9.2	0.4	0	0	0	0	0	0	0	0
5/10/2024 22:14	45902	AUBU_T1	0	0	0	0	0	0	-0.67	-0.63	0	0	0	0	0	0
5/10/2024 22:14	62605	ENGL_T1	0	30	30	0	0.17	0.17	-0.91	-0.91	0	0	0	0	0	0
5/10/2024 22:14	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:14	64902	MILL_T2	0	0	0	0	0	0	-0.43	0.21	0	0	0	0	0	0
5/10/2024 22:15	42201	SHEN_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
5/10/2024 22:15	66202	SISP_T2	0	0	0	0	0	0	-0.62	-0.9	0	0	0	0	0	0
5/10/2024 22:15	47001	HUGH_T2	3	17	14	0.57	0.25	-0.32	-0.98	-1	0	0	0	0	0	0
5/10/2024 22:16	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/10/2024 22:16	21204	ECAR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/10/2024 22:16	21206	ECAR_T2	1	1	0	8	7.2	-0.8	-0.27	1	0	0	0	0	0	0
5/10/2024 22:16	61703	ELIZ_T1	0	0	0	0	0	0	-2.44	-2.65	2	2	0	2100	2100	0
5/10/2024 22:16	63801	HEMP_T1	13	0	-13	0.12	0	-0.12	0.52	-0.33	0	0	0	0	0	0
5/10/2024 22:16	63804	HEMP_T1	5	1	-4	1.12	5.2	4.08	0	0	0	0	0	0	0	0
5/10/2024 22:16	40701	FFLD_T1	74	77	3	0.54	0.66	0.12	0	0	0	0	0	0	0	0
5/10/2024 22:16	20603	GRWO_T2	0	6	6	0	0.12	0.12	0.26	0.25	0	0	0	0	0	0
5/10/2024 22:16	63803	HEMP_T1	24	0	-24	0.12	0	-0.12	0.68	0.5	0	0	0	0	0	0
5/10/2024 22:16	40702	FFLD_T1	182	207	25	0.49	0.6	0.11	-0.96	-1.01	1	1	0	1200	1200	0
5/10/2024 22:16	66503	SMAN_T2	0	0	0	0	0	0	0.62	0.29	0	0	0	0	0	0
5/10/2024 22:16	61701	ELIZ_T1	1	1	0	4.7	5.8	1.1	0	0	0	0	0	0	0	0
5/10/2024 22:16	20601	GRWO_T2	8	73	65	0.14	0.21	0.07	0	0	0	0	0	0	0	0
5/10/2024 22:16	40703	FFLD_T1	4	4	0	0.53	0.8	0.27	0	0	0	0	0	0	0	0
5/10/2024 22:16	60605	NCOL_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
5/10/2024 22:17	45501	DERR_T2	0	0	0	0	0	0	-0.41	-0.43	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/10/2024 22:17	66001	RHEE_T2	0	0	0	0	0	0	1.06	0.29	0	0	0	0	0	0
5/10/2024 22:17	45303	WBER_T2	8	8	0	0.54	0.29	-0.25	-0.23	-0.3	0	0	0	0	0	0
5/10/2024 22:17	43801	SWIL_T1	16	38	22	0.61	0.35	-0.26	0	0	0	0	0	0	0	0
5/10/2024 22:17	57403	SPAN_T1	0	37	37	0	0.3	0.3	0.11	0.03	0	0	0	0	0	0
5/10/2024 22:17	57401	SPAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:17	43802	SWIL_T1	0	0	0	0	0	0	-0.13	-0.18	1	1	0	600	600	0
5/10/2024 22:17	64501	LAVI_T1	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
5/10/2024 22:18	42701	AUGU_T1	1	0	-1	0.1	0	-0.1	0	0	2	2	0	1800	1800	0
5/10/2024 22:18	66504	SMAN_T2	0	0	0	0	0	0	-1.38	-0.65	1	0	-1	1200	0	-1200
5/10/2024 22:18	61703	ELIZ_T1	0	0	0	0	0	0	-2.44	-2.65	2	2	0	2100	2100	0
5/10/2024 22:18	44601	SALE_T2	1	0	-1	0.5	0	-0.5	-0.13	-0.24	0	0	0	0	0	0
5/10/2024 22:18	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 22:18	62607	ENGL_T1	0	182	182	0	0.17	0.17	0	0	0	0	0	0	0	0
5/10/2024 22:18	59001	MIFF_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/10/2024 22:18	62605	ENGL_T1	0	30	30	0	0.17	0.17	0	0	0	0	0	0	0	0
5/10/2024 22:18	45402	WBLO_T2	1	1	0	0.8	1.2	0.4	-0.91	-0.91	0	0	0	0	0	0
5/10/2024 22:18	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:18	26002	WDAM_T1	3	6	3	0.27	0.65	0.38	0	0	0	0	0	0	0	0
5/10/2024 22:18	40602	PIGR_T1	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
5/10/2024 22:18	55001	NEWP_T1	0	0	0	0	0	0	-0.27	-0.2	0	0	0	0	0	0
5/10/2024 22:18	40302	TAMA_T3	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/10/2024 22:18	49803	UNIV_T1	0	0	0	0	0	0	0.11	0.05	0	0	0	0	0	0
5/10/2024 22:18	40601	PIGR_T1	0	67	67	0	0.14	0.14	0	0	0	0	0	0	0	0
5/10/2024 22:18	61701	ELIZ_T1	1	1	0	4.7	5.8	1.1	0	0	0	0	0	0	0	0
5/10/2024 22:18	43302	WATS_T2	4	4	0	0.15	0.43	0.28	0	0	0	0	0	0	0	0
5/10/2024 22:18	46801	HEPB_T2	2	2	0	0.7	0.8	0.1	0.5	0.49	0	0	0	0	0	0
5/10/2024 22:18	60902	DONG_T2	0	0	0	0	0	0	1.04	0.46	0	0	0	0	0	0
5/10/2024 22:18	59202	THOM_T1	608	836	228	0.78	1.22	0.44	0	0	0	0	0	0	0	0
5/10/2024 22:18	40505	CRES_T1	3	3	0	5.63	5.93	0.3	0	0	0	0	0	0	0	0
5/10/2024 22:18	26001	WDAM_T1	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
5/10/2024 22:18	59201	THOM_T1	63	126	63	0.56	0.81	0.25	0	0	0	0	0	0	0	0
5/10/2024 22:18	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 22:18	44801	EDAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/10/2024 22:18	62601	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:18	62602	ENGL_T1	0	0	0	0	0	0	0.29	0.15	0	0	0	0	0	0
5/10/2024 22:18	59002	MIFF_T1	5	6	1	0.42	0.87	0.45	0	0	0	0	0	0	0	0
5/10/2024 22:18	62604	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:18	22602	KIMB_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
5/10/2024 22:18	59102	WALK_T2	75	130	55	0.46	0.81	0.35	0.29	0.3	0	0	0	0	0	0
5/10/2024 22:18	40504	CRES_T1	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
5/10/2024 22:18	46004	BERW_T2	0	0	0	0	0	0	-0.68	-0.65	0	0	0	0	0	0
5/10/2024 22:18	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/10/2024 22:18	59101	WALK_T2	0	35	35	0	0.24	0.24	0	0	0	0	0	0	0	0
5/10/2024 22:18	44802	EDAN_T2	0	0	0	0	0	0	-2.28	-2.3	0	0	0	0	0	0
5/10/2024 22:18	55002	NEWP_T1	4	6	2	1	0.98	-0.02	0	0	0	0	0	0	0	0
5/10/2024 22:18	59003	MIFF_T1	1	1	0	0.4	1.3	0.9	0.6	0.36	0	0	0	0	0	0
5/10/2024 22:19	23001	SAJO_T1	0	0	0	0	0	0	-0.31	0.11	0	0	0	0	0	0
5/10/2024 22:19	20601	GRWO_T2	8	73	65	0.14	0.21	0.07	0	0	0	0	0	0	0	0
5/10/2024 22:19	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 22:19	44802	EDAN_T2	0	0	0	0	0	0	-2.28	-2.3	0	0	0	0	0	0
5/10/2024 22:19	47401	PENS_T1	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
5/10/2024 22:19	42902	MIDD_T2	0	0	0	0	0	0	-1.4	-1.43	1	1	0	600	600	0
5/10/2024 22:19	40504	CRES_T1	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
5/10/2024 22:19	44801	EDAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/10/2024 22:19	40505	CRES_T1	3	3	0	5.63	5.93	0.3	0	0	0	0	0	0	0	0
5/10/2024 22:19	42201	SHEN_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
5/10/2024 22:19	20603	GRWO_T2	0	6	6	0	0.12	0.12	0.26	0.25	0	0	0	0	0	0
5/10/2024 22:19	61703	ELIZ_T1	0	0	0	0	0	0	-2.44	-2.65	2	2	0	2100	2100	0
5/10/2024 22:19	42903	MIDD_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
5/10/2024 22:19	61701	ELIZ_T1	1	1	0	4.7	5.8	1.1	0	0	0	0	0	0	0	0
5/10/2024 22:19	46004	BERW_T2	0	0	0	0	0	0	-0.68	-0.65	0	0	0	0	0	0
5/10/2024 22:19	47001	HUGH_T2	3	17	14	0.57	0.25	-0.32	-0.98	-1	0	0	0	0	0	0
5/10/2024 22:20	56501	ROCK_T2	2	3	1	0.5	0.57	0.07	-0.01	-0.01	0	0	0	0	0	0
5/10/2024 22:20	43202	MVIL_T2	163	180	17	0.66	0.89	0.23	0	0	0	0	0	0	0	0
5/10/2024 22:20	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 22:20	66001	RHEE_T2	0	0	0	0	0	0	0.53	0.15	0	0	0	0	0	0
5/10/2024 22:20	43201	MVIL_T2	0	2	2	0	0.15	0.15	-0.4	-0.43	0	0	0	0	0	0
5/10/2024 22:21	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 22:22	41801	GOCI_T2	0	20	20	0	0.14	0.14	0	0	0	0	0	0	0	0
5/10/2024 22:22	44802	EDAN_T2	0	0	0	0	0	0	-2.28	-2.3	0	0	0	0	0	0
5/10/2024 22:22	44801	EDAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/10/2024 22:22	40101	HUNT_T2	0	0	0	0	0	0	-0.74	-0.79	0	0	0	0	0	0
5/10/2024 22:22	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/10/2024 22:23	49804	UNIV_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
5/10/2024 22:23	42201	SHEN_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
5/10/2024 22:24	44802	EDAN_T2	0	0	0	0	0	0	-2.3	-2.3	0	0	0	0	0	0
5/10/2024 22:24	44801	EDAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/10/2024 22:25	44802	EDAN_T2	0	0	0	0	0	0	-2.3	-2.3	0	0	0	0	0	0
5/10/2024 22:25	44801	EDAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/10/2024 22:35	65702	RVIL_T2	0	0	0	0	0	0	-1.12	-1.11	1	1	0	600	600	0
5/10/2024 22:54	64702	LITI_T2	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
5/10/2024 23:01	64305	LINC_T1	0	0	0	0	0	0	-0.7	-0.74	0	0	0	0	0	0
5/10/2024 23:24	23203	HIRU_T2	0	0	0	0	0	0	0	-0.07	0	0	0	0	0	0
5/10/2024 23:24	23201	HIRU_T2	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/11/2024 2:02	50502	MECH_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
5/11/2024 2:02	50501	MECH_T1	4	4	0	1.43	1.55	0.12	-0.56	-0.54	0	0	0	0	0	0
5/11/2024 6:44	49804	UNIV_T1	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
5/11/2024 6:58	53502	EVIL_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
5/11/2024 6:58	53501	EVIL_T2	5	3	-2	0.66	0.83	0.17	0	0	0	0	0	0	0	0
5/11/2024 7:05	13807	SALI_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
5/11/2024 7:09	20102	AVOC_T1	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
5/11/2024 7:09	20103	AVOC_T1	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
5/11/2024 7:09	20105	AVOC_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
5/11/2024 7:18	12505	MITR_T2	0	0	0	0	0	0	0.22	0.11	0	0	0	0	0	0
5/11/2024 7:18	12502	MITR_T2	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
5/11/2024 7:28	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 7:28	10801	CHHI_T1	0	0	0	0	0	0	-0.99	-1.04	1	1	0	900	900	0
5/11/2024 7:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 7:37	54203	PENN_T1	18	18	0	0.38	0.47	0.09	0.57	0.58	0	0	0	0	0	0
5/11/2024 7:37	54201	PENN_T1	7	10	3	0.73	0.58	-0.15	0	0	0	0	0	0	0	0
5/11/2024 7:45	12006	HATF_T1	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
5/11/2024 7:49	56501	ROCK_T2	2	0	-2	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/11/2024 7:50	56501	ROCK_T2	2	0	-2	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/11/2024 7:51	56501	ROCK_T2	2	0	-2	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/11/2024 7:55	29401	BELT_T1	0	20	20	0	0.11	0.11	0	0	0	0	0	0	0	0
5/11/2024 7:55	29402	BELT_T1	207	251	44	0.74	1.03	0.29	0	0	0	0	0	0	0	0
5/11/2024 8:01	46801	HEPB_T2	0	1	1	0	0	0	0.44	0.48	0	0	0	0	0	0
5/11/2024 8:02	54201	PENN_T1	7	4	-3	0.6	1.15	0.55	-1.22	-1.22	0	0	0	0	0	0
5/11/2024 8:02	54203	PENN_T1	18	18	0	0.47	0.29	-0.18	0	0	0	0	0	0	0	0
5/11/2024 8:03	12505	MITR_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
5/11/2024 8:03	12502	MITR_T2	1	1	0	5.7	5.9	0.2	0	0	0	0	0	0	0	0
5/11/2024 8:05	27605	PIRI_T2	0	0	0	0	0	0	-0.76	-0.67	1	1	0	900	900	0
5/11/2024 8:09	67605	WARW_T1	15	12	-3	0.67	0.45	-0.22	-1.24	-1.19	0	0	0	0	0	0
5/11/2024 8:14	67605	WARW_T1	15	12	-3	0.67	0.45	-0.22	-1.24	-1.19	0	0	0	0	0	0
5/11/2024 8:29	44301	BEAV_T2	0	1	1	0	0	0	-0.42	-0.46	1	1	0	600	600	0
5/11/2024 8:31	40101	HUNT_T2	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
5/11/2024 8:31	44301	BEAV_T2	0	1	1	0	0	0	-0.42	-0.46	1	1	0	600	600	0
5/11/2024 8:33	13503	MCMI_T2	2	179	177	0.1	0.32	0.22	-1.94	-1.9	0	0	0	0	0	0
5/11/2024 8:34	13503	MCMI_T2	2	179	177	0.1	0.32	0.22	-0.97	-0.95	0	0	0	0	0	0
5/11/2024 8:38	45902	AUBU_T1	0	1	1	0	0.5	0.5	-0.51	-0.51	0	0	0	0	0	0
5/11/2024 8:44	45902	AUBU_T1	0	1	1	0	0.5	0.5	-0.51	-0.51	0	0	0	0	0	0
5/11/2024 8:50	43202	MVIL_T2	0	3	3	0	0.17	0.17	-0.72	-0.73	0	0	0	0	0	0
5/11/2024 8:53	29402	BELT_T1	156	128	-28	0.81	0.79	-0.02	0	0	0	0	0	0	0	0
5/11/2024 8:53	56802	BENV_T2	1	1	0	0.4	0.5	0.1	-0.79	-0.78	0	0	0	0	0	0
5/11/2024 8:53	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/11/2024 8:56	45501	DERR_T2	0	0	0	0	0	0	-0.59	-0.66	2	2	0	1800	1800	0
5/11/2024 8:59	45501	DERR_T2	0	0	0	0	0	0	-0.59	-0.66	2	2	0	1800	1800	0
5/11/2024 9:09	67605	WARW_T1	13	15	2	0.42	0.56	0.14	-1.18	-1.17	0	0	0	0	0	0
5/11/2024 9:09	13704	SCHN_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
5/11/2024 9:09	67603	WARW_T1	0	0	0	0	0	0	-0.08	-0.04	0	0	0	0	0	0
5/11/2024 9:13	61302	EARL_T1	0	1	1	0	0.2	0.2	-0.17	-0.13	2	2	0	1800	1800	0
5/11/2024 9:14	67605	WARW_T1	13	15	2	0.42	0.56	0.14	-1.18	-1.17	0	0	0	0	0	0
5/11/2024 9:18	41902	REED_T1	0	0	0	0	0	0	0.85	0.81	0	0	0	0	0	0
5/11/2024 9:19	41902	REED_T1	0	0	0	0	0	0	0.85	0.81	0	0	0	0	0	0
5/11/2024 9:34	60504	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/11/2024 9:34	54206	PENN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/11/2024 9:34	60502	NMAN_T2	0	0	0	0	0	0	-0.61	-0.56	0	0	0	0	0	0
5/11/2024 9:34	60501	NMAN_T2	3	3	0	4.1	4.47	0.37	0	0	0	0	0	0	0	0
5/11/2024 9:37	12505	MITR_T2	2	3	1	0.35	0.7	0.35	0.2	0.19	0	0	0	0	0	0
5/11/2024 9:37	12502	MITR_T2	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
5/11/2024 9:40	29402	BELT_T1	153	223	70	0.74	0.83	0.09	0	0	0	0	0	0	0	0
5/11/2024 9:40	29401	BELT_T1	1	6	5	0.1	0.23	0.13	0	0	0	0	0	0	0	0
5/11/2024 9:42	29401	BELT_T1	1	6	5	0.1	0.23	0.13	0	0	0	0	0	0	0	0
5/11/2024 9:42	29402	BELT_T1	153	223	70	0.74	0.83	0.09	0	0	0	0	0	0	0	0
5/11/2024 9:47	58402	MORO_T1	0	0	0	0	0	0	-0.57	-0.53	2	2	0	1500	1500	0
5/11/2024 9:50	67203	TEHI_T1	0	0	0	0	0	0	0.97	1.01	1	1	0	900	900	0
5/11/2024 9:54	67201	TEHI_T1	0	0	0	0	0	0	0.78	0.87	0	0	0	0	0	0
5/11/2024 9:54	20403	ASHF_T2	0	4	4	0	0.18	0.18	0.13	0.18	0	0	0	0	0	0
5/11/2024 9:54	20401	ASHF_T2	2	4	2	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
5/11/2024 9:55	29401	BELT_T1	3	6	3	0.23	0.23	0	0	0	1	1	0	900	900	0
5/11/2024 9:55	29402	BELT_T1	221	192	-29	0.84	0.73	-0.11	0	0	0	0	0	0	0	0
5/11/2024 9:57	20403	ASHF_T2	0	4	4	0	0.18	0.18	0.13	0.18	0	0	0	0	0	0
5/11/2024 9:57	20401	ASHF_T2	2	4	2	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
5/11/2024 9:58	11901	ETEX_T2	1	1	0	0.5	0.9	0.4	0.28	0.28	0	0	0	0	0	0
5/11/2024 10:00	60101	COCA_T1	0	1	1	0	0.1	0.1	0.25	0.21	0	0	0	0	0	0
5/11/2024 10:00	45902	AUBU_T1	2	7	5	0.95	0.73	-0.22	-1.05	-1.02	0	0	0	0	0	0
5/11/2024 10:00	58001	WCAR_T1	4	3	-1	0.35	0.23	-0.12	0.56	0.57	0	0	0	0	0	0
5/11/2024 10:00	13101	NHAM_T1	0	1	1	0	0.1	0.1	-2.37	-2.39	2	2	0	2100	2100	0
5/11/2024 10:00	57106	SPHI_T2	3	3	0	0.47	0.37	-0.1	0	0	0	0	0	0	0	0
5/11/2024 10:00	12807	MICK_T1	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
5/11/2024 10:00	42001	MNVL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 10:00	16605	PONO_T1	0	0	0	0	0	0	-1.06	-1.05	1	1	0	1200	1200	0
5/11/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.82	-0.82	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/11/2024 10:00	67605	WARW_T1	27	28	1	0.51	0.72	0.21	0	0	0	0	0	0	0	0
5/11/2024 10:00	51004	NHAR_T1	8	13	5	1.03	0.75	-0.28	0	0	0	0	0	0	0	0
5/11/2024 10:00	12604	MACA_T1	0	1	1	0	0.2	0.2	0.29	0.3	0	0	0	0	0	0
5/11/2024 10:00	67703	WERN_T2	0	1	1	0	0.3	0.3	-0.66	-0.64	2	2	0	1800	1800	0
5/11/2024 10:00	67401	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/11/2024 10:00	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/11/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
5/11/2024 10:00	60501	NMAN_T2	3	3	0	4.47	4.4	-0.07	0	0	0	0	0	0	0	0
5/11/2024 10:00	52502	PROG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/11/2024 10:00	65702	RVIL_T2	0	0	0	0	0	0	-0.63	-0.61	0	0	0	0	0	0
5/11/2024 10:00	27502	WEIS_T2	0	0	0	0	0	0	-0.33	-0.25	0	0	0	0	0	0
5/11/2024 10:00	40603	PIGR_T1	0	0	0	0	0	0	-0.4	-0.37	1	1	0	900	900	0
5/11/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
5/11/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
5/11/2024 10:00	11101	EGYP_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
5/11/2024 10:00	24701	FLND_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
5/11/2024 10:00	51002	NHAR_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/11/2024 10:00	12505	MITR_T2	3	5	2	0.7	0.6	-0.1	0.19	0.23	0	0	0	0	0	0
5/11/2024 10:00	14603	SWHI_T1	4	4	0	0.7	0.93	0.23	0	0	0	0	0	0	0	0
5/11/2024 10:00	53901	HALI_T2	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
5/11/2024 10:00	45602	WOOL_T1	0	0	0	0	0	0	0.84	0.86	0	0	0	0	0	0
5/11/2024 10:00	63304	GREE_T1	0	0	0	0	0	0	-0.46	-0.43	0	0	0	0	0	0
5/11/2024 10:00	63306	GREE_T1	0	0	0	0	0	0	-2.14	-2.11	1	1	0	900	900	0
5/11/2024 10:00	59201	THOM_T1	20	22	2	0.51	0.5	-0.01	0	0	0	0	0	0	0	0
5/11/2024 10:00	44505	HAMI_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
5/11/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 10:00	16902	MECK_T1	1	0	-1	0.1	0	-0.1	0.06	0.06	0	0	0	0	0	0
5/11/2024 10:00	67603	WARW_T1	0	1	1	0	0.3	0.3	-0.11	-0.03	0	0	0	0	0	0
5/11/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-1.17	-1.26	0	0	0	0	0	0
5/11/2024 10:00	16103	BING_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/11/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.55	-0.49	1	1	0	600	600	0
5/11/2024 10:00	48302	ORWI_T2	2	2	0	0.2	0.25	0.05	-0.1	-0.07	0	0	0	0	0	0
5/11/2024 10:00	56601	HAMP_T1	0	0	0	0	0	0	-1.94	-1.97	0	0	0	0	0	0
5/11/2024 10:00	40901	JESH_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
5/11/2024 10:00	53501	EVIL_T2	1	2	1	0.4	0.4	0	-1.42	-1.47	0	0	0	0	0	0
5/11/2024 10:00	10801	CHHI_T1	2	5	3	0.45	0.48	0.03	-0.96	-0.89	1	1	0	900	900	0
5/11/2024 10:00	17001	RIRO_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
5/11/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
5/11/2024 10:00	62605	ENGL_T1	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
5/11/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-0.92	-0.86	0	0	0	0	0	0
5/11/2024 10:00	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/11/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-1.8	-1.75	0	0	0	0	0	0
5/11/2024 10:00	58101	NEKI_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/11/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	-0.71	-0.87	2	2	0	1800	1800	0
5/11/2024 10:00	41902	REED_T1	0	0	0	0	0	0	0.88	0.85	0	0	0	0	0	0
5/11/2024 10:00	25603	ARRO_T1	0	1	1	0	0.2	0.2	-0.16	-0.15	0	0	0	0	0	0
5/11/2024 10:00	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 10:00	22401	MORG_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/11/2024 10:00	40602	PIGR_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/11/2024 10:00	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/11/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	-0.45	-0.47	1	1	0	600	600	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
5/11/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
5/11/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.63	-0.65	0	0	0	0	0	0
5/11/2024 10:00	61302	EARL_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/11/2024 10:00	50701	SMEC_T1	1	1	0	0.2	0.5	0.3	-0.88	-0.85	1	1	0	900	900	0
5/11/2024 10:00	58803	COCO_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/11/2024 10:00	45702	LIND_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
5/11/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-2.1	-2.12	0	0	0	0	0	0
5/11/2024 10:00	64303	LINC_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/11/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
5/11/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	0.17	0.26	0	0	0	0	0	0
5/11/2024 10:00	12502	MITR_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
5/11/2024 10:00	17101	WTRE_T2	630	701	71	0.61	0.57	-0.04	0	0	0	0	0	0	0	0
5/11/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-1.39	-1.36	1	1	0	900	900	0
5/11/2024 10:00	47002	HUGH_T2	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
5/11/2024 10:00	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/11/2024 10:00	60504	NMAN_T2	0	2	2	0	1	1	0	0	0	0	0	0	0	0
5/11/2024 10:00	64101	REFR_T1	1	1	0	0.1	0.4	0.3	0.05	0.05	0	0	0	0	0	0
5/11/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.53	-0.54	2	2	0	1500	1500	0
5/11/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-1.35	-1.29	1	1	0	900	900	0
5/11/2024 10:00	52004	LING_T2	0	0	0	0	0	0	0.09	0.03	0	0	0	0	0	0
5/11/2024 10:00	58102	NEKI_T1	1	1	0	0.7	0.8	0.1	-1.24	-1.31	1	1	0	1200	1200	0
5/11/2024 10:00	13704	SCHN_T2	0	0	0	0	0	0	-0.39	-0.36	0	0	0	0	0	0
5/11/2024 10:00	57104	SPHI_T2	0	0	0	0	0	0	-2.1	-2.17	1	1	0	900	900	0
5/11/2024 10:00	53903	HALI_T2	2	2	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
5/11/2024 10:00	59202	THOM_T1	265	287	22	0.3	0.34	0.04	0	0	0	0	0	0	0	0
5/11/2024 10:00	54502	ENOL_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
5/11/2024 10:00	52503	PROG_T2	0	0	0	0	0	0	-0.69	-0.65	1	1	0	900	900	0
5/11/2024 10:00	44502	HAMI_T2	1	1	0	2.7	2.6	-0.1	-0.94	-0.93	0	0	0	0	0	0
5/11/2024 10:00	67002	STHI_T2	0	2	2	0	0.15	0.15	0.66	0.66	0	0	0	0	0	0
5/11/2024 10:00	66303	MCGO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/11/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	-0.95	-0.97	1	1	0	600	600	0
5/11/2024 10:00	53902	HALI_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
5/11/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-1.11	-1.27	1	1	0	1200	1200	0
5/11/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
5/11/2024 10:00	12601	MACA_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/11/2024 10:00	16102	BING_T2	0	2	2	0	0.45	0.45	-0.08	-0.02	0	0	0	0	0	0
5/11/2024 10:00	24702	FLND_T2	2	3	1	0.5	0.77	0.27	0	0	0	0	0	0	0	0
5/11/2024 10:00	22405	MORG_T2	1	1	0	0.1	0.3	0.2	-1.56	-1.51	0	0	0	0	0	0
5/11/2024 10:00	12802	MICK_T1	0	0	0	0	0	0	-1.34	-1.31	0	0	0	0	0	0
5/11/2024 10:00	57101	SPHI_T2	2	6	4	0.1	0.25	0.15	0	0	0	0	0	0	0	0
5/11/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
5/11/2024 10:00	58003	WCAR_T1	1	1	0	0.8	0.9	0.1	0.53	0.52	0	0	0	0	0	0
5/11/2024 10:00	62607	ENGL_T1	1	1	0	0.5	0.6	0.1	-1.18	-1.18	1	1	0	300	300	0
5/11/2024 10:00	12605	MACA_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/11/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-2.08	-2.17	0	0	0	0	0	0
5/11/2024 10:00	63401	HONY_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
5/11/2024 10:00	42002	MNVL_T2	1	1	0	3.1	3.7	0.6	0	0	0	0	0	0	0	0
5/11/2024 10:00	63404	HONY_T1	112	85	-27	0.29	0.22	-0.07	0	0	0	0	0	0	0	0
5/11/2024 10:00	40505	CRES_T1	3	3	0	4.93	4.9	-0.03	0.24	0.24	0	0	0	0	0	0
5/11/2024 10:00	11901	ETEX_T2	1	1	0	0.8	0.9	0.1	0.28	0.28	0	0	0	0	0	0
5/11/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
5/11/2024 10:00	40601	PIGR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/11/2024 10:00	54601	SUMM_T2	0	0	0	0	0	0	-1.8	-1.89	2	2	0	2100	2100	0
5/11/2024 10:01	11904	ETEX_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
5/11/2024 10:01	11901	ETEX_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/11/2024 10:02	65503	MOJO_T2	0	9	9	0	0.5	0.5	-1.32	-1.33	1	1	0	900	900	0
5/11/2024 10:05	63602	LETO_T1	2	0	-2	0.3	0	-0.3	-0.54	-0.56	0	0	0	0	0	0
5/11/2024 10:05	64101	REFR_T1	1	1	0	0.1	0.4	0.3	0.05	0.05	0	0	0	0	0	0
5/11/2024 10:06	40101	HUNT_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
5/11/2024 10:06	64801	MONE_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
5/11/2024 10:06	54001	SDLE_T1	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
5/11/2024 10:06	65001	NEFF_T2	0	0	0	0	0	0	-1.11	-1.27	1	1	0	1200	1200	0
5/11/2024 10:06	65503	MOJO_T2	0	9	9	0	0.5	0.5	-1.32	-1.33	1	1	0	900	900	0
5/11/2024 10:06	40201	MEGA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/11/2024 10:06	60801	BUCK_T1	0	1	1	0	0.1	0.1	-0.4	-0.36	0	0	0	0	0	0
5/11/2024 10:06	53802	MBRG_T2	0	0	0	0	0	0	0.79	0.83	0	0	0	0	0	0
5/11/2024 10:06	54602	SUMM_T2	0	0	0	0	0	0	-2.49	-2.47	1	1	0	600	600	0
5/11/2024 10:07	44201	POIN_T1	0	0	0	0	0	0	-1.66	-1.55	1	1	0	1200	1200	0
5/11/2024 10:07	11901	ETEX_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/11/2024 10:07	43104	SMIL_T2	0	0	0	0	0	0	-0.83	-0.83	1	1	0	300	300	0
5/11/2024 10:07	56501	ROCK_T2	1	1	0	2.6	1	-1.6	-0.01	-0.01	0	0	0	0	0	0
5/11/2024 10:07	60701	BREC_T1	0	2	2	0	0.3	0.3	0.03	0.05	0	0	0	0	0	0
5/11/2024 10:07	56801	BENV_T1	14	13	-1	0.8	0.77	-0.03	0	0	0	0	0	0	0	0
5/11/2024 10:07	60801	BUCK_T1	0	1	1	0	0.1	0.1	-0.2	-0.18	0	0	0	0	0	0
5/11/2024 10:07	59202	THOM_T1	265	287	22	0.3	0.34	0.04	0	0	0	0	0	0	0	0
5/11/2024 10:07	61302	EARL_T1	1	1	0	0.8	0.9	0.1	0	-0.06	2	2	0	1800	1800	0
5/11/2024 10:07	64302	LINC_T2	0	0	0	0	0	0	0.88	0.88	0	0	0	0	0	0
5/11/2024 10:07	42903	MIDD_T2	2	2	0	0.2	0.5	0.3	-0.54	-0.5	0	0	0	0	0	0
5/11/2024 10:07	29401	BELT_T1	6	3	-3	0.23	0.37	0.14	0	0	3	3	0	2700	2700	0
5/11/2024 10:07	29402	BELT_T1	166	197	31	0.69	0.74	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/11/2024 10:07	47104	MARL_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
5/11/2024 10:07	59201	THOM_T1	20	22	2	0.51	0.5	-0.01	0	0	0	0	0	0	0	0
5/11/2024 10:07	24101	EHAZ_T1	0	14	14	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 10:07	40703	FFLD_T1	0	1	1	0	0.1	0.1	0.34	0.34	0	0	0	0	0	0
5/11/2024 10:07	43103	SMIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/11/2024 10:07	15103	UPHA_T2	2	3	1	0.4	0.5	0.1	0.33	0.32	0	0	0	0	0	0
5/11/2024 10:07	11904	ETEX_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
5/11/2024 10:07	56803	BENV_T1	5	10	5	0.58	0.36	-0.22	-0.1	-0.09	1	1	0	600	600	0
5/11/2024 10:07	24105	EHAZ_T1	4	4	0	6.73	6.68	-0.05	-0.71	-0.65	1	1	0	1200	1200	0
5/11/2024 10:07	66502	SMAN_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
5/11/2024 10:07	11101	EGYP_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
5/11/2024 10:07	22102	EDEL_T1	0	0	0	0	0	0	-0.09	-0.04	0	0	0	0	0	0
5/11/2024 10:07	40702	FFLD_T1	48	66	18	0.13	0.15	0.02	0	0	0	0	0	0	0	0
5/11/2024 10:07	53501	EVIL_T2	1	2	1	0.4	0.4	0	-0.71	-0.73	0	0	0	0	0	0
5/11/2024 10:07	56504	ROCK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/11/2024 10:07	66504	SMAN_T2	0	0	0	0	0	0	-0.61	-0.55	0	0	0	0	0	0
5/11/2024 10:07	40701	FFLD_T1	31	28	-3	0.15	0.19	0.04	0	0	0	0	0	0	0	0
5/11/2024 10:08	12605	MACA_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/11/2024 10:08	67503	WEWI_T2	0	0	0	0	0	0	1.12	1.13	0	0	0	0	0	0
5/11/2024 10:08	67502	WEWI_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
5/11/2024 10:08	12601	MACA_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/11/2024 10:08	58402	MORO_T1	0	0	0	0	0	0	-0.54	-0.51	2	2	0	1500	1500	0
5/11/2024 10:08	65604	OVIL_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
5/11/2024 10:08	12604	MACA_T1	0	1	1	0	0.2	0.2	0.29	0.3	0	0	0	0	0	0
5/11/2024 10:09	16402	MOPO_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
5/11/2024 10:09	15402	WALL_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/11/2024 10:09	46203	DANV_T2	0	0	0	0	0	0	-2.08	-2.09	0	0	0	0	0	0
5/11/2024 10:09	15404	WALL_T1	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
5/11/2024 10:10	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/11/2024 10:10	29402	BELT_T1	166	197	31	0.69	0.74	0.05	0	0	0	0	0	0	0	0
5/11/2024 10:10	45902	AUBU_T1	2	7	5	0.95	0.73	-0.22	-0.51	-0.48	0	0	0	0	0	0
5/11/2024 10:10	29401	BELT_T1	6	3	-3	0.23	0.37	0.14	0	0	1	1	0	900	900	0
5/11/2024 10:12	29401	BELT_T1	6	3	-3	0.23	0.37	0.14	0	0	1	1	0	900	900	0
5/11/2024 10:12	45902	AUBU_T1	2	7	5	0.95	0.73	-0.22	-0.51	-0.48	0	0	0	0	0	0
5/11/2024 10:12	29402	BELT_T1	166	197	31	0.69	0.74	0.05	0	0	0	0	0	0	0	0
5/11/2024 10:12	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/11/2024 10:12	10801	CHHI_T1	2	5	3	0.45	0.48	0.03	-0.89	-0.92	1	1	0	900	900	0
5/11/2024 10:13	29402	BELT_T1	166	197	31	0.69	0.74	0.05	0	0	0	0	0	0	0	0
5/11/2024 10:13	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/11/2024 10:13	45902	AUBU_T1	2	7	5	0.95	0.73	-0.22	-0.51	-0.48	0	0	0	0	0	0
5/11/2024 10:13	53501	EVIL_T2	1	2	1	0.4	0.4	0	-0.73	-0.77	0	0	0	0	0	0
5/11/2024 10:13	29401	BELT_T1	6	3	-3	0.23	0.37	0.14	0	0	0	0	0	0	0	0
5/11/2024 10:14	24501	GOUL_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/11/2024 10:14	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/11/2024 10:14	45902	AUBU_T1	2	7	5	0.95	0.73	-0.22	-0.51	-0.48	0	0	0	0	0	0
5/11/2024 10:14	59102	WALK_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
5/11/2024 10:15	59003	MIFF_T1	1	1	0	0.4	0.3	-0.1	0.32	0.35	0	0	0	0	0	0
5/11/2024 10:15	59002	MIFF_T1	6	6	0	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
5/11/2024 10:18	13503	MCMI_T2	309	236	-73	0.74	0.53	-0.21	-1.91	-1.95	0	0	0	0	0	0
5/11/2024 10:18	26401	INOR_T1	3	4	1	3.07	2.58	-0.49	0.35	0.34	0	0	0	0	0	0
5/11/2024 10:19	13503	MCMI_T2	309	236	-73	0.74	0.53	-0.21	-0.96	-0.98	0	0	0	0	0	0
5/11/2024 10:21	51004	NHAR_T1	11	13	2	0.75	0.79	0.04	-0.48	-0.48	0	0	0	0	0	0
5/11/2024 10:21	51002	NHAR_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/11/2024 10:22	13901	SEID_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
5/11/2024 10:22	13905	SEID_T1	1	2	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
5/11/2024 10:23	20401	ASHF_T2	4	2	-2	0.43	0.25	-0.18	0	0	0	0	0	0	0	0
5/11/2024 10:23	20403	ASHF_T2	4	4	0	0.18	0.7	0.52	0.15	0.19	0	0	0	0	0	0
5/11/2024 10:23	16302	ALPA_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
5/11/2024 10:25	20401	ASHF_T2	4	2	-2	0.43	0.25	-0.18	0	0	0	0	0	0	0	0
5/11/2024 10:25	20403	ASHF_T2	4	4	0	0.18	0.7	0.52	0.15	0.19	0	0	0	0	0	0
5/11/2024 10:25	16302	ALPA_T2	0	0	0	0	0	0	0.49	0.61	0	0	0	0	0	0
5/11/2024 10:26	16302	ALPA_T2	0	0	0	0	0	0	0.49	0.61	0	0	0	0	0	0
5/11/2024 10:27	41801	GOCI_T2	1	68	67	0.2	0.2	0	0	0	0	0	0	0	0	0
5/11/2024 10:27	20401	ASHF_T2	4	2	-2	0.43	0.25	-0.18	-0.39	-0.41	0	0	0	0	0	0
5/11/2024 10:27	20403	ASHF_T2	4	4	0	0.18	0.7	0.52	0	0	0	0	0	0	0	0
5/11/2024 10:28	11406	FARM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/11/2024 10:28	11405	FARM_T1	1	2	1	0.2	0.1	-0.1	-1.06	-1.08	1	1	0	1200	1200	0
5/11/2024 10:28	41801	GOCI_T2	1	68	67	0.2	0.2	0	0	0	0	0	0	0	0	0
5/11/2024 10:28	11402	FARM_T1	3	4	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
5/11/2024 10:28	11404	FARM_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/11/2024 10:30	46002	BERW_T2	0	0	0	0	0	0	-1.32	-1.31	1	1	0	900	900	0
5/11/2024 10:30	28805	LAKE_T1	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
5/11/2024 10:30	46004	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/11/2024 10:34	13606	RICH_T2	1	2	1	6.9	6.7	-0.2	0.71	0.72	0	0	0	0	0	0
5/11/2024 10:34	42903	MIDD_T2	2	2	0	0.5	0.8	0.3	-0.47	-0.48	0	0	0	0	0	0
5/11/2024 10:35	42201	SHEN_T2	0	0	0	0	0	0	0.55	0.57	0	0	0	0	0	0
5/11/2024 10:35	43202	MVIL_T2	27	60	33	0.19	0.3	0.11	-0.73	-0.72	0	0	0	0	0	0
5/11/2024 10:37	65205	PRIN_T1	1	4	3	1.6	0.7	-0.9	0	0	0	0	0	0	0	0
5/11/2024 10:37	67702	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/11/2024 10:37	67203	TEHI_T1	2	2	0	0.25	0.3	0.05	0.99	0.95	1	1	0	900	900	0
5/11/2024 10:37	67201	TEHI_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/11/2024 10:37	67703	WERN_T2	1	0	-1	0.3	0	-0.3	-0.36	-0.32	1	1	0	900	900	0
5/11/2024 10:38	67603	WARW_T1	1	3	2	0.3	0.57	0.27	-0.04	-0.06	0	0	0	0	0	0
5/11/2024 10:38	67605	WARW_T1	28	27	-1	0.68	0.61	-0.07	0	0	0	0	0	0	0	0
5/11/2024 10:38	23001	SAJO_T1	0	0	0	0	0	0	-0.83	-0.87	0	0	0	0	0	0
5/11/2024 10:39	67605	WARW_T1	28	27	-1	0.68	0.61	-0.07	-1.15	-1.18	0	0	0	0	0	0
5/11/2024 10:39	67605	WARW_T1	28	27	-1	0.68	0.61	-0.07	-1.15	-1.18	0	0	0	0	0	0
5/11/2024 10:39	67605	WARW_T1	28	27	-1	0.68	0.61	-0.07	-1.15	-1.18	0	0	0	0	0	0
5/11/2024 10:39	67603	WARW_T1	1	3	2	0.3	0.57	0.27	0	0	0	0	0	0	0	0
5/11/2024 10:40	22002	BOHE_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
5/11/2024 10:40	22003	BOHE_T1	2	2	0	1.6	1.25	-0.35	0	0	0	0	0	0	0	0
5/11/2024 10:41	24105	EHAZ_T1	4	4	0	6.83	5.85	-0.98	-1.98	-1.94	1	1	0	1200	1200	0
5/11/2024 10:41	24102	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 10:41	24104	EHAZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/11/2024 10:41	24101	EHAZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/11/2024 10:42	23001	SAJO_T1	0	0	0	0	0	0	-0.83	-0.87	0	0	0	0	0	0
5/11/2024 10:43	61302	EARL_T1	1	0	-1	0.9	0	-0.9	-0.08	-0.1	2	2	0	1800	1800	0
5/11/2024 10:43	24101	EHAZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/11/2024 10:43	24104	EHAZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/11/2024 10:43	24103	EHAZ_T1	0	0	0	0	0	0	-1.62	-1.55	0	0	0	0	0	0
5/11/2024 10:43	24105	EHAZ_T1	4	4	0	6.83	5.85	-0.98	0	0	0	0	0	0	0	0
5/11/2024 10:43	24102	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 10:44	11202	ELHE_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
5/11/2024 10:45	64701	LITI_T1	0	0	0	0	0	0	0.04	0.11	0	0	0	0	0	0
5/11/2024 10:45	61304	EARL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/11/2024 10:45	61303	EARL_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
5/11/2024 10:47	16302	ALPA_T2	0	0	0	0	0	0	0.61	0.53	0	0	0	0	0	0
5/11/2024 10:48	67605	WARW_T1	25	19	-6	0.63	0.62	-0.01	-1.15	-1.18	0	0	0	0	0	0
5/11/2024 10:48	67603	WARW_T1	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
5/11/2024 10:49	46801	HEPB_T2	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
5/11/2024 10:52	65904	SAKR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/11/2024 10:52	65901	SAKR_T2	2	2	0	4.9	4.85	-0.05	0	0	0	0	0	0	0	0
5/11/2024 10:52	65903	SAKR_T2	0	0	0	0	0	0	-1.35	-1.33	3	3	0	2100	2100	0
5/11/2024 10:54	14702	TREX_T2	0	1	1	0	0.2	0.2	1.48	1.45	0	0	0	0	0	0
5/11/2024 10:55	14702	TREX_T2	0	1	1	0	0.2	0.2	0.74	0.72	0	0	0	0	0	0
5/11/2024 11:02	45902	AUBU_T1	4	5	1	0.95	0.94	-0.01	-0.44	-0.47	0	0	0	0	0	0
5/11/2024 11:03	58402	MORO_T1	0	0	0	0	0	0	-0.51	-0.52	2	2	0	1500	1500	0
5/11/2024 11:04	55002	NEWP_T1	0	2	2	0	0.15	0.15	-0.69	-0.72	0	0	0	0	0	0
5/11/2024 11:04	55001	NEWP_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/11/2024 11:05	55002	NEWP_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/11/2024 11:05	55001	NEWP_T1	1	0	-1	0.6	0	-0.6	-0.76	-0.74	0	0	0	0	0	0
5/11/2024 11:05	13606	RICH_T2	1	1	0	6.7	6.7	0	0.7	0.71	0	0	0	0	0	0
5/11/2024 11:05	58402	MORO_T1	0	0	0	0	0	0	-0.51	-0.52	2	2	0	1500	1500	0
5/11/2024 11:06	55001	NEWP_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/11/2024 11:06	55002	NEWP_T1	0	2	2	0	0.15	0.15	-0.23	-0.24	0	0	0	0	0	0
5/11/2024 11:06	54601	SUMM_T2	0	0	0	0	0	0	-1.87	-1.89	2	2	0	2100	2100	0
5/11/2024 11:06	59002	MIFF_T1	6	6	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
5/11/2024 11:06	58402	MORO_T1	0	0	0	0	0	0	-0.51	-0.52	2	2	0	1500	1500	0
5/11/2024 11:06	41901	REED_T1	0	0	0	0	0	0	-2.12	-2.14	1	1	0	900	900	0
5/11/2024 11:06	59003	MIFF_T1	1	1	0	0.2	0.4	0.2	0.34	0.34	0	0	0	0	0	0
5/11/2024 11:07	67201	TEHI_T1	0	2	2	0	0.7	0.7	0.71	0.72	0	0	0	0	0	0
5/11/2024 11:07	67203	TEHI_T1	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
5/11/2024 11:08	42601	TUSC_T1	0	1	1	0	0.2	0.2	-0.55	-0.62	2	2	0	1800	1800	0
5/11/2024 11:09	65802	RTWN_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
5/11/2024 11:11	46203	DANV_T2	1	2	1	0.2	0.9	0.7	-4.16	-4.28	0	0	0	0	0	0
5/11/2024 11:11	67603	WARW_T1	2	1	-1	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
5/11/2024 11:11	67605	WARW_T1	18	19	1	0.59	0.64	0.05	-1.17	-1.15	0	0	0	0	0	0
5/11/2024 11:12	46203	DANV_T2	1	2	1	0.2	0.9	0.7	-4.16	-4.28	0	0	0	0	0	0
5/11/2024 11:13	14204	EALL_T2	0	2	2	0	0.15	0.15	-0.8	-0.78	0	0	0	0	0	0
5/11/2024 11:13	46203	DANV_T2	1	2	1	0.2	0.9	0.7	-2.08	-2.14	0	0	0	0	0	0
5/11/2024 11:13	16103	BING_T2	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
5/11/2024 11:13	16101	BING_T2	1	1	0	0.2	0.6	0.4	0.37	0.37	0	0	0	0	0	0
5/11/2024 11:13	16102	BING_T2	0	6	6	0	0.43	0.43	0	0	0	0	0	0	0	0
5/11/2024 11:14	61303	EARL_T1	0	0	0	0	0	0	-0.05	0.1	0	0	0	0	0	0
5/11/2024 11:14	61304	EARL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/11/2024 11:14	61302	EARL_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/11/2024 11:15	47001	HUGH_T2	0	0	0	0	0	0	-0.93	-0.9	0	0	0	0	0	0
5/11/2024 11:15	65401	MARI_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
5/11/2024 11:15	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 11:15	46801	HEPB_T2	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
5/11/2024 11:17	43202	MVIL_T2	44	43	-1	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
5/11/2024 11:17	43201	MVIL_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
5/11/2024 11:17	17401	FOHI_T1	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
5/11/2024 11:18	65402	MARI_T1	0	0	0	0	0	0	-0.34	-0.31	0	0	0	0	0	0
5/11/2024 11:18	44502	HAMI_T2	2	2	0	1.2	1.45	0.25	-0.95	-0.89	0	0	0	0	0	0
5/11/2024 11:18	43202	MVIL_T2	44	43	-1	0.22	0.18	-0.04	-0.73	-0.74	0	0	0	0	0	0
5/11/2024 11:19	61302	EARL_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/11/2024 11:19	61304	EARL_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/11/2024 11:19	65401	MARI_T1	0	0	0	0	0	0	0.72	0.75	0	0	0	0	0	0
5/11/2024 11:19	61303	EARL_T1	0	0	0	0	0	0	-0.03	0.05	0	0	0	0	0	0
5/11/2024 11:19	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 11:20	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/11/2024 11:20	65401	MARI_T1	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
5/11/2024 11:21	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 11:22	55102	WERT_T2	0	0	0	0	0	0	-0.99	-0.97	1	1	0	600	600	0
5/11/2024 11:23	64101	REFR_T1	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
5/11/2024 11:24	26001	WDAM_T1	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
5/11/2024 11:24	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/11/2024 11:26	56802	BENV_T2	0	1	1	0	0.3	0.3	-0.69	-0.73	0	0	0	0	0	0
5/11/2024 11:26	24204	PROV_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
5/11/2024 11:26	24201	PROV_T3	1	1	0	6.2	6.3	0.1	-1.46	-1.43	1	1	0	1200	1200	0
5/11/2024 11:27	67605	WARW_T1	17	18	1	0.61	0.7	0.09	-1.15	-1.13	0	0	0	0	0	0
5/11/2024 11:27	60903	DONG_T2	0	0	0	0	0	0	0.93	1.16	1	1	0	600	600	0
5/11/2024 11:27	11803	FRAN_T2	1	2	1	0.2	0.55	0.35	-0.36	-0.35	0	0	0	0	0	0
5/11/2024 11:27	10805	CHIH_T2	1	1	0	7.8	7.9	0.1	-1.11	-1.05	0	0	0	0	0	0
5/11/2024 11:27	60901	DONG_T2	3	4	1	0.57	0.28	-0.29	0	0	0	0	0	0	0	0
5/11/2024 11:27	67603	WARW_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
5/11/2024 11:27	60904	DONG_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/11/2024 11:28	10801	CHIH_T1	6	6	0	0.37	0.57	0.2	-0.93	-0.94	1	1	0	900	900	0
5/11/2024 11:28	10805	CHIH_T2	1	1	0	7.8	7.9	0.1	-1.11	-1.05	0	0	0	0	0	0
5/11/2024 11:28	64101	REFR_T1	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
5/11/2024 11:29	67605	WARW_T1	17	18	1	0.61	0.7	0.09	-1.15	-1.13	0	0	0	0	0	0
5/11/2024 11:29	67603	WARW_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
5/11/2024 11:30	61304	EARL_T1	0	0	0	0	0	0	-0.98	-0.99	1	1	0	600	600	0
5/11/2024 11:30	61302	EARL_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
5/11/2024 11:30	63602	LETO_T1	2	1	-1	0.75	0.3	-0.45	0	0	0	0	0	0	0	0
5/11/2024 11:30	61303	EARL_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
5/11/2024 11:30	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.03	0	0	0	0	0	0
5/11/2024 11:30	63601	LETO_T1	0	0	0	0	0	0	0.76	0.83	1	1	0	900	900	0
5/11/2024 11:31	25402	LAHA_T2	0	1	1	0	0.1	0.1	-0.44	-0.2	0	0	0	0	0	0
5/11/2024 11:31	25404	LAHA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/11/2024 11:33	44505	HAMI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/11/2024 11:33	44502	HAMI_T2	1	2	1	2.4	1.5	-0.9	-0.89	-0.88	0	0	0	0	0	0
5/11/2024 11:34	67605	WARW_T1	16	20	4	0.69	0.68	-0.01	-1.15	-1.13	0	0	0	0	0	0
5/11/2024 11:34	67603	WARW_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
5/11/2024 11:39	67603	WARW_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
5/11/2024 11:39	67605	WARW_T1	16	20	4	0.69	0.68	-0.01	-1.13	-1.11	0	0	0	0	0	0
5/11/2024 11:41	60101	COCA_T1	2	1	-1	0.3	1.2	0.9	0.21	0.22	0	0	0	0	0	0
5/11/2024 11:44	67603	WARW_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
5/11/2024 11:44	67605	WARW_T1	16	20	4	0.69	0.68	-0.01	-1.13	-1.11	0	0	0	0	0	0
5/11/2024 11:50	65401	MARI_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
5/11/2024 11:51	13606	RICH_T2	1	1	0	6.7	6.5	-0.2	0	0	0	0	0	0	0	0
5/11/2024 11:51	26001	WDAM_T1	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
5/11/2024 11:51	13601	RICH_T2	0	0	0	0	0	0	0.08	0.04	1	1	0	600	600	0
5/11/2024 11:51	65205	PRIN_T1	4	3	-1	0.87	0.73	-0.14	0	0	0	0	0	0	0	0
5/11/2024 11:53	42802	SELI_T1	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
5/11/2024 11:54	42802	SELI_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
5/11/2024 11:56	24105	EHAZ_T1	4	4	0	5.9	5.83	-0.07	0	0	0	0	0	0	0	0
5/11/2024 11:56	56803	BENV_T1	5	15	10	0.6	0.84	0.24	0	0	0	0	0	0	0	0
5/11/2024 11:56	56801	BENV_T1	11	16	5	1.01	0.93	-0.08	-0.28	-0.36	0	0	0	0	0	0
5/11/2024 11:56	24104	EHAZ_T1	0	0	0	0	0	0	-0.97	-0.99	1	1	0	1200	1200	0
5/11/2024 11:58	63303	GREE_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/11/2024 11:58	63302	GREE_T1	0	0	0	0	0	0	0.25	0.32	0	0	0	0	0	0
5/11/2024 11:58	63306	GREE_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/11/2024 12:00	64702	LITI_T2	0	0	0	0	0	0	-0.77	-0.73	0	0	0	0	0	0
5/11/2024 12:03	64302	LINC_T2	0	0	0	0	0	0	0.92	0.91	0	0	0	0	0	0
5/11/2024 12:03	16402	MOPO_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/11/2024 12:03	16401	MOPO_T1	0	1	1	0	0.2	0.2	0.21	0.22	0	0	0	0	0	0
5/11/2024 12:04	63302	GREE_T1	0	0	0	0	0	0	0.25	0.32	0	0	0	0	0	0
5/11/2024 12:04	63303	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/11/2024 12:06	13701	SCHN_T2	0	0	0	0	0	0	0	0.04	1	1	0	600	600	0
5/11/2024 12:07	16406	MOPO_T1	0	0	0	0	0	0	-1.47	-1.52	2	2	0	2100	2100	0
5/11/2024 12:07	16401	MOPO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/11/2024 12:07	66505	SMAN_T2	0	1	1	0	0.2	0.2	0.08	0.01	2	2	0	1100	1100	0
5/11/2024 12:07	66504	SMAN_T2	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/11/2024 12:07	66502	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/11/2024 12:07	15104	UPHA_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
5/11/2024 12:07	16402	MOPO_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/11/2024 12:07	15103	UPHA_T2	1	2	1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/11/2024 12:08	15102	UPHA_T1	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
5/11/2024 12:08	15101	UPHA_T1	0	0	0	0	0	0	0.55	0.59	0	0	0	0	0	0
5/11/2024 12:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/11/2024 12:09	29402	BELT_T1	80	96	16	0.52	0.6	0.08	0	0	0	0	0	0	0	0
5/11/2024 12:10	10901	COOP_T2	1	1	0	0.1	0.4	0.3	0.74	0.81	0	0	0	0	0	0
5/11/2024 12:10	10903	COOP_T2	1	18	17	0.2	0.22	0.02	0	0	0	0	0	0	0	0
5/11/2024 12:11	59101	WALK_T2	0	1	1	0	0.6	0.6	1.32	1.19	0	0	0	0	0	0
5/11/2024 12:12	44502	HAMI_T2	2	1	-1	1.45	2.7	1.25	0	0	0	0	0	0	0	0
5/11/2024 12:12	44503	HAMI_T2	0	0	0	0	0	0	-1.74	-1.76	1	1	0	1200	1200	0
5/11/2024 12:12	44505	HAMI_T2	2	2	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
5/11/2024 12:13	46001	BERW_T1	0	0	0	0	0	0	1	0.94	0	0	0	0	0	0
5/11/2024 12:14	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/11/2024 12:14	29402	BELT_T1	80	96	16	0.52	0.6	0.08	0	0	0	0	0	0	0	0
5/11/2024 12:16	40701	FFLD_T1	51	66	15	0.28	0.3	0.02	0	0	0	0	0	0	0	0
5/11/2024 12:16	46001	BERW_T1	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
5/11/2024 12:16	40702	FFLD_T1	147	161	14	0.27	0.3	0.03	-1.16	-1.14	1	1	0	1200	1200	0
5/11/2024 12:16	40703	FFLD_T1	3	3	0	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
5/11/2024 12:17	42903	MIDD_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
5/11/2024 12:17	64305	LINC_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/11/2024 12:17	64301	LINC_T1	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
5/11/2024 12:17	42902	MIDD_T2	0	1	1	0	0.2	0.2	-0.71	-0.72	0	0	0	0	0	0
5/11/2024 12:18	46602	LACR_T1	1	1	0	0.3	1.6	1.3	-1.03	-1.01	0	0	0	0	0	0
5/11/2024 12:20	60502	NMAN_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
5/11/2024 12:20	60504	NMAN_T2	2	3	1	0.2	0.83	0.63	-0.58	-0.56	1	1	0	1200	1200	0
5/11/2024 12:20	65004	NEFF_T2	0	1	1	0	0.2	0.2	-0.54	-0.95	0	1	1	0	600	600
5/11/2024 12:20	60501	NMAN_T2	5	3	-2	2.64	4.43	1.79	0	0	0	0	0	0	0	0
5/11/2024 12:20	43202	MVIL_T2	8	49	41	0.16	0.22	0.06	0	0	0	0	0	0	0	0
5/11/2024 12:20	43201	MVIL_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
5/11/2024 12:20	65002	NEFF_T2	1	1	0	0.3	2.1	1.8	0	0	0	0	0	0	0	0
5/11/2024 12:22	46001	BERW_T1	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
5/11/2024 12:22	26001	WDAM_T1	0	0	0	0	0	0	-0.54	-0.58	0	0	0	0	0	0
5/11/2024 12:22	26002	WDAM_T1	0	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0
5/11/2024 12:23	26002	WDAM_T1	0	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0
5/11/2024 12:23	26001	WDAM_T1	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
5/11/2024 12:24	51102	CARL_T1	4	2	-2	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
5/11/2024 12:24	51109	CARL_T1	0	0	0	0	0	0	-1.04	-1.01	1	1	0	1200	1200	0
5/11/2024 12:28	51102	CARL_T1	4	2	-2	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
5/11/2024 12:28	51108	CARL_T1	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
5/11/2024 12:28	60101	COCA_T1	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
5/11/2024 12:28	60102	COCA_T1	0	0	0	0	0	0	0.56	0.68	1	1	0	600	600	0
5/11/2024 12:28	63305	GREE_T1	0	0	0	0	0	0	-1.44	-1.46	0	0	0	0	0	0
5/11/2024 12:30	63305	GREE_T1	0	0	0	0	0	0	-1.44	-1.46	0	0	0	0	0	0
5/11/2024 12:31	64704	LITI_T1	0	0	0	0	0	0	-0.12	-0.13	1	1	0	600	600	0
5/11/2024 12:32	42902	MIDD_T2	1	3	2	0.2	0.33	0.13	-0.72	-0.72	0	0	0	0	0	0
5/11/2024 12:32	63202	MGTN_T2	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
5/11/2024 12:32	42903	MIDD_T2	2	2	0	1	1.8	0.8	0	0	0	0	0	0	0	0
5/11/2024 12:35	42902	MIDD_T2	1	3	2	0.2	0.33	0.13	-0.72	-0.72	0	0	0	0	0	0
5/11/2024 12:35	42903	MIDD_T2	2	2	0	1	1.8	0.8	0	0	0	0	0	0	0	0
5/11/2024 12:37	65601	QVIL_T2	0	0	0	0	0	0	-1.2	-1.12	1	1	0	900	900	0
5/11/2024 12:39	45602	WOOL_T1	2	5	3	0.5	1.84	1.34	0.41	0.41	0	0	0	0	0	0
5/11/2024 12:39	42701	AUGU_T1	0	1	1	0	0.4	0.4	0	0	4	4	0	3600	3600	0
5/11/2024 12:40	44301	BEAV_T2	6	5	-1	0.37	0.32	-0.05	-0.53	-0.53	1	1	0	600	600	0
5/11/2024 12:40	44302	BEAV_T2	4	9	5	0.33	0.56	0.23	0	0	0	0	0	0	0	0
5/11/2024 12:40	45602	WOOL_T1	2	5	3	0.5	1.84	1.34	0.82	0.82	0	0	0	0	0	0
5/11/2024 12:41	45601	WOOL_T1	0	0	0	0	0	0	-0.16	-0.18	1	1	0	1200	1200	0
5/11/2024 12:41	45602	WOOL_T1	2	5	3	0.5	1.84	1.34	0	0	0	0	0	0	0	0
5/11/2024 12:43	42701	AUGU_T1	0	1	1	0	0.4	0.4	0	0	2	2	0	1800	1800	0
5/11/2024 12:44	53501	EVIL_T2	3	3	0	0.77	0.37	-0.4	0	0	0	0	0	0	0	0
5/11/2024 12:44	53502	EVIL_T2	0	0	0	0	0	0	0.63	0.66	0	0	0	0	0	0
5/11/2024 12:45	12001	HATF_T1	0	0	0	0	0	0	0.93	1.09	1	1	0	600	600	0
5/11/2024 12:45	12003	HATF_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/11/2024 12:45	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 12:45	12006	HATF_T1	1	1	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
5/11/2024 12:47	12006	HATF_T1	1	1	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
5/11/2024 12:47	12003	HATF_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/11/2024 12:47	12001	HATF_T1	0	0	0	0	0	0	0.93	1.09	1	1	0	600	600	0
5/11/2024 12:47	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 12:49	60104	COCA_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
5/11/2024 12:49	60103	COCA_T2	0	0	0	0	0	0	0.12	0.11	1	1	0	900	900	0
5/11/2024 12:53	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/11/2024 12:53	67603	WARW_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
5/11/2024 12:53	65603	QVIL_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
5/11/2024 12:53	67605	WARW_T1	23	31	8	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
5/11/2024 12:54	67605	WARW_T1	23	31	8	0.7	0.6	-0.1	-1.15	-1.18	0	0	0	0	0	0
5/11/2024 12:54	67603	WARW_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
5/11/2024 12:59	67605	WARW_T1	23	31	8	0.7	0.6	-0.1	-1.15	-1.18	0	0	0	0	0	0
5/11/2024 12:59	67603	WARW_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
5/11/2024 12:59	47203	FAXO_T2	0	0	0	0	0	0	-2.29	-2.25	1	1	0	1200	1200	0
5/11/2024 12:59	47201	FAXO_T2	1	0	-1	4.7	0	-4.7	0	0	0	0	0	0	0	0
5/11/2024 13:00	40101	HUNT_T2	0	0	0	0	0	0	-0.66	-0.71	0	0	0	0	0	0
5/11/2024 13:09	67603	WARW_T1	2	1	-1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
5/11/2024 13:09	67605	WARW_T1	28	31	3	0.64	0.6	-0.04	-1.18	-1.15	0	0	0	0	0	0
5/11/2024 13:09	13704	SCHN_T2	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
5/11/2024 13:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/11/2024 13:10	67601	WARW_T2	0	0	0	0	0	0	-0.65	-0.74	0	0	0	0	0	0
5/11/2024 13:10	29402	BELT_T1	3	1	-2	2.47	7	4.53	0	0	0	0	0	0	0	0
5/11/2024 13:11	60102	COCA_T1	0	0	0	0	0	0	0.48	0.48	1	1	0	600	600	0
5/11/2024 13:11	60101	COCA_T1	1	3	2	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
5/11/2024 13:11	15103	UPHA_T2	1	2	1	0.5	0.45	-0.05	0.35	0.35	0	0	0	0	0	0
5/11/2024 13:12	11205	ELHE_T1	0	0	0	0	0	0	-0.98	-0.98	1	1	0	1200	1200	0
5/11/2024 13:13	44302	BEAV_T2	9	15	6	0.56	0.57	0.01	0	0	0	0	0	0	0	0
5/11/2024 13:13	44301	BEAV_T2	5	8	3	0.28	0.49	0.21	-0.54	-0.5	1	1	0	600	600	0
5/11/2024 13:14	67603	WARW_T1	2	1	-1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
5/11/2024 13:14	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
5/11/2024 13:14	67605	WARW_T1	28	31	3	0.64	0.6	-0.04	-1.18	-1.15	0	0	0	0	0	0
5/11/2024 13:15	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.68	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/11/2024 13:16	41801	GOCI_T2	7	11	4	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
5/11/2024 13:17	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
5/11/2024 13:19	65604	QVIL_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
5/11/2024 13:20	65401	MARI_T1	2	3	1	0.15	0.23	0.08	0.3	0.28	0	0	0	0	0	0
5/11/2024 13:20	65402	MARI_T1	3	3	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/11/2024 13:21	14601	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/11/2024 13:21	14603	SWHI_T1	0	4	4	0	0.35	0.35	-3.28	-3.38	4	4	0	2400	2400	0
5/11/2024 13:21	14602	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/11/2024 13:21	47401	PENS_T1	7	24	17	0.46	0.35	-0.11	4.13	4.34	0	0	0	0	0	0
5/11/2024 13:21	47402	PENS_T1	3	4	1	0.67	0.78	0.11	0	0	0	0	0	0	0	0
5/11/2024 13:21	47403	PENS_T1	5	19	14	0.3	0.37	0.07	0	0	0	0	0	0	0	0
5/11/2024 13:22	27502	WEIS_T2	0	4	4	0	0.65	0.65	-0.66	-0.69	0	0	0	0	0	0
5/11/2024 13:22	47402	PENS_T1	3	4	1	0.67	0.78	0.11	0	0	0	0	0	0	0	0
5/11/2024 13:22	47401	PENS_T1	7	24	17	0.46	0.35	-0.11	2.06	2.17	0	0	0	0	0	0
5/11/2024 13:22	47403	PENS_T1	5	19	14	0.3	0.37	0.07	0	0	0	0	0	0	0	0
5/11/2024 13:23	47402	PENS_T1	3	4	1	0.67	0.78	0.11	0	0	0	0	0	0	0	0
5/11/2024 13:23	47403	PENS_T1	5	19	14	0.3	0.37	0.07	0	0	0	0	0	0	0	0
5/11/2024 13:23	47401	PENS_T1	7	24	17	0.46	0.35	-0.11	1.03	1.08	0	0	0	0	0	0
5/11/2024 13:24	13302	ORVI_T2	1	2	1	1.3	1.05	-0.25	1.48	1.49	0	0	0	0	0	0
5/11/2024 13:25	26002	WDAM_T1	6	2	-4	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
5/11/2024 13:25	26001	WDAM_T1	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
5/11/2024 13:25	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/11/2024 13:27	51107	CARL_T1	0	0	0	0	0	0	-0.4	-0.43	0	0	0	0	0	0
5/11/2024 13:27	51102	CARL_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
5/11/2024 13:28	60101	COCA_T1	2	4	2	0.4	0.58	0.18	0.22	0.2	0	0	0	0	0	0
5/11/2024 13:30	61701	ELIZ_T1	1	1	0	4.2	4.4	0.2	0.26	0.13	0	0	0	0	0	0
5/11/2024 13:30	52004	LING_T2	0	0	0	0	0	0	0.06	0	0	0	0	0	0	0
5/11/2024 13:32	14203	EALL_T1	1	0	-1	0.1	0	-0.1	-0.44	-0.41	1	1	0	1200	1200	0
5/11/2024 13:33	53903	HALI_T2	2	5	3	0.2	0.76	0.56	0	0	0	0	0	0	0	0
5/11/2024 13:33	53902	HALI_T2	1	2	1	4.9	2.7	-2.2	0	0	0	0	0	0	0	0
5/11/2024 13:33	53901	HALI_T2	1	2	1	0.1	0.3	0.2	-1.04	-1.03	0	0	0	0	0	0
5/11/2024 13:35	47403	PENS_T1	9	25	16	0.23	0.47	0.24	0	0	0	0	0	0	0	0
5/11/2024 13:35	47402	PENS_T1	3	5	2	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/11/2024 13:35	47401	PENS_T1	21	21	0	0.3	0.4	0.1	1.08	1.09	0	0	0	0	0	0
5/11/2024 13:36	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.21	1	1	0	600	600	0
5/11/2024 13:37	15103	UPHA_T2	1	2	1	0.6	0.6	0	0.35	0.37	0	0	0	0	0	0
5/11/2024 13:38	44301	BEAV_T2	8	9	1	0.49	0.44	-0.05	-0.5	-0.49	1	1	0	600	600	0
5/11/2024 13:38	44302	BEAV_T2	12	16	4	0.55	0.68	0.13	0	0	0	0	0	0	0	0
5/11/2024 13:41	45501	DERR_T2	1	1	0	0.5	0.5	0	-0.57	-0.58	2	2	0	1800	1800	0
5/11/2024 13:41	61101	BERK_T5	1	0	-1	0.1	0	-0.1	-1.06	-1.05	0	0	0	0	0	0
5/11/2024 13:42	45501	DERR_T2	1	1	0	0.5	0.5	0	-0.57	-0.58	2	2	0	1800	1800	0
5/11/2024 13:43	44301	BEAV_T2	8	9	1	0.49	0.44	-0.05	0	0	0	0	0	0	0	0
5/11/2024 13:43	44302	BEAV_T2	12	16	4	0.55	0.68	0.13	0.41	0.39	0	0	0	0	0	0
5/11/2024 13:43	61102	BERK_T5	0	0	0	0	0	0	0.96	1.04	2	2	0	600	600	0
5/11/2024 13:43	61101	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/11/2024 13:43	51107	CARL_T1	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
5/11/2024 13:43	45501	DERR_T2	1	1	0	0.5	0.5	0	-0.57	-0.58	2	2	0	1800	1800	0
5/11/2024 13:44	61101	BERK_T5	1	0	-1	0.1	0	-0.1	-1.06	-1.05	0	0	0	0	0	0
5/11/2024 13:46	13503	MCMI_T2	175	216	41	0.32	0.45	0.13	-0.98	-0.98	0	0	0	0	0	0
5/11/2024 13:47	47103	MARI_T2	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
5/11/2024 13:47	56803	BENV_T1	3	5	2	0.8	0.78	-0.02	0	0	0	0	0	0	0	0
5/11/2024 13:47	56801	BENV_T1	25	22	-3	0.9	0.86	-0.04	-0.15	-0.17	0	0	0	0	0	0
5/11/2024 13:48	13503	MCMI_T2	175	216	41	0.32	0.45	0.13	-0.98	-0.98	0	0	0	0	0	0
5/11/2024 13:48	44505	HAMI_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
5/11/2024 13:48	44503	HAMI_T2	0	0	0	0	0	0	-1.75	-1.74	1	1	0	1200	1200	0
5/11/2024 13:48	44502	HAMI_T2	1	3	2	2.9	1.03	-1.87	0	0	0	0	0	0	0	0
5/11/2024 13:49	12701	MAGU_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/11/2024 13:50	47103	MARI_T2	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
5/11/2024 13:51	43801	SWIL_T1	2	2	0	3.3	3.3	0	0	0	0	0	0	0	0	0
5/11/2024 13:51	14601	SWHI_T1	1	0	-1	0.3	0	-0.3	-1.86	-1.94	0	0	0	0	0	0
5/11/2024 13:51	14603	SWHI_T1	3	1	-2	0.37	0.7	0.33	0	0	0	0	0	0	0	0
5/11/2024 13:51	43802	SWIL_T1	0	1	1	0	0.1	0.1	-0.12	-0.12	1	1	0	600	600	0
5/11/2024 13:54	60101	COCA_T1	3	3	0	0.6	0.37	-0.23	0.22	0.31	0	0	0	0	0	0
5/11/2024 13:55	57506	LAWN_T3	0	0	0	0	0	0	0.52	0.47	1	1	0	600	600	0
5/11/2024 14:02	46004	BERW_T2	0	0	0	0	0	0	-0.59	-0.58	0	0	0	0	0	0
5/11/2024 14:03	40101	HUNT_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
5/11/2024 14:04	58401	MORO_T1	0	0	0	0	0	0	-1.18	-1.19	1	1	0	600	600	0
5/11/2024 14:08	14103	TRUM_T2	0	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0
5/11/2024 14:08	14102	TRUM_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
5/11/2024 14:08	14101	TRUM_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
5/11/2024 14:09	57401	SPAN_T1	1	4	3	0.2	0.83	0.63	0	0	0	0	0	0	0	0
5/11/2024 14:09	57403	SPAN_T1	1	2	1	0.7	0.6	-0.1	-0.05	-0.06	0	0	0	0	0	0
5/11/2024 14:11	54601	SUMM_T2	0	0	0	0	0	0	-1.9	-1.86	2	2	0	2100	2100	0
5/11/2024 14:13	61506	EPET_T2	0	0	0	0	0	0	-1.32	-1.29	1	1	0	900	900	0
5/11/2024 14:13	27502	WEIS_T2	0	0	0	0	0	0	-1.44	-1.49	0	0	0	0	0	0
5/11/2024 14:13	61501	EPET_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
5/11/2024 14:14	53501	EVIL_T2	11	9	-2	0.39	0.51	0.12	0	0	0	0	0	0	0	0
5/11/2024 14:14	53502	EVIL_T2	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
5/11/2024 14:19	66202	SISP_T2	0	0	0	0	0	0	-0.85	-0.84	0	0	0	0	0	0
5/11/2024 14:20	57401	SPAN_T1	4	3	-1	0.43	1.03	0.6	-1.18	-1.21	1	1	0	600	600	0
5/11/2024 14:20	57403	SPAN_T1	2	2	0	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
5/11/2024 14:21	41504	FAIR_T2	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
5/11/2024 14:21	66202	SISP_T2	0	0	0	0	0	0	-0.85	-0.84	0	0	0	0	0	0
5/11/2024 14:21	58401	MORO_T1	0	0	0	0	0	0	-2.38	-2.44	2	2	0	1200	1200	0
5/11/2024 14:22	14802	TREI_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
5/11/2024 14:23	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.22	1	1	0	600	600	0
5/11/2024 14:24	66203	SISP_T2	0	0	0	0	0	0	-1.4	-1.32	1	1	0	1200	1200	0
5/11/2024 14:28	61304	EARL_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/11/2024 14:28	61302	EARL_T1	1	0	-1	0.3	0	-0.3	0.01	-0.03	2	2	0	1800	1800	0
5/11/2024 14:29	12006	HATF_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/11/2024 14:29	12002	HATF_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
5/11/2024 14:30	66303	MCGO_T2	1	2	1	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
5/11/2024 14:30	66302	MCGO_T2	0	0	0	0	0	0	-0.89	-0.89	0	0	0	0	0	0
5/11/2024 14:32	41802	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 14:32	66302	MCGO_T2	0	0	0	0	0	0	-0.89	-0.89	0	0	0	0	0	0
5/11/2024 14:32	66303	MCGO_T2	1	2	1	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
5/11/2024 14:32	44505	HAMI_T2	5	6	1	0.32	0.27	-0.05	0	0	0	0	0	0	0	0
5/11/2024 14:32	41801	GOCI_T2	6	148	142	0.55	0.27	-0.28	0	0	0	0	0	0	0	0
5/11/2024 14:32	44502	HAMI_T2	1	2	1	2.5	1.35	-1.15	0	0	0	0	0	0	0	0
5/11/2024 14:32	44503	HAMI_T2	0	0	0	0	0	0	-1.74	-1.74	1	1	0	1200	1200	0
5/11/2024 14:34	47402	PENS_T1	5	3	-2	0.74	1.07	0.33	0	0	0	0	0	0	0	0
5/11/2024 14:34	47403	PENS_T1	7	4	-3	0.49	0.43	-0.06	0	0	0	0	0	0	0	0
5/11/2024 14:34	47401	PENS_T1	6	8	2	0.82	0.65	-0.17	1.23	1.09	0	0	0	0	0	0
5/11/2024 14:35	60501	NMAN_T2	3	3	0	3.9	4.3	0.4	0	0	0	0	0	0	0	0
5/11/2024 14:35	60502	NMAN_T2	0	1	1	0	0.2	0.2	-0.6	-0.61	0	0	0	0	0	0
5/11/2024 14:35	60504	NMAN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
5/11/2024 14:36	47403	PENS_T1	7	4	-3	0.49	0.43	-0.06	0	0	0	0	0	0	0	0
5/11/2024 14:36	47402	PENS_T1	5	3	-2	0.74	1.07	0.33	0	0	0	0	0	0	0	0
5/11/2024 14:36	47401	PENS_T1	6	8	2	0.82	0.65	-0.17	1.23	1.09	0	0	0	0	0	0
5/11/2024 14:37	58401	MORO_T1	0	0	0	0	0	0	-2.44	-2.44	2	2	0	1200	1200	0
5/11/2024 14:38	45402	WBLO_T2	0	0	0	0	0	0	-1.76	-1.72	1	1	0	900	900	0
5/11/2024 14:42	45501	DERR_T2	1	3	2	0.3	0.4	0.1	-0.48	-0.55	2	2	0	1800	1800	0
5/11/2024 14:43	62102	ELAN_T1	0	0	0	0	0	0	0.49	0.54	0	0	0	0	0	0
5/11/2024 14:44	67605	WARW_T1	35	33	-2	0.58	0.58	0	-1.15	-1.16	0	0	0	0	0	0
5/11/2024 14:46	56802	BENV_T2	6	2	-4	0.5	0.55	0.05	-0.75	-0.76	0	0	0	0	0	0
5/11/2024 14:48	56802	BENV_T2	6	2	-4	0.5	0.55	0.05	-0.75	-0.76	0	0	0	0	0	0
5/11/2024 14:49	67605	WARW_T1	32	32	0	0.6	0.54	-0.06	-1.15	-1.16	0	0	0	0	0	0
5/11/2024 14:52	65402	MARI_T1	4	5	1	0.35	0.54	0.19	0	0	0	0	0	0	0	0
5/11/2024 14:52	65401	MARI_T1	5	6	1	0.2	0.32	0.12	0.32	0.33	0	0	0	0	0	0
5/11/2024 14:55	43302	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/11/2024 14:55	13302	ORVI_T2	1	3	2	0.3	0.73	0.43	1.39	1.43	0	0	0	0	0	0
5/11/2024 14:59	67605	WARW_T1	32	32	0	0.6	0.54	-0.06	-1.16	-1.15	0	0	0	0	0	0
5/11/2024 15:04	67605	WARW_T1	32	30	-2	0.51	0.55	0.04	-1.16	-1.15	0	0	0	0	0	0
5/11/2024 15:07	60504	NMAN_T2	2	2	0	0.45	0.95	0.5	0	0	0	0	0	0	0	0
5/11/2024 15:07	60501	NMAN_T2	3	3	0	4.3	4.73	0.43	0	0	0	0	0	0	0	0
5/11/2024 15:07	60502	NMAN_T2	1	2	1	0.2	0.2	0	-0.52	-0.55	0	0	0	0	0	0
5/11/2024 15:07	13303	ORVI_T1	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
5/11/2024 15:12	20105	AVOC_T1	0	0	0	0	0	0	-0.26	-0.22	0	0	0	0	0	0
5/11/2024 15:12	20103	AVOC_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
5/11/2024 15:13	61502	EPET_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/11/2024 15:13	61503	EPET_T1	0	0	0	0	0	0	-0.95	-1.01	0	0	0	0	0	0
5/11/2024 15:14	67605	WARW_T1	32	30	-2	0.51	0.55	0.04	-1.15	-1.18	0	0	0	0	0	0
5/11/2024 15:15	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.71	0	0	0	0	0	0
5/11/2024 15:19	67605	WARW_T1	30	30	0	0.54	0.58	0.04	-1.15	-1.18	0	0	0	0	0	0
5/11/2024 15:22	67204	TEHI_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
5/11/2024 15:23	67204	TEHI_T2	0	0	0	0	0	0	-0.27	-0.26	0	0	0	0	0	0
5/11/2024 15:26	67601	WARW_T2	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
5/11/2024 15:28	67603	WARW_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
5/11/2024 15:28	67605	WARW_T1	30	30	0	0.54	0.58	0.04	0	0	0	0	0	0	0	0
5/11/2024 15:29	67603	WARW_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
5/11/2024 15:29	67605	WARW_T1	30	30	0	0.54	0.58	0.04	0	0	0	0	0	0	0	0
5/11/2024 15:30	67603	WARW_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
5/11/2024 15:30	67605	WARW_T1	21	34	13	0.63	0.61	-0.02	-1.18	-1.17	0	0	0	0	0	0
5/11/2024 15:34	67605	WARW_T1	21	34	13	0.63	0.61	-0.02	-1.18	-1.17	0	0	0	0	0	0
5/11/2024 15:34	67603	WARW_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
5/11/2024 15:37	67703	WERN_T2	0	1	1	0	0.3	0.3	-0.32	-0.95	1	1	0	900	900	0
5/11/2024 15:38	67703	WERN_T2	0	1	1	0	0.3	0.3	-0.95	-0.95	1	1	0	900	900	0
5/11/2024 15:39	56501	ROCK_T2	0	6	6	0	0.58	0.58	-0.01	-0.01	0	0	0	0	0	0
5/11/2024 15:39	16301	ALPA_T1	0	1	1	0	0.1	0.1	-0.38	-0.39	0	0	0	0	0	0
5/11/2024 15:39	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 15:40	14802	TREI_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
5/11/2024 15:41	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/11/2024 15:41	67703	WERN_T2	0	1	1	0	0.3	0.3	-0.95	-0.95	1	1	0	900	900	0
5/11/2024 15:44	67605	WARW_T1	21	34	13	0.63	0.61	-0.02	-1.17	-1.16	0	0	0	0	0	0
5/11/2024 15:44	61803	EELI_T2	0	0	0	0	0	0	0.16	0.13	1	1	0	600	600	0
5/11/2024 15:48	56802	BENV_T2	5	81	76	0.46	0.16	-0.3	-0.73	-0.73	0	0	0	0	0	0
5/11/2024 15:49	67605	WARW_T1	30	33	3	0.57	0.61	0.04	-1.17	-1.16	0	0	0	0	0	0
5/11/2024 15:50	55003	NEWP_T2	8	13	5	0.41	0.54	0.13	-1	-1.01	1	1	0	600	600	0
5/11/2024 15:51	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/11/2024 15:51	67002	STHI_T2	0	0	0	0	0	0	1.21	1.14	0	0	0	0	0	0
5/11/2024 15:51	66202	SISP_T2	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
5/11/2024 15:52	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/11/2024 15:53	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/11/2024 15:53	67002	STHI_T2	0	0	0	0	0	0	0.57	0.61	0	0	0	0	0	0
5/11/2024 15:53	67703	WERN_T2	1	0	-1	0.3	0	-0.3	-3.82	-3.8	4	4	0	3600	3600	0
5/11/2024 15:53	57006	WHHI_T2	0	0	0	0	0	0	0.31	0.93	1	0	-1	600	0	-600
5/11/2024 15:53	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/11/2024 15:53	57003	WHHI_T2	4	3	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
5/11/2024 15:54	65202	PRIN_T1	1	0	-1	2.9	0	-2.9	0	0	0	0	0	0	0	0
5/11/2024 15:54	66202	SISP_T2	0	0	0	0	0	0	-0.88	-0.86	0	0	0	0	0	0
5/11/2024 15:54	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/11/2024 15:54	67002	STHI_T2	0	0	0	0	0	0	0.57	0.61	0	0	0	0	0	0
5/11/2024 15:54	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/11/2024 15:54	65205	PRIN_T1	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
5/11/2024 15:54	65203	PRIN_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	900	900	0
5/11/2024 15:55	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/11/2024 15:55	67804	WLAN_T1	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/11/2024 15:55	57006	WHHI_T2	0	0	0	0	0	0	0.31	0.93	0	0	0	0	0	0
5/11/2024 15:55	67803	WLAN_T1	0	0	0	0	0	0	-1.56	-1.58	0	0	0	0	0	0
5/11/2024 15:55	57003	WHHI_T2	4	3	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
5/11/2024 15:56	66202	SISP_T2	0	0	0	0	0	0	-0.88	-0.86	0	0	0	0	0	0
5/11/2024 16:02	67703	WERN_T2	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
5/11/2024 16:04	51702	OBER_T1	2	2	0	3.4	3.1	-0.3	-3.52	-3.68	0	0	0	0	0	0
5/11/2024 16:05	51702	OBER_T1	2	2	0	3.4	3.1	-0.3	-1.76	-1.84	0	0	0	0	0	0
5/11/2024 16:06	51702	OBER_T1	2	2	0	3.4	3.1	-0.3	-1.76	-1.84	0	0	0	0	0	0
5/11/2024 16:07	59202	THOM_T1	610	440	-170	0.53	0.47	-0.06	0	0	0	0	0	0	0	0
5/11/2024 16:07	59201	THOM_T1	60	28	-32	0.45	0.46	0.01	0	0	0	0	0	0	0	0
5/11/2024 16:08	59202	THOM_T1	610	440	-170	0.53	0.47	-0.06	0	0	0	0	0	0	0	0
5/11/2024 16:08	59201	THOM_T1	60	28	-32	0.45	0.46	0.01	0	0	0	0	0	0	0	0
5/11/2024 16:17	51004	NHAR_T1	12	13	1	0.88	0.82	-0.06	-0.43	-0.44	0	0	0	0	0	0
5/11/2024 16:17	51002	NHAR_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/11/2024 16:37	20403	ASHF_T2	0	0	0	0	0	0	0.03	0.06	0	0	0	0	0	0
5/11/2024 16:37	20401	ASHF_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
5/11/2024 16:38	17002	RIRO_T2	1	2	1	0.1	0.3	0.2	0.33	0.31	0	0	0	0	0	0
5/11/2024 16:56	60901	DONG_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/11/2024 16:56	60904	DONG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 16:56	60902	DONG_T2	0	0	0	0	0	0	0.64	0.6	0	0	0	0	0	0
5/11/2024 16:56	62607	ENGL_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/11/2024 16:56	62601	ENGL_T1	0	1	1	0	0	0	-1.52	-1.51	0	0	0	0	0	0
5/11/2024 16:58	11805	FRAN_T1	0	0	0	0	0	0	-1.52	-1.62	1	1	0	1200	1200	0
5/11/2024 16:58	11804	FRAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/11/2024 16:59	67605	WARW_T1	9	15	6	0.36	0.47	0.11	-1.13	-1.14	0	0	0	0	0	0
5/11/2024 16:59	62607	ENGL_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/11/2024 16:59	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 16:59	62605	ENGL_T1	0	0	0	0	0	0	-1.93	-1.87	0	0	0	0	0	0
5/11/2024 17:01	62605	ENGL_T1	0	0	0	0	0	0	-1.93	-1.87	0	0	0	0	0	0
5/11/2024 17:01	62607	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/11/2024 17:02	65401	MARI_T1	42	0	-42	0.11	0	-0.11	0	0	0	0	0	0	0	0
5/11/2024 17:02	65402	MARI_T1	2	0	-2	0.2	0	-0.2	-0.3	-0.31	0	0	0	0	0	0
5/11/2024 17:04	67605	WARW_T1	15	25	10	0.43	0.57	0.14	-1.13	-1.14	0	0	0	0	0	0
5/11/2024 17:05	66001	RHEE_T2	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
5/11/2024 17:05	59003	MIFF_T1	1	1	0	0.4	0.7	0.3	-0.67	-0.56	0	0	0	0	0	0
5/11/2024 17:05	59002	MIFF_T1	1	4	3	0.2	0.25	0.05	0	0	0	0	0	0	0	0
5/11/2024 17:05	66002	RHEE_T2	13	2	-11	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
5/11/2024 17:07	66002	RHEE_T2	13	2	-11	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
5/11/2024 17:07	66001	RHEE_T2	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
5/11/2024 17:07	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 17:07	65205	PRIN_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
5/11/2024 17:08	66002	RHEE_T2	13	2	-11	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
5/11/2024 17:08	66001	RHEE_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
5/11/2024 17:08	65205	PRIN_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
5/11/2024 17:20	65702	RVIL_T2	0	0	0	0	0	0	-1.03	-1.05	1	1	0	600	600	0
5/11/2024 17:21	65702	RVIL_T2	0	0	0	0	0	0	-1.03	-1.05	1	1	0	600	600	0
5/11/2024 17:22	65804	RTWN_T1	0	0	0	0	0	0	-0.27	-0.27	1	1	0	600	600	0
5/11/2024 17:22	65702	RVIL_T2	0	0	0	0	0	0	-2.06	-2.1	2	2	0	1200	1200	0
5/11/2024 17:23	65801	RTWN_T1	0	0	0	0	0	0	-1.1	-1.04	2	2	0	1200	1200	0
5/11/2024 17:25	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.1	0	0	0	0	0	0
5/11/2024 17:28	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 17:35	27605	PIRI_T2	0	0	0	0	0	0	-0.72	-0.29	1	1	0	900	900	0
5/11/2024 17:38	65702	RVIL_T2	0	0	0	0	0	0	-1.02	-1.07	1	1	0	600	600	0
5/11/2024 17:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 17:48	50107	HARR_T3	0	0	0	0	0	0	0.43	0.48	0	0	0	0	0	0
5/11/2024 17:48	50103	HARR_T3	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/11/2024 17:48	50201	HARR_T3	2	1	-1	10	9.8	-0.2	0	0	0	0	0	0	0	0
5/11/2024 17:48	50105	HARR_T3	6	6	0	5.9	5.75	-0.15	0	0	0	0	0	0	0	0
5/11/2024 17:55	66202	SISP_T2	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
5/11/2024 18:00	12006	HATF_T1	0	0	0	0	0	0	0.53	0.44	0	0	0	0	0	0
5/11/2024 18:10	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 18:22	16902	MECK_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
5/11/2024 18:23	56501	ROCK_T2	3	3	0	0.37	0.57	0.2	-0.01	-0.01	0	0	0	0	0	0
5/11/2024 18:36	14404	SSLA_T1	1	1	0	3.4	3.6	0.2	-0.01	0	0	0	0	0	0	0
5/11/2024 18:42	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/11/2024 18:42	62102	ELAN_T1	0	0	0	0	0	0	0.58	0.52	0	0	0	0	0	0
5/11/2024 19:10	49804	UNIV_T1	0	1	1	0	0.2	0.2	0.34	0.34	0	0	0	0	0	0
5/11/2024 19:14	45501	DERR_T2	0	0	0	0	0	0	-0.88	-0.87	2	2	0	1800	1800	0
5/11/2024 19:23	24802	VALM_T1	0	0	0	0	0	0	1.92	1.88	0	0	0	0	0	0
5/11/2024 20:11	12505	MITR_T2	0	0	0	0	0	0	0.11	0.17	0	0	0	0	0	0
5/11/2024 20:11	41902	REED_T1	1	0	-1	0.1	0	-0.1	0.8	0.86	0	0	0	0	0	0
5/11/2024 20:11	12502	MITR_T2	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
5/11/2024 20:11	11904	ETEX_T2	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
5/11/2024 20:17	24501	GOUL_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/11/2024 20:19	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 20:23	46004	BERW_T2	0	0	0	0	0	0	-0.64	-0.67	0	0	0	0	0	0
5/11/2024 20:25	16302	ALPA_T2	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
5/11/2024 20:26	67402	WAKE_T2	0	0	0	0	0	0	-0.54	-0.55	1	1	0	600	600	0
5/11/2024 20:31	45902	AUBU_T1	0	0	0	0	0	0	-0.67	-0.61	0	0	0	0	0	0
5/11/2024 20:31	67402	WAKE_T2	0	0	0	0	0	0	-0.54	-0.55	1	1	0	600	600	0
5/11/2024 20:31	59101	WALK_T2	0	0	0	0	0	0	1.34	1.31	0	0	0	0	0	0
5/11/2024 20:37	42201	SHEN_T2	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
5/11/2024 20:37	56802	BENV_T2	1	1	0	0.4	0.2	-0.2	-1.53	-1.46	0	0	0	0	0	0
5/11/2024 20:51	52004	LING_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
5/11/2024 20:57	13901	SEID_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
5/11/2024 20:57	14702	TREX_T2	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
5/11/2024 20:59	14702	TREX_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
5/11/2024 20:59	59101	WALK_T2	0	0	0	0	0	0	1.41	1.32	0	0	0	0	0	0
5/11/2024 21:07	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 21:08	55002	NEWP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/11/2024 21:08	55001	NEWP_T1	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
5/11/2024 21:08	66504	SMAN_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
5/11/2024 21:08	66505	SMAN_T2	2	3	1	0.4	0.57	0.17	0	0	0	0	0	0	0	0
5/11/2024 21:09	55001	NEWP_T1	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
5/11/2024 21:09	55002	NEWP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/11/2024 21:10	54602	SUMM_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
5/11/2024 21:10	54601	SUMM_T2	6	8	2	0.27	0.43	0.16	-1.97	-1.97	2	2	0	2100	2100	0
5/11/2024 21:15	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
5/11/2024 21:15	53901	HALI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/11/2024 21:15	53903	HALI_T2	2	2	0	1.3	1.6	0.3	-0.19	-0.2	0	0	0	0	0	0
5/11/2024 21:17	65801	RTWN_T1	0	0	0	0	0	0	-1.23	-1.25	2	2	0	1200	1200	0
5/11/2024 21:18	53901	HALI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/11/2024 21:18	53903	HALI_T2	2	2	0	1.3	1.6	0.3	-0.37	-0.39	0	0	0	0	0	0
5/11/2024 21:18	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
5/11/2024 21:21	47001	HUGH_T2	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
5/11/2024 21:23	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 21:23	56501	ROCK_T2	7	10	3	0.46	0.49	0.03	0	0	0	0	0	0	0	0
5/11/2024 21:25	57505	LAWN_T3	1	5	4	0.1	0.14	0.04	0.5	0.49	0	0	0	0	0	0
5/11/2024 21:34	63601	LETO_T1	0	0	0	0	0	0	1.07	1.05	1	1	0	900	900	0
5/11/2024 21:35	47001	HUGH_T2	0	0	0	0	0	0	-0.98	-1	0	0	0	0	0	0
5/11/2024 21:39	50105	HARR_T3	7	7	0	6.3	6.05	-0.25	0	0	0	0	0	0	0	0
5/11/2024 21:39	50201	HARR_T3	1	1	0	8.5	9.4	0.9	0	0	0	0	0	0	0	0
5/11/2024 21:39	50103	HARR_T3	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/11/2024 21:39	50107	HARR_T3	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
5/11/2024 21:41	45501	DERR_T2	0	0	0	0	0	0	-0.86	-0.85	2	2	0	1800	1800	0
5/11/2024 21:41	67001	STHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/11/2024 21:41	61303	EARL_T1	0	0	0	0	0	0	-0.16	-0.14	0	0	0	0	0	0
5/11/2024 21:41	67002	STHI_T2	0	0	0	0	0	0	0.46	0.49	0	0	0	0	0	0
5/11/2024 21:42	57505	LAWN_T3	5	1	-4	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
5/11/2024 21:42	57501	LAWN_T3	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
5/11/2024 21:42	13503	MCMI_T2	57	52	-5	0.27	0.23	-0.04	-1	-0.99	0	0	0	0	0	0
5/11/2024 21:43	57503	LAWN_T3	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
5/11/2024 21:43	57505	LAWN_T3	5	1	-4	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
5/11/2024 21:43	13704	SCHN_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
5/11/2024 21:44	52004	LING_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
5/11/2024 21:45	53502	EVIL_T2	0	1	1	0	0	0	0.53	0.51	0	0	0	0	0	0
5/11/2024 21:45	13503	MCMI_T2	51	87	36	0.23	0.23	0	-1	-0.99	0	0	0	0	0	0
5/11/2024 21:45	53501	EVIL_T2	2	5	3	0.4	0.64	0.24	0	0	0	0	0	0	0	0
5/11/2024 21:45	29402	BELT_T1	103	96	-7	0.96	0.62	-0.34	0	0	0	0	0	0	0	0
5/11/2024 21:46	45501	DERR_T2	0	0	0	0	0	0	-0.86	-0.85	2	2	0	1800	1800	0
5/11/2024 21:46	53501	EVIL_T2	2	5	3	0.4	0.64	0.24	-0.77	-0.83	0	0	0	0	0	0
5/11/2024 21:46	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 21:47	63602	LETO_T1	0	0	0	0	0	0	-0.59	-0.66	0	0	0	0	0	0
5/11/2024 21:48	66001	RHEE_T2	0	0	0	0	0	0	0.12	0.19	0	0	0	0	0	0
5/11/2024 21:48	13302	ORVI_T2	0	0	0	0	0	0	1.27	1.32	0	0	0	0	0	0
5/11/2024 21:48	16101	BING_T2	0	0	0	0	0	0	0.32	0.36	0	0	0	0	0	0
5/11/2024 21:49	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/11/2024 21:49	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	-0.48	-0.48	0	0	0	0	0	0
5/11/2024 21:49	65401	MARI_T1	0	1	1	0	0.1	0.1	0.21	0.18	0	0	0	0	0	0
5/11/2024 21:49	13503	MCMI_T2	51	87	36	0.23	0.23	0	-1	-0.99	0	0	0	0	0	0
5/11/2024 21:50	13302	ORVI_T2	0	0	0	0	0	0	1.27	1.32	0	0	0	0	0	0
5/11/2024 21:50	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 21:50	47103	MARI_T2	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
5/11/2024 21:50	60102	COCA_T1	0	0	0	0	0	0	0.2	0.47	1	1	0	600	600	0
5/11/2024 21:50	65001	NEFF_T2	0	25	25	0	0.11	0.11	-1.43	-1.4	1	1	0	1200	1200	0
5/11/2024 21:50	57505	LAWN_T3	1	8	7	0.1	0.15	0.05	0.49	0.49	0	0	0	0	0	0
5/11/2024 21:50	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
5/11/2024 21:50	27502	WEIS_T2	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
5/11/2024 21:51	45501	DERR_T2	0	0	0	0	0	0	-0.86	-0.85	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/11/2024 21:51	66001	RHEE_T2	0	0	0	0	0	0	0.12	0.19	0	0	0	0	0	0
5/11/2024 21:51	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
5/11/2024 21:51	65401	MARI_T1	0	1	1	0	0.1	0.1	0.21	0.18	0	0	0	0	0	0
5/11/2024 21:52	16902	MECK_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
5/11/2024 21:52	13303	OKVI_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
5/11/2024 21:52	65401	MARI_T1	0	1	1	0	0.1	0.1	0.21	0.18	0	0	0	0	0	0
5/11/2024 21:52	29402	BELT_T1	103	96	-7	0.96	0.62	-0.34	0	0	0	0	0	0	0	0
5/11/2024 21:52	45902	AUBU_T1	24	66	42	0.19	0.2	0.01	-0.73	-0.81	0	0	0	0	0	0
5/11/2024 21:53	67002	STHI_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
5/11/2024 21:54	29402	BELT_T1	103	96	-7	0.96	0.62	-0.34	0	0	0	0	0	0	0	0
5/11/2024 21:54	42903	MIDD_T2	2	2	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
5/11/2024 21:54	17002	RIRO_T2	0	0	0	0	0	0	0.31	0.26	0	0	0	0	0	0
5/11/2024 21:54	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/11/2024 21:54	66001	RHEE_T2	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
5/11/2024 21:54	42902	MIDD_T2	0	0	0	0	0	0	-0.77	-0.81	0	0	0	0	0	0
5/11/2024 21:54	59101	WALK_T2	0	0	0	0	0	0	1.17	1.13	0	0	0	0	0	0
5/11/2024 21:54	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
5/11/2024 21:54	14404	SSLA_T1	1	1	0	4.8	4.5	-0.3	-0.03	-0.05	0	0	0	0	0	0
5/11/2024 21:55	65401	MARI_T1	0	1	1	0	0.1	0.1	0.18	0.21	0	0	0	0	0	0
5/11/2024 21:55	65702	RVIL_T2	0	0	0	0	0	0	-1.11	-1.12	1	1	0	600	600	0
5/11/2024 21:55	47401	PENS_T1	0	2	2	0	0	0	1.82	1.68	0	0	0	0	0	0
5/11/2024 21:55	63602	LETO_T1	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
5/11/2024 21:55	29402	BELT_T1	103	96	-7	0.96	0.62	-0.34	0	0	0	0	0	0	0	0
5/11/2024 21:55	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
5/11/2024 21:55	65802	RTWN_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
5/11/2024 21:55	62605	ENGL_T1	0	0	0	0	0	0	-2.01	-2.01	0	0	0	0	0	0
5/11/2024 21:55	59101	WALK_T2	0	0	0	0	0	0	1.17	1.13	0	0	0	0	0	0
5/11/2024 21:55	67603	WARW_T1	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
5/11/2024 21:55	27502	WEIS_T2	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
5/11/2024 21:55	62607	ENGL_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/11/2024 21:55	40101	HUNT_T2	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
5/11/2024 21:55	44502	HAMI_T2	1	1	0	2.9	3.1	0.2	0	0	0	0	0	0	0	0
5/11/2024 21:55	23001	SAJO_T1	0	0	0	0	0	0	-0.92	-0.89	0	0	0	0	0	0
5/11/2024 21:55	44503	HAMI_T2	0	0	0	0	0	0	-1.77	-1.77	1	1	0	1200	1200	0
5/11/2024 21:55	66203	SISP_T2	0	0	0	0	0	0	-1.45	-1.51	1	1	0	1200	1200	0
5/11/2024 21:55	13704	SCHN_T2	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
5/11/2024 21:55	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 21:55	67605	WARW_T1	19	24	5	0.65	0.68	0.03	0	0	0	0	0	0	0	0
5/11/2024 21:56	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/11/2024 21:56	12006	HATF_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
5/11/2024 21:56	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 21:56	57505	LAWN_T3	1	8	7	0.1	0.15	0.05	0.49	0.49	0	0	0	0	0	0
5/11/2024 21:56	11405	FARM_T1	1	1	0	3.7	3.9	0.2	-1.15	-1.18	1	1	0	1200	1200	0
5/11/2024 21:56	20103	AVOC_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
5/11/2024 21:56	29402	BELT_T1	103	96	-7	0.96	0.62	-0.34	0	0	0	0	0	0	0	0
5/11/2024 21:56	12001	HATF_T1	0	0	0	0	0	0	0.91	0.83	1	1	0	600	600	0
5/11/2024 21:56	20105	AVOC_T1	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
5/11/2024 21:56	67502	WEWI_T2	0	0	0	0	0	0	-1.59	-1.63	1	1	0	900	900	0
5/11/2024 21:56	25402	LAHA_T2	0	0	0	0	0	0	-0.9	-0.94	0	0	0	0	0	0
5/11/2024 21:56	47401	PENS_T1	0	2	2	0	0	0	0.61	0.56	0	0	0	0	0	0
5/11/2024 21:56	40302	TAMA_T3	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
5/11/2024 21:56	40301	TAMA_T3	1	3	2	0	0.7	0.7	0	0	0	0	0	0	0	0
5/11/2024 21:56	57501	LAWN_T3	0	0	0	0	0	0	-0.87	-0.88	0	0	0	0	0	0
5/11/2024 21:57	67502	WEWI_T2	0	0	0	0	0	0	-1.59	-1.63	1	1	0	900	900	0
5/11/2024 21:57	65004	NEFF_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
5/11/2024 21:57	61101	BERK_T5	0	0	0	0	0	0	-0.91	-0.89	0	0	0	0	0	0
5/11/2024 21:57	65001	NEFF_T2	0	25	25	0	0.11	0.11	0	0	0	0	0	0	0	0
5/11/2024 21:57	59003	MIFF_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
5/11/2024 21:57	42802	SELI_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
5/11/2024 21:57	26401	INOR_T1	1	1	0	9.3	9.8	0.5	0.3	0.29	0	0	0	0	0	0
5/11/2024 21:57	59002	MIFF_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/11/2024 21:57	47401	PENS_T1	0	2	2	0	0	0	1.21	1.12	0	0	0	0	0	0
5/11/2024 21:58	46002	BERW_T2	0	0	0	0	0	0	-1.58	-1.58	1	1	0	900	900	0
5/11/2024 21:58	65402	MARI_T1	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
5/11/2024 21:58	57502	LAWN_T3	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
5/11/2024 21:58	43202	MVIL_T2	13	0	-13	0.16	0	-0.16	-0.75	-0.76	0	0	0	0	0	0
5/11/2024 21:58	62607	ENGL_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/11/2024 21:58	12001	HATF_T1	0	0	0	0	0	0	0.91	0.83	1	1	0	600	600	0
5/11/2024 21:58	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 21:58	65401	MARI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/11/2024 21:58	42802	SELI_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
5/11/2024 21:58	62605	ENGL_T1	0	0	0	0	0	0	-2.01	-2.01	0	0	0	0	0	0
5/11/2024 21:58	57505	LAWN_T3	1	8	7	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/11/2024 21:58	46203	DANV_T2	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
5/11/2024 21:58	27605	PIRI_T2	0	0	0	0	0	0	-0.78	-0.84	1	1	0	900	900	0
5/11/2024 21:59	63202	MGTN_T2	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
5/11/2024 21:59	47401	PENS_T1	0	2	2	0	0	0	0.61	0.56	0	0	0	0	0	0
5/11/2024 21:59	59101	WALK_T2	0	0	0	0	0	0	1.17	1.13	0	0	0	0	0	0
5/11/2024 21:59	45902	AUBU_T1	24	66	42	0.19	0.2	0.01	0	0	0	0	0	0	0	0
5/11/2024 21:59	45901	AUBU_T1	0	0	0	0	0	0	0.93	0.92	0	0	0	0	0	0
5/11/2024 21:59	44502	HAMI_T2	1	1	0	2.9	3.1	0.2	0	0	0	0	0	0	0	0
5/11/2024 21:59	44503	HAMI_T2	0	0	0	0	0	0	-1.77	-1.77	1	1	0	1200	1200	0
5/11/2024 22:00	26001	WDAM_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
5/11/2024 22:00	60902	DONG_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
5/11/2024 22:00	61506	EPET_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
5/11/2024 22:00	61101	BERK_T5	0	0	0	0	0	0	-0.91	-0.89	0	0	0	0	0	0
5/11/2024 22:00	26002	WDAM_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/11/2024 22:00	51102	CARL_T1	0	106	106	0	0.24	0.24	0	0	0	0	0	0	0	0
5/11/2024 22:00	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 22:00	63305	GREE_T1	0	0	0	0	0	0	-1.57	-1.55	0	0	0	0	0	0
5/11/2024 22:00	57501	LAWN_T3	0	0	0	0	0	0	-0.87	-0.88	0	0	0	0	0	0
5/11/2024 22:00	51108	CARL_T1	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
5/11/2024 22:00	67703	WERN_T2	0	0	0	0	0	0	-1.01	-1.03	1	1	0	900	900	0
5/11/2024 22:00	61303	EARL_T1	0	0	0	0	0	0	-0.27	-0.33	0	0	0	0	0	0
5/11/2024 22:00	61304	EARL_T1	0	0	0	0	0	0	-1.02	-1.09	1	1	0	600	600	0
5/11/2024 22:00	11904	ETEX_T2	0	0	0	0	0	0	0.2	0.14	0	0	0	0	0	0
5/11/2024 22:00	61501	EPET_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
5/11/2024 22:00	57505	LAWN_T3	0	9	9	0	0.19	0.19	0	0	0	0	0	0	0	0
5/11/2024 22:00	46004	BERW_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
5/11/2024 22:01	20403	ASHF_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
5/11/2024 22:01	51702	OBER_T1	2	2	0	2.35	2.65	0.3	-0.58	-0.57	0	0	0	0	0	0
5/11/2024 22:01	24204	PROV_T3	1	2	1	6.2	2.9	-3.3	0	0	0	0	0	0	0	0
5/11/2024 22:01	24201	PROV_T3	1	100	99	6.4	0.19	-6.21	-1.57	-1.62	1	1	0	1200	1200	0
5/11/2024 22:01	46302	ROHR_T1	4	4	0	1.7	1.73	0.03	0.09	0.07	0	0	0	0	0	0
5/11/2024 22:01	45902	AUBU_T1	7	69	62	0.13	0.2	0.07	-0.81	-0.79	0	0	0	0	0	0
5/11/2024 22:01	65503	MOJO_T2	0	0	0	0	0	0	-0.48	-1.47	0	1	1	0	900	900
5/11/2024 22:01	56801	BENV_T1	10	15	5	0.43	0.79	0.36	-1.74	-1.78	2	2	0	1200	1200	0
5/11/2024 22:01	67502	WEWI_T2	0	0	0	0	0	0	-1.59	-1.63	1	1	0	900	900	0
5/11/2024 22:01	64302	LINC_T2	0	0	0	0	0	0	0.72	0.69	0	0	0	0	0	0
5/11/2024 22:01	65801	RTWN_T1	0	0	0	0	0	0	-1.21	-1.24	2	2	0	1200	1200	0
5/11/2024 22:02	62601	ENGL_T1	0	0	0	0	0	0	-1.57	-1.61	0	0	0	0	0	0
5/11/2024 22:02	11805	FRAN_T1	0	0	0	0	0	0	-1.83	-1.8	1	1	0	1200	1200	0
5/11/2024 22:02	16401	MOPO_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
5/11/2024 22:02	24202	PROV_T4	0	0	0	0	0	0	-1.19	-1.19	1	1	0	1200	1200	0
5/11/2024 22:02	66202	SISP_T2	0	0	0	0	0	0	-1.78	-1.89	0	0	0	0	0	0
5/11/2024 22:02	67803	WLAN_T1	0	0	0	0	0	0	-1.58	-1.58	0	0	0	0	0	0
5/11/2024 22:02	62102	ELAN_T1	0	0	0	0	0	0	0.55	0.62	0	0	0	0	0	0
5/11/2024 22:02	61803	EELI_T2	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
5/11/2024 22:02	14204	EALL_T2	0	0	0	0	0	0	-0.82	-0.82	0	0	0	0	0	0
5/11/2024 22:02	13503	MCMI_T2	40	103	63	0.21	0.22	0.01	-0.99	-1	0	0	0	0	0	0
5/11/2024 22:02	46203	DANV_T2	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
5/11/2024 22:02	16302	ALPA_T2	0	0	0	0	0	0	0.49	0.41	0	0	0	0	0	0
5/11/2024 22:02	45902	AUBU_T1	7	69	62	0.13	0.2	0.07	-0.81	-0.79	0	0	0	0	0	0
5/11/2024 22:02	67703	WERN_T2	0	0	0	0	0	0	-1.01	-1.03	1	1	0	900	900	0
5/11/2024 22:02	47401	PENS_T1	0	0	0	0	0	0	1.21	1.12	0	0	0	0	0	0
5/11/2024 22:02	10801	CHHI_T1	0	0	0	0	0	0	-1.01	-1.03	1	1	0	900	900	0
5/11/2024 22:02	62607	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/11/2024 22:03	43201	MVIL_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
5/11/2024 22:03	16301	ALPA_T1	1	1	0	0.1	0.2	0.1	-0.52	-0.51	0	0	0	0	0	0
5/11/2024 22:03	66505	SMAN_T2	3	1	-2	0.47	0.2	-0.27	0	0	0	0	0	0	0	0
5/11/2024 22:03	12701	MACU_T1	0	0	0	0	0	0	0.06	0	0	0	0	0	0	0
5/11/2024 22:03	66504	SMAN_T2	0	0	0	0	0	0	-1.27	-1.4	0	0	0	0	0	0
5/11/2024 22:03	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 22:03	57505	LAWN_T3	0	9	9	0	0.19	0.19	0	0	0	0	0	0	0	0
5/11/2024 22:03	66303	MCGO_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
5/11/2024 22:03	11901	ETEX_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
5/11/2024 22:03	56802	BENV_T2	1	1	0	0.4	0.5	0.1	-1.57	-1.52	0	0	0	0	0	0
5/11/2024 22:03	16302	ALPA_T2	0	0	0	0	0	0	0.49	0.41	0	0	0	0	0	0
5/11/2024 22:03	49804	UNIV_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
5/11/2024 22:03	66302	MCGO_T2	0	0	0	0	0	0	-0.81	-0.89	0	0	0	0	0	0
5/11/2024 22:03	45901	AUBU_T1	0	0	0	0	0	0	-0.93	0.92	0	0	0	0	0	0
5/11/2024 22:03	62102	ELAN_T1	0	0	0	0	0	0	0.55	0.62	0	0	0	0	0	0
5/11/2024 22:03	45902	AUBU_T1	7	69	62	0.13	0.2	0.07	0	0	0	0	0	0	0	0
5/11/2024 22:03	57501	LAWN_T3	0	0	0	0	0	0	-0.87	-0.88	0	0	0	0	0	0
5/11/2024 22:04	42601	TUSC_T1	0	1	1	0	0	0	-0.79	-0.84	2	2	0	1800	1800	0
5/11/2024 22:04	51107	CARL_T1	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
5/11/2024 22:04	67002	STHI_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
5/11/2024 22:04	56802	BENV_T2	1	1	0	0.4	0.5	0.1	-1.57	-1.52	0	0	0	0	0	0
5/11/2024 22:04	51102	CARL_T1	0	106	106	0	0.24	0.24	0	0	0	0	0	0	0	0
5/11/2024 22:04	59002	MIFF_T1	0	6	6	0	0.23	0.23	0	0	0	0	0	0	0	0
5/11/2024 22:04	59201	THOM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/11/2024 22:04	51002	NHAR_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
5/11/2024 22:04	51004	NHAR_T1	11	13	2	0.98	1.32	0.34	-0.46	-0.47	0	0	0	0	0	0
5/11/2024 22:04	45402	WBLO_T2	1	1	0	0.6	0.9	0.3	-1.89	-1.87	1	1	0	900	900	0
5/11/2024 22:04	16302	ALPA_T2	0	0	0	0	0	0	0.49	0.41	0	0	0	0	0	0
5/11/2024 22:04	45902	AUBU_T1	7	69	62	0.13	0.2	0.07	-0.81	-0.79	0	0	0	0	0	0
5/11/2024 22:04	51109	CARL_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
5/11/2024 22:04	59003	MIFF_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
5/11/2024 22:04	43202	MVIL_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
5/11/2024 22:04	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 22:04	59202	THOM_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/11/2024 22:04	67703	WERN_T2	0	0	0	0	0	0	-1.01	-1.03	1	1	0	900	900	0
5/11/2024 22:04	56801	BENV_T1	10	15	5	0.43	0.79	0.36	-0.87	-0.89	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/11/2024 22:05	55002	NEWP_T1	1	2	1	0.2	0.2	0	-0.29	-0.29	0	0	0	0	0	0
5/11/2024 22:05	65804	RTWN_T1	0	0	0	0	0	0	-0.36	-0.35	1	1	0	600	600	0
5/11/2024 22:05	26002	WDAM_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/11/2024 22:05	67203	TEHI_T1	0	0	0	0	0	0	0.87	0.82	0	0	0	0	0	0
5/11/2024 22:05	59202	THOM_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/11/2024 22:05	57505	LAWN_T3	0	9	9	0	0.19	0.19	0	0	0	0	0	0	0	0
5/11/2024 22:05	45902	AUBU_T1	7	69	62	0.13	0.2	0.07	-3.23	-3.17	0	0	0	0	0	0
5/11/2024 22:05	13601	RICH_T2	0	0	0	0	0	0	-0.07	-0.11	1	1	0	600	600	0
5/11/2024 22:05	43801	SWIL_T1	2	2	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
5/11/2024 22:05	48302	ORWI_T2	2	2	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
5/11/2024 22:05	57502	LAWN_T3	0	0	0	0	0	0	-1.38	-1.4	0	0	0	0	0	0
5/11/2024 22:05	13606	RICH_T2	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
5/11/2024 22:05	56802	BENV_T2	1	1	0	0.4	0.5	0.1	-4.7	-4.56	0	0	0	0	0	0
5/11/2024 22:05	65503	MOJO_T2	0	0	0	0	0	0	-0.48	-1.47	0	1	1	0	900	900
5/11/2024 22:05	59201	THOM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/11/2024 22:05	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 22:05	47103	MARI_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
5/11/2024 22:05	43802	SWIL_T1	0	0	0	0	0	0	-0.21	-0.22	1	1	0	600	600	0
5/11/2024 22:05	26001	WDAM_T1	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
5/11/2024 22:05	65702	RVIL_T2	0	0	0	0	0	0	-2.22	-2.25	2	2	0	1200	1200	0
5/11/2024 22:06	67002	STHI_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
5/11/2024 22:06	14603	SWHI_T1	0	0	0	0	0	0	-1.74	-1.76	2	2	0	1200	1200	0
5/11/2024 22:06	65702	RVIL_T2	0	0	0	0	0	0	-1.11	-1.12	1	1	0	600	600	0
5/11/2024 22:06	64301	LINC_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
5/11/2024 22:06	47203	FAXO_T2	1	1	0	0.4	0.6	0.2	-1.72	-1.7	1	1	0	1200	1200	0
5/11/2024 22:06	57502	LAWN_T3	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
5/11/2024 22:06	10903	COOP_T2	17	49	32	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
5/11/2024 22:06	65203	PRIN_T1	0	71	71	0	0.11	0.11	0	0	0	0	0	0	0	0
5/11/2024 22:06	65205	PRIN_T1	1	46	45	1.9	0.18	-1.72	0	0	0	0	0	0	0	0
5/11/2024 22:06	57505	LAWN_T3	0	9	9	0	0.19	0.19	0	0	0	0	0	0	0	0
5/11/2024 22:06	10901	COOP_T2	0	0	0	0	0	0	0.63	0.58	0	0	0	0	0	0
5/11/2024 22:06	67703	WERN_T2	0	0	0	0	0	0	-2.02	-2.06	2	2	0	1800	1800	0
5/11/2024 22:06	14203	EALL_T1	0	0	0	0	0	0	-0.49	-0.49	1	1	0	1200	1200	0
5/11/2024 22:06	67204	TEHI_T2	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
5/11/2024 22:06	56801	BENV_T1	10	15	5	0.43	0.79	0.36	-0.87	-0.89	1	1	0	600	600	0
5/11/2024 22:06	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/11/2024 22:06	65401	MARI_T1	0	1	1	0	0.1	0.1	0.18	0.21	0	0	0	0	0	0
5/11/2024 22:06	56802	BENV_T2	1	1	0	0.4	0.5	0.1	-4.7	-4.56	0	0	0	0	0	0
5/11/2024 22:06	59202	THOM_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/11/2024 22:06	15104	UPHA_T2	0	0	0	0	0	0	0.34	0.29	0	0	0	0	0	0
5/11/2024 22:06	46001	BERW_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
5/11/2024 22:06	65202	PRIN_T1	0	40	40	0	0.16	0.16	0	0	0	0	0	0	0	0
5/11/2024 22:06	17401	FOHI_T1	0	0	0	0	0	0	-2.12	-2.08	0	0	0	0	0	0
5/11/2024 22:06	46801	HEPB_T2	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
5/11/2024 22:06	59201	THOM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/11/2024 22:07	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 22:07	57502	LAWN_T3	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
5/11/2024 22:07	65401	MARI_T1	0	1	1	0	0.1	0.1	0.18	0.21	0	0	0	0	0	0
5/11/2024 22:07	51102	CARL_T1	0	106	106	0	0.24	0.24	0	0	0	0	0	0	0	0
5/11/2024 22:07	57505	LAWN_T3	0	9	9	0	0.19	0.19	0	0	0	0	0	0	0	0
5/11/2024 22:07	60501	NMAN_T2	8	3	-5	2.1	4.97	2.87	0	0	0	0	0	0	0	0
5/11/2024 22:07	66302	MCGO_T2	0	0	0	0	0	0	-0.81	-0.89	0	0	0	0	0	0
5/11/2024 22:07	53901	HALI_T2	1	1	0	0.3	0.6	0.3	-1.08	-1.08	0	0	0	0	0	0
5/11/2024 22:07	42903	MIDD_T2	0	2	2	0	0.9	0.9	-0.41	-0.57	0	0	0	0	0	0
5/11/2024 22:07	60502	NMAN_T2	0	0	0	0	0	0	-1.3	-1.4	0	0	0	0	0	0
5/11/2024 22:07	51107	CARL_T1	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
5/11/2024 22:07	66303	MCGO_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
5/11/2024 22:07	56801	BENV_T1	10	15	5	0.43	0.79	0.36	-0.87	-0.89	1	1	0	600	600	0
5/11/2024 22:07	57006	WHHI_T2	0	0	0	0	0	0	-0.08	-0.08	1	1	0	600	600	0
5/11/2024 22:07	67605	WARW_T1	18	31	13	0.58	0.66	0.08	-1.27	-1.31	0	0	0	0	0	0
5/11/2024 22:07	53902	HALI_T2	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
5/11/2024 22:07	53903	HALI_T2	2	2	0	1.45	1.7	0.25	0	0	0	0	0	0	0	0
5/11/2024 22:07	44301	BEAV_T2	0	0	0	0	0	0	-0.6	-0.63	1	1	0	600	600	0
5/11/2024 22:08	57506	LAWN_T3	0	0	0	0	0	0	0.3	0.32	1	1	0	600	600	0
5/11/2024 22:08	55002	NEWP_T1	1	2	1	0.2	0.2	0	-0.29	-0.29	0	0	0	0	0	0
5/11/2024 22:08	67605	WARW_T1	18	31	13	0.58	0.66	0.08	0	0	0	0	0	0	0	0
5/11/2024 22:08	12701	MACU_T1	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
5/11/2024 22:08	65205	PRIN_T1	1	46	45	1.9	0.18	-1.72	0	0	0	0	0	0	0	0
5/11/2024 22:08	57505	LAWN_T3	0	9	9	0	0.19	0.19	0	0	0	0	0	0	0	0
5/11/2024 22:08	51702	OBER_T1	2	2	0	2.35	2.65	0.3	-0.57	-0.59	0	0	0	0	0	0
5/11/2024 22:08	14601	SWHI_T1	0	0	0	0	0	0	-1.03	-1.03	0	0	0	0	0	0
5/11/2024 22:08	55003	NEWP_T2	0	4	4	0	0.13	0.13	-0.97	-0.97	1	1	0	600	600	0
5/11/2024 22:08	65203	PRIN_T1	0	71	71	0	0.11	0.11	0	0	0	0	0	0	0	0
5/11/2024 22:08	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
5/11/2024 22:08	28805	LAKE_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
5/11/2024 22:08	67603	WARW_T1	0	0	0	0	0	0	-0.12	-0.16	0	0	0	0	0	0
5/11/2024 22:08	65202	PRIN_T1	0	40	40	0	0.16	0.16	0	0	0	0	0	0	0	0
5/11/2024 22:09	56802	BENV_T2	1	1	0	0.4	0.5	0.1	-3.04	-3.1	0	0	0	0	0	0
5/11/2024 22:09	44502	HAMI_T2	1	1	0	2.6	3.3	0.7	-1.01	-0.97	0	0	0	0	0	0
5/11/2024 22:09	56801	BENV_T1	10	15	5	0.43	0.79	0.36	-0.89	-0.89	1	1	0	600	600	0
5/11/2024 22:09	55002	NEWP_T1	1	2	1	0.2	0.2	0	-0.29	-0.29	0	0	0	0	0	0
5/11/2024 22:09	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/11/2024 22:09	12701	MACU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 22:09	57006	WHHI_T2	0	0	0	0	0	0	-0.08	0.47	1	1	0	600	600	0
5/11/2024 22:09	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 22:09	23001	SAJO_T1	0	0	0	0	0	0	-0.89	-0.87	0	0	0	0	0	0
5/11/2024 22:09	65401	MARI_T1	0	1	1	0	0.1	0.1	0.21	0.18	0	0	0	0	0	0
5/11/2024 22:10	67605	WARW_T1	18	31	13	0.58	0.66	0.08	-1.31	-1.33	0	0	0	0	0	0
5/11/2024 22:10	60101	COCA_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
5/11/2024 22:10	67604	WARW_T1	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
5/11/2024 22:10	42902	MIDD_T2	0	0	0	0	0	0	-0.81	-0.78	0	0	0	0	0	0
5/11/2024 22:10	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 22:10	60502	NMAN_T2	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
5/11/2024 22:10	42903	MIDD_T2	0	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0
5/11/2024 22:10	10801	CHHI_T1	0	0	0	0	0	0	-1.03	-1.03	1	1	0	900	900	0
5/11/2024 22:10	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
5/11/2024 22:10	60501	NMAN_T2	8	3	-5	2.1	4.97	2.87	0	0	0	0	0	0	0	0
5/11/2024 22:10	46302	ROHR_T1	4	4	0	1.7	1.73	0.03	0.07	0.1	0	0	0	0	0	0
5/11/2024 22:10	67603	WARW_T1	0	0	0	0	0	0	-0.12	-0.16	0	0	0	0	0	0
5/11/2024 22:10	56802	BENV_T2	1	1	0	0.4	0.5	0.1	-4.56	-4.65	0	0	0	0	0	0
5/11/2024 22:10	56801	BENV_T1	10	15	5	0.43	0.79	0.36	-1.78	-1.78	2	2	0	1200	1200	0
5/11/2024 22:10	14601	SWHI_T1	0	0	0	0	0	0	-1.03	-1.03	0	0	0	0	0	0
5/11/2024 22:10	40101	HUNT_T2	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
5/11/2024 22:11	47401	PENS_T1	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
5/11/2024 22:11	57505	LAWN_T3	0	9	9	0	0.19	0.19	0.98	0.93	0	0	0	0	0	0
5/11/2024 22:11	55002	NEWP_T1	1	2	1	0.2	0.2	0	-0.29	-0.29	0	0	0	0	0	0
5/11/2024 22:11	67703	WERN_T2	0	0	0	0	0	0	-1.03	-1.04	1	1	0	900	900	0
5/11/2024 22:11	61303	EARL_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
5/11/2024 22:11	56501	ROCK_T2	8	11	3	0.45	0.7	0.25	-0.01	-0.01	0	0	0	0	0	0
5/11/2024 22:11	15103	UPHA_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
5/11/2024 22:12	51102	CARL_T1	0	106	106	0	0.24	0.24	0	0	0	0	0	0	0	0
5/11/2024 22:12	46001	BERW_T1	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
5/11/2024 22:12	56801	BENV_T1	10	15	5	0.43	0.79	0.36	-1.78	-1.78	2	2	0	1200	1200	0
5/11/2024 22:12	56501	ROCK_T2	8	11	3	0.45	0.7	0.25	-0.01	-0.01	0	0	0	0	0	0
5/11/2024 22:12	42903	MIDD_T2	0	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0
5/11/2024 22:12	57501	LAWN_T3	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
5/11/2024 22:12	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/11/2024 22:12	10801	CHHI_T1	0	0	0	0	0	0	-1.03	-1.03	1	1	0	900	900	0
5/11/2024 22:12	25501	MADI_T1	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/11/2024 22:12	61102	BERK_T5	0	0	0	0	0	0	0.34	0.21	1	1	0	300	300	0
5/11/2024 22:12	42902	MIDD_T2	0	0	0	0	0	0	-0.81	-0.78	0	0	0	0	0	0
5/11/2024 22:12	57505	LAWN_T3	0	9	9	0	0.19	0.19	0	0	0	0	0	0	0	0
5/11/2024 22:12	25503	MADI_T1	134	131	-3	0.42	0.37	-0.05	-1.04	-1.07	0	0	0	0	0	0
5/11/2024 22:12	51107	CARL_T1	0	0	0	0	0	0	-0.43	-0.37	0	0	0	0	0	0
5/11/2024 22:13	57401	SPAN_T1	0	0	0	0	0	0	-1.21	-1.23	1	1	0	600	600	0
5/11/2024 22:13	66505	SMAN_T2	3	1	-2	0.47	0.2	-0.27	-0.43	-0.23	2	1	-1	1100	900	-200
5/11/2024 22:13	28805	LAKE_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
5/11/2024 22:13	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
5/11/2024 22:13	56802	BENV_T2	1	1	0	0.4	0.5	0.1	-3.04	-3.1	0	0	0	0	0	0
5/11/2024 22:13	44302	BEAV_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
5/11/2024 22:13	44502	HAMI_T2	1	1	0	2.6	3.3	0.7	-1.01	-0.97	0	0	0	0	0	0
5/11/2024 22:13	57403	SPAN_T1	4	11	7	0.1	0.25	0.15	0	0	0	0	0	0	0	0
5/11/2024 22:14	56802	BENV_T2	1	1	0	0.4	0.5	0.1	-3.04	-3.1	0	0	0	0	0	0
5/11/2024 22:14	46506	LOHA_T1	0	0	0	0	0	0	-0.51	-0.56	0	0	0	0	0	0
5/11/2024 22:14	40702	FFLD_T1	4	0	-4	0.1	0	-0.1	-1.37	-1.38	1	1	0	1200	1200	0
5/11/2024 22:14	46504	LOHA_T1	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
5/11/2024 22:15	57502	LAWN_T3	0	0	0	0	0	0	-0.7	-0.66	0	0	0	0	0	0
5/11/2024 22:15	56802	BENV_T2	1	2	1	0.5	0.35	-0.15	-1.52	-1.55	0	0	0	0	0	0
5/11/2024 22:15	58402	MORO_T1	0	0	0	0	0	0	-0.6	-0.61	2	2	0	1500	1500	0
5/11/2024 22:15	57505	LAWN_T3	8	9	1	0.15	0.22	0.07	0	0	0	0	0	0	0	0
5/11/2024 22:16	67703	WERN_T2	0	0	0	0	0	0	-1.03	-1.04	1	1	0	900	900	0
5/11/2024 22:16	60104	COCA_T2	3	3	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/11/2024 22:16	45501	DERR_T2	0	0	0	0	0	0	-0.9	-0.8	2	2	0	1800	1800	0
5/11/2024 22:16	58401	MORO_T1	0	0	0	0	0	0	-1.25	-1.27	1	1	0	600	600	0
5/11/2024 22:16	65901	SAKR_T2	1	1	0	9.6	9.6	0	0	0	0	0	0	0	0	0
5/11/2024 22:16	65902	SAKR_T2	0	0	0	0	0	0	-0.73	-0.43	1	0	-1	300	0	-300
5/11/2024 22:16	67201	TEHI_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
5/11/2024 22:16	60103	COCA_T2	0	0	0	0	0	0	0	-0.08	1	1	0	900	900	0
5/11/2024 22:16	57501	LAWN_T3	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
5/11/2024 22:16	57505	LAWN_T3	8	9	1	0.15	0.22	0.07	0	0	0	0	0	0	0	0
5/11/2024 22:17	45602	WOOL_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
5/11/2024 22:17	46506	LOHA_T1	0	0	0	0	0	0	-1.02	-1.12	0	0	0	0	0	0
5/11/2024 22:17	44301	BEAV_T2	0	0	0	0	0	0	-0.63	-0.62	1	1	0	600	600	0
5/11/2024 22:17	46203	DANV_T2	0	0	0	0	0	0	-0.91	-2.16	0	0	0	0	0	0
5/11/2024 22:17	58402	MORO_T1	0	0	0	0	0	0	-0.6	-0.61	2	2	0	1500	1500	0
5/11/2024 22:17	46504	LOHA_T1	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
5/11/2024 22:18	46504	LOHA_T1	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
5/11/2024 22:18	67603	WARW_T1	0	0	0	0	0	0	-0.12	-0.16	0	0	0	0	0	0
5/11/2024 22:18	67605	WARW_T1	24	34	10	0.68	0.76	0.08	0	0	0	0	0	0	0	0
5/11/2024 22:18	46506	LOHA_T1	0	0	0	0	0	0	-0.51	-0.56	0	0	0	0	0	0
5/11/2024 22:18	51702	OBER_T1	2	2	0	2.45	2.8	0.35	-0.57	-0.59	0	0	0	0	0	0
5/11/2024 22:19	58401	MORO_T1	0	0	0	0	0	0	-1.25	-1.27	1	1	0	600	600	0
5/11/2024 22:20	46203	DANV_T2	0	0	0	0	0	0	-0.91	-2.16	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/11/2024 22:20	45602	WOOL_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
5/11/2024 22:20	58402	MORO_T1	0	0	0	0	0	0	-0.6	-0.61	2	2	0	1500	1500	0
5/11/2024 22:22	46203	DANV_T2	0	0	0	0	0	0	-0.91	-2.16	0	0	0	0	0	0
5/11/2024 22:22	51702	OBER_T1	2	2	0	2.45	2.8	0.35	-0.57	-0.59	0	0	0	0	0	0
5/11/2024 22:22	45602	WOOL_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
5/11/2024 22:24	58401	MORO_T1	0	0	0	0	0	0	-1.27	-1.29	1	1	0	600	600	0
5/11/2024 22:41	53903	HALI_T2	2	2	0	1.7	1.6	-0.1	-0.22	-0.22	0	0	0	0	0	0
5/11/2024 22:41	53902	HALI_T2	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
5/11/2024 22:41	53901	HALI_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/11/2024 23:12	65401	MARI_T1	80	218	138	0.13	0.23	0.1	0	0	0	0	0	0	0	0
5/11/2024 23:12	65402	MARI_T1	3	186	183	0.1	0.14	0.04	-0.37	-0.39	0	0	0	0	0	0
5/11/2024 23:19	65702	RVIL_T2	0	0	0	0	0	0	-1.12	-1.13	1	1	0	600	600	0
5/11/2024 23:42	61502	EPET_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/11/2024 23:42	61503	EPET_T1	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
5/12/2024 0:05	67702	WERN_T2	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
5/12/2024 3:49	24802	VALM_T1	0	0	0	0	0	0	1.96	2.1	0	0	0	0	0	0
5/12/2024 7:25	22003	BOHE_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/12/2024 7:25	22001	BOHE_T1	0	0	0	0	0	0	-0.29	-0.3	1	1	0	600	600	0
5/12/2024 7:46	60605	NCOL_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
5/12/2024 7:47	60605	NCOL_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
5/12/2024 7:53	67805	WLAN_T1	0	0	0	0	0	0	-1.66	-1.69	0	0	0	0	0	0
5/12/2024 7:55	61502	EPET_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/12/2024 7:55	61503	EPET_T1	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
5/12/2024 8:02	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/12/2024 8:07	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/12/2024 8:10	62104	ELAN_T1	0	0	0	0	0	0	1.11	1.12	0	0	0	0	0	0
5/12/2024 8:11	62104	ELAN_T1	0	0	0	0	0	0	1.11	1.12	0	0	0	0	0	0
5/12/2024 8:12	62104	ELAN_T1	0	0	0	0	0	0	1.11	1.12	0	0	0	0	0	0
5/12/2024 8:15	62106	ELAN_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
5/12/2024 8:23	67804	WLAN_T1	0	0	0	0	0	0	-1.13	-1.12	0	0	0	0	0	0
5/12/2024 8:26	53501	EVIL_T2	3	4	1	0.5	0.65	0.15	0	0	0	0	0	0	0	0
5/12/2024 8:26	53502	EVIL_T2	0	0	0	0	0	0	0.51	0.57	0	0	0	0	0	0
5/12/2024 8:29	63801	HEMP_T1	0	0	0	0	0	0	-0.28	-0.37	0	0	0	0	0	0
5/12/2024 8:29	63804	HEMP_T1	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
5/12/2024 8:33	54203	PENN_T1	18	18	0	0.45	0.46	0.01	0	0	0	0	0	0	0	0
5/12/2024 8:33	54201	PENN_T1	10	10	0	0.67	0.63	-0.04	-1.22	-1.21	0	0	0	0	0	0
5/12/2024 8:34	56501	ROCK_T2	1	0	-1	1	0	-1	-0.01	-0.01	0	0	0	0	0	0
5/12/2024 8:36	54203	PENN_T1	18	18	0	0.45	0.46	0.01	0.55	0.57	0	0	0	0	0	0
5/12/2024 8:36	56501	ROCK_T2	1	0	-1	1	0	-1	-0.01	-0.01	0	0	0	0	0	0
5/12/2024 8:36	54201	PENN_T1	10	10	0	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
5/12/2024 8:37	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/12/2024 8:37	29402	BELT_T1	90	56	-34	0.68	0.68	0	0	0	0	0	0	0	0	0
5/12/2024 8:38	56501	ROCK_T2	1	0	-1	1	0	-1	-0.01	-0.01	0	0	0	0	0	0
5/12/2024 8:40	29402	BELT_T1	90	56	-34	0.68	0.68	0	0	0	0	0	0	0	0	0
5/12/2024 8:40	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/12/2024 8:55	29402	BELT_T1	54	88	34	0.65	0.79	0.14	0	0	0	0	0	0	0	0
5/12/2024 8:55	29401	BELT_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
5/12/2024 9:00	46801	HEPB_T2	0	0	0	0	0	0	0.47	0.52	0	0	0	0	0	0
5/12/2024 9:12	40101	HUNT_T2	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
5/12/2024 9:13	12006	HATF_T1	0	0	0	0	0	0	0.34	0.43	0	0	0	0	0	0
5/12/2024 9:29	53501	EVIL_T2	3	1	-2	0.57	0.6	0.03	0	0	0	0	0	0	0	0
5/12/2024 9:29	53502	EVIL_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
5/12/2024 9:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 9:33	41902	REED_T1	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
5/12/2024 9:37	41902	REED_T1	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
5/12/2024 9:39	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 9:42	62105	ELAN_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
5/12/2024 10:00	63306	GREE_T1	0	0	0	0	0	0	-2.17	-2.15	1	1	0	900	900	0
5/12/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
5/12/2024 10:00	56803	BENV_T1	3	0	-3	0.13	0	-0.13	-0.09	-0.09	1	1	0	600	600	0
5/12/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	-0.95	-0.94	2	2	0	1800	1800	0
5/12/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
5/12/2024 10:00	60103	COCA_T2	0	0	0	0	0	0	0.08	0.03	1	1	0	900	900	0
5/12/2024 10:00	57106	SPHI_T2	3	3	0	0.57	0.7	0.13	0	0	0	0	0	0	0	0
5/12/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.54	-0.57	1	1	0	600	600	0
5/12/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	0.7	0.8	0	0	0	0	0	0
5/12/2024 10:00	47002	HUGH_T2	0	0	0	0	0	0	-0.71	-0.74	0	0	0	0	0	0
5/12/2024 10:00	63404	HONY_T1	48	62	14	0.2	0.22	0.02	0	0	0	0	0	0	0	0
5/12/2024 10:00	24204	PROV_T3	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
5/12/2024 10:00	10801	CHHI_T1	0	0	0	0	0	0	-1.5	-1.52	2	2	0	1500	1500	0
5/12/2024 10:00	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/12/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
5/12/2024 10:00	15103	UPHA_T2	0	0	0	0	0	0	0.38	0.31	0	0	0	0	0	0
5/12/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
5/12/2024 10:00	67703	WERN_T2	0	0	0	0	0	0	-1.01	-1	1	1	0	900	900	0
5/12/2024 10:00	16605	PONO_T1	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
5/12/2024 10:00	45602	WOOL_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
5/12/2024 10:00	43104	SMIL_T2	0	0	0	0	0	0	-0.84	-0.84	1	1	0	300	300	0
5/12/2024 10:00	57104	SPHI_T2	0	2	2	0	8.2	8.2	-2.18	-2.18	1	1	0	900	900	0
5/12/2024 10:00	24201	PROV_T3	1	1	0	7.5	7.4	-0.1	-0.26	-0.23	0	0	0	0	0	0
5/12/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
5/12/2024 10:00	50505	MECH_T1	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
5/12/2024 10:00	12505	MITR_T2	0	0	0	0	0	0	0.12	0.19	0	0	0	0	0	0
5/12/2024 10:00	65001	NEFF_T2	68	76	8	0.13	0.14	0.01	-1.37	-1.36	1	1	0	1200	1200	0
5/12/2024 10:00	40702	FELD_T1	5	6	1	0.11	0.18	0.08	0	0	0	0	0	0	0	0
5/12/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	0.44	0.38	0	0	0	0	0	0
5/12/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	-0.38	-0.34	0	0	0	0	0	0
5/12/2024 10:00	62607	ENGL_T1	1	1	0	0.4	0.4	0	-1.16	-1.16	1	1	0	300	300	0
5/12/2024 10:00	24701	FLND_T2	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
5/12/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
5/12/2024 10:00	58001	WCAR_T1	4	4	0	0.33	0.35	0.02	0.58	0.53	0	0	0	0	0	0
5/12/2024 10:00	63401	HONY_T1	0	0	0	0	0	0	-0.02	-0.07	0	0	0	0	0	0
5/12/2024 10:00	63302	GREE_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
5/12/2024 10:00	40603	PIGR_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
5/12/2024 10:00	54601	SUMM_T2	0	0	0	0	0	0	-1.95	-1.94	2	2	0	2100	2100	0
5/12/2024 10:00	16103	BING_T2	1	1	0	1.5	1.9	0.4	0	0	0	0	0	0	0	0
5/12/2024 10:00	53901	HALI_T2	0	2	2	0	0.2	0.2	-1.52	-1.5	0	0	0	0	0	0
5/12/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	-0.41	-0.41	1	1	0	600	600	0
5/12/2024 10:00	40602	PIGR_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/12/2024 10:00	66303	MCGG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/12/2024 10:00	54001	SDLE_T1	1	3	2	0.3	0.3	0	0	0	1	1	0	600	600	0
5/12/2024 10:00	67002	STHI_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
5/12/2024 10:00	57506	LAWN_T3	0	0	0	0	0	0	0.27	0.29	1	1	0	600	600	0
5/12/2024 10:00	12701	MACU_T1	0	0	0	0	0	0	0.07	0.1	0	0	0	0	0	0
5/12/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-1.52	-1.47	1	1	0	900	900	0
5/12/2024 10:00	64701	LITI_T1	0	0	0	0	0	0	-0.04	0	0	0	0	0	0	0
5/12/2024 10:00	64801	MONE_T2	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
5/12/2024 10:00	11104	EGYP_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
5/12/2024 10:00	48302	ORWI_T2	3	2	-1	0.43	0.3	-0.13	-0.07	-0.07	0	0	0	0	0	0
5/12/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.82	-0.86	1	1	0	1200	1200	0
5/12/2024 10:00	61302	EARL_T1	0	0	0	0	0	0	0.7	0.68	1	1	0	600	600	0
5/12/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
5/12/2024 10:00	12802	MICK_T1	0	0	0	0	0	0	-1.33	-1.29	0	0	0	0	0	0
5/12/2024 10:00	27502	WEIS_T2	0	0	0	0	0	0	-1.45	-1.48	0	0	0	0	0	0
5/12/2024 10:00	10805	CHHI_T2	1	1	0	8	8.1	0.1	-1.19	-1.17	0	0	0	0	0	0
5/12/2024 10:00	56501	ROCK_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
5/12/2024 10:00	12604	MACA_T1	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
5/12/2024 10:00	46203	DANV_T2	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
5/12/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.59	-0.51	2	2	0	1500	1500	0
5/12/2024 10:00	53502	EVIL_T2	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
5/12/2024 10:00	42903	MIDD_T2	2	2	0	0.4	0.6	0.2	-0.32	-0.28	0	0	0	0	0	0
5/12/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	-1.06	-1.08	1	1	0	600	600	0
5/12/2024 10:00	17101	WTRE_T2	318	335	17	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
5/12/2024 10:00	60501	NMAN_T2	3	3	0	4.57	4.43	-0.14	0	0	0	0	0	0	0	0
5/12/2024 10:00	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
5/12/2024 10:00	51702	OBER_T1	2	2	0	2.5	2.5	0	-0.58	-0.53	0	0	0	0	0	0
5/12/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-2.1	-2.07	0	0	0	0	0	0
5/12/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
5/12/2024 10:00	40901	JESH_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
5/12/2024 10:00	50502	MECH_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
5/12/2024 10:00	46501	LOHA_T1	0	0	0	0	0	0	-0.17	-0.22	1	1	0	1200	1200	0
5/12/2024 10:00	11101	EGYP_T1	0	0	0	0	0	0	0.9	0.94	0	0	0	0	0	0
5/12/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
5/12/2024 10:00	44505	HAMI_T2	0	0	0	0	0	0	0.26	0.31	0	0	0	0	0	0
5/12/2024 10:00	12502	MITR_T2	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
5/12/2024 10:00	43103	SMIL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/12/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
5/12/2024 10:00	44502	HAMI_T2	1	1	0	2.8	2.9	0.1	-0.98	-0.92	0	0	0	0	0	0
5/12/2024 10:00	16102	BING_T2	0	0	0	0	0	0	-0.2	-0.16	0	0	0	0	0	0
5/12/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/12/2024 10:00	40502	CRES_T2	2	0	-2	0.1	0	-0.1	-0.07	-0.06	0	0	0	0	0	0
5/12/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-0.72	-0.7	1	1	0	900	900	0
5/12/2024 10:00	63304	GREE_T1	0	0	0	0	0	0	-0.6	-0.52	0	0	0	0	0	0
5/12/2024 10:00	56601	HAMP_T1	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
5/12/2024 10:00	22102	EDEL_T1	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
5/12/2024 10:00	62605	ENGL_T1	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
5/12/2024 10:00	54602	SUMM_T2	0	0	0	0	0	0	-2.52	-2.51	1	1	0	600	600	0
5/12/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-0.82	-0.91	0	0	0	0	0	0
5/12/2024 10:00	56801	BENV_T1	6	7	1	0.58	0.6	0.02	0	0	0	0	0	0	0	0
5/12/2024 10:00	53903	HALI_T2	2	2	0	0.9	1	0.1	-0.18	-0.18	0	0	0	0	0	0
5/12/2024 10:00	11901	ETEK_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
5/12/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	0.64	0.66	0	0	0	0	0	0
5/12/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.81	0.81	0	0	0	0	0	0
5/12/2024 10:00	44201	POIN_T1	202	229	27	0.2	0.22	0.02	-2.15	-2.1	1	1	0	1200	1200	0
5/12/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-1.72	-1.74	0	0	0	0	0	0
5/12/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 10:00	43102	SMIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
5/12/2024 10:00	50701	SMEC_T1	0	0	0	0	0	0	-0.8	-0.86	1	1	0	900	900	0
5/12/2024 10:00	53501	EVIL_T2	3	2	-1	0.47	0.2	-0.27	-2.58	-2.49	0	0	0	0	0	0
5/12/2024 10:00	58003	WCAR_T1	1	1	0	0.9	0.9	0	0.5	0.51	0	0	0	0	0	0
5/12/2024 10:00	40505	CRES_T1	3	3	0	5	4.87	-0.13	0.23	0.22	0	0	0	0	0	0
5/12/2024 10:00	25603	ARRO_T1	0	0	0	0	0	0	-0.19	-0.13	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/12/2024 10:00	40703	FFLD_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
5/12/2024 10:00	53902	HALI_T2	1	2	1	4.8	4.8	0	0	0	0	0	0	0	0	0
5/12/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
5/12/2024 10:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 10:00	66202	SISP_T2	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
5/12/2024 10:00	57101	SPHI_T2	6	6	0	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
5/12/2024 10:06	67503	WEWI_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
5/12/2024 10:06	65604	QVIL_T2	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
5/12/2024 10:06	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
5/12/2024 10:07	52004	LING_T2	0	1	1	0	0	0	0.13	0.05	0	0	0	0	0	0
5/12/2024 10:07	45602	WOOL_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
5/12/2024 10:07	63801	HEMP_T1	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
5/12/2024 10:07	16402	MOPO_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
5/12/2024 10:07	40101	HUNT_T2	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
5/12/2024 10:07	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/12/2024 10:07	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/12/2024 10:07	64305	LINC_T1	0	0	0	0	0	0	-0.73	-0.77	0	0	0	0	0	0
5/12/2024 10:07	66504	SMAN_T2	0	0	0	0	0	0	-0.53	-0.64	0	0	0	0	0	0
5/12/2024 10:07	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 10:07	59003	MIFF_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
5/12/2024 10:08	46001	BERW_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
5/12/2024 10:08	67605	WARW_T1	12	14	2	0.33	0.48	0.15	0	0	0	0	0	0	0	0
5/12/2024 10:08	51004	NHAR_T1	13	12	-1	0.79	0.79	0	0	0	0	0	0	0	0	0
5/12/2024 10:08	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
5/12/2024 10:08	67603	WARW_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
5/12/2024 10:08	60801	BUCK_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
5/12/2024 10:08	45702	LIND_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
5/12/2024 10:08	29402	BELT_T1	100	67	-33	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
5/12/2024 10:08	13101	NHAM_T1	0	0	0	0	0	0	-2.07	-2.35	2	2	0	2100	2100	0
5/12/2024 10:08	22405	MORG_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
5/12/2024 10:08	58803	COCO_T1	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
5/12/2024 10:08	59102	WALK_T2	0	0	0	0	0	0	-0.41	-0.43	1	1	0	600	600	0
5/12/2024 10:08	45902	AUBU_T1	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
5/12/2024 10:08	42302	MOWR_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
5/12/2024 10:08	65702	RVIL_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
5/12/2024 10:08	17001	RIRO_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
5/12/2024 10:08	51401	LYKE_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
5/12/2024 10:08	15404	WALL_T1	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
5/12/2024 10:08	51002	NHAR_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/12/2024 10:08	58102	NEKI_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
5/12/2024 10:08	66203	SISP_T2	0	0	0	0	0	0	-1.39	-1.4	1	1	0	1200	1200	0
5/12/2024 10:09	58402	MORO_T1	0	0	0	0	0	0	-0.51	-0.5	2	2	0	1500	1500	0
5/12/2024 10:12	61503	EPET_T1	0	0	0	0	0	0	-0.59	-0.55	0	0	0	0	0	0
5/12/2024 10:14	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/12/2024 10:14	63801	HEMP_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
5/12/2024 10:17	12006	HATF_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
5/12/2024 10:18	43202	MVIL_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
5/12/2024 10:23	54601	SUMM_T2	0	0	0	0	0	0	-1.94	-1.93	2	2	0	2100	2100	0
5/12/2024 10:29	46801	HEPB_T2	0	0	0	0	0	0	0.5	0.53	0	0	0	0	0	0
5/12/2024 10:37	66202	SISP_T2	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
5/12/2024 10:37	66201	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 10:38	54601	SUMM_T2	0	0	0	0	0	0	-1.93	-1.91	2	2	0	2100	2100	0
5/12/2024 10:38	66201	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 10:38	29402	BELT_T1	28	32	4	0.59	0.63	0.04	0	0	0	0	0	0	0	0
5/12/2024 10:38	66202	SISP_T2	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
5/12/2024 10:40	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/12/2024 10:40	29402	BELT_T1	28	32	4	0.59	0.63	0.04	0	0	0	0	0	0	0	0
5/12/2024 10:41	29402	BELT_T1	28	32	4	0.59	0.63	0.04	0	0	0	0	0	0	0	0
5/12/2024 10:41	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/12/2024 10:44	62102	ELAN_T1	0	0	0	0	0	0	0.69	0.53	0	0	0	0	0	0
5/12/2024 10:55	45901	AUBU_T1	0	0	0	0	0	0	0.92	0.91	0	0	0	0	0	0
5/12/2024 11:03	65001	NEFF_T2	42	11	-31	0.14	0.12	-0.02	-1.21	-1.3	1	1	0	1200	1200	0
5/12/2024 11:05	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/12/2024 11:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 11:15	10801	CHHI_T1	0	1	1	0	0	0	-1.52	-1.53	2	2	0	1500	1500	0
5/12/2024 11:16	59302	MCAL_T1	2	1	-1	0.3	0.2	-0.1	-0.44	-0.44	1	1	0	600	600	0
5/12/2024 11:16	53501	EVIL_T2	0	5	5	0	0.16	0.16	-0.77	-0.79	0	0	0	0	0	0
5/12/2024 11:16	59301	MCAL_T1	3	3	0	0.53	0.67	0.14	0	0	0	0	0	0	0	0
5/12/2024 11:17	40702	FFLD_T1	4	9	5	0.1	0.16	0.06	-1.34	-1.35	1	1	0	1200	1200	0
5/12/2024 11:18	65503	MOJO_T2	0	0	0	0	0	0	-1.3	-1.32	1	1	0	900	900	0
5/12/2024 11:19	65503	MOJO_T2	0	0	0	0	0	0	-1.3	-1.32	1	1	0	900	900	0
5/12/2024 11:20	58402	MORO_T1	0	0	0	0	0	0	-0.57	-0.56	2	2	0	1500	1500	0
5/12/2024 11:22	58402	MORO_T1	0	0	0	0	0	0	-1.14	-1.12	4	4	0	3000	3000	0
5/12/2024 11:29	62106	ELAN_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
5/12/2024 11:33	65205	PRIN_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
5/12/2024 11:34	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/12/2024 11:35	16504	STRO_T1	0	0	0	0	0	0	0.17	0.17	1	1	0	1200	1200	0
5/12/2024 11:36	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/12/2024 11:42	16504	STRO_T1	0	0	0	0	0	0	0.17	0.18	1	1	0	1200	1200	0
5/12/2024 11:46	47103	MARL_T2	0	0	0	0	0	0	-0.65	-0.68	0	0	0	0	0	0
5/12/2024 11:47	55002	NEWP_T1	5	5	0	0.28	0.4	0.12	-0.26	-0.25	0	0	0	0	0	0
5/12/2024 11:49	55002	NEWP_T1	5	5	0	0.28	0.4	0.12	-0.78	-0.75	0	0	0	0	0	0
5/12/2024 11:49	47103	MARL_T2	0	0	0	0	0	0	-0.65	-0.68	0	0	0	0	0	0
5/12/2024 11:51	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 11:52	67803	WLAN_T1	0	0	0	0	0	0	-1.57	-1.55	0	0	0	0	0	0
5/12/2024 11:54	57403	SPAN_T1	0	1	1	0	0.1	0.1	0.03	0.01	0	0	0	0	0	0
5/12/2024 11:54	57401	SPAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/12/2024 11:56	29402	BELT_T1	18	5	-13	0.78	1.92	1.14	0	0	0	0	0	0	0	0
5/12/2024 11:56	56802	BENV_T2	0	0	0	0	0	0	-1.44	-1.46	0	0	0	0	0	0
5/12/2024 11:57	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/12/2024 11:57	56802	BENV_T2	0	0	0	0	0	0	-1.44	-1.46	0	0	0	0	0	0
5/12/2024 11:57	29402	BELT_T1	18	5	-13	0.78	1.92	1.14	0	0	0	0	0	0	0	0
5/12/2024 12:05	42802	SELI_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
5/12/2024 12:05	42201	SHEN_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
5/12/2024 12:06	47401	PENS_T1	3	5	2	0.3	0.96	0.66	0.88	0.86	0	0	0	0	0	0
5/12/2024 12:06	47402	PENS_T1	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/12/2024 12:06	47403	PENS_T1	5	1	-4	0.46	0.2	-0.26	0	0	0	0	0	0	0	0
5/12/2024 12:07	47401	PENS_T1	3	5	2	0.3	0.96	0.66	1.77	1.71	0	0	0	0	0	0
5/12/2024 12:07	47402	PENS_T1	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/12/2024 12:07	42201	SHEN_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
5/12/2024 12:07	47403	PENS_T1	5	1	-4	0.46	0.2	-0.26	0	0	0	0	0	0	0	0
5/12/2024 12:08	47401	PENS_T1	3	5	2	0.3	0.96	0.66	0.88	0.86	0	0	0	0	0	0
5/12/2024 12:08	47402	PENS_T1	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/12/2024 12:08	42802	SELI_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
5/12/2024 12:08	47403	PENS_T1	5	1	-4	0.46	0.2	-0.26	0	0	0	0	0	0	0	0
5/12/2024 12:11	51101	CARL_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
5/12/2024 12:11	51109	CARL_T1	1	3	2	0.1	0.53	0.43	-1.04	-1.04	1	1	0	1200	1200	0
5/12/2024 12:11	51108	CARL_T1	1	8	7	0.3	0.36	0.06	0	0	0	0	0	0	0	0
5/12/2024 12:11	51102	CARL_T1	96	135	39	0.28	0.36	0.08	0	0	0	0	0	0	0	0
5/12/2024 12:12	51101	CARL_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
5/12/2024 12:12	51108	CARL_T1	1	8	7	0.3	0.36	0.06	-0.97	-1.08	0	0	0	0	0	0
5/12/2024 12:12	51102	CARL_T1	96	135	39	0.28	0.36	0.08	0	0	0	0	0	0	0	0
5/12/2024 12:12	51109	CARL_T1	1	3	2	0.1	0.53	0.43	0	0	0	0	0	0	0	0
5/12/2024 12:13	51108	CARL_T1	1	8	7	0.3	0.36	0.06	0	0	0	0	0	0	0	0
5/12/2024 12:13	51101	CARL_T1	0	3	3	0	0.33	0.33	-1.27	-1.26	1	1	0	600	600	0
5/12/2024 12:13	51102	CARL_T1	96	135	39	0.28	0.36	0.08	0	0	0	0	0	0	0	0
5/12/2024 12:13	51109	CARL_T1	1	3	2	0.1	0.53	0.43	0	0	0	0	0	0	0	0
5/12/2024 12:20	64101	REFR_T1	0	1	1	0	1	1	0.02	0.11	0	0	0	0	0	0
5/12/2024 12:21	64101	REFR_T1	0	1	1	0	1	1	0.02	0.11	0	0	0	0	0	0
5/12/2024 12:22	47403	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/12/2024 12:22	47401	PENS_T1	5	3	-2	0.96	0.33	-0.63	1.71	1.39	0	0	0	0	0	0
5/12/2024 12:22	47402	PENS_T1	2	1	-1	0.5	0.5	0	0	0	0	0	0	0	0	0
5/12/2024 12:23	64101	REFR_T1	0	1	1	0	1	1	0.21	0.07	0	0	0	0	0	0
5/12/2024 12:23	47403	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/12/2024 12:23	47402	PENS_T1	2	1	-1	0.5	0.5	0	0	0	0	0	0	0	0	0
5/12/2024 12:23	47401	PENS_T1	5	3	-2	0.96	0.33	-0.63	0.86	0.69	0	0	0	0	0	0
5/12/2024 12:24	64101	REFR_T1	0	1	1	0	1	1	0.11	0.04	0	0	0	0	0	0
5/12/2024 12:25	44302	BEAV_T2	8	2	-6	0.54	0.4	-0.14	0	0	0	0	0	0	0	0
5/12/2024 12:25	59101	WALK_T2	0	0	0	0	0	0	1.3	1.35	0	0	0	0	0	0
5/12/2024 12:25	44301	BEAV_T2	2	0	-2	0.45	0	-0.45	-0.57	-0.56	1	1	0	600	600	0
5/12/2024 12:32	59002	MIFF_T1	6	6	0	0.48	0.37	-0.11	0	0	0	0	0	0	0	0
5/12/2024 12:32	46506	LOHA_T1	1	1	0	0.8	0.7	-0.1	-0.47	-0.49	0	0	0	0	0	0
5/12/2024 12:32	46504	LOHA_T1	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
5/12/2024 12:32	59003	MIFF_T1	1	1	0	0.2	0.3	0.1	0.32	0.34	0	0	0	0	0	0
5/12/2024 12:33	47103	MARL_T2	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
5/12/2024 12:35	41902	REED_T1	5	6	1	0.52	0	-0.52	0.79	0.79	0	0	0	0	0	0
5/12/2024 12:36	43301	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/12/2024 12:37	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.27	1	1	0	600	600	0
5/12/2024 12:37	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 12:37	41902	REED_T1	5	6	1	0.52	0	-0.52	0.79	0.79	0	0	0	0	0	0
5/12/2024 12:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
5/12/2024 12:41	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.75	-0.77	2	2	0	1800	1800	0
5/12/2024 12:42	64101	REFR_T1	0	1	1	0	1	1	0.04	0.05	0	0	0	0	0	0
5/12/2024 12:42	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.75	-0.77	2	2	0	1800	1800	0
5/12/2024 12:43	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.75	-0.77	2	2	0	1800	1800	0
5/12/2024 12:43	53501	EVIL_T2	4	3	-1	0.43	0.53	0.1	0	0	0	0	0	0	0	0
5/12/2024 12:43	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 12:43	53502	EVIL_T2	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
5/12/2024 12:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 12:44	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/12/2024 12:44	63803	HEMP_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
5/12/2024 12:44	63801	HEMP_T1	0	5	5	0	0.32	0.32	0	0	0	0	0	0	0	0
5/12/2024 12:44	63802	HEMP_T1	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
5/12/2024 12:45	45501	DERR_T2	0	2	2	0	0.25	0.25	-0.75	-0.77	2	2	0	1800	1800	0
5/12/2024 12:47	63804	HEMP_T1	1	1	0	5.5	5.5	0	0.78	0.79	0	0	0	0	0	0
5/12/2024 12:47	63803	HEMP_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
5/12/2024 12:47	63801	HEMP_T1	4	1	-3	0.38	0.1	-0.28	0	0	0	0	0	0	0	0
5/12/2024 12:49	66202	SISP_T2	0	0	0	0	0	0	-0.87	-0.89	0	0	0	0	0	0
5/12/2024 12:50	66202	SISP_T2	0	0	0	0	0	0	-0.87	-0.89	0	0	0	0	0	0
5/12/2024 12:50	54203	PENN_T1	18	18	0	0.43	0.47	0.04	0.62	0.62	0	0	0	0	0	0
5/12/2024 12:50	54201	PENN_T1	10	10	0	0.71	0.67	-0.04	0	0	0	0	0	0	0	0
5/12/2024 12:51	64101	REFR_T1	1	1	0	1	0.2	-0.8	0.04	0.05	0	0	0	0	0	0
5/12/2024 12:52	64101	REFR_T1	1	1	0	1	0.2	-0.8	0.04	0.05	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/12/2024 12:52	56501	ROCK_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/12/2024 12:52	56503	ROCK_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/12/2024 12:52	13302	ORVI_T2	0	0	0	0	0	0	1.32	1.38	0	0	0	0	0	0
5/12/2024 12:53	49803	UNIV_T1	0	0	0	0	0	0	-1.09	-1.07	0	0	0	0	0	0
5/12/2024 12:53	67703	WERN_T2	0	0	0	0	0	0	-0.99	-0.96	1	1	0	900	900	0
5/12/2024 12:54	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 12:54	56501	ROCK_T2	0	3	3	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
5/12/2024 12:56	16301	ALPA_T1	0	1	1	0	0.1	0.1	-0.4	-0.4	0	0	0	0	0	0
5/12/2024 12:56	64101	REFR_T1	1	1	0	1	0.2	-0.8	0.05	0.04	0	0	0	0	0	0
5/12/2024 13:00	65401	MARI_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
5/12/2024 13:02	60502	NMAN_T2	0	1	1	0	0.4	0.4	-0.63	-0.61	0	0	0	0	0	0
5/12/2024 13:02	60504	NMAN_T2	2	2	0	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
5/12/2024 13:02	60501	NMAN_T2	3	3	0	4.67	4.87	0.2	0	0	0	0	0	0	0	0
5/12/2024 13:03	47403	PENS_T1	3	4	1	0.37	0.38	0.01	0	0	0	0	0	0	0	0
5/12/2024 13:03	47402	PENS_T1	1	4	3	0.6	0.83	0.23	0	0	0	0	0	0	0	0
5/12/2024 13:03	47401	PENS_T1	3	16	13	0.47	0.55	0.08	0.94	0.87	0	0	0	0	0	0
5/12/2024 13:04	47402	PENS_T1	1	4	3	0.6	0.83	0.23	0	0	0	0	0	0	0	0
5/12/2024 13:04	47401	PENS_T1	3	16	13	0.47	0.55	0.08	3.76	3.46	0	0	0	0	0	0
5/12/2024 13:04	47403	PENS_T1	3	4	1	0.37	0.38	0.01	0	0	0	0	0	0	0	0
5/12/2024 13:05	42902	MIDD_T2	0	12	12	0	0.21	0.21	0	0	0	0	0	0	0	0
5/12/2024 13:05	42901	MIDD_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/12/2024 13:05	42903	MIDD_T2	3	5	2	1.17	2.08	0.91	-0.2	-0.12	0	0	0	0	0	0
5/12/2024 13:05	47403	PENS_T1	3	4	1	0.37	0.38	0.01	0	0	0	0	0	0	0	0
5/12/2024 13:05	47402	PENS_T1	1	4	3	0.6	0.83	0.23	0	0	0	0	0	0	0	0
5/12/2024 13:05	47401	PENS_T1	3	16	13	0.47	0.55	0.08	0.94	0.87	0	0	0	0	0	0
5/12/2024 13:06	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/12/2024 13:06	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	-0.6	-0.58	0	0	0	0	0	0
5/12/2024 13:06	66502	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/12/2024 13:06	47402	PENS_T1	1	4	3	0.6	0.83	0.23	0	0	0	0	0	0	0	0
5/12/2024 13:06	47403	PENS_T1	3	4	1	0.37	0.38	0.01	0	0	0	0	0	0	0	0
5/12/2024 13:06	47401	PENS_T1	3	16	13	0.47	0.55	0.08	0.94	0.87	0	0	0	0	0	0
5/12/2024 13:07	67804	WLAN_T1	0	0	0	0	0	0	-1.07	-1.08	0	0	0	0	0	0
5/12/2024 13:08	67601	WARW_T2	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
5/12/2024 13:08	67703	WERN_T2	0	0	0	0	0	0	-0.96	-0.99	1	1	0	900	900	0
5/12/2024 13:09	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 13:12	67703	WERN_T2	0	0	0	0	0	0	-0.96	-0.99	1	1	0	900	900	0
5/12/2024 13:17	63804	HEMP_T1	1	1	0	5.5	5.5	0	0.82	0.8	0	0	0	0	0	0
5/12/2024 13:19	59302	MCAL_T1	3	1	-2	0.33	0.4	0.07	0	0	0	0	0	0	0	0
5/12/2024 13:19	59301	MCAL_T1	22	56	34	0.37	0.3	-0.07	-1.8	-1.81	1	1	0	600	600	0
5/12/2024 13:21	14404	SSLA_T1	1	1	0	3.2	3.2	0	0.01	0	0	0	0	0	0	0
5/12/2024 13:22	64101	REFR_T1	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
5/12/2024 13:22	43201	MVIL_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
5/12/2024 13:23	67603	WARW_T1	0	2	2	0	0.15	0.15	-0.05	-0.04	0	0	0	0	0	0
5/12/2024 13:23	43202	MVIL_T2	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
5/12/2024 13:23	14404	SSLA_T1	1	1	0	3.2	3.2	0	0.01	0	0	0	0	0	0	0
5/12/2024 13:23	67605	WARW_T1	16	18	2	0.59	0.72	0.13	0	0	0	0	0	0	0	0
5/12/2024 13:23	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/12/2024 13:23	56501	ROCK_T2	3	8	5	0.1	0.23	0.13	-0.01	-0.01	0	0	0	0	0	0
5/12/2024 13:24	67603	WARW_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/12/2024 13:24	67605	WARW_T1	16	18	2	0.59	0.72	0.13	-1.19	-1.2	0	0	0	0	0	0
5/12/2024 13:25	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 13:25	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/12/2024 13:25	56501	ROCK_T2	3	8	5	0.1	0.23	0.13	-0.01	-0.01	0	0	0	0	0	0
5/12/2024 13:28	64101	REFR_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
5/12/2024 13:30	57401	SPAN_T1	1	0	-1	0.3	0	-0.3	-1.16	-1.07	1	1	0	600	600	0
5/12/2024 13:30	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/12/2024 13:31	41801	GOCI_T2	19	137	118	0.26	0.34	0.08	0	0	0	0	0	0	0	0
5/12/2024 13:31	14207	EALL_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/12/2024 13:31	14201	EALL_T1	0	0	0	0	0	0	0.5	0.55	0	0	0	0	0	0
5/12/2024 13:35	64305	LINC_T1	0	1	1	0	0.2	0.2	-0.74	-0.71	0	0	0	0	0	0
5/12/2024 13:40	61802	EELI_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
5/12/2024 13:40	61801	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 13:41	61802	EELI_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
5/12/2024 13:41	45602	WOOL_T1	4	2	-2	0.23	0.3	0.07	0	0	0	0	0	0	0	0
5/12/2024 13:41	45601	WOOL_T1	0	0	0	0	0	0	-0.18	-0.19	1	1	0	1200	1200	0
5/12/2024 13:41	61801	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 13:42	61802	EELI_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
5/12/2024 13:42	61801	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 13:44	46802	HEPB_T1	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
5/12/2024 13:49	47403	PENS_T1	5	4	-1	0.18	0.25	0.07	0	0	0	0	0	0	0	0
5/12/2024 13:49	47401	PENS_T1	32	4	-28	0.43	0.43	0	0.86	0.92	0	0	0	0	0	0
5/12/2024 13:49	47402	PENS_T1	7	4	-3	0.44	0.5	0.06	0	0	0	0	0	0	0	0
5/12/2024 13:50	65603	QVIL_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
5/12/2024 13:53	55102	WERT_T2	0	0	0	0	0	0	-0.95	-0.96	1	1	0	600	600	0
5/12/2024 13:54	67703	WERN_T2	0	0	0	0	0	0	-0.98	-0.97	1	1	0	900	900	0
5/12/2024 13:54	55101	WERT_T1	0	0	0	0	0	0	-3.16	-3.09	4	4	0	3000	3000	0
5/12/2024 13:55	61303	EARL_T1	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
5/12/2024 13:55	61302	EARL_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
5/12/2024 13:55	61304	EARL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/12/2024 13:56	61302	EARL_T1	1	1	0	0.3	0.8	0.5	0.74	0.68	1	1	0	600	600	0
5/12/2024 13:56	51109	CARL_T1	0	0	0	0	0	0	-1.03	-1.05	1	1	0	1200	1200	0
5/12/2024 13:56	51102	CARL_T1	66	100	34	0.17	0.25	0.08	0	0	0	0	0	0	0	0
5/12/2024 13:56	51108	CARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/12/2024 13:56	61303	EARL_T1	0	0	0	0	0	0	-0.16	-0.24	0	0	0	0	0	0
5/12/2024 13:56	61304	EARL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/12/2024 13:56	67703	WERN_T2	0	0	0	0	0	0	-0.98	-0.97	1	1	0	900	900	0
5/12/2024 13:58	61302	EARL_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
5/12/2024 13:58	61303	EARL_T1	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
5/12/2024 13:58	61304	EARL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/12/2024 14:00	11901	ETEX_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
5/12/2024 14:05	65803	RTWN_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/12/2024 14:05	65802	RTWN_T2	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
5/12/2024 14:08	67605	WARW_T1	16	18	2	0.66	0.66	0	-1.2	-1.19	0	0	0	0	0	0
5/12/2024 14:08	41903	REED_T1	0	0	0	0	0	0	1.24	1.26	0	0	0	0	0	0
5/12/2024 14:09	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 14:09	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/12/2024 14:10	64101	REFR_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
5/12/2024 14:10	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/12/2024 14:10	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 14:11	43801	SWIL_T1	2	2	0	3.2	3.2	0	0	0	0	0	0	0	0	0
5/12/2024 14:11	43802	SWIL_T1	0	0	0	0	0	0	-0.13	-0.1	1	1	0	600	600	0
5/12/2024 14:13	41502	FAIR_T2	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
5/12/2024 14:15	12005	HATF_T1	3	4	1	0.1	0.28	0.18	0	0	0	0	0	0	0	0
5/12/2024 14:15	12002	HATF_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
5/12/2024 14:20	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.21	1	1	0	600	600	0
5/12/2024 14:21	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.21	1	1	0	600	600	0
5/12/2024 14:23	45602	WOOL_T1	1	3	2	0.2	0.17	-0.03	0.38	0.43	0	0	0	0	0	0
5/12/2024 14:24	45602	WOOL_T1	1	3	2	0.2	0.17	-0.03	0.43	0.43	0	0	0	0	0	0
5/12/2024 14:24	13303	ORVI_T1	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
5/12/2024 14:25	64101	REFR_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
5/12/2024 14:26	16301	ALPA_T1	1	1	0	0.2	0.3	0.1	-0.4	-0.39	0	0	0	0	0	0
5/12/2024 14:28	45602	WOOL_T1	1	3	2	0.2	0.17	-0.03	0.43	0.43	0	0	0	0	0	0
5/12/2024 14:28	11904	ETEX_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
5/12/2024 14:29	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
5/12/2024 14:32	11904	ETEX_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
5/12/2024 14:33	64305	LINC_T1	0	1	1	0	0.3	0.3	-0.62	-0.63	0	0	0	0	0	0
5/12/2024 14:38	45402	WBLO_T2	1	3	2	1.4	0.6	-0.8	-3.48	-3.53	2	2	0	1800	1800	0
5/12/2024 14:38	48302	ORWI_T2	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/12/2024 14:40	51107	CARL_T1	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
5/12/2024 14:40	51101	CARL_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/12/2024 14:40	51109	CARL_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/12/2024 14:40	51102	CARL_T1	82	78	-4	0.2	0.25	0.05	0	0	0	0	0	0	0	0
5/12/2024 14:40	51108	CARL_T1	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
5/12/2024 14:41	61102	BERK_T5	0	0	0	0	0	0	0.25	0.3	1	1	0	300	300	0
5/12/2024 14:42	61304	EARL_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/12/2024 14:42	45402	WBLO_T2	1	3	2	1.4	0.6	-0.8	-1.76	-1.75	1	1	0	900	900	0
5/12/2024 14:42	61301	EARL_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
5/12/2024 14:42	61303	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/12/2024 14:43	53501	EVIL_T2	13	19	6	0.52	0.51	-0.01	0	0	0	0	0	0	0	0
5/12/2024 14:43	61306	EARL_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
5/12/2024 14:43	61304	EARL_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/12/2024 14:43	53502	EVIL_T2	0	3	3	0	0.17	0.17	0.65	0.63	0	0	0	0	0	0
5/12/2024 14:43	61303	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/12/2024 14:44	51101	CARL_T1	0	2	2	0	0.25	0.25	-1.32	-1.23	1	1	0	600	600	0
5/12/2024 14:44	51102	CARL_T1	82	78	-4	0.2	0.25	0.05	0	0	0	0	0	0	0	0
5/12/2024 14:44	51109	CARL_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/12/2024 14:44	51108	CARL_T1	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
5/12/2024 14:46	59301	MCAL_T1	5	3	-2	0.28	0.53	0.25	0	0	0	0	0	0	0	0
5/12/2024 14:46	59302	MCAL_T1	2	3	1	0.1	0.3	0.2	-0.48	-0.43	1	1	0	600	600	0
5/12/2024 14:46	59003	MIFF_T1	0	1	1	0.2	0.2	0.2	0.36	0.32	0	0	0	0	0	0
5/12/2024 14:46	59002	MIFF_T1	6	6	0	0.17	0.42	0.25	0	0	0	0	0	0	0	0
5/12/2024 14:48	65207	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/12/2024 14:49	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 14:50	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 14:51	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 14:51	42201	SHEN_T2	0	1	1	0	0.2	0.2	0.6	0.58	0	0	0	0	0	0
5/12/2024 14:53	67703	WERN_T2	0	0	0	0	0	0	-0.98	-0.96	1	1	0	900	900	0
5/12/2024 14:57	67703	WERN_T2	0	0	0	0	0	0	-0.98	-0.96	1	1	0	900	900	0
5/12/2024 14:58	44503	HAMI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/12/2024 14:58	44505	HAMI_T2	7	5	-2	0.44	0.78	0.34	0.27	0.28	0	0	0	0	0	0
5/12/2024 14:58	44502	HAMI_T2	5	4	-1	0.98	1.18	0.2	0	0	0	0	0	0	0	0
5/12/2024 14:58	41601	CLEV_T1	0	1	1	0	0.3	0.3	0	0	1	1	0	900	900	0
5/12/2024 14:58	44504	HAMI_T2	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
5/12/2024 14:58	41602	CLEV_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
5/12/2024 15:01	44503	HAMI_T2	0	0	0	0	0	0	-1.75	-1.74	1	1	0	1200	1200	0
5/12/2024 15:01	44502	HAMI_T2	4	2	-2	1.13	2.15	1.02	-0.97	-0.96	0	0	0	0	0	0
5/12/2024 15:01	44505	HAMI_T2	5	2	-3	0.78	0.5	-0.28	0	0	0	0	0	0	0	0
5/12/2024 15:01	44504	HAMI_T2	2	0	-2	0.8	0	-0.8	0	0	0	0	0	0	0	0
5/12/2024 15:02	44504	HAMI_T2	2	0	-2	0.8	0	-0.8	0	0	0	0	0	0	0	0
5/12/2024 15:02	44505	HAMI_T2	5	2	-3	0.78	0.5	-0.28	0	0	0	0	0	0	0	0
5/12/2024 15:02	44502	HAMI_T2	4	2	-2	1.13	2.15	1.02	-0.97	-0.96	0	0	0	0	0	0
5/12/2024 15:03	44505	HAMI_T2	5	2	-3	0.78	0.5	-0.28	0	0	0	0	0	0	0	0
5/12/2024 15:03	44504	HAMI_T2	2	0	-2	0.8	0	-0.8	-1.21	-1.28	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/12/2024 15:03	44502	HAMI_T2	4	2	-2	1.13	2.15	1.02	0	0	0	0	0	0	0	0
5/12/2024 15:04	42201	SHEN_T2	0	1	1	0	0.4	0.4	0.58	0.59	0	0	0	0	0	0
5/12/2024 15:10	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 15:10	43302	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/12/2024 15:11	67703	WERN_T2	0	0	0	0	0	0	-0.96	-0.99	1	1	0	900	900	0
5/12/2024 15:13	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
5/12/2024 15:13	29402	BELT_T1	1	1	0	7.4	7.7	0.3	0	0	0	0	0	0	0	0
5/12/2024 15:14	53501	EVIL_T2	15	20	5	0.44	0.44	0	-1.39	-1.26	0	0	0	0	0	0
5/12/2024 15:14	53502	EVIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/12/2024 15:15	53501	EVIL_T2	15	14	-1	0.5	0.46	-0.04	-0.7	-0.63	0	0	0	0	0	0
5/12/2024 15:15	53502	EVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/12/2024 15:17	53501	EVIL_T2	15	14	-1	0.5	0.46	-0.04	-0.7	-0.63	0	0	0	0	0	0
5/12/2024 15:17	53502	EVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/12/2024 15:19	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 15:19	65205	PRIN_T1	1	1	0	2.2	2.1	-0.1	0	0	0	0	0	0	0	0
5/12/2024 15:24	64101	REFR_T1	0	1	1	0	0.7	0.7	0.04	0.03	0	0	0	0	0	0
5/12/2024 15:35	42902	MIDD_T2	0	4	4	0	0.2	0.2	-0.72	-0.71	0	0	0	0	0	0
5/12/2024 15:35	42903	MIDD_T2	2	2	0	1.7	2	0.3	0	0	0	0	0	0	0	0
5/12/2024 15:40	64101	REFR_T1	1	0	-1	0.7	0	-0.7	0.03	0.03	0	0	0	0	0	0
5/12/2024 15:42	11405	FARM_T1	0	0	0	0	0	0	-1.11	-1.14	1	1	0	1200	1200	0
5/12/2024 15:59	63305	GREE_T1	0	0	0	0	0	0	-2.46	-2.45	1	1	0	900	900	0
5/12/2024 16:01	52002	LING_T2	0	0	0	0	0	0	-0.08	-0.14	0	0	0	0	0	0
5/12/2024 16:01	63305	GREE_T1	0	0	0	0	0	0	-2.46	-2.45	1	1	0	900	900	0
5/12/2024 16:02	46504	LOHA_T1	2	3	1	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
5/12/2024 16:02	46506	LOHA_T1	0	1	1	0	0.4	0.4	-0.4	-0.42	0	0	0	0	0	0
5/12/2024 16:02	46501	LOHA_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/12/2024 16:11	67605	WARW_T1	13	15	2	0.3	0.47	0.17	-1.16	-1.16	0	0	0	0	0	0
5/12/2024 16:13	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/12/2024 16:16	65401	MARI_T1	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
5/12/2024 16:16	65402	MARI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/12/2024 16:18	65402	MARI_T1	0	1	1	0	0.3	0.3	-0.3	-0.3	0	0	0	0	0	0
5/12/2024 16:19	65502	MOJO_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
5/12/2024 16:19	65503	MOJO_T2	3	2	-1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
5/12/2024 16:20	13503	MCMI_T2	18	47	29	0.14	0.21	0.07	-0.93	-0.93	0	0	0	0	0	0
5/12/2024 16:27	62104	ELAN_T1	0	0	0	0	0	0	0.83	0.89	1	1	0	300	300	0
5/12/2024 16:28	28704	HAML_T2	1	1	0	0.2	0.2	0	-0.01	-0.01	0	0	0	0	0	0
5/12/2024 16:28	28703	HAML_T2	2	3	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/12/2024 16:29	12005	HATF_T1	5	6	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/12/2024 16:29	62104	ELAN_T1	0	0	0	0	0	0	0.83	0.89	1	1	0	300	300	0
5/12/2024 16:29	12002	HATF_T1	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
5/12/2024 16:31	12005	HATF_T1	6	6	0	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
5/12/2024 16:31	12002	HATF_T1	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
5/12/2024 16:32	42902	MIDD_T2	2	1	-1	0.4	0.1	-0.3	-0.71	-0.7	0	0	0	0	0	0
5/12/2024 16:32	42903	MIDD_T2	2	2	0	1.75	1.45	-0.3	0	0	0	0	0	0	0	0
5/12/2024 16:33	42903	MIDD_T2	2	2	0	1.75	1.45	-0.3	0	0	0	0	0	0	0	0
5/12/2024 16:33	42902	MIDD_T2	2	1	-1	0.4	0.1	-0.3	-0.71	-0.7	0	0	0	0	0	0
5/12/2024 16:34	42903	MIDD_T2	2	2	0	1.75	1.45	-0.3	0	0	0	0	0	0	0	0
5/12/2024 16:34	42902	MIDD_T2	2	1	-1	0.4	0.1	-0.3	-1.42	-1.4	0	0	0	0	0	0
5/12/2024 16:35	42902	MIDD_T2	2	1	-1	0.4	0.1	-0.3	-0.71	-0.7	0	0	0	0	0	0
5/12/2024 16:35	42903	MIDD_T2	2	2	0	1.75	1.45	-0.3	0	0	0	0	0	0	0	0
5/12/2024 16:36	42902	MIDD_T2	2	1	-1	0.4	0.1	-0.3	-0.71	-0.7	0	0	0	0	0	0
5/12/2024 16:36	42903	MIDD_T2	2	2	0	1.75	1.45	-0.3	0	0	0	0	0	0	0	0
5/12/2024 16:59	14201	EALL_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
5/12/2024 16:59	14207	EALL_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
5/12/2024 17:08	65802	RTWN_T2	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
5/12/2024 17:16	41801	GOO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 17:32	27605	PIRI_T2	0	0	0	0	0	0	-0.69	-0.71	1	1	0	900	900	0
5/12/2024 17:40	51107	CARL_T1	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
5/12/2024 17:40	51102	CARL_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
5/12/2024 17:41	51107	CARL_T1	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
5/12/2024 17:41	51102	CARL_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
5/12/2024 17:42	60902	DONG_T2	0	0	0	0	0	0	0.64	0.66	0	0	0	0	0	0
5/12/2024 17:42	60904	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/12/2024 17:43	20401	ASHF_T2	2	2	0	0.15	0.15	0	-0.44	-0.41	0	0	0	0	0	0
5/12/2024 17:43	20403	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 17:47	65001	NEFF_T2	0	0	0	0	0	0	-1.32	-1.22	1	1	0	1200	1200	0
5/12/2024 17:57	62607	ENGL_T1	1	1	0	0.5	0.3	-0.2	-1.1	-1.1	1	1	0	300	300	0
5/12/2024 18:19	13501	MCMI_T1	0	0	0	0	0	0	0.17	0.12	0	0	0	0	0	0
5/12/2024 18:20	16902	MECK_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
5/12/2024 18:24	65801	RTWN_T1	0	0	0	0	0	0	-1.15	-1.13	2	2	0	1200	1200	0
5/12/2024 19:01	11904	ETEX_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
5/12/2024 19:03	65402	MARI_T1	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
5/12/2024 19:17	53502	EVIL_T2	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
5/12/2024 19:17	53501	EVIL_T2	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/12/2024 19:18	13501	MCMI_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
5/12/2024 19:52	43802	SWIL_T1	0	0	0	0	0	0	-0.08	-0.08	1	1	0	600	600	0
5/12/2024 19:52	43801	SWIL_T1	2	2	0	3.25	3.25	0	0	0	0	0	0	0	0	0
5/12/2024 20:00	67605	WARW_T1	12	13	1	0.28	0.33	0.05	-1.21	-1.23	0	0	0	0	0	0
5/12/2024 20:30	54604	SUMM_T2	0	0	0	0	0	0	-1.93	-1.93	2	2	0	2100	2100	0
5/12/2024 20:58	45901	AUBU_T1	0	0	0	0	0	0	0.93	0.99	0	0	0	0	0	0
5/12/2024 21:05	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 21:05	40502	CRES_T2	17	19	2	0.26	0.26	0	-0.06	-0.11	0	0	0	0	0	0
5/12/2024 21:28	40501	CRES_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/12/2024 21:28	40502	CRES_T2	13	24	11	0.21	0.35	0.14	-0.12	-0.11	0	0	0	0	0	0
5/12/2024 21:32	28805	LAKE_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
5/12/2024 21:34	28805	LAKE_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
5/12/2024 21:43	56501	ROCK_T2	1	5	4	1.7	0.52	-1.18	-0.01	-0.01	0	0	0	0	0	0
5/12/2024 21:48	56802	BENV_T2	0	0	0	0	0	0	-1.5	-1.53	0	0	0	0	0	0
5/12/2024 21:49	40502	CRES_T2	24	6	-18	0.35	0.27	-0.08	-0.11	0.46	0	0	0	0	0	0
5/12/2024 21:49	40501	CRES_T2	3	2	-1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
5/12/2024 21:50	13501	MCMI_T1	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
5/12/2024 21:50	40501	CRES_T2	3	2	-1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
5/12/2024 21:50	40502	CRES_T2	24	6	-18	0.35	0.27	-0.08	-0.11	0.46	0	0	0	0	0	0
5/12/2024 21:51	55001	NEWP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/12/2024 21:51	55002	NEWP_T1	5	6	1	0.42	0.53	0.11	-0.3	-0.29	0	0	0	0	0	0
5/12/2024 21:52	55001	NEWP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/12/2024 21:52	55002	NEWP_T1	5	6	1	0.42	0.53	0.11	-0.3	-0.29	0	0	0	0	0	0
5/12/2024 21:53	55002	NEWP_T1	5	6	1	0.42	0.53	0.11	-0.29	-0.27	0	0	0	0	0	0
5/12/2024 21:53	55001	NEWP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/12/2024 21:54	56802	BENV_T2	0	0	0	0	0	0	-1.53	-1.52	0	0	0	0	0	0
5/12/2024 21:55	55002	NEWP_T1	5	6	1	0.42	0.53	0.11	-0.29	-0.27	0	0	0	0	0	0
5/12/2024 21:55	55001	NEWP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/12/2024 21:55	56802	BENV_T2	0	0	0	0	0	0	-1.53	-1.52	0	0	0	0	0	0
5/12/2024 21:56	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
5/12/2024 21:56	29402	BELT_T1	1	1	0	7.5	8.3	0.8	0	0	0	0	0	0	0	0
5/12/2024 21:57	40501	CRES_T2	3	2	-1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
5/12/2024 21:57	40502	CRES_T2	24	6	-18	0.35	0.27	-0.08	0.46	0.49	0	0	0	0	0	0
5/12/2024 21:58	56501	ROCK_T2	3	6	3	0.7	0.55	-0.15	-0.01	-0.01	0	0	0	0	0	0
5/12/2024 21:58	29402	BELT_T1	1	1	0	7.5	8.3	0.8	0	0	0	0	0	0	0	0
5/12/2024 21:58	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/12/2024 21:59	56802	BENV_T2	0	0	0	0	0	0	-1.53	-1.52	0	0	0	0	0	0
5/12/2024 22:00	40502	CRES_T2	4	5	1	0.3	0.24	-0.06	0.46	0.49	0	0	0	0	0	0
5/12/2024 22:00	20603	GRWO_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
5/12/2024 22:00	20601	GRWO_T2	2	5	3	0.1	0.16	0.06	0	0	0	0	0	0	0	0
5/12/2024 22:00	16902	MECK_T1	0	3	3	0	0.13	0.13	0.06	0.06	0	0	0	0	0	0
5/12/2024 22:00	46302	ROHR_T1	4	4	0	1.9	1.95	0.05	0.13	0.13	0	0	0	0	0	0
5/12/2024 22:00	40501	CRES_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/12/2024 22:01	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/12/2024 22:01	29402	BELT_T1	1	2	1	7.8	8.3	0.5	0	0	0	0	0	0	0	0
5/12/2024 22:01	13303	ORVI_T1	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
5/12/2024 22:03	59101	WALK_T2	0	0	0	0	0	0	1.09	0.87	0	0	0	0	0	0
5/12/2024 22:03	13302	ORVI_T2	0	11	11	0	0.15	0.15	1.33	1.33	0	0	0	0	0	0
5/12/2024 22:04	29402	BELT_T1	1	2	1	7.8	8.3	0.5	0	0	0	0	0	0	0	0
5/12/2024 22:04	65603	QVIL_T2	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
5/12/2024 22:04	24902	WHHA_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
5/12/2024 22:05	20401	ASHF_T2	2	3	1	0.1	0.2	0.1	-0.48	-0.5	0	0	0	0	0	0
5/12/2024 22:05	11405	FARM_T1	1	3	2	3.7	1.03	-2.67	-1.1	-1.12	1	1	0	1200	1200	0
5/12/2024 22:05	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 22:06	63602	LETO_T1	0	0	0	0	0	0	-0.54	-0.6	0	0	0	0	0	0
5/12/2024 22:06	42903	MIDD_T2	2	2	0	0.95	1.15	0.2	-0.37	-0.39	0	0	0	0	0	0
5/12/2024 22:06	14404	SSLA_T1	1	1	0	4.4	4.8	0.4	-0.04	-0.04	0	0	0	0	0	0
5/12/2024 22:06	14403	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 22:06	63401	HONY_T1	0	0	0	0	0	0	0.16	0.26	0	0	0	0	0	0
5/12/2024 22:06	61303	EARL_T1	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
5/12/2024 22:06	63404	HONY_T1	137	136	-1	0.35	0.41	0.06	0	0	0	0	0	0	0	0
5/12/2024 22:07	46504	LOHA_T1	41	2	-39	0.38	1.15	0.77	0	0	0	0	0	0	0	0
5/12/2024 22:07	51102	CARL_T1	13	100	87	0.13	0.24	0.11	0	0	0	0	0	0	0	0
5/12/2024 22:07	51101	CARL_T1	0	0	0	0	0	0	-1.55	-1.58	1	1	0	600	600	0
5/12/2024 22:07	12002	HATF_T1	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
5/12/2024 22:07	40902	JESH_T1	0	0	0	0	0	0	-0.95	-0.98	0	0	0	0	0	0
5/12/2024 22:07	66203	SISP_T2	0	0	0	0	0	0	-1.58	-1.58	1	1	0	1200	1200	0
5/12/2024 22:07	43202	MVIL_T2	3	28	25	0.13	0.16	0.03	-0.73	-0.72	0	0	0	0	0	0
5/12/2024 22:07	46506	LOHA_T1	1	1	0	0.8	0.6	-0.2	-0.46	-0.45	0	0	0	0	0	0
5/12/2024 22:07	12005	HATF_T1	4	4	0	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
5/12/2024 22:07	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 22:08	54201	PENN_T1	8	10	2	0.91	0.95	0.04	0	0	0	0	0	0	0	0
5/12/2024 22:08	59101	WALK_T2	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
5/12/2024 22:08	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 22:08	44503	HAMI_T2	0	6	6	0	0.1	0.1	-1.78	-1.78	1	1	0	1200	1200	0
5/12/2024 22:08	62104	ELAN_T1	0	0	0	0	0	0	0.68	0.67	1	1	0	300	300	0
5/12/2024 22:08	45902	AUBU_T1	7	4	-3	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
5/12/2024 22:08	52004	LING_T2	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
5/12/2024 22:08	51102	CARL_T1	13	100	87	0.13	0.24	0.11	0	0	0	0	0	0	0	0
5/12/2024 22:08	44502	HAMI_T2	1	1	0	3.5	3.7	0.2	0	0	0	0	0	0	0	0
5/12/2024 22:08	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/12/2024 22:08	45901	AUBU_T1	0	0	0	0	0	0	0.92	0.96	0	0	0	0	0	0
5/12/2024 22:08	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/12/2024 22:08	54203	PENN_T1	18	18	0	0.86	1.01	0.15	-0.1	-0.08	1	1	0	600	600	0
5/12/2024 22:08	52006	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/12/2024 22:08	29402	BELT_T1	1	2	1	7.8	8.3	0.5	0	0	0	0	0	0	0	0
5/12/2024 22:08	14403	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 22:08	14404	SSLA_T1	1	1	0	4.4	4.8	0.4	-0.04	-0.04	0	0	0	0	0	0
5/12/2024 22:08	51108	CARL_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/12/2024 22:09	42201	SHEN_T2	0	0	0	0	0	0	0.62	0.65	0	0	0	0	0	0
5/12/2024 22:09	65001	NEFF_T2	12	135	123	0.1	0.18	0.08	-1.4	-1.39	1	1	0	1200	1200	0
5/12/2024 22:09	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/12/2024 22:10	12002	HATF_T1	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
5/12/2024 22:10	65001	NEFF_T2	12	135	123	0.1	0.18	0.08	-1.4	-1.39	1	1	0	1200	1200	0
5/12/2024 22:10	65503	MOJO_T2	2	10	8	0.1	0.19	0.09	-1.47	-0.55	1	0	-1	900	0	-900
5/12/2024 22:10	45602	WOOL_T1	1	1	0	0.2	0.4	0.2	0.4	0.4	0	0	0	0	0	0
5/12/2024 22:10	40302	TAMA_T3	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/12/2024 22:10	45902	AUBU_T1	7	4	-3	0.17	0.15	-0.02	-0.56	-0.5	0	0	0	0	0	0
5/12/2024 22:10	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 22:10	11904	ETEX_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
5/12/2024 22:10	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.28	1	1	0	600	600	0
5/12/2024 22:10	12005	HATF_T1	4	4	0	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
5/12/2024 22:11	61502	EPET_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/12/2024 22:11	12701	MACU_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/12/2024 22:11	66504	SMAN_T2	0	0	0	0	0	0	-1.37	-1.41	0	0	0	0	0	0
5/12/2024 22:11	51101	CARL_T1	0	0	0	0	0	0	-1.58	-1.53	1	1	0	600	600	0
5/12/2024 22:11	63304	GREE_T1	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/12/2024 22:11	67703	WERN_T2	0	0	0	0	0	0	-1.06	-1.06	1	1	0	900	900	0
5/12/2024 22:11	66505	SMAN_T2	3	3	0	0.43	0.83	0.4	0	0	0	0	0	0	0	0
5/12/2024 22:11	47103	MARL_T2	0	0	0	0	0	0	-0.71	-0.68	0	0	0	0	0	0
5/12/2024 22:11	42802	SELI_T1	1	1	0	0.3	0.3	0	-0.04	-0.05	0	0	0	0	0	0
5/12/2024 22:11	63305	GREE_T1	54	12	-42	0.16	0.17	0.01	-2.56	-2.53	1	1	0	900	900	0
5/12/2024 22:11	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 22:11	61503	EPET_T1	0	0	0	0	0	0	-1.32	-1.29	0	0	0	0	0	0
5/12/2024 22:11	51102	CARL_T1	13	100	87	0.13	0.24	0.11	0	0	0	0	0	0	0	0
5/12/2024 22:12	16301	ALPA_T1	1	2	1	0.3	0.35	0.05	-0.5	-0.52	0	0	0	0	0	0
5/12/2024 22:12	65401	MARI_T1	19	65	46	0.1	0.13	0.03	0.28	0.27	0	0	0	0	0	0
5/12/2024 22:12	14207	EALL_T1	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
5/12/2024 22:12	65402	MARI_T1	1	6	5	0.1	0.12	0.02	0	0	0	0	0	0	0	0
5/12/2024 22:12	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 22:12	63804	HEMP_T1	5	5	0	1.26	1.28	0.02	0	0	0	0	0	0	0	0
5/12/2024 22:12	43202	MVIL_T2	3	28	25	0.13	0.16	0.03	0	0	0	0	0	0	0	0
5/12/2024 22:12	45902	AUBU_T1	7	4	-3	0.17	0.15	-0.02	-0.56	-0.5	0	0	0	0	0	0
5/12/2024 22:12	63801	HEMP_T1	103	167	64	0.19	0.23	0.04	0	0	0	0	0	0	0	0
5/12/2024 22:12	63803	HEMP_T1	73	111	38	0.16	0.22	0.06	0	0	0	0	0	0	0	0
5/12/2024 22:12	65207	PRIN_T4	0	7	7	0	0.11	0.11	0	0	2	2	0	1800	1800	0
5/12/2024 22:12	12701	MACU_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/12/2024 22:12	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/12/2024 22:12	65206	PRIN_T4	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/12/2024 22:12	63802	HEMP_T1	0	5	5	0	0.1	0.1	0.12	0.07	0	0	0	0	0	0
5/12/2024 22:12	43201	MVIL_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
5/12/2024 22:12	42802	SELI_T1	1	1	0	0.3	0.3	0	-0.04	-0.05	0	0	0	0	0	0
5/12/2024 22:12	14201	EALL_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
5/12/2024 22:13	40701	FFLD_T1	32	38	6	0.35	0.4	0.05	0	0	0	0	0	0	0	0
5/12/2024 22:13	67703	WERN_T2	0	0	0	0	0	0	-1.06	-1.06	1	1	0	900	900	0
5/12/2024 22:13	45902	AUBU_T1	7	4	-3	0.17	0.15	-0.02	-1.67	-1.5	0	0	0	0	0	0
5/12/2024 22:13	64101	REFR_T1	0	0	0	0	0	0	-0.65	-0.55	0	0	0	0	0	0
5/12/2024 22:13	59002	MIFF_T1	6	6	0	0.32	0.72	0.4	0	0	0	0	0	0	0	0
5/12/2024 22:13	67603	WARW_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
5/12/2024 22:13	59003	MIFF_T1	1	1	0	0.2	0.4	0.2	0.29	0.34	0	0	0	0	0	0
5/12/2024 22:13	65402	MARI_T1	1	6	5	0.1	0.12	0.02	0	0	0	0	0	0	0	0
5/12/2024 22:13	67605	WARW_T1	17	29	12	0.55	0.58	0.03	0	0	0	0	0	0	0	0
5/12/2024 22:13	65804	RTWN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/12/2024 22:13	43202	MVIL_T2	3	28	25	0.13	0.16	0.03	-0.72	-0.73	0	0	0	0	0	0
5/12/2024 22:13	65401	MARI_T1	19	65	46	0.1	0.13	0.03	0.28	0.27	0	0	0	0	0	0
5/12/2024 22:13	40703	FFLD_T1	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/12/2024 22:13	40702	FFLD_T1	176	196	20	0.32	0.41	0.09	-1.4	-1.36	1	1	0	1200	1200	0
5/12/2024 22:13	67804	WLAN_T1	0	0	0	0	0	0	-1.11	-1.13	0	0	0	0	0	0
5/12/2024 22:13	47103	MARL_T2	0	0	0	0	0	0	-0.71	-0.68	0	0	0	0	0	0
5/12/2024 22:13	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 22:13	65801	RTWN_T1	2	2	0	0.1	0.1	0	-1.23	-1.19	2	2	0	1200	1200	0
5/12/2024 22:14	29402	BELT_T1	1	2	1	7.8	8.3	0.5	0	0	0	0	0	0	0	0
5/12/2024 22:14	11904	ETEX_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
5/12/2024 22:14	45901	AUBU_T1	0	0	0	0	0	0	0.92	0.96	0	0	0	0	0	0
5/12/2024 22:14	59301	MCAL_T1	2	2	0	0.7	0.8	0.1	-1.88	-1.86	1	1	0	600	600	0
5/12/2024 22:14	45902	AUBU_T1	7	4	-3	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
5/12/2024 22:14	65202	PRIN_T1	141	164	23	0.22	0.23	0.01	0	0	0	0	0	0	0	0
5/12/2024 22:14	42902	MIDD_T2	0	0	0	0	0	0	-1.48	-1.48	0	0	0	0	0	0
5/12/2024 22:14	65203	PRIN_T1	102	151	49	0.22	0.26	0.04	0	0	0	0	0	0	0	0
5/12/2024 22:14	47401	PENS_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
5/12/2024 22:14	42903	MIDD_T2	2	2	0	0.95	1.15	0.2	0	0	0	0	0	0	0	0
5/12/2024 22:14	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/12/2024 22:14	67605	WARW_T1	17	29	12	0.55	0.58	0.03	-1.3	-1.32	0	0	0	0	0	0
5/12/2024 22:14	28703	HAML_T2	3	3	0	0.5	0.73	0.23	0	0	0	0	0	0	0	0
5/12/2024 22:14	61303	EARL_T1	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
5/12/2024 22:14	62607	ENGL_T1	0	0	0	0	0	0	-1.17	-1.2	1	1	0	300	300	0
5/12/2024 22:14	46302	ROHR_T1	4	4	0	1.9	1.95	0.05	0.13	0.12	0	0	0	0	0	0
5/12/2024 22:14	47103	MARL_T2	0	0	0	0	0	0	-0.71	-0.68	0	0	0	0	0	0
5/12/2024 22:14	65205	PRIN_T1	117	181	64	0.18	0.26	0.08	0	0	0	0	0	0	0	0
5/12/2024 22:14	28704	HAML_T2	1	1	0	0.8	0.8	0	-0.01	-0.01	0	0	0	0	0	0
5/12/2024 22:14	67703	WERN_T2	0	0	0	0	0	0	-1.06	-1.06	1	1	0	900	900	0
5/12/2024 22:14	59302	MCAL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/12/2024 22:14	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.18	0	0	0	0	0	0
5/12/2024 22:14	66202	SISP_T2	0	0	0	0	0	0	0.91	0.92	0	0	0	0	0	0
5/12/2024 22:15	62106	ELAN_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
5/12/2024 22:15	12005	HATF_T1	4	4	0	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
5/12/2024 22:15	65801	RTWN_T1	2	0	-2	0.1	0	-0.1	-1.23	-1.19	2	2	0	1200	1200	0
5/12/2024 22:15	45902	AUBU_T1	4	0	-4	0.15	0	-0.15	-0.56	-0.5	0	0	0	0	0	0
5/12/2024 22:15	51102	CARL_T1	36	127	91	0.14	0.3	0.16	0	0	0	0	0	0	0	0
5/12/2024 22:15	51104	CARL_T1	0	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0
5/12/2024 22:15	65804	RTWN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/12/2024 22:15	42902	MIDD_T2	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
5/12/2024 22:15	51107	CARL_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
5/12/2024 22:15	62102	ELAN_T1	0	0	0	0	0	0	0.5	0.53	0	0	0	0	0	0
5/12/2024 22:15	47401	PENS_T1	0	0	0	0	0	0	3	3.04	0	0	0	0	0	0
5/12/2024 22:15	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 22:15	42903	MIDD_T2	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
5/12/2024 22:15	12006	HATF_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
5/12/2024 22:15	58402	MORO_T1	0	0	0	0	0	0	-0.61	-0.62	2	2	0	1500	1500	0
5/12/2024 22:16	51102	CARL_T1	36	127	91	0.14	0.3	0.16	0	0	0	0	0	0	0	0
5/12/2024 22:16	42201	SHEN_T2	0	0	0	0	0	0	0.62	0.65	0	0	0	0	0	0
5/12/2024 22:16	45602	WOOL_T1	1	1	0	0.3	0.4	0.1	0.4	0.4	0	0	0	0	0	0
5/12/2024 22:16	63802	HEMP_T1	4	7	3	0.1	0.1	0	0	0	0	0	0	0	0	0
5/12/2024 22:16	62104	ELAN_T1	0	0	0	0	0	0	0.68	0.67	1	1	0	300	300	0
5/12/2024 22:16	63801	HEMP_T1	135	167	32	0.19	0.23	0.04	0	0	0	0	0	0	0	0
5/12/2024 22:16	56501	ROCK_T2	6	21	15	0.55	0.3	-0.25	-0.01	-0.01	0	0	0	0	0	0
5/12/2024 22:16	51108	CARL_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
5/12/2024 22:16	58402	MORO_T1	0	0	0	0	0	0	-0.61	-0.62	2	2	0	1500	1500	0
5/12/2024 22:16	67402	WAKE_T2	0	0	0	0	0	0	-0.55	-0.56	1	1	0	600	600	0
5/12/2024 22:16	66505	SMAN_T2	3	3	0	0.8	0.8	0	-0.31	-0.33	2	2	0	1100	1100	0
5/12/2024 22:16	63803	HEMP_T1	89	108	19	0.18	0.22	0.04	0	0	0	0	0	0	0	0
5/12/2024 22:16	20601	GRWO_T2	5	10	5	0.16	0.16	0	-0.42	-0.35	0	0	0	0	0	0
5/12/2024 22:16	10801	CHHI_T1	0	0	0	0	0	0	-0.99	-0.96	1	1	0	900	900	0
5/12/2024 22:16	63804	HEMP_T1	5	5	0	1.24	1.3	0.06	0.73	0.71	0	0	0	0	0	0
5/12/2024 22:16	51104	CARL_T1	0	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0
5/12/2024 22:17	40101	HUNT_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
5/12/2024 22:17	47401	PENS_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
5/12/2024 22:17	42902	MIDD_T2	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
5/12/2024 22:17	13503	MCMI_T2	63	177	114	0.33	0.35	0.02	-0.95	-0.97	0	0	0	0	0	0
5/12/2024 22:17	59301	MCAL_T1	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/12/2024 22:17	59302	MCAL_T1	1	1	0	0.3	0.4	0.1	-0.46	-0.46	1	1	0	600	600	0
5/12/2024 22:17	45902	AUBU_T1	4	0	-4	0.15	0	-0.15	-0.56	-0.5	0	0	0	0	0	0
5/12/2024 22:17	42903	MIDD_T2	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
5/12/2024 22:17	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.18	0	0	0	0	0	0
5/12/2024 22:17	67803	WLAN_T1	0	0	0	0	0	0	-1.58	-1.62	0	0	0	0	0	0
5/12/2024 22:17	44502	HAMI_T2	1	1	0	3.7	3.8	0.1	-1.02	-0.99	0	0	0	0	0	0
5/12/2024 22:17	66202	SISP_T2	0	0	0	0	0	0	-1.83	-1.85	0	0	0	0	0	0
5/12/2024 22:17	44503	HAMI_T2	2	13	11	0.1	0.12	0.02	0	0	0	0	0	0	0	0
5/12/2024 22:17	56501	ROCK_T2	6	21	15	0.55	0.3	-0.25	-0.01	-0.01	0	0	0	0	0	0
5/12/2024 22:17	24902	WHHA_T1	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
5/12/2024 22:18	24902	WHHA_T1	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
5/12/2024 22:18	67605	WARW_T1	25	31	6	0.54	0.63	0.09	-1.3	-1.32	0	0	0	0	0	0
5/12/2024 22:18	16301	ALPA_T1	1	3	2	0.6	0.27	-0.33	-0.5	-0.52	0	0	0	0	0	0
5/12/2024 22:18	12005	HATF_T1	4	4	0	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
5/12/2024 22:18	59002	MIFF_T1	6	6	0	0.53	0.7	0.17	0	0	0	0	0	0	0	0
5/12/2024 22:18	59101	WALK_T2	0	1	1	0	0.1	0.1	0.87	0.87	0	0	0	0	0	0
5/12/2024 22:18	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.28	1	1	0	600	600	0
5/12/2024 22:18	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.52	1	1	0	900	900	0
5/12/2024 22:18	59003	MIFF_T1	1	1	0	0.4	0.4	0	0.29	0.34	0	0	0	0	0	0
5/12/2024 22:18	12002	HATF_T1	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
5/12/2024 22:19	60502	NMAN_T2	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
5/12/2024 22:19	53501	EVIL_T2	3	5	2	0.63	0.58	-0.05	-0.71	-0.69	0	0	0	0	0	0
5/12/2024 22:19	45501	DERR_T2	0	0	0	0	0	0	-0.62	-0.64	2	2	0	1800	1800	0
5/12/2024 22:19	44503	HAMI_T2	2	13	11	0.1	0.12	0.02	0	0	0	0	0	0	0	0
5/12/2024 22:19	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.18	0	0	0	0	0	0
5/12/2024 22:19	65901	SAKR_T2	1	1	0	9	9	0	-1.37	-1.42	1	1	0	900	900	0
5/12/2024 22:19	44502	HAMI_T2	1	1	0	3.7	3.8	0.1	-1.02	-0.99	0	0	0	0	0	0
5/12/2024 22:19	44505	HAMI_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
5/12/2024 22:19	51104	CARL_T1	0	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0
5/12/2024 22:19	11901	ETEX_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
5/12/2024 22:19	63305	GREE_T1	7	17	10	0.15	0.16	0.01	-2.56	-2.53	1	1	0	900	900	0
5/12/2024 22:19	60501	NMAN_T2	4	3	-1	4.03	5.3	1.27	0	0	0	0	0	0	0	0
5/12/2024 22:19	51102	CARL_T1	36	127	91	0.14	0.3	0.16	0	0	0	0	0	0	0	0
5/12/2024 22:19	61303	EARL_T1	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
5/12/2024 22:19	63304	GREE_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
5/12/2024 22:19	42903	MIDD_T2	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
5/12/2024 22:19	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 22:19	51107	CARL_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
5/12/2024 22:19	40101	HUNT_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
5/12/2024 22:19	42902	MIDD_T2	0	0	0	0	0	0	-1.48	-1.48	0	0	0	0	0	0
5/12/2024 22:20	45902	AUBU_T1	4	0	-4	0.15	0	-0.15	-0.56	-0.5	0	0	0	0	0	0
5/12/2024 22:20	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.28	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/12/2024 22:20	45402	WBLO_T2	1	1	0	0.8	1.1	0.3	-1.84	-1.85	1	1	0	900	900	0
5/12/2024 22:20	61302	EARL_T1	0	0	0	0	0	0	-0.62	-0.59	2	2	0	1800	1800	0
5/12/2024 22:20	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 22:20	65402	MARI_T1	2	10	8	0.1	0.13	0.03	-0.32	-0.36	0	0	0	0	0	0
5/12/2024 22:20	45501	DERR_T2	0	0	0	0	0	0	-0.62	-0.64	2	2	0	1800	1800	0
5/12/2024 22:20	60902	DONG_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
5/12/2024 22:20	47401	PENS_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
5/12/2024 22:20	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/12/2024 22:20	45602	WOOL_T1	1	1	0	0.3	0.4	0.1	0.4	0.4	0	0	0	0	0	0
5/12/2024 22:20	42201	SHEN_T2	0	0	0	0	0	0	0.62	0.65	0	0	0	0	0	0
5/12/2024 22:20	65503	MOJO_T2	10	0	-10	0.19	0	-0.19	-1.47	-0.55	1	0	-1	900	0	-900
5/12/2024 22:20	65401	MARI_T1	55	92	37	0.12	0.15	0.03	0	0	0	0	0	0	0	0
5/12/2024 22:21	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.18	0	0	0	0	0	0
5/12/2024 22:21	65502	MOJO_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
5/12/2024 22:21	47401	PENS_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
5/12/2024 22:21	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 22:21	53502	EVIL_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
5/12/2024 22:21	53501	EVIL_T2	3	5	2	0.63	0.58	-0.05	0	0	0	0	0	0	0	0
5/12/2024 22:21	42903	MIDD_T2	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
5/12/2024 22:21	42902	MIDD_T2	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
5/12/2024 22:21	46504	LOHA_T1	2	2	0	1.15	0.7	-0.45	0	0	0	0	0	0	0	0
5/12/2024 22:21	12701	MACU_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/12/2024 22:21	65503	MOJO_T2	10	0	-10	0.19	0	-0.19	0	0	0	0	0	0	0	0
5/12/2024 22:21	46506	LOHA_T1	1	1	0	0.6	0.6	0	-0.45	-0.46	0	0	0	0	0	0
5/12/2024 22:22	41502	FAIR_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
5/12/2024 22:22	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 22:22	46802	HEPB_T1	1	1	0	0.5	0.6	0.1	-0.44	-0.47	0	0	0	0	0	0
5/12/2024 22:22	44503	HAMI_T2	2	13	11	0.1	0.12	0.02	0	0	0	0	0	0	0	0
5/12/2024 22:22	44502	HAMI_T2	1	1	0	3.7	3.8	0.1	0	0	0	0	0	0	0	0
5/12/2024 22:22	53501	EVIL_T2	3	5	2	0.63	0.58	-0.05	-1.43	-1.39	0	0	0	0	0	0
5/12/2024 22:22	46506	LOHA_T1	1	1	0	0.6	0.6	0	-0.45	-0.46	0	0	0	0	0	0
5/12/2024 22:22	47401	PENS_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
5/12/2024 22:22	46504	LOHA_T1	2	2	0	1.15	0.7	-0.45	0	0	0	0	0	0	0	0
5/12/2024 22:22	42201	SHEN_T2	0	0	0	0	0	0	0.62	0.65	0	0	0	0	0	0
5/12/2024 22:22	44504	HAMI_T2	0	0	0	0	0	0	-1.4	-1.4	0	0	0	0	0	0
5/12/2024 22:23	65401	MARI_T1	55	92	37	0.12	0.15	0.03	0	0	0	0	0	0	0	0
5/12/2024 22:23	58402	MORO_T1	0	0	0	0	0	0	-0.62	-0.65	2	2	0	1500	1500	0
5/12/2024 22:23	65803	RTWN_T2	6	0	-6	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/12/2024 22:23	45402	WBLO_T2	1	1	0	0.8	1.1	0.3	-3.68	-3.71	2	2	0	1800	1800	0
5/12/2024 22:23	65802	RTWN_T2	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
5/12/2024 22:23	44301	BEAV_T2	0	0	0	0	0	0	-0.56	-0.51	1	1	0	600	600	0
5/12/2024 22:23	47401	PENS_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
5/12/2024 22:23	65402	MARI_T1	2	10	8	0.1	0.13	0.03	-0.36	-0.36	0	0	0	0	0	0
5/12/2024 22:24	51107	CARL_T1	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
5/12/2024 22:24	43802	SWIL_T1	0	0	0	0	0	0	-0.15	-0.21	1	1	0	600	600	0
5/12/2024 22:24	63802	HEMP_T1	4	7	3	0.1	0.1	0	0	0	0	0	0	0	0	0
5/12/2024 22:24	63803	HEMP_T1	89	108	19	0.18	0.22	0.04	0	0	0	0	0	0	0	0
5/12/2024 22:24	63804	HEMP_T1	5	5	0	1.24	1.3	0.06	0	0	0	0	0	0	0	0
5/12/2024 22:24	63801	HEMP_T1	135	167	32	0.19	0.23	0.04	-0.42	-0.42	0	0	0	0	0	0
5/12/2024 22:24	43301	WATS_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/12/2024 22:24	53501	EVIL_T2	3	5	2	0.63	0.58	-0.05	-0.69	-0.7	0	0	0	0	0	0
5/12/2024 22:24	51104	CARL_T1	0	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0
5/12/2024 22:24	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 22:24	43801	SWIL_T1	2	2	0	3.3	3.3	0	0	0	0	0	0	0	0	0
5/12/2024 22:24	51102	CARL_T1	36	127	91	0.14	0.3	0.16	0	0	0	0	0	0	0	0
5/12/2024 22:25	45501	DERR_T2	0	0	0	0	0	0	-0.64	-0.51	2	2	0	1800	1800	0
5/12/2024 22:25	43301	WATS_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/12/2024 22:25	53501	EVIL_T2	3	5	2	0.63	0.58	-0.05	-0.69	-0.7	0	0	0	0	0	0
5/12/2024 22:25	63802	HEMP_T1	4	7	3	0.1	0.1	0	0	0	0	0	0	0	0	0
5/12/2024 22:25	63801	HEMP_T1	135	167	32	0.19	0.23	0.04	0	0	0	0	0	0	0	0
5/12/2024 22:25	61303	EARL_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
5/12/2024 22:25	41902	REED_T1	0	0	0	0	0	0	0.71	0.72	0	0	0	0	0	0
5/12/2024 22:25	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 22:25	63804	HEMP_T1	5	5	0	1.24	1.3	0.06	0.71	0.72	0	0	0	0	0	0
5/12/2024 22:25	49803	UNIV_T1	0	0	0	0	0	0	-1.31	-1.32	0	0	0	0	0	0
5/12/2024 22:25	63803	HEMP_T1	89	108	19	0.18	0.22	0.04	0	0	0	0	0	0	0	0
5/12/2024 22:25	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/12/2024 22:25	53502	EVIL_T2	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
5/12/2024 22:26	53501	EVIL_T2	3	5	2	0.63	0.58	-0.05	0	0	0	0	0	0	0	0
5/12/2024 22:26	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 22:26	43301	WATS_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/12/2024 22:26	53502	EVIL_T2	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
5/12/2024 22:27	41902	REED_T1	0	0	0	0	0	0	0.71	0.72	0	0	0	0	0	0
5/12/2024 22:27	45501	DERR_T2	0	0	0	0	0	0	-0.64	-0.51	2	2	0	1800	1800	0
5/12/2024 22:27	43301	WATS_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/12/2024 22:27	46801	HEPB_T2	2	2	0	0.15	0.3	0.15	0.51	0.5	0	0	0	0	0	0
5/12/2024 22:27	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 22:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 22:31	46506	LOHA_T1	1	1	0	0.5	0.6	0.1	-0.46	-0.48	0	0	0	0	0	0
5/12/2024 22:31	46504	LOHA_T1	2	2	0	0.55	1.25	0.7	0	0	0	0	0	0	0	0
5/12/2024 22:49	65205	PRIN_T1	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
5/12/2024 22:49	65203	PRIN_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
5/12/2024 23:52	65206	PRIN_T4	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/12/2024 23:52	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/12/2024 23:52	65207	PRIN_T4	45	149	104	0.19	0.16	-0.03	0	0	0	0	0	0	0	0
5/13/2024 0:03	13901	SEID_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
5/13/2024 7:09	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
5/13/2024 7:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/13/2024 7:20	41902	REED_T1	0	0	0	0	0	0	1.02	0.96	0	0	0	0	0	0
5/13/2024 7:21	67702	WERN_T2	0	0	0	0	0	0	-0.08	-0.05	0	0	0	0	0	0
5/13/2024 7:23	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/13/2024 7:24	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/13/2024 7:32	64802	MONE_T2	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
5/13/2024 7:32	64801	MONE_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
5/13/2024 7:34	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.74	1	1	0	900	900	0
5/13/2024 7:36	67703	WERN_T2	0	0	0	0	0	0	-0.39	-0.36	1	1	0	900	900	0
5/13/2024 7:40	56803	BENV_T1	2	0	-2	0.45	0	-0.45	-0.11	-0.12	1	1	0	600	600	0
5/13/2024 7:40	67703	WERN_T2	0	0	0	0	0	0	-0.36	-0.37	1	1	0	900	900	0
5/13/2024 7:40	56801	BENV_T1	5	1	-4	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
5/13/2024 7:41	61801	EELI_T2	1	1	0	4.4	0.3	-4.1	-0.83	-0.85	1	1	0	600	600	0
5/13/2024 7:48	46801	HEPB_T2	2	2	0	0.95	0.8	-0.15	0.53	0.54	0	0	0	0	0	0
5/13/2024 7:52	44902	SCOT_T2	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
5/13/2024 7:55	61703	ELIZ_T1	0	0	0	0	0	0	-2.45	-2.57	2	2	0	2100	2100	0
5/13/2024 7:55	61701	ELIZ_T1	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
5/13/2024 7:57	61703	ELIZ_T1	0	0	0	0	0	0	-2.45	-2.57	2	2	0	2100	2100	0
5/13/2024 7:57	61701	ELIZ_T1	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
5/13/2024 7:58	61701	ELIZ_T1	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
5/13/2024 7:58	61703	ELIZ_T1	0	0	0	0	0	0	-2.45	-2.57	2	2	0	2100	2100	0
5/13/2024 7:58	61704	ELIZ_T2	5	5	0	0.74	0.92	0.18	0	0	0	0	0	0	0	0
5/13/2024 7:58	61702	ELIZ_T2	0	1	1	0	0	0	-2.28	-0.94	2	1	-1	1500	300	-1200
5/13/2024 7:59	61703	ELIZ_T1	0	0	0	0	0	0	-4.9	-5.15	4	4	0	4200	4200	0
5/13/2024 7:59	61701	ELIZ_T1	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
5/13/2024 8:00	59003	MIFF_T1	0	0	0	0	0	0	-1.12	-0.12	0	0	0	0	0	0
5/13/2024 8:02	40101	HUNT_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
5/13/2024 8:07	67703	WERN_T2	0	0	0	0	0	0	-0.37	-0.37	1	1	0	900	900	0
5/13/2024 8:09	67703	WERN_T2	0	0	0	0	0	0	-0.37	-0.36	1	1	0	900	900	0
5/13/2024 8:09	45601	WOOL_T1	0	0	0	0	0	0	0.61	0.55	0	0	0	0	0	0
5/13/2024 8:09	67702	WERN_T2	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
5/13/2024 8:09	45602	WOOL_T1	3	48	45	1.23	0.25	-0.98	0	0	0	0	0	0	0	0
5/13/2024 8:10	67703	WERN_T2	0	0	0	0	0	0	-0.37	-0.36	1	1	0	900	900	0
5/13/2024 8:17	58402	MORO_T1	0	0	0	0	0	0	-0.98	-1.06	3	3	0	2400	2400	0
5/13/2024 8:19	16201	POFA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 8:21	58001	WCAR_T1	4	4	0	1.25	1.2	-0.05	0	0	0	0	0	0	0	0
5/13/2024 8:21	58003	WCAR_T1	4	2	-2	0.6	1.1	0.5	0	0	2	2	0	1200	1200	0
5/13/2024 8:22	43201	MVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/13/2024 8:22	43202	MVIL_T2	96	100	4	1.12	1.16	0.04	-0.58	-0.58	0	0	0	0	0	0
5/13/2024 8:24	58003	WCAR_T1	4	2	-2	0.6	1.1	0.5	0	0	1	1	0	600	600	0
5/13/2024 8:24	58001	WCAR_T1	4	4	0	1.25	1.2	-0.05	0	0	0	0	0	0	0	0
5/13/2024 8:26	62601	ENGL_T1	0	0	0	0	0	0	-0.28	-0.23	0	0	0	0	0	0
5/13/2024 8:26	62605	ENGL_T1	0	0	0	0	0	0	-1.75	-1.78	0	0	0	0	0	0
5/13/2024 8:30	41801	GOCI_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
5/13/2024 8:36	17002	RIRO_T2	109	71	-38	0.14	0.15	0.01	0.57	0.62	0	0	0	0	0	0
5/13/2024 8:38	44301	BEAV_T2	0	0	0	0	0	0	0.53	0.05	2	2	0	1500	1500	0
5/13/2024 8:38	15701	TANN_T1	1	1	0	4.1	4.7	0.6	0	0	0	0	0	0	0	0
5/13/2024 8:38	15704	TANN_T1	0	0	0	0	0	0	-1.28	-1.3	0	0	0	0	0	0
5/13/2024 8:38	10705	CATA_T2	0	0	0	0	0	0	-1.04	-1.04	1	1	0	900	900	0
5/13/2024 8:41	10702	CATA_T2	0	0	0	0	0	0	-0.06	0.05	0	0	0	0	0	0
5/13/2024 8:42	62602	ENGL_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
5/13/2024 8:42	24001	WIBA_T1	0	0	0	0	0	0	1.08	1.08	0	0	0	0	0	0
5/13/2024 8:42	24004	WIBA_T1	76	82	6	0.16	0.18	0.02	0	0	0	0	0	0	0	0
5/13/2024 8:42	10705	CATA_T2	0	0	0	0	0	0	-1.04	-1.01	1	1	0	900	900	0
5/13/2024 8:43	67703	WERN_T2	0	0	0	0	0	0	-0.35	-0.35	1	1	0	900	900	0
5/13/2024 8:45	12006	HATF_T1	0	0	0	0	0	0	0.29	0.23	1	1	0	1200	1200	0
5/13/2024 8:45	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 8:53	67703	WERN_T2	0	0	0	0	0	0	-0.35	-0.35	1	1	0	900	900	0
5/13/2024 8:57	24501	GOUL_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
5/13/2024 8:57	24502	GOUL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 9:02	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.76	1	1	0	900	900	0
5/13/2024 9:02	55002	NEWP_T1	6	9	3	0.75	0.53	-0.22	-0.25	-0.21	0	0	0	0	0	0
5/13/2024 9:04	55002	NEWP_T1	6	9	3	0.75	0.53	-0.22	-0.25	-0.21	0	0	0	0	0	0
5/13/2024 9:04	64904	MILL_T1	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
5/13/2024 9:05	55002	NEWP_T1	6	9	3	0.75	0.53	-0.22	-0.25	-0.21	0	0	0	0	0	0
5/13/2024 9:06	56501	ROCK_T2	2	2	0	0.45	0.5	0.05	-0.02	-0.02	0	0	0	0	0	0
5/13/2024 9:07	57201	ROSS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 9:07	57203	ROSS_T1	0	0	0	0	0	0	-0.84	-0.81	0	0	0	0	0	0
5/13/2024 9:07	56501	ROCK_T2	2	2	0	0.45	0.5	0.05	-0.02	-0.02	0	0	0	0	0	0
5/13/2024 9:07	55002	NEWP_T1	6	9	3	0.75	0.53	-0.22	-0.25	-0.21	0	0	0	0	0	0
5/13/2024 9:07	57205	ROSS_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
5/13/2024 9:08	56501	ROCK_T2	2	2	0	0.45	0.5	0.05	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 9:11	46001	BERW_T1	0	0	0	0	0	0	1.42	1.56	0	0	0	0	0	0
5/13/2024 9:12	61803	EELI_T2	0	0	0	0	0	0	0.95	0.97	0	0	0	0	0	0
5/13/2024 9:12	61801	EELI_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
5/13/2024 9:15	40101	HUNT_T2	0	1	1	0	0.1	0.1	-0.3	-0.36	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/13/2024 9:18	24004	WIBA_T1	61	69	8	0.13	0.15	0.02	0	0	0	0	0	0	0	0
5/13/2024 9:18	65702	RVIL_T2	0	0	0	0	0	0	-1	-0.98	1	1	0	600	600	0
5/13/2024 9:18	24001	WIBA_T1	0	0	0	0	0	0	1.09	1.08	0	0	0	0	0	0
5/13/2024 9:20	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
5/13/2024 9:20	67603	WARW_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/13/2024 9:20	43201	MVIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/13/2024 9:20	43202	MVIL_T2	92	99	7	1.21	1.06	-0.15	-0.58	-0.62	0	0	0	0	0	0
5/13/2024 9:20	67605	WARW_T1	14	44	30	0.55	0.67	0.12	-1.09	-1.02	0	0	0	0	0	0
5/13/2024 9:21	14404	SSLA_T1	1	2	1	5.9	3.1	-2.8	0	-0.03	0	0	0	0	0	0
5/13/2024 9:21	67804	WLAN_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/13/2024 9:21	13704	SOHN_T2	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
5/13/2024 9:21	67803	WLAN_T1	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
5/13/2024 9:22	65702	RVIL_T2	0	0	0	0	0	0	-1	-0.98	1	1	0	600	600	0
5/13/2024 9:22	67805	WLAN_T1	0	0	0	0	0	0	-1.07	-1.05	0	0	0	0	0	0
5/13/2024 9:22	14404	SSLA_T1	1	2	1	5.9	3.1	-2.8	0	-0.03	0	0	0	0	0	0
5/13/2024 9:22	67804	WLAN_T1	0	3	3	0	0.23	0.23	-1.15	-1.14	0	0	0	0	0	0
5/13/2024 9:23	29402	BELT_T1	1	1	0	8.1	8.6	0.5	0	0	0	0	0	0	0	0
5/13/2024 9:23	67702	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 9:23	67703	WERN_T2	0	0	0	0	0	0	-0.31	-0.29	1	1	0	900	900	0
5/13/2024 9:23	29401	BELT_T1	16	37	21	0.12	0.19	0.07	0	0	0	0	0	0	0	0
5/13/2024 9:23	67804	WLAN_T1	0	3	3	0	0.23	0.23	-1.14	-1.14	0	0	0	0	0	0
5/13/2024 9:25	67603	WARW_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/13/2024 9:25	67804	WLAN_T1	0	3	3	0	0.23	0.23	-1.14	-1.14	0	0	0	0	0	0
5/13/2024 9:25	67605	WARW_T1	14	44	30	0.55	0.67	0.12	-1.02	-1.07	0	0	0	0	0	0
5/13/2024 9:25	67803	WLAN_T1	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
5/13/2024 9:26	67805	WLAN_T1	0	0	0	0	0	0	-1.05	-1.04	0	0	0	0	0	0
5/13/2024 9:26	67804	WLAN_T1	0	3	3	0	0.23	0.23	-1.14	-1.14	0	0	0	0	0	0
5/13/2024 9:30	50201	HARR_T3	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
5/13/2024 9:30	50105	HARR_T3	6	6	0	5.55	6.28	0.73	0	0	0	0	0	0	0	0
5/13/2024 9:30	50103	HARR_T3	2	2	0	0.6	0.1	-0.5	-0.85	-0.81	1	1	0	1200	1200	0
5/13/2024 9:31	53903	HALI_T2	5	7	2	1.04	0.9	-0.14	0	0	0	0	0	0	0	0
5/13/2024 9:31	53902	HALI_T2	1	3	2	5.7	2.47	-3.23	0	0	0	0	0	0	0	0
5/13/2024 9:31	53901	HALI_T2	1	1	0	1	1.4	0.4	-1.52	-1.54	0	0	0	0	0	0
5/13/2024 9:32	56501	ROCK_T2	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/13/2024 9:32	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 9:33	56501	ROCK_T2	2	2	0	0.3	0.6	0.3	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 9:33	55002	NEWP_T1	8	13	5	0.43	0.77	0.34	-0.23	-0.21	0	0	0	0	0	0
5/13/2024 9:33	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 9:33	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.02	1	1	0	600	600	0
5/13/2024 9:33	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 9:34	55002	NEWP_T1	8	13	5	0.43	0.77	0.34	-0.23	-0.21	0	0	0	0	0	0
5/13/2024 9:34	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 9:35	55003	NEWP_T2	12	12	0	0.38	0.72	0.34	-0.15	-0.1	0	0	0	0	0	0
5/13/2024 9:35	57403	SPAN_T1	43	35	-8	0.23	0.3	0.07	0	0	0	0	0	0	0	0
5/13/2024 9:35	52501	PROG_T1	0	2	2	0	0.2	0.2	0.36	0.39	1	1	0	300	300	0
5/13/2024 9:35	57401	SPAN_T1	2	4	2	0.15	0.33	0.18	-1.14	-0.97	1	1	0	600	600	0
5/13/2024 9:36	50701	SMEC_T1	0	3	3	0	0.2	0.2	-0.98	0.36	0	0	0	0	0	0
5/13/2024 9:36	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 9:36	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.02	1	1	0	600	600	0
5/13/2024 9:36	57401	SPAN_T1	2	4	2	0.15	0.33	0.18	-1.14	-0.97	1	1	0	600	600	0
5/13/2024 9:36	67204	TEHI_T2	0	0	0	0	0	0	-0.45	-0.1	0	0	0	0	0	0
5/13/2024 9:36	55002	NEWP_T1	8	13	5	0.43	0.77	0.34	-0.46	-0.42	0	0	0	0	0	0
5/13/2024 9:36	57403	SPAN_T1	43	35	-8	0.23	0.3	0.07	0	0	0	0	0	0	0	0
5/13/2024 9:37	57401	SPAN_T1	2	4	2	0.15	0.33	0.18	-1.14	-0.97	1	1	0	600	600	0
5/13/2024 9:37	57403	SPAN_T1	43	35	-8	0.23	0.3	0.07	-0.01	-0.05	0	0	0	0	0	0
5/13/2024 9:37	50701	SMEC_T1	0	3	3	0	0.2	0.2	-0.98	0.36	0	0	0	0	0	0
5/13/2024 9:38	57403	SPAN_T1	43	35	-8	0.23	0.3	0.07	0	0	0	0	0	0	0	0
5/13/2024 9:38	43302	WATS_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 9:38	57401	SPAN_T1	2	4	2	0.15	0.33	0.18	-0.97	-1.11	1	1	0	600	600	0
5/13/2024 9:38	61103	BERK_T5	0	1	1	0	0.2	0.2	0.08	0.07	0	0	0	0	0	0
5/13/2024 9:38	61102	BERK_T5	0	0	0	0	0	0	1.18	1.24	1	1	0	300	300	0
5/13/2024 9:38	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 9:38	67204	TEHI_T2	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
5/13/2024 9:38	67803	WLAN_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/13/2024 9:38	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 9:38	50701	SMEC_T1	0	3	3	0	0.2	0.2	0.36	0.32	0	0	0	0	0	0
5/13/2024 9:38	67804	WLAN_T1	0	5	5	0	0.42	0.42	-1.14	-1.12	0	0	0	0	0	0
5/13/2024 9:40	44301	BEAV_T2	0	0	0	0	0	0	0.43	0.47	2	2	0	1500	1500	0
5/13/2024 9:40	67803	WLAN_T1	0	3	3	0	0.23	0.23	-0.9	-0.92	0	0	0	0	0	0
5/13/2024 9:40	61103	BERK_T5	0	1	1	0	0.2	0.2	0.08	0.07	0	0	0	0	0	0
5/13/2024 9:40	67804	WLAN_T1	0	5	5	0	0.42	0.42	0	0	0	0	0	0	0	0
5/13/2024 9:41	45501	DERR_T2	0	0	0	0	0	0	0.55	0.56	2	2	0	1800	1800	0
5/13/2024 9:41	26002	WDAM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 9:41	67804	WLAN_T1	0	5	5	0	0.42	0.42	0	0	0	0	0	0	0	0
5/13/2024 9:41	26001	WDAM_T1	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
5/13/2024 9:41	67803	WLAN_T1	0	3	3	0	0.23	0.23	-0.9	-0.92	0	0	0	0	0	0
5/13/2024 9:43	45501	DERR_T2	0	0	0	0	0	0	0.55	0.56	2	2	0	1800	1800	0
5/13/2024 9:45	50502	MECH_T1	1	2	1	2.3	1.35	-0.95	0	0	0	0	0	0	0	0
5/13/2024 9:45	50503	MECH_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/13/2024 9:45	50506	MECH_T1	3	4	1	0.4	0.68	0.28	-0.01	0.76	2	0	-2	1800	0	-1800
5/13/2024 9:45	40101	HUNT_T2	0	1	1	0	0.3	0.3	-0.3	-0.31	0	0	0	0	0	0
5/13/2024 9:45	50504	MECH_T1	10	7	-3	0.14	0.23	0.09	0	0	0	0	0	0	0	0
5/13/2024 9:45	50505	MECH_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
5/13/2024 9:45	50501	MECH_T1	4	5	1	1.55	1.4	-0.15	0	0	0	0	0	0	0	0
5/13/2024 9:47	40101	HUNT_T2	0	1	1	0	0.3	0.3	-0.3	-0.31	0	0	0	0	0	0
5/13/2024 9:48	50503	MECH_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/13/2024 9:48	50506	MECH_T1	3	4	1	0.4	0.68	0.28	-0.01	0.38	1	0	-1	900	0	-900
5/13/2024 9:48	50501	MECH_T1	4	5	1	1.55	1.4	-0.15	0.24	0.24	0	0	0	0	0	0
5/13/2024 9:48	55002	NEWP_T1	9	11	2	0.73	0.78	0.05	-0.21	-0.19	0	0	0	0	0	0
5/13/2024 9:48	50502	MECH_T1	1	2	1	2.3	1.35	-0.95	0	0	0	0	0	0	0	0
5/13/2024 9:48	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 9:48	50505	MECH_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
5/13/2024 9:48	50504	MECH_T1	10	7	-3	0.14	0.23	0.09	0	0	0	0	0	0	0	0
5/13/2024 9:49	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 9:49	65503	MOJO_T2	4	14	10	0.23	0.42	0.19	-0.97	-0.97	1	1	0	900	900	0
5/13/2024 9:49	64101	REFR_T1	0	1	1	0	0.5	0.5	-0.16	-0.15	0	0	0	0	0	0
5/13/2024 9:49	65502	MOJO_T2	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
5/13/2024 9:49	16203	POFA_T2	2	4	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/13/2024 9:49	55002	NEWP_T1	9	11	2	0.73	0.78	0.05	-0.21	-0.19	0	0	0	0	0	0
5/13/2024 9:49	16201	POFA_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/13/2024 9:50	16203	POFA_T2	2	4	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/13/2024 9:50	64101	REFR_T1	0	1	1	0	0.5	0.5	-0.16	-0.15	0	0	0	0	0	0
5/13/2024 9:50	50503	MECH_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/13/2024 9:50	50502	MECH_T1	1	2	1	2.3	1.35	-0.95	0	0	0	0	0	0	0	0
5/13/2024 9:50	50505	MECH_T1	1	1	0	0.1	0.7	0.6	-0.91	-0.89	0	0	0	0	0	0
5/13/2024 9:50	16201	POFA_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/13/2024 9:50	50506	MECH_T1	3	4	1	0.4	0.68	0.28	-0.01	0.38	1	0	-1	900	0	-900
5/13/2024 9:50	50504	MECH_T1	10	7	-3	0.14	0.23	0.09	0	0	0	0	0	0	0	0
5/13/2024 9:50	57303	MOAL_T2	1	1	0	6.8	7.2	0.4	0	0	0	0	0	0	0	0
5/13/2024 9:50	57301	MOAL_T2	0	0	0	0	0	0	0.28	0.4	0	0	0	0	0	0
5/13/2024 9:50	57304	MOAL_T2	18	14	-4	0.21	0.24	0.03	0	0	0	0	0	0	0	0
5/13/2024 9:50	50501	MECH_T1	4	5	1	1.55	1.4	-0.15	0	0	0	0	0	0	0	0
5/13/2024 9:52	64101	REFR_T1	0	1	1	0	0.5	0.5	-0.16	-0.15	0	0	0	0	0	0
5/13/2024 9:53	61103	BERK_T5	0	1	1	0	0.2	0.2	0.07	0.07	0	0	0	0	0	0
5/13/2024 9:53	60701	BREC_T1	0	0	0	0	0	0	-0.3	0.48	2	2	0	1200	1200	0
5/13/2024 9:53	64101	REFR_T1	0	1	1	0	0.5	0.5	-0.15	-0.12	0	0	0	0	0	0
5/13/2024 9:53	61101	BERK_T5	0	0	0	0	0	0	-0.84	-0.8	0	0	0	0	0	0
5/13/2024 9:54	60701	BREC_T1	0	0	0	0	0	0	-0.61	0.97	4	2	-2	2400	1200	-1200
5/13/2024 9:55	13704	SOHN_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
5/13/2024 9:55	60701	BREC_T1	0	0	0	0	0	0	-0.3	0.48	2	1	-1	1200	600	-600
5/13/2024 9:56	61103	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 9:56	61101	BERK_T5	0	0	0	0	0	0	-0.84	-0.8	0	0	0	0	0	0
5/13/2024 9:57	60701	BREC_T1	0	0	0	0	0	0	-0.3	0.48	2	1	-1	1200	600	-600
5/13/2024 9:58	24101	EHAZ_T1	0	13	13	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 9:58	61103	BERK_T5	0	1	1	0	0.2	0.2	0.07	0.07	0	0	0	0	0	0
5/13/2024 9:58	24103	EHAZ_T1	0	0	0	0	0	0	-0.44	-0.4	0	0	0	0	0	0
5/13/2024 9:58	24105	EHAZ_T1	4	4	0	5.98	6.1	0.12	0	0	0	0	0	0	0	0
5/13/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	-0.87	-0.91	0	0	0	0	0	0
5/13/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	0.42	-0.24	0	1	1	0	600	600
5/13/2024 10:00	57106	SPHI_T2	3	4	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
5/13/2024 10:00	40702	FFLD_T1	6	2	-4	0.2	0.2	0	0	0	0	0	0	0	0	0
5/13/2024 10:00	17101	WTRE_T2	335	217	-118	0.25	0.16	-0.09	0	0	0	0	0	0	0	0
5/13/2024 10:00	51702	OBER_T1	2	2	0	2.85	2.6	-0.25	-0.45	-0.42	0	0	0	0	0	0
5/13/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0	0.01	1	1	0	600	600	0
5/13/2024 10:00	63401	HONY_T1	0	0	0	0	0	0	1.13	1.07	0	0	0	0	0	0
5/13/2024 10:00	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/13/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	1.14	1.1	0	0	0	0	0	0
5/13/2024 10:00	64802	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 10:00	62607	ENGL_T1	1	1	0	0.1	0.3	0.2	-0.85	-0.84	0	0	0	0	0	0
5/13/2024 10:00	67703	WERN_T2	0	1	1	0	0.1	0.1	-0.27	-0.29	1	1	0	900	900	0
5/13/2024 10:00	56803	BENV_T1	4	5	1	0.55	0.56	0.01	-0.1	-0.1	0	0	0	0	0	0
5/13/2024 10:00	11901	ETEX_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
5/13/2024 10:00	11101	EGYP_T1	0	0	0	0	0	0	3.34	2.98	0	0	0	0	0	0
5/13/2024 10:00	63306	GREE_T1	0	0	0	0	0	0	-1.14	-1.14	0	0	0	0	0	0
5/13/2024 10:00	40603	PIGR_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
5/13/2024 10:00	12802	MICK_T1	0	0	0	0	0	0	-1.22	-1.17	0	0	0	0	0	0
5/13/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	1	0.95	0	0	0	0	0	0
5/13/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.04	1.03	0	0	0	0	0	0
5/13/2024 10:00	57505	LAWN_T3	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
5/13/2024 10:00	24701	FLND_T2	0	1	1	0	0	0	0.32	0.32	0	0	0	0	0	0
5/13/2024 10:00	64902	MILL_T2	1	0	-1	0.1	0	-0.1	-0.72	-0.67	1	1	0	900	900	0
5/13/2024 10:00	63803	HEMP_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
5/13/2024 10:00	44201	POIN_T1	1	0	-1	0.1	0	-0.1	-1.98	-1.72	2	2	0	2100	2100	0
5/13/2024 10:00	63302	GREE_T1	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
5/13/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-1.42	-1.35	2	2	0	1800	1800	0
5/13/2024 10:00	47002	HUGH_T2	0	0	0	0	0	0	-0.53	-0.6	0	0	0	0	0	0
5/13/2024 10:00	44504	HAMI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/13/2024 10:00	60103	COCA_T2	0	0	0	0	0	0	-1.71	-1.66	3	3	0	3300	3300	0
5/13/2024 10:00	40101	HUNT_T2	1	1	0	0.5	0	-0.5	-0.31	-0.32	0	0	0	0	0	0
5/13/2024 10:00	43302	WATS_T2	4	4	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/13/2024 10:00	64101	REFR_T1	1	1	0	0.5	0.5	0	-0.15	-0.12	0	0	0	0	0	0
5/13/2024 10:00	65003	NEFF_T2	108	9	-99	0.2	0.43	0.23	0	0	0	0	0	0	0	0
5/13/2024 10:00	65604	QVIL_T2	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/13/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-0.59	-0.54	1	1	0	900	900	0
5/13/2024 10:00	29402	BELT_T1	1	1	0	8.5	8.5	0	0	0	0	0	0	0	0	0
5/13/2024 10:00	24101	EHAZ_T1	13	1	-12	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
5/13/2024 10:00	10805	CHHI_T2	7	8	1	1.99	9.1	7.11	-0.48	-0.33	1	1	0	600	600	0
5/13/2024 10:00	46001	BERW_T1	0	3	3	0	0	0	0.87	0.83	0	0	0	0	0	0
5/13/2024 10:00	40703	FFLD_T1	4	2	-2	0.3	0.15	-0.15	0.29	0.32	0	0	0	0	0	0
5/13/2024 10:00	60701	BREC_T1	0	0	0	0	0	0	-0.3	0.48	2	1	-1	1200	600	-600
5/13/2024 10:00	46203	DANV_T2	1	2	1	0.2	0.3	0.1	0.57	0.62	0	0	0	0	0	0
5/13/2024 10:00	53802	MBRG_T2	0	0	0	0	0	0	1.54	1.56	0	0	0	0	0	0
5/13/2024 10:00	58101	NEKI_T1	2	3	1	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
5/13/2024 10:00	24902	WHHA_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
5/13/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
5/13/2024 10:00	24105	EHAZ_T1	4	4	0	6.1	6.08	-0.02	-0.67	-0.65	0	0	0	0	0	0
5/13/2024 10:00	64304	LINC_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.38	-0.32	0	0	0	0	0	0
5/13/2024 10:00	58001	WCAR_T1	14	10	-4	0.71	0.92	0.21	0.76	0.71	0	0	0	0	0	0
5/13/2024 10:00	59002	MIFF_T1	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/13/2024 10:00	46005	BERW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/13/2024 10:00	40201	BEGA_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
5/13/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	0.09	0.24	0	0	0	0	0	0
5/13/2024 10:00	12807	MICK_T1	1	1	0	0.3	0.4	0.1	0.19	0.19	0	0	0	0	0	0
5/13/2024 10:00	54603	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 10:00	54502	ENOL_T2	4	4	0	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
5/13/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
5/13/2024 10:00	63304	GREE_T1	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
5/13/2024 10:00	66202	SISP_T2	0	0	0	0	0	0	-0.36	-0.42	0	0	0	0	0	0
5/13/2024 10:00	40701	FFLD_T1	34	33	-1	0.55	0.36	-0.19	0	0	0	0	0	0	0	0
5/13/2024 10:00	56801	BENV_T1	29	11	-18	0.88	0.68	-0.2	0	0	0	0	0	0	0	0
5/13/2024 10:00	67001	STHI_T2	544	327	-217	0.26	0.16	-0.1	0	0	0	0	0	0	0	0
5/13/2024 10:00	65002	NEFF_T2	3	1	-2	0.37	1.4	1.03	0	0	0	0	0	0	0	0
5/13/2024 10:00	62605	ENGL_T1	2	3	1	0.2	0.3	0.1	-0.82	-0.8	0	0	0	0	0	0
5/13/2024 10:00	59102	WALK_T2	1	1	0	0.4	0.3	-0.1	-0.15	-0.19	1	1	0	600	600	0
5/13/2024 10:00	57103	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 10:00	12604	MACA_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
5/13/2024 10:00	12505	MITR_T2	1	0	-1	2.2	0	-2.2	0.62	0.88	0	0	0	0	0	0
5/13/2024 10:00	57506	LAWN_T3	0	0	0	0	0	0	0.51	0.59	1	1	0	600	600	0
5/13/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	-0.23	-0.17	0	0	0	0	0	0
5/13/2024 10:00	65005	NEFF_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
5/13/2024 10:00	57101	SPHI_T2	6	6	0	1.43	1.32	-0.11	0	0	0	0	0	0	0	0
5/13/2024 10:00	15103	UPHA_T2	0	1	1	0	0	0	0.36	0.38	0	0	0	0	0	0
5/13/2024 10:00	42902	MIDD_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
5/13/2024 10:00	54505	ENOL_T2	1	3	2	1.3	0.6	-0.7	0	0	0	0	0	0	0	0
5/13/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	-0.7	-0.9	2	2	0	1200	1200	0
5/13/2024 10:00	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 10:00	67702	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 10:00	57104	SPHI_T2	1	1	0	0.3	0.6	0.3	0.55	0.51	0	0	0	0	0	0
5/13/2024 10:00	62602	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 10:00	58003	WCAR_T1	72	57	-15	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
5/13/2024 10:00	64801	MONE_T2	1	3	2	0.7	0.43	-0.27	0.27	0.26	0	0	0	0	0	0
5/13/2024 10:00	63804	HEMP_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
5/13/2024 10:00	17001	RIRO_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
5/13/2024 10:00	15404	WALL_T1	0	0	0	0	0	0	-1.65	-1.66	0	0	0	0	0	0
5/13/2024 10:00	21901	HUMB_T1	0	0	0	0	0	0	-0.95	-0.92	0	0	0	0	0	0
5/13/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	-0.43	-0.38	0	0	0	0	0	0
5/13/2024 10:00	67502	WEWI_T2	2	5	3	0.6	0.66	0.06	0	0	0	0	0	0	0	0
5/13/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.01	0	1	1	0	1200	1200	0
5/13/2024 10:00	42903	MIDD_T2	0	0	0	0	0	0	0.24	0.25	1	1	0	1200	1200	0
5/13/2024 10:00	58803	COCO_T1	1	1	0	2.6	2.3	-0.3	0	0	0	0	0	0	0	0
5/13/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-0.73	-0.97	1	1	0	600	600	0
5/13/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.28	-0.32	0	0	0	0	0	0
5/13/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.02	0.01	0	0	0	0	0	0
5/13/2024 10:00	54001	SOLE_T1	3	3	0	0.67	0.5	-0.17	0	0	0	0	0	0	0	0
5/13/2024 10:00	60801	BUCK_T1	0	1	1	0	0.2	0.2	-0.03	-0.04	0	0	0	0	0	0
5/13/2024 10:00	59001	MIFF_T1	2	1	-1	0.65	0.8	0.15	0	0	0	0	0	0	0	0
5/13/2024 10:00	22102	EDEL_T1	0	0	0	0	0	0	-0.38	-0.24	1	1	0	1200	1200	0
5/13/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
5/13/2024 10:00	17002	RIRO_T2	12	16	4	0.21	0.18	-0.03	0.55	0.64	0	0	0	0	0	0
5/13/2024 10:00	53903	HALI_T2	6	10	4	0.9	0.89	-0.01	-0.14	-0.13	0	0	0	0	0	0
5/13/2024 10:00	59202	THOM_T1	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
5/13/2024 10:00	29401	BELT_T1	26	16	-10	0.14	0.1	-0.04	0	0	3	3	0	2700	2700	0
5/13/2024 10:00	54504	ENOL_T2	1	1	0	0.2	1.5	1.3	0	0	0	0	0	0	0	0
5/13/2024 10:00	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 10:00	57203	ROSS_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
5/13/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-0.08	-0.16	4	4	0	3000	3000	0
5/13/2024 10:00	40601	PIGR_T1	13	18	5	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
5/13/2024 10:00	57205	ROSS_T1	2	3	1	0.95	0.77	-0.18	0	0	0	0	0	0	0	0
5/13/2024 10:00	13502	MCMI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 10:00	12502	MITR_T2	1	1	0	7.4	6.2	-1.2	0	0	0	0	0	0	0	0
5/13/2024 10:00	24901	WHHA_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/13/2024 10:00	45602	WOOL_T1	2	2	0	0.45	0.2	-0.25	0.48	0.45	0	0	0	0	0	0
5/13/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	-0.96	-0.95	0	1	1	0	600	600
5/13/2024 10:00	53901	HALI_T2	1	2	1	1.4	0.65	-0.75	-1.54	-1.59	0	0	0	0	0	0
5/13/2024 10:00	60504	NMAN_T2	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
5/13/2024 10:00	54501	ENOL_T2	4	4	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
5/13/2024 10:00	63801	HEMP_T1	1	4	3	0.1	0.43	0.33	0.51	-0.23	0	1	1	0	900	900
5/13/2024 10:00	54602	SUMM_T2	0	0	0	0	0	0	0	-1.16	1	1	0	600	600	0
5/13/2024 10:00	44505	HAMI_T2	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
5/13/2024 10:00	43301	WATS_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/13/2024 10:00	58102	NEKI_T1	3	3	0	0.43	0.47	0.04	0.29	0.32	0	0	0	0	0	0
5/13/2024 10:00	44502	HAMI_T2	2	2	0	1.1	1.1	0	-0.86	-0.96	0	0	0	0	0	0
5/13/2024 10:00	40505	CRES_T1	3	3	0	5.1	5.17	0.07	0.44	0.32	0	0	0	0	0	0
5/13/2024 10:00	27502	WEIS_T2	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
5/13/2024 10:00	65001	NEFF_T2	64	3	-61	0.13	0.17	0.04	-0.41	-0.41	1	1	0	1200	1200	0
5/13/2024 10:00	45501	DERR_T2	0	1	1	0	0.6	0.6	0.56	0.67	2	2	0	1800	1800	0
5/13/2024 10:00	15104	UPHA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 10:00	60501	NMAN_T2	3	3	0	4.87	5.13	0.26	0	0	0	0	0	0	0	0
5/13/2024 10:00	65004	NEFF_T2	19	3	-16	0.16	0.43	0.27	0	0	0	0	0	0	0	0
5/13/2024 10:00	53902	HALI_T2	3	3	0	2.43	2.57	0.14	0	0	0	0	0	0	0	0
5/13/2024 10:00	46506	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 10:00	13501	MCMI_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
5/13/2024 10:00	56601	HAMP_T1	0	0	0	0	0	0	-0.63	-0.53	0	0	0	0	0	0
5/13/2024 10:00	24702	FLND_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/13/2024 10:00	67002	STHI_T2	235	64	-171	0.18	0.19	0.01	0.71	0.68	0	0	0	0	0	0
5/13/2024 10:00	53501	EVIL_T2	2	2	0	0.45	0.45	0	1.07	0.76	2	2	0	1200	1200	0
5/13/2024 10:00	42701	AUGU_T1	1	3	2	0.8	0.5	-0.3	0	0	2	2	0	1800	1800	0
5/13/2024 10:00	54601	SUMM_T2	6	10	4	0.25	0.53	0.28	-1.83	-1.83	2	2	0	2100	2100	0
5/13/2024 10:00	59201	THOM_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/13/2024 10:00	61302	EARL_T1	0	0	0	0	0	0	0.82	0.87	2	2	0	1800	1800	0
5/13/2024 10:00	46501	LOHA_T1	0	0	0	0	0	0	-0.24	-0.18	1	1	0	1200	1200	0
5/13/2024 10:01	12502	MITR_T2	1	1	0	7.4	6.2	-1.2	0	0	0	0	0	0	0	0
5/13/2024 10:01	12505	MITR_T2	1	0	-1	2.2	0	-2.2	0.62	0.88	0	0	0	0	0	0
5/13/2024 10:04	57205	ROSS_T1	2	3	1	0.95	0.77	-0.18	0.15	0.16	0	0	0	0	0	0
5/13/2024 10:05	59301	MCAL_T1	3	1	-2	0.27	0.4	0.13	-1.57	-1.52	1	1	0	600	600	0
5/13/2024 10:06	52002	LING_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/13/2024 10:06	40101	HUNT_T2	1	1	0	0.5	0	-0.5	-0.31	-0.32	0	0	0	0	0	0
5/13/2024 10:06	52004	LING_T2	3	4	1	0.23	0.53	0.3	0.35	0.35	0	0	0	0	0	0
5/13/2024 10:06	52006	LING_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/13/2024 10:06	59102	WALK_T2	1	1	0	0.4	0.3	-0.1	-0.15	-0.19	1	1	0	600	600	0
5/13/2024 10:06	60801	BUCK_T1	0	1	1	0	0.2	0.2	-0.02	-0.02	0	0	0	0	0	0
5/13/2024 10:06	56501	ROCK_T2	2	3	1	0.5	0.43	-0.07	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 10:06	65702	RVIL_T2	0	2	2	0	0.2	0.2	-0.95	-0.96	1	1	0	600	600	0
5/13/2024 10:06	64101	REFR_T1	1	1	0	0.5	0.5	0	-0.15	-0.12	0	0	0	0	0	0
5/13/2024 10:07	25602	ARRO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 10:07	25603	ARRO_T1	0	0	0	0	0	0	-0.21	-0.17	0	0	0	0	0	0
5/13/2024 10:07	40101	HUNT_T2	1	1	0	0.5	0	-0.5	-0.31	-0.32	0	0	0	0	0	0
5/13/2024 10:07	51006	NHAR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 10:07	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 10:07	13101	NHAM_T1	0	0	0	0	0	0	-1.89	-1.9	2	2	0	2100	2100	0
5/13/2024 10:07	40502	CRES_T2	12	8	-4	0.18	0.16	-0.02	0.07	0	0	0	0	0	0	0
5/13/2024 10:07	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/13/2024 10:07	67702	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 10:07	51002	NHAR_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
5/13/2024 10:07	67703	WERN_T2	0	1	1	0	0.1	0.1	-0.27	-0.29	1	1	0	900	900	0
5/13/2024 10:07	64101	REFR_T1	1	1	0	0.5	0.5	0	-0.15	-0.12	0	0	0	0	0	0
5/13/2024 10:07	52503	PROG_T2	0	0	0	0	0	0	-0.69	-0.65	1	1	0	900	900	0
5/13/2024 10:07	67605	WARW_T1	31	17	-14	0.55	0.55	0	0	0	0	0	0	0	0	0
5/13/2024 10:07	51004	NHAR_T1	14	13	-1	1.29	1.02	-0.27	0	0	0	0	0	0	0	0
5/13/2024 10:07	52502	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 10:07	22405	MORG_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
5/13/2024 10:07	51401	LYKE_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
5/13/2024 10:08	43101	SMIL_T2	2	1	-1	0.8	1.7	0.9	0	0	0	0	0	0	0	0
5/13/2024 10:08	14601	SWHI_T1	0	0	0	0	0	0	-0.4	-0.36	0	0	0	0	0	0
5/13/2024 10:08	43103	SMIL_T2	20	26	6	1.07	0.93	-0.14	0	0	0	0	0	0	0	0
5/13/2024 10:08	67703	WERN_T2	0	1	1	0	0.1	0.1	-0.59	-0.57	2	2	0	1800	1800	0
5/13/2024 10:08	16102	BING_T2	0	0	0	0	0	0	0.06	-0.01	0	0	0	0	0	0
5/13/2024 10:08	67702	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 10:08	43105	SMIL_T2	9	7	-2	0.31	0.34	0.03	0	0	0	0	0	0	0	0
5/13/2024 10:08	16605	PONO_T1	0	0	0	0	0	0	-0.49	-0.53	1	1	0	1200	1200	0
5/13/2024 10:08	58003	WCAR_T1	72	57	-15	0.37	0.33	-0.04	0.81	0.79	0	0	0	0	0	0
5/13/2024 10:08	64101	REFR_T1	1	1	0	0.5	0.5	0	-0.24	-0.26	0	0	0	0	0	0
5/13/2024 10:08	43102	SMIL_T2	6	6	0	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
5/13/2024 10:08	48302	ORWI_T2	2	2	0	0.35	0.6	0.25	-0.03	-0.02	0	0	0	0	0	0
5/13/2024 10:08	58001	WCAR_T1	14	10	-4	0.71	0.92	0.21	0	0	0	0	0	0	0	0
5/13/2024 10:08	53501	EVIL_T2	2	2	0	0.45	0.45	0	0.38	0.46	1	1	0	600	600	0
5/13/2024 10:08	40101	HUNT_T2	1	1	0	0.5	0	-0.5	-0.32	-0.29	0	0	0	0	0	0
5/13/2024 10:08	43104	SMIL_T2	1	3	2	0.4	0.4	0	-0.8	-0.8	1	1	0	300	300	0
5/13/2024 10:08	10801	CHHI_T1	0	0	0	0	0	0	-0.63	-0.76	1	1	0	900	900	0
5/13/2024 10:08	52001	LING_T1	1	0	-1	0.2	0	-0.2	0.2	0.22	0	0	0	0	0	0
5/13/2024 10:08	50701	SMEC_T1	2	6	4	0.2	0.7	0.5	0.27	0.28	0	0	0	0	0	0
5/13/2024 10:08	14404	SSLA_T1	1	2	1	6	3.05	-2.95	0	-0.01	0	0	0	0	0	0
5/13/2024 10:09	43302	WATS_T2	4	4	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/13/2024 10:09	67501	WEWI_T1	2	4	2	0.4	0.63	0.23	0	0	0	0	0	0	0	0
5/13/2024 10:09	67702	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/13/2024 10:09	43301	WATS_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/13/2024 10:09	46004	BERW_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
5/13/2024 10:09	14404	SSLA_T1	1	2	1	6	3.05	-2.95	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 10:09	67504	WEWI_T1	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
5/13/2024 10:09	45602	WOOL_T1	2	2	0	0.45	0.2	-0.25	0.45	0.44	0	0	0	0	0	0
5/13/2024 10:09	67703	WERN_T2	0	1	1	0	0.1	0.1	-0.29	-0.28	1	1	0	900	900	0
5/13/2024 10:09	67505	WEWI_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
5/13/2024 10:09	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 10:10	29402	BELT_T1	1	1	0	8.5	8.5	0	0	0	0	0	0	0	0	0
5/13/2024 10:10	67703	WERN_T2	0	1	1	0	0.1	0.1	-0.29	-0.28	1	1	0	900	900	0
5/13/2024 10:10	29401	BELT_T1	26	16	-10	0.14	0.1	-0.04	0	0	1	1	0	900	900	0
5/13/2024 10:10	45502	DERR_T2	0	0	0	0	0	0	0.6	0.54	0	0	0	0	0	0
5/13/2024 10:10	67702	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 10:10	67605	WARW_T1	31	17	-14	0.55	0.55	0	-1.05	-1.1	0	0	0	0	0	0
5/13/2024 10:10	45501	DERR_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/13/2024 10:10	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/13/2024 10:11	67605	WARW_T1	31	17	-14	0.55	0.55	0	-1.05	-1.1	0	0	0	0	0	0
5/13/2024 10:11	42501	ALTA_T2	0	0	0	0	0	0	0.15	0.14	1	1	0	600	600	0
5/13/2024 10:11	62605	ENGL_T1	2	3	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/13/2024 10:11	62607	ENGL_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/13/2024 10:11	62602	ENGL_T1	0	1	1	0	0.2	0.2	0.05	0.07	0	0	0	0	0	0
5/13/2024 10:11	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/13/2024 10:12	45902	AUBU_T1	0	0	0	0	0	0	-0.45	-0.44	1	1	0	600	600	0
5/13/2024 10:13	46802	HEPB_T1	3	1	-2	0.6	1.3	0.7	-0.28	-0.29	0	0	0	0	0	0
5/13/2024 10:14	62605	ENGL_T1	2	3	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/13/2024 10:14	62607	ENGL_T1	1	1	0	0.1	0.3	0.2	-1.68	-1.67	0	0	0	0	0	0
5/13/2024 10:14	62602	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 10:15	64702	LITI_T2	0	0	0	0	0	0	-1.14	-1	0	0	0	0	0	0
5/13/2024 10:15	11405	FARM_T1	0	1	1	0	0.1	0.1	-1.07	-1.11	1	1	0	1200	1200	0
5/13/2024 10:15	65502	MOJO_T2	0	0	0	0	0	0	-0.11	-0.18	1	1	0	900	900	0
5/13/2024 10:15	61803	EELI_T2	0	0	0	0	0	0	0.95	0.95	0	0	0	0	0	0
5/13/2024 10:15	42902	MIDD_T2	1	2	1	0.5	0.4	-0.1	-0.67	-0.63	1	1	0	600	600	0
5/13/2024 10:15	65503	MOJO_T2	2	4	2	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
5/13/2024 10:15	41801	GOCI_T2	55	125	70	0.28	0.31	0.03	0	0	0	0	0	0	0	0
5/13/2024 10:16	55002	NEWP_T1	9	11	2	0.52	0.54	0.02	-0.18	-0.21	0	0	0	0	0	0
5/13/2024 10:18	42902	MIDD_T2	1	2	1	0.5	0.4	-0.1	-1.33	-1.26	2	2	0	1200	1200	0
5/13/2024 10:18	55002	NEWP_T1	9	11	2	0.52	0.54	0.02	-0.36	-0.42	0	0	0	0	0	0
5/13/2024 10:19	61506	EPET_T2	0	0	0	0	0	0	-0.9	-0.92	1	1	0	900	900	0
5/13/2024 10:19	65503	MOJO_T2	2	4	2	0.45	0.3	-0.15	-1.01	-0.98	1	1	0	900	900	0
5/13/2024 10:19	61501	EPET_T2	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
5/13/2024 10:20	16203	POFA_T2	3	7	4	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
5/13/2024 10:20	55002	NEWP_T1	9	11	2	0.52	0.54	0.02	-0.18	-0.21	0	0	0	0	0	0
5/13/2024 10:20	65503	MOJO_T2	2	4	2	0.45	0.3	-0.15	-2.02	-1.95	2	2	0	1800	1800	0
5/13/2024 10:20	16201	POFA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/13/2024 10:21	41901	REED_T1	0	0	0	0	0	0	-1.26	-1.15	1	1	0	900	900	0
5/13/2024 10:21	49803	UNIV_T1	0	2	2	0	0.3	0.3	-1.12	-1.14	0	0	0	0	0	0
5/13/2024 10:21	16201	POFA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/13/2024 10:21	16203	POFA_T2	3	7	4	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
5/13/2024 10:21	66502	SMAN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
5/13/2024 10:21	66504	SMAN_T2	0	1	1	0	0.3	0.3	-0.74	-0.48	0	0	0	0	0	0
5/13/2024 10:23	64101	REPR_T1	1	1	0	0.3	0.6	0.3	-0.13	-0.13	0	0	0	0	0	0
5/13/2024 10:23	16301	ALPA_T1	1	1	0	0.2	0.2	0	-0.36	-0.41	0	0	0	0	0	0
5/13/2024 10:24	49803	UNIV_T1	0	2	2	0	0.3	0.3	-1.14	-1.12	0	0	0	0	0	0
5/13/2024 10:25	62602	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 10:25	62605	ENGL_T1	3	3	0	0.17	0.37	0.2	0	0	0	0	0	0	0	0
5/13/2024 10:25	62607	ENGL_T1	1	1	0	0.3	0.3	0	-0.84	-0.83	0	0	0	0	0	0
5/13/2024 10:27	55105	WERT_T1	1	1	0	0.1	0.1	0	-0.54	-0.54	1	1	0	900	900	0
5/13/2024 10:28	50103	HARR_T3	2	2	0	0.15	0.15	0	-0.89	-0.87	1	1	0	1200	1200	0
5/13/2024 10:28	63803	HEMP_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 10:28	63804	HEMP_T1	1	2	1	6.3	3.1	-3.2	0	0	0	0	0	0	0	0
5/13/2024 10:28	50201	HARR_T3	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/13/2024 10:28	50105	HARR_T3	6	6	0	6.48	6.52	0.04	0	0	0	0	0	0	0	0
5/13/2024 10:28	63801	HEMP_T1	1	8	7	0.4	0.41	0.01	-0.78	-0.45	1	1	0	900	900	0
5/13/2024 10:30	50503	MECH_T1	2	3	1	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
5/13/2024 10:30	50501	MECH_T1	5	5	0	1.14	1.18	0.04	0	0	0	0	0	0	0	0
5/13/2024 10:30	50505	MECH_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/13/2024 10:30	50502	MECH_T1	2	2	0	1.25	1.3	0.05	0	0	0	0	0	0	0	0
5/13/2024 10:30	50506	MECH_T1	5	5	0	0.58	0.6	0.02	0.41	0.38	0	0	0	0	0	0
5/13/2024 10:30	50504	MECH_T1	3	5	2	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
5/13/2024 10:32	50505	MECH_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/13/2024 10:32	50506	MECH_T1	5	5	0	0.58	0.6	0.02	1.22	1.14	0	0	0	0	0	0
5/13/2024 10:32	57302	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 10:32	57303	MOAL_T2	1	1	0	7.5	7.6	0.1	0	0	0	0	0	0	0	0
5/13/2024 10:32	50504	MECH_T1	3	5	2	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
5/13/2024 10:32	50503	MECH_T1	2	3	1	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
5/13/2024 10:32	50502	MECH_T1	2	2	0	1.25	1.3	0.05	0	0	0	0	0	0	0	0
5/13/2024 10:32	57304	MOAL_T2	14	21	7	0.25	0.21	-0.04	-0.63	-0.64	0	0	0	0	0	0
5/13/2024 10:32	50501	MECH_T1	5	5	0	1.14	1.18	0.04	0	0	0	0	0	0	0	0
5/13/2024 10:34	43202	MVIL_T2	160	171	11	0.77	0.68	-0.09	-0.58	-0.57	0	0	0	0	0	0
5/13/2024 10:34	43201	MVIL_T2	1	5	4	0.7	0.26	-0.44	0	0	0	0	0	0	0	0
5/13/2024 10:35	67702	WERN_T2	1	3	2	0.2	0.4	0.2	-0.05	-0.05	0	0	0	0	0	0
5/13/2024 10:35	67703	WERN_T2	1	3	2	0.1	0.43	0.33	0	0	0	0	0	0	0	0
5/13/2024 10:35	50502	MECH_T1	2	2	0	1.25	1.3	0.05	0	0	0	0	0	0	0	0
5/13/2024 10:35	50504	MECH_T1	3	5	2	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
5/13/2024 10:35	50503	MECH_T1	2	3	1	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
5/13/2024 10:35	50506	MECH_T1	5	5	0	0.58	0.6	0.02	0.41	0.38	0	0	0	0	0	0
5/13/2024 10:35	50505	MECH_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/13/2024 10:35	50501	MECH_T1	5	5	0	1.14	1.18	0.04	0.21	0	0	0	0	0	0	0
5/13/2024 10:36	46301	ROHR_T1	283	287	4	0.45	0.42	-0.03	0	0	0	0	0	0	0	0
5/13/2024 10:36	56504	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/13/2024 10:36	56501	ROCK_T2	3	2	-1	0.43	0.4	-0.03	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 10:36	46302	ROHR_T1	44	43	-1	0.45	0.5	0.05	0.17	0.19	0	0	0	0	0	0
5/13/2024 10:37	40603	PIGR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/13/2024 10:37	43202	MVIL_T2	160	171	11	0.77	0.68	-0.09	0	0	0	0	0	0	0	0
5/13/2024 10:37	56504	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/13/2024 10:37	56501	ROCK_T2	3	2	-1	0.43	0.4	-0.03	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 10:37	40601	PIGR_T1	13	20	7	0.24	0.26	0.02	0	0	0	0	0	0	0	0
5/13/2024 10:37	43201	MVIL_T2	1	5	4	0.7	0.26	-0.44	-0.4	-0.37	0	0	0	0	0	0
5/13/2024 10:37	40602	PIGR_T1	0	2	2	0	0.3	0.3	-0.61	-0.59	1	1	0	600	600	0
5/13/2024 10:38	43201	MVIL_T2	1	5	4	0.7	0.26	-0.44	0	0	0	0	0	0	0	0
5/13/2024 10:38	67703	WERN_T2	1	3	2	0.1	0.43	0.33	-0.27	-0.28	1	1	0	900	900	0
5/13/2024 10:38	45602	WOOL_T1	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
5/13/2024 10:38	43202	MVIL_T2	160	171	11	0.77	0.68	-0.09	-0.58	-0.57	0	0	0	0	0	0
5/13/2024 10:38	26001	WDAM_T1	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
5/13/2024 10:38	26002	WDAM_T1	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
5/13/2024 10:38	67702	WERN_T2	1	3	2	0.2	0.4	0.2	-0.1	-0.02	0	0	0	0	0	0
5/13/2024 10:39	29401	BELT_T1	13	0	-13	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 10:39	67702	WERN_T2	1	3	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/13/2024 10:39	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
5/13/2024 10:39	67703	WERN_T2	1	3	2	0.1	0.43	0.33	-0.55	-0.57	2	2	0	1800	1800	0
5/13/2024 10:40	53601	DALM_T2	1	1	0	0.4	0.3	-0.1	0.14	0.11	0	0	0	0	0	0
5/13/2024 10:40	56504	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/13/2024 10:40	56501	ROCK_T2	3	2	-1	0.43	0.4	-0.03	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 10:41	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 10:41	61101	BERK_T5	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/13/2024 10:41	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 10:41	61102	BERK_T5	0	0	0	0	0	0	0.91	0.97	1	1	0	300	300	0
5/13/2024 10:41	61103	BERK_T5	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 10:41	45602	WOOL_T1	0	0	0	0	0	0	0.82	0.88	0	0	0	0	0	0
5/13/2024 10:41	43302	WATS_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 10:41	43301	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	1	1	0	900	900	0
5/13/2024 10:41	62105	ELAN_T1	0	3	3	0	0.3	0.3	0.37	0.38	0	0	0	0	0	0
5/13/2024 10:42	41502	FAIR_T2	0	0	0	0	0	0	-0.69	-0.66	0	0	0	0	0	0
5/13/2024 10:42	10805	OHHI_T2	6	2	-4	1.6	4.7	3.1	-0.76	-0.62	2	2	0	1200	1200	0
5/13/2024 10:44	44502	HAMI_T2	2	2	0	1.1	1.3	0.2	-0.88	-0.88	0	0	0	0	0	0
5/13/2024 10:44	44505	HAMI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 10:45	62102	ELAN_T1	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
5/13/2024 10:45	62105	ELAN_T1	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
5/13/2024 10:47	28403	HART_T2	1	2	1	0.1	0.15	0.05	-0.88	-0.88	1	1	0	900	900	0
5/13/2024 10:47	24501	GOUL_T2	0	1	1	0	0.7	0.7	0.05	0.04	0	0	0	0	0	0
5/13/2024 10:47	64902	MILL_T2	0	1	1	0	0.2	0.2	-0.76	-0.72	1	1	0	900	900	0
5/13/2024 10:47	64903	MILL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/13/2024 10:49	64904	MILL_T1	0	0	0	0	0	0	0.43	0.47	0	0	0	0	0	0
5/13/2024 10:49	47402	PENS_T1	2	3	1	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
5/13/2024 10:49	63202	MGTN_T2	0	0	0	0	0	0	0.17	0.51	1	1	0	900	900	0
5/13/2024 10:49	47401	PENS_T1	4	5	1	1.15	0.96	-0.19	1.03	1.03	0	0	0	0	0	0
5/13/2024 10:49	47403	PENS_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
5/13/2024 10:51	42201	SHEN_T2	0	2	2	0	0.1	0.1	0.02	0.03	1	1	0	600	600	0
5/13/2024 10:51	42202	SHEN_T2	1	0	-1	3	0	-3	0	0	0	0	0	0	0	0
5/13/2024 10:52	20403	ASHF_T2	3	2	-1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
5/13/2024 10:52	20401	ASHF_T2	2	2	0	0.25	0.3	0.05	-0.34	-0.35	0	0	0	0	0	0
5/13/2024 10:53	16301	ALPA_T1	1	1	0	0.2	0.2	0	-0.4	-0.36	0	0	0	0	0	0
5/13/2024 10:54	24105	EHAZ_T1	4	4	0	6.2	6.25	0.05	0	0	0	0	0	0	0	0
5/13/2024 10:54	24102	EHAZ_T1	2	1	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/13/2024 10:54	67605	WARW_T1	15	19	4	0.38	0.59	0.21	0	0	0	0	0	0	0	0
5/13/2024 10:54	24104	EHAZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 10:54	55101	WERT_T1	0	0	0	0	0	0	-1.88	-1.99	4	4	0	3000	3000	0
5/13/2024 10:54	24103	EHAZ_T1	0	0	0	0	0	0	-0.39	-0.35	0	0	0	0	0	0
5/13/2024 10:54	24101	EHAZ_T1	0	21	21	0	0.51	0.51	0	0	0	0	0	0	0	0
5/13/2024 10:54	44301	BEAV_T2	0	1	1	0	0	0	0.53	0.53	2	2	0	1500	1500	0
5/13/2024 10:54	67203	TEHI_T1	4	4	0	0.5	0.3	-0.2	2.21	2.16	2	2	0	1200	1200	0
5/13/2024 10:54	67603	WARW_T1	1	2	1	0.3	0.35	0.05	0.04	-0.01	0	0	0	0	0	0
5/13/2024 10:55	42202	SHEN_T2	1	0	-1	3	0	-3	0	0	0	0	0	0	0	0
5/13/2024 10:55	67505	WEWI_T1	1	1	0	0.2	0.3	0.1	-0.26	-0.22	1	1	0	900	900	0
5/13/2024 10:55	42201	SHEN_T2	0	2	2	0	0.1	0.1	0.03	0.02	1	1	0	600	600	0
5/13/2024 10:55	67501	WEWI_T1	4	2	-2	0.5	1.25	0.75	0	0	0	0	0	0	0	0
5/13/2024 10:56	60101	COCA_T1	0	2	2	0	0.35	0.35	0.31	0.32	0	0	0	0	0	0
5/13/2024 10:56	20403	ASHF_T2	3	2	-1	0.8	0.5	-0.3	1.39	1.36	0	0	0	0	0	0
5/13/2024 10:56	24104	EHAZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 10:56	24102	EHAZ_T1	2	1	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/13/2024 10:56	24103	EHAZ_T1	0	0	0	0	0	0	-0.39	-0.35	0	0	0	0	0	0
5/13/2024 10:56	20401	ASHF_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
5/13/2024 10:56	24101	EHAZ_T1	0	21	21	0	0.51	0.51	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/13/2024 10:56	24105	EHAZ_T1	4	4	0	6.2	6.25	0.05	0	0	0	0	0	0	0	0
5/13/2024 10:57	67603	WARW_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
5/13/2024 10:57	20401	ASHF_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
5/13/2024 10:57	44301	BEAV_T2	0	1	1	0	0	0	0.53	0.53	2	2	0	1500	1500	0
5/13/2024 10:57	67605	WARW_T1	15	19	4	0.38	0.59	0.21	0	0	0	0	0	0	0	0
5/13/2024 10:57	67604	WARW_T1	0	0	0	0	0	0	0.71	0.83	0	0	0	0	0	0
5/13/2024 10:57	20403	ASHF_T2	3	2	-1	0.8	0.5	-0.3	1.39	1.36	0	0	0	0	0	0
5/13/2024 10:58	44502	HAMI_T2	2	2	0	1.15	1.25	0.1	-0.88	-0.89	0	0	0	0	0	0
5/13/2024 10:58	44505	HAMI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/13/2024 10:58	42503	ALTA_T2	1	0	-1	0.3	0	-0.3	-0.98	-0.55	0	0	0	0	0	0
5/13/2024 10:59	62604	ENGL_T1	0	0	0	0	0	0	-0.61	-0.55	2	2	0	1200	1200	0
5/13/2024 10:59	62605	ENGL_T1	3	2	-1	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
5/13/2024 10:59	62607	ENGL_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/13/2024 10:59	62602	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 11:00	67603	WARW_T1	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
5/13/2024 11:00	67605	WARW_T1	15	21	6	0.45	0.6	0.15	-1.04	-1.06	0	0	0	0	0	0
5/13/2024 11:02	64903	MILL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/13/2024 11:02	64902	MILL_T2	1	2	1	0.2	0.3	0.1	-0.72	-0.74	1	1	0	900	900	0
5/13/2024 11:04	64901	MILL_T1	0	21	21	0	0.14	0.14	0	0	0	0	0	0	0	0
5/13/2024 11:04	64904	MILL_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
5/13/2024 11:07	57004	WHHI_T2	1	1	0	0.2	0.4	0.2	-0.49	-0.53	0	0	0	0	0	0
5/13/2024 11:07	57401	SPAN_T1	5	4	-1	0.58	0.65	0.07	-1.16	-1.11	1	1	0	600	600	0
5/13/2024 11:07	67703	WERN_T2	3	3	0	0.37	0.63	0.26	0	0	0	0	0	0	0	0
5/13/2024 11:07	57403	SPAN_T1	33	19	-14	0.31	0.33	0.02	0	0	0	0	0	0	0	0
5/13/2024 11:07	57006	WHHI_T2	5	6	1	0.68	0.68	0	0	0	0	0	0	0	0	0
5/13/2024 11:07	57005	WHHI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/13/2024 11:07	57003	WHHI_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/13/2024 11:07	67702	WERN_T2	2	4	2	0.55	0.55	0	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 11:08	57004	WHHI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/13/2024 11:08	67603	WARW_T1	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
5/13/2024 11:08	45402	WBLO_T2	5	7	2	0.62	0.53	-0.09	-0.69	-0.7	0	0	0	0	0	0
5/13/2024 11:08	57006	WHHI_T2	5	6	1	0.68	0.68	0	0.52	0.47	0	0	0	0	0	0
5/13/2024 11:08	67605	WARW_T1	15	21	6	0.45	0.6	0.15	-1.06	-1.02	0	0	0	0	0	0
5/13/2024 11:08	67203	TEHI_T1	4	2	-2	0.58	0	-0.58	0	0	0	0	0	0	0	0
5/13/2024 11:08	67201	TEHI_T1	0	0	0	0	0	0	0.88	0.82	1	1	0	600	600	0
5/13/2024 11:08	57005	WHHI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/13/2024 11:08	57003	WHHI_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/13/2024 11:09	57403	SPAN_T1	33	19	-14	0.31	0.33	0.02	0	0	0	0	0	0	0	0
5/13/2024 11:09	60102	COCA_T1	0	0	0	0	0	0	0.04	0.1	3	3	0	2100	2100	0
5/13/2024 11:09	57401	SPAN_T1	5	4	-1	0.58	0.65	0.07	-1.11	-1.09	1	1	0	600	600	0
5/13/2024 11:09	60101	COCA_T1	0	2	2	0	0.35	0.35	0.32	0.33	0	0	0	0	0	0
5/13/2024 11:10	57004	WHHI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/13/2024 11:10	57401	SPAN_T1	5	4	-1	0.58	0.65	0.07	-1.11	-1.09	1	1	0	600	600	0
5/13/2024 11:10	57006	WHHI_T2	5	6	1	0.68	0.68	0	0.52	0.47	0	0	0	0	0	0
5/13/2024 11:10	57005	WHHI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/13/2024 11:10	16301	ALPA_T1	1	2	1	0.1	0.25	0.15	-0.42	-0.4	0	0	0	0	0	0
5/13/2024 11:10	57403	SPAN_T1	33	19	-14	0.31	0.33	0.02	0	0	0	0	0	0	0	0
5/13/2024 11:10	67603	WARW_T1	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
5/13/2024 11:10	57003	WHHI_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/13/2024 11:10	67605	WARW_T1	15	21	6	0.45	0.6	0.15	-1.06	-1.02	0	0	0	0	0	0
5/13/2024 11:10	64101	REFR_T1	1	1	0	0.7	1.5	0.8	-0.13	-0.11	0	0	0	0	0	0
5/13/2024 11:11	29401	BELT_T1	0	4	4	0	0.18	0.18	0	0	1	1	0	900	900	0
5/13/2024 11:11	29402	BELT_T1	1	1	0	8.3	8.6	0.3	0	0	0	0	0	0	0	0
5/13/2024 11:12	41801	GOCI_T2	113	223	110	0.28	0.5	0.22	0	0	0	0	0	0	0	0
5/13/2024 11:12	22101	EDEL_T2	0	1	1	0	0.9	0.9	0.46	0.44	1	1	0	1200	1200	0
5/13/2024 11:12	46002	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 11:12	46004	BERW_T2	0	1	1	0	0.4	0.4	0.23	0.27	0	0	0	0	0	0
5/13/2024 11:13	53901	HALI_T2	2	5	3	0.7	0.42	-0.28	-1.54	-1.53	0	0	0	0	0	0
5/13/2024 11:13	53902	HALI_T2	3	3	0	2.6	2.83	0.23	0	0	0	0	0	0	0	0
5/13/2024 11:13	63803	HEMP_T1	4	6	2	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/13/2024 11:13	67603	WARW_T1	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
5/13/2024 11:13	53903	HALI_T2	7	11	4	0.99	0.9	-0.09	0	0	0	0	0	0	0	0
5/13/2024 11:13	60101	COCA_T1	0	2	2	0	0.35	0.35	0.63	0.65	0	0	0	0	0	0
5/13/2024 11:13	67605	WARW_T1	15	21	6	0.45	0.6	0.15	-2.12	-2.04	0	0	0	0	0	0
5/13/2024 11:13	41801	GOCI_T2	113	223	110	0.28	0.5	0.22	0	0	0	0	0	0	0	0
5/13/2024 11:13	63801	HEMP_T1	12	21	9	0.42	0.43	0.01	0	0	0	0	0	0	0	0
5/13/2024 11:13	63804	HEMP_T1	1	2	1	6	3.05	-2.95	1.05	1.02	0	0	0	0	0	0
5/13/2024 11:13	63802	HEMP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/13/2024 11:14	53902	HALI_T2	3	3	0	2.6	2.83	0.23	0	0	0	0	0	0	0	0
5/13/2024 11:14	53903	HALI_T2	7	11	4	0.99	0.9	-0.09	0	0	0	0	0	0	0	0
5/13/2024 11:14	62607	ENGL_T1	1	3	2	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
5/13/2024 11:14	62602	ENGL_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/13/2024 11:14	62606	ENGL_T1	0	0	0	0	0	0	-0.53	-0.46	1	1	0	900	900	0
5/13/2024 11:14	62605	ENGL_T1	2	5	3	0.2	0.2	0	0	0	0	0	0	0	0	0
5/13/2024 11:14	28403	HART_T2	1	1	0	0.1	0.2	0.1	-0.86	-0.87	1	1	0	900	900	0
5/13/2024 11:14	53901	HALI_T2	2	5	3	0.7	0.42	-0.28	-1.54	-1.53	0	0	0	0	0	0
5/13/2024 11:15	67603	WARW_T1	2	2	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
5/13/2024 11:15	67605	WARW_T1	19	21	2	0.57	0.62	0.05	-1.06	-1.02	0	0	0	0	0	0
5/13/2024 11:18	13503	MCMI_T2	0	1	1	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 11:18	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 11:18	16401	MOPO_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
5/13/2024 11:18	58402	MORO_T1	0	0	0	0	0	0	-0.33	-0.35	4	4	0	3000	3000	0
5/13/2024 11:22	57401	SPAN_T1	4	4	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
5/13/2024 11:22	14802	TREI_T2	0	1	1	0	0.1	0.1	0.43	0.33	0	0	0	0	0	0
5/13/2024 11:22	14801	TREI_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/13/2024 11:22	57403	SPAN_T1	12	19	7	0.31	0.33	0.02	-0.04	0.01	0	0	0	0	0	0
5/13/2024 11:23	42201	SHEN_T2	1	1	0	0.1	0.2	0.1	0	0.01	1	1	0	600	600	0
5/13/2024 11:23	44601	SALE_T2	0	0	0	0	0	0	1.15	-0.15	1	1	0	600	600	0
5/13/2024 11:25	14802	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 11:25	57401	SPAN_T1	4	4	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
5/13/2024 11:25	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 11:25	14801	TREI_T2	2	2	0	0.3	0.3	0	0.36	0.34	0	0	0	0	0	0
5/13/2024 11:25	57403	SPAN_T1	12	19	7	0.31	0.33	0.02	0.01	-0.01	0	0	0	0	0	0
5/13/2024 11:26	57403	SPAN_T1	12	19	7	0.31	0.33	0.02	0.01	-0.01	0	0	0	0	0	0
5/13/2024 11:26	57401	SPAN_T1	4	4	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
5/13/2024 11:26	42501	ALTA_T2	0	0	0	0	0	0	0.13	0.12	1	1	0	600	600	0
5/13/2024 11:26	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 11:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 11:27	41502	FAIR_T2	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
5/13/2024 11:29	11801	FRAN_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
5/13/2024 11:29	41801	GOCI_T2	204	198	-6	0.46	0.54	0.08	0	0	0	0	0	0	0	0
5/13/2024 11:29	11805	FRAN_T1	0	0	0	0	0	0	-1.21	-1.22	1	1	0	1200	1200	0
5/13/2024 11:29	11804	FRAN_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/13/2024 11:30	12801	MICK_T1	0	0	0	0	0	0	-0.03	-0.06	1	1	0	600	600	0
5/13/2024 11:30	12807	MICK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/13/2024 11:33	51004	NHAR_T1	15	20	5	0.91	1.02	0.11	-0.38	-0.41	0	0	0	0	0	0
5/13/2024 11:33	51006	NHAR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 11:33	51002	NHAR_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/13/2024 11:40	10805	CHHI_T2	1	1	0	8.2	8.2	0	-1.04	-1.11	1	1	0	600	600	0
5/13/2024 11:41	59002	MIFF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 11:41	64702	LITI_T2	0	0	0	0	0	0	-0.71	-0.63	0	0	0	0	0	0
5/13/2024 11:41	59003	MIFF_T1	0	0	0	0	0	0	-0.5	-0.61	0	0	0	0	0	0
5/13/2024 11:41	59001	MIFF_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
5/13/2024 11:42	13704	SCHN_T2	0	1	1	0	0.4	0.4	-0.29	-0.33	0	0	0	0	0	0
5/13/2024 11:42	13901	SEID_T1	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
5/13/2024 11:43	65501	MOJO_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	900	900	0
5/13/2024 11:43	15103	UPHA_T2	0	2	2	0	0.5	0.5	0.43	0.37	0	0	0	0	0	0
5/13/2024 11:44	28701	HAML_T2	4	4	0	1	1.18	0.18	0	0	0	0	0	0	0	0
5/13/2024 11:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 11:44	28703	HAML_T2	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0	0
5/13/2024 11:44	60502	NMAN_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
5/13/2024 11:44	56503	ROCK_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/13/2024 11:44	28704	HAML_T2	1	1	0	0.7	0.9	0.2	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 11:44	56504	ROCK_T2	3	3	0	0.4	0.67	0.27	0	0	0	0	0	0	0	0
5/13/2024 11:44	60501	NMAN_T2	4	6	2	3.65	2.78	-0.87	0	0	0	0	0	0	0	0
5/13/2024 11:44	40502	CRES_T2	19	11	-8	0.33	0.41	0.08	0	0.01	0	0	0	0	0	0
5/13/2024 11:44	56501	ROCK_T2	4	6	2	0.35	0.45	0.1	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 11:44	60504	NMAN_T2	2	3	1	0.9	0.77	-0.13	0	0	0	0	0	0	0	0
5/13/2024 11:45	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 11:45	62605	ENGL_T1	2	10	8	0.15	0.38	0.23	-0.74	-0.74	0	0	0	0	0	0
5/13/2024 11:45	10805	CHHI_T2	1	1	0	8.2	7.8	-0.4	-1.04	-1.11	1	1	0	600	600	0
5/13/2024 11:45	62602	ENGL_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/13/2024 11:45	57004	WHHI_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/13/2024 11:45	57001	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 11:45	57002	WHHI_T2	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
5/13/2024 11:45	62607	ENGL_T1	2	5	3	0.4	0.42	0.02	0	0	0	0	0	0	0	0
5/13/2024 11:45	57005	WHHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/13/2024 11:45	57006	WHHI_T2	5	6	1	0.68	0.57	-0.11	0	0	0	0	0	0	0	0
5/13/2024 11:46	56803	BENV_T1	4	6	2	0.85	0.94	0.09	0	0	0	0	0	0	0	0
5/13/2024 11:46	57303	MOAL_T2	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
5/13/2024 11:46	57302	MOAL_T2	0	0	0	0	0	0	-0.32	-0.28	0	0	0	0	0	0
5/13/2024 11:46	13502	MCMI_T1	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
5/13/2024 11:46	45902	AUBU_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/13/2024 11:46	45901	AUBU_T1	0	0	0	0	0	0	1.47	1.52	0	0	0	0	0	0
5/13/2024 11:46	13501	MCMI_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
5/13/2024 11:46	56801	BENV_T1	15	13	-2	0.73	0.89	0.16	-0.27	-0.25	1	1	0	600	600	0
5/13/2024 11:46	44601	SALE_T2	0	0	0	0	0	0	-0.17	0.18	2	2	0	1200	1200	0
5/13/2024 11:46	57304	MOAL_T2	8	3	-5	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
5/13/2024 11:47	64801	MONE_T2	6	7	1	0.45	0.46	0.01	0.26	0.29	0	0	0	0	0	0
5/13/2024 11:47	64802	MONE_T2	28	25	-3	0.36	0.38	0.02	0	0	0	0	0	0	0	0
5/13/2024 11:47	10801	CHHI_T1	0	0	0	0	0	0	-0.68	-0.63	1	1	0	900	900	0
5/13/2024 11:48	56501	ROCK_T2	2	10	8	0.2	0.39	0.19	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 11:48	57403	SPAN_T1	14	26	12	0.31	0.37	0.06	0	0	0	0	0	0	0	0
5/13/2024 11:48	57401	SPAN_T1	3	8	5	0.17	0.49	0.32	-1.09	-1.12	1	1	0	600	600	0
5/13/2024 11:48	56503	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/13/2024 11:48	56504	ROCK_T2	1	5	4	0.7	0.62	-0.08	0	0	0	0	0	0	0	0
5/13/2024 11:49	59101	WALK_T2	3	3	0	0.7	0.63	-0.07	1.54	1.89	0	0	0	0	0	0
5/13/2024 11:49	42802	SELI_T1	1	2	1	0.5	0.5	0	-0.7	-0.72	1	1	0	900	900	0
5/13/2024 11:49	45902	AUBU_T1	0	1	1	0	0.8	0.8	-0.35	-0.33	1	1	0	600	600	0
5/13/2024 11:49	59102	WALK_T2	0	7	7	0	0.61	0.61	0	0	0	0	0	0	0	0
5/13/2024 11:50	60502	NMAN_T2	0	3	3	0	0.17	0.17	-0.22	-0.21	0	0	0	0	0	0
5/13/2024 11:50	56801	BENV_T1	15	13	-2	0.73	0.89	0.16	-0.27	-0.25	1	1	0	600	600	0
5/13/2024 11:50	60501	NMAN_T2	4	8	4	3.78	2.18	-1.6	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/13/2024 11:50	16402	MOPO_T1	0	2	2	0	0.65	0.65	0.24	-0.06	0	0	0	0	0	0
5/13/2024 11:50	60504	NMAN_T2	3	3	0	0.77	1.1	0.33	0	0	0	0	0	0	0	0
5/13/2024 11:50	56803	BENV_T1	4	6	2	0.85	0.94	0.09	0	0	0	0	0	0	0	0
5/13/2024 11:50	16401	MOPO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/13/2024 11:51	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 11:51	40502	CRES_T2	7	16	9	0.37	0.34	-0.03	0	0.01	0	0	0	0	0	0
5/13/2024 11:51	40505	CRES_T1	3	3	0	4.7	5.03	0.33	0.32	0.33	0	0	0	0	0	0
5/13/2024 11:52	16302	ALPA_T2	0	4	4	0	0.33	0.33	0.66	0.72	0	0	0	0	0	0
5/13/2024 11:52	56801	BENV_T1	15	13	-2	0.73	0.89	0.16	-0.27	-0.25	1	1	0	600	600	0
5/13/2024 11:52	42802	SELI_T1	1	2	1	0.5	0.5	0	-0.7	-0.72	1	1	0	900	900	0
5/13/2024 11:52	56803	BENV_T1	4	6	2	0.85	0.94	0.09	0	0	0	0	0	0	0	0
5/13/2024 11:55	16302	ALPA_T2	0	4	4	0	0.33	0.33	1.45	1.42	0	0	0	0	0	0
5/13/2024 11:56	10705	CATA_T2	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
5/13/2024 11:56	10701	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 11:57	41801	GOCI_T2	170	175	5	0.52	0.46	-0.06	0	0	0	0	0	0	0	0
5/13/2024 11:57	53601	DALM_T2	1	1	0	0.4	1.4	1	0.07	0.06	0	0	0	0	0	0
5/13/2024 11:57	16302	ALPA_T2	0	4	4	0	0.33	0.33	0.72	0.71	0	0	0	0	0	0
5/13/2024 11:58	40101	HUNT_T2	0	0	0	0	0	0	-0.18	-0.29	0	0	0	0	0	0
5/13/2024 11:58	63803	HEMP_T1	7	6	-1	0.49	0.52	0.03	0	0	0	0	0	0	0	0
5/13/2024 11:58	63802	HEMP_T1	1	3	2	0.2	0.27	0.07	0.28	0.27	0	0	0	0	0	0
5/13/2024 11:58	63804	HEMP_T1	2	4	2	3.05	1.63	-1.42	0	0	0	0	0	0	0	0
5/13/2024 11:58	63801	HEMP_T1	15	22	7	0.47	0.52	0.05	0	0	0	0	0	0	0	0
5/13/2024 11:59	63803	HEMP_T1	7	6	-1	0.49	0.52	0.03	0	0	0	0	0	0	0	0
5/13/2024 11:59	62607	ENGL_T1	2	5	3	0.4	0.42	0.02	0	0	0	0	0	0	0	0
5/13/2024 11:59	62602	ENGL_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/13/2024 11:59	62605	ENGL_T1	2	10	8	0.15	0.38	0.23	-0.74	-0.72	0	0	0	0	0	0
5/13/2024 11:59	41801	GOCI_T2	170	175	5	0.52	0.46	-0.06	0	0	0	0	0	0	0	0
5/13/2024 11:59	63802	HEMP_T1	1	3	2	0.2	0.27	0.07	0.28	0.27	0	0	0	0	0	0
5/13/2024 11:59	63804	HEMP_T1	2	4	2	3.05	1.63	-1.42	0	0	0	0	0	0	0	0
5/13/2024 11:59	63801	HEMP_T1	15	22	7	0.47	0.52	0.05	0	0	0	0	0	0	0	0
5/13/2024 12:02	25402	LAHA_T2	0	1	1	0	0.3	0.3	-0.6	-0.56	0	0	0	0	0	0
5/13/2024 12:04	64802	MONE_T2	15	25	10	0.31	0.42	0.11	0.18	0.18	0	0	0	0	0	0
5/13/2024 12:04	58401	MORO_T1	0	1	1	0	0.2	0.2	-0.88	-0.85	1	1	0	600	600	0
5/13/2024 12:04	64801	MONE_T2	3	7	4	0.47	0.47	0	0	0	0	0	0	0	0	0
5/13/2024 12:05	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 12:05	66504	SMAN_T2	1	2	1	1	0.65	-0.35	0	0	0	0	0	0	0	0
5/13/2024 12:05	58401	MORO_T1	0	1	1	0	0.2	0.2	-0.88	-0.85	1	1	0	600	600	0
5/13/2024 12:05	52501	PROG_T1	2	4	2	0.55	0.43	-0.12	0.47	0.45	1	1	0	300	300	0
5/13/2024 12:05	66501	SMAN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
5/13/2024 12:05	66502	SMAN_T2	3	15	12	0.67	0.48	-0.19	0.14	0.23	0	0	0	0	0	0
5/13/2024 12:06	13606	RICH_T2	1	1	0	7.1	6.7	-0.4	0	0	0	0	0	0	0	0
5/13/2024 12:06	13601	RICH_T2	0	0	0	0	0	0	0	-0.02	1	1	0	600	600	0
5/13/2024 12:07	66501	SMAN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
5/13/2024 12:07	64701	LITI_T1	0	0	0	0	0	0	0.4	0.24	0	0	0	0	0	0
5/13/2024 12:07	66502	SMAN_T2	3	15	12	0.67	0.48	-0.19	0	0	0	0	0	0	0	0
5/13/2024 12:07	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 12:07	64704	LITI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 12:07	66504	SMAN_T2	1	2	1	1	0.65	-0.35	-0.33	-0.25	0	0	0	0	0	0
5/13/2024 12:09	67605	WARW_T1	16	22	6	0.49	0.67	0.18	-1.05	-1.02	0	0	0	0	0	0
5/13/2024 12:09	67402	WAKE_T2	0	1	1	0	0.1	0.1	0.44	0.42	1	1	0	600	600	0
5/13/2024 12:09	67401	WAKE_T2	5	8	3	0.34	0.48	0.14	0	0	0	0	0	0	0	0
5/13/2024 12:09	58401	MORO_T1	0	1	1	0	0.2	0.2	-0.85	-0.83	1	1	0	600	600	0
5/13/2024 12:09	52202	DEVO_T2	4	5	1	0.73	0.76	0.03	-0.75	-0.73	0	0	0	0	0	0
5/13/2024 12:09	52204	DEVO_T2	1	2	1	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
5/13/2024 12:09	67603	WARW_T1	2	2	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
5/13/2024 12:10	45902	AUBU_T1	1	1	0	0.8	0.9	0.1	-0.24	-0.32	1	1	0	600	600	0
5/13/2024 12:10	52202	DEVO_T2	4	5	1	0.73	0.76	0.03	-0.75	-0.73	0	0	0	0	0	0
5/13/2024 12:10	52204	DEVO_T2	1	2	1	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
5/13/2024 12:11	15703	TANN_T2	1	1	0	6.2	5.9	-0.3	0	0	0	0	0	0	0	0
5/13/2024 12:11	63303	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 12:11	15702	TANN_T2	1	1	0	0.4	0.3	-0.1	0.51	0.5	0	0	0	0	0	0
5/13/2024 12:11	63305	GREE_T1	0	0	0	0	0	0	-0.94	-0.91	0	0	0	0	0	0
5/13/2024 12:12	45902	AUBU_T1	1	1	0	0.8	0.9	0.1	-0.24	-0.32	1	1	0	600	600	0
5/13/2024 12:12	67401	WAKE_T2	5	8	3	0.34	0.48	0.14	0	0	0	0	0	0	0	0
5/13/2024 12:12	45901	AUBU_T1	0	0	0	0	0	0	1.54	1.68	0	0	0	0	0	0
5/13/2024 12:12	17401	FOHI_T1	0	0	0	0	0	0	-2.08	-2	0	0	0	0	0	0
5/13/2024 12:12	67402	WAKE_T2	0	1	1	0	0.1	0.1	0.44	0.42	1	1	0	600	600	0
5/13/2024 12:14	67603	WARW_T1	2	2	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
5/13/2024 12:14	20601	GRWO_T2	0	0	0	0	0	0	0.32	0.37	0	0	0	0	0	0
5/13/2024 12:14	67605	WARW_T1	16	22	6	0.49	0.67	0.18	-1.05	-1.02	0	0	0	0	0	0
5/13/2024 12:14	40101	HUNT_T2	0	0	0	0	0	0	-0.29	-0.46	0	0	0	0	0	0
5/13/2024 12:14	10801	CHHI_T1	0	0	0	0	0	0	-0.63	-0.59	1	1	0	900	900	0
5/13/2024 12:14	20603	GRWO_T2	0	10	10	0	0.18	0.18	0	0	0	0	0	0	0	0
5/13/2024 12:15	47101	MARL_T1	1	1	0	0.7	0.7	0	0	-0.07	0	0	0	0	0	0
5/13/2024 12:15	47103	MARL_T2	1	2	1	0.4	0.4	0	-0.53	-0.5	0	0	0	0	0	0
5/13/2024 12:15	47102	MARL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 12:15	47104	MARL_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/13/2024 12:16	40101	HUNT_T2	0	1	1	0	0	0	-0.29	-0.46	0	0	0	0	0	0
5/13/2024 12:17	54202	PENN_T2	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
5/13/2024 12:17	54206	PENN_T2	7	8	1	0.34	0.36	0.02	0.18	0.18	0	0	0	0	0	0
5/13/2024 12:18	47104	MARL_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/13/2024 12:18	47101	MARL_T1	1	1	0	0.7	0.7	0	0	-0.07	0	0	0	0	0	0
5/13/2024 12:19	54206	PENN_T2	7	8	1	0.34	0.36	0.02	0.18	0.18	0	0	0	0	0	0
5/13/2024 12:19	54202	PENN_T2	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
5/13/2024 12:19	13606	RICH_T2	1	2	1	6.9	3.65	-3.25	1.09	1.01	0	0	0	0	0	0
5/13/2024 12:20	13501	MCMI_T1	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
5/13/2024 12:20	16504	STRO_T1	0	33	33	0	0.16	0.16	-0.9	-0.91	1	1	0	1200	1200	0
5/13/2024 12:20	42201	SHEN_T2	2	1	-1	0.55	0.4	-0.15	0.01	0.04	1	1	0	600	600	0
5/13/2024 12:20	14403	SSLA_T1	0	5	5	0	0.52	0.52	0	0	0	0	0	0	0	0
5/13/2024 12:20	58402	MORO_T1	0	0	0	0	0	0	-0.24	-0.25	2	2	0	1500	1500	0
5/13/2024 12:20	54202	PENN_T2	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
5/13/2024 12:20	14402	SSLA_T1	1	2	1	0.4	0.65	0.25	0	0	0	0	0	0	0	0
5/13/2024 12:20	13502	MCMI_T1	1	3	2	1	1.03	0.03	0	0	0	0	0	0	0	0
5/13/2024 12:20	14404	SSLA_T1	3	11	8	1.97	0.85	-1.12	0	-0.02	0	0	0	0	0	0
5/13/2024 12:20	58401	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/13/2024 12:20	14401	SSLA_T1	1	4	3	0.3	0.58	0.28	0	0	0	0	0	0	0	0
5/13/2024 12:20	54206	PENN_T2	7	8	1	0.34	0.36	0.02	0.18	0.18	0	0	0	0	0	0
5/13/2024 12:21	58401	MORO_T1	1	0	-1	0.2	0	-0.2	-0.85	-0.83	1	1	0	600	600	0
5/13/2024 12:22	13704	SCHN_T2	1	4	3	0.4	0.3	-0.1	-0.33	-0.3	0	0	0	0	0	0
5/13/2024 12:22	13701	SCHN_T2	0	7	7	0	0.23	0.23	0	0	0	0	0	0	0	0
5/13/2024 12:22	54206	PENN_T2	7	8	1	0.34	0.36	0.02	0	0	0	0	0	0	0	0
5/13/2024 12:22	54202	PENN_T2	3	1	-2	0.13	0.1	-0.03	0.02	-0.1	0	0	0	0	0	0
5/13/2024 12:24	66502	SMAN_T2	14	11	-3	0.39	0.56	0.17	0	0	0	0	0	0	0	0
5/13/2024 12:24	15201	SFAR_T1	0	0	0	0	0	0	0.24	0.24	1	1	0	1200	1200	0
5/13/2024 12:24	10801	CHHI_T1	0	0	0	0	0	0	-0.59	-0.45	1	1	0	900	900	0
5/13/2024 12:24	66501	SMAN_T2	2	2	0	0.45	0.15	-0.3	0	0	0	0	0	0	0	0
5/13/2024 12:24	66505	SMAN_T2	0	1	1	0	0.1	0.1	0.72	0.66	2	2	0	1100	1100	0
5/13/2024 12:24	16504	STRO_T1	0	33	33	0	0.16	0.16	0	0	0	0	0	0	0	0
5/13/2024 12:24	16505	STRO_T1	0	0	0	0	0	0	0.14	0.19	0	0	0	0	0	0
5/13/2024 12:24	66504	SMAN_T2	1	2	1	0.2	0.65	0.45	0	0	0	0	0	0	0	0
5/13/2024 12:25	13905	SEID_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
5/13/2024 12:25	13901	SEID_T1	0	0	0	0	0	0	0.3	0.2	0	0	0	0	0	0
5/13/2024 12:28	10901	COOP_T2	0	0	0	0	0	0	1.18	1.26	0	0	0	0	0	0
5/13/2024 12:28	11302	EMMA_T1	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
5/13/2024 12:28	11303	EMMA_T1	3	8	5	1.07	0.64	-0.43	0	0	0	0	0	0	0	0
5/13/2024 12:28	10903	COOP_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
5/13/2024 12:28	11301	EMMA_T1	1	2	1	0.2	0.15	-0.05	-0.79	-0.81	0	0	0	0	0	0
5/13/2024 12:29	11303	EMMA_T1	3	8	5	1.07	0.64	-0.43	-1.67	-1.64	0	0	0	0	0	0
5/13/2024 12:29	11301	EMMA_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/13/2024 12:29	11302	EMMA_T1	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
5/13/2024 12:30	10801	CHHI_T1	0	2	2	0	0.3	0.3	-0.59	-0.45	1	1	0	900	900	0
5/13/2024 12:30	11302	EMMA_T1	2	2	0	0.4	1.05	0.65	0	0	0	0	0	0	0	0
5/13/2024 12:30	11303	EMMA_T1	6	8	2	0.63	0.64	0.01	0	0	0	0	0	0	0	0
5/13/2024 12:30	11301	EMMA_T1	2	0	-2	0.15	0	-0.15	-0.79	-0.81	0	0	0	0	0	0
5/13/2024 12:31	63801	HEMP_T1	21	17	-4	0.54	0.56	0.02	0	0	0	0	0	0	0	0
5/13/2024 12:31	63803	HEMP_T1	6	5	-1	0.5	0.56	0.06	0	0	0	0	0	0	0	0
5/13/2024 12:31	63804	HEMP_T1	2	3	1	3.05	2	-1.05	1.08	1.09	0	0	0	0	0	0
5/13/2024 12:31	63802	HEMP_T1	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/13/2024 12:32	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/13/2024 12:32	65205	PRIN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/13/2024 12:34	27603	PIRI_T2	0	0	0	0	0	0	-0.26	-0.07	2	2	0	1800	1800	0
5/13/2024 12:34	16504	STRO_T1	26	32	6	0.13	0.17	0.04	0	0	0	0	0	0	0	0
5/13/2024 12:34	16501	STRO_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
5/13/2024 12:34	42201	SHEN_T2	0	1	1	0	0.4	0.4	0.04	0.08	1	1	0	600	600	0
5/13/2024 12:34	64902	MILL_T2	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
5/13/2024 12:35	13606	RICH_T2	1	2	1	6.7	3.75	-2.95	1.01	0.86	0	0	0	0	0	0
5/13/2024 12:35	14802	TREI_T2	15	15	0	0.15	0.18	0.03	0	0	0	0	0	0	0	0
5/13/2024 12:35	67204	TEHI_T2	1	0	-1	0.1	0	-0.1	-0.09	0.03	0	0	0	0	0	0
5/13/2024 12:35	14801	TREI_T2	58	41	-17	0.2	0.21	0.01	0.32	0.37	0	0	0	0	0	0
5/13/2024 12:36	58402	MORO_T1	0	0	0	0	0	0	-0.25	-0.23	2	2	0	1500	1500	0
5/13/2024 12:36	58401	MORO_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/13/2024 12:37	15703	TANN_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
5/13/2024 12:37	15702	TANN_T2	1	1	0	0.6	0	-0.6	0.5	0.49	0	0	0	0	0	0
5/13/2024 12:37	67204	TEHI_T2	1	0	-1	0.1	0	-0.1	-0.09	0.03	0	0	0	0	0	0
5/13/2024 12:38	13704	SCHN_T2	2	3	1	0.45	0.37	-0.08	-0.3	-0.33	0	0	0	0	0	0
5/13/2024 12:38	14802	TREI_T2	15	15	0	0.15	0.18	0.03	0.38	0.34	0	0	0	0	0	0
5/13/2024 12:38	15001	BLMO_T1	8	5	-3	0.29	0.2	-0.09	0	0	0	0	0	0	0	0
5/13/2024 12:38	13701	SCHN_T2	3	5	2	0.23	0.28	0.05	0	0	0	0	0	0	0	0
5/13/2024 12:38	14801	TREI_T2	58	41	-17	0.2	0.21	0.01	0	0	0	0	0	0	0	0
5/13/2024 12:39	60502	NMAN_T2	3	1	-2	0.33	0.2	-0.13	-0.12	-0.05	0	0	0	0	0	0
5/13/2024 12:39	60504	NMAN_T2	3	3	0	0.87	0.93	0.06	0	0	0	0	0	0	0	0
5/13/2024 12:39	14801	TREI_T2	58	41	-17	0.2	0.21	0.01	0	0	0	0	0	0	0	0
5/13/2024 12:39	16302	ALPA_T2	1	2	1	0.5	0.25	-0.25	0.77	0.7	0	0	0	0	0	0
5/13/2024 12:39	14802	TREI_T2	15	15	0	0.15	0.18	0.03	0.34	0.38	0	0	0	0	0	0
5/13/2024 12:39	29401	BELT_T1	32	5	-27	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
5/13/2024 12:39	60501	NMAN_T2	8	8	0	2.21	1.88	-0.33	0	0	0	0	0	0	0	0
5/13/2024 12:39	29402	BELT_T1	5	4	-1	2.02	2.58	0.56	0	0	0	0	0	0	0	0
5/13/2024 12:40	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 12:40	15703	TANN_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
5/13/2024 12:40	66501	SMAN_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/13/2024 12:40	66502	SMAN_T2	10	11	1	0.51	0.5	-0.01	0	0	0	0	0	0	0	0
5/13/2024 12:40	57006	WHHI_T2	4	4	0	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
5/13/2024 12:40	27503	WEIS_T2	2	1	-1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/13/2024 12:40	57004	WHHI_T2	1	1	0	0.4	0.3	-0.1	-0.48	-0.44	0	0	0	0	0	0
5/13/2024 12:40	15702	TANN_T2	1	1	0	0.6	0	-0.6	0.49	0.49	0	0	0	0	0	0
5/13/2024 12:40	57005	WHHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/13/2024 12:40	27502	WEIS_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
5/13/2024 12:40	66503	SMAN_T2	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
5/13/2024 12:40	16302	ALPA_T2	1	2	1	0.5	0.25	-0.25	0.77	0.7	0	0	0	0	0	0
5/13/2024 12:40	66504	SMAN_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
5/13/2024 12:40	57003	WHHI_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/13/2024 12:41	46504	LOHA_T1	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
5/13/2024 12:41	46506	LOHA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/13/2024 12:41	46501	LOHA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/13/2024 12:41	40802	EXCH_T2	0	1	1	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0
5/13/2024 12:41	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.64	0	0	0	0	0	0
5/13/2024 12:41	40801	EXCH_T2	3	3	0	0.27	0.37	0.1	0	0	0	0	0	0	0	0
5/13/2024 12:41	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
5/13/2024 12:43	52204	DEVO_T2	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
5/13/2024 12:43	47001	HUGH_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
5/13/2024 12:43	52202	DEVO_T2	5	5	0	0.68	0.62	-0.06	-0.74	-0.71	0	0	0	0	0	0
5/13/2024 12:44	11202	ELHE_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
5/13/2024 12:45	44505	HAMI_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/13/2024 12:45	56503	ROCK_T2	1	2	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
5/13/2024 12:45	56504	ROCK_T2	1	3	2	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
5/13/2024 12:45	14204	EALL_T2	2	4	2	0.15	0.35	0.2	-0.37	-0.37	0	0	0	0	0	0
5/13/2024 12:45	49803	UNIV_T1	0	0	0	0	0	0	-1.06	-1.09	0	0	0	0	0	0
5/13/2024 12:45	44504	HAMI_T2	0	0	0	0	0	0	-1	-0.86	0	0	0	0	0	0
5/13/2024 12:45	44502	HAMI_T2	1	1	0	2.2	2.6	0.4	0	0	0	0	0	0	0	0
5/13/2024 12:45	56501	ROCK_T2	3	9	6	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
5/13/2024 12:47	66302	MCGO_T2	1	2	1	1.2	0.6	-0.6	-1.06	-0.86	1	1	0	600	600	0
5/13/2024 12:47	66303	MCGO_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/13/2024 12:49	41301	FISH_T1	5	4	-1	1.16	1.5	0.34	-0.07	-0.02	0	0	0	0	0	0
5/13/2024 12:49	59301	MCAL_T1	4	6	2	0.58	0.6	0.02	0	0	0	0	0	0	0	0
5/13/2024 12:49	59302	MCAL_T1	0	0	0	0	0	0	-0.31	-0.23	1	1	0	600	600	0
5/13/2024 12:49	52501	PROG_T1	2	3	1	0.25	0.53	0.28	0.45	0.5	1	1	0	300	300	0
5/13/2024 12:51	40603	PIGR_T1	3	5	2	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
5/13/2024 12:51	46506	LOHA_T1	1	1	0	0.1	0.4	0.3	-0.42	-0.4	0	0	0	0	0	0
5/13/2024 12:51	46504	LOHA_T1	2	2	0	0.6	1.05	0.45	0	0	0	0	0	0	0	0
5/13/2024 12:51	52501	PROG_T1	2	3	1	0.25	0.53	0.28	0.45	0.5	1	1	0	300	300	0
5/13/2024 12:51	46501	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 12:51	58402	MORO_T1	0	0	0	0	0	0	-0.23	-0.2	2	2	0	1500	1500	0
5/13/2024 12:51	40601	PIGR_T1	140	159	19	0.48	0.55	0.07	0	0	0	0	0	0	0	0
5/13/2024 12:51	40602	PIGR_T1	4	3	-1	0.43	0.4	-0.03	-1.73	-1.71	3	3	0	1800	1800	0
5/13/2024 12:51	58401	MORO_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/13/2024 12:52	64101	REFR_T1	4	7	3	0.83	0.84	0.01	-0.11	-0.1	0	0	0	0	0	0
5/13/2024 12:56	41802	GOCI_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
5/13/2024 12:56	41801	GOCI_T2	159	284	125	0.36	0.69	0.33	0	0	0	0	0	0	0	0
5/13/2024 12:58	40101	HUNT_T2	1	3	2	0.4	0.23	-0.17	-0.52	-0.53	0	0	0	0	0	0
5/13/2024 12:58	60101	COCA_T1	2	2	0	0.15	0.25	0.1	0.36	0.34	0	0	0	0	0	0
5/13/2024 12:58	11507	FREE_T2	0	0	0	0	0	0	1.04	0.79	0	0	0	0	0	0
5/13/2024 12:59	60101	COCA_T1	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
5/13/2024 12:59	60102	COCA_T1	0	0	0	0	0	0	0.28	0.33	3	3	0	2100	2100	0
5/13/2024 12:59	10805	OHHI_T2	2	1	-1	4.4	8.8	4.4	-0.48	-0.44	1	1	0	600	600	0
5/13/2024 13:00	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 13:00	41802	GOCI_T2	1	5	4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
5/13/2024 13:00	41801	GOCI_T2	270	281	11	0.63	0.69	0.06	0	0	0	0	0	0	0	0
5/13/2024 13:01	40101	HUNT_T2	0	3	3	0	0.27	0.27	-0.52	-0.53	0	0	0	0	0	0
5/13/2024 13:02	64802	MONE_T2	29	26	-3	0.36	0.42	0.06	0.19	0.18	0	0	0	0	0	0
5/13/2024 13:02	46801	HEPB_T2	2	2	0	0.5	0.75	0.25	0.59	0.61	0	0	0	0	0	0
5/13/2024 13:02	42902	MIDD_T2	7	7	0	0.47	0.33	-0.14	-0.73	-0.63	1	1	0	600	600	0
5/13/2024 13:02	64801	MONE_T2	7	5	-2	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
5/13/2024 13:02	46803	HEPB_T2	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/13/2024 13:02	16403	MOPO_T2	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
5/13/2024 13:04	27605	PIRI_T2	0	0	0	0	0	0	-0.38	-0.26	1	1	0	900	900	0
5/13/2024 13:04	13502	MCMI_T1	3	4	1	0.77	0.8	0.03	0	0	0	0	0	0	0	0
5/13/2024 13:04	13501	MCMI_T1	0	1	1	0	0.4	0.4	0.06	0.05	0	0	0	0	0	0
5/13/2024 13:05	42902	MIDD_T2	7	7	0	0.47	0.33	-0.14	-0.73	-0.63	1	1	0	600	600	0
5/13/2024 13:05	59301	MCAL_T1	6	6	0	0.38	0.58	0.2	0	0	0	0	0	0	0	0
5/13/2024 13:05	59302	MCAL_T1	0	0	0	0	0	0	-0.23	-0.15	1	1	0	600	600	0
5/13/2024 13:08	14403	SSLA_T1	3	3	0	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
5/13/2024 13:08	64101	REFR_T1	7	6	-1	0.81	0.8	-0.01	-0.2	-0.18	0	0	0	0	0	0
5/13/2024 13:08	14401	SSLA_T1	2	5	3	0.6	0.86	0.26	0.55	0.51	0	0	0	0	0	0
5/13/2024 13:08	14404	SSLA_T1	5	8	3	1.36	1.15	-0.21	0	0	0	0	0	0	0	0
5/13/2024 13:08	14402	SSLA_T1	2	3	1	0.5	0.5	0	0	0	0	0	0	0	0	0
5/13/2024 13:10	41602	CLEV_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/13/2024 13:11	24101	EHAZ_T1	7	28	21	0.23	1.13	0.9	0	0	0	0	0	0	0	0
5/13/2024 13:11	24102	EHAZ_T1	6	1	-5	0.58	0	-0.58	0	0	0	0	0	0	0	0
5/13/2024 13:11	24104	EHAZ_T1	0	2	2	0	0.25	0.25	-0.92	-0.92	1	1	0	1200	1200	0
5/13/2024 13:11	24105	EHAZ_T1	4	4	0	5.6	5.18	-0.42	0	0	0	0	0	0	0	0
5/13/2024 13:14	41504	FAIR_T2	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
5/13/2024 13:14	18001	ZION_T1	1	4	3	0.5	0.5	0	0	0	0	0	0	0	0	0
5/13/2024 13:15	62601	ENGL_T1	0	1	1	0	9.9	9.9	0	0	0	0	0	0	0	0
5/13/2024 13:15	62607	ENGL_T1	5	4	-1	0.36	0.37	0.01	0	0	0	0	0	0	0	0
5/13/2024 13:15	62605	ENGL_T1	6	5	-1	0.38	0.52	0.14	0	0	0	0	0	0	0	0
5/13/2024 13:15	62602	ENGL_T1	1	1	0	0.7	0.6	-0.1	0.07	0.07	0	0	0	0	0	0
5/13/2024 13:16	11801	FRAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/13/2024 13:16	14204	EALL_T2	1	5	4	0.3	0.52	0.22	-0.25	-0.25	0	0	0	0	0	0
5/13/2024 13:16	11803	FRAN_T2	1	2	1	1.8	0.6	-1.2	0.53	0.63	0	0	0	0	0	0
5/13/2024 13:17	46504	LOHA_T1	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
5/13/2024 13:17	46501	LOHA_T1	1	1	0	0.2	0.1	-0.1	-0.09	-0.11	1	1	0	1200	1200	0
5/13/2024 13:17	42902	MIDD_T2	6	6	0	0.25	0.35	0.1	-0.63	-0.61	1	1	0	600	600	0
5/13/2024 13:17	23203	HIRU_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/13/2024 13:17	23201	HIRU_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 13:17	46506	LOHA_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/13/2024 13:17	23202	HIRU_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
5/13/2024 13:18	42902	MIDD_T2	6	6	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/13/2024 13:18	58402	MORO_T1	0	0	0	0	0	0	-0.19	-0.22	2	2	0	1500	1500	0
5/13/2024 13:18	13502	MCMI_T1	1	5	4	2.6	0.72	-1.88	0	0	0	0	0	0	0	0
5/13/2024 13:18	13501	MCMI_T1	1	1	0	0.4	0.2	-0.2	0.05	0.04	0	0	0	0	0	0
5/13/2024 13:18	52501	PROG_T1	3	2	-1	0.5	0.55	0.05	0.5	0.52	1	1	0	300	300	0
5/13/2024 13:18	41303	FISH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 13:18	41301	FISH_T1	4	7	3	1.4	1.16	-0.24	-0.12	0	0	0	0	0	0	0
5/13/2024 13:18	42903	MIDD_T2	0	0	0	0	0	0	0.57	0.9	1	1	0	1200	1200	0
5/13/2024 13:21	16406	MOPO_T1	0	0	0	0	0	0	0.4	0.41	1	1	0	1200	1200	0
5/13/2024 13:21	16401	MOPO_T1	3	1	-2	0.27	0.3	0.03	0	0	0	0	0	0	0	0
5/13/2024 13:21	16402	MOPO_T1	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/13/2024 13:22	13701	SCHN_T2	7	4	-3	0.24	0.2	-0.04	0.08	0.08	1	1	0	600	600	0
5/13/2024 13:22	65603	QVIL_T2	0	0	0	0	0	0	0.56	0.64	0	0	0	0	0	0
5/13/2024 13:22	13704	SCHN_T2	5	6	1	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
5/13/2024 13:22	65602	QVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 13:23	67703	WERN_T2	4	2	-2	0.55	0.65	0.1	0	0	0	0	0	0	0	0
5/13/2024 13:23	67701	WERN_T2	3	2	-1	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
5/13/2024 13:23	67702	WERN_T2	3	2	-1	0.6	0.65	0.05	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 13:24	67701	WERN_T2	3	2	-1	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
5/13/2024 13:24	67702	WERN_T2	3	2	-1	0.6	0.65	0.05	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 13:24	67703	WERN_T2	4	2	-2	0.55	0.65	0.1	0	0	0	0	0	0	0	0
5/13/2024 13:24	64101	REFR_T1	6	5	-1	0.68	0.84	0.16	-0.09	-0.11	0	0	0	0	0	0
5/13/2024 13:25	45601	WOOL_T1	0	0	0	0	0	0	0.47	0.43	0	0	0	0	0	0
5/13/2024 13:25	45501	DERR_T2	0	1	1	0	0.3	0.3	0.67	0.59	2	2	0	1800	1800	0
5/13/2024 13:25	15701	TANN_T1	4	5	1	1.3	1.3	0	0	0	0	0	0	0	0	0
5/13/2024 13:25	67702	WERN_T2	3	2	-1	0.6	0.65	0.05	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 13:25	67703	WERN_T2	4	2	-2	0.55	0.65	0.1	0	0	0	0	0	0	0	0
5/13/2024 13:25	15704	TANN_T1	4	3	-1	0.23	0.27	0.04	-1.15	-1.11	0	0	0	0	0	0
5/13/2024 13:25	45602	WOOL_T1	9	9	0	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
5/13/2024 13:25	67701	WERN_T2	3	2	-1	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
5/13/2024 13:25	45502	DERR_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
5/13/2024 13:26	45601	WOOL_T1	0	0	0	0	0	0	0.47	0.43	0	0	0	0	0	0
5/13/2024 13:26	67701	WERN_T2	3	2	-1	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
5/13/2024 13:26	67703	WERN_T2	4	2	-2	0.55	0.65	0.1	0	0	0	0	0	0	0	0
5/13/2024 13:26	67702	WERN_T2	3	2	-1	0.6	0.65	0.05	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 13:26	45602	WOOL_T1	9	9	0	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
5/13/2024 13:27	15702	TANN_T2	1	1	0	0.1	0.2	0.1	0.5	0.6	0	0	0	0	0	0
5/13/2024 13:27	42501	ALTA_T2	0	0	0	0	0	0	0.32	0.32	2	2	0	1200	1200	0
5/13/2024 13:27	15703	TANN_T2	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
5/13/2024 13:28	23901	EFMO_T2	1	2	1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
5/13/2024 13:28	41801	GOCI_T2	279	231	-48	0.69	0.51	-0.18	0	0	0	0	0	0	0	0
5/13/2024 13:28	40703	FFLD_T1	4	4	0	0.6	0.68	0.08	0	0	0	0	0	0	0	0
5/13/2024 13:28	41802	GOCI_T2	5	2	-3	0.12	0.15	0.03	0	0	0	0	0	0	0	0
5/13/2024 13:28	40701	FFLD_T1	65	75	10	0.58	0.63	0.05	0	0	0	0	0	0	0	0
5/13/2024 13:28	23902	EFMO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 13:28	40702	FFLD_T1	99	86	-13	0.25	0.22	-0.03	-0.56	-0.57	1	1	0	1200	1200	0
5/13/2024 13:29	45502	DERR_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 13:29	45501	DERR_T2	0	1	1	0	0.3	0.3	0.67	0.59	2	2	0	1800	1800	0
5/13/2024 13:31	47104	MARL_T1	2	0	-2	0.25	0	-0.25	-0.81	-0.82	0	0	0	0	0	0
5/13/2024 13:31	47101	MARL_T1	2	1	-1	0.5	0.9	0.4	0	0	0	0	0	0	0	0
5/13/2024 13:33	47104	MARL_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
5/13/2024 13:33	47101	MARL_T1	2	1	-1	0.5	0.9	0.4	0	-0.01	0	0	0	0	0	0
5/13/2024 13:34	23901	EFMO_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/13/2024 13:35	53901	HALI_T2	3	4	1	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
5/13/2024 13:35	53902	HALI_T2	5	5	0	1.96	2	0.04	0	0	0	0	0	0	0	0
5/13/2024 13:35	53903	HALI_T2	20	19	-1	0.88	0.81	-0.07	-0.08	-0.07	0	0	0	0	0	0
5/13/2024 13:36	13503	MCMI_T2	13	2	-11	0.53	0.65	0.12	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 13:36	41902	REED_T1	0	0	0	0	0	0	1.15	1.15	0	0	0	0	0	0
5/13/2024 13:36	53902	HALI_T2	5	5	0	1.96	2	0.04	0	0	0	0	0	0	0	0
5/13/2024 13:36	53901	HALI_T2	3	4	1	0.6	0.48	-0.12	-0.98	-1.03	0	0	0	0	0	0
5/13/2024 13:36	53903	HALI_T2	20	19	-1	0.88	0.81	-0.07	0	0	0	0	0	0	0	0
5/13/2024 13:37	14601	SWHI_T1	2	1	-1	0.4	0.3	-0.1	-0.39	-0.39	0	0	0	0	0	0
5/13/2024 13:37	14602	SWHI_T1	2	1	-1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/13/2024 13:37	14603	SWHI_T1	9	3	-6	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
5/13/2024 13:38	14602	SWHI_T1	2	1	-1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/13/2024 13:38	14601	SWHI_T1	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/13/2024 13:38	14603	SWHI_T1	9	3	-6	0.5	0.43	-0.07	-0.98	-1.04	1	1	0	600	600	0
5/13/2024 13:39	67505	WEWI_T1	3	2	-1	0.37	0.35	-0.02	-0.17	-0.07	1	1	0	900	900	0
5/13/2024 13:39	67501	WEWI_T1	25	6	-19	0.31	0.67	0.36	0	0	0	0	0	0	0	0
5/13/2024 13:41	41902	REED_T1	0	0	0	0	0	0	1.15	1.14	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/13/2024 13:42	16102	BING_T2	5	6	1	0.8	0.18	-0.62	0	0	0	0	0	0	0	0
5/13/2024 13:42	16103	BING_T2	1	1	0	1	1.4	0.4	0.06	-0.01	1	1	0	600	600	0
5/13/2024 13:42	67605	WARW_T1	13	16	3	0.45	0.63	0.18	-1.03	-1.07	0	0	0	0	0	0
5/13/2024 13:42	67603	WARW_T1	2	2	0	0.65	0.8	0.15	0	0	0	0	0	0	0	0
5/13/2024 13:42	29401	BELT_T1	45	22	-23	0.19	0.12	-0.07	0	0	0	0	0	0	0	0
5/13/2024 13:42	67604	WARW_T1	0	0	0	0	0	0	0.93	0.28	0	0	0	0	0	0
5/13/2024 13:42	29402	BELT_T1	9	5	-4	1.48	2.12	0.64	0	0	0	0	0	0	0	0
5/13/2024 13:43	60902	DONG_T2	0	1	1	0	0.1	0.1	1.12	1.1	0	0	0	0	0	0
5/13/2024 13:43	41802	GOCI_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/13/2024 13:43	60904	DONG_T2	1	7	6	0.9	0.54	-0.36	0	0	0	0	0	0	0	0
5/13/2024 13:43	60901	DONG_T2	1	6	5	0.2	0.55	0.35	0	0	0	0	0	0	0	0
5/13/2024 13:43	41801	GOCI_T2	228	209	-19	0.51	0.47	-0.04	0	0	0	0	0	0	0	0
5/13/2024 13:43	60903	DONG_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/13/2024 13:44	62605	ENGL_T1	5	4	-1	0.52	0.4	-0.12	-0.72	-0.72	0	0	0	0	0	0
5/13/2024 13:44	62607	ENGL_T1	3	3	0	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
5/13/2024 13:44	62602	ENGL_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
5/13/2024 13:47	64902	MILL_T2	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
5/13/2024 13:47	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
5/13/2024 13:47	13502	MCMI_T1	3	0	-3	0.67	0	-0.67	0	0	0	0	0	0	0	0
5/13/2024 13:49	64904	MILL_T1	1	0	-1	0.1	0	-0.1	0.58	0.58	0	0	0	0	0	0
5/13/2024 13:49	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 13:49	65401	MARI_T1	1	1	0	0.3	0.1	-0.2	-0.27	-0.28	0	0	0	0	0	0
5/13/2024 13:49	41801	GOCI_T2	172	209	37	0.46	0.48	0.02	0	0	0	0	0	0	0	0
5/13/2024 13:49	58402	MORO_T1	0	0	0	0	0	0	-0.21	-0.17	2	2	0	1500	1500	0
5/13/2024 13:50	43103	SMIL_T2	25	18	-7	0.46	0.47	0.01	-0.88	-0.89	0	0	0	0	0	0
5/13/2024 13:50	43102	SMIL_T2	6	6	0	0.53	0.28	-0.25	0	0	0	0	0	0	0	0
5/13/2024 13:50	43101	SMIL_T2	5	3	-2	1.02	0.9	-0.12	0	0	0	0	0	0	0	0
5/13/2024 13:50	43105	SMIL_T2	2	2	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/13/2024 13:50	43104	SMIL_T2	2	1	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
5/13/2024 13:51	43103	SMIL_T2	25	18	-7	0.46	0.47	0.01	0	0	0	0	0	0	0	0
5/13/2024 13:51	43105	SMIL_T2	2	2	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/13/2024 13:51	43104	SMIL_T2	2	1	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
5/13/2024 13:51	43102	SMIL_T2	6	6	0	0.53	0.28	-0.25	0	0	0	0	0	0	0	0
5/13/2024 13:51	43101	SMIL_T2	5	3	-2	1.02	0.9	-0.12	-0.83	-0.79	0	0	0	0	0	0
5/13/2024 13:52	43802	SWIL_T1	2	0	-2	0.4	0	-0.4	-0.22	-0.23	1	1	0	600	600	0
5/13/2024 13:52	43801	SWIL_T1	2	2	0	2.75	2.75	0	0	0	0	0	0	0	0	0
5/13/2024 13:55	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 13:55	64101	REFR_T1	4	2	-2	0.95	1.2	0.25	-0.1	-0.1	0	0	0	0	0	0
5/13/2024 13:58	45501	DERR_T2	1	1	0	0.3	0.2	-0.1	0.58	0.62	2	2	0	1800	1800	0
5/13/2024 13:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 13:58	45502	DERR_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 14:05	58402	MORO_T1	0	0	0	0	0	0	-0.17	-0.14	2	2	0	1500	1500	0
5/13/2024 14:05	58401	MORO_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/13/2024 14:08	57401	SPAN_T1	3	6	3	1.2	0.65	-0.55	-0.76	-0.72	1	1	0	600	600	0
5/13/2024 14:08	57403	SPAN_T1	19	50	31	0.37	0.35	-0.02	0.02	0.05	0	0	0	0	0	0
5/13/2024 14:09	67605	WARW_T1	16	26	10	0.63	0.55	-0.08	-1.05	-1.03	0	0	0	0	0	0
5/13/2024 14:09	67603	WARW_T1	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/13/2024 14:14	67603	WARW_T1	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/13/2024 14:14	60102	COCA_T1	0	0	0	0	0	0	0.16	0.31	3	3	0	2100	2100	0
5/13/2024 14:14	60101	COCA_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/13/2024 14:14	67605	WARW_T1	16	26	10	0.63	0.55	-0.08	-1.05	-1.03	0	0	0	0	0	0
5/13/2024 14:15	64701	LITI_T1	0	0	0	0	0	0	0.55	0.46	0	0	0	0	0	0
5/13/2024 14:15	64704	LITI_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 14:20	42001	MNVL_T2	3	4	1	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
5/13/2024 14:20	42002	MNVL_T2	1	1	0	4.2	4.3	0.1	-0.12	0.04	0	0	0	0	0	0
5/13/2024 14:21	58401	MORO_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/13/2024 14:21	64101	REFR_T1	2	3	1	1.2	0.93	-0.27	-0.1	-0.09	0	0	0	0	0	0
5/13/2024 14:21	58402	MORO_T1	0	0	0	0	0	0	-0.14	-0.21	2	2	0	1500	1500	0
5/13/2024 14:22	64101	REFR_T1	2	3	1	1.2	0.93	-0.27	-0.1	-0.09	0	0	0	0	0	0
5/13/2024 14:24	46004	BERW_T2	0	0	0	0	0	0	0.4	0.22	0	0	0	0	0	0
5/13/2024 14:25	51109	CARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 14:25	51102	CARL_T1	3	3	0	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
5/13/2024 14:25	57402	SPAN_T2	1	1	0	0.1	0.1	0	-1.11	-1.13	0	0	0	0	0	0
5/13/2024 14:25	51101	CARL_T1	0	0	0	0	0	0	-0.9	-0.94	1	1	0	600	600	0
5/13/2024 14:26	64101	REFR_T1	2	3	1	1.2	0.93	-0.27	-0.09	-0.09	0	0	0	0	0	0
5/13/2024 14:26	44301	BEAV_T2	3	4	1	0.23	0.33	0.1	-0.23	0.8	2	1	-1	1500	600	-900
5/13/2024 14:27	64101	REFR_T1	2	3	1	1.2	0.93	-0.27	-0.09	-0.09	0	0	0	0	0	0
5/13/2024 14:28	57403	SPAN_T1	13	51	38	0.4	0.34	-0.06	0.05	0.06	0	0	0	0	0	0
5/13/2024 14:28	57401	SPAN_T1	3	6	3	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
5/13/2024 14:29	29402	BELT_T1	1	2	1	9	4.5	-4.5	0	0	0	0	0	0	0	0
5/13/2024 14:29	29401	BELT_T1	0	14	14	0	0.11	0.11	0	0	1	1	0	900	900	0
5/13/2024 14:32	52204	DEVO_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
5/13/2024 14:32	52202	DEVO_T2	4	3	-1	0.68	0.67	-0.01	-0.69	-0.68	0	0	0	0	0	0
5/13/2024 14:33	59003	MIFF_T1	1	2	1	1.6	0.1	-1.5	-0.23	-0.23	0	0	0	0	0	0
5/13/2024 14:33	59002	MIFF_T1	4	6	2	0.13	0.53	0.4	0	0	0	0	0	0	0	0
5/13/2024 14:33	59001	MIFF_T1	3	3	0	0.97	1.4	0.43	0	0	0	0	0	0	0	0
5/13/2024 14:35	48302	ORWI_T2	2	2	0	1.15	1.3	0.15	0.05	0.07	0	0	0	0	0	0
5/13/2024 14:35	20401	ASHF_T2	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/13/2024 14:35	20403	ASHF_T2	12	5	-7	0.28	0.48	0.2	1.1	1.19	0	0	0	0	0	0
5/13/2024 14:36	64101	REFR_T1	3	3	0	0.93	0.93	0	-0.09	-0.09	0	0	0	0	0	0
5/13/2024 14:36	48302	ORWI_T2	2	2	0	1.15	1.3	0.15	0.05	0.07	0	0	0	0	0	0
5/13/2024 14:37	58003	WCAR_T1	4	3	-1	0.55	0.63	0.08	0.87	0.89	0	0	0	0	0	0
5/13/2024 14:37	58001	WCAR_T1	6	6	0	0.73	0.67	-0.06	0	0	0	0	0	0	0	0
5/13/2024 14:37	64101	REFR_T1	3	3	0	0.93	0.93	0	-0.09	-0.09	0	0	0	0	0	0
5/13/2024 14:38	64101	REFR_T1	3	3	0	0.93	0.93	0	-0.09	-0.07	0	0	0	0	0	0
5/13/2024 14:38	52501	PROG_T1	2	2	0	0.7	0.6	-0.1	0.64	0.63	1	1	0	300	300	0
5/13/2024 14:40	14207	EALL_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/13/2024 14:40	14203	EALL_T1	0	1	1	0	0.5	0.5	-0.19	-0.06	1	1	0	1200	1200	0
5/13/2024 14:41	58003	WCAR_T1	4	3	-1	0.55	0.63	0.08	0.89	0.86	0	0	0	0	0	0
5/13/2024 14:41	58001	WCAR_T1	6	6	0	0.73	0.67	-0.06	0	0	0	0	0	0	0	0
5/13/2024 14:42	57501	LAWN_T3	1	2	1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
5/13/2024 14:42	57505	LAWN_T3	9	5	-4	0.21	0.12	-0.09	0	0	0	0	0	0	0	0
5/13/2024 14:42	57502	LAWN_T3	3	1	-2	0.2	0.1	-0.1	-0.38	-0.36	0	0	0	0	0	0
5/13/2024 14:43	57501	LAWN_T3	1	2	1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
5/13/2024 14:43	57502	LAWN_T3	3	1	-2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/13/2024 14:43	57505	LAWN_T3	9	5	-4	0.21	0.12	-0.09	1.21	1.25	0	0	0	0	0	0
5/13/2024 14:45	41801	GOCI_T2	255	274	19	0.55	0.68	0.13	0	0	0	0	0	0	0	0
5/13/2024 14:45	41802	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 14:46	56501	ROCK_T2	6	9	3	0.48	0.56	0.08	0	0	0	0	0	0	0	0
5/13/2024 14:46	56503	ROCK_T2	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
5/13/2024 14:46	56504	ROCK_T2	4	5	1	0.4	0.34	-0.06	0	0	0	0	0	0	0	0
5/13/2024 14:51	48302	ORWI_T2	2	2	0	1.25	1.3	0.05	0.14	0.08	0	0	0	0	0	0
5/13/2024 14:52	48301	ORWI_T1	2	2	0	5.6	5.6	0	0	0	1	1	0	900	900	0
5/13/2024 14:55	61301	EARL_T1	0	0	0	0	0	0	-1.4	-1.45	2	2	0	1800	1800	0
5/13/2024 14:58	52204	DEVO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 14:58	44301	BEAV_T2	1	6	5	0.2	0.25	0.05	0.82	0.77	1	1	0	600	600	0
5/13/2024 14:58	52202	DEVO_T2	2	5	3	0.75	0.62	-0.13	-0.66	-0.67	0	0	0	0	0	0
5/13/2024 14:59	67605	WARW_T1	17	39	22	0.65	0.6	-0.05	-0.99	-1	0	0	0	0	0	0
5/13/2024 14:59	41205	KENM_T2	0	0	0	0	0	0	-0.82	-0.86	1	1	0	600	600	0
5/13/2024 14:59	61302	EARL_T1	0	0	0	0	0	0	-0.23	0.64	3	2	-1	2700	1800	-900
5/13/2024 14:59	41202	KENM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 14:59	67603	WARW_T1	3	3	0	0.67	0.87	0.2	0	0	0	0	0	0	0	0
5/13/2024 15:00	11805	FRAN_T1	3	3	0	0.5	0.63	0.13	-1	-1.04	1	1	0	1200	1200	0
5/13/2024 15:00	11804	FRAN_T1	4	4	0	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
5/13/2024 15:00	40101	HUNT_T2	0	1	1	0	0.1	0.1	-0.36	-0.37	0	0	0	0	0	0
5/13/2024 15:01	60605	NCOL_T2	1	4	3	0.2	0.25	0.05	-1.18	-1.16	0	0	0	0	0	0
5/13/2024 15:01	41802	GOCI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 15:01	42902	MIDD_T2	7	6	-1	0.49	0.58	0.09	0	0	0	0	0	0	0	0
5/13/2024 15:01	42903	MIDD_T2	2	2	0	0.15	0.1	-0.05	0.53	0.79	1	1	0	1200	1200	0
5/13/2024 15:01	41801	GOCI_T2	257	288	31	0.54	0.69	0.15	0	0	0	0	0	0	0	0
5/13/2024 15:02	41802	GOCI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 15:02	41801	GOCI_T2	257	288	31	0.54	0.69	0.15	0	0	0	0	0	0	0	0
5/13/2024 15:04	67605	WARW_T1	27	38	11	0.62	0.62	0	-0.99	-1	0	0	0	0	0	0
5/13/2024 15:04	67603	WARW_T1	3	3	0	0.77	0.87	0.1	0	0	0	0	0	0	0	0
5/13/2024 15:07	58003	WCAR_T1	3	6	3	0.5	0.67	0.17	0.86	0.91	0	0	0	0	0	0
5/13/2024 15:07	58001	WCAR_T1	6	7	1	0.6	0.87	0.27	0	0	0	0	0	0	0	0
5/13/2024 15:08	42201	SHEN_T2	1	1	0	0.7	0.1	-0.6	0.07	0.11	1	1	0	600	600	0
5/13/2024 15:10	49804	UNIV_T1	1	1	0	0.6	0.5	-0.1	0.74	0.71	0	0	0	0	0	0
5/13/2024 15:11	58006	WCAR_T2	0	0	0	0	0	0	0.82	0.78	0	0	0	0	0	0
5/13/2024 15:11	58002	WCAR_T2	2	4	2	0.15	0.23	0.08	0	0	0	0	0	0	0	0
5/13/2024 15:14	12003	HATF_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/13/2024 15:14	50201	HARR_T3	2	1	-1	0.25	0.6	0.35	-0.76	-0.76	1	1	0	1200	1200	0
5/13/2024 15:14	12006	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 15:14	67605	WARW_T1	27	38	11	0.62	0.62	0	-1	-0.98	0	0	0	0	0	0
5/13/2024 15:14	50105	HARR_T3	6	6	0	6.5	6.15	-0.35	0	0	0	0	0	0	0	0
5/13/2024 15:14	67603	WARW_T1	3	3	0	0.77	0.87	0.1	0	0	0	0	0	0	0	0
5/13/2024 15:14	50103	HARR_T3	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/13/2024 15:14	12002	HATF_T1	1	1	0	1.1	1.1	0	0.46	0.37	0	0	0	0	0	0
5/13/2024 15:14	50107	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 15:16	41801	GOCI_T2	253	283	30	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
5/13/2024 15:16	41802	GOCI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/13/2024 15:17	62602	ENGL_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/13/2024 15:17	56503	ROCK_T2	2	2	0	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
5/13/2024 15:17	62607	ENGL_T1	2	2	0	0.35	0.25	-0.1	-0.73	-0.74	0	0	0	0	0	0
5/13/2024 15:17	62605	ENGL_T1	6	5	-1	0.33	0.34	0.01	0	0	0	0	0	0	0	0
5/13/2024 15:17	56501	ROCK_T2	9	7	-2	0.56	0.4	-0.16	0	0	0	0	0	0	0	0
5/13/2024 15:17	56504	ROCK_T2	4	3	-1	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
5/13/2024 15:18	41801	GOCI_T2	253	283	30	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
5/13/2024 15:18	41802	GOCI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/13/2024 15:19	64802	MONE_T2	11	10	-1	0.38	0.37	-0.01	0.2	0.2	0	0	0	0	0	0
5/13/2024 15:19	67605	WARW_T1	38	32	-6	0.61	0.62	0.01	-1	-0.98	0	0	0	0	0	0
5/13/2024 15:19	51704	OBER_T1	3	3	0	0.33	0.33	0	-1.37	-1.42	1	1	0	1200	1200	0
5/13/2024 15:19	64801	MONE_T2	4	3	-1	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
5/13/2024 15:19	67603	WARW_T1	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0	0
5/13/2024 15:19	51702	OBER_T1	12	8	-4	0.93	1.15	0.22	0	0	0	0	0	0	0	0
5/13/2024 15:20	51701	OBER_T2	4	2	-2	0.33	0.25	-0.08	-1.28	-1.3	1	1	0	1200	1200	0
5/13/2024 15:21	59001	MIFF_T1	3	4	1	1.07	0.93	-0.14	0	0	0	0	0	0	0	0
5/13/2024 15:21	59003	MIFF_T1	1	2	1	0.2	0.6	0.4	-0.07	-0.3	0	0	0	0	0	0
5/13/2024 15:21	51701	OBER_T2	4	2	-2	0.33	0.25	-0.08	-1.28	-1.3	1	1	0	1200	1200	0
5/13/2024 15:21	59002	MIFF_T1	6	6	0	0.5	0.72	0.22	0	0	0	0	0	0	0	0
5/13/2024 15:22	50105	HARR_T3	6	6	0	6.22	6.3	0.08	0	0	0	0	0	0	0	0
5/13/2024 15:22	27503	WEIS_T2	5	4	-1	0.28	0.3	0.02	0	0	0	0	0	0	0	0
5/13/2024 15:22	50201	HARR_T3	1	1	0	0.6	0.3	-0.3	-0.76	-0.76	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/13/2024 15:22	50103	HARR_T3	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/13/2024 15:22	27502	WEIS_T2	0	1	1	0	0.1	0.1	-1.09	-0.92	0	0	0	0	0	0
5/13/2024 15:22	60101	COCA_T1	3	3	0	0.57	0.5	-0.07	0.39	0.33	0	0	0	0	0	0
5/13/2024 15:23	51305	WIND_T1	3	2	-1	0.67	0.65	-0.02	0	0	0	0	0	0	0	0
5/13/2024 15:23	51304	WIND_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
5/13/2024 15:23	51301	WIND_T1	8	6	-2	0.54	0.53	-0.01	0	0	0	0	0	0	0	0
5/13/2024 15:23	51306	WIND_T2	3	4	1	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
5/13/2024 15:23	51302	WIND_T2	3	1	-2	0.17	0.7	0.53	0	0	0	0	0	0	0	0
5/13/2024 15:23	51303	WIND_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/13/2024 15:24	54601	SUMM_T2	10	10	0	0.75	0.54	-0.21	0	0	0	0	0	0	0	0
5/13/2024 15:24	54603	SUMM_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/13/2024 15:24	54602	SUMM_T2	11	10	-1	0.21	0.24	0.03	-2.33	-2.32	1	1	0	600	600	0
5/13/2024 15:25	51101	CARL_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/13/2024 15:25	51108	CARL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 15:25	51109	CARL_T1	1	1	0	0.2	0.2	0	-0.96	-0.96	1	1	0	1200	1200	0
5/13/2024 15:25	51102	CARL_T1	6	6	0	0.37	0.32	-0.05	0	0	0	0	0	0	0	0
5/13/2024 15:25	51306	WIND_T2	3	4	1	0.43	0.33	-0.1	0.24	0.27	0	0	0	0	0	0
5/13/2024 15:25	51302	WIND_T2	3	1	-2	0.17	0.7	0.53	0	0	0	0	0	0	0	0
5/13/2024 15:26	67603	WARW_T1	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0	0
5/13/2024 15:26	51102	CARL_T1	6	6	0	0.37	0.32	-0.05	0	0	0	0	0	0	0	0
5/13/2024 15:26	51108	CARL_T1	0	2	2	0	0.1	0.1	-0.09	-0.54	1	1	0	600	600	0
5/13/2024 15:26	67605	WARW_T1	38	32	-6	0.61	0.62	0.01	-0.98	-0.98	0	0	0	0	0	0
5/13/2024 15:26	51305	WIND_T1	3	2	-1	0.67	0.65	-0.02	0	0	0	0	0	0	0	0
5/13/2024 15:26	51101	CARL_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/13/2024 15:26	51301	WIND_T1	8	6	-2	0.54	0.53	-0.01	0	0	0	0	0	0	0	0
5/13/2024 15:26	51303	WIND_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/13/2024 15:26	51109	CARL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/13/2024 15:27	43302	WATS_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
5/13/2024 15:27	67604	WARW_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
5/13/2024 15:27	43301	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/13/2024 15:27	67605	WARW_T1	38	32	-6	0.61	0.62	0.01	0	0	0	0	0	0	0	0
5/13/2024 15:27	67603	WARW_T1	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0	0
5/13/2024 15:28	62602	ENGL_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/13/2024 15:28	62605	ENGL_T1	6	5	-1	0.33	0.34	0.01	0	0	0	0	0	0	0	0
5/13/2024 15:28	62607	ENGL_T1	2	2	0	0.35	0.25	-0.1	-0.74	-0.72	0	0	0	0	0	0
5/13/2024 15:29	67603	WARW_T1	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0	0
5/13/2024 15:29	67605	WARW_T1	38	32	-6	0.61	0.62	0.01	-0.98	-0.98	0	0	0	0	0	0
5/13/2024 15:30	67604	WARW_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
5/13/2024 15:30	67603	WARW_T1	3	2	-1	0.67	1.05	0.38	0	0	0	0	0	0	0	0
5/13/2024 15:30	67605	WARW_T1	32	29	-3	0.61	0.62	0.01	0	0	0	0	0	0	0	0
5/13/2024 15:31	56501	ROCK_T2	7	6	-1	0.39	0.28	-0.11	0	0	0	0	0	0	0	0
5/13/2024 15:31	56504	ROCK_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
5/13/2024 15:31	56503	ROCK_T2	2	1	-1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
5/13/2024 15:33	56503	ROCK_T2	2	1	-1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
5/13/2024 15:33	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.39	-0.49	0	0	0	0	0	0
5/13/2024 15:33	56504	ROCK_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
5/13/2024 15:33	56501	ROCK_T2	7	6	-1	0.39	0.28	-0.11	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 15:34	67603	WARW_T1	3	2	-1	0.67	1.05	0.38	0	0	0	0	0	0	0	0
5/13/2024 15:34	67605	WARW_T1	32	29	-3	0.61	0.62	0.01	-0.98	-0.98	0	0	0	0	0	0
5/13/2024 15:35	52004	LING_T2	4	5	1	0.63	0.38	-0.25	0.1	0.11	0	0	0	0	0	0
5/13/2024 15:35	57306	MOAL_T2	2	2	0	0.3	0.2	-0.1	-3.13	-3.12	1	1	0	1200	1200	0
5/13/2024 15:35	57303	MOAL_T2	1	1	0	7.5	7.2	-0.3	0	0	0	0	0	0	0	0
5/13/2024 15:35	57304	MOAL_T2	8	7	-1	0.33	0.26	-0.07	0	0	0	0	0	0	0	0
5/13/2024 15:36	59003	MIFF_T1	1	2	1	0.6	0.7	0.1	-0.3	-0.09	0	0	0	0	0	0
5/13/2024 15:36	59001	MIFF_T1	4	3	-1	0.85	1.2	0.35	0	0	0	0	0	0	0	0
5/13/2024 15:36	59002	MIFF_T1	6	6	0	0.7	0.68	-0.02	0	0	0	0	0	0	0	0
5/13/2024 15:39	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 15:39	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 15:39	43302	WATS_T2	4	4	0	0.18	0.2	0.02	0	0	0	0	0	0	0	0
5/13/2024 15:40	46001	BERW_T1	0	1	1	0	0.2	0.2	-0.14	-0.3	0	0	0	0	0	0
5/13/2024 15:40	46005	BERW_T1	1	0	-1	3.4	0	-3.4	0	0	0	0	0	0	0	0
5/13/2024 15:40	64101	REFR_T1	3	2	-1	0.6	0.6	0	-0.08	-0.03	0	0	0	0	0	0
5/13/2024 15:42	46001	BERW_T1	0	1	1	0	0.2	0.2	-0.14	-0.3	0	0	0	0	0	0
5/13/2024 15:42	43302	WATS_T2	4	4	0	0.18	0.2	0.02	0	0	0	0	0	0	0	0
5/13/2024 15:42	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 15:42	46005	BERW_T1	1	0	-1	3.4	0	-3.4	0	0	0	0	0	0	0	0
5/13/2024 15:42	53501	EVIL_T2	5	5	0	0.56	0.58	0.02	0	0	0	0	0	0	0	0
5/13/2024 15:42	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 15:42	53502	EVIL_T2	0	0	0	0	0	0	0.01	0.55	2	1	-1	1200	600	-600
5/13/2024 15:43	46005	BERW_T1	1	0	-1	3.4	0	-3.4	0	0	0	0	0	0	0	0
5/13/2024 15:43	46001	BERW_T1	0	1	1	0	0.2	0.2	-0.29	-0.59	0	0	0	0	0	0
5/13/2024 15:43	67605	WARW_T1	32	29	-3	0.61	0.62	0.01	-0.98	-0.96	0	0	0	0	0	0
5/13/2024 15:43	67603	WARW_T1	3	2	-1	0.67	1.05	0.38	0	0	0	0	0	0	0	0
5/13/2024 15:44	67603	WARW_T1	3	2	-1	0.67	1.05	0.38	0	0	0	0	0	0	0	0
5/13/2024 15:44	67605	WARW_T1	32	29	-3	0.61	0.62	0.01	-0.98	-0.96	0	0	0	0	0	0
5/13/2024 15:44	41202	KENM_T2	1	1	0	0.3	0.2	-0.1	0.6	0.66	0	0	0	0	0	0
5/13/2024 15:49	67603	WARW_T1	2	2	0	1.05	0.95	-0.1	0	0	0	0	0	0	0	0
5/13/2024 15:49	67605	WARW_T1	29	22	-7	0.62	0.63	0.01	-0.98	-0.96	0	0	0	0	0	0
5/13/2024 15:50	59301	MCAL_T1	5	4	-1	0.9	1.03	0.13	-1.51	-1.48	1	1	0	600	600	0
5/13/2024 15:51	47403	PENS_T1	6	5	-1	0.47	0.54	0.07	0	0	0	0	0	0	0	0
5/13/2024 15:51	47401	PENS_T1	4	3	-1	0.7	1.03	0.33	2.23	2.08	0	0	0	0	0	0
5/13/2024 15:51	59001	MIFF_T1	3	4	1	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
5/13/2024 15:51	59003	MIFF_T1	2	3	1	0.7	1.23	0.53	-0.09	-0.16	0	0	0	0	0	0
5/13/2024 15:51	47402	PENS_T1	1	3	2	0.2	0.45	0.25	0	0	0	0	0	0	0	0
5/13/2024 15:51	59002	MIFF_T1	6	6	0	0.68	0.65	-0.03	0	0	0	0	0	0	0	0
5/13/2024 15:53	47401	PENS_T1	4	3	-1	0.7	1.03	0.33	1.12	1.04	0	0	0	0	0	0
5/13/2024 15:53	47402	PENS_T1	1	3	2	0.2	0.45	0.25	0	0	0	0	0	0	0	0
5/13/2024 15:53	47403	PENS_T1	6	5	-1	0.47	0.54	0.07	0	0	0	0	0	0	0	0
5/13/2024 15:56	10705	CATA_T2	0	0	0	0	0	0	-0.97	-0.96	1	1	0	900	900	0
5/13/2024 15:56	10702	CATA_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/13/2024 15:57	41502	FAIR_T2	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
5/13/2024 15:57	41504	FAIR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 15:58	51101	CARL_T1	1	1	0	0.5	0.3	-0.2	-0.9	-0.85	1	1	0	600	600	0
5/13/2024 15:58	51109	CARL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/13/2024 15:58	51108	CARL_T1	2	3	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/13/2024 15:58	51102	CARL_T1	6	7	1	0.32	0.4	0.08	0	0	0	0	0	0	0	0
5/13/2024 15:59	67603	WARW_T1	2	2	0	1.05	0.95	-0.1	0	0	0	0	0	0	0	0
5/13/2024 15:59	10702	CATA_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/13/2024 15:59	10701	CATA_T2	0	0	0	0	0	0	-0.73	-0.73	1	1	0	1200	1200	0
5/13/2024 15:59	67605	WARW_T1	29	22	-7	0.62	0.63	0.01	-0.96	-0.96	0	0	0	0	0	0
5/13/2024 16:00	10702	CATA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/13/2024 16:00	59301	MCAL_T1	4	6	2	0.88	0.83	-0.05	-1.48	-1.57	1	1	0	600	600	0
5/13/2024 16:00	10705	CATA_T2	0	0	0	0	0	0	-1.94	-1.92	2	2	0	1800	1800	0
5/13/2024 16:04	67605	WARW_T1	19	24	5	0.63	0.62	-0.01	-0.96	-0.96	0	0	0	0	0	0
5/13/2024 16:04	67603	WARW_T1	2	2	0	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
5/13/2024 16:06	64101	REFR_T1	2	2	0	0.6	0.55	-0.05	-0.03	-0.01	0	0	0	0	0	0
5/13/2024 16:09	62602	ENGL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/13/2024 16:09	62607	ENGL_T1	1	1	0	0.2	0.1	-0.1	-0.7	-0.71	0	0	0	0	0	0
5/13/2024 16:09	62605	ENGL_T1	2	1	-1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/13/2024 16:13	53901	HALI_T2	4	3	-1	0.38	0.4	0.02	0	0	0	0	0	0	0	0
5/13/2024 16:13	53903	HALI_T2	11	9	-2	0.84	0.84	0	0	0	0	0	0	0	0	0
5/13/2024 16:13	53902	HALI_T2	4	3	-1	1.73	2.07	0.34	-0.14	-0.17	0	0	0	0	0	0
5/13/2024 16:14	67603	WARW_T1	2	2	0	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
5/13/2024 16:14	67605	WARW_T1	19	24	5	0.63	0.62	-0.01	-0.96	-0.92	0	0	0	0	0	0
5/13/2024 16:19	67603	WARW_T1	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
5/13/2024 16:19	57303	MOAL_T2	1	1	0	7.1	7.2	0.1	0	0	0	0	0	0	0	0
5/13/2024 16:19	67605	WARW_T1	22	23	1	0.61	0.62	0.01	-0.96	-0.92	0	0	0	0	0	0
5/13/2024 16:19	57304	MOAL_T2	3	1	-2	0.17	0.6	0.43	-0.44	-0.42	0	0	0	0	0	0
5/13/2024 16:20	57303	MOAL_T2	1	1	0	7.1	7.2	0.1	0	0	0	0	0	0	0	0
5/13/2024 16:20	57304	MOAL_T2	3	1	-2	0.17	0.6	0.43	-0.44	-0.42	0	0	0	0	0	0
5/13/2024 16:28	41502	FAIR_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
5/13/2024 16:29	67603	WARW_T1	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
5/13/2024 16:29	67605	WARW_T1	22	23	1	0.61	0.62	0.01	-0.92	-0.95	0	0	0	0	0	0
5/13/2024 16:31	44503	HAMI_T2	0	0	0	0	0	0	-1.71	-1.67	1	1	0	1200	1200	0
5/13/2024 16:31	44502	HAMI_T2	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
5/13/2024 16:34	67605	WARW_T1	23	15	-8	0.62	0.56	-0.06	-0.92	-0.95	0	0	0	0	0	0
5/13/2024 16:34	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 16:34	56501	ROCK_T2	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
5/13/2024 16:34	67603	WARW_T1	2	1	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
5/13/2024 16:38	64101	REFR_T1	2	1	-1	0.4	0.4	0	-0.02	-0.04	0	0	0	0	0	0
5/13/2024 16:39	42201	SHEN_T2	0	0	0	0	0	0	0.41	0.41	1	0	-1	600	0	-600
5/13/2024 16:44	40101	HUNT_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
5/13/2024 16:44	41502	FAIR_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
5/13/2024 16:44	67605	WARW_T1	23	15	-8	0.62	0.56	-0.06	-0.95	-0.89	0	0	0	0	0	0
5/13/2024 16:44	67603	WARW_T1	2	1	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
5/13/2024 16:47	50503	MECH_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/13/2024 16:47	50506	MECH_T1	1	0	-1	0.3	0	-0.3	0.34	0.08	0	0	0	0	0	0
5/13/2024 16:47	50501	MECH_T1	4	4	0	0.63	0.83	0.2	0	0	0	0	0	0	0	0
5/13/2024 16:47	50502	MECH_T1	1	1	0	2	2.3	0.3	0	0	0	0	0	0	0	0
5/13/2024 16:49	67605	WARW_T1	15	15	0	0.56	0.39	-0.17	-0.95	-0.89	0	0	0	0	0	0
5/13/2024 16:49	67603	WARW_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
5/13/2024 16:51	60502	NMAN_T2	122	426	304	0.22	0.31	0.09	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 16:51	60501	NMAN_T2	214	429	215	0.36	0.41	0.05	0	0	0	0	0	0	0	0
5/13/2024 16:51	60504	NMAN_T2	4	29	25	0.8	0.28	-0.52	0	0	0	0	0	0	0	0
5/13/2024 16:52	60501	NMAN_T2	214	429	215	0.36	0.41	0.05	0	0	0	0	0	0	0	0
5/13/2024 16:52	60502	NMAN_T2	122	426	304	0.22	0.31	0.09	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 16:52	60504	NMAN_T2	4	29	25	0.8	0.28	-0.52	0	0	0	0	0	0	0	0
5/13/2024 16:53	60504	NMAN_T2	4	29	25	0.8	0.28	-0.52	1.05	1.06	0	0	0	0	0	0
5/13/2024 16:53	60502	NMAN_T2	122	426	304	0.22	0.31	0.09	-0.01	-0.1	0	0	0	0	0	0
5/13/2024 16:53	64101	REFR_T1	1	0	-1	0.4	0	-0.4	-0.04	-0.01	0	0	0	0	0	0
5/13/2024 16:53	60501	NMAN_T2	214	429	215	0.36	0.41	0.05	0	0	0	0	0	0	0	0
5/13/2024 16:55	43801	SWIL_T1	13	15	2	0.61	0.63	0.02	0	0	0	0	0	0	0	0
5/13/2024 16:55	42701	AUGU_T1	1	1	0	0.5	0.4	-0.1	0	0	2	2	0	1800	1800	0
5/13/2024 16:55	43802	SWIL_T1	1	1	0	0.6	0.3	-0.3	-0.16	-0.17	1	1	0	600	600	0
5/13/2024 16:59	67603	WARW_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
5/13/2024 16:59	67605	WARW_T1	15	15	0	0.56	0.39	-0.17	-0.89	-0.9	0	0	0	0	0	0
5/13/2024 17:01	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 17:01	56501	ROCK_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/13/2024 17:02	51002	NHAR_T1	1	1	0	0.9	1.4	0.5	0	0	0	0	0	0	0	0
5/13/2024 17:02	51004	NHAR_T1	14	15	1	0.97	1.31	0.34	0	0	0	0	0	0	0	0
5/13/2024 17:02	51003	NHAR_T1	0	6	6	0	0.18	0.18	-3.2	-3.28	1	1	0	1200	1200	0
5/13/2024 17:04	67605	WARW_T1	10	15	5	0.39	0.37	-0.02	-0.89	-0.9	0	0	0	0	0	0
5/13/2024 17:04	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/13/2024 17:07	50502	MECH_T1	1	1	0	2	2.3	0.3	0	0	0	0	0	0	0	0
5/13/2024 17:07	50501	MECH_T1	4	4	0	0.7	0.83	0.13	0.63	0.44	0	0	0	0	0	0
5/13/2024 17:08	13704	SCHN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 17:08	13701	SCHN_T2	0	0	0	0	0	0	0.08	0.16	1	1	0	600	600	0
5/13/2024 17:10	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 17:11	45501	DERR_T2	1	1	0	0.5	0.3	-0.2	0.54	0.5	2	2	0	1800	1800	0
5/13/2024 17:14	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 17:14	67605	WARW_T1	10	15	5	0.39	0.37	-0.02	-0.9	-0.93	0	0	0	0	0	0
5/13/2024 17:14	45501	DERR_T2	1	1	0	0.5	0.3	-0.2	0.54	0.5	2	2	0	1800	1800	0
5/13/2024 17:15	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 17:19	67605	WARW_T1	15	10	-5	0.37	0.3	-0.07	-0.9	-0.93	0	0	0	0	0	0
5/13/2024 17:25	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 17:29	67605	WARW_T1	15	10	-5	0.37	0.3	-0.07	-0.93	-0.91	0	0	0	0	0	0
5/13/2024 17:34	67605	WARW_T1	9	11	2	0.27	0.3	0.03	-0.93	-0.91	0	0	0	0	0	0
5/13/2024 17:39	65001	NEFF_T2	0	0	0	0	0	0	-0.48	-0.41	1	1	0	1200	1200	0
5/13/2024 17:39	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 17:43	63305	GREE_T1	1	1	0	0.2	0.1	-0.1	-1.99	-2.09	1	1	0	900	900	0
5/13/2024 17:44	67605	WARW_T1	9	11	2	0.27	0.3	0.03	-0.91	-0.92	0	0	0	0	0	0
5/13/2024 17:46	63305	GREE_T1	1	1	0	0.1	0.1	0	-1.99	-2.09	1	1	0	900	900	0
5/13/2024 17:47	40101	HUNT_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
5/13/2024 17:49	67605	WARW_T1	9	11	2	0.29	0.3	0.01	-0.91	-0.92	0	0	0	0	0	0
5/13/2024 17:49	56501	ROCK_T2	2	1	-1	0.15	0	-0.15	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 17:51	58401	MORO_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/13/2024 17:51	58402	MORO_T1	1	0	-1	0.3	0	-0.3	-0.95	-0.89	3	3	0	2400	2400	0
5/13/2024 17:57	24101	EHAZ_T1	7	0	-7	0.56	0	-0.56	0	0	0	0	0	0	0	0
5/13/2024 17:57	24102	EHAZ_T1	0	1	1	0	0	0	-0.29	-0.29	0	0	0	0	0	0
5/13/2024 17:57	24105	EHAZ_T1	4	4	0	6.15	6.08	-0.07	0	0	0	0	0	0	0	0
5/13/2024 17:59	67605	WARW_T1	9	11	2	0.29	0.3	0.01	-0.92	-0.92	0	0	0	0	0	0
5/13/2024 18:02	64904	MILL_T1	0	1	1	0	0.1	0.1	0.73	0.73	0	0	0	0	0	0
5/13/2024 18:02	64901	MILL_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 18:04	67605	WARW_T1	11	4	-7	0.3	0.25	-0.05	-0.92	-0.92	0	0	0	0	0	0
5/13/2024 18:07	66901	SHIL_T2	0	0	0	0	0	0	-0.2	-0.13	0	0	0	0	0	0
5/13/2024 18:07	66903	SHIL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/13/2024 18:12	62104	ELAN_T1	0	0	0	0	0	0	0.44	0.54	2	2	0	1500	1500	0
5/13/2024 18:12	41801	GOCI_T2	127	25	-102	0.29	0.14	-0.15	0	0	0	0	0	0	0	0
5/13/2024 18:12	41802	GOCI_T2	1	5	4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
5/13/2024 18:13	62104	ELAN_T1	0	0	0	0	0	0	0.44	0.54	2	2	0	1500	1500	0
5/13/2024 18:14	62104	ELAN_T1	0	0	0	0	0	0	0.44	0.54	2	2	0	1500	1500	0
5/13/2024 18:33	60605	NCOL_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
5/13/2024 18:33	60602	NCOL_T2	0	0	0	0	0	0	-0.48	-0.48	1	1	0	1200	1200	0
5/13/2024 18:35	60605	NCOL_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
5/13/2024 18:36	61404	SLIT_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
5/13/2024 18:39	61404	SLIT_T1	0	0	0	0	0	0	-0.02	0.01	0	0	0	0	0	0
5/13/2024 18:44	62607	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 18:44	62605	ENGL_T1	0	0	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
5/13/2024 18:47	65401	MARI_T1	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
5/13/2024 18:48	65401	MARI_T1	0	0	0	0	0	0	1.22	1.18	0	0	0	0	0	0
5/13/2024 18:51	14401	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 18:51	14404	SSLA_T1	1	2	1	5.7	2.85	-2.85	0.04	0.04	0	0	0	0	0	0
5/13/2024 18:52	52501	PROG_T1	0	0	0	0	0	0	0.62	0.59	1	1	0	300	300	0
5/13/2024 18:56	14401	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 18:56	14404	SSLA_T1	1	2	1	5.7	2.85	-2.85	0.04	0.01	0	0	0	0	0	0
5/13/2024 19:01	56501	ROCK_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 19:01	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 19:02	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 19:02	12006	HATF_T1	0	0	0	0	0	0	-0.1	-0.02	1	1	0	1200	1200	0
5/13/2024 19:02	56501	ROCK_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 19:02	12002	HATF_T1	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
5/13/2024 19:02	64902	MILL_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
5/13/2024 19:03	57303	MOAL_T2	1	1	0	7.6	7.5	-0.1	0	0	0	0	0	0	0	0
5/13/2024 19:03	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 19:03	57304	MOAL_T2	1	1	0	0.3	0.5	0.2	-0.4	-0.39	0	0	0	0	0	0
5/13/2024 19:12	62102	ELAN_T1	0	0	0	0	0	0	0.84	0.78	0	0	0	0	0	0
5/13/2024 19:13	62102	ELAN_T1	0	0	0	0	0	0	0.84	0.78	0	0	0	0	0	0
5/13/2024 19:16	41502	FAIR_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
5/13/2024 19:20	50103	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 19:20	50105	HARR_T3	6	6	0	6.48	6.22	-0.26	0	0	0	0	0	0	0	0
5/13/2024 19:20	50201	HARR_T3	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/13/2024 19:20	50107	HARR_T3	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
5/13/2024 19:22	61302	EARL_T1	0	0	0	0	0	0	0	-0.03	2	2	0	1800	1800	0
5/13/2024 19:28	29402	BELT_T1	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
5/13/2024 19:28	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/13/2024 19:33	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 19:34	47103	MARL_T2	1	0	-1	0.1	0	-0.1	-1.15	-1.23	0	0	0	0	0	0
5/13/2024 19:34	55001	NEWP_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
5/13/2024 19:34	47102	MARL_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 19:34	55002	NEWP_T1	5	4	-1	0.24	0.35	0.11	0	0	0	0	0	0	0	0
5/13/2024 19:49	52502	PROG_T2	0	0	0	0	0	0	-0.46	0.45	1	0	-1	900	0	-900
5/13/2024 19:49	52503	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 19:50	52502	PROG_T2	0	0	0	0	0	0	-0.46	0.45	1	0	-1	900	0	-900
5/13/2024 19:50	52503	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 19:52	52502	PROG_T2	0	0	0	0	0	0	-0.46	0.45	1	0	-1	900	0	-900
5/13/2024 19:52	52503	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 20:10	59101	WALK_T2	0	0	0	0	0	0	1.39	1.5	0	0	0	0	0	0
5/13/2024 20:12	59101	WALK_T2	0	0	0	0	0	0	1.39	1.5	0	0	0	0	0	0
5/13/2024 20:16	64702	LITI_T2	0	0	0	0	0	0	-0.41	-0.49	0	0	0	0	0	0
5/13/2024 20:21	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 20:25	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 20:27	15001	BLMO_T1	4	2	-2	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
5/13/2024 20:38	46301	ROHR_T1	242	250	8	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
5/13/2024 20:38	46302	ROHR_T1	90	34	-56	0.27	0.4	0.13	0.32	0.34	0	0	0	0	0	0
5/13/2024 20:40	10805	CHHI_T2	1	1	0	8.2	8.2	0	-0.88	-0.92	0	0	0	0	0	0
5/13/2024 20:43	50103	HARR_T3	0	2	2	0	0.65	0.65	-0.62	-0.64	1	1	0	1200	1200	0
5/13/2024 20:43	61102	BERK_T5	0	0	0	0	0	0	1.11	1.17	1	1	0	300	300	0
5/13/2024 20:43	50105	HARR_T3	6	6	0	6.32	5.98	-0.34	0	0	0	0	0	0	0	0
5/13/2024 20:43	50202	HARR_T3	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/13/2024 20:43	43301	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/13/2024 20:43	50201	HARR_T3	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
5/13/2024 20:43	43302	WATS_T2	4	4	0	0.2	0.23	0.03	0	0	0	0	0	0	0	0
5/13/2024 20:43	45502	DERR_T2	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
5/13/2024 20:45	10805	CHHI_T2	1	1	0	8.2	8	-0.2	-0.88	-0.92	0	0	0	0	0	0
5/13/2024 20:50	43202	MVIL_T2	93	96	3	1.43	0.89	-0.54	-0.73	-0.69	0	0	0	0	0	0
5/13/2024 20:52	43202	MVIL_T2	93	96	3	1.43	0.89	-0.54	-0.73	-0.69	0	0	0	0	0	0
5/13/2024 20:55	43202	MVIL_T2	93	96	3	1.43	0.89	-0.54	0	0	0	0	0	0	0	0
5/13/2024 20:55	43201	MVIL_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
5/13/2024 20:55	24101	EHAZ_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 20:55	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 20:55	24102	EHAZ_T1	1	7	6	0.2	0.88	0.68	1.01	0.97	0	0	0	0	0	0
5/13/2024 20:55	24105	EHAZ_T1	4	4	0	6.7	6.38	-0.32	0	0	0	0	0	0	0	0
5/13/2024 20:56	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 20:58	67502	WEWI_T2	0	0	0	0	0	0	-1.42	-1.32	1	1	0	900	900	0
5/13/2024 20:59	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 20:59	44502	HAMI_T2	1	1	0	2.6	2.8	0.2	-0.84	-0.87	0	0	0	0	0	0
5/13/2024 21:07	67703	WERN_T2	0	0	0	0	0	0	-0.2	-0.19	1	1	0	900	900	0
5/13/2024 21:08	57403	SPAN_T1	26	26	0	0.35	0.29	-0.06	0	0	0	0	0	0	0	0
5/13/2024 21:08	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 21:08	43302	WATS_T2	4	4	0	0.23	0.78	0.55	0	0	0	0	0	0	0	0
5/13/2024 21:08	57401	SPAN_T1	2	2	0	0.45	0.45	0	-1.31	-0.73	1	1	0	600	600	0
5/13/2024 21:09	66901	SHIL_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
5/13/2024 21:12	16301	ALPA_T1	1	60	59	0.5	0.17	-0.33	-0.39	-0.43	0	0	0	0	0	0
5/13/2024 21:16	53901	HALI_T2	1	1	0	0.6	1	0.4	-1.05	-1.03	0	0	0	0	0	0
5/13/2024 21:16	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
5/13/2024 21:16	53903	HALI_T2	2	39	37	1.8	0.26	-1.54	0	0	0	0	0	0	0	0
5/13/2024 21:17	53903	HALI_T2	2	39	37	1.8	0.26	-1.54	0	0	0	0	0	0	0	0
5/13/2024 21:17	53901	HALI_T2	1	1	0	0.6	1	0.4	-1.05	-1.03	0	0	0	0	0	0
5/13/2024 21:17	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
5/13/2024 21:18	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
5/13/2024 21:18	53903	HALI_T2	2	39	37	1.8	0.26	-1.54	0	0	0	0	0	0	0	0
5/13/2024 21:18	53901	HALI_T2	1	1	0	0.6	1	0.4	-1.05	-1.03	0	0	0	0	0	0
5/13/2024 21:19	53903	HALI_T2	2	39	37	1.8	0.26	-1.54	0	0	0	0	0	0	0	0
5/13/2024 21:19	53901	HALI_T2	1	1	0	0.6	1	0.4	-1.05	-1.03	0	0	0	0	0	0
5/13/2024 21:19	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
5/13/2024 21:20	28403	HART_T2	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
5/13/2024 21:28	57403	SPAN_T1	20	25	5	0.31	0.28	-0.03	0.04	0.03	0	0	0	0	0	0
5/13/2024 21:28	57401	SPAN_T1	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
5/13/2024 21:35	64702	LITI_T2	0	0	0	0	0	0	-0.56	-0.49	0	0	0	0	0	0
5/13/2024 21:35	59003	MIFF_T1	0	1	1	0	0	0	1.47	1.59	0	0	0	0	0	0
5/13/2024 21:35	59002	MIFF_T1	5	5	0	0.36	0.76	0.4	0	0	0	0	0	0	0	0
5/13/2024 21:36	64702	LITI_T2	0	0	0	0	0	0	-0.56	-0.49	0	0	0	0	0	0
5/13/2024 21:38	57401	SPAN_T1	2	2	0	0.4	0.3	-0.1	-0.81	-1.08	1	1	0	600	600	0
5/13/2024 21:38	57403	SPAN_T1	25	46	21	0.28	0.31	0.03	0	0	0	0	0	0	0	0
5/13/2024 21:38	28702	HAML_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/13/2024 21:38	60501	NMAN_T2	606	613	7	0.71	0.8	0.09	0	0	0	0	0	0	0	0
5/13/2024 21:38	28703	HAML_T2	2	3	1	0.35	1.1	0.75	0	0	0	0	0	0	0	0
5/13/2024 21:38	28704	HAML_T2	1	4	3	1.2	0.48	-0.72	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 21:38	60502	NMAN_T2	609	769	160	0.44	0.45	0.01	-0.2	-0.24	0	0	0	0	0	0
5/13/2024 21:38	60504	NMAN_T2	136	165	29	0.28	0.31	0.03	0	0	0	0	0	0	0	0
5/13/2024 21:39	44601	SALE_T2	1	1	0	0.5	0.5	0	-0.05	-0.01	0	0	0	0	0	0
5/13/2024 21:39	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
5/13/2024 21:41	57401	SPAN_T1	2	2	0	0.4	0.3	-0.1	-0.81	-1.08	1	1	0	600	600	0
5/13/2024 21:41	56503	ROCK_T2	4	1	-3	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
5/13/2024 21:41	56501	ROCK_T2	21	18	-3	0.21	0.19	-0.02	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 21:41	57403	SPAN_T1	25	46	21	0.28	0.31	0.03	0	0	0	0	0	0	0	0
5/13/2024 21:42	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 21:42	59101	WALK_T2	0	0	0	0	0	0	1.19	1.24	0	0	0	0	0	0
5/13/2024 21:44	56803	BENV_T1	5	5	0	0.14	0.32	0.18	0	0	0	0	0	0	0	0
5/13/2024 21:44	56802	BENV_T2	1	83	82	0.4	0.17	-0.23	-0.65	-0.7	0	0	0	0	0	0
5/13/2024 21:44	56801	BENV_T1	8	14	6	0.41	0.69	0.28	-0.48	-0.56	1	1	0	600	600	0
5/13/2024 21:48	40501	CRES_T2	3	8	5	0.17	0.29	0.12	0	0	0	0	0	0	0	0
5/13/2024 21:48	40502	CRES_T2	8	15	7	0.33	0.32	-0.01	-0.04	-0.05	0	0	0	0	0	0
5/13/2024 21:49	40505	CRES_T1	3	3	0	5.83	6.1	0.27	0.26	0.24	0	0	0	0	0	0
5/13/2024 21:50	56803	BENV_T1	5	1	-4	0.32	0.1	-0.22	0	0	0	0	0	0	0	0
5/13/2024 21:50	56801	BENV_T1	13	14	1	0.68	0.68	0	-0.48	-0.56	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/13/2024 21:51	56801	BENV_T1	13	14	1	0.68	0.68	0	-0.48	-0.56	1	1	0	600	600	0
5/13/2024 21:51	56803	BENV_T1	5	1	-4	0.32	0.1	-0.22	0	0	0	0	0	0	0	0
5/13/2024 21:53	40502	CRES_T2	8	15	7	0.33	0.32	-0.01	-0.05	0.41	0	0	0	0	0	0
5/13/2024 21:53	40501	CRES_T2	3	8	5	0.17	0.29	0.12	0	0	0	0	0	0	0	0
5/13/2024 21:54	16402	MOPO_T1	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
5/13/2024 21:55	65901	SAKR_T2	1	1	0	9.2	9.3	0.1	0	0	0	0	0	0	0	0
5/13/2024 21:55	65902	SAKR_T2	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
5/13/2024 21:58	63602	LETO_T1	0	0	0	0	0	0	-0.31	-0.43	0	0	0	0	0	0
5/13/2024 21:59	62605	ENGL_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 21:59	62604	ENGL_T1	0	0	0	0	0	0	-0.24	-0.31	1	1	0	600	600	0
5/13/2024 22:01	63804	HEMP_T1	1	1	0	5.2	5.5	0.3	0	0	0	0	0	0	0	0
5/13/2024 22:01	63802	HEMP_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
5/13/2024 22:02	62605	ENGL_T1	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
5/13/2024 22:02	62607	ENGL_T1	0	0	0	0	0	0	-1.09	-1.13	1	1	0	300	300	0
5/13/2024 22:03	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
5/13/2024 22:03	29402	BELT_T1	1	1	0	8	8.3	0.3	0	0	0	0	0	0	0	0
5/13/2024 22:05	29401	BELT_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
5/13/2024 22:05	17002	RIRO_T2	18	0	-18	0.12	0	-0.12	0.3	0.28	0	0	0	0	0	0
5/13/2024 22:05	64904	MILL_T1	306	0	-306	0.31	0	-0.31	-0.33	0.58	0	0	0	0	0	0
5/13/2024 22:05	42802	SELI_T1	1	1	0	0.6	1.2	0.6	-0.95	-1.02	1	1	0	900	900	0
5/13/2024 22:05	64901	MILL_T1	58	12	-46	0.39	0.15	-0.24	0	0	0	0	0	0	0	0
5/13/2024 22:05	29402	BELT_T1	1	1	0	8	8.3	0.3	0	0	0	0	0	0	0	0
5/13/2024 22:06	11405	FARM_T1	1	1	0	3.1	3.1	0	-1.07	-1.08	1	1	0	1200	1200	0
5/13/2024 22:06	26001	WDAM_T1	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
5/13/2024 22:06	15701	TANN_T1	3	2	-1	1.63	2.6	0.97	0	0	0	0	0	0	0	0
5/13/2024 22:06	65502	MOJO_T2	212	0	-212	0.16	0	-0.16	0	0	0	0	0	0	0	0
5/13/2024 22:06	48302	ORWI_T2	2	2	0	1.3	1.15	-0.15	-0.1	-0.12	0	0	0	0	0	0
5/13/2024 22:06	15704	TANN_T1	57	1	-56	0.14	0.1	-0.04	-1.39	-1.15	0	0	0	0	0	0
5/13/2024 22:06	50201	HARR_T3	2	2	0	5.4	4.85	-0.55	0	0	0	0	0	0	0	0
5/13/2024 22:06	20401	ASHF_T2	8	2	-6	0.64	0.75	0.11	-0.34	-0.42	0	0	0	0	0	0
5/13/2024 22:06	62607	ENGL_T1	0	0	0	0	0	0	-2.18	-2.26	2	2	0	600	600	0
5/13/2024 22:06	65503	MOJO_T2	139	1	-138	0.17	0.1	-0.07	-0.19	-0.35	0	0	0	0	0	0
5/13/2024 22:06	50107	HARR_T3	0	0	0	0	0	0	0.52	0.46	0	0	0	0	0	0
5/13/2024 22:06	45902	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:06	50103	HARR_T3	2	2	0	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
5/13/2024 22:06	26002	WDAM_T1	5	5	0	0.36	0.42	0.06	0	0	0	0	0	0	0	0
5/13/2024 22:06	50202	HARR_T3	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/13/2024 22:06	25402	LAHA_T2	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
5/13/2024 22:06	62605	ENGL_T1	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
5/13/2024 22:06	50105	HARR_T3	6	0	0	5.98	6.23	0.25	0	0	0	0	0	0	0	0
5/13/2024 22:07	10602	BLGL_T2	0	0	0	0	0	0	0.01	-0.02	0	0	0	0	0	0
5/13/2024 22:07	11301	EMMA_T1	0	0	0	0	0	0	-0.86	-0.9	0	0	0	0	0	0
5/13/2024 22:07	64901	MILL_T1	58	12	-46	0.39	0.15	-0.24	0	0	0	0	0	0	0	0
5/13/2024 22:07	64904	MILL_T1	306	0	-306	0.31	0	-0.31	-0.33	0.58	0	0	0	0	0	0
5/13/2024 22:07	14802	TREI_T2	14	0	-14	0.17	0	-0.17	0	0	0	0	0	0	0	0
5/13/2024 22:07	57004	WHHI_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 22:07	57005	WHHI_T2	6	0	-6	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/13/2024 22:07	67502	WEWI_T2	178	0	-178	0.2	0	-0.2	-1.43	-0.46	1	0	-1	900	0	-900
5/13/2024 22:07	14801	TREI_T2	42	0	-42	0.13	0	-0.13	0.35	0.34	0	0	0	0	0	0
5/13/2024 22:07	57006	WHHI_T2	130	0	-130	0.32	0	-0.32	0.91	0.8	0	0	0	0	0	0
5/13/2024 22:07	27502	WEIS_T2	0	0	0	0	0	0	-0.26	-0.3	0	0	0	0	0	0
5/13/2024 22:07	57003	WHHI_T2	5	0	-5	0.53	0	-0.53	0	0	0	0	0	0	0	0
5/13/2024 22:08	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
5/13/2024 22:09	57006	WHHI_T2	130	0	-130	0.32	0	-0.32	0.8	0.72	0	0	0	0	0	0
5/13/2024 22:09	43801	SWIL_T1	11	36	25	0.79	0.36	-0.43	0	0	0	0	0	0	0	0
5/13/2024 22:09	57005	WHHI_T2	6	0	-6	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/13/2024 22:09	16301	ALPA_T1	188	254	66	0.21	0.25	0.04	-0.46	-0.49	0	0	0	0	0	0
5/13/2024 22:09	57003	WHHI_T2	5	0	-5	0.53	0	-0.53	0	0	0	0	0	0	0	0
5/13/2024 22:09	64902	MILL_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
5/13/2024 22:09	57501	LAWN_T3	0	0	0	0	0	0	-0.76	-0.8	0	0	0	0	0	0
5/13/2024 22:09	57505	LAWN_T3	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/13/2024 22:09	11507	FREE_T2	0	0	0	0	0	0	0.95	0.9	0	0	0	0	0	0
5/13/2024 22:09	57004	WHHI_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 22:09	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:09	43802	SWIL_T1	0	0	0	0	0	0	-0.2	-0.22	1	1	0	600	600	0
5/13/2024 22:10	24501	GOUL_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
5/13/2024 22:10	47001	HUGH_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
5/13/2024 22:10	29402	BELT_T1	1	1	0	8	8.3	0.3	0	0	0	0	0	0	0	0
5/13/2024 22:10	67702	WERN_T2	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
5/13/2024 22:10	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 22:10	24902	WHHA_T1	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
5/13/2024 22:10	67204	TEHI_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
5/13/2024 22:10	67703	WERN_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
5/13/2024 22:10	62605	ENGL_T1	1	4	3	0.1	0.13	0.03	-0.76	-0.79	0	0	0	0	0	0
5/13/2024 22:10	41301	FISH_T1	2	2	0	1.3	1.2	-0.1	-0.13	-0.14	0	0	0	0	0	0
5/13/2024 22:10	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.04	0	0	0	0	0	0
5/13/2024 22:10	62104	ELAN_T1	0	0	0	0	0	0	0	-0.01	1	1	0	1200	1200	0
5/13/2024 22:10	67605	WARW_T1	25	14	-11	0.53	0.55	0.02	-1.19	-1.26	0	0	0	0	0	0
5/13/2024 22:10	20401	ASHF_T2	8	2	-6	0.64	0.75	0.11	0	0	0	0	0	0	0	0
5/13/2024 22:10	62101	ELAN_T1	1	1	0	5	0	-5	0	0	0	0	0	0	0	0
5/13/2024 22:10	46802	HEPB_T1	1	2	1	1	1.5	0.5	-0.33	-0.31	0	0	0	0	0	0
5/13/2024 22:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/13/2024 22:10	16302	ALPA_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
5/13/2024 22:10	47002	HUGH_T2	0	9	9	0	0.19	0.19	0	0	0	0	0	0	0	0
5/13/2024 22:10	13901	SEID_T1	0	0	0	0	0	0	0.18	0.3	0	0	0	0	0	0
5/13/2024 22:10	20403	ASHF_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
5/13/2024 22:11	16401	MOPO_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
5/13/2024 22:11	64701	LITI_T1	14	0	-14	0.12	0	-0.12	0.12	0.09	0	0	0	0	0	0
5/13/2024 22:11	57304	MOAL_T2	20	0	-20	0.22	0	-0.22	-0.49	-0.54	0	0	0	0	0	0
5/13/2024 22:11	62607	ENGL_T1	0	0	0	0	0	0	-1.13	-1.12	1	1	0	300	300	0
5/13/2024 22:11	14207	EALL_T1	0	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0
5/13/2024 22:11	25503	MADI_T1	158	265	107	0.64	0.48	-0.16	-1.06	-1.09	0	0	0	0	0	0
5/13/2024 22:11	42802	SELI_T1	1	1	0	0.6	1.2	0.6	-1.02	-1.01	1	1	0	900	900	0
5/13/2024 22:11	14203	EALL_T1	0	0	0	0	0	0	-0.38	-0.41	1	1	0	1200	1200	0
5/13/2024 22:11	51302	WIND_T2	1	1	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
5/13/2024 22:11	63602	LETO_T1	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
5/13/2024 22:11	67402	WAKE_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
5/13/2024 22:11	47401	PENS_T1	0	0	0	0	0	0	0.77	0.86	0	0	0	0	0	0
5/13/2024 22:11	67703	WERN_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
5/13/2024 22:11	57505	LAWN_T3	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/13/2024 22:11	57301	MOAL_T2	6	0	-6	0.55	0	-0.55	0	0	0	0	0	0	0	0
5/13/2024 22:11	51304	WIND_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
5/13/2024 22:11	27502	WEIS_T2	0	0	0	0	0	0	-0.6	-0.64	0	0	0	0	0	0
5/13/2024 22:11	64704	LITI_T1	60	0	-60	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/13/2024 22:11	62104	ELAN_T1	0	0	0	0	0	0	0	-0.01	1	1	0	1200	1200	0
5/13/2024 22:11	40601	PIGR_T1	82	0	-82	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/13/2024 22:11	22101	EDEL_T2	0	0	0	0	0	0	0.43	0.39	1	1	0	1200	1200	0
5/13/2024 22:11	67605	WARW_T1	25	14	-11	0.53	0.55	0.02	0	0	0	0	0	0	0	0
5/13/2024 22:11	57501	LAWN_T3	0	0	0	0	0	0	-0.76	-0.8	0	0	0	0	0	0
5/13/2024 22:11	45902	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:11	62605	ENGL_T1	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
5/13/2024 22:11	67604	WARW_T1	0	0	0	0	0	0	0.6	0.67	0	0	0	0	0	0
5/13/2024 22:11	16302	ALPA_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
5/13/2024 22:11	62102	ELAN_T1	0	0	0	0	0	0	0.84	0.6	0	0	0	0	0	0
5/13/2024 22:11	57303	MOAL_T2	1	1	0	7.1	7.6	0.5	0	0	0	0	0	0	0	0
5/13/2024 22:11	62101	ELAN_T1	1	1	0	5	0	-5	0	0	0	0	0	0	0	0
5/13/2024 22:11	40603	PIGR_T1	0	0	0	0	0	0	0.28	0.33	0	0	0	0	0	0
5/13/2024 22:11	67401	WAKE_T2	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
5/13/2024 22:11	47402	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:11	60101	COCA_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
5/13/2024 22:12	46301	ROHR_T1	236	295	59	0.37	0.54	0.17	0.17	0.16	0	0	0	0	0	0
5/13/2024 22:12	64801	MONE_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
5/13/2024 22:12	29402	BELT_T1	1	1	0	8	8.3	0.3	0	0	0	0	0	0	0	0
5/13/2024 22:12	67605	WARW_T1	25	14	-11	0.53	0.55	0.02	-1.19	-1.26	0	0	0	0	0	0
5/13/2024 22:12	15001	BLMO_T1	1	9	8	0.1	0.33	0.23	0	0	0	0	0	0	0	0
5/13/2024 22:12	66505	SMAN_T2	272	171	-101	0.57	0.19	-0.38	0	0	0	0	0	0	0	0
5/13/2024 22:12	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.59	0	0	0	0	0	0
5/13/2024 22:12	13704	SCHN_T2	0	4	4	0	0.15	0.15	-0.46	-0.46	0	0	0	0	0	0
5/13/2024 22:12	65001	NEFF_T2	0	0	0	0	0	0	-0.82	-0.88	1	1	0	1200	1200	0
5/13/2024 22:12	45902	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:12	66504	SMAN_T2	597	158	-439	0.43	0.24	-0.19	-1.23	-1.58	0	0	0	0	0	0
5/13/2024 22:12	46302	ROHR_T1	106	160	54	0.28	0.38	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:12	66501	SMAN_T2	62	61	-1	1.12	0.58	-0.54	0	0	0	0	0	0	0	0
5/13/2024 22:12	66502	SMAN_T2	614	309	-305	0.59	0.26	-0.33	0	0	0	0	0	0	0	0
5/13/2024 22:12	16302	ALPA_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
5/13/2024 22:12	40601	PIGR_T1	82	0	-82	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/13/2024 22:12	66503	SMAN_T2	257	199	-58	0.76	0.25	-0.51	0	0	0	0	0	0	0	0
5/13/2024 22:12	60101	COCA_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
5/13/2024 22:12	48302	ORWI_T2	2	2	0	1.3	1.15	-0.15	-0.12	-0.14	0	0	0	0	0	0
5/13/2024 22:12	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.22	1	1	0	600	600	0
5/13/2024 22:12	67502	WEWI_T2	178	0	-178	0.2	0	-0.2	-0.46	-0.51	0	0	0	0	0	0
5/13/2024 22:12	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 22:12	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:12	40602	PIGR_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
5/13/2024 22:13	15703	TANN_T2	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
5/13/2024 22:13	53903	HALI_T2	15	2	-13	0.37	1.3	0.93	-0.17	-0.18	0	0	0	0	0	0
5/13/2024 22:13	10702	CATA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/13/2024 22:13	67605	WARW_T1	25	14	-11	0.53	0.55	0.02	-1.19	-1.26	0	0	0	0	0	0
5/13/2024 22:13	15702	TANN_T2	1	1	0	0.4	0.5	0.1	0.45	0.42	0	0	0	0	0	0
5/13/2024 22:13	10705	CATA_T2	0	0	0	0	0	0	-1.04	-1.05	1	1	0	900	900	0
5/13/2024 22:13	14801	TREI_T2	42	0	-42	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/13/2024 22:13	42001	MNVL_T2	0	71	71	0	0.15	0.15	-0.02	-0.02	0	0	0	0	0	0
5/13/2024 22:13	60502	NMAN_T2	767	149	-618	0.45	0.32	-0.13	-0.34	-0.25	0	0	0	0	0	0
5/13/2024 22:13	12802	MICK_T1	28	0	-28	0.16	0	-0.16	0	0	0	0	0	0	0	0
5/13/2024 22:13	12803	MICK_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
5/13/2024 22:13	53901	HALI_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
5/13/2024 22:13	53902	HALI_T2	1	1	0	5.8	5.1	-0.7	0	0	0	0	0	0	0	0
5/13/2024 22:13	60501	NMAN_T2	608	400	-208	0.8	0.53	-0.27	0	0	0	0	0	0	0	0
5/13/2024 22:13	12807	MICK_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/13/2024 22:13	65401	MARI_T1	0	0	0	0	0	0	0.4	0.36	0	0	0	0	0	0
5/13/2024 22:13	42002	MNVL_T2	1	1	0	2.6	2.3	-0.3	0	0	0	0	0	0	0	0
5/13/2024 22:13	48301	ORWI_T1	2	2	0	5.4	5.1	-0.3	0	0	0	0	0	0	0	0
5/13/2024 22:13	41802	GOCI_T2	11	0	-11	0.19	0	-0.19	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/13/2024 22:13	67703	WERN_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
5/13/2024 22:13	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:13	14802	TREI_T2	14	0	-14	0.17	0	-0.17	0.27	0.27	0	0	0	0	0	0
5/13/2024 22:13	67702	WERN_T2	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
5/13/2024 22:13	57501	LAWN_T3	0	0	0	0	0	0	-0.76	-0.8	0	0	0	0	0	0
5/13/2024 22:13	14204	EALL_T2	0	0	0	0	0	0	-0.41	-0.38	0	0	0	0	0	0
5/13/2024 22:13	41801	GOCI_T2	18	0	-18	0.16	0	-0.16	0	0	0	0	0	0	0	0
5/13/2024 22:13	60102	COCA_T1	0	0	0	0	0	0	0.44	0.43	2	2	0	1200	1200	0
5/13/2024 22:13	57505	LAWN_T3	2	0	-2	0.2	0	-0.2	0.59	0.55	0	0	0	0	0	0
5/13/2024 22:13	10801	CHHI_T1	0	0	0	0	0	0	-0.96	-1	0	0	0	0	0	0
5/13/2024 22:13	60504	NMAN_T2	165	18	-147	0.31	0.21	-0.1	0	0	0	0	0	0	0	0
5/13/2024 22:13	12801	MICK_T1	0	0	0	0	0	0	-0.27	-0.28	1	1	0	600	600	0
5/13/2024 22:14	67604	WARW_T1	0	0	0	0	0	0	0.6	0.67	0	0	0	0	0	0
5/13/2024 22:14	66505	SMAN_T2	272	171	-101	0.57	0.19	-0.38	0	0	0	0	0	0	0	0
5/13/2024 22:14	67702	WERN_T2	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
5/13/2024 22:14	62101	ELAN_T1	1	1	0	5	0	-5	0	0	0	0	0	0	0	0
5/13/2024 22:14	66504	SMAN_T2	597	158	-439	0.43	0.24	-0.19	-0.41	-0.53	0	0	0	0	0	0
5/13/2024 22:14	66503	SMAN_T2	257	199	-58	0.76	0.25	-0.51	0	0	0	0	0	0	0	0
5/13/2024 22:14	51002	NHAR_T1	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
5/13/2024 22:14	55101	WERT_T1	0	0	0	0	0	0	-0.92	-1.51	1	2	1	900	1500	600
5/13/2024 22:14	52202	DEVO_T2	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
5/13/2024 22:14	51102	CARL_T1	35	90	55	0.15	0.2	0.05	0	0	0	0	0	0	0	0
5/13/2024 22:14	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.52	-0.43	2	2	0	1800	1800	0
5/13/2024 22:14	46001	BERW_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
5/13/2024 22:14	61402	SLIT_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
5/13/2024 22:14	51101	CARL_T1	0	0	0	0	0	0	-1.41	-1.42	1	1	0	600	600	0
5/13/2024 22:14	67605	WARW_T1	25	14	-11	0.53	0.55	0.02	0	0	0	0	0	0	0	0
5/13/2024 22:14	65503	MOJO_T2	139	1	-138	0.17	0.1	-0.07	-0.35	-0.35	0	0	0	0	0	0
5/13/2024 22:14	67703	WERN_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
5/13/2024 22:14	63305	GREE_T1	1	2	1	0	0.1	0.1	-1.3	-1.29	0	0	0	0	0	0
5/13/2024 22:14	66502	SMAN_T2	614	309	-305	0.59	0.26	-0.33	0	0	0	0	0	0	0	0
5/13/2024 22:14	61404	SLIT_T1	3	0	-3	0.13	0	-0.13	-0.18	-0.2	0	0	0	0	0	0
5/13/2024 22:14	63202	MGTN_T2	0	0	0	0	0	0	-0.13	-0.19	1	1	0	900	900	0
5/13/2024 22:14	62607	ENGL_T1	0	0	0	0	0	0	-1.13	-1.12	1	1	0	300	300	0
5/13/2024 22:14	61401	SLIT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 22:14	51004	NHAR_T1	13	13	0	1.18	0.99	-0.19	-0.44	-0.44	0	0	0	0	0	0
5/13/2024 22:14	64101	REFR_T1	0	0	0	0	0	0	-0.39	-0.55	0	0	0	0	0	0
5/13/2024 22:14	65502	MOJO_T2	212	0	-212	0.16	0	-0.16	0	0	0	0	0	0	0	0
5/13/2024 22:14	57505	LAWN_T3	2	0	-2	0.2	0	-0.2	0.59	0.55	0	0	0	0	0	0
5/13/2024 22:14	62605	ENGL_T1	1	4	3	0.1	0.13	0.03	-0.76	-0.79	0	0	0	0	0	0
5/13/2024 22:14	60101	COCA_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
5/13/2024 22:14	66501	SMAN_T2	62	61	-1	1.12	0.58	-0.54	0	0	0	0	0	0	0	0
5/13/2024 22:14	62104	ELAN_T1	0	0	0	0	0	0	0	-0.01	1	1	0	1200	1200	0
5/13/2024 22:15	51102	CARL_T1	10	96	86	0.13	0.2	0.07	0	0	0	0	0	0	0	0
5/13/2024 22:15	56802	BENV_T2	1	1	0	0.8	0.9	0.1	-0.67	-0.72	0	0	0	0	0	0
5/13/2024 22:15	44502	HAMI_T2	1	1	0	3.2	3.6	0.4	-0.95	-1.01	0	0	0	0	0	0
5/13/2024 22:15	45602	WOOL_T1	3	3	0	0.67	0.6	-0.07	0	0	0	0	0	0	0	0
5/13/2024 22:15	50105	HARR_T3	6	6	0	6.23	6.17	-0.06	0	0	0	0	0	0	0	0
5/13/2024 22:15	10805	CHHI_T2	1	1	0	7.8	7.5	-0.3	-1.06	-1.01	0	0	0	0	0	0
5/13/2024 22:15	51108	CARL_T1	0	0	0	0	0	0	-0.57	-0.55	0	0	0	0	0	0
5/13/2024 22:15	47103	MARL_T2	0	0	0	0	0	0	-1.35	-1.35	0	0	0	0	0	0
5/13/2024 22:15	51701	OBER_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
5/13/2024 22:15	57402	SPAN_T2	0	0	0	0	0	0	-1.2	-1.2	0	0	0	0	0	0
5/13/2024 22:15	57505	LAWN_T3	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:15	11801	FRAN_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
5/13/2024 22:15	16501	STRO_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
5/13/2024 22:15	59101	WALK_T2	0	0	0	0	0	0	1.26	1.34	0	0	0	0	0	0
5/13/2024 22:15	42002	MNVL_T2	1	1	0	2.6	2.3	-0.3	0	0	0	0	0	0	0	0
5/13/2024 22:15	14404	SSLA_T1	1	1	0	5.4	5.8	0.4	-0.04	-0.04	0	0	0	0	0	0
5/13/2024 22:15	42001	MNVL_T2	1	71	70	0.1	0.15	0.05	-0.02	-0.02	0	0	0	0	0	0
5/13/2024 22:15	47102	MARL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 22:15	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.04	0	0	0	0	0	0
5/13/2024 22:15	67402	WAKE_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
5/13/2024 22:15	55002	NEWP_T1	2	2	0	0.5	0.5	0	-0.29	-0.28	0	0	0	0	0	0
5/13/2024 22:15	59003	MIFF_T1	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
5/13/2024 22:15	60502	NMAN_T2	149	34	-115	0.32	0.12	-0.2	-0.34	-0.25	0	0	0	0	0	0
5/13/2024 22:15	59002	MIFF_T1	5	5	0	0.14	0.28	0.14	0	0	0	0	0	0	0	0
5/13/2024 22:15	41504	FAIR_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
5/13/2024 22:15	57502	LAWN_T3	0	0	0	0	0	0	-1.8	-1.94	0	0	0	0	0	0
5/13/2024 22:15	67603	WARW_T1	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
5/13/2024 22:15	47001	HUGH_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
5/13/2024 22:15	60504	NMAN_T2	18	3	-15	0.21	0.1	-0.11	0.62	0.57	0	0	0	0	0	0
5/13/2024 22:15	47002	HUGH_T2	1	9	8	0.1	0.19	0.09	0	0	0	0	0	0	0	0
5/13/2024 22:15	60501	NMAN_T2	400	273	-127	0.53	0.31	-0.22	0	0	0	0	0	0	0	0
5/13/2024 22:15	50103	HARR_T3	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
5/13/2024 22:15	67605	WARW_T1	14	14	0	0.36	0.61	0.25	0	0	0	0	0	0	0	0
5/13/2024 22:16	50201	HARR_T3	1	1	0	0.8	0.8	0	-0.92	-0.95	1	1	0	1200	1200	0
5/13/2024 22:16	57004	WHHI_T2	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
5/13/2024 22:16	12006	HATF_T1	0	0	0	0	0	0	0.92	0.87	0	0	0	0	0	0
5/13/2024 22:16	52004	LING_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
5/13/2024 22:16	58006	WCAR_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
5/13/2024 22:16	47104	MARL_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
5/13/2024 22:16	52006	LING_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:16	67605	WARW_T1	14	14	0	0.36	0.61	0.25	-1.19	-1.26	0	0	0	0	0	0
5/13/2024 22:16	42902	MIDD_T2	0	0	0	0	0	0	-2.16	-2.14	2	2	0	1200	1200	0
5/13/2024 22:16	57203	ROSS_T1	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
5/13/2024 22:16	56802	BENV_T2	1	1	0	0.8	0.9	0.1	-0.67	-0.72	0	0	0	0	0	0
5/13/2024 22:16	55101	WERT_T1	0	0	0	0	0	0	-0.92	-1.51	1	2	1	900	1500	600
5/13/2024 22:16	54502	ENOL_T2	1	1	0	1	1.6	0.6	0	0	0	0	0	0	0	0
5/13/2024 22:16	62101	ELAN_T1	1	0	-1	7.1	0	-7.1	0	0	0	0	0	0	0	0
5/13/2024 22:16	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 22:16	47402	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:16	67505	WEWI_T1	0	0	0	0	0	0	-0.16	-0.16	1	1	0	900	900	0
5/13/2024 22:16	67501	WEWI_T1	31	27	-4	0.15	0.16	0.01	0	0	0	0	0	0	0	0
5/13/2024 22:16	14404	SSLA_T1	1	1	0	5.4	5.8	0.4	-0.02	-0.02	0	0	0	0	0	0
5/13/2024 22:16	51102	CARL_T1	10	96	86	0.13	0.2	0.07	0	0	0	0	0	0	0	0
5/13/2024 22:16	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.51	1	1	0	900	900	0
5/13/2024 22:16	64902	MILL_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
5/13/2024 22:16	14801	TREI_T2	0	0	0	0	0	0	0.34	0.3	0	0	0	0	0	0
5/13/2024 22:16	16302	ALPA_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
5/13/2024 22:16	60501	NMAN_T2	400	273	-127	0.53	0.31	-0.22	0	0	0	0	0	0	0	0
5/13/2024 22:16	15703	TANN_T2	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
5/13/2024 22:16	65901	SAKR_T2	1	1	0	8.8	8.8	0	-1.18	-1.21	1	1	0	900	900	0
5/13/2024 22:16	58402	MORO_T1	0	0	0	0	0	0	-0.48	-0.68	2	2	0	1500	1500	0
5/13/2024 22:16	16504	STRO_T1	0	0	0	0	0	0	0.13	0.1	1	1	0	1200	1200	0
5/13/2024 22:16	10702	CATA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:16	62102	ELAN_T1	0	0	0	0	0	0	1.69	1.21	0	0	0	0	0	0
5/13/2024 22:16	47401	PENS_T1	0	0	0	0	0	0	0.77	0.86	0	0	0	0	0	0
5/13/2024 22:16	59301	MCAL_T1	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
5/13/2024 22:16	59302	MCAL_T1	0	1	1	0	0.1	0.1	-0.31	-0.31	1	1	0	600	600	0
5/13/2024 22:16	42903	MIDD_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
5/13/2024 22:16	51101	CARL_T1	0	0	0	0	0	0	-1.41	-1.42	1	1	0	600	600	0
5/13/2024 22:16	13501	MCMI_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
5/13/2024 22:16	57502	LAWN_T3	0	0	0	0	0	0	-0.6	-0.65	0	0	0	0	0	0
5/13/2024 22:16	47101	MARL_T1	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
5/13/2024 22:16	62105	ELAN_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
5/13/2024 22:16	51701	OBER_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
5/13/2024 22:16	52002	LING_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/13/2024 22:16	10705	CATA_T2	0	0	0	0	0	0	-1.04	-1.05	1	1	0	900	900	0
5/13/2024 22:16	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.52	-0.43	2	2	0	1800	1800	0
5/13/2024 22:16	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
5/13/2024 22:16	62605	ENGL_T1	4	4	0	0.1	0.13	0.03	0	0	0	0	0	0	0	0
5/13/2024 22:16	15702	TANN_T2	1	1	0	0.5	0.1	-0.4	0.45	0.42	0	0	0	0	0	0
5/13/2024 22:16	51303	WIND_T1	4	1	-3	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/13/2024 22:16	12002	HATF_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/13/2024 22:16	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:16	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:16	48302	ORWI_T2	2	2	0	1.15	1.2	0.05	0	0	0	0	0	0	0	0
5/13/2024 22:16	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:16	62602	ENGL_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
5/13/2024 22:16	45902	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:16	60504	NMAN_T2	18	3	-15	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
5/13/2024 22:16	14204	EALL_T2	0	0	0	0	0	0	-0.41	-0.38	0	0	0	0	0	0
5/13/2024 22:16	60502	NMAN_T2	149	34	-115	0.32	0.12	-0.2	-0.34	-0.25	0	0	0	0	0	0
5/13/2024 22:16	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	-1.28	-1.3	1	1	0	600	600	0
5/13/2024 22:16	57505	LAWN_T3	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:16	28403	HART_T2	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
5/13/2024 22:16	63305	GREE_T1	2	2	0	0.1	0.1	0	-1.3	-1.29	0	0	0	0	0	0
5/13/2024 22:17	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:17	41202	KENM_T2	0	1	1	0	0.7	0.7	0.57	0.5	0	0	0	0	0	0
5/13/2024 22:17	40602	PIGR_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
5/13/2024 22:17	61404	SLIT_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
5/13/2024 22:17	24105	EHAZ_T1	4	4	0	6.13	6.23	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:17	14603	SWHI_T1	0	0	0	0	0	0	-1.05	-1.07	1	1	0	600	600	0
5/13/2024 22:17	46302	ROHR_T1	160	76	-84	0.38	0.31	-0.07	0	0	0	0	0	0	0	0
5/13/2024 22:17	24102	EHAZ_T1	5	1	-4	1	0	-1	0	0	0	0	0	0	0	0
5/13/2024 22:17	44502	HAMI_T2	1	1	0	3.2	3.6	0.4	0	0	0	0	0	0	0	0
5/13/2024 22:17	58001	WCAR_T1	4	4	0	1.13	1.45	0.32	0	0	0	0	0	0	0	0
5/13/2024 22:17	57505	LAWN_T3	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:17	63804	HEMP_T1	1	1	0	5.5	5.5	0	-0.58	-0.57	0	0	0	0	0	0
5/13/2024 22:17	65503	MOJO_T2	1	0	-1	0.1	0	-0.1	-0.35	-0.35	0	0	0	0	0	0
5/13/2024 22:17	42902	MIDD_T2	0	0	0	0	0	0	-1.08	-1.07	1	1	0	600	600	0
5/13/2024 22:17	54202	PENN_T2	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
5/13/2024 22:17	60605	NCOL_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
5/13/2024 22:17	66504	SMAN_T2	158	14	-144	0.24	0.11	-0.13	0	0	0	0	0	0	0	0
5/13/2024 22:17	51002	NHAR_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:17	50506	MECH_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
5/13/2024 22:17	24104	EHAZ_T1	0	0	0	0	0	0	-1.01	-1.01	1	1	0	1200	1200	0
5/13/2024 22:17	66505	SMAN_T2	171	11	-160	0.19	0.1	-0.09	0.21	0.12	1	1	0	900	900	0
5/13/2024 22:17	57303	MOAL_T2	1	1	0	7.9	7.4	-0.5	0	0	0	0	0	0	0	0
5/13/2024 22:17	57501	LAWN_T3	0	0	0	0	0	0	-1.53	-1.59	0	0	0	0	0	0
5/13/2024 22:17	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 22:17	42903	MIDD_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/13/2024 22:17	53601	DALM_T2	1	1	0	0.6	1.2	0.6	0.29	0.2	0	0	0	0	0	0
5/13/2024 22:17	57506	LAWN_T3	0	0	0	0	0	0	0.62	0.58	1	1	0	600	600	0
5/13/2024 22:17	50501	MECH_T1	4	4	0	0.23	0.73	0.5	0	0	0	0	0	0	0	0
5/13/2024 22:17	52501	PROG_T1	0	0	0	0	0	0	0.43	0.45	1	1	0	300	300	0
5/13/2024 22:17	50502	MECH_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
5/13/2024 22:17	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:17	67703	WERN_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
5/13/2024 22:17	66503	SMAN_T2	199	22	-177	0.25	0.13	-0.12	0	0	0	0	0	0	0	0
5/13/2024 22:17	59101	WALK_T2	0	0	0	0	0	0	1.26	1.34	0	0	0	0	0	0
5/13/2024 22:17	51003	NHAR_T1	0	0	0	0	0	0	-2.41	-2.45	1	1	0	1200	1200	0
5/13/2024 22:17	60502	NMAN_T2	149	34	-115	0.32	0.12	-0.2	-0.34	-0.25	0	0	0	0	0	0
5/13/2024 22:17	66501	SMAN_T2	61	51	-10	0.58	0.31	-0.27	0	0	0	0	0	0	0	0
5/13/2024 22:17	14404	SSLA_T1	1	1	0	5.4	5.8	0.4	-0.02	-0.02	0	0	0	0	0	0
5/13/2024 22:17	11303	EMMA_T1	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
5/13/2024 22:17	57304	MOAL_T2	0	0	0	0	0	0	-0.49	-0.54	0	0	0	0	0	0
5/13/2024 22:17	66502	SMAN_T2	309	49	-260	0.26	0.15	-0.11	0	0	0	0	0	0	0	0
5/13/2024 22:17	60602	NCOL_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
5/13/2024 22:17	44504	HAMI_T2	0	0	0	0	0	0	-1.32	-1.34	0	0	0	0	0	0
5/13/2024 22:17	58003	WCAR_T1	1	1	0	1.8	1.8	0	0.61	0.58	0	0	0	0	0	0
5/13/2024 22:17	60501	NMAN_T2	400	273	-127	0.53	0.31	-0.22	0	0	0	0	0	0	0	0
5/13/2024 22:17	46301	ROHR_T1	292	259	-33	0.54	0.36	-0.18	0.17	0.16	0	0	0	0	0	0
5/13/2024 22:17	51004	NHAR_T1	13	13	0	0.89	0.99	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:17	60504	NMAN_T2	18	3	-15	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
5/13/2024 22:17	10801	CHHI_T1	0	0	0	0	0	0	-0.96	-1	0	0	0	0	0	0
5/13/2024 22:17	42501	ALTA_T2	0	0	0	0	0	0	0.08	0.06	1	1	0	600	600	0
5/13/2024 22:17	27603	PIRI_T2	0	0	0	0	0	0	-0.96	-0.84	2	2	0	1800	1800	0
5/13/2024 22:18	46504	LOHA_T1	3	52	49	1.03	0.57	-0.46	0	0	0	0	0	0	0	0
5/13/2024 22:18	52501	PROG_T1	0	0	0	0	0	0	0.43	0.45	1	1	0	300	300	0
5/13/2024 22:18	10801	CHHI_T1	0	0	0	0	0	0	-0.96	-1	0	0	0	0	0	0
5/13/2024 22:18	58001	WCAR_T1	4	4	0	1.13	1.45	0.32	0	0	0	0	0	0	0	0
5/13/2024 22:18	52202	DEVO_T2	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
5/13/2024 22:18	61801	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:18	13704	SCHN_T2	0	6	6	0	0.28	0.28	0	0	0	0	0	0	0	0
5/13/2024 22:18	50506	MECH_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
5/13/2024 22:18	20401	ASHF_T2	2	3	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:18	64902	MILL_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
5/13/2024 22:18	57004	WHHI_T2	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
5/13/2024 22:18	59302	MCAL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:18	66501	SMAN_T2	61	51	-10	0.58	0.31	-0.27	0	0	0	0	0	0	0	0
5/13/2024 22:18	44601	SALE_T2	1	1	0	0.5	0.6	0.1	-0.07	-0.04	0	0	0	0	0	0
5/13/2024 22:18	60101	COCA_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
5/13/2024 22:18	60902	DONG_T2	0	0	0	0	0	0	0.65	0.6	0	0	0	0	0	0
5/13/2024 22:18	66502	SMAN_T2	309	49	-260	0.26	0.15	-0.11	0	0	0	0	0	0	0	0
5/13/2024 22:18	50502	MECH_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
5/13/2024 22:18	61803	EELI_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
5/13/2024 22:18	57501	LAWN_T3	0	0	0	0	0	0	-0.76	-0.8	0	0	0	0	0	0
5/13/2024 22:18	60502	NMAN_T2	149	34	-115	0.32	0.12	-0.2	-0.34	-0.25	0	0	0	0	0	0
5/13/2024 22:18	13701	SCHN_T2	0	0	0	0	0	0	-0.02	0.01	1	1	0	600	600	0
5/13/2024 22:18	58003	WCAR_T1	1	1	0	1.8	1.8	0	0.61	0.58	0	0	0	0	0	0
5/13/2024 22:18	20403	ASHF_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
5/13/2024 22:18	66505	SMAN_T2	171	11	-160	0.19	0.1	-0.09	0	0	0	0	0	0	0	0
5/13/2024 22:18	50501	MECH_T1	4	4	0	0.23	0.73	0.5	0	0	0	0	0	0	0	0
5/13/2024 22:18	57505	LAWN_T3	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:18	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
5/13/2024 22:18	44301	BEAV_T2	0	0	0	0	0	0	0.35	0.47	1	1	0	600	600	0
5/13/2024 22:18	58402	MORO_T1	0	0	0	0	0	0	-0.48	-0.68	2	2	0	1500	1500	0
5/13/2024 22:18	59301	MCAL_T1	2	2	0	0.45	0.4	-0.05	-1.16	-1.18	0	0	0	0	0	0
5/13/2024 22:18	43101	SMIL_T2	0	0	0	0	0	0	-0.79	-0.83	0	0	0	0	0	0
5/13/2024 22:18	13501	MCMI_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
5/13/2024 22:18	66503	SMAN_T2	199	22	-177	0.25	0.13	-0.12	0	0	0	0	0	0	0	0
5/13/2024 22:18	60501	NMAN_T2	400	273	-127	0.53	0.31	-0.22	0	0	0	0	0	0	0	0
5/13/2024 22:18	57002	WHHI_T2	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
5/13/2024 22:18	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:18	43102	SMIL_T2	9	7	-2	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
5/13/2024 22:18	60504	NMAN_T2	18	3	-15	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
5/13/2024 22:18	43105	SMIL_T2	12	12	0	0.16	0.2	0.04	0	0	0	0	0	0	0	0
5/13/2024 22:18	46506	LOHA_T1	1	1	0	0.3	0.5	0.2	-0.44	-0.44	0	0	0	0	0	0
5/13/2024 22:18	42201	SHEN_T2	0	0	0	0	0	0	0.76	0.78	0	0	0	0	0	0
5/13/2024 22:18	43103	SMIL_T2	22	22	0	0.86	1.05	0.19	0	0	0	0	0	0	0	0
5/13/2024 22:18	51109	CARL_T1	0	0	0	0	0	0	-0.99	-1	1	1	0	1200	1200	0
5/13/2024 22:18	66504	SMAN_T2	158	14	-144	0.24	0.11	-0.13	-0.41	-0.53	0	0	0	0	0	0
5/13/2024 22:18	57502	LAWN_T3	0	0	0	0	0	0	-0.6	-0.65	0	0	0	0	0	0
5/13/2024 22:18	54502	ENOL_T2	1	1	0	1	1.6	0.6	-1.15	-1.14	1	1	0	600	600	0
5/13/2024 22:18	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/13/2024 22:18	45602	WOOL_T1	3	3	0	0.67	0.6	-0.07	0	0	0	0	0	0	0	0
5/13/2024 22:18	51102	CARL_T1	10	96	86	0.13	0.2	0.07	0	0	0	0	0	0	0	0
5/13/2024 22:18	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:19	64802	MONE_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
5/13/2024 22:19	57205	ROSS_T1	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
5/13/2024 22:19	50506	MECH_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
5/13/2024 22:19	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:19	40802	EXCH_T2	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
5/13/2024 22:19	46504	LOHA_T1	3	52	49	1.03	0.57	-0.46	0	0	0	0	0	0	0	0
5/13/2024 22:19	58003	WCAR_T1	1	1	0	1.8	1.8	0	0.61	0.58	0	0	0	0	0	0
5/13/2024 22:19	58001	WCAR_T1	4	4	0	1.13	1.45	0.32	0	0	0	0	0	0	0	0
5/13/2024 22:19	50501	MECH_T1	4	4	0	0.23	0.73	0.5	0	0	0	0	0	0	0	0
5/13/2024 22:19	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
5/13/2024 22:19	10901	COOP_T2	0	0	0	0	0	0	0.76	0.72	0	0	0	0	0	0
5/13/2024 22:19	55002	NEWP_T1	2	2	0	0.5	0.5	0	-0.58	-0.56	0	0	0	0	0	0
5/13/2024 22:19	15103	UPHA_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
5/13/2024 22:19	52006	LING_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:19	45902	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:19	52002	LING_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/13/2024 22:19	64301	LINC_T1	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
5/13/2024 22:19	47103	MARL_T2	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
5/13/2024 22:19	46506	LOHA_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/13/2024 22:19	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/13/2024 22:19	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 22:19	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:19	47102	MARL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 22:19	63801	HEMP_T1	0	0	0	0	0	0	-0.34	-0.64	1	1	0	900	900	0
5/13/2024 22:19	52501	PROG_T1	0	0	0	0	0	0	0.43	0.45	1	1	0	300	300	0
5/13/2024 22:19	50502	MECH_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
5/13/2024 22:19	10903	COOP_T2	45	99	54	0.16	0.26	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:19	60605	NCOL_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
5/13/2024 22:19	52004	LING_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
5/13/2024 22:19	46001	BERW_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
5/13/2024 22:19	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
5/13/2024 22:19	12002	HATF_T1	1	1	0	0.7	0.7	0	0.12	0.19	0	0	0	0	0	0
5/13/2024 22:19	12701	MACU_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
5/13/2024 22:20	47401	PENS_T1	0	0	0	0	0	0	0.77	0.86	0	0	0	0	0	0
5/13/2024 22:20	13704	SCHN_T2	0	6	6	0	0.28	0.28	-0.46	-0.46	0	0	0	0	0	0
5/13/2024 22:20	16302	ALPA_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
5/13/2024 22:20	14401	SSLA_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
5/13/2024 22:20	47402	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:20	59003	MIFF_T1	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
5/13/2024 22:20	51702	OBER_T1	2	2	0	2.35	2.4	0.05	0	0	0	0	0	0	0	0
5/13/2024 22:20	47101	MARL_T1	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
5/13/2024 22:20	45602	WOOL_T1	3	3	0	0.67	0.6	-0.07	0	0	0	0	0	0	0	0
5/13/2024 22:20	53901	HALI_T2	1	1	0	0.1	1	0.9	-1.55	-1.55	0	0	0	0	0	0
5/13/2024 22:20	53902	HALI_T2	1	1	0	5	5.5	0.5	0	0	0	0	0	0	0	0
5/13/2024 22:20	67703	WERN_T2	0	0	0	0	0	0	1.36	1.32	0	0	0	0	0	0
5/13/2024 22:20	67203	TEHI_T1	0	0	0	0	0	0	2.12	2.1	2	2	0	1500	1500	0
5/13/2024 22:20	57505	LAWN_T3	0	2	2	0	0.1	0.1	0.59	0.55	0	0	0	0	0	0
5/13/2024 22:20	66302	MCGO_T2	0	0	0	0	0	0	-1.08	-1.14	1	1	0	600	600	0
5/13/2024 22:20	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
5/13/2024 22:20	45601	WOOL_T1	0	0	0	0	0	0	-0.04	0	1	1	0	1200	1200	0
5/13/2024 22:20	60102	COCA_T1	0	0	0	0	0	0	0.44	0.43	2	2	0	1200	1200	0
5/13/2024 22:20	53903	HALI_T2	2	2	0	1.25	1.4	0.15	0	0	0	0	0	0	0	0
5/13/2024 22:20	51704	OBER_T1	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
5/13/2024 22:20	59002	MIFF_T1	5	5	0	0.14	0.28	0.14	0	0	0	0	0	0	0	0
5/13/2024 22:20	14404	SSLA_T1	1	1	0	5.4	5.8	0.4	0	0	0	0	0	0	0	0
5/13/2024 22:21	52502	PROG_T2	0	0	0	0	0	0	-0.58	-0.68	1	1	0	900	900	0
5/13/2024 22:21	44601	SALE_T2	1	1	0	0.5	0.6	0.1	-0.07	-0.04	0	0	0	0	0	0
5/13/2024 22:21	14802	TREI_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
5/13/2024 22:21	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:21	53502	EVIL_T2	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
5/13/2024 22:21	46001	BERW_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
5/13/2024 22:21	57501	LAWN_T3	0	0	0	0	0	0	-0.76	-0.8	0	0	0	0	0	0
5/13/2024 22:21	57403	SPAN_T1	7	21	14	0.19	0.21	0.02	0.03	0.03	0	0	0	0	0	0
5/13/2024 22:21	11301	EMMA_T1	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
5/13/2024 22:21	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 22:21	13704	SCHN_T2	0	6	6	0	0.28	0.28	-0.46	-0.46	0	0	0	0	0	0
5/13/2024 22:21	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:21	57203	ROSS_T1	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
5/13/2024 22:21	57505	LAWN_T3	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:21	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/13/2024 22:21	53501	EVIL_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
5/13/2024 22:21	56802	BENV_T2	1	1	0	0.8	0.9	0.1	-0.67	-0.72	0	0	0	0	0	0
5/13/2024 22:21	43302	WATS_T2	4	4	0	0.15	0.43	0.28	0	0	0	0	0	0	0	0
5/13/2024 22:21	67702	WERN_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
5/13/2024 22:21	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:21	52501	PROG_T1	0	0	0	0	0	0	0.43	0.45	1	1	0	300	300	0
5/13/2024 22:22	45601	WOOL_T1	0	0	0	0	0	0	-0.04	0	1	1	0	1200	1200	0
5/13/2024 22:22	52006	LING_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:22	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:22	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
5/13/2024 22:22	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:22	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/13/2024 22:22	43302	WATS_T2	4	4	0	0.15	0.43	0.28	0	0	0	0	0	0	0	0
5/13/2024 22:22	42503	ALTA_T2	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
5/13/2024 22:22	42903	MIDD_T2	2	2	0	0.95	1.1	0.15	-1.36	-1.34	1	1	0	1200	1200	0
5/13/2024 22:22	10702	CATA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/13/2024 22:22	10701	CATA_T2	0	0	0	0	0	0	0.61	0.55	0	0	0	0	0	0
5/13/2024 22:22	52502	PROG_T2	0	0	0	0	0	0	-0.58	-0.68	1	1	0	900	900	0
5/13/2024 22:22	53902	HALI_T2	1	1	0	5	5.5	0.5	0	0	0	0	0	0	0	0
5/13/2024 22:22	52004	LING_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
5/13/2024 22:22	53903	HALI_T2	2	2	0	1.25	1.4	0.15	-0.34	-0.37	0	0	0	0	0	0
5/13/2024 22:22	11805	FRAN_T1	0	0	0	0	0	0	-1.42	-1.46	1	1	0	1200	1200	0
5/13/2024 22:22	45402	WBLO_T2	1	1	0	1.6	1.3	-0.3	-0.87	-0.89	0	0	0	0	0	0
5/13/2024 22:22	50502	MECH_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
5/13/2024 22:22	52002	LING_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/13/2024 22:22	57401	SPAN_T1	0	0	0	0	0	0	-0.81	-0.81	1	1	0	600	600	0
5/13/2024 22:22	40902	IESH_T1	0	0	0	0	0	0	-1.86	-1.81	0	0	0	0	0	0
5/13/2024 22:22	46001	BERW_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
5/13/2024 22:22	50501	MECH_T1	4	4	0	0.23	0.73	0.5	0	0	0	0	0	0	0	0
5/13/2024 22:22	57403	SPAN_T1	7	21	14	0.19	0.21	0.02	0	0	0	0	0	0	0	0
5/13/2024 22:22	67201	TEHI_T1	0	0	0	0	0	0	0.46	0.38	0	0	0	0	0	0
5/13/2024 22:22	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.52	-0.43	2	2	0	1800	1800	0
5/13/2024 22:22	45602	WOOL_T1	3	3	0	0.67	0.6	-0.07	0	0	0	0	0	0	0	0
5/13/2024 22:22	57505	LAWN_T3	0	2	2	0	0.1	0.1	0.59	0.55	0	0	0	0	0	0
5/13/2024 22:22	44301	BEAV_T2	0	0	0	0	0	0	0.35	0.47	1	1	0	600	600	0
5/13/2024 22:22	53901	HALI_T2	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
5/13/2024 22:22	41801	GOCI_T2	0	10	10	0	0.11	0.11	0	0	0	0	0	0	0	0
5/13/2024 22:22	50506	MECH_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
5/13/2024 22:23	43302	WATS_T2	4	4	0	0.15	0.43	0.28	0	0	0	0	0	0	0	0
5/13/2024 22:23	65401	MARI_T1	0	0	0	0	0	0	1.09	1.03	0	0	0	0	0	0
5/13/2024 22:23	57403	SPAN_T1	7	21	14	0.19	0.21	0.02	0.03	-0.03	0	0	0	0	0	0
5/13/2024 22:23	65502	MOJO_T2	0	0	0	0	0	0	0.03	-0.02	0	0	0	0	0	0
5/13/2024 22:23	58402	MORO_T1	0	0	0	0	0	0	-0.68	-0.54	2	2	0	1500	1500	0
5/13/2024 22:23	50502	MECH_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
5/13/2024 22:23	42001	MNVL_T2	1	71	70	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/13/2024 22:23	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:23	50506	MECH_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
5/13/2024 22:23	42002	MNVL_T2	1	1	0	2.6	2.3	-0.3	0.22	0.24	0	0	0	0	0	0
5/13/2024 22:23	46801	HEPB_T2	2	2	0	0.6	0.85	0.25	0.53	0.52	0	0	0	0	0	0
5/13/2024 22:23	50501	MECH_T1	4	4	0	0.23	0.73	0.5	0	0	0	0	0	0	0	0
5/13/2024 22:23	42201	SHEN_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
5/13/2024 22:23	65503	MOJO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/13/2024 22:23	51303	WIND_T1	4	1	-3	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/13/2024 22:24	40703	FFLD_T1	4	4	0	0.38	0.63	0.25	0	0	0	0	0	0	0	0
5/13/2024 22:24	57505	LAWN_T3	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:24	12701	MAOL_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
5/13/2024 22:24	40702	FFLD_T1	47	126	79	0.17	0.31	0.14	-0.68	-0.84	1	1	0	1200	1200	0
5/13/2024 22:24	42902	MIDD_T2	0	0	0	0	0	0	-1.07	-1.07	1	1	0	600	600	0
5/13/2024 22:24	44301	BEAV_T2	0	0	0	0	0	0	0.47	0.71	1	1	0	600	600	0
5/13/2024 22:24	46004	BERW_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
5/13/2024 22:24	10702	CATA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:24	42903	MIDD_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
5/13/2024 22:24	47402	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:24	47401	PENS_T1	0	0	0	0	0	0	0.86	0.79	0	0	0	0	0	0
5/13/2024 22:24	57502	LAWN_T3	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
5/13/2024 22:24	52502	PROG_T2	0	0	0	0	0	0	-0.68	-0.32	1	1	0	900	900	0
5/13/2024 22:24	10705	CATA_T2	0	0	0	0	0	0	-1.05	-1.06	1	1	0	900	900	0
5/13/2024 22:24	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
5/13/2024 22:24	40701	FFLD_T1	60	75	15	0.43	0.56	0.13	0	0	0	0	0	0	0	0
5/13/2024 22:24	55002	NEWP_T1	2	2	0	0.5	0.5	0	-0.28	-0.3	0	0	0	0	0	0
5/13/2024 22:25	55105	WERT_T1	0	0	0	0	0	0	-0.53	-0.54	1	1	0	900	900	0
5/13/2024 22:25	43801	SWIL_T1	10	36	26	0.73	0.36	-0.37	0	0	0	0	0	0	0	0
5/13/2024 22:25	43105	SMIL_T2	12	12	0	0.16	0.2	0.04	0	0	0	0	0	0	0	0
5/13/2024 22:25	43103	SMIL_T2	22	22	0	0.86	1.05	0.19	-0.99	-1.02	0	0	0	0	0	0
5/13/2024 22:25	63804	HEMP_T1	1	1	0	5.5	5.5	0	-0.57	-0.89	0	0	0	0	0	0
5/13/2024 22:25	42501	ALTA_T2	0	0	0	0	0	0	0.06	0.06	1	1	0	600	600	0
5/13/2024 22:25	59003	MIFF_T1	0	0	0	0	0	0	0.55	0.36	0	0	0	0	0	0
5/13/2024 22:25	59002	MIFF_T1	5	5	0	0.14	0.28	0.14	0	0	0	0	0	0	0	0
5/13/2024 22:25	43102	SMIL_T2	9	7	-2	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
5/13/2024 22:25	67703	WERN_T2	0	0	0	0	0	0	0.66	0.64	0	0	0	0	0	0
5/13/2024 22:25	42903	MIDD_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
5/13/2024 22:25	42902	MIDD_T2	0	0	0	0	0	0	-1.07	-1.07	1	1	0	600	600	0
5/13/2024 22:25	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
5/13/2024 22:25	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/13/2024 22:25	43802	SWIL_T1	0	0	0	0	0	0	-0.22	-0.16	1	1	0	600	600	0
5/13/2024 22:26	46302	ROHR_T1	160	76	-84	0.38	0.31	-0.07	0.09	0.11	0	0	0	0	0	0
5/13/2024 22:26	46301	ROHR_T1	292	259	-33	0.54	0.36	-0.18	0	0	0	0	0	0	0	0
5/13/2024 22:26	53902	HALI_T2	1	1	0	5	5.5	0.5	-0.27	-0.31	0	0	0	0	0	0
5/13/2024 22:26	53903	HALI_T2	2	2	0	1.25	1.4	0.15	0	0	0	0	0	0	0	0
5/13/2024 22:26	56802	BENV_T2	1	1	0	0.8	0.9	0.1	-0.72	-0.72	0	0	0	0	0	0
5/13/2024 22:26	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2024 22:26	53901	HALI_T2	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
5/13/2024 22:26	40101	HUNT_T2	0	0	0	0	0	0	-0.59	-0.58	0	0	0	0	0	0
5/13/2024 22:27	53902	HALI_T2	1	1	0	5	5.5	0.5	0	0	0	0	0	0	0	0
5/13/2024 22:27	49804	UNIV_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/13/2024 22:27	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.28	1	1	0	600	600	0
5/13/2024 22:27	42903	MIDD_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
5/13/2024 22:27	53901	HALI_T2	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
5/13/2024 22:27	53903	HALI_T2	2	2	0	1.25	1.4	0.15	-0.18	-0.18	0	0	0	0	0	0
5/13/2024 22:27	49803	UNIV_T1	0	0	0	0	0	0	-1.3	-1.3	0	0	0	0	0	0
5/13/2024 22:27	42902	MIDD_T2	0	0	0	0	0	0	-1.07	-1.07	1	1	0	600	600	0
5/13/2024 22:27	56802	BENV_T2	1	1	0	0.8	0.9	0.1	-0.72	-0.72	0	0	0	0	0	0
5/13/2024 22:30	49804	UNIV_T1	1	2	1	0.1	0.35	0.25	0.36	0.31	0	0	0	0	0	0
5/13/2024 22:31	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.28	1	1	0	600	600	0
5/13/2024 22:32	55002	NEWP_T1	2	2	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/13/2024 22:32	55001	NEWP_T1	0	0	0	0	0	0	-0.29	-0.22	0	0	0	0	0	0
5/13/2024 22:33	42501	ALTA_T2	0	0	0	0	0	0	0.06	0.06	1	1	0	600	600	0
5/13/2024 22:42	67501	WEWI_T1	27	4	-23	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
5/13/2024 22:42	67505	WEWI_T1	0	0	0	0	0	0	-0.22	-0.2	1	1	0	900	900	0
5/13/2024 22:47	28805	LAKE_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
5/13/2024 22:50	28805	LAKE_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
5/13/2024 22:56	63802	HEMP_T1	0	0	0	0	0	0	0.08	0.03	0	0	0	0	0	0
5/13/2024 22:56	63804	HEMP_T1	1	1	0	5.5	5.1	-0.4	0	0	0	0	0	0	0	0
5/13/2024 22:59	50105	HARR_T3	6	6	0	6.17	6.13	-0.04	0	0	0	0	0	0	0	0
5/13/2024 22:59	50103	HARR_T3	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
5/13/2024 22:59	50201	HARR_T3	1	1	0	0.8	0.8	0	-0.94	-0.95	1	1	0	1200	1200	0
5/13/2024 23:01	41301	FISH_T1	2	2	0	1.35	1.9	0.55	-0.13	-0.13	0	0	0	0	0	0
5/13/2024 23:10	41301	FISH_T1	2	2	0	1.35	1.9	0.55	-0.13	-0.12	0	0	0	0	0	0
5/13/2024 23:16	57505	LAWN_T3	4	9	5	0.15	0.28	0.13	0.51	0.5	0	0	0	0	0	0
5/13/2024 23:27	57303	MOAL_T2	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
5/13/2024 23:27	57306	MOAL_T2	0	0	0	0	0	0	-3.2	-3.25	1	1	0	1200	1200	0
5/13/2024 23:27	57304	MOAL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/14/2024 0:24	44301	BEAV_T2	0	0	0	0	0	0	0.51	0.36	1	1	0	600	600	0
5/14/2024 0:25	54505	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/14/2024 0:25	54502	ENOL_T2	1	1	0	0.8	1.5	0.7	-1.15	-1.15	0	1	1	0	600	600
5/14/2024 6:44	41502	FAIR_T2	0	0	0	0	0	0	-1.76	-1.74	1	1	0	900	900	0
5/14/2024 6:52	56501	ROCK_T2	2	2	0	0.2	0.65	0.45	-0.01	-0.01	0	0	0	0	0	0
5/14/2024 7:11	61702	ELIZ_T2	0	0	0	0	0	0	-2.21	-2.3	2	2	0	1500	1500	0
5/14/2024 7:11	61704	ELIZ_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
5/14/2024 7:13	62601	ENGL_T1	0	0	0	0	0	0	-0.26	-0.23	0	0	0	0	0	0
5/14/2024 7:20	56501	ROCK_T2	2	2	0	0.65	0.55	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/14/2024 7:21	65205	PRIN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/14/2024 7:27	45501	DERR_T2	0	2	2	0	0.2	0.2	0.79	0.9	2	2	0	1800	1800	0
5/14/2024 7:31	55003	NEWP_T2	10	13	3	0.36	0.37	0.01	-0.88	-0.86	1	1	0	600	600	0
5/14/2024 7:52	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/14/2024 7:54	45501	DERR_T2	2	2	0	0.4	0.4	0	0.82	0.87	2	2	0	1800	1800	0
5/14/2024 7:55	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/14/2024 7:58	62607	ENGL_T1	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
5/14/2024 7:58	40101	HUNT_T2	0	0	0	0	0	0	-0.63	-0.6	0	0	0	0	0	0
5/14/2024 8:08	29401	BELT_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/14/2024 8:08	29402	BELT_T1	1	3	2	8.2	4.3	-3.9	0	0	0	0	0	0	0	0
5/14/2024 8:09	58006	WCAR_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
5/14/2024 8:09	58002	WCAR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/14/2024 8:10	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/14/2024 8:16	14205	EALL_T2	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
5/14/2024 8:16	14204	EALL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/14/2024 8:16	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/14/2024 8:17	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/14/2024 8:17	55002	NEWP_T1	5	8	3	1.12	0.83	-0.29	-0.76	-0.87	0	0	0	0	0	0
5/14/2024 8:20	58003	WCAR_T1	1	49	48	1.5	0.26	-1.24	0.14	0.15	1	1	0	600	600	0
5/14/2024 8:20	58001	WCAR_T1	4	4	0	0.98	1.7	0.72	0	0	0	0	0	0	0	0
5/14/2024 8:23	29402	BELT_T1	1	2	1	8.5	4.4	-4.1	0	0	0	0	0	0	0	0
5/14/2024 8:23	29401	BELT_T1	2	23	21	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/14/2024 8:24	58002	WCAR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/14/2024 8:24	58006	WCAR_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
5/14/2024 8:26	46402	FLEM_T2	4	20	16	0.1	0.41	0.31	0	0	0	0	0	0	0	0
5/14/2024 8:26	46401	FLEM_T2	6	29	23	0.25	0.3	0.05	0.48	0.47	0	0	0	0	0	0
5/14/2024 8:33	13303	ORVI_T1	0	0	0	0	0	0	0.96	0.91	0	0	0	0	0	0
5/14/2024 8:35	13704	SCHN_T2	0	2	2	0	0.3	0.3	-0.34	-0.36	0	0	0	0	0	0
5/14/2024 8:39	44801	EDAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/14/2024 8:39	44802	EDAN_T2	0	0	0	0	0	0	-4.44	-4.28	0	0	0	0	0	0
5/14/2024 8:40	58002	WCAR_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/14/2024 8:40	44802	EDAN_T2	0	0	0	0	0	0	-2.22	-2.14	0	0	0	0	0	0
5/14/2024 8:40	44801	EDAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/14/2024 8:40	58006	WCAR_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
5/14/2024 8:41	44802	EDAN_T2	0	0	0	0	0	0	-2.22	-2.14	0	0	0	0	0	0
5/14/2024 8:41	44801	EDAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/14/2024 8:42	44801	EDAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/14/2024 8:42	61503	EPET_T1	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
5/14/2024 8:42	44802	EDAN_T2	0	0	0	0	0	0	-4.44	-4.28	0	0	0	0	0	0
5/14/2024 8:48	54203	PENN_T1	18	18	0	1.14	0.97	-0.17	0.72	0.75	0	0	0	0	0	0
5/14/2024 8:48	54201	PENN_T1	10	10	0	1.16	1.07	-0.09	0	0	0	0	0	0	0	0
5/14/2024 8:50	57401	SPAN_T1	0	2	2	0	0.15	0.15	-1.07	-1.15	1	1	0	600	600	0
5/14/2024 8:50	57403	SPAN_T1	159	138	-21	0.34	0.3	-0.04	0	0	0	0	0	0	0	0
5/14/2024 8:52	57403	SPAN_T1	159	138	-21	0.34	0.3	-0.04	-0.05	-0.06	0	0	0	0	0	0
5/14/2024 8:52	57401	SPAN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/14/2024 8:53	20401	ASHF_T2	5	5	0	0.32	0.44	0.12	-0.35	-0.22	0	0	0	0	0	0
5/14/2024 8:53	20403	ASHF_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/14/2024 8:54	20403	ASHF_T2	1	1	0	0.1	0.3	0.2	1.34	1.42	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/14/2024 8:54	20401	ASHF_T2	5	5	0	0.32	0.44	0.12	0	0	0	0	0	0	0	0
5/14/2024 8:55	58002	WCAR_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/14/2024 8:55	58006	WCAR_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
5/14/2024 8:56	20401	ASHF_T2	5	5	0	0.32	0.44	0.12	0	0	0	0	0	0	0	0
5/14/2024 8:56	20403	ASHF_T2	1	1	0	0.1	0.3	0.2	1.34	1.42	0	0	0	0	0	0
5/14/2024 9:06	23001	SAJO_T1	0	0	0	0	0	0	-0.86	-0.89	0	0	0	0	0	0
5/14/2024 9:06	23002	SAJO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/14/2024 9:07	14801	TREI_T2	62	85	23	0.2	0.27	0.07	0.28	0.3	0	0	0	0	0	0
5/14/2024 9:07	14802	TREI_T2	19	20	1	0.19	0.23	0.04	0	0	0	0	0	0	0	0
5/14/2024 9:08	14802	TREI_T2	19	20	1	0.19	0.23	0.04	0.37	0.37	0	0	0	0	0	0
5/14/2024 9:08	14801	TREI_T2	62	85	23	0.2	0.27	0.07	0	0	0	0	0	0	0	0
5/14/2024 9:10	43701	WILL_T1	0	0	0	0	0	0	0.22	0.17	0	0	0	0	0	0
5/14/2024 9:10	43705	WILL_T1	2	2	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
5/14/2024 9:10	43704	WILL_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
5/14/2024 9:11	58002	WCAR_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/14/2024 9:11	58006	WCAR_T2	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
5/14/2024 9:17	43201	MVIL_T2	4	2	-2	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
5/14/2024 9:17	43202	MVIL_T2	194	191	-3	1.1	0.99	-0.11	-0.59	-0.61	0	0	0	0	0	0
5/14/2024 9:22	17002	RIRO_T2	4	3	-1	0.8	0.57	-0.23	0.67	0.56	0	0	0	0	0	0
5/14/2024 9:26	14801	TREI_T2	81	77	-4	0.26	0.26	0	0.33	0.3	0	0	0	0	0	0
5/14/2024 9:26	14802	TREI_T2	17	20	3	0.21	0.22	0.01	0	0	0	0	0	0	0	0
5/14/2024 9:33	23001	SAJO_T1	0	0	0	0	0	0	-0.89	-0.87	0	0	0	0	0	0
5/14/2024 9:33	23002	SAJO_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/14/2024 9:36	65207	PRIN_T4	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/14/2024 9:36	65201	PRIN_T4	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/14/2024 9:40	27502	WEIS_T2	0	0	0	0	0	0	-0.55	-0.49	0	0	0	0	0	0
5/14/2024 9:55	10805	CHHI_T2	1	1	0	8.4	8.4	0	-0.79	-0.66	1	1	0	600	600	0
5/14/2024 10:00	23001	SAJO_T1	0	0	0	0	0	0	-1.68	-1.71	0	0	0	0	0	0
5/14/2024 10:00	40101	HUNT_T2	1	1	0	1	0	-1	-0.44	-0.38	0	0	0	0	0	0
5/14/2024 10:00	65004	NEFF_T2	116	124	8	0.17	0.19	0.02	0	0	0	0	0	0	0	0
5/14/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.04	0.04	1	1	0	1200	1200	0
5/14/2024 10:00	56601	HAMP_T1	0	0	0	0	0	0	-0.32	-0.53	0	0	0	0	0	0
5/14/2024 10:00	67204	TEHI_T2	0	0	0	0	0	0	-0.33	-0.28	0	0	0	0	0	0
5/14/2024 10:00	58102	NEKI_T1	0	1	1	0	0.4	0.4	0.27	0.36	0	0	0	0	0	0
5/14/2024 10:00	22401	MORG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/14/2024 10:00	12502	MITR_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
5/14/2024 10:00	15103	UPHA_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
5/14/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
5/14/2024 10:00	40505	CRES_T1	3	3	0	5.07	4.9	-0.17	0.31	0.29	0	0	0	0	0	0
5/14/2024 10:00	54001	SDLE_T1	3	4	1	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
5/14/2024 10:00	51101	CARL_T1	0	0	0	0	0	0	-1.16	-1.18	1	1	0	600	600	0
5/14/2024 10:00	67703	WERN_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
5/14/2024 10:00	65003	NEFF_T2	198	182	-16	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
5/14/2024 10:00	65002	NEFF_T2	50	57	7	0.11	0.11	0	0	0	0	0	0	0	0	0
5/14/2024 10:00	27502	WEIS_T2	0	0	0	0	0	0	-0.99	-1	0	0	0	0	0	0
5/14/2024 10:00	60101	COCA_T1	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
5/14/2024 10:00	12505	MITR_T2	0	0	0	0	0	0	1.18	1.38	0	0	0	0	0	0
5/14/2024 10:00	12803	MICK_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/14/2024 10:00	29402	BELT_T1	4	2	-2	2.5	4.65	2.15	0	0	0	0	0	0	0	0
5/14/2024 10:00	53903	HALI_T2	2	2	0	1.3	1.5	0.2	-0.14	-0.17	0	0	0	0	0	0
5/14/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	1.11	1.12	0	0	0	0	0	0
5/14/2024 10:00	56801	BENV_T1	7	20	13	0.86	0.78	-0.08	-0.26	-0.33	1	1	0	600	600	0
5/14/2024 10:00	25603	ARRO_T1	0	1	1	0	0.5	0.5	-0.2	-0.17	0	0	0	0	0	0
5/14/2024 10:00	17002	RIRO_T2	2	4	2	0.55	0.45	-0.1	0.6	0.59	0	0	0	0	0	0
5/14/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-1.24	-1.16	1	1	0	900	900	0
5/14/2024 10:00	63304	GREE_T1	0	0	0	0	0	0	-0.46	-0.38	0	0	0	0	0	0
5/14/2024 10:00	66202	SISP_T2	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
5/14/2024 10:00	59002	MIFF_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/14/2024 10:00	63804	HEMP_T1	1	1	0	6.1	5.7	-0.4	0	0	0	0	0	0	0	0
5/14/2024 10:00	10801	CHHI_T1	4	5	1	0.4	0.2	-0.2	-0.57	-0.78	1	0	-1	900	0	-900
5/14/2024 10:00	67605	WARW_T1	32	32	0	0.55	0.55	0	-1.16	-1.15	0	0	0	0	0	0
5/14/2024 10:00	14603	SWHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/14/2024 10:00	57505	LAWN_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/14/2024 10:00	54601	SUMM_T2	2	12	10	0.2	0.36	0.16	-1.82	-1.87	2	2	0	2100	2100	0
5/14/2024 10:00	51702	OBER_T1	2	2	0	2.7	2.6	-0.1	-0.53	-0.45	0	0	0	0	0	0
5/14/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	-1.4	-1.14	3	3	0	1800	1800	0
5/14/2024 10:00	58001	WCAR_T1	4	4	0	0.73	1.03	0.3	0.7	0.75	0	0	0	0	0	0
5/14/2024 10:00	45502	DERR_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/14/2024 10:00	60502	NMAN_T2	175	851	676	0.22	0.52	0.3	-0.22	-0.1	0	0	0	0	0	0
5/14/2024 10:00	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/14/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
5/14/2024 10:00	65005	NEFF_T2	2	1	-1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/14/2024 10:00	51102	CARL_T1	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
5/14/2024 10:00	58003	WCAR_T1	1	1	0	1	1.4	0.4	0.83	0.86	0	0	0	0	0	0
5/14/2024 10:00	12807	MICK_T1	1	1	0	0.5	0.5	0	0.18	0.2	0	0	0	0	0	0
5/14/2024 10:00	60504	NMAN_T2	3	128	125	0.33	0.26	-0.07	0	0	0	0	0	0	0	0
5/14/2024 10:00	23002	SAJO_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/14/2024 10:00	44505	HAMI_T2	0	0	0	0	0	0	0.62	0.52	0	0	0	0	0	0
5/14/2024 10:00	56803	BENV_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
5/14/2024 10:00	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/14/2024 10:00	54502	ENOL_T2	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
5/14/2024 10:00	54203	PENN_T1	18	18	0	0.58	0.93	0.35	0.76	0.79	0	0	0	0	0	0
5/14/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
5/14/2024 10:00	42701	AUGU_T1	1	1	0	0.6	0.9	0.3	0	0	2	2	0	1800	1800	0
5/14/2024 10:00	51004	NHAR_T1	13	13	0	1.1	1.31	0.21	0	0	0	0	0	0	0	0
5/14/2024 10:00	53501	EVIL_T2	2	2	0	0.95	0.7	-0.25	-0.54	-0.77	4	4	0	3000	3000	0
5/14/2024 10:00	24703	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/14/2024 10:00	12604	MACA_T1	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
5/14/2024 10:00	60103	COCA_T2	0	0	0	0	0	0	-0.47	-0.46	2	2	0	2100	2100	0
5/14/2024 10:00	54201	PENN_T1	10	10	0	0.72	0.95	0.23	0	0	0	0	0	0	0	0
5/14/2024 10:00	22401	MORG_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
5/14/2024 10:00	51002	NHAR_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
5/14/2024 10:00	54602	SUMM_T2	0	2	2	0	0.1	0.1	-2.38	-2.41	1	1	0	600	600	0
5/14/2024 10:00	54501	ENOL_T2	1	4	3	0.1	0.25	0.15	0	0	0	0	0	0	0	0
5/14/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-1.83	-1.72	2	2	0	2100	2100	0
5/14/2024 10:00	29401	BELT_T1	27	55	28	0.12	0.19	0.07	0	0	3	3	0	2700	2700	0
5/14/2024 10:00	44502	HAMI_T2	1	1	0	2.3	2.5	0.2	-0.85	-0.89	0	0	0	0	0	0
5/14/2024 10:00	45501	DERR_T2	1	1	0	0.7	0.7	0	0.88	0.92	2	2	0	1800	1800	0
5/14/2024 10:00	17101	WTRE_T2	571	452	-119	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
5/14/2024 10:00	40603	PIGR_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
5/14/2024 10:00	24701	FLND_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
5/14/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	-0.16	-0.1	1	1	0	600	600	0
5/14/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.73	-0.59	0	0	0	0	0	0
5/14/2024 10:00	65001	NEFF_T2	250	243	-7	0.31	0.28	-0.03	-0.44	-0.41	1	1	0	1200	1200	0
5/14/2024 10:00	67502	WEWI_T2	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/14/2024 10:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/14/2024 10:00	16902	MECK_T1	2	2	0	4.3	0.4	-3.9	0.04	0.06	0	0	0	0	0	0
5/14/2024 10:00	59003	MIFF_T1	0	2	2	0	0.1	0.1	-0.11	-0.98	0	0	0	0	0	0
5/14/2024 10:00	24902	WHHA_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
5/14/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/14/2024 10:00	43104	SMIL_T2	2	0	-2	0.2	0	-0.2	-0.82	-0.81	1	1	0	300	300	0
5/14/2024 10:00	43105	SMIL_T2	10	2	-8	0.37	0.15	-0.22	0	0	0	0	0	0	0	0
5/14/2024 10:00	45602	WOOL_T1	3	5	2	0.9	0.62	-0.28	0.62	0.56	0	0	0	0	0	0
5/14/2024 10:00	66302	MCGO_T2	0	2	2	0	0.2	0.2	-0.91	-0.92	1	1	0	600	600	0
5/14/2024 10:00	64801	MONE_T2	1	1	0	0.3	0.5	0.2	0.26	0.25	0	0	0	0	0	0
5/14/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	-1.05	-0.93	1	1	0	600	600	0
5/14/2024 10:00	11901	ETEX_T2	0	0	0	0	0	0	0.7	0.76	0	0	0	0	0	0
5/14/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
5/14/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
5/14/2024 10:00	58803	COCO_T1	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
5/14/2024 10:00	62607	ENGL_T1	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
5/14/2024 10:00	40601	PIGR_T1	5	13	8	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
5/14/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	0.42	0.37	0	0	0	0	0	0
5/14/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
5/14/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	1.06	0.96	0	0	0	0	0	0
5/14/2024 10:00	60501	NMAN_T2	343	615	272	0.35	0.77	0.42	0	0	0	0	0	0	0	0
5/14/2024 10:00	40602	PIGR_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/14/2024 10:00	67002	STHI_T2	0	1	1	0	0.1	0.1	0.67	0.68	0	0	0	0	0	0
5/14/2024 10:00	65604	QVIL_T2	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
5/14/2024 10:00	11101	EGYP_T1	0	0	0	0	0	0	3.34	3.39	0	0	0	0	0	0
5/14/2024 10:00	16901	MECK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/14/2024 10:00	54505	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
5/14/2024 10:00	57106	SPHI_T2	3	3	0	0.7	1.17	0.47	0	0	0	0	0	0	0	0
5/14/2024 10:00	47002	HUGH_T2	0	0	0	0	0	0	-0.58	-0.63	0	0	0	0	0	0
5/14/2024 10:00	42903	MIDD_T2	0	0	0	0	0	0	0.71	0.81	1	1	0	1200	1200	0
5/14/2024 10:00	55003	NEWP_T2	11	10	-1	0.29	0.24	-0.05	-0.1	-0.13	0	0	0	0	0	0
5/14/2024 10:00	22404	MORG_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/14/2024 10:00	62605	ENGL_T1	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
5/14/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
5/14/2024 10:00	61302	EARL_T1	0	0	0	0	0	0	0.01	0.04	3	3	0	2700	2700	0
5/14/2024 10:00	56701	SMEC_T1	0	0	0	0	0	0	0.2	0.39	0	0	0	0	0	0
5/14/2024 10:00	63801	HEMP_T1	0	0	0	0	0	0	-0.26	0.48	1	1	0	900	900	0
5/14/2024 10:00	46001	BERW_T1	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
5/14/2024 10:00	53901	HALI_T2	1	2	1	1	1.3	0.3	-1.53	-1.52	0	0	0	0	0	0
5/14/2024 10:00	45702	LIND_T2	1	1	0	0.2	0.5	0.3	-0.48	-0.47	0	0	0	0	0	0
5/14/2024 10:00	53902	HALI_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
5/14/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.27	1.34	0	0	0	0	0	0
5/14/2024 10:00	57104	SPHI_T2	0	1	1	0	0	0	-0.15	-0.16	0	0	0	0	0	0
5/14/2024 10:00	67001	STHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/14/2024 10:00	43103	SMIL_T2	22	22	0	0.86	0.6	-0.26	0	0	0	0	0	0	0	0
5/14/2024 10:00	12802	MICK_T1	0	0	0	0	0	0	-1.06	-1.01	0	0	0	0	0	0
5/14/2024 10:00	57101	SPHI_T2	6	6	0	0.97	1.17	0.2	0	0	0	0	0	0	0	0
5/14/2024 10:00	43102	SMIL_T2	6	6	0	0.8	0.47	-0.33	0	0	0	0	0	0	0	0
5/14/2024 10:00	57506	LAWN_T3	0	0	0	0	0	0	0.58	0.61	1	1	0	600	600	0
5/14/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/14/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
5/14/2024 10:06	50501	MECH_T1	3	4	1	0.23	0.65	0.42	0	0	0	0	0	0	0	0
5/14/2024 10:06	50502	MECH_T1	1	1	0	1.6	2.1	0.5	0	0	0	0	0	0	0	0
5/14/2024 10:06	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/14/2024 10:06	40701	FFLD_T1	27	28	1	0.17	0.21	0.04	0	0	0	0	0	0	0	0
5/14/2024 10:06	40703	FFLD_T1	1	1	0	0.1	0.2	0.1	0.35	0.29	0	0	0	0	0	0
5/14/2024 10:06	22102	EDEL_T1	0	0	0	0	0	0	-0.34	-0.71	1	1	0	1200	1200	0
5/14/2024 10:06	40101	HUNT_T2	1	1	0	1	0	-1	-0.15	-0.13	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/14/2024 10:06	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/14/2024 10:06	50505	MECH_T1	0	0	0	0	0	0	-0.9	-0.94	0	0	0	0	0	0
5/14/2024 10:06	40702	FFLD_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/14/2024 10:07	59102	WALK_T2	0	0	0	0	0	0	-0.16	-0.1	1	1	0	600	600	0
5/14/2024 10:07	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
5/14/2024 10:07	65702	RVIL_T2	0	0	0	0	0	0	-0.92	-0.91	1	1	0	600	600	0
5/14/2024 10:07	53802	MBRG_T2	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
5/14/2024 10:07	51401	LYKE_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
5/14/2024 10:07	56501	ROCK_T2	2	2	0	0.6	0.8	0.2	-0.01	-0.01	0	0	0	0	0	0
5/14/2024 10:07	67603	WARW_T1	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
5/14/2024 10:07	40901	JESH_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
5/14/2024 10:07	58402	MORO_T1	0	0	0	0	0	0	-0.03	-0.05	2	2	0	1500	1500	0
5/14/2024 10:07	58401	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/14/2024 10:07	43301	WATS_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/14/2024 10:07	52503	PROG_T2	0	0	0	0	0	0	-0.62	-0.53	1	1	0	900	900	0
5/14/2024 10:07	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/14/2024 10:07	67605	WARW_T1	32	32	0	0.55	0.55	0	0	0	0	0	0	0	0	0
5/14/2024 10:07	13101	NHAM_T1	19	38	19	0.26	0.24	-0.02	-2.26	-2.28	2	2	0	2100	2100	0
5/14/2024 10:07	42302	MOWR_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
5/14/2024 10:07	40902	JESH_T1	0	0	0	0	0	0	0.12	0.1	1	1	0	600	600	0
5/14/2024 10:08	48302	ORWI_T2	2	2	0	0.35	0.55	0.2	0.01	0.02	0	0	0	0	0	0
5/14/2024 10:08	40201	BEGA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/14/2024 10:08	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/14/2024 10:08	52006	LING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/14/2024 10:08	52002	LING_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
5/14/2024 10:08	60701	BREC_T1	0	0	0	0	0	0	0.49	0.41	1	1	0	600	600	0
5/14/2024 10:08	16102	BING_T2	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
5/14/2024 10:08	63306	GREE_T1	0	0	0	0	0	0	-1.11	-1.11	0	0	0	0	0	0
5/14/2024 10:08	58001	WCAR_T1	4	4	0	0.73	1.03	0.3	0	0	0	0	0	0	0	0
5/14/2024 10:08	41902	REED_T1	0	0	0	0	0	0	1.09	1.08	0	0	0	0	0	0
5/14/2024 10:08	17001	RIRO_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
5/14/2024 10:08	63302	GREE_T1	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
5/14/2024 10:08	58401	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/14/2024 10:08	67402	WAKE_T2	0	0	0	0	0	0	0.26	0.32	1	1	0	600	600	0
5/14/2024 10:08	16605	PONO_T1	0	0	0	0	0	0	-0.51	-0.58	1	1	0	1200	1200	0
5/14/2024 10:08	58003	WCAR_T1	1	1	0	1	1.4	0.4	0.86	0.84	0	0	0	0	0	0
5/14/2024 10:08	52004	LING_T2	1	1	0	0.1	0.5	0.4	0.32	0.31	0	0	0	0	0	0
5/14/2024 10:08	58402	MORO_T1	0	0	0	0	0	0	-0.05	-0.31	2	2	0	1500	1500	0
5/14/2024 10:09	15404	WALL_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
5/14/2024 10:09	46203	DANV_T2	0	0	0	0	0	0	0.54	0.48	0	0	0	0	0	0
5/14/2024 10:09	13704	SCHN_T2	1	1	0	0.1	0.2	0.1	-0.3	-0.3	0	0	0	0	0	0
5/14/2024 10:10	45502	DERR_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/14/2024 10:10	45501	DERR_T2	1	1	0	0.7	0.7	0	0.92	0.94	2	2	0	1800	1800	0
5/14/2024 10:10	58006	WCAR_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
5/14/2024 10:10	58002	WCAR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/14/2024 10:11	45501	DERR_T2	1	1	0	0.7	0.7	0	0.92	0.94	2	2	0	1800	1800	0
5/14/2024 10:11	45502	DERR_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/14/2024 10:12	58001	WCAR_T1	4	4	0	0.73	1.03	0.3	0	0	0	0	0	0	0	0
5/14/2024 10:12	58003	WCAR_T1	1	1	0	1	1.4	0.4	0.86	0.84	0	0	0	0	0	0
5/14/2024 10:14	14203	EALL_T1	0	0	0	0	0	0	-0.2	-0.15	1	1	0	1200	1200	0
5/14/2024 10:14	14207	EALL_T1	1	1	0	2.9	2.6	-0.3	0	0	0	0	0	0	0	0
5/14/2024 10:14	47001	HUGH_T2	0	0	0	0	0	0	-0.19	-0.12	0	0	0	0	0	0
5/14/2024 10:14	45502	DERR_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/14/2024 10:14	45501	DERR_T2	1	1	0	0.7	0.7	0	0.92	0.94	2	2	0	1800	1800	0
5/14/2024 10:15	47001	HUGH_T2	0	0	0	0	0	0	-0.19	-0.12	0	0	0	0	0	0
5/14/2024 10:16	61506	EPET_T2	0	0	0	0	0	0	-0.8	-0.75	1	1	0	900	900	0
5/14/2024 10:16	61503	EPET_T1	0	0	0	0	0	0	-0.13	-0.19	0	0	0	0	0	0
5/14/2024 10:16	61501	EPET_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
5/14/2024 10:24	65702	RVIL_T2	0	0	0	0	0	0	-1.85	-1.74	2	2	0	1200	1200	0
5/14/2024 10:26	62605	ENGL_T1	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
5/14/2024 10:27	45602	WOOL_T1	5	3	-2	0.6	0.97	0.37	0.35	0.31	0	0	0	0	0	0
5/14/2024 10:28	65702	RVIL_T2	0	0	0	0	0	0	-0.93	-0.87	1	1	0	600	600	0
5/14/2024 10:29	62607	ENGL_T1	0	0	0	0	0	0	-0.83	-0.8	0	0	0	0	0	0
5/14/2024 10:30	45602	WOOL_T1	3	2	-1	0.97	0.6	-0.37	0.35	0.31	0	0	0	0	0	0
5/14/2024 10:32	53901	HALI_T2	1	8	7	0.8	0.25	-0.55	-1.46	-1.47	0	0	0	0	0	0
5/14/2024 10:32	53903	HALI_T2	2	4	2	1.3	1.05	-0.25	0	0	0	0	0	0	0	0
5/14/2024 10:32	53902	HALI_T2	1	2	1	5.3	3.05	-2.25	0	0	0	0	0	0	0	0
5/14/2024 10:34	62605	ENGL_T1	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
5/14/2024 10:35	62607	ENGL_T1	0	0	0	0	0	0	-0.83	-0.8	0	0	0	0	0	0
5/14/2024 10:39	67703	WERN_T2	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
5/14/2024 10:39	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/14/2024 10:40	60901	DONG_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/14/2024 10:40	60904	DONG_T2	3	17	14	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
5/14/2024 10:40	60903	DONG_T2	1	4	3	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
5/14/2024 10:40	60902	DONG_T2	6	9	3	0.17	0.21	0.04	0.98	1.01	0	0	0	0	0	0
5/14/2024 10:44	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/14/2024 10:50	13704	SCHN_T2	1	1	0	0.2	0.4	0.2	-0.3	-0.31	0	0	0	0	0	0
5/14/2024 10:54	22003	BOHE_T1	18	122	104	0.87	0.28	-0.59	0	0	0	0	0	0	0	0
5/14/2024 10:54	22002	BOHE_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/14/2024 10:54	22001	BOHE_T1	21	142	121	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
5/14/2024 10:56	16301	ALPA_T1	0	0	0	0	0	0	-0.38	-0.34	0	0	0	0	0	0
5/14/2024 10:56	22003	BOHE_T1	18	122	104	0.87	0.28	-0.59	0	0	0	0	0	0	0	0
5/14/2024 10:56	22002	BOHE_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/14/2024 10:56	22001	BOHE_T1	21	142	121	0.21	0.2	-0.01	0.25	0.25	0	0	0	0	0	0
5/14/2024 10:58	24105	EHAZ_T1	4	4	0	6.58	6.35	-0.23	0	0	0	0	0	0	0	0
5/14/2024 10:58	24104	EHAZ_T1	0	4	4	0	0.13	0.13	-2.13	-2.23	1	1	0	1200	1200	0
5/14/2024 10:58	24102	EHAZ_T1	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
5/14/2024 10:58	24101	EHAZ_T1	1	18	17	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
5/14/2024 10:58	62607	ENGL_T1	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
5/14/2024 10:59	42902	MIDD_T2	0	1	1	0	0.5	0.5	-0.51	-0.58	1	1	0	600	600	0
5/14/2024 11:00	42902	MIDD_T2	0	1	1	0	0.5	0.5	-0.51	-0.58	1	1	0	600	600	0
5/14/2024 11:00	62607	ENGL_T1	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
5/14/2024 11:01	42902	MIDD_T2	0	1	1	0	0.5	0.5	-0.51	-0.58	1	1	0	600	600	0
5/14/2024 11:01	62602	ENGL_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/14/2024 11:09	42501	ALTA_T2	0	0	0	0	0	0	0.2	0.18	1	1	0	600	600	0
5/14/2024 11:12	58002	WCAR_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/14/2024 11:12	58006	WCAR_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
5/14/2024 11:13	42902	MIDD_T2	0	1	1	0	0.5	0.5	-0.58	-0.55	1	1	0	600	600	0
5/14/2024 11:19	56501	ROCK_T2	2	0	-2	0.55	0	-0.55	-0.01	-0.01	0	0	0	0	0	0
5/14/2024 11:20	56501	ROCK_T2	2	0	-2	0.55	0	-0.55	-0.01	-0.01	0	0	0	0	0	0
5/14/2024 11:24	67605	WARW_T1	26	20	-6	0.55	0.61	0.06	-1.1	-1.1	0	0	0	0	0	0
5/14/2024 11:24	67603	WARW_T1	0	0	0	0	0	0	0	-0.05	0	0	0	0	0	0
5/14/2024 11:27	42902	MIDD_T2	1	1	0	0.5	0.5	0	-0.55	-0.6	1	1	0	600	600	0
5/14/2024 11:29	67605	WARW_T1	26	20	-6	0.55	0.61	0.06	-1.1	-1.1	0	0	0	0	0	0
5/14/2024 11:32	51002	NHAR_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/14/2024 11:32	42902	MIDD_T2	1	0	-1	0.5	0	-0.5	-0.55	-0.6	1	1	0	600	600	0
5/14/2024 11:32	51004	NHAR_T1	13	13	0	1.12	1.17	0.05	-0.38	-0.37	0	0	0	0	0	0
5/14/2024 11:32	51003	NHAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/14/2024 11:36	45402	WBLO_T2	1	1	0	1.1	1.3	0.2	-0.67	-0.66	0	0	0	0	0	0
5/14/2024 11:37	15103	UPHA_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
5/14/2024 11:40	53601	DALM_T2	1	2	1	0.6	0.9	0.3	0.13	0.37	0	0	0	0	0	0
5/14/2024 11:43	24702	FLND_T2	0	0	0	0	0	0	0.55	0.56	1	1	0	1200	1200	0
5/14/2024 11:46	40101	HUNT_T2	0	0	0	0	0	0	-0.91	-0.94	0	0	0	0	0	0
5/14/2024 11:48	41902	REED_T1	0	0	0	0	0	0	1.04	0.97	0	0	0	0	0	0
5/14/2024 11:48	58001	WCAR_T1	4	4	0	0.38	0.63	0.25	0	0	0	0	0	0	0	0
5/14/2024 11:48	58003	WCAR_T1	1	5	4	1.4	0.42	-0.98	0.13	0.24	1	1	0	600	600	0
5/14/2024 11:50	65502	MOJO_T2	0	23	23	0	0.11	0.11	0	0	0	0	0	0	0	0
5/14/2024 11:50	65503	MOJO_T2	2	136	134	0.1	0.14	0.04	-0.68	-0.7	1	1	0	900	900	0
5/14/2024 11:54	41902	REED_T1	0	0	0	0	0	0	0.97	1.03	0	0	0	0	0	0
5/14/2024 11:54	13701	SCHN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/14/2024 11:54	13704	SCHN_T2	1	1	0	0.5	0.5	0	-0.29	-0.27	0	0	0	0	0	0
5/14/2024 11:58	14204	EALL_T2	0	4	4	0	0.25	0.25	-0.26	-0.37	0	0	0	0	0	0
5/14/2024 12:03	28805	LAKE_T1	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
5/14/2024 12:04	44502	HAMI_T2	1	1	0	2.3	2.5	0.2	-0.81	-0.83	0	0	0	0	0	0
5/14/2024 12:04	43201	MVIL_T2	2	3	1	0.25	0.37	0.12	-0.36	-0.35	0	0	0	0	0	0
5/14/2024 12:04	44505	HAMI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/14/2024 12:04	43202	MVIL_T2	173	179	6	1.03	1.09	0.06	-0.6	-0.59	0	0	0	0	0	0
5/14/2024 12:07	43801	SWIL_T1	1	2	1	4.7	2.65	-2.05	0	0	0	0	0	0	0	0
5/14/2024 12:07	43802	SWIL_T1	0	1	1	0	0.2	0.2	0.54	0.54	0	0	0	0	0	0
5/14/2024 12:07	65205	PRIN_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/14/2024 12:07	43201	MVIL_T2	2	3	1	0.25	0.37	0.12	0	0	0	0	0	0	0	0
5/14/2024 12:07	43202	MVIL_T2	173	179	6	1.03	1.09	0.06	-0.6	-0.59	0	0	0	0	0	0
5/14/2024 12:08	42802	SELI_T1	1	0	-1	0.4	0	-0.4	-0.62	-0.65	1	1	0	900	900	0
5/14/2024 12:09	42802	SELI_T1	1	0	-1	0.4	0	-0.4	-0.65	-0.63	1	1	0	900	900	0
5/14/2024 12:40	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/14/2024 12:44	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/14/2024 14:38	67503	WEWI_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
5/14/2024 19:15	45602	WOOL_T1	1	1	0	0.3	0.1	-0.2	0.46	0.45	0	0	0	0	0	0
5/14/2024 20:03	46004	BERW_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
5/14/2024 20:25	46301	ROHR_T1	377	382	5	0.95	0.91	-0.04	0	0	0	0	0	0	0	0
5/14/2024 20:25	46302	ROHR_T1	208	210	2	0.62	0.63	0.01	0.17	0.16	0	0	0	0	0	0
5/14/2024 20:26	65702	RVIL_T2	0	0	0	0	0	0	-0.97	-0.97	1	1	0	600	600	0
5/14/2024 20:27	66505	SMAN_T2	3	3	0	0.1	0.53	0.43	0	0	0	0	0	0	0	0
5/14/2024 20:27	66504	SMAN_T2	0	0	0	0	0	0	-1.35	-1.47	0	0	0	0	0	0
5/14/2024 20:28	46301	ROHR_T1	377	382	5	0.95	0.91	-0.04	0.21	0.21	0	0	0	0	0	0
5/14/2024 20:28	46302	ROHR_T1	208	210	2	0.62	0.63	0.01	0	0	0	0	0	0	0	0
5/14/2024 20:29	65702	RVIL_T2	0	0	0	0	0	0	-0.97	-0.97	1	1	0	600	600	0
5/14/2024 20:36	45602	WOOL_T1	2	2	0	0.3	0.6	0.3	0.43	0.41	0	0	0	0	0	0
5/14/2024 20:46	65702	RVIL_T2	0	0	0	0	0	0	-0.97	-0.99	1	1	0	600	600	0
5/14/2024 20:51	62607	ENGL_T1	1	1	0	0.6	0.4	-0.2	-1.1	-1.1	1	1	0	300	300	0
5/14/2024 20:51	62605	ENGL_T1	7	3	-4	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
5/14/2024 20:55	62605	ENGL_T1	7	3	-4	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
5/14/2024 20:55	67204	TEHI_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
5/14/2024 20:55	62607	ENGL_T1	1	1	0	0.6	0.4	-0.2	-1.1	-0.77	1	0	-1	300	0	-300
5/14/2024 20:57	67204	TEHI_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
5/14/2024 21:08	58006	WCAR_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
5/14/2024 21:11	62605	ENGL_T1	3	0	-3	0.1	0	-0.1	-0.77	-0.78	0	0	0	0	0	0
5/14/2024 21:11	62607	ENGL_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
5/14/2024 21:12	62605	ENGL_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/14/2024 21:12	62607	ENGL_T1	1	1	0	0.4	0.9	0.5	-0.77	-0.76	0	0	0	0	0	0
5/14/2024 21:13	58003	WCAR_T1	46	38	-8	0.24	0.22	-0.02	0.64	0.64	0	0	0	0	0	0
5/14/2024 21:13	67605	WARW_T1	27	36	9	0.61	0.57	-0.04	0	0	0	0	0	0	0	0
5/14/2024 21:13	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/14/2024 21:13	58001	WCAR_T1	8	7	-1	0.81	0.89	0.08	0	0	0	0	0	0	0	0
5/14/2024 21:14	51004	NHAR_T1	12	6	-6	1.03	1.27	0.24	-0.43	-0.44	0	0	0	0	0	0
5/14/2024 21:14	51002	NHAR_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
5/14/2024 21:23	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/14/2024 21:25	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/14/2024 21:27	61506	EPET_T2	0	0	0	0	0	0	-1.21	-1.23	1	1	0	900	900	0
5/14/2024 21:27	61501	EPET_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
5/14/2024 21:28	61503	EPET_T1	0	0	0	0	0	0	-0.96	-1.03	0	0	0	0	0	0
5/14/2024 21:31	52004	LING_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
5/14/2024 21:31	52002	LING_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/14/2024 21:31	52006	LING_T2	2	2	0	0.3	0.85	0.55	0	0	0	0	0	0	0	0
5/14/2024 21:31	58001	WCAR_T1	4	12	8	1.4	0.78	-0.62	0	0	0	0	0	0	0	0
5/14/2024 21:31	58003	WCAR_T1	12	76	64	0.3	0.41	0.11	0.64	0.62	0	0	0	0	0	0
5/14/2024 21:34	17002	RIRO_T2	0	7	7	0	0.12	0.12	0.31	0.33	0	0	0	0	0	0
5/14/2024 21:35	58003	WCAR_T1	12	76	64	0.3	0.41	0.11	0.64	0.62	0	0	0	0	0	0
5/14/2024 21:35	58001	WCAR_T1	4	12	8	1.4	0.78	-0.62	0	0	0	0	0	0	0	0
5/14/2024 21:35	55003	NEWP_T2	9	14	5	0.39	0.72	0.33	-0.11	-0.12	0	0	0	0	0	0
5/14/2024 21:35	14204	EALL_T2	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
5/14/2024 21:36	42902	MIDD_T2	0	0	0	0	0	0	-0.48	-0.54	0	0	0	0	0	0
5/14/2024 21:36	43201	MVIL_T2	57	76	19	0.19	0.23	0.04	0	0	0	0	0	0	0	0
5/14/2024 21:36	43202	MVIL_T2	377	484	107	0.88	0.91	0.03	-0.68	-0.7	0	0	0	0	0	0
5/14/2024 21:36	42903	MIDD_T2	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
5/14/2024 21:36	54201	PENN_T1	10	10	0	0.34	0.7	0.36	0	0	0	0	0	0	0	0
5/14/2024 21:36	54203	PENN_T1	18	18	0	0.79	1.06	0.27	0	0.03	1	1	0	600	600	0
5/14/2024 21:37	13704	SCHN_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
5/14/2024 21:40	15103	UPHA_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
5/14/2024 21:40	45402	WBLO_T2	1	2	1	1.5	0.9	-0.6	-0.85	-0.85	0	0	0	0	0	0
5/14/2024 21:43	14203	EALL_T1	0	0	0	0	0	0	-0.39	-0.41	1	1	0	1200	1200	0
5/14/2024 21:43	42903	MIDD_T2	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
5/14/2024 21:43	42902	MIDD_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
5/14/2024 21:46	24701	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/14/2024 21:46	53501	EVIL_T2	2	3	1	0.8	0.8	0	-1.29	-0.89	2	1	-1	1200	600	-600
5/14/2024 21:46	62607	ENGL_T1	1	3	2	0.7	0.13	-0.57	0	0	0	0	0	0	0	0
5/14/2024 21:46	62605	ENGL_T1	0	7	7	0	0.17	0.17	-0.73	-0.77	0	0	0	0	0	0
5/14/2024 21:46	42903	MIDD_T2	2	2	0	1.15	0.15	-1	0	0	0	0	0	0	0	0
5/14/2024 21:46	62604	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/14/2024 21:46	42902	MIDD_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
5/14/2024 21:46	24702	FLND_T2	0	0	0	0	0	0	1.03	-0.26	0	1	1	0	1200	1200
5/14/2024 21:48	65205	PRIN_T1	1	1	0	1.7	2.1	0.4	0	0	0	0	0	0	0	0
5/14/2024 21:48	65202	PRIN_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
5/14/2024 21:49	24102	EHAZ_T1	1	2	1	0.6	1	0.4	0	0	0	0	0	0	0	0
5/14/2024 21:49	24104	EHAZ_T1	0	0	0	0	0	0	-1.01	-0.99	1	1	0	1200	1200	0
5/14/2024 21:49	24105	EHAZ_T1	4	4	0	6.3	6.08	-0.22	0	0	0	0	0	0	0	0
5/14/2024 21:50	40101	HUNT_T2	0	2	2	0	0.15	0.15	-1.1	-1.08	0	0	0	0	0	0
5/14/2024 21:51	62607	ENGL_T1	1	3	2	0.7	0.13	-0.57	-0.76	-0.78	0	0	0	0	0	0
5/14/2024 21:51	62605	ENGL_T1	0	7	7	0	0.17	0.17	0	0	0	0	0	0	0	0
5/14/2024 21:51	62604	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/14/2024 21:55	43201	MVIL_T2	69	81	12	0.23	0.26	0.03	0	0	0	0	0	0	0	0
5/14/2024 21:55	43202	MVIL_T2	470	502	32	0.92	0.89	-0.03	-0.71	-0.69	0	0	0	0	0	0
5/14/2024 21:56	45902	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/14/2024 21:57	42903	MIDD_T2	2	2	0	1.15	0.15	-1	0	0	0	0	0	0	0	0
5/14/2024 21:57	42802	SELI_T1	1	1	0	0.8	1.1	0.3	-1.01	-1.01	1	1	0	900	900	0
5/14/2024 21:57	43201	MVIL_T2	69	81	12	0.23	0.26	0.03	-0.39	-0.4	0	0	0	0	0	0
5/14/2024 21:57	42902	MIDD_T2	0	0	0	0	0	0	-1.1	-1.18	0	0	0	0	0	0
5/14/2024 21:57	43202	MVIL_T2	470	502	32	0.92	0.89	-0.03	0	0	0	0	0	0	0	0
5/14/2024 21:58	42902	MIDD_T2	0	0	0	0	0	0	-0.55	-0.59	0	0	0	0	0	0
5/14/2024 21:58	42903	MIDD_T2	2	2	0	1.15	0.15	-1	0	0	0	0	0	0	0	0
5/14/2024 21:59	60902	DONG_T2	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
5/14/2024 22:00	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/14/2024 22:00	62605	ENGL_T1	0	7	7	0	0.2	0.2	0	0	0	0	0	0	0	0
5/14/2024 22:00	23001	SAJO_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
5/14/2024 22:00	62602	ENGL_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
5/14/2024 22:00	49804	UNIV_T1	0	1	1	0	0.2	0.2	0.41	0.4	0	0	0	0	0	0
5/14/2024 22:00	62607	ENGL_T1	1	5	4	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
5/14/2024 22:01	43802	SWIL_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
5/14/2024 22:01	43801	SWIL_T1	2	2	0	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
5/14/2024 22:01	42802	SELI_T1	1	1	0	1.1	0.9	-0.2	-1.01	-1.01	1	1	0	900	900	0
5/14/2024 22:02	13704	SCHN_T2	1	4	3	1.5	0.13	-1.37	-0.4	-0.41	0	0	0	0	0	0
5/14/2024 22:08	13704	SCHN_T2	1	4	3	1.5	0.13	-1.37	-0.4	-0.41	0	0	0	0	0	0
5/14/2024 22:44	44502	HAMI_T2	1	1	0	3.4	3.4	0	-0.97	-0.96	0	0	0	0	0	0
5/15/2024 0:32	23001	SAJO_T1	0	0	0	0	0	0	-0.95	-0.91	0	0	0	0	0	0
5/15/2024 10:00	65003	NEFF_T2	4	20	16	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
5/15/2024 10:00	17102	WTRE_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
5/15/2024 10:00	42701	AUGU_T1	1	1	0	0.9	1	0.1	0	0	2	2	0	1800	1800	0
5/15/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.18	0.05	0	0	0	0	0	0
5/15/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-1.92	-1.94	6	6	0	4800	4800	0
5/15/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
5/15/2024 10:00	22405	MORG_T2	0	0	0	0	0	0	-0.17	-0.14	0	0	0	0	0	0
5/15/2024 10:00	65001	NEFF_T2	0	2	2	0	0.1	0.1	-0.28	-0.35	1	1	0	1200	1200	0
5/15/2024 10:00	52002	LING_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/15/2024 10:00	40505	CRES_T1	3	4	1	4.8	4.5	-0.3	0.27	0.29	0	0	0	0	0	0
5/15/2024 10:00	12502	MITR_T2	1	1	0	6.9	7	0.1	0	0	0	0	0	0	0	0
5/15/2024 10:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 10:00	60101	COCA_T1	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
5/15/2024 10:00	54001	SDLE_T1	5	9	4	0.68	0.6	-0.08	0	0	1	1	0	600	600	0
5/15/2024 10:00	45602	WOOL_T1	3	3	0	0.97	0.97	0	0.53	0.55	0	0	0	0	0	0
5/15/2024 10:00	58401	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-0.69	-0.6	1	1	0	900	900	0
5/15/2024 10:00	54502	ENOL_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
5/15/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
5/15/2024 10:00	52503	PROG_T2	0	0	0	0	0	0	-0.69	-0.68	1	1	0	900	900	0
5/15/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	0.32	0.43	0	0	0	0	0	0
5/15/2024 10:00	15404	WALL_T1	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
5/15/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	-0.91	-0.86	1	1	0	600	600	0
5/15/2024 10:00	51006	NHAR_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/15/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	1.5	1.38	0	0	0	0	0	0
5/15/2024 10:00	46206	DANV_T2	13	13	0	2.2	3.29	1.09	0	0	0	0	0	0	0	0
5/15/2024 10:00	11101	EGYP_T1	0	0	0	0	0	0	2.44	2.54	0	0	0	0	0	0
5/15/2024 10:00	64302	LINC_T2	0	0	0	0	0	0	1.03	1.08	0	0	0	0	0	0
5/15/2024 10:00	58001	WCAR_T1	4	4	0	1.05	1.35	0.3	0.7	0.73	0	0	0	0	0	0
5/15/2024 10:00	51004	NHAR_T1	12	13	1	1.03	1.47	0.44	0	0	0	0	0	0	0	0
5/15/2024 10:00	40702	FELD_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/15/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	0.04	-0.06	1	1	0	1200	1200	0
5/15/2024 10:00	62106	ELAN_T1	0	0	0	0	0	0	1.19	1.21	0	0	0	0	0	0
5/15/2024 10:00	24103	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 10:00	12807	MICK_T1	0	1	1	0	0.2	0.2	0.2	0.21	0	0	0	0	0	0
5/15/2024 10:00	45502	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 10:00	60501	NMAN_T2	3	3	0	4.43	4.53	0.1	0	0	0	0	0	0	0	0
5/15/2024 10:00	67001	STHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/15/2024 10:00	63804	HEMP_T1	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
5/15/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/15/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-0.36	-0.52	0	0	0	0	0	0
5/15/2024 10:00	24101	EHAZ_T1	1	4	3	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/15/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.18	1	1	0	600	600	0
5/15/2024 10:00	54505	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
5/15/2024 10:00	44201	POIN_T1	0	3	3	0	0.1	0.1	-1.45	-1.52	2	2	0	2100	2100	0
5/15/2024 10:00	54602	SUMM_T2	0	3	3	0	0.1	0.1	-2.44	-2.4	1	1	0	600	600	0
5/15/2024 10:00	63801	HEMP_T1	0	0	0	0	0	0	-1.14	-1.05	1	1	0	900	900	0
5/15/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
5/15/2024 10:00	40902	JESH_T1	1	5	4	0.1	0.12	0.02	-0.92	-0.88	0	0	0	0	0	0
5/15/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
5/15/2024 10:00	46506	LOHA_T1	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
5/15/2024 10:00	53903	HALI_T2	2	2	0	1.7	2	0.3	0	0	0	0	0	0	0	0
5/15/2024 10:00	24701	FLND_T2	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
5/15/2024 10:00	13101	NHAM_T1	0	0	0	0	0	0	-2.2	-1.85	2	2	0	2100	2100	0
5/15/2024 10:00	53501	EVIL_T2	2	2	0	1.1	0.85	-0.25	-0.26	-0.27	2	2	0	1500	1500	0
5/15/2024 10:00	24105	EHAZ_T1	4	4	0	6.33	6.43	0.1	-0.64	-0.65	1	1	0	1200	1200	0
5/15/2024 10:00	67603	WARW_T1	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
5/15/2024 10:00	50701	SMEC_T1	0	1	1	0	0.1	0.1	0.34	0.33	0	0	0	0	0	0
5/15/2024 10:00	56501	ROCK_T2	3	4	1	0.63	0.77	0.14	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 10:00	67605	WARW_T1	39	38	-1	0.75	0.77	0.02	-1.04	-1.1	0	0	0	0	0	0
5/15/2024 10:00	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 10:00	56601	HAMP_T1	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
5/15/2024 10:00	57506	LAWN_T3	0	0	0	0	0	0	0.75	0.73	1	1	0	600	600	0
5/15/2024 10:00	56803	BENV_T1	1	0	-1	2.3	0	-2.3	-0.12	-0.12	0	0	0	0	0	0
5/15/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	-0.39	-0.32	1	1	0	600	600	0
5/15/2024 10:00	22102	EDEL_T1	0	0	0	0	0	0	-0.64	-0.21	1	1	0	1200	1200	0
5/15/2024 10:00	12505	MITR_T2	0	0	0	0	0	0	1.21	1.31	0	0	0	0	0	0
5/15/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	-0.33	-0.83	0	0	0	0	0	0
5/15/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-1.25	-1.21	1	1	0	900	900	0
5/15/2024 10:00	12802	MICK_T1	0	0	0	0	0	0	-1.03	-1.07	0	0	0	0	0	0
5/15/2024 10:00	47002	HUGH_T2	0	0	0	0	0	0	-0.68	-0.59	0	0	0	0	0	0
5/15/2024 10:00	66202	SISP_T2	0	0	0	0	0	0	-1.15	-1.05	0	0	0	0	0	0
5/15/2024 10:00	63302	GREE_T1	0	0	0	0	0	0	0.77	0.65	0	0	0	0	0	0
5/15/2024 10:00	42903	MIDD_T2	0	0	0	0	0	0	0.47	0.5	1	1	0	1200	1200	0
5/15/2024 10:00	62605	ENGL_T1	0	0	0	0	0	0	-0.8	-0.77	0	0	0	0	0	0
5/15/2024 10:00	40903	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 10:00	46501	LOHA_T1	0	0	0	0	0	0	0.28	0.32	1	1	0	1200	1200	0
5/15/2024 10:00	53902	HALI_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
5/15/2024 10:00	58003	WCAR_T1	1	3	2	1.5	0.6	-0.9	0.79	0.81	0	0	0	0	0	0
5/15/2024 10:00	51003	NHAR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 10:00	65503	MOJO_T2	0	0	0	0	0	0	-0.91	-0.89	1	1	0	900	900	0
5/15/2024 10:00	40603	PIGR_T1	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
5/15/2024 10:00	25603	ARRO_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
5/15/2024 10:00	29401	BELT_T1	63	27	-36	0.21	0.13	-0.08	0	0	3	3	0	2700	2700	0
5/15/2024 10:00	53901	HALI_T2	1	1	0	0.9	1	0.1	-0.35	-0.33	0	0	0	0	0	0
5/15/2024 10:00	40601	PIGR_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/15/2024 10:00	54601	SUMM_T2	10	10	0	0.24	0.38	0.14	0	0	0	0	0	0	0	0
5/15/2024 10:00	60103	COCA_T2	0	0	0	0	0	0	-0.38	-0.39	2	2	0	2100	2100	0
5/15/2024 10:00	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 10:00	67703	WERN_T2	0	0	0	0	0	0	-0.21	-0.21	1	1	0	900	900	0
5/15/2024 10:00	45501	DERR_T2	1	1	0	0.8	0.7	-0.1	0.89	0.77	2	2	0	1800	1800	0
5/15/2024 10:00	41902	REED_T1	0	2	2	0	0	0	1.1	1.08	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/15/2024 10:00	43104	SMIL_T2	0	0	0	0	0	0	-0.84	-0.82	1	1	0	300	300	0
5/15/2024 10:00	51401	LYKE_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
5/15/2024 10:00	29402	BELT_T1	1	1	0	8.8	8.8	0	0	0	0	0	0	0	0	0
5/15/2024 10:00	43102	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 10:00	40701	FFLD_T1	30	30	0	0.21	0.23	0.02	0	0	0	0	0	0	0	0
5/15/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 10:00	64801	MONE_T2	1	1	0	0.1	0.6	0.5	0.26	0.27	0	0	0	0	0	0
5/15/2024 10:00	40703	FFLD_T1	1	1	0	0.1	0.2	0.1	0.39	0.3	0	0	0	0	0	0
5/15/2024 10:00	16902	MECK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 10:00	46203	DANV_T2	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
5/15/2024 10:00	51402	LYKE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 10:00	62607	ENGL_T1	0	0	0	0	0	0	-0.81	-0.8	0	0	0	0	0	0
5/15/2024 10:00	24902	WHHA_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
5/15/2024 10:00	16102	BING_T2	0	0	0	0	0	0	0.09	0.19	0	0	0	0	0	0
5/15/2024 10:00	56801	BENV_T1	9	15	6	0.67	0.75	0.08	-0.33	-0.31	1	1	0	600	600	0
5/15/2024 10:00	62105	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 10:00	67002	STHI_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
5/15/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-1.01	-1.1	1	1	0	600	600	0
5/15/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
5/15/2024 10:00	44505	HAMI_T2	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
5/15/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.27	-0.33	0	0	0	0	0	0
5/15/2024 10:00	58102	NEKI_T1	1	1	0	0.8	0.9	0.1	0.38	0.46	0	0	0	0	0	0
5/15/2024 10:00	40901	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 10:00	17101	WTRE_T2	682	495	-187	0.43	0.42	-0.01	0	0	0	0	0	0	0	0
5/15/2024 10:00	51002	NHAR_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
5/15/2024 10:00	11901	ETEX_T2	0	0	0	0	0	0	0.78	0.72	0	0	0	0	0	0
5/15/2024 10:00	12604	MACA_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
5/15/2024 10:00	52006	LING_T2	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
5/15/2024 10:00	52004	LING_T2	1	1	0	0.4	0.7	0.3	0.32	0.35	0	0	0	0	0	0
5/15/2024 10:00	27502	WEIS_T2	0	0	0	0	0	0	0.52	0.24	0	0	0	0	0	0
5/15/2024 10:00	54501	ENOL_T2	4	4	0	0.15	0.43	0.28	0	0	0	0	0	0	0	0
5/15/2024 10:00	63304	GREE_T1	0	0	0	0	0	0	-0.51	-0.47	0	0	0	0	0	0
5/15/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
5/15/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.14	0	0	0	0	0	0
5/15/2024 10:00	46504	LOHA_T1	2	2	0	0.45	0.75	0.3	0	0	0	0	0	0	0	0
5/15/2024 10:00	57505	LAWN_T3	10	12	2	0.3	0.31	0.01	0	0	0	0	0	0	0	0
5/15/2024 10:00	43103	SMIL_T2	0	16	16	0	0.25	0.25	0	0	0	0	0	0	0	0
5/15/2024 10:00	44502	HAMI_T2	1	2	1	3.2	1.75	-1.45	-0.87	-0.9	0	0	0	0	0	0
5/15/2024 10:00	59102	WALK_T2	0	0	0	0	0	0	-0.22	-0.16	2	2	0	1200	1200	0
5/15/2024 10:00	61302	EARL_T1	0	0	0	0	0	0	-0.05	-0.11	3	3	0	2700	2700	0
5/15/2024 10:06	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 10:06	53802	MBRG_T2	0	0	0	0	0	0	0.79	0.74	0	0	0	0	0	0
5/15/2024 10:06	50502	MECH_T1	1	1	0	2	2.5	0.5	0	0	0	0	0	0	0	0
5/15/2024 10:06	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/15/2024 10:06	50505	MECH_T1	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
5/15/2024 10:06	57106	SPHI_T2	3	3	0	0.87	1.07	0.2	0	0	0	0	0	0	0	0
5/15/2024 10:06	51702	OBER_T1	2	2	0	3.05	3.2	0.15	-0.41	-0.49	0	0	0	0	0	0
5/15/2024 10:06	57104	SPHI_T2	0	0	0	0	0	0	-0.12	-0.07	0	0	0	0	0	0
5/15/2024 10:06	60801	BUCK_T1	0	0	0	0	0	0	-0.78	-0.64	2	2	0	1200	1200	0
5/15/2024 10:06	57101	SPHI_T2	6	6	0	0.93	1.23	0.3	0	0	0	0	0	0	0	0
5/15/2024 10:06	50501	MECH_T1	4	4	0	1.15	1.35	0.2	0	0	0	0	0	0	0	0
5/15/2024 10:07	45602	WOOL_T1	3	3	0	0.97	0.97	0	0.53	0.55	0	0	0	0	0	0
5/15/2024 10:07	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.18	1	1	0	600	600	0
5/15/2024 10:07	45702	LIND_T2	1	1	0	0.5	0.7	0.2	-0.46	-0.42	0	0	0	0	0	0
5/15/2024 10:07	58803	COCO_T1	1	1	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
5/15/2024 10:07	63306	GREE_T1	0	0	0	0	0	0	-1.15	-1.16	0	0	0	0	0	0
5/15/2024 10:07	52001	LING_T1	0	0	0	0	0	0	0.19	0.23	0	0	0	0	0	0
5/15/2024 10:07	67703	WERN_T2	0	0	0	0	0	0	-0.21	-0.21	1	1	0	900	900	0
5/15/2024 10:07	53501	EVIL_T2	2	2	0	1.1	0.85	-0.25	-0.26	-0.27	2	2	0	1500	1500	0
5/15/2024 10:07	60701	BREC_T1	0	0	0	0	0	0	0.24	0.24	1	1	0	600	600	0
5/15/2024 10:07	45902	AUBU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
5/15/2024 10:07	48302	ORWI_T2	1	1	0	0.2	0.2	0	0.06	0.08	0	0	0	0	0	0
5/15/2024 10:07	65702	RVIL_T2	0	0	0	0	0	0	-0.93	-0.96	1	1	0	600	600	0
5/15/2024 10:08	46001	BERW_T1	0	0	0	0	0	0	0.85	1.08	0	0	0	0	0	0
5/15/2024 10:08	16605	PONO_T1	0	0	0	0	0	0	-0.44	-0.46	1	1	0	1200	1200	0
5/15/2024 10:08	54601	SUMM_T2	10	10	0	0.24	0.38	0.14	-1.84	-1.78	2	2	0	2100	2100	0
5/15/2024 10:08	39601	LNFD_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 10:08	15103	LIPHA_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
5/15/2024 10:08	63401	HONY_T1	0	1	1	0	0	0	1.01	0.95	0	0	0	0	0	0
5/15/2024 10:08	10801	CHHI_T1	0	0	0	0	0	0	-1.4	-1.48	2	2	0	1500	1500	0
5/15/2024 10:08	54602	SUMM_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 10:08	65604	QVIL_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
5/15/2024 10:08	17001	RIRO_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
5/15/2024 10:09	53501	EVIL_T2	2	2	0	1.1	0.85	-0.25	-0.27	-0.35	2	2	0	1500	1500	0
5/15/2024 10:20	67605	WARW_T1	38	36	-2	0.76	0.67	-0.09	-1.1	-1.12	0	0	0	0	0	0
5/15/2024 11:36	58003	WCAR_T1	1	1	0	0.8	1.1	0.3	0.81	0.81	0	0	0	0	0	0
5/15/2024 11:36	58001	WCAR_T1	4	4	0	0.25	0.78	0.53	0	0	0	0	0	0	0	0
5/15/2024 11:37	67804	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 11:37	67803	WLAN_T1	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
5/15/2024 11:38	58001	WCAR_T1	4	4	0	0.25	0.78	0.53	0	0	0	0	0	0	0	0
5/15/2024 11:38	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 11:38	58003	WCAR_T1	1	1	0	0.8	1.1	0.3	0.81	0.82	0	0	0	0	0	0
5/15/2024 11:39	67804	WLAN_T1	0	1	1	0	0.1	0.1	-1.13	-1.13	0	0	0	0	0	0
5/15/2024 11:39	45501	DERR_T2	1	1	0	0.6	0.5	-0.1	0.83	0.8	2	2	0	1800	1800	0
5/15/2024 11:39	67803	WLAN_T1	0	0	0	0	0	0	-0.94	-0.93	0	0	0	0	0	0
5/15/2024 11:39	67703	WERN_T2	0	0	0	0	0	0	-0.1	-0.06	1	1	0	900	900	0
5/15/2024 11:40	67804	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 11:40	67801	WLAN_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
5/15/2024 11:41	62605	ENGL_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
5/15/2024 11:41	67804	WLAN_T1	0	1	1	0	0.1	0.1	-2.26	-2.27	0	0	0	0	0	0
5/15/2024 11:41	67803	WLAN_T1	0	0	0	0	0	0	-0.94	-0.93	0	0	0	0	0	0
5/15/2024 11:41	67703	WERN_T2	0	0	0	0	0	0	-0.1	-0.06	1	1	0	900	900	0
5/15/2024 11:42	67804	WLAN_T1	0	1	1	0	0.1	0.1	-2.26	-2.27	0	0	0	0	0	0
5/15/2024 11:42	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 11:42	11601	CEAL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 11:43	46401	FLEM_T2	18	74	56	0.19	0.19	0	0.53	0.54	0	0	0	0	0	0
5/15/2024 11:43	67703	WERN_T2	0	0	0	0	0	0	-0.1	-0.06	1	1	0	900	900	0
5/15/2024 11:43	46402	FLEM_T2	20	20	0	0.29	0.48	0.19	0	0	0	0	0	0	0	0
5/15/2024 11:46	43202	MVIL_T2	179	179	0	0.88	0.97	0.09	-0.58	-0.58	0	0	0	0	0	0
5/15/2024 11:46	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/15/2024 11:47	62605	ENGL_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
5/15/2024 11:49	40101	HUNT_T2	0	0	0	0	0	0	-0.26	-0.12	0	0	0	0	0	0
5/15/2024 11:50	42903	MIDD_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/15/2024 11:50	42902	MIDD_T2	2	0	-2	0.3	0	-0.3	-0.92	-0.94	1	1	0	600	600	0
5/15/2024 11:51	42903	MIDD_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/15/2024 11:51	43202	MVIL_T2	179	179	0	0.88	0.97	0.09	-0.58	-0.58	0	0	0	0	0	0
5/15/2024 11:51	42902	MIDD_T2	2	0	-2	0.3	0	-0.3	-0.92	-0.94	1	1	0	600	600	0
5/15/2024 11:51	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/15/2024 11:55	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/15/2024 11:56	60802	BUCK_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
5/15/2024 11:57	17802	GILB_T1	2	1	-1	0.2	0.1	-0.1	0.05	0.05	0	0	0	0	0	0
5/15/2024 11:59	62102	ELAN_T1	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
5/15/2024 12:01	53901	HALI_T2	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/15/2024 12:01	53903	HALI_T2	2	2	0	1.5	1.45	-0.05	-0.17	-0.17	0	0	0	0	0	0
5/15/2024 12:01	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
5/15/2024 12:02	65003	NEFF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/15/2024 12:02	55002	NEWP_T1	6	6	0	0.73	0.83	0.1	-0.25	-0.25	0	0	0	0	0	0
5/15/2024 12:02	23203	HIRU_T2	0	31	31	0	0.14	0.14	0.13	0.12	0	0	0	0	0	0
5/15/2024 12:02	47001	HUGH_T2	0	0	0	0	0	0	0	0.11	0	0	0	0	0	0
5/15/2024 12:02	65004	NEFF_T2	1	0	-1	0.1	0	-0.1	-0.53	-0.52	0	0	0	0	0	0
5/15/2024 12:02	23202	HIRU_T2	0	19	19	0	0.16	0.16	0.08	0.09	0	0	0	0	0	0
5/15/2024 12:02	64702	LITI_T2	0	0	0	0	0	0	-0.87	-0.78	0	0	0	0	0	0
5/15/2024 12:02	23201	HIRU_T2	4	49	45	0.1	0.14	0.04	0	0	0	0	0	0	0	0
5/15/2024 12:03	47001	HUGH_T2	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
5/15/2024 12:05	54201	PENN_T1	7	10	3	1.01	0.83	-0.18	-0.87	-0.89	0	0	0	0	0	0
5/15/2024 12:05	54203	PENN_T1	18	18	0	0.82	0.8	-0.02	0	0	0	0	0	0	0	0
5/15/2024 12:06	28704	HAML_T2	1	0	-1	0.5	0	-0.5	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 12:06	28701	HAML_T2	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
5/15/2024 12:06	40602	PIGR_T1	1	1	0	1.4	0	-1.4	0	0	0	0	0	0	0	0
5/15/2024 12:06	40601	PIGR_T1	98	133	35	0.27	0.34	0.07	-0.37	-0.36	0	0	0	0	0	0
5/15/2024 12:06	28703	HAML_T2	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/15/2024 12:07	65901	SAKR_T2	1	1	0	9	9.1	0.1	-0.95	-0.98	1	1	0	900	900	0
5/15/2024 12:07	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
5/15/2024 12:07	53903	HALI_T2	2	2	0	1.5	1.45	-0.05	-0.17	-0.17	0	0	0	0	0	0
5/15/2024 12:07	53901	HALI_T2	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/15/2024 12:08	13704	SCNC_T2	1	4	3	0.5	0.15	-0.35	-0.27	-0.21	0	0	0	0	0	0
5/15/2024 12:08	45602	WOOL_T1	3	3	0	1.43	0.7	-0.73	0.47	0.45	0	0	0	0	0	0
5/15/2024 12:08	42201	SHEN_T2	0	2	2	0	1	1	0.49	0.49	0	0	0	0	0	0
5/15/2024 12:09	51305	WIND_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 12:09	45602	WOOL_T1	3	3	0	1.43	0.7	-0.73	0.45	0.43	0	0	0	0	0	0
5/15/2024 12:09	51303	WIND_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 12:12	11402	FARM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 12:12	67402	WAKE_T2	0	0	0	0	0	0	0.29	0.28	1	1	0	600	600	0
5/15/2024 12:12	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/15/2024 12:12	48901	FOSP_T2	0	0	0	0	0	0	-0.23	-0.22	2	2	0	1200	1200	0
5/15/2024 12:12	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 12:12	11405	FARM_T1	0	0	0	0	0	0	-0.97	-0.96	1	1	0	1200	1200	0
5/15/2024 12:13	17804	GILB_T2	0	8	8	0	0.48	0.48	-0.6	-0.6	0	0	0	0	0	0
5/15/2024 12:13	48901	FOSP_T2	0	0	0	0	0	0	-0.12	-0.11	1	1	0	600	600	0
5/15/2024 12:13	17803	GILB_T2	5	0	-5	0.24	0	-0.24	0	0	0	0	0	0	0	0
5/15/2024 12:13	46402	FLEM_T2	20	0	-20	0.48	0	-0.48	0	0	0	0	0	0	0	0
5/15/2024 12:13	60101	COCA_T1	0	0	0	0	0	0	0.34	0.26	0	0	0	0	0	0
5/15/2024 12:13	46401	FLEM_T2	74	1	-73	0.19	0.5	0.31	0.55	0.45	0	0	0	0	0	0
5/15/2024 12:16	22602	KIMB_T1	1	1	0	0.5	0.5	0	0.35	0.35	0	0	0	0	0	0
5/15/2024 12:16	64701	LITI_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
5/15/2024 12:16	13503	MCMI_T2	1	1	0	0.1	0.2	0.1	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 12:18	58402	MORO_T1	0	0	0	0	0	0	-1.17	-1.17	3	3	0	2400	2400	0
5/15/2024 12:18	63305	GREE_T1	0	0	0	0	0	0	-1.1	-0.93	0	0	0	0	0	0
5/15/2024 12:20	23202	HIRU_T2	10	17	7	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
5/15/2024 12:20	23201	HIRU_T2	22	48	26	0.14	0.14	0	0	0	0	0	0	0	0	0
5/15/2024 12:20	23203	HIRU_T2	15	33	18	0.14	0.15	0.01	0.12	0.07	0	0	0	0	0	0
5/15/2024 12:20	55003	NEWP_T2	14	14	0	0.78	0.8	0.02	-0.75	-0.75	1	1	0	600	600	0
5/15/2024 12:20	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/15/2024 12:21	59101	WALK_T2	0	0	0	0	0	0	1.89	1.75	0	0	0	0	0	0
5/15/2024 12:21	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/15/2024 12:21	59102	WALK_T2	5	1	-4	0.16	0.2	0.04	0	0	0	0	0	0	0	0
5/15/2024 12:22	67203	TEHI_T1	0	1	1	0	0.2	0.2	2.28	2.49	2	2	0	1200	1200	0
5/15/2024 12:22	20401	ASHF_T2	5	4	-1	0.38	0.38	0	0	0	0	0	0	0	0	0
5/15/2024 12:22	20403	ASHF_T2	2	0	-2	0.45	0	-0.45	1	1.02	0	0	0	0	0	0
5/15/2024 12:22	59102	WALK_T2	5	1	-4	0.16	0.2	0.04	0	0	0	0	0	0	0	0
5/15/2024 12:22	59101	WALK_T2	0	0	0	0	0	0	1.89	1.75	0	0	0	0	0	0
5/15/2024 12:23	49803	UNIV_T1	0	0	0	0	0	0	-1.04	-1.07	0	0	0	0	0	0
5/15/2024 12:23	49804	UNIV_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
5/15/2024 12:25	14603	SWHI_T1	1	0	-1	1	0	-1	-0.97	-1	1	1	0	600	600	0
5/15/2024 12:25	40201	BEGA_T2	1	4	3	0.1	0.78	0.68	0	0	0	0	0	0	0	0
5/15/2024 12:25	26603	BROO_T1	0	0	0	0	0	0	0.42	0.47	0	0	0	0	0	0
5/15/2024 12:27	45602	WOOL_T1	3	0	-3	0.7	0	-0.7	0.43	0.46	0	0	0	0	0	0
5/15/2024 12:27	17802	GILB_T1	1	0	-1	0.1	0	-0.1	0.06	0.07	0	0	0	0	0	0
5/15/2024 12:27	44301	BEAV_T2	0	0	0	0	0	0	-0.21	0.35	2	2	0	1500	1500	0
5/15/2024 12:27	48902	FOSP_T2	0	0	0	0	0	0	1.06	1.05	0	0	0	0	0	0
5/15/2024 12:27	29402	BELT_T1	2	1	-1	4.75	8.6	3.85	0	0	0	0	0	0	0	0
5/15/2024 12:28	40201	BEGA_T2	1	4	3	0.1	0.78	0.68	0	0	0	0	0	0	0	0
5/15/2024 12:28	17804	GILB_T2	8	5	-3	0.46	0.38	-0.08	0	0	0	0	0	0	0	0
5/15/2024 12:28	17805	GILB_T2	0	1	1	0	0	0	0.37	0.38	0	0	0	0	0	0
5/15/2024 12:29	48901	FOSP_T2	0	0	0	0	0	0	-0.11	-0.13	1	1	0	600	600	0
5/15/2024 12:29	67204	TEHI_T2	0	0	0	0	0	0	-0.14	-0.44	0	0	0	0	0	0
5/15/2024 12:29	48902	FOSP_T2	0	0	0	0	0	0	1.06	1.05	0	0	0	0	0	0
5/15/2024 12:29	54201	PENN_T1	7	10	3	0.91	0.93	0.02	0	0	0	0	0	0	0	0
5/15/2024 12:29	62105	ELAN_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
5/15/2024 12:29	54203	PENN_T1	18	18	0	0.74	0.78	0.04	0.86	1.01	0	0	0	0	0	0
5/15/2024 12:30	40601	PIGR_T1	37	95	58	0.21	0.21	0	-0.37	-0.35	0	0	0	0	0	0
5/15/2024 12:30	40602	PIGR_T1	0	0	0	0	0	0	-0.51	-0.46	1	1	0	600	600	0
5/15/2024 12:30	13901	SEID_T1	0	0	0	0	0	0	0.32	0.36	0	0	0	0	0	0
5/15/2024 12:30	20401	ASHF_T2	4	2	-2	0.38	0.4	0.02	-0.2	-0.27	0	0	0	0	0	0
5/15/2024 12:30	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 12:30	55002	NEWP_T1	6	6	0	0.78	0.67	-0.11	-0.26	-0.24	0	0	0	0	0	0
5/15/2024 12:30	20403	ASHF_T2	0	0	0	0	0	0	1.02	1.05	0	0	0	0	0	0
5/15/2024 12:30	42902	MIDD_T2	0	0	0	0	0	0	-1.04	-1.02	1	1	0	600	600	0
5/15/2024 12:30	67803	WLAN_T1	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
5/15/2024 12:30	67804	WLAN_T1	0	0	0	0	0	0	-1.14	-1.13	0	0	0	0	0	0
5/15/2024 12:30	53901	HALI_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
5/15/2024 12:30	53903	HALI_T2	2	2	0	1.4	1.45	0.05	-0.35	-0.27	0	0	0	0	0	0
5/15/2024 12:30	67204	TEHI_T2	0	0	0	0	0	0	-0.14	-0.44	0	0	0	0	0	0
5/15/2024 12:30	53902	HALI_T2	1	1	0	4.9	6	1.1	0	0	0	0	0	0	0	0
5/15/2024 12:30	67805	WLAN_T1	0	0	0	0	0	0	-0.87	-0.69	0	0	0	0	0	0
5/15/2024 12:31	48901	FOSP_T2	0	0	0	0	0	0	-0.11	-0.13	1	1	0	600	600	0
5/15/2024 12:31	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/15/2024 12:31	17805	GILB_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
5/15/2024 12:31	65603	QVIL_T2	0	0	0	0	0	0	0.3	0.66	0	0	0	0	0	0
5/15/2024 12:31	47101	MARL_T1	1	0	-1	0.2	0	-0.2	-0.22	-0.26	0	0	0	0	0	0
5/15/2024 12:31	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 12:31	58402	MORO_T1	0	0	0	0	0	0	-1.17	-0.21	3	2	-1	2400	1500	-900
5/15/2024 12:31	17804	GILB_T2	5	1	-4	0.38	0.1	-0.28	0	0	0	0	0	0	0	0
5/15/2024 12:31	29402	BELT_T1	1	1	0	8.6	8.8	0.2	0	0	0	0	0	0	0	0
5/15/2024 12:31	42201	SHEN_T2	2	2	0	1	0.75	-0.25	0.49	0.48	0	0	0	0	0	0
5/15/2024 12:31	51402	LYKE_T1	0	0	0	0	0	0	-1.69	-1.7	2	2	0	1200	1200	0
5/15/2024 12:32	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 12:32	45501	DERR_T2	1	1	0	0.3	0.3	0	0.71	0.81	2	2	0	1800	1800	0
5/15/2024 12:32	17804	GILB_T2	5	1	-4	0.38	0.1	-0.28	0	0	0	0	0	0	0	0
5/15/2024 12:32	67802	WLAN_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
5/15/2024 12:32	25502	MADI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 12:32	25503	MADI_T1	141	146	5	0.53	0.52	-0.01	-1.02	-1	0	0	0	0	0	0
5/15/2024 12:32	60501	NMAN_T2	3	3	0	5.03	5.1	0.07	0	0	0	0	0	0	0	0
5/15/2024 12:32	45402	WBLO_T2	3	8	5	0.67	0.53	-0.14	-1.63	-1.62	1	1	0	900	900	0
5/15/2024 12:32	60502	NMAN_T2	0	0	0	0	0	0	-0.31	-0.25	0	0	0	0	0	0
5/15/2024 12:32	17805	GILB_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
5/15/2024 12:32	25501	MADI_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/15/2024 12:33	55002	NEWP_T1	6	6	0	0.78	0.67	-0.11	-0.26	-0.24	0	0	0	0	0	0
5/15/2024 12:33	48901	FOSP_T2	0	0	0	0	0	0	-0.11	-0.13	1	1	0	600	600	0
5/15/2024 12:34	17002	RIRO_T2	2	3	1	0.1	0.73	0.63	0.69	0.73	0	0	0	0	0	0
5/15/2024 12:34	58006	WCAR_T2	0	0	0	0	0	0	0.3	0.35	0	0	0	0	0	0
5/15/2024 12:34	47101	MARL_T1	1	0	-1	0.2	0	-0.2	-0.22	-0.26	0	0	0	0	0	0
5/15/2024 12:34	48901	FOSP_T2	0	0	0	0	0	0	-0.11	-0.13	1	1	0	600	600	0
5/15/2024 12:34	47802	MOCA_T2	2	2	0	0.9	0.95	0.05	-1	-0.77	0	0	0	0	0	0
5/15/2024 12:35	67804	WLAN_T1	0	0	0	0	0	0	-1.14	-1.13	0	0	0	0	0	0
5/15/2024 12:35	48901	FOSP_T2	0	0	0	0	0	0	-0.11	-0.13	1	1	0	600	600	0
5/15/2024 12:36	60101	COCA_T1	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
5/15/2024 12:36	23002	SAJO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 12:36	23001	SAJO_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
5/15/2024 12:37	13901	SEID_T1	0	0	0	0	0	0	0.32	0.36	0	0	0	0	0	0
5/15/2024 12:37	67505	WEWI_T1	0	0	0	0	0	0	-0.12	-0.15	1	1	0	900	900	0
5/15/2024 12:37	55002	NEWP_T1	6	6	0	0.78	0.67	-0.11	-0.26	-0.24	0	0	0	0	0	0
5/15/2024 12:37	67703	WERN_T2	0	0	0	0	0	0	-0.15	-0.1	1	1	0	900	900	0
5/15/2024 12:38	67703	WERN_T2	0	0	0	0	0	0	-0.1	-0.06	1	1	0	900	900	0
5/15/2024 12:38	67505	WEWI_T1	0	0	0	0	0	0	-0.15	-0.17	1	1	0	900	900	0
5/15/2024 12:38	67803	WLAN_T1	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
5/15/2024 12:38	40201	BEGA_T2	4	4	0	0.5	0.68	0.18	0	0	0	0	0	0	0	0
5/15/2024 12:39	49804	UNIV_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
5/15/2024 12:39	49803	UNIV_T1	0	0	0	0	0	0	-1.04	-1.03	0	0	0	0	0	0
5/15/2024 12:40	43802	SWIL_T1	0	0	0	0	0	0	-0.1	-0.11	1	1	0	600	600	0
5/15/2024 12:40	43801	SWIL_T1	2	2	0	2.6	2.45	-0.15	0	0	0	0	0	0	0	0
5/15/2024 12:40	29402	BELT_T1	1	1	0	8.6	8.8	0.2	0	0	0	0	0	0	0	0
5/15/2024 12:40	67803	WLAN_T1	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
5/15/2024 12:40	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 12:41	67803	WLAN_T1	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
5/15/2024 12:43	28403	HART_T2	0	0	0	0	0	0	-0.83	-0.8	1	1	0	900	900	0
5/15/2024 12:43	51102	CARL_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
5/15/2024 12:43	51101	CARL_T1	0	0	0	0	0	0	-1.09	-1.1	1	1	0	600	600	0
5/15/2024 12:47	44502	HAMI_T2	1	1	0	3	3.2	0.2	0	0	0	0	0	0	0	0
5/15/2024 12:47	44504	HAMI_T2	0	0	0	0	0	0	-0.98	-0.93	0	0	0	0	0	0
5/15/2024 12:47	11303	EMMA_T1	0	0	0	0	0	0	-1.6	-1.61	0	0	0	0	0	0
5/15/2024 12:48	40602	PIGR_T1	0	0	0	0	0	0	-0.46	-0.52	1	1	0	600	600	0
5/15/2024 12:48	52501	PROG_T1	0	0	0	0	0	0	0.59	0.6	1	1	0	300	300	0
5/15/2024 12:48	40601	PIGR_T1	81	88	7	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
5/15/2024 12:49	58402	MORO_T1	0	0	0	0	0	0	-0.21	-0.17	2	2	0	1500	1500	0
5/15/2024 12:49	56501	ROCK_T2	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/15/2024 12:49	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 12:49	58401	MORO_T1	0	0	0	0	0	0	-0.92	-0.85	1	1	0	600	600	0
5/15/2024 12:49	52501	PROG_T1	0	0	0	0	0	0	1.18	1.2	2	2	0	600	600	0
5/15/2024 12:50	13302	ORVI_T2	0	0	0	0	0	0	1.45	1.48	0	0	0	0	0	0
5/15/2024 12:50	58401	MORO_T1	0	0	0	0	0	0	-0.92	-0.85	1	1	0	600	600	0
5/15/2024 12:53	56802	BENV_T2	1	2	1	1.4	0.95	-0.45	-0.68	-0.69	0	0	0	0	0	0
5/15/2024 12:54	58006	WCAR_T2	0	0	0	0	0	0	0.37	0.31	0	0	0	0	0	0
5/15/2024 12:54	56801	BENV_T1	13	20	7	0.82	0.78	-0.04	-0.22	-0.11	1	1	0	600	600	0
5/15/2024 12:54	56802	BENV_T2	1	2	1	1.4	0.95	-0.45	-2.03	-2.08	0	0	0	0	0	0
5/15/2024 12:54	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 12:55	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 12:55	56802	BENV_T2	1	2	1	1.4	0.95	-0.45	-4.74	-4.85	0	0	0	0	0	0
5/15/2024 12:55	56801	BENV_T1	13	20	7	0.82	0.78	-0.04	0	0	0	0	0	0	0	0
5/15/2024 12:55	56803	BENV_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
5/15/2024 12:55	10805	CHHI_T2	1	3	2	9	4.55	-4.45	-0.37	-0.45	1	1	0	600	600	0
5/15/2024 12:56	56802	BENV_T2	1	2	1	1.4	0.95	-0.45	-3.39	-3.46	0	0	0	0	0	0
5/15/2024 12:58	20603	GRWO_T2	0	0	0	0	0	0	-0.64	-0.61	1	1	0	900	900	0
5/15/2024 12:58	56802	BENV_T2	1	2	1	1.4	0.95	-0.45	-2.03	-2.08	0	0	0	0	0	0
5/15/2024 12:58	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/15/2024 12:59	50201	HARR_T3	2	2	0	4.85	5.3	0.45	0	0	0	0	0	0	0	0
5/15/2024 12:59	50105	HARR_T3	6	6	0	6.3	6.07	-0.23	0	0	0	0	0	0	0	0
5/15/2024 12:59	28403	HART_T2	0	0	0	0	0	0	-0.8	-0.83	1	1	0	900	900	0
5/15/2024 12:59	64702	LITI_T2	0	0	0	0	0	0	-0.32	-0.39	0	0	0	0	0	0
5/15/2024 12:59	50103	HARR_T3	0	0	0	0	0	0	-0.61	-0.58	1	1	0	1200	1200	0
5/15/2024 13:00	56802	BENV_T2	2	8	6	0.95	0.38	-0.57	-0.68	-0.69	0	0	0	0	0	0
5/15/2024 13:01	20603	GRWO_T2	0	0	0	0	0	0	-0.64	-0.61	1	1	0	900	900	0
5/15/2024 13:04	66502	SMAN_T2	0	0	0	0	0	0	0.24	0.32	0	0	0	0	0	0
5/15/2024 13:04	46301	ROHR_T1	327	309	-18	0.73	0.69	-0.04	0.24	0.23	0	0	0	0	0	0
5/15/2024 13:04	46302	ROHR_T1	186	170	-16	0.47	0.37	-0.1	0	0	0	0	0	0	0	0
5/15/2024 13:05	46302	ROHR_T1	186	170	-16	0.47	0.37	-0.1	0.25	0.34	0	0	0	0	0	0
5/15/2024 13:05	66502	SMAN_T2	0	0	0	0	0	0	0.73	0.95	0	0	0	0	0	0
5/15/2024 13:05	13704	SCHN_T2	1	1	0	0.1	0.6	0.5	-0.3	-0.31	0	0	0	0	0	0
5/15/2024 13:05	48302	ORWI_T2	2	2	0	0.7	0.55	-0.15	0.04	0.04	0	0	0	0	0	0
5/15/2024 13:05	46301	ROHR_T1	327	309	-18	0.73	0.69	-0.04	0.24	0.23	0	0	0	0	0	0
5/15/2024 13:06	13704	SCHN_T2	1	1	0	0.1	0.6	0.5	-0.3	-0.31	0	0	0	0	0	0
5/15/2024 13:06	46301	ROHR_T1	327	309	-18	0.73	0.69	-0.04	0.24	0.23	0	0	0	0	0	0
5/15/2024 13:06	66502	SMAN_T2	0	0	0	0	0	0	0.24	0.32	0	0	0	0	0	0
5/15/2024 13:06	46302	ROHR_T1	186	170	-16	0.47	0.37	-0.1	0	0	0	0	0	0	0	0
5/15/2024 13:07	42201	SHEN_T2	1	0	-1	0.5	0	-0.5	0.49	0.51	0	0	0	0	0	0
5/15/2024 13:07	49804	UNIV_T1	2	1	-1	0.2	0.5	0.3	1.12	1.1	0	0	0	0	0	0
5/15/2024 13:09	66502	SMAN_T2	0	0	0	0	0	0	0.32	0.42	0	0	0	0	0	0
5/15/2024 13:13	40101	HUNT_T2	0	0	0	0	0	0	-0.12	-0.19	0	0	0	0	0	0
5/15/2024 13:13	62607	ENGL_T1	1	1	0	0.2	0	-0.2	-0.79	-0.78	0	0	0	0	0	0
5/15/2024 13:13	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 13:14	52403	GRPA_T2	0	17	17	0	0.27	0.27	0.11	0.12	0	0	0	0	0	0
5/15/2024 13:14	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 13:14	52402	GRPA_T2	4	4	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
5/15/2024 13:14	52401	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/15/2024 13:14	62607	ENGL_T1	1	1	0	0.2	0	-0.2	-0.79	-0.78	0	0	0	0	0	0
5/15/2024 13:15	40101	HUNT_T2	0	0	0	0	0	0	-0.12	-0.19	0	0	0	0	0	0
5/15/2024 13:15	52403	GRPA_T2	17	9	-8	0.45	0.14	-0.31	0.22	0.25	0	0	0	0	0	0
5/15/2024 13:15	52401	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/15/2024 13:15	52402	GRPA_T2	4	4	0	0.6	0.38	-0.22	0	0	0	0	0	0	0	0
5/15/2024 13:16	62607	ENGL_T1	0	1	1	0	0.5	0.5	-0.79	-0.78	0	0	0	0	0	0
5/15/2024 13:18	56501	ROCK_T2	2	2	0	0.3	0.3	0	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 13:20	14601	SWHI_T1	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
5/15/2024 13:20	14602	SWHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/15/2024 13:21	66703	STRA_T1	0	0	0	0	0	0	-0.04	0	0	0	0	0	0	0
5/15/2024 13:21	56501	ROCK_T2	2	2	0	0.3	0.3	0	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 13:22	57003	WHHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/15/2024 13:22	49804	UNIV_T1	1	1	0	0.5	0.4	-0.1	1.1	1.08	0	0	0	0	0	0
5/15/2024 13:22	57004	WHHI_T2	0	0	0	0	0	0	-0.44	-0.48	0	0	0	0	0	0
5/15/2024 13:22	57006	WHHI_T2	2	1	-1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/15/2024 13:25	46004	BERW_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
5/15/2024 13:26	51302	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 13:26	51306	WIND_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/15/2024 13:26	29402	BELT_T1	2	6	4	4.4	1.68	-2.72	0	0	0	0	0	0	0	0
5/15/2024 13:26	58006	WCAR_T2	0	0	0	0	0	0	0.37	0.33	0	0	0	0	0	0
5/15/2024 13:26	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 13:26	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 13:27	51305	WIND_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
5/15/2024 13:27	51303	WIND_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/15/2024 13:27	51301	WIND_T1	0	4	4	0	0.6	0.6	0	0	0	0	0	0	0	0
5/15/2024 13:28	63305	GREE_T1	0	0	0	0	0	0	-1.1	-1.2	0	0	0	0	0	0
5/15/2024 13:30	17805	GILB_T2	0	0	0	0	0	0	0.37	0.31	0	0	0	0	0	0
5/15/2024 13:32	57302	MOAL_T2	0	0	0	0	0	0	-1.56	-1.57	1	1	0	1200	1200	0
5/15/2024 13:32	57303	MOAL_T2	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
5/15/2024 13:32	57304	MOAL_T2	25	21	-4	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
5/15/2024 13:33	62602	ENGL_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/15/2024 13:33	62607	ENGL_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/15/2024 13:38	51301	WIND_T1	4	4	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/15/2024 13:38	51305	WIND_T1	1	1	0	0.8	0.6	-0.2	0.22	0.2	0	0	0	0	0	0
5/15/2024 13:38	51303	WIND_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/15/2024 13:47	52402	GRPA_T2	1	5	4	0.3	0.54	0.24	0	0	0	0	0	0	0	0
5/15/2024 13:47	52403	GRPA_T2	0	9	9	0	0.23	0.23	0.15	0.23	0	0	0	0	0	0
5/15/2024 13:47	52401	GRPA_T2	0	3	3	0	0.53	0.53	0	0	0	0	0	0	0	0
5/15/2024 13:50	66502	SMAN_T2	0	0	0	0	0	0	0.31	0.27	0	0	0	0	0	0
5/15/2024 13:51	11401	FARM_T1	0	0	0	0	0	0	0.61	0.67	0	0	0	0	0	0
5/15/2024 13:51	11406	FARM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 13:53	51303	WIND_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
5/15/2024 13:53	51301	WIND_T1	4	3	-1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
5/15/2024 13:53	51305	WIND_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/15/2024 13:57	10901	COOP_T2	0	0	0	0	0	0	1.35	1.44	0	0	0	0	0	0
5/15/2024 13:57	10903	COOP_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/15/2024 14:04	12606	MACA_T1	0	0	0	0	0	0	-0.27	-0.22	1	1	0	900	900	0
5/15/2024 14:06	67502	WEWI_T2	1	1	0	0.2	0.9	0.7	-0.16	-0.19	0	0	0	0	0	0
5/15/2024 14:08	43301	WATS_T2	2	4	2	0.15	0.33	0.18	0	0	3	3	0	2700	2700	0
5/15/2024 14:08	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 14:08	29402	BELT_T1	1	1	0	8.4	8.6	0.2	0	0	0	0	0	0	0	0
5/15/2024 14:08	67502	WEWI_T2	1	1	0	0.2	0.9	0.7	-0.19	-0.22	0	0	0	0	0	0
5/15/2024 14:09	66703	STRA_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
5/15/2024 14:09	43301	WATS_T2	2	4	2	0.15	0.33	0.18	0	0	3	3	0	2700	2700	0
5/15/2024 14:09	66701	STRA_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/15/2024 14:09	29402	BELT_T1	1	1	0	8.4	8.6	0.2	0	0	0	0	0	0	0	0
5/15/2024 14:09	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 14:10	43301	WATS_T2	2	4	2	0.15	0.33	0.18	0	0	1	1	0	900	900	0
5/15/2024 14:10	55102	WERT_T2	0	0	0	0	0	0	-0.67	-0.4	2	2	0	1200	1200	0
5/15/2024 14:10	29402	BELT_T1	1	1	0	8.4	8.6	0.2	0	0	0	0	0	0	0	0
5/15/2024 14:10	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 14:11	60902	DONG_T2	0	0	0	0	0	0	0.87	0.81	0	0	0	0	0	0
5/15/2024 14:12	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 14:12	29402	BELT_T1	1	1	0	8.4	8.6	0.2	0	0	0	0	0	0	0	0
5/15/2024 14:13	67502	WEWI_T2	1	1	0	0.2	0.9	0.7	-0.19	-0.22	0	0	0	0	0	0
5/15/2024 14:13	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 14:13	40302	TAMA_T3	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
5/15/2024 14:13	29402	BELT_T1	1	1	0	8.4	8.6	0.2	0	0	0	0	0	0	0	0
5/15/2024 14:13	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 14:15	59202	THOM_T1	1	5	4	0.2	0.48	0.28	0	0	0	0	0	0	0	0
5/15/2024 14:16	64404	LAND_T2	74	99	25	0.14	0.23	0.09	0	0	0	0	0	0	0	0
5/15/2024 14:16	52401	GRPA_T2	3	2	-1	0.53	0.4	-0.13	-0.5	-0.51	0	0	0	0	0	0
5/15/2024 14:16	52403	GRPA_T2	9	1	-8	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
5/15/2024 14:16	64402	LAND_T2	0	0	0	0	0	0	-0.3	-0.3	1	1	0	600	600	0
5/15/2024 14:16	52402	GRPA_T2	4	4	0	0.48	0.68	0.2	0	0	0	0	0	0	0	0
5/15/2024 14:17	65603	QVIL_T2	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
5/15/2024 14:19	13103	NHAM_T2	0	0	0	0	0	0	-1.71	-1.72	1	1	0	600	600	0
5/15/2024 14:22	65603	QVIL_T2	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
5/15/2024 14:28	63602	LETO_T1	1	0	-1	0.1	0	-0.1	-0.36	-0.36	0	0	0	0	0	0
5/15/2024 14:32	63602	LETO_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
5/15/2024 14:34	52402	GRPA_T2	4	4	0	0.33	0.73	0.4	-0.94	-0.98	0	0	0	0	0	0
5/15/2024 14:34	52401	GRPA_T2	1	2	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
5/15/2024 14:34	52403	GRPA_T2	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
5/15/2024 14:35	59302	MCAL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/15/2024 14:35	59301	MCAL_T1	3	3	0	0.3	0.5	0.2	-1.61	-1.66	1	1	0	600	600	0
5/15/2024 14:36	42802	SELI_T1	1	1	0	0.8	0.7	-0.1	-0.44	-0.56	1	1	0	900	900	0
5/15/2024 14:37	67401	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/15/2024 14:37	42802	SELI_T1	1	1	0	0.8	0.7	-0.1	-0.44	-0.56	1	1	0	900	900	0
5/15/2024 14:37	67402	WAKE_T2	0	0	0	0	0	0	0.36	0.37	1	1	0	600	600	0
5/15/2024 14:38	59101	WALK_T2	0	0	0	0	0	0	2.08	1.94	0	0	0	0	0	0
5/15/2024 14:38	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 14:39	59101	WALK_T2	0	0	0	0	0	0	2.08	1.94	0	0	0	0	0	0
5/15/2024 14:40	24602	VARD_T2	398	445	47	0.73	0.68	-0.05	-0.63	-0.8	0	0	0	0	0	0
5/15/2024 14:40	59101	WALK_T2	0	0	0	0	0	0	2.08	1.94	0	0	0	0	0	0
5/15/2024 14:40	24603	VARD_T2	5	5	0	0.14	0.16	0.02	0	0	0	0	0	0	0	0
5/15/2024 14:40	67402	WAKE_T2	0	0	0	0	0	0	0.37	0.46	1	1	0	600	600	0
5/15/2024 14:40	67401	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/15/2024 14:40	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0.01	0	0	0	0	0	0
5/15/2024 14:42	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 14:42	29402	BELT_T1	1	1	0	8.5	8.9	0.4	0	0	0	0	0	0	0	0
5/15/2024 14:43	62104	ELAN_T1	0	0	0	0	0	0	0.49	0.46	2	2	0	1500	1500	0
5/15/2024 14:43	59101	WALK_T2	0	0	0	0	0	0	2.08	1.94	0	0	0	0	0	0
5/15/2024 14:45	62104	ELAN_T1	0	0	0	0	0	0	0.49	0.46	2	2	0	1500	1500	0
5/15/2024 14:45	67402	WAKE_T2	0	0	0	0	0	0	0.37	0.46	1	1	0	600	600	0
5/15/2024 14:45	62105	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/15/2024 14:45	67401	WAKE_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
5/15/2024 14:48	62105	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/15/2024 14:48	62104	ELAN_T1	0	0	0	0	0	0	0.49	0.46	2	2	0	1500	1500	0
5/15/2024 14:49	57203	ROSS_T1	0	0	0	0	0	0	-0.22	-0.28	0	0	0	0	0	0
5/15/2024 14:50	52403	GRPA_T2	1	2	1	0.1	0.2	0.1	0.09	0.12	0	0	0	0	0	0
5/15/2024 14:50	52401	GRPA_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
5/15/2024 14:50	52402	GRPA_T2	4	7	3	0.68	0.6	-0.08	0	0	0	0	0	0	0	0
5/15/2024 14:53	67603	WARW_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
5/15/2024 14:53	67605	WARW_T1	13	22	9	0.49	0.44	-0.05	0	0	0	0	0	0	0	0
5/15/2024 14:55	58003	WCAR_T1	1	14	13	1.6	0.27	-1.33	0.2	0.24	1	1	0	600	600	0
5/15/2024 14:55	58001	WCAR_T1	4	4	0	0.68	1.28	0.6	0	0	0	0	0	0	0	0
5/15/2024 14:57	62607	ENGL_T1	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
5/15/2024 14:57	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 15:00	61503	EPET_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
5/15/2024 15:00	67605	WARW_T1	18	23	5	0.43	0.43	0	-1.08	-1.06	0	0	0	0	0	0
5/15/2024 15:01	29402	BELT_T1	1	1	0	8.8	8.8	0	0	0	0	0	0	0	0	0
5/15/2024 15:01	11303	EMMA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/15/2024 15:01	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 15:01	62601	ENGL_T1	0	0	0	0	0	0	-0.13	-0.07	0	0	0	0	0	0
5/15/2024 15:01	11301	EMMA_T1	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
5/15/2024 15:02	59102	WALK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/15/2024 15:02	59101	WALK_T2	0	0	0	0	0	0	1.94	1.81	0	0	0	0	0	0
5/15/2024 15:03	65205	PRIN_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
5/15/2024 15:03	65201	PRIN_T4	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 15:03	65207	PRIN_T4	0	0	0	0	0	0	0	2	2	2	0	1800	1800	0
5/15/2024 15:03	61503	EPET_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
5/15/2024 15:05	67203	TEHI_T1	0	1	1	0	0	0	1.92	2.28	3	2	-1	2100	1500	-600
5/15/2024 15:06	67204	TEHI_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
5/15/2024 15:09	29402	BELT_T1	1	1	0	8.8	8.8	0	0	0	0	0	0	0	0	0
5/15/2024 15:09	67203	TEHI_T1	0	1	1	0	0	0	2.28	0	2	0	-2	1500	0	-1500
5/15/2024 15:09	67204	TEHI_T2	0	0	0	0	0	0	-0.45	0	0	0	0	0	0	0
5/15/2024 15:10	56501	ROCK_T2	2	2	0	0.3	0.25	-0.05	-0.01	0	0	0	0	0	0	0
5/15/2024 15:11	67804	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/15/2024 15:11	29402	BELT_T1	1	1	0	8.8	8.8	0	0	0	0	0	0	0	0	0
5/15/2024 15:11	67805	WLAN_T1	0	0	0	0	0	0	-0.84	0	0	0	0	0	0	0
5/15/2024 15:11	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 15:12	41802	GOCI_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 15:12	41801	GOCI_T2	0	88	88	0	0.25	0.25	0	0	0	0	0	0	0	0
5/15/2024 15:12	41502	FAIR_T2	0	0	0	0	0	0	-0.69	0	0	0	0	0	0	0
5/15/2024 15:15	24202	PROV_T4	0	0	0	0	0	0	-0.9	0	1	0	-1	1200	0	-1200
5/15/2024 15:16	20601	GRWO_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
5/15/2024 15:16	20603	GRWO_T2	1	7	6	0.1	0.14	0.04	0	0	0	0	0	0	0	0
5/15/2024 15:17	52402	GRPA_T2	7	4	-3	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/15/2024 15:17	52403	GRPA_T2	0	0	0	0	0	0	0.15	0	0	0	0	0	0	0
5/15/2024 15:17	52401	GRPA_T2	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
5/15/2024 15:20	13704	SCHN_T2	4	6	2	0.15	0.23	0.08	-0.3	0	0	0	0	0	0	0
5/15/2024 15:20	65603	QVIL_T2	0	0	0	0	0	0	0.56	0	0	0	0	0	0	0
5/15/2024 15:21	67502	WEWI_T2	0	6	6	0	0.25	0.25	-0.3	0	0	0	0	0	0	0
5/15/2024 15:21	65205	PRIN_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
5/15/2024 15:21	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
5/15/2024 15:22	57205	ROSS_T1	0	0	0	0	0	0	0.7	0	0	0	0	0	0	0
5/15/2024 15:40	63306	GREE_T1	0	0	0	0	0	0	0	-2.12	0	0	0	0	0	0
5/15/2024 15:40	64101	REFR_T1	0	0	0	0	0	0	0	-0.39	0	0	0	0	0	0
5/15/2024 15:43	67702	WERN_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
5/15/2024 15:46	64101	REFR_T1	0	1	1	0	0.2	0.2	0	-0.26	0	0	0	0	0	0
5/15/2024 15:47	46504	LOHA_T1	2	2	0	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
5/15/2024 15:47	46506	LOHA_T1	1	0	-1	0.1	0	-0.1	0	-0.42	0	0	0	0	0	0
5/15/2024 15:47	58401	MORO_T1	1	0	-1	0.1	0	-0.1	0	-0.78	0	0	0	0	0	0
5/15/2024 15:49	14203	EALL_T1	0	0	0	0	0	0	-0.14	-0.19	0	0	0	0	0	0
5/15/2024 15:50	59202	THOM_T1	4	96	92	0.13	0.17	0.04	0	0	0	0	0	0	0	0
5/15/2024 15:50	13606	RICH_T2	1	1	0	6.5	6.4	-0.1	1.03	1.11	0	0	0	0	0	0
5/15/2024 15:50	59201	THOM_T1	0	12	12	0	0.18	0.18	0	0	0	0	0	0	0	0
5/15/2024 15:52	61404	SLIT_T1	0	0	0	0	0	0	-0.1	-0.01	0	0	0	0	0	0
5/15/2024 15:52	59202	THOM_T1	4	96	92	0.13	0.17	0.04	0	0	0	0	0	0	0	0
5/15/2024 15:52	59201	THOM_T1	0	12	12	0	0.18	0.18	0	0	0	0	0	0	0	0
5/15/2024 15:53	45902	AUBU_T1	0	1	1	0	0.2	0.2	-0.78	-0.79	0	0	0	0	0	0
5/15/2024 15:55	51108	CARL_T1	1	1	0	0.1	0.3	0.2	-0.59	-0.48	0	0	0	0	0	0
5/15/2024 15:55	51102	CARL_T1	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
5/15/2024 15:56	45902	AUBU_T1	0	1	1	0	0.2	0.2	-0.78	-0.79	0	0	0	0	0	0
5/15/2024 16:00	53903	HALI_T2	2	2	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/15/2024 16:00	53902	HALI_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
5/15/2024 16:00	53901	HALI_T2	1	1	0	0.8	0.8	0	-0.32	-0.32	0	0	0	0	0	0
5/15/2024 16:02	46102	MACI_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
5/15/2024 16:08	58006	WCAR_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
5/15/2024 16:10	61704	ELIZ_T2	5	5	0	0.38	0.6	0.22	0	0	0	0	0	0	0	0
5/15/2024 16:10	61702	ELIZ_T2	0	2	2	0	0.1	0.1	-2.06	-2.1	0	0	0	0	0	0
5/15/2024 16:12	29402	BELT_T1	1	1	0	8.4	8.5	0.1	0	0	0	0	0	0	0	0
5/15/2024 16:14	62605	ENGL_T1	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
5/15/2024 16:27	40101	HUNT_T2	0	0	0	0	0	0	-0.47	-0.54	0	0	0	0	0	0
5/15/2024 16:30	62607	ENGL_T1	0	0	0	0	0	0	-0.76	-0.75	0	0	0	0	0	0
5/15/2024 16:35	52204	DEVO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/15/2024 16:35	52202	DEVO_T2	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
5/15/2024 16:39	58001	WCAR_T1	4	4	0	0.98	1.18	0.2	0	0	0	0	0	0	0	0
5/15/2024 16:39	58003	WCAR_T1	1	3	2	1.6	0.63	-0.97	0.79	0.78	0	0	0	0	0	0
5/15/2024 16:40	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	0.32	0.41	0	0	0	0	0	0
5/15/2024 16:40	58001	WCAR_T1	4	4	0	0.98	1.18	0.2	0	0	0	0	0	0	0	0
5/15/2024 16:40	58003	WCAR_T1	1	3	2	1.6	0.63	-0.97	0.79	0.78	0	0	0	0	0	0
5/15/2024 16:40	20401	ASHF_T2	10	9	-1	0.48	0.54	0.06	0	0	0	0	0	0	0	0
5/15/2024 16:40	43505	WWIL_T1	1	1	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
5/15/2024 16:40	43506	WWIL_T1	1	2	1	1.9	1.15	-0.75	0	0	0	0	0	0	0	0
5/15/2024 16:40	43504	WWIL_T1	8	15	7	0.28	0.42	0.14	0.66	0.66	0	0	0	0	0	0
5/15/2024 16:41	58001	WCAR_T1	4	4	0	0.98	1.18	0.2	0	0	0	0	0	0	0	0
5/15/2024 16:41	58006	WCAR_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
5/15/2024 16:41	10602	BLGL_T2	1	1	0	0.2	0.1	-0.1	0.1	0.09	0	0	0	0	0	0
5/15/2024 16:41	58003	WCAR_T1	1	3	2	1.6	0.63	-0.97	0.79	0.78	0	0	0	0	0	0
5/15/2024 16:50	49804	UNIV_T1	0	1	1	0	0	0	0.54	0.53	0	0	0	0	0	0
5/15/2024 16:50	57203	ROSS_T1	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
5/15/2024 16:50	57205	ROSS_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/15/2024 16:51	56501	ROCK_T2	2	2	0	0.4	0.4	0	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 16:51	54203	PENN_T1	18	18	0	1.38	1.38	0	0.86	0.86	0	0	0	0	0	0
5/15/2024 16:51	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
5/15/2024 16:51	54201	PENN_T1	10	10	0	1.34	1.31	-0.03	0	0	0	0	0	0	0	0
5/15/2024 16:52	54201	PENN_T1	10	10	0	1.34	1.31	-0.03	0	0	0	0	0	0	0	0
5/15/2024 16:52	54203	PENN_T1	18	18	0	1.38	1.38	0	0.86	0.86	0	0	0	0	0	0
5/15/2024 16:53	57205	ROSS_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/15/2024 16:53	57203	ROSS_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
5/15/2024 16:54	56501	ROCK_T2	2	2	0	0.4	0.4	0	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 16:56	53502	EVIL_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
5/15/2024 16:56	29402	BELT_T1	1	1	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
5/15/2024 16:56	53501	EVIL_T2	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
5/15/2024 16:57	43504	WWIL_T1	13	15	2	0.35	0.42	0.07	0.66	0.65	0	0	0	0	0	0
5/15/2024 16:57	43505	WWIL_T1	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
5/15/2024 16:57	43506	WWIL_T1	1	2	1	2.2	1.15	-1.05	0	0	0	0	0	0	0	0
5/15/2024 17:05	65804	RTWN_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
5/15/2024 17:06	65804	RTWN_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
5/15/2024 17:07	56501	ROCK_T2	2	0	-2	0.4	0	-0.4	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 17:08	42201	SHEN_T2	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
5/15/2024 17:09	56501	ROCK_T2	2	0	-2	0.4	0	-0.4	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 17:10	42201	SHEN_T2	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
5/15/2024 17:10	25601	ARRO_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
5/15/2024 17:10	25603	ARRO_T1	25	27	2	0.16	0.18	0.02	0	0	0	0	0	0	0	0
5/15/2024 17:11	65205	PRIN_T1	1	1	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
5/15/2024 17:11	56501	ROCK_T2	2	0	-2	0.4	0	-0.4	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 17:11	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 17:12	46004	BERW_T2	0	0	0	0	0	0	0.19	0.16	0	0	0	0	0	0
5/15/2024 17:13	60902	DONG_T2	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
5/15/2024 17:22	13905	SEID_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
5/15/2024 17:24	58006	WCAR_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
5/15/2024 17:35	54201	PENN_T1	10	8	-2	0.99	1.01	0.02	-0.85	-0.85	0	0	0	0	0	0
5/15/2024 17:35	54203	PENN_T1	18	18	0	1.04	1.11	0.07	0	0	0	0	0	0	0	0
5/15/2024 17:42	62102	ELAN_T1	0	0	0	0	0	0	0.6	0.72	0	0	0	0	0	0
5/15/2024 17:43	62102	ELAN_T1	0	0	0	0	0	0	1.2	1.43	0	0	0	0	0	0
5/15/2024 17:44	59101	WALK_T2	0	0	0	0	0	0	1.26	1.24	0	0	0	0	0	0
5/15/2024 17:44	12006	HATF_T1	0	0	0	0	0	0	0.12	1.35	0	0	0	0	0	0
5/15/2024 17:45	62102	ELAN_T1	0	0	0	0	0	0	0.6	0.72	0	0	0	0	0	0
5/15/2024 17:47	63804	HEMP_T1	1	1	0	5.4	5.2	-0.2	-1.74	-1.78	0	0	0	0	0	0
5/15/2024 17:47	63803	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 17:51	56501	ROCK_T2	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 17:52	13901	SEID_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
5/15/2024 17:53	13905	SEID_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
5/15/2024 17:53	45402	WBLO_T2	2	1	-1	0.8	1.3	0.5	-1.69	-1.68	0	0	0	0	0	0
5/15/2024 17:54	45402	WBLO_T2	2	1	-1	0.8	1.3	0.5	-1.68	-1.68	0	0	0	0	0	0
5/15/2024 18:01	63804	HEMP_T1	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
5/15/2024 18:01	62102	ELAN_T1	0	0	0	0	0	0	0.72	0.68	0	0	0	0	0	0
5/15/2024 18:01	63801	HEMP_T1	0	0	0	0	0	0	-1.61	-1.02	0	0	0	0	0	0
5/15/2024 18:05	24201	PROV_T3	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
5/15/2024 18:05	24205	PROV_T3	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 18:05	24204	PROV_T3	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
5/15/2024 18:06	57205	ROSS_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/15/2024 18:06	57203	ROSS_T1	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
5/15/2024 18:08	44201	POIN_T1	9	40	31	0.16	0.14	-0.02	-2.26	-2.26	0	0	0	0	0	0
5/15/2024 18:09	66502	SMAN_T2	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
5/15/2024 18:10	62102	ELAN_T1	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
5/15/2024 18:11	62102	ELAN_T1	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
5/15/2024 18:19	48301	ORWI_T1	2	2	0	5.8	5.65	-0.15	0	0	0	0	0	0	0	0
5/15/2024 18:21	55102	WERT_T2	0	0	0	0	0	0	-0.79	-0.79	0	0	0	0	0	0
5/15/2024 18:25	56501	ROCK_T2	1	0	-1	1.6	0	-1.6	0	0	0	0	0	0	0	0
5/15/2024 18:25	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 18:26	58006	WCAR_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
5/15/2024 18:26	51102	CARL_T1	11	8	-3	0.14	0.11	-0.03	0	0	0	0	0	0	0	0
5/15/2024 18:26	51108	CARL_T1	1	1	0	0.2	0.2	0	-0.49	-0.51	0	0	0	0	0	0
5/15/2024 18:28	44503	HAMI_T2	0	0	0	0	0	0	-1.69	-1.71	0	0	0	0	0	0
5/15/2024 18:28	44502	HAMI_T2	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
5/15/2024 18:28	41501	FAIR_T2	0	0	0	0	0	0	-1.13	-1.05	0	0	0	0	0	0
5/15/2024 18:29	51102	CARL_T1	11	8	-3	0.14	0.11	-0.03	0	0	0	0	0	0	0	0
5/15/2024 18:29	51101	CARL_T1	0	0	0	0	0	0	-1.41	-1.42	0	0	0	0	0	0
5/15/2024 18:29	51108	CARL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/15/2024 18:31	17802	GILB_T1	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
5/15/2024 18:36	15103	UPHA_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
5/15/2024 18:48	55001	NEWP_T1	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
5/15/2024 18:48	55002	NEWP_T1	4	5	1	0.65	0.72	0.07	0	0	0	0	0	0	0	0
5/15/2024 18:49	54202	PENN_T2	0	0	0	0	0	0	-0.24	-0.17	0	0	0	0	0	0
5/15/2024 18:52	55001	NEWP_T1	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
5/15/2024 18:52	55002	NEWP_T1	4	5	1	0.65	0.72	0.07	0	0	0	0	0	0	0	0
5/15/2024 18:58	41502	FAIR_T2	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
5/15/2024 18:59	41501	FAIR_T2	0	0	0	0	0	0	-1.06	-1.04	0	0	0	0	0	0
5/15/2024 19:00	59101	WALK_T2	1	1	0	2.9	2.4	-0.5	1.26	1.17	0	0	0	0	0	0
5/15/2024 19:01	52004	LING_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
5/15/2024 19:01	52006	LING_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
5/15/2024 19:02	23403	HONE_T1	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
5/15/2024 19:07	48302	ORWI_T2	2	2	0	1	1.2	0.2	-0.07	-0.06	0	0	0	0	0	0
5/15/2024 19:15	62102	ELAN_T1	0	0	0	0	0	0	0.68	0.63	0	0	0	0	0	0
5/15/2024 19:21	42201	SHEN_T2	1	0	-1	0.1	0	-0.1	0.4	0.39	0	0	0	0	0	0
5/15/2024 19:24	42201	SHEN_T2	1	0	-1	0.1	0	-0.1	0.39	0.42	0	0	0	0	0	0
5/15/2024 19:24	67503	WEWI_T2	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
5/15/2024 19:24	62106	ELAN_T1	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
5/15/2024 19:25	56501	ROCK_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 19:33	62102	ELAN_T1	0	0	0	0	0	0	0.63	0.68	0	0	0	0	0	0
5/15/2024 21:41	12606	MACA_T1	0	0	0	0	0	0	-0.37	-0.41	0	0	0	0	0	0
5/15/2024 21:44	11405	FARM_T1	1	1	0	3.9	3.3	-0.6	-1	-1.03	0	0	0	0	0	0
5/15/2024 21:45	10805	CHHI_T2	1	1	0	7.5	7.2	-0.3	-1.13	-1.1	0	0	0	0	0	0
5/15/2024 21:47	17002	RIRO_T2	6	32	26	0.12	0.12	0	0.35	0.37	0	0	0	0	0	0
5/15/2024 21:48	62605	ENGL_T1	3	5	2	0.1	0.22	0.12	0	0	0	0	0	0	0	0
5/15/2024 21:48	62602	ENGL_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
5/15/2024 21:48	62607	ENGL_T1	4	47	43	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
5/15/2024 21:49	28704	HAML_T2	1	4	3	1.1	0.43	-0.67	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 21:49	28702	HAML_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/15/2024 21:49	13606	RICH_T2	1	1	0	7.1	6.5	-0.6	0.91	0.91	0	0	0	0	0	0
5/15/2024 21:49	29402	BELT_T1	1	1	0	7.8	8	0.2	0	0	0	0	0	0	0	0
5/15/2024 21:49	43201	MVIL_T2	10	54	44	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
5/15/2024 21:49	28703	HAML_T2	3	3	0	0.9	0.97	0.07	0	0	0	0	0	0	0	0
5/15/2024 21:49	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
5/15/2024 21:49	43202	MVIL_T2	284	352	68	0.89	0.92	0.03	-0.69	-0.67	0	0	0	0	0	0
5/15/2024 21:50	43201	MVIL_T2	10	54	44	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
5/15/2024 21:50	40901	JESH_T1	0	23	23	0	0.16	0.16	0	0	0	0	0	0	0	0
5/15/2024 21:50	59302	MCAL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/15/2024 21:50	23403	HONE_T1	0	5	5	0	0.1	0.1	-0.79	-0.8	0	0	0	0	0	0
5/15/2024 21:50	59301	MCAL_T1	2	3	1	0.9	0.8	-0.1	-1.16	-1.17	0	0	0	0	0	0
5/15/2024 21:50	40903	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 21:50	43202	MVIL_T2	284	352	68	0.89	0.92	0.03	-0.69	-0.67	0	0	0	0	0	0
5/15/2024 21:50	40902	JESH_T1	0	27	27	0	0.12	0.12	-0.85	-0.83	0	0	0	0	0	0
5/15/2024 21:51	17802	GILB_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
5/15/2024 21:51	10602	BLGL_T2	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
5/15/2024 21:52	44502	HAMI_T2	1	1	0	3	3.4	0.4	0	0	0	0	0	0	0	0
5/15/2024 21:52	59201	THOM_T1	9	18	9	0.22	0.3	0.08	0	0	0	0	0	0	0	0
5/15/2024 21:52	59202	THOM_T1	116	253	137	0.15	0.32	0.17	0	0	0	0	0	0	0	0
5/15/2024 21:52	44503	HAMI_T2	0	0	0	0	0	0	-1.76	-1.76	0	0	0	0	0	0
5/15/2024 21:54	59202	THOM_T1	116	253	137	0.15	0.32	0.17	0	0	0	0	0	0	0	0
5/15/2024 21:54	59201	THOM_T1	9	18	9	0.22	0.3	0.08	0	0	0	0	0	0	0	0
5/15/2024 21:55	29402	BELT_T1	1	1	0	7.8	8	0.2	0	0	0	0	0	0	0	0
5/15/2024 21:56	13501	MCMI_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
5/15/2024 21:56	41901	REED_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/15/2024 21:56	12006	HATF_T1	0	0	0	0	0	0	1	-0.32	0	1	1	1200	1200	1200
5/15/2024 21:56	40903	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 21:56	40901	JESH_T1	0	23	23	0	0.16	0.16	0	0	0	0	0	0	0	0
5/15/2024 21:56	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 21:56	40902	JESH_T1	0	27	27	0	0.12	0.12	-0.83	-0.88	0	0	0	0	0	0
5/15/2024 21:56	13302	ORVI_T2	0	0	0	0	0	0	1.49	-0.04	0	0	0	0	0	0
5/15/2024 21:56	41902	REED_T1	0	0	0	0	0	0	1.08	0.93	0	0	0	0	0	0
5/15/2024 21:57	54201	PENN_T1	7	6	-1	0.61	0.62	0.01	0.36	0.38	0	0	0	0	0	0
5/15/2024 21:57	54203	PENN_T1	18	18	0	0.81	0.71	-0.1	0	0	0	0	0	0	0	0
5/15/2024 21:58	13901	SEID_T1	0	0	0	0	0	0	-1.04	-1.11	1	1	0	1200	1200	0
5/15/2024 21:58	51107	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/15/2024 21:58	51101	CARL_T1	9	1	-8	0.12	0.1	-0.02	-1.44	-0.81	0	0	0	0	0	0
5/15/2024 21:58	51108	CARL_T1	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
5/15/2024 21:58	10805	CHHI_T2	1	1	0	7.5	7.2	-0.3	-2.19	-2.3	0	0	0	0	0	0
5/15/2024 21:58	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 21:58	51102	CARL_T1	142	151	9	0.31	0.31	0	0	0	0	0	0	0	0	0
5/15/2024 21:59	29402	BELT_T1	1	1	0	7.8	8	0.2	0	0	0	0	0	0	0	0
5/15/2024 21:59	20401	ASHF_T2	7	8	1	0.57	0.59	0.02	-0.36	-0.39	0	0	0	0	0	0
5/15/2024 21:59	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 22:00	13905	SEID_T1	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
5/15/2024 22:00	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 22:00	10903	COOP_T2	0	76	76	0	0.19	0.19	0	0	0	0	0	0	0	0
5/15/2024 22:00	23202	HIRU_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
5/15/2024 22:00	13704	SCHN_T2	0	5	5	0	0.16	0.16	-0.42	-0.44	0	0	0	0	0	0
5/15/2024 22:00	10901	COOP_T2	0	0	0	0	0	0	0.8	0.82	0	0	0	0	0	0
5/15/2024 22:00	29402	BELT_T1	1	1	0	7.8	8	0.2	0	0	0	0	0	0	0	0
5/15/2024 22:00	41902	REED_T1	0	0	0	0	0	0	1.08	0.93	0	0	0	0	0	0
5/15/2024 22:00	14603	SWHI_T1	0	0	0	0	0	0	-0.98	-1.07	0	0	0	0	0	0
5/15/2024 22:01	55001	NEWP_T1	0	0	0	0	0	0	-0.07	-0.13	0	0	0	0	0	0
5/15/2024 22:01	17802	GILB_T1	0	2	2	0	0.2	0.2	0.02	0.02	0	0	0	0	0	0
5/15/2024 22:01	55002	NEWP_T1	5	5	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
5/15/2024 22:01	15103	UPHA_T2	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
5/15/2024 22:01	46401	FLEM_T2	0	2	2	0	0.1	0.1	0.43	0.47	0	0	0	0	0	0
5/15/2024 22:01	59101	WALK_T2	1	0	-1	0.1	0	-0.1	1.17	1.04	0	0	0	0	0	0
5/15/2024 22:01	59102	WALK_T2	4	0	-4	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/15/2024 22:01	29402	BELT_T1	1	1	0	7.8	8	0.2	0	0	0	0	0	0	0	0
5/15/2024 22:01	29401	BELT_T1	0	0	0	0	0	0	0	3	3	0	2700	2700	0
5/15/2024 22:02	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 22:02	14203	EALL_T1	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
5/15/2024 22:02	10801	CHHI_T1	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
5/15/2024 22:04	62103	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/15/2024 22:04	62106	ELAN_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:04	25601	ARRO_T1	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
5/15/2024 22:04	56501	ROCK_T2	2	1	-1	0.2	0.1	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 22:04	14601	SWHI_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
5/15/2024 22:04	62101	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/15/2024 22:04	25603	ARRO_T1	30	22	-8	0.19	0.15	-0.04	0	0	0	0	0	0	0	0
5/15/2024 22:04	62105	ELAN_T1	93	0	-93	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/15/2024 22:04	62104	ELAN_T1	0	0	0	0	0	0	0.5	-0.05	0	0	0	0	0	0
5/15/2024 22:05	16902	MECK_T1	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
5/15/2024 22:05	14402	SSLA_T1	16	0	-16	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/15/2024 22:05	59003	MIFF_T1	1	0	-1	0.2	0	-0.2	0.74	0.58	0	0	0	0	0	0
5/15/2024 22:05	14404	SSLA_T1	3	1	-2	2.3	5.8	3.5	0	0	0	0	0	0	0	0
5/15/2024 22:05	59002	MIFF_T1	4	1	-3	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:05	62605	ENGL_T1	5	6	1	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
5/15/2024 22:05	62607	ENGL_T1	40	48	8	0.12	0.1	-0.02	-1.17	-1.16	1	1	0	300	300	0
5/15/2024 22:05	14403	SSLA_T1	1	0	-1	0.1	0	-0.1	0.57	0.53	0	0	0	0	0	0
5/15/2024 22:05	14401	SSLA_T1	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/15/2024 22:05	56501	ROCK_T2	2	1	-1	0.2	0.1	-0.1	-0.02	-0.02	0	0	0	0	0	0
5/15/2024 22:06	65001	NEFF_T2	227	0	-227	0.33	0	-0.33	0	0	0	0	0	0	0	0
5/15/2024 22:06	65003	NEFF_T2	91	0	-91	0.16	0	-0.16	0	0	0	0	0	0	0	0
5/15/2024 22:06	67703	WERN_T2	0	0	0	0	0	0	-0.29	-0.34	0	0	0	0	0	0
5/15/2024 22:06	59201	THOM_T1	18	1	-17	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
5/15/2024 22:06	59202	THOM_T1	253	15	-238	0.32	0.15	-0.17	0	0	0	0	0	0	0	0
5/15/2024 22:06	47002	HUGH_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/15/2024 22:06	56501	ROCK_T2	2	1	-1	0.2	0.1	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 22:06	66505	SMAN_T2	3	3	0	1.03	0.5	-0.53	0	0	0	0	0	0	0	0
5/15/2024 22:06	64702	LITI_T2	0	0	0	0	0	0	-0.66	-0.63	0	0	0	0	0	0
5/15/2024 22:06	22602	KIMB_T1	0	1	1	0	0.3	0.3	0.34	0.34	0	0	0	0	0	0
5/15/2024 22:06	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 22:06	17805	GILB_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
5/15/2024 22:06	20401	ASHF_T2	8	2	-6	0.59	0.5	-0.09	0	0	0	0	0	0	0	0
5/15/2024 22:06	11303	EMMA_T1	0	0	0	0	0	0	-1.63	-0.27	0	0	0	0	0	0
5/15/2024 22:06	56802	BENV_T2	128	2	-126	0.23	1	0.77	-1.4	-1.44	0	0	0	0	0	0
5/15/2024 22:06	20403	ASHF_T2	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
5/15/2024 22:06	51304	WIND_T2	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
5/15/2024 22:06	65004	NEFF_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
5/15/2024 22:06	47001	HUGH_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
5/15/2024 22:06	66502	SMAN_T2	0	0	0	0	0	0	-0.18	-0.12	0	0	0	0	0	0
5/15/2024 22:06	13501	MCMI_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
5/15/2024 22:07	59201	THOM_T1	18	1	-17	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
5/15/2024 22:07	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 22:07	51101	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:07	59101	WALK_T2	1	0	-1	0.1	0	-0.1	2.34	2.08	0	0	0	0	0	0
5/15/2024 22:07	59102	WALK_T2	4	0	-4	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/15/2024 22:07	59202	THOM_T1	253	15	-238	0.32	0.15	-0.17	0	0	0	0	0	0	0	0
5/15/2024 22:07	51108	CARL_T1	1	0	-1	0.1	0	-0.1	-0.56	-1.25	0	1	1	0	600	600
5/15/2024 22:07	20603	GRWO_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
5/15/2024 22:07	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 22:07	51102	CARL_T1	151	6	-145	0.31	0.12	-0.19	0	0	0	0	0	0	0	0
5/15/2024 22:07	57203	ROSS_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
5/15/2024 22:08	62104	ELAN_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
5/15/2024 22:08	62106	ELAN_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:08	62101	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/15/2024 22:08	62105	ELAN_T1	93	0	-93	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/15/2024 22:08	62103	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/15/2024 22:09	67804	WLAN_T1	106	407	301	0.18	0.22	0.04	-1.14	-1.14	0	0	0	0	0	0
5/15/2024 22:09	67802	WLAN_T1	21	22	1	0.22	0.3	0.08	-0.29	-0.28	0	0	0	0	0	0
5/15/2024 22:09	67801	WLAN_T1	28	100	72	0.12	0.18	0.06	0	0	0	0	0	0	0	0
5/15/2024 22:09	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
5/15/2024 22:09	29402	BELT_T1	1	1	0	7.8	8	0.2	0	0	0	0	0	0	0	0
5/15/2024 22:09	20403	ASHF_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
5/15/2024 22:09	54203	PENN_T1	18	18	0	0.71	0.58	-0.13	0.71	0	0	0	0	0	0	0
5/15/2024 22:09	54201	PENN_T1	6	3	-3	0.62	1	0.38	0	0	0	0	0	0	0	0
5/15/2024 22:09	48301	ORWI_T1	2	2	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
5/15/2024 22:09	67803	WLAN_T1	322	572	250	0.16	0.23	0.07	-0.9	-0.92	0	0	0	0	0	0
5/15/2024 22:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/15/2024 22:09	67502	WEWI_T2	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
5/15/2024 22:09	20401	ASHF_T2	8	2	-6	0.59	0.5	-0.09	0	0	0	0	0	0	0	0
5/15/2024 22:09	56501	ROCK_T2	2	1	-1	0.2	0.1	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 22:09	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.48	0	0	0	0	0	0
5/15/2024 22:09	67605	WARW_T1	27	13	-14	0.6	0.41	-0.19	0	0	0	0	0	0	0	0
5/15/2024 22:09	67805	WLAN_T1	480	531	51	0.53	0.62	0.09	0	0	0	0	0	0	0	0
5/15/2024 22:09	67204	TEHI_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
5/15/2024 22:09	63602	LETO_T1	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
5/15/2024 22:09	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
5/15/2024 22:10	57203	ROSS_T1	0	0	0	0	0	0	-0.72	-0.68	0	0	0	0	0	0
5/15/2024 22:10	52101	MEIS_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
5/15/2024 22:10	67802	WLAN_T1	21	22	1	0.22	0.3	0.08	0	0	0	0	0	0	0	0
5/15/2024 22:10	46302	ROHR_T1	231	215	-16	0.73	0.63	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:10	59301	MCAL_T1	3	2	-1	0.8	0.65	-0.15	-1.18	-1.2	0	0	0	0	0	0
5/15/2024 22:10	64701	LITI_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
5/15/2024 22:10	67805	WLAN_T1	480	531	51	0.53	0.62	0.09	0	0	0	0	0	0	0	0
5/15/2024 22:10	29402	BELT_T1	1	1	0	7.8	8	0.2	0	0	0	0	0	0	0	0
5/15/2024 22:10	62106	ELAN_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:10	44201	POIN_T1	277	619	342	0.22	0.41	0.19	-2.49	-2.45	0	0	0	0	0	0
5/15/2024 22:10	56501	ROCK_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:10	62105	ELAN_T1	93	0	-93	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/15/2024 22:10	67204	TEHI_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
5/15/2024 22:10	55003	NEWP_T2	10	7	-3	0.38	0.17	-0.21	-0.14	-0.25	0	0	0	0	0	0
5/15/2024 22:10	67803	WLAN_T1	322	572	250	0.16	0.23	0.07	0	0	0	0	0	0	0	0
5/15/2024 22:10	52102	MEIS_T1	6	2	-4	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
5/15/2024 22:10	61503	EPET_T1	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
5/15/2024 22:10	56803	BENV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/15/2024 22:10	59302	MCAL_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
5/15/2024 22:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/15/2024 22:10	62103	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/15/2024 22:10	14404	SSLA_T1	3	1	-2	2.3	5.8	3.5	0	0	0	0	0	0	0	0
5/15/2024 22:10	67804	WLAN_T1	106	407	301	0.18	0.22	0.04	-2.28	-2.28	0	0	0	0	0	0
5/15/2024 22:10	58001	WCAR_T1	7	4	-3	1.04	1.1	0.06	0	0	0	0	0	0	0	0
5/15/2024 22:10	14401	SSLA_T1	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/15/2024 22:10	64702	LITI_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
5/15/2024 22:10	13704	SCHN_T2	0	5	5	0	0.16	0.16	-0.44	-0.43	0	0	0	0	0	0
5/15/2024 22:10	58003	WCAR_T1	45	1	-44	0.21	1.6	1.39	0.59	0.54	0	0	0	0	0	0
5/15/2024 22:10	58402	MORO_T1	0	0	0	0	0	0	-1.18	-1.18	0	0	0	0	0	0
5/15/2024 22:10	67801	WLAN_T1	28	100	72	0.12	0.18	0.06	0	0	0	0	0	0	0	0
5/15/2024 22:10	40103	HUNT_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
5/15/2024 22:10	14403	SSLA_T1	1	0	-1	0.1	0	-0.1	0.53	0.5	0	0	0	0	0	0
5/15/2024 22:10	46301	ROHR_T1	402	390	-12	1.13	0.96	-0.17	0.16	0.18	0	0	0	0	0	0
5/15/2024 22:10	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 22:10	56802	BENV_T2	128	2	-126	0.23	1	0.77	-1.44	-1.48	0	0	0	0	0	0
5/15/2024 22:10	14402	SSLA_T1	16	0	-16	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/15/2024 22:10	62101	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/15/2024 22:10	56801	BENV_T1	14	13	-1	0.62	0.41	-0.21	-0.55	-0.55	0	0	0	0	0	0
5/15/2024 22:10	62102	ELAN_T1	0	0	0	0	0	0	1.11	1.24	0	0	0	0	0	0
5/15/2024 22:11	40302	TAMA_T3	1	0	-1	0.1	0	-0.1	0.04	0.04	0	0	0	0	0	0
5/15/2024 22:11	58401	MORO_T1	0	0	0	0	0	0	-1.27	-1.3	0	0	0	0	0	0
5/15/2024 22:11	13704	SCHN_T2	0	5	5	0	0.16	0.16	-0.44	-0.43	0	0	0	0	0	0
5/15/2024 22:11	65207	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/15/2024 22:11	66502	SMAN_T2	0	0	0	0	0	0	-0.12	-0.19	0	0	0	0	0	0
5/15/2024 22:11	64702	LITI_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
5/15/2024 22:11	65203	PRIN_T1	7	3	-4	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
5/15/2024 22:11	43505	WWIL_T1	1	1	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
5/15/2024 22:11	56803	BENV_T1	1	0	-1	0.3	0	-0.3	-0.11	-0.11	0	0	0	0	0	0
5/15/2024 22:11	60101	COCA_T1	0	0	0	0	0	0	0.2	0.15	0	0	0	0	0	0
5/15/2024 22:11	43506	WWIL_T1	1	3	2	2	0.8	-1.2	0	0	0	0	0	0	0	0
5/15/2024 22:11	51102	CARL_T1	151	6	-145	0.31	0.12	-0.19	0	0	0	0	0	0	0	0
5/15/2024 22:11	58006	WCAR_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
5/15/2024 22:11	65205	PRIN_T1	11	3	-8	0.29	0.8	0.51	0	0	0	0	0	0	0	0
5/15/2024 22:11	51101	CARL_T1	1	0	-1	0.1	0	-0.1	-0.81	-1.54	0	1	1	0	600	600
5/15/2024 22:11	58003	WCAR_T1	45	1	-44	0.21	1.6	1.39	0.59	0.54	0	0	0	0	0	0
5/15/2024 22:11	48302	ORWI_T2	2	2	0	1.55	1.25	-0.3	-0.16	-0.15	0	0	0	0	0	0
5/15/2024 22:11	55002	NEWP_T1	5	5	0	1.1	0.7	-0.4	-0.3	-0.31	0	0	0	0	0	0
5/15/2024 22:11	53501	EVIL_T2	1	2	1	1.3	1.05	-0.25	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/15/2024 22:11	67502	WEWI_T2	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
5/15/2024 22:11	59003	MIFF_T1	1	0	-1	0.2	0	-0.2	1.17	1.2	0	0	0	0	0	0
5/15/2024 22:11	67801	WLAN_T1	28	100	72	0.12	0.18	0.06	0	0	0	0	0	0	0	0
5/15/2024 22:11	59002	MIFF_T1	4	1	-3	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:11	56802	BENV_T2	128	2	-126	0.23	1	0.77	-1.44	-1.48	0	0	0	0	0	0
5/15/2024 22:11	51108	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:11	67802	WLAN_T1	21	22	1	0.22	0.3	0.08	0	0	0	0	0	0	0	0
5/15/2024 22:11	53502	EVIL_T2	0	0	0	0	0	0	0.6	0.62	0	0	0	0	0	0
5/15/2024 22:11	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 22:11	67804	WLAN_T1	106	407	301	0.18	0.22	0.04	-1.14	-1.14	0	0	0	0	0	0
5/15/2024 22:11	67805	WLAN_T1	480	531	51	0.53	0.62	0.09	-1.48	-1.49	0	0	0	0	0	0
5/15/2024 22:11	56801	BENV_T1	14	13	-1	0.62	0.41	-0.21	0	0	0	0	0	0	0	0
5/15/2024 22:11	62607	ENGL_T1	40	48	8	0.12	0.1	-0.02	-1.16	-1.17	1	1	0	300	300	0
5/15/2024 22:11	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 22:11	44504	HAMI_T2	0	0	0	0	0	0	-1.33	-1.32	0	0	0	0	0	0
5/15/2024 22:11	57205	ROSS_T1	0	0	0	0	0	0	0.1	-2	0	2	2	0	1800	1800
5/15/2024 22:11	67803	WLAN_T1	322	572	250	0.16	0.23	0.07	-0.9	-0.92	0	0	0	0	0	0
5/15/2024 22:11	51305	WIND_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
5/15/2024 22:11	62605	ENGL_T1	5	6	1	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
5/15/2024 22:11	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
5/15/2024 22:11	65503	MOJO_T2	0	0	0	0	0	0	-0.34	-1.3	0	1	1	0	900	900
5/15/2024 22:11	66505	SMAN_T2	3	3	0	1.03	0.5	-0.53	0	0	0	0	0	0	0	0
5/15/2024 22:11	65202	PRIN_T1	8	2	-6	0.1	0.1	0	0	0	0	0	0	0	0	0
5/15/2024 22:11	58001	WCAR_T1	7	4	-3	1.04	1.1	0.06	0	0	0	0	0	0	0	0
5/15/2024 22:11	67503	WEWI_T2	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
5/15/2024 22:11	43504	WWIL_T1	12	17	5	0.49	0.89	0.4	0.49	0.49	0	0	0	0	0	0
5/15/2024 22:11	44502	HAMI_T2	1	1	0	3	3.7	0.7	0	0	0	0	0	0	0	0
5/15/2024 22:12	67505	WEWI_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
5/15/2024 22:12	57303	MOAL_T2	1	1	0	7.7	7.7	0	0	0	0	0	0	0	0	0
5/15/2024 22:12	59302	MCAL_T1	1	1	0	0.4	0.1	-0.3	-0.34	-0.35	0	0	0	0	0	0
5/15/2024 22:12	59301	MCAL_T1	3	2	-1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
5/15/2024 22:12	44301	BEAV_T2	0	0	0	0	0	0	0.22	0.59	0	0	0	0	0	0
5/15/2024 22:12	56501	ROCK_T2	2	1	-1	0.2	0.1	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 22:12	52402	GRPA_T2	11	4	-7	0.53	0.75	0.22	0	0	0	0	0	0	0	0
5/15/2024 22:12	13103	NHAM_T2	0	0	0	0	0	0	-1.75	-1.77	0	0	0	0	0	0
5/15/2024 22:12	52404	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/15/2024 22:12	53901	HALI_T2	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
5/15/2024 22:12	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
5/15/2024 22:12	57304	MOAL_T2	1	0	-1	0.3	0	-0.3	-0.59	-0.56	0	0	0	0	0	0
5/15/2024 22:12	62607	ENGL_T1	40	48	8	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
5/15/2024 22:12	60902	DONG_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
5/15/2024 22:12	49804	UNIV_T1	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:12	62605	ENGL_T1	5	6	1	0.2	0.18	-0.02	-0.8	-0.84	0	0	0	0	0	0
5/15/2024 22:12	11301	EMMA_T1	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
5/15/2024 22:12	58401	MORO_T1	0	0	0	0	0	0	-1.27	-1.3	0	0	0	0	0	0
5/15/2024 22:12	58006	WCAR_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
5/15/2024 22:12	53903	HALI_T2	2	2	0	1.6	1.3	-0.3	-0.21	-0.21	0	0	0	0	0	0
5/15/2024 22:12	67501	WEWI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:12	66703	STRA_T1	0	9	9	0	0.27	0.27	-0.36	-0.41	0	0	0	0	0	0
5/15/2024 22:12	67703	WERN_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
5/15/2024 22:12	54202	PENN_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
5/15/2024 22:12	63602	LETO_T1	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
5/15/2024 22:12	54204	PENN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:12	49803	UNIV_T1	0	0	0	0	0	0	0.14	-1.23	0	0	0	0	0	0
5/15/2024 22:12	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:12	45602	WOOL_T1	3	3	0	0.87	0.67	-0.2	0.42	0.42	0	0	0	0	0	0
5/15/2024 22:12	56802	BENV_T2	128	2	-126	0.23	1	0.77	-3.6	-3.7	0	0	0	0	0	0
5/15/2024 22:12	52401	GRPA_T2	1	1	0	0.9	0.4	-0.5	-0.54	-0.55	0	0	0	0	0	0
5/15/2024 22:12	63401	HONY_T1	0	0	0	0	0	0	1.33	1.06	0	0	0	0	0	0
5/15/2024 22:13	62605	ENGL_T1	5	6	1	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
5/15/2024 22:13	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:13	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
5/15/2024 22:13	67804	WLAN_T1	106	407	301	0.18	0.22	0.04	-1.14	-1.14	0	0	0	0	0	0
5/15/2024 22:13	67803	WLAN_T1	322	572	250	0.16	0.23	0.07	0	0	0	0	0	0	0	0
5/15/2024 22:13	63305	GREE_T1	0	3	3	0	0.17	0.17	-1.18	-1.12	0	0	0	0	0	0
5/15/2024 22:13	62607	ENGL_T1	40	48	8	0.12	0.1	-0.02	-1.16	-1.17	1	1	0	300	300	0
5/15/2024 22:13	67805	WLAN_T1	480	531	51	0.53	0.62	0.09	0	0	0	0	0	0	0	0
5/15/2024 22:13	67802	WLAN_T1	21	22	1	0.22	0.3	0.08	0	0	0	0	0	0	0	0
5/15/2024 22:13	53901	HALI_T2	1	1	0	1.1	0.9	-0.2	-1.42	-1.47	0	0	0	0	0	0
5/15/2024 22:13	54203	PENN_T1	18	18	0	0.71	0.58	-0.13	0.71	0	0	0	0	0	0	0
5/15/2024 22:13	67801	WLAN_T1	28	100	72	0.12	0.18	0.06	0	0	0	0	0	0	0	0
5/15/2024 22:13	62106	ELAN_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:13	53903	HALI_T2	2	2	0	1.6	1.3	-0.3	0	0	0	0	0	0	0	0
5/15/2024 22:13	62102	ELAN_T1	0	0	0	0	0	0	0.56	0.62	0	0	0	0	0	0
5/15/2024 22:13	62103	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/15/2024 22:13	62105	ELAN_T1	93	0	-93	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/15/2024 22:13	60101	COCA_T1	0	0	0	0	0	0	0.2	0.15	0	0	0	0	0	0
5/15/2024 22:13	56802	BENV_T2	128	2	-126	0.23	1	0.77	-1.44	-1.48	0	0	0	0	0	0
5/15/2024 22:13	54201	PENN_T1	6	3	-3	0.62	1	0.38	0.38	0.33	0	0	0	0	0	0
5/15/2024 22:13	62101	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/15/2024 22:13	55102	WERT_T2	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
5/15/2024 22:14	41801	GOCI_T2	97	13	-84	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:14	46302	ROHR_T1	231	215	-16	0.73	0.63	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:14	41802	GOCI_T2	12	0	-12	0.16	0	-0.16	0	0	0	0	0	0	0	0
5/15/2024 22:14	65205	PRIN_T1	11	3	-8	0.29	0.8	0.51	0	0	0	0	0	0	0	0
5/15/2024 22:14	42903	MIDD_T2	2	0	-2	1	0	-1	0	0	0	0	0	0	0	0
5/15/2024 22:14	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
5/15/2024 22:14	23203	HIRU_T2	0	0	0	0	0	0	-0.07	-0.16	0	0	0	0	0	0
5/15/2024 22:14	65202	PRIN_T1	8	2	-6	0.1	0.1	0	0	0	0	0	0	0	0	0
5/15/2024 22:14	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.48	0	0	0	0	0	0
5/15/2024 22:14	67805	WLAN_T1	480	531	51	0.53	0.62	0.09	0	0	0	0	0	0	0	0
5/15/2024 22:14	17805	GILB_T2	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
5/15/2024 22:14	55002	NEWP_T1	5	5	0	1.1	0.7	-0.4	-0.3	-0.31	0	0	0	0	0	0
5/15/2024 22:14	67501	WEWI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:14	42902	MIDD_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
5/15/2024 22:14	64402	LAND_T2	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
5/15/2024 22:14	46301	ROHR_T1	402	390	-12	1.13	0.96	-0.17	0.16	0.18	0	0	0	0	0	0
5/15/2024 22:14	13704	SCHN_T2	0	5	5	0	0.16	0.16	-0.44	-0.43	0	0	0	0	0	0
5/15/2024 22:14	45501	DERR_T2	1	1	0	0.5	0.3	-0.2	-0.2	-0.14	0	0	0	0	0	0
5/15/2024 22:14	67505	WEWI_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
5/15/2024 22:14	63804	HEMP_T1	1	1	0	5.8	5.5	-0.3	-0.95	-2.27	0	0	0	0	0	0
5/15/2024 22:14	67804	WLAN_T1	106	407	301	0.18	0.22	0.04	-1.14	-1.14	0	0	0	0	0	0
5/15/2024 22:14	67203	TEHI_T1	0	0	0	0	0	0	2.14	2.08	0	0	0	0	0	0
5/15/2024 22:14	67802	WLAN_T1	21	22	1	0.22	0.3	0.08	0	0	0	0	0	0	0	0
5/15/2024 22:14	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/15/2024 22:14	67801	WLAN_T1	28	100	72	0.12	0.18	0.06	0	0	0	0	0	0	0	0
5/15/2024 22:14	65203	PRIN_T1	7	3	-4	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
5/15/2024 22:14	67803	WLAN_T1	322	572	250	0.16	0.23	0.07	-0.9	-0.92	0	0	0	0	0	0
5/15/2024 22:15	57304	MOAL_T2	0	0	0	0	0	0	-0.59	-0.56	0	0	0	0	0	0
5/15/2024 22:15	60502	NMAN_T2	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
5/15/2024 22:15	52002	LING_T2	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
5/15/2024 22:15	67802	WLAN_T1	22	16	-6	0.28	0.28	0	0	0	0	0	0	0	0	0
5/15/2024 22:15	64101	REFR_T1	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
5/15/2024 22:15	67805	WLAN_T1	531	515	-16	0.62	0.57	-0.05	0	0	0	0	0	0	0	0
5/15/2024 22:15	62605	ENGL_T1	5	6	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
5/15/2024 22:15	52006	LING_T2	2	3	1	0.55	1.17	0.62	0	0	0	0	0	0	0	0
5/15/2024 22:15	52501	PROG_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
5/15/2024 22:15	67804	WLAN_T1	294	369	75	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
5/15/2024 22:15	62601	ENGL_T1	0	0	0	0	0	0	-0.13	-0.19	0	0	0	0	0	0
5/15/2024 22:15	20403	ASHF_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
5/15/2024 22:15	56802	BENV_T2	1	1	0	1	0.9	-0.1	-1.44	-1.48	0	0	0	0	0	0
5/15/2024 22:15	52004	LING_T2	0	1	1	0	0.5	0.5	0.11	0.12	0	0	0	0	0	0
5/15/2024 22:15	67801	WLAN_T1	95	79	-16	0.18	0.15	-0.03	0.94	0.9	0	0	0	0	0	0
5/15/2024 22:15	62607	ENGL_T1	45	11	-34	0.1	0.1	0	0	0	0	0	0	0	0	0
5/15/2024 22:15	52403	GRPA_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
5/15/2024 22:15	57303	MOAL_T2	1	1	0	7.7	7.4	-0.3	0	0	0	0	0	0	0	0
5/15/2024 22:15	60501	NMAN_T2	3	3	0	5	5.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:15	63305	GREE_T1	3	3	0	0.17	0.13	-0.04	-1.18	-1.12	0	0	0	0	0	0
5/15/2024 22:15	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 22:15	20401	ASHF_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
5/15/2024 22:15	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
5/15/2024 22:15	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 22:15	59101	WALK_T2	0	0	0	0	0	0	1.04	1.05	0	0	0	0	0	0
5/15/2024 22:15	67803	WLAN_T1	550	480	-70	0.24	0.2	-0.04	-1.8	-1.84	0	0	0	0	0	0
5/15/2024 22:15	52401	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/15/2024 22:15	52402	GRPA_T2	4	4	0	0.63	0.68	0.05	0	0	0	0	0	0	0	0
5/15/2024 22:16	48302	ORWI_T2	2	2	0	1.15	1.3	0.15	-0.16	-0.15	0	0	0	0	0	0
5/15/2024 22:16	67502	WEWI_T2	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
5/15/2024 22:16	67803	WLAN_T1	550	480	-70	0.24	0.2	-0.04	-0.9	-0.92	0	0	0	0	0	0
5/15/2024 22:16	62605	ENGL_T1	5	6	1	0.2	0.17	-0.03	-1.6	-1.68	0	0	0	0	0	0
5/15/2024 22:16	23203	HIRU_T2	0	0	0	0	0	0	-0.07	-0.16	0	0	0	0	0	0
5/15/2024 22:16	54201	PENN_T1	3	3	0	0.9	1	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:16	62105	ELAN_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
5/15/2024 22:16	58003	WCAR_T1	1	1	0	1.6	1.2	-0.4	0.59	0.54	0	0	0	0	0	0
5/15/2024 22:16	45501	DERR_T2	1	1	0	0.3	0.5	0.2	-0.2	-0.14	0	0	0	0	0	0
5/15/2024 22:16	52101	MEIS_T1	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
5/15/2024 22:16	52501	PROG_T1	0	0	0	0	0	0	0.79	0.83	0	0	0	0	0	0
5/15/2024 22:16	52401	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/15/2024 22:16	48901	FOSP_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
5/15/2024 22:16	65804	RTWN_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
5/15/2024 22:16	46301	ROHR_T1	388	368	-20	0.96	0.84	-0.12	0.16	0.18	0	0	0	0	0	0
5/15/2024 22:16	57403	SPAN_T1	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
5/15/2024 22:16	65503	MOJO_T2	0	0	0	0	0	0	-0.34	-1.3	0	1	1	0	900	900
5/15/2024 22:16	40601	PIGR_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:16	62104	ELAN_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
5/15/2024 22:16	56802	BENV_T2	1	1	0	1	0.9	-0.1	-1.44	-1.48	0	0	0	0	0	0
5/15/2024 22:16	66505	SMAN_T2	3	3	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:16	67805	WLAN_T1	531	515	-16	0.62	0.57	-0.05	0	0	0	0	0	0	0	0
5/15/2024 22:16	55002	NEWP_T1	4	5	1	0.83	0.62	-0.21	-0.3	-0.31	0	0	0	0	0	0
5/15/2024 22:16	67203	TEHI_T1	0	0	0	0	0	0	2.14	2.08	0	0	0	0	0	0
5/15/2024 22:16	67804	WLAN_T1	294	369	75	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
5/15/2024 22:16	62607	ENGL_T1	45	11	-34	0.1	0.1	0	-2.32	-2.34	2	2	0	600	600	0
5/15/2024 22:16	43302	WATS_T2	4	4	0	1.05	1.33	0.28	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/15/2024 22:16	56501	ROCK_T2	1	2	1	0.1	0.2	0.1	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 22:16	67802	WLAN_T1	22	16	-6	0.28	0.28	0	0	0	0	0	0	0	0	0
5/15/2024 22:16	60802	BUCK_T2	14	0	-14	0.11	0	-0.11	0.13	0.15	0	0	0	0	0	0
5/15/2024 22:16	52102	MEIS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:16	57401	SPAN_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
5/15/2024 22:16	52402	GRPA_T2	4	4	0	0.63	0.68	0.05	0	0	0	0	0	0	0	0
5/15/2024 22:16	40602	PIGR_T1	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
5/15/2024 22:16	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:16	54203	PENN_T1	18	18	0	0.41	0.58	0.17	0.71	0	0	0	0	0	0	0
5/15/2024 22:16	64801	MONE_T2	2	1	-1	0.3	0.8	0.5	0.23	0.22	0	0	0	0	0	0
5/15/2024 22:16	58001	WCAR_T1	4	4	0	1.1	0.65	-0.45	0	0	0	0	0	0	0	0
5/15/2024 22:16	66502	SMAN_T2	0	0	0	0	0	0	-0.37	-0.57	0	0	0	0	0	0
5/15/2024 22:16	61503	EPET_T1	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
5/15/2024 22:16	14403	SSLA_T1	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
5/15/2024 22:16	46302	ROHR_T1	215	194	-21	0.63	0.51	-0.12	0.15	0.16	0	0	0	0	0	0
5/15/2024 22:16	52403	GRPA_T2	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
5/15/2024 22:16	58401	MORO_T1	0	0	0	0	0	0	-1.27	-1.3	0	0	0	0	0	0
5/15/2024 22:16	67801	WLAN_T1	95	79	-16	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
5/15/2024 22:16	14404	SSLA_T1	1	1	0	5.7	6.1	0.4	0	0	0	0	0	0	0	0
5/15/2024 22:17	56501	ROCK_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:17	47001	HUGH_T2	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
5/15/2024 22:17	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 22:17	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:17	57302	MOAL_T2	0	0	0	0	0	0	-1.58	-1.6	0	0	0	0	0	0
5/15/2024 22:17	46002	BERW_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:17	46004	BERW_T2	0	0	0	0	0	0	0.07	0.1	0	0	0	0	0	0
5/15/2024 22:17	47802	MOCA_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
5/15/2024 22:17	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.48	0	0	0	0	0	0
5/15/2024 22:17	46003	BERW_T2	1	7	6	0.1	0.11	0.01	0	0	0	0	0	0	0	0
5/15/2024 22:17	46401	FLEM_T2	0	2	2	0	0.1	0.1	0.47	0.47	0	0	0	0	0	0
5/15/2024 22:17	45602	WOOL_T1	3	2	-1	0.67	0.45	-0.22	0.42	0.42	0	0	0	0	0	0
5/15/2024 22:17	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 22:17	62102	ELAN_T1	0	0	0	0	0	0	0.56	0.62	0	0	0	0	0	0
5/15/2024 22:17	57303	MOAL_T2	1	1	0	7.7	7.4	-0.3	0	0	0	0	0	0	0	0
5/15/2024 22:17	47101	MARL_T1	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
5/15/2024 22:17	48902	FOSP_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
5/15/2024 22:17	47002	HUGH_T2	2	3	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
5/15/2024 22:17	10805	CHHI_T2	1	1	0	7.4	7.1	-0.3	-1.15	-1.18	0	0	0	0	0	0
5/15/2024 22:17	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
5/15/2024 22:18	63801	HEMP_T1	0	0	0	0	0	0	-1.49	-1.39	0	0	0	0	0	0
5/15/2024 22:18	58402	MORO_T1	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
5/15/2024 22:18	55002	NEWP_T1	4	5	1	0.83	0.62	-0.21	-0.3	-0.31	0	0	0	0	0	0
5/15/2024 22:18	62106	ELAN_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
5/15/2024 22:18	10805	CHHI_T2	1	1	0	7.4	7.1	-0.3	-1.15	-1.18	0	0	0	0	0	0
5/15/2024 22:18	57203	ROSS_T1	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
5/15/2024 22:18	42802	SELI_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
5/15/2024 22:18	48901	FOSP_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
5/15/2024 22:18	63804	HEMP_T1	1	1	0	5.9	5.5	-0.4	0	0	0	0	0	0	0	0
5/15/2024 22:18	62102	ELAN_T1	0	0	0	0	0	0	1.11	1.24	0	0	0	0	0	0
5/15/2024 22:18	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
5/15/2024 22:18	67401	WAKE_T2	56	26	-30	0.19	0.16	-0.03	0	0	0	0	0	0	0	0
5/15/2024 22:19	61404	SLIT_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
5/15/2024 22:19	17805	GILB_T2	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
5/15/2024 22:19	53901	HALI_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
5/15/2024 22:19	63306	GREE_T1	0	0	0	0	0	0	-1.49	-1.47	1	1	0	900	900	0
5/15/2024 22:19	48901	FOSP_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
5/15/2024 22:19	66505	SMAN_T2	3	0	-3	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:19	56501	ROCK_T2	1	2	1	0.1	0.2	0.1	-0.01	-0.01	0	0	0	0	0	0
5/15/2024 22:19	52101	MEIS_T1	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
5/15/2024 22:19	52102	MEIS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:19	53903	HALI_T2	2	2	0	1.3	1.2	-0.1	-0.21	-0.21	0	0	0	0	0	0
5/15/2024 22:19	51402	LYKE_T1	0	0	0	0	0	0	-1.48	-1.47	0	0	0	0	0	0
5/15/2024 22:19	47101	MARL_T1	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
5/15/2024 22:19	63305	GREE_T1	3	3	0	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
5/15/2024 22:19	66502	SMAN_T2	0	0	0	0	0	0	-0.25	-0.38	0	0	0	0	0	0
5/15/2024 22:19	53902	HALI_T2	1	1	0	5.1	5.6	0.5	0	0	0	0	0	0	0	0
5/15/2024 22:19	40601	PIGR_T1	0	3	3	0	0.1	0.1	-0.17	-0.18	0	0	0	0	0	0
5/15/2024 22:19	17804	GILB_T2	0	13	13	0	0.15	0.15	0	0	0	0	0	0	0	0
5/15/2024 22:20	52102	MEIS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:20	67401	WAKE_T2	56	26	-30	0.19	0.16	-0.03	0	0	0	0	0	0	0	0
5/15/2024 22:20	40601	PIGR_T1	0	3	3	0	0.1	0.1	-0.17	-0.18	0	0	0	0	0	0
5/15/2024 22:20	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 22:20	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.48	0	0	0	0	0	0
5/15/2024 22:20	57203	ROSS_T1	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
5/15/2024 22:20	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 22:20	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
5/15/2024 22:20	56802	BENV_T2	1	1	0	1	0.9	-0.1	-0.72	-0.74	0	0	0	0	0	0
5/15/2024 22:20	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
5/15/2024 22:20	52101	MEIS_T1	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
5/15/2024 22:20	46506	LOHA_T1	1	1	0	0.4	0.4	0	-0.48	-0.47	0	0	0	0	0	0
5/15/2024 22:20	42902	MIDD_T2	0	3	3	0	0.13	0.13	-0.54	-0.55	0	0	0	0	0	0
5/15/2024 22:20	46504	LOHA_T1	26	55	29	0.27	0.6	0.33	0	0	0	0	0	0	0	0
5/15/2024 22:21	64802	MONE_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
5/15/2024 22:21	66502	SMAN_T2	0	0	0	0	0	0	-0.12	-0.19	0	0	0	0	0	0
5/15/2024 22:21	47101	MARL_T1	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
5/15/2024 22:21	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.48	0	0	0	0	0	0
5/15/2024 22:21	53901	HALI_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
5/15/2024 22:21	53903	HALI_T2	2	2	0	1.3	1.2	-0.1	-0.21	-0.21	0	0	0	0	0	0
5/15/2024 22:21	45402	WBLO_T2	2	2	0	0.8	1.05	0.25	-1.85	-1.85	0	0	0	0	0	0
5/15/2024 22:21	52401	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/15/2024 22:21	64801	MONE_T2	2	1	-1	0.3	0.8	0.5	0	0	0	0	0	0	0	0
5/15/2024 22:21	52402	GRPA_T2	4	4	0	0.63	0.68	0.05	-0.9	-0.92	0	0	0	0	0	0
5/15/2024 22:21	28403	HART_T2	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
5/15/2024 22:21	66703	STRA_T1	4	9	5	0.3	0.27	-0.03	-0.36	-0.41	0	0	0	0	0	0
5/15/2024 22:21	20601	GRWO_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
5/15/2024 22:21	62102	ELAN_T1	0	0	0	0	0	0	1.11	1.24	0	0	0	0	0	0
5/15/2024 22:21	66505	SMAN_T2	3	3	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:21	53902	HALI_T2	1	1	0	5.1	5.6	0.5	0	0	0	0	0	0	0	0
5/15/2024 22:21	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 22:22	67802	WLAN_T1	22	16	-6	0.28	0.28	0	0	0	0	0	0	0	0	0
5/15/2024 22:22	17804	GILB_T2	0	13	13	0	0.15	0.15	-0.61	-0.61	0	0	0	0	0	0
5/15/2024 22:22	46801	HEPB_T2	3	3	0	0.63	0.77	0.14	0.56	0.55	0	0	0	0	0	0
5/15/2024 22:22	46803	HEPB_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/15/2024 22:22	43302	WATS_T2	4	4	0	1.05	1.33	0.28	0	0	0	0	0	0	0	0
5/15/2024 22:22	67803	WLAN_T1	550	480	-70	0.24	0.2	-0.04	-0.9	-0.92	0	0	0	0	0	0
5/15/2024 22:22	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:22	24603	VARD_T2	86	246	160	0.28	0.29	0.01	0	0	0	0	0	0	0	0
5/15/2024 22:22	25501	MADI_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/15/2024 22:22	67804	WLAN_T1	294	369	75	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
5/15/2024 22:22	49803	UNIV_T1	0	0	0	0	0	0	0.14	-1.23	0	0	0	0	0	0
5/15/2024 22:22	67805	WLAN_T1	531	515	-16	0.62	0.57	-0.05	0	0	0	0	0	0	0	0
5/15/2024 22:22	49804	UNIV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/15/2024 22:22	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
5/15/2024 22:22	25503	MADI_T1	146	247	101	0.63	0.73	0.1	-1.05	-1.07	0	0	0	0	0	0
5/15/2024 22:22	42802	SELI_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
5/15/2024 22:22	67801	WLAN_T1	95	79	-16	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
5/15/2024 22:22	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 22:22	24602	VARD_T2	833	983	150	1.04	1.13	0.09	-1.07	-1.04	0	0	0	0	0	0
5/15/2024 22:23	43302	WATS_T2	4	4	0	1.05	1.33	0.28	0	0	0	0	0	0	0	0
5/15/2024 22:23	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:23	24204	PROV_T3	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
5/15/2024 22:23	24201	PROV_T3	1	1	0	8.2	7.4	-0.8	-0.17	-0.17	0	0	0	0	0	0
5/15/2024 22:23	41502	FAIR_T2	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
5/15/2024 22:23	53902	HALI_T2	1	1	0	5.1	5.6	0.5	0	0	0	0	0	0	0	0
5/15/2024 22:23	61702	ELIZ_T2	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
5/15/2024 22:23	53901	HALI_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
5/15/2024 22:23	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
5/15/2024 22:23	20603	GRWO_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
5/15/2024 22:23	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
5/15/2024 22:23	53903	HALI_T2	2	2	0	1.3	1.2	-0.1	-0.21	-0.21	0	0	0	0	0	0
5/15/2024 22:23	55002	NEWP_T1	4	5	1	0.83	0.62	-0.21	0	0	0	0	0	0	0	0
5/15/2024 22:23	55001	NEWP_T1	0	0	0	0	0	0	-0.12	-0.17	0	0	0	0	0	0
5/15/2024 22:24	41501	FAIR_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
5/15/2024 22:24	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
5/15/2024 22:24	24202	PROV_T4	0	0	0	0	0	0	0.17	0.12	0	0	0	0	0	0
5/15/2024 22:24	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/15/2024 22:25	67802	WLAN_T1	22	16	-6	0.28	0.28	0	0	0	0	0	0	0	0	0
5/15/2024 22:25	40101	HUNT_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
5/15/2024 22:25	67805	WLAN_T1	531	515	-16	0.62	0.57	-0.05	-1.49	-1.52	0	0	0	0	0	0
5/15/2024 22:25	67803	WLAN_T1	550	480	-70	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
5/15/2024 22:25	67801	WLAN_T1	95	79	-16	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
5/15/2024 22:25	42902	MIDD_T2	0	3	3	0	0.13	0.13	-0.55	-0.57	0	0	0	0	0	0
5/15/2024 22:25	67804	WLAN_T1	294	369	75	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
5/15/2024 22:26	52102	MEIS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:26	52101	MEIS_T1	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
5/15/2024 22:26	67801	WLAN_T1	95	79	-16	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
5/15/2024 22:26	67802	WLAN_T1	22	16	-6	0.28	0.28	0	0	0	0	0	0	0	0	0
5/15/2024 22:26	46004	BERW_T2	0	0	0	0	0	0	0.1	-0.01	0	0	0	0	0	0
5/15/2024 22:26	45402	WBLO_T2	2	2	0	0.8	1.05	0.25	-3.69	-3.71	0	0	0	0	0	0
5/15/2024 22:26	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
5/15/2024 22:26	26603	BROO_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
5/15/2024 22:26	46102	MACI_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
5/15/2024 22:26	67803	WLAN_T1	550	480	-70	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
5/15/2024 22:26	67805	WLAN_T1	531	515	-16	0.62	0.57	-0.05	0	0	0	0	0	0	0	0
5/15/2024 22:26	14404	SSLA_T1	1	1	0	5.7	6.1	0.4	0	0	0	0	0	0	0	0
5/15/2024 22:26	67804	WLAN_T1	294	369	75	0.23	0.21	-0.02	-1.14	-1.14	0	0	0	0	0	0
5/15/2024 22:26	46002	BERW_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:26	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:26	14401	SSLA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
5/15/2024 22:26	43302	WATS_T2	4	4	0	1.05	1.33	0.28	0	0	0	0	0	0	0	0
5/15/2024 22:26	46003	BERW_T2	1	7	6	0.1	0.11	0.01	0	0	0	0	0	0	0	0
5/15/2024 22:26	23001	SAJO_T1	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
5/15/2024 22:27	43801	SWIL_T1	100	29	-71	0.28	0.39	0.11	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/15/2024 22:27	49804	UNIV_T1	0	1	1	0	0.4	0.4	0.4	0.38	0	0	0	0	0	0
5/15/2024 22:27	43302	WATS_T2	4	4	0	1.05	1.33	0.28	0	0	0	0	0	0	0	0
5/15/2024 22:27	56802	BENV_T2	1	1	0	1	0.9	-0.1	-0.74	-0.76	0	0	0	0	0	0
5/15/2024 22:27	67401	WAKE_T2	56	26	-30	0.19	0.16	-0.03	0	0	0	0	0	0	0	0
5/15/2024 22:27	57205	ROSS_T1	0	0	0	0	0	0	-1	0.01	1	0	-1	900	0	-900
5/15/2024 22:27	43802	SWIL_T1	10	0	-10	0.11	0	-0.11	0.5	0.46	0	0	0	0	0	0
5/15/2024 22:27	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
5/15/2024 22:27	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:28	49804	UNIV_T1	0	1	1	0	0.4	0.4	0.4	0.38	0	0	0	0	0	0
5/15/2024 22:28	43302	WATS_T2	4	4	0	1.05	1.33	0.28	0	0	0	0	0	0	0	0
5/15/2024 22:28	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
5/15/2024 22:28	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:29	45602	WOOL_T1	3	2	-1	0.67	0.45	-0.22	0.42	0.33	0	0	0	0	0	0
5/15/2024 22:30	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:31	41902	REED_T1	0	0	0	0	0	0	1.86	1.8	0	0	0	0	0	0
5/15/2024 22:31	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/15/2024 22:32	48901	FOSP_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
5/15/2024 22:33	46302	ROHR_T1	184	221	37	0.53	0.63	0.1	0.16	0.14	0	0	0	0	0	0
5/15/2024 22:33	67502	WEWI_T2	0	0	0	0	0	0	-0.56	-0.59	0	0	0	0	0	0
5/15/2024 22:33	46301	ROHR_T1	346	409	63	0.87	0.89	0.02	0	0	0	0	0	0	0	0
5/15/2024 22:46	51102	CARL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/15/2024 22:46	51108	CARL_T1	0	0	0	0	0	0	-0.6	-0.68	0	0	0	0	0	0
5/15/2024 22:46	51104	CARL_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
5/15/2024 22:46	51103	CARL_T1	1	0	-1	6.7	0	-6.7	0	0	0	0	0	0	0	0
5/15/2024 22:56	48901	FOSP_T2	0	0	0	0	0	0	-0.45	-0.51	0	0	0	0	0	0
5/15/2024 22:57	41801	GOCI_T2	14	0	-14	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/15/2024 22:57	41802	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 3:03	28403	HART_T2	0	0	0	0	0	0	-1.1	-1.1	0	0	0	0	0	0
5/16/2024 3:20	65901	SAKR_T2	1	1	0	9.4	9.3	-0.1	-1.43	-1.46	0	0	0	0	0	0
5/16/2024 6:36	67703	WERN_T2	0	0	0	0	0	0	-0.39	-0.32	0	0	0	0	0	0
5/16/2024 6:38	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 6:38	40502	CRES_T2	6	18	12	0.12	0.24	0.12	-0.18	-0.18	0	0	0	0	0	0
5/16/2024 6:51	67703	WERN_T2	0	0	0	0	0	0	-0.64	-0.6	0	0	0	0	0	0
5/16/2024 6:54	67703	WERN_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
5/16/2024 6:56	29402	BELT_T1	1	1	0	7.7	8.3	0.6	0	0	0	0	0	0	0	0
5/16/2024 6:56	15001	BLMO_T1	3	4	1	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
5/16/2024 6:56	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/16/2024 6:57	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/16/2024 6:57	50105	HARR_T3	6	6	0	5.83	5.67	-0.16	0	0	0	0	0	0	0	0
5/16/2024 6:57	50103	HARR_T3	0	1	1	0	0.1	0.1	-0.79	-0.81	0	0	0	0	0	0
5/16/2024 6:57	29402	BELT_T1	1	1	0	7.7	8.3	0.6	0	0	0	0	0	0	0	0
5/16/2024 6:57	50201	HARR_T3	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/16/2024 6:58	17802	GILB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 7:01	65302	NBRI_T2	0	0	0	0	0	0	-1.26	-1.08	1	1	0	600	600	0
5/16/2024 7:02	65302	NBRI_T2	0	0	0	0	0	0	-1.26	-1.08	1	1	0	600	600	0
5/16/2024 7:03	66503	SMAN_T2	0	0	0	0	0	0	0.27	0.37	0	0	0	0	0	0
5/16/2024 7:03	66501	SMAN_T2	0	19	19	0	0.12	0.12	0	0	0	0	0	0	0	0
5/16/2024 7:03	66502	SMAN_T2	0	8	8	0	0.19	0.19	0	0	0	0	0	0	0	0
5/16/2024 7:05	52502	PROG_T2	0	0	0	0	0	0	-0.74	-0.77	1	1	0	900	900	0
5/16/2024 7:07	16301	ALPA_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
5/16/2024 7:09	29402	BELT_T1	1	1	0	8.1	8.3	0.2	0	0	0	0	0	0	0	0
5/16/2024 7:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/16/2024 7:17	43202	MVIL_T2	76	81	5	0.51	0.47	-0.04	-0.59	-0.61	0	0	0	0	0	0
5/16/2024 7:22	67001	STHI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
5/16/2024 7:33	58401	MORO_T1	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
5/16/2024 7:33	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 7:35	43202	MVIL_T2	58	88	30	0.49	0.58	0.09	-0.61	-0.63	0	0	0	0	0	0
5/16/2024 7:37	67002	STHI_T2	0	0	0	0	0	0	2.24	2.83	0	0	0	0	0	0
5/16/2024 7:37	62607	ENGL_T1	1	0	-1	0.5	0	-0.5	-0.87	-0.85	0	0	0	0	0	0
5/16/2024 7:39	45501	DERR_T2	1	1	0	0.1	0	-0.1	0.82	0.72	0	0	0	0	0	0
5/16/2024 7:39	29402	BELT_T1	1	2	1	7.8	4.55	-3.25	0	0	0	0	0	0	0	0
5/16/2024 7:39	60301	TWVA_T2	0	0	0	0	0	0	-1.49	-1.47	0	0	0	0	0	0
5/16/2024 7:39	29401	BELT_T1	0	42	42	0	0.16	0.16	0	0	1	1	0	900	900	0
5/16/2024 7:41	29401	BELT_T1	0	42	42	0	0.16	0.16	0	0	1	1	0	900	900	0
5/16/2024 7:41	29402	BELT_T1	1	2	1	7.8	4.55	-3.25	0	0	0	0	0	0	0	0
5/16/2024 7:42	29401	BELT_T1	0	42	42	0	0.16	0.16	0	0	1	1	0	900	900	0
5/16/2024 7:42	29402	BELT_T1	1	2	1	7.8	4.55	-3.25	0	0	0	0	0	0	0	0
5/16/2024 7:43	46803	HEPB_T2	0	1	1	0	0.1	0.1	0.45	0.45	0	0	0	0	0	0
5/16/2024 7:43	57106	SPHI_T2	3	3	0	1.27	1.3	0.03	0	0	0	0	0	0	0	0
5/16/2024 7:43	57104	SPHI_T2	0	0	0	0	0	0	-1.19	-1.17	1	1	0	900	900	0
5/16/2024 7:43	45501	DERR_T2	1	1	0	0.1	0	-0.1	0.82	0.72	0	0	0	0	0	0
5/16/2024 7:43	57101	SPHI_T2	6	6	0	1.2	0.93	-0.27	0	0	0	0	0	0	0	0
5/16/2024 7:43	46801	HEPB_T2	2	3	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/16/2024 7:45	59003	MIFF_T1	0	0	0	0	0	0	-0.59	-0.8	0	0	0	0	0	0
5/16/2024 7:47	40101	HUNT_T2	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
5/16/2024 7:48	13303	ORVI_T1	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
5/16/2024 7:48	13301	ORVI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 7:49	13301	ORVI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 7:49	13303	ORVI_T1	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
5/16/2024 7:50	64902	MILL_T2	0	0	0	0	0	0	-0.72	-0.73	1	1	0	900	900	0
5/16/2024 7:50	64903	MILL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 7:52	57006	WHHI_T2	0	0	0	0	0	0	2.48	2.57	0	0	0	0	0	0
5/16/2024 7:52	57003	WHHI_T2	3	3	0	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
5/16/2024 7:54	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 7:54	43301	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/16/2024 7:55	64904	MILL_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
5/16/2024 7:55	56802	BENV_T2	2	34	32	0.4	0.24	-0.16	-1.54	-1.46	0	0	0	0	0	0
5/16/2024 7:56	56802	BENV_T2	2	34	32	0.4	0.24	-0.16	-1.54	-1.46	0	0	0	0	0	0
5/16/2024 7:57	53903	HALI_T2	2	5	3	1	0.82	-0.18	0	0	0	0	0	0	0	0
5/16/2024 7:57	53902	HALI_T2	1	1	0	5.1	5.9	0.8	0	0	0	0	0	0	0	0
5/16/2024 7:57	53901	HALI_T2	1	1	0	0.6	1.5	0.9	-1.54	-1.47	0	0	0	0	0	0
5/16/2024 7:58	53903	HALI_T2	2	5	3	1	0.82	-0.18	0	0	0	0	0	0	0	0
5/16/2024 7:58	53902	HALI_T2	1	1	0	5.1	5.9	0.8	0	0	0	0	0	0	0	0
5/16/2024 7:58	53901	HALI_T2	1	1	0	0.6	1.5	0.9	-3.07	-2.95	0	0	0	0	0	0
5/16/2024 7:59	53903	HALI_T2	2	5	3	1	0.82	-0.18	0	0	0	0	0	0	0	0
5/16/2024 7:59	53901	HALI_T2	1	1	0	0.6	1.5	0.9	-1.54	-1.47	0	0	0	0	0	0
5/16/2024 7:59	53902	HALI_T2	1	1	0	5.1	5.9	0.8	0	0	0	0	0	0	0	0
5/16/2024 8:00	53901	HALI_T2	1	1	0	0.8	1.5	0.7	-1.54	-1.47	0	0	0	0	0	0
5/16/2024 8:00	53903	HALI_T2	2	6	4	1.2	0.95	-0.25	0	0	0	0	0	0	0	0
5/16/2024 8:00	53902	HALI_T2	1	1	0	5.3	5.9	0.6	0	0	0	0	0	0	0	0
5/16/2024 8:00	45501	DERR_T2	0	2	2	0	0.25	0.25	0.72	0.69	0	0	0	0	0	0
5/16/2024 8:00	50201	HARR_T3	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
5/16/2024 8:00	50105	HARR_T3	6	6	0	5.68	6.17	0.49	0	0	0	0	0	0	0	0
5/16/2024 8:00	50103	HARR_T3	2	0	-2	0.65	0	-0.65	-0.84	-0.8	0	0	0	0	0	0
5/16/2024 8:01	53903	HALI_T2	2	6	4	1.2	0.95	-0.25	0	0	0	0	0	0	0	0
5/16/2024 8:01	64701	LITI_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
5/16/2024 8:01	53901	HALI_T2	1	1	0	0.8	1.5	0.7	-1.54	-1.47	0	0	0	0	0	0
5/16/2024 8:01	53902	HALI_T2	1	1	0	5.3	5.9	0.6	0	0	0	0	0	0	0	0
5/16/2024 8:04	15204	SFAR_T2	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
5/16/2024 8:05	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/16/2024 8:05	67703	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 8:06	21705	SUBU_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
5/16/2024 8:06	67703	WERN_T2	0	1	1	0	0	0	-0.27	-0.25	0	0	0	0	0	0
5/16/2024 8:06	21703	SUBU_T1	0	0	0	0	0	0	0.8	0.77	0	0	0	0	0	0
5/16/2024 8:07	67703	WERN_T2	0	1	1	0	0	0	-0.27	-0.25	0	0	0	0	0	0
5/16/2024 8:08	67703	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 8:08	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/16/2024 8:09	55102	WERT_T2	0	0	0	0	0	0	-0.64	-0.57	1	1	0	600	600	0
5/16/2024 8:09	15204	SFAR_T2	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
5/16/2024 8:10	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/16/2024 8:10	67703	WERN_T2	0	1	1	0	0	0	-0.25	-0.22	0	0	0	0	0	0
5/16/2024 8:13	51602	DUKE_T2	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
5/16/2024 8:19	66701	STRA_T1	0	0	0	0	0	0	-0.05	-0.02	1	1	0	600	600	0
5/16/2024 8:19	59301	MCAL_T1	0	3	3	0	0.17	0.17	-1.46	-1.48	1	1	0	600	600	0
5/16/2024 8:20	46301	ROHR_T1	293	375	82	0.57	1	0.43	0	0	0	0	0	0	0	0
5/16/2024 8:20	46302	ROHR_T1	131	228	97	0.33	0.68	0.35	0.16	0.16	0	0	0	0	0	0
5/16/2024 8:20	67204	TEHI_T2	0	0	0	0	0	0	-0.49	-0.41	0	0	0	0	0	0
5/16/2024 8:21	50701	SMEC_T1	1	2	1	8	8.6	0.6	-0.92	0.36	0	0	0	0	0	0
5/16/2024 8:22	67204	TEHI_T2	0	0	0	0	0	0	-0.49	-0.41	0	0	0	0	0	0
5/16/2024 8:23	67303	WOM_T2	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
5/16/2024 8:23	50701	SMEC_T1	1	2	1	8	8.6	0.6	0.36	0.34	0	0	0	0	0	0
5/16/2024 8:24	29402	BELT_T1	1	1	0	8.9	8.5	-0.4	0	0	0	0	0	0	0	0
5/16/2024 8:24	29401	BELT_T1	19	0	-19	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/16/2024 8:24	56802	BENV_T2	34	394	360	0.24	0.4	0.16	-1.43	-1.4	0	0	0	0	0	0
5/16/2024 8:25	46001	BERW_T1	0	1	1	0	0	0	0.53	0.58	0	0	0	0	0	0
5/16/2024 8:25	58006	WCAR_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
5/16/2024 8:25	56802	BENV_T2	34	394	360	0.24	0.4	0.16	-2.86	-2.8	0	0	0	0	0	0
5/16/2024 8:26	44301	BEAV_T2	0	1	1	0	0	0	0.59	0.58	1	1	0	900	900	0
5/16/2024 8:26	56802	BENV_T2	34	394	360	0.24	0.4	0.16	-5.72	-5.6	0	0	0	0	0	0
5/16/2024 8:27	46001	BERW_T1	0	1	1	0	0	0	0.53	0.58	0	0	0	0	0	0
5/16/2024 8:29	56802	BENV_T2	34	394	360	0.24	0.4	0.16	-1.43	-1.4	0	0	0	0	0	0
5/16/2024 8:31	20603	GRWO_T2	3	3	0	0.23	0.27	0.04	0	0	0	0	0	0	0	0
5/16/2024 8:31	20601	GRWO_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
5/16/2024 8:31	58401	MORO_T1	0	0	0	0	0	0	-0.93	-0.89	0	0	0	0	0	0
5/16/2024 8:32	55002	NEWP_T1	11	12	1	0.58	0.75	0.17	-0.22	-0.2	0	0	0	0	0	0
5/16/2024 8:33	55002	NEWP_T1	11	12	1	0.58	0.75	0.17	-0.22	-0.2	0	0	0	0	0	0
5/16/2024 8:33	60504	NMAN_T2	3	30	27	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
5/16/2024 8:33	60502	NMAN_T2	9	494	485	0.1	0.31	0.21	-0.24	-0.22	0	0	0	0	0	0
5/16/2024 8:33	60501	NMAN_T2	5	305	300	3.28	0.36	-2.92	0	0	0	0	0	0	0	0
5/16/2024 8:35	60501	NMAN_T2	5	305	300	3.28	0.36	-2.92	0	0	0	0	0	0	0	0
5/16/2024 8:35	60504	NMAN_T2	3	30	27	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
5/16/2024 8:35	60502	NMAN_T2	9	494	485	0.1	0.31	0.21	-0.48	-0.43	0	0	0	0	0	0
5/16/2024 8:35	55002	NEWP_T1	11	12	1	0.58	0.75	0.17	-0.22	-0.2	0	0	0	0	0	0
5/16/2024 8:36	60504	NMAN_T2	3	30	27	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
5/16/2024 8:36	60502	NMAN_T2	9	494	485	0.1	0.31	0.21	-0.24	-0.22	0	0	0	0	0	0
5/16/2024 8:36	55002	NEWP_T1	11	12	1	0.58	0.75	0.17	-0.22	-0.2	0	0	0	0	0	0
5/16/2024 8:36	60501	NMAN_T2	5	305	300	3.28	0.36	-2.92	0	0	0	0	0	0	0	0
5/16/2024 8:37	46301	ROHR_T1	369	360	-9	1	1	0	0	0	0	0	0	0	0	0
5/16/2024 8:37	46302	ROHR_T1	221	212	-9	0.62	0.75	0.13	0.16	0.17	0	0	0	0	0	0
5/16/2024 8:37	58006	WCAR_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
5/16/2024 8:37	58002	WCAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 8:38	61101	BERK_T5	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/16/2024 8:38	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/16/2024 8:38	15703	TANN_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
5/16/2024 8:38	15702	TANN_T2	1	1	0	2.2	1.2	-1	0.47	0.54	0	0	0	0	0	0
5/16/2024 8:39	15703	TANN_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
5/16/2024 8:39	15702	TANN_T2	1	1	0	2.2	1.2	-1	0.54	0.45	0	0	0	0	0	0
5/16/2024 8:39	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/16/2024 8:39	61101	BERK_T5	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/16/2024 8:40	61101	BERK_T5	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/16/2024 8:40	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/16/2024 8:41	60802	BUCK_T2	0	6	6	0	0.25	0.25	0.3	0.29	0	0	0	0	0	0
5/16/2024 8:41	26603	BROO_T1	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
5/16/2024 8:41	29402	BELT_T1	1	1	0	8.5	8.2	-0.3	0	0	0	0	0	0	0	0
5/16/2024 8:44	26603	BROO_T1	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
5/16/2024 8:46	64701	LITI_T1	0	0	0	0	0	0	0.4	0.52	0	0	0	0	0	0
5/16/2024 8:46	46506	LOHA_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
5/16/2024 8:46	46504	LOHA_T1	35	2	-33	0.29	1.3	1.01	0	0	0	0	0	0	0	0
5/16/2024 8:47	46506	LOHA_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
5/16/2024 8:47	55002	NEWP_T1	11	11	0	0.71	0.91	0.2	-0.2	-0.2	0	0	0	0	0	0
5/16/2024 8:47	46504	LOHA_T1	35	2	-33	0.29	1.3	1.01	0	0	0	0	0	0	0	0
5/16/2024 8:47	64701	LITI_T1	0	0	0	0	0	0	0.4	0.52	0	0	0	0	0	0
5/16/2024 8:48	55002	NEWP_T1	11	11	0	0.71	0.91	0.2	-0.2	-0.2	0	0	0	0	0	0
5/16/2024 8:49	55002	NEWP_T1	11	11	0	0.71	0.91	0.2	-0.2	-0.2	0	0	0	0	0	0
5/16/2024 8:50	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 8:50	65207	PRIN_T4	17	0	-17	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/16/2024 8:50	65206	PRIN_T4	17	0	-17	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/16/2024 8:51	67204	TEHI_T2	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
5/16/2024 8:51	58006	WCAR_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
5/16/2024 8:51	55002	NEWP_T1	11	11	0	0.71	0.91	0.2	-0.2	-0.2	0	0	0	0	0	0
5/16/2024 8:52	43801	SWIL_T1	8	18	10	0.71	0.42	-0.29	0	0	0	0	0	0	0	0
5/16/2024 8:52	56501	ROCK_T2	2	2	0	0.95	0.55	-0.4	0	0	0	0	0	0	0	0
5/16/2024 8:52	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.2	1	1	0	600	600	0
5/16/2024 8:52	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 8:54	67204	TEHI_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
5/16/2024 8:58	52402	GRPA_T2	5	12	7	0.36	0.48	0.12	0	0	0	0	0	0	0	0
5/16/2024 8:58	52401	GRPA_T2	1	3	2	0.4	0.53	0.13	0	0	0	0	0	0	0	0
5/16/2024 8:58	52403	GRPA_T2	0	13	13	0	0.34	0.34	0.12	0.16	0	0	0	0	0	0
5/16/2024 9:01	42002	MNVL_T2	1	1	0	4	3.7	-0.3	0	0	0	0	0	0	0	0
5/16/2024 9:01	52402	GRPA_T2	8	12	4	0.6	0.46	-0.14	0	0	0	0	0	0	0	0
5/16/2024 9:01	52401	GRPA_T2	1	3	2	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
5/16/2024 9:01	42001	MNVL_T2	4	34	30	0.25	0.24	-0.01	0.02	0	0	0	0	0	0	0
5/16/2024 9:01	52403	GRPA_T2	10	14	4	0.29	0.35	0.06	0.12	0.16	0	0	0	0	0	0
5/16/2024 9:02	42002	MNVL_T2	1	1	0	4	3.7	-0.3	0	0	0	0	0	0	0	0
5/16/2024 9:02	42001	MNVL_T2	4	34	30	0.25	0.24	-0.01	0.02	0	0	0	0	0	0	0
5/16/2024 9:03	42002	MNVL_T2	1	1	0	4	3.7	-0.3	0	0	0	0	0	0	0	0
5/16/2024 9:03	42001	MNVL_T2	4	34	30	0.25	0.24	-0.01	0.02	0	0	0	0	0	0	0
5/16/2024 9:04	43202	MVIL_T2	155	189	34	1.14	1.17	0.03	-0.53	-0.53	0	0	0	0	0	0
5/16/2024 9:04	43201	MVIL_T2	4	3	-1	0.2	0.53	0.33	0	0	0	0	0	0	0	0
5/16/2024 9:05	57403	SPAN_T1	13	2	-11	0.2	0.2	0	0	0	0	0	0	0	0	0
5/16/2024 9:05	57401	SPAN_T1	2	3	1	0.2	0.13	-0.07	-1.07	-0.99	0	0	0	0	0	0
5/16/2024 9:06	50505	MECH_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/16/2024 9:06	50506	MECH_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
5/16/2024 9:06	57401	SPAN_T1	2	3	1	0.2	0.13	-0.07	-2.14	-1.99	0	0	0	0	0	0
5/16/2024 9:06	65904	SAKR_T2	0	0	0	0	0	0	-1.76	-1.73	1	1	0	600	600	0
5/16/2024 9:06	50502	MECH_T1	1	1	0	2.3	2.1	-0.2	0	0	0	0	0	0	0	0
5/16/2024 9:06	57403	SPAN_T1	13	2	-11	0.2	0.2	0	0	0	0	0	0	0	0	0
5/16/2024 9:06	50501	MECH_T1	4	4	0	1.03	0.8	-0.23	0.45	0.17	0	0	0	0	0	0
5/16/2024 9:06	65901	SAKR_T2	1	1	0	9.2	8.8	-0.4	0	0	0	0	0	0	0	0
5/16/2024 9:07	58003	WCAR_T1	7	4	-3	0.46	0.55	0.09	0.8	0.8	0	0	0	0	0	0
5/16/2024 9:07	57403	SPAN_T1	13	2	-11	0.2	0.2	0	0	0	0	0	0	0	0	0
5/16/2024 9:07	57401	SPAN_T1	2	3	1	0.2	0.13	-0.07	-1.07	-0.99	0	0	0	0	0	0
5/16/2024 9:07	46301	ROHR_T1	356	347	-9	0.97	0.96	-0.01	0	0	0	0	0	0	0	0
5/16/2024 9:07	46302	ROHR_T1	197	199	2	0.77	0.72	-0.05	0.17	0.18	0	0	0	0	0	0
5/16/2024 9:07	58001	WCAR_T1	4	5	1	1.33	0.9	-0.43	0	0	0	0	0	0	0	0
5/16/2024 9:07	67502	WEWI_T2	5	3	-2	0.34	0.53	0.19	0	0	0	0	0	0	0	0
5/16/2024 9:07	67503	WEWI_T2	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
5/16/2024 9:08	22003	BOHE_T1	1	32	31	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
5/16/2024 9:08	67503	WEWI_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
5/16/2024 9:08	57403	SPAN_T1	13	2	-11	0.2	0.2	0	0	0	0	0	0	0	0	0
5/16/2024 9:08	57401	SPAN_T1	2	3	1	0.2	0.13	-0.07	-0.99	-1.06	0	0	0	0	0	0
5/16/2024 9:08	67502	WEWI_T2	5	3	-2	0.34	0.53	0.19	0	0	0	0	0	0	0	0
5/16/2024 9:10	40802	EXCH_T2	5	24	19	0.3	0.16	-0.14	-1.18	-0.72	0	0	0	0	0	0
5/16/2024 9:10	40801	EXCH_T2	4	5	1	0.13	0.16	0.03	0	0	0	0	0	0	0	0
5/16/2024 9:12	60802	BUCK_T2	6	8	2	0.25	0.19	-0.06	0.31	0.34	0	0	0	0	0	0
5/16/2024 9:12	29402	BELT_T1	1	1	0	8.2	8.5	0.3	0	0	0	0	0	0	0	0
5/16/2024 9:12	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 9:12	44301	BEAV_T2	0	3	3	0	0.25	0.25	0.11	0.74	1	1	0	900	900	0
5/16/2024 9:12	40802	EXCH_T2	5	24	19	0.3	0.16	-0.14	0	0	0	0	0	0	0	0
5/16/2024 9:12	40801	EXCH_T2	4	5	1	0.13	0.16	0.03	-0.48	-0.49	1	1	0	1200	1200	0
5/16/2024 9:13	24105	EHAZ_T1	4	4	0	5.85	5.33	-0.52	0	0	0	0	0	0	0	0
5/16/2024 9:13	24102	EHAZ_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 9:13	40801	EXCH_T2	4	5	1	0.13	0.16	0.03	0	0	0	0	0	0	0	0
5/16/2024 9:13	24101	EHAZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/16/2024 9:13	24104	EHAZ_T1	0	2	2	0	0.25	0.25	-0.93	-0.93	0	0	0	0	0	0
5/16/2024 9:13	40802	EXCH_T2	5	24	19	0.3	0.16	-0.14	-1.77	-1.08	0	0	0	0	0	0
5/16/2024 9:17	41902	REED_T1	0	0	0	0	0	0	1.21	1.46	0	0	0	0	0	0
5/16/2024 9:19	29402	BELT_T1	1	1	0	8.5	8.1	-0.4	0	0	0	0	0	0	0	0
5/16/2024 9:19	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 9:19	64902	MILL_T2	0	0	0	0	0	0	-0.56	-0.64	1	1	0	900	900	0
5/16/2024 9:21	67605	WARW_T1	25	20	-5	0.48	0.62	0.14	-1.03	-1.03	0	0	0	0	0	0
5/16/2024 9:21	67603	WARW_T1	1	1	0	0.3	0.2	-0.1	-0.03	0	0	0	0	0	0	0
5/16/2024 9:22	67605	WARW_T1	25	20	-5	0.48	0.62	0.14	-2.06	-2.06	0	0	0	0	0	0
5/16/2024 9:22	67603	WARW_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/16/2024 9:22	41902	REED_T1	0	0	0	0	0	0	1.21	1.46	0	0	0	0	0	0
5/16/2024 9:22	64902	MILL_T2	0	0	0	0	0	0	-0.56	-0.64	1	1	0	900	900	0
5/16/2024 9:23	66703	STRA_T1	2	2	0	0.5	0.55	0.05	-0.19	-0.16	0	0	0	0	0	0
5/16/2024 9:23	58003	WCAR_T1	4	3	-1	0.55	0.63	0.08	0.81	0.84	0	0	0	0	0	0
5/16/2024 9:23	66701	STRA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 9:23	67603	WARW_T1	1	1	0	0.3	0.2	-0.1	0	0.06	0	0	0	0	0	0
5/16/2024 9:23	67605	WARW_T1	25	20	-5	0.48	0.62	0.14	0	0	0	0	0	0	0	0
5/16/2024 9:23	43301	WATS_T2	1	1	0	0.4	0.6	0.2	0	0	1	1	0	900	900	0
5/16/2024 9:23	58001	WCAR_T1	4	5	1	1.08	0.88	-0.2	0	0	0	0	0	0	0	0
5/16/2024 9:23	66702	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 9:24	46001	BERW_T1	0	0	0	0	0	0	0.84	0.84	0	0	0	0	0	0
5/16/2024 9:24	46005	BERW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 9:24	67603	WARW_T1	1	1	0	0.3	0.2	-0.1	0	0.03	0	0	0	0	0	0
5/16/2024 9:24	67605	WARW_T1	25	20	-5	0.48	0.62	0.14	0	0	0	0	0	0	0	0
5/16/2024 9:25	67603	WARW_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/16/2024 9:25	67605	WARW_T1	25	20	-5	0.48	0.62	0.14	-1.03	-1.02	0	0	0	0	0	0
5/16/2024 9:25	49804	UNIV_T1	0	0	0	0	0	0	1.3	1.31	0	0	0	0	0	0
5/16/2024 9:26	67603	WARW_T1	1	1	0	0.3	0.2	-0.1	0	0.03	0	0	0	0	0	0
5/16/2024 9:26	67605	WARW_T1	25	20	-5	0.48	0.62	0.14	0	0	0	0	0	0	0	0
5/16/2024 9:28	41502	FAIR_T2	0	0	0	0	0	0	-0.67	-0.71	0	0	0	0	0	0
5/16/2024 9:29	61102	BERK_T5	0	0	0	0	0	0	0.44	0.43	0	1	1	0	300	300
5/16/2024 9:31	27101	GFLD_T2	0	0	0	0	0	0	-0.66	-0.76	0	0	0	0	0	0
5/16/2024 9:34	56501	ROCK_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
5/16/2024 9:34	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 9:36	45902	AUBU_T1	0	0	0	0	0	0	-0.47	-0.46	1	1	0	600	600	0
5/16/2024 9:37	13901	SEID_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	1200	1200	0
5/16/2024 9:37	67201	TEHI_T1	0	0	0	0	0	0	0.21	0.28	2	2	0	1500	1500	0
5/16/2024 9:37	67002	STHI_T2	0	0	0	0	0	0	0.7	0.72	0	0	0	0	0	0
5/16/2024 9:37	67703	WERN_T2	0	0	0	0	0	0	-0.18	-0.21	0	1	1	0	900	900
5/16/2024 9:38	48302	ORWI_T2	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
5/16/2024 9:38	45902	AUBU_T1	0	0	0	0	0	0	-1.84	-1.5	4	4	0	2400	2400	0
5/16/2024 9:38	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 9:38	43301	WATS_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
5/16/2024 9:40	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 9:40	29402	BELT_T1	1	1	0	8.1	8.1	0	0	0	0	0	0	0	0	0
5/16/2024 9:41	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.37	1	1	0	600	600	0
5/16/2024 9:44	46803	HEPB_T2	3	23	20	0.27	0.3	0.03	0.48	0.48	0	0	0	0	0	0
5/16/2024 9:44	46801	HEPB_T2	3	36	33	0.83	0.3	-0.53	0.67	0.68	0	0	0	0	0	0
5/16/2024 9:44	43704	WILL_T1	1	1	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
5/16/2024 9:44	43705	WILL_T1	2	2	0	1.1	1.35	0.25	0	0	0	0	0	0	0	0
5/16/2024 9:44	43701	WILL_T1	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
5/16/2024 9:45	46801	HEPB_T2	36	30	-6	0.3	0.25	-0.05	1.34	1.36	0	0	0	0	0	0
5/16/2024 9:45	46803	HEPB_T2	23	11	-12	0.27	0.46	0.19	0	0	0	0	0	0	0	0
5/16/2024 9:45	46802	HEPB_T1	1	2	1	1.1	0.65	-0.45	-0.27	-0.29	0	0	0	0	0	0
5/16/2024 9:46	46801	HEPB_T2	36	30	-6	0.3	0.25	-0.05	0.67	0.68	0	0	0	0	0	0
5/16/2024 9:46	46803	HEPB_T2	23	11	-12	0.27	0.46	0.19	0	0	0	0	0	0	0	0
5/16/2024 9:48	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
5/16/2024 9:48	46504	LOHA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/16/2024 9:48	46506	LOHA_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/16/2024 9:49	56504	ROCK_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/16/2024 9:49	56501	ROCK_T2	2	4	2	0.5	0.57	0.07	-0.01	-0.01	0	0	0	0	0	0
5/16/2024 9:50	47403	PENS_T1	3	1	-2	0.93	1.7	0.77	0	0	0	0	0	0	0	0
5/16/2024 9:50	47401	PENS_T1	3	3	0	0.93	0.8	-0.13	1.06	1	0	0	0	0	0	0
5/16/2024 9:50	47402	PENS_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
5/16/2024 9:52	56504	ROCK_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/16/2024 9:52	56501	ROCK_T2	2	4	2	0.5	0.57	0.07	-0.01	-0.01	0	0	0	0	0	0
5/16/2024 9:57	52401	GRPA_T2	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/16/2024 9:57	52403	GRPA_T2	3	12	9	0.3	0.33	0.03	0.15	0.19	0	0	0	0	0	0
5/16/2024 9:57	52402	GRPA_T2	11	12	1	0.47	0.53	0.06	0	0	0	0	0	0	0	0
5/16/2024 9:59	52401	GRPA_T2	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/16/2024 9:59	52403	GRPA_T2	3	12	9	0.3	0.33	0.03	0	0	0	0	0	0	0	0
5/16/2024 9:59	52402	GRPA_T2	11	12	1	0.47	0.53	0.06	-0.83	-0.83	0	0	0	0	0	0
5/16/2024 10:00	53903	HALI_T2	11	11	0	0.77	0.76	-0.01	0	0	0	0	0	0	0	0
5/16/2024 10:00	53902	HALI_T2	3	3	0	2.6	2.73	0.13	0	0	0	0	0	0	0	0
5/16/2024 10:00	46602	LACR_T1	2	1	-1	0.7	1.3	0.6	-0.86	-0.86	0	0	0	0	0	0
5/16/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-0.4	-0.43	1	1	0	900	900	0
5/16/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
5/16/2024 10:00	24701	FLND_T2	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
5/16/2024 10:00	67603	WARW_T1	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/16/2024 10:00	57205	ROSS_T1	4	3	-1	0.65	1.2	0.55	-0.79	-0.71	1	1	0	900	900	0
5/16/2024 10:00	13901	SEID_T1	0	0	0	0	0	0	-0.98	0.18	1	0	-1	1200	0	-1200
5/16/2024 10:00	67605	WARW_T1	15	24	9	0.7	0.58	-0.12	-1.03	-1.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/16/2024 10:00	58003	WCAR_T1	5	6	1	0.52	0.48	-0.04	0	0	0	0	0	0	0	0
5/16/2024 10:00	67402	WAKE_T2	0	0	0	0	0	0	0.31	0.33	1	1	0	600	600	0
5/16/2024 10:00	57401	SPAN_T1	3	6	3	0.3	0.55	0.25	-1.01	-1.15	1	1	0	600	600	0
5/16/2024 10:00	47401	PENS_T1	3	2	-1	0.8	1	0.2	1	1.04	0	0	0	0	0	0
5/16/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-1.8	-1.71	3	3	0	2700	2700	0
5/16/2024 10:00	58001	WCAR_T1	5	5	0	0.6	0.98	0.38	0.83	0.79	0	0	0	0	0	0
5/16/2024 10:00	57403	SPAN_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/16/2024 10:00	67703	WERN_T2	0	0	0	0	0	0	-0.34	-0.4	2	2	0	1800	1800	0
5/16/2024 10:00	53901	HALI_T2	4	4	0	0.63	0.5	-0.13	-1.41	-1.42	0	0	0	0	0	0
5/16/2024 10:00	40505	CRES_T1	3	3	0	4.4	4.3	-0.1	0.32	0.34	0	0	0	0	0	0
5/16/2024 10:00	47402	PENS_T1	1	2	1	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
5/16/2024 10:00	47403	PENS_T1	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
5/16/2024 10:00	57203	ROSS_T1	0	1	1	0	0.4	0.4	-0.3	-0.29	0	0	0	0	0	0
5/16/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	3.07	3.06	0	0	0	0	0	0
5/16/2024 10:00	67502	WEWI_T2	4	3	-1	0.68	0.73	0.05	0	0	0	0	0	0	0	0
5/16/2024 10:00	67401	WAKE_T2	4	3	-1	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
5/16/2024 10:01	52403	GRPA_T2	4	12	8	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
5/16/2024 10:01	52402	GRPA_T2	11	11	0	0.4	0.55	0.15	-0.83	-0.83	0	0	0	0	0	0
5/16/2024 10:01	52401	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/16/2024 10:02	46602	LACR_T1	2	1	-1	0.7	1.3	0.6	-0.43	-0.43	0	0	0	0	0	0
5/16/2024 10:04	42001	MNVL_T2	42	7	-35	0.2	0.31	0.11	0.04	0.05	0	0	0	0	0	0
5/16/2024 10:04	42002	MNVL_T2	1	1	0	3.9	4.6	0.7	0	0	0	0	0	0	0	0
5/16/2024 10:05	42001	MNVL_T2	42	7	-35	0.2	0.31	0.11	0	0	0	0	0	0	0	0
5/16/2024 10:05	43201	MVIL_T2	4	5	1	0.25	0.34	0.09	-0.3	-0.34	0	0	0	0	0	0
5/16/2024 10:05	42002	MNVL_T2	1	1	0	3.9	4.6	0.7	0.08	0.21	0	0	0	0	0	0
5/16/2024 10:05	43202	MVIL_T2	132	184	52	1.35	1.03	-0.32	0	0	0	0	0	0	0	0
5/16/2024 10:06	67604	WARW_T1	0	0	0	0	0	0	0.21	0.26	0	0	0	0	0	0
5/16/2024 10:06	67603	WARW_T1	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/16/2024 10:06	67605	WARW_T1	15	24	9	0.7	0.58	-0.12	0	0	0	0	0	0	0	0
5/16/2024 10:07	43202	MVIL_T2	132	184	52	1.35	1.03	-0.32	-0.54	-0.53	0	0	0	0	0	0
5/16/2024 10:07	43201	MVIL_T2	4	5	1	0.25	0.34	0.09	0	0	0	0	0	0	0	0
5/16/2024 10:08	67605	WARW_T1	15	24	9	0.7	0.58	-0.12	-1.01	-1.01	0	0	0	0	0	0
5/16/2024 10:08	67401	WAKE_T2	4	3	-1	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
5/16/2024 10:08	67603	WARW_T1	2	1	-1	0.2	0.3	0.1	0.06	0.02	0	0	0	0	0	0
5/16/2024 10:08	67402	WAKE_T2	0	0	0	0	0	0	0.33	0.3	1	1	0	600	600	0
5/16/2024 10:09	67603	WARW_T1	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/16/2024 10:09	67401	WAKE_T2	4	3	-1	0.4	0.27	-0.13	-0.66	-0.72	0	0	0	0	0	0
5/16/2024 10:09	67605	WARW_T1	15	24	9	0.7	0.58	-0.12	-1.01	-1.01	0	0	0	0	0	0
5/16/2024 10:09	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 10:09	29402	BELT_T1	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
5/16/2024 10:10	67604	WARW_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
5/16/2024 10:10	43301	WATS_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
5/16/2024 10:10	67603	WARW_T1	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/16/2024 10:10	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 10:10	67605	WARW_T1	15	24	9	0.7	0.58	-0.12	-2.02	-2.02	0	0	0	0	0	0
5/16/2024 10:11	29402	BELT_T1	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
5/16/2024 10:11	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 10:11	43301	WATS_T2	1	1	0	0.1	0.6	0.5	0	0	1	1	0	900	900	0
5/16/2024 10:11	44301	BEAV_T2	0	1	1	0	1.7	1.7	0.91	0.79	2	2	0	1500	1500	0
5/16/2024 10:11	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 10:12	44301	BEAV_T2	0	1	1	0	1.7	1.7	0.91	0.79	2	2	0	1500	1500	0
5/16/2024 10:13	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 10:13	62607	ENGL_T1	3	1	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/16/2024 10:13	62601	ENGL_T1	0	1	1	0	0	0	-0.04	-0.12	0	0	0	0	0	0
5/16/2024 10:13	62605	ENGL_T1	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
5/16/2024 10:13	29402	BELT_T1	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
5/16/2024 10:14	62607	ENGL_T1	3	1	-2	0.2	0	-0.2	-0.77	-0.78	0	0	0	0	0	0
5/16/2024 10:14	45501	DERR_T2	2	3	1	0.55	0.43	-0.12	0.81	0.83	2	2	0	1800	1800	0
5/16/2024 10:14	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 10:14	29402	BELT_T1	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
5/16/2024 10:14	62605	ENGL_T1	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
5/16/2024 10:16	45501	DERR_T2	3	13	10	0.37	0.47	0.1	1.62	1.66	4	4	0	3600	3600	0
5/16/2024 10:16	41801	GOCI_T2	12	72	60	0.31	0.28	-0.03	0	0	0	0	0	0	0	0
5/16/2024 10:16	58401	MORO_T1	1	0	-1	0.2	0	-0.2	-1.48	-1.46	2	2	0	1200	1200	0
5/16/2024 10:16	17804	GILB_T2	2	1	-1	0.3	0.4	0.1	-0.59	-0.6	0	0	0	0	0	0
5/16/2024 10:17	13503	MCMI_T2	5	1	-4	0.26	0.4	0.14	-0.01	-0.04	0	0	0	0	0	0
5/16/2024 10:17	64701	LITI_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
5/16/2024 10:18	55002	NEWP_T1	12	13	1	0.77	0.64	-0.13	-0.17	-0.19	0	0	0	0	0	0
5/16/2024 10:19	42902	MIDD_T2	6	9	3	0.45	0.43	-0.02	-2.91	-2.85	3	3	0	1800	1800	0
5/16/2024 10:20	64101	REFR_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
5/16/2024 10:20	42002	MNVL_T2	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0	0
5/16/2024 10:20	42001	MNVL_T2	6	5	-1	0.27	0.32	0.05	0.05	0.07	0	0	0	0	0	0
5/16/2024 10:21	42002	MNVL_T2	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0	0
5/16/2024 10:21	55002	NEWP_T1	12	13	1	0.77	0.64	-0.13	-0.17	-0.19	0	0	0	0	0	0
5/16/2024 10:21	58001	WCAR_T1	5	6	1	0.9	0.83	-0.07	0	0	0	0	0	0	0	0
5/16/2024 10:21	58003	WCAR_T1	5	6	1	0.48	0.5	0.02	1.82	1.74	0	0	0	0	0	0
5/16/2024 10:21	56501	ROCK_T2	3	3	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
5/16/2024 10:21	56504	ROCK_T2	2	3	1	0.4	0.63	0.23	0	0	0	0	0	0	0	0
5/16/2024 10:21	42001	MNVL_T2	6	5	-1	0.27	0.32	0.05	0.05	0.07	0	0	0	0	0	0
5/16/2024 10:22	64101	REFR_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
5/16/2024 10:22	55002	NEWP_T1	12	13	1	0.77	0.64	-0.13	-0.17	-0.19	0	0	0	0	0	0
5/16/2024 10:23	46004	BERW_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
5/16/2024 10:25	51109	CARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/16/2024 10:25	51102	CARL_T1	5	5	0	0.3	0.38	0.08	0	0	0	0	0	0	0	0
5/16/2024 10:25	51101	CARL_T1	0	1	1	0	0.2	0.2	-0.93	-0.85	1	1	0	600	600	0
5/16/2024 10:25	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 10:25	29402	BELT_T1	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
5/16/2024 10:27	42001	MNVL_T2	6	5	-1	0.27	0.32	0.05	0.07	0.06	0	0	0	0	0	0
5/16/2024 10:27	29402	BELT_T1	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
5/16/2024 10:27	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 10:27	42002	MNVL_T2	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0	0
5/16/2024 10:31	41002	LAUR_T2	47	38	-9	0.3	0.25	-0.05	0.05	0.05	0	0	0	0	0	0
5/16/2024 10:31	41001	LAUR_T2	80	77	-3	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
5/16/2024 10:33	59003	MIFF_T1	0	0	0	0	0	0	-0.24	-0.29	0	0	0	0	0	0
5/16/2024 10:33	59001	MIFF_T1	1	2	1	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
5/16/2024 10:33	59002	MIFF_T1	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
5/16/2024 10:36	59102	WALK_T2	3	2	-1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/16/2024 10:36	59101	WALK_T2	0	0	0	0	0	0	3.47	3.45	0	0	0	0	0	0
5/16/2024 10:36	67204	TEHI_T2	0	0	0	0	0	0	-0.46	-0.43	0	0	0	0	0	0
5/16/2024 10:36	66701	STRA_T1	0	0	0	0	0	0	0.02	0.02	1	1	0	600	600	0
5/16/2024 10:37	45602	WOOL_T1	4	5	1	0.53	0.56	0.03	0.56	0.57	0	0	0	0	0	0
5/16/2024 10:38	10801	CHHI_T1	0	6	6	0	0.77	0.77	-0.77	-0.79	1	1	0	900	900	0
5/16/2024 10:38	45602	WOOL_T1	4	5	1	0.53	0.56	0.03	0.56	0.57	0	0	0	0	0	0
5/16/2024 10:38	58006	WCAR_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
5/16/2024 10:39	67204	TEHI_T2	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
5/16/2024 10:39	45602	WOOL_T1	4	5	1	0.53	0.56	0.03	0.57	0.57	0	0	0	0	0	0
5/16/2024 10:41	40802	EXCH_T2	1	12	11	0.8	0.18	-0.62	-0.45	-0.38	0	0	0	0	0	0
5/16/2024 10:41	59101	WALK_T2	0	0	0	0	0	0	1.72	1.98	0	0	0	0	0	0
5/16/2024 10:41	40801	EXCH_T2	0	3	3	0	0.23	0.23	-0.39	-0.38	1	1	0	1200	1200	0
5/16/2024 10:41	59102	WALK_T2	3	2	-1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/16/2024 10:41	43301	WATS_T2	1	1	0	0.3	0.6	0.3	0	0	1	1	0	900	900	0
5/16/2024 10:42	44301	BEAV_T2	1	1	0	1.7	0.9	-0.8	0.86	0.76	2	2	0	1500	1500	0
5/16/2024 10:43	52401	GRPA_T2	1	3	2	0.3	0.37	0.07	0	0	0	0	0	0	0	0
5/16/2024 10:43	40801	EXCH_T2	0	3	3	0	0.23	0.23	-0.39	-0.38	1	1	0	1200	1200	0
5/16/2024 10:43	40802	EXCH_T2	1	12	11	0.8	0.18	-0.62	-1.34	-1.14	0	0	0	0	0	0
5/16/2024 10:43	52403	GRPA_T2	6	16	10	0.35	0.35	0	0.14	0.21	0	0	0	0	0	0
5/16/2024 10:43	46801	HEPB_T2	2	2	0	0.9	1.1	0.2	0.68	0.69	0	0	0	0	0	0
5/16/2024 10:43	52402	GRPA_T2	7	8	1	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
5/16/2024 10:43	44301	BEAV_T2	1	1	0	1.7	0.9	-0.8	0.86	0.76	2	2	0	1500	1500	0
5/16/2024 10:43	46803	HEPB_T2	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/16/2024 10:44	52402	GRPA_T2	7	8	1	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
5/16/2024 10:44	52403	GRPA_T2	6	16	10	0.35	0.35	0	0.14	0.21	0	0	0	0	0	0
5/16/2024 10:44	52401	GRPA_T2	1	3	2	0.3	0.37	0.07	0	0	0	0	0	0	0	0
5/16/2024 10:45	40801	EXCH_T2	3	3	0	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
5/16/2024 10:45	40802	EXCH_T2	12	5	-7	0.18	0.26	0.08	-0.45	-0.38	0	0	0	0	0	0
5/16/2024 10:46	52402	GRPA_T2	8	10	2	0.45	0.31	-0.14	0	0	0	0	0	0	0	0
5/16/2024 10:46	52403	GRPA_T2	12	9	-3	0.33	0.62	0.29	0.14	0.21	0	0	0	0	0	0
5/16/2024 10:46	52401	GRPA_T2	3	1	-2	0.37	0	-0.37	-0.61	-0.61	0	0	0	0	0	0
5/16/2024 10:47	52403	GRPA_T2	12	9	-3	0.33	0.62	0.29	0.14	0.21	0	0	0	0	0	0
5/16/2024 10:47	46801	HEPB_T2	2	2	0	0.8	1.15	0.35	0	0	0	0	0	0	0	0
5/16/2024 10:47	52402	GRPA_T2	8	10	2	0.45	0.31	-0.14	0	0	0	0	0	0	0	0
5/16/2024 10:47	52401	GRPA_T2	3	1	-2	0.37	0	-0.37	0	0	0	0	0	0	0	0
5/16/2024 10:47	46803	HEPB_T2	2	1	-1	0.55	1.1	0.55	0.46	0.47	0	0	0	0	0	0
5/16/2024 10:52	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 10:52	40303	TAMA_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/16/2024 10:52	40302	TAMA_T3	0	2	2	0	0.2	0.2	0.1	0.09	0	0	0	0	0	0
5/16/2024 10:53	10805	CHHI_T2	2	9	7	4.7	9.1	4.4	-0.44	-0.39	1	1	0	600	600	0
5/16/2024 10:53	14802	TREI_T2	0	0	0	0	0	0	0.35	0.38	0	0	0	0	0	0
5/16/2024 10:53	14801	TREI_T2	0	4	4	0	0.37	0.37	0	0	0	0	0	0	0	0
5/16/2024 10:54	55101	WERT_T1	0	0	0	0	0	0	-0.82	-0.76	2	2	0	1500	1500	0
5/16/2024 10:55	14801	TREI_T2	0	4	4	0	0.37	0.37	0.4	0.37	0	0	0	0	0	0
5/16/2024 10:56	26603	BROO_T1	0	1	1	0	0	0	0.04	0.02	0	0	0	0	0	0
5/16/2024 10:56	20603	GRWO_T2	0	1	1	0	0.1	0.1	0.35	0.35	0	0	0	0	0	0
5/16/2024 10:57	29402	BELT_T1	1	1	0	8.3	8.4	0.1	0	0	0	0	0	0	0	0
5/16/2024 10:58	26603	BROO_T1	0	1	1	0	0	0	0.04	0.02	0	0	0	0	0	0
5/16/2024 10:58	45502	DERR_T2	0	0	0	0	0	0	0.24	0.16	1	1	0	300	300	0
5/16/2024 10:58	60902	DONG_T2	0	0	0	0	0	0	1.17	1.08	0	0	0	0	0	0
5/16/2024 10:58	60901	DONG_T2	2	3	1	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
5/16/2024 10:58	45501	DERR_T2	3	2	-1	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
5/16/2024 10:59	20603	GRWO_T2	0	1	1	0	0.1	0.1	0.35	0.35	0	0	0	0	0	0
5/16/2024 11:00	41801	GOCI_T2	34	31	-3	0.25	0.31	0.06	0	0	0	0	0	0	0	0
5/16/2024 11:00	52401	GRPA_T2	0	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0
5/16/2024 11:00	52403	GRPA_T2	9	5	-4	0.52	0.62	0.1	0.21	0.24	0	0	0	0	0	0
5/16/2024 11:00	56501	ROCK_T2	2	3	1	0.25	0.33	0.08	-0.01	-0.01	0	0	0	0	0	0
5/16/2024 11:00	52402	GRPA_T2	7	34	27	0.71	0.36	-0.35	0	0	0	0	0	0	0	0
5/16/2024 11:02	58401	MORO_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/16/2024 11:02	58402	MORO_T1	0	0	0	0	0	0	-0.17	-0.24	4	4	0	3000	3000	0
5/16/2024 11:03	64701	LITI_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
5/16/2024 11:03	56501	ROCK_T2	2	3	1	0.25	0.33	0.08	-0.02	-0.02	0	0	0	0	0	0
5/16/2024 11:05	58401	MORO_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/16/2024 11:05	58402	MORO_T1	0	0	0	0	0	0	-0.09	-0.12	2	2	0	1500	1500	0
5/16/2024 11:06	10805	CHHI_T2	5	5	0	2.1	8.7	6.6	-0.39	-0.94	1	1	0	600	600	0
5/16/2024 11:07	20401	ASHF_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/16/2024 11:07	20403	ASHF_T2	2	5	3	0.2	0.38	0.18	1.6	1.59	0	0	0	0	0	0
5/16/2024 11:08	14404	SSLA_T1	2	2	0	2.9	2.9	0	0.02	0.03	0	0	0	0	0	0
5/16/2024 11:08	14401	SSLA_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/16/2024 11:09	46002	BERW_T2	0	0	0	0	0	0	-0.42	-0.4	1	1	0	900	900	0
5/16/2024 11:09	58006	WCAR_T2	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
5/16/2024 11:09	14404	SSLA_T1	2	2	0	2.9	2.9	0	0.03	0.04	0	0	0	0	0	0
5/16/2024 11:09	14401	SSLA_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/16/2024 11:10	14802	TREI_T2	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
5/16/2024 11:10	14801	TREI_T2	3	2	-1	0.37	2.05	1.68	0	0	0	0	0	0	0	0
5/16/2024 11:11	46002	BERW_T2	0	0	0	0	0	0	-0.42	-0.4	1	1	0	900	900	0
5/16/2024 11:11	58006	WCAR_T2	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
5/16/2024 11:12	20401	ASHF_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/16/2024 11:12	20403	ASHF_T2	2	5	3	0.2	0.38	0.18	1.59	1.55	0	0	0	0	0	0
5/16/2024 11:13	20403	ASHF_T2	2	5	3	0.2	0.38	0.18	0	0	0	0	0	0	0	0
5/16/2024 11:13	20401	ASHF_T2	0	2	2	0	0.25	0.25	-0.19	-0.15	0	0	0	0	0	0
5/16/2024 11:17	64904	MILL_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
5/16/2024 11:17	40101	HUNT_T2	3	1	-2	0.2	0.5	0.3	-0.14	-0.17	0	0	0	0	0	0
5/16/2024 11:17	64702	LITI_T2	0	0	0	0	0	0	-0.45	-0.41	0	0	0	0	0	0
5/16/2024 11:18	64702	LITI_T2	0	0	0	0	0	0	-0.45	-0.41	0	0	0	0	0	0
5/16/2024 11:18	40101	HUNT_T2	3	1	-2	0.2	0.5	0.3	-0.14	-0.17	0	0	0	0	0	0
5/16/2024 11:18	64904	MILL_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
5/16/2024 11:19	57304	MOAL_T2	8	1	-7	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
5/16/2024 11:19	64702	LITI_T2	0	0	0	0	0	0	-0.45	-0.41	0	0	0	0	0	0
5/16/2024 11:19	57303	MOAL_T2	1	1	0	7.1	7.7	0.6	0	0	0	0	0	0	0	0
5/16/2024 11:19	58401	MORO_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/16/2024 11:19	57306	MOAL_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/16/2024 11:19	58402	MORO_T1	0	0	0	0	0	0	-0.12	-0.11	2	2	0	1500	1500	0
5/16/2024 11:19	64401	SALE_T2	0	0	0	0	0	0	2.3	2.65	2	2	0	1200	1200	0
5/16/2024 11:19	57302	MOAL_T2	0	0	0	0	0	0	-1.49	-1.51	1	1	0	1200	1200	0
5/16/2024 11:20	42902	MIDD_T2	16	8	-8	0.56	0.55	-0.01	-0.86	-0.82	1	1	0	600	600	0
5/16/2024 11:20	42903	MIDD_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
5/16/2024 11:20	54602	SUMM_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
5/16/2024 11:20	54601	SUMM_T2	10	5	-5	0.42	0.2	-0.22	-1.67	-1.63	2	2	0	2100	2100	0
5/16/2024 11:20	10805	OHHI_T2	5	1	-4	1.9	8.7	6.8	-0.94	-0.94	1	1	0	600	600	0
5/16/2024 11:20	59301	MCAL_T1	3	4	1	0.13	0.35	0.22	0	0	0	0	0	0	0	0
5/16/2024 11:20	59302	MCAL_T1	2	1	-1	0.6	0	-0.6	-0.1	0.01	1	1	0	600	600	0
5/16/2024 11:21	42201	SHEN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/16/2024 11:21	58101	NEKI_T1	3	3	0	0.3	0.47	0.17	0	0	0	0	0	0	0	0
5/16/2024 11:21	58102	NEKI_T1	3	2	-1	0.73	1.05	0.32	-0.47	-0.59	1	1	0	1200	1200	0
5/16/2024 11:21	42204	SHEN_T2	0	0	0	0	0	0	0.02	0.14	1	1	0	1200	1200	0
5/16/2024 11:22	57403	SPAN_T1	5	5	0	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
5/16/2024 11:22	57401	SPAN_T1	9	7	-2	0.43	0.47	0.04	-1.05	-0.93	1	1	0	600	600	0
5/16/2024 11:23	58002	WCAR_T2	1	1	0	9.1	1.3	-7.8	0	0	0	0	0	0	0	0
5/16/2024 11:23	58006	WCAR_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
5/16/2024 11:23	57401	SPAN_T1	9	7	-2	0.43	0.47	0.04	0	0	0	0	0	0	0	0
5/16/2024 11:23	58001	WCAR_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
5/16/2024 11:23	58003	WCAR_T1	1	1	0	1	0.9	-0.1	0.9	0.9	0	0	0	0	0	0
5/16/2024 11:23	42201	SHEN_T2	0	1	1	0	0.3	0.3	0.42	0.41	0	0	0	0	0	0
5/16/2024 11:23	57403	SPAN_T1	5	5	0	0.36	0.34	-0.02	0.03	-0.01	0	0	0	0	0	0
5/16/2024 11:24	57403	SPAN_T1	5	5	0	0.36	0.34	-0.02	0.03	-0.01	0	0	0	0	0	0
5/16/2024 11:24	57401	SPAN_T1	9	7	-2	0.43	0.47	0.04	0	0	0	0	0	0	0	0
5/16/2024 11:24	45602	WOOL_T1	8	7	-1	0.56	0.59	0.03	1.12	1.12	0	0	0	0	0	0
5/16/2024 11:25	58001	WCAR_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
5/16/2024 11:25	58003	WCAR_T1	1	1	0	1	0.9	-0.1	0.9	0.9	0	0	0	0	0	0
5/16/2024 11:25	14801	TREI_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
5/16/2024 11:25	14802	TREI_T2	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
5/16/2024 11:26	45602	WOOL_T1	8	7	-1	0.56	0.59	0.03	0.56	0.56	0	0	0	0	0	0
5/16/2024 11:27	29402	BELT_T1	1	1	0	7.9	8.3	0.4	0	0	0	0	0	0	0	0
5/16/2024 11:28	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 11:28	51108	CARL_T1	0	0	0	0	0	0	-0.03	0.01	1	1	0	600	600	0
5/16/2024 11:28	51102	CARL_T1	3	1	-2	0.13	0.2	0.07	0	0	0	0	0	0	0	0
5/16/2024 11:28	45501	DERR_T2	2	3	1	0.45	0.57	0.12	1.09	1.04	2	2	0	1800	1800	0
5/16/2024 11:29	46803	HEPB_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/16/2024 11:29	46801	HEPB_T2	2	2	0	1.15	1.15	0	0.71	0.72	0	0	0	0	0	0
5/16/2024 11:30	46802	HEPB_T1	1	1	0	0.8	0.7	-0.1	-0.25	-0.19	0	0	0	0	0	0
5/16/2024 11:30	46801	HEPB_T2	2	2	0	1.15	1.15	0	0.71	0.72	0	0	0	0	0	0
5/16/2024 11:30	42201	SHEN_T2	0	1	1	0	0.3	0.3	0.42	0.41	0	0	0	0	0	0
5/16/2024 11:30	46803	HEPB_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/16/2024 11:31	46801	HEPB_T2	2	2	0	1.15	1.15	0	0.71	0.72	0	0	0	0	0	0
5/16/2024 11:31	46803	HEPB_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/16/2024 11:33	65904	SAKR_T2	0	0	0	0	0	0	-1.7	-1.66	3	3	0	1500	1500	0
5/16/2024 11:33	52502	PROG_T2	3	0	-3	0.37	0	-0.37	-1.13	0.78	2	0	-2	1800	0	-1800
5/16/2024 11:33	57303	MOAL_T2	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
5/16/2024 11:33	57306	MOAL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/16/2024 11:33	57304	MOAL_T2	1	1	0	0.1	0.6	0.5	-0.56	-0.42	0	0	0	0	0	0
5/16/2024 11:33	65901	SAKR_T2	1	1	0	8.3	8.8	0.5	0	0	0	0	0	0	0	0
5/16/2024 11:34	52502	PROG_T2	3	0	-3	0.37	0	-0.37	-1.13	0.78	2	0	-2	1800	0	-1800
5/16/2024 11:34	58401	MORO_T1	0	1	1	0	0.2	0.2	-0.69	-0.67	1	1	0	600	600	0
5/16/2024 11:35	13704	SOHN_T2	0	3	3	0	0.2	0.2	-0.27	-0.29	0	0	0	0	0	0
5/16/2024 11:35	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
5/16/2024 11:35	42903	MIDD_T2	2	2	0	0.4	0.2	-0.2	0.43	0.5	1	1	0	1200	1200	0
5/16/2024 11:35	42902	MIDD_T2	8	8	0	0.55	0.33	-0.22	0	0	0	0	0	0	0	0
5/16/2024 11:35	13502	MCMI_T1	1	2	1	0.3	0.95	0.65	0	0	0	0	0	0	0	0
5/16/2024 11:36	52502	PROG_T2	3	0	-3	0.37	0	-0.37	-0.56	0.39	1	0	-1	900	0	-900
5/16/2024 11:37	52502	PROG_T2	3	0	-3	0.37	0	-0.37	-0.56	0.39	1	0	-1	900	0	-900
5/16/2024 11:38	52502	PROG_T2	3	0	-3	0.37	0	-0.37	0.39	0.42	1	0	-1	900	0	-900
5/16/2024 11:38	61404	SLIT_T1	0	0	0	0	0	0	0.07	-0.02	0	0	0	0	0	0
5/16/2024 11:39	51302	WIND_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/16/2024 11:39	67605	WARW_T1	21	27	6	0.56	0.65	0.09	-1.03	-1.02	0	0	0	0	0	0
5/16/2024 11:39	15001	BLMO_T1	4	6	2	0.23	0.72	0.49	0	0	0	0	0	0	0	0
5/16/2024 11:39	51306	WIND_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
5/16/2024 11:40	51303	WIND_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/16/2024 11:40	51305	WIND_T1	1	3	2	0.7	0.47	-0.23	0.26	0.27	0	0	0	0	0	0
5/16/2024 11:40	51301	WIND_T1	3	5	2	0.77	0.82	0.05	0	0	0	0	0	0	0	0
5/16/2024 11:41	61704	ELIZ_T2	0	5	5	0	0.24	0.24	0	0	0	0	0	0	0	0
5/16/2024 11:41	62102	LLAN_T1	0	0	0	0	0	0	0.65	0.68	0	0	0	0	0	0
5/16/2024 11:41	15001	BLMO_T1	4	6	2	0.23	0.72	0.49	0	0	0	0	0	0	0	0
5/16/2024 11:41	29402	BELT_T1	1	1	0	8.3	8.2	-0.1	0	0	0	0	0	0	0	0
5/16/2024 11:41	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 11:41	61702	ELIZ_T2	2	5	3	0.45	0.6	0.15	-1.9	-1.9	2	2	0	1500	1500	0
5/16/2024 11:42	15001	BLMO_T1	4	6	2	0.23	0.72	0.49	0	0	0	0	0	0	0	0
5/16/2024 11:45	53901	HALI_T2	5	2	-3	0.44	0.7	0.26	-1.4	-0.92	0	0	0	0	0	0
5/16/2024 11:45	41202	KENM_T2	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
5/16/2024 11:45	53902	HALI_T2	4	5	1	1.98	1.92	-0.06	0	0	0	0	0	0	0	0
5/16/2024 11:45	53903	HALI_T2	20	42	22	0.6	0.46	-0.14	0	0	0	0	0	0	0	0
5/16/2024 11:47	60502	NMAN_T2	9	97	88	0.18	0.14	-0.04	-0.01	0.04	0	0	0	0	0	0
5/16/2024 11:47	60501	NMAN_T2	6	72	66	3.08	0.42	-2.66	0	0	0	0	0	0	0	0
5/16/2024 11:47	60504	NMAN_T2	3	3	0	0.63	0.4	-0.23	0	0	0	0	0	0	0	0
5/16/2024 11:48	65501	MOJO_T1	0	0	0	0	0	0	0.03	-0.05	0	0	0	0	0	0
5/16/2024 11:49	60502	NMAN_T2	9	97	88	0.18	0.14	-0.04	-0.01	0.07	0	0	0	0	0	0
5/16/2024 11:49	60504	NMAN_T2	3	3	0	0.63	0.4	-0.23	0	0	0	0	0	0	0	0
5/16/2024 11:49	60501	NMAN_T2	6	72	66	3.08	0.42	-2.66	0	0	0	0	0	0	0	0
5/16/2024 11:50	14603	SWHI_T1	0	4	4	0	0.55	-1.65	-1.69	2	2	0	0	1200	1200	0
5/16/2024 11:51	60501	NMAN_T2	6	72	66	3.08	0.42	-2.66	0	0	0	0	0	0	0	0
5/16/2024 11:51	60504	NMAN_T2	3	3	0	0.63	0.4	-0.23	0	0	0	0	0	0	0	0
5/16/2024 11:51	60502	NMAN_T2	9	97	88	0.18	0.14	-0.04	-0.01	0.07	0	0	0	0	0	0
5/16/2024 11:52	60501	NMAN_T2	6	72	66	3.08	0.42	-2.66	0	0	0	0	0	0	0	0
5/16/2024 11:52	60504	NMAN_T2	3	3	0	0.63	0.4	-0.23	0	0	0	0	0	0	0	0
5/16/2024 11:52	60502	NMAN_T2	9	97	88	0.18	0.14	-0.04	-0.01	0.04	0	0	0	0	0	0
5/16/2024 11:53	67803	WLAN_T1	2	1	-1	0.2	0.2	0	-1.68	-1.64	0	0	0	0	0	0
5/16/2024 11:53	57403	SPAN_T1	4	13	9	0.28	0.26	-0.02	0.07	0.01	0	0	0	0	0	0
5/16/2024 11:53	60504	NMAN_T2	3	3	0	0.63	0.4	-0.23	0	0	0	0	0	0	0	0
5/16/2024 11:53	60501	NMAN_T2	6	72	66	3.08	0.42	-2.66	0	0	0	0	0	0	0	0
5/16/2024 11:53	57401	SPAN_T1	5	4	-1	0.28	0.38	0.1	0	0	0	0	0	0	0	0
5/16/2024 11:53	60502	NMAN_T2	9	97	88	0.18	0.14	-0.04	0.04	-0.06	0	0	0	0	0	0
5/16/2024 11:53	67804	WLAN_T1	4	3	-1	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
5/16/2024 11:54	67805	WLAN_T1	0	0	0	0	0	0	-1.39	-1.46	0	0	0	0	0	0
5/16/2024 11:54	55102	WERT_T2	0	0	0	0	0	0	-0.37	-2.26	2	2	0	1200	1200	0
5/16/2024 11:54	67803	WLAN_T1	2	1	-1	0.2	0.2	0	-0.84	-0.82	0	0	0	0	0	0
5/16/2024 11:54	42201	SHEN_T2	1	0	-1	0.3	0	-0.3	0.43	0.43	0	0	0	0	0	0
5/16/2024 11:54	67804	WLAN_T1	4	3	-1	0.18	0.13	-0.05	-3.18	-3.15	0	0	0	0	0	0
5/16/2024 11:55	67804	WLAN_T1	4	3	-1	0.18	0.13	-0.05	-2.12	-2.1	0	0	0	0	0	0
5/16/2024 11:55	67803	WLAN_T1	2	1	-1	0.2	0.2	0	-0.84	-0.82	0	0	0	0	0	0
5/16/2024 11:55	58002	WCAR_T2	1	2	1	1.3	1.05	-0.25	0	0	0	0	0	0	0	0
5/16/2024 11:55	51301	WIND_T1	5	4	-1	0.82	0.53	-0.29	-0.3	-0.34	0	0	0	0	0	0
5/16/2024 11:55	51305	WIND_T1	1	3	2	0.9	0.53	-0.37	0	0	0	0	0	0	0	0
5/16/2024 11:55	51303	WIND_T1	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
5/16/2024 11:55	46004	BERW_T2	0	1	1	0	0	0	0.33	0.23	0	0	0	0	0	0
5/16/2024 11:55	58006	WCAR_T2	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
5/16/2024 11:56	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 11:56	41801	GOCI_T2	6	13	7	0.18	0.34	0.16	0	0	0	0	0	0	0	0
5/16/2024 11:56	29402	BELT_T1	1	1	0	8.1	8.4	0.3	0	0	0	0	0	0	0	0
5/16/2024 11:58	14203	EALL_T1	0	0	0	0	0	0	0.04	-0.02	1	1	0	1200	1200	0
5/16/2024 11:59	24105	EHAZ_T1	4	4	0	5.88	5.55	-0.33	-1.88	-1.89	1	1	0	1200	1200	0
5/16/2024 11:59	14201	EALL_T1	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
5/16/2024 11:59	67605	WARW_T1	22	27	5	0.5	0.65	0.15	-1.02	-1.04	0	0	0	0	0	0
5/16/2024 11:59	24101	EHAZ_T1	16	22	6	1.23	2.13	0.9	0	0	0	0	0	0	0	0
5/16/2024 11:59	14203	EALL_T1	0	0	0	0	0	0	0.04	-0.02	1	1	0	1200	1200	0
5/16/2024 11:59	24102	EHAZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/16/2024 12:00	67605	WARW_T1	27	24	-3	0.65	0.59	-0.06	-1.02	-1.04	0	0	0	0	0	0
5/16/2024 12:04	12502	MITR_T2	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
5/16/2024 12:04	12505	MITR_T2	0	0	0	0	0	0	1.63	1.6	0	0	0	0	0	0
5/16/2024 12:05	54203	PENN_T1	18	18	0	0.92	0.57	-0.35	0.39	0.37	1	1	0	600	600	0
5/16/2024 12:05	54201	PENN_T1	11	11	0	0.96	0.73	-0.23	0	0	0	0	0	0	0	0
5/16/2024 12:05	60501	NMAN_T2	7	354	347	2.73	0.41	-2.32	0	0	0	0	0	0	0	0
5/16/2024 12:05	59302	MCAL_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
5/16/2024 12:05	60502	NMAN_T2	33	562	529	0.12	0.36	0.24	0.04	-0.06	0	0	0	0	0	0
5/16/2024 12:05	59301	MCAL_T1	5	8	3	0.4	0.53	0.13	-1.44	-1.58	1	1	0	600	600	0
5/16/2024 12:05	60504	NMAN_T2	2	37	35	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
5/16/2024 12:06	14603	SWHI_T1	4	0	-4	0.55	0	-0.55	0	0	0	0	0	0	0	0
5/16/2024 12:06	14601	SWHI_T1	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
5/16/2024 12:06	60502	NMAN_T2	33	562	529	0.12	0.36	0.24	0.04	-0.06	0	0	0	0	0	0
5/16/2024 12:06	49803	UNIV_T1	0	0	0	0	0	0	-0.91	-0.88	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/16/2024 12:06	60501	NMAN_T2	7	354	347	2.73	0.41	-2.32	0	0	0	0	0	0	0	0
5/16/2024 12:06	17802	GILB_T1	2	3	1	0.25	0.3	0.05	0.08	0.1	0	0	0	0	0	0
5/16/2024 12:06	13701	SCHN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/16/2024 12:06	12505	MITR_T2	0	0	0	0	0	0	1.63	1.6	0	0	0	0	0	0
5/16/2024 12:06	49804	UNIV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/16/2024 12:06	60504	NMAN_T2	2	37	35	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
5/16/2024 12:06	13704	SCHN_T2	3	1	-2	0.2	0.7	0.5	-0.29	-0.27	0	0	0	0	0	0
5/16/2024 12:06	12502	MITR_T2	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
5/16/2024 12:07	14401	SSLA_T1	1	1	0	0.3	0.1	-0.2	-0.47	-0.5	0	0	0	0	0	0
5/16/2024 12:07	54201	PENN_T1	11	11	0	0.96	0.73	-0.23	0	0	0	0	0	0	0	0
5/16/2024 12:07	49804	UNIV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/16/2024 12:07	49803	UNIV_T1	0	0	0	0	0	0	-0.91	-0.88	0	0	0	0	0	0
5/16/2024 12:07	54203	PENN_T1	18	18	0	0.92	0.57	-0.35	0.39	0.37	1	1	0	600	600	0
5/16/2024 12:07	14404	SSLA_T1	2	2	0	2.95	2.85	-0.1	0	0	0	0	0	0	0	0
5/16/2024 12:09	13704	SCHN_T2	3	1	-2	0.2	0.7	0.5	-0.27	-0.28	0	0	0	0	0	0
5/16/2024 12:09	67803	WLAN_T1	0	1	1	0	0.2	0.2	-0.82	-0.83	0	0	0	0	0	0
5/16/2024 12:09	67804	WLAN_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/16/2024 12:09	14601	SWHI_T1	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
5/16/2024 12:09	14603	SWHI_T1	4	0	-4	0.55	0	-0.55	0	0	0	0	0	0	0	0
5/16/2024 12:09	13701	SCHN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/16/2024 12:10	58002	WCAR_T2	1	2	1	7.6	0.2	-7.4	0	0	0	0	0	0	0	0
5/16/2024 12:10	58006	WCAR_T2	0	0	0	0	0	0	0.35	0.39	0	0	0	0	0	0
5/16/2024 12:11	56504	ROCK_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/16/2024 12:11	56501	ROCK_T2	6	4	-2	0.63	0.65	0.02	251.88	251.88	0	0	0	0	0	0
5/16/2024 12:11	56503	ROCK_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/16/2024 12:12	23203	HIRU_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/16/2024 12:12	43506	WWIL_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
5/16/2024 12:12	56504	ROCK_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/16/2024 12:12	56503	ROCK_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/16/2024 12:12	23202	HIRU_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
5/16/2024 12:12	56501	ROCK_T2	6	4	-2	0.63	0.65	0.02	251.88	251.88	0	0	0	0	0	0
5/16/2024 12:12	43504	WWIL_T1	2	1	-1	0.25	0.3	0.05	0.67	0.71	0	0	0	0	0	0
5/16/2024 12:12	43505	WWIL_T1	1	1	0	2.7	2.6	-0.1	0	0	0	0	0	0	0	0
5/16/2024 12:13	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/16/2024 12:13	56503	ROCK_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/16/2024 12:13	56501	ROCK_T2	6	4	-2	0.63	0.65	0.02	83.96	83.96	0	0	0	0	0	0
5/16/2024 12:13	56504	ROCK_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/16/2024 12:14	60504	NMAN_T2	2	37	35	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
5/16/2024 12:14	25402	LAHA_T2	0	1	1	0	0.2	0.2	-0.5	-0.72	0	0	0	0	0	0
5/16/2024 12:14	60502	NMAN_T2	33	562	529	0.12	0.36	0.24	-0.06	-0.01	0	0	0	0	0	0
5/16/2024 12:14	60501	NMAN_T2	7	354	347	2.73	0.41	-2.32	0	0	0	0	0	0	0	0
5/16/2024 12:16	25402	LAHA_T2	1	0	-1	0.2	0	-0.2	-0.5	-0.72	0	0	0	0	0	0
5/16/2024 12:19	54201	PENN_T1	10	11	1	0.5	0.73	0.23	0.07	0.04	0	0	0	0	0	0
5/16/2024 12:19	55002	NEWP_T1	7	10	3	0.66	0.58	-0.08	-0.16	-0.17	0	0	0	0	0	0
5/16/2024 12:19	54203	PENN_T1	18	18	0	0.45	0.57	0.12	0	0	0	0	0	0	0	0
5/16/2024 12:21	42201	SHEN_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
5/16/2024 12:21	14802	TREI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/16/2024 12:21	14801	TREI_T2	3	2	-1	0.97	0.5	-0.47	0.36	0.4	0	0	0	0	0	0
5/16/2024 12:21	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 12:22	43301	WATS_T2	2	3	1	0.85	0.43	-0.42	0	0	1	1	0	900	900	0
5/16/2024 12:22	43302	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/16/2024 12:22	43304	WATS_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/16/2024 12:23	10102	ALLE_T2	1	1	0	6.7	6.5	-0.2	0	0	0	0	0	0	0	0
5/16/2024 12:23	67505	WEWI_T1	0	0	0	0	0	0	-0.27	-0.26	2	2	0	1800	1800	0
5/16/2024 12:23	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 12:24	45902	AUBU_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1200	1200	0
5/16/2024 12:25	61703	ELIZ_T1	0	1	1	0	0.2	0.2	-2.36	-2.35	2	2	0	2100	2100	0
5/16/2024 12:25	61701	ELIZ_T1	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
5/16/2024 12:25	45402	WBLO_T2	3	3	0	0.97	0.9	-0.07	-1.57	-1.55	1	1	0	900	900	0
5/16/2024 12:26	45402	WBLO_T2	3	3	0	0.97	0.9	-0.07	-1.57	-1.55	1	1	0	900	900	0
5/16/2024 12:26	61701	ELIZ_T1	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
5/16/2024 12:26	45901	AUBU_T1	0	0	0	0	0	0	2.17	2.21	0	0	0	0	0	0
5/16/2024 12:26	45902	AUBU_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1200	1200	0
5/16/2024 12:26	61703	ELIZ_T1	0	1	1	0	0.2	0.2	-2.36	-2.35	2	2	0	2100	2100	0
5/16/2024 12:27	45402	WBLO_T2	3	3	0	0.97	0.9	-0.07	-1.57	-1.55	1	1	0	900	900	0
5/16/2024 12:27	61701	ELIZ_T1	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
5/16/2024 12:27	45901	AUBU_T1	0	0	0	0	0	0	2.17	2.21	0	0	0	0	0	0
5/16/2024 12:27	48302	ORWI_T2	2	2	0	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
5/16/2024 12:27	61703	ELIZ_T1	0	1	1	0	0.2	0.2	-2.36	-2.35	2	2	0	2100	2100	0
5/16/2024 12:27	60801	BUCK_T1	4	0	-4	0.13	0	-0.13	-0.82	-0.78	1	1	0	600	600	0
5/16/2024 12:28	61703	ELIZ_T1	0	1	1	0	0.2	0.2	-2.36	-2.35	2	2	0	2100	2100	0
5/16/2024 12:28	61701	ELIZ_T1	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
5/16/2024 12:31	58402	MORO_T1	0	0	0	0	0	0	-0.2	-0.22	2	2	0	1500	1500	0
5/16/2024 12:32	58401	MORO_T1	0	0	0	0	0	0	-0.64	-0.59	1	1	0	600	600	0
5/16/2024 12:36	15702	TANN_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
5/16/2024 12:36	15703	TANN_T2	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
5/16/2024 12:37	15702	TANN_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
5/16/2024 12:37	14603	SWHI_T1	0	0	0	0	0	0	-1.64	-1.68	2	2	0	1200	1200	0
5/16/2024 12:37	15703	TANN_T2	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
5/16/2024 12:38	51303	WIND_T1	2	1	-1	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
5/16/2024 12:38	51301	WIND_T1	2	3	1	0.15	0.53	0.38	0	0	0	0	0	0	0	0
5/16/2024 12:38	60801	BUCK_T1	0	0	0	0	0	0	-0.78	-0.46	1	1	0	600	600	0
5/16/2024 12:38	51305	WIND_T1	3	1	-2	0.77	0.5	-0.27	0	0	0	0	0	0	0	0
5/16/2024 12:39	51305	WIND_T1	3	1	-2	0.77	0.5	-0.27	0	0	0	0	0	0	0	0
5/16/2024 12:39	56504	ROCK_T2	1	0	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
5/16/2024 12:39	51301	WIND_T1	2	3	1	0.15	0.53	0.38	0	0	0	0	0	0	0	0
5/16/2024 12:39	56501	ROCK_T2	3	4	1	0.6	0.48	-0.12	167.92	167.92	0	0	0	0	0	0
5/16/2024 12:39	51306	WIND_T2	0	1	1	0	0.3	0.3	0.27	0.25	0	0	0	0	0	0
5/16/2024 12:39	53601	DALM_T2	1	1	0	1.5	0.7	-0.8	0	0	0	0	0	0	0	0
5/16/2024 12:39	51302	WIND_T2	1	1	0	1.1	0.4	-0.7	0	0	0	0	0	0	0	0
5/16/2024 12:39	53602	DALM_T2	0	0	0	0	0	0	-0.53	-0.53	1	1	0	600	600	0
5/16/2024 12:39	51303	WIND_T1	2	1	-1	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
5/16/2024 12:40	51306	WIND_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/16/2024 12:40	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 12:40	57004	WHHI_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
5/16/2024 12:40	43301	WATS_T2	3	1	-2	0.43	0.5	0.07	0	0	0	0	0	0	0	0
5/16/2024 12:40	43302	WATS_T2	0	0	0	0	0	0	0	0	3	3	0	2400	2400	0
5/16/2024 12:40	51304	WIND_T2	0	0	0	0	0	0	0.01	0.1	0	0	0	0	0	0
5/16/2024 12:40	57006	WHHI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/16/2024 12:40	51302	WIND_T2	1	1	0	1.1	0.4	-0.7	0	0	0	0	0	0	0	0
5/16/2024 12:40	43304	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/16/2024 12:40	29402	BELT_T1	1	2	1	8.3	4.3	-4	0	0	0	0	0	0	0	0
5/16/2024 12:41	15702	TANN_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
5/16/2024 12:41	29402	BELT_T1	1	2	1	8.3	4.3	-4	0	0	0	0	0	0	0	0
5/16/2024 12:41	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/16/2024 12:41	15703	TANN_T2	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
5/16/2024 12:42	43304	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/16/2024 12:42	45902	AUBU_T1	0	0	0	0	0	0	-0.55	-0.56	1	1	0	600	600	0
5/16/2024 12:42	43301	WATS_T2	3	1	-2	0.43	0.5	0.07	0	0	1	1	0	900	900	0
5/16/2024 12:42	67804	WLAN_T1	0	0	0	0	0	0	-1.06	-1.07	0	0	0	0	0	0
5/16/2024 12:42	53601	DALM_T2	1	1	0	1.5	0.7	-0.8	0	-0.03	1	1	0	900	900	0
5/16/2024 12:42	60801	BUCK_T1	0	0	0	0	0	0	-0.78	-0.46	1	1	0	600	600	0
5/16/2024 12:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 12:43	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 12:43	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
5/16/2024 12:43	63801	HEMP_T1	0	0	0	0	0	0	-0.48	-0.39	1	1	0	900	900	0
5/16/2024 12:44	53601	DALM_T2	1	1	0	1.5	0.7	-0.8	0	-0.03	1	1	0	900	900	0
5/16/2024 12:47	41902	REED_T1	0	0	0	0	0	0	1.12	1.12	0	0	0	0	0	0
5/16/2024 12:49	41205	KENM_T2	0	0	0	0	0	0	-0.8	-0.82	1	1	0	600	600	0
5/16/2024 12:50	55001	NEWP_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
5/16/2024 12:50	55002	NEWP_T1	7	8	1	0.6	0.75	0.15	-0.21	-0.18	0	0	0	0	0	0
5/16/2024 12:51	60501	NMAN_T2	24	13	-11	0.95	1.71	0.76	0	0	0	0	0	0	0	0
5/16/2024 12:51	60502	NMAN_T2	40	21	-19	0.14	0.14	0	-0.01	-0.01	0	0	0	0	0	0
5/16/2024 12:51	57403	SPAN_T1	1	3	2	0.8	0.43	-0.37	0.04	0.06	0	0	0	0	0	0
5/16/2024 12:51	57401	SPAN_T1	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
5/16/2024 12:51	60504	NMAN_T2	3	3	0	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
5/16/2024 12:51	17002	RIRO_T2	0	2	2	0	0.5	0.5	0.64	0.68	0	0	0	0	0	0
5/16/2024 12:52	41902	REED_T1	0	0	0	0	0	0	1.12	1.12	0	0	0	0	0	0
5/16/2024 12:53	57004	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 12:53	57006	WHHI_T2	1	1	0	0.3	0.3	0	0.54	0.43	1	1	0	600	600	0
5/16/2024 12:53	47403	PENS_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
5/16/2024 12:53	47402	PENS_T1	1	1	0	8.2	0.5	-7.7	0	0	0	0	0	0	0	0
5/16/2024 12:53	47401	PENS_T1	1	2	1	0.3	0.55	0.25	1.14	1.22	0	0	0	0	0	0
5/16/2024 12:53	43301	WATS_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
5/16/2024 12:53	43302	WATS_T2	0	0	0	0	0	0	0	0	3	3	0	2400	2400	0
5/16/2024 12:53	57404	SPAN_T2	0	0	0	0	0	0	-0.17	-0.15	1	1	0	1200	1200	0
5/16/2024 12:54	44301	BEAV_T2	0	2	2	0	0.25	0.25	0.76	0.59	2	2	0	1500	1500	0
5/16/2024 12:54	14802	TREI_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
5/16/2024 12:54	14801	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 13:01	50502	MECH_T1	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
5/16/2024 13:01	50505	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/16/2024 13:01	50503	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 13:01	50501	MECH_T1	4	4	0	1.28	1.3	0.02	-0.53	-0.55	0	0	0	0	0	0
5/16/2024 13:01	50506	MECH_T1	1	1	0	0.2	2.1	1.9	0	0	0	0	0	0	0	0
5/16/2024 13:04	57303	MOAL_T2	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
5/16/2024 13:04	57301	MOAL_T2	0	0	0	0	0	0	0.44	0.49	0	0	0	0	0	0
5/16/2024 13:04	57306	MOAL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/16/2024 13:04	57304	MOAL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/16/2024 13:07	57004	WHHI_T2	0	1	1	0	4.3	4.3	-0.39	-0.38	0	0	0	0	0	0
5/16/2024 13:07	57401	SPAN_T1	3	3	0	0.17	0.27	0.1	-0.99	-1.02	1	1	0	600	600	0
5/16/2024 13:07	57403	SPAN_T1	3	1	-2	0.43	0.8	0.37	0	0	0	0	0	0	0	0
5/16/2024 13:07	57006	WHHI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/16/2024 13:08	58006	WCAR_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
5/16/2024 13:09	57401	SPAN_T1	3	3	0	0.17	0.27	0.1	-1.02	-0.97	1	1	0	600	600	0
5/16/2024 13:09	14802	TREI_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
5/16/2024 13:09	57403	SPAN_T1	3	1	-2	0.43	0.8	0.37	0	0	0	0	0	0	0	0
5/16/2024 13:09	14801	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 13:12	55105	WERT_T1	0	0	0	0	0	0	-0.34	-0.23	1	1	0	900	900	0
5/16/2024 13:20	50502	MECH_T1	1	1	0	2	2.4	0.4	0.09	0.03	1	1	0	1200	1200	0
5/16/2024 13:20	50501	MECH_T1	4	5	1	1.3	1.15	-0.15	0	0	0	0	0	0	0	0
5/16/2024 13:20	50503	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/16/2024 13:20	42802	SELI_T1	1	0	-1	0.1	0	-0.1	-1.01	-0.94	2	2	0	1800	1800	0
5/16/2024 13:20	50505	MECH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/16/2024 13:20	50506	MECH_T1	1	1	0	2.1	0.8	-1.3	-0.01	-0.05	1	1	0	900	900	0
5/16/2024 13:21	50503	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/16/2024 13:21	50506	MECH_T1	1	1	0	2.1	0.8	-1.3	-0.01	-0.05	1	1	0	900	900	0
5/16/2024 13:21	50501	MECH_T1	4	5	1	1.3	1.15	-0.15	0	0	0	0	0	0	0	0
5/16/2024 13:21	50502	MECH_T1	1	1	0	2	2.4	0.4	0	0	0	0	0	0	0	0
5/16/2024 13:21	50505	MECH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/16/2024 13:22	59101	WALK_T2	1	0	-1	0.2	0	-0.2	1.63	1.48	0	0	0	0	0	0
5/16/2024 13:24	58006	WCAR_T2	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
5/16/2024 13:24	14603	SWHI_T1	0	0	0	0	0	0	-1.68	-1.71	2	2	0	1200	1200	0
5/16/2024 13:24	58002	WCAR_T2	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
5/16/2024 13:24	23001	SAJO_T1	0	0	0	0	0	0	-0.86	-0.82	0	0	0	0	0	0
5/16/2024 13:25	66701	STRA_T1	0	0	0	0	0	0	0	-0.01	1	1	0	600	600	0
5/16/2024 13:25	14603	SWHI_T1	0	0	0	0	0	0	-3.36	-3.42	4	4	0	2400	2400	0
5/16/2024 13:29	23902	EFMO_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
5/16/2024 13:29	11406	FARM_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 13:29	11405	FARM_T1	0	0	0	0	0	0	-0.94	-0.96	1	0	-1	1200	0	-1200
5/16/2024 13:30	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 13:32	52403	GRPA_T2	1	2	1	0.7	0.25	-0.45	0.21	0.19	0	0	0	0	0	0
5/16/2024 13:32	52401	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/16/2024 13:32	58402	MORO_T1	0	1	1	0	0.4	0.4	-0.97	-0.9	3	3	0	2400	2400	0
5/16/2024 13:32	11401	FARM_T1	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
5/16/2024 13:32	52402	GRPA_T2	7	8	1	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
5/16/2024 13:34	54502	ENOL_T2	1	1	0	0.9	1.5	0.6	-2.2	-2.2	2	2	0	1200	1200	0
5/16/2024 13:34	13503	MCMI_T2	1	1	0	0.9	0.3	-0.6	-0.01	-0.01	0	0	0	0	0	0
5/16/2024 13:34	46504	LOHA_T1	2	3	1	0.75	0.47	-0.28	0	0	0	0	0	0	0	0
5/16/2024 13:34	50502	MECH_T1	1	1	0	1.9	2.4	0.5	0	0	0	0	0	0	0	0
5/16/2024 13:34	46506	LOHA_T1	0	0	0	0	0	0	-0.37	-0.33	0	0	0	0	0	0
5/16/2024 13:34	50501	MECH_T1	4	4	0	1.15	0.83	-0.32	0	0	0	0	0	0	0	0
5/16/2024 13:34	54505	ENOL_T2	1	2	1	0.5	0.9	0.4	0	0	0	0	0	0	0	0
5/16/2024 13:34	50506	MECH_T1	1	0	-1	0.8	0	-0.8	-0.05	0.43	1	1	0	900	900	0
5/16/2024 13:34	54206	PENN_T2	0	0	0	0	0	0	0.32	0.38	0	0	0	0	0	0
5/16/2024 13:35	50501	MECH_T1	4	4	0	1.15	0.83	-0.32	0	0	0	0	0	0	0	0
5/16/2024 13:35	50502	MECH_T1	1	1	0	1.9	2.4	0.5	0	0	0	0	0	0	0	0
5/16/2024 13:35	50506	MECH_T1	1	0	-1	0.8	0	-0.8	-0.1	0.86	2	2	0	1800	1800	0
5/16/2024 13:36	54201	PENN_T1	5	11	6	0.68	1.24	0.56	0.08	0.24	0	0	0	0	0	0
5/16/2024 13:36	54203	PENN_T1	18	18	0	0.49	1.35	0.86	0.44	0.44	1	1	0	600	600	0
5/16/2024 13:36	50701	SMEC_T1	0	0	0	0	0	0	1.07	1.32	0	0	0	0	0	0
5/16/2024 13:37	67502	WEWI_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
5/16/2024 13:37	57205	ROSS_T1	1	1	0	0.6	0.8	0.2	-0.66	0.4	1	0	-1	900	0	-900
5/16/2024 13:37	54505	ENOL_T2	1	2	1	0.5	0.9	0.4	0	0	0	0	0	0	0	0
5/16/2024 13:37	54502	ENOL_T2	1	1	0	0.9	1.5	0.6	-1.1	-1.1	1	1	0	600	600	0
5/16/2024 13:38	51301	WIND_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
5/16/2024 13:38	57004	WHHI_T2	1	0	-1	4.3	0	-4.3	0	0	0	0	0	0	0	0
5/16/2024 13:38	51305	WIND_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
5/16/2024 13:38	57003	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/16/2024 13:38	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 13:38	54502	ENOL_T2	1	1	0	0.9	1.5	0.6	-1.1	-1.11	1	1	0	600	600	0
5/16/2024 13:38	57006	WHHI_T2	0	1	1	0	0.5	0.5	1.26	1.14	1	0	-1	600	0	-600
5/16/2024 13:38	54505	ENOL_T2	1	2	1	0.5	0.9	0.4	0	0	0	0	0	0	0	0
5/16/2024 13:39	58002	WCAR_T2	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
5/16/2024 13:39	58006	WCAR_T2	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
5/16/2024 13:39	67502	WEWI_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
5/16/2024 13:39	54202	PENN_T2	0	0	0	0	0	0	0.1	0.85	0	0	0	0	0	0
5/16/2024 13:40	57004	WHHI_T2	1	0	-1	4.3	0	-4.3	0	0	0	0	0	0	0	0
5/16/2024 13:40	57003	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/16/2024 13:40	55102	WERT_T2	0	0	0	0	0	0	-0.91	-0.88	1	1	0	600	600	0
5/16/2024 13:40	57006	WHHI_T2	0	1	1	0	0.5	0.5	1.26	1.14	0	0	0	0	0	0
5/16/2024 13:41	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/16/2024 13:41	56802	BENV_T2	7	3	-4	0.39	0.6	0.21	-0.54	-0.59	0	0	0	0	0	0
5/16/2024 13:41	67502	WEWI_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
5/16/2024 13:42	61102	BERK_T5	0	0	0	0	0	0	0.1	0.01	1	1	0	300	300	0
5/16/2024 13:42	56802	BENV_T2	7	3	-4	0.39	0.6	0.21	-0.54	-0.59	0	0	0	0	0	0
5/16/2024 13:43	56802	BENV_T2	7	3	-4	0.39	0.6	0.21	-0.54	-0.59	0	0	0	0	0	0
5/16/2024 13:43	54206	PENN_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
5/16/2024 13:44	57006	WHHI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/16/2024 13:44	57003	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/16/2024 13:44	57002	WHHI_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
5/16/2024 13:44	57004	WHHI_T2	1	0	-1	4.3	0	-4.3	0	0	0	0	0	0	0	0
5/16/2024 13:44	56802	BENV_T2	7	3	-4	0.39	0.6	0.21	-2.16	-2.36	0	0	0	0	0	0
5/16/2024 13:46	56802	BENV_T2	3	2	-1	0.47	0.75	0.28	-0.54	-0.59	0	0	0	0	0	0
5/16/2024 13:46	63602	LETO_T1	0	1	1	0	0.5	0.5	-0.34	-0.29	0	0	0	0	0	0
5/16/2024 13:47	56803	BENV_T1	1	0	-1	0.1	0	-0.1	-0.1	-0.07	0	0	0	0	0	0
5/16/2024 13:47	56802	BENV_T2	3	2	-1	0.47	0.75	0.28	-0.54	-0.59	0	0	0	0	0	0
5/16/2024 13:47	56801	BENV_T1	12	16	4	0.81	0.81	0	0	0	0	0	0	0	0	0
5/16/2024 13:48	63602	LETO_T1	0	1	1	0	0.5	0.5	-0.34	-0.29	0	0	0	0	0	0
5/16/2024 13:49	46504	LOHA_T1	2	2	0	0.15	0.7	0.55	0	0	0	0	0	0	0	0
5/16/2024 13:49	46506	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 13:49	46505	LOHA_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
5/16/2024 13:52	50701	SMEC_T1	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
5/16/2024 13:52	43801	SWIL_T1	1	2	1	4.7	2.4	-2.3	0	0	0	0	0	0	0	0
5/16/2024 13:52	43802	SWIL_T1	1	0	-1	0.6	0	-0.6	-0.05	-0.05	1	1	0	600	600	0
5/16/2024 13:53	67605	WARW_T1	30	30	0	0.58	0.57	-0.01	-1	-0.98	0	0	0	0	0	0
5/16/2024 13:53	67603	WARW_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
5/16/2024 13:53	60101	COCA_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
5/16/2024 13:54	50701	SMEC_T1	0	0	0	0	0	0	0.68	0.5	0	0	0	0	0	0
5/16/2024 13:55	67605	WARW_T1	30	30	0	0.58	0.57	-0.01	0	0	0	0	0	0	0	0
5/16/2024 13:55	67603	WARW_T1	0	2	2	0	0.45	0.45	0.11	0.06	0	0	0	0	0	0
5/16/2024 13:55	15103	UPHA_T2	0	1	1	0	0.2	0.2	0.41	0.46	0	0	0	0	0	0
5/16/2024 13:55	15001	BLMO_T1	4	9	5	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
5/16/2024 13:56	49804	UNIV_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/16/2024 13:56	60101	COCA_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
5/16/2024 13:56	49803	UNIV_T1	0	0	0	0	0	0	-0.75	-0.85	0	0	0	0	0	0
5/16/2024 13:56	58006	WCAR_T2	0	0	0	0	0	0	0.43	0.38	0	0	0	0	0	0
5/16/2024 13:56	58002	WCAR_T2	4	1	-3	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
5/16/2024 13:57	60901	DONG_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
5/16/2024 13:57	60904	DONG_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/16/2024 13:57	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/16/2024 13:57	60902	DONG_T2	0	0	0	0	0	0	1.13	1.16	0	0	0	0	0	0
5/16/2024 13:58	52402	GRPA_T2	5	7	2	0.3	0.41	0.11	0	0	0	0	0	0	0	0
5/16/2024 13:58	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/16/2024 13:58	52401	GRPA_T2	1	1	0	0.1	0.5	0.4	-0.57	-0.56	0	0	0	0	0	0
5/16/2024 13:58	52403	GRPA_T2	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
5/16/2024 13:59	60101	COCA_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
5/16/2024 14:01	23201	HIRU_T2	0	24	24	0	0.11	0.11	0	0	0	0	0	0	0	0
5/16/2024 14:01	23202	HIRU_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 14:01	23203	HIRU_T2	0	7	7	0	0.14	0.14	0.15	0.06	0	0	0	0	0	0
5/16/2024 14:01	54602	SUMM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/16/2024 14:01	54601	SUMM_T2	13	9	-4	0.46	0.26	-0.2	-1.58	-1.61	2	2	0	2100	2100	0
5/16/2024 14:03	51201	MTON_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
5/16/2024 14:04	57205	ROSS_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/16/2024 14:04	57203	ROSS_T1	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
5/16/2024 14:05	64101	REFR_T1	1	1	0	0.4	0.1	-0.3	-0.22	-0.18	0	0	0	0	0	0
5/16/2024 14:05	65901	SAKR_T2	1	1	0	8.6	8.7	0.1	-0.99	-1.03	1	1	0	900	900	0
5/16/2024 14:05	59002	MIFF_T1	6	6	0	0.35	0.72	0.37	0	0	0	0	0	0	0	0
5/16/2024 14:05	65904	SAKR_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
5/16/2024 14:05	59001	MIFF_T1	1	2	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/16/2024 14:05	59003	MIFF_T1	1	1	0	0.2	0.6	0.4	-0.24	-0.1	0	0	0	0	0	0
5/16/2024 14:06	57203	ROSS_T1	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
5/16/2024 14:06	57205	ROSS_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/16/2024 14:06	64101	REFR_T1	1	1	0	0.4	0.1	-0.3	-0.22	-0.18	0	0	0	0	0	0
5/16/2024 14:06	58002	WCAR_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/16/2024 14:06	67503	WEWI_T2	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
5/16/2024 14:06	58006	WCAR_T2	0	0	0	0	0	0	0.43	0.38	0	0	0	0	0	0
5/16/2024 14:06	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/16/2024 14:07	64101	REFR_T1	1	1	0	0.4	0.1	-0.3	-0.22	-0.18	0	0	0	0	0	0
5/16/2024 14:07	67501	WEWI_T1	61	73	12	0.2	0.24	0.04	-1.01	-1.02	1	1	0	600	600	0
5/16/2024 14:07	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/16/2024 14:07	67503	WEWI_T2	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
5/16/2024 14:11	67501	WEWI_T1	61	73	12	0.2	0.24	0.04	-1.02	-0.92	1	0	-1	600	0	-600
5/16/2024 14:15	23203	HIRU_T2	1	7	6	0.1	0.14	0.04	0.06	0	0	0	0	0	0	0
5/16/2024 14:15	23202	HIRU_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 14:15	23201	HIRU_T2	3	24	21	0.13	0.11	-0.02	0	0	0	0	0	0	0	0
5/16/2024 14:18	41204	KENM_T2	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
5/16/2024 14:24	40201	BEGA_T2	2	4	2	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
5/16/2024 14:28	53902	HALI_T2	1	2	1	5.7	3.15	-2.55	0	0	0	0	0	0	0	0
5/16/2024 14:28	53901	HALI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/16/2024 14:28	53903	HALI_T2	2	4	2	1.6	0.95	-0.65	0	0	0	0	0	0	0	0
5/16/2024 14:29	53901	HALI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/16/2024 14:29	53902	HALI_T2	1	2	1	5.7	3.15	-2.55	0	0	0	0	0	0	0	0
5/16/2024 14:29	53903	HALI_T2	2	4	2	1.6	0.95	-0.65	0	0	0	0	0	0	0	0
5/16/2024 14:31	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 14:31	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 14:31	65207	PRIN_T4	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 14:32	16102	BING_T2	1	1	0	0.1	0.1	0	-1.09	-1.1	0	0	0	0	0	0
5/16/2024 14:32	53903	HALI_T2	4	2	-2	0.95	1.6	0.65	0	0	0	0	0	0	0	0
5/16/2024 14:32	23201	HIRU_T2	24	64	40	0.11	0.15	0.04	0	0	0	0	0	0	0	0
5/16/2024 14:32	53902	HALI_T2	1	2	1	5.8	3.1	-2.7	0	0	0	0	0	0	0	0
5/16/2024 14:32	23203	HIRU_T2	7	14	7	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
5/16/2024 14:32	58001	WCAR_T1	4	4	0	0.98	0.75	-0.23	0	0	0	0	0	0	0	0
5/16/2024 14:32	58003	WCAR_T1	2	1	-1	0.8	1.2	0.4	0	0	0	0	0	0	0	0
5/16/2024 14:32	23202	HIRU_T2	6	7	1	0.1	0.14	0.04	0	0	0	0	0	0	0	0
5/16/2024 14:32	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 14:32	40201	BEGA_T2	2	6	4	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
5/16/2024 14:32	53901	HALI_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/16/2024 14:34	53903	HALI_T2	4	2	-2	0.95	1.6	0.65	0	0	0	0	0	0	0	0
5/16/2024 14:34	53901	HALI_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/16/2024 14:34	53902	HALI_T2	1	2	1	5.8	3.1	-2.7	0	0	0	0	0	0	0	0
5/16/2024 14:38	67703	WERN_T2	0	0	0	0	0	0	-0.12	-0.06	0	0	0	0	0	0
5/16/2024 14:38	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 14:41	67703	WERN_T2	0	0	0	0	0	0	-0.12	-0.06	0	0	0	0	0	0
5/16/2024 14:47	40101	HUNT_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
5/16/2024 14:48	65604	QVIL_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
5/16/2024 14:49	59001	MIFF_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/16/2024 14:49	59003	MIFF_T1	1	1	0	0.5	0.6	0.1	-0.26	-0.14	0	0	0	0	0	0
5/16/2024 14:49	59002	MIFF_T1	6	6	0	0.72	0.93	0.21	0	0	0	0	0	0	0	0
5/16/2024 14:50	17804	GILB_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
5/16/2024 14:50	17805	GILB_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
5/16/2024 14:51	17805	GILB_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
5/16/2024 14:51	17804	GILB_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
5/16/2024 14:52	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/16/2024 14:54	17804	GILB_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
5/16/2024 14:54	17805	GILB_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
5/16/2024 14:54	17802	GILB_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
5/16/2024 15:05	54505	ENOL_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
5/16/2024 15:05	54502	ENOL_T2	0	0	0	0	0	0	-1.12	-1.11	0	0	0	0	0	0
5/16/2024 15:08	59201	THOM_T1	1	6	5	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
5/16/2024 15:08	59202	THOM_T1	6	24	18	0.22	0.16	-0.06	0	0	0	0	0	0	0	0
5/16/2024 15:10	10903	COOP_T2	57	93	36	0.15	0.24	0.09	-0.18	-0.27	0	0	0	0	0	0
5/16/2024 15:11	63304	GREE_T1	0	0	0	0	0	0	-0.16	-0.26	0	0	0	0	0	0
5/16/2024 15:12	10901	COOP_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
5/16/2024 15:12	10903	COOP_T2	57	93	36	0.15	0.24	0.09	0	0	0	0	0	0	0	0
5/16/2024 15:13	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 15:13	29402	BELT_T1	1	1	0	8.5	8.9	0.4	0	0	0	0	0	0	0	0
5/16/2024 15:18	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 15:18	67401	WAKE_T2	0	0	0	0	0	0	-0.99	-1.07	0	0	0	0	0	0
5/16/2024 15:18	42501	ALTA_T2	0	0	0	0	0	0	0.84	0.75	0	0	0	0	0	0
5/16/2024 15:18	42503	ALTA_T2	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
5/16/2024 15:18	40101	HUNT_T2	0	0	0	0	0	0	-0.82	-0.86	0	0	0	0	0	0
5/16/2024 15:18	52402	GRPA_T2	7	15	8	0.5	0.48	-0.02	-0.97	-0.97	0	0	0	0	0	0
5/16/2024 15:18	63401	HONY_T1	0	0	0	0	0	0	0.39	0.56	0	0	0	0	0	0
5/16/2024 15:18	52401	GRPA_T2	2	3	1	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
5/16/2024 15:18	52403	GRPA_T2	0	9	9	0	0.23	0.23	0.25	0.26	0	0	0	0	0	0
5/16/2024 15:18	40601	PIGR_T1	6	17	11	0.27	0.19	-0.08	-0.36	-0.47	0	0	0	0	0	0
5/16/2024 15:18	60101	COCA_T1	0	0	0	0	0	0	1.14	1.11	0	0	0	0	0	0
5/16/2024 15:18	41502	FAIR_T2	0	0	0	0	0	0	-0.63	-0.65	0	0	0	0	0	0
5/16/2024 15:18	63304	GREE_T1	0	0	0	0	0	0	-0.16	-0.26	0	0	0	0	0	0
5/16/2024 15:19	40702	FFLD_T1	101	117	16	0.33	0.37	0.04	0	0	0	0	0	0	0	0
5/16/2024 15:19	52403	GRPA_T2	0	9	9	0	0.23	0.23	0	0	0	0	0	0	0	0
5/16/2024 15:19	11805	FRAN_T1	0	0	0	0	0	0	-1.28	-1	0	0	0	0	0	0
5/16/2024 15:19	46506	LOHA_T1	0	1	1	0	0.3	0.3	-0.33	-0.29	0	0	0	0	0	0
5/16/2024 15:19	14602	SWHI_T1	279	0	-279	4.02	0	-4.02	0	0	0	0	0	0	0	0
5/16/2024 15:19	14603	SWHI_T1	0	0	0	0	0	0	-1.72	-1.64	0	0	0	0	0	0
5/16/2024 15:19	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
5/16/2024 15:19	10903	COOP_T2	88	101	13	0.2	0.27	0.07	-0.18	-0.27	0	0	0	0	0	0
5/16/2024 15:19	11804	FRAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 15:19	40601	PIGR_T1	6	17	11	0.27	0.19	-0.08	-0.36	-0.47	0	0	0	0	0	0
5/16/2024 15:19	40701	FFLD_T1	54	37	-17	0.56	0.78	0.22	0	0	0	0	0	0	0	0
5/16/2024 15:19	52401	GRPA_T2	2	3	1	0.4	0.27	-0.13	-0.56	-0.56	0	0	0	0	0	0
5/16/2024 15:19	52402	GRPA_T2	7	15	8	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
5/16/2024 15:19	13701	SCHN_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
5/16/2024 15:19	46504	LOHA_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
5/16/2024 15:19	13704	SCHN_T2	4	6	2	0.13	0.2	0.07	0	0	0	0	0	0	0	0
5/16/2024 15:19	40703	FFLD_T1	4	4	0	0.58	0.6	0.02	0.52	0.54	0	0	0	0	0	0
5/16/2024 15:20	40601	PIGR_T1	6	17	11	0.27	0.19	-0.08	0	0	0	0	0	0	0	0
5/16/2024 15:20	40602	PIGR_T1	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
5/16/2024 15:22	67204	TEHI_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
5/16/2024 15:25	67204	TEHI_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
5/16/2024 15:25	59301	MCAL_T1	3	3	0	0.63	0.73	0.1	-1.58	-1.59	0	0	0	0	0	0
5/16/2024 15:25	58006	WCAR_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
5/16/2024 15:26	58001	WCAR_T1	4	5	1	0.58	0.7	0.12	0	0	0	0	0	0	0	0
5/16/2024 15:26	58003	WCAR_T1	1	17	16	1	0.28	-0.72	0.95	0.94	0	0	0	0	0	0
5/16/2024 15:26	10602	BLGL_T2	2	0	-2	9	0	-9	0.87	0.43	0	0	0	0	0	0
5/16/2024 15:26	16301	ALPA_T1	0	1	1	0	0.1	0.1	-0.34	-0.29	0	0	0	0	0	0
5/16/2024 15:27	41502	FAIR_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
5/16/2024 15:27	23901	ERMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 15:28	11601	CEAL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 15:29	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 15:29	21206	ECAR_T2	1	1	0	8.2	8.2	0	-0.14	-0.21	0	0	0	0	0	0
5/16/2024 15:30	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 15:30	21206	ECAR_T2	1	1	0	8.2	8.2	0	-0.14	-0.21	0	0	0	0	0	0
5/16/2024 15:32	44502	HAMI_T2	1	1	0	3.1	2.9	-0.2	0	0	0	0	0	0	0	0
5/16/2024 15:32	12606	MACA_T1	0	0	0	0	0	0	-0.29	-0.24	0	0	0	0	0	0
5/16/2024 15:32	44505	HAMI_T2	0	0	0	0	0	0	0.7	0.72	0	0	0	0	0	0
5/16/2024 15:33	44505	HAMI_T2	0	0	0	0	0	0	0.7	0.72	0	0	0	0	0	0
5/16/2024 15:33	44502	HAMI_T2	1	1	0	3.1	2.9	-0.2	0	0	0	0	0	0	0	0
5/16/2024 15:34	60501	NMAN_T2	332	10	-322	0.43	1.87	1.44	0	0	0	0	0	0	0	0
5/16/2024 15:34	60504	NMAN_T2	35	2	-33	0.31	0.25	-0.06	0.98	0.97	0	0	0	0	0	0
5/16/2024 15:34	60502	NMAN_T2	639	7	-632	0.37	0.1	-0.27	0	0	0	0	0	0	0	0
5/16/2024 15:34	13302	ORVI_T2	1	1	0	0.2	0.1	-0.1	1.43	1.55	0	0	0	0	0	0
5/16/2024 15:35	40601	PIGR_T1	17	0	-17	0.19	0	-0.19	-0.47	-0.47	0	0	0	0	0	0
5/16/2024 15:35	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 15:39	60504	NMAN_T2	35	2	-33	0.31	0.25	-0.06	0	0	0	0	0	0	0	0
5/16/2024 15:39	60502	NMAN_T2	639	7	-632	0.37	0.1	-0.27	-0.05	-0.12	0	0	0	0	0	0
5/16/2024 15:39	60501	NMAN_T2	332	10	-322	0.43	1.87	1.44	0	0	0	0	0	0	0	0
5/16/2024 15:40	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 15:40	21206	ECAR_T2	1	1	0	8.2	8.2	0	-0.21	-0.25	0	0	0	0	0	0
5/16/2024 15:40	61306	EARL_T1	0	0	0	0	0	0	-1.25	-1.24	0	0	0	0	0	0
5/16/2024 15:41	61302	EARL_T1	0	0	0	0	0	0	0.56	0.46	0	0	0	0	0	0
5/16/2024 15:42	57006	WHHI_T2	0	11	11	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 15:42	57001	WHHI_T2	0	0	0	0	0	0	0.03	-0.05	0	0	0	0	0	0
5/16/2024 15:43	61506	EPET_T2	0	0	0	0	0	0	-1.83	-0.84	0	0	0	0	0	0
5/16/2024 15:43	61501	EPET_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
5/16/2024 15:45	21204	ECAR_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/16/2024 15:45	21206	ECAR_T2	1	1	0	7.9	8.3	0.4	-0.21	-0.25	0	0	0	0	0	0
5/16/2024 15:46	12605	MACA_T1	1	0	-1	1.3	0	-1.3	-0.45	-0.45	0	0	0	0	0	0
5/16/2024 15:48	13103	NHAM_T2	0	0	0	0	0	0	-1.69	-1.67	0	0	0	0	0	0
5/16/2024 15:49	13103	NHAM_T2	0	0	0	0	0	0	-1.69	-1.67	0	0	0	0	0	0
5/16/2024 15:50	64101	REFR_T1	0	2	2	0	0.35	0.35	-0.12	-0.07	0	0	0	0	0	0
5/16/2024 15:58	56803	BENV_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/16/2024 15:58	56802	BENV_T2	3	8	5	0.57	0.41	-0.16	-1.62	-1.56	0	0	0	0	0	0
5/16/2024 15:58	56801	BENV_T1	8	10	2	0.35	0.51	0.16	-0.05	-0.02	0	0	0	0	0	0
5/16/2024 15:59	56802	BENV_T2	3	8	5	0.57	0.41	-0.16	-0.54	-0.52	0	0	0	0	0	0
5/16/2024 16:00	40101	HUNT_T2	0	0	0	0	0	0	-0.39	-0.42	0	0	0	0	0	0
5/16/2024 16:01	12002	HATF_T1	0	0	0	0	0	0	0.38	0.41	0	0	0	0	0	0
5/16/2024 16:01	46101	MACI_T2	1	6	5	0.1	0.1	0	-0.27	-0.28	0	0	0	0	0	0
5/16/2024 16:03	56802	BENV_T2	6	6	0	0.4	0.48	0.08	-0.54	-0.52	0	0	0	0	0	0
5/16/2024 16:04	28703	HAMI_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
5/16/2024 16:04	28704	HAMI_T2	1	1	0	0.5	0.2	-0.3	-0.01	-0.01	0	0	0	0	0	0
5/16/2024 16:06	58006	WCAR_T2	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
5/16/2024 16:06	12002	HATF_T1	0	0	0	0	0	0	0.38	0.41	0	0	0	0	0	0
5/16/2024 16:07	27502	WEIS_T2	0	0	0	0	0	0	-0.96	-0.74	0	0	0	0	0	0
5/16/2024 16:11	58001	WCAR_T1	5	7	2	0.96	0.9	-0.06	0	0	0	0	0	0	0	0
5/16/2024 16:11	58003	WCAR_T1	16	48	32	0.28	0.23	-0.05	0.99	0.97	0	0	0	0	0	0
5/16/2024 16:12	46004	BERW_T2	0	2	2	0	0.1	0.1	0.18	0.13	0	0	0	0	0	0
5/16/2024 16:14	62607	ENGL_T1	1	1	0	0.4	0.4	0	-0.74	-0.73	0	0	0	0	0	0
5/16/2024 16:14	62602	ENGL_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
5/16/2024 16:17	44503	HAMI_T2	0	0	0	0	0	0	-1.63	-1.62	0	0	0	0	0	0
5/16/2024 16:17	44502	HAMI_T2	1	1	0	2.9	3.2	0.3	0	0	0	0	0	0	0	0
5/16/2024 16:18	58401	MORO_T1	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
5/16/2024 16:18	12006	HATF_T1	0	0	0	0	0	0	0.36	0.26	0	0	0	0	0	0
5/16/2024 16:19	58401	MORO_T1	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
5/16/2024 16:22	13103	NHAM_T2	0	0	0	0	0	0	-1.68	-1.7	0	0	0	0	0	0
5/16/2024 16:25	66703	STRA_T1	1	0	-1	0.1	0	-0.1	-0.03	0.02	0	0	0	0	0	0
5/16/2024 16:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 16:31	46102	MACI_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
5/16/2024 16:36	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 16:37	60201	ATGL_T2	0	0	0	0	0	0	0.37	0.21	0	0	0	0	0	0
5/16/2024 16:38	67901	WNHO_T2	0	2	2	0	0.35	0.35	-0.36	-0.4	0	0	0	0	0	0
5/16/2024 16:39	43504	WWIL_T1	7	8	1	0.3	0.26	-0.04	0.77	0.76	0	0	0	0	0	0
5/16/2024 16:39	43801	SWIL_T1	2	2	0	3.25	3.2	-0.05	0	0	0	0	0	0	0	0
5/16/2024 16:39	43506	WWIL_T1	2	1	-1	1.15	2.2	1.05	0	0	0	0	0	0	0	0
5/16/2024 16:39	43505	WWIL_T1	1	1	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
5/16/2024 16:39	43802	SWIL_T1	0	1	1	0	0	-0.05	-0.04	-0.04	0	0	0	0	0	0
5/16/2024 16:40	62105	ELAN_T1	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
5/16/2024 16:41	45901	AUBU_T1	0	0	0	0	0	0	1.37	1.35	0	0	0	0	0	0
5/16/2024 16:42	45902	AUBU_T1	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
5/16/2024 16:43	56802	BENV_T2	2	1	-1	0.75	1.2	0.45	-1	-0.96	0	0	0	0	0	0
5/16/2024 16:43	62104	ELAN_T1	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
5/16/2024 16:43	21206	ECAR_T2	1	1	0	7.9	7.8	-0.1	-0.2	-0.25	0	0	0	0	0	0
5/16/2024 16:43	21204	ECAR_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/16/2024 16:44	62106	ELAN_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
5/16/2024 16:44	62104	ELAN_T1	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
5/16/2024 16:44	56802	BENV_T2	2	1	-1	0.75	1.2	0.45	-1	-0.96	0	0	0	0	0	0
5/16/2024 16:45	47001	HUGH_T2	0	0	0	0	0	0	0.04	0.1	0	0	0	0	0	0
5/16/2024 16:45	56802	BENV_T2	1	2	1	1.2	0.7	-0.5	-0.5	-0.48	0	0	0	0	0	0
5/16/2024 16:46	56802	BENV_T2	1	2	1	1.2	0.7	-0.5	-0.5	-0.48	0	0	0	0	0	0
5/16/2024 16:47	21206	ECAR_T2	1	1	0	7.8	7.7	-0.1	-0.2	-0.25	0	0	0	0	0	0
5/16/2024 16:47	21204	ECAR_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/16/2024 16:48	64602	LEOL_T1	0	0	0	0	0	0	0.32	0.26	0	0	0	0	0	0
5/16/2024 16:48	56802	BENV_T2	1	2	1	1.2	0.7	-0.5	-1	-0.96	0	0	0	0	0	0
5/16/2024 16:50	66203	SISP_T2	0	0	0	0	0	0	-0.93	-0.95	0	0	0	0	0	0
5/16/2024 16:51	67502	WEWI_T2	0	5	5	0	0.1	0.1	-0.39	-0.36	0	0	0	0	0	0
5/16/2024 16:53	10205	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 16:53	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 16:54	10205	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 16:54	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 16:58	21204	ECAR_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/16/2024 16:58	21206	ECAR_T2	1	1	0	7.8	7.7	-0.1	-0.25	-0.08	0	0	0	0	0	0
5/16/2024 17:02	63302	GREE_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
5/16/2024 17:04	52501	PROG_T1	0	0	0	0	0	0	0.33	0.23	0	0	0	0	0	0
5/16/2024 17:06	63802	HEMP_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
5/16/2024 17:06	52501	PROG_T1	0	0	0	0	0	0	0.33	0.23	0	0	0	0	0	0
5/16/2024 17:06	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/16/2024 17:07	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/16/2024 17:07	63802	HEMP_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
5/16/2024 17:08	42701	AUGU_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/16/2024 17:08	67203	TEHI_T1	0	0	0	0	0	0	2.22	1.91	0	0	0	0	0	0
5/16/2024 17:08	52501	PROG_T1	0	0	0	0	0	0	0.23	-0.08	0	0	0	0	0	0
5/16/2024 17:09	67203	TEHI_T1	0	0	0	0	0	0	2.22	1.91	0	1	1	0	900	900
5/16/2024 17:09	45902	AUBU_T1	0	0	0	0	0	0	-0.89	-0.94	0	0	0	0	0	0
5/16/2024 17:10	43701	WILL_T1	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
5/16/2024 17:10	43705	WILL_T1	2	2	0	1.15	1.5	0.35	0	0	0	0	0	0	0	0
5/16/2024 17:10	43704	WILL_T1	1	1	0	1.5	1.9	0.4	0	0	0	0	0	0	0	0
5/16/2024 17:11	62607	ENGL_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
5/16/2024 17:11	62605	ENGL_T1	0	0	0	0	0	0	-0.61	-0.57	0	0	0	0	0	0
5/16/2024 17:12	63305	GREE_T1	0	0	0	0	0	0	-1.07	-1.1	0	0	0	0	0	0
5/16/2024 17:12	42701	AUGU_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
5/16/2024 17:13	45902	AUBU_T1	0	0	0	0	0	0	-0.89	-0.94	0	0	0	0	0	0
5/16/2024 17:14	62605	ENGL_T1	0	0	0	0	0	0	-0.61	-0.57	0	0	0	0	0	0
5/16/2024 17:14	62607	ENGL_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
5/16/2024 17:14	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.4	0	0	0	0	0	0
5/16/2024 17:16	62605	ENGL_T1	0	0	0	0	0	0	-0.61	-0.57	0	0	0	0	0	0
5/16/2024 17:16	62607	ENGL_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
5/16/2024 17:16	46501	LOHA_T1	0	0	0	0	0	0	0.19	0.14	0	0	0	0	0	0
5/16/2024 17:16	20601	GRWO_T2	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
5/16/2024 17:17	64601	LEOL_T1	0	0	0	0	0	0	-1.61	-0.33	0	0	0	0	0	0
5/16/2024 17:20	12606	MACA_T1	1	1	0	4.4	0	-4.4	0	0	0	0	0	0	0	0
5/16/2024 17:20	12601	MACA_T1	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
5/16/2024 17:21	42201	SHEN_T2	0	2	2	0	0.35	0.35	0.96	0.92	0	0	0	0	0	0
5/16/2024 17:24	24202	PROV_T4	0	0	0	0	0	0	-0.88	-0.82	0	0	0	0	0	0
5/16/2024 17:26	58006	WCAR_T2	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
5/16/2024 17:26	22003	BOHE_T1	245	68	-177	0.17	0.18	0.01	0	0	0	0	0	0	0	0
5/16/2024 17:26	22002	BOHE_T1	9	5	-4	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
5/16/2024 17:26	22001	BOHE_T1	144	102	-42	0.24	0.15	-0.09	0.23	0.24	0	0	0	0	0	0
5/16/2024 17:29	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 17:29	29402	BELT_T1	1	1	0	8.3	8.3	0	0	0	0	0	0	0	0	0
5/16/2024 17:34	17001	RIRO_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
5/16/2024 17:39	29402	BELT_T1	1	1	0	8.3	8.2	-0.1	0	0	0	0	0	0	0	0
5/16/2024 17:39	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 17:39	56501	ROCK_T2	2	2	0	0.2	1.1	0.9	83.96	83.96	0	0	0	0	0	0
5/16/2024 17:43	24501	GOUL_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
5/16/2024 17:43	53903	HALI_T2	2	2	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
5/16/2024 17:43	53902	HALI_T2	1	1	0	4.4	4.2	-0.2	0	0	0	0	0	0	0	0
5/16/2024 17:43	53901	HALI_T2	0	1	1	0	0.2	0.2	-1.31	-1.33	0	0	0	0	0	0
5/16/2024 17:44	22002	BOHE_T1	1	5	4	0.1	0.18	0.08	0.42	0.36	0	0	0	0	0	0
5/16/2024 17:44	22003	BOHE_T1	44	108	64	0.17	0.19	0.02	0	0	0	0	0	0	0	0
5/16/2024 17:44	22001	BOHE_T1	87	120	33	0.13	0.2	0.07	0	0	0	0	0	0	0	0
5/16/2024 17:46	53903	HALI_T2	2	2	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
5/16/2024 17:46	53902	HALI_T2	1	1	0	4.2	4.2	0	0	0	0	0	0	0	0	0
5/16/2024 17:46	53901	HALI_T2	1	1	0	0.2	0.4	0.2	-2.61	-2.65	0	0	0	0	0	0
5/16/2024 17:47	53903	HALI_T2	2	2	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
5/16/2024 17:47	53902	HALI_T2	1	1	0	4.2	4.2	0	0	0	0	0	0	0	0	0
5/16/2024 17:47	53901	HALI_T2	1	1	0	0.2	0.4	0.2	-2.61	-2.65	0	0	0	0	0	0
5/16/2024 17:48	53903	HALI_T2	2	2	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
5/16/2024 17:48	53901	HALI_T2	1	1	0	0.2	0.4	0.2	-1.31	-1.33	0	0	0	0	0	0
5/16/2024 17:48	53902	HALI_T2	1	1	0	4.2	4.2	0	0	0	0	0	0	0	0	0
5/16/2024 17:49	65205	PRIN_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
5/16/2024 17:51	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.1	0	0	0	0	0	0
5/16/2024 17:52	58006	WCAR_T2	0	0	0	0	0	0	-0.87	0.42	0	0	0	0	0	0
5/16/2024 17:53	24201	PROV_T3	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
5/16/2024 17:53	24204	PROV_T3	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
5/16/2024 17:53	24205	PROV_T3	1	2	1	3.1	1.5	-1.6	0	0	0	0	0	0	0	0
5/16/2024 17:57	24702	FLND_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
5/16/2024 17:57	61102	BERK_T5	0	0	0	0	0	0	0.98	1.04	0	0	0	0	0	0
5/16/2024 17:58	24702	FLND_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
5/16/2024 18:02	63305	GREE_T1	0	0	0	0	0	0	-1.1	-1.1	0	0	0	0	0	0
5/16/2024 18:05	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 18:05	16204	POFA_T1	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 18:07	59201	THOM_T1	5	12	7	0.14	0.26	0.12	0	0	0	0	0	0	0	0
5/16/2024 18:07	59202	THOM_T1	34	117	83	0.19	0.21	0.02	0	0	0	0	0	0	0	0
5/16/2024 18:08	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 18:09	24801	VALM_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
5/16/2024 18:10	22002	BOHE_T1	5	7	2	0.18	0.2	0.02	0.34	0.35	0	0	0	0	0	0
5/16/2024 18:10	22003	BOHE_T1	101	123	22	0.19	0.2	0.01	0	0	0	0	0	0	0	0
5/16/2024 18:10	22001	BOHE_T1	116	120	4	0.2	0.2	0	0	0	0	0	0	0	0	0
5/16/2024 18:15	41801	GOCI_T2	9	1	-8	0.11	0.2	0.09	0	0	0	0	0	0	0	0
5/16/2024 18:15	41802	GOCI_T2	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 18:18	57205	ROSS_T1	0	0	0	0	0	0	-0.99	-1.02	0	0	0	0	0	0
5/16/2024 18:19	59002	MIFF_T1	5	6	1	0.66	0.4	-0.26	0	0	0	0	0	0	0	0
5/16/2024 18:19	59003	MIFF_T1	0	2	2	0	0.2	0.2	0.54	0.66	0	0	0	0	0	0
5/16/2024 18:20	57205	ROSS_T1	0	0	0	0	0	0	-0.99	-1.02	0	0	0	0	0	0
5/16/2024 18:23	67001	STHI_T2	0	1	1	0	0.1	0.1	0.09	0.1	0	0	0	0	0	0
5/16/2024 18:27	29402	BELT_T1	1	1	0	8	8	0	0	0	0	0	0	0	0	0
5/16/2024 18:27	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 18:38	43105	SMIL_T2	7	14	7	0.16	0.22	0.06	0	0	0	0	0	0	0	0
5/16/2024 18:38	43102	SMIL_T2	7	7	0	0.84	0.86	0.02	-0.78	-0.75	0	0	0	0	0	0
5/16/2024 18:38	43103	SMIL_T2	15	17	2	0.5	0.56	0.06	0	0	0	0	0	0	0	0
5/16/2024 18:51	57205	ROSS_T1	0	0	0	0	0	0	-1	-0.99	0	0	0	0	0	0
5/16/2024 19:05	41902	REED_T1	0	0	0	0	0	0	1.23	1.16	0	0	0	0	0	0
5/16/2024 19:05	41901	REED_T1	9	9	0	0.36	0.4	0.04	0	0	0	0	0	0	0	0
5/16/2024 19:10	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 19:10	59101	WALK_T2	0	0	0	0	0	0	0.89	0.49	0	0	0	0	0	0
5/16/2024 19:25	51108	CARL_T1	1	1	0	0.1	0.1	0	-0.43	-0.45	0	0	0	0	0	0
5/16/2024 19:25	51102	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 19:26	62102	ELAN_T1	0	0	0	0	0	0	0.71	0.72	0	0	0	0	0	0
5/16/2024 19:40	56501	ROCK_T2	190	94	-96	0.23	0.19	-0.04	83.96	83.96	0	0	0	0	0	0
5/16/2024 19:41	24103	EHAZ_T1	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
5/16/2024 19:41	24102	EHAZ_T1	2	1	-1	0.75	0.3	-0.45	0	0	0	0	0	0	0	0
5/16/2024 19:41	24105	EHAZ_T1	4	4	0	6.6	6.43	-0.17	0	0	0	0	0	0	0	0
5/16/2024 19:43	24105	EHAZ_T1	4	4	0	6.6	6.43	-0.17	0	0	0	0	0	0	0	0
5/16/2024 19:43	24103	EHAZ_T1	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
5/16/2024 19:43	24102	EHAZ_T1	2	1	-1	0.75	0.3	-0.45	0	0	0	0	0	0	0	0
5/16/2024 20:05	46602	LACR_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
5/16/2024 20:06	43202	MVIL_T2	147	170	23	0.64	0.74	0.1	-0.64	-0.63	0	0	0	0	0	0
5/16/2024 20:09	43202	MVIL_T2	147	170	23	0.64	0.74	0.1	0	0	0	0	0	0	0	0
5/16/2024 20:09	43201	MVIL_T2	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
5/16/2024 20:11	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
5/16/2024 20:14	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
5/16/2024 20:19	42001	MNVL_T2	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
5/16/2024 20:19	42002	MNVL_T2	1	1	0	2.4	2.1	-0.3	0	0	0	0	0	0	0	0
5/16/2024 20:20	64302	LINC_T2	0	0	0	0	0	0	0.98	1.01	0	0	0	0	0	0
5/16/2024 20:20	42002	MNVL_T2	1	1	0	2.4	2.1	-0.3	0.33	0.38	0	0	0	0	0	0
5/16/2024 20:24	67703	WERN_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
5/16/2024 20:24	42002	MNVL_T2	1	1	0	2.4	2.1	-0.3	0	0	0	0	0	0	0	0
5/16/2024 20:24	42001	MNVL_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
5/16/2024 20:25	42001	MNVL_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
5/16/2024 20:25	42002	MNVL_T2	1	1	0	2.4	2.1	-0.3	0	0	0	0	0	0	0	0
5/16/2024 20:46	44301	BEAV_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
5/16/2024 20:51	25503	MADI_T1	142	129	-13	0.57	0.44	-0.13	-0.98	-1	0	0	0	0	0	0
5/16/2024 20:54	10805	CHHI_T2	1	1	0	8	8.2	0.2	-0.61	-0.64	0	0	0	0	0	0
5/16/2024 21:02	45502	DERR_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
5/16/2024 21:08	10801	CHHI_T1	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
5/16/2024 21:11	10805	CHHI_T2	1	1	0	8.2	8.1	-0.1	-0.64	-0.68	0	0	0	0	0	0
5/16/2024 21:20	64704	LITI_T1	0	43	43	0	0.27	0.27	0	0	0	0	0	0	0	0
5/16/2024 21:20	64701	LITI_T1	0	43	43	0	0.19	0.19	0.29	0.16	0	0	0	0	0	0
5/16/2024 21:20	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 21:20	52101	MEIS_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
5/16/2024 21:23	64702	LITI_T2	0	0	0	0	0	0	-1.17	-1.08	0	0	0	0	0	0
5/16/2024 21:23	10805	CHHI_T2	1	1	0	8.4	8.1	-0.3	-0.64	-0.68	0	0	0	0	0	0
5/16/2024 21:23	44601	SALE_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
5/16/2024 21:29	42201	SHEN_T2	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
5/16/2024 21:32	51108	CARL_T1	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
5/16/2024 21:32	51102	CARL_T1	0	55	55	0	0.16	0.16	0	0	0	0	0	0	0	0
5/16/2024 21:33	46803	HEPB_T2	0	0	0	0	0	0	0.51	0.55	0	0	0	0	0	0
5/16/2024 21:33	46801	HEPB_T2	2	2	0	0.5	0.8	0.3	0.67	0.62	0	0	0	0	0	0
5/16/2024 21:34	46801	HEPB_T2	2	2	0	0.5	0.8	0.3	0.67	0.62	0	0	0	0	0	0
5/16/2024 21:34	46802	HEPB_T1	1	1	0	0.4	0.5	0.1	-0.26	-0.26	0	0	0	0	0	0
5/16/2024 21:35	46801	HEPB_T2	2	2	0	0.5	0.8	0.3	0.67	0.62	0	0	0	0	0	0
5/16/2024 21:36	52502	PROG_T2	0	0	0	0	0	0	-0.5	-0.55	1	1	0	900	900	0
5/16/2024 21:36	10805	CHHI_T2	1	1	0	8.1	8.1	0	-0.68	-0.61	0	0	0	0	0	0
5/16/2024 21:39	10801	CHHI_T1	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
5/16/2024 21:41	10805	CHHI_T2	1	1	0	8.1	8.1	0	-0.61	-0.68	0	0	0	0	0	0
5/16/2024 21:42	51302	WIND_T2	1	1	0	1.1	1.6	0.5	0	0	0	0	0	0	0	0
5/16/2024 21:42	10805	CHHI_T2	1	1	0	8.1	8.1	0	-0.61	-0.68	0	0	0	0	0	0
5/16/2024 21:45	12606	MACA_T1	0	1	1	0	0	0	-0.38	-0.4	0	0	0	0	0	0
5/16/2024 21:47	11405	FARM_T1	1	1	0	2.3	2.8	0.5	-0.98	-1.02	1	1	0	1200	1200	0
5/16/2024 21:47	64702	LITI_T2	0	0	0	0	0	0	-0.54	-0.5	0	0	0	0	0	0
5/16/2024 21:50	14201	EALL_T1	0	0	0	0	0	0	0.44	0.48	0	0	0	0	0	0
5/16/2024 21:53	60504	NMAN_T2	321	401	80	0.29	0.3	0.01	0	0	0	0	0	0	0	0
5/16/2024 21:53	44502	HAMI_T2	1	1	0	3.6	3.8	0.2	0	0	0	0	0	0	0	0
5/16/2024 21:53	60502	NMAN_T2	979	1089	110	0.51	0.56	0.05	-0.28	-0.39	0	0	0	0	0	0
5/16/2024 21:53	44503	HAMI_T2	0	4	4	0	0.1	0.1	-1.69	-1.69	0	0	0	0	0	0
5/16/2024 21:53	60501	NMAN_T2	572	600	28	0.63	0.66	0.03	0	0	0	0	0	0	0	0
5/16/2024 21:54	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/16/2024 21:56	62101	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/16/2024 21:56	17002	RIRO_T2	70	53	-17	0.12	0.13	0.01	0.35	0.31	0	0	0	0	0	0
5/16/2024 21:56	62105	ELAN_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 21:56	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/16/2024 21:56	11601	CEAL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 21:56	62104	ELAN_T1	0	0	0	0	0	0	0.52	0.03	0	0	0	0	0	0
5/16/2024 21:57	11601	CEAL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 21:57	17001	RIRO_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
5/16/2024 21:57	46004	BERW_T2	0	0	0	0	0	0	0.01	-0.07	0	0	0	0	0	0
5/16/2024 21:58	45501	DERR_T2	1	1	0	0.3	0.5	0.2	-0.03	-0.18	0	0	0	0	0	0
5/16/2024 21:58	12505	MITR_T2	0	0	0	0	0	0	0.84	0.69	0	0	0	0	0	0
5/16/2024 21:58	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 21:58	16102	BING_T2	0	0	0	0	0	0	-0.08	-0.13	0	0	0	0	0	0
5/16/2024 21:58	16402	MOPO_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
5/16/2024 21:58	55102	WERT_T2	0	0	0	0	0	0	-0.64	-0.67	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/16/2024 21:58	12502	MITR_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
5/16/2024 21:59	10903	COOP_T2	0	0	0	0	0	0	-0.44	-0.48	0	0	0	0	0	0
5/16/2024 22:00	12006	HATF_T1	0	0	0	0	0	0	0.94	-0.34	0	1	1	0	1200	1200
5/16/2024 22:00	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:00	10602	BLGL_T2	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
5/16/2024 22:00	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:00	62605	ENGL_T1	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
5/16/2024 22:00	63602	LETO_T1	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
5/16/2024 22:01	14203	EALL_T1	0	0	0	0	0	0	-0.37	-0.42	0	0	0	0	0	0
5/16/2024 22:01	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:02	60504	NMAN_T2	401	10	-391	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
5/16/2024 22:02	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0.42	0.34	0	0	0	0	0	0
5/16/2024 22:02	64901	MILL_T1	8	2	-6	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
5/16/2024 22:02	60502	NMAN_T2	1089	195	-894	0.56	0.21	-0.35	-0.28	-0.39	0	0	0	0	0	0
5/16/2024 22:02	60501	NMAN_T2	600	173	-427	0.66	0.34	-0.32	0	0	0	0	0	0	0	0
5/16/2024 22:02	14802	TREI_T2	9	0	-9	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/16/2024 22:02	64904	MILL_T1	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
5/16/2024 22:03	13303	ORVI_T1	0	0	0	0	0	0	0.93	0.75	0	0	0	0	0	0
5/16/2024 22:03	15703	TANN_T2	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
5/16/2024 22:03	15702	TANN_T2	8	20	12	0.1	0.12	0.02	-0.48	-0.5	0	0	0	0	0	0
5/16/2024 22:03	47802	MOCA_T2	0	0	0	0	0	0	0.35	0.27	0	0	0	0	0	0
5/16/2024 22:03	13701	SCHN_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
5/16/2024 22:03	13704	SCHN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:04	14402	SSLA_T1	22	0	-22	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/16/2024 22:04	14401	SSLA_T1	5	0	-5	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/16/2024 22:04	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/16/2024 22:04	67802	WLAN_T1	10	6	-4	0.14	0.12	-0.02	0	0	0	0	0	0	0	0
5/16/2024 22:04	14404	SSLA_T1	8	1	-7	1.04	5.5	4.46	0	-0.03	0	0	0	0	0	0
5/16/2024 22:04	67801	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:04	67804	WLAN_T1	16	24	8	0.11	0.11	0	-1.07	-1.08	0	0	0	0	0	0
5/16/2024 22:04	12505	MITR_T2	0	0	0	0	0	0	0.84	0.69	0	0	0	0	0	0
5/16/2024 22:04	67805	WLAN_T1	467	448	-19	0.38	0.38	0	0	0	0	0	0	0	0	0
5/16/2024 22:04	14603	SWHI_T1	0	0	0	0	0	0	-2.1	-2.12	0	0	0	0	0	0
5/16/2024 22:04	12502	MITR_T2	1	1	0	6	6.2	0.2	0	0	0	0	0	0	0	0
5/16/2024 22:04	67803	WLAN_T1	37	61	24	0.11	0.11	0	0	0	0	0	0	0	0	0
5/16/2024 22:04	16301	ALPA_T1	1	34	33	0.3	0.14	-0.16	-0.45	-0.46	0	0	0	0	0	0
5/16/2024 22:05	14402	SSLA_T1	22	0	-22	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/16/2024 22:05	12601	MACA_T1	0	0	0	0	0	0	0.66	0.62	0	0	0	0	0	0
5/16/2024 22:05	14401	SSLA_T1	5	0	-5	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/16/2024 22:05	14601	SWHI_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
5/16/2024 22:05	13303	ORVI_T1	0	0	0	0	0	0	0.93	0.75	0	0	0	0	0	0
5/16/2024 22:05	14404	SSLA_T1	8	1	-7	1.04	5.5	4.46	0	-0.03	0	0	0	0	0	0
5/16/2024 22:05	16902	MECK_T1	0	1	1	0	0	0	0.04	0.04	0	0	0	0	0	0
5/16/2024 22:05	63602	LETO_T1	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
5/16/2024 22:06	10901	COOP_T2	0	0	0	0	0	0	0.95	0.77	0	0	0	0	0	0
5/16/2024 22:06	11401	FARM_T1	0	0	0	0	0	0	0.56	0.44	0	0	0	0	0	0
5/16/2024 22:06	64902	MILL_T2	0	0	0	0	0	0	-0.65	-0.68	0	0	0	0	0	0
5/16/2024 22:06	64904	MILL_T1	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
5/16/2024 22:06	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:06	11405	FARM_T1	1	1	0	2.8	3.7	0.9	0	0	0	0	0	0	0	0
5/16/2024 22:06	64901	MILL_T1	8	2	-6	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
5/16/2024 22:07	17805	GILB_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
5/16/2024 22:07	14601	SWHI_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
5/16/2024 22:07	54203	PENN_T1	18	18	0	1.26	0.71	-0.55	0	0	0	0	0	0	0	0
5/16/2024 22:07	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/16/2024 22:07	54201	PENN_T1	11	8	-3	0.51	0.48	-0.03	0.5	0.42	0	0	0	0	0	0
5/16/2024 22:07	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:07	14802	TREI_T2	9	0	-9	0.14	0	-0.14	0.3	0.27	0	0	0	0	0	0
5/16/2024 22:07	13704	SCHN_T2	0	2	2	0	0.1	0.1	-0.44	-0.43	0	0	0	0	0	0
5/16/2024 22:08	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:08	67505	WEWI_T1	0	0	0	0	0	0	-0.26	-0.2	0	0	0	0	0	0
5/16/2024 22:08	52101	MEIS_T1	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
5/16/2024 22:08	12605	MACA_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
5/16/2024 22:08	62605	ENGL_T1	0	0	0	0	0	0	-0.76	-0.75	0	0	0	0	0	0
5/16/2024 22:08	20401	ASHF_T2	8	2	-6	0.6	0.4	-0.2	-0.34	-0.38	0	0	0	0	0	0
5/16/2024 22:08	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:08	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	0.04	0.04	0	0	0	0	0	0
5/16/2024 22:08	13302	ORVI_T2	9	0	-9	0.1	0	-0.1	1.39	0.1	0	0	0	0	0	0
5/16/2024 22:08	14203	EALL_T1	0	0	0	0	0	0	-0.37	-0.42	0	0	0	0	0	0
5/16/2024 22:08	14603	SWHI_T1	0	0	0	0	0	0	-1.05	-1.06	0	0	0	0	0	0
5/16/2024 22:08	12002	HATF_T1	0	1	1	0	0	0	0.16	0.15	0	0	0	0	0	0
5/16/2024 22:09	67804	WLAN_T1	16	24	8	0.11	0.11	0	-1.08	-1.09	0	0	0	0	0	0
5/16/2024 22:09	21204	ECAR_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
5/16/2024 22:09	13303	ORVI_T1	0	0	0	0	0	0	0.75	0.81	0	0	0	0	0	0
5/16/2024 22:09	67802	WLAN_T1	10	6	-4	0.14	0.12	-0.02	0	0	0	0	0	0	0	0
5/16/2024 22:09	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	3	3	0	2700	2700	0
5/16/2024 22:09	60504	NMAN_T2	401	10	-391	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
5/16/2024 22:09	15103	UPHA_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
5/16/2024 22:09	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:09	27502	WEIS_T2	0	0	0	0	0	0	-1.8	-0.48	0	0	0	0	0	0
5/16/2024 22:09	10903	COOP_T2	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
5/16/2024 22:09	15702	TANN_T2	8	20	12	0.1	0.12	0.02	-0.5	-0.44	0	0	0	0	0	0
5/16/2024 22:09	67803	WLAN_T1	37	61	24	0.11	0.11	0	0	0	0	0	0	0	0	0
5/16/2024 22:09	25402	LAHA_T2	0	0	0	0	0	0	-0.94	-0.92	0	0	0	0	0	0
5/16/2024 22:09	24102	EHAZ_T1	2	1	-1	0.95	0.2	-0.75	0	0	0	0	0	0	0	0
5/16/2024 22:09	48302	ORWI_T2	2	2	0	1.15	0.85	-0.3	0	0	0	0	0	0	0	0
5/16/2024 22:09	60502	NMAN_T2	1089	195	-894	0.56	0.21	-0.35	-0.39	-0.47	0	0	0	0	0	0
5/16/2024 22:09	67801	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:09	51302	WIND_T2	1	1	0	1.6	0.8	-0.8	0	0	0	0	0	0	0	0
5/16/2024 22:09	51304	WIND_T2	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
5/16/2024 22:09	24105	EHAZ_T1	4	4	0	6.6	5.88	-0.72	-0.71	-0.66	0	0	0	0	0	0
5/16/2024 22:09	67502	WEWI_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/16/2024 22:09	60501	NMAN_T2	600	173	-427	0.66	0.34	-0.32	0	0	0	0	0	0	0	0
5/16/2024 22:09	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:09	67503	WEWI_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
5/16/2024 22:09	21206	ECAR_T2	1	1	0	8.1	8.1	0	-0.11	-0.06	0	0	0	0	0	0
5/16/2024 22:09	67805	WLAN_T1	467	448	-19	0.38	0.38	0	0	0	0	0	0	0	0	0
5/16/2024 22:09	67703	WERN_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
5/16/2024 22:09	15703	TANN_T2	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
5/16/2024 22:10	20603	GRWO_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
5/16/2024 22:10	66203	SISP_T2	0	0	0	0	0	0	-1.19	-1.19	0	0	0	0	0	0
5/16/2024 22:10	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:10	49804	UNIV_T1	2	1	-1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
5/16/2024 22:10	67503	WEWI_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
5/16/2024 22:10	47401	PENS_T1	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
5/16/2024 22:10	20601	GRWO_T2	0	1	1	0	2	2	0	0	0	0	0	0	0	0
5/16/2024 22:10	67502	WEWI_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/16/2024 22:10	24501	GOUL_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
5/16/2024 22:10	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	1	1	0	900	900	0
5/16/2024 22:10	14603	SWHI_T1	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
5/16/2024 22:10	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
5/16/2024 22:10	17802	GILB_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
5/16/2024 22:10	17805	GILB_T2	0	0	0	0	0	0	0.05	0.07	0	0	0	0	0	0
5/16/2024 22:10	49803	UNIV_T1	0	0	0	0	0	0	-1.17	-1.23	0	0	0	0	0	0
5/16/2024 22:10	16402	MOPO_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
5/16/2024 22:10	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:11	28704	HAML_T2	1	1	0	1.1	1	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/16/2024 22:11	28703	HAML_T2	3	3	0	0.87	0.8	-0.07	0	0	0	0	0	0	0	0
5/16/2024 22:11	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	1	1	0	900	900	0
5/16/2024 22:11	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:11	67502	WEWI_T2	5	0	-5	0.1	0	-0.1	-0.48	-0.51	0	0	0	0	0	0
5/16/2024 22:11	45902	AUBU_T1	0	0	0	0	0	0	-0.43	-0.39	0	0	0	0	0	0
5/16/2024 22:11	24801	VALM_T1	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
5/16/2024 22:11	15001	BLMO_T1	4	4	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
5/16/2024 22:11	28702	HAML_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/16/2024 22:11	66703	STRA_T1	3	4	1	0.23	0.35	0.12	-0.4	-0.39	0	0	0	0	0	0
5/16/2024 22:12	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	1	1	0	900	900	0
5/16/2024 22:12	23202	HIRU_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
5/16/2024 22:12	56501	ROCK_T2	59	1	-58	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/16/2024 22:12	67805	WLAN_T1	467	448	-19	0.38	0.38	0	0	0	0	0	0	0	0	0
5/16/2024 22:12	15001	BLMO_T1	4	4	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
5/16/2024 22:12	67801	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:12	67802	WLAN_T1	10	6	-4	0.14	0.12	-0.02	0	0	0	0	0	0	0	0
5/16/2024 22:12	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:12	67803	WLAN_T1	37	61	24	0.11	0.11	0	-0.87	-0.88	0	0	0	0	0	0
5/16/2024 22:12	13103	NHAM_T2	0	0	0	0	0	0	-3.52	-3.52	0	0	0	0	0	0
5/16/2024 22:12	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:12	17805	GILB_T2	0	0	0	0	0	0	0.05	0.07	0	0	0	0	0	0
5/16/2024 22:12	45902	AUBU_T1	0	0	0	0	0	0	-0.87	-0.77	0	0	0	0	0	0
5/16/2024 22:12	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:12	67804	WLAN_T1	16	24	8	0.11	0.11	0	0	0	0	0	0	0	0	0
5/16/2024 22:12	67703	WERN_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
5/16/2024 22:12	10102	ALLE_T2	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:13	53901	HALI_T2	1	1	0	1	0.7	-0.3	-1.42	-1.41	0	0	0	0	0	0
5/16/2024 22:13	57006	WHHI_T2	3	0	-3	0.1	0	-0.1	0.66	0.78	0	0	0	0	0	0
5/16/2024 22:13	53903	HALI_T2	2	2	0	1.55	1.2	-0.35	0	0	0	0	0	0	0	0
5/16/2024 22:13	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/16/2024 22:13	51305	WIND_T1	0	0	0	0	0	0	0.1	0.14	0	0	0	0	0	0
5/16/2024 22:13	67804	WLAN_T1	16	24	8	0.11	0.11	0	-1.08	-1.09	0	0	0	0	0	0
5/16/2024 22:13	60501	NMAN_T2	600	173	-427	0.66	0.34	-0.32	0	0	0	0	0	0	0	0
5/16/2024 22:13	21206	ECAR_T2	1	1	0	8.1	8.1	0	-0.11	-0.06	0	0	0	0	0	0
5/16/2024 22:13	67801	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:13	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:13	67802	WLAN_T1	10	6	-4	0.14	0.12	-0.02	0	0	0	0	0	0	0	0
5/16/2024 22:13	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/16/2024 22:13	40802	EXCH_T2	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
5/16/2024 22:13	53902	HALI_T2	1	1	0	5.9	5.4	-0.5	0	0	0	0	0	0	0	0
5/16/2024 22:13	67505	WEWI_T1	0	0	0	0	0	0	-0.26	-0.2	0	0	0	0	0	0
5/16/2024 22:13	14401	SSLA_T1	5	0	-5	0.2	0	-0.2	-0.61	-0.61	0	0	0	0	0	0
5/16/2024 22:13	14402	SSLA_T1	22	0	-22	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/16/2024 22:13	67803	WLAN_T1	37	61	24	0.11	0.11	0	0	0	0	0	0	0	0	0
5/16/2024 22:13	60502	NMAN_T2	1089	195	-894	0.56	0.21	-0.35	0	0	0	0	0	0	0	0
5/16/2024 22:13	14404	SSLA_T1	8	1	-7	1.04	5.5	4.46	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/16/2024 22:13	45902	AUBU_T1	0	0	0	0	0	0	-0.43	-0.39	0	0	0	0	0	0
5/16/2024 22:13	63305	GREE_T1	3	1	-2	0.17	0.2	0.03	-1.19	-1.27	0	0	0	0	0	0
5/16/2024 22:13	67502	WEWI_T2	5	0	-5	0.1	0	-0.1	-0.48	-0.51	0	0	0	0	0	0
5/16/2024 22:13	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:13	60504	NMAN_T2	401	10	-391	0.3	0.17	-0.13	0.63	0.62	0	0	0	0	0	0
5/16/2024 22:13	67805	WLAN_T1	467	448	-19	0.38	0.38	0	-1.42	-1.47	0	0	0	0	0	0
5/16/2024 22:13	21204	ECAR_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
5/16/2024 22:14	43302	WATS_T2	4	4	0	0.73	0.35	-0.38	0	0	0	0	0	0	0	0
5/16/2024 22:14	57403	SPAN_T1	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
5/16/2024 22:14	23203	HIRU_T2	0	0	0	0	0	0	-0.16	-0.07	0	0	0	0	0	0
5/16/2024 22:14	16201	POPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:14	60101	COCA_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
5/16/2024 22:14	52502	PROG_T2	0	0	0	0	0	0	-0.57	-0.59	1	1	0	900	900	0
5/16/2024 22:14	53902	HALI_T2	1	1	0	5.9	5.4	-0.5	0	0	0	0	0	0	0	0
5/16/2024 22:14	57404	SPAN_T2	0	0	0	0	0	0	0.41	0.36	0	0	0	0	0	0
5/16/2024 22:14	67605	WARW_T1	39	15	-24	0.66	0.66	0	0	0	0	0	0	0	0	0
5/16/2024 22:14	53903	HALI_T2	2	2	0	1.55	1.2	-0.35	0	0	0	0	0	0	0	0
5/16/2024 22:14	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:14	40302	TAMA_T3	1	0	-1	0.2	0	-0.2	0.09	0.11	0	0	0	0	0	0
5/16/2024 22:14	45501	DERR_T2	1	0	-1	0.5	0	-0.5	-0.18	-0.1	0	0	0	0	0	0
5/16/2024 22:14	56802	BENV_T2	718	85	-633	0.35	0.18	-0.17	-3.99	-4.08	0	0	0	0	0	0
5/16/2024 22:14	43301	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:14	46101	MACI_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
5/16/2024 22:14	57401	SPAN_T1	0	2	2	0	0.25	0.25	-0.93	-0.9	0	0	0	0	0	0
5/16/2024 22:14	67001	STHI_T2	75	0	-75	0.1	0	-0.1	0.05	0.05	0	0	0	0	0	0
5/16/2024 22:14	53901	HALI_T2	1	1	0	1	0.7	-0.3	-1.42	-1.41	0	0	0	0	0	0
5/16/2024 22:14	50701	SMEC_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
5/16/2024 22:14	45902	AUBU_T1	0	0	0	0	0	0	-0.43	-0.39	0	0	0	0	0	0
5/16/2024 22:14	40101	HUNT_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
5/16/2024 22:14	67603	WARW_T1	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
5/16/2024 22:14	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:15	15702	TANN_T2	0	25	25	0	0.12	0.12	-0.5	-0.44	0	0	0	0	0	0
5/16/2024 22:15	53901	HALI_T2	1	1	0	0.1	0.9	0.8	-2.84	-2.82	0	0	0	0	0	0
5/16/2024 22:15	67802	WLAN_T1	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0	0
5/16/2024 22:15	41202	KENM_T2	1	1	0	0.5	0.8	0.3	0.6	0.56	0	0	0	0	0	0
5/16/2024 22:15	53903	HALI_T2	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
5/16/2024 22:15	46903	MNTG_T2	0	1	1	0	0.1	0.1	-0.12	-0.16	0	0	0	0	0	0
5/16/2024 22:15	60502	NMAN_T2	195	1	-194	0.21	0.1	-0.11	-0.39	-0.47	0	0	0	0	0	0
5/16/2024 22:15	43504	WWIL_T1	15	15	0	0.57	0.72	0.15	0.56	0.56	0	0	0	0	0	0
5/16/2024 22:15	62104	ELAN_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
5/16/2024 22:15	60101	COCA_T1	0	0	0	0	0	0	0.46	0.42	0	0	0	0	0	0
5/16/2024 22:15	60504	NMAN_T2	10	0	-10	0.17	0	-0.17	0	0	0	0	0	0	0	0
5/16/2024 22:15	45501	DERR_T2	0	0	0	0	0	0	-0.18	-0.1	0	0	0	0	0	0
5/16/2024 22:15	56802	BENV_T2	85	20	-65	0.18	0.17	-0.01	-2.66	-2.72	0	0	0	0	0	0
5/16/2024 22:15	43105	SMIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:15	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
5/16/2024 22:15	67803	WLAN_T1	11	59	48	0.11	0.11	0	-0.87	-0.88	0	0	0	0	0	0
5/16/2024 22:15	67804	WLAN_T1	15	18	3	0.11	0.11	0	-1.08	-1.09	0	0	0	0	0	0
5/16/2024 22:15	15703	TANN_T2	1	1	0	5	4.8	-0.2	0	0	0	0	0	0	0	0
5/16/2024 22:15	43506	WWIL_T1	4	8	4	0.6	0.41	-0.19	0	0	0	0	0	0	0	0
5/16/2024 22:15	67801	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:15	63404	HONY_T1	36	99	63	0.22	0.24	0.02	0	0	0	0	0	0	0	0
5/16/2024 22:15	45901	AUBU_T1	0	0	0	0	0	0	1.78	1.78	0	0	0	0	0	0
5/16/2024 22:15	67502	WEWI_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
5/16/2024 22:15	65503	MOJO_T2	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
5/16/2024 22:15	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:15	57205	ROSS_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
5/16/2024 22:15	43505	WWIL_T1	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:15	43102	SMIL_T2	6	6	0	0.38	0.45	0.07	-0.3	-0.29	0	0	0	0	0	0
5/16/2024 22:15	67805	WLAN_T1	438	429	-9	0.37	0.37	0	0	0	0	0	0	0	0	0
5/16/2024 22:15	60501	NMAN_T2	173	3	-170	0.34	6.6	6.26	0	0	0	0	0	0	0	0
5/16/2024 22:15	23203	HIRU_T2	0	0	0	0	0	0	-0.16	-0.07	0	0	0	0	0	0
5/16/2024 22:15	24702	FLND_T2	0	0	0	0	0	0	0.73	0.82	0	0	0	0	0	0
5/16/2024 22:15	56501	ROCK_T2	0	2	2	0	0.2	0.2	167.92	167.92	0	0	0	0	0	0
5/16/2024 22:15	43103	SMIL_T2	21	21	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
5/16/2024 22:15	63401	HONY_T1	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
5/16/2024 22:15	54601	SUMM_T2	2	4	2	0.25	0.3	0.05	-1.84	-1.83	0	0	0	0	0	0
5/16/2024 22:15	62106	ELAN_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
5/16/2024 22:16	67801	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:16	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
5/16/2024 22:16	51303	WIND_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:16	54601	SUMM_T2	2	4	2	0.25	0.3	0.05	-1.84	-1.83	0	0	0	0	0	0
5/16/2024 22:16	60502	NMAN_T2	195	1	-194	0.21	0.1	-0.11	-0.77	-0.93	0	0	0	0	0	0
5/16/2024 22:16	51102	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:16	56801	BENV_T1	8	7	-1	0.49	0.4	-0.09	-0.45	-0.51	0	0	0	0	0	0
5/16/2024 22:16	60801	BUCK_T1	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
5/16/2024 22:16	67604	WARW_T1	0	0	0	0	0	0	0.55	0.47	0	0	0	0	0	0
5/16/2024 22:16	64902	MILL_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
5/16/2024 22:16	41802	COCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:16	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/16/2024 22:16	60501	NMAN_T2	173	3	-170	0.34	6.6	6.26	0	0	0	0	0	0	0	0
5/16/2024 22:16	47001	HUGH_T2	0	0	0	0	0	0	-0.27	-0.26	0	0	0	0	0	0
5/16/2024 22:16	53903	HALI_T2	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
5/16/2024 22:16	24201	PROV_T3	1	1	0	7.3	7.3	0	-0.16	-0.19	0	0	0	0	0	0
5/16/2024 22:16	56802	BENV_T2	85	20	-65	0.18	0.17	-0.01	-3.99	-4.08	0	0	0	0	0	0
5/16/2024 22:16	67803	WLAN_T1	11	59	48	0.11	0.11	0	-0.87	-0.88	0	0	0	0	0	0
5/16/2024 22:16	54203	PENN_T1	18	18	0	0.69	0.69	0	0.73	0.8	0	0	0	0	0	0
5/16/2024 22:16	14603	SWHI_T1	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
5/16/2024 22:16	62102	ELAN_T1	0	0	0	0	0	0	0.65	0.92	0	0	0	0	0	0
5/16/2024 22:16	63804	HEMP_T1	5	1	-4	1.18	5.2	4.02	0	0	0	0	0	0	0	0
5/16/2024 22:16	57205	ROSS_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
5/16/2024 22:16	24204	PROV_T3	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
5/16/2024 22:16	63803	HEMP_T1	21	0	-21	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/16/2024 22:16	63801	HEMP_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/16/2024 22:16	67802	WLAN_T1	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0	0
5/16/2024 22:16	53901	HALI_T2	1	1	0	0.1	0.9	0.8	-1.42	-1.41	0	0	0	0	0	0
5/16/2024 22:16	58006	WCAR_T2	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
5/16/2024 22:16	51101	CARL_T1	0	0	0	0	0	0	-1.38	-1.42	0	0	0	0	0	0
5/16/2024 22:16	67805	WLAN_T1	438	429	-9	0.37	0.37	0	0	0	0	0	0	0	0	0
5/16/2024 22:16	67804	WLAN_T1	15	18	3	0.11	0.11	0	0	0	0	0	0	0	0	0
5/16/2024 22:16	56501	ROCK_T2	0	2	2	0	0.2	0.2	167.92	167.92	0	0	0	0	0	0
5/16/2024 22:16	54201	PENN_T1	4	8	4	0.58	0.51	-0.07	0	0	0	0	0	0	0	0
5/16/2024 22:16	60504	NMAN_T2	10	0	-10	0.17	0	-0.17	0	0	0	0	0	0	0	0
5/16/2024 22:16	63802	HEMP_T1	0	0	0	0	0	0	0.24	0.28	0	0	0	0	0	0
5/16/2024 22:16	56803	BENV_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
5/16/2024 22:16	67605	WARW_T1	15	13	-2	0.66	0.2	-0.46	0	0	0	0	0	0	0	0
5/16/2024 22:17	61501	EPET_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
5/16/2024 22:17	67204	TEHI_T2	0	0	0	0	0	0	0.03	-0.3	0	0	0	0	0	0
5/16/2024 22:17	62105	ELAN_T1	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
5/16/2024 22:17	54501	ENOL_T2	2	4	2	0.1	0.18	0.08	0	0	0	0	0	0	0	0
5/16/2024 22:17	60502	NMAN_T2	195	1	-194	0.21	0.1	-0.11	-0.77	-0.93	0	0	0	0	0	0
5/16/2024 22:17	23203	HIRU_T2	0	0	0	0	0	0	-0.16	-0.07	0	0	0	0	0	0
5/16/2024 22:17	61801	EELI_T2	0	1	1	0	0.3	0.3	-1.92	-2.02	0	0	0	0	0	0
5/16/2024 22:17	67603	WARW_T1	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
5/16/2024 22:17	22003	BOHE_T1	154	197	43	0.2	0.23	0.03	0	0	0	0	0	0	0	0
5/16/2024 22:17	60501	NMAN_T2	173	3	-170	0.34	6.6	6.26	0	0	0	0	0	0	0	0
5/16/2024 22:17	45901	AUBU_T1	0	0	0	0	0	0	1.78	1.78	0	0	0	0	0	0
5/16/2024 22:17	22002	BOHE_T1	7	7	0	0.19	0.3	0.11	0.29	0.33	0	0	0	0	0	0
5/16/2024 22:17	24202	PROV_T4	0	0	0	0	0	0	0.13	0.2	0	0	0	0	0	0
5/16/2024 22:17	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
5/16/2024 22:17	52501	PROG_T1	0	0	0	0	0	0	0.28	0.18	0	0	0	0	0	0
5/16/2024 22:17	61506	EPET_T2	0	0	0	0	0	0	-1.19	-1.26	0	0	0	0	0	0
5/16/2024 22:17	67605	WARW_T1	15	13	-2	0.66	0.2	-0.46	-1.19	-1.24	0	0	0	0	0	0
5/16/2024 22:17	56501	ROCK_T2	0	2	2	0	0.2	0.2	83.96	83.96	0	0	0	0	0	0
5/16/2024 22:17	29402	BELT_T1	1	1	0	8	8.6	0.6	0	0	0	0	0	0	0	0
5/16/2024 22:17	14603	SWHI_T1	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
5/16/2024 22:17	60504	NMAN_T2	10	0	-10	0.17	0	-0.17	0	0	0	0	0	0	0	0
5/16/2024 22:17	54502	ENOL_T2	0	1	1	0	0.4	0.4	-1.15	-1.14	0	0	0	0	0	0
5/16/2024 22:17	22001	BOHE_T1	170	253	83	0.2	0.2	0	0	0	0	0	0	0	0	0
5/16/2024 22:17	29401	BELT_T1	0	14	14	0	0.11	0.11	0	0	1	1	0	900	900	0
5/16/2024 22:18	67204	TEHI_T2	0	0	0	0	0	0	0.03	-0.3	0	0	0	0	0	0
5/16/2024 22:18	60502	NMAN_T2	195	1	-194	0.21	0.1	-0.11	-0.39	-0.47	0	0	0	0	0	0
5/16/2024 22:18	42701	AUGU_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/16/2024 22:18	67203	TEHI_T1	0	0	0	0	0	0	1.63	1.6	0	1	1	0	900	900
5/16/2024 22:18	56802	BENV_T2	85	20	-65	0.18	0.17	-0.01	-1.33	-1.36	0	0	0	0	0	0
5/16/2024 22:18	67804	WLAN_T1	15	18	3	0.11	0.11	0	0	0	0	0	0	0	0	0
5/16/2024 22:18	60501	NMAN_T2	173	3	-170	0.34	6.6	6.26	0	0	0	0	0	0	0	0
5/16/2024 22:18	52101	MEIS_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
5/16/2024 22:18	60504	NMAN_T2	10	0	-10	0.17	0	-0.17	0	0	0	0	0	0	0	0
5/16/2024 22:18	67801	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:18	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:18	67803	WLAN_T1	11	59	48	0.11	0.11	0	-0.87	-0.88	0	0	0	0	0	0
5/16/2024 22:18	67802	WLAN_T1	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0	0
5/16/2024 22:18	57203	ROSS_T1	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
5/16/2024 22:18	64902	MILL_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
5/16/2024 22:18	67805	WLAN_T1	438	429	-9	0.37	0.37	0	0	0	0	0	0	0	0	0
5/16/2024 22:18	62607	ENGL_T1	1	0	-1	0.2	0	-0.2	-0.75	-0.79	0	0	0	0	0	0
5/16/2024 22:18	54202	PENN_T2	0	0	0	0	0	0	0.59	0.65	0	0	0	0	0	0
5/16/2024 22:18	60201	ATGL_T2	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
5/16/2024 22:18	59101	WALK_T2	0	1	1	0	0	0	1	0.97	0	0	0	0	0	0
5/16/2024 22:18	43801	SWIL_T1	13	31	18	0.58	0.38	-0.2	0	0	0	0	0	0	0	0
5/16/2024 22:18	43802	SWIL_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
5/16/2024 22:19	64801	MONE_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/16/2024 22:19	57006	WHHI_T2	0	0	0	0	0	0	0.66	0.78	0	0	0	0	0	0
5/16/2024 22:19	24102	EHAZ_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/16/2024 22:19	60502	NMAN_T2	195	1	-194	0.21	0.1	-0.11	-0.39	-0.47	0	0	0	0	0	0
5/16/2024 22:19	67604	WARW_T1	0	0	0	0	0	0	0.55	0.47	0	0	0	0	0	0
5/16/2024 22:19	60501	NMAN_T2	173	3	-170	0.34	6.6	6.26	0	0	0	0	0	0	0	0
5/16/2024 22:19	22002	BOHE_T1	7	7	0	0.19	0.3	0.11	0	0	0	0	0	0	0	0
5/16/2024 22:19	67805	WLAN_T1	438	429	-9	0.37	0.37	0	0	0	0	0	0	0	0	0
5/16/2024 22:19	61703	ELIZ_T1	0	0	0	0	0	0	-2.36	-2.39	0	0	0	0	0	0
5/16/2024 22:19	67605	WARW_T1	15	13	-2	0.66	0.2	-0.46	-1.19	-1.24	0	0	0	0	0	0
5/16/2024 22:19	15001	BLMO_T1	4	4	0	0.35	0.78	0.43	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/16/2024 22:19	20403	ASHF_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/16/2024 22:19	59201	THOM_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/16/2024 22:19	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
5/16/2024 22:19	52502	PROG_T2	0	0	0	0	0	0	-0.57	-0.59	1	1	0	900	900	0
5/16/2024 22:19	64101	REFR_T1	0	0	0	0	0	0	-0.53	-0.61	0	0	0	0	0	0
5/16/2024 22:19	45902	AUBU_T1	0	0	0	0	0	0	-0.43	-0.39	0	0	0	0	0	0
5/16/2024 22:19	14802	TREI_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
5/16/2024 22:19	42501	ALTA_T2	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
5/16/2024 22:19	53901	HALI_T2	1	1	0	0.1	0.9	0.8	-1.42	-1.41	0	0	0	0	0	0
5/16/2024 22:19	22001	BOHE_T1	170	253	83	0.2	0.2	0	0.21	0.23	0	0	0	0	0	0
5/16/2024 22:19	21204	ECAR_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/16/2024 22:19	56501	ROCK_T2	0	2	2	0	0.2	0.2	83.96	83.96	0	0	0	0	0	0
5/16/2024 22:19	21206	ECAR_T2	1	1	0	8.1	8	-0.1	-0.11	-0.06	0	0	0	0	0	0
5/16/2024 22:19	67804	WLAN_T1	15	18	3	0.11	0.11	0	0	0	0	0	0	0	0	0
5/16/2024 22:19	67802	WLAN_T1	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0	0
5/16/2024 22:19	60504	NMAN_T2	10	0	-10	0.17	0	-0.17	0	0	0	0	0	0	0	0
5/16/2024 22:19	20401	ASHF_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
5/16/2024 22:19	67801	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:19	55101	WERT_T1	0	0	0	0	0	0	-1.33	-1.37	1	1	0	600	600	0
5/16/2024 22:19	64602	LEOL_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
5/16/2024 22:19	54501	ENOL_T2	2	4	2	0.1	0.18	0.08	0	0	0	0	0	0	0	0
5/16/2024 22:19	58003	WCAR_T1	1	22	21	1.9	0.2	-1.7	0.65	0.64	0	0	0	0	0	0
5/16/2024 22:19	58001	WCAR_T1	4	4	0	1.4	1.58	0.18	0	0	0	0	0	0	0	0
5/16/2024 22:19	67803	WLAN_T1	11	59	48	0.11	0.11	0	-0.87	-0.88	0	0	0	0	0	0
5/16/2024 22:19	40602	PIGR_T1	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0
5/16/2024 22:19	26603	BROO_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
5/16/2024 22:19	59202	THOM_T1	13	0	-13	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/16/2024 22:19	54502	ENOL_T2	0	1	1	0	0.4	0.4	-1.15	-1.14	0	0	0	0	0	0
5/16/2024 22:19	22003	BOHE_T1	154	197	43	0.2	0.23	0.03	0	0	0	0	0	0	0	0
5/16/2024 22:19	63305	GREE_T1	1	1	0	0.1	0.2	0.1	-1.19	-1.27	0	0	0	0	0	0
5/16/2024 22:19	64802	MONE_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
5/16/2024 22:19	53903	HALI_T2	2	2	0	1	1.2	0.2	-0.39	-0.41	0	0	0	0	0	0
5/16/2024 22:19	56802	BENV_T2	85	20	-65	0.18	0.17	-0.01	-2.66	-2.72	0	0	0	0	0	0
5/16/2024 22:19	24105	EHAZ_T1	4	4	0	6.48	5.85	-0.63	0	0	0	0	0	0	0	0
5/16/2024 22:19	59301	MCAL_T1	2	2	0	0.5	0.3	-0.2	-1.15	-1.14	0	0	0	0	0	0
5/16/2024 22:19	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
5/16/2024 22:19	61701	ELIZ_T1	1	1	0	4.8	5.5	0.7	0	0	0	0	0	0	0	0
5/16/2024 22:19	24103	EHAZ_T1	0	0	0	0	0	0	-0.65	-0.59	0	0	0	0	0	0
5/16/2024 22:19	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:20	67605	WARW_T1	15	13	-2	0.66	0.2	-0.46	-2.38	-2.48	0	0	0	0	0	0
5/16/2024 22:20	49803	UNIV_T1	0	0	0	0	0	0	-1.17	-1.23	0	0	0	0	0	0
5/16/2024 22:20	63803	HEMP_T1	21	0	-21	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/16/2024 22:20	62605	ENGL_T1	0	0	0	0	0	0	-0.76	-0.75	0	0	0	0	0	0
5/16/2024 22:20	57205	ROSS_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
5/16/2024 22:20	60101	COCA_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
5/16/2024 22:20	58003	WCAR_T1	1	22	21	1.9	0.2	-1.7	0.65	0.64	0	0	0	0	0	0
5/16/2024 22:20	53903	HALI_T2	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
5/16/2024 22:20	40802	EXCH_T2	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
5/16/2024 22:20	46004	BERW_T2	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
5/16/2024 22:20	43301	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:20	42501	ALTA_T2	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
5/16/2024 22:20	20603	GRWO_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
5/16/2024 22:20	61306	EARL_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
5/16/2024 22:20	60801	BUCK_T1	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
5/16/2024 22:20	62102	ELAN_T1	0	0	0	0	0	0	0.65	0.92	0	0	0	0	0	0
5/16/2024 22:20	52402	GRPA_T2	4	4	0	0.68	0.45	-0.23	0	0	0	0	0	0	0	0
5/16/2024 22:20	60503	MOJO_T2	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
5/16/2024 22:20	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
5/16/2024 22:20	29401	BELT_T1	0	14	14	0	0.11	0.11	0	0	1	1	0	900	900	0
5/16/2024 22:20	61302	EARL_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
5/16/2024 22:20	57304	MOAL_T2	0	1	1	0	0.3	0.3	-0.47	-0.49	0	0	0	0	0	0
5/16/2024 22:20	53901	HALI_T2	1	1	0	0.1	0.9	0.8	-1.42	-1.41	0	0	0	0	0	0
5/16/2024 22:20	63801	HEMP_T1	2	0	-2	0.15	0	-0.15	0.07	0.15	0	0	0	0	0	0
5/16/2024 22:20	62607	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/16/2024 22:20	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:20	29402	BELT_T1	1	1	0	8	8.6	0.6	0	0	0	0	0	0	0	0
5/16/2024 22:20	57303	MOAL_T2	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
5/16/2024 22:20	57203	ROSS_T1	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
5/16/2024 22:20	49804	UNIV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/16/2024 22:20	57403	SPAN_T1	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
5/16/2024 22:20	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
5/16/2024 22:20	45501	DERR_T2	0	0	0	0	0	0	-0.18	-0.1	0	0	0	0	0	0
5/16/2024 22:20	56501	ROCK_T2	0	2	2	0	0.2	0.2	83.96	83.96	0	0	0	0	0	0
5/16/2024 22:20	43302	WATS_T2	4	4	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:20	56802	BENV_T2	85	20	-65	0.18	0.17	-0.01	-1.33	-1.36	0	0	0	0	0	0
5/16/2024 22:20	40801	EXCH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:20	58402	MORO_T1	0	0	0	0	0	0	-0.29	-0.35	0	0	0	0	0	0
5/16/2024 22:20	67703	WERN_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
5/16/2024 22:20	24702	FLND_T2	0	0	0	0	0	0	0.73	0.82	0	0	0	0	0	0
5/16/2024 22:20	63804	HEMP_T1	5	1	-4	1.18	5.2	4.02	0	0	0	0	0	0	0	0
5/16/2024 22:20	57401	SPAN_T1	0	2	2	0	0.25	0.25	-1.86	-1.8	0	0	0	0	0	0
5/16/2024 22:20	20601	GRWO_T2	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
5/16/2024 22:20	55002	NEWP_T1	5	3	-2	0.54	0.4	-0.14	-0.26	-0.27	0	0	0	0	0	0
5/16/2024 22:20	58001	WCAR_T1	4	4	0	1.4	1.58	0.18	0	0	0	0	0	0	0	0
5/16/2024 22:20	63305	GREE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:20	52403	GRPA_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
5/16/2024 22:20	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
5/16/2024 22:20	63304	GREE_T1	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
5/16/2024 22:20	45902	AUBU_T1	0	0	0	0	0	0	-0.43	-0.39	0	0	0	0	0	0
5/16/2024 22:20	13704	SCHN_T2	0	3	3	0	0.1	0.1	-0.43	-0.42	0	0	0	0	0	0
5/16/2024 22:21	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:21	50701	SMEC_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
5/16/2024 22:21	61703	ELIZ_T1	0	0	0	0	0	0	-4.72	-4.78	0	0	0	0	0	0
5/16/2024 22:21	43301	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:21	40702	FFLD_T1	49	124	75	0.19	0.31	0.12	0	0	0	0	0	0	0	0
5/16/2024 22:21	54201	PENN_T1	4	8	4	0.58	0.51	-0.07	0	0	0	0	0	0	0	0
5/16/2024 22:21	53601	DALM_T2	1	1	0	0.3	0.4	0.1	-0.45	-0.29	0	0	0	0	0	0
5/16/2024 22:21	63404	HONY_T1	36	99	63	0.22	0.24	0.02	0	0	0	0	0	0	0	0
5/16/2024 22:21	56802	BENV_T2	85	20	-65	0.18	0.17	-0.01	-1.33	-1.36	0	0	0	0	0	0
5/16/2024 22:21	67502	WEWI_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
5/16/2024 22:21	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
5/16/2024 22:21	59301	MCAL_T1	2	2	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/16/2024 22:21	53903	HALI_T2	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
5/16/2024 22:21	40801	EXCH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:21	54203	PENN_T1	18	18	0	0.69	0.69	0	0.73	0.8	0	0	0	0	0	0
5/16/2024 22:21	46501	LOHA_T1	0	0	0	0	0	0	0.15	0.05	0	0	0	0	0	0
5/16/2024 22:21	42902	MIDD_T2	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
5/16/2024 22:21	40802	EXCH_T2	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
5/16/2024 22:21	57302	MOAL_T2	0	0	0	0	0	0	-1.53	-1.57	0	0	0	0	0	0
5/16/2024 22:21	60902	DONG_T2	0	0	0	0	0	0	0.74	0.7	0	0	0	0	0	0
5/16/2024 22:21	45602	WOOL_T1	1	1	0	0.2	0.4	0.2	0.94	0.92	0	0	0	0	0	0
5/16/2024 22:21	47001	HUGH_T2	0	0	0	0	0	0	-0.27	-0.26	0	0	0	0	0	0
5/16/2024 22:21	40703	FFLD_T1	4	4	0	0.38	0.53	0.15	0.34	0.33	0	0	0	0	0	0
5/16/2024 22:21	65503	MOJO_T2	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
5/16/2024 22:21	40701	FFLD_T1	32	60	28	0.54	0.5	-0.04	0	0	0	0	0	0	0	0
5/16/2024 22:21	58102	NEKI_T1	1	1	0	0.1	0.3	0.2	0.42	0.51	0	0	0	0	0	0
5/16/2024 22:21	61701	ELIZ_T1	1	1	0	4.8	5.5	0.7	0	0	0	0	0	0	0	0
5/16/2024 22:21	41502	FAIR_T2	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
5/16/2024 22:21	59302	MCAL_T1	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
5/16/2024 22:21	42802	SELI_T1	0	1	1	0	0.3	0.3	-0.02	0	0	0	0	0	0	0
5/16/2024 22:21	67501	WEWI_T1	0	0	0	0	0	0	-0.58	-0.63	0	0	0	0	0	0
5/16/2024 22:21	13704	SCHN_T2	0	3	3	0	0.1	0.1	-0.43	-0.42	0	0	0	0	0	0
5/16/2024 22:21	53901	HALI_T2	1	1	0	0.1	0.9	0.8	-1.42	-1.41	0	0	0	0	0	0
5/16/2024 22:21	46504	LOHA_T1	2	2	0	0.95	0.55	-0.4	0	0	0	0	0	0	0	0
5/16/2024 22:21	60801	BUCK_T1	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
5/16/2024 22:21	40601	PIGR_T1	0	0	0	0	0	0	-0.18	-0.12	0	0	0	0	0	0
5/16/2024 22:21	57304	MOAL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/16/2024 22:21	50501	MECH_T1	3	4	1	0.27	0.78	0.51	0	0	0	0	0	0	0	0
5/16/2024 22:21	50506	MECH_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
5/16/2024 22:21	52501	PROG_T1	0	0	0	0	0	0	0.55	0.37	0	0	0	0	0	0
5/16/2024 22:21	63401	HONY_T1	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
5/16/2024 22:21	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:21	51303	WIND_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:21	43302	WATS_T2	4	4	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:21	57303	MOAL_T2	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
5/16/2024 22:21	50502	MECH_T1	1	1	0	2	2.3	0.3	0	0	0	0	0	0	0	0
5/16/2024 22:22	63302	GREE_T1	0	0	0	0	0	0	0.42	0.3	0	0	0	0	0	0
5/16/2024 22:22	62607	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/16/2024 22:22	40901	JESH_T1	44	60	16	0.17	0.18	0.01	0	0	0	0	0	0	0	0
5/16/2024 22:22	60101	COCA_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
5/16/2024 22:22	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:22	63304	GREE_T1	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
5/16/2024 22:22	45901	AUBU_T1	0	0	0	0	0	0	1.78	1.78	0	0	0	0	0	0
5/16/2024 22:22	50502	MECH_T1	1	1	0	2	2.3	0.3	0	0	0	0	0	0	0	0
5/16/2024 22:22	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:22	63305	GREE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:22	64601	LEOL_T1	0	0	0	0	0	0	-0.43	-0.5	0	0	0	0	0	0
5/16/2024 22:22	44503	HAMI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:22	26603	BROO_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
5/16/2024 22:22	44505	HAMI_T2	0	0	0	0	0	0	0.55	0.5	0	0	0	0	0	0
5/16/2024 22:22	56501	ROCK_T2	0	2	2	0	0.2	0.2	167.92	167.92	0	0	0	0	0	0
5/16/2024 22:22	50506	MECH_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
5/16/2024 22:22	62602	ENGL_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
5/16/2024 22:22	52401	GRPA_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
5/16/2024 22:22	40903	JESH_T1	0	33	33	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:22	44502	HAMI_T2	1	1	0	3.6	3.8	0.2	0	0	0	0	0	0	0	0
5/16/2024 22:22	45402	WBLO_T2	2	6	4	1.45	0.68	-0.77	-1.8	-1.84	0	0	0	0	0	0
5/16/2024 22:22	56802	BENV_T2	85	20	-65	0.18	0.17	-0.01	-1.33	-1.36	0	0	0	0	0	0
5/16/2024 22:22	45602	WOOL_T1	1	1	0	0.2	0.4	0.2	0.47	0.46	0	0	0	0	0	0
5/16/2024 22:22	40902	JESH_T1	30	123	93	0.13	0.14	0.01	-1.6	-1.51	0	0	0	0	0	0
5/16/2024 22:22	50501	MECH_T1	3	4	1	0.27	0.78	0.51	0	0	0	0	0	0	0	0
5/16/2024 22:22	52402	GRPA_T2	4	4	0	0.68	0.45	-0.23	0	0	0	0	0	0	0	0
5/16/2024 22:23	50501	MECH_T1	3	4	1	0.27	0.78	0.51	0.01	0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/16/2024 22:23	52401	GRPA_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
5/16/2024 22:23	50502	MECH_T1	1	1	0	2	2.3	0.3	0	0	0	0	0	0	0	0
5/16/2024 22:23	58001	WCAR_T1	4	4	0	1.4	1.58	0.18	0	0	0	0	0	0	0	0
5/16/2024 22:23	52402	GRPA_T2	4	4	0	0.68	0.45	-0.23	0	0	0	0	0	0	0	0
5/16/2024 22:23	55002	NEWP_T1	5	3	-2	0.54	0.4	-0.14	-0.27	-0.27	0	0	0	0	0	0
5/16/2024 22:23	58003	WCAR_T1	1	22	21	1.9	0.2	-1.7	0.64	0.65	0	0	0	0	0	0
5/16/2024 22:23	41002	LAUR_T2	59	61	2	0.66	0.81	0.15	0.04	0.05	0	0	0	0	0	0
5/16/2024 22:23	42503	ALTA_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
5/16/2024 22:23	52502	PROG_T2	0	0	0	0	0	0	-0.59	-0.63	1	1	0	900	900	0
5/16/2024 22:23	56802	BENV_T2	85	20	-65	0.18	0.17	-0.01	-1.36	-1.41	0	0	0	0	0	0
5/16/2024 22:23	17805	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:23	61404	SLIT_T1	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
5/16/2024 22:23	41001	LAUR_T2	84	98	14	0.65	0.67	0.02	0	0	0	0	0	0	0	0
5/16/2024 22:23	17804	GILB_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
5/16/2024 22:23	67401	WAKE_T2	0	0	0	0	0	0	-1.08	-1.1	0	0	0	0	0	0
5/16/2024 22:24	40902	JESH_T1	30	123	93	0.13	0.14	0.01	-0.75	-0.78	0	0	0	0	0	0
5/16/2024 22:24	51303	WIND_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:24	40601	PIGR_T1	0	0	0	0	0	0	-0.12	-0.18	0	0	0	0	0	0
5/16/2024 22:24	67805	WLAN_T1	438	429	-9	0.37	0.37	0	-1.47	-1.49	0	0	0	0	0	0
5/16/2024 22:24	65904	SAKR_T2	0	0	0	0	0	0	-1.36	-1.67	1	1	0	600	600	0
5/16/2024 22:24	40101	HUNT_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
5/16/2024 22:24	58402	MORO_T1	0	0	0	0	0	0	-0.35	-0.39	0	0	0	0	0	0
5/16/2024 22:24	40903	JESH_T1	0	33	33	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:24	67802	WLAN_T1	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0	0
5/16/2024 22:24	42902	MIDD_T2	0	0	0	0	0	0	-1.02	-1.06	0	0	0	0	0	0
5/16/2024 22:24	56802	BENV_T2	85	20	-65	0.18	0.17	-0.01	-1.36	-1.41	0	0	0	0	0	0
5/16/2024 22:24	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:24	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:24	52402	GRPA_T2	4	4	0	0.68	0.45	-0.23	0	0	0	0	0	0	0	0
5/16/2024 22:24	67804	WLAN_T1	15	18	3	0.11	0.11	0	-1.09	-1.12	0	0	0	0	0	0
5/16/2024 22:24	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:24	67901	WNHO_T2	5	0	-5	0.1	0	-0.1	-0.42	-0.38	0	0	0	0	0	0
5/16/2024 22:24	67803	WLAN_T1	11	59	48	0.11	0.11	0	0	0	0	0	0	0	0	0
5/16/2024 22:24	43302	WATS_T2	4	4	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:24	67801	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:24	52403	GRPA_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
5/16/2024 22:24	42201	SHEN_T2	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
5/16/2024 22:24	65901	SAKR_T2	1	1	0	9.1	8.6	-0.5	0	0	0	0	0	0	0	0
5/16/2024 22:24	59201	THOM_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/16/2024 22:24	59202	THOM_T1	13	0	-13	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/16/2024 22:24	23001	SAJO_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
5/16/2024 22:24	40901	JESH_T1	44	60	16	0.17	0.18	0.01	0	0	0	0	0	0	0	0
5/16/2024 22:25	63404	HONY_T1	36	99	63	0.22	0.24	0.02	0	0	0	0	0	0	0	0
5/16/2024 22:25	53901	HALI_T2	1	1	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
5/16/2024 22:25	43704	WILL_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
5/16/2024 22:25	40601	PIGR_T1	0	0	0	0	0	0	-0.12	-0.18	0	0	0	0	0	0
5/16/2024 22:25	56802	BENV_T2	85	20	-65	0.18	0.17	-0.01	-2.72	-2.82	0	0	0	0	0	0
5/16/2024 22:25	58003	WCAR_T1	1	22	21	1.9	0.2	-1.7	0.64	0.65	0	0	0	0	0	0
5/16/2024 22:25	59002	MIFF_T1	0	6	6	0	0.28	0.28	0	0	0	0	0	0	0	0
5/16/2024 22:25	57401	SPAN_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/16/2024 22:25	45402	WBLO_T2	2	6	4	1.45	0.68	-0.77	-1.84	-1.86	0	0	0	0	0	0
5/16/2024 22:25	43705	WILL_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
5/16/2024 22:25	60504	NMAN_T2	10	0	-10	0.17	0	-0.17	0	0	0	0	0	0	0	0
5/16/2024 22:25	59101	WALK_T2	0	1	1	0	0	0	0.97	0.97	0	0	0	0	0	0
5/16/2024 22:25	53903	HALI_T2	2	2	0	1	1.2	0.2	-0.21	-0.21	0	0	0	0	0	0
5/16/2024 22:25	63401	HONY_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:25	67401	WAKE_T2	0	0	0	0	0	0	-1.08	-1.1	0	0	0	0	0	0
5/16/2024 22:25	42701	AUGU_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/16/2024 22:25	58401	MORO_T1	0	0	0	0	0	0	-1.16	-1.16	0	0	0	0	0	0
5/16/2024 22:25	58001	WCAR_T1	4	4	0	1.4	1.58	0.18	0	0	0	0	0	0	0	0
5/16/2024 22:25	51303	WIND_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:25	66701	STRA_T1	0	0	0	0	0	0	0.46	-0.2	0	1	1	0	600	600
5/16/2024 22:25	41901	REED_T1	2	9	7	0.15	0.29	0.14	0	0	0	0	0	0	0	0
5/16/2024 22:25	58006	WCAR_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
5/16/2024 22:25	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:25	42201	SHEN_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
5/16/2024 22:25	60501	NMAN_T2	173	3	-170	0.34	6.6	6.26	0	0	0	0	0	0	0	0
5/16/2024 22:25	51301	WIND_T1	0	0	0	0	0	0	-0.36	-0.33	0	0	0	0	0	0
5/16/2024 22:25	45902	AUBU_T1	0	0	0	0	0	0	-0.39	-0.3	0	0	0	0	0	0
5/16/2024 22:25	66703	STRA_T1	3	4	1	0.27	0.35	0.08	-0.39	-0.4	0	0	0	0	0	0
5/16/2024 22:25	45602	WOOL_T1	1	1	0	0.2	0.4	0.2	0.92	0.8	0	0	0	0	0	0
5/16/2024 22:25	50701	SMEC_T1	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
5/16/2024 22:25	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
5/16/2024 22:25	52101	MEIS_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
5/16/2024 22:25	60502	NMAN_T2	195	1	-194	0.21	0.1	-0.11	-0.47	-0.46	0	0	0	0	0	0
5/16/2024 22:25	41902	REED_T1	0	0	0	0	0	0	2.06	2.1	0	0	0	0	0	0
5/16/2024 22:25	59003	MIFF_T1	0	0	0	0	0	0	0.39	0.67	0	0	0	0	0	0
5/16/2024 22:25	57403	SPAN_T1	0	7	7	0	0.13	0.13	0.01	0.01	0	0	0	0	0	0
5/16/2024 22:25	67605	WARW_T1	15	13	-2	0.66	0.2	-0.46	-2.48	-2.48	0	0	0	0	0	0
5/16/2024 22:25	52402	GRPA_T2	4	4	0	0.68	0.45	-0.23	-0.88	-0.92	0	0	0	0	0	0
5/16/2024 22:25	64101	REFR_T1	0	0	0	0	0	0	-0.46	-0.59	0	0	0	0	0	0
5/16/2024 22:25	43701	WILL_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
5/16/2024 22:26	44502	HAMI_T2	1	1	0	3.6	3.8	0.2	0	0	0	0	0	0	0	0
5/16/2024 22:26	44505	HAMI_T2	0	0	0	0	0	0	0.5	0.53	0	0	0	0	0	0
5/16/2024 22:26	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
5/16/2024 22:26	57205	ROSS_T1	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
5/16/2024 22:26	58401	MORO_T1	0	0	0	0	0	0	-1.16	-1.16	0	0	0	0	0	0
5/16/2024 22:26	52402	GRPA_T2	4	4	0	0.68	0.45	-0.23	-0.88	-0.92	0	0	0	0	0	0
5/16/2024 22:26	40902	JESH_T1	30	123	93	0.13	0.14	0.01	-0.75	-0.78	0	0	0	0	0	0
5/16/2024 22:26	40903	JESH_T1	0	33	33	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:26	40801	EXCH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:26	44503	HAMI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:26	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2024 22:26	44301	BEAV_T2	0	0	0	0	0	0	0.65	0.58	0	0	0	0	0	0
5/16/2024 22:26	43302	WATS_T2	4	4	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:26	40901	JESH_T1	44	60	16	0.17	0.18	0.01	0	0	0	0	0	0	0	0
5/16/2024 22:26	43802	SWIL_T1	0	0	0	0	0	0	-0.06	-0.11	0	0	0	0	0	0
5/16/2024 22:26	40802	EXCH_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
5/16/2024 22:26	43801	SWIL_T1	13	31	18	0.58	0.38	-0.2	0	0	0	0	0	0	0	0
5/16/2024 22:26	55002	NEWP_T1	5	3	-2	0.54	0.4	-0.14	-0.27	-0.27	0	0	0	0	0	0
5/16/2024 22:26	42802	SELI_T1	0	1	1	0	0.3	0.3	0	-0.03	0	0	0	0	0	0
5/16/2024 22:27	56802	BENV_T2	85	20	-65	0.18	0.17	-0.01	-1.36	-1.41	0	0	0	0	0	0
5/16/2024 22:27	40902	JESH_T1	30	123	93	0.13	0.14	0.01	-0.75	-0.78	0	0	0	0	0	0
5/16/2024 22:27	59002	MIFF_T1	0	6	6	0	0.28	0.28	0	0	0	0	0	0	0	0
5/16/2024 22:27	40903	JESH_T1	0	33	33	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:27	58402	MORO_T1	0	0	0	0	0	0	-0.35	-0.39	0	0	0	0	0	0
5/16/2024 22:27	40901	JESH_T1	44	60	16	0.17	0.18	0.01	0	0	0	0	0	0	0	0
5/16/2024 22:27	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:27	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
5/16/2024 22:27	44301	BEAV_T2	0	0	0	0	0	0	0.65	0.58	0	0	0	0	0	0
5/16/2024 22:27	59003	MIFF_T1	0	0	0	0	0	0	0.79	1.33	0	0	0	0	0	0
5/16/2024 22:28	67605	WARW_T1	15	13	-2	0.66	0.2	-0.46	-1.24	-1.24	0	0	0	0	0	0
5/16/2024 22:28	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:28	46102	MACI_T1	0	0	0	0	0	0	0.24	0.3	0	0	0	0	0	0
5/16/2024 22:29	52402	GRPA_T2	4	4	0	0.68	0.45	-0.23	0	0	0	0	0	0	0	0
5/16/2024 22:29	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
5/16/2024 22:29	41901	REED_T1	2	9	7	0.15	0.29	0.14	0	0	0	0	0	0	0	0
5/16/2024 22:29	52403	GRPA_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
5/16/2024 22:29	41902	REED_T1	0	0	0	0	0	0	1.03	1.05	0	0	0	0	0	0
5/16/2024 22:29	46504	LOHA_T1	2	2	0	0.95	0.55	-0.4	0	0	0	0	0	0	0	0
5/16/2024 22:29	58001	WCAR_T1	4	4	0	1.4	1.58	0.18	0	0	0	0	0	0	0	0
5/16/2024 22:29	58003	WCAR_T1	1	22	21	1.9	0.2	-1.7	0.64	0.65	0	0	0	0	0	0
5/16/2024 22:30	40801	EXCH_T2	0	2	2	0	0.1	0.1	-0.49	-0.57	1	1	0	1200	1200	0
5/16/2024 22:31	52402	GRPA_T2	4	3	-1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
5/16/2024 22:31	59003	MIFF_T1	0	0	0	0	0	0	0.39	0.67	0	0	0	0	0	0
5/16/2024 22:31	59002	MIFF_T1	0	6	6	0	0.58	0.58	0	0	0	0	0	0	0	0
5/16/2024 22:31	52403	GRPA_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
5/16/2024 22:32	45402	WBLO_T2	3	12	9	1.2	0.38	-0.82	-1.84	-1.86	0	0	0	0	0	0
5/16/2024 22:33	45602	WOOL_T1	1	0	-1	0.4	0	-0.4	0.46	0.4	0	0	0	0	0	0
5/16/2024 22:33	50701	SMEC_T1	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
5/16/2024 22:39	29401	BELT_T1	0	14	14	0	0.11	0.11	0	0	1	1	0	900	900	0
5/16/2024 22:39	29402	BELT_T1	1	1	0	8.3	8.6	0.3	0	0	0	0	0	0	0	0
5/16/2024 22:40	65205	PRIN_T1	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
5/16/2024 22:51	13103	NHAM_T2	0	0	0	0	0	0	-1.78	-1.79	0	0	0	0	0	0
5/16/2024 22:58	62607	ENGL_T1	0	1	1	0	0	0	-1.12	-1.17	1	1	0	300	300	0
5/16/2024 23:03	51108	CARL_T1	0	0	0	0	0	0	-0.63	-0.58	0	0	0	0	0	0
5/16/2024 23:03	51102	CARL_T1	27	1	-26	0.11	0.2	0.09	0	0	0	0	0	0	0	0
5/16/2024 23:30	62607	ENGL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/16/2024 23:30	62601	ENGL_T1	0	0	0	0	0	0	-1.46	-1.42	0	0	0	0	0	0
5/16/2024 23:33	67605	WARW_T1	14	26	12	0.61	0.63	0.02	-1.28	-1.26	0	0	0	0	0	0
5/16/2024 23:34	67605	WARW_T1	14	26	12	0.61	0.63	0.02	-1.28	-1.26	0	0	0	0	0	0
5/16/2024 23:41	52401	GRPA_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
5/16/2024 23:41	52402	GRPA_T2	4	4	0	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
5/16/2024 23:41	52403	GRPA_T2	0	1	1	0	0	0	-0.01	-0.03	0	0	0	0	0	0
5/17/2024 0:17	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 0:19	13501	MCMI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/17/2024 2:20	67605	WARW_T1	20	28	8	0.71	0.61	-0.1	-1.33	-1.34	0	0	0	0	0	0
5/17/2024 2:21	67605	WARW_T1	20	28	8	0.71	0.61	-0.1	-1.33	-1.34	0	0	0	0	0	0
5/17/2024 4:20	65901	SAKR_T2	1	1	0	8.8	8.7	-0.1	-1.41	-1.43	0	0	0	0	0	0
5/17/2024 6:25	22002	BOHE_T1	12	16	4	0.19	0.27	0.08	0.23	0.24	0	0	0	0	0	0
5/17/2024 6:25	22003	BOHE_T1	362	547	185	0.23	0.32	0.09	0	0	0	0	0	0	0	0
5/17/2024 6:25	22001	BOHE_T1	331	408	77	0.27	0.31	0.04	0	0	0	0	0	0	0	0
5/17/2024 6:26	29402	BELT_T1	1	1	0	7.2	7.8	0.6	0	0	0	0	0	0	0	0
5/17/2024 6:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/17/2024 6:39	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/17/2024 6:39	29402	BELT_T1	1	1	0	6.7	8.4	1.7	0	0	0	0	0	0	0	0
5/17/2024 6:41	15001	BLMO_T1	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
5/17/2024 7:07	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/17/2024 7:07	29402	BELT_T1	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
5/17/2024 7:11	20403	ASHF_T2	0	0	0	0	0	0	1.14	1.07	0	0	0	0	0	0
5/17/2024 7:12	24702	FLND_T2	0	0	0	0	0	0	0.17	0.22	1	1	0	1200	1200	0
5/17/2024 7:20	50701	SMEC_T1	0	0	0	0	0	0	-2.05	-2	1	1	0	900	900	0
5/17/2024 7:21	67501	WEWI_T1	1	19	18	0.1	0.14	0.04	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/17/2024 7:21	67504	WEWI_T1	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
5/17/2024 7:22	58006	WCAR_T2	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
5/17/2024 7:26	29401	BELT_T1	0	5	5	0	0.1	0.1	0	0	1	1	0	900	900	0
5/17/2024 7:26	20403	ASHF_T2	0	3	3	0	0.1	0.1	1.07	1.01	0	0	0	0	0	0
5/17/2024 7:26	24104	EHAZ_T1	0	3	3	0	0.1	0.1	-2.29	-2.3	0	0	0	0	0	0
5/17/2024 7:26	24105	EHAZ_T1	4	4	0	5.7	5.38	-0.32	0	0	0	0	0	0	0	0
5/17/2024 7:26	29402	BELT_T1	1	1	0	8.2	8.8	0.6	0	0	0	0	0	0	0	0
5/17/2024 7:26	20401	ASHF_T2	0	4	4	0	0.55	0.55	0	0	0	0	0	0	0	0
5/17/2024 7:26	24102	EHAZ_T1	1	3	2	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/17/2024 7:27	29401	BELT_T1	0	5	5	0	0.1	0.1	0	0	1	1	0	900	900	0
5/17/2024 7:27	29402	BELT_T1	1	1	0	8.2	8.8	0.6	0	0	0	0	0	0	0	0
5/17/2024 7:27	60902	DONG_T2	0	0	0	0	0	0	0.94	0.97	0	0	0	0	0	0
5/17/2024 7:28	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
5/17/2024 7:28	63804	HEMP_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
5/17/2024 7:28	61503	EPET_T1	0	0	0	0	0	0	-2.14	-2.22	0	0	0	0	0	0
5/17/2024 7:29	63804	HEMP_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
5/17/2024 7:29	64701	LITI_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
5/17/2024 7:29	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
5/17/2024 7:30	64701	LITI_T1	0	15	15	0	0.13	0.13	0.4	0.42	0	0	0	0	0	0
5/17/2024 7:30	64704	LITI_T1	0	17	17	0	0.12	0.12	0	0	0	0	0	0	0	0
5/17/2024 7:36	55101	WERT_T1	0	0	0	0	0	0	-1.09	-0.98	1	1	0	600	600	0
5/17/2024 7:36	58006	WCAR_T2	0	0	0	0	0	0	0.25	0.29	0	0	0	0	0	0
5/17/2024 7:38	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 7:40	56801	BENV_T1	19	19	0	1.16	1.28	0.12	0	0	0	0	0	0	0	0
5/17/2024 7:40	15703	TANN_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
5/17/2024 7:40	56803	BENV_T1	0	0	0	0	0	0	-0.45	-0.42	3	3	0	1800	1800	0
5/17/2024 7:40	15702	TANN_T2	0	0	0	0	0	0	-0.49	-0.43	0	0	0	0	0	0
5/17/2024 7:41	24105	EHAZ_T1	4	4	0	5.38	5.5	0.12	0	0	0	0	0	0	0	0
5/17/2024 7:41	24102	EHAZ_T1	3	1	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/17/2024 7:41	62607	ENGL_T1	0	1	1	0	0	0	-0.84	-0.81	0	0	0	0	0	0
5/17/2024 7:41	24104	EHAZ_T1	3	2	-1	0.1	0.1	0	-2.3	-2.28	0	0	0	0	0	0
5/17/2024 7:42	56801	BENV_T1	19	19	0	1.16	1.28	0.12	0	0	0	0	0	0	0	0
5/17/2024 7:42	46004	BERW_T2	0	0	0	0	0	0	-0.53	-0.69	0	0	0	0	0	0
5/17/2024 7:42	56803	BENV_T1	0	0	0	0	0	0	-0.45	-0.42	3	3	0	1800	1800	0
5/17/2024 7:42	12002	HATF_T1	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
5/17/2024 7:42	12006	HATF_T1	0	0	0	0	0	0	1.3	1.3	0	0	0	0	0	0
5/17/2024 7:42	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 7:45	12502	MITR_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
5/17/2024 7:45	12505	MITR_T2	0	0	0	0	0	0	0.81	0.83	0	0	0	0	0	0
5/17/2024 7:46	12502	MITR_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
5/17/2024 7:46	12505	MITR_T2	0	0	0	0	0	0	0.81	0.83	0	0	0	0	0	0
5/17/2024 7:47	12502	MITR_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
5/17/2024 7:47	12505	MITR_T2	0	0	0	0	0	0	1.62	1.67	0	0	0	0	0	0
5/17/2024 7:48	12502	MITR_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
5/17/2024 7:48	12505	MITR_T2	0	0	0	0	0	0	0.81	0.83	0	0	0	0	0	0
5/17/2024 7:48	64101	REFR_T1	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
5/17/2024 7:49	12502	MITR_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
5/17/2024 7:49	12505	MITR_T2	0	0	0	0	0	0	0.81	0.83	0	0	0	0	0	0
5/17/2024 7:50	57403	SPAN_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
5/17/2024 7:50	57401	SPAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 7:51	60504	NMAN_T2	5	143	138	0.2	0.27	0.07	0	0	0	0	0	0	0	0
5/17/2024 7:51	57401	SPAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 7:51	60502	NMAN_T2	76	766	690	0.16	0.42	0.26	-0.12	-0.2	0	0	0	0	0	0
5/17/2024 7:51	57403	SPAN_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
5/17/2024 7:51	60501	NMAN_T2	67	504	437	0.39	0.49	0.1	0	0	0	0	0	0	0	0
5/17/2024 7:52	67505	WEWI_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
5/17/2024 7:52	67501	WEWI_T1	19	19	0	0.14	0.16	0.02	0	0	0	0	0	0	0	0
5/17/2024 7:52	58006	WCAR_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
5/17/2024 7:52	67504	WEWI_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
5/17/2024 7:53	57401	SPAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 7:53	57403	SPAN_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
5/17/2024 7:53	15103	UPHA_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
5/17/2024 7:53	12502	MITR_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
5/17/2024 7:53	29401	BELT_T1	5	29	24	0.1	0.15	0.05	0	0	1	1	0	900	900	0
5/17/2024 7:53	29402	BELT_T1	1	1	0	8.8	8.7	-0.1	0	0	0	0	0	0	0	0
5/17/2024 7:53	12505	MITR_T2	0	0	0	0	0	0	0.81	0.83	0	0	0	0	0	0
5/17/2024 7:54	45501	DERR_T2	1	2	1	0.5	0.2	-0.3	0.51	0.67	0	0	0	0	0	0
5/17/2024 7:54	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
5/17/2024 7:54	15702	TANN_T2	0	1	1	0	0	0	-0.43	-0.41	0	0	0	0	0	0
5/17/2024 7:54	45502	DERR_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/17/2024 7:55	29402	BELT_T1	1	1	0	8.8	8.7	-0.1	0	0	0	0	0	0	0	0
5/17/2024 7:55	45901	AUBU_T1	0	0	0	0	0	0	1.59	1.4	0	0	0	0	0	0
5/17/2024 7:55	29401	BELT_T1	5	29	24	0.1	0.15	0.05	0	0	1	1	0	900	900	0
5/17/2024 7:58	46803	HEPB_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/17/2024 7:58	45501	DERR_T2	1	2	1	0.5	0.2	-0.3	0.51	0.67	0	0	0	0	0	0
5/17/2024 7:58	45502	DERR_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/17/2024 7:58	46801	HEPB_T2	2	3	1	0.6	0.8	0.2	0.57	0.56	0	0	0	0	0	0
5/17/2024 8:01	40101	HUNT_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
5/17/2024 8:02	64701	LITI_T1	15	3	-12	0.13	0.13	0	0	0	0	0	0	0	0	0
5/17/2024 8:02	64704	LITI_T1	17	4	-13	0.12	0.1	-0.02	1.37	1.32	0	0	0	0	0	0
5/17/2024 8:03	64904	MILL_T1	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
5/17/2024 8:04	64704	LITI_T1	17	4	-13	0.12	0.1	-0.02	1.37	1.32	0	0	0	0	0	0
5/17/2024 8:04	60502	NMAN_T2	766	524	-242	0.42	0.39	-0.03	0	0	0	0	0	0	0	0
5/17/2024 8:04	64701	LITI_T1	15	3	-12	0.13	0.13	0	0	0	0	0	0	0	0	0
5/17/2024 8:04	60501	NMAN_T2	503	386	-117	0.49	0.44	-0.05	0	0	0	0	0	0	0	0
5/17/2024 8:04	60504	NMAN_T2	143	64	-79	0.27	0.28	0.01	0.84	0.87	0	0	0	0	0	0
5/17/2024 8:05	17002	RIRO_T2	0	157	157	0	0.17	0.17	0.6	0.54	0	0	0	0	0	0
5/17/2024 8:06	46803	HEPB_T2	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
5/17/2024 8:06	46801	HEPB_T2	3	3	0	0.8	0.7	-0.1	0.57	0.56	0	0	0	0	0	0
5/17/2024 8:07	60504	NMAN_T2	143	64	-79	0.27	0.28	0.01	0	0	0	0	0	0	0	0
5/17/2024 8:07	60502	NMAN_T2	766	524	-242	0.42	0.39	-0.03	-0.2	-0.14	0	0	0	0	0	0
5/17/2024 8:07	60501	NMAN_T2	503	386	-117	0.49	0.44	-0.05	0	0	0	0	0	0	0	0
5/17/2024 8:07	58006	WCAR_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
5/17/2024 8:08	46001	BERW_T1	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
5/17/2024 8:09	46002	BERW_T2	0	0	0	0	0	0	0.39	0.4	1	0	-1	900	0	-900
5/17/2024 8:09	67703	WERN_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
5/17/2024 8:10	46001	BERW_T1	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
5/17/2024 8:11	40801	EXCH_T2	0	3	3	0	0.2	0.2	-0.58	-0.54	1	1	0	1200	1200	0
5/17/2024 8:11	40802	EXCH_T2	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
5/17/2024 8:11	16301	ALPA_T1	2	1	-1	0.3	0.5	0.2	-0.47	-0.44	0	0	0	0	0	0
5/17/2024 8:12	40801	EXCH_T2	0	3	3	0	0.2	0.2	-1.15	-1.08	2	2	0	2400	2400	0
5/17/2024 8:12	40802	EXCH_T2	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
5/17/2024 8:13	56601	HAMP_T1	0	0	0	0	0	0	-1.82	-1.81	0	0	0	0	0	0
5/17/2024 8:14	40801	EXCH_T2	0	3	3	0	0.2	0.2	-1.15	-1.08	2	2	0	2400	2400	0
5/17/2024 8:14	40802	EXCH_T2	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
5/17/2024 8:15	40802	EXCH_T2	4	1	-3	0.18	0.2	0.02	0	0	0	0	0	0	0	0
5/17/2024 8:15	40801	EXCH_T2	3	3	0	0.2	0.17	-0.03	-0.58	-0.54	1	1	0	1200	1200	0
5/17/2024 8:19	66703	STRA_T1	0	0	0	0	0	0	-0.19	-0.14	0	0	0	0	0	0
5/17/2024 8:23	66703	STRA_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
5/17/2024 8:23	67002	STHI_T2	0	0	0	0	0	0	2.76	2.6	0	0	0	0	0	0
5/17/2024 8:23	58006	WCAR_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
5/17/2024 8:26	26603	BROO_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
5/17/2024 8:27	26603	BROO_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
5/17/2024 8:30	46602	LACR_T1	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
5/17/2024 8:33	43201	MVIL_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/17/2024 8:33	43202	MVIL_T2	171	126	-45	0.76	1.04	0.28	-0.63	-0.61	0	0	0	0	0	0
5/17/2024 8:34	56802	BENV_T2	176	190	14	0.32	0.3	-0.02	-1.44	-1.43	0	0	0	0	0	0
5/17/2024 8:34	43202	MVIL_T2	171	126	-45	0.76	1.04	0.28	-1.26	-1.22	0	0	0	0	0	0
5/17/2024 8:34	43201	MVIL_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/17/2024 8:36	15703	TANN_T2	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
5/17/2024 8:36	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.47	0	0	0	0	0	0
5/17/2024 8:37	45902	AUBU_T1	0	0	0	0	0	0	-0.67	-0.68	1	1	0	600	600	0
5/17/2024 8:37	67703	WERN_T2	0	0	0	0	0	0	-0.28	-0.2	0	0	0	0	0	0
5/17/2024 8:37	67002	STHI_T2	0	0	0	0	0	0	0.69	0.65	0	0	0	0	0	0
5/17/2024 8:39	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 8:39	45902	AUBU_T1	0	0	0	0	0	0	-1.35	-1.32	2	2	0	1200	1200	0
5/17/2024 8:39	29402	BELT_T1	1	1	0	8.8	8.7	-0.1	0	0	0	0	0	0	0	0
5/17/2024 8:42	56802	BENV_T2	176	190	14	0.32	0.3	-0.02	-1.43	-1.46	0	0	0	0	0	0
5/17/2024 8:42	15001	BLMO_T1	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
5/17/2024 8:43	29402	BELT_T1	1	1	0	8.8	8.7	-0.1	0	0	0	0	0	0	0	0
5/17/2024 8:48	64704	LITI_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/17/2024 8:48	48302	ORWI_T2	2	2	0	0.8	0.7	-0.1	0	0.01	0	0	0	0	0	0
5/17/2024 8:48	64701	LITI_T1	1	1	0	0.2	0.1	-0.1	0.31	0.28	0	0	0	0	0	0
5/17/2024 8:49	55002	NEWP_T1	6	7	1	0.75	0.99	0.24	-0.24	-0.24	0	0	0	0	0	0
5/17/2024 8:51	13301	ORVI_T1	0	0	0	0	0	0	-0.31	-0.35	1	1	0	600	600	0
5/17/2024 8:52	60504	NMAN_T2	66	31	-35	0.28	0.22	-0.06	0	0	0	0	0	0	0	0
5/17/2024 8:52	60501	NMAN_T2	377	293	-84	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
5/17/2024 8:52	60502	NMAN_T2	579	540	-39	0.4	0.32	-0.08	-0.01	-0.15	0	0	0	0	0	0
5/17/2024 8:59	65402	MARI_T1	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/17/2024 8:59	65401	MARI_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
5/17/2024 9:01	64704	LITI_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 9:01	64701	LITI_T1	0	1	1	0	0.2	0.2	0.28	0.31	0	0	0	0	0	0
5/17/2024 9:02	59003	MIFF_T1	0	1	1	0	0.2	0.2	1.69	1.36	0	0	0	0	0	0
5/17/2024 9:02	59002	MIFF_T1	4	6	2	0.13	0.77	0.64	0	0	0	0	0	0	0	0
5/17/2024 9:02	65401	MARI_T1	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
5/17/2024 9:02	59001	MIFF_T1	1	3	2	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/17/2024 9:05	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/17/2024 9:06	67002	STHI_T2	0	0	0	0	0	0	0.7	0.74	0	0	0	0	0	0
5/17/2024 9:11	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/17/2024 9:11	13901	SEID_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
5/17/2024 9:12	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 9:12	53901	HALI_T2	1	1	0	1.1	1	-0.1	-1.5	-1.49	0	0	0	0	0	0
5/17/2024 9:12	53903	HALI_T2	2	2	0	1.35	1.55	0.2	0	0	0	0	0	0	0	0
5/17/2024 9:12	41502	FAIR_T2	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
5/17/2024 9:12	53902	HALI_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
5/17/2024 9:15	53902	HALI_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
5/17/2024 9:15	53901	HALI_T2	1	1	0	1	1.1	0.1	-1.5	-1.49	0	0	0	0	0	0
5/17/2024 9:15	53903	HALI_T2	2	3	1	1.55	1.03	-0.52	0	0	0	0	0	0	0	0
5/17/2024 9:16	53903	HALI_T2	2	3	1	1.55	1.03	-0.52	0	0	0	0	0	0	0	0
5/17/2024 9:16	53901	HALI_T2	1	1	0	1	1.1	0.1	-6.02	-5.98	0	0	0	0	0	0
5/17/2024 9:16	53902	HALI_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
5/17/2024 9:23	13905	SEID_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
5/17/2024 9:25	61502	EPET_T1	0	0	0	0	0	0	-0.59	-0.55	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/17/2024 9:26	60903	DONG_T2	0	0	0	0	0	0	1.15	1.19	0	0	0	0	0	0
5/17/2024 9:27	62105	ELAN_T1	0	0	0	0	0	0	0.33	0.37	0	0	0	0	0	0
5/17/2024 9:29	64704	LITI_T1	0	5	5	0	0.1	0.1	0.93	1.05	0	0	0	0	0	0
5/17/2024 9:29	64701	LITI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/17/2024 9:30	61502	EPET_T1	0	0	0	0	0	0	-0.59	-0.55	0	0	0	0	0	0
5/17/2024 9:30	47203	FAXO_T2	0	0	0	0	0	0	-1.57	-1.45	0	0	0	0	0	0
5/17/2024 9:32	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/17/2024 9:33	64701	LITI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/17/2024 9:33	64704	LITI_T1	5	0	-5	0.1	0	-0.1	0.93	1.05	0	0	0	0	0	0
5/17/2024 9:34	42903	MIDD_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/17/2024 9:34	42902	MIDD_T2	0	0	0	0	0	0	-1.97	-2.02	2	2	0	1200	1200	0
5/17/2024 9:35	15201	SFAR_T1	0	0	0	0	0	0	-0.21	-0.15	1	1	0	600	600	0
5/17/2024 9:35	15203	SFAR_T2	133	121	-12	0.2	0.18	-0.02	-1.29	-1.28	0	0	0	0	0	0
5/17/2024 9:36	15203	SFAR_T2	133	121	-12	0.2	0.18	-0.02	-2.58	-2.56	0	0	0	0	0	0
5/17/2024 9:36	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 9:36	42903	MIDD_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/17/2024 9:36	42902	MIDD_T2	0	0	0	0	0	0	-0.99	-1.01	1	1	0	600	600	0
5/17/2024 9:37	15203	SFAR_T2	133	121	-12	0.2	0.18	-0.02	-1.29	-1.28	0	0	0	0	0	0
5/17/2024 9:38	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 9:38	15203	SFAR_T2	133	121	-12	0.2	0.18	-0.02	-2.58	-2.56	0	0	0	0	0	0
5/17/2024 9:39	22002	BOHE_T1	6	4	-2	0.18	0.13	-0.05	0.33	0.32	0	0	0	0	0	0
5/17/2024 9:39	22001	BOHE_T1	103	113	10	0.18	0.2	0.02	0	0	0	0	0	0	0	0
5/17/2024 9:39	22003	BOHE_T1	94	125	31	0.21	0.22	0.01	0	0	0	0	0	0	0	0
5/17/2024 9:39	15203	SFAR_T2	133	121	-12	0.2	0.18	-0.02	-1.28	-1.28	0	0	0	0	0	0
5/17/2024 9:39	45901	AUBU_T1	0	0	0	0	0	0	1.41	1.44	0	0	0	0	0	0
5/17/2024 9:40	22002	BOHE_T1	6	4	-2	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
5/17/2024 9:40	22003	BOHE_T1	94	125	31	0.21	0.22	0.01	0	0	0	0	0	0	0	0
5/17/2024 9:40	22001	BOHE_T1	103	113	10	0.18	0.2	0.02	0.24	0.23	0	0	0	0	0	0
5/17/2024 9:40	15203	SFAR_T2	133	121	-12	0.2	0.18	-0.02	-1.28	-1.28	0	0	0	0	0	0
5/17/2024 9:42	56802	BENV_T2	205	127	-78	0.42	0.2	-0.22	-1.44	-1.45	0	0	0	0	0	0
5/17/2024 9:43	56802	BENV_T2	205	127	-78	0.42	0.2	-0.22	-1.44	-1.45	0	0	0	0	0	0
5/17/2024 9:43	23403	HONE_T1	0	0	0	0	0	0	-0.68	-0.65	0	0	0	0	0	0
5/17/2024 9:44	22002	BOHE_T1	6	4	-2	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
5/17/2024 9:44	56802	BENV_T2	205	127	-78	0.42	0.2	-0.22	-2.88	-2.9	0	0	0	0	0	0
5/17/2024 9:44	46803	HEPB_T2	1	1	0	0.1	0.3	0.2	0.48	0.5	0	0	0	0	0	0
5/17/2024 9:44	22001	BOHE_T1	103	113	10	0.18	0.2	0.02	0	0	0	0	0	0	0	0
5/17/2024 9:44	22003	BOHE_T1	94	125	31	0.21	0.22	0.01	0	0	0	0	0	0	0	0
5/17/2024 9:44	46801	HEPB_T2	3	2	-1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
5/17/2024 9:45	23401	HONE_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
5/17/2024 9:48	46803	HEPB_T2	1	1	0	0.3	0.2	-0.1	0.48	0.5	0	0	0	0	0	0
5/17/2024 9:48	65502	MOJO_T2	0	0	0	0	0	0	0.51	0.85	0	0	0	0	0	0
5/17/2024 9:48	46801	HEPB_T2	2	2	0	0.85	0.9	0.05	0	0	0	0	0	0	0	0
5/17/2024 9:49	65502	MOJO_T2	0	0	0	0	0	0	0.51	0.85	0	0	0	0	0	0
5/17/2024 9:54	24603	VARD_T2	3	4	1	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
5/17/2024 9:54	24602	VARD_T2	288	298	10	0.34	0.36	0.02	-0.83	-0.95	0	0	0	0	0	0
5/17/2024 9:56	56601	HAMP_T1	0	0	0	0	0	0	-1.77	-1.72	0	0	0	0	0	0
5/17/2024 9:56	22002	BOHE_T1	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/17/2024 9:56	22001	BOHE_T1	113	5	-108	0.2	0.14	-0.06	0.23	0.23	0	0	0	0	0	0
5/17/2024 9:56	22003	BOHE_T1	125	9	-116	0.22	0.61	0.39	0	0	0	0	0	0	0	0
5/17/2024 9:58	22002	BOHE_T1	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/17/2024 9:58	22003	BOHE_T1	125	9	-116	0.22	0.61	0.39	0	0	0	0	0	0	0	0
5/17/2024 9:58	22001	BOHE_T1	113	5	-108	0.2	0.14	-0.06	0.23	0.23	0	0	0	0	0	0
5/17/2024 10:00	14201	EALL_T1	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
5/17/2024 10:00	57401	SPAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/17/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
5/17/2024 10:00	17002	RIRO_T2	11	19	8	0.7	0.24	-0.46	0.64	0.66	0	0	0	0	0	0
5/17/2024 10:00	56802	BENV_T2	113	116	3	0.2	0.2	0	-1.45	-1.35	0	0	0	0	0	0
5/17/2024 10:00	67703	WERN_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
5/17/2024 10:00	60504	NMAN_T2	15	7	-8	0.13	0.15	0.02	0.89	0.88	0	0	0	0	0	0
5/17/2024 10:00	40505	CRES_T1	3	3	0	4.87	4.73	-0.14	0.29	0.27	0	0	0	0	0	0
5/17/2024 10:00	57403	SPAN_T1	0	4	4	0	0.1	0.1	-0.05	-0.02	0	0	0	0	0	0
5/17/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.56	1	1	0	600	600	0
5/17/2024 10:00	60501	NMAN_T2	219	165	-54	0.3	0.32	0.02	0	0	0	0	0	0	0	0
5/17/2024 10:00	60502	NMAN_T2	324	221	-103	0.24	0.21	-0.03	0.05	-0.01	0	0	0	0	0	0
5/17/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
5/17/2024 10:02	65503	MOJO_T2	0	0	0	0	0	0	0.13	0.03	0	0	0	0	0	0
5/17/2024 10:05	65207	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/17/2024 10:08	16301	ALPA_T1	1	1	0	0.3	0.3	0	-0.41	-0.43	0	0	0	0	0	0
5/17/2024 10:09	67001	STHI_T2	0	314	314	0	0.18	0.18	0	0	0	0	0	0	0	0
5/17/2024 10:09	67002	STHI_T2	0	10	10	0	0.1	0.1	0.82	0.83	0	0	0	0	0	0
5/17/2024 10:09	67703	WERN_T2	0	0	0	0	0	0	-0.25	-0.21	0	0	0	0	0	0
5/17/2024 10:10	61703	ELIZ_T1	0	0	0	0	0	0	-2.51	-2.46	0	0	0	0	0	0
5/17/2024 10:10	24602	VARD_T2	165	306	141	0.27	0.36	0.09	-0.95	-0.86	0	0	0	0	0	0
5/17/2024 10:10	24603	VARD_T2	3	5	2	0.37	0.84	0.47	0	0	0	0	0	0	0	0
5/17/2024 10:10	61701	ELIZ_T1	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
5/17/2024 10:12	61701	ELIZ_T1	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
5/17/2024 10:12	61703	ELIZ_T1	0	0	0	0	0	0	-2.51	-2.46	0	0	0	0	0	0
5/17/2024 10:12	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.6	0	0	0	0	0	0
5/17/2024 10:13	12001	HATF_T1	1	0	-1	0.2	0	-0.2	0.42	0.47	0	0	0	0	0	0
5/17/2024 10:13	61703	ELIZ_T1	0	0	0	0	0	0	-5.02	-4.91	0	0	0	0	0	0
5/17/2024 10:13	61701	ELIZ_T1	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
5/17/2024 10:14	62607	ENGL_T1	1	1	0	0.2	0.2	0	-0.8	-0.8	0	0	0	0	0	0
5/17/2024 10:15	60902	DONG_T2	0	0	0	0	0	0	1.03	1.01	0	0	0	0	0	0
5/17/2024 10:15	61701	ELIZ_T1	1	1	0	5.4	5	-0.4	0	0	0	0	0	0	0	0
5/17/2024 10:15	61703	ELIZ_T1	0	0	0	0	0	0	-2.51	-2.46	0	0	0	0	0	0
5/17/2024 10:16	63302	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 10:16	63304	GREE_T1	0	0	0	0	0	0	-0.54	-0.65	0	0	0	0	0	0
5/17/2024 10:19	25503	MADI_T1	106	164	58	0.3	0.53	0.23	-1	-1	0	0	0	0	0	0
5/17/2024 10:19	59001	MIFF_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/17/2024 10:19	25501	MADI_T1	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
5/17/2024 10:19	59002	MIFF_T1	6	6	0	0.62	0.67	0.05	0	0	0	0	0	0	0	0
5/17/2024 10:19	59003	MIFF_T1	1	1	0	0.1	0.3	0.2	0.63	0.6	0	0	0	0	0	0
5/17/2024 10:19	25502	MADI_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
5/17/2024 10:20	42903	MIDD_T2	2	2	0	0.55	1.1	0.55	-1.17	-1.27	1	1	0	1200	1200	0
5/17/2024 10:20	54203	PENN_T1	18	18	0	0.51	0.49	-0.02	-0.49	-0.45	1	1	0	600	600	0
5/17/2024 10:20	54201	PENN_T1	8	7	-1	0.18	0.2	0.02	0	0	0	0	0	0	0	0
5/17/2024 10:21	56501	ROCK_T2	2	2	0	0.3	0.3	0	83.96	83.96	0	0	0	0	0	0
5/17/2024 10:21	67703	WERN_T2	0	0	0	0	0	0	-0.25	-0.21	0	0	0	0	0	0
5/17/2024 10:22	56501	ROCK_T2	2	2	0	0.3	0.3	0	83.96	83.96	0	0	0	0	0	0
5/17/2024 10:22	16301	ALPA_T1	1	1	0	0.3	0.2	-0.1	-0.43	-0.42	0	0	0	0	0	0
5/17/2024 10:22	15203	SFAR_T2	50	108	58	0.14	0.21	0.07	-1.25	-1.24	0	0	0	0	0	0
5/17/2024 10:22	67703	WERN_T2	0	0	0	0	0	0	-0.5	-0.42	0	0	0	0	0	0
5/17/2024 10:23	67703	WERN_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
5/17/2024 10:23	56501	ROCK_T2	2	2	0	0.3	0.3	0	83.96	83.96	0	0	0	0	0	0
5/17/2024 10:23	15203	SFAR_T2	50	108	58	0.14	0.21	0.07	-2.5	-2.48	0	0	0	0	0	0
5/17/2024 10:24	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 10:24	67703	WERN_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
5/17/2024 10:24	15203	SFAR_T2	50	108	58	0.14	0.21	0.07	-2.48	-2.32	0	0	0	0	0	0
5/17/2024 10:24	15204	SFAR_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
5/17/2024 10:24	67303	WYOM_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
5/17/2024 10:24	29402	BELT_T1	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
5/17/2024 10:24	67702	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
5/17/2024 10:25	29402	BELT_T1	1	0	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
5/17/2024 10:25	15204	SFAR_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
5/17/2024 10:25	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 10:25	15203	SFAR_T2	50	108	58	0.14	0.21	0.07	-2.48	-2.32	0	0	0	0	0	0
5/17/2024 10:25	67703	WERN_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
5/17/2024 10:25	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/17/2024 10:26	67703	WERN_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
5/17/2024 10:26	15203	SFAR_T2	50	108	58	0.14	0.21	0.07	-1.24	-1.16	0	0	0	0	0	0
5/17/2024 10:26	45901	AUBU_T1	0	0	0	0	0	0	1.38	1.49	0	0	0	0	0	0
5/17/2024 10:26	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 10:26	64801	MONE_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/17/2024 10:26	64802	MONE_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
5/17/2024 10:26	29402	BELT_T1	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
5/17/2024 10:27	29402	BELT_T1	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
5/17/2024 10:27	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 10:28	15203	SFAR_T2	50	108	58	0.14	0.21	0.07	-1.24	-1.16	0	0	0	0	0	0
5/17/2024 10:29	23202	HIRU_T2	4	2	-2	0.1	0.1	0	0.08	0.1	0	0	0	0	0	0
5/17/2024 10:29	23201	HIRU_T2	8	16	8	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
5/17/2024 10:29	23203	HIRU_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 10:30	63801	HEMP_T1	0	0	0	0	0	0	0.45	0.27	0	0	0	0	0	0
5/17/2024 10:30	63804	HEMP_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
5/17/2024 10:31	59002	MIFF_T1	6	6	0	0.67	0.72	0.05	0	0	0	0	0	0	0	0
5/17/2024 10:31	42902	MIDD_T2	0	0	0	0	0	0	-0.94	-1	1	1	0	600	600	0
5/17/2024 10:31	59003	MIFF_T1	1	0	-1	0.3	0.1	-0.2	0.6	0.67	0	0	0	0	0	0
5/17/2024 10:31	42903	MIDD_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 10:31	64902	MILL_T2	0	0	0	0	0	0	-0.68	-0.73	0	0	0	0	0	0
5/17/2024 10:31	59001	MIFF_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/17/2024 10:33	64902	MILL_T2	0	0	0	0	0	0	-0.68	-0.73	0	0	0	0	0	0
5/17/2024 10:33	42903	MIDD_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 10:33	64904	MILL_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
5/17/2024 10:33	42902	MIDD_T2	0	0	0	0	0	0	-0.94	-1	1	1	0	600	600	0
5/17/2024 10:34	42902	MIDD_T2	0	0	0	0	0	0	-0.94	-1	1	1	0	600	600	0
5/17/2024 10:34	42903	MIDD_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 10:36	58006	WCAR_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
5/17/2024 10:36	24202	HEOV_T4	0	0	0	0	0	0	-0.85	0.83	1	1	0	1200	1200	0
5/17/2024 10:36	67502	WEWI_T2	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
5/17/2024 10:37	29401	BELT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 10:37	29402	BELT_T1	1	1	0	8.2	8.6	0.4	0	0	0	0	0	0	0	0
5/17/2024 10:38	29401	BELT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 10:38	29402	BELT_T1	1	1	0	8.2	8.6	0.4	0	0	0	0	0	0	0	0
5/17/2024 10:39	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	1	1	600	600	0
5/17/2024 10:39	58003	WCAR_T1	1	1	0	1.1	1.2	0.1	0.82	0.88	0	0	0	0	0	0
5/17/2024 10:39	58001	WCAR_T1	4	4	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
5/17/2024 10:39	20401	ASHF_T2	0	2	2	0	0.3	0.3	-0.31	-0.28	0	0	0	0	0	0
5/17/2024 10:40	58001	WCAR_T1	4	4	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
5/17/2024 10:40	58003	WCAR_T1	1	1	0	1.1	1.2	0.1	0.82	0.88	0	0	0	0	0	0
5/17/2024 10:40	16102	BING_T2	0	0	0	0	0	0	0.26	0.21	0	0	0	0	0	0
5/17/2024 10:40	56501	ROCK_T2	2	2	0	0.3	0.5	0.2	83.96	83.96	0	0	0	0	0	0
5/17/2024 10:41	20401	ASHF_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/17/2024 10:41	20403	ASHF_T2	0	0	0	0	0	0	1.13	1.06	0	0	0	0	0	0
5/17/2024 10:42	13905	SEID_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/17/2024 10:44	64701	LITI_T1	0	0	0	0	0	0	0.3	0.36	0	0	0	0	0	0
5/17/2024 10:45	64701	LITI_T1	0	0	0	0	0	0	0.3	0.36	0	0	0	0	0	0
5/17/2024 10:46	17802	GILB_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/17/2024 10:47	60504	NMAN_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
5/17/2024 10:47	60501	NMAN_T2	9	3	-6	2.27	6.4	4.13	0	0	0	0	0	0	0	0
5/17/2024 10:47	60502	NMAN_T2	19	4	-15	0.14	0.1	-0.04	-0.1	-0.01	0	0	0	0	0	0
5/17/2024 10:48	60501	NMAN_T2	9	3	-6	2.27	6.4	4.13	0	0	0	0	0	0	0	0
5/17/2024 10:48	60504	NMAN_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
5/17/2024 10:48	60502	NMAN_T2	19	4	-15	0.14	0.1	-0.04	-0.1	-0.01	0	0	0	0	0	0
5/17/2024 10:48	64701	LITI_T1	0	0	0	0	0	0	0.3	0.36	0	0	0	0	0	0
5/17/2024 10:49	64701	LITI_T1	0	0	0	0	0	0	0.3	0.36	0	0	0	0	0	0
5/17/2024 10:51	60501	NMAN_T2	9	3	-6	2.27	6.4	4.13	0	0	0	0	0	0	0	0
5/17/2024 10:51	60504	NMAN_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
5/17/2024 10:51	60502	NMAN_T2	19	4	-15	0.14	0.1	-0.04	-0.1	-0.01	0	0	0	0	0	0
5/17/2024 10:52	60501	NMAN_T2	9	3	-6	2.27	6.4	4.13	0	0	0	0	0	0	0	0
5/17/2024 10:52	60504	NMAN_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
5/17/2024 10:52	60502	NMAN_T2	19	4	-15	0.14	0.1	-0.04	-0.1	-0.01	0	0	0	0	0	0
5/17/2024 10:53	60502	NMAN_T2	19	4	-15	0.14	0.1	-0.04	-0.01	-0.05	0	0	0	0	0	0
5/17/2024 10:53	16302	ALPA_T2	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
5/17/2024 10:53	60504	NMAN_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
5/17/2024 10:53	60501	NMAN_T2	9	3	-6	2.27	6.4	4.13	0	0	0	0	0	0	0	0
5/17/2024 10:55	13302	ORVI_T2	0	0	0	0	0	0	1.51	1.49	0	0	0	0	0	0
5/17/2024 10:55	15001	BLMO_T1	3	6	3	0.3	0.35	0.05	0	0	0	0	0	0	0	0
5/17/2024 10:56	13901	SEID_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
5/17/2024 10:57	15001	BLMO_T1	3	6	3	0.3	0.35	0.05	0	0	0	0	0	0	0	0
5/17/2024 10:57	16302	ALPA_T2	0	0	0	0	0	0	2.34	2.33	0	0	0	0	0	0
5/17/2024 10:57	24501	GOUL_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
5/17/2024 10:57	46004	BERW_T2	0	0	0	0	0	0	-0.49	-0.45	0	0	0	0	0	0
5/17/2024 10:58	15001	BLMO_T1	3	6	3	0.3	0.35	0.05	0	0	0	0	0	0	0	0
5/17/2024 10:59	17805	GILB_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/17/2024 10:59	59202	THOM_T1	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/17/2024 10:59	17804	GILB_T2	1	2	1	1	0.35	-0.65	-0.57	-0.58	0	0	0	0	0	0
5/17/2024 10:59	17803	GILB_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
5/17/2024 11:01	64701	LITI_T1	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
5/17/2024 11:02	58401	MORO_T1	0	1	1	0	0	0	-0.82	-0.89	0	0	0	0	0	0
5/17/2024 11:03	58401	MORO_T1	0	1	1	0	0	0	-0.82	-0.89	0	0	0	0	0	0
5/17/2024 11:03	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 11:03	40601	PIGR_T1	1	6	5	0.1	0.15	0.05	-0.42	-0.4	0	0	0	0	0	0
5/17/2024 11:05	40601	PIGR_T1	1	6	5	0.1	0.15	0.05	-0.42	-0.4	0	0	0	0	0	0
5/17/2024 11:05	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 11:06	66703	STRA_T1	0	0	0	0	0	0	-0.15	-0.1	0	0	0	0	0	0
5/17/2024 11:06	40601	PIGR_T1	1	6	5	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/17/2024 11:06	40602	PIGR_T1	0	1	1	0	0	0	-0.68	-0.65	0	0	0	0	0	0
5/17/2024 11:06	66701	STRA_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
5/17/2024 11:07	66703	STRA_T1	0	0	0	0	0	0	-0.15	-0.1	0	0	0	0	0	0
5/17/2024 11:08	66703	STRA_T1	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
5/17/2024 11:09	45902	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 11:09	45901	AUBU_T1	0	0	0	0	0	0	1.51	1.52	0	0	0	0	0	0
5/17/2024 11:10	46004	BERW_T2	0	0	0	0	0	0	-0.45	-0.48	0	0	0	0	0	0
5/17/2024 11:13	41502	FAIR_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
5/17/2024 11:14	11402	FARM_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
5/17/2024 11:14	11405	FARM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/17/2024 11:14	11401	FARM_T1	0	0	0	0	0	0	0.65	0.58	0	0	0	0	0	0
5/17/2024 11:15	62601	ENGL_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
5/17/2024 11:15	47203	FAXO_T2	0	0	0	0	0	0	-1.47	-1.49	0	0	0	0	0	0
5/17/2024 11:15	62607	ENGL_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
5/17/2024 11:16	65401	MARI_T1	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
5/17/2024 11:17	12502	MITR_T2	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
5/17/2024 11:17	12505	MITR_T2	0	0	0	0	0	0	0.97	0.99	0	0	0	0	0	0
5/17/2024 11:19	58402	MORO_T1	0	0	0	0	0	0	-0.24	-0.18	0	0	0	0	0	0
5/17/2024 11:21	12502	MITR_T2	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
5/17/2024 11:21	12505	MITR_T2	0	0	0	0	0	0	0.97	0.99	0	0	0	0	0	0
5/17/2024 11:23	57101	SPHI_T2	6	6	0	0.58	0.72	0.14	0	0	0	0	0	0	0	0
5/17/2024 11:23	57106	SPHI_T2	3	3	0	0.8	0.83	0.03	0	0	0	0	0	0	0	0
5/17/2024 11:23	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 11:23	42802	SELI_T1	1	0	-1	0.1	0	-0.1	-1.44	-1.42	2	2	0	1800	1800	0
5/17/2024 11:23	57103	SPHI_T2	0	0	0	0	0	0	-0.25	-0.17	1	1	0	600	600	0
5/17/2024 11:25	57104	SPHI_T2	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
5/17/2024 11:25	57106	SPHI_T2	3	3	0	0.8	0.83	0.03	0	0	0	0	0	0	0	0
5/17/2024 11:25	46004	BERW_T2	0	0	0	0	0	0	-0.48	-0.42	0	0	0	0	0	0
5/17/2024 11:25	57101	SPHI_T2	6	6	0	0.58	0.72	0.14	0	0	0	0	0	0	0	0
5/17/2024 11:25	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.67	-0.64	1	1	0	600	600	0
5/17/2024 11:26	11402	FARM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/17/2024 11:26	11405	FARM_T1	0	0	0	0	0	0	-0.91	-0.92	1	1	0	1200	1200	0
5/17/2024 11:27	45902	AUBU_T1	0	1	1	0	0.1	0.1	-1.34	-1.28	2	2	0	1200	1200	0
5/17/2024 11:29	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
5/17/2024 11:31	44502	HAMI_T2	1	1	0	2.6	2.4	-0.2	-0.82	-0.81	0	0	0	0	0	0
5/17/2024 11:33	46803	HEPB_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
5/17/2024 11:33	46801	HEPB_T2	2	2	0	0.8	0.9	0.1	0.7	0.7	0	0	0	0	0	0
5/17/2024 11:36	67803	WLAN_T1	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
5/17/2024 11:36	67804	WLAN_T1	0	0	0	0	0	0	-1.11	-1.1	0	0	0	0	0	0
5/17/2024 11:37	67804	WLAN_T1	0	0	0	0	0	0	-1.11	-1.1	0	0	0	0	0	0
5/17/2024 11:37	58003	WCAR_T1	1	3	2	1.2	0.6	-0.6	0.85	0.84	0	0	0	0	0	0
5/17/2024 11:37	58001	WCAR_T1	4	4	0	0.4	1.18	0.78	0.83	0.84	0	0	0	0	0	0
5/17/2024 11:37	67803	WLAN_T1	0	0	0	0	0	0	-1.8	-1.8	0	0	0	0	0	0
5/17/2024 11:38	59101	WALK_T2	0	0	0	0	0	0	1.07	1.05	0	0	0	0	0	0
5/17/2024 11:38	67804	WLAN_T1	0	0	0	0	0	0	-2.2	-2.24	0	0	0	0	0	0
5/17/2024 11:38	49804	UNIV_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/17/2024 11:38	67803	WLAN_T1	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
5/17/2024 11:38	58006	WCAR_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
5/17/2024 11:38	49803	UNIV_T1	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
5/17/2024 11:39	67803	WLAN_T1	0	0	0	0	0	0	-1.8	-1.82	0	0	0	0	0	0
5/17/2024 11:39	67805	WLAN_T1	0	0	0	0	0	0	-0.79	-0.75	0	0	0	0	0	0
5/17/2024 11:39	49803	UNIV_T1	0	0	0	0	0	0	-0.98	-0.94	0	0	0	0	0	0
5/17/2024 11:39	49804	UNIV_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/17/2024 11:40	10901	COOP_T2	0	0	0	0	0	0	0.06	0.09	1	1	0	1200	1200	0
5/17/2024 11:40	67801	WLAN_T1	0	0	0	0	0	0	0.27	0.16	0	0	0	0	0	0
5/17/2024 11:40	49804	UNIV_T1	1	1	0	0.3	0.4	0.1	0.66	0.72	0	0	0	0	0	0
5/17/2024 11:40	67803	WLAN_T1	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
5/17/2024 11:41	67804	WLAN_T1	0	0	0	0	0	0	-1.1	-1.12	0	0	0	0	0	0
5/17/2024 11:42	67805	WLAN_T1	0	0	0	0	0	0	-0.79	-0.75	0	0	0	0	0	0
5/17/2024 11:42	67804	WLAN_T1	0	0	0	0	0	0	-1.1	-1.12	0	0	0	0	0	0
5/17/2024 11:42	40801	EXCH_T2	0	0	0	0	0	0	-0.45	-0.46	1	1	0	1200	1200	0
5/17/2024 11:43	63802	HEMP_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
5/17/2024 11:43	52402	GRPA_T2	5	8	3	0.12	0.39	0.27	-0.95	-0.98	0	0	0	0	0	0
5/17/2024 11:43	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/17/2024 11:43	63804	HEMP_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
5/17/2024 11:44	52402	GRPA_T2	5	8	3	0.12	0.39	0.27	-0.95	-0.98	0	0	0	0	0	0
5/17/2024 11:44	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/17/2024 11:44	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 11:44	29402	BELT_T1	1	1	0	8.1	8.6	0.5	0	0	0	0	0	0	0	0
5/17/2024 11:45	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
5/17/2024 11:45	63802	HEMP_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
5/17/2024 11:47	64403	LAND_T1	0	0	0	0	0	0	-1.39	-1.4	1	1	0	900	900	0
5/17/2024 11:48	64402	LAND_T2	0	0	0	0	0	0	-0.32	-0.25	1	1	0	600	600	0
5/17/2024 11:50	59302	MCAL_T1	0	1	1	0	0	0	-0.26	-0.28	1	1	0	600	600	0
5/17/2024 11:50	13503	MCMI_T2	0	1	1	0	0.6	0.6	-0.01	-0.01	0	0	0	0	0	0
5/17/2024 11:50	59301	MCAL_T1	2	3	1	0.8	0.97	0.17	0	0	0	0	0	0	0	0
5/17/2024 11:52	67804	WLAN_T1	0	0	0	0	0	0	-1.1	-1.12	0	0	0	0	0	0
5/17/2024 11:55	67804	WLAN_T1	0	0	0	0	0	0	-1.12	-1.11	0	0	0	0	0	0
5/17/2024 11:57	53902	HALI_T2	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
5/17/2024 11:57	53903	HALI_T2	3	4	1	1.2	0.95	-0.25	0	0	0	0	0	0	0	0
5/17/2024 11:57	53901	HALI_T2	1	1	0	1.1	1.3	0.2	-1.48	-1.46	0	0	0	0	0	0
5/17/2024 11:58	53902	HALI_T2	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
5/17/2024 11:58	53901	HALI_T2	1	1	0	1.1	1.3	0.2	-1.48	-1.46	0	0	0	0	0	0
5/17/2024 11:58	53903	HALI_T2	3	4	1	1.2	0.95	-0.25	-0.18	-0.2	0	0	0	0	0	0
5/17/2024 11:59	53903	HALI_T2	3	4	1	1.2	0.95	-0.25	-0.37	-0.39	0	0	0	0	0	0
5/17/2024 11:59	53902	HALI_T2	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
5/17/2024 11:59	53901	HALI_T2	1	1	0	1.1	1.3	0.2	-2.97	-2.93	0	0	0	0	0	0
5/17/2024 12:00	12006	HATF_T1	0	0	0	0	0	0	1.58	1.44	0	0	0	0	0	0
5/17/2024 12:00	53901	HALI_T2	1	1	0	1.3	1.2	-0.1	-4.45	-4.39	0	0	0	0	0	0
5/17/2024 12:00	53902	HALI_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
5/17/2024 12:00	53903	HALI_T2	3	3	0	1.23	1.1	-0.13	0	0	0	0	0	0	0	0
5/17/2024 12:00	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 12:00	16402	MORO_T1	3	1	-2	0.53	0.9	0.37	0.16	0.18	0	0	0	0	0	0
5/17/2024 12:00	16401	MORO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/17/2024 12:01	12606	MACA_T1	0	0	0	0	0	0	0.78	0.79	0	0	0	0	0	0
5/17/2024 12:03	65904	SAKR_T2	0	0	0	0	0	0	-1.84	-1.82	3	3	0	1500	1500	0
5/17/2024 12:03	57203	ROSS_T1	0	0	0	0	0	0	0.88	0.84	0	0	0	0	0	0
5/17/2024 12:03	57205	ROSS_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
5/17/2024 12:03	65901	SAKR_T2	1	1	0	8.2	8.6	0.4	0	0	0	0	0	0	0	0
5/17/2024 12:04	57205	ROSS_T1	1	1	0	0.2	0.7	0.5	0.58	0.54	0	0	0	0	0	0
5/17/2024 12:04	58402	MORO_T1	0	0	0	0	0	0	-0.31	-0.27	2	2	0	1500	1500	0
5/17/2024 12:04	57203	ROSS_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
5/17/2024 12:05	13302	ORVI_T2	0	0	0	0	0	0	1.63	1.53	0	0	0	0	0	0
5/17/2024 12:05	58102	NEKI_T1	1	1	0	1.7	1.6	-0.1	-0.83	-0.76	1	1	0	1200	1200	0
5/17/2024 12:06	58402	MORO_T1	0	0	0	0	0	0	-0.31	-0.27	2	2	0	1500	1500	0
5/17/2024 12:08	29402	BELT_T1	1	1	0	8.6	8.2	-0.4	0	0	0	0	0	0	0	0
5/17/2024 12:08	58003	WCAR_T1	3	4	1	0.6	0.5	-0.1	0.85	0.87	0	0	0	0	0	0
5/17/2024 12:08	58001	WCAR_T1	4	4	0	1.18	1.15	-0.03	0	0	0	0	0	0	0	0
5/17/2024 12:09	61103	BERK_T5	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
5/17/2024 12:09	58001	WCAR_T1	4	4	0	1.18	1.15	-0.03	0	0	0	0	0	0	0	0
5/17/2024 12:09	58003	WCAR_T1	3	4	1	0.6	0.5	-0.1	0.85	0.87	0	0	0	0	0	0
5/17/2024 12:10	61103	BERK_T5	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
5/17/2024 12:10	61102	BERK_T5	0	0	0	0	0	0	0.78	0.64	1	1	0	300	300	0
5/17/2024 12:11	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 12:11	29402	BELT_T1	1	1	0	8.6	8.2	-0.4	0	0	0	0	0	0	0	0
5/17/2024 12:13	10805	CHIH_T2	1	10	9	8.4	8.8	0.4	-0.21	-0.38	1	1	0	600	600	0
5/17/2024 12:13	61704	ELIZ_T2	5	5	0	0.24	0.28	0.04	0	0	0	0	0	0	0	0
5/17/2024 12:13	61702	ELIZ_T2	0	0	0	0	0	0	-1.97	-2.03	2	2	0	1500	1500	0
5/17/2024 12:14	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 12:15	46801	HEPB_T2	2	2	0	1	0.95	-0.05	0.72	0.73	0	0	0	0	0	0
5/17/2024 12:17	60504	NMAN_T2	2	24	22	0.25	0.24	-0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/17/2024 12:17	60501	NMAN_T2	82	324	242	0.38	0.38	0	0	0	0	0	0	0	0	0
5/17/2024 12:17	60502	NMAN_T2	130	544	414	0.16	0.32	0.16	-0.14	-0.04	0	0	0	0	0	0
5/17/2024 12:19	60501	NMAN_T2	82	324	242	0.38	0.38	0	0	0	0	0	0	0	0	0
5/17/2024 12:19	65205	PRIN_T1	1	1	0	1.1	1.9	0.8	0	0	0	0	0	0	0	0
5/17/2024 12:19	60504	NMAN_T2	2	24	22	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
5/17/2024 12:19	60502	NMAN_T2	130	544	414	0.16	0.32	0.16	-0.14	-0.04	0	0	0	0	0	0
5/17/2024 12:22	67505	WEWI_T1	0	0	0	0	0	0	-0.2	-0.18	1	1	0	900	900	0
5/17/2024 12:24	67505	WEWI_T1	0	0	0	0	0	0	-0.18	-0.18	1	1	0	900	900	0
5/17/2024 12:24	40201	BEGA_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/17/2024 12:25	40201	BEGA_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/17/2024 12:25	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 12:25	29402	BELT_T1	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
5/17/2024 12:26	45501	DERR_T2	1	1	0	0.1	0.3	0.2	0.57	0.59	2	2	0	1800	1800	0
5/17/2024 12:27	10801	CHHI_T1	0	0	0	0	0	0	-0.52	-0.63	1	1	0	900	900	0
5/17/2024 12:29	64503	LAVI_T1	0	0	0	0	0	0	-0.5	-0.36	1	1	0	1200	1200	0
5/17/2024 12:29	64501	LAVI_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/17/2024 12:29	64401	LAND_T1	0	0	0	0	0	0	-0.64	-0.68	1	1	0	600	600	0
5/17/2024 12:30	64501	LAVI_T1	0	2	2	0	0.35	0.35	-0.3	-0.3	0	0	0	0	0	0
5/17/2024 12:30	64503	LAVI_T1	0	0	0	0	0	0	-0.5	-0.36	1	1	0	1200	1200	0
5/17/2024 12:31	64402	LAND_T2	0	0	0	0	0	0	-0.27	-0.3	1	1	0	600	600	0
5/17/2024 12:31	64503	LAVI_T1	0	0	0	0	0	0	-2.49	-1.8	5	5	0	6000	6000	0
5/17/2024 12:31	64501	LAVI_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
5/17/2024 12:31	64401	LAND_T1	0	0	0	0	0	0	-1.29	-1.36	2	2	0	1200	1200	0
5/17/2024 12:32	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/17/2024 12:32	15702	TANN_T2	1	2	1	0.2	0.4	0.2	-0.33	-0.37	0	0	0	0	0	0
5/17/2024 12:33	15702	TANN_T2	1	2	1	0.2	0.4	0.2	-0.33	-0.37	0	0	0	0	0	0
5/17/2024 12:33	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/17/2024 12:34	65901	SAKR_T2	1	1	0	8.6	8.2	-0.4	-1.16	-1.16	1	1	0	900	900	0
5/17/2024 12:35	42201	SHEN_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
5/17/2024 12:36	66703	STRA_T1	0	0	0	0	0	0	-0.08	-0.11	0	0	0	0	0	0
5/17/2024 12:39	14802	TREI_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
5/17/2024 12:40	15103	UPHA_T2	0	1	1	0	0.2	0.2	0.39	0.4	0	0	0	0	0	0
5/17/2024 12:41	60801	BUCK_T1	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
5/17/2024 12:41	29402	BELT_T1	1	2	1	8.2	8.2	0	0	0	0	0	0	0	0	0
5/17/2024 12:41	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 12:51	67203	TEHI_T1	1	1	0	0.3	0	-0.3	2.47	2.42	2	2	0	1200	1200	0
5/17/2024 12:52	45402	WBLO_T2	1	2	1	1.2	1.3	0.1	-0.65	-0.66	0	0	0	0	0	0
5/17/2024 12:54	64401	LAND_T1	0	0	0	0	0	0	-0.66	-0.61	1	1	0	600	600	0
5/17/2024 12:58	40802	EXCH_T2	0	1	1	0	0.6	0.6	-0.08	0	0	0	0	0	0	0
5/17/2024 12:58	11301	EMMA_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
5/17/2024 12:58	11303	EMMA_T1	2	1	-1	1.05	0.7	-0.35	0	0	0	0	0	0	0	0
5/17/2024 12:59	52403	GRPA_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 12:59	52404	GRPA_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/17/2024 12:59	52402	GRPA_T2	5	4	-1	0.68	0.83	0.15	-0.94	-0.94	0	0	0	0	0	0
5/17/2024 12:59	52401	GRPA_T2	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
5/17/2024 13:00	40802	EXCH_T2	1	1	0	0.4	0.6	0.2	-0.04	0	0	0	0	0	0	0
5/17/2024 13:01	52404	GRPA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/17/2024 13:01	52402	GRPA_T2	4	6	2	0.83	0.53	-0.3	0	0	0	0	0	0	0	0
5/17/2024 13:01	52403	GRPA_T2	0	6	6	0	0.1	0.1	0.12	0.12	0	0	0	0	0	0
5/17/2024 13:01	11303	EMMA_T1	1	1	0	0.2	0.7	0.5	-3.24	-3.18	0	0	0	0	0	0
5/17/2024 13:01	52401	GRPA_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/17/2024 13:02	52403	GRPA_T2	0	6	6	0	0.1	0.1	0.12	0.12	0	0	0	0	0	0
5/17/2024 13:02	52402	GRPA_T2	4	6	2	0.83	0.53	-0.3	0	0	0	0	0	0	0	0
5/17/2024 13:02	52401	GRPA_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/17/2024 13:02	52404	GRPA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/17/2024 13:03	60501	NMAN_T2	212	428	216	0.31	0.51	0.2	0	0	0	0	0	0	0	0
5/17/2024 13:03	60504	NMAN_T2	11	95	84	0.18	0.26	0.08	0	0	0	0	0	0	0	0
5/17/2024 13:03	60502	NMAN_T2	325	652	327	0.21	0.47	0.26	-0.01	-0.01	0	0	0	0	0	0
5/17/2024 13:03	47001	HUGH_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/17/2024 13:05	60501	NMAN_T2	212	428	216	0.31	0.51	0.2	0	0	0	0	0	0	0	0
5/17/2024 13:05	60502	NMAN_T2	325	652	327	0.21	0.47	0.26	0	0	0	0	0	0	0	0
5/17/2024 13:05	60504	NMAN_T2	11	95	84	0.18	0.26	0.08	0.99	0.98	0	0	0	0	0	0
5/17/2024 13:07	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 13:07	13704	SCHN_T2	1	0	-1	0.2	0	-0.2	-0.29	-0.28	0	0	0	0	0	0
5/17/2024 13:09	22003	BOHE_T1	37	16	-21	0.28	0.43	0.15	0	0	0	0	0	0	0	0
5/17/2024 13:09	22001	BOHE_T1	46	8	-38	0.15	0.24	0.09	0.23	0.25	0	0	0	0	0	0
5/17/2024 13:09	47001	HUGH_T2	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
5/17/2024 13:11	46002	BERW_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
5/17/2024 13:11	46004	BERW_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/17/2024 13:11	60101	COCA_T1	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
5/17/2024 13:12	60101	COCA_T1	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
5/17/2024 13:12	29402	BELT_T1	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
5/17/2024 13:13	60101	COCA_T1	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
5/17/2024 13:13	46004	BERW_T2	0	1	1	0	0.4	0.4	-0.39	-0.39	0	0	0	0	0	0
5/17/2024 13:14	15702	TANN_T2	1	1	0	0.2	0.1	-0.1	-0.36	-0.35	0	0	0	0	0	0
5/17/2024 13:14	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/17/2024 13:15	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/17/2024 13:15	15702	TANN_T2	1	1	0	0.1	0.5	0.4	-0.36	-0.35	0	0	0	0	0	0
5/17/2024 13:16	63305	GREE_T1	0	0	0	0	0	0	-1.92	-1.97	1	1	0	900	900	0
5/17/2024 13:16	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/17/2024 13:16	15702	TANN_T2	1	1	0	0.1	0.5	0.4	-0.36	-0.35	0	0	0	0	0	0
5/17/2024 13:21	63305	GREE_T1	0	0	0	0	0	0	-1.92	-1.97	1	1	0	900	900	0
5/17/2024 13:22	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 13:22	40302	TAMA_T3	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
5/17/2024 13:23	58006	WCAR_T2	0	0	0	0	0	0	0.39	0.33	0	0	0	0	0	0
5/17/2024 13:23	59101	WALK_T2	0	0	0	0	0	0	1.09	1.2	0	0	0	0	0	0
5/17/2024 13:25	26603	BROO_T1	0	0	0	0	0	0	0.61	0.58	0	0	0	0	0	0
5/17/2024 13:27	59101	WALK_T2	0	0	0	0	0	0	1.09	1.2	0	0	0	0	0	0
5/17/2024 13:28	26603	BROO_T1	0	0	0	0	0	0	0.61	0.58	0	0	0	0	0	0
5/17/2024 13:30	15702	TANN_T2	0	1	1	0	0.5	0.5	-0.35	-0.26	0	0	0	0	0	0
5/17/2024 13:30	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/17/2024 13:31	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/17/2024 13:31	15702	TANN_T2	0	1	1	0	0.5	0.5	-0.35	-0.26	0	0	0	0	0	0
5/17/2024 13:32	50502	MECH_T1	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
5/17/2024 13:32	50501	MECH_T1	4	4	0	1.3	0.3	-1	-0.5	0.68	0	0	0	0	0	0
5/17/2024 13:32	15702	TANN_T2	0	1	1	0	0.5	0.5	-0.35	-0.26	0	0	0	0	0	0
5/17/2024 13:32	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/17/2024 13:36	42201	SHEN_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
5/17/2024 13:39	27502	WEIS_T2	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
5/17/2024 13:39	27503	WEIS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/17/2024 13:44	11303	EMMA_T1	0	1	1	0	0.2	0.2	-1.63	-1.62	0	0	0	0	0	0
5/17/2024 13:44	67703	WERN_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
5/17/2024 13:44	67702	WERN_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
5/17/2024 13:48	55002	NEWP_T1	7	7	0	0.91	1.06	0.15	-0.22	-0.2	0	0	0	0	0	0
5/17/2024 13:48	41902	REED_T1	0	0	0	0	0	0	1.18	1.16	0	0	0	0	0	0
5/17/2024 13:49	41902	REED_T1	0	0	0	0	0	0	1.18	1.16	0	0	0	0	0	0
5/17/2024 13:50	55002	NEWP_T1	7	7	0	0.91	1.06	0.15	-0.44	-0.44	0	0	0	0	0	0
5/17/2024 13:51	55002	NEWP_T1	7	7	0	0.91	1.06	0.15	-0.22	-0.2	0	0	0	0	0	0
5/17/2024 13:51	14802	TREI_T2	0	1	1	0	0.3	0.3	0.42	0.43	0	0	0	0	0	0
5/17/2024 13:51	14801	TREI_T2	1	2	1	0.5	0.65	0.15	0	0	0	0	0	0	0	0
5/17/2024 13:53	14801	TREI_T2	1	2	1	0.5	0.65	0.15	0	0	0	0	0	0	0	0
5/17/2024 13:53	14802	TREI_T2	0	1	1	0	0.3	0.3	0.42	0.43	0	0	0	0	0	0
5/17/2024 13:54	27503	WEIS_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/17/2024 13:54	27502	WEIS_T2	0	0	0	0	0	0	-0.4	-0.44	0	0	0	0	0	0
5/17/2024 13:55	14802	TREI_T2	0	1	1	0	0.3	0.3	0.43	0.42	0	0	0	0	0	0
5/17/2024 13:55	67703	WERN_T2	1	2	1	0.2	0.25	0.05	-0.02	-0.1	2	2	0	1800	1800	0
5/17/2024 13:55	14801	TREI_T2	1	2	1	0.5	0.65	0.15	0	0	0	0	0	0	0	0
5/17/2024 13:55	67804	WLAN_T1	0	0	0	0	0	0	-1.07	-1.08	0	0	0	0	0	0
5/17/2024 13:55	67702	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/17/2024 13:59	23201	HIRU_T2	3	4	1	0.13	0.13	0	0	0	0	0	0	0	0	0
5/17/2024 13:59	23202	HIRU_T2	7	5	-2	0.11	0.12	0.01	0	0	0	0	0	0	0	0
5/17/2024 13:59	23203	HIRU_T2	12	9	-3	0.18	0.11	-0.07	0.11	0.15	0	0	0	0	0	0
5/17/2024 14:00	23202	HIRU_T2	5	12	7	0.12	0.14	0.02	0	0	0	0	0	0	0	0
5/17/2024 14:00	23201	HIRU_T2	3	50	47	0.13	0.15	0.02	0	0	0	0	0	0	0	0
5/17/2024 14:00	23203	HIRU_T2	9	11	2	0.11	0.17	0.06	0.21	0.31	0	0	0	0	0	0
5/17/2024 14:00	40701	FFLD_T1	24	30	6	0.17	0.21	0.04	0	0	0	0	0	0	0	0
5/17/2024 14:00	65502	MOJO_T2	0	0	0	0	0	0	0.74	0.96	0	0	0	0	0	0
5/17/2024 14:00	40702	FFLD_T1	1	1	0	0.2	0.2	0	-0.25	-0.32	1	1	0	1200	1200	0
5/17/2024 14:00	40703	FFLD_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/17/2024 14:01	64403	LAND_T1	0	0	0	0	0	0	-1.39	-1.39	1	1	0	900	900	0
5/17/2024 14:01	65502	MOJO_T2	0	0	0	0	0	0	0.74	0.96	0	0	0	0	0	0
5/17/2024 14:02	42902	MIDD_T2	0	1	1	0	0.5	0.5	-0.94	-0.95	1	1	0	600	600	0
5/17/2024 14:02	42903	MIDD_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/17/2024 14:03	42903	MIDD_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/17/2024 14:03	42902	MIDD_T2	0	1	1	0	0.5	0.5	-0.94	-0.95	1	1	0	600	600	0
5/17/2024 14:03	58401	MORO_T1	0	0	0	0	0	0	-0.75	-0.75	1	1	0	600	600	0
5/17/2024 14:04	42902	MIDD_T2	0	1	1	0	0.5	0.5	-0.94	-0.95	1	1	0	600	600	0
5/17/2024 14:04	42903	MIDD_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/17/2024 14:05	66203	SISP_T2	0	0	0	0	0	0	-0.61	-0.54	1	1	0	1200	1200	0
5/17/2024 14:06	58401	MORO_T1	0	0	0	0	0	0	-0.75	-0.75	1	1	0	600	600	0
5/17/2024 14:09	67502	WEWI_T2	0	0	0	0	0	0	-0.44	-0.35	0	0	0	0	0	0
5/17/2024 14:09	51305	WIND_T1	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
5/17/2024 14:10	58006	WCAR_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
5/17/2024 14:10	62102	ELAN_T1	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
5/17/2024 14:10	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 14:11	67502	WEWI_T2	0	0	0	0	0	0	-0.88	-0.7	0	0	0	0	0	0
5/17/2024 14:11	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 14:12	62106	ELAN_T1	0	0	0	0	0	0	0.36	0.08	0	0	0	0	0	0
5/17/2024 14:14	24105	EHAZ_T1	4	4	0	6.53	6.1	-0.43	0	0	0	0	0	0	0	0
5/17/2024 14:14	24104	EHAZ_T1	0	0	0	0	0	0	-0.86	-0.85	1	1	0	1200	1200	0
5/17/2024 14:14	24102	EHAZ_T1	3	0	-3	0.67	0	-0.67	0	0	0	0	0	0	0	0
5/17/2024 14:15	24701	FLND_T2	0	0	0	0	0	0	0.37	0.33	0	0	0	0	0	0
5/17/2024 14:15	24702	FLND_T2	3	1	-2	0.93	0.2	-0.73	0	0	0	0	0	0	0	0
5/17/2024 14:16	24702	FLND_T2	3	1	-2	0.93	0.2	-0.73	-0.28	-0.08	1	1	0	1200	1200	0
5/17/2024 14:16	41205	KENM_T2	0	0	0	0	0	0	-0.83	-0.81	1	1	0	600	600	0
5/17/2024 14:20	42002	MNVL_T2	1	1	0	3.3	3.1	-0.2	0	0	0	0	0	0	0	0
5/17/2024 14:20	54206	PENN_T2	0	0	0	0	0	0	0.56	0.46	0	0	0	0	0	0
5/17/2024 14:20	42001	MNVL_T2	0	1	1	0	0.1	0.1	0.18	0.3	0	0	0	0	0	0
5/17/2024 14:21	42002	MNVL_T2	1	1	0	3.3	3.1	-0.2	0	0	0	0	0	0	0	0
5/17/2024 14:21	67603	WARW_T1	0	1	1	0	0.4	0.4	0.01	0.06	0	0	0	0	0	0
5/17/2024 14:21	42001	MNVL_T2	0	1	1	0	0.1	0.1	0.09	0.15	0	0	0	0	0	0
5/17/2024 14:21	67605	WARW_T1	19	31	12	0.58	0.61	0.03	0	0	0	0	0	0	0	0
5/17/2024 14:31	24102	EHAZ_T1	0	1	1	0	0	0	0.16	0.17	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/17/2024 14:31	58006	WCAR_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
5/17/2024 14:31	24105	EHAZ_T1	4	4	0	6.45	6.5	0.05	0	0	0	0	0	0	0	0
5/17/2024 14:31	45902	AUBU_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
5/17/2024 14:31	67703	WERN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
5/17/2024 14:31	45901	AUBU_T1	0	0	0	0	0	0	1.82	1.84	0	0	0	0	0	0
5/17/2024 14:31	67603	WARW_T1	0	1	1	0	0.4	0.4	0.06	0.1	0	0	0	0	0	0
5/17/2024 14:31	60101	COCA_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
5/17/2024 14:31	67605	WARW_T1	29	30	1	0.54	0.62	0.08	-4.46	-4.37	0	0	0	0	0	0
5/17/2024 14:31	47203	FAXO_T2	0	0	0	0	0	0	-1.43	-1.42	1	1	0	1200	1200	0
5/17/2024 14:31	67702	WERN_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
5/17/2024 14:31	28403	HART_T2	0	0	0	0	0	0	-0.82	-0.82	1	1	0	900	900	0
5/17/2024 14:31	67203	TEHI_T1	0	0	0	0	0	0	3.83	3.66	4	4	0	2400	2400	0
5/17/2024 14:32	13503	MCMI_T2	4	3	-1	0.33	0.5	0.17	-0.01	-0.01	0	0	0	0	0	0
5/17/2024 14:32	67605	WARW_T1	29	30	1	0.54	0.62	0.08	0	0	0	0	0	0	0	0
5/17/2024 14:32	67603	WARW_T1	0	1	1	0	0.4	0.4	0.06	0.1	0	0	0	0	0	0
5/17/2024 14:33	47403	PENS_T1	6	2	-4	0.7	1.15	0.45	0	0	0	0	0	0	0	0
5/17/2024 14:33	47402	PENS_T1	1	2	1	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
5/17/2024 14:33	48302	ORWI_T2	2	2	0	0.9	0.8	-0.1	-0.01	0.06	0	0	0	0	0	0
5/17/2024 14:33	47401	PENS_T1	4	3	-1	0.78	0.53	-0.25	1.09	1.01	0	0	0	0	0	0
5/17/2024 14:35	47403	PENS_T1	6	2	-4	0.7	1.15	0.45	0	0	0	0	0	0	0	0
5/17/2024 14:35	47401	PENS_T1	4	3	-1	0.78	0.53	-0.25	1.09	1.01	0	0	0	0	0	0
5/17/2024 14:35	47402	PENS_T1	1	2	1	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
5/17/2024 14:36	23001	SAIO_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
5/17/2024 14:36	47403	PENS_T1	6	2	-4	0.7	1.15	0.45	0	0	0	0	0	0	0	0
5/17/2024 14:36	60101	COCA_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
5/17/2024 14:36	47401	PENS_T1	4	3	-1	0.78	0.53	-0.25	2.17	2.02	0	0	0	0	0	0
5/17/2024 14:36	47402	PENS_T1	1	2	1	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
5/17/2024 14:36	58006	WCAR_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
5/17/2024 14:37	67703	WERN_T2	0	2	2	0	0.45	0.45	-0.05	-0.01	1	1	0	900	900	0
5/17/2024 14:37	67503	WEWI_T2	0	0	0	0	0	0	1.02	1	0	0	0	0	0	0
5/17/2024 14:37	67502	WEWI_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/17/2024 14:37	67702	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 14:39	43302	WATS_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/17/2024 14:39	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 14:39	43301	WATS_T2	1	3	2	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
5/17/2024 14:41	46001	BERW_T1	2	2	0	0.25	0.2	-0.05	0.82	0.72	0	0	0	0	0	0
5/17/2024 14:41	43302	WATS_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/17/2024 14:41	43301	WATS_T2	1	3	2	0.5	0.43	-0.07	0	0	1	1	0	900	900	0
5/17/2024 14:41	46005	BERW_T1	3	1	-2	1.07	0.2	-0.87	0	0	0	0	0	0	0	0
5/17/2024 14:42	46004	BERW_T2	2	3	1	0.4	0.3	-0.1	-0.37	-0.31	0	0	0	0	0	0
5/17/2024 14:42	46001	BERW_T1	2	2	0	0.25	0.2	-0.05	0.82	0.72	0	0	0	0	0	0
5/17/2024 14:42	46003	BERW_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/17/2024 14:42	46005	BERW_T1	3	1	-2	1.07	0.2	-0.87	0	0	0	0	0	0	0	0
5/17/2024 14:43	46005	BERW_T1	3	1	-2	1.07	0.2	-0.87	0	0	0	0	0	0	0	0
5/17/2024 14:43	46001	BERW_T1	2	2	0	0.25	0.2	-0.05	2.46	2.16	0	0	0	0	0	0
5/17/2024 14:44	46001	BERW_T1	2	2	0	0.25	0.2	-0.05	0.82	0.72	0	0	0	0	0	0
5/17/2024 14:44	46005	BERW_T1	3	1	-2	1.07	0.2	-0.87	0	0	0	0	0	0	0	0
5/17/2024 14:50	66201	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 14:50	47402	PENS_T1	2	1	-1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/17/2024 14:50	47401	PENS_T1	3	1	-2	0.53	0.3	-0.23	1.01	1.02	0	0	0	0	0	0
5/17/2024 14:50	66202	SISP_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
5/17/2024 14:50	64904	MILL_T1	0	0	0	0	0	0	0.5	0.55	0	0	0	0	0	0
5/17/2024 14:50	47403	PENS_T1	1	1	0	0.2	2.1	1.9	0	0	0	0	0	0	0	0
5/17/2024 14:52	66202	SISP_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
5/17/2024 14:52	47402	PENS_T1	2	1	-1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/17/2024 14:52	47403	PENS_T1	1	1	0	0.2	2.1	1.9	0	0	0	0	0	0	0	0
5/17/2024 14:52	47401	PENS_T1	3	1	-2	0.53	0.3	-0.23	1.01	1.02	0	0	0	0	0	0
5/17/2024 14:52	66201	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 14:53	47402	PENS_T1	2	1	-1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/17/2024 14:53	47401	PENS_T1	3	1	-2	0.53	0.3	-0.23	1.01	1.02	0	0	0	0	0	0
5/17/2024 14:53	47403	PENS_T1	1	1	0	0.2	2.1	1.9	0	0	0	0	0	0	0	0
5/17/2024 14:57	61103	BERK_T5	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
5/17/2024 14:57	61102	BERK_T5	0	0	0	0	0	0	0.88	0.74	1	1	0	300	300	0
5/17/2024 14:58	63302	GREE_T1	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
5/17/2024 15:02	40603	PIGR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/17/2024 15:02	40601	PIGR_T1	81	68	-13	0.27	0.22	-0.05	-0.4	-0.41	0	0	0	0	0	0
5/17/2024 15:06	40603	PIGR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/17/2024 15:06	40602	PIGR_T1	0	0	0	0	0	0	-1.89	-1.98	3	3	0	1800	1800	0
5/17/2024 15:06	42201	SHEN_T2	3	3	0	0.7	0.1	-0.6	0.39	0.39	0	0	0	0	0	0
5/17/2024 15:06	40601	PIGR_T1	81	68	-13	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
5/17/2024 15:07	43301	WATS_T2	3	1	-2	0.43	0.2	-0.23	0	0	1	0	-1	900	0	-900
5/17/2024 15:07	43302	WATS_T2	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
5/17/2024 15:07	42201	SHEN_T2	3	3	0	0.7	0.1	-0.6	0.39	0.39	0	0	0	0	0	0
5/17/2024 15:08	43302	WATS_T2	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
5/17/2024 15:08	43301	WATS_T2	3	1	-2	0.43	0.2	-0.23	0	0	1	0	-1	900	0	-900
5/17/2024 15:09	43301	WATS_T2	3	1	-2	0.43	0.2	-0.23	0	0	2	0	-2	1800	0	-1800
5/17/2024 15:09	43302	WATS_T2	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
5/17/2024 15:10	45902	AUBU_T1	1	1	0	0.9	0.6	-0.3	-0.74	-0.78	1	1	0	600	600	0
5/17/2024 15:10	43301	WATS_T2	3	1	-2	0.43	0.2	-0.23	0	0	1	1	1	0	900	900
5/17/2024 15:10	43302	WATS_T2	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
5/17/2024 15:11	42503	ALTA_T2	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
5/17/2024 15:13	45902	AUBU_T1	1	1	0	0.9	0.6	-0.3	-0.74	-0.78	1	1	0	600	600	0
5/17/2024 15:14	62105	ELAN_T1	1	0	-1	0.2	0	-0.2	0.82	0.86	0	0	0	0	0	0
5/17/2024 15:14	44502	HAMI_T2	1	1	0	2.7	2.8	0.1	0	0	0	0	0	0	0	0
5/17/2024 15:14	62106	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/17/2024 15:14	44505	HAMI_T2	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
5/17/2024 15:14	62102	ELAN_T1	0	0	0	0	0	0	0.67	0.71	0	0	0	0	0	0
5/17/2024 15:17	44505	HAMI_T2	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
5/17/2024 15:17	46504	LOHA_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/17/2024 15:17	46506	LOHA_T1	1	1	0	0.7	0.7	0	-0.39	-0.36	0	0	0	0	0	0
5/17/2024 15:17	44502	HAMI_T2	1	1	0	2.8	2.8	0	0	0	0	0	0	0	0	0
5/17/2024 15:18	43201	MVIL_T2	6	2	-4	0.77	0.75	-0.02	0	0	0	0	0	0	0	0
5/17/2024 15:18	43202	MVIL_T2	294	273	-21	0.95	1.09	0.14	-2.08	-2.36	0	0	0	0	0	0
5/17/2024 15:22	49803	UNIV_T1	0	0	0	0	0	0	-0.84	-0.74	0	0	0	0	0	0
5/17/2024 15:22	49804	UNIV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 15:23	67605	WARW_T1	22	16	-6	0.54	0.46	-0.08	-1.09	-1.07	0	0	0	0	0	0
5/17/2024 15:25	10805	CHHI_T2	1	1	0	8.7	8	-0.7	-0.97	-1.07	1	1	0	600	600	0
5/17/2024 15:28	63801	HEMP_T1	0	1	1	0	0.1	0.1	-0.93	-1.05	1	1	0	900	900	0
5/17/2024 15:28	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
5/17/2024 15:29	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 15:29	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
5/17/2024 15:29	63803	HEMP_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
5/17/2024 15:29	46602	LACR_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
5/17/2024 15:30	10805	CHHI_T2	1	1	0	8.3	7.9	-0.4	-0.97	-1.07	1	1	0	600	600	0
5/17/2024 15:31	46803	HEPB_T2	1	5	4	0.2	0.16	-0.04	0.51	0.5	0	0	0	0	0	0
5/17/2024 15:31	46801	HEPB_T2	5	21	16	0.46	0.23	-0.23	0	0	0	0	0	0	0	0
5/17/2024 15:39	14801	TREI_T2	1	2	1	0.1	0.3	0.2	0.42	0.42	0	0	0	0	0	0
5/17/2024 15:43	64501	LAVI_T1	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
5/17/2024 15:43	53502	EVIL_T2	0	0	0	0	0	0	-0.01	0	1	1	0	600	600	0
5/17/2024 15:43	53501	EVIL_T2	1	2	1	1.6	1.35	-0.25	0	0	0	0	0	0	0	0
5/17/2024 15:44	64501	LAVI_T1	0	0	0	0	0	0	-1.02	-1.05	0	0	0	0	0	0
5/17/2024 15:45	14204	EALL_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
5/17/2024 15:48	64501	LAVI_T1	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
5/17/2024 15:49	14401	SSLA_T1	2	5	3	0.5	0.44	-0.06	-0.51	-0.53	0	0	0	0	0	0
5/17/2024 15:49	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 15:49	16204	POFA_T1	5	9	4	0.14	0.11	-0.03	0	0	0	0	0	0	0	0
5/17/2024 15:49	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 15:49	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 15:49	14404	SSLA_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
5/17/2024 15:50	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 15:50	14401	SSLA_T1	2	5	3	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
5/17/2024 15:50	14404	SSLA_T1	1	1	0	6.2	6.1	-0.1	0.03	0.06	0	0	0	0	0	0
5/17/2024 15:51	16204	POFA_T1	5	9	4	0.14	0.11	-0.03	0	0	0	0	0	0	0	0
5/17/2024 15:51	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 15:51	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 15:51	14401	SSLA_T1	2	5	3	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
5/17/2024 15:51	14404	SSLA_T1	1	1	0	6.2	6.1	-0.1	0.03	0.06	0	0	0	0	0	0
5/17/2024 15:53	45902	AUBU_T1	1	1	0	0.5	0.7	0.2	-0.78	-0.82	1	1	0	600	600	0
5/17/2024 15:54	45902	AUBU_T1	1	1	0	0.5	0.7	0.2	-0.78	-0.82	1	1	0	600	600	0
5/17/2024 15:55	10602	BLGL_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
5/17/2024 15:58	20603	GRWO_T2	0	3	3	0	0.2	0.2	0.39	0.38	0	0	0	0	0	0
5/17/2024 15:59	20603	GRWO_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
5/17/2024 15:59	20601	GRWO_T2	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
5/17/2024 16:01	20603	GRWO_T2	0	3	3	0	0.2	0.2	0.39	0.38	0	0	0	0	0	0
5/17/2024 16:05	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
5/17/2024 16:06	59202	THOM_T1	25	56	31	0.16	0.2	0.04	0	0	0	0	0	0	0	0
5/17/2024 16:06	59201	THOM_T1	4	11	7	0.15	0.18	0.03	0	0	0	0	0	0	0	0
5/17/2024 16:08	59202	THOM_T1	25	56	31	0.16	0.2	0.04	0	0	0	0	0	0	0	0
5/17/2024 16:08	59201	THOM_T1	4	11	7	0.15	0.18	0.03	0	0	0	0	0	0	0	0
5/17/2024 16:09	51108	CARL_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
5/17/2024 16:09	51107	CARL_T1	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
5/17/2024 16:10	59201	THOM_T1	4	11	7	0.15	0.18	0.03	0	0	0	0	0	0	0	0
5/17/2024 16:10	59202	THOM_T1	25	56	31	0.16	0.2	0.04	0	0	0	0	0	0	0	0
5/17/2024 16:13	51108	CARL_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
5/17/2024 16:13	51107	CARL_T1	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
5/17/2024 16:14	63804	HEMP_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
5/17/2024 16:14	63802	HEMP_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
5/17/2024 16:16	63804	HEMP_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
5/17/2024 16:16	63802	HEMP_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
5/17/2024 16:27	44302	BEAV_T2	0	0	0	0	0	0	0.97	0.93	0	0	0	0	0	0
5/17/2024 16:29	51107	CARL_T1	0	0	0	0	0	0	-0.18	-0.22	0	0	0	0	0	0
5/17/2024 16:29	51108	CARL_T1	1	1	0	0.1	0.1	0	0.08	0	0	0	0	0	0	0
5/17/2024 16:32	46501	LOHA_T1	0	0	0	0	0	0	0.22	0.18	1	1	0	1200	1200	0
5/17/2024 16:32	13501	MCMI_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
5/17/2024 16:34	65803	RTWN_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/17/2024 16:34	65802	RTWN_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
5/17/2024 16:36	65402	MARI_T1	0	0	0	0	0	0	-0.14	-0.1	0	0	0	0	0	0
5/17/2024 16:37	43705	WILL_T1	2	2	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
5/17/2024 16:37	65802	RTWN_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
5/17/2024 16:37	43701	WILL_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
5/17/2024 16:37	65803	RTWN_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/17/2024 16:37	43704	WILL_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
5/17/2024 16:39	51108	CARL_T1	1	0	-1	0.1	0	-0.1	-0.45	-0.46	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/17/2024 16:40	45902	AUBU_T1	0	1	1	0	0.2	0.2	-0.9	-0.9	1	1	0	600	600	0
5/17/2024 16:41	61306	EARL_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
5/17/2024 16:50	42201	SHEN_T2	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0	0
5/17/2024 16:50	42204	SHEN_T2	0	0	0	0	0	0	-0.66	-0.67	1	1	0	1200	1200	0
5/17/2024 16:53	58006	WCAR_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
5/17/2024 16:53	59101	WALK_T2	0	0	0	0	0	0	1.01	1.03	0	0	0	0	0	0
5/17/2024 16:55	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/17/2024 16:58	14204	EALL_T2	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
5/17/2024 16:59	23403	HONE_T1	0	0	0	0	0	0	-0.63	-0.65	0	0	0	0	0	0
5/17/2024 16:59	61501	EPET_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
5/17/2024 16:59	61506	EPET_T2	0	0	0	0	0	0	-1.88	-0.89	2	1	-1	1800	900	-900
5/17/2024 17:00	28703	HAML_T2	3	3	0	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
5/17/2024 17:00	28704	HAML_T2	1	1	0	0.2	0.9	0.7	-0.01	-0.01	0	0	0	0	0	0
5/17/2024 17:10	55102	WERT_T2	0	0	0	0	0	0	-0.77	-0.79	1	1	0	600	600	0
5/17/2024 17:10	58006	WCAR_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
5/17/2024 17:11	61103	BERK_T5	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
5/17/2024 17:12	61103	BERK_T5	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
5/17/2024 17:12	44502	HAMI_T2	1	1	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
5/17/2024 17:12	45402	WBLO_T2	1	1	0	0.2	0.9	0.7	-0.75	-0.74	0	0	0	0	0	0
5/17/2024 17:12	44503	HAMI_T2	0	0	0	0	0	0	-1.69	-1.69	1	1	0	1200	1200	0
5/17/2024 17:13	63305	GREE_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
5/17/2024 17:13	61301	EARL_T1	0	0	0	0	0	0	-0.51	-0.52	2	1	-1	1800	900	-900
5/17/2024 17:13	63304	GREE_T1	0	0	0	0	0	0	-0.29	-0.25	0	0	0	0	0	0
5/17/2024 17:13	63303	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 17:14	23201	HIRU_T2	97	145	48	0.18	0.23	0.05	0	0	0	0	0	0	0	0
5/17/2024 17:14	23203	HIRU_T2	80	40	-40	0.14	0.16	0.02	0.16	0.17	0	0	0	0	0	0
5/17/2024 17:14	63305	GREE_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
5/17/2024 17:14	63304	GREE_T1	0	0	0	0	0	0	-0.29	-0.25	0	0	0	0	0	0
5/17/2024 17:14	63602	LETO_T1	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
5/17/2024 17:14	23202	HIRU_T2	200	195	-5	0.16	0.16	0	0	0	0	0	0	0	0	0
5/17/2024 17:14	63303	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 17:15	46502	LOHA_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
5/17/2024 17:15	46506	LOHA_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
5/17/2024 17:17	63305	GREE_T1	0	7	7	0	0.14	0.14	-2	-2.06	1	1	0	900	900	0
5/17/2024 17:17	63303	GREE_T1	1	0	-1	7.2	0	-7.2	0	0	0	0	0	0	0	0
5/17/2024 17:18	63602	LETO_T1	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
5/17/2024 17:19	54202	PENN_T2	0	0	0	0	0	0	0.73	0.68	0	0	0	0	0	0
5/17/2024 17:20	50505	MECH_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
5/17/2024 17:20	50502	MECH_T1	1	1	0	2	2.4	0.4	0	0	0	0	0	0	0	0
5/17/2024 17:20	50506	MECH_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/17/2024 17:20	50501	MECH_T1	4	4	0	0.73	0.85	0.12	0	0	0	0	0	0	0	0
5/17/2024 17:21	24801	VALM_T1	0	0	0	0	0	0	-0.29	-0.25	0	0	0	0	0	0
5/17/2024 17:23	66503	SMAN_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
5/17/2024 17:23	66505	SMAN_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
5/17/2024 17:24	51101	CARL_T1	0	0	0	0	0	0	-1.25	-1.39	1	1	0	600	600	0
5/17/2024 17:24	51102	CARL_T1	27	63	36	0.12	0.17	0.05	0	0	0	0	0	0	0	0
5/17/2024 17:24	51108	CARL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/17/2024 17:27	62602	ENGL_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
5/17/2024 17:27	62607	ENGL_T1	1	1	0	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
5/17/2024 17:28	21204	ECAR_T2	1	1	0	0.3	0.4	0.1	-0.69	-0.7	0	0	0	0	0	0
5/17/2024 17:28	21206	ECAR_T2	1	1	0	7.9	8	0.1	0	0	0	0	0	0	0	0
5/17/2024 17:39	51102	CARL_T1	42	83	41	0.13	0.18	0.05	0	0	0	0	0	0	0	0
5/17/2024 17:39	51108	CARL_T1	1	1	0	0.2	0.4	0.2	-0.44	-0.43	0	0	0	0	0	0
5/17/2024 17:51	44601	SALE_T2	1	1	0	0.6	0.7	0.1	0	0.02	0	0	0	0	0	0
5/17/2024 18:00	62605	ENGL_T1	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
5/17/2024 18:00	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.82	-0.8	2	2	0	1800	1800	0
5/17/2024 18:00	62606	ENGL_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
5/17/2024 18:00	62607	ENGL_T1	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
5/17/2024 18:01	62607	ENGL_T1	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
5/17/2024 18:01	62606	ENGL_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
5/17/2024 18:01	62605	ENGL_T1	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
5/17/2024 18:12	62606	ENGL_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
5/17/2024 18:12	62607	ENGL_T1	1	1	0	1.4	1	-0.4	-0.76	-0.76	0	0	0	0	0	0
5/17/2024 18:13	22003	BOHE_T1	4	2	-2	0.48	0.8	0.32	0	0	0	0	0	0	0	0
5/17/2024 18:13	22001	BOHE_T1	4	7	3	0.1	0.1	0	0.26	0.25	0	0	0	0	0	0
5/17/2024 18:14	62607	ENGL_T1	1	1	0	1.4	1	-0.4	-0.76	-0.76	0	0	0	0	0	0
5/17/2024 18:14	62606	ENGL_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
5/17/2024 18:15	62607	ENGL_T1	1	1	0	1	1.4	0.4	-0.76	-0.76	0	0	0	0	0	0
5/17/2024 18:17	62607	ENGL_T1	1	1	0	1	1.4	0.4	-0.76	-0.76	0	0	0	0	0	0
5/17/2024 18:20	65901	SAKR_T2	1	1	0	9.5	9.5	0	-1.17	-1.14	1	1	0	900	900	0
5/17/2024 18:21	42002	MNVL_T2	1	1	0	2.1	2	-0.1	0.28	0.3	0	0	0	0	0	0
5/17/2024 18:25	50103	HARR_T3	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/17/2024 18:25	50201	HARR_T3	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/17/2024 18:25	50105	HARR_T3	6	6	0	5.4	5.35	-0.05	0	0	0	0	0	0	0	0
5/17/2024 18:25	50107	HARR_T3	0	0	0	0	0	0	0.48	0.53	0	0	0	0	0	0
5/17/2024 18:26	22001	BOHE_T1	7	0	-7	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/17/2024 18:26	22002	BOHE_T1	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
5/17/2024 18:26	61503	EPET_T1	0	0	0	0	0	0	-0.79	-0.85	0	0	0	0	0	0
5/17/2024 18:26	22003	BOHE_T1	2	1	-1	0.8	1.4	0.6	0	0	0	0	0	0	0	0
5/17/2024 18:28	61503	EPET_T1	0	0	0	0	0	0	-0.79	-0.85	0	0	0	0	0	0
5/17/2024 18:29	21204	ECAR_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/17/2024 18:29	21206	ECAR_T2	1	1	0	8.1	8.1	0	-0.1	0.02	0	0	0	0	0	0
5/17/2024 18:34	64701	LITI_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
5/17/2024 18:38	20401	ASHF_T2	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
5/17/2024 18:38	20403	ASHF_T2	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
5/17/2024 18:42	22002	BOHE_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
5/17/2024 18:42	22001	BOHE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 18:42	22003	BOHE_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
5/17/2024 18:43	62606	ENGL_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
5/17/2024 18:43	62604	ENGL_T1	0	0	0	0	0	0	-0.3	-0.31	1	1	0	600	600	0
5/17/2024 18:43	62607	ENGL_T1	1	0	-1	1.5	1.2	-0.3	0	0	0	0	0	0	0	0
5/17/2024 18:43	62605	ENGL_T1	0	0	0	0	0	0	-0.69	-0.65	0	0	0	0	0	0
5/17/2024 18:44	62605	ENGL_T1	0	0	0	0	0	0	-0.69	-0.65	0	0	0	0	0	0
5/17/2024 18:44	62606	ENGL_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
5/17/2024 18:44	62607	ENGL_T1	1	1	0	1.5	1.2	-0.3	0	0	0	0	0	0	0	0
5/17/2024 18:46	62604	ENGL_T1	0	0	0	0	0	0	-0.3	-0.31	1	1	0	600	600	0
5/17/2024 18:46	62607	ENGL_T1	1	1	0	1.4	1.2	-0.2	-0.72	-0.72	0	0	0	0	0	0
5/17/2024 18:46	62605	ENGL_T1	0	0	0	0	0	0	-0.69	-0.65	0	0	0	0	0	0
5/17/2024 18:48	62605	ENGL_T1	0	0	0	0	0	0	-0.69	-0.65	0	0	0	0	0	0
5/17/2024 18:48	62607	ENGL_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
5/17/2024 18:54	66505	SMAN_T2	3	3	0	0.13	0.17	0.04	0	0	0	0	0	0	0	0
5/17/2024 18:54	66502	SMAN_T2	0	0	0	0	0	0	-0.02	0.1	0	0	0	0	0	0
5/17/2024 18:54	15103	UPHA_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
5/17/2024 18:56	29402	BELT_T1	1	1	0	8	8.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 18:56	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 18:57	50103	HARR_T3	2	2	0	0.45	0.5	0.05	-0.63	-0.63	1	1	0	1200	1200	0
5/17/2024 18:57	50201	HARR_T3	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/17/2024 18:57	50105	HARR_T3	6	6	0	5.35	5.27	-0.08	0	0	0	0	0	0	0	0
5/17/2024 18:58	63304	GREE_T1	0	0	0	0	0	0	-0.19	-0.25	0	0	0	0	0	0
5/17/2024 18:58	63305	GREE_T1	14	14	0	0.22	0.22	0	0	0	0	0	0	0	0	0
5/17/2024 18:59	63305	GREE_T1	14	14	0	0.22	0.22	0	0	0	0	0	0	0	0	0
5/17/2024 18:59	63304	GREE_T1	0	0	0	0	0	0	-0.19	-0.25	0	0	0	0	0	0
5/17/2024 19:08	67601	WARW_T2	0	0	0	0	0	0	-0.68	-0.65	0	0	0	0	0	0
5/17/2024 19:09	13905	SEID_T1	0	0	0	0	0	0	0.38	0.34	0	0	0	0	0	0
5/17/2024 19:14	61303	EARL_T1	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
5/17/2024 19:24	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 19:25	61102	BERK_T5	0	0	0	0	0	0	0.74	0.68	1	1	0	300	300	0
5/17/2024 19:30	54501	ENOL_T2	4	4	0	0.55	0.58	0.03	0	0	0	0	0	0	0	0
5/17/2024 19:30	54503	ENOL_T2	0	0	0	0	0	0	-1.86	-1.83	1	1	0	600	600	0
5/17/2024 19:30	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/17/2024 19:30	54505	ENOL_T2	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
5/17/2024 19:31	17802	GILB_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
5/17/2024 19:32	52002	LING_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/17/2024 19:32	52004	LING_T2	0	1	1	0	0.6	0.6	0.21	0.19	0	0	0	0	0	0
5/17/2024 19:32	52006	LING_T2	2	2	0	1.35	1.3	-0.05	0	0	0	0	0	0	0	0
5/17/2024 19:52	55002	NEWP_T1	7	7	0	1.21	1.26	0.05	-0.27	-0.27	0	0	0	0	0	0
5/17/2024 19:52	55001	NEWP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/17/2024 20:07	67001	STHI_T2	186	246	60	0.11	0.14	0.03	0	0	0	0	0	0	0	0
5/17/2024 20:07	67002	STHI_T2	0	2	2	0	0.1	0.1	0.74	0.69	0	0	0	0	0	0
5/17/2024 20:25	56501	ROCK_T2	2	2	0	0.6	0.5	-0.1	83.96	83.96	0	0	0	0	0	0
5/17/2024 20:28	67303	WYOM_T2	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
5/17/2024 20:37	51102	CARL_T1	56	105	49	0.15	0.22	0.07	0	0	0	0	0	0	0	0
5/17/2024 20:37	51101	CARL_T1	0	0	0	0	0	0	-1.49	-1.46	1	1	0	600	600	0
5/17/2024 20:44	41802	GOCI_T2	9	16	7	0.14	0.19	0.05	0	0	0	0	0	0	0	0
5/17/2024 20:44	41801	GOCI_T2	62	99	37	0.18	0.22	0.04	0	0	0	0	0	0	0	0
5/17/2024 20:56	62607	ENGL_T1	1	1	0	2.6	2.3	-0.3	0	0	0	0	0	0	0	0
5/17/2024 20:56	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 20:56	62601	ENGL_T1	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
5/17/2024 20:57	16302	ALPA_T2	0	0	0	0	0	0	0.69	0.7	0	0	0	0	0	0
5/17/2024 20:58	41802	GOCI_T2	14	17	3	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
5/17/2024 20:58	41801	GOCI_T2	98	68	-30	0.23	0.16	-0.07	0	0	0	0	0	0	0	0
5/17/2024 20:59	13904	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 20:59	13901	SEID_T1	0	0	0	0	0	0	0.25	0.36	0	0	0	0	0	0
5/17/2024 21:08	16301	ALPA_T1	2	12	10	0.4	0.17	-0.23	-0.37	-0.36	0	0	0	0	0	0
5/17/2024 21:11	16301	ALPA_T1	2	12	10	0.4	0.17	-0.23	-0.36	-0.39	0	0	0	0	0	0
5/17/2024 21:11	16302	ALPA_T2	0	0	0	0	0	0	2.1	2.25	0	0	0	0	0	0
5/17/2024 21:15	15203	WAR_T2	0	0	0	0	0	0	-1.2	-1.24	0	0	0	0	0	0
5/17/2024 21:27	42802	SELI_T1	1	1	0	0.5	0.9	0.4	-1.86	-1.89	2	2	0	1800	1800	0
5/17/2024 21:28	11401	FARM_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
5/17/2024 21:28	57101	SPHI_T2	6	6	0	1.48	1.9	0.42	0	0	0	0	0	0	0	0
5/17/2024 21:28	57106	SPHI_T2	3	3	0	1.43	1.53	0.1	0	0	0	0	0	0	0	0
5/17/2024 21:28	57104	SPHI_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
5/17/2024 21:28	11405	FARM_T1	1	1	0	4	4.2	0.2	0	0	0	0	0	0	0	0
5/17/2024 21:29	57103	SPHI_T2	0	0	0	0	0	0	-0.19	-0.19	1	1	0	600	600	0
5/17/2024 21:29	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 21:29	57106	SPHI_T2	3	3	0	1.43	1.53	0.1	0	0	0	0	0	0	0	0
5/17/2024 21:29	43302	WATS_T2	4	4	0	0.58	0.68	0.1	0	0	0	0	0	0	0	0
5/17/2024 21:29	57101	SPHI_T2	6	6	0	1.48	1.9	0.42	0	0	0	0	0	0	0	0
5/17/2024 21:30	11405	FARM_T1	1	1	0	4.2	4.1	-0.1	-0.9	-0.91	1	1	0	1200	1200	0
5/17/2024 21:52	46001	BERW_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
5/17/2024 21:53	47001	HUGH_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
5/17/2024 21:53	46903	MNTG_T2	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
5/17/2024 21:55	42203	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/17/2024 21:55	42201	SHEN_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
5/17/2024 21:55	46002	BERW_T2	0	0	0	0	0	0	-0.19	-0.23	0	0	0	0	0	0
5/17/2024 21:56	47203	FAXO_T2	0	0	0	0	0	0	-1.53	-1.59	1	1	0	1200	1200	0
5/17/2024 21:57	44501	HAMI_T2	0	16	16	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 21:57	44502	HAMI_T2	1	1	0	3.4	3.8	0.4	0	0	0	0	0	0	0	0
5/17/2024 21:57	53901	HALI_T2	1	1	0	0.8	0.7	-0.1	-0.96	-0.96	0	0	0	0	0	0
5/17/2024 21:57	53903	HALI_T2	2	2	0	1.5	1.9	0.4	0	0	0	0	0	0	0	0
5/17/2024 21:57	43202	MVIL_T2	312	444	132	0.9	0.84	-0.06	-0.68	-0.69	0	0	0	0	0	0
5/17/2024 21:57	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
5/17/2024 21:57	53902	HALI_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
5/17/2024 21:57	44503	HAMI_T2	0	2	2	0	0.1	0.1	-1.73	-1.74	1	1	0	1200	1200	0
5/17/2024 21:57	43201	MVIL_T2	33	78	45	0.15	0.23	0.08	0	0	0	0	0	0	0	0
5/17/2024 21:58	43201	MVIL_T2	33	78	45	0.15	0.23	0.08	0	0	0	0	0	0	0	0
5/17/2024 21:58	24801	VALM_T1	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
5/17/2024 21:58	43202	MVIL_T2	312	444	132	0.9	0.84	-0.06	-0.68	-0.69	0	0	0	0	0	0
5/17/2024 21:58	46602	LACR_T1	0	0	0	0	0	0	-0.44	-0.48	0	0	0	0	0	0
5/17/2024 21:58	46004	BERW_T2	0	0	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
5/17/2024 21:59	46001	BERW_T1	0	0	0	0	0	0	0.5	0.53	0	0	0	0	0	0
5/17/2024 21:59	46004	BERW_T2	0	0	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
5/17/2024 21:59	26603	BROO_T1	0	1	1	0	0	0	0.5	0.47	0	0	0	0	0	0
5/17/2024 22:00	59003	MIFF_T1	0	0	0	0	0	0	0.6	0.55	0	0	0	0	0	0
5/17/2024 22:00	59002	MIFF_T1	5	0	-5	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/17/2024 22:01	50103	HARR_T3	2	2	0	0.15	0.45	0.3	-0.69	-0.66	1	1	0	1200	1200	0
5/17/2024 22:01	50201	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:01	50202	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:01	50105	HARR_T3	6	6	0	5.73	5.53	-0.2	0	0	0	0	0	0	0	0
5/17/2024 22:02	64904	MILL_T1	0	1	1	0	0.1	0.1	0.56	0.52	0	0	0	0	0	0
5/17/2024 22:02	45501	DERR_T2	0	0	0	0	0	0	-0.49	-0.55	2	2	0	1800	1800	0
5/17/2024 22:02	66203	SISP_T2	0	0	0	0	0	0	-1.46	-1.39	1	1	0	1200	1200	0
5/17/2024 22:02	65503	MOJO_T2	0	1	1	0	0	0	-0.28	-0.39	0	0	0	0	0	0
5/17/2024 22:02	58001	WCAR_T1	28	7	-21	0.6	1.01	0.41	0	0	0	0	0	0	0	0
5/17/2024 22:02	64901	MILL_T1	0	11	11	0	0.15	0.15	0	0	0	0	0	0	0	0
5/17/2024 22:02	58003	WCAR_T1	195	52	-143	0.39	0.2	-0.19	0.64	0.59	0	0	0	0	0	0
5/17/2024 22:03	10805	CHHI_T2	1	1	0	7.5	7.7	0.2	-1.3	-1.32	1	1	0	600	600	0
5/17/2024 22:03	24701	FLND_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
5/17/2024 22:03	23201	HIRU_T2	110	0	-110	0.23	0	-0.23	0	0	0	0	0	0	0	0
5/17/2024 22:03	54204	PENN_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/17/2024 22:03	23202	HIRU_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
5/17/2024 22:03	62605	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:03	54206	PENN_T2	33	0	-33	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/17/2024 22:03	62607	ENGL_T1	1	1	0	1.8	1.7	-0.1	-0.76	-0.78	0	0	0	0	0	0
5/17/2024 22:03	54202	PENN_T2	5	0	-5	0.14	0	-0.14	0.64	0.56	0	0	0	0	0	0
5/17/2024 22:04	58006	WCAR_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
5/17/2024 22:04	23201	HIRU_T2	110	0	-110	0.23	0	-0.23	0	0	0	0	0	0	0	0
5/17/2024 22:04	65503	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:04	23203	HIRU_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/17/2024 22:04	47203	FAXO_T2	0	0	0	0	0	0	-1.53	-1.59	1	1	0	1200	1200	0
5/17/2024 22:04	65502	MOJO_T2	0	0	0	0	0	0	-0.91	-0.96	1	1	0	900	900	0
5/17/2024 22:05	51102	CARL_T1	116	0	-116	0.26	0	-0.26	0	0	0	0	0	0	0	0
5/17/2024 22:05	20601	GRWO_T2	7	6	-1	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
5/17/2024 22:05	10805	CHHI_T2	1	1	0	7.5	7.7	0.2	-1.3	-1.32	1	1	0	600	600	0
5/17/2024 22:05	46004	BERW_T2	0	0	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
5/17/2024 22:05	20603	GRWO_T2	5	1	-4	0.12	0.1	-0.02	0.34	0.31	0	0	0	0	0	0
5/17/2024 22:05	10602	BLGL_T2	0	0	0	0	0	0	0.23	-0.02	0	0	0	0	0	0
5/17/2024 22:05	42201	SHEN_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
5/17/2024 22:05	51108	CARL_T1	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
5/17/2024 22:06	15702	TANN_T2	9	34	25	0.11	0.15	0.04	-0.41	-0.45	0	0	0	0	0	0
5/17/2024 22:06	64401	LAND_T1	0	0	0	0	0	0	-1.16	-1.17	1	1	0	600	600	0
5/17/2024 22:06	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.61	0	0	0	0	0	0
5/17/2024 22:06	15703	TANN_T2	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:06	46801	HEPB_T2	2	2	0	0.75	0.9	0.15	0.56	0.56	0	0	0	0	0	0
5/17/2024 22:06	67802	WLAN_T1	0	8	8	0	0.15	0.15	0	0	0	0	0	0	0	0
5/17/2024 22:06	57205	ROSS_T1	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
5/17/2024 22:06	50103	HARR_T3	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
5/17/2024 22:06	50201	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:06	50107	HARR_T3	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
5/17/2024 22:06	67804	WLAN_T1	0	89	89	0	0.16	0.16	-1.1	-1.1	0	0	0	0	0	0
5/17/2024 22:06	50105	HARR_T3	6	6	0	5.73	5.53	-0.2	0	0	0	0	0	0	0	0
5/17/2024 22:06	42201	SHEN_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
5/17/2024 22:06	67805	WLAN_T1	266	501	235	0.18	0.44	0.26	0	0	0	0	0	0	0	0
5/17/2024 22:06	50202	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:06	67803	WLAN_T1	0	251	251	0	0.13	0.13	0	0	0	0	0	0	0	0
5/17/2024 22:06	67801	WLAN_T1	0	19	19	0	0.11	0.11	0	0	0	0	0	0	0	0
5/17/2024 22:07	43302	WATS_T2	3	4	1	0.43	0.78	0.35	0	0	0	0	0	0	0	0
5/17/2024 22:07	65207	PRIN_T4	3	0	-3	0.1	0	-0.1	0	0	1	2	1	1200	1800	600
5/17/2024 22:07	42002	MNVL_T2	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:07	43301	WATS_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:07	47403	PENS_T1	30	45	15	0.19	0.2	0.01	0	0	0	0	0	0	0	0
5/17/2024 22:07	42001	MNVL_T2	0	27	27	0	0.15	0.15	0.01	0.03	0	0	0	0	0	0
5/17/2024 22:07	66202	SISP_T2	0	0	0	0	0	0	-0.73	-0.59	0	0	0	0	0	0
5/17/2024 22:07	47401	PENS_T1	0	0	0	0	0	0	0.8	0.83	0	0	0	0	0	0
5/17/2024 22:07	63602	LETO_T1	0	0	0	0	0	0	-0.38	-0.47	0	0	0	0	0	0
5/17/2024 22:07	57203	ROSS_T1	0	0	0	0	0	0	0.72	0.64	0	0	0	0	0	0
5/17/2024 22:07	16402	MOPO_T1	0	0	0	0	0	0	0.04	-0.02	0	0	0	0	0	0
5/17/2024 22:08	64904	MILL_T1	0	1	1	0	0.1	0.1	0.52	0.52	0	0	0	0	0	0
5/17/2024 22:08	55102	WERT_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
5/17/2024 22:08	42001	MNVL_T2	0	27	27	0	0.15	0.15	0.01	0.03	0	0	0	0	0	0
5/17/2024 22:08	62607	ENGL_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:08	23201	HIRU_T2	110	0	-110	0.23	0	-0.23	0	0	0	0	0	0	0	0
5/17/2024 22:08	23203	HIRU_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
5/17/2024 22:08	13503	MCMI_T2	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
5/17/2024 22:08	46803	HEPB_T2	0	0	0	0	0	0	0.5	0.44	0	0	0	0	0	0
5/17/2024 22:08	16902	MECK_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
5/17/2024 22:08	63602	LETO_T1	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
5/17/2024 22:08	62605	ENGL_T1	0	2	2	0	0.1	0.1	-0.76	-0.82	0	0	0	0	0	0
5/17/2024 22:08	42002	MNVL_T2	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:08	65401	MARI_T1	0	0	0	0	0	0	0.25	-1.02	0	0	0	0	0	0
5/17/2024 22:08	46801	HEPB_T2	2	2	0	0.75	0.9	0.15	0.56	0.56	0	0	0	0	0	0
5/17/2024 22:08	64901	MILL_T1	0	11	11	0	0.15	0.15	0	0	0	0	0	0	0	0
5/17/2024 22:08	44601	SALE_T2	1	1	0	1	0.7	-0.3	-0.13	-0.08	0	0	0	0	0	0
5/17/2024 22:08	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/17/2024 22:08	57205	ROSS_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
5/17/2024 22:08	20401	ASHF_T2	3	0	-3	0.47	0	-0.47	-0.34	-0.33	0	0	0	0	0	0
5/17/2024 22:09	58402	MORO_T1	0	0	0	0	0	0	-0.53	-0.52	2	2	0	1500	1500	0
5/17/2024 22:09	65802	RTWN_T2	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
5/17/2024 22:09	63804	HEMP_T1	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
5/17/2024 22:09	67803	WLAN_T1	0	251	251	0	0.13	0.13	-1.78	-1.84	0	0	0	0	0	0
5/17/2024 22:09	62607	ENGL_T1	1	1	0	1.8	1.7	-0.1	-0.78	-0.77	0	0	0	0	0	0
5/17/2024 22:09	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.55	0	0	0	0	0	0
5/17/2024 22:09	56501	ROCK_T2	2	2	0	0.8	0.4	-0.4	83.96	83.96	0	0	0	0	0	0
5/17/2024 22:09	52101	MEIS_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
5/17/2024 22:09	10805	CHHI_T2	1	1	0	7.5	7.7	0.2	-1.32	-1.42	1	1	0	600	600	0
5/17/2024 22:09	62605	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:09	64902	MILL_T2	0	0	0	0	0	0	-0.68	-0.66	1	1	0	900	900	0
5/17/2024 22:09	64701	LITI_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
5/17/2024 22:09	67801	WLAN_T1	0	19	19	0	0.11	0.11	0	0	0	0	0	0	0	0
5/17/2024 22:09	67502	WEWI_T2	0	46	46	0	0.15	0.15	-0.53	-0.48	0	0	0	0	0	0
5/17/2024 22:09	13302	ORVI_T2	2	0	-2	0.1	0	-0.1	0	0.01	0	0	0	0	0	0
5/17/2024 22:09	67503	WEWI_T2	0	0	0	0	0	0	1.02	1	0	0	0	0	0	0
5/17/2024 22:09	67802	WLAN_T1	0	8	8	0	0.15	0.15	0	0	0	0	0	0	0	0
5/17/2024 22:09	59202	THOM_T1	299	19	-280	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
5/17/2024 22:09	51305	WIND_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
5/17/2024 22:09	10801	CHHI_T1	0	0	0	0	0	0	-0.87	-0.75	1	1	0	900	900	0
5/17/2024 22:09	67805	WLAN_T1	266	501	235	0.18	0.44	0.26	0	0	0	0	0	0	0	0
5/17/2024 22:09	59201	THOM_T1	20	5	-15	0.51	0.12	-0.39	0	0	0	0	0	0	0	0
5/17/2024 22:09	24202	PROV_T4	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
5/17/2024 22:09	17802	GILB_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
5/17/2024 22:09	67804	WLAN_T1	0	89	89	0	0.16	0.16	-1.1	-1.1	0	0	0	0	0	0
5/17/2024 22:09	52102	MEIS_T1	5	0	-5	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/17/2024 22:09	63802	HEMP_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
5/17/2024 22:10	10805	CHHI_T2	1	1	0	7.5	7.7	0.2	-1.32	-1.42	1	1	0	600	600	0
5/17/2024 22:10	67801	WLAN_T1	0	19	19	0	0.11	0.11	0.97	0.94	0	0	0	0	0	0
5/17/2024 22:10	57303	MOAL_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
5/17/2024 22:10	59202	THOM_T1	299	19	-280	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
5/17/2024 22:10	46001	BERW_T1	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
5/17/2024 22:10	67802	WLAN_T1	0	8	8	0	0.15	0.15	0	0	0	0	0	0	0	0
5/17/2024 22:10	28704	HAML_T2	1	1	0	1	1.2	0.2	-0.01	-0.01	0	0	0	0	0	0
5/17/2024 22:10	12606	MACA_T1	0	0	0	0	0	0	0.67	0.64	0	0	0	0	0	0
5/17/2024 22:10	67804	WLAN_T1	0	89	89	0	0.16	0.16	0	0	0	0	0	0	0	0
5/17/2024 22:10	46801	HEPB_T2	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
5/17/2024 22:10	28703	HAML_T2	3	3	0	0.87	1	0.13	0	0	0	0	0	0	0	0
5/17/2024 22:10	28702	HAML_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/17/2024 22:10	67805	WLAN_T1	266	501	235	0.18	0.44	0.26	0	0	0	0	0	0	0	0
5/17/2024 22:10	29402	BELT_T1	1	1	0	7.6	8.3	0.7	0	0	0	0	0	0	0	0
5/17/2024 22:10	67803	WLAN_T1	0	251	251	0	0.13	0.13	0	0	0	0	0	0	0	0
5/17/2024 22:10	57301	MOAL_T2	4	1	-3	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
5/17/2024 22:10	46803	HEPB_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
5/17/2024 22:10	59201	THOM_T1	20	5	-15	0.51	0.12	-0.39	0	0	0	0	0	0	0	0
5/17/2024 22:10	57304	MOAL_T2	5	4	-1	0.38	0.3	-0.08	-1.11	-1.22	0	0	0	0	0	0
5/17/2024 22:10	42204	SHEN_T2	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
5/17/2024 22:10	29401	BELT_T1	0	2	2	0	0.1	0.1	0	0	1	1	0	900	900	0
5/17/2024 22:11	63305	GREE_T1	0	0	0	0	0	0	-1.2	-1.09	0	0	0	0	0	0
5/17/2024 22:11	62607	ENGL_T1	1	1	0	1.8	1.7	-0.1	-0.78	-0.77	0	0	0	0	0	0
5/17/2024 22:11	64404	LAND_T2	1	89	88	0.1	0.22	0.12	0	0	0	0	0	0	0	0
5/17/2024 22:11	50105	HARR_T3	6	6	0	5.73	5.53	-0.2	0	0	0	0	0	0	0	0
5/17/2024 22:11	62605	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:11	60502	NMAN_T2	0	0	0	0	0	0	-0.5	-0.6	0	0	0	0	0	0
5/17/2024 22:11	60504	NMAN_T2	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
5/17/2024 22:11	46001	BERW_T1	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
5/17/2024 22:11	51107	CARL_T1	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
5/17/2024 22:11	67805	WLAN_T1	266	501	235	0.18	0.44	0.26	0	0	0	0	0	0	0	0
5/17/2024 22:11	50201	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:11	67802	WLAN_T1	0	8	8	0	0.15	0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/17/2024 22:11	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.55	0	0	0	0	0	0
5/17/2024 22:11	40602	PIGR_T1	0	1	1	0	0.2	0.2	1.04	1.06	0	0	0	0	0	0
5/17/2024 22:11	65901	SAKR_T2	1	1	0	9.3	8.7	-0.6	-1.35	-1.36	1	1	0	900	900	0
5/17/2024 22:11	56501	ROCK_T2	2	2	0	0.8	0.4	-0.4	83.96	83.96	0	0	0	0	0	0
5/17/2024 22:11	57203	ROSS_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
5/17/2024 22:11	40601	PIGR_T1	17	0	-17	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/17/2024 22:11	50202	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:11	67801	WLAN_T1	0	19	19	0	0.11	0.11	0	0	0	0	0	0	0	0
5/17/2024 22:11	58102	NEKI_T1	1	1	0	1	0.4	-0.6	0.31	0.31	0	0	0	0	0	0
5/17/2024 22:11	50103	HARR_T3	2	2	0	0.15	0.45	0.3	-0.66	-0.63	1	1	0	1200	1200	0
5/17/2024 22:11	67804	WLAN_T1	0	89	89	0	0.16	0.16	-1.1	-1.1	0	0	0	0	0	0
5/17/2024 22:11	67803	WLAN_T1	0	251	251	0	0.13	0.13	0	0	0	0	0	0	0	0
5/17/2024 22:11	51102	CARL_T1	116	0	-116	0.26	0	-0.26	0	0	0	0	0	0	0	0
5/17/2024 22:11	64402	LAND_T2	0	0	0	0	0	0	-0.63	-0.59	1	1	0	600	600	0
5/17/2024 22:11	60501	NMAN_T2	45	3	-42	0.58	4.4	3.82	0	0	0	0	0	0	0	0
5/17/2024 22:12	50502	MECH_T1	1	1	0	3	2.4	-0.6	0	0	0	0	0	0	0	0
5/17/2024 22:12	61306	EARL_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
5/17/2024 22:12	66303	MCGO_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/17/2024 22:12	29402	BELT_T1	1	1	0	7.6	8.3	0.7	0	0	0	0	0	0	0	0
5/17/2024 22:12	67502	WEWI_T2	0	46	46	0	0.15	0.15	-0.53	-0.48	0	0	0	0	0	0
5/17/2024 22:12	63802	HEMP_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
5/17/2024 22:12	53901	HALI_T2	1	1	0	0.7	0.4	-0.3	-0.96	-0.99	0	0	0	0	0	0
5/17/2024 22:12	44503	HAMI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:12	67605	WARW_T1	26	14	-12	0.65	0.49	-0.16	0	0	0	0	0	0	0	0
5/17/2024 22:12	67804	WLAN_T1	0	89	89	0	0.16	0.16	-1.1	-1.1	0	0	0	0	0	0
5/17/2024 22:12	45901	AUBU_T1	0	0	0	0	0	0	1.75	1.75	0	0	0	0	0	0
5/17/2024 22:12	50504	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:12	59201	THOM_T1	20	5	-15	0.51	0.12	-0.39	0	0	0	0	0	0	0	0
5/17/2024 22:12	60501	NMAN_T2	45	3	-42	0.58	4.4	3.82	0	0	0	0	0	0	0	0
5/17/2024 22:12	60502	NMAN_T2	0	0	0	0	0	0	-1	-1.19	0	0	0	0	0	0
5/17/2024 22:12	53903	HALI_T2	2	2	0	1.9	1.4	-0.5	0	0	0	0	0	0	0	0
5/17/2024 22:12	63804	HEMP_T1	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
5/17/2024 22:12	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:12	67801	WLAN_T1	0	19	19	0	0.11	0.11	0	0	0	0	0	0	0	0
5/17/2024 22:12	67603	WARW_T1	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
5/17/2024 22:12	58006	WCAR_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
5/17/2024 22:12	10105	ALLE_T3	0	5	5	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:12	44501	HAMI_T2	0	17	17	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:12	67501	WEWI_T1	0	45	45	0	0.18	0.18	0	0	0	0	0	0	0	0
5/17/2024 22:12	42201	SHEN_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
5/17/2024 22:12	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:12	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:12	62605	ENGL_T1	0	2	2	0	0.1	0.1	-0.76	-0.82	0	0	0	0	0	0
5/17/2024 22:12	54206	PENN_T2	33	0	-33	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/17/2024 22:12	42002	MNVL_T2	1	1	0	1.8	1.7	-0.1	0.22	0.25	0	0	0	0	0	0
5/17/2024 22:12	67802	WLAN_T1	0	8	8	0	0.15	0.15	0	0	0	0	0	0	0	0
5/17/2024 22:12	61703	ELIZ_T1	0	0	0	0	0	0	-2.4	-2.4	2	2	0	2100	2100	0
5/17/2024 22:12	44505	HAMI_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
5/17/2024 22:12	50501	MECH_T1	4	4	0	1.48	0.83	-0.65	0.03	0	0	0	0	0	0	0
5/17/2024 22:12	65801	RTWN_T1	0	0	0	0	0	0	-1.13	-1.1	2	2	0	1200	1200	0
5/17/2024 22:12	54204	PENN_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/17/2024 22:12	45902	AUBU_T1	0	0	0	0	0	0	-1.21	-1.11	0	0	0	0	0	0
5/17/2024 22:12	60101	COCA_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
5/17/2024 22:12	67505	WEWI_T1	0	0	0	0	0	0	-0.35	-0.43	2	2	0	1800	1800	0
5/17/2024 22:12	66302	MCGO_T2	0	0	0	0	0	0	-0.75	-0.86	0	0	0	0	0	0
5/17/2024 22:12	44502	HAMI_T2	1	1	0	3.7	3.8	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:12	53902	HALI_T2	1	1	0	6	5.6	-0.4	0	0	0	0	0	0	0	0
5/17/2024 22:12	46504	LOHA_T1	4	2	-2	0.63	0.75	0.12	0	0	0	0	0	0	0	0
5/17/2024 22:12	61503	EPET_T1	0	0	0	0	0	0	-0.41	-0.5	0	0	0	0	0	0
5/17/2024 22:12	29401	BELT_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:12	59202	THOM_T1	299	19	-280	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
5/17/2024 22:12	42001	MNVL_T2	0	27	27	0	0.15	0.15	0	0	0	0	0	0	0	0
5/17/2024 22:12	54202	PENN_T2	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/17/2024 22:12	64902	MILL_T2	0	0	0	0	0	0	-0.68	-0.66	1	1	0	900	900	0
5/17/2024 22:12	67803	WLAN_T1	0	251	251	0	0.13	0.13	-0.89	-0.92	0	0	0	0	0	0
5/17/2024 22:12	61701	ELIZ_T1	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
5/17/2024 22:12	62607	ENGL_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:12	61502	EPET_T1	30	0	-30	0.16	0	-0.16	0	0	0	0	0	0	0	0
5/17/2024 22:12	46506	LOHA_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
5/17/2024 22:12	67805	WLAN_T1	266	501	235	0.18	0.44	0.26	0	0	0	0	0	0	0	0
5/17/2024 22:12	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
5/17/2024 22:13	25503	MADI_T1	182	382	200	0.58	0.5	-0.08	-1.05	-1.06	0	0	0	0	0	0
5/17/2024 22:13	61506	EPET_T2	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
5/17/2024 22:13	60101	COCA_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
5/17/2024 22:13	61501	EPET_T2	1	1	0	4.9	5.7	0.8	0	0	0	0	0	0	0	0
5/17/2024 22:13	59202	THOM_T1	299	19	-280	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
5/17/2024 22:13	53901	HALI_T2	1	1	0	0.7	0.4	-0.3	-2.87	-2.96	0	0	0	0	0	0
5/17/2024 22:13	57401	SPAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:13	55001	NEWP_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/17/2024 22:13	24101	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:13	64404	LAND_T2	1	89	88	0.1	0.22	0.12	0	0	0	0	0	0	0	0
5/17/2024 22:13	59201	THOM_T1	20	5	-15	0.51	0.12	-0.39	0	0	0	0	0	0	0	0
5/17/2024 22:13	58003	WCAR_T1	195	52	-143	0.39	0.2	-0.19	1.18	1.16	0	0	0	0	0	0
5/17/2024 22:13	44503	HAMI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:13	64402	LAND_T2	0	0	0	0	0	0	-0.63	-0.59	1	1	0	600	600	0
5/17/2024 22:13	60502	NMAN_T2	0	0	0	0	0	0	-0.5	-0.6	0	0	0	0	0	0
5/17/2024 22:13	55002	NEWP_T1	7	6	-1	1.21	0.88	-0.33	-0.29	-0.29	0	0	0	0	0	0
5/17/2024 22:13	29401	BELT_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:13	14204	EALL_T2	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
5/17/2024 22:13	23201	HIRU_T2	110	0	-110	0.23	0	-0.23	0	0	0	0	0	0	0	0
5/17/2024 22:13	67803	WLAN_T1	0	251	251	0	0.13	0.13	-0.89	-0.92	0	0	0	0	0	0
5/17/2024 22:13	24105	EHAZ_T1	4	4	0	5.95	5.98	0.03	0	0	0	0	0	0	0	0
5/17/2024 22:13	63804	HEMP_T1	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
5/17/2024 22:13	53903	HALI_T2	2	2	0	1.9	1.4	-0.5	0	0	0	0	0	0	0	0
5/17/2024 22:13	66703	STRA_T1	0	6	6	0	0.28	0.28	-0.32	-0.41	0	0	0	0	0	0
5/17/2024 22:13	59101	WALK_T2	0	0	0	0	0	0	0.83	0.8	0	0	0	0	0	0
5/17/2024 22:13	25501	MADI_T1	3	3	0	0.2	0.27	0.07	0	0	0	0	0	0	0	0
5/17/2024 22:13	63802	HEMP_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
5/17/2024 22:13	44501	HAMI_T2	0	17	17	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:13	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:13	62605	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:13	16102	BING_T2	0	0	0	0	0	0	-0.1	-0.14	0	0	0	0	0	0
5/17/2024 22:13	24102	EHAZ_T1	0	0	0	0	0	0	0.3	0.21	0	0	0	0	0	0
5/17/2024 22:13	62607	ENGL_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:13	61703	ELIZ_T1	0	0	0	0	0	0	-2.4	-2.4	2	2	0	2100	2100	0
5/17/2024 22:13	46001	BERW_T1	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
5/17/2024 22:13	41802	GOCI_T2	17	0	-17	0.21	0	-0.21	0	0	0	0	0	0	0	0
5/17/2024 22:13	67801	WLAN_T1	0	19	19	0	0.11	0.11	0	0	0	0	0	0	0	0
5/17/2024 22:13	62604	ENGL_T1	0	0	0	0	0	0	-0.4	-0.26	1	1	0	600	600	0
5/17/2024 22:13	13905	SEID_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
5/17/2024 22:13	61301	EARL_T1	0	0	0	0	0	0	-0.53	-0.52	1	1	0	900	900	0
5/17/2024 22:13	27502	WEIS_T2	0	0	0	0	0	0	-0.49	-0.4	0	0	0	0	0	0
5/17/2024 22:13	26603	BROO_T1	0	1	1	0	0	0	0.47	0.46	0	0	0	0	0	0
5/17/2024 22:13	15203	SFAR_T2	1	0	-1	0.1	0	-0.1	-1.27	-1.25	0	0	0	0	0	0
5/17/2024 22:13	40302	TAMA_T3	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
5/17/2024 22:13	46506	LOHA_T1	1	1	0	0.6	1	0.4	-0.42	-0.45	0	0	0	0	0	0
5/17/2024 22:13	61701	ELIZ_T1	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
5/17/2024 22:13	67802	WLAN_T1	0	8	8	0	0.15	0.15	0	0	0	0	0	0	0	0
5/17/2024 22:13	46504	LOHA_T1	4	2	-2	0.63	0.75	0.12	0	0	0	0	0	0	0	0
5/17/2024 22:13	24702	FLND_T2	0	0	0	0	0	0	1.03	0.63	0	0	0	0	0	0
5/17/2024 22:13	60501	NMAN_T2	45	3	-42	0.58	4.4	3.82	0	0	0	0	0	0	0	0
5/17/2024 22:13	23203	HIRU_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/17/2024 22:13	44502	HAMI_T2	1	1	0	3.7	3.8	0.1	-0.9	-0.93	0	0	0	0	0	0
5/17/2024 22:13	41801	GOCI_T2	61	0	-61	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/17/2024 22:13	57403	SPAN_T1	5	0	-5	0.1	0	-0.1	0.01	-0.04	0	0	0	0	0	0
5/17/2024 22:13	53902	HALI_T2	1	1	0	6	5.6	-0.4	0	0	0	0	0	0	0	0
5/17/2024 22:13	67804	WLAN_T1	0	89	89	0	0.16	0.16	0	0	0	0	0	0	0	0
5/17/2024 22:13	29402	BELT_T1	1	1	0	7.6	8.3	0.7	0	0	0	0	0	0	0	0
5/17/2024 22:13	67805	WLAN_T1	266	501	235	0.18	0.44	0.26	0	0	0	0	0	0	0	0
5/17/2024 22:13	58001	WCAR_T1	28	7	-21	0.6	1.01	0.41	0	0	0	0	0	0	0	0
5/17/2024 22:13	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.55	0	0	0	0	0	0
5/17/2024 22:13	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:14	62106	ELAN_T1	11	0	-11	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/17/2024 22:14	42903	MIDD_T2	2	2	0	0.2	0.4	0.2	-0.08	-0.08	0	0	0	0	0	0
5/17/2024 22:14	62607	ENGL_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:14	10805	OHIH_T2	1	1	0	7.5	7.7	0.2	-1.32	-1.42	1	1	0	600	600	0
5/17/2024 22:14	67802	WLAN_T1	0	8	8	0	0.15	0.15	0	0	0	0	0	0	0	0
5/17/2024 22:14	53901	HALI_T2	1	1	0	0.7	0.4	-0.3	-1.91	-1.97	0	0	0	0	0	0
5/17/2024 22:14	46504	LOHA_T1	4	2	-2	0.63	0.75	0.12	0	0	0	0	0	0	0	0
5/17/2024 22:14	21206	ECAR_T2	1	1	0	8	8.2	0.2	0	0	0	0	0	0	0	0
5/17/2024 22:14	53902	HALI_T2	1	1	0	6	5.6	-0.4	0	0	0	0	0	0	0	0
5/17/2024 22:14	54204	PENN_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/17/2024 22:14	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/17/2024 22:14	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/17/2024 22:14	63804	HEMP_T1	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
5/17/2024 22:14	54202	PENN_T2	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/17/2024 22:14	67801	WLAN_T1	0	19	19	0	0.11	0.11	0	0	0	0	0	0	0	0
5/17/2024 22:14	62605	ENGL_T1	0	2	2	0	0.1	0.1	-0.76	-0.82	0	0	0	0	0	0
5/17/2024 22:14	29401	BELT_T1	0	2	2	0	0.1	0.1	0	0	2	2	0	1800	1800	0
5/17/2024 22:14	63803	HEMP_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
5/17/2024 22:14	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
5/17/2024 22:14	62103	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/17/2024 22:14	42001	MNVL_T2	0	27	27	0	0.15	0.15	0.03	0	0	0	0	0	0	0
5/17/2024 22:14	14802	TREI_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
5/17/2024 22:14	58401	MORO_T1	0	0	0	0	0	0	-1.27	-1.27	1	1	0	600	600	0
5/17/2024 22:14	47403	PENS_T1	30	45	15	0.19	0.2	0.01	0	0	0	0	0	0	0	0
5/17/2024 22:14	12002	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:14	21204	ECAR_T2	1	1	0	0.6	0.8	0.2	-0.75	-0.78	0	0	0	0	0	0
5/17/2024 22:14	62105	ELAN_T1	164	0	-164	0.16	0	-0.16	0.4	0.39	0	0	0	0	0	0
5/17/2024 22:14	24501	GOUL_T2	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
5/17/2024 22:14	47002	HUGH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:14	11303	EMMA_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
5/17/2024 22:14	61503	EPET_T1	0	0	0	0	0	0	-0.41	-0.5	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/17/2024 22:14	42002	MNVL_T2	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:14	60502	NMAN_T2	0	0	0	0	0	0	-0.5	-0.6	0	0	0	0	0	0
5/17/2024 22:14	46501	LOHA_T1	0	0	0	0	0	0	0.08	0.02	1	1	0	1200	1200	0
5/17/2024 22:14	60101	COCA_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
5/17/2024 22:14	46502	LOHA_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
5/17/2024 22:14	67502	WEWI_T2	0	46	46	0	0.15	0.15	-1.06	-0.96	0	0	0	0	0	0
5/17/2024 22:14	15103	UPHA_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
5/17/2024 22:14	29402	BELT_T1	1	1	0	7.6	8.3	0.7	0	0	0	0	0	0	0	0
5/17/2024 22:14	47001	HUGH_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
5/17/2024 22:14	67804	WLAN_T1	0	89	89	0	0.16	0.16	-1.1	-1.1	0	0	0	0	0	0
5/17/2024 22:14	23403	HONE_T1	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
5/17/2024 22:14	49804	UNIV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/17/2024 22:14	62101	ELAN_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/17/2024 22:14	67803	WLAN_T1	0	251	251	0	0.13	0.13	-0.89	-0.92	0	0	0	0	0	0
5/17/2024 22:14	61502	EPET_T1	30	0	-30	0.16	0	-0.16	0	0	0	0	0	0	0	0
5/17/2024 22:14	64701	LITI_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
5/17/2024 22:14	12006	HATF_T1	0	0	0	0	0	0	0.54	0.42	0	0	0	0	0	0
5/17/2024 22:14	22001	BOHE_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
5/17/2024 22:14	46004	BERW_T2	0	0	0	0	0	0	-0.63	-0.61	0	0	0	0	0	0
5/17/2024 22:14	49803	UNIV_T1	0	0	0	0	0	0	0.19	0.11	0	0	0	0	0	0
5/17/2024 22:14	53903	HALI_T2	2	2	0	1.9	1.4	-0.5	-0.22	-0.22	0	0	0	0	0	0
5/17/2024 22:14	67805	WLAN_T1	266	501	235	0.18	0.44	0.26	0	0	0	0	0	0	0	0
5/17/2024 22:14	22003	BOHE_T1	1	7	6	1.4	0.3	-1.1	0	0	0	0	0	0	0	0
5/17/2024 22:14	61703	ELIZ_T1	0	0	0	0	0	0	-2.4	-2.4	2	2	0	2100	2100	0
5/17/2024 22:14	67703	WERN_T2	0	0	0	0	0	0	-0.32	-0.31	1	1	0	900	900	0
5/17/2024 22:14	61701	ELIZ_T1	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
5/17/2024 22:14	52101	MEIS_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
5/17/2024 22:14	60501	NMAN_T2	45	3	-42	0.58	4.4	3.82	0	0	0	0	0	0	0	0
5/17/2024 22:14	52102	MEIS_T1	5	0	-5	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/17/2024 22:14	63304	GREE_T1	0	0	0	0	0	0	-0.38	-0.45	0	0	0	0	0	0
5/17/2024 22:14	60504	NMAN_T2	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
5/17/2024 22:14	46506	LOHA_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
5/17/2024 22:14	54206	PENN_T2	33	0	-33	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/17/2024 22:14	14204	EALL_T2	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
5/17/2024 22:14	47401	PENS_T1	0	0	0	0	0	0	0.83	0.81	0	0	0	0	0	0
5/17/2024 22:14	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:15	43301	WATS_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:15	15203	SFAR_T2	0	2	2	0	0.1	0.1	-1.27	-1.25	0	0	0	0	0	0
5/17/2024 22:15	67605	WARW_T1	14	14	0	0.44	0.51	0.07	-1.26	-1.28	0	0	0	0	0	0
5/17/2024 22:15	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:15	29402	BELT_T1	1	1	0	7.7	8.3	0.6	0	0	0	0	0	0	0	0
5/17/2024 22:15	42903	MIDD_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:15	43302	WATS_T2	4	4	0	0.78	0.75	-0.03	0	0	0	0	0	0	0	0
5/17/2024 22:15	47403	PENS_T1	42	17	-25	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
5/17/2024 22:15	40602	PIGR_T1	1	1	0	0.5	0	-0.5	0.52	0.53	0	0	0	0	0	0
5/17/2024 22:15	15001	BLMO_T1	4	5	1	0.28	0.64	0.36	0	0	0	0	0	0	0	0
5/17/2024 22:15	10801	CHHI_T1	0	0	0	0	0	0	-0.87	-0.75	1	1	0	900	900	0
5/17/2024 22:15	47401	PENS_T1	0	0	0	0	0	0	1.66	1.62	0	0	0	0	0	0
5/17/2024 22:15	29401	BELT_T1	0	2	2	0	0.1	0.1	0	0	3	3	0	2700	2700	0
5/17/2024 22:15	62106	ELAN_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
5/17/2024 22:15	10903	COOP_T2	0	84	84	0	0.18	0.18	0	0	0	0	0	0	0	0
5/17/2024 22:15	10901	COOP_T2	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
5/17/2024 22:15	62607	ENGL_T1	1	1	0	1.8	1.7	-0.1	-1.56	-1.54	0	0	0	0	0	0
5/17/2024 22:15	42902	MIDD_T2	0	0	0	0	0	0	-1.22	-1.23	1	1	0	600	600	0
5/17/2024 22:15	62605	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:16	67805	WLAN_T1	443	501	58	0.33	0.44	0.11	-1.52	-1.52	0	0	0	0	0	0
5/17/2024 22:16	15001	BLMO_T1	4	5	1	0.28	0.64	0.36	0	0	0	0	0	0	0	0
5/17/2024 22:16	67802	WLAN_T1	3	8	5	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/17/2024 22:16	60501	NMAN_T2	3	3	0	4.4	4.17	-0.23	0	0	0	0	0	0	0	0
5/17/2024 22:16	62102	ELAN_T1	0	0	0	0	0	0	0.64	0.7	0	0	0	0	0	0
5/17/2024 22:16	66202	SISP_T2	0	0	0	0	0	0	-0.59	-0.78	0	0	0	0	0	0
5/17/2024 22:16	67803	WLAN_T1	51	251	200	0.1	0.13	0.03	0	0	0	0	0	0	0	0
5/17/2024 22:16	67801	WLAN_T1	1	19	18	0.1	0.11	0.01	0	0	0	0	0	0	0	0
5/17/2024 22:16	60502	NMAN_T2	0	0	0	0	0	0	-1	-1.19	0	0	0	0	0	0
5/17/2024 22:16	67804	WLAN_T1	13	89	76	0.11	0.16	0.05	0	0	0	0	0	0	0	0
5/17/2024 22:16	15203	SFAR_T2	0	2	2	0	0.1	0.1	-1.27	-1.25	0	0	0	0	0	0
5/17/2024 22:16	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
5/17/2024 22:17	52401	GRPA_T2	1	2	1	0.3	0.65	0.35	0	0	0	0	0	0	0	0
5/17/2024 22:17	10805	CHHI_T2	1	1	0	7.7	7.7	0	-1.32	-1.42	1	1	0	600	600	0
5/17/2024 22:17	67605	WARW_T1	14	14	0	0.44	0.51	0.07	-1.26	-1.28	0	0	0	0	0	0
5/17/2024 22:17	53903	HALI_T2	2	2	0	1.4	1.5	0.1	-0.22	-0.22	0	0	0	0	0	0
5/17/2024 22:17	12002	HATF_T1	1	1	0	0.3	0	-0.3	-0.13	-0.07	0	0	0	0	0	0
5/17/2024 22:17	63305	GREE_T1	0	0	0	0	0	0	-1.2	-1.09	0	0	0	0	0	0
5/17/2024 22:17	55002	NEWP_T1	6	6	0	0.73	1.03	0.3	-0.29	-0.29	0	0	0	0	0	0
5/17/2024 22:17	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
5/17/2024 22:17	43301	WATS_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:17	66503	SMAN_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
5/17/2024 22:17	59302	MCAL_T1	1	1	0	0.1	0.6	0.5	-0.42	-0.43	1	1	0	600	600	0
5/17/2024 22:17	49803	UNIV_T1	0	0	0	0	0	0	0.19	0.11	0	0	0	0	0	0
5/17/2024 22:17	58001	WCAR_T1	7	8	1	1.01	0.9	-0.11	0	0	0	0	0	0	0	0
5/17/2024 22:17	66505	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:17	13302	ORVI_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
5/17/2024 22:17	52403	GRPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:17	66703	STRA_T1	3	6	3	0.2	0.28	0.08	-0.32	-0.41	0	0	0	0	0	0
5/17/2024 22:17	59301	MCAL_T1	1	2	1	0.1	0.75	0.65	0	0	0	0	0	0	0	0
5/17/2024 22:17	24105	EHAZ_T1	4	4	0	5.98	5.78	-0.2	0	0	0	0	0	0	0	0
5/17/2024 22:17	67703	WERN_T2	0	0	0	0	0	0	-0.64	-0.62	2	2	0	1800	1800	0
5/17/2024 22:17	11303	EMMA_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
5/17/2024 22:17	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:17	40802	EXCH_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
5/17/2024 22:17	24104	EHAZ_T1	0	0	0	0	0	0	-1	-1.01	1	1	0	1200	1200	0
5/17/2024 22:17	15203	SFAR_T2	0	2	2	0	0.1	0.1	-1.27	-1.25	0	0	0	0	0	0
5/17/2024 22:17	64403	LAND_T1	0	0	0	0	0	0	-1.67	-1.38	1	1	0	900	900	0
5/17/2024 22:17	12505	MITR_T2	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
5/17/2024 22:17	62605	ENGL_T1	0	2	2	0	0.1	0.1	-0.76	-0.82	0	0	0	0	0	0
5/17/2024 22:17	22003	BOHE_T1	1	51	50	1.4	0.17	-1.23	0	0	0	0	0	0	0	0
5/17/2024 22:17	62607	ENGL_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:17	67601	WARW_T2	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
5/17/2024 22:17	42903	MIDD_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:17	52402	GRPA_T2	4	4	0	0.58	0.8	0.22	0	0	0	0	0	0	0	0
5/17/2024 22:17	58003	WCAR_T1	41	54	13	0.19	0.2	0.01	0.59	0.58	0	0	0	0	0	0
5/17/2024 22:17	64501	LAVI_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
5/17/2024 22:17	43302	WATS_T2	4	4	0	0.78	0.75	-0.03	0	0	0	0	0	0	0	0
5/17/2024 22:17	64701	LITI_T1	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
5/17/2024 22:17	53901	HALI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/17/2024 22:17	12502	MITR_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:17	22002	BOHE_T1	0	1	1	0	0.2	0.2	0.31	0.31	0	0	0	0	0	0
5/17/2024 22:17	22001	BOHE_T1	0	22	22	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:17	52404	GRPA_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
5/17/2024 22:17	65904	SAKR_T2	0	0	0	0	0	0	-1.37	-1.7	3	3	0	1500	1500	0
5/17/2024 22:17	24101	EHAZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/17/2024 22:17	49804	UNIV_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/17/2024 22:17	65901	SAKR_T2	1	1	0	8.6	8.9	0.3	0	0	0	0	0	0	0	0
5/17/2024 22:17	67203	TEHI_T1	0	0	0	0	0	0	1.37	1.55	1	1	0	900	900	0
5/17/2024 22:17	42902	MIDD_T2	0	0	0	0	0	0	-1.22	-1.23	1	1	0	600	600	0
5/17/2024 22:18	65802	RTWN_T2	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
5/17/2024 22:18	15203	SFAR_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:18	60501	NMAN_T2	3	3	0	4.4	4.17	-0.23	0	0	0	0	0	0	0	0
5/17/2024 22:18	29402	BELT_T1	1	1	0	7.7	8.3	0.6	0	0	0	0	0	0	0	0
5/17/2024 22:18	67803	WLAN_T1	51	251	200	0.1	0.13	0.03	0	0	0	0	0	0	0	0
5/17/2024 22:18	52006	LING_T2	2	2	0	0.5	0.75	0.25	0	0	0	0	0	0	0	0
5/17/2024 22:18	29401	BELT_T1	0	2	2	0	0.1	0.1	0	0	1	1	0	900	900	0
5/17/2024 22:18	67804	WLAN_T1	13	89	76	0.11	0.16	0.05	-1.1	-1.1	0	0	0	0	0	0
5/17/2024 22:18	41902	REED_T1	0	0	0	0	0	0	1.01	0.96	0	0	0	0	0	0
5/17/2024 22:18	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:18	58402	MORO_T1	0	0	0	0	0	0	-0.53	-0.52	2	2	0	1500	1500	0
5/17/2024 22:18	52101	MEIS_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
5/17/2024 22:18	63801	HEMP_T1	0	0	0	0	0	0	-0.24	-0.38	0	0	0	0	0	0
5/17/2024 22:18	41901	REED_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:18	60502	NMAN_T2	0	0	0	0	0	0	-0.5	-0.6	0	0	0	0	0	0
5/17/2024 22:18	60101	COCA_T1	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
5/17/2024 22:18	67802	WLAN_T1	3	8	5	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/17/2024 22:18	40602	PIGR_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/17/2024 22:18	28403	HART_T2	0	0	0	0	0	0	-0.91	-0.93	1	1	0	900	900	0
5/17/2024 22:18	58003	WCAR_T1	41	54	13	0.19	0.2	0.01	0	0	0	0	0	0	0	0
5/17/2024 22:18	52401	GRPA_T2	1	2	1	0.3	0.65	0.35	0	0	0	0	0	0	0	0
5/17/2024 22:18	23001	SAJO_T1	0	1	1	0	0.1	0.1	0.11	0.11	0	0	0	0	0	0
5/17/2024 22:18	62605	ENGL_T1	0	2	2	0	0.1	0.1	-0.76	-0.82	0	0	0	0	0	0
5/17/2024 22:18	47403	PENS_T1	42	17	-25	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
5/17/2024 22:18	58001	WCAR_T1	7	8	1	1.01	0.9	-0.11	0.66	0.72	0	0	0	0	0	0
5/17/2024 22:18	67703	WERN_T2	0	0	0	0	0	0	-0.32	-0.31	1	1	0	900	900	0
5/17/2024 22:18	15204	SFAR_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
5/17/2024 22:18	14404	SSLA_T1	1	1	0	5.1	5.3	0.2	-0.02	-0.02	0	0	0	0	0	0
5/17/2024 22:18	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/17/2024 22:18	67203	TEHI_T1	0	0	0	0	0	0	1.37	1.55	1	1	0	900	900	0
5/17/2024 22:18	46001	BERW_T1	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
5/17/2024 22:18	59101	WALK_T2	0	0	0	0	0	0	0.83	0.8	0	0	0	0	0	0
5/17/2024 22:18	47401	PENS_T1	0	0	0	0	0	0	0.83	0.81	0	0	0	0	0	0
5/17/2024 22:18	64701	LITI_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
5/17/2024 22:18	52002	LING_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/17/2024 22:18	43302	WATS_T2	4	4	0	0.78	0.75	-0.03	0	0	0	0	0	0	0	0
5/17/2024 22:18	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.55	0	0	0	0	0	0
5/17/2024 22:18	52004	LING_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
5/17/2024 22:18	43301	WATS_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:18	52402	GRPA_T2	4	4	0	0.58	0.8	0.22	-0.92	-0.92	0	0	0	0	0	0
5/17/2024 22:18	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/17/2024 22:18	52404	GRPA_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
5/17/2024 22:18	14801	TREI_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
5/17/2024 22:18	67805	WLAN_T1	443	501	58	0.33	0.44	0.11	-1.52	-1.52	0	0	0	0	0	0
5/17/2024 22:18	27502	WEIS_T2	0	0	0	0	0	0	-0.24	-0.2	0	0	0	0	0	0
5/17/2024 22:18	64501	LAVI_T1	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
5/17/2024 22:18	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
5/17/2024 22:18	63804	HEMP_T1	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/17/2024 22:18	67801	WLAN_T1	1	19	18	0.1	0.11	0.01	0	0	0	0	0	0	0	0
5/17/2024 22:18	62607	ENGL_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:18	40601	PIGR_T1	0	1	1	0	0.1	0.1	-0.19	-0.21	0	0	0	0	0	0
5/17/2024 22:19	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/17/2024 22:19	45402	WBLO_T2	2	2	0	0.7	0.6	-0.1	-0.85	-0.85	0	0	0	0	0	0
5/17/2024 22:19	12505	MITR_T2	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
5/17/2024 22:19	50501	MECH_T1	4	4	0	0.83	0.85	0.02	0	0	0	0	0	0	0	0
5/17/2024 22:19	60501	NMAN_T2	3	3	0	4.4	4.17	-0.23	0	0	0	0	0	0	0	0
5/17/2024 22:19	50506	MECH_T1	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
5/17/2024 22:19	64403	LAND_T1	0	0	0	0	0	0	-1.67	-1.38	1	1	0	900	900	0
5/17/2024 22:19	22003	BOHE_T1	1	51	50	1.4	0.17	-1.23	0	0	0	0	0	0	0	0
5/17/2024 22:19	66505	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:19	24603	VARD_T2	122	262	140	0.25	0.29	0.04	0	0	0	0	0	0	0	0
5/17/2024 22:19	65503	MOJO_T2	1	0	-1	3.1	0	-3.1	0	0	0	0	0	0	0	0
5/17/2024 22:19	63804	HEMP_T1	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:19	52404	GRPA_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
5/17/2024 22:19	59003	MIFF_T1	0	0	0	0	0	0	0.55	0.42	0	0	0	0	0	0
5/17/2024 22:19	53901	HALI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/17/2024 22:19	20601	GRWO_T2	6	0	-6	1.43	0	-1.43	0	0	0	0	0	0	0	0
5/17/2024 22:19	66703	STRA_T1	3	6	3	0.2	0.28	0.08	-0.32	-0.41	0	0	0	0	0	0
5/17/2024 22:19	20603	GRWO_T2	1	0	-1	0.1	0	-0.1	0.31	0.34	0	0	0	0	0	0
5/17/2024 22:19	49804	UNIV_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/17/2024 22:19	52401	GRPA_T2	1	2	1	0.3	0.65	0.35	0	0	1	0	0	0	0	0
5/17/2024 22:19	14401	SSLA_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
5/17/2024 22:19	63801	HEMP_T1	0	0	0	0	0	0	-0.24	-0.38	0	0	0	0	0	0
5/17/2024 22:19	55002	NEWP_T1	6	6	0	0.73	1.03	0.3	-0.29	-0.29	0	0	0	0	0	0
5/17/2024 22:19	63802	HEMP_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
5/17/2024 22:19	64505	HAMI_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
5/17/2024 22:19	50502	MECH_T1	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
5/17/2024 22:19	45501	DERR_T2	0	0	0	0	0	0	-0.55	-0.45	2	2	0	1800	1800	0
5/17/2024 22:19	29401	BELT_T1	0	2	2	0	0.1	0.1	0	0	1	1	0	900	900	0
5/17/2024 22:19	43201	MVIL_T2	78	79	1	0.23	0.23	0	0	0	0	0	0	0	0	0
5/17/2024 22:19	67803	WLAN_T1	51	251	200	0.1	0.13	0.03	-1.78	-1.84	0	0	0	0	0	0
5/17/2024 22:19	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
5/17/2024 22:19	43202	MVIL_T2	436	465	29	0.85	0.84	-0.01	-0.69	-0.69	0	0	0	0	0	0
5/17/2024 22:19	49803	UNIV_T1	0	0	0	0	0	0	0.19	0.11	0	0	0	0	0	0
5/17/2024 22:19	62105	ELAN_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
5/17/2024 22:19	14404	SSLA_T1	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
5/17/2024 22:19	15203	SFAR_T2	0	2	2	0	0.1	0.1	-1.27	-1.25	0	0	0	0	0	0
5/17/2024 22:19	66502	SMAN_T2	0	0	0	0	0	0	0	-0.12	0	0	0	0	0	0
5/17/2024 22:19	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:19	43301	WATS_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:19	64503	LAVI_T1	0	0	0	0	0	0	0.9	0.86	0	0	0	0	0	0
5/17/2024 22:19	67805	WLAN_T1	443	501	58	0.33	0.44	0.11	0	0	0	0	0	0	0	0
5/17/2024 22:19	22001	BOHE_T1	0	22	22	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:19	60902	DONG_T2	0	0	0	0	0	0	0.74	0.7	0	0	0	0	0	0
5/17/2024 22:19	29402	BELT_T1	1	1	0	7.7	8.3	0.6	0	0	0	0	0	0	0	0
5/17/2024 22:19	60502	NMAN_T2	0	0	0	0	0	0	-0.5	-0.6	0	0	0	0	0	0
5/17/2024 22:19	64801	MONE_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/17/2024 22:19	53903	HALI_T2	2	2	0	1.4	1.5	0.1	-0.22	-0.22	0	0	0	0	0	0
5/17/2024 22:19	51107	CARL_T1	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
5/17/2024 22:19	52403	GRPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:19	65402	MARI_T1	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
5/17/2024 22:19	43302	WATS_T2	4	4	0	0.78	0.75	-0.03	0	0	0	0	0	0	0	0
5/17/2024 22:19	14802	TREI_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
5/17/2024 22:19	67802	WLAN_T1	3	8	5	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/17/2024 22:19	12502	MITR_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:19	44501	HAMI_T2	16	14	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
5/17/2024 22:19	52402	GRPA_T2	4	4	0	0.58	0.8	0.22	0	0	0	0	0	0	0	0
5/17/2024 22:19	20403	ASHF_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
5/17/2024 22:19	67804	WLAN_T1	13	89	76	0.11	0.16	0.05	-1.1	-1.1	0	0	0	0	0	0
5/17/2024 22:19	22002	BOHE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/17/2024 22:19	44503	HAMI_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:19	64802	MONE_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
5/17/2024 22:19	67801	WLAN_T1	1	19	18	0.1	0.11	0.01	0	0	0	0	0	0	0	0
5/17/2024 22:19	24602	VARD_T2	809	972	163	1.06	1.13	0.07	-1.05	-1.05	0	0	0	0	0	0
5/17/2024 22:19	44502	HAMI_T2	1	1	0	3.8	3.8	0	0	0	0	0	0	0	0	0
5/17/2024 22:19	65502	MOJO_T2	0	0	0	0	0	0	-0.96	-0.95	1	1	0	900	900	0
5/17/2024 22:20	14404	SSLA_T1	1	1	0	5.1	5.3	0.2	-0.02	-0.02	0	0	0	0	0	0
5/17/2024 22:20	52404	GRPA_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
5/17/2024 22:20	52401	GRPA_T2	1	2	1	0.3	0.65	0.35	0	0	0	0	0	0	0	0
5/17/2024 22:20	56501	ROCK_T2	2	2	0	0.4	0.5	0.1	83.96	83.96	0	0	0	0	0	0
5/17/2024 22:20	52402	GRPA_T2	4	4	0	0.58	0.8	0.22	-0.92	-0.92	0	0	0	0	0	0
5/17/2024 22:20	45402	WBLO_T2	2	2	0	0.7	0.6	-0.1	-0.85	-0.85	0	0	0	0	0	0
5/17/2024 22:20	14802	TREI_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
5/17/2024 22:20	43302	WATS_T2	4	4	0	0.78	0.75	-0.03	0	0	0	0	0	0	0	0
5/17/2024 22:20	64503	LAVI_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
5/17/2024 22:20	40901	JESH_T1	90	133	43	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:20	49804	UNIV_T1	1	1	0	0.2	0.4	0.2	0.46	0.43	0	0	0	0	0	0
5/17/2024 22:20	43301	WATS_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:20	29402	BELT_T1	1	1	0	7.7	8.3	0.6	0	0	0	0	0	0	0	0
5/17/2024 22:20	40602	PIGR_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/17/2024 22:20	40601	PIGR_T1	0	1	1	0	0.1	0.1	-0.19	-0.21	0	0	0	0	0	0
5/17/2024 22:20	61701	ELIZ_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:20	29401	BELT_T1	0	2	2	0	0.1	0.1	0	0	1	1	0	900	900	0
5/17/2024 22:20	61703	ELIZ_T1	0	0	0	0	0	0	-2.4	-2.4	2	2	0	2100	2100	0
5/17/2024 22:20	64401	LAND_T1	0	0	0	0	0	0	-1.17	-1.16	1	1	0	600	600	0
5/17/2024 22:20	40902	JESH_T1	243	409	166	0.18	0.24	0.06	-0.82	-0.88	0	0	0	0	0	0
5/17/2024 22:20	40903	JESH_T1	76	150	74	0.12	0.19	0.07	0	0	0	0	0	0	0	0
5/17/2024 22:20	15203	SFAR_T2	0	2	2	0	0.1	0.1	-3.81	-3.75	0	0	0	0	0	0
5/17/2024 22:20	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:20	58401	MORO_T1	0	0	0	0	0	0	-2.54	-2.54	2	2	0	1200	1200	0
5/17/2024 22:21	62602	ENGL_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/17/2024 22:21	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:21	64701	LITI_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
5/17/2024 22:21	62605	ENGL_T1	0	2	2	0	0.1	0.1	-0.76	-0.82	0	0	0	0	0	0
5/17/2024 22:21	62604	ENGL_T1	0	0	0	0	0	0	-0.4	-0.26	1	1	0	600	600	0
5/17/2024 22:21	64401	LAND_T1	0	0	0	0	0	0	-1.17	-1.16	1	1	0	600	600	0
5/17/2024 22:21	52101	MEIS_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
5/17/2024 22:21	67605	WARW_T1	14	14	0	0.44	0.51	0.07	-1.26	-1.28	0	0	0	0	0	0
5/17/2024 22:21	61801	EELI_T2	0	1	1	0	0.1	0.1	-0.91	-0.9	1	1	0	600	600	0
5/17/2024 22:21	62607	ENGL_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:21	42503	ALTA_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
5/17/2024 22:21	58401	MORO_T1	0	0	0	0	0	0	-1.27	-1.27	1	1	0	600	600	0
5/17/2024 22:22	40602	PIGR_T1	1	1	0	0.5	0	-0.5	0.52	0.53	0	0	0	0	0	0
5/17/2024 22:22	20601	GRWO_T2	6	0	-6	1.43	0	-1.43	-0.29	-0.29	0	0	0	0	0	0
5/17/2024 22:22	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:22	61703	ELIZ_T1	0	0	0	0	0	0	-2.4	-2.4	2	2	0	2100	2100	0
5/17/2024 22:22	47403	PENS_T1	42	17	-25	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
5/17/2024 22:22	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
5/17/2024 22:22	61704	ELIZ_T2	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
5/17/2024 22:22	42903	MIDD_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:22	61701	ELIZ_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:22	15001	BLMO_T1	4	5	1	0.28	0.64	0.36	0	0	0	0	0	0	0	0
5/17/2024 22:22	53501	EVIL_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
5/17/2024 22:22	64501	LAVI_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
5/17/2024 22:22	53502	EVIL_T2	0	0	0	0	0	0	0.58	0.65	0	0	0	0	0	0
5/17/2024 22:22	11303	EMMA_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
5/17/2024 22:22	42902	MIDD_T2	0	0	0	0	0	0	-1.22	-1.23	1	1	0	600	600	0
5/17/2024 22:22	20603	GRWO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:22	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.76	0	0	0	0	0	0
5/17/2024 22:22	47401	PENS_T1	0	0	0	0	0	0	0.83	0.81	0	0	0	0	0	0
5/17/2024 22:22	61702	ELIZ_T2	0	0	0	0	0	0	-0.95	-0.99	1	1	0	300	300	0
5/17/2024 22:22	67703	WERN_T2	0	0	0	0	0	0	-0.64	-0.62	2	2	0	1800	1800	0
5/17/2024 22:23	66703	STRA_T1	3	6	3	0.2	0.28	0.08	0	0	0	0	0	0	0	0
5/17/2024 22:23	58001	WCAR_T1	7	8	1	1.01	0.9	-0.11	0	0	0	0	0	0	0	0
5/17/2024 22:23	43201	MVIL_T2	78	79	1	0.23	0.23	0	0	0	0	0	0	0	0	0
5/17/2024 22:23	63304	GREE_T1	0	0	0	0	0	0	-0.45	-0.49	0	0	0	0	0	0
5/17/2024 22:23	52101	MEIS_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
5/17/2024 22:23	40601	PIGR_T1	0	1	1	0	0.1	0.1	-0.21	-0.22	0	0	0	0	0	0
5/17/2024 22:23	15103	UPHA_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
5/17/2024 22:23	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:23	41901	REED_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/17/2024 22:23	67605	WARW_T1	14	14	0	0.44	0.51	0.07	-2.57	-2.54	0	0	0	0	0	0
5/17/2024 22:23	65205	PRIN_T1	1	1	0	1.9	2.1	0.2	0	0	0	0	0	0	0	0
5/17/2024 22:23	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:23	40801	EXCH_T2	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0	0
5/17/2024 22:23	43202	MVIL_T2	436	465	29	0.85	0.84	-0.01	-0.69	-0.69	0	0	0	0	0	0
5/17/2024 22:23	67703	WERN_T2	0	0	0	0	0	0	-0.62	-0.7	2	2	0	1800	1800	0
5/17/2024 22:23	64401	LAND_T1	0	0	0	0	0	0	-1.16	-1.21	1	1	0	600	600	0
5/17/2024 22:23	51108	CARL_T1	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
5/17/2024 22:23	44302	BEAV_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
5/17/2024 22:23	41902	REED_T1	0	0	0	0	0	0	0.96	1.01	0	0	0	0	0	0
5/17/2024 22:23	42903	MIDD_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:23	40602	PIGR_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/17/2024 22:23	17804	GILB_T2	0	12	12	0	0.13	0.13	-0.58	-0.59	0	0	0	0	0	0
5/17/2024 22:23	60801	BUCK_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
5/17/2024 22:23	66701	STRA_T1	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
5/17/2024 22:23	61102	BERK_T5	0	0	0	0	0	0	0.4	0.47	1	1	0	300	300	0
5/17/2024 22:23	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:23	58003	WCAR_T1	41	54	13	0.19	0.2	0.01	0.58	0.58	0	0	0	0	0	0
5/17/2024 22:23	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:23	42902	MIDD_T2	0	0	0	0	0	0	-2.45	-2.47	2	2	0	1200	1200	0
5/17/2024 22:23	64503	LAVI_T1	0	0	0	0	0	0	0.86	0.79	0	0	0	0	0	0
5/17/2024 22:23	64501	LAVI_T1	0	0	0	0	0	0	-1.11	-1.17	0	0	0	0	0	0
5/17/2024 22:23	58402	MORO_T1	0	0	0	0	0	0	-0.52	-0.57	2	2	0	1500	1500	0
5/17/2024 22:24	60502	NMAN_T2	0	0	0	0	0	0	-0.6	-0.55	0	0	0	0	0	0
5/17/2024 22:24	64503	LAVI_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
5/17/2024 22:24	42902	MIDD_T2	0	0	0	0	0	0	-1.23	-1.29	1	1	0	600	600	0
5/17/2024 22:24	61102	BERK_T5	0	0	0	0	0	0	0.4	0.47	1	1	0	300	300	0
5/17/2024 22:24	67703	WERN_T2	0	0	0	0	0	0	-0.62	-0.7	2	2	0	1800	1800	0
5/17/2024 22:24	63302	GREE_T1	0	0	0	0	0	0	0.35	0.31	0	0	0	0	0	0
5/17/2024 22:24	42903	MIDD_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/17/2024 22:24	66703	STRA_T1	3	6	3	0.2	0.28	0.08	-0.41	-0.41	0	0	0	0	0	0
5/17/2024 22:24	13704	SCHN_T2	0	4	4	0	0.15	0.15	-0.4	-0.42	0	0	0	0	0	0
5/17/2024 22:24	60501	NMAN_T2	3	3	0	4.4	4.17	-0.23	0	0	0	0	0	0	0	0
5/17/2024 22:25	11301	EMMA_T1	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
5/17/2024 22:25	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:25	40802	EXCH_T2	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
5/17/2024 22:25	64503	LAVI_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
5/17/2024 22:25	52101	MEIS_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
5/17/2024 22:25	54203	PENN_T1	18	18	0	0.92	0.92	0	0.02	0.01	1	1	0	600	600	0
5/17/2024 22:25	52404	GRPA_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
5/17/2024 22:25	52402	GRPA_T2	4	4	0	0.58	0.8	0.22	-0.92	-0.92	0	0	0	0	0	0
5/17/2024 22:25	54201	PENN_T1	10	7	-3	0.4	0.43	0.03	0	0	0	0	0	0	0	0
5/17/2024 22:25	52401	GRPA_T2	1	2	1	0.3	0.65	0.35	0	0	0	0	0	0	0	0
5/17/2024 22:26	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2024 22:30	15702	TANN_T2	34	63	29	0.15	0.21	0.06	-0.46	-0.47	0	0	0	0	0	0
5/17/2024 22:30	15703	TANN_T2	1	4	3	4.8	1.25	-3.55	0	0	0	0	0	0	0	0
5/17/2024 22:33	43701	WILL_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
5/17/2024 22:33	43703	WILL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/17/2024 22:33	43705	WILL_T1	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/17/2024 22:33	43702	WILL_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
5/17/2024 22:33	43704	WILL_T1	1	1	0	1.6	1.1	-0.5	0	0	0	0	0	0	0	0
5/17/2024 22:34	61103	BERK_T5	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
5/17/2024 22:35	15703	TANN_T2	1	4	3	4.8	1.25	-3.55	0	0	0	0	0	0	0	0
5/17/2024 22:35	15702	TANN_T2	34	63	29	0.15	0.21	0.06	-0.46	-0.47	0	0	0	0	0	0
5/17/2024 22:37	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/17/2024 22:49	61103	BERK_T5	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
5/17/2024 22:51	67805	WLAN_T1	0	34	34	0	0.11	0.11	0	0	0	0	0	0	0	0
5/17/2024 22:51	67804	WLAN_T1	0	0	0	0	0	0	-1.11	-1.12	0	0	0	0	0	0
5/17/2024 22:59	15204	SFAR_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
5/17/2024 22:59	15203	SFAR_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/17/2024 23:01	62607	ENGL_T1	1	1	0	2.1	2.9	0.8	-1.14	-1.15	1	1	0	300	300	0
5/17/2024 23:44	67804	WLAN_T1	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
5/17/2024 23:49	50506	MECH_T1	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
5/17/2024 23:49	50501	MECH_T1	4	5	1	1.28	1.55	0.27	0	0	0	0	0	0	0	0
5/17/2024 23:49	50502	MECH_T1	1	1	0	2.6	2.8	0.2	0	0	0	0	0	0	0	0
5/18/2024 0:06	54501	ENOL_T2	4	0	-4	0.58	0	-0.58	0	0	0	0	0	0	0	0
5/18/2024 0:06	54505	ENOL_T2	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
5/18/2024 0:06	54503	ENOL_T2	0	0	0	0	0	0	-1.99	-1.98	1	1	0	600	600	0
5/18/2024 0:06	54502	ENOL_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
5/18/2024 0:30	67603	WARW_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
5/18/2024 0:30	67605	WARW_T1	18	29	11	0.76	0.59	-0.17	0	0	0	0	0	0	0	0
5/18/2024 3:21	65901	SAKR_T2	1	1	0	9.1	9.2	0.1	-1.59	-1.57	1	1	0	900	900	0
5/18/2024 4:48	17802	GILB_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
5/18/2024 6:26	15001	BLMO_T1	4	4	0	0.78	0.5	-0.28	0	0	0	0	0	0	0	0
5/18/2024 6:47	13303	ORVI_T1	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
5/18/2024 6:48	13303	ORVI_T1	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
5/18/2024 7:00	12502	MITR_T2	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
5/18/2024 7:00	12505	MITR_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
5/18/2024 7:03	12505	MITR_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
5/18/2024 7:03	12502	MITR_T2	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
5/18/2024 7:03	13303	ORVI_T1	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
5/18/2024 7:04	12502	MITR_T2	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
5/18/2024 7:04	12505	MITR_T2	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
5/18/2024 7:05	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/18/2024 7:05	29402	BELT_T1	1	1	0	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
5/18/2024 7:08	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/18/2024 7:08	29402	BELT_T1	1	1	0	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
5/18/2024 7:15	12006	HATF_T1	0	0	0	0	0	0	0.4	0.49	0	0	0	0	0	0
5/18/2024 7:19	13801	SALI_T1	0	0	0	0	0	0	0.8	0.76	0	0	0	0	0	0
5/18/2024 7:24	22001	BOHE_T1	0	10	10	0	0.13	0.13	0	0	0	0	0	0	0	0
5/18/2024 7:24	22002	BOHE_T1	0	1	1	0	0.1	0.1	0.28	0.31	0	0	0	0	0	0
5/18/2024 7:24	22003	BOHE_T1	1	26	25	1.2	0.22	-0.98	0	0	0	0	0	0	0	0
5/18/2024 7:25	22001	BOHE_T1	0	10	10	0	0.13	0.13	0.21	0.22	0	0	0	0	0	0
5/18/2024 7:25	22002	BOHE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/18/2024 7:25	22003	BOHE_T1	1	26	25	1.2	0.22	-0.98	0	0	0	0	0	0	0	0
5/18/2024 7:35	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/18/2024 7:35	29402	BELT_T1	1	1	0	7.6	7.5	-0.1	0	0	0	0	0	0	0	0
5/18/2024 7:36	29402	BELT_T1	1	1	0	7.6	7.5	-0.1	0	0	0	0	0	0	0	0
5/18/2024 7:36	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/18/2024 7:45	44505	HAMI_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
5/18/2024 7:45	44502	HAMI_T2	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
5/18/2024 7:45	44501	HAMI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/18/2024 7:55	15702	TANN_T2	0	1	1	0	0	0	-0.51	-0.46	0	0	0	0	0	0
5/18/2024 7:55	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
5/18/2024 8:07	20403	ASHF_T2	0	0	0	0	0	0	0.01	0.06	0	0	0	0	0	0
5/18/2024 8:08	29402	BELT_T1	1	1	0	7.5	7.1	-0.4	0	0	0	0	0	0	0	0
5/18/2024 8:08	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/18/2024 8:10	20403	ASHF_T2	0	0	0	0	0	0	0.06	0.09	0	0	0	0	0	0
5/18/2024 8:11	20403	ASHF_T2	0	0	0	0	0	0	0.06	0.09	0	0	0	0	0	0
5/18/2024 8:23	56803	BENV_T1	1	0	-1	0.6	0	-0.6	-0.14	-0.13	0	0	0	0	0	0
5/18/2024 8:23	56801	BENV_T1	6	13	7	1.28	1.35	0.07	0	0	0	0	0	0	0	0
5/18/2024 8:38	29402	BELT_T1	1	1	0	7.1	6.8	-0.3	0	0	0	0	0	0	0	0
5/18/2024 8:38	41902	REED_T1	0	0	0	0	0	0	0.81	0.75	0	0	0	0	0	0
5/18/2024 8:40	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/18/2024 8:40	29402	BELT_T1	1	1	0	7.1	6.8	-0.3	0	0	0	0	0	0	0	0
5/18/2024 8:48	41902	REED_T1	0	0	0	0	0	0	0.81	0.75	0	0	0	0	0	0
5/18/2024 9:05	29402	BELT_T1	1	1	0	6.8	6.5	-0.3	0	0	0	0	0	0	0	0
5/18/2024 9:05	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/18/2024 9:10	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
5/18/2024 9:10	20403	ASHF_T2	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
5/18/2024 9:10	15702	TANN_T2	1	1	0	0.8	0.8	0	-0.45	-0.48	0	0	0	0	0	0
5/18/2024 9:16	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/18/2024 9:18	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/18/2024 9:21	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/18/2024 9:21	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/18/2024 9:21	29402	BELT_T1	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
5/18/2024 9:24	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 9:25	40504	CRES_T1	0	0	0	0	0	0	-1.32	-1.34	0	0	0	0	0	0
5/18/2024 9:25	40505	CRES_T1	3	3	0	4.83	4.57	-0.26	0	0	0	0	0	0	0	0
5/18/2024 9:25	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 9:26	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 9:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 9:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 9:30	40502	CRES_T2	0	9	9	0	0.24	0.24	0.47	-0.1	0	0	0	0	0	0
5/18/2024 9:30	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 9:40	29402	BELT_T1	1	1	0	6.3	7.1	0.8	0	0	0	0	0	0	0	0
5/18/2024 9:40	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/18/2024 9:41	45901	AUBU_T1	0	0	0	0	0	0	1.07	1.08	0	0	0	0	0	0
5/18/2024 9:45	40101	HUNT_T2	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
5/18/2024 9:47	26704	HEML_T2	53	75	22	0.17	0.23	0.06	-0.84	-0.82	1	1	0	1200	1200	0
5/18/2024 9:50	41902	REED_T1	0	0	0	0	0	0	0.82	0.87	0	0	0	0	0	0
5/18/2024 9:51	41902	REED_T1	0	0	0	0	0	0	0.82	0.87	0	0	0	0	0	0
5/18/2024 9:52	40301	TAMA_T3	1	1	0	0	0	0	0.65	0.63	1	1	0	1200	1200	0
5/18/2024 9:53	45902	AUBU_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
5/18/2024 10:00	40505	CRES_T1	3	3	0	4.53	4.7	0.17	0.32	0.34	0	0	0	0	0	0
5/18/2024 10:00	57203	ROSS_T1	0	0	0	0	0	0	-0.36	-0.33	0	0	0	0	0	0
5/18/2024 10:00	41902	REED_T1	0	0	0	0	0	0	0.87	0.88	0	0	0	0	0	0
5/18/2024 10:00	15203	SFAR_T2	0	0	0	0	0	0	-1.31	-1.24	0	0	0	0	0	0
5/18/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-1.34	-1.31	1	1	0	900	900	0
5/18/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	1.26	1.28	0	0	0	0	0	0
5/18/2024 10:06	41902	REED_T1	0	0	0	0	0	0	0.87	0.88	0	0	0	0	0	0
5/18/2024 10:07	67503	WEWI_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
5/18/2024 10:07	41902	REED_T1	0	0	0	0	0	0	1.74	1.76	0	0	0	0	0	0
5/18/2024 10:07	13303	ORVI_T1	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
5/18/2024 10:08	22002	BOHE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/18/2024 10:08	20401	ASHF_T2	0	1	1	0	0.1	0.1	-0.33	-0.31	0	0	0	0	0	0
5/18/2024 10:08	22001	BOHE_T1	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
5/18/2024 10:08	22003	BOHE_T1	17	27	10	0.24	0.27	0.03	0	0	0	0	0	0	0	0
5/18/2024 10:08	29402	BELT_T1	1	1	0	7.1	7	-0.1	0	0	0	0	0	0	0	0
5/18/2024 10:08	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/18/2024 10:09	16402	MOPO_T1	0	0	0	0	0	0	0.02	0.1	0	0	0	0	0	0
5/18/2024 10:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/18/2024 10:10	29402	BELT_T1	1	1	0	7.1	7	-0.1	0	0	0	0	0	0	0	0
5/18/2024 10:12	63804	HEMP_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
5/18/2024 10:12	63801	HEMP_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
5/18/2024 10:15	63305	GREE_T1	0	0	0	0	0	0	-2.36	-2.34	1	1	0	900	900	0
5/18/2024 10:16	40101	HUNT_T2	0	0	0	0	0	0	-0.58	-0.62	0	0	0	0	0	0
5/18/2024 10:16	63305	GREE_T1	0	0	0	0	0	0	-2.36	-2.34	1	1	0	900	900	0
5/18/2024 10:17	43202	MVIL_T2	47	8	-39	0.21	0.13	-0.08	-0.68	-0.69	0	0	0	0	0	0
5/18/2024 10:18	22602	KIMB_T1	1	1	0	0.3	0.2	-0.1	0.34	0.33	0	0	0	0	0	0
5/18/2024 10:19	43202	MVIL_T2	47	8	-39	0.21	0.13	-0.08	-0.68	-0.69	0	0	0	0	0	0
5/18/2024 10:19	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
5/18/2024 10:21	29402	BELT_T1	1	1	0	7	6.7	-0.3	0	0	0	0	0	0	0	0
5/18/2024 10:22	29401	BELT_T1	0	0	0	0	0	0	0	0	5	5	0	4500	4500	0
5/18/2024 10:22	29402	BELT_T1	1	1	0	7	6.7	-0.3	0	0	0	0	0	0	0	0
5/18/2024 10:22	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
5/18/2024 10:23	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/18/2024 10:23	20403	ASHF_T2	0	0	0	0	0	0	0.17	0.12	0	0	0	0	0	0
5/18/2024 10:23	29402	BELT_T1	1	1	0	7	6.7	-0.3	0	0	0	0	0	0	0	0
5/18/2024 10:23	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/18/2024 10:23	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
5/18/2024 10:25	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
5/18/2024 10:27	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
5/18/2024 10:28	46801	HEPB_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
5/18/2024 10:28	45901	AUBU_T1	0	0	0	0	0	0	1.1	1.08	0	0	0	0	0	0
5/18/2024 10:39	45901	AUBU_T1	0	0	0	0	0	0	1.08	1.06	0	0	0	0	0	0
5/18/2024 10:45	46506	LOHA_T1	1	1	0	0.7	0.3	-0.4	-0.51	-0.42	0	0	0	0	0	0
5/18/2024 10:45	63304	GREE_T1	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
5/18/2024 10:46	63304	GREE_T1	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
5/18/2024 10:47	46506	LOHA_T1	1	1	0	0.7	0.3	-0.4	-0.51	-0.42	0	0	0	0	0	0
5/18/2024 10:48	46506	LOHA_T1	1	1	0	0.7	0.3	-0.4	-1.02	-0.84	0	0	0	0	0	0
5/18/2024 10:49	66502	SMAN_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
5/18/2024 10:49	46506	LOHA_T1	1	1	0	0.7	0.3	-0.4	-0.51	-0.42	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/18/2024 10:49	66504	SMAN_T2	0	0	0	0	0	0	-0.74	-1.02	0	0	0	0	0	0
5/18/2024 10:50	66504	SMAN_T2	0	0	0	0	0	0	-0.37	-0.51	0	0	0	0	0	0
5/18/2024 10:50	66902	SHIL_T2	0	0	0	0	0	0	-3.5	-3.56	0	0	0	0	0	0
5/18/2024 10:50	46506	LOHA_T1	1	1	0	0.7	0.3	-0.4	-0.51	-0.42	0	0	0	0	0	0
5/18/2024 10:51	66901	SHIL_T2	0	0	0	0	0	0	-1.4	-0.4	0	0	0	0	0	0
5/18/2024 10:52	45902	AUBU_T1	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
5/18/2024 10:52	29402	BELT_T1	1	1	0	6.7	7.1	0.4	0	0	0	0	0	0	0	0
5/18/2024 10:53	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/18/2024 10:53	67703	WERN_T2	0	0	0	0	0	0	-1.86	-1.92	2	2	0	1800	1800	0
5/18/2024 10:53	66902	SHIL_T2	0	0	0	0	0	0	-1.78	-1.77	0	0	0	0	0	0
5/18/2024 10:53	66504	SMAN_T2	0	0	0	0	0	0	-2.04	-2.11	0	0	0	0	0	0
5/18/2024 10:54	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/18/2024 10:54	45902	AUBU_T1	0	0	0	0	0	0	-0.92	-0.92	0	0	0	0	0	0
5/18/2024 10:54	66504	SMAN_T2	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
5/18/2024 10:55	67703	WERN_T2	0	0	0	0	0	0	-0.93	-0.96	1	1	0	900	900	0
5/18/2024 10:55	66901	SHIL_T2	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
5/18/2024 10:55	59101	WALK_T2	0	1	1	0	0	0	0.93	0.86	0	0	0	0	0	0
5/18/2024 10:57	52403	GRPA_T2	0	1	1	0	0	0	-0.58	-0.55	0	0	0	0	0	0
5/18/2024 11:00	64701	LITI_T1	0	0	0	0	0	0	0.21	0.11	0	0	0	0	0	0
5/18/2024 11:01	64701	LITI_T1	0	0	0	0	0	0	0.21	0.11	0	0	0	0	0	0
5/18/2024 11:01	65502	MOJO_T2	0	0	0	0	0	0	-0.81	-0.88	1	1	0	900	900	0
5/18/2024 11:02	63401	HONY_T1	0	0	0	0	0	0	0.26	0.36	0	0	0	0	0	0
5/18/2024 11:02	63404	HONY_T1	22	47	25	0.15	0.2	0.05	0	0	0	0	0	0	0	0
5/18/2024 11:02	17802	GILB_T1	0	1	1	0	0.5	0.5	-0.03	0.05	0	0	0	0	0	0
5/18/2024 11:05	65503	MOJO_T2	0	0	0	0	0	0	-1.15	-1.25	1	1	0	900	900	0
5/18/2024 11:05	65502	MOJO_T2	0	0	0	0	0	0	-0.81	-0.88	1	1	0	900	900	0
5/18/2024 11:06	64701	LITI_T1	0	0	0	0	0	0	0.21	0.11	0	0	0	0	0	0
5/18/2024 11:06	65503	MOJO_T2	0	0	0	0	0	0	-1.15	-1.25	1	1	0	900	900	0
5/18/2024 11:09	67703	WERN_T2	0	0	0	0	0	0	-2.88	-2.85	3	3	0	2700	2700	0
5/18/2024 11:11	59101	WALK_T2	0	0	0	0	0	0	0.86	0.78	0	0	0	0	0	0
5/18/2024 11:12	10901	COOP_T2	0	0	0	0	0	0	0.75	0.73	0	0	0	0	0	0
5/18/2024 11:14	65503	MOJO_T2	0	0	0	0	0	0	-1.25	-1.19	1	1	0	900	900	0
5/18/2024 11:14	46801	HEPB_T2	0	2	2	0	0.2	0.2	0.58	0.61	0	0	0	0	0	0
5/18/2024 11:15	46801	HEPB_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/18/2024 11:15	46803	HEPB_T2	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
5/18/2024 11:16	46801	HEPB_T2	0	2	2	0	0.4	0.4	0.58	0.61	0	0	0	0	0	0
5/18/2024 11:19	60502	NMAN_T2	0	0	0	0	0	0	-0.44	-0.55	0	0	0	0	0	0
5/18/2024 11:19	60501	NMAN_T2	3	3	0	4.13	4.4	0.27	0	0	0	0	0	0	0	0
5/18/2024 11:23	66701	STRA_T1	0	0	0	0	0	0	-0.23	-0.21	1	1	0	600	600	0
5/18/2024 11:25	26603	BROO_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
5/18/2024 11:26	40505	CRES_T1	3	3	0	4.77	5.03	0.26	0	0	0	0	0	0	0	0
5/18/2024 11:26	60801	BUCK_T1	0	0	0	0	0	0	-0.85	-0.86	1	1	0	600	600	0
5/18/2024 11:26	40504	CRES_T1	0	0	0	0	0	0	-1.2	-1.16	0	0	0	0	0	0
5/18/2024 11:28	26603	BROO_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
5/18/2024 11:35	65503	MOJO_T2	0	0	0	0	0	0	-1.19	-1.2	1	1	0	900	900	0
5/18/2024 11:42	13503	MCMI_T2	1	31	30	0.1	0.17	0.07	-0.99	-0.01	0	0	0	0	0	0
5/18/2024 11:43	44301	BEAV_T2	0	0	0	0	0	0	-0.4	-0.39	1	1	0	600	600	0
5/18/2024 11:55	52402	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/18/2024 11:55	52403	GRPA_T2	0	1	1	0	0.3	0.3	-0.58	-0.61	0	0	0	0	0	0
5/18/2024 11:58	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 11:58	21206	ECAR_T2	16	16	0	0.99	1.47	0.48	-0.07	-0.07	0	0	0	0	0	0
5/18/2024 12:10	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 12:10	40502	CRES_T2	14	19	5	0.21	0.33	0.12	-0.2	-0.16	0	0	0	0	0	0
5/18/2024 12:11	44301	BEAV_T2	0	0	0	0	0	0	-0.41	-0.46	1	1	0	600	600	0
5/18/2024 12:11	40502	CRES_T2	14	19	5	0.21	0.33	0.12	-0.4	-0.32	0	0	0	0	0	0
5/18/2024 12:11	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 12:12	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 12:12	40502	CRES_T2	14	19	5	0.21	0.33	0.12	-0.6	-0.48	0	0	0	0	0	0
5/18/2024 12:13	40504	CRES_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
5/18/2024 12:13	40502	CRES_T2	14	19	5	0.21	0.33	0.12	-0.3	-0.24	0	0	0	0	0	0
5/18/2024 12:13	40505	CRES_T1	3	3	0	5.07	5.4	0.33	0	0	0	0	0	0	0	0
5/18/2024 12:13	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 12:14	40502	CRES_T2	14	19	5	0.21	0.33	0.12	-0.1	-0.08	0	0	0	0	0	0
5/18/2024 12:14	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 12:21	42903	MIDD_T2	2	2	0	0.95	1	0.05	-0.39	-0.31	0	0	0	0	0	0
5/18/2024 12:22	29402	BELT_T1	62	53	-9	0.51	0.46	-0.05	0	0	0	0	0	0	0	0
5/18/2024 12:23	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
5/18/2024 12:23	43202	MVIL_T2	33	45	12	0.19	0.18	-0.01	-0.71	-0.7	0	0	0	0	0	0
5/18/2024 12:28	40101	HUNT_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
5/18/2024 12:36	67605	WARW_T1	1	12	11	0.2	0.28	0.08	-2.23	-2.29	0	0	0	0	0	0
5/18/2024 12:37	13904	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 12:37	67605	WARW_T1	1	12	11	0.2	0.28	0.08	-1.11	-1.15	0	0	0	0	0	0
5/18/2024 12:37	13905	SEID_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
5/18/2024 12:39	67605	WARW_T1	1	12	11	0.2	0.28	0.08	-2.29	-2.29	0	0	0	0	0	0
5/18/2024 12:50	56501	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/18/2024 12:51	56501	ROCK_T2	0	0	0	0	0	0	167.92	167.92	0	0	0	0	0	0
5/18/2024 12:53	56501	ROCK_T2	0	0	0	0	0	0	167.92	167.92	0	0	0	0	0	0
5/18/2024 12:54	56501	ROCK_T2	0	0	0	0	0	0	167.92	167.92	0	0	0	0	0	0
5/18/2024 12:54	67703	WERN_T2	0	0	0	0	0	0	-2.76	-2.64	3	3	0	2700	2700	0
5/18/2024 12:57	67605	WARW_T1	4	12	8	0.15	0.28	0.13	-1.15	-1.1	0	0	0	0	0	0
5/18/2024 12:57	22003	BOHE_T1	32	90	58	0.29	0.25	-0.04	0	0	0	0	0	0	0	0
5/18/2024 12:57	22001	BOHE_T1	11	101	90	0.15	0.14	-0.01	0.28	0.27	0	0	0	0	0	0
5/18/2024 12:57	22002	BOHE_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/18/2024 12:58	67605	WARW_T1	4	12	8	0.15	0.28	0.13	-1.15	-1.1	0	0	0	0	0	0
5/18/2024 13:01	59002	MIFF_T1	1	6	5	0.3	0.37	0.07	0	0	0	0	0	0	0	0
5/18/2024 13:01	59003	MIFF_T1	0	1	1	0	0.4	0.4	0.37	0.38	0	0	0	0	0	0
5/18/2024 13:07	14404	SSLA_T1	1	1	0	3.9	4.4	0.5	0.04	0.02	0	0	0	0	0	0
5/18/2024 13:10	58006	WCAR_T2	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
5/18/2024 13:10	67703	WERN_T2	0	0	0	0	0	0	-3.52	-3.6	4	4	0	3600	3600	0
5/18/2024 13:11	60101	COCA_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
5/18/2024 13:11	16301	ALPA_T1	0	0	0	0	0	0	-0.26	-0.3	0	0	0	0	0	0
5/18/2024 13:12	60101	COCA_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
5/18/2024 13:15	23403	HONE_T1	0	0	0	0	0	0	-0.75	-0.65	0	0	0	0	0	0
5/18/2024 13:16	25503	MADI_T1	114	102	-12	0.38	0.36	-0.02	-0.98	-0.97	0	0	0	0	0	0
5/18/2024 13:21	23001	SAJO_T1	0	0	0	0	0	0	-0.94	-0.98	0	0	0	0	0	0
5/18/2024 13:26	58006	WCAR_T2	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
5/18/2024 13:29	63801	HEMP_T1	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
5/18/2024 13:29	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
5/18/2024 13:30	64503	LAVI_T1	0	0	0	0	0	0	-0.89	-0.81	1	1	0	1200	1200	0
5/18/2024 13:31	64503	LAVI_T1	0	0	0	0	0	0	-0.89	-0.81	1	1	0	1200	1200	0
5/18/2024 13:32	64503	LAVI_T1	0	0	0	0	0	0	-1.77	-1.62	2	2	0	2400	2400	0
5/18/2024 13:35	64503	LAVI_T1	0	0	0	0	0	0	-0.89	-0.81	1	1	0	1200	1200	0
5/18/2024 13:37	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/18/2024 13:37	65801	RTWN_T1	0	0	0	0	0	0	-1.05	-0.95	2	2	0	1200	1200	0
5/18/2024 13:37	67002	STHI_T2	0	0	0	0	0	0	0.69	0.7	0	0	0	0	0	0
5/18/2024 13:39	29402	BELT_T1	27	60	33	0.21	0.44	0.23	0	0	0	0	0	0	0	0
5/18/2024 13:39	46004	BERW_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
5/18/2024 13:39	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/18/2024 13:41	67703	WERN_T2	0	0	0	0	0	0	-0.89	-0.89	1	1	0	900	900	0
5/18/2024 13:47	65205	PRIN_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
5/18/2024 13:49	59002	MIFF_T1	6	6	0	0.68	0.68	0	0	0	0	0	0	0	0	0
5/18/2024 13:49	59003	MIFF_T1	1	1	0	0.1	0.2	0.1	0.44	0.39	0	0	0	0	0	0
5/18/2024 13:49	58401	MORO_T1	0	0	0	0	0	0	-1.19	-1.16	1	1	0	600	600	0
5/18/2024 13:49	59001	MIFF_T1	1	4	3	0.2	0.38	0.18	0	0	0	0	0	0	0	0
5/18/2024 13:50	58401	MORO_T1	0	0	0	0	0	0	-1.19	-1.16	1	1	0	600	600	0
5/18/2024 13:51	54201	PENN_T1	10	9	-1	0.53	0.73	0.2	0	0	0	0	0	0	0	0
5/18/2024 13:51	54203	PENN_T1	18	18	0	0.61	0.62	0.01	-0.56	-0.54	1	1	0	600	600	0
5/18/2024 13:51	66203	SISP_T2	0	0	0	0	0	0	-1.27	-1.3	1	1	0	1200	1200	0
5/18/2024 13:52	59202	THOM_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/18/2024 13:53	13801	SALI_T1	0	0	0	0	0	0	0.96	0.93	0	0	0	0	0	0
5/18/2024 13:53	67503	WEWI_T2	0	0	0	0	0	0	-0.22	-0.26	0	0	0	0	0	0
5/18/2024 13:54	67503	WEWI_T2	0	0	0	0	0	0	-0.22	-0.26	0	0	0	0	0	0
5/18/2024 13:58	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/18/2024 13:59	44505	HAMI_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
5/18/2024 13:59	44502	HAMI_T2	1	1	0	3.1	3.3	0.2	0	0	0	0	0	0	0	0
5/18/2024 13:59	21206	ECAR_T2	1	1	0	7.5	7.7	0.2	-0.04	-0.06	0	0	0	0	0	0
5/18/2024 13:59	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 14:00	44505	HAMI_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
5/18/2024 14:00	44502	HAMI_T2	1	1	0	3	3.3	0.3	0	0	0	0	0	0	0	0
5/18/2024 14:08	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/18/2024 14:09	66703	STRA_T1	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
5/18/2024 14:11	29402	BELT_T1	60	88	28	0.44	0.54	0.1	0	0	0	0	0	0	0	0
5/18/2024 14:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/18/2024 14:12	61503	EPET_T1	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
5/18/2024 14:13	61503	EPET_T1	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
5/18/2024 14:15	52403	GRPA_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
5/18/2024 14:15	52402	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/18/2024 14:23	67002	STHI_T2	0	0	0	0	0	0	1.36	1.2	0	0	0	0	0	0
5/18/2024 14:23	67001	STHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/18/2024 14:24	67001	STHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/18/2024 14:24	67002	STHI_T2	0	0	0	0	0	0	2.04	1.8	0	0	0	0	0	0
5/18/2024 14:37	65802	RTWN_T2	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
5/18/2024 14:40	58006	WCAR_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
5/18/2024 14:42	45402	WBLO_T2	1	1	0	0.9	0.8	-0.1	-1.72	-1.73	1	1	0	900	900	0
5/18/2024 14:46	63803	HEMP_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/18/2024 14:46	63804	HEMP_T1	1	2	1	5.4	2.7	-2.7	0.91	0.9	0	0	0	0	0	0
5/18/2024 14:51	65205	PRIN_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
5/18/2024 14:55	58006	WCAR_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
5/18/2024 14:56	60802	BUCK_T2	0	0	0	0	0	0	0.23	0.16	0	0	0	0	0	0
5/18/2024 14:57	60101	COCA_T1	0	1	1	0	0.2	0.2	0.26	0.23	0	0	0	0	0	0
5/18/2024 15:06	13901	SEID_T1	0	0	0	0	0	0	-0.9	-1.04	1	1	0	1200	1200	0
5/18/2024 15:07	67203	TEHI_T1	0	0	0	0	0	0	0.72	0.84	1	1	0	900	900	0
5/18/2024 15:08	57101	SPHI_T2	6	6	0	1.13	1.25	0.12	0	0	0	0	0	0	0	0
5/18/2024 15:08	45602	WOOL_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
5/18/2024 15:08	57106	SPHI_T2	3	3	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
5/18/2024 15:08	57104	SPHI_T2	0	0	0	0	0	0	-2.02	-2.02	1	1	0	900	900	0
5/18/2024 15:09	67203	TEHI_T1	0	0	0	0	0	0	0.84	0.71	1	1	0	900	900	0
5/18/2024 15:10	45602	WOOL_T1	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
5/18/2024 15:10	29402	BELT_T1	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
5/18/2024 15:10	60101	COCA_T1	1	0	-1	0.2	0	-0.2	0.23	0.24	0	0	0	0	0	0
5/18/2024 15:11	58006	WCAR_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
5/18/2024 15:12	45602	WOOL_T1	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
5/18/2024 15:15	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/18/2024 15:16	12005	HATF_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/18/2024 15:16	12002	HATF_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
5/18/2024 15:22	58006	WCAR_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
5/18/2024 15:24	17002	RIRO_T2	2	2	0	0.15	0.1	-0.05	0.39	0.37	0	0	0	0	0	0
5/18/2024 15:27	47401	PENS_T1	1	3	2	0.2	0.3	0.1	0.95	0.89	0	0	0	0	0	0
5/18/2024 15:27	47403	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 15:27	47402	PENS_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/18/2024 15:28	20601	GRWO_T2	0	0	0	0	0	0	-0.32	-0.35	0	0	0	0	0	0
5/18/2024 15:29	20603	GRWO_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
5/18/2024 15:32	65002	NEFF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 15:32	65001	NEFF_T2	0	0	0	0	0	0	-1.22	-1.27	1	1	0	1200	1200	0
5/18/2024 15:38	58006	WCAR_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
5/18/2024 15:39	47401	PENS_T1	2	2	0	0.3	0.65	0.35	0.89	0.9	0	0	0	0	0	0
5/18/2024 15:39	47403	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 15:39	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/18/2024 15:41	47403	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 15:41	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/18/2024 15:41	47401	PENS_T1	2	2	0	0.3	0.65	0.35	0.89	0.9	0	0	0	0	0	0
5/18/2024 15:42	47403	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 15:42	47401	PENS_T1	2	2	0	0.3	0.65	0.35	0.89	0.9	0	0	0	0	0	0
5/18/2024 15:42	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/18/2024 15:44	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/18/2024 15:44	63802	HEMP_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
5/18/2024 15:45	62601	ENGL_T1	0	0	0	0	0	0	-1.42	-1.4	0	0	0	0	0	0
5/18/2024 15:53	58006	WCAR_T2	0	0	0	0	0	0	0.35	0.31	0	0	0	0	0	0
5/18/2024 15:54	56802	BENV_T2	1	1	0	0.3	0.5	0.2	-2.94	-2.98	0	0	0	0	0	0
5/18/2024 15:55	62102	ELAN_T1	1	0	-1	0.1	0	-0.1	0.7	0.62	0	0	0	0	0	0
5/18/2024 15:57	62102	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/18/2024 15:57	62104	ELAN_T1	0	0	0	0	0	0	0.36	-0.06	2	2	0	2400	2400	0
5/18/2024 15:58	56802	BENV_T2	1	1	0	0.3	0.5	0.2	-1.47	-1.49	0	0	0	0	0	0
5/18/2024 16:00	62104	ELAN_T1	0	0	0	0	0	0	0.18	-0.03	1	1	0	1200	1200	0
5/18/2024 16:00	56802	BENV_T2	1	1	0	0.5	0.4	-0.1	-1.47	-1.49	0	0	0	0	0	0
5/18/2024 16:01	62102	ELAN_T1	0	0	0	0	0	0	0.7	0.62	0	0	0	0	0	0
5/18/2024 16:04	66103	REAM_T2	0	0	0	0	0	0	1.28	1.27	0	0	0	0	0	0
5/18/2024 16:09	58006	WCAR_T2	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
5/18/2024 16:10	57101	SPHI_T2	6	6	0	1.3	0.23	-1.07	0	0	0	0	0	0	0	0
5/18/2024 16:10	57103	SPHI_T2	0	0	0	0	0	0	-0.86	-0.85	1	1	0	600	600	0
5/18/2024 16:10	57106	SPHI_T2	3	3	0	1.03	1.07	0.04	0	0	0	0	0	0	0	0
5/18/2024 16:21	66901	SHIL_T2	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
5/18/2024 16:25	62106	ELAN_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
5/18/2024 16:25	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 16:25	42601	TUSC_T1	0	0	0	0	0	0	-0.37	-0.43	2	2	0	1800	1800	0
5/18/2024 16:25	58006	WCAR_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
5/18/2024 16:26	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 16:26	56801	BENV_T1	6	7	1	0.52	0.66	0.14	-0.52	-0.52	1	1	0	600	600	0
5/18/2024 16:33	12606	MACA_T1	0	0	0	0	0	0	-0.29	-0.29	1	1	0	900	900	0
5/18/2024 16:33	12002	HATF_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
5/18/2024 16:33	12005	HATF_T1	3	5	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/18/2024 16:34	41902	REED_T1	0	1	1	0	0	0	0.9	0.88	0	0	0	0	0	0
5/18/2024 16:47	12004	HATF_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/18/2024 16:47	12006	HATF_T1	0	0	0	0	0	0	0.44	0.38	0	0	0	0	0	0
5/18/2024 16:47	12005	HATF_T1	3	5	2	0.27	0.28	0.01	0	0	0	0	0	0	0	0
5/18/2024 16:49	41903	REED_T1	0	0	0	0	0	0	0.71	0.72	0	0	0	0	0	0
5/18/2024 16:49	41902	REED_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/18/2024 16:50	41902	REED_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/18/2024 16:50	41903	REED_T1	0	0	0	0	0	0	0.71	0.72	0	0	0	0	0	0
5/18/2024 16:51	41903	REED_T1	0	0	0	0	0	0	0.71	0.72	0	0	0	0	0	0
5/18/2024 16:51	41902	REED_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/18/2024 16:54	29402	BELT_T1	1	1	0	7.3	8.2	0.9	0	0	0	0	0	0	0	0
5/18/2024 16:54	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/18/2024 16:56	58006	WCAR_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
5/18/2024 16:58	62106	ELAN_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
5/18/2024 16:58	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 17:00	52002	LING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 17:03	15204	SFAR_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
5/18/2024 17:04	15204	SFAR_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
5/18/2024 17:07	58006	WCAR_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
5/18/2024 17:13	48901	FOSP_T2	0	0	0	0	0	0	-0.45	-0.45	1	1	0	600	600	0
5/18/2024 17:14	12004	HATF_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/18/2024 17:14	12005	HATF_T1	5	5	0	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
5/18/2024 17:14	12002	HATF_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
5/18/2024 17:15	48901	FOSP_T2	0	0	0	0	0	0	-1.35	-1.35	3	3	0	1800	1800	0
5/18/2024 17:19	15203	SFAR_T2	0	0	0	0	0	0	-1.18	-1.13	0	0	0	0	0	0
5/18/2024 17:25	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/18/2024 17:25	29402	BELT_T1	1	1	0	8.2	8	-0.2	0	0	0	0	0	0	0	0
5/18/2024 17:29	52403	GRPA_T2	0	0	0	0	0	0	-0.48	-0.38	0	0	0	0	0	0
5/18/2024 17:31	48902	FOSP_T2	0	0	0	0	0	0	-0.33	-0.28	0	0	0	0	0	0
5/18/2024 17:31	52004	LING_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
5/18/2024 17:49	12502	MITR_T2	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
5/18/2024 17:49	12505	MITR_T2	0	0	0	0	0	0	0.4	0.35	0	0	0	0	0	0
5/18/2024 17:50	12505	MITR_T2	0	0	0	0	0	0	0.4	0.35	0	0	0	0	0	0
5/18/2024 17:50	12502	MITR_T2	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
5/18/2024 17:54	40505	CRES_T1	4	3	-1	3.93	5.57	1.64	0.3	0.28	0	0	0	0	0	0
5/18/2024 17:54	46302	ROHR_T1	2	5	3	3.5	1.76	-1.74	0	0	0	0	0	0	0	0
5/18/2024 17:54	46301	ROHR_T1	0	17	17	0	0.12	0.12	0.19	0.17	0	0	0	0	0	0
5/18/2024 17:55	20403	ASHF_T2	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
5/18/2024 18:09	16102	BING_T2	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
5/18/2024 18:17	12601	MACA_T1	0	0	0	0	0	0	0.7	0.76	0	0	0	0	0	0
5/18/2024 18:23	66202	SISP_T2	0	0	0	0	0	0	-0.82	-0.8	0	0	0	0	0	0
5/18/2024 18:31	44504	HAMI_T2	0	0	0	0	0	0	-1.29	-1.29	0	0	0	0	0	0
5/18/2024 18:31	44503	HAMI_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
5/18/2024 18:31	44502	HAMI_T2	1	1	0	3.4	3.6	0.2	0	0	0	0	0	0	0	0
5/18/2024 18:31	44501	HAMI_T2	22	48	26	0.12	0.21	0.09	0	0	0	0	0	0	0	0
5/18/2024 18:42	62102	ELAN_T1	0	0	0	0	0	0	0.67	0.81	0	0	0	0	0	0
5/18/2024 18:47	52004	LING_T2	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
5/18/2024 18:48	46602	LACR_T1	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
5/18/2024 18:50	56501	ROCK_T2	2	2	0	0.15	0.2	0.05	83.96	83.96	0	0	0	0	0	0
5/18/2024 18:52	44202	POIN_T2	0	0	0	0	0	0	-0.97	-0.96	1	1	0	1200	1200	0
5/18/2024 18:52	44203	POIN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/18/2024 18:53	55102	WERT_T2	0	0	0	0	0	0	-2.04	-2.03	1	1	0	600	600	0
5/18/2024 19:09	49804	UNIV_T1	1	1	0	0.2	0.1	-0.1	0.54	0.52	0	0	0	0	0	0
5/18/2024 19:27	54505	ENOL_T2	1	0	-1	0.2	0	-0.2	-2.56	-2.56	2	2	0	1200	1200	0
5/18/2024 19:31	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/18/2024 20:37	16402	MOPO_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
5/18/2024 20:42	45901	AUBU_T1	0	0	0	0	0	0	1.09	1.09	0	0	0	0	0	0
5/18/2024 20:49	46504	LOHA_T1	2	2	0	0.35	0.85	0.5	0	0	0	0	0	0	0	0
5/18/2024 20:49	46501	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/18/2024 20:49	46506	LOHA_T1	0	0	0	0	0	0	-0.42	-0.38	0	0	0	0	0	0
5/18/2024 20:51	46504	LOHA_T1	2	2	0	0.35	0.85	0.5	0	0	0	0	0	0	0	0
5/18/2024 20:51	46501	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/18/2024 20:51	46506	LOHA_T1	0	0	0	0	0	0	-0.84	-0.76	0	0	0	0	0	0
5/18/2024 20:52	46506	LOHA_T1	0	0	0	0	0	0	-0.42	-0.38	0	0	0	0	0	0
5/18/2024 20:52	46501	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/18/2024 20:52	46504	LOHA_T1	2	2	0	0.35	0.85	0.5	0	0	0	0	0	0	0	0
5/18/2024 20:53	46501	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/18/2024 20:53	46504	LOHA_T1	2	2	0	0.35	0.85	0.5	0	0	0	0	0	0	0	0
5/18/2024 20:53	46506	LOHA_T1	0	0	0	0	0	0	-0.84	-0.76	0	0	0	0	0	0
5/18/2024 20:54	66901	SHIL_T2	0	0	0	0	0	0	-1.35	-1.36	0	0	0	0	0	0
5/18/2024 20:54	66902	SHIL_T2	0	0	0	0	0	0	-3.48	-3.5	0	0	0	0	0	0
5/18/2024 20:56	45902	AUBU_T1	0	0	0	0	0	0	-0.45	-0.55	0	0	0	0	0	0
5/18/2024 20:57	66902	SHIL_T2	0	0	0	0	0	0	-1.74	-1.75	0	0	0	0	0	0
5/18/2024 20:58	45902	AUBU_T1	0	0	0	0	0	0	-0.45	-0.55	0	0	0	0	0	0
5/18/2024 21:07	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
5/18/2024 21:07	29402	BELT_T1	1	1	0	7.7	8	0.3	0	0	0	0	0	0	0	0
5/18/2024 21:13	65503	MOJO_T2	0	0	0	0	0	0	-1.3	-1.25	1	1	0	900	900	0
5/18/2024 21:19	46801	HEPB_T2	2	2	0	0.2	0.45	0.25	0.6	0.61	0	0	0	0	0	0
5/18/2024 21:38	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/18/2024 21:48	58401	MORO_T1	0	0	0	0	0	0	-1.23	-1.25	1	1	0	600	600	0
5/18/2024 21:48	17802	GILB_T1	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
5/18/2024 21:49	29402	BELT_T1	1	1	0	7.4	7.9	0.5	0	0	0	0	0	0	0	0
5/18/2024 21:50	29402	BELT_T1	1	1	0	7.4	7.9	0.5	0	0	0	0	0	0	0	0
5/18/2024 21:50	56802	BENV_T2	1	0	-1	0.4	0	-0.4	-1.49	-1.54	0	0	0	0	0	0
5/18/2024 21:50	58006	WCAR_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
5/18/2024 21:51	20401	ASHF_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
5/18/2024 21:51	66504	SMAN_T2	0	0	0	0	0	0	-1.79	-1.83	1	1	0	1200	1200	0
5/18/2024 21:51	29402	BELT_T1	1	1	0	7.4	7.9	0.5	0	0	0	0	0	0	0	0
5/18/2024 21:52	13503	MCMI_T2	0	0	0	0	0	0	-1.02	-0.01	0	0	0	0	0	0
5/18/2024 21:52	14404	SSLA_T1	1	1	0	4	4.5	0.5	-0.03	-0.02	0	0	0	0	0	0
5/18/2024 21:53	29402	BELT_T1	1	1	0	7.4	7.9	0.5	0	0	0	0	0	0	0	0
5/18/2024 21:53	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/18/2024 21:54	66504	SMAN_T2	0	0	0	0	0	0	-3.66	-1.09	2	0	-2	2400	0	-2400
5/18/2024 21:55	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/18/2024 21:55	29402	BELT_T1	1	1	0	7.4	7.9	0.5	0	0	0	0	0	0	0	0
5/18/2024 21:56	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 21:56	42601	TUSC_T1	0	1	1	0	0.2	0.2	-0.59	-0.64	2	2	0	1800	1800	0
5/18/2024 21:57	14404	SSLA_T1	1	1	0	4	4.5	0.5	-0.02	-0.03	0	0	0	0	0	0
5/18/2024 21:57	29402	BELT_T1	1	1	0	7.4	7.9	0.5	0	0	0	0	0	0	0	0
5/18/2024 21:57	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/18/2024 21:57	10801	CHHI_T1	0	0	0	0	0	0	-1.38	-1.4	2	2	0	1500	1500	0
5/18/2024 21:59	66504	SMAN_T2	0	0	0	0	0	0	-1.83	-0.55	1	0	-1	1200	0	-1200
5/18/2024 22:00	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
5/18/2024 22:01	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 22:01	65502	MOJO_T2	0	1	1	0	0	0	-1.01	-0.98	1	1	0	900	900	0
5/18/2024 22:01	41902	REED_T1	0	0	0	0	0	0	0.85	0.86	0	0	0	0	0	0
5/18/2024 22:02	56801	BENV_T1	10	13	3	0.59	0.68	0.09	-0.6	-0.65	1	1	0	600	600	0
5/18/2024 22:02	10805	CHHI_T2	1	1	0	8	7.8	-0.2	-1.04	-1.06	0	0	0	0	0	0
5/18/2024 22:02	46602	LACR_T1	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
5/18/2024 22:03	12606	MACA_T1	0	0	0	0	0	0	-0.35	-0.35	1	1	0	900	900	0
5/18/2024 22:03	60502	NMAN_T2	0	0	0	0	0	0	-0.56	-0.51	0	0	0	0	0	0
5/18/2024 22:03	26603	BROO_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
5/18/2024 22:03	10805	CHHI_T2	1	1	0	8	7.8	-0.2	-1.04	-1.06	0	0	0	0	0	0
5/18/2024 22:03	60501	NMAN_T2	3	3	0	5	5.23	0.23	0	0	0	0	0	0	0	0
5/18/2024 22:05	54505	ENOL_T2	1	1	0	0.2	0.4	0.2	-1.27	-1.31	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/18/2024 22:05	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
5/18/2024 22:06	29402	BELT_T1	1	1	0	7.9	8.1	0.2	0	0	0	0	0	0	0	0
5/18/2024 22:06	13905	SEID_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
5/18/2024 22:06	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/18/2024 22:06	20601	GRWO_T2	7	92	85	0.19	0.2	0.01	-0.43	-0.44	0	0	0	0	0	0
5/18/2024 22:06	16301	ALPA_T1	1	2	1	0.3	0.3	0	-0.47	-0.45	0	0	0	0	0	0
5/18/2024 22:06	67002	STHI_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
5/18/2024 22:06	66502	SMAN_T2	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
5/18/2024 22:06	10805	CHHI_T2	1	1	0	8	7.8	-0.2	-1.04	-1.06	0	0	0	0	0	0
5/18/2024 22:06	66505	SMAN_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/18/2024 22:07	20401	ASHF_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/18/2024 22:07	65502	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 22:07	57106	SPHI_T2	3	3	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
5/18/2024 22:07	66505	SMAN_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/18/2024 22:07	62104	ELAN_T1	0	0	0	0	0	0	1.01	1.01	0	0	0	0	0	0
5/18/2024 22:07	57101	SPHI_T2	4	6	2	0.4	0.88	0.48	0	0	0	0	0	0	0	0
5/18/2024 22:07	66504	SMAN_T2	0	0	0	0	0	0	-1.83	-0.55	1	0	-1	1200	0	-1200
5/18/2024 22:07	20403	ASHF_T2	0	0	0	0	0	0	0.11	0.07	0	0	0	0	0	0
5/18/2024 22:07	65503	MOJO_T2	0	0	0	0	0	0	-1.28	-1.31	1	1	0	900	900	0
5/18/2024 22:07	57103	SPHI_T2	0	0	0	0	0	0	-0.87	-0.88	1	1	0	600	600	0
5/18/2024 22:08	26603	BROO_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
5/18/2024 22:08	59002	MIFF_T1	6	6	0	1.02	1.05	0.03	0	0	0	0	0	0	0	0
5/18/2024 22:08	59001	MIFF_T1	20	20	0	0.16	0.16	0	0	0	0	0	0	0	0	0
5/18/2024 22:08	10801	CHHI_T1	0	0	0	0	0	0	-1.38	-1.4	2	2	0	1500	1500	0
5/18/2024 22:08	56501	ROCK_T2	2	5	3	0.6	0.42	-0.18	83.96	83.96	0	0	0	0	0	0
5/18/2024 22:08	58401	MORO_T1	0	0	0	0	0	0	-1.24	-1.27	1	1	0	600	600	0
5/18/2024 22:08	15203	SFAR_T2	0	0	0	0	0	0	-1.27	-1.28	0	0	0	0	0	0
5/18/2024 22:08	59003	MIFF_T1	1	1	0	0.8	0.9	0.1	0.36	0.35	0	0	0	0	0	0
5/18/2024 22:08	65802	RTWN_T2	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
5/18/2024 22:09	58006	WCAR_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
5/18/2024 22:09	15204	SFAR_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
5/18/2024 22:09	48901	FOSP_T2	0	0	0	0	0	0	-0.42	-0.41	1	1	0	600	600	0
5/18/2024 22:09	21206	ECAR_T2	1	1	0	8.4	8.5	0.1	-0.09	-0.08	0	0	0	0	0	0
5/18/2024 22:09	56501	ROCK_T2	2	5	3	0.6	0.42	-0.18	83.96	83.96	0	0	0	0	0	0
5/18/2024 22:09	42903	MIDD_T2	2	2	0	0.5	0.8	0.3	-0.32	-0.3	0	0	0	0	0	0
5/18/2024 22:09	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 22:10	66203	SISP_T2	0	1	1	0	0	0	-1.4	-1.42	1	1	0	1200	1200	0
5/18/2024 22:10	56802	BENV_T2	0	1	1	0	0.5	0.5	-1.5	-1.56	0	0	0	0	0	0
5/18/2024 22:10	66504	SMAN_T2	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
5/18/2024 22:10	46803	HEMP_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/18/2024 22:10	41902	REED_T1	0	0	0	0	0	0	1.72	1.54	0	0	0	0	0	0
5/18/2024 22:10	66505	SMAN_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/18/2024 22:10	10805	CHHI_T2	1	1	0	8	7.8	-0.2	-1.06	-1.06	0	0	0	0	0	0
5/18/2024 22:10	56501	ROCK_T2	2	5	3	0.6	0.42	-0.18	83.96	83.96	0	0	0	0	0	0
5/18/2024 22:10	62104	ELAN_T1	0	0	0	0	0	0	1.01	1.02	0	0	0	0	0	0
5/18/2024 22:10	61503	EPET_T1	0	0	0	0	0	0	-1.18	-1.18	0	0	0	0	0	0
5/18/2024 22:10	46801	HEPB_T2	1	5	4	0.3	0.42	0.12	0.6	0.57	0	0	0	0	0	0
5/18/2024 22:11	64503	LAVI_T1	0	0	0	0	0	0	-0.88	-0.86	1	1	0	1200	1200	0
5/18/2024 22:11	44504	HAMI_T2	0	0	0	0	0	0	-1.31	-1.32	0	0	0	0	0	0
5/18/2024 22:11	44502	HAMI_T2	1	1	0	3.8	4	0.2	0	0	0	0	0	0	0	0
5/18/2024 22:11	65001	NEFF_T2	1	0	-1	0.1	0	-0.1	-1.34	-1.32	1	1	0	1200	1200	0
5/18/2024 22:11	44501	HAMI_T2	50	72	22	0.23	0.25	0.02	0	0	0	0	0	0	0	0
5/18/2024 22:11	66505	SMAN_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/18/2024 22:11	47401	PENS_T1	0	0	0	0	0	0	1.68	1.54	0	0	0	0	0	0
5/18/2024 22:11	17002	RIRO_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
5/18/2024 22:11	13303	ORVI_T1	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
5/18/2024 22:11	65801	RTWN_T1	0	0	0	0	0	0	-1.15	-1.1	2	2	0	1200	1200	0
5/18/2024 22:11	44503	HAMI_T2	25	34	9	0.11	0.11	0	0	0	0	0	0	0	0	0
5/18/2024 22:11	62106	ELAN_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
5/18/2024 22:11	67002	STHI_T2	0	0	0	0	0	0	1.74	1.71	0	0	0	0	0	0
5/18/2024 22:11	48901	FOSP_T2	0	0	0	0	0	0	-0.42	-0.41	1	1	0	600	600	0
5/18/2024 22:11	66504	SMAN_T2	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
5/18/2024 22:11	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
5/18/2024 22:11	64701	LITI_T1	0	0	0	0	0	0	0.01	0.07	0	0	0	0	0	0
5/18/2024 22:12	56802	BENV_T2	0	1	1	0	0.5	0.5	-1.5	-1.56	0	0	0	0	0	0
5/18/2024 22:12	59101	WALK_T2	0	0	0	0	0	0	0.9	0.67	0	0	0	0	0	0
5/18/2024 22:12	67002	STHI_T2	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
5/18/2024 22:12	67503	WEWI_T2	0	0	0	0	0	0	-0.56	-0.62	0	0	0	0	0	0
5/18/2024 22:12	16102	BING_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
5/18/2024 22:12	67502	WEWI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 22:12	64503	LAVI_T1	0	0	0	0	0	0	-0.88	-0.86	1	1	0	1200	1200	0
5/18/2024 22:12	55102	WERT_T2	0	0	0	0	0	0	-0.83	-0.84	1	1	0	600	600	0
5/18/2024 22:12	52004	LING_T2	0	0	0	0	0	0	-0.19	-0.18	0	0	0	0	0	0
5/18/2024 22:12	45602	WOOL_T1	1	2	1	0.2	0.3	0.1	0.43	0.42	0	0	0	0	0	0
5/18/2024 22:13	57104	SPHI_T2	0	0	0	0	0	0	-2.08	-2.11	1	1	0	900	900	0
5/18/2024 22:13	45901	AUBU_T1	1	12	11	0.1	0.14	0.04	0	0	0	0	0	0	0	0
5/18/2024 22:13	57101	SPHI_T2	4	6	2	0.4	0.88	0.48	0	0	0	0	0	0	0	0
5/18/2024 22:13	57106	SPHI_T2	3	3	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
5/18/2024 22:13	45902	AUBU_T1	114	432	318	0.21	0.32	0.11	-0.78	-0.8	0	0	0	0	0	0
5/18/2024 22:13	47401	PENS_T1	0	0	0	0	0	0	0.84	0.77	0	0	0	0	0	0
5/18/2024 22:13	66202	SISP_T2	0	0	0	0	0	0	-0.86	-0.85	0	0	0	0	0	0
5/18/2024 22:13	44301	BEAV_T2	0	0	0	0	0	0	-0.57	-0.56	1	1	0	600	600	0
5/18/2024 22:13	15204	SFAR_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
5/18/2024 22:13	64701	LITI_T1	0	0	0	0	0	0	0.01	0.07	0	0	0	0	0	0
5/18/2024 22:13	43202	MVIL_T2	131	141	10	0.52	0.41	-0.11	-0.71	-0.7	0	0	0	0	0	0
5/18/2024 22:13	56501	ROCK_T2	2	5	3	0.6	0.42	-0.18	83.96	83.96	0	0	0	0	0	0
5/18/2024 22:13	12502	MITR_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
5/18/2024 22:13	66203	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 22:13	12505	MITR_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
5/18/2024 22:14	10903	COOP_T2	0	42	42	0	0.14	0.14	0	0	0	0	0	0	0	0
5/18/2024 22:14	63305	GREE_T1	19	22	3	0.19	0.23	0.04	-2.43	-2.44	1	1	0	900	900	0
5/18/2024 22:14	44503	HAMI_T2	25	34	9	0.11	0.11	0	0	0	0	0	0	0	0	0
5/18/2024 22:14	63404	HONY_T1	105	141	36	0.3	0.43	0.13	0	0	0	0	0	0	0	0
5/18/2024 22:14	12002	HATF_T1	0	15	15	0	0.1	0.1	-0.46	-0.54	0	0	0	0	0	0
5/18/2024 22:14	67203	TEHI_T1	0	0	0	0	0	0	0.99	0.85	1	0	-1	900	0	-900
5/18/2024 22:14	12004	HATF_T1	0	25	25	0	0.15	0.15	0	0	0	0	0	0	0	0
5/18/2024 22:14	44501	HAMI_T2	50	72	22	0.23	0.25	0.02	0	0	0	0	0	0	0	0
5/18/2024 22:14	12005	HATF_T1	5	6	1	0.32	0.57	0.25	0	0	0	0	0	0	0	0
5/18/2024 22:14	67703	WERN_T2	0	0	0	0	0	0	-0.97	-0.96	1	1	0	900	900	0
5/18/2024 22:14	44502	HAMI_T2	1	1	0	3.8	4	0.2	0	0	0	0	0	0	0	0
5/18/2024 22:14	44505	HAMI_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
5/18/2024 22:14	10901	COOP_T2	0	0	0	0	0	0	0.69	0.72	0	0	0	0	0	0
5/18/2024 22:14	62104	ELAN_T1	0	0	0	0	0	0	1.01	1.02	0	0	0	0	0	0
5/18/2024 22:14	63401	HONY_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
5/18/2024 22:15	67605	WARW_T1	21	34	13	0.58	0.64	0.06	-1.25	-1.27	0	0	0	0	0	0
5/18/2024 22:15	40101	HUNT_T2	0	0	0	0	0	0	-0.72	-0.69	0	0	0	0	0	0
5/18/2024 22:15	45901	AUBU_T1	2	18	16	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
5/18/2024 22:15	40502	CRES_T2	4	8	4	0.2	0.3	0.1	2.3	2.3	0	0	0	0	0	0
5/18/2024 22:15	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/18/2024 22:15	45902	AUBU_T1	248	486	238	0.23	0.41	0.18	-1.55	-1.59	0	0	0	0	0	0
5/18/2024 22:15	52002	LING_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
5/18/2024 22:15	56501	ROCK_T2	2	5	3	0.9	0.5	-0.4	167.92	167.92	0	0	0	0	0	0
5/18/2024 22:15	47401	PENS_T1	0	0	0	0	0	0	0.84	0.77	0	0	0	0	0	0
5/18/2024 22:15	52004	LING_T2	0	0	0	0	0	0	-0.19	-0.18	0	0	0	0	0	0
5/18/2024 22:15	64503	LAVI_T1	0	0	0	0	0	0	-0.88	-0.86	1	1	0	1200	1200	0
5/18/2024 22:15	60101	COCA_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
5/18/2024 22:15	45602	WOOL_T1	1	2	1	0.2	0.5	0.3	0.86	0.84	0	0	0	0	0	0
5/18/2024 22:15	44301	BEAV_T2	0	0	0	0	0	0	-0.57	-0.56	1	1	0	600	600	0
5/18/2024 22:15	67002	STHI_T2	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
5/18/2024 22:16	62106	ELAN_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
5/18/2024 22:16	45902	AUBU_T1	248	486	238	0.23	0.41	0.18	-0.78	-0.8	0	0	0	0	0	0
5/18/2024 22:16	56501	ROCK_T2	2	5	3	0.9	0.5	-0.4	83.96	83.96	0	0	0	0	0	0
5/18/2024 22:16	46302	ROHR_T1	5	6	1	1.88	1.85	-0.03	0	0	0	0	0	0	0	0
5/18/2024 22:16	67703	WERN_T2	0	0	0	0	0	0	-0.97	-0.96	1	1	0	900	900	0
5/18/2024 22:16	63304	GREE_T1	0	1	1	0	0.1	0.1	-1.87	-1.87	0	0	0	0	0	0
5/18/2024 22:16	40502	CRES_T2	4	8	4	0.2	0.3	0.1	1.38	1.38	0	0	0	0	0	0
5/18/2024 22:16	59202	THOM_T1	18	60	42	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
5/18/2024 22:16	46301	ROHR_T1	75	113	38	0.16	0.19	0.03	0.18	0.17	0	0	0	0	0	0
5/18/2024 22:16	59201	THOM_T1	5	9	4	0.18	0.22	0.04	0	0	0	0	0	0	0	0
5/18/2024 22:16	67605	WARW_T1	21	34	13	0.58	0.64	0.06	-1.25	-1.27	0	0	0	0	0	0
5/18/2024 22:16	63305	GREE_T1	22	45	23	0.22	0.2	-0.02	-2.43	-2.44	1	1	0	900	900	0
5/18/2024 22:16	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/18/2024 22:16	45901	AUBU_T1	2	18	16	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
5/18/2024 22:16	41902	REED_T1	0	0	0	0	0	0	0.86	0.77	0	0	0	0	0	0
5/18/2024 22:17	40502	CRES_T2	4	8	4	0.2	0.3	0.1	0.46	0.46	0	0	0	0	0	0
5/18/2024 22:17	40504	CRES_T1	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
5/18/2024 22:17	60803	BUCK_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
5/18/2024 22:17	12505	MITR_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
5/18/2024 22:17	63803	HEMP_T1	0	60	60	0	0.14	0.14	0	0	0	0	0	0	0	0
5/18/2024 22:17	60802	BUCK_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
5/18/2024 22:17	66103	REAM_T2	0	0	0	0	0	0	1.25	1.31	0	0	0	0	0	0
5/18/2024 22:17	40505	CRES_T1	3	3	0	5.77	6.2	0.43	0	0	0	0	0	0	0	0
5/18/2024 22:17	60801	BUCK_T1	0	9	9	0	0.12	0.12	-0.87	-0.86	1	1	0	600	600	0
5/18/2024 22:17	64503	LAVI_T1	0	0	0	0	0	0	-0.88	-0.86	1	1	0	1200	1200	0
5/18/2024 22:17	63804	HEMP_T1	1	5	4	5.2	1.16	-4.04	0.74	0.77	0	0	0	0	0	0
5/18/2024 22:17	52101	MEIS_T1	2	2	0	1.15	1.4	0.25	0	0	0	0	0	0	0	0
5/18/2024 22:17	41801	DOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2024 22:17	12502	MITR_T2	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
5/18/2024 22:17	63801	HEMP_T1	0	50	50	0	0.13	0.13	-0.22	-0.38	0	0	0	0	0	0
5/18/2024 22:17	62102	ELAN_T1	0	0	0	0	0	0	0.68	0.6	0	0	0	0	0	0
5/18/2024 22:17	59101	WALK_T2	0	0	0	0	0	0	0.9	0.67	0	0	0	0	0	0
5/18/2024 22:17	63802	HEMP_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
5/18/2024 22:17	52102	MEIS_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	450	450	0
5/18/2024 22:17	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/18/2024 22:17	43202	MVIL_T2	92	151	59	0.45	0.47	0.02	-0.71	-0.7	0	0	0	0	0	0
5/18/2024 22:17	49804	UNIV_T1	2	2	0	0.25	0.35	0.1	0.45	0.39	0	0	0	0	0	0
5/18/2024 22:17	67703	WERN_T2	0	0	0	0	0	0	-1.94	-1.92	2	2	0	1800	1800	0
5/18/2024 22:18	12005	HATF_T1	6	6	0	0.46	0.65	0.19	0	0	0	0	0	0	0	0
5/18/2024 22:18	12006	HATF_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
5/18/2024 22:18	59002	MIFF_T1	6	6	0	0.95	1.05	0.1	0	0	0	0	0	0	0	0
5/18/2024 22:18	61503	EPET_T1	0	0	0	0	0	0	-1.18	-1.18	0	0	0	0	0	0
5/18/2024 22:18	59001	MIFF_T1	9	19	10	0.11	0.16	0.05	0	0	0	0	0	0	0	0
5/18/2024 22:18	65502	MOJO_T2	0	0	0	0	0	0	-0.98	-0.99	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/18/2024 22:18	67605	WARW_T1	21	34	13	0.58	0.64	0.06	-1.25	-1.27	0	0	0	0	0	0
5/18/2024 22:18	64701	LITI_T1	0	0	0	0	0	0	0.01	0.07	0	0	0	0	0	0
5/18/2024 22:18	62102	ELAN_T1	0	0	0	0	0	0	0.68	0.6	0	0	0	0	0	0
5/18/2024 22:18	12001	HATF_T1	0	18	18	0	0.1	0.1	0	0	0	0	0	0	0	0
5/18/2024 22:18	48901	FOSP_T2	0	0	0	0	0	0	-0.42	-0.41	1	1	0	600	600	0
5/18/2024 22:18	52403	GRPA_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
5/18/2024 22:18	59003	MIFF_T1	1	1	0	0.8	0.9	0.1	0.36	0.35	0	0	0	0	0	0
5/18/2024 22:18	54203	PENN_T1	18	18	0	0.75	0.84	0.09	0.01	0.04	1	1	0	600	600	0
5/18/2024 22:18	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
5/18/2024 22:18	67703	WERN_T2	0	0	0	0	0	0	-2.91	-2.88	3	3	0	2700	2700	0
5/18/2024 22:18	54201	PENN_T1	10	10	0	0.83	1.06	0.23	0	0	0	0	0	0	0	0
5/18/2024 22:18	12004	HATF_T1	6	30	24	0.15	0.2	0.05	0	0	0	0	0	0	0	0
5/18/2024 22:18	13303	ORVI_T1	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
5/18/2024 22:18	67203	TEHI_T1	0	0	0	0	0	0	0.99	0.85	1	0	-1	900	0	-900
5/18/2024 22:18	65503	MOJO_T2	0	6	6	0	0.22	0.22	-1.31	-1.3	1	1	0	900	900	0
5/18/2024 22:18	52402	GRPA_T2	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
5/18/2024 22:18	12002	HATF_T1	0	29	29	0	0.11	0.11	0	0	0	0	0	0	0	0
5/18/2024 22:18	60101	COCA_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
5/18/2024 22:19	66701	STRA_T1	0	0	0	0	0	0	-0.19	-0.25	1	1	0	600	600	0
5/18/2024 22:19	20603	GRWO_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
5/18/2024 22:19	52101	MEIS_T1	2	2	0	1.15	1.4	0.25	0	0	0	0	0	0	0	0
5/18/2024 22:19	64503	LAVI_T1	0	0	0	0	0	0	-0.88	-0.86	1	1	0	1200	1200	0
5/18/2024 22:19	20601	GRWO_T2	53	99	46	0.16	0.21	0.05	0	0	0	0	0	0	0	0
5/18/2024 22:19	52102	MEIS_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	450	450	0
5/18/2024 22:19	66703	STRA_T1	2	7	5	0.1	0.33	0.23	0	0	0	0	0	0	0	0
5/18/2024 22:20	41903	REED_T1	0	0	0	0	0	0	0.64	0.67	0	0	0	0	0	0
5/18/2024 22:20	60101	COCA_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
5/18/2024 22:20	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
5/18/2024 22:21	12001	HATF_T1	0	18	18	0	0.1	0.1	0	0	0	0	0	0	0	0
5/18/2024 22:21	60101	COCA_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
5/18/2024 22:21	12002	HATF_T1	0	29	29	0	0.11	0.11	-0.23	-0.27	0	0	0	0	0	0
5/18/2024 22:21	12004	HATF_T1	6	30	24	0.15	0.2	0.05	0	0	0	0	0	0	0	0
5/18/2024 22:21	48902	FOSP_T2	0	0	0	0	0	0	-0.31	-0.28	0	0	0	0	0	0
5/18/2024 22:21	12005	HATF_T1	6	6	0	0.46	0.65	0.19	0	0	0	0	0	0	0	0
5/18/2024 22:22	40502	CRES_T2	4	8	4	0.2	0.3	0.1	0.46	0.46	0	0	0	0	0	0
5/18/2024 22:22	67605	WARW_T1	21	34	13	0.58	0.64	0.06	-1.25	-1.27	0	0	0	0	0	0
5/18/2024 22:22	63803	HEMP_T1	0	60	60	0	0.14	0.14	0	0	0	0	0	0	0	0
5/18/2024 22:22	45902	AUBU_T1	248	486	238	0.23	0.41	0.18	0	0	0	0	0	0	0	0
5/18/2024 22:22	63804	HEMP_T1	1	5	4	5.2	1.16	-4.04	0	0	0	0	0	0	0	0
5/18/2024 22:22	40505	CRES_T1	3	3	0	5.77	6.2	0.43	0.21	0.23	0	0	0	0	0	0
5/18/2024 22:22	45901	AUBU_T1	2	18	16	0.15	0.14	-0.01	1.13	1.11	0	0	0	0	0	0
5/18/2024 22:22	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/18/2024 22:22	63801	HEMP_T1	0	50	50	0	0.13	0.13	-0.22	-0.38	0	0	0	0	0	0
5/18/2024 22:22	43202	MVIL_T2	92	151	59	0.45	0.47	0.02	-0.71	-0.7	0	0	0	0	0	0
5/18/2024 22:22	66703	STRA_T1	2	7	5	0.1	0.33	0.23	-0.38	-0.43	0	0	0	0	0	0
5/18/2024 22:22	13303	ORVI_T1	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
5/18/2024 22:23	46801	HEPB_T2	3	5	2	0.27	0.42	0.15	0	0	0	0	0	0	0	0
5/18/2024 22:23	44505	HAMI_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
5/18/2024 22:23	46803	HEPB_T2	1	3	2	0.1	0.13	0.03	0.48	0.46	0	0	0	0	0	0
5/18/2024 22:23	44503	HAMI_T2	34	4	-30	0.11	0.13	0.02	0	0	0	0	0	0	0	0
5/18/2024 22:23	44502	HAMI_T2	1	1	0	4	3.9	-0.1	0	0	0	0	0	0	0	0
5/18/2024 22:23	44501	HAMI_T2	72	0	-72	0.25	0	-0.25	0	0	0	0	0	0	0	0
5/18/2024 22:24	12601	MACA_T1	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
5/18/2024 22:24	15203	SFAR_T2	0	0	0	0	0	0	-1.28	-1.29	0	0	0	0	0	0
5/18/2024 22:25	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/18/2024 22:25	40502	CRES_T2	4	8	4	0.2	0.3	0.1	0.92	0.86	0	0	0	0	0	0
5/18/2024 22:26	63804	GREE_T1	0	1	1	0	0.1	0.1	-1.87	-1.89	0	0	0	0	0	0
5/18/2024 22:26	40502	CRES_T2	4	8	4	0.2	0.3	0.1	0.46	0.43	0	0	0	0	0	0
5/18/2024 22:26	63305	GREE_T1	22	45	23	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
5/18/2024 22:26	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/18/2024 22:27	40502	CRES_T2	4	8	4	0.2	0.3	0.1	0.46	0.43	0	0	0	0	0	0
5/18/2024 22:27	40504	CRES_T1	0	0	0	0	0	0	-0.68	-0.72	0	0	0	0	0	0
5/18/2024 22:27	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/18/2024 22:27	40505	CRES_T1	3	3	0	5.77	6.2	0.43	0	0	0	0	0	0	0	0
5/18/2024 22:28	40502	CRES_T2	4	8	4	0.2	0.3	0.1	0.46	0.43	0	0	0	0	0	0
5/18/2024 22:28	65203	PRIN_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/18/2024 22:28	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/18/2024 22:28	40504	CRES_T1	0	0	0	0	0	0	-0.68	-0.72	0	0	0	0	0	0
5/18/2024 22:28	65205	PRIN_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
5/18/2024 22:28	40505	CRES_T1	3	3	0	5.77	6.2	0.43	0	0	0	0	0	0	0	0
5/18/2024 22:29	22001	BOHE_T1	0	5	5	0	0.1	0.1	0.24	0.24	0	0	0	0	0	0
5/18/2024 22:29	22002	BOHE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/18/2024 22:29	22003	BOHE_T1	8	26	18	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
5/18/2024 22:29	45402	WILO_T2	1	2	1	0.6	0.8	0.2	-1.82	-1.82	1	1	0	900	900	0
5/18/2024 22:32	23001	SAJO_T1	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
5/18/2024 22:32	23403	HONE_T1	0	13	13	0	0.1	0.1	-0.81	-0.81	0	0	0	0	0	0
5/18/2024 22:33	25503	MADI_T1	134	384	250	0.52	0.48	-0.04	-1.06	-1.04	0	0	0	0	0	0
5/18/2024 22:33	25501	MADI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/18/2024 22:33	22602	KIMB_T1	1	1	0	0.1	0.2	0.1	0.31	0.33	0	0	0	0	0	0
5/18/2024 22:34	60101	COCA_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
5/18/2024 22:46	56802	BENV_T2	1	1	0	0.8	0.8	0	-1.57	-1.51	0	0	0	0	0	0
5/18/2024 22:55	48901	FOSP_T2	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
5/18/2024 23:16	62601	ENGL_T1	0	0	0	0	0	0	-1.48	-1.5	0	0	0	0	0	0
5/18/2024 23:31	66505	SMAN_T2	3	3	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/18/2024 23:31	66504	SMAN_T2	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
5/18/2024 23:59	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
5/19/2024 1:11	67605	WARW_T1	56	101	45	0.69	0.52	-0.17	-1.37	-1.37	0	0	0	0	0	0
5/19/2024 1:12	67605	WARW_T1	56	101	45	0.69	0.52	-0.17	-1.37	-1.37	0	0	0	0	0	0
5/19/2024 1:31	67605	WARW_T1	101	86	-15	0.52	0.59	0.07	-1.37	-1.38	0	0	0	0	0	0
5/19/2024 1:32	67605	WARW_T1	101	86	-15	0.52	0.59	0.07	-1.37	-1.38	0	0	0	0	0	0
5/19/2024 7:09	29402	BELT_T1	1	0	-1	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
5/19/2024 7:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 7:22	67703	WERN_T2	0	0	0	0	0	0	-1.07	-1.06	1	1	0	900	900	0
5/19/2024 7:22	29402	BELT_T1	1	1	0	7.7	7.7	0	0	0	0	0	0	0	0	0
5/19/2024 7:22	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 7:23	67703	WERN_T2	0	0	0	0	0	0	-1.06	-1.03	1	1	0	900	900	0
5/19/2024 7:27	53903	HALI_T2	2	2	0	1	1.25	0.25	0	0	0	0	0	0	0	0
5/19/2024 7:27	53902	HALI_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
5/19/2024 7:27	53901	HALI_T2	1	1	0	1	0.8	-0.2	-1.49	-1.45	0	0	0	0	0	0
5/19/2024 7:28	53901	HALI_T2	1	1	0	1	0.8	-0.2	-2.99	-2.9	0	0	0	0	0	0
5/19/2024 7:28	53903	HALI_T2	2	2	0	1	1.25	0.25	0	0	0	0	0	0	0	0
5/19/2024 7:28	53902	HALI_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
5/19/2024 7:29	53901	HALI_T2	1	1	0	1	0.8	-0.2	-2.99	-2.9	0	0	0	0	0	0
5/19/2024 7:29	12006	HATF_T1	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
5/19/2024 7:29	53902	HALI_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
5/19/2024 7:29	53903	HALI_T2	2	2	0	1	1.25	0.25	0	0	0	0	0	0	0	0
5/19/2024 7:33	53902	HALI_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/19/2024 7:33	53903	HALI_T2	2	2	0	1.25	1.1	-0.15	0	0	0	0	0	0	0	0
5/19/2024 7:33	53901	HALI_T2	1	1	0	0.8	0.8	0	-1.49	-1.45	0	0	0	0	0	0
5/19/2024 7:38	53903	HALI_T2	2	2	0	1.25	1.1	-0.15	-0.23	-0.22	0	0	0	0	0	0
5/19/2024 7:38	53901	HALI_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/19/2024 7:38	53902	HALI_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/19/2024 7:39	58006	WCAR_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
5/19/2024 7:44	63802	HEMP_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
5/19/2024 7:44	63804	HEMP_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
5/19/2024 7:53	20401	ASHF_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
5/19/2024 7:53	20403	ASHF_T2	0	0	0	0	0	0	0.01	0.05	0	0	0	0	0	0
5/19/2024 8:06	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/19/2024 8:08	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-0.5	-0.54	0	0	0	0	0	0
5/19/2024 8:09	67804	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 8:09	67803	WLAN_T1	0	0	0	0	0	0	-1.62	-1.61	0	0	0	0	0	0
5/19/2024 8:10	45901	AUBU_T1	0	0	0	0	0	0	0.98	0.95	0	0	0	0	0	0
5/19/2024 8:10	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/19/2024 8:12	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-1	-1.09	0	0	0	0	0	0
5/19/2024 8:14	46801	HEPB_T2	0	2	2	0	0.15	0.15	0.53	0.53	0	0	0	0	0	0
5/19/2024 8:14	40101	HUNT_T2	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
5/19/2024 8:15	46801	HEPB_T2	0	2	2	0	0.15	0.15	0.53	0.53	0	0	0	0	0	0
5/19/2024 8:15	46803	HEPB_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
5/19/2024 8:25	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.1	0	0	0	0	0	0
5/19/2024 8:25	20401	ASHF_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
5/19/2024 8:30	52403	GRPA_T2	0	1	1	0	0.1	0.1	-0.6	-0.62	0	0	0	0	0	0
5/19/2024 8:35	65207	PRIN_T4	0	0	0	0	0	0	0	0	1	2	1	1200	1800	600
5/19/2024 8:36	43202	MVIL_T2	49	25	-24	0.21	0.15	-0.06	-0.69	-0.72	0	0	0	0	0	0
5/19/2024 8:46	44503	HAMI_T2	0	0	0	0	0	0	-1.78	-1.74	1	1	0	1200	1200	0
5/19/2024 8:46	44502	HAMI_T2	1	1	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
5/19/2024 8:50	56501	ROCK_T2	0	2	2	0	0.25	0.25	167.92	167.92	0	0	0	0	0	0
5/19/2024 8:51	56501	ROCK_T2	0	2	2	0	0.25	0.25	83.96	83.96	0	0	0	0	0	0
5/19/2024 8:52	15203	SFAR_T2	0	0	0	0	0	0	-1.38	-1.3	0	0	0	0	0	0
5/19/2024 8:54	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 8:54	29402	BELT_T1	1	1	0	8.3	8.2	-0.1	0	0	0	0	0	0	0	0
5/19/2024 8:57	63803	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/19/2024 8:57	63802	HEMP_T1	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
5/19/2024 8:57	63804	HEMP_T1	1	2	1	5.1	2.65	-2.45	0	0	0	0	0	0	0	0
5/19/2024 8:57	63801	HEMP_T1	4	2	-2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/19/2024 8:59	63804	HEMP_T1	1	2	1	5.1	2.65	-2.45	0.84	0.9	0	0	0	0	0	0
5/19/2024 8:59	63803	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/19/2024 8:59	63801	HEMP_T1	4	2	-2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/19/2024 9:01	63802	HEMP_T1	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
5/19/2024 9:01	63801	HEMP_T1	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/19/2024 9:01	63804	HEMP_T1	2	1	-1	2.65	5.2	2.55	0	0	0	0	0	0	0	0
5/19/2024 9:04	52101	MEIS_T1	2	2	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
5/19/2024 9:04	56501	ROCK_T2	2	2	0	0.25	0.1	-0.15	83.96	83.96	0	0	0	0	0	0
5/19/2024 9:04	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
5/19/2024 9:05	56501	ROCK_T2	2	2	0	0.25	0.1	-0.15	83.96	83.96	0	0	0	0	0	0
5/19/2024 9:06	56501	ROCK_T2	2	2	0	0.25	0.1	-0.15	83.96	83.96	0	0	0	0	0	0
5/19/2024 9:07	59101	WALK_T2	0	0	0	0	0	0	-0.59	-0.63	0	0	0	0	0	0
5/19/2024 9:07	66202	SISP_T2	0	0	0	0	0	0	-0.85	-0.84	0	0	0	0	0	0
5/19/2024 9:08	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/19/2024 9:08	29402	BELT_T1	1	1	0	8.2	8	-0.2	0	0	0	0	0	0	0	0
5/19/2024 9:09	56803	BENV_T1	1	1	0	2.6	0	-2.6	-0.12	-0.1	0	0	0	0	0	0
5/19/2024 9:09	56801	BENV_T1	2	6	4	0.2	0.72	0.52	0	0	0	0	0	0	0	0
5/19/2024 9:09	56501	ROCK_T2	2	2	0	0.25	0.1	-0.15	83.96	83.96	0	0	0	0	0	0
5/19/2024 9:09	59101	WALK_T2	0	0	0	0	0	0	-1.26	-1.26	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/19/2024 9:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 9:10	29402	BELT_T1	1	1	0	8.2	8	-0.2	0	0	0	0	0	0	0	0
5/19/2024 9:12	40101	HUNT_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
5/19/2024 9:13	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 9:13	61302	EARL_T1	0	0	0	0	0	0	-0.42	-0.37	2	2	0	1800	1800	0
5/19/2024 9:20	66504	SMAN_T2	0	0	0	0	0	0	-0.42	-0.39	0	0	0	0	0	0
5/19/2024 9:21	66503	SMAN_T2	0	0	0	0	0	0	0.37	0.33	0	0	0	0	0	0
5/19/2024 9:21	66502	SMAN_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
5/19/2024 9:22	45902	AUBU_T1	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
5/19/2024 9:23	17101	WTRE_T2	424	387	-37	0.47	0.34	-0.13	0	0	0	0	0	0	0	0
5/19/2024 9:23	56803	BENV_T1	1	1	0	1.4	0	-1.4	0	0	0	0	0	0	0	0
5/19/2024 9:23	17102	WTRE_T2	0	0	0	0	0	0	0.16	0.24	0	0	0	0	0	0
5/19/2024 9:23	56801	BENV_T1	1	12	11	0.3	0.68	0.38	-1.12	-1.11	1	2	1	600	1200	600
5/19/2024 9:23	45902	AUBU_T1	0	0	0	0	0	0	-0.53	-0.48	0	0	0	0	0	0
5/19/2024 9:25	17102	WTRE_T2	0	0	0	0	0	0	0.24	0.29	0	0	0	0	0	0
5/19/2024 9:25	17101	WTRE_T2	424	387	-37	0.47	0.34	-0.13	0	0	0	0	0	0	0	0
5/19/2024 9:26	29402	BELT_T1	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
5/19/2024 9:26	21203	ECAR_T1	0	0	0	0	0	0	0.39	0.44	0	0	0	0	0	0
5/19/2024 9:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 9:29	41502	FAIR_T2	0	1	1	0	0	0	-1.66	-1.68	1	1	0	900	900	0
5/19/2024 9:32	44502	HAMI_T2	1	1	0	2.2	2.4	0.2	-0.83	-0.8	0	0	0	0	0	0
5/19/2024 9:34	41902	REED_T1	0	0	0	0	0	0	0.83	0.83	0	0	0	0	0	0
5/19/2024 9:37	41902	REED_T1	0	0	0	0	0	0	0.83	0.83	0	0	0	0	0	0
5/19/2024 9:39	45902	AUBU_T1	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
5/19/2024 9:39	29402	BELT_T1	1	1	0	7.8	7.9	0.1	0	0	0	0	0	0	0	0
5/19/2024 9:39	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 9:41	26603	BROO_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
5/19/2024 9:55	56802	BENV_T2	0	0	0	0	0	0	-1.44	-1.41	0	0	0	0	0	0
5/19/2024 9:55	29402	BELT_T1	1	1	0	7.9	7.7	-0.2	0	0	0	0	0	0	0	0
5/19/2024 10:00	41801	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/19/2024 10:00	17803	GILB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/19/2024 10:00	40505	CRES_T1	3	3	0	5.13	5.07	-0.06	0.27	0.31	0	0	0	0	0	0
5/19/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-1.49	-1.44	1	1	0	900	900	0
5/19/2024 10:00	17804	GILB_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
5/19/2024 10:00	46602	LACR_T1	0	0	0	0	0	0	-0.43	-0.37	0	0	0	0	0	0
5/19/2024 10:00	40504	CRES_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 10:04	58401	MORO_T1	0	0	0	0	0	0	-1.14	-1.08	1	1	0	600	600	0
5/19/2024 10:06	67503	WEWI_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
5/19/2024 10:06	58003	WCAR_T1	1	2	1	1.6	0.9	-0.7	0	0	2	2	0	1200	1200	0
5/19/2024 10:06	58001	WCAR_T1	4	4	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
5/19/2024 10:06	58401	MORO_T1	0	0	0	0	0	0	-1.14	-1.08	1	1	0	600	600	0
5/19/2024 10:07	15702	TANN_T2	1	1	0	0.3	0	-0.3	-0.37	-0.43	0	0	0	0	0	0
5/19/2024 10:07	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
5/19/2024 10:08	66503	SMAN_T2	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
5/19/2024 10:08	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/19/2024 10:09	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.43	0	0	0	0	0	0
5/19/2024 10:10	29402	BELT_T1	1	1	0	7.7	8	0.3	0	0	0	0	0	0	0	0
5/19/2024 10:10	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.43	0	0	0	0	0	0
5/19/2024 10:10	20403	ASHF_T2	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
5/19/2024 10:10	29401	BELT_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
5/19/2024 10:10	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
5/19/2024 10:10	15702	TANN_T2	1	1	0	0.3	0	-0.3	-0.43	-0.4	0	0	0	0	0	0
5/19/2024 10:11	44301	BEAV_T2	0	9	9	0	0.24	0.24	-3.21	-3.18	3	3	0	1800	1800	0
5/19/2024 10:11	45902	AUBU_T1	0	0	0	0	0	0	-0.92	-0.85	0	0	0	0	0	0
5/19/2024 10:11	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/19/2024 10:11	67703	WERN_T2	0	0	0	0	0	0	-0.89	-0.93	1	1	0	900	900	0
5/19/2024 10:11	45901	AUBU_T1	0	0	0	0	0	0	0.97	0.97	0	0	0	0	0	0
5/19/2024 10:11	16301	ALPA_T1	0	0	0	0	0	0	-0.43	-0.35	0	0	0	0	0	0
5/19/2024 10:11	29402	BELT_T1	1	1	0	7.7	8	0.3	0	0	0	0	0	0	0	0
5/19/2024 10:12	44301	BEAV_T2	0	9	9	0	0.24	0.24	-1.07	-1.06	1	1	0	600	600	0
5/19/2024 10:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 10:13	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.43	0	0	0	0	0	0
5/19/2024 10:13	44301	BEAV_T2	0	9	9	0	0.24	0.24	-2.14	-2.12	2	2	0	1200	1200	0
5/19/2024 10:13	29402	BELT_T1	1	1	0	7.7	8	0.3	0	0	0	0	0	0	0	0
5/19/2024 10:13	63305	GREE_T1	0	0	0	0	0	0	-2.36	-2.35	1	1	0	900	900	0
5/19/2024 10:14	63304	GREE_T1	0	0	0	0	0	0	-0.4	-0.36	0	0	0	0	0	0
5/19/2024 10:14	29402	BELT_T1	1	1	0	7.7	8	0.3	0	0	0	0	0	0	0	0
5/19/2024 10:15	46801	HEPB_T2	0	2	2	0	0.25	0.25	1.28	1.44	0	0	0	0	0	0
5/19/2024 10:15	29402	BELT_T1	1	1	0	7.5	8	0.5	0	0	0	0	0	0	0	0
5/19/2024 10:15	63305	GREE_T1	0	0	0	0	0	0	-2.36	-2.35	1	1	0	900	900	0
5/19/2024 10:15	63304	GREE_T1	0	0	0	0	0	0	-0.4	-0.36	0	0	0	0	0	0
5/19/2024 10:15	46803	HEPB_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/19/2024 10:15	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 10:16	46803	HEPB_T2	0	1	1	0	0.4	0.4	0.44	0.45	0	0	0	0	0	0
5/19/2024 10:16	63403	HONY_T2	0	0	0	0	0	0	0.15	0.1	0	0	0	0	0	0
5/19/2024 10:16	46801	HEPB_T2	0	2	2	0	0.25	0.25	0.64	0.72	0	0	0	0	0	0
5/19/2024 10:16	63402	HONY_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
5/19/2024 10:17	13503	MCMI_T2	150	103	-47	0.26	0.21	-0.05	-0.97	-0.98	0	0	0	0	0	0
5/19/2024 10:17	25503	MADI_T1	30	31	1	0.17	0.15	-0.02	-0.9	-0.92	0	0	0	0	0	0
5/19/2024 10:19	44301	BEAV_T2	6	6	0	0.22	0.28	0.06	-1.07	-1.06	1	1	0	600	600	0
5/19/2024 10:19	46801	HEPB_T2	0	2	2	0	0.25	0.25	0.64	0.72	0	0	0	0	0	0
5/19/2024 10:19	13503	MCMI_T2	150	103	-47	0.26	0.21	-0.05	-0.97	-0.98	0	0	0	0	0	0
5/19/2024 10:19	46803	HEPB_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/19/2024 10:21	43202	MVIL_T2	30	57	27	0.17	0.25	0.08	-0.69	-0.67	0	0	0	0	0	0
5/19/2024 10:21	67605	WARW_T1	10	9	-1	0.23	0.29	0.06	-1.16	-1.17	0	0	0	0	0	0
5/19/2024 10:22	65205	PRIN_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
5/19/2024 10:22	59101	WALK_T2	0	0	0	0	0	0	-0.64	-0.6	0	0	0	0	0	0
5/19/2024 10:23	59101	WALK_T2	0	0	0	0	0	0	-0.6	-0.52	0	0	0	0	0	0
5/19/2024 10:24	26603	BROO_T1	0	0	0	0	0	0	-0.21	-0.03	0	0	0	0	0	0
5/19/2024 10:26	59101	WALK_T2	0	0	0	0	0	0	-0.6	-0.52	0	0	0	0	0	0
5/19/2024 10:28	26603	BROO_T1	0	0	0	0	0	0	-0.21	-0.03	0	0	0	0	0	0
5/19/2024 10:28	22003	BOHE_T1	6	6	0	0.9	0.82	-0.08	0	0	0	0	0	0	0	0
5/19/2024 10:28	22002	BOHE_T1	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
5/19/2024 10:29	63801	HEMP_T1	0	0	0	0	0	0	-0.26	-0.3	0	0	0	0	0	0
5/19/2024 10:29	21203	ECAR_T1	1	2	1	0.9	1.15	0.25	0.47	0.47	0	0	0	0	0	0
5/19/2024 10:29	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/19/2024 10:32	65502	MOJO_T2	0	0	0	0	0	0	-0.75	-0.75	1	1	0	900	900	0
5/19/2024 10:32	60504	NMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/19/2024 10:32	60502	NMAN_T2	0	0	0	0	0	0	-0.51	-0.43	0	0	0	0	0	0
5/19/2024 10:32	60501	NMAN_T2	3	3	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
5/19/2024 10:33	65502	MOJO_T2	0	0	0	0	0	0	-0.75	-0.75	1	1	0	900	900	0
5/19/2024 10:33	13302	ORVI_T2	1	2	1	0.8	0.5	-0.3	1.48	1.53	0	0	0	0	0	0
5/19/2024 10:34	13302	ORVI_T2	1	2	1	0.8	0.5	-0.3	1.48	1.53	0	0	0	0	0	0
5/19/2024 10:35	41902	REED_T1	0	0	0	0	0	0	0.87	0.92	0	0	0	0	0	0
5/19/2024 10:36	59202	THOM_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/19/2024 10:36	13303	ORVI_T1	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
5/19/2024 10:37	13302	ORVI_T2	1	2	1	0.8	0.5	-0.3	1.48	1.53	0	0	0	0	0	0
5/19/2024 10:37	41902	REED_T1	0	0	0	0	0	0	0.87	0.92	0	0	0	0	0	0
5/19/2024 10:38	15702	TANN_T2	0	1	1	0	1	1	-0.4	-0.4	0	0	0	0	0	0
5/19/2024 10:38	15703	TANN_T2	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 10:38	13302	ORVI_T2	1	2	1	0.8	0.5	-0.3	1.48	1.53	0	0	0	0	0	0
5/19/2024 10:40	62102	ELAN_T1	0	0	0	0	0	0	0.66	0.74	0	0	0	0	0	0
5/19/2024 10:42	62104	ELAN_T1	0	0	0	0	0	0	-0.2	-0.24	2	2	0	1500	1500	0
5/19/2024 10:43	62104	ELAN_T1	0	0	0	0	0	0	-0.2	-0.24	2	2	0	1500	1500	0
5/19/2024 10:43	62106	ELAN_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
5/19/2024 10:44	62104	ELAN_T1	0	0	0	0	0	0	-0.2	-0.24	2	2	0	1500	1500	0
5/19/2024 10:45	52403	GRPA_T2	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
5/19/2024 10:47	63401	HONY_T1	0	0	0	0	0	0	0.45	0.51	0	0	0	0	0	0
5/19/2024 10:47	63404	HONY_T1	106	92	-14	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
5/19/2024 10:48	55002	NEWP_T1	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
5/19/2024 10:48	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 10:49	55002	NEWP_T1	0	0	0	0	0	0	-0.46	-0.4	0	0	0	0	0	0
5/19/2024 10:49	66202	SISP_T2	0	0	0	0	0	0	-0.8	-0.73	0	0	0	0	0	0
5/19/2024 10:49	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 10:50	13905	SEID_T1	1	0	-1	5.1	0	-5.1	0.32	0.38	0	0	0	0	0	0
5/19/2024 10:50	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
5/19/2024 10:51	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
5/19/2024 10:52	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 10:52	58003	WCAR_T1	1	1	0	1.6	1.3	-0.3	0	0	0	0	0	0	0	0
5/19/2024 10:52	55002	NEWP_T1	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
5/19/2024 10:52	66202	SISP_T2	0	0	0	0	0	0	-0.8	-0.73	0	0	0	0	0	0
5/19/2024 10:52	66203	SISP_T2	0	0	0	0	0	0	-1.44	-1.4	1	1	0	1200	1200	0
5/19/2024 10:52	64101	REFR_T1	0	0	0	0	0	0	-0.4	-0.33	0	0	0	0	0	0
5/19/2024 10:52	58001	WCAR_T1	4	4	0	0.48	0.63	0.15	-0.61	-0.61	0	0	0	0	0	0
5/19/2024 10:54	20401	ASHF_T2	0	0	0	0	0	0	-0.29	-0.24	0	0	0	0	0	0
5/19/2024 10:54	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
5/19/2024 10:55	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
5/19/2024 10:59	23401	HONE_T2	0	1	1	0	0.2	0.2	0.23	0.24	0	0	0	0	0	0
5/19/2024 11:02	40101	HUNT_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
5/19/2024 11:03	58402	MORO_T1	0	1	1	0	0	0	-0.8	-1.08	4	4	0	3000	3000	0
5/19/2024 11:04	42903	MIDD_T2	2	2	0	0.95	1.05	0.1	0	0	0	0	0	0	0	0
5/19/2024 11:04	59002	MIFF_T1	6	6	0	0.23	0.35	0.12	0	0	0	0	0	0	0	0
5/19/2024 11:04	59003	MIFF_T1	0	0	0	0	0	0	0.43	0.49	0	0	0	0	0	0
5/19/2024 11:04	58402	MORO_T1	0	1	1	0	0	0	-0.4	-0.54	2	2	0	1500	1500	0
5/19/2024 11:04	42902	MIDD_T2	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
5/19/2024 11:05	66701	STRA_T1	0	0	0	0	0	0	-0.19	-0.14	1	1	0	600	600	0
5/19/2024 11:12	29402	BELT_T1	1	1	0	7.6	7.6	0	0	0	0	0	0	0	0	0
5/19/2024 11:14	29402	BELT_T1	1	1	0	7.6	7.6	0	0	0	0	0	0	0	0	0
5/19/2024 11:14	40101	HUNT_T2	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
5/19/2024 11:15	41502	FAIR_T2	0	0	0	0	0	0	-1.63	-1.62	1	1	0	900	900	0
5/19/2024 11:15	17802	GILB_T1	2	1	-1	0.7	1.4	0.7	-0.01	0	0	0	0	0	0	0
5/19/2024 11:20	65205	PRIN_T1	1	1	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
5/19/2024 11:20	65503	MOJO_T2	0	0	0	0	0	0	-1.91	-1.97	2	2	0	1800	1800	0
5/19/2024 11:20	56501	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/19/2024 11:21	56501	ROCK_T2	0	0	0	0	0	0	167.92	167.92	0	0	0	0	0	0
5/19/2024 11:22	56501	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/19/2024 11:22	66703	STRA_T1	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
5/19/2024 11:23	56501	ROCK_T2	0	0	0	0	0	0	167.92	167.92	0	0	0	0	0	0
5/19/2024 11:24	13302	ORVI_T2	1	3	2	0.7	0.67	-0.03	1.47	1.54	0	0	0	0	0	0
5/19/2024 11:24	56501	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/19/2024 11:24	60801	BUCK_T1	0	0	0	0	0	0	-0.82	-0.83	1	1	0	600	600	0
5/19/2024 11:26	21203	ECAR_T1	2	2	0	0.7	1.25	0.55	0.48	0.5	0	0	0	0	0	0
5/19/2024 11:26	60801	BUCK_T1	0	0	0	0	0	0	-0.82	-0.83	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/19/2024 11:29	29402	BELT_T1	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
5/19/2024 11:29	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 11:30	40702	FFLD_T1	0	0	0	0	0	0	-1.19	-1.22	1	1	0	1200	1200	0
5/19/2024 11:30	17805	GILB_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/19/2024 11:30	17804	GILB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/19/2024 11:32	42903	MIDD_T2	2	2	0	1	0.7	-0.3	-0.09	-0.29	0	0	0	0	0	0
5/19/2024 11:34	13302	ORVI_T2	1	3	2	0.4	0.67	0.27	1.47	1.54	0	0	0	0	0	0
5/19/2024 11:36	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
5/19/2024 11:36	52101	MEIS_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
5/19/2024 11:36	13302	ORVI_T2	1	3	2	0.4	0.67	0.27	1.47	1.54	0	0	0	0	0	0
5/19/2024 11:41	22003	BOHE_T1	3	4	1	0.53	1.5	0.97	0	0	0	0	0	0	0	0
5/19/2024 11:44	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 11:44	29402	BELT_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
5/19/2024 11:45	12003	HATF_T1	2	2	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
5/19/2024 11:45	12002	HATF_T1	1	0	-1	0.1	0	-0.1	-0.15	-0.12	0	0	0	0	0	0
5/19/2024 11:45	53901	HALI_T2	1	2	1	0.2	0.1	-0.1	-1.33	-1.27	0	0	0	0	0	0
5/19/2024 11:45	53903	HALI_T2	4	5	1	0.63	0.66	0.03	0	0	0	0	0	0	0	0
5/19/2024 11:45	12006	HATF_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/19/2024 11:45	53902	HALI_T2	2	2	0	2.7	2.75	0.05	0	0	0	0	0	0	0	0
5/19/2024 11:47	53903	HALI_T2	4	5	1	0.63	0.66	0.03	0	0	0	0	0	0	0	0
5/19/2024 11:47	53902	HALI_T2	2	2	0	2.7	2.75	0.05	0	0	0	0	0	0	0	0
5/19/2024 11:47	53901	HALI_T2	1	2	1	0.2	0.1	-0.1	-1.33	-1.27	0	0	0	0	0	0
5/19/2024 11:53	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 11:54	60101	COCA_T1	0	0	0	0	0	0	0.3	0.4	0	0	0	0	0	0
5/19/2024 11:54	45902	AUBU_T1	2	3	1	0.4	1.1	0.7	-0.77	-0.83	0	0	0	0	0	0
5/19/2024 11:55	42601	TUSC_T1	0	0	0	0	0	0	-0.42	-0.39	2	2	0	1800	1800	0
5/19/2024 11:55	60101	COCA_T1	0	0	0	0	0	0	0.3	0.4	0	0	0	0	0	0
5/19/2024 11:55	64101	REFR_T1	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
5/19/2024 11:56	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 11:57	56801	BENV_T1	2	15	13	0.25	0.66	0.41	-0.93	-0.98	2	2	0	1200	1200	0
5/19/2024 11:57	56803	BENV_T1	1	1	0	0.4	0	-0.4	-0.05	-0.06	0	0	0	0	0	0
5/19/2024 11:57	16102	BING_T2	1	0	-1	0.5	0	-0.5	0.08	0.08	0	0	0	0	0	0
5/19/2024 11:57	52403	GRPA_T2	0	4	4	0	1.15	1.15	0.08	0.09	0	0	0	0	0	0
5/19/2024 11:57	22001	BOHE_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
5/19/2024 11:57	22002	BOHE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/19/2024 11:57	22003	BOHE_T1	4	3	-1	1.18	1.9	0.72	0	0	0	0	0	0	0	0
5/19/2024 11:58	45902	AUBU_T1	2	3	1	0.4	1.1	0.7	-0.39	-0.42	0	0	0	0	0	0
5/19/2024 11:58	60101	COCA_T1	0	0	0	0	0	0	0.3	0.4	0	0	0	0	0	0
5/19/2024 12:05	43202	MVIL_T2	1	1	0	1	0.3	-0.7	-0.66	-0.67	0	0	0	0	0	0
5/19/2024 12:07	43202	MVIL_T2	1	1	0	1	0.3	-0.7	-0.66	-0.67	0	0	0	0	0	0
5/19/2024 12:09	43304	WATS_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
5/19/2024 12:09	16302	ALPA_T2	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
5/19/2024 12:10	10102	ALLE_T2	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
5/19/2024 12:10	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 12:11	16302	ALPA_T2	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
5/19/2024 12:11	10102	ALLE_T2	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
5/19/2024 12:12	16302	ALPA_T2	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
5/19/2024 12:13	16302	ALPA_T2	0	0	0	0	0	0	1.28	1.22	0	0	0	0	0	0
5/19/2024 12:13	46004	BERW_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
5/19/2024 12:18	23401	HONE_T2	0	0	0	0	0	0	0.31	0.26	0	0	0	0	0	0
5/19/2024 12:20	54602	SUMM_T2	0	0	0	0	0	0	-2.29	-2.25	1	1	0	600	600	0
5/19/2024 12:20	65901	SAKR_T2	1	1	0	8.1	8.3	0.2	-1.62	-1.51	2	2	0	1500	1500	0
5/19/2024 12:22	43301	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 12:22	43304	WATS_T2	1	2	1	0.5	2	1.5	0	0	0	0	0	0	0	0
5/19/2024 12:22	45402	WBLO_T2	0	2	2	0	0.65	0.65	-1.64	-1.63	1	1	0	900	900	0
5/19/2024 12:27	40101	HUNT_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
5/19/2024 12:28	24102	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 12:28	17401	FOHI_T1	0	0	0	0	0	0	-1.91	-1.93	0	0	0	0	0	0
5/19/2024 12:28	24104	EHAZ_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	1200	1200	0
5/19/2024 12:28	24105	EHAZ_T1	4	4	0	6.25	6.25	0	0	0	0	0	0	0	0	0
5/19/2024 12:28	61302	EARL_T1	0	0	0	0	0	0	-0.34	-0.28	2	2	0	1800	1800	0
5/19/2024 12:28	24101	EHAZ_T1	12	17	5	0.69	0.18	-0.51	0	0	0	0	0	0	0	0
5/19/2024 12:31	10901	COOP_T2	0	0	0	0	0	0	0.89	0.9	0	0	0	0	0	0
5/19/2024 12:31	10903	COOP_T2	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
5/19/2024 12:32	11405	FARM_T1	0	0	0	0	0	0	-0.72	-0.67	1	1	0	1200	1200	0
5/19/2024 12:32	17804	GILB_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
5/19/2024 12:32	11402	FARM_T1	1	4	3	0.2	0.55	0.35	0	0	0	0	0	0	0	0
5/19/2024 12:32	11404	FARM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/19/2024 12:33	41902	REED_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/19/2024 12:33	41901	REED_T1	0	0	0	0	0	0	-1.96	-1.99	1	1	0	900	900	0
5/19/2024 12:36	54601	SUMM_T2	0	0	0	0	0	0	-1.69	-1.63	2	2	0	2100	2100	0
5/19/2024 12:37	40101	HUNT_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
5/19/2024 12:37	43304	WATS_T2	2	2	0	2	1	-1	0	0	0	0	0	0	0	0
5/19/2024 12:38	43304	WATS_T2	2	2	0	2	1	-1	0	0	0	0	0	0	0	0
5/19/2024 12:39	67903	WNHO_T1	0	0	0	0	0	0	0.13	0.16	1	1	0	1200	1200	0
5/19/2024 12:42	61303	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 12:43	63302	GREE_T1	0	0	0	0	0	0	0.32	0.37	0	0	0	0	0	0
5/19/2024 12:43	60902	DONG_T2	0	0	0	0	0	0	1.11	1.1	0	0	0	0	0	0
5/19/2024 12:44	14207	EALL_T1	1	1	0	2.8	3.3	0.5	0	0	0	0	0	0	0	0
5/19/2024 12:44	14201	EALL_T1	0	0	0	0	0	0	0.71	0.68	0	0	0	0	0	0
5/19/2024 12:46	17401	FOHI_T1	0	0	0	0	0	0	-1.93	-1.92	0	0	0	0	0	0
5/19/2024 12:47	59302	MCAL_T1	1	1	0	0.2	0.2	0	-0.37	-0.36	1	1	0	600	600	0
5/19/2024 12:47	59301	MCAL_T1	6	7	1	0.52	0.59	0.07	0	0	0	0	0	0	0	0
5/19/2024 12:50	12701	MACU_T1	0	0	0	0	0	0	0.24	0.18	0	0	0	0	0	0
5/19/2024 12:51	14801	TREI_T2	0	1	1	0	0.4	0.4	0.5	0.48	0	0	0	0	0	0
5/19/2024 12:52	64101	REFR_T1	0	1	1	0	0.8	0.8	-0.01	-0.04	0	0	0	0	0	0
5/19/2024 12:53	67605	WARW_T1	0	2	2	0	0.65	0.65	-1.1	-1.06	0	0	0	0	0	0
5/19/2024 12:53	15603	NSTR_T2	0	1	1	0	0.4	0.4	-0.59	-0.58	0	0	0	0	0	0
5/19/2024 12:53	64101	REFR_T1	0	1	1	0	0.8	0.8	-0.07	-0.1	0	0	0	0	0	0
5/19/2024 12:53	61102	BERK_T5	0	0	0	0	0	0	1.45	1.26	2	2	0	600	600	0
5/19/2024 12:54	67606	WARW_T1	0	2	2	0	0.65	0.65	-2.21	-2.12	0	0	0	0	0	0
5/19/2024 12:54	64101	REFR_T1	0	1	1	0	0.8	0.8	-0.04	-0.05	0	0	0	0	0	0
5/19/2024 12:54	45901	AUBU_T1	0	0	0	0	0	0	1.03	1	0	0	0	0	0	0
5/19/2024 12:54	66504	SMAN_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
5/19/2024 12:54	45902	AUBU_T1	3	3	0	0.4	0.73	0.33	0	0	0	0	0	0	0	0
5/19/2024 12:55	64101	REFR_T1	0	1	1	0	0.8	0.8	-0.07	-0.1	0	0	0	0	0	0
5/19/2024 12:56	64101	REFR_T1	0	1	1	0	0.8	0.8	-0.04	-0.05	0	0	0	0	0	0
5/19/2024 12:58	63404	HONY_T1	132	141	9	0.34	0.4	0.06	0	0	0	0	0	0	0	0
5/19/2024 12:58	63401	HONY_T1	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
5/19/2024 12:59	63404	HONY_T1	132	141	9	0.34	0.4	0.06	0	0	0	0	0	0	0	0
5/19/2024 12:59	20601	GRWO_T2	0	0	0	0	0	0	-0.3	-0.25	0	0	0	0	0	0
5/19/2024 12:59	20603	GRWO_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
5/19/2024 12:59	63401	HONY_T1	0	0	0	0	0	0	1.04	1.04	0	0	0	0	0	0
5/19/2024 13:00	46506	LOHA_T1	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
5/19/2024 13:00	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 13:02	65501	MOJO_T1	0	0	0	0	0	0	-1.16	-1.16	1	1	0	900	900	0
5/19/2024 13:02	27603	PIRI_T2	0	0	0	0	0	0	-1.12	-1.13	2	2	0	1800	1800	0
5/19/2024 13:04	65001	NEFF_T2	0	0	0	0	0	0	-0.97	-1.01	1	1	0	1200	1200	0
5/19/2024 13:04	65002	NEFF_T2	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
5/19/2024 13:04	65005	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/19/2024 13:04	66504	SMAN_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
5/19/2024 13:06	12502	MITR_T2	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 13:06	66502	SMAN_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
5/19/2024 13:06	13704	SCHN_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
5/19/2024 13:06	60301	TWVA_T2	0	0	0	0	0	0	-1.15	-1.01	1	1	0	600	600	0
5/19/2024 13:06	12505	MITR_T2	1	2	1	0.1	0.3	0.2	0.45	0.46	0	0	0	0	0	0
5/19/2024 13:08	66504	SMAN_T2	0	0	0	0	0	0	-1.03	-0.75	0	0	0	0	0	0
5/19/2024 13:08	13606	RICH_T2	1	1	0	7.3	7.2	-0.1	0.72	0.69	0	0	0	0	0	0
5/19/2024 13:11	61303	EARL_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
5/19/2024 13:13	61703	ELIZ_T1	0	0	0	0	0	0	-2.22	-2.19	2	2	0	2100	2100	0
5/19/2024 13:13	61701	ELIZ_T1	1	1	0	3.9	3.8	-0.1	0	0	0	0	0	0	0	0
5/19/2024 13:14	61303	EARL_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
5/19/2024 13:15	63201	MGTN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 13:15	61302	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 13:15	63202	MGTN_T2	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
5/19/2024 13:15	61303	EARL_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
5/19/2024 13:16	44503	HAMI_T2	0	0	0	0	0	0	-1.62	-1.6	1	1	0	1200	1200	0
5/19/2024 13:16	44505	HAMI_T2	3	3	0	0.2	0.53	0.33	0	0	0	0	0	0	0	0
5/19/2024 13:16	44502	HAMI_T2	1	1	0	2.6	2.4	-0.2	0	0	0	0	0	0	0	0
5/19/2024 13:17	58401	MORO_T1	0	0	0	0	0	0	-1.05	-1	1	1	0	600	600	0
5/19/2024 13:19	66504	SMAN_T2	0	0	0	0	0	0	-0.34	-0.25	0	0	0	0	0	0
5/19/2024 13:21	58401	MORO_T1	0	0	0	0	0	0	-1.05	-1	1	1	0	600	600	0
5/19/2024 13:21	40302	TAMA_T3	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
5/19/2024 13:21	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 13:22	66503	SMAN_T2	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
5/19/2024 13:23	13606	RICH_T2	1	1	0	7.2	7.4	0.2	0.69	0.71	0	0	0	0	0	0
5/19/2024 13:24	14103	TRUM_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/19/2024 13:24	14102	TRUM_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/19/2024 13:24	14101	TRUM_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
5/19/2024 13:25	60102	COCA_T1	0	0	0	0	0	0	0.37	0.41	2	2	0	1200	1200	0
5/19/2024 13:25	60101	COCA_T1	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
5/19/2024 13:26	60101	COCA_T1	0	3	3	0	0.43	0.43	0.41	0.41	0	0	0	0	0	0
5/19/2024 13:26	56802	BENV_T2	0	0	0	0	0	0	-1.27	-1.28	0	0	0	0	0	0
5/19/2024 13:27	60101	COCA_T1	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
5/19/2024 13:27	60102	COCA_T1	0	0	0	0	0	0	0.37	0.41	2	2	0	1200	1200	0
5/19/2024 13:28	17401	FOHI_T1	0	0	0	0	0	0	-1.86	-1.89	0	0	0	0	0	0
5/19/2024 13:30	52403	GRPA_T2	0	1	1	0	0.3	0.3	0.12	0.1	0	0	0	0	0	0
5/19/2024 13:35	43202	MVIL_T2	1	11	10	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
5/19/2024 13:35	43201	MVIL_T2	0	1	1	0	0.2	0.2	-0.35	-0.33	0	0	0	0	0	0
5/19/2024 13:35	13701	SCHN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/19/2024 13:35	13704	SCHN_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
5/19/2024 13:36	54601	SUMM_T2	0	0	0	0	0	0	-1.6	-1.63	2	2	0	2100	2100	0
5/19/2024 13:37	57004	WHHI_T2	0	0	0	0	0	0	0.5	-0.56	0	0	0	0	0	0
5/19/2024 13:37	13503	MCMI_T2	2	44	42	0.2	0.18	-0.02	-0.93	-0.93	0	0	0	0	0	0
5/19/2024 13:37	67605	WARW_T1	1	1	0	1.8	1.8	0	-1.03	-1.01	0	0	0	0	0	0
5/19/2024 13:37	67603	WARW_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/19/2024 13:38	67603	WARW_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/19/2024 13:38	67605	WARW_T1	1	1	0	1.8	1.8	0	-1.01	-1.03	0	0	0	0	0	0
5/19/2024 13:39	67605	WARW_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
5/19/2024 13:39	67603	WARW_T1	1	0	-1	0.4	0	-0.4	0.01	0.04	0	0	0	0	0	0
5/19/2024 13:40	67603	WARW_T1	1	0	-1	0.4	0	-0.4	0.01	0.04	0	0	0	0	0	0
5/19/2024 13:40	61802	EELI_T2	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/19/2024 13:40	29402	BELT_T1	5	1	-4	1.94	8.8	6.86	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/19/2024 13:40	61801	EELI_T2	0	0	0	0	0	0	-1.23	-1.16	2	2	0	1200	1200	0
5/19/2024 13:40	67605	WARW_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
5/19/2024 13:40	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 13:41	43304	WATS_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
5/19/2024 13:41	43302	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/19/2024 13:43	61102	BERK_T5	0	0	0	0	0	0	-0.16	0.02	1	1	0	300	300	0
5/19/2024 13:44	49803	UNIV_T1	0	1	1	0	1	1	-0.86	-0.88	0	0	0	0	0	0
5/19/2024 13:44	29402	BELT_T1	5	1	-4	1.94	8.8	6.86	0	0	0	0	0	0	0	0
5/19/2024 13:46	44502	HAMI_T2	1	1	0	2.3	2.3	0	-0.75	-0.71	0	0	0	0	0	0
5/19/2024 13:46	60101	COCA_T1	3	4	1	0.43	0.25	-0.18	0.41	0.41	0	0	0	0	0	0
5/19/2024 13:46	44505	HAMI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 13:48	47403	PENS_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
5/19/2024 13:48	47401	PENS_T1	0	1	1	0	0.3	0.3	1	1.01	0	0	0	0	0	0
5/19/2024 13:48	47402	PENS_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/19/2024 13:50	60101	COCA_T1	3	4	1	0.43	0.25	-0.18	0.41	0.41	0	0	0	0	0	0
5/19/2024 13:52	67703	WERN_T2	0	1	1	0	0.3	0.3	-0.79	-0.74	1	1	0	900	900	0
5/19/2024 13:52	67605	WARW_T1	1	1	0	1.8	1.2	-0.6	-1.01	-1.03	0	0	0	0	0	0
5/19/2024 13:53	67605	WARW_T1	1	1	0	1.8	1.2	-0.6	-1.03	-1.01	0	0	0	0	0	0
5/19/2024 13:54	40201	BEGA_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
5/19/2024 13:54	67605	WARW_T1	1	1	0	1.8	1.2	-0.6	-1.03	-1.01	0	0	0	0	0	0
5/19/2024 13:56	10801	OHHI_T1	1	4	3	0.1	1	0.9	-1.15	-1.16	2	2	0	1500	1500	0
5/19/2024 13:56	41501	FAIR_T2	0	0	0	0	0	0	-1.15	-1.19	1	1	0	600	600	0
5/19/2024 13:57	41504	FAIR_T2	0	0	0	0	0	0	-0.92	-0.94	0	0	0	0	0	0
5/19/2024 13:57	40201	BEGA_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
5/19/2024 13:57	46004	BERW_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/19/2024 13:57	46002	BERW_T2	0	0	0	0	0	0	-1.29	-1.3	1	1	0	900	900	0
5/19/2024 13:59	44505	HAMI_T2	0	2	2	0	0.1	0.1	0.42	0.41	0	0	0	0	0	0
5/19/2024 13:59	44502	HAMI_T2	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
5/19/2024 14:00	40101	HUNT_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
5/19/2024 14:02	12701	MACU_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
5/19/2024 14:02	44505	HAMI_T2	1	1	0	0.1	0.1	0	0.42	0.41	0	0	0	0	0	0
5/19/2024 14:02	44502	HAMI_T2	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
5/19/2024 14:03	12701	MACU_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
5/19/2024 14:05	52101	MEIS_T1	1	2	1	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/19/2024 14:05	27604	PIRI_T1	0	0	0	0	0	0	0.59	0.62	0	0	0	0	0	0
5/19/2024 14:05	52102	MEIS_T1	2	1	-1	0.95	1.4	0.45	0	0	1	1	0	450	450	0
5/19/2024 14:06	27604	PIRI_T1	0	0	0	0	0	0	0.59	0.62	0	0	0	0	0	0
5/19/2024 14:07	66502	SMAN_T2	0	1	1	0	0.1	0.1	-0.07	-0.06	0	0	0	0	0	0
5/19/2024 14:07	67901	WNHO_T2	116	122	6	0.52	0.57	0.05	-0.39	-0.39	0	0	0	0	0	0
5/19/2024 14:07	67902	WNHO_T2	1	1	0	0.3	1.2	0.9	0	0	0	0	0	0	0	0
5/19/2024 14:07	67703	WERN_T2	0	1	1	0	0.3	0.3	-0.74	-0.7	1	1	0	900	900	0
5/19/2024 14:07	67702	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 14:07	51306	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 14:07	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 14:08	67702	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 14:08	67703	WERN_T2	0	1	1	0	0.3	0.3	-1.4	-1.38	2	2	0	1800	1800	0
5/19/2024 14:08	56501	ROCK_T2	1	2	1	0.2	0.2	0	83.96	83.96	0	0	0	0	0	0
5/19/2024 14:08	56504	ROCK_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
5/19/2024 14:09	61102	BERK_T5	0	1	1	0	0.2	0.2	-0.09	-0.09	1	1	0	300	300	0
5/19/2024 14:09	61103	BERK_T5	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/19/2024 14:09	61101	BERK_T5	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
5/19/2024 14:10	10102	ALLE_T2	1	1	0	8.2	8	-0.2	0	0	0	0	0	0	0	0
5/19/2024 14:10	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 14:10	67702	WERN_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
5/19/2024 14:10	67703	WERN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/19/2024 14:11	51303	WIND_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/19/2024 14:11	51306	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 14:11	67702	WERN_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
5/19/2024 14:11	51305	WIND_T1	0	1	1	0	0.8	0.8	0.23	0.25	0	0	0	0	0	0
5/19/2024 14:11	61302	EARL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/19/2024 14:11	51301	WIND_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
5/19/2024 14:11	61802	EELI_T2	0	2	2	0	0.2	0.2	-1.02	-1.04	0	0	0	0	0	0
5/19/2024 14:11	67703	WERN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/19/2024 14:11	51302	WIND_T2	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
5/19/2024 14:11	61301	EARL_T1	0	0	0	0	0	0	-1.42	-1.43	2	2	0	1800	1800	0
5/19/2024 14:12	51306	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 14:12	61102	BERK_T5	0	1	1	0	0.2	0.2	-0.19	-0.18	2	2	0	600	600	0
5/19/2024 14:12	61103	BERK_T5	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/19/2024 14:12	51304	WIND_T2	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0
5/19/2024 14:12	61101	BERK_T5	0	3	3	0	0.43	0.43	-1.64	-1.63	0	0	0	0	0	0
5/19/2024 14:13	67605	WARW_T1	1	1	0	0.6	1.2	0.6	-1.01	-0.97	0	0	0	0	0	0
5/19/2024 14:14	61102	BERK_T5	0	1	1	0	0.2	0.2	-0.09	-0.09	1	1	0	300	300	0
5/19/2024 14:14	61101	BERK_T5	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
5/19/2024 14:14	67605	WARW_T1	1	1	0	0.6	1.2	0.6	-1.01	-0.97	0	0	0	0	0	0
5/19/2024 14:14	61103	BERK_T5	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/19/2024 14:15	46504	LOHA_T1	2	2	0	0.85	0.55	-0.3	0	0	0	0	0	0	0	0
5/19/2024 14:15	46506	LOHA_T1	1	0	-1	0.1	0	-0.1	-0.43	-0.4	0	0	0	0	0	0
5/19/2024 14:16	12002	HATF_T1	1	1	0	0.8	1	0.2	-0.1	-0.1	0	0	0	0	0	0
5/19/2024 14:16	46506	LOHA_T1	1	0	-1	0.1	0	-0.1	-0.43	-0.4	0	0	0	0	0	0
5/19/2024 14:16	12003	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 14:16	46504	LOHA_T1	2	2	0	0.85	0.55	-0.3	0	0	0	0	0	0	0	0
5/19/2024 14:16	40101	HUNT_T2	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
5/19/2024 14:16	12703	MACU_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
5/19/2024 14:17	46504	LOHA_T1	2	2	0	0.85	0.55	-0.3	0	0	0	0	0	0	0	0
5/19/2024 14:17	46506	LOHA_T1	1	0	-1	0.1	0	-0.1	-0.43	-0.4	0	0	0	0	0	0
5/19/2024 14:18	46506	LOHA_T1	1	0	-1	0.1	0	-0.1	-0.86	-0.8	0	0	0	0	0	0
5/19/2024 14:18	46504	LOHA_T1	2	2	0	0.85	0.55	-0.3	0	0	0	0	0	0	0	0
5/19/2024 14:19	42902	MIDD_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
5/19/2024 14:19	42903	MIDD_T2	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0	0
5/19/2024 14:19	12703	MACU_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
5/19/2024 14:22	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 14:23	59102	WALK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/19/2024 14:23	59101	WALK_T2	0	0	0	0	0	0	-0.52	-0.44	0	0	0	0	0	0
5/19/2024 14:25	40201	BEGA_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
5/19/2024 14:26	67703	WERN_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/19/2024 14:26	67702	WERN_T2	0	1	1	0	0.6	0.6	-0.01	-0.01	0	0	0	0	0	0
5/19/2024 14:33	12502	MITR_T2	1	1	0	7.3	7	-0.3	0	0	0	0	0	0	0	0
5/19/2024 14:33	12505	MITR_T2	0	1	1	0	0.6	0.6	0.5	0.51	0	0	0	0	0	0
5/19/2024 14:33	12501	MITR_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/19/2024 14:35	66502	SMAN_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
5/19/2024 14:35	66504	SMAN_T2	0	1	1	0	0.5	0.5	-1.46	-1.56	1	1	0	1200	1200	0
5/19/2024 14:36	67603	WARW_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
5/19/2024 14:36	67605	WARW_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 14:37	67605	WARW_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 14:37	67603	WARW_T1	0	0	0	0	0	0	0.12	0.06	0	0	0	0	0	0
5/19/2024 14:37	58101	NEKI_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/19/2024 14:37	58102	NEKI_T1	1	1	0	0.9	0.8	-0.1	-2.02	-1.99	1	1	0	1200	1200	0
5/19/2024 14:39	58003	WCAR_T1	3	3	0	0.63	0.8	0.17	0	0	2	2	0	1200	1200	0
5/19/2024 14:39	58001	WCAR_T1	6	6	0	0.78	0.8	0.02	0	0	0	0	0	0	0	0
5/19/2024 14:40	67604	WARW_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
5/19/2024 14:40	67703	WERN_T2	1	1	0	0.3	0.5	0.2	-2.04	-1.92	3	3	0	2700	2700	0
5/19/2024 14:40	67605	WARW_T1	1	1	0	1	1.1	0.1	-0.99	-0.98	0	0	0	0	0	0
5/19/2024 14:40	67702	WERN_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
5/19/2024 14:43	29402	BELT_T1	1	6	5	9	1.75	-7.25	0	0	0	0	0	0	0	0
5/19/2024 14:43	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 14:48	43202	MVIL_T2	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
5/19/2024 14:48	46901	MNTG_T2	0	0	0	0	0	0	0.64	0.78	0	0	0	0	0	0
5/19/2024 14:48	43201	MVIL_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
5/19/2024 14:48	46903	MNTG_T2	7	6	-1	0.73	0.63	-0.1	0	0	0	0	0	0	0	0
5/19/2024 14:52	67605	WARW_T1	1	1	0	0.6	1.1	0.5	-0.99	-0.98	0	0	0	0	0	0
5/19/2024 14:58	14207	EALL_T1	1	1	0	3.3	2.6	-0.7	0	0	0	0	0	0	0	0
5/19/2024 14:58	14203	EALL_T1	1	0	-1	0.5	0	-0.5	-0.09	-0.1	1	1	0	1200	1200	0
5/19/2024 14:59	29402	BELT_T1	6	4	-2	1.75	2.48	0.73	0	0	0	0	0	0	0	0
5/19/2024 14:59	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 15:00	62101	ELAN_T1	0	0	0	0	0	0	1.62	1.68	0	0	0	0	0	0
5/19/2024 15:00	62105	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/19/2024 15:00	53903	HALI_T2	2	6	4	0.85	0.48	-0.37	0	0	0	0	0	0	0	0
5/19/2024 15:00	53902	HALI_T2	3	2	-1	2.03	2.8	0.77	-0.7	-0.7	0	0	0	0	0	0
5/19/2024 15:00	53901	HALI_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
5/19/2024 15:06	64101	REFR_T1	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
5/19/2024 15:08	58003	WCAR_T1	3	5	2	0.8	0.7	-0.1	0	0	1	1	0	600	600	0
5/19/2024 15:08	58001	WCAR_T1	5	6	1	0.68	0.8	0.12	0	0	0	0	0	0	0	0
5/19/2024 15:09	64101	REFR_T1	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
5/19/2024 15:13	62105	ELAN_T1	0	1	1	0	0.2	0.2	1.22	1.26	0	0	0	0	0	0
5/19/2024 15:14	63303	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 15:14	63306	GREE_T1	0	0	0	0	0	0	-1.85	-1.79	1	1	0	900	900	0
5/19/2024 15:16	22602	KIMB_T1	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
5/19/2024 15:16	52401	GRPA_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
5/19/2024 15:17	63306	GREE_T1	0	0	0	0	0	0	-1.85	-1.79	1	1	0	900	900	0
5/19/2024 15:17	63303	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/19/2024 15:20	54601	SUMM_T2	0	0	0	0	0	0	-1.57	-1.59	2	2	0	2100	2100	0
5/19/2024 15:21	54601	SUMM_T2	0	0	0	0	0	0	-3.13	-3.19	4	4	0	4200	4200	0
5/19/2024 15:24	54601	SUMM_T2	0	0	0	0	0	0	-1.59	-1.6	2	2	0	2100	2100	0
5/19/2024 15:26	67703	WERN_T2	1	1	0	0.5	0.2	-0.3	-0.67	-0.66	1	1	0	900	900	0
5/19/2024 15:27	53601	DALM_T2	1	5	4	1	0.47	-0.53	0.03	0.01	0	0	0	0	0	0
5/19/2024 15:29	60101	COCA_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/19/2024 15:29	60102	COCA_T1	0	0	0	0	0	0	-0.52	-0.38	2	2	0	1200	1200	0
5/19/2024 15:32	64305	LINC_T1	0	0	0	0	0	0	-0.34	-0.24	0	0	0	0	0	0
5/19/2024 15:38	29402	BELT_T1	1	1	0	9	7.2	-1.8	0	0	0	0	0	0	0	0
5/19/2024 15:40	56501	ROCK_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 15:40	56504	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/19/2024 15:44	64704	LITI_T1	0	0	0	0	0	0	0.19	0.08	1	1	0	600	600	0
5/19/2024 15:45	29402	BELT_T1	1	1	0	7.2	5.5	-1.7	0	0	0	0	0	0	0	0
5/19/2024 15:48	26704	HEMI_T2	74	31	-43	0.21	0.12	-0.09	-0.78	-0.74	1	1	0	1200	1200	0
5/19/2024 15:52	46504	LOHA_T1	2	2	0	0.3	0.65	0.35	0	0	0	0	0	0	0	0
5/19/2024 15:52	46506	LOHA_T1	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
5/19/2024 16:02	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 16:02	29402	BELT_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
5/19/2024 16:04	41903	REED_T1	0	0	0	0	0	0	-0.64	-0.6	2	2	0	2400	2400	0
5/19/2024 16:04	41902	REED_T1	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
5/19/2024 16:08	59101	WALK_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
5/19/2024 16:19	46504	LOHA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/19/2024 16:19	46506	LOHA_T1	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/19/2024 16:25	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 16:26	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 16:34	46503	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 16:34	46506	LOHA_T1	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
5/19/2024 16:34	46501	LOHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 16:37	67605	WARW_T1	0	0	0	0	0	0	-0.93	-0.9	0	0	0	0	0	0
5/19/2024 16:38	20403	ASHF_T2	0	0	0	0	0	0	0.72	0.84	0	0	0	0	0	0
5/19/2024 16:40	59101	WALK_T2	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
5/19/2024 16:44	63801	HEMP_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/19/2024 16:44	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	1.14	1.14	0	0	0	0	0	0
5/19/2024 16:44	29402	BELT_T1	1	1	0	5	6.6	1.6	0	0	0	0	0	0	0	0
5/19/2024 16:44	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 16:44	63803	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/19/2024 16:45	52403	GRPA_T2	3	4	1	0.5	0.6	0.1	0.25	-0.34	0	0	0	0	0	0
5/19/2024 16:46	64403	LAND_T1	0	0	0	0	0	0	-1.82	-1.82	1	1	0	900	900	0
5/19/2024 16:46	64401	LAND_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/19/2024 16:47	64403	LAND_T1	0	0	0	0	0	0	-1.82	-1.82	1	1	0	900	900	0
5/19/2024 16:47	64401	LAND_T1	1	0	-1	0.5	0	-0.5	-0.98	-1.02	1	1	0	600	600	0
5/19/2024 16:48	64401	LAND_T1	1	0	-1	0.5	0	-0.5	-0.98	-1.02	1	1	0	600	600	0
5/19/2024 16:57	41303	FISH_T1	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
5/19/2024 16:57	41301	FISH_T1	2	3	1	1.05	0.97	-0.08	-0.09	-0.1	0	0	0	0	0	0
5/19/2024 17:00	29402	BELT_T1	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
5/19/2024 17:00	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 17:01	41303	FISH_T1	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0	0
5/19/2024 17:01	52403	GRPA_T2	2	9	7	0.6	1.58	0.98	-0.34	-0.33	0	0	0	0	0	0
5/19/2024 17:01	41301	FISH_T1	3	3	0	0.9	1.07	0.17	-0.09	-0.1	0	0	0	0	0	0
5/19/2024 17:21	64101	REFR_T1	0	1	1	0	0	0	0.14	0.12	0	0	0	0	0	0
5/19/2024 17:53	13503	MCMI_T2	0	0	0	0	0	0	-0.91	-0.9	0	0	0	0	0	0
5/19/2024 18:05	52004	LING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 18:07	41902	REED_T1	4	4	0	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
5/19/2024 18:07	41903	REED_T1	0	0	0	0	0	0	-0.27	-0.29	1	1	0	1200	1200	0
5/19/2024 18:17	23403	HONE_T1	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
5/19/2024 18:25	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 18:26	56501	ROCK_T2	5	5	0	0.18	0.22	0.04	83.96	83.96	0	0	0	0	0	0
5/19/2024 18:27	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 18:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 18:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 18:30	52002	LING_T2	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
5/19/2024 18:30	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 18:48	64701	LITI_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
5/19/2024 18:51	13905	SEID_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
5/19/2024 18:56	46001	BERW_T1	0	0	0	0	0	0	1.48	1.5	0	0	0	0	0	0
5/19/2024 18:57	63306	GREE_T1	0	0	0	0	0	0	-1.82	-1.86	1	1	0	900	900	0
5/19/2024 18:58	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 18:58	29402	BELT_T1	1	0	0	6.6	6.9	0.3	0	0	0	0	0	0	0	0
5/19/2024 19:09	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 19:10	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/19/2024 19:13	61304	EARL_T1	0	0	0	0	0	0	-0.64	-0.68	1	1	0	600	600	0
5/19/2024 19:15	10102	ALLE_T2	1	1	0	7.7	7.4	-0.3	0	0	0	0	0	0	0	0
5/19/2024 19:15	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 19:17	61304	EARL_T1	0	0	0	0	0	0	-0.64	-0.68	1	1	0	600	600	0
5/19/2024 19:24	43103	SMIL_T2	0	0	0	0	0	0	-1.84	-1.87	0	0	0	0	0	0
5/19/2024 19:24	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 19:28	22003	BOHE_T1	25	19	-6	0.2	0.23	0.03	0	0	0	0	0	0	0	0
5/19/2024 19:28	22002	BOHE_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/19/2024 19:28	22001	BOHE_T1	0	1	1	0	0.1	0.1	0.27	0.29	0	0	0	0	0	0
5/19/2024 19:30	63305	GREE_T1	0	0	0	0	0	0	-2.21	-2.26	1	1	0	900	900	0
5/19/2024 19:40	43101	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/19/2024 19:40	43103	SMIL_T2	0	1	1	0	0.1	0.1	-1.87	-1.93	0	0	0	0	0	0
5/19/2024 19:43	16301	ALPA_T1	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
5/19/2024 19:47	20403	ASHF_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
5/19/2024 19:53	16301	ALPA_T1	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
5/19/2024 20:01	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 20:01	29402	BELT_T1	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
5/19/2024 20:09	46903	MNTG_T2	0	0	0	0	0	0	0.07	0.05	1	1	0	600	600	0
5/19/2024 20:12	44301	BEAV_T2	0	0	0	0	0	0	-0.96	-0.94	1	1	0	600	600	0
5/19/2024 20:13	44301	BEAV_T2	0	0	0	0	0	0	-0.96	-0.94	1	1	0	600	600	0
5/19/2024 20:15	44301	BEAV_T2	0	0	0	0	0	0	-1.92	-1.88	2	2	0	1200	1200	0
5/19/2024 20:16	44301	BEAV_T2	0	0	0	0	0	0	-0.96	-0.94	1	1	0	600	600	0
5/19/2024 20:18	46801	HEPB_T2	2	2	0	1.3	1.3	0	-0.04	-0.07	0	0	0	0	0	0
5/19/2024 20:19	46801	HEPB_T2	2	2	0	1.3	1.3	0	-0.04	-0.07	0	0	0	0	0	0
5/19/2024 20:20	46801	HEPB_T2	2	2	0	1.3	1.3	0	-0.04	-0.07	0	0	0	0	0	0
5/19/2024 20:20	25503	MADI_T1	4	48	44	0.18	0.2	0.02	-0.84	-0.82	0	0	0	0	0	0
5/19/2024 20:20	46803	HEPB_T2	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
5/19/2024 20:21	46801	HEPB_T2	2	2	0	1.3	1.3	0	-0.04	-0.07	0	0	0	0	0	0
5/19/2024 20:36	15702	TANN_T2	1	1	0	2.3	2.4	0.1	-0.31	-0.34	0	0	0	0	0	0
5/19/2024 20:36	15703	TANN_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
5/19/2024 20:37	15703	TANN_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
5/19/2024 20:37	15702	TANN_T2	1	1	0	2.3	2.4	0.1	-0.31	-0.34	0	0	0	0	0	0
5/19/2024 20:41	15703	TANN_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
5/19/2024 20:41	15702	TANN_T2	1	1	0	2.3	2.4	0.1	-0.34	-0.29	0	0	0	0	0	0
5/19/2024 20:49	55002	NEWP_T1	1	2	1	0.1	0.55	0.45	-0.13	-0.14	0	0	0	0	0	0
5/19/2024 20:53	57304	MOAL_T2	0	1	1	0	0.1	0.1	-0.44	-0.44	0	0	0	0	0	0
5/19/2024 20:53	57303	MOAL_T2	1	1	0	7.9	7.7	-0.2	0	0	0	0	0	0	0	0
5/19/2024 20:55	55002	NEWP_T1	1	2	1	0.1	0.55	0.45	-0.14	-0.17	0	0	0	0	0	0
5/19/2024 21:26	56501	ROCK_T2	141	2	-139	0.22	0.4	0.18	83.96	83.96	0	0	0	0	0	0
5/19/2024 21:26	66703	STRA_T1	0	0	0	0	0	0	-0.28	-0.36	0	0	0	0	0	0
5/19/2024 21:27	60801	BUCK_T1	0	0	0	0	0	0	-1.52	-1.58	2	2	0	1200	1200	0
5/19/2024 21:38	13302	ORVI_T2	0	1	1	0	0.1	0.1	1.31	1.29	0	0	0	0	0	0
5/19/2024 21:40	13302	ORVI_T2	0	1	1	0	0.1	0.1	1.29	1.36	0	0	0	0	0	0
5/19/2024 21:51	66701	STRA_T1	0	1	1	0	0	0	-0.18	-0.17	1	1	0	600	600	0
5/19/2024 22:01	22003	BOHE_T1	4	1	-3	0.38	1.2	0.82	0	0	0	0	0	0	0	0
5/19/2024 22:01	22001	BOHE_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
5/19/2024 22:05	52101	MEIS_T1	2	2	0	1.15	1.55	0.4	0	0	0	0	0	0	0	0
5/19/2024 22:05	52102	MEIS_T1	2	4	2	0.1	0.13	0.03	0	0	1	1	0	450	450	0
5/19/2024 22:08	52102	MEIS_T1	2	4	2	0.1	0.13	0.03	0	0	1	1	0	450	450	0
5/19/2024 22:08	52101	MEIS_T1	2	2	0	1.15	1.55	0.4	0	0	0	0	0	0	0	0
5/19/2024 22:09	11405	FARM_T1	1	1	0	6	5.3	-0.7	-0.69	-0.71	1	1	0	1200	1200	0
5/19/2024 22:11	26704	HEML_T2	0	0	0	0	0	0	-0.84	-0.85	1	1	0	1200	1200	0
5/19/2024 22:13	16302	ALPA_T2	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
5/19/2024 22:14	61303	EARL_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
5/19/2024 22:14	29402	BELT_T1	1	1	0	7.5	7.7	0.2	0	0	0	0	0	0	0	0
5/19/2024 22:14	29401	BELT_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
5/19/2024 22:15	65003	NEFF_T2	3	3	0	0.2	0.23	0.03	0	0	0	0	0	0	0	0
5/19/2024 22:15	62104	ELAN_T1	0	0	0	0	0	0	-0.31	-0.3	2	2	0	1500	1500	0
5/19/2024 22:15	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 22:15	45901	AUBU_T1	0	0	0	0	0	0	0.99	0.98	0	0	0	0	0	0
5/19/2024 22:15	29402	BELT_T1	1	1	0	7.3	8	0.7	0	0	0	0	0	0	0	0
5/19/2024 22:15	16302	ALPA_T2	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
5/19/2024 22:15	65201	PRIN_T4	0	1	1	0	0.1	0.1	0	0	1	1	0	600	600	0
5/19/2024 22:15	65207	PRIN_T4	3	18	15	0.1	0.12	0.02	0	0	0	0	0	0	0	0
5/19/2024 22:15	45902	AUBU_T1	9	3	-6	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
5/19/2024 22:15	51304	WIND_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
5/19/2024 22:15	65001	NEFF_T2	22	30	8	0.1	0.1	0	-1.07	-1.11	1	1	0	1200	1200	0
5/19/2024 22:16	16302	ALPA_T2	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
5/19/2024 22:16	45902	AUBU_T1	9	3	-6	0.14	0.1	-0.04	-0.66	-0.59	0	0	0	0	0	0
5/19/2024 22:16	17802	GILB_T1	0	0	0	0	0	0	-0.01	0.09	0	0	0	0	0	0
5/19/2024 22:16	29402	BELT_T1	1	1	0	7.3	8	0.7	0	0	0	0	0	0	0	0
5/19/2024 22:16	22001	BOHE_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
5/19/2024 22:16	63306	GREE_T1	0	0	0	0	0	0	-2.06	-2.1	1	1	0	900	900	0
5/19/2024 22:16	16102	BING_T2	0	0	0	0	0	0	0	-0.07	0	0	0	0	0	0
5/19/2024 22:16	63305	GREE_T1	3	6	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:16	20401	ASHF_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
5/19/2024 22:16	67605	WARW_T1	12	19	7	0.26	0.58	0.32	0	0	0	0	0	0	0	0
5/19/2024 22:16	60101	COCA_T1	0	0	0	0	0	0	0.36	0.31	0	0	0	0	0	0
5/19/2024 22:16	63301	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:16	22003	BOHE_T1	1	15	14	1	0.19	-0.81	0	0	0	0	0	0	0	0
5/19/2024 22:16	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 22:16	61304	EARL_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	600	600	0
5/19/2024 22:17	66203	SISP_T2	0	0	0	0	0	0	-1.39	-1.46	1	1	0	1200	1200	0
5/19/2024 22:17	64701	LITI_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
5/19/2024 22:17	63402	HONY_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
5/19/2024 22:17	17401	FOHI_T1	0	0	0	0	0	0	-1.93	-1.94	0	0	0	0	0	0
5/19/2024 22:17	16302	ALPA_T2	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
5/19/2024 22:17	45902	AUBU_T1	9	3	-6	0.14	0.1	-0.04	-0.66	-0.59	0	0	0	0	0	0
5/19/2024 22:17	67703	WERN_T2	0	0	0	0	0	0	-0.78	-0.8	1	1	0	900	900	0
5/19/2024 22:17	16402	MOPO_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
5/19/2024 22:17	60101	COCA_T1	0	0	0	0	0	0	0.36	0.31	0	0	0	0	0	0
5/19/2024 22:17	63403	HONY_T2	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
5/19/2024 22:17	12701	MACU_T1	0	0	0	0	0	0	-1.15	-1.16	1	1	0	1200	1200	0
5/19/2024 22:17	29402	BELT_T1	1	1	0	7.3	8	0.7	0	0	0	0	0	0	0	0
5/19/2024 22:18	65502	MOJO_T2	0	0	0	0	0	0	-0.78	-0.8	1	1	0	900	900	0
5/19/2024 22:18	41301	FISH_T1	1	2	1	0.2	1.15	0.95	-0.14	-0.15	0	0	0	0	0	0
5/19/2024 22:18	13905	SEID_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
5/19/2024 22:18	10801	CHHI_T1	0	0	0	0	0	0	-1.87	-1.92	3	2	-1	2100	1500	-600
5/19/2024 22:18	63305	GREE_T1	3	6	3	0.1	0.2	0.1	-2.31	-2.32	1	1	0	900	900	0
5/19/2024 22:18	62104	ELAN_T1	0	0	0	0	0	0	-0.31	-0.3	2	2	0	1500	1500	0
5/19/2024 22:18	63301	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:19	63305	GREE_T1	3	6	3	0.1	0.2	0.1	-2.31	-2.32	1	1	0	900	900	0
5/19/2024 22:19	66202	SISP_T2	0	0	0	0	0	0	-0.65	-0.62	0	0	0	0	0	0
5/19/2024 22:19	46504	LOHA_T1	42	34	-8	0.41	0.24	-0.17	0	0	0	0	0	0	0	0
5/19/2024 22:19	66504	SMAN_T2	0	0	0	0	0	0	-3.52	-0.84	2	0	-2	2400	0	-2400
5/19/2024 22:19	45902	AUBU_T1	9	3	-6	0.14	0.1	-0.04	-1.32	-1.19	0	0	0	0	0	0
5/19/2024 22:19	10102	ALLE_T2	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
5/19/2024 22:19	40502	CRES_T2	19	41	22	0.28	0.32	0.04	-1.05	-1.19	0	0	0	0	0	0
5/19/2024 22:19	63306	GREE_T1	0	0	0	0	0	0	-2.06	-2.1	1	1	0	900	900	0
5/19/2024 22:19	61102	BERK_T5	0	0	0	0	0	0	0.66	0.71	1	1	0	300	300	0
5/19/2024 22:19	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/19/2024 22:19	46506	LOHA_T1	0	0	0	0	0	0	-0.44	-0.36	0	0	0	0	0	0
5/19/2024 22:19	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 22:19	60101	COCA_T1	0	0	0	0	0	0	0.36	0.31	0	0	0	0	0	0
5/19/2024 22:19	67703	WERN_T2	0	0	0	0	0	0	-0.78	-0.8	1	1	0	900	900	0
5/19/2024 22:19	62106	ELAN_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/19/2024 22:19	61301	EARL_T1	0	0	0	0	0	0	-0.47	-0.48	1	1	0	900	900	0
5/19/2024 22:19	40501	CRES_T2	0	10	10	0	0.22	0.22	0	0	0	0	0	0	0	0
5/19/2024 22:19	63301	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:20	13704	SCHN_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
5/19/2024 22:20	40101	HUNT_T2	0	0	0	0	0	0	-0.58	-0.57	0	0	0	0	0	0
5/19/2024 22:20	13302	ORVI_T2	12	15	3	0.13	0.26	0.13	1.3	1.24	0	0	0	0	0	0
5/19/2024 22:20	65202	PRIN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:20	64101	REFR_T1	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
5/19/2024 22:20	67703	WERN_T2	0	0	0	0	0	0	-0.78	-0.8	1	1	0	900	900	0
5/19/2024 22:20	29402	BELT_T1	1	1	0	7.3	8	0.7	0	0	0	0	0	0	0	0
5/19/2024 22:20	15603	NSTR_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
5/19/2024 22:20	45902	AUBU_T1	9	3	-6	0.14	0.1	-0.04	-0.66	-0.59	0	0	0	0	0	0
5/19/2024 22:20	65205	PRIN_T1	1	2	1	2	2.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:20	13303	ORVI_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
5/19/2024 22:20	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 22:20	45901	AUBU_T1	0	0	0	0	0	0	0.99	0.98	0	0	0	0	0	0
5/19/2024 22:20	15601	NSTR_T2	3	3	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:20	61303	EARL_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
5/19/2024 22:21	59101	WALK_T2	33	62	29	0.15	0.7	0.55	-0.57	-0.61	0	0	0	0	0	0
5/19/2024 22:21	63305	GREE_T1	3	6	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:21	52102	MEIS_T1	3	3	0	0.13	0.1	-0.03	0	0	1	1	0	450	450	0
5/19/2024 22:21	62105	ELAN_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
5/19/2024 22:21	60101	COCA_T1	0	0	0	0	0	0	0.36	0.31	0	0	0	0	0	0
5/19/2024 22:21	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/19/2024 22:21	66504	SMAN_T2	0	0	0	0	0	0	-1.76	-0.42	1	0	-1	1200	0	-1200
5/19/2024 22:21	55002	NEWP_T1	4	6	2	0.8	1.02	0.22	-0.2	-0.21	0	0	0	0	0	0
5/19/2024 22:21	63301	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:21	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 22:21	45402	WBLO_T2	1	1	0	0.1	1.3	1.2	-1.65	-1.71	1	1	0	900	900	0
5/19/2024 22:21	67605	WARW_T1	12	19	7	0.26	0.58	0.32	-1.31	-1.17	0	0	0	0	0	0
5/19/2024 22:21	65503	MOJO_T2	0	0	0	0	0	0	-1.14	-1.18	1	1	0	900	900	0
5/19/2024 22:21	62101	ELAN_T1	0	0	0	0	0	0	2	1.94	0	0	0	0	0	0
5/19/2024 22:21	51301	WIND_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 22:21	52101	MEIS_T1	2	2	0	1.2	1.55	0.35	0	0	0	0	0	0	0	0
5/19/2024 22:21	17401	FOHI_T1	0	0	0	0	0	0	-1.93	-1.94	0	0	0	0	0	0
5/19/2024 22:21	22003	BOHE_T1	1	15	14	1	0.19	-0.81	0	0	0	0	0	0	0	0
5/19/2024 22:21	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 22:21	63304	GREE_T1	0	0	0	0	0	0	-1.67	-1.72	0	0	0	0	0	0
5/19/2024 22:21	40502	CRES_T2	19	41	22	0.28	0.32	0.04	-0.7	-0.8	0	0	0	0	0	0
5/19/2024 22:21	40302	TAMA_T3	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
5/19/2024 22:21	51305	WIND_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
5/19/2024 22:21	40501	CRES_T2	0	10	10	0	0.22	0.22	0	0	0	0	0	0	0	0
5/19/2024 22:22	60102	COCA_T1	0	0	0	0	0	0	-0.13	-0.37	2	2	0	1200	1200	0
5/19/2024 22:22	56801	BENV_T1	14	19	5	1.08	1.22	0.14	-1.08	-1.08	2	2	0	1200	1200	0
5/19/2024 22:22	53601	DALM_T2	1	1	0	1.2	1	-0.2	0.06	0.13	0	0	0	0	0	0
5/19/2024 22:22	63401	HONY_T1	0	0	0	0	0	0	0.7	0.51	0	0	0	0	0	0
5/19/2024 22:22	45902	AUBU_T1	9	3	-6	0.14	0.1	-0.04	-1.32	-1.19	0	0	0	0	0	0
5/19/2024 22:22	63404	HONY_T1	63	37	-26	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
5/19/2024 22:22	12701	MACU_T1	0	0	0	0	0	0	-1.15	-1.16	1	1	0	1200	1200	0
5/19/2024 22:22	58402	MORO_T1	0	0	0	0	0	0	-0.58	-0.6	2	2	0	1500	1500	0
5/19/2024 22:22	62104	ELAN_T1	0	0	0	0	0	0	-0.31	-0.3	2	2	0	1500	1500	0
5/19/2024 22:22	47802	MOCA_T2	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
5/19/2024 22:22	66202	SISP_T2	0	0	0	0	0	0	-0.65	-0.62	0	0	0	0	0	0
5/19/2024 22:22	52004	LING_T2	0	0	0	0	0	0	-0.04	-0.09	0	0	0	0	0	0
5/19/2024 22:22	10903	COOP_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:22	42601	TUSC_T1	0	0	0	0	0	0	-0.46	-0.46	2	2	0	1800	1800	0
5/19/2024 22:22	60501	NMAN_T2	3	3	0	4.67	4.47	-0.2	0	0	0	0	0	0	0	0
5/19/2024 22:22	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/19/2024 22:22	17401	FOHI_T1	0	0	0	0	0	0	-1.93	-1.94	0	0	0	0	0	0
5/19/2024 22:22	10801	CHHI_T1	0	0	0	0	0	0	-1.87	-1.92	3	2	-1	2100	1500	-600
5/19/2024 22:22	10901	COOP_T2	0	0	0	0	0	0	0.79	0.83	0	0	0	0	0	0
5/19/2024 22:22	63202	MGTN_T2	0	0	0	0	0	0	0.57	0.6	0	0	0	0	0	0
5/19/2024 22:22	60502	NMAN_T2	0	0	0	0	0	0	-0.4	-0.45	0	0	0	0	0	0
5/19/2024 22:23	63404	HONY_T1	63	37	-26	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
5/19/2024 22:23	54601	SUMM_T2	0	1	1	0	0.2	0.2	-1.76	-1.71	2	2	0	2100	2100	0
5/19/2024 22:23	62102	ELAN_T1	0	0	0	0	0	0	0.86	0.89	0	0	0	0	0	0
5/19/2024 22:23	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 22:23	53901	HALI_T2	1	1	0	0.7	0.9	0.2	-1.3	-1.33	0	0	0	0	0	0
5/19/2024 22:23	53902	HALI_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
5/19/2024 22:23	21206	ECAR_T2	1	1	0	8.4	8.3	-0.1	-0.03	-0.07	0	0	0	0	0	0
5/19/2024 22:23	53903	HALI_T2	2	2	0	1.25	1.7	0.45	0	0	0	0	0	0	0	0
5/19/2024 22:23	64401	LAND_T1	0	0	0	0	0	0	-1.09	-1.07	1	1	0	600	600	0
5/19/2024 22:23	29402	BELT_T1	1	1	0	7.3	8	0.7	0	0	0	0	0	0	0	0
5/19/2024 22:23	40501	CRES_T2	0	10	10	0	0.22	0.22	0	0	0	0	0	0	0	0
5/19/2024 22:23	40502	CRES_T2	19	41	22	0.28	0.32	0.04	-0.4	-0.44	0	0	0	0	0	0
5/19/2024 22:23	21204	ECAR_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:23	43301	WATS_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/19/2024 22:23	42903	MIDD_T2	2	2	0	0.5	0.7	0.2	-0.31	-0.31	0	0	0	0	0	0
5/19/2024 22:23	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 22:23	63401	HONY_T1	0	0	0	0	0	0	0.51	0.54	0	0	0	0	0	0
5/19/2024 22:23	67605	WARW_T1	12	19	7	0.26	0.58	0.32	-1.17	-1.18	0	0	0	0	0	0
5/19/2024 22:23	64403	LAND_T1	0	7	7	0	0.1	0.1	-1.75	-1.77	1	1	0	900	900	0
5/19/2024 22:23	26603	BROO_T1	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
5/19/2024 22:24	40501	CRES_T2	0	10	10	0	0.22	0.22	0	0	0	0	0	0	0	0
5/19/2024 22:24	60101	COCA_T1	0	0	0	0	0	0	0.31	0.27	0	0	0	0	0	0
5/19/2024 22:24	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/19/2024 22:24	59003	MIFF_T1	1	1	0	0.5	0.6	0.1	0.47	0.44	0	0	0	0	0	0
5/19/2024 22:24	23403	HONE_T1	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
5/19/2024 22:24	64403	LAND_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:24	53901	HALI_T2	1	1	0	0.7	0.9	0.2	-1.3	-1.33	0	0	0	0	0	0
5/19/2024 22:24	23401	HONE_T2	1	1	0	0.7	1	0.3	0.2	0.25	0	0	0	0	0	0
5/19/2024 22:24	40502	CRES_T2	19	41	22	0.28	0.32	0.04	-0.8	-0.88	0	0	0	0	0	0
5/19/2024 22:24	59002	MIFF_T1	6	6	0	0.65	0.87	0.22	0	0	0	0	0	0	0	0
5/19/2024 22:24	41903	REED_T1	0	0	0	0	0	0	-0.49	-0.5	1	1	0	1200	1200	0
5/19/2024 22:24	59001	MIFF_T1	1	10	9	0.1	0.14	0.04	0	0	0	0	0	0	0	0
5/19/2024 22:24	63404	HONY_T1	63	37	-26	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
5/19/2024 22:24	53902	HALI_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
5/19/2024 22:24	64401	LAND_T1	0	0	0	0	0	0	-1.09	-1.07	1	1	0	600	600	0
5/19/2024 22:24	63401	HONY_T1	0	0	0	0	0	0	1.02	1.08	0	0	0	0	0	0
5/19/2024 22:24	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
5/19/2024 22:24	44301	BEAV_T2	0	0	0	0	0	0	-0.95	-1.01	1	1	0	600	600	0
5/19/2024 22:24	58102	NEKI_T1	1	1	0	0.8	1	0.2	-0.86	-0.88	0	0	0	0	0	0
5/19/2024 22:24	53903	HALI_T2	2	2	0	1.25	1.7	0.45	0	0	0	0	0	0	0	0
5/19/2024 22:24	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
5/19/2024 22:25	17804	GILB_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
5/19/2024 22:25	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
5/19/2024 22:25	59301	MCAL_T1	4	4	0	0.45	0.65	0.2	0	0	0	0	0	0	0	0
5/19/2024 22:25	63305	GREE_T1	3	6	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:25	59302	MCAL_T1	1	1	0	0.4	0.6	0.2	-0.38	-0.43	1	1	0	600	600	0
5/19/2024 22:25	17803	GILB_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
5/19/2024 22:25	63301	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:25	43201	MVIL_T2	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
5/19/2024 22:25	67901	WNHO_T2	33	82	49	0.21	0.27	0.06	-0.44	-0.46	0	0	0	0	0	0
5/19/2024 22:25	44502	HAMI_T2	1	1	0	3	3.4	0.4	0	0	0	0	0	0	0	0
5/19/2024 22:25	40502	CRES_T2	19	41	22	0.28	0.32	0.04	-1.99	-2.19	0	0	0	0	0	0
5/19/2024 22:25	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
5/19/2024 22:25	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 22:25	59202	THOM_T1	1	11	10	0.1	0.14	0.04	0	0	0	0	0	0	0	0
5/19/2024 22:25	56501	ROCK_T2	2	2	0	0.15	0.55	0.4	83.96	83.96	0	0	0	0	0	0
5/19/2024 22:25	10801	CHHI_T1	0	0	0	0	0	0	-1.92	-1.31	2	2	0	1500	1500	0
5/19/2024 22:25	43202	MVIL_T2	37	50	13	0.18	0.24	0.06	0	0	0	0	0	0	0	0
5/19/2024 22:25	14203	EALL_T1	0	0	0	0	0	0	-0.32	-0.35	1	1	0	1200	1200	0
5/19/2024 22:25	63304	GREE_T1	0	0	0	0	0	0	-1.72	-1.74	0	0	0	0	0	0
5/19/2024 22:25	66504	SMAN_T2	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
5/19/2024 22:25	59201	THOM_T1	1	8	7	0.1	0.14	0.04	0	0	0	0	0	0	0	0
5/19/2024 22:25	44505	HAMI_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
5/19/2024 22:25	40501	CRES_T2	0	10	10	0	0.22	0.22	0	0	0	0	0	0	0	0
5/19/2024 22:25	67605	WARW_T1	12	19	7	0.26	0.58	0.32	-2.33	-2.35	0	0	0	0	0	0
5/19/2024 22:25	20403	ASHF_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
5/19/2024 22:25	59101	WALK_T2	33	62	29	0.15	0.7	0.55	-0.61	-0.59	0	0	0	0	0	0
5/19/2024 22:26	66502	SMAN_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
5/19/2024 22:26	43301	WATS_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/19/2024 22:26	43202	MVIL_T2	37	50	13	0.18	0.24	0.06	-0.71	-0.71	0	0	0	0	0	0
5/19/2024 22:26	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:26	58001	WCAR_T1	4	4	0	0.98	1.15	0.17	0	0	0	0	0	0	0	0
5/19/2024 22:26	29401	BELT_T1	1	1	0	7.3	8	0.7	0	0	0	0	0	0	0	0
5/19/2024 22:26	12002	HATF_T1	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
5/19/2024 22:26	12701	MACU_T1	0	0	0	0	0	0	-1.16	-1.19	1	1	0	1200	1200	0
5/19/2024 22:26	46506	LOHA_T1	0	0	0	0	0	0	-0.72	-0.76	0	0	0	0	0	0
5/19/2024 22:26	61303	EARL_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
5/19/2024 22:26	67703	WERN_T2	0	0	0	0	0	0	-0.8	-0.84	1	1	0	900	900	0
5/19/2024 22:26	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 22:26	44502	HAMI_T2	1	1	0	3	3.4	0.4	-0.81	-0.86	0	0	0	0	0	0
5/19/2024 22:26	46504	LOHA_T1	42	34	-8	0.41	0.24	-0.17	0	0	0	0	0	0	0	0
5/19/2024 22:26	52403	GRPA_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
5/19/2024 22:26	46001	BERW_T1	0	0	0	0	0	0	1.1	1.06	0	0	0	0	0	0
5/19/2024 22:26	55002	NEWP_T1	4	6	2	0.8	1.02	0.22	-0.21	-0.25	0	0	0	0	0	0
5/19/2024 22:26	20601	GRWO_T2	0	3	3	0	0.1	0.1	-0.39	-0.41	0	0	0	0	0	0
5/19/2024 22:26	61302	EARL_T1	0	0	0	0	0	0	-0.39	-0.34	2	2	0	1800	1800	0
5/19/2024 22:26	63301	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:26	54601	SUMM_T2	0	1	1	0	0.2	0.2	-3.52	-3.41	4	4	0	4200	4200	0
5/19/2024 22:26	12005	HATF_T1	4	4	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
5/19/2024 22:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/19/2024 22:26	41301	FISH_T1	1	2	1	0.2	1.15	0.95	-0.15	-0.14	0	0	0	0	0	0
5/19/2024 22:26	40702	FFLD_T1	0	6	6	0	0.1	0.1	-1.19	-1.13	1	1	0	1200	1200	0
5/19/2024 22:26	52401	GRPA_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
5/19/2024 22:26	52402	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/19/2024 22:26	58003	WCAR_T1	1	1	0	2	2.2	0.2	0	1.22	2	0	-2	1200	0	-1200
5/19/2024 22:26	20603	GRWO_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
5/19/2024 22:26	22602	KIMB_T1	0	0	0	0	0	0	0.32	0.35	0	0	0	0	0	0
5/19/2024 22:26	16301	ALPA_T1	2	8	6	0.4	0.19	-0.21	-0.25	-0.24	0	0	0	0	0	0
5/19/2024 22:26	63302	GREE_T1	0	0	0	0	0	0	0.24	0.15	0	0	0	0	0	0
5/19/2024 22:26	63305	GREE_T1	3	6	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/19/2024 22:26	44505	HAMI_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
5/19/2024 22:27	59101	WALK_T2	33	62	29	0.15	0.7	0.55	-0.61	-0.59	0	0	0	0	0	0
5/19/2024 22:27	65502	MOJO_T2	0	0	0	0	0	0	-0.8	-0.8	1	1	0	900	900	0
5/19/2024 22:27	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
5/19/2024 22:27	54601	SUMM_T2	0	1	1	0	0.2	0.2	-1.76	-1.71	2	2	0	2100	2100	0
5/19/2024 22:27	56501	ROCK_T2	2	2	0	0.15	0.55	0.4	83.96	83.96	0	0	0	0	0	0
5/19/2024 22:27	65503	MOJO_T2	0	0	0	0	0	0	-1.18	-1.24	1	1	0	900	900	0
5/19/2024 22:27	58001	WCAR_T1	4	4	0	0.98	1.15	0.17	0	0	0	0	0	0	0	0
5/19/2024 22:27	10801	CHHI_T1	0	0	0	0	0	0	-1.92	-1.31	2	2	0	1500	1500	0
5/19/2024 22:27	67605	WARW_T1	12	19	7	0.26	0.58	0.32	-2.33	-2.35	0	0	0	0	0	0
5/19/2024 22:27	56801	BENV_T1	14	19	5	1.08	1.22	0.14	0	0	0	0	0	0	0	0
5/19/2024 22:27	61102	BERK_T5	0	0	0	0	0	0	0.71	0.64	1	1	0	300	300	0
5/19/2024 22:27	56802	BENV_T2	0	1	1	0	0.2	0.2	-1.48	-1.53	0	0	0	0	0	0
5/19/2024 22:27	58003	WCAR_T1	1	1	0	2	2.2	0.2	0	0.61	1	0	-1	600	0	-600
5/19/2024 22:27	12701	MACU_T1	0	0	0	0	0	0	-1.16	-1.19	1	1	0	1200	1200	0
5/19/2024 22:27	52401	GRPA_T2	1	1	0	0.5	0.9	0.4	-0.58	-0.6	0	0	0	0	0	0
5/19/2024 22:27	26603	BROO_T1	0	0	0	0	0	0	0.56	0.51	0	0	0	0	0	0
5/19/2024 22:27	52402	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/19/2024 22:27	56803	BENV_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
5/19/2024 22:27	64403	LAND_T1	0	7	7	0	0.1	0.1	-1.75	-1.77	1	1	0	900	900	0
5/19/2024 22:28	61303	EARL_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
5/19/2024 22:28	63803	HEMP_T1	6	22	16	0.1	0.11	0.01	0	0	0	0	0	0	0	0
5/19/2024 22:28	43301	WATS_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/19/2024 22:28	66503	SMAN_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
5/19/2024 22:28	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
5/19/2024 22:28	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 22:28	56501	ROCK_T2	2	2	0	0.15	0.55	0.4	83.96	83.96	0	0	0	0	0	0
5/19/2024 22:28	21203	ECAR_T1	2	6	4	0.1	0.23	0.13	0.48	0.49	0	0	0	0	0	0
5/19/2024 22:28	63804	HEMP_T1	5	5	0	1.16	1.18	0.02	0	0	0	0	0	0	0	0
5/19/2024 22:28	10801	CHHI_T1	0	0	0	0	0	0	-1.92	-1.31	2	2	0	1500	1500	0
5/19/2024 22:28	63801	HEMP_T1	3	14	11	0.13	0.13	0	-0.26	-0.28	0	0	0	0	0	0
5/19/2024 22:29	13302	ORVI_T2	12	15	3	0.13	0.26	0.13	1.24	1.31	0	0	0	0	0	0
5/19/2024 22:29	49803	UNIV_T1	0	0	0	0	0	0	-1.13	-1.15	0	0	0	0	0	0
5/19/2024 22:29	49804	UNIV_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/19/2024 22:29	46004	BERW_T2	0	0	0	0	0	0	-0.51	-0.56	0	0	0	0	0	0
5/19/2024 22:29	27603	PIRI_T2	0	1	1	0	0	0	-1.25	-1.43	2	2	0	1800	1800	0
5/19/2024 22:29	40101	HUNT_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
5/19/2024 22:29	43301	WATS_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/19/2024 22:29	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 22:30	63803	HEMP_T1	21	50	29	0.11	0.15	0.04	0	0	0	0	0	0	0	0
5/19/2024 22:30	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
5/19/2024 22:30	63804	HEMP_T1	5	5	0	1.18	1.22	0.04	0.92	0.89	0	0	0	0	0	0
5/19/2024 22:30	63801	HEMP_T1	12	39	27	0.13	0.13	0	0	0	0	0	0	0	0	0
5/19/2024 22:30	52101	MEIS_T1	2	2	0	1.55	1.15	-0.4	0	0	0	0	0	0	0	0
5/19/2024 22:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 22:30	52102	MEIS_T1	3	0	-3	0.1	0	-0.1	0	0	1	1	0	450	450	0
5/19/2024 22:30	58402	MORO_T1	0	0	0	0	0	0	-0.6	-0.5	2	2	0	1500	1500	0
5/19/2024 22:30	52002	LING_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
5/19/2024 22:30	43202	MVIL_T2	46	59	13	0.25	0.38	0.13	-0.71	-0.71	0	0	0	0	0	0
5/19/2024 22:30	46506	LOHA_T1	0	1	1	0	0.2	0.2	-0.72	-0.76	0	0	0	0	0	0
5/19/2024 22:30	20401	ASHF_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
5/19/2024 22:30	20403	ASHF_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
5/19/2024 22:30	46504	LOHA_T2	33	48	15	0.25	0.42	0.17	0	0	0	0	0	0	0	0
5/19/2024 22:31	56501	ROCK_T2	2	2	0	0.2	0.7	0.5	83.96	83.96	0	0	0	0	0	0
5/19/2024 22:31	53901	HALI_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
5/19/2024 22:31	53902	HALI_T2	1	1	0	5.9	6.2	0.3	-0.88	-0.86	0	0	0	0	0	0
5/19/2024 22:31	40101	HUNT_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
5/19/2024 22:31	52402	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
5/19/2024 22:31	52403	GRPA_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
5/19/2024 22:31	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 22:31	43301	WATS_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/19/2024 22:31	58003	WCAR_T1	1	1	0	2.2	1.6	-0.6	0	0.61	1	0	-1	600	0	-600
5/19/2024 22:31	58001	WCAR_T1	4	4	0	1.15	0.93	-0.22	0	0	0	0	0	0	0	0
5/19/2024 22:31	53903	HALI_T2	2	2	0	1.7	1.7	0	0	0	0	0	0	0	0	0
5/19/2024 22:31	58402	MORO_T1	0	0	0	0	0	0	-0.6	-0.5	2	2	0	1500	1500	0
5/19/2024 22:31	59101	WALK_T2	58	66	8	0.58	0.8	0.22	-0.61	-0.59	0	0	0	0	0	0
5/19/2024 22:31	58401	MORO_T1	0	0	0	0	0	0	-1.06	-1.1	1	1	0	600	600	0
5/19/2024 22:31	41902	REED_T1	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
5/19/2024 22:31	52401	GRPA_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:32	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
5/19/2024 22:32	43202	MVIL_T2	46	59	13	0.25	0.38	0.13	-0.71	-0.71	0	0	0	0	0	0
5/19/2024 22:32	46504	LOHA_T1	33	48	15	0.25	0.42	0.17	0	0	0	0	0	0	0	0
5/19/2024 22:32	58401	MORO_T1	0	0	0	0	0	0	-2.12	-2.2	2	2	0	1200	1200	0
5/19/2024 22:32	46506	LOHA_T1	0	1	1	0	0.2	0.2	-0.36	-0.38	0	0	0	0	0	0
5/19/2024 22:33	52402	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
5/19/2024 22:33	52403	GRPA_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
5/19/2024 22:33	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:33	43102	SMIL_T2	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:33	44301	BEAV_T2	0	0	0	0	0	0	-0.95	-1.01	1	1	0	600	600	0
5/19/2024 22:33	56501	ROCK_T2	2	2	0	0.2	0.7	0.5	83.96	83.96	0	0	0	0	0	0
5/19/2024 22:33	43103	SMIL_T2	16	18	2	0.54	0.61	0.07	-2.12	-2.11	0	0	0	0	0	0
5/19/2024 22:33	52401	GRPA_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/19/2024 22:34	58003	WCAR_T1	1	1	0	2.2	1.6	-0.6	0	0.61	1	0	-1	600	0	-600
5/19/2024 22:34	41902	REED_T1	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
5/19/2024 22:34	58001	WCAR_T1	4	4	0	1.15	0.93	-0.22	0	0	0	0	0	0	0	0
5/19/2024 22:34	58401	MORO_T1	0	0	0	0	0	0	-1.06	-1.1	1	1	0	600	600	0
5/19/2024 22:34	52101	MEIS_T1	2	2	0	1.55	1.15	-0.4	0	0	0	0	0	0	0	0
5/19/2024 22:34	52102	MEIS_T1	3	0	-3	0.1	0	-0.1	0	0	1	1	0	450	450	0
5/19/2024 22:35	56501	ROCK_T2	2	2	0	0.2	0.7	0.5	83.96	83.96	0	0	0	0	0	0
5/19/2024 22:38	61102	BERK_T5	0	0	0	0	0	0	0.64	0.63	1	1	0	300	300	0
5/19/2024 22:39	61102	BERK_T5	0	0	0	0	0	0	0.64	0.63	1	1	0	300	300	0
5/19/2024 22:39	29402	BELT_T1	1	1	0	7.7	8.1	0.4	0	0	0	0	0	0	0	0
5/19/2024 23:07	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/19/2024 23:07	62105	ELAN_T1	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
5/19/2024 23:07	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/19/2024 23:41	67603	WARW_T1	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
5/19/2024 23:41	67605	WARW_T1	24	13	-11	0.5	0.68	0.18	0	0	0	0	0	0	0	0
5/20/2024 2:52	65901	SAKR_T2	1	1	0	9.1	9.2	0.1	-1.36	-1.45	1	1	0	900	900	0
5/20/2024 6:10	29402	BELT_T1	1	1	0	7.8	8.5	0.7	0	0	0	0	0	0	0	0
5/20/2024 6:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/20/2024 6:38	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/20/2024 6:38	29402	BELT_T1	1	1	0	8.5	8.3	-0.2	0	0	0	0	0	0	0	0
5/20/2024 6:54	20403	ASHF_T2	0	0	0	0	0	0	0.47	0.52	0	0	0	0	0	0
5/20/2024 6:54	20401	ASHF_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
5/20/2024 6:57	53901	HALI_T2	1	1	0	0.9	0.8	-0.1	-1.46	-1.43	0	0	0	0	0	0
5/20/2024 6:57	53902	HALI_T2	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
5/20/2024 6:57	53903	HALI_T2	2	2	0	0.65	1.2	0.55	0	0	0	0	0	0	0	0
5/20/2024 7:03	43202	MVIL_T2	54	92	38	0.27	0.61	0.34	-0.62	-0.6	0	0	0	0	0	0
5/20/2024 7:08	14601	SWHI_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
5/20/2024 7:08	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/20/2024 7:11	67503	WEWI_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
5/20/2024 7:12	14204	EALL_T2	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
5/20/2024 7:21	67703	WERN_T2	0	0	0	0	0	0	-0.93	-0.19	1	1	0	900	900	0
5/20/2024 7:22	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.16	0	0	0	0	0	0
5/20/2024 7:22	67703	WERN_T2	0	0	0	0	0	0	-0.93	-0.19	1	1	0	900	900	0
5/20/2024 7:23	67703	WERN_T2	0	0	0	0	0	0	-0.37	-0.41	2	2	0	1800	1800	0
5/20/2024 7:25	22002	BOHE_T1	0	0	0	0	0	0	0.23	0.3	0	0	0	0	0	0
5/20/2024 7:25	22003	BOHE_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/20/2024 7:26	62605	ENGL_T1	0	0	0	0	0	0	-0.82	-0.82	0	0	0	0	0	0
5/20/2024 7:27	62607	ENGL_T1	0	0	0	0	0	0	-1.16	-1.17	1	1	0	300	300	0
5/20/2024 7:28	62605	ENGL_T1	0	0	0	0	0	0	-0.82	-0.82	0	0	0	0	0	0
5/20/2024 7:30	64701	LITI_T1	0	0	0	0	0	0	0.31	0.38	0	0	0	0	0	0
5/20/2024 7:32	65702	RVIL_T2	0	0	0	0	0	0	-1.02	-0.99	1	1	0	600	600	0
5/20/2024 7:35	43202	MVIL_T2	86	80	-6	0.55	0.57	0.02	-0.61	-0.59	0	0	0	0	0	0
5/20/2024 7:36	56501	ROCK_T2	2	2	0	0.35	0.7	0.35	83.96	83.96	0	0	0	0	0	0
5/20/2024 7:37	20403	ASHF_T2	0	0	0	0	0	0	0.59	0.63	0	0	0	0	0	0
5/20/2024 7:37	20401	ASHF_T2	2	3	1	0.2	0.57	0.37	0	0	0	0	0	0	0	0
5/20/2024 7:39	67703	WERN_T2	0	0	0	0	0	0	-0.21	-0.21	1	1	0	900	900	0
5/20/2024 7:40	67703	WERN_T2	0	0	0	0	0	0	-0.21	-0.21	1	1	0	900	900	0
5/20/2024 7:41	20403	ASHF_T2	0	0	0	0	0	0	0.63	0.59	0	0	0	0	0	0
5/20/2024 7:41	62605	ENGL_T1	0	0	0	0	0	0	-1.64	-1.56	0	0	0	0	0	0
5/20/2024 7:41	20401	ASHF_T2	2	3	1	0.2	0.57	0.37	0	0	0	0	0	0	0	0
5/20/2024 7:41	67703	WERN_T2	0	0	0	0	0	0	-0.21	-0.21	1	1	0	900	900	0
5/20/2024 7:41	22002	BOHE_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
5/20/2024 7:41	22003	BOHE_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/20/2024 7:42	62605	ENGL_T1	0	0	0	0	0	0	-0.82	-0.78	0	0	0	0	0	0
5/20/2024 7:47	42002	MNVL_T2	1	1	0	3.3	3	-0.3	0	0	0	0	0	0	0	0
5/20/2024 7:47	42001	MNVL_T2	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
5/20/2024 7:49	42002	MNVL_T2	1	1	0	3.3	3	-0.3	0	0	0	0	0	0	0	0
5/20/2024 7:49	42001	MNVL_T2	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
5/20/2024 7:50	13303	ORVI_T1	0	0	0	0	0	0	-0.53	-0.43	0	0	0	0	0	0
5/20/2024 7:51	13303	ORVI_T1	0	0	0	0	0	0	-0.53	-0.43	0	0	0	0	0	0
5/20/2024 7:52	16301	ALPA_T1	1	2	1	0.4	0.2	-0.2	-0.43	-0.39	0	0	0	0	0	0
5/20/2024 7:52	65603	QVIL_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
5/20/2024 7:53	15702	TANN_T2	0	1	1	0	0	0	-0.88	-1	0	0	0	0	0	0
5/20/2024 7:53	15703	TANN_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
5/20/2024 7:53	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/20/2024 7:54	56801	BENV_T1	14	14	0	0.34	1.05	0.71	0	0	0	0	0	0	0	0
5/20/2024 7:54	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/20/2024 7:54	26603	BROO_T1	0	0	0	0	0	0	0.51	0.43	0	0	0	0	0	0
5/20/2024 7:54	56803	BENV_T1	0	0	0	0	0	0	-0.13	-0.11	1	1	0	600	600	0
5/20/2024 7:55	45501	DERR_T2	0	0	0	0	0	0	0.94	0.96	4	4	0	3600	3600	0
5/20/2024 7:55	26603	BROO_T1	0	0	0	0	0	0	0.51	0.43	0	0	0	0	0	0
5/20/2024 7:55	56802	BENV_T2	1	3	2	0.9	0.6	-0.3	-1.41	-1.4	0	0	0	0	0	0
5/20/2024 7:57	23203	HIRU_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/20/2024 7:57	23201	HIRU_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
5/20/2024 7:57	62105	ELAN_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
5/20/2024 7:58	21203	ECAR_T1	0	0	0	0	0	0	0.7	0.71	0	0	0	0	0	0
5/20/2024 7:58	64701	LITI_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
5/20/2024 8:02	50103	HARR_T3	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
5/20/2024 8:02	50105	HARR_T3	6	6	0	5.63	5.32	-0.31	0	0	0	0	0	0	0	0
5/20/2024 8:02	50107	HARR_T3	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
5/20/2024 8:02	50201	HARR_T3	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/20/2024 8:03	66504	SMAN_T2	0	0	0	0	0	0	-0.44	-0.35	0	0	0	0	0	0
5/20/2024 8:04	17002	RIRO_T2	2	179	177	0.3	0.2	-0.1	0.64	0.65	0	0	0	0	0	0
5/20/2024 8:04	13704	SCHN_T2	0	0	0	0	0	0	-0.3	-0.27	0	0	0	0	0	0
5/20/2024 8:08	66504	SMAN_T2	0	0	0	0	0	0	-0.7	-0.62	0	0	0	0	0	0
5/20/2024 8:09	55102	WERT_T2	0	0	0	0	0	0	-0.85	-0.91	2	2	0	1200	1200	0
5/20/2024 8:10	45501	DERR_T2	0	0	0	0	0	0	0.48	0.53	2	2	0	1800	1800	0
5/20/2024 8:11	45501	DERR_T2	0	0	0	0	0	0	0.48	0.53	2	2	0	1800	1800	0
5/20/2024 8:16	64702	LITI_T2	0	0	0	0	0	0	-1.79	-1.59	0	0	0	0	0	0
5/20/2024 8:16	58102	NEKI_T1	1	2	1	1.7	0.95	-0.75	-0.94	-0.9	0	0	0	0	0	0
5/20/2024 8:19	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.26	0	0	0	0	0	0
5/20/2024 8:20	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.26	0	0	0	0	0	0
5/20/2024 8:22	29401	BELT_T1	47	39	-8	0.18	0.17	-0.01	0	0	1	1	0	900	900	0
5/20/2024 8:22	15204	SFAR_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
5/20/2024 8:22	29402	BELT_T1	1	1	0	8.5	8.5	0	0	0	0	0	0	0	0	0
5/20/2024 8:23	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 8:23	58001	WCAR_T1	4	4	0	1.18	1.35	0.17	0	0	0	0	0	0	0	0
5/20/2024 8:23	58003	WCAR_T1	1	2	1	1.7	0.95	-0.75	0.14	0.14	1	1	0	600	600	0
5/20/2024 8:23	40502	CRES_T2	1	2	1	0.1	0.1	0	-0.01	0.02	0	0	0	0	0	0
5/20/2024 8:23	55102	WERT_T2	0	0	0	0	0	0	-0.91	-0.96	2	2	0	1200	1200	0
5/20/2024 8:24	29401	BELT_T1	47	39	-8	0.18	0.17	-0.01	0	0	1	1	0	900	900	0
5/20/2024 8:24	29402	BELT_T1	1	1	0	8.5	8.5	0	0	0	0	0	0	0	0	0
5/20/2024 8:25	29401	BELT_T1	47	39	-8	0.18	0.17	-0.01	0	0	1	1	0	900	900	0
5/20/2024 8:25	59101	WALK_T2	0	0	0	0	0	0	0.43	0.26	0	0	0	0	0	0
5/20/2024 8:25	29402	BELT_T1	1	1	0	8.5	8.5	0	0	0	0	0	0	0	0	0
5/20/2024 8:25	40502	CRES_T2	1	2	1	0.1	0.1	0	-0.02	0.04	0	0	0	0	0	0
5/20/2024 8:25	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 8:26	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 8:26	40502	CRES_T2	1	2	1	0.1	0.1	0	-0.02	0.04	0	0	0	0	0	0
5/20/2024 8:27	40502	CRES_T2	1	2	1	0.1	0.1	0	-0.03	0.06	0	0	0	0	0	0
5/20/2024 8:27	29402	BELT_T1	1	1	0	8.5	8.5	0	0	0	0	0	0	0	0	0
5/20/2024 8:27	29401	BELT_T1	47	39	-8	0.18	0.17	-0.01	0	0	1	1	0	900	900	0
5/20/2024 8:27	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 8:28	40101	HUNT_T2	0	0	0	0	0	0	-0.57	-0.54	0	0	0	0	0	0
5/20/2024 8:28	52402	GRPA_T2	2	0	-2	0.1	0	-0.1	-0.99	-0.98	0	0	0	0	0	0
5/20/2024 8:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 8:28	40502	CRES_T2	1	2	1	0.1	0.1	0	-0.02	0.04	0	0	0	0	0	0
5/20/2024 8:29	40502	CRES_T2	1	2	1	0.1	0.1	0	-0.02	0.04	0	0	0	0	0	0
5/20/2024 8:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 8:34	65503	MOJO_T2	0	0	0	0	0	0	-0.87	-0.82	1	1	0	900	900	0
5/20/2024 8:37	62601	ENGL_T1	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
5/20/2024 8:37	62604	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 8:38	45602	WOOL_T1	2	3	1	0.75	0.67	-0.08	0.48	0.48	0	0	0	0	0	0
5/20/2024 8:39	29401	BELT_T1	33	43	10	0.17	0.18	0.01	0	0	1	1	0	900	900	0
5/20/2024 8:39	29402	BELT_T1	1	1	0	8.5	8.8	0.3	0	0	0	0	0	0	0	0
5/20/2024 8:42	50103	HARR_T3	2	2	0	1	0.9	-0.1	-0.63	-0.63	1	1	0	1200	1200	0
5/20/2024 8:42	45602	WOOL_T1	2	3	1	0.75	0.67	-0.08	0.48	0.53	0	0	0	0	0	0
5/20/2024 8:42	50105	HARR_T3	6	6	0	5.43	5.58	0.15	0	0	0	0	0	0	0	0
5/20/2024 8:42	67703	WERN_T2	0	0	0	0	0	0	-0.17	-0.09	1	1	0	900	900	0
5/20/2024 8:42	50201	HARR_T3	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/20/2024 8:44	50103	HARR_T3	2	2	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
5/20/2024 8:44	50201	HARR_T3	1	1	0	0.8	0.8	0	-0.79	-0.75	1	1	0	1200	1200	0
5/20/2024 8:44	50105	HARR_T3	6	6	0	5.43	5.58	0.15	0	0	0	0	0	0	0	0
5/20/2024 8:45	50105	HARR_T3	6	6	0	5.58	6.18	0.6	0	0	0	0	0	0	0	0
5/20/2024 8:45	50103	HARR_T3	2	2	0	0.9	0.35	-0.55	0	0	0	0	0	0	0	0
5/20/2024 8:45	50201	HARR_T3	1	1	0	0.8	0.3	-0.5	-0.79	-0.75	1	1	0	1200	1200	0
5/20/2024 8:46	59002	MIFF_T1	5	5	0	0.5	0.38	-0.12	0	0	0	0	0	0	0	0
5/20/2024 8:46	64904	MILL_T1	0	0	0	0	0	0	0.57	0.52	0	0	0	0	0	0
5/20/2024 8:46	59003	MIFF_T1	1	1	0	0.6	0.2	-0.4	-0.99	-0.08	0	0	0	0	0	0
5/20/2024 8:46	59001	MIFF_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/20/2024 8:50	62602	ENGL_T1	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
5/20/2024 8:50	13302	ORVI_T2	0	1	1	0	0.4	0.4	2.17	2.3	0	0	0	0	0	0
5/20/2024 8:50	64902	MILL_T2	0	0	0	0	0	0	-1.24	-1.38	2	2	0	1800	1800	0
5/20/2024 8:50	65702	RVIL_T2	0	0	0	0	0	0	-1.97	-1.81	2	2	0	1200	1200	0
5/20/2024 8:51	65702	RVIL_T2	0	0	0	0	0	0	-0.99	-0.9	1	1	0	600	600	0
5/20/2024 8:52	62607	ENGL_T1	0	0	0	0	0	0	-1.14	-1.1	1	1	0	300	300	0
5/20/2024 8:52	65702	RVIL_T2	0	0	0	0	0	0	-0.99	-0.9	1	1	0	600	600	0
5/20/2024 8:52	13302	ORVI_T2	0	1	1	0	0.4	0.4	2.17	2.3	0	0	0	0	0	0
5/20/2024 8:53	62605	ENGL_T1	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
5/20/2024 8:53	65702	RVIL_T2	0	0	0	0	0	0	-0.9	-0.88	1	1	0	600	600	0
5/20/2024 8:54	58006	WCAR_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
5/20/2024 8:57	67703	WERN_T2	0	0	0	0	0	0	-0.09	-0.09	1	1	0	900	900	0
5/20/2024 9:01	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
5/20/2024 9:01	43202	MVIL_T2	110	118	8	1.45	1.39	-0.06	-0.53	-0.51	0	0	0	0	0	0
5/20/2024 9:01	43201	MVIL_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/20/2024 9:02	12502	MITR_T2	1	1	0	6.9	6.6	-0.3	0	0	0	0	0	0	0	0
5/20/2024 9:02	64801	MONE_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
5/20/2024 9:02	43202	MVIL_T2	110	118	8	1.45	1.39	-0.06	-0.53	-0.51	0	0	0	0	0	0
5/20/2024 9:02	43201	MVIL_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/20/2024 9:02	12505	MITR_T2	0	1	1	0	0	0	1.45	1.73	0	0	0	0	0	0
5/20/2024 9:02	64802	MONE_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
5/20/2024 9:03	12505	MITR_T2	0	1	1	0	0	0	1.45	1.73	0	0	0	0	0	0
5/20/2024 9:03	12502	MITR_T2	1	1	0	6.9	6.6	-0.3	0	0	0	0	0	0	0	0
5/20/2024 9:04	57205	ROSS_T1	1	0	-1	0.1	0	-0.1	0.23	0.22	0	0	0	0	0	0
5/20/2024 9:05	43201	MVIL_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/20/2024 9:05	43202	MVIL_T2	110	118	8	1.45	1.39	-0.06	-0.53	-0.51	0	0	0	0	0	0
5/20/2024 9:07	57205	ROSS_T1	1	0	-1	0.1	0	-0.1	0.23	0.22	0	0	0	0	0	0
5/20/2024 9:07	57203	ROSS_T1	0	0	0	0	0	0	-0.45	-0.66	0	0	0	0	0	0
5/20/2024 9:07	67605	WARW_T1	33	36	3	0.52	0.55	0.03	-1.03	-1.06	0	0	0	0	0	0
5/20/2024 9:08	67605	WARW_T1	33	36	3	0.52	0.55	0.03	-2.12	-2.08	0	0	0	0	0	0
5/20/2024 9:09	43304	WATS_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 9:10	43304	WATS_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 9:18	13302	ORVI_T2	1	2	1	0.4	0.55	0.15	1.16	1.22	0	0	0	0	0	0
5/20/2024 9:19	67204	TEHI_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
5/20/2024 9:20	67204	TEHI_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
5/20/2024 9:21	20401	ASHF_T2	2	5	3	0.35	0.47	0.12	-0.28	-0.13	0	0	0	0	0	0
5/20/2024 9:21	13302	ORVI_T2	1	2	1	0.4	0.55	0.15	1.16	1.22	0	0	0	0	0	0
5/20/2024 9:22	40201	BEGA_T2	1	1	0	0.6	1.2	0.6	0	0	0	0	0	0	0	0
5/20/2024 9:23	13302	ORVI_T2	1	2	1	0.4	0.55	0.15	1.16	1.22	0	0	0	0	0	0
5/20/2024 9:25	40201	BEGA_T2	1	1	0	0.6	1.2	0.6	0	0	0	0	0	0	0	0
5/20/2024 9:27	46803	HEPB_T2	0	2	2	0	0.55	0.55	0.46	0.51	0	0	0	0	0	0
5/20/2024 9:27	62106	ELAN_T1	0	0	0	0	0	0	0.79	0.54	0	0	0	0	0	0
5/20/2024 9:27	62105	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 9:27	46801	HEPB_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/20/2024 9:32	58402	MORO_T1	0	0	0	0	0	0	-0.91	-0.89	3	3	0	2400	2400	0
5/20/2024 9:33	58402	MORO_T1	0	0	0	0	0	0	-0.91	-0.89	3	3	0	2400	2400	0
5/20/2024 9:34	58402	MORO_T1	0	0	0	0	0	0	-0.91	-0.89	3	3	0	2400	2400	0
5/20/2024 9:34	56501	ROCK_T2	2	2	0	0.3	0.25	-0.05	83.96	83.96	0	0	0	0	0	0
5/20/2024 9:34	44601	SALE_T2	0	0	0	0	0	0	1.81	0.36	4	2	-2	1800	1200	-600
5/20/2024 9:35	62607	ENGL_T1	0	1	1	0	0.1	0.1	-1.1	-1.06	1	1	0	300	300	0
5/20/2024 9:35	62605	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/20/2024 9:36	62605	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/20/2024 9:36	62607	ENGL_T1	0	1	1	0	0.1	0.1	-2.2	-2.12	2	2	0	600	600	0
5/20/2024 9:37	66703	STRA_T1	17	75	58	0.25	0.17	-0.08	-0.16	-0.12	0	0	0	0	0	0
5/20/2024 9:37	43301	WATS_T2	0	1	1	0	1.1	1.1	0	0	1	1	0	900	900	0
5/20/2024 9:37	66701	STRA_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/20/2024 9:38	66703	STRA_T1	17	75	58	0.25	0.17	-0.08	-0.12	-0.17	0	0	0	0	0	0
5/20/2024 9:38	66701	STRA_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/20/2024 9:38	56501	ROCK_T2	2	2	0	0.3	0.25	-0.05	167.92	167.92	0	0	0	0	0	0
5/20/2024 9:39	67502	WEWI_T2	1	2	1	0.3	0.2	-0.1	-0.27	-0.32	0	0	0	0	0	0
5/20/2024 9:39	66703	STRA_T1	17	75	58	0.25	0.17	-0.08	-0.12	-0.17	0	0	0	0	0	0
5/20/2024 9:39	66701	STRA_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/20/2024 9:41	47203	FAXO_T2	0	0	0	0	0	0	-1.45	-1.42	1	1	0	1200	1200	0
5/20/2024 9:50	67204	TEHI_T2	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
5/20/2024 9:51	67001	STHI_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
5/20/2024 9:51	67002	STHI_T2	0	0	0	0	0	0	1.58	1.54	0	0	0	0	0	0
5/20/2024 9:52	67204	TEHI_T2	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
5/20/2024 9:52	67002	STHI_T2	0	0	0	0	0	0	0.79	0.77	0	0	0	0	0	0
5/20/2024 9:52	67001	STHI_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
5/20/2024 9:53	67002	STHI_T2	0	0	0	0	0	0	1.54	1.7	0	0	0	0	0	0
5/20/2024 9:54	67002	STHI_T2	0	0	0	0	0	0	0.77	0.85	0	0	0	0	0	0
5/20/2024 9:54	29402	BELT_T1	1	1	0	8.6	8.6	0	0	0	0	0	0	0	0	0
5/20/2024 9:54	29401	BELT_T1	34	4	-30	0.15	0.1	-0.05	0	0	1	1	0	900	900	0
5/20/2024 10:00	43201	MVIL_T2	1	2	1	0.1	0.15	0.05	-0.21	-0.23	0	0	0	0	0	0
5/20/2024 10:00	62601	ENGL_T1	0	0	0	0	0	0	0	-0.07	0	0	0	0	0	0
5/20/2024 10:00	58003	WCAR_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
5/20/2024 10:00	62602	ENGL_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
5/20/2024 10:00	13704	SCHN_T2	0	0	0	0	0	0	0	-0.24	-0.1	0	0	0	0	0
5/20/2024 10:00	62607	ENGL_T1	1	1	0	0.1	0.4	0.3	-1.06	-1.04	1	1	0	300	300	0
5/20/2024 10:00	40505	CRES_T1	3	3	0	4.53	4.73	0.2	0.4	0.38	0	0	0	0	0	0
5/20/2024 10:00	58001	WCAR_T1	4	4	0	1.03	1.05	0.02	0.75	0.8	0	0	0	0	0	0
5/20/2024 10:00	67502	WEWI_T2	2	4	2	0.15	0.4	0.25	0	0	0	0	0	0	0	0
5/20/2024 10:00	55002	NEWP_T1	8	12	4	0.46	0.68	0.22	-0.8	-0.8	0	0	0	0	0	0
5/20/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
5/20/2024 10:00	43202	MVIL_T2	99	108	9	0.96	1.01	0.05	0	0	0	0	0	0	0	0
5/20/2024 10:01	46802	HEPB_T1	1	1	0	1	1	0	-0.19	-0.12	0	0	0	0	0	0
5/20/2024 10:04	67002	STHI_T2	0	0	0	0	0	0	0.77	0.85	0	0	0	0	0	0
5/20/2024 10:05	42002	MNVL_T2	1	1	0	4	4.6	0.6	0	0	0	0	0	0	0	0
5/20/2024 10:05	42001	MNVL_T2	2	2	0	0.25	0.4	0.15	0.08	0.08	0	0	0	0	0	0
5/20/2024 10:05	67002	STHI_T2	0	0	0	0	0	0	0.77	0.85	0	0	0	0	0	0
5/20/2024 10:06	67002	STHI_T2	0	0	0	0	0	0	0.77	0.85	0	0	0	0	0	0
5/20/2024 10:06	57403	SPAN_T1	26	17	-9	0.27	0.21	-0.06	-0.02	0.03	0	0	0	0	0	0
5/20/2024 10:07	67002	STHI_T2	0	0	0	0	0	0	2.31	2.55	0	0	0	0	0	0
5/20/2024 10:07	57403	SPAN_T1	26	17	-9	0.27	0.21	-0.06	-0.02	0.03	0	0	0	0	0	0
5/20/2024 10:08	57403	SPAN_T1	26	17	-9	0.27	0.21	-0.06	0.03	-0.02	0	0	0	0	0	0
5/20/2024 10:08	43802	SWIL_T1	0	0	0	0	0	0	-0.06	-0.05	1	1	0	600	600	0
5/20/2024 10:08	13302	ORVI_T2	2	2	0	0.45	0.3	-0.15	1.21	1.21	0	0	0	0	0	0
5/20/2024 10:08	43301	WATS_T2	1	1	0	1.1	0.9	-0.2	0	0	1	1	0	900	900	0
5/20/2024 10:08	43801	SWIL_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
5/20/2024 10:08	58001	WCAR_T1	4	4	0	1.03	1.05	0.02	0	0	0	0	0	0	0	0
5/20/2024 10:08	67002	STHI_T2	0	0	0	0	0	0	0.85	0.79	0	0	0	0	0	0
5/20/2024 10:08	17002	RIRO_T2	3	6	3	0.5	0.42	-0.08	0.66	0.68	0	0	0	0	0	0
5/20/2024 10:08	58003	WCAR_T1	1	1	0	1.6	1.6	0	0.29	0.44	2	2	0	1200	1200	0
5/20/2024 10:09	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/20/2024 10:09	29401	BELT_T1	3	3	0	0.1	0.1	0	0	0	1	1	0	900	900	0
5/20/2024 10:09	67703	WERN_T2	0	0	0	0	0	0	-0.24	-0.11	2	2	0	1800	1800	0
5/20/2024 10:09	20401	ASHF_T2	3	4	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/20/2024 10:09	20403	ASHF_T2	0	1	1	0	0	0	0.61	0.64	0	0	0	0	0	0
5/20/2024 10:09	67002	STHI_T2	0	0	0	0	0	0	1.7	1.58	0	0	0	0	0	0
5/20/2024 10:09	29402	BELT_T1	1	1	0	8.6	8.5	-0.1	0	0	0	0	0	0	0	0
5/20/2024 10:09	67502	WEWI_T2	2	4	2	0.15	0.4	0.25	-0.28	-0.2	0	0	0	0	0	0
5/20/2024 10:10	40201	BEGA_T2	1	1	0	0.9	1.5	0.6	0	0	0	0	0	0	0	0
5/20/2024 10:10	29402	BELT_T1	1	1	0	8.6	8.5	-0.1	0	0	0	0	0	0	0	0
5/20/2024 10:10	16102	BING_T2	0	0	0	0	0	0	1.25	1.28	0	0	0	0	0	0
5/20/2024 10:10	20403	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 10:10	29401	BELT_T1	3	3	0	0.1	0.1	0	0	0	1	1	0	900	900	0
5/20/2024 10:10	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 10:10	60101	COCA_T1	0	0	0	0	0	0	0.82	0.79	0	0	0	0	0	0
5/20/2024 10:10	26603	BROO_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
5/20/2024 10:10	20401	ASHF_T2	3	4	1	0.6	0.5	-0.1	-0.08	-0.07	0	0	0	0	0	0
5/20/2024 10:10	67002	STHI_T2	0	0	0	0	0	0	0.85	0.79	0	0	0	0	0	0
5/20/2024 10:12	29402	BELT_T1	1	1	0	8.6	8.5	-0.1	0	0	0	0	0	0	0	0
5/20/2024 10:12	29401	BELT_T1	3	3	0	0.1	0.1	0	0	0	1	1	0	900	900	0
5/20/2024 10:12	26603	BROO_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
5/20/2024 10:13	29402	BELT_T1	1	1	0	8.6	8.5	-0.1	0	0	0	0	0	0	0	0
5/20/2024 10:13	60101	COCA_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
5/20/2024 10:13	29401	BELT_T1	3	3	0	0.1	0.1	0	0	0	1	1	0	900	900	0
5/20/2024 10:14	29401	BELT_T1	3	3	0	0.1	0.1	0	0	0	2	2	0	1800	1800	0
5/20/2024 10:14	29402	BELT_T1	1	1	0	8.6	8.5	-0.1	0	0	0	0	0	0	0	0
5/20/2024 10:15	13503	MCMI_T2	0	4	4	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
5/20/2024 10:16	64702	LITI_T2	0	0	0	0	0	0	-0.4	-0.45	0	0	0	0	0	0
5/20/2024 10:17	64702	LITI_T2	0	0	0	0	0	0	-0.8	-0.89	0	0	0	0	0	0
5/20/2024 10:18	41902	REED_T1	0	1	1	0	0	0	1.15	1.1	0	0	0	0	0	0
5/20/2024 10:19	66703	STRA_T1	28	15	-13	0.19	0.26	0.07	-0.14	-0.09	0	0	0	0	0	0
5/20/2024 10:19	43202	MVIL_T2	108	103	-5	1.01	0.86	-0.15	-0.5	-0.46	0	0	0	0	0	0
5/20/2024 10:19	65503	MOJO_T2	0	0	0	0	0	0	-0.79	-0.73	1	1	0	900	900	0
5/20/2024 10:19	59301	MCAL_T1	6	6	0	0.68	0.58	-0.1	-1.48	-1.47	1	1	0	600	600	0
5/20/2024 10:19	43201	MVIL_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/20/2024 10:20	66703	STRA_T1	28	15	-13	0.19	0.26	0.07	-0.28	-0.18	0	0	0	0	0	0
5/20/2024 10:20	43202	MVIL_T2	108	103	-5	1.01	0.86	-0.15	-0.5	-0.46	0	0	0	0	0	0
5/20/2024 10:20	59101	WALK_T2	0	1	1	0	0.2	0.2	0.75	0.76	0	0	0	0	0	0
5/20/2024 10:20	43201	MVIL_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/20/2024 10:20	41902	REED_T1	0	1	1	0	0	0	1.15	1.1	0	0	0	0	0	0
5/20/2024 10:20	62607	ENGL_T1	1	0	-1	0.4	0	-0.4	-1.04	-1.02	1	1	0	300	300	0
5/20/2024 10:21	59101	WALK_T2	0	1	1	0	0.2	0.2	0.38	0.38	0	0	0	0	0	0
5/20/2024 10:22	66701	STRA_T1	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
5/20/2024 10:22	66703	STRA_T1	28	15	-13	0.19	0.26	0.07	0	0	0	0	0	0	0	0
5/20/2024 10:22	67204	TEHI_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
5/20/2024 10:22	45602	WOOL_T1	8	7	-1	0.31	0.29	-0.02	0.58	0.61	0	0	0	0	0	0
5/20/2024 10:23	43301	WATS_T2	1	2	1	0.9	0.45	-0.45	0	0	0	0	0	0	0	0
5/20/2024 10:23	67204	TEHI_T2	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
5/20/2024 10:23	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 10:24	10102	ALLE_T2	1	1	0	7	7.2	0.2	0	0	0	0	0	0	0	0
5/20/2024 10:24	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 10:24	59101	WALK_T2	0	1	1	0	0.2	0.2	0.38	0.35	0	0	0	0	0	0
5/20/2024 10:26	43202	MVIL_T2	108	103	-5	1.01	0.86	-0.15	-0.46	-0.48	0	0	0	0	0	0
5/20/2024 10:26	43201	MVIL_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/20/2024 10:26	45602	WOOL_T1	8	7	-1	0.31	0.29	-0.02	0.61	0.58	0	0	0	0	0	0
5/20/2024 10:28	45602	WOOL_T1	8	7	-1	0.31	0.29	-0.02	0.61	0.58	0	0	0	0	0	0
5/20/2024 10:30	59201	THOM_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/20/2024 10:30	59202	THOM_T1	2	4	2	0.15	0.15	0	0	0	0	0	0	0	0	0
5/20/2024 10:30	64902	MILL_T2	0	0	0	0	0	0	-0.54	-0.62	1	1	0	900	900	0
5/20/2024 10:31	23201	HIRU_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/20/2024 10:31	23202	HIRU_T2	0	1	1	0	0.1	0.1	0.08	0.09	0	0	0	0	0	0
5/20/2024 10:31	65502	MOJO_T2	0	0	0	0	0	0	0.08	0.03	1	1	0	900	900	0
5/20/2024 10:32	52403	GRPA_T2	12	16	4	0.31	0.33	0.02	0.14	0.15	0	0	0	0	0	0
5/20/2024 10:32	52402	GRPA_T2	9	10	1	0.66	0.6	-0.06	0	0	0	0	0	0	0	0
5/20/2024 10:32	52401	GRPA_T2	1	2	1	1	0.55	-0.45	0	0	0	0	0	0	0	0
5/20/2024 10:34	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 10:34	65502	MOJO_T2	0	0	0	0	0	0	0.08	0.03	1	1	0	900	900	0
5/20/2024 10:34	64902	MILL_T2	0	0	0	0	0	0	-0.54	-0.62	1	1	0	900	900	0
5/20/2024 10:34	13905	SEID_T1	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
5/20/2024 10:34	56501	ROCK_T2	2	2	0	0.15	0.1	-0.05	83.96	83.96	0	0	0	0	0	0
5/20/2024 10:35	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/20/2024 10:35	67605	WARW_T1	23	26	3	0.44	0.59	0.15	-1.02	-1.01	0	0	0	0	0	0
5/20/2024 10:36	56501	ROCK_T2	2	2	0	0.15	0.1	-0.05	83.96	83.96	0	0	0	0	0	0
5/20/2024 10:37	15703	TANN_T2	1	1	0	6	5.5	-0.5	0	0	0	0	0	0	0	0
5/20/2024 10:37	56501	ROCK_T2	2	2	0	0.15	0.1	-0.05	83.96	83.96	0	0	0	0	0	0
5/20/2024 10:37	15702	TANN_T2	0	5	5	0	0.4	0.4	-0.75	-0.62	0	0	0	0	0	0
5/20/2024 10:37	67603	WARW_T1	0	1	1	0	0.3	0.3	0.05	0.01	0	0	0	0	0	0
5/20/2024 10:37	67605	WARW_T1	23	26	3	0.44	0.59	0.15	-1.02	-1.01	0	0	0	0	0	0
5/20/2024 10:40	16301	ALPA_T1	0	0	0	0	0	0	-0.24	-0.19	0	0	0	0	0	0
5/20/2024 10:40	14801	TREI_T2	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
5/20/2024 10:40	15703	TANN_T2	1	1	0	6	5.5	-0.5	0	0	0	0	0	0	0	0
5/20/2024 10:40	15702	TANN_T2	0	5	5	0	0.4	0.4	-0.31	-0.32	0	0	0	0	0	0
5/20/2024 10:41	16301	ALPA_T1	0	0	0	0	0	0	-0.24	-0.19	0	0	0	0	0	0
5/20/2024 10:42	21206	ECAR_T2	5	2	-3	1.76	7.6	5.84	0.49	0.59	0	0	0	0	0	0
5/20/2024 10:42	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 10:42	28403	HART_T2	0	1	1	0	0.1	0.1	-0.77	-0.77	1	1	0	900	900	0
5/20/2024 10:43	29402	BELT_T1	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
5/20/2024 10:43	29401	BELT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/20/2024 10:44	47203	FAXO_T2	0	0	0	0	0	0	-1.36	-1.37	1	1	0	1200	1200	0
5/20/2024 10:45	56501	ROCK_T2	2	2	0	0.1	0.1	0	83.96	83.96	0	0	0	0	0	0
5/20/2024 10:45	21206	ECAR_T2	2	8	6	4	7.4	3.4	0.49	0.59	0	0	0	0	0	0
5/20/2024 10:45	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 10:46	64904	MILL_T1	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
5/20/2024 10:46	42903	MIDD_T2	2	2	0	0.45	0.45	0	0.86	0.97	1	1	0	1200	1200	0
5/20/2024 10:46	42902	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 10:46	28805	LAKE_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
5/20/2024 10:48	13502	MCMI_T1	1	2	1	1.1	1.15	0.05	0	0	0	0	0	0	0	0
5/20/2024 10:48	13501	MCMI_T1	0	1	1	0	0.4	0.4	0.05	0.06	0	0	0	0	0	0
5/20/2024 10:50	13501	MCMI_T1	0	1	1	0	0.4	0.4	0.05	0.06	0	0	0	0	0	0
5/20/2024 10:50	13502	MCMI_T1	1	2	1	1.1	1.15	0.05	0	0	0	0	0	0	0	0
5/20/2024 10:52	25502	MADI_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/20/2024 10:52	25503	MADI_T1	0	10	10	0	0.12	0.12	-0.94	-0.94	0	0	0	0	0	0
5/20/2024 10:52	25501	MADI_T1	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
5/20/2024 10:55	22001	BOHE_T1	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/20/2024 10:55	22003	BOHE_T1	3	4	1	1.63	1.38	-0.25	0	0	0	0	0	0	0	0
5/20/2024 10:55	22002	BOHE_T1	0	0	0	0	0	0	0.41	0.45	0	0	0	0	0	0
5/20/2024 10:56	67703	WERN_T2	0	0	0	0	0	0	-0.06	-0.11	1	1	0	900	900	0
5/20/2024 10:57	17802	GILB_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
5/20/2024 10:57	63302	GREE_T1	0	0	0	0	0	0	0.7	0.84	0	0	0	0	0	0
5/20/2024 11:00	40101	HUNT_T2	0	3	3	0	0.23	0.23	-0.36	-0.45	0	0	0	0	0	0
5/20/2024 11:01	17803	GILB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 11:01	17804	GILB_T2	2	5	3	0.5	0.72	0.22	-0.56	-0.57	0	0	0	0	0	0
5/20/2024 11:01	17805	GILB_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/20/2024 11:05	42201	SHEN_T2	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
5/20/2024 11:05	66703	STRA_T1	7	1	-6	0.21	0.3	0.09	-0.14	-0.06	0	0	0	0	0	0
5/20/2024 11:07	67605	WARW_T1	23	16	-7	0.53	0.59	0.06	-1.05	-1.03	0	0	0	0	0	0
5/20/2024 11:07	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 11:08	27502	WEIS_T2	0	0	0	0	0	0	-0.34	-0.31	0	0	0	0	0	0
5/20/2024 11:08	14802	TREI_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
5/20/2024 11:08	27503	WEIS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/20/2024 11:08	14801	TREI_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
5/20/2024 11:09	29401	BELT_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/20/2024 11:09	67502	WEWI_T2	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
5/20/2024 11:09	67503	WEWI_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
5/20/2024 11:09	29402	BELT_T1	1	3	2	8.5	4.35	-4.15	0	0	0	0	0	0	0	0
5/20/2024 11:11	67703	WERN_T2	0	0	0	0	0	0	-0.11	-0.05	1	1	0	900	900	0
5/20/2024 11:11	21206	ECAR_T2	1	8	7	7.2	2.63	-4.57	0.57	0.5	0	0	0	0	0	0
5/20/2024 11:11	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 11:12	29402	BELT_T1	1	3	2	8.5	4.35	-4.15	0	0	0	0	0	0	0	0
5/20/2024 11:12	67703	WERN_T2	0	0	0	0	0	0	-0.11	-0.05	1	1	0	900	900	0
5/20/2024 11:12	29401	BELT_T1	1	2	1	0.2	0.4	0.2	0	0	4	4	0	3600	3600	0
5/20/2024 11:13	51108	CARL_T1	0	0	0	0	0	0	-0.43	-0.35	1	1	0	600	600	0
5/20/2024 11:13	29401	BELT_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/20/2024 11:13	29402	BELT_T1	1	3	2	8.5	4.35	-4.15	0	0	0	0	0	0	0	0
5/20/2024 11:17	25402	LAHA_T2	2	1	-1	0.4	0.5	0.1	-0.35	-0.22	0	0	0	0	0	0
5/20/2024 11:19	46301	ROHR_T1	159	185	26	0.31	0.34	0.03	0.29	0.28	0	0	0	0	0	0
5/20/2024 11:19	46302	ROHR_T1	10	19	9	1.08	0.77	-0.31	0.2	0.21	0	0	0	0	0	0
5/20/2024 11:22	40201	BEGA_T2	2	3	1	0.8	0.8	0	0	0	0	0	0	0	0	0
5/20/2024 11:22	58001	WCAR_T1	5	6	1	0.74	0.73	-0.01	0	0	0	0	0	0	0	0
5/20/2024 11:22	58003	WCAR_T1	3	5	2	0.87	0.66	-0.21	0.06	0.21	1	1	0	600	600	0
5/20/2024 11:23	58002	WCAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 11:23	46301	ROHR_T1	159	185	26	0.31	0.34	0.03	0.29	0.28	0	0	0	0	0	0
5/20/2024 11:23	58006	WCAR_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
5/20/2024 11:23	46302	ROHR_T1	10	19	9	1.08	0.77	-0.31	0.2	0.21	0	0	0	0	0	0
5/20/2024 11:24	53601	DALM_T2	1	1	0	0.2	0.4	0.2	-0.39	-0.54	1	1	0	900	900	0
5/20/2024 11:24	46302	ROHR_T1	10	19	9	1.08	0.77	-0.31	0	0	0	0	0	0	0	0
5/20/2024 11:24	46301	ROHR_T1	159	185	26	0.31	0.34	0.03	0.28	0.27	0	0	0	0	0	0
5/20/2024 11:25	29402	BELT_T1	1	5	4	8.2	2.04	-6.16	0	0	0	0	0	0	0	0
5/20/2024 11:25	40201	BEGA_T2	2	3	1	0.8	0.8	0	0	0	0	0	0	0	0	0
5/20/2024 11:25	29401	BELT_T1	0	5	5	0	0.38	0.38	0	0	0	0	0	0	0	0
5/20/2024 11:26	62102	ELAN_T1	0	0	0	0	0	0	0.62	0.7	0	0	0	0	0	0
5/20/2024 11:26	62105	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/20/2024 11:26	55105	WERT_T1	0	0	0	0	0	0	-0.43	-0.38	1	1	0	900	900	0
5/20/2024 11:27	29402	BELT_T1	1	5	4	8.2	2.04	-6.16	0	0	0	0	0	0	0	0
5/20/2024 11:27	53501	EVIL_T2	2	5	3	0.35	0.68	0.33	0	0	0	0	0	0	0	0
5/20/2024 11:27	29401	BELT_T1	0	5	5	0	0.38	0.38	0	0	1	1	0	900	900	0
5/20/2024 11:27	53601	DALM_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/20/2024 11:27	53602	DALM_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	600	600	0
5/20/2024 11:27	58006	WCAR_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
5/20/2024 11:27	58002	WCAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 11:27	53502	EVIL_T2	1	0	-1	0.2	0	-0.2	0.18	0.17	2	2	0	1200	1200	0
5/20/2024 11:29	62102	ELAN_T1	0	0	0	0	0	0	0.62	0.7	0	0	0	0	0	0
5/20/2024 11:29	63602	LETO_T1	0	0	0	0	0	0	-0.25	-0.3	0	0	0	0	0	0
5/20/2024 11:29	47001	HUGH_T2	1	1	0	0.2	0.1	-0.1	-0.52	-0.54	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/20/2024 11:29	62105	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/20/2024 11:30	47001	HUGH_T2	1	0	-1	0.1	0	-0.1	-0.52	-0.54	0	0	0	0	0	0
5/20/2024 11:31	53903	HALI_T2	3	7	4	1.03	0.66	-0.37	0	0	0	0	0	0	0	0
5/20/2024 11:31	53901	HALI_T2	1	3	2	0.5	0.67	0.17	-1.4	-1.31	0	0	0	0	0	0
5/20/2024 11:31	12501	MITR_T2	0	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0
5/20/2024 11:31	42902	MIDD_T2	1	2	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/20/2024 11:31	12505	MITR_T2	1	1	0	0.2	0.3	0.1	1.86	1.81	0	0	0	0	0	0
5/20/2024 11:31	42903	MIDD_T2	2	2	0	0.15	0.1	-0.05	1.07	1.15	1	1	0	1200	1200	0
5/20/2024 11:31	53902	HALI_T2	3	3	0	1.77	2.27	0.5	0	0	0	0	0	0	0	0
5/20/2024 11:31	12502	MITR_T2	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
5/20/2024 11:32	63602	LETO_T1	0	0	0	0	0	0	-0.25	-0.3	0	0	0	0	0	0
5/20/2024 11:33	65205	PRIN_T1	1	1	0	0	0.4	0.4	0	0	0	0	0	0	0	0
5/20/2024 11:33	62606	ENGL_T1	0	0	0	0	0	0	-0.59	-0.57	1	1	0	900	900	0
5/20/2024 11:33	47001	HUGH_T2	1	0	-1	0.1	0	-0.1	-0.52	-0.54	0	0	0	0	0	0
5/20/2024 11:33	62602	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/20/2024 11:34	47802	MOCA_T2	3	3	0	0.57	0.67	0.1	-0.83	-0.82	0	0	0	0	0	0
5/20/2024 11:34	54203	PENN_T1	18	18	0	0.68	0.95	0.27	0	0	0	0	0	0	0	0
5/20/2024 11:34	54201	PENN_T1	7	8	1	1.06	1.14	0.08	-0.78	-0.8	0	0	0	0	0	0
5/20/2024 11:35	62601	ENGL_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/20/2024 11:35	62602	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/20/2024 11:36	14401	SSLA_T1	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
5/20/2024 11:36	14404	SSLA_T1	1	3	2	5.7	2.2	-3.5	0.02	0.04	0	0	0	0	0	0
5/20/2024 11:36	67603	WARW_T1	1	2	1	0.1	0.9	0.8	0	0	0	0	0	0	0	0
5/20/2024 11:36	67605	WARW_T1	15	25	10	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
5/20/2024 11:36	14403	SSLA_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/20/2024 11:36	14402	SSLA_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
5/20/2024 11:36	67604	WARW_T1	0	0	0	0	0	0	0.38	0.29	0	0	0	0	0	0
5/20/2024 11:37	67603	WARW_T1	1	2	1	0.1	0.9	0.8	0	0	0	0	0	0	0	0
5/20/2024 11:37	67605	WARW_T1	15	25	10	0.57	0.53	-0.04	-1.02	-0.97	0	0	0	0	0	0
5/20/2024 11:38	67703	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 11:38	67702	WERN_T2	0	1	1	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
5/20/2024 11:39	67603	WARW_T1	1	2	1	0.1	0.9	0.8	0	0	0	0	0	0	0	0
5/20/2024 11:39	29402	BELT_T1	2	5	3	4.35	2	-2.35	0	0	0	0	0	0	0	0
5/20/2024 11:39	67602	WARW_T2	0	0	0	0	0	0	1.04	1.05	0	0	0	0	0	0
5/20/2024 11:39	29401	BELT_T1	2	6	4	0.4	0.43	0.03	0	0	2	2	0	1800	1800	0
5/20/2024 11:39	67604	WARW_T1	0	0	0	0	0	0	0.29	0.25	0	0	0	0	0	0
5/20/2024 11:39	67605	WARW_T1	15	25	10	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
5/20/2024 11:40	14401	SSLA_T1	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
5/20/2024 11:40	14404	SSLA_T1	1	3	2	5.7	2.2	-3.5	0.04	0.03	0	0	0	0	0	0
5/20/2024 11:40	10102	ALLE_T2	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
5/20/2024 11:40	14402	SSLA_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
5/20/2024 11:40	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 11:40	14403	SSLA_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/20/2024 11:40	10203	ALLE_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
5/20/2024 11:41	29402	BELT_T1	2	5	3	4.35	2	-2.35	0	0	0	0	0	0	0	0
5/20/2024 11:41	29401	BELT_T1	2	6	4	0.4	0.43	0.03	0	0	1	1	0	900	900	0
5/20/2024 11:42	29401	BELT_T1	2	6	4	0.4	0.43	0.03	0	0	1	1	0	900	900	0
5/20/2024 11:42	29402	BELT_T1	2	5	3	4.35	2	-2.35	0	0	0	0	0	0	0	0
5/20/2024 11:43	29401	BELT_T1	2	6	4	0.4	0.43	0.03	0	0	2	2	0	1800	1800	0
5/20/2024 11:43	29402	BELT_T1	2	5	3	4.35	2	-2.35	0	0	0	0	0	0	0	0
5/20/2024 11:44	29401	BELT_T1	2	6	4	0.4	0.43	0.03	0	0	0	0	0	0	0	0
5/20/2024 11:44	29402	BELT_T1	2	5	3	4.35	2	-2.35	0	0	0	0	0	0	0	0
5/20/2024 11:44	24102	EHAZ_T1	1	5	4	0.5	1.4	0.9	0	0	0	0	0	0	0	0
5/20/2024 11:44	24103	EHAZ_T1	0	0	0	0	0	0	-0.26	-0.19	0	0	0	0	0	0
5/20/2024 11:44	40101	HUNT_T2	3	1	-2	0.23	0.2	-0.03	-0.84	-0.76	0	0	0	0	0	0
5/20/2024 11:44	24104	EHAZ_T1	2	1	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/20/2024 11:44	24105	EHAZ_T1	4	4	0	5.25	5.55	0.3	0	0	0	0	0	0	0	0
5/20/2024 11:44	24101	EHAZ_T1	15	23	8	0.44	1.01	0.57	0	0	0	0	0	0	0	0
5/20/2024 11:45	67605	WARW_T1	12	25	13	0.52	0.54	0.02	-0.97	-0.97	0	0	0	0	0	0
5/20/2024 11:45	67603	WARW_T1	2	2	0	0.55	1.1	0.55	0	0	0	0	0	0	0	0
5/20/2024 11:47	64101	REFR_T1	0	3	3	0	0.47	0.47	-0.12	-0.1	0	0	0	0	0	0
5/20/2024 11:47	60502	NMAN_T2	0	0	0	0	0	0	-0.11	-0.01	0	0	0	0	0	0
5/20/2024 11:47	60501	NMAN_T2	3	3	0	4.33	4.67	0.34	0	0	0	0	0	0	0	0
5/20/2024 11:48	64101	REFR_T1	0	3	3	0	0.47	0.47	-0.24	-0.2	0	0	0	0	0	0
5/20/2024 11:49	64101	REFR_T1	0	3	3	0	0.47	0.47	-0.12	-0.1	0	0	0	0	0	0
5/20/2024 11:49	64801	MONE_T2	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
5/20/2024 11:49	64802	MONE_T2	2	11	9	0.15	0.22	0.07	0.22	0.23	0	0	0	0	0	0
5/20/2024 11:49	51702	OBER_T1	2	5	3	2.95	1.64	-1.31	-0.51	-0.58	0	0	0	0	0	0
5/20/2024 11:49	42802	SELI_T1	0	1	1	0	0.1	0.1	-0.52	-0.47	1	1	0	900	900	0
5/20/2024 11:50	65205	PRIN_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/20/2024 11:50	64101	REFR_T1	0	3	3	0	0.47	0.47	-0.12	-0.1	0	0	0	0	0	0
5/20/2024 11:50	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/20/2024 11:51	64101	REFR_T1	0	3	3	0	0.47	0.47	-0.24	-0.2	0	0	0	0	0	0
5/20/2024 11:51	60501	NMAN_T2	3	3	0	4.33	4.67	0.34	0	0	0	0	0	0	0	0
5/20/2024 11:51	60502	NMAN_T2	0	0	0	0	0	0	-0.11	-0.01	0	0	0	0	0	0
5/20/2024 11:52	13701	SCHN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/20/2024 11:52	13704	SCHN_T2	1	1	0	0.2	0.6	0.4	0.06	0.05	0	0	0	0	0	0
5/20/2024 11:52	67204	TEHI_T2	0	0	0	0	0	0	-0.12	-0.06	0	0	0	0	0	0
5/20/2024 11:53	46301	ROHR_T1	145	118	-27	0.32	0.29	-0.03	0	0	0	0	0	0	0	0
5/20/2024 11:53	45402	WBLO_T2	3	2	-1	0.57	0.8	0.23	-1.34	-1.32	1	1	0	900	900	0
5/20/2024 11:53	58001	WCAR_T1	6	6	0	0.67	1.05	0.38	0	0	0	0	0	0	0	0
5/20/2024 11:53	46302	ROHR_T1	10	10	0	1.12	1.33	0.21	0.23	0.23	0	0	0	0	0	0
5/20/2024 11:53	58003	WCAR_T1	5	8	3	0.58	0.68	0.1	0.19	0.27	1	1	0	600	600	0
5/20/2024 11:54	14402	SSLA_T1	1	2	1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/20/2024 11:54	14404	SSLA_T1	1	5	4	5.7	1.52	-4.18	0	0	0	0	0	0	0	0
5/20/2024 11:54	42601	TUSC_T1	0	0	0	0	0	0	0.21	0.2	2	3	1	1800	2400	600
5/20/2024 11:54	14403	SSLA_T1	0	3	3	0	0.73	0.73	0.7	0.73	0	0	0	0	0	0
5/20/2024 11:54	55101	WERT_T1	0	0	0	0	0	0	-3.04	-2.76	6	6	0	4800	4800	0
5/20/2024 11:54	14401	SSLA_T1	2	5	3	0.25	0.56	0.31	0	0	0	0	0	0	0	0
5/20/2024 11:55	60102	COCA_T1	0	0	0	0	0	0	0.45	0.51	3	3	0	2100	2100	0
5/20/2024 11:55	42601	TUSC_T1	0	0	0	0	0	0	0.21	0.2	3	3	0	2400	2400	0
5/20/2024 11:55	60101	COCA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/20/2024 11:56	60101	COCA_T1	0	1	1	0	0.4	0.4	0.92	1.03	0	0	0	0	0	0
5/20/2024 11:56	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 11:56	10205	ALLE_T3	2	2	0	0.25	0	-0.25	0	0	0	0	0	0	0	0
5/20/2024 11:58	46004	BERW_T2	0	0	0	0	0	0	0.56	0.63	0	0	0	0	0	0
5/20/2024 11:58	16101	BING_T2	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
5/20/2024 11:58	16103	BING_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/20/2024 11:58	60102	COCA_T1	0	0	0	0	0	0	0.45	0.51	3	3	0	2100	2100	0
5/20/2024 11:58	60101	COCA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/20/2024 11:58	16102	BING_T2	5	2	-3	0.46	0.3	-0.16	0	0	0	0	0	0	0	0
5/20/2024 11:59	53903	HALI_T2	5	8	3	0.8	0.8	0	-0.12	-0.12	0	0	0	0	0	0
5/20/2024 11:59	53901	HALI_T2	1	3	2	0.6	0.67	0.07	-2.65	-2.61	0	0	0	0	0	0
5/20/2024 11:59	53902	HALI_T2	3	3	0	2	2.27	0.27	0	0	0	0	0	0	0	0
5/20/2024 12:00	51109	CARL_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/20/2024 12:00	51101	CARL_T1	0	0	0	0	0	0	-0.82	-0.89	1	1	0	600	600	0
5/20/2024 12:00	53903	HALI_T2	7	9	2	0.66	0.72	0.06	0	0	0	0	0	0	0	0
5/20/2024 12:00	53902	HALI_T2	3	3	0	2.27	2.2	-0.07	-0.14	-0.11	0	0	0	0	0	0
5/20/2024 12:00	46506	LOHA_T1	0	1	1	0	0.5	0.5	-0.37	-0.4	0	0	0	0	0	0
5/20/2024 12:00	51102	CARL_T1	5	4	-1	0.38	0.23	-0.15	0	0	0	0	0	0	0	0
5/20/2024 12:00	53901	HALI_T2	3	3	0	0.67	0.37	-0.3	0	0	0	0	0	0	0	0
5/20/2024 12:02	53902	HALI_T2	3	3	0	2.27	2.2	-0.07	0	0	0	0	0	0	0	0
5/20/2024 12:02	53903	HALI_T2	7	9	2	0.66	0.72	0.06	-0.12	-0.12	0	0	0	0	0	0
5/20/2024 12:02	53901	HALI_T2	3	3	0	0.67	0.37	-0.3	-1.33	-1.3	0	0	0	0	0	0
5/20/2024 12:03	62607	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 12:03	53902	HALI_T2	3	3	0	2.27	2.2	-0.07	0	0	0	0	0	0	0	0
5/20/2024 12:03	53901	HALI_T2	3	3	0	0.67	0.37	-0.3	-1.33	-1.3	0	0	0	0	0	0
5/20/2024 12:03	62602	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/20/2024 12:03	65904	SAKR_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 12:03	53903	HALI_T2	7	9	2	0.66	0.72	0.06	0	0	0	0	0	0	0	0
5/20/2024 12:03	65901	SAKR_T2	1	1	0	7.9	7.8	-0.1	-0.79	-0.68	1	1	0	900	900	0
5/20/2024 12:03	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 12:03	62601	ENGL_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
5/20/2024 12:04	64801	MONE_T2	3	2	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/20/2024 12:04	64802	MONE_T2	6	8	2	0.23	0.23	0	0.23	0.25	0	0	0	0	0	0
5/20/2024 12:05	65601	QVIL_T2	0	1	1	0	0.4	0.4	-0.88	-0.8	1	1	0	900	900	0
5/20/2024 12:06	27504	WEIS_T1	0	0	0	0	0	0	-0.73	-0.76	0	0	0	0	0	0
5/20/2024 12:07	67703	WERN_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
5/20/2024 12:07	57006	WHHI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/20/2024 12:07	57002	WHHI_T2	0	0	0	0	0	0	0.18	0.3	0	0	0	0	0	0
5/20/2024 12:07	13901	SEID_T1	0	0	0	0	0	0	-0.83	-0.82	1	1	0	1200	1200	0
5/20/2024 12:07	57003	WHHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/20/2024 12:07	67603	WARW_T1	1	2	1	1.3	1	-0.3	0.08	0.11	0	0	0	0	0	0
5/20/2024 12:07	13905	SEID_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/20/2024 12:07	67702	WERN_T2	1	1	0	0.3	0.5	0.2	-0.01	-0.01	0	0	0	0	0	0
5/20/2024 12:07	67605	WARW_T1	25	16	-9	0.53	0.64	0.11	0	0	0	0	0	0	0	0
5/20/2024 12:08	65901	SAKR_T2	1	1	0	7.9	7.8	-0.1	0	0	0	0	0	0	0	0
5/20/2024 12:08	67605	WARW_T1	25	16	-9	0.53	0.64	0.11	0	0	0	0	0	0	0	0
5/20/2024 12:08	67603	WARW_T1	1	2	1	1.3	1	-0.3	0.22	0.22	0	0	0	0	0	0
5/20/2024 12:08	65904	SAKR_T2	0	2	2	0	0.1	0.1	-1.59	-1.6	3	3	0	1500	1500	0
5/20/2024 12:08	45902	AUBU_T1	0	1	1	0	0.5	0.5	-0.57	-0.55	1	1	0	600	600	0
5/20/2024 12:09	56504	ROCK_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/20/2024 12:09	45902	AUBU_T1	0	1	1	0	0.5	0.5	-0.57	-0.55	1	1	0	600	600	0
5/20/2024 12:09	56501	ROCK_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/20/2024 12:10	54504	ENOL_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
5/20/2024 12:10	67702	WERN_T2	1	1	0	0.3	0.5	0.2	-0.01	-0.01	0	0	0	0	0	0
5/20/2024 12:10	45902	AUBU_T1	0	1	1	0	0.5	0.5	-1.15	-1.11	2	2	0	1200	1200	0
5/20/2024 12:10	54505	ENOL_T2	1	2	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
5/20/2024 12:10	67703	WERN_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
5/20/2024 12:10	54503	ENOL_T2	0	0	0	0	0	0	-1.77	-1.75	1	1	0	600	600	0
5/20/2024 12:12	60101	COCA_T1	1	1	0	0.2	0.4	0.2	1.55	1.53	0	0	0	0	0	0
5/20/2024 12:12	45902	AUBU_T1	0	1	1	0	0.5	0.5	-0.57	-0.55	1	1	0	600	600	0
5/20/2024 12:12	67603	WARW_T1	1	2	1	1.3	1	-0.3	0	0	0	0	0	0	0	0
5/20/2024 12:12	67703	WERN_T2	1	1	0	0.1	0.6	0.5	-0.1	-0.02	2	2	0	1800	1800	0
5/20/2024 12:12	67605	WARW_T1	25	16	-9	0.53	0.64	0.11	-0.96	-0.95	0	0	0	0	0	0
5/20/2024 12:12	67702	WERN_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/20/2024 12:13	44502	HAMI_T2	1	1	0	1.8	2.1	0.3	-0.64	-0.62	0	0	0	0	0	0
5/20/2024 12:13	54505	ENOL_T2	1	2	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
5/20/2024 12:13	54504	ENOL_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
5/20/2024 12:13	54501	ENOL_T2	0	0	0	0	0	0	-0.46	-0.45	1	1	0	600	600	0
5/20/2024 12:14	54502	ENOL_T2	0	0	0	0	0	0	-1.13	-1.11	1	1	0	600	600	0
5/20/2024 12:14	24102	EHAZ_T1	5	6	1	0.78	1	0.22	0	0	0	0	0	0	0	0
5/20/2024 12:14	54505	ENOL_T2	1	2	1	0.7	0.4	-0.3	-1.24	-1.22	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/20/2024 12:14	24104	EHAZ_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/20/2024 12:14	24103	EHAZ_T1	0	0	0	0	0	0	-0.12	-0.32	0	0	0	0	0	0
5/20/2024 12:14	54503	ENOL_T2	0	0	0	0	0	0	-3.55	-3.51	2	2	0	1200	1200	0
5/20/2024 12:14	24101	EHAZ_T1	13	9	-4	1.01	0.67	-0.34	0	0	0	0	0	0	0	0
5/20/2024 12:14	54504	ENOL_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
5/20/2024 12:14	24105	EHAZ_T1	4	4	0	5.58	5.45	-0.13	0	0	0	0	0	0	0	0
5/20/2024 12:15	52403	GRPA_T2	5	7	2	0.42	0.42	0	0.21	0.23	0	0	0	0	0	0
5/20/2024 12:15	52102	MEIS_T1	1	1	0	1.1	1	-0.1	0	0	1	1	0	450	450	0
5/20/2024 12:15	52101	MEIS_T1	2	1	-1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/20/2024 12:15	54505	ENOL_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
5/20/2024 12:15	52402	GRPA_T2	12	17	5	0.5	0.52	0.02	0	0	0	0	0	0	0	0
5/20/2024 12:15	54504	ENOL_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
5/20/2024 12:15	54503	ENOL_T2	0	0	0	0	0	0	-3.55	-3.51	2	2	0	1200	1200	0
5/20/2024 12:16	63202	MGTN_T2	0	0	0	0	0	0	0.2	0.21	1	1	0	900	900	0
5/20/2024 12:16	41205	KENM_T2	0	0	0	0	0	0	-0.83	-0.82	1	1	0	600	600	0
5/20/2024 12:16	46506	LOHA_T1	1	1	0	0.5	0.5	0	-0.8	-0.74	0	0	0	0	0	0
5/20/2024 12:16	52403	GRPA_T2	5	7	2	0.42	0.42	0	0.21	0.23	0	0	0	0	0	0
5/20/2024 12:16	52402	GRPA_T2	12	17	5	0.5	0.52	0.02	0	0	0	0	0	0	0	0
5/20/2024 12:16	42903	MIDD_T2	4	3	-1	0.75	1.1	0.35	0	0	0	0	0	0	0	0
5/20/2024 12:16	42902	MIDD_T2	4	4	0	0.45	0.35	-0.1	-0.11	-0.05	0	0	0	0	0	0
5/20/2024 12:17	52402	GRPA_T2	12	17	5	0.5	0.52	0.02	0	0	0	0	0	0	0	0
5/20/2024 12:17	52403	GRPA_T2	5	7	2	0.42	0.42	0	0.21	0.23	0	0	0	0	0	0
5/20/2024 12:17	54501	ENOL_T2	0	0	0	0	0	0	-0.46	-0.45	1	1	0	600	600	0
5/20/2024 12:17	54504	ENOL_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
5/20/2024 12:17	54505	ENOL_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
5/20/2024 12:18	52402	GRPA_T2	12	17	5	0.5	0.52	0.02	0	0	0	0	0	0	0	0
5/20/2024 12:18	52403	GRPA_T2	5	7	2	0.42	0.42	0	0.21	0.23	0	0	0	0	0	0
5/20/2024 12:18	42201	SHEN_T2	2	2	0	0.85	0.4	-0.45	-0.11	-0.09	1	1	0	600	600	0
5/20/2024 12:19	55001	NEWP_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
5/20/2024 12:19	46506	LOHA_T1	1	1	0	0.5	0.5	0	-0.8	-0.74	0	0	0	0	0	0
5/20/2024 12:19	67203	TEHI_T1	0	1	1	0	0.6	0.6	1.83	2.02	2	2	0	1200	1200	0
5/20/2024 12:19	42903	MIDD_T2	4	3	-1	0.75	1.1	0.35	0	0	0	0	0	0	0	0
5/20/2024 12:19	55002	NEWP_T1	14	12	-2	0.76	1.03	0.27	-0.14	-0.14	0	0	0	0	0	0
5/20/2024 12:19	42902	MIDD_T2	4	4	0	0.45	0.35	-0.1	-0.11	-0.05	0	0	0	0	0	0
5/20/2024 12:20	42802	SELI_T1	0	0	0	0	0	0	-0.44	-0.46	1	1	0	900	900	0
5/20/2024 12:20	66502	SMAN_T2	1	1	0	0.5	0.7	0.2	0.29	0.35	0	0	0	0	0	0
5/20/2024 12:20	42801	SELI_T1	1	0	-1	2.9	0	-2.9	0	0	0	0	0	0	0	0
5/20/2024 12:20	55001	NEWP_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
5/20/2024 12:20	55002	NEWP_T1	14	12	-2	0.76	1.03	0.27	-0.14	-0.14	0	0	0	0	0	0
5/20/2024 12:20	13704	SCHN_T2	1	1	0	0.4	0.5	0.1	0.18	0.05	0	0	0	0	0	0
5/20/2024 12:20	13701	SCHN_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/20/2024 12:20	42201	SHEN_T2	2	2	0	0.85	0.4	-0.45	-0.11	-0.09	1	1	0	600	600	0
5/20/2024 12:21	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 12:21	66502	SMAN_T2	1	1	0	0.5	0.7	0.2	0.29	0.35	0	0	0	0	0	0
5/20/2024 12:21	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 12:22	66902	SHIL_T2	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/20/2024 12:22	42201	SHEN_T2	2	2	0	0.85	0.4	-0.45	-0.11	-0.09	1	1	0	600	600	0
5/20/2024 12:22	67803	WLAN_T1	3	1	-2	0.27	0.4	0.13	-0.81	-0.75	0	0	0	0	0	0
5/20/2024 12:22	66903	SHIL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
5/20/2024 12:22	66901	SHIL_T2	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
5/20/2024 12:22	67804	WLAN_T1	6	5	-1	0.15	0.16	0.01	0	0	0	0	0	0	0	0
5/20/2024 12:23	67702	WERN_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/20/2024 12:23	67401	WAKE_T2	11	4	-7	0.34	0.33	-0.01	-1.03	-1.06	0	0	0	0	0	0
5/20/2024 12:23	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 12:23	67804	WLAN_T1	6	5	-1	0.15	0.16	0.01	-0.99	-0.97	0	0	0	0	0	0
5/20/2024 12:23	45902	AUBU_T1	0	2	2	0	0.5	0.5	-0.55	-0.51	1	1	0	600	600	0
5/20/2024 12:23	67803	WLAN_T1	3	1	-2	0.27	0.4	0.13	0	0	0	0	0	0	0	0
5/20/2024 12:23	67703	WERN_T2	1	1	0	0.6	0.5	-0.1	-0.01	-0.01	1	1	0	900	900	0
5/20/2024 12:23	67805	WLAN_T1	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
5/20/2024 12:24	57003	WHHI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/20/2024 12:24	67804	WLAN_T1	6	5	-1	0.15	0.16	0.01	-1.98	-1.94	0	0	0	0	0	0
5/20/2024 12:24	42201	SHEN_T2	2	2	0	0.85	0.4	-0.45	-0.09	-0.06	1	1	0	600	600	0
5/20/2024 12:24	57004	WHHI_T2	0	0	0	0	0	0	-0.27	-0.33	0	0	0	0	0	0
5/20/2024 12:24	57006	WHHI_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/20/2024 12:24	67803	WLAN_T1	3	1	-2	0.27	0.4	0.13	-0.75	-0.77	0	0	0	0	0	0
5/20/2024 12:25	67804	WLAN_T1	6	5	-1	0.15	0.16	0.01	-1.98	-1.94	0	0	0	0	0	0
5/20/2024 12:25	55105	WERT_T1	0	0	0	0	0	0	-0.34	-0.24	1	1	0	900	900	0
5/20/2024 12:25	67702	WERN_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/20/2024 12:25	45902	AUBU_T1	0	2	2	0	0.5	0.5	-0.55	-0.51	1	1	0	600	600	0
5/20/2024 12:25	56501	ROCK_T2	2	4	2	0.2	0.1	-0.1	83.96	83.96	0	0	0	0	0	0
5/20/2024 12:25	56504	ROCK_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/20/2024 12:25	67803	WLAN_T1	3	1	-2	0.27	0.4	0.13	-0.75	-0.77	0	0	0	0	0	0
5/20/2024 12:25	67703	WERN_T2	1	1	0	0.6	0.5	-0.1	-0.01	-0.01	1	1	0	900	900	0
5/20/2024 12:26	45902	AUBU_T1	0	2	2	0	0.5	0.5	-1.66	-1.52	3	3	0	1800	1800	0
5/20/2024 12:26	62105	ELAN_T1	3	1	-2	0.4	0.2	-0.2	1.56	1.56	0	0	0	0	0	0
5/20/2024 12:26	48303	ORWI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/20/2024 12:26	67803	WLAN_T1	3	1	-2	0.27	0.4	0.13	-1.5	-1.54	0	0	0	0	0	0
5/20/2024 12:26	45901	AUBU_T1	0	0	0	0	0	0	2.18	2.16	0	0	0	0	0	0
5/20/2024 12:26	29402	BELT_T1	7	6	-1	1.39	1.72	0.33	0	0	0	0	0	0	0	0
5/20/2024 12:26	67804	WLAN_T1	6	5	-1	0.15	0.16	0.01	0	0	0	0	0	0	0	0
5/20/2024 12:26	48302	ORWI_T2	2	12	10	0.6	0.6	0	0	0	0	0	0	0	0	0
5/20/2024 12:26	62106	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/20/2024 12:26	67702	WERN_T2	1	1	0	0.5	0.5	0	-0.01	-0.01	0	0	0	0	0	0
5/20/2024 12:26	67703	WERN_T2	1	1	0	0.6	0.5	-0.1	-0.01	-0.01	1	1	0	900	900	0
5/20/2024 12:26	29401	BELT_T1	7	5	-2	0.41	0.54	0.13	0	0	0	0	0	0	0	0
5/20/2024 12:27	67803	WLAN_T1	3	1	-2	0.27	0.4	0.13	0	0	0	0	0	0	0	0
5/20/2024 12:27	14204	EALL_T2	1	1	0	0.3	0.2	-0.1	-0.08	-0.04	0	0	0	0	0	0
5/20/2024 12:27	67804	WLAN_T1	6	5	-1	0.15	0.16	0.01	-0.99	-0.97	0	0	0	0	0	0
5/20/2024 12:29	60101	COCA_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/20/2024 12:29	60102	COCA_T1	0	0	0	0	0	0	0.39	0.51	3	3	0	2100	2100	0
5/20/2024 12:30	42903	MIDD_T2	3	2	-1	1.1	0.45	-0.65	0	0	0	0	0	0	0	0
5/20/2024 12:30	42902	MIDD_T2	4	1	-3	0.35	1	0.65	-0.05	-0.2	0	0	0	0	0	0
5/20/2024 12:32	53901	HALI_T2	3	2	-1	0.27	0.35	0.08	0	0	0	0	0	0	0	0
5/20/2024 12:32	53903	HALI_T2	8	5	-3	0.71	0.98	0.27	-0.12	-0.12	0	0	0	0	0	0
5/20/2024 12:32	25402	LAHA_T2	2	1	-1	0.35	0.7	0.35	-0.58	-0.39	0	0	0	0	0	0
5/20/2024 12:32	53902	HALI_T2	3	3	0	2.17	2.03	-0.14	0	0	0	0	0	0	0	0
5/20/2024 12:34	42903	MIDD_T2	3	2	-1	1.1	0.45	-0.65	0	0	0	0	0	0	0	0
5/20/2024 12:34	42902	MIDD_T2	4	1	-3	0.35	1	0.65	-0.05	-0.2	0	0	0	0	0	0
5/20/2024 12:35	57304	MOAL_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/20/2024 12:35	57306	MOAL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/20/2024 12:35	57302	MOAL_T2	0	0	0	0	0	0	-1.37	-1.32	1	1	0	1200	1200	0
5/20/2024 12:35	57303	MOAL_T2	1	1	0	7.9	8.1	0.2	0	0	0	0	0	0	0	0
5/20/2024 12:35	66502	SMAN_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
5/20/2024 12:35	66504	SMAN_T2	0	0	0	0	0	0	-0.6	-0.54	0	0	0	0	0	0
5/20/2024 12:36	66502	SMAN_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
5/20/2024 12:36	66504	SMAN_T2	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
5/20/2024 12:36	55101	WERT_T1	0	0	0	0	0	0	-1.33	-1.25	3	3	0	2400	2400	0
5/20/2024 12:36	67401	WAKE_T2	3	4	1	0.27	0.3	0.03	-1.03	-1.06	0	0	0	0	0	0
5/20/2024 12:37	57003	WHHI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/20/2024 12:37	67402	WAKE_T2	0	0	0	0	0	0	0.46	0.49	1	1	0	600	600	0
5/20/2024 12:37	67803	WLAN_T1	1	1	0	0.4	0.2	-0.2	-0.75	-0.77	0	0	0	0	0	0
5/20/2024 12:37	57006	WHHI_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/20/2024 12:37	67401	WAKE_T2	3	4	1	0.27	0.3	0.03	0	0	0	0	0	0	0	0
5/20/2024 12:37	67804	WLAN_T1	4	6	2	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
5/20/2024 12:37	57001	WHHI_T2	0	24	24	0	0	0	-1.27	-1.25	1	1	0	900	900	0
5/20/2024 12:39	57003	WHHI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/20/2024 12:39	45902	AUBU_T1	1	1	0	0.5	0.3	-0.2	-0.51	-0.5	1	1	0	600	600	0
5/20/2024 12:39	57006	WHHI_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/20/2024 12:39	57001	WHHI_T2	0	24	24	0	0	0	-1.25	-1.15	1	1	0	900	900	0
5/20/2024 12:40	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 12:40	64101	REFR_T1	2	4	2	0.3	0.85	0.55	-0.06	-0.02	0	0	0	0	0	0
5/20/2024 12:41	29401	BELT_T1	4	6	2	0.63	0.43	-0.2	0	0	1	1	0	900	900	0
5/20/2024 12:41	29402	BELT_T1	6	3	-3	1.72	2.9	1.18	0	0	0	0	0	0	0	0
5/20/2024 12:42	29401	BELT_T1	4	6	2	0.63	0.43	-0.2	0	0	2	2	0	1800	1800	0
5/20/2024 12:42	29402	BELT_T1	6	3	-3	1.72	2.9	1.18	0	0	0	0	0	0	0	0
5/20/2024 12:43	46203	DANV_T2	0	4	4	0	0.38	0.38	-1.75	-1.74	0	0	0	0	0	0
5/20/2024 12:43	46206	DANV_T2	8	14	6	0.35	0.65	0.3	0	0	0	0	0	0	0	0
5/20/2024 12:44	52402	GRPA_T2	16	18	2	0.51	0.54	0.03	-0.92	-0.92	0	0	0	0	0	0
5/20/2024 12:44	52403	GRPA_T2	6	6	0	0.42	0.42	0	0	0	0	0	0	0	0	0
5/20/2024 12:44	29401	BELT_T1	4	6	2	0.63	0.43	-0.2	0	0	1	1	0	900	900	0
5/20/2024 12:44	29402	BELT_T1	6	3	-3	1.72	2.9	1.18	0	0	0	0	0	0	0	0
5/20/2024 12:45	67401	WAKE_T2	4	2	-2	0.28	0.4	0.12	0	0	0	0	0	0	0	0
5/20/2024 12:45	67402	WAKE_T2	0	0	0	0	0	0	0.49	0.53	1	1	0	600	600	0
5/20/2024 12:46	29402	BELT_T1	3	4	1	2.87	2.9	0.03	0	0	0	0	0	0	0	0
5/20/2024 12:46	29401	BELT_T1	5	4	-1	0.46	0.53	0.07	0	0	1	1	0	900	900	0
5/20/2024 12:46	64904	MILL_T1	0	1	1	0	0	0	0.69	0.75	0	0	0	0	0	0
5/20/2024 12:47	41204	KENM_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
5/20/2024 12:48	52402	GRPA_T2	16	23	7	0.5	0.47	-0.03	-0.92	-0.92	0	0	0	0	0	0
5/20/2024 12:48	52403	GRPA_T2	3	5	2	0.3	0.42	0.12	0	0	0	0	0	0	0	0
5/20/2024 12:48	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 12:48	63804	HEMP_T1	1	1	0	6.6	6.3	-0.3	-0.52	-0.53	0	0	0	0	0	0
5/20/2024 12:49	59002	MIFF_T1	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
5/20/2024 12:49	59001	MIFF_T1	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
5/20/2024 12:49	64904	MILL_T1	0	1	1	0	0	0	0.69	0.75	0	0	0	0	0	0
5/20/2024 12:49	59003	MIFF_T1	2	2	0	1.75	0	-1.75	-0.22	0.5	0	0	0	0	0	0
5/20/2024 12:51	54203	PENN_T1	18	18	0	0.3	0.37	0.07	0.5	0.58	0	0	0	0	0	0
5/20/2024 12:51	57401	SPAN_T1	2	2	0	0.25	1.35	1.1	-0.81	-0.82	1	1	0	600	600	0
5/20/2024 12:51	54201	PENN_T1	4	7	3	1.25	0.83	-0.42	0	0	0	0	0	0	0	0
5/20/2024 12:51	54206	PENN_T2	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
5/20/2024 12:51	57403	SPAN_T1	9	14	5	0.36	0.32	-0.04	0	0	0	0	0	0	0	0
5/20/2024 12:52	57403	SPAN_T1	9	14	5	0.36	0.32	-0.04	0.12	0.06	0	0	0	0	0	0
5/20/2024 12:52	54201	PENN_T1	4	7	3	1.25	0.83	-0.42	-0.66	-0.65	0	0	0	0	0	0
5/20/2024 12:52	57401	SPAN_T1	2	2	0	0.25	1.35	1.1	0	0	0	0	0	0	0	0
5/20/2024 12:52	54203	PENN_T1	18	18	0	0.3	0.37	0.07	0	0	0	0	0	0	0	0
5/20/2024 12:53	67605	WARW_T1	10	8	-2	0.4	0.51	0.11	-0.93	-0.92	0	0	0	0	0	0
5/20/2024 12:53	57403	SPAN_T1	9	14	5	0.36	0.32	-0.04	0.06	0.13	0	0	0	0	0	0
5/20/2024 12:53	57401	SPAN_T1	2	2	0	0.25	1.35	1.1	0	0	0	0	0	0	0	0
5/20/2024 12:53	67603	WARW_T1	2	2	0	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
5/20/2024 12:54	67402	WAKE_T2	0	0	0	0	0	0	0.53	0.55	1	1	0	600	600	0
5/20/2024 12:54	67401	WAKE_T2	4	2	-2	0.28	0.4	0.12	0	0	0	0	0	0	0	0
5/20/2024 12:54	57403	SPAN_T1	9	14	5	0.36	0.32	-0.04	0	0	0	0	0	0	0	0
5/20/2024 12:54	57401	SPAN_T1	2	2	0	0.25	1.35	1.1	-0.82	-0.83	1	1	0	600	600	0
5/20/2024 12:55	57401	SPAN_T1	2	2	0	0.25	1.35	1.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/20/2024 12:55	57006	WHHI_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/20/2024 12:55	57403	SPAN_T1	9	14	5	0.36	0.32	-0.04	0.06	0.13	0	0	0	0	0	0
5/20/2024 12:55	57003	WHHI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/20/2024 12:55	57001	WHHI_T2	0	0	0	0	0	0	-1.15	-1.12	1	1	0	900	900	0
5/20/2024 12:56	53502	EVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/20/2024 12:56	46003	BERW_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/20/2024 12:56	46002	BERW_T2	0	1	1	0	0.1	0.1	-0.91	-0.89	1	1	0	900	900	0
5/20/2024 12:56	46004	BERW_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/20/2024 12:56	53501	EVIL_T2	2	3	1	0.2	0.53	0.33	-1.47	-1.82	8	8	0	4600	4600	0
5/20/2024 12:57	66504	SMAN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/20/2024 12:57	66502	SMAN_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
5/20/2024 12:58	21203	ECAR_T1	2	2	0	0.8	0.4	-0.4	-0.08	-0.13	0	0	0	0	0	0
5/20/2024 13:00	53501	EVIL_T2	3	4	1	0.53	0.48	-0.05	-1.47	-1.82	8	8	0	4600	4600	0
5/20/2024 13:00	53502	EVIL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/20/2024 13:00	64704	LITI_T1	0	0	0	0	0	0	0.44	0.52	1	1	0	600	600	0
5/20/2024 13:01	53902	HALI_T2	3	3	0	2	2.27	0.27	0	0	0	0	0	0	0	0
5/20/2024 13:01	53901	HALI_T2	2	3	1	0.35	0.33	-0.02	-1.32	-1.29	0	0	0	0	0	0
5/20/2024 13:01	53903	HALI_T2	5	9	4	0.98	0.67	-0.31	0	0	0	0	0	0	0	0
5/20/2024 13:02	58402	MORO_T1	0	0	0	0	0	0	-0.96	-0.91	3	3	0	2400	2400	0
5/20/2024 13:02	58401	MORO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/20/2024 13:02	59301	MCAL_T1	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
5/20/2024 13:02	59302	MCAL_T1	0	0	0	0	0	0	0.17	-0.04	1	1	0	600	600	0
5/20/2024 13:03	58402	MORO_T1	0	0	0	0	0	0	-0.96	-0.91	3	3	0	2400	2400	0
5/20/2024 13:03	58401	MORO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/20/2024 13:04	57303	MOAL_T2	1	1	0	8.1	8.1	0	0	0	0	0	0	0	0	0
5/20/2024 13:04	16401	MOPO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/20/2024 13:04	57304	MOAL_T2	2	2	0	0.35	0.15	-0.2	-0.44	-0.43	0	0	0	0	0	0
5/20/2024 13:04	58401	MORO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/20/2024 13:04	58402	MORO_T1	0	0	0	0	0	0	-0.96	-0.91	3	3	0	2400	2400	0
5/20/2024 13:04	16402	MOPO_T1	1	1	0	0.8	1.2	0.4	0.14	0.14	0	0	0	0	0	0
5/20/2024 13:05	64101	REFR_T1	4	4	0	0.7	0.65	-0.05	-0.02	-0.01	0	0	0	0	0	0
5/20/2024 13:06	67203	TEHI_T1	3	3	0	0.47	0	-0.47	2.06	1.97	2	2	0	1200	1200	0
5/20/2024 13:07	64101	REFR_T1	4	4	0	0.7	0.65	-0.05	-0.05	-0.02	0	0	0	0	0	0
5/20/2024 13:08	64101	REFR_T1	4	4	0	0.7	0.65	-0.05	-0.01	-0.01	0	0	0	0	0	0
5/20/2024 13:11	67804	WLAN_T1	6	4	-2	0.15	0.2	0.05	0	0	0	0	0	0	0	0
5/20/2024 13:11	67803	WLAN_T1	1	3	2	0.1	0.2	0.1	-0.74	-0.7	0	0	0	0	0	0
5/20/2024 13:14	64101	REFR_T1	4	4	0	0.7	0.65	-0.05	-0.01	-0.01	0	0	0	0	0	0
5/20/2024 13:14	61801	EELI_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
5/20/2024 13:15	52403	GRPA_T2	2	4	2	0.3	0.38	0.08	0.3	0.32	0	0	0	0	0	0
5/20/2024 13:15	52402	GRPA_T2	22	18	-4	0.44	0.46	0.02	0	0	0	0	0	0	0	0
5/20/2024 13:17	59301	MCAL_T1	3	4	1	0.33	0.45	0.12	0	0	0	0	0	0	0	0
5/20/2024 13:17	40101	HUNT_T2	1	1	0	0.2	0.1	-0.1	-0.32	-0.34	0	0	0	0	0	0
5/20/2024 13:17	59302	MCAL_T1	0	0	0	0	0	0	-0.04	-0.02	1	1	0	600	600	0
5/20/2024 13:17	65603	QVIL_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
5/20/2024 13:17	65501	MOJO_T1	0	0	0	0	0	0	-0.81	-0.81	1	1	0	900	900	0
5/20/2024 13:21	67505	WEWI_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/20/2024 13:21	67605	WARW_T1	7	3	-4	0.54	0.9	0.36	-0.92	-0.93	0	0	0	0	0	0
5/20/2024 13:21	67603	WARW_T1	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/20/2024 13:21	67501	WEWI_T1	26	5	-21	0.3	0.74	0.44	-0.82	-0.82	1	1	0	600	600	0
5/20/2024 13:21	64101	REFR_T1	1	4	3	0.7	0.73	0.03	-0.01	-0.01	0	0	0	0	0	0
5/20/2024 13:22	64101	REFR_T1	1	4	3	0.7	0.73	0.03	-0.01	-0.01	0	0	0	0	0	0
5/20/2024 13:23	64101	REFR_T1	1	4	3	0.7	0.73	0.03	-0.02	0.28	0	0	0	0	0	0
5/20/2024 13:23	67501	WEWI_T1	26	5	-21	0.3	0.74	0.44	-0.82	-0.78	1	1	0	600	600	0
5/20/2024 13:23	67505	WEWI_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/20/2024 13:24	66504	SMAN_T2	0	0	0	0	0	0	-0.08	-0.01	0	0	0	0	0	0
5/20/2024 13:24	66502	SMAN_T2	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
5/20/2024 13:24	64101	REFR_T1	1	4	3	0.7	0.73	0.03	-0.01	0.09	0	0	0	0	0	0
5/20/2024 13:25	64101	REFR_T1	1	4	3	0.7	0.73	0.03	-0.01	0.09	0	0	0	0	0	0
5/20/2024 13:26	10901	COOP_T2	0	0	0	0	0	0	0.3	0.27	1	1	0	1200	1200	0
5/20/2024 13:26	10903	COOP_T2	1	1	0	1.3	0.7	-0.6	0	0	0	0	0	0	0	0
5/20/2024 13:27	17805	GILB_T2	1	1	0	0.3	0.3	0	0.25	0.25	0	0	0	0	0	0
5/20/2024 13:27	17804	GILB_T2	6	2	-4	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/20/2024 13:28	53902	HALI_T2	3	4	1	2	2	0	0	0	0	0	0	0	0	0
5/20/2024 13:28	53901	HALI_T2	1	4	3	0.5	0.43	-0.07	-2.55	-2.42	0	0	0	0	0	0
5/20/2024 13:28	53903	HALI_T2	5	12	7	0.78	0.76	-0.02	0	0	0	0	0	0	0	0
5/20/2024 13:28	17804	GILB_T2	6	2	-4	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/20/2024 13:28	17805	GILB_T2	1	1	0	0.3	0.3	0	0.25	0.25	0	0	0	0	0	0
5/20/2024 13:28	40101	HUNT_T2	1	1	0	0.2	0.1	-0.1	-0.34	-0.29	0	0	0	0	0	0
5/20/2024 13:30	53901	HALI_T2	3	4	1	0.33	0.43	0.1	-1.27	-1.21	0	0	0	0	0	0
5/20/2024 13:30	53903	HALI_T2	9	12	3	0.67	0.77	0.1	0	0	0	0	0	0	0	0
5/20/2024 13:30	17805	GILB_T2	1	1	0	0.3	0.1	-0.2	0.25	0.25	0	0	0	0	0	0
5/20/2024 13:30	17804	GILB_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
5/20/2024 13:30	53902	HALI_T2	3	4	1	2.23	2	-0.23	0	0	0	0	0	0	0	0
5/20/2024 13:31	53901	HALI_T2	3	4	1	0.33	0.43	0.1	-1.27	-1.21	0	0	0	0	0	0
5/20/2024 13:31	53902	HALI_T2	3	4	1	2.23	2	-0.23	0	0	0	0	0	0	0	0
5/20/2024 13:31	53903	HALI_T2	9	12	3	0.67	0.77	0.1	0	0	0	0	0	0	0	0
5/20/2024 13:32	53902	HALI_T2	3	4	1	2.23	2	-0.23	0	0	0	0	0	0	0	0
5/20/2024 13:32	53901	HALI_T2	3	4	1	0.33	0.43	0.1	-1.27	-1.21	0	0	0	0	0	0
5/20/2024 13:32	40101	HUNT_T2	1	0	-1	0.2	0.1	-0.1	-0.34	-0.29	0	0	0	0	0	0
5/20/2024 13:32	53903	HALI_T2	9	12	3	0.67	0.77	0.1	0	0	0	0	0	0	0	0
5/20/2024 13:34	65603	QVIL_T2	0	0	0	0	0	0	0.27	0.32	0	0	0	0	0	0
5/20/2024 13:34	58402	MORO_T1	0	0	0	0	0	0	-0.88	-0.85	3	3	0	2400	2400	0
5/20/2024 13:34	58401	MORO_T1	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/20/2024 13:35	56501	ROCK_T2	1	3	2	0.4	0.43	0.03	0	0	0	0	0	0	0	0
5/20/2024 13:35	56503	ROCK_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/20/2024 13:35	56504	ROCK_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/20/2024 13:36	54601	SUMM_T2	0	0	0	0	0	0	-1.53	-1.5	2	2	0	2100	2100	0
5/20/2024 13:37	51304	WIND_T2	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
5/20/2024 13:37	54601	SUMM_T2	0	0	0	0	0	0	-3.06	-2.99	4	4	0	4200	4200	0
5/20/2024 13:38	56503	ROCK_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/20/2024 13:38	67402	WAKE_T2	0	0	0	0	0	0	0.57	0.56	1	1	0	600	600	0
5/20/2024 13:38	56501	ROCK_T2	1	3	2	0.4	0.43	0.03	83.96	83.96	0	0	0	0	0	0
5/20/2024 13:38	67401	WAKE_T2	4	3	-1	0.38	0.5	0.12	0	0	0	0	0	0	0	0
5/20/2024 13:38	54601	SUMM_T2	0	0	0	0	0	0	-1.5	-1.51	2	2	0	2100	2100	0
5/20/2024 13:38	56504	ROCK_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/20/2024 13:39	51704	OBER_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/20/2024 13:39	42802	SELI_T1	0	0	0	0	0	0	-0.28	-0.3	1	1	0	900	900	0
5/20/2024 13:39	51702	OBER_T1	6	6	0	1.67	1.62	-0.05	-0.17	-0.18	0	0	0	0	0	0
5/20/2024 13:40	45901	AUBU_T1	0	0	0	0	0	0	2.29	2.35	0	0	0	0	0	0
5/20/2024 13:40	60901	DONG_T2	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
5/20/2024 13:40	54601	SUMM_T2	0	0	0	0	0	0	-2.99	-3.02	4	4	0	4200	4200	0
5/20/2024 13:40	58001	WCAR_T1	4	5	1	0.33	0.38	0.05	0	0	0	0	0	0	0	0
5/20/2024 13:40	60904	DONG_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/20/2024 13:40	45902	AUBU_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
5/20/2024 13:40	58003	WCAR_T1	3	3	0	0.57	0.63	0.06	0.41	0.41	1	1	0	600	600	0
5/20/2024 13:40	60902	DONG_T2	0	2	2	0	0.1	0.1	1.16	1.21	0	0	0	0	0	0
5/20/2024 13:41	52202	DEVO_T2	2	2	0	0.95	0.8	-0.15	-1.11	-1.14	0	0	0	0	0	0
5/20/2024 13:41	52204	DEVO_T2	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
5/20/2024 13:43	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.29	-0.29	0	0	0	0	0	0
5/20/2024 13:44	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.29	-0.29	0	0	0	0	0	0
5/20/2024 13:47	63401	HONY_T1	0	0	0	0	0	0	1.12	1.07	0	0	0	0	0	0
5/20/2024 13:47	63801	HEMP_T1	1	2	1	0.3	0.3	0	-0.24	-0.24	1	1	0	900	900	0
5/20/2024 13:47	63804	HEMP_T1	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
5/20/2024 13:50	54601	SUMM_T2	0	0	0	0	0	0	-1.5	-1.51	2	2	0	2100	2100	0
5/20/2024 13:50	58401	MORO_T1	1	1	0	0.3	0.1	-0.2	-1.2	-1.2	2	2	0	1500	1500	0
5/20/2024 13:51	58401	MORO_T1	1	1	0	0.3	0.1	-0.2	-2.4	-2.4	4	4	0	3000	3000	0
5/20/2024 13:51	57001	WHHI_T2	0	1	1	0	0	0	-1.06	-1.12	1	1	0	900	900	0
5/20/2024 13:51	57006	WHHI_T2	1	1	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
5/20/2024 13:51	58402	MORO_T1	0	0	0	0	0	0	-1.7	-1.66	6	6	0	4800	4800	0
5/20/2024 13:52	67603	WARW_T1	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
5/20/2024 13:52	67605	WARW_T1	3	4	1	0.9	0.75	-0.15	-0.91	-0.87	0	0	0	0	0	0
5/20/2024 13:53	67703	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/20/2024 13:53	67702	WERN_T2	1	1	0	0.8	0.6	-0.2	-0.02	0.08	0	0	0	0	0	0
5/20/2024 13:55	67702	WERN_T2	1	1	0	0.8	0.6	-0.2	-0.01	0.04	0	0	0	0	0	0
5/20/2024 13:55	29401	BELT_T1	4	7	3	0.28	0.43	0.15	0	0	1	1	0	900	900	0
5/20/2024 13:55	67703	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/20/2024 13:55	29402	BELT_T1	3	5	2	2.77	1.84	-0.93	0	0	0	0	0	0	0	0
5/20/2024 13:56	67401	WAKE_T2	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
5/20/2024 13:56	67402	WAKE_T2	0	0	0	0	0	0	0.56	0.59	1	1	0	600	600	0
5/20/2024 13:56	21206	ECAR_T2	1	1	0	7.2	7.2	0	0.47	0.43	0	0	0	0	0	0
5/20/2024 13:56	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 13:57	67702	WERN_T2	1	1	0	0.8	0.6	-0.2	-0.01	0.04	0	0	0	0	0	0
5/20/2024 13:57	67703	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/20/2024 13:59	17804	GILB_T2	2	1	-1	0.7	1	0.3	0	0	0	0	0	0	0	0
5/20/2024 13:59	29401	BELT_T1	4	7	3	0.28	0.43	0.15	0	0	1	1	0	900	900	0
5/20/2024 13:59	17805	GILB_T2	0	1	1	0	0.2	0.2	0.25	0.23	0	0	0	0	0	0
5/20/2024 13:59	29402	BELT_T1	3	5	2	2.77	1.84	-0.93	0	0	0	0	0	0	0	0
5/20/2024 14:00	29401	BELT_T1	7	5	-2	0.39	0.48	0.09	0	0	1	1	0	900	900	0
5/20/2024 14:00	29402	BELT_T1	4	4	0	2.25	2.2	-0.05	0	0	0	0	0	0	0	0
5/20/2024 14:00	17804	GILB_T2	1	2	1	1	0.2	-0.8	0	0	0	0	0	0	0	0
5/20/2024 14:00	17805	GILB_T2	1	1	0	0.1	0.2	0.1	0.25	0.23	0	0	0	0	0	0
5/20/2024 14:04	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-1.2	-1.16	2	2	0	1500	1500	0
5/20/2024 14:06	54601	SUMM_T2	0	0	0	0	0	0	-1.51	-1.51	2	2	0	2100	2100	0
5/20/2024 14:06	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-1.2	-1.16	2	2	0	1500	1500	0
5/20/2024 14:07	54601	SUMM_T2	0	0	0	0	0	0	-1.51	-1.51	2	2	0	2100	2100	0
5/20/2024 14:08	54601	SUMM_T2	0	0	0	0	0	0	-1.51	-1.44	2	2	0	2100	2100	0
5/20/2024 14:08	67502	WEWI_T2	1	3	2	1.2	0.53	-0.67	0.01	-0.03	0	0	0	0	0	0
5/20/2024 14:09	67502	WEWI_T2	1	3	2	1.2	0.53	-0.67	0.01	-0.03	0	0	0	0	0	0
5/20/2024 14:09	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 14:10	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/20/2024 14:10	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 14:12	45901	AUBU_T1	0	0	0	0	0	0	2.32	2.26	0	0	0	0	0	0
5/20/2024 14:12	67502	WEWI_T2	1	3	2	1.2	0.53	-0.67	0.01	-0.03	0	0	0	0	0	0
5/20/2024 14:12	45902	AUBU_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/20/2024 14:12	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 14:14	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 14:16	23202	HIRU_T2	3	2	-1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
5/20/2024 14:16	23203	HIRU_T2	1	1	0	0.3	0.1	-0.2	0.16	0.15	0	0	0	0	0	0
5/20/2024 14:22	64101	REFR_T1	2	3	1	0.9	0.87	-0.03	0.09	0.12	0	0	0	0	0	0
5/20/2024 14:25	53501	EVIL_T2	4	4	0	0.85	0.78	-0.07	-1.29	-1.29	5	5	0	2900	2900	0
5/20/2024 14:25	53502	EVIL_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/20/2024 14:26	64101	REFR_T1	2	3	1	0.9	0.87	-0.03	0.12	0.12	0	0	0	0	0	0
5/20/2024 14:29	53502	EVIL_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/20/2024 14:29	53501	EVIL_T2	4	4	0	0.85	0.78	-0.07	-1.29	-1.29	5	5	0	2900	2900	0
5/20/2024 14:30	53501	EVIL_T2	4	3	-1	0.7	0.97	0.27	-1.29	-1.29	5	5	0	2900	2900	0
5/20/2024 14:30	53502	EVIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/20/2024 14:31	17804	GILB_T2	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/20/2024 14:31	53502	EVIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/20/2024 14:31	17805	GILB_T2	1	0	-1	0.1	0	-0.1	0.29	0.24	0	0	0	0	0	0
5/20/2024 14:31	53501	EVIL_T2	4	3	-1	0.7	0.97	0.27	-2.58	-2.57	10	10	0	5800	5800	0
5/20/2024 14:33	42902	MIDD_T2	2	4	2	0.85	0.65	-0.2	-0.58	0.01	1	0	-1	600	0	-600
5/20/2024 14:33	42903	MIDD_T2	2	2	0	1.15	1.45	0.3	0	0	0	0	0	0	0	0
5/20/2024 14:37	65604	QVIL_T2	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
5/20/2024 14:38	64101	REFR_T1	3	2	-1	0.87	0.8	-0.07	0.06	0.07	0	0	0	0	0	0
5/20/2024 14:39	64101	REFR_T1	3	2	-1	0.87	0.8	-0.07	0.06	0.07	0	0	0	0	0	0
5/20/2024 14:41	64101	REFR_T1	3	2	-1	0.87	0.8	-0.07	0.17	0.21	0	0	0	0	0	0
5/20/2024 14:42	45501	DERR_T2	1	1	0	0.4	0.2	-0.2	0.78	0.81	2	2	0	1800	1800	0
5/20/2024 14:42	45502	DERR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/20/2024 14:42	64101	REFR_T1	3	2	-1	0.87	0.8	-0.07	0.06	0.07	0	0	0	0	0	0
5/20/2024 14:43	53903	HALI_T2	6	4	-2	0.53	0.78	0.25	-0.05	-0.04	0	0	0	0	0	0
5/20/2024 14:43	44502	HAMI_T2	1	1	0	2.2	2.5	0.3	0	0	0	0	0	0	0	0
5/20/2024 14:43	53902	HALI_T2	3	2	-1	2.17	2.7	0.53	0	0	0	0	0	0	0	0
5/20/2024 14:43	53901	HALI_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/20/2024 14:43	44505	HAMI_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
5/20/2024 14:44	45501	DERR_T2	1	1	0	0.4	0.2	-0.2	0.78	0.81	2	2	0	1800	1800	0
5/20/2024 14:44	45502	DERR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/20/2024 14:46	40101	HUNT_T2	0	1	1	0	0	0	-0.28	-0.26	0	0	0	0	0	0
5/20/2024 14:47	44505	HAMI_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
5/20/2024 14:47	44502	HAMI_T2	1	1	0	2.2	2.5	0.3	0	0	0	0	0	0	0	0
5/20/2024 15:01	52403	GRPA_T2	0	1	1	0	0	0	0.31	0.36	0	0	0	0	0	0
5/20/2024 15:01	40101	HUNT_T2	0	3	3	0	0	0	-0.26	-0.27	0	0	0	0	0	0
5/20/2024 15:02	63804	HEMP_T1	1	1	0	6.7	6.5	-0.2	-0.38	-0.33	0	0	0	0	0	0
5/20/2024 15:04	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 15:04	66504	SMAN_T2	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
5/20/2024 15:05	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 15:05	66504	SMAN_T2	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
5/20/2024 15:05	46902	MNTG_T2	6	13	7	0.12	0.15	0.03	0	0	0	0	0	0	0	0
5/20/2024 15:05	46901	MNTG_T2	3	4	1	0.1	0.28	0.18	0	0	0	0	0	0	0	0
5/20/2024 15:05	46903	MNTG_T2	48	92	44	0.38	0.33	-0.05	0.42	0.45	1	1	0	600	600	0
5/20/2024 15:06	15603	NSTR_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
5/20/2024 15:06	15601	NSTR_T2	3	3	0	0.73	0.73	0	0	0	0	0	0	0	0	0
5/20/2024 15:07	20403	ASHF_T2	2	4	2	0.3	0.28	-0.02	0.68	0.78	0	0	0	0	0	0
5/20/2024 15:07	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 15:07	64101	REFR_T1	1	2	1	1.3	0.55	-0.75	0.07	0.09	0	0	0	0	0	0
5/20/2024 15:07	20401	ASHF_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
5/20/2024 15:07	60201	ATGL_T2	0	0	0	0	0	0	0.53	0.53	1	1	0	300	300	0
5/20/2024 15:08	20401	ASHF_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
5/20/2024 15:08	64101	REFR_T1	1	2	1	1.3	0.55	-0.75	0.09	0.09	0	0	0	0	0	0
5/20/2024 15:08	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 15:08	20403	ASHF_T2	2	4	2	0.3	0.28	-0.02	0.78	0.73	0	0	0	0	0	0
5/20/2024 15:09	12606	MACA_T1	0	0	0	0	0	0	0.01	0.05	0	1	1	0	900	900
5/20/2024 15:09	46004	BERW_T2	0	0	0	0	0	0	0.77	0.8	0	0	0	0	0	0
5/20/2024 15:09	12605	MACA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/20/2024 15:10	64101	REFR_T1	1	2	1	1.3	0.55	-0.75	0.09	0.09	0	0	0	0	0	0
5/20/2024 15:13	12605	MACA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/20/2024 15:13	12606	MACA_T1	0	0	0	0	0	0	0.01	0.05	1	1	0	900	900	0
5/20/2024 15:17	67503	WEWI_T2	0	0	0	0	0	0	0.77	0.74	0	0	0	0	0	0
5/20/2024 15:17	67502	WEWI_T2	8	6	-2	0.39	0.4	0.01	0	0	0	0	0	0	0	0
5/20/2024 15:21	56504	ROCK_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/20/2024 15:21	56501	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/20/2024 15:21	48302	ORWI_T2	2	2	0	0.75	0.55	-0.2	-0.35	-0.36	0	0	0	0	0	0
5/20/2024 15:23	56504	ROCK_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/20/2024 15:23	56501	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/20/2024 15:24	56504	ROCK_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/20/2024 15:24	56501	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/20/2024 15:25	45601	WOOL_T1	0	0	0	0	0	0	-0.59	-0.5	1	1	0	1200	1200	0
5/20/2024 15:25	45602	WOOL_T1	5	1	-4	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/20/2024 15:26	67804	WLAN_T1	0	1	1	0	0	0	-0.69	-0.66	0	0	0	0	0	0
5/20/2024 15:27	45501	DERR_T2	1	1	0	0.4	0.1	-0.3	0.8	0.78	2	2	0	1800	1800	0
5/20/2024 15:29	17804	GILB_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
5/20/2024 15:29	17805	GILB_T2	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
5/20/2024 15:30	45501	DERR_T2	1	1	0	0.5	0	-0.5	0.8	0.78	2	2	0	1800	1800	0
5/20/2024 15:31	64902	MILL_T2	0	0	0	0	0	0	-0.21	-0.25	1	1	0	900	900	0
5/20/2024 15:32	59002	MIFF_T1	1	5	4	0.1	0.22	0.12	0	0	0	0	0	0	0	0
5/20/2024 15:32	59003	MIFF_T1	4	3	-1	0.98	0	-0.98	0.07	0.06	0	0	0	0	0	0
5/20/2024 15:40	29402	BELT_T1	1	1	0	7.9	8.1	0.2	0	0	0	0	0	0	0	0
5/20/2024 15:40	29401	BELT_T1	27	37	10	0.21	0.22	0.01	0	0	1	1	0	900	900	0
5/20/2024 15:42	29402	BELT_T1	1	1	0	7.9	8.1	0.2	0	0	0	0	0	0	0	0
5/20/2024 15:42	29401	BELT_T1	27	37	10	0.21	0.22	0.01	0	0	0	0	0	0	0	0
5/20/2024 15:44	61702	ELIZ_T2	0	0	0	0	0	0	-1.75	-1.7	2	2	0	1500	1500	0
5/20/2024 15:44	40101	HUNT_T2	2	5	3	0.3	0	-0.3	-0.25	-0.23	0	0	0	0	0	0
5/20/2024 15:45	29401	BELT_T1	34	32	-2	0.21	0.21	0	0	0	2	2	0	1800	1800	0
5/20/2024 15:45	29402	BELT_T1	1	1	0	8.1	7.9	-0.2	0	0	0	0	0	0	0	0
5/20/2024 15:46	29401	BELT_T1	34	32	-2	0.21	0.21	0	0	0	0	0	0	0	0	0
5/20/2024 15:46	29402	BELT_T1	1	1	0	8.1	7.9	-0.2	0	0	0	0	0	0	0	0
5/20/2024 15:48	29402	BELT_T1	1	1	0	8.1	7.9	-0.2	0	0	0	0	0	0	0	0
5/20/2024 15:48	29401	BELT_T1	34	32	-2	0.21	0.21	0	0	0	0	0	0	0	0	0
5/20/2024 15:53	56504	ROCK_T2	2	6	4	0.5	0.96	0.46	0	0	0	0	0	0	0	0
5/20/2024 15:53	56501	ROCK_T2	0	3	3	0	0.55	0.55	0	0	0	0	0	0	0	0
5/20/2024 15:55	64101	REFR_T1	1	0	-1	0.7	0	-0.7	0.16	0.12	0	0	0	0	0	0
5/20/2024 15:56	56802	BENV_T2	4	1	-3	0.48	0.7	0.22	-0.99	-1.01	0	0	0	0	0	0
5/20/2024 15:57	56801	BENV_T1	9	7	-2	0.76	0.93	0.17	-0.33	-0.31	1	1	0	600	600	0
5/20/2024 15:57	45601	WOOL_T1	0	0	0	0	0	0	-0.59	-0.56	1	1	0	1200	1200	0
5/20/2024 15:57	56803	BENV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/20/2024 15:57	45602	WOOL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/20/2024 15:57	56802	BENV_T2	4	1	-3	0.48	0.7	0.22	-1.98	-2.02	0	0	0	0	0	0
5/20/2024 15:58	56802	BENV_T2	4	1	-3	0.48	0.7	0.22	-0.99	-1.01	0	0	0	0	0	0
5/20/2024 15:58	10801	CHHI_T1	2	6	4	0.2	0.73	0.53	-1.63	-1.6	3	3	0	2100	2100	0
5/20/2024 16:01	12701	MACU_T1	0	2	2	0	0.4	0.4	0.22	0.21	0	0	0	0	0	0
5/20/2024 16:03	12701	MACU_T1	0	2	2	0	0.4	0.4	0.22	0.21	0	0	0	0	0	0
5/20/2024 16:03	56802	BENV_T2	1	1	0	0.7	0.7	0	-0.99	-1.01	0	0	0	0	0	0
5/20/2024 16:04	56802	BENV_T2	1	1	0	0.7	0.7	0	-0.99	-1.01	0	0	0	0	0	0
5/20/2024 16:05	24801	VALM_T1	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
5/20/2024 16:06	23001	SAJO_T1	1	0	-1	0.3	0	-0.3	0.22	0.34	0	0	0	0	0	0
5/20/2024 16:07	23001	SAJO_T1	1	0	-1	0.3	0	-0.3	0.22	0.34	0	0	0	0	0	0
5/20/2024 16:07	56504	ROCK_T2	5	5	0	1.14	0.5	-0.64	0	0	0	0	0	0	0	0
5/20/2024 16:07	56501	ROCK_T2	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
5/20/2024 16:08	64101	REFR_T1	0	0	0	0	0	0	0.12	0.16	0	0	0	0	0	0
5/20/2024 16:11	45501	DERR_T2	0	0	0	0	0	0	0.72	0.61	2	2	0	1800	1800	0
5/20/2024 16:15	40101	HUNT_T2	2	1	-1	0.5	0	-0.5	-0.24	-0.28	0	0	0	0	0	0
5/20/2024 16:16	40101	HUNT_T2	2	1	-1	0.5	0	-0.5	-0.24	-0.28	0	0	0	0	0	0
5/20/2024 16:17	23203	HIRU_T2	27	4	-23	0.14	0.1	-0.04	0.17	0.17	0	0	0	0	0	0
5/20/2024 16:17	23202	HIRU_T2	5	3	-2	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
5/20/2024 16:17	23201	HIRU_T2	10	4	-6	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/20/2024 16:23	67602	WARW_T2	0	0	0	0	0	0	0.08	-0.07	2	4	2	600	3000	2400
5/20/2024 16:23	44601	SALE_T2	0	0	0	0	0	0	0.72	0.28	1	1	0	600	600	0
5/20/2024 16:24	44601	SALE_T2	0	0	0	0	0	0	0.28	0.11	1	1	0	600	600	0
5/20/2024 16:25	67602	WARW_T2	0	0	0	0	0	0	0.04	-0.04	2	2	0	1500	1500	0
5/20/2024 16:26	24105	EHAZ_T1	4	4	0	5.43	6.1	0.67	0	0	0	0	0	0	0	0
5/20/2024 16:26	24104	EHAZ_T1	0	0	0	0	0	0	-0.84	-0.81	1	1	0	1200	1200	0
5/20/2024 16:26	24102	EHAZ_T1	6	1	-5	0.67	0.7	0.03	0	0	0	0	0	0	0	0
5/20/2024 16:28	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 16:28	21206	ECAR_T2	1	1	0	7.8	7.5	-0.3	-0.01	0.09	0	0	0	0	0	0
5/20/2024 16:28	20603	GRWO_T2	0	0	0	0	0	0	-0.48	-0.46	1	1	0	900	900	0
5/20/2024 16:29	13901	SEID_T1	0	0	0	0	0	0	-0.54	-0.55	1	1	0	1200	1200	0
5/20/2024 16:31	40101	HUNT_T2	1	0	-1	0.5	0	-0.5	-0.28	-0.3	0	0	0	0	0	0
5/20/2024 16:34	58102	NEKI_T1	1	1	0	1.2	1.5	0.3	-1.32	-1.4	1	1	0	1200	1200	0
5/20/2024 16:35	43202	MVIL_T2	1	1	0	0.8	0.6	-0.2	-0.39	-0.43	0	0	0	0	0	0
5/20/2024 16:35	67201	TEHI_T1	0	0	0	0	0	0	0.66	0.53	1	1	0	600	600	0
5/20/2024 16:35	50501	MECH_T1	4	4	0	0.68	0.4	-0.28	-1.4	-1.29	0	0	0	0	0	0
5/20/2024 16:35	67203	TEHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/20/2024 16:35	50502	MECH_T1	1	1	0	1.5	1.3	-0.2	-0.23	-0.14	2	2	0	2100	2100	0
5/20/2024 16:36	57403	SPAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/20/2024 16:36	57401	SPAN_T1	1	1	0	8.5	0	-8.5	-3.09	-3.12	3	3	0	1800	1800	0
5/20/2024 16:37	57403	SPAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/20/2024 16:37	57401	SPAN_T1	1	1	0	8.5	0	-8.5	-3.09	-3.12	3	3	0	1800	1800	0
5/20/2024 16:38	57401	SPAN_T1	1	1	0	8.5	0	-8.5	-1.04	-1.1	1	1	0	600	600	0
5/20/2024 16:38	65802	RTWN_T2	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
5/20/2024 16:38	57403	SPAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/20/2024 16:39	67602	WARW_T2	0	0	0	0	0	0	-0.07	-0.01	4	4	0	3000	3000	0
5/20/2024 16:40	56802	BENV_T2	1	3	2	0.6	0.33	-0.27	-1.07	-0.99	0	0	0	0	0	0
5/20/2024 16:41	67602	WARW_T2	0	0	0	0	0	0	-0.04	0	2	2	0	1500	1500	0
5/20/2024 16:41	56802	BENV_T2	1	3	2	0.6	0.33	-0.27	-1.07	-0.99	0	0	0	0	0	0
5/20/2024 16:44	57403	SPAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/20/2024 16:44	56803	BENV_T1	0	2	2	0	0	0	0.02	0.02	1	1	0	600	600	0
5/20/2024 16:44	56801	BENV_T1	5	3	-2	0.28	0.3	0.02	0	0	0	0	0	0	0	0
5/20/2024 16:44	57401	SPAN_T1	1	1	0	8.5	0	-8.5	-1.04	-1.1	1	1	0	600	600	0
5/20/2024 16:49	64801	MONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/20/2024 16:49	64802	MONE_T2	1	0	-1	0.1	0	-0.1	0.3	0.3	0	0	0	0	0	0
5/20/2024 16:51	43202	MVIL_T2	1	2	1	0.6	0.35	-0.25	-0.43	-0.49	0	0	0	0	0	0
5/20/2024 16:53	67501	WEWI_T1	1	0	-1	0.1	0	-0.1	-0.57	-0.52	1	1	0	600	600	0
5/20/2024 16:59	46801	HEPB_T2	0	27	27	0	0.43	0.43	0.25	0.27	0	0	0	0	0	0
5/20/2024 16:59	46803	HEPB_T2	0	18	18	0	0.24	0.24	0.67	0.69	0	0	0	0	0	0
5/20/2024 17:10	56802	BENV_T2	1	2	1	0.5	0.35	-0.15	-1	-0.97	0	0	0	0	0	0
5/20/2024 17:10	56801	BENV_T1	1	10	9	0.5	0.51	0.01	0	0	0	0	0	0	0	0
5/20/2024 17:10	56803	BENV_T1	2	2	0	0.35	0.5	0.15	0.03	0.02	1	1	0	600	600	0
5/20/2024 17:11	45501	DERR_T2	0	0	0	0	0	0	0.58	0.62	2	2	0	1800	1800	0
5/20/2024 17:15	45501	DERR_T2	0	0	0	0	0	0	0.58	0.62	2	2	0	1800	1800	0
5/20/2024 17:16	45501	DERR_T2	0	0	0	0	0	0	0.58	0.62	2	2	0	1800	1800	0
5/20/2024 17:21	65004	NEFF_T2	0	0	0	0	0	0	-0.63	-0.6	1	1	0	600	600	0
5/20/2024 17:22	59002	MIFF_T1	0	5	5	0	0.66	0.66	0	0	0	0	0	0	0	0
5/20/2024 17:22	59003	MIFF_T1	13	3	-10	1.05	0.35	-0.7	0.08	-1.5	0	0	0	0	0	0
5/20/2024 17:27	20603	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 17:27	20601	GRWO_T2	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
5/20/2024 17:30	29401	BELT_T1	24	20	-4	0.14	0.15	0.01	0	0	1	1	0	900	900	0
5/20/2024 17:30	20603	GRWO_T2	0	2	2	0	0.15	0.15	-0.48	-0.5	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/20/2024 17:30	29402	BELT_T1	1	1	0	7	7.2	0.2	0	0	0	0	0	0	0	0
5/20/2024 17:35	65001	NEFF_T2	0	0	0	0	0	0	-0.03	0.01	1	1	0	1200	1200	0
5/20/2024 17:41	29402	BELT_T1	1	1	0	7	7.2	0.2	0	0	0	0	0	0	0	0
5/20/2024 17:41	29401	BELT_T1	24	20	-4	0.14	0.15	0.01	0	0	1	1	0	900	900	0
5/20/2024 17:41	58006	WCAR_T2	0	0	0	0	0	0	-0.61	-0.57	0	0	0	0	0	0
5/20/2024 17:43	63305	GREE_T1	0	0	0	0	0	0	-3.48	-3.66	2	2	0	1800	1800	0
5/20/2024 17:45	25402	LAHA_T2	0	0	0	0	0	0	-0.6	-0.64	0	0	0	0	0	0
5/20/2024 17:45	25404	LAHA_T2	0	55	55	0	0.11	0.11	0	0	0	0	0	0	0	0
5/20/2024 17:46	25404	LAHA_T2	0	55	55	0	0.11	0.11	0	0	0	0	0	0	0	0
5/20/2024 17:46	25402	LAHA_T2	0	0	0	0	0	0	-1.19	-1.28	0	0	0	0	0	0
5/20/2024 17:49	11103	EGYP_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
5/20/2024 17:49	11102	EGYP_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
5/20/2024 17:52	56501	ROCK_T2	2	2	0	0.1	0.2	0.1	83.96	83.96	0	0	0	0	0	0
5/20/2024 17:52	11103	EGYP_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
5/20/2024 17:52	11102	EGYP_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
5/20/2024 17:53	67805	WLAN_T1	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
5/20/2024 18:11	22002	BOHE_T1	0	0	0	0	0	0	0.62	0.51	0	0	0	0	0	0
5/20/2024 18:11	61101	BERK_T5	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
5/20/2024 18:12	60802	BUCK_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
5/20/2024 18:12	29401	BELT_T1	1	21	20	0.1	0.13	0.03	0	0	1	1	0	900	900	0
5/20/2024 18:12	29402	BELT_T1	1	1	0	6.9	6.7	-0.2	0	0	0	0	0	0	0	0
5/20/2024 18:13	29402	BELT_T1	1	1	0	6.9	6.7	-0.2	0	0	0	0	0	0	0	0
5/20/2024 18:13	29401	BELT_T1	1	21	20	0.1	0.13	0.03	0	0	1	1	0	900	900	0
5/20/2024 18:15	63304	GREE_T1	0	0	0	0	0	0	-0.97	-1.12	0	0	0	0	0	0
5/20/2024 18:17	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/20/2024 18:17	46801	HEPB_T2	42	49	7	0.43	0.43	0	0.28	0.24	0	0	0	0	0	0
5/20/2024 18:17	63304	GREE_T1	0	0	0	0	0	0	-0.97	-1.12	0	0	0	0	0	0
5/20/2024 18:17	52403	GRPA_T2	18	21	3	0.98	1.11	0.13	0.31	0.29	0	0	0	0	0	0
5/20/2024 18:17	46803	HEPB_T2	25	39	14	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
5/20/2024 18:22	66503	SMAN_T2	0	0	0	0	0	0	0.9	0.85	0	0	0	0	0	0
5/20/2024 18:30	45501	DERR_T2	2	2	0	0.5	0.6	0.1	0.58	0.58	2	2	0	1800	1800	0
5/20/2024 18:31	45501	DERR_T2	2	2	0	0.5	0.6	0.1	0.58	0.58	2	2	0	1800	1800	0
5/20/2024 18:36	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 18:40	59101	WALK_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
5/20/2024 18:46	59002	MIFF_T1	2	5	3	0.15	0.22	0.07	0	0	0	0	0	0	0	0
5/20/2024 18:46	59003	MIFF_T1	5	17	12	1.02	1.55	0.53	-0.24	0.16	0	0	0	0	0	0
5/20/2024 18:52	66502	SMAN_T2	0	0	0	0	0	0	0.48	0.24	0	0	0	0	0	0
5/20/2024 18:52	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 19:10	29401	BELT_T1	14	23	9	0.14	0.13	-0.01	0	0	1	1	0	900	900	0
5/20/2024 19:10	29402	BELT_T1	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
5/20/2024 19:11	46001	BERW_T1	0	0	0	0	0	0	1.94	1.88	0	0	0	0	0	0
5/20/2024 19:12	29402	BELT_T1	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
5/20/2024 19:12	29401	BELT_T1	14	23	9	0.14	0.13	-0.01	0	0	1	1	0	900	900	0
5/20/2024 19:15	29401	BELT_T1	7	31	24	0.11	0.17	0.06	0	0	1	1	0	900	900	0
5/20/2024 19:15	12006	HATF_T1	0	0	0	0	0	0	0.74	0.71	1	1	0	1200	1200	0
5/20/2024 19:15	29402	BELT_T1	1	1	0	6.5	6.8	0.3	0	0	0	0	0	0	0	0
5/20/2024 19:15	12002	HATF_T1	1	1	0	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
5/20/2024 19:16	46505	LOHA_T1	0	0	0	0	0	0	-0.23	0.4	1	0	-1	600	0	-600
5/20/2024 19:16	46501	LOHA_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/20/2024 19:16	46506	LOHA_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
5/20/2024 19:19	55002	NEWP_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
5/20/2024 19:19	13501	MCMI_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
5/20/2024 19:19	55001	NEWP_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
5/20/2024 19:22	59101	WALK_T2	0	0	0	0	0	0	-0.26	-0.3	0	0	0	0	0	0
5/20/2024 19:24	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 19:24	14702	TREX_T2	0	0	0	0	0	0	1.29	1.18	0	0	0	0	0	0
5/20/2024 19:24	10102	ALLE_T2	1	1	0	7.4	7.3	-0.1	0	0	0	0	0	0	0	0
5/20/2024 19:30	17805	GILB_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
5/20/2024 19:34	52501	PROG_T1	0	0	0	0	0	0	0.95	0.93	1	1	0	300	300	0
5/20/2024 19:35	24205	PROV_T3	0	4	4	0	0.73	0.73	0	0	0	0	0	0	0	0
5/20/2024 19:35	24201	PROV_T3	1	1	0	7.1	6.8	-0.3	-0.99	-0.98	1	1	0	1200	1200	0
5/20/2024 19:35	24204	PROV_T3	1	1	0	6.2	5.9	-0.3	0	0	0	0	0	0	0	0
5/20/2024 19:37	56501	ROCK_T2	1	5	4	0.2	0.32	0.12	83.96	83.96	0	0	0	0	0	0
5/20/2024 19:38	59201	THOM_T1	4	7	3	0.2	0.24	0.04	0	0	0	0	0	0	0	0
5/20/2024 19:38	14404	SSLA_T1	1	1	0	4.6	4.7	0.1	0.17	0.13	0	0	0	0	0	0
5/20/2024 19:38	52501	PROG_T1	0	0	0	0	0	0	0.93	1.02	1	1	0	300	300	0
5/20/2024 19:38	59202	THOM_T1	13	24	11	0.16	0.19	0.03	0	0	0	0	0	0	0	0
5/20/2024 19:39	57001	WHHI_T2	0	0	0	0	0	0	-1.28	-1.29	1	1	0	900	900	0
5/20/2024 19:45	54505	ENOL_T2	0	0	0	0	0	0	-0.87	-0.92	1	1	0	600	600	0
5/20/2024 19:51	24802	VALM_T1	0	0	0	0	0	0	3.56	3.57	0	0	0	0	0	0
5/20/2024 19:58	60101	COCA_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
5/20/2024 20:06	52501	PROG_T1	0	0	0	0	0	0	1.02	0.91	1	1	0	300	300	0
5/20/2024 20:07	67002	STHI_T2	0	0	0	0	0	0	1.18	1.15	0	0	0	0	0	0
5/20/2024 20:10	67002	STHI_T2	0	0	0	0	0	0	1.15	1.1	0	0	0	0	0	0
5/20/2024 20:11	67002	STHI_T2	0	0	0	0	0	0	1.15	1.1	0	0	0	0	0	0
5/20/2024 20:12	67002	STHI_T2	0	0	0	0	0	0	1.15	1.1	0	0	0	0	0	0
5/20/2024 20:13	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 20:20	47802	MOCA_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
5/20/2024 20:44	16301	ALPA_T1	0	1	1	0	0.2	0.2	0.26	0.12	0	0	0	0	0	0
5/20/2024 20:52	13501	MCMI_T1	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
5/20/2024 21:02	28403	HART_T2	0	0	0	0	0	0	-0.75	-0.79	1	1	0	900	900	0
5/20/2024 21:08	57304	MOAL_T2	1	1	0	0.2	0	-0.2	-0.11	-0.21	0	0	0	0	0	0
5/20/2024 21:08	57303	MOAL_T2	1	1	0	6.9	7.3	0.4	0	0	0	0	0	0	0	0
5/20/2024 21:11	14802	TREI_T2	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
5/20/2024 21:29	67203	TEHI_T1	0	0	0	0	0	0	1.68	1.63	3	3	0	2100	2100	0
5/20/2024 21:33	47001	HUGH_T2	0	0	0	0	0	0	-1.1	-1.22	0	0	0	0	0	0
5/20/2024 21:35	53901	HALI_T2	1	1	0	0.6	0.8	0.2	-1.28	-1.23	0	0	0	0	0	0
5/20/2024 21:35	53903	HALI_T2	2	2	0	1.35	1.55	0.2	0	0	0	0	0	0	0	0
5/20/2024 21:35	53902	HALI_T2	1	1	0	5.8	5.4	-0.4	0	0	0	0	0	0	0	0
5/20/2024 21:36	47001	HUGH_T2	0	0	0	0	0	0	-0.55	-0.61	0	0	0	0	0	0
5/20/2024 21:43	29402	BELT_T1	1	1	0	7.2	7.4	0.2	0	0	0	0	0	0	0	0
5/20/2024 21:43	29401	BELT_T1	33	0	-33	0.19	0	-0.19	0	0	1	1	0	900	900	0
5/20/2024 21:48	24105	EHAZ_T1	4	4	0	6.1	6.08	-0.02	0	0	0	0	0	0	0	0
5/20/2024 21:48	24103	EHAZ_T1	0	0	0	0	0	0	-0.53	-0.5	0	0	0	0	0	0
5/20/2024 21:48	24101	EHAZ_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
5/20/2024 21:48	24102	EHAZ_T1	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/20/2024 21:49	46302	ROHR_T1	4	5	1	1.2	1.66	0.46	0	0	0	0	0	0	0	0
5/20/2024 21:49	46301	ROHR_T1	0	109	109	0	0.2	0.2	0.5	0.46	0	0	0	0	0	0
5/20/2024 21:53	46302	ROHR_T1	4	5	1	1.2	1.66	0.46	0	0	0	0	0	0	0	0
5/20/2024 21:53	46301	ROHR_T1	0	109	109	0	0.2	0.2	0.25	0.23	0	0	0	0	0	0
5/20/2024 21:54	46302	ROHR_T1	4	5	1	1.2	1.66	0.46	0.2	0.22	0	0	0	0	0	0
5/20/2024 21:54	46301	ROHR_T1	0	109	109	0	0.2	0.2	0	0	0	0	0	0	0	0
5/20/2024 21:54	13704	SCHN_T2	0	0	0	0	0	0	-0.13	-0.21	0	0	0	0	0	0
5/20/2024 21:55	67204	TEHI_T2	0	0	0	0	0	0	-0.36	-0.42	0	0	0	0	0	0
5/20/2024 21:57	51108	CARL_T1	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
5/20/2024 21:57	46302	ROHR_T1	4	5	1	1.2	1.66	0.46	0.2	0.22	0	0	0	0	0	0
5/20/2024 21:57	46301	ROHR_T1	0	109	109	0	0.2	0.2	0	0	0	0	0	0	0	0
5/20/2024 21:57	42601	TUSC_T1	0	1	1	0	0	0	-0.16	-0.23	2	2	0	1800	1800	0
5/20/2024 21:59	42601	TUSC_T1	0	1	1	0	0	0	-0.16	-0.23	2	2	0	1800	1800	0
5/20/2024 22:02	16101	BING_T2	0	0	0	0	0	0	0.55	0.59	0	0	0	0	0	0
5/20/2024 22:03	46004	BERW_T2	0	0	0	0	0	0	0.39	0.26	0	0	0	0	0	0
5/20/2024 22:08	17805	GILB_T2	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
5/20/2024 22:09	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
5/20/2024 22:09	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
5/20/2024 22:09	15702	TANN_T2	1	1	0	0.5	0.2	-0.3	-0.35	-0.39	0	0	0	0	0	0
5/20/2024 22:09	29402	BELT_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
5/20/2024 22:09	65601	QVIL_T2	0	0	0	0	0	0	-0.99	-1.02	1	1	0	900	900	0
5/20/2024 22:10	54203	PENN_T1	18	18	0	1.12	0.69	-0.43	0	0	0	0	0	0	0	0
5/20/2024 22:10	15603	NSTR_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
5/20/2024 22:10	15601	NSTR_T2	3	3	0	0.23	0.83	0.6	0	0	0	0	0	0	0	0
5/20/2024 22:10	54201	PENN_T1	16	10	-6	0.85	0.8	-0.05	-0.7	-0.71	0	0	0	0	0	0
5/20/2024 22:10	63602	LETO_T1	0	0	0	0	0	0	-0.84	-0.88	1	1	0	600	600	0
5/20/2024 22:12	13501	MCMI_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
5/20/2024 22:12	17002	RIRO_T2	28	0	-28	0.14	0	-0.14	0.39	0.37	0	0	0	0	0	0
5/20/2024 22:13	25402	LAHA_T2	0	1	1	0	0.1	0.1	-0.88	-0.89	0	0	0	0	0	0
5/20/2024 22:13	23202	HIRU_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
5/20/2024 22:13	20403	ASHF_T2	0	0	0	0	0	0	0.29	0.2	0	0	0	0	0	0
5/20/2024 22:13	62607	ENGL_T1	0	0	0	0	0	0	-0.82	-0.85	1	1	0	300	300	0
5/20/2024 22:13	20401	ASHF_T2	4	5	1	0.4	0.44	0.04	0	0	0	0	0	0	0	0
5/20/2024 22:13	67703	WERN_T2	0	0	0	0	0	0	-0.67	-0.7	1	1	0	900	900	0
5/20/2024 22:13	17805	GILB_T2	0	0	0	0	0	0	-0.05	-0.13	0	0	0	0	0	0
5/20/2024 22:13	10805	CHHI_T2	4	5	1	2.2	2.08	-0.12	-1.11	-1.08	1	1	0	600	600	0
5/20/2024 22:13	29402	BELT_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
5/20/2024 22:13	61101	BERK_T5	0	0	0	0	0	0	-0.68	-0.72	0	0	0	0	0	0
5/20/2024 22:13	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/20/2024 22:13	25404	LAHA_T2	101	217	116	0.11	0.17	0.06	0	0	0	0	0	0	0	0
5/20/2024 22:13	51101	CARL_T1	0	0	0	0	0	0	-1.28	-1.26	1	1	0	600	600	0
5/20/2024 22:13	65503	MOJO_T2	1	0	-1	0.1	0	-0.1	-0.94	-0.97	1	1	0	900	900	0
5/20/2024 22:14	10805	CHHI_T2	4	5	1	2.2	2.08	-0.12	-1.11	-1.08	1	1	0	600	600	0
5/20/2024 22:14	45902	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 22:14	20603	GRMO_T2	22	30	8	0.16	0.15	-0.01	-0.57	0.38	1	0	-1	900	0	-900
5/20/2024 22:14	25402	LAHA_T2	0	1	1	0	0.1	0.1	-1.76	-1.78	0	0	0	0	0	0
5/20/2024 22:14	54505	ENOL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/20/2024 22:14	45901	AUBU_T1	0	0	0	0	0	0	2.35	2.28	0	0	0	0	0	0
5/20/2024 22:14	20401	ASHF_T2	4	5	1	0.4	0.44	0.04	-0.17	-0.24	0	0	0	0	0	0
5/20/2024 22:14	29402	BELT_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
5/20/2024 22:14	67502	NEWI_T2	99	0	-99	0.15	0	-0.15	-0.2	-0.27	0	0	0	0	0	0
5/20/2024 22:14	54503	ENOL_T2	0	0	0	0	0	0	-1.58	-1.63	1	1	0	600	600	0
5/20/2024 22:14	25404	LAHA_T2	101	217	116	0.11	0.17	0.06	0	0	0	0	0	0	0	0
5/20/2024 22:15	67803	WLAN_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
5/20/2024 22:15	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 22:15	52101	MEIS_T1	2	2	0	0.7	0.95	0.25	0	0	0	0	0	0	0	0
5/20/2024 22:15	29402	BELT_T1	1	1	0	7	7.5	0.5	0	0	0	0	0	0	0	0
5/20/2024 22:15	44601	SALE_T2	1	1	0	0.4	0.6	0.2	0.07	0.03	0	0	0	0	0	0
5/20/2024 22:15	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 22:15	67804	WLAN_T1	9	11	2	0.11	0.13	0.02	-0.85	-0.9	0	0	0	0	0	0
5/20/2024 22:15	67802	WLAN_T1	21	21	0	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
5/20/2024 22:15	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
5/20/2024 22:15	67801	WLAN_T1	10	12	2	0.12	0.12	0	0	0	0	0	0	0	0	0
5/20/2024 22:15	65004	NEFF_T2	0	0	0	0	0	0	-0.32	-0.38	0	0	0	0	0	0
5/20/2024 22:15	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
5/20/2024 22:15	17802	GILB_T1	0	0	0	0	0	0	0.02	0.11	0	0	0	0	0	0
5/20/2024 22:15	67805	WLAN_T1	452	453	1	0.33	0.34	0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/20/2024 22:16	67805	WLAN_T1	452	453	1	0.33	0.34	0.01	0	0	0	0	0	0	0	0
5/20/2024 22:16	48302	ORWI_T2	2	2	0	0.9	0.95	0.05	-0.01	-0.03	0	0	0	0	0	0
5/20/2024 22:16	67002	STHI_T2	0	0	0	0	0	0	0.89	0.88	0	0	0	0	0	0
5/20/2024 22:16	65502	MOJO_T2	0	0	0	0	0	0	-0.41	-0.51	1	1	0	900	900	0
5/20/2024 22:16	67804	WLAN_T1	9	11	2	0.11	0.13	0.02	0	0	0	0	0	0	0	0
5/20/2024 22:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 22:16	67802	WLAN_T1	21	21	0	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
5/20/2024 22:16	67503	WEWI_T2	0	0	0	0	0	0	0.69	0.66	0	0	0	0	0	0
5/20/2024 22:16	67801	WLAN_T1	10	12	2	0.12	0.12	0	0	0	0	0	0	0	0	0
5/20/2024 22:16	56802	BENV_T2	1	47	46	0.1	0.16	0.06	-1.22	-2.71	0	0	0	0	0	0
5/20/2024 22:16	10801	OHHI_T1	0	4	4	0	0.1	0.1	-1.74	-1.79	3	3	0	2100	2100	0
5/20/2024 22:16	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/20/2024 22:16	67803	WLAN_T1	2	2	0	0.15	0.15	0	-0.65	-0.69	0	0	0	0	0	0
5/20/2024 22:16	64702	LITI_T2	0	0	0	0	0	0	-0.41	-0.51	0	0	0	0	0	0
5/20/2024 22:16	29402	BELT_T1	1	1	0	7	7.5	0.5	0	0	0	0	0	0	0	0
5/20/2024 22:16	13905	SEID_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
5/20/2024 22:17	22002	BOHE_T1	1	5	4	0.1	0.12	0.02	0.38	0.36	0	0	0	0	0	0
5/20/2024 22:17	67801	WLAN_T1	10	12	2	0.12	0.12	0	0	0	0	0	0	0	0	0
5/20/2024 22:17	22003	BOHE_T1	31	85	54	0.13	0.17	0.04	0	0	0	0	0	0	0	0
5/20/2024 22:17	16102	BING_T2	0	0	0	0	0	0	0.15	0.07	0	0	0	0	0	0
5/20/2024 22:17	59201	THOM_T1	3	6	3	0.13	0.18	0.05	0	0	0	0	0	0	0	0
5/20/2024 22:17	17805	GILB_T2	0	0	0	0	0	0	-0.03	-0.07	0	0	0	0	0	0
5/20/2024 22:17	67804	WLAN_T1	9	11	2	0.11	0.13	0.02	0	0	0	0	0	0	0	0
5/20/2024 22:17	65201	PRIN_T4	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 22:17	22001	BOHE_T1	20	123	103	0.12	0.15	0.03	0	0	0	0	0	0	0	0
5/20/2024 22:17	67502	WEWI_T2	0	0	0	0	0	0	-0.4	-0.54	0	0	0	0	0	0
5/20/2024 22:17	67803	WLAN_T1	2	2	0	0.15	0.15	0	-0.65	-0.69	0	0	0	0	0	0
5/20/2024 22:17	67802	WLAN_T1	21	21	0	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
5/20/2024 22:17	59202	THOM_T1	14	30	16	0.14	0.19	0.05	0	0	0	0	0	0	0	0
5/20/2024 22:17	11103	EGYP_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
5/20/2024 22:17	55002	NEWP_T1	0	3	3	0	0.47	0.47	-0.21	-0.21	0	0	0	0	0	0
5/20/2024 22:17	67805	WLAN_T1	452	453	1	0.33	0.34	0.01	-1.29	-1.29	0	0	0	0	0	0
5/20/2024 22:17	56501	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/20/2024 22:18	67804	WLAN_T1	9	11	2	0.11	0.13	0.02	-0.85	-0.9	0	0	0	0	0	0
5/20/2024 22:18	46002	BERW_T2	0	0	0	0	0	0	-1.59	-1.55	1	1	0	900	900	0
5/20/2024 22:18	12606	MACA_T1	0	0	0	0	0	0	-0.13	-0.11	1	1	0	900	900	0
5/20/2024 22:18	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 22:18	23203	HIRU_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
5/20/2024 22:18	43301	WATS_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/20/2024 22:18	42902	MIDD_T2	31	30	-1	0.4	0.31	-0.09	-0.36	-0.41	0	0	0	0	0	0
5/20/2024 22:18	42903	MIDD_T2	2	2	0	2.05	2.1	0.05	0	0	0	0	0	0	0	0
5/20/2024 22:18	62105	ELAN_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
5/20/2024 22:18	14801	TREI_T2	0	0	0	0	0	0	0.57	0.52	0	0	0	0	0	0
5/20/2024 22:18	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/20/2024 22:18	57401	SPAN_T1	0	0	0	0	0	0	-2.14	-2.2	2	2	0	1200	1200	0
5/20/2024 22:18	57403	SPAN_T1	6	9	3	0.15	0.19	0.04	0	0	0	0	0	0	0	0
5/20/2024 22:18	64101	REFR_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
5/20/2024 22:18	45402	WBLO_T2	2	2	0	0.85	1.25	0.4	-1.56	-1.58	1	1	0	900	900	0
5/20/2024 22:18	10805	CHHI_T2	4	6	2	2.08	8	5.92	-1.11	-1.08	1	1	0	600	600	0
5/20/2024 22:18	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-1.15	-1.11	1	1	0	600	600	0
5/20/2024 22:18	66504	SMAN_T2	0	0	0	0	0	0	-0.6	-0.69	0	0	0	0	0	0
5/20/2024 22:18	63602	LETO_T1	0	0	0	0	0	0	-0.84	-0.88	1	1	0	600	600	0
5/20/2024 22:18	60201	ATGL_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
5/20/2024 22:18	67703	WERN_T2	0	0	0	0	0	0	-0.67	-0.7	1	1	0	900	900	0
5/20/2024 22:18	54503	ENOL_T2	0	0	0	0	0	0	-3.16	-3.26	2	2	0	1200	1200	0
5/20/2024 22:18	56501	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/20/2024 22:18	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/20/2024 22:18	67605	WARW_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 22:18	66505	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/20/2024 22:18	67803	WLAN_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
5/20/2024 22:18	42901	MIDD_T2	49	21	-28	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
5/20/2024 22:18	67603	WARW_T1	0	0	0	0	0	0	0.06	0	0	0	0	0	0	0
5/20/2024 22:18	54501	ENOL_T2	0	0	0	0	0	0	-0.34	-0.36	1	1	0	600	600	0
5/20/2024 22:18	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/20/2024 22:18	67801	WLAN_T1	10	12	2	0.12	0.12	0	0	0	0	0	0	0	0	0
5/20/2024 22:18	67802	WLAN_T1	21	21	0	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
5/20/2024 22:18	43302	WATS_T2	4	1	-3	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/20/2024 22:18	67805	WLAN_T1	452	453	1	0.33	0.34	0.01	0	0	0	0	0	0	0	0
5/20/2024 22:18	10102	ALLE_T2	1	1	0	7.3	7	-0.3	0	0	0	0	0	0	0	0
5/20/2024 22:19	58003	WCAR_T1	1	1	0	1.4	1.2	-0.2	0.73	0.68	0	0	0	0	0	0
5/20/2024 22:19	46302	ROHR_T1	5	23	18	1.58	0.54	-1.04	0.22	0.2	0	0	0	0	0	0
5/20/2024 22:19	67402	WAKE_T2	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
5/20/2024 22:19	60101	COCA_T1	0	0	0	0	0	0	0.41	0.36	0	0	0	0	0	0
5/20/2024 22:19	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/20/2024 22:19	26603	BROO_T1	0	0	0	0	0	0	0.45	0.4	0	0	0	0	0	0
5/20/2024 22:19	67703	WERN_T2	0	0	0	0	0	0	-0.67	-0.7	1	1	0	900	900	0
5/20/2024 22:19	67802	WLAN_T1	21	21	0	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
5/20/2024 22:19	67805	WLAN_T1	452	453	1	0.33	0.34	0.01	0	0	0	0	0	0	0	0
5/20/2024 22:19	48302	ORWI_T2	2	2	0	0.9	0.95	0.05	0	0	0	0	0	0	0	0
5/20/2024 22:19	46301	ROHR_T1	108	190	82	0.2	0.33	0.13	0	0	0	0	0	0	0	0
5/20/2024 22:19	58001	WCAR_T1	4	4	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/20/2024 22:19	67002	STHI_T2	0	0	0	0	0	0	0.89	0.88	0	0	0	0	0	0
5/20/2024 22:19	60802	BUCK_T2	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
5/20/2024 22:19	58006	WCAR_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
5/20/2024 22:19	16402	MOPO_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
5/20/2024 22:19	65001	NEFF_T2	0	0	0	0	0	0	-0.64	-0.67	1	1	0	1200	1200	0
5/20/2024 22:19	29402	BELT_T1	1	1	0	7	7.5	0.5	0	0	0	0	0	0	0	0
5/20/2024 22:19	11103	EGYP_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
5/20/2024 22:19	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 22:19	54601	SUMM_T2	1	0	-1	0.1	0	-0.1	-1.68	-1.71	2	2	0	2100	2100	0
5/20/2024 22:19	67803	WLAN_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
5/20/2024 22:19	42002	MNVL_T2	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 22:19	46001	BERW_T1	0	0	0	0	0	0	0.78	0.75	0	0	0	0	0	0
5/20/2024 22:19	42001	MNVL_T2	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
5/20/2024 22:19	25503	MADI_T1	97	130	33	0.36	0.48	0.12	-0.87	-0.87	0	0	0	0	0	0
5/20/2024 22:19	67401	WAKE_T2	24	93	69	0.15	0.21	0.06	0	0	0	0	0	0	0	0
5/20/2024 22:19	67605	WARW_T1	0	2	2	0	0.1	0.1	-1.03	-1.06	0	0	0	0	0	0
5/20/2024 22:19	64901	MILL_T1	67	70	3	0.37	0.32	-0.05	0	0	0	0	0	0	0	0
5/20/2024 22:19	55002	NEWP_T1	0	3	3	0	0.47	0.47	-0.21	-0.21	0	0	0	0	0	0
5/20/2024 22:19	43202	MVIL_T2	57	119	62	0.5	0.57	0.07	-0.68	-0.66	0	0	0	0	0	0
5/20/2024 22:19	13704	SOHN_T2	0	0	0	0	0	0	-0.21	-0.28	0	0	0	0	0	0
5/20/2024 22:19	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-3.45	-3.34	3	3	0	1800	1800	0
5/20/2024 22:19	54503	ENOL_T2	0	0	0	0	0	0	-3.16	-3.26	2	2	0	1200	1200	0
5/20/2024 22:19	67804	WLAN_T1	9	11	2	0.11	0.13	0.02	-1.7	-1.8	0	0	0	0	0	0
5/20/2024 22:19	64904	MILL_T1	222	194	-28	0.28	0.22	-0.06	-0.07	-0.13	0	0	0	0	0	0
5/20/2024 22:19	42201	SHEN_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
5/20/2024 22:19	59101	WALK_T2	0	25	25	0	0.17	0.17	-0.54	-0.56	0	0	0	0	0	0
5/20/2024 22:19	64801	MONE_T2	1	11	10	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
5/20/2024 22:19	67801	WLAN_T1	10	12	2	0.12	0.12	0	0	0	0	0	0	0	0	0
5/20/2024 22:19	23203	HIRU_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
5/20/2024 22:19	64802	MONE_T2	0	6	6	0	0.12	0.12	0.3	0.29	0	0	0	0	0	0
5/20/2024 22:20	17805	GILB_T2	0	0	0	0	0	0	-0.03	-0.07	0	0	0	0	0	0
5/20/2024 22:20	52401	GRPA_T2	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
5/20/2024 22:20	56803	BENV_T1	1	0	-1	0.2	0	-0.2	-0.06	-0.07	0	0	0	0	0	0
5/20/2024 22:20	53903	HALI_T2	2	2	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
5/20/2024 22:20	10805	CHHI_T2	4	6	2	2.08	8	5.92	-2.22	-2.16	2	2	0	1200	1200	0
5/20/2024 22:20	64101	REFR_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
5/20/2024 22:20	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/20/2024 22:20	57401	SPAN_T1	0	0	0	0	0	0	-1.07	-1.1	1	1	0	600	600	0
5/20/2024 22:20	67804	WLAN_T1	9	11	2	0.11	0.13	0.02	0	0	0	0	0	0	0	0
5/20/2024 22:20	67801	WLAN_T1	10	12	2	0.12	0.12	0	0	0	0	0	0	0	0	0
5/20/2024 22:20	67803	WLAN_T1	2	2	0	0.15	0.15	0	-0.65	-0.69	0	0	0	0	0	0
5/20/2024 22:20	66703	STRA_T1	6	118	112	0.38	0.33	-0.05	-0.19	-0.25	0	0	0	0	0	0
5/20/2024 22:20	10801	OHHI_T1	0	4	4	0	0.1	0.1	-1.74	-1.79	3	3	0	2100	2100	0
5/20/2024 22:20	53901	HALI_T2	1	1	0	0.2	0.4	0.2	-3.97	-4.04	0	0	0	0	0	0
5/20/2024 22:20	53601	DALM_T2	0	1	1	0	1	1	-0.4	-0.41	1	1	0	900	900	0
5/20/2024 22:20	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
5/20/2024 22:20	45501	DERR_T2	0	0	0	0	0	0	-0.16	-0.14	2	2	0	1800	1800	0
5/20/2024 22:20	67605	WARW_T1	0	2	2	0	0.1	0.1	-1.03	-1.06	0	0	0	0	0	0
5/20/2024 22:20	64702	LITI_T2	0	0	0	0	0	0	-0.41	-0.51	0	0	0	0	0	0
5/20/2024 22:20	67502	WEWI_T2	0	0	0	0	0	0	-0.2	-0.27	0	0	0	0	0	0
5/20/2024 22:20	12606	MACA_T1	0	0	0	0	0	0	-0.13	-0.11	1	1	0	900	900	0
5/20/2024 22:20	67002	STHI_T2	0	0	0	0	0	0	1.79	1.76	0	0	0	0	0	0
5/20/2024 22:20	54501	ENOL_T2	0	0	0	0	0	0	-0.34	-0.36	1	1	0	600	600	0
5/20/2024 22:20	52403	GRPA_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
5/20/2024 22:20	64902	MILL_T2	0	0	0	0	0	0	-0.35	-0.42	1	1	0	900	900	0
5/20/2024 22:20	56801	BENV_T1	8	11	3	0.29	0.61	0.32	0	0	0	0	0	0	0	0
5/20/2024 22:20	67604	WARW_T1	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
5/20/2024 22:20	56802	BENV_T2	1	47	46	0.1	0.16	0.06	-0.61	-1.36	0	0	0	0	0	0
5/20/2024 22:20	14404	SSLA_T1	1	1	0	5.6	5.4	-0.2	0.06	0.06	0	0	0	0	0	0
5/20/2024 22:20	52402	GRPA_T2	3	3	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
5/20/2024 22:20	45901	AUBU_T1	0	0	0	0	0	0	2.35	2.28	0	0	0	0	0	0
5/20/2024 22:20	67805	WLAN_T1	452	453	1	0.33	0.34	0.01	0	0	0	0	0	0	0	0
5/20/2024 22:20	57001	WHHI_T2	0	0	0	0	0	0	-0.13	-0.16	1	1	0	900	900	0
5/20/2024 22:20	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/20/2024 22:20	63305	GREE_T1	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
5/20/2024 22:20	67802	WLAN_T1	21	21	0	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
5/20/2024 22:20	57403	SPAN_T1	6	9	3	0.15	0.19	0.04	0	0	0	0	0	0	0	0
5/20/2024 22:20	62607	ENGL_T1	0	0	0	0	0	0	-0.82	-0.85	1	1	0	300	300	0
5/20/2024 22:20	52404	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/20/2024 22:20	23001	SAJO_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
5/20/2024 22:20	45502	DERR_T2	1	0	-1	8.1	0	-8.1	0	0	0	0	0	0	0	0
5/20/2024 22:20	58402	MORO_T1	0	0	0	0	0	0	-0.22	-0.22	2	2	0	1500	1500	0
5/20/2024 22:20	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 22:21	53901	HALI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/20/2024 22:21	60501	NMAN_T2	3	3	0	4.17	4.83	0.66	0	0	0	0	0	0	0	0
5/20/2024 22:21	10901	COOP_T2	0	0	0	0	0	0	-0.4	0.92	1	0	-1	1200	0	-1200
5/20/2024 22:21	66901	SHIL_T2	0	0	0	0	0	0	-1.09	-1.1	0	0	0	0	0	0
5/20/2024 22:21	61801	EELI_T2	0	0	0	0	0	0	-0.74	-0.84	1	1	0	600	600	0
5/20/2024 22:21	63202	MGTN_T2	0	0	0	0	0	0	0.21	-0.01	1	1	0	900	900	0
5/20/2024 22:21	60502	NMAN_T2	0	0	0	0	0	0	-0.29	-0.34	0	0	0	0	0	0
5/20/2024 22:21	45502	DERR_T2	1	0	-1	8.1	0	-8.1	0	0	0	0	0	0	0	0
5/20/2024 22:21	44601	SALE_T2	1	1	0	0.4	0.6	0.2	0.07	0.03	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/20/2024 22:21	64702	LITI_T2	0	0	0	0	0	0	-0.41	-0.51	0	0	0	0	0	0
5/20/2024 22:21	45501	DERR_T2	0	0	0	0	0	0	-0.16	-0.14	2	2	0	1800	1800	0
5/20/2024 22:21	53903	HALI_T2	2	2	0	1.2	1	-0.2	-0.09	-0.1	0	0	0	0	0	0
5/20/2024 22:21	67002	STHI_T2	0	0	0	0	0	0	0.89	0.88	0	0	0	0	0	0
5/20/2024 22:21	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/20/2024 22:21	10903	COOP_T2	22	0	-22	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/20/2024 22:21	56801	BENV_T1	8	11	3	0.29	0.61	0.32	-0.3	-0.33	1	1	0	600	600	0
5/20/2024 22:21	56802	BENV_T2	1	47	46	0.1	0.16	0.06	-1.22	-2.71	0	0	0	0	0	0
5/20/2024 22:21	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-1.15	-1.11	1	1	0	600	600	0
5/20/2024 22:21	57401	SPAN_T1	0	0	0	0	0	0	-1.07	-1.1	1	1	0	600	600	0
5/20/2024 22:21	57304	MOAL_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
5/20/2024 22:21	67602	WARW_T2	0	0	0	0	0	0	0.79	0.77	0	0	0	0	0	0
5/20/2024 22:21	54601	SUMM_T2	1	0	-1	0.1	0	-0.1	-1.68	-1.71	2	2	0	2100	2100	0
5/20/2024 22:21	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
5/20/2024 22:21	29402	BELT_T1	1	1	0	7	7.5	0.5	0	0	0	0	0	0	0	0
5/20/2024 22:21	57403	SPAN_T1	6	9	3	0.15	0.19	0.04	0	0	0	0	0	0	0	0
5/20/2024 22:21	60101	COCA_T1	0	0	0	0	0	0	0.41	0.36	0	0	0	0	0	0
5/20/2024 22:21	57303	MOAL_T2	1	1	0	7.9	8	0.1	0	0	0	0	0	0	0	0
5/20/2024 22:21	56803	BENV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/20/2024 22:22	67605	WARW_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 22:22	56501	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/20/2024 22:22	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
5/20/2024 22:22	57403	SPAN_T1	6	9	3	0.15	0.19	0.04	0.12	0.11	0	0	0	0	0	0
5/20/2024 22:22	44502	HAMI_T2	1	1	0	2.9	2.8	-0.1	-0.76	-0.78	0	0	0	0	0	0
5/20/2024 22:22	46206	DANV_T2	12	13	1	1.07	1.4	0.33	0	0	0	0	0	0	0	0
5/20/2024 22:22	60102	COCA_T1	0	0	0	0	0	0	0.51	0.45	2	2	0	1200	1200	0
5/20/2024 22:22	20401	ASHF_T2	5	3	-2	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
5/20/2024 22:22	15703	TANN_T2	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
5/20/2024 22:22	67501	WEWI_T1	6	43	37	0.1	0.18	0.08	-1.02	-1.01	1	1	0	600	600	0
5/20/2024 22:22	66505	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/20/2024 22:22	14204	EALL_T2	0	0	0	0	0	0	-0.01	0.06	0	0	0	0	0	0
5/20/2024 22:22	63401	HONY_T1	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
5/20/2024 22:22	50502	MECH_T1	1	1	0	1.8	1.8	0	0	-0.05	1	1	0	1200	1200	0
5/20/2024 22:22	57004	WHHI_T2	0	0	0	0	0	0	-0.48	-0.44	0	0	0	0	0	0
5/20/2024 22:22	63404	HONY_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 22:22	62601	ENGL_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
5/20/2024 22:22	67602	WARW_T2	0	0	0	0	0	0	0.79	0.77	0	0	0	0	0	0
5/20/2024 22:22	67803	WLAN_T1	2	2	0	0.15	0.15	0	-1.3	-1.38	0	0	0	0	0	0
5/20/2024 22:22	14702	TREX_T2	0	0	0	0	0	0	1.04	1.16	0	0	0	0	0	0
5/20/2024 22:22	62102	ELAN_T1	0	0	0	0	0	0	0.96	0.95	0	0	0	0	0	0
5/20/2024 22:22	52402	GRPA_T2	3	3	0	0.4	0.43	0.03	-0.74	-0.77	0	0	0	0	0	0
5/20/2024 22:22	63305	GREE_T1	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
5/20/2024 22:22	67401	WAKE_T2	24	93	69	0.15	0.21	0.06	-0.97	-0.99	0	0	0	0	0	0
5/20/2024 22:22	54201	PENN_T1	10	9	-1	0.78	0.87	0.09	-0.7	-0.71	0	0	0	0	0	0
5/20/2024 22:22	67805	WLAN_T1	452	453	1	0.33	0.34	0.01	0	0	0	0	0	0	0	0
5/20/2024 22:22	52101	MEIS_T1	2	2	0	0.7	0.95	0.25	0	0	0	0	0	0	0	0
5/20/2024 22:22	50501	MECH_T1	3	4	1	0.3	0.43	0.13	0	0	0	0	0	0	0	0
5/20/2024 22:22	53501	EVIL_T2	1	2	1	0.7	1.05	0.35	-0.72	-0.67	1	1	0	600	600	0
5/20/2024 22:22	67804	WLAN_T1	9	11	2	0.11	0.13	0.02	0	0	0	0	0	0	0	0
5/20/2024 22:22	45602	WOOL_T1	3	3	0	0.7	0.53	-0.17	0.7	0.68	0	0	0	0	0	0
5/20/2024 22:22	46203	DANV_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
5/20/2024 22:22	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-2.3	-2.23	2	2	0	1200	1200	0
5/20/2024 22:22	52401	GRPA_T2	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
5/20/2024 22:22	67802	WLAN_T1	21	21	0	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
5/20/2024 22:22	67604	WARW_T1	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
5/20/2024 22:22	66502	SMAN_T2	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
5/20/2024 22:22	20403	ASHF_T2	0	0	0	0	0	0	0.29	0.2	0	0	0	0	0	0
5/20/2024 22:22	54203	PENN_T1	18	18	0	0.69	0.8	0.11	0	0	0	0	0	0	0	0
5/20/2024 22:22	52404	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/20/2024 22:22	67801	WLAN_T1	10	12	2	0.12	0.12	0	0	0	0	0	0	0	0	0
5/20/2024 22:22	54601	SUMM_T2	1	0	-1	0.1	0	-0.1	-1.68	-1.71	2	2	0	2100	2100	0
5/20/2024 22:22	64902	MILL_T2	0	0	0	0	0	0	-0.35	-0.42	1	1	0	900	900	0
5/20/2024 22:22	47203	FAXO_T2	0	0	0	0	0	0	-1.19	-1.21	1	1	0	1200	1200	0
5/20/2024 22:22	15702	TANN_T2	1	1	0	0.6	0	-0.6	-0.7	-0.78	0	0	0	0	0	0
5/20/2024 22:23	66703	STRA_T1	6	118	112	0.38	0.33	-0.05	-0.25	-0.28	0	0	0	0	0	0
5/20/2024 22:23	64101	REFR_T1	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
5/20/2024 22:23	54505	ENOL_T2	0	0	0	0	0	0	-1.06	-1.11	1	1	0	600	600	0
5/20/2024 22:23	67804	WLAN_T1	9	11	2	0.11	0.13	0.02	0	0	0	0	0	0	0	0
5/20/2024 22:23	67805	WLAN_T1	452	453	1	0.33	0.34	0.01	0	0	0	0	0	0	0	0
5/20/2024 22:23	24102	EHAZ_T1	2	3	1	1.2	1.9	0.7	0	0	0	0	0	0	0	0
5/20/2024 22:23	58006	WCAR_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
5/20/2024 22:23	54601	SUMM_T2	1	0	-1	0.1	0	-0.1	-1.71	-1.67	2	2	0	2100	2100	0
5/20/2024 22:23	57401	SPAN_T1	0	0	0	0	0	0	-2.2	-2.26	2	2	0	1200	1200	0
5/20/2024 22:23	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
5/20/2024 22:23	67401	WAKE_T2	24	93	69	0.15	0.21	0.06	0	0	0	0	0	0	0	0
5/20/2024 22:23	13302	ORVI_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
5/20/2024 22:23	56802	BENV_T2	1	47	46	0.1	0.16	0.06	-1.36	-1.37	0	0	0	0	0	0
5/20/2024 22:23	66504	SMAN_T2	0	0	0	0	0	0	-0.23	-0.28	0	0	0	0	0	0
5/20/2024 22:23	66502	SMAN_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
5/20/2024 22:23	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 22:23	24104	EHAZ_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	1200	1200	0
5/20/2024 22:23	67605	WARW_T1	0	2	2	0	0.1	0.1	-1.06	-1.09	0	0	0	0	0	0
5/20/2024 22:23	67802	WLAN_T1	21	21	0	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
5/20/2024 22:23	17804	GILB_T2	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
5/20/2024 22:23	60502	NMAN_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
5/20/2024 22:23	24201	PROV_T3	1	1	0	6.6	6.3	-0.3	-1.17	-1.2	1	1	0	1200	1200	0
5/20/2024 22:23	58001	WCAR_T1	4	4	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/20/2024 22:23	55002	NEWP_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
5/20/2024 22:23	66505	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/20/2024 22:23	67803	WLAN_T1	2	2	0	0.15	0.15	0	-0.69	-0.71	0	0	0	0	0	0
5/20/2024 22:23	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 22:23	24205	PROV_T3	1	1	0	1.1	1.6	0.5	0	0	0	0	0	0	0	0
5/20/2024 22:23	55001	NEWP_T1	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0
5/20/2024 22:23	60501	NMAN_T2	3	3	0	4.17	4.83	0.66	0	0	0	0	0	0	0	0
5/20/2024 22:23	58003	WCAR_T1	1	1	0	1.4	1.2	-0.2	0.68	0.69	0	0	0	0	0	0
5/20/2024 22:23	57302	MOAL_T2	0	0	0	0	0	0	-1.37	-1.37	1	1	0	1200	1200	0
5/20/2024 22:23	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
5/20/2024 22:23	20401	ASHF_T2	5	3	-2	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
5/20/2024 22:23	14404	SSLA_T1	1	1	0	5.6	5.4	-0.2	0.03	0.03	0	0	0	0	0	0
5/20/2024 22:23	62105	ELAN_T1	0	0	0	0	0	0	0.65	0.6	0	0	0	0	0	0
5/20/2024 22:23	24105	EHAZ_T1	4	4	0	6.15	5.8	-0.35	0	0	0	0	0	0	0	0
5/20/2024 22:23	24204	PROV_T3	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
5/20/2024 22:23	57403	SPAN_T1	6	9	3	0.15	0.19	0.04	0.22	0.22	0	0	0	0	0	0
5/20/2024 22:23	60101	COCA_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
5/20/2024 22:23	57303	MOAL_T2	1	1	0	7.9	8	0.1	0	0	0	0	0	0	0	0
5/20/2024 22:23	67801	WLAN_T1	10	12	2	0.12	0.12	0	0	0	0	0	0	0	0	0
5/20/2024 22:23	59302	MCAL_T1	0	1	1	0	0.3	0.3	-0.24	-0.25	1	1	0	600	600	0
5/20/2024 22:23	59301	MCAL_T1	2	5	3	1.15	0.7	-0.45	0	0	0	0	0	0	0	0
5/20/2024 22:23	67402	WAKE_T2	0	0	0	0	0	0	0.52	0.41	0	0	0	0	0	0
5/20/2024 22:23	21203	ECAR_T1	0	0	0	0	0	0	0.54	0.57	0	0	0	0	0	0
5/20/2024 22:23	53501	EVIL_T2	1	2	1	0.7	1.05	0.35	-0.67	-0.75	1	1	0	600	600	0
5/20/2024 22:23	52101	MEIS_T1	2	2	0	0.7	0.95	0.25	0	0	0	0	0	0	0	0
5/20/2024 22:24	44505	HAMI_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
5/20/2024 22:24	12002	HATF_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
5/20/2024 22:24	64101	REFR_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
5/20/2024 22:24	63304	GREE_T1	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
5/20/2024 22:24	56802	BENV_T2	1	47	46	0.1	0.16	0.06	-1.36	-1.37	0	0	0	0	0	0
5/20/2024 22:24	67401	WAKE_T2	24	93	69	0.15	0.21	0.06	-0.99	-1.01	0	0	0	0	0	0
5/20/2024 22:24	58003	WCAR_T1	1	1	0	1.4	1.2	-0.2	0.68	0.69	0	0	0	0	0	0
5/20/2024 22:24	66502	SMAN_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
5/20/2024 22:24	10801	CHHI_T1	0	4	4	0	0.1	0.1	-1.79	-1.82	3	3	0	2100	2100	0
5/20/2024 22:24	54201	PENN_T1	10	9	-1	0.78	0.87	0.09	0	0	0	0	0	0	0	0
5/20/2024 22:24	14403	SSLA_T1	0	0	0	0	0	0	0.7	0.66	0	0	0	0	0	0
5/20/2024 22:24	45501	DERR_T2	0	0	0	0	0	0	-0.28	-0.24	4	4	0	3600	3600	0
5/20/2024 22:24	46903	MNTG_T2	2	2	0	0.1	0.1	0	0.04	0.01	1	1	0	600	600	0
5/20/2024 22:24	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-1.11	-1.01	1	1	0	600	600	0
5/20/2024 22:24	66505	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/20/2024 22:24	64801	MONE_T2	1	11	10	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
5/20/2024 22:24	58401	MORO_T1	0	0	0	0	0	0	-1	-1.08	1	1	0	600	600	0
5/20/2024 22:24	44502	HAMI_T2	1	1	0	2.9	2.8	-0.1	0	0	0	0	0	0	0	0
5/20/2024 22:24	64802	MONE_T2	0	6	6	0	0.12	0.12	0.29	0.26	0	0	0	0	0	0
5/20/2024 22:24	12006	HATF_T1	0	0	0	0	0	0	0.15	0.21	1	1	0	1200	1200	0
5/20/2024 22:24	55002	NEWP_T1	0	3	3	0	0.47	0.47	-0.21	-0.24	0	0	0	0	0	0
5/20/2024 22:24	45502	DERR_T2	1	0	-1	8.1	0	-8.1	0	0	0	0	0	0	0	0
5/20/2024 22:24	43201	MVIL_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
5/20/2024 22:24	43202	MVIL_T2	57	119	62	0.5	0.57	0.07	0	0	0	0	0	0	0	0
5/20/2024 22:24	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0.53	0.51	0	0	0	0	0	0
5/20/2024 22:24	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 22:24	59101	WALK_T2	0	25	25	0	0.17	0.17	-0.56	-0.53	0	0	0	0	0	0
5/20/2024 22:24	58001	WCAR_T1	4	4	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/20/2024 22:24	54206	PENN_T2	0	0	0	0	0	0	0.07	0.02	0	0	0	0	0	0
5/20/2024 22:24	14404	SSLA_T1	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
5/20/2024 22:24	53901	HALI_T2	1	1	0	0.2	0.4	0.2	-1.35	-1.35	0	0	0	0	0	0
5/20/2024 22:24	53903	HALI_T2	2	2	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
5/20/2024 22:24	46801	HEPB_T2	3	2	-1	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
5/20/2024 22:24	54203	PENN_T1	18	18	0	0.69	0.8	0.11	0.29	0.22	0	0	0	0	0	0
5/20/2024 22:24	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
5/20/2024 22:25	57401	SPAN_T1	0	0	0	0	0	0	-2.2	-2.26	2	2	0	1200	1200	0
5/20/2024 22:25	26603	BROO_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
5/20/2024 22:25	46504	LOHA_T1	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
5/20/2024 22:25	65502	MOJO_T2	0	0	0	0	0	0	-0.51	-0.46	1	1	0	900	900	0
5/20/2024 22:25	46506	LOHA_T1	0	0	0	0	0	0	-0.62	-0.68	0	0	0	0	0	0
5/20/2024 22:25	29402	BELT_T1	1	1	0	7	7.5	0.5	0	0	0	0	0	0	0	0
5/20/2024 22:25	52402	GRPA_T2	3	3	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
5/20/2024 22:25	45501	DERR_T2	0	0	0	0	0	0	-0.28	-0.24	4	4	0	3600	3600	0
5/20/2024 22:25	44505	HAMI_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
5/20/2024 22:25	45502	DERR_T2	1	0	-1	8.1	0	-8.1	0	0	0	0	0	0	0	0
5/20/2024 22:25	67602	WARW_T2	0	0	0	0	0	0	0.77	0.74	0	0	0	0	0	0
5/20/2024 22:25	52403	GRPA_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
5/20/2024 22:25	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/20/2024 22:25	66505	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/20/2024 22:25	42901	MIDD_T2	49	21	-28	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
5/20/2024 22:25	42903	MIDD_T2	2	2	0	2.05	2.1	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/20/2024 22:25	56501	ROCK_T2	0	0	0	0	0	0	251.88	251.88	0	0	0	0	0	0
5/20/2024 22:25	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 22:25	45601	WOOL_T1	0	0	0	0	0	0	0.24	0.12	2	2	0	2400	2400	0
5/20/2024 22:25	54601	SUMM_T2	1	0	-1	0.1	0	-0.1	-1.71	-1.67	2	2	0	2100	2100	0
5/20/2024 22:25	57403	SPAN_T1	6	9	3	0.15	0.19	0.04	0.11	0.11	0	0	0	0	0	0
5/20/2024 22:25	62105	ELAN_T1	0	0	0	0	0	0	0.65	0.6	0	0	0	0	0	0
5/20/2024 22:25	58401	MORO_T1	0	0	0	0	0	0	-1	-1.08	1	1	0	600	600	0
5/20/2024 22:25	55002	NEWP_T1	0	3	3	0	0.47	0.47	-0.21	-0.24	0	0	0	0	0	0
5/20/2024 22:25	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
5/20/2024 22:25	64101	REFR_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
5/20/2024 22:25	53903	HALI_T2	2	2	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
5/20/2024 22:25	52401	GRPA_T2	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
5/20/2024 22:25	66703	STRA_T1	6	118	112	0.38	0.33	-0.05	-0.25	-0.28	0	0	0	0	0	0
5/20/2024 22:25	10805	CHHI_T2	4	6	2	2.08	8	5.92	-1.08	-1.14	1	1	0	600	600	0
5/20/2024 22:25	61801	EELI_T2	0	0	0	0	0	0	-1.67	-1.78	2	2	0	1200	1200	0
5/20/2024 22:25	12701	MACU_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
5/20/2024 22:25	44502	HAMI_T2	1	1	0	2.9	2.8	-0.1	0	0	0	0	0	0	0	0
5/20/2024 22:25	20603	GRWO_T2	30	7	-23	0.15	0.14	-0.01	0.38	0.36	0	0	0	0	0	0
5/20/2024 22:25	62602	ENGL_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
5/20/2024 22:25	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/20/2024 22:25	45602	WOOL_T1	3	3	0	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
5/20/2024 22:25	53901	HALI_T2	1	1	0	0.2	0.4	0.2	-1.35	-1.35	0	0	0	0	0	0
5/20/2024 22:25	42902	MIDD_T2	31	30	-1	0.4	0.31	-0.09	-0.41	-0.44	0	0	0	0	0	0
5/20/2024 22:25	52404	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/20/2024 22:25	66504	SMAN_T2	0	0	0	0	0	0	-0.23	-0.28	0	0	0	0	0	0
5/20/2024 22:26	45602	WOOL_T1	3	3	0	0.7	0.53	-0.17	0.68	0.59	0	0	0	0	0	0
5/20/2024 22:26	20603	GRWO_T2	30	7	-23	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
5/20/2024 22:26	58102	NEWL_T1	1	1	0	1	0.9	-0.1	-0.68	-0.81	0	0	0	0	0	0
5/20/2024 22:26	56501	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/20/2024 22:26	63804	HEMP_T1	1	1	0	5.1	5.6	0.5	-0.39	-0.39	0	0	0	0	0	0
5/20/2024 22:26	63801	HEMP_T1	0	0	0	0	0	0	-0.63	-0.67	1	1	0	900	900	0
5/20/2024 22:26	55002	NEWP_T1	0	3	3	0	0.47	0.47	-0.21	-0.24	0	0	0	0	0	0
5/20/2024 22:26	59101	WALK_T2	0	25	25	0	0.17	0.17	-0.56	-0.53	0	0	0	0	0	0
5/20/2024 22:26	67802	WLAN_T1	21	21	0	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
5/20/2024 22:26	67605	WARW_T1	0	2	2	0	0.1	0.1	-1.06	-1.09	0	0	0	0	0	0
5/20/2024 22:26	67804	WLAN_T1	9	11	2	0.11	0.13	0.02	-0.9	-0.93	0	0	0	0	0	0
5/20/2024 22:26	67801	WLAN_T1	10	12	2	0.12	0.12	0	0	0	0	0	0	0	0	0
5/20/2024 22:26	64101	REFR_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
5/20/2024 22:26	42201	SHEN_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
5/20/2024 22:26	42802	SELI_T1	0	0	0	0	0	0	-0.79	-0.84	1	1	0	900	900	0
5/20/2024 22:26	67803	WLAN_T1	2	2	0	0.15	0.15	0	-0.69	-0.71	0	0	0	0	0	0
5/20/2024 22:26	13704	SCHN_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
5/20/2024 22:26	20601	GRWO_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
5/20/2024 22:26	60101	COCA_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
5/20/2024 22:26	67805	WLAN_T1	452	453	1	0.33	0.34	0.01	0	0	0	0	0	0	0	0
5/20/2024 22:26	46001	BERW_T1	0	0	0	0	0	0	0.75	0.73	0	0	0	0	0	0
5/20/2024 22:26	12701	MACU_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
5/20/2024 22:27	53903	HALI_T2	2	2	0	1.2	1	-0.2	-0.1	-0.1	0	0	0	0	0	0
5/20/2024 22:27	43202	MVIL_T2	57	119	62	0.5	0.57	0.07	-0.66	-0.68	0	0	0	0	0	0
5/20/2024 22:27	59003	MIFF_T1	1	0	-1	0.3	0	-0.3	0.83	0.82	0	0	0	0	0	0
5/20/2024 22:27	59201	THOM_T1	3	6	3	0.13	0.18	0.05	0	0	0	0	0	0	0	0
5/20/2024 22:27	66701	STRA_T1	0	0	0	0	0	0	0.8	0.74	0	0	0	0	0	0
5/20/2024 22:27	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
5/20/2024 22:27	66703	STRA_T1	6	118	112	0.38	0.33	-0.05	-0.25	-0.28	0	0	0	0	0	0
5/20/2024 22:27	43301	WATS_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/20/2024 22:27	67703	WERN_T2	0	0	0	0	0	0	-0.7	-0.73	1	1	0	900	900	0
5/20/2024 22:27	57403	SPAN_T1	6	9	3	0.15	0.19	0.04	0	0	0	0	0	0	0	0
5/20/2024 22:27	43302	WATS_T2	4	1	-3	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/20/2024 22:27	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
5/20/2024 22:27	53901	HALI_T2	1	1	0	0.2	0.4	0.2	-1.35	-1.35	0	0	0	0	0	0
5/20/2024 22:27	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 22:27	67201	TEHI_T1	0	0	0	0	0	0	-0.63	-0.62	1	1	0	900	900	0
5/20/2024 22:27	53501	EVIL_T2	1	2	1	0.7	1.05	0.35	-0.67	-0.75	1	1	0	600	600	0
5/20/2024 22:27	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 22:27	52101	MEIS_T1	2	2	0	0.7	0.95	0.25	0	0	0	0	0	0	0	0
5/20/2024 22:27	42201	SHEN_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
5/20/2024 22:27	59202	THOM_T1	14	30	16	0.14	0.19	0.05	0	0	0	0	0	0	0	0
5/20/2024 22:27	52501	PROG_T1	0	0	0	0	0	0	0.61	0.6	1	1	0	300	300	0
5/20/2024 22:27	59002	MIFF_T1	5	5	0	0.5	0.22	-0.28	0	0	0	0	0	0	0	0
5/20/2024 22:27	57401	SPAN_T1	0	0	0	0	0	0	-1.1	-1.13	1	1	0	600	600	0
5/20/2024 22:28	46504	LOHA_T1	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
5/20/2024 22:28	63804	HEMP_T1	1	1	0	5.1	5.6	0.5	-0.39	-0.39	0	0	0	0	0	0
5/20/2024 22:28	55002	NEWP_T1	0	3	3	0	0.47	0.47	-0.21	-0.24	0	0	0	0	0	0
5/20/2024 22:28	58003	WCAR_T1	1	1	0	1.4	1.2	-0.2	0.68	0.69	0	0	0	0	0	0
5/20/2024 22:28	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/20/2024 22:28	58001	WCAR_T1	4	4	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/20/2024 22:28	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
5/20/2024 22:28	46506	LOHA_T1	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
5/20/2024 22:28	43202	MVIL_T2	57	119	62	0.5	0.57	0.07	-0.66	-0.68	0	0	0	0	0	0
5/20/2024 22:28	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
5/20/2024 22:28	43801	SWIL_T1	28	2	-26	0.4	3.2	2.8	0	0	0	0	0	0	0	0
5/20/2024 22:28	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/20/2024 22:28	53903	HALI_T2	2	2	0	1.2	1	-0.2	-0.1	-0.1	0	0	0	0	0	0
5/20/2024 22:28	46801	HEPB_T2	3	2	-1	0.43	0.3	-0.13	0.81	0.76	0	0	0	0	0	0
5/20/2024 22:28	43802	SWIL_T1	0	0	0	0	0	0	0.04	0.02	1	1	0	600	600	0
5/20/2024 22:28	56501	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/20/2024 22:28	53501	EVIL_T2	1	2	1	0.7	1.05	0.35	-0.67	-0.75	1	1	0	600	600	0
5/20/2024 22:28	53901	HALI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/20/2024 22:28	55105	WERT_T1	0	0	0	0	0	0	-0.25	-0.29	1	1	0	900	900	0
5/20/2024 22:29	66505	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/20/2024 22:29	41902	REED_T1	3	1	-2	0.33	0	-0.33	1.11	1.04	0	0	0	0	0	0
5/20/2024 22:29	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 22:29	66503	SMAN_T2	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
5/20/2024 22:29	51702	OBER_T1	2	2	0	2.6	2.45	-0.15	-0.3	-0.32	0	0	0	0	0	0
5/20/2024 22:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 22:29	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
5/20/2024 22:29	23001	SAJO_T1	0	0	0	0	0	0	0.06	0.13	0	0	0	0	0	0
5/20/2024 22:29	58402	MORO_T1	0	0	0	0	0	0	-0.22	-0.24	2	2	0	1500	1500	0
5/20/2024 22:29	45501	DERR_T2	0	0	0	0	0	0	-0.28	-0.24	4	4	0	3600	3600	0
5/20/2024 22:29	67703	WERN_T2	0	0	0	0	0	0	-0.7	-0.73	1	1	0	900	900	0
5/20/2024 22:29	42201	SHEN_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
5/20/2024 22:29	42903	MIDD_T2	2	2	0	2.05	2.1	0.05	0	0	0	0	0	0	0	0
5/20/2024 22:29	58401	MORO_T1	0	0	0	0	0	0	-1	-1.08	1	1	0	600	600	0
5/20/2024 22:29	42901	MIDD_T2	49	21	-28	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
5/20/2024 22:29	52101	MEIS_T1	2	2	0	0.7	0.95	0.25	0	0	0	0	0	0	0	0
5/20/2024 22:29	46004	BERW_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
5/20/2024 22:29	42902	MIDD_T2	31	30	-1	0.4	0.31	-0.09	-0.41	-0.44	0	0	0	0	0	0
5/20/2024 22:29	45502	DERR_T2	1	0	-1	8.1	0	-8.1	0	0	0	0	0	0	0	0
5/20/2024 22:29	63304	GREE_T1	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
5/20/2024 22:29	10801	CHHI_T1	0	4	4	0	0.1	0.1	-1.79	-1.82	3	3	0	2100	2100	0
5/20/2024 22:29	57403	SPAN_T1	6	9	3	0.15	0.19	0.04	0.11	0.11	0	0	0	0	0	0
5/20/2024 22:30	42901	MIDD_T2	0	45	45	0	0.12	0.12	0	0	0	0	0	0	0	0
5/20/2024 22:30	59101	WALK_T2	0	25	25	0	0.17	0.17	-0.56	-0.53	0	0	0	0	0	0
5/20/2024 22:30	58402	MORO_T1	0	0	0	0	0	0	-0.22	-0.24	2	2	0	1500	1500	0
5/20/2024 22:30	63302	GREE_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
5/20/2024 22:30	51702	OBER_T1	2	2	0	2.45	2.45	0	-0.3	-0.32	0	0	0	0	0	0
5/20/2024 22:30	42903	MIDD_T2	2	2	0	2	2.2	0.2	-0.13	-0.12	0	0	0	0	0	0
5/20/2024 22:30	62606	ENGL_T1	0	0	0	0	0	0	-0.54	-0.5	1	1	0	900	900	0
5/20/2024 22:30	65904	SAKR_T2	0	0	0	0	0	0	-1.51	-1.54	3	3	0	1500	1500	0
5/20/2024 22:30	46504	LOHA_T1	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/20/2024 22:30	43202	MVIL_T2	79	119	40	0.56	0.56	0	-0.66	-0.68	0	0	0	0	0	0
5/20/2024 22:30	67402	WAKE_T2	0	0	0	0	0	0	0.26	0.21	0	0	0	0	0	0
5/20/2024 22:30	46505	LOHA_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
5/20/2024 22:30	65901	SAKR_T2	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0	0
5/20/2024 22:30	46506	LOHA_T1	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
5/20/2024 22:30	42902	MIDD_T2	20	38	18	0.28	0.34	0.06	-0.41	-0.44	0	0	0	0	0	0
5/20/2024 22:30	67401	WAKE_T2	40	95	55	0.15	0.22	0.07	0	0	0	0	0	0	0	0
5/20/2024 22:31	67803	WLAN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/20/2024 22:31	52404	GRPA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/20/2024 22:31	67802	WLAN_T1	5	21	16	0.14	0.15	0.01	0	0	0	0	0	0	0	0
5/20/2024 22:31	67804	WLAN_T1	1	11	10	0.1	0.13	0.03	0	0	0	0	0	0	0	0
5/20/2024 22:31	60101	COCA_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
5/20/2024 22:31	57403	SPAN_T1	6	9	3	0.1	0.19	0.09	0.11	0.11	0	0	0	0	0	0
5/20/2024 22:31	54601	SUMM_T2	0	0	0	0	0	0	-1.71	-1.67	2	2	0	2100	2100	0
5/20/2024 22:31	45501	DERR_T2	0	0	0	0	0	0	-0.28	-0.24	4	4	0	3600	3600	0
5/20/2024 22:31	52402	GRPA_T2	3	3	0	0.43	0.4	-0.03	-0.74	-0.77	0	0	0	0	0	0
5/20/2024 22:31	67801	WLAN_T1	0	12	12	0	0.12	0.12	0	0	0	0	0	0	0	0
5/20/2024 22:31	58401	MORO_T1	0	0	0	0	0	0	-1	-1.08	1	1	0	600	600	0
5/20/2024 22:31	67605	WARW_T1	0	2	2	0	0.15	0.15	-1.06	-1.09	0	0	0	0	0	0
5/20/2024 22:31	67805	WLAN_T1	323	458	135	0.22	0.34	0.12	-1.29	-1.24	0	0	0	0	0	0
5/20/2024 22:31	52403	GRPA_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
5/20/2024 22:31	52401	GRPA_T2	2	1	-1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
5/20/2024 22:31	59101	WALK_T2	0	25	25	0	0.17	0.17	-0.56	-0.53	0	0	0	0	0	0
5/20/2024 22:31	64101	REFR_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
5/20/2024 22:32	41902	REED_T1	1	0	-1	0.5	0	-0.5	1.11	1.04	0	0	0	0	0	0
5/20/2024 22:32	52404	GRPA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/20/2024 22:32	58001	WCAR_T1	4	4	0	0.8	0.78	-0.02	0	0	0	0	0	0	0	0
5/20/2024 22:32	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
5/20/2024 22:32	58003	WCAR_T1	1	1	0	1.1	1.2	0.1	0.68	0.69	0	0	0	0	0	0
5/20/2024 22:32	67605	WARW_T1	0	2	2	0	0.15	0.15	-1.06	-1.09	0	0	0	0	0	0
5/20/2024 22:32	50502	MECH_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
5/20/2024 22:32	52403	GRPA_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
5/20/2024 22:32	52402	GRPA_T2	3	3	0	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
5/20/2024 22:32	58401	MORO_T1	0	0	0	0	0	0	-1	-1.08	1	1	0	600	600	0
5/20/2024 22:32	52401	GRPA_T2	2	1	-1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
5/20/2024 22:32	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/20/2024 22:32	50501	MECH_T1	3	4	1	0.2	0.43	0.23	-0.94	-0.93	0	0	0	0	0	0
5/20/2024 22:32	52101	MEIS_T1	2	2	0	0.65	1.15	0.5	0	0	0	0	0	0	0	0
5/20/2024 22:32	56802	BENV_T2	27	42	15	0.17	0.15	-0.02	-1.36	-1.37	0	0	0	0	0	0
5/20/2024 22:33	67803	WLAN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/20/2024 22:33	42901	MIDD_T2	0	45	45	0	0.12	0.12	0	0	0	0	0	0	0	0
5/20/2024 22:33	53902	HALI_T2	1	1	0	5	5.2	0.2	-0.22	-0.24	0	0	0	0	0	0
5/20/2024 22:33	53501	EVIL_T2	2	2	0	0.65	1.05	0.4	-0.67	-0.75	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/20/2024 22:33	53901	HALI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/20/2024 22:33	67801	WLAN_T1	0	12	12	0	0.12	0.12	0	0	0	0	0	0	0	0
5/20/2024 22:33	67802	WLAN_T1	5	21	16	0.14	0.15	0.01	0	0	0	0	0	0	0	0
5/20/2024 22:33	53903	HALI_T2	2	2	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
5/20/2024 22:33	67804	WLAN_T1	1	11	10	0.1	0.13	0.03	-0.9	-0.93	0	0	0	0	0	0
5/20/2024 22:33	42902	MIDD_T2	20	38	18	0.28	0.34	0.06	-0.41	-0.44	0	0	0	0	0	0
5/20/2024 22:33	67805	WLAN_T1	323	458	135	0.22	0.34	0.12	0	0	0	0	0	0	0	0
5/20/2024 22:33	53502	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/20/2024 22:33	42903	MIDD_T2	2	2	0	2	2.2	0.2	0	0	0	0	0	0	0	0
5/20/2024 22:34	52401	GRPA_T2	2	1	-1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
5/20/2024 22:34	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
5/20/2024 22:34	52404	GRPA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/20/2024 22:34	52403	GRPA_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
5/20/2024 22:34	42802	SELI_T1	0	0	0	0	0	0	-0.79	-0.84	1	1	0	900	900	0
5/20/2024 22:34	52402	GRPA_T2	3	3	0	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
5/20/2024 22:36	45602	WOOL_T1	3	2	-1	0.53	0.35	-0.18	0.68	0.59	0	0	0	0	0	0
5/20/2024 22:40	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/20/2024 22:42	56501	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/20/2024 22:44	25402	LAHA_T2	1	4	3	0.1	0.13	0.03	-0.89	-0.92	0	0	0	0	0	0
5/20/2024 22:44	25404	LAHA_T2	217	215	-2	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
5/20/2024 23:02	65205	PRIN_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
5/20/2024 23:12	24801	VALM_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
5/20/2024 23:16	64904	MILL_T1	152	2	-150	0.18	0.15	-0.03	0.23	0.7	0	0	0	0	0	0
5/20/2024 23:16	64901	MILL_T1	54	19	-35	0.28	0.15	-0.13	0	0	0	0	0	0	0	0
5/20/2024 23:28	57001	WHHI_T2	0	0	0	0	0	0	-0.21	-0.21	1	1	0	900	900	0
5/21/2024 1:09	59202	THOM_T1	0	22	22	0	0.15	0.15	0	0	0	0	0	0	0	0
5/21/2024 1:27	24802	VALM_T1	0	0	0	0	0	0	2.08	2.19	0	0	0	0	0	0
5/21/2024 2:43	67603	WARW_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
5/21/2024 2:43	67605	WARW_T1	14	14	0	0.59	0.64	0.05	0	0	0	0	0	0	0	0
5/21/2024 3:26	59002	MIFF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/21/2024 3:26	59003	MIFF_T1	0	0	0	0	0	0	1.02	1.44	0	0	0	0	0	0
5/21/2024 3:53	65901	SAKR_T2	1	1	0	8.4	8.4	0	-1.35	-1.32	1	1	0	900	900	0
5/21/2024 6:25	29402	BELT_T1	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
5/21/2024 6:25	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/21/2024 6:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/21/2024 6:26	29402	BELT_T1	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
5/21/2024 6:55	29402	BELT_T1	1	1	0	7.1	7.5	0.4	0	0	0	0	0	0	0	0
5/21/2024 6:55	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/21/2024 6:57	22001	BOHE_T1	2	19	17	0.1	0.12	0.02	0.22	0.23	0	0	0	0	0	0
5/21/2024 6:57	22003	BOHE_T1	27	31	4	0.17	0.23	0.06	0	0	0	0	0	0	0	0
5/21/2024 6:57	22002	BOHE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/21/2024 7:02	13501	MCMI_T1	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
5/21/2024 7:03	12601	MACA_T1	0	0	0	0	0	0	0.71	0.73	0	0	0	0	0	0
5/21/2024 7:04	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/21/2024 7:06	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 7:07	20403	ASHF_T2	0	0	0	0	0	0	0.46	0.68	0	0	0	0	0	0
5/21/2024 7:07	20401	ASHF_T2	2	2	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
5/21/2024 7:09	67703	WERN_T2	0	0	0	0	0	0	-0.28	-0.27	2	2	0	1800	1800	0
5/21/2024 7:11	56801	BENV_T1	9	21	12	1.18	0.98	-0.2	0	0	0	0	0	0	0	0
5/21/2024 7:11	56802	BENV_T2	1	3	2	0.3	0.4	0.1	-1.43	-1.48	0	0	0	0	0	0
5/21/2024 7:11	56803	BENV_T1	1	1	0	4.4	0	-4.4	-0.14	-0.13	1	1	0	600	600	0
5/21/2024 7:13	22002	BOHE_T1	1	8	7	0.1	0.14	0.04	0.29	0.31	0	0	0	0	0	0
5/21/2024 7:13	22001	BOHE_T1	0	273	273	0	0.18	0.18	0.23	0.25	0	0	0	0	0	0
5/21/2024 7:13	22003	BOHE_T1	24	158	134	0.15	0.21	0.06	0	0	0	0	0	0	0	0
5/21/2024 7:17	62102	ELAN_T1	0	0	0	0	0	0	0.65	0.59	0	0	0	0	0	0
5/21/2024 7:18	55001	NEWP_T1	0	0	0	0	0	0	-0.2	-0.16	0	0	0	0	0	0
5/21/2024 7:18	55002	NEWP_T1	5	6	1	0.58	0.67	0.09	0	0	0	0	0	0	0	0
5/21/2024 7:19	66502	SMAN_T2	0	0	0	0	0	0	0.2	0.28	0	0	0	0	0	0
5/21/2024 7:19	65603	QVIL_T2	0	0	0	0	0	0	-0.53	0.54	0	0	0	0	0	0
5/21/2024 7:20	65702	RVIL_T2	0	0	0	0	0	0	-0.91	-0.92	1	1	0	600	600	0
5/21/2024 7:20	15204	SFAR_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
5/21/2024 7:22	67204	TEHI_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
5/21/2024 7:22	65702	RVIL_T2	0	0	0	0	0	0	-0.91	-0.92	1	1	0	600	600	0
5/21/2024 7:22	67703	WERN_T2	0	0	0	0	0	0	-0.14	-0.14	1	1	0	900	900	0
5/21/2024 7:23	67204	TEHI_T2	0	0	0	0	0	0	-0.3	-0.27	0	0	0	0	0	0
5/21/2024 7:23	44301	BEAV_T2	1	1	0	0.7	0.1	-0.6	0.81	0.07	2	2	0	1500	1500	0
5/21/2024 7:24	67703	WERN_T2	0	0	0	0	0	0	-0.14	-0.1	1	1	0	900	900	0
5/21/2024 7:25	56803	BENV_T1	1	0	-1	0.4	0	-0.4	-0.39	-0.42	3	3	0	1800	1800	0
5/21/2024 7:25	29402	BELT_T1	1	1	0	7.5	8.9	1.4	0	0	0	0	0	0	0	0
5/21/2024 7:25	56801	BENV_T1	15	22	7	1.04	1	-0.04	0	0	0	0	0	0	0	0
5/21/2024 7:25	15203	SFAR_T2	0	0	0	0	0	0	-1.23	-1.19	0	0	0	0	0	0
5/21/2024 7:25	29401	BELT_T1	0	47	47	0	0.19	0.19	0	0	2	2	0	1800	1800	0
5/21/2024 7:25	67703	WERN_T2	0	0	0	0	0	0	-0.14	-0.1	1	1	0	900	900	0
5/21/2024 7:26	56801	BENV_T1	15	22	7	1.04	1	-0.04	0	0	0	0	0	0	0	0
5/21/2024 7:26	56803	BENV_T1	1	0	-1	0.4	0	-0.4	-0.26	-0.28	2	2	0	1200	1200	0
5/21/2024 7:29	40101	HUNT_T2	0	0	0	0	0	0	-0.5	-0.45	0	0	0	0	0	0
5/21/2024 7:30	64701	LITI_T1	0	0	0	0	0	0	0.43	0.46	0	0	0	0	0	0
5/21/2024 7:33	43202	MVIL_T2	0	0	0	0	0	0	-0.61	-0.59	0	0	0	0	0	0
5/21/2024 7:35	16503	STRO_T2	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
5/21/2024 7:38	20401	ASHF_T2	2	8	6	0.35	0.39	0.04	0	0	0	0	0	0	0	0
5/21/2024 7:38	20403	ASHF_T2	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
5/21/2024 7:39	45602	WOOL_T1	0	3	3	0	0.43	0.43	0.54	0.59	0	0	0	0	0	0
5/21/2024 7:40	62104	ELAN_T1	0	0	0	0	0	0	0.48	0.5	2	2	0	1500	1500	0
5/21/2024 7:40	61102	BERK_T5	0	0	0	0	0	0	0.84	1.2	1	1	0	300	300	0
5/21/2024 7:41	50105	HARR_T3	6	6	0	6.27	5.92	-0.35	0	0	0	0	0	0	0	0
5/21/2024 7:41	50107	HARR_T3	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
5/21/2024 7:41	50201	HARR_T3	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/21/2024 7:41	50103	HARR_T3	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/21/2024 7:41	45602	WOOL_T1	0	3	3	0	0.43	0.43	0.54	0.59	0	0	0	0	0	0
5/21/2024 7:43	62104	ELAN_T1	0	0	0	0	0	0	0.95	1	4	4	0	3000	3000	0
5/21/2024 7:51	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/21/2024 7:51	56501	ROCK_T2	2	3	1	0.95	0.97	0.02	83.96	83.96	0	0	0	0	0	0
5/21/2024 7:54	67402	WAKE_T2	0	0	0	0	0	0	0.42	0.45	1	1	0	600	600	0
5/21/2024 7:54	29402	BELT_T1	1	1	0	8.9	8.8	-0.1	0	0	0	0	0	0	0	0
5/21/2024 7:54	67505	WEWI_T1	0	0	0	0	0	0	-0.12	-0.11	1	1	0	900	900	0
5/21/2024 7:54	29401	BELT_T1	47	54	7	0.19	0.19	0	0	0	1	1	0	900	900	0
5/21/2024 7:54	40502	CRES_T2	11	11	0	0.26	0.23	-0.03	-0.07	-0.06	0	0	0	0	0	0
5/21/2024 7:54	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 7:54	67501	WEWI_T1	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
5/21/2024 7:55	67505	WEWI_T1	0	0	0	0	0	0	-0.12	-0.11	1	1	0	900	900	0
5/21/2024 7:55	61103	BERK_T5	0	0	0	0	0	0	0.12	0.16	0	0	0	0	0	0
5/21/2024 7:55	56802	BENV_T2	2	112	110	0.45	0.2	-0.25	-2.8	-2.76	0	0	0	0	0	0
5/21/2024 7:55	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 7:55	67501	WEWI_T1	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
5/21/2024 7:55	40502	CRES_T2	11	11	0	0.26	0.23	-0.03	-0.21	-0.18	0	0	0	0	0	0
5/21/2024 7:56	29402	BELT_T1	1	1	0	8.9	8.8	-0.1	0	0	0	0	0	0	0	0
5/21/2024 7:56	29401	BELT_T1	47	54	7	0.19	0.19	0	0	0	1	1	0	900	900	0
5/21/2024 7:56	40502	CRES_T2	11	11	0	0.26	0.23	-0.03	-0.28	-0.24	0	0	0	0	0	0
5/21/2024 7:56	56802	BENV_T2	2	112	110	0.45	0.2	-0.25	-1.4	-1.38	0	0	0	0	0	0
5/21/2024 7:56	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 7:57	56802	BENV_T2	2	112	110	0.45	0.2	-0.25	-1.4	-1.38	0	0	0	0	0	0
5/21/2024 7:57	40502	CRES_T2	11	11	0	0.26	0.23	-0.03	-0.21	-0.18	0	0	0	0	0	0
5/21/2024 7:57	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 7:57	26603	BROO_T1	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
5/21/2024 7:58	40502	CRES_T2	11	11	0	0.26	0.23	-0.03	-0.07	-0.06	0	0	0	0	0	0
5/21/2024 7:58	26603	BROO_T1	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
5/21/2024 7:58	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 7:59	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/21/2024 7:59	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 7:59	40502	CRES_T2	11	11	0	0.26	0.23	-0.03	-0.21	-0.18	0	0	0	0	0	0
5/21/2024 8:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 8:00	40502	CRES_T2	11	0	-11	0.23	0	-0.23	-0.14	-0.12	0	0	0	0	0	0
5/21/2024 8:02	56501	ROCK_T2	2	3	1	0.9	0.97	0.07	83.96	83.96	0	0	0	0	0	0
5/21/2024 8:04	56501	ROCK_T2	2	3	1	0.9	0.97	0.07	167.92	167.92	0	0	0	0	0	0
5/21/2024 8:05	54201	PENN_T1	8	34	26	0.88	0.47	-0.41	0	0	0	0	0	0	0	0
5/21/2024 8:05	54203	PENN_T1	18	18	0	0.69	1.33	0.64	0.19	0.27	0	0	0	0	0	0
5/21/2024 8:06	15703	TANN_T2	7	5	-2	0.96	1.16	0.2	0	0	0	0	0	0	0	0
5/21/2024 8:06	15702	TANN_T2	49	32	-17	0.16	0.13	-0.03	-0.44	-0.31	0	0	0	0	0	0
5/21/2024 8:07	17002	RIRO_T2	0	23	23	0	0.15	0.15	0.75	0.67	0	0	0	0	0	0
5/21/2024 8:07	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 8:07	67703	WERN_T2	0	0	0	0	0	0	-0.1	-0.01	1	1	0	900	900	0
5/21/2024 8:08	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/21/2024 8:10	29402	BELT_T1	1	1	0	8.8	8.8	0	0	0	0	0	0	0	0	0
5/21/2024 8:10	29401	BELT_T1	53	46	-7	0.19	0.16	-0.03	0	0	0	0	0	0	0	0
5/21/2024 8:11	44301	BEAV_T2	1	2	1	1.2	0.3	-0.9	0.27	0.31	2	2	0	1500	1500	0
5/21/2024 8:11	58001	WCAR_T1	1	4	3	0.9	0.63	-0.27	0.14	0.21	1	1	0	600	600	0
5/21/2024 8:11	58001	WCAR_T1	4	4	0	0.35	1.13	0.78	0	0	0	0	0	0	0	0
5/21/2024 8:13	44301	BEAV_T2	1	2	1	1.2	0.3	-0.9	0.27	0.31	2	2	0	1500	1500	0
5/21/2024 8:13	53901	HALI_T2	1	1	0	0.2	1.1	0.9	-2.83	-2.86	0	0	0	0	0	0
5/21/2024 8:13	53903	HALI_T2	2	2	0	0.8	1.5	0.7	0	0	0	0	0	0	0	0
5/21/2024 8:13	53902	HALI_T2	1	1	0	4.8	5.5	0.7	0	0	0	0	0	0	0	0
5/21/2024 8:15	53902	HALI_T2	1	2	1	5.3	2.8	-2.5	0	0	0	0	0	0	0	0
5/21/2024 8:15	53903	HALI_T2	2	3	1	1.35	1.07	-0.28	0	0	0	0	0	0	0	0
5/21/2024 8:15	53901	HALI_T2	1	1	0	1	1.1	0.1	-2.83	-2.86	0	0	0	0	0	0
5/21/2024 8:16	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/21/2024 8:17	53903	HALI_T2	2	3	1	1.35	1.07	-0.28	0	0	0	0	0	0	0	0
5/21/2024 8:17	53902	HALI_T2	1	2	1	5.3	2.8	-2.5	0	0	0	0	0	0	0	0
5/21/2024 8:17	53901	HALI_T2	1	1	0	1	1.1	0.1	-1.42	-1.43	0	0	0	0	0	0
5/21/2024 8:19	53902	HALI_T2	1	2	1	5.3	2.8	-2.5	0	0	0	0	0	0	0	0
5/21/2024 8:19	53903	HALI_T2	2	3	1	1.35	1.07	-0.28	0	0	0	0	0	0	0	0
5/21/2024 8:19	58401	MORO_T1	1	0	-1	0.2	0	-0.2	-0.76	-0.72	1	1	0	600	600	0
5/21/2024 8:19	53901	HALI_T2	1	1	0	1	1.1	0.1	-1.42	-1.43	0	0	0	0	0	0
5/21/2024 8:23	59101	WALK_T2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
5/21/2024 8:23	50701	SMEC_T1	1	0	-1	0.1	0	-0.1	-0.78	-0.65	1	0	-1	900	0	-900
5/21/2024 8:24	50701	SMEC_T1	1	0	-1	0.1	0	-0.1	-0.78	-0.65	1	0	-1	900	0	-900
5/21/2024 8:24	56802	BENV_T2	112	64	-48	0.2	0.2	0	-1.37	-1.35	0	0	0	0	0	0
5/21/2024 8:26	56802	BENV_T2	112	64	-48	0.2	0.2	0	-2.74	-2.7	0	0	0	0	0	0
5/21/2024 8:27	56802	BENV_T2	112	64	-48	0.2	0.2	0	-4.11	-4.05	0	0	0	0	0	0
5/21/2024 8:30	56802	BENV_T2	32	236	204	0.23	0.31	0.08	-2.74	-2.7	0	0	0	0	0	0
5/21/2024 8:31	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 8:31	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/21/2024 8:32	40101	HUNT_T2	0	2	2	0	1.8	1.8	-0.92	-0.72	0	0	0	0	0	0
5/21/2024 8:32	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/21/2024 8:32	13503	MCMI_T2	3	2	-1	0.3	0.45	0.15	-0.01	-0.01	0	0	0	0	0	0
5/21/2024 8:32	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 8:35	57205	ROSS_T1	1	1	0	0.9	0.8	-0.1	0.29	0.33	0	0	0	0	0	0
5/21/2024 8:36	56503	ROCK_T2	0	1	1	0	4.4	4.4	0	0	0	0	0	0	0	0
5/21/2024 8:36	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/21/2024 8:36	56501	ROCK_T2	2	4	2	0.5	1.3	0.8	83.96	83.96	0	0	0	0	0	0
5/21/2024 8:38	14403	SSLA_T1	0	0	0	0	0	0	1.35	1.38	0	0	0	0	0	0
5/21/2024 8:38	14404	SSLA_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
5/21/2024 8:39	29401	BELT_T1	43	0	-43	0.17	0	-0.17	0	0	3	0	-3	2700	0	-2700
5/21/2024 8:39	67402	WAKE_T2	0	0	0	0	0	0	0.46	0.47	1	1	0	600	600	0
5/21/2024 8:39	15203	SFAR_T2	0	2	2	0	0.2	0.2	-1.1	-1.1	0	0	0	0	0	0
5/21/2024 8:39	29402	BELT_T1	1	1	0	8.8	8.4	-0.4	0	0	0	0	0	0	0	0
5/21/2024 8:40	59101	WALK_T2	0	0	0	0	0	0	0.82	0.78	0	0	0	0	0	0
5/21/2024 8:40	29401	BELT_T1	43	0	-43	0.17	0	-0.17	0	0	0	0	0	0	0	0
5/21/2024 8:40	29402	BELT_T1	1	1	0	8.8	8.4	-0.4	0	0	0	0	0	0	0	0
5/21/2024 8:40	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 8:41	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/21/2024 8:42	40101	HUNT_T2	0	2	2	0	1.8	1.8	-0.36	-0.32	0	0	0	0	0	0
5/21/2024 8:45	47001	HUGH_T2	0	0	0	0	0	0	-0.68	-0.62	0	0	0	0	0	0
5/21/2024 8:52	54202	PENN_T2	0	0	0	0	0	0	0.92	0.79	0	0	0	0	0	0
5/21/2024 8:54	60802	BUCK_T2	0	0	0	0	0	0	0.3	0.35	0	0	0	0	0	0
5/21/2024 8:54	15702	TANN_T2	5	7	2	0.28	0.32	0.04	-0.35	-0.26	0	0	0	0	0	0
5/21/2024 8:54	15703	TANN_T2	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
5/21/2024 8:55	29401	BELT_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 8:55	29402	BELT_T1	1	1	0	8.3	8.5	0.2	0	0	0	0	0	0	0	0
5/21/2024 8:58	40101	HUNT_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
5/21/2024 8:59	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 9:00	23202	HIRU_T2	206	52	-154	0.14	0.12	-0.02	0	0	0	0	0	0	0	0
5/21/2024 9:00	23201	HIRU_T2	99	94	-5	0.19	0.21	0.02	0.13	0.13	0	0	0	0	0	0
5/21/2024 9:00	23203	HIRU_T2	119	41	-78	0.16	0.16	0	0	0	0	0	0	0	0	0
5/21/2024 9:05	55002	NEWP_T1	12	14	2	0.79	0.81	0.02	-0.4	-0.36	0	0	0	0	0	0
5/21/2024 9:06	55002	NEWP_T1	12	14	2	0.79	0.81	0.02	-0.2	-0.18	0	0	0	0	0	0
5/21/2024 9:08	55002	NEWP_T1	12	14	2	0.79	0.81	0.02	-0.18	-0.17	0	0	0	0	0	0
5/21/2024 9:08	45902	AUBU_T1	0	0	0	0	0	0	-0.52	-0.5	1	1	0	600	600	0
5/21/2024 9:09	57003	WHIH_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/21/2024 9:09	20401	ASHF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/21/2024 9:09	57001	WHIH_T2	0	0	0	0	0	0	-1.13	-1.13	1	1	0	900	900	0
5/21/2024 9:09	20403	ASHF_T2	1	1	0	0.3	0.5	0.2	1.56	1.68	0	0	0	0	0	0
5/21/2024 9:09	55105	WERT_T1	0	0	0	0	0	0	-0.35	-0.25	1	1	0	900	900	0
5/21/2024 9:09	58003	WCAR_T1	3	8	5	0.6	0.49	-0.11	0.39	0.31	1	1	0	600	600	0
5/21/2024 9:09	58001	WCAR_T1	4	5	1	0.98	1.18	0.2	0	0	0	0	0	0	0	0
5/21/2024 9:09	58006	WCAR_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
5/21/2024 9:10	58006	WCAR_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
5/21/2024 9:10	45902	AUBU_T1	0	0	0	0	0	0	-1.05	-1	2	2	0	1200	1200	0
5/21/2024 9:10	67401	WAKE_T2	0	1	1	0	0.1	0.1	-0.79	-0.7	0	0	0	0	0	0
5/21/2024 9:10	48302	ORWI_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
5/21/2024 9:11	45901	AUBU_T1	0	0	0	0	0	0	2.22	2.28	0	0	0	0	0	0
5/21/2024 9:15	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/21/2024 9:16	17802	GILB_T1	1	2	1	0.4	0.45	0.05	0.11	0.13	0	0	0	0	0	0
5/21/2024 9:17	47001	HUGH_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
5/21/2024 9:19	42201	SHEN_T2	0	0	0	0	0	0	-0.24	-0.24	2	2	0	1200	1200	0
5/21/2024 9:20	41902	REED_T1	0	0	0	0	0	0	1.26	1.27	0	0	0	0	0	0
5/21/2024 9:20	64801	MONE_T2	2	2	0	0.25	0.7	0.45	0	0	0	0	0	0	0	0
5/21/2024 9:20	13303	ORVI_T1	0	0	0	0	0	0	-0.16	-0.24	0	0	0	0	0	0
5/21/2024 9:20	64802	MONE_T2	0	2	2	0	0.45	0.45	0.32	0.31	0	0	0	0	0	0
5/21/2024 9:21	43301	WATS_T2	0	3	3	0	0.2	0.2	0	0	1	1	0	900	900	0
5/21/2024 9:21	55001	NEWP_T1	13	12	-1	0.87	0.87	0	-0.36	-0.34	0	0	0	0	0	0
5/21/2024 9:22	43301	WATS_T2	0	3	3	0	0.2	0.2	0	0	1	1	0	900	900	0
5/21/2024 9:22	67605	WARW_T1	5	15	10	0.18	0.32	0.14	-0.98	-0.86	0	0	0	0	0	0
5/21/2024 9:22	55002	NEWP_T1	13	12	-1	0.87	0.87	0	-0.18	-0.17	0	0	0	0	0	0
5/21/2024 9:23	43301	WATS_T2	0	3	3	0	0.2	0.2	0	0	1	1	0	900	900	0
5/21/2024 9:23	67203	TEHI_T1	0	3	3	0	0.4	0.4	2.69	2.87	2	2	0	1200	1200	0
5/21/2024 9:23	67204	TEHI_T2	0	0	0	0	0	0	-0.05	0	0	0	0	0	0	0
5/21/2024 9:23	67201	TEHI_T1	1	6	5	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/21/2024 9:23	41902	REED_T1	0	0	0	0	0	0	1.27	1.28	0	0	0	0	0	0
5/21/2024 9:24	67605	WARW_T1	5	15	10	0.18	0.32	0.14	-1.73	-1.76	0	0	0	0	0	0
5/21/2024 9:24	67204	TEHI_T2	0	0	0	0	0	0	-0.05	0	0	0	0	0	0	0
5/21/2024 9:24	55002	NEWP_T1	13	12	-1	0.87	0.87	0	-0.17	-0.16	0	0	0	0	0	0
5/21/2024 9:25	43301	WATS_T2	0	3	3	0	0.2	0.2	0	0	1	1	0	900	900	0
5/21/2024 9:25	67605	WARW_T1	5	15	10	0.18	0.32	0.14	-0.86	-0.88	0	0	0	0	0	0
5/21/2024 9:26	46206	DANV_T2	2	2	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
5/21/2024 9:26	46203	DANV_T2	0	1	1	0	0.2	0.2	-1.86	-1.71	0	0	0	0	0	0
5/21/2024 9:26	45901	AUBU_T1	0	0	0	0	0	0	2.28	2.26	0	0	0	0	0	0
5/21/2024 9:26	43301	WATS_T2	0	3	3	0	0.2	0.2	0	0	1	1	0	900	900	0
5/21/2024 9:26	58006	WCAR_T2	0	0	0	0	0	0	0.39	0.47	0	0	0	0	0	0
5/21/2024 9:27	46206	DANV_T2	2	2	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
5/21/2024 9:27	46203	DANV_T2	0	1	1	0	0.2	0.2	-1.86	-1.71	0	0	0	0	0	0
5/21/2024 9:27	43301	WATS_T2	0	3	3	0	0.2	0.2	0	0	1	1	0	900	900	0
5/21/2024 9:28	29402	BELT_T1	1	1	0	8.5	8.2	-0.3	0	0	0	0	0	0	0	0
5/21/2024 9:29	15702	TANN_T2	4	4	0	0.35	0.35	0	-0.27	-0.29	0	0	0	0	0	0
5/21/2024 9:29	15703	TANN_T2	1	1	0	5.5	5.8	0.3	0	0	0	0	0	0	0	0
5/21/2024 9:29	46206	DANV_T2	2	2	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
5/21/2024 9:29	46203	DANV_T2	0	1	1	0	0.2	0.2	-1.86	-1.71	0	0	0	0	0	0
5/21/2024 9:35	54203	PENN_T1	18	18	0	0.39	0.89	0.5	0.39	0.49	0	0	0	0	0	0
5/21/2024 9:35	54201	PENN_T1	5	10	5	0.94	0.99	0.05	0	0	0	0	0	0	0	0
5/21/2024 9:36	67401	WAKE_T2	1	42	41	0.1	0.19	0.09	-0.7	-0.73	0	0	0	0	0	0
5/21/2024 9:36	67402	WAKE_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/21/2024 9:36	54206	PENN_T2	0	0	0	0	0	0	0	0.42	0	0	0	0	0	0
5/21/2024 9:40	52202	DEVO_T2	0	0	0	0	0	0	-0.74	-0.53	0	0	0	0	0	0
5/21/2024 9:43	52202	DEVO_T2	0	0	0	0	0	0	-0.74	-0.53	0	0	0	0	0	0
5/21/2024 9:45	17804	GILB_T2	2	3	1	0.7	0.6	-0.1	-0.57	-0.57	0	0	0	0	0	0
5/21/2024 9:45	17805	GILB_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/21/2024 9:46	12601	MACA_T1	1	1	0	0.9	1.2	0.3	0.86	0.91	0	0	0	0	0	0
5/21/2024 9:47	64702	LITI_T2	0	0	0	0	0	0	-0.21	-0.34	0	0	0	0	0	0
5/21/2024 9:47	64802	MONE_T2	2	25	23	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
5/21/2024 9:47	64801	MONE_T2	2	8	6	0.7	0.3	-0.4	0.36	0.39	0	0	0	0	0	0
5/21/2024 9:48	54206	PENN_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
5/21/2024 9:49	64101	REFR_T1	1	1	0	0.2	0.4	0.2	-0.07	-0.01	0	0	0	0	0	0
5/21/2024 9:49	64702	LITI_T2	0	0	0	0	0	0	-0.21	-0.34	0	0	0	0	0	0
5/21/2024 9:50	67401	WAKE_T2	4	47	43	0.33	0.2	-0.13	-0.73	-0.68	0	0	0	0	0	0
5/21/2024 9:50	67402	WAKE_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/21/2024 9:50	64101	REFR_T1	1	1	0	0.2	0.4	0.2	-0.07	-0.01	0	0	0	0	0	0
5/21/2024 9:51	64101	REFR_T1	1	1	0	0.2	0.4	0.2	-0.14	-0.02	0	0	0	0	0	0
5/21/2024 9:52	67401	WAKE_T2	4	47	43	0.33	0.2	-0.13	-1.46	-1.36	0	0	0	0	0	0
5/21/2024 9:52	67402	WAKE_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/21/2024 9:53	64101	REFR_T1	1	1	0	0.2	0.4	0.2	-0.01	0.03	0	0	0	0	0	0
5/21/2024 9:54	67401	WAKE_T2	4	47	43	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
5/21/2024 9:54	67402	WAKE_T2	0	2	2	0	0.2	0.2	0.55	0.62	1	1	0	600	600	0
5/21/2024 9:54	64101	REFR_T1	1	1	0	0.2	0.4	0.2	-0.02	0.05	0	0	0	0	0	0
5/21/2024 9:55	22003	BOHE_T1	5	7	2	0.94	0.83	-0.11	0	0	0	0	0	0	0	0
5/21/2024 9:55	22001	BOHE_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/21/2024 9:55	67401	WAKE_T2	4	47	43	0.33	0.2	-0.13	-0.68	-0.68	0	0	0	0	0	0
5/21/2024 9:55	67402	WAKE_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/21/2024 9:55	22002	BOHE_T1	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
5/21/2024 9:56	67402	WAKE_T2	0	2	2	0	0.2	0.2	0.55	0.62	1	1	0	600	600	0
5/21/2024 9:56	67401	WAKE_T2	4	47	43	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
5/21/2024 9:59	64702	LITI_T2	0	0	0	0	0	0	-0.34	-0.15	0	0	0	0	0	0
5/21/2024 10:00	56504	ROCK_T2	3	3	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
5/21/2024 10:00	53902	HALI_T2	3	3	0	1.9	2.03	0.13	0	0	0	0	0	0	0	0
5/21/2024 10:00	55105	WERT_T1	0	0	0	0	0	0	-0.24	-0.16	1	1	0	900	900	0
5/21/2024 10:00	42903	MIDD_T2	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
5/21/2024 10:00	54206	PENN_T2	0	0	0	0	0	0	0.41	0.5	0	0	0	0	0	0
5/21/2024 10:00	58006	WCAR_T2	0	0	0	0	0	0	0.41	0.45	0	0	0	0	0	0
5/21/2024 10:00	53901	HALI_T2	1	1	0	0.4	0.5	0.1	-0.24	-0.23	0	0	0	0	0	0
5/21/2024 10:00	54201	PENN_T1	9	12	3	0.91	0.95	0.04	0	0	0	0	0	0	0	0
5/21/2024 10:00	10105	ALLE_T3	3	6	3	0.33	0.5	0.17	0	0	0	0	0	0	0	0
5/21/2024 10:00	67502	WEWI_T2	11	8	-3	0.43	0.55	0.12	0	0	0	0	0	0	0	0
5/21/2024 10:00	46004	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 10:00	40504	CRES_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/21/2024 10:00	10205	ALLE_T3	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 10:00	13503	MCMI_T2	4	4	0	0.43	0.43	0	-0.01	-0.01	0	0	0	0	0	0
5/21/2024 10:00	54202	PENN_T2	0	0	0	0	0	0	0.95	0.92	0	0	0	0	0	0
5/21/2024 10:00	44601	SALE_T2	0	0	0	0	0	0	0.18	0.3	1	1	0	600	600	0
5/21/2024 10:00	46003	BERW_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/21/2024 10:00	46002	BERW_T2	1	1	0	0.5	0.4	-0.1	-0.87	-0.87	1	1	0	900	900	0
5/21/2024 10:00	56502	ROCK_T2	2	2	0	0.7	0.8	0.1	251.88	251.88	0	0	0	0	0	0
5/21/2024 10:00	57006	WHIH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/21/2024 10:00	41902	REED_T1	0	0	0	0	0	0	2.52	2.5	0	0	0	0	0	0
5/21/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	-0.04	0.18	0	0	0	0	0	0
5/21/2024 10:00	58001	WCAR_T1	4	4	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
5/21/2024 10:00	57003	WHIH_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/21/2024 10:00	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 10:00	40505	CRES_T1	3	3	0	4.7	4.8	0.1	0.44	0.55	0	0	0	0	0	0
5/21/2024 10:00	67703	WERN_T2	0	0	0	0	0	0	0.05	0.07	1	1	0	900	900	0
5/21/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.67	0.7	0	0	0	0	0	0
5/21/2024 10:00	57002	WHIH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 10:00	45902	AUBU_T1	0	1	1	0	0.3	0.3	-0.38	-0.27	1	1	0	600	600	0
5/21/2024 10:00	53903	HALI_T2	3	3	0	0.87	1.17	0.3	0	0	0	0	0	0	0	0
5/21/2024 10:00	42902	MIDD_T2	0	0	0	0	0	0	-0.12	-0.1	0	0	0	0	0	0
5/21/2024 10:00	64702	LITI_T2	0	0	0	0	0	0	-0.34	-0.15	0	0	0	0	0	0
5/21/2024 10:00	57001	WHIH_T2	0	0	0	0	0	0	-0.06	-0.03	0	0	0	0	0	0
5/21/2024 10:00	54203	PENN_T1	18	18	0	0.73	0.95	0.22	0.45	0.54	0	0	0	0	0	0
5/21/2024 10:00	58401	MORO_T1	1	0	-1	0.4	0	-0.4	-0.92	-0.7	2	2	0	1200	1200	0
5/21/2024 10:00	58003	WCAR_T1	3	1	-2	0.53	0.9	0.37	0.95	1.05	0	0	0	0	0	0
5/21/2024 10:00	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 10:01	67703	WERN_T2	0	0	0	0	0	0	0.05	0.07	1	1	0	900	900	0
5/21/2024 10:02	45901	AUBU_T1	0	0	0	0	0	0	2.36	1.16	0	0	0	0	0	0
5/21/2024 10:02	45902	AUBU_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/21/2024 10:07	54206	PENN_T2	0	0	0	0	0	0	0.41	0.5	0	0	0	0	0	0
5/21/2024 10:07	42902	MIDD_T2	0	0	0	0	0	0	-0.24	-0.2	0	0	0	0	0	0
5/21/2024 10:07	42903	MIDD_T2	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
5/21/2024 10:08	26603	BROO_T1	0	1	1	0	0	0	0.07	0.1	0	0	0	0	0	0
5/21/2024 10:08	20401	ASHF_T2	1	4	3	0.7	0.15	-0.55	0	0.03	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/21/2024 10:08	66502	SMAN_T2	2	2	0	0.55	0.2	-0.35	0.52	0.44	0	0	0	0	0	0
5/21/2024 10:08	20403	ASHF_T2	16	12	-4	0.42	0.53	0.11	0	0	0	0	0	0	0	0
5/21/2024 10:08	66505	SMAN_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
5/21/2024 10:08	20402	ASHF_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
5/21/2024 10:09	44601	SALE_T2	0	0	0	0	0	0	0.3	0.34	1	1	0	600	600	0
5/21/2024 10:09	29402	BELT_T1	2	2	0	4.15	4.2	0.05	0	0	0	0	0	0	0	0
5/21/2024 10:09	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 10:09	26603	BROO_T1	0	1	1	0	0	0	0.1	0.1	0	0	0	0	0	0
5/21/2024 10:10	10801	CHHI_T1	4	4	0	0.4	0.43	0.03	-1.07	-0.85	2	2	0	1500	1500	0
5/21/2024 10:10	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 10:10	29402	BELT_T1	2	2	0	4.15	4.2	0.05	0	0	0	0	0	0	0	0
5/21/2024 10:10	20402	ASHF_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
5/21/2024 10:10	20401	ASHF_T2	1	4	3	0.7	0.15	-0.55	0	0	0	0	0	0	0	0
5/21/2024 10:10	67703	WERN_T2	0	0	0	0	0	0	0.07	0.15	1	1	0	900	900	0
5/21/2024 10:10	20403	ASHF_T2	16	12	-4	0.42	0.53	0.11	0.58	0.56	0	0	0	0	0	0
5/21/2024 10:11	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 10:11	29402	BELT_T1	2	2	0	4.15	4.2	0.05	0	0	0	0	0	0	0	0
5/21/2024 10:12	44301	BEAV_T2	1	2	1	1.2	0.55	-0.65	1.2	1.02	4	4	0	3000	3000	0
5/21/2024 10:12	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 10:12	29402	BELT_T1	2	2	0	4.15	4.2	0.05	0	0	0	0	0	0	0	0
5/21/2024 10:13	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 10:13	62607	ENGL_T1	0	0	0	0	0	0	-0.56	-0.55	0	0	0	0	0	0
5/21/2024 10:13	47203	FAXO_T2	0	0	0	0	0	0	-1.28	-1.21	1	1	0	1200	1200	0
5/21/2024 10:13	62605	ENGL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/21/2024 10:13	29402	BELT_T1	2	2	0	4.15	4.2	0.05	0	0	0	0	0	0	0	0
5/21/2024 10:14	29402	BELT_T1	2	2	0	4.15	4.2	0.05	0	0	0	0	0	0	0	0
5/21/2024 10:14	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 10:14	10805	CHHI_T2	5	0	0	2.36	5.4	3.04	-0.94	-0.91	2	2	0	1200	1200	0
5/21/2024 10:14	62607	ENGL_T1	0	0	0	0	0	0	-0.56	-0.55	0	0	0	0	0	0
5/21/2024 10:14	62605	ENGL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/21/2024 10:15	47001	HUGH_T2	1	1	0	0.4	0.2	-0.2	-1.06	-1.03	0	0	0	0	0	0
5/21/2024 10:15	23201	HIRU_T2	2	5	3	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
5/21/2024 10:15	64702	LITI_T2	0	0	0	0	0	0	-0.15	-0.1	0	0	0	0	0	0
5/21/2024 10:15	45501	DERR_T2	1	1	0	0.5	0.5	0	1.66	1.64	4	4	0	3600	3600	0
5/21/2024 10:15	23202	HIRU_T2	1	3	2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/21/2024 10:15	23203	HIRU_T2	3	5	2	0.13	0.18	0.05	0.15	0.12	0	0	0	0	0	0
5/21/2024 10:16	23202	HIRU_T2	1	3	2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/21/2024 10:16	23203	HIRU_T2	3	5	2	0.13	0.18	0.05	0.15	0.12	0	0	0	0	0	0
5/21/2024 10:16	23201	HIRU_T2	2	5	3	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
5/21/2024 10:17	12601	MACA_T1	1	2	1	1.1	0.9	-0.2	1	0.88	0	0	0	0	0	0
5/21/2024 10:17	40101	HUNT_T2	1	3	2	0.2	0.3	0.1	-0.31	0	0	0	0	0	0	0
5/21/2024 10:18	65002	NEFF_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
5/21/2024 10:18	65004	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/21/2024 10:18	47001	HUGH_T2	1	1	0	0.4	0.2	-0.2	-0.53	-0.52	0	0	0	0	0	0
5/21/2024 10:18	65001	NEFF_T2	0	0	0	0	0	0	0.15	0.07	1	1	0	1200	1200	0
5/21/2024 10:18	66502	SMAN_T2	1	2	1	0.1	0.2	0.1	0.52	0.44	0	0	0	0	0	0
5/21/2024 10:20	46302	ROHR_T1	4	6	2	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
5/21/2024 10:20	67201	TEHI_T1	7	13	6	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/21/2024 10:20	65205	PRIN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/21/2024 10:20	46301	ROHR_T1	5	6	1	0.26	0.43	0.17	0.26	0.25	0	0	0	0	0	0
5/21/2024 10:20	67203	TEHI_T1	3	4	1	0.5	0	-0.5	2.8	2.9	2	3	1	1200	2100	900
5/21/2024 10:21	67201	TEHI_T1	7	13	6	0.5	0.2	-0.3	1.82	1.9	1	1	0	600	600	0
5/21/2024 10:21	67605	WARW_T1	13	13	0	0.48	0.39	-0.09	-0.91	-0.83	0	0	0	0	0	0
5/21/2024 10:21	15703	TANN_T2	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
5/21/2024 10:21	67603	WARW_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/21/2024 10:21	67203	TEHI_T1	3	4	1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/21/2024 10:21	15702	TANN_T2	5	6	1	0.3	0.37	0.07	-0.27	-0.24	0	0	0	0	0	0
5/21/2024 10:22	67603	WARW_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/21/2024 10:22	67605	WARW_T1	13	13	0	0.48	0.39	-0.09	-0.91	-0.83	0	0	0	0	0	0
5/21/2024 10:22	45902	AUBU_T1	1	1	0	0.1	0.7	0.6	-0.27	-0.23	1	1	0	600	600	0
5/21/2024 10:23	66502	SMAN_T2	1	2	1	0.1	0.2	0.1	0.44	0.39	0	0	0	0	0	0
5/21/2024 10:23	67401	WAKE_T2	22	5	-17	0.24	0.4	0.16	-0.69	-0.89	0	0	0	0	0	0
5/21/2024 10:23	57205	ROSS_T1	1	1	0	1.6	1.5	-0.1	0.48	0.48	0	0	0	0	0	0
5/21/2024 10:23	15702	TANN_T2	5	6	1	0.3	0.37	0.07	-0.54	-0.48	0	0	0	0	0	0
5/21/2024 10:23	67605	WARW_T1	13	13	0	0.48	0.39	-0.09	0	0	0	0	0	0	0	0
5/21/2024 10:23	67402	WAKE_T2	1	0	-1	0.1	0	-0.1	1.24	1.24	1	0	-1	600	0	-600
5/21/2024 10:23	67603	WARW_T1	0	2	2	0	0.4	0.4	0.15	0.15	0	0	0	0	0	0
5/21/2024 10:23	15703	TANN_T2	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
5/21/2024 10:24	45902	AUBU_T1	1	1	0	0.1	0.7	0.6	-0.46	-0.65	2	2	0	1200	1200	0
5/21/2024 10:24	67401	WAKE_T2	22	5	-17	0.24	0.4	0.16	-0.69	-0.89	0	0	0	0	0	0
5/21/2024 10:24	67605	WARW_T1	13	13	0	0.48	0.39	-0.09	-1.66	-1.62	0	0	0	0	0	0
5/21/2024 10:24	67603	WARW_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/21/2024 10:24	67402	WAKE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/21/2024 10:24	48302	ORWI_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
5/21/2024 10:24	55105	WERT_T1	0	0	0	0	0	0	-0.1	-0.09	1	1	0	900	900	0
5/21/2024 10:25	67605	WARW_T1	13	13	0	0.48	0.39	-0.09	-0.83	-0.81	0	0	0	0	0	0
5/21/2024 10:25	67603	WARW_T1	0	2	2	0	0.4	0.4	0.15	0.15	0	0	0	0	0	0
5/21/2024 10:25	59101	WALK_T2	0	0	0	0	0	0	1.29	1.41	0	0	0	0	0	0
5/21/2024 10:25	51101	CARL_T1	0	0	0	0	0	0	-0.61	-0.68	1	1	0	600	600	0
5/21/2024 10:25	59102	WALK_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/21/2024 10:25	45902	AUBU_T1	1	1	0	0.1	0.7	0.6	-0.23	-0.33	1	1	0	600	600	0
5/21/2024 10:25	51102	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/21/2024 10:25	67803	WLAN_T1	0	1	1	0	0.1	0.1	-0.7	-0.71	0	0	0	0	0	0
5/21/2024 10:25	67804	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 10:26	67605	WARW_T1	13	13	0	0.48	0.39	-0.09	-1.66	-1.62	0	0	0	0	0	0
5/21/2024 10:26	56802	BENV_T2	13	46	33	0.53	0.33	-0.2	-1.06	-2.32	0	0	0	0	0	0
5/21/2024 10:26	67603	WARW_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/21/2024 10:26	45902	AUBU_T1	1	1	0	0.1	0.7	0.6	-0.23	-0.33	1	1	0	600	600	0
5/21/2024 10:27	56802	BENV_T2	13	46	33	0.53	0.33	-0.2	-0.53	-1.16	0	0	0	0	0	0
5/21/2024 10:28	52403	GRPA_T2	4	4	0	0.43	0.58	0.15	0.28	0.28	0	0	0	0	0	0
5/21/2024 10:28	52402	GRPA_T2	6	6	0	0.45	0.42	-0.03	0	0	0	0	0	0	0	0
5/21/2024 10:28	17802	GILB_T1	2	3	1	0.7	0.63	-0.07	0.18	0.19	0	0	0	0	0	0
5/21/2024 10:28	41801	GOCI_T2	4	4	0	0.38	0.48	0.1	0	0	0	0	0	0	0	0
5/21/2024 10:28	40101	HUNT_T2	1	3	2	0.2	0.3	0.1	0	0.1	0	0	0	0	0	0
5/21/2024 10:28	56802	BENV_T2	13	46	33	0.53	0.33	-0.2	-0.53	-1.16	0	0	0	0	0	0
5/21/2024 10:29	14207	EALL_T1	0	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0
5/21/2024 10:29	56802	BENV_T2	13	46	33	0.53	0.33	-0.2	-0.53	-1.16	0	0	0	0	0	0
5/21/2024 10:29	14203	EALL_T1	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
5/21/2024 10:29	14201	EALL_T1	0	31	31	0	0	0	-0.41	-0.38	0	0	0	0	0	0
5/21/2024 10:30	56801	BENV_T1	7	9	2	1.29	1.14	-0.15	0.04	-0.01	1	1	0	600	600	0
5/21/2024 10:30	52403	GRPA_T2	4	4	0	0.53	0.53	0	0.28	0.28	0	0	0	0	0	0
5/21/2024 10:30	52402	GRPA_T2	6	2	-4	0.42	0.35	-0.07	-0.81	-0.8	0	0	0	0	0	0
5/21/2024 10:30	17802	GILB_T1	3	3	0	0.57	0.5	-0.07	0.18	0.19	0	0	0	0	0	0
5/21/2024 10:30	56803	BENV_T1	6	5	-1	1.1	1.02	-0.08	-0.06	-0.07	0	0	0	0	0	0
5/21/2024 10:30	56802	BENV_T2	8	46	38	0.49	0.33	-0.16	-1.59	-3.48	0	0	0	0	0	0
5/21/2024 10:32	17805	GILB_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/21/2024 10:32	13501	MCMI_T1	0	0	0	0	0	0	0.12	0.17	0	0	0	0	0	0
5/21/2024 10:32	52402	GRPA_T2	6	2	-4	0.42	0.35	-0.07	0	0	0	0	0	0	0	0
5/21/2024 10:32	13502	MCMI_T1	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/21/2024 10:32	52403	GRPA_T2	4	4	0	0.53	0.53	0	0.28	0.28	0	0	0	0	0	0
5/21/2024 10:32	17804	GILB_T2	2	4	2	0.6	0.4	-0.2	-0.54	-0.45	0	0	0	0	0	0
5/21/2024 10:34	52402	GRPA_T2	6	2	-4	0.42	0.35	-0.07	-0.81	-0.8	0	0	0	0	0	0
5/21/2024 10:34	64802	MONE_T2	21	10	-11	0.33	0.4	0.07	0.42	0.42	0	0	0	0	0	0
5/21/2024 10:34	64801	MONE_T2	4	4	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
5/21/2024 10:34	43201	MVIL_T2	0	0	0	0	0	0	-0.27	-0.32	0	0	0	0	0	0
5/21/2024 10:34	52403	GRPA_T2	4	4	0	0.53	0.53	0	0	0	0	0	0	0	0	0
5/21/2024 10:35	13501	MCMI_T1	0	0	0	0	0	0	0.24	0.34	0	0	0	0	0	0
5/21/2024 10:35	13704	SCHN_T2	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
5/21/2024 10:35	13502	MCMI_T1	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/21/2024 10:36	64101	REFR_T1	1	1	0	0.2	0.4	0.2	0.05	0.05	0	0	0	0	0	0
5/21/2024 10:37	64101	REFR_T1	1	1	0	0.2	0.4	0.2	0.1	0.09	0	0	0	0	0	0
5/21/2024 10:38	64101	REFR_T1	1	1	0	0.2	0.4	0.2	0.09	0.2	0	0	0	0	0	0
5/21/2024 10:39	64101	REFR_T1	1	1	0	0.2	0.4	0.2	0.09	0.2	0	0	0	0	0	0
5/21/2024 10:40	44301	BEAV_T2	2	3	1	0.7	0.3	-0.4	0.24	0.31	2	2	0	1500	1500	0
5/21/2024 10:41	53601	DALM_T2	1	1	0	0.5	0.4	-0.1	-0.07	-0.1	1	1	0	900	900	0
5/21/2024 10:41	64101	REFR_T1	1	1	0	0.2	0.4	0.2	0.19	0.4	0	0	0	0	0	0
5/21/2024 10:42	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.71	-0.68	0	0	0	0	0	0
5/21/2024 10:42	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/21/2024 10:44	44301	BEAV_T2	2	3	1	0.7	0.3	-0.4	0.24	0.31	2	2	0	1500	1500	0
5/21/2024 10:45	25501	MADI_T1	1	2	1	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
5/21/2024 10:45	25503	MADI_T1	5	17	12	0.14	0.17	0.03	-0.85	-0.87	0	0	0	0	0	0
5/21/2024 10:45	25502	MADI_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/21/2024 10:47	64902	MILL_T2	0	0	0	0	0	0	-0.27	-0.3	1	1	0	900	900	0
5/21/2024 10:51	54602	SUMM_T2	0	0	0	0	0	0	-2.12	-2.11	1	1	0	600	600	0
5/21/2024 10:52	66701	STRA_T1	1	1	0	0.1	0.3	0.2	0.19	0.31	1	1	0	600	600	0
5/21/2024 10:52	64904	MILL_T1	1	1	0	0.1	0.3	0.2	-0.1	-0.04	0	0	0	0	0	0
5/21/2024 10:53	66701	STRA_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/21/2024 10:53	66703	STRA_T1	0	0	0	0	0	0	0.23	0.35	0	0	0	0	0	0
5/21/2024 10:53	60102	COCA_T1	1	0	-1	0.2	0	-0.2	-0.84	-0.86	3	3	0	2100	2100	0
5/21/2024 10:53	60101	COCA_T1	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
5/21/2024 10:54	58003	WCAR_T1	1	2	1	0.2	0.4	0.2	2.06	2.1	0	0	0	0	0	0
5/21/2024 10:54	67702	WERN_T2	0	1	1	0	0.2	0.2	0.03	0.03	0	0	0	0	0	0
5/21/2024 10:54	58001	WCAR_T1	3	3	0	0.13	0.2	0.07	0	0	0	0	0	0	0	0
5/21/2024 10:55	45902	AUBU_T1	1	1	0	0.7	0.9	0.2	-0.3	-0.32	1	1	0	600	600	0
5/21/2024 10:55	58006	WCAR_T2	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
5/21/2024 10:57	16102	BING_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/21/2024 10:57	16103	BING_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/21/2024 10:57	21206	ECAR_T2	1	1	0	6.9	6.9	0	0.6	0.61	0	0	0	0	0	0
5/21/2024 10:57	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 10:57	16101	BING_T2	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
5/21/2024 10:58	17803	GILB_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 10:58	17805	GILB_T2	1	1	0	0.3	0.1	-0.2	0.28	0.29	0	0	0	0	0	0
5/21/2024 10:58	45902	AUBU_T1	1	1	0	0.7	0.9	0.2	-0.3	-0.32	1	1	0	600	600	0
5/21/2024 10:58	17804	GILB_T2	3	4	1	0.4	0.4	0	0	0	0	0	0	0	0	0
5/21/2024 10:59	16103	BING_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/21/2024 10:59	24102	EHAZ_T1	5	2	-3	0.64	1.1	0.46	0	0	0	0	0	0	0	0
5/21/2024 10:59	24101	EHAZ_T1	1	21	20	0.2	0.7	0.5	0	0	0	0	0	0	0	0
5/21/2024 10:59	24104	EHAZ_T1	2	3	1	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
5/21/2024 10:59	16102	BING_T2	1	1	0	0.3	0.4	0.1	0.26	0.27	1	1	0	1200	1200	0
5/21/2024 10:59	24105	EHAZ_T1	4	4	0	5.58	5.7	0.12	-1.68	-1.61	1	1	0	1200	1200	0
5/21/2024 10:59	17804	GILB_T2	3	4	1	0.4	0.4	0	0	0	0	0	0	0	0	0
5/21/2024 10:59	17805	GILB_T2	1	1	0	0.3	0.1	-0.2	0.28	0.29	0	0	0	0	0	0
5/21/2024 10:59	17803	GILB_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/21/2024 11:00	17805	GILB_T2	1	1	0	0.1	0.1	0	0.28	0.29	0	0	0	0	0	0
5/21/2024 11:00	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 11:00	17804	GILB_T2	4	4	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
5/21/2024 11:00	21206	ECAR_T2	1	10	9	6.9	7.3	0.4	0.6	0.61	0	0	0	0	0	0
5/21/2024 11:01	58402	MORO_T1	0	0	0	0	0	0	-0.8	-0.75	3	3	0	2400	2400	0
5/21/2024 11:01	40101	HUNT_T2	3	8	5	0.17	0.7	0.53	0	-0.07	0	0	0	0	0	0
5/21/2024 11:02	17805	GILB_T2	1	1	0	0.1	0.1	0	0.28	0.29	0	0	0	0	0	0
5/21/2024 11:02	17804	GILB_T2	4	4	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
5/21/2024 11:02	58401	MORO_T1	0	0	0	0	0	0	-1.3	-1.18	2	2	0	1500	1500	0
5/21/2024 11:02	58402	MORO_T1	0	0	0	0	0	0	-0.8	-0.75	3	3	0	2400	2400	0
5/21/2024 11:05	58402	MORO_T1	0	0	0	0	0	0	-0.8	-0.75	3	3	0	2400	2400	0
5/21/2024 11:06	46301	ROHR_T1	8	6	-2	0.61	0.48	-0.13	0	0	0	0	0	0	0	0
5/21/2024 11:06	57403	SPAN_T1	1	2	1	0.4	1.9	1.5	0	0	0	0	0	0	0	0
5/21/2024 11:06	58401	MORO_T1	0	0	0	0	0	0	-2.59	-2.36	4	4	0	3000	3000	0
5/21/2024 11:06	57401	SPAN_T1	1	0	-1	0.1	0	-0.1	-0.6	-0.65	1	1	0	600	600	0
5/21/2024 11:06	42201	SHEN_T2	0	1	1	0	0.2	0.2	-0.05	-0.03	1	1	0	600	600	0
5/21/2024 11:06	46302	ROHR_T1	5	6	1	1.46	1.3	-0.16	0.18	0.23	0	0	0	0	0	0
5/21/2024 11:06	65904	SAKR_T2	1	0	-1	0.1	0	-0.1	-1.46	-1.49	3	3	0	1500	1500	0
5/21/2024 11:06	65901	SAKR_T2	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
5/21/2024 11:07	46302	ROHR_T1	5	6	1	1.46	1.3	-0.16	0.18	0.23	0	0	0	0	0	0
5/21/2024 11:07	46301	ROHR_T1	8	6	-2	0.61	0.48	-0.13	0	0	0	0	0	0	0	0
5/21/2024 11:08	66703	STRA_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
5/21/2024 11:08	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 11:08	14404	SSLA_T1	2	2	0	2.6	2.75	0.15	0	0	0	0	0	0	0	0
5/21/2024 11:08	66701	STRA_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/21/2024 11:08	14401	SSLA_T1	2	2	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
5/21/2024 11:08	14403	SSLA_T1	4	4	0	0.23	0.55	0.32	0.98	0.95	0	0	0	0	0	0
5/21/2024 11:08	14402	SSLA_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
5/21/2024 11:08	64101	REFR_T1	1	1	0	0.4	0.8	0.4	0.27	0.36	0	0	0	0	0	0
5/21/2024 11:08	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 11:09	43301	WATS_T2	0	1	1	0	0	0	0	0	1	1	0	900	900	0
5/21/2024 11:10	64101	REFR_T1	1	1	0	0.4	0.8	0.4	0.09	0.12	0	0	0	0	0	0
5/21/2024 11:11	59101	WALK_T2	0	0	0	0	0	0	0.47	0.55	0	0	0	0	0	0
5/21/2024 11:12	64101	REFR_T1	1	1	0	0.4	0.8	0.4	0.09	0.12	0	0	0	0	0	0
5/21/2024 11:12	67702	WERN_T2	0	1	1	0	0.2	0.2	0.03	0.03	0	0	0	0	0	0
5/21/2024 11:13	64101	REFR_T1	1	1	0	0.4	0.8	0.4	0.09	0.12	0	0	0	0	0	0
5/21/2024 11:13	43301	WATS_T2	0	1	1	0	0	0	0	0	1	1	0	900	900	0
5/21/2024 11:14	40101	HUNT_T2	3	8	5	0.17	0.7	0.53	-0.07	-0.05	0	0	0	0	0	0
5/21/2024 11:15	40101	HUNT_T2	1	8	7	0.8	0	-0.8	-0.07	-0.05	0	0	0	0	0	0
5/21/2024 11:15	64101	REFR_T1	1	1	0	0.8	0.8	0	0.09	0.12	0	0	0	0	0	0
5/21/2024 11:21	46301	ROHR_T1	6	14	8	0.47	0.61	0.14	0.28	0.28	0	0	0	0	0	0
5/21/2024 11:21	23001	SAJO_T1	0	0	0	0	0	0	0.17	0.3	0	0	0	0	0	0
5/21/2024 11:21	46302	ROHR_T1	6	6	0	1.12	1.43	0.31	0	0	0	0	0	0	0	0
5/21/2024 11:21	23002	SAJO_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
5/21/2024 11:23	46302	ROHR_T1	6	6	0	1.12	1.43	0.31	0	0	0	0	0	0	0	0
5/21/2024 11:23	13903	SEID_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/21/2024 11:23	46301	ROHR_T1	6	14	8	0.47	0.61	0.14	0.28	0.28	0	0	0	0	0	0
5/21/2024 11:23	13905	SEID_T1	0	0	0	0	0	0	0.56	0.6	0	0	0	0	0	0
5/21/2024 11:24	67502	WEWI_T2	3	3	0	0.93	0.9	-0.03	-0.89	-0.9	1	1	0	900	900	0
5/21/2024 11:24	56503	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 11:24	56501	ROCK_T2	3	3	0	0.33	0.37	0.04	83.96	83.96	0	0	0	0	0	0
5/21/2024 11:24	67503	WEWI_T2	0	0	0	0	0	0	0.74	0.79	0	0	0	0	0	0
5/21/2024 11:24	56504	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/21/2024 11:25	44301	BEAV_T2	2	6	4	0.45	0.63	0.18	0.52	0.38	2	2	0	1500	1500	0
5/21/2024 11:25	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/21/2024 11:25	67801	WLAN_T1	0	0	0	0	0	0	0.61	0	0	0	0	0	0	0
5/21/2024 11:26	16103	BING_T2	1	1	0	0.1	0.5	0.4	-0.69	-0.73	1	1	0	600	600	0
5/21/2024 11:26	16102	BING_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
5/21/2024 11:26	44301	BEAV_T2	2	6	4	0.45	0.63	0.18	0.52	0.38	2	2	0	1500	1500	0
5/21/2024 11:26	16101	BING_T2	1	2	1	10	5.05	-4.95	0	0	0	0	0	0	0	0
5/21/2024 11:27	67502	WEWI_T2	3	3	0	0.93	0.9	-0.03	-1.78	-1.8	2	2	0	1800	1800	0
5/21/2024 11:27	52403	GRPA_T2	4	6	2	0.6	0.43	-0.17	0.37	0.35	0	0	0	0	0	0
5/21/2024 11:27	52402	GRPA_T2	7	6	-1	0.74	0.22	-0.52	0	0	0	0	0	0	0	0
5/21/2024 11:27	44301	BEAV_T2	2	6	4	0.45	0.63	0.18	0.52	0.38	2	2	0	1500	1500	0
5/21/2024 11:28	44301	BEAV_T2	2	6	4	0.45	0.63	0.18	1.04	0.76	4	4	0	3000	3000	0
5/21/2024 11:29	44301	BEAV_T2	2	6	4	0.45	0.63	0.18	0.52	0.38	2	2	0	1500	1500	0
5/21/2024 11:30	52403	GRPA_T2	5	7	2	0.36	0.5	0.14	0.37	0.35	0	0	0	0	0	0
5/21/2024 11:30	52402	GRPA_T2	3	6	3	0.3	0.3	0	0	0	0	0	0	0	0	0
5/21/2024 11:30	40101	HUNT_T2	8	1	-7	0.25	0	-0.25	-0.05	-0.33	0	0	0	0	0	0
5/21/2024 11:31	55002	NEWP_T1	9	7	-2	0.8	0.96	0.16	-0.1	-0.1	0	0	0	0	0	0
5/21/2024 11:31	55001	NEWP_T1	1	2	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
5/21/2024 11:32	25402	LAHA_T2	2	2	0	0.6	0.6	0	-0.35	-0.28	0	0	0	0	0	0
5/21/2024 11:32	40101	HUNT_T2	8	1	-7	0.25	0	-0.25	-0.05	-0.33	0	0	0	0	0	0
5/21/2024 11:32	55002	NEWP_T1	9	7	-2	0.8	0.96	0.16	-0.2	-0.2	0	0	0	0	0	0
5/21/2024 11:32	55001	NEWP_T1	1	2	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
5/21/2024 11:33	52402	GRPA_T2	3	6	3	0.3	0.3	0	0	0	0	0	0	0	0	0
5/21/2024 11:33	52403	GRPA_T2	5	7	2	0.36	0.5	0.14	0.37	0.35	0	0	0	0	0	0
5/21/2024 11:33	59301	MCAL_T1	0	6	6	0	0.32	0.32	0	0	0	0	0	0	0	0
5/21/2024 11:33	59302	MCAL_T1	0	4	4	0	0.17	0.17	0.32	0.28	1	1	0	600	600	0
5/21/2024 11:34	16402	MOPO_T1	0	1	1	0	0.6	0.6	0.43	0.45	0	0	0	0	0	0
5/21/2024 11:35	55001	NEWP_T1	1	2	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
5/21/2024 11:35	55002	NEWP_T1	9	7	-2	0.8	0.96	0.16	-0.2	-0.2	0	0	0	0	0	0
5/21/2024 11:36	56501	ROCK_T2	3	1	-2	0.37	0.3	-0.07	83.96	83.96	0	0	0	0	0	0
5/21/2024 11:36	56504	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/21/2024 11:37	57401	SPAN_T1	0	0	0	0	0	0	-0.62	-0.56	1	1	0	600	600	0
5/21/2024 11:37	57403	SPAN_T1	2	1	-1	1.9	0.1	-1.8	0	0	0	0	0	0	0	0
5/21/2024 11:39	55002	NEWP_T1	9	7	-2	0.8	0.96	0.16	-0.1	-0.07	0	0	0	0	0	0
5/21/2024 11:39	55001	NEWP_T1	1	2	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
5/21/2024 11:41	60101	COCA_T1	2	2	0	0.65	0.5	-0.15	0.66	0.68	0	0	0	0	0	0
5/21/2024 11:44	52402	GRPA_T2	3	6	3	0.3	0.3	0	0	0	0	0	0	0	0	0
5/21/2024 11:44	52403	GRPA_T2	5	7	2	0.36	0.5	0.14	0.35	0.34	0	0	0	0	0	0
5/21/2024 11:45	64702	LITI_T2	0	0	0	0	0	0	-0.16	-0.02	0	0	0	0	0	0
5/21/2024 11:46	27102	GFLD_T2	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0	0
5/21/2024 11:46	27101	GFLD_T2	0	1	1	0	0	0	-0.17	-0.64	0	0	0	0	0	0
5/21/2024 11:49	42802	SELI_T1	0	0	0	0	0	0	-3.04	-3.14	2	2	0	1800	1800	0
5/21/2024 11:50	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/21/2024 11:50	66502	SMAN_T2	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/21/2024 11:50	66504	SMAN_T2	0	0	0	0	0	0	0.25	0.18	0	0	0	0	0	0
5/21/2024 11:52	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/21/2024 11:52	50701	SMEC_T1	2	6	4	0.15	0.68	0.53	0.94	-0.14	0	0	0	0	0	0
5/21/2024 11:52	66504	SMAN_T2	0	0	0	0	0	0	0.75	0.55	0	0	0	0	0	0
5/21/2024 11:52	66502	SMAN_T2	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/21/2024 11:53	13606	RICH_T2	1	1	0	8	7.9	-0.1	1.84	1.86	0	0	0	0	0	0
5/21/2024 11:54	50701	SMEC_T1	2	6	4	0.15	0.68	0.53	-0.14	-0.2	0	0	0	0	0	0
5/21/2024 11:56	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 11:57	45402	WBLO_T2	3	3	0	0.63	0.6	-0.03	-1.29	-1.28	1	1	0	900	900	0
5/21/2024 11:57	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/21/2024 11:57	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 11:57	14801	TREI_T2	3	4	1	0.67	0.58	-0.09	0.67	0.74	0	0	0	0	0	0
5/21/2024 11:57	14802	TREI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/21/2024 11:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 11:59	46802	HEPB_T1	1	1	0	0.1	0.1	0	0.08	0.08	0	0	0	0	0	0
5/21/2024 11:59	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 12:01	57301	MOAL_T2	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
5/21/2024 12:01	57303	MOAL_T2	1	1	0	7.8	7.6	-0.2	0	0	0	0	0	0	0	0
5/21/2024 12:01	57304	MOAL_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
5/21/2024 12:01	57306	MOAL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/21/2024 12:01	12704	MACU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 12:01	12701	MACU_T1	0	2	2	0	0	0	0.21	0.2	0	0	0	0	0	0
5/21/2024 12:02	46801	HEPB_T2	0	0	0	0	0	0	1.01	1.08	0	0	0	0	0	0
5/21/2024 12:02	25402	LAHA_T2	2	2	0	0.4	0.4	0	-0.27	-0.59	0	0	0	0	0	0
5/21/2024 12:02	46803	HEPB_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
5/21/2024 12:04	46803	HEPB_T2	1	1	0	0.6	0.9	0.3	0.65	0.6	0	0	0	0	0	0
5/21/2024 12:04	12704	MACU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 12:04	12701	MACU_T1	0	2	2	0	0	0	0.21	0.2	0	0	0	0	0	0
5/21/2024 12:05	59302	MCAL_T1	4	3	-1	0.45	0.45	0	-0.21	-0.41	1	1	0	600	600	0
5/21/2024 12:05	59301	MCAL_T1	6	6	0	0.32	0.67	0.35	0	0	0	0	0	0	0	0
5/21/2024 12:05	54201	PENN_T1	7	8	1	0.67	0.86	0.19	-0.62	-0.6	0	0	0	0	0	0
5/21/2024 12:05	54203	PENN_T1	5	13	8	0.4	0.39	-0.01	0	0	0	0	0	0	0	0
5/21/2024 12:06	57403	SPAN_T1	0	1	1	0	0.7	0.7	0.14	0.14	0	0	0	0	0	0
5/21/2024 12:08	57403	SPAN_T1	0	1	1	0	0.7	0.7	0.14	0.2	0	0	0	0	0	0
5/21/2024 12:10	14404	SSLA_T1	2	2	0	2.55	2.6	0.05	0.32	0.32	0	0	0	0	0	0
5/21/2024 12:10	64101	REFR_T1	1	1	0	0.9	0.8	-0.1	0.15	0.15	0	0	0	0	0	0
5/21/2024 12:10	14401	SSLA_T1	2	2	0	0.85	1.15	0.3	0	0	0	0	0	0	0	0
5/21/2024 12:10	14403	SSLA_T1	3	3	0	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
5/21/2024 12:10	67702	WERN_T2	1	1	0	0.3	0.4	0.1	0.18	0.22	0	0	0	0	0	0
5/21/2024 12:10	14402	SSLA_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
5/21/2024 12:11	64101	REFR_T1	1	1	0	0.9	0.8	-0.1	0.31	0.31	0	0	0	0	0	0
5/21/2024 12:11	67702	WERN_T2	1	1	0	0.3	0.4	0.1	0.18	0.22	0	0	0	0	0	0
5/21/2024 12:12	64101	REFR_T1	1	1	0	0.9	0.8	-0.1	0.31	0.31	0	0	0	0	0	0
5/21/2024 12:13	53902	HALI_T2	3	3	0	2.1	2.07	-0.03	0	0	0	0	0	0	0	0
5/21/2024 12:13	53903	HALI_T2	6	9	3	0.83	0.81	-0.02	-0.05	-0.03	0	0	0	0	0	0
5/21/2024 12:13	53901	HALI_T2	3	1	-2	0.3	0.5	0.2	-1.2	-1.18	0	0	0	0	0	0
5/21/2024 12:13	44301	BEAV_T2	8	12	4	0.76	0.61	-0.15	-0.57	-0.37	2	2	0	1500	1500	0
5/21/2024 12:13	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/21/2024 12:13	23901	EFMO_T2	0	1	1	0	0.2	0.2	0.1	0.12	0	0	0	0	0	0
5/21/2024 12:14	53902	HALI_T2	3	3	0	2.1	2.07	-0.03	0	0	0	0	0	0	0	0
5/21/2024 12:14	53901	HALI_T2	3	1	-2	0.3	0.5	0.2	-3.6	-3.53	0	0	0	0	0	0
5/21/2024 12:14	60101	COCA_T1	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
5/21/2024 12:14	63302	GREE_T1	0	0	0	0	0	0	0.86	0.88	0	0	0	0	0	0
5/21/2024 12:14	64101	REFR_T1	1	1	0	0.9	0.8	-0.1	0.15	0.15	0	0	0	0	0	0
5/21/2024 12:14	60102	COCA_T1	0	0	0	0	0	0	-1.01	-1	3	3	0	2100	2100	0
5/21/2024 12:14	14801	TREI_T2	3	4	1	0.5	0.58	0.08	0	0	0	0	0	0	0	0
5/21/2024 12:14	14802	TREI_T2	1	0	-1	0.5	0	-0.5	0.8	0.77	0	0	0	0	0	0
5/21/2024 12:14	53903	HALI_T2	6	9	3	0.83	0.81	-0.02	-0.05	-0.03	0	0	0	0	0	0
5/21/2024 12:15	60101	COCA_T1	2	2	0	0.35	0.35	0	0.66	0.69	0	0	0	0	0	0
5/21/2024 12:16	60101	COCA_T1	2	2	0	0.35	0.35	0	0.66	0.69	0	0	0	0	0	0
5/21/2024 12:16	53902	HALI_T2	3	3	0	2.03	2.03	0	0	0	0	0	0	0	0	0
5/21/2024 12:16	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 12:16	53901	HALI_T2	1	1	0	0.4	0.5	0.1	-1.2	-1.18	0	0	0	0	0	0
5/21/2024 12:16	41602	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/21/2024 12:16	63306	GREE_T1	0	0	0	0	0	0	-1.75	-1.73	1	1	0	900	900	0
5/21/2024 12:16	53903	HALI_T2	7	9	2	0.76	0.81	0.05	-0.05	-0.03	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/21/2024 12:16	12703	MACU_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
5/21/2024 12:17	65501	MOJO_T1	0	1	1	0	0	0	-1.67	-1.73	2	2	0	1800	1800	0
5/21/2024 12:17	53501	EVIL_T2	6	6	0	0.88	0.87	-0.01	0	0	0	0	0	0	0	0
5/21/2024 12:17	53502	EVIL_T2	0	2	2	0	0	0	-0.04	-0.05	2	2	0	1200	1200	0
5/21/2024 12:18	53901	HALI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/21/2024 12:18	53903	HALI_T2	7	9	2	0.76	0.81	0.05	-0.05	-0.03	0	0	0	0	0	0
5/21/2024 12:18	53902	HALI_T2	3	3	0	2.03	2.03	0	0	0	0	0	0	0	0	0
5/21/2024 12:19	42902	MIDD_T2	1	1	0	1.7	0.4	-1.3	0	0	0	0	0	0	0	0
5/21/2024 12:19	53903	HALI_T2	7	9	2	0.76	0.81	0.05	0	0	0	0	0	0	0	0
5/21/2024 12:19	58402	MORO_T1	0	0	0	0	0	0	-0.84	-0.8	3	3	0	2400	2400	0
5/21/2024 12:19	44301	BEAV_T2	12	3	-9	0.61	0.95	0.34	-0.57	-0.37	2	2	0	1500	1500	0
5/21/2024 12:19	53901	HALI_T2	1	1	0	0.4	0.5	0.1	-1.2	-1.18	0	0	0	0	0	0
5/21/2024 12:19	42903	MIDD_T2	3	2	-1	1.23	0.95	-0.28	0.23	1.5	1	0	-1	1200	0	-1200
5/21/2024 12:19	44302	BEAV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 12:19	53902	HALI_T2	3	3	0	2.03	2.03	0	0	0	0	0	0	0	0	0
5/21/2024 12:24	13901	SEID_T1	0	0	0	0	0	0	-0.54	-0.52	1	1	0	1200	1200	0
5/21/2024 12:24	13905	SEID_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/21/2024 12:26	67803	WLAN_T1	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
5/21/2024 12:26	57004	WHHI_T2	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0
5/21/2024 12:26	67804	WLAN_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/21/2024 12:26	57003	WHHI_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/21/2024 12:27	64101	REFR_T1	1	1	0	0.8	0.6	-0.2	0.15	0.15	0	0	0	0	0	0
5/21/2024 12:27	12703	MACU_T2	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
5/21/2024 12:27	60902	DONG_T2	0	2	2	0	0.15	0.15	1.19	1.16	0	0	0	0	0	0
5/21/2024 12:27	14802	TREI_T2	0	0	0	0	0	0	0.77	0.76	0	0	0	0	0	0
5/21/2024 12:27	60901	DONG_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/21/2024 12:27	14801	TREI_T2	4	2	-2	0.58	0.65	0.07	0	0	0	0	0	0	0	0
5/21/2024 12:30	14801	TREI_T2	2	2	0	0.65	0.35	-0.3	0	0	0	0	0	0	0	0
5/21/2024 12:30	67402	WAKE_T2	0	0	0	0	0	0	0.91	0.93	0	0	0	0	0	0
5/21/2024 12:30	67401	WAKE_T2	4	2	-2	0.55	0.75	0.2	0	0	0	0	0	0	0	0
5/21/2024 12:30	14802	TREI_T2	0	1	1	0	0.1	0.1	0.77	0.76	0	0	0	0	0	0
5/21/2024 12:30	61301	EARL_T1	0	0	0	0	0	0	-1.24	-1.29	2	2	0	1800	1800	0
5/21/2024 12:30	61302	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/21/2024 12:31	12002	HATF_T1	1	1	0	1.4	1.5	0.1	1.04	1.1	0	0	0	0	0	0
5/21/2024 12:31	57003	WHHI_T2	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
5/21/2024 12:31	42903	MIDD_T2	2	2	0	0.95	0.85	-0.1	1.5	1.14	0	1	1	0	1200	1200
5/21/2024 12:31	42902	MIDD_T2	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
5/21/2024 12:31	57001	WHHI_T2	0	0	0	0	0	0	-0.97	-0.97	1	1	0	900	900	0
5/21/2024 12:31	12003	HATF_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 12:31	12007	HATF_T1	2	2	0	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
5/21/2024 12:32	63401	HONY_T1	0	0	0	0	0	0	0.57	0.61	1	1	0	600	600	0
5/21/2024 12:33	23901	EFMO_T2	1	0	-1	0.2	0	-0.2	0.06	0.05	0	0	0	0	0	0
5/21/2024 12:33	13302	ORVI_T2	2	2	0	0.55	0.35	-0.2	1.87	1.89	0	0	0	0	0	0
5/21/2024 12:33	65901	SAKR_T2	1	1	0	7.2	7.6	0.4	-0.4	-0.99	1	2	1	900	1500	600
5/21/2024 12:33	65604	QVIL_T2	0	0	0	0	0	0	0.59	0.55	0	0	0	0	0	0
5/21/2024 12:34	65603	QVIL_T2	0	0	0	0	0	0	0.53	0.86	0	0	0	0	0	0
5/21/2024 12:34	57006	WHHI_T2	0	0	0	0	0	0	0.77	0.72	1	1	0	600	600	0
5/21/2024 12:34	65604	QVIL_T2	0	0	0	0	0	0	0.59	0.55	0	0	0	0	0	0
5/21/2024 12:34	57003	WHHI_T2	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
5/21/2024 12:35	17002	RIRO_T2	3	4	1	0.87	0.55	-0.32	0.84	0.9	0	0	0	0	0	0
5/21/2024 12:36	57404	SPAN_T2	0	0	0	0	0	0	-0.01	-0.15	1	1	0	1200	1200	0
5/21/2024 12:39	57101	SPHI_T2	6	6	0	0.3	0.38	0.08	0	0	0	0	0	0	0	0
5/21/2024 12:39	57106	SPHI_T2	4	3	-1	0.78	0.5	-0.28	0	0	0	0	0	0	0	0
5/21/2024 12:39	57104	SPHI_T2	3	3	0	1.87	0.7	-1.17	-0.44	-0.41	1	1	0	900	900	0
5/21/2024 12:43	24104	EHAZ_T1	2	2	0	0.3	0.35	0.05	-0.63	-0.67	1	1	0	1200	1200	0
5/21/2024 12:43	22001	BOHE_T1	4	3	-1	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
5/21/2024 12:43	24103	EHAZ_T1	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
5/21/2024 12:43	22002	BOHE_T1	0	0	0	0	0	0	0.5	0.53	0	0	0	0	0	0
5/21/2024 12:43	24102	EHAZ_T1	7	7	0	1.27	0.93	-0.34	0	0	0	0	0	0	0	0
5/21/2024 12:43	24101	EHAZ_T1	6	22	16	0.25	0.3	0.05	0	0	0	0	0	0	0	0
5/21/2024 12:43	24105	EHAZ_T1	4	4	0	5.75	5.68	-0.07	0	0	0	0	0	0	0	0
5/21/2024 12:43	22003	BOHE_T1	11	7	-4	0.99	1.26	0.27	0	0	0	0	0	0	0	0
5/21/2024 12:44	20401	ASHF_T2	2	1	-1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
5/21/2024 12:44	20403	ASHF_T2	4	5	1	0.2	0.48	0.28	3.49	3.5	0	0	0	0	0	0
5/21/2024 12:45	10102	ALLE_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
5/21/2024 12:45	45502	DERR_T2	1	28	27	0.9	0.23	-0.67	0	0	0	0	0	0	0	0
5/21/2024 12:45	45501	DERR_T2	1	1	0	0.9	1	0.1	0.77	0.82	2	2	0	1800	1800	0
5/21/2024 12:45	10203	ALLE_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/21/2024 12:46	14802	TREI_T2	0	1	1	0	0.1	0.1	0.76	0.77	0	0	0	0	0	0
5/21/2024 12:46	55101	WERT_T1	0	0	0	0	0	0	-1.86	-1.79	4	4	0	3300	3300	0
5/21/2024 12:46	14801	TREI_T2	2	3	1	0.15	1	0.85	0	0	0	0	0	0	0	0
5/21/2024 12:49	40101	HUNT_T2	0	1	1	0	0	0	-0.4	-0.36	0	0	0	0	0	0
5/21/2024 12:50	57006	WHHI_T2	0	0	0	0	0	0	0.72	0.71	1	1	0	600	600	0
5/21/2024 12:50	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 12:51	58402	MORO_T1	0	0	0	0	0	0	-0.8	-0.79	3	3	0	2400	2400	0
5/21/2024 12:55	64101	REFR_T1	1	1	0	0.5	0.4	-0.1	0.18	0.16	0	0	0	0	0	0
5/21/2024 12:57	67702	WERN_T2	1	1	0	0.2	0.2	0	0.12	0.12	0	0	0	0	0	0
5/21/2024 12:57	67703	WERN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/21/2024 12:58	10103	ALLE_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/21/2024 12:58	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 12:58	10105	ALLE_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 12:58	10205	ALLE_T3	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 12:59	14801	TREI_T2	2	3	1	0.15	1	0.85	0.74	0.77	0	0	0	0	0	0
5/21/2024 12:59	14802	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 12:59	67401	WAKE_T2	2	3	1	0.5	0.73	0.23	-0.8	-0.73	0	0	0	0	0	0
5/21/2024 13:00	23202	HIRU_T2	2	3	1	0.35	0.43	0.08	0.13	0.11	0	0	0	0	0	0
5/21/2024 13:00	23203	HIRU_T2	2	3	1	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
5/21/2024 13:00	57002	WHHI_T2	1	0	-1	6.5	0	-6.5	0.64	-0.31	0	0	0	0	0	0
5/21/2024 13:00	57003	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/21/2024 13:00	23201	HIRU_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
5/21/2024 13:01	41801	OOCI_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
5/21/2024 13:01	11507	FREE_T2	0	1	1	0	0.1	0.1	1.35	1.21	0	0	0	0	0	0
5/21/2024 13:02	63602	LETO_T1	1	1	0	0.3	0.3	0	-0.18	-0.23	1	1	0	600	600	0
5/21/2024 13:04	63602	LETO_T1	1	1	0	0.3	0.3	0	-0.18	-0.23	1	1	0	600	600	0
5/21/2024 13:05	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 13:05	56501	ROCK_T2	4	7	3	0.85	0.83	-0.02	0	0	0	0	0	0	0	0
5/21/2024 13:06	56501	ROCK_T2	4	7	3	0.85	0.83	-0.02	83.96	83.96	0	0	0	0	0	0
5/21/2024 13:06	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 13:07	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 13:07	56501	ROCK_T2	4	7	3	0.85	0.83	-0.02	83.96	83.96	0	0	0	0	0	0
5/21/2024 13:08	47403	PENS_T1	2	6	4	1.35	0.55	-0.8	0	0	0	0	0	0	0	0
5/21/2024 13:08	56501	ROCK_T2	4	7	3	0.85	0.83	-0.02	83.96	83.96	0	0	0	0	0	0
5/21/2024 13:08	47402	PENS_T1	2	1	-1	0.1	0.7	0.6	0	0	0	0	0	0	0	0
5/21/2024 13:08	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 13:08	47401	PENS_T1	3	7	4	1.33	1	-0.33	0.26	0.26	0	0	0	0	0	0
5/21/2024 13:11	64101	REFR_T1	1	1	0	0.4	0.7	0.3	0.16	0.24	0	0	0	0	0	0
5/21/2024 13:13	64101	REFR_T1	1	1	0	0.4	0.7	0.3	0.16	0.24	0	0	0	0	0	0
5/21/2024 13:13	58003	WCAR_T1	1	3	2	0.7	0.5	-0.2	0.51	0.56	1	1	0	600	600	0
5/21/2024 13:13	58001	WCAR_T1	4	4	0	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
5/21/2024 13:15	58001	WCAR_T1	0	4	4	0	0.23	0.23	1.24	1.12	0	0	0	0	0	0
5/21/2024 13:15	14203	EALL_T1	3	3	0	0.43	0.5	0.07	0.54	0.47	1	1	0	1200	1200	0
5/21/2024 13:15	58003	WCAR_T1	2	3	1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
5/21/2024 13:15	14207	EALL_T1	1	0	-1	1.8	1	-0.8	0	0	0	0	0	0	0	0
5/21/2024 13:15	60901	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 13:15	67805	WLAN_T1	0	0	0	0	0	0	-0.49	-0.42	0	0	0	0	0	0
5/21/2024 13:15	60903	DONG_T2	0	0	0	0	0	0	1.56	1.55	1	1	0	600	600	0
5/21/2024 13:15	60902	DONG_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 13:16	49804	UNIV_T1	0	0	0	0	0	0	1.43	1.39	0	0	0	0	0	0
5/21/2024 13:16	20101	AVOC_T1	25	51	26	0.46	0.33	-0.13	0	0	0	0	0	0	0	0
5/21/2024 13:16	20106	AVOC_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/21/2024 13:16	51604	DUKE_T2	1	1	0	0.3	0.2	-0.1	-1.02	0	1	0	-1	900	0	-900
5/21/2024 13:16	49803	UNIV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/21/2024 13:16	20102	AVOC_T1	0	1	1	0	0	0	0	0.01	0	0	0	0	0	0
5/21/2024 13:27	62606	ENGL_T1	0	0	0	0	0	0	-0.68	-0.68	2	2	0	1500	1500	0
5/21/2024 13:30	62601	ENGL_T1	0	0	0	0	0	0	-0.95	-0.86	0	0	0	0	0	0
5/21/2024 13:30	61802	EELI_T2	3	4	1	0.17	0.18	0.01	0.1	0.1	0	0	0	0	0	0
5/21/2024 13:31	14601	SWHI_T1	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
5/21/2024 13:31	52403	GRPA_T2	4	12	8	0.48	0.61	0.13	0.33	0.35	0	0	0	0	0	0
5/21/2024 13:31	14603	SWHI_T1	3	3	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
5/21/2024 13:31	52402	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/21/2024 13:31	57004	WHHI_T2	0	0	0	0	0	0	0.04	-0.06	0	0	0	0	0	0
5/21/2024 13:31	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 13:32	52403	GRPA_T2	4	12	8	0.48	0.61	0.13	0.33	0.35	0	0	0	0	0	0
5/21/2024 13:32	52402	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/21/2024 13:34	52403	GRPA_T2	4	12	8	0.48	0.61	0.13	0.33	0.35	0	0	0	0	0	0
5/21/2024 13:34	52402	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/21/2024 13:43	61102	BERK_T5	0	0	0	0	0	0	0.6	0.55	1	1	0	300	300	0
5/21/2024 13:44	24603	VARD_T2	10	8	-2	0.86	1.18	0.32	0	0	0	0	0	0	0	0
5/21/2024 13:44	61102	BERK_T5	0	0	0	0	0	0	0.6	0.55	1	1	0	300	300	0
5/21/2024 13:44	24602	VARD_T2	80	77	-3	0.3	0.26	-0.04	-0.4	-0.17	0	0	0	0	0	0
5/21/2024 13:46	10707	CATA_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/21/2024 13:46	55103	WERT_T1	1	1	0	5.6	4.6	-1	0	0	0	0	0	0	0	0
5/21/2024 13:46	55105	WERT_T1	0	0	0	0	0	0	0.18	0.17	1	1	0	900	900	0
5/21/2024 13:46	67401	WAKE_T2	3	4	1	0.7	0.5	-0.2	-0.77	-0.71	0	0	0	0	0	0
5/21/2024 13:46	10705	CATA_T2	0	0	0	0	0	0	-0.34	-0.33	1	1	0	900	900	0
5/21/2024 13:49	17802	GILB_T1	0	2	2	0	1.15	1.15	0.33	0.26	0	0	0	0	0	0
5/21/2024 13:55	64101	REFR_T1	0	2	2	0	0.3	0.3	0.22	0.23	0	0	0	0	0	0
5/21/2024 13:58	60201	ATGL_T2	0	0	0	0	0	0	0.81	0.9	1	1	0	300	300	0
5/21/2024 13:59	60201	ATGL_T2	0	0	0	0	0	0	0.81	0.9	1	1	0	300	300	0
5/21/2024 14:00	66702	STRA_T1	0	1	1	0	0	0	0.3	0.45	2	2	0	1500	1500	0
5/21/2024 14:01	61102	BERK_T5	0	0	0	0	0	0	0.55	0.6	1	1	0	300	300	0
5/21/2024 14:02	61702	ELIZ_T2	0	0	0	0	0	0	-1.55	-1.46	2	2	0	1500	1500	0
5/21/2024 14:03	63804	HEMP_T1	1	1	0	7.3	7.2	-0.1	-0.12	0.09	0	0	0	0	0	0
5/21/2024 14:05	47403	PENS_T1	4	7	3	0.73	0.8	0.07	0	0	0	0	0	0	0	0
5/21/2024 14:05	47401	PENS_T1	4	8	4	1.03	0.79	-0.24	0.84	0.96	0	0	0	0	0	0
5/21/2024 14:05	47402	PENS_T1	1	2	1	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
5/21/2024 14:07	47401	PENS_T1	4	8	4	1.03	0.79	-0.24	0.28	0.32	0	0	0	0	0	0
5/21/2024 14:07	47402	PENS_T1	1	2	1	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
5/21/2024 14:07	47403	PENS_T1	4	7	3	0.73	0.8	0.07	0	0	0	0	0	0	0	0
5/21/2024 14:08	47401	PENS_T1	4	8	4	1.03	0.79	-0.24	0.28	0.32	0	0	0	0	0	0
5/21/2024 14:08	47402	PENS_T1	1	2	1	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
5/21/2024 14:08	47403	PENS_T1	4	7	3	0.73	0.8	0.07	0	0	0	0	0	0	0	0
5/21/2024 14:16	61102	BERK_T5	0	0	0	0	0	0	0.6	0.56	1	1	0	300	300	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/21/2024 14:20	47402	PENS_T1	1	2	1	1.4	0.9	-0.5	0	0	0	0	0	0	0	0
5/21/2024 14:20	47401	PENS_T1	8	6	-2	0.79	0.67	-0.12	0.64	0.91	0	0	0	0	0	0
5/21/2024 14:20	47403	PENS_T1	7	7	0	0.8	0.66	-0.14	0	0	0	0	0	0	0	0
5/21/2024 14:21	46502	LOHA_T1	0	0	0	0	0	0	-1	-0.97	1	1	0	1200	1200	0
5/21/2024 14:21	46501	LOHA_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 14:21	47401	PENS_T1	8	6	-2	0.79	0.67	-0.12	0.64	0.91	0	0	0	0	0	0
5/21/2024 14:21	47403	PENS_T1	7	7	0	0.8	0.66	-0.14	0	0	0	0	0	0	0	0
5/21/2024 14:21	47402	PENS_T1	1	2	1	1.4	0.9	-0.5	0	0	0	0	0	0	0	0
5/21/2024 14:24	41204	KENM_T2	0	0	0	0	0	0	0.89	0.88	0	0	0	0	0	0
5/21/2024 14:27	64101	REFR_T1	1	0	-1	0.3	0	-0.3	0.71	0.84	0	0	0	0	0	0
5/21/2024 14:28	64101	REFR_T1	1	0	-1	0.3	0	-0.3	0.71	0.84	0	0	0	0	0	0
5/21/2024 14:30	64101	REFR_T1	0	0	0	0	0	0	0.24	0.28	0	0	0	0	0	0
5/21/2024 14:33	40302	TAMA_T3	1	2	1	0.1	0.25	0.15	-1.06	-1.07	1	1	0	1200	1200	0
5/21/2024 14:33	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 14:36	58402	MORO_T1	0	0	0	0	0	0	-0.7	-0.69	3	3	0	2400	2400	0
5/21/2024 14:41	66505	SMAN_T2	1	2	1	1.3	1	-0.3	0	0	0	0	0	0	0	0
5/21/2024 14:41	66502	SMAN_T2	0	0	0	0	0	0	0.64	0.57	0	0	0	0	0	0
5/21/2024 14:43	16302	ALPA_T2	0	1	1	0	0.1	0.1	0.2	0.22	0	0	0	0	0	0
5/21/2024 14:46	55101	WERT_T1	0	0	0	0	0	0	-1.43	-1.64	4	4	0	3300	3300	0
5/21/2024 14:46	55103	WERT_T1	1	1	0	5	3.9	-1.1	0	0	0	0	0	0	0	0
5/21/2024 14:47	10805	CHHI_T2	23	25	2	0.52	1.28	0.76	-0.22	-0.28	1	1	0	600	600	0
5/21/2024 14:48	16302	ALPA_T2	0	1	1	0	0.1	0.1	0.1	0.11	0	0	0	0	0	0
5/21/2024 14:49	62102	ELAN_T1	0	0	0	0	0	0	1.31	1.39	0	0	0	0	0	0
5/21/2024 14:49	16302	ALPA_T2	0	1	1	0	0.1	0.1	0.1	0.11	0	0	0	0	0	0
5/21/2024 14:52	47403	PENS_T1	7	5	-2	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/21/2024 14:52	47402	PENS_T1	2	1	-1	0.9	1	0.1	0	0	0	0	0	0	0	0
5/21/2024 14:52	47401	PENS_T1	5	4	-1	0.78	0.9	0.12	0.47	0.37	0	0	0	0	0	0
5/21/2024 14:53	56504	ROCK_T2	1	4	3	0.4	0.95	0.55	0	0	0	0	0	0	0	0
5/21/2024 14:53	47402	PENS_T1	2	1	-1	0.9	1	0.1	0	0	0	0	0	0	0	0
5/21/2024 14:53	56503	ROCK_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/21/2024 14:53	47403	PENS_T1	7	5	-2	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/21/2024 14:53	53901	HALI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/21/2024 14:53	56501	ROCK_T2	4	12	8	0.58	0.51	-0.07	0	0	0	0	0	0	0	0
5/21/2024 14:53	53903	HALI_T2	3	6	3	0.53	0.45	-0.08	-0.02	0.04	0	0	0	0	0	0
5/21/2024 14:53	53902	HALI_T2	2	3	1	2.4	1.87	-0.53	0	0	0	0	0	0	0	0
5/21/2024 14:53	47401	PENS_T1	5	4	-1	0.78	0.9	0.12	0.47	0.37	0	0	0	0	0	0
5/21/2024 15:07	45502	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 15:07	45501	DERR_T2	1	3	2	0.5	0.1	-0.4	0.85	0.88	2	2	0	1800	1800	0
5/21/2024 15:08	45502	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 15:08	23002	SAJO_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
5/21/2024 15:08	23001	SAJO_T1	0	1	1	0	0.1	0.1	-0.56	-0.52	0	0	0	0	0	0
5/21/2024 15:08	66903	SHIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 15:08	66902	SHIL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/21/2024 15:08	66901	SHIL_T2	0	0	0	0	0	0	-0.55	-0.45	0	0	0	0	0	0
5/21/2024 15:08	13606	RICH_T2	1	0	0	7.2	7.9	0.7	0.71	1.52	0	0	0	0	0	0
5/21/2024 15:08	45501	DERR_T2	1	3	2	0.5	0.1	-0.4	0.85	0.88	2	2	0	1800	1800	0
5/21/2024 15:12	67901	WNHO_T2	0	0	0	0	0	0	0	0.24	1	1	0	900	900	0
5/21/2024 15:13	61102	BERK_T5	0	0	0	0	0	0	1.28	0.81	2	2	0	600	600	0
5/21/2024 15:14	61102	BERK_T5	0	0	0	0	0	0	1.28	0.81	2	2	0	600	600	0
5/21/2024 15:16	16301	ALPA_T1	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
5/21/2024 15:16	61102	BERK_T5	0	0	0	0	0	0	1.28	0.81	2	2	0	600	600	0
5/21/2024 15:16	46005	BERW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 15:16	46001	BERW_T1	0	0	0	0	0	0	0.59	0.63	0	0	0	0	0	0
5/21/2024 15:17	46005	BERW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 15:17	46001	BERW_T1	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
5/21/2024 15:18	46602	LACR_T1	5	4	-1	0.9	0.68	-0.22	0.05	0.09	0	0	0	0	0	0
5/21/2024 15:18	46001	BERW_T1	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
5/21/2024 15:18	46005	BERW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 15:19	46005	BERW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 15:19	46001	BERW_T1	0	0	0	0	0	0	0.59	0.63	0	0	0	0	0	0
5/21/2024 15:20	45501	DERR_T2	2	1	-1	0.1	0.2	0.1	0.88	0.87	2	2	0	1800	1800	0
5/21/2024 15:21	58101	NEKI_T1	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/21/2024 15:21	58102	NEKI_T1	3	3	0	1	0.6	-0.4	-1.28	-1.25	1	1	0	1200	1200	0
5/21/2024 15:22	10102	ALLE_T2	1	1	0	7.5	7.5	0	0	0	0	0	0	0	0	0
5/21/2024 15:22	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 15:23	58102	NEKI_T1	3	3	0	1	0.6	-0.4	-1.25	-1.21	1	1	0	1200	1200	0
5/21/2024 15:23	45501	DERR_T2	2	1	-1	0.1	0.2	0.1	2.65	2.61	6	6	0	5400	5400	0
5/21/2024 15:23	58101	NEKI_T1	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/21/2024 15:24	45501	DERR_T2	2	1	-1	0.1	0.2	0.1	1.74	1.66	4	4	0	3600	3600	0
5/21/2024 15:27	45501	DERR_T2	2	1	-1	0.1	0.2	0.1	0.87	0.83	2	2	0	1800	1800	0
5/21/2024 15:29	44301	BEAV_T2	1	8	7	0.1	0.3	0.2	0.57	0.62	1	1	0	600	600	0
5/21/2024 15:34	44502	HAMI_T2	1	1	0	1.8	2.1	0.3	-0.47	-0.47	0	0	0	0	0	0
5/21/2024 15:34	44505	HAMI_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
5/21/2024 15:36	44502	HAMI_T2	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
5/21/2024 15:36	44505	HAMI_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
5/21/2024 15:44	63802	HEMP_T1	0	0	0	0	0	0	0.63	0.58	0	0	0	0	0	0
5/21/2024 15:44	64101	REFR_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
5/21/2024 15:44	63804	HEMP_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
5/21/2024 15:47	11103	EGYP_T1	0	0	0	0	0	0	0.73	0.69	0	0	0	0	0	0
5/21/2024 15:47	11104	EGYP_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
5/21/2024 15:47	64101	REFR_T1	0	0	0	0	0	0	0.72	0.71	0	0	0	0	0	0
5/21/2024 15:47	11102	EGYP_T1	1	2	1	0.8	1.2	0.4	0	0	0	0	0	0	0	0
5/21/2024 15:48	64101	REFR_T1	0	0	0	0	0	0	1.8	1.77	0	0	0	0	0	0
5/21/2024 15:51	63304	GREE_T1	0	0	0	0	0	0	-0.74	-0.82	0	0	0	0	0	0
5/21/2024 15:51	63306	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 15:51	47402	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 15:51	47403	PENS_T1	0	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0
5/21/2024 15:51	47401	PENS_T1	2	2	0	0.7	0.5	-0.2	0.43	0.35	0	0	0	0	0	0
5/21/2024 15:53	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/21/2024 15:56	60101	COCA_T1	0	0	0	0	0	0	0.86	0.91	0	0	0	0	0	0
5/21/2024 15:57	67801	WLAN_T1	0	3	3	0	0	0	0.39	0.37	0	0	0	0	0	0
5/21/2024 15:57	64101	REFR_T1	0	0	0	0	0	0	0.71	0.73	0	0	0	0	0	0
5/21/2024 15:57	67804	WLAN_T1	3	3	0	0.53	0.87	0.34	0	0	0	0	0	0	0	0
5/21/2024 15:58	64101	REFR_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
5/21/2024 15:58	61102	BERK_T5	0	0	0	0	0	0	0.41	0.34	1	1	0	300	300	0
5/21/2024 16:01	58003	WCAR_T1	1	0	-1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
5/21/2024 16:01	58001	WCAR_T1	2	0	-2	0.2	0	-0.2	1.18	1.12	0	0	0	0	0	0
5/21/2024 16:02	28703	HAML_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
5/21/2024 16:02	28704	HAML_T2	1	1	0	0.5	0.9	0.4	0.03	-0.01	0	0	0	0	0	0
5/21/2024 16:02	28701	HAML_T2	2	3	1	1	0.7	-0.3	0	0	0	0	0	0	0	0
5/21/2024 16:05	46001	BERW_T1	0	430	430	0	0	0	0.25	0.01	0	0	0	0	0	0
5/21/2024 16:12	67801	WLAN_T1	2	1	-1	1.55	0	-1.55	0.37	0.28	0	0	0	0	0	0
5/21/2024 16:12	67804	WLAN_T1	3	3	0	1.03	0.37	-0.66	0	0	0	0	0	0	0	0
5/21/2024 16:13	64101	REFR_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
5/21/2024 16:14	64101	REFR_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
5/21/2024 16:20	55101	WERT_T1	0	0	0	0	0	0	-1.59	-2.14	4	4	0	3300	3300	0
5/21/2024 16:21	46505	LOHA_T1	0	0	0	0	0	0	-0.18	-0.21	1	1	0	600	600	0
5/21/2024 16:22	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
5/21/2024 16:24	42201	SHEN_T2	0	0	0	0	0	0	0.16	0.16	2	2	0	1200	1200	0
5/21/2024 16:25	42201	SHEN_T2	0	0	0	0	0	0	0.08	0.08	1	1	0	600	600	0
5/21/2024 16:26	52402	GRPA_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/21/2024 16:26	52403	GRPA_T2	0	4	4	0	0.15	0.15	-0.04	0	0	0	0	0	0	0
5/21/2024 16:30	64101	REFR_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
5/21/2024 16:31	43505	WWIL_T1	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
5/21/2024 16:31	43504	WWIL_T1	0	2	2	0	0	0	1.2	1.21	0	0	0	0	0	0
5/21/2024 16:31	43506	WWIL_T1	1	1	0	0.9	1.8	0.9	0	0	0	0	0	0	0	0
5/21/2024 16:34	20603	GRWO_T2	0	1	1	0	0.1	0.1	-0.39	-0.44	1	1	0	900	900	0
5/21/2024 16:35	21201	ECAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 16:35	20603	GRWO_T2	0	1	1	0	0.1	0.1	-0.39	-0.44	1	1	0	900	900	0
5/21/2024 16:35	21203	ECAR_T1	0	0	0	0	0	0	-0.28	-0.25	0	0	0	0	0	0
5/21/2024 16:39	21206	ECAR_T2	1	10	9	7.8	7.8	0	0.18	0.19	0	0	0	0	0	0
5/21/2024 16:39	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 16:45	64101	REFR_T1	0	0	0	0	0	0	0.37	0.4	0	0	0	0	0	0
5/21/2024 16:53	42903	MIDD_T2	17	4	-13	0.55	1.3	0.75	0	0	0	0	0	0	0	0
5/21/2024 16:53	42901	MIDD_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
5/21/2024 16:53	56501	ROCK_T2	2	2	0	0.1	0.35	0.25	83.96	83.96	0	0	0	0	0	0
5/21/2024 16:53	42902	MIDD_T2	19	20	1	0.42	0.34	-0.08	-0.19	-0.19	0	0	0	0	0	0
5/21/2024 16:53	46101	MACI_T2	0	101	101	0	0.17	0.17	-0.11	-0.45	1	1	0	1200	1200	0
5/21/2024 17:00	67804	WLAN_T1	3	5	2	0.3	0.45	0.15	0	0	0	0	0	0	0	0
5/21/2024 17:00	67801	WLAN_T1	0	1	1	0	0	0	0.39	0.32	0	0	0	0	0	0
5/21/2024 17:04	63401	HONY_T1	0	0	0	0	0	0	0.21	0.2	1	1	0	600	600	0
5/21/2024 17:05	63401	HONY_T1	0	0	0	0	0	0	0.21	0.2	1	1	0	600	600	0
5/21/2024 17:06	52101	MEIS_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/21/2024 17:06	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
5/21/2024 17:07	25402	LAHA_T2	0	2	2	0	0	0	-0.46	-0.55	0	0	0	0	0	0
5/21/2024 17:08	25402	LAHA_T2	0	2	2	0	0	0	-0.55	-0.52	0	0	0	0	0	0
5/21/2024 17:08	63401	HONY_T1	0	0	0	0	0	0	0.2	0.11	1	1	0	600	600	0
5/21/2024 17:09	46101	MACI_T2	7	110	103	0.13	0.17	0.04	-0.45	-0.5	1	1	0	1200	1200	0
5/21/2024 17:09	60501	NMAN_T2	3	3	0	2.93	2.77	-0.16	0	0	0	0	0	0	0	0
5/21/2024 17:09	60502	NMAN_T2	0	0	0	0	0	0	0.43	0.47	0	0	0	0	0	0
5/21/2024 17:13	60501	NMAN_T2	3	3	0	2.93	2.77	-0.16	0	0	0	0	0	0	0	0
5/21/2024 17:13	60502	NMAN_T2	0	0	0	0	0	0	0.43	0.47	0	0	0	0	0	0
5/21/2024 17:14	61103	BERK_T5	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
5/21/2024 17:15	16302	ALPA_T2	0	0	0	0	0	0	0.11	0.02	0	0	0	0	0	0
5/21/2024 17:16	61103	BERK_T5	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
5/21/2024 17:19	29402	BELT_T1	1	1	0	8.1	8.1	0	0	0	0	0	0	0	0	0
5/21/2024 17:19	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/21/2024 17:25	47101	MARL_T1	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
5/21/2024 17:37	23403	HONE_T1	0	0	0	0	0	0	-0.38	-0.45	0	0	0	0	0	0
5/21/2024 17:38	52404	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 17:38	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 17:38	52403	GRPA_T2	1	10	9	0.6	0.77	0.17	0.01	0	0	0	0	0	0	0
5/21/2024 17:47	58001	WCAR_T1	4	4	0	0.83	0.8	-0.03	0	0	0	0	0	0	0	0
5/21/2024 17:47	58003	WCAR_T1	2	1	-1	0.55	0.8	0.25	1.1	1.07	0	0	0	0	0	0
5/21/2024 17:49	63403	HONY_T2	1	0	-1	0.1	0	-0.1	-0.03	-0.01	0	0	0	0	0	0
5/21/2024 17:49	63402	HONY_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/21/2024 17:54	45501	DERR_T2	0	0	0	0	0	0	0.43	0.47	2	2	0	1800	1800	0
5/21/2024 17:54	45502	DERR_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/21/2024 17:56	52101	MEIS_T1	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/21/2024 17:56	52102	MEIS_T1	0	3	3	0	0.17	0.17	0	0	1	1	0	450	450	0
5/21/2024 18:04	22002	BOHE_T1	0	0	0	0	0	0	0.55	0.57	0	0	0	0	0	0
5/21/2024 18:04	22003	BOHE_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/21/2024 18:06	52101	MEIS_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/21/2024 18:06	52102	MEIS_T1	0	3	3	0	0.17	0.17	0	0	1	1	0	450	450	0
5/21/2024 18:07	63306	GREE_T1	0	0	0	0	0	0	-1.71	-1.69	1	1	0	900	900	0
5/21/2024 18:07	63305	GREE_T1	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/21/2024 18:11	60802	BUCK_T2	3	0	-3	0.13	0	-0.13	0.37	0.35	0	0	0	0	0	0
5/21/2024 18:20	10707	CATA_T2	0	0	0	0	0	0	0.67	0.62	0	0	0	0	0	0
5/21/2024 18:22	12505	MITR_T2	0	2	2	0	0.25	0.25	1.78	1.71	0	0	0	0	0	0
5/21/2024 18:22	12502	MITR_T2	1	1	0	7.1	7.2	0.1	0	0	0	0	0	0	0	0
5/21/2024 18:24	52002	LING_T2	0	1	1	0	0	0	0.71	0.7	0	0	0	0	0	0
5/21/2024 18:25	46101	MACI_T2	0	0	0	0	0	0	0.68	0.73	0	0	0	0	0	0
5/21/2024 18:27	12502	MITR_T2	1	1	0	7.1	7.2	0.1	0	0	0	0	0	0	0	0
5/21/2024 18:27	12505	MITR_T2	0	2	2	0	0.25	0.25	1.71	1.61	0	0	0	0	0	0
5/21/2024 18:31	22003	BOHE_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/21/2024 18:31	22002	BOHE_T1	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
5/21/2024 18:32	24702	FLND_T2	0	0	0	0	0	0	-0.07	0.19	1	1	0	1200	1200	0
5/21/2024 18:41	54201	PENN_T1	3	3	0	0.63	1.03	0.4	-0.42	-0.45	0	0	0	0	0	0
5/21/2024 18:41	54203	PENN_T1	5	11	6	0.94	0.63	-0.31	0	0	0	0	0	0	0	0
5/21/2024 18:42	65603	QVIL_T2	0	0	0	0	0	0	-0.49	-0.47	0	0	0	0	0	0
5/21/2024 18:45	67503	WEWI_T2	0	0	0	0	0	0	1.02	1	0	0	0	0	0	0
5/21/2024 18:47	29401	BELT_T1	0	8	8	0	0.13	0.13	0	0	1	1	0	900	900	0
5/21/2024 18:47	29402	BELT_T1	1	1	0	8.9	9	0.1	0	0	0	0	0	0	0	0
5/21/2024 18:50	29402	BELT_T1	1	1	0	8.9	9	0.1	0	0	0	0	0	0	0	0
5/21/2024 18:50	29401	BELT_T1	0	8	8	0	0.13	0.13	0	0	1	1	0	900	900	0
5/21/2024 18:51	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 18:51	10102	ALLE_T2	1	1	0	7.2	7	-0.2	0	0	0	0	0	0	0	0
5/21/2024 18:56	58003	WCAR_T1	1	2	1	1.2	0.9	-0.3	0.95	0.89	0	0	0	0	0	0
5/21/2024 18:56	58001	WCAR_T1	4	4	0	1.1	0.95	-0.15	0	0	0	0	0	0	0	0
5/21/2024 18:57	58001	WCAR_T1	4	4	0	1.1	0.95	-0.15	0	0	0	0	0	0	0	0
5/21/2024 18:57	58003	WCAR_T1	1	2	1	1.2	0.9	-0.3	1.9	1.78	0	0	0	0	0	0
5/21/2024 19:03	26603	BROO_T1	0	0	0	0	0	0	0.5	0.55	0	0	0	0	0	0
5/21/2024 19:04	26603	BROO_T1	0	0	0	0	0	0	0.5	0.55	0	0	0	0	0	0
5/21/2024 19:05	56801	BENV_T1	3	5	2	0.23	0.3	0.07	0	0	0	0	0	0	0	0
5/21/2024 19:05	56803	BENV_T1	2	4	2	2.55	0	-2.55	0.06	0.05	1	1	0	600	600	0
5/21/2024 19:06	64503	LAVI_T1	0	0	0	0	0	0	-1.33	-1.27	1	1	0	1200	1200	0
5/21/2024 19:07	12606	MACA_T1	0	9	9	0	0.19	0.19	0	0	0	0	0	0	0	0
5/21/2024 19:07	12601	MACA_T1	0	0	0	0	0	0	1.36	1.36	0	0	0	0	0	0
5/21/2024 19:07	64503	LAVI_T1	0	0	0	0	0	0	-1.33	-1.27	1	1	0	1200	1200	0
5/21/2024 19:08	16006	DORN_T2	1	6	5	0.6	0.93	0.33	0.24	0.2	1	1	0	1200	1200	0
5/21/2024 19:09	64503	LAVI_T1	0	0	0	0	0	0	-1.27	-1.36	1	1	0	1200	1200	0
5/21/2024 19:09	17802	GILB_T1	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
5/21/2024 19:10	64503	LAVI_T1	0	0	0	0	0	0	-1.27	-1.36	1	1	0	1200	1200	0
5/21/2024 19:11	16605	PONO_T1	1	7	6	0.1	0.13	0.03	-1.08	-0.99	2	2	0	2400	2400	0
5/21/2024 19:13	59101	WALK_T2	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
5/21/2024 19:23	65701	RVIL_T1	0	0	0	0	0	0	-0.93	-0.32	0	0	0	0	0	0
5/21/2024 19:26	50107	HARR_T3	0	0	0	0	0	0	0.76	0.78	0	0	0	0	0	0
5/21/2024 19:26	65205	PRIN_T1	1	1	0	1.3	1.7	0.4	0	0	0	0	0	0	0	0
5/21/2024 19:26	50105	HARR_T3	6	6	0	6.03	6.25	0.22	0	0	0	0	0	0	0	0
5/21/2024 19:26	50103	HARR_T3	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/21/2024 19:26	50201	HARR_T3	2	1	-1	9.8	9.8	0	0	0	0	0	0	0	0	0
5/21/2024 19:26	65702	RVIL_T2	0	0	0	0	0	0	-0.8	-0.79	1	1	0	600	600	0
5/21/2024 19:33	62102	ELAN_T1	0	0	0	0	0	0	0.69	0.6	0	0	0	0	0	0
5/21/2024 19:36	62102	ELAN_T1	0	0	0	0	0	0	0.69	0.6	0	0	0	0	0	0
5/21/2024 19:37	62102	ELAN_T1	0	0	0	0	0	0	0.69	0.6	0	0	0	0	0	0
5/21/2024 19:44	66503	SMAN_T2	0	0	0	0	0	0	0.97	0.94	0	0	0	0	0	0
5/21/2024 19:47	14403	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 19:47	14404	SSLA_T1	1	1	0	4.2	4.5	0.3	0.19	0.17	0	0	0	0	0	0
5/21/2024 19:49	20403	ASHF_T2	0	0	0	0	0	0	0.73	0.7	0	0	0	0	0	0
5/21/2024 19:49	20401	ASHF_T2	4	4	0	0.33	0.43	0.1	0	0	0	0	0	0	0	0
5/21/2024 19:56	67203	TEHI_T1	2	3	1	0.85	0	-0.85	2.57	2.59	2	2	0	1500	1500	0
5/21/2024 20:01	61102	BERK_T5	1	1	0	0.1	0.3	0.2	0.06	0.15	1	1	0	300	300	0
5/21/2024 20:08	44601	SALE_T2	0	0	0	0	0	0	0.5	0.32	0	0	0	0	0	0
5/21/2024 20:11	56501	ROCK_T2	3	21	18	0.53	0.23	-0.3	83.96	83.96	0	0	0	0	0	0
5/21/2024 20:16	47001	HUGH_T2	0	0	0	0	0	0	-0.32	-0.4	0	0	0	0	0	0
5/21/2024 20:17	47203	FAXO_T2	0	0	0	0	0	0	-1.7	-1.68	1	1	0	1200	1200	0
5/21/2024 20:18	47001	HUGH_T2	0	0	0	0	0	0	-0.32	-0.4	0	0	0	0	0	0
5/21/2024 20:20	47001	HUGH_T2	0	0	0	0	0	0	-0.32	-0.4	0	0	0	0	0	0
5/21/2024 20:23	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
5/21/2024 20:24	57304	MOAL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 20:24	57303	MOAL_T2	1	1	0	7.1	7.7	0.6	0	0	0	0	0	0	0	0
5/21/2024 20:25	57303	MOAL_T2	1	1	0	7.1	7.7	0.6	0	0	0	0	0	0	0	0
5/21/2024 20:25	57304	MOAL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 20:26	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
5/21/2024 20:28	67603	WARW_T1	0	0	0	0	0	0	0.28	0.23	0	0	0	0	0	0
5/21/2024 20:29	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
5/21/2024 20:29	56802	BENV_T2	0	1	1	0	0.2	0.2	-2.08	-2.13	0	0	0	0	0	0
5/21/2024 20:31	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
5/21/2024 20:31	56802	BENV_T2	0	8	8	0	0.14	0.14	-1.04	-1.07	0	0	0	0	0	0
5/21/2024 20:34	56802	BENV_T2	0	8	8	0	0.14	0.14	-2.08	-2.13	0	0	0	0	0	0
5/21/2024 20:36	13501	MCMI_T1	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
5/21/2024 20:37	13501	MCMI_T1	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
5/21/2024 20:37	43202	MVIL_T2	6	4	-2	1.65	0	-1.65	0	0	0	0	0	0	0	0
5/21/2024 20:37	43201	MVIL_T2	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
5/21/2024 21:05	58401	MORO_T1	0	0	0	0	0	0	-2.66	13.69	4	4	0	2400	2400	0
5/21/2024 21:11	59101	WALK_T2	0	0	0	0	0	0	7.13	-0.39	0	0	0	0	0	0
5/21/2024 21:11	59102	WALK_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/21/2024 21:13	59101	WALK_T2	0	0	0	0	0	0	7.13	-0.39	0	0	0	0	0	0
5/21/2024 21:13	59102	WALK_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/21/2024 21:20	46301	ROHR_T1	0	14	14	0	0.14	0.14	0	0	0	0	0	0	0	0
5/21/2024 21:20	46302	ROHR_T1	4	4	0	1.33	1.55	0.22	7.29	0.27	0	0	0	0	0	0
5/21/2024 21:21	46301	ROHR_T1	0	14	14	0	0.14	0.14	0	0	0	0	0	0	0	0
5/21/2024 21:21	46302	ROHR_T1	4	4	0	1.33	1.55	0.22	7.29	0.27	0	0	0	0	0	0
5/21/2024 21:24	46302	ROHR_T1	4	4	0	1.33	1.55	0.22	0	0	0	0	0	0	0	0
5/21/2024 21:24	46301	ROHR_T1	0	14	14	0	0.14	0.14	0.29	0.26	0	0	0	0	0	0
5/21/2024 21:25	46301	ROHR_T1	0	14	14	0	0.14	0.14	0.29	0.26	0	0	0	0	0	0
5/21/2024 21:25	46302	ROHR_T1	4	4	0	1.33	1.55	0.22	0	0	0	0	0	0	0	0
5/21/2024 21:27	46302	ROHR_T1	4	4	0	1.33	1.55	0.22	0	0	0	0	0	0	0	0
5/21/2024 21:27	46301	ROHR_T1	0	14	14	0	0.14	0.14	0.29	0.26	0	0	0	0	0	0
5/21/2024 21:32	44301	BEAV_T2	0	0	0	0	0	0	0.92	0.84	2	2	0	1200	1200	0
5/21/2024 21:42	56501	ROCK_T2	14	8	-6	0.31	0.34	0.03	83.96	83.96	0	0	0	0	0	0
5/21/2024 21:46	64702	LITI_T2	0	0	0	0	0	0	-0.18	-0.32	0	0	0	0	0	0
5/21/2024 21:48	64702	LITI_T2	0	0	0	0	0	0	-0.18	-0.32	0	0	0	0	0	0
5/21/2024 21:49	27101	GRLD_T2	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
5/21/2024 21:50	64702	LITI_T2	0	0	0	0	0	0	-0.18	-0.32	0	0	0	0	0	0
5/21/2024 21:52	42802	SELI_T1	0	0	0	0	0	0	-1.04	-1.07	0	0	0	0	0	0
5/21/2024 21:54	42802	SELI_T1	0	0	0	0	0	0	-1.07	-1.11	0	0	0	0	0	0
5/21/2024 21:56	50701	SMEC_T1	0	0	0	0	0	0	-0.37	-0.45	0	0	0	0	0	0
5/21/2024 22:00	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 22:00	50701	SMEC_T1	0	0	0	0	0	0	-0.37	-0.45	0	0	0	0	0	0
5/21/2024 22:00	45402	WBLO_T2	2	2	0	1.1	0.95	-0.15	-1.5	-1.52	1	1	0	900	900	0
5/21/2024 22:02	46802	HEPB_T1	2	6	4	0.2	0.22	0.02	0	-0.04	0	0	0	0	0	0
5/21/2024 22:04	12701	MACU_T1	0	0	0	0	0	0	-1.03	-1.06	1	1	0	1200	1200	0
5/21/2024 22:05	46801	HEPB_T2	36	25	-11	0.31	0.31	0	-0.03	-0.06	0	0	0	0	0	0
5/21/2024 22:05	46803	HEPB_T2	9	14	5	0.23	0.19	-0.04	0	0	0	0	0	0	0	0
5/21/2024 22:08	46803	HEPB_T2	9	14	5	0.23	0.19	-0.04	0.56	0.56	0	0	0	0	0	0
5/21/2024 22:08	12701	MACU_T1	0	0	0	0	0	0	-1.03	-1.06	1	1	0	1200	1200	0
5/21/2024 22:08	46801	HEPB_T2	36	25	-11	0.31	0.31	0	0	0	0	0	0	0	0	0
5/21/2024 22:12	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/21/2024 22:12	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 22:13	29402	BELT_T1	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
5/21/2024 22:13	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
5/21/2024 22:14	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 22:14	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
5/21/2024 22:14	53901	HALI_T2	1	1	0	0.3	0.2	-0.1	-1.28	-1.3	0	0	0	0	0	0
5/21/2024 22:14	53903	HALI_T2	2	2	0	1.65	0.9	-0.75	0	0	0	0	0	0	0	0
5/21/2024 22:15	21206	ECAR_T2	1	1	0	7.9	8.1	0.2	0.11	0.18	0	0	0	0	0	0
5/21/2024 22:15	28703	HAML_T2	3	3	0	0.27	0.33	0.06	0	0	0	0	0	0	0	0
5/21/2024 22:15	16102	BING_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/21/2024 22:15	16101	BING_T2	0	0	0	0	0	0	0.72	0.65	0	0	0	0	0	0
5/21/2024 22:15	28704	HAML_T2	1	1	0	0.7	1	0.3	-0.01	-0.01	0	0	0	0	0	0
5/21/2024 22:15	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 22:15	63602	LETO_T1	0	0	0	0	0	0	-0.67	-0.78	1	1	0	600	600	0
5/21/2024 22:16	53901	HALI_T2	0	1	1	0	0.6	0.6	-1.28	-1.3	0	0	0	0	0	0
5/21/2024 22:16	17002	RIRO_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
5/21/2024 22:16	14201	EALL_T1	0	0	0	0	0	0	1	0.93	0	0	0	0	0	0
5/21/2024 22:16	53902	HALI_T2	1	1	0	4.7	5.9	1.2	0	0	0	0	0	0	0	0
5/21/2024 22:16	53903	HALI_T2	2	2	0	0.9	1.45	0.55	-0.07	-0.08	0	0	0	0	0	0
5/21/2024 22:16	62607	ENGL_T1	0	0	0	0	0	0	-0.7	-0.71	1	1	0	300	300	0
5/21/2024 22:17	53903	HALI_T2	2	2	0	0.9	1.45	0.55	0	0	0	0	0	0	0	0
5/21/2024 22:17	53901	HALI_T2	0	1	1	0	0.6	0.6	-3.85	-3.91	0	0	0	0	0	0
5/21/2024 22:17	53902	HALI_T2	1	1	0	4.7	5.9	1.2	0	0	0	0	0	0	0	0
5/21/2024 22:18	15703	TANN_T2	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
5/21/2024 22:18	52101	MEIS_T1	2	2	0	0.85	1.25	0.4	0	0	0	0	0	0	0	0
5/21/2024 22:18	10805	CHHI_T2	1	11	10	8.1	1.61	-6.49	-0.95	-0.84	1	1	0	600	600	0
5/21/2024 22:18	15702	TANN_T2	1	0	-1	0.2	0	-0.2	-0.33	-0.29	0	0	0	0	0	0
5/21/2024 22:18	13501	MCMI_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
5/21/2024 22:18	13905	SEID_T1	0	0	0	0	0	0	-0.78	-0.79	1	1	0	1200	1200	0
5/21/2024 22:18	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
5/21/2024 22:19	17802	GILB_T1	2	1	-1	0.2	0.1	-0.1	0.12	0.1	0	0	0	0	0	0
5/21/2024 22:19	53902	HALI_T2	1	1	0	4.7	5.9	1.2	0	0	0	0	0	0	0	0
5/21/2024 22:19	65701	RVIL_T1	0	0	0	0	0	0	-1.53	-1.56	0	0	0	0	0	0
5/21/2024 22:19	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 22:19	25402	LAHA_T2	1	1	0	0.1	0.1	0	-0.87	-0.86	0	0	0	0	0	0
5/21/2024 22:19	54201	PENN_T1	3	4	1	1.1	0.95	-0.15	-0.68	-0.7	0	0	0	0	0	0
5/21/2024 22:19	54203	PENN_T1	18	18	0	0.49	0.54	0.05	0	0	0	0	0	0	0	0
5/21/2024 22:19	53901	HALI_T2	0	1	1	0	0.6	0.6	-1.28	-1.3	0	0	0	0	0	0
5/21/2024 22:19	53903	HALI_T2	2	2	0	0.9	1.45	0.55	0	0	0	0	0	0	0	0
5/21/2024 22:19	23202	HIRU_T2	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
5/21/2024 22:19	25404	LAHA_T2	108	92	-16	0.11	0.11	0	0	0	0	0	0	0	0	0
5/21/2024 22:20	55002	NEWP_T1	2	0	-2	0.25	0	-0.25	-0.18	-0.2	0	0	0	0	0	0
5/21/2024 22:20	45901	AUBU_T1	0	0	0	0	0	0	1.9	1.97	0	0	0	0	0	0
5/21/2024 22:20	10801	CHHI_T1	0	0	0	0	0	0	-1.63	-1.7	3	3	0	2100	2100	0
5/21/2024 22:20	29402	BELT_T1	1	1	0	6.1	6.6	0.5	0	0	0	0	0	0	0	0
5/21/2024 22:20	45902	AUBU_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 22:20	16102	BING_T2	0	3	3	0	0.13	0.13	-1.13	-1.12	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/21/2024 22:21	20603	GRWO_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
5/21/2024 22:21	22002	BOHE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 22:21	16006	DORN_T2	0	0	0	0	0	0	1.11	1.09	0	0	0	0	0	0
5/21/2024 22:21	45902	AUBU_T1	1	0	-1	0.2	0	-0.2	-1.12	-0.89	1	1	0	600	600	0
5/21/2024 22:21	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
5/21/2024 22:21	20601	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 22:21	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 22:21	10805	CHHI_T2	1	11	10	8.1	1.61	-6.49	-0.95	-0.84	1	1	0	600	600	0
5/21/2024 22:21	20401	ASHF_T2	1	4	3	0.2	0.1	-0.1	-0.14	-0.12	0	0	0	0	0	0
5/21/2024 22:21	10102	ALLE_T2	1	1	0	7.3	6.8	-0.5	0	0	0	0	0	0	0	0
5/21/2024 22:21	67502	WEWI_T2	0	6	6	0	0.12	0.12	-1.16	-1.18	1	1	0	900	900	0
5/21/2024 22:21	13503	MCMI_T2	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
5/21/2024 22:21	22003	BOHE_T1	2	18	16	0.7	0.18	-0.52	0	0	0	0	0	0	0	0
5/21/2024 22:22	42902	MIDD_T2	30	48	18	0.38	0.4	0.02	-0.25	-0.31	0	0	0	0	0	0
5/21/2024 22:22	42903	MIDD_T2	2	2	0	1.65	1.9	0.25	0	0	0	0	0	0	0	0
5/21/2024 22:22	42901	MIDD_T2	35	71	36	0.15	0.18	0.03	0	0	0	0	0	0	0	0
5/21/2024 22:22	45501	DERR_T2	1	3	2	0.2	0.53	0.33	-0.23	-0.16	2	2	0	1800	1800	0
5/21/2024 22:22	29402	BELT_T1	1	1	0	6.1	6.6	0.5	0	0	0	0	0	0	0	0
5/21/2024 22:22	21206	ECAR_T2	1	1	0	7.9	8.1	0.2	0.11	0.18	0	0	0	0	0	0
5/21/2024 22:22	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/21/2024 22:22	45902	AUBU_T1	1	0	-1	0.2	0	-0.2	-1.12	-0.89	1	1	0	600	600	0
5/21/2024 22:22	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 22:23	11507	FREE_T2	0	0	0	0	0	0	0.66	1.29	0	0	0	0	0	0
5/21/2024 22:23	25402	LAHA_T2	1	1	0	0.1	0.1	0	-0.86	-0.87	0	0	0	0	0	0
5/21/2024 22:23	25404	LAHA_T2	108	92	-16	0.11	0.11	0	0	0	0	0	0	0	0	0
5/21/2024 22:23	50107	HARR_T3	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
5/21/2024 22:23	50105	HARR_T3	6	6	0	6.45	6.02	-0.43	0	0	0	0	0	0	0	0
5/21/2024 22:23	67703	WERN_T2	0	0	0	0	0	0	-0.63	-0.64	1	1	0	900	900	0
5/21/2024 22:23	66504	SMAN_T2	0	0	0	0	0	0	-0.23	-2.79	0	0	0	0	0	0
5/21/2024 22:23	66505	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/21/2024 22:23	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/21/2024 22:23	29402	BELT_T1	1	1	0	6.1	6.6	0.5	0	0	0	0	0	0	0	0
5/21/2024 22:23	64503	LAVI_T1	0	0	0	0	0	0	-0.27	-0.38	1	1	0	1200	1200	0
5/21/2024 22:23	65001	NEFF_T2	0	0	0	0	0	0	-0.59	-0.55	1	1	0	1200	1200	0
5/21/2024 22:23	46001	BERW_T1	0	0	0	0	0	0	0.84	0.82	0	0	0	0	0	0
5/21/2024 22:23	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/21/2024 22:23	23001	SAJO_T1	0	0	0	0	0	0	0.07	0.16	0	0	0	0	0	0
5/21/2024 22:23	48302	ORWI_T2	2	2	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/21/2024 22:23	50201	HARR_T3	1	1	0	9	8.9	-0.1	0	0	0	0	0	0	0	0
5/21/2024 22:24	15702	TANN_T2	1	0	-1	0.2	0	-0.2	-0.29	-0.31	0	0	0	0	0	0
5/21/2024 22:24	59302	MCAL_T1	0	0	0	0	0	0	-0.87	-0.85	1	1	0	600	600	0
5/21/2024 22:24	59301	MCAL_T1	2	2	0	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
5/21/2024 22:24	46101	MACI_T2	3	0	-3	0.1	0	-0.1	0.69	0.73	0	0	0	0	0	0
5/21/2024 22:24	16302	ALPA_T2	0	0	0	0	0	0	1	0.9	0	0	0	0	0	0
5/21/2024 22:24	24603	VARD_T2	14	15	1	0.29	0.36	0.07	0	0	0	0	0	0	0	0
5/21/2024 22:24	20401	ASHF_T2	1	4	3	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/21/2024 22:24	66901	SHIL_T2	0	0	0	0	0	0	-1.02	-1.08	0	0	0	0	0	0
5/21/2024 22:24	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.29	0	0	0	0	0	0
5/21/2024 22:24	24602	VARD_T2	482	525	43	0.89	0.96	0.07	-0.96	-0.98	0	0	0	0	0	0
5/21/2024 22:24	60101	COCA_T1	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
5/21/2024 22:24	29402	BELT_T1	1	1	0	6.1	6.6	0.5	0	0	0	0	0	0	0	0
5/21/2024 22:24	61102	BERK_T5	0	0	0	0	0	0	0.42	0.37	1	1	0	300	300	0
5/21/2024 22:24	56501	ROCK_T2	2	2	0	0.3	0.75	0.45	83.96	83.96	0	0	0	0	0	0
5/21/2024 22:24	60502	NMAN_T2	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
5/21/2024 22:24	60501	NMAN_T2	3	3	0	4.43	4.77	0.34	0	0	0	0	0	0	0	0
5/21/2024 22:24	15703	TANN_T2	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
5/21/2024 22:25	10805	CHHI_T2	1	11	10	8.1	1.61	-6.49	-0.84	-0.6	1	1	0	600	600	0
5/21/2024 22:25	45501	DERR_T2	1	3	2	0.2	0.53	0.33	-0.16	-0.23	2	2	0	1800	1800	0
5/21/2024 22:25	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/21/2024 22:25	45902	AUBU_T1	1	0	-1	0.2	0	-0.2	-0.89	-0.83	1	1	0	600	600	0
5/21/2024 22:25	47401	PENS_T1	0	0	0	0	0	0	1.13	1.07	0	0	0	0	0	0
5/21/2024 22:25	55002	NEWP_T1	2	0	-2	0.25	0	-0.25	-0.4	-0.42	0	0	0	0	0	0
5/21/2024 22:25	61103	BERK_T5	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
5/21/2024 22:25	42201	SHEN_T2	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
5/21/2024 22:25	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 22:25	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/21/2024 22:25	60101	COCA_T1	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
5/21/2024 22:25	57403	SPAN_T1	0	0	0	0	0	0	0.18	0.13	0	0	0	0	0	0
5/21/2024 22:25	64902	MILL_T2	0	0	0	0	0	0	-0.33	-0.36	1	1	0	900	900	0
5/21/2024 22:25	63602	LETO_T1	0	0	0	0	0	0	-0.78	-0.1	1	0	-1	600	0	-600
5/21/2024 22:25	67605	WARW_T1	0	0	0	0	0	0	-1.15	-1.21	0	0	0	0	0	0
5/21/2024 22:25	64503	LAVI_T1	0	0	0	0	0	0	-0.27	-0.38	1	1	0	1200	1200	0
5/21/2024 22:25	23203	HIRU_T2	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
5/21/2024 22:25	16302	ALPA_T2	0	0	0	0	0	0	2	1.79	0	0	0	0	0	0
5/21/2024 22:25	62102	ELAN_T1	0	0	0	0	0	0	1.06	1	0	0	0	0	0	0
5/21/2024 22:25	61102	BERK_T5	0	0	0	0	0	0	0.85	0.74	2	2	0	600	600	0
5/21/2024 22:26	55105	WERT_T1	0	0	0	0	0	0	-0.19	-0.17	1	1	0	900	900	0
5/21/2024 22:26	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.46	0	0	0	0	0	0
5/21/2024 22:26	24102	EHAZ_T1	1	4	3	3	2.3	-0.7	0	0	0	0	0	0	0	0
5/21/2024 22:26	58006	WCAR_T2	0	0	0	0	0	0	0.5	-0.8	0	0	0	0	0	0
5/21/2024 22:26	10801	CHHI_T1	0	0	0	0	0	0	-1.7	-1.69	3	3	0	2100	2100	0
5/21/2024 22:26	61102	BERK_T5	0	0	0	0	0	0	0.42	0.37	1	1	0	300	300	0
5/21/2024 22:26	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 22:26	44505	HAMI_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
5/21/2024 22:26	10707	CATA_T2	0	0	0	0	0	0	0.51	0.56	0	0	0	0	0	0
5/21/2024 22:26	46001	BERW_T1	0	0	0	0	0	0	0.82	0.77	0	0	0	0	0	0
5/21/2024 22:26	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	-0.75	-0.77	0	0	0	0	0	0
5/21/2024 22:26	58001	WCAR_T1	4	4	0	0.38	0.48	0.1	0	0	0	0	0	0	0	0
5/21/2024 22:26	40302	TAMA_T3	1	0	-1	0.2	0	-0.2	0.22	0.21	0	0	0	0	0	0
5/21/2024 22:26	54201	PENN_T1	3	4	1	1.1	0.95	-0.15	-0.7	-0.67	0	0	0	0	0	0
5/21/2024 22:26	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/21/2024 22:26	45902	AUBU_T1	1	0	-1	0.2	0	-0.2	-1.78	-1.66	2	2	0	1200	1200	0
5/21/2024 22:26	24105	EHAZ_T1	4	4	0	5.23	6.03	0.8	-0.5	-0.46	1	1	0	1200	1200	0
5/21/2024 22:26	46602	LACR_T1	21	15	-6	0.15	0.13	-0.02	-0.25	-0.26	0	0	0	0	0	0
5/21/2024 22:26	43301	WATS_T2	2	1	-1	0.5	0.7	0.2	0	0	1	1	0	900	900	0
5/21/2024 22:26	23403	HONE_T1	0	21	21	0	0.1	0.1	-0.62	-0.63	0	0	0	0	0	0
5/21/2024 22:26	54203	PENN_T1	18	18	0	0.49	0.54	0.05	0	0	0	0	0	0	0	0
5/21/2024 22:26	13302	ORVI_T2	0	0	0	0	0	0	-1.02	-1	0	0	0	0	0	0
5/21/2024 22:26	47401	PENS_T1	0	0	0	0	0	0	1.13	1.07	0	0	0	0	0	0
5/21/2024 22:26	14203	EALL_T1	0	0	0	0	0	0	-0.05	-0.14	1	1	0	1200	1200	0
5/21/2024 22:26	58003	WCAR_T1	1	1	0	1.1	1.1	0	1.55	1.45	0	0	0	0	0	0
5/21/2024 22:27	65603	QVIL_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
5/21/2024 22:27	12502	MITR_T2	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
5/21/2024 22:27	63403	HONY_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
5/21/2024 22:27	51101	CARL_T1	0	0	0	0	0	0	-1.29	-1.26	1	1	0	600	600	0
5/21/2024 22:27	45501	DERR_T2	1	3	2	0.2	0.53	0.33	-0.32	-0.46	4	4	0	3600	3600	0
5/21/2024 22:27	67703	WERN_T2	0	0	0	0	0	0	-0.63	-0.64	1	1	0	900	900	0
5/21/2024 22:27	13303	ORVI_T1	0	0	0	0	0	0	-1.65	-1.62	0	0	0	0	0	0
5/21/2024 22:27	10805	CHHI_T2	1	11	10	8.1	1.61	-6.49	-1.68	-1.2	2	2	0	1200	1200	0
5/21/2024 22:27	66505	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/21/2024 22:27	17802	GILB_T1	2	1	-1	0.2	0.1	-0.1	0.1	0.07	0	0	0	0	0	0
5/21/2024 22:27	58001	WCAR_T1	4	4	0	0.38	0.48	0.1	0	0	0	0	0	0	0	0
5/21/2024 22:27	16402	MOPO_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
5/21/2024 22:27	63402	HONY_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
5/21/2024 22:27	58003	WCAR_T1	1	1	0	1.1	1.1	0	0.77	0.73	0	0	0	0	0	0
5/21/2024 22:27	57006	WHHI_T2	0	0	0	0	0	0	1	0.99	0	0	0	0	0	0
5/21/2024 22:27	12505	MITR_T2	0	0	0	0	0	0	1.21	1.15	0	0	0	0	0	0
5/21/2024 22:27	65601	QVIL_T2	21	37	16	0.13	0.15	0.02	0	0	0	0	0	0	0	0
5/21/2024 22:27	66504	SMAN_T2	0	0	0	0	0	0	-0.11	-1.39	0	1	1	0	1200	1200
5/21/2024 22:27	52402	GRPA_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/21/2024 22:27	52403	GRPA_T2	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
5/21/2024 22:27	56802	BENV_T2	1	1	0	0.8	0.7	-0.1	-1.26	-1.29	0	0	0	0	0	0
5/21/2024 22:27	65604	QVIL_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/21/2024 22:27	58402	MORO_T1	0	0	0	0	0	0	-0.22	-0.55	2	2	0	1500	1800	300
5/21/2024 22:27	14801	TREI_T2	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
5/21/2024 22:27	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 22:27	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/21/2024 22:28	29402	BELT_T1	1	1	0	6.1	6.6	0.5	0	0	0	0	0	0	0	0
5/21/2024 22:28	56802	BENV_T2	1	1	0	0.8	0.7	-0.1	-1.26	-1.29	0	0	0	0	0	0
5/21/2024 22:28	60501	NMAN_T2	3	3	0	4.43	4.77	0.34	0	0	0	0	0	0	0	0
5/21/2024 22:28	61102	BERK_T5	0	0	0	0	0	0	0.85	0.74	2	2	0	600	600	0
5/21/2024 22:28	49804	UNIV_T1	0	2	2	0	0.25	0.25	0.67	0.64	0	0	0	0	0	0
5/21/2024 22:28	54203	PENN_T1	18	18	0	0.49	0.54	0.05	0.41	0.35	0	0	0	0	0	0
5/21/2024 22:28	25503	MADI_T1	125	136	11	0.43	0.51	0.08	-0.81	-0.85	0	0	0	0	0	0
5/21/2024 22:28	45902	AUBU_T1	1	0	-1	0.2	0	-0.2	-0.89	-0.83	1	1	0	600	600	0
5/21/2024 22:28	16302	ALPA_T2	0	0	0	0	0	0	1	0.9	0	0	0	0	0	0
5/21/2024 22:28	12502	MITR_T2	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
5/21/2024 22:28	47401	PENS_T1	0	0	0	0	0	0	1.13	1.07	0	0	0	0	0	0
5/21/2024 22:28	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/21/2024 22:28	54201	PENN_T1	3	4	1	1.1	0.95	-0.15	0	0	0	0	0	0	0	0
5/21/2024 22:28	57004	WHHI_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
5/21/2024 22:28	57006	WHHI_T2	0	0	0	0	0	0	1	0.99	0	0	0	0	0	0
5/21/2024 22:28	60802	BUCK_T2	43	47	4	0.21	0.17	-0.04	0.25	0.23	0	0	0	0	0	0
5/21/2024 22:28	63401	HONY_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
5/21/2024 22:28	63404	HONY_T1	20	52	32	0.14	0.21	0.07	0	0	0	0	0	0	0	0
5/21/2024 22:28	60502	NMAN_T2	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
5/21/2024 22:28	12505	MITR_T2	0	0	0	0	0	0	1.21	1.15	0	0	0	0	0	0
5/21/2024 22:28	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/21/2024 22:29	42902	MIDD_T2	30	48	18	0.38	0.4	0.02	-0.31	-0.37	0	0	0	0	0	0
5/21/2024 22:29	67401	WAKE_T2	120	147	27	0.33	0.36	0.03	0	0	0	0	0	0	0	0
5/21/2024 22:29	61102	BERK_T5	0	0	0	0	0	0	0.42	0.37	1	1	0	300	300	0
5/21/2024 22:29	44301	BEAV_T2	0	0	0	0	0	0	0.22	0.28	1	1	0	600	600	0
5/21/2024 22:29	42903	MIDD_T2	2	2	0	1.65	1.9	0.25	0	0	0	0	0	0	0	0
5/21/2024 22:29	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
5/21/2024 22:29	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
5/21/2024 22:29	55002	NEWP_T1	2	0	-2	0.25	0	-0.25	-0.2	-0.21	0	0	0	0	0	0
5/21/2024 22:29	44505	HAMI_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
5/21/2024 22:29	24702	FLND_T2	0	0	0	0	0	0	0.9	1.18	0	0	0	0	0	0
5/21/2024 22:29	57106	SPHI_T2	3	3	0	1.03	1.13	0.1	0	0	0	0	0	0	0	0
5/21/2024 22:29	53601	DALM_T2	1	1	0	0.5	0.7	0.2	-0.98	-0.13	1	0	-1	900	0	-900
5/21/2024 22:29	14404	SSLA_T1	1	1	0	4.5	4.9	0.4	0.1	0.1	0	0	0	0	0	0
5/21/2024 22:29	21203	ECAR_T1	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
5/21/2024 22:29	23203	HIRU_T2	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/21/2024 22:29	26603	BROO_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
5/21/2024 22:29	67402	WAKE_T2	0	1	1	0	0.1	0.1	0.4	0.39	0	0	0	0	0	0
5/21/2024 22:29	42901	MIDD_T2	35	71	36	0.15	0.18	0.03	0	0	0	0	0	0	0	0
5/21/2024 22:29	67502	WEWI_T2	0	6	6	0	0.12	0.12	-1.18	-1.23	1	1	0	900	900	0
5/21/2024 22:29	17802	GILB_T1	2	1	-1	0.2	0.1	-0.1	0.1	0.07	0	0	0	0	0	0
5/21/2024 22:29	52101	MEIS_T1	2	2	0	0.85	1.25	0.4	0	0	0	0	0	0	0	0
5/21/2024 22:29	57104	SPHI_T2	1	1	0	1.1	9.2	8.1	-0.64	-1.65	0	1	1	0	900	900
5/21/2024 22:29	46001	BERW_T1	0	0	0	0	0	0	1.64	1.54	0	0	0	0	0	0
5/21/2024 22:29	57101	SPHI_T2	6	6	0	0.35	0.67	0.32	0	0	0	0	0	0	0	0
5/21/2024 22:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 22:29	47401	PENS_T1	0	0	0	0	0	0	1.13	1.07	0	0	0	0	0	0
5/21/2024 22:30	23001	SAJO_T1	0	0	0	0	0	0	0.07	0.16	0	0	0	0	0	0
5/21/2024 22:30	61301	EARL_T1	0	0	0	0	0	0	-1.41	-1.44	2	2	0	1800	1800	0
5/21/2024 22:30	56802	BENV_T2	1	1	0	0.7	0.2	-0.5	-1.26	-1.29	0	0	0	0	0	0
5/21/2024 22:30	56801	BENV_T1	13	18	5	0.72	1.24	0.52	0	0	0	0	0	0	0	0
5/21/2024 22:30	29402	BELT_T1	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
5/21/2024 22:30	63306	GREE_T1	0	0	0	0	0	0	-1.38	-1.43	1	1	0	900	900	0
5/21/2024 22:30	67805	WLAN_T1	100	15	-85	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
5/21/2024 22:30	14802	TREI_T2	0	0	0	0	0	0	0.58	0.5	0	0	0	0	0	0
5/21/2024 22:30	67603	WARW_T1	0	0	0	0	0	0	0.08	0.01	0	0	0	0	0	0
5/21/2024 22:30	66505	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/21/2024 22:30	64901	MILL_T1	9	6	-3	0.21	0.13	-0.08	0	0	0	0	0	0	0	0
5/21/2024 22:30	57205	ROSS_T1	0	0	0	0	0	0	-0.66	-0.69	1	1	0	900	900	0
5/21/2024 22:30	60101	COCA_T1	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
5/21/2024 22:30	56501	ROCK_T2	2	5	3	0.4	0.42	0.02	83.96	83.96	0	0	0	0	0	0
5/21/2024 22:30	15702	TANN_T2	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
5/21/2024 22:30	14404	SSLA_T1	1	1	0	4.6	5	0.4	0.05	0.05	0	0	0	0	0	0
5/21/2024 22:30	64904	MILL_T1	3	1	-2	0.13	0.1	-0.03	-0.02	-0.1	0	0	0	0	0	0
5/21/2024 22:30	45501	DERR_T2	3	2	-1	0.53	1.1	0.57	-0.16	-0.23	2	2	0	1800	1800	0
5/21/2024 22:30	60102	COCA_T1	0	0	0	0	0	0	-0.64	-0.32	2	2	0	1200	1200	0
5/21/2024 22:30	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/21/2024 22:30	43301	WATS_T2	1	1	0	0.7	0.4	-0.3	0	0	1	1	0	900	900	0
5/21/2024 22:30	56803	BENV_T1	1	0	-1	0.3	0	-0.3	-0.07	-0.06	0	0	0	0	0	0
5/21/2024 22:30	67803	WLAN_T1	0	0	0	0	0	0	-0.58	-0.64	0	0	0	0	0	0
5/21/2024 22:30	15703	TANN_T2	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
5/21/2024 22:30	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 22:31	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 22:31	67803	WLAN_T1	0	0	0	0	0	0	-0.58	-0.64	0	0	0	0	0	0
5/21/2024 22:31	17804	GILB_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
5/21/2024 22:31	10805	OHHI_T2	10	11	1	1.61	1.26	-0.35	-0.84	-0.6	1	1	0	600	600	0
5/21/2024 22:31	64101	REFR_T1	0	0	0	0	0	0	0.31	0.22	0	0	0	0	0	0
5/21/2024 22:31	14601	SWHI_T1	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
5/21/2024 22:31	42201	SHEN_T2	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
5/21/2024 22:31	42901	MIDD_T2	52	111	59	0.17	0.18	0.01	0	0	0	0	0	0	0	0
5/21/2024 22:31	14404	SSLA_T1	1	1	0	4.6	5	0.4	0	0	0	0	0	0	0	0
5/21/2024 22:31	24105	EHAZ_T1	4	4	0	6.03	6.2	0.17	0	0	0	0	0	0	0	0
5/21/2024 22:31	42903	MIDD_T2	2	3	1	1.7	1.33	-0.37	0	0	0	0	0	0	0	0
5/21/2024 22:31	67402	WAKE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/21/2024 22:31	56501	ROCK_T2	2	5	3	0.4	0.42	0.02	83.96	83.96	0	0	0	0	0	0
5/21/2024 22:31	47401	PENS_T1	0	0	0	0	0	0	1.13	1.07	0	0	0	0	0	0
5/21/2024 22:31	12601	MACA_T1	0	0	0	0	0	0	1	1.02	0	0	0	0	0	0
5/21/2024 22:31	12002	HATF_T1	1	1	0	0.5	0.3	-0.2	0.25	0.37	0	0	0	0	0	0
5/21/2024 22:31	12606	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 22:31	54206	PENN_T2	0	0	0	0	0	0	-0.06	-0.22	0	0	0	0	0	0
5/21/2024 22:31	67805	WLAN_T1	100	15	-85	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
5/21/2024 22:31	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.29	0	0	0	0	0	0
5/21/2024 22:31	24104	EHAZ_T1	0	0	0	0	0	0	-0.87	-0.88	1	1	0	1200	1200	0
5/21/2024 22:31	42902	MIDD_T2	35	50	15	0.41	0.42	0.01	-0.31	-0.37	0	0	0	0	0	0
5/21/2024 22:31	63404	HONY_T1	43	52	9	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
5/21/2024 22:31	14403	SSLA_T1	0	0	0	0	0	0	0.7	0.69	0	0	0	0	0	0
5/21/2024 22:31	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 22:31	61102	BERK_T5	0	0	0	0	0	0	0.42	0.37	1	1	0	300	300	0
5/21/2024 22:31	58102	NEKI_T1	1	1	0	1.2	1.1	-0.1	-0.6	-0.71	0	0	0	0	0	0
5/21/2024 22:31	20401	ASHF_T2	3	2	-1	0.67	0.2	-0.47	0	0	0	0	0	0	0	0
5/21/2024 22:31	24102	EHAZ_T1	4	1	-3	1.58	2.2	0.62	0	0	0	0	0	0	0	0
5/21/2024 22:31	63401	HONY_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
5/21/2024 22:31	20601	GRWO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 22:31	52403	GRPA_T2	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
5/21/2024 22:31	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/21/2024 22:31	20603	GRWO_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
5/21/2024 22:31	67401	WAKE_T2	144	123	-21	0.36	0.32	-0.04	-0.88	-0.71	0	0	0	0	0	0
5/21/2024 22:31	52402	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 22:31	46001	BERW_T1	0	0	0	0	0	0	0.82	0.77	0	0	0	0	0	0
5/21/2024 22:31	52402	GRPA_T2	2	0	-2	0.2	0	-0.2	-0.72	-0.77	0	0	0	0	0	0
5/21/2024 22:32	67401	WAKE_T2	144	123	-21	0.36	0.32	-0.04	0	0	0	0	0	0	0	0
5/21/2024 22:32	46101	MACI_T2	0	0	0	0	0	0	0.69	0.73	0	0	0	0	0	0
5/21/2024 22:32	54202	PENN_T2	0	0	0	0	0	0	0.86	0.78	0	0	0	0	0	0
5/21/2024 22:32	26603	BROO_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
5/21/2024 22:32	58003	WCAR_T1	1	1	0	1.1	1	-0.1	0.77	0.73	0	0	0	0	0	0
5/21/2024 22:32	25404	LAHA_T2	92	38	-54	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
5/21/2024 22:32	58102	NEKI_T1	1	1	0	1.2	1.1	-0.1	-0.6	-0.71	0	0	0	0	0	0
5/21/2024 22:32	47401	PENS_T1	0	0	0	0	0	0	1.13	1.07	0	0	0	0	0	0
5/21/2024 22:32	44301	BEAV_T2	0	0	0	0	0	0	0.44	0.56	2	2	0	1200	1200	0
5/21/2024 22:32	64101	REFR_T1	0	0	0	0	0	0	0.61	0.44	0	0	0	0	0	0
5/21/2024 22:32	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 22:32	60201	ATGL_T2	0	0	0	0	0	0	0.56	0.48	0	0	0	0	0	0
5/21/2024 22:32	53902	HALI_T2	1	1	0	5.2	5.9	0.7	0	0	0	0	0	0	0	0
5/21/2024 22:32	42201	SHEN_T2	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
5/21/2024 22:32	67402	WAKE_T2	1	0	-1	0.1	0	-0.1	0.4	0.39	0	0	0	0	0	0
5/21/2024 22:32	25402	LAHA_T2	1	1	0	0.1	0.1	0	-0.86	-0.87	0	0	0	0	0	0
5/21/2024 22:32	64503	LAVI_T1	0	0	0	0	0	0	-0.27	-0.38	1	1	0	1200	1200	0
5/21/2024 22:32	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/21/2024 22:32	58001	WCAR_T1	4	4	0	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
5/21/2024 22:32	62102	ELAN_T1	0	0	0	0	0	0	2.13	2	0	0	0	0	0	0
5/21/2024 22:32	53901	HALI_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
5/21/2024 22:32	53903	HALI_T2	2	2	0	0.9	1.45	0.55	-0.08	-0.08	0	0	0	0	0	0
5/21/2024 22:32	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.29	0	0	0	0	0	0
5/21/2024 22:32	20401	ASHF_T2	3	2	-1	0.67	0.2	-0.47	0	0	0	0	0	0	0	0
5/21/2024 22:32	45501	DERR_T2	3	2	-1	0.53	1.1	0.57	-0.16	-0.23	2	2	0	1800	1800	0
5/21/2024 22:32	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.46	0	0	0	0	0	0
5/21/2024 22:33	42901	MIDD_T2	52	111	59	0.17	0.18	0.01	0	0	0	0	0	0	0	0
5/21/2024 22:33	67402	WAKE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/21/2024 22:33	53902	HALI_T2	1	1	0	5.2	5.9	0.7	0	0	0	0	0	0	0	0
5/21/2024 22:33	67605	WARW_T1	0	0	0	0	0	0	-1.15	-1.21	0	0	0	0	0	0
5/21/2024 22:33	56501	ROCK_T2	2	5	3	0.4	0.42	0.02	83.96	83.96	0	0	0	0	0	0
5/21/2024 22:33	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 22:33	64101	REFR_T1	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
5/21/2024 22:33	67401	WAKE_T2	144	123	-21	0.36	0.32	-0.04	-0.88	-0.71	0	0	0	0	0	0
5/21/2024 22:33	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 22:33	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 22:33	66505	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/21/2024 22:33	41901	REED_T1	6	7	1	0.2	0.34	0.14	0	0	0	0	0	0	0	0
5/21/2024 22:33	43301	WATS_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
5/21/2024 22:33	17805	GILB_T2	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
5/21/2024 22:33	42903	MIDD_T2	2	3	1	1.7	1.33	-0.37	-0.17	-0.18	0	0	0	0	0	0
5/21/2024 22:33	47101	MARL_T1	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
5/21/2024 22:33	42902	MIDD_T2	35	50	15	0.41	0.42	0.01	0	0	0	0	0	0	0	0
5/21/2024 22:33	53903	HALI_T2	2	2	0	0.9	1.45	0.55	-0.08	-0.08	0	0	0	0	0	0
5/21/2024 22:33	41902	REED_T1	0	0	0	0	0	0	0.21	0.3	1	1	0	900	900	0
5/21/2024 22:33	10801	CHHI_T1	0	0	0	0	0	0	-3.4	-3.38	6	6	0	4200	4200	0
5/21/2024 22:33	55101	WERT_T1	0	0	0	0	0	0	-2.74	-3.97	4	6	2	3600	4800	1200
5/21/2024 22:33	45902	AUBU_T1	0	0	0	0	0	0	-0.89	-0.83	1	1	0	600	600	0
5/21/2024 22:33	46001	BERW_T1	0	0	0	0	0	0	0.82	0.77	0	0	0	0	0	0
5/21/2024 22:33	51604	DUKE_T2	0	0	0	0	0	0	-1.09	-0.06	1	0	-1	900	0	-900
5/21/2024 22:33	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/21/2024 22:33	53901	HALI_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
5/21/2024 22:33	45501	DERR_T2	3	2	-1	0.53	1.1	0.57	-0.32	-0.46	4	4	0	3600	3600	0
5/21/2024 22:34	55002	NEWP_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
5/21/2024 22:34	13704	SCHN_T2	0	0	0	0	0	0	0.02	-0.12	0	0	0	0	0	0
5/21/2024 22:34	42902	MIDD_T2	35	50	15	0.41	0.42	0.01	-0.31	-0.37	0	0	0	0	0	0
5/21/2024 22:34	47101	MARL_T1	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
5/21/2024 22:34	61801	EELI_T2	0	0	0	0	0	0	-0.12	-0.23	0	0	0	0	0	0
5/21/2024 22:34	58401	MORO_T1	0	0	0	0	0	0	-0.95	-0.94	1	1	0	600	600	0
5/21/2024 22:34	44301	BEAV_T2	0	0	0	0	0	0	0.22	0.28	1	1	0	600	600	0
5/21/2024 22:34	47401	PENS_T1	0	0	0	0	0	0	1.13	1.07	0	0	0	0	0	0
5/21/2024 22:34	60201	ATGL_T2	0	0	0	0	0	0	0.56	0.48	0	0	0	0	0	0
5/21/2024 22:34	14802	TREI_T2	0	0	0	0	0	0	0.58	0.5	0	0	0	0	0	0
5/21/2024 22:34	42903	MIDD_T2	2	3	1	1.7	1.33	-0.37	0	0	0	0	0	0	0	0
5/21/2024 22:34	52402	GRPA_T2	2	0	-2	0.2	0	-0.2	-0.72	-0.77	0	0	0	0	0	0
5/21/2024 22:34	61102	BERK_T5	0	0	0	0	0	0	0.42	0.37	1	1	0	300	300	0
5/21/2024 22:34	67502	WEWI_T2	6	6	0	0.12	0.12	0	-1.18	-1.23	1	1	0	900	900	0
5/21/2024 22:34	64503	LAVI_T1	0	0	0	0	0	0	-0.27	-0.38	1	1	0	1200	1200	0
5/21/2024 22:34	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 22:34	42201	SHEN_T2	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
5/21/2024 22:34	42901	MIDD_T2	52	111	59	0.17	0.18	0.01	0	0	0	0	0	0	0	0
5/21/2024 22:35	56803	BENV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/21/2024 22:35	63401	HONY_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
5/21/2024 22:35	56801	BENV_T1	13	18	5	0.72	1.24	0.52	-0.28	-0.89	1	2	1	600	1200	600
5/21/2024 22:35	67803	WLAN_T1	0	0	0	0	0	0	-0.58	-0.64	0	0	0	0	0	0
5/21/2024 22:35	67805	WLAN_T1	100	15	-85	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
5/21/2024 22:35	64801	MONE_T2	5	3	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
5/21/2024 22:35	56501	ROCK_T2	2	5	3	0.4	0.42	0.02	167.92	167.92	0	0	0	0	0	0
5/21/2024 22:35	52102	MEIS_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
5/21/2024 22:35	63404	HONY_T1	43	52	9	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
5/21/2024 22:35	64802	MONE_T2	2	0	-2	0.15	0	-0.15	0.39	0.33	0	0	0	0	0	0
5/21/2024 22:35	52101	MEIS_T1	2	2	0	1.1	1.25	0.15	0	0	0	0	0	0	0	0
5/21/2024 22:35	55002	NEWP_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
5/21/2024 22:35	65205	PRIN_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
5/21/2024 22:35	61103	BERK_T5	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
5/21/2024 22:36	66701	STRA_T1	0	0	0	0	0	0	0.77	0.71	0	0	0	0	0	0
5/21/2024 22:36	64101	REFR_T1	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
5/21/2024 22:36	63401	HONY_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
5/21/2024 22:36	52402	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/21/2024 22:36	67605	WARW_T1	0	0	0	0	0	0	-1.15	-1.21	0	0	0	0	0	0
5/21/2024 22:36	45501	DERR_T2	3	2	-1	0.53	1.1	0.57	-0.32	-0.46	4	4	0	3600	3600	0
5/21/2024 22:36	47401	PENS_T1	0	0	0	0	0	0	1.13	1.07	0	0	0	0	0	0
5/21/2024 22:36	67801	WLAN_T1	0	0	0	0	0	0	0.42	0.34	0	0	0	0	0	0
5/21/2024 22:36	58402	MORO_T1	0	0	0	0	0	0	-0.45	-1.1	4	4	0	3000	3600	600
5/21/2024 22:36	65904	SAKR_T2	0	0	0	0	0	0	-1.48	-1.46	3	3	0	1500	1500	0
5/21/2024 22:36	67201	TEHI_T1	0	0	0	0	0	0	-0.16	-1.19	1	2	1	600	1500	900
5/21/2024 22:36	66703	STRA_T1	40	91	51	0.23	0.29	0.06	-0.15	-0.21	0	0	0	0	0	0
5/21/2024 22:36	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 22:36	44301	BEAV_T2	0	0	0	0	0	0	0.22	0.28	1	1	0	600	600	0
5/21/2024 22:36	65901	SAKR_T2	1	1	0	8.2	8.7	0.5	0	0	0	0	0	0	0	0
5/21/2024 22:36	67805	WLAN_T1	100	15	-85	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
5/21/2024 22:36	52002	LING_T2	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
5/21/2024 22:36	63404	HONY_T1	43	52	9	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
5/21/2024 22:36	52403	GRPA_T2	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
5/21/2024 22:37	58003	WCAR_T1	1	1	0	1.1	1	-0.1	0.77	0.73	0	0	0	0	0	0
5/21/2024 22:37	67605	WARW_T1	0	0	0	0	0	0	-1.15	-1.21	0	0	0	0	0	0
5/21/2024 22:37	41902	REED_T1	0	0	0	0	0	0	0.21	0.3	1	1	0	900	900	0
5/21/2024 22:37	41901	REED_T1	6	7	1	0.2	0.34	0.14	0	0	0	0	0	0	0	0
5/21/2024 22:37	45501	DERR_T2	3	2	-1	0.53	1.1	0.57	-0.16	-0.23	2	2	0	1800	1800	0
5/21/2024 22:37	66503	SMAN_T2	0	0	0	0	0	0	0.65	0.67	0	0	0	0	0	0
5/21/2024 22:37	63804	HEMP_T1	1	1	0	6	5.7	-0.3	-0.22	-0.27	0	0	0	0	0	0
5/21/2024 22:37	58001	WCAR_T1	4	4	0	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
5/21/2024 22:37	66505	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/21/2024 22:37	63302	GREE_T1	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
5/21/2024 22:37	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.46	0	0	0	0	0	0
5/21/2024 22:37	64101	REFR_T1	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
5/21/2024 22:38	65604	QVIL_T2	2	2	0	0.15	0.1	-0.05	0.4	0.38	0	0	0	0	0	0
5/21/2024 22:38	52402	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/21/2024 22:38	59101	WALK_T2	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
5/21/2024 22:38	54206	PENN_T2	0	0	0	0	0	0	-0.22	-0.16	0	0	0	0	0	0
5/21/2024 22:38	67901	WNHO_T2	0	0	0	0	0	0	-0.61	-0.66	1	1	0	900	900	0
5/21/2024 22:38	65601	QVIL_T2	37	58	21	0.15	0.17	0.02	0	0	0	0	0	0	0	0
5/21/2024 22:38	57403	SPAN_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
5/21/2024 22:38	55105	WERT_T1	0	0	0	0	0	0	-0.17	-0.18	1	1	0	900	900	0
5/21/2024 22:38	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/21/2024 22:38	52403	GRPA_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
5/21/2024 22:38	64101	REFR_T1	0	0	0	0	0	0	0.22	0.14	0	0	0	0	0	0
5/21/2024 22:39	62606	ENGL_T1	0	0	0	0	0	0	-0.6	-0.68	2	2	0	1500	1500	0
5/21/2024 22:40	63304	GREE_T1	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
5/21/2024 22:42	62607	ENGL_T1	0	0	0	0	0	0	-0.73	-0.78	1	1	0	300	300	0
5/21/2024 22:47	57001	WHHI_T2	0	0	0	0	0	0	-1.37	-1.37	1	1	0	900	900	0
5/21/2024 23:57	60101	COCA_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
5/22/2024 0:04	11103	EGYP_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
5/22/2024 3:29	16605	PONO_T1	0	0	0	0	0	0	-0.49	-0.48	1	1	0	1200	1200	0
5/22/2024 3:57	65901	SAKR_T2	1	1	0	8.5	8.5	0	-1.34	-1.32	1	1	0	900	900	0
5/22/2024 7:26	67002	STHI_T2	0	0	0	0	0	0	0.83	0.89	0	0	0	0	0	0
5/22/2024 7:42	45502	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 7:42	45501	DERR_T2	2	1	-1	0.15	0	-0.15	0.56	0.64	2	2	0	1800	1800	0
5/22/2024 7:50	67402	WAKE_T2	0	0	0	0	0	0	1.03	1.08	0	0	0	0	0	0
5/22/2024 11:01	11507	FREE_T2	0	1	1	0	0	0	1.23	1.21	0	0	0	0	0	0
5/22/2024 11:06	41902	REED_T1	0	0	0	0	0	0	0.5	0.53	1	1	0	900	900	0
5/22/2024 11:07	64101	REFR_T1	2	3	1	0.45	0.4	-0.05	0.16	0.21	0	0	0	0	0	0
5/22/2024 11:08	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
5/22/2024 11:08	14102	TRUM_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/22/2024 11:08	64101	REFR_T1	2	3	1	0.45	0.4	-0.05	0.21	0.22	0	0	0	0	0	0
5/22/2024 11:08	14103	TRUM_T2	2	3	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/22/2024 11:08	15702	TANN_T2	2	3	1	0.8	0.5	-0.3	-0.14	-0.13	0	0	0	0	0	0
5/22/2024 11:08	14101	TRUM_T2	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
5/22/2024 11:09	20403	ASHF_T2	3	3	0	0.4	0.3	-0.1	1.55	1.66	0	0	0	0	0	0
5/22/2024 11:09	67903	WNHO_T1	0	0	0	0	0	0	1.17	1.19	1	1	0	1200	1200	0
5/22/2024 11:09	57403	SPAN_T1	4	1	-3	0.23	0.4	0.17	0	0	0	0	0	0	0	0
5/22/2024 11:09	57401	SPAN_T1	1	0	-1	0.2	0	-0.2	-1.02	-0.95	1	1	0	600	600	0
5/22/2024 11:09	20402	ASHF_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/22/2024 11:09	41902	REED_T1	0	0	0	0	0	0	0.53	0.54	1	1	0	900	900	0
5/22/2024 11:09	20401	ASHF_T2	6	5	-1	1.32	0.58	-0.74	0	0	0	0	0	0	0	0
5/22/2024 11:10	67605	WARW_T1	13	10	-3	0.48	0.44	-0.04	0	0	0	0	0	0	0	0
5/22/2024 11:10	67603	WARW_T1	1	1	0	0.2	0.5	0.3	0.24	0.29	0	0	0	0	0	0
5/22/2024 11:10	15702	TANN_T2	2	3	1	0.8	0.5	-0.3	-0.13	-0.16	0	0	0	0	0	0
5/22/2024 11:10	29402	BELT_T1	1	2	1	6.8	4.25	-2.55	0	0	0	0	0	0	0	0
5/22/2024 11:10	45902	AUBU_T1	0	1	1	0	1	1	-0.33	-0.35	1	1	0	600	600	0
5/22/2024 11:10	67702	WERN_T2	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
5/22/2024 11:10	14801	TREI_T2	1	1	0	0.7	0.8	0.1	0.68	0.7	0	0	0	0	0	0
5/22/2024 11:10	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 11:10	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
5/22/2024 11:11	29402	BELT_T1	1	2	1	6.8	4.25	-2.55	0	0	0	0	0	0	0	0
5/22/2024 11:11	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 11:11	20402	ASHF_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/22/2024 11:11	20401	ASHF_T2	6	5	-1	1.32	0.58	-0.74	0	0	0	0	0	0	0	0
5/22/2024 11:11	45902	AUBU_T1	0	1	1	0	1	1	-0.66	-0.69	2	2	0	1200	1200	0
5/22/2024 11:11	20403	ASHF_T2	3	3	0	0.4	0.3	-0.1	1.55	1.66	0	0	0	0	0	0
5/22/2024 11:11	67601	WARW_T2	0	0	0	0	0	0	-0.02	0.02	0	0	0	0	0	0
5/22/2024 11:11	44301	BEAV_T2	4	4	0	0.6	0.38	-0.22	0.72	0.57	2	2	0	1500	1500	0
5/22/2024 11:12	60101	COCA_T1	3	2	-1	0.47	0.7	0.23	0	0	0	0	0	0	0	0
5/22/2024 11:12	60102	COCA_T1	1	0	-1	0.1	0	-0.1	-1.15	-1.04	3	3	0	2100	2100	0
5/22/2024 11:12	20403	ASHF_T2	3	3	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/22/2024 11:12	20402	ASHF_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/22/2024 11:12	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 11:12	58001	WCAR_T1	5	3	-2	0.64	0.17	-0.47	0	0	0	0	0	0	0	0
5/22/2024 11:12	20401	ASHF_T2	6	5	-1	1.32	0.58	-0.74	0.08	0.21	0	0	0	0	0	0
5/22/2024 11:12	67603	WARW_T1	1	0	-1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/22/2024 11:12	29402	BELT_T1	1	2	1	6.8	4.25	-2.55	0	0	0	0	0	0	0	0
5/22/2024 11:12	48302	ORWI_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
5/22/2024 11:12	67605	WARW_T1	13	10	-3	0.48	0.44	-0.04	-0.84	-0.77	0	0	0	0	0	0
5/22/2024 11:12	58003	WCAR_T1	4	1	-3	0.48	0.4	-0.08	1.11	1.17	0	0	0	0	0	0
5/22/2024 11:12	45902	AUBU_T1	0	1	1	0	1	1	-0.66	-0.69	2	2	0	1200	1200	0
5/22/2024 11:14	67401	WAKE_T2	5	4	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/22/2024 11:14	16103	BING_T2	1	1	0	0.7	0.3	-0.4	-0.19	-0.03	0	0	0	0	0	0
5/22/2024 11:14	67402	WAKE_T2	0	0	0	0	0	0	1.36	1.38	0	0	0	0	0	0
5/22/2024 11:14	44301	BEAV_T2	4	4	0	0.6	0.38	-0.22	0.72	0.57	2	2	0	1500	1500	0
5/22/2024 11:14	58003	WCAR_T1	4	1	-3	0.48	0.4	-0.08	1.11	1.17	0	0	0	0	0	0
5/22/2024 11:14	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 11:14	29402	BELT_T1	1	2	1	6.8	4.25	-2.55	0	0	0	0	0	0	0	0
5/22/2024 11:14	58001	WCAR_T1	5	3	-2	0.64	0.17	-0.47	0	0	0	0	0	0	0	0
5/22/2024 11:14	16102	BING_T2	2	5	3	0.4	0.32	-0.08	0	0	0	0	0	0	0	0
5/22/2024 11:15	44301	BEAV_T2	2	7	5	0.7	0.43	-0.27	0.72	0.57	2	2	0	1500	1500	0
5/22/2024 11:15	45902	AUBU_T1	1	1	0	1	1	0	-0.33	-0.35	1	1	0	600	600	0
5/22/2024 11:15	10805	CHHI_T2	15	27	12	0.71	0.43	-0.28	-0.51	-0.52	2	2	0	1200	1200	0
5/22/2024 11:15	29402	BELT_T1	2	20	18	3.25	0.84	-2.41	0	0	0	0	0	0	0	0
5/22/2024 11:15	21203	ECAR_T1	0	0	0	0	0	0	-0.08	-0.05	0	0	0	0	0	0
5/22/2024 11:15	29401	BELT_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/22/2024 11:16	44301	BEAV_T2	2	7	5	0.7	0.43	-0.27	0.72	0.57	2	2	0	1500	1500	0
5/22/2024 11:18	53601	DALM_T2	1	1	0	0.5	1	0.5	-0.17	-0.11	1	1	0	900	900	0
5/22/2024 11:18	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 11:18	17805	GILB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/22/2024 11:18	10102	ALLE_T2	1	1	0	7.5	7.5	0	0	0	0	0	0	0	0	0
5/22/2024 11:18	45502	DERR_T2	3	30	27	0.33	0.29	-0.04	0.35	0.33	1	1	0	300	300	0
5/22/2024 11:18	45501	DERR_T2	1	3	2	1	0.63	-0.37	0	0	0	0	0	0	0	0
5/22/2024 11:18	17802	GILB_T1	2	2	0	0.35	0.25	-0.1	0.31	0.29	0	0	0	0	0	0
5/22/2024 11:18	64904	MILL_T1	1	1	0	0.2	0.3	0.1	0.07	0.06	0	0	0	0	0	0
5/22/2024 11:18	17804	GILB_T2	2	5	3	0.6	0.3	-0.3	-0.51	-0.46	0	0	0	0	0	0
5/22/2024 11:19	63401	HONY_T1	0	0	0	0	0	0	0.97	1.04	0	0	0	0	0	0
5/22/2024 11:19	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 11:19	56501	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/22/2024 11:19	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/22/2024 11:20	56802	BENV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 11:20	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/22/2024 11:20	12701	MACU_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
5/22/2024 11:20	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 11:20	25502	MADI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/22/2024 11:20	56501	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/22/2024 11:20	25503	MADI_T1	12	3	-9	0.18	0.13	-0.05	-0.62	-0.68	0	0	0	0	0	0
5/22/2024 11:20	25501	MADI_T1	1	2	1	1.2	1.05	-0.15	0	0	0	0	0	0	0	0
5/22/2024 11:21	56802	BENV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 11:21	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 11:21	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/22/2024 11:22	29401	BELT_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/22/2024 11:22	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 11:22	13501	MCMI_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
5/22/2024 11:22	66501	SMAN_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/22/2024 11:22	66502	SMAN_T2	2	2	0	0.5	0.8	0.3	0.95	0.98	0	0	0	0	0	0
5/22/2024 11:22	66504	SMAN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/22/2024 11:22	29402	BELT_T1	2	20	18	3.25	0.84	-2.41	0	0	0	0	0	0	0	0
5/22/2024 11:22	56501	ROCK_T2	0	0	0	0	0	0	167.92	167.92	0	0	0	0	0	0
5/22/2024 11:22	13502	MCMI_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/22/2024 11:22	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/22/2024 11:23	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 11:23	56802	BENV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 11:23	66504	SMAN_T2	1	1	0	0.2	0.4	0.2	-1.96	0.45	2	2	0	2400	2400	0
5/22/2024 11:23	64801	MONE_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/22/2024 11:23	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/22/2024 11:23	43201	MVIL_T2	0	0	0	0	0	0	-1.21	-1.19	0	0	0	0	0	0
5/22/2024 11:23	13501	MCMI_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
5/22/2024 11:23	66501	SMAN_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/22/2024 11:23	42802	SELI_T1	0	0	0	0	0	0	-1.56	-1.47	1	1	0	900	900	0
5/22/2024 11:23	64802	MONE_T2	5	23	18	0.3	0.32	0.02	0.49	0.42	0	0	0	0	0	0
5/22/2024 11:23	13502	MCMI_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/22/2024 11:23	56501	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/22/2024 11:23	66502	SMAN_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/22/2024 11:23	13606	RICH_T2	1	1	0	8	7.7	-0.3	1.52	1.55	0	0	0	0	0	0
5/22/2024 11:24	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/22/2024 11:24	45902	AUBU_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
5/22/2024 11:24	45901	AUBU_T1	0	0	0	0	0	0	1.07	1.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/22/2024 11:24	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 11:24	56501	ROCK_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/22/2024 11:25	66502	SMAN_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/22/2024 11:25	66501	SMAN_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/22/2024 11:25	66504	SMAN_T2	1	1	0	0.2	0.4	0.2	-0.98	0.22	1	0	-1	1200	0	-1200
5/22/2024 11:25	67201	TEHI_T1	5	0	-5	0.28	0	-0.28	0	0	0	0	0	0	0	0
5/22/2024 11:25	60201	ATGL_T2	0	0	0	0	0	0	0.92	0.93	0	0	0	0	0	0
5/22/2024 11:25	13905	SEID_T1	1	0	-1	0.1	0	-0.1	-0.55	-0.61	1	1	0	1200	1200	0
5/22/2024 11:25	67203	TEHI_T1	0	1	1	0	0	0	2.03	1.71	4	4	0	3000	3000	0
5/22/2024 11:26	42802	SELI_T1	0	0	0	0	0	0	-1.47	-1.46	1	1	0	900	900	0
5/22/2024 11:26	45902	AUBU_T1	1	1	0	1	1	0	-0.35	-0.28	1	1	0	600	600	0
5/22/2024 11:27	29402	BELT_T1	2	20	18	3.25	0.84	-2.41	0	0	0	0	0	0	0	0
5/22/2024 11:27	12701	MACU_T1	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
5/22/2024 11:27	29401	BELT_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/22/2024 11:30	56802	BENV_T2	0	0	0	0	0	0	0	0	0	1	1	0	600	600
5/22/2024 11:30	40101	HUNT_T2	1	4	3	0.1	0.3	0.2	-0.32	-0.26	0	0	0	0	0	0
5/22/2024 11:31	25402	LAHA_T2	2	1	-1	0.45	0.1	-0.35	-0.13	-0.18	0	0	0	0	0	0
5/22/2024 11:31	25404	LAHA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/22/2024 11:32	29401	BELT_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/22/2024 11:32	45501	DERR_T2	2	2	0	0.9	0.75	-0.15	0.88	0.85	2	2	0	1800	1800	0
5/22/2024 11:32	45502	DERR_T2	27	31	4	0.29	0.32	0.03	0	0	0	0	0	0	0	0
5/22/2024 11:32	29402	BELT_T1	2	20	18	4.25	0.84	-3.41	0	0	0	0	0	0	0	0
5/22/2024 11:34	47802	MOCA_T2	1	1	0	0.5	0.9	0.4	-0.72	-0.72	0	0	0	0	0	0
5/22/2024 11:34	40101	HUNT_T2	1	4	3	0.1	0.3	0.2	-0.32	-0.26	0	0	0	0	0	0
5/22/2024 11:34	13503	MCMI_T2	2	2	0	0.55	0.55	0	-0.01	0.04	0	0	0	0	0	0
5/22/2024 11:35	65205	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 11:35	41902	REED_T1	0	3	3	0	0.3	0.3	0.54	0.49	1	1	0	900	900	0
5/22/2024 11:35	23401	HONE_T2	0	1	1	0	0	0	0.58	0.55	0	0	0	0	0	0
5/22/2024 11:36	55001	NEWP_T1	2	2	0	0.4	0.75	0.35	0	0	0	0	0	0	0	0
5/22/2024 11:36	52403	GRPA_T2	6	6	0	0.43	0.26	-0.17	0.4	0.48	0	0	0	0	0	0
5/22/2024 11:36	52402	GRPA_T2	2	9	7	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
5/22/2024 11:36	55002	NEWP_T1	5	10	5	0.86	0.69	-0.17	-0.21	-0.21	0	0	0	0	0	0
5/22/2024 11:37	48302	ORWI_T2	2	2	0	0.4	0.85	0.45	-0.3	-0.26	0	0	0	0	0	0
5/22/2024 11:38	15702	TANN_T2	2	2	0	0.7	0.8	0.1	-0.16	-0.03	0	0	0	0	0	0
5/22/2024 11:38	15703	TANN_T2	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
5/22/2024 11:38	67502	WEWI_T2	2	4	2	0.8	0.75	-0.05	-0.77	-0.75	1	1	0	900	900	0
5/22/2024 11:38	67503	WEWI_T2	0	0	0	0	0	0	0.84	0.89	0	0	0	0	0	0
5/22/2024 11:39	55002	NEWP_T1	5	10	5	0.86	0.69	-0.17	-0.07	-0.07	0	0	0	0	0	0
5/22/2024 11:39	50701	SMEC_T1	6	8	2	0.5	0.68	0.18	-0.01	0.02	1	1	0	1200	1200	0
5/22/2024 11:39	55001	NEWP_T1	2	2	0	0.4	0.75	0.35	0	0	0	0	0	0	0	0
5/22/2024 11:39	64101	REFR_T1	3	2	-1	0.4	0.6	0.2	0.3	0.28	0	0	0	0	0	0
5/22/2024 11:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 11:41	44301	BEAV_T2	3	9	6	0.43	0.7	0.27	0.86	0.71	2	2	0	1500	1500	0
5/22/2024 11:41	67502	WEWI_T2	2	4	2	0.8	0.75	-0.05	-1.54	-1.5	2	2	0	1800	1800	0
5/22/2024 11:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 11:42	67603	WARW_T1	1	0	-1	0.4	0	-0.4	0.23	0.3	0	0	0	0	0	0
5/22/2024 11:42	67605	WARW_T1	5	1	-4	0.4	1.8	1.4	0	0	0	0	0	0	0	0
5/22/2024 11:42	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/22/2024 11:42	44301	BEAV_T2	3	9	6	0.43	0.7	0.27	0.86	0.71	2	2	0	1500	1500	0
5/22/2024 11:43	58003	WCAR_T1	1	3	2	0.3	0.3	0	0	0	0	0	0	0	0	0
5/22/2024 11:43	44301	BEAV_T2	3	9	6	0.43	0.7	0.27	0.86	0.71	2	2	0	1500	1500	0
5/22/2024 11:43	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 11:43	58001	WCAR_T1	0	4	4	0	0.33	0.33	1.18	1.14	0	0	0	0	0	0
5/22/2024 11:44	44301	BEAV_T2	3	9	6	0.43	0.7	0.27	0.86	0.71	2	2	0	1500	1500	0
5/22/2024 11:46	46801	HEPB_T2	0	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0
5/22/2024 11:46	46803	HEPB_T2	1	1	0	0.1	0.8	0.7	0.58	0.56	0	0	0	0	0	0
5/22/2024 11:48	26603	BROO_T1	0	0	0	0	0	0	0.6	0.02	0	0	0	0	0	0
5/22/2024 11:49	45902	AUBU_T1	1	1	0	0.8	1	0.2	-0.28	-0.31	1	1	0	600	600	0
5/22/2024 11:50	40902	JESH_T1	0	0	0	0	0	0	-0.68	-0.76	1	2	1	600	1200	600
5/22/2024 11:50	40901	JESH_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
5/22/2024 11:51	26603	BROO_T1	0	0	0	0	0	0	0.6	0.02	0	0	0	0	0	0
5/22/2024 11:52	48302	ORWI_T2	2	2	0	0.35	0.9	0.55	-0.26	-0.22	0	0	0	0	0	0
5/22/2024 11:53	17002	RIRO_T2	3	3	0	0.67	0.8	0.13	0.89	0.92	0	0	0	0	0	0
5/22/2024 11:54	66701	STRA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/22/2024 11:54	42601	TUSC_T1	0	0	0	0	0	0	-0.99	-0.85	3	3	0	2400	2400	0
5/22/2024 11:54	58402	MORO_T1	0	0	0	0	0	0	-0.71	-0.68	3	3	0	2400	2400	0
5/22/2024 11:54	66703	STRA_T1	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
5/22/2024 11:54	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/22/2024 11:54	48302	ORWI_T2	2	2	0	0.35	0.9	0.55	-0.22	-0.21	0	0	0	0	0	0
5/22/2024 11:54	48303	ORWI_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
5/22/2024 11:54	67605	WARW_T1	1	2	1	1.8	0.85	-0.95	-0.67	-0.7	0	0	0	0	0	0
5/22/2024 11:55	67605	WARW_T1	1	2	1	1.8	0.85	-0.95	-0.67	-0.7	0	0	0	0	0	0
5/22/2024 11:55	56503	ROCK_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
5/22/2024 11:55	56501	ROCK_T2	0	13	13	0	0.44	0.44	83.96	83.96	0	0	0	0	0	0
5/22/2024 11:55	60101	COCA_T1	2	2	0	0.65	0.8	0.15	0.72	0.76	0	0	0	0	0	0
5/22/2024 11:55	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/22/2024 11:56	66701	STRA_T1	1	1	0	0.2	0.1	-0.1	0.43	0.4	1	1	0	600	600	0
5/22/2024 11:58	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/22/2024 11:58	60101	COCA_T1	2	2	0	0.65	0.8	0.15	0.72	0.76	0	0	0	0	0	0
5/22/2024 11:58	43101	SMIL_T2	1	1	0	0.5	0.7	0.2	-0.4	-0.39	0	0	0	0	0	0
5/22/2024 11:58	43108	SMIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/22/2024 11:59	60101	COCA_T1	2	2	0	0.65	0.8	0.15	0.72	0.76	0	0	0	0	0	0
5/22/2024 12:07	40101	HUNT_T2	1	6	5	0.3	0.1	-0.2	-0.66	-0.84	0	0	0	0	0	0
5/22/2024 12:09	13503	MCMI_T2	2	257	255	0.1	0.62	0.52	-2.49	-2.49	0	0	0	0	0	0
5/22/2024 12:09	15601	NSTR_T2	4	4	0	0.33	0.43	0.1	0	0	0	0	0	0	0	0
5/22/2024 12:09	15603	NSTR_T2	0	1	1	0	0.1	0.1	-0.5	-0.48	0	0	0	0	0	0
5/22/2024 12:10	40101	HUNT_T2	1	6	5	0.3	0.1	-0.2	-0.28	-0.25	0	0	0	0	0	0
5/22/2024 12:12	44301	BEAV_T2	4	9	5	0.7	0.72	0.02	-0.35	-0.13	2	2	0	1500	1500	0
5/22/2024 12:14	14203	EALL_T1	4	3	-1	0.25	0.3	0.05	0.52	0.5	1	1	0	1200	1200	0
5/22/2024 12:14	13503	MCMI_T2	2	257	255	0.1	0.62	0.52	-0.83	-0.83	0	0	0	0	0	0
5/22/2024 12:14	63806	GREE_T1	0	0	0	0	0	0	-1.66	-1.66	1	1	0	900	900	0
5/22/2024 12:14	15601	NSTR_T2	4	4	0	0.33	0.43	0.1	0	0	0	0	0	0	0	0
5/22/2024 12:14	15603	NSTR_T2	0	1	1	0	0.1	0.1	-0.5	-0.48	0	0	0	0	0	0
5/22/2024 12:14	58003	WCAR_T1	1	5	4	0.4	0.54	0.14	0.55	0.64	1	1	0	600	600	0
5/22/2024 12:14	58001	WCAR_T1	3	5	2	0.13	0.42	0.29	0	0	0	0	0	0	0	0
5/22/2024 12:14	58402	MORO_T1	0	0	0	0	0	0	-0.68	-0.64	3	3	0	2400	2400	0
5/22/2024 12:17	63804	HEMP_T1	1	1	0	7.2	6.8	-0.4	-0.12	-0.1	0	0	0	0	0	0
5/22/2024 12:17	63803	HEMP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/22/2024 12:17	63801	HEMP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/22/2024 12:18	46803	HEPB_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/22/2024 12:18	46801	HEPB_T2	2	2	0	0.85	0.95	0.1	0.19	0.17	0	0	0	0	0	0
5/22/2024 12:19	63802	GREE_T1	0	0	0	0	0	0	0.94	0.96	0	0	0	0	0	0
5/22/2024 12:19	64902	MILL_T2	0	0	0	0	0	0	-0.07	-0.01	1	1	0	900	900	0
5/22/2024 12:19	59301	MCAL_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/22/2024 12:19	59302	MCAL_T1	0	3	3	0	0	0	-0.05	-0.05	1	1	0	600	600	0
5/22/2024 12:20	64101	REFR_T1	1	2	1	0.2	0.15	-0.05	0.26	0.29	0	0	0	0	0	0
5/22/2024 12:21	58402	MORO_T1	0	0	0	0	0	0	-0.68	-0.64	3	3	0	2400	2400	0
5/22/2024 12:22	56501	ROCK_T2	13	12	-1	0.44	0.52	0.08	0	0	0	0	0	0	0	0
5/22/2024 12:22	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 12:22	56503	ROCK_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/22/2024 12:23	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/22/2024 12:23	57401	SPAN_T1	0	1	1	0	0.1	0.1	-0.91	-1	1	1	0	600	600	0
5/22/2024 12:23	47802	MOCA_T2	1	1	0	0.6	0.7	0.1	-0.83	-0.58	0	0	0	0	0	0
5/22/2024 12:23	64902	MILL_T2	0	0	0	0	0	0	-0.01	-0.02	2	2	0	1800	1800	0
5/22/2024 12:23	58402	MORO_T1	0	0	0	0	0	0	-0.64	-0.59	3	3	0	2400	2400	0
5/22/2024 12:24	57304	MOAL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/22/2024 12:24	57302	MOAL_T2	0	0	0	0	0	0	-1.01	-1	1	1	0	1200	1200	0
5/22/2024 12:24	57306	MOAL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/22/2024 12:24	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 12:24	56501	ROCK_T2	13	12	-1	0.44	0.52	0.08	0	0	0	0	0	0	0	0
5/22/2024 12:24	56802	BENV_T2	0	0	0	0	0	0	-0.05	0.01	0	0	0	0	0	0
5/22/2024 12:24	55105	WERT_T1	0	0	0	0	0	0	0.25	0.24	1	1	0	900	900	0
5/22/2024 12:24	13503	MCMI_T2	238	252	14	0.59	0.62	0.03	-0.83	-0.83	0	0	0	0	0	0
5/22/2024 12:24	57303	MOAL_T2	1	1	0	7.5	7.3	-0.2	0	0	0	0	0	0	0	0
5/22/2024 12:24	13606	RICH_T2	1	1	0	7.9	7.8	-0.1	1.63	1.44	0	0	0	0	0	0
5/22/2024 12:24	56503	ROCK_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/22/2024 12:25	59101	WALK_T2	0	0	0	0	0	0	0.15	0.35	0	0	0	0	0	0
5/22/2024 12:25	20403	ASHF_T2	7	16	9	0.47	0.32	-0.15	1.88	1.87	0	0	0	0	0	0
5/22/2024 12:25	59102	WALK_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/22/2024 12:25	56503	ROCK_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/22/2024 12:25	56501	ROCK_T2	13	12	-1	0.44	0.52	0.08	0	0	0	0	0	0	0	0
5/22/2024 12:25	13503	MCMI_T2	238	252	14	0.59	0.62	0.03	-0.83	-0.83	0	0	0	0	0	0
5/22/2024 12:25	20401	ASHF_T2	4	5	1	1.13	1	-0.13	0	0	0	0	0	0	0	0
5/22/2024 12:25	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 12:26	59102	WALK_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/22/2024 12:26	59101	WALK_T2	0	0	0	0	0	0	0.3	0.7	0	0	0	0	0	0
5/22/2024 12:26	59301	MCAL_T1	1	2	1	0.1	0.4	0.3	-1.44	-1.34	1	1	0	600	600	0
5/22/2024 12:26	42201	SHEN_T2	0	1	1	0	0.1	0.1	0.04	0.06	1	1	0	600	600	0
5/22/2024 12:26	59302	MCAL_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 12:27	42201	SHEN_T2	0	1	1	0	0.1	0.1	0.04	0.06	1	1	0	600	600	0
5/22/2024 12:27	56802	BENV_T2	0	0	0	0	0	0	-0.1	0.02	0	0	0	0	0	0
5/22/2024 12:28	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 12:28	62607	ENGL_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/22/2024 12:28	62601	ENGL_T1	0	0	0	0	0	0	-0.26	-0.19	0	0	0	0	0	0
5/22/2024 12:29	61802	EELI_T2	4	7	3	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
5/22/2024 12:29	61801	EELI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/22/2024 12:29	61803	EELI_T2	0	0	0	0	0	0	0.75	0.77	1	1	0	600	600	0
5/22/2024 12:30	60201	ATGL_T2	0	0	0	0	0	0	0.92	0.92	0	0	0	0	0	0
5/22/2024 12:31	60904	DONG_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/22/2024 12:31	60902	DONG_T2	0	2	2	0	0.2	0.2	1.25	1.17	0	0	0	0	0	0
5/22/2024 12:31	60901	DONG_T2	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
5/22/2024 12:33	58001	WCAR_T1	5	1	-4	0.42	0.1	-0.32	1.19	1.26	0	0	0	0	0	0
5/22/2024 12:33	40101	HUNT_T2	6	25	19	0.38	0.45	0.07	-0.25	-0.19	0	0	0	0	0	0
5/22/2024 12:33	58003	WCAR_T1	5	3	-2	0.54	0.4	-0.14	0	0	0	0	0	0	0	0
5/22/2024 12:34	40101	HUNT_T2	6	25	19	0.38	0.45	0.07	-0.25	-0.19	0	0	0	0	0	0
5/22/2024 12:34	53901	HALI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/22/2024 12:34	53903	HALI_T2	8	6	-2	0.84	0.68	-0.16	-0.01	-0.02	0	0	0	0	0	0
5/22/2024 12:34	53902	HALI_T2	3	3	0	2.23	1.97	-0.26	0	0	0	0	0	0	0	0
5/22/2024 12:35	59302	MCAL_T1	0	4	4	0	0.43	0.43	-0.05	0.05	1	1	0	600	600	0
5/22/2024 12:35	23403	HONE_T1	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
5/22/2024 12:35	44502	HAMI_T2	1	1	0	1.5	1.3	-0.2	-0.47	-0.43	0	0	0	0	0	0
5/22/2024 12:35	59301	MCAL_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/22/2024 12:35	40101	HUNT_T2	6	25	19	0.38	0.45	0.07	-0.25	-0.19	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/22/2024 12:36	53903	HALI_T2	8	6	-2	0.84	0.68	-0.16	-0.01	-0.03	0	0	0	0	0	0
5/22/2024 12:36	53902	HALI_T2	3	3	0	2.23	1.97	-0.26	0	0	0	0	0	0	0	0
5/22/2024 12:36	53901	HALI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/22/2024 12:37	58402	MORO_T1	0	0	0	0	0	0	-0.64	-0.59	3	3	0	2400	2400	0
5/22/2024 12:38	65001	NEFF_T2	0	0	0	0	0	0	0.42	0.5	1	1	0	1200	1200	0
5/22/2024 12:38	65004	NEFF_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/22/2024 12:38	65003	NEFF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/22/2024 12:39	58402	MORO_T1	0	0	0	0	0	0	-0.59	-0.58	3	3	0	2400	2400	0
5/22/2024 12:39	53901	HALI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/22/2024 12:39	53902	HALI_T2	3	3	0	2.23	1.97	-0.26	0	0	0	0	0	0	0	0
5/22/2024 12:39	53903	HALI_T2	8	6	-2	0.84	0.68	-0.16	-0.02	-0.01	0	0	0	0	0	0
5/22/2024 12:40	13503	MCMI_T2	246	231	-15	0.62	0.55	-0.07	-0.83	-0.81	0	0	0	0	0	0
5/22/2024 12:41	67401	WAKE_T2	3	4	1	0.5	0.45	-0.05	-0.8	-0.79	0	0	0	0	0	0
5/22/2024 12:41	13503	MCMI_T2	246	231	-15	0.62	0.55	-0.07	-0.83	-0.81	0	0	0	0	0	0
5/22/2024 12:41	67703	WERN_T2	0	0	0	0	0	0	-0.2	-0.27	1	1	0	900	900	0
5/22/2024 12:41	67702	WERN_T2	1	1	0	0.2	0.2	0	0.24	0.34	0	0	0	0	0	0
5/22/2024 12:43	67703	WERN_T2	0	0	0	0	0	0	-0.2	-0.27	1	1	0	900	900	0
5/22/2024 12:43	67702	WERN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/22/2024 12:44	59101	WALK_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
5/22/2024 12:44	59102	WALK_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/22/2024 12:45	24104	EHAZ_T1	5	17	12	0.28	0.28	0	-1.99	-1.9	1	1	0	1200	1200	0
5/22/2024 12:45	24105	EHAZ_T1	4	4	0	7.03	6.48	-0.55	0	0	0	0	0	0	0	0
5/22/2024 12:45	67702	WERN_T2	0	1	1	0	0.2	0.2	0.12	0.17	0	1	0	0	0	0
5/22/2024 12:45	24101	EHAZ_T1	29	7	-22	0.64	1.4	0.76	0	0	0	0	0	0	0	0
5/22/2024 12:45	24102	EHAZ_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
5/22/2024 12:46	67702	WERN_T2	0	1	1	0	0.2	0.2	0.12	0.17	0	0	0	0	0	0
5/22/2024 12:46	40101	HUNT_T2	16	17	1	0.36	0.26	-0.1	-0.38	-0.5	0	0	0	0	0	0
5/22/2024 12:49	53901	HALI_T2	1	0	-1	0.2	0	-0.2	-1.15	-1.11	0	0	0	0	0	0
5/22/2024 12:49	40101	HUNT_T2	16	17	1	0.36	0.26	-0.1	-0.38	-0.5	0	0	0	0	0	0
5/22/2024 12:49	53902	HALI_T2	3	3	0	1.97	1.97	0	0	0	0	0	0	0	0	0
5/22/2024 12:49	64702	LITI_T2	0	0	0	0	0	0	0.03	0.1	0	0	0	0	0	0
5/22/2024 12:49	53903	HALI_T2	6	6	0	0.67	0.62	-0.05	0	0	0	0	0	0	0	0
5/22/2024 12:50	42902	MIDD_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/22/2024 12:50	42903	MIDD_T2	2	2	0	0.7	0.55	-0.15	1.2	1.22	1	1	0	1200	1200	0
5/22/2024 12:51	13503	MCMI_T2	223	240	17	0.51	0.61	0.1	-0.83	-0.81	0	0	0	0	0	0
5/22/2024 12:51	64702	LITI_T2	0	0	0	0	0	0	0.01	0.05	0	0	0	0	0	0
5/22/2024 12:51	49803	UNIV_T1	0	1	1	0	0.3	0.3	-0.47	-0.49	0	0	0	0	0	0
5/22/2024 12:53	65901	SAKR_T2	1	1	0	7.2	6.8	-0.4	-0.67	-0.6	2	2	0	1500	1500	0
5/22/2024 12:54	64101	REFR_T1	0	1	1	0	0	0	0.32	0.29	0	0	0	0	0	0
5/22/2024 12:55	67901	WHHO_T2	0	0	0	0	0	0	0.59	0.71	1	1	0	900	900	0
5/22/2024 12:55	64101	REFR_T1	0	1	1	0	0	0	0.97	0.87	0	0	0	0	0	0
5/22/2024 12:56	64101	REFR_T1	0	1	1	0	0	0	0.64	0.58	0	0	0	0	0	0
5/22/2024 12:57	45402	WBLO_T2	1	1	0	0.7	0.6	-0.1	-1.13	-1.1	1	1	0	900	900	0
5/22/2024 12:57	45902	AUBU_T1	1	1	0	0.4	0.2	-0.2	-0.27	-0.29	1	1	0	600	600	0
5/22/2024 12:57	56802	BENV_T2	0	0	0	0	0.2	0.2	-0.04	-0.03	0	0	0	0	0	0
5/22/2024 13:01	24101	EHAZ_T1	1	32	31	1.4	0.3	-1.1	0	0	0	0	0	0	0	0
5/22/2024 13:01	24104	EHAZ_T1	7	18	11	0.44	0.27	-0.17	-1.9	-1.92	1	1	0	1200	1200	0
5/22/2024 13:01	24701	FLND_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
5/22/2024 13:01	24105	EHAZ_T1	4	4	0	6.55	6.48	-0.07	0	0	0	0	0	0	0	0
5/22/2024 13:01	24102	EHAZ_T1	1	2	1	1.2	2.6	1.4	0	0	0	0	0	0	0	0
5/22/2024 13:01	51603	DUKE_T1	0	0	0	0	0	0	0.23	0.26	0	0	0	0	0	0
5/22/2024 13:01	24702	FLND_T2	2	3	1	0.7	0.83	0.13	0	0	0	0	0	0	0	0
5/22/2024 13:02	40101	HUNT_T2	17	9	-8	0.39	0.22	-0.17	-0.5	-0.48	0	0	0	0	0	0
5/22/2024 13:02	29401	BELT_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/22/2024 13:02	29402	BELT_T1	8	9	1	1.53	1.49	-0.04	0	0	0	0	0	0	0	0
5/22/2024 13:03	46506	LOHA_T1	0	0	0	0	0	0	-0.2	-0.17	0	0	0	0	0	0
5/22/2024 13:03	49803	UNIV_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/22/2024 13:03	46501	LOHA_T1	6	5	-1	0.63	0.45	-0.18	0	0	0	0	0	0	0	0
5/22/2024 13:03	49804	UNIV_T1	0	0	0	0	0	0	1.59	1.66	0	0	0	0	0	0
5/22/2024 13:05	40101	HUNT_T2	17	9	-8	0.39	0.22	-0.17	-0.5	-0.48	0	0	0	0	0	0
5/22/2024 13:06	12701	MACU_T1	1	1	0	1	0	-1	0.29	0.3	0	0	0	0	0	0
5/22/2024 13:07	13503	MCMI_T2	216	238	22	0.53	0.61	0.08	-0.81	-0.82	0	0	0	0	0	0
5/22/2024 13:07	12701	MACU_T1	1	1	0	1	0	-1	0.29	0.3	0	0	0	0	0	0
5/22/2024 13:09	64101	REFR_T1	0	0	0	0	0	0	0.29	0.35	0	0	0	0	0	0
5/22/2024 13:11	64101	REFR_T1	0	0	0	0	0	0	0.58	0.71	0	0	0	0	0	0
5/22/2024 13:12	64101	REFR_T1	0	0	0	0	0	0	0.58	0.71	0	0	0	0	0	0
5/22/2024 13:15	44301	BEAV_T2	5	6	1	0.94	0.87	-0.07	0.89	0.86	2	2	0	1500	1500	0
5/22/2024 13:16	63602	LETO_T1	0	2	2	0	0.45	0.45	-0.18	-0.23	1	1	0	600	600	0
5/22/2024 13:16	64101	REFR_T1	0	0	0	0	0	0	0.29	0.35	0	0	0	0	0	0
5/22/2024 13:16	44301	BEAV_T2	5	6	1	0.94	0.87	-0.07	0.89	0.86	2	2	0	1500	1500	0
5/22/2024 13:16	63601	LETO_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/22/2024 13:16	16302	ALPA_T2	1	2	1	0.2	0.3	0.1	0.11	0.3	0	0	0	0	0	0
5/22/2024 13:17	16302	ALPA_T2	1	2	1	0.2	0.3	0.1	0.11	0.3	0	0	0	0	0	0
5/22/2024 13:18	63602	LETO_T1	0	2	2	0	0.45	0.45	-0.18	-0.23	1	1	0	600	600	0
5/22/2024 13:18	63601	LETO_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/22/2024 13:19	44301	BEAV_T2	5	6	1	0.94	0.87	-0.07	0.89	0.86	2	2	0	1500	1500	0
5/22/2024 13:22	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
5/22/2024 13:22	63803	HEMP_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/22/2024 13:22	52101	MEIS_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/22/2024 13:22	63804	HEMP_T1	1	1	0	7	6.7	-0.3	-0.02	0.28	0	0	0	0	0	0
5/22/2024 13:22	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/22/2024 13:22	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/22/2024 13:26	67801	WLAN_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
5/22/2024 13:27	67605	WARW_T1	1	1	0	0.9	1	0.1	-1.36	-1.83	0	0	0	0	0	0
5/22/2024 13:28	55105	WERT_T1	0	0	0	0	0	0	0.34	0.41	1	1	0	900	900	0
5/22/2024 13:28	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 13:28	44301	BEAV_T2	5	6	1	0.94	0.87	-0.07	0.86	0.98	2	2	0	1500	1500	0
5/22/2024 13:29	59101	WALK_T2	0	0	0	0	0	0	0.09	0.57	0	0	0	0	0	0
5/22/2024 13:29	56802	BENV_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
5/22/2024 13:29	44301	BEAV_T2	5	6	1	0.94	0.87	-0.07	1.72	1.96	4	4	0	3000	3000	0
5/22/2024 13:30	44301	BEAV_T2	5	10	5	1.12	0.5	-0.62	0.86	0.98	2	2	0	1500	1500	0
5/22/2024 13:31	40101	HUNT_T2	7	21	14	0.21	0.23	0.02	-0.24	-0.18	0	0	0	0	0	0
5/22/2024 13:31	44301	BEAV_T2	5	10	5	1.12	0.5	-0.62	0.86	0.98	2	2	0	1500	1500	0
5/22/2024 13:33	17802	GILB_T1	2	3	1	0.9	0.53	-0.37	0.3	0.31	0	0	0	0	0	0
5/22/2024 13:37	48302	ORWI_T2	0	0	0	0	0	0	-0.16	-0.14	0	0	0	0	0	0
5/22/2024 13:38	58302	NOTT_T1	0	0	0	0	0	0	-1.02	-1.16	1	2	1	1200	2100	900
5/22/2024 13:42	64101	REFR_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
5/22/2024 13:42	40302	TAMA_T3	0	0	0	0	0	0	-1.09	-1.08	1	1	0	1200	1200	0
5/22/2024 13:42	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 13:43	67701	WERN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/22/2024 13:43	67702	WERN_T2	1	1	0	0.1	0.3	0.2	0.24	0.25	0	0	0	0	0	0
5/22/2024 13:43	67703	WERN_T2	1	1	0	0.1	0.2	0.1	-0.16	-0.09	1	1	0	900	900	0
5/22/2024 13:45	10707	CATA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/22/2024 13:45	10701	CATA_T2	0	1	1	0	0.1	0.1	-1.44	-1.38	1	1	0	1200	1200	0
5/22/2024 13:46	64204	KINZ_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
5/22/2024 13:46	61701	ELIZ_T1	2	2	0	1.6	1.6	0	0	0	0	0	0	0	0	0
5/22/2024 13:46	64201	KINZ_T1	2	3	1	0.5	0	-0.5	0.13	0.15	4	4	0	2100	2100	0
5/22/2024 13:46	61703	ELIZ_T1	0	0	0	0	0	0	-6.45	-6.42	6	6	0	6300	6300	0
5/22/2024 13:46	64203	KINZ_T1	1	2	1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
5/22/2024 13:46	64202	KINZ_T1	0	0	0	0	0	0	1.64	1.61	0	0	0	0	0	0
5/22/2024 13:47	64203	KINZ_T1	1	2	1	0.7	0.9	0.2	0.34	0.34	3	3	0	2100	2100	0
5/22/2024 13:47	64201	KINZ_T1	2	3	1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/22/2024 13:47	64204	KINZ_T1	1	0	-1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
5/22/2024 13:48	64203	KINZ_T1	1	2	1	0.7	0.9	0.2	0.34	0.34	3	3	0	2100	2100	0
5/22/2024 13:48	52404	GRPA_T2	0	0	0	0	0	0	0.34	0.64	0	0	0	0	0	0
5/22/2024 13:48	64204	KINZ_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
5/22/2024 13:48	61701	ELIZ_T1	2	2	0	1.6	1.6	0	0	0	0	0	0	0	0	0
5/22/2024 13:48	64201	KINZ_T1	2	3	1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/22/2024 13:48	52403	GRPA_T2	4	6	2	1.55	0.68	-0.87	0	0	0	0	0	0	0	0
5/22/2024 13:48	61703	ELIZ_T1	0	0	0	0	0	0	-2.15	-2.14	2	2	0	2100	2100	0
5/22/2024 13:49	64203	KINZ_T1	1	2	1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
5/22/2024 13:49	64204	KINZ_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
5/22/2024 13:49	64201	KINZ_T1	2	3	1	0.5	0	-0.5	0.13	0.15	4	4	0	2100	2100	0
5/22/2024 13:50	53901	HALI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 13:50	61701	ELIZ_T1	2	2	0	1.6	1.6	0	0	0	0	0	0	0	0	0
5/22/2024 13:50	53903	HALI_T2	3	6	3	0.63	0.72	0.09	0	0	0	0	0	0	0	0
5/22/2024 13:50	61703	ELIZ_T1	0	0	0	0	0	0	-2.15	-2.14	2	2	0	2100	2100	0
5/22/2024 13:50	53902	HALI_T2	3	3	0	1.87	2.13	0.26	-0.49	-0.51	0	0	0	0	0	0
5/22/2024 13:51	64203	KINZ_T1	1	2	1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
5/22/2024 13:51	64202	KINZ_T1	0	0	0	0	0	0	1.64	1.61	0	0	0	0	0	0
5/22/2024 13:51	53901	HALI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 13:51	64204	KINZ_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
5/22/2024 13:51	53903	HALI_T2	3	6	3	0.63	0.72	0.09	-0.01	0.04	0	0	0	0	0	0
5/22/2024 13:51	64201	KINZ_T1	2	3	1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/22/2024 13:51	53902	HALI_T2	3	3	0	1.87	2.13	0.26	0	0	0	0	0	0	0	0
5/22/2024 13:52	47401	PENS_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
5/22/2024 13:52	47401	PENS_T1	5	3	-2	0.84	1.4	0.56	0.46	0.42	0	0	0	0	0	0
5/22/2024 13:53	52404	GRPA_T2	0	0	0	0	0	0	0.64	0.52	0	0	0	0	0	0
5/22/2024 13:53	52403	GRPA_T2	4	6	2	1.55	0.68	-0.87	0	0	0	0	0	0	0	0
5/22/2024 13:54	13503	MCMI_T2	144	2	-142	0.29	0.6	0.31	0.13	0.15	0	0	0	0	0	0
5/22/2024 13:54	47401	PENS_T1	5	3	-2	0.84	1.4	0.56	0.42	0.43	0	0	0	0	0	0
5/22/2024 13:54	47403	PENS_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
5/22/2024 13:55	47401	PENS_T1	5	3	-2	0.84	1.4	0.56	1.27	1.28	0	0	0	0	0	0
5/22/2024 13:55	47403	PENS_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
5/22/2024 13:56	41903	REED_T1	0	0	0	0	0	0	1.08	1.16	2	2	0	2400	2400	0
5/22/2024 13:56	47403	PENS_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
5/22/2024 13:56	47401	PENS_T1	5	3	-2	0.84	1.4	0.56	0.42	0.43	0	0	0	0	0	0
5/22/2024 13:56	41902	REED_T1	6	9	3	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
5/22/2024 13:58	64101	REFR_T1	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
5/22/2024 13:58	57104	SPHI_T2	1	1	0	0.2	0.7	0.5	-0.87	-0.85	1	1	0	900	900	0
5/22/2024 13:58	57101	SPHI_T2	6	6	0	0.58	0.93	0.35	0	0	0	0	0	0	0	0
5/22/2024 13:58	57106	SPHI_T2	3	3	0	0.47	0.7	0.23	0	0	0	0	0	0	0	0
5/22/2024 14:01	43402	BENT_T1	3	1	-2	0.47	0.4	-0.07	-0.88	-1.03	2	2	0	1800	1800	0
5/22/2024 14:02	67805	WLAN_T1	0	0	0	0	0	0	-0.39	-0.36	0	0	0	0	0	0
5/22/2024 14:04	64204	KINZ_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/22/2024 14:04	43402	BENT_T1	3	1	-2	0.47	0.4	-0.07	-0.44	-0.52	1	1	0	900	900	0
5/22/2024 14:04	64203	KINZ_T1	1	2	1	0.9	0.8	-0.1	0.34	0.45	3	3	0	2100	2100	0
5/22/2024 14:04	17802	GILB_T1	3	2	-1	0.53	0.7	0.17	0.35	0.35	0	0	0	0	0	0
5/22/2024 14:04	62101	ELAN_T1	0	0	0	0	0	0	0.82	0.83	2	2	0	1800	1800	0
5/22/2024 14:04	64201	KINZ_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/22/2024 14:10	29401	BELT_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
5/22/2024 14:10	29402	BELT_T1	5	6	1	2.06	1.83	-0.23	0	0	0	0	0	0	0	0
5/22/2024 14:11	67204	TEHI_T2	1	0	-1	0.1	0	-0.1	-0.13	-0.13	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/22/2024 14:12	55101	WERT_T1	3	8	5	0.5	0	-0.5	-1.71	-1.83	4	4	0	3300	3300	0
5/22/2024 14:12	55103	WERT_T1	1	1	0	4.9	4.5	-0.4	0	0	0	0	0	0	0	0
5/22/2024 14:12	67204	TEHI_T2	1	0	-1	0.1	0	-0.1	-0.13	-0.13	0	0	0	0	0	0
5/22/2024 14:13	55101	WERT_T1	3	8	5	0.5	0	-0.5	-1.71	-1.83	4	4	0	3300	3300	0
5/22/2024 14:13	55103	WERT_T1	1	1	0	4.9	4.5	-0.4	0	0	0	0	0	0	0	0
5/22/2024 14:15	43301	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/22/2024 14:15	64101	REFR_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
5/22/2024 14:16	16102	BING_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/22/2024 14:16	16101	BING_T2	2	4	2	5.05	4.85	-0.2	1.01	0.99	0	0	0	0	0	0
5/22/2024 14:16	16103	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/22/2024 14:17	24103	EHAZ_T1	0	0	0	0	0	0	0.11	-0.04	0	0	0	0	0	0
5/22/2024 14:17	24101	EHAZ_T1	21	20	-1	1	0.47	-0.53	0	0	0	0	0	0	0	0
5/22/2024 14:17	24105	EHAZ_T1	4	4	0	6.68	6.55	-0.13	0	0	0	0	0	0	0	0
5/22/2024 14:17	24104	EHAZ_T1	5	4	-1	0.14	0.23	0.09	0	0	0	0	0	0	0	0
5/22/2024 14:17	24102	EHAZ_T1	3	2	-1	1.33	0.95	-0.38	0	0	0	0	0	0	0	0
5/22/2024 14:18	41204	KENM_T2	0	0	0	0	0	0	0.82	0.83	0	0	0	0	0	0
5/22/2024 14:19	40101	HUNT_T2	63	55	-8	0.45	0.37	-0.08	-0.2	-0.17	0	0	0	0	0	0
5/22/2024 14:20	17401	FOHI_T1	0	1	1	0	0.2	0.2	-1.59	-1.59	0	0	0	0	0	0
5/22/2024 14:20	45502	DERR_T2	2	9	7	0.2	0.63	0.43	0.15	0.18	1	1	0	300	300	0
5/22/2024 14:20	45501	DERR_T2	2	3	1	1.1	0.95	-0.15	0	0	0	0	0	0	0	0
5/22/2024 14:20	39601	LNFD_T1	1	1	0	2.1	1.1	-1	0	0	1	1	0	900	900	0
5/22/2024 14:22	12803	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 14:22	12802	MICK_T1	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
5/22/2024 14:22	12807	MICK_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/22/2024 14:24	66501	SMAN_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
5/22/2024 14:24	66504	SMAN_T2	0	0	0	0	0	0	-0.63	-0.57	1	1	0	1200	1200	0
5/22/2024 14:24	66505	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
5/22/2024 14:24	66502	SMAN_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/22/2024 14:25	47401	PENS_T1	3	4	1	1.27	1.03	-0.24	0.45	0.41	0	0	0	0	0	0
5/22/2024 14:25	47403	PENS_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
5/22/2024 14:28	61102	BERK_T5	0	0	0	0	0	0	-0.34	-0.25	2	2	0	1200	1200	0
5/22/2024 14:30	58006	WCAR_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
5/22/2024 14:30	61703	ELIZ_T1	0	0	0	0	0	0	-2.13	-2.11	2	2	0	2100	2100	0
5/22/2024 14:30	61701	ELIZ_T1	2	1	-1	1.4	1.6	0.2	0	0	0	0	0	0	0	0
5/22/2024 14:30	24702	FLND_T2	12	10	-2	1.26	1.13	-0.13	0.62	0.64	1	1	0	1200	1200	0
5/22/2024 14:31	58001	WCAR_T1	5	6	1	0.58	0.47	-0.11	0	0	0	0	0	0	0	0
5/22/2024 14:31	58003	WCAR_T1	6	6	0	0.27	0.4	0.13	0.75	0.69	1	1	0	600	600	0
5/22/2024 14:31	44502	HAMI_T2	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
5/22/2024 14:31	61102	BERK_T5	0	0	0	0	0	0	-0.34	-0.25	2	2	0	1200	1200	0
5/22/2024 14:31	44505	HAMI_T2	0	0	0	0	0	0	0.16	0.21	0	0	0	0	0	0
5/22/2024 14:34	44505	HAMI_T2	0	0	0	0	0	0	0.16	0.21	0	0	0	0	0	0
5/22/2024 14:34	44502	HAMI_T2	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
5/22/2024 14:35	45501	DERR_T2	3	4	1	0.83	0.95	0.12	0.95	0.88	2	2	0	1800	1800	0
5/22/2024 14:35	45502	DERR_T2	8	6	-2	0.43	0.83	0.4	0	0	0	0	0	0	0	0
5/22/2024 14:36	47403	PENS_T1	1	1	0	2.1	1.8	-0.3	0	0	0	0	0	0	0	0
5/22/2024 14:36	47401	PENS_T1	4	3	-1	1	1.07	0.07	0.45	0.41	0	0	0	0	0	0
5/22/2024 14:37	47401	PENS_T1	4	3	-1	1	1.07	0.07	1.8	1.65	0	0	0	0	0	0
5/22/2024 14:37	47403	PENS_T1	1	1	0	2.1	1.8	-0.3	0	0	0	0	0	0	0	0
5/22/2024 14:38	47403	PENS_T1	1	1	0	2.1	1.8	-0.3	0	0	0	0	0	0	0	0
5/22/2024 14:38	47401	PENS_T1	4	3	-1	1	1.07	0.07	0.45	0.41	0	0	0	0	0	0
5/22/2024 14:40	58402	MORO_T1	0	0	0	0	0	0	-0.65	-0.67	3	3	0	2400	2400	0
5/22/2024 14:41	13503	MCMI_T2	2	6	4	0.4	0.52	0.12	0.17	-0.74	0	0	0	0	0	0
5/22/2024 14:43	25603	ARRO_T1	0	1	1	0	0.6	0.6	-0.1	-0.11	0	0	0	0	0	0
5/22/2024 14:45	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 14:45	58006	WCAR_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
5/22/2024 14:45	21206	ECAR_T2	1	2	1	7	7	0	0.81	0.75	0	0	0	0	0	0
5/22/2024 14:47	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 14:47	47401	PENS_T1	3	1	-2	1.07	0.1	-0.97	0.41	0.36	0	0	0	0	0	0
5/22/2024 14:47	47403	PENS_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
5/22/2024 14:51	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 14:51	21206	ECAR_T2	1	2	1	7	7	0	0.81	0.75	0	0	0	0	0	0
5/22/2024 14:56	44601	SALE_T2	0	0	0	0	0	0	0.9	0.38	2	2	0	900	900	0
5/22/2024 14:56	66703	STRA_T1	0	0	0	0	0	0	-0.37	-0.42	0	0	0	0	0	0
5/22/2024 15:02	45801	HEGI_T1	0	0	0	0	0	0	-0.18	-0.15	1	1	0	900	900	0
5/22/2024 15:03	64204	KINZ_T1	1	1	0	1.2	0.4	-0.8	0	0	0	0	0	0	0	0
5/22/2024 15:03	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 15:03	64201	KINZ_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/22/2024 15:03	64203	KINZ_T1	2	2	0	0.95	1	0.05	0.59	0.57	3	3	0	2100	2100	0
5/22/2024 15:04	64203	KINZ_T1	2	2	0	0.95	1	0.05	0.59	0.57	3	3	0	2100	2100	0
5/22/2024 15:04	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 15:04	64201	KINZ_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/22/2024 15:04	64204	KINZ_T1	1	1	0	1.2	0.4	-0.8	0	0	0	0	0	0	0	0
5/22/2024 15:06	60501	NMAN_T2	3	3	0	3.8	3.8	0	0	0	0	0	0	0	0	0
5/22/2024 15:06	60502	NMAN_T2	0	0	0	0	0	0	0.73	0.59	0	0	0	0	0	0
5/22/2024 15:12	64101	REFR_T1	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
5/22/2024 15:13	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 15:13	57401	SPAN_T1	3	4	1	0.47	0	-0.47	-0.34	-0.36	1	1	0	600	600	0
5/22/2024 15:14	61102	BERK_T5	0	0	0	0	0	0	-0.24	-0.22	2	2	0	1200	1200	0
5/22/2024 15:15	67204	TEHI_T2	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
5/22/2024 15:16	61102	BERK_T5	0	0	0	0	0	0	-0.24	-0.22	2	2	0	1200	1200	0
5/22/2024 15:19	11405	FARM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 15:19	45502	DERR_T2	23	47	24	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
5/22/2024 15:19	11404	FARM_T1	0	0	0	0	0	0	0.2	-1.07	1	1	0	1200	1200	0
5/22/2024 15:19	45501	DERR_T2	3	5	2	0.93	1.3	0.37	0.97	0.92	2	2	0	1800	1800	0
5/22/2024 15:23	64204	KINZ_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
5/22/2024 15:23	64203	KINZ_T1	2	1	-1	1.1	1	-0.1	0.43	0.4	3	3	0	2100	2100	0
5/22/2024 15:23	64202	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/22/2024 15:23	64201	KINZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/22/2024 15:24	64203	KINZ_T1	2	1	-1	1.1	1	-0.1	0.43	0.4	3	3	0	2100	2100	0
5/22/2024 15:24	64202	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/22/2024 15:24	64204	KINZ_T1	1	0	-1	0.3	0.9	0.6	0	0	0	0	0	0	0	0
5/22/2024 15:24	64201	KINZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/22/2024 15:26	61102	BERK_T5	0	0	0	0	0	0	-0.22	-0.2	2	2	0	1200	1200	0
5/22/2024 15:30	61102	BERK_T5	0	0	0	0	0	0	-0.22	-0.2	2	2	0	1200	1200	0
5/22/2024 15:32	56801	BENV_T1	5	8	3	0.5	0.58	0.08	-0.47	-0.47	2	2	0	1200	1200	0
5/22/2024 15:32	56803	BENV_T1	12	10	-2	1.18	1.56	0.38	0	0	0	0	0	0	0	0
5/22/2024 15:37	61102	BERK_T5	0	0	0	0	0	0	-0.22	-0.2	2	2	0	1200	1200	0
5/22/2024 15:42	59101	WALK_T2	1	0	-1	0.2	0	-0.2	0.49	0.28	0	0	0	0	0	0
5/22/2024 15:46	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
5/22/2024 15:46	64203	KINZ_T1	1	1	0	1	0.2	-0.8	0.4	0.28	3	3	0	2100	2100	0
5/22/2024 15:47	64203	KINZ_T1	1	1	0	1	0.2	-0.8	0.4	0.28	3	3	0	2100	2100	0
5/22/2024 15:47	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
5/22/2024 15:48	44301	BEAV_T2	2	4	2	0.25	0.33	0.08	-0.04	0.34	1	1	0	600	600	0
5/22/2024 15:49	64402	LAND_T2	0	0	0	0	0	0	0.09	-0.02	1	1	0	600	600	0
5/22/2024 15:59	45501	DERR_T2	1	1	0	1.3	0.3	-1	0.84	0.72	2	2	0	1800	1800	0
5/22/2024 15:59	45502	DERR_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/22/2024 16:00	46504	LOHA_T1	2	2	0	0.95	0.35	-0.6	0	0	0	0	0	0	0	0
5/22/2024 16:00	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 16:00	46502	LOHA_T1	1	1	0	0.5	0.4	-0.1	-1.85	-1.8	2	2	0	2400	2400	0
5/22/2024 16:01	44301	BEAV_T2	3	1	-2	0.33	0.5	0.17	0.34	0.52	1	1	0	600	600	0
5/22/2024 16:04	44502	HAMI_T2	1	1	0	1.7	1.6	-0.1	-0.47	-0.46	0	0	0	0	0	0
5/22/2024 16:04	45501	DERR_T2	1	1	0	1	0	-1	0.84	0.72	2	2	0	1800	1800	0
5/22/2024 16:05	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 16:05	44301	BEAV_T2	3	1	-2	0.33	0.5	0.17	0.34	0.52	1	1	0	600	600	0
5/22/2024 16:05	44601	SALE_T2	0	0	0	0	0	0	0.27	0.2	1	1	0	600	600	0
5/22/2024 16:05	29402	BELT_T1	1	1	0	8	8	0	0	0	0	0	0	0	0	0
5/22/2024 16:06	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
5/22/2024 16:10	44301	BEAV_T2	3	1	-2	0.33	0.5	0.17	0.52	0.46	1	1	0	600	600	0
5/22/2024 16:10	45702	LIND_T2	4	3	-1	0.73	0.97	0.24	-1.39	-1.36	0	0	0	0	0	0
5/22/2024 16:15	24702	FLND_T2	0	0	0	0	0	0	0.23	0.03	1	1	0	1200	1200	0
5/22/2024 16:19	42902	MIDD_T2	1	8	7	0.9	0.11	-0.79	-0.95	-0.32	1	0	-1	600	0	-600
5/22/2024 16:19	46505	LOHA_T1	0	0	0	0	0	0	-0.17	-0.18	1	1	0	600	600	0
5/22/2024 16:19	46501	LOHA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/22/2024 16:19	46504	LOHA_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
5/22/2024 16:19	46502	LOHA_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/22/2024 16:19	29402	BELT_T1	1	1	0	8	7.6	-0.4	0	0	0	0	0	0	0	0
5/22/2024 16:19	42903	MIDD_T2	2	4	2	0.7	1.38	0.68	0	0	0	0	0	0	0	0
5/22/2024 16:19	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 16:21	42902	MIDD_T2	1	8	7	0.9	0.11	-0.79	-2.85	-0.96	3	0	-3	1800	0	-1800
5/22/2024 16:21	42903	MIDD_T2	2	4	2	0.7	1.38	0.68	0	0	0	0	0	0	0	0
5/22/2024 16:23	25503	MADI_T1	0	0	0	0	0	0	-0.59	-0.55	0	0	0	0	0	0
5/22/2024 16:23	20403	ASHF_T2	3	0	-3	0.2	0	-0.2	1.15	1.22	0	0	0	0	0	0
5/22/2024 16:23	25501	MADI_T1	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
5/22/2024 16:23	20401	ASHF_T2	1	4	3	1	0.7	-0.3	0	0	0	0	0	0	0	0
5/22/2024 16:24	45802	HEGI_T2	14	4	-10	0.25	0.3	0.05	-0.11	0	2	2	0	1200	1200	0
5/22/2024 16:24	23202	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
5/22/2024 16:25	64203	KINZ_T1	1	1	0	0.3	0	-0.3	0.3	-0.03	3	3	0	2100	2100	0
5/22/2024 16:25	64204	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/22/2024 16:26	46802	HEPB_T1	0	0	0	0	0	0	0.05	0.07	0	0	0	0	0	0
5/22/2024 16:27	45802	HEGI_T2	14	4	-10	0.25	0.3	0.05	-0.11	0	2	2	0	1200	1200	0
5/22/2024 16:28	13503	MCMI_T2	8	1	-7	0.25	0.6	0.35	-0.69	-0.7	0	0	0	0	0	0
5/22/2024 16:31	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 16:31	20403	ASHF_T2	0	0	0	0	0	0	1.15	1.22	0	0	0	0	0	0
5/22/2024 16:31	20401	ASHF_T2	4	1	-3	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
5/22/2024 16:35	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
5/22/2024 16:36	45501	DERR_T2	0	0	0	0	0	0	0.62	0.51	2	2	0	1800	1800	0
5/22/2024 16:36	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 16:39	26603	BROO_T1	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
5/22/2024 16:41	46101	MACI_T2	0	4	4	0	0.1	0.1	0.01	-0.12	1	1	0	1200	1200	0
5/22/2024 16:42	14403	SSLA_T1	0	0	0	0	0	0	1.31	1.33	0	0	0	0	0	0
5/22/2024 16:42	14404	SSLA_T1	1	1	0	3.4	3.3	-0.1	0	0	0	0	0	0	0	0
5/22/2024 16:42	14402	SSLA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/22/2024 16:42	14401	SSLA_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/22/2024 16:48	63304	GREE_T1	0	0	0	0	0	0	-2.04	-1.97	1	1	0	1200	1200	0
5/22/2024 16:51	20603	GRWO_T2	0	0	0	0	0	0	-0.39	-0.38	1	1	0	900	900	0
5/22/2024 16:51	46101	MACI_T2	0	4	4	0	0.1	0.1	0.01	-0.12	1	1	0	1200	1200	0
5/22/2024 16:51	20601	GRWO_T2	6	3	-3	0.32	0.2	-0.12	0	0	0	0	0	0	0	0
5/22/2024 16:53	46102	MACI_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
5/22/2024 16:56	67605	WARW_T1	0	0	0	0	0	0	-0.92	-0.83	0	0	0	0	0	0
5/22/2024 16:57	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 17:04	29402	BELT_T1	1	1	0	7.6	8.2	0.6	0	0	0	0	0	0	0	0
5/22/2024 17:04	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 17:08	16902	MECK_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/22/2024 17:08	46101	MACI_T2	4	0	-4	0.1	0	-0.1	-0.52	0.71	1	1	0	1200	1200	0
5/22/2024 17:09	16902	MECK_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
5/22/2024 17:12	54201	PENN_T1	3	4	1	0.67	0.78	0.11	0	0	0	0	0	0	0	0
5/22/2024 17:12	54203	PENN_T1	5	5	0	0.52	0.94	0.42	0.27	0.22	1	1	0	600	600	0
5/22/2024 17:14	20402	ASHF_T2	1	8	7	0.7	0.15	-0.55	0	0	0	0	0	0	0	0
5/22/2024 17:14	20403	ASHF_T2	0	0	0	0	0	0	0.95	0.98	0	0	0	0	0	0
5/22/2024 17:14	20401	ASHF_T2	1	2	1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/22/2024 17:17	64201	KINZ_T1	0	0	0	0	0	0	-0.23	-0.33	4	4	0	2100	2100	0
5/22/2024 17:17	64203	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/22/2024 17:17	64204	KINZ_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
5/22/2024 17:27	56801	BENV_T1	4	9	5	0.25	0.53	0.28	0	0	0	0	0	0	0	0
5/22/2024 17:27	56803	BENV_T1	17	8	-9	0.81	0.59	-0.22	0.06	0.1	1	1	0	600	600	0
5/22/2024 17:28	61102	BERK_T5	0	0	0	0	0	0	-0.33	-0.24	2	2	0	1200	1200	0
5/22/2024 17:30	64203	KINZ_T1	0	0	0	0	0	0	0.31	0.24	1	1	0	600	600	0
5/22/2024 17:31	57101	SPHI_T2	6	6	0	0.53	0.78	0.25	0	0	0	0	0	0	0	0
5/22/2024 17:31	57106	SPHI_T2	3	3	0	0.93	1.2	0.27	0	0	0	0	0	0	0	0
5/22/2024 17:31	57103	SPHI_T2	0	0	0	0	0	0	-0.26	-0.2	1	1	0	600	600	0
5/22/2024 17:31	57104	SPHI_T2	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
5/22/2024 17:32	58006	WCAR_T2	0	0	0	0	0	0	-0.47	-0.44	0	0	0	0	0	0
5/22/2024 17:32	60501	NMAN_T2	3	3	0	3.07	3.9	0.83	0	0	0	0	0	0	0	0
5/22/2024 17:32	60502	NMAN_T2	1	0	-1	0.5	0	-0.5	0.73	0.71	0	0	0	0	0	0
5/22/2024 17:35	50505	MECH_T1	0	0	0	0	0	0	-1.64	-1.62	0	0	0	0	0	0
5/22/2024 17:35	50502	MECH_T1	1	1	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
5/22/2024 17:41	14404	SSLA_T1	1	1	0	2.4	2.8	0.4	0	0	0	0	0	0	0	0
5/22/2024 17:41	54201	PENN_T1	4	7	3	0.78	0.73	-0.05	-0.25	-0.26	0	0	0	0	0	0
5/22/2024 17:41	14403	SSLA_T1	0	0	0	0	0	0	1.34	1.34	0	0	0	0	0	0
5/22/2024 17:41	54203	PENN_T1	5	18	13	0.94	0.46	-0.48	0	0	0	0	0	0	0	0
5/22/2024 17:44	24801	VALM_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
5/22/2024 17:44	10602	BLGL_T2	4	5	1	1.78	7.4	5.62	1.16	1	0	0	0	0	0	0
5/22/2024 17:45	51505	SWAT_T2	0	0	0	0	0	0	0.81	0.83	0	0	0	0	0	0
5/22/2024 17:46	10705	CATA_T2	0	0	0	0	0	0	-1.37	-1.39	1	1	0	900	900	0
5/22/2024 17:46	67801	WLAN_T1	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
5/22/2024 17:46	10702	CATA_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/22/2024 17:47	11102	EGYP_T1	3	3	0	1.13	0.85	-0.28	0	0	0	0	0	0	0	0
5/22/2024 17:47	11103	EGYP_T1	0	0	0	0	0	0	0.83	0.85	0	0	0	0	0	0
5/22/2024 17:47	10805	CHHI_T2	4	27	23	2.38	1.34	-1.04	-0.92	-0.37	1	1	0	600	600	0
5/22/2024 17:47	64203	KINZ_T1	0	0	0	0	0	0	0.24	0.14	1	1	0	600	600	0
5/22/2024 17:47	11104	EGYP_T1	6	5	-1	1	1.06	0.06	0	0	0	0	0	0	0	0
5/22/2024 17:47	58006	WCAR_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
5/22/2024 17:47	11101	EGYP_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
5/22/2024 17:48	61703	ELIZ_T1	1	0	-1	0.7	0	-0.7	-2.4	-2.43	2	2	0	2100	2100	0
5/22/2024 17:48	64203	KINZ_T1	0	0	0	0	0	0	0.24	0.14	1	1	0	600	600	0
5/22/2024 17:48	61701	ELIZ_T1	1	1	0	1.9	2.4	0.5	0	0	0	0	0	0	0	0
5/22/2024 17:49	63305	GREE_T1	3	2	-1	0.17	0.15	-0.02	-1.69	-1.57	1	1	0	900	900	0
5/22/2024 17:49	11504	FREE_T1	0	0	0	0	0	0	-1.44	-1.66	2	2	0	2100	2100	0
5/22/2024 17:50	11104	EGYP_T1	6	5	-1	1	1.06	0.06	0	0	0	0	0	0	0	0
5/22/2024 17:50	11103	EGYP_T1	0	0	0	0	0	0	0.83	0.85	0	0	0	0	0	0
5/22/2024 17:50	67204	TEHI_T2	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
5/22/2024 17:50	11102	EGYP_T1	3	3	0	1.13	0.85	-0.28	0	0	0	0	0	0	0	0
5/22/2024 17:50	11101	EGYP_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
5/22/2024 17:53	63305	GREE_T1	3	2	-1	0.17	0.15	-0.02	-1.57	-1.73	1	1	0	900	900	0
5/22/2024 17:54	63305	GREE_T1	3	2	-1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
5/22/2024 17:54	63304	GREE_T1	0	0	0	0	0	0	-0.82	-0.9	0	0	0	0	0	0
5/22/2024 17:59	67103	SPRI_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
5/22/2024 18:00	46101	MACI_T2	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
5/22/2024 18:00	40502	CRES_T2	8	7	-1	0.64	0.2	-0.44	-0.25	-0.31	0	0	0	0	0	0
5/22/2024 18:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 18:01	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 18:01	40502	CRES_T2	8	7	-1	0.64	0.2	-0.44	-1	-1.23	0	0	0	0	0	0
5/22/2024 18:02	40502	CRES_T2	8	7	-1	0.64	0.2	-0.44	-0.25	-0.31	0	0	0	0	0	0
5/22/2024 18:02	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 18:02	23403	HONE_T1	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
5/22/2024 18:03	40502	CRES_T2	8	7	-1	0.64	0.2	-0.44	-0.25	-0.31	0	0	0	0	0	0
5/22/2024 18:03	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 18:04	67702	WERN_T2	0	0	0	0	0	0	0.29	0.25	0	0	0	0	0	0
5/22/2024 18:04	40502	CRES_T2	8	7	-1	0.64	0.2	-0.44	-1	-1.23	0	0	0	0	0	0
5/22/2024 18:04	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 18:05	67103	SPRI_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
5/22/2024 18:06	61102	BERK_T5	0	0	0	0	0	0	-0.33	0.09	2	2	0	1200	1200	0
5/22/2024 18:07	64203	KINZ_T1	0	0	0	0	0	0	0.14	0.18	1	1	0	600	600	0
5/22/2024 18:07	11804	FRAN_T1	47	36	-11	0.69	0.58	-0.11	0.86	0.79	0	0	0	0	0	0
5/22/2024 18:08	62102	ELAN_T1	0	0	0	0	0	0	0.76	0.83	0	0	0	0	0	0
5/22/2024 18:08	64203	KINZ_T1	0	0	0	0	0	0	0.18	0.28	1	1	0	600	600	0
5/22/2024 18:11	41901	REED_T1	3	6	3	0.13	0.33	0.2	0	0	0	0	0	0	0	0
5/22/2024 18:11	41902	REED_T1	54	37	-17	0.6	0.74	0.14	0.61	0.55	1	1	0	900	900	0
5/22/2024 18:13	58006	WCAR_T2	0	0	0	0	0	0	-0.42	-0.45	0	0	0	0	0	0
5/22/2024 18:14	41901	REED_T1	3	6	3	0.13	0.33	0.2	0	0	0	0	0	0	0	0
5/22/2024 18:14	41902	REED_T1	54	37	-17	0.6	0.74	0.14	0.61	0.55	1	1	0	900	900	0
5/22/2024 18:15	13903	SEID_T1	6	9	3	0.72	0.68	-0.04	0	0	0	0	0	0	0	0
5/22/2024 18:15	13904	SEID_T1	6	19	13	0.33	0.35	0.02	0.58	0.59	0	0	0	0	0	0
5/22/2024 18:17	56802	BENV_T2	3	3	0	0.6	1	0.4	-0.01	-0.02	1	1	0	600	600	0
5/22/2024 18:17	24105	EHAZ_T1	4	4	0	6.5	6.48	-0.02	0	0	0	0	0	0	0	0
5/22/2024 18:17	24104	EHAZ_T1	32	33	1	0.15	0.2	0.05	-2.07	-2.07	1	1	0	1200	1200	0
5/22/2024 18:17	24101	EHAZ_T1	16	0	-16	0.39	0	-0.39	0	0	0	0	0	0	0	0
5/22/2024 18:17	24102	EHAZ_T1	6	9	3	0.9	1.63	0.73	0	0	0	0	0	0	0	0
5/22/2024 18:22	64204	KINZ_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
5/22/2024 18:22	64203	KINZ_T1	0	0	0	0	0	0	0.18	0.28	1	1	0	600	600	0
5/22/2024 18:22	64202	KINZ_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
5/22/2024 18:25	12502	MITR_T2	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
5/22/2024 18:25	12505	MITR_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
5/22/2024 18:27	25603	ARRO_T1	17	16	-1	0.14	0.12	-0.02	0	0	0	0	0	0	0	0
5/22/2024 18:27	25601	ARRO_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
5/22/2024 18:28	67702	WERN_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
5/22/2024 18:30	25603	ARRO_T1	5	17	12	0.14	0.12	-0.02	-0.1	-0.09	0	0	0	0	0	0
5/22/2024 18:31	51604	DUKE_T2	0	0	0	0	0	0	-0.8	-0.82	1	1	0	900	900	0
5/22/2024 18:32	51604	DUKE_T2	0	0	0	0	0	0	-0.8	-0.82	1	1	0	900	900	0
5/22/2024 18:32	25603	ARRO_T1	5	17	12	0.14	0.12	-0.02	-0.1	-0.09	0	0	0	0	0	0
5/22/2024 18:37	53501	EVIL_T2	1	1	0	0.1	0.1	0	-1.78	-1.83	3	3	0	2100	2100	0
5/22/2024 18:39	64203	KINZ_T1	0	0	0	0	0	0	0.26	0.15	1	1	0	600	600	0
5/22/2024 18:39	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/22/2024 18:39	64202	KINZ_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
5/22/2024 18:39	64204	KINZ_T1	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
5/22/2024 18:42	15103	UPHA_T2	0	0	0	0	0	0	1.07	1.07	0	0	0	0	0	0
5/22/2024 18:43	52501	PROG_T1	0	0	0	0	0	0	1.1	1.06	1	1	0	300	300	0
5/22/2024 18:49	46506	LOHA_T1	1	1	0	1	1	0	-0.46	-0.52	0	0	0	0	0	0
5/22/2024 18:49	46502	LOHA_T1	41	53	12	0.27	0.28	0.01	0	0	0	0	0	0	0	0
5/22/2024 18:49	46504	LOHA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/22/2024 18:51	46502	LOHA_T1	41	53	12	0.27	0.28	0.01	0	0	0	0	0	0	0	0
5/22/2024 18:51	46504	LOHA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/22/2024 18:51	46506	LOHA_T1	1	1	0	1	1	0	-0.23	-0.26	0	0	0	0	0	0
5/22/2024 18:56	58102	NEKI_T1	1	1	0	1.5	1.8	0.3	-1.2	-1.27	1	1	0	1200	1200	0
5/22/2024 18:58	60802	BUCK_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
5/22/2024 18:59	24802	VALM_T1	0	0	0	0	0	0	3.63	3.59	0	0	0	0	0	0
5/22/2024 19:01	51306	WIND_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
5/22/2024 19:11	46602	LACR_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
5/22/2024 19:18	16301	ALPA_T1	1	1	0	0.1	0.4	0.3	0.68	0.6	0	0	0	0	0	0
5/22/2024 19:30	12606	MACA_T1	15	26	11	1.31	0.1	-1.21	0	0	0	0	0	0	0	0
5/22/2024 19:30	12601	MACA_T1	0	2	2	0	0	0	1.42	1.37	0	0	0	0	0	0
5/22/2024 19:36	50201	HARR_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/22/2024 19:36	50105	HARR_T3	6	6	0	6.23	5.97	-0.26	0	0	0	0	0	0	0	0
5/22/2024 19:36	50103	HARR_T3	0	0	0	0	0	0	-1.3	-1.23	1	1	0	1200	1200	0
5/22/2024 19:49	60902	DONG_T2	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
5/22/2024 19:54	60902	DONG_T2	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
5/22/2024 19:58	46602	LACR_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
5/22/2024 20:06	53501	EVIL_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
5/22/2024 20:06	53502	EVIL_T2	0	0	0	0	0	0	-0.61	0.33	2	1	-1	1500	600	-900
5/22/2024 21:16	46102	MACI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/22/2024 21:26	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/22/2024 21:30	42802	SELI_T1	0	0	0	0	0	0	-1.03	-1.06	0	0	0	0	0	0
5/22/2024 21:31	42802	SELI_T1	0	0	0	0	0	0	-1.03	-1.06	0	0	0	0	0	0
5/22/2024 21:37	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
5/22/2024 21:37	45902	AUBU_T1	0	0	0	0	0	0	-0.89	-0.91	1	1	0	600	600	0
5/22/2024 21:37	15702	TANN_T2	1	1	0	2	1	-1	-0.14	-0.17	0	0	0	0	0	0
5/22/2024 21:39	67503	WEWI_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
5/22/2024 21:40	42201	SHEN_T2	0	1	1	0	0	0	0.03	0	1	1	0	600	600	0
5/22/2024 21:41	21206	ECAR_T2	1	2	1	7.2	7.6	0.4	0.3	0.32	0	0	0	0	0	0
5/22/2024 21:41	24801	VALM_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
5/22/2024 21:41	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 21:42	46101	MACI_T2	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
5/22/2024 21:42	50701	SMEC_T1	0	0	0	0	0	0	-0.08	-0.17	1	1	0	1200	1200	0
5/22/2024 21:43	45402	WELL_T2	1	2	1	0.7	0.6	-0.1	-1.43	-1.44	1	1	0	900	900	0
5/22/2024 21:44	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 21:44	42201	SHEN_T2	0	1	1	0	0	0	0.03	0	1	1	0	600	600	0
5/22/2024 21:46	41601	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 21:47	60201	ATGL_T2	0	0	0	0	0	0	0.63	0.58	1	1	0	300	300	0
5/22/2024 21:47	25603	ARRO_T1	3	19	16	0.13	0.13	0	-0.12	-0.13	0	0	0	0	0	0
5/22/2024 21:47	41601	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 21:49	40502	CRES_T2	3	11	8	0.13	0.22	0.09	-0.5	-0.54	0	0	0	0	0	0
5/22/2024 21:49	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 21:49	20601	GRWO_T2	0	12	12	0	0.38	0.38	0	0	0	0	0	0	0	0
5/22/2024 21:49	20603	GRWO_T2	0	0	0	0	0	0	0	0	2	2	0	2100	2100	0
5/22/2024 21:50	24104	EHAZ_T1	32	29	-3	0.16	0.18	0.02	-2.16	-2.16	1	1	0	1200	1200	0
5/22/2024 21:50	24105	EHAZ_T1	4	4	0	6.55	6.28	-0.27	0	0	0	0	0	0	0	0
5/22/2024 21:50	24102	EHAZ_T1	7	1	-6	1.79	2.9	1.11	0	0	0	0	0	0	0	0
5/22/2024 21:51	24104	EHAZ_T1	32	29	-3	0.16	0.18	0.02	-2.16	-2.16	1	1	0	1200	1200	0
5/22/2024 21:51	24102	EHAZ_T1	7	1	-6	1.79	2.9	1.11	0	0	0	0	0	0	0	0
5/22/2024 21:51	24105	EHAZ_T1	4	4	0	6.55	6.28	-0.27	0	0	0	0	0	0	0	0
5/22/2024 21:52	13904	SEID_T1	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
5/22/2024 21:52	40502	CRES_T2	3	11	8	0.13	0.22	0.09	-0.5	-0.54	0	0	0	0	0	0
5/22/2024 21:52	13903	SEID_T1	4	1	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
5/22/2024 21:52	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 21:53	43201	MVIL_T2	0	1	1	0	0	0	-0.29	-0.3	0	0	0	0	0	0
5/22/2024 21:53	43202	MVIL_T2	5	5	0	0.58	0.1	-0.48	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/22/2024 21:55	40502	CRES_T2	3	11	8	0.13	0.22	0.09	-1.08	-1.21	0	0	0	0	0	0
5/22/2024 21:55	40302	TAMA_T3	0	0	0	0	0	0	-1.04	-1.04	1	1	0	1200	1200	0
5/22/2024 21:55	24702	FLND_T2	0	0	0	0	0	0	0.15	1.26	1	0	-1	1200	0	-1200
5/22/2024 21:55	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 21:55	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 21:56	24105	EHAZ_T1	4	4	0	6.55	6.28	-0.27	0	0	0	0	0	0	0	0
5/22/2024 21:56	24102	EHAZ_T1	7	1	-6	1.79	2.9	1.11	0	0	0	0	0	0	0	0
5/22/2024 21:56	24104	EHAZ_T1	32	29	-3	0.16	0.18	0.02	-2.16	-0.83	1	1	0	1200	1200	0
5/22/2024 21:57	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 21:57	42601	TUSC_T1	0	1	1	0	0	0	-0.22	-0.31	1	2	1	600	1800	1200
5/22/2024 21:57	40502	CRES_T2	3	11	8	0.13	0.22	0.09	-0.54	-0.61	0	0	0	0	0	0
5/22/2024 21:58	48302	ORWI_T2	2	2	0	0.8	0.95	0.15	-0.43	-0.46	0	0	0	0	0	0
5/22/2024 21:58	26603	BROO_T1	0	0	0	0	0	0	0.48	0.43	0	0	0	0	0	0
5/22/2024 21:59	45901	AUBU_T1	0	0	0	0	0	0	2.11	2.07	0	0	0	0	0	0
5/22/2024 22:01	48302	ORWI_T2	2	2	0	0.95	0.85	-0.1	-0.43	-0.46	0	0	0	0	0	0
5/22/2024 22:01	45902	AUBU_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	600	600	0
5/22/2024 22:01	29401	BELT_T1	9	0	-9	0.11	0	-0.11	0	0	3	3	0	2700	2700	0
5/22/2024 22:01	26603	BROO_T1	0	0	0	0	0	0	0.48	0.43	0	0	0	0	0	0
5/22/2024 22:01	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 22:01	29402	BELT_T1	1	1	0	9.2	5.9	-3.3	0	0	0	0	0	0	0	0
5/22/2024 22:02	10801	CHHI_T1	0	0	0	0	0	0	-1.51	-1.5	3	3	0	2100	2100	0
5/22/2024 22:02	15702	TANN_T2	1	1	0	1	0.5	-0.5	-0.18	-0.16	0	0	0	0	0	0
5/22/2024 22:02	15703	TANN_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
5/22/2024 22:02	29401	BELT_T1	9	0	-9	0.11	0	-0.11	0	0	1	1	0	900	900	0
5/22/2024 22:02	29402	BELT_T1	1	1	0	9.2	5.9	-3.3	0	0	0	0	0	0	0	0
5/22/2024 22:02	27605	PIRI_T2	0	0	0	0	0	0	0.77	0.67	0	0	0	0	0	0
5/22/2024 22:02	45902	AUBU_T1	0	0	0	0	0	0	-1.77	-1.78	2	2	0	1200	1200	0
5/22/2024 22:03	15601	NSTR_T2	2	3	1	0.3	0.9	0.6	0	0	0	0	0	0	0	0
5/22/2024 22:03	15603	NSTR_T2	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
5/22/2024 22:04	23403	HONE_T1	0	2	2	0	0.1	0.1	-0.59	-0.6	0	0	0	0	0	0
5/22/2024 22:05	48302	ORWI_T2	2	2	0	0.95	0.85	-0.1	-0.43	-0.46	0	0	0	0	0	0
5/22/2024 22:05	20401	ASHF_T2	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
5/22/2024 22:05	45902	AUBU_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	600	600	0
5/22/2024 22:06	25402	LAHA_T2	4	3	-1	0.13	0.13	0	-0.82	-0.81	0	0	0	0	0	0
5/22/2024 22:06	23202	HIRU_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
5/22/2024 22:06	16402	MOPO_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
5/22/2024 22:06	17002	RIRO_T2	20	0	-20	0.12	0	-0.12	0.58	0.52	0	0	0	0	0	0
5/22/2024 22:06	25404	LAHA_T2	211	192	-19	0.22	0.16	-0.06	0	0	0	0	0	0	0	0
5/22/2024 22:07	45902	AUBU_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	600	600	0
5/22/2024 22:07	10602	BLGL_T2	1	1	0	9.1	8.9	-0.2	0.63	0.53	0	0	0	0	0	0
5/22/2024 22:07	16102	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/22/2024 22:07	16101	BING_T2	0	0	0	0	0	0	0.84	0.85	0	0	0	0	0	0
5/22/2024 22:07	17802	GILB_T1	0	1	1	0	0.1	0.1	0.14	0.1	0	0	0	0	0	0
5/22/2024 22:07	13503	MCMI_T2	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
5/22/2024 22:07	16902	MECK_T1	0	0	0	0	0	0	0.13	0.07	0	0	0	0	0	0
5/22/2024 22:07	20403	ASHF_T2	0	0	0	0	0	0	1.64	1.41	0	0	0	0	0	0
5/22/2024 22:08	17802	GILB_T1	0	1	1	0	0.1	0.1	0.14	0.1	0	0	0	0	0	0
5/22/2024 22:08	13904	SEID_T1	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
5/22/2024 22:08	16902	MECK_T1	0	0	0	0	0	0	0.13	0.07	0	0	0	0	0	0
5/22/2024 22:08	29402	BELT_T1	1	1	0	9.2	5.9	-3.3	0	0	0	0	0	0	0	0
5/22/2024 22:08	13903	SEID_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/22/2024 22:08	29401	BELT_T1	9	0	-9	0.11	0	-0.11	0	0	0	0	0	0	0	0
5/22/2024 22:08	25503	MADI_T1	73	121	48	0.27	0.51	0.24	-0.78	-0.78	0	0	0	0	0	0
5/22/2024 22:08	13503	MCMI_T2	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
5/22/2024 22:08	13501	MCMI_T1	0	0	0	0	0	0	0.34	0.3	0	0	0	0	0	0
5/22/2024 22:08	10801	CHHI_T1	0	0	0	0	0	0	-1.51	-1.5	3	3	0	2100	2100	0
5/22/2024 22:09	13903	SEID_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/22/2024 22:09	13905	SEID_T1	0	0	0	0	0	0	-0.64	-0.65	1	1	0	1200	1200	0
5/22/2024 22:09	23203	HIRU_T2	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
5/22/2024 22:10	17802	GILB_T1	0	1	1	0	0.1	0.1	0.1	0.24	0	0	0	0	0	0
5/22/2024 22:10	29402	BELT_T1	1	1	0	9.2	5.9	-3.3	0	0	0	0	0	0	0	0
5/22/2024 22:10	11103	EGYP_T1	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
5/22/2024 22:10	29401	BELT_T1	9	0	-9	0.11	0	-0.11	0	0	1	1	0	900	900	0
5/22/2024 22:11	25603	ARRO_T1	11	18	7	0.13	0.13	0	0	0	0	0	0	0	0	0
5/22/2024 22:11	29401	BELT_T1	9	0	-9	0.11	0	-0.11	0	0	0	0	0	0	0	0
5/22/2024 22:11	10805	CHHI_T2	10	10	0	1.45	1.65	0.2	-2.48	-2.54	3	3	0	1800	1800	0
5/22/2024 22:11	29402	BELT_T1	1	1	0	9.2	5.9	-3.3	0	0	0	0	0	0	0	0
5/22/2024 22:11	25601	ARRO_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
5/22/2024 22:11	23203	HIRU_T2	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
5/22/2024 22:11	16302	ALPA_T2	0	0	0	0	0	0	2.16	2.24	0	0	0	0	0	0
5/22/2024 22:12	17401	FOHI_T1	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
5/22/2024 22:12	16402	MOPO_T1	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
5/22/2024 22:12	45902	AUBU_T1	0	0	0	0	0	0	-0.89	-0.77	1	1	0	600	600	0
5/22/2024 22:12	12701	MACU_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	1200	1200	0
5/22/2024 22:12	16302	ALPA_T2	0	0	0	0	0	0	1.08	1.12	0	0	0	0	0	0
5/22/2024 22:12	63602	LETO_T1	0	0	0	0	0	0	-0.55	-0.6	1	1	0	600	600	0
5/22/2024 22:12	11103	EGYP_T1	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
5/22/2024 22:13	10705	CATA_T2	0	0	0	0	0	0	-1.7	-0.41	1	1	0	900	900	0
5/22/2024 22:13	59101	WALK_T2	2	0	-2	0.1	0	-0.1	-0.52	-0.56	0	0	0	0	0	0
5/22/2024 22:13	23401	HONE_T2	0	1	1	0	0.1	0.1	0.34	0.32	0	0	0	0	0	0
5/22/2024 22:13	59102	WALK_T2	6	0	-6	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/22/2024 22:13	10701	CATA_T2	4	7	3	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
5/22/2024 22:13	15703	TANN_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
5/22/2024 22:13	13503	MCMI_T2	0	0	0	0	0	0	0.29	0.2	0	0	0	0	0	0
5/22/2024 22:13	15702	TANN_T2	1	1	0	1	0.5	-0.5	-0.16	-0.28	0	0	0	0	0	0
5/22/2024 22:14	59101	WALK_T2	2	0	-2	0.1	0	-0.1	-0.52	-0.56	0	0	0	0	0	0
5/22/2024 22:14	14801	TREI_T2	0	0	0	0	0	0	0.81	0.7	0	0	0	0	0	0
5/22/2024 22:14	59102	WALK_T2	6	0	-6	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/22/2024 22:14	12802	MICK_T1	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
5/22/2024 22:14	12803	MICK_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/22/2024 22:15	59101	WALK_T2	0	0	0	0	0	0	-0.52	-0.56	0	0	0	0	0	0
5/22/2024 22:15	11507	FREE_T2	10	2	-8	0.42	0.7	0.28	1.21	1.12	1	1	0	600	600	0
5/22/2024 22:16	12601	MACA_T1	0	0	0	0	0	0	1.21	1.17	0	0	0	0	0	0
5/22/2024 22:16	25603	ARRO_T1	18	3	-15	0.13	0.13	0	-0.12	-0.14	0	0	0	0	0	0
5/22/2024 22:16	64201	KINZ_T1	7	6	-1	0.51	0.22	-0.29	-0.14	0.68	3	2	-1	1500	600	-900
5/22/2024 22:16	13501	MCMI_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
5/22/2024 22:16	64204	KINZ_T1	28	4	-24	0.31	0.35	0.04	0	0	0	0	0	0	0	0
5/22/2024 22:16	13904	SEID_T1	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
5/22/2024 22:16	12701	MACU_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	1200	1200	0
5/22/2024 22:16	64202	KINZ_T1	11	2	-9	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
5/22/2024 22:16	59101	WALK_T2	0	0	0	0	0	0	-0.52	-0.56	0	0	0	0	0	0
5/22/2024 22:17	11504	FREE_T1	0	0	0	0	0	0	-1.92	-2.05	2	2	0	2100	2100	0
5/22/2024 22:17	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 22:17	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 22:17	20403	ASHF_T2	0	0	0	0	0	0	0.71	0.6	0	0	0	0	0	0
5/22/2024 22:17	40502	CRES_T2	7	12	5	0.16	0.29	0.13	-0.61	-0.63	0	0	0	0	0	0
5/22/2024 22:17	40902	JESH_T1	2	7	5	0.1	0.13	0.03	-0.96	-1.01	0	0	0	0	0	0
5/22/2024 22:17	29402	BELT_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
5/22/2024 22:17	40903	JESH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/22/2024 22:17	40901	JESH_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
5/22/2024 22:17	15103	UPHA_T2	0	0	0	0	0	0	0.81	0.77	0	0	0	0	0	0
5/22/2024 22:17	67702	WERN_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
5/22/2024 22:17	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/22/2024 22:17	44601	SALE_T2	0	1	1	0	0.2	0.2	0.12	0.1	0	0	0	0	0	0
5/22/2024 22:18	61102	BERK_T5	0	0	0	0	0	0	0.56	0.42	1	1	0	300	300	0
5/22/2024 22:18	64101	REFR_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
5/22/2024 22:18	60101	COCA_T1	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
5/22/2024 22:18	12701	MACU_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	1200	1200	0
5/22/2024 22:18	10805	CHHI_T2	10	0	-10	2.24	1.36	-0.88	-0.83	-0.85	1	1	0	600	600	0
5/22/2024 22:18	67702	WERN_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
5/22/2024 22:19	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 22:19	64202	KINZ_T1	11	2	-9	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
5/22/2024 22:19	46506	LOHA_T1	1	0	-1	0.1	0	-0.1	-0.28	-0.29	0	0	0	0	0	0
5/22/2024 22:19	46504	LOHA_T1	5	2	-3	0.62	1.05	0.43	0	0	0	0	0	0	0	0
5/22/2024 22:19	46502	LOHA_T1	216	5	-211	0.45	0.14	-0.31	0	0	0	0	0	0	0	0
5/22/2024 22:19	64201	KINZ_T1	7	6	-1	0.51	0.22	-0.29	-0.14	0.68	3	2	-1	1500	600	-900
5/22/2024 22:19	25603	ARRO_T1	18	3	-15	0.13	0.13	0	-0.12	-0.14	0	0	0	0	0	0
5/22/2024 22:19	64204	KINZ_T1	28	4	-24	0.31	0.35	0.04	0	0	0	0	0	0	0	0
5/22/2024 22:19	40502	CRES_T2	7	12	5	0.16	0.29	0.13	-0.61	-0.63	0	0	0	0	0	0
5/22/2024 22:19	64203	KINZ_T1	0	0	0	0	0	0	0.83	0.77	0	0	0	0	0	0
5/22/2024 22:19	46503	LOHA_T1	6	0	-6	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/22/2024 22:20	67703	WERN_T2	0	0	0	0	0	0	-0.45	-0.48	1	1	0	900	900	0
5/22/2024 22:20	10701	CATA_T2	7	0	-7	0.11	0	-0.11	-1.69	-1.69	1	1	0	1200	1200	0
5/22/2024 22:20	44301	BEAV_T2	0	0	0	0	0	0	0.06	0.35	1	1	0	600	600	0
5/22/2024 22:20	21203	ECAR_T1	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
5/22/2024 22:21	65001	NEFF_T2	0	0	0	0	0	0	-0.46	-0.53	1	1	0	1200	1200	0
5/22/2024 22:21	61102	BERK_T5	0	0	0	0	0	0	0.56	0.42	1	1	0	300	300	0
5/22/2024 22:21	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 22:21	67502	WEWI_T2	0	0	0	0	0	0	-0.93	-1.03	1	1	0	900	900	0
5/22/2024 22:21	67204	TEHI_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
5/22/2024 22:21	56802	BENV_T2	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
5/22/2024 22:21	40502	CRES_T2	7	12	5	0.16	0.29	0.13	-0.61	-0.63	0	0	0	0	0	0
5/22/2024 22:21	64904	MILL_T1	0	0	0	0	0	0	0.17	0.1	0	0	0	0	0	0
5/22/2024 22:21	67703	WERN_T2	0	0	0	0	0	0	-0.45	-0.48	1	1	0	900	900	0
5/22/2024 22:22	67603	WARW_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
5/22/2024 22:22	67703	WERN_T2	0	0	0	0	0	0	-0.45	-0.48	1	1	0	900	900	0
5/22/2024 22:22	40502	CRES_T2	7	12	5	0.16	0.29	0.13	-0.61	-0.63	0	0	0	0	0	0
5/22/2024 22:22	52402	GRPA_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/22/2024 22:22	17804	GILB_T2	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
5/22/2024 22:22	52403	GRPA_T2	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
5/22/2024 22:22	12701	MACU_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	1200	1200	0
5/22/2024 22:22	67502	WEWI_T2	0	0	0	0	0	0	-0.93	-1.03	1	1	0	900	900	0
5/22/2024 22:22	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 22:22	61102	BERK_T5	0	0	0	0	0	0	1.12	0.84	2	2	0	600	600	0
5/22/2024 22:22	58402	MORO_T1	0	0	0	0	0	0	-0.23	-1.21	2	3	1	1500	2400	900
5/22/2024 22:22	64902	MILL_T2	0	0	0	0	0	0	-0.86	-0.28	1	1	0	900	900	0
5/22/2024 22:23	52402	GRPA_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/22/2024 22:23	44301	BEAV_T2	0	0	0	0	0	0	0.06	0.35	1	1	0	600	600	0
5/22/2024 22:23	60201	ATGL_T2	0	0	0	0	0	0	0.47	0.39	1	1	0	300	300	0
5/22/2024 22:23	13503	MCMI_T2	0	0	0	0	0	0	0.14	0.1	0	0	0	0	0	0
5/22/2024 22:23	52404	GRPA_T2	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
5/22/2024 22:23	10801	CHHI_T1	0	0	0	0	0	0	-3	-3.14	6	6	0	4200	4200	0
5/22/2024 22:23	56802	BENV_T2	0	0	0	0	0	0	-0.47	-0.54	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/22/2024 22:23	66703	STRA_T1	4	5	1	0.23	0.36	0.13	-0.02	-0.04	0	0	0	0	0	0
5/22/2024 22:23	16302	ALPA_T2	0	0	0	0	0	0	1.08	1.12	0	0	0	0	0	0
5/22/2024 22:23	60802	BUCK_T2	15	7	-8	0.13	0.11	-0.02	0.3	0.31	0	0	0	0	0	0
5/22/2024 22:23	64702	LITI_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
5/22/2024 22:24	58402	MORO_T1	0	0	0	0	0	0	-1.21	-1.18	2	3	1	1500	2400	900
5/22/2024 22:24	50505	MECH_T1	0	0	0	0	0	0	-1.88	-1.9	0	0	0	0	0	0
5/22/2024 22:24	58001	WCAR_T1	2	3	1	0.1	0.27	0.17	0	0	0	0	0	0	0	0
5/22/2024 22:24	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 22:24	50502	MECH_T1	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
5/22/2024 22:24	61102	BERK_T5	0	0	0	0	0	0	0.42	0.32	1	1	0	300	300	0
5/22/2024 22:24	63304	GREE_T1	0	1	1	0	0.1	0.1	-1.43	-1.5	0	0	0	0	0	0
5/22/2024 22:24	63306	GREE_T1	0	0	0	0	0	0	-1.33	-1.38	1	1	0	900	900	0
5/22/2024 22:24	58003	WCAR_T1	1	1	0	0.6	1	0.4	0.45	0.45	0	3	3	0	1800	1800
5/22/2024 22:24	40502	CRES_T2	7	12	5	0.16	0.29	0.13	-0.63	-0.67	0	0	0	0	0	0
5/22/2024 22:24	11804	FRAN_T1	1	3	2	0.4	0.8	0.4	0.26	0.18	0	0	0	0	0	0
5/22/2024 22:24	63305	GREE_T1	15	15	0	0.26	0.26	0	0	0	0	0	0	0	0	0
5/22/2024 22:24	67401	WAKE_T2	58	70	12	0.21	0.22	0.01	-0.81	-0.8	0	0	0	0	0	0
5/22/2024 22:25	62101	ELAN_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/22/2024 22:25	60101	COCA_T1	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
5/22/2024 22:25	61102	BERK_T5	0	0	0	0	0	0	0.42	0.32	1	1	0	300	300	0
5/22/2024 22:25	58002	WCAR_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
5/22/2024 22:25	44301	BEAV_T2	0	0	0	0	0	0	0.35	0.3	1	1	0	600	600	0
5/22/2024 22:25	67702	WERN_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
5/22/2024 22:25	58006	WCAR_T2	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
5/22/2024 22:25	40502	CRES_T2	7	12	5	0.16	0.29	0.13	-0.63	-0.67	0	0	0	0	0	0
5/22/2024 22:25	67204	TEHI_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
5/22/2024 22:25	67603	WARW_T1	0	0	0	0	0	0	0.16	0.11	0	0	0	0	0	0
5/22/2024 22:25	62102	ELAN_T1	0	0	0	0	0	0	1.22	1.18	0	0	0	0	0	0
5/22/2024 22:25	46602	LACR_T1	0	1	1	0	0	0	0.01	0.01	0	0	0	0	0	0
5/22/2024 22:25	56802	BENV_T2	0	0	0	0	0	0	-0.47	-0.54	0	0	0	0	0	0
5/22/2024 22:25	67502	WEWI_T2	0	0	0	0	0	0	-1.03	-1.08	1	1	0	900	900	0
5/22/2024 22:25	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 22:25	55101	WERT_T1	0	0	0	0	0	0	-1.81	-1.82	3	3	0	2400	2400	0
5/22/2024 22:25	62105	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	1	0	0	0	0
5/22/2024 22:25	63602	LETO_T1	0	0	0	0	0	0	-0.6	-0.61	1	1	0	600	600	0
5/22/2024 22:26	60102	COCA_T1	0	0	0	0	0	0	-0.2	-0.22	3	3	0	2100	2100	0
5/22/2024 22:26	61102	BERK_T5	0	0	0	0	0	0	0.42	0.32	1	1	0	300	300	0
5/22/2024 22:26	66505	SMAN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/22/2024 22:26	63401	HONY_T1	0	0	0	0	0	0	-0.02	0	1	1	0	600	600	0
5/22/2024 22:26	64702	LITI_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
5/22/2024 22:26	58102	NEKI_T1	1	1	0	0.4	1.6	1.2	-1.69	-1.79	1	1	0	1200	1200	0
5/22/2024 22:26	55002	NEWP_T1	1	0	-1	0.1	0	-0.1	-0.19	-0.2	0	0	0	0	0	0
5/22/2024 22:26	50201	HARR_T3	1	2	1	8.2	4.7	-3.5	0	0	0	0	0	0	0	0
5/22/2024 22:26	64101	REFR_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
5/22/2024 22:26	50105	HARR_T3	6	0	0	6.37	5.95	-0.42	0	0	0	0	0	0	0	0
5/22/2024 22:26	63304	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/22/2024 22:26	62105	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/22/2024 22:26	50103	HARR_T3	0	2	2	0	0.5	0.5	-1.45	-1.45	1	1	0	1200	1200	0
5/22/2024 22:26	63305	GREE_T1	15	15	0	0.26	0.26	0	-1.96	-1.92	1	1	0	900	900	0
5/22/2024 22:26	67203	TEHI_T1	0	0	0	0	0	0	2.38	2.39	2	2	0	1500	1500	0
5/22/2024 22:26	62101	ELAN_T1	1	1	0	0.4	0.2	-0.2	1.46	2.19	2	2	0	1800	1800	0
5/22/2024 22:26	66504	SMAN_T2	0	0	0	0	0	0	-3.18	-3.54	3	3	0	3600	3600	0
5/22/2024 22:26	67702	WERN_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
5/22/2024 22:27	63305	GREE_T1	15	15	0	0.26	0.26	0	-1.96	-1.92	1	1	0	900	900	0
5/22/2024 22:27	52402	GRPA_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/22/2024 22:27	64702	LITI_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
5/22/2024 22:27	64204	KINZ_T1	28	4	-24	0.31	0.35	0.04	0	0	0	0	0	0	0	0
5/22/2024 22:27	64101	REFR_T1	0	0	0	0	0	0	1.14	1.03	0	0	0	0	0	0
5/22/2024 22:27	12505	MITR_T2	0	0	0	0	0	0	1.36	1.34	0	0	0	0	0	0
5/22/2024 22:27	55101	WERT_T1	0	0	0	0	0	0	-1.81	-1.82	3	3	0	2400	2400	0
5/22/2024 22:27	61102	BERK_T5	0	0	0	0	0	0	0.42	0.32	1	1	0	300	300	0
5/22/2024 22:27	56801	BENV_T1	0	10	10	0	0.45	0.45	-0.61	-0.69	1	1	0	600	600	0
5/22/2024 22:27	63304	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/22/2024 22:27	64202	KINZ_T1	11	2	-9	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
5/22/2024 22:27	64203	KINZ_T1	0	0	0	0	0	0	1.53	1.41	0	0	0	0	0	0
5/22/2024 22:27	44301	BEAV_T2	0	0	0	0	0	0	0.69	0.6	2	2	0	1200	1200	0
5/22/2024 22:27	55002	NEWP_T1	1	0	-1	0.1	0	-0.1	-0.38	-0.4	0	0	0	0	0	0
5/22/2024 22:27	12502	MITR_T2	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
5/22/2024 22:27	52404	GRPA_T2	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
5/22/2024 22:27	64201	KINZ_T1	7	6	-1	0.51	0.22	-0.29	0	0	0	0	0	0	0	0
5/22/2024 22:27	67702	WERN_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
5/22/2024 22:28	42902	MIDD_T2	17	16	-1	0.2	0.22	0.02	-0.33	-0.22	0	0	0	0	0	0
5/22/2024 22:28	63305	GREE_T1	15	15	0	0.26	0.26	0	0	0	0	0	0	0	0	0
5/22/2024 22:28	66505	SMAN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/22/2024 22:28	63302	GREE_T1	0	0	0	0	0	0	0.62	0.51	0	0	0	0	0	0
5/22/2024 22:28	64203	KINZ_T1	0	0	0	0	0	0	0.77	0.71	0	0	0	0	0	0
5/22/2024 22:28	64101	REFR_T1	0	0	0	0	0	0	0.45	0.41	0	0	0	0	0	0
5/22/2024 22:28	57101	SPHI_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
5/22/2024 22:28	46101	MACI_T2	0	0	0	0	0	0	0.69	0.65	0	0	0	0	0	0
5/22/2024 22:28	64201	KINZ_T1	7	6	-1	0.51	0.22	-0.29	0	0	0	0	0	0	0	0
5/22/2024 22:28	57104	SPHI_T2	1	1	0	0.7	0.5	-0.2	-1.39	-1.46	1	1	0	900	900	0
5/22/2024 22:28	42903	MIDD_T2	2	2	0	1.8	1.75	-0.05	0	0	0	0	0	0	0	0
5/22/2024 22:28	58302	NOTT_T1	0	0	0	0	0	0	-0.16	-0.21	1	1	0	1200	1200	0
5/22/2024 22:28	64802	MONE_T2	3	2	-1	0.13	0.15	0.02	0.26	0.26	0	0	0	0	0	0
5/22/2024 22:28	61703	ELIZ_T1	0	0	0	0	0	0	-8.1	-8.22	6	6	0	6300	6300	0
5/22/2024 22:28	51505	SWAT_T2	0	0	0	0	0	0	0.55	0.73	0	0	0	0	0	0
5/22/2024 22:28	45501	DERR_T2	2	0	-2	1.2	0	-1.2	0	0	0	0	0	0	0	0
5/22/2024 22:28	53501	EVIL_T2	1	1	0	1.6	0.9	-0.7	0	0	0	0	0	0	0	0
5/22/2024 22:28	53502	EVIL_T2	0	0	0	0	0	0	0.42	0.31	1	1	0	600	600	0
5/22/2024 22:28	44301	BEAV_T2	0	0	0	0	0	0	0.35	0.3	1	1	0	600	600	0
5/22/2024 22:28	46801	HEPB_T1	1	3	2	0.6	0.33	-0.27	-0.25	-0.25	0	0	0	0	0	0
5/22/2024 22:28	63804	HEMP_T1	5	1	-4	1.16	6	4.84	1.23	1.19	0	0	0	0	0	0
5/22/2024 22:28	64204	KINZ_T1	28	4	-24	0.31	0.35	0.04	0	0	0	0	0	0	0	0
5/22/2024 22:28	67605	WARW_T1	0	0	0	0	0	0	-1.09	-1.17	0	0	0	0	0	0
5/22/2024 22:28	65205	PRIN_T1	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
5/22/2024 22:28	64801	MONE_T2	4	5	1	0.18	0.2	0.02	0	0	0	0	0	0	0	0
5/22/2024 22:28	61701	ELIZ_T1	1	1	0	3	3.3	0.3	0	0	0	0	0	0	0	0
5/22/2024 22:28	64202	KINZ_T1	11	2	-9	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
5/22/2024 22:28	45502	DERR_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
5/22/2024 22:28	57106	SPHI_T2	3	3	0	0.6	0.83	0.23	0	0	0	0	0	0	0	0
5/22/2024 22:28	66502	SMAN_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
5/22/2024 22:28	63304	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/22/2024 22:29	54203	PENN_T1	5	5	0	0.74	0.38	-0.36	0	0	0	0	0	0	0	0
5/22/2024 22:29	43301	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/22/2024 22:29	64101	REFR_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
5/22/2024 22:29	60502	NMAN_T2	0	0	0	0	0	0	-0.01	-0.1	0	0	0	0	0	0
5/22/2024 22:29	57302	MOAL_T2	0	0	0	0	0	0	-1.13	-1.15	1	1	0	1200	1200	0
5/22/2024 22:29	66703	STRA_T1	4	5	1	0.23	0.36	0.13	-0.02	-0.04	0	0	0	0	0	0
5/22/2024 22:29	66505	SMAN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/22/2024 22:29	42902	MIDD_T2	17	16	-1	0.2	0.22	0.02	-0.33	-0.22	0	0	0	0	0	0
5/22/2024 22:29	56802	BENV_T2	0	0	0	0	0	0	-0.47	-0.54	0	0	0	0	0	0
5/22/2024 22:29	42903	MIDD_T2	2	2	0	1.8	1.75	-0.05	0	0	0	0	0	0	0	0
5/22/2024 22:29	47401	PENS_T1	0	0	0	0	0	0	3.3	3.3	0	0	0	0	0	0
5/22/2024 22:29	46101	MACI_T2	0	0	0	0	0	0	0.69	0.65	0	0	0	0	0	0
5/22/2024 22:29	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
5/22/2024 22:29	54201	PENN_T1	4	3	-1	1	0.93	-0.07	-0.52	-0.57	0	0	0	0	0	0
5/22/2024 22:29	44301	BEAV_T2	0	0	0	0	0	0	0.69	0.6	2	2	0	1200	1200	0
5/22/2024 22:29	61102	BERK_T5	0	0	0	0	0	0	0.42	0.32	1	1	0	300	300	0
5/22/2024 22:29	59302	MCAL_T1	0	0	0	0	0	0	-0.89	-0.84	1	1	0	600	600	0
5/22/2024 22:29	57306	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 22:29	57303	MOAL_T2	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
5/22/2024 22:29	66502	SMAN_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
5/22/2024 22:29	43302	WATS_T2	4	4	0	0.25	0.38	0.13	0	0	0	0	0	0	0	0
5/22/2024 22:29	60501	NMAN_T2	3	3	0	3.73	4.5	0.77	0	0	0	0	0	0	0	0
5/22/2024 22:29	59301	MCAL_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
5/22/2024 22:30	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/22/2024 22:30	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 22:30	60902	DONG_T2	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
5/22/2024 22:30	57104	SPHI_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
5/22/2024 22:30	67401	WAKE_T2	67	52	-15	0.23	0.16	-0.07	0	0	0	0	0	0	0	0
5/22/2024 22:30	45501	DERR_T2	0	0	0	0	0	0	-0.19	-0.21	2	2	0	1800	1800	0
5/22/2024 22:30	63804	HEMP_T1	1	1	0	6	6	0	1.23	1.19	0	0	0	0	0	0
5/22/2024 22:30	51604	DUKE_T2	0	0	0	0	0	0	-1	-1.03	1	1	0	900	900	0
5/22/2024 22:30	60501	NMAN_T2	3	3	0	4	4.53	0.53	0	0	0	0	0	0	0	0
5/22/2024 22:30	67702	WERN_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
5/22/2024 22:30	60502	NMAN_T2	0	0	0	0	0	0	-0.01	-0.1	0	0	0	0	0	0
5/22/2024 22:30	57103	SPHI_T2	0	0	0	0	0	0	-1.16	-0.56	1	1	0	600	600	0
5/22/2024 22:30	47401	PENS_T1	0	0	0	0	0	0	1.1	1.1	0	0	0	0	0	0
5/22/2024 22:30	57106	SPHI_T2	3	3	0	0.83	1.13	0.3	0	0	0	0	0	0	0	0
5/22/2024 22:30	56501	ROCK_T2	6	19	13	0.37	0.29	-0.08	0	0	0	0	0	0	0	0
5/22/2024 22:30	57101	SPHI_T2	0	6	6	0	0.65	0.65	0	0	0	0	0	0	0	0
5/22/2024 22:30	67402	WAKE_T2	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
5/22/2024 22:31	56803	BENV_T1	0	0	0	0	0	0	-0.03	-0.03	1	1	0	600	600	0
5/22/2024 22:31	40903	JESH_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/22/2024 22:31	63305	GREE_T1	15	4	-11	0.25	0.28	0.03	0	0	0	0	0	0	0	0
5/22/2024 22:31	67605	WARW_T1	0	0	0	0	0	0	-1.09	-1.17	0	0	0	0	0	0
5/22/2024 22:31	56501	ROCK_T2	6	19	13	0.37	0.29	-0.08	0	0	0	0	0	0	0	0
5/22/2024 22:31	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
5/22/2024 22:31	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 22:31	66703	STRA_T1	5	5	0	0.34	0.4	0.06	0	0	0	0	0	0	0	0
5/22/2024 22:31	67801	WLAN_T1	0	0	0	0	0	0	-0.05	-0.12	0	0	0	0	0	0
5/22/2024 22:31	40901	JESH_T1	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
5/22/2024 22:31	56801	BENV_T1	1	10	9	0.2	0.87	0.67	0	0	0	0	0	0	0	0
5/22/2024 22:31	14203	EALL_T1	0	0	0	0	0	0	0.22	0.04	1	1	0	1200	1200	0
5/22/2024 22:31	42902	MIDD_T2	16	18	2	0.22	0.23	0.01	-0.33	-0.22	0	0	0	0	0	0
5/22/2024 22:31	42903	MIDD_T2	2	2	0	1.75	1.65	-0.1	0	0	0	0	0	0	0	0
5/22/2024 22:31	63304	GREE_T1	1	0	-1	0.1	0	-0.1	-1.43	-1.5	0	0	0	0	0	0
5/22/2024 22:31	40902	JESH_T1	7	0	-7	0.13	0	-0.13	-1.01	-1.09	0	0	0	0	0	0
5/22/2024 22:31	66701	STRA_T1	0	0	0	0	0	0	0.41	0.27	1	1	0	600	600	0
5/22/2024 22:31	58402	MORO_T1	0	0	0	0	0	0	-1.21	-1.18	3	3	0	2400	2400	0
5/22/2024 22:32	53901	HALI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/22/2024 22:32	40903	JESH_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/22/2024 22:32	61701	ELIZ_T1	1	1	0	3.2	3.7	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/22/2024 22:32	53601	DALM_T2	1	1	0	0.4	0.8	0.4	-0.91	-0.78	1	1	0	900	900	0
5/22/2024 22:32	46801	HEPB_T2	2	0	-2	0.45	0	-0.45	0.79	0.74	0	0	0	0	0	0
5/22/2024 22:32	40902	JESH_T1	7	0	-7	0.13	0	-0.13	-1.01	-1.09	0	0	0	0	0	0
5/22/2024 22:32	61703	ELIZ_T1	0	0	0	0	0	0	-2.7	-2.74	2	2	0	2100	2100	0
5/22/2024 22:32	45501	DERR_T2	0	0	0	0	0	0	-0.19	-0.21	2	2	0	1800	1800	0
5/22/2024 22:32	52101	MEIS_T1	2	2	0	0.7	1.35	0.65	0	0	0	0	0	0	0	0
5/22/2024 22:32	64201	KINZ_T1	6	7	1	0.22	0.27	0.05	0	0	0	0	0	0	0	0
5/22/2024 22:32	53902	HALI_T2	1	1	0	5.1	5.9	0.8	0	0	0	0	0	0	0	0
5/22/2024 22:32	53501	EVIL_T2	1	1	0	0.9	0.2	-0.7	-2.15	-1.26	3	2	-1	2100	1200	-900
5/22/2024 22:32	64204	KINZ_T1	4	9	5	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
5/22/2024 22:32	53903	HALI_T2	2	2	0	1	1.3	0.3	-0.08	-0.08	0	0	0	0	0	0
5/22/2024 22:32	40901	JESH_T1	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
5/22/2024 22:32	56501	ROCK_T2	6	19	13	0.37	0.29	-0.08	167.92	167.92	0	0	0	0	0	0
5/22/2024 22:32	54203	PENN_T1	5	5	0	0.26	0.68	0.42	0.45	0.47	0	0	0	0	0	0
5/22/2024 22:32	45702	LIND_T2	1	0	-1	0.1	0	-0.1	-1.65	-1.65	0	0	0	0	0	0
5/22/2024 22:32	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/22/2024 22:32	67605	WARW_T1	0	0	0	0	0	0	-1.09	-1.17	0	0	0	0	0	0
5/22/2024 22:32	64203	KINZ_T1	0	0	0	0	0	0	0.77	0.71	0	0	0	0	0	0
5/22/2024 22:32	47401	PENS_T1	0	0	0	0	0	0	1.1	1.1	0	0	0	0	0	0
5/22/2024 22:32	64202	KINZ_T1	0	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0
5/22/2024 22:32	56802	BENV_T2	0	0	0	0	0	0	-0.94	-1.08	0	0	0	0	0	0
5/22/2024 22:32	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
5/22/2024 22:32	54201	PENN_T1	3	3	0	0.83	1.07	0.24	0	0	0	0	0	0	0	0
5/22/2024 22:32	45802	HEGI_T2	46	42	-4	0.87	0.6	-0.27	-0.28	-0.23	1	1	0	900	900	0
5/22/2024 22:32	57401	SPAN_T1	0	0	0	0	0	0	-1.06	-0.84	1	1	0	600	600	0
5/22/2024 22:33	40902	JESH_T1	7	0	-7	0.13	0	-0.13	-1.01	-1.09	0	0	0	0	0	0
5/22/2024 22:33	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/22/2024 22:33	42902	MIDD_T2	16	18	2	0.22	0.23	0.01	-0.33	-0.22	0	0	0	0	0	0
5/22/2024 22:33	40901	JESH_T1	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
5/22/2024 22:33	45802	HEGI_T2	46	42	-4	0.87	0.6	-0.27	-0.28	-0.23	1	1	0	900	900	0
5/22/2024 22:33	47401	PENS_T1	0	0	0	0	0	0	1.1	1.1	0	0	0	0	0	0
5/22/2024 22:33	64101	REFR_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
5/22/2024 22:33	53501	EVIL_T2	1	1	0	0.9	0.2	-0.7	-2.15	-1.26	3	2	-1	2100	1200	-900
5/22/2024 22:33	41901	REED_T1	9	7	-2	0.32	0.17	-0.15	0	0	0	0	0	0	0	0
5/22/2024 22:33	42903	MIDD_T2	2	2	0	1.75	1.65	-0.1	-0.03	0.07	0	0	0	0	0	0
5/22/2024 22:33	40903	JESH_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/22/2024 22:33	44601	SALE_T2	0	1	1	0	0.2	0.2	0.1	0.07	0	0	0	0	0	0
5/22/2024 22:33	61703	ELIZ_T1	0	0	0	0	0	0	-2.7	-2.74	2	2	0	2100	2100	0
5/22/2024 22:33	45501	DERR_T2	0	0	0	0	0	0	-0.37	-0.42	4	4	0	3600	3600	0
5/22/2024 22:33	56802	BENV_T2	0	0	0	0	0	0	-0.47	-0.54	0	0	0	0	0	0
5/22/2024 22:33	61701	ELIZ_T1	1	1	0	3.2	3.7	0.5	0	0	0	0	0	0	0	0
5/22/2024 22:33	44502	HAMI_T2	1	1	0	2.4	2.7	0.3	-0.67	-0.73	0	0	0	0	0	0
5/22/2024 22:33	41902	REED_T1	0	0	0	0	0	0	0.34	0.39	1	1	0	900	900	0
5/22/2024 22:33	51306	WIND_T2	0	0	0	0	0	0	-0.89	-0.86	0	0	0	0	0	0
5/22/2024 22:34	61803	EELI_T2	0	0	0	0	0	0	0.21	0.21	1	1	0	600	600	0
5/22/2024 22:34	67605	WARW_T1	0	0	0	0	0	0	-1.09	-1.17	0	0	0	0	0	0
5/22/2024 22:34	40901	JESH_T1	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
5/22/2024 22:34	49804	UNIV_T1	1	4	3	0.2	0.15	-0.05	0.77	0.81	0	0	0	0	0	0
5/22/2024 22:34	44502	HAMI_T2	1	1	0	2.4	2.7	0.3	-0.67	-0.73	0	0	0	0	0	0
5/22/2024 22:34	40903	JESH_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/22/2024 22:34	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/22/2024 22:34	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
5/22/2024 22:34	40902	JESH_T1	7	0	-7	0.13	0	-0.13	-1.01	-1.09	0	0	0	0	0	0
5/22/2024 22:34	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 22:34	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 22:34	47401	PENS_T1	0	0	0	0	0	0	2.2	2.2	0	0	0	0	0	0
5/22/2024 22:34	56501	ROCK_T2	6	19	13	0.37	0.29	-0.08	83.96	83.96	0	0	0	0	0	0
5/22/2024 22:35	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/22/2024 22:35	44502	HAMI_T2	1	1	0	2.4	2.7	0.3	0	0	0	0	0	0	0	0
5/22/2024 22:35	47401	PENS_T1	0	0	0	0	0	0	2.2	2.2	0	0	0	0	0	0
5/22/2024 22:35	44505	HAMI_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
5/22/2024 22:36	46801	HEPB_T2	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
5/22/2024 22:36	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
5/22/2024 22:36	46801	HEPB_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
5/22/2024 22:36	44301	BEAV_T2	0	0	0	0	0	0	0.35	0.3	1	1	0	600	600	0
5/22/2024 22:37	55002	NEWP_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
5/22/2024 22:37	56501	ROCK_T2	6	19	13	0.37	0.29	-0.08	0	0	0	0	0	0	0	0
5/22/2024 22:37	41901	REED_T1	9	7	-2	0.32	0.17	-0.15	0	0	0	0	0	0	0	0
5/22/2024 22:37	44505	HAMI_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
5/22/2024 22:37	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
5/22/2024 22:37	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 22:37	41902	REED_T1	0	0	0	0	0	0	0.68	0.78	2	2	0	1800	1800	0
5/22/2024 22:37	44502	HAMI_T2	1	1	0	2.4	2.7	0.3	0	0	0	0	0	0	0	0
5/22/2024 22:38	53901	HALI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/22/2024 22:38	41902	REED_T1	0	0	0	0	0	0	0.39	0.39	1	1	0	900	900	0
5/22/2024 22:38	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 22:38	43402	BENT_T1	1	0	-1	0.1	0	-0.1	-0.89	-0.89	1	1	0	900	900	0
5/22/2024 22:38	43302	WATS_T2	4	2	-2	0.38	0.1	-0.28	0	0	0	0	0	0	0	0
5/22/2024 22:38	53903	HALI_T2	2	2	0	1	1.3	0.3	-0.08	-0.08	0	0	0	0	0	0
5/22/2024 22:38	53902	HALI_T2	1	1	0	5.1	5.9	0.8	0	0	0	0	0	0	0	0
5/22/2024 22:38	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 22:38	41901	REED_T1	9	7	-2	0.32	0.17	-0.15	0	0	0	0	0	0	0	0
5/22/2024 22:38	45501	DERR_T2	0	0	0	0	0	0	-0.19	-0.21	2	2	0	1800	1800	0
5/22/2024 22:38	56501	ROCK_T2	6	19	13	0.37	0.29	-0.08	83.96	83.96	0	0	0	0	0	0
5/22/2024 22:39	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/22/2024 22:39	53902	HALI_T2	1	1	0	5.1	5.9	0.8	-0.81	-0.78	0	0	0	0	0	0
5/22/2024 22:39	56501	ROCK_T2	6	19	13	0.37	0.29	-0.08	83.96	83.96	0	0	0	0	0	0
5/22/2024 22:39	53901	HALI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/22/2024 22:39	49803	UNIV_T1	0	0	0	0	0	0	-0.95	-1.02	0	0	0	0	0	0
5/22/2024 22:39	49804	UNIV_T1	1	4	3	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/22/2024 22:39	53903	HALI_T2	2	2	0	1	1.3	0.3	0	0	0	0	0	0	0	0
5/22/2024 22:40	43402	BENT_T1	1	0	-1	0.1	0	-0.1	-0.89	-0.91	1	1	0	900	900	0
5/22/2024 22:40	56802	BENV_T2	0	0	0	0	0	0	-0.54	-0.51	0	0	0	0	0	0
5/22/2024 22:41	53901	HALI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/22/2024 22:41	53903	HALI_T2	2	2	0	1	1.3	0.3	-0.08	-0.08	0	0	0	0	0	0
5/22/2024 22:41	43402	BENT_T1	1	0	-1	0.1	0	-0.1	-0.89	-0.91	1	1	0	900	900	0
5/22/2024 22:41	53902	HALI_T2	1	1	0	5.1	5.9	0.8	0	0	0	0	0	0	0	0
5/22/2024 22:41	56802	BENV_T2	0	0	0	0	0	0	-2.16	-2.04	0	0	0	0	0	0
5/22/2024 22:42	53901	HALI_T2	0	1	1	0	0.4	0.4	-1.21	-1.24	0	0	0	0	0	0
5/22/2024 22:42	53902	HALI_T2	1	1	0	5.1	5.9	0.8	0	0	0	0	0	0	0	0
5/22/2024 22:42	56802	BENV_T2	0	0	0	0	0	0	-0.54	-0.51	0	0	0	0	0	0
5/22/2024 22:42	53903	HALI_T2	2	2	0	1	1.3	0.3	0	0	0	0	0	0	0	0
5/22/2024 22:43	56501	ROCK_T2	6	19	13	0.37	0.29	-0.08	83.96	83.96	0	0	0	0	0	0
5/22/2024 22:51	67702	WERN_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
5/22/2024 22:58	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	900	900	0
5/22/2024 22:59	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	900	900	0
5/22/2024 23:20	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	900	900	0
5/22/2024 23:21	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	900	900	0
5/22/2024 23:35	64202	KINZ_T1	3	2	-1	0.83	0.2	-0.63	0	0	0	0	0	0	0	0
5/22/2024 23:35	64204	KINZ_T1	17	14	-3	0.22	0.25	0.03	0	0	0	0	0	0	0	0
5/22/2024 23:35	64201	KINZ_T1	7	7	0	0.33	0.33	0	0	0	0	0	0	0	0	0
5/22/2024 23:35	64203	KINZ_T1	0	0	0	0	0	0	0.47	0.41	0	0	0	0	0	0
5/22/2024 23:36	64201	KINZ_T1	7	7	0	0.33	0.33	0	0	0	0	0	0	0	0	0
5/22/2024 23:36	64204	KINZ_T1	17	14	-3	0.22	0.25	0.03	0	0	0	0	0	0	0	0
5/22/2024 23:36	64203	KINZ_T1	0	0	0	0	0	0	0.47	0.41	0	0	0	0	0	0
5/22/2024 23:36	64202	KINZ_T1	3	2	-1	0.83	0.2	-0.63	0	0	0	0	0	0	0	0
5/22/2024 23:37	16301	ALPA_T1	1	0	-1	0.5	0	-0.5	0.01	-0.07	0	0	0	0	0	0
5/22/2024 23:43	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.92	1	1	0	900	900	0
5/22/2024 23:44	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.92	1	1	0	900	900	0
5/22/2024 23:50	64204	KINZ_T1	14	1	-13	0.25	1	0.75	0	0	0	0	0	0	0	0
5/22/2024 23:50	64201	KINZ_T1	7	1	-6	0.33	0.7	0.37	0	0	0	0	0	0	0	0
5/22/2024 23:50	64202	KINZ_T1	2	0	-2	0.2	0	-0.2	1.02	0.92	0	0	0	0	0	0
5/23/2024 0:06	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.91	1	1	0	900	900	0
5/23/2024 0:07	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.91	1	1	0	900	900	0
5/23/2024 0:14	29402	BELT_T1	1	1	0	6.2	6.7	0.5	0	0	0	0	0	0	0	0
5/23/2024 0:14	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/23/2024 0:29	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.93	1	1	0	900	900	0
5/23/2024 0:30	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.93	1	1	0	900	900	0
5/23/2024 0:52	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
5/23/2024 0:53	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
5/23/2024 1:15	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
5/23/2024 1:16	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
5/23/2024 2:25	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
5/23/2024 2:26	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
5/23/2024 2:45	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
5/23/2024 2:46	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
5/23/2024 2:59	65901	SAKR_T2	1	1	0	8.8	8.9	0.1	-1.13	-1.23	1	1	0	900	900	0
5/23/2024 3:09	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
5/23/2024 3:10	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
5/23/2024 3:29	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
5/23/2024 3:30	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
5/23/2024 3:33	24802	VALM_T1	0	0	0	0	0	0	2	1.97	0	0	0	0	0	0
5/23/2024 6:57	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/23/2024 6:57	29402	BELT_T1	1	1	0	7.2	7.6	0.4	0	0	0	0	0	0	0	0
5/23/2024 7:24	67703	WERN_T2	0	0	0	0	0	0	-0.67	-0.68	1	1	0	900	900	0
5/23/2024 7:25	67605	WARW_T1	8	12	4	0.23	0.3	0.07	-0.95	-0.97	0	0	0	0	0	0
5/23/2024 7:31	17805	GILB_T2	0	0	0	0	0	0	0.04	0.09	0	0	0	0	0	0
5/23/2024 7:35	20403	ASHF_T2	0	0	0	0	0	0	0.15	0.07	0	0	0	0	0	0
5/23/2024 7:35	20401	ASHF_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
5/23/2024 7:40	29401	BELT_T1	0	27	27	0	0.13	0.13	0	0	1	1	0	900	900	0
5/23/2024 7:40	29402	BELT_T1	1	1	0	7.4	8.1	0.7	0	0	0	0	0	0	0	0
5/23/2024 7:43	29401	BELT_T1	0	27	27	0	0.13	0.13	0	0	1	1	0	900	900	0
5/23/2024 7:43	29402	BELT_T1	1	1	0	7.4	8.1	0.7	0	0	0	0	0	0	0	0
5/23/2024 7:52	15204	SFAR_T2	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
5/23/2024 7:55	15204	SFAR_T2	0	0	0	0	0	0	0.23	0.16	0	0	0	0	0	0
5/23/2024 7:58	60803	BUCK_T1	0	0	0	0	0	0	-0.44	-0.44	1	1	0	600	600	0
5/23/2024 7:59	60803	BUCK_T1	0	0	0	0	0	0	-0.44	-0.44	1	1	0	600	600	0
5/23/2024 8:06	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.07	0.15	0	0	0	0	0	0
5/23/2024 8:06	20401	ASHF_T2	2	4	2	0.65	0.23	-0.42	0	0	0	0	0	0	0	0
5/23/2024 8:09	55101	WERT_T1	0	0	0	0	0	0	-1.4	-1.52	3	3	0	2400	2400	0
5/23/2024 8:11	55101	WERT_T1	0	0	0	0	0	0	-1.4	-1.52	3	3	0	2400	2400	0
5/23/2024 8:13	57004	WHHI_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
5/23/2024 8:20	47502	NECO_T1	41	43	2	0.3	0.27	-0.03	0.89	0.91	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/23/2024 8:21	57403	SPAN_T1	28	32	4	0.24	0.25	0.01	0.12	0.2	0	0	0	0	0	0
5/23/2024 8:26	67503	WEWI_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
5/23/2024 8:26	67703	WERN_T2	0	0	0	0	0	0	-0.68	-0.67	1	1	0	900	900	0
5/23/2024 8:26	57403	SPAN_T1	28	32	4	0.24	0.25	0.01	0.1	0.06	0	0	0	0	0	0
5/23/2024 8:28	61102	BERK_T5	0	0	0	0	0	0	0.09	0.3	1	1	0	300	300	0
5/23/2024 8:28	62601	ENGL_T1	0	0	0	0	0	0	-1.09	-1.06	0	0	0	0	0	0
5/23/2024 8:28	62607	ENGL_T1	1	1	0	0.2	0	-0.2	-0.84	-0.84	1	1	0	300	300	0
5/23/2024 8:29	62607	ENGL_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/23/2024 8:29	62602	ENGL_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
5/23/2024 8:34	57303	MOAL_T2	1	1	0	7.3	6.6	-0.7	0	0	0	0	0	0	0	0
5/23/2024 8:34	57306	MOAL_T2	0	0	0	0	0	0	-3.08	-3.1	1	1	0	1200	1200	0
5/23/2024 8:34	57304	MOAL_T2	1	5	4	0.2	0.28	0.08	0	0	0	0	0	0	0	0
5/23/2024 8:39	57306	MOAL_T2	0	0	0	0	0	0	-3.1	-3.11	1	1	0	1200	1200	0
5/23/2024 8:39	57304	MOAL_T2	1	5	4	0.2	0.28	0.08	0	0	0	0	0	0	0	0
5/23/2024 8:39	57303	MOAL_T2	1	1	0	7.3	6.6	-0.7	0	0	0	0	0	0	0	0
5/23/2024 8:41	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/23/2024 8:43	62607	ENGL_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/23/2024 8:43	62605	ENGL_T1	0	0	0	0	0	0	-1	-0.9	0	0	0	0	0	0
5/23/2024 8:44	15204	SFAR_T2	0	33	33	0	8.88	8.88	0.24	0.17	0	0	0	0	0	0
5/23/2024 8:44	15203	SFAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 8:46	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 8:46	62605	ENGL_T1	0	0	0	0	0	0	-0.5	-0.45	0	0	0	0	0	0
5/23/2024 8:47	67703	WERN_T2	0	0	0	0	0	0	-0.67	-0.68	1	1	0	900	900	0
5/23/2024 8:48	63801	HEMP_T1	0	0	0	0	0	0	-0.46	0.55	1	0	-1	900	0	-900
5/23/2024 8:48	63804	HEMP_T1	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
5/23/2024 8:48	20401	ASHF_T2	5	5	0	0.36	0.44	0.08	0	0	0	0	0	0	0	0
5/23/2024 8:48	20403	ASHF_T2	1	3	2	0.1	0.17	0.07	0.11	0.1	0	0	0	0	0	0
5/23/2024 8:48	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/23/2024 8:49	54201	PENN_T1	8	10	2	1.16	1	-0.16	-0.79	-0.69	0	0	0	0	0	0
5/23/2024 8:49	54203	PENN_T1	18	18	0	1.04	1.01	-0.03	0	0	0	0	0	0	0	0
5/23/2024 8:50	67703	WERN_T2	0	0	0	0	0	0	-0.67	-0.68	1	1	0	900	900	0
5/23/2024 8:51	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/23/2024 8:55	61102	BERK_T5	0	0	0	0	0	0	0.37	0.23	1	1	0	300	300	0
5/23/2024 8:55	64101	REFR_T1	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
5/23/2024 8:56	61102	BERK_T5	0	0	0	0	0	0	0.37	0.23	1	1	0	300	300	0
5/23/2024 8:57	61102	BERK_T5	0	0	0	0	0	0	0.74	0.45	2	2	0	600	600	0
5/23/2024 8:59	61702	ELIZ_T2	0	0	0	0	0	0	-2.47	-2.39	2	2	0	1500	1500	0
5/23/2024 9:02	64203	KINZ_T1	0	0	0	0	0	0	1.07	1.19	2	2	0	900	900	0
5/23/2024 9:02	64204	KINZ_T1	1	1	0	1.5	0.7	-0.8	0	0	0	0	0	0	0	0
5/23/2024 9:02	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/23/2024 9:03	64204	KINZ_T1	1	1	0	1.5	0.7	-0.8	0	0	0	0	0	0	0	0
5/23/2024 9:03	52404	GRPA_T2	0	0	0	0	0	0	0.54	0.02	0	0	0	0	0	0
5/23/2024 9:03	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/23/2024 9:03	52402	GRPA_T2	2	4	2	0.75	0.2	-0.55	0	0	0	0	0	0	0	0
5/23/2024 9:03	52403	GRPA_T2	2	1	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/23/2024 9:03	64203	KINZ_T1	0	0	0	0	0	0	1.07	1.19	2	2	0	900	900	0
5/23/2024 9:04	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/23/2024 9:04	64204	KINZ_T1	1	1	0	1.5	0.7	-0.8	0	0	0	0	0	0	0	0
5/23/2024 9:04	64203	KINZ_T1	0	0	0	0	0	0	1.07	1.19	2	2	0	900	900	0
5/23/2024 9:05	64204	KINZ_T1	1	1	0	1.5	0.7	-0.8	0	0	0	0	0	0	0	0
5/23/2024 9:05	64203	KINZ_T1	0	0	0	0	0	0	1.07	1.19	2	2	0	900	900	0
5/23/2024 9:05	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/23/2024 9:07	50701	SMEC_T1	0	0	0	0	0	0	-0.64	-0.57	1	1	0	1200	1200	0
5/23/2024 9:08	66503	SMAN_T2	0	0	0	0	0	0	0.56	0.5	0	0	0	0	0	0
5/23/2024 9:08	43102	SMIL_T2	6	6	0	0.48	0.5	0.02	0	0	0	0	0	0	0	0
5/23/2024 9:08	43108	SMIL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/23/2024 9:08	43103	SMIL_T2	15	10	-5	0.31	0.26	-0.05	-0.75	-0.69	0	0	0	0	0	0
5/23/2024 9:08	43105	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/23/2024 9:09	43108	SMIL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/23/2024 9:09	43103	SMIL_T2	15	10	-5	0.31	0.26	-0.05	-0.69	-0.75	0	0	0	0	0	0
5/23/2024 9:09	43106	SMIL_T2	0	0	0	0	0	0	-0.85	-0.82	2	2	0	2400	2400	0
5/23/2024 9:09	43105	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/23/2024 9:09	43102	SMIL_T2	6	6	0	0.48	0.5	0.02	0	0	0	0	0	0	0	0
5/23/2024 9:12	50701	SMEC_T1	0	0	0	0	0	0	-0.57	-0.54	1	1	0	1200	1200	0
5/23/2024 9:13	29401	BELT_T1	3	28	25	0.1	0.15	0.05	0	0	1	1	0	900	900	0
5/23/2024 9:13	29402	BELT_T1	1	1	0	8	8.5	0.5	0	0	0	0	0	0	0	0
5/23/2024 9:14	29401	BELT_T1	3	28	25	0.1	0.15	0.05	0	0	1	1	0	900	900	0
5/23/2024 9:14	29402	BELT_T1	1	1	0	8	8.5	0.5	0	0	0	0	0	0	0	0
5/23/2024 9:14	17401	FOHI_T1	0	0	0	0	0	0	-0.83	-0.85	0	0	0	0	0	0
5/23/2024 9:17	64702	LITI_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
5/23/2024 9:18	64702	LITI_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
5/23/2024 9:19	64702	LITI_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
5/23/2024 9:19	20403	ASHF_T2	3	0	-3	0.17	0	-0.17	0.16	0.53	0	0	0	0	0	0
5/23/2024 9:19	20401	ASHF_T2	5	2	-3	0.44	0.5	0.06	0	0	0	0	0	0	0	0
5/23/2024 9:20	20401	ASHF_T2	5	2	-3	0.44	0.5	0.06	0	0	0	0	0	0	0	0
5/23/2024 9:20	20403	ASHF_T2	3	0	-3	0.17	0	-0.17	0.16	0.53	0	0	0	0	0	0
5/23/2024 9:23	67001	STHI_T2	1	1	0	0.1	0.1	0	0.16	0.18	0	0	0	0	0	0
5/23/2024 9:23	52503	PROG_T2	0	0	0	0	0	0	-0.56	-0.51	1	1	0	900	900	0
5/23/2024 9:24	67505	WEWI_T1	0	0	0	0	0	0	0.12	0.14	1	1	0	900	900	0
5/23/2024 9:25	43105	SMIL_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
5/23/2024 9:25	43103	SMIL_T2	10	10	0	0.26	0.3	0.04	0	0	0	0	0	0	0	0
5/23/2024 9:25	67502	WEWI_T2	0	1	1	0	0	0	-0.98	-0.98	1	1	0	900	900	0
5/23/2024 9:25	43102	SMIL_T2	6	6	0	0.5	0.73	0.23	-0.62	-0.64	1	1	0	600	600	0
5/23/2024 9:25	43108	SMIL_T2	1	1	0	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
5/23/2024 9:26	43105	SMIL_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
5/23/2024 9:26	43108	SMIL_T2	1	1	0	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
5/23/2024 9:26	43102	SMIL_T2	6	6	0	0.5	0.73	0.23	-0.62	-0.64	1	1	0	600	600	0
5/23/2024 9:26	43103	SMIL_T2	10	10	0	0.26	0.3	0.04	0	0	0	0	0	0	0	0
5/23/2024 9:27	67505	WEWI_T1	0	0	0	0	0	0	0.12	0.14	1	1	0	900	900	0
5/23/2024 9:29	29402	BELT_T1	1	1	0	8.5	7.9	-0.6	0	0	0	0	0	0	0	0
5/23/2024 9:29	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/23/2024 9:29	29401	BELT_T1	28	35	7	0.15	0.15	0	0	0	1	1	0	900	900	0
5/23/2024 9:29	60801	BUCK_T1	0	0	0	0	0	0	0.06	0.18	0	0	0	0	0	0
5/23/2024 9:30	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 9:34	13501	MCMI_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
5/23/2024 9:41	11407	FARM_T1	0	362	362	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 9:41	11405	FARM_T1	0	0	0	0	0	0	-0.7	-0.72	1	1	0	1200	1200	0
5/23/2024 9:42	14603	SWHI_T1	0	0	0	0	0	0	-1.14	-1.09	1	1	0	600	600	0
5/23/2024 9:42	14604	SWHI_T1	0	75	75	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 9:42	45501	DERR_T2	0	0	0	0	0	0	0.6	0.63	2	2	0	1800	1800	0
5/23/2024 9:44	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
5/23/2024 9:44	53903	HALI_T2	2	2	0	1.4	1.25	-0.15	0	0	0	0	0	0	0	0
5/23/2024 9:44	53901	HALI_T2	1	1	0	0.9	1	0.1	-1.37	-1.31	0	0	0	0	0	0
5/23/2024 9:44	62104	ELAN_T1	0	0	0	0	0	0	0.69	0.72	2	2	0	1500	1500	0
5/23/2024 9:45	29401	BELT_T1	34	30	-4	0.16	0.15	-0.01	0	0	1	1	0	900	900	0
5/23/2024 9:45	29402	BELT_T1	1	1	0	7.7	7.9	0.2	0	0	0	0	0	0	0	0
5/23/2024 9:45	62104	ELAN_T1	0	0	0	0	0	0	0.69	0.72	2	2	0	1500	1500	0
5/23/2024 9:45	53903	HALI_T2	2	2	0	1.25	1.45	0.2	0	0	0	0	0	0	0	0
5/23/2024 9:45	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
5/23/2024 9:45	53901	HALI_T2	1	1	0	1	0.9	-0.1	-1.37	-1.31	0	0	0	0	0	0
5/23/2024 9:46	45501	DERR_T2	0	1	1	0	0	0	0.6	0.63	2	2	0	1800	1800	0
5/23/2024 9:47	63804	HEMP_T1	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
5/23/2024 9:47	63803	HEMP_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
5/23/2024 9:48	53901	HALI_T2	1	1	0	1	0.9	-0.1	-2.73	-2.63	0	0	0	0	0	0
5/23/2024 9:48	53903	HALI_T2	2	2	0	1.25	1.45	0.2	0	0	0	0	0	0	0	0
5/23/2024 9:48	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
5/23/2024 9:49	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
5/23/2024 9:49	53903	HALI_T2	2	2	0	1.25	1.45	0.2	0	0	0	0	0	0	0	0
5/23/2024 9:49	53901	HALI_T2	1	1	0	1	0.9	-0.1	-2.73	-2.63	0	0	0	0	0	0
5/23/2024 9:49	40101	HUNT_T2	0	0	0	0	0	0	-0.34	-0.31	0	0	0	0	0	0
5/23/2024 9:51	12704	MACU_T1	0	0	0	0	0	0	-1.4	-1.38	1	1	0	600	600	0
5/23/2024 9:53	67605	WARW_T1	13	9	-4	0.33	0.4	0.07	-0.85	-0.86	0	0	0	0	0	0
5/23/2024 9:53	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/23/2024 9:55	67803	WLAN_T1	0	0	0	0	0	0	-1.4	-1.4	0	0	0	0	0	0
5/23/2024 9:56	15702	TANN_T2	1	1	0	0.4	0.7	0.3	-0.32	-0.34	0	0	0	0	0	0
5/23/2024 9:56	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/23/2024 9:56	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
5/23/2024 9:56	67605	WARW_T1	13	9	-4	0.33	0.4	0.07	-0.85	-0.86	0	0	0	0	0	0
5/23/2024 9:57	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/23/2024 9:57	29402	BELT_T1	1	1	0	7.7	7.9	0.2	0	0	0	0	0	0	0	0
5/23/2024 9:57	67605	WARW_T1	13	9	-4	0.33	0.4	0.07	-0.85	-0.86	0	0	0	0	0	0
5/23/2024 9:57	29401	BELT_T1	34	30	-4	0.16	0.15	-0.01	0	0	1	1	0	900	900	0
5/23/2024 9:59	67803	WLAN_T1	0	0	0	0	0	0	-1.4	-1.4	0	0	0	0	0	0
5/23/2024 10:00	15603	NSTR_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
5/23/2024 10:00	40505	CRES_T1	3	3	0	5.13	5.07	-0.06	0.52	0.53	0	0	0	0	0	0
5/23/2024 10:00	29401	BELT_T1	26	29	3	0.13	0.14	0.01	0	0	1	1	0	900	900	0
5/23/2024 10:00	40901	JESH_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/23/2024 10:00	52503	PROG_T2	0	0	0	0	0	0	-0.46	-0.52	1	1	0	900	900	0
5/23/2024 10:00	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
5/23/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-0.86	-0.94	1	1	0	900	900	0
5/23/2024 10:00	11507	FREE_T2	0	0	0	0	0	0	0.88	0.76	0	0	0	0	0	0
5/23/2024 10:00	15702	TANN_T2	1	1	0	0.8	0.7	-0.1	-0.32	-0.34	0	0	0	0	0	0
5/23/2024 10:00	15601	NSTR_T2	3	3	0	0.77	1.17	0.4	0	0	0	0	0	0	0	0
5/23/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
5/23/2024 10:00	53902	HALI_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
5/23/2024 10:00	29402	BELT_T1	1	1	0	7.8	7.9	0.1	0	0	0	0	0	0	0	0
5/23/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.76	-0.47	4	4	0	2400	2400	0
5/23/2024 10:00	53901	HALI_T2	1	1	0	0.9	0.8	-0.1	-1.31	-1.35	0	0	0	0	0	0
5/23/2024 10:00	53903	HALI_T2	2	2	0	0.95	1.45	0.5	0	0	0	0	0	0	0	0
5/23/2024 10:06	63804	HEMP_T1	1	1	0	6.4	6.6	0.2	0	0	0	0	0	0	0	0
5/23/2024 10:06	63801	HEMP_T1	0	0	0	0	0	0	0.59	0.71	0	0	0	0	0	0
5/23/2024 10:08	54203	PENN_T1	18	18	0	0.63	0.8	0.17	0	0	0	0	0	0	0	0
5/23/2024 10:08	48602	PCH_T1	0	0	0	0	0	0	2.08	1.26	0	0	0	0	0	0
5/23/2024 10:08	54201	PENN_T1	8	8	0	0.86	0.96	0.1	-0.55	-0.61	0	0	0	0	0	0
5/23/2024 10:08	45501	DERR_T2	0	1	1	0	0.2	0.2	0.63	0.62	2	2	0	1800	1800	0
5/23/2024 10:08	45502	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 10:10	29401	BELT_T1	26	29	3	0.13	0.14	0.01	0	0	1	1	0	900	900	0
5/23/2024 10:10	29402	BELT_T1	1	1	0	7.8	7.9	0.1	0	0	0	0	0	0	0	0
5/23/2024 10:11	56803	BENV_T1	0	1	1	0	2	2	0	0	0	0	0	0	0	0
5/23/2024 10:11	57401	SPAN_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
5/23/2024 10:11	56801	BENV_T1	14	20	6	1.12	1.15	0.03	-0.46	-0.47	1	1	0	600	600	0
5/23/2024 10:11	57403	SPAN_T1	36	21	-15	0.24	0.26	0.02	0.1	0.11	0	0	0	0	0	0
5/23/2024 10:11	29402	BELT_T1	1	1	0	7.8	7.9	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/23/2024 10:11	29401	BELT_T1	26	29	3	0.13	0.14	0.01	0	0	1	1	0	900	900	0
5/23/2024 10:12	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
5/23/2024 10:12	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 10:12	15702	TANN_T2	1	1	0	0.8	0.7	-0.1	-0.34	-0.27	0	0	0	0	0	0
5/23/2024 10:13	58001	WCAR_T1	4	4	0	0.7	0.58	-0.12	0	0	0	0	0	0	0	0
5/23/2024 10:13	56802	BENV_T2	1	1	0	0.4	0.5	0.1	-0.6	-0.52	0	0	0	0	0	0
5/23/2024 10:13	58003	WCAR_T1	2	1	-1	0.7	1.2	0.5	0.42	0.44	1	1	0	600	600	0
5/23/2024 10:14	67703	WERN_T2	0	0	0	0	0	0	-1.13	-1.12	2	2	0	1800	1800	0
5/23/2024 10:14	62601	ENGL_T1	0	0	0	0	0	0	-1.12	-1.11	0	0	0	0	0	0
5/23/2024 10:14	62607	ENGL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/23/2024 10:15	56802	BENV_T2	1	1	0	0.4	1	0.6	-0.6	-0.52	0	0	0	0	0	0
5/23/2024 10:15	62102	ELAN_T1	0	0	0	0	0	0	1.06	0.85	0	0	0	0	0	0
5/23/2024 10:15	40101	HUNT_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
5/23/2024 10:15	63304	GREE_T1	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
5/23/2024 10:16	63304	GREE_T1	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
5/23/2024 10:16	64702	LITI_T2	0	0	0	0	0	0	-0.12	-0.2	0	0	0	0	0	0
5/23/2024 10:17	64702	LITI_T2	0	0	0	0	0	0	-0.12	-0.2	0	0	0	0	0	0
5/23/2024 10:18	64204	KINZ_T1	1	1	0	1.4	0.9	-0.5	0	0	0	0	0	0	0	0
5/23/2024 10:18	64203	KINZ_T1	0	0	0	0	0	0	1.18	1.19	2	2	0	900	900	0
5/23/2024 10:18	52403	GRPA_T2	3	1	-2	1.67	0.2	-1.47	0	0	0	0	0	0	0	0
5/23/2024 10:18	52402	GRPA_T2	0	5	5	0	0.66	0.66	-0.81	-0.8	0	0	0	0	0	0
5/23/2024 10:19	20401	ASHF_T2	4	1	-3	0.23	0.2	-0.03	-0.11	-0.15	0	0	0	0	0	0
5/23/2024 10:20	64702	LITI_T2	0	0	0	0	0	0	-0.12	-0.2	0	0	0	0	0	0
5/23/2024 10:23	20401	ASHF_T2	4	1	-3	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
5/23/2024 10:23	20403	ASHF_T2	0	0	0	0	0	0	0.51	0.69	0	0	0	0	0	0
5/23/2024 10:24	62607	ENGL_T1	1	1	0	0.4	0.3	-0.1	-0.84	-0.86	1	1	0	300	300	0
5/23/2024 10:24	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 10:25	13901	SEID_T1	0	0	0	0	0	0	0.33	0.48	0	0	0	0	0	0
5/23/2024 10:26	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/23/2024 10:26	50701	SMEC_T1	0	0	0	0	0	0	-1.11	-0.99	2	2	0	2400	2400	0
5/23/2024 10:26	13905	SEID_T1	0	0	0	0	0	0	-0.9	-0.88	1	1	0	1200	1200	0
5/23/2024 10:26	67804	WLAN_T1	0	0	0	0	0	0	-1.98	-1.9	0	0	0	0	0	0
5/23/2024 10:27	29401	BELT_T1	29	13	-16	0.14	0.12	-0.02	0	0	0	0	0	0	0	0
5/23/2024 10:27	67804	WLAN_T1	0	0	0	0	0	0	-0.99	-0.95	0	0	0	0	0	0
5/23/2024 10:27	29402	BELT_T1	1	1	0	7.9	8	0.1	0	0	0	0	0	0	0	0
5/23/2024 10:27	56802	BENV_T2	1	1	0	0.4	1	0.6	-0.52	-0.5	0	0	0	0	0	0
5/23/2024 10:28	29401	BELT_T1	29	13	-16	0.14	0.12	-0.02	0	0	1	1	0	900	900	0
5/23/2024 10:28	59101	WALK_T2	0	3	3	0	0.2	0.2	-0.15	-0.07	0	0	0	0	0	0
5/23/2024 10:28	29402	BELT_T1	1	1	0	7.9	8	0.1	0	0	0	0	0	0	0	0
5/23/2024 10:28	56802	BENV_T2	1	1	0	0.4	1	0.6	-0.52	-0.5	0	0	0	0	0	0
5/23/2024 10:28	59102	WALK_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/23/2024 10:28	60802	BUCK_T2	0	0	0	0	0	0	0.28	0.24	0	0	0	0	0	0
5/23/2024 10:29	56802	BENV_T2	1	1	0	0.4	1	0.6	-0.52	-0.5	0	0	0	0	0	0
5/23/2024 10:29	29402	BELT_T1	1	1	0	7.9	8	0.1	0	0	0	0	0	0	0	0
5/23/2024 10:29	29401	BELT_T1	29	13	-16	0.14	0.12	-0.02	0	0	1	1	0	900	900	0
5/23/2024 10:30	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
5/23/2024 10:30	59102	WALK_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
5/23/2024 10:30	24102	EHAZ_T1	6	1	-5	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
5/23/2024 10:30	53903	HALI_T2	2	2	0	1.4	1.4	0	0	0	0	0	0	0	0	0
5/23/2024 10:30	24105	EHAZ_T1	4	4	0	5.58	5.6	0.02	-1.72	-1.76	1	1	0	1200	1200	0
5/23/2024 10:30	53901	HALI_T2	1	1	0	0.7	0.8	0.1	-2.63	-2.59	0	0	0	0	0	0
5/23/2024 10:30	59101	WALK_T2	0	3	3	0	0.23	0.23	-0.15	-0.07	0	0	0	0	0	0
5/23/2024 10:30	67703	WERN_T2	0	0	0	0	0	0	-0.56	-0.56	1	1	0	900	900	0
5/23/2024 10:31	53903	HALI_T2	2	2	0	1.4	1.4	0	0	0	0	0	0	0	0	0
5/23/2024 10:31	59101	WALK_T2	0	3	3	0	0.23	0.23	-0.15	-0.07	0	0	0	0	0	0
5/23/2024 10:31	53901	HALI_T2	1	1	0	0.7	0.8	0.1	-1.31	-1.29	0	0	0	0	0	0
5/23/2024 10:31	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
5/23/2024 10:31	59102	WALK_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
5/23/2024 10:32	52403	GRPA_T2	0	5	5	0	0.46	0.46	0	0	0	0	0	0	0	0
5/23/2024 10:32	53903	HALI_T2	2	2	0	1.4	1.4	0	0	0	0	0	0	0	0	0
5/23/2024 10:32	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/23/2024 10:32	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
5/23/2024 10:32	52404	GRPA_T2	0	0	0	0	0	0	1.1	1.07	0	0	0	0	0	0
5/23/2024 10:32	53901	HALI_T2	1	1	0	0.7	0.8	0.1	-2.63	-2.59	0	0	0	0	0	0
5/23/2024 10:32	52402	GRPA_T2	1	5	4	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/23/2024 10:33	44301	BEAV_T2	1	2	1	0.1	0.4	0.3	0.89	0.97	2	2	0	1500	1500	0
5/23/2024 10:33	52402	GRPA_T2	1	5	4	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/23/2024 10:33	52403	GRPA_T2	0	5	5	0	0.46	0.46	0.43	0.44	0	0	0	0	0	0
5/23/2024 10:33	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/23/2024 10:34	44301	BEAV_T2	1	2	1	0.1	0.4	0.3	0.89	0.97	2	2	0	1500	1500	0
5/23/2024 10:37	46505	LOHA_T1	0	0	0	0	0	0	0.38	0.44	0	0	0	0	0	0
5/23/2024 10:37	13501	MCMI_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
5/23/2024 10:37	46502	LOHA_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/23/2024 10:39	17002	RIRO_T2	3	2	-1	0.47	0.25	-0.22	0.78	0.79	0	0	0	0	0	0
5/23/2024 10:40	55101	WERT_T1	0	0	0	0	0	0	-1.11	-1.04	3	3	0	2400	2400	0
5/23/2024 10:49	56802	BENV_T2	1	1	0	1	1.2	0.2	-0.5	-0.53	0	0	0	0	0	0
5/23/2024 10:52	52503	PROG_T2	0	0	0	0	0	0	-0.52	-0.4	1	1	0	900	900	0
5/23/2024 10:52	52502	PROG_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/23/2024 10:52	13501	MCMI_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
5/23/2024 10:53	66503	SMAN_T2	0	0	0	0	0	0	0.57	0.62	0	0	0	0	0	0
5/23/2024 10:54	15702	TANN_T2	1	1	0	0.8	0.6	-0.2	-0.3	-0.26	0	0	0	0	0	0
5/23/2024 10:54	15703	TANN_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
5/23/2024 10:57	26603	BROO_T1	1	1	0	0.4	0	-0.4	0.04	0.04	0	0	0	0	0	0
5/23/2024 10:58	57002	WHHI_T2	0	0	0	0	0	0	-0.58	-0.53	0	0	0	0	0	0
5/23/2024 10:59	62607	ENGL_T1	1	2	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/23/2024 10:59	62602	ENGL_T1	0	1	1	0	0	0	0.1	0.09	0	0	0	0	0	0
5/23/2024 11:01	26603	BROO_T1	1	0	-1	0.2	0	-0.2	0.04	0.04	0	0	0	0	0	0
5/23/2024 11:01	57403	SPAN_T1	11	11	0	0.22	0.24	0.02	0.1	0.11	0	0	0	0	0	0
5/23/2024 11:01	46803	HEPB_T2	1	1	0	0.8	0.8	0	0.53	0.51	0	0	0	0	0	0
5/23/2024 11:01	23403	HONE_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
5/23/2024 11:01	46801	HEPB_T1	0	1	1	0	0.4	0.4	-0.1	-0.02	0	0	0	0	0	0
5/23/2024 11:01	46801	HEPB_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
5/23/2024 11:02	26603	BROO_T1	1	0	-1	0.2	0	-0.2	0.04	0.04	0	0	0	0	0	0
5/23/2024 11:03	46803	HEPB_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/23/2024 11:03	46801	HEPB_T2	2	1	-1	0.1	0.1	0	0.91	0.91	0	0	0	0	0	0
5/23/2024 11:04	40101	HUNT_T2	0	0	0	0	0	0	-0.28	-0.38	0	0	0	0	0	0
5/23/2024 11:04	46502	LOHA_T1	1	0	-1	0.1	0	-0.1	-2.02	-1.99	2	2	0	2400	2400	0
5/23/2024 11:04	42903	MIDD_T2	2	2	0	1.1	1.05	-0.05	0	0	0	0	0	0	0	0
5/23/2024 11:04	42902	MIDD_T2	8	7	-1	0.31	0.29	-0.02	-0.1	-0.12	0	0	0	0	0	0
5/23/2024 11:05	42902	MIDD_T2	8	7	-1	0.31	0.29	-0.02	-0.1	-0.12	0	0	0	0	0	0
5/23/2024 11:05	42903	MIDD_T2	2	2	0	1.1	1.05	-0.05	0	0	0	0	0	0	0	0
5/23/2024 11:06	59302	MCAL_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/23/2024 11:06	59301	MCAL_T1	2	3	1	0.15	0.33	0.18	-1.24	-1.31	1	1	0	600	600	0
5/23/2024 11:07	57304	MOAL_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/23/2024 11:07	57303	MOAL_T2	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
5/23/2024 11:07	57306	MOAL_T2	0	0	0	0	0	0	-3.02	-2.99	1	1	0	1200	1200	0
5/23/2024 11:10	49803	UNIV_T1	0	0	0	0	0	0	-0.72	-0.64	0	0	0	0	0	0
5/23/2024 11:12	40201	BEGA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/23/2024 11:13	67902	WNHO_T2	0	0	0	0	0	0	0.85	0.95	2	2	0	2100	2100	0
5/23/2024 11:14	40201	BEGA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/23/2024 11:19	16902	MECK_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
5/23/2024 11:19	58402	MORO_T1	0	0	0	0	0	0	-0.84	-0.82	3	3	0	2400	2400	0
5/23/2024 11:20	16902	MECK_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
5/23/2024 11:20	58402	MORO_T1	0	0	0	0	0	0	-0.84	-0.82	3	3	0	2400	2400	0
5/23/2024 11:23	57401	SPAN_T1	0	3	3	0	0.3	0.3	-3.72	-3.57	3	3	0	1800	1800	0
5/23/2024 11:23	66701	STRA_T1	0	0	0	0	0	0	0.11	0.24	1	1	0	600	600	0
5/23/2024 11:23	42802	SELI_T1	0	0	0	0	0	0	-1.65	-1.65	1	1	0	900	900	0
5/23/2024 11:23	57403	SPAN_T1	9	10	1	0.16	0.24	0.08	0	0	0	0	0	0	0	0
5/23/2024 11:24	57401	SPAN_T1	0	3	3	0	0.3	0.3	-1.24	-1.19	1	1	0	600	600	0
5/23/2024 11:24	57403	SPAN_T1	9	10	1	0.16	0.24	0.08	0	0	0	0	0	0	0	0
5/23/2024 11:24	41902	REED_T1	0	0	0	0	0	0	1.22	1.25	0	0	0	0	0	0
5/23/2024 11:25	57401	SPAN_T1	0	3	3	0	0.3	0.3	-3.72	-3.57	3	3	0	1800	1800	0
5/23/2024 11:25	45902	AUBU_T1	0	0	0	0	0	0	-0.49	-0.42	1	1	0	600	600	0
5/23/2024 11:25	42802	SELI_T1	0	0	0	0	0	0	-1.65	-1.59	1	1	0	900	900	0
5/23/2024 11:25	57403	SPAN_T1	9	10	1	0.16	0.24	0.08	0	0	0	0	0	0	0	0
5/23/2024 11:25	43301	WATS_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/23/2024 11:25	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 11:25	41902	REED_T1	0	0	0	0	0	0	1.22	1.25	0	0	0	0	0	0
5/23/2024 11:26	42802	SELI_T1	0	0	0	0	0	0	-1.65	-1.59	1	1	0	900	900	0
5/23/2024 11:26	43301	WATS_T2	1	1	0	0.2	0.2	0	0	0	1	1	0	900	900	0
5/23/2024 11:27	48302	ORWI_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
5/23/2024 11:27	58001	WCAR_T1	4	4	0	0.25	0.35	0.1	1.01	1.1	0	0	0	0	0	0
5/23/2024 11:27	58003	WCAR_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
5/23/2024 11:28	45901	AUBU_T1	0	0	0	0	0	0	1.72	1.75	0	0	0	0	0	0
5/23/2024 11:29	45902	AUBU_T1	0	0	0	0	0	0	-0.49	-0.42	1	1	0	600	600	0
5/23/2024 11:30	56802	BENV_T2	1	7	6	1.2	0.34	-0.86	-0.88	-0.79	0	0	0	0	0	0
5/23/2024 11:30	44502	HAMI_T2	1	1	0	1.9	1.9	0	-0.6	-0.62	0	0	0	0	0	0
5/23/2024 11:31	56802	BENV_T2	1	7	6	1.2	0.34	-0.86	-0.88	-0.79	0	0	0	0	0	0
5/23/2024 11:31	45501	DERR_T2	1	1	0	0.4	0.5	0.1	0.78	0.74	2	2	0	1800	1800	0
5/23/2024 11:33	45501	DERR_T2	1	1	0	0.4	0.5	0.1	0.78	0.74	2	2	0	1800	1800	0
5/23/2024 11:33	42903	MIDD_T2	2	2	0	1.05	1.15	0.1	0	0	0	0	0	0	0	0
5/23/2024 11:33	42902	MIDD_T2	6	2	-4	0.23	0.2	-0.03	-0.13	-0.18	0	0	0	0	0	0
5/23/2024 11:34	64203	KINZ_T1	0	0	0	0	0	0	1.3	1.35	2	1	-1	900	600	-300
5/23/2024 11:34	58402	MORO_T1	0	0	0	0	0	0	-0.82	-0.82	3	3	0	2400	2400	0
5/23/2024 11:34	64201	KINZ_T1	0	0	0	0	0	0	-0.3	-0.16	4	4	0	2100	2100	0
5/23/2024 11:34	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/23/2024 11:34	57304	MOAL_T2	1	1	0	0.6	0.5	-0.1	-0.33	-0.31	0	0	0	0	0	0
5/23/2024 11:34	57303	MOAL_T2	1	1	0	6.9	7	0.1	0	0	0	0	0	0	0	0
5/23/2024 11:34	64204	KINZ_T1	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
5/23/2024 11:35	58402	MORO_T1	0	0	0	0	0	0	-0.82	-0.82	3	3	0	2400	2400	0
5/23/2024 11:35	64204	KINZ_T1	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
5/23/2024 11:35	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/23/2024 11:35	64203	KINZ_T1	0	0	0	0	0	0	2.61	2.71	4	2	-2	1800	1200	-600
5/23/2024 11:36	45702	LIND_T2	1	2	1	1.3	1	-0.3	-0.34	-0.37	0	0	0	0	0	0
5/23/2024 11:36	64203	KINZ_T1	0	0	0	0	0	0	1.3	1.35	2	1	-1	900	600	-300
5/23/2024 11:36	64204	KINZ_T1	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
5/23/2024 11:36	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/23/2024 11:37	45402	WBLO_T2	323	3	-320	1.51	0.47	-1.04	-0.93	-1.72	0	0	0	0	0	0
5/23/2024 11:40	45702	LIND_T2	1	2	1	1.3	1	-0.3	-0.37	-0.24	0	0	0	0	0	0
5/23/2024 11:40	43104	SMIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/23/2024 11:40	43101	SMIL_T2	1	1	0	0.4	0.8	0.4	-0.58	-0.49	0	0	0	0	0	0
5/23/2024 11:40	43105	SMIL_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
5/23/2024 11:40	43102	SMIL_T2	4	4	0	0.38	0.33	-0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/23/2024 11:40	43302	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/23/2024 11:40	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/23/2024 11:40	43103	SMIL_T2	8	10	2	0.24	0.28	0.04	0	0	0	0	0	0	0	0
5/23/2024 11:41	14801	TREI_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
5/23/2024 11:41	29402	BELT_T1	1	2	1	8.3	4.1	-4.2	0	0	0	0	0	0	0	0
5/23/2024 11:41	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	1	1	0	900	900	0
5/23/2024 11:41	29401	BELT_T1	32	4	-28	0.14	0.2	0.06	0	0	3	3	0	2700	2700	0
5/23/2024 11:41	14802	TREI_T2	0	0	0	0	0	0	0.61	0.64	0	0	0	0	0	0
5/23/2024 11:45	53902	HALI_T2	3	3	0	1.97	1.83	-0.14	-0.71	-0.7	0	0	0	0	0	0
5/23/2024 11:45	53901	HALI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/23/2024 11:45	53601	DALM_T2	1	1	0	0.7	1.2	0.5	-0.14	-0.28	1	1	0	900	900	0
5/23/2024 11:45	53903	HALI_T2	3	3	0	0.73	1	0.27	0	0	0	0	0	0	0	0
5/23/2024 11:46	21206	ECAR_T2	6	6	0	1.45	7	5.55	0.84	0.92	0	0	0	0	0	0
5/23/2024 11:46	62605	ENGL_T1	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
5/23/2024 11:46	53902	HALI_T2	3	3	0	1.97	1.83	-0.14	0	0	0	0	0	0	0	0
5/23/2024 11:46	53903	HALI_T2	3	3	0	0.73	1	0.27	-0.16	-0.16	0	0	0	0	0	0
5/23/2024 11:46	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 11:46	53901	HALI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/23/2024 11:46	62607	ENGL_T1	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
5/23/2024 11:47	62605	ENGL_T1	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
5/23/2024 11:47	62607	ENGL_T1	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
5/23/2024 11:48	44301	BEAV_T2	3	2	-1	0.23	0.3	0.07	0.42	0.29	2	2	0	1500	1500	0
5/23/2024 11:49	53902	HALI_T2	3	3	0	1.97	1.83	-0.14	0	0	0	0	0	0	0	0
5/23/2024 11:49	62607	ENGL_T1	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
5/23/2024 11:49	53903	HALI_T2	3	3	0	0.73	1	0.27	-0.08	-0.08	0	0	0	0	0	0
5/23/2024 11:49	62605	ENGL_T1	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
5/23/2024 11:49	53901	HALI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/23/2024 11:50	52402	GRPA_T2	11	7	-4	0.59	0.66	0.07	-0.86	-0.88	0	0	0	0	0	0
5/23/2024 11:50	52401	GRPA_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/23/2024 11:50	52403	GRPA_T2	1	4	3	0.2	0.33	0.13	0	0	0	0	0	0	0	0
5/23/2024 11:50	44301	BEAV_T2	3	2	-1	0.23	0.3	0.07	0.42	0.29	2	2	0	1500	1500	0
5/23/2024 11:50	53902	HALI_T2	3	3	0	1.97	1.83	-0.14	0	0	0	0	0	0	0	0
5/23/2024 11:50	53903	HALI_T2	3	3	0	0.73	1	0.27	-0.08	-0.08	0	0	0	0	0	0
5/23/2024 11:50	53901	HALI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/23/2024 11:50	22404	MORG_T2	0	0	0	0	0	0	-0.81	-0.79	0	0	0	0	0	0
5/23/2024 11:51	43201	MVIL_T2	0	1	1	0	0.2	0.2	-0.32	-0.33	0	0	0	0	0	0
5/23/2024 11:51	52402	GRPA_T2	11	7	-4	0.59	0.66	0.07	-0.86	-0.88	0	0	0	0	0	0
5/23/2024 11:51	52401	GRPA_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/23/2024 11:51	52403	GRPA_T2	1	4	3	0.2	0.33	0.13	0	0	0	0	0	0	0	0
5/23/2024 11:51	64801	MONE_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
5/23/2024 11:51	64802	MONE_T2	18	22	4	0.12	0.13	0.01	0.33	0.32	0	0	0	0	0	0
5/23/2024 11:54	42201	SHEN_T2	0	0	0	0	0	0	-0.03	-0.07	1	1	0	600	600	0
5/23/2024 11:56	42201	SHEN_T2	0	0	0	0	0	0	-0.03	-0.07	1	1	0	600	600	0
5/23/2024 11:57	40502	CRES_T2	0	62	62	0	0	0	-0.58	-0.13	0	0	0	0	0	0
5/23/2024 11:57	57401	SPAN_T1	1	1	0	0.3	0.3	0	-1.15	-1.07	1	1	0	600	600	0
5/23/2024 11:57	43301	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/23/2024 11:57	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 11:57	57403	SPAN_T1	7	1	-6	0.2	0.2	0	0	0	0	0	0	0	0	0
5/23/2024 11:58	29402	BELT_T1	1	2	1	7.9	4.1	-3.8	0	0	0	0	0	0	0	0
5/23/2024 11:58	29401	BELT_T1	2	5	3	0.2	0.28	0.08	0	0	0	0	0	0	0	0
5/23/2024 12:00	56802	BENV_T2	6	2	-4	0.37	0.55	0.18	-0.43	-0.36	0	0	0	0	0	0
5/23/2024 12:01	56801	BENV_T1	20	16	-4	0.78	0.78	0	-0.28	-0.31	1	1	0	600	600	0
5/23/2024 12:01	40902	JESH_T1	0	0	0	0	0	0	-0.29	-1.56	2	3	1	1200	1800	600
5/23/2024 12:01	56803	BENV_T1	2	1	-1	0.25	0.8	0.55	0	0	0	0	0	0	0	0
5/23/2024 12:01	40901	JESH_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
5/23/2024 12:02	53901	HALI_T2	1	2	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
5/23/2024 12:02	56801	BENV_T1	20	16	-4	0.78	0.78	0	-0.28	-0.31	1	1	0	600	600	0
5/23/2024 12:02	56803	BENV_T1	2	1	-1	0.25	0.8	0.55	0	0	0	0	0	0	0	0
5/23/2024 12:02	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/23/2024 12:02	53902	HALI_T2	3	5	2	1.7	1.64	-0.06	0	0	0	0	0	0	0	0
5/23/2024 12:02	23202	HIRU_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
5/23/2024 12:02	23203	HIRU_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/23/2024 12:02	53903	HALI_T2	2	18	16	1.15	0.7	-0.45	-0.08	-0.07	0	0	0	0	0	0
5/23/2024 12:03	42903	MIDD_T2	2	2	0	1.15	0.7	-0.45	0	0	0	0	0	0	0	0
5/23/2024 12:03	23203	HIRU_T2	0	2	2	0	0.25	0.25	0.15	0.15	0	0	0	0	0	0
5/23/2024 12:03	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/23/2024 12:03	42902	MIDD_T2	1	1	0	0.1	0.1	0	-0.08	-0.13	0	0	0	0	0	0
5/23/2024 12:03	17802	GILB_T1	0	9	9	0	0.5	0.5	0.24	0.26	0	0	0	0	0	0
5/23/2024 12:04	56801	BENV_T1	20	16	-4	0.78	0.78	0	-0.28	-0.31	1	1	0	600	600	0
5/23/2024 12:04	56803	BENV_T1	2	1	-1	0.25	0.8	0.55	0	0	0	0	0	0	0	0
5/23/2024 12:05	65001	NEFF_T2	0	0	0	0	0	0	-0.03	0.06	1	1	0	1200	1200	0
5/23/2024 12:05	42903	MIDD_T2	2	2	0	1.15	0.7	-0.45	0	0	0	0	0	0	0	0
5/23/2024 12:05	42902	MIDD_T2	1	1	0	0.1	0.1	0	-0.08	-0.13	0	0	0	0	0	0
5/23/2024 12:06	42903	MIDD_T2	2	2	0	1.15	0.7	-0.45	0	0	0	0	0	0	0	0
5/23/2024 12:06	42902	MIDD_T2	1	1	0	0.1	0.1	0	-0.08	-0.13	0	0	0	0	0	0
5/23/2024 12:06	65802	RTWN_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
5/23/2024 12:08	42902	MIDD_T2	1	1	0	0.1	0.1	0	-0.08	-0.13	0	0	0	0	0	0
5/23/2024 12:08	57403	SPAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/23/2024 12:08	42903	MIDD_T2	2	2	0	1.15	0.7	-0.45	0	0	0	0	0	0	0	0
5/23/2024 12:08	57401	SPAN_T1	1	0	-1	0.3	0	-0.3	-1.07	-1.08	1	1	0	600	600	0
5/23/2024 12:08	66703	STRA_T1	0	0	0	0	0	0	0.2	0.34	0	0	0	0	0	0
5/23/2024 12:09	67502	WEWI_T2	1	1	0	0.5	0.2	-0.3	-1.01	-1.01	1	1	0	900	900	0
5/23/2024 12:10	16301	ALPA_T1	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
5/23/2024 12:10	14601	SWHI_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 12:10	14603	SWHI_T1	1	5	4	0.2	0.38	0.18	-1.07	-1.06	1	1	0	600	600	0
5/23/2024 12:10	45402	WBLO_T2	2	4	2	0.45	0.33	-0.12	-1.37	-1.35	0	0	0	0	0	0
5/23/2024 12:10	67505	WEWI_T1	0	0	0	0	0	0	0.21	0.15	1	1	0	900	900	0
5/23/2024 12:10	67501	WEWI_T1	3	2	-1	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
5/23/2024 12:11	65802	RTWN_T2	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
5/23/2024 12:12	57403	SPAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/23/2024 12:12	40901	JESH_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
5/23/2024 12:12	67505	WEWI_T1	0	0	0	0	0	0	0.21	0.15	1	1	0	900	900	0
5/23/2024 12:12	67501	WEWI_T1	3	2	-1	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
5/23/2024 12:12	40302	TAMA_T3	0	0	0	0	0	0	-1.16	-1.1	1	1	0	1200	1200	0
5/23/2024 12:12	57401	SPAN_T1	1	0	-1	0.3	0	-0.3	-1.07	-1.08	1	1	0	600	600	0
5/23/2024 12:12	14801	TREI_T2	1	1	0	0.8	1.3	0.5	0.61	0.63	0	0	0	0	0	0
5/23/2024 12:12	40902	JESH_T1	0	0	0	0	0	0	-1.56	-1.03	3	2	-1	1800	1200	-600
5/23/2024 12:12	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 12:13	57004	WHHI_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
5/23/2024 12:13	57002	WHHI_T2	0	1	1	0	9.4	9.4	0	0	0	0	0	0	0	0
5/23/2024 12:16	17804	GILB_T2	1	2	1	0.1	0.45	0.35	-0.54	-0.53	0	0	0	0	0	0
5/23/2024 12:16	17805	GILB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/23/2024 12:18	45502	DERR_T2	0	1	1	0	0	0	0.31	0.33	1	1	0	300	300	0
5/23/2024 12:18	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 12:18	45501	DERR_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/23/2024 12:18	46506	LOHA_T1	1	1	0	0.2	0.7	0.5	-0.28	-0.29	0	0	0	0	0	0
5/23/2024 12:20	25502	MADI_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/23/2024 12:20	25501	MADI_T1	2	2	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
5/23/2024 12:20	25503	MADI_T1	30	41	11	0.17	0.16	-0.01	-0.83	-0.84	0	0	0	0	0	0
5/23/2024 12:21	44301	BEAV_T2	2	2	0	0.3	0.1	-0.2	-0.49	-0.48	2	2	0	1500	1500	0
5/23/2024 12:22	20401	ASHF_T2	1	2	1	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
5/23/2024 12:22	20403	ASHF_T2	3	7	4	0.37	0.48	0.11	1.26	1.35	0	0	0	0	0	0
5/23/2024 12:22	46506	LOHA_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
5/23/2024 12:22	46501	LOHA_T1	0	1	1	0	0	0	0.45	0.42	1	1	0	1200	1200	0
5/23/2024 12:23	14403	SSLA_T1	0	0	0	0	0	0	1.05	1.07	0	0	0	0	0	0
5/23/2024 12:23	42802	SELI_T1	0	0	0	0	0	0	-1.49	-1.57	1	1	0	900	900	0
5/23/2024 12:23	14404	SSLA_T1	1	2	1	5.2	2.55	-2.65	0	0	0	0	0	0	0	0
5/23/2024 12:23	20403	ASHF_T2	3	7	4	0.37	0.48	0.11	1.35	1.64	0	0	0	0	0	0
5/23/2024 12:23	14401	SSLA_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/23/2024 12:23	14402	SSLA_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/23/2024 12:23	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/23/2024 12:23	20401	ASHF_T2	1	2	1	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
5/23/2024 12:23	67605	WARW_T1	14	17	3	0.37	0.3	-0.07	-0.9	-0.88	0	0	0	0	0	0
5/23/2024 12:24	42802	SELI_T1	0	0	0	0	0	0	-1.57	-1.44	1	1	0	900	900	0
5/23/2024 12:24	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/23/2024 12:24	67605	WARW_T1	14	17	3	0.37	0.3	-0.07	-1.81	-1.76	0	0	0	0	0	0
5/23/2024 12:25	43105	SMIL_T2	2	2	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/23/2024 12:25	43101	SMIL_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/23/2024 12:25	43103	SMIL_T2	4	5	1	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
5/23/2024 12:25	67603	WARW_T1	0	1	1	0	0.3	0.3	0.13	0.16	0	0	0	0	0	0
5/23/2024 12:25	43104	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/23/2024 12:25	67605	WARW_T1	14	17	3	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
5/23/2024 12:25	43102	SMIL_T2	3	2	-1	0.3	0.1	-0.2	-0.5	-0.5	1	1	0	600	600	0
5/23/2024 12:27	24801	VALM_T1	1	1	0	0.2	0.3	0.1	-0.19	-0.19	0	0	0	0	0	0
5/23/2024 12:28	43801	SWIL_T1	1	2	1	5.6	2.8	-2.8	0	0	0	0	0	0	0	0
5/23/2024 12:28	67605	WARW_T1	14	17	3	0.37	0.3	-0.07	-0.9	-0.88	0	0	0	0	0	0
5/23/2024 12:28	43802	SWIL_T1	0	0	0	0	0	0	0.1	0.1	1	1	0	600	600	0
5/23/2024 12:28	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/23/2024 12:28	45502	DERR_T2	0	1	1	0	0	0	0.33	0.31	1	1	0	300	300	0
5/23/2024 12:28	45501	DERR_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/23/2024 12:29	67703	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/23/2024 12:29	67702	WERN_T2	0	1	1	0	0.3	0.3	0.04	0.09	0	0	0	0	0	0
5/23/2024 12:30	67702	WERN_T2	0	1	1	0	0.3	0.3	0.08	0.18	0	0	0	0	0	0
5/23/2024 12:30	67703	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/23/2024 12:32	40101	HUNT_T2	1	2	1	0.4	0.1	-0.3	-0.36	-0.34	0	0	0	0	0	0
5/23/2024 12:33	64404	LAND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/23/2024 12:33	64402	LAND_T2	0	0	0	0	0	0	-0.25	-0.17	1	1	0	600	600	0
5/23/2024 12:33	67703	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/23/2024 12:33	67702	WERN_T2	0	1	1	0	0.3	0.3	0.04	0.09	0	0	0	0	0	0
5/23/2024 12:34	45702	LIND_T2	3	2	-1	1.2	0.8	-0.4	-0.18	-0.2	0	0	0	0	0	0
5/23/2024 12:34	42903	MIDD_T2	2	1	-1	0.5	0.1	-0.4	1.48	0.91	0	1	1	0	1200	1200
5/23/2024 12:34	40101	HUNT_T2	1	2	1	0.4	0.1	-0.3	-0.72	-0.68	0	0	0	0	0	0
5/23/2024 12:36	13501	MCMI_T1	0	0	0	0	0	0	0.18	0.22	0	0	0	0	0	0
5/23/2024 12:36	55002	NEWP_T1	8	7	-1	0.76	0.74	-0.02	-0.11	-0.09	0	0	0	0	0	0
5/23/2024 12:36	13502	MCMI_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
5/23/2024 12:36	58402	MORO_T1	0	0	0	0	0	0	-0.81	-0.83	3	3	0	2400	2400	0
5/23/2024 12:37	55002	NEWP_T1	8	7	-1	0.76	0.74	-0.02	-0.22	-0.18	0	0	0	0	0	0
5/23/2024 12:38	55002	NEWP_T1	8	7	-1	0.76	0.74	-0.02	-0.09	-0.11	0	0	0	0	0	0
5/23/2024 12:39	46301	ROHR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/23/2024 12:39	46302	ROHR_T1	5	5	0	1.1	1.1	0	0.21	0.21	0	0	0	0	0	0
5/23/2024 12:39	13503	MCMI_T2	2	1	-1	0.25	1.1	0.85	-0.01	-0.01	0	0	0	0	0	0
5/23/2024 12:39	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/23/2024 12:39	67605	WARW_T1	15	14	-1	0.25	0.32	0.07	-0.88	-0.81	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/23/2024 12:40	67605	WARW_T1	15	14	-1	0.25	0.32	0.07	-0.88	-0.81	0	0	0	0	0	0
5/23/2024 12:40	67702	WERN_T2	0	1	1	0	0.3	0.3	0.09	0.07	0	0	0	0	0	0
5/23/2024 12:40	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/23/2024 12:40	67703	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/23/2024 12:41	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/23/2024 12:41	67605	WARW_T1	15	14	-1	0.25	0.32	0.07	-0.88	-0.81	0	0	0	0	0	0
5/23/2024 12:42	29402	BELT_T1	1	2	1	8.1	4.1	-4	0	0	0	0	0	0	0	0
5/23/2024 12:42	29401	BELT_T1	3	5	2	0.13	0.36	0.23	0	0	0	0	0	0	0	0
5/23/2024 12:43	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 12:43	43101	SMIL_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/23/2024 12:43	43103	SMIL_T2	4	1	-3	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/23/2024 12:43	43105	SMIL_T2	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
5/23/2024 12:43	67601	WARW_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
5/23/2024 12:43	43102	SMIL_T2	2	0	-2	0.1	0	-0.1	-0.5	-0.53	1	1	0	600	600	0
5/23/2024 12:43	24102	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 12:43	60502	NMAN_T2	0	0	0	0	0	0	0.21	0.4	0	0	0	0	0	0
5/23/2024 12:43	24105	EHAZ_T1	4	4	0	5.4	5.48	0.08	0	0	0	0	0	0	0	0
5/23/2024 12:43	24104	EHAZ_T1	0	0	0	0	0	0	-0.69	-0.7	1	1	0	1200	1200	0
5/23/2024 12:43	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/23/2024 12:43	67605	WARW_T1	15	14	-1	0.25	0.32	0.07	-0.88	-0.81	0	0	0	0	0	0
5/23/2024 12:43	24101	EHAZ_T1	9	2	-7	0.71	0.4	-0.31	0	0	0	0	0	0	0	0
5/23/2024 12:43	42701	AUGU_T1	1	1	0	1.6	1	-0.6	0	0	2	2	0	1800	1800	0
5/23/2024 12:43	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 12:43	60504	NMAN_T2	2	2	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
5/23/2024 12:43	60501	NMAN_T2	5	3	-2	3.32	5.13	1.81	0	0	0	0	0	0	0	0
5/23/2024 12:44	63802	HEMP_T1	0	0	0	0	0	0	0.53	0.47	0	0	0	0	0	0
5/23/2024 12:44	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 12:44	29402	BELT_T1	1	2	1	8.1	4.1	-4	0	0	0	0	0	0	0	0
5/23/2024 12:44	29401	BELT_T1	3	5	2	0.13	0.36	0.23	0	0	1	1	0	900	900	0
5/23/2024 12:44	63804	HEMP_T1	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
5/23/2024 12:45	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 12:45	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/23/2024 12:47	61803	EELI_T2	0	0	0	0	0	0	0.64	0.66	1	1	0	600	600	0
5/23/2024 12:47	63804	HEMP_T1	1	1	0	6.8	6.9	0.1	-0.26	-0.27	0	0	0	0	0	0
5/23/2024 12:47	61801	EELI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/23/2024 12:47	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/23/2024 12:48	53801	MBRG_T2	5	5	0	0.78	0.58	-0.2	0	0	0	0	0	0	0	0
5/23/2024 12:48	53802	MBRG_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
5/23/2024 12:48	53803	MBRG_T2	1	1	0	0.1	0.2	0.1	0.08	0.08	0	0	0	0	0	0
5/23/2024 12:48	40101	HUNT_T2	2	1	-1	0.3	0	-0.3	-0.34	-0.31	0	0	0	0	0	0
5/23/2024 12:49	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 12:49	59301	MCAL_T1	6	1	-5	0.35	0.4	0.05	0	0	0	0	0	0	0	0
5/23/2024 12:49	59302	MCAL_T1	0	1	1	0	0	0	-0.25	-0.23	1	1	0	600	600	0
5/23/2024 12:49	53803	MBRG_T2	1	1	0	0.1	0.2	0.1	0.08	0.08	0	0	0	0	0	0
5/23/2024 12:49	53801	MBRG_T2	5	5	0	0.78	0.58	-0.2	0	0	0	0	0	0	0	0
5/23/2024 12:50	53801	MBRG_T2	5	5	0	0.78	0.58	-0.2	0	0	0	0	0	0	0	0
5/23/2024 12:50	28805	LAKE_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
5/23/2024 12:50	53803	MBRG_T2	1	1	0	0.1	0.2	0.1	0.08	0.08	0	0	0	0	0	0
5/23/2024 12:52	55002	NEWP_T1	7	8	1	0.46	0.63	0.17	-0.09	-0.11	0	0	0	0	0	0
5/23/2024 12:53	65004	NEFF_T2	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
5/23/2024 12:53	65003	NEFF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/23/2024 12:53	54601	SUMM_T2	0	0	0	0	0	0	-1.4	-1.35	2	2	0	2100	2100	0
5/23/2024 12:54	54601	SUMM_T2	0	0	0	0	0	0	-1.4	-1.35	2	2	0	2100	2100	0
5/23/2024 12:54	67603	WARW_T1	1	1	0	0.3	0.9	0.6	0.22	0.22	0	0	0	0	0	0
5/23/2024 12:54	67605	WARW_T1	14	2	-12	0.32	0.85	0.53	0	0	0	0	0	0	0	0
5/23/2024 12:55	67605	WARW_T1	14	2	-12	0.32	0.85	0.53	0	0	0	0	0	0	0	0
5/23/2024 12:55	67603	WARW_T1	1	1	0	0.3	0.9	0.6	0.44	0.44	0	0	0	0	0	0
5/23/2024 12:55	54601	SUMM_T2	0	0	0	0	0	0	-4.19	-4.06	6	6	0	6300	6300	0
5/23/2024 12:56	67603	WARW_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
5/23/2024 12:56	67604	WARW_T1	0	0	0	0	0	0	0.32	0.36	0	0	0	0	0	0
5/23/2024 12:56	67605	WARW_T1	14	2	-12	0.32	0.85	0.53	-0.81	-0.76	0	0	0	0	0	0
5/23/2024 12:57	60901	DONG_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/23/2024 12:57	60902	DONG_T2	0	0	0	0	0	0	1.15	1.14	0	0	0	0	0	0
5/23/2024 12:58	67603	WARW_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
5/23/2024 12:58	67604	WARW_T1	0	0	0	0	0	0	0.32	0.36	0	0	0	0	0	0
5/23/2024 12:58	67605	WARW_T1	14	2	-12	0.32	0.85	0.53	0	0	0	0	0	0	0	0
5/23/2024 12:59	54506	ENOL_T2	0	0	0	0	0	0	0.95	0.95	0	0	0	0	0	0
5/23/2024 12:59	54504	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 13:00	61702	ELIZ_T2	3	3	0	0.57	0.7	0.13	-2.14	-2.14	2	2	0	1500	1500	0
5/23/2024 13:00	54505	ENOL_T2	0	0	0	0	0	0	-1.02	-0.99	1	1	0	600	600	0
5/23/2024 13:02	67605	WARW_T1	1	2	1	1.4	0.85	-0.55	-0.81	-0.76	0	0	0	0	0	0
5/23/2024 13:02	67603	WARW_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
5/23/2024 13:03	65501	MOJO_T1	0	0	0	0	0	0	-1.65	-1.69	2	2	0	1800	1800	0
5/23/2024 13:06	29402	BELT_T1	2	2	0	3.65	3.85	0.2	0	0	0	0	0	0	0	0
5/23/2024 13:06	29401	BELT_T1	5	4	-1	0.3	0.25	-0.05	0	0	1	1	0	900	900	0
5/23/2024 13:07	65904	SAKR_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/23/2024 13:07	64903	MILL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/23/2024 13:07	65901	SAKR_T2	1	1	0	7.3	7.4	0.1	-0.53	-0.39	1	1	0	900	900	0
5/23/2024 13:07	64902	MILL_T2	0	0	0	0	0	0	-0.44	-0.38	2	2	0	1800	1800	0
5/23/2024 13:09	43102	SMIL_T2	0	0	0	0	0	0	-0.51	-0.46	1	1	0	600	600	0
5/23/2024 13:09	43108	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/23/2024 13:09	43101	SMIL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/23/2024 13:09	43103	SMIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/23/2024 13:09	43105	SMIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/23/2024 13:10	44601	SALE_T2	0	0	0	0	0	0	0.38	0.42	2	2	0	1200	1200	0
5/23/2024 13:12	43402	BENT_T1	1	5	4	0.5	0.45	-0.05	-1.14	-1.14	2	2	0	1800	1800	0
5/23/2024 13:13	16102	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/23/2024 13:13	43101	SMIL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/23/2024 13:13	16101	BING_T2	0	0	0	0	0	0	0.67	0.7	0	0	0	0	0	0
5/23/2024 13:13	43108	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/23/2024 13:13	43105	SMIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/23/2024 13:13	16103	BING_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
5/23/2024 13:13	60101	COCA_T1	0	1	1	0	0.1	0.1	1.28	1.38	0	0	0	0	0	0
5/23/2024 13:13	43103	SMIL_T2	1	0	-1	0.3	0	-0.3	-0.55	-0.58	0	0	0	0	0	0
5/23/2024 13:14	43402	BENT_T1	1	5	4	0.5	0.45	-0.05	-0.57	-0.57	1	1	0	900	900	0
5/23/2024 13:14	67702	WERN_T2	1	0	0	0.2	0.1	-0.1	0.11	0.11	0	0	0	0	0	0
5/23/2024 13:14	67605	WARW_T1	1	2	1	1.4	0.85	-0.55	-0.76	-0.77	0	0	0	0	0	0
5/23/2024 13:14	60101	COCA_T1	0	1	1	0	0.1	0.1	1.28	1.38	0	0	0	0	0	0
5/23/2024 13:14	67603	WARW_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
5/23/2024 13:15	16101	BING_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 13:15	16102	BING_T2	1	6	5	0.38	0.5	-0.12	-0.69	-0.6	1	1	0	1200	1200	0
5/23/2024 13:15	60103	COCA_T2	0	0	0	0	0	0	-1	-0.97	3	3	0	3300	3300	0
5/23/2024 13:15	16103	BING_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
5/23/2024 13:16	60102	COCA_T1	0	0	0	0	0	0	-0.42	-0.18	3	3	0	2100	2100	0
5/23/2024 13:16	11601	CEAL_T1	1	3	2	0.4	0.7	0.3	0	0	1	1	0	1200	1200	0
5/23/2024 13:16	60101	COCA_T1	1	0	-1	0.1	0	-0.1	0.64	0.69	0	0	0	0	0	0
5/23/2024 13:17	11103	EGYP_T1	1	2	1	0.2	0.25	0.05	-0.66	-0.69	0	0	0	0	0	0
5/23/2024 13:17	11102	EGYP_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/23/2024 13:17	58003	WCAR_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
5/23/2024 13:17	11601	CEAL_T1	1	3	2	0.4	0.7	0.3	0	0	1	1	0	1200	1200	0
5/23/2024 13:17	58001	WCAR_T1	0	0	0	0	0	0	1.17	1.21	0	0	0	0	0	0
5/23/2024 13:17	11104	EGYP_T1	5	5	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/23/2024 13:18	65205	PRIN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/23/2024 13:20	25402	LAHA_T2	2	4	2	0.15	0.13	-0.02	-0.73	-0.73	0	0	0	0	0	0
5/23/2024 13:20	40602	PIGR_T1	1	1	0	0.4	0.4	0	-0.93	-0.86	1	1	0	600	600	0
5/23/2024 13:20	40601	PIGR_T1	2	1	-1	0.55	0.6	0.05	0	0	0	0	0	0	0	0
5/23/2024 13:21	13503	MCMI_T2	1	2	1	1	0.6	-0.4	-0.02	-0.02	0	0	0	0	0	0
5/23/2024 13:21	51004	NHAR_T1	1	1	0	6.5	6.6	0.1	-1.29	-1.31	0	0	0	0	0	0
5/23/2024 13:21	51002	NHAR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/23/2024 13:23	67201	TEHI_T1	0	8	8	0	0.4	0.4	1.43	1.63	1	1	0	600	600	0
5/23/2024 13:23	67203	TEHI_T1	1	4	3	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
5/23/2024 13:24	67602	WARW_T2	0	0	0	0	0	0	1.64	1.21	1	1	0	300	300	0
5/23/2024 13:26	49803	UNIV_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
5/23/2024 13:27	67602	WARW_T2	0	0	0	0	0	0	1.64	1.21	1	1	0	300	300	0
5/23/2024 13:27	45902	AUBU_T1	0	0	0	0	0	0	-0.45	-0.48	1	1	0	600	600	0
5/23/2024 13:29	67803	WLAN_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
5/23/2024 13:29	45902	AUBU_T1	0	0	0	0	0	0	-0.45	-0.48	1	1	0	600	600	0
5/23/2024 13:30	45902	AUBU_T1	0	1	1	0	0.2	0.2	-0.45	-0.48	1	1	0	600	600	0
5/23/2024 13:31	62602	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/23/2024 13:31	62607	ENGL_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
5/23/2024 13:31	63306	GREE_T1	1	0	-1	0.1	0	-0.1	-1.76	-1.71	1	1	0	900	900	0
5/23/2024 13:31	45501	DERR_T2	1	1	0	0.6	0.7	0.1	0.78	0.73	2	2	0	1800	1800	0
5/23/2024 13:31	63303	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/23/2024 13:31	62606	ENGL_T1	0	0	0	0	0	0	-0.49	-0.44	2	2	0	1500	1500	0
5/23/2024 13:33	47802	MOCA_T2	0	1	1	0	0.3	0.3	-0.85	-0.83	0	0	0	0	0	0
5/23/2024 13:35	12701	MACU_T1	0	0	0	0	0	0	0.42	0.5	0	0	0	0	0	0
5/23/2024 13:35	64902	MILL_T2	0	0	0	0	0	0	-0.19	-0.15	1	1	0	900	900	0
5/23/2024 13:35	64903	MILL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/23/2024 13:36	12701	MACU_T1	0	0	0	0	0	0	0.21	0.25	0	0	0	0	0	0
5/23/2024 13:36	64802	MONE_T2	46	17	-29	0.2	0.34	0.14	0.37	0.42	0	0	0	0	0	0
5/23/2024 13:36	64801	MONE_T2	8	3	-5	0.21	0.27	0.06	0	0	0	0	0	0	0	0
5/23/2024 13:37	41902	REED_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/23/2024 13:37	47802	MOCA_T2	0	1	1	0	0.3	0.3	-0.85	-0.83	0	0	0	0	0	0
5/23/2024 13:37	12701	MACU_T1	0	0	0	0	0	0	0.42	0.5	0	0	0	0	0	0
5/23/2024 13:37	64101	REFR_T1	0	0	0	0	0	0	0.75	0.64	0	0	0	0	0	0
5/23/2024 13:37	41903	REED_T1	0	0	0	0	0	0	0.86	0.78	2	2	0	2400	2400	0
5/23/2024 13:38	64101	REFR_T1	0	0	0	0	0	0	0.32	0.35	0	0	0	0	0	0
5/23/2024 13:38	47802	MOCA_T2	0	1	1	0	0.3	0.3	-0.83	-0.82	0	0	0	0	0	0
5/23/2024 13:39	64101	REFR_T1	0	0	0	0	0	0	1.29	1.41	0	0	0	0	0	0
5/23/2024 13:40	45801	HEGI_T1	0	0	0	0	0	0	-0.24	-0.29	1	1	0	900	900	0
5/23/2024 13:40	66505	SMAN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/23/2024 13:40	64101	REFR_T1	0	0	0	0	0	0	0.32	0.35	0	0	0	0	0	0
5/23/2024 13:40	66502	SMAN_T2	1	1	0	0.2	0.1	-0.1	0.42	0.42	0	0	0	0	0	0
5/23/2024 13:41	66502	SMAN_T2	1	1	0	0.2	0.1	-0.1	0.42	0.42	0	0	0	0	0	0
5/23/2024 13:41	66505	SMAN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/23/2024 13:42	27503	WEIS_T2	0	5	5	0	0.22	0.22	0	0	0	0	0	0	0	0
5/23/2024 13:42	64101	REFR_T1	0	0	0	0	0	0	0.32	0.35	0	0	0	0	0	0
5/23/2024 13:42	45902	AUBU_T1	0	1	1	0	0.2	0.2	-0.48	-0.57	1	1	0	600	600	0
5/23/2024 13:42	27502	WEIS_T2	6	0	-6	0.2	0	-0.2	-0.04	-0.07	0	0	0	0	0	0
5/23/2024 13:45	54505	ENOL_T2	0	0	0	0	0	0	-0.94	-0.94	1	1	0	600	600	0
5/23/2024 13:48	64204	KINZ_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
5/23/2024 13:48	64203	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/23/2024 13:48	64201	KINZ_T1	0	0	0	0	0	0	-0.04	0.09	4	4	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/23/2024 13:48	52403	GRPA_T2	1	2	1	1.1	0.9	-0.2	0.35	0.32	0	0	0	0	0	0
5/23/2024 13:48	52402	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/23/2024 13:50	64203	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/23/2024 13:50	64202	KINZ_T1	0	0	0	0	0	0	1.15	1.18	0	0	0	0	0	0
5/23/2024 13:50	64204	KINZ_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
5/23/2024 13:51	64904	WILL_T1	1	0	-1	0.1	0	-0.1	0.06	0.13	0	0	0	0	0	0
5/23/2024 13:54	13606	RICH_T2	1	1	0	7.8	8.1	0.3	1.42	1.49	0	0	0	0	0	0
5/23/2024 13:55	64101	REFR_T1	0	0	0	0	0	0	0.71	0.33	0	0	0	0	0	0
5/23/2024 13:57	64101	REFR_T1	0	0	0	0	0	0	0.35	0.16	0	0	0	0	0	0
5/23/2024 13:58	24801	VALM_T1	0	0	0	0	0	0	-0.15	-0.08	0	0	0	0	0	0
5/23/2024 14:00	64101	REFR_T1	0	0	0	0	0	0	0.35	0.16	0	0	0	0	0	0
5/23/2024 14:01	28403	HART_T2	0	0	0	0	0	0	-1.44	-1.24	2	2	0	1800	1800	0
5/23/2024 14:01	40101	HUNT_T2	8	4	-4	0.35	0.45	0.1	-0.22	-0.16	0	0	0	0	0	0
5/23/2024 14:01	53601	DALM_T2	0	1	1	0	1.2	1.2	-0.04	-0.92	1	2	1	900	1500	600
5/23/2024 14:02	63306	GREE_T1	0	0	0	0	0	0	-1.75	-1.71	1	1	0	900	900	0
5/23/2024 14:03	40101	HUNT_T2	8	4	-4	0.35	0.45	0.1	-0.22	-0.16	0	0	0	0	0	0
5/23/2024 14:03	41801	GOCI_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
5/23/2024 14:04	40101	HUNT_T2	8	4	-4	0.35	0.45	0.1	-0.22	-0.16	0	0	0	0	0	0
5/23/2024 14:04	63602	LETO_T1	1	1	0	0.3	0.6	0.3	-0.34	-0.46	1	1	0	600	600	0
5/23/2024 14:04	63601	LETO_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/23/2024 14:05	63602	LETO_T1	1	1	0	0.3	0.6	0.3	-0.34	-0.46	1	1	0	600	600	0
5/23/2024 14:05	63601	LETO_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/23/2024 14:06	16402	MOPO_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 14:06	16406	MOPO_T1	0	0	0	0	0	0	-0.32	-0.34	1	1	0	1200	1200	0
5/23/2024 14:08	47802	MOCA_T2	1	1	0	0.3	0.3	0	-0.81	-0.83	0	0	0	0	0	0
5/23/2024 14:08	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 14:09	67203	TEHI_T1	3	2	-1	1.63	0.5	-1.13	2.03	2.03	3	3	0	2100	2100	0
5/23/2024 14:09	67201	TEHI_T1	15	21	6	0.93	0.84	-0.09	0	0	0	0	0	0	0	0
5/23/2024 14:10	64101	REFR_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
5/23/2024 14:11	64101	REFR_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
5/23/2024 14:12	45902	AUBU_T1	1	1	0	0.2	0.2	0	-0.72	-0.72	1	1	0	600	600	0
5/23/2024 14:12	26601	BROO_T1	0	0	0	0	0	0	-0.09	-0.04	1	1	0	600	600	0
5/23/2024 14:13	51604	DUKE_T2	0	2	2	0	0.2	0.2	-1.02	-0.95	1	1	0	900	900	0
5/23/2024 14:13	64101	REFR_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
5/23/2024 14:14	45902	AUBU_T1	1	1	0	0.2	0.2	0	-0.72	-0.72	1	1	0	600	600	0
5/23/2024 14:17	40101	HUNT_T2	3	6	3	0.37	0.55	0.18	-0.16	-0.17	0	0	0	0	0	0
5/23/2024 14:18	64203	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 14:18	64204	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
5/23/2024 14:18	52404	GRPA_T2	0	0	0	0	0	0	0.61	0.58	0	0	0	0	0	0
5/23/2024 14:18	64201	KINZ_T1	0	0	0	0	0	0	-0.07	-0.15	4	4	0	2100	2100	0
5/23/2024 14:18	52403	GRPA_T2	2	4	2	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
5/23/2024 14:18	63302	GREE_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
5/23/2024 14:19	52404	GRPA_T2	0	0	0	0	0	0	0.61	0.58	0	0	0	0	0	0
5/23/2024 14:19	52403	GRPA_T2	2	4	2	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
5/23/2024 14:21	41204	KENM_T2	0	0	0	0	0	0	0.77	0.78	0	0	0	0	0	0
5/23/2024 14:23	67401	WAKE_T2	4	4	0	0.65	0.53	-0.12	-0.78	-0.87	0	0	0	0	0	0
5/23/2024 14:23	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.67	-0.65	0	0	0	0	0	0
5/23/2024 14:25	58001	WCAR_T1	3	6	3	0.2	0.45	0.25	0	0	0	0	0	0	0	0
5/23/2024 14:25	58003	WCAR_T1	3	3	0	0.3	0.5	0.2	0.61	1.25	1	0	-1	600	0	-600
5/23/2024 14:25	61102	BERK_T5	0	0	0	0	0	0	0.69	0.6	1	1	0	300	300	0
5/23/2024 14:26	61102	BERK_T5	0	0	0	0	0	0	2.78	2.4	4	4	0	1200	1200	0
5/23/2024 14:27	61102	BERK_T5	0	0	0	0	0	0	0.69	0.6	1	1	0	300	300	0
5/23/2024 14:27	58006	WCAR_T2	0	0	0	0	0	0	-0.64	-0.58	0	0	0	0	0	0
5/23/2024 14:28	61701	ELIZ_T1	2	2	0	1.85	1.9	0.05	0	0	0	0	0	0	0	0
5/23/2024 14:28	61703	ELIZ_T1	0	0	0	0	0	0	-2.07	-2.28	2	2	0	2100	2100	0
5/23/2024 14:29	61102	BERK_T5	0	0	0	0	0	0	1.39	1.2	2	2	0	600	600	0
5/23/2024 14:29	63804	HEMP_T1	1	1	0	7.3	7.2	-0.1	-0.16	-0.14	0	0	0	0	0	0
5/23/2024 14:30	61102	BERK_T5	0	0	0	0	0	0	0.69	0.6	1	1	0	300	300	0
5/23/2024 14:33	64204	KINZ_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
5/23/2024 14:33	64203	KINZ_T1	0	1	1	0	0.1	0.1	0.63	0.65	3	3	0	2100	2100	0
5/23/2024 14:37	66504	SMAN_T2	0	0	0	0	0	0	-0.98	-0.91	1	1	0	1200	1200	0
5/23/2024 14:38	66504	SMAN_T2	0	0	0	0	0	0	-1.82	-1.69	2	2	0	2400	2400	0
5/23/2024 14:39	54202	PENN_T2	0	0	0	0	0	0	0.61	1.18	0	0	0	0	0	0
5/23/2024 14:39	64101	REFR_T1	0	0	0	0	0	0	0.24	0.27	0	0	0	0	0	0
5/23/2024 14:40	13503	MCMI_T2	0	1	1	0	0.7	0.7	0.04	0.04	0	0	0	0	0	0
5/23/2024 14:40	64101	REFR_T1	0	0	0	0	0	0	0.48	0.54	0	0	0	0	0	0
5/23/2024 14:41	67402	WAKE_T2	0	0	0	0	0	0	1.38	1.4	0	0	0	0	0	0
5/23/2024 14:41	64101	REFR_T1	0	0	0	0	0	0	0.24	0.27	0	0	0	0	0	0
5/23/2024 14:41	67401	WAKE_T2	4	4	0	0.43	0.48	0.05	0	0	0	0	0	0	0	0
5/23/2024 14:42	58006	WCAR_T2	0	0	0	0	0	0	-1.16	-1.16	0	0	0	0	0	0
5/23/2024 14:42	64101	REFR_T1	0	0	0	0	0	0	0.24	0.27	0	0	0	0	0	0
5/23/2024 14:43	64101	REFR_T1	0	0	0	0	0	0	0.24	0.27	0	0	0	0	0	0
5/23/2024 14:45	67402	WAKE_T2	0	0	0	0	0	0	1.38	1.4	0	0	0	0	0	0
5/23/2024 14:45	67401	WAKE_T2	4	3	-1	0.4	0.53	0.13	0	0	0	0	0	0	0	0
5/23/2024 14:46	44502	HAMI_T2	1	1	0	1.7	2	0.3	0	0	0	0	0	0	0	0
5/23/2024 14:46	44505	HAMI_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/23/2024 14:48	56801	BENV_T1	12	18	6	0.49	0.86	0.37	0	0	0	0	0	0	0	0
5/23/2024 14:48	44505	HAMI_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/23/2024 14:48	56803	BENV_T1	3	2	-1	1.13	0.1	-1.03	0.01	0.03	1	1	0	600	600	0
5/23/2024 14:48	44502	HAMI_T2	1	1	0	1.7	2	0.3	0	0	0	0	0	0	0	0
5/23/2024 14:58	58006	WCAR_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
5/23/2024 15:01	23203	HIRU_T2	1	1	0	0.2	0.1	-0.1	0.16	0.08	0	0	0	0	0	0
5/23/2024 15:02	11103	EGYP_T1	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
5/23/2024 15:02	45501	DERR_T2	1	1	0	0.6	0.5	-0.1	0.74	0.79	2	2	0	1800	1800	0
5/23/2024 15:02	11102	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/23/2024 15:02	11104	EGYP_T1	7	9	2	1	1.01	0.01	0	0	0	0	0	0	0	0
5/23/2024 15:03	11102	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/23/2024 15:03	11104	EGYP_T1	7	9	2	1	1.01	0.01	0	0	0	0	0	0	0	0
5/23/2024 15:03	11103	EGYP_T1	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
5/23/2024 15:07	42201	SHEN_T2	1	1	0	0.2	0.8	0.6	0.03	0	1	1	0	600	600	0
5/23/2024 15:07	23203	HIRU_T2	1	1	0	0.2	0.1	-0.1	0.16	0.08	0	0	0	0	0	0
5/23/2024 15:09	64101	REFR_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
5/23/2024 15:10	42201	SHEN_T2	1	1	0	0.2	0.8	0.6	0	0.02	1	1	0	600	600	0
5/23/2024 15:10	64101	REFR_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
5/23/2024 15:11	64101	REFR_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
5/23/2024 15:12	64101	REFR_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
5/23/2024 15:13	64101	REFR_T1	0	0	0	0	0	0	0.6	0.64	0	0	0	0	0	0
5/23/2024 15:14	58006	WCAR_T2	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
5/23/2024 15:15	29402	BELT_T1	13	10	-3	1	1.21	0.21	0	0	0	0	0	0	0	0
5/23/2024 15:15	29401	BELT_T1	34	25	-9	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
5/23/2024 15:16	45501	DERR_T2	1	1	0	0.7	0.2	-0.5	0.79	0.74	2	2	0	1800	1800	0
5/23/2024 15:16	56803	BENV_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/23/2024 15:16	56801	BENV_T1	14	12	-2	0.63	1.07	0.44	-0.59	-0.61	2	2	0	1200	1200	0
5/23/2024 15:17	56803	BENV_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/23/2024 15:17	56801	BENV_T1	14	12	-2	0.63	1.07	0.44	-0.59	-0.61	2	2	0	1200	1200	0
5/23/2024 15:20	64204	KINZ_T1	1	1	0	0.5	1.4	0.9	0	0	0	0	0	0	0	0
5/23/2024 15:20	56801	BENV_T1	14	12	-2	0.63	1.07	0.44	-0.59	-0.61	2	2	0	1200	1200	0
5/23/2024 15:20	64203	KINZ_T1	1	1	0	0.3	0.2	-0.1	1.03	1.17	6	6	0	4200	4200	0
5/23/2024 15:20	56803	BENV_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/23/2024 15:22	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/23/2024 15:24	64101	REFR_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
5/23/2024 15:29	64101	REFR_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
5/23/2024 15:30	67702	WERN_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
5/23/2024 15:33	45801	HEGI_T1	0	0	0	0	0	0	-0.25	-0.3	1	1	0	900	900	0
5/23/2024 15:35	58401	MORO_T1	0	0	0	0	0	0	-1.8	-1.8	2	2	0	1500	1500	0
5/23/2024 15:35	58402	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/23/2024 15:37	58402	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/23/2024 15:37	58401	MORO_T1	0	0	0	0	0	0	-3.6	-3.6	4	4	0	3000	3000	0
5/23/2024 15:40	58006	WCAR_T2	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
5/23/2024 15:42	29401	BELT_T1	25	6	-19	0.13	0.17	0.04	0	0	1	1	0	900	900	0
5/23/2024 15:42	29402	BELT_T1	10	3	-7	1.21	3.37	2.16	0	0	0	0	0	0	0	0
5/23/2024 15:43	29401	BELT_T1	25	6	-19	0.13	0.17	0.04	0	0	1	1	0	900	900	0
5/23/2024 15:43	29402	BELT_T1	10	3	-7	1.21	3.37	2.16	0	0	0	0	0	0	0	0
5/23/2024 15:46	22901	HARW_T1	0	0	0	0	0	0	-0.2	-0.15	1	1	0	1200	1200	0
5/23/2024 15:47	63306	GREE_T1	0	0	0	0	0	0	-1.65	-1.59	1	1	0	900	900	0
5/23/2024 16:00	10801	CHHI_T1	0	2	2	0	0	0	-1.42	-1.44	3	3	0	2100	2100	0
5/23/2024 16:05	58102	NEKI_T1	1	2	1	0.8	0.95	0.15	0.13	-0.96	0	1	1	0	1200	1200
5/23/2024 16:07	57101	SPHI_T2	4	6	2	0.1	0.63	0.53	0	0	0	0	0	0	0	0
5/23/2024 16:07	57106	SPHI_T2	3	3	0	0.33	0.8	0.47	0	0	0	0	0	0	0	0
5/23/2024 16:07	57104	SPHI_T2	1	1	0	0.7	0.4	-0.3	-1.03	-0.96	1	1	0	900	900	0
5/23/2024 16:10	50502	MECH_T1	1	1	0	0.9	1.5	0.6	0	0	0	0	0	0	0	0
5/23/2024 16:10	50505	MECH_T1	0	0	0	0	0	0	-1.59	-1.61	0	0	0	0	0	0
5/23/2024 16:12	66504	SMAN_T2	0	0	0	0	0	0	-0.69	-0.79	1	1	0	1200	1200	0
5/23/2024 16:13	21203	ECAR_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
5/23/2024 16:23	58102	NEKI_T1	1	2	1	1.5	0.95	-0.55	-1.07	-1.19	1	1	0	1200	1200	0
5/23/2024 16:24	67204	TEHI_T2	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
5/23/2024 16:27	67204	TEHI_T2	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
5/23/2024 16:27	58006	WCAR_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
5/23/2024 16:46	29401	BELT_T1	13	12	-1	0.15	0.16	0.01	0	0	1	1	0	900	900	0
5/23/2024 16:46	29402	BELT_T1	1	2	1	9.3	4.75	-4.55	0	0	0	0	0	0	0	0
5/23/2024 16:47	52403	GRPA_T2	6	8	2	0.58	1.45	0.87	0.47	0.47	0	0	0	0	0	0
5/23/2024 16:47	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 16:48	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 16:48	52403	GRPA_T2	6	8	2	0.58	1.45	0.87	0.47	0.47	0	0	0	0	0	0
5/23/2024 16:51	13503	MCMI_T2	0	140	140	0	0.3	0.3	-0.51	-0.8	0	0	0	0	0	0
5/23/2024 16:56	29401	BELT_T1	13	12	-1	0.15	0.16	0.01	0	0	1	1	0	900	900	0
5/23/2024 16:56	29402	BELT_T1	1	2	1	9.3	4.75	-4.55	0	0	0	0	0	0	0	0
5/23/2024 16:57	58003	WCAR_T1	1	3	2	0.7	0.73	0.03	0.63	0.53	1	1	0	600	600	0
5/23/2024 16:57	58001	WCAR_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/23/2024 17:07	60501	NMAN_T2	3	3	0	3.53	3.4	-0.13	0	0	0	0	0	0	0	0
5/23/2024 17:07	60502	NMAN_T2	0	0	0	0	0	0	0.42	0.36	0	0	0	0	0	0
5/23/2024 17:09	60501	NMAN_T2	3	3	0	3.53	3.4	-0.13	0	0	0	0	0	0	0	0
5/23/2024 17:09	60502	NMAN_T2	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
5/23/2024 17:14	58002	WCAR_T2	2	2	0	0.5	0.75	0.25	0	0	0	0	0	0	0	0
5/23/2024 17:14	58006	WCAR_T2	0	0	0	0	0	0	-0.54	-0.49	0	0	0	0	0	0
5/23/2024 17:19	20601	GRWO_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
5/23/2024 17:19	20603	GRWO_T2	0	67	67	0	0.36	0.36	0.53	0.57	0	0	0	0	0	0
5/23/2024 17:20	28403	HART_T2	0	0	0	0	0	0	-0.63	-0.65	1	1	0	900	900	0
5/23/2024 17:30	59101	WALK_T2	0	0	0	0	0	0	-0.18	-0.09	0	0	0	0	0	0
5/23/2024 17:31	67702	WERN_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
5/23/2024 17:32	63305	GREE_T1	1	1	0	0	0	0	-1.78	-1.7	1	1	0	900	900	0
5/23/2024 17:35	63305	GREE_T1	1	1	0	0	0	0	-1.78	-1.7	1	1	0	900	900	0
5/23/2024 17:37	64204	KINZ_T1	2	2	0	0.55	0.8	0.25	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/23/2024 17:37	64203	KINZ_T1	0	0	0	0	0	0	0.07	-0.01	2	2	0	1200	1200	0
5/23/2024 17:37	64201	KINZ_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/23/2024 17:37	64202	KINZ_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
5/23/2024 17:39	54206	PENN_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
5/23/2024 17:40	54206	PENN_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
5/23/2024 17:43	29402	BELT_T1	1	1	0	9.5	9.5	0	0	0	0	0	0	0	0	0
5/23/2024 17:43	29401	BELT_T1	5	18	13	0.14	0.11	-0.03	0	0	1	1	0	900	900	0
5/23/2024 17:55	54201	PENN_T1	3	4	1	0.93	0.93	0	-0.34	-0.33	0	0	0	0	0	0
5/23/2024 17:55	54203	PENN_T1	18	18	0	0.34	0.61	0.27	0	0	0	0	0	0	0	0
5/23/2024 17:58	52403	GRPA_T2	4	9	5	0.93	1.55	0.62	-0.09	-0.1	0	0	0	0	0	0
5/23/2024 17:58	52401	GRPA_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
5/23/2024 17:58	52402	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/23/2024 18:00	62105	ELAN_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/23/2024 18:00	62102	ELAN_T1	0	0	0	0	0	0	1.5	1.43	0	0	0	0	0	0
5/23/2024 18:02	20603	GRWO_T2	78	55	-23	0.38	0.4	0.02	0.61	0.62	0	0	0	0	0	0
5/23/2024 18:03	20603	GRWO_T2	78	55	-23	0.38	0.4	0.02	0	0	0	0	0	0	0	0
5/23/2024 18:03	20601	GRWO_T2	0	0	0	0	0	0	0.08	0.14	0	0	0	0	0	0
5/23/2024 18:08	42504	ALTA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/23/2024 18:08	42503	ALTA_T2	0	0	0	0	0	0	-0.58	-0.53	0	0	0	0	0	0
5/23/2024 18:08	42501	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/23/2024 18:15	11104	EGYP_T1	5	5	0	1.12	1.16	0.04	0	0	0	0	0	0	0	0
5/23/2024 18:15	11101	EGYP_T1	0	0	0	0	0	0	0.88	0.86	0	0	0	0	0	0
5/23/2024 18:15	11102	EGYP_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
5/23/2024 18:20	13503	MCMI_T2	88	118	30	0.28	0.25	-0.03	-0.78	-0.8	0	0	0	0	0	0
5/23/2024 18:29	67702	WERN_T2	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
5/23/2024 18:30	58003	WCAR_T1	44	48	4	0.3	0.35	0.05	1.06	1.05	0	0	0	0	0	0
5/23/2024 18:30	67702	WERN_T2	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
5/23/2024 18:30	58001	WCAR_T1	6	5	-1	0.83	0.96	0.13	0	0	0	0	0	0	0	0
5/23/2024 18:31	51505	SWAT_T2	0	0	0	0	0	0	0.86	1.09	0	0	0	0	0	0
5/23/2024 18:31	29401	BELT_T1	21	37	16	0.13	0.22	0.09	0	0	1	1	0	900	900	0
5/23/2024 18:31	29402	BELT_T1	1	4	3	9.3	2.48	-6.82	0	0	0	0	0	0	0	0
5/23/2024 18:37	42501	ALTA_T2	0	0	0	0	0	0	-0.9	-0.89	1	1	0	600	600	0
5/23/2024 18:37	27603	PIRI_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
5/23/2024 18:37	27605	PIRI_T2	3	4	1	0.33	0.27	-0.06	0.96	0.89	0	0	0	0	0	0
5/23/2024 18:38	42501	ALTA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	600	600	0
5/23/2024 18:41	67702	WERN_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
5/23/2024 18:41	29401	BELT_T1	21	37	16	0.13	0.22	0.09	0	0	1	1	0	900	900	0
5/23/2024 18:41	29402	BELT_T1	1	4	3	9.3	2.48	-6.82	0	0	0	0	0	0	0	0
5/23/2024 18:42	50701	SMEC_T1	0	0	0	0	0	0	0.21	0.09	0	0	0	0	0	0
5/23/2024 18:43	50701	SMEC_T1	0	0	0	0	0	0	0.21	0.09	0	0	0	0	0	0
5/23/2024 18:45	67702	WERN_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
5/23/2024 18:46	24702	FLND_T2	0	6	6	0	0	0	1.28	1.07	0	0	0	0	0	0
5/23/2024 18:49	65205	PRIN_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
5/23/2024 18:50	12502	MITR_T2	1	1	0	7.2	7	-0.2	0	0	0	0	0	0	0	0
5/23/2024 18:50	12505	MITR_T2	0	0	0	0	0	0	1.69	1.44	0	0	0	0	0	0
5/23/2024 18:52	12502	MITR_T2	1	1	0	7.2	7	-0.2	0	0	0	0	0	0	0	0
5/23/2024 18:52	50201	HARR_T3	2	2	0	4.85	4.45	-0.4	0	0	0	0	0	0	0	0
5/23/2024 18:52	50105	HARR_T3	6	6	0	5.82	5.9	0.08	0	0	0	0	0	0	0	0
5/23/2024 18:52	50107	HARR_T3	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
5/23/2024 18:52	12505	MITR_T2	0	0	0	0	0	0	1.69	1.44	0	0	0	0	0	0
5/23/2024 18:52	50103	HARR_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/23/2024 18:57	45902	AUBU_T1	0	0	0	0	0	0	-0.74	-0.82	1	1	0	600	600	0
5/23/2024 19:01	63305	GREE_T1	2	7	5	0.2	0.24	0.04	0	0	0	0	0	0	0	0
5/23/2024 19:01	46801	HEPB_T2	0	3	3	0	0.1	0.1	1.14	1.08	0	0	0	0	0	0
5/23/2024 19:01	63306	GREE_T1	0	0	0	0	0	0	-1.73	-1.75	1	1	0	900	900	0
5/23/2024 19:02	53501	EVIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/23/2024 19:02	63403	HONY_T2	0	0	0	0	0	0	-0.83	-0.85	1	1	0	600	600	0
5/23/2024 19:02	63402	HONY_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/23/2024 19:02	53502	EVIL_T2	0	0	0	0	0	0	-0.32	-0.25	2	2	0	1200	1200	0
5/23/2024 19:04	50502	MECH_T1	1	1	0	1.6	2.1	0.5	0	0	0	0	0	0	0	0
5/23/2024 19:04	50506	MECH_T1	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
5/23/2024 19:05	44505	HAMI_T2	0	0	0	0	0	0	0	0.08	0	0	0	0	0	0
5/23/2024 19:05	44502	HAMI_T2	1	1	0	2.4	2.7	0.3	0	0	0	0	0	0	0	0
5/23/2024 19:06	44505	HAMI_T2	0	0	0	0	0	0	0	0.08	0	0	0	0	0	0
5/23/2024 19:06	46801	HEPB_T2	0	3	3	0	0.1	0.1	1.14	1.08	0	0	0	0	0	0
5/23/2024 19:06	44502	HAMI_T2	1	1	0	2.4	2.7	0.3	0	0	0	0	0	0	0	0
5/23/2024 19:10	15203	SFAR_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/23/2024 19:10	15204	SFAR_T2	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
5/23/2024 19:13	15203	SFAR_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/23/2024 19:13	43504	WWIL_T1	2	2	0	0.1	0.35	0.25	1.08	1.1	0	0	0	0	0	0
5/23/2024 19:13	15204	SFAR_T2	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
5/23/2024 19:13	43506	WWIL_T1	2	6	4	1.15	0.7	-0.45	0	0	0	0	0	0	0	0
5/23/2024 19:13	43505	WWIL_T1	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
5/23/2024 19:17	16102	BING_T2	1	1	0	0.5	0.5	0	-0.81	-0.9	1	1	0	1200	1200	0
5/23/2024 19:18	10705	CATA_T2	0	187	187	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 19:18	10707	CATA_T2	0	0	0	0	0	0	0.59	0.66	0	0	0	0	0	0
5/23/2024 19:21	10705	CATA_T2	0	187	187	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 19:21	10702	CATA_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
5/23/2024 19:23	64802	MONE_T2	1	2	1	0.1	0.15	0.05	0.22	0.23	0	0	0	0	0	0
5/23/2024 19:23	64801	MONE_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
5/23/2024 19:24	12601	MACA_T1	0	0	0	0	0	0	1.21	1.26	0	0	0	0	0	0
5/23/2024 19:24	12606	MACA_T1	0	10	10	0	0.37	0.37	0	0	0	0	0	0	0	0
5/23/2024 19:31	63305	GREE_T1	7	9	2	0.22	0.33	0.11	0	0	0	0	0	0	0	0
5/23/2024 19:31	63304	GREE_T1	0	0	0	0	0	0	-1.09	-1.07	0	0	0	0	0	0
5/23/2024 19:32	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/23/2024 19:32	46801	HEPB_T2	2	3	1	0.1	0.23	0.13	1.07	1.07	0	0	0	0	0	0
5/23/2024 19:33	61304	EARL_T1	0	0	0	0	0	0	-0.64	-0.7	2	2	0	1200	1200	0
5/23/2024 19:37	48302	ORWI_T2	2	2	0	0.9	1.05	0.15	-0.36	-0.36	0	0	0	0	0	0
5/23/2024 19:39	52002	LING_T2	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
5/23/2024 19:40	59201	THOM_T1	4	6	2	0.15	0.17	0.02	0	0	0	0	0	0	0	0
5/23/2024 19:40	59202	THOM_T1	7	9	2	0.19	0.2	0.01	0	0	0	0	0	0	0	0
5/23/2024 19:43	10801	CHHI_T1	2	0	-2	0.55	0	-0.55	-1.45	-1.47	3	3	0	2100	2100	0
5/23/2024 19:44	51702	OBER_T1	2	2	0	2.2	2.6	0.4	-0.67	-0.7	1	1	0	600	600	0
5/23/2024 19:50	54505	ENOL_T2	0	1	1	0	0.1	0.1	-0.79	-0.84	1	1	0	600	600	0
5/23/2024 19:55	52501	PROG_T1	0	2	2	0	0.15	0.15	0.98	0.94	1	1	0	300	300	0
5/23/2024 19:55	20403	ASHF_T2	0	1	1	0	0	0	0.59	0.49	0	0	0	0	0	0
5/23/2024 19:55	20401	ASHF_T2	3	4	1	0.4	0.48	0.08	0	0	0	0	0	0	0	0
5/23/2024 19:55	52504	PROG_T1	0	9	9	0	0.11	0.11	0	0	0	0	0	0	0	0
5/23/2024 19:55	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/23/2024 20:03	50103	HARR_T3	2	2	0	0.55	0.25	-0.3	-1.44	-1.43	1	1	0	1200	1200	0
5/23/2024 20:03	50201	HARR_T3	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/23/2024 20:03	50105	HARR_T3	6	6	0	5.8	6	0.2	0	0	0	0	0	0	0	0
5/23/2024 20:10	57403	SPAN_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
5/23/2024 20:18	64702	LITI_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/23/2024 20:21	64702	LITI_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/23/2024 20:22	64702	LITI_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/23/2024 20:28	62604	ENGL_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/23/2024 20:28	62607	ENGL_T1	1	1	0	0.6	0.3	-0.3	-0.54	-0.54	1	1	0	300	300	0
5/23/2024 20:31	67703	WERN_T2	0	0	0	0	0	0	-0.84	-0.86	2	2	0	1800	1800	0
5/23/2024 20:32	56802	BENV_T2	3	13	10	0.17	0.15	-0.02	-0.99	-1.04	0	0	0	0	0	0
5/23/2024 20:36	53902	HALI_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
5/23/2024 20:36	53901	HALI_T2	1	1	0	0.2	0.4	0.2	-1.13	-1.15	0	0	0	0	0	0
5/23/2024 20:36	53903	HALI_T2	2	2	0	1.35	1.5	0.15	0	0	0	0	0	0	0	0
5/23/2024 20:50	67702	WERN_T2	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
5/23/2024 20:56	13501	MCMI_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
5/23/2024 21:23	16902	MECK_T1	0	0	0	0	0	0	0.3	0.22	0	0	0	0	0	0
5/23/2024 21:28	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	1	1	0	900	900	0
5/23/2024 21:28	43302	WATS_T2	4	4	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/23/2024 21:28	56801	BENV_T1	3	9	6	0.27	0.57	0.3	-0.55	-0.62	1	1	0	600	600	0
5/23/2024 21:36	25503	MADI_T1	84	49	-35	0.28	0.17	-0.11	-0.87	-0.86	0	0	0	0	0	0
5/23/2024 21:36	64201	KINZ_T1	14	11	-3	0.31	0.46	0.15	0	0	0	0	0	0	0	0
5/23/2024 21:36	64202	KINZ_T1	10	15	5	0.21	0.45	0.24	0	0	0	0	0	0	0	0
5/23/2024 21:36	64204	KINZ_T1	25	37	12	0.26	0.42	0.16	0	0	0	0	0	0	0	0
5/23/2024 21:36	64203	KINZ_T1	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
5/23/2024 22:01	56802	BENV_T2	2	1	-1	0.4	0.2	-0.2	-0.47	-0.49	0	0	0	0	0	0
5/23/2024 22:05	63602	LETO_T1	0	0	0	0	0	0	-0.55	-0.65	1	1	0	600	600	0
5/23/2024 22:05	56802	BENV_T2	2	1	-1	0.4	0.2	-0.2	-0.94	-0.98	0	0	0	0	0	0
5/23/2024 22:07	56801	BENV_T1	12	11	-1	0.83	0.43	-0.4	-0.66	-0.7	1	1	0	600	600	0
5/23/2024 22:08	66703	STRA_T1	12	36	24	0.45	0.24	-0.21	0	0	0	0	0	0	0	0
5/23/2024 22:08	66701	STRA_T1	0	0	0	0	0	0	0.23	0.16	1	1	0	600	600	0
5/23/2024 22:09	67502	WEWI_T2	7	7	0	0.26	0.3	0.04	-0.13	-0.16	0	0	0	0	0	0
5/23/2024 22:10	14802	TREI_T2	0	0	0	0	0	0	0.53	0.48	0	0	0	0	0	0
5/23/2024 22:10	57401	SPAN_T1	0	0	0	0	0	0	-0.94	-0.99	1	1	0	600	600	0
5/23/2024 22:11	67505	WEWI_T1	0	0	0	0	0	0	0.23	0.12	1	1	0	900	900	0
5/23/2024 22:12	66703	STRA_T1	12	36	24	0.45	0.24	-0.21	-0.06	-0.14	0	0	0	0	0	0
5/23/2024 22:14	64202	KINZ_T1	14	4	-10	0.48	0.18	-0.3	0	0	0	0	0	0	0	0
5/23/2024 22:14	64201	KINZ_T1	10	7	-3	0.49	0.4	-0.09	0.55	0.56	1	1	0	300	300	0
5/23/2024 22:14	64204	KINZ_T1	37	4	-33	0.42	0.35	-0.07	0	0	0	0	0	0	0	0
5/23/2024 22:15	24801	VALM_T1	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
5/23/2024 22:15	67902	WNHO_T2	0	0	0	0	0	0	-0.05	0.04	2	2	0	2100	2100	0
5/23/2024 22:16	64101	REFR_T1	0	0	0	0	0	0	0.19	0.12	0	0	0	0	0	0
5/23/2024 22:16	29402	BELT_T1	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:16	50103	HARR_T3	0	0	0	0	0	0	-0.23	-0.32	1	1	0	1200	1200	0
5/23/2024 22:16	23202	HIRU_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
5/23/2024 22:16	63602	LETO_T1	0	0	0	0	0	0	-0.65	-0.67	1	1	0	600	600	0
5/23/2024 22:16	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
5/23/2024 22:16	50105	HARR_T3	6	6	0	6.27	6.37	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:16	50201	HARR_T3	1	1	0	8.7	8.3	-0.4	0	0	0	0	0	0	0	0
5/23/2024 22:17	14801	TREI_T2	0	0	0	0	0	0	0.68	0.61	0	0	0	0	0	0
5/23/2024 22:17	67505	WEWI_T1	0	0	0	0	0	0	0.23	0.12	1	1	0	900	900	0
5/23/2024 22:18	64202	KINZ_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
5/23/2024 22:18	54201	PENN_T1	7	3	-4	0.73	1.23	0.5	-0.64	-0.64	0	0	0	0	0	0
5/23/2024 22:18	50701	SMEC_T1	0	0	0	0	0	0	-0.39	-0.56	0	0	0	0	0	0
5/23/2024 22:18	64204	KINZ_T1	4	4	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:18	20401	ASHF_T2	2	2	0	0.3	0.4	0.1	-0.06	-0.07	0	0	0	0	0	0
5/23/2024 22:18	64201	KINZ_T1	6	7	1	0.38	0.39	0.01	0.55	0.56	1	1	0	300	300	0
5/23/2024 22:18	54203	PENN_T1	18	5	-13	0.64	0.9	0.26	0	0	0	0	0	0	0	0
5/23/2024 22:19	65001	NEFF_T2	0	0	0	0	0	0	-0.53	-0.57	1	1	0	1200	1200	0
5/23/2024 22:19	15702	TANN_T2	1	1	0	0.7	0	-0.7	-0.29	-0.37	0	0	0	0	0	0
5/23/2024 22:19	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
5/23/2024 22:20	29402	BELT_T1	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:20	65004	NEFF_T2	0	0	0	0	0	0	-0.23	-0.68	0	1	1	0	600	600
5/23/2024 22:20	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/23/2024 22:21	64204	KINZ_T1	4	4	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:21	64201	KINZ_T1	6	7	1	0.38	0.39	0.01	0.55	0.56	1	1	0	300	300	0
5/23/2024 22:21	64203	KINZ_T1	0	0	0	0	0	0	0.6	0.51	0	0	0	0	0	0
5/23/2024 22:21	64202	KINZ_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
5/23/2024 22:21	29402	BELT_T1	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:22	29402	BELT_T1	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:22	60802	BUCK_T2	161	133	-28	0.36	0.31	-0.05	0.28	0.28	0	0	0	0	0	0
5/23/2024 22:22	50105	HARR_T3	6	6	0	6.27	6.37	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:22	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/23/2024 22:22	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/23/2024 22:22	62607	ENGL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 22:22	50201	HARR_T3	1	1	0	8.7	8.3	-0.4	0	0	0	0	0	0	0	0
5/23/2024 22:22	64101	REFR_T1	0	0	0	0	0	0	0.19	0.12	0	0	0	0	0	0
5/23/2024 22:22	50107	HARR_T3	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
5/23/2024 22:22	17802	GILB_T1	0	0	0	0	0	0	0.1	0.22	0	0	0	0	0	0
5/23/2024 22:22	62605	ENGL_T1	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
5/23/2024 22:23	53901	HALI_T2	0	1	1	0	0.4	0.4	-1.23	-1.26	0	0	0	0	0	0
5/23/2024 22:23	20401	ASHF_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:23	20403	ASHF_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
5/23/2024 22:23	53903	HALI_T2	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
5/23/2024 22:23	21204	ECAR_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/23/2024 22:23	21206	ECAR_T2	1	1	0	8	8.4	0.4	0.09	0.07	0	0	0	0	0	0
5/23/2024 22:23	20603	GRWO_T2	50	42	-8	0.4	0.39	-0.01	0.47	0.45	0	0	0	0	0	0
5/23/2024 22:23	50502	MECH_T1	1	1	0	1.8	1	-0.8	0	0	0	0	0	0	0	0
5/23/2024 22:23	50505	MECH_T1	0	0	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
5/23/2024 22:23	11104	EGYP_T1	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
5/23/2024 22:23	58402	MORO_T1	0	0	0	0	0	0	-0.25	-0.28	3	2	-1	2400	1500	-900
5/23/2024 22:23	57403	SPAN_T1	0	0	0	0	0	0	0.19	0.16	0	0	0	0	0	0
5/23/2024 22:23	20601	GRWO_T2	15	51	36	0.14	0.2	0.06	0	0	0	0	0	0	0	0
5/23/2024 22:23	11103	EGYP_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
5/23/2024 22:23	58006	WCAR_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
5/23/2024 22:23	64101	REFR_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
5/23/2024 22:23	29402	BELT_T1	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:23	53902	HALI_T2	1	1	0	5.1	5.4	0.3	0	0	0	0	0	0	0	0
5/23/2024 22:23	50501	MECH_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/23/2024 22:23	65801	RTWN_T1	0	0	0	0	0	0	-0.91	-0.87	2	2	0	1200	1200	0
5/23/2024 22:24	66504	SMAN_T2	0	0	0	0	0	0	-1.18	-1.35	1	1	0	1200	1200	0
5/23/2024 22:24	11104	EGYP_T1	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
5/23/2024 22:24	57401	SPAN_T1	0	0	0	0	0	0	-0.99	-0.83	1	1	0	600	600	0
5/23/2024 22:24	45901	AUBU_T1	0	0	0	0	0	0	1.81	1.8	0	0	0	0	0	0
5/23/2024 22:24	11103	EGYP_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
5/23/2024 22:24	42802	SELI_T1	0	0	0	0	0	0	-1.11	-1.12	0	0	0	0	0	0
5/23/2024 22:25	60101	COCA_T1	0	0	0	0	0	0	0.54	0.5	0	0	0	0	0	0
5/23/2024 22:25	50201	HARR_T3	1	1	0	8.7	8.3	-0.4	0	0	0	0	0	0	0	0
5/23/2024 22:25	50105	HARR_T3	6	6	0	6.27	6.37	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:25	64101	REFR_T1	0	0	0	0	0	0	0.36	0.3	0	0	0	0	0	0
5/23/2024 22:25	21204	ECAR_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/23/2024 22:25	21206	ECAR_T2	1	1	0	8	8.4	0.4	0.07	0.02	0	0	0	0	0	0
5/23/2024 22:25	17002	RIRO_T2	0	0	0	0	0	0	0.4	0.44	0	0	0	0	0	0
5/23/2024 22:25	54203	PENN_T1	18	5	-13	0.64	0.9	0.26	0	0	0	0	0	0	0	0
5/23/2024 22:25	54201	PENN_T1	7	3	-4	0.73	1.23	0.5	-0.64	-0.69	0	0	0	0	0	0
5/23/2024 22:25	65802	RTWN_T2	0	0	0	0	0	0	0.22	0.18	0	0	0	0	0	0
5/23/2024 22:25	50103	HARR_T3	0	0	0	0	0	0	-0.32	-0.33	1	1	0	1200	1200	0
5/23/2024 22:26	67402	WAKE_T2	3	1	-2	0.17	0.2	0.03	0	0	0	0	0	0	0	0
5/23/2024 22:26	53903	HALI_T2	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
5/23/2024 22:26	23203	HIRU_T2	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
5/23/2024 22:26	67702	WERN_T2	0	0	0	0	0	0	0.05	-0.01	0	0	0	0	0	0
5/23/2024 22:26	56802	BENV_T2	0	1	1	0	0.4	0.4	-1.27	-1.3	0	0	0	0	0	0
5/23/2024 22:26	64801	MONE_T2	27	30	3	0.22	0.19	-0.03	0	0	0	0	0	0	0	0
5/23/2024 22:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/23/2024 22:26	67603	WARW_T1	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
5/23/2024 22:26	64202	KINZ_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
5/23/2024 22:26	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	900	900	0
5/23/2024 22:26	67804	WLAN_T1	0	0	0	0	0	0	-0.8	-0.83	0	0	0	0	0	0
5/23/2024 22:26	64802	MONE_T2	47	14	-33	0.14	0.16	0.02	0.41	0.33	0	0	0	0	0	0
5/23/2024 22:26	67401	WAKE_T2	173	130	-43	0.39	0.39	0	-0.61	-0.84	0	0	0	0	0	0
5/23/2024 22:26	64902	MILL_T2	0	0	0	0	0	0	-0.35	-0.38	1	1	0	900	900	0
5/23/2024 22:26	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
5/23/2024 22:26	67805	WLAN_T1	52	0	-52	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/23/2024 22:26	64203	KINZ_T1	0	0	0	0	0	0	0.51	0.59	0	0	0	0	0	0
5/23/2024 22:26	10801	CHIH_T1	2	0	-2	0.15	0	-0.15	-1.73	-1.75	3	3	0	2100	2100	0
5/23/2024 22:26	44601	SALE_T2	1	1	0	0.5	0.8	0.3	0.08	0.02	0	0	0	0	0	0
5/23/2024 22:26	53902	HALI_T2	1	1	0	5.1	5.4	0.3	0	0	0	0	0	0	0	0
5/23/2024 22:26	64201	KINZ_T1	6	7	1	0.38	0.39	0.01	0	0	0	0	0	0	0	0
5/23/2024 22:26	45902	AUBU_T1	0	0	0	0	0	0	-0.82	-0.85	1	1	0	600	600	0
5/23/2024 22:26	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 22:26	64204	KINZ_T1	4	4	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:26	29402	BELT_T1	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:26	15702	TANN_T2	1	1	0	0.7	0	-0.7	-0.37	-0.41	0	0	0	0	0	0
5/23/2024 22:26	53901	HALI_T2	0	1	1	0	0.4	0.4	-1.23	-1.26	0	0	0	0	0	0
5/23/2024 22:27	64202	KINZ_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
5/23/2024 22:27	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.3	-0.2	2	2	0	1800	1800	0
5/23/2024 22:27	64101	REFR_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
5/23/2024 22:27	64204	KINZ_T1	4	4	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:27	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	1	1	0	900	900
5/23/2024 22:27	63402	HONY_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
5/23/2024 22:27	52403	GRPA_T2	3	0	-3	0.7	0	-0.7	0.16	0.14	0	0	0	0	0	0
5/23/2024 22:27	64802	MONE_T2	47	14	-33	0.14	0.16	0.02	0.41	0.33	0	0	0	0	0	0
5/23/2024 22:27	57401	SPAN_T1	0	0	0	0	0	0	-0.99	-0.83	1	1	0	600	600	0
5/23/2024 22:27	67702	WERN_T2	0	0	0	0	0	0	0.05	-0.01	0	0	0	0	0	0
5/23/2024 22:27	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:27	43302	WATS_T2	4	4	0	0.58	0.3	-0.28	0	0	0	0	0	0	0	0
5/23/2024 22:27	24105	EHAZ_T1	4	4	0	5.35	5.23	-0.12	-1.78	-0.51	1	1	0	1200	1200	0
5/23/2024 22:27	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/23/2024 22:27	10805	CHIH_T2	1	1	0	7.6	7.8	0.2	-1.28	-1.28	1	1	0	600	600	0
5/23/2024 22:27	45902	AUBU_T1	0	0	0	0	0	0	-0.82	-0.85	1	1	0	600	600	0
5/23/2024 22:27	43304	WATS_T2	2	0	-2	0.9	0	-0.9	0	0	0	0	0	0	0	0
5/23/2024 22:27	40302	TAMA_T3	0	0	0	0	0	0	-2.44	-2.43	1	1	0	1200	1200	0
5/23/2024 22:27	24102	EHAZ_T1	1	5	4	2.8	2.5	-0.3	0	0	0	0	0	0	0	0
5/23/2024 22:27	61102	BERK_T5	0	0	0	0	0	0	0.11	0.09	1	1	0	300	300	0
5/23/2024 22:27	63403	HONY_T2	0	0	0	0	0	0	0.19	0.22	0	0	0	0	0	0
5/23/2024 22:27	23901	ERMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 22:27	10801	CHIH_T1	2	0	-2	0.15	0	-0.15	-1.73	-1.75	3	3	0	2100	2100	0
5/23/2024 22:27	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 22:27	64203	KINZ_T1	0	0	0	0	0	0	0.51	0.59	0	0	0	0	0	0
5/23/2024 22:27	61304	EARL_T1	0	0	0	0	0	0	-0.72	-0.7	1	1	0	600	600	0
5/23/2024 22:27	64201	KINZ_T1	6	7	1	0.38	0.39	0.01	0	0	0	0	0	0	0	0
5/23/2024 22:27	64801	MONE_T2	27	30	3	0.22	0.19	-0.03	0	0	0	0	0	0	0	0
5/23/2024 22:28	57401	SPAN_T1	0	0	0	0	0	0	-0.99	-0.83	1	1	0	600	600	0
5/23/2024 22:28	51002	NHAR_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:28	61102	BERK_T5	0	0	0	0	0	0	0.11	0.09	1	1	0	300	300	0
5/23/2024 22:28	62601	ENGL_T1	0	0	0	0	0	0	-0.93	-0.88	0	0	0	0	0	0
5/23/2024 22:28	42802	SELI_T1	0	0	0	0	0	0	-1.11	-1.12	0	0	0	0	0	0
5/23/2024 22:28	23203	HIRU_T2	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
5/23/2024 22:28	54601	SUMM_T2	0	0	0	0	0	0	-1.66	-1.6	2	2	0	2100	2100	0
5/23/2024 22:28	67604	WARW_T1	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
5/23/2024 22:28	67605	WARW_T1	0	0	0	0	0	0	-1.09	-1.12	0	0	0	0	0	0
5/23/2024 22:28	67702	WERN_T2	0	0	0	0	0	0	0.05	-0.01	0	0	0	0	0	0
5/23/2024 22:28	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/23/2024 22:28	13901	SEID_T1	0	0	0	0	0	0	-0.75	0.53	1	0	-1	1200	0	-1200
5/23/2024 22:28	51505	SWAT_T2	0	0	0	0	0	0	0.41	0.47	0	0	0	0	0	0
5/23/2024 22:28	50701	SMEC_T1	0	0	0	0	0	0	-0.56	-0.51	0	0	0	0	0	0
5/23/2024 22:28	51004	NHAR_T1	1	1	0	6.4	6.3	-0.1	-1.53	-1.58	0	0	0	0	0	0
5/23/2024 22:28	62605	ENGL_T1	0	0	0	0	0	0	-0.45	-0.51	0	0	0	0	0	0
5/23/2024 22:28	23403	HONE_T1	0	0	0	0	0	0	-0.71	-0.74	0	0	0	0	0	0
5/23/2024 22:28	62607	ENGL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 22:29	15203	SFAR_T2	5	5	0	0.12	0.18	0.06	0	0	0	0	0	0	0	0
5/23/2024 22:29	63305	GREE_T1	2	0	-2	0.15	0	-0.15	-1.08	-0.87	0	0	0	0	0	0
5/23/2024 22:29	16102	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/23/2024 22:29	55101	WERT_T1	0	0	0	0	0	0	-1.9	-1.91	3	3	0	2400	2400	0
5/23/2024 22:29	54601	SUMM_T2	0	0	0	0	0	0	-1.66	-1.6	2	2	0	2100	2100	0
5/23/2024 22:29	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
5/23/2024 22:29	53903	HALI_T2	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
5/23/2024 22:29	15204	SFAR_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
5/23/2024 22:29	56801	BENV_T1	4	13	9	0.5	0.65	0.15	0	0	0	0	0	0	0	0
5/23/2024 22:29	16101	BING_T2	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
5/23/2024 22:29	11507	FREE_T2	0	0	0	0	0	0	1.08	0.99	0	0	0	0	0	0
5/23/2024 22:29	55002	NEWP_T1	3	2	-1	0.47	0.45	-0.02	-0.2	-0.23	0	0	0	0	0	0
5/23/2024 22:29	46802	HEPB_T1	2	1	-1	0.4	0.5	0.1	-0.11	-0.19	0	0	0	0	0	0
5/23/2024 22:29	56802	BENV_T2	0	1	1	0	0.4	0.4	-1.27	-1.3	0	0	0	0	0	0
5/23/2024 22:29	61102	BERK_T5	0	0	0	0	0	0	0.33	0.27	3	3	0	900	900	0
5/23/2024 22:29	67605	WARW_T1	0	0	0	0	0	0	-1.09	-1.12	0	0	0	0	0	0
5/23/2024 22:29	53901	HALI_T2	0	1	1	0	0.4	0.4	-1.23	-1.26	0	0	0	0	0	0
5/23/2024 22:29	59302	MCAL_T1	0	0	0	0	0	0	-0.2	-0.29	1	1	0	600	600	0
5/23/2024 22:29	56803	BENV_T1	0	0	0	0	0	0	-0.04	-0.05	1	1	0	600	600	0
5/23/2024 22:29	63304	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/23/2024 22:29	53902	HALI_T2	1	1	0	5.1	5.4	0.3	0	0	0	0	0	0	0	0
5/23/2024 22:30	48302	ORWI_T2	2	2	0	1.15	1.3	0.15	-0.59	-0.61	0	0	0	0	0	0
5/23/2024 22:30	66502	SMAN_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
5/23/2024 22:30	62607	ENGL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/23/2024 22:30	54202	PENN_T2	0	0	0	0	0	0	0.84	0.83	0	0	0	0	0	0
5/23/2024 22:30	67803	WLAN_T1	0	0	0	0	0	0	-0.59	-0.63	0	0	0	0	0	0
5/23/2024 22:30	57104	SPHI_T2	1	1	0	7.1	3.5	-3.6	-1.61	-1.65	1	1	0	900	900	0
5/23/2024 22:30	57101	SPHI_T2	6	6	0	0.27	1.3	1.03	0	0	0	0	0	0	0	0
5/23/2024 22:30	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/23/2024 22:30	57401	SPAN_T1	0	0	0	0	0	0	-1.98	-1.65	2	2	0	1200	1200	0
5/23/2024 22:30	53601	DALM_T2	1	1	0	0.7	1	0.3	-0.08	-0.08	0	0	0	0	0	0
5/23/2024 22:30	67602	WARW_T2	0	0	0	0	0	0	-0.18	-0.11	2	2	0	1500	1500	0
5/23/2024 22:30	57106	SPHI_T2	3	3	0	1.23	1.43	0.2	0	0	0	0	0	0	0	0
5/23/2024 22:30	67604	WARW_T1	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
5/23/2024 22:30	62605	ENGL_T1	0	0	0	0	0	0	-0.45	-0.51	0	0	0	0	0	0
5/23/2024 22:30	62102	ELAN_T1	0	0	0	0	0	0	1.07	1.06	0	0	0	0	0	0
5/23/2024 22:30	44502	HAMI_T2	1	1	0	3.2	3.1	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/23/2024 22:30	55002	NEWP_T1	2	2	0	0.45	0.65	0.2	-0.2	-0.23	0	0	0	0	0	0
5/23/2024 22:30	50701	SMEC_T1	0	0	0	0	0	0	-0.56	-0.51	0	0	0	0	0	0
5/23/2024 22:30	26603	BROO_T1	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
5/23/2024 22:30	67605	WARW_T1	0	0	0	0	0	0	-1.09	-1.12	0	0	0	0	0	0
5/23/2024 22:30	64101	REFR_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
5/23/2024 22:31	63306	GREE_T1	0	0	0	0	0	0	-2.14	-2.18	0	0	0	0	0	0
5/23/2024 22:31	43504	WWIL_T1	13	2	-11	0.3	0.1	-0.2	0.73	0.69	0	0	0	0	0	0
5/23/2024 22:31	15702	TANN_T2	1	0	-1	0.2	0	-0.2	-0.37	-0.41	0	0	0	0	0	0
5/23/2024 22:31	17804	GILB_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
5/23/2024 22:31	53601	DALM_T2	1	1	0	0.7	1	0.3	-0.08	-0.08	0	0	0	0	0	0
5/23/2024 22:31	63305	GREE_T1	0	0	0	0	0	0	-1.08	-0.87	0	0	0	0	0	0
5/23/2024 22:31	29402	BELT_T1	1	1	0	6.6	7.1	0.5	0	0	0	0	0	0	0	0
5/23/2024 22:31	11101	EGYP_T1	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
5/23/2024 22:31	43505	WWIL_T1	1	1	0	3.1	2.6	-0.5	0	0	0	0	0	0	0	0
5/23/2024 22:31	10702	CATA_T2	0	0	0	0	0	0	-0.26	-0.34	0	0	0	0	0	0
5/23/2024 22:31	59101	WALK_T2	0	38	38	0	0.26	0.26	-0.56	-0.51	0	0	0	0	0	0
5/23/2024 22:31	44502	HAMI_T2	1	1	0	3.2	3.1	-0.1	-0.74	-0.75	0	0	0	0	0	0
5/23/2024 22:31	24702	FLND_T2	0	0	0	0	0	0	0.89	1.08	0	0	0	0	0	0
5/23/2024 22:31	16102	BING_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
5/23/2024 22:31	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/23/2024 22:31	64101	REFR_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
5/23/2024 22:31	15703	TANN_T2	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
5/23/2024 22:31	49804	UNIV_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:31	45902	AUBU_T1	0	0	0	0	0	0	-0.82	-0.85	1	1	0	600	600	0
5/23/2024 22:31	49803	UNIV_T1	0	0	0	0	0	0	-0.97	-1.01	0	0	0	0	0	0
5/23/2024 22:31	67804	WLAN_T1	0	0	0	0	0	0	-0.8	-0.83	0	0	0	0	0	0
5/23/2024 22:31	11104	EGYP_T1	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
5/23/2024 22:31	63304	GREE_T1	0	0	0	0	0	0	-0.19	-0.28	0	0	0	0	0	0
5/23/2024 22:31	43506	WWIL_T1	1	1	0	1.6	1	-0.6	0	0	0	0	0	0	0	0
5/23/2024 22:31	57401	SPAN_T1	0	0	0	0	0	0	-0.99	-0.83	1	1	0	600	600	0
5/23/2024 22:31	42503	ALTA_T2	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
5/23/2024 22:32	63804	HEMP_T1	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
5/23/2024 22:32	67402	WAKE_T2	1	0	-1	0.2	0	-0.2	0.45	0.36	0	0	0	0	0	0
5/23/2024 22:32	12701	MACU_T1	0	0	0	0	0	0	-1.06	-1.08	1	1	0	1200	1200	0
5/23/2024 22:32	29402	BELT_T1	1	1	0	6.6	7.1	0.5	0	0	0	0	0	0	0	0
5/23/2024 22:32	45902	AUBU_T1	0	0	0	0	0	0	-1.64	-1.7	2	2	0	1200	1200	0
5/23/2024 22:32	53803	MBRG_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/23/2024 22:32	53502	EVIL_T2	0	0	0	0	0	0	-0.35	-0.42	2	2	0	1200	1200	0
5/23/2024 22:32	12502	MITR_T2	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
5/23/2024 22:32	24104	EHAZ_T1	0	0	0	0	0	0	-0.89	-0.88	1	1	0	1200	1200	0
5/23/2024 22:32	24105	EHAZ_T1	4	4	0	5.23	5.85	0.62	0	0	0	0	0	0	0	0
5/23/2024 22:32	43201	MVIL_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
5/23/2024 22:32	42902	MIDD_T2	17	57	40	0.26	0.41	0.15	-0.36	-0.33	0	0	0	0	0	0
5/23/2024 22:32	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/23/2024 22:32	45501	DERR_T2	1	1	0	0.2	0.3	0.1	-0.3	-0.2	2	2	0	1800	1800	0
5/23/2024 22:32	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:32	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/23/2024 22:32	63801	HEMP_T1	0	0	0	0	0	0	-0.36	-0.53	1	1	0	900	900	0
5/23/2024 22:32	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 22:32	67702	WERN_T2	0	0	0	0	0	0	0.05	-0.01	0	0	0	0	0	0
5/23/2024 22:32	67401	WAKE_T2	130	0	-130	0.39	0	-0.39	0	0	0	0	0	0	0	0
5/23/2024 22:32	52402	GRPA_T2	0	1	1	0	0.1	0.1	-0.75	-0.77	0	0	0	0	0	0
5/23/2024 22:32	58401	MORO_T1	0	0	0	0	0	0	-1.54	-1.6	2	2	0	1200	1200	0
5/23/2024 22:32	42903	MIDD_T2	2	2	0	1.85	2.4	0.55	0	0	0	0	0	0	0	0
5/23/2024 22:32	44601	SALE_T2	1	1	0	0.6	0.8	0.2	0.08	0.02	0	0	0	0	0	0
5/23/2024 22:32	24102	EHAZ_T1	5	6	1	1.12	2.5	1.38	0	0	0	0	0	0	0	0
5/23/2024 22:32	42901	MIDD_T2	2	166	164	0.1	0.27	0.17	0	0	0	0	0	0	0	0
5/23/2024 22:32	61102	BERK_T5	0	0	0	0	0	0	0.11	0.09	1	1	0	300	300	0
5/23/2024 22:32	53501	EVIL_T2	2	2	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
5/23/2024 22:32	45502	DERR_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/23/2024 22:32	10805	CHHI_T2	1	1	0	7.9	7.4	-0.5	-1.28	-1.28	1	1	0	600	600	0
5/23/2024 22:32	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 22:32	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 22:32	12505	MITR_T2	0	0	0	0	0	0	1.09	1.06	0	0	0	0	0	0
5/23/2024 22:32	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 22:33	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/23/2024 22:33	58001	WCAR_T1	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
5/23/2024 22:33	67602	WARW_T2	0	0	0	0	0	0	-0.18	-0.11	2	2	0	1500	1500	0
5/23/2024 22:33	54601	SUMM_T2	0	2	2	0	0.15	0.15	-1.66	-1.6	2	2	0	2100	2100	0
5/23/2024 22:33	67702	WERN_T2	0	0	0	0	0	0	0.05	-0.01	0	0	0	0	0	0
5/23/2024 22:33	50506	MECH_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
5/23/2024 22:33	50501	MECH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/23/2024 22:33	44301	BEAV_T2	0	0	0	0	0	0	0.39	0.39	1	1	0	600	600	0
5/23/2024 22:33	45702	LIND_T2	1	0	-1	0.4	0	-0.4	-0.38	-0.4	0	0	0	0	0	0
5/23/2024 22:33	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 22:33	63804	HEMP_T1	1	1	0	5.8	5.5	-0.3	-0.19	-0.19	0	0	0	0	0	0
5/23/2024 22:33	54505	ENOL_T2	0	0	0	0	0	0	-1.02	-1.03	1	1	0	600	600	0
5/23/2024 22:33	60501	NMAN_T2	3	3	0	3.97	4.07	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:33	24801	VALM_T1	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
5/23/2024 22:33	13501	MCMI_T1	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
5/23/2024 22:33	50502	MECH_T1	1	1	0	0.9	1.5	0.6	0	0	0	0	0	0	0	0
5/23/2024 22:33	12502	MITR_T2	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
5/23/2024 22:33	67203	TEHI_T1	0	1	1	0	0	0	2.3	2.28	2	2	0	1500	1500	0
5/23/2024 22:33	56802	BENV_T2	1	1	0	0.2	0.5	0.3	-1.27	-1.3	0	0	0	0	0	0
5/23/2024 22:33	10707	CATA_T2	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
5/23/2024 22:33	64101	REFR_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
5/23/2024 22:33	45902	AUBU_T1	0	0	0	0	0	0	-0.82	-0.85	1	1	0	600	600	0
5/23/2024 22:33	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
5/23/2024 22:33	40902	JESH_T1	0	0	0	0	0	0	-2.32	-2.01	1	1	0	600	600	0
5/23/2024 22:33	42201	SHEN_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
5/23/2024 22:33	58003	WCAR_T1	1	1	0	0.8	1.3	0.5	2.1	2.19	0	0	0	0	0	0
5/23/2024 22:33	60502	NMAN_T2	0	0	0	0	0	0	-0.09	-0.16	0	0	0	0	0	0
5/23/2024 22:33	12505	MITR_T2	0	0	0	0	0	0	1.09	1.06	0	0	0	0	0	0
5/23/2024 22:33	67605	WARW_T1	0	0	0	0	0	0	-1.09	-1.12	0	0	0	0	0	0
5/23/2024 22:34	42902	MIDD_T2	17	57	40	0.26	0.41	0.15	-0.36	-0.33	0	0	0	0	0	0
5/23/2024 22:34	58102	NEKI_T1	1	1	0	0.1	0.6	0.5	-0.97	-1.37	0	0	0	0	0	0
5/23/2024 22:34	60101	COCA_T1	0	0	0	0	0	0	0.54	0.5	0	0	0	0	0	0
5/23/2024 22:34	48302	ORWI_T2	2	2	0	1.15	1.3	0.15	0	0	0	0	0	0	0	0
5/23/2024 22:34	44502	HAMI_T2	1	1	0	3.2	3.1	-0.1	0	0	0	0	0	0	0	0
5/23/2024 22:34	42901	MIDD_T2	2	166	164	0.1	0.27	0.17	0	0	0	0	0	0	0	0
5/23/2024 22:34	46801	HEPB_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/23/2024 22:34	53903	HALI_T2	2	2	0	1	1.6	0.6	0	0	0	0	0	0	0	0
5/23/2024 22:34	14603	SWHI_T1	0	4	4	0	0.1	0.1	-0.98	-1.04	1	1	0	600	600	0
5/23/2024 22:34	64101	REFR_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
5/23/2024 22:34	45402	WBLO_T2	20	66	46	0.26	0.42	0.16	-1.62	-1.68	0	0	0	0	0	0
5/23/2024 22:34	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/23/2024 22:34	45702	LIND_T2	1	0	-1	0.4	0	-0.4	-0.38	-0.4	0	0	0	0	0	0
5/23/2024 22:34	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	900	900	0
5/23/2024 22:34	61102	BERK_T5	0	0	0	0	0	0	0.11	0.09	1	1	0	300	300	0
5/23/2024 22:34	67605	WARW_T1	0	0	0	0	0	0	-1.09	-1.12	0	0	0	0	0	0
5/23/2024 22:34	46803	HEPB_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
5/23/2024 22:34	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:34	53901	HALI_T2	1	1	0	0.1	0.6	0.5	-1.23	-1.26	0	0	0	0	0	0
5/23/2024 22:34	67401	WAKE_T2	130	0	-130	0.39	0	-0.39	0	0	0	0	0	0	0	0
5/23/2024 22:34	42903	MIDD_T2	2	2	0	1.85	2.4	0.55	0	0	0	0	0	0	0	0
5/23/2024 22:34	67402	WAKE_T2	1	0	-1	0.2	0	-0.2	0.45	0.36	0	0	0	0	0	0
5/23/2024 22:35	16301	ALPA_T1	2	26	24	0.3	0.2	-0.1	-0.05	-0.09	0	0	0	0	0	0
5/23/2024 22:35	67203	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 22:35	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/23/2024 22:35	58006	WCAR_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
5/23/2024 22:35	61102	BERK_T5	0	0	0	0	0	0	0.11	0.09	1	1	0	300	300	0
5/23/2024 22:35	21203	ECAR_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
5/23/2024 22:35	20603	GRWO_T2	34	62	28	0.35	0.39	0.04	0.47	0.45	0	0	0	0	0	0
5/23/2024 22:35	60501	NMAN_T2	3	3	0	3.97	4.07	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:35	67804	WLAN_T1	0	0	0	0	0	0	-0.8	-0.83	0	0	0	0	0	0
5/23/2024 22:35	67201	TEHI_T1	0	0	0	0	0	0	0.26	0.22	1	1	0	600	600	0
5/23/2024 22:35	45902	AUBU_T1	0	0	0	0	0	0	-0.82	-0.85	1	1	0	600	600	0
5/23/2024 22:35	60502	NMAN_T2	0	0	0	0	0	0	-0.09	-0.16	0	0	0	0	0	0
5/23/2024 22:35	20601	GRWO_T2	7	86	79	0.14	0.21	0.07	0	0	0	0	0	0	0	0
5/23/2024 22:35	44502	HAMI_T2	1	1	0	3.2	3.1	-0.1	0	0	0	0	0	0	0	0
5/23/2024 22:35	42701	AUGU_T1	1	1	0	0.2	0.6	0.4	0	0	2	2	0	1800	1800	0
5/23/2024 22:36	43302	WATS_T2	4	4	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
5/23/2024 22:36	43103	SMIL_T2	4	13	9	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
5/23/2024 22:36	56801	BENV_T1	11	13	2	0.49	0.95	0.46	-0.8	-0.84	1	1	0	600	600	0
5/23/2024 22:36	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
5/23/2024 22:36	58003	WCAR_T1	1	1	0	0.8	1.3	0.5	0.7	0.73	0	0	0	0	0	0
5/23/2024 22:36	53901	HALI_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
5/23/2024 22:36	64202	KINZ_T1	4	0	-4	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/23/2024 22:36	65802	RTWN_T2	0	0	0	0	0	0	0.22	0.18	0	0	0	0	0	0
5/23/2024 22:36	67702	WERN_T2	0	0	0	0	0	0	0.05	-0.01	0	0	0	0	0	0
5/23/2024 22:36	62602	ENGL_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
5/23/2024 22:36	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 22:36	64201	KINZ_T1	7	1	-6	0.39	0.6	0.21	0	0	0	0	0	0	0	0
5/23/2024 22:36	12701	MACU_T1	0	0	0	0	0	0	-1.06	-1.08	1	1	0	1200	1200	0
5/23/2024 22:36	53903	HALI_T2	2	2	0	1	1.6	0.6	-0.09	-0.14	0	0	0	0	0	0
5/23/2024 22:36	62607	ENGL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/23/2024 22:36	26601	BROO_T1	0	0	0	0	0	0	-0.2	-0.21	1	1	0	600	600	0
5/23/2024 22:36	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 22:36	43801	SWIL_T1	6	2	-4	1.18	3.2	2.02	0	0	0	0	0	0	0	0
5/23/2024 22:36	58001	WCAR_T1	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
5/23/2024 22:36	66503	SMAN_T2	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
5/23/2024 22:36	64204	KINZ_T1	4	1	-3	0.35	0.8	0.45	0	0	0	0	0	0	0	0
5/23/2024 22:36	43102	SMIL_T2	6	6	0	0.53	0.45	-0.08	-0.72	-0.72	1	1	0	600	600	0
5/23/2024 22:36	56802	BENV_T2	1	1	0	0.2	0.5	0.3	-1.27	-1.3	0	0	0	0	0	0
5/23/2024 22:36	12601	MACA_T1	0	0	0	0	0	0	1.04	0.99	0	0	0	0	0	0
5/23/2024 22:36	20601	GRWO_T2	7	86	79	0.14	0.21	0.07	-0.11	-0.23	0	0	0	0	0	0
5/23/2024 22:36	43105	SMIL_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/23/2024 22:36	55002	NEWP_T1	2	2	0	0.45	0.65	0.2	-0.2	-0.23	0	0	0	0	0	0
5/23/2024 22:36	58402	MORO_T1	0	0	0	0	0	0	-0.25	-0.28	2	2	0	1500	1500	0
5/23/2024 22:36	45902	AUBU_T1	0	0	0	0	0	0	-0.82	-0.85	1	1	0	600	600	0
5/23/2024 22:36	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 22:36	43802	SWIL_T1	0	0	0	0	0	0	0	-0.11	1	1	0	600	600	0
5/23/2024 22:36	64203	KINZ_T1	0	0	0	0	0	0	0.51	0.59	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/23/2024 22:36	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:36	20603	GRWO_T2	34	62	28	0.35	0.39	0.04	0	0	0	0	0	0	0	0
5/23/2024 22:36	44301	BEAV_T2	0	0	0	0	0	0	0.39	0.39	1	1	0	600	600	0
5/23/2024 22:37	52404	GRPA_T2	0	0	0	0	0	0	0.7	0.66	0	0	0	0	0	0
5/23/2024 22:37	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:37	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:37	53903	HALI_T2	2	2	0	1	1.6	0.6	-0.09	-0.14	0	0	0	0	0	0
5/23/2024 22:37	67703	WERN_T2	0	0	0	0	0	0	0.04	0.04	1	1	0	900	900	0
5/23/2024 22:37	12701	MACU_T1	0	0	0	0	0	0	-1.06	-1.08	1	1	0	1200	1200	0
5/23/2024 22:37	45501	DERR_T2	1	1	0	0.2	0.3	0.1	-0.3	-0.2	2	2	0	1800	1800	0
5/23/2024 22:37	59202	THOM_T1	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
5/23/2024 22:37	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:37	63302	GREE_T1	0	0	0	0	0	0	0.55	0.4	0	0	0	0	0	0
5/23/2024 22:37	43102	SMIL_T2	6	6	0	0.53	0.45	-0.08	-0.72	-0.72	1	1	0	600	600	0
5/23/2024 22:37	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:37	60501	NMAN_T2	3	3	0	3.97	4.07	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:37	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/23/2024 22:37	20401	ASHF_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
5/23/2024 22:37	67605	WARW_T1	0	0	0	0	0	0	-1.09	-1.12	0	0	0	0	0	0
5/23/2024 22:37	45502	DERR_T2	1	1	0	0.1	0.3	0.2	-0.58	-0.58	0	0	0	0	0	0
5/23/2024 22:37	53901	HALI_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
5/23/2024 22:37	43105	SMIL_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/23/2024 22:37	60502	NMAN_T2	0	0	0	0	0	0	-0.09	-0.16	0	0	0	0	0	0
5/23/2024 22:37	45402	WBLO_T2	20	66	46	0.26	0.42	0.16	-1.62	-1.68	0	0	0	0	0	0
5/23/2024 22:37	20403	ASHF_T2	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
5/23/2024 22:37	43103	SMIL_T2	4	13	9	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
5/23/2024 22:37	40902	JESH_T1	0	0	0	0	0	0	-2.32	-2.01	1	1	0	600	600	0
5/23/2024 22:37	42201	SHEN_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
5/23/2024 22:37	42501	ALTA_T2	0	0	0	0	0	0	-1.05	-1.05	1	1	0	600	600	0
5/23/2024 22:37	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 22:37	44502	HAMI_T2	1	1	0	3.2	3.1	-0.1	0	0	0	0	0	0	0	0
5/23/2024 22:37	10801	CHHI_T1	0	0	0	0	0	0	-1.73	-1.75	3	3	0	2100	2100	0
5/23/2024 22:38	42903	MIDD_T2	2	2	0	1.85	2.4	0.55	0	0	0	0	0	0	0	0
5/23/2024 22:38	42901	MIDD_T2	2	166	164	0.1	0.27	0.17	0	0	0	0	0	0	0	0
5/23/2024 22:38	42902	MIDD_T2	17	57	40	0.26	0.41	0.15	-0.36	-0.33	0	0	0	0	0	0
5/23/2024 22:38	56801	BENV_T1	11	13	2	0.49	0.95	0.46	-0.84	-0.87	1	1	0	600	600	0
5/23/2024 22:38	61102	BERK_T5	0	0	0	0	0	0	0.09	0	1	1	0	300	300	0
5/23/2024 22:38	50701	SMEC_T1	0	0	0	0	0	0	-0.51	-0.6	0	0	0	0	0	0
5/23/2024 22:38	59101	WALK_T2	0	38	38	0	0.26	0.26	-0.51	-0.51	0	0	0	0	0	0
5/23/2024 22:38	14403	SSLA_T1	0	0	0	0	0	0	0.85	0.8	0	0	0	0	0	0
5/23/2024 22:38	14404	SSLA_T1	1	1	0	4.7	5.2	0.5	0	0	0	0	0	0	0	0
5/23/2024 22:38	15204	SFAR_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
5/23/2024 22:38	54601	SUMM_T2	0	2	2	0	0.15	0.15	-1.6	-1.61	2	2	0	2100	2100	0
5/23/2024 22:38	15203	SFAR_T2	1	9	8	0.1	0.22	0.12	0	0	0	0	0	0	0	0
5/23/2024 22:38	52501	PROG_T1	0	0	0	0	0	0	0.72	0.71	1	1	0	300	300	0
5/23/2024 22:38	42201	SHEN_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
5/23/2024 22:38	46302	ROHR_T1	4	5	1	1.5	1.64	0.14	0.21	0.21	0	0	0	0	0	0
5/23/2024 22:39	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 22:39	53803	MBRG_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
5/23/2024 22:39	42201	SHEN_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
5/23/2024 22:39	27605	PIRI_T2	0	0	0	0	0	0	0.67	0.6	0	0	0	0	0	0
5/23/2024 22:39	42903	MIDD_T2	2	2	0	1.85	2.4	0.55	0	0	0	0	0	0	0	0
5/23/2024 22:39	11104	EGYP_T1	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
5/23/2024 22:39	55002	NEWP_T1	2	2	0	0.45	0.65	0.2	-0.23	-0.23	0	0	0	0	0	0
5/23/2024 22:39	42902	MIDD_T2	17	57	40	0.26	0.41	0.15	-0.33	-0.33	0	0	0	0	0	0
5/23/2024 22:39	52002	LING_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
5/23/2024 22:39	57306	MOAL_T2	0	0	0	0	0	0	-2.91	-2.96	1	1	0	1200	1200	0
5/23/2024 22:39	11103	EGYP_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
5/23/2024 22:39	57303	MOAL_T2	1	1	0	7.8	7.6	-0.2	0	0	0	0	0	0	0	0
5/23/2024 22:39	67605	WARW_T1	0	0	0	0	0	0	-1.12	-1.11	0	0	0	0	0	0
5/23/2024 22:39	44301	BEAV_T2	0	0	0	0	0	0	0.39	0.31	1	1	0	600	600	0
5/23/2024 22:39	42901	MIDD_T2	2	166	164	0.1	0.27	0.17	0	0	0	0	0	0	0	0
5/23/2024 22:40	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:40	52403	GRPA_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
5/23/2024 22:40	63304	GREE_T1	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
5/23/2024 22:40	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:40	58402	MORO_T1	0	0	0	0	0	0	-0.28	-0.31	2	2	0	1500	1500	0
5/23/2024 22:40	61803	LELI_T2	0	0	0	0	0	0	0.13	0.15	1	1	0	600	600	0
5/23/2024 22:40	26603	BROO_T1	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
5/23/2024 22:40	58401	MORO_T1	0	0	0	0	0	0	-1.6	-1.63	2	2	0	1200	1200	0
5/23/2024 22:41	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:41	42903	MIDD_T2	2	2	0	1.85	2.4	0.55	0	0	0	0	0	0	0	0
5/23/2024 22:41	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 22:41	53901	HALI_T2	1	1	0	0.1	0.6	0.5	-1.26	-1.27	0	0	0	0	0	0
5/23/2024 22:41	42902	MIDD_T2	17	57	40	0.26	0.41	0.15	-0.33	-0.33	0	0	0	0	0	0
5/23/2024 22:41	42901	MIDD_T2	2	166	164	0.1	0.27	0.17	0	0	0	0	0	0	0	0
5/23/2024 22:41	56801	BENV_T1	11	13	2	0.49	0.95	0.46	-0.84	-0.87	1	1	0	600	600	0
5/23/2024 22:41	40902	JESH_T1	0	0	0	0	0	0	-2.01	-2	1	1	0	600	600	0
5/23/2024 22:41	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:41	53903	HALI_T2	2	2	0	1	1.6	0.6	0	0	0	0	0	0	0	0
5/23/2024 22:41	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
5/23/2024 22:41	41902	REED_T1	0	0	0	0	0	0	1.11	1.12	0	0	0	0	0	0
5/23/2024 22:41	52402	GRPA_T2	0	1	1	0	0.1	0.1	-0.77	-0.79	0	0	0	0	0	0
5/23/2024 22:41	44301	BEAV_T2	0	0	0	0	0	0	0.39	0.31	1	1	0	600	600	0
5/23/2024 22:41	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/23/2024 22:41	57401	SPAN_T1	0	0	0	0	0	0	-0.83	-0.91	1	1	0	600	600	0
5/23/2024 22:42	53902	HALI_T2	1	1	0	5.3	5.4	0.1	-0.24	-0.19	0	0	0	0	0	0
5/23/2024 22:42	49803	UNIV_T1	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
5/23/2024 22:42	53903	HALI_T2	2	2	0	1	1.6	0.6	-0.14	-0.09	0	0	0	0	0	0
5/23/2024 22:42	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:42	56801	BENV_T1	11	13	2	0.49	0.95	0.46	-1.68	-1.74	2	2	0	1200	1200	0
5/23/2024 22:42	53901	HALI_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
5/23/2024 22:42	53802	MBRG_T2	0	0	0	0	0	0	0.14	0.21	0	0	0	0	0	0
5/23/2024 22:42	60101	COCA_T1	0	0	0	0	0	0	0.5	0.45	0	0	0	0	0	0
5/23/2024 22:42	41902	REED_T1	0	0	0	0	0	0	1.11	1.12	0	0	0	0	0	0
5/23/2024 22:42	52402	GRPA_T2	0	1	1	0	0.1	0.1	-0.77	-0.79	0	0	0	0	0	0
5/23/2024 22:42	49804	UNIV_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:42	58401	MORO_T1	0	0	0	0	0	0	-1.6	-1.63	2	2	0	1200	1200	0
5/23/2024 22:42	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/23/2024 22:43	56802	BENV_T2	1	1	0	0.2	0.5	0.3	-3.9	-3.93	0	0	0	0	0	0
5/23/2024 22:43	42901	MIDD_T2	2	166	164	0.1	0.27	0.17	0	0	0	0	0	0	0	0
5/23/2024 22:43	42903	MIDD_T2	2	2	0	1.85	2.4	0.55	0	0	0	0	0	0	0	0
5/23/2024 22:43	42902	MIDD_T2	17	57	40	0.26	0.41	0.15	-0.66	-0.66	0	0	0	0	0	0
5/23/2024 22:43	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/23/2024 22:43	67605	WARW_T1	0	0	0	0	0	0	-1.12	-1.11	0	0	0	0	0	0
5/23/2024 22:43	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
5/23/2024 22:44	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	900	900	0
5/23/2024 22:45	59101	WALK_T2	0	61	61	0	0.76	0.76	-0.51	-0.51	0	0	0	0	0	0
5/23/2024 22:45	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:46	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	900	900	0
5/23/2024 22:47	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	900	900	0
5/23/2024 22:47	53902	HALI_T2	1	1	0	5.4	5.7	0.3	0	0	0	0	0	0	0	0
5/23/2024 22:47	52403	GRPA_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
5/23/2024 22:47	53901	HALI_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/23/2024 22:47	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/23/2024 22:47	52402	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/23/2024 22:47	53903	HALI_T2	2	2	0	1.2	1.6	0.4	-0.14	-0.09	0	0	0	0	0	0
5/23/2024 22:48	59201	THOM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/23/2024 22:48	59202	THOM_T1	0	13	13	0	0.12	0.12	0	0	0	0	0	0	0	0
5/23/2024 23:00	40101	HUNT_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
5/23/2024 23:04	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/23/2024 23:04	29402	BELT_T1	1	1	0	7.1	7.4	0.3	0	0	0	0	0	0	0	0
5/23/2024 23:04	65205	PRIN_T1	1	1	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
5/23/2024 23:11	13905	SEID_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	1200	1200	0
5/23/2024 23:12	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/23/2024 23:12	64203	KINZ_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
5/23/2024 23:12	64201	KINZ_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/23/2024 23:13	64203	KINZ_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
5/23/2024 23:13	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/23/2024 23:13	64201	KINZ_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/23/2024 23:31	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
5/23/2024 23:32	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
5/23/2024 23:49	63306	GREE_T1	0	0	0	0	0	0	-1.17	-1.15	0	0	0	0	0	0
5/23/2024 23:54	64202	KINZ_T1	0	0	0	0	0	0	0.76	0.76	0	0	0	0	0	0
5/23/2024 23:54	64201	KINZ_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/23/2024 23:54	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
5/23/2024 23:54	64204	KINZ_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
5/23/2024 23:55	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
5/24/2024 0:04	53903	HALI_T2	2	2	0	1.3	1.3	0	-0.14	-0.21	0	0	0	0	0	0
5/24/2024 0:04	53902	HALI_T2	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
5/24/2024 0:04	53901	HALI_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/24/2024 0:17	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
5/24/2024 0:18	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
5/24/2024 0:40	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.94	1	1	0	900	900	0
5/24/2024 0:41	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.94	1	1	0	900	900	0
5/24/2024 1:03	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.96	1	1	0	900	900	0
5/24/2024 1:04	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.96	1	1	0	900	900	0
5/24/2024 1:23	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	900	900	0
5/24/2024 1:24	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	900	900	0
5/24/2024 1:46	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	900	900	0
5/24/2024 1:47	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	900	900	0
5/24/2024 2:10	43402	BENT_T1	0	0	0	0	0	0	-0.97	-0.98	1	1	0	900	900	0
5/24/2024 2:11	43402	BENT_T1	0	0	0	0	0	0	-0.97	-0.98	1	1	0	900	900	0
5/24/2024 2:52	66504	SMAN_T2	0	0	0	0	0	0	-0.96	-1.01	0	0	0	0	0	0
5/24/2024 3:24	60101	COCA_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
5/24/2024 3:55	67605	WARW_T1	27	29	2	0.66	0.61	-0.05	0	0	0	0	0	0	0	0
5/24/2024 3:55	67603	WARW_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
5/24/2024 4:10	65901	SAKR_T2	1	1	0	9.2	9.1	-0.1	-1.31	-1.31	1	1	0	900	900	0
5/24/2024 5:05	46801	HEPB_T2	0	0	0	0	0	0	0.48	0.51	0	0	0	0	0	0
5/24/2024 6:13	29402	BELT_T1	1	1	0	7.6	7.2	-0.4	0	0	0	0	0	0	0	0
5/24/2024 6:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/24/2024 6:36	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 6:40	29402	BELT_T1	1	1	0	7	7.7	0.7	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/24/2024 6:40	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/24/2024 6:53	67703	WERN_T2	0	0	0	0	0	0	-0.59	-0.2	1	1	0	900	900	0
5/24/2024 6:54	29402	BELT_T1	1	1	0	7.7	7.5	-0.2	0	0	0	0	0	0	0	0
5/24/2024 6:54	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/24/2024 6:55	67501	WEWI_T1	62	68	6	0.25	0.26	0.01	-1.17	-1.1	1	1	0	600	600	0
5/24/2024 6:55	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/24/2024 6:55	29402	BELT_T1	1	1	0	7.7	7.5	-0.2	0	0	0	0	0	0	0	0
5/24/2024 6:55	67703	WERN_T2	0	0	0	0	0	0	-0.59	-0.2	1	1	0	900	900	0
5/24/2024 6:56	20403	ASHF_T2	0	0	0	0	0	0	1.16	1.51	0	0	0	0	0	0
5/24/2024 6:56	67703	WERN_T2	0	0	0	0	0	0	-0.59	-0.2	1	1	0	900	900	0
5/24/2024 6:56	60902	DONG_T2	0	0	0	0	0	0	0.89	0.95	0	0	0	0	0	0
5/24/2024 6:58	15203	SFAR_T2	0	0	0	0	0	0	-2.42	-2.3	0	0	0	0	0	0
5/24/2024 7:00	67501	WEWI_T1	46	66	20	0.19	0.26	0.07	-1.17	-1.1	1	1	0	600	600	0
5/24/2024 7:05	12601	MACA_T1	0	0	0	0	0	0	0.73	0.77	0	0	0	0	0	0
5/24/2024 7:08	67703	WERN_T2	0	0	0	0	0	0	-0.2	-0.15	1	1	0	900	900	0
5/24/2024 7:09	67703	WERN_T2	0	0	0	0	0	0	-0.2	-0.15	1	1	0	900	900	0
5/24/2024 7:11	20401	ASHF_T2	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
5/24/2024 7:12	60902	DONG_T2	0	0	0	0	0	0	0.95	0.99	0	0	0	0	0	0
5/24/2024 7:12	20403	ASHF_T2	0	0	0	0	0	0	1.51	1.46	0	0	0	0	0	0
5/24/2024 7:16	29402	BELT_T1	1	1	0	7.5	8.4	0.9	0	0	0	0	0	0	0	0
5/24/2024 7:16	29401	BELT_T1	0	28	28	0	0.13	0.13	0	0	1	1	0	900	900	0
5/24/2024 7:18	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
5/24/2024 7:20	64902	MILL_T2	0	0	0	0	0	0	-0.47	-0.45	1	1	0	900	900	0
5/24/2024 7:27	67503	WEWI_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
5/24/2024 7:27	67502	WEWI_T2	105	2	-103	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/24/2024 7:28	15702	TANN_T2	0	0	0	0	0	0	-0.45	-0.37	0	0	0	0	0	0
5/24/2024 7:28	15703	TANN_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
5/24/2024 7:28	67503	WEWI_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
5/24/2024 7:28	67502	WEWI_T2	105	2	-103	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/24/2024 7:32	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/24/2024 7:34	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/24/2024 7:38	13704	SCHN_T2	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
5/24/2024 7:39	14603	SWHI_T1	0	0	0	0	0	0	-1.11	-1.12	1	1	0	600	600	0
5/24/2024 7:41	58006	WCAR_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
5/24/2024 7:43	20401	ASHF_T2	0	4	4	0	0.43	0.43	0	0	0	0	0	0	0	0
5/24/2024 7:43	20403	ASHF_T2	0	15	15	0	0.17	0.17	1.46	1.39	0	0	0	0	0	0
5/24/2024 7:44	29402	BELT_T1	1	1	0	7.7	8.4	0.7	0	0	0	0	0	0	0	0
5/24/2024 7:44	29401	BELT_T1	0	28	28	0	0.13	0.13	0	0	1	1	0	900	900	0
5/24/2024 7:44	61102	BERK_T5	0	0	0	0	0	0	0.23	0.26	1	1	0	300	300	0
5/24/2024 7:44	10801	OHHI_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1500	1500	0
5/24/2024 7:45	64204	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/24/2024 7:45	64203	KINZ_T1	0	0	0	0	0	0	1.61	1.55	1	1	0	600	600	0
5/24/2024 7:47	40101	HUNT_T2	0	0	0	0	0	0	-0.63	-0.61	0	0	0	0	0	0
5/24/2024 7:47	41502	FAIR_T2	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
5/24/2024 7:48	42001	MNVL_T2	1	0	-1	0.2	0	-0.2	0.04	0.04	0	0	0	0	0	0
5/24/2024 7:48	42002	MNVL_T2	1	1	0	2.1	2.4	0.3	0	0	0	0	0	0	0	0
5/24/2024 7:51	42002	MNVL_T2	1	1	0	2.1	2.4	0.3	0	0	0	0	0	0	0	0
5/24/2024 7:51	42001	MNVL_T2	1	0	-1	0.2	0	-0.2	0.04	0.04	0	0	0	0	0	0
5/24/2024 7:53	67703	WERN_T2	0	0	0	0	0	0	-0.06	-0.05	1	1	0	900	900	0
5/24/2024 7:54	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/24/2024 7:55	67703	WERN_T2	0	0	0	0	0	0	-0.12	-0.1	2	2	0	1800	1800	0
5/24/2024 7:56	58006	WCAR_T2	0	0	0	0	0	0	0.35	0.39	0	0	0	0	0	0
5/24/2024 7:56	56803	BENV_T1	2	3	1	1.45	0	-1.45	-0.11	-0.11	0	0	0	0	0	0
5/24/2024 7:56	56801	BENV_T1	15	15	0	0.95	1.17	0.22	0	0	0	0	0	0	0	0
5/24/2024 7:57	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/24/2024 7:58	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/24/2024 8:06	65206	PRIN_T4	1	0	-1	2.3	0	-2.3	0	0	0	0	0	0	0	0
5/24/2024 8:06	65201	PRIN_T4	3	3	0	0.5	0.2	-0.3	0	0	1	1	0	600	600	0
5/24/2024 8:08	67804	WLAN_T1	0	0	0	0	0	0	-1.07	-1.05	0	0	0	0	0	0
5/24/2024 8:09	20401	ASHF_T2	4	4	0	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
5/24/2024 8:09	67804	WLAN_T1	0	0	0	0	0	0	-1.07	-1.05	0	0	0	0	0	0
5/24/2024 8:09	20403	ASHF_T2	15	0	-15	0.17	0	-0.17	1.27	1.51	0	0	0	0	0	0
5/24/2024 8:10	67803	WLAN_T1	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
5/24/2024 8:11	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 8:11	67804	WLAN_T1	0	0	0	0	0	0	-1.07	-1.05	0	0	0	0	0	0
5/24/2024 8:12	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 8:13	67804	WLAN_T1	0	0	0	0	0	0	-1.07	-1.05	0	0	0	0	0	0
5/24/2024 8:14	29402	BELT_T1	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
5/24/2024 8:14	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/24/2024 8:18	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/24/2024 8:21	46301	ROHR_T1	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
5/24/2024 8:21	46302	ROHR_T1	4	5	1	2.5	1.96	-0.54	0	0	0	0	0	0	0	0
5/24/2024 8:23	58006	WCAR_T2	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
5/24/2024 8:25	61101	BERK_T5	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/24/2024 8:25	61103	BERK_T5	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
5/24/2024 8:26	67801	WLAN_T1	0	0	0	0	0	0	0.29	0.21	0	0	0	0	0	0
5/24/2024 8:26	67805	WLAN_T1	0	0	0	0	0	0	-0.83	-0.85	0	0	0	0	0	0
5/24/2024 8:27	45402	WBLO_T2	82	80	-2	0.66	0.57	-0.09	-1.61	-1.6	0	0	0	0	0	0
5/24/2024 8:27	61101	BERK_T5	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/24/2024 8:27	61103	BERK_T5	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
5/24/2024 8:27	15703	TANN_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
5/24/2024 8:27	15702	TANN_T2	0	1	1	0	1.5	1.5	-0.41	-0.3	0	0	0	0	0	0
5/24/2024 8:30	24105	EHAZ_T1	4	4	0	5.35	5.43	0.08	-1.88	-1.85	1	1	0	1200	1200	0
5/24/2024 8:30	47203	FAXO_T2	0	0	0	0	0	0	-1.52	-1.44	1	1	0	1200	1200	0
5/24/2024 8:30	24102	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 8:30	24104	EHAZ_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/24/2024 8:32	56601	HAMP_T1	0	0	0	0	0	0	-1.61	-1.61	0	0	0	0	0	0
5/24/2024 8:33	40101	HUNT_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
5/24/2024 8:33	64203	KINZ_T1	0	0	0	0	0	0	1.1	0.83	2	2	0	900	900	0
5/24/2024 8:33	64204	KINZ_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
5/24/2024 8:34	64204	KINZ_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
5/24/2024 8:34	56601	HAMP_T1	0	0	0	0	0	0	-1.61	-1.61	0	0	0	0	0	0
5/24/2024 8:34	64201	KINZ_T1	0	0	0	0	0	0	-0.13	-0.09	3	3	0	1500	1500	0
5/24/2024 8:35	55002	NEWP_T1	7	10	3	0.74	0.94	0.2	0	0	0	0	0	0	0	0
5/24/2024 8:35	64203	KINZ_T1	0	0	0	0	0	0	2.2	1.66	4	4	0	1800	1800	0
5/24/2024 8:35	55001	NEWP_T1	1	5	4	0.6	0.26	-0.34	-0.2	-0.18	0	0	0	0	0	0
5/24/2024 8:35	47001	HUGH_T2	0	0	0	0	0	0	-0.73	-0.7	0	0	0	0	0	0
5/24/2024 8:35	64204	KINZ_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
5/24/2024 8:36	55001	NEWP_T1	1	5	4	0.6	0.26	-0.34	-0.2	-0.18	0	0	0	0	0	0
5/24/2024 8:36	55002	NEWP_T1	7	10	3	0.74	0.94	0.2	0	0	0	0	0	0	0	0
5/24/2024 8:36	13303	ORVI_T1	0	0	0	0	0	0	1.16	1.3	0	0	0	0	0	0
5/24/2024 8:37	14403	SSLA_T1	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0	0
5/24/2024 8:37	14404	SSLA_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
5/24/2024 8:38	59101	WALK_T2	0	0	0	0	0	0	-0.38	-0.3	0	0	0	0	0	0
5/24/2024 8:38	14404	SSLA_T1	1	1	0	5.5	5.4	-0.1	0.07	0.04	0	0	0	0	0	0
5/24/2024 8:38	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/24/2024 8:39	14403	SSLA_T1	0	0	0	0	0	0	0.8	0.84	0	0	0	0	0	0
5/24/2024 8:39	14404	SSLA_T1	1	1	0	5.5	5.4	-0.1	0.04	0.07	0	0	0	0	0	0
5/24/2024 8:40	56802	BENV_T2	3	234	231	0.5	0.27	-0.23	-1.25	-1.25	0	0	0	0	0	0
5/24/2024 8:41	56802	BENV_T2	3	234	231	0.5	0.27	-0.23	-3.74	-3.75	0	0	0	0	0	0
5/24/2024 8:41	29402	BELT_T1	1	1	0	7.8	8	0.2	0	0	0	0	0	0	0	0
5/24/2024 8:41	29401	BELT_T1	0	2	2	0	0.2	0.2	0	0	3	3	0	2700	2700	0
5/24/2024 8:41	10805	OHHI_T2	1	1	0	8.8	8.8	0	-1.01	-0.95	1	1	0	600	600	0
5/24/2024 8:42	29401	BELT_T1	0	2	2	0	0.2	0.2	0	0	1	1	0	900	900	0
5/24/2024 8:42	29402	BELT_T1	1	1	0	7.8	8	0.2	0	0	0	0	0	0	0	0
5/24/2024 8:42	56802	BENV_T2	3	234	231	0.5	0.27	-0.23	-3.74	-3.75	0	0	0	0	0	0
5/24/2024 8:43	56802	BENV_T2	3	234	231	0.5	0.27	-0.23	-1.25	-1.25	0	0	0	0	0	0
5/24/2024 8:44	26603	BROO_T1	1	1	0	0.8	1.4	0.6	1.02	1	0	0	0	0	0	0
5/24/2024 8:45	56802	BENV_T2	173	261	88	0.24	0.26	0.02	-4.98	-5	0	0	0	0	0	0
5/24/2024 8:45	40101	HUNT_T2	0	0	0	0	0	0	-0.59	-0.55	0	0	0	0	0	0
5/24/2024 8:46	56802	BENV_T2	173	261	88	0.24	0.26	0.02	-1.25	-1.25	0	0	0	0	0	0
5/24/2024 8:47	56802	BENV_T2	173	261	88	0.24	0.26	0.02	-1.25	-1.25	0	0	0	0	0	0
5/24/2024 8:55	55102	WERT_T2	0	0	0	0	0	0	-3.44	-2.99	4	4	0	2400	2400	0
5/24/2024 8:56	29402	BELT_T1	1	1	0	7.9	8	0.1	0	0	0	0	0	0	0	0
5/24/2024 8:56	20401	ASHF_T2	3	3	0	0.27	0.13	-0.14	0	0	0	0	0	0	0	0
5/24/2024 8:56	43304	WATS_T2	0	1	1	0	0	0	0	0	2	2	0	1200	1200	0
5/24/2024 8:56	20403	ASHF_T2	0	1	1	0	0.1	0.1	1.65	1.64	0	0	0	0	0	0
5/24/2024 8:56	45902	AUBU_T1	0	0	0	0	0	0	-1.05	-1.15	2	2	0	1200	1200	0
5/24/2024 8:56	29401	BELT_T1	1	2	1	0.1	0.2	0.1	0	0	1	1	0	900	900	0
5/24/2024 8:57	29401	BELT_T1	1	2	1	0.1	0.2	0.1	0	0	1	1	0	900	900	0
5/24/2024 8:57	29402	BELT_T1	1	1	0	7.9	8	0.1	0	0	0	0	0	0	0	0
5/24/2024 8:57	43304	WATS_T2	0	1	1	0	0	0	0	0	1	1	0	600	600	0
5/24/2024 8:58	20403	ASHF_T2	0	1	1	0	0.1	0.1	1.65	1.64	0	0	0	0	0	0
5/24/2024 8:58	20401	ASHF_T2	3	3	0	0.27	0.13	-0.14	0	0	0	0	0	0	0	0
5/24/2024 8:59	20403	ASHF_T2	0	1	1	0	0.1	0.1	1.65	1.64	0	0	0	0	0	0
5/24/2024 8:59	20401	ASHF_T2	3	3	0	0.27	0.13	-0.14	0	0	0	0	0	0	0	0
5/24/2024 9:01	40101	HUNT_T2	0	0	0	0	0	0	-0.55	-0.5	0	0	0	0	0	0
5/24/2024 9:03	47001	HUGH_T2	0	0	0	0	0	0	-0.67	-0.64	0	0	0	0	0	0
5/24/2024 9:07	64802	MONE_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
5/24/2024 9:07	67605	WARW_T1	1	1	0	0.1	0.2	0.1	-0.99	-0.93	0	0	0	0	0	0
5/24/2024 9:07	41902	REED_T1	0	0	0	0	0	0	1.11	1.18	0	0	0	0	0	0
5/24/2024 9:08	67605	WARW_T1	1	1	0	0.1	0.2	0.1	-0.93	-0.91	0	0	0	0	0	0
5/24/2024 9:09	67605	WARW_T1	1	1	0	0.1	0.2	0.1	-0.93	-0.91	0	0	0	0	0	0
5/24/2024 9:10	41902	REED_T1	0	0	0	0	0	0	1.18	1.18	0	0	0	0	0	0
5/24/2024 9:11	15001	BLMO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/24/2024 9:12	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
5/24/2024 9:12	15702	TANN_T2	1	1	0	1.7	1.5	-0.2	-0.3	-0.32	0	0	0	0	0	0
5/24/2024 9:12	15001	BLMO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/24/2024 9:13	45902	AUBU_T1	0	0	0	0	0	0	-0.58	-0.46	1	1	0	600	600	0
5/24/2024 9:15	46803	HEPB_T2	1	1	0	0.8	0.8	0	0.48	0.52	0	0	0	0	0	0
5/24/2024 9:15	46801	HEPB_T2	2	2	0	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
5/24/2024 9:15	52202	DEVO_T2	0	0	0	0	0	0	-1.19	-1.16	0	0	0	0	0	0
5/24/2024 9:15	52204	DEVO_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/24/2024 9:25	27502	WEIS_T2	0	0	0	0	0	0	-0.18	-0.24	0	0	0	0	0	0
5/24/2024 9:26	59102	WALK_T2	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
5/24/2024 9:26	59101	WALK_T2	0	0	0	0	0	0	-0.34	-0.25	0	0	0	0	0	0
5/24/2024 9:27	59101	WALK_T2	0	0	0	0	0	0	-0.34	-0.25	0	0	0	0	0	0
5/24/2024 9:27	59102	WALK_T2	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
5/24/2024 9:28	46001	BERW_T1	0	0	0	0	0	0	1.26	1.32	0	0	0	0	0	0
5/24/2024 9:28	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 9:34	47001	HUGH_T2	0	0	0	0	0	0	-0.67	-0.64	0	0	0	0	0	0
5/24/2024 9:44	29401	BELT_T1	1	3	2	0.3	0.23	-0.07	0	0	1	1	0	900	900	0
5/24/2024 9:44	29402	BELT_T1	1	2	1	7.8	4.1	-3.7	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/24/2024 9:49	17804	GILB_T2	1	1	0	1.1	1	-0.1	-0.53	-0.53	0	0	0	0	0	0
5/24/2024 9:49	43201	MVIL_T2	0	1	1	0	0.4	0.4	-1.28	-1.25	0	0	0	0	0	0
5/24/2024 9:56	44301	BEAV_T2	1	9	8	1	0.44	-0.56	-0.07	-0.05	2	2	0	1500	1500	0
5/24/2024 9:58	44301	BEAV_T2	1	9	8	1	0.44	-0.56	-0.21	-0.14	6	6	0	4500	4500	0
5/24/2024 9:59	53601	DALM_T2	1	3	2	0.5	0.2	-0.3	-0.28	-0.05	1	1	0	900	900	0
5/24/2024 10:00	40505	CRES_T1	3	3	0	4.1	4.53	0.43	0.58	0.55	0	0	0	0	0	0
5/24/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	1.38	1.4	0	0	0	0	0	0
5/24/2024 10:00	61101	BERK_T5	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/24/2024 10:00	53902	HALI_T2	3	2	-1	1.83	2.7	0.87	0	0	0	0	0	0	0	0
5/24/2024 10:00	48602	POCA_T1	0	1	1	0	0.1	0.1	0.86	0.93	1	1	0	1200	1200	0
5/24/2024 10:00	67804	WLAN_T1	0	0	0	0	0	0	-0.91	-0.88	0	0	0	0	0	0
5/24/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 10:00	64204	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/24/2024 10:00	67502	WEWI_T2	2	4	2	0.4	0.63	0.23	-0.08	-0.03	0	0	0	0	0	0
5/24/2024 10:00	52503	PROG_T2	0	0	0	0	0	0	-0.43	-0.43	1	1	0	900	900	0
5/24/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	0	0.01	2	2	0	1800	1800	0
5/24/2024 10:00	10801	CHIH_T1	1	2	1	0.1	0.9	0.8	-1.04	-1.05	2	2	0	1500	1500	0
5/24/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
5/24/2024 10:00	40504	CRES_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/24/2024 10:00	53901	HALI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/24/2024 10:00	61102	BERK_T5	0	0	0	0	0	0	0.44	0.48	1	1	0	300	300	0
5/24/2024 10:00	42903	MIDD_T2	2	2	0	1.25	1.4	0.15	0	0	0	0	0	0	0	0
5/24/2024 10:00	64203	KINZ_T1	0	0	0	0	0	0	1.03	1.22	2	2	0	900	900	0
5/24/2024 10:00	42902	MIDD_T2	0	0	0	0	0	0	1.27	1.68	0	0	0	0	0	0
5/24/2024 10:00	53903	HALI_T2	5	5	0	0.8	0.94	0.14	-0.16	-0.11	0	0	0	0	0	0
5/24/2024 10:03	67603	WARW_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/24/2024 10:03	67605	WARW_T1	1	1	0	0.5	0.9	0.4	-0.81	-0.87	0	0	0	0	0	0
5/24/2024 10:04	40201	BEGA_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
5/24/2024 10:05	40201	BEGA_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
5/24/2024 10:07	66502	SMAN_T2	0	0	0	0	0	0	0.51	0.44	0	0	0	0	0	0
5/24/2024 10:08	42903	MIDD_T2	2	2	0	1.25	1.4	0.15	0	0	0	0	0	0	0	0
5/24/2024 10:08	42902	MIDD_T2	0	0	0	0	0	0	0.25	0.34	0	0	0	0	0	0
5/24/2024 10:08	66502	SMAN_T2	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
5/24/2024 10:09	59101	WALK_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
5/24/2024 10:09	43402	BENT_T1	63	26	-37	0.29	0.33	0.04	-0.67	-0.61	1	1	0	900	900	0
5/24/2024 10:09	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/24/2024 10:10	58003	WCAR_T1	4	5	1	0.5	0.42	-0.08	0	0	0	0	0	0	0	0
5/24/2024 10:10	20403	ASHF_T2	6	10	4	0.33	0.53	0.2	1.27	1.07	0	0	0	0	0	0
5/24/2024 10:10	20401	ASHF_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/24/2024 10:10	20402	ASHF_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/24/2024 10:10	58001	WCAR_T1	2	3	1	0.35	0.33	-0.02	1.03	1.05	0	0	0	0	0	0
5/24/2024 10:11	14801	TREI_T2	2	2	0	0.45	0.55	0.1	0.63	0.59	0	0	0	0	0	0
5/24/2024 10:11	20403	ASHF_T2	6	10	4	0.33	0.53	0.2	1.27	1.07	0	0	0	0	0	0
5/24/2024 10:11	20402	ASHF_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/24/2024 10:11	20401	ASHF_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/24/2024 10:12	43402	BENT_T1	63	26	-37	0.29	0.33	0.04	-0.67	-0.61	1	1	0	900	900	0
5/24/2024 10:13	43402	BENT_T1	63	26	-37	0.29	0.33	0.04	-0.67	-0.61	1	1	0	900	900	0
5/24/2024 10:14	29401	BELT_T1	3	4	1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
5/24/2024 10:14	17804	GILB_T2	1	1	0	0.1	1	0.9	-0.54	-0.53	0	0	0	0	0	0
5/24/2024 10:14	29402	BELT_T1	2	2	0	4	3.85	-0.15	0	0	0	0	0	0	0	0
5/24/2024 10:14	53601	DALM_T2	2	3	1	0.15	1.2	1.05	-0.05	-0.42	1	1	0	900	900	0
5/24/2024 10:15	29402	BELT_T1	2	3	1	3.8	2.77	-1.03	0	0	0	0	0	0	0	0
5/24/2024 10:15	29401	BELT_T1	0	5	5	0	0.32	0.32	0	0	1	1	0	900	900	0
5/24/2024 10:16	10801	CHIH_T1	2	2	0	0.35	0.9	0.55	-1.05	-0.89	2	2	0	1500	1500	0
5/24/2024 10:16	29402	BELT_T1	2	3	1	3.8	2.77	-1.03	0	0	0	0	0	0	0	0
5/24/2024 10:16	17802	GILB_T1	2	3	1	0.95	0.7	-0.25	0.21	0.24	0	0	0	0	0	0
5/24/2024 10:16	10805	CHIH_T2	12	2	-10	1.44	4.7	3.26	-0.8	-0.87	1	1	0	600	600	0
5/24/2024 10:16	29401	BELT_T1	0	5	5	0	0.32	0.32	0	0	5	5	0	4500	4500	0
5/24/2024 10:16	47001	HUGH_T2	1	1	0	0.2	0.6	0.4	-0.66	-0.65	0	0	0	0	0	0
5/24/2024 10:18	64204	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/24/2024 10:18	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.25	2	2	0	900	900	0
5/24/2024 10:18	55001	NEWP_T1	3	4	1	0.63	0.68	0.05	0	0	0	0	0	0	0	0
5/24/2024 10:18	55002	NEWP_T1	6	8	2	0.72	0.79	0.07	-0.12	-0.12	0	0	0	0	0	0
5/24/2024 10:19	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/24/2024 10:19	55001	NEWP_T1	3	4	1	0.63	0.68	0.05	0	0	0	0	0	0	0	0
5/24/2024 10:19	40101	HUNT_T2	1	0	-1	0.5	0	-0.5	-0.4	-0.4	0	0	0	0	0	0
5/24/2024 10:19	64201	KINZ_T1	0	0	0	0	0	0	-0.38	-0.47	4	4	0	2100	2100	0
5/24/2024 10:19	64204	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/24/2024 10:19	65001	NEFF_T2	0	0	0	0	0	0	-0.09	-0.06	1	1	0	1200	1200	0
5/24/2024 10:19	55002	NEWP_T1	6	8	2	0.72	0.79	0.07	-0.12	-0.12	0	0	0	0	0	0
5/24/2024 10:19	47001	HUGH_T2	1	1	0	0.2	0.6	0.4	-0.66	-0.65	0	0	0	0	0	0
5/24/2024 10:19	58401	MORO_T1	0	0	0	0	0	0	-1.24	-1.22	2	2	0	1500	1500	0
5/24/2024 10:19	28403	HART_T2	0	0	0	0	0	0	-0.86	-0.84	1	1	0	900	900	0
5/24/2024 10:20	55001	NEWP_T1	3	4	1	0.63	0.68	0.05	0	0	0	0	0	0	0	0
5/24/2024 10:20	55002	NEWP_T1	6	8	2	0.72	0.79	0.07	-0.12	-0.12	0	0	0	0	0	0
5/24/2024 10:20	41902	REED_T1	3	0	-3	0.23	0	-0.23	1.22	1.21	0	0	0	0	0	0
5/24/2024 10:20	64203	KINZ_T1	0	0	0	0	0	0	2.43	2.5	4	4	0	1800	1800	0
5/24/2024 10:20	64204	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/24/2024 10:21	43201	MVIL_T2	1	0	-1	0.4	0.6	0.2	-1.27	-1.25	0	0	0	0	0	0
5/24/2024 10:21	64101	REFR_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
5/24/2024 10:22	55001	NEWP_T1	3	4	1	0.63	0.68	0.05	0	0	0	0	0	0	0	0
5/24/2024 10:22	55002	NEWP_T1	6	8	2	0.72	0.79	0.07	-0.12	-0.12	0	0	0	0	0	0
5/24/2024 10:23	41902	REED_T1	3	0	-3	0.23	0	-0.23	1.21	1.28	0	0	0	0	0	0
5/24/2024 10:23	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
5/24/2024 10:23	15702	TANN_T2	4	6	2	0.55	0.55	0	-0.24	-0.29	0	0	0	0	0	0
5/24/2024 10:23	67603	WARW_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/24/2024 10:23	67605	WARW_T1	1	1	0	0.8	0.9	0.1	-0.86	-0.81	0	0	0	0	0	0
5/24/2024 10:24	67503	WEWI_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
5/24/2024 10:24	64101	REFR_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
5/24/2024 10:24	67502	WEWI_T2	2	7	5	0.4	0.47	0.07	0	0	0	0	0	0	0	0
5/24/2024 10:25	53601	DALM_T2	0	0	0	0	0	0	-0.49	-0.48	1	1	0	600	600	0
5/24/2024 10:25	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.38	-0.41	1	1	0	600	600	0
5/24/2024 10:25	15702	TANN_T2	4	6	2	0.55	0.55	0	-0.29	-0.2	0	0	0	0	0	0
5/24/2024 10:25	53601	DALM_T2	3	1	-2	0.43	1.2	0.77	0	0	0	0	0	0	0	0
5/24/2024 10:25	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
5/24/2024 10:26	15702	TANN_T2	4	6	2	0.55	0.55	0	-0.29	-0.2	0	0	0	0	0	0
5/24/2024 10:26	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/24/2024 10:26	67603	WARW_T1	1	0	-1	0.3	0	-0.3	0.16	0.2	0	0	0	0	0	0
5/24/2024 10:26	67602	WARW_T2	0	0	0	0	0	0	0.88	0.96	1	1	0	300	300	0
5/24/2024 10:26	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	1	1	0	900	900	0
5/24/2024 10:26	67605	WARW_T1	1	1	0	0.8	0.9	0.1	-0.86	-0.81	0	0	0	0	0	0
5/24/2024 10:26	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
5/24/2024 10:27	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.38	-0.41	1	1	0	600	600	0
5/24/2024 10:28	26603	BROO_T1	1	2	1	0.7	0.65	-0.05	0.52	0.54	0	0	0	0	0	0
5/24/2024 10:29	67803	WLAN_T1	0	0	0	0	0	0	-0.99	-1.12	0	0	0	0	0	0
5/24/2024 10:29	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.38	-0.41	1	1	0	600	600	0
5/24/2024 10:29	26603	BROO_T1	1	2	1	0.7	0.65	-0.05	0.52	0.54	0	0	0	0	0	0
5/24/2024 10:31	40101	HUNT_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
5/24/2024 10:31	40702	FFLD_T1	2	3	1	0.3	0.27	-0.03	-0.4	-0.49	1	1	0	1200	1200	0
5/24/2024 10:31	40701	FFLD_T1	28	32	4	0.28	0.39	0.11	0	0	0	0	0	0	0	0
5/24/2024 10:31	45801	HEGI_T1	0	0	0	0	0	0	-0.37	-0.35	1	1	0	900	900	0
5/24/2024 10:31	40703	FFLD_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/24/2024 10:33	13501	MCMI_T1	0	1	1	0	0.2	0.2	0.39	0.41	0	0	0	0	0	0
5/24/2024 10:33	13502	MCMI_T1	2	2	0	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
5/24/2024 10:34	21901	HUMB_T1	0	0	0	0	0	0	-2.12	-2.1	0	0	0	0	0	0
5/24/2024 10:34	40101	HUNT_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
5/24/2024 10:34	13501	MCMI_T1	0	1	1	0	0.2	0.2	0.2	0.21	0	0	0	0	0	0
5/24/2024 10:34	13502	MCMI_T1	2	2	0	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
5/24/2024 10:35	23403	HONE_T1	0	0	0	0	0	0	-0.44	-0.5	0	0	0	0	0	0
5/24/2024 10:38	58001	WCAR_T1	3	4	1	0.33	0.55	0.22	0	0	0	0	0	0	0	0
5/24/2024 10:38	67703	WERN_T2	0	0	0	0	0	0	0.42	0.26	2	2	0	1800	1800	0
5/24/2024 10:38	58003	WCAR_T1	5	4	-1	0.42	0.65	0.23	0.82	0.76	2	2	0	1200	1200	0
5/24/2024 10:39	23001	SAJO_T1	0	1	1	0	0.1	0.1	0.21	0.15	0	0	0	0	0	0
5/24/2024 10:39	23002	SAJO_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/24/2024 10:40	64101	REFR_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
5/24/2024 10:41	43802	SWIL_T1	0	0	0	0	0	0	-0.07	-0.02	1	1	0	600	600	0
5/24/2024 10:41	46004	BERW_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/24/2024 10:41	67702	WERN_T2	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
5/24/2024 10:41	23001	SAJO_T1	0	1	1	0	0.1	0.1	0.21	0.15	0	0	0	0	0	0
5/24/2024 10:41	23002	SAJO_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/24/2024 10:41	43801	SWIL_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
5/24/2024 10:41	46002	BERW_T2	1	1	0	0.4	0.7	0.3	-1.12	-1.19	1	1	0	900	900	0
5/24/2024 10:42	45303	WBER_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
5/24/2024 10:42	67703	WERN_T2	0	0	0	0	0	0	0.21	0.13	1	1	0	900	900	0
5/24/2024 10:43	25603	ARRO_T1	2	8	6	0.4	0.21	-0.19	-0.02	-0.14	0	0	0	0	0	0
5/24/2024 10:44	10801	CHIH_T1	2	4	2	0.9	0.55	-0.35	-0.83	-0.83	2	2	0	1500	1500	0
5/24/2024 10:46	13905	SEID_T1	0	0	0	0	0	0	0.67	0.64	0	0	0	0	0	0
5/24/2024 10:47	28403	HART_T2	0	0	0	0	0	0	-0.82	-0.83	1	1	0	900	900	0
5/24/2024 10:47	53903	HALI_T2	5	5	0	0.84	0.98	0.14	-0.05	-0.05	0	0	0	0	0	0
5/24/2024 10:47	53901	HALI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/24/2024 10:47	53902	HALI_T2	3	3	0	1.67	1.9	0.23	0	0	0	0	0	0	0	0
5/24/2024 10:49	25501	MADI_T1	2	2	0	0.7	0.95	0.25	0	0	0	0	0	0	0	0
5/24/2024 10:49	25502	MADI_T1	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
5/24/2024 10:49	25503	MADI_T1	119	142	23	0.44	0.53	0.09	-0.81	-0.8	0	0	0	0	0	0
5/24/2024 10:49	23203	HIRU_T2	2	2	0	0.2	0.35	0.15	0.16	0.16	0	0	0	0	0	0
5/24/2024 10:49	23202	HIRU_T2	2	3	1	0.35	0.27	-0.08	0	0	0	0	0	0	0	0
5/24/2024 10:49	23201	HIRU_T2	3	7	4	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/24/2024 10:51	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 10:51	65205	PRIN_T1	1	2	1	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
5/24/2024 10:51	65201	PRIN_T4	0	2	2	0	0.1	0.1	0	0	1	1	0	600	600	0
5/24/2024 10:53	44702	MUNC_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/24/2024 10:53	44701	MUNC_T2	3	2	-1	0.27	0.65	0.38	-1.26	-1.23	0	0	0	0	0	0
5/24/2024 10:53	51004	NHAR_T1	6	8	2	1.18	0.98	-0.2	-1.42	-1.36	0	0	0	0	0	0
5/24/2024 10:53	44703	MUNC_T2	2	2	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
5/24/2024 10:53	14401	SSLA_T1	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
5/24/2024 10:53	42903	MIDD_T2	2	2	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
5/24/2024 10:53	67702	WERN_T2	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
5/24/2024 10:53	14403	SSLA_T1	1	2	1	0.5	0.3	-0.2	1.02	1.12	0	0	0	0	0	0
5/24/2024 10:53	14404	SSLA_T1	2	2	0	2.7	2.8	0.1	0	0	0	0	0	0	0	0
5/24/2024 10:53	51002	NHAR_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/24/2024 10:53	42902	MIDD_T2	0	1	1	0	0.2	0.2	0.36	0.44	0	0	0	0	0	0
5/24/2024 10:53	14402	SSLA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/24/2024 10:54	67702	WERN_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/24/2024 10:54	45402	WBLO_T2	13	12	-1	0.34	0.33	-0.01	-1.47	-1.43	0	0	0	0	0	0
5/24/2024 10:54	17002	RIRO_T2	2	3	1	0.5	0.57	0.07	0.81	0.85	0	0	0	0	0	0
5/24/2024 10:54	67201	TEHI_T1	15	16	1	0.46	0.21	-0.25	0	0	0	0	0	0	0	0
5/24/2024 10:54	67203	TEHI_T1	1	2	1	0.3	0.95	0.65	1.95	1.95	4	4	0	3000	3000	0
5/24/2024 10:55	59102	WALK_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/24/2024 10:55	59101	WALK_T2	0	0	0	0	0	0	-0.25	-0.21	0	0	0	0	0	0
5/24/2024 10:55	43301	WATS_T2	1	1	0	0.2	0.2	0	0	-0.46	1	1	0	900	900	0
5/24/2024 10:56	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 10:56	43301	WATS_T2	1	1	0	0.2	0.2	0	0	-0.46	1	1	0	900	900	0
5/24/2024 10:56	40302	TAMA_T3	0	1	1	0	0.1	0.1	-1.16	-1.16	1	1	0	1200	1200	0
5/24/2024 10:57	67702	WERN_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
5/24/2024 10:57	45902	AUBU_T1	1	1	0	0.1	0.9	0.8	-1.18	-1.41	3	3	0	1800	1800	0
5/24/2024 10:57	43301	WATS_T2	1	1	0	0.2	0.2	0	0	-0.92	2	2	0	1800	1800	0
5/24/2024 10:57	45402	WBLO_T2	13	12	-1	0.34	0.33	-0.01	-1.47	-1.43	0	0	0	0	0	0
5/24/2024 10:58	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 10:58	43301	WATS_T2	1	1	0	0.2	0.2	0	0	-0.92	2	2	0	1800	1800	0
5/24/2024 10:58	45402	WBLO_T2	13	12	-1	0.34	0.33	-0.01	-1.47	-1.43	0	0	0	0	0	0
5/24/2024 10:58	23902	EFMO_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/24/2024 10:59	45902	AUBU_T1	1	1	0	0.1	0.9	0.8	-0.39	-0.47	1	1	0	600	600	0
5/24/2024 11:00	48302	ORWI_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/24/2024 11:02	29401	BELT_T1	25	31	6	0.2	0.21	0.01	0	0	1	1	0	900	900	0
5/24/2024 11:02	29402	BELT_T1	3	3	0	2.9	2.97	0.07	0	0	0	0	0	0	0	0
5/24/2024 11:02	26603	BROO_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/24/2024 11:02	26601	BROO_T1	0	0	0	0	0	0	-0.24	-0.18	1	1	0	600	600	0
5/24/2024 11:03	63302	GREE_T1	0	0	0	0	0	0	0.92	0.96	0	0	0	0	0	0
5/24/2024 11:03	47001	HUGH_T2	2	3	1	0.35	0.4	0.05	-0.56	-0.54	0	0	0	0	0	0
5/24/2024 11:04	46505	LOHA_T1	0	0	0	0	0	0	-0.28	-0.23	1	1	0	600	600	0
5/24/2024 11:06	56802	BENV_T2	11	13	2	0.56	0.54	-0.02	-1.05	-1.01	0	0	0	0	0	0
5/24/2024 11:06	64101	REFR_T1	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
5/24/2024 11:07	56801	BENV_T1	19	16	-3	0.97	0.69	-0.28	-0.78	-0.57	2	2	0	1200	1200	0
5/24/2024 11:07	44702	MUNC_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/24/2024 11:07	44701	MUNC_T2	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
5/24/2024 11:07	64101	REFR_T1	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
5/24/2024 11:07	44703	MUNC_T2	2	2	0	0.45	0.4	-0.05	1.05	1.01	0	0	0	0	0	0
5/24/2024 11:07	56803	BENV_T1	2	4	2	0.55	1.35	0.8	0	0	0	0	0	0	0	0
5/24/2024 11:07	56802	BENV_T2	11	13	2	0.56	0.54	-0.02	-5.25	-5.05	0	0	0	0	0	0
5/24/2024 11:08	64101	REFR_T1	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
5/24/2024 11:08	56803	BENV_T1	2	4	2	0.55	1.35	0.8	0	0	0	0	0	0	0	0
5/24/2024 11:08	67605	WARW_T1	1	1	0	0.9	1.4	0.5	-0.74	-0.69	0	0	0	0	0	0
5/24/2024 11:08	56802	BENV_T2	11	13	2	0.56	0.54	-0.02	-3.03	-3.15	0	0	0	0	0	0
5/24/2024 11:08	67603	WARW_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/24/2024 11:08	56801	BENV_T1	19	16	-3	0.97	0.69	-0.28	-0.29	-0.22	1	1	0	600	600	0
5/24/2024 11:09	56802	BENV_T2	11	13	2	0.56	0.54	-0.02	-4.04	-4.2	0	0	0	0	0	0
5/24/2024 11:09	67201	TEHI_T1	16	7	-9	0.44	0.2	-0.24	0	0	0	0	0	0	0	0
5/24/2024 11:09	67203	TEHI_T1	2	2	0	0.95	0	-0.95	1.95	1.83	4	4	0	3000	3000	0
5/24/2024 11:09	56803	BENV_T1	2	4	2	0.55	1.35	0.8	0	0	0	0	0	0	0	0
5/24/2024 11:09	64101	REFR_T1	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
5/24/2024 11:09	56801	BENV_T1	19	16	-3	0.97	0.69	-0.28	-0.29	-0.22	1	1	0	600	600	0
5/24/2024 11:10	67603	WARW_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/24/2024 11:10	64101	REFR_T1	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
5/24/2024 11:10	67605	WARW_T1	1	1	0	0.9	1.4	0.5	-2.23	-2.08	0	0	0	0	0	0
5/24/2024 11:10	59102	WALK_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/24/2024 11:10	59101	WALK_T2	0	0	0	0	0	0	-0.21	-0.29	0	0	0	0	0	0
5/24/2024 11:11	59101	WALK_T2	0	0	0	0	0	0	-0.21	-0.29	0	0	0	0	0	0
5/24/2024 11:11	59102	WALK_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/24/2024 11:11	67801	WLAN_T1	0	0	0	0	0	0	0.12	0.07	0	0	0	0	0	0
5/24/2024 11:12	59101	WALK_T2	0	0	0	0	0	0	-0.21	-0.29	0	0	0	0	0	0
5/24/2024 11:12	43301	WATS_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/24/2024 11:12	43304	WATS_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
5/24/2024 11:12	59102	WALK_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/24/2024 11:13	60101	COCA_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
5/24/2024 11:13	43504	WWIL_T1	4	3	-1	0.25	0.17	-0.08	0.92	0.85	0	0	0	0	0	0
5/24/2024 11:13	43506	WWIL_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
5/24/2024 11:13	43505	WWIL_T1	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
5/24/2024 11:13	60102	COCA_T1	0	1	1	0	0.2	0.2	-1.06	-1.13	3	3	0	2100	2100	0
5/24/2024 11:14	10805	CHHI_T2	2	8	6	4.8	5.05	0.25	-0.83	-0.81	1	1	0	600	600	0
5/24/2024 11:15	40701	FFLD_T1	31	31	0	0.32	0.29	-0.03	0	0	0	0	0	0	0	0
5/24/2024 11:15	40702	FFLD_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/24/2024 11:15	40703	FFLD_T1	2	1	-1	0.3	0.4	0.1	0.41	0.45	0	0	0	0	0	0
5/24/2024 11:18	58402	MORO_T1	0	0	0	0	0	0	-0.84	-0.82	3	3	0	2400	2400	0
5/24/2024 11:20	56802	BENV_T2	11	12	1	0.53	0.51	-0.02	-1.01	-1.05	0	0	0	0	0	0
5/24/2024 11:21	59302	MCAL_T1	0	0	0	0	0	0	0.13	0.1	1	1	0	600	600	0
5/24/2024 11:21	58402	MORO_T1	0	0	0	0	0	0	-1.68	-1.64	6	6	0	4800	4800	0
5/24/2024 11:21	59301	MCAL_T1	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
5/24/2024 11:22	66502	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/24/2024 11:22	66504	SMAN_T2	0	1	1	0	0.2	0.2	0.29	-1.01	1	1	0	1200	1200	0
5/24/2024 11:23	67702	WERN_T2	0	1	1	0	0.1	0.1	0.1	0.09	0	0	0	0	0	0
5/24/2024 11:23	56802	BENV_T2	11	12	1	0.53	0.51	-0.02	-3.15	-2.91	0	0	0	0	0	0
5/24/2024 11:24	14401	SSLA_T1	2	3	1	0.45	0.53	0.08	0	0	0	0	0	0	0	0
5/24/2024 11:24	14403	SSLA_T1	1	1	0	0.3	0.3	0	1.1	1.07	0	0	0	0	0	0
5/24/2024 11:24	14402	SSLA_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/24/2024 11:24	14404	SSLA_T1	2	2	0	2.65	2.75	0.1	0	0	0	0	0	0	0	0
5/24/2024 11:24	56802	BENV_T2	11	12	1	0.53	0.51	-0.02	-1.05	-0.97	0	0	0	0	0	0
5/24/2024 11:25	66703	STRA_T1	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
5/24/2024 11:25	64101	REFR_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
5/24/2024 11:25	66701	STRA_T1	1	2	1	0.5	0.75	0.25	0	0	0	0	0	0	0	0
5/24/2024 11:25	56802	BENV_T2	11	12	1	0.53	0.51	-0.02	-1.05	-0.97	0	0	0	0	0	0
5/24/2024 11:27	66504	SMAN_T2	0	1	1	0	0.2	0.2	-2.02	-1.97	2	2	0	2400	2400	0
5/24/2024 11:27	66502	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/24/2024 11:27	67502	WEWI_T2	6	11	5	0.52	0.45	-0.07	-0.92	-0.95	1	1	0	900	900	0
5/24/2024 11:28	67502	WEWI_T2	6	11	5	0.52	0.45	-0.07	-1.84	-1.89	2	2	0	1800	1800	0
5/24/2024 11:29	41801	GOCI_T2	11	10	-1	0.45	0.52	0.07	0	0	0	0	0	0	0	0
5/24/2024 11:30	61801	EELI_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/24/2024 11:30	61803	EELI_T2	0	0	0	0	0	0	0.57	0.6	1	1	0	600	600	0
5/24/2024 11:30	23902	EFMO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/24/2024 11:30	23901	EFMO_T2	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0
5/24/2024 11:32	29402	BELT_T1	2	42	40	4.25	0.6	-3.65	0	0	0	0	0	0	0	0
5/24/2024 11:32	29401	BELT_T1	29	9	-20	0.21	0.39	0.18	0	0	1	1	0	900	900	0
5/24/2024 11:33	12701	MACU_T1	0	0	0	0	0	0	0.3	0.28	0	1	1	0	1200	1200
5/24/2024 11:33	40101	HUNT_T2	0	0	0	0	0	0	-0.33	-0.29	0	0	0	0	0	0
5/24/2024 11:35	57306	MOAL_T2	1	0	-1	8	0	-8	0	0	0	0	0	0	0	0
5/24/2024 11:35	12701	MACU_T1	0	0	0	0	0	0	0.3	0.28	0	1	1	0	1200	1200
5/24/2024 11:35	57302	MOAL_T2	0	0	0	0	0	0	-1.19	-1.08	1	1	0	1200	1200	0
5/24/2024 11:35	57303	MOAL_T2	1	1	0	7.6	7.6	0	0	0	0	0	0	0	0	0
5/24/2024 11:37	59301	MCAL_T1	1	4	3	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
5/24/2024 11:37	59302	MCAL_T1	0	0	0	0	0	0	0.1	0.01	1	1	0	600	600	0
5/24/2024 11:39	57403	SPAN_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
5/24/2024 11:39	67702	WERN_T2	1	1	0	0.1	0.4	0.3	0.09	0.12	0	0	0	0	0	0
5/24/2024 11:40	58402	MORO_T1	0	0	0	0	0	0	-0.8	-0.79	3	3	0	2400	2400	0
5/24/2024 11:41	60102	COCA_T1	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
5/24/2024 11:41	60101	COCA_T1	2	2	0	0.45	0.55	0.1	0.78	0.87	0	0	0	0	0	0
5/24/2024 11:42	67401	WAKE_T2	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
5/24/2024 11:42	67402	WAKE_T2	0	0	0	0	0	0	0.59	-0.04	1	1	0	600	600	0
5/24/2024 11:43	24101	EHAZ_T1	20	14	-6	0.92	0.72	-0.2	0	0	0	0	0	0	0	0
5/24/2024 11:43	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/24/2024 11:43	24105	EHAZ_T1	4	4	0	6.7	6.7	0	0	0	0	0	0	0	0	0
5/24/2024 11:43	24102	EHAZ_T1	3	7	4	0.77	0.5	-0.27	0	0	0	0	0	0	0	0
5/24/2024 11:43	24103	EHAZ_T1	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
5/24/2024 11:43	24104	EHAZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/24/2024 11:44	60102	COCA_T1	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
5/24/2024 11:44	60101	COCA_T1	2	2	0	0.45	0.55	0.1	0.78	0.87	0	0	0	0	0	0
5/24/2024 11:44	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 11:45	60102	COCA_T1	3	1	-2	0.33	0.3	-0.03	-1.54	-1.14	3	2	-1	2100	1200	-900
5/24/2024 11:45	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 11:45	60101	COCA_T1	2	2	0	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
5/24/2024 11:45	10801	CHHI_T1	4	9	5	0.5	0.94	0.44	-0.82	-0.8	2	3	1	1500	2100	600
5/24/2024 11:46	60102	COCA_T1	3	1	-2	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
5/24/2024 11:46	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 11:46	60101	COCA_T1	2	2	0	0.55	0.3	-0.25	0.78	0.87	0	0	0	0	0	0
5/24/2024 11:48	60101	COCA_T1	2	2	0	0.55	0.3	-0.25	0.78	0.87	0	0	0	0	0	0
5/24/2024 11:48	40101	HUNT_T2	0	0	0	0	0	0	-0.29	-0.34	0	0	0	0	0	0
5/24/2024 11:48	16402	MOPO_T1	1	3	2	0.5	0.77	0.27	0.1	-0.02	0	0	0	0	0	0
5/24/2024 11:48	60102	COCA_T1	3	1	-2	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
5/24/2024 11:48	16401	MOPO_T1	2	3	1	0.25	0.47	0.22	0	0	0	0	0	0	0	0
5/24/2024 11:49	25402	LAHA_T2	14	44	30	0.24	0.14	-0.1	-0.74	-0.73	0	0	0	0	0	0
5/24/2024 11:50	23902	MOSC_T2	0	0	0	0	0	0	0.09	0.22	1	1	0	900	900	0
5/24/2024 11:50	16402	MOPO_T1	1	3	2	0.5	0.77	0.27	0.1	-0.02	0	0	0	0	0	0
5/24/2024 11:50	23101	MOSC_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/24/2024 11:50	16401	MOPO_T1	2	3	1	0.25	0.47	0.22	0	0	0	0	0	0	0	0
5/24/2024 11:52	57404	SPAN_T2	0	0	0	0	0	0	0.21	0.18	1	1	0	1200	1200	0
5/24/2024 11:53	42201	SHEN_T2	0	1	1	0	0.1	0.1	0.96	1	0	0	0	0	0	0
5/24/2024 11:53	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 11:54	67002	STHI_T2	0	0	0	0	0	0	1.15	1.19	0	0	0	0	0	0
5/24/2024 12:00	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 12:01	44502	HAMI_T2	1	2	1	1.8	1.9	0.1	-0.6	-0.57	0	0	0	0	0	0
5/24/2024 12:01	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 12:02	10105	ALLE_T3	3	3	0	0.33	0.37	0.04	0	0	0	0	0	0	0	0
5/24/2024 12:02	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 12:02	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 12:02	10103	ALLE_T3	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/24/2024 12:02	10205	ALLE_T3	2	2	0	0.5	0.85	0.35	0	0	0	0	0	0	0	0
5/24/2024 12:03	46803	HEPB_T2	4	4	0	0.43	0.5	0.07	0.59	0.56	0	0	0	0	0	0
5/24/2024 12:03	46801	HEPB_T2	2	2	0	1.05	0.9	-0.15	0	0	0	0	0	0	0	0
5/24/2024 12:04	46801	HEPB_T2	2	2	0	1.05	0.9	-0.15	0.93	0.95	0	0	0	0	0	0
5/24/2024 12:04	46803	HEPB_T2	4	4	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
5/24/2024 12:06	13606	RICH_T2	1	1	0	7.8	7.4	-0.4	1.53	1.52	0	0	0	0	0	0
5/24/2024 12:06	46506	LOHA_T1	1	1	0	0.5	0.1	-0.4	-0.37	-0.36	0	0	0	0	0	0
5/24/2024 12:06	46504	LOHA_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/24/2024 12:08	46101	MACI_T2	0	0	0	0	0	0	-0.58	-0.56	1	2	1	1200	2400	1200
5/24/2024 12:08	13606	RICH_T2	1	1	0	7.8	7.4	-0.4	1.53	1.52	0	0	0	0	0	0
5/24/2024 12:10	24205	PROV_T3	4	4	0	0.1	0.18	0.08	0	0	0	0	0	0	0	0
5/24/2024 12:10	67201	TEHI_T1	2	19	17	0.3	0.45	0.15	0.76	0.84	2	2	0	1500	1500	0
5/24/2024 12:10	64902	MILL_T2	0	0	0	0	0	0	-0.72	-0.76	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/24/2024 12:10	24201	PROV_T3	4	7	3	1.93	1.27	-0.66	-1.01	-1.06	1	1	0	1200	1200	0
5/24/2024 12:10	67203	TEHI_T1	1	3	2	0.3	0.73	0.43	0	0	0	0	0	0	0	0
5/24/2024 12:10	24204	PROV_T3	2	3	1	3	2.07	-0.93	0	0	0	0	0	0	0	0
5/24/2024 12:11	67703	WERN_T2	0	1	1	0	0.2	0.2	0.27	0.28	1	1	0	900	900	0
5/24/2024 12:11	40302	TAMA_T3	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/24/2024 12:11	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 12:11	67702	WERN_T2	1	1	0	0.4	0.3	-0.1	0.2	0.13	0	0	0	0	0	0
5/24/2024 12:11	46005	BERW_T1	1	3	2	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/24/2024 12:11	46001	BERW_T1	0	0	0	0	0	0	1.02	1	0	0	0	0	0	0
5/24/2024 12:11	40303	TAMA_T3	0	0	0	0	0	0	0.48	0.7	0	0	0	0	0	0
5/24/2024 12:12	67703	WERN_T2	0	1	1	0	0.2	0.2	0.27	0.28	1	1	0	900	900	0
5/24/2024 12:12	67702	WERN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/24/2024 12:13	67702	WERN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/24/2024 12:13	46001	BERW_T1	0	0	0	0	0	0	2.04	2	0	0	0	0	0	0
5/24/2024 12:13	67703	WERN_T2	0	1	1	0	0.2	0.2	0.27	0.28	1	1	0	900	900	0
5/24/2024 12:13	46005	BERW_T1	1	3	2	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/24/2024 12:14	16103	BING_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
5/24/2024 12:14	46001	BERW_T1	0	0	0	0	0	0	1.02	1	0	0	0	0	0	0
5/24/2024 12:14	45901	AUBU_T1	0	0	0	0	0	0	1.76	1.76	0	0	0	0	0	0
5/24/2024 12:14	16102	BING_T2	5	5	0	0.52	0.82	0.3	-0.66	-0.64	1	1	0	1200	1200	0
5/24/2024 12:14	46005	BERW_T1	1	3	2	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/24/2024 12:14	67501	WEWI_T1	1	2	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
5/24/2024 12:14	67505	WEWI_T1	0	0	0	0	0	0	0.32	0.3	1	1	0	900	900	0
5/24/2024 12:14	16101	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/24/2024 12:14	45902	AUBU_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/24/2024 12:15	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
5/24/2024 12:15	24101	EHAZ_T1	12	14	2	0.87	0.98	0.11	0	0	0	0	0	0	0	0
5/24/2024 12:15	46005	BERW_T1	2	3	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/24/2024 12:15	16103	BING_T2	1	1	0	1.2	1.3	0.1	-0.68	-0.61	1	1	0	600	600	0
5/24/2024 12:15	46001	BERW_T1	0	0	0	0	0	0	2.04	2	0	0	0	0	0	0
5/24/2024 12:15	16101	BING_T2	0	1	1	0	0.2	0.2	0.78	0.81	0	0	0	0	0	0
5/24/2024 12:15	24104	EHAZ_T1	1	1	0	0.3	0.2	-0.1	-0.78	-0.7	1	1	0	1200	1200	0
5/24/2024 12:15	16102	BING_T2	5	6	1	0.82	0.67	-0.15	0	0	0	0	0	0	0	0
5/24/2024 12:15	24105	EHAZ_T1	4	4	0	6.6	6.6	0	0	0	0	0	0	0	0	0
5/24/2024 12:15	24102	EHAZ_T1	2	1	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
5/24/2024 12:16	46005	BERW_T1	2	3	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/24/2024 12:16	67501	WEWI_T1	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
5/24/2024 12:16	67505	WEWI_T1	0	0	0	0	0	0	0.32	0.3	1	1	0	900	900	0
5/24/2024 12:16	46001	BERW_T1	0	0	0	0	0	0	1.02	1	0	0	0	0	0	0
5/24/2024 12:17	23901	ERMO_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/24/2024 12:21	13503	MCMI_T2	2	2	0	0.8	0.65	-0.15	0.03	0.05	0	0	0	0	0	0
5/24/2024 12:21	64802	MONE_T2	2	1	-1	0.15	0.1	-0.05	0.22	0.22	0	0	0	0	0	0
5/24/2024 12:22	47802	MOCA_T2	1	0	-1	0.2	0	-0.2	0.47	0.56	0	0	0	0	0	0
5/24/2024 12:22	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 12:22	13503	MCMI_T2	2	2	0	0.8	0.65	-0.15	0.05	0.09	0	0	0	0	0	0
5/24/2024 12:23	55103	WERT_T1	1	1	0	4.9	4.3	-0.6	0	0	0	0	0	0	0	0
5/24/2024 12:23	55105	WERT_T1	0	0	0	0	0	0	0.19	0.21	1	1	0	900	900	0
5/24/2024 12:23	58101	NEKI_T1	3	2	-1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/24/2024 12:23	58102	NEKI_T1	3	2	-1	0.6	0.85	0.25	-1.25	-1.25	1	1	0	1200	1200	0
5/24/2024 12:24	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 12:24	67605	WARW_T1	1	1	0	1.7	1.3	-0.4	-0.64	-0.62	0	0	0	0	0	0
5/24/2024 12:24	67603	WARW_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/24/2024 12:25	64101	REFR_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
5/24/2024 12:25	45902	AUBU_T1	1	1	0	0.6	0.7	0.1	-0.54	-0.62	1	1	0	600	600	0
5/24/2024 12:26	58003	WCAR_T1	1	1	0	0.8	0.8	0	0.47	0.4	1	1	0	600	600	0
5/24/2024 12:26	58001	WCAR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/24/2024 12:27	57006	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/24/2024 12:27	57002	WHHI_T2	0	0	0	0	0	0	-1.68	-1.65	1	1	0	1200	1200	0
5/24/2024 12:29	46002	BERW_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/24/2024 12:29	46004	BERW_T2	1	0	-1	0.2	0	-0.2	-0.09	-0.07	0	0	0	0	0	0
5/24/2024 12:31	44505	HAMI_T2	0	0	0	0	0	0	0.89	0.89	0	0	0	0	0	0
5/24/2024 12:31	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
5/24/2024 12:31	44502	HAMI_T2	2	2	0	3.1	1.7	-1.4	0	0	0	0	0	0	0	0
5/24/2024 12:31	60103	COCA_T2	0	0	0	0	0	0	-1.32	-1.28	3	3	0	3300	3300	0
5/24/2024 12:31	24702	FLND_T2	3	3	0	1.1	1.13	0.03	0.78	0.91	1	1	0	1200	1200	0
5/24/2024 12:32	44505	HAMI_T2	0	0	0	0	0	0	0.89	0.89	0	0	0	0	0	0
5/24/2024 12:32	52402	GRPA_T2	9	7	-2	0.22	0.26	0.04	0	0	0	0	0	0	0	0
5/24/2024 12:32	52403	GRPA_T2	7	5	-2	0.39	0.48	0.09	0.38	0.36	0	0	0	0	0	0
5/24/2024 12:32	44502	HAMI_T2	2	2	0	3.1	1.7	-1.4	0	0	0	0	0	0	0	0
5/24/2024 12:33	45702	LIND_T2	2	2	0	1.1	0.9	-0.2	-0.45	-0.44	0	0	0	0	0	0
5/24/2024 12:33	11104	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 12:33	11102	EGYP_T1	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
5/24/2024 12:33	11101	EGYP_T1	0	0	0	0	0	0	1.43	1.63	0	0	0	0	0	0
5/24/2024 12:34	53903	HALI_T2	5	5	0	0.78	0.72	-0.06	0	0	0	0	0	0	0	0
5/24/2024 12:34	45702	LIND_T2	2	2	0	1.1	0.9	-0.2	-0.45	-0.44	0	0	0	0	0	0
5/24/2024 12:34	53901	HALI_T2	0	0	0	0	0	0	-1.16	-1.16	0	0	0	0	0	0
5/24/2024 12:34	53902	HALI_T2	3	3	0	1.7	1.63	-0.07	0	0	0	0	0	0	0	0
5/24/2024 12:35	41204	KENM_T2	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
5/24/2024 12:35	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
5/24/2024 12:35	27605	PIRI_T2	0	10	10	0	0.29	0.29	1.25	1.03	0	0	0	0	0	0
5/24/2024 12:37	13503	MCMI_T2	2	2	0	0.65	0.6	-0.05	0.05	0.05	0	0	0	0	0	0
5/24/2024 12:38	13503	MCMI_T2	2	2	0	0.65	0.6	-0.05	0.05	0.05	0	0	0	0	0	0
5/24/2024 12:39	58102	NEKI_T1	2	2	0	0.85	0.7	-0.15	-1.25	-1.2	1	1	0	1200	1200	0
5/24/2024 12:39	58101	NEKI_T1	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
5/24/2024 12:40	65901	SAKR_T2	1	1	0	7.2	7.1	-0.1	-0.72	-0.72	2	2	0	1500	1500	0
5/24/2024 12:40	60101	COCA_T1	2	1	-1	0.25	0.1	-0.15	0.88	0.87	0	0	0	0	0	0
5/24/2024 12:45	10805	CHHI_T2	11	15	4	1.36	2.32	0.96	-0.66	-0.66	1	1	0	600	600	0
5/24/2024 12:47	63803	HEMP_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/24/2024 12:47	63801	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/24/2024 12:47	63804	HEMP_T1	1	1	0	6.8	6.7	-0.1	-0.1	0	0	0	0	0	0	0
5/24/2024 12:48	58003	WCAR_T1	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
5/24/2024 12:48	45501	DERR_T2	0	1	1	0	0.2	0.2	0.29	0.38	2	2	0	1800	1800	0
5/24/2024 12:48	58001	WCAR_T1	0	0	0	0	0	0	1.24	1.1	0	0	0	0	0	0
5/24/2024 12:52	43101	SMIL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
5/24/2024 12:52	43103	SMIL_T2	5	1	-4	0.32	0.9	0.58	0	0	0	0	0	0	0	0
5/24/2024 12:52	43108	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/24/2024 12:52	43104	SMIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/24/2024 12:52	43105	SMIL_T2	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0	0
5/24/2024 12:52	43102	SMIL_T2	1	0	-1	0.1	0	-0.1	-0.53	-0.53	1	1	0	600	600	0
5/24/2024 12:56	67402	WAKE_T2	0	0	0	0	0	0	0.02	0.03	1	1	0	600	600	0
5/24/2024 12:56	67401	WAKE_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/24/2024 12:57	67401	WAKE_T2	2	2	0	0.2	0.3	0.1	-0.73	-0.66	0	0	0	0	0	0
5/24/2024 12:58	46004	BERW_T2	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
5/24/2024 12:58	46002	BERW_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/24/2024 13:00	44301	BEAV_T2	0	1	1	0	0.2	0.2	0.53	0.65	1	1	0	600	600	0
5/24/2024 13:04	45702	LIND_T2	2	2	0	0.7	0.75	0.05	-0.37	-0.41	0	0	0	0	0	0
5/24/2024 13:04	45801	HEGI_T1	0	0	0	0	0	0	-0.39	-0.28	1	1	0	900	900	0
5/24/2024 13:08	43801	SWIL_T1	1	1	0	5.9	5.5	-0.4	0	0	0	0	0	0	0	0
5/24/2024 13:08	14802	TREI_T2	1	0	-1	0.2	0	-0.2	0.86	0.87	0	0	0	0	0	0
5/24/2024 13:08	43802	SWIL_T1	0	0	0	0	0	0	0.08	0.08	1	1	0	600	600	0
5/24/2024 13:14	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 13:14	53903	HALI_T2	5	9	4	0.72	0.81	0.09	-0.01	-0.01	0	0	0	0	0	0
5/24/2024 13:14	17802	GILB_T1	1	3	2	0.5	1	0.5	0.25	0.32	0	0	0	0	0	0
5/24/2024 13:14	53902	HALI_T2	3	3	0	1.6	2.13	0.53	0	0	0	0	0	0	0	0
5/24/2024 13:14	53901	HALI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/24/2024 13:14	41602	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/24/2024 13:17	53902	HALI_T2	3	3	0	2.07	2.1	0.03	0	0	0	0	0	0	0	0
5/24/2024 13:17	53901	HALI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/24/2024 13:17	64702	LITI_T2	0	0	0	0	0	0	0.09	-0.01	0	0	0	0	0	0
5/24/2024 13:17	53903	HALI_T2	8	9	1	0.88	0.77	-0.11	-0.01	-0.01	0	0	0	0	0	0
5/24/2024 13:19	53902	HALI_T2	3	3	0	2.07	2.1	0.03	0.04	0.04	0	0	0	0	0	0
5/24/2024 13:19	53901	HALI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/24/2024 13:19	17802	GILB_T1	2	3	1	0.8	1	0.2	0.25	0.32	0	0	0	0	0	0
5/24/2024 13:19	15601	NSTR_T2	4	4	0	0.18	0.2	0.02	0	0	0	0	0	0	0	0
5/24/2024 13:19	13503	MCMI_T2	2	2	0	0.55	0.5	-0.05	0.06	0.07	0	0	0	0	0	0
5/24/2024 13:19	15603	NSTR_T2	1	1	0	0.2	0.3	0.1	-0.48	-0.5	0	0	0	0	0	0
5/24/2024 13:19	53903	HALI_T2	8	9	1	0.88	0.77	-0.11	0	0	0	0	0	0	0	0
5/24/2024 13:20	64702	LITI_T2	0	0	0	0	0	0	0.09	-0.01	0	0	0	0	0	0
5/24/2024 13:21	64702	LITI_T2	0	0	0	0	0	0	0.09	-0.01	0	0	0	0	0	0
5/24/2024 13:23	55405	WIER_T1	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
5/24/2024 13:24	15601	NSTR_T2	4	4	0	0.18	0.2	0.02	0	0	0	0	0	0	0	0
5/24/2024 13:24	15603	NSTR_T2	1	1	0	0.2	0.3	0.1	-0.5	-0.49	0	0	0	0	0	0
5/24/2024 13:25	59101	WALK_T2	0	0	0	0	0	0	-0.24	-0.09	0	0	0	0	0	0
5/24/2024 13:26	59101	WALK_T2	0	0	0	0	0	0	-0.72	-0.27	0	0	0	0	0	0
5/24/2024 13:27	58006	WCAR_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
5/24/2024 13:27	45402	WBLO_T2	17	4	-13	0.24	0.48	0.24	-1.37	-1.36	0	0	0	0	0	0
5/24/2024 13:28	59101	WALK_T2	0	0	0	0	0	0	-0.24	-0.09	0	0	0	0	0	0
5/24/2024 13:29	44301	BEAV_T2	0	1	1	0	0.2	0.2	0.61	0.67	1	1	0	600	600	0
5/24/2024 13:29	45902	AUBU_T1	1	1	0	0.3	0.8	0.5	-0.56	-0.69	1	1	0	600	600	0
5/24/2024 13:29	21203	ECAR_T1	2	2	0	0.7	0.9	0.2	0.79	0.82	0	0	0	0	0	0
5/24/2024 13:31	10805	CHHI_T2	6	12	6	1.93	2.26	0.33	-0.82	-0.72	1	1	0	600	600	0
5/24/2024 13:39	43105	SMIL_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
5/24/2024 13:39	43103	SMIL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/24/2024 13:39	43108	SMIL_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/24/2024 13:39	43101	SMIL_T2	1	1	0	0.8	1	0.2	-0.4	-0.41	0	0	0	0	0	0
5/24/2024 13:42	58006	WCAR_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
5/24/2024 13:42	61102	BERK_T5	0	0	0	0	0	0	0.75	0.8	1	1	0	300	300	0
5/24/2024 13:43	61102	BERK_T5	0	0	0	0	0	0	0.75	0.8	1	1	0	300	300	0
5/24/2024 13:43	58006	WCAR_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
5/24/2024 13:45	29402	BELT_T1	4	2	-2	2.63	4.6	1.97	0	0	0	0	0	0	0	0
5/24/2024 13:45	29401	BELT_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/24/2024 13:47	17805	GILB_T2	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
5/24/2024 13:47	17804	GILB_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
5/24/2024 13:47	64702	LITI_T2	0	0	0	0	0	0	0.05	0.23	0	0	0	0	0	0
5/24/2024 13:47	52402	GRPA_T2	3	1	-2	0.27	0.3	0.03	0	0	0	0	0	0	0	0
5/24/2024 13:47	52403	GRPA_T2	1	3	2	0.5	0.3	-0.2	0.03	0.02	0	0	0	0	0	0
5/24/2024 13:48	64702	LITI_T2	0	0	0	0	0	0	0.05	0.23	0	0	0	0	0	0
5/24/2024 13:49	52403	GRPA_T2	1	3	2	0.5	0.3	-0.2	0.03	0.02	0	0	0	0	0	0
5/24/2024 13:49	52402	GRPA_T2	3	1	-2	0.27	0.3	0.03	0	0	0	0	0	0	0	0
5/24/2024 13:51	28801	LAKE_T1	2	1	-1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
5/24/2024 13:51	64702	LITI_T2	0	0	0	0	0	0	0.05	0.23	0	0	0	0	0	0
5/24/2024 13:51	28805	LAKE_T1	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
5/24/2024 13:54	67402	WAKE_T2	0	0	0	0	0	0	0.06	0.09	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/24/2024 13:54	67401	WAKE_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/24/2024 13:54	58006	WCAR_T2	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
5/24/2024 13:57	67605	WARW_T1	1	1	0	1.2	0.6	-0.6	-0.73	-0.64	0	0	0	0	0	0
5/24/2024 13:57	67603	WARW_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/24/2024 13:58	67801	WLAN_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 13:58	67805	WLAN_T1	0	0	0	0	0	0	-0.55	-0.6	0	0	0	0	0	0
5/24/2024 14:00	29402	BELT_T1	2	2	0	4.5	4.65	0.15	0	0	0	0	0	0	0	0
5/24/2024 14:09	59101	WALK_T2	0	0	0	0	0	0	-0.19	-0.15	0	0	0	0	0	0
5/24/2024 14:15	40101	HUNT_T2	1	3	2	0.2	0.25	0.05	-0.21	-0.21	0	0	0	0	0	0
5/24/2024 14:16	53903	HALI_T2	6	6	0	0.68	0.7	0.02	0.01	0.01	0	0	0	0	0	0
5/24/2024 14:16	53902	HALI_T2	3	3	0	1.77	1.6	-0.17	0	0	0	0	0	0	0	0
5/24/2024 14:18	64201	KINZ_T1	0	0	0	0	0	0	-0.14	-0.23	4	4	0	2100	2100	0
5/24/2024 14:18	25402	LAHA_T2	0	0	0	0	0	0	-0.65	-0.68	0	0	0	0	0	0
5/24/2024 14:18	64203	KINZ_T1	1	1	0	1	0	-1	0.15	0.06	3	3	0	2100	2100	0
5/24/2024 14:18	64204	KINZ_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/24/2024 14:21	10206	ALLE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/24/2024 14:21	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 14:21	10102	ALLE_T2	1	1	0	7.6	7.8	0.2	0	0	0	0	0	0	0	0
5/24/2024 14:25	60803	BUCK_T1	0	0	0	0	0	0	-0.29	-0.24	1	1	0	600	600	0
5/24/2024 14:26	44301	BEAV_T2	1	5	4	0.4	0.2	-0.2	0.21	0.37	1	1	0	600	600	0
5/24/2024 14:27	60803	BUCK_T1	0	0	0	0	0	0	-0.29	-0.24	1	1	0	600	600	0
5/24/2024 14:29	29402	BELT_T1	2	2	0	4.6	4.45	-0.15	0	0	0	0	0	0	0	0
5/24/2024 14:29	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 14:29	60803	BUCK_T1	0	0	0	0	0	0	-0.29	-0.24	1	1	0	600	600	0
5/24/2024 14:30	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.63	0.58	2	2	0	1800	1800	0
5/24/2024 14:32	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 14:32	41801	GOCI_T2	1	3	2	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
5/24/2024 14:32	29402	BELT_T1	2	2	0	4.45	4.3	-0.15	0	0	0	0	0	0	0	0
5/24/2024 14:32	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.63	0.58	2	2	0	1800	1800	0
5/24/2024 14:40	16302	ALPA_T2	0	1	1	0	0.4	0.4	0.09	0.13	0	0	0	0	0	0
5/24/2024 14:41	60803	BUCK_T1	0	0	0	0	0	0	-0.24	-0.25	1	1	0	600	600	0
5/24/2024 14:42	61703	ELIZ_T1	0	0	0	0	0	0	-3.94	-4.26	4	4	0	4200	4200	0
5/24/2024 14:42	16302	ALPA_T2	0	1	1	0	0.4	0.4	0.18	0.27	0	0	0	0	0	0
5/24/2024 14:42	61701	ELIZ_T1	2	2	0	1.6	1.3	-0.3	0	0	0	0	0	0	0	0
5/24/2024 14:43	16302	ALPA_T2	0	1	1	0	0.4	0.4	0.09	0.13	0	0	0	0	0	0
5/24/2024 14:43	61701	ELIZ_T1	2	2	0	1.6	1.3	-0.3	0	0	0	0	0	0	0	0
5/24/2024 14:43	61703	ELIZ_T1	0	0	0	0	0	0	-3.94	-4.26	4	4	0	4200	4200	0
5/24/2024 14:46	61703	ELIZ_T1	0	0	0	0	0	0	-1.97	-2.13	2	2	0	2100	2100	0
5/24/2024 14:46	61701	ELIZ_T1	2	2	0	1.2	1.25	0.05	0	0	0	0	0	0	0	0
5/24/2024 14:48	64101	REPR_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
5/24/2024 14:48	61701	ELIZ_T1	2	2	0	1.2	1.25	0.05	0	0	0	0	0	0	0	0
5/24/2024 14:48	61703	ELIZ_T1	0	0	0	0	0	0	-1.97	-2.13	2	2	0	2100	2100	0
5/24/2024 14:58	29402	BELT_T1	2	1	-1	4.2	8.5	4.3	0	0	0	0	0	0	0	0
5/24/2024 14:58	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 15:00	29402	BELT_T1	1	1	0	8.5	8.2	-0.3	0	0	0	0	0	0	0	0
5/24/2024 15:00	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 15:02	52402	GRPA_T2	1	2	1	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
5/24/2024 15:02	60803	BUCK_T1	0	0	0	0	0	0	-0.25	-0.25	1	1	0	600	600	0
5/24/2024 15:02	52403	GRPA_T2	2	6	4	0.6	0.5	-0.1	0.02	0.07	0	0	0	0	0	0
5/24/2024 15:03	52403	GRPA_T2	2	6	4	0.6	0.5	-0.1	0.02	0.07	0	0	0	0	0	0
5/24/2024 15:03	52402	GRPA_T2	1	2	1	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
5/24/2024 15:03	40101	HUNT_T2	1	3	2	0.3	0.3	0	-0.22	-0.31	0	0	0	0	0	0
5/24/2024 15:04	52402	GRPA_T2	1	2	1	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
5/24/2024 15:04	52403	GRPA_T2	2	6	4	0.6	0.5	-0.1	0.02	0.07	0	0	0	0	0	0
5/24/2024 15:05	55003	NEWP_T2	1	5	4	0.1	0.18	0.08	-0.44	-0.43	1	1	0	600	600	0
5/24/2024 15:06	40101	HUNT_T2	1	3	2	0.3	0.3	0	-0.22	-0.31	0	0	0	0	0	0
5/24/2024 15:08	55103	WERT_T1	1	1	0	5.3	4.2	-1.1	0	0	0	0	0	0	0	0
5/24/2024 15:08	55101	WERT_T1	0	0	0	0	0	0	-1.96	-1.94	4	4	0	3300	3300	0
5/24/2024 15:09	62601	ENGL_T1	0	0	0	0	0	0	-0.05	-0.1	0	0	0	0	0	0
5/24/2024 15:09	14204	EALL_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
5/24/2024 15:09	62607	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/24/2024 15:12	16302	ALPA_T2	1	1	0	0.2	0.4	0.2	0.16	0.2	0	0	0	0	0	0
5/24/2024 15:15	22901	HARW_T1	0	0	0	0	0	0	-0.28	-0.23	1	1	0	1200	1200	0
5/24/2024 15:19	41801	GOCI_T2	1	3	2	0.2	0.67	0.47	0	0	0	0	0	0	0	0
5/24/2024 15:20	13503	MCMI_T2	12	158	146	0.58	0.29	-0.29	-0.73	-0.72	0	0	0	0	0	0
5/24/2024 15:21	13503	MCMI_T2	12	158	146	0.58	0.29	-0.29	-0.73	-0.72	0	0	0	0	0	0
5/24/2024 15:30	52402	GRPA_T2	2	1	-1	0.1	0	-0.1	-0.68	-0.63	0	0	0	0	0	0
5/24/2024 15:30	52403	GRPA_T2	1	5	4	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/24/2024 15:35	56801	BENV_T1	9	7	-2	0.53	0.51	-0.02	-0.71	-0.68	2	2	0	1200	1200	0
5/24/2024 15:36	13503	MCMI_T2	134	136	2	0.31	0.28	-0.03	-0.72	-0.77	0	0	0	0	0	0
5/24/2024 15:36	39601	LNFD_T1	0	1	1	0	0	0	0	0	1	1	0	900	900	0
5/24/2024 15:37	56801	BENV_T1	9	7	-2	0.53	0.51	-0.02	-0.71	-0.68	2	2	0	1200	1200	0
5/24/2024 15:38	57106	SPHI_T2	1	3	2	0.2	1.07	0.87	0	0	0	0	0	0	0	0
5/24/2024 15:38	55103	WERT_T1	1	1	0	5.5	0.7	-4.8	0	0	0	0	0	0	0	0
5/24/2024 15:38	57104	SPHI_T2	1	1	0	0.4	0.2	-0.2	-0.82	-0.8	1	1	0	900	900	0
5/24/2024 15:38	57101	SPHI_T2	0	6	6	0	0.95	0.95	0	0	0	0	0	0	0	0
5/24/2024 15:38	56802	BENV_T2	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
5/24/2024 15:38	55101	WERT_T1	0	0	0	0	0	0	-1.99	-1.98	4	4	0	3300	3300	0
5/24/2024 15:40	56801	BENV_T1	9	7	-2	0.53	0.51	-0.02	-0.68	-0.65	2	2	0	1200	1200	0
5/24/2024 15:45	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 15:45	29402	BELT_T1	0	104	104	0	1.03	1.03	0	0	0	0	0	0	0	0
5/24/2024 15:47	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 15:47	40902	JESH_T1	0	0	0	0	0	0	-1.09	-0.94	2	1	-1	1200	600	-600
5/24/2024 15:47	40901	JESH_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
5/24/2024 15:47	29402	BELT_T1	0	104	104	0	1.03	1.03	0	0	0	0	0	0	0	0
5/24/2024 15:48	40902	JESH_T1	0	0	0	0	0	0	-1.09	-0.94	2	1	-1	1200	600	-600
5/24/2024 15:48	40901	JESH_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
5/24/2024 15:50	40101	HUNT_T2	2	3	1	0.2	0.25	0.05	-0.29	-0.32	0	0	0	0	0	0
5/24/2024 15:50	40901	JESH_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
5/24/2024 15:50	40902	JESH_T1	0	0	0	0	0	0	-1.09	-0.94	2	1	-1	1200	600	-600
5/24/2024 15:51	51604	DUKE_T2	1	2	1	0.3	0.35	0.05	-0.82	-0.8	1	1	0	900	900	0
5/24/2024 15:52	13503	MCMI_T2	136	57	-79	0.28	0.25	-0.03	-1.53	-1.47	0	0	0	0	0	0
5/24/2024 16:01	29402	BELT_T1	5	104	99	0.26	1.03	0.77	0	0	0	0	0	0	0	0
5/24/2024 16:02	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 16:02	29402	BELT_T1	5	104	99	0.26	1.03	0.77	0	0	0	0	0	0	0	0
5/24/2024 16:08	66505	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/24/2024 16:08	13503	MCMI_T2	14	55	41	0.29	0.25	-0.04	-0.73	-0.69	0	0	0	0	0	0
5/24/2024 16:08	66504	SMAN_T2	0	0	0	0	0	0	-0.7	-0.67	1	1	0	1200	1200	0
5/24/2024 16:10	13302	ORVI_T2	1	1	0	1.3	0.9	-0.4	0.85	0.83	0	0	0	0	0	0
5/24/2024 16:19	29402	BELT_T1	104	83	-21	1.03	0.54	-0.49	0	0	0	0	0	0	0	0
5/24/2024 16:19	29401	BELT_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/24/2024 16:20	47101	MARL_T1	0	13	13	0	0.2	0.2	-0.69	-0.9	2	2	0	1200	1200	0
5/24/2024 16:21	65802	RTWN_T2	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
5/24/2024 16:21	65803	RTWN_T2	8	5	-3	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
5/24/2024 16:24	51505	SWAT_T2	0	0	0	0	0	0	1.17	1.04	0	0	0	0	0	0
5/24/2024 16:27	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 16:28	61304	EARL_T1	0	0	0	0	0	0	-0.12	-0.06	1	1	0	600	600	0
5/24/2024 16:30	61304	EARL_T1	0	0	0	0	0	0	-0.12	-0.06	1	1	0	600	600	0
5/24/2024 16:31	61304	EARL_T1	0	0	0	0	0	0	-0.12	-0.06	1	1	0	600	600	0
5/24/2024 16:31	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 16:33	61304	EARL_T1	0	0	0	0	0	0	-0.12	-0.06	1	1	0	600	600	0
5/24/2024 16:44	10805	CHHI_T2	3	7	4	3.93	2.8	-1.13	-0.75	-0.9	1	1	0	600	600	0
5/24/2024 16:45	64904	MILL_T1	0	0	0	0	0	0	-0.4	0.5	0	0	0	0	0	0
5/24/2024 16:46	20403	ASHF_T2	0	0	0	0	0	0	0.8	0.86	0	0	0	0	0	0
5/24/2024 16:46	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 16:46	20402	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/24/2024 16:46	20401	ASHF_T2	2	1	-1	0.85	0.6	-0.25	0	0	0	0	0	0	0	0
5/24/2024 16:48	29401	BELT_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/24/2024 16:48	29402	BELT_T1	83	91	8	0.54	0.73	0.19	0	0	0	0	0	0	0	0
5/24/2024 16:49	29401	BELT_T1	2	0	-2	0.15	0	-0.15	0	0	1	0	-1	900	0	-900
5/24/2024 16:49	29402	BELT_T1	83	91	8	0.54	0.73	0.19	0	0	0	0	0	0	0	0
5/24/2024 16:52	56803	BENV_T1	4	7	3	0.75	0.15	-0.6	0.09	0.1	1	1	0	600	600	0
5/24/2024 16:52	56801	BENV_T1	2	5	3	0.35	0.24	-0.11	0	0	0	0	0	0	0	0
5/24/2024 16:53	65803	RTWN_T2	3	4	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
5/24/2024 16:53	65802	RTWN_T2	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
5/24/2024 17:00	10801	CHHI_T1	3	20	17	0.33	0.1	-0.23	-1.29	-1.31	3	3	0	2100	2100	0
5/24/2024 17:02	61304	EARL_T1	0	0	0	0	0	0	-0.2	-0.26	2	2	0	1200	1200	0
5/24/2024 17:05	61304	EARL_T1	0	0	0	0	0	0	-0.2	-0.26	2	2	0	1200	1200	0
5/24/2024 17:26	63404	HONY_T1	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
5/24/2024 17:26	63401	HONY_T1	0	0	0	0	0	0	0.17	0.18	1	1	0	600	600	0
5/24/2024 17:27	63404	HONY_T1	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
5/24/2024 17:27	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 17:27	29402	BELT_T1	70	122	52	0.66	0.87	0.21	0	0	0	0	0	0	0	0
5/24/2024 17:27	63401	HONY_T1	0	0	0	0	0	0	0.17	0.18	1	1	0	600	600	0
5/24/2024 17:28	63404	HONY_T1	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
5/24/2024 17:28	63401	HONY_T1	0	0	0	0	0	0	0.17	0.18	1	1	0	600	600	0
5/24/2024 17:34	54203	PENN_T1	18	18	0	0.41	0.7	0.29	0.26	0.29	1	1	0	600	600	0
5/24/2024 17:34	54201	PENN_T1	3	8	5	1.53	0.83	-0.7	0	0	0	0	0	0	0	0
5/24/2024 17:34	58006	WCAR_T2	0	0	0	0	0	0	-0.42	-0.47	0	0	0	0	0	0
5/24/2024 17:41	61303	EARL_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/24/2024 17:41	61304	EARL_T1	0	0	0	0	0	0	-0.05	-0.11	1	1	0	600	600	0
5/24/2024 17:42	11103	EGYP_T1	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
5/24/2024 17:42	11102	EGYP_T1	3	2	-1	1.37	0.95	-0.42	0	0	0	0	0	0	0	0
5/24/2024 17:42	11104	EGYP_T1	11	10	-1	1.29	1.46	0.17	0	0	0	0	0	0	0	0
5/24/2024 17:44	11104	EGYP_T1	11	10	-1	1.29	1.46	0.17	0	0	0	0	0	0	0	0
5/24/2024 17:44	11102	EGYP_T1	3	2	-1	1.37	0.95	-0.42	0	0	0	0	0	0	0	0
5/24/2024 17:44	11103	EGYP_T1	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
5/24/2024 17:46	40101	HUNT_T2	0	1	1	0	0	0	-0.25	-0.26	0	0	0	0	0	0
5/24/2024 17:50	40101	HUNT_T2	0	1	1	0	0	0	-0.25	-0.26	0	0	0	0	0	0
5/24/2024 17:57	44601	SALE_T2	1	1	0	0.1	0.3	0.2	0.11	0.09	0	0	0	0	0	0
5/24/2024 18:00	58006	WCAR_T2	0	0	0	0	0	0	-0.43	-0.47	0	0	0	0	0	0
5/24/2024 18:01	67702	WERN_T2	0	0	0	0	0	0	0.3	0.24	0	0	0	0	0	0
5/24/2024 18:03	16006	DORN_T2	0	0	0	0	0	0	-0.99	-1.01	1	1	0	1200	1200	0
5/24/2024 18:07	63305	GREE_T1	3	4	1	0.23	0.3	0.07	-1.8	-1.9	1	1	0	900	900	0
5/24/2024 18:07	63304	GREE_T1	0	0	0	0	0	0	-2.11	-2.03	1	1	0	1200	1200	0
5/24/2024 18:09	63305	GREE_T1	3	4	1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
5/24/2024 18:09	63304	GREE_T1	0	0	0	0	0	0	-2.03	-2.07	1	1	0	1200	1200	0
5/24/2024 18:11	63305	GREE_T1	3	4	1	0.23	0.3	0.07	-1.9	-1.86	1	1	0	900	900	0
5/24/2024 18:19	58001	WCAR_T1	2	5	3	0.2	0.28	0.08	0	0	0	0	0	0	0	0
5/24/2024 18:19	58003	WCAR_T1	5	22	17	0.34	0.22	-0.12	1.07	1.03	0	0	0	0	0	0
5/24/2024 18:21	58006	WCAR_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
5/24/2024 18:23	64202	KINZ_T1	2	3	1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
5/24/2024 18:23	64204	KINZ_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/24/2024 18:23	64203	KINZ_T1	0	0	0	0	0	0	0.1	0.01	1	1	0	600	600	0
5/24/2024 18:24	64204	KINZ_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
5/24/2024 18:24	64203	KINZ_T1	0	0	0	0	0	0	0.1	0.01	1	1	0	600	600	0
5/24/2024 18:24	64202	KINZ_T1	2	3	1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
5/24/2024 18:28	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 18:28	29402	BELT_T1	72	0	-72	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/24/2024 18:33	56802	BENV_T2	1	2	1	0.2	0.35	0.15	-0.85	-0.8	0	0	0	0	0	0
5/24/2024 18:36	10901	COOP_T2	0	0	0	0	0	0	-0.12	-0.11	1	1	0	1200	1200	0
5/24/2024 18:36	54201	PENN_T1	12	7	-5	0.6	0.91	0.31	-0.4	-0.4	0	0	0	0	0	0
5/24/2024 18:36	54203	PENN_T1	18	18	0	0.87	0.84	-0.03	0	0	0	0	0	0	0	0
5/24/2024 18:38	55405	SHER_T1	0	0	0	0	0	0	0.23	0.17	0	0	0	0	0	0
5/24/2024 18:40	67703	WERN_T2	0	0	0	0	0	0	-0.16	-0.13	1	1	0	900	900	0
5/24/2024 18:41	67703	WERN_T2	0	0	0	0	0	0	-0.16	-0.13	1	1	0	900	900	0
5/24/2024 18:42	51602	DUKE_T2	0	0	0	0	0	0	-0.92	-0.94	1	1	0	1200	1200	0
5/24/2024 18:42	51604	DUKE_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/24/2024 18:44	67703	WERN_T2	0	0	0	0	0	0	-0.16	-0.13	1	1	0	900	900	0
5/24/2024 18:44	16302	ALPA_T2	0	0	0	0	0	0	0	-0.07	0	0	0	0	0	0
5/24/2024 18:47	51602	DUKE_T2	0	0	0	0	0	0	-0.92	-0.94	1	1	0	1200	1200	0
5/24/2024 18:47	51604	DUKE_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/24/2024 18:47	11904	ETEX_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
5/24/2024 18:53	64701	LITI_T1	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
5/24/2024 18:55	50502	MECH_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
5/24/2024 18:55	50505	MECH_T1	0	0	0	0	0	0	-1.68	-1.74	0	0	0	0	0	0
5/24/2024 18:55	50501	MECH_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/24/2024 18:57	52402	GRPA_T2	4	4	0	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
5/24/2024 18:57	52403	GRPA_T2	19	33	14	1.03	0.62	-0.41	-0.26	-0.32	0	0	0	0	0	0
5/24/2024 19:01	65604	QVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/24/2024 19:01	65603	QVIL_T2	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
5/24/2024 19:01	65602	QVIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/24/2024 19:02	24801	VALM_T1	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
5/24/2024 19:05	12601	MACA_T1	0	0	0	0	0	0	1.41	1.39	0	0	0	0	0	0
5/24/2024 19:05	12602	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 19:05	12606	MACA_T1	0	13	13	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 19:07	20603	GRWD_T2	15	17	2	0.19	0.19	0	-0.41	-0.44	1	1	0	900	900	0
5/24/2024 19:11	29402	BELT_T1	1	2	1	8.3	8.8	0.5	0	0	0	0	0	0	0	0
5/24/2024 19:11	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 19:14	46506	LOHA_T1	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
5/24/2024 19:15	50201	HARR_T3	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/24/2024 19:15	50105	HARR_T3	6	6	0	5.95	5.75	-0.2	0	0	0	0	0	0	0	0
5/24/2024 19:15	50107	HARR_T3	0	0	0	0	0	0	0.78	0.79	0	0	0	0	0	0
5/24/2024 19:16	64204	KINZ_T1	1	13	12	1	0.24	-0.76	0	0	0	0	0	0	0	0
5/24/2024 19:16	64202	KINZ_T1	2	8	6	0.45	0.21	-0.24	0	0	0	0	0	0	0	0
5/24/2024 19:16	64201	KINZ_T1	0	5	5	0	0.46	0.46	0	0	0	0	0	0	0	0
5/24/2024 19:16	17802	GILB_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
5/24/2024 19:16	64203	KINZ_T1	0	0	0	0	0	0	0.08	0.05	1	1	0	600	600	0
5/24/2024 19:47	15204	SFAR_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
5/24/2024 19:49	15204	SFAR_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
5/24/2024 20:03	40201	BEGA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/24/2024 20:16	24801	VALM_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
5/24/2024 20:18	67702	WERN_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
5/24/2024 20:21	64201	KINZ_T1	7	7	0	0.5	0.36	-0.14	0	0	0	0	0	0	0	0
5/24/2024 20:21	64202	KINZ_T1	11	8	-3	0.31	0.13	-0.18	0	0	0	0	0	0	0	0
5/24/2024 20:21	64204	KINZ_T1	21	15	-6	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
5/24/2024 20:21	64203	KINZ_T1	0	0	0	0	0	0	0.75	0.66	0	0	0	0	0	0
5/24/2024 20:22	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.28	2	2	0	1200	1200	0
5/24/2024 20:23	64202	KINZ_T1	11	8	-3	0.31	0.13	-0.18	0	0	0	0	0	0	0	0
5/24/2024 20:23	64201	KINZ_T1	7	7	0	0.5	0.36	-0.14	0	0	0	0	0	0	0	0
5/24/2024 20:23	64204	KINZ_T1	21	15	-6	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
5/24/2024 20:23	64203	KINZ_T1	0	0	0	0	0	0	0.66	0.59	0	0	0	0	0	0
5/24/2024 20:29	64202	KINZ_T1	11	8	-3	0.31	0.13	-0.18	0	0	0	0	0	0	0	0
5/24/2024 20:29	64204	KINZ_T1	21	15	-6	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
5/24/2024 20:29	64201	KINZ_T1	7	7	0	0.5	0.36	-0.14	0	0	0	0	0	0	0	0
5/24/2024 20:29	64203	KINZ_T1	0	0	0	0	0	0	0.66	0.59	0	0	0	0	0	0
5/24/2024 20:30	64204	KINZ_T1	15	1	-14	0.17	0.9	0.73	0	0	0	0	0	0	0	0
5/24/2024 20:30	64201	KINZ_T1	7	1	-6	0.36	0.4	0.04	0	0	0	0	0	0	0	0
5/24/2024 20:30	64203	KINZ_T1	0	0	0	0	0	0	0.66	0.59	0	0	0	0	0	0
5/24/2024 20:30	64202	KINZ_T1	8	0	-8	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/24/2024 21:02	47001	HUGH_T2	0	0	0	0	0	0	-0.42	-0.61	0	0	0	0	0	0
5/24/2024 21:05	47001	HUGH_T2	0	0	0	0	0	0	-0.42	-0.61	0	0	0	0	0	0
5/24/2024 21:07	47001	HUGH_T2	0	0	0	0	0	0	-0.42	-0.61	0	0	0	0	0	0
5/24/2024 21:08	46004	BERW_T2	0	0	0	0	0	0	-0.31	-0.35	0	0	0	0	0	0
5/24/2024 21:21	56801	BENV_T1	8	13	5	0.56	0.67	0.11	-0.63	-0.7	1	1	0	600	600	0
5/24/2024 21:23	56802	BENV_T2	1	161	160	0.3	0.28	-0.02	-1.1	-1.15	0	0	0	0	0	0
5/24/2024 21:25	58402	MORO_T1	0	0	0	0	0	0	-0.98	-1.06	3	3	0	2400	2400	0
5/24/2024 21:29	58402	MORO_T1	0	0	0	0	0	0	-0.98	-1.06	3	3	0	2400	2400	0
5/24/2024 21:37	12701	MACU_T1	0	0	0	0	0	0	-1.02	-1.02	1	1	0	1200	1200	0
5/24/2024 21:38	12701	MACU_T1	0	0	0	0	0	0	-1.02	-1.02	1	1	0	1200	1200	0
5/24/2024 21:39	57303	MOAL_T2	1	1	0	7.4	7.1	-0.3	0	0	0	0	0	0	0	0
5/24/2024 21:39	57302	MOAL_T2	0	0	0	0	0	0	-1.26	-1.21	1	1	0	1200	1200	0
5/24/2024 21:39	57304	MOAL_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
5/24/2024 21:40	43302	WATS_T2	4	4	0	0.55	0.23	-0.32	0	0	0	0	0	0	0	0
5/24/2024 21:40	43301	WATS_T2	1	0	-1	1	0	-1	0.99	0.94	0	0	0	0	0	0
5/24/2024 21:43	43301	WATS_T2	1	0	-1	1	0	-1	0.99	0.94	0	0	0	0	0	0
5/24/2024 21:43	43302	WATS_T2	4	4	0	0.55	0.23	-0.32	0	0	0	0	0	0	0	0
5/24/2024 21:47	43302	WATS_T2	4	2	-2	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
5/24/2024 21:47	43301	WATS_T2	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
5/24/2024 21:50	60101	COCA_T1	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
5/24/2024 21:51	16402	MOPO_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
5/24/2024 21:52	16402	MOPO_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
5/24/2024 21:58	53601	DALM_T2	1	1	0	0.5	0.7	0.2	-0.05	-0.07	0	0	0	0	0	0
5/24/2024 22:05	25603	ARRO_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/24/2024 22:07	46801	HEPB_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
5/24/2024 22:07	46803	HEPB_T2	0	0	0	0	0	0	0.53	0.57	0	0	0	0	0	0
5/24/2024 22:08	46801	HEPB_T2	2	2	0	0.35	0.5	0.15	0.81	0.75	0	0	0	0	0	0
5/24/2024 22:08	56802	BENV_T2	258	31	-227	0.42	0.16	-0.26	-1.21	-1.28	0	0	0	0	0	0
5/24/2024 22:13	67503	WEWI_T2	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
5/24/2024 22:13	67502	WEWI_T2	0	6	6	0	0.28	0.28	-1.13	-1.22	1	1	0	900	900	0
5/24/2024 22:14	67502	WEWI_T2	0	6	6	0	0.28	0.28	-2.26	-2.44	2	2	0	1800	1800	0
5/24/2024 22:15	17002	RIRO_T2	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
5/24/2024 22:15	67603	WARW_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
5/24/2024 22:15	29401	BELT_T1	14	49	35	0.12	0.19	0.07	0	0	3	3	0	2700	2700	0
5/24/2024 22:15	29402	BELT_T1	65	127	62	0.47	0.54	0.07	0	0	0	0	0	0	0	0
5/24/2024 22:16	64202	KINZ_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
5/24/2024 22:16	25603	ARRO_T1	0	1	1	0	0.1	0.1	-0.01	-0.05	0	0	0	0	0	0
5/24/2024 22:16	60803	BUCK_T1	0	0	0	0	0	0	-0.42	-0.43	1	1	0	600	600	0
5/24/2024 22:16	64204	KINZ_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/24/2024 22:16	60101	COCA_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
5/24/2024 22:16	44302	BEAV_T2	117	154	37	0.37	0.38	0.01	0	0	0	0	0	0	0	0
5/24/2024 22:16	13501	MCMI_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
5/24/2024 22:16	64201	KINZ_T1	2	1	-1	0.5	0.8	0.3	0.57	0.55	1	1	0	300	300	0
5/24/2024 22:16	44301	BEAV_T2	2	2	0	0.45	0.65	0.2	-0.21	-0.16	1	1	0	600	600	0
5/24/2024 22:17	13501	MCMI_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
5/24/2024 22:17	24801	VALM_T1	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
5/24/2024 22:17	67703	WERN_T2	0	0	0	0	0	0	-0.56	-0.63	1	1	0	900	900	0
5/24/2024 22:18	60101	COCA_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
5/24/2024 22:18	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/24/2024 22:18	15601	NSTR_T2	3	14	11	1.03	0.39	-0.64	0	0	0	0	0	0	0	0
5/24/2024 22:18	15602	NSTR_T2	0	29	29	0	0.1	0.1	0	0	0	0	0	0	0	0
5/24/2024 22:18	64201	KINZ_T1	2	1	-1	0.5	0.8	0.3	0.57	0.55	1	1	0	300	300	0
5/24/2024 22:18	64202	KINZ_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
5/24/2024 22:18	15603	NSTR_T2	1	6	5	0.1	0.13	0.03	-0.48	-0.47	0	0	0	0	0	0
5/24/2024 22:18	13302	ORVI_T2	0	0	0	0	0	0	0.24	0.18	0	0	0	0	0	0
5/24/2024 22:18	65001	NEFF_T2	0	1	1	0	0.1	0.1	-1.05	-1.04	1	1	0	1200	1200	0
5/24/2024 22:18	16102	BING_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/24/2024 22:18	64702	LITI_T2	0	0	0	0	0	0	-0.35	-0.4	0	0	0	0	0	0
5/24/2024 22:18	66504	SMAN_T2	0	0	0	0	0	0	-0.25	-2.92	0	2	2	0	2400	2400
5/24/2024 22:18	40101	HUNT_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
5/24/2024 22:18	16103	BING_T2	0	0	0	0	0	0	-0.92	-0.91	1	1	0	600	600	0
5/24/2024 22:18	64204	KINZ_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/24/2024 22:19	64702	LITI_T2	0	0	0	0	0	0	-0.7	-0.8	0	0	0	0	0	0
5/24/2024 22:19	45902	AUBU_T1	21	10	-11	0.26	0.2	-0.06	-1.06	-1.05	1	1	0	600	600	0
5/24/2024 22:19	15702	TANN_T2	0	15	15	0	0.13	0.13	-0.33	-0.33	0	0	0	0	0	0
5/24/2024 22:19	64701	LITI_T1	0	1	1	0	0	0	0.37	0.31	0	0	0	0	0	0
5/24/2024 22:19	61304	EARL_T1	0	0	0	0	0	0	-0.7	-0.76	1	1	0	600	600	0
5/24/2024 22:19	29401	BELT_T1	14	49	35	0.12	0.19	0.07	0	0	0	0	0	0	0	0
5/24/2024 22:19	50201	HARR_T3	2	0	-2	5	4.7	-0.3	0	0	0	0	0	0	0	0
5/24/2024 22:19	15703	TANN_T2	1	4	3	5	1.25	-3.75	0	0	0	0	0	0	0	0
5/24/2024 22:19	29402	BELT_T1	65	127	62	0.47	0.54	0.07	0	0	0	0	0	0	0	0
5/24/2024 22:19	56802	BENV_T2	19	31	12	0.16	0.16	0	-2.42	-2.56	0	0	0	0	0	0
5/24/2024 22:19	25402	LAHA_T2	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
5/24/2024 22:19	50107	HARR_T3	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
5/24/2024 22:19	50105	HARR_T3	6	6	0	5.83	5.92	0.09	0	0	0	0	0	0	0	0
5/24/2024 22:19	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/24/2024 22:19	64902	MILL_T2	0	0	0	0	0	0	-0.29	-0.34	1	1	0	900	900	0
5/24/2024 22:20	11104	EGYP_T1	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/24/2024 22:20	67605	WARW_T1	0	0	0	0	0	0	-1.21	-1.23	0	0	0	0	0	0
5/24/2024 22:20	51002	NHAR_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/24/2024 22:20	29401	BELT_T1	14	49	35	0.12	0.19	0.07	0	0	1	1	0	900	900	0
5/24/2024 22:20	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/24/2024 22:20	51004	NHAR_T1	1	1	0	6.5	6.3	-0.2	-1.58	-1.59	0	0	0	0	0	0
5/24/2024 22:20	16102	BING_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/24/2024 22:20	10805	CHHI_T2	1	1	0	8.2	7.8	-0.4	-1.02	-1.03	1	1	0	600	600	0
5/24/2024 22:20	67703	WERN_T2	0	0	0	0	0	0	-0.56	-0.63	1	1	0	900	900	0
5/24/2024 22:20	50505	MECH_T1	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
5/24/2024 22:20	16006	DORN_T2	0	0	0	0	0	0	1.09	1.13	0	0	0	0	0	0
5/24/2024 22:20	11103	EGYP_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
5/24/2024 22:20	63404	HONY_T1	0	15	15	0	0.11	0.11	0	0	0	0	0	0	0	0
5/24/2024 22:20	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 22:20	13303	ORVI_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
5/24/2024 22:20	17802	GILB_T1	0	0	0	0	0	0	0.12	0.24	0	0	0	0	0	0
5/24/2024 22:20	50502	MECH_T1	1	1	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
5/24/2024 22:20	29402	BELT_T1	65	127	62	0.47	0.54	0.07	0	0	0	0	0	0	0	0
5/24/2024 22:20	50501	MECH_T1	0	4	4	0	0.8	0.8	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/24/2024 22:20	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 22:20	63401	HONY_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
5/24/2024 22:20	16101	BING_T2	0	0	0	0	0	0	0.64	0.6	0	0	0	0	0	0
5/24/2024 22:21	61102	BERK_T5	0	0	0	0	0	0	1.4	1.38	1	1	0	300	300	0
5/24/2024 22:21	59101	WALK_T2	0	0	0	0	0	0	-0.38	-0.42	0	0	0	0	0	0
5/24/2024 22:21	67702	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
5/24/2024 22:21	63404	HONY_T1	0	15	15	0	0.11	0.11	0	0	0	0	0	0	0	0
5/24/2024 22:21	63401	HONY_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
5/24/2024 22:21	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 22:21	45902	AUBU_T1	21	10	-11	0.26	0.2	-0.06	-2.11	-2.09	2	2	0	1200	1200	0
5/24/2024 22:21	55003	NEWP_T2	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
5/24/2024 22:21	67703	WERN_T2	0	0	0	0	0	0	-0.56	-0.63	1	1	0	900	900	0
5/24/2024 22:21	56802	BENV_T2	19	31	12	0.16	0.16	0	-1.21	-1.28	0	0	0	0	0	0
5/24/2024 22:21	59102	WALK_T2	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
5/24/2024 22:21	40303	TAMA_T3	0	0	0	0	0	0	2.06	2.08	0	0	0	0	0	0
5/24/2024 22:22	43301	WATS_T2	0	1	1	0	0.2	0.2	0.46	0.44	0	0	0	0	0	0
5/24/2024 22:22	56802	BENV_T2	19	31	12	0.16	0.16	0	-1.21	-1.28	0	0	0	0	0	0
5/24/2024 22:22	67703	WERN_T2	0	0	0	0	0	0	-0.56	-0.63	1	1	0	900	900	0
5/24/2024 22:22	29401	BELT_T1	14	49	35	0.12	0.19	0.07	0	0	1	1	0	900	900	0
5/24/2024 22:22	64203	KINZ_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
5/24/2024 22:22	67605	WARW_T1	0	0	0	0	0	0	-1.21	-1.23	0	0	0	0	0	0
5/24/2024 22:22	64202	KINZ_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
5/24/2024 22:22	11904	ETEX_T2	0	0	0	0	0	0	-0.59	-0.66	0	0	0	0	0	0
5/24/2024 22:22	20403	ASHF_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
5/24/2024 22:22	43302	WATS_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
5/24/2024 22:22	64204	KINZ_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/24/2024 22:22	29402	BELT_T1	65	127	62	0.47	0.54	0.07	0	0	0	0	0	0	0	0
5/24/2024 22:22	16302	ALPA_T2	0	0	0	0	0	0	0.94	0.87	0	0	0	0	0	0
5/24/2024 22:22	64201	KINZ_T1	2	1	-1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/24/2024 22:22	64904	MILL_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
5/24/2024 22:22	48302	ORWI_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/24/2024 22:22	23001	SAJO_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
5/24/2024 22:23	59302	MCAL_T1	0	1	1	0	0.2	0.2	-0.34	-0.31	1	1	0	600	600	0
5/24/2024 22:23	56801	BENV_T1	6	6	0	0.82	0.9	0.08	0	0	0	0	0	0	0	0
5/24/2024 22:23	54201	PENN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/24/2024 22:23	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/24/2024 22:23	63304	GREE_T1	0	0	0	0	0	0	-1.54	-1.59	0	0	0	0	0	0
5/24/2024 22:23	46506	LOHA_T1	0	0	0	0	0	0	-0.27	-0.31	0	0	0	0	0	0
5/24/2024 22:23	45902	AUBU_T1	21	10	-11	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
5/24/2024 22:23	61701	ELIZ_T1	1	1	0	3.7	3.9	0.2	0	0	0	0	0	0	0	0
5/24/2024 22:23	45901	AUBU_T1	0	0	0	0	0	0	1.15	1.18	0	0	0	0	0	0
5/24/2024 22:23	60803	BUCK_T1	0	0	0	0	0	0	-0.43	-0.45	1	1	0	600	600	0
5/24/2024 22:23	46502	LOHA_T1	24	25	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
5/24/2024 22:23	13501	MCMI_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
5/24/2024 22:23	56803	BENV_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/24/2024 22:23	11104	EGYP_T1	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/24/2024 22:23	67803	WLAN_T1	0	0	0	0	0	0	-0.56	-0.59	0	0	0	0	0	0
5/24/2024 22:23	64101	REFR_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
5/24/2024 22:23	55002	NEWP_T1	4	4	0	0.7	0.88	0.18	-0.36	-0.38	0	0	0	0	0	0
5/24/2024 22:23	63305	GREE_T1	2	2	0	0.1	0.1	0	-1.1	-1.16	0	0	0	0	0	0
5/24/2024 22:23	46504	LOHA_T1	2	2	0	0.85	0.45	-0.4	0	0	0	0	0	0	0	0
5/24/2024 22:23	59301	MCAL_T1	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/24/2024 22:23	61703	ELIZ_T1	0	0	0	0	0	0	-4.4	-4.12	4	4	0	4200	4200	0
5/24/2024 22:23	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 22:23	54203	PENN_T1	18	18	0	0.21	0.26	0.05	1	1.02	0	0	0	0	0	0
5/24/2024 22:23	40302	TAMA_T3	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
5/24/2024 22:23	67805	WLAN_T1	19	58	39	0.14	0.14	0	0	0	0	0	0	0	0	0
5/24/2024 22:23	66504	SMAN_T2	0	0	0	0	0	0	-1.46	-1.49	0	1	1	0	1200	1200
5/24/2024 22:23	11103	EGYP_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
5/24/2024 22:24	45902	AUBU_T1	21	10	-11	0.26	0.2	-0.06	-1.05	-1.06	1	1	0	600	600	0
5/24/2024 22:24	46001	BERW_T1	0	0	0	0	0	0	0.75	0.69	0	0	0	0	0	0
5/24/2024 22:24	67605	WARW_T1	0	0	0	0	0	0	-1.23	-1.25	0	0	0	0	0	0
5/24/2024 22:24	59101	WALK_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
5/24/2024 22:24	63305	GREE_T1	2	2	0	0.1	0.1	0	-1.1	-1.16	0	0	0	0	0	0
5/24/2024 22:24	61703	ELIZ_T1	0	0	0	0	0	0	-2.2	-2.06	2	2	0	2100	2100	0
5/24/2024 22:24	52401	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/24/2024 22:24	52403	GRPA_T2	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
5/24/2024 22:24	56802	BENV_T2	19	31	12	0.16	0.16	0	-3.84	-3.9	0	0	0	0	0	0
5/24/2024 22:24	52402	GRPA_T2	3	4	1	0.6	0.63	0.03	0	0	0	0	0	0	0	0
5/24/2024 22:24	29401	BELT_T1	14	49	35	0.12	0.19	0.07	0	0	1	1	0	900	900	0
5/24/2024 22:24	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/24/2024 22:24	59102	WALK_T2	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
5/24/2024 22:24	61701	ELIZ_T1	1	1	0	3.7	3.9	0.2	0	0	0	0	0	0	0	0
5/24/2024 22:24	64101	REFR_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
5/24/2024 22:24	13905	SEID_T1	0	0	0	0	0	0	-0.81	-0.85	1	1	0	1200	1200	0
5/24/2024 22:24	63804	HEMP_T1	1	1	0	5.6	5.9	0.3	-0.12	-0.21	0	0	0	0	0	0
5/24/2024 22:24	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 22:24	16302	ALPA_T2	0	0	0	0	0	0	1.74	1.68	0	0	0	0	0	0
5/24/2024 22:24	29402	BELT_T1	65	127	62	0.47	0.54	0.07	0	0	0	0	0	0	0	0
5/24/2024 22:25	23403	HONE_T1	0	0	0	0	0	0	-0.73	-0.57	0	0	0	0	0	0
5/24/2024 22:25	66502	SMAN_T2	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
5/24/2024 22:25	44703	MUNC_T2	3	3	0	0.57	0.6	0.03	0	0	0	0	0	0	0	0
5/24/2024 22:25	43402	BENT_T1	3	3	0	0.1	0.37	0.27	-0.88	-0.9	1	1	0	900	900	0
5/24/2024 22:25	60803	BUCK_T1	0	0	0	0	0	0	-0.43	-0.45	1	1	0	600	600	0
5/24/2024 22:25	44502	HAMI_T2	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0	0
5/24/2024 22:25	14801	TREI_T2	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
5/24/2024 22:25	61304	EARL_T1	0	0	0	0	0	0	-0.76	-0.75	1	1	0	600	600	0
5/24/2024 22:25	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 22:25	54203	PENN_T1	18	18	0	0.21	0.26	0.05	0	0	0	0	0	0	0	0
5/24/2024 22:25	15204	SFAR_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
5/24/2024 22:25	10801	CHHI_T1	0	0	0	0	0	0	-1.78	-1.83	3	3	0	2100	2100	0
5/24/2024 22:25	44505	HAMI_T2	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
5/24/2024 22:25	45801	HEGI_T1	0	0	0	0	0	0	-0.33	-0.32	1	1	0	900	900	0
5/24/2024 22:25	42902	MIDD_T2	102	152	50	0.58	0.58	0	-0.6	-0.58	0	0	0	0	0	0
5/24/2024 22:25	65603	QVIL_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
5/24/2024 22:25	54201	PENN_T1	1	0	-1	0.1	0	-0.1	1.44	1.41	0	0	0	0	0	0
5/24/2024 22:25	14204	EALL_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
5/24/2024 22:25	42901	MIDD_T2	257	356	99	0.44	0.46	0.02	0	0	0	0	0	0	0	0
5/24/2024 22:25	42201	SHEN_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
5/24/2024 22:25	42903	MIDD_T2	40	65	25	0.33	0.33	0	0	0	0	0	0	0	0	0
5/24/2024 22:25	44702	MUNC_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/24/2024 22:25	17802	GILB_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
5/24/2024 22:25	45902	AUBU_T1	21	10	-11	0.26	0.2	-0.06	-1.05	-1.06	1	1	0	600	600	0
5/24/2024 22:25	60102	COCA_T1	0	0	0	0	0	0	0.27	0.37	2	2	0	1200	1200	0
5/24/2024 22:25	46002	BERW_T2	0	0	0	0	0	0	-0.14	-0.18	0	0	0	0	0	0
5/24/2024 22:25	44701	MUNC_T2	2	1	-1	0.1	0.1	0	-1.48	-1.51	0	0	0	0	0	0
5/24/2024 22:26	22905	HARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/24/2024 22:26	61701	ELIZ_T1	1	1	0	3.7	3.9	0.2	0	0	0	0	0	0	0	0
5/24/2024 22:26	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/24/2024 22:26	61703	ELIZ_T1	0	0	0	0	0	0	-2.2	-2.06	2	2	0	2100	2100	0
5/24/2024 22:26	10903	COOP_T2	2	45	43	0.1	0.21	0.11	0	0	0	0	0	0	0	0
5/24/2024 22:26	58003	WCAR_T1	1	1	0	1.5	1.7	0.2	2.31	2.22	0	0	0	0	0	0
5/24/2024 22:26	56802	BENV_T2	19	31	12	0.16	0.16	0	-3.84	-3.9	0	0	0	0	0	0
5/24/2024 22:26	10801	CHHI_T1	0	0	0	0	0	0	-1.78	-1.83	3	3	0	2100	2100	0
5/24/2024 22:26	58001	WCAR_T1	4	4	0	0.38	0.78	0.4	0	0	0	0	0	0	0	0
5/24/2024 22:26	57101	SPHI_T2	6	6	0	0.7	1	0.3	0	0	0	0	0	0	0	0
5/24/2024 22:26	57106	SPHI_T2	3	3	0	1.13	1.33	0.2	0	0	0	0	0	0	0	0
5/24/2024 22:26	13503	MCMI_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
5/24/2024 22:26	10901	COOP_T2	0	2	2	0	0.1	0.1	-0.44	-0.5	1	1	0	1200	1200	0
5/24/2024 22:26	57104	SPHI_T2	1	0	-1	0.1	0	-0.1	-0.59	-0.56	0	0	0	0	0	0
5/24/2024 22:26	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 22:26	22901	HARW_T1	0	0	0	0	0	0	-0.38	-0.41	1	1	0	1200	1200	0
5/24/2024 22:26	65205	PRIN_T1	1	1	0	1.4	1.7	0.3	0	0	0	0	0	0	0	0
5/24/2024 22:26	22903	HARW_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/24/2024 22:27	67605	WARW_T1	0	0	0	0	0	0	-1.23	-1.25	0	0	0	0	0	0
5/24/2024 22:27	58102	NEKI_T1	1	1	0	0.7	0.8	0.1	-1.06	-1.08	0	0	0	0	0	0
5/24/2024 22:27	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.32	-0.41	2	2	0	1800	1800	0
5/24/2024 22:27	61102	BERK_T5	0	0	0	0	0	0	1.38	1.36	1	1	0	300	300	0
5/24/2024 22:27	45402	WBLO_T2	1	1	0	1.2	1.5	0.3	-0.66	-0.66	0	0	0	0	0	0
5/24/2024 22:27	23201	HIRU_T2	0	60	60	0	0.16	0.16	0	0	0	0	0	0	0	0
5/24/2024 22:27	67203	TEHI_T1	0	0	0	0	0	0	1.58	1.57	1	1	0	900	900	0
5/24/2024 22:27	60101	COCA_T1	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
5/24/2024 22:27	51602	DUKE_T2	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
5/24/2024 22:27	56801	BENV_T1	6	6	0	0.82	0.9	0.08	-0.27	-0.28	1	1	0	600	600	0
5/24/2024 22:27	64101	REFR_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
5/24/2024 22:27	23203	HIRU_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
5/24/2024 22:27	53903	HALI_T2	2	2	0	0.8	1.1	0.3	-0.09	-0.08	0	0	0	0	0	0
5/24/2024 22:27	45902	AUBU_T1	21	10	-11	0.26	0.2	-0.06	-1.05	-1.06	1	1	0	600	600	0
5/24/2024 22:27	15703	TANN_T2	1	4	3	5	1.25	-3.75	0	0	0	0	0	0	0	0
5/24/2024 22:27	53902	HALI_T2	1	1	0	4.7	5.5	0.8	0	0	0	0	0	0	0	0
5/24/2024 22:27	15702	TANN_T2	0	15	15	0	0.13	0.13	-0.33	-0.27	0	0	0	0	0	0
5/24/2024 22:27	44502	HAMI_T2	1	1	0	3.3	3.3	0	-0.76	-0.77	0	0	0	0	0	0
5/24/2024 22:27	25503	MADI_T1	113	144	31	0.44	0.55	0.11	-0.9	-0.9	0	0	0	0	0	0
5/24/2024 22:28	56801	BENV_T1	6	6	0	0.82	0.9	0.08	-0.27	-0.28	1	1	0	600	600	0
5/24/2024 22:28	59101	WALK_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
5/24/2024 22:28	42903	MIDD_T2	40	65	25	0.33	0.33	0	0	0	0	0	0	0	0	0
5/24/2024 22:28	64101	REFR_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
5/24/2024 22:28	45902	AUBU_T1	21	10	-11	0.26	0.2	-0.06	-1.05	-1.06	1	1	0	600	600	0
5/24/2024 22:28	24205	PROV_T3	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
5/24/2024 22:28	55101	WERT_T1	0	0	0	0	0	0	-1.17	-1.09	2	2	0	1500	1500	0
5/24/2024 22:28	63404	HONY_T1	0	15	15	0	0.11	0.11	0	0	0	0	0	0	0	0
5/24/2024 22:28	42901	MIDD_T2	257	356	99	0.44	0.46	0.02	0	0	0	0	0	0	0	0
5/24/2024 22:28	24204	PROV_T3	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
5/24/2024 22:28	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/24/2024 22:28	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.32	-0.41	2	2	0	1800	1800	0
5/24/2024 22:28	63401	HONY_T1	0	0	0	0	0	0	0.07	0.19	0	0	0	0	0	0
5/24/2024 22:28	26603	BROO_T1	1	1	0	0.2	0.2	0	0.54	0.55	0	0	0	0	0	0
5/24/2024 22:28	42902	MIDD_T2	102	152	50	0.58	0.58	0	-0.6	-0.58	0	0	0	0	0	0
5/24/2024 22:28	46001	BERW_T1	0	0	0	0	0	0	0.75	0.69	0	0	0	0	0	0
5/24/2024 22:28	59102	WALK_T2	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
5/24/2024 22:28	58006	WCAR_T2	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
5/24/2024 22:28	15702	TANN_T2	0	15	15	0	0.13	0.13	-0.33	-0.27	0	0	0	0	0	0
5/24/2024 22:28	24201	PROV_T3	1	1	0	7.5	7.1	-0.4	-1.23	-1.24	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/24/2024 22:28	15703	TANN_T2	1	4	3	5	1.25	-3.75	0	0	0	0	0	0	0	0
5/24/2024 22:29	56802	BENV_T2	19	31	12	0.16	0.16	0	-1.28	-1.3	0	0	0	0	0	0
5/24/2024 22:29	44302	BEAV_T2	117	154	37	0.37	0.38	0.01	0	0	0	0	0	0	0	0
5/24/2024 22:29	64101	REFR_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
5/24/2024 22:29	44702	MUNC_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/24/2024 22:29	24104	EHAZ_T1	0	0	0	0	0	0	-0.91	-0.88	1	1	0	1200	1200	0
5/24/2024 22:29	17804	GILB_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
5/24/2024 22:29	44301	BEAV_T2	2	2	0	0.45	0.65	0.2	-0.32	-0.3	2	2	0	1200	1200	0
5/24/2024 22:29	66502	SMAN_T2	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
5/24/2024 22:29	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/24/2024 22:29	43302	WATS_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
5/24/2024 22:29	24105	EHAZ_T1	4	4	0	6.28	6.13	-0.15	0	0	0	0	0	0	0	0
5/24/2024 22:29	44701	MUNC_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
5/24/2024 22:29	17805	GILB_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/24/2024 22:29	67402	WAKE_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
5/24/2024 22:29	55002	NEWP_T1	4	4	0	0.7	0.88	0.18	-0.18	-0.19	0	0	0	0	0	0
5/24/2024 22:29	58402	MORO_T1	0	0	0	0	0	0	-0.29	-0.32	2	2	0	1500	1500	0
5/24/2024 22:29	46001	BERW_T1	0	0	0	0	0	0	1.5	1.38	0	0	0	0	0	0
5/24/2024 22:29	44703	MUNC_T2	3	3	0	0.57	0.6	0.03	0.64	0.62	0	0	0	0	0	0
5/24/2024 22:29	55101	WERT_T1	0	0	0	0	0	0	-1.17	-1.09	2	2	0	1500	1500	0
5/24/2024 22:29	21901	HUMB_T1	0	0	0	0	0	0	-1.98	-2.07	0	0	0	0	0	0
5/24/2024 22:29	60803	BUCK_T1	0	0	0	0	0	0	-0.43	-0.45	1	1	0	600	600	0
5/24/2024 22:29	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 22:29	24102	EHAZ_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
5/24/2024 22:29	43301	WATS_T2	0	1	1	0	0.2	0.2	0.44	-0.54	0	1	1	0	900	900
5/24/2024 22:30	56802	BENV_T2	29	19	-10	0.16	0.15	-0.01	-3.84	-3.9	0	0	0	0	0	0
5/24/2024 22:30	44505	HAMI_T2	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
5/24/2024 22:30	53902	HALI_T2	1	1	0	5.2	5.6	0.4	0	0	0	0	0	0	0	0
5/24/2024 22:30	63302	GREE_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
5/24/2024 22:30	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.32	-0.41	2	2	0	1800	1800	0
5/24/2024 22:30	43201	MVIL_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
5/24/2024 22:30	13503	MCMI_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
5/24/2024 22:30	44601	SALE_T2	1	1	0	0.4	0.4	0	-0.07	-0.05	0	0	0	0	0	0
5/24/2024 22:30	64802	MONE_T2	0	0	0	0	0	0	0.03	0.18	0	0	0	0	0	0
5/24/2024 22:30	64801	MONE_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/24/2024 22:30	53903	HALI_T2	2	2	0	1	1.25	0.25	-0.09	-0.08	0	0	0	0	0	0
5/24/2024 22:30	16302	ALPA_T2	0	0	0	0	0	0	0.87	0.84	0	0	0	0	0	0
5/24/2024 22:30	29402	BELT_T1	118	115	-3	0.54	0.51	-0.03	0	0	0	0	0	0	0	0
5/24/2024 22:30	63305	GREE_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/24/2024 22:30	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	-0.84	-0.83	0	0	0	0	0	0
5/24/2024 22:30	43202	MVIL_T2	57	85	28	0.41	0.67	0.26	0	0	0	0	0	0	0	0
5/24/2024 22:30	55002	NEWP_T1	4	4	0	0.88	0.63	-0.25	-0.18	-0.19	0	0	0	0	0	0
5/24/2024 22:30	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
5/24/2024 22:30	12601	MACA_T1	0	0	0	0	0	0	0.99	0.99	0	0	0	0	0	0
5/24/2024 22:30	29401	BELT_T1	47	43	-4	0.19	0.19	0	0	0	1	1	0	900	900	0
5/24/2024 22:31	40902	JESH_T1	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
5/24/2024 22:31	61701	ELIZ_T1	1	1	0	3.5	4.1	0.6	0	0	0	0	0	0	0	0
5/24/2024 22:31	42902	MIDD_T2	105	232	127	0.56	0.66	0.1	-1.2	-1.16	0	0	0	0	0	0
5/24/2024 22:31	63304	GREE_T1	0	0	0	0	0	0	-1.54	-1.59	0	0	0	0	0	0
5/24/2024 22:31	42903	MIDD_T2	25	117	92	0.36	0.57	0.21	0	0	0	0	0	0	0	0
5/24/2024 22:31	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 22:31	14403	SSLA_T1	0	0	0	0	0	0	0.81	0.76	0	0	0	0	0	0
5/24/2024 22:31	14404	SSLA_T1	1	1	0	4.4	4.9	0.5	0	0	0	0	0	0	0	0
5/24/2024 22:31	55405	SHER_T1	1	6	5	0.1	0.32	0.22	-0.67	-0.65	0	0	0	0	0	0
5/24/2024 22:31	15204	SFAR_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
5/24/2024 22:31	61703	ELIZ_T1	0	0	0	0	0	0	-2.2	-2.06	2	2	0	2100	2100	0
5/24/2024 22:31	63305	GREE_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/24/2024 22:31	56802	BENV_T2	29	19	-10	0.16	0.15	-0.01	-1.28	-1.3	0	0	0	0	0	0
5/24/2024 22:31	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.23	-1.25	0	0	0	0	0	0
5/24/2024 22:31	60102	COCA_T1	0	0	0	0	0	0	0.27	0.37	2	2	0	1200	1200	0
5/24/2024 22:31	46001	BERW_T1	0	0	0	0	0	0	0.75	0.69	0	0	0	0	0	0
5/24/2024 22:31	45702	LIND_T2	1	3	2	0.1	0.33	0.23	-0.42	-0.47	0	0	0	0	0	0
5/24/2024 22:31	20603	GRWO_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
5/24/2024 22:31	10805	CHHI_T2	1	1	0	8.2	7.8	-0.4	-1.03	-1.05	1	1	0	600	600	0
5/24/2024 22:31	66703	STRA_T1	50	5	-45	0.24	0.4	0.16	-0.03	-0.13	0	0	0	0	0	0
5/24/2024 22:31	42901	MIDD_T2	247	470	223	0.43	0.65	0.22	0	0	0	0	0	0	0	0
5/24/2024 22:31	20403	ASHF_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
5/24/2024 22:31	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 22:31	61803	EELI_T2	0	0	0	0	0	0	0.21	0.12	1	1	0	600	600	0
5/24/2024 22:32	40701	FFLD_T1	34	18	-16	0.43	0.15	-0.28	0	0	0	0	0	0	0	0
5/24/2024 22:32	20403	ASHF_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
5/24/2024 22:32	64204	KINZ_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
5/24/2024 22:32	43402	BENT_T1	3	14	11	0.2	0.24	0.04	-0.88	-0.9	1	1	0	900	900	0
5/24/2024 22:32	64201	KINZ_T1	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/24/2024 22:32	64101	REFR_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
5/24/2024 22:32	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/24/2024 22:32	64203	KINZ_T1	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
5/24/2024 22:32	64202	KINZ_T1	1	3	2	0.1	0.43	0.33	0	0	0	0	0	0	0	0
5/24/2024 22:32	21203	ECAR_T1	0	5	5	0	0.24	0.24	0.53	0.52	0	0	0	0	0	0
5/24/2024 22:32	56801	BENV_T1	5	8	3	1	0.88	-0.12	-0.27	-0.28	1	1	0	600	600	0
5/24/2024 22:32	59101	WALK_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
5/24/2024 22:32	61304	EARL_T1	0	0	0	0	0	0	-0.76	-0.75	1	1	0	600	600	0
5/24/2024 22:32	59102	WALK_T2	6	0	-6	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/24/2024 22:32	40702	FFLD_T1	53	52	-1	0.21	0.16	-0.05	0	0	0	0	0	0	0	0
5/24/2024 22:32	67402	WAKE_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
5/24/2024 22:32	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/24/2024 22:32	40703	FFLD_T1	4	1	-3	0.3	0.2	-0.1	0.36	0.31	0	0	0	0	0	0
5/24/2024 22:32	47101	MARL_T1	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
5/24/2024 22:33	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/24/2024 22:33	52402	GRPA_T2	4	4	0	0.58	0.53	-0.05	0	0	0	0	0	0	0	0
5/24/2024 22:33	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.23	-1.25	0	0	0	0	0	0
5/24/2024 22:33	40101	HUNT_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
5/24/2024 22:33	52403	GRPA_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
5/24/2024 22:33	64101	REFR_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
5/24/2024 22:33	59101	WALK_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
5/24/2024 22:33	40902	JESH_T1	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
5/24/2024 22:33	10801	CHHI_T1	0	0	0	0	0	0	-1.78	-1.83	3	3	0	2100	2100	0
5/24/2024 22:33	61304	EARL_T1	0	0	0	0	0	0	-0.76	-0.75	1	1	0	600	600	0
5/24/2024 22:33	47101	MARL_T1	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
5/24/2024 22:33	59102	WALK_T2	6	0	-6	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/24/2024 22:33	67201	TEHI_T1	0	0	0	0	0	0	-0.57	-0.61	1	1	0	900	900	0
5/24/2024 22:33	45702	LIND_T2	1	3	2	0.1	0.33	0.23	-0.42	-0.47	0	0	0	0	0	0
5/24/2024 22:33	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/24/2024 22:33	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 22:34	42201	SHEN_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
5/24/2024 22:34	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 22:34	56801	BENV_T1	5	8	3	1	0.88	-0.12	-0.54	-0.56	2	2	0	1200	1200	0
5/24/2024 22:34	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 22:34	65802	RTWN_T2	0	0	0	0	0	0	0.16	0.19	0	0	0	0	0	0
5/24/2024 22:34	23001	SAJO_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
5/24/2024 22:34	43102	SMIL_T2	6	5	-1	0.37	0.34	-0.03	-0.73	-0.75	1	1	0	600	600	0
5/24/2024 22:35	64101	REFR_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
5/24/2024 22:35	53902	HALI_T2	1	1	0	5.2	5.6	0.4	-0.77	-0.77	0	0	0	0	0	0
5/24/2024 22:35	45902	AUBU_T1	9	10	1	0.18	0.21	0.03	-1.05	-1.06	1	1	0	600	600	0
5/24/2024 22:35	45402	WBLO_T2	1	2	1	1.5	0.65	-0.85	-0.66	-0.66	0	0	0	0	0	0
5/24/2024 22:35	43304	WATS_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
5/24/2024 22:35	43301	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/24/2024 22:35	40902	JESH_T1	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
5/24/2024 22:35	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/24/2024 22:35	52402	GRPA_T2	4	4	0	0.58	0.53	-0.05	-0.72	-0.73	0	0	0	0	0	0
5/24/2024 22:35	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 22:35	26603	BROO_T1	1	1	0	0.4	0	-0.4	0.54	0.55	0	0	0	0	0	0
5/24/2024 22:35	60101	COCA_T1	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
5/24/2024 22:35	43302	WATS_T2	1	4	3	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/24/2024 22:35	14802	TREI_T2	0	0	0	0	0	0	0.44	0.48	0	0	0	0	0	0
5/24/2024 22:35	43802	SWIL_T1	0	0	0	0	0	0	0.05	-0.04	1	1	0	600	600	0
5/24/2024 22:35	52403	GRPA_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
5/24/2024 22:35	40702	FFLD_T1	53	52	-1	0.21	0.16	-0.05	-0.75	-0.8	1	1	0	1200	1200	0
5/24/2024 22:35	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/24/2024 22:35	46004	BERW_T2	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
5/24/2024 22:35	40701	FFLD_T1	34	18	-16	0.43	0.15	-0.28	0	0	0	0	0	0	0	0
5/24/2024 22:35	41902	REED_T1	0	1	1	0	0	0	0.91	0.91	0	0	0	0	0	0
5/24/2024 22:35	40703	FFLD_T1	4	1	-3	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/24/2024 22:35	53903	HALI_T2	2	2	0	1	1.25	0.25	0	0	0	0	0	0	0	0
5/24/2024 22:35	41901	REED_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/24/2024 22:35	26601	BROO_T1	0	0	0	0	0	0	-0.2	-0.23	1	1	0	600	600	0
5/24/2024 22:35	43801	SWIL_T1	17	2	-15	0.58	3.3	2.72	0	0	0	0	0	0	0	0
5/24/2024 22:36	42902	MIDD_T2	105	232	127	0.56	0.66	0.1	-1.2	-1.16	0	0	0	0	0	0
5/24/2024 22:36	53903	HALI_T2	2	2	0	1	1.25	0.25	-0.18	-0.16	0	0	0	0	0	0
5/24/2024 22:36	45402	WBLO_T2	1	2	1	1.5	0.65	-0.85	-0.66	-0.66	0	0	0	0	0	0
5/24/2024 22:36	42903	MIDD_T2	25	117	92	0.36	0.57	0.21	0	0	0	0	0	0	0	0
5/24/2024 22:36	40101	HUNT_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
5/24/2024 22:36	42901	MIDD_T2	247	470	223	0.43	0.65	0.22	0	0	0	0	0	0	0	0
5/24/2024 22:36	56801	BENV_T1	5	8	3	1	0.88	-0.12	-0.27	-0.28	1	1	0	600	600	0
5/24/2024 22:36	16102	BING_T2	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
5/24/2024 22:36	53902	HALI_T2	1	1	0	5.2	5.6	0.4	0	0	0	0	0	0	0	0
5/24/2024 22:36	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.23	-1.25	0	0	0	0	0	0
5/24/2024 22:36	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 22:37	41902	REED_T1	0	1	1	0	0	0	0.91	0.91	0	0	0	0	0	0
5/24/2024 22:37	59102	WALK_T2	6	0	-6	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/24/2024 22:37	56802	BENV_T2	29	19	-10	0.16	0.15	-0.01	-1.28	-1.3	0	0	0	0	0	0
5/24/2024 22:37	46001	BERW_T1	0	0	0	0	0	0	0.75	0.69	0	0	0	0	0	0
5/24/2024 22:37	59101	WALK_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
5/24/2024 22:37	46004	BERW_T2	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
5/24/2024 22:37	41901	REED_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/24/2024 22:38	43402	BENT_T1	3	14	11	0.2	0.24	0.04	-0.88	-0.9	1	1	0	900	900	0
5/24/2024 22:40	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/24/2024 22:41	42903	MIDD_T2	25	117	92	0.36	0.57	0.21	0	0	0	0	0	0	0	0
5/24/2024 22:41	42901	MIDD_T2	247	470	223	0.43	0.65	0.22	0	0	0	0	0	0	0	0
5/24/2024 22:41	42902	MIDD_T2	105	232	127	0.56	0.66	0.1	-0.58	-0.63	0	0	0	0	0	0
5/24/2024 22:44	65901	SAKR_T2	1	1	0	7.8	8.2	0.4	-0.96	-1.09	1	1	0	900	900	0
5/24/2024 23:01	53903	HALI_T2	2	2	0	1.25	1.6	0.35	0	0	0	0	0	0	0	0
5/24/2024 23:01	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/24/2024 23:01	53901	HALI_T2	0	1	1	0	0.3	0.3	-0.78	-0.83	0	0	0	0	0	0
5/25/2024 0:17	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
5/25/2024 0:18	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
5/25/2024 0:24	64203	KINZ_T1	0	0	0	0	0	0	0.29	0.22	0	0	0	0	0	0
5/25/2024 0:24	64204	KINZ_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
5/25/2024 0:24	64201	KINZ_T1	1	3	2	1	0.5	-0.5	0	0	0	0	0	0	0	0
5/25/2024 0:24	64202	KINZ_T1	3	3	0	0.97	0.53	-0.44	0	0	0	0	0	0	0	0
5/25/2024 0:25	64204	KINZ_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
5/25/2024 0:25	64203	KINZ_T1	0	0	0	0	0	0	0.29	0.22	0	0	0	0	0	0
5/25/2024 0:25	64201	KINZ_T1	1	3	2	1	0.5	-0.5	0	0	0	0	0	0	0	0
5/25/2024 0:25	64202	KINZ_T1	3	3	0	0.97	0.53	-0.44	0	0	0	0	0	0	0	0
5/25/2024 0:40	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
5/25/2024 0:41	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
5/25/2024 1:04	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
5/25/2024 1:05	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
5/25/2024 1:24	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	900	900	0
5/25/2024 1:25	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	900	900	0
5/25/2024 2:19	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 2:19	29402	BELT_T1	1	1	0	7.7	7.8	0.1	0	0	0	0	0	0	0	0
5/25/2024 2:28	64204	KINZ_T1	3	20	17	0.43	0.24	-0.19	0	0	0	0	0	0	0	0
5/25/2024 2:28	64201	KINZ_T1	9	11	2	0.34	0.46	0.12	0	0	0	0	0	0	0	0
5/25/2024 2:28	64203	KINZ_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
5/25/2024 2:28	64202	KINZ_T1	7	12	5	0.56	0.43	-0.13	0	0	0	0	0	0	0	0
5/25/2024 2:29	64204	KINZ_T1	3	20	17	0.43	0.24	-0.19	0	0	0	0	0	0	0	0
5/25/2024 2:29	64203	KINZ_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
5/25/2024 2:29	64201	KINZ_T1	9	11	2	0.34	0.46	0.12	0	0	0	0	0	0	0	0
5/25/2024 2:29	64202	KINZ_T1	7	12	5	0.56	0.43	-0.13	0	0	0	0	0	0	0	0
5/25/2024 4:09	64201	KINZ_T1	9	18	9	0.67	0.49	-0.18	0	0	0	0	0	0	0	0
5/25/2024 4:09	64202	KINZ_T1	33	42	9	0.31	0.35	0.04	0	0	0	0	0	0	0	0
5/25/2024 4:09	64204	KINZ_T1	31	35	4	0.31	0.39	0.08	0	0	0	0	0	0	0	0
5/25/2024 4:09	64203	KINZ_T1	29	46	17	0.12	0.15	0.03	0.23	0.26	0	0	0	0	0	0
5/25/2024 4:10	64202	KINZ_T1	33	42	9	0.31	0.35	0.04	0	0	0	0	0	0	0	0
5/25/2024 4:10	64204	KINZ_T1	31	35	4	0.31	0.39	0.08	0	0	0	0	0	0	0	0
5/25/2024 4:10	64203	KINZ_T1	29	46	17	0.12	0.15	0.03	0.23	0.26	0	0	0	0	0	0
5/25/2024 4:10	64201	KINZ_T1	9	18	9	0.67	0.49	-0.18	0	0	0	0	0	0	0	0
5/25/2024 5:13	28403	HART_T2	0	0	0	0	0	0	-1.07	-1.08	1	1	0	900	900	0
5/25/2024 6:33	16301	ALPA_T1	1	1	0	0.3	0.2	-0.1	-0.53	-0.5	0	0	0	0	0	0
5/25/2024 6:34	29402	BELT_T1	1	1	0	7.8	7.8	0	0	0	0	0	0	0	0	0
5/25/2024 6:34	67503	WEWI_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
5/25/2024 6:34	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/25/2024 6:34	20403	ASHF_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
5/25/2024 6:42	14204	EALL_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
5/25/2024 6:56	15203	SFAR_T2	66	0	-66	0.13	0	-0.13	-1.31	-1.24	0	0	0	0	0	0
5/25/2024 6:59	15203	SFAR_T2	66	0	-66	0.13	0	-0.13	-1.31	-1.24	0	0	0	0	0	0
5/25/2024 7:01	20401	ASHF_T2	0	0	0	0	0	0	-0.47	-0.42	0	0	0	0	0	0
5/25/2024 7:01	24201	PROV_T3	1	1	0	6.9	6.9	0	-0.11	-0.04	0	0	0	0	0	0
5/25/2024 7:01	24204	PROV_T3	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
5/25/2024 7:03	61102	BERK_T5	0	0	0	0	0	0	1.1	1.05	1	1	0	300	300	0
5/25/2024 7:04	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
5/25/2024 7:04	67703	WERN_T2	0	0	0	0	0	0	-1.01	-1.01	1	1	0	900	900	0
5/25/2024 7:04	29402	BELT_T1	1	1	0	7.7	7.5	-0.2	0	0	0	0	0	0	0	0
5/25/2024 7:05	61102	BERK_T5	0	0	0	0	0	0	1.1	1.05	1	1	0	300	300	0
5/25/2024 7:09	46203	DANV_T2	0	0	0	0	0	0	-2.76	-2.7	0	0	0	0	0	0
5/25/2024 7:09	46206	DANV_T2	13	13	0	2.85	2.93	0.08	0	0	0	0	0	0	0	0
5/25/2024 7:10	46203	DANV_T2	0	0	0	0	0	0	-1.84	-1.8	0	0	0	0	0	0
5/25/2024 7:10	46206	DANV_T2	13	13	0	2.85	2.93	0.08	0	0	0	0	0	0	0	0
5/25/2024 7:12	46803	HEPB_T2	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
5/25/2024 7:12	46801	HEPB_T2	2	2	0	0.8	0.75	-0.05	0.49	0.56	0	0	0	0	0	0
5/25/2024 7:12	63804	HEMP_T1	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
5/25/2024 7:12	63801	HEMP_T1	0	0	0	0	0	0	-1.21	-1.18	1	1	0	900	900	0
5/25/2024 7:13	46801	HEPB_T2	2	2	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
5/25/2024 7:13	46803	HEPB_T2	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
5/25/2024 7:28	59101	WALK_T2	3	2	-1	0.1	0.1	0	-0.69	-0.56	0	0	0	0	0	0
5/25/2024 7:33	45902	AUBU_T1	0	0	0	0	0	0	-0.5	-0.47	0	0	0	0	0	0
5/25/2024 7:33	45901	AUBU_T1	0	0	0	0	0	0	1.01	1.01	0	0	0	0	0	0
5/25/2024 7:34	29402	BELT_T1	1	1	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
5/25/2024 7:34	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 7:36	45902	AUBU_T1	0	0	0	0	0	0	-0.5	-0.47	0	0	0	0	0	0
5/25/2024 7:50	46801	HEPB_T2	2	2	0	0.6	0.7	0.1	0.53	0.54	0	0	0	0	0	0
5/25/2024 7:52	47402	PENS_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/25/2024 7:52	47401	PENS_T1	1	2	1	0.1	0.55	0.45	0.84	0.88	0	0	0	0	0	0
5/25/2024 8:08	45902	AUBU_T1	0	1	1	0	0.6	0.6	-0.4	-0.43	0	0	0	0	0	0
5/25/2024 8:11	29402	BELT_T1	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
5/25/2024 8:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 8:13	20403	ASHF_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
5/25/2024 8:13	29402	BELT_T1	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
5/25/2024 8:13	26603	BROO_T1	1	2	1	0.9	0.5	-0.4	0.51	0.54	0	0	0	0	0	0
5/25/2024 8:16	26603	BROO_T1	1	2	1	0.5	1	0.5	0.51	0.54	0	0	0	0	0	0
5/25/2024 8:17	41502	FAIR_T2	0	0	0	0	0	0	-1.65	-1.64	1	1	0	900	900	0
5/25/2024 8:34	41902	REED_T1	2	2	0	0.65	0.95	0.3	0.99	0.98	0	0	0	0	0	0
5/25/2024 8:39	41902	REED_T1	2	2	0	0.65	0.95	0.3	0.98	0.93	0	0	0	0	0	0
5/25/2024 8:44	29402	BELT_T1	1	1	0	6.8	7.5	0.7	0	0	0	0	0	0	0	0
5/25/2024 8:49	29402	BELT_T1	1	1	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
5/25/2024 9:08	64101	REFR_T1	0	0	0	0	0	0	0.2	0.24	0	0	0	0	0	0
5/25/2024 9:09	64101	REFR_T1	0	0	0	0	0	0	0.3	0.36	0	0	0	0	0	0
5/25/2024 9:10	64101	REFR_T1	0	0	0	0	0	0	0.2	0.24	0	0	0	0	0	0
5/25/2024 9:14	66504	SMAN_T2	0	0	0	0	0	0	-1.52	-1.44	1	1	0	1200	1200	0
5/25/2024 9:14	45902	AUBU_T1	1	3	2	1	0.83	-0.17	-0.37	-0.32	0	0	0	0	0	0
5/25/2024 9:15	66502	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/25/2024 9:15	66504	SMAN_T2	0	0	0	0	0	0	-3.05	-2.89	2	2	0	2400	2400	0
5/25/2024 9:16	29402	BELT_T1	1	2	1	7.3	3.95	-3.35	0	0	0	0	0	0	0	0
5/25/2024 9:16	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
5/25/2024 9:17	45902	AUBU_T1	3	3	0	0.57	1	0.43	-0.37	-0.32	0	0	0	0	0	0
5/25/2024 9:18	45902	AUBU_T1	3	3	0	0.57	1	0.43	-0.75	-0.64	0	0	0	0	0	0
5/25/2024 9:20	29402	BELT_T1	1	2	1	7.3	3.95	-3.35	0	0	0	0	0	0	0	0
5/25/2024 9:24	21203	ECAR_T1	0	0	0	0	0	0	0.56	0.61	0	0	0	0	0	0
5/25/2024 9:30	40101	HUNT_T2	0	0	0	0	0	0	-0.65	-0.6	0	0	0	0	0	0
5/25/2024 9:31	40101	HUNT_T2	0	0	0	0	0	0	-0.65	-0.6	0	0	0	0	0	0
5/25/2024 9:41	58401	MORO_T1	0	0	0	0	0	0	-0.95	-0.96	1	1	0	600	600	0
5/25/2024 9:42	58401	MORO_T1	0	0	0	0	0	0	-1.9	-1.92	2	2	0	1200	1200	0
5/25/2024 9:42	43201	MVIL_T2	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
5/25/2024 9:55	58006	WCAR_T2	0	0	0	0	0	0	-0.79	-0.79	0	0	0	0	0	0
5/25/2024 9:55	58002	WCAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/25/2024 9:56	58006	WCAR_T2	0	0	0	0	0	0	-0.79	-0.79	0	0	0	0	0	0
5/25/2024 9:56	58002	WCAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/25/2024 10:00	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-0.93	-0.91	0	0	0	0	0	0
5/25/2024 10:00	13503	MCMI_T2	4	92	88	0.48	0.25	-0.23	-0.92	-0.89	0	0	0	0	0	0
5/25/2024 10:00	40502	CRES_T2	0	1	1	0	0.1	0.1	0.02	0.02	0	0	0	0	0	0
5/25/2024 10:00	40505	CRES_T1	3	3	0	3.07	3.33	0.26	0.47	0.45	0	0	0	0	0	0
5/25/2024 10:00	67502	WEWI_T2	0	0	0	0	0	0	-1.22	-1.2	1	1	0	900	900	0
5/25/2024 10:00	48602	POCA_T1	0	0	0	0	0	0	0.42	0.44	1	1	0	1200	1200	0
5/25/2024 10:00	52503	PROG_T2	0	0	0	0	0	0	-0.36	-0.49	1	1	0	900	900	0
5/25/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	-0.63	-0.57	0	0	0	0	0	0
5/25/2024 10:00	10801	CHHI_T1	5	3	-2	0.38	0.3	-0.08	-2.3	-2.22	4	4	0	3000	3000	0
5/25/2024 10:07	63801	HEMP_T1	0	0	0	0	0	0	-0.86	-0.81	1	1	0	900	900	0
5/25/2024 10:07	63804	HEMP_T1	1	1	0	5.5	5.8	0.3	0	0	0	0	0	0	0	0
5/25/2024 10:10	64203	KINZ_T1	0	0	0	0	0	0	0.56	0.62	0	1	1	0	600	600
5/25/2024 10:10	64204	KINZ_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
5/25/2024 10:14	42903	MIDD_T2	248	251	3	0.8	0.76	-0.04	0	0	0	0	0	0	0	0
5/25/2024 10:14	42902	MIDD_T2	298	292	-6	0.81	0.8	-0.01	-1.71	-1.96	0	0	0	0	0	0
5/25/2024 10:14	42901	MIDD_T2	648	625	-23	0.73	0.66	-0.07	0	0	0	0	0	0	0	0
5/25/2024 10:15	42903	MIDD_T2	246	235	-11	0.73	0.77	0.04	0	0	0	0	0	0	0	0
5/25/2024 10:15	42901	MIDD_T2	592	569	-23	0.65	0.67	0.02	0	0	0	0	0	0	0	0
5/25/2024 10:15	42902	MIDD_T2	280	277	-3	0.79	0.8	0.01	-1.29	-1.47	0	0	0	0	0	0
5/25/2024 10:16	42901	MIDD_T2	592	569	-23	0.65	0.67	0.02	0	0	0	0	0	0	0	0
5/25/2024 10:16	42903	MIDD_T2	246	235	-11	0.73	0.77	0.04	0.09	0.07	0	0	0	0	0	0
5/25/2024 10:16	42902	MIDD_T2	280	277	-3	0.79	0.8	0.01	-0.43	-0.49	0	0	0	0	0	0
5/25/2024 10:17	42903	MIDD_T2	246	235	-11	0.73	0.77	0.04	0	0	0	0	0	0	0	0
5/25/2024 10:17	42901	MIDD_T2	592	569	-23	0.65	0.67	0.02	0	0	0	0	0	0	0	0
5/25/2024 10:17	42902	MIDD_T2	280	277	-3	0.79	0.8	0.01	-0.43	-0.49	0	0	0	0	0	0
5/25/2024 10:19	43201	MVIL_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
5/25/2024 10:19	65205	PRIN_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
5/25/2024 10:19	13503	MCMI_T2	91	41	-50	0.25	0.24	-0.01	-0.89	-0.88	0	0	0	0	0	0
5/25/2024 10:20	58401	MORO_T1	0	0	0	0	0	0	-0.9	-0.88	1	1	0	600	600	0
5/25/2024 10:20	13503	MCMI_T2	91	41	-50	0.25	0.24	-0.01	-0.89	-0.88	0	0	0	0	0	0
5/25/2024 10:26	58401	MORO_T1	0	0	0	0	0	0	-0.88	-0.84	1	2	1	600	1200	600
5/25/2024 10:27	58006	WCAR_T2	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
5/25/2024 10:28	16301	ALPA_T1	1	2	1	0.2	0.25	0.05	-0.02	-0.02	0	0	0	0	0	0
5/25/2024 10:30	29402	BELT_T1	7	2	-5	1.51	4.8	3.29	0	0	0	0	0	0	0	0
5/25/2024 10:30	61102	BERK_T5	0	0	0	0	0	0	-0.26	-0.28	2	2	0	1200	1200	0
5/25/2024 10:30	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 10:31	61102	BERK_T5	0	0	0	0	0	0	-0.52	-0.56	4	4	0	2400	2400	0
5/25/2024 10:31	45901	AUBU_T1	0	0	0	0	0	0	1	1.02	0	0	0	0	0	0
5/25/2024 10:31	45902	AUBU_T1	0	4	4	0	1.33	1.33	0	0	0	0	0	0	0	0
5/25/2024 10:31	67703	WERN_T2	0	1	1	0	0.1	0.1	-0.63	-0.6	1	1	0	900	900	0
5/25/2024 10:31	26603	BROO_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
5/25/2024 10:31	15702	TANN_T2	1	1	0	1.3	1.5	0.2	-0.58	-0.6	0	0	0	0	0	0
5/25/2024 10:31	15703	TANN_T2	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
5/25/2024 10:32	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/25/2024 10:32	15703	TANN_T2	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
5/25/2024 10:32	15702	TANN_T2	1	1	0	1.3	1.5	0.2	-0.29	-0.3	0	0	0	0	0	0
5/25/2024 10:32	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 10:32	29402	BELT_T1	7	2	-5	1.51	4.8	3.29	0	0	0	0	0	0	0	0
5/25/2024 10:32	61102	BERK_T5	0	0	0	0	0	0	-0.52	-0.56	4	4	0	2400	2400	0
5/25/2024 10:33	46203	DANV_T2	0	3	3	0	0.3	0.3	-1.88	-1.9	0	0	0	0	0	0
5/25/2024 10:33	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 10:33	21206	ECAR_T2	1	2	1	7.3	7	-0.3	0.03	0.01	0	0	0	0	0	0
5/25/2024 10:33	67703	WERN_T2	0	1	1	0	0.1	0.1	-1.26	-1.2	2	2	0	1800	1800	0
5/25/2024 10:33	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/25/2024 10:33	46206	DANV_T2	13	13	0	3.15	3.02	-0.13	0	0	0	0	0	0	0	0
5/25/2024 10:33	61102	BERK_T5	0	0	0	0	0	0	-0.52	-0.56	4	4	0	2400	2400	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/25/2024 10:34	46206	DANV_T2	13	13	0	3.15	3.02	-0.13	0	0	0	0	0	0	0	0
5/25/2024 10:34	61102	BERK_T5	0	0	0	0	0	0	-0.26	-0.28	2	2	0	1200	1200	0
5/25/2024 10:34	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 10:34	20401	ASHF_T2	1	2	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/25/2024 10:34	20403	ASHF_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
5/25/2024 10:34	21206	ECAR_T2	1	2	1	7.3	7	-0.3	0.03	0.01	0	0	0	0	0	0
5/25/2024 10:34	67702	WERN_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
5/25/2024 10:34	46203	DANV_T2	0	3	3	0	0.3	0.3	-3.76	-3.8	0	0	0	0	0	0
5/25/2024 10:34	20402	ASHF_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
5/25/2024 10:34	10102	ALLE_T2	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
5/25/2024 10:34	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 10:34	67703	WERN_T2	0	1	1	0	0.1	0.1	-0.63	-0.6	1	1	0	900	900	0
5/25/2024 10:34	29402	BELT_T1	7	2	-5	1.51	4.8	3.29	0	0	0	0	0	0	0	0
5/25/2024 10:35	63302	GREE_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
5/25/2024 10:35	67703	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/25/2024 10:35	29402	BELT_T1	7	2	-5	1.51	4.8	3.29	0	0	0	0	0	0	0	0
5/25/2024 10:35	26603	BROO_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
5/25/2024 10:35	46203	DANV_T2	0	3	3	0	0.3	0.3	-3.76	-3.8	0	0	0	0	0	0
5/25/2024 10:35	46206	DANV_T2	13	13	0	3.15	3.02	-0.13	0	0	0	0	0	0	0	0
5/25/2024 10:35	67702	WERN_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
5/25/2024 10:35	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 10:36	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 10:36	10102	ALLE_T2	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
5/25/2024 10:37	46801	HEPB_T2	0	0	0	0	0	0	0.74	0.74	0	0	0	0	0	0
5/25/2024 10:37	46803	HEPB_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
5/25/2024 10:38	29402	BELT_T1	7	2	-5	1.51	4.8	3.29	0	0	0	0	0	0	0	0
5/25/2024 10:38	44502	HAMI_T2	1	1	0	1.6	2	0.4	-0.68	-0.66	0	0	0	0	0	0
5/25/2024 10:38	46801	HEPB_T2	0	0	0	0	0	0	0.74	0.74	0	0	0	0	0	0
5/25/2024 10:38	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 10:38	44505	HAMI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/25/2024 10:38	46803	HEPB_T2	1	1	0	0.6	0.1	-0.5	0.53	0.57	0	0	0	0	0	0
5/25/2024 10:39	40101	HUNT_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
5/25/2024 10:39	46801	HEPB_T2	0	0	0	0	0	0	1.49	1.6	0	0	0	0	0	0
5/25/2024 10:39	46803	HEPB_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
5/25/2024 10:43	40101	HUNT_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
5/25/2024 10:44	25502	MADI_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/25/2024 10:44	25503	MADI_T1	22	9	-13	0.16	0.17	0.01	-0.8	-0.77	0	0	0	0	0	0
5/25/2024 10:44	25501	MADI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/25/2024 10:46	52402	GRPA_T2	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
5/25/2024 10:46	52403	GRPA_T2	2	12	10	0.8	0.58	-0.22	-0.38	-0.31	0	0	0	0	0	0
5/25/2024 10:47	52403	GRPA_T2	2	12	10	0.8	0.58	-0.22	-0.38	-0.31	0	0	0	0	0	0
5/25/2024 10:47	52402	GRPA_T2	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
5/25/2024 10:55	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 10:55	66502	SMAN_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
5/25/2024 10:57	66703	STRA_T1	0	0	0	0	0	0	0.29	0.38	0	0	0	0	0	0
5/25/2024 10:58	66502	SMAN_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
5/25/2024 10:58	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 11:03	45902	AUBU_T1	4	6	2	1.33	1	-0.33	-1.62	-1.74	2	2	0	1200	1200	0
5/25/2024 11:04	45902	AUBU_T1	4	6	2	1.33	1	-0.33	-0.81	-0.87	1	1	0	600	600	0
5/25/2024 11:05	45902	AUBU_T1	4	6	2	1.33	1	-0.33	-0.81	-0.87	1	1	0	600	600	0
5/25/2024 11:05	45901	AUBU_T1	0	0	0	0	0	0	1.05	1.07	0	0	0	0	0	0
5/25/2024 11:06	45902	AUBU_T1	4	6	2	1.33	1	-0.33	-0.81	-0.87	1	1	0	600	600	0
5/25/2024 11:08	45902	AUBU_T1	4	6	2	1.33	1	-0.33	-0.87	-0.89	1	1	0	600	600	0
5/25/2024 11:09	40201	BEGA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/25/2024 11:09	45501	DERR_T2	3	3	0	1.83	1.03	-0.8	-0.38	-0.34	2	2	0	1800	1800	0
5/25/2024 11:10	24201	PROV_T3	1	1	0	7.2	7.1	-0.1	-1.13	-1.07	1	1	0	1200	1200	0
5/25/2024 11:10	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 11:10	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 11:10	24204	PROV_T3	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
5/25/2024 11:11	29402	BELT_T1	1	6	5	8.8	1.87	-6.93	0	0	0	0	0	0	0	0
5/25/2024 11:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 11:12	29402	BELT_T1	1	6	5	8.8	1.87	-6.93	0	0	0	0	0	0	0	0
5/25/2024 11:12	45501	DERR_T2	3	3	0	1.83	1.03	-0.8	-0.38	-0.34	2	2	0	1800	1800	0
5/25/2024 11:12	29401	BELT_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
5/25/2024 11:13	64203	KINZ_T1	0	0	0	0	0	0	0.05	-0.02	1	1	0	600	600	0
5/25/2024 11:13	64204	KINZ_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
5/25/2024 11:14	64204	KINZ_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
5/25/2024 11:14	64203	KINZ_T1	0	0	0	0	0	0	0.05	-0.02	1	1	0	600	600	0
5/25/2024 11:14	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 11:16	17804	GILB_T2	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
5/25/2024 11:16	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.15	-0.06	1	1	0	900	900	0
5/25/2024 11:24	46501	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/25/2024 11:24	46506	LOHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/25/2024 11:24	46505	LOHA_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
5/25/2024 11:25	64101	REFR_T1	0	3	3	0	0	0	0.56	0.6	0	0	0	0	0	0
5/25/2024 11:25	55001	NEWP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 11:25	55002	NEWP_T1	1	1	0	1.8	1.9	0.1	-0.08	-0.08	0	0	0	0	0	0
5/25/2024 11:26	55002	NEWP_T1	1	1	0	1.8	1.9	0.1	-0.16	-0.16	0	0	0	0	0	0
5/25/2024 11:26	55001	NEWP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 11:26	64101	REFR_T1	0	3	3	0	0	0	1.41	1.5	0	0	0	0	0	0
5/25/2024 11:27	64101	REFR_T1	0	3	3	0	0	0	0.28	0.3	0	0	0	0	0	0
5/25/2024 11:29	64101	REFR_T1	0	3	3	0	0	0	0.28	0.3	0	0	0	0	0	0
5/25/2024 11:30	64101	REFR_T1	0	3	3	0	0.23	0.23	0.28	0.3	0	0	0	0	0	0
5/25/2024 11:34	64203	KINZ_T1	0	1	1	0	0.2	0.2	-0.02	0.04	1	1	0	600	600	0
5/25/2024 11:34	64204	KINZ_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/25/2024 11:35	64203	KINZ_T1	0	1	1	0	0.2	0.2	-0.02	0.04	1	1	0	600	600	0
5/25/2024 11:35	64204	KINZ_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/25/2024 11:35	59101	WALK_T2	0	0	0	0	0	0	-0.24	-0.1	0	0	0	0	0	0
5/25/2024 11:37	59101	WALK_T2	0	0	0	0	0	0	-0.48	-0.2	0	0	0	0	0	0
5/25/2024 11:37	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	-1.26	-1.18	1	1	0	1200	1200	0
5/25/2024 11:37	66505	SMAN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/25/2024 11:40	58006	WCAR_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
5/25/2024 11:40	58002	WCAR_T2	2	2	0	0.35	0	-0.35	0	0	0	0	0	0	0	0
5/25/2024 11:43	55001	NEWP_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 11:43	55002	NEWP_T1	1	1	0	1.9	2.1	0.2	-0.08	-0.09	0	0	0	0	0	0
5/25/2024 11:44	45902	AUBU_T1	5	5	0	1.16	1.22	0.06	-0.83	-0.73	1	1	0	600	600	0
5/25/2024 11:49	10801	CHHI_T1	3	2	-1	0.5	0.3	-0.2	-1.54	-1.59	3	3	0	2100	2100	0
5/25/2024 11:50	61304	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/25/2024 11:50	61302	EARL_T1	0	0	0	0	0	0	0.44	0.6	2	2	0	1800	1800	0
5/25/2024 11:51	61301	EARL_T1	0	0	0	0	0	0	-1.32	-1.33	2	2	0	1800	1800	0
5/25/2024 11:51	61304	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/25/2024 11:53	61803	EELI_T2	1	0	-1	0.2	0	-0.2	0.54	0.58	1	1	0	600	600	0
5/25/2024 11:54	22901	HARW_T1	17	24	7	0.52	0.3	-0.22	-1.08	-0.93	2	2	0	2400	2400	0
5/25/2024 11:54	22903	HARW_T1	0	22	22	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 11:54	22905	HARW_T1	3	9	6	0.37	0	-0.37	0	0	0	0	0	0	0	0
5/25/2024 11:55	64204	KINZ_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/25/2024 11:55	64203	KINZ_T1	1	1	0	0.4	0	-0.4	0.07	0.01	1	1	0	600	600	0
5/25/2024 11:56	64204	KINZ_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/25/2024 11:56	64203	KINZ_T1	1	1	0	0.4	0	-0.4	0.07	0.01	1	1	0	600	600	0
5/25/2024 11:57	67702	WERN_T2	0	0	0	0	0	0	0.1	0.18	0	0	0	0	0	0
5/25/2024 12:01	52401	GRPA_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
5/25/2024 12:01	52403	GRPA_T2	14	15	1	1.18	1.31	0.13	0	0	0	0	0	0	0	0
5/25/2024 12:01	52402	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 12:03	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/25/2024 12:03	12502	MITR_T2	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
5/25/2024 12:03	12505	MITR_T2	0	0	0	0	0	0	0.7	0.75	0	0	0	0	0	0
5/25/2024 12:05	58402	MORO_T1	0	0	0	0	0	0	-0.23	-0.2	2	2	0	1500	1500	0
5/25/2024 12:06	65901	SAKR_T2	1	1	0	7.3	7.1	-0.2	-1.18	-1.07	2	2	0	1500	1500	0
5/25/2024 12:08	64101	REFR_T1	3	7	4	0.23	0.98	0.75	0.35	0.35	0	0	0	0	0	0
5/25/2024 12:11	60101	COCA_T1	0	1	1	0	0.7	0.7	1.34	1.5	0	0	0	0	0	0
5/25/2024 12:12	48302	ORWI_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/25/2024 12:12	67702	WERN_T2	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
5/25/2024 12:13	44301	BEAV_T2	7	7	0	0.26	0.27	0.01	-0.08	-0.02	0	0	0	0	0	0
5/25/2024 12:13	45901	AUBU_T1	0	0	0	0	0	0	1.05	1.04	0	0	0	0	0	0
5/25/2024 12:13	44302	BEAV_T2	159	165	6	0.39	0.37	-0.02	0.62	0.56	0	0	0	0	0	0
5/25/2024 12:13	45902	AUBU_T1	4	4	0	1.25	1.55	0.3	0	0	0	0	0	0	0	0
5/25/2024 12:14	44302	BEAV_T2	159	165	6	0.39	0.37	-0.02	1.24	1.12	0	0	0	0	0	0
5/25/2024 12:14	42701	AUGU_T1	78	86	8	1	1.19	0.19	0	0	0	0	0	0	0	0
5/25/2024 12:14	44301	BEAV_T2	7	7	0	0.26	0.27	0.01	-0.08	-0.02	0	0	0	0	0	0
5/25/2024 12:14	45902	AUBU_T1	4	4	0	1.25	1.55	0.3	-0.81	-0.84	1	1	0	600	600	0
5/25/2024 12:14	26601	BROO_T1	0	0	0	0	0	0	0	-0.11	1	1	0	600	600	0
5/25/2024 12:15	45501	DERR_T2	1	1	0	0.3	0.3	0	-0.33	-0.36	2	2	0	1800	1800	0
5/25/2024 12:15	42701	AUGU_T1	83	85	2	1.19	1.06	-0.13	0	0	0	0	0	0	0	0
5/25/2024 12:15	45902	AUBU_T1	4	4	0	1.53	1.3	-0.23	-0.81	-0.84	1	1	0	600	600	0
5/25/2024 12:15	44301	BEAV_T2	7	4	-3	0.2	0.4	0.2	-0.16	-0.05	0	0	0	0	0	0
5/25/2024 12:15	44302	BEAV_T2	155	137	-18	0.34	0.38	0.04	0.62	0.56	0	0	0	0	0	0
5/25/2024 12:17	44301	BEAV_T2	7	4	-3	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/25/2024 12:17	44302	BEAV_T2	155	137	-18	0.34	0.38	0.04	0.62	0.56	0	0	0	0	0	0
5/25/2024 12:21	17802	GILB_T1	2	2	0	0.6	0.45	-0.15	0.16	0.21	0	0	0	0	0	0
5/25/2024 12:35	23102	MOSC_T2	0	0	0	0	0	0	-0.3	-0.34	1	1	0	900	900	0
5/25/2024 12:35	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/25/2024 12:35	65604	QVIL_T2	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
5/25/2024 12:36	65603	QVIL_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
5/25/2024 12:36	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/25/2024 12:37	58402	MORO_T1	0	1	1	0	0	0	-1.14	-1.14	3	3	0	2400	2400	0
5/25/2024 12:38	58003	WCAR_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/25/2024 12:38	58001	WCAR_T1	1	1	0	0.5	0.2	-0.3	0.11	0.09	0	0	0	0	0	0
5/25/2024 12:39	13302	ORVI_T2	0	1	1	0	0.2	0.2	2.03	2.07	0	0	0	0	0	0
5/25/2024 12:40	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/25/2024 12:40	65604	QVIL_T2	0	0	0	0	0	0	0.61	0.66	0	0	0	0	0	0
5/25/2024 12:44	66504	SMAN_T2	0	0	0	0	0	0	-1.05	-1.09	1	1	0	1200	1200	0
5/25/2024 12:45	66505	SMAN_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 12:45	66504	SMAN_T2	0	0	0	0	0	0	-2.1	-2.18	2	2	0	2400	2400	0
5/25/2024 12:45	16301	ALPA_T1	1	2	1	0.1	0.8	0.7	0.29	0.34	0	0	0	0	0	0
5/25/2024 12:46	42701	AUGU_T1	82	79	-3	1.09	0.99	-0.1	0	0	0	0	0	0	0	0
5/25/2024 12:46	67603	WARW_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
5/25/2024 12:47	42701	AUGU_T1	82	79	-3	1.09	0.99	-0.1	0	0	0	0	0	0	0	0
5/25/2024 12:47	67605	WARW_T1	0	0	0	0	0	0	-0.95	-0.91	0	0	0	0	0	0
5/25/2024 12:48	61102	BERK_T5	0	0	0	0	0	0	0	0.03	4	4	0	2400	2400	0
5/25/2024 12:48	67605	WARW_T1	0	0	0	0	0	0	-1.89	-1.83	0	0	0	0	0	0
5/25/2024 12:49	61102	BERK_T5	0	0	0	0	0	0	0	0.01	2	2	0	1200	1200	0
5/25/2024 12:51	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 12:51	61102	BERK_T5	0	0	0	0	0	0	0	0.01	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/25/2024 12:51	10204	ALLE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/25/2024 12:51	21203	ECAR_T1	1	0	-1	0.3	0	-0.3	0.6	0.59	0	0	0	0	0	0
5/25/2024 12:51	10801	CHHI_T1	3	6	3	0.67	0.87	0.2	-1.56	-1.54	3	3	0	2100	2100	0
5/25/2024 12:51	10102	ALLE_T2	1	1	0	7.8	8.1	0.3	0	0	0	0	0	0	0	0
5/25/2024 12:52	41801	GOCI_T2	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
5/25/2024 12:52	60101	COCA_T1	1	1	0	0.3	1.3	1	0.67	-0.52	0	1	1	0	1200	1200
5/25/2024 12:52	61102	BERK_T5	0	0	0	0	0	0	0	0.01	2	2	0	1200	1200	0
5/25/2024 12:53	61102	BERK_T5	0	0	0	0	0	0	0.01	0.1	2	2	0	1200	1200	0
5/25/2024 12:55	10102	ALLE_T2	1	1	0	7.8	8.1	0.3	0	0	0	0	0	0	0	0
5/25/2024 12:55	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 12:55	10204	ALLE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/25/2024 12:55	63804	HEMP_T1	1	1	0	5.5	5.6	0.1	-1.1	-1.07	0	0	0	0	0	0
5/25/2024 12:57	22901	HARW_T1	15	19	4	0.31	0.23	-0.08	-0.52	-0.57	1	1	0	1200	1200	0
5/25/2024 12:57	22903	HARW_T1	24	24	0	1.54	1.1	-0.44	0	0	0	0	0	0	0	0
5/25/2024 12:57	22905	HARW_T1	1	14	13	0.8	0.33	-0.47	0	0	0	0	0	0	0	0
5/25/2024 13:00	52402	GRPA_T2	0	2	2	0	0.9	0.9	-0.74	-0.71	0	0	0	0	0	0
5/25/2024 13:00	52403	GRPA_T2	3	4	1	1.83	2.67	0.84	0	0	0	0	0	0	0	0
5/25/2024 13:02	66703	STRA_T1	0	0	0	0	0	0	-0.64	-0.51	0	0	0	0	0	0
5/25/2024 13:02	66701	STRA_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 13:03	13503	MCMI_T2	18	27	9	0.61	0.56	-0.05	-0.79	-0.8	0	0	0	0	0	0
5/25/2024 13:03	45702	LIND_T2	3	3	0	0.57	0.57	0	-2.98	-2.92	0	0	0	0	0	0
5/25/2024 13:04	52402	GRPA_T2	0	2	2	0	0.9	0.9	-0.74	-0.71	0	0	0	0	0	0
5/25/2024 13:04	52403	GRPA_T2	3	4	1	1.83	2.67	0.84	0	0	0	0	0	0	0	0
5/25/2024 13:04	27605	PIRI_T2	0	0	0	0	0	0	0.72	0.77	0	0	0	0	0	0
5/25/2024 13:07	65604	QVIL_T2	0	0	0	0	0	0	0.66	0.7	0	0	0	0	0	0
5/25/2024 13:07	65602	QVIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/25/2024 13:08	67605	WARW_T1	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
5/25/2024 13:09	67605	WARW_T1	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
5/25/2024 13:13	55408	SHER_T2	1	1	0	1.3	1.5	0.2	-0.65	-0.64	1	1	0	1200	1200	0
5/25/2024 13:15	43103	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/25/2024 13:15	67402	WAKE_T2	0	0	0	0	0	0	0.02	0.02	1	1	0	600	600	0
5/25/2024 13:15	43108	SMIL_T2	1	0	-1	1	0	-1	-0.89	-0.84	1	1	0	1200	1200	0
5/25/2024 13:15	55408	SHER_T2	1	2	1	1.5	1.4	-0.1	-0.65	-0.64	1	1	0	1200	1200	0
5/25/2024 13:15	43101	SMIL_T2	12	8	-4	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
5/25/2024 13:16	43101	SMIL_T2	12	8	-4	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
5/25/2024 13:16	16301	ALPA_T1	2	3	1	0.5	0.37	-0.13	0.37	0.41	0	0	0	0	0	0
5/25/2024 13:16	43103	SMIL_T2	0	1	1	0	0.2	0.2	-1.85	-1.85	0	0	0	0	0	0
5/25/2024 13:16	13905	SEID_T1	0	0	0	0	0	0	-0.53	-0.49	1	1	0	1200	1200	0
5/25/2024 13:16	43108	SMIL_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
5/25/2024 13:16	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 13:17	43108	SMIL_T2	1	0	-1	1	0	-1	-0.89	-0.84	1	1	0	1200	1200	0
5/25/2024 13:17	43101	SMIL_T2	12	8	-4	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
5/25/2024 13:17	43103	SMIL_T2	0	1	1	0	0.2	0.2	-3.71	-3.71	0	0	0	0	0	0
5/25/2024 13:18	43103	SMIL_T2	0	1	1	0	0.2	0.2	-1.85	-1.85	0	0	0	0	0	0
5/25/2024 13:18	43108	SMIL_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
5/25/2024 13:18	43101	SMIL_T2	12	8	-4	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
5/25/2024 13:21	58002	WCAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 13:21	58006	WCAR_T2	0	0	0	0	0	0	-0.6	-0.54	0	0	0	0	0	0
5/25/2024 13:23	45902	AUBU_T1	3	3	0	1.57	1.63	0.06	-0.82	-0.79	1	1	0	600	600	0
5/25/2024 13:24	42701	AUGU_T1	78	82	4	1.23	1.32	0.09	0	0	0	0	0	0	0	0
5/25/2024 13:24	55105	WERT_T1	0	0	0	0	0	0	0.27	0.18	1	1	0	900	900	0
5/25/2024 13:25	20401	ASHF_T2	3	3	0	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
5/25/2024 13:25	20403	ASHF_T2	0	0	0	0	0	0	1.32	1.46	0	0	0	0	0	0
5/25/2024 13:27	61304	EARL_T1	0	0	0	0	0	0	-0.12	-0.1	1	1	0	600	600	0
5/25/2024 13:28	61304	EARL_T1	0	0	0	0	0	0	-0.24	-0.2	2	2	0	1200	1200	0
5/25/2024 13:31	61304	EARL_T1	0	0	0	0	0	0	-0.12	-0.1	1	1	0	600	600	0
5/25/2024 13:37	64701	LITI_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
5/25/2024 13:44	64801	MONE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 13:44	64802	MONE_T2	0	1	1	0	0.1	0.1	-0.29	-0.28	0	0	0	0	0	0
5/25/2024 13:47	58402	MORO_T1	0	0	0	0	0	0	-1.11	-1.09	3	3	0	2400	2400	0
5/25/2024 13:48	64101	REFR_T1	10	10	0	1.27	1.15	-0.12	0.79	0.81	0	0	0	0	0	0
5/25/2024 13:49	58402	MORO_T1	0	0	0	0	0	0	-1.11	-1.09	3	3	0	2400	2400	0
5/25/2024 13:51	64101	REFR_T1	10	10	0	1.27	1.15	-0.12	0.79	0.81	0	0	0	0	0	0
5/25/2024 13:52	11507	FREE_T2	2	5	3	0.75	0.97	0.22	0.52	0.69	0	0	0	0	0	0
5/25/2024 13:52	64101	REFR_T1	10	10	0	1.27	1.15	-0.12	0.79	0.81	0	0	0	0	0	0
5/25/2024 13:53	64101	REFR_T1	10	10	0	1.27	1.15	-0.12	0.81	0.83	0	0	0	0	0	0
5/25/2024 13:56	45602	WOOL_T1	31	32	1	0.47	0.48	0.01	0.33	0.41	0	0	0	0	0	0
5/25/2024 13:57	58006	WCAR_T2	0	0	0	0	0	0	-0.53	-0.51	0	0	0	0	0	0
5/25/2024 13:57	67804	WLAN_T1	10	10	0	0.53	0.69	0.16	0	0	0	0	0	0	0	0
5/25/2024 13:57	67801	WLAN_T1	1	0	-1	1.2	0	-1.2	-0.87	-0.82	0	0	0	0	0	0
5/25/2024 13:57	58002	WCAR_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
5/25/2024 13:58	45602	WOOL_T1	31	32	1	0.47	0.48	0.01	0.33	0.41	0	0	0	0	0	0
5/25/2024 13:58	56803	BENV_T1	3	5	2	0.97	0.45	-0.52	0	0	0	0	0	0	0	0
5/25/2024 13:58	56801	BENV_T1	3	6	3	0.7	0.45	-0.25	-1.78	-1.72	4	4	0	2400	2400	0
5/25/2024 13:59	56803	BENV_T1	3	5	2	0.97	0.45	-0.52	0	0	0	0	0	0	0	0
5/25/2024 13:59	45602	WOOL_T1	31	32	1	0.47	0.48	0.01	0.33	0.41	0	0	0	0	0	0
5/25/2024 13:59	56801	BENV_T1	3	6	3	0.7	0.45	-0.25	-0.89	-0.86	2	2	0	1200	1200	0
5/25/2024 14:03	58402	MORO_T1	0	0	0	0	0	0	-1.09	-1.08	3	3	0	2400	2400	0
5/25/2024 14:06	10801	CHHI_T1	5	10	5	0.82	0.78	-0.04	-1.41	-1.38	3	3	0	2100	2100	0
5/25/2024 14:06	10805	CHHI_T2	1	1	0	9.5	9.5	0	-1.08	-1.04	1	1	0	600	600	0
5/25/2024 14:09	41502	FAIR_T2	0	0	0	0	0	0	-1.46	-1.43	1	1	0	900	900	0
5/25/2024 14:14	61702	ELIZ_T2	0	0	0	0	0	0	-2.23	-2.24	2	2	0	1500	1500	0
5/25/2024 14:18	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
5/25/2024 14:18	63801	HEMP_T1	0	0	0	0	0	0	-0.44	-0.51	1	1	0	900	900	0
5/25/2024 14:22	64704	LITI_T1	0	0	0	0	0	0	0.22	0.25	1	1	0	600	600	0
5/25/2024 14:22	64701	LITI_T1	4	8	4	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/25/2024 15:30	42701	AUGU_T1	87	97	10	1.71	1.74	0.03	0	0	0	0	0	0	0	0
5/25/2024 15:30	61102	BERK_T5	0	0	0	0	0	0	0.14	0.2	2	2	0	1200	1200	0
5/25/2024 15:32	61102	BERK_T5	0	0	0	0	0	0	0.14	0.2	2	2	0	1200	1200	0
5/25/2024 15:33	44302	BEAV_T2	6	9	3	0.2	0.19	-0.01	0.55	0.57	0	0	0	0	0	0
5/25/2024 15:33	44301	BEAV_T2	2	3	1	1.35	0.5	-0.85	0	0	0	0	0	0	0	0
5/25/2024 15:33	42701	AUGU_T1	87	97	10	1.71	1.74	0.03	0	0	0	0	0	0	0	0
5/25/2024 15:34	42701	AUGU_T1	87	97	10	1.71	1.74	0.03	0	0	0	0	0	0	0	0
5/25/2024 15:34	52401	GRPA_T2	1	8	7	2	1.5	-0.5	0	0	0	0	0	0	0	0
5/25/2024 15:34	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 15:34	52402	GRPA_T2	5	7	2	0.58	0.28	-0.3	0	0	0	0	0	0	0	0
5/25/2024 15:34	52403	GRPA_T2	8	47	39	1.71	0.78	-0.93	-0.37	-0.48	0	0	0	0	0	0
5/25/2024 15:35	17805	GILB_T2	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
5/25/2024 15:35	17804	GILB_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/25/2024 15:36	52402	GRPA_T2	5	7	2	0.58	0.28	-0.3	0	0	0	0	0	0	0	0
5/25/2024 15:36	52403	GRPA_T2	8	47	39	1.71	0.78	-0.93	-0.37	-0.48	0	0	0	0	0	0
5/25/2024 15:36	52401	GRPA_T2	1	8	7	2	1.5	-0.5	0	0	0	0	0	0	0	0
5/25/2024 15:36	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 15:37	11507	FREE_T2	1	2	1	0.1	0.6	0.5	0.13	0.18	0	0	0	0	0	0
5/25/2024 15:37	17804	GILB_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/25/2024 15:37	17805	GILB_T2	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
5/25/2024 15:38	17804	GILB_T2	0	1	1	0	0.7	0.7	-0.38	-0.38	0	0	0	0	0	0
5/25/2024 15:38	47001	HUGH_T2	0	0	0	0	0	0	-1.21	-1.25	1	1	0	900	900	0
5/25/2024 15:40	47001	HUGH_T2	0	0	0	0	0	0	-1.25	-1.27	1	1	0	900	900	0
5/25/2024 15:41	66504	SMAN_T2	0	0	0	0	0	0	-0.81	-0.85	1	1	0	1200	1200	0
5/25/2024 15:41	58102	NEKI_T1	1	1	0	0.1	0.3	0.2	-1.3	-1.24	1	1	0	1200	1200	0
5/25/2024 15:41	58101	NEKI_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
5/25/2024 15:45	14403	SSLA_T1	0	1	1	0	0	0	0.11	0.15	2	2	0	1200	1200	0
5/25/2024 15:45	14404	SSLA_T1	1	1	0	0.8	2.3	1.5	0	0	0	0	0	0	0	0
5/25/2024 15:45	45402	WBLO_T2	1	1	0	0.7	0.1	-0.6	-1.18	-1.16	1	1	0	900	900	0
5/25/2024 15:45	43304	WATS_T2	1	5	4	0.6	0.4	-0.2	-0.7	-0.74	0	0	0	0	0	0
5/25/2024 15:46	55405	SHER_T1	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
5/25/2024 15:47	10805	CHHI_T2	6	18	12	1.85	9.4	7.55	-0.94	-0.91	1	1	0	600	600	0
5/25/2024 15:47	24901	WHHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/25/2024 15:47	24902	WHHA_T1	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
5/25/2024 15:49	24902	WHHA_T1	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
5/25/2024 15:49	43304	WATS_T2	1	5	4	0.6	0.4	-0.2	-0.7	-0.74	0	0	0	0	0	0
5/25/2024 15:49	24901	WHHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/25/2024 15:54	17804	GILB_T2	1	1	0	0.7	0.2	-0.5	-0.36	-0.35	0	0	0	0	0	0
5/25/2024 15:56	21206	ECAR_T2	2	1	-1	3.85	7.9	4.05	0.2	0.25	0	0	0	0	0	0
5/25/2024 15:56	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 15:57	58102	NEKI_T1	1	1	0	0.3	0.2	-0.1	-1.24	-1.23	1	1	0	1200	1200	0
5/25/2024 15:57	58101	NEKI_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
5/25/2024 16:00	66703	STRA_T1	0	0	0	0	0	0	-0.54	-0.51	0	0	0	0	0	0
5/25/2024 16:01	61102	BERK_T5	0	0	0	0	0	0	0.48	0.58	4	4	0	2400	2400	0
5/25/2024 16:02	61102	BERK_T5	0	0	0	0	0	0	0.48	0.58	4	4	0	2400	2400	0
5/25/2024 16:03	56801	BENV_T1	5	12	7	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
5/25/2024 16:03	56803	BENV_T1	10	14	4	0.71	0.54	-0.17	0.07	0.07	1	1	0	600	600	0
5/25/2024 16:03	61102	BERK_T5	0	0	0	0	0	0	0.24	0.29	2	2	0	1200	1200	0
5/25/2024 16:04	61102	BERK_T5	0	0	0	0	0	0	0.48	0.58	4	4	0	2400	2400	0
5/25/2024 16:21	59102	WALK_T2	1	0	-1	0.3	0	-0.3	-0.24	-0.23	0	0	0	0	0	0
5/25/2024 16:21	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 16:21	29402	BELT_T1	70	73	3	0.79	0.83	0.04	0	0	0	0	0	0	0	0
5/25/2024 16:23	55102	WERT_T2	1	0	-1	0.1	0	-0.1	-1.83	-1.82	2	2	0	1200	1200	0
5/25/2024 16:24	23102	MOSC_T2	0	0	0	0	0	0	-0.06	-0.18	2	2	0	1800	1800	0
5/25/2024 16:24	67804	WLAN_T1	8	9	1	0.48	0.37	-0.11	0	0	0	0	0	0	0	0
5/25/2024 16:24	67801	WLAN_T1	0	1	1	0	0.8	0.8	-0.84	-0.8	0	0	0	0	0	0
5/25/2024 16:25	29402	BELT_T1	70	73	3	0.79	0.83	0.04	0	0	0	0	0	0	0	0
5/25/2024 16:26	29402	BELT_T1	70	73	3	0.79	0.83	0.04	0	0	0	0	0	0	0	0
5/25/2024 16:29	64204	KINZ_T1	2	17	15	0.55	0.19	-0.36	0	0	0	0	0	0	0	0
5/25/2024 16:29	64201	KINZ_T1	0	7	7	0	0.26	0.26	0	0	0	0	0	0	0	0
5/25/2024 16:29	64203	KINZ_T1	20	59	39	0.36	0.37	0.01	-0.84	-0.9	2	2	0	900	900	0
5/25/2024 16:29	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/25/2024 16:45	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 16:45	55101	WERT_T1	0	0	0	0	0	0	-2.5	-2.51	4	4	0	3300	3300	0
5/25/2024 16:46	14403	SSLA_T1	0	1	1	0	0	0	0.12	0.11	2	2	0	1200	1200	0
5/25/2024 16:46	14404	SSLA_T1	1	1	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0
5/25/2024 16:46	14401	SSLA_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/25/2024 16:48	14403	SSLA_T1	0	1	1	0	0	0	0.12	0.11	2	2	0	1200	1200	0
5/25/2024 16:48	29402	BELT_T1	66	48	-18	0.76	0.69	-0.07	0	0	0	0	0	0	0	0
5/25/2024 16:48	14404	SSLA_T1	1	1	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0
5/25/2024 16:48	14401	SSLA_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/25/2024 16:48	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 16:50	10805	CHHI_T2	8	20	12	2	1.73	-0.27	-0.97	-0.92	1	1	0	600	600	0
5/25/2024 17:01	63401	HONY_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
5/25/2024 17:01	63404	HONY_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 17:03	63401	HONY_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
5/25/2024 17:03	63404	HONY_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/25/2024 17:03	63304	GREE_T1	0	0	0	0	0	0	-3.25	-3.27	1	1	0	1200	1200	0
5/25/2024 17:04	63304	GREE_T1	0	0	0	0	0	0	-3.25	-3.27	1	1	0	1200	1200	0
5/25/2024 17:05	54203	PENN_T1	17	17	0	0.39	0.42	0.03	0	0	0	0	0	0	0	0
5/25/2024 17:05	54201	PENN_T1	3	3	0	1.93	1.63	-0.3	-1.73	-1.65	0	0	0	0	0	0
5/25/2024 17:05	63401	HONY_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
5/25/2024 17:05	63404	HONY_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 17:08	44502	HAMI_T2	1	1	0	1.7	1.9	0.2	-0.49	-0.56	0	0	0	0	0	0
5/25/2024 17:09	67103	SPRI_T1	0	0	0	0	0	0	-0.74	-0.69	0	0	0	0	0	0
5/25/2024 17:09	64201	KINZ_T1	6	6	0	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
5/25/2024 17:09	64203	KINZ_T1	35	22	-13	0.37	0.31	-0.06	-0.21	-0.19	1	1	0	300	300	0
5/25/2024 17:09	64204	KINZ_T1	8	7	-1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
5/25/2024 17:10	64201	KINZ_T1	6	6	0	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
5/25/2024 17:10	64203	KINZ_T1	35	22	-13	0.37	0.31	-0.06	-0.21	-0.19	1	1	0	300	300	0
5/25/2024 17:10	64204	KINZ_T1	8	7	-1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
5/25/2024 17:14	29402	BELT_T1	28	60	32	0.4	0.72	0.32	0	0	0	0	0	0	0	0
5/25/2024 17:14	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 17:24	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 17:24	61304	EARL_T1	0	0	0	0	0	0	-0.05	-0.16	1	1	0	600	600	0
5/25/2024 17:27	15703	TANN_T2	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
5/25/2024 17:27	15702	TANN_T2	0	1	1	0	0.4	0.4	-0.07	-0.16	0	0	0	0	0	0
5/25/2024 17:34	46506	LOHA_T1	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
5/25/2024 17:34	46501	LOHA_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
5/25/2024 17:35	58302	NOTT_T1	0	0	0	0	0	0	-1.83	-0.91	2	1	-1	2100	1200	-900
5/25/2024 17:36	46501	LOHA_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
5/25/2024 17:36	46506	LOHA_T1	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
5/25/2024 17:37	46501	LOHA_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
5/25/2024 17:37	46506	LOHA_T1	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
5/25/2024 17:38	59101	WALK_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
5/25/2024 17:39	14603	SWHI_T1	4	2	-2	0.7	0	-0.7	-1.44	-1.44	2	2	0	1200	1200	0
5/25/2024 17:39	14605	SWHI_T1	4	1	-3	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
5/25/2024 17:41	58001	WCAR_T1	4	4	0	0.25	0.48	0.23	0	0	0	0	0	0	0	0
5/25/2024 17:41	58003	WCAR_T1	1	1	0	1.8	2	0.2	0.36	0.22	2	2	0	1200	1200	0
5/25/2024 17:42	58006	WCAR_T2	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
5/25/2024 17:43	64201	KINZ_T1	6	1	-5	0.18	0.1	-0.08	-0.4	-0.4	3	3	0	1500	1500	0
5/25/2024 17:43	64203	KINZ_T1	20	11	-9	0.32	0.24	-0.08	0	0	0	0	0	0	0	0
5/25/2024 17:43	64204	KINZ_T1	6	2	-4	0.3	0.35	0.05	0	0	0	0	0	0	0	0
5/25/2024 17:43	20401	ASHF_T2	3	2	-1	0.43	0	-0.43	0	0	0	0	0	0	0	0
5/25/2024 17:43	20403	ASHF_T2	0	0	0	0	0	0	0.91	0.86	0	0	0	0	0	0
5/25/2024 17:43	20402	ASHF_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/25/2024 18:00	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.5	0	0	0	0	0	0
5/25/2024 18:14	58006	WCAR_T2	0	0	0	0	0	0	-0.58	-0.62	0	0	0	0	0	0
5/25/2024 18:27	44502	HAMI_T2	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
5/25/2024 18:27	44505	HAMI_T2	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
5/25/2024 18:29	44505	HAMI_T2	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
5/25/2024 18:29	44502	HAMI_T2	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
5/25/2024 18:37	29402	BELT_T1	93	86	-7	1.07	1	-0.07	0	0	0	0	0	0	0	0
5/25/2024 18:37	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 18:38	29402	BELT_T1	93	86	-7	1.07	1	-0.07	0	0	0	0	0	0	0	0
5/25/2024 18:38	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 18:53	64101	REFR_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
5/25/2024 19:05	65602	QVIL_T2	2	2	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
5/25/2024 19:05	65604	QVIL_T2	5	5	0	0.94	0.7	-0.24	0	0	0	0	0	0	0	0
5/25/2024 19:05	65603	QVIL_T2	0	0	0	0	0	0	-1.09	-0.57	0	0	0	0	0	0
5/25/2024 19:07	42201	SHEN_T2	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
5/25/2024 19:11	42201	SHEN_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
5/25/2024 19:12	10805	CHHI_T2	1	1	0	9	8.5	-0.5	-1.06	-1.09	1	1	0	600	600	0
5/25/2024 19:12	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 19:15	52403	GRPA_T2	4	6	2	0.98	0.2	-0.78	-0.56	-0.57	0	0	0	0	0	0
5/25/2024 19:15	64204	KINZ_T1	24	40	16	0.38	0.38	0	0	0	0	0	0	0	0	0
5/25/2024 19:15	64203	KINZ_T1	63	102	39	0.41	0.44	0.03	-0.25	-0.11	1	1	0	300	300	0
5/25/2024 19:15	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/25/2024 19:15	64202	KINZ_T1	9	14	5	0.37	0.45	0.08	0	0	0	0	0	0	0	0
5/25/2024 19:15	64201	KINZ_T1	14	20	6	0.39	0.43	0.04	0	0	0	0	0	0	0	0
5/25/2024 19:16	64201	KINZ_T1	14	20	6	0.39	0.43	0.04	0	0	0	0	0	0	0	0
5/25/2024 19:16	64203	KINZ_T1	63	102	39	0.41	0.44	0.03	-0.25	-0.11	1	1	0	300	300	0
5/25/2024 19:16	64202	KINZ_T1	9	14	5	0.37	0.45	0.08	0	0	0	0	0	0	0	0
5/25/2024 19:16	64204	KINZ_T1	24	40	16	0.38	0.38	0	0	0	0	0	0	0	0	0
5/25/2024 20:23	43201	MVIL_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
5/25/2024 20:26	65205	PRIN_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
5/25/2024 20:33	21204	ECAR_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
5/25/2024 20:33	21206	ECAR_T2	6	6	0	1.52	7.5	5.98	0.06	-0.01	0	0	0	0	0	0
5/25/2024 20:34	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/25/2024 20:37	46203	DANV_T2	0	0	0	0	0	0	-1.71	-1.76	0	0	0	0	0	0
5/25/2024 20:37	46206	DANV_T2	13	13	0	3.21	3.48	0.27	0	0	0	0	0	0	0	0
5/25/2024 20:38	46206	DANV_T2	13	13	0	3.21	3.48	0.27	0	0	0	0	0	0	0	0
5/25/2024 20:38	46203	DANV_T2	0	0	0	0	0	0	-3.42	-3.52	0	0	0	0	0	0
5/25/2024 20:39	46203	DANV_T2	0	0	0	0	0	0	-3.52	-3.58	0	0	0	0	0	0
5/25/2024 20:39	46206	DANV_T2	13	13	0	3.21	3.48	0.27	0	0	0	0	0	0	0	0
5/25/2024 20:40	67702	WERN_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/25/2024 20:50	67703	WERN_T2	0	0	0	0	0	0	-0.53	-0.54	1	1	0	900	900	0
5/25/2024 20:52	67703	WERN_T2	0	0	0	0	0	0	-1.06	-1.08	2	2	0	1800	1800	0
5/25/2024 20:55	61102	BERK_T5	0	0	0	0	0	0	-0.48	0.36	2	1	-1	1200	300	-900
5/25/2024 20:59	67703	WERN_T2	0	0	0	0	0	0	-0.54	-0.56	1	1	0	900	900	0
5/25/2024 21:00	61102	BERK_T5	0	0	0	0	0	0	-0.48	0.36	2	1	-1	1200	300	-900
5/25/2024 21:01	61102	BERK_T5	0	0	0	0	0	0	-0.48	0.36	2	1	-1	1200	300	-900
5/25/2024 21:02	61102	BERK_T5	0	0	0	0	0	0	-0.96	0.71	4	2	-2	2400	600	-1800
5/25/2024 21:03	61102	BERK_T5	0	0	0	0	0	0	-0.96	0.71	4	2	-2	2400	600	-1800
5/25/2024 21:04	61102	BERK_T5	0	0	0	0	0	0	-0.48	0.36	2	1	-1	1200	300	-900
5/25/2024 21:06	61102	BERK_T5	0	0	0	0	0	0	-0.96	0.71	4	2	-2	2400	600	-1800
5/25/2024 21:10	67103	SPRI_T1	0	0	0	0	0	0	-0.82	-0.88	0	0	0	0	0	0
5/25/2024 21:13	24201	PROV_T3	1	1	0	7.7	7.2	-0.5	-1.13	-1.19	1	1	0	1200	1200	0
5/25/2024 21:13	24205	PROV_T3	1	1	0	0.4	2.1	1.7	0	0	0	0	0	0	0	0
5/25/2024 21:13	24204	PROV_T3	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
5/25/2024 21:14	45902	AUBU_T1	0	0	0	0	0	0	-0.35	-0.55	0	0	0	0	0	0
5/25/2024 21:18	40101	HUNT_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
5/25/2024 21:28	55002	NEWP_T1	3	4	1	0.7	0.83	0.13	-0.17	-0.19	0	0	0	0	0	0
5/25/2024 21:29	44502	HAMI_T2	1	1	0	2.6	2.8	0.2	-0.71	-0.75	0	0	0	0	0	0
5/25/2024 21:29	55002	NEWP_T1	3	4	1	0.7	0.83	0.13	-0.17	-0.19	0	0	0	0	0	0
5/25/2024 21:30	54201	PENN_T1	4	5	1	0.98	0.94	-0.04	-0.77	-0.7	0	0	0	0	0	0
5/25/2024 21:30	55002	NEWP_T1	4	4	0	0.7	0.93	0.23	-0.17	-0.19	0	0	0	0	0	0
5/25/2024 21:30	54203	PENN_T1	5	18	13	0.74	0.62	-0.12	0	0	0	0	0	0	0	0
5/25/2024 21:31	43102	SMIL_T2	5	4	-1	0.32	0.18	-0.14	0	0	0	0	0	0	0	0
5/25/2024 21:31	43103	SMIL_T2	16	3	-13	0.74	0.2	-0.54	-4	-1.45	0	0	0	0	0	0
5/25/2024 21:31	44502	HAMI_T2	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
5/25/2024 21:31	44505	HAMI_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
5/25/2024 21:32	42701	AUGU_T1	56	56	0	0.47	0.31	-0.16	0	0	0	0	0	0	0	0
5/25/2024 21:33	55002	NEWP_T1	4	4	0	0.7	0.93	0.23	-0.17	-0.19	0	0	0	0	0	0
5/25/2024 21:34	45501	DERR_T2	0	0	0	0	0	0	-0.46	-0.38	2	2	0	1800	1800	0
5/25/2024 21:37	43108	SMIL_T2	0	0	0	0	0	0	-1.05	-1.15	1	1	0	1200	1200	0
5/25/2024 21:37	43103	SMIL_T2	16	3	-13	0.74	0.2	-0.54	0	0	0	0	0	0	0	0
5/25/2024 21:37	42701	AUGU_T1	56	56	0	0.47	0.31	-0.16	0	0	0	0	0	0	0	0
5/25/2024 21:37	43102	SMIL_T2	5	4	-1	0.32	0.18	-0.14	0	0	0	0	0	0	0	0
5/25/2024 21:41	60101	COCA_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
5/25/2024 21:41	43102	SMIL_T2	5	4	-1	0.32	0.18	-0.14	0	0	0	0	0	0	0	0
5/25/2024 21:41	43103	SMIL_T2	16	3	-13	0.74	0.2	-0.54	-0.72	-0.73	0	0	0	0	0	0
5/25/2024 21:41	58302	NOTT_T1	0	0	0	0	0	0	-0.98	-0.99	1	1	0	1200	1200	0
5/25/2024 21:42	43102	SMIL_T2	5	4	-1	0.32	0.18	-0.14	0	0	0	0	0	0	0	0
5/25/2024 21:42	43103	SMIL_T2	16	3	-13	0.74	0.2	-0.54	-0.72	-0.73	0	0	0	0	0	0
5/25/2024 21:42	45501	DERR_T2	0	0	0	0	0	0	-0.38	-0.39	2	2	0	1800	1800	0
5/25/2024 21:43	67605	WARW_T1	0	0	0	0	0	0	-1.16	-1.17	0	0	0	0	0	0
5/25/2024 21:44	60101	COCA_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
5/25/2024 21:46	42701	AUGU_T1	56	46	-10	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
5/25/2024 21:47	47001	HUGH_T2	0	1	1	0	0.2	0.2	-1.72	-1.76	1	1	0	900	900	0
5/25/2024 21:47	29402	BELT_T1	1	1	0	8.5	8.7	0.2	0	0	0	0	0	0	0	0
5/25/2024 21:47	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 21:47	47002	HUGH_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
5/25/2024 21:47	67603	WARW_T1	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
5/25/2024 21:47	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
5/25/2024 21:48	13905	SEID_T1	0	0	0	0	0	0	-0.65	-0.65	1	1	0	1200	1200	0
5/25/2024 21:49	44505	HAMI_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
5/25/2024 21:49	44502	HAMI_T2	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
5/25/2024 21:50	55405	SHER_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
5/25/2024 21:51	47002	HUGH_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
5/25/2024 21:51	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 21:51	44502	HAMI_T2	1	1	0	2.8	3	0.2	-0.75	-0.73	0	0	0	0	0	0
5/25/2024 21:51	40101	HUNT_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
5/25/2024 21:51	55408	SHER_T2	1	1	0	1.4	1.8	0.4	-0.85	-0.85	1	1	0	1200	1200	0
5/25/2024 21:51	47001	HUGH_T2	0	1	1	0	0.2	0.2	-1.72	-1.76	1	1	0	900	900	0
5/25/2024 21:52	29402	BELT_T1	1	1	0	8.5	8.7	0.2	0	0	0	0	0	0	0	0
5/25/2024 21:52	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 21:52	45501	DERR_T2	0	0	0	0	0	0	-0.38	-0.39	2	2	0	1800	1800	0
5/25/2024 21:52	10801	CHHI_T1	0	0	0	0	0	0	-1.65	-1.59	3	3	0	2100	2100	0
5/25/2024 21:53	16301	ALPA_T1	1	1	0	0.2	0.4	0.2	0.1	0.03	0	0	0	0	0	0
5/25/2024 21:53	29402	BELT_T1	1	1	0	8.5	8.7	0.2	0	0	0	0	0	0	0	0
5/25/2024 21:53	14404	SSLA_T1	1	1	0	3.8	4.2	0.4	0	0	0	0	0	0	0	0
5/25/2024 21:53	55408	SHER_T2	1	1	0	1.4	1.8	0.4	-0.85	-0.89	1	1	0	1200	1200	0
5/25/2024 21:53	14403	SSLA_T1	0	0	0	0	0	0	0.22	0.18	1	1	0	600	600	0
5/25/2024 21:53	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 21:55	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/25/2024 21:55	66504	SMAN_T2	0	0	0	0	0	0	-2.98	-3.06	2	2	0	2400	2400	0
5/25/2024 21:56	61803	EELI_T2	0	0	0	0	0	0	0.14	0.11	1	1	0	600	600	0
5/25/2024 21:56	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/25/2024 21:56	66504	SMAN_T2	0	0	0	0	0	0	-1.49	-1.53	1	1	0	1200	1200	0
5/25/2024 21:57	29402	BELT_T1	1	1	0	8.5	8.7	0.2	0	0	0	0	0	0	0	0
5/25/2024 21:57	61304	EARL_T1	0	0	0	0	0	0	-0.6	-0.62	1	1	0	600	600	0
5/25/2024 21:57	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 21:57	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 21:58	22901	HARW_T1	0	0	0	0	0	0	-0.57	-0.6	1	1	0	1200	1200	0
5/25/2024 21:58	22903	HARW_T1	2	22	20	1	1.2	0.2	0	0	0	0	0	0	0	0
5/25/2024 21:59	26603	BROO_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
5/25/2024 21:59	67605	WARW_T1	0	0	0	0	0	0	-1.17	-1.18	0	0	0	0	0	0
5/25/2024 22:00	64101	REFR_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
5/25/2024 22:00	42201	SHEN_T2	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/25/2024 22:00	61301	EARL_T1	0	0	0	0	0	0	-0.73	-0.71	1	1	0	900	900	0
5/25/2024 22:00	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 22:00	11507	FREE_T2	0	0	0	0	0	0	0.38	0.44	0	0	0	0	0	0
5/25/2024 22:01	14403	SSLA_T1	0	0	0	0	0	0	0.18	0.2	1	1	0	600	600	0
5/25/2024 22:01	14603	SWHI_T1	0	0	0	0	0	0	-1.65	-1.65	2	2	0	1200	1200	0
5/25/2024 22:01	29402	BELT_T1	1	1	0	8.1	8.7	0.6	0	0	0	0	0	0	0	0
5/25/2024 22:01	14404	SSLA_T1	1	1	0	3.9	4.4	0.5	0	0	0	0	0	0	0	0
5/25/2024 22:02	26601	BROO_T1	0	0	0	0	0	0	-0.2	-0.22	1	1	0	600	600	0
5/25/2024 22:02	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/25/2024 22:02	66502	SMAN_T2	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
5/25/2024 22:02	29402	BELT_T1	1	1	0	8.1	8.7	0.6	0	0	0	0	0	0	0	0
5/25/2024 22:02	45902	AUBU_T1	1	19	18	0.1	0.27	0.17	0	0	0	0	0	0	0	0
5/25/2024 22:02	64101	REFR_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
5/25/2024 22:02	45901	AUBU_T1	0	0	0	0	0	0	1.05	1.07	0	0	0	0	0	0
5/25/2024 22:03	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 22:03	45902	AUBU_T1	1	19	18	0.1	0.27	0.17	-0.61	-0.7	0	0	0	0	0	0
5/25/2024 22:03	17802	GILB_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
5/25/2024 22:04	52403	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 22:04	63804	HEMP_T1	1	1	0	5.1	5.5	0.4	-0.13	-0.17	0	0	0	0	0	0
5/25/2024 22:04	52401	GRPA_T2	0	1	1	0	0.4	0.4	-0.51	-0.51	0	0	0	0	0	0
5/25/2024 22:04	45901	AUBU_T1	0	0	0	0	0	0	1.05	1.07	0	0	0	0	0	0
5/25/2024 22:04	45902	AUBU_T1	1	19	18	0.1	0.27	0.17	-1.23	-1.4	0	0	0	0	0	0
5/25/2024 22:04	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/25/2024 22:04	42201	SHEN_T2	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
5/25/2024 22:04	66502	SMAN_T2	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
5/25/2024 22:04	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 22:04	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/25/2024 22:04	10801	CHHI_T1	0	11	11	0	0.1	0.1	-1.59	-1.66	3	3	0	2100	2100	0
5/25/2024 22:05	17803	GILB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/25/2024 22:05	45902	AUBU_T1	1	19	18	0.1	0.27	0.17	-0.61	-0.7	0	0	0	0	0	0
5/25/2024 22:05	64101	REFR_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
5/25/2024 22:05	63404	HONY_T1	0	16	16	0	0.17	0.17	0	0	0	0	0	0	0	0
5/25/2024 22:05	63401	HONY_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
5/25/2024 22:05	17805	GILB_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
5/25/2024 22:06	48302	ORWI_T2	2	2	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
5/25/2024 22:06	63404	HONY_T1	0	16	16	0	0.17	0.17	0	0	0	0	0	0	0	0
5/25/2024 22:06	64201	KINZ_T1	0	1	1	0	0.3	0.3	0.68	0.58	1	1	0	300	300	0
5/25/2024 22:06	64202	KINZ_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
5/25/2024 22:06	63401	HONY_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
5/25/2024 22:06	64101	REFR_T1	0	0	0	0	0	0	0.37	0.33	0	0	0	0	0	0
5/25/2024 22:06	25503	MADI_T1	116	147	31	0.45	0.6	0.15	-0.82	-0.81	0	0	0	0	0	0
5/25/2024 22:06	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 22:06	64204	KINZ_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/25/2024 22:06	13302	ORVI_T2	0	0	0	0	0	0	1.74	1.8	0	0	0	0	0	0
5/25/2024 22:07	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/25/2024 22:07	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/25/2024 22:07	61304	EARL_T1	0	0	0	0	0	0	-0.6	-0.62	1	1	0	600	600	0
5/25/2024 22:07	26603	BROO_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
5/25/2024 22:07	64101	REFR_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
5/25/2024 22:07	29402	BELT_T1	1	1	0	8.1	8.7	0.6	0	0	0	0	0	0	0	0
5/25/2024 22:08	64101	REFR_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
5/25/2024 22:08	17803	GILB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/25/2024 22:08	65604	QVIL_T2	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
5/25/2024 22:08	61102	BERK_T5	0	0	0	0	0	0	0.26	0.27	1	1	0	300	300	0
5/25/2024 22:08	17805	GILB_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
5/25/2024 22:08	61304	EARL_T1	0	0	0	0	0	0	-0.62	-0.71	1	1	0	600	600	0
5/25/2024 22:08	45402	WILO_T2	1	1	0	0.7	0.8	0.1	-1.53	-1.56	1	1	0	900	900	0
5/25/2024 22:09	65901	SAKR_T2	1	1	0	8.4	8.4	0	-1.36	-1.53	2	2	0	1500	1500	0
5/25/2024 22:09	63304	GREE_T1	0	0	0	0	0	0	-1.41	-1.45	0	0	0	0	0	0
5/25/2024 22:09	10801	CHHI_T1	0	11	11	0	0.1	0.1	-3.32	-3.44	6	6	0	4200	4200	0
5/25/2024 22:09	63305	GREE_T1	2	0	-2	0	0	0	0	0	0	0	0	0	0	0
5/25/2024 22:10	63404	HONY_T1	0	16	16	0	0.17	0.17	0	0	0	0	0	0	0	0
5/25/2024 22:10	10805	CHHI_T2	1	1	0	8.4	7.8	-0.6	-1.32	-1.33	1	1	0	600	600	0
5/25/2024 22:10	63401	HONY_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
5/25/2024 22:10	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	-0.97	-0.6	1	1	0	900	900	0
5/25/2024 22:10	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/25/2024 22:10	63804	HEMP_T1	1	1	0	5.1	5.5	0.4	0	0	0	0	0	0	0	0
5/25/2024 22:11	61102	BERK_T5	0	0	0	0	0	0	0.26	0.27	1	1	0	300	300	0
5/25/2024 22:11	23102	MOSC_T2	0	0	0	0	0	0	-0.99	-0.76	2	2	0	1800	1800	0
5/25/2024 22:11	45902	AUBU_T1	1	19	18	0.1	0.27	0.17	0	0	0	0	0	0	0	0
5/25/2024 22:11	64101	REFR_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
5/25/2024 22:11	45901	AUBU_T1	0	0	0	0	0	0	1.07	1.06	0	0	0	0	0	0
5/25/2024 22:12	45902	AUBU_T1	1	19	18	0.1	0.27	0.17	-0.7	-0.63	0	0	0	0	0	0
5/25/2024 22:12	15702	TANN_T2	0	1	1	0	0	0	-0.28	-0.24	0	0	0	0	0	0
5/25/2024 22:12	15703	TANN_T2	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
5/25/2024 22:12	61102	BERK_T5	0	0	0	0	0	0	0.26	0.27	1	1	0	300	300	0
5/25/2024 22:12	65604	QVIL_T2	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
5/25/2024 22:13	21203	ECAR_T1	0	8	8	0	0.33	0.33	0.6	0.55	0	0	0	0	0	0
5/25/2024 22:13	63804	HEMP_T1	1	1	0	5.1	5.5	0.4	0	0	0	0	0	0	0	0
5/25/2024 22:13	66703	STRA_T1	15	0	-15	0.35	0	-0.35	-0.56	-0.55	0	0	0	0	0	0
5/25/2024 22:13	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	-0.97	-0.6	1	1	0	900	900	0
5/25/2024 22:14	45902	AUBU_T1	1	19	18	0.1	0.27	0.17	-0.7	-0.63	0	0	0	0	0	0
5/25/2024 22:14	13503	MCMI_T2	0	20	20	0	0.12	0.12	-2.58	-2.65	0	0	0	0	0	0
5/25/2024 22:14	64101	REFR_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
5/25/2024 22:14	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.18	-1.22	0	0	0	0	0	0
5/25/2024 22:14	14404	SSLA_T1	1	1	0	3.9	4.4	0.5	0	0	0	0	0	0	0	0
5/25/2024 22:14	14403	SSLA_T1	0	0	0	0	0	0	0.2	0.16	1	1	0	600	600	0
5/25/2024 22:15	45902	AUBU_T1	15	18	3	0.23	0.26	0.03	-0.7	-0.63	0	0	0	0	0	0
5/25/2024 22:16	20403	ASHF_T2	0	0	0	0	0	0	0.45	0.4	0	0	0	0	0	0
5/25/2024 22:16	20402	ASHF_T2	1	0	-1	6.3	0	-6.3	0	0	0	0	0	0	0	0
5/25/2024 22:16	61304	EARL_T1	0	0	0	0	0	0	-0.62	-0.71	1	1	0	600	600	0
5/25/2024 22:17	17804	GILB_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
5/25/2024 22:17	44302	BEAV_T2	257	365	108	0.48	0.62	0.14	0.47	0.47	0	0	0	0	0	0
5/25/2024 22:17	17803	GILB_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
5/25/2024 22:17	44301	BEAV_T2	10	12	2	0.46	0.66	0.2	-0.66	-0.68	0	0	0	0	0	0
5/25/2024 22:17	24902	WHHA_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
5/25/2024 22:18	15703	TANN_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
5/25/2024 22:18	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/25/2024 22:18	15702	TANN_T2	0	0	0	0	0	0	-0.28	-0.24	0	0	0	0	0	0
5/25/2024 22:18	63302	GREE_T1	0	0	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
5/25/2024 22:18	44301	BEAV_T2	10	12	2	0.46	0.66	0.2	-0.33	-0.34	0	0	0	0	0	0
5/25/2024 22:18	29402	BELT_T1	1	1	0	8.7	8.9	0.2	0	0	0	0	0	0	0	0
5/25/2024 22:18	44302	BEAV_T2	257	365	108	0.48	0.62	0.14	0.47	0.47	0	0	0	0	0	0
5/25/2024 22:18	63304	GREE_T1	0	0	0	0	0	0	-1.41	-1.45	0	0	0	0	0	0
5/25/2024 22:19	13503	MCMI_T2	20	7	-13	0.12	0.1	-0.02	-0.86	-0.88	0	0	0	0	0	0
5/25/2024 22:19	24902	WHHA_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
5/25/2024 22:19	22903	HARW_T1	22	22	0	0.71	0.52	-0.19	0	0	0	0	0	0	0	0
5/25/2024 22:19	22901	HARW_T1	0	0	0	0	0	0	-0.6	-0.71	1	1	0	1200	1200	0
5/25/2024 22:20	20403	ASHF_T2	0	0	0	0	0	0	0.45	0.4	0	0	0	0	0	0
5/25/2024 22:20	20402	ASHF_T2	1	0	-1	6.3	0	-6.3	0	0	0	0	0	0	0	0
5/25/2024 22:21	45902	AUBU_T1	15	18	3	0.23	0.26	0.03	-0.7	-0.63	0	0	0	0	0	0
5/25/2024 22:22	43301	WATS_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
5/25/2024 22:22	43304	WATS_T2	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
5/25/2024 22:23	58402	MORO_T1	0	0	0	0	0	0	-0.46	-0.46	2	2	0	1500	1500	0
5/25/2024 22:24	66703	STRA_T1	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
5/25/2024 22:24	43304	WATS_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
5/25/2024 22:24	43301	WATS_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
5/25/2024 22:31	58001	WCAR_T1	6	5	-1	1.1	1.42	0.32	0	0	0	0	0	0	0	0
5/25/2024 22:31	58003	WCAR_T1	17	18	1	0.22	0.21	-0.01	0.66	0.65	0	0	0	0	0	0
5/25/2024 22:31	58006	WCAR_T2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
5/25/2024 22:32	58006	WCAR_T2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
5/25/2024 22:34	43108	SMIL_T2	0	0	0	0	0	0	-1.21	-1.21	1	1	0	1200	1200	0
5/25/2024 22:34	43101	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/25/2024 22:34	43103	SMIL_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
5/25/2024 22:34	43102	SMIL_T2	4	5	1	0.28	0.4	0.12	0	0	0	0	0	0	0	0
5/25/2024 22:35	56803	BENV_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
5/25/2024 22:35	58003	WCAR_T1	17	18	1	0.22	0.21	-0.01	0.66	0.65	0	0	0	0	0	0
5/25/2024 22:35	56801	BENV_T1	15	18	3	1.17	1.44	0.27	0	0	0	0	0	0	0	0
5/25/2024 22:35	58001	WCAR_T1	6	5	-1	1.1	1.42	0.32	0	0	0	0	0	0	0	0
5/25/2024 22:36	58102	NEKI_T1	1	1	0	1	0.9	-0.1	-0.99	-0.96	1	1	0	1200	1200	0
5/25/2024 22:37	58402	MORO_T1	0	0	0	0	0	0	-0.46	-0.46	2	2	0	1500	1500	0
5/25/2024 22:37	55101	WERT_T1	0	0	0	0	0	0	-1.24	-1.23	2	2	0	1500	1500	0
5/25/2024 22:37	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/25/2024 22:38	42701	AUGU_T1	15	4	-11	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
5/25/2024 22:38	56801	BENV_T1	15	18	3	1.17	1.44	0.27	-1.07	-1.11	2	2	0	1200	1200	0
5/25/2024 22:39	56801	BENV_T1	15	18	3	1.17	1.44	0.27	-1.07	-1.11	2	2	0	1200	1200	0
5/25/2024 22:39	42701	AUGU_T1	15	4	-11	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
5/25/2024 22:40	42902	MIDD_T2	202	270	68	0.57	0.69	0.12	-3.2	-3.15	0	0	0	0	0	0
5/25/2024 22:40	42901	MIDD_T2	380	489	109	0.55	0.7	0.15	0	0	0	0	0	0	0	0
5/25/2024 22:40	58402	MORO_T1	0	0	0	0	0	0	-0.46	-0.48	2	2	0	1500	1500	0
5/25/2024 22:40	42903	MIDD_T2	91	153	62	0.47	0.58	0.11	0	0	0	0	0	0	0	0
5/25/2024 22:42	44302	BEAV_T2	270	367	97	0.5	0.62	0.12	0.47	0.46	0	0	0	0	0	0
5/25/2024 22:42	42901	MIDD_T2	380	489	109	0.55	0.7	0.15	0	0	0	0	0	0	0	0
5/25/2024 22:42	52402	GRPA_T2	0	1	1	0	0.5	0.5	-0.78	-0.82	0	0	0	0	0	0
5/25/2024 22:42	52401	GRPA_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
5/25/2024 22:42	42902	MIDD_T2	202	270	68	0.57	0.69	0.12	-0.64	-0.63	0	0	0	0	0	0
5/25/2024 22:42	42903	MIDD_T2	91	153	62	0.47	0.58	0.11	-0.46	-0.46	0	0	0	0	0	0
5/25/2024 22:42	44301	BEAV_T2	12	12	0	0.45	0.66	0.21	0	0	0	0	0	0	0	0
5/25/2024 22:43	42902	MIDD_T2	202	270	68	0.57	0.69	0.12	-1.28	-1.26	0	0	0	0	0	0
5/25/2024 22:43	52402	GRPA_T2	0	1	1	0	0.5	0.5	-0.78	-0.82	0	0	0	0	0	0
5/25/2024 22:43	42901	MIDD_T2	380	489	109	0.55	0.7	0.15	0	0	0	0	0	0	0	0
5/25/2024 22:43	42903	MIDD_T2	91	153	62	0.47	0.58	0.11	0	0	0	0	0	0	0	0
5/25/2024 22:43	52401	GRPA_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
5/25/2024 22:44	46803	HEPB_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/25/2024 22:44	59101	WALK_T2	44	53	9	0.29	0.48	0.19	-0.96	-0.94	0	0	0	0	0	0
5/25/2024 22:44	52403	GRPA_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
5/25/2024 22:44	46801	HEPB_T2	14	11	-3	0.25	0.26	0.01	1.46	1.42	0	0	0	0	0	0
5/25/2024 22:44	45602	WOOL_T1	146	42	-104	0.81	0.37	-0.44	1.43	1.46	0	0	0	0	0	0
5/25/2024 22:44	52402	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/25/2024 22:44	52401	GRPA_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
5/25/2024 22:46	52403	GRPA_T2	0	2	2	0	0.2	0.2	-0.48	-0.5	0	0	0	0	0	0
5/25/2024 22:46	52401	GRPA_T2	1	2	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/25/2024 22:46	46504	LOHA_T1	2	3	1	0.7	1.03	0.33	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/25/2024 22:46	45602	WOOL_T1	42	9	-33	0.37	0.19	-0.18	0.72	0.73	0	0	0	0	0	0
5/25/2024 22:46	42902	MIDD_T2	257	282	25	0.68	0.7	0.02	-0.64	-0.63	0	0	0	0	0	0
5/25/2024 22:46	46502	LOHA_T1	67	153	86	0.24	0.32	0.08	0	0	0	0	0	0	0	0
5/25/2024 22:46	42901	MIDD_T2	468	515	47	0.71	0.73	0.02	0	0	0	0	0	0	0	0
5/25/2024 22:46	52402	GRPA_T2	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
5/25/2024 22:46	42903	MIDD_T2	147	163	16	0.58	0.58	0	0	0	0	0	0	0	0	0
5/25/2024 22:46	45702	LIND_T2	1	1	0	0.8	1.3	0.5	-1.77	-1.78	0	0	0	0	0	0
5/25/2024 22:46	46506	LOHA_T1	0	1	1	0	0.6	0.6	-0.36	-0.36	0	0	0	0	0	0
5/25/2024 22:47	44301	BEAV_T2	11	9	-2	0.66	0.4	-0.26	0	0	0	0	0	0	0	0
5/25/2024 22:47	44302	BEAV_T2	365	268	-97	0.62	0.52	-0.1	0.47	0.46	0	0	0	0	0	0
5/25/2024 22:47	59101	WALK_T2	53	45	-8	0.48	0.31	-0.17	-0.48	-0.47	0	0	0	0	0	0
5/25/2024 22:47	46803	HEPB_T2	1	7	6	0.2	0.13	-0.07	0.49	0.5	0	0	0	0	0	0
5/25/2024 22:47	46801	HEPB_T2	3	18	15	0.6	0.22	-0.38	1.46	1.42	0	0	0	0	0	0
5/25/2024 22:48	45702	LIND_T2	1	1	0	0.8	1.3	0.5	-1.77	-1.78	0	0	0	0	0	0
5/25/2024 22:50	44301	BEAV_T2	11	9	-2	0.66	0.4	-0.26	-0.36	0.19	0	0	0	0	0	0
5/25/2024 22:50	44302	BEAV_T2	365	268	-97	0.62	0.52	-0.1	0	0	0	0	0	0	0	0
5/26/2024 2:50	65603	QVIL_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
5/26/2024 6:28	24201	PROV_T3	1	1	0	6.5	6.8	0.3	-0.15	-0.13	0	0	0	0	0	0
5/26/2024 6:28	24204	PROV_T3	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
5/26/2024 6:30	29402	BELT_T1	1	1	0	7.8	7.6	-0.2	0	0	0	0	0	0	0	0
5/26/2024 6:30	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 6:31	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 6:31	29402	BELT_T1	1	1	0	7.8	7.6	-0.2	0	0	0	0	0	0	0	0
5/26/2024 7:00	20403	ASHF_T2	0	0	0	0	0	0	0	0.08	0	0	0	0	0	0
5/26/2024 7:07	14204	EALL_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
5/26/2024 7:42	42601	TUSC_T1	1	1	0	0.3	0.2	-0.1	-0.67	-0.71	1	1	0	1200	1200	0
5/26/2024 7:43	13704	SCHN_T2	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
5/26/2024 7:44	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
5/26/2024 7:44	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
5/26/2024 7:45	64101	REFR_T1	0	0	0	0	0	0	0.13	0.17	0	0	0	0	0	0
5/26/2024 7:46	15203	SFAR_T2	0	0	0	0	0	0	-1.16	-1.13	0	0	0	0	0	0
5/26/2024 7:48	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
5/26/2024 7:48	15204	SFAR_T2	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
5/26/2024 7:48	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
5/26/2024 7:51	45902	AUBU_T1	100	49	-51	0.24	0.23	-0.01	-0.73	-0.71	0	0	0	0	0	0
5/26/2024 7:51	45901	AUBU_T1	0	0	0	0	0	0	1.03	1.01	0	0	0	0	0	0
5/26/2024 7:52	20401	ASHF_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
5/26/2024 7:52	56803	BENV_T1	1	1	0	1.7	0	-1.7	-0.22	-0.22	0	0	0	0	0	0
5/26/2024 7:52	56801	BENV_T1	7	13	6	1.16	0.81	-0.35	0	0	0	0	0	0	0	0
5/26/2024 7:53	56801	BENV_T1	7	13	6	1.16	0.81	-0.35	0	0	0	0	0	0	0	0
5/26/2024 7:53	29402	BELT_T1	1	1	0	7.3	7	-0.3	0	0	0	0	0	0	0	0
5/26/2024 7:53	56802	BENV_T2	0	0	0	0	0	0	-1.35	-1.35	0	0	0	0	0	0
5/26/2024 7:53	45902	AUBU_T1	100	49	-51	0.24	0.23	-0.01	-0.71	-0.67	0	0	0	0	0	0
5/26/2024 7:53	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 7:53	20403	ASHF_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
5/26/2024 7:53	56803	BENV_T1	1	1	0	1.7	0	-1.7	-0.11	-0.09	0	0	0	0	0	0
5/26/2024 7:54	56802	BENV_T2	0	0	0	0	0	0	-1.35	-1.35	0	0	0	0	0	0
5/26/2024 7:54	29402	BELT_T1	1	1	0	7.3	7	-0.3	0	0	0	0	0	0	0	0
5/26/2024 7:54	45902	AUBU_T1	100	49	-51	0.24	0.23	-0.01	-0.71	-0.67	0	0	0	0	0	0
5/26/2024 7:54	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 7:54	56801	BENV_T1	7	13	6	1.16	0.81	-0.35	0	0	0	0	0	0	0	0
5/26/2024 7:54	56803	BENV_T1	1	1	0	1.7	0	-1.7	-0.11	-0.09	0	0	0	0	0	0
5/26/2024 7:55	56801	BENV_T1	7	13	6	1.16	0.81	-0.35	0	0	0	0	0	0	0	0
5/26/2024 7:55	56803	BENV_T1	1	1	0	1.7	0	-1.7	-0.11	-0.09	0	0	0	0	0	0
5/26/2024 7:55	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 7:55	29402	BELT_T1	1	1	0	7.3	7	-0.3	0	0	0	0	0	0	0	0
5/26/2024 7:56	56802	BENV_T2	0	0	0	0	0	0	-1.35	-1.35	0	0	0	0	0	0
5/26/2024 7:56	29402	BELT_T1	1	1	0	7.3	7	-0.3	0	0	0	0	0	0	0	0
5/26/2024 7:56	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 8:01	21203	ECAR_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
5/26/2024 8:07	46801	HEPB_T2	2	2	0	0.55	0.4	-0.15	0.64	0.66	0	0	0	0	0	0
5/26/2024 8:07	46803	HEPB_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
5/26/2024 8:11	46801	HEPB_T2	2	2	0	0.55	0.4	-0.15	0.66	0.68	0	0	0	0	0	0
5/26/2024 8:38	59101	WALK_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
5/26/2024 8:42	45902	AUBU_T1	11	15	4	0.26	0.25	-0.01	-0.66	-0.65	0	0	0	0	0	0
5/26/2024 8:43	45902	AUBU_T1	11	15	4	0.26	0.25	-0.01	-0.66	-0.65	0	0	0	0	0	0
5/26/2024 8:44	45902	AUBU_T1	11	15	4	0.26	0.25	-0.01	-0.66	-0.65	0	0	0	0	0	0
5/26/2024 8:46	29401	BELT_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
5/26/2024 8:46	29402	BELT_T1	2	1	-1	4.45	8.7	4.25	0	0	0	0	0	0	0	0
5/26/2024 8:47	29402	BELT_T1	2	1	-1	4.45	8.7	4.25	0	0	0	0	0	0	0	0
5/26/2024 8:58	45501	DERR_T2	0	0	0	0	0	0	-0.38	-0.49	2	2	0	1800	1800	0
5/26/2024 9:02	45501	DERR_T2	0	2	2	0	0	0	-0.38	-0.49	2	2	0	1800	1800	0
5/26/2024 9:10	13503	MCMI_T2	0	7	7	0	0.27	0.27	-0.01	-0.9	0	0	0	0	0	0
5/26/2024 9:20	55405	SHER_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
5/26/2024 9:30	10801	CHHI_T1	0	7	7	0	0.51	0.51	-1.14	-1.7	2	3	1	1500	2100	600
5/26/2024 9:30	26603	BROO_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
5/26/2024 9:32	26603	BROO_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
5/26/2024 9:32	10801	CHHI_T1	0	7	7	0	0.51	0.51	-1.14	-1.7	2	3	1	1500	2100	600
5/26/2024 9:35	29402	BELT_T1	2	2	0	4.6	4.7	0.1	0	0	0	0	0	0	0	0
5/26/2024 9:36	21203	ECAR_T1	0	1	1	0	0.1	0.1	0.51	0.51	0	0	0	0	0	0
5/26/2024 9:38	40701	FFLD_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 9:38	40101	HUNT_T2	0	0	0	0	0	0	-0.63	-0.56	0	0	0	0	0	0
5/26/2024 9:38	40702	FFLD_T1	0	0	0	0	0	0	-1.24	-1.18	1	1	0	1200	1200	0
5/26/2024 9:40	17802	GILB_T1	1	2	1	1	0.9	-0.1	0.06	0.08	0	0	0	0	0	0
5/26/2024 9:43	17804	GILB_T2	1	1	0	0.9	1	0.1	-0.51	-0.48	0	0	0	0	0	0
5/26/2024 9:46	13503	MCMI_T2	8	2	-6	0.41	0.7	0.29	-0.88	-0.86	0	0	0	0	0	0
5/26/2024 9:53	66502	SMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
5/26/2024 9:53	66504	SMAN_T2	0	0	0	0	0	0	-3.18	-2.92	2	2	0	2400	2400	0
5/26/2024 9:54	66504	SMAN_T2	0	0	0	0	0	0	-1.59	-1.46	1	1	0	1200	1200	0
5/26/2024 9:54	66502	SMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
5/26/2024 10:00	61302	EARL_T1	0	1	1	0	0.3	0.3	-0.18	-0.05	2	2	0	1800	1800	0
5/26/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 10:00	40505	CRES_T1	3	3	0	4.1	4	-0.1	0.46	0.49	0	0	0	0	0	0
5/26/2024 10:00	67502	WEWI_T2	0	0	0	0	0	0	-1.32	-1.27	1	1	0	900	900	0
5/26/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-1.31	-1.3	1	1	0	900	900	0
5/26/2024 10:00	58403	MORO_T1	0	0	0	0	0	0	-2.1	-2.12	2	2	0	1200	1200	0
5/26/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	-0.72	-0.69	0	0	0	0	0	0
5/26/2024 10:00	52503	PROG_T2	0	0	0	0	0	0	-0.52	-0.53	1	1	0	900	900	0
5/26/2024 10:00	45902	AUBU_T1	5	4	-1	0.4	0.55	0.15	-0.54	-0.54	0	0	0	0	0	0
5/26/2024 10:01	67605	WARW_T1	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
5/26/2024 10:02	67605	WARW_T1	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
5/26/2024 10:03	67603	WARW_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
5/26/2024 10:07	26603	BROO_T1	0	1	1	0	0.7	0.7	0.39	0.39	0	0	0	0	0	0
5/26/2024 10:08	48602	POCA_T1	0	0	0	0	0	0	0.15	0.22	1	1	0	1200	1200	0
5/26/2024 10:09	26603	BROO_T1	0	1	1	0	0.7	0.7	0.39	0.38	0	0	0	0	0	0
5/26/2024 10:12	45501	DERR_T2	0	0	0	0	0	0	-0.69	-0.84	4	4	0	3600	3600	0
5/26/2024 10:13	45501	DERR_T2	0	0	0	0	0	0	-0.34	-0.42	2	2	0	1800	1800	0
5/26/2024 10:14	46801	HEPB_T2	1	2	1	0.1	0.1	0	0.69	0.72	0	0	0	0	0	0
5/26/2024 10:14	17804	GILB_T2	1	1	0	0.4	0.8	0.4	-0.47	-0.47	0	0	0	0	0	0
5/26/2024 10:14	46803	HEPB_T2	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
5/26/2024 10:16	47001	HUGH_T2	0	0	0	0	0	0	-0.71	-0.6	0	0	0	0	0	0
5/26/2024 10:19	47001	HUGH_T2	0	0	0	0	0	0	-0.71	-0.6	0	0	0	0	0	0
5/26/2024 10:32	13503	MCMI_T2	4	7	3	0.55	0.5	-0.05	-0.83	-0.8	0	0	0	0	0	0
5/26/2024 10:33	55002	NEWP_T1	2	2	0	0.4	0.3	-0.1	-0.17	-0.16	0	0	0	0	0	0
5/26/2024 10:33	13503	MCMI_T2	4	7	3	0.55	0.5	-0.05	-0.83	-0.8	0	0	0	0	0	0
5/26/2024 10:34	55002	NEWP_T1	2	2	0	0.4	0.3	-0.1	-0.17	-0.16	0	0	0	0	0	0
5/26/2024 10:34	66502	SMAN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/26/2024 10:35	66504	SMAN_T2	0	0	0	0	0	0	-1.39	-1.33	1	1	0	1200	1200	0
5/26/2024 10:35	24201	PROV_T3	1	1	0	7.1	6.3	-0.8	1.28	1.22	1	1	0	1200	1200	0
5/26/2024 10:35	24205	PROV_T3	0	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0
5/26/2024 10:35	55002	NEWP_T1	2	2	0	0.4	0.3	-0.1	-0.17	-0.16	0	0	0	0	0	0
5/26/2024 10:35	24204	PROV_T3	1	1	0	6.7	6	-0.7	0	0	0	0	0	0	0	0
5/26/2024 10:36	55002	NEWP_T1	2	2	0	0.4	0.3	-0.1	-0.17	-0.16	0	0	0	0	0	0
5/26/2024 10:41	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
5/26/2024 10:54	45902	AUBU_T1	4	3	-1	0.93	1.03	0.1	-0.55	-0.57	0	0	0	0	0	0
5/26/2024 10:55	58003	WCAR_T1	1	1	0	0.7	0.6	-0.1	0	0	1	1	0	600	600	0
5/26/2024 10:56	20402	ASHF_T2	3	8	5	0.67	0.93	0.26	0	0	0	0	0	0	0	0
5/26/2024 10:56	20401	ASHF_T2	1	1	0	0.6	0.5	-0.1	0.04	0.1	0	0	0	0	0	0
5/26/2024 10:56	45902	AUBU_T1	4	3	-1	0.93	1.03	0.1	-1.11	-1.13	0	0	0	0	0	0
5/26/2024 10:57	45902	AUBU_T1	4	3	-1	0.93	1.03	0.1	-1.11	-1.13	0	0	0	0	0	0
5/26/2024 10:57	45901	AUBU_T1	0	0	0	0	0	0	1.05	1.09	0	0	0	0	0	0
5/26/2024 10:57	56803	BENV_T1	1	1	0	2.1	2.8	0.7	0	0	0	0	0	0	0	0
5/26/2024 10:57	48302	ORWI_T2	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
5/26/2024 10:57	20403	ASHF_T2	0	0	0	0	0	0	0.49	0.54	0	0	0	0	0	0
5/26/2024 10:57	56801	BENV_T1	8	3	-5	0.34	0.53	0.19	-0.85	-0.84	2	2	0	1200	1200	0
5/26/2024 10:57	20401	ASHF_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/26/2024 10:57	20402	ASHF_T2	3	8	5	0.67	0.93	0.26	0	0	0	0	0	0	0	0
5/26/2024 10:59	45902	AUBU_T1	4	3	-1	0.93	1.03	0.1	-0.55	-0.57	0	0	0	0	0	0
5/26/2024 10:59	20403	ASHF_T2	0	0	0	0	0	0	0.49	0.54	0	0	0	0	0	0
5/26/2024 10:59	20401	ASHF_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/26/2024 10:59	20402	ASHF_T2	3	8	5	0.67	0.93	0.26	0	0	0	0	0	0	0	0
5/26/2024 11:00	26603	BROO_T1	0	0	0	0	0	0	0.4	0.45	0	0	0	0	0	0
5/26/2024 11:00	21203	ECAR_T1	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
5/26/2024 11:00	56801	BENV_T1	3	4	1	0.47	0.78	0.31	0	0	0	0	0	0	0	0
5/26/2024 11:00	56803	BENV_T1	1	2	1	2.8	5.8	3	-0.03	-0.04	0	0	0	0	0	0
5/26/2024 11:01	20403	ASHF_T2	0	0	0	0	0	0	0.49	0.54	0	0	0	0	0	0
5/26/2024 11:01	20401	ASHF_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
5/26/2024 11:01	20402	ASHF_T2	6	4	-2	1.35	0	-1.35	0	0	0	0	0	0	0	0
5/26/2024 11:02	64204	KINZ_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
5/26/2024 11:02	64203	KINZ_T1	0	0	0	0	0	0	0.46	0.57	0	0	0	0	0	0
5/26/2024 11:04	46801	HEPB_T2	0	0	0	0	0	0	0.8	0.81	0	0	0	0	0	0
5/26/2024 11:04	46803	HEPB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/26/2024 11:12	25503	MADI_T1	68	29	-39	0.22	0.19	-0.03	-0.75	-0.72	0	0	0	0	0	0
5/26/2024 11:12	25501	MADI_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/26/2024 11:12	25502	MADI_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/26/2024 11:20	66703	STRA_T1	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
5/26/2024 11:21	55405	SHER_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
5/26/2024 11:27	58402	MORO_T1	0	0	0	0	0	0	-0.32	-0.33	2	2	0	1500	1500	0
5/26/2024 11:28	58402	MORO_T1	0	0	0	0	0	0	-0.32	-0.33	2	2	0	1500	1500	0
5/26/2024 11:32	58402	MORO_T1	0	0	0	0	0	0	-0.32	-0.33	2	2	0	1500	1500	0
5/26/2024 11:37	45902	AUBU_T1	4	4	0	1.08	0.47	-0.61	-0.48	-0.5	0	0	0	0	0	0
5/26/2024 11:38	45902	AUBU_T1	4	4	0	1.08	0.47	-0.61	-0.5	-0.52	0	0	0	0	0	0
5/26/2024 11:47	67702	WERN_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/26/2024 11:49	29402	BELT_T1	1	131	130	0.9	1.31	0.41	0	0	0	0	0	0	0	0
5/26/2024 11:49	10801	CHHI_T1	4	9	5	0.7	0.7	0	-1.43	-1.38	3	3	0	2100	2100	0
5/26/2024 11:49	67703	WERN_T2	0	0	0	0	0	0	-1.08	-0.96	2	2	0	1800	1800	0
5/26/2024 11:49	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 11:50	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 11:50	29402	BELT_T1	1	131	130	0.9	1.31	0.41	0	0	0	0	0	0	0	0
5/26/2024 11:50	55101	WERT_T1	0	0	0	0	0	0	-1.48	-1.48	2	2	0	1500	1500	0
5/26/2024 11:50	67703	WERN_T2	0	0	0	0	0	0	-0.54	-0.48	1	1	0	900	900	0
5/26/2024 11:50	55103	WERT_T1	1	1	0	4.9	5.3	0.4	0	0	0	0	0	0	0	0
5/26/2024 11:51	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
5/26/2024 11:51	29402	BELT_T1	1	131	130	0.9	1.31	0.41	0	0	0	0	0	0	0	0
5/26/2024 11:52	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 11:52	61304	EARL_T1	0	0	0	0	0	0	-0.46	-0.38	1	1	0	600	600	0
5/26/2024 11:52	29402	BELT_T1	1	131	130	0.9	1.31	0.41	0	0	0	0	0	0	0	0
5/26/2024 11:52	61302	EARL_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/26/2024 11:53	61301	EARL_T1	0	0	0	0	0	0	-0.39	-0.38	1	1	0	900	900	0
5/26/2024 11:53	61302	EARL_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/26/2024 11:54	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
5/26/2024 11:54	61306	EARL_T1	0	0	0	0	0	0	-1.22	-1.2	0	0	0	0	0	0
5/26/2024 11:54	61304	EARL_T1	0	0	0	0	0	0	-0.76	-0.82	2	2	0	1200	1200	0
5/26/2024 11:54	61302	EARL_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/26/2024 11:55	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
5/26/2024 11:55	61803	EELI_T2	0	0	0	0	0	0	0.22	0.31	1	1	0	600	600	0
5/26/2024 11:55	61302	EARL_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/26/2024 11:55	61304	EARL_T1	0	0	0	0	0	0	-0.38	-0.41	1	1	0	600	600	0
5/26/2024 11:56	63302	GREE_T1	0	0	0	0	0	0	-0.11	-1.07	0	0	0	0	0	0
5/26/2024 11:56	63303	GREE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/26/2024 11:56	10102	ALLE_T2	1	1	0	8.1	8.1	0	0	0	0	0	0	0	0	0
5/26/2024 11:56	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
5/26/2024 11:56	63501	HEID_TBK1-2	2	2	0	0.1	0.15	0.05	-0.1	-0.03	1	1	0	900	900	0
5/26/2024 11:56	17802	GILB_T1	0	1	1	0	0.6	0.6	0.3	0.31	0	0	0	0	0	0
5/26/2024 11:56	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 11:58	17802	GILB_T1	0	1	1	0	0.6	0.6	0.3	0.31	0	0	0	0	0	0
5/26/2024 12:06	53901	HALI_T2	0	1	1	0	0.1	0.1	-2.29	-2.19	0	0	0	0	0	0
5/26/2024 12:06	53903	HALI_T2	5	5	0	0.84	0.96	0.12	0	0	0	0	0	0	0	0
5/26/2024 12:06	53902	HALI_T2	1	2	1	4	2.35	-1.65	0	0	0	0	0	0	0	0
5/26/2024 12:07	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/26/2024 12:07	53902	HALI_T2	1	2	1	4	2.35	-1.65	0	0	0	0	0	0	0	0
5/26/2024 12:07	53903	HALI_T2	5	5	0	0.84	0.96	0.12	-0.03	-0.01	0	0	0	0	0	0
5/26/2024 12:09	16302	ALPA_T2	0	0	0	0	0	0	-0.42	-0.37	0	0	0	0	0	0
5/26/2024 12:10	53903	HALI_T2	5	5	0	0.84	0.96	0.12	-0.01	0.01	0	0	0	0	0	0
5/26/2024 12:10	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/26/2024 12:10	53902	HALI_T2	1	2	1	4	2.35	-1.65	0	0	0	0	0	0	0	0
5/26/2024 12:11	13503	MCMI_T2	4	3	-1	0.48	0.27	-0.21	-0.76	-0.74	0	0	0	0	0	0
5/26/2024 12:12	13503	MCMI_T2	4	3	-1	0.48	0.27	-0.21	-0.76	-0.74	0	0	0	0	0	0
5/26/2024 12:17	67002	STHI_T2	0	0	0	0	0	0	0.52	0.56	1	1	0	600	600	0
5/26/2024 12:18	67001	STHI_T2	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
5/26/2024 12:19	65901	SAKR_T2	1	1	0	6.4	7.4	1	-1.07	-0.98	2	2	0	1500	1500	0
5/26/2024 12:26	58402	MORO_T1	1	0	-1	0.1	0	-0.1	-0.26	-0.36	2	2	0	1500	1500	0
5/26/2024 12:32	67603	WARW_T1	0	0	0	0	0	0	0.21	0.25	0	0	0	0	0	0
5/26/2024 12:32	67605	WARW_T1	1	1	0	0.7	1.5	0.8	-0.87	-0.81	0	0	0	0	0	0
5/26/2024 12:34	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 12:34	45402	WBLO_T2	1	1	0	0.3	0.2	-0.1	-1.43	-1.4	1	1	0	900	900	0
5/26/2024 12:34	67605	WARW_T1	1	1	0	0.7	1.5	0.8	-1.74	-1.62	0	0	0	0	0	0
5/26/2024 12:36	58006	WCAR_T2	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
5/26/2024 12:38	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 12:38	58003	WCAR_T1	1	1	0	0.7	0.5	-0.2	0.04	0.05	1	1	0	600	600	0
5/26/2024 12:40	20403	ASHF_T2	1	0	-1	0.2	0	-0.2	0.67	0.74	0	0	0	0	0	0
5/26/2024 12:40	20401	ASHF_T2	2	6	4	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/26/2024 12:40	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 12:41	20401	ASHF_T2	2	6	4	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/26/2024 12:41	20403	ASHF_T2	1	0	-1	0.2	0	-0.2	0.67	0.74	0	0	0	0	0	0
5/26/2024 12:41	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 12:42	60103	COCA_T2	0	0	0	0	0	0	0.51	0.54	1	1	0	900	900	0
5/26/2024 12:43	56801	BENV_T1	8	13	5	0.53	0.97	0.44	-1.15	-1.18	2	2	0	1200	1200	0
5/26/2024 12:44	10801	CHHI_T1	11	7	-4	0.7	0.97	0.27	-2.72	-2.64	6	6	0	4200	4200	0
5/26/2024 12:45	10801	CHHI_T1	3	8	5	0.87	0.67	-0.2	-1.36	-1.32	3	3	0	2100	2100	0
5/26/2024 12:51	44502	HAMI_T2	1	1	0	1.9	1.9	0	-0.6	-0.62	0	0	0	0	0	0
5/26/2024 12:53	44505	HAMI_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
5/26/2024 12:53	44502	HAMI_T2	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
5/26/2024 12:54	44504	HAMI_T2	0	0	0	0	0	0	-1.03	-1.05	0	0	0	0	0	0
5/26/2024 12:54	44502	HAMI_T2	1	1	0	1.9	1.9	0	-0.62	-0.62	0	0	0	0	0	0
5/26/2024 12:55	28805	LAKE_T1	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
5/26/2024 12:55	25402	LAHA_T2	0	0	0	0	0	0	-0.41	-0.46	0	0	0	0	0	0
5/26/2024 12:56	25402	LAHA_T2	0	0	0	0	0	0	-0.41	-0.46	0	0	0	0	0	0
5/26/2024 13:00	42903	MIDD_T2	116	191	75	0.54	0.57	0.03	0	0	0	0	0	0	0	0
5/26/2024 13:00	16302	ALPA_T2	1	2	1	0.2	0.25	0.05	-0.25	-0.28	0	0	0	0	0	0
5/26/2024 13:00	42902	MIDD_T2	110	189	79	0.49	0.55	0.06	-0.98	-0.92	0	0	0	0	0	0
5/26/2024 13:00	42901	MIDD_T2	239	334	95	0.34	0.45	0.11	0	0	0	0	0	0	0	0
5/26/2024 13:02	42901	MIDD_T2	239	334	95	0.34	0.45	0.11	0	0	0	0	0	0	0	0
5/26/2024 13:02	16302	ALPA_T2	1	2	1	0.2	0.25	0.05	-0.25	-0.28	0	0	0	0	0	0
5/26/2024 13:02	42902	MIDD_T2	110	189	79	0.49	0.55	0.06	-0.49	-0.46	0	0	0	0	0	0
5/26/2024 13:02	42903	MIDD_T2	116	191	75	0.54	0.57	0.03	0.25	0.24	0	0	0	0	0	0
5/26/2024 13:03	42902	MIDD_T2	110	189	79	0.49	0.55	0.06	-0.49	-0.46	0	0	0	0	0	0
5/26/2024 13:03	42903	MIDD_T2	116	191	75	0.54	0.57	0.03	0	0	0	0	0	0	0	0
5/26/2024 13:03	16302	ALPA_T2	1	2	1	0.2	0.25	0.05	-0.25	-0.28	0	0	0	0	0	0
5/26/2024 13:03	42901	MIDD_T2	239	334	95	0.34	0.45	0.11	0	0	0	0	0	0	0	0
5/26/2024 13:04	42902	MIDD_T2	110	189	79	0.49	0.55	0.06	-0.98	-0.92	0	0	0	0	0	0
5/26/2024 13:04	42903	MIDD_T2	116	191	75	0.54	0.57	0.03	0	0	0	0	0	0	0	0
5/26/2024 13:04	42901	MIDD_T2	239	334	95	0.34	0.45	0.11	0	0	0	0	0	0	0	0
5/26/2024 13:04	43201	MVIL_T2	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
5/26/2024 13:09	16302	ALPA_T2	1	2	1	0.2	0.25	0.05	-0.28	-0.22	0	0	0	0	0	0
5/26/2024 13:16	67203	TEHI_T1	0	0	0	0	0	0	0.96	0.97	1	1	0	900	900	0
5/26/2024 13:16	67201	TEHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/26/2024 13:17	66504	SMAN_T2	0	0	0	0	0	0	-2.16	-1.95	2	2	0	2400	2400	0
5/26/2024 13:17	66502	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/26/2024 13:17	66505	SMAN_T2	2	23	21	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/26/2024 13:18	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/26/2024 13:18	59101	WALK_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
5/26/2024 13:19	66505	SMAN_T2	2	23	21	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/26/2024 13:19	66504	SMAN_T2	0	0	0	0	0	0	-1.08	-0.98	1	1	0	1200	1200	0
5/26/2024 13:19	58402	MORO_T1	0	0	0	0	0	0	-0.27	-0.23	2	2	0	1500	1500	0
5/26/2024 13:19	66502	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/26/2024 13:22	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/26/2024 13:22	59101	WALK_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
5/26/2024 13:22	58402	MORO_T1	0	0	0	0	0	0	-0.27	-0.23	2	2	0	1500	1500	0
5/26/2024 13:23	59101	WALK_T2	0	0	0	0	0	0	-0.26	-0.19	0	0	0	0	0	0
5/26/2024 13:23	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/26/2024 13:24	43304	WATS_T2	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
5/26/2024 13:25	43301	WATS_T2	0	0	0	0	0	0	-0.37	-0.35	0	1	1	0	900	900
5/26/2024 13:26	58006	WCAR_T2	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
5/26/2024 13:27	43304	WATS_T2	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
5/26/2024 13:28	43301	WATS_T2	0	0	0	0	0	0	-0.37	-0.35	0	1	1	0	900	900
5/26/2024 13:28	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 13:28	43304	WATS_T2	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
5/26/2024 13:28	41602	CLEV_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/26/2024 13:28	40201	BEGA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 13:29	40201	BEGA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 13:29	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 13:29	56801	BENV_T1	12	11	-1	0.77	0.7	-0.07	-2.32	-2.26	4	4	0	2400	2400	0
5/26/2024 13:30	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 13:30	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 13:30	42701	AUGU_T1	80	83	3	1.26	1.15	-0.11	0	0	0	0	0	0	0	0
5/26/2024 13:31	10103	ALLE_T3	11	17	6	0.36	0.73	0.37	0	0	0	0	0	0	0	0
5/26/2024 13:31	10101	ALLE_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/26/2024 13:31	10105	ALLE_T3	26	27	1	2.1	2.2	0.1	0	0	0	0	0	0	0	0
5/26/2024 13:31	10107	ALLE_T3	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 13:31	10205	ALLE_T3	2	2	0	3.7	3.6	-0.1	0	0	0	0	0	0	0	0
5/26/2024 13:31	45402	WBLO_T2	1	1	0	0.5	0.3	-0.2	-1.38	-1.37	1	1	0	900	900	0
5/26/2024 13:31	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 13:31	42701	AUGU_T1	80	83	3	1.26	1.15	-0.11	0	0	0	0	0	0	0	0
5/26/2024 13:31	26601	BROO_T1	0	0	0	0	0	0	-0.11	-0.1	1	1	0	600	600	0
5/26/2024 13:31	10109	ALLE_T3	11	7	-4	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
5/26/2024 13:31	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 13:32	10801	CHHI_T1	13	63	50	0.42	0.6	0.18	-1.25	-1.24	3	3	0	2100	2100	0
5/26/2024 13:32	10805	CHHI_T2	7	11	4	1.61	9.5	7.89	-0.99	-0.99	1	1	0	600	600	0
5/26/2024 13:32	42701	AUGU_T1	80	83	3	1.26	1.15	-0.11	0	0	0	0	0	0	0	0
5/26/2024 13:33	56803	BENV_T1	0	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0
5/26/2024 13:33	56801	BENV_T1	9	11	2	0.67	0.75	0.08	-2.32	-2.26	4	4	0	2400	2400	0
5/26/2024 13:33	41502	FAIR_T2	0	0	0	0	0	0	-1.5	-1.48	1	1	0	900	900	0
5/26/2024 13:33	51604	DUKE_T2	0	1	1	0	0.1	0.1	-2.16	-2.15	1	1	0	900	900	0
5/26/2024 13:34	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 13:34	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 13:43	44505	HAMI_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
5/26/2024 13:43	44502	HAMI_T2	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
5/26/2024 13:44	44502	HAMI_T2	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
5/26/2024 13:44	44505	HAMI_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
5/26/2024 13:52	52403	GRPA_T2	2	2	0	0.25	0.1	-0.15	-0.28	-0.28	0	0	0	0	0	0
5/26/2024 13:52	52402	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 13:54	42901	MIDD_T2	353	294	-59	0.48	0.39	-0.09	0	0	0	0	0	0	0	0
5/26/2024 13:54	42903	MIDD_T2	163	121	-42	0.57	0.63	0.06	0	0	0	0	0	0	0	0
5/26/2024 13:54	42902	MIDD_T2	196	151	-45	0.58	0.52	-0.06	-0.43	-0.4	0	0	0	0	0	0
5/26/2024 14:01	65602	QVIL_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/26/2024 14:01	65604	QVIL_T2	1	1	0	0.6	0.1	-0.5	0.78	0.79	0	0	0	0	0	0
5/26/2024 14:09	67605	WARW_T1	1	1	0	0.9	0.6	-0.3	-0.85	-0.86	0	0	0	0	0	0
5/26/2024 14:10	67605	WARW_T1	1	1	0	0.9	0.6	-0.3	-0.85	-0.86	0	0	0	0	0	0
5/26/2024 14:10	67601	WARW_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
5/26/2024 14:11	67605	WARW_T1	1	1	0	0.9	0.6	-0.3	-0.85	-0.86	0	0	0	0	0	0
5/26/2024 14:13	14404	SSLA_T1	1	1	0	2.4	2	-0.4	0	0	0	0	0	0	0	0
5/26/2024 14:13	14403	SSLA_T1	1	3	2	0.3	0.9	0.6	-0.03	0	2	2	0	1200	1200	0
5/26/2024 14:15	67605	WARW_T1	1	1	0	0.6	0.6	0	-0.85	-0.86	0	0	0	0	0	0
5/26/2024 14:17	58001	WCAR_T1	3	3	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
5/26/2024 14:17	58003	WCAR_T1	1	3	2	0.8	0.33	-0.47	0.05	0.16	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/26/2024 14:20	58003	WCAR_T1	1	3	2	0.8	0.33	-0.47	0	0	0	0	0	0	0	0
5/26/2024 14:20	58001	WCAR_T1	3	3	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
5/26/2024 14:27	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	1	1	0	900	900	0
5/26/2024 14:27	29402	BELT_T1	134	142	8	1.07	1.35	0.28	0	0	0	0	0	0	0	0
5/26/2024 14:31	40101	HUNT_T2	0	0	0	0	0	0	-0.49	-0.37	0	0	0	0	0	0
5/26/2024 14:33	40101	HUNT_T2	0	0	0	0	0	0	-0.49	-0.37	0	0	0	0	0	0
5/26/2024 14:34	11804	FRAN_T1	6	13	7	0.87	1.2	0.33	1.11	1.08	0	0	0	0	0	0
5/26/2024 14:39	12304	LANA_T2	11	9	-2	0.69	0.76	0.07	0	0	0	0	0	0	0	0
5/26/2024 14:39	12302	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 14:39	12305	LANA_T2	6	2	-4	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
5/26/2024 14:39	12301	LANA_T2	0	0	0	0	0	0	-2.02	-2	1	1	0	1200	1200	0
5/26/2024 14:44	42903	MIDD_T2	102	127	25	0.52	0.68	0.16	0	0	0	0	0	0	0	0
5/26/2024 14:44	42902	MIDD_T2	110	126	16	0.5	0.54	0.04	-0.41	-0.39	0	0	0	0	0	0
5/26/2024 14:44	42901	MIDD_T2	204	262	58	0.35	0.37	0.02	0	0	0	0	0	0	0	0
5/26/2024 14:45	12305	LANA_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/26/2024 14:45	12304	LANA_T2	8	6	-2	0.56	0.7	0.14	0	0	0	0	0	0	0	0
5/26/2024 14:45	12301	LANA_T2	0	0	0	0	0	0	-2.02	-2	1	1	0	1200	1200	0
5/26/2024 14:45	12302	LANA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/26/2024 14:46	54701	NEBL_T1	3	0	-3	0.4	0	-0.4	0	0	1	1	0	600	600	0
5/26/2024 14:47	51004	NHAR_T1	1	1	0	7	7.1	0.1	-1.34	-1.32	0	0	0	0	0	0
5/26/2024 14:47	51002	NHAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 14:48	13503	MCMI_T2	3	2	-1	0.33	0.35	0.02	-0.69	-0.67	0	0	0	0	0	0
5/26/2024 14:49	42901	MIDD_T2	261	188	-73	0.37	0.29	-0.08	0	0	0	0	0	0	0	0
5/26/2024 14:49	42902	MIDD_T2	125	103	-22	0.54	0.51	-0.03	-0.41	-0.39	0	0	0	0	0	0
5/26/2024 14:49	42903	MIDD_T2	127	93	-34	0.68	0.54	-0.14	0	0	0	0	0	0	0	0
5/26/2024 14:50	67605	WARW_T1	1	1	0	0.5	0.3	-0.2	-0.83	-0.81	0	0	0	0	0	0
5/26/2024 14:51	67605	WARW_T1	1	1	0	0.5	0.3	-0.2	-0.83	-0.81	0	0	0	0	0	0
5/26/2024 14:52	52403	GRPA_T2	1	8	7	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/26/2024 14:52	52404	GRPA_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
5/26/2024 14:52	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 14:52	52402	GRPA_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 14:54	13606	RICH_T2	3	15	12	2.9	1.12	-1.78	1.27	1.29	0	0	0	0	0	0
5/26/2024 14:58	65604	QVIL_T2	0	1	1	0	0	0	0.18	0.18	0	0	0	0	0	0
5/26/2024 14:58	65602	QVIL_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
5/26/2024 14:59	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 14:59	55408	SHER_T2	2	1	-1	0.65	1.4	0.75	-0.56	-0.53	1	1	0	1200	1200	0
5/26/2024 14:59	65604	QVIL_T2	0	1	1	0	0	0	0.36	0.36	0	0	0	0	0	0
5/26/2024 14:59	52402	GRPA_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 14:59	52403	GRPA_T2	1	8	7	0.5	0.7	0.2	-0.25	-0.24	0	0	0	0	0	0
5/26/2024 14:59	65602	QVIL_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
5/26/2024 15:02	55408	SHER_T2	1	1	0	1.4	0.9	-0.5	-0.56	-0.53	1	1	0	1200	1200	0
5/26/2024 15:03	64101	REFR_T1	11	11	0	3.11	3.37	0.26	0.45	0.43	0	0	0	0	0	0
5/26/2024 15:24	55101	WERT_T1	0	0	0	0	0	0	-2.13	-2.04	3	3	0	2400	2400	0
5/26/2024 15:24	55103	WERT_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
5/26/2024 15:31	67605	WARW_T1	1	0	-1	0.3	0	-0.3	-0.93	-0.92	0	0	0	0	0	0
5/26/2024 15:32	67605	WARW_T1	1	0	-1	0.3	0	-0.3	-0.93	-0.92	0	0	0	0	0	0
5/26/2024 15:38	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 15:49	63804	HEMP_T1	1	1	0	6.1	6.3	0.2	-1.05	-1.03	0	0	0	0	0	0
5/26/2024 15:52	10805	CHHI_T2	31	51	20	1.16	1.19	0.03	-0.78	-0.74	1	1	0	600	600	0
5/26/2024 15:54	63404	HONY_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/26/2024 15:54	63401	HONY_T1	0	0	0	0	0	0	0.2	0.24	0	0	0	0	0	0
5/26/2024 16:16	42901	MIDD_T2	326	287	-39	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
5/26/2024 16:16	42902	MIDD_T2	143	131	-12	0.56	0.51	-0.05	-1.1	-0.99	0	0	0	0	0	0
5/26/2024 16:16	42903	MIDD_T2	118	93	-25	0.58	0.48	-0.1	0	0	0	0	0	0	0	0
5/26/2024 16:26	57403	SPAN_T1	1	5	4	1.2	0	-1.2	0	0	0	0	0	0	0	0
5/26/2024 16:26	57401	SPAN_T1	0	0	0	0	0	0	-1.04	-1	1	1	0	600	600	0
5/26/2024 16:36	43304	WATS_T2	2	4	2	0.85	0.15	-0.7	-0.69	-0.67	0	0	0	0	0	0
5/26/2024 16:36	43301	WATS_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/26/2024 16:38	45902	AUBU_T1	1	1	0	1	0.9	-0.1	-1	-1.02	1	1	0	600	600	0
5/26/2024 16:39	43304	WATS_T2	2	4	2	0.85	0.15	-0.7	-0.67	-0.65	0	0	0	0	0	0
5/26/2024 16:39	43301	WATS_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/26/2024 16:42	58006	WCAR_T2	0	0	0	0	0	0	-0.5	-0.48	0	0	0	0	0	0
5/26/2024 16:46	44801	EDAN_T2	8	11	3	0.84	0.68	-0.16	0.78	0.76	0	0	0	0	0	0
5/26/2024 16:53	17804	GILB_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
5/26/2024 16:53	17803	GILB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/26/2024 16:53	17805	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 17:04	65001	NEFF_T2	0	0	0	0	0	0	-0.39	-0.36	1	1	0	1200	1200	0
5/26/2024 17:05	16301	ALPA_T1	0	0	0	0	0	0	0.74	0.74	0	0	0	0	0	0
5/26/2024 17:07	46504	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 17:07	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 17:07	46505	LOHA_T1	0	0	0	0	0	0	-0.28	-0.24	1	1	0	600	600	0
5/26/2024 17:12	65205	PRIN_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
5/26/2024 17:14	42902	MIDD_T2	91	78	-13	0.47	0.46	-0.01	-0.33	-0.32	0	0	0	0	0	0
5/26/2024 17:14	42903	MIDD_T2	48	37	-11	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
5/26/2024 17:14	42901	MIDD_T2	173	144	-29	0.28	0.3	0.02	0	0	0	0	0	0	0	0
5/26/2024 17:40	14404	SSLA_T1	1	1	0	3.1	3.2	0.1	-0.01	-0.05	1	1	0	900	900	0
5/26/2024 17:40	14403	SSLA_T1	1	7	6	0.3	0	-0.3	0.13	0.07	2	2	0	1200	1200	0
5/26/2024 17:40	55001	NEWP_T1	2	1	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
5/26/2024 17:40	52401	GRPA_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/26/2024 17:40	13905	SEID_T1	0	0	0	0	0	0	-0.22	-0.24	1	1	0	1200	1200	0
5/26/2024 17:40	13903	SEID_T1	16	16	0	0.71	1.04	0.33	0	0	0	0	0	0	0	0
5/26/2024 17:40	42201	SHEN_T2	0	0	0	0	0	0	2.44	2.44	0	0	0	0	0	0
5/26/2024 17:40	50701	SMEC_T1	0	0	0	0	0	0	-1.94	-2	2	2	0	2100	2100	0
5/26/2024 17:40	53601	DALM_T2	1	2	1	0.1	0.4	0.3	0.08	-0.01	0	0	0	0	0	0
5/26/2024 17:40	11507	FREE_T2	9	10	1	0.46	0.3	-0.16	0.16	0.28	0	0	0	0	0	0
5/26/2024 17:40	10707	CATA_T2	0	0	0	0	0	0	0.53	0.45	0	0	0	0	0	0
5/26/2024 17:40	52403	GRPA_T2	7	12	5	1.73	1.74	0.01	-0.51	-0.54	0	0	0	0	0	0
5/26/2024 17:40	55002	NEWP_T1	2	1	-1	0.3	0.3	0	0.04	0	0	0	0	0	0	0
5/26/2024 17:40	52402	GRPA_T2	6	4	-2	0.85	0	-0.85	0	0	0	0	0	0	0	0
5/26/2024 17:40	13904	SEID_T1	12	3	-9	0.28	0	-0.28	0	0	0	0	0	0	0	0
5/26/2024 17:40	13902	SEID_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
5/26/2024 17:41	14404	SSLA_T1	1	1	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
5/26/2024 17:41	14403	SSLA_T1	1	7	6	0.3	0	-0.3	0.13	0.07	2	2	0	1200	1200	0
5/26/2024 17:50	48302	ORWI_T2	0	2	2	0	0.4	0.4	-0.2	-0.19	0	0	0	0	0	0
5/26/2024 17:52	41602	CLEV_T1	32	14	-18	0.46	0.44	-0.02	0	0	1	1	0	600	600	0
5/26/2024 17:52	45902	AUBU_T1	0	0	0	0	0	0	-1.05	-1.02	1	1	0	600	600	0
5/26/2024 17:53	44801	EDAN_T2	19	27	8	0.69	0.94	0.25	0.78	0.79	0	0	0	0	0	0
5/26/2024 17:53	63304	GREE_T1	0	0	0	0	0	0	-3.24	-3.28	1	1	0	1200	1200	0
5/26/2024 17:55	20603	GRWO_T2	1	0	-1	0.2	0	-0.2	-0.39	-0.38	1	1	0	900	900	0
5/26/2024 17:55	63304	GREE_T1	0	0	0	0	0	0	-3.24	-3.28	1	1	0	1200	1200	0
5/26/2024 17:56	12305	LANA_T2	5	1	-4	0.78	0.3	-0.48	0	0	0	0	0	0	0	0
5/26/2024 17:56	12304	LANA_T2	43	56	13	0.45	0.45	0	0	0	0	0	0	0	0	0
5/26/2024 17:56	12302	LANA_T2	1	1	0	0.2	0	-0.2	-1.65	-1.67	3	3	0	2700	2700	0
5/26/2024 17:58	51004	NHAR_T1	1	1	0	7.1	6.9	-0.2	-1.27	-1.26	0	0	0	0	0	0
5/26/2024 18:00	51004	NHAR_T1	1	1	0	7.2	6.6	-0.6	-1.27	-1.26	0	0	0	0	0	0
5/26/2024 18:00	51002	NHAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 18:04	58006	WCAR_T2	0	0	0	0	0	0	-0.47	-0.51	0	0	0	0	0	0
5/26/2024 18:06	46206	DANV_T2	13	13	0	4.52	5.18	0.66	0	0	0	0	0	0	0	0
5/26/2024 18:06	46203	DANV_T2	0	0	0	0	0	0	-1.55	-1.55	0	0	0	0	0	0
5/26/2024 18:07	46203	DANV_T2	0	0	0	0	0	0	-3.1	-3.1	0	0	0	0	0	0
5/26/2024 18:07	61101	BERK_T5	0	0	0	0	0	0	-1.32	-1.26	0	0	0	0	0	0
5/26/2024 18:07	46206	DANV_T2	13	13	0	4.52	5.18	0.66	0	0	0	0	0	0	0	0
5/26/2024 18:08	46203	DANV_T2	0	0	0	0	0	0	-1.55	-1.55	0	0	0	0	0	0
5/26/2024 18:08	46206	DANV_T2	13	13	0	4.52	5.18	0.66	0	0	0	0	0	0	0	0
5/26/2024 18:09	46206	DANV_T2	13	13	0	4.52	5.18	0.66	0	0	0	0	0	0	0	0
5/26/2024 18:09	46203	DANV_T2	0	0	0	0	0	0	-1.55	-1.55	0	0	0	0	0	0
5/26/2024 18:13	12006	HATF_T1	0	0	0	0	0	0	1.31	1.22	0	0	0	0	0	0
5/26/2024 18:13	12002	HATF_T1	1	1	0	1.9	0.7	-1.2	0	0	0	0	0	0	0	0
5/26/2024 18:17	55001	NEWP_T1	0	2	2	0	0	0	0.24	0.27	0	0	0	0	0	0
5/26/2024 18:17	55002	NEWP_T1	2	2	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/26/2024 18:19	57106	SPHI_T2	2	3	1	0.15	0.7	0.55	0	0	0	0	0	0	0	0
5/26/2024 18:19	55405	SHER_T1	0	0	0	0	0	0	0.13	0.08	0	0	0	0	0	0
5/26/2024 18:19	57101	SPHI_T2	0	6	6	0	0.45	0.45	0	0	0	0	0	0	0	0
5/26/2024 18:19	57104	SPHI_T2	1	1	0	1.2	1.1	-0.1	-1	-1.01	1	1	0	900	900	0
5/26/2024 18:21	55002	NEWP_T1	2	2	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/26/2024 18:21	55001	NEWP_T1	0	2	2	0	0	0	0.24	0.27	0	0	0	0	0	0
5/26/2024 18:21	57103	SPHI_T2	0	0	0	0	0	0	-0.36	-0.37	1	1	0	600	600	0
5/26/2024 18:21	57104	SPHI_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
5/26/2024 18:21	57101	SPHI_T2	0	6	6	0	0.45	0.45	0	0	0	0	0	0	0	0
5/26/2024 18:21	57106	SPHI_T2	2	3	1	0.15	0.7	0.55	0	0	0	0	0	0	0	0
5/26/2024 18:32	61505	EPET_T1	0	0	0	0	0	0	1.43	1.43	0	0	0	0	0	0
5/26/2024 18:35	17802	GILB_T1	0	0	0	0	0	0	0.34	0.3	0	0	0	0	0	0
5/26/2024 18:43	13501	MCMI_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
5/26/2024 18:50	29402	BELT_T1	166	144	-22	1.42	1.47	0.05	0	0	0	0	0	0	0	0
5/26/2024 18:50	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 18:52	67702	WERN_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
5/26/2024 18:56	46206	DANV_T2	13	13	0	5.34	5.72	0.38	0	0	0	0	0	0	0	0
5/26/2024 18:56	46203	DANV_T2	0	0	0	0	0	0	-1.62	-1.67	0	0	0	0	0	0
5/26/2024 18:59	46206	DANV_T2	13	13	0	5.34	5.72	0.38	0	0	0	0	0	0	0	0
5/26/2024 18:59	46203	DANV_T2	0	0	0	0	0	0	-1.62	-1.67	0	0	0	0	0	0
5/26/2024 19:01	64701	UTI_T1	9	3	-6	0.74	0.25	-0.49	-0.38	-0.35	1	1	0	900	900	0
5/26/2024 19:01	52403	GRPA_T2	8	9	1	1.09	1.05	-0.04	-0.45	-0.49	0	0	0	0	0	0
5/26/2024 19:01	52402	GRPA_T2	2	3	1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
5/26/2024 19:13	51505	SWAT_T2	0	0	0	0	0	0	0.36	0.29	0	0	0	0	0	0
5/26/2024 19:16	50502	MECH_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
5/26/2024 19:16	50501	MECH_T1	3	0	-3	0.23	0	-0.23	-2.07	-0.8	0	0	0	0	0	0
5/26/2024 19:17	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 19:17	10102	ALLE_T2	1	1	0	8	7.8	-0.2	0	0	0	0	0	0	0	0
5/26/2024 19:19	10805	CHHI_T2	9	11	2	1.89	1.36	-0.53	-0.8	-0.9	1	1	0	600	600	0
5/26/2024 19:31	44801	EDAN_T2	2	2	0	1.2	1.15	-0.05	0.76	0.72	0	0	0	0	0	0
5/26/2024 19:31	46504	LOHA_T1	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
5/26/2024 19:31	46506	LOHA_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/26/2024 19:31	46502	LOHA_T1	0	0	0	0	0	0	-1.11	-1.09	1	1	0	1200	1200	0
5/26/2024 19:32	12601	MACA_T1	0	0	0	0	0	0	1.41	1.38	0	0	0	0	0	0
5/26/2024 19:32	12301	LANA_T2	0	0	0	0	0	0	-1	-1.04	1	1	0	1200	1200	0
5/26/2024 19:32	12602	MACA_T1	3	0	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
5/26/2024 19:32	12304	LANA_T2	10	10	0	0.51	0.4	-0.11	0	0	0	0	0	0	0	0
5/26/2024 19:32	12606	MACA_T1	1	6	5	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/26/2024 19:32	12305	LANA_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
5/26/2024 19:56	53903	HALI_T2	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
5/26/2024 19:56	53901	HALI_T2	0	1	1	0	0.1	0.1	-1.01	-1.07	0	0	0	0	0	0
5/26/2024 19:56	53902	HALI_T2	1	1	0	4.6	5.3	0.7	0	0	0	0	0	0	0	0
5/26/2024 19:57	55002	NEWP_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/26/2024 19:57	55001	NEWP_T1	0	1	1	0	0	0	0.08	0.06	0	0	0	0	0	0
5/26/2024 20:12	66502	SMAN_T2	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
5/26/2024 20:20	47001	HUGH_T2	0	0	0	0	0	0	-1.43	-1.4	1	1	0	900	900	0
5/26/2024 20:36	13503	MCMI_T2	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
5/26/2024 20:58	58003	WCAR_T1	1	1	0	1.4	1.3	-0.1	0.8	0.81	0	0	0	0	0	0
5/26/2024 20:58	58001	WCAR_T1	4	4	0	0.45	0.85	0.4	0	0	0	0	0	0	0	0
5/26/2024 21:02	20403	ASHF_T2	0	0	0	0	0	0	0.61	0.55	0	0	0	0	0	0
5/26/2024 21:04	20403	ASHF_T2	0	0	0	0	0	0	0.61	0.55	0	0	0	0	0	0
5/26/2024 21:05	46803	HEPB_T2	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
5/26/2024 21:05	46801	HEPB_T2	2	2	0	0.2	0.3	0.1	0.91	0.87	0	0	0	0	0	0
5/26/2024 21:08	46801	HEPB_T2	2	2	0	0.2	0.3	0.1	0.91	0.87	0	0	0	0	0	0
5/26/2024 21:23	66703	STRA_T1	0	2	2	0	0.15	0.15	-0.45	-0.44	0	0	0	0	0	0
5/26/2024 21:47	45902	AUBU_T1	0	1	1	0	0	0	-0.62	-0.63	0	0	0	0	0	0
5/26/2024 21:54	29402	BELT_T1	20	51	31	0.17	0.45	0.28	0	0	0	0	0	0	0	0
5/26/2024 21:56	61304	EARL_T1	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
5/26/2024 21:57	61304	EARL_T1	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
5/26/2024 21:58	61304	EARL_T1	0	0	0	0	0	0	-1.04	-1.04	2	2	0	1200	1200	0
5/26/2024 22:03	12302	LANA_T2	0	0	0	0	0	0	-2.26	-2.29	3	3	0	2700	2700	0
5/26/2024 22:09	12301	LANA_T2	0	0	0	0	0	0	-1.06	-1.11	1	1	0	1200	1200	0
5/26/2024 22:09	61101	BERK_T5	0	0	0	0	0	0	-1.37	-1.4	0	0	0	0	0	0
5/26/2024 22:10	16302	ALPA_T2	0	0	0	0	0	0	2.76	2.58	0	0	0	0	0	0
5/26/2024 22:11	10801	CHHI_T1	2	0	-2	0.65	0	-0.65	-1.49	-1.53	3	3	0	2100	2100	0
5/26/2024 22:12	13501	MCMI_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
5/26/2024 22:13	51003	NHAR_T1	3	4	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:13	51002	NHAR_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:13	51004	NHAR_T1	1	1	0	6.1	6	-0.1	-1.51	-1.5	0	0	0	0	0	0
5/26/2024 22:13	67605	WARW_T1	0	0	0	0	0	0	-1.17	-1.2	0	0	0	0	0	0
5/26/2024 22:14	65003	NEFF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/26/2024 22:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 22:14	16301	ALPA_T1	1	1	0	0.2	0.4	0.2	0.18	0.12	0	0	0	0	0	0
5/26/2024 22:14	65604	QVIL_T2	0	0	0	0	0	0	0.58	0.49	0	0	0	0	0	0
5/26/2024 22:14	65001	NEFF_T2	0	0	0	0	0	0	-0.92	-0.92	1	1	0	1200	1200	0
5/26/2024 22:15	10204	ALLE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/26/2024 22:15	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 22:15	65604	QVIL_T2	0	0	0	0	0	0	0.58	0.49	0	0	0	0	0	0
5/26/2024 22:15	10102	ALLE_T2	1	1	0	8.1	7.8	-0.3	0	0	0	0	0	0	0	0
5/26/2024 22:15	10805	CHHI_T2	1	1	0	8.2	8.1	-0.1	-1.15	-1.19	1	1	0	600	600	0
5/26/2024 22:15	67603	WARW_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
5/26/2024 22:15	53901	HALI_T2	1	1	0	0.2	0.2	0	-1.2	-1.18	0	0	0	0	0	0
5/26/2024 22:15	53902	HALI_T2	1	1	0	4.9	5	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:15	53903	HALI_T2	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/26/2024 22:16	45902	AUBU_T1	1	9	8	0	0.21	0.21	-0.65	-0.66	0	0	0	0	0	0
5/26/2024 22:16	29402	BELT_T1	35	21	-14	0.6	0.68	0.08	0	0	0	0	0	0	0	0
5/26/2024 22:16	64701	LITI_T1	0	0	0	0	0	0	-0.55	0.34	1	0	-1	900	0	-900
5/26/2024 22:16	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 22:16	13503	MCMI_T2	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
5/26/2024 22:17	53902	HALI_T2	1	1	0	4.9	5	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:17	17802	GILB_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
5/26/2024 22:17	53901	HALI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/26/2024 22:17	29402	BELT_T1	35	21	-14	0.6	0.68	0.08	0	0	0	0	0	0	0	0
5/26/2024 22:17	61301	EARL_T1	0	0	0	0	0	0	-0.38	-0.38	1	1	0	900	900	0
5/26/2024 22:17	63304	GREE_T1	33	35	2	0.18	0.17	-0.01	-2.65	-2.68	0	0	0	0	0	0
5/26/2024 22:17	63305	GREE_T1	3	2	-1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
5/26/2024 22:17	67605	WARW_T1	0	0	0	0	0	0	-1.17	-1.2	0	0	0	0	0	0
5/26/2024 22:17	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 22:17	53903	HALI_T2	2	2	0	0.8	0.6	-0.2	-0.14	-0.15	0	0	0	0	0	0
5/26/2024 22:18	20401	ASHF_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
5/26/2024 22:18	40101	HUNT_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
5/26/2024 22:18	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 22:18	45902	AUBU_T1	1	9	8	0	0.21	0.21	-1.3	-1.32	0	0	0	0	0	0
5/26/2024 22:18	53903	HALI_T2	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/26/2024 22:18	67605	WARW_T1	0	0	0	0	0	0	-1.17	-1.2	0	0	0	0	0	0
5/26/2024 22:18	53902	HALI_T2	1	1	0	4.9	5	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:18	53901	HALI_T2	1	1	0	0.2	0.2	0	-1.2	-1.18	0	0	0	0	0	0
5/26/2024 22:18	44505	HAMI_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
5/26/2024 22:18	63804	HEMP_T1	1	1	0	5.1	5.2	0.1	-1.31	-1.32	0	0	0	0	0	0
5/26/2024 22:18	61505	EPET_T1	0	0	0	0	0	0	0.96	0.9	0	0	0	0	0	0
5/26/2024 22:18	44501	HAMI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:18	20403	ASHF_T2	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
5/26/2024 22:18	44502	HAMI_T2	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
5/26/2024 22:18	66504	SMAN_T2	0	0	0	0	0	0	-2.4	-2.57	2	2	0	2400	2400	0
5/26/2024 22:19	42902	MIDD_T2	157	202	45	0.61	0.63	0.02	-0.54	-0.55	0	0	0	0	0	0
5/26/2024 22:19	45902	AUBU_T1	1	9	8	0	0.21	0.21	-1.94	-1.98	0	0	0	0	0	0
5/26/2024 22:19	42901	MIDD_T2	397	435	38	0.56	0.65	0.09	0	0	0	0	0	0	0	0
5/26/2024 22:19	66504	SMAN_T2	0	0	0	0	0	0	-1.2	-1.29	1	1	0	1200	1200	0
5/26/2024 22:19	53902	HALI_T2	1	1	0	4.9	5	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:19	42903	MIDD_T2	61	99	38	0.41	0.45	0.04	0	0	0	0	0	0	0	0
5/26/2024 22:19	12006	HATF_T1	0	0	0	0	0	0	0.79	0.66	0	0	0	0	0	0
5/26/2024 22:19	55002	NEWP_T1	3	5	2	0.6	0.52	-0.08	-0.14	-0.16	0	0	0	0	0	0
5/26/2024 22:19	53903	HALI_T2	2	2	0	0.8	0.6	-0.2	-0.14	-0.15	0	0	0	0	0	0
5/26/2024 22:19	53901	HALI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/26/2024 22:19	12005	HATF_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
5/26/2024 22:19	44501	HAMI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:19	44502	HAMI_T2	1	1	0	3.2	3.4	0.2	-0.72	-0.71	0	0	0	0	0	0
5/26/2024 22:19	48302	ORWI_T2	2	2	0	1.45	1.45	0	0	0	0	0	0	0	0	0
5/26/2024 22:20	67605	WARW_T1	0	0	0	0	0	0	-1.17	-1.2	0	0	0	0	0	0
5/26/2024 22:20	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 22:20	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 22:20	17802	GILB_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
5/26/2024 22:20	45901	AUBU_T1	0	0	0	0	0	0	1.09	1.1	0	0	0	0	0	0
5/26/2024 22:20	65604	QVIL_T2	0	0	0	0	0	0	0.58	0.49	0	0	0	0	0	0
5/26/2024 22:20	45902	AUBU_T1	1	9	8	0	0.21	0.21	-0.65	-0.66	0	0	0	0	0	0
5/26/2024 22:20	29402	BELT_T1	35	21	-14	0.6	0.68	0.08	0	0	0	0	0	0	0	0
5/26/2024 22:20	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 22:20	56801	BENV_T1	13	8	-5	0.86	1.5	0.64	-1.33	-1.33	2	2	0	1200	1200	0
5/26/2024 22:20	13504	MCMI_T2	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
5/26/2024 22:20	45501	DERR_T2	1	1	0	0.1	0.3	0.2	-0.61	-0.65	2	2	0	1800	1800	0
5/26/2024 22:21	13503	MCMI_T2	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
5/26/2024 22:21	65205	PRIN_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
5/26/2024 22:21	45402	WBLO_T2	1	1	0	0.8	1.2	0.4	-1.53	-1.57	1	1	0	900	900	0
5/26/2024 22:21	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 22:21	16302	ALPA_T2	0	0	0	0	0	0	0.92	0.86	0	0	0	0	0	0
5/26/2024 22:21	17802	GILB_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
5/26/2024 22:21	67002	STHI_T2	0	0	0	0	0	0	1.14	1.07	0	0	0	0	0	0
5/26/2024 22:21	55002	NEWP_T1	3	5	2	0.6	0.52	-0.08	-0.14	-0.16	0	0	0	0	0	0
5/26/2024 22:22	45501	DERR_T2	1	1	0	0.1	0.3	0.2	-0.61	-0.65	2	2	0	1800	1800	0
5/26/2024 22:22	20403	BROO_T1	0	0	0	0	0	0	0.49	0.44	0	0	0	0	0	0
5/26/2024 22:22	26601	BROO_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/26/2024 22:22	42701	AUGU_T1	62	67	5	0.67	0.62	-0.05	0	0	0	0	0	0	0	0
5/26/2024 22:22	58006	WCAR_T2	0	0	0	0	0	0	-1.4	-1.4	0	0	0	0	0	0
5/26/2024 22:22	45902	AUBU_T1	1	9	8	0	0.21	0.21	-0.65	-0.66	0	0	0	0	0	0
5/26/2024 22:22	10801	CHHI_T1	0	0	0	0	0	0	-1.49	-1.53	3	3	0	2100	2100	0
5/26/2024 22:22	67203	TEHI_T1	0	0	0	0	0	0	0.98	0.95	1	1	0	900	900	0
5/26/2024 22:22	51505	SWAT_T2	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
5/26/2024 22:22	63401	HONY_T1	0	0	0	0	0	0	0.27	0.12	0	0	0	0	0	0
5/26/2024 22:23	42902	MIDD_T2	157	202	45	0.61	0.63	0.02	-0.54	-0.55	0	0	0	0	0	0
5/26/2024 22:23	55002	NEWP_T1	3	5	2	0.6	0.52	-0.08	0	0	0	0	0	0	0	0
5/26/2024 22:23	53903	HALI_T2	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/26/2024 22:23	51004	NHAR_T1	1	1	0	6	6.1	0.1	-1.5	-1.48	0	0	0	0	0	0
5/26/2024 22:23	53902	HALI_T2	1	1	0	4.9	5	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:23	42903	MIDD_T2	61	99	38	0.41	0.45	0.04	0	0	0	0	0	0	0	0
5/26/2024 22:23	53901	HALI_T2	1	1	0	0.2	0.2	0	-1.18	-1.21	0	0	0	0	0	0
5/26/2024 22:23	55001	NEWP_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
5/26/2024 22:23	20603	GRWO_T2	4	2	-2	0.1	0.1	0	0.5	0.5	0	0	0	0	0	0
5/26/2024 22:23	51003	NHAR_T1	4	4	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
5/26/2024 22:23	48302	ORWI_T2	2	2	0	1.45	1.45	0	-0.49	-0.54	0	0	0	0	0	0
5/26/2024 22:23	42901	MIDD_T2	397	435	38	0.56	0.65	0.09	0	0	0	0	0	0	0	0
5/26/2024 22:23	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
5/26/2024 22:23	51002	NHAR_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
5/26/2024 22:23	55408	SHER_T2	1	1	0	0.8	1	0.2	-0.79	-0.77	1	1	0	1200	1200	0
5/26/2024 22:23	25503	MADI_T1	75	99	24	0.26	0.26	0	-0.8	-0.84	0	0	0	0	0	0
5/26/2024 22:23	58402	MORO_T1	0	0	0	0	0	0	-0.47	-0.47	2	2	0	1500	1500	0
5/26/2024 22:24	42901	MIDD_T2	397	435	38	0.56	0.65	0.09	0	0	0	0	0	0	0	0
5/26/2024 22:24	52403	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 22:24	46504	LOHA_T1	2	2	0	0.65	1.25	0.6	0	0	0	0	0	0	0	0
5/26/2024 22:24	24205	PROV_T3	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:24	55002	NEWP_T1	3	5	2	0.6	0.52	-0.08	0	0	0	0	0	0	0	0
5/26/2024 22:24	42902	MIDD_T2	157	202	45	0.61	0.63	0.02	0	0	0	0	0	0	0	0
5/26/2024 22:24	10805	CHHI_T2	1	1	0	8.2	8.1	-0.1	-1.19	-1.25	1	1	0	600	600	0
5/26/2024 22:24	20403	ASHF_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
5/26/2024 22:24	29402	BELT_T1	35	21	-14	0.6	0.68	0.08	0	0	0	0	0	0	0	0
5/26/2024 22:24	46203	DANV_T2	0	0	0	0	0	0	-1.82	-1.83	0	0	0	0	0	0
5/26/2024 22:24	52402	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/26/2024 22:24	24201	PROV_T3	1	1	0	6.7	6.5	-0.2	-1.17	-1.18	1	1	0	1200	1200	0
5/26/2024 22:24	17804	GILB_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
5/26/2024 22:24	45902	AUBU_T1	1	9	8	0	0.21	0.21	-0.66	-0.7	0	0	0	0	0	0
5/26/2024 22:24	58402	MORO_T1	0	0	0	0	0	0	-0.47	-0.47	2	2	0	1500	1500	0
5/26/2024 22:24	59101	WALK_T2	0	0	0	0	0	0	-1.02	-1.1	0	0	0	0	0	0
5/26/2024 22:24	42903	MIDD_T2	61	99	38	0.41	0.45	0.04	-0.22	-0.2	0	0	0	0	0	0
5/26/2024 22:24	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/26/2024 22:24	55001	NEWP_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
5/26/2024 22:24	17805	GILB_T2	30	0	-30	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/26/2024 22:24	55101	WERT_T1	0	0	0	0	0	0	-1.68	-1.74	2	2	0	1500	1500	0
5/26/2024 22:24	46506	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/26/2024 22:24	64101	REFR_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
5/26/2024 22:24	52404	GRPA_T2	0	0	0	0	0	0	-0.36	-0.32	0	0	0	0	0	0
5/26/2024 22:24	46206	DANV_T2	13	13	0	6.17	6.27	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:24	52401	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/26/2024 22:24	56801	BENV_T1	13	8	-5	0.86	1.5	0.64	-2.66	-2.72	4	4	0	2400	2400	0
5/26/2024 22:24	46502	LOHA_T1	0	0	0	0	0	0	-1.22	-1.24	1	1	0	1200	1200	0
5/26/2024 22:24	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 22:24	24204	PROV_T3	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
5/26/2024 22:25	43304	WATS_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/26/2024 22:25	44502	HAMI_T2	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
5/26/2024 22:25	52402	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/26/2024 22:25	52403	GRPA_T2	0	2	2	0	0	0	-0.42	-0.42	0	0	0	0	0	0
5/26/2024 22:25	52401	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/26/2024 22:25	47002	HUGH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:25	43301	WATS_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
5/26/2024 22:25	55408	SHER_T2	1	1	0	0.8	1	0.2	-0.79	-0.77	1	1	0	1200	1200	0
5/26/2024 22:25	47001	HUGH_T2	0	0	0	0	0	0	-1.73	-1.67	1	1	0	900	900	0
5/26/2024 22:25	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/26/2024 22:25	21203	ECAR_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
5/26/2024 22:25	10801	OHHI_T1	0	0	0	0	0	0	-1.53	-1.56	3	3	0	2100	2100	0
5/26/2024 22:25	44501	HAMI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:25	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 22:25	44504	HAMI_T2	0	0	0	0	0	0	-1.09	-1.05	0	0	0	0	0	0
5/26/2024 22:26	14403	SSLA_T1	0	1	1	0	0.6	0.6	0.25	0.22	1	1	0	600	600	0
5/26/2024 22:26	10801	OHHI_T1	0	0	0	0	0	0	-1.53	-1.56	3	3	0	2100	2100	0
5/26/2024 22:26	43201	MVIL_T2	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
5/26/2024 22:26	42902	MIDD_T2	157	202	45	0.61	0.63	0.02	-1.1	-1.08	0	0	0	0	0	0
5/26/2024 22:26	26601	BROO_T1	1	0	-1	0.3	0	-0.3	-0.14	-0.13	1	1	0	600	600	0
5/26/2024 22:26	57101	SPHI_T2	6	6	0	0.67	0.37	-0.3	0	0	0	0	0	0	0	0
5/26/2024 22:26	42901	MIDD_T2	397	435	38	0.56	0.65	0.09	0	0	0	0	0	0	0	0
5/26/2024 22:26	42903	MIDD_T2	61	99	38	0.41	0.45	0.04	0	0	0	0	0	0	0	0
5/26/2024 22:26	46206	DANV_T2	13	13	0	6.17	6.27	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:26	14404	SSLA_T1	1	1	0	3.9	4	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:26	55405	SHER_T1	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
5/26/2024 22:26	29401	BELT_T1	0	0	0	0	0	0	0	2	2	2	0	1800	1800	0
5/26/2024 22:26	57104	SPHI_T2	1	1	0	0.2	0.5	0.3	-1.55	-1.61	1	1	0	900	900	0
5/26/2024 22:26	61803	EELI_T2	0	0	0	0	0	0	0.15	0.14	1	1	0	600	600	0
5/26/2024 22:26	55101	WERT_T1	0	0	0	0	0	0	-1.68	-1.74	2	2	0	1500	1500	0
5/26/2024 22:26	58401	MORO_T1	0	0	0	0	0	0	-1.49	-1.52	2	2	0	1200	1200	0
5/26/2024 22:26	46203	DANV_T2	0	0	0	0	0	0	-3.64	-3.66	0	0	0	0	0	0
5/26/2024 22:26	42701	AUGU_T1	62	67	5	0.67	0.62	-0.05	0	0	0	0	0	0	0	0
5/26/2024 22:26	29402	BELT_T1	35	21	-14	0.6	0.68	0.08	0	0	0	0	0	0	0	0
5/26/2024 22:26	57106	SPHI_T2	3	3	0	1.33	1.17	-0.16	0	0	0	0	0	0	0	0
5/26/2024 22:27	63304	GREE_T1	33	35	2	0.18	0.17	-0.01	-2.68	-2.71	0	0	0	0	0	0
5/26/2024 22:27	44801	EDAN_T2	1	1	0	1.5	1.2	-0.3	1.2	1.14	0	0	0	0	0	0
5/26/2024 22:27	45402	WBLO_T2	1	1	0	0.8	1.2	0.4	-1.57	-1.56	1	1	0	900	900	0
5/26/2024 22:27	43301	WATS_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
5/26/2024 22:27	43304	WATS_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
5/26/2024 22:27	63302	GREE_T1	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
5/26/2024 22:27	11804	FRAN_T1	0	0	0	0	0	0	0.77	0.74	0	0	0	0	0	0
5/26/2024 22:27	63305	GREE_T1	3	2	-1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
5/26/2024 22:28	45501	DERR_T2	1	1	0	0.1	0.3	0.2	-0.65	-0.63	2	2	0	1800	1800	0
5/26/2024 22:28	57104	SPHI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/26/2024 22:28	44502	HAMI_T2	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
5/26/2024 22:28	57101	SPHI_T2	6	6	0	0.67	0.37	-0.3	0	0	0	0	0	0	0	0
5/26/2024 22:28	57106	SPHI_T2	3	3	0	1.33	1.17	-0.16	0	0	0	0	0	0	0	0
5/26/2024 22:28	55002	NEWP_T1	3	5	2	0.6	0.52	-0.08	-0.16	-0.15	0	0	0	0	0	0
5/26/2024 22:28	44505	HAMI_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
5/26/2024 22:28	56801	BENV_T1	13	8	-5	0.86	1.5	0.64	-1.33	-1.36	2	2	0	1200	1200	0
5/26/2024 22:28	56803	BENV_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
5/26/2024 22:28	20403	ASHF_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
5/26/2024 22:28	58001	WCAR_T1	4	4	0	1	0.53	-0.47	-0.1	-0.14	0	0	0	0	0	0
5/26/2024 22:28	58003	WCAR_T1	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
5/26/2024 22:28	57103	SPHI_T2	0	0	0	0	0	0	-0.62	-0.64	1	1	0	600	600	0
5/26/2024 22:28	44501	HAMI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:28	67605	WANW_T1	0	0	0	0	0	0	-3.59	-3.75	0	0	0	0	0	0
5/26/2024 22:29	64202	KINZ_T1	2	2	0	0.3	0.55	0.25	0	0	0	0	0	0	0	0
5/26/2024 22:29	55002	NEWP_T1	3	5	2	0.6	0.52	-0.08	-0.16	-0.15	0	0	0	0	0	0
5/26/2024 22:29	42901	MIDD_T2	397	435	38	0.56	0.65	0.09	0	0	0	0	0	0	0	0
5/26/2024 22:29	59101	WALK_T2	0	0	0	0	0	0	-0.51	-0.55	0	0	0	0	0	0
5/26/2024 22:29	42903	MIDD_T2	61	99	38	0.41	0.45	0.04	0	0	0	0	0	0	0	0
5/26/2024 22:29	40101	HUNT_T2	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
5/26/2024 22:29	46206	DANV_T2	13	13	0	6.17	6.27	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:29	46203	DANV_T2	0	0	0	0	0	0	-3.64	-3.66	0	0	0	0	0	0
5/26/2024 22:29	26603	BROO_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
5/26/2024 22:29	42902	MIDD_T2	157	202	45	0.61	0.63	0.02	-2.2	-2.16	0	0	0	0	0	0
5/26/2024 22:29	64203	KINZ_T1	0	0	0	0	0	0	-0.19	-0.2	1	1	0	600	600	0
5/26/2024 22:29	45902	AUBU_T1	1	9	8	0	0.21	0.21	-0.66	-0.7	0	0	0	0	0	0
5/26/2024 22:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 22:29	64201	KINZ_T1	5	5	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:29	64204	KINZ_T1	5	4	-1	0.3	0.38	0.08	0	0	0	0	0	0	0	0
5/26/2024 22:29	26601	BROO_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/26/2024 22:30	58401	MORO_T1	0	0	0	0	0	0	-1.49	-1.52	2	2	0	1200	1200	0
5/26/2024 22:30	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/26/2024 22:30	46203	DANV_T2	0	0	0	0	0	0	-1.82	-1.83	0	0	0	0	0	0
5/26/2024 22:30	52401	GRPA_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:30	43301	WATS_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:30	40101	HUNT_T2	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
5/26/2024 22:30	52403	GRPA_T2	2	2	0	0.6	0.1	-0.5	-0.84	-0.84	0	0	0	0	0	0
5/26/2024 22:30	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 22:30	43304	WATS_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
5/26/2024 22:30	46206	DANV_T2	13	13	0	6.2	6.62	0.42	0	0	0	0	0	0	0	0
5/26/2024 22:30	52402	GRPA_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
5/26/2024 22:31	57401	SPAN_T1	0	0	0	0	0	0	-1.01	-0.83	1	1	0	600	600	0
5/26/2024 22:31	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:31	56801	BENV_T1	8	8	0	1.39	1.44	0.05	-1.33	-1.36	2	2	0	1200	1200	0
5/26/2024 22:31	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/26/2024 22:32	42902	MIDD_T2	191	235	44	0.62	0.72	0.1	-0.55	-0.54	0	0	0	0	0	0
5/26/2024 22:32	42903	MIDD_T2	79	118	39	0.4	0.49	0.09	0	0	0	0	0	0	0	0
5/26/2024 22:32	42901	MIDD_T2	422	469	47	0.62	0.68	0.06	0	0	0	0	0	0	0	0
5/26/2024 22:32	46206	DANV_T2	13	13	0	6.2	6.62	0.42	0	0	0	0	0	0	0	0
5/26/2024 22:32	46203	DANV_T2	0	0	0	0	0	0	-1.82	-1.83	0	0	0	0	0	0
5/26/2024 22:33	65901	SAKR_T2	1	1	0	7.5	7.8	0.3	-0.9	-0.93	1	1	0	900	900	0
5/26/2024 22:33	43301	WATS_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:33	67603	WARW_T1	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
5/26/2024 22:33	43304	WATS_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
5/26/2024 22:34	43304	WATS_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
5/26/2024 22:34	58402	MORO_T1	0	0	0	0	0	0	-0.47	-0.47	2	2	0	1500	1500	0
5/26/2024 22:34	43301	WATS_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/26/2024 22:56	50501	MECH_T1	4	4	0	0.5	0.33	-0.17	-1.15	-1.16	0	0	0	0	0	0
5/26/2024 22:56	50502	MECH_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
5/26/2024 23:23	51003	NHAR_T1	5	5	0	0.32	0.38	0.06	0	0	0	0	0	0	0	0
5/26/2024 23:23	51002	NHAR_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
5/26/2024 23:23	51004	NHAR_T1	1	6	5	6	1.13	-4.87	-1.62	-1.55	0	0	0	0	0	0
5/26/2024 23:38	64203	KINZ_T1	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
5/26/2024 23:38	64201	KINZ_T1	7	7	0	0.4	0.41	0.01	0	0	0	0	0	0	0	0
5/26/2024 23:38	64204	KINZ_T1	21	20	-1	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
5/26/2024 23:38	64202	KINZ_T1	7	3	-4	0.23	0.53	0.3	0	0	0	0	0	0	0	0
5/26/2024 23:39	64203	KINZ_T1	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
5/26/2024 23:39	64204	KINZ_T1	21	20	-1	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
5/26/2024 23:39	64202	KINZ_T1	7	3	-4	0.23	0.53	0.3	0	0	0	0	0	0	0	0
5/26/2024 23:39	64201	KINZ_T1	7	7	0	0.4	0.41	0.01	0	0	0	0	0	0	0	0
5/27/2024 4:54	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/27/2024 7:13	61102	BERK_T5	0	0	0	0	0	0	0.89	0.88	1	1	0	300	300	0
5/27/2024 7:15	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/27/2024 7:19	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/27/2024 7:20	48301	ORWI_T1	2	2	0	4.8	4.8	0	0	0	0	0	0	0	0	0
5/27/2024 7:21	16201	POPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/27/2024 7:22	58006	WCAR_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
5/27/2024 7:22	64101	REFR_T1	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
5/27/2024 7:49	60802	BUCK_T2	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
5/27/2024 7:52	60801	BUCK_T1	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
5/27/2024 7:53	61501	EPET_T2	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
5/27/2024 7:53	61506	EPET_T2	0	0	0	0	0	0	-1.07	-1.05	1	1	0	900	900	0
5/27/2024 7:58	46203	DANV_T2	0	0	0	0	0	0	-3.74	-3.6	0	0	0	0	0	0
5/27/2024 7:58	46206	DANV_T2	13	13	0	4.89	5.89	1	0	0	0	0	0	0	0	0
5/27/2024 7:59	46203	DANV_T2	0	0	0	0	0	0	-1.87	-1.8	0	0	0	0	0	0
5/27/2024 7:59	46206	DANV_T2	13	13	0	4.89	5.89	1	0	0	0	0	0	0	0	0
5/27/2024 8:00	46203	DANV_T2	0	0	0	0	0	0	-1.87	-1.8	0	0	0	0	0	0
5/27/2024 8:00	46206	DANV_T2	13	13	0	5.89	5.51	-0.38	0	0	0	0	0	0	0	0
5/27/2024 8:02	59202	THOM_T1	219	385	166	0.19	0.62	0.43	0	0	0	0	0	0	0	0
5/27/2024 8:02	17002	RIRO_T2	0	61	61	0	0.17	0.17	0.4	0.43	0	0	0	0	0	0
5/27/2024 8:02	59201	THOM_T1	14	35	21	0.38	0.67	0.29	0	0	0	0	0	0	0	0
5/27/2024 8:03	46203	DANV_T2	0	0	0	0	0	0	-1.87	-1.8	0	0	0	0	0	0
5/27/2024 8:03	46206	DANV_T2	13	13	0	5.89	5.51	-0.38	0	0	0	0	0	0	0	0
5/27/2024 8:06	67703	WERN_T2	0	0	0	0	0	0	-2.04	-1.78	3	3	0	2700	2700	0
5/27/2024 8:07	67702	WERN_T2	0	0	0	0	0	0	-0.01	0.04	0	0	0	0	0	0
5/27/2024 8:08	59201	THOM_T1	14	35	21	0.38	0.67	0.29	0	0	0	0	0	0	0	0
5/27/2024 8:08	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/27/2024 8:08	45902	AUBU_T1	232	94	-138	0.23	0.22	-0.01	-0.68	-0.68	0	0	0	0	0	0
5/27/2024 8:08	59202	THOM_T1	219	385	166	0.19	0.62	0.43	0	0	0	0	0	0	0	0
5/27/2024 8:08	45901	AUBU_T1	10	5	-5	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
5/27/2024 8:09	44801	EDAN_T2	44	38	-6	0.44	0.59	0.15	0.77	0.7	0	0	0	0	0	0
5/27/2024 8:09	67702	WERN_T2	0	0	0	0	0	0	0.04	-0.01	0	0	0	0	0	0
5/27/2024 8:09	67703	WERN_T2	0	0	0	0	0	0	-0.59	-0.59	1	1	0	900	900	0
5/27/2024 8:10	44801	EDAN_T2	44	38	-6	0.44	0.59	0.15	0.77	0.7	0	0	0	0	0	0
5/27/2024 8:10	45902	AUBU_T1	232	94	-138	0.23	0.22	-0.01	-0.68	-0.68	0	0	0	0	0	0
5/27/2024 8:10	45901	AUBU_T1	10	5	-5	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
5/27/2024 8:19	29402	BELT_T1	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
5/27/2024 8:19	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	1	1	0	900	900	0
5/27/2024 8:20	26603	BROO_T1	0	0	0	0	0	0	0.39	0.45	0	0	0	0	0	0
5/27/2024 8:22	26603	BROO_T1	0	0	0	0	0	0	0.39	0.45	0	0	0	0	0	0
5/27/2024 8:29	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
5/27/2024 8:37	24201	PROV_T3	1	19	18	5.9	0.45	-5.45	-1.26	-1.24	1	1	0	1200	1200	0
5/27/2024 8:37	24204	PROV_T3	1	1	0	6	5.5	-0.5	0	0	0	0	0	0	0	0
5/27/2024 8:37	24205	PROV_T3	1	5	4	1.6	0.2	-1.4	0	0	0	0	0	0	0	0
5/27/2024 8:54	45901	AUBU_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/27/2024 8:54	45902	AUBU_T1	80	74	-6	0.22	0.25	0.03	-0.62	-0.59	0	0	0	0	0	0
5/27/2024 8:54	67703	WERN_T2	0	0	0	0	0	0	-0.45	-0.43	1	1	0	900	900	0
5/27/2024 8:54	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/27/2024 8:55	57006	WHHI_T2	0	31	31	0	0.21	0.21	-1.6	-1.58	0	0	0	0	0	0
5/27/2024 8:57	45901	AUBU_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/27/2024 8:57	44801	EDAN_T2	125	289	164	0.59	0.57	-0.02	0.73	0.77	0	0	0	0	0	0
5/27/2024 8:57	45902	AUBU_T1	80	74	-6	0.22	0.25	0.03	-0.62	-0.59	0	0	0	0	0	0
5/27/2024 8:58	49802	UNIV_T2	2	1	-1	0.3	0.5	0.2	-0.32	-0.2	0	0	0	0	0	0
5/27/2024 8:59	57006	WHHI_T2	0	31	31	0	0.21	0.21	-1.6	-1.58	0	0	0	0	0	0
5/27/2024 8:59	45902	AUBU_T1	80	74	-6	0.22	0.25	0.03	-0.62	-0.59	0	0	0	0	0	0
5/27/2024 8:59	45901	AUBU_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/27/2024 9:00	29402	BELT_T1	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
5/27/2024 9:00	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/27/2024 9:01	29402	BELT_T1	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
5/27/2024 9:01	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/27/2024 9:02	29402	BELT_T1	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
5/27/2024 9:02	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/27/2024 9:10	44801	EDAN_T2	184	309	125	0.58	0.65	0.07	0.77	0.79	0	0	0	0	0	0
5/27/2024 9:39	15702	TANN_T2	0	0	0	0	0	0	-0.34	-0.27	0	0	0	0	0	0
5/27/2024 9:39	15703	TANN_T2	1	1	0	5.7	6	0.3	0	0	0	0	0	0	0	0
5/27/2024 9:43	15703	TANN_T2	1	1	0	5.7	6	0.3	0	0	0	0	0	0	0	0
5/27/2024 9:43	15702	TANN_T2	0	0	0	0	0	0	-0.34	-0.27	0	0	0	0	0	0
5/27/2024 9:48	58006	WCAR_T2	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
5/27/2024 9:52	45902	AUBU_T1	15	5	-10	0.4	0.78	0.38	-0.57	-0.54	0	0	0	0	0	0
5/27/2024 9:55	45902	AUBU_T1	15	5	-10	0.4	0.78	0.38	0	0	0	0	0	0	0	0
5/27/2024 9:55	45901	AUBU_T1	0	0	0	0	0	0	1.06	1.05	0	0	0	0	0	0
5/27/2024 9:58	16102	BING_T2	0	0	0	0	0	0	0.42	-0.84	0	1	1	0	1200	1200
5/27/2024 9:58	21203	ECAR_T1	1	0	-1	0.5	0	-0.5	0.56	0.59	0	0	0	0	0	0
5/27/2024 9:58	16101	BING_T2	1	1	0	9.7	9.8	0.1	0	0	0	0	0	0	0	0
5/27/2024 10:00	29401	BELT_T1	0	28	28	0	0.14	0.14	0	0	1	1	0	900	900	0
5/27/2024 10:00	20401	ASHF_T2	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/27/2024 10:00	46002	BERW_T2	0	1	1	0	0	0	-1.23	-1.16	1	1	0	900	900	0
5/27/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.29	0.34	0	0	0	0	0	0
5/27/2024 10:00	20403	ASHF_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
5/27/2024 10:00	42902	MIDD_T2	89	61	-28	0.53	0.32	-0.21	-0.49	-0.45	0	0	0	0	0	0
5/27/2024 10:00	67502	WEWI_T2	0	1	1	0	0.2	0.2	-0.87	-0.89	1	1	0	900	900	0
5/27/2024 10:00	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/27/2024 10:00	29402	BELT_T1	1	1	0	7.4	7.7	0.3	0	0	0	0	0	0	0	0
5/27/2024 10:00	52503	PROG_T2	0	0	0	0	0	0	-0.45	-0.3	1	1	0	900	900	0
5/27/2024 10:00	40502	CRES_T2	2	3	1	0.1	0.1	0	0.14	0.16	0	0	0	0	0	0
5/27/2024 10:00	42903	MIDD_T2	61	3	-58	0.43	1.53	1.1	0	0	0	0	0	0	0	0
5/27/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/27/2024 10:00	42901	MIDD_T2	196	39	-157	0.37	0.15	-0.22	0	0	0	0	0	0	0	0
5/27/2024 10:00	40505	CRES_T1	3	3	0	4.6	4.5	-0.1	0.8	0.81	0	0	0	0	0	0
5/27/2024 10:03	58006	WCAR_T2	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
5/27/2024 10:08	48602	POCA_T1	1	0	-1	0.1	0	-0.1	0.2	0.18	1	1	0	1200	1200	0
5/27/2024 10:15	22903	HARW_T1	0	0	0	0	0	0	0.29	0.35	0	0	0	0	0	0
5/27/2024 10:18	54201	PENN_T1	3	7	4	1.37	0.77	-0.6	0	0	0	0	0	0	0	0
5/27/2024 10:18	54203	PENN_T1	6	18	12	0.5	0.52	0.02	0.51	0.53	0	0	0	0	0	0
5/27/2024 10:19	24204	PROV_T3	1	2	1	6.4	2.95	-3.45	0	0	0	0	0	0	0	0
5/27/2024 10:19	65001	NEFF_T2	0	0	0	0	0	0	-0.53	-0.68	1	1	0	1200	1200	0
5/27/2024 10:19	24201	PROV_T3	1	2	1	7	3.35	-3.65	-1.07	-1.05	1	1	0	1200	1200	0
5/27/2024 10:19	24205	PROV_T3	1	5	4	1	0.6	-0.4	0	0	0	0	0	0	0	0
5/27/2024 10:20	46203	DANV_T2	0	0	0	0	0	0	-3.23	-3.3	0	0	0	0	0	0
5/27/2024 10:20	46206	DANV_T2	13	14	1	6.21	6.06	-0.15	0	0	0	0	0	0	0	0
5/27/2024 10:21	46203	DANV_T2	0	0	0	0	0	0	-1.62	-1.65	0	0	0	0	0	0
5/27/2024 10:21	46206	DANV_T2	13	14	1	6.21	6.06	-0.15	0	0	0	0	0	0	0	0
5/27/2024 10:25	13501	MCMI_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
5/27/2024 10:30	55101	WERT_T1	0	0	0	0	0	0	-0.8	-0.76	2	2	0	1500	1500	0
5/27/2024 10:30	15703	TANN_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
5/27/2024 10:30	15702	TANN_T2	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
5/27/2024 10:31	44902	SCOT_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
5/27/2024 10:32	15703	TANN_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
5/27/2024 10:32	15702	TANN_T2	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
5/27/2024 10:32	67703	WERN_T2	0	0	0	0	0	0	-0.34	-0.32	1	1	0	900	900	0
5/27/2024 10:34	59201	THOM_T1	19	12	-7	0.61	0.23	-0.38	0	0	0	0	0	0	0	0
5/27/2024 10:34	67702	WERN_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
5/27/2024 10:34	59202	THOM_T1	247	26	-221	0.37	0.27	-0.1	0	0	0	0	0	0	0	0
5/27/2024 10:35	67702	WERN_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
5/27/2024 10:35	67703	WERN_T2	0	0	0	0	0	0	-0.34	-0.32	1	1	0	900	900	0
5/27/2024 10:36	44902	SCOT_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
5/27/2024 10:37	67703	WERN_T2	0	0	0	0	0	0	-0.68	-0.64	2	2	0	1800	1800	0
5/27/2024 10:37	58006	WCAR_T2	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
5/27/2024 10:46	10801	CHHI_T1	3	1	-2	0.13	0.1	-0.03	-1.61	-1.58	3	3	0	2100	2100	0
5/27/2024 10:58	53901	HALI_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/27/2024 10:58	53902	HALI_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
5/27/2024 10:58	53903	HALI_T2	2	2	0	1.4	1.5	0.1	-0.01	-0.03	0	0	0	0	0	0
5/27/2024 11:32	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	3	3	0	2700	2700	0
5/27/2024 11:32	29402	BELT_T1	1	1	0	7.1	6.5	-0.6	0	0	0	0	0	0	0	0
5/27/2024 11:33	29402	BELT_T1	1	1	0	7.1	6.5	-0.6	0	0	0	0	0	0	0	0
5/27/2024 11:33	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	4	4	0	3600	3600	0
5/27/2024 11:34	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	1	1	0	900	900	0
5/27/2024 11:34	29402	BELT_T1	1	1	0	7.1	6.5	-0.6	0	0	0	0	0	0	0	0
5/27/2024 11:38	11507	RREE_T2	1	0	0	0.1	0	-0.1	0.34	0.31	0	0	0	0	0	0
5/27/2024 11:40	64203	KINZ_T1	0	0	0	0	0	0	0.85	0.9	0	0	0	0	0	0
5/27/2024 11:40	64204	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/27/2024 11:40	64201	KINZ_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/27/2024 11:41	25503	MADI_T1	0	0	0	0	0	0	-0.65	-0.69	0	0	0	0	0	0
5/27/2024 11:41	25501	MADI_T1	1	1	0	4.1	2.6	-1.5	0	0	0	0	0	0	0	0
5/27/2024 11:58	17002	RIRO_T2	1	1	0	0.1	0.5	0.4	0.56	0.55	0	0	0	0	0	0
5/27/2024 12:19	45901	AUBU_T1	0	0	0	0	0	0	1.07	1.09	0	0	0	0	0	0
5/27/2024 12:21	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.59	0	0	0	0	0	0
5/27/2024 12:28	60801	BUCK_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
5/27/2024 12:31	11904	ETEX_T2	0	0	0	0	0	0	-0.46	-0.41	0	0	0	0	0	0
5/27/2024 12:33	11904	ETEX_T2	0	0	0	0	0	0	-0.46	-0.41	0	0	0	0	0	0
5/27/2024 12:34	63501	HEID_TBK1-2	1	2	1	0.2	0.25	0.05	0.21	0.16	1	1	0	900	900	0
5/27/2024 12:35	60801	BUCK_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
5/27/2024 12:43	65205	PRIN_T1	1	1	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
5/27/2024 12:46	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/27/2024 12:46	58401	MORO_T1	0	0	0	0	0	0	-0.88	-0.82	1	1	0	600	600	0
5/27/2024 12:47	58401	MORO_T1	0	0	0	0	0	0	-0.88	-0.82	1	1	0	600	600	0
5/27/2024 12:47	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/27/2024 13:02	58006	WCAR_T2	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
5/27/2024 13:02	58002	WCAR_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
5/27/2024 13:17	56803	BENV_T1	2	2	0	3.3	5.4	2.1	0	0	0	0	0	0	0	0
5/27/2024 13:17	20403	ASHF_T2	0	0	0	0	0	0	0.67	0.56	0	0	0	0	0	0
5/27/2024 13:17	20402	ASHF_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
5/27/2024 13:17	56801	BENV_T1	5	12	7	0.42	0.98	0.56	-0.22	-0.69	1	2	1	600	1200	600
5/27/2024 13:17	20401	ASHF_T2	4	6	2	0.43	0.52	0.09	0	0	0	0	0	0	0	0
5/27/2024 13:18	56802	BENV_T2	2	1	-1	0.45	1	0.55	-1.03	-1.01	0	0	0	0	0	0
5/27/2024 13:19	56802	BENV_T2	2	1	-1	0.45	1	0.55	-2.06	-2.02	0	0	0	0	0	0
5/27/2024 13:23	52403	GRPA_T2	9	6	-3	1.04	0.23	-0.81	0.29	0.31	0	0	0	0	0	0
5/27/2024 13:23	52402	GRPA_T2	3	3	0	0.23	0.63	0.4	0	0	0	0	0	0	0	0
5/27/2024 13:26	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/27/2024 13:26	21206	ECAR_T2	1	2	1	7.7	7.9	0.2	0.02	-0.01	0	0	0	0	0	0
5/27/2024 13:29	45702	LIND_T2	2	2	0	0.15	0.45	0.3	-1.65	-1.64	0	0	0	0	0	0
5/27/2024 13:33	65503	MOJO_T2	0	0	0	0	0	0	-0.8	-0.73	1	1	0	900	900	0
5/27/2024 13:34	46203	DANV_T2	0	0	0	0	0	0	-1.64	-1.65	0	0	0	0	0	0
5/27/2024 13:34	46206	DANV_T2	13	13	0	3.86	4.02	0.16	0	0	0	0	0	0	0	0
5/27/2024 13:35	66703	STRA_T1	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
5/27/2024 13:36	57401	SPAN_T1	0	0	0	0	0	0	-1.06	-1.05	1	1	0	600	600	0
5/27/2024 13:36	46203	DANV_T2	0	0	0	0	0	0	-1.64	-1.65	0	0	0	0	0	0
5/27/2024 13:36	46206	DANV_T2	13	13	0	3.86	4.02	0.16	0	0	0	0	0	0	0	0
5/27/2024 13:46	67505	WEWI_T1	0	0	0	0	0	0	0.44	0.43	1	1	0	900	900	0
5/27/2024 13:50	67505	WEWI_T1	0	0	0	0	0	0	0.44	0.43	1	1	0	900	900	0
5/27/2024 13:56	29402	BELT_T1	1	1	0	6.4	6.7	0.3	0	0	0	0	0	0	0	0
5/27/2024 13:56	29401	BELT_T1	3	17	14	0.1	0.11	0.01	0	0	1	1	0	900	900	0
5/27/2024 14:13	53903	HALI_T2	2	3	1	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
5/27/2024 14:13	53901	HALI_T2	0	1	1	0	0.4	0.4	-1.19	-1.17	0	0	0	0	0	0
5/27/2024 14:13	53902	HALI_T2	1	1	0	5.2	5.5	0.3	0	0	0	0	0	0	0	0
5/27/2024 14:17	43202	MVIL_T2	0	0	0	0	0	0	-1.06	-0.98	0	0	0	0	0	0
5/27/2024 14:18	59302	MCAL_T1	1	2	1	0.1	0.2	0.1	-0.31	-0.27	1	1	0	600	600	0
5/27/2024 14:18	59301	MCAL_T1	5	12	7	0.36	0.39	0.03	0	0	0	0	0	0	0	0
5/27/2024 14:19	43202	MVIL_T2	0	0	0	0	0	0	-0.53	-0.49	0	0	0	0	0	0
5/27/2024 14:21	66103	REAM_T2	0	0	0	0	0	0	1	0.99	0	0	0	0	0	0
5/27/2024 14:22	15204	SFAR_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
5/27/2024 14:24	15204	SFAR_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
5/27/2024 14:28	58003	WCAR_T1	1	14	13	1	0.21	-0.79	0.99	0.98	0	0	0	0	0	0
5/27/2024 14:28	58001	WCAR_T1	4	6	2	0.95	0.87	-0.08	1.01	1.02	0	0	0	0	0	0
5/27/2024 14:29	58003	WCAR_T1	1	14	13	1	0.21	-0.79	0.99	0.98	0	0	0	0	0	0
5/27/2024 14:29	58001	WCAR_T1	4	6	2	0.95	0.87	-0.08	0	0	0	0	0	0	0	0
5/27/2024 14:33	58001	WCAR_T1	4	6	2	0.95	0.88	-0.07	0	0	0	0	0	0	0	0
5/27/2024 14:33	64902	MILL_T2	0	0	0	0	0	0	-0.71	-0.66	1	1	0	900	900	0
5/27/2024 14:33	58003	WCAR_T1	5	19	14	0.38	0.18	-0.2	0.99	0.98	0	0	0	0	0	0
5/27/2024 14:38	63804	HEMP_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
5/27/2024 14:38	63802	HEMP_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
5/27/2024 14:41	52403	GRPA_T2	3	3	0	1.23	0.43	-0.8	0.34	0.3	0	0	0	0	0	0
5/27/2024 14:41	52402	GRPA_T2	3	3	0	0.63	0.67	0.04	0	0	0	0	0	0	0	0
5/27/2024 14:43	29402	BELT_T1	1	1	0	6.6	6.9	0.3	0	0	0	0	0	0	0	0
5/27/2024 14:43	29401	BELT_T1	14	45	31	0.11	0.24	0.13	0	0	1	1	0	900	900	0
5/27/2024 14:47	40101	HUNT_T2	0	0	0	0	0	0	-0.47	-0.45	0	0	0	0	0	0
5/27/2024 15:34	29402	BELT_T1	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
5/27/2024 15:34	29401	BELT_T1	37	52	15	0.22	0.25	0.03	0	0	1	1	0	900	900	0
5/27/2024 20:23	46203	DANV_T2	0	0	0	0	0	0	-0.42	-0.49	0	0	0	0	0	0
5/27/2024 20:23	46206	DANV_T2	13	13	0	3.72	4.32	0.6	0	0	0	0	0	0	0	0
5/27/2024 20:25	46206	DANV_T2	13	13	0	3.72	4.32	0.6	0	0	0	0	0	0	0	0
5/27/2024 20:25	46203	DANV_T2	0	0	0	0	0	0	-0.49	-0.47	0	0	0	0	0	0
5/27/2024 20:32	15702	TANN_T2	1	0	-1	0.5	0	-0.5	-0.25	-0.24	0	0	0	0	0	0
5/27/2024 20:32	15703	TANN_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
5/27/2024 20:35	67703	WERN_T2	0	0	0	0	0	0	-0.44	-0.47	1	1	0	900	900	0
5/27/2024 20:38	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/27/2024 20:38	15702	TANN_T2	1	0	-1	0.5	0	-0.5	-0.25	-0.24	0	0	0	0	0	0
5/27/2024 20:38	15703	TANN_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
5/27/2024 20:51	10801	CHHI_T1	0	2	2	0	0	0	-1.62	-1.12	3	2	-1	2100	1500	-600
5/27/2024 20:52	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/27/2024 21:06	13501	MCMI_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
5/27/2024 21:36	29402	BELT_T1	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
5/27/2024 21:36	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/27/2024 21:42	11507	FREE_T2	0	1	1	0	0	0	1.22	1.25	0	0	0	0	0	0
5/27/2024 21:44	64202	KINZ_T1	9	0	-9	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/27/2024 21:44	64203	KINZ_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
5/27/2024 21:44	64201	KINZ_T1	7	1	-6	0.59	0.3	-0.29	0	0	0	0	0	0	0	0
5/27/2024 21:44	64204	KINZ_T1	28	1	-27	0.33	0.4	0.07	0	0	0	0	0	0	0	0
5/27/2024 21:45	25503	MADI_T1	74	79	5	0.24	0.25	0.01	-0.8	-0.82	0	0	0	0	0	0
5/27/2024 21:45	25501	MADI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/27/2024 22:10	44902	SCOT_T2	5	0	-5	0.1	0	-0.1	0.22	0.21	0	0	0	0	0	0
5/27/2024 22:12	17002	RIRO_T2	42	0	-42	0.17	0	-0.17	0.4	0.38	0	0	0	0	0	0
5/27/2024 22:15	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/27/2024 22:15	29402	BELT_T1	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
5/27/2024 22:16	11904	ETEX_T2	0	0	0	0	0	0	-0.65	-0.61	0	0	0	0	0	0
5/27/2024 22:18	29402	BELT_T1	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
5/27/2024 22:19	11904	ETEX_T2	0	0	0	0	0	0	-0.65	-0.61	0	0	0	0	0	0
5/27/2024 22:20	15204	SFAR_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
5/27/2024 22:23	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/27/2024 22:23	29402	BELT_T1	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
5/27/2024 22:24	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/27/2024 22:24	29402	BELT_T1	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
5/27/2024 22:25	15204	SFAR_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
5/27/2024 22:28	59201	THOM_T1	8	16	8	0.25	0.38	0.13	0	0	0	0	0	0	0	0
5/27/2024 22:28	65001	NEFF_T2	0	0	0	0	0	0	-1.07	-0.98	1	1	0	1200	1200	0
5/27/2024 22:28	20401	ASHF_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/27/2024 22:28	65003	NEFF_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
5/27/2024 22:28	59202	THOM_T1	20	144	124	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
5/27/2024 22:28	20403	ASHF_T2	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
5/27/2024 22:29	45901	AUBU_T1	0	0	0	0	0	0	1.1	1.03	0	0	0	0	0	0
5/27/2024 22:29	66103	REAM_T2	0	0	0	0	0	0	1.14	1.14	0	0	0	0	0	0
5/27/2024 22:30	45902	AUBU_T1	0	0	0	0	0	0	-0.41	-0.36	0	0	0	0	0	0
5/27/2024 22:30	58006	WCAR_T2	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
5/27/2024 22:30	67505	WEWI_T1	0	0	0	0	0	0	0.32	0.26	1	1	0	900	900	0
5/27/2024 22:30	66703	STRA_T1	56	59	3	0.25	0.23	-0.02	-0.55	-0.57	0	0	0	0	0	0
5/27/2024 22:31	67505	WEWI_T1	0	0	0	0	0	0	0.32	0.26	1	1	0	900	900	0
5/27/2024 22:32	59302	MCAL_T1	0	0	0	0	0	0	-0.32	-0.29	1	1	0	600	600	0
5/27/2024 22:32	60801	BUCK_T1	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
5/27/2024 22:32	59301	MCAL_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
5/27/2024 22:33	56802	BENV_T2	1	1	0	0.2	0.8	0.6	-0.6	-1.34	0	0	0	0	0	0
5/27/2024 22:33	60801	BUCK_T1	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
5/27/2024 22:34	56803	BENV_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
5/27/2024 22:34	24201	PROV_T3	1	1	0	7.8	6.8	-1	-1.18	-1.22	1	1	0	1200	1200	0
5/27/2024 22:34	24204	PROV_T3	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
5/27/2024 22:34	58006	WCAR_T2	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
5/27/2024 22:34	56801	BENV_T1	12	12	0	0.98	0.87	-0.11	-0.26	-0.33	1	1	0	600	600	0
5/27/2024 22:34	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/27/2024 22:35	45702	LIND_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
5/27/2024 22:35	56802	BENV_T2	1	1	0	0.2	0.8	0.6	-0.6	-1.34	0	0	0	0	0	0
5/27/2024 22:35	55101	WERT_T1	0	0	0	0	0	0	-1.25	-1.22	2	2	0	1500	1500	0
5/27/2024 22:36	56802	BENV_T2	1	1	0	0.2	0.8	0.6	-0.6	-1.34	0	0	0	0	0	0
5/27/2024 22:36	58003	WCAR_T1	25	42	17	0.2	0.22	0.02	1.44	1.44	0	0	0	0	0	0
5/27/2024 22:36	58001	WCAR_T1	4	4	0	0.95	1.13	0.18	0.86	0.8	0	0	0	0	0	0
5/27/2024 22:37	46206	DANV_T2	13	13	0	3.88	4.01	0.13	0	0	0	0	0	0	0	0
5/27/2024 22:37	46203	DANV_T2	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
5/27/2024 22:37	46205	DANV_T2	0	19	19	0	0.12	0.12	0	0	0	0	0	0	0	0
5/27/2024 22:37	58003	WCAR_T1	25	42	17	0.2	0.22	0.02	0.72	0.72	0	0	0	0	0	0
5/27/2024 22:37	53901	HALI_T2	1	1	0	0.4	0.8	0.4	-1.26	-1.29	0	0	0	0	0	0
5/27/2024 22:37	53903	HALI_T2	2	2	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
5/27/2024 22:37	53902	HALI_T2	1	1	0	5.8	6.2	0.4	0	0	0	0	0	0	0	0
5/27/2024 22:37	63501	HEID_TBK1-2	0	0	0	0	0	0	0.82	0.86	0	0	0	0	0	0
5/27/2024 22:37	58001	WCAR_T1	4	4	0	0.95	1.13	0.18	0	0	0	0	0	0	0	0
5/27/2024 22:38	54201	PENN_T1	11	19	8	0.85	0.67	-0.18	0	0	0	0	0	0	0	0
5/27/2024 22:38	54203	PENN_T1	18	18	0	0.7	1.21	0.51	0.32	0.28	0	0	0	0	0	0
5/27/2024 22:39	46206	DANV_T2	13	13	0	3.88	4.01	0.13	0	0	0	0	0	0	0	0
5/27/2024 22:39	46205	DANV_T2	0	19	19	0	0.12	0.12	0	0	0	0	0	0	0	0
5/27/2024 22:39	46203	DANV_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
5/27/2024 22:41	43202	MVIL_T2	55	86	31	0.46	0.67	0.21	-0.68	-0.67	0	0	0	0	0	0
5/27/2024 22:42	43202	MVIL_T2	55	86	31	0.46	0.67	0.21	-1.36	-1.34	0	0	0	0	0	0
5/27/2024 22:44	53903	HALI_T2	2	2	0	1.3	1.5	0.2	-0.09	-0.1	0	0	0	0	0	0
5/27/2024 22:44	53901	HALI_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
5/27/2024 22:44	53902	HALI_T2	1	1	0	5.8	6.2	0.4	0	0	0	0	0	0	0	0
5/27/2024 22:45	46205	DANV_T2	19	0	-19	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/27/2024 22:45	46203	DANV_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
5/27/2024 22:45	46206	DANV_T2	13	13	0	3.99	3.67	-0.32	0	0	0	0	0	0	0	0
5/27/2024 23:00	29402	BELT_T1	1	1	0	7.4	8	0.6	0	0	0	0	0	0	0	0
5/27/2024 23:00	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/27/2024 23:06	65205	PRIN_T1	1	1	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
5/28/2024 6:17	29402	BELT_T1	1	1	0	7.1	7.6	0.5	0	0	0	0	0	0	0	0
5/28/2024 6:17	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/28/2024 6:43	24201	PROV_T3	1	1	0	6.2	6.5	0.3	-1.35	-1.33	1	1	0	1200	1200	0
5/28/2024 6:43	24204	PROV_T3	1	1	0	6.2	6.5	0.3	0	0	0	0	0	0	0	0
5/28/2024 6:50	15001	BLMO_T1	3	4	1	0.23	0.35	0.12	0	0	0	0	0	0	0	0
5/28/2024 6:52	67703	WERN_T2	0	0	0	0	0	0	-0.85	-0.18	1	1	0	900	900	0
5/28/2024 6:53	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 6:53	40502	CRES_T2	11	9	-2	0.26	0.14	-0.12	-0.09	-0.09	0	0	0	0	0	0
5/28/2024 6:54	67703	WERN_T2	0	0	0	0	0	0	-0.18	-0.17	1	1	0	900	900	0
5/28/2024 6:54	67805	WLAN_T1	0	0	0	0	0	0	-1.17	-1	0	0	0	0	0	0
5/28/2024 6:54	61102	BERK_T5	0	0	0	0	0	0	0.89	0.8	1	1	0	300	300	0
5/28/2024 6:56	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 6:56	62601	ENGL_T1	0	0	0	0	0	0	-1.27	0.09	0	0	0	0	0	0
5/28/2024 6:56	40502	CRES_T2	11	9	-2	0.26	0.14	-0.12	-0.09	-0.09	0	0	0	0	0	0
5/28/2024 6:57	63304	GREE_T1	20	0	-20	0.1	0	-0.1	-1.74	-1.67	0	0	0	0	0	0
5/28/2024 6:57	61102	BERK_T5	0	0	0	0	0	0	0.89	0.8	1	1	0	300	300	0
5/28/2024 6:57	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 6:57	63305	GREE_T1	7	4	-3	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
5/28/2024 6:57	40502	CRES_T2	11	9	-2	0.26	0.14	-0.12	-0.09	-0.09	0	0	0	0	0	0
5/28/2024 6:58	40502	CRES_T2	11	9	-2	0.26	0.14	-0.12	-0.18	-0.18	0	0	0	0	0	0
5/28/2024 6:58	67805	WLAN_T1	0	0	0	0	0	0	-1.17	-1	0	0	0	0	0	0
5/28/2024 6:58	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 7:05	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/28/2024 7:13	56802	BENV_T2	1	1	0	0.1	0.9	0.8	-1.4	-1.38	0	0	0	0	0	0
5/28/2024 7:14	56802	BENV_T2	1	1	0	0.1	0.9	0.8	-1.4	-1.38	0	0	0	0	0	0
5/28/2024 7:15	29401	BELT_T1	0	31	31	0	0.14	0.14	0	0	1	1	0	900	900	0
5/28/2024 7:15	29402	BELT_T1	1	1	0	7.4	8.2	0.8	0	0	0	0	0	0	0	0
5/28/2024 7:16	29401	BELT_T1	0	31	31	0	0.14	0.14	0	0	1	1	0	900	900	0
5/28/2024 7:16	29402	BELT_T1	1	1	0	7.4	8.2	0.8	0	0	0	0	0	0	0	0
5/28/2024 7:16	51604	DUKE_T2	0	0	0	0	0	0	-1.35	-1.36	1	1	0	900	900	0
5/28/2024 7:17	62102	ELAN_T1	0	0	0	0	0	0	0.67	0.77	0	0	0	0	0	0
5/28/2024 7:17	51604	DUKE_T2	0	0	0	0	0	0	-4.05	-4.08	3	3	0	2700	2700	0
5/28/2024 7:18	51604	DUKE_T2	0	0	0	0	0	0	-1.35	-1.36	1	1	0	900	900	0
5/28/2024 7:19	40101	HUNT_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
5/28/2024 7:20	51604	DUKE_T2	0	0	0	0	0	0	-2.7	-2.72	2	2	0	1800	1800	0
5/28/2024 7:21	51604	DUKE_T2	0	0	0	0	0	0	-1.35	-1.36	1	1	0	900	900	0
5/28/2024 7:27	66303	MCGO_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/28/2024 7:27	66302	MCGO_T2	0	0	0	0	0	0	-0.79	-0.88	1	1	0	600	600	0
5/28/2024 7:30	66301	MCGO_T2	0	0	0	0	0	0	-1.67	-1.67	0	0	0	0	0	0
5/28/2024 7:30	66303	MCGO_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/28/2024 7:36	60502	NMAN_T2	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
5/28/2024 7:36	60501	NMAN_T2	8	3	-5	2.21	5.27	3.06	0	0	0	0	0	0	0	0
5/28/2024 7:40	55001	NEWP_T1	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
5/28/2024 7:40	55002	NEWP_T1	5	6	1	0.66	0.8	0.14	0	0	0	0	0	0	0	0
5/28/2024 7:42	45602	WOOL_T1	0	2	2	0	0.2	0.2	0.7	0.73	0	0	0	0	0	0
5/28/2024 7:43	45602	WOOL_T1	0	2	2	0	0.2	0.2	1.39	1.46	0	0	0	0	0	0
5/28/2024 7:53	16301	ALPA_T1	0	0	0	0	0	0	-0.21	-0.11	0	0	0	0	0	0
5/28/2024 7:54	20401	ASHF_T2	2	2	0	0.35	0.15	-0.2	-0.24	-0.19	0	0	0	0	0	0
5/28/2024 7:54	65402	MARI_T1	3	2	-1	0.13	0.15	0.02	-0.01	-0.01	0	0	0	0	0	0
5/28/2024 7:54	67502	WEWI_T2	0	0	0	0	0	0	-0.17	-0.07	0	0	0	0	0	0
5/28/2024 7:55	20403	ASHF_T2	0	0	0	0	0	0	1.09	1.41	0	0	0	0	0	0
5/28/2024 7:55	20401	ASHF_T2	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
5/28/2024 7:55	56802	BENV_T2	1	85	84	0.8	0.18	-0.62	-1.33	-1.3	0	0	0	0	0	0
5/28/2024 7:56	29402	BELT_T1	1	1	0	8.2	8.7	0.5	0	0	0	0	0	0	0	0
5/28/2024 7:56	29401	BELT_T1	31	52	21	0.14	0.17	0.03	0	0	1	1	0	900	900	0
5/28/2024 7:56	67502	WEWI_T2	0	0	0	0	0	0	-0.17	-0.07	0	0	0	0	0	0
5/28/2024 7:58	29401	BELT_T1	31	52	21	0.14	0.17	0.03	0	0	0	0	0	0	0	0
5/28/2024 7:58	29402	BELT_T1	1	1	0	8.2	8.7	0.5	0	0	0	0	0	0	0	0
5/28/2024 7:58	61801	EELI_T2	0	0	0	0	0	0	-0.52	0.14	1	0	-1	600	0	-600
5/28/2024 7:58	63305	GREE_T1	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
5/28/2024 8:00	63801	HEMP_T1	0	0	0	0	0	0	-0.33	-0.24	1	1	0	900	900	0
5/28/2024 8:00	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
5/28/2024 8:20	13905	SEID_T1	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
5/28/2024 8:21	46301	ROHR_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
5/28/2024 8:21	46302	ROHR_T1	2	4	2	2.45	1.75	-0.7	0	0	0	0	0	0	0	0
5/28/2024 8:22	50501	MECH_T1	4	4	0	1.33	1.63	0.3	-1	-1	0	0	0	0	0	0
5/28/2024 8:22	50502	MECH_T1	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
5/28/2024 8:22	50506	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 8:23	46302	ROHR_T1	2	4	2	2.45	1.75	-0.7	0.14	0.14	0	0	0	0	0	0
5/28/2024 8:24	15702	TANN_T2	0	0	0	0	0	0	-0.37	-0.41	0	0	0	0	0	0
5/28/2024 8:24	15703	TANN_T2	1	1	0	5	5.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 8:26	56601	HAMP_T1	0	2	2	0	0.2	0.2	-1.59	-1.58	0	0	0	0	0	0
5/28/2024 8:26	45902	AUBU_T1	0	0	0	0	0	0	-0.42	-0.4	1	1	0	600	600	0
5/28/2024 8:32	20403	ASHF_T2	1	4	3	0.1	0.35	0.25	1.43	1.5	0	0	0	0	0	0
5/28/2024 8:32	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 8:32	16102	BING_T2	0	0	0	0	0	0	0.23	0.29	0	0	0	0	0	0
5/28/2024 8:32	45902	AUBU_T1	0	0	0	0	0	0	-0.42	-0.4	1	1	0	600	600	0
5/28/2024 8:35	44302	BEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/28/2024 8:35	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/28/2024 8:36	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/28/2024 8:36	44302	BEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/28/2024 8:36	55102	WERT_T2	0	0	0	0	0	0	-1.12	-1.02	1	1	0	600	600	0
5/28/2024 8:37	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
5/28/2024 8:37	26603	BROO_T1	0	0	0	0	0	0	1.08	1.12	0	0	0	0	0	0
5/28/2024 8:37	44302	BEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/28/2024 8:37	29401	BELT_T1	7	32	25	0.14	0.15	0.01	0	0	1	1	0	900	900	0
5/28/2024 8:37	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/28/2024 8:37	41502	FAIR_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/28/2024 8:38	11507	FREE_T2	0	0	0	0	0	0	0.96	0.99	0	0	0	0	0	0
5/28/2024 8:38	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
5/28/2024 8:38	29401	BELT_T1	7	32	25	0.14	0.15	0.01	0	0	1	1	0	900	900	0
5/28/2024 8:39	51604	DUKE_T2	0	1	1	0	0	0	-0.16	-0.14	1	0	-1	900	0	-900
5/28/2024 8:39	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
5/28/2024 8:39	29401	BELT_T1	7	32	25	0.14	0.15	0.01	0	0	1	1	0	900	900	0
5/28/2024 8:40	51604	DUKE_T2	0	1	1	0	0	0	-0.32	-0.28	0	0	0	0	0	0
5/28/2024 8:41	17802	GILB_T1	0	1	1	0	0.7	0.7	0.15	0.18	0	0	0	0	0	0
5/28/2024 8:42	51604	DUKE_T2	0	1	1	0	0	0	-0.16	-0.14	0	0	0	0	0	0
5/28/2024 8:43	22905	HARW_T1	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
5/28/2024 8:43	53903	HALI_T2	3	5	2	0.97	0.94	-0.03	0	0	0	0	0	0	0	0
5/28/2024 8:43	53901	HALI_T2	1	1	0	1.2	1.3	0.1	-1.36	-1.37	0	0	0	0	0	0
5/28/2024 8:43	53902	HALI_T2	2	2	0	2.9	3.05	0.15	0	0	0	0	0	0	0	0
5/28/2024 8:44	53903	HALI_T2	3	5	2	0.97	0.94	-0.03	0	0	0	0	0	0	0	0
5/28/2024 8:44	53901	HALI_T2	1	1	0	1.2	1.3	0.1	-2.71	-2.73	0	0	0	0	0	0
5/28/2024 8:44	53902	HALI_T2	2	2	0	2.9	3.05	0.15	0	0	0	0	0	0	0	0
5/28/2024 8:45	53903	HALI_T2	5	4	-1	0.94	1.18	0.24	0	0	0	0	0	0	0	0
5/28/2024 8:45	53901	HALI_T2	1	1	0	1.3	1.5	0.2	-1.36	-1.37	0	0	0	0	0	0
5/28/2024 8:45	53902	HALI_T2	2	3	1	2.95	2.17	-0.78	0	0	0	0	0	0	0	0
5/28/2024 8:46	53901	HALI_T2	1	1	0	1.3	1.5	0.2	-1.36	-1.37	0	0	0	0	0	0
5/28/2024 8:46	53903	HALI_T2	5	4	-1	0.94	1.18	0.24	-0.1	-0.1	0	0	0	0	0	0
5/28/2024 8:46	53902	HALI_T2	2	3	1	2.95	2.17	-0.78	0	0	0	0	0	0	0	0
5/28/2024 8:47	53903	HALI_T2	5	4	-1	0.94	1.18	0.24	-0.2	-0.2	0	0	0	0	0	0
5/28/2024 8:47	53902	HALI_T2	2	3	1	2.95	2.17	-0.78	0	0	0	0	0	0	0	0
5/28/2024 8:47	53901	HALI_T2	1	1	0	1.3	1.5	0.2	-1.36	-1.37	0	0	0	0	0	0
5/28/2024 9:00	41902	REED_T1	0	0	0	0	0	0	2.25	2.4	0	0	0	0	0	0
5/28/2024 9:08	14403	SSLA_T1	0	2	2	0	0.25	0.25	0.88	0.87	0	0	0	0	0	0
5/28/2024 9:08	46302	ROHR_T1	2	4	2	2.8	1.35	-1.45	0.16	0.15	0	0	0	0	0	0
5/28/2024 9:08	13704	SCHN_T2	1	1	0	0.3	0.2	-0.1	-0.07	-0.03	0	0	0	0	0	0
5/28/2024 9:08	14404	SSLA_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
5/28/2024 9:10	14801	TREI_T2	0	2	2	0	0.2	0.2	0.52	0.53	0	0	0	0	0	0
5/28/2024 9:10	13704	SCHN_T2	1	1	0	0.3	0.2	-0.1	-0.07	0.35	0	0	0	0	0	0
5/28/2024 9:11	14404	SSLA_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
5/28/2024 9:11	14403	SSLA_T1	0	2	2	0	0.25	0.25	0.87	0.91	0	0	0	0	0	0
5/28/2024 9:13	13704	SCHN_T2	1	1	0	0.3	0.2	-0.1	-0.03	0.17	0	0	0	0	0	0
5/28/2024 9:14	15001	BLMO_T1	5	5	0	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
5/28/2024 9:15	15001	BLMO_T1	5	6	1	0.22	0.28	0.06	0	0	0	0	0	0	0	0
5/28/2024 9:18	57401	SPAN_T1	1	0	-1	0.1	0	-0.1	-0.81	-0.79	1	1	0	600	600	0
5/28/2024 9:18	57403	SPAN_T1	10	5	-5	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
5/28/2024 9:20	40201	BEGA_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
5/28/2024 9:20	45501	DERR_T2	0	1	1	0	0.2	0.2	0.69	0.73	2	2	0	1800	1800	0
5/28/2024 9:21	61101	BERK_T5	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
5/28/2024 9:21	57401	SPAN_T1	1	0	-1	0.1	0	-0.1	-2.42	-2.37	3	3	0	1800	1800	0
5/28/2024 9:21	64904	MILL_T1	0	0	0	0	0	0	-0.21	-0.15	0	0	0	0	0	0
5/28/2024 9:21	57403	SPAN_T1	10	5	-5	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
5/28/2024 9:21	61103	BERK_T5	0	0	0	0	0	0	0.45	0.5	0	0	0	0	0	0
5/28/2024 9:21	40201	BEGA_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
5/28/2024 9:23	45501	DERR_T2	0	1	1	0	0.2	0.2	0.69	0.73	2	2	0	1800	1800	0
5/28/2024 9:23	65402	MARI_T1	1	2	1	0.3	0.25	-0.05	-0.01	-0.01	0	0	0	0	0	0
5/28/2024 9:24	10801	CHHI_T1	0	2	2	0	0.35	0.35	-0.49	-0.45	1	1	0	900	900	0
5/28/2024 9:24	10805	CHHI_T2	2	2	0	4.65	5.2	0.55	-0.18	-0.07	1	1	0	600	600	0
5/28/2024 9:24	65402	MARI_T1	1	2	1	0.3	0.25	-0.05	-0.01	-0.01	0	0	0	0	0	0
5/28/2024 9:26	65402	MARI_T1	1	2	1	0.3	0.25	-0.05	-0.02	-0.02	0	0	0	0	0	0
5/28/2024 9:26	62102	ELAN_T1	0	0	0	0	0	0	0.89	0.9	0	0	0	0	0	0
5/28/2024 9:27	10801	CHHI_T1	0	2	2	0	0.35	0.35	-0.49	-0.45	1	1	0	900	900	0
5/28/2024 9:27	41502	FAIR_T2	0	0	0	0	0	0	-0.62	-0.59	0	0	0	0	0	0
5/28/2024 9:27	23901	ERMO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 9:29	52403	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/28/2024 9:29	63304	GREE_T1	0	0	0	0	0	0	-1.46	-1.45	0	0	0	0	0	0
5/28/2024 9:29	52402	GRPA_T2	0	0	0	0	0	0	-0.89	-0.86	0	0	0	0	0	0
5/28/2024 9:31	62102	ELAN_T1	0	0	0	0	0	0	0.89	0.9	0	0	0	0	0	0
5/28/2024 9:31	52202	DEVO_T2	0	0	0	0	0	0	-1.2	-1.2	0	0	0	0	0	0
5/28/2024 9:32	52202	DEVO_T2	0	0	0	0	0	0	-2.4	-2.4	0	0	0	0	0	0
5/28/2024 9:33	53901	HALI_T2	1	1	0	1.3	0.8	-0.5	-1.36	-1.33	0	0	0	0	0	0
5/28/2024 9:33	53902	HALI_T2	3	3	0	2.2	1.8	-0.4	0	0	0	0	0	0	0	0
5/28/2024 9:33	13503	MCMI_T2	1	6	5	1	0.5	-0.5	-0.01	-0.01	0	0	0	0	0	0
5/28/2024 9:33	53903	HALI_T2	5	4	-1	0.96	0.75	-0.21	0	0	0	0	0	0	0	0
5/28/2024 9:37	13503	MCMI_T2	1	6	5	1	0.5	-0.5	-0.01	-0.01	0	0	0	0	0	0
5/28/2024 9:40	67402	WAKE_T2	0	0	0	0	0	0	0.32	0.49	1	1	0	600	600	0
5/28/2024 9:40	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 9:41	55002	NEWP_T1	4	11	7	0.55	0.69	0.14	-0.16	-0.13	0	0	0	0	0	0
5/28/2024 9:42	17002	RIRO_T2	5	4	-1	0.7	0.9	0.2	0.78	0.78	0	0	0	0	0	0
5/28/2024 9:42	55002	NEWP_T1	4	11	7	0.55	0.69	0.14	-0.16	-0.13	0	0	0	0	0	0
5/28/2024 9:43	55002	NEWP_T1	4	11	7	0.55	0.69	0.14	-0.16	-0.13	0	0	0	0	0	0
5/28/2024 9:44	55002	NEWP_T1	4	11	7	0.55	0.69	0.14	-0.16	-0.13	0	0	0	0	0	0
5/28/2024 9:49	65901	SAKR_T2	1	1	0	7.8	8	0.2	-1.06	-1.13	2	2	0	1500	1500	0
5/28/2024 9:52	67603	WARW_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
5/28/2024 9:52	67605	WARW_T1	5	3	-2	0.28	0.47	0.19	0	0	0	0	0	0	0	0
5/28/2024 9:52	14802	TREI_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
5/28/2024 9:52	14801	TREI_T2	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
5/28/2024 9:53	15702	TANN_T2	4	5	1	0.23	0.36	0.13	-0.18	-0.28	0	0	0	0	0	0
5/28/2024 9:53	15703	TANN_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
5/28/2024 9:53	67201	TEHI_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 9:53	67203	TEHI_T1	10	10	0	0.24	0.43	0.19	2.39	2.42	3	3	0	2100	2100	0
5/28/2024 9:54	67605	WARW_T1	5	3	-2	0.28	0.47	0.19	-2.41	-2.55	0	0	0	0	0	0
5/28/2024 9:55	45902	AUBU_T1	1	1	0	0.1	0.2	0.1	-0.69	-0.9	2	2	0	1200	1200	0
5/28/2024 9:56	45902	AUBU_T1	1	1	0	0.1	0.2	0.1	-1.38	-1.79	4	4	0	2400	2400	0
5/28/2024 9:56	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/28/2024 9:56	48302	ORWI_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
5/28/2024 9:57	60801	BUCK_T1	0	0	0	0	0	0	-0.45	-0.42	2	2	0	1200	1200	0
5/28/2024 9:57	67703	WERN_T2	0	0	0	0	0	0	0.06	0.06	1	1	0	900	900	0
5/28/2024 9:59	45902	AUBU_T1	1	1	0	0.1	0.2	0.1	-0.35	-0.45	1	1	0	600	600	0
5/28/2024 10:00	67502	WEWI_T2	2	3	1	0.55	0.6	0.05	0.07	-0.01	0	0	0	0	0	0
5/28/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-0.35	-0.34	1	1	0	900	900	0
5/28/2024 10:00	60801	BUCK_T1	0	0	0	0	0	0	-0.23	-0.21	1	1	0	600	600	0
5/28/2024 10:00	40505	CRES_T1	3	3	0	4.93	4.93	0	0.53	0.55	0	0	0	0	0	0
5/28/2024 10:00	41502	FAIR_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
5/28/2024 10:00	40504	CRES_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/28/2024 10:00	45501	DERR_T2	2	1	-1	0.15	0.4	0.25	1.64	1.82	4	4	0	3600	3600	0
5/28/2024 10:00	62102	ELAN_T1	0	0	0	0	0	0	0.96	0.98	0	0	0	0	0	0
5/28/2024 10:00	67805	WLAN_T1	0	0	0	0	0	0	-0.57	-0.67	0	0	0	0	0	0
5/28/2024 10:02	45501	DERR_T2	2	1	-1	0.15	0.4	0.25	0.82	0.91	2	2	0	1800	1800	0
5/28/2024 10:03	67805	WLAN_T1	0	0	0	0	0	0	-0.57	-0.67	0	0	0	0	0	0
5/28/2024 10:04	65402	MARI_T1	32	2	-30	0.13	0.4	0.27	-0.01	-0.01	0	0	0	0	0	0
5/28/2024 10:06	67503	WEWI_T2	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
5/28/2024 10:06	13302	ORVI_T2	2	2	0	0.6	0.15	-0.45	1.58	1.7	0	0	0	0	0	0
5/28/2024 10:06	67502	WEWI_T2	2	3	1	0.55	0.6	0.05	0	0	0	0	0	0	0	0
5/28/2024 10:10	17802	GILB_T1	3	4	1	0.57	0.45	-0.12	0.21	0.23	0	0	0	0	0	0
5/28/2024 10:11	52403	GRPA_T2	3	3	0	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
5/28/2024 10:11	17804	GILB_T2	5	5	0	0.42	0.4	-0.02	-0.53	-0.52	0	0	0	0	0	0
5/28/2024 10:11	52402	GRPA_T2	7	4	-3	0.24	0.4	0.16	-0.77	-0.76	0	0	0	0	0	0
5/28/2024 10:12	52402	GRPA_T2	7	4	-3	0.24	0.4	0.16	0	0	0	0	0	0	0	0
5/28/2024 10:12	52403	GRPA_T2	3	3	0	0.5	0.37	-0.13	0.25	0.23	0	0	0	0	0	0
5/28/2024 10:12	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 10:12	63401	HONY_T1	0	0	0	0	0	0	0.79	0.63	0	0	0	0	0	0
5/28/2024 10:13	52402	GRPA_T2	7	4	-3	0.24	0.4	0.16	0	0	0	0	0	0	0	0
5/28/2024 10:13	13503	MCMI_T2	5	5	0	0.44	0.52	0.08	-0.01	-0.01	0	0	0	0	0	0
5/28/2024 10:13	52403	GRPA_T2	3	3	0	0.5	0.37	-0.13	0.25	0.23	0	0	0	0	0	0
5/28/2024 10:13	47203	FAIO_T2	0	0	0	0	0	0	-1.38	-1.41	1	1	0	1200	1200	0
5/28/2024 10:14	13503	MCMI_T2	5	5	0	0.44	0.52	0.08	-0.01	-0.01	0	0	0	0	0	0
5/28/2024 10:15	13503	MCMI_T2	3	5	2	0.67	0.56	-0.11	-0.01	-0.01	0	0	0	0	0	0
5/28/2024 10:18	25501	MADI_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/28/2024 10:18	13502	MCMI_T1	2	3	1	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
5/28/2024 10:18	13501	MCMI_T1	1	1	0	0.2	0.4	0.2	0.12	0.13	0	0	0	0	0	0
5/28/2024 10:18	65503	MOJO_T2	0	0	0	0	0	0	-0.46	-0.45	1	1	0	900	900	0
5/28/2024 10:18	25503	MADI_T1	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
5/28/2024 10:18	25502	MADI_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/28/2024 10:19	52403	GRPA_T2	3	0	-3	0.37	0	-0.37	0.25	0.23	0	0	0	0	0	0
5/28/2024 10:19	52402	GRPA_T2	2	4	2	0.15	0.4	0.25	0	0	0	0	0	0	0	0
5/28/2024 10:19	67002	STHI_T2	0	0	0	0	0	0	0.85	0.94	0	0	0	0	0	0
5/28/2024 10:20	15602	NSTR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/28/2024 10:20	15601	NSTR_T2	3	4	1	0.97	0.75	-0.22	0	0	0	0	0	0	0	0
5/28/2024 10:20	65503	MOJO_T2	0	0	0	0	0	0	-0.46	-0.45	1	1	0	900	900	0
5/28/2024 10:20	15603	NSTR_T2	3	2	-1	0.33	0.55	0.22	-0.55	-0.57	0	0	0	0	0	0
5/28/2024 10:27	46302	ROHR_T1	4	4	0	1.5	1.48	-0.02	0	0	0	0	0	0	0	0
5/28/2024 10:27	46301	ROHR_T1	0	2	2	0	0.35	0.35	0.25	0.23	0	0	0	0	0	0
5/28/2024 10:29	66502	SMAN_T2	2	2	0	0.4	0.6	0.2	0.49	0.47	0	0	0	0	0	0
5/28/2024 10:29	67603	WARW_T1	0	0	0	0	0	0	0.24	0.32	0	0	0	0	0	0
5/28/2024 10:29	67605	WARW_T1	3	4	1	0.4	0.48	0.08	-0.85	-0.84	0	0	0	0	0	0
5/28/2024 10:29	46302	ROHR_T1	4	4	0	1.5	1.48	-0.02	0.16	0.18	0	0	0	0	0	0
5/28/2024 10:29	46301	ROHR_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
5/28/2024 10:29	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/28/2024 10:30	67605	WARW_T1	3	4	1	0.47	0.48	0.01	-0.85	-0.84	0	0	0	0	0	0
5/28/2024 10:30	14402	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/28/2024 10:30	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/28/2024 10:30	14403	SSLA_T1	3	3	0	0.33	0.4	0.07	0.91	0.99	0	0	0	0	0	0
5/28/2024 10:30	14401	SSLA_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
5/28/2024 10:30	14404	SSLA_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
5/28/2024 10:31	66501	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/28/2024 10:31	14602	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 10:31	67605	WARW_T1	3	4	1	0.47	0.48	0.01	-0.85	-0.84	0	0	0	0	0	0
5/28/2024 10:31	14601	SWHI_T1	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/28/2024 10:31	14603	SWHI_T1	7	10	3	0.44	0.44	0	-0.36	-0.36	0	0	0	0	0	0
5/28/2024 10:31	66502	SMAN_T2	1	2	1	0.8	0.3	-0.5	0.49	0.47	0	0	0	0	0	0
5/28/2024 10:31	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/28/2024 10:32	14404	SSLA_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
5/28/2024 10:32	14402	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/28/2024 10:32	46301	ROHR_T1	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
5/28/2024 10:32	14403	SSLA_T1	3	3	0	0.33	0.4	0.07	0.91	0.99	0	0	0	0	0	0
5/28/2024 10:32	14401	SSLA_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
5/28/2024 10:32	46302	ROHR_T1	4	5	1	1.48	1.36	-0.12	0.16	0.18	0	0	0	0	0	0
5/28/2024 10:35	43304	WATS_T2	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
5/28/2024 10:35	67702	WERN_T2	1	1	0	0.4	0.5	0.1	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/28/2024 10:35	43301	WATS_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
5/28/2024 10:35	67703	WERN_T2	0	0	0	0	0	0	0.18	0.3	2	2	0	1800	1800	0
5/28/2024 10:36	67702	WERN_T2	1	1	0	0.4	0.5	0.1	-0.02	-0.02	0	0	0	0	0	0
5/28/2024 10:36	45902	AUBU_T1	0	0	0	0	0	0	-0.39	-0.29	1	1	0	600	600	0
5/28/2024 10:36	67703	WERN_T2	0	0	0	0	0	0	0.09	0.15	1	1	0	900	900	0
5/28/2024 10:37	13704	SCHN_T2	2	2	0	0.5	0.4	-0.1	0.18	0.17	0	0	0	0	0	0
5/28/2024 10:37	57403	SPAN_T1	6	1	-5	0.22	0.5	0.28	0	0	0	0	0	0	0	0
5/28/2024 10:37	57401	SPAN_T1	0	0	0	0	0	0	-0.75	-0.61	1	1	0	600	600	0
5/28/2024 10:37	43402	BENT_T1	1	0	-1	0.2	0	-0.2	-0.61	-0.62	1	1	0	900	900	0
5/28/2024 10:37	45902	AUBU_T1	0	0	0	0	0	0	-0.79	-0.58	2	2	0	1200	1200	0
5/28/2024 10:38	67703	WERN_T2	0	0	0	0	0	0	0.3	0.28	2	2	0	1800	1800	0
5/28/2024 10:38	67702	WERN_T2	1	1	0	0.4	0.5	0.1	-0.02	-0.02	0	0	0	0	0	0
5/28/2024 10:38	43402	BENT_T1	1	0	-1	0.2	0	-0.2	-1.22	-1.24	2	2	0	1800	1800	0
5/28/2024 10:38	45902	AUBU_T1	0	0	0	0	0	0	-0.58	-0.76	2	2	0	1200	1200	0
5/28/2024 10:39	67703	WERN_T2	0	0	0	0	0	0	0.59	0.56	4	4	0	3600	3600	0
5/28/2024 10:39	57403	SPAN_T1	6	1	-5	0.22	0.5	0.28	0	0	0	0	0	0	0	0
5/28/2024 10:39	57401	SPAN_T1	0	0	0	0	0	0	-1.22	-1.46	2	2	0	1200	1200	0
5/28/2024 10:39	46004	BERW_T2	0	4	4	0	0	0	0.45	0.4	0	0	0	0	0	0
5/28/2024 10:39	46001	BERW_T1	0	0	0	0	0	0	1.47	1.41	0	0	0	0	0	0
5/28/2024 10:39	67702	WERN_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/28/2024 10:39	46002	BERW_T2	1	1	0	0.2	0.3	0.1	-0.89	-1.01	1	1	0	900	900	0
5/28/2024 10:40	11601	CEAL_T1	3	3	0	0.57	0.67	0.1	0	0	1	1	0	1200	1200	0
5/28/2024 10:40	55101	WERT_T1	0	0	0	0	0	0	-1.12	-1.91	3	4	1	2400	3300	900
5/28/2024 10:40	57401	SPAN_T1	0	0	0	0	0	0	-0.61	-0.73	1	1	0	600	600	0
5/28/2024 10:40	57403	SPAN_T1	6	1	-5	0.22	0.5	0.28	0	0	0	0	0	0	0	0
5/28/2024 10:42	57401	SPAN_T1	0	0	0	0	0	0	-0.61	-0.73	1	1	0	600	600	0
5/28/2024 10:42	57403	SPAN_T1	6	1	-5	0.22	0.5	0.28	0	0	0	0	0	0	0	0
5/28/2024 10:43	10805	CHHI_T2	2	2	0	4.8	4.65	-0.15	-0.59	-0.48	1	1	0	600	600	0
5/28/2024 10:44	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/28/2024 10:44	10801	CHHI_T1	2	2	0	0.4	0.15	-0.25	-0.37	-0.36	1	1	0	900	900	0
5/28/2024 10:44	10805	CHHI_T2	2	2	0	4.8	4.65	-0.15	-0.59	-0.48	1	1	0	600	600	0
5/28/2024 10:45	61803	EELI_T2	0	0	0	0	0	0	0.57	0.56	1	1	0	600	600	0
5/28/2024 10:46	41801	GOCI_T2	4	5	1	0.5	0.26	-0.24	0	0	0	0	0	0	0	0
5/28/2024 10:46	60101	COCA_T1	1	2	1	0.7	0.6	-0.1	0.56	0.63	0	0	0	0	0	0
5/28/2024 10:46	10801	CHHI_T1	2	3	1	0.15	0.43	0.28	-0.37	-0.36	1	1	0	900	900	0
5/28/2024 10:46	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 10:46	23902	EFMO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/28/2024 10:47	52204	DEVO_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/28/2024 10:47	52202	DEVO_T2	0	0	0	0	0	0	-2.21	-2.22	0	0	0	0	0	0
5/28/2024 10:49	11507	FREE_T2	0	0	0	0	0	0	1.56	1.62	0	0	0	0	0	0
5/28/2024 10:49	52202	DEVO_T2	0	0	0	0	0	0	-2.21	-2.22	0	0	0	0	0	0
5/28/2024 10:49	60101	COCA_T1	1	2	1	0.7	0.6	-0.1	0.56	0.63	0	0	0	0	0	0
5/28/2024 10:49	52204	DEVO_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/28/2024 10:50	52204	DEVO_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/28/2024 10:50	52202	DEVO_T2	0	0	0	0	0	0	-3.32	-3.34	0	0	0	0	0	0
5/28/2024 10:51	63302	GREE_T1	0	0	0	0	0	0	0.81	0.79	0	0	0	0	0	0
5/28/2024 10:52	60101	COCA_T1	1	2	1	0.7	0.6	-0.1	0.56	0.63	0	0	0	0	0	0
5/28/2024 10:54	45801	HEGI_T1	1	1	0	0.1	0.1	0	0.21	0.28	0	0	0	0	0	0
5/28/2024 10:58	64302	LINC_T2	0	0	0	0	0	0	1.34	1.31	0	0	0	0	0	0
5/28/2024 10:58	58303	NOTT_T2	0	0	0	0	0	0	0.84	0.58	1	1	0	900	900	0
5/28/2024 10:59	67402	WAKE_T2	0	0	0	0	0	0	0.62	0.66	1	1	0	600	600	0
5/28/2024 10:59	43201	MVIL_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
5/28/2024 10:59	67401	WAKE_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/28/2024 11:00	58302	NOTT_T1	0	0	0	0	0	0	-0.27	-0.11	1	1	0	1200	1200	0
5/28/2024 11:00	16402	MOPO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 11:00	16406	MOPO_T1	0	0	0	0	0	0	-0.53	-0.51	1	1	0	1200	1200	0
5/28/2024 11:01	64802	MONE_T2	0	0	0	0	0	0	0.45	0.5	0	0	0	0	0	0
5/28/2024 11:10	24204	PROV_T3	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
5/28/2024 11:10	24201	PROV_T3	1	4	3	6.9	1.9	-5	-1.1	-1.12	1	1	0	1200	1200	0
5/28/2024 11:11	41902	REED_T1	0	0	0	0	0	0	2.54	2.58	0	0	0	0	0	0
5/28/2024 11:12	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 11:17	66703	STRA_T1	1	1	0	0.3	0.2	-0.1	-0.16	-0.21	0	0	0	0	0	0
5/28/2024 11:17	66701	STRA_T1	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
5/28/2024 11:18	67605	WARW_T1	1	1	0	1.1	1.1	0	-0.82	-0.76	0	0	0	0	0	0
5/28/2024 11:18	59101	WALK_T2	0	0	0	0	0	0	0.2	0.24	0	0	0	0	0	0
5/28/2024 11:18	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/28/2024 11:20	67605	WARW_T1	1	1	0	1.1	1.1	0	-0.82	-0.76	0	0	0	0	0	0
5/28/2024 11:20	59101	WALK_T2	0	0	0	0	0	0	0.2	0.24	0	0	0	0	0	0
5/28/2024 11:20	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/28/2024 11:21	13704	SCHN_T2	1	1	0	0.2	0.2	0	0.2	0.1	0	0	0	0	0	0
5/28/2024 11:21	43301	WATS_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/28/2024 11:21	43302	WATS_T2	0	0	0	0	0	0	-0.2	-0.22	3	3	0	2400	2400	0
5/28/2024 11:22	13704	SCHN_T2	1	1	0	0.2	0.2	0	0.2	0.1	0	0	0	0	0	0
5/28/2024 11:22	15702	TANN_T2	1	2	1	0.5	0.55	0.05	-0.2	-0.25	0	0	0	0	0	0
5/28/2024 11:22	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
5/28/2024 11:23	58001	WCAR_T1	5	5	0	0.7	0.58	-0.12	0	0	0	0	0	0	0	0
5/28/2024 11:23	58003	WCAR_T1	4	2	-2	0.55	0.65	0.1	0.41	0.38	1	1	0	600	600	0
5/28/2024 11:23	27502	WEIS_T2	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
5/28/2024 11:24	58003	WCAR_T1	4	2	-2	0.55	0.65	0.1	0.41	0.38	1	1	0	600	600	0
5/28/2024 11:24	40201	BEGA_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/28/2024 11:24	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
5/28/2024 11:24	15702	TANN_T2	1	2	1	0.5	0.55	0.05	-0.25	-0.26	0	0	0	0	0	0
5/28/2024 11:24	58001	WCAR_T1	5	5	0	0.7	0.58	-0.12	0	0	0	0	0	0	0	0
5/28/2024 11:25	14603	SWHI_T1	5	9	4	0.42	0.35	-0.07	0	0	0	0	0	0	0	0
5/28/2024 11:25	14604	SWHI_T1	0	0	0	0	0	0	-0.71	-0.72	2	2	0	2100	2100	0
5/28/2024 11:25	40201	BEGA_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/28/2024 11:25	15103	UPHA_T2	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
5/28/2024 11:26	64902	MILL_T2	0	0	0	0	0	0	-0.26	-0.29	1	1	0	900	900	0
5/28/2024 11:26	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/28/2024 11:27	45702	LIND_T2	1	2	1	0.5	0.75	0.25	-0.36	-0.36	0	0	0	0	0	0
5/28/2024 11:27	64802	MILL_T2	0	0	0	0	0	0	-0.26	-0.29	1	1	0	900	900	0
5/28/2024 11:28	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/28/2024 11:29	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 11:29	10105	ALLE_T3	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/28/2024 11:29	65402	MARI_T1	0	0	0	0	0	0	167.92	167.92	0	0	0	0	0	0
5/28/2024 11:31	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/28/2024 11:33	23901	EFMO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/28/2024 11:33	41502	FAIR_T2	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
5/28/2024 11:44	44301	BEAV_T2	1	1	0	1	0	-1	1.08	0.98	2	2	0	1500	1500	0
5/28/2024 11:51	15103	UPHA_T2	0	0	0	0	0	0	0.72	0.66	0	0	0	0	0	0
5/28/2024 11:52	53903	HALI_T2	3	3	0	0.9	0.77	-0.13	-0.04	-0.03	0	0	0	0	0	0
5/28/2024 11:52	53902	HALI_T2	1	1	0	4.5	4.2	-0.3	0	0	0	0	0	0	0	0
5/28/2024 11:52	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.39	-0.44	0	0	0	0	0	0
5/28/2024 11:52	53901	HALI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/28/2024 11:54	64701	LITI_T1	0	0	0	0	0	0	0.76	0.6	0	0	0	0	0	0
5/28/2024 11:54	51002	NHAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 11:54	51004	NHAR_T1	1	1	0	6.6	6.6	0	-0.12	-0.1	0	0	0	0	0	0
5/28/2024 11:55	53902	HALI_T2	1	1	0	4.5	4.2	-0.3	0	0	0	0	0	0	0	0
5/28/2024 11:55	63501	HEID_TBK1-2	1	2	1	0.1	0.4	0.3	0.92	0.82	2	2	0	1800	1800	0
5/28/2024 11:55	53903	HALI_T2	3	3	0	0.9	0.77	-0.13	-0.03	-0.03	0	0	0	0	0	0
5/28/2024 11:55	53901	HALI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/28/2024 11:57	63501	HEID_TBK1-2	1	2	1	0.1	0.4	0.3	0.46	0.41	1	1	0	900	900	0
5/28/2024 11:59	67401	WAKE_T2	2	1	-1	0.15	0.1	-0.05	-0.75	-0.77	0	0	0	0	0	0
5/28/2024 12:00	46505	LOHA_T1	0	0	0	0	0	0	-0.23	-0.24	1	1	0	600	600	0
5/28/2024 12:00	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 12:01	58402	MORO_T1	0	0	0	0	0	0	-1.53	-1.5	6	6	0	4800	4800	0
5/28/2024 12:02	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 12:02	58402	MORO_T1	0	0	0	0	0	0	-0.76	-0.75	3	3	0	2400	2400	0
5/28/2024 12:03	66903	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/28/2024 12:03	66901	SHIL_T2	0	0	0	0	0	0	-0.69	-0.63	0	0	0	0	0	0
5/28/2024 12:03	66902	SHIL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/28/2024 12:04	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/28/2024 12:08	16504	STRO_T1	0	0	0	0	0	0	0.59	0.61	1	1	0	1200	1200	0
5/28/2024 12:11	57203	ROSS_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
5/28/2024 12:11	57205	ROSS_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/28/2024 12:18	52402	GRPA_T2	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
5/28/2024 12:18	52401	GRPA_T2	1	1	0	2.2	0	-2.2	0	0	0	0	0	0	0	0
5/28/2024 12:18	52403	GRPA_T2	0	4	4	0	0.35	0.35	0.27	0.3	0	0	0	0	0	0
5/28/2024 12:19	15702	TANN_T2	1	1	0	0.4	0.1	-0.3	-0.2	-0.2	0	0	0	0	0	0
5/28/2024 12:19	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
5/28/2024 12:20	13704	SCHN_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
5/28/2024 12:21	27504	WEIS_T1	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
5/28/2024 12:24	58003	WCAR_T1	19	3	-16	0.32	0.6	0.28	1.16	1.14	0	0	0	0	0	0
5/28/2024 12:24	58001	WCAR_T1	6	4	-2	0.78	0.55	-0.23	0	0	0	0	0	0	0	0
5/28/2024 12:24	13704	SCHN_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
5/28/2024 12:26	58001	WCAR_T1	6	4	-2	0.78	0.55	-0.23	0	0	0	0	0	0	0	0
5/28/2024 12:26	58003	WCAR_T1	19	3	-16	0.32	0.6	0.28	1.16	1.14	0	0	0	0	0	0
5/28/2024 12:27	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/28/2024 12:27	40201	BEGA_T2	1	1	0	1.5	0.6	-0.9	0	0	0	0	0	0	0	0
5/28/2024 12:28	58001	WCAR_T1	6	4	-2	0.78	0.55	-0.23	0	0	0	0	0	0	0	0
5/28/2024 12:28	58003	WCAR_T1	19	3	-16	0.32	0.6	0.28	1.16	1.14	0	0	0	0	0	0
5/28/2024 12:29	29402	BELT_T1	1	1	0	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
5/28/2024 12:29	46002	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 12:29	10102	ALLE_T2	1	1	0	7.1	7	-0.1	0	0	0	0	0	0	0	0
5/28/2024 12:29	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 12:29	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	2	2	0	1800	1800	0
5/28/2024 12:29	10203	ALLE_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/28/2024 12:29	46004	BERW_T2	1	0	-1	0.1	0	-0.1	0.52	0.53	0	0	0	0	0	0
5/28/2024 12:30	42902	MIDD_T2	1	1	0	0.4	0.7	0.3	-0.3	-0.37	1	1	0	600	600	0
5/28/2024 12:30	42903	MIDD_T2	2	2	0	0.9	0.25	-0.65	0	0	0	0	0	0	0	0
5/28/2024 12:30	29402	BELT_T1	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
5/28/2024 12:30	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/28/2024 12:30	58001	WCAR_T1	4	4	0	0.55	0.8	0.25	0	0	0	0	0	0	0	0
5/28/2024 12:30	58003	WCAR_T1	3	4	1	0.6	0.65	0.05	1.16	1.14	0	0	0	0	0	0
5/28/2024 12:31	29402	BELT_T1	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
5/28/2024 12:31	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/28/2024 12:31	51603	DUKE_T1	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
5/28/2024 12:32	60101	COCA_T1	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
5/28/2024 12:32	60102	COCA_T1	0	0	0	0	0	0	-0.65	-0.47	3	3	0	2100	2100	0
5/28/2024 12:33	10805	CHHI_T2	2	4	2	4.8	4.85	0.05	-0.59	-0.53	1	1	0	600	600	0
5/28/2024 12:33	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/28/2024 12:33	29402	BELT_T1	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
5/28/2024 12:34	42902	MIDD_T2	1	1	0	0.4	0.7	0.3	-0.3	-0.37	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/28/2024 12:34	44301	BEAV_T2	0	1	1	0	1.2	1.2	0.3	1.19	2	2	0	1500	1500	0
5/28/2024 12:34	29401	BELT_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
5/28/2024 12:34	42903	MIDD_T2	2	2	0	0.9	0.25	-0.65	0	0	0	0	0	0	0	0
5/28/2024 12:34	10805	CHHI_T2	2	4	2	4.8	4.85	0.05	-0.59	-0.53	1	1	0	600	600	0
5/28/2024 12:34	29402	BELT_T1	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
5/28/2024 12:35	11507	FREE_T2	1	1	0	0.4	0.1	-0.3	1.87	1.25	0	0	0	0	0	0
5/28/2024 12:36	60101	CDCA_T1	2	2	0	0.45	0.6	0.15	0.69	0.72	0	0	0	0	0	0
5/28/2024 12:38	47901	HRDG_T1	0	0	0	0	0	0	1.18	1.53	1	1	0	1200	1200	0
5/28/2024 12:39	53501	EVIL_T2	1	2	1	1.5	0.95	-0.55	0	0	0	0	0	0	0	0
5/28/2024 12:39	53502	EVIL_T2	0	1	1	0	0	0	0.09	0.28	2	2	0	1200	1200	0
5/28/2024 12:40	64702	LITI_T2	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
5/28/2024 12:42	52403	GRPA_T2	2	3	1	0.35	0.4	0.05	0.32	0.33	0	0	0	0	0	0
5/28/2024 12:42	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/28/2024 12:42	52402	GRPA_T2	5	2	-3	0.12	0.25	0.13	0	0	0	0	0	0	0	0
5/28/2024 12:43	64702	LITI_T2	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
5/28/2024 12:44	52403	GRPA_T2	2	3	1	0.35	0.4	0.05	0.32	0.33	0	0	0	0	0	0
5/28/2024 12:44	52402	GRPA_T2	5	2	-3	0.12	0.25	0.13	0	0	0	0	0	0	0	0
5/28/2024 12:44	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/28/2024 12:45	53903	HALI_T2	2	2	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
5/28/2024 12:45	64201	KINZ_T1	0	0	0	0	0	0	-0.23	-0.13	4	4	0	2100	2100	0
5/28/2024 12:45	53901	HALI_T2	0	3	3	0	0.43	0.43	-1.23	-1.22	0	0	0	0	0	0
5/28/2024 12:45	47001	HUGH_T2	0	0	0	0	0	0	-0.57	-0.53	0	0	0	0	0	0
5/28/2024 12:45	64204	KINZ_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/28/2024 12:45	53902	HALI_T2	1	2	1	4.3	2.5	-1.8	0	0	0	0	0	0	0	0
5/28/2024 12:47	47001	HUGH_T2	0	0	0	0	0	0	-0.57	-0.53	0	0	0	0	0	0
5/28/2024 12:48	12501	MITR_T2	1	1	0	5.1	1.7	-3.4	0	0	0	0	0	0	0	0
5/28/2024 12:48	12505	MITR_T2	0	0	0	0	0	0	1.75	1.77	0	0	0	0	0	0
5/28/2024 12:48	12502	MITR_T2	1	2	1	7.1	7.3	0.2	0	0	0	0	0	0	0	0
5/28/2024 12:53	59302	MCAL_T1	0	0	0	0	0	0	0.06	-0.01	1	1	0	600	600	0
5/28/2024 12:55	55002	NEWP_T1	6	10	4	0.47	0.75	0.28	-0.3	-0.27	0	0	0	0	0	0
5/28/2024 12:55	12701	MACU_T1	0	1	1	0	0	0	0.58	0.54	0	0	0	0	0	0
5/28/2024 12:56	12701	MACU_T1	0	1	1	0	0	0	0.29	0.27	0	0	0	0	0	0
5/28/2024 12:57	59301	MCAL_T1	0	0	0	0	0	0	-0.88	-0.93	0	0	0	0	0	0
5/28/2024 12:57	46802	HEPB_T1	1	1	0	1.2	1.1	-0.1	-0.1	-0.07	0	0	0	0	0	0
5/28/2024 12:58	55002	NEWP_T1	6	10	4	0.47	0.75	0.28	-0.1	-0.09	0	0	0	0	0	0
5/28/2024 12:58	46802	HEPB_T1	1	1	0	1.2	1.1	-0.1	-0.1	-0.07	0	0	0	0	0	0
5/28/2024 12:59	12701	MACU_T1	0	1	1	0	0	0	0.58	0.54	0	0	0	0	0	0
5/28/2024 13:00	58401	MORO_T1	0	0	0	0	0	0	-1.13	-1.11	1	1	0	600	600	0
5/28/2024 13:03	54203	PENN_T1	18	19	1	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
5/28/2024 13:03	54206	PENN_T2	0	0	0	0	0	0	0.18	0.11	0	0	0	0	0	0
5/28/2024 13:03	54201	PENN_T1	6	8	2	1.1	0.84	-0.26	-0.62	-0.67	0	0	0	0	0	0
5/28/2024 13:04	59101	WALK_T2	0	264	264	0	0	0	0.17	-0.22	0	0	0	0	0	0
5/28/2024 13:05	16402	MOPO_T1	1	2	1	0.2	0.6	0.4	0.5	0.46	0	0	0	0	0	0
5/28/2024 13:05	16401	MOPO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/28/2024 13:06	59101	WALK_T2	0	264	264	0	0	0	0.17	-0.22	0	0	0	0	0	0
5/28/2024 13:06	54201	PENN_T1	6	8	2	1.1	0.84	-0.26	-0.62	-0.67	0	0	0	0	0	0
5/28/2024 13:06	54203	PENN_T1	18	19	1	0.67	0.63	-0.04	0.64	0.62	0	0	0	0	0	0
5/28/2024 13:07	14801	TREI_T2	1	1	0	0.7	0.8	0.1	0.75	0.77	0	0	0	0	0	0
5/28/2024 13:08	54206	PENN_T2	0	0	0	0	0	0	0.11	0.15	0	0	0	0	0	0
5/28/2024 13:09	14801	TREI_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/28/2024 13:09	14802	TREI_T2	0	0	0	0	0	0	0.76	0.8	0	0	0	0	0	0
5/28/2024 13:11	67201	TEHI_T1	1	17	16	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/28/2024 13:11	67203	TEHI_T1	1	1	0	0.5	0.6	0.1	2.09	2.21	3	3	0	2400	2400	0
5/28/2024 13:13	45602	WOOL_T1	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
5/28/2024 13:13	67203	TEHI_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/28/2024 13:13	67201	TEHI_T1	1	17	16	0.1	0.4	0.3	0.94	0.96	2	2	0	1500	1500	0
5/28/2024 13:14	45602	WOOL_T1	0	0	0	0	0	0	1.6	1.58	0	0	0	0	0	0
5/28/2024 13:15	26603	BROO_T1	0	0	0	0	0	0	0.54	0.6	0	0	0	0	0	0
5/28/2024 13:16	45502	DERR_T2	4	1	-3	0.28	0	-0.28	0.26	0.2	1	1	0	300	300	0
5/28/2024 13:16	16102	BING_T2	0	1	1	0	0.1	0.1	-0.69	-0.63	1	1	0	1200	1200	0
5/28/2024 13:16	45501	DERR_T2	2	3	1	1	0.8	-0.2	0	0	0	0	0	0	0	0
5/28/2024 13:20	26603	BROO_T1	0	0	0	0	0	0	0.54	0.6	0	0	0	0	0	0
5/28/2024 13:21	61002	DONV_T2	0	0	0	0	0	0	-0.47	-0.46	2	2	0	1200	1200	0
5/28/2024 13:22	29401	BELT_T1	2	1	-1	0.35	0.8	0.45	0	0	0	0	0	0	0	0
5/28/2024 13:22	29402	BELT_T1	1	1	0	7.7	7.2	-0.5	0	0	0	0	0	0	0	0
5/28/2024 13:23	29401	BELT_T1	2	1	-1	0.35	0.8	0.45	0	0	0	0	0	0	0	0
5/28/2024 13:23	29402	BELT_T1	1	1	0	7.7	7.2	-0.5	0	0	0	0	0	0	0	0
5/28/2024 13:26	10805	CHHI_T2	2	3	1	5.05	9.4	4.35	-0.62	-0.62	1	1	0	600	600	0
5/28/2024 13:27	24104	EHAZ_T1	0	1	1	0	0.2	0.2	-0.83	-0.71	1	1	0	1200	1200	0
5/28/2024 13:27	20603	GRWO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/28/2024 13:27	24101	EHAZ_T1	19	10	-9	0.29	0.43	0.14	0	0	0	0	0	0	0	0
5/28/2024 13:27	20601	GRWO_T2	0	1	1	0	0	0	0.22	0.22	0	0	0	0	0	0
5/28/2024 13:27	24102	EHAZ_T1	3	7	4	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
5/28/2024 13:27	24105	EHAZ_T1	4	4	0	5.9	5.48	-0.42	0	0	0	0	0	0	0	0
5/28/2024 13:28	24102	EHAZ_T1	3	7	4	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
5/28/2024 13:28	24101	EHAZ_T1	19	10	-9	0.29	0.43	0.14	0	0	0	0	0	0	0	0
5/28/2024 13:28	24103	EHAZ_T1	0	0	0	0	0	0	-0.21	-0.32	0	0	0	0	0	0
5/28/2024 13:28	24104	EHAZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/28/2024 13:28	24105	EHAZ_T1	4	4	0	5.9	5.48	-0.42	0	0	0	0	0	0	0	0
5/28/2024 13:29	44301	BEAV_T2	2	2	0	0.9	0.8	-0.1	0.57	0.45	2	2	0	1500	1500	0
5/28/2024 13:30	63305	GREE_T1	0	0	0	0	0	0	-1.65	-1.69	1	1	0	900	900	0
5/28/2024 13:31	60904	DONG_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/28/2024 13:31	60902	DONG_T2	0	2	2	0	0.4	0.4	0.17	0.32	0	0	0	0	0	0
5/28/2024 13:32	40101	HUNT_T2	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
5/28/2024 13:32	65502	MOJO_T2	0	0	0	0	0	0	-0.44	-0.43	1	1	0	900	900	0
5/28/2024 13:32	61702	ELIZ_T2	0	0	0	0	0	0	-1.55	-1.52	2	2	0	1500	1500	0
5/28/2024 13:33	63501	HEID_TBK1-2	2	0	-2	0.2	0	-0.2	0.51	0.43	1	1	0	900	900	0
5/28/2024 13:33	65401	MARI_T1	3	12	9	0.13	0	-0.13	-0.01	-0.01	0	0	0	0	0	0
5/28/2024 13:34	65401	MARI_T1	3	12	9	0.13	0	-0.13	-0.01	-0.01	0	0	0	0	0	0
5/28/2024 13:35	65503	MOJO_T2	0	0	0	0	0	0	-0.4	-0.36	1	1	0	900	900	0
5/28/2024 13:35	12502	MITR_T2	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
5/28/2024 13:35	12505	MITR_T2	0	0	0	0	0	0	1.95	1.66	0	0	0	0	0	0
5/28/2024 13:35	12501	MITR_T2	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
5/28/2024 13:36	13905	SEID_T1	0	0	0	0	0	0	0.67	0.72	0	0	0	0	0	0
5/28/2024 13:36	58402	MORO_T1	0	0	0	0	0	0	-0.68	-0.76	3	3	0	2400	2400	0
5/28/2024 13:36	65502	MOJO_T2	0	0	0	0	0	0	-0.44	-0.43	1	1	0	900	900	0
5/28/2024 13:37	42802	SELI_T1	0	0	0	0	0	0	-1.52	-1.53	1	1	0	900	900	0
5/28/2024 13:39	14103	TRUM_T2	2	3	1	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
5/28/2024 13:39	67001	STHI_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
5/28/2024 13:39	14101	TRUM_T2	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
5/28/2024 13:39	17002	RIRO_T2	2	2	0	0.2	0.4	0.2	0.94	0.85	0	0	0	0	0	0
5/28/2024 13:39	14102	TRUM_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/28/2024 13:41	66504	SMAN_T2	0	1	1	0	0.1	0.1	-2.17	-2.05	2	2	0	2400	2400	0
5/28/2024 13:41	66502	SMAN_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/28/2024 13:41	54206	PENN_T2	0	0	0	0	0	0	0.05	0.17	0	0	0	0	0	0
5/28/2024 13:41	66501	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/28/2024 13:42	66504	SMAN_T2	0	1	1	0	0.1	0.1	-1.09	-1.03	1	1	0	1200	1200	0
5/28/2024 13:42	64904	MILL_T1	0	0	0	0	0	0	0.08	0.12	0	0	0	0	0	0
5/28/2024 13:42	66501	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/28/2024 13:42	67503	WEWI_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
5/28/2024 13:42	67502	WEWI_T2	1	2	1	0.3	0.55	0.25	0	0	0	0	0	0	0	0
5/28/2024 13:42	66502	SMAN_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/28/2024 13:45	61801	EELI_T2	0	0	0	0	0	0	-0.7	-0.68	2	2	0	1200	1200	0
5/28/2024 13:45	51604	DUKE_T2	0	0	0	0	0	0	-1.05	-1.03	1	1	0	900	900	0
5/28/2024 13:45	62605	ENGL_T1	1	0	-1	6.1	0	-6.1	-0.83	-0.85	0	0	0	0	0	0
5/28/2024 13:46	51604	DUKE_T2	0	0	0	0	0	0	-1.05	-1.03	1	1	0	900	900	0
5/28/2024 13:46	65402	MARI_T1	0	1	1	0	0.1	0.1	83.96	83.96	0	0	0	0	0	0
5/28/2024 13:46	65401	MARI_T1	12	2	-10	0.63	0	-0.63	0	0	0	0	0	0	0	0
5/28/2024 13:46	55102	WERT_T2	0	0	0	0	0	0	-1.02	-1.04	2	2	0	1200	1200	0
5/28/2024 13:47	58202	NEWV_T1	0	0	0	0	0	0	0.78	0.82	0	0	0	0	0	0
5/28/2024 13:47	10801	CHHI_T1	2	1	-1	0.3	0.2	-0.1	-0.83	-0.91	2	2	0	1500	1500	0
5/28/2024 13:49	58003	WCAR_T1	3	4	1	0.53	0.7	0.17	0	0	0	0	0	0	0	0
5/28/2024 13:49	58001	WCAR_T1	3	4	1	0.43	0.85	0.42	1.06	1.11	0	0	0	0	0	0
5/28/2024 13:51	63304	GREE_T1	0	0	0	0	0	0	-1.12	-1.13	0	0	0	0	0	0
5/28/2024 13:52	43105	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/28/2024 13:52	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 13:52	63304	GREE_T1	0	0	0	0	0	0	-1.12	-1.13	0	0	0	0	0	0
5/28/2024 13:52	43103	SMIL_T2	4	2	-2	0.13	0.2	0.07	-0.55	-0.56	0	0	0	0	0	0
5/28/2024 13:52	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/28/2024 13:52	43102	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 13:53	41001	LAUR_T2	3	18	15	0.73	0.23	-0.5	0	0	0	0	0	0	0	0
5/28/2024 13:53	43103	SMIL_T2	4	2	-2	0.13	0.2	0.07	-0.55	-0.56	0	0	0	0	0	0
5/28/2024 13:53	43105	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/28/2024 13:53	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/28/2024 13:53	41002	LAUR_T2	2	8	6	1.2	0.4	-0.8	0.11	0.13	0	0	0	0	0	0
5/28/2024 13:54	12803	MICK_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/28/2024 13:54	12801	MICK_T1	0	0	0	0	0	0	-0.45	-0.33	1	1	0	600	600	0
5/28/2024 13:55	13503	MCMI_T2	3	1	-2	0.53	0.4	-0.13	-0.01	0.03	0	0	0	0	0	0
5/28/2024 13:57	27503	WEIS_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
5/28/2024 13:57	27502	WEIS_T2	0	0	0	0	0	0	-0.26	-0.3	0	0	0	0	0	0
5/28/2024 13:58	44703	MUNC_T2	0	0	0	0	0	0	0.96	1.01	0	0	0	0	0	0
5/28/2024 14:00	65004	NEFF_T2	0	0	0	0	0	0	-0.69	-0.7	1	1	0	600	600	0
5/28/2024 14:00	67502	WEWI_T2	2	5	3	0.55	0.38	-0.17	-0.83	-0.86	1	1	0	900	900	0
5/28/2024 14:00	55101	WERT_T1	0	0	0	0	0	0	-1.96	-1.75	4	4	0	3300	3300	0
5/28/2024 14:00	67503	WEWI_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
5/28/2024 14:01	20403	ASHF_T2	2	8	6	1.2	0.35	-0.85	0	0	0	0	0	0	0	0
5/28/2024 14:01	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 14:01	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0.01	0.02	0	0	0	0	0	0
5/28/2024 14:02	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 14:02	67502	WEWI_T2	2	5	3	0.55	0.38	-0.17	-0.83	-0.86	1	1	0	900	900	0
5/28/2024 14:02	20403	ASHF_T2	2	8	6	1.2	0.35	-0.85	1.72	1.49	0	0	0	0	0	0
5/28/2024 14:02	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/28/2024 14:03	55105	WERT_T1	0	0	0	0	0	0	0.05	0.07	1	1	0	900	900	0
5/28/2024 14:03	11103	EGYP_T1	0	0	0	0	0	0	0.59	0.62	0	0	0	0	0	0
5/28/2024 14:03	67502	WEWI_T2	2	5	3	0.55	0.38	-0.17	-0.83	-0.86	1	1	0	900	900	0
5/28/2024 14:03	67503	WEWI_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
5/28/2024 14:04	65401	MARI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 14:04	67502	WEWI_T2	2	5	3	0.55	0.38	-0.17	0	0	0	0	0	0	0	0
5/28/2024 14:04	67503	WEWI_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
5/28/2024 14:04	65402	MARI_T1	0	1	1	0	0.1	0.1	83.96	83.96	0	0	0	0	0	0
5/28/2024 14:04	11102	EGYP_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
5/28/2024 14:06	65402	MARI_T1	0	1	1	0	0.1	0.1	83.96	83.96	0	0	0	0	0	0
5/28/2024 14:06	65401	MARI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/28/2024 14:07	44301	BEAV_T2	3	8	5	0.63	0.24	-0.39	0.46	0.32	2	2	0	1500	1500	0
5/28/2024 14:08	43101	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 14:08	43102	SMIL_T2	0	0	0	0	0	0	-0.52	-0.53	1	1	0	600	600	0
5/28/2024 14:08	53502	EVIL_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
5/28/2024 14:08	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 14:08	43103	SMIL_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/28/2024 14:08	53501	EVIL_T2	2	1	-1	0.15	0.6	0.45	-1.14	-1.11	4	4	0	2300	2300	0
5/28/2024 14:09	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 14:09	44301	BEAV_T2	3	8	5	0.63	0.24	-0.39	0.32	-0.52	2	2	0	1500	1500	0
5/28/2024 14:10	43102	SMIL_T2	0	0	0	0	0	0	-0.53	-0.54	1	1	0	600	600	0
5/28/2024 14:10	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 14:10	44301	BEAV_T2	3	8	5	0.63	0.24	-0.39	0.32	-0.52	2	2	0	1500	1500	0
5/28/2024 14:10	43101	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 14:10	43103	SMIL_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/28/2024 14:12	12501	MITR_T2	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
5/28/2024 14:12	12502	MITR_T2	2	1	-1	4.75	7.2	2.45	0	0	0	0	0	0	0	0
5/28/2024 14:12	53902	HALI_T2	1	1	0	4.3	4.5	0.2	0	0	0	0	0	0	0	0
5/28/2024 14:12	12505	MITR_T2	0	0	0	0	0	0	1.62	2.39	0	0	0	0	0	0
5/28/2024 14:12	53903	HALI_T2	2	3	1	0.7	0.77	0.07	0	0	0	0	0	0	0	0
5/28/2024 14:12	53901	HALI_T2	0	0	0	0	0	0	-1.23	-1.2	0	0	0	0	0	0
5/28/2024 14:13	67605	WARW_T1	1	1	0	1	0.2	-0.8	-0.69	-0.66	0	0	0	0	0	0
5/28/2024 14:14	67605	WARW_T1	1	1	0	1	0.2	-0.8	-0.69	-0.66	0	0	0	0	0	0
5/28/2024 14:15	67605	WARW_T1	1	0	-1	0.2	0	-0.2	-0.69	-0.66	0	0	0	0	0	0
5/28/2024 14:16	67605	WARW_T1	1	0	-1	0.2	0	-0.2	-0.69	-0.66	0	0	0	0	0	0
5/28/2024 14:16	43301	WATS_T2	1	0	-1	0.5	0	-0.5	-0.49	-0.46	1	1	0	900	900	0
5/28/2024 14:16	44301	BEAV_T2	5	5	0	0.24	0.28	0.04	0.32	-0.52	2	2	0	1500	1500	0
5/28/2024 14:16	67603	WARW_T1	0	0	0	0	0	0	0.42	0.5	0	0	0	0	0	0
5/28/2024 14:17	58401	MORO_T1	0	0	0	0	0	0	-1.09	-1.11	1	1	0	600	600	0
5/28/2024 14:17	67605	WARW_T1	1	0	-1	0.2	0	-0.2	-0.69	-0.66	0	0	0	0	0	0
5/28/2024 14:18	66503	SMAN_T2	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
5/28/2024 14:18	67605	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/28/2024 14:18	48302	ORWI_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/28/2024 14:18	45901	AUBU_T1	0	0	0	0	0	0	1.87	2.15	0	0	0	0	0	0
5/28/2024 14:18	67204	TEHI_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
5/28/2024 14:18	67603	WARW_T1	0	0	0	0	0	0	0.21	0.25	0	0	0	0	0	0
5/28/2024 14:18	45902	AUBU_T1	0	0	0	0	0	0	-1.9	-1.63	3	3	0	1800	1800	0
5/28/2024 14:19	14603	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 14:19	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 14:19	67801	WLAN_T1	0	0	0	0	0	0	0.18	0.13	0	0	0	0	0	0
5/28/2024 14:19	40302	TAMA_T3	1	1	0	0.1	0.1	0	0.22	0.24	0	0	0	0	0	0
5/28/2024 14:19	14605	SWHI_T1	0	0	0	0	0	0	1.7	1.69	1	1	0	1200	1200	0
5/28/2024 14:22	60102	COCA_T1	0	0	0	0	0	0	-0.17	-0.19	3	3	0	2100	2100	0
5/28/2024 14:23	55101	WERT_T1	0	0	0	0	0	0	-1.94	-1.9	4	4	0	3300	3300	0
5/28/2024 14:23	63801	HEMP_T1	0	0	0	0	0	0	-0.11	-0.14	1	1	0	900	900	0
5/28/2024 14:23	63804	HEMP_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
5/28/2024 14:23	64704	LITI_T1	0	0	0	0	0	0	0.11	0.14	1	1	0	600	600	0
5/28/2024 14:23	64701	LITI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 14:25	65402	MARI_T1	1	0	-1	0.1	0	-0.1	83.96	83.96	0	0	0	0	0	0
5/28/2024 14:25	65401	MARI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/28/2024 14:27	64702	LITI_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/28/2024 14:27	65401	MARI_T1	1	0	-1	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/28/2024 14:27	65402	MARI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/28/2024 14:29	50701	SMEC_T1	0	0	0	0	0	0	-0.37	-0.31	0	0	0	0	0	0
5/28/2024 14:29	40101	HUNT_T2	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
5/28/2024 14:30	41901	REED_T1	0	0	0	0	0	0	-1.21	-1.16	1	1	0	900	900	0
5/28/2024 14:30	41902	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/28/2024 14:31	50701	SMEC_T1	0	0	0	0	0	0	-0.37	-0.31	0	0	0	0	0	0
5/28/2024 14:31	65501	MOJO_T1	0	0	0	0	0	0	-0.67	-0.66	1	1	0	900	900	0
5/28/2024 14:33	54201	PENN_T1	12	11	-1	0.76	0.75	-0.01	-0.6	-0.62	0	0	0	0	0	0
5/28/2024 14:33	46801	HEPB_T2	2	2	0	0.5	0.6	0.1	0.85	0.85	0	0	0	0	0	0
5/28/2024 14:33	54203	PENN_T1	18	18	0	0.89	0.72	-0.17	0	0	0	0	0	0	0	0
5/28/2024 14:33	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 14:34	41902	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/28/2024 14:34	43301	WATS_T2	0	0	0	0	0	0	-0.46	-0.49	1	1	0	900	900	0
5/28/2024 14:34	41903	REED_T1	0	0	0	0	0	0	0.84	1.04	2	2	0	2400	2400	0
5/28/2024 14:36	57104	SPHI_T2	1	3	2	0.3	0.13	-0.17	-1.35	-1.35	1	1	0	900	900	0
5/28/2024 14:36	57106	SPHI_T2	3	3	0	0.53	0.93	0.4	0	0	0	0	0	0	0	0
5/28/2024 14:36	57101	SPHI_T2	6	6	0	0.45	0.73	0.28	0	0	0	0	0	0	0	0
5/28/2024 14:37	13704	SCHN_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
5/28/2024 14:37	57402	SPAN_T2	0	0	0	0	0	0	-0.97	-0.95	0	0	0	0	0	0
5/28/2024 14:39	26601	BROO_T1	0	0	0	0	0	0	-0.18	-0.19	1	1	0	600	600	0
5/28/2024 14:41	29401	BELT_T1	1	0	-1	0.2	0	-0.2	0	0	1	1	0	900	900	0
5/28/2024 14:41	29402	BELT_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
5/28/2024 14:42	29402	BELT_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
5/28/2024 14:42	64702	LITI_T2	0	0	0	0	0	0	-0.05	0.01	0	0	0	0	0	0
5/28/2024 14:42	29401	BELT_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/28/2024 14:43	64704	LITI_T1	0	0	0	0	0	0	0.14	0.23	1	1	0	600	600	0
5/28/2024 14:43	64701	LITI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 14:44	20603	GRWO_T2	0	0	0	0	0	0	-0.44	-0.5	1	1	0	900	900	0
5/28/2024 14:44	64702	LITI_T2	0	0	0	0	0	0	-0.05	0.01	0	0	0	0	0	0
5/28/2024 14:48	13503	MCMI_T2	1	1	0	0.5	0.4	-0.1	0.03	0.04	0	0	0	0	0	0
5/28/2024 14:49	46803	HEPB_T2	0	1	1	0	0.1	0.1	0.61	0.59	0	0	0	0	0	0
5/28/2024 14:49	46801	HEPB_T2	2	2	0	0.6	0.4	-0.2	0.85	0.93	0	0	0	0	0	0
5/28/2024 14:50	65001	NEFF_T2	0	0	0	0	0	0	0.1	0.12	1	1	0	1200	1200	0
5/28/2024 14:51	45901	AUBU_T1	0	0	0	0	0	0	2.2	2.15	0	0	0	0	0	0
5/28/2024 14:54	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 14:54	13905	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/28/2024 14:54	13901	SEID_T1	0	0	0	0	0	0	-0.62	-0.59	1	1	0	1200	1200	0
5/28/2024 14:54	66504	SMAN_T2	0	0	0	0	0	0	-0.9	-0.89	1	1	0	1200	1200	0
5/28/2024 14:55	45501	DERR_T2	1	3	2	1	0.65	-0.35	1.09	1.08	2	2	0	1800	1800	0
5/28/2024 14:56	11102	EGYP_T1	0	0	0	0	0	0	-0.01	0.13	0	0	0	0	0	0
5/28/2024 14:59	44502	HAMI_T2	1	1	0	2.4	2.6	0.2	-0.6	-0.63	0	0	0	0	0	0
5/28/2024 15:00	10801	CHHI_T1	4	3	-1	0.35	0.33	-0.02	-0.91	-0.91	2	2	0	1500	1500	0
5/28/2024 15:01	16203	POFA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 15:01	53902	HALI_T2	2	1	-1	2.65	5.2	2.55	0	0	0	0	0	0	0	0
5/28/2024 15:01	53901	HALI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/28/2024 15:01	53903	HALI_T2	6	6	0	0.77	0.68	-0.09	-0.02	-0.02	0	0	0	0	0	0
5/28/2024 15:02	16203	POFA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 15:03	16203	POFA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 15:03	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 15:04	64101	REFR_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
5/28/2024 15:06	43301	WATS_T2	0	0	0	0	0	0	-0.45	-0.46	1	1	0	900	900	0
5/28/2024 15:09	56801	BENV_T1	12	13	1	0.9	0.55	-0.35	-0.4	-0.33	1	1	0	600	600	0
5/28/2024 15:09	56803	BENV_T1	1	2	1	0.4	1	0.6	0	0	0	0	0	0	0	0
5/28/2024 15:10	56802	BENV_T2	1	3	2	0.7	0.57	-0.13	-1.03	-1	0	0	0	0	0	0
5/28/2024 15:10	56803	BENV_T1	1	2	1	0.4	1	0.6	0.02	0.03	1	1	0	600	600	0
5/28/2024 15:10	53201	SHEN_T2	0	1	1	0	0.1	0.1	0.29	0.29	1	1	0	600	600	0
5/28/2024 15:10	55105	WERT_T1	0	0	0	0	0	0	0.19	0.24	1	1	0	900	900	0
5/28/2024 15:10	56801	BENV_T1	12	13	1	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
5/28/2024 15:11	56802	BENV_T2	1	3	2	0.7	0.57	-0.13	-4.12	-4	0	0	0	0	0	0
5/28/2024 15:11	45902	AUBU_T1	0	0	0	0	0	0	-0.39	-0.43	1	1	0	600	600	0
5/28/2024 15:12	51604	DUKE_T2	0	0	0	0	0	0	-0.99	-1.02	1	1	0	900	900	0
5/28/2024 15:12	56802	BENV_T2	1	3	2	0.7	0.57	-0.13	-1.03	-1	0	0	0	0	0	0
5/28/2024 15:12	10801	CHHI_T1	4	3	-1	0.35	0.33	-0.02	-0.91	-0.89	2	2	0	1500	1500	0
5/28/2024 15:12	51702	OBER_T1	2	6	4	2.6	0.93	-1.67	-1.41	-1.5	1	1	0	600	600	0
5/28/2024 15:13	56802	BENV_T2	1	3	2	0.7	0.57	-0.13	-1.03	-1	0	0	0	0	0	0
5/28/2024 15:13	29402	BELT_T1	1	1	0	7.2	7.7	0.5	0	0	0	0	0	0	0	0
5/28/2024 15:13	29401	BELT_T1	0	2	2	0	0.45	0.45	0	0	1	1	0	900	900	0
5/28/2024 15:14	45501	DERR_T2	2	3	1	0.9	0.65	-0.25	1.08	1.02	2	2	0	1800	1800	0
5/28/2024 15:14	47901	HRDG_T1	0	0	0	0	0	0	1.56	1.46	1	1	0	1200	1200	0
5/28/2024 15:14	51702	OBER_T1	2	6	4	2.6	0.93	-1.67	-1.41	-1.5	1	1	0	600	600	0
5/28/2024 15:15	44505	HAMI_T2	0	0	0	0	0	0	-0.01	0.08	0	0	0	0	0	0
5/28/2024 15:15	29401	BELT_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
5/28/2024 15:15	44502	HAMI_T2	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
5/28/2024 15:15	25402	LAHA_T2	0	1	1	0	0.1	0.1	-1.32	-0.36	0	0	0	0	0	0
5/28/2024 15:15	29402	BELT_T1	1	1	0	7.1	8	0.9	0	0	0	0	0	0	0	0
5/28/2024 15:16	22903	HARW_T1	1	5	4	0	0.6	0.6	0	0	0	0	0	0	0	0
5/28/2024 15:16	41205	KENM_T2	0	0	0	0	0	0	-0.61	-0.64	1	1	0	600	600	0
5/28/2024 15:16	22905	HARW_T1	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
5/28/2024 15:16	22901	HARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/28/2024 15:30	57004	WHHI_T2	0	1	1	0	1.5	1.5	0.03	0.01	0	0	0	0	0	0
5/28/2024 15:31	45501	DERR_T2	2	1	-1	0.75	0.1	-0.65	1.02	1.01	2	2	0	1800	1800	0
5/28/2024 15:33	23403	HONE_T1	0	0	0	0	0	0	-0.35	-0.42	0	0	0	0	0	0
5/28/2024 15:34	45501	DERR_T2	2	1	-1	0.75	0.1	-0.65	1.02	1.01	2	2	0	1800	1800	0
5/28/2024 15:37	40101	HUNT_T2	0	1	1	0	0	0	-0.28	-0.34	0	0	0	0	0	0
5/28/2024 15:40	50701	SMEC_T1	1	2	1	0.2	0.3	0.1	-0.27	-0.25	0	0	0	0	0	0
5/28/2024 15:41	67605	WARW_T1	0	1	1	0	1	1	-0.61	-0.76	0	0	0	0	0	0
5/28/2024 15:41	53901	HALI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/28/2024 15:41	53903	HALI_T2	2	7	5	1.5	0.63	-0.87	-0.01	-0.03	0	0	0	0	0	0
5/28/2024 15:41	53902	HALI_T2	1	3	2	4.9	1.73	-3.17	0	0	0	0	0	0	0	0
5/28/2024 15:42	53902	HALI_T2	1	3	2	4.9	1.73	-3.17	0	0	0	0	0	0	0	0
5/28/2024 15:42	53903	HALI_T2	2	7	5	1.5	0.63	-0.87	-0.01	-0.03	0	0	0	0	0	0
5/28/2024 15:42	50701	SMEC_T1	1	2	1	0.2	0.3	0.1	-0.27	-0.25	0	0	0	0	0	0
5/28/2024 15:42	53901	HALI_T2	1	1	0	0.4	0.5	0.1	-1.15	-1.19	0	0	0	0	0	0
5/28/2024 15:42	67605	WARW_T1	0	1	1	0	1	1	-0.61	-0.76	0	0	0	0	0	0
5/28/2024 15:43	53901	HALI_T2	1	1	0	0.4	0.5	0.1	-1.15	-1.19	0	0	0	0	0	0
5/28/2024 15:43	53902	HALI_T2	1	3	2	4.9	1.73	-3.17	0.02	-0.04	0	0	0	0	0	0
5/28/2024 15:43	67605	WARW_T1	0	1	1	0	1	1	-0.61	-0.76	0	0	0	0	0	0
5/28/2024 15:43	53903	HALI_T2	2	7	5	1.5	0.63	-0.87	0	0	0	0	0	0	0	0
5/28/2024 15:44	67605	WARW_T1	0	1	1	0	1	1	-0.61	-0.76	0	0	0	0	0	0
5/28/2024 15:44	53901	HALI_T2	1	1	0	0.4	0.5	0.1	-2.29	-2.38	0	0	0	0	0	0
5/28/2024 15:44	53902	HALI_T2	1	3	2	4.9	1.73	-3.17	0	0	0	0	0	0	0	0
5/28/2024 15:44	53903	HALI_T2	2	7	5	1.5	0.63	-0.87	0	0	0	0	0	0	0	0
5/28/2024 15:45	53902	HALI_T2	3	1	-2	1.73	4.2	2.47	0	0	0	0	0	0	0	0
5/28/2024 15:45	53903	HALI_T2	5	6	1	0.76	0.58	-0.18	0	0	0	0	0	0	0	0
5/28/2024 15:45	53901	HALI_T2	1	1	0	0.5	0.2	-0.3	-1.15	-1.19	0	0	0	0	0	0
5/28/2024 15:49	45502	DERR_T2	0	0	0	0	0	0	-0.64	-0.47	1	0	-1	300	0	-300
5/28/2024 15:49	45501	DERR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/28/2024 15:49	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/28/2024 15:51	42902	MIDD_T2	6	0	-6	0.13	0	-0.13	0.05	-0.1	0	0	0	0	0	0
5/28/2024 15:51	42903	MIDD_T2	2	2	0	1.5	1.45	-0.05	0	0	0	0	0	0	0	0
5/28/2024 15:53	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/28/2024 15:53	65401	MARI_T1	5	17	12	0.18	0.24	0.06	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/28/2024 15:53	66301	MCGO_T2	0	0	0	0	0	0	-1.46	-1.49	0	0	0	0	0	0
5/28/2024 15:53	66504	SMAN_T2	0	0	0	0	0	0	-0.72	-0.91	1	1	0	1200	1200	0
5/28/2024 15:54	66301	MCGO_T2	0	0	0	0	0	0	-1.46	-1.49	0	0	0	0	0	0
5/28/2024 15:55	66302	MCGO_T2	0	0	0	0	0	0	-1.24	-1.28	1	1	0	600	600	0
5/28/2024 15:56	63305	GREE_T1	1	7	6	0.1	0.17	0.07	-1.87	-1.8	1	1	0	900	900	0
5/28/2024 15:56	66301	MCGO_T2	0	0	0	0	0	0	-1.46	-1.49	0	0	0	0	0	0
5/28/2024 15:56	49803	UNIV_T1	0	0	0	0	0	0	-1.74	-1.85	0	0	0	0	0	0
5/28/2024 15:59	63305	GREE_T1	1	7	6	0.1	0.17	0.07	-1.87	-1.8	1	1	0	900	900	0
5/28/2024 15:59	20603	GRWO_T2	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
5/28/2024 15:59	20601	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 15:59	67402	WAKE_T2	0	0	0	0	0	0	-0.01	0.01	1	1	0	600	600	0
5/28/2024 16:03	67204	TEHI_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
5/28/2024 16:08	60101	COCA_T1	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
5/28/2024 16:08	67204	TEHI_T2	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
5/28/2024 16:09	61506	EPET_T2	0	0	0	0	0	0	-1.41	-1.46	2	2	0	1800	1800	0
5/28/2024 16:09	53501	EVIL_T2	1	2	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/28/2024 16:09	61501	EPET_T2	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
5/28/2024 16:09	53502	EVIL_T2	0	0	0	0	0	0	-0.17	-0.17	2	2	0	1200	1200	0
5/28/2024 16:11	51603	DUKE_T1	0	0	0	0	0	0	0.04	0.11	0	0	0	0	0	0
5/28/2024 16:11	60101	COCA_T1	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
5/28/2024 16:12	64702	LITI_T2	0	0	0	0	0	0	0.06	-0.01	0	0	0	0	0	0
5/28/2024 16:12	10206	ALLE_T2	3	6	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/28/2024 16:12	23202	HIRU_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
5/28/2024 16:12	23203	HIRU_T2	1	1	0	0.2	0.1	-0.1	0.16	0.16	0	0	0	0	0	0
5/28/2024 16:12	10102	ALLE_T2	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
5/28/2024 16:13	23203	HIRU_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/28/2024 16:13	23202	HIRU_T2	2	1	-1	0.1	0.1	0	0.13	0.14	0	0	0	0	0	0
5/28/2024 16:26	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/28/2024 16:28	10206	ALLE_T2	6	0	-6	0.68	0	-0.68	0	0	0	0	0	0	0	0
5/28/2024 16:28	10102	ALLE_T2	1	2	1	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
5/28/2024 16:28	10204	ALLE_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 16:28	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 16:30	23202	HIRU_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/28/2024 16:30	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
5/28/2024 16:30	10805	CHHI_T2	1	1	0	8.9	9	0.1	-0.84	-0.76	1	1	0	600	600	0
5/28/2024 16:30	45801	HEGI_T1	0	0	0	0	0	0	0.11	0.13	1	1	0	900	900	0
5/28/2024 16:30	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 16:31	10805	CHHI_T2	1	1	0	8.9	9	0.1	-0.84	-0.76	1	1	0	600	600	0
5/28/2024 16:33	63401	HONY_T1	0	0	0	0	0	0	0.25	0.26	1	1	0	600	600	0
5/28/2024 16:34	63401	HONY_T1	0	0	0	0	0	0	0.25	0.26	1	1	0	600	600	0
5/28/2024 16:35	63401	HONY_T1	0	0	0	0	0	0	0.25	0.26	1	1	0	600	600	0
5/28/2024 16:38	60902	DONG_T2	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
5/28/2024 16:40	60902	DONG_T2	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
5/28/2024 16:41	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 16:42	43802	SWIL_T1	0	0	0	0	0	0	0.05	0.06	1	1	0	600	600	0
5/28/2024 16:42	43801	SWIL_T1	5	7	2	1.36	1.06	-0.3	0	0	0	0	0	0	0	0
5/28/2024 16:43	57401	SPAN_T1	0	0	0	0	0	0	-2.13	-1.89	2	2	0	1200	1200	0
5/28/2024 16:43	57403	SPAN_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/28/2024 16:52	65401	MARI_T1	4	0	-4	0.43	0	-0.43	0	0	0	0	0	0	0	0
5/28/2024 16:52	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/28/2024 16:55	53802	MBRG_T2	0	0	0	0	0	0	0.55	0.48	0	0	0	0	0	0
5/28/2024 16:55	53801	MBRG_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/28/2024 16:57	27603	PIRI_T2	2	0	-2	1.2	0	-1.2	0	0	0	0	0	0	0	0
5/28/2024 16:57	27605	PIRI_T2	0	0	0	0	0	0	0.83	0.83	0	0	0	0	0	0
5/28/2024 16:59	46101	MACI_T2	0	0	0	0	0	0	-0.61	-0.64	1	1	0	1200	1200	0
5/28/2024 17:04	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/28/2024 17:10	25402	LAHA_T2	0	0	0	0	0	0	-0.97	-0.97	0	0	0	0	0	0
5/28/2024 17:16	20601	GRWO_T2	0	0	0	0	0	0	0.11	0.07	0	0	0	0	0	0
5/28/2024 17:16	20603	GRWO_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/28/2024 17:18	42201	SHEN_T2	0	22	22	0	0	0	0.4	0.38	2	2	0	1200	1200	0
5/28/2024 17:23	46602	LACR_T1	0	1	1	0	0.7	0.7	-0.3	-0.27	0	0	0	0	0	0
5/28/2024 17:25	64702	LITI_T2	0	0	0	0	0	0	-0.03	0.06	0	0	0	0	0	0
5/28/2024 17:29	28703	HAML_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 17:29	28704	HAML_T2	1	1	0	0.4	0.3	-0.1	0.03	0.03	0	0	0	0	0	0
5/28/2024 17:33	48302	ORWI_T2	2	2	0	0.8	1.05	0.25	-0.32	-0.28	0	0	0	0	0	0
5/28/2024 17:33	67605	WARW_T1	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
5/28/2024 17:34	44703	MUNC_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/28/2024 17:34	44702	MUNC_T2	7	7	0	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
5/28/2024 17:34	44701	MUNC_T2	1	1	0	0.1	0.1	0	-1.44	-1.47	0	0	0	0	0	0
5/28/2024 17:43	56802	BENV_T2	1	1	0	0.5	0.1	-0.4	-1.05	-1.06	0	0	0	0	0	0
5/28/2024 17:47	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	0.05	0.13	1	1	0	900	900	0
5/28/2024 17:51	55405	SHER_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
5/28/2024 17:54	59202	THOM_T1	13	26	13	0.14	0.18	0.04	0	0	0	0	0	0	0	0
5/28/2024 17:54	59201	THOM_T1	8	8	0	0.11	0.14	0.03	0	0	0	0	0	0	0	0
5/28/2024 17:58	11102	EGYP_T1	1	1	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
5/28/2024 17:58	11104	EGYP_T1	5	5	0	1.22	0.76	-0.46	0	0	0	0	0	0	0	0
5/28/2024 17:58	11103	EGYP_T1	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
5/28/2024 18:00	51702	OBER_T1	2	2	0	2.8	3.05	0.25	0	0	0	0	0	0	0	0
5/28/2024 18:00	51704	OBER_T1	0	0	0	0	0	0	-1.23	-1.25	1	1	0	1200	1200	0
5/28/2024 18:02	52402	GRPA_T2	4	3	-1	0.25	0.43	0.18	0	0	0	0	0	0	0	0
5/28/2024 18:02	47001	HUGH_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
5/28/2024 18:02	52403	GRPA_T2	7	10	3	1.2	0.77	-0.43	0.37	0.38	0	0	0	0	0	0
5/28/2024 18:04	51704	OBER_T1	0	0	0	0	0	0	-1.23	-1.25	1	1	0	1200	1200	0
5/28/2024 18:04	51702	OBER_T1	2	2	0	2.8	3.05	0.25	0	0	0	0	0	0	0	0
5/28/2024 18:04	12601	MACA_T1	0	0	0	0	0	0	1.26	1.24	0	0	0	0	0	0
5/28/2024 18:04	12606	MACA_T1	8	9	1	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
5/28/2024 18:05	51704	OBER_T1	0	0	0	0	0	0	-1.23	-1.25	1	1	0	1200	1200	0
5/28/2024 18:05	51702	OBER_T1	2	2	0	2.8	3.05	0.25	0	0	0	0	0	0	0	0
5/28/2024 18:08	13501	MCMI_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
5/28/2024 18:09	20401	ASHF_T2	3	11	8	0.2	0.25	0.05	0	0	0	0	0	0	0	0
5/28/2024 18:09	20402	ASHF_T2	6	6	0	2.02	0.77	-1.25	0	0	0	0	0	0	0	0
5/28/2024 18:09	20403	ASHF_T2	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
5/28/2024 18:11	42503	ALTA_T2	0	0	0	0	0	0	-0.61	-0.59	0	0	0	0	0	0
5/28/2024 18:16	66503	SMAN_T2	0	0	0	0	0	0	0.89	0.84	0	0	0	0	0	0
5/28/2024 18:17	66503	SMAN_T2	0	0	0	0	0	0	0.89	0.84	0	0	0	0	0	0
5/28/2024 18:23	46502	LOHA_T1	0	0	0	0	0	0	0.12	0.11	1	1	0	1200	1200	0
5/28/2024 18:23	46504	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 18:25	24802	VALM_T1	0	0	0	0	0	0	3.36	3.35	0	0	0	0	0	0
5/28/2024 18:30	20402	ASHF_T2	6	36	30	0.77	0	-0.77	0	0	0	0	0	0	0	0
5/28/2024 18:30	20403	ASHF_T2	0	0	0	0	0	0	0.59	0.52	0	0	0	0	0	0
5/28/2024 18:30	20401	ASHF_T2	2	6	4	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/28/2024 18:32	58001	WCAR_T1	4	4	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
5/28/2024 18:32	58003	WCAR_T1	3	5	2	0.6	0.48	-0.12	1.86	1.78	0	0	0	0	0	0
5/28/2024 18:49	10109	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 18:49	10205	ALLE_T3	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/28/2024 18:49	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 18:49	10105	ALLE_T3	6	4	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
5/28/2024 18:50	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 18:50	10102	ALLE_T2	1	1	0	7.7	7.1	-0.6	0	0	0	0	0	0	0	0
5/28/2024 18:51	29402	BELT_T1	1	1	0	6.9	6.6	-0.3	0	0	0	0	0	0	0	0
5/28/2024 18:51	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	1	1	0	900	900	0
5/28/2024 19:00	43301	WATS_T2	2	1	-1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
5/28/2024 19:00	43302	WATS_T2	4	4	0	0.93	1.03	0.1	0	0	0	0	0	0	0	0
5/28/2024 19:00	43304	WATS_T2	0	0	0	0	0	0	-0.41	-0.34	0	0	0	0	0	0
5/28/2024 19:02	47401	PENS_T1	0	1	1	0	0	0	2.31	2.28	0	0	0	0	0	0
5/28/2024 19:03	43301	WATS_T2	2	1	-1	0.45	0.5	0.05	-0.53	-0.53	1	1	0	900	900	0
5/28/2024 19:03	43302	WATS_T2	4	4	0	0.93	1.03	0.1	0	0	0	0	0	0	0	0
5/28/2024 19:04	47401	PENS_T1	0	1	1	0	0	0	1.16	1.14	0	0	0	0	0	0
5/28/2024 19:09	12006	HATF_T1	0	0	0	0	0	0	0.69	0.59	1	1	0	1200	1200	0
5/28/2024 19:09	12002	HATF_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/28/2024 19:10	46506	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 19:10	46502	LOHA_T1	0	0	0	0	0	0	0.07	0.12	1	1	0	1200	1200	0
5/28/2024 19:12	48302	ORWI_T2	2	2	0	1.15	1.2	0.05	-0.46	0.1	0	0	0	0	0	0
5/28/2024 19:17	20402	ASHF_T2	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
5/28/2024 19:17	20401	ASHF_T2	6	7	1	0.55	0.57	0.02	0	0	0	0	0	0	0	0
5/28/2024 19:17	20403	ASHF_T2	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
5/28/2024 19:29	40602	PIGR_T1	1	3	2	0.1	0.13	0.03	-1.46	-1.48	1	1	0	600	600	0
5/28/2024 19:34	54202	PENN_T2	0	0	0	0	0	0	0.9	0.91	0	0	0	0	0	0
5/28/2024 19:37	50201	HARR_T3	2	2	0	5.05	5.2	0.15	0	0	0	0	0	0	0	0
5/28/2024 19:37	50103	HARR_T3	2	1	-1	0.3	0.1	-0.2	-0.34	-0.4	1	1	0	1200	1200	0
5/28/2024 19:37	50105	HARR_T3	6	6	0	5.67	5.6	-0.07	0	0	0	0	0	0	0	0
5/28/2024 19:38	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	-1.03	-1.03	1	1	0	600	600	0
5/28/2024 19:48	56801	BENV_T1	13	12	-1	1.39	1.14	-0.25	0	0	0	0	0	0	0	0
5/28/2024 19:48	46001	BERW_T1	0	0	0	0	0	0	0.74	0.76	0	0	0	0	0	0
5/28/2024 19:48	56803	BENV_T1	2	0	-2	3	0	-3	0	0.02	1	1	0	600	600	0
5/28/2024 19:50	46001	BERW_T1	0	0	0	0	0	0	0.74	0.76	0	0	0	0	0	0
5/28/2024 19:53	67503	WEWI_T2	0	0	0	0	0	0	0.27	0.19	0	0	0	0	0	0
5/28/2024 19:54	40901	JESH_T1	0	12	12	0	0.12	0.12	0	0	0	0	0	0	0	0
5/28/2024 19:54	40902	JESH_T1	0	4	4	0	0.1	0.1	-0.56	-0.48	0	0	0	0	0	0
5/28/2024 19:54	63304	GREE_T1	0	0	0	0	0	0	-2.7	-2.92	0	0	0	0	0	0
5/28/2024 19:54	63305	GREE_T1	13	0	-13	0.23	0	-0.23	0	0	0	0	0	0	0	0
5/28/2024 19:54	40903	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 19:58	59102	WALK_T2	38	75	37	0.25	0.38	0.13	0	0	0	0	0	0	0	0
5/28/2024 19:58	59101	WALK_T2	0	18	18	0	0.11	0.11	-0.53	-0.61	0	0	0	0	0	0
5/28/2024 20:04	60801	BUCK_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
5/28/2024 20:05	45501	DERB_T2	0	2	2	0	0	0	0.41	0.38	2	2	0	1800	1800	0
5/28/2024 20:10	52501	HOG_T1	0	0	0	0	0	0	0.65	0.65	1	1	0	300	300	0
5/28/2024 20:14	53903	HALI_T2	2	2	0	1.4	1.8	0.4	0	0	0	0	0	0	0	0
5/28/2024 20:14	53901	HALI_T2	1	1	0	0.4	0.9	0.5	-1.24	-1.29	0	0	0	0	0	0
5/28/2024 20:14	53902	HALI_T2	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
5/28/2024 20:17	47203	FAXO_T2	0	0	0	0	0	0	-1.43	-1.4	1	1	0	1200	1200	0
5/28/2024 20:28	44301	BEAV_T2	0	0	0	0	0	0	0.3	0.2	1	1	0	600	600	0
5/28/2024 20:33	46302	ROHR_T1	4	4	0	1.33	1.28	-0.05	0.19	0.18	0	0	0	0	0	0
5/28/2024 20:35	46302	ROHR_T1	4	4	0	1.33	1.28	-0.05	0.19	0.18	0	0	0	0	0	0
5/28/2024 20:37	67703	WERN_T2	0	0	0	0	0	0	-0.62	-0.68	1	1	0	900	900	0
5/28/2024 20:38	67703	WERN_T2	0	0	0	0	0	0	-0.68	-0.65	1	1	0	900	900	0
5/28/2024 20:43	67703	WERN_T2	0	0	0	0	0	0	-0.68	-0.65	1	1	0	900	900	0
5/28/2024 20:44	67703	WERN_T2	0	0	0	0	0	0	-0.68	-0.65	1	1	0	900	900	0
5/28/2024 20:50	52202	DEVO_T2	0	0	0	0	0	0	-1.16	-1.16	0	0	0	0	0	0
5/28/2024 20:51	52202	DEVO_T2	0	0	0	0	0	0	-1.16	-1.16	0	0	0	0	0	0
5/28/2024 21:03	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 21:03	67402	WAKE_T2	0	0	0	0	0	0	-0.12	-0.14	1	1	0	600	600	0
5/28/2024 21:03	43201	MVIL_T2	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/28/2024 21:04	58302	NOTT_T1	0	0	0	0	0	0	-0.26	-0.3	1	1	0	1200	1200	0
5/28/2024 21:21	66703	STRA_T1	0	0	0	0	0	0	-0.08	-0.15	0	0	0	0	0	0
5/28/2024 22:00	15103	UPHA_T2	0	0	0	0	0	0	0.57	0.54	0	0	0	0	0	0
5/28/2024 22:02	51002	NHAR_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
5/28/2024 22:02	51004	NHAR_T1	1	1	0	5.9	6.4	0.5	-0.3	-0.42	0	0	0	0	0	0
5/28/2024 22:04	53903	HALI_T2	2	2	0	1.8	1.3	-0.5	-0.13	-0.13	0	0	0	0	0	0
5/28/2024 22:04	53902	HALI_T2	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
5/28/2024 22:04	53901	HALI_T2	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
5/28/2024 22:09	54203	PENN_T1	18	18	0	0.94	0.74	-0.2	0	0	0	0	0	0	0	0
5/28/2024 22:09	54201	PENN_T1	15	11	-4	0.75	0.81	0.06	-0.88	-0.89	0	0	0	0	0	0
5/28/2024 22:10	58402	MORO_T1	0	0	0	0	0	0	-0.26	-0.34	2	2	0	1500	1500	0
5/28/2024 22:11	58402	MORO_T1	0	0	0	0	0	0	-0.26	-0.34	2	2	0	1500	1500	0
5/28/2024 22:12	28703	HAML_T2	2	3	1	0.45	1.17	0.72	0	0	0	0	0	0	0	0
5/28/2024 22:12	28702	HAML_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:12	28701	HAML_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 22:12	28704	HAML_T2	5	49	44	0.38	0.14	-0.24	-0.01	-0.01	0	0	0	0	0	0
5/28/2024 22:15	65206	PRIN_T4	0	1	1	0	9.4	9.4	0	0	0	0	0	0	0	0
5/28/2024 22:15	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/28/2024 22:15	65503	MOJO_T2	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
5/28/2024 22:17	58003	WCAR_T1	1	1	0	1.7	1.8	0.1	0.66	0.68	0	0	0	0	0	0
5/28/2024 22:17	58001	WCAR_T1	4	4	0	1.03	1.15	0.12	0	0	0	0	0	0	0	0
5/28/2024 22:17	65004	NEFF_T2	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
5/28/2024 22:18	58003	WCAR_T1	1	1	0	1.7	1.8	0.1	0.66	0.68	0	0	0	0	0	0
5/28/2024 22:18	50701	SMEC_T1	0	0	0	0	0	0	0.5	0.42	0	0	0	0	0	0
5/28/2024 22:18	21206	ECAR_T2	1	1	0	8.3	7.2	-1.1	-0.08	1.14	0	0	0	0	0	0
5/28/2024 22:18	58001	WCAR_T1	4	4	0	1.03	1.15	0.12	0	0	0	0	0	0	0	0
5/28/2024 22:18	21204	ECAR_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/28/2024 22:19	66301	MCGO_T2	0	0	0	0	0	0	-1.57	-1.58	0	0	0	0	0	0
5/28/2024 22:19	64702	LITI_T2	0	0	0	0	0	0	-0.39	-0.44	0	0	0	0	0	0
5/28/2024 22:19	17002	RIRO_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
5/28/2024 22:20	67502	WEWI_T2	134	5	-129	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
5/28/2024 22:20	67503	WEWI_T2	0	0	0	0	0	0	0.09	-0.03	0	0	0	0	0	0
5/28/2024 22:20	51604	DUKE_T2	0	0	0	0	0	0	-0.16	-1.22	0	1	1	0	900	900
5/28/2024 22:21	57403	SPAN_T1	4	10	6	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
5/28/2024 22:21	57401	SPAN_T1	0	0	0	0	0	0	-1.08	-1.04	1	1	0	600	600	0
5/28/2024 22:22	23202	HIRU_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
5/28/2024 22:22	10805	CHHI_T2	1	1	0	8	7.8	-0.2	-0.94	-0.88	1	1	0	600	600	0
5/28/2024 22:22	67502	WEWI_T2	134	5	-129	0.14	0.1	-0.04	-1.21	-0.22	1	0	-1	900	0	-900
5/28/2024 22:22	65502	MOJO_T2	0	0	0	0	0	0	-1.66	-1.74	1	1	0	900	900	0
5/28/2024 22:22	54203	PENN_T1	18	18	0	0.53	0.74	0.21	0	0	0	0	0	0	0	0
5/28/2024 22:22	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
5/28/2024 22:22	65001	NEFF_T2	0	0	0	0	0	0	-0.69	-0.75	1	1	0	1200	1200	0
5/28/2024 22:22	29402	BELT_T1	1	1	0	7.4	7.3	-0.1	0	0	0	0	0	0	0	0
5/28/2024 22:22	54201	PENN_T1	10	11	1	0.68	0.81	0.13	-0.88	-0.89	0	0	0	0	0	0
5/28/2024 22:23	65402	MARI_T1	38	40	2	0.14	0.12	-0.02	83.96	83.96	0	0	0	0	0	0
5/28/2024 22:23	54203	PENN_T1	18	18	0	0.53	0.74	0.21	0	0	0	0	0	0	0	0
5/28/2024 22:23	58003	WCAR_T1	1	1	0	1.7	1.8	0.1	0.68	0.67	0	0	0	0	0	0
5/28/2024 22:23	25402	LAHA_T2	2	1	-1	3.75	0.1	-3.65	-0.87	-0.89	0	0	0	0	0	0
5/28/2024 22:23	54201	PENN_T1	10	11	1	0.68	0.81	0.13	-0.89	-0.94	0	0	0	0	0	0
5/28/2024 22:23	25404	LAHA_T2	2	11	9	0.1	0.11	0.01	0	0	0	0	0	0	0	0
5/28/2024 22:23	66503	SMAN_T2	0	0	0	0	0	0	0.44	0.49	0	0	0	0	0	0
5/28/2024 22:23	64702	LITI_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
5/28/2024 22:23	58001	WCAR_T1	4	4	0	1.03	1.15	0.12	0	0	0	0	0	0	0	0
5/28/2024 22:24	60101	COCA_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
5/28/2024 22:24	65503	MOJO_T2	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
5/28/2024 22:24	58003	WCAR_T1	1	1	0	1.7	1.8	0.1	0.68	0.67	0	0	0	0	0	0
5/28/2024 22:24	58001	WCAR_T1	4	4	0	1.03	1.15	0.12	0	0	0	0	0	0	0	0
5/28/2024 22:25	63404	HONY_T1	0	19	19	0	0.16	0.16	0	0	0	0	0	0	0	0
5/28/2024 22:25	50105	HARR_T3	6	6	0	5.62	5.62	0	0	0	0	0	0	0	0	0
5/28/2024 22:25	20401	ASHF_T2	2	2	0	0.15	0.45	0.3	-0.32	-0.31	0	0	0	0	0	0
5/28/2024 22:25	17802	GILB_T1	0	0	0	0	0	0	0	0.09	0	0	0	0	0	0
5/28/2024 22:25	15702	TANN_T2	0	39	39	0	0.15	0.15	-0.42	-0.44	0	0	0	0	0	0
5/28/2024 22:25	13501	MCMI_T1	0	0	0	0	0	0	0.33	0.14	0	0	0	0	0	0
5/28/2024 22:25	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/28/2024 22:25	13503	MCMI_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
5/28/2024 22:25	47002	HUGH_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/28/2024 22:25	25404	LAHA_T2	2	11	9	0.1	0.11	0.01	0	0	0	0	0	0	0	0
5/28/2024 22:25	50201	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/28/2024 22:25	50103	HARR_T3	0	2	2	0	0.2	0.2	-0.55	-0.55	1	1	0	1200	1200	0
5/28/2024 22:25	67204	TEHI_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
5/28/2024 22:25	15703	TANN_T2	1	1	0	5	4.7	-0.3	0	0	0	0	0	0	0	0
5/28/2024 22:25	47001	HUGH_T2	1	13	12	0.1	0.16	0.06	-0.83	-0.93	0	0	0	0	0	0
5/28/2024 22:25	23203	HIRU_T2	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
5/28/2024 22:25	64902	MILL_T2	0	0	0	0	0	0	-0.47	-0.45	1	1	0	900	900	0
5/28/2024 22:25	45902	AUBU_T1	0	0	0	0	0	0	-0.95	-0.86	1	1	0	600	600	0
5/28/2024 22:25	63401	HONY_T1	0	0	0	0	0	0	-0.03	0	1	1	0	600	600	0
5/28/2024 22:25	25402	LAHA_T2	2	1	-1	3.75	0.1	-3.65	-0.87	-0.89	0	0	0	0	0	0
5/28/2024 22:26	63501	HEID_TBK1-2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
5/28/2024 22:26	67502	WEWI_T2	134	5	-129	0.14	0.1	-0.04	-0.22	-0.36	0	0	0	0	0	0
5/28/2024 22:26	13905	SEID_T1	0	0	0	0	0	0	-0.91	-0.94	1	1	0	1200	1200	0
5/28/2024 22:26	66504	SMAN_T2	0	0	0	0	0	0	-0.84	-0.86	0	0	0	0	0	0
5/28/2024 22:26	65402	MARI_T1	38	40	2	0.14	0.12	-0.02	83.96	83.96	0	0	0	0	0	0
5/28/2024 22:26	10801	CHHI_T1	0	0	0	0	0	0	-1.25	-1.4	2	2	0	1500	1500	0
5/28/2024 22:26	12701	MACU_T1	0	0	0	0	0	0	-1.14	0.09	0	0	0	0	0	0
5/28/2024 22:26	64702	LITI_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
5/28/2024 22:26	11103	EGYP_T1	0	0	0	0	0	0	0.41	0.34	0	0	0	0	0	0
5/28/2024 22:26	45902	AUBU_T1	0	0	0	0	0	0	-1.9	-1.72	2	2	0	1200	1200	0
5/28/2024 22:27	64201	KINZ_T1	7	1	-6	0.53	0.6	0.07	0.45	0.38	1	1	0	300	300	0
5/28/2024 22:27	11507	FREE_T2	1	0	-1	0.1	0	-0.1	1.61	1.44	0	0	0	0	0	0
5/28/2024 22:27	45902	AUBU_T1	0	0	0	0	0	0	-0.95	-0.86	1	1	0	600	600	0
5/28/2024 22:27	64202	KINZ_T1	6	2	-4	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
5/28/2024 22:27	64204	KINZ_T1	27	1	-26	0.3	0.9	0.6	0	0	0	0	0	0	0	0
5/28/2024 22:27	15702	TANN_T2	0	39	39	0	0.15	0.15	-0.42	-0.44	0	0	0	0	0	0
5/28/2024 22:27	45901	AUBU_T1	0	0	0	0	0	0	1.87	2.43	0	0	0	0	0	0
5/28/2024 22:27	20601	GRWO_T2	5	5	0	0.12	0.14	0.02	0	0	0	0	0	0	0	0
5/28/2024 22:27	15703	TANN_T2	1	1	0	5	4.7	-0.3	0	0	0	0	0	0	0	0
5/28/2024 22:27	66901	SHIL_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
5/28/2024 22:27	40601	PIGR_T1	0	30	30	0	0.13	0.13	0	0	0	0	0	0	0	0
5/28/2024 22:27	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.93	1	1	0	900	900	0
5/28/2024 22:27	13302	ORVI_T2	0	0	0	0	0	0	0.1	0.04	0	0	0	0	0	0
5/28/2024 22:27	66504	SMAN_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
5/28/2024 22:27	40602	PIGR_T1	0	2	2	0	0.1	0.1	-1.08	-1.11	1	1	0	600	600	0
5/28/2024 22:27	67502	WEWI_T2	134	5	-129	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
5/28/2024 22:27	67605	WARW_T1	0	3	3	0	0.2	0.2	-1.15	-1.17	0	0	0	0	0	0
5/28/2024 22:27	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/28/2024 22:27	20603	GRWO_T2	3	2	-1	0.1	0.1	0	0.36	0.36	0	0	0	0	0	0
5/28/2024 22:27	67503	WEWI_T2	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
5/28/2024 22:27	54202	PENN_T2	0	0	0	0	0	0	0.63	0.65	0	0	0	0	0	0
5/28/2024 22:27	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/28/2024 22:27	29402	BELT_T1	1	1	0	7.4	7.3	-0.1	0	0	0	0	0	0	0	0
5/28/2024 22:27	67603	WARW_T1	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
5/28/2024 22:28	44702	MUNC_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/28/2024 22:28	57104	SPHI_T2	2	2	0	2.95	2.15	-0.8	-0.89	-0.91	0	0	0	0	0	0
5/28/2024 22:28	47001	HUGH_T2	1	13	12	0.1	0.16	0.06	-0.83	-0.93	0	0	0	0	0	0
5/28/2024 22:28	57101	SPHI_T2	6	6	0	0.77	0.57	-0.2	0	0	0	0	0	0	0	0
5/28/2024 22:28	44703	MUNC_T2	2	2	0	0.5	0.95	0.45	0	0	0	0	0	0	0	0
5/28/2024 22:28	57106	SPHI_T2	3	3	0	1.33	1.17	-0.16	0	0	0	0	0	0	0	0
5/28/2024 22:28	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:28	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.14	1	1	0	600	600	0
5/28/2024 22:28	63305	GREE_T1	2	2	0	0.1	0	-0.1	-1.13	-1.24	0	0	0	0	0	0
5/28/2024 22:28	67401	WAKE_T2	2	6	4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
5/28/2024 22:28	46002	BERW_T2	0	0	0	0	0	0	-1.02	-1.05	1	1	0	900	900	0
5/28/2024 22:28	15603	NSTR_T2	0	2	2	0	0.1	0.1	-0.56	-0.57	0	0	0	0	0	0
5/28/2024 22:28	40302	TAMA_T3	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
5/28/2024 22:28	15601	NSTR_T2	3	3	0	0.57	1.07	0.5	0	0	0	0	0	0	0	0
5/28/2024 22:28	67402	WAKE_T2	0	0	0	0	0	0	0.34	0.25	0	0	0	0	0	0
5/28/2024 22:28	29402	BELT_T1	1	1	0	7.4	7.3	-0.1	0	0	0	0	0	0	0	0
5/28/2024 22:28	46602	LACR_T1	0	0	0	0	0	0	-0.41	-0.46	0	0	0	0	0	0
5/28/2024 22:28	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:28	46802	HEPB_T1	1	1	0	0.9	0.8	-0.1	-0.24	-0.28	0	0	0	0	0	0
5/28/2024 22:28	10805	CHHI_T2	1	1	0	8	7.8	-0.2	-0.88	-0.96	1	1	0	600	600	0
5/28/2024 22:28	44701	MUNC_T2	1	17	16	0.1	0.11	0.01	-1.55	-1.57	0	0	0	0	0	0
5/28/2024 22:28	47002	HUGH_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/28/2024 22:29	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:29	67502	WEWI_T2	134	5	-129	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
5/28/2024 22:29	10801	CHHI_T1	0	0	0	0	0	0	-1.25	-1.4	2	2	0	1500	1500	0
5/28/2024 22:29	60902	DONG_T2	0	0	0	0	0	0	-0.32	-0.38	0	0	0	0	0	0
5/28/2024 22:29	45602	WOOL_T1	4	1	-3	0.15	0.1	-0.05	0.62	0.55	0	0	0	0	0	0
5/28/2024 22:29	67401	WAKE_T2	2	6	4	0.1	0.12	0.02	-0.91	-0.94	0	0	0	0	0	0
5/28/2024 22:29	67605	WARW_T1	0	3	3	0	0.2	0.2	-1.15	-1.17	0	0	0	0	0	0
5/28/2024 22:29	16402	MOPO_T1	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
5/28/2024 22:29	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:29	63401	HONY_T1	0	0	0	0	0	0	-0.03	0	1	1	0	600	600	0
5/28/2024 22:29	10105	ALLE_T3	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:29	66302	MCGO_T2	0	0	0	0	0	0	-1.51	-1.42	1	1	0	600	600	0
5/28/2024 22:29	63404	HONY_T1	0	19	19	0	0.16	0.16	0	0	0	0	0	0	0	0
5/28/2024 22:29	23901	ERMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:29	24105	EHAZ_T1	4	4	0	5.63	5.5	-0.13	0	0	0	0	0	0	0	0
5/28/2024 22:29	29402	BELT_T1	1	1	0	7.4	7.3	-0.1	0	0	0	0	0	0	0	0
5/28/2024 22:29	14404	SSLA_T1	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
5/28/2024 22:29	13503	MCMI_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
5/28/2024 22:29	43301	WATS_T2	0	1	1	0	0.5	0.5	0.28	-0.69	0	1	1	0	900	900
5/28/2024 22:29	14403	SSLA_T1	0	0	0	0	0	0	0.75	0.7	0	0	0	0	0	0
5/28/2024 22:29	24102	EHAZ_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/28/2024 22:29	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:29	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/28/2024 22:29	52204	DEVO_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/28/2024 22:29	52202	DEVO_T2	0	0	0	0	0	0	-0.69	-0.66	0	0	0	0	0	0
5/28/2024 22:29	43302	WATS_T2	1	4	3	0.1	0.38	0.28	0	0	0	0	0	0	0	0
5/28/2024 22:29	67503	WEWI_T2	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
5/28/2024 22:29	43304	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/28/2024 22:29	23403	HONE_T1	0	0	0	0	0	0	-0.69	-0.78	0	0	0	0	0	0
5/28/2024 22:29	67603	WARW_T1	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/28/2024 22:29	24103	EHAZ_T1	0	0	0	0	0	0	-0.6	-0.57	0	0	0	0	0	0
5/28/2024 22:30	15703	TANN_T2	1	4	3	4.7	1.23	-3.47	0	0	0	0	0	0	0	0
5/28/2024 22:30	26603	BROO_T1	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
5/28/2024 22:30	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/28/2024 22:30	15702	TANN_T2	21	59	38	0.15	0.17	0.02	-0.42	-0.44	0	0	0	0	0	0
5/28/2024 22:30	46802	HEPB_T1	1	0	-1	0.8	0	-0.8	-0.24	-0.28	1	0	0	0	0	0
5/28/2024 22:30	53901	HALI_T2	1	1	0	0.3	0.5	0.2	-1.41	-1.38	0	0	0	0	0	0
5/28/2024 22:30	57403	SPAN_T1	8	35	27	0.13	0.31	0.18	0	0	0	0	0	0	0	0
5/28/2024 22:30	59302	MCAL_T1	1	1	0	0.6	0.8	0.2	-0.33	-0.31	1	1	0	600	600	0
5/28/2024 22:30	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:30	59301	MCAL_T1	4	28	24	0.65	0.23	-0.42	0	0	0	0	0	0	0	0
5/28/2024 22:30	57401	SPAN_T1	0	1	1	0	0.1	0.1	-1.04	-1.16	1	1	0	600	600	0
5/28/2024 22:30	60102	COCA_T1	0	0	0	0	0	0	0.36	0.27	3	3	0	2100	2100	0
5/28/2024 22:30	58001	WCAR_T1	4	4	0	1.15	0.95	-0.2	0	0	0	0	0	0	0	0
5/28/2024 22:30	66502	SMAN_T2	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
5/28/2024 22:30	56801	BENV_T1	12	12	0	1.25	1.57	0.32	-0.43	-0.46	1	1	0	600	600	0
5/28/2024 22:30	58003	WCAR_T1	1	1	0	1.8	1.5	-0.3	0.68	0.67	0	0	0	0	0	0
5/28/2024 22:30	63305	GREE_T1	2	0	-2	0	0	0	-1.13	-1.24	0	0	0	0	0	0
5/28/2024 22:30	53903	HALI_T2	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:30	14802	TREI_T2	0	0	0	0	0	0	0.42	0.36	0	0	0	0	0	0
5/28/2024 22:31	47901	HRDG_T1	0	0	0	0	0	0	1.19	1.22	1	1	0	1200	1200	0
5/28/2024 22:31	65205	PRIN_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
5/28/2024 22:31	43105	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/28/2024 22:31	46302	ROHR_T1	4	4	0	1.93	2.08	0.15	0	0	0	0	0	0	0	0
5/28/2024 22:31	67204	TEHI_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
5/28/2024 22:31	63305	GREE_T1	2	0	-2	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:31	58003	WCAR_T1	1	1	0	1.8	1.5	-0.3	0.68	0.67	0	0	0	0	0	0
5/28/2024 22:31	12701	MACU_T1	0	0	0	0	0	0	-1.14	0.09	0	0	0	0	0	0
5/28/2024 22:31	10102	ALLE_T2	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
5/28/2024 22:31	54505	ENOL_T2	1	1	0	0.3	0.2	-0.1	-1.19	-1.18	1	1	0	600	600	0
5/28/2024 22:31	65202	PRIN_T1	5	1	-4	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
5/28/2024 22:31	12601	MACA_T1	0	0	0	0	0	0	0.86	0.82	0	0	0	0	0	0
5/28/2024 22:31	60101	COCA_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
5/28/2024 22:31	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:31	65503	MOJO_T2	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
5/28/2024 22:31	45902	AUBU_T1	0	0	0	0	0	0	-0.95	-0.86	1	1	0	600	600	0
5/28/2024 22:31	45602	WOOL_T1	1	0	-1	0.1	0	-0.1	0.62	0.55	0	0	0	0	0	0
5/28/2024 22:31	67502	WEWI_T2	5	0	-5	0.1	0	-0.1	-0.22	-0.36	0	0	0	0	0	0
5/28/2024 22:31	50701	SMEC_T1	0	0	0	0	0	0	0.84	0.77	0	0	0	0	0	0
5/28/2024 22:31	43103	SMIL_T2	17	16	-1	0.54	0.63	0.09	-0.88	-0.87	0	0	0	0	0	0
5/28/2024 22:31	45901	AUBU_T1	0	0	0	0	0	0	1.87	2.43	0	0	0	0	0	0
5/28/2024 22:31	58001	WCAR_T1	4	4	0	1.15	0.95	-0.2	0	0	0	0	0	0	0	0
5/28/2024 22:31	63304	GREE_T1	0	0	0	0	0	0	-0.31	-0.38	0	0	0	0	0	0
5/28/2024 22:31	46301	ROHR_T1	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
5/28/2024 22:31	16402	MOPO_T1	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
5/28/2024 22:31	60902	DONG_T2	0	0	0	0	0	0	-0.32	-0.38	0	0	0	0	0	0
5/28/2024 22:31	43102	SMIL_T2	7	6	-1	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
5/28/2024 22:31	65402	MARI_T1	38	23	-15	0.12	0.11	-0.01	83.96	83.96	0	0	0	0	0	0
5/28/2024 22:32	47401	PENS_T1	0	0	0	0	0	0	0.98	0.93	0	0	0	0	0	0
5/28/2024 22:32	47403	PENS_T1	1	9	8	0.1	0.11	0.01	0	0	0	0	0	0	0	0
5/28/2024 22:32	63404	HONY_T1	0	19	19	0	0.16	0.16	0	0	0	0	0	0	0	0
5/28/2024 22:32	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:32	67703	WERN_T2	0	0	0	0	0	0	-0.81	-0.77	1	1	0	900	900	0
5/28/2024 22:32	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/28/2024 22:32	54203	PENN_T1	18	18	0	0.74	0.59	-0.15	0.82	0.8	0	0	0	0	0	0
5/28/2024 22:32	46502	LOHA_T1	0	0	0	0	0	0	-0.02	-0.04	1	1	0	1200	1200	0
5/28/2024 22:32	53901	HALI_T2	1	1	0	0.3	0.5	0.2	-1.41	-1.38	0	0	0	0	0	0
5/28/2024 22:32	46506	LOHA_T1	1	1	0	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
5/28/2024 22:32	63401	HONY_T1	0	0	0	0	0	0	-0.06	0	2	2	0	1200	1200	0
5/28/2024 22:32	14604	SWHI_T1	0	0	0	0	0	0	0.5	0.52	1	1	0	900	900	0
5/28/2024 22:32	46504	LOHA_T1	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
5/28/2024 22:32	54201	PENN_T1	11	10	-1	0.81	0.68	-0.13	0	0	0	0	0	0	0	0
5/28/2024 22:32	59101	WALK_T2	37	70	33	0.26	0.75	0.49	-0.73	-0.71	0	0	0	0	0	0
5/28/2024 22:32	23203	HIRU_T2	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
5/28/2024 22:32	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:32	67605	WARW_T1	0	14	14	0	0.35	0.35	-1.15	-1.17	0	0	0	0	0	0
5/28/2024 22:32	59202	THOM_T1	88	171	83	0.16	0.19	0.03	0	0	0	0	0	0	0	0
5/28/2024 22:32	65402	MARI_T1	38	23	-15	0.12	0.11	-0.01	167.92	167.92	0	0	0	0	0	0
5/28/2024 22:32	44502	HAMI_T2	1	1	0	3.6	3.7	0.1	-0.89	-0.91	0	0	0	0	0	0
5/28/2024 22:32	52202	DEVO_T2	0	0	0	0	0	0	-0.69	-0.66	0	0	0	0	0	0
5/28/2024 22:32	51702	OBER_T1	2	2	0	1.45	1.8	0.35	-0.66	-0.68	1	1	0	600	600	0
5/28/2024 22:32	10805	OHIH_T2	1	1	0	8	7.8	-0.2	-0.88	-0.96	1	1	0	600	600	0
5/28/2024 22:32	29402	BELT_T1	1	1	0	7.2	7.4	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:32	56802	BENV_T2	5	56	51	0.28	0.17	-0.11	-5.04	-5.28	0	0	0	0	0	0
5/28/2024 22:32	52501	PROG_T1	0	0	0	0	0	0	0.58	0.54	1	1	0	300	300	0
5/28/2024 22:32	48302	ORWI_T2	2	2	0	1	1.4	0.4	-0.06	-0.05	0	0	0	0	0	0
5/28/2024 22:32	44301	BEAV_T2	0	0	0	0	0	0	0.74	0.7	1	1	0	600	600	0
5/28/2024 22:32	59102	WALK_T2	8	26	18	0.11	0.15	0.04	0	0	0	0	0	0	0	0
5/28/2024 22:32	53903	HALI_T2	2	2	0	1	1.2	0.2	-0.15	-0.15	0	0	0	0	0	0
5/28/2024 22:32	12701	MACU_T1	0	0	0	0	0	0	-1.14	0.09	0	0	0	0	0	0
5/28/2024 22:32	44505	HAMI_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
5/28/2024 22:32	55002	NEWP_T1	2	5	3	0.35	0.3	-0.05	-0.25	-0.26	0	0	0	0	0	0
5/28/2024 22:32	52204	DEVO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/28/2024 22:32	45902	AUBU_T1	0	0	0	0	0	0	-1.9	-1.72	2	2	0	1200	1200	0
5/28/2024 22:32	59201	THOM_T1	16	19	3	0.24	0.28	0.04	0	0	0	0	0	0	0	0
5/28/2024 22:33	53903	HALI_T2	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:33	52401	GRPA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/28/2024 22:33	55405	SHER_T1	6	11	5	0.38	0.24	-0.14	-0.72	-0.81	0	0	0	0	0	0
5/28/2024 22:33	53901	HALI_T2	1	1	0	0.3	0.5	0.2	-4.23	-4.13	0	0	0	0	0	0
5/28/2024 22:33	52202	DEVO_T2	0	0	0	0	0	0	-0.69	-0.66	0	0	0	0	0	0
5/28/2024 22:33	49804	UNIV_T1	1	0	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
5/28/2024 22:33	52403	GRPA_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
5/28/2024 22:33	14605	SWHI_T1	0	0	0	0	0	0	1.24	1.17	1	1	0	1200	1200	0
5/28/2024 22:33	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:33	67703	WERN_T2	0	0	0	0	0	0	-0.81	-0.77	1	1	0	900	900	0
5/28/2024 22:33	59201	THOM_T1	16	19	3	0.24	0.28	0.04	0	0	0	0	0	0	0	0
5/28/2024 22:33	52204	DEVO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/28/2024 22:33	55101	WERT_T1	0	0	0	0	0	0	-1.29	-1.2	2	2	0	1500	1500	0
5/28/2024 22:33	55002	NEWP_T1	2	5	3	0.35	0.3	-0.05	-0.5	-0.52	0	0	0	0	0	0
5/28/2024 22:33	13704	SOHN_T2	0	6	6	0	0.27	0.27	-0.31	-0.35	0	0	0	0	0	0
5/28/2024 22:33	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:33	10801	OHIH_T1	0	0	0	0	0	0	-1.25	-1.4	2	2	0	1500	1500	0
5/28/2024 22:33	46001	BERW_T1	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
5/28/2024 22:33	47401	PENS_T1	0	0	0	0	0	0	0.98	0.93	0	0	0	0	0	0
5/28/2024 22:33	61803	EELI_T2	0	0	0	0	0	0	0.1	0.05	1	1	0	600	600	0
5/28/2024 22:33	43301	WATS_T2	0	1	1	0	0.9	0.9	0.28	-0.69	0	1	1	0	900	900
5/28/2024 22:33	49803	UNIV_T1	0	0	0	0	0	0	-1.18	-1.2	0	0	0	0	0	0
5/28/2024 22:33	66502	SMAN_T2	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
5/28/2024 22:33	47403	PENS_T1	1	9	8	0.1	0.11	0.01	0	0	0	0	0	0	0	0
5/28/2024 22:33	59202	THOM_T1	88	171	83	0.16	0.19	0.03	0	0	0	0	0	0	0	0
5/28/2024 22:33	43302	WATS_T2	4	4	0	0.33	0.5	0.17	0	0	0	0	0	0	0	0
5/28/2024 22:33	51702	OBER_T1	2	2	0	1.45	1.8	0.35	0	0	0	0	0	0	0	0
5/28/2024 22:33	52402	GRPA_T2	3	4	1	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
5/28/2024 22:33	52404	GRPA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/28/2024 22:33	67203	TEHI_T1	0	0	0	0	0	0	2.08	2.16	2	2	0	1500	1500	0
5/28/2024 22:33	51704	OBER_T1	0	0	0	0	0	0	-0.32	-0.35	0	0	0	0	0	0
5/28/2024 22:33	25503	MADI_T1	157	148	-9	0.67	0.57	-0.1	-0.98	-0.97	0	0	0	0	0	0
5/28/2024 22:33	42503	ALTA_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
5/28/2024 22:34	64801	MONE_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/28/2024 22:34	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/28/2024 22:34	12001	HATF_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/28/2024 22:34	13503	MCMI_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
5/28/2024 22:34	12006	HATF_T1	0	0	0	0	0	0	-0.17	-0.2	1	1	0	1200	1200	0
5/28/2024 22:34	13704	SOHN_T2	0	6	6	0	0.27	0.27	-0.31	-0.35	0	0	0	0	0	0
5/28/2024 22:34	14603	SWHI_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
5/28/2024 22:34	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/28/2024 22:34	41802	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:34	45502	DERR_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
5/28/2024 22:34	29402	BELT_T1	1	1	0	7.2	7.4	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:34	56802	BENV_T2	5	56	51	0.28	0.17	-0.11	-1.26	-1.32	0	0	0	0	0	0
5/28/2024 22:34	14801	TREI_T2	0	0	0	0	0	0	0.53	0.47	0	0	0	0	0	0
5/28/2024 22:34	12002	HATF_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
5/28/2024 22:34	45501	DERR_T2	0	0	0	0	0	0	-0.39	-0.37	2	2	0	1800	1800	0
5/28/2024 22:34	64802	MONE_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
5/28/2024 22:35	53903	HALI_T2	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:35	45502	DERR_T2	0	0	0	0	0	0	-0.39	-0.37	2	2	0	1800	1800	0
5/28/2024 22:35	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.93	1	1	0	900	900	0
5/28/2024 22:35	51604	DUKE_T2	0	0	0	0	0	0	-1.22	-1.24	1	1	0	900	900	0
5/28/2024 22:35	45602	WOOL_T1	1	0	-1	0.1	0	-0.1	0.62	0.55	0	0	0	0	0	0
5/28/2024 22:35	50701	SMEC_T1	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
5/28/2024 22:35	51702	OBER_T1	2	2	0	1.45	1.8	0.35	-0.66	-0.68	1	1	0	600	600	0
5/28/2024 22:35	61801	EELI_T2	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
5/28/2024 22:35	67703	WERN_T2	0	0	0	0	0	0	-0.81	-0.77	1	1	0	900	900	0
5/28/2024 22:35	45502	DERR_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
5/28/2024 22:35	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:35	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:35	53901	HALI_T2	1	1	0	0.3	0.5	0.2	-1.41	-1.38	0	0	0	0	0	0
5/28/2024 22:35	44301	BEAV_T2	0	0	0	0	0	0	0.74	0.7	1	1	0	600	600	0
5/28/2024 22:35	67201	TEHI_T1	0	0	0	0	0	0	0.71	-0.24	0	1	1	0	900	900
5/28/2024 22:36	46801	HEPB_T2	3	0	-3	0.7	0	-0.7	0	0	0	0	0	0	0	0
5/28/2024 22:36	64101	REFR_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
5/28/2024 22:36	46803	HEPB_T2	0	0	0	0	0	0	0.53	0.47	0	0	0	0	0	0
5/28/2024 22:36	46001	BERW_T1	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
5/28/2024 22:36	26603	BROO_T1	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
5/28/2024 22:36	65502	MOJO_T2	0	0	0	0	0	0	-1.74	-1.74	1	1	0	900	900	0
5/28/2024 22:36	43302	WATS_T2	4	4	0	0.33	0.5	0.17	0	0	0	0	0	0	0	0
5/28/2024 22:36	42802	SELI_T1	0	0	0	0	0	0	-1.28	-1.26	0	0	0	0	0	0
5/28/2024 22:36	65402	MARI_T1	38	23	-15	0.12	0.11	-0.01	83.96	83.96	0	0	0	0	0	0
5/28/2024 22:36	53903	HALI_T2	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:36	57401	SPAN_T1	0	1	1	0	0.1	0.1	-1.04	-1.16	1	1	0	600	600	0
5/28/2024 22:36	56803	BENV_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
5/28/2024 22:36	60101	COCA_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
5/28/2024 22:36	14404	SSLA_T1	1	1	0	5.3	5.7	0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/28/2024 22:36	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.14	1	1	0	600	600	0
5/28/2024 22:36	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:36	24201	PROV_T3	1	1	0	6.3	6.2	-0.1	-1.43	-1.42	1	1	0	1200	1200	0
5/28/2024 22:36	44502	HAMI_T2	1	1	0	3.6	3.7	0.1	0	0	0	0	0	0	0	0
5/28/2024 22:36	24204	PROV_T3	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
5/28/2024 22:36	56801	BENV_T1	12	12	0	1.25	1.57	0.32	0	0	0	0	0	0	0	0
5/28/2024 22:36	20603	GRWO_T2	0	11	11	0	0.27	0.27	0.36	0.36	0	0	0	0	0	0
5/28/2024 22:36	14403	SSLA_T1	0	0	0	0	0	0	0.75	0.7	0	0	0	0	0	0
5/28/2024 22:36	44505	HAMI_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
5/28/2024 22:36	20601	GRWO_T2	0	54	54	0	0.18	0.18	-0.27	-0.33	0	0	0	0	0	0
5/28/2024 22:36	53901	HALI_T2	1	1	0	0.3	0.5	0.2	-1.41	-1.38	0	0	0	0	0	0
5/28/2024 22:36	57403	SPAN_T1	8	35	27	0.13	0.31	0.18	0	0	0	0	0	0	0	0
5/28/2024 22:36	43304	WATS_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
5/28/2024 22:36	43301	WATS_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
5/28/2024 22:36	56802	BENV_T2	5	56	51	0.28	0.17	-0.11	-1.26	-1.32	0	0	0	0	0	0
5/28/2024 22:37	40903	JESH_T1	58	0	-58	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/28/2024 22:37	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.93	1	1	0	900	900	0
5/28/2024 22:37	58402	MORO_T1	0	0	0	0	0	0	-0.34	-0.35	2	2	0	1500	1500	0
5/28/2024 22:37	46101	MACI_T2	0	0	0	0	0	0	0.6	0.62	0	0	0	0	0	0
5/28/2024 22:37	52401	GRPA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/28/2024 22:37	40901	JESH_T1	105	0	-105	0.23	0	-0.23	0	0	0	0	0	0	0	0
5/28/2024 22:37	45902	AUBU_T1	0	0	0	0	0	0	-0.95	-0.86	1	1	0	600	600	0
5/28/2024 22:37	10805	CHHI_T2	1	1	0	8	7.8	-0.2	-0.88	-0.96	1	1	0	600	600	0
5/28/2024 22:37	17804	GILB_T2	0	0	0	0	0	0	0	-0.55	0	0	0	0	0	0
5/28/2024 22:37	52403	GRPA_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
5/28/2024 22:37	45502	DERR_T2	1	1	0	0.6	0.4	-0.2	-0.6	-0.61	0	0	0	0	0	0
5/28/2024 22:37	20401	ASHF_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:37	66301	MCGO_T2	0	0	0	0	0	0	-1.58	-1.6	0	0	0	0	0	0
5/28/2024 22:37	43302	WATS_T2	4	4	0	0.33	0.5	0.17	0	0	0	0	0	0	0	0
5/28/2024 22:37	40902	JESH_T1	206	0	-206	0.2	0	-0.2	-0.71	-0.79	0	0	0	0	0	0
5/28/2024 22:37	20403	ASHF_T2	1	0	-1	1.6	0	-1.6	0.16	0.12	0	0	0	0	0	0
5/28/2024 22:37	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:37	17805	GILB_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/28/2024 22:37	51702	OBER_T1	2	2	0	1.45	1.8	0.35	0	0	0	0	0	0	0	0
5/28/2024 22:37	51704	OBER_T1	0	0	0	0	0	0	-0.32	-0.35	0	0	0	0	0	0
5/28/2024 22:37	52402	GRPA_T2	3	4	1	0.8	0.68	-0.12	-0.84	-0.85	0	0	0	0	0	0
5/28/2024 22:37	43301	WATS_T2	0	1	1	0	0.9	0.9	0.28	-0.69	0	1	1	0	900	900
5/28/2024 22:37	52404	GRPA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/28/2024 22:37	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/28/2024 22:38	51704	OBER_T1	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
5/28/2024 22:38	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:38	57403	SPAN_T1	8	35	27	0.13	0.31	0.18	0	0	0	0	0	0	0	0
5/28/2024 22:38	46004	BERW_T2	0	0	0	0	0	0	0.16	0.11	0	0	0	0	0	0
5/28/2024 22:38	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:38	51702	OBER_T1	2	2	0	1.45	1.8	0.35	0	0	0	0	0	0	0	0
5/28/2024 22:38	59102	WALK_T2	8	26	18	0.11	0.15	0.04	0	0	0	0	0	0	0	0
5/28/2024 22:38	59101	WALK_T2	37	70	33	0.26	0.75	0.49	-0.71	-0.75	0	0	0	0	0	0
5/28/2024 22:38	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
5/28/2024 22:38	57401	SPAN_T1	0	1	1	0	0.1	0.1	-1.16	-1.17	1	1	0	600	600	0
5/28/2024 22:38	10801	CHHI_T1	0	0	0	0	0	0	-1.25	-1.4	2	2	0	1500	1500	0
5/28/2024 22:38	42201	SHEN_T2	0	0	0	0	0	0	0.86	0.88	0	0	0	0	0	0
5/28/2024 22:39	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:39	53903	HALI_T2	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:39	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:39	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:39	56802	BENV_T2	5	56	51	0.28	0.17	-0.11	-1.32	-1.31	0	0	0	0	0	0
5/28/2024 22:39	53901	HALI_T2	1	1	0	0.3	0.5	0.2	-1.38	-1.39	0	0	0	0	0	0
5/28/2024 22:39	12701	MACU_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
5/28/2024 22:39	45702	LIND_T2	1	0	-1	0.8	0	-0.8	-0.52	-0.53	0	0	0	0	0	0
5/28/2024 22:39	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:39	67605	WARW_T1	0	14	14	0	0.35	0.35	-1.17	-1.22	0	0	0	0	0	0
5/28/2024 22:39	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/28/2024 22:40	67703	WERN_T2	0	0	0	0	0	0	-0.77	-0.86	1	1	0	900	900	0
5/28/2024 22:40	65401	MARI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/28/2024 22:40	52401	GRPA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/28/2024 22:40	65402	MARI_T1	38	23	-15	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
5/28/2024 22:40	55002	NEWP_T1	2	5	3	0.35	0.3	-0.05	-0.26	-0.27	0	0	0	0	0	0
5/28/2024 22:40	60101	COCA_T1	0	0	0	0	0	0	0.33	0.28	0	0	0	0	0	0
5/28/2024 22:40	66503	SMAN_T2	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
5/28/2024 22:40	52402	GRPA_T2	3	4	1	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
5/28/2024 22:40	52404	GRPA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/28/2024 22:40	52403	GRPA_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
5/28/2024 22:41	42901	MIDD_T2	189	220	31	0.29	0.34	0.05	0	0	0	0	0	0	0	0
5/28/2024 22:41	65401	MARI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/28/2024 22:41	42903	MIDD_T2	6	10	4	0.98	0.69	-0.29	0	0	0	0	0	0	0	0
5/28/2024 22:41	46801	HEPB_T2	3	0	-3	0.7	0	-0.7	0.56	0.56	0	0	0	0	0	0
5/28/2024 22:41	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:41	59102	WALK_T2	8	26	18	0.11	0.15	0.04	0	0	0	0	0	0	0	0
5/28/2024 22:41	42201	SHEN_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
5/28/2024 22:41	53802	MBRG_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
5/28/2024 22:41	59101	WALK_T2	37	70	33	0.26	0.75	0.49	-0.71	-0.75	0	0	0	0	0	0
5/28/2024 22:41	42902	MIDD_T2	67	85	18	0.44	0.51	0.07	-0.23	-0.35	0	0	0	0	0	0
5/28/2024 22:41	53901	HALI_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:41	67605	WARW_T1	0	14	14	0	0.35	0.35	-2.33	-2.44	0	0	0	0	0	0
5/28/2024 22:41	65402	MARI_T1	38	23	-15	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
5/28/2024 22:41	53903	HALI_T2	2	2	0	1	1.2	0.2	-0.15	-0.14	0	0	0	0	0	0
5/28/2024 22:41	13704	SCHN_T2	0	6	6	0	0.27	0.27	-0.35	-0.37	0	0	0	0	0	0
5/28/2024 22:42	42901	MIDD_T2	189	220	31	0.29	0.34	0.05	0	0	0	0	0	0	0	0
5/28/2024 22:42	42902	MIDD_T2	67	85	18	0.44	0.51	0.07	-0.23	-0.35	0	0	0	0	0	0
5/28/2024 22:42	43802	SWIL_T1	0	0	0	0	0	0	-0.07	-0.07	1	1	0	600	600	0
5/28/2024 22:42	24802	VALM_T1	0	0	0	0	0	0	3.22	3.39	0	0	0	0	0	0
5/28/2024 22:42	53901	HALI_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:42	46801	HEPB_T2	3	0	-3	0.7	0	-0.7	0.56	0.56	0	0	0	0	0	0
5/28/2024 22:42	53903	HALI_T2	2	2	0	1	1.2	0.2	-0.15	-0.14	0	0	0	0	0	0
5/28/2024 22:42	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:42	43801	SWIL_T1	31	2	-29	0.38	3.2	2.82	0	0	0	0	0	0	0	0
5/28/2024 22:42	42903	MIDD_T2	6	10	4	0.98	0.69	-0.29	0	0	0	0	0	0	0	0
5/28/2024 22:42	26601	BROO_T1	0	0	0	0	0	0	-0.4	-0.4	1	1	0	600	600	0
5/28/2024 22:43	53901	HALI_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:43	53903	HALI_T2	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
5/28/2024 22:43	60101	COCA_T1	0	0	0	0	0	0	0.33	0.28	0	0	0	0	0	0
5/28/2024 22:43	43105	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/28/2024 22:43	53902	HALI_T2	1	1	0	5.3	5.5	0.2	-0.35	-0.33	0	0	0	0	0	0
5/28/2024 22:43	43103	SMIL_T2	17	16	-1	0.54	0.63	0.09	-0.87	-0.91	0	0	0	0	0	0
5/28/2024 22:43	43102	SMIL_T2	7	6	-1	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
5/28/2024 22:44	44301	BEAV_T2	0	0	0	0	0	0	0.7	0.71	1	1	0	600	600	0
5/28/2024 22:44	43301	WATS_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
5/28/2024 22:44	43304	WATS_T2	0	0	0	0	0	0	-0.3	-0.34	0	0	0	0	0	0
5/28/2024 22:44	52403	GRPA_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
5/28/2024 22:44	41902	REED_T1	0	0	0	0	0	0	1.14	1.1	0	0	0	0	0	0
5/28/2024 22:44	52401	GRPA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/28/2024 22:44	43302	WATS_T2	4	4	0	0.33	0.5	0.17	0	0	0	0	0	0	0	0
5/28/2024 22:44	42901	MIDD_T2	189	220	31	0.29	0.34	0.05	0	0	0	0	0	0	0	0
5/28/2024 22:44	47403	PENS_T1	1	9	8	0.1	0.11	0.01	0	0	0	0	0	0	0	0
5/28/2024 22:44	42902	MIDD_T2	67	85	18	0.44	0.51	0.07	-0.23	-0.35	0	0	0	0	0	0
5/28/2024 22:44	42903	MIDD_T2	6	10	4	0.98	0.69	-0.29	0	0	0	0	0	0	0	0
5/28/2024 22:44	52404	GRPA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/28/2024 22:44	41901	REED_T1	6	6	0	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
5/28/2024 22:44	52402	GRPA_T2	3	4	1	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
5/28/2024 22:44	47401	PENS_T1	0	0	0	0	0	0	0.93	0.95	0	0	0	0	0	0
5/28/2024 22:45	44301	BEAV_T2	0	0	0	0	0	0	0.7	0.71	1	1	0	600	600	0
5/28/2024 22:46	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
5/28/2024 22:46	41901	REED_T1	6	2	-4	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
5/28/2024 22:46	41902	REED_T1	0	0	0	0	0	0	1.14	1.1	0	0	0	0	0	0
5/28/2024 22:48	57403	SPAN_T1	9	115	106	0.13	0.29	0.16	0	0	0	0	0	0	0	0
5/28/2024 22:48	57401	SPAN_T1	0	2	2	0	0.45	0.45	-1.16	-1.17	1	1	0	600	600	0
5/28/2024 22:49	44301	BEAV_T2	0	0	0	0	0	0	0.7	0.71	1	1	0	600	600	0
5/28/2024 22:50	61801	EELI_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
5/28/2024 23:11	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
5/28/2024 23:12	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
5/28/2024 23:21	47901	HRDG_T1	0	0	0	0	0	0	1.01	1.19	1	1	0	1200	1200	0
5/28/2024 23:28	63304	GREE_T1	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
5/28/2024 23:33	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.96	1	1	0	900	900	0
5/28/2024 23:34	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.96	1	1	0	900	900	0
5/29/2024 6:16	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/29/2024 6:16	29402	BELT_T1	1	2	1	7.3	8.1	0.8	0	0	0	0	0	0	0	0
5/29/2024 6:35	57704	PAXT_T2	0	0	0	0	0	0	-0.04	0.06	1	1	0	900	900	0
5/29/2024 6:38	67605	WARW_T1	15	37	22	0.71	0.71	0	-1.07	-1.11	0	0	0	0	0	0
5/29/2024 6:39	67805	WLAN_T1	0	0	0	0	0	0	-1.25	-1.27	0	0	0	0	0	0
5/29/2024 6:44	15001	BLMO_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
5/29/2024 6:52	15204	SPAR_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
5/29/2024 6:55	67503	WEWI_T2	0	0	0	0	0	0	-0.28	-0.25	0	0	0	0	0	0
5/29/2024 6:56	67204	TEHI_T2	0	0	0	0	0	0	-0.31	-0.28	0	0	0	0	0	0
5/29/2024 6:58	62102	ELAN_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
5/29/2024 6:58	29402	BELT_T1	1	1	0	8.1	8	-0.1	0	0	0	0	0	0	0	0
5/29/2024 6:58	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/29/2024 6:58	62101	ELAN_T1	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
5/29/2024 7:00	62102	ELAN_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
5/29/2024 7:00	62101	ELAN_T1	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
5/29/2024 7:01	62101	ELAN_T1	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
5/29/2024 7:01	62102	ELAN_T1	0	0	0	0	0	0	1.07	1.04	0	0	0	0	0	0
5/29/2024 7:05	56803	BENV_T1	1	1	0	1.4	0.1	-1.3	-0.12	-0.11	0	0	0	0	0	0
5/29/2024 7:05	56801	BENV_T1	15	25	10	0.95	1.12	0.17	0	0	0	0	0	0	0	0
5/29/2024 7:06	13303	ORVI_T1	0	0	0	0	0	0	-1.75	-1.71	0	0	0	0	0	0
5/29/2024 7:07	56803	BENV_T1	1	1	0	1.4	0.1	-1.3	-0.24	-0.22	0	0	0	0	0	0
5/29/2024 7:07	56802	BENV_T2	1	1	0	0.5	1.2	0.7	-1.64	-1.47	0	0	0	0	0	0
5/29/2024 7:07	56801	BENV_T1	15	25	10	0.95	1.12	0.17	0	0	0	0	0	0	0	0
5/29/2024 7:08	14601	SWHI_T1	0	0	0	0	0	0	-1.44	-0.86	0	0	0	0	0	0
5/29/2024 7:09	56803	BENV_T1	1	1	0	1.4	0.1	-1.3	-0.11	-0.11	0	0	0	0	0	0
5/29/2024 7:09	56801	BENV_T1	15	25	10	0.95	1.12	0.17	0	0	0	0	0	0	0	0
5/29/2024 7:10	67501	WEWI_T1	8	1	-7	0.14	0.5	0.36	-1.14	-1.14	1	1	0	600	600	0
5/29/2024 7:11	20401	ASHF_T2	0	1	1	0	0.1	0.1	-0.31	-0.28	0	0	0	0	0	0
5/29/2024 7:11	20403	ASHF_T2	0	0	0	0	0	0	1.14	1.55	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/29/2024 7:12	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/29/2024 7:12	29402	BELT_T1	1	1	0	8	7.4	-0.6	0	0	0	0	0	0	0	0
5/29/2024 7:13	67504	WEWI_T1	0	0	0	0	0	0	-0.35	-0.3	1	1	0	900	900	0
5/29/2024 7:13	67501	WEWI_T1	8	1	-7	0.14	0.5	0.36	0	0	0	0	0	0	0	0
5/29/2024 7:14	16301	ALPA_T1	0	1	1	0	0.2	0.2	-0.42	-0.42	0	0	0	0	0	0
5/29/2024 7:17	64904	MILL_T1	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
5/29/2024 7:22	58402	MORO_T1	0	0	0	0	0	0	-0.97	-0.95	3	3	0	2400	2400	0
5/29/2024 7:23	15203	SFAR_T2	0	3	3	0	0.17	0.17	-1.28	-1.24	0	0	0	0	0	0
5/29/2024 7:23	67501	WEWI_T1	1	53	52	0.5	0.2	-0.3	-1.14	-1.08	1	1	0	600	600	0
5/29/2024 7:23	67505	WEWI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 7:27	13704	SOHN_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
5/29/2024 7:28	29402	BELT_T1	1	2	1	7.3	4.25	-3.05	0	0	0	0	0	0	0	0
5/29/2024 7:28	29401	BELT_T1	0	54	54	0	0.22	0.22	0	0	1	1	0	900	900	0
5/29/2024 7:29	56601	HAMP_T1	0	0	0	0	0	0	-1.97	-1.83	0	0	0	0	0	0
5/29/2024 7:31	45501	DERR_T2	1	1	0	0.1	0.1	0	0.82	0.77	2	2	0	1800	1800	0
5/29/2024 7:34	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 7:34	56601	HAMP_T1	0	0	0	0	0	0	-1.97	-1.83	0	0	0	0	0	0
5/29/2024 7:39	15203	SFAR_T2	0	5	5	0	0.22	0.22	-1.18	-1.2	0	0	0	0	0	0
5/29/2024 7:42	51604	DUKE_T2	0	16	16	0	0.13	0.13	-1.38	-0.27	1	0	-1	900	0	-900
5/29/2024 7:43	62607	ENGL_T1	0	0	0	0	0	0	-0.98	-1.01	1	1	0	300	300	0
5/29/2024 7:49	42001	MNVL_T2	0	2	2	0	0.2	0.2	0.01	0.02	0	0	0	0	0	0
5/29/2024 7:49	42002	MNVL_T2	1	3	2	3.3	2.9	-0.4	0	0	0	0	0	0	0	0
5/29/2024 7:49	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.57	0	0	0	0	0	0
5/29/2024 7:50	42001	MNVL_T2	0	2	2	0	0.2	0.2	0.01	0.02	0	0	0	0	0	0
5/29/2024 7:50	52004	LING_T2	1	1	0	0.5	0.5	0	0.37	0.35	0	0	0	0	0	0
5/29/2024 7:50	42002	MNVL_T2	1	3	2	3.3	2.9	-0.4	0	0	0	0	0	0	0	0
5/29/2024 7:50	52006	LING_T2	2	2	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/29/2024 7:50	52002	LING_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/29/2024 7:51	13303	ORVI_T1	0	0	0	0	0	0	-0.58	-0.66	0	0	0	0	0	0
5/29/2024 7:51	52006	LING_T2	2	2	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/29/2024 7:51	52004	LING_T2	1	1	0	0.5	0.5	0	0.37	0.35	0	0	0	0	0	0
5/29/2024 7:51	52002	LING_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/29/2024 7:53	15203	SFAR_T2	3	6	3	0.17	0.2	0.03	-1.18	-1.2	0	0	0	0	0	0
5/29/2024 7:53	42002	MNVL_T2	1	3	2	3.3	2.9	-0.4	0	0	0	0	0	0	0	0
5/29/2024 7:53	42001	MNVL_T2	0	2	2	0	0.2	0.2	0.01	0.02	0	0	0	0	0	0
5/29/2024 7:54	15203	SFAR_T2	3	6	3	0.17	0.2	0.03	-1.2	-1.17	0	0	0	0	0	0
5/29/2024 7:58	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/29/2024 7:58	20403	ASHF_T2	0	0	0	0	0	0	1.53	1.46	0	0	0	0	0	0
5/29/2024 7:59	29402	BELT_T1	2	2	0	4.25	4.35	0.1	0	0	0	0	0	0	0	0
5/29/2024 7:59	29401	BELT_T1	54	50	-4	0.22	0.23	0.01	0	0	2	2	0	1800	1800	0
5/29/2024 8:07	46506	LOHA_T1	1	1	0	0.6	0.8	0.2	-0.38	-0.41	0	0	0	0	0	0
5/29/2024 8:07	57104	SPHI_T2	2	2	0	4.75	2.25	-2.5	-2.03	-1.02	1	0	-1	900	0	-900
5/29/2024 8:07	46504	LOHA_T1	49	41	-8	0.47	0.35	-0.12	0	0	0	0	0	0	0	0
5/29/2024 8:07	57106	SPHI_T2	3	3	0	1.57	1.63	0.06	0	0	0	0	0	0	0	0
5/29/2024 8:07	57101	SPHI_T2	6	6	0	0.97	1.07	0.1	0	0	0	0	0	0	0	0
5/29/2024 8:08	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/29/2024 8:08	66703	STRA_T1	12	42	30	0.23	0.15	-0.08	-0.02	-0.06	0	0	0	0	0	0
5/29/2024 8:08	59101	WALK_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
5/29/2024 8:08	24204	PROV_T3	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
5/29/2024 8:08	24201	PROV_T3	1	1	0	6.3	6.5	0.2	-0.11	-0.05	0	0	0	0	0	0
5/29/2024 8:09	65702	RVIL_T2	0	0	0	0	0	0	-0.93	-0.82	1	1	0	600	600	0
5/29/2024 8:11	66703	STRA_T1	12	42	30	0.23	0.15	-0.08	-0.02	-0.06	0	0	0	0	0	0
5/29/2024 8:11	29401	BELT_T1	50	53	3	0.22	0.21	-0.01	0	0	1	1	0	900	900	0
5/29/2024 8:11	16301	ALPA_T1	1	1	0	0.3	0.2	-0.1	-0.34	-0.32	0	0	0	0	0	0
5/29/2024 8:11	29402	BELT_T1	2	1	-1	4.35	8.6	4.25	0	0	0	0	0	0	0	0
5/29/2024 8:13	51604	DUKE_T2	0	0	0	0	0	0	-1.34	-0.27	1	0	-1	900	0	-900
5/29/2024 8:13	52202	DEVO_T2	0	0	0	0	0	0	-1.35	-0.71	0	0	0	0	0	0
5/29/2024 8:14	64904	MILL_T1	0	0	0	0	0	0	0.61	0.58	0	0	0	0	0	0
5/29/2024 8:14	51604	DUKE_T2	0	0	0	0	0	0	-1.34	-0.27	1	0	-1	900	0	-900
5/29/2024 8:15	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 8:15	20403	ASHF_T2	0	2	2	0	0	0	1.46	1.47	0	0	0	0	0	0
5/29/2024 8:16	55105	WERT_T1	0	0	0	0	0	0	-0.47	-0.4	1	1	0	900	900	0
5/29/2024 8:16	64702	LITI_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
5/29/2024 8:17	11507	FREE_T2	0	0	0	0	0	0	1.28	1.29	0	0	0	0	0	0
5/29/2024 8:19	46901	MNTG_T2	0	0	0	0	0	0	0.23	0.53	1	1	0	1200	1200	0
5/29/2024 8:19	64702	LITI_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
5/29/2024 8:19	46903	MNTG_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/29/2024 8:19	58401	MORO_T1	0	0	0	0	0	0	-0.9	-0.8	1	1	0	600	600	0
5/29/2024 8:20	64702	LITI_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
5/29/2024 8:21	51004	NHAR_T1	13	13	0	1.11	1.02	-0.09	0	0	0	0	0	0	0	0
5/29/2024 8:21	51003	NHAR_T1	0	0	0	0	0	0	-1.52	-1.33	1	1	0	1200	1200	0
5/29/2024 8:21	51002	NHAR_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
5/29/2024 8:22	58402	MORO_T1	0	0	0	0	0	0	-0.98	-0.96	3	3	0	2400	2400	0
5/29/2024 8:22	56802	BENV_T2	8	25	17	0.39	0.24	-0.15	-1.52	-0.81	0	0	0	0	0	0
5/29/2024 8:23	57101	SPHI_T2	6	6	0	1.07	1	-0.07	0	0	0	0	0	0	0	0
5/29/2024 8:23	57103	SPHI_T2	0	0	0	0	0	0	-0.26	-0.28	1	1	0	600	600	0
5/29/2024 8:23	57106	SPHI_T2	3	3	0	1.37	1.63	0.26	0	0	0	0	0	0	0	0
5/29/2024 8:23	57104	SPHI_T2	2	2	0	2.4	3.15	0.75	0	0	0	0	0	0	0	0
5/29/2024 8:24	57104	SPHI_T2	2	2	0	2.4	3.15	0.75	0	0	0	0	0	0	0	0
5/29/2024 8:24	57106	SPHI_T2	3	3	0	1.37	1.63	0.26	0	0	0	0	0	0	0	0
5/29/2024 8:24	57101	SPHI_T2	6	6	0	1.07	1	-0.07	0.32	0.34	0	0	0	0	0	0
5/29/2024 8:24	56802	BENV_T2	8	25	17	0.39	0.24	-0.15	-0.81	-0.62	0	0	0	0	0	0
5/29/2024 8:25	56802	BENV_T2	8	25	17	0.39	0.24	-0.15	-2.43	-1.87	0	0	0	0	0	0
5/29/2024 8:26	20403	ASHF_T2	0	2	2	0	0	0	1.47	1.29	0	0	0	0	0	0
5/29/2024 8:26	67501	WEWI_T1	1	9	8	0.2	0.31	0.11	0	0	0	0	0	0	0	0
5/29/2024 8:26	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 8:26	67505	WEWI_T1	0	3	3	0	0.27	0.27	-0.07	-0.01	1	1	0	900	900	0
5/29/2024 8:27	62102	ELAN_T1	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
5/29/2024 8:31	49803	UNIV_T1	0	0	0	0	0	0	-1.03	-0.99	0	0	0	0	0	0
5/29/2024 8:32	55105	WERT_T1	0	0	0	0	0	0	-0.4	-0.41	1	1	0	900	900	0
5/29/2024 8:32	55101	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 8:33	13503	MCMI_T2	1	1	0	0.1	0.9	0.8	-0.01	-0.01	0	0	0	0	0	0
5/29/2024 8:33	25402	LAHA_T2	1	1	0	0.3	0.3	0	-0.68	-0.56	0	0	0	0	0	0
5/29/2024 8:34	22905	HARW_T1	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
5/29/2024 8:35	66302	MCGO_T2	399	398	-1	0.37	0.38	0.01	-1.64	-1.72	1	1	0	600	600	0
5/29/2024 8:37	15203	SFAR_T2	4	4	0	0.23	0.45	0.22	-1.16	-1.15	0	0	0	0	0	0
5/29/2024 8:38	56802	BENV_T2	1	173	172	1	0.2	-0.8	-1.87	-2.2	0	0	0	0	0	0
5/29/2024 8:39	14404	SSLA_T1	1	2	1	6.1	3.05	-3.05	0	0	0	0	0	0	0	0
5/29/2024 8:39	59101	WALK_T2	0	1	1	0	0.1	0.1	-0.06	0	0	0	0	0	0	0
5/29/2024 8:39	59102	WALK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/29/2024 8:39	56802	BENV_T2	1	173	172	1	0.2	-0.8	-0.62	-0.73	0	0	0	0	0	0
5/29/2024 8:39	14403	SSLA_T1	1	1	0	0.1	0	-0.1	0.74	0.77	0	0	0	0	0	0
5/29/2024 8:40	14403	SSLA_T1	1	1	0	0.1	0	-0.1	0.74	0.77	0	0	0	0	0	0
5/29/2024 8:40	15701	TANN_T1	2	1	-1	2.35	4.6	2.25	0	0	0	0	0	0	0	0
5/29/2024 8:40	56802	BENV_T2	1	173	172	1	0.2	-0.8	-1.25	-1.46	0	0	0	0	0	0
5/29/2024 8:40	56803	BENV_T1	0	6	6	0	0.22	0.22	-0.08	-0.08	0	0	0	0	0	0
5/29/2024 8:40	56801	BENV_T1	9	19	10	0.61	0.89	0.28	-0.32	-0.32	1	1	0	600	600	0
5/29/2024 8:40	14404	SSLA_T1	1	2	1	6.1	3.05	-3.05	0.04	0.05	0	0	0	0	0	0
5/29/2024 8:40	15704	TANN_T1	0	0	0	0	0	0	-1.16	-1.17	0	0	0	0	0	0
5/29/2024 8:41	59101	WALK_T2	0	1	1	0	0.1	0.1	-0.06	0	0	0	0	0	0	0
5/29/2024 8:41	14404	SSLA_T1	1	2	1	6.1	3.05	-3.05	0.04	0.05	0	0	0	0	0	0
5/29/2024 8:41	59102	WALK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/29/2024 8:41	14403	SSLA_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/29/2024 8:41	15001	BLMO_T1	4	5	1	0.1	0.16	0.06	0	0	0	0	0	0	0	0
5/29/2024 8:42	15001	BLMO_T1	4	5	1	0.1	0.16	0.06	0	0	0	0	0	0	0	0
5/29/2024 8:42	59101	WALK_T2	0	1	1	0	0.1	0.1	-0.06	0	0	0	0	0	0	0
5/29/2024 8:42	59102	WALK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/29/2024 8:44	45501	DERR_T2	0	2	2	0	0.2	0.2	0.65	0.66	2	2	0	1800	1800	0
5/29/2024 8:45	63303	GREE_T1	0	0	0	0	0	0	-0.25	-0.24	2	2	0	1800	1800	0
5/29/2024 8:45	63305	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 8:46	10805	CHHI_T2	1	2	1	9	8.7	-0.3	-0.75	-0.79	1	1	0	600	600	0
5/29/2024 8:47	40101	HUNT_T2	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
5/29/2024 8:48	63306	GREE_T1	0	0	0	0	0	0	-1.37	-1.4	1	1	0	900	900	0
5/29/2024 8:48	63305	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 8:49	55002	NEWP_T1	18	13	-5	0.72	0.86	0.14	-0.2	-0.2	0	0	0	0	0	0
5/29/2024 8:49	58102	NEKI_T1	2	2	0	1	1.15	0.15	-0.9	-0.89	1	1	0	1200	1200	0
5/29/2024 8:49	64902	MILL_T2	0	0	0	0	0	0	-0.46	-0.49	1	1	0	900	900	0
5/29/2024 8:49	58101	NEKI_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
5/29/2024 8:50	57103	SPHI_T2	0	0	0	0	0	0	-0.28	-0.28	1	1	0	600	600	0
5/29/2024 8:50	57101	SPHI_T2	6	6	0	0.82	0.97	0.15	0	0	0	0	0	0	0	0
5/29/2024 8:50	57104	SPHI_T2	2	2	0	3.55	0.25	-3.3	0	0	0	0	0	0	0	0
5/29/2024 8:50	57106	SPHI_T2	3	3	0	1.13	1.23	0.1	0	0	0	0	0	0	0	0
5/29/2024 8:50	40101	HUNT_T2	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
5/29/2024 8:51	46506	LOHA_T1	1	4	3	0.8	0.8	0	0	0	0	0	0	0	0	0
5/29/2024 8:51	58101	NEKI_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
5/29/2024 8:51	46504	LOHA_T1	44	15	-29	0.39	0.23	-0.16	0	0	0	0	0	0	0	0
5/29/2024 8:51	58102	NEKI_T1	2	2	0	1	1.15	0.15	-0.9	-0.89	1	1	0	1200	1200	0
5/29/2024 8:51	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
5/29/2024 8:52	55002	NEWP_T1	18	13	-5	0.72	0.86	0.14	-0.6	-0.6	0	0	0	0	0	0
5/29/2024 8:52	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
5/29/2024 8:53	57403	SPAN_T1	19	33	14	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
5/29/2024 8:53	57401	SPAN_T1	0	0	0	0	0	0	-0.62	-0.24	1	1	0	600	600	0
5/29/2024 8:54	57401	SPAN_T1	0	0	0	0	0	0	-0.62	-0.24	1	1	0	600	600	0
5/29/2024 8:54	57403	SPAN_T1	19	33	14	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
5/29/2024 8:55	57403	SPAN_T1	19	33	14	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
5/29/2024 8:55	59102	WALK_T2	1	6	5	0.2	0.23	0.03	0	0	0	0	0	0	0	0
5/29/2024 8:55	57401	SPAN_T1	0	0	0	0	0	0	-0.62	-0.24	1	1	0	600	600	0
5/29/2024 8:55	59101	WALK_T2	0	50	50	0	0.39	0.39	0	-0.2	0	0	0	0	0	0
5/29/2024 8:56	51301	WIND_T1	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/29/2024 8:56	67401	WAKE_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 8:56	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 8:56	67505	WEWI_T1	3	3	0	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
5/29/2024 8:56	67501	WEWI_T1	9	6	-3	0.31	0.5	0.19	0	0	0	0	0	0	0	0
5/29/2024 8:56	67504	WEWI_T1	0	0	0	0	0	0	-0.14	-0.06	1	1	0	900	900	0
5/29/2024 8:56	67402	WAKE_T2	0	0	0	0	0	0	0.52	0.54	1	1	0	600	600	0
5/29/2024 8:56	51305	WIND_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 8:57	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 8:57	51305	WIND_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 8:57	51301	WIND_T1	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/29/2024 8:57	67402	WAKE_T2	0	0	0	0	0	0	0.52	0.54	1	1	0	600	600	0
5/29/2024 8:57	67502	WEWI_T2	2	4	2	0.35	0.28	-0.07	-0.22	-0.1	0	0	0	0	0	0
5/29/2024 8:57	57403	SPAN_T1	19	33	14	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
5/29/2024 8:57	67401	WAKE_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/29/2024 8:57	57401	SPAN_T1	0	0	0	0	0	0	-0.62	-0.24	1	1	0	600	600	0
5/29/2024 8:58	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 8:58	51301	WIND_T1	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/29/2024 8:58	51305	WIND_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 9:00	52402	GRPA_T2	8	10	2	0.43	0.48	0.05	0	0	0	0	0	0	0	0
5/29/2024 9:00	52403	GRPA_T2	1	15	14	0.5	0.27	-0.23	0.16	0.17	0	0	0	0	0	0
5/29/2024 9:00	52401	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 9:02	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/29/2024 9:03	50501	MECH_T1	4	4	0	1.15	1.63	0.48	-0.46	-0.93	0	0	0	0	0	0
5/29/2024 9:03	50506	MECH_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/29/2024 9:03	52403	GRPA_T2	1	15	14	0.5	0.27	-0.23	0.16	0.17	0	0	0	0	0	0
5/29/2024 9:03	52401	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 9:03	50502	MECH_T1	1	1	0	2	2.4	0.4	0	0	0	0	0	0	0	0
5/29/2024 9:03	52402	GRPA_T2	8	10	2	0.43	0.48	0.05	0	0	0	0	0	0	0	0
5/29/2024 9:03	40101	HUNT_T2	0	0	0	0	0	0	-0.54	-0.51	0	0	0	0	0	0
5/29/2024 9:04	56802	BENV_T2	172	121	-51	0.2	0.2	0	-0.73	-0.77	0	0	0	0	0	0
5/29/2024 9:05	56802	BENV_T2	172	121	-51	0.2	0.2	0	-0.73	-0.77	0	0	0	0	0	0
5/29/2024 9:06	58402	MORO_T1	0	0	0	0	0	0	-0.94	-0.91	3	3	0	2400	2400	0
5/29/2024 9:07	58402	MORO_T1	0	0	0	0	0	0	-0.94	-0.91	3	3	0	2400	2400	0
5/29/2024 9:09	67605	WARW_T1	16	15	-1	0.49	0.43	-0.06	-0.91	-0.98	0	0	0	0	0	0
5/29/2024 9:11	17002	RIRO_T2	5	4	-1	0.74	0.9	0.16	0.73	0.66	0	0	0	0	0	0
5/29/2024 9:11	20403	ASHF_T2	0	4	4	0	0.2	0.2	1.37	1.39	0	0	0	0	0	0
5/29/2024 9:12	15702	TANN_T2	1	3	2	0.2	0.37	0.17	-0.4	-0.29	0	0	0	0	0	0
5/29/2024 9:12	67605	WARW_T1	16	15	-1	0.49	0.43	-0.06	-0.91	-0.98	0	0	0	0	0	0
5/29/2024 9:12	15703	TANN_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
5/29/2024 9:13	29401	BELT_T1	24	19	-5	0.16	0.18	0.02	0	0	3	3	0	2700	2700	0
5/29/2024 9:13	44301	BEAV_T2	0	1	1	0	0	0	1.36	1.64	1	1	0	600	600	0
5/29/2024 9:13	67605	WARW_T1	16	15	-1	0.49	0.43	-0.06	-1.81	-1.96	0	0	0	0	0	0
5/29/2024 9:13	29402	BELT_T1	1	1	0	8.7	8.6	-0.1	0	0	0	0	0	0	0	0
5/29/2024 9:14	23901	EFMO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 9:15	46801	HEPB_T2	2	2	0	0.95	0.8	-0.15	0.69	0.73	0	0	0	0	0	0
5/29/2024 9:15	62105	ELAN_T1	0	0	0	0	0	0	0.46	0.49	0	0	0	0	0	0
5/29/2024 9:15	46803	HEPB_T2	1	2	1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
5/29/2024 9:16	52403	GRPA_T2	15	0	-15	0.27	0	-0.27	0	0	0	0	0	0	0	0
5/29/2024 9:16	52402	GRPA_T2	10	7	-3	0.47	0.27	-0.2	-0.76	-0.74	0	0	0	0	0	0
5/29/2024 9:16	52401	GRPA_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/29/2024 9:17	46803	HEPB_T2	1	2	1	0.6	0.55	-0.05	0.49	0.52	0	0	0	0	0	0
5/29/2024 9:17	52402	GRPA_T2	10	7	-3	0.47	0.27	-0.2	-0.76	-0.74	0	0	0	0	0	0
5/29/2024 9:17	46801	HEPB_T2	2	2	0	0.95	0.8	-0.15	0	0	0	0	0	0	0	0
5/29/2024 9:17	62105	ELAN_T1	0	0	0	0	0	0	0.46	0.49	0	0	0	0	0	0
5/29/2024 9:17	52401	GRPA_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/29/2024 9:17	52403	GRPA_T2	15	0	-15	0.27	0	-0.27	0	0	0	0	0	0	0	0
5/29/2024 9:18	52401	GRPA_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/29/2024 9:18	52403	GRPA_T2	15	0	-15	0.27	0	-0.27	0.17	0.16	0	0	0	0	0	0
5/29/2024 9:18	52402	GRPA_T2	10	7	-3	0.47	0.27	-0.2	0	0	0	0	0	0	0	0
5/29/2024 9:20	55002	NEWP_T1	12	11	-1	0.88	0.85	-0.03	-0.2	-0.19	0	0	0	0	0	0
5/29/2024 9:23	55002	NEWP_T1	12	11	-1	0.88	0.85	-0.03	-0.19	-0.19	0	0	0	0	0	0
5/29/2024 9:24	55002	NEWP_T1	12	11	-1	0.88	0.85	-0.03	-0.38	-0.38	0	0	0	0	0	0
5/29/2024 9:24	58302	NOTT_T1	0	0	0	0	0	0	-0.29	-0.18	1	1	0	1200	1200	0
5/29/2024 9:24	67201	TEHI_T1	0	10	10	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 9:24	67203	TEHI_T1	0	6	6	0	0	0	2.6	2.58	3	3	0	2100	2100	0
5/29/2024 9:27	45902	AUBU_T1	0	0	0	0	0	0	-1.05	-0.84	2	2	0	1200	1200	0
5/29/2024 9:28	45902	AUBU_T1	0	0	0	0	0	0	-0.53	-0.42	1	1	0	600	600	0
5/29/2024 9:29	44301	BEAV_T2	0	1	1	0	2.2	2.2	1.64	1.55	1	1	0	600	600	0
5/29/2024 9:29	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 9:33	17804	GILB_T2	1	3	2	1.7	0.33	-1.37	-0.55	-0.56	0	0	0	0	0	0
5/29/2024 9:33	17803	GILB_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
5/29/2024 9:34	40101	HUNT_T2	0	0	0	0	0	0	-0.47	-0.4	0	0	0	0	0	0
5/29/2024 9:35	49804	UNIV_T1	0	22	22	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 9:35	49803	UNIV_T1	0	0	0	0	0	0	-0.92	-0.92	0	0	0	0	0	0
5/29/2024 9:38	46302	ROHR_T1	4	4	0	1.85	1.85	0	0.14	0.14	0	0	0	0	0	0
5/29/2024 9:38	46301	ROHR_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/29/2024 9:39	67702	WERN_T2	0	0	0	0	0	0	-0.01	0.04	0	0	0	0	0	0
5/29/2024 9:39	67703	WERN_T2	0	0	0	0	0	0	-0.02	-0.03	2	2	0	1800	1800	0
5/29/2024 9:40	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
5/29/2024 9:41	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
5/29/2024 9:42	67703	WERN_T2	0	0	0	0	0	0	-0.02	-0.03	2	2	0	1800	1800	0
5/29/2024 9:43	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
5/29/2024 9:44	67702	WERN_T2	0	0	0	0	0	0	-0.01	0.04	0	0	0	0	0	0
5/29/2024 9:44	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
5/29/2024 9:46	61001	DONV_T1	1	1	0	0.3	0.9	0.6	-0.05	-0.04	0	0	0	0	0	0
5/29/2024 9:48	65402	MARI_T1	60	83	23	0.2	0.47	0.27	83.96	83.96	0	0	0	0	0	0
5/29/2024 9:49	45702	LIND_T2	1	1	0	0.3	0.1	-0.2	-0.19	-0.34	0	0	0	0	0	0
5/29/2024 9:49	46803	HEPB_T2	1	0	-1	0.5	0	-0.5	0.49	0.44	0	0	0	0	0	0
5/29/2024 9:49	46801	HEPB_T2	2	2	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
5/29/2024 9:50	56802	BENV_T2	12	107	95	0.62	0.2	-0.42	-0.76	-0.74	0	0	0	0	0	0
5/29/2024 9:51	65402	MARI_T1	60	83	23	0.2	0.47	0.27	83.96	83.96	0	0	0	0	0	0
5/29/2024 9:51	60605	NCOL_T2	0	0	0	0	0	0	-1.12	-1.11	0	0	0	0	0	0
5/29/2024 9:52	42902	MIDD_T2	1	3	2	0.5	0.57	0.07	-0.13	-0.17	1	1	0	600	600	0
5/29/2024 9:52	42903	MIDD_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/29/2024 9:52	65402	MARI_T1	60	83	23	0.2	0.47	0.27	83.96	83.96	0	0	0	0	0	0
5/29/2024 9:53	65402	MARI_T1	60	83	23	0.2	0.47	0.27	83.96	83.96	0	0	0	0	0	0
5/29/2024 9:54	59101	WALK_T2	39	2	-37	0.23	0.35	0.12	-0.34	0.29	0	0	0	0	0	0
5/29/2024 9:54	59102	WALK_T2	3	1	-2	0.2	0.8	0.6	0	0	0	0	0	0	0	0
5/29/2024 9:54	65402	MARI_T1	60	83	23	0.2	0.47	0.27	83.96	83.96	0	0	0	0	0	0
5/29/2024 9:55	61103	BERK_T5	0	1	1	0	0.1	0.1	0.17	0.21	0	0	0	0	0	0
5/29/2024 9:55	61101	BERK_T5	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/29/2024 9:55	61102	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/29/2024 9:55	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 9:56	59102	WALK_T2	3	1	-2	0.2	0.8	0.6	0	0	0	0	0	0	0	0
5/29/2024 9:56	58002	WCAR_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/29/2024 9:56	59101	WALK_T2	39	2	-37	0.23	0.35	0.12	-0.17	0.15	0	0	0	0	0	0
5/29/2024 9:56	58006	WCAR_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
5/29/2024 9:56	65702	RVIL_T2	0	0	0	0	0	0	-0.73	-0.74	1	1	0	600	600	0
5/29/2024 9:57	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 9:57	59101	WALK_T2	39	2	-37	0.23	0.35	0.12	-0.34	0.29	0	0	0	0	0	0
5/29/2024 9:57	59102	WALK_T2	3	1	-2	0.2	0.8	0.6	0	0	0	0	0	0	0	0
5/29/2024 9:58	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 10:00	67502	WEWI_T2	2	2	0	0.6	1	0.4	-0.1	-0.07	0	0	0	0	0	0
5/29/2024 10:00	51004	NHAR_T1	11	14	3	0.75	0.94	0.19	0	0	0	0	0	0	0	0
5/29/2024 10:00	15601	NSTR_T2	3	3	0	0.43	0.6	0.17	0	0	0	0	0	0	0	0
5/29/2024 10:00	43402	BENT_T1	0	0	0	0	0	0	-0.65	-0.65	1	1	0	900	900	0
5/29/2024 10:00	42903	MIDD_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/29/2024 10:00	51002	NHAR_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/29/2024 10:00	61103	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/29/2024 10:00	65402	MARI_T1	59	83	24	0.12	0.47	0.35	83.96	83.96	0	0	0	0	0	0
5/29/2024 10:00	67605	WARW_T1	11	11	0	0.33	0.45	0.12	-0.95	-1.03	0	0	0	0	0	0
5/29/2024 10:00	58102	NEKI_T1	2	3	1	1	1.13	0.13	-0.65	-0.58	1	1	0	1200	1200	0
5/29/2024 10:00	61101	BERK_T5	1	4	3	0.9	0.35	-0.55	0	0	0	0	0	0	0	0
5/29/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-0.98	-0.95	1	1	0	900	900	0
5/29/2024 10:00	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/29/2024 10:00	42902	MIDD_T2	3	4	1	0.57	0.28	-0.29	-0.17	-0.16	1	1	0	600	600	0
5/29/2024 10:00	51003	NHAR_T1	0	0	0	0	0	0	-1.17	-1.09	1	1	0	1200	1200	0
5/29/2024 10:00	45501	DERR_T2	1	2	1	0.6	0.35	-0.25	0.92	1.02	2	2	0	1800	1800	0
5/29/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.32	0	0	0	0	0	0
5/29/2024 10:00	40302	TAMA_T3	0	1	1	0	0.1	0.1	0.16	0.12	0	0	0	0	0	0
5/29/2024 10:00	41902	REED_T1	0	1	1	0	0.2	0.2	1.23	1.2	0	0	0	0	0	0
5/29/2024 10:00	46004	BERW_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/29/2024 10:00	58101	NEKI_T1	1	4	3	0.9	0.63	-0.27	0	0	0	0	0	0	0	0
5/29/2024 10:00	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.48	-0.49	1	1	0	600	600	0
5/29/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.1	0.2	0	0	0	0	0	0
5/29/2024 10:00	56802	BENV_T2	3	110	107	0.6	0.2	-0.4	-0.74	-0.73	0	0	0	0	0	0
5/29/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	0.11	-0.07	0	0	0	0	0	0
5/29/2024 10:00	15704	TANN_T1	0	1	1	0	0.1	0.1	-1.07	-1.06	0	0	0	0	0	0
5/29/2024 10:00	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 10:00	61102	BERK_T5	0	0	0	0	0	0	0.11	0.19	1	1	0	300	300	0
5/29/2024 10:00	15603	NSTR_T2	2	1	-1	0.25	0.7	0.45	-0.69	-0.69	0	0	0	0	0	0
5/29/2024 10:00	46801	HEPB_T2	2	2	0	0.55	0.95	0.4	0.75	0.76	0	0	0	0	0	0
5/29/2024 10:00	15701	TANN_T1	2	2	0	2.4	2.45	0.05	0	0	0	0	0	0	0	0
5/29/2024 10:00	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	-0.15	0	0	0	0	0	0	0
5/29/2024 10:00	15702	TANN_T2	2	4	2	0.85	1.78	0.93	-0.35	-0.22	0	0	0	0	0	0
5/29/2024 10:00	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
5/29/2024 10:00	40505	CRES_T1	3	3	0	3.87	4.03	0.16	0.47	0.42	0	0	0	0	0	0
5/29/2024 10:03	54504	ENOL_T2	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
5/29/2024 10:03	54505	ENOL_T2	1	2	1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/29/2024 10:03	42902	MIDD_T2	3	4	1	0.57	0.28	-0.29	-0.17	-0.16	1	1	0	600	600	0
5/29/2024 10:03	54501	ENOL_T2	0	0	0	0	0	0	-0.45	0.22	1	0	-1	600	0	-600
5/29/2024 10:03	54502	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/29/2024 10:03	42903	MIDD_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/29/2024 10:04	42902	MIDD_T2	3	4	1	0.57	0.28	-0.29	-0.17	-0.16	1	1	0	600	600	0
5/29/2024 10:04	42903	MIDD_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/29/2024 10:07	42902	MIDD_T2	3	4	1	0.57	0.28	-0.29	-0.35	-0.32	2	2	0	1200	1200	0
5/29/2024 10:07	52403	GRPA_T2	4	4	0	0.23	0.28	0.05	0.15	0.18	0	0	0	0	0	0
5/29/2024 10:07	13503	MCMI_T2	1	5	4	0.8	0.48	-0.32	-0.01	-0.01	0	0	0	0	0	0
5/29/2024 10:07	42903	MIDD_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/29/2024 10:07	52402	GRPA_T2	6	9	3	0.38	0.42	0.04	0	0	0	0	0	0	0	0
5/29/2024 10:08	66504	SMAN_T2	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
5/29/2024 10:08	58102	NEKI_T1	2	3	1	1	1.13	0.13	-0.58	-0.42	1	1	0	1200	1200	0
5/29/2024 10:08	42902	MIDD_T2	3	4	1	0.57	0.28	-0.29	-0.17	-0.16	1	1	0	600	600	0
5/29/2024 10:08	66502	SMAN_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
5/29/2024 10:08	42903	MIDD_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/29/2024 10:08	17002	RIRO_T2	3	4	1	0.63	0.48	-0.15	0.73	0.75	0	0	0	0	0	0
5/29/2024 10:08	58101	NEKI_T1	1	4	3	0.9	0.63	-0.27	0	0	0	0	0	0	0	0
5/29/2024 10:09	66502	SMAN_T2	2	1	-1	0.15	0.2	0.05	0.46	0.42	0	0	0	0	0	0
5/29/2024 10:09	67204	TEHI_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
5/29/2024 10:10	67702	WERN_T2	0	1	1	0	0.3	0.3	0.06	-0.02	0	0	0	0	0	0
5/29/2024 10:10	67605	WARW_T1	11	0	0.33	0.45	0.12	-2.05	-1.89	0	0	0	0	0	0	0
5/29/2024 10:10	20401	ASHF_T2	0	5	5	0	0.24	0.24	-0.3	-0.25	0	0	0	0	0	0
5/29/2024 10:10	20403	ASHF_T2	2	5	3	1.75	0.23	-1.52	1.58	1.55	0	0	0	0	0	0
5/29/2024 10:10	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/29/2024 10:10	20402	ASHF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 10:10	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/29/2024 10:11	59102	WALK_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
5/29/2024 10:11	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 10:11	67503	WEWI_T2	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0
5/29/2024 10:11	15001	BLMO_T1	0	4	4	0	0.8	0.8	0	0	0	0	0	0	0	0
5/29/2024 10:11	67703	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	2	2	0	1800	1800	0
5/29/2024 10:11	67502	WEWI_T2	2	2	0	0.6	1	0.4	0	0	0	0	0	0	0	0
5/29/2024 10:11	27502	WEIS_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
5/29/2024 10:11	26603	BROO_T1	0	0	0	0	0	0	0.43	-0.07	0	0	0	0	0	0
5/29/2024 10:11	65001	NEFF_T2	0	0	0	0	0	0	-0.18	-0.13	1	1	0	1200	1200	0
5/29/2024 10:11	67702	WERN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/29/2024 10:11	59101	WALK_T2	2	1	-1	0.35	0.2	-0.15	0.15	0.14	0	0	0	0	0	0
5/29/2024 10:12	59101	WALK_T2	2	1	-1	0.35	0.2	-0.15	0.15	0.14	0	0	0	0	0	0
5/29/2024 10:12	26603	BROO_T1	0	0	0	0	0	0	0.43	-0.07	0	0	0	0	0	0
5/29/2024 10:12	59102	WALK_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
5/29/2024 10:13	24602	VARD_T2	360	396	36	0.4	0.54	0.14	-0.6	-0.56	0	0	0	0	0	0
5/29/2024 10:13	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
5/29/2024 10:13	45501	DERR_T2	1	2	1	0.6	0.35	-0.25	1.02	1.01	2	2	0	1800	1800	0
5/29/2024 10:13	10801	CHHI_T1	5	5	0	1.08	0.68	-0.4	-1.06	-0.99	2	2	0	1500	1500	0
5/29/2024 10:13	52202	DEVO_T2	0	0	0	0	0	0	-0.62	-0.59	0	0	0	0	0	0
5/29/2024 10:13	67702	WERN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/29/2024 10:13	24603	VARD_T2	10	18	8	0.23	0.27	0.04	0	0	0	0	0	0	0	0
5/29/2024 10:13	67605	WARW_T1	11	11	0	0.33	0.45	0.12	-2.05	-1.89	0	0	0	0	0	0
5/29/2024 10:13	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/29/2024 10:13	52204	DEVO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 10:14	20401	ASHF_T2	0	5	5	0	0.24	0.24	0	0	0	0	0	0	0	0
5/29/2024 10:14	14203	EALL_T1	0	5	5	0	0.72	0.72	0.16	0.11	1	1	0	1200	1200	0
5/29/2024 10:14	20403	ASHF_T2	2	5	3	1.75	0.23	-1.52	1.58	1.55	0	0	0	0	0	0
5/29/2024 10:14	67702	WERN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/29/2024 10:14	45501	DERR_T2	1	2	1	0.6	0.35	-0.25	1.02	1.01	2	2	0	1800	1800	0
5/29/2024 10:14	20402	ASHF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 10:14	67703	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	2	2	0	1800	1800	0
5/29/2024 10:15	52204	DEVO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 10:15	61801	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 10:15	10805	CHHI_T2	2	2	0	4.75	4.8	0.05	-0.72	-0.66	1	1	0	600	600	0
5/29/2024 10:15	17803	GILB_T2	3	2	-1	0.27	0.4	0.13	0	0	0	0	0	0	0	0
5/29/2024 10:15	15001	BLMO_T1	4	2	-2	0.53	0.8	0.27	0	0	0	0	0	0	0	0
5/29/2024 10:15	46801	HEPB_T2	2	2	0	0.65	0.95	0.3	0.76	0.73	0	0	0	0	0	0
5/29/2024 10:15	52202	DEVO_T2	0	0	0	0	0	0	-0.62	-0.59	0	0	0	0	0	0
5/29/2024 10:15	46803	HEPB_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/29/2024 10:15	17804	GILB_T2	3	5	2	0.6	0.42	-0.18	-0.55	-0.53	0	0	0	0	0	0
5/29/2024 10:15	61803	EELI_T2	0	1	1	0	0.2	0.2	0.5	0.59	1	1	0	600	600	0
5/29/2024 10:16	20401	ASHF_T2	2	6	4	0.2	0.24	0.04	0	0	0	0	0	0	0	0
5/29/2024 10:16	23901	EFMO_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
5/29/2024 10:16	20403	ASHF_T2	3	4	1	0.23	0.5	0.27	1.58	1.55	0	0	0	0	0	0
5/29/2024 10:16	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/29/2024 10:16	52403	GRPA_T2	2	4	2	0.25	0.28	0.03	0.18	0.18	0	0	0	0	0	0
5/29/2024 10:16	20402	ASHF_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
5/29/2024 10:16	52402	GRPA_T2	9	7	-2	0.37	0.43	0.06	0	0	0	0	0	0	0	0
5/29/2024 10:17	10801	CHHI_T1	5	3	-2	0.68	0.47	-0.21	-1.06	-0.99	2	2	0	1500	1500	0
5/29/2024 10:17	15001	BLMO_T1	4	2	-2	0.53	0.8	0.27	0	0	0	0	0	0	0	0
5/29/2024 10:18	46803	HEPB_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/29/2024 10:18	46801	HEPB_T2	2	2	0	0.65	0.95	0.3	0.76	0.73	0	0	0	0	0	0
5/29/2024 10:19	45801	HEGI_T1	0	0	0	0	0	0	0.17	0.23	1	1	0	900	900	0
5/29/2024 10:19	46801	HEPB_T2	2	2	0	0.65	0.95	0.3	0.76	0.73	0	0	0	0	0	0
5/29/2024 10:19	13503	MCMI_T2	2	5	3	0.65	0.56	-0.09	-0.01	-0.01	0	0	0	0	0	0
5/29/2024 10:19	46803	HEPB_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/29/2024 10:19	44701	MUNC_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/29/2024 10:19	44703	MUNC_T2	2	0	-2	0.1	0	-0.1	0.82	0.85	0	0	0	0	0	0
5/29/2024 10:20	13502	MCMI_T1	1	2	1	1	0.5	-0.5	0	0	0	0	0	0	0	0
5/29/2024 10:20	13501	MCMI_T1	1	1	0	0.1	0.1	0	0.06	0.11	0	0	0	0	0	0
5/29/2024 10:20	65402	MARI_T1	83	20	-63	0.47	0.17	-0.3	167.92	167.92	0	0	0	0	0	0
5/29/2024 10:21	43201	MVIL_T2	0	0	0	0	0	0	-1.28	-1.28	0	0	0	0	0	0
5/29/2024 10:22	65402	MARI_T1	83	20	-63	0.47	0.17	-0.3	83.96	83.96	0	0	0	0	0	0
5/29/2024 10:22	13503	MCMI_T2	2	5	3	0.65	0.56	-0.09	-0.01	-0.01	0	0	0	0	0	0
5/29/2024 10:23	54602	SUMM_T2	0	0	0	0	0	0	-2.17	-2.2	1	1	0	600	600	0
5/29/2024 10:23	57403	SPAN_T1	15	11	-4	0.29	0.25	-0.04	0	0	0	0	0	0	0	0
5/29/2024 10:23	48302	ORWI_T2	2	1	-1	0.25	0.2	-0.05	0.15	0.19	0	0	0	0	0	0
5/29/2024 10:23	67603	WARW_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
5/29/2024 10:23	54601	SUMM_T2	10	8	-2	0.62	0.38	-0.24	0	0	0	0	0	0	0	0
5/29/2024 10:23	65402	MARI_T1	83	20	-63	0.47	0.17	-0.3	83.96	83.96	0	0	0	0	0	0
5/29/2024 10:23	57401	SPAN_T1	1	1	0	0.4	0.2	-0.2	-1.6	-1.45	2	2	0	1200	1200	0
5/29/2024 10:23	67605	WARW_T1	11	12	1	0.43	0.56	0.13	-0.94	-0.96	0	0	0	0	0	0
5/29/2024 10:24	55101	WERT_T1	0	0	0	0	0	0	-2.14	-2	4	4	0	3000	3000	0
5/29/2024 10:24	14402	SSLA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/29/2024 10:24	14403	SSLA_T1	2	2	0	0.3	0.45	0.15	0.86	0.92	0	0	0	0	0	0
5/29/2024 10:24	67603	WARW_T1	0	2	2	0	0.35	0.35	0.05	0.1	0	0	0	0	0	0
5/29/2024 10:24	14401	SSLA_T1	1	2	1	0.7	0.15	-0.55	0	0	0	0	0	0	0	0
5/29/2024 10:24	65503	MOJO_T2	0	0	0	0	0	0	-0.69	-0.55	1	1	0	900	900	0
5/29/2024 10:24	67605	WARW_T1	11	12	1	0.43	0.56	0.13	-0.94	-0.96	0	0	0	0	0	0
5/29/2024 10:24	14404	SSLA_T1	2	1	-1	2.95	5.6	2.65	0	0	0	0	0	0	0	0
5/29/2024 10:25	14402	SSLA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/29/2024 10:25	14404	SSLA_T1	2	1	-1	2.95	5.6	2.65	0	0	0	0	0	0	0	0
5/29/2024 10:25	57401	SPAN_T1	1	1	0	0.4	0.2	-0.2	-0.8	-0.72	1	1	0	600	600	0
5/29/2024 10:25	57403	SPAN_T1	15	11	-4	0.29	0.25	-0.04	0	0	0	0	0	0	0	0
5/29/2024 10:25	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 10:25	14403	SSLA_T1	2	2	0	0.3	0.45	0.15	0.86	0.92	0	0	0	0	0	0
5/29/2024 10:25	14401	SSLA_T1	1	2	1	0.7	0.15	-0.55	0	0	0	0	0	0	0	0
5/29/2024 10:25	43301	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/29/2024 10:26	46301	ROHR_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/29/2024 10:26	46302	ROHR_T1	4	4	0	1.88	1.73	-0.15	0.15	0.17	0	0	0	0	0	0
5/29/2024 10:26	67602	WARW_T2	0	1	1	0	0	0	3.11	3.09	2	2	0	600	600	0
5/29/2024 10:27	15001	BLMO_T1	4	2	-2	0.53	0.8	0.27	0	0	0	0	0	0	0	0
5/29/2024 10:27	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 10:27	57401	SPAN_T1	1	1	0	0.4	0.2	-0.2	-1.6	-1.45	2	2	0	1200	1200	0
5/29/2024 10:27	57403	SPAN_T1	15	11	-4	0.29	0.25	-0.04	0	0	0	0	0	0	0	0
5/29/2024 10:27	44301	BEAV_T2	1	2	1	1.8	0.9	-0.9	1.67	1.66	1	1	0	600	600	0
5/29/2024 10:28	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 10:28	67602	WARW_T2	0	1	1	0	0	0	1.55	1.55	1	1	0	300	300	0
5/29/2024 10:28	67605	WARW_T1	11	12	1	0.43	0.56	0.13	0	0	0	0	0	0	0	0
5/29/2024 10:28	67603	WARW_T1	0	2	2	0	0.35	0.35	0.05	0.1	0	0	0	0	0	0
5/29/2024 10:29	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 10:31	46002	BERW_T2	0	1	1	0	0.7	0.7	-1.06	-1.01	1	1	0	900	900	0
5/29/2024 10:32	52202	DEVO_T2	0	2	2	0	0.6	0.6	-0.59	-0.57	0	0	0	0	0	0
5/29/2024 10:32	41002	LAUR_T2	40	25	-15	0.29	0.23	-0.06	0.1	0.09	0	0	0	0	0	0
5/29/2024 10:32	52204	DEVO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/29/2024 10:32	41801	GOCI_T2	73	5	-68	0.3	0.34	0.04	0	0	0	0	0	0	0	0
5/29/2024 10:32	41001	LAUR_T2	65	48	-17	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
5/29/2024 10:33	11507	FREE_T2	0	0	0	0	0	0	1.26	1.17	0	0	0	0	0	0
5/29/2024 10:36	55003	NEWP_T2	1	0	-1	0.2	0	-0.2	0.04	0.07	0	0	0	0	0	0
5/29/2024 10:38	17001	RIRO_T1	0	0	0	0	0	0	0.04	0.07	0	0	0	0	0	0
5/29/2024 10:38	14801	TREI_T2	2	1	-1	0.15	0.4	0.25	0.57	0.58	0	0	0	0	0	0
5/29/2024 10:38	14802	TREI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/29/2024 10:39	58001	WCAR_T1	6	5	-1	1.02	0.92	-0.1	0	0	0	0	0	0	0	0
5/29/2024 10:39	67204	TEHI_T2	0	0	0	0	0	0	-0.25	-0.29	0	0	0	0	0	0
5/29/2024 10:39	58003	WCAR_T1	12	4	-8	0.28	0.68	0.4	0.97	1	0	0	0	0	0	0
5/29/2024 10:40	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 10:41	58003	WCAR_T1	12	4	-8	0.28	0.68	0.4	0.97	1	0	0	0	0	0	0
5/29/2024 10:41	58001	WCAR_T1	6	5	-1	1.02	0.92	-0.1	0	0	0	0	0	0	0	0
5/29/2024 10:42	29401	BELT_T1	3	8	5	0.2	0.41	0.21	0	0	2	2	0	1800	1800	0
5/29/2024 10:42	43402	BENT_T1	0	1	1	0	0.5	0.5	-0.6	-0.65	1	1	0	900	900	0
5/29/2024 10:42	14802	TREI_T2	0	1	1	0	0.3	0.3	0.56	0.55	0	0	0	0	0	0
5/29/2024 10:42	29402	BELT_T1	4	4	0	2.45	2.53	0.08	0	0	0	0	0	0	0	0
5/29/2024 10:42	14801	TREI_T2	2	1	-1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
5/29/2024 10:43	46002	BERW_T2	0	1	1	0	0.7	0.7	-1.01	-1.06	1	1	0	900	900	0
5/29/2024 10:43	29401	BELT_T1	3	8	5	0.2	0.41	0.21	0	0	4	4	0	3600	3600	0
5/29/2024 10:43	67502	WEWI_T2	2	4	2	0.9	1	0.1	0	0	0	0	0	0	0	0
5/29/2024 10:43	44301	BEAV_T2	1	2	1	1.8	0.95	-0.85	1.66	1.74	1	1	0	600	600	0
5/29/2024 10:43	29402	BELT_T1	4	4	0	2.45	2.53	0.08	0	0	0	0	0	0	0	0
5/29/2024 10:43	67503	WEWI_T2	0	1	1	0	0.1	0.1	0.01	0.12	0	0	0	0	0	0
5/29/2024 10:45	63803	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 10:45	63304	GREE_T1	0	1	1	0	0.6	0.6	-1.34	-1.37	0	0	0	0	0	0
5/29/2024 10:45	63306	GREE_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
5/29/2024 10:45	43402	BENT_T1	1	0	-1	0.5	0	-0.5	-0.6	-0.65	1	1	0	900	900	0
5/29/2024 10:45	63305	GREE_T1	0	6	6	0	0.3	0.3	0	0	0	0	0	0	0	0
5/29/2024 10:47	56802	BENV_T2	12	10	-2	0.4	0.78	0.38	-0.7	-0.54	0	0	0	0	0	0
5/29/2024 10:48	22903	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 10:48	56802	BENV_T2	12	10	-2	0.4	0.78	0.38	-0.7	-0.54	0	0	0	0	0	0
5/29/2024 10:48	29401	BELT_T1	7	4	-3	0.24	0.68	0.44	0	0	1	1	0	900	900	0
5/29/2024 10:48	22905	HARW_T1	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
5/29/2024 10:48	29402	BELT_T1	4	3	-1	2.48	3.3	0.82	0	0	0	0	0	0	0	0
5/29/2024 10:49	13303	ORVI_T1	3	3	0	0.4	0.17	-0.23	0.03	0.07	0	0	0	0	0	0
5/29/2024 10:49	64801	MONE_T2	1	4	3	0.1	0.28	0.18	0	0	0	0	0	0	0	0
5/29/2024 10:49	64802	MONE_T2	7	18	11	0.39	0.34	-0.05	0.4	0.4	0	0	0	0	0	0
5/29/2024 10:49	56802	BENV_T2	12	10	-2	0.4	0.78	0.38	-1.4	-1.08	0	0	0	0	0	0
5/29/2024 10:50	55002	NEWP_T1	7	10	3	0.59	0.53	-0.06	-0.17	-0.18	0	0	0	0	0	0
5/29/2024 10:50	55001	NEWP_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/29/2024 10:51	13704	SOHN_T2	1	1	0	0.3	0.3	0	0.17	0.05	0	0	0	0	0	0
5/29/2024 10:51	12501	MITR_T2	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
5/29/2024 10:51	64801	MONE_T2	1	4	3	0.1	0.28	0.18	0	0	0	0	0	0	0	0
5/29/2024 10:51	56803	BENV_T1	2	5	3	1	0.65	-0.35	0	0	0	0	0	0	0	0
5/29/2024 10:51	12502	MITR_T2	1	1	0	7.1	7.2	0.1	0	0	0	0	0	0	0	0
5/29/2024 10:51	65402	MARI_T1	4	3	-1	0.33	0.47	0.14	83.96	83.96	0	0	0	0	0	0
5/29/2024 10:51	64802	MONE_T2	7	18	11	0.39	0.34	-0.05	0.4	0.4	0	0	0	0	0	0
5/29/2024 10:51	56801	BENV_T1	12	6	-6	0.42	0.55	0.13	-0.15	-0.1	1	1	0	600	600	0
5/29/2024 10:51	12505	MITR_T2	0	1	1	0	0.3	0.3	1.7	1.39	0	0	0	0	0	0
5/29/2024 10:51	56802	BENV_T2	12	10	-2	0.4	0.78	0.38	-0.7	-0.54	0	0	0	0	0	0
5/29/2024 10:52	41902	REED_T1	0	0	0	0	0	0	1.19	1.17	0	0	0	0	0	0
5/29/2024 10:52	56802	BENV_T2	12	10	-2	0.4	0.78	0.38	-2.1	-1.62	0	0	0	0	0	0
5/29/2024 10:52	56801	BENV_T1	12	6	-6	0.42	0.55	0.13	-0.15	-0.1	1	1	0	600	600	0
5/29/2024 10:52	56803	BENV_T1	2	5	3	1	0.65	-0.35	0	0	0	0	0	0	0	0
5/29/2024 10:52	46302	ROHR_T1	4	4	0	1.73	1.58	-0.15	0	0	0	0	0	0	0	0
5/29/2024 10:52	58202	NEWV_T1	0	0	0	0	0	0	0.28	0.23	0	0	0	0	0	0
5/29/2024 10:52	46301	ROHR_T1	1	1	0	0.2	0.3	0.1	0.25	0.2	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/29/2024 10:53	55001	NEWP_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/29/2024 10:53	64101	REFR_T1	0	1	1	0	0.7	0.7	0.04	0.03	0	0	0	0	0	0
5/29/2024 10:53	58202	NEWV_T1	0	0	0	0	0	0	0.23	0.27	0	0	0	0	0	0
5/29/2024 10:53	55002	NEWP_T1	7	10	3	0.59	0.53	-0.06	-0.54	-0.51	0	0	0	0	0	0
5/29/2024 10:54	14404	SSLA_T1	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
5/29/2024 10:54	14401	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/29/2024 10:54	66703	STRA_T1	1	1	0	0.2	0.3	0.1	0.23	0.23	0	0	0	0	0	0
5/29/2024 10:54	14403	SSLA_T1	1	1	0	0.3	0.1	-0.2	0.89	0.94	0	0	0	0	0	0
5/29/2024 10:54	66701	STRA_T1	2	2	0	0.85	1.4	0.55	0	0	0	0	0	0	0	0
5/29/2024 10:54	14402	SSLA_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/29/2024 10:55	56802	BENV_T2	12	10	-2	0.4	0.78	0.38	-0.54	-0.54	0	0	0	0	0	0
5/29/2024 10:55	67501	WEWI_T1	2	5	3	0.75	0.86	0.11	-0.2	-0.2	0	0	0	0	0	0
5/29/2024 10:55	57003	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/29/2024 10:55	67505	WEWI_T1	1	3	2	0.3	0.43	0.13	0	0	0	0	0	0	0	0
5/29/2024 10:55	57002	WHHI_T2	0	1	1	0	3.5	3.5	-0.61	-0.6	0	0	0	0	0	0
5/29/2024 10:55	58006	WCAR_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
5/29/2024 10:55	57006	WHHI_T2	2	3	1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
5/29/2024 10:56	67501	WEWI_T1	2	5	3	0.75	0.86	0.11	-0.2	-0.2	0	0	0	0	0	0
5/29/2024 10:56	57003	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/29/2024 10:56	57006	WHHI_T2	2	3	1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
5/29/2024 10:56	14603	SWHI_T1	1	2	1	0.4	0.2	-0.2	-0.41	-0.4	0	0	0	0	0	0
5/29/2024 10:56	57002	WHHI_T2	0	1	1	0	3.5	3.5	-0.61	-0.6	0	0	0	0	0	0
5/29/2024 10:56	64101	REFR_T1	0	1	1	0	0.7	0.7	0.04	0.03	0	0	0	0	0	0
5/29/2024 10:56	67505	WEWI_T1	1	3	2	0.3	0.43	0.13	0	0	0	0	0	0	0	0
5/29/2024 10:57	15101	UPHA_T1	0	1	1	0	0.1	0.1	0.23	0.25	0	0	0	0	0	0
5/29/2024 10:57	67505	WEWI_T1	1	3	2	0.3	0.43	0.13	0	0	0	0	0	0	0	0
5/29/2024 10:57	10801	CHHI_T1	3	3	0	0.47	0.27	-0.2	-0.9	-0.81	2	2	0	1500	1500	0
5/29/2024 10:57	45902	AUBU_T1	0	0	0	0	0	0	-1.67	-1.67	4	4	0	2400	2400	0
5/29/2024 10:57	15102	UPHA_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/29/2024 10:57	67501	WEWI_T1	2	5	3	0.75	0.86	0.11	-0.2	-0.2	0	0	0	0	0	0
5/29/2024 10:58	45402	WBLO_T2	3	2	-1	0.4	0.75	0.35	-1.46	-1.45	1	1	0	900	900	0
5/29/2024 10:58	67303	WYOM_T2	0	0	0	0	0	0	0.24	0.27	0	0	0	0	0	0
5/29/2024 10:58	53501	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 10:58	53502	EVIL_T2	1	1	0	0.1	0	-0.1	0.28	0.17	2	2	0	1200	1200	0
5/29/2024 10:59	57006	WHHI_T2	2	3	1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
5/29/2024 10:59	24101	EHAZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/29/2024 10:59	57002	WHHI_T2	0	1	1	0	3.5	3.5	-0.61	-0.6	0	0	0	0	0	0
5/29/2024 10:59	24103	EHAZ_T1	0	0	0	0	0	0	-1.28	-1.24	0	0	0	0	0	0
5/29/2024 10:59	45902	AUBU_T1	0	0	0	0	0	0	-0.42	-0.42	1	1	0	600	600	0
5/29/2024 10:59	24102	EHAZ_T1	2	1	-1	1.7	1.2	-0.5	0	0	0	0	0	0	0	0
5/29/2024 10:59	24105	EHAZ_T1	4	5	1	6.55	6.28	-0.27	0	0	0	0	0	0	0	0
5/29/2024 10:59	57003	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/29/2024 10:59	58001	WCAR_T1	5	6	1	0.78	0.78	0	0	0	0	0	0	0	0	0
5/29/2024 10:59	58003	WCAR_T1	4	4	0	0.63	0.68	0.05	1	1.04	0	0	0	0	0	0
5/29/2024 10:59	58006	WCAR_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
5/29/2024 11:00	53902	HALI_T2	3	2	-1	2.1	2.95	0.85	0	0	0	0	0	0	0	0
5/29/2024 11:00	53901	HALI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/29/2024 11:00	54505	ENOL_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
5/29/2024 11:00	54504	ENOL_T2	1	1	0	0.2	0.8	0.6	-1.04	-1.03	1	1	0	600	600	0
5/29/2024 11:00	53903	HALI_T2	3	4	1	0.8	0.65	-0.15	-0.07	-0.1	0	0	0	0	0	0
5/29/2024 11:01	53902	HALI_T2	3	2	-1	2.1	2.95	0.85	0	0	0	0	0	0	0	0
5/29/2024 11:01	53901	HALI_T2	1	0	-1	0.2	0	-0.2	-0.87	-0.84	0	0	0	0	0	0
5/29/2024 11:01	53903	HALI_T2	3	4	1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
5/29/2024 11:02	53902	HALI_T2	3	2	-1	2.1	2.95	0.85	0	0	0	0	0	0	0	0
5/29/2024 11:02	56803	BENV_T1	5	2	-3	0.94	0.65	-0.29	0	0	0	0	0	0	0	0
5/29/2024 11:02	56801	BENV_T1	4	12	8	0.58	0.49	-0.09	-0.1	0.05	1	1	0	600	600	0
5/29/2024 11:02	53901	HALI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/29/2024 11:02	44502	HAMI_T2	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
5/29/2024 11:02	53903	HALI_T2	3	4	1	0.8	0.65	-0.15	-0.14	-0.2	0	0	0	0	0	0
5/29/2024 11:02	44505	HAMI_T2	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
5/29/2024 11:03	44505	HAMI_T2	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
5/29/2024 11:03	44502	HAMI_T2	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
5/29/2024 11:03	54505	ENOL_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
5/29/2024 11:03	63501	HEID_TBK1-2	1	2	1	0.4	0.3	-0.1	0.39	0.48	1	1	0	900	900	0
5/29/2024 11:03	54506	ENOL_T2	0	0	0	0	0	0	0.63	0.63	0	1	1	0	600	600
5/29/2024 11:03	54504	ENOL_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
5/29/2024 11:04	58003	WCAR_T1	4	4	0	0.65	0.63	-0.02	1	1.04	0	0	0	0	0	0
5/29/2024 11:04	12801	MICK_T1	0	0	0	0	0	0	-0.61	-0.62	1	1	0	600	600	0
5/29/2024 11:04	58001	WCAR_T1	4	6	2	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
5/29/2024 11:04	12803	MICK_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/29/2024 11:05	15703	TANN_T2	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
5/29/2024 11:05	15702	TANN_T2	2	5	3	0.35	0.52	0.17	-0.28	-0.29	0	0	0	0	0	0
5/29/2024 11:05	56803	BENV_T1	5	2	-3	0.94	0.65	-0.29	0	0	0	0	0	0	0	0
5/29/2024 11:05	56801	BENV_T1	4	12	8	0.58	0.49	-0.09	-0.2	0.1	2	2	0	1200	1200	0
5/29/2024 11:06	64802	MONE_T2	17	10	-7	0.33	0.45	0.12	0.4	0.48	0	0	0	0	0	0
5/29/2024 11:06	64801	MONE_T2	3	4	1	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
5/29/2024 11:06	56801	BENV_T1	4	12	8	0.58	0.49	-0.09	-0.1	0.05	1	1	0	600	600	0
5/29/2024 11:06	55002	NEWP_T1	7	11	4	0.56	0.59	0.03	-0.18	-0.17	0	0	0	0	0	0
5/29/2024 11:06	64903	MILL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/29/2024 11:06	55001	NEWP_T1	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
5/29/2024 11:06	64902	MILL_T2	0	0	0	0	0	0	-0.41	-0.37	1	1	0	900	900	0
5/29/2024 11:06	56802	BENV_T2	10	9	-1	0.78	0.71	-0.07	-1.08	-1.08	0	0	0	0	0	0
5/29/2024 11:06	56803	BENV_T1	5	2	-3	0.94	0.65	-0.29	0	0	0	0	0	0	0	0
5/29/2024 11:07	58402	MORO_T1	0	0	0	0	0	0	0.08	0.05	2	2	0	1500	1500	0
5/29/2024 11:07	56801	BENV_T1	4	12	8	0.58	0.49	-0.09	-0.3	0.15	3	3	0	1800	1800	0
5/29/2024 11:07	15702	TANN_T2	2	5	3	0.35	0.52	0.17	-0.28	-0.29	0	0	0	0	0	0
5/29/2024 11:07	56803	BENV_T1	5	2	-3	0.94	0.65	-0.29	-0.06	-0.06	0	0	0	0	0	0
5/29/2024 11:07	15703	TANN_T2	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
5/29/2024 11:08	58402	MORO_T1	0	0	0	0	0	0	0.1	-0.16	4	4	0	3000	3000	0
5/29/2024 11:08	56803	BENV_T1	5	2	-3	0.94	0.65	-0.29	0	0	0	0	0	0	0	0
5/29/2024 11:08	56801	BENV_T1	4	12	8	0.58	0.49	-0.09	0.05	-0.52	1	1	0	600	600	0
5/29/2024 11:10	14402	SSLA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/29/2024 11:10	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 11:10	14404	SSLA_T1	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
5/29/2024 11:10	14403	SSLA_T1	0	3	3	0	0.27	0.27	0.94	0.93	0	0	0	0	0	0
5/29/2024 11:10	67002	STHI_T2	0	0	0	0	0	0	0.88	0.85	0	0	0	0	0	0
5/29/2024 11:11	60803	BUCK_T1	0	0	0	0	0	0	-0.43	-0.4	1	1	0	600	600	0
5/29/2024 11:12	60803	BUCK_T1	0	0	0	0	0	0	-0.43	-0.4	1	1	0	600	600	0
5/29/2024 11:12	45403	WBLO_T1	0	0	0	0	0	0	0.11	0.19	3	3	0	3600	3600	0
5/29/2024 11:12	67503	WEWI_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
5/29/2024 11:12	13902	SEID_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
5/29/2024 11:12	52202	DEVO_T2	2	2	0	0.6	0.15	-0.45	-1.15	-1.14	0	0	0	0	0	0
5/29/2024 11:12	67502	WEWI_T2	4	9	5	1	0.58	-0.42	0.08	0.2	0	0	0	0	0	0
5/29/2024 11:12	13901	SEID_T1	0	1	1	0	0.1	0.1	-0.87	-0.87	1	1	0	1200	1200	0
5/29/2024 11:12	52204	DEVO_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/29/2024 11:13	67503	WEWI_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
5/29/2024 11:13	67502	WEWI_T2	4	9	5	1	0.58	-0.42	0.08	0.2	0	0	0	0	0	0
5/29/2024 11:13	60803	BUCK_T1	0	0	0	0	0	0	-0.43	-0.4	1	1	0	600	600	0
5/29/2024 11:14	11504	FREE_T1	0	0	0	0	0	0	-2.1	-2.11	2	2	0	2100	2100	0
5/29/2024 11:14	67502	WEWI_T2	4	9	5	1	0.58	-0.42	0.08	0.2	0	0	0	0	0	0
5/29/2024 11:14	60803	BUCK_T1	0	0	0	0	0	0	-0.43	-0.4	1	1	0	600	600	0
5/29/2024 11:14	67503	WEWI_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
5/29/2024 11:15	67502	WEWI_T2	6	7	1	0.68	0.7	0.02	0	0	0	0	0	0	0	0
5/29/2024 11:15	11507	FREE_T2	0	0	0	0	0	0	1.27	1.36	0	0	0	0	0	0
5/29/2024 11:15	67503	WEWI_T2	2	2	0	0.2	0.35	0.15	0.1	0.09	0	0	0	0	0	0
5/29/2024 11:16	52204	DEVO_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
5/29/2024 11:16	52202	DEVO_T2	2	2	0	0.15	0.15	0	-1.15	-1.14	0	0	0	0	0	0
5/29/2024 11:17	52403	GRPA_T2	1	1	0	0.4	0.5	0.1	0.23	0.24	0	0	0	0	0	0
5/29/2024 11:17	52402	GRPA_T2	9	26	17	0.4	0.42	0.02	-0.71	-0.76	0	0	0	0	0	0
5/29/2024 11:18	52402	GRPA_T2	9	26	17	0.4	0.42	0.02	-0.71	-0.76	0	0	0	0	0	0
5/29/2024 11:18	52403	GRPA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/29/2024 11:19	45702	LIND_T2	2	3	1	0.25	1.03	0.78	-0.42	-0.39	0	0	0	0	0	0
5/29/2024 11:20	45702	LIND_T2	2	3	1	0.25	1.03	0.78	-0.42	-0.39	0	0	0	0	0	0
5/29/2024 11:21	13303	ORVI_T1	0	0	0	0	0	0	0.1	1.52	0	0	0	0	0	0
5/29/2024 11:22	64101	REFR_T1	1	1	0	0.7	0.4	-0.3	0.03	0.01	0	0	0	0	0	0
5/29/2024 11:23	67402	WAKE_T2	0	0	0	0	0	0	0.61	0.62	1	1	0	600	600	0
5/29/2024 11:23	67401	WAKE_T2	4	3	-1	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
5/29/2024 11:23	52403	GRPA_T2	1	1	0	0.4	0.5	0.1	0.24	0.28	0	0	0	0	0	0
5/29/2024 11:23	52402	GRPA_T2	9	26	17	0.4	0.42	0.02	0	0	0	0	0	0	0	0
5/29/2024 11:23	24202	PROV_T4	0	0	0	0	0	0	-0.29	-0.29	1	1	0	1200	1200	0
5/29/2024 11:26	58006	WCAR_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
5/29/2024 11:26	67401	WAKE_T2	4	3	-1	0.33	0.23	-0.1	-0.95	-0.86	0	0	0	0	0	0
5/29/2024 11:26	59101	WALK_T2	0	0	0	0	0	0	0.01	0.09	0	0	0	0	0	0
5/29/2024 11:26	59102	WALK_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/29/2024 11:27	46004	BERW_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
5/29/2024 11:27	59102	WALK_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/29/2024 11:27	59101	WALK_T2	0	0	0	0	0	0	0.01	0.09	0	0	0	0	0	0
5/29/2024 11:27	46002	BERW_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/29/2024 11:27	45602	WOOL_T1	1	1	0	0.2	0.1	-0.1	0.69	0.7	0	0	0	0	0	0
5/29/2024 11:29	67402	WAKE_T2	0	0	0	0	0	0	0.61	0.62	1	1	0	600	600	0
5/29/2024 11:29	53502	EVIL_T2	0	0	0	0	0	0	0.2	0.05	2	2	0	1200	1200	0
5/29/2024 11:29	53501	EVIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/29/2024 11:29	67401	WAKE_T2	4	3	-1	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
5/29/2024 11:29	41502	FAIR_T2	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
5/29/2024 11:30	24105	EHAZ_T1	4	4	0	6.4	6.4	0	0	0	0	0	0	0	0	0
5/29/2024 11:30	24103	EHAZ_T1	0	0	0	0	0	0	-1.24	-1.34	0	0	0	0	0	0
5/29/2024 11:30	24101	EHAZ_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/29/2024 11:30	24104	EHAZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/29/2024 11:30	24102	EHAZ_T1	1	3	2	1.3	1	-0.3	0	0	0	0	0	0	0	0
5/29/2024 11:31	60901	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 11:31	60902	DONG_T2	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
5/29/2024 11:31	46005	BERW_T1	0	2	2	0	0.8	0.8	-1.69	-1.69	2	2	0	2100	2100	0
5/29/2024 11:31	60903	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 11:31	23901	EFMO_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
5/29/2024 11:31	23902	EFMO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 11:31	60904	DONG_T2	1	2	1	0.3	0.65	0.35	0	0	0	0	0	0	0	0
5/29/2024 11:32	23902	EFMO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 11:32	23901	EFMO_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
5/29/2024 11:33	13503	MCMI_T2	12	6	-6	0.52	0.62	0.1	-0.01	-0.01	0	0	0	0	0	0
5/29/2024 11:38	24204	PROV_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
5/29/2024 11:38	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 11:38	24201	PROV_T3	1	1	0	6.8	7.1	0.3	0.07	0.08	0	0	0	0	0	0
5/29/2024 11:38	58402	MORO_T1	0	0	0	0	0	0	-0.06	-0.06	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/29/2024 11:39	14603	SWHI_T1	5	8	3	0.32	0.46	0.14	-0.42	-0.39	0	0	0	0	0	0
5/29/2024 11:39	60101	COCA_T1	1	0	-1	0.6	0	-0.6	0.52	0.48	0	0	0	0	0	0
5/29/2024 11:39	14601	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 11:39	58401	MORO_T1	0	1	1	0	0.1	0.1	-0.43	-0.53	1	1	0	600	600	0
5/29/2024 11:40	43103	SMIL_T2	20	25	5	0.43	0.73	0.3	-0.71	-0.71	0	0	0	0	0	0
5/29/2024 11:40	67203	TEHI_T1	0	0	0	0	0	0	1.87	1.76	3	3	0	2400	2400	0
5/29/2024 11:40	67201	TEHI_T1	5	1	-4	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
5/29/2024 11:40	43104	SMIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/29/2024 11:40	43108	SMIL_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/29/2024 11:40	43105	SMIL_T2	2	7	5	0.3	0.43	0.13	0	0	0	0	0	0	0	0
5/29/2024 11:40	43102	SMIL_T2	6	6	0	0.52	0.67	0.15	0	0	0	0	0	0	0	0
5/29/2024 11:41	67803	WLAN_T1	7	4	-3	0.39	0.2	-0.19	-0.66	-0.64	0	0	0	0	0	0
5/29/2024 11:41	14603	SWHI_T1	5	8	3	0.32	0.46	0.14	-0.42	-0.39	0	0	0	0	0	0
5/29/2024 11:41	14601	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 11:41	67801	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/29/2024 11:41	67804	WLAN_T1	8	2	-6	0.34	0.45	0.11	0	0	0	0	0	0	0	0
5/29/2024 11:41	55101	WERT_T1	0	0	0	0	0	0	-0.96	-1.79	2	3	1	1500	2400	900
5/29/2024 11:42	14603	SWHI_T1	5	8	3	0.32	0.46	0.14	-0.42	-0.39	0	0	0	0	0	0
5/29/2024 11:42	45602	WOOL_T1	1	1	0	0.1	0.1	0	0.7	0.76	0	0	0	0	0	0
5/29/2024 11:42	14601	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 11:43	67801	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/29/2024 11:43	60101	COCA_T1	1	0	-1	0.6	0	-0.6	0.52	0.48	0	0	0	0	0	0
5/29/2024 11:43	67804	WLAN_T1	8	2	-6	0.34	0.45	0.11	0	0	0	0	0	0	0	0
5/29/2024 11:43	67803	WLAN_T1	7	4	-3	0.39	0.2	-0.19	-0.66	-0.64	0	0	0	0	0	0
5/29/2024 11:44	43102	SMIL_T2	6	6	0	0.52	0.67	0.15	0	0	0	0	0	0	0	0
5/29/2024 11:44	43105	SMIL_T2	2	7	5	0.3	0.43	0.13	0	0	0	0	0	0	0	0
5/29/2024 11:44	43104	SMIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/29/2024 11:44	43108	SMIL_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/29/2024 11:44	43103	SMIL_T2	20	25	5	0.43	0.73	0.3	-0.71	-0.71	0	0	0	0	0	0
5/29/2024 11:45	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 11:45	10102	ALLE_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
5/29/2024 11:46	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/29/2024 11:46	46004	BERW_T2	0	2	2	0	0.3	0.3	0.52	0.62	0	0	0	0	0	0
5/29/2024 11:46	46002	BERW_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/29/2024 11:48	64201	KINZ_T1	0	0	0	0	0	0	-0.2	-0.4	4	4	0	2100	2100	0
5/29/2024 11:48	64204	KINZ_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/29/2024 11:48	64704	LITI_T1	0	0	0	0	0	0	0.21	0.26	1	1	0	600	600	0
5/29/2024 11:49	46502	LOHA_T1	0	0	0	0	0	0	0.08	0.08	1	1	0	1200	1200	0
5/29/2024 11:49	46506	LOHA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/29/2024 11:49	46504	LOHA_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/29/2024 11:50	46504	LOHA_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/29/2024 11:50	52202	DEVO_T2	0	2	2	0	0.65	0.65	-1.16	-1.17	0	0	0	0	0	0
5/29/2024 11:50	52204	DEVO_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/29/2024 11:50	46506	LOHA_T1	1	0	-1	0.2	0	-0.2	-0.32	-0.3	0	0	0	0	0	0
5/29/2024 11:51	46504	LOHA_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/29/2024 11:51	67605	WARW_T1	11	10	-1	0.5	0.59	0.09	-0.91	-0.93	0	0	0	0	0	0
5/29/2024 11:51	46501	LOHA_T1	0	0	0	0	0	0	0.3	0.2	1	1	0	1200	1200	0
5/29/2024 11:51	46506	LOHA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/29/2024 11:51	67603	WARW_T1	2	1	-1	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
5/29/2024 11:52	67603	WARW_T1	2	1	-1	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
5/29/2024 11:52	67605	WARW_T1	11	10	-1	0.5	0.59	0.09	-0.91	-0.93	0	0	0	0	0	0
5/29/2024 11:53	65904	SAKR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/29/2024 11:53	65901	SAKR_T2	1	1	0	8.3	8	-0.3	-1.17	-1.16	2	2	0	1500	1500	0
5/29/2024 11:54	54203	PENN_T1	20	20	0	0.54	0.66	0.12	0	0	0	0	0	0	0	0
5/29/2024 11:54	54201	PENN_T1	10	21	11	0.75	0.52	-0.23	-0.66	-0.71	0	0	0	0	0	0
5/29/2024 11:54	42802	SELI_T1	0	0	0	0	0	0	-0.94	-1.02	2	2	0	1800	1800	0
5/29/2024 11:54	67602	WARW_T2	0	0	0	0	0	0	-0.05	-0.04	2	2	0	1500	1500	0
5/29/2024 11:55	67401	WAKE_T2	1	3	2	0.4	0.13	-0.27	0	0	0	0	0	0	0	0
5/29/2024 11:55	67402	WAKE_T2	0	0	0	0	0	0	0.67	0.67	1	1	0	600	600	0
5/29/2024 11:55	67602	WARW_T2	0	0	0	0	0	0	-0.05	-0.04	2	2	0	1500	1500	0
5/29/2024 11:55	60101	COCA_T1	0	2	2	0	0.35	0.35	0.48	0.53	0	0	0	0	0	0
5/29/2024 11:56	67602	WARW_T2	0	0	0	0	0	0	-0.05	-0.04	2	2	0	1500	1500	0
5/29/2024 11:56	67801	WLAN_T1	0	0	0	0	0	0	0.57	0.5	0	0	0	0	0	0
5/29/2024 11:56	67803	WLAN_T1	4	1	-3	0.2	0.1	-0.1	-0.64	-0.67	0	0	0	0	0	0
5/29/2024 11:56	67804	WLAN_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
5/29/2024 11:57	67804	WLAN_T1	2	0	-2	0.45	0	-0.45	-0.87	-0.86	0	0	0	0	0	0
5/29/2024 11:57	67803	WLAN_T1	4	1	-3	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/29/2024 11:57	67401	WAKE_T2	1	3	2	0.4	0.13	-0.27	0	0	0	0	0	0	0	0
5/29/2024 11:57	67402	WAKE_T2	0	0	0	0	0	0	0.67	0.67	1	1	0	600	600	0
5/29/2024 11:58	29401	BELT_T1	5	3	-2	0.36	0.53	0.17	0	0	1	1	0	900	900	0
5/29/2024 11:58	16501	STRO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 11:58	16504	STRO_T1	0	0	0	0	0	0	0.58	0.6	1	1	0	1200	1200	0
5/29/2024 11:58	67602	WARW_T2	0	0	0	0	0	0	-0.05	-0.04	2	2	0	1500	1500	0
5/29/2024 11:58	29402	BELT_T1	2	3	1	4.15	2.9	-1.25	0	0	0	0	0	0	0	0
5/29/2024 11:58	67803	WLAN_T1	4	1	-3	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/29/2024 11:58	67804	WLAN_T1	2	0	-2	0.45	0	-0.45	-0.87	-0.86	0	0	0	0	0	0
5/29/2024 11:59	67602	WARW_T2	0	0	0	0	0	0	-0.05	-0.04	2	2	0	1500	1500	0
5/29/2024 11:59	65401	MARI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/29/2024 11:59	65402	MARI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 12:00	29402	BELT_T1	1	3	2	8.1	2.8	-5.3	0	0	0	0	0	0	0	0
5/29/2024 12:00	29401	BELT_T1	1	2	1	1	0.3	-0.7	0	0	1	1	0	900	900	0
5/29/2024 12:01	63401	HONY_T1	0	0	0	0	0	0	0.42	0.18	1	1	0	600	600	0
5/29/2024 12:02	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 12:04	67103	SPRI_T1	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
5/29/2024 12:04	64701	LITI_T1	0	0	0	0	0	0	0.75	0.59	0	0	0	0	0	0
5/29/2024 12:05	58401	MORO_T1	0	0	0	0	0	0	-0.53	-0.52	1	1	0	600	600	0
5/29/2024 12:07	58401	MORO_T1	0	0	0	0	0	0	-0.53	-0.52	1	1	0	600	600	0
5/29/2024 12:08	13606	RICH_T2	1	1	0	7.9	7.7	-0.2	1.32	1.37	0	0	0	0	0	0
5/29/2024 12:08	67702	WERN_T2	1	0	-1	0.5	0	-0.5	0.05	0.04	0	0	0	0	0	0
5/29/2024 12:09	67201	TEHI_T1	1	4	3	0.1	0.5	0.4	0.32	0.48	2	2	0	1500	1500	0
5/29/2024 12:09	67702	WERN_T2	1	0	-1	0.5	0	-0.5	0.05	0.04	0	0	0	0	0	0
5/29/2024 12:09	67203	TEHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/29/2024 12:09	49803	UNIV_T1	0	0	0	0	0	0	-0.92	-0.89	0	0	0	0	0	0
5/29/2024 12:10	45902	AUBU_T1	0	0	0	0	0	0	-0.4	-0.34	1	1	0	600	600	0
5/29/2024 12:10	54201	PENN_T1	11	19	8	0.7	0.54	-0.16	0	0	0	0	0	0	0	0
5/29/2024 12:10	54203	PENN_T1	20	20	0	0.43	0.66	0.23	0.56	0.54	0	0	0	0	0	0
5/29/2024 12:11	65004	NEFF_T2	1	0	-1	0.3	0	-0.3	-0.37	-0.36	0	0	0	0	0	0
5/29/2024 12:11	65003	NEFF_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
5/29/2024 12:11	45902	AUBU_T1	0	0	0	0	0	0	-0.4	-0.34	1	1	0	600	600	0
5/29/2024 12:12	14605	SWHI_T1	0	0	0	0	0	0	1.62	1.61	1	1	0	1200	1200	0
5/29/2024 12:12	14601	SWHI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 12:12	45901	AUBU_T1	0	0	0	0	0	0	2.09	2.14	0	0	0	0	0	0
5/29/2024 12:12	14603	SWHI_T1	3	5	2	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
5/29/2024 12:13	67702	WERN_T2	1	0	-1	0.5	0	-0.5	0.05	0.04	0	0	0	0	0	0
5/29/2024 12:14	51604	DUKE_T2	0	3	3	0	0.47	0.47	-1.15	-1.14	1	1	0	900	900	0
5/29/2024 12:14	51603	DUKE_T1	0	0	0	0	0	0	-0.2	-0.05	0	0	0	0	0	0
5/29/2024 12:16	46002	BERW_T2	1	1	0	0.7	1	0.3	-1.28	-1.19	1	1	0	900	900	0
5/29/2024 12:16	63501	HEID_TBK1-2	1	4	3	0.5	0.3	-0.2	0.46	0.56	1	1	0	900	900	0
5/29/2024 12:16	46004	BERW_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
5/29/2024 12:17	23202	HIRU_T2	1	1	0	0.1	0.1	0	0.11	0.1	0	0	0	0	0	0
5/29/2024 12:17	56801	BENV_T1	11	3	-8	0.49	0.33	-0.16	-0.43	-0.46	1	1	0	600	600	0
5/29/2024 12:17	23203	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 12:17	56803	BENV_T1	5	2	-3	0.78	0.8	0.02	0	0	0	0	0	0	0	0
5/29/2024 12:18	53902	HALI_T2	3	4	1	1.97	1.83	-0.14	0	0	0	0	0	0	0	0
5/29/2024 12:18	41202	KENM_T2	0	0	0	0	0	0	0.91	0.86	0	0	0	0	0	0
5/29/2024 12:18	63501	HEID_TBK1-2	1	4	3	0.5	0.3	-0.2	0.46	0.56	1	1	0	900	900	0
5/29/2024 12:18	53903	HALI_T2	5	8	3	0.78	0.9	0.12	-0.05	-0.03	0	0	0	0	0	0
5/29/2024 12:18	56802	BENV_T2	8	6	-2	0.75	0.38	-0.37	-0.44	-0.46	0	0	0	0	0	0
5/29/2024 12:18	53901	HALI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 12:19	56803	BENV_T1	5	2	-3	0.78	0.8	0.02	0	0	0	0	0	0	0	0
5/29/2024 12:19	56802	BENV_T2	8	6	-2	0.75	0.38	-0.37	-0.44	-0.46	0	0	0	0	0	0
5/29/2024 12:19	56801	BENV_T1	11	3	-8	0.49	0.33	-0.16	-0.86	-0.92	2	2	0	1200	1200	0
5/29/2024 12:20	59302	MCAL_T1	0	0	0	0	0	0	-0.22	-0.21	1	1	0	600	600	0
5/29/2024 12:20	56803	BENV_T1	5	2	-3	0.78	0.8	0.02	-2.03	-0.05	0	0	0	0	0	0
5/29/2024 12:20	46002	BERW_T2	1	1	0	0.7	1	0.3	-1.28	-1.19	1	1	0	900	900	0
5/29/2024 12:20	59301	MCAL_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/29/2024 12:20	56801	BENV_T1	11	3	-8	0.49	0.33	-0.16	-0.86	-0.92	2	2	0	1200	1200	0
5/29/2024 12:20	67605	WARW_T1	10	14	4	0.5	0.44	-0.06	-0.91	-0.9	0	0	0	0	0	0
5/29/2024 12:20	46004	BERW_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
5/29/2024 12:21	56803	BENV_T1	5	2	-3	0.78	0.8	0.02	0	0	0	0	0	0	0	0
5/29/2024 12:21	56801	BENV_T1	11	3	-8	0.49	0.33	-0.16	-0.43	-0.46	1	1	0	600	600	0
5/29/2024 12:21	67605	WARW_T1	10	14	4	0.5	0.44	-0.06	-0.91	-0.9	0	0	0	0	0	0
5/29/2024 12:22	56802	BENV_T2	8	6	-2	0.75	0.38	-0.37	-0.44	-0.46	0	0	0	0	0	0
5/29/2024 12:22	56801	BENV_T1	11	3	-8	0.49	0.33	-0.16	-0.86	-0.92	2	2	0	1200	1200	0
5/29/2024 12:22	56803	BENV_T1	5	2	-3	0.78	0.8	0.02	0	0	0	0	0	0	0	0
5/29/2024 12:23	56803	BENV_T1	5	2	-3	0.78	0.8	0.02	-0.05	-0.05	0	0	0	0	0	0
5/29/2024 12:23	16402	MOPO_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
5/29/2024 12:23	56801	BENV_T1	11	3	-8	0.49	0.33	-0.16	0	0	0	0	0	0	0	0
5/29/2024 12:23	16401	MOPO_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
5/29/2024 12:25	10102	ALLE_T2	1	1	0	7.1	7	-0.1	0	0	0	0	0	0	0	0
5/29/2024 12:26	14101	TRUM_T2	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
5/29/2024 12:26	42802	SELI_T1	0	0	0	0	0	0	-0.41	-0.45	1	1	0	900	900	0
5/29/2024 12:27	14101	TRUM_T2	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
5/29/2024 12:27	42201	SHEN_T2	0	1	1	0	0.9	0.9	0.14	0.15	1	1	0	600	600	0
5/29/2024 12:28	16101	BING_T2	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
5/29/2024 12:28	29401	BELT_T1	2	1	-1	0.3	0.2	-0.1	0	0	1	1	0	900	900	0
5/29/2024 12:28	45502	DERR_T2	0	2	2	0	0.5	0.5	0.44	0.23	0	1	1	0	300	300
5/29/2024 12:28	16102	BING_T2	4	0	-4	0.35	0	-0.35	0	0	0	0	0	0	0	0
5/29/2024 12:28	45501	DERR_T2	2	2	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
5/29/2024 12:28	16103	BING_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
5/29/2024 12:28	29402	BELT_T1	3	2	-1	2.8	3.9	1.1	0	0	0	0	0	0	0	0
5/29/2024 12:30	51604	DUKE_T2	3	1	-2	0.47	0.2	-0.27	-1.14	-1.14	1	1	0	900	900	0
5/29/2024 12:31	51604	DUKE_T2	3	1	-2	0.47	0.2	-0.27	-1.14	-1.14	1	1	0	900	900	0
5/29/2024 12:32	53902	HALI_T2	4	2	-2	1.83	2.7	0.87	-0.07	-0.03	0	0	0	0	0	0
5/29/2024 12:32	53901	HALI_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
5/29/2024 12:32	53903	HALI_T2	8	5	-3	0.86	1.06	0.2	-0.03	-0.04	0	0	0	0	0	0
5/29/2024 12:33	25501	MADI_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/29/2024 12:33	41801	GOCI_T2	34	17	-17	0.26	0.55	0.29	0	0	0	0	0	0	0	0
5/29/2024 12:33	25503	MADI_T1	121	136	15	0.43	0.46	0.03	-0.92	-0.93	0	0	0	0	0	0
5/29/2024 12:33	25502	MADI_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
5/29/2024 12:34	52004	LING_T2	4	0	-4	0.43	0	-0.43	0.95	0.91	0	0	0	0	0	0
5/29/2024 12:34	58001	WCAR_T1	4	4	0	0.63	0.38	-0.25	1.02	1.01	0	0	0	0	0	0
5/29/2024 12:34	58003	WCAR_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/29/2024 12:35	52004	LING_T2	4	0	-4	0.43	0	-0.43	0.47	0.45	0	0	0	0	0	0
5/29/2024 12:36	52001	LING_T1	1	0	-1	0.4	0	-0.4	0.43	0.43	0	0	0	0	0	0
5/29/2024 12:37	46504	LOHA_T1	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
5/29/2024 12:37	64401	LAND_T1	0	0	0	0	0	0	-1.14	-1.1	1	1	0	600	600	0
5/29/2024 12:37	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
5/29/2024 12:38	67203	TEHI_T1	1	2	1	0.5	0.4	-0.1	2.36	2.42	3	3	0	2400	2400	0
5/29/2024 12:38	67201	TEHI_T1	4	0	-4	1.03	0	-1.03	0	0	0	0	0	0	0	0
5/29/2024 12:40	58402	MORO_T1	0	0	0	0	0	0	-1.01	-0.99	3	3	0	2400	2400	0
5/29/2024 12:41	13704	SCHN_T2	1	0	-1	2	0	-2	0.18	0.2	0	0	0	0	0	0
5/29/2024 12:41	13701	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 12:42	66504	SMAN_T2	0	0	0	0	0	0	0.05	0.23	0	0	0	0	0	0
5/29/2024 12:50	58402	MORO_T1	0	0	0	0	0	0	-1.01	-0.99	3	3	0	2400	2400	0
5/29/2024 12:51	64204	KINZ_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
5/29/2024 12:51	64201	KINZ_T1	0	0	0	0	0	0	-0.26	-0.01	4	4	0	2100	2100	0
5/29/2024 12:52	42802	SELI_T1	0	0	0	0	0	0	-0.45	-0.51	1	1	0	900	900	0
5/29/2024 12:54	15104	UPHA_T2	0	0	0	0	0	0	1.21	1.17	0	0	0	0	0	0
5/29/2024 12:54	15103	UPHA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/29/2024 12:59	60803	BUCK_T1	0	0	0	0	0	0	-1.04	-1.02	1	1	0	600	600	0
5/29/2024 12:59	61506	EPET_T2	0	0	0	0	0	0	-1.5	-0.44	2	1	-1	1800	900	-900
5/29/2024 12:59	61501	EPET_T2	1	1	0	6.1	5.1	-1	0	0	0	0	0	0	0	0
5/29/2024 13:01	17802	GILB_T1	0	1	1	0	0.1	0.1	0.22	0.23	0	0	0	0	0	0
5/29/2024 13:02	52402	GRPA_T2	3	5	2	0.3	0.42	0.12	0	0	0	0	0	0	0	0
5/29/2024 13:02	52403	GRPA_T2	1	1	0	0.1	0.2	0.1	0.18	0.21	0	0	0	0	0	0
5/29/2024 13:02	40101	HUNT_T2	0	0	0	0	0	0	-0.46	0	0	0	0	0	0	0
5/29/2024 13:03	64204	KINZ_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
5/29/2024 13:03	64203	KINZ_T1	0	0	0	0	0	0	0.02	0.28	3	3	0	2100	2100	0
5/29/2024 13:04	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/29/2024 13:04	40101	HUNT_T2	0	0	0	0	0	0	-0.46	0	0	0	0	0	0	0
5/29/2024 13:05	28703	HAML_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 13:05	51002	NHAR_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/29/2024 13:05	28701	HAML_T2	3	5	2	0.83	0.78	-0.05	0	0	0	0	0	0	0	0
5/29/2024 13:05	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/29/2024 13:05	51004	NHAR_T1	4	11	7	1.7	0.75	-0.95	-0.12	-0.08	0	0	0	0	0	0
5/29/2024 13:08	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 13:09	13302	ORVI_T2	1	0	-1	0.3	0	-0.3	1.85	1.61	0	0	0	0	0	0
5/29/2024 13:11	13704	SCHN_T2	0	1	1	0	0.1	0.1	0.21	0.21	0	0	0	0	0	0
5/29/2024 13:12	67803	WLAN_T1	0	1	1	0	0.1	0.1	-0.63	-0.6	0	0	0	0	0	0
5/29/2024 13:13	67505	WEWI_T1	0	1	1	0	0.1	0.1	0.26	0.29	1	1	0	900	900	0
5/29/2024 13:13	67501	WEWI_T1	4	0	-4	0.53	0	-0.53	0	0	0	0	0	0	0	0
5/29/2024 13:14	29402	BELT_T1	1	2	1	7.4	4.3	-3.1	0	0	0	0	0	0	0	0
5/29/2024 13:14	29401	BELT_T1	1	19	18	0.3	0.14	-0.16	0	0	1	1	0	900	900	0
5/29/2024 13:16	63305	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 13:16	63306	GREE_T1	0	0	0	0	0	0	-1.74	-1.79	1	1	0	900	900	0
5/29/2024 13:16	29402	BELT_T1	2	2	0	4.2	4.45	0.25	0	0	0	0	0	0	0	0
5/29/2024 13:16	29401	BELT_T1	18	33	15	0.14	0.16	0.02	0	0	1	1	0	900	900	0
5/29/2024 13:18	41205	KENM_T2	0	0	0	0	0	0	-0.63	-0.63	1	1	0	600	600	0
5/29/2024 13:18	62102	ELAN_T1	0	0	0	0	0	0	1	1.07	0	0	0	0	0	0
5/29/2024 13:18	62105	ELAN_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/29/2024 13:25	41902	REED_T1	1	0	-1	0.5	0	-0.5	1.18	1.22	0	0	0	0	0	0
5/29/2024 13:25	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 13:25	10102	ALLE_T2	1	1	0	7.2	7	-0.2	0	0	0	0	0	0	0	0
5/29/2024 13:25	10203	ALLE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 13:27	46302	ROHR_T1	4	6	2	1.28	0.97	-0.31	0.18	0.2	0	0	0	0	0	0
5/29/2024 13:28	60101	COCA_T1	0	1	1	0	0.3	0.3	0.65	0.6	0	0	0	0	0	0
5/29/2024 13:29	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 13:29	60104	COCA_T2	4	4	0	0.5	0.58	0.08	0	0	0	0	0	0	0	0
5/29/2024 13:29	60105	COCA_T2	0	0	0	0	0	0	-0.49	-0.4	1	1	0	600	600	0
5/29/2024 13:29	67805	WLAN_T1	0	0	0	0	0	0	-0.6	-0.66	0	0	0	0	0	0
5/29/2024 13:29	67803	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 13:29	61501	EPET_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
5/29/2024 13:29	61504	EPET_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
5/29/2024 13:29	41602	CLEV_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/29/2024 13:31	63804	HEMP_T1	1	1	0	6.3	6.6	0.3	-0.22	-0.26	0	0	0	0	0	0
5/29/2024 13:31	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 13:31	63803	HEMP_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
5/29/2024 13:31	63801	HEMP_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
5/29/2024 13:32	63601	LETO_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/29/2024 13:32	62605	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/29/2024 13:32	62607	ENGL_T1	0	0	0	0	0	0	-0.78	-0.77	1	1	0	300	300	0
5/29/2024 13:32	63602	LETO_T1	1	1	0	0.1	0.4	0.3	0.12	0.1	0	0	0	0	0	0
5/29/2024 13:33	63602	LETO_T1	1	1	0	0.1	0.4	0.3	0.12	0.1	0	0	0	0	0	0
5/29/2024 13:33	63601	LETO_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/29/2024 13:34	63802	HEMP_T1	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
5/29/2024 13:34	63801	HEMP_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
5/29/2024 13:34	40101	HUNT_T2	0	0	0	0	0	0	0	-0.37	0	0	0	0	0	0
5/29/2024 13:34	63804	HEMP_T1	1	1	0	6.3	6.6	0.3	-0.22	-0.26	0	0	0	0	0	0
5/29/2024 13:34	63803	HEMP_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
5/29/2024 13:36	40101	HUNT_T2	0	0	0	0	0	0	0	-0.37	0	0	0	0	0	0
5/29/2024 13:37	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 13:40	16301	ALPA_T1	0	4	4	0	0.8	0.8	0.07	0.12	0	0	0	0	0	0
5/29/2024 13:42	10102	ALLE_T2	1	1	0	7.2	7	-0.2	0	0	0	0	0	0	0	0
5/29/2024 13:42	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 13:42	10203	ALLE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 13:46	40101	HUNT_T2	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
5/29/2024 13:47	24702	FLND_T2	2	3	1	1	0.37	-0.63	0.58	0.35	2	2	0	2400	2400	0
5/29/2024 13:49	10901	COOP_T2	0	0	0	0	0	0	0.29	0.37	1	1	0	1200	1200	0
5/29/2024 13:50	26803	JAFR_T1	1	2	1	0.7	0.9	0.2	-0.33	-0.36	1	1	0	900	900	0
5/29/2024 13:50	28403	HART_T2	0	0	0	0	0	0	-0.7	-0.71	1	1	0	900	900	0
5/29/2024 13:51	27603	PIRI_T2	0	0	0	0	0	0	-1.03	-0.96	2	2	0	1800	1800	0
5/29/2024 13:51	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
5/29/2024 13:54	64101	REFR_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
5/29/2024 13:54	59101	WALK_T2	0	0	0	0	0	0	-0.08	0.15	0	0	0	0	0	0
5/29/2024 13:55	64101	REFR_T1	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
5/29/2024 13:56	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 13:56	10105	ALLE_T3	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/29/2024 13:56	64101	REFR_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
5/29/2024 13:56	10205	ALLE_T3	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/29/2024 13:57	64101	REFR_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
5/29/2024 13:58	29402	BELT_T1	2	2	0	4.45	4.1	-0.35	0	0	0	0	0	0	0	0
5/29/2024 13:58	29401	BELT_T1	33	33	0	0.16	0.24	0.08	0	0	1	1	0	900	900	0
5/29/2024 14:01	61801	EELI_T2	0	0	0	0	0	0	0.2	0.34	0	0	0	0	0	0
5/29/2024 14:02	52401	GRPA_T2	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
5/29/2024 14:02	52402	GRPA_T2	4	21	17	0.45	0.31	-0.14	0	0	0	0	0	0	0	0
5/29/2024 14:02	52403	GRPA_T2	5	9	4	0.44	0.49	0.05	0.22	0.25	0	0	0	0	0	0
5/29/2024 14:03	24702	FLND_T2	3	1	-2	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
5/29/2024 14:03	24701	FLND_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
5/29/2024 14:07	58302	NOTT_T1	0	2	2	0	0.25	0.25	-0.41	-0.36	1	1	0	1200	1200	0
5/29/2024 14:08	58402	MORO_T1	2	3	1	0.65	0.57	-0.08	-0.89	-0.88	3	3	0	2400	2400	0
5/29/2024 14:09	14205	EALL_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
5/29/2024 14:09	14204	EALL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 14:09	60301	TWVA_T2	0	0	0	0	0	0	-4.69	-4.68	3	3	0	2700	2700	0
5/29/2024 14:10	17401	FOHI_T1	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
5/29/2024 14:13	60803	BUCK_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 14:13	58001	WCAR_T1	4	5	1	0.4	0.64	0.24	0	0	0	0	0	0	0	0
5/29/2024 14:13	60801	BUCK_T1	0	2	2	0	0.2	0.2	-0.4	-0.38	1	1	0	600	600	0
5/29/2024 14:13	58003	WCAR_T1	1	3	2	0.8	0.77	-0.03	0.96	0.98	0	0	0	0	0	0
5/29/2024 14:15	17401	FOHI_T1	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
5/29/2024 14:16	26401	INOR_T1	1	1	0	8	8.1	0.1	1.2	1.21	0	0	0	0	0	0
5/29/2024 14:19	40201	BEGA_T2	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
5/29/2024 14:20	65501	MOJO_T1	0	0	0	0	0	0	-0.78	-0.77	1	1	0	900	900	0
5/29/2024 14:21	13904	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 14:21	13905	SEID_T1	2	1	-1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
5/29/2024 14:21	13901	SEID_T1	1	1	0	0.3	0.1	-0.2	-0.77	-0.75	1	1	0	1200	1200	0
5/29/2024 14:21	13902	SEID_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/29/2024 14:22	13503	MCMI_T2	5	15	10	0.52	0.53	0.01	-0.01	-0.01	0	0	0	0	0	0
5/29/2024 14:25	67001	STHI_T2	0	0	0	0	0	0	1.04	1.06	0	0	0	0	0	0
5/29/2024 14:29	14204	EALL_T2	3	1	-2	0.17	0.3	0.13	0.23	0.23	0	0	0	0	0	0
5/29/2024 14:29	62105	ELAN_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
5/29/2024 14:29	62102	ELAN_T1	0	0	0	0	0	0	1.08	1.13	0	0	0	0	0	0
5/29/2024 14:29	45602	WOOL_T1	1	1	0	0.1	0.1	0	0.8	0.8	0	0	0	0	0	0
5/29/2024 14:31	26401	INOR_T1	1	1	0	7.7	8.1	0.4	1.21	1.16	0	0	0	0	0	0
5/29/2024 14:31	46206	DANV_T2	8	10	2	0.36	0.43	0.07	4.94	4.82	2	2	0	2400	2400	0
5/29/2024 14:32	52402	GRPA_T2	11	24	13	0.36	0.46	0.1	-0.78	-0.84	0	0	0	0	0	0
5/29/2024 14:32	52401	GRPA_T2	3	4	1	0.27	0.35	0.08	-0.45	-0.45	0	0	0	0	0	0
5/29/2024 14:32	46206	DANV_T2	8	10	2	0.36	0.43	0.07	4.94	4.82	2	2	0	2400	2400	0
5/29/2024 14:32	52403	GRPA_T2	5	12	7	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
5/29/2024 14:32	54504	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/29/2024 14:32	11104	EGYP_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 14:32	54505	ENOL_T2	1	1	0	0.4	0.4	0	-1.17	-1.16	1	1	0	600	600	0
5/29/2024 14:32	11103	EGYP_T1	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
5/29/2024 14:33	52402	GRPA_T2	11	24	13	0.36	0.46	0.1	-0.78	-0.84	0	0	0	0	0	0
5/29/2024 14:33	52403	GRPA_T2	5	12	7	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
5/29/2024 14:33	52401	GRPA_T2	3	4	1	0.27	0.35	0.08	-0.45	-0.45	0	0	0	0	0	0
5/29/2024 14:34	62102	ELAN_T1	0	0	0	0	0	0	1.08	1.13	0	0	0	0	0	0
5/29/2024 14:34	52202	DEVO_T2	0	0	0	0	0	0	-1.18	-1.19	0	0	0	0	0	0
5/29/2024 14:34	40101	HUNT_T2	0	0	0	0	0	0	-0.34	-0.39	0	0	0	0	0	0
5/29/2024 14:37	13503	MCMI_T2	15	11	-4	0.5	0.55	0.05	-0.01	0.03	0	0	0	0	0	0
5/29/2024 14:37	66502	SMAN_T2	0	0	0	0	0	0	0.4	0.51	0	0	0	0	0	0
5/29/2024 14:37	66505	SMAN_T2	0	145	145	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 14:38	52403	GRPA_T2	5	12	7	0.32	0.31	-0.01	0.25	0.31	0	0	0	0	0	0
5/29/2024 14:38	52401	GRPA_T2	3	4	1	0.27	0.35	0.08	0	0	0	0	0	0	0	0
5/29/2024 14:38	52402	GRPA_T2	11	24	13	0.36	0.46	0.1	0	0	0	0	0	0	0	0
5/29/2024 14:38	52202	DEVO_T2	0	0	0	0	0	0	-1.19	-1.17	0	0	0	0	0	0
5/29/2024 14:39	58302	NOTT_T1	0	0	0	0	0	0	-0.35	-0.33	1	1	0	1200	1200	0
5/29/2024 14:40	27502	WEIS_T2	0	0	0	0	0	0	-0.23	-0.3	0	0	0	0	0	0
5/29/2024 14:40	27503	WEIS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/29/2024 14:43	55102	WERT_T2	0	0	0	0	0	0	-0.57	-0.56	2	2	0	1200	1200	0
5/29/2024 14:44	45602	WOOL_T1	0	3	3	0	0.27	0.27	0.8	0.83	0	0	0	0	0	0
5/29/2024 14:47	63501	HEID_TBK1-2	2	7	5	0.15	0.26	0.11	0.34	0.36	1	1	0	900	900	0
5/29/2024 14:47	12803	MICK_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
5/29/2024 14:47	12802	MICK_T1	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
5/29/2024 14:48	43402	BENT_T1	0	0	0	0	0	0	-0.69	-0.71	1	1	0	900	900	0
5/29/2024 14:50	12701	MACU_T1	1	0	-1	0.3	0	-0.3	0.23	0.27	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/29/2024 14:52	56802	BENV_T2	154	142	-12	0.26	0.23	-0.03	-1.25	-1.2	0	0	0	0	0	0
5/29/2024 14:57	67503	WEWI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 14:57	67502	WEWI_T2	1	1	0	0.8	1.3	0.5	-0.93	-1	1	1	0	900	900	0
5/29/2024 15:02	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.37	2	2	0	1800	1800	0
5/29/2024 15:03	13606	RICH_T2	1	1	0	7.8	7.4	-0.4	1.26	1.09	0	0	0	0	0	0
5/29/2024 15:07	13503	MCMI_T2	10	3	-7	0.53	0.67	0.14	0.04	-0.01	0	0	0	0	0	0
5/29/2024 15:11	51306	WIND_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/29/2024 15:11	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 15:13	51304	WIND_T2	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
5/29/2024 15:13	12701	MACU_T1	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
5/29/2024 15:13	51306	WIND_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/29/2024 15:13	46302	ROHR_T1	4	4	0	1.68	1.88	0.2	0.17	0.19	0	0	0	0	0	0
5/29/2024 15:15	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/29/2024 15:15	61304	EARL_T1	0	0	0	0	0	0	-0.26	-0.22	1	1	0	600	600	0
5/29/2024 15:16	52202	DEVO_T2	2	0	-2	0.35	0	-0.35	-1.12	-1.13	0	0	0	0	0	0
5/29/2024 15:17	63804	HEMP_T1	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
5/29/2024 15:17	56802	BENV_T2	44	121	77	0.31	0.22	-0.09	-1.19	-1.17	0	0	0	0	0	0
5/29/2024 15:17	63802	HEMP_T1	0	0	0	0	0	0	0.4	0.44	0	0	0	0	0	0
5/29/2024 15:17	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 15:18	52202	DEVO_T2	2	0	-2	0.35	0	-0.35	-1.12	-1.13	0	0	0	0	0	0
5/29/2024 15:19	56802	BENV_T2	44	121	77	0.31	0.22	-0.09	-4.76	-4.68	0	0	0	0	0	0
5/29/2024 15:19	64401	LAND_T1	0	0	0	0	0	0	-1.11	-1.14	1	1	0	600	600	0
5/29/2024 15:21	56802	BENV_T2	44	121	77	0.31	0.22	-0.09	-1.19	-1.17	0	0	0	0	0	0
5/29/2024 15:22	56802	BENV_T2	44	121	77	0.31	0.22	-0.09	-1.19	-1.17	0	0	0	0	0	0
5/29/2024 15:23	56802	BENV_T2	44	121	77	0.31	0.22	-0.09	-3.51	-3.54	0	0	0	0	0	0
5/29/2024 15:23	12505	MITR_T2	1	0	-1	1	0	-1	1.54	1.38	0	0	0	0	0	0
5/29/2024 15:23	12502	MITR_T2	1	1	0	7	6.9	-0.1	0	0	0	0	0	0	0	0
5/29/2024 15:23	61702	ELIZ_T2	0	0	0	0	0	0	-1.73	-1.72	2	2	0	1500	1500	0
5/29/2024 15:24	52202	DEVO_T2	2	0	-2	0.35	0	-0.35	-1.13	-1.16	0	0	0	0	0	0
5/29/2024 15:27	11104	EGYP_T1	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
5/29/2024 15:27	11103	EGYP_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
5/29/2024 15:27	67602	WARW_T2	0	0	0	0	0	0	0.12	0.17	2	2	0	1500	1500	0
5/29/2024 15:27	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 15:27	61505	EPET_T1	0	0	0	0	0	0	0.8	0.78	0	0	0	0	0	0
5/29/2024 15:27	61502	EPET_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 15:28	52202	DEVO_T2	2	0	-2	0.35	0	-0.35	-1.13	-1.16	0	0	0	0	0	0
5/29/2024 15:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 15:31	63303	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 15:31	63302	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 15:31	63306	GREE_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
5/29/2024 15:31	63305	GREE_T1	1	8	7	0.3	0.36	0.06	-1.76	-1.76	1	1	0	900	900	0
5/29/2024 15:32	63303	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 15:32	63306	GREE_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
5/29/2024 15:32	63302	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 15:32	63305	GREE_T1	1	8	7	0.3	0.36	0.06	-1.76	-1.76	1	1	0	900	900	0
5/29/2024 15:34	64802	MONE_T2	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
5/29/2024 15:35	41902	REED_T1	0	0	0	0	0	0	1.2	1.17	0	0	0	0	0	0
5/29/2024 15:35	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 15:36	67804	WLAN_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/29/2024 15:36	67803	WLAN_T1	0	0	0	0	0	0	-0.57	-0.49	0	0	0	0	0	0
5/29/2024 15:37	47402	PENS_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/29/2024 15:37	47401	PENS_T1	0	3	3	0	0.47	0.47	1.1	1.18	0	0	0	0	0	0
5/29/2024 15:37	47403	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 15:38	47402	PENS_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/29/2024 15:38	54501	ENOL_T2	0	0	0	0	0	0	-0.38	-0.34	1	1	0	600	600	0
5/29/2024 15:38	47403	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 15:38	47401	PENS_T1	0	3	3	0	0.47	0.47	2.2	2.36	0	0	0	0	0	0
5/29/2024 15:38	54505	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/29/2024 15:39	12802	MICK_T1	0	0	0	0	0	0	-0.84	-0.81	0	0	0	0	0	0
5/29/2024 15:39	12803	MICK_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/29/2024 15:39	52202	DEVO_T2	0	0	0	0	0	0	-1.16	-1.16	0	0	0	0	0	0
5/29/2024 15:40	47401	PENS_T1	0	3	3	0	0.47	0.47	1.18	1.17	0	0	0	0	0	0
5/29/2024 15:40	24204	PROV_T3	1	1	0	6.3	5.8	-0.5	0	0	0	0	0	0	0	0
5/29/2024 15:40	24201	PROV_T3	1	7	6	7.3	1.1	-6.2	-1.13	-1.13	1	1	0	1200	1200	0
5/29/2024 15:40	47403	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 15:40	47402	PENS_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/29/2024 15:42	26402	INOR_T1	0	1	1	0	0.2	0.2	-0.79	-0.82	1	1	0	600	600	0
5/29/2024 15:42	26401	INOR_T1	3	1	-2	3	7.1	4.1	0	0	0	0	0	0	0	0
5/29/2024 15:43	29401	BELT_T1	5	2	-3	0.1	0.1	0	0	0	1	1	0	900	900	0
5/29/2024 15:43	29402	BELT_T1	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
5/29/2024 15:43	67804	WLAN_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/29/2024 15:43	67803	WLAN_T1	0	0	0	0	0	0	-0.49	-0.54	0	0	0	0	0	0
5/29/2024 15:47	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/29/2024 15:50	53803	MBRG_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/29/2024 15:50	53801	MBRG_T2	3	2	-1	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
5/29/2024 15:50	53802	MBRG_T2	0	0	0	0	0	0	1.29	1.36	0	0	0	0	0	0
5/29/2024 15:53	11104	EGYP_T1	5	5	0	0.76	0.68	-0.08	0	0	0	0	0	0	0	0
5/29/2024 15:53	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 15:53	11103	EGYP_T1	0	0	0	0	0	0	0.46	0.49	0	0	0	0	0	0
5/29/2024 15:54	40601	PIGR_T1	0	3	3	0	0.17	0.17	-0.53	-0.53	0	0	0	0	0	0
5/29/2024 15:55	47403	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/29/2024 15:55	47402	PENS_T1	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
5/29/2024 15:55	47401	PENS_T1	1	3	2	0.1	0.57	0.47	1.17	1.16	0	0	0	0	0	0
5/29/2024 15:58	24702	FLND_T2	0	0	0	0	0	0	0.93	0.56	1	1	0	1200	1200	0
5/29/2024 15:58	24701	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 16:00	62607	ENGL_T1	0	0	0	0	0	0	-0.76	-0.69	1	1	0	300	300	0
5/29/2024 16:00	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/29/2024 16:01	52402	GRPA_T2	3	3	0	0.87	1.07	0.2	0	0	0	0	0	0	0	0
5/29/2024 16:01	52403	GRPA_T2	5	2	-3	1.08	0	-1.08	0.29	0.33	0	0	0	0	0	0
5/29/2024 16:01	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 16:01	52401	GRPA_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/29/2024 16:09	41903	REED_T1	0	1	1	0	0	0	0.24	0.1	2	2	0	2400	2400	0
5/29/2024 16:09	66505	SMAN_T2	18	89	71	0.21	0.67	0.46	0	0	0	0	0	0	0	0
5/29/2024 16:09	66503	SMAN_T2	0	0	0	0	0	0	0.74	0.71	0	0	0	0	0	0
5/29/2024 16:09	41901	REED_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
5/29/2024 16:10	57403	SPAN_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/29/2024 16:10	57401	SPAN_T1	0	0	0	0	0	0	-0.26	-0.5	1	1	0	600	600	0
5/29/2024 16:14	13902	SEID_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/29/2024 16:14	29401	BELT_T1	2	25	23	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/29/2024 16:14	29402	BELT_T1	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
5/29/2024 16:14	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 16:14	13905	SEID_T1	0	1	1	0	0	0	0.7	0.68	0	0	0	0	0	0
5/29/2024 16:15	14201	EALL_T1	0	0	0	0	0	0	1.04	0.93	0	0	0	0	0	0
5/29/2024 16:15	56803	BENV_T1	1	2	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/29/2024 16:15	56801	BENV_T1	5	7	2	0.24	0.31	0.07	-0.58	-0.62	1	1	0	600	600	0
5/29/2024 16:16	23201	HIRU_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/29/2024 16:16	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
5/29/2024 16:16	62604	ENGL_T1	0	0	0	0	0	0	-1.2	-1.16	1	1	0	600	600	0
5/29/2024 16:21	23201	HIRU_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/29/2024 16:21	64902	MILL_T2	0	0	0	0	0	0	-0.52	-0.48	2	2	0	1800	1800	0
5/29/2024 16:21	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
5/29/2024 16:22	46504	LOHA_T1	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
5/29/2024 16:22	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
5/29/2024 16:24	40603	PIGR_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
5/29/2024 16:24	40601	PIGR_T1	0	5	5	0	0.24	0.24	-0.54	-0.69	0	0	0	0	0	0
5/29/2024 16:25	40601	PIGR_T1	0	5	5	0	0.24	0.24	-0.54	-0.69	0	0	0	0	0	0
5/29/2024 16:25	40603	PIGR_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
5/29/2024 16:26	67805	WLAN_T1	0	0	0	0	0	0	-1.06	-1.05	0	0	0	0	0	0
5/29/2024 16:26	67804	WLAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/29/2024 16:26	45602	WOOL_T1	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
5/29/2024 16:27	67801	WLAN_T1	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
5/29/2024 16:27	67204	TEHI_T2	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
5/29/2024 16:27	67804	WLAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/29/2024 16:30	43504	WWIL_T1	17	17	0	0.47	0.36	-0.11	0.67	0.71	0	0	0	0	0	0
5/29/2024 16:30	43506	WWIL_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
5/29/2024 16:30	43505	WWIL_T1	1	1	0	2.7	2.6	-0.1	0	0	0	0	0	0	0	0
5/29/2024 16:30	20401	ASHF_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
5/29/2024 16:30	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	0.47	0.33	0	0	0	0	0	0
5/29/2024 16:30	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/29/2024 16:37	14802	TREI_T2	0	1	1	0	0.7	0.7	0.68	0.67	0	0	0	0	0	0
5/29/2024 16:39	40602	PIGR_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	600	600	0
5/29/2024 16:39	40601	PIGR_T1	5	2	-3	0.24	0.15	-0.09	0	0	0	0	0	0	0	0
5/29/2024 16:39	40603	PIGR_T1	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
5/29/2024 16:42	50103	HARR_T3	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
5/29/2024 16:42	50105	HARR_T3	6	6	0	5.78	5.48	-0.3	0	0	0	0	0	0	0	0
5/29/2024 16:42	50201	HARR_T3	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/29/2024 16:42	50107	HARR_T3	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
5/29/2024 16:44	29401	BELT_T1	19	26	7	0.12	0.14	0.02	0	0	1	1	0	900	900	0
5/29/2024 16:44	29402	BELT_T1	1	1	0	7.6	7.6	0	0	0	0	0	0	0	0	0
5/29/2024 16:47	62607	ENGL_T1	0	0	0	0	0	0	-0.68	-0.71	1	1	0	300	300	0
5/29/2024 16:51	60501	NMAN_T2	3	3	0	4.57	4.73	0.16	0	0	0	0	0	0	0	0
5/29/2024 16:51	60502	NMAN_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
5/29/2024 16:52	46506	LOHA_T1	0	1	1	0	0.7	0.7	-0.35	-0.38	0	0	0	0	0	0
5/29/2024 16:52	46504	LOHA_T1	2	2	0	0.55	0.25	-0.3	0	0	0	0	0	0	0	0
5/29/2024 16:54	44201	POIN_T1	8	28	20	0.1	0.11	0.01	-2.12	-2.2	2	2	0	2100	2100	0
5/29/2024 16:55	60101	COCA_T1	0	0	0	0	0	0	0.6	0.57	0	0	0	0	0	0
5/29/2024 16:55	14404	SSLA_T1	1	2	1	4.6	2.5	-2.1	0.1	0.1	0	0	0	0	0	0
5/29/2024 16:56	29402	BELT_T1	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
5/29/2024 16:56	42901	MIDD_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/29/2024 16:56	42902	MIDD_T2	13	23	10	0.18	0.24	0.06	-0.46	-0.48	0	0	0	0	0	0
5/29/2024 16:56	29401	BELT_T1	6	28	22	0.1	0.16	0.06	0	0	0	0	0	0	0	0
5/29/2024 16:56	44201	POIN_T1	8	28	20	0.1	0.11	0.01	-2.12	-2.2	2	2	0	2100	2100	0
5/29/2024 16:56	42903	MIDD_T2	2	2	0	2.25	2.25	0	0	0	0	0	0	0	0	0
5/29/2024 16:57	14404	SSLA_T1	1	2	1	4.6	2.5	-2.1	0.1	0.1	0	0	0	0	0	0
5/29/2024 16:58	47403	PENS_T1	3	1	-2	0.33	0.1	-0.23	0	0	0	0	0	0	0	0
5/29/2024 16:58	47401	PENS_T1	1	0	-1	0.1	0	-0.1	1.14	1.2	0	0	0	0	0	0
5/29/2024 16:59	29402	BELT_T1	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
5/29/2024 16:59	29401	BELT_T1	6	28	22	0.1	0.16	0.06	0	0	1	1	0	900	900	0
5/29/2024 17:03	42201	SHEN_T2	0	0	0	0	0	0	0.18	0.1	1	1	0	600	600	0
5/29/2024 17:04	10805	CHHI_T2	1	1	0	9	9	0	-0.72	-0.85	1	1	0	600	600	0
5/29/2024 17:04	54601	SUMM_T2	1	1	0	0.2	0.4	0.2	-1.71	-1.72	2	2	0	2100	2100	0
5/29/2024 17:04	51604	DUKE_T2	4	10	6	0.15	0.14	-0.01	-1.12	-1.15	1	1	0	900	900	0
5/29/2024 17:13	44201	POIN_T1	11	40	29	0.1	0.11	0.01	-2.2	-2.14	2	2	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/29/2024 17:13	67805	WLAN_T1	0	3	3	0	0.1	0.1	-1.15	-1.19	0	0	0	0	0	0
5/29/2024 17:17	60104	COCA_T2	4	4	0	0.3	0.65	0.35	0	0	0	0	0	0	0	0
5/29/2024 17:17	60103	COCA_T2	0	0	0	0	0	0	-0.21	-0.26	2	2	0	2100	2100	0
5/29/2024 17:20	20603	GRWO_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
5/29/2024 17:20	14203	EALL_T1	0	0	0	0	0	0	0.11	0.09	1	1	0	1200	1200	0
5/29/2024 17:24	60801	BUCK_T1	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
5/29/2024 17:25	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 17:25	67803	WLAN_T1	0	0	0	0	0	0	-0.57	-0.63	0	0	0	0	0	0
5/29/2024 17:25	40302	TAMA_T3	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
5/29/2024 17:25	67805	WLAN_T1	0	49	49	0	0.11	0.11	0	0	0	0	0	0	0	0
5/29/2024 17:26	54203	PENN_T1	18	28	10	1.04	0.8	-0.24	0.39	0.38	0	0	0	0	0	0
5/29/2024 17:26	54201	PENN_T1	56	77	21	0.35	0.38	0.03	0	0	0	0	0	0	0	0
5/29/2024 17:28	29402	BELT_T1	1	1	0	7.3	7.4	0.1	0	0	0	0	0	0	0	0
5/29/2024 17:28	29401	BELT_T1	26	21	-5	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
5/29/2024 17:29	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 17:29	10105	ALLE_T3	9	2	-7	0.52	0	-0.52	0	0	0	0	0	0	0	0
5/29/2024 17:29	62604	ENGL_T1	0	0	0	0	0	0	-0.77	0.42	0	0	0	0	0	0
5/29/2024 17:29	10205	ALLE_T3	1	2	1	3.7	0.1	-3.6	0	0	0	0	0	0	0	0
5/29/2024 17:31	57004	WHHI_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
5/29/2024 17:31	57006	WHHI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/29/2024 17:31	29402	BELT_T1	1	1	0	7.2	7.4	0.2	0	0	0	0	0	0	0	0
5/29/2024 17:31	29401	BELT_T1	2	21	19	0.1	0.12	0.02	0	0	1	1	0	900	900	0
5/29/2024 17:33	45501	DERR_T2	0	0	0	0	0	0	0.47	0.41	2	2	0	1800	1800	0
5/29/2024 17:33	16102	BING_T2	0	1	1	0	0.1	0.1	-0.93	-0.96	1	1	0	1200	1200	0
5/29/2024 17:34	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
5/29/2024 17:34	63801	HEMP_T1	0	0	0	0	0	0	-0.83	-0.76	1	1	0	900	900	0
5/29/2024 17:35	63501	HEID_TBK1-2	2	2	0	0.3	0.85	0.55	-0.06	-0.11	1	1	0	900	900	0
5/29/2024 17:36	50506	MECH_T1	0	0	0	0	0	0	0.29	0.23	0	0	0	0	0	0
5/29/2024 17:36	50501	MECH_T1	4	4	0	0.88	1.05	0.17	0	0	0	0	0	0	0	0
5/29/2024 17:36	50502	MECH_T1	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
5/29/2024 17:37	50502	MECH_T1	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
5/29/2024 17:37	50501	MECH_T1	4	4	0	0.88	1.05	0.17	-0.47	-0.61	0	0	0	0	0	0
5/29/2024 17:37	47401	PENS_T1	0	0	0	0	0	0	1.17	1.13	0	0	0	0	0	0
5/29/2024 17:37	52501	PROG_T1	0	0	0	0	0	0	0.71	0.78	1	1	0	300	300	0
5/29/2024 17:38	50105	HARR_T3	6	6	0	5.32	5.27	-0.05	0	0	0	0	0	0	0	0
5/29/2024 17:38	50107	HARR_T3	1	0	-1	5	0	-5	0.6	0.61	0	0	0	0	0	0
5/29/2024 17:38	50502	MECH_T1	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
5/29/2024 17:38	50506	MECH_T1	0	0	0	0	0	0	0.23	0.13	0	0	0	0	0	0
5/29/2024 17:38	50501	MECH_T1	4	4	0	0.88	1.05	0.17	0	0	0	0	0	0	0	0
5/29/2024 17:38	52501	PROG_T1	0	0	0	0	0	0	0.78	0.68	1	1	0	300	300	0
5/29/2024 17:38	50201	HARR_T3	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 17:38	50103	HARR_T3	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/29/2024 17:40	56801	BENV_T1	2	7	5	0.25	0.39	0.14	-1.52	-1.54	2	2	0	1200	1200	0
5/29/2024 17:40	56803	BENV_T1	2	5	3	0.1	0.28	0.18	0	0	0	0	0	0	0	0
5/29/2024 17:40	57401	SPAN_T1	0	0	0	0	0	0	-0.4	-0.5	1	1	0	600	600	0
5/29/2024 17:40	48302	ORWI_T2	2	2	0	0.35	0.85	0.5	0	0	0	0	0	0	0	0
5/29/2024 17:40	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 17:40	57403	SPAN_T1	8	8	0	0.16	0.18	0.02	0	0	0	0	0	0	0	0
5/29/2024 17:41	52501	PROG_T1	0	0	0	0	0	0	0.78	0.68	1	1	0	300	300	0
5/29/2024 17:41	46206	DANV_T2	4	7	3	0.18	0.3	0.12	2.71	2.7	1	1	0	1200	1200	0
5/29/2024 17:41	41204	KENM_T2	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
5/29/2024 17:41	41202	KENM_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/29/2024 17:41	44201	POIN_T1	25	47	22	0.11	0.15	0.04	-2.17	-2.12	2	2	0	2100	2100	0
5/29/2024 17:42	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 17:43	15103	UPHA_T2	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
5/29/2024 17:44	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 17:47	29402	BELT_T1	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
5/29/2024 17:47	29401	BELT_T1	21	25	4	0.12	0.14	0.02	0	0	1	1	0	900	900	0
5/29/2024 17:48	42001	MNVL_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
5/29/2024 17:48	42002	MNVL_T2	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
5/29/2024 17:50	42002	MNVL_T2	1	1	0	1.4	1.2	-0.2	0.22	0.23	0	0	0	0	0	0
5/29/2024 17:51	65601	QVIL_T2	0	0	0	0	0	0	-0.85	-0.74	1	1	0	900	900	0
5/29/2024 17:53	59201	THOM_T1	10	17	7	0.16	0.29	0.13	0	0	0	0	0	0	0	0
5/29/2024 17:53	59202	THOM_T1	61	203	142	0.21	0.25	0.04	0	0	0	0	0	0	0	0
5/29/2024 17:56	59201	THOM_T1	10	17	7	0.16	0.29	0.13	0	0	0	0	0	0	0	0
5/29/2024 17:56	59202	THOM_T1	61	203	142	0.21	0.25	0.04	0	0	0	0	0	0	0	0
5/29/2024 17:58	59202	THOM_T1	61	203	142	0.21	0.25	0.04	0	0	0	0	0	0	0	0
5/29/2024 17:58	59201	THOM_T1	10	17	7	0.16	0.29	0.13	0	0	0	0	0	0	0	0
5/29/2024 18:03	67801	WLAN_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
5/29/2024 18:03	67805	WLAN_T1	96	234	138	0.13	0.15	0.02	0	0	0	0	0	0	0	0
5/29/2024 18:03	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 18:08	42002	MNVL_T2	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
5/29/2024 18:08	42001	MNVL_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
5/29/2024 18:10	63306	GREE_T1	0	0	0	0	0	0	-1.96	-1.98	1	1	0	900	900	0
5/29/2024 18:10	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 18:10	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 18:11	24901	WHHA_T1	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
5/29/2024 18:11	58003	WCAR_T1	7	60	53	0.34	0.34	0	0.74	0.7	0	0	0	0	0	0
5/29/2024 18:11	58001	WCAR_T1	4	6	2	1.13	1.18	0.05	0	0	0	0	0	0	0	0
5/29/2024 18:12	58001	WCAR_T1	4	6	2	1.13	1.18	0.05	0	0	0	0	0	0	0	0
5/29/2024 18:12	58003	WCAR_T1	7	60	53	0.34	0.34	0	0.74	0.7	0	0	0	0	0	0
5/29/2024 18:15	58006	WCAR_T2	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
5/29/2024 18:16	46801	HEPB_T2	2	2	0	0.6	0.5	-0.1	0.7	0.71	0	0	0	0	0	0
5/29/2024 18:23	59101	WALK_T2	30	57	27	0.22	0.47	0.25	-0.55	-0.5	0	0	0	0	0	0
5/29/2024 18:23	59102	WALK_T2	7	12	5	0.14	0.18	0.04	0	0	0	0	0	0	0	0
5/29/2024 18:25	43703	WILL_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 18:25	57006	WHHI_T2	6	1	-5	0.22	0.8	0.58	1.07	1.08	0	0	0	0	0	0
5/29/2024 18:25	43705	WILL_T1	2	2	0	1.35	1.4	0.05	0	0	0	0	0	0	0	0
5/29/2024 18:25	43701	WILL_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
5/29/2024 18:25	43704	WILL_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
5/29/2024 18:26	41802	GOCI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/29/2024 18:26	41801	GOCI_T2	9	11	2	0.11	0.11	0	0	0	0	0	0	0	0	0
5/29/2024 18:27	43705	WILL_T1	2	2	0	1.35	1.4	0.05	0	0	0	0	0	0	0	0
5/29/2024 18:27	43703	WILL_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 18:27	43704	WILL_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
5/29/2024 18:27	43701	WILL_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
5/29/2024 18:28	61102	BERK_T5	0	1	1	0	0.1	0.1	0.13	-0.01	1	1	0	300	300	0
5/29/2024 18:29	20402	ASHF_T2	2	4	2	0.2	0.2	0	0	0	0	0	0	0	0	0
5/29/2024 18:29	20403	ASHF_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
5/29/2024 18:29	20401	ASHF_T2	9	7	-2	0.42	0.66	0.24	0	0	0	0	0	0	0	0
5/29/2024 18:30	43302	WATS_T2	4	4	0	0.33	0.45	0.12	0	0	0	0	0	0	0	0
5/29/2024 18:30	24105	EHAZ_T1	4	4	0	5.68	5.63	-0.05	0	0	0	0	0	0	0	0
5/29/2024 18:30	24104	EHAZ_T1	0	0	0	0	0	0	-0.95	-0.93	1	1	0	1200	1200	0
5/29/2024 18:30	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 18:31	60802	BUCK_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
5/29/2024 18:32	55105	WERT_T1	0	0	0	0	0	0	-0.21	-0.24	1	1	0	900	900	0
5/29/2024 18:42	58003	WCAR_T1	54	65	11	0.3	0.38	0.08	0.67	0.68	0	0	0	0	0	0
5/29/2024 18:42	58001	WCAR_T1	6	9	3	1.1	0.96	-0.14	0	0	0	0	0	0	0	0
5/29/2024 18:49	41202	KENM_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/29/2024 18:49	41204	KENM_T2	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
5/29/2024 18:50	66504	SMAN_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
5/29/2024 18:51	63305	GREE_T1	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
5/29/2024 18:57	67804	WLAN_T1	0	0	0	0	0	0	-0.88	-0.92	0	0	0	0	0	0
5/29/2024 18:57	67805	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 18:58	63304	GREE_T1	0	0	0	0	0	0	-1.51	-1.62	0	0	0	0	0	0
5/29/2024 19:02	65804	RTWN_T1	0	0	0	0	0	0	0.76	0.64	2	2	0	1200	1200	0
5/29/2024 19:05	46803	HEPB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 19:05	46801	HEPB_T2	2	2	0	0.4	0.45	0.05	0.72	0.72	0	0	0	0	0	0
5/29/2024 19:06	55002	NEWP_T1	5	5	0	0.56	0.6	0.04	0	0	0	0	0	0	0	0
5/29/2024 19:06	55001	NEWP_T1	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
5/29/2024 19:07	54203	PENN_T1	211	265	54	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
5/29/2024 19:07	54205	PENN_T1	165	180	15	0.22	0.28	0.06	0	0	0	0	0	0	0	0
5/29/2024 19:07	54201	PENN_T1	266	289	23	0.48	0.48	0	-0.84	-0.84	0	0	0	0	0	0
5/29/2024 19:07	65901	SAKR_T2	1	1	0	8.7	8.7	0	0	0	0	0	0	0	0	0
5/29/2024 19:07	65904	SAKR_T2	0	0	0	0	0	0	-1.77	-1.79	3	3	0	1500	1500	0
5/29/2024 19:09	55002	NEWP_T1	5	5	0	0.56	0.6	0.04	0	0	0	0	0	0	0	0
5/29/2024 19:09	55001	NEWP_T1	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
5/29/2024 19:11	14404	SSLA_T1	1	2	1	5.5	2.95	-2.55	0.04	0.09	0	0	0	0	0	0
5/29/2024 19:11	57104	SPHI_T2	0	1	1	0	0.1	0.1	-0.85	-0.87	0	0	0	0	0	0
5/29/2024 19:11	57101	SPHI_T2	6	6	0	1.13	1.32	0.19	0	0	0	0	0	0	0	0
5/29/2024 19:11	57106	SPHI_T2	3	3	0	1.27	1.57	0.3	0	0	0	0	0	0	0	0
5/29/2024 19:12	42503	ALTA_T2	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
5/29/2024 19:14	45602	WOOL_T1	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
5/29/2024 19:21	22903	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 19:21	64701	LITI_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
5/29/2024 19:21	22903	HARW_T1	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
5/29/2024 19:25	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 19:26	57401	SPAN_T1	0	0	0	0	0	0	-0.45	-0.47	1	1	0	600	600	0
5/29/2024 19:26	57403	SPAN_T1	8	13	5	0.18	0.18	0	0	0	0	0	0	0	0	0
5/29/2024 19:27	61103	BERK_T5	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
5/29/2024 19:35	52002	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 19:35	52006	LING_T2	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
5/29/2024 19:35	52004	LING_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
5/29/2024 19:39	66902	SHIL_T2	0	0	0	0	0	0	-2.72	-2.82	0	0	0	0	0	0
5/29/2024 19:43	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
5/29/2024 19:43	20401	ASHF_T2	4	3	-1	0.6	0.73	0.13	0	0	0	0	0	0	0	0
5/29/2024 19:49	65501	MOJO_T1	0	0	0	0	0	0	-1.02	-1.11	1	1	0	900	900	0
5/29/2024 19:53	64402	LAND_T2	0	0	0	0	0	0	-0.32	-0.4	1	1	0	600	600	0
5/29/2024 19:53	64404	LAND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 20:06	65502	MOJO_T2	116	0	-116	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/29/2024 20:06	65503	MOJO_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
5/29/2024 20:10	47502	NECO_T1	30	30	0	0.28	0.28	0	0.89	0.75	0	0	0	0	0	0
5/29/2024 20:13	42501	ALTA_T2	0	0	0	0	0	0	0.2	0.18	1	1	0	600	600	0
5/29/2024 20:23	57401	SPAN_T1	0	0	0	0	0	0	-0.61	-0.55	1	1	0	600	600	0
5/29/2024 20:23	57403	SPAN_T1	7	9	2	0.16	0.21	0.05	0	0	0	0	0	0	0	0
5/29/2024 20:23	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 20:23	21206	ECAR_T2	1	1	0	7.2	7.4	0.2	0.04	0	0	0	0	0	0	0
5/29/2024 20:29	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 20:29	15603	NSTR_T2	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
5/29/2024 20:29	15601	NSTR_T2	3	3	0	0.43	0.63	0.2	0	0	0	0	0	0	0	0
5/29/2024 20:30	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 20:31	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 20:32	14802	TREI_T2	0	0	0	0	0	0	0.5	0.46	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/29/2024 20:35	52202	DEVO_T2	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
5/29/2024 20:38	17002	RIRO_T2	52	46	-6	0.14	0.15	0.01	0.5	0.43	0	0	0	0	0	0
5/29/2024 20:48	67505	WEWI_T1	0	0	0	0	0	0	-0.06	-0.07	1	1	0	900	900	0
5/29/2024 20:50	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/29/2024 20:52	65402	MARI_T1	0	0	0	0	0	0	167.92	167.92	0	0	0	0	0	0
5/29/2024 20:55	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/29/2024 20:55	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
5/29/2024 20:55	15704	TANN_T1	0	0	0	0	0	0	-1.08	-1.24	0	0	0	0	0	0
5/29/2024 20:55	15702	TANN_T2	0	0	0	0	0	0	-0.32	-0.35	0	0	0	0	0	0
5/29/2024 20:55	15701	TANN_T1	1	2	1	5	5	0	0	0	0	0	0	0	0	0
5/29/2024 20:57	58202	NEWV_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
5/29/2024 20:58	26603	BROO_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
5/29/2024 20:58	66703	STRA_T1	4	7	3	0.23	0.42	0.19	-0.23	-0.23	0	0	0	0	0	0
5/29/2024 20:58	67303	WYOM_T2	0	0	0	0	0	0	-0.18	-0.09	0	0	0	0	0	0
5/29/2024 21:00	26603	BROO_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
5/29/2024 21:01	57403	SPAN_T1	16	35	19	0.21	0.3	0.09	0	0	0	0	0	0	0	0
5/29/2024 21:01	57401	SPAN_T1	0	2	2	0	0.1	0.1	-0.58	-0.61	1	1	0	600	600	0
5/29/2024 21:03	64101	REFR_T1	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
5/29/2024 21:05	56801	BENV_T1	8	8	0	0.43	0.3	-0.13	-0.31	-0.38	1	1	0	600	600	0
5/29/2024 21:06	56802	BENV_T2	44	3	-41	0.14	0.4	0.26	-0.54	-0.57	0	0	0	0	0	0
5/29/2024 21:09	56801	BENV_T1	8	8	0	0.43	0.3	-0.13	-1.52	-1.36	4	4	0	2400	2400	0
5/29/2024 21:10	56801	BENV_T1	8	8	0	0.43	0.3	-0.13	-0.38	-0.34	1	1	0	600	600	0
5/29/2024 21:10	45602	WOOL_T1	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
5/29/2024 21:20	16101	BING_T2	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
5/29/2024 21:22	13302	ORVI_T2	0	0	0	0	0	0	1.6	1.55	0	0	0	0	0	0
5/29/2024 21:22	45702	LIND_T2	1	1	0	0.7	0.6	-0.1	-0.5	-0.5	0	0	0	0	0	0
5/29/2024 21:24	45702	LIND_T2	1	1	0	0.7	0.6	-0.1	-0.5	-0.48	0	0	0	0	0	0
5/29/2024 21:24	13303	ORVI_T1	0	0	0	0	0	0	1	1	0	0	0	0	0	0
5/29/2024 21:26	17401	FOHI_T1	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
5/29/2024 21:32	13901	SEID_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	1200	1200	0
5/29/2024 21:33	14203	EALL_T1	0	0	0	0	0	0	-0.21	-0.26	1	1	0	1200	1200	0
5/29/2024 21:34	11507	FREE_T2	0	0	0	0	0	0	1.43	1.6	0	0	0	0	0	0
5/29/2024 21:34	67503	WEWI_T2	0	0	0	0	0	0	-0.04	-0.21	0	0	0	0	0	0
5/29/2024 21:34	67502	WEWI_T2	21	57	36	0.13	0.14	0.01	0	0	0	0	0	0	0	0
5/29/2024 21:35	63602	LETO_T1	0	10	10	0	0.1	0.1	-0.32	-0.21	0	0	0	0	0	0
5/29/2024 21:35	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 21:36	60803	BUCK_T1	0	6	6	0	0.17	0.17	-0.52	-0.5	1	1	0	600	600	0
5/29/2024 21:36	60801	BUCK_T1	0	11	11	0	0.11	0.11	0	0	0	0	0	0	0	0
5/29/2024 21:38	58402	MORO_T1	0	0	0	0	0	0	-0.3	-0.24	2	2	0	1500	1500	0
5/29/2024 21:38	46302	ROHR_T1	4	4	0	1.43	2	0.57	0.16	0.16	0	0	0	0	0	0
5/29/2024 21:39	67503	WEWI_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
5/29/2024 21:39	67502	WEWI_T2	21	57	36	0.13	0.14	0.01	0	0	0	0	0	0	0	0
5/29/2024 21:39	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.49	0	0	0	0	0	0
5/29/2024 21:40	16102	BING_T2	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
5/29/2024 21:40	14204	EALL_T2	0	0	0	0	0	0	-0.07	-0.15	0	0	0	0	0	0
5/29/2024 21:42	67502	WEWI_T2	21	57	36	0.13	0.14	0.01	-1.36	-0.4	1	0	-1	900	0	-900
5/29/2024 21:43	14603	SWHI_T1	0	0	0	0	0	0	-2.24	-2.24	2	2	0	1200	1200	0
5/29/2024 21:43	10801	CHHI_T1	1	0	-1	0.1	0	-0.1	-1.25	-0.77	2	1	-1	1500	900	-600
5/29/2024 21:44	10805	CHHI_T2	1	1	0	7.7	7.7	0	-1.15	-1.22	1	1	0	600	600	0
5/29/2024 21:44	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
5/29/2024 21:44	29402	BELT_T1	1	1	0	7.4	7.8	0.4	0	0	0	0	0	0	0	0
5/29/2024 21:44	45502	DERR_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/29/2024 21:44	26803	JAFR_T1	0	0	0	0	0	0	-0.51	-0.51	1	1	0	900	900	0
5/29/2024 21:44	45501	DERR_T2	0	1	1	0	0.5	0.5	-0.14	-0.17	2	2	0	1800	1800	0
5/29/2024 21:44	44301	BEAV_T2	0	0	0	0	0	0	0.01	0.56	1	1	0	600	600	0
5/29/2024 21:45	10103	ALLE_T3	1	1	0	3.3	6.8	3.5	0	0	0	0	0	0	0	0
5/29/2024 21:45	67503	WEWI_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
5/29/2024 21:45	67502	WEWI_T2	57	0	-57	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/29/2024 21:45	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 21:45	10105	ALLE_T3	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
5/29/2024 21:46	63306	GREE_T1	0	0	0	0	0	0	-2.09	-2.1	1	1	0	900	900	0
5/29/2024 21:47	14603	SWHI_T1	0	0	0	0	0	0	-1.12	-1.12	1	1	0	600	600	0
5/29/2024 21:47	14602	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 21:49	29402	BELT_T1	1	1	0	7.7	7.8	0.1	0	0	0	0	0	0	0	0
5/29/2024 21:49	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/29/2024 21:50	29402	BELT_T1	1	1	0	7.7	7.8	0.1	0	0	0	0	0	0	0	0
5/29/2024 21:50	11103	EGYP_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
5/29/2024 21:51	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/29/2024 21:51	29402	BELT_T1	1	1	0	7.7	7.8	0.1	0	0	0	0	0	0	0	0
5/29/2024 21:52	67501	WEWI_T1	0	0	0	0	0	0	-1.13	-1.09	1	1	0	600	600	0
5/29/2024 21:52	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.12	0	0	0	0	0	0
5/29/2024 21:53	67605	WARW_T1	21	32	11	0.44	0.48	0.04	-1.1	-1.2	0	0	0	0	0	0
5/29/2024 21:53	11103	EGYP_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
5/29/2024 21:53	13303	ORVI_T1	0	0	0	0	0	0	1	1.06	0	0	0	0	0	0
5/29/2024 21:53	60801	BUCK_T1	0	39	39	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 21:53	60803	BUCK_T1	0	13	13	0	0.17	0.17	-0.49	-0.51	1	1	0	600	600	0
5/29/2024 21:54	29402	BELT_T1	1	1	0	7.7	7.8	0.1	0	0	0	0	0	0	0	0
5/29/2024 21:54	23202	HIRU_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
5/29/2024 21:55	67603	WARW_T1	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
5/29/2024 21:55	29402	BELT_T1	1	1	0	7.7	7.8	0.1	0	0	0	0	0	0	0	0
5/29/2024 21:55	67605	WARW_T1	21	32	11	0.44	0.48	0.04	0	0	0	0	0	0	0	0
5/29/2024 21:56	67401	WAKE_T2	2	108	106	0.1	0.25	0.15	-0.99	-0.81	0	0	0	0	0	0
5/29/2024 21:56	60104	COCA_T2	4	4	0	0.78	0.98	0.2	0	0	0	0	0	0	0	0
5/29/2024 21:56	60103	COCA_T2	0	0	0	0	0	0	0.58	0.64	1	1	0	900	900	0
5/29/2024 21:56	10801	CHHI_T1	0	0	0	0	0	0	-0.77	-0.83	1	1	0	900	900	0
5/29/2024 21:57	67603	WARW_T1	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
5/29/2024 21:57	67401	WAKE_T2	2	108	106	0.1	0.25	0.15	0	0	0	0	0	0	0	0
5/29/2024 21:57	63602	LETO_T1	0	10	10	0	0.1	0.1	-0.34	-0.35	0	0	0	0	0	0
5/29/2024 21:57	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/29/2024 21:57	17802	GILB_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
5/29/2024 21:57	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.26	0	0	0	0	0	0
5/29/2024 21:57	67605	WARW_T1	21	32	11	0.44	0.48	0.04	-1.1	-1.2	0	0	0	0	0	0
5/29/2024 21:58	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/29/2024 21:58	67602	WARW_T2	0	0	0	0	0	0	0.16	0.12	1	1	0	1200	1200	0
5/29/2024 21:58	53903	HALI_T2	2	2	0	1.7	1.75	0.05	0	0	0	0	0	0	0	0
5/29/2024 21:58	20401	ASHF_T2	2	3	1	0.75	0.67	-0.08	-0.31	-0.35	0	0	0	0	0	0
5/29/2024 21:58	29402	BELT_T1	1	1	0	7.7	7.8	0.1	0	0	0	0	0	0	0	0
5/29/2024 21:58	53901	HALI_T2	1	1	0	0.2	0.3	0.1	-0.92	-0.93	0	0	0	0	0	0
5/29/2024 21:58	53902	HALI_T2	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
5/29/2024 21:59	67605	WARW_T1	21	32	11	0.44	0.48	0.04	-1.1	-1.2	0	0	0	0	0	0
5/29/2024 21:59	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/29/2024 22:00	28703	HAML_T2	3	3	0	0.8	1	0.2	0	0	0	0	0	0	0	0
5/29/2024 22:00	12704	MACU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 22:00	67602	WARW_T2	0	0	0	0	0	0	0.33	0.24	2	2	0	2400	2400	0
5/29/2024 22:00	12807	MICK_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/29/2024 22:00	12701	MACU_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
5/29/2024 22:00	12801	MICK_T1	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
5/29/2024 22:00	28702	HAML_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/29/2024 22:00	28704	HAML_T2	4	15	11	0.38	0.21	-0.17	-0.01	-0.01	0	0	0	0	0	0
5/29/2024 22:00	12803	MICK_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/29/2024 22:00	14205	EALL_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
5/29/2024 22:01	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/29/2024 22:01	62607	ENGL_T1	0	0	0	0	0	0	-0.95	-0.96	1	1	0	300	300	0
5/29/2024 22:01	67602	WARW_T2	0	0	0	0	0	0	0.16	0.12	1	1	0	1200	1200	0
5/29/2024 22:01	14404	SSLA_T1	1	1	0	6.2	5.5	-0.7	0.02	0	0	0	0	0	0	0
5/29/2024 22:01	14802	TREI_T2	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
5/29/2024 22:02	64902	MILL_T2	0	0	0	0	0	0	-1.71	-1.8	3	3	0	2700	2700	0
5/29/2024 22:02	62607	ENGL_T1	0	0	0	0	0	0	-0.95	-0.96	1	1	0	300	300	0
5/29/2024 22:02	64201	KINZ_T1	7	9	2	0.39	0.54	0.15	0.44	0.53	1	1	0	300	300	0
5/29/2024 22:02	64204	KINZ_T1	4	19	15	0.43	0.22	-0.21	0	0	0	0	0	0	0	0
5/29/2024 22:02	64202	KINZ_T1	3	14	11	0.83	0.37	-0.46	0	0	0	0	0	0	0	0
5/29/2024 22:02	14403	SSLA_T1	0	0	0	0	0	0	0.73	0.69	0	0	0	0	0	0
5/29/2024 22:02	23203	HIRU_T2	0	0	0	0	0	0	0.13	-0.06	0	0	0	0	0	0
5/29/2024 22:02	16301	ALPA_T1	199	35	-164	0.24	0.15	-0.09	0.25	0.23	0	0	0	0	0	0
5/29/2024 22:02	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/29/2024 22:02	14404	SSLA_T1	1	1	0	6.2	5.5	-0.7	0	0	0	0	0	0	0	0
5/29/2024 22:03	23203	HIRU_T2	0	0	0	0	0	0	0.13	-0.06	0	0	0	0	0	0
5/29/2024 22:03	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/29/2024 22:03	65604	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:03	67803	WLAN_T1	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
5/29/2024 22:03	67801	WLAN_T1	0	0	0	0	0	0	0.19	1.07	0	0	0	0	0	0
5/29/2024 22:03	67805	WLAN_T1	436	480	44	0.28	0.37	0.09	0	0	0	0	0	0	0	0
5/29/2024 22:03	65601	QVIL_T2	0	36	36	0	0.13	0.13	-1.1	-1.11	1	1	0	900	900	0
5/29/2024 22:03	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:03	67802	WLAN_T1	1	6	5	0.1	0.1	0	0	0	0	0	0	0	0	0
5/29/2024 22:03	67804	WLAN_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
5/29/2024 22:04	20403	ASHF_T2	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
5/29/2024 22:04	29402	BELT_T1	1	1	0	7.8	7.8	0	0	0	0	0	0	0	0	0
5/29/2024 22:04	14801	TREI_T2	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
5/29/2024 22:04	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/29/2024 22:04	20401	ASHF_T2	3	2	-1	0.67	0.25	-0.42	0	0	0	0	0	0	0	0
5/29/2024 22:04	10805	CHHI_T2	1	1	0	7.7	7.9	0.2	-1.22	-1.2	1	1	0	600	600	0
5/29/2024 22:04	67605	WARW_T1	32	14	-18	0.48	0.3	-0.18	-1.1	-1.2	0	0	0	0	0	0
5/29/2024 22:05	61506	EPET_T2	1	0	-1	0	0	0	-1.11	-1.19	1	1	0	900	900	0
5/29/2024 22:05	67805	WLAN_T1	436	480	44	0.28	0.37	0.09	0	0	0	0	0	0	0	0
5/29/2024 22:05	15103	UPHA_T2	0	0	0	0	0	0	0.54	0.47	0	0	0	0	0	0
5/29/2024 22:05	67803	WLAN_T1	0	6	6	0	0.12	0.12	-0.76	-0.79	0	0	0	0	0	0
5/29/2024 22:05	65804	RTWN_T1	0	0	0	0	0	0	0.16	0.25	1	1	0	600	600	0
5/29/2024 22:05	25501	MADI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:05	67802	WLAN_T1	1	6	5	0.1	0.1	0	0	0	0	0	0	0	0	0
5/29/2024 22:05	25503	MADI_T1	134	175	41	0.49	0.56	0.07	-0.98	-0.99	0	0	0	0	0	0
5/29/2024 22:05	61501	EPET_T2	1	1	0	4.9	5.5	0.6	0	0	0	0	0	0	0	0
5/29/2024 22:05	67804	WLAN_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
5/29/2024 22:05	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 22:05	14605	SWHI_T1	0	0	0	0	0	0	1.3	1.07	1	1	0	1200	1200	0
5/29/2024 22:06	20401	ASHF_T2	3	2	-1	0.67	0.25	-0.42	0	0	0	0	0	0	0	0
5/29/2024 22:06	63501	HEID_TBK1-2	2	2	0	0.25	0.15	-0.1	0.43	0.39	0	0	0	0	0	0
5/29/2024 22:06	20403	ASHF_T2	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
5/29/2024 22:06	67804	WLAN_T1	0	8	8	0	0.11	0.11	-1.02	-1.02	0	0	0	0	0	0
5/29/2024 22:06	42002	MNVL_T2	1	2	1	1	0.55	-0.45	0	0	0	0	0	0	0	0
5/29/2024 22:06	67805	WLAN_T1	436	480	44	0.28	0.37	0.09	0	0	0	0	0	0	0	0
5/29/2024 22:06	56802	BENV_T2	49	11	-38	0.17	0.2	0.03	-0.64	-1.34	0	0	0	0	0	0
5/29/2024 22:06	48302	ORWI_T2	2	2	0	1.6	1.15	-0.45	-0.04	-0.06	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/29/2024 22:06	67803	WLAN_T1	0	6	6	0	0.12	0.12	-0.76	-0.79	0	0	0	0	0	0
5/29/2024 22:06	16401	MOPO_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
5/29/2024 22:06	67802	WLAN_T1	1	6	5	0.1	0.1	0	0	0	0	0	0	0	0	0
5/29/2024 22:06	42001	MNVL_T2	3	107	104	0.17	0.19	0.02	0.1	0.05	0	0	0	0	0	0
5/29/2024 22:07	64802	MONE_T2	0	2	2	0	0.1	0.1	0.26	0.25	0	0	0	0	0	0
5/29/2024 22:07	67804	WLAN_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
5/29/2024 22:07	66505	SMAN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:07	67803	WLAN_T1	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
5/29/2024 22:07	60802	BUCK_T2	0	7	7	0	0.1	0.1	0.18	0.18	0	0	0	0	0	0
5/29/2024 22:07	67802	WLAN_T1	1	6	5	0.1	0.1	0	0	0	0	0	0	0	0	0
5/29/2024 22:07	67805	WLAN_T1	436	480	44	0.28	0.37	0.09	-1.43	-1.47	0	0	0	0	0	0
5/29/2024 22:07	66503	SMAN_T2	0	0	0	0	0	0	0.53	0.48	0	0	0	0	0	0
5/29/2024 22:07	67505	WEWI_T1	0	0	0	0	0	0	-0.14	-0.12	1	1	0	900	900	0
5/29/2024 22:07	64801	MONE_T2	1	6	5	0.1	0.23	0.13	0	0	0	0	0	0	0	0
5/29/2024 22:08	63501	HEID_TBK1-2	2	2	0	0.25	0.15	-0.1	0.39	0.39	0	0	0	0	0	0
5/29/2024 22:08	65503	MOJO_T2	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
5/29/2024 22:09	67803	WLAN_T1	0	6	6	0	0.12	0.12	-0.79	-0.79	0	0	0	0	0	0
5/29/2024 22:09	40602	PIGR_T1	1	1	0	1.7	0.9	-0.8	-0.5	-0.54	1	1	0	600	600	0
5/29/2024 22:09	67805	WLAN_T1	436	480	44	0.28	0.37	0.09	0	0	0	0	0	0	0	0
5/29/2024 22:09	66504	SMAN_T2	0	0	0	0	0	0	-0.78	-0.95	0	0	0	0	0	0
5/29/2024 22:09	67802	WLAN_T1	1	6	5	0.1	0.1	0	0	0	0	0	0	0	0	0
5/29/2024 22:09	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 22:09	66505	SMAN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:09	63501	HEID_TBK1-2	2	2	0	0.25	0.15	-0.1	0.39	0.39	0	0	0	0	0	0
5/29/2024 22:09	46301	ROHR_T1	0	23	23	0	0.1	0.1	0.19	0.16	0	0	0	0	0	0
5/29/2024 22:09	67703	WERN_T2	0	0	0	0	0	0	-0.16	-0.2	1	1	0	900	900	0
5/29/2024 22:09	60501	NMAN_T2	3	3	0	4.7	5.03	0.33	0	0	0	0	0	0	0	0
5/29/2024 22:09	67804	WLAN_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
5/29/2024 22:09	60502	NMAN_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
5/29/2024 22:09	46302	ROHR_T1	4	5	1	2	1.74	-0.26	0	0	0	0	0	0	0	0
5/29/2024 22:10	55001	NEWP_T1	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
5/29/2024 22:10	46302	ROHR_T1	4	5	1	2	1.74	-0.26	0.16	0.14	0	0	0	0	0	0
5/29/2024 22:10	46301	ROHR_T1	0	23	23	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:10	55002	NEWP_T1	6	3	-3	0.83	0.47	-0.36	0	0	0	0	0	0	0	0
5/29/2024 22:10	59102	WALK_T2	65	0	-65	0.26	0	-0.26	0	0	0	0	0	0	0	0
5/29/2024 22:10	21206	ECAR_T2	1	1	0	8.2	8.3	0.1	0.02	0.08	0	0	0	0	0	0
5/29/2024 22:10	67703	WERN_T2	0	0	0	0	0	0	-0.16	-0.2	1	1	0	900	900	0
5/29/2024 22:10	65001	NEFF_T2	0	0	0	0	0	0	-0.84	-0.85	1	1	0	1200	1200	0
5/29/2024 22:10	59101	WALK_T2	41	22	-19	0.23	0.15	-0.08	-0.67	-0.69	0	0	0	0	0	0
5/29/2024 22:10	14404	SSLA_T1	1	1	0	6.2	5.5	-0.7	0	-0.01	0	0	0	0	0	0
5/29/2024 22:10	64701	LITI_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
5/29/2024 22:10	21204	ECAR_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/29/2024 22:11	67801	WLAN_T1	0	0	0	0	0	0	1.07	1.04	0	0	0	0	0	0
5/29/2024 22:11	67602	WARW_T2	0	0	0	0	0	0	0.12	0.05	1	1	0	1200	1200	0
5/29/2024 22:11	51002	NHAR_T1	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
5/29/2024 22:11	67805	WLAN_T1	436	480	44	0.28	0.37	0.09	0	0	0	0	0	0	0	0
5/29/2024 22:11	59101	WALK_T2	41	22	-19	0.23	0.15	-0.08	-0.67	-0.69	0	0	0	0	0	0
5/29/2024 22:11	66504	SMAN_T2	0	0	0	0	0	0	-0.39	-0.48	0	0	0	0	0	0
5/29/2024 22:11	66505	SMAN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:11	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/29/2024 22:11	67802	WLAN_T1	1	6	5	0.1	0.1	0	0	0	0	0	0	0	0	0
5/29/2024 22:11	67803	WLAN_T1	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
5/29/2024 22:11	51004	NHAR_T1	4	2	-2	1.68	3.15	1.47	-0.49	-0.72	0	0	0	0	0	0
5/29/2024 22:11	59102	WALK_T2	65	0	-65	0.26	0	-0.26	0	0	0	0	0	0	0	0
5/29/2024 22:11	67804	WLAN_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
5/29/2024 22:11	67703	WERN_T2	0	0	0	0	0	0	-0.16	-0.2	1	1	0	900	900	0
5/29/2024 22:11	10801	OHIH_T1	0	0	0	0	0	0	-0.83	-0.85	1	1	0	900	900	0
5/29/2024 22:12	50201	HARR_T3	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/29/2024 22:12	50103	HARR_T3	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
5/29/2024 22:12	16504	STRO_T1	0	0	0	0	0	0	0.32	0.25	1	1	0	1200	1200	0
5/29/2024 22:12	67805	WLAN_T1	436	480	44	0.28	0.37	0.09	0	0	0	0	0	0	0	0
5/29/2024 22:12	64801	MONE_T2	1	6	5	0.1	0.23	0.13	0	0	0	0	0	0	0	0
5/29/2024 22:12	45602	WOOL_T1	0	1	1	0	0.1	0.1	0.6	0.6	0	0	0	0	0	0
5/29/2024 22:12	50107	HARR_T3	0	0	0	0	0	0	0.53	0.59	0	0	0	0	0	0
5/29/2024 22:12	64802	MONE_T2	0	2	2	0	0.1	0.1	0.25	0.25	0	0	0	0	0	0
5/29/2024 22:12	67802	WLAN_T1	1	6	5	0.1	0.1	0	0	0	0	0	0	0	0	0
5/29/2024 22:12	67803	WLAN_T1	0	6	6	0	0.12	0.12	-0.79	-0.79	0	0	0	0	0	0
5/29/2024 22:12	13303	ORVI_T1	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
5/29/2024 22:12	67804	WLAN_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
5/29/2024 22:12	67703	WERN_T2	0	0	0	0	0	0	-0.31	-0.4	2	2	0	1800	1800	0
5/29/2024 22:12	67702	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
5/29/2024 22:12	50105	HARR_T3	6	6	0	5.8	5.87	0.07	0	0	0	0	0	0	0	0
5/29/2024 22:13	24205	PROV_T3	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
5/29/2024 22:13	51604	DUKE_T2	0	0	0	0	0	0	-1.29	-1.31	1	1	0	900	900	0
5/29/2024 22:13	54201	PENN_T1	9	3	-6	0.68	0.73	0.05	0.37	0.38	0	0	0	0	0	0
5/29/2024 22:13	67803	WLAN_T1	0	6	6	0	0.12	0.12	-1.58	-1.58	0	0	0	0	0	0
5/29/2024 22:13	67802	WLAN_T1	1	6	5	0.1	0.1	0	0	0	0	0	0	0	0	0
5/29/2024 22:13	67502	WEWI_T2	0	0	0	0	0	0	-0.34	-0.39	0	0	0	0	0	0
5/29/2024 22:13	42002	MNVL_T2	1	2	1	1	0.55	-0.45	0.16	0.17	0	0	0	0	0	0
5/29/2024 22:13	65503	MOJO_T2	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
5/29/2024 22:13	54203	PENN_T1	18	18	0	0.95	0.41	-0.54	0	0	0	0	0	0	0	0
5/29/2024 22:13	24204	PROV_T3	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
5/29/2024 22:13	67703	WERN_T2	0	0	0	0	0	0	-0.16	-0.2	1	1	0	900	900	0
5/29/2024 22:13	24201	PROV_T3	1	1	0	6.8	5.9	-0.9	-1.46	-1.48	1	1	0	1200	1200	0
5/29/2024 22:13	14802	TREI_T2	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
5/29/2024 22:13	59202	THOM_T1	363	20	-343	0.45	0.15	-0.3	0	0	0	0	0	0	0	0
5/29/2024 22:13	67804	WLAN_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
5/29/2024 22:13	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/29/2024 22:13	67805	WLAN_T1	436	480	44	0.28	0.37	0.09	0	0	0	0	0	0	0	0
5/29/2024 22:13	42001	MNVL_T2	3	107	104	0.17	0.19	0.02	0	0	0	0	0	0	0	0
5/29/2024 22:13	59201	THOM_T1	31	7	-24	0.5	0.11	-0.39	0	0	0	0	0	0	0	0
5/29/2024 22:14	24206	PROV_T4	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 22:14	67501	WEWI_T1	0	0	0	0	0	0	-1.17	-1.17	1	1	0	600	600	0
5/29/2024 22:14	67805	WLAN_T1	436	480	44	0.28	0.37	0.09	0	0	0	0	0	0	0	0
5/29/2024 22:14	24202	PROV_T4	32	0	-32	0.16	0	-0.16	-0.59	-0.6	1	1	0	1200	1200	0
5/29/2024 22:14	41202	KENM_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:14	41204	KENM_T2	0	0	0	0	0	0	0.32	0.36	0	0	0	0	0	0
5/29/2024 22:14	67802	WLAN_T1	1	6	5	0.1	0.1	0	0	0	0	0	0	0	0	0
5/29/2024 22:14	67804	WLAN_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
5/29/2024 22:14	67803	WLAN_T1	0	6	6	0	0.12	0.12	-0.79	-0.79	0	0	0	0	0	0
5/29/2024 22:15	59202	THOM_T1	6	126	120	0.12	0.14	0.02	0	0	0	0	0	0	0	0
5/29/2024 22:15	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/29/2024 22:15	59201	THOM_T1	1	15	14	0.1	0.19	0.09	0	0	0	0	0	0	0	0
5/29/2024 22:15	55002	NEWP_T1	2	5	3	0.35	0.4	0.05	-0.27	-0.29	0	0	0	0	0	0
5/29/2024 22:15	67703	WERN_T2	0	0	0	0	0	0	-0.16	-0.2	1	1	0	900	900	0
5/29/2024 22:15	56802	BENV_T2	1	39	38	0.8	0.16	-0.64	-2.68	-2.7	0	0	0	0	0	0
5/29/2024 22:15	61103	BERK_T5	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
5/29/2024 22:15	67602	WARW_T2	0	0	0	0	0	0	0.24	0.1	2	2	0	2400	2400	0
5/29/2024 22:15	57006	WHHI_T2	0	1	1	0	0.1	0.1	0.85	0.85	0	0	0	0	0	0
5/29/2024 22:15	57003	WHHI_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/29/2024 22:16	67505	WEWI_T1	0	0	0	0	0	0	-0.12	-0.1	1	1	0	900	900	0
5/29/2024 22:16	67502	WEWI_T2	0	25	25	0	0.12	0.12	0	0	0	0	0	0	0	0
5/29/2024 22:16	63305	GREE_T1	0	0	0	0	0	0	-0.99	-1.06	0	0	0	0	0	0
5/29/2024 22:16	58006	WCAR_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
5/29/2024 22:16	40601	PIGR_T1	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
5/29/2024 22:16	67503	WEWI_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
5/29/2024 22:16	52202	DEVO_T2	0	0	0	0	0	0	-0.73	-0.71	0	0	0	0	0	0
5/29/2024 22:16	66902	SHIL_T2	0	0	0	0	0	0	-3.24	-3.3	0	0	0	0	0	0
5/29/2024 22:16	17804	GILB_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
5/29/2024 22:16	56802	BENV_T2	1	39	38	0.8	0.16	-0.64	-2.68	-2.7	0	0	0	0	0	0
5/29/2024 22:16	40602	PIGR_T1	1	1	0	1.1	0.4	-0.7	0	0	0	0	0	0	0	0
5/29/2024 22:16	24105	EHAZ_T1	4	4	0	5.55	5.6	0.05	0	0	0	0	0	0	0	0
5/29/2024 22:16	24103	EHAZ_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
5/29/2024 22:16	63302	GREE_T1	1	0	-1	5.7	0	-5.7	0	0	0	0	0	0	0	0
5/29/2024 22:16	24702	FLND_T2	2	0	-2	0.3	0	-0.3	0.19	-0.37	1	1	0	1200	1200	0
5/29/2024 22:16	63306	GREE_T1	0	0	0	0	0	0	-1.43	-1.45	1	1	0	900	900	0
5/29/2024 22:17	24602	VARD_T2	808	884	76	1.1	1.28	0.18	-1	-1.02	0	0	0	0	0	0
5/29/2024 22:17	57002	WHHI_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
5/29/2024 22:17	43402	BENT_T1	0	1	1	0	0	0	-0.94	-0.94	1	1	0	900	900	0
5/29/2024 22:17	67204	TEHI_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
5/29/2024 22:17	56802	BENV_T2	1	39	38	0.8	0.16	-0.64	-1.34	-1.35	0	0	0	0	0	0
5/29/2024 22:17	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:17	52006	LING_T2	2	2	0	0.25	0.8	0.55	0	0	0	0	0	0	0	0
5/29/2024 22:17	14404	SSLA_T1	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
5/29/2024 22:17	57003	WHHI_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/29/2024 22:17	24603	VARD_T2	96	117	21	0.34	0.38	0.04	0	0	0	0	0	0	0	0
5/29/2024 22:17	55003	NEWP_T2	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
5/29/2024 22:17	60101	COCA_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
5/29/2024 22:17	52004	LING_T2	0	1	1	0	0.1	0.1	0.19	0.18	0	0	0	0	0	0
5/29/2024 22:17	52002	LING_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
5/29/2024 22:17	14403	SSLA_T1	0	0	0	0	0	0	0.69	0.64	0	0	0	0	0	0
5/29/2024 22:18	56802	BENV_T2	1	39	38	0.8	0.16	-0.64	-1.34	-1.35	0	0	0	0	0	0
5/29/2024 22:18	55001	NEWP_T1	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
5/29/2024 22:18	54501	ENOL_T2	0	3	3	0	0.1	0.1	-0.48	-0.47	1	1	0	600	600	0
5/29/2024 22:18	62102	ELAN_T1	0	0	0	0	0	0	0.73	0.76	0	0	0	0	0	0
5/29/2024 22:18	61301	EARL_T1	0	0	0	0	0	0	-1.47	-1.5	2	2	0	1800	1800	0
5/29/2024 22:18	24901	WHHA_T1	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
5/29/2024 22:18	54502	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/29/2024 22:18	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
5/29/2024 22:18	55002	NEWP_T1	2	5	3	0.35	0.4	0.05	0	0	0	0	0	0	0	0
5/29/2024 22:18	54505	ENOL_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
5/29/2024 22:18	63804	HEMP_T1	1	1	0	6	5.3	-0.7	0.87	-0.42	0	0	0	0	0	0
5/29/2024 22:19	56802	BENV_T2	1	39	38	0.8	0.16	-0.64	-2.68	-2.7	0	0	0	0	0	0
5/29/2024 22:19	61102	BERK_T5	0	0	0	0	0	0	0.33	0.38	1	1	0	300	300	0
5/29/2024 22:19	63302	GREE_T1	1	0	-1	5.7	0	-5.7	0	0	0	0	0	0	0	0
5/29/2024 22:19	59101	WALK_T2	0	56	56	0	0.63	0.63	-0.67	-0.69	0	0	0	0	0	0
5/29/2024 22:19	63306	GREE_T1	0	0	0	0	0	0	-1.43	-1.45	1	1	0	900	900	0
5/29/2024 22:19	48302	ORWI_T2	2	2	0	1.15	0.8	-0.35	0	0	0	0	0	0	0	0
5/29/2024 22:19	54201	PENN_T1	3	3	0	0.43	0.93	0.5	0.37	0.38	0	0	0	0	0	0
5/29/2024 22:19	64101	REFR_T1	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
5/29/2024 22:19	54203	PENN_T1	5	18	13	0.56	0.43	-0.13	0	0	0	0	0	0	0	0
5/29/2024 22:19	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:19	67204	TEHI_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/29/2024 22:19	52202	DEVO_T2	0	0	0	0	0	0	-0.73	-0.71	0	0	0	0	0	0
5/29/2024 22:20	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 22:20	53903	HALI_T2	2	2	0	0.95	0.6	-0.35	0	0	0	0	0	0	0	0
5/29/2024 22:20	53901	HALI_T2	0	0	0	0	0	0	-0.93	-0.91	0	0	0	0	0	0
5/29/2024 22:20	54502	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/29/2024 22:20	43402	BENT_T1	0	1	1	0	0	0	-0.94	-0.94	1	1	0	900	900	0
5/29/2024 22:20	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 22:20	53902	HALI_T2	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
5/29/2024 22:20	54505	ENOL_T2	1	1	0	0.3	0.8	0.5	-1.24	-1.26	1	1	0	600	600	0
5/29/2024 22:20	54501	ENOL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:20	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
5/29/2024 22:20	61803	EELI_T2	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
5/29/2024 22:21	55002	NEWP_T1	2	5	3	0.35	0.4	0.05	-0.27	-0.29	0	0	0	0	0	0
5/29/2024 22:21	67602	WARW_T2	0	0	0	0	0	0	0.12	0.05	1	1	0	1200	1200	0
5/29/2024 22:21	65901	SAKR_T2	1	1	0	8.5	8.5	0	0	0	0	0	0	0	0	0
5/29/2024 22:21	67203	TEHI_T1	0	0	0	0	0	0	2.08	2.07	2	2	0	1500	1500	0
5/29/2024 22:21	52006	LING_T2	2	2	0	0.25	0.8	0.55	0	0	0	0	0	0	0	0
5/29/2024 22:21	45901	AUBU_T1	0	0	0	0	0	0	2.26	2.24	0	0	0	0	0	0
5/29/2024 22:21	52004	LING_T2	0	1	1	0	0.1	0.1	0.19	0.18	0	0	0	0	0	0
5/29/2024 22:21	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 22:21	65904	SAKR_T2	0	0	0	0	0	0	-1.52	-1.62	3	3	0	1500	1500	0
5/29/2024 22:21	52002	LING_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
5/29/2024 22:21	64101	REFR_T1	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
5/29/2024 22:21	40302	TAMA_T3	0	0	0	0	0	0	0.14	0.1	0	0	0	0	0	0
5/29/2024 22:22	55101	WERT_T1	0	0	0	0	0	0	-1.3	-1.4	2	2	0	1500	1500	0
5/29/2024 22:22	57401	SPAN_T1	0	0	0	0	0	0	-0.7	-0.76	1	1	0	600	600	0
5/29/2024 22:22	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:22	52501	PROG_T1	0	0	0	0	0	0	0.54	0.43	1	1	0	300	300	0
5/29/2024 22:22	46002	BERW_T2	0	0	0	0	0	0	-1.13	-1.14	1	1	0	900	900	0
5/29/2024 22:22	57403	SPAN_T1	24	27	3	0.22	0.25	0.03	0	0	0	0	0	0	0	0
5/29/2024 22:22	51604	DUKE_T2	0	0	0	0	0	0	-1.29	-1.31	1	1	0	900	900	0
5/29/2024 22:22	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 22:23	54502	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/29/2024 22:23	56802	BENV_T2	1	39	38	0.8	0.16	-0.64	-4.05	-4.2	0	0	0	0	0	0
5/29/2024 22:23	54501	ENOL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:23	56801	BENV_T1	1	8	7	0.1	0.41	0.31	-1.06	-1.02	2	2	0	1200	1200	0
5/29/2024 22:23	63305	GREE_T1	0	0	0	0	0	0	-1.06	-1.08	0	0	0	0	0	0
5/29/2024 22:23	53902	HALI_T2	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
5/29/2024 22:23	54504	ENOL_T2	0	0	0	0	0	0	-1.11	-1.13	1	1	0	600	600	0
5/29/2024 22:23	63302	GREE_T1	1	0	-1	5.7	0	-5.7	0	0	0	0	0	0	0	0
5/29/2024 22:23	54505	ENOL_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
5/29/2024 22:23	53903	HALI_T2	2	2	0	0.95	0.6	-0.35	-0.2	-0.21	0	0	0	0	0	0
5/29/2024 22:23	46402	FLEM_T2	20	20	0	0.45	0.48	0.03	0.61	0.58	0	0	0	0	0	0
5/29/2024 22:23	46401	FLEM_T2	24	38	14	0.18	0.19	0.01	0	0	0	0	0	0	0	0
5/29/2024 22:24	13704	SOHN_T2	2	5	3	0.1	0.24	0.14	-0.37	-0.37	0	0	0	0	0	0
5/29/2024 22:24	42902	MIDD_T2	31	37	6	0.29	0.34	0.05	-0.23	-0.24	0	0	0	0	0	0
5/29/2024 22:24	57003	WHHI_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/29/2024 22:24	58402	MORO_T1	0	0	0	0	0	0	-0.35	-0.37	2	2	0	1500	1500	0
5/29/2024 22:24	44201	POIN_T1	75	123	48	0.16	0.19	0.03	-2.32	-2.27	2	2	0	2100	2100	0
5/29/2024 22:24	57002	WHHI_T2	0	0	0	0	0	0	-0.04	-0.07	0	0	0	0	0	0
5/29/2024 22:24	42903	MIDD_T2	2	2	0	2.05	2.1	0.05	0	0	0	0	0	0	0	0
5/29/2024 22:24	58401	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 22:24	56801	BENV_T1	1	8	7	0.1	0.41	0.31	-1.06	-1.02	2	2	0	1200	1200	0
5/29/2024 22:24	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:24	42901	MIDD_T2	3	41	38	0.1	0.11	0.01	0	0	0	0	0	0	0	0
5/29/2024 22:24	56802	BENV_T2	1	39	38	0.8	0.16	-0.64	-2.7	-2.8	0	0	0	0	0	0
5/29/2024 22:24	52501	PROG_T1	0	0	0	0	0	0	0.43	0.46	1	1	0	300	300	0
5/29/2024 22:24	45902	AUBU_T1	0	0	0	0	0	0	-1.99	-1.73	2	2	0	1200	1200	0
5/29/2024 22:24	47802	MOCA_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
5/29/2024 22:25	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 22:25	64204	KINZ_T1	12	18	6	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
5/29/2024 22:25	20401	ASHF_T2	2	2	0	0.2	0.4	0.2	-0.36	-0.34	0	0	0	0	0	0
5/29/2024 22:25	12704	MACU_T1	1	0	-1	5.7	0	-5.7	0	0	0	0	0	0	0	0
5/29/2024 22:25	64203	KINZ_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
5/29/2024 22:25	45902	AUBU_T1	0	0	0	0	0	0	-1.99	-1.73	2	2	0	1200	1200	0
5/29/2024 22:25	56802	BENV_T2	1	39	38	0.8	0.16	-0.64	-2.7	-2.8	0	0	0	0	0	0
5/29/2024 22:25	12701	MACU_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
5/29/2024 22:25	64201	KINZ_T1	9	9	0	0.54	0.5	-0.04	0	0	0	0	0	0	0	0
5/29/2024 22:25	56803	BENV_T1	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
5/29/2024 22:25	60101	COCA_T1	0	0	0	0	0	0	0.58	0.5	0	0	0	0	0	0
5/29/2024 22:25	64202	KINZ_T1	10	14	4	0.36	0.36	0	0	0	0	0	0	0	0	0
5/29/2024 22:25	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/29/2024 22:25	52501	PROG_T1	0	0	0	0	0	0	0.43	0.46	1	1	0	300	300	0
5/29/2024 22:25	56801	BENV_T1	1	8	7	0.1	0.41	0.31	-0.53	-0.51	1	1	0	600	600	0
5/29/2024 22:25	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/29/2024 22:26	24105	EHAZ_T1	4	4	0	5.55	5.6	0.05	0	0	0	0	0	0	0	0
5/29/2024 22:26	24104	EHAZ_T1	0	0	0	0	0	0	-0.98	-0.99	1	1	0	1200	1200	0
5/29/2024 22:26	50502	MECH_T1	1	1	0	2	2.4	0.4	0	0	0	0	0	0	0	0
5/29/2024 22:26	47401	PENS_T1	0	0	0	0	0	0	0.8	0.82	0	0	0	0	0	0
5/29/2024 22:26	45902	AUBU_T1	0	0	0	0	0	0	-1	-0.87	1	1	0	600	600	0
5/29/2024 22:26	56801	BENV_T1	1	8	7	0.1	0.41	0.31	-1.06	-1.02	2	2	0	1200	1200	0
5/29/2024 22:26	50506	MECH_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
5/29/2024 22:26	42503	ALTA_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
5/29/2024 22:26	42201	SHEN_T2	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
5/29/2024 22:26	50501	MECH_T1	4	4	0	0.3	1.13	0.83	0	0	0	0	0	0	0	0
5/29/2024 22:26	22905	HARW_T1	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
5/29/2024 22:26	56802	BENV_T2	1	39	38	0.8	0.16	-0.64	-1.35	-1.4	0	0	0	0	0	0
5/29/2024 22:27	42901	MIDD_T2	3	41	38	0.1	0.11	0.01	0	0	0	0	0	0	0	0
5/29/2024 22:27	46301	ROHR_T1	23	0	-23	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/29/2024 22:27	46504	LOHA_T1	6	2	-4	0.55	0.6	0.05	0	0	0	0	0	0	0	0
5/29/2024 22:27	20601	GRWO_T2	26	12	-14	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
5/29/2024 22:27	46506	LOHA_T1	30	8	-22	0.21	0.26	0.05	0	0	0	0	0	0	0	0
5/29/2024 22:27	46302	ROHR_T1	5	4	-1	1.66	2.03	0.37	0.14	0.16	0	0	0	0	0	0
5/29/2024 22:27	58001	WCAR_T1	4	9	5	1.4	0.87	-0.53	0	0	0	0	0	0	0	0
5/29/2024 22:27	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
5/29/2024 22:27	42902	MIDD_T2	31	37	6	0.29	0.34	0.05	-0.46	-0.48	0	0	0	0	0	0
5/29/2024 22:27	55105	WERT_T1	0	0	0	0	0	0	-0.48	-0.48	1	1	0	900	900	0
5/29/2024 22:27	42903	MIDD_T2	2	2	0	2.05	2.1	0.05	0	0	0	0	0	0	0	0
5/29/2024 22:27	58003	WCAR_T1	3	58	55	0.7	0.24	-0.46	1.18	1.24	0	0	0	0	0	0
5/29/2024 22:27	43505	WWIL_T1	1	1	0	2.7	2.8	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:27	57401	SPAN_T1	0	0	0	0	0	0	-0.76	-0.75	1	1	0	600	600	0
5/29/2024 22:27	43504	WWIL_T1	14	13	-1	0.67	0.76	0.09	0.5	0.48	0	0	0	0	0	0
5/29/2024 22:27	43506	WWIL_T1	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:27	20603	GRWO_T2	4	0	-4	0.1	0	-0.1	0.34	0.34	0	0	0	0	0	0
5/29/2024 22:27	57403	SPAN_T1	24	27	3	0.22	0.25	0.03	0	0	0	0	0	0	0	0
5/29/2024 22:28	52002	LING_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
5/29/2024 22:28	45801	HEGI_T1	0	0	0	0	0	0	-0.12	-0.12	1	1	0	900	900	0
5/29/2024 22:28	58003	WCAR_T1	3	58	55	0.7	0.24	-0.46	0.59	0.62	0	0	0	0	0	0
5/29/2024 22:28	67803	WLAN_T1	1	6	5	0.1	0.12	0.02	0	0	0	0	0	0	0	0
5/29/2024 22:28	56802	BENV_T2	1	39	38	0.8	0.16	-0.64	-1.35	-1.4	0	0	0	0	0	0
5/29/2024 22:28	46506	LOHA_T1	30	8	-22	0.21	0.26	0.05	-0.44	-0.48	0	0	0	0	0	0
5/29/2024 22:28	63804	HEMP_T1	1	1	0	6	5.3	-0.7	0	0	0	0	0	0	0	0
5/29/2024 22:28	67201	TEHI_T1	0	0	0	0	0	0	-0.69	-0.67	1	1	0	900	900	0
5/29/2024 22:28	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.3	-0.29	2	2	0	1800	1800	0
5/29/2024 22:28	52004	LING_T2	0	1	1	0	0.1	0.1	0.37	0.32	0	0	0	0	0	0
5/29/2024 22:28	46504	LOHA_T1	6	2	-4	0.55	0.6	0.05	0	0	0	0	0	0	0	0
5/29/2024 22:28	51604	DUKE_T2	0	0	0	0	0	0	-1.31	-1.33	1	1	0	900	900	0
5/29/2024 22:28	58102	NEKI_T1	1	1	0	0.1	0.6	0.5	0.21	0.29	0	0	0	0	0	0
5/29/2024 22:28	40602	PIGR_T1	1	1	0	1.1	0.4	-0.7	0	0	0	0	0	0	0	0
5/29/2024 22:28	52006	LING_T2	2	2	0	0.25	0.8	0.55	0	0	0	0	0	0	0	0
5/29/2024 22:28	40601	PIGR_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
5/29/2024 22:28	45602	WOOL_T1	0	1	1	0	0.1	0.1	0.6	0.53	0	0	0	0	0	0
5/29/2024 22:28	67804	WLAN_T1	1	14	13	0.1	0.11	0.01	-1.04	-1.06	0	0	0	0	0	0
5/29/2024 22:28	63801	HEMP_T1	0	0	0	0	0	0	-0.81	-0.77	1	1	0	900	900	0
5/29/2024 22:28	67805	WLAN_T1	418	480	62	0.26	0.37	0.11	0	0	0	0	0	0	0	0
5/29/2024 22:28	47401	PENS_T1	0	0	0	0	0	0	1.6	1.65	0	0	0	0	0	0
5/29/2024 22:28	58001	WCAR_T1	4	9	5	1.4	0.87	-0.53	0	0	0	0	0	0	0	0
5/29/2024 22:28	67802	WLAN_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:28	58006	WCAR_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
5/29/2024 22:28	41801	COCI_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:28	45502	DERR_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/29/2024 22:29	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 22:29	55002	NEWP_T1	2	5	3	0.35	0.4	0.05	-0.29	-0.27	0	0	0	0	0	0
5/29/2024 22:29	44201	POIN_T1	75	123	48	0.16	0.19	0.03	-2.32	-2.27	2	2	0	2100	2100	0
5/29/2024 22:29	40602	PIGR_T1	1	1	0	1.1	0.4	-0.7	0	0	0	0	0	0	0	0
5/29/2024 22:29	43701	WILL_T1	1	1	0	0.1	0.1	0	0.09	0.08	0	0	0	0	0	0
5/29/2024 22:29	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/29/2024 22:29	52402	GRPA_T2	3	4	1	0.47	0.53	0.06	-0.78	-0.81	0	0	0	0	0	0
5/29/2024 22:29	43703	WILL_T1	7	11	4	0.13	0.16	0.03	0	0	0	0	0	0	0	0
5/29/2024 22:29	43704	WILL_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
5/29/2024 22:29	52404	GRPA_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
5/29/2024 22:29	40601	PIGR_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
5/29/2024 22:29	43705	WILL_T1	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/29/2024 22:30	42903	MIDD_T2	2	2	0	2	2.25	0.25	0	0	0	0	0	0	0	0
5/29/2024 22:30	56801	BENV_T1	8	14	6	0.31	0.49	0.18	-0.53	-0.51	1	1	0	600	600	0
5/29/2024 22:30	52404	GRPA_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
5/29/2024 22:30	43301	WATS_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/29/2024 22:30	28403	HART_T2	0	0	0	0	0	0	-0.88	-0.9	1	1	0	900	900	0
5/29/2024 22:30	43103	SMIL_T2	21	20	-1	0.48	0.54	0.06	-0.98	-0.98	0	0	0	0	0	0
5/29/2024 22:30	46801	HEPB_T2	3	0	-3	0.67	0	-0.67	0.59	0.53	0	0	0	0	0	0
5/29/2024 22:30	42901	MIDD_T2	1	53	52	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/29/2024 22:30	53802	MBRG_T2	0	0	0	0	0	0	1.25	1.21	0	0	0	0	0	0
5/29/2024 22:30	42201	SHEN_T2	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
5/29/2024 22:30	67802	WLAN_T1	6	5	-1	0.1	0.16	0.06	0	0	0	0	0	0	0	0
5/29/2024 22:30	43302	WATS_T2	4	4	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
5/29/2024 22:30	50502	MECH_T1	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
5/29/2024 22:30	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 22:30	67801	WLAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:30	60104	COCA_T2	4	4	0	1	1.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 22:30	67805	WLAN_T1	478	486	8	0.37	0.42	0.05	-1.47	-1.46	0	0	0	0	0	0
5/29/2024 22:30	43102	SMIL_T2	6	7	1	0.48	0.29	-0.19	0	0	0	0	0	0	0	0
5/29/2024 22:30	52403	GRPA_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:30	50501	MECH_T1	4	4	0	1.13	0.8	-0.33	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/29/2024 22:30	45502	DERR_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/29/2024 22:30	52402	GRPA_T2	3	4	1	0.63	0.65	0.02	0	0	0	0	0	0	0	0
5/29/2024 22:30	46803	HEPB_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/29/2024 22:30	45501	DERR_T2	1	0	-1	0.1	0	-0.1	-0.3	-0.29	2	2	0	1800	1800	0
5/29/2024 22:30	45902	AUBU_T1	0	0	0	0	0	0	-1	-0.87	1	1	0	600	600	0
5/29/2024 22:30	50506	MECH_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
5/29/2024 22:30	46206	DANV_T2	13	13	0	3.77	4.02	0.25	1.36	1.4	1	1	0	1200	1200	0
5/29/2024 22:30	52401	GRPA_T2	1	1	0	0.2	0.6	0.4	-0.42	-0.41	0	0	0	0	0	0
5/29/2024 22:30	67804	WLAN_T1	8	44	36	0.11	0.13	0.02	0	0	0	0	0	0	0	0
5/29/2024 22:30	60105	COCA_T2	0	0	0	0	0	0	-0.18	-0.17	1	1	0	600	600	0
5/29/2024 22:30	67803	WLAN_T1	6	58	52	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
5/29/2024 22:30	42902	MIDD_T2	27	41	14	0.3	0.35	0.05	-0.23	-0.24	0	0	0	0	0	0
5/29/2024 22:31	46004	BERW_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
5/29/2024 22:31	43301	WATS_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/29/2024 22:31	44502	HAMI_T2	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
5/29/2024 22:31	43201	MVIL_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
5/29/2024 22:31	47502	NECO_T1	11	1	-10	0.17	0.7	0.53	0.91	0.82	0	0	0	0	0	0
5/29/2024 22:31	44505	HAMI_T2	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
5/29/2024 22:31	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 22:31	52402	GRPA_T2	3	4	1	0.63	0.65	0.02	-0.78	-0.81	0	0	0	0	0	0
5/29/2024 22:31	50501	MECH_T1	4	4	0	1.13	0.8	-0.33	0	-0.16	0	0	0	0	0	0
5/29/2024 22:31	46003	BERW_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/29/2024 22:31	43402	BENT_T1	0	3	3	0	0.3	0.3	-0.94	-0.95	1	1	0	900	900	0
5/29/2024 22:31	45402	WBLO_T2	2	14	12	1.25	0.28	-0.97	-1.82	-1.86	1	1	0	900	900	0
5/29/2024 22:31	58302	NOTT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	1200	1200	0
5/29/2024 22:31	52403	GRPA_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:31	52404	GRPA_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
5/29/2024 22:31	52401	GRPA_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/29/2024 22:31	20403	ASHF_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
5/29/2024 22:31	20401	ASHF_T2	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
5/29/2024 22:31	50502	MECH_T1	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
5/29/2024 22:31	43302	WATS_T2	4	4	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
5/29/2024 22:32	52402	GRPA_T2	3	4	1	0.63	0.65	0.02	0	0	0	0	0	0	0	0
5/29/2024 22:32	58402	MORO_T1	0	0	0	0	0	0	-0.35	-0.37	2	2	0	1500	1500	0
5/29/2024 22:32	55002	NEWP_T1	3	5	2	0.47	0.42	-0.05	-0.29	-0.27	0	0	0	0	0	0
5/29/2024 22:32	52403	GRPA_T2	0	5	5	0	0.1	0.1	0	-0.04	0	0	0	0	0	0
5/29/2024 22:32	52404	GRPA_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
5/29/2024 22:32	58401	MORO_T1	0	0	0	0	0	0	-1.18	-1.2	1	1	0	600	600	0
5/29/2024 22:32	52401	GRPA_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/29/2024 22:33	46801	HEPB_T2	3	0	-3	0.67	0	-0.67	0.59	0.53	0	0	0	0	0	0
5/29/2024 22:33	46003	BERW_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/29/2024 22:33	53902	HALI_T2	1	1	0	4.9	5	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:33	46803	HEPB_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/29/2024 22:33	53903	HALI_T2	2	2	0	0.6	0.9	0.3	-0.2	-0.21	0	0	0	0	0	0
5/29/2024 22:33	47401	PENS_T1	0	0	0	0	0	0	0.8	0.82	0	0	0	0	0	0
5/29/2024 22:33	56802	BENV_T2	11	82	71	0.2	0.18	-0.02	-1.35	-1.4	0	0	0	0	0	0
5/29/2024 22:33	46002	BERW_T2	0	0	0	0	0	0	-1.14	-1.13	1	1	0	900	900	0
5/29/2024 22:34	52403	GRPA_T2	0	5	5	0	0.1	0.1	0	-0.02	0	0	0	0	0	0
5/29/2024 22:34	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 22:34	52401	GRPA_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/29/2024 22:34	46003	BERW_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/29/2024 22:34	46004	BERW_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
5/29/2024 22:34	44505	HAMI_T2	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
5/29/2024 22:34	52402	GRPA_T2	3	4	1	0.63	0.65	0.02	0	0	0	0	0	0	0	0
5/29/2024 22:34	20403	ASHF_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
5/29/2024 22:34	40101	HUNT_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
5/29/2024 22:34	20401	ASHF_T2	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
5/29/2024 22:34	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 22:34	52404	GRPA_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
5/29/2024 22:34	44502	HAMI_T2	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
5/29/2024 22:34	44201	POIN_T1	111	116	5	0.18	0.19	0.01	-2.32	-2.27	2	2	0	2100	2100	0
5/29/2024 22:35	42802	SELI_T1	0	0	0	0	0	0	-0.98	-0.55	1	1	0	900	900	0
5/29/2024 22:35	58001	WCAR_T1	7	9	2	1.06	0.91	-0.15	0	0	0	0	0	0	0	0
5/29/2024 22:35	43302	WATS_T2	4	4	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
5/29/2024 22:35	52402	GRPA_T2	3	4	1	0.63	0.65	0.02	-1.56	-1.62	0	0	0	0	0	0
5/29/2024 22:35	58003	WCAR_T1	50	59	9	0.23	0.28	0.05	0.59	0.62	0	0	0	0	0	0
5/29/2024 22:35	46803	HEPB_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/29/2024 22:35	46801	HEPB_T2	3	0	-3	0.67	0	-0.67	0.59	0.53	0	0	0	0	0	0
5/29/2024 22:35	52401	GRPA_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/29/2024 22:35	43301	WATS_T2	0	1	1	0	0.6	0.6	0	0	0	1	1	0	900	900
5/29/2024 22:35	52404	GRPA_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
5/29/2024 22:35	52403	GRPA_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
5/29/2024 22:36	53903	HALI_T2	2	2	0	0.6	0.9	0.3	-0.2	-0.21	0	0	0	0	0	0
5/29/2024 22:36	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 22:36	43103	SMIL_T2	21	20	-1	0.48	0.54	0.06	-0.98	-0.98	0	0	0	0	0	0
5/29/2024 22:36	53902	HALI_T2	1	1	0	4.9	5	0.1	-0.26	-0.25	0	0	0	0	0	0
5/29/2024 22:36	43102	SMIL_T2	6	7	1	0.48	0.29	-0.19	0	0	0	0	0	0	0	0
5/29/2024 22:37	42903	MIDD_T2	2	2	0	2	2.25	0.25	0	0	0	0	0	0	0	0
5/29/2024 22:37	42901	MIDD_T2	1	53	52	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/29/2024 22:37	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/29/2024 22:37	42902	MIDD_T2	27	41	14	0.3	0.35	0.05	-0.23	-0.24	0	0	0	0	0	0
5/29/2024 22:38	47401	PENS_T1	0	0	0	0	0	0	0.8	0.82	0	0	0	0	0	0
5/29/2024 22:38	58001	WCAR_T1	7	9	2	1.06	0.91	-0.15	0	0	0	0	0	0	0	0
5/29/2024 22:38	43301	WATS_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/29/2024 22:38	41902	REED_T1	0	0	0	0	0	0	1.03	1.05	0	0	0	0	0	0
5/29/2024 22:38	43302	WATS_T2	4	4	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
5/29/2024 22:38	45602	WOOL_T1	1	0	-1	0.1	0	-0.1	0.6	0.53	0	0	0	0	0	0
5/29/2024 22:38	56802	BENV_T2	11	82	71	0.2	0.18	-0.02	-1.4	-1.4	0	0	0	0	0	0
5/29/2024 22:38	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 22:38	41901	REED_T1	4	7	3	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
5/29/2024 22:38	58003	WCAR_T1	50	59	9	0.23	0.28	0.05	0.62	0.6	0	0	0	0	0	0
5/29/2024 22:39	49803	UNIV_T1	0	0	0	0	0	0	-1.21	0.1	0	0	0	0	0	0
5/29/2024 22:39	46206	DANV_T2	13	13	0	3.77	4.02	0.25	4.21	4.14	3	3	0	3600	3600	0
5/29/2024 22:39	47802	MOCA_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
5/29/2024 22:39	58402	MORO_T1	0	0	0	0	0	0	-0.37	-0.4	2	2	0	1500	1500	0
5/29/2024 22:40	46504	LOHA_T1	2	2	0	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
5/29/2024 22:40	46506	LOHA_T1	8	1	-7	0.26	0.4	0.14	0	0	0	0	0	0	0	0
5/29/2024 22:40	42802	SELI_T1	0	0	0	0	0	0	-0.55	-0.05	1	0	-1	900	0	-900
5/29/2024 22:40	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
5/29/2024 22:42	67605	WARW_T1	14	14	0	0.3	0.56	0.26	-1.22	-1.21	0	0	0	0	0	0
5/29/2024 22:43	44201	POIN_T1	111	116	5	0.18	0.19	0.01	-2.27	-2.28	2	2	0	2100	2100	0
5/29/2024 22:44	61802	EELI_T2	0	0	0	0	0	0	-0.55	-0.64	0	0	0	0	0	0
5/29/2024 22:48	67605	WARW_T1	12	21	9	0.32	0.6	0.28	-1.22	-1.21	0	0	0	0	0	0
5/29/2024 22:48	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
5/29/2024 22:48	52202	DEVO_T2	0	0	0	0	0	0	-0.73	-0.8	0	0	0	0	0	0
5/29/2024 22:48	13502	MCMI_T1	0	9	9	0	0.13	0.13	0	0	0	0	0	0	0	0
5/29/2024 22:50	52202	DEVO_T2	0	0	0	0	0	0	-0.73	-0.8	0	0	0	0	0	0
5/29/2024 22:51	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2024 22:53	56802	BENV_T2	38	153	115	0.16	0.25	0.09	-1.4	-1.38	0	0	0	0	0	0
5/29/2024 23:01	52202	DEVO_T2	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
5/29/2024 23:02	67502	WEWI_T2	21	253	232	0.15	0.22	0.07	-0.5	-0.47	0	0	0	0	0	0
5/29/2024 23:03	65205	PRIN_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
5/29/2024 23:04	24103	EHAZ_T1	0	0	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
5/29/2024 23:04	24105	EHAZ_T1	4	4	0	5.63	6.1	0.47	0	0	0	0	0	0	0	0
5/29/2024 23:08	41902	REED_T1	0	0	0	0	0	0	1.01	1.01	0	0	0	0	0	0
5/29/2024 23:08	41901	REED_T1	4	8	4	0.18	0.19	0.01	0	0	0	0	0	0	0	0
5/29/2024 23:18	52404	GRPA_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
5/29/2024 23:18	52403	GRPA_T2	2	12	10	0.2	0.29	0.09	-0.03	-0.05	0	0	0	0	0	0
5/29/2024 23:18	52402	GRPA_T2	4	6	2	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
5/29/2024 23:18	52401	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/29/2024 23:21	10903	COOP_T2	54	106	52	0.15	0.25	0.1	0	0	0	0	0	0	0	0
5/29/2024 23:21	10901	COOP_T2	0	0	0	0	0	0	0.72	0.69	0	0	0	0	0	0
5/29/2024 23:25	15703	TANN_T2	4	4	0	1.23	1.23	0	0	0	0	0	0	0	0	0
5/29/2024 23:25	15702	TANN_T2	64	68	4	0.19	0.19	0	-0.51	-0.48	0	0	0	0	0	0
5/29/2024 23:35	42902	MIDD_T2	62	86	24	0.46	0.45	-0.01	-0.28	-0.32	0	0	0	0	0	0
5/29/2024 23:35	42901	MIDD_T2	172	208	36	0.26	0.3	0.04	0	0	0	0	0	0	0	0
5/29/2024 23:35	42903	MIDD_T2	8	16	8	0.81	0.48	-0.33	0	0	0	0	0	0	0	0
5/29/2024 23:37	42501	ALTA_T2	0	0	0	0	0	0	0.06	0.05	1	1	0	600	600	0
5/29/2024 23:43	54203	PENN_T1	5	18	13	0.54	0.29	-0.25	0.66	0.65	0	0	0	0	0	0
5/29/2024 23:43	54201	PENN_T1	3	3	0	0.63	0.87	0.24	0	0	0	0	0	0	0	0
5/29/2024 23:46	67602	WARW_T2	0	0	0	0	0	0	0.01	0.03	1	1	0	1200	1200	0
5/29/2024 23:47	59101	WALK_T2	280	286	6	0.58	0.58	0	-0.75	-0.72	0	0	0	0	0	0
5/29/2024 23:47	59102	WALK_T2	30	22	-8	0.14	0.14	0	0	0	0	0	0	0	0	0
5/29/2024 23:48	63804	HEMP_T1	1	1	0	5	5.2	0.2	-0.51	-0.5	0	0	0	0	0	0
5/30/2024 0:13	22904	HARW_T1	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
5/30/2024 0:16	67602	WARW_T2	0	0	0	0	0	0	0.01	0.01	1	1	0	1200	1200	0
5/30/2024 0:17	62602	ENGL_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
5/30/2024 0:17	62605	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/30/2024 0:22	47401	PENS_T1	7	3	-4	0.13	0.1	-0.03	0.71	0.75	0	0	0	0	0	0
5/30/2024 0:22	47402	PENS_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/30/2024 0:28	65402	MAHI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/30/2024 0:36	15702	TANN_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
5/30/2024 0:36	15703	TANN_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
5/30/2024 0:47	40101	HUNT_T2	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
5/30/2024 0:47	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 0:51	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 0:58	59301	MCAL_T1	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
5/30/2024 0:58	59302	MCAL_T1	1	1	0	0.6	0.8	0.2	-0.4	-0.39	1	1	0	600	600	0
5/30/2024 0:59	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
5/30/2024 0:59	63802	HEMP_T1	0	0	0	0	0	0	0.04	0.08	0	0	0	0	0	0
5/30/2024 1:02	64101	REFR_T1	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
5/30/2024 1:38	60803	BUCK_T1	30	35	5	0.37	0.39	0.02	0	0	0	0	0	0	0	0
5/30/2024 1:38	60801	BUCK_T1	186	193	7	0.46	0.55	0.09	-0.24	-0.27	0	0	0	0	0	0
5/30/2024 1:38	58102	NEKI_T1	0	1	1	0	0.2	0.2	0.02	0.05	0	0	0	0	0	0
5/30/2024 1:54	52202	DEVO_T2	0	0	0	0	0	0	-0.9	-0.84	0	0	0	0	0	0
5/30/2024 2:09	65901	SAKR_T2	1	1	0	9.3	8.9	-0.4	-1.33	-1.38	1	1	0	900	900	0
5/30/2024 2:22	51004	NHAR_T1	12	13	1	0.97	1.2	0.23	0	0	0	0	0	0	0	0
5/30/2024 2:22	51002	NHAR_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
5/30/2024 2:22	51003	NHAR_T1	0	3	3	0	0.13	0.13	-1.83	-1.87	1	1	0	1200	1200	0
5/30/2024 2:28	60801	BUCK_T1	0	0	0	0	0	0	-0.48	-0.52	0	0	0	0	0	0
5/30/2024 2:28	64403	LAND_T1	0	0	0	0	0	0	-1.5	-1.48	1	1	0	900	900	0
5/30/2024 2:32	64101	REFR_T1	13	36	23	0.12	0.14	0.02	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 2:32	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/30/2024 2:34	67402	WAKE_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
5/30/2024 2:39	60803	BUCK_T1	0	0	0	0	0	0	-0.56	-0.57	1	1	0	600	600	0
5/30/2024 2:40	14603	SWHI_T1	0	0	0	0	0	0	-1.88	-1.9	2	2	0	1200	1200	0
5/30/2024 2:44	60803	BUCK_T1	0	0	0	0	0	0	-0.56	-0.57	1	1	0	600	600	0
5/30/2024 2:48	67502	WEWI_T2	0	0	0	0	0	0	-1.67	-1.69	1	1	0	900	900	0
5/30/2024 2:52	26401	INOR_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
5/30/2024 2:52	63304	GREE_T1	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
5/30/2024 2:52	26402	INOR_T1	11	12	1	0.19	0.19	0	0	0	0	0	0	0	0	0
5/30/2024 2:57	53903	HALI_T2	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
5/30/2024 2:57	53901	HALI_T2	1	1	0	0.8	0.8	0	-1.03	-1.03	0	0	0	0	0	0
5/30/2024 2:57	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
5/30/2024 3:00	46206	DANV_T2	13	13	0	1.28	1.31	0.03	1.76	1.76	1	1	0	1200	1200	0
5/30/2024 3:00	52403	GRPA_T2	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
5/30/2024 3:00	52402	GRPA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/30/2024 3:12	47402	PENS_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
5/30/2024 3:12	47401	PENS_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
5/30/2024 3:19	42002	MNVL_T2	1	1	0	2.8	2.6	-0.2	0	0	0	0	0	0	0	0
5/30/2024 3:19	42001	MNVL_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
5/30/2024 3:29	46002	BERW_T2	0	0	0	0	0	0	-2.22	-2.25	1	1	0	900	900	0
5/30/2024 3:53	42903	MIDD_T2	60	94	34	0.31	0.35	0.04	0	0	0	0	0	0	0	0
5/30/2024 3:53	42902	MIDD_T2	230	268	38	0.64	0.67	0.03	-0.47	-0.48	0	0	0	0	0	0
5/30/2024 3:53	42901	MIDD_T2	478	510	32	0.52	0.59	0.07	0	0	0	0	0	0	0	0
5/30/2024 3:59	45902	AUBU_T1	0	0	0	0	0	0	-0.86	-0.99	1	1	0	600	600	0
5/30/2024 4:00	57401	SPAN_T1	0	0	0	0	0	0	-0.94	-1.05	1	1	0	600	600	0
5/30/2024 4:00	57403	SPAN_T1	25	8	-17	0.2	0.11	-0.09	0	0	0	0	0	0	0	0
5/30/2024 4:16	65004	NEFF_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
5/30/2024 4:16	65001	NEFF_T2	7	0	-7	0.11	0	-0.11	0	0	0	0	0	0	0	0
5/30/2024 4:19	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
5/30/2024 4:19	21204	ECAR_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/30/2024 4:19	21206	ECAR_T2	1	1	0	8	8.2	0.2	0.64	0.66	0	0	0	0	0	0
5/30/2024 4:31	64101	REFR_T1	1	0	-1	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 4:35	22904	HARW_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
5/30/2024 4:58	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 5:20	67503	WEWI_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
5/30/2024 5:21	57401	SPAN_T1	0	0	0	0	0	0	-0.78	-0.81	1	1	0	600	600	0
5/30/2024 5:23	14403	SSLA_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
5/30/2024 5:23	14404	SSLA_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
5/30/2024 5:24	29402	BELT_T1	1	1	0	7.7	8	0.3	0	0	0	0	0	0	0	0
5/30/2024 5:24	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/30/2024 6:13	29402	BELT_T1	1	2	1	7.7	7.7	0	0	0	0	0	0	0	0	0
5/30/2024 6:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/30/2024 6:17	13704	SCHN_T2	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
5/30/2024 6:24	56801	BENV_T1	0	13	13	0	0.98	0.98	-0.86	-0.89	1	1	0	600	600	0
5/30/2024 6:24	56803	BENV_T1	1	1	0	2.4	0.5	-1.9	0	0	0	0	0	0	0	0
5/30/2024 6:32	13501	MCMI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 6:34	63804	HEMP_T1	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
5/30/2024 6:34	63802	HEMP_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
5/30/2024 6:36	67702	WERN_T2	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
5/30/2024 6:36	67703	WERN_T2	0	0	0	0	0	0	-0.99	-0.97	1	1	0	900	900	0
5/30/2024 6:37	67702	WERN_T2	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
5/30/2024 6:40	67703	WERN_T2	0	0	0	0	0	0	-0.97	-0.28	1	1	0	900	900	0
5/30/2024 6:41	29402	BELT_T1	1	1	0	7.1	8.1	1	0	0	0	0	0	0	0	0
5/30/2024 6:41	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/30/2024 6:48	24201	PROV_T3	1	1	0	6.6	6.1	-0.5	-1.52	-1.51	1	1	0	1200	1200	0
5/30/2024 6:48	24204	PROV_T3	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
5/30/2024 6:51	67503	WEWI_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
5/30/2024 6:53	67703	WERN_T2	0	0	0	0	0	0	-0.28	-0.27	1	1	0	900	900	0
5/30/2024 6:55	67703	WERN_T2	0	0	0	0	0	0	-0.28	-0.27	1	1	0	900	900	0
5/30/2024 7:04	64904	MILL_T1	0	0	0	0	0	0	-0.55	0.41	0	0	0	0	0	0
5/30/2024 7:04	62604	ENGL_T1	0	0	0	0	0	0	-0.35	0.31	1	0	-1	600	0	-600
5/30/2024 7:07	67002	STHI_T2	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
5/30/2024 7:08	67501	WEWI_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/30/2024 7:08	29402	BELT_T1	1	1	0	8.1	8	-0.1	0	0	0	0	0	0	0	0
5/30/2024 7:08	67504	WEWI_T1	0	0	0	0	0	0	0.59	0.63	1	0	-1	900	0	-900
5/30/2024 7:08	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/30/2024 7:09	67804	WLAN_T1	0	0	0	0	0	0	-1.16	-1.14	0	0	0	0	0	0
5/30/2024 7:10	56802	BENV_T2	1	3	2	0.2	0.47	0.27	-1.45	-1.48	0	0	0	0	0	0
5/30/2024 7:10	29402	BELT_T1	1	1	0	8.1	8	-0.1	0	0	0	0	0	0	0	0
5/30/2024 7:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/30/2024 7:11	29402	BELT_T1	1	1	0	8.1	8	-0.1	0	0	0	0	0	0	0	0
5/30/2024 7:11	56802	BENV_T2	1	3	2	0.2	0.47	0.27	-1.45	-1.48	0	0	0	0	0	0
5/30/2024 7:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/30/2024 7:13	54502	ENOL_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
5/30/2024 7:13	54501	ENOL_T2	0	0	0	0	0	0	-0.54	-0.53	1	1	0	600	600	0
5/30/2024 7:13	54505	ENOL_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/30/2024 7:21	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
5/30/2024 7:21	15702	TANN_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
5/30/2024 7:22	40301	TAMA_T3	1	1	0	0	0	0	0.68	0.8	1	1	0	1200	1200	0
5/30/2024 7:24	16503	STRO_T2	0	0	0	0	0	0	0.14	0.18	1	1	0	1200	1200	0
5/30/2024 7:25	57106	SPHI_T2	3	3	0	1	1.47	0.47	0	0	0	0	0	0	0	0
5/30/2024 7:25	57101	SPHI_T2	6	6	0	0.7	1.02	0.32	0	0	0	0	0	0	0	0
5/30/2024 7:25	57104	SPHI_T2	2	2	0	4.25	3.3	-0.95	-1.2	-1.15	1	1	0	900	900	0
5/30/2024 7:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 7:28	57403	SPAN_T1	0	14	14	0	0.18	0.18	0	0	0	0	0	0	0	0
5/30/2024 7:28	57401	SPAN_T1	0	0	0	0	0	0	-0.83	-0.82	1	1	0	600	600	0
5/30/2024 7:29	45501	DERR_T2	0	0	0	0	0	0	0.74	0.73	2	2	0	1800	1800	0
5/30/2024 7:34	12505	MITR_T2	0	0	0	0	0	0	1.99	1.97	0	0	0	0	0	0
5/30/2024 7:34	12502	MITR_T2	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
5/30/2024 7:35	50103	HARR_T3	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
5/30/2024 7:35	50107	HARR_T3	0	0	0	0	0	0	0.45	0.51	0	0	0	0	0	0
5/30/2024 7:35	50201	HARR_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 7:35	50105	HARR_T3	7	7	0	6.96	6	-0.96	0	0	0	0	0	0	0	0
5/30/2024 7:36	24204	PROV_T3	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
5/30/2024 7:36	40101	HUNT_T2	0	0	0	0	0	0	-0.55	-0.49	0	0	0	0	0	0
5/30/2024 7:36	24201	PROV_T3	1	1	0	6.3	6.4	0.1	-1.48	-0.16	1	0	-1	1200	0	-1200
5/30/2024 7:37	67703	WERN_T2	0	0	0	0	0	0	-0.27	-0.26	1	1	0	900	900	0
5/30/2024 7:37	15203	SFAR_T2	0	0	0	0	0	0	-1.29	-1.32	0	0	0	0	0	0
5/30/2024 7:37	46302	ROHR_T1	4	4	0	1.43	1.33	-0.1	0.15	0.14	0	0	0	0	0	0
5/30/2024 7:44	64702	LITI_T2	0	0	0	0	0	0	-1.18	-1.16	0	0	0	0	0	0
5/30/2024 7:45	56802	BENV_T2	1	11	10	0.9	0.33	-0.57	-1.48	-1.4	0	0	0	0	0	0
5/30/2024 7:45	40101	HUNT_T2	0	0	0	0	0	0	-0.49	-0.34	0	0	0	0	0	0
5/30/2024 7:47	26401	INOR_T1	1	1	0	8.2	8.4	0.2	0	0	0	0	0	0	0	0
5/30/2024 7:47	26402	INOR_T1	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
5/30/2024 7:47	64702	LITI_T2	0	0	0	0	0	0	-0.59	-0.58	0	0	0	0	0	0
5/30/2024 7:47	13905	SEID_T1	0	1	1	0	0	0	0.26	0.33	0	0	0	0	0	0
5/30/2024 7:48	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	900	900	0
5/30/2024 7:50	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 7:50	56801	BENV_T1	11	16	5	0.85	0.81	-0.04	-0.89	-0.84	1	1	0	600	600	0
5/30/2024 7:50	14404	SSLA_T1	1	2	1	6.4	3.25	-3.15	0	0	0	0	0	0	0	0
5/30/2024 7:50	14403	SSLA_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
5/30/2024 7:50	67401	WAKE_T2	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
5/30/2024 7:50	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 7:51	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 7:51	55102	WERT_T2	0	0	0	0	0	0	-0.9	-0.84	2	2	0	1200	1200	0
5/30/2024 7:51	14404	SSLA_T1	1	2	1	6.4	3.25	-3.15	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 7:52	67605	WARW_T1	42	41	-1	0.69	0.64	-0.05	-1.1	-1.14	0	0	0	0	0	0
5/30/2024 7:52	59101	WALK_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
5/30/2024 7:52	54201	PENN_T1	211	314	103	0.4	0.46	0.06	0	0	0	0	0	0	0	0
5/30/2024 7:52	54205	PENN_T1	46	76	30	0.13	0.28	0.15	0	0	0	0	0	0	0	0
5/30/2024 7:52	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 7:52	14404	SSLA_T1	1	2	1	6.4	3.25	-3.15	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 7:52	20401	ASHF_T2	3	4	1	0.33	0.38	0.05	0	0	0	0	0	0	0	0
5/30/2024 7:52	54203	PENN_T1	72	303	231	0.42	0.28	-0.14	0.06	0.11	0	0	0	0	0	0
5/30/2024 7:52	20403	ASHF_T2	0	1	1	0	0.4	0.4	0.89	0.9	0	0	0	0	0	0
5/30/2024 7:53	15203	SFAR_T2	0	0	0	0	0	0	-1.32	-1.33	0	0	0	0	0	0
5/30/2024 7:53	67605	WARW_T1	42	41	-1	0.69	0.64	-0.05	-1.14	-1.1	0	0	0	0	0	0
5/30/2024 7:54	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 7:55	29401	BELT_T1	44	49	5	0.16	0.18	0.02	0	0	1	1	0	900	900	0
5/30/2024 7:55	67703	WERN_T2	0	0	0	0	0	0	-0.24	-0.24	1	1	0	900	900	0
5/30/2024 7:55	29402	BELT_T1	1	2	1	8.9	4.6	-4.3	0	0	0	0	0	0	0	0
5/30/2024 7:55	15204	SFAR_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
5/30/2024 7:56	26603	BROO_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
5/30/2024 7:57	26603	BROO_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
5/30/2024 7:57	41502	FAIR_T2	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
5/30/2024 7:58	67605	WARW_T1	42	41	-1	0.69	0.64	-0.05	-1.14	-1.1	0	0	0	0	0	0
5/30/2024 8:00	42102	FRAI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 8:00	15203	SFAR_T2	0	0	0	0	0	0	-1.33	-1.29	0	0	0	0	0	0
5/30/2024 8:02	44301	BEAV_T2	1	1	0	0.6	0.9	0.3	0.76	0.83	2	2	0	1500	1500	0
5/30/2024 8:03	15203	SFAR_T2	0	0	0	0	0	0	-1.33	-1.29	0	0	0	0	0	0
5/30/2024 8:03	14203	EALL_T1	0	0	0	0	0	0	-0.22	-0.19	1	1	0	1200	1200	0
5/30/2024 8:04	65702	RVIL_T2	0	0	0	0	0	0	-1.91	-1.91	2	2	0	1200	1200	0
5/30/2024 8:06	66703	STRA_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
5/30/2024 8:06	57401	SPAN_T1	0	3	3	0	0.23	0.23	-0.88	-0.94	1	1	0	600	600	0
5/30/2024 8:06	57403	SPAN_T1	18	43	25	0.24	0.32	0.08	0	0	0	0	0	0	0	0
5/30/2024 8:07	42102	FRAI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 8:08	57101	SPHI_T2	6	6	0	0.85	0.77	-0.08	0	0	0	0	0	0	0	0
5/30/2024 8:08	20403	ASHF_T2	1	1	0	0.4	0.3	-0.1	1.07	1.14	0	0	0	0	0	0
5/30/2024 8:08	57103	SPHI_T2	0	0	0	0	0	0	-0.31	-0.34	1	1	0	600	600	0
5/30/2024 8:08	57104	SPHI_T2	1	2	1	3.6	0.7	-2.9	0	0	0	0	0	0	0	0
5/30/2024 8:08	20401	ASHF_T2	4	3	-1	0.38	0.43	0.05	0	0	0	0	0	0	0	0
5/30/2024 8:08	67702	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
5/30/2024 8:08	57106	SPHI_T2	3	3	0	1.43	1.3	-0.13	0	0	0	0	0	0	0	0
5/30/2024 8:09	67703	WERN_T2	0	0	0	0	0	0	-0.24	-0.25	1	1	0	900	900	0
5/30/2024 8:09	57401	SPAN_T1	0	3	3	0	0.23	0.23	-0.94	-0.88	1	1	0	600	600	0
5/30/2024 8:09	57403	SPAN_T1	18	43	25	0.24	0.32	0.08	0	0	0	0	0	0	0	0
5/30/2024 8:09	66703	STRA_T1	0	0	0	0	0	0	-0.12	-0.07	0	0	0	0	0	0
5/30/2024 8:10	45501	DERR_T2	0	1	1	0	0.1	0.1	0.75	0.77	2	2	0	1800	1800	0
5/30/2024 8:11	40201	BEGA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 8:12	21203	ECAR_T1	0	0	0	0	0	0	0.69	0.75	0	0	0	0	0	0
5/30/2024 8:12	56802	BENV_T2	1	385	384	1	0.41	-0.59	-1.42	-1.38	0	0	0	0	0	0
5/30/2024 8:12	61703	ELIZ_T1	0	2	2	0	0.2	0.2	-7.68	-7.59	6	6	0	6300	6300	0
5/30/2024 8:12	61701	ELIZ_T1	1	2	1	5	2.9	-2.1	0	0	0	0	0	0	0	0
5/30/2024 8:14	67501	WEWI_T1	2	4	2	0.45	0.45	0	-0.57	-0.49	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/30/2024 8:14	40201	BEGA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 8:14	29401	BELT_T1	49	27	-22	0.18	0.14	-0.04	0	0	1	1	0	900	900	0
5/30/2024 8:14	67505	WEWI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/30/2024 8:14	29402	BELT_T1	2	1	-1	4.6	8.8	4.2	0	0	0	0	0	0	0	0
5/30/2024 8:17	41801	GOCI_T2	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0	0
5/30/2024 8:17	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 8:20	46302	ROHR_T1	4	4	0	1.75	2.08	0.33	0.14	0.1	0	0	0	0	0	0
5/30/2024 8:21	67503	WEWI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/30/2024 8:21	67502	WEWI_T2	2	79	77	0.35	0.18	-0.17	-0.26	-0.29	0	0	0	0	0	0
5/30/2024 8:22	67503	WEWI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/30/2024 8:22	67502	WEWI_T2	2	79	77	0.35	0.18	-0.17	-0.26	-0.29	0	0	0	0	0	0
5/30/2024 8:23	52202	DEVO_T2	0	0	0	0	0	0	-1.39	-1.45	0	0	0	0	0	0
5/30/2024 8:24	24801	VALM_T1	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
5/30/2024 8:24	29401	BELT_T1	10	29	19	0.11	0.16	0.05	0	0	0	0	0	0	0	0
5/30/2024 8:24	29402	BELT_T1	1	2	1	8.8	4.45	-4.35	0	0	0	0	0	0	0	0
5/30/2024 8:24	58006	WCAR_T2	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
5/30/2024 8:25	29402	BELT_T1	1	2	1	8.8	4.45	-4.35	0	0	0	0	0	0	0	0
5/30/2024 8:25	29401	BELT_T1	10	29	19	0.11	0.16	0.05	0	0	0	0	0	0	0	0
5/30/2024 8:25	24702	FLND_T2	1	4	3	0.8	0.18	-0.62	1.27	1.18	1	1	0	1200	1200	0
5/30/2024 8:26	51604	DUKE_T2	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
5/30/2024 8:26	67502	WEWI_T2	2	79	77	0.35	0.18	-0.17	-0.29	-0.32	0	0	0	0	0	0
5/30/2024 8:26	40802	EXCH_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/30/2024 8:26	67503	WEWI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/30/2024 8:26	40801	EXCH_T2	0	0	0	0	0	0	-0.58	-0.57	1	1	0	1200	1200	0
5/30/2024 8:26	62605	ENGL_T1	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
5/30/2024 8:26	56802	BENV_T2	11	695	684	0.33	0.36	0.03	-5.52	-5.44	0	0	0	0	0	0
5/30/2024 8:27	67501	WEWI_T1	4	4	0	0.35	0.73	0.38	0	0	0	0	0	0	0	0
5/30/2024 8:27	67504	WEWI_T1	0	0	0	0	0	0	0.74	0.73	0	0	0	0	0	0
5/30/2024 8:27	67505	WEWI_T1	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
5/30/2024 8:27	51604	DUKE_T2	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
5/30/2024 8:28	51604	DUKE_T2	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
5/30/2024 8:28	56802	BENV_T2	11	695	684	0.33	0.36	0.03	-4.14	-4.08	0	0	0	0	0	0
5/30/2024 8:28	62605	ENGL_T1	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
5/30/2024 8:29	56802	BENV_T2	11	695	684	0.33	0.36	0.03	-1.38	-1.36	0	0	0	0	0	0
5/30/2024 8:29	46801	HEPB_T2	2	2	0	0.9	0.85	-0.05	0.58	0.6	0	0	0	0	0	0
5/30/2024 8:30	52403	GRPA_T2	1	13	12	0.3	0.22	-0.08	0.15	0.17	0	0	0	0	0	0
5/30/2024 8:30	22905	HARW_T1	0	0	0	0	0	0	-0.79	-0.76	0	0	0	0	0	0
5/30/2024 8:30	52401	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/30/2024 8:30	52402	GRPA_T2	4	5	1	0.23	0.5	0.27	0	0	0	0	0	0	0	0
5/30/2024 8:30	61803	EELI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/30/2024 8:30	61801	EELI_T2	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
5/30/2024 8:31	46506	LOHA_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/30/2024 8:31	46504	LOHA_T1	2	2	0	0.95	1	0.05	0	0	0	0	0	0	0	0
5/30/2024 8:31	46505	LOHA_T1	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
5/30/2024 8:32	13503	MCMI_T2	1	1	0	0.3	0.5	0.2	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 8:32	55002	NEWP_T1	11	14	3	0.89	0.8	-0.09	-0.23	-0.19	0	0	0	0	0	0
5/30/2024 8:32	55001	NEWP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 8:33	67502	WEWI_T2	4	109	105	0.3	0.2	-0.1	-0.29	-0.32	0	0	0	0	0	0
5/30/2024 8:33	67503	WEWI_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/30/2024 8:34	65603	QVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 8:34	65604	QVIL_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
5/30/2024 8:35	14404	SSLA_T1	4	4	0	1.65	1.68	0.03	0	0	0	0	0	0	0	0
5/30/2024 8:35	14401	SSLA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 8:35	14403	SSLA_T1	0	1	1	0	0.2	0.2	0.67	0.68	0	0	0	0	0	0
5/30/2024 8:35	16702	MACK_T1	0	1	1	0	0.2	0.2	-1.08	-1.08	0	0	0	0	0	0
5/30/2024 8:35	55001	NEWP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 8:35	55002	NEWP_T1	11	14	3	0.89	0.8	-0.09	-0.23	-0.19	0	0	0	0	0	0
5/30/2024 8:36	66703	STRA_T1	0	3	3	0	0.27	0.27	-0.07	-0.09	0	0	0	0	0	0
5/30/2024 8:36	55002	NEWP_T1	11	14	3	0.89	0.8	-0.09	-0.46	-0.38	0	0	0	0	0	0
5/30/2024 8:36	66701	STRA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 8:36	55001	NEWP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 8:36	13302	ORVI_T2	1	1	0	0.7	0.8	0.1	1.43	1.44	0	0	0	0	0	0
5/30/2024 8:37	67503	WEWI_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/30/2024 8:37	67402	WAKE_T2	0	0	0	0	0	0	0.94	1.1	0	0	0	0	0	0
5/30/2024 8:37	67502	WEWI_T2	4	109	105	0.3	0.2	-0.1	-0.29	-0.32	0	0	0	0	0	0
5/30/2024 8:40	15001	BLMO_T1	4	5	1	0.2	0.24	0.04	0	0	0	0	0	0	0	0
5/30/2024 8:40	29401	BELT_T1	27	20	-7	0.14	0.17	0.03	0	0	3	3	0	2700	2700	0
5/30/2024 8:40	61803	EELI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/30/2024 8:40	29402	BELT_T1	1	2	1	8.6	4.45	-4.15	0	0	0	0	0	0	0	0
5/30/2024 8:40	61801	EELI_T2	0	0	0	0	0	0	-0.06	-0.03	0	0	0	0	0	0
5/30/2024 8:40	46001	BERW_T1	0	0	0	0	0	0	1.18	1.68	0	0	0	0	0	0
5/30/2024 8:41	10707	CATA_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
5/30/2024 8:41	43704	WILL_T1	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
5/30/2024 8:41	43705	WILL_T1	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
5/30/2024 8:41	15001	BLMO_T1	4	5	1	0.2	0.24	0.04	0	0	0	0	0	0	0	0
5/30/2024 8:41	43701	WILL_T1	0	0	0	0	0	0	0.24	0.15	0	0	0	0	0	0
5/30/2024 8:41	10705	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 8:41	10702	CATA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/30/2024 8:41	10701	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 8:43	61701	ELIZ_T1	2	2	0	2.8	2.8	0	0	0	0	0	0	0	0	0
5/30/2024 8:43	62605	ENGL_T1	0	0	0	0	0	0	-0.74	-0.69	0	0	0	0	0	0
5/30/2024 8:43	61703	ELIZ_T1	2	11	9	0.2	0.26	0.06	-2.56	-2.42	2	2	0	2100	2100	0
5/30/2024 8:44	62607	ENGL_T1	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
5/30/2024 8:46	11507	FREE_T2	0	0	0	0	0	0	1.21	1.21	0	0	0	0	0	0
5/30/2024 8:50	63401	HONY_T1	0	0	0	0	0	0	0.27	0.24	1	1	0	600	600	0
5/30/2024 8:51	43301	WATS_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/30/2024 8:51	60502	NMAN_T2	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
5/30/2024 8:51	57403	SPAN_T1	90	109	19	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
5/30/2024 8:51	57401	SPAN_T1	4	4	0	0.38	0.4	0.02	-0.96	-0.9	1	1	0	600	600	0
5/30/2024 8:51	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 8:51	60501	NMAN_T2	3	3	0	4.1	4.93	0.83	0	0	0	0	0	0	0	0
5/30/2024 8:52	57403	SPAN_T1	90	109	19	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
5/30/2024 8:52	13704	SCHN_T2	1	1	0	0.2	0.3	0.1	-0.56	-0.52	0	0	0	0	0	0
5/30/2024 8:52	43301	WATS_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/30/2024 8:52	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 8:52	57401	SPAN_T1	4	4	0	0.38	0.4	0.02	-0.96	-0.9	1	1	0	600	600	0
5/30/2024 8:52	67502	WEWI_T2	79	105	26	0.18	0.2	0.02	0	0	0	0	0	0	0	0
5/30/2024 8:52	67503	WEWI_T2	2	3	1	0.15	0.2	0.05	-0.23	-0.22	0	0	0	0	0	0
5/30/2024 8:53	57403	SPAN_T1	90	109	19	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
5/30/2024 8:53	57401	SPAN_T1	4	4	0	0.38	0.4	0.02	-0.9	-0.76	1	1	0	600	600	0
5/30/2024 8:54	57401	SPAN_T1	4	4	0	0.38	0.4	0.02	-0.9	-0.76	1	1	0	600	600	0
5/30/2024 8:54	50701	SMEC_T1	4	5	1	0.15	0.48	0.33	-0.93	-0.93	0	0	0	0	0	0
5/30/2024 8:54	13704	SCHN_T2	1	1	0	0.2	0.3	0.1	-0.26	-0.26	0	0	0	0	0	0
5/30/2024 8:54	57403	SPAN_T1	90	109	19	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
5/30/2024 8:55	57403	SPAN_T1	90	109	19	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
5/30/2024 8:55	10805	CHHI_T2	1	2	1	8.8	5.2	-3.6	-0.78	-0.73	1	1	0	600	600	0
5/30/2024 8:55	57401	SPAN_T1	4	4	0	0.38	0.4	0.02	-0.9	-0.76	1	1	0	600	600	0
5/30/2024 8:56	67502	WEWI_T2	79	105	26	0.18	0.2	0.02	0	0	0	0	0	0	0	0
5/30/2024 8:56	67503	WEWI_T2	2	3	1	0.15	0.2	0.05	-0.22	-0.23	0	0	0	0	0	0
5/30/2024 8:59	63401	HONY_T1	0	0	0	0	0	0	0.24	0.38	1	1	0	600	600	0
5/30/2024 8:59	14205	EALL_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
5/30/2024 9:02	56601	HAMP_T1	2	6	4	0.1	0.28	0.18	-1.78	-1.57	0	0	0	0	0	0
5/30/2024 9:03	51604	DUKE_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
5/30/2024 9:03	25402	LAHA_T2	1	33	32	0.1	0.4	0.3	-0.61	-0.57	0	0	0	0	0	0
5/30/2024 9:03	67402	WAKE_T2	0	0	0	0	0	0	1.11	1.11	0	0	0	0	0	0
5/30/2024 9:04	52006	LING_T2	2	2	0	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
5/30/2024 9:04	52004	LING_T2	2	5	3	0.45	0.54	0.09	0.35	0.32	0	0	0	0	0	0
5/30/2024 9:04	52002	LING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 9:04	56601	HAMP_T1	2	6	4	0.1	0.28	0.18	-1.78	-1.57	0	0	0	0	0	0
5/30/2024 9:05	63401	HONY_T1	0	0	0	0	0	0	0.24	0.38	1	1	0	600	600	0
5/30/2024 9:06	59102	WALK_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/30/2024 9:06	67605	WARW_T1	34	42	8	0.69	0.62	-0.07	-1.05	-1	0	0	0	0	0	0
5/30/2024 9:06	14602	SWHI_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
5/30/2024 9:06	17002	RIRO_T2	10	11	1	0.47	0.52	0.05	0.68	0.6	0	0	0	0	0	0
5/30/2024 9:06	67603	WARW_T1	0	1	1	0	0.2	0.2	0.03	0.04	0	0	0	0	0	0
5/30/2024 9:06	63401	HONY_T1	0	0	0	0	0	0	0.24	0.38	1	1	0	600	600	0
5/30/2024 9:06	44601	SALE_T2	0	0	0	0	0	0	0.63	1.15	1	1	0	600	600	0
5/30/2024 9:06	14601	SWHI_T1	1	7	6	0.1	0.21	0.11	-0.77	-0.81	0	0	0	0	0	0
5/30/2024 9:06	14603	SWHI_T1	8	6	-2	0.28	0.43	0.15	0	0	0	0	0	0	0	0
5/30/2024 9:06	59101	WALK_T2	26	58	32	0.14	0.46	0.32	0.13	-0.12	0	0	0	0	0	0
5/30/2024 9:06	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
5/30/2024 9:07	59102	WALK_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/30/2024 9:07	67604	WARW_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
5/30/2024 9:07	67703	WERN_T2	0	0	0	0	0	0	-0.24	-0.2	1	1	0	900	900	0
5/30/2024 9:07	67605	WARW_T1	34	42	8	0.69	0.62	-0.07	0	0	0	0	0	0	0	0
5/30/2024 9:07	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 9:07	59101	WALK_T2	26	58	32	0.14	0.46	0.32	0.13	-0.12	0	0	0	0	0	0
5/30/2024 9:08	44601	SALE_T2	0	0	0	0	0	0	0.63	1.15	1	1	0	600	600	0
5/30/2024 9:09	67503	WEWI_T2	3	3	0	0.17	0.3	0.13	0	0	0	0	0	0	0	0
5/30/2024 9:09	66502	SMAN_T2	2	2	0	0.5	0.45	-0.05	0.4	0.41	0	0	0	0	0	0
5/30/2024 9:09	67402	WAKE_T2	0	0	0	0	0	0	1.11	1.09	0	0	0	0	0	0
5/30/2024 9:09	67502	WEWI_T2	104	115	11	0.2	0.21	0.01	-0.22	-0.2	0	0	0	0	0	0
5/30/2024 9:10	45501	DERR_T2	1	1	0	0.1	0.2	0.1	0.82	0.78	2	2	0	1800	1800	0
5/30/2024 9:10	20403	ASHF_T2	1	2	1	0.1	0.3	0.2	1.18	1.14	0	0	0	0	0	0
5/30/2024 9:10	67604	WARW_T1	0	0	0	0	0	0	0.05	0.28	0	0	0	0	0	0
5/30/2024 9:10	67603	WARW_T1	0	1	1	0	0.2	0.2	0.12	0.12	0	0	0	0	0	0
5/30/2024 9:10	56803	BENV_T1	3	5	2	0.23	0.56	0.33	-0.18	-0.24	0	0	0	0	0	0
5/30/2024 9:10	67605	WARW_T1	34	42	8	0.69	0.62	-0.07	0	0	0	0	0	0	0	0
5/30/2024 9:10	20401	ASHF_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/30/2024 9:10	56801	BENV_T1	28	26	-2	0.78	0.78	0	0	0	0	0	0	0	0	0
5/30/2024 9:11	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 9:11	67703	WERN_T2	0	0	0	0	0	0	-0.2	-0.2	1	1	0	900	900	0
5/30/2024 9:11	45501	DERR_T2	1	1	0	0.1	0.2	0.1	0.82	0.78	2	2	0	1800	1800	0
5/30/2024 9:11	44301	BEAV_T2	0	2	2	0	0.15	0.15	0.22	0.63	2	2	0	1500	1500	0
5/30/2024 9:11	67605	WARW_T1	34	42	8	0.69	0.62	-0.07	-2	-2.02	0	0	0	0	0	0
5/30/2024 9:12	56803	BENV_T1	3	5	2	0.23	0.56	0.33	-0.27	-0.36	0	0	0	0	0	0
5/30/2024 9:12	56801	BENV_T1	28	26	-2	0.78	0.78	0	0	0	0	0	0	0	0	0
5/30/2024 9:13	57106	SPHI_T2	3	3	0	0.83	1.27	0.44	0	0	0	0	0	0	0	0
5/30/2024 9:13	56801	BENV_T1	28	26	-2	0.78	0.78	0	0	0	0	0	0	0	0	0
5/30/2024 9:13	20403	ASHF_T2	1	2	1	0.1	0.3	0.2	1.18	1.14	0	0	0	0	0	0
5/30/2024 9:13	45501	DERR_T2	1	1	0	0.1	0.2	0.1	0.82	0.78	2	2	0	1800	1800	0
5/30/2024 9:13	44301	BEAV_T2	0	2	2	0	0.15	0.15	0.44	1.26	4	4	0	3000	3000	0
5/30/2024 9:13	57104	SPHI_T2	2	3	1	1.85	0.65	-1.2	0.01	0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/30/2024 9:13	20401	ASHF_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/30/2024 9:13	56803	BENV_T1	3	5	2	0.23	0.56	0.33	-0.09	-0.12	0	0	0	0	0	0
5/30/2024 9:13	57101	SPHI_T2	6	6	0	0.78	0.8	0.02	0	0	0	0	0	0	0	0
5/30/2024 9:13	60803	BUCK_T1	8	10	2	0.16	0.24	0.08	0	0	0	0	0	0	0	0
5/30/2024 9:13	60801	BUCK_T1	3	5	2	0.17	0.3	0.13	-0.04	0.06	0	0	0	0	0	0
5/30/2024 9:14	56803	BENV_T1	3	5	2	0.23	0.56	0.33	-0.09	-0.12	0	0	0	0	0	0
5/30/2024 9:14	20601	GRWO_T2	0	0	0	0	0	0	1.1	1.05	0	0	0	0	0	0
5/30/2024 9:14	56801	BENV_T1	28	26	-2	0.78	0.78	0	0	0	0	0	0	0	0	0
5/30/2024 9:15	56801	BENV_T1	25	17	-8	0.76	0.8	0.04	0	0	0	0	0	0	0	0
5/30/2024 9:15	56803	BENV_T1	2	7	5	0.5	0.5	0	-0.09	-0.12	0	0	0	0	0	0
5/30/2024 9:17	26401	INOR_T1	1	2	1	7.1	4.1	-3	0.87	0.68	0	0	0	0	0	0
5/30/2024 9:17	58402	MORO_T1	0	0	0	0	0	0	0	0.04	2	2	0	1500	1500	0
5/30/2024 9:17	26703	HEML_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	600	600	0
5/30/2024 9:17	58302	NOTT_T1	0	3	3	0	0.17	0.17	-0.3	-0.32	1	1	0	1200	1200	0
5/30/2024 9:20	57104	SPHI_T2	3	2	-1	1.37	0.55	-0.82	0	0	0	0	0	0	0	0
5/30/2024 9:20	13901	SEID_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
5/30/2024 9:20	52501	PROG_T1	0	2	2	0	0.1	0.1	0.6	0.58	1	1	0	300	300	0
5/30/2024 9:20	57103	SPHI_T2	0	0	0	0	0	0	-0.28	-0.3	1	1	0	600	600	0
5/30/2024 9:20	57106	SPHI_T2	3	3	0	1.23	1.47	0.24	0	0	0	0	0	0	0	0
5/30/2024 9:20	13704	SCHN_T2	1	1	0	0.3	0.6	0.3	-0.26	-0.25	0	0	0	0	0	0
5/30/2024 9:20	13902	SEID_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 9:20	57101	SPHI_T2	6	6	0	0.43	0.8	0.37	0	0	0	0	0	0	0	0
5/30/2024 9:23	57104	SPHI_T2	3	2	-1	1.37	0.55	-0.82	0	0	0	0	0	0	0	0
5/30/2024 9:23	67703	WERN_T2	0	0	0	0	0	0	-0.2	-0.17	1	1	0	900	900	0
5/30/2024 9:23	57106	SPHI_T2	3	3	0	1.23	1.47	0.24	0	0	0	0	0	0	0	0
5/30/2024 9:23	57403	SPAN_T1	30	146	116	0.22	0.31	0.09	0.06	0.09	0	0	0	0	0	0
5/30/2024 9:23	57401	SPAN_T1	4	5	1	0.78	2.4	1.62	0	0	0	0	0	0	0	0
5/30/2024 9:23	57101	SPHI_T2	6	6	0	0.43	0.8	0.37	0.34	0.35	0	0	0	0	0	0
5/30/2024 9:23	15703	TANN_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
5/30/2024 9:23	15702	TANN_T2	1	6	5	0.2	0.43	0.23	-0.38	-0.41	0	0	0	0	0	0
5/30/2024 9:24	57101	SPHI_T2	6	6	0	0.43	0.8	0.37	0.34	0.35	0	0	0	0	0	0
5/30/2024 9:24	58001	WCAR_T1	4	7	3	1.35	1.04	-0.31	0	0	0	0	0	0	0	0
5/30/2024 9:24	67204	TEHI_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
5/30/2024 9:24	57104	SPHI_T2	3	2	-1	1.37	0.55	-0.82	0	0	0	0	0	0	0	0
5/30/2024 9:24	57106	SPHI_T2	3	3	0	1.23	1.47	0.24	0	0	0	0	0	0	0	0
5/30/2024 9:24	29402	BELT_T1	2	3	1	4.65	2.97	-1.68	0	0	0	0	0	0	0	0
5/30/2024 9:24	58003	WCAR_T1	9	44	35	0.41	0.28	-0.13	0.94	0.91	0	0	0	0	0	0
5/30/2024 9:24	29401	BELT_T1	29	22	-7	0.2	0.2	0	0	0	1	1	0	900	900	0
5/30/2024 9:26	61703	ELIZ_T1	0	5	5	0	0.22	0.22	-2.42	-2.42	2	2	0	2100	2100	0
5/30/2024 9:26	61701	ELIZ_T1	2	2	0	2.15	3.25	1.1	0	0	0	0	0	0	0	0
5/30/2024 9:26	58003	WCAR_T1	9	44	35	0.41	0.28	-0.13	0.94	0.91	0	0	0	0	0	0
5/30/2024 9:26	58001	WCAR_T1	4	7	3	1.35	1.04	-0.31	0	0	0	0	0	0	0	0
5/30/2024 9:29	17804	GILB_T2	2	7	5	0.75	0.31	-0.44	-0.58	-0.58	0	0	0	0	0	0
5/30/2024 9:29	17805	GILB_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/30/2024 9:31	52006	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 9:31	52402	GRPA_T2	5	10	5	0.24	0.41	0.17	0	0	0	0	0	0	0	0
5/30/2024 9:31	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 9:31	13503	MCMI_T2	2	10	8	0.55	0.51	-0.04	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 9:31	52002	LING_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/30/2024 9:31	52004	LING_T2	5	5	0	0.54	0.94	0.4	0.37	0.37	0	0	0	0	0	0
5/30/2024 9:31	52403	GRPA_T2	4	7	3	0.35	0.51	0.16	0.16	0.16	0	0	0	0	0	0
5/30/2024 9:32	43201	MVIL_T2	0	1	1	0	0.2	0.2	-0.39	-0.39	0	0	0	0	0	0
5/30/2024 9:34	13503	MCMI_T2	2	10	8	0.55	0.51	-0.04	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 9:37	50701	SMEC_T1	8	9	1	0.58	0.52	-0.06	-0.91	-0.8	0	0	0	0	0	0
5/30/2024 9:38	49803	UNIV_T1	0	2	2	0	0.6	0.6	0.16	-1.11	0	0	0	0	0	0
5/30/2024 9:38	67203	TEHI_T1	1	2	1	0.4	0.5	0.1	2.67	1.96	3	3	0	2100	2100	0
5/30/2024 9:38	49804	UNIV_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
5/30/2024 9:39	50701	SMEC_T1	8	9	1	0.58	0.52	-0.06	-0.8	-0.79	0	0	0	0	0	0
5/30/2024 9:40	60803	BUCK_T1	7	0	-7	0.17	0	-0.17	0	0	0	0	0	0	0	0
5/30/2024 9:40	60801	BUCK_T1	2	1	-1	0.35	0.1	-0.25	0.19	0.14	0	0	0	0	0	0
5/30/2024 9:40	56802	BENV_T2	358	378	20	0.26	0.28	0.02	-1.31	-1.33	0	0	0	0	0	0
5/30/2024 9:41	57401	SPAN_T1	4	4	0	0.58	0.5	-0.08	-0.76	-0.72	1	1	0	600	600	0
5/30/2024 9:41	57403	SPAN_T1	146	50	-96	0.31	0.22	-0.09	0	0	0	0	0	0	0	0
5/30/2024 9:42	54504	ENOL_T2	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
5/30/2024 9:42	54505	ENOL_T2	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
5/30/2024 9:42	54502	ENOL_T2	1	1	0	0.7	0.6	-0.1	-1.05	-1.13	1	1	0	600	600	0
5/30/2024 9:43	56803	BENV_T1	5	7	2	0.6	0.56	-0.04	-0.12	-0.11	0	0	0	0	0	0
5/30/2024 9:43	20601	GRWO_T2	0	0	0	0	0	0	0.44	0.18	0	0	0	0	0	0
5/30/2024 9:43	56801	BENV_T1	14	23	9	0.79	0.88	0.09	0	0	0	0	0	0	0	0
5/30/2024 9:45	64802	MONE_T2	33	15	-18	0.36	0.29	-0.07	0.31	0.31	0	0	0	0	0	0
5/30/2024 9:45	62601	ENGL_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
5/30/2024 9:45	62605	ENGL_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
5/30/2024 9:45	62607	ENGL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/30/2024 9:45	64801	MONE_T2	8	3	-5	0.28	0.13	-0.15	0	0	0	0	0	0	0	0
5/30/2024 9:45	56801	BENV_T1	17	23	6	0.75	0.89	0.14	-0.18	-0.29	1	1	0	600	600	0
5/30/2024 9:45	56803	BENV_T1	7	7	0	0.43	0.57	0.14	0	0	0	0	0	0	0	0
5/30/2024 9:46	42902	MIDD_T2	1	2	1	0.1	0.5	0.4	-0.24	-0.11	1	1	0	600	600	0
5/30/2024 9:46	63801	HEMP_T1	0	0	0	0	0	0	-0.63	-0.52	1	1	0	900	900	0
5/30/2024 9:46	63804	HEMP_T1	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
5/30/2024 9:46	42903	MIDD_T2	2	2	0	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
5/30/2024 9:47	42903	MIDD_T2	2	2	0	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
5/30/2024 9:47	42902	MIDD_T2	1	2	1	0.1	0.5	0.4	-0.24	-0.11	1	1	0	600	600	0
5/30/2024 9:48	62607	ENGL_T1	1	1	0	0.2	0.2	0	-0.75	-0.75	0	0	0	0	0	0
5/30/2024 9:48	62605	ENGL_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
5/30/2024 9:49	42903	MIDD_T2	2	2	0	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
5/30/2024 9:49	66504	SMAN_T2	0	0	0	0	0	0	-0.21	-0.03	0	0	0	0	0	0
5/30/2024 9:49	42902	MIDD_T2	1	2	1	0.1	0.5	0.4	-0.24	-0.11	1	1	0	600	600	0
5/30/2024 9:49	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 9:49	66502	SMAN_T2	1	3	2	0.3	1.03	0.73	0	0	0	0	0	0	0	0
5/30/2024 9:50	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 9:50	66502	SMAN_T2	1	3	2	0.3	1.03	0.73	0	0	0	0	0	0	0	0
5/30/2024 9:50	66503	SMAN_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
5/30/2024 9:52	40201	BEGA_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
5/30/2024 9:52	66504	SMAN_T2	0	0	0	0	0	0	-0.42	-0.07	0	0	0	0	0	0
5/30/2024 9:52	66502	SMAN_T2	1	3	2	0.3	1.03	0.73	0	0	0	0	0	0	0	0
5/30/2024 9:52	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 9:52	42903	MIDD_T2	2	2	0	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
5/30/2024 9:52	42902	MIDD_T2	1	2	1	0.1	0.5	0.4	-0.24	-0.11	1	1	0	600	600	0
5/30/2024 9:52	60801	BUCK_T1	1	0	-1	0.1	0	-0.1	0.19	0.14	0	0	0	0	0	0
5/30/2024 9:52	13902	SEID_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/30/2024 9:52	13901	SEID_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
5/30/2024 9:52	13905	SEID_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 9:53	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 9:53	43301	WATS_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 9:53	15103	UPHA_T2	0	0	0	0	0	0	0.39	0.47	0	0	0	0	0	0
5/30/2024 9:53	15702	TANN_T2	6	6	0	0.43	0.53	0.1	-0.4	-0.34	0	0	0	0	0	0
5/30/2024 9:53	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 9:53	15703	TANN_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
5/30/2024 9:54	67703	WERN_T2	0	0	0	0	0	0	-0.16	-0.07	1	1	0	900	900	0
5/30/2024 9:55	57403	SPAN_T1	49	23	-26	0.22	0.28	0.06	0.06	0.06	0	0	0	0	0	0
5/30/2024 9:55	57401	SPAN_T1	4	7	3	0.5	0.36	-0.14	0	0	0	0	0	0	0	0
5/30/2024 9:56	40201	BEGA_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
5/30/2024 9:56	43301	WATS_T2	0	4	4	0	0	0	0	0	1	1	0	900	900	0
5/30/2024 9:56	10801	CHHI_T1	6	8	2	0.88	0.95	0.07	-0.77	-0.79	1	1	0	900	900	0
5/30/2024 9:58	23901	EFMO_T2	3	4	1	0.1	0.18	0.08	0	0	0	0	0	0	0	0
5/30/2024 9:59	43301	WATS_T2	0	4	4	0	0	0	0	0	1	1	0	900	900	0
5/30/2024 10:00	57104	SPHI_T2	2	2	0	4.3	0.85	-3.45	0	0	0	0	0	0	0	0
5/30/2024 10:00	13302	ORVI_T2	2	2	0	0.55	0.45	-0.1	1.48	1.48	0	0	0	0	0	0
5/30/2024 10:00	40505	CRES_T1	3	3	0	4.27	4.5	0.23	0.35	0.41	0	0	0	0	0	0
5/30/2024 10:00	66502	SMAN_T2	3	2	-1	1	0.6	-0.4	0	0	0	0	0	0	0	0
5/30/2024 10:00	67502	WEWI_T2	3	5	2	0.7	0.76	0.06	-0.17	-0.24	0	0	0	0	0	0
5/30/2024 10:00	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.03	-0.08	0	0	0	0	0	0
5/30/2024 10:00	58302	NOTT_T1	3	3	0	0.13	0.23	0.1	-0.31	-0.41	1	1	0	1200	1200	0
5/30/2024 10:00	57106	SPHI_T2	3	3	0	1.3	1.3	0	0	0	0	0	0	0	0	0
5/30/2024 10:00	46004	BERW_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/30/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
5/30/2024 10:00	46002	BERW_T2	1	1	0	0.5	0.4	-0.1	-1.18	-1.12	1	1	0	900	900	0
5/30/2024 10:00	59101	WALK_T2	0	0	0	0	0	0	0.18	0.4	0	0	0	0	0	0
5/30/2024 10:00	13704	SCHN_T2	1	1	0	0.5	0.5	0	-0.28	-0.49	0	0	0	0	0	0
5/30/2024 10:00	57002	WHHI_T2	0	0	0	0	0	0	-1.34	-1.23	1	1	0	1200	1200	0
5/30/2024 10:00	57006	WHHI_T2	3	4	1	0.5	0.5	0	0	0	0	0	0	0	0	0
5/30/2024 10:00	66501	SMAN_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:00	66503	SMAN_T2	0	0	0	0	0	0	0.47	0.52	0	0	0	0	0	0
5/30/2024 10:00	57101	SPHI_T2	6	6	0	0.62	0.18	-0.44	0.33	0.35	0	0	0	0	0	0
5/30/2024 10:00	57003	WHHI_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:00	13503	MCMI_T2	10	8	-2	0.39	0.53	0.14	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 10:02	65503	MOJO_T2	2	3	1	0.95	0.7	-0.25	-0.78	-0.85	1	1	0	900	900	0
5/30/2024 10:03	15603	NSTR_T2	8	6	-2	0.29	0.38	0.09	0	0	0	0	0	0	0	0
5/30/2024 10:03	15601	NSTR_T2	5	6	1	0.7	0.88	0.18	0	0	0	0	0	0	0	0
5/30/2024 10:03	15602	NSTR_T2	2	3	1	0.15	0.2	0.05	0.06	0.08	0	0	0	0	0	0
5/30/2024 10:06	65503	MOJO_T2	2	3	1	0.95	0.7	-0.25	0	0	0	0	0	0	0	0
5/30/2024 10:06	65502	MOJO_T2	0	0	0	0	0	0	-0.89	-0.53	1	1	0	900	900	0
5/30/2024 10:08	67605	WARW_T1	25	30	5	0.68	0.76	0.08	-1.99	-2.08	0	0	0	0	0	0
5/30/2024 10:08	40201	BEGA_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 10:08	15103	UPHA_T2	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
5/30/2024 10:08	67703	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:08	57106	SPHI_T2	3	3	0	1.3	1.3	0	0	0	0	0	0	0	0	0
5/30/2024 10:08	20401	ASHF_T2	3	3	0	0.37	0.1	-0.27	-0.28	-0.28	0	0	0	0	0	0
5/30/2024 10:08	14801	TREI_T2	4	3	-1	0.45	0.47	0.02	0.42	0.48	0	0	0	0	0	0
5/30/2024 10:08	14802	TREI_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
5/30/2024 10:08	59101	WALK_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
5/30/2024 10:08	67702	WERN_T2	0	1	1	0	0.7	0.7	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 10:08	67603	WARW_T1	3	3	0	0.4	0.73	0.33	0	0	0	0	0	0	0	0
5/30/2024 10:08	57104	SPHI_T2	2	2	0	4.3	0.85	-3.45	0	0	0	0	0	0	0	0
5/30/2024 10:08	20403	ASHF_T2	4	8	4	0.45	0.49	0.04	1.17	0.96	0	0	0	0	0	0
5/30/2024 10:08	57103	SPHI_T2	0	0	0	0	0	0	-0.27	-0.23	1	1	0	600	600	0
5/30/2024 10:08	57101	SPHI_T2	6	6	0	0.62	0.18	-0.44	0.35	0.35	0	0	0	0	0	0
5/30/2024 10:09	67605	WARW_T1	25	30	5	0.68	0.76	0.08	-2.99	-3.12	0	0	0	0	0	0
5/30/2024 10:09	15001	BLMO_T1	8	7	-1	0.45	0.41	-0.04	0	0	0	0	0	0	0	0
5/30/2024 10:09	67503	WEWI_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
5/30/2024 10:09	67702	WERN_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/30/2024 10:09	67502	WEWI_T2	3	5	2	0.7	0.76	0.06	0	0	0	0	0	0	0	0
5/30/2024 10:09	20403	ASHF_T2	4	8	4	0.45	0.49	0.04	1.17	0.96	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/30/2024 10:09	67703	WERN_T2	0	1	1	0	0.1	0.1	-0.07	-0.06	1	1	0	900	900	0
5/30/2024 10:09	67603	WARW_T1	3	3	0	0.4	0.73	0.33	0	0	0	0	0	0	0	0
5/30/2024 10:09	20401	ASHF_T2	3	3	0	0.37	0.1	-0.27	0	0	0	0	0	0	0	0
5/30/2024 10:10	67703	WERN_T2	0	1	1	0	0.1	0.1	-0.14	-0.13	2	2	0	1800	1800	0
5/30/2024 10:10	45501	DERR_T2	2	2	0	0.1	0.2	0.1	0.84	0.91	2	2	0	1800	1800	0
5/30/2024 10:10	59101	WALK_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
5/30/2024 10:10	67702	WERN_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/30/2024 10:10	10801	CHHI_T1	8	8	0	0.95	0.65	-0.3	-0.79	-0.62	1	1	0	900	900	0
5/30/2024 10:10	15001	BLMO_T1	8	7	-1	0.45	0.41	-0.04	0	0	0	0	0	0	0	0
5/30/2024 10:11	20403	ASHF_T2	4	8	4	0.45	0.49	0.04	1.17	0.96	0	0	0	0	0	0
5/30/2024 10:11	20401	ASHF_T2	3	3	0	0.37	0.1	-0.27	0	0	0	0	0	0	0	0
5/30/2024 10:11	10801	CHHI_T1	8	8	0	0.95	0.65	-0.3	-0.79	-0.62	1	1	0	900	900	0
5/30/2024 10:12	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/30/2024 10:12	54505	ENOL_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
5/30/2024 10:12	54504	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/30/2024 10:12	40101	HUNT_T2	0	0	0	0	0	0	-0.24	-0.21	0	0	0	0	0	0
5/30/2024 10:12	45501	DERR_T2	2	2	0	0.1	0.2	0.1	0.84	0.91	2	2	0	1800	1800	0
5/30/2024 10:12	67605	WARW_T1	25	30	5	0.68	0.76	0.08	-1	-1.04	0	0	0	0	0	0
5/30/2024 10:12	15001	BLMO_T1	8	7	-1	0.45	0.41	-0.04	0	0	0	0	0	0	0	0
5/30/2024 10:12	54501	ENOL_T2	1	0	-1	3.5	0	-3.5	0.17	0.21	0	0	0	0	0	0
5/30/2024 10:12	67603	WARW_T1	3	3	0	0.4	0.73	0.33	0	0	0	0	0	0	0	0
5/30/2024 10:13	40101	HUNT_T2	0	0	0	0	0	0	-0.24	-0.21	0	0	0	0	0	0
5/30/2024 10:13	63501	HEID_TBK1-2	9	10	1	0.37	0.38	0.01	0.28	0.33	1	1	0	900	900	0
5/30/2024 10:13	46801	HEPB_T2	2	2	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
5/30/2024 10:13	46803	HEPB_T2	1	1	0	0.9	1	0.1	0.48	0.46	0	0	0	0	0	0
5/30/2024 10:14	23901	EFMO_T2	4	1	-3	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
5/30/2024 10:14	67702	WERN_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
5/30/2024 10:14	23902	EFMO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 10:14	46801	HEPB_T2	2	2	0	1	0.8	-0.2	0.67	0.69	0	0	0	0	0	0
5/30/2024 10:14	46803	HEPB_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:14	67703	WERN_T2	0	1	1	0	0.1	0.1	-0.07	-0.06	1	1	0	900	900	0
5/30/2024 10:14	45501	DERR_T2	2	2	0	0.1	0.2	0.1	0.84	0.91	2	2	0	1800	1800	0
5/30/2024 10:15	25501	MADI_T1	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
5/30/2024 10:15	25503	MADI_T1	129	139	10	0.42	0.43	0.01	-0.91	-0.94	0	0	0	0	0	0
5/30/2024 10:15	46802	HEPB_T1	1	1	0	0.3	0.5	0.2	-0.25	-0.25	0	0	0	0	0	0
5/30/2024 10:15	25502	MADI_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
5/30/2024 10:16	13503	MCMI_T2	8	11	3	0.48	0.59	0.11	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 10:16	46803	HEPB_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
5/30/2024 10:16	63501	HEID_TBK1-2	5	12	7	0.46	0.35	-0.11	0.28	0.33	1	1	0	900	900	0
5/30/2024 10:16	46801	HEPB_T2	2	2	0	0.75	0.85	0.1	0.67	0.69	0	0	0	0	0	0
5/30/2024 10:16	64904	MILL_T1	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
5/30/2024 10:17	14601	SWHI_T1	7	8	1	0.44	0.54	0.1	-0.88	-0.88	0	0	0	0	0	0
5/30/2024 10:17	40101	HUNT_T2	0	0	0	0	0	0	-0.24	-0.21	0	0	0	0	0	0
5/30/2024 10:17	14602	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 10:17	14603	SWHI_T1	5	13	8	0.34	0.44	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:17	65503	MOJO_T2	2	3	1	0.7	0.7	0	-0.85	-0.89	1	1	0	900	900	0
5/30/2024 10:17	13503	MCMI_T2	8	11	3	0.48	0.59	0.11	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 10:18	65503	MOJO_T2	2	3	1	0.7	0.7	0	-0.85	-0.89	1	1	0	900	900	0
5/30/2024 10:19	64101	REFR_T1	0	3	3	0	0.3	0.3	-0.27	-0.21	0	0	0	0	0	0
5/30/2024 10:19	46801	HEPB_T2	2	2	0	0.75	0.85	0.1	0.67	0.69	0	0	0	0	0	0
5/30/2024 10:19	46803	HEPB_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
5/30/2024 10:20	13901	SEID_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 10:20	67603	WARW_T1	3	3	0	0.4	0.8	0.4	0.07	0.04	0	0	0	0	0	0
5/30/2024 10:20	16702	MACK_T1	0	2	2	0	0.4	0.4	-1.06	-1.04	0	0	0	0	0	0
5/30/2024 10:20	15602	NSTR_T2	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/30/2024 10:20	14403	SSLA_T1	3	4	1	0.6	0.65	0.05	0.81	0.83	0	0	0	0	0	0
5/30/2024 10:20	15603	NSTR_T2	4	9	5	0.35	0.39	0.04	-0.61	-0.61	0	0	0	0	0	0
5/30/2024 10:20	13905	SEID_T1	0	2	2	0	0.15	0.15	0.38	0.39	0	0	0	0	0	0
5/30/2024 10:20	14401	SSLA_T1	2	3	1	0.25	0.43	0.18	0	0	0	0	0	0	0	0
5/30/2024 10:20	14602	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 10:20	14601	SWHI_T1	7	8	1	0.44	0.54	0.1	-0.88	-0.88	0	0	0	0	0	0
5/30/2024 10:20	15601	NSTR_T2	3	9	6	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
5/30/2024 10:20	14402	SSLA_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/30/2024 10:20	43201	MVIL_T2	1	1	0	0.5	0.3	-0.2	-0.39	-0.39	0	0	0	0	0	0
5/30/2024 10:20	13902	SEID_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/30/2024 10:20	67605	WARW_T1	26	37	11	0.72	0.77	0.05	0	0	0	0	0	0	0	0
5/30/2024 10:20	14404	SSLA_T1	2	3	1	3	2.33	-0.67	0	0	0	0	0	0	0	0
5/30/2024 10:20	64101	REFR_T1	0	3	3	0	0.3	0.3	-0.09	-0.07	0	0	0	0	0	0
5/30/2024 10:20	14603	SWHI_T1	5	13	8	0.34	0.44	0.1	-1.96	-1.94	2	2	0	1200	1200	0
5/30/2024 10:21	15702	TANN_T2	6	8	2	0.53	0.75	0.22	-0.42	-0.35	0	0	0	0	0	0
5/30/2024 10:21	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 10:21	42001	MNVL_T2	4	3	-1	0.43	0.37	-0.06	0.11	0.08	0	0	0	0	0	0
5/30/2024 10:21	44601	SALE_T2	0	0	0	0	0	0	0.91	0.81	2	2	0	900	900	0
5/30/2024 10:21	24603	VARD_T2	6	8	2	0.67	0.83	0.16	0	0	0	0	0	0	0	0
5/30/2024 10:21	64101	REFR_T1	0	3	3	0	0.3	0.3	-0.09	-0.07	0	0	0	0	0	0
5/30/2024 10:21	42002	MNVL_T2	1	1	0	4.2	3.9	-0.3	0	0	0	0	0	0	0	0
5/30/2024 10:21	67703	WERN_T2	0	3	3	0	0.33	0.33	-0.07	-0.06	1	1	0	900	900	0
5/30/2024 10:21	67702	WERN_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
5/30/2024 10:21	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:21	67701	WERN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 10:21	50701	SMEC_T1	7	8	1	0.7	0.36	-0.34	-0.8	-0.75	0	0	0	0	0	0
5/30/2024 10:21	66501	SMAN_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
5/30/2024 10:21	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
5/30/2024 10:21	66502	SMAN_T2	1	2	1	0.8	0.6	-0.2	0.33	0.41	0	0	0	0	0	0
5/30/2024 10:21	24602	VARD_T2	305	71	-234	0.36	0.3	-0.06	-0.82	-0.29	0	0	0	0	0	0
5/30/2024 10:21	67605	WARW_T1	26	37	11	0.72	0.77	0.05	0	0	0	0	0	0	0	0
5/30/2024 10:21	67603	WARW_T1	3	3	0	0.4	0.8	0.4	0.07	0.04	0	0	0	0	0	0
5/30/2024 10:22	14403	SSLA_T1	3	4	1	0.6	0.65	0.05	0.81	0.83	0	0	0	0	0	0
5/30/2024 10:22	67703	WERN_T2	0	3	3	0	0.33	0.33	-0.07	-0.06	1	1	0	900	900	0
5/30/2024 10:22	57003	WHHI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/30/2024 10:22	57006	WHHI_T2	4	3	-1	0.4	0.63	0.23	0	0	0	0	0	0	0	0
5/30/2024 10:22	57001	WHHI_T2	0	0	0	0	0	0	0.12	0.14	1	1	0	900	900	0
5/30/2024 10:22	65205	PRIN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/30/2024 10:22	14401	SSLA_T1	2	3	1	0.25	0.43	0.18	0	0	0	0	0	0	0	0
5/30/2024 10:22	42001	MNVL_T2	4	3	-1	0.43	0.37	-0.06	0.11	0.08	0	0	0	0	0	0
5/30/2024 10:22	14402	SSLA_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/30/2024 10:22	42002	MNVL_T2	1	1	0	4.2	3.9	-0.3	0	0	0	0	0	0	0	0
5/30/2024 10:22	43301	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/30/2024 10:22	67701	WERN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 10:22	14404	SSLA_T1	2	3	1	3	2.33	-0.67	0	0	0	0	0	0	0	0
5/30/2024 10:22	67702	WERN_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
5/30/2024 10:23	67701	WERN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 10:23	67401	WAKE_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
5/30/2024 10:23	43301	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/30/2024 10:23	67703	WERN_T2	0	3	3	0	0.33	0.33	-0.06	-0.06	1	1	0	900	900	0
5/30/2024 10:23	67702	WERN_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
5/30/2024 10:23	66502	SMAN_T2	1	2	1	0.8	0.6	-0.2	0.41	0.48	0	0	0	0	0	0
5/30/2024 10:23	66501	SMAN_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
5/30/2024 10:23	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:23	67402	WAKE_T2	0	0	0	0	0	0	1.07	1.06	0	0	0	0	0	0
5/30/2024 10:23	67603	WARW_T1	3	3	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
5/30/2024 10:23	46302	ROHR_T1	5	4	-1	1.76	1.85	0.09	0	0	0	0	0	0	0	0
5/30/2024 10:23	46301	ROHR_T1	2	2	0	0.35	0.75	0.4	0.2	0.19	0	0	0	0	0	0
5/30/2024 10:23	64101	REFR_T1	0	3	3	0	0.3	0.3	-0.07	-0.06	0	0	0	0	0	0
5/30/2024 10:23	67605	WARW_T1	26	37	11	0.72	0.77	0.05	-1.04	-0.91	0	0	0	0	0	0
5/30/2024 10:24	64101	REFR_T1	0	3	3	0	0.3	0.3	-0.07	-0.06	0	0	0	0	0	0
5/30/2024 10:24	14403	SSLA_T1	3	4	1	0.6	0.65	0.05	0	0	0	0	0	0	0	0
5/30/2024 10:24	14404	SSLA_T1	2	3	1	3	2.33	-0.67	0.14	0.08	0	0	0	0	0	0
5/30/2024 10:24	66501	SMAN_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
5/30/2024 10:24	67401	WAKE_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
5/30/2024 10:24	42002	MNVL_T2	1	1	0	4.2	3.9	-0.3	0	0	0	0	0	0	0	0
5/30/2024 10:24	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.27	0.04	0	0	0	0	0	0
5/30/2024 10:24	67402	WAKE_T2	0	0	0	0	0	0	2.14	2.12	0	0	0	0	0	0
5/30/2024 10:24	14401	SSLA_T1	2	3	1	0.25	0.43	0.18	0	0	0	0	0	0	0	0
5/30/2024 10:24	50701	SMEC_T1	7	8	1	0.7	0.36	-0.34	-0.75	-0.79	0	0	0	0	0	0
5/30/2024 10:24	66502	SMAN_T2	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/30/2024 10:24	10805	CHHI_T2	2	2	0	4.4	8.4	4	-0.68	-0.85	1	1	0	600	600	0
5/30/2024 10:24	14402	SSLA_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/30/2024 10:24	42001	MNVL_T2	4	3	-1	0.43	0.37	-0.06	0.08	0.06	0	0	0	0	0	0
5/30/2024 10:25	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
5/30/2024 10:25	46301	ROHR_T1	2	2	0	0.35	0.75	0.4	0	0	0	0	0	0	0	0
5/30/2024 10:25	56803	BENV_T1	3	5	2	0.57	0.76	0.19	0	0	0	0	0	0	0	0
5/30/2024 10:25	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 10:25	64101	REFR_T1	0	3	3	0	0.3	0.3	-0.07	-0.06	0	0	0	0	0	0
5/30/2024 10:25	15702	TANN_T2	6	8	2	0.53	0.75	0.22	-0.7	-0.76	0	0	0	0	0	0
5/30/2024 10:25	67703	WERN_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
5/30/2024 10:25	46302	ROHR_T1	5	4	-1	1.76	1.85	0.09	0.15	0.15	0	0	0	0	0	0
5/30/2024 10:25	67702	WERN_T2	0	2	2	0	0.7	0.7	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 10:25	56801	BENV_T1	14	35	21	0.67	0.85	0.18	-0.48	-0.46	2	2	0	1200	1200	0
5/30/2024 10:25	43402	BENT_T1	2	2	0	0.5	1.05	0.55	-0.66	-0.63	1	1	0	900	900	0
5/30/2024 10:25	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 10:25	44301	BEAV_T2	1	4	3	0.7	0.3	-0.4	0.8	0.84	2	2	0	1500	1500	0
5/30/2024 10:25	40302	TAMA_T3	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
5/30/2024 10:25	67701	WERN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 10:26	14404	SSLA_T1	2	3	1	3	2.33	-0.67	0	0	0	0	0	0	0	0
5/30/2024 10:26	56803	BENV_T1	3	5	2	0.57	0.76	0.19	0	0	0	0	0	0	0	0
5/30/2024 10:26	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 10:26	56801	BENV_T1	14	35	21	0.67	0.85	0.18	-0.24	-0.23	1	1	0	600	600	0
5/30/2024 10:26	14401	SSLA_T1	2	3	1	0.25	0.43	0.18	0	0	0	0	0	0	0	0
5/30/2024 10:26	60801	BUCK_T1	0	0	0	0	0	0	0.17	0.11	0	0	0	0	0	0
5/30/2024 10:26	61801	EELI_T2	0	1	1	0	0.2	0.2	-0.62	-0.59	1	1	0	600	600	0
5/30/2024 10:26	46004	BERW_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
5/30/2024 10:26	46002	BERW_T2	1	1	0	0.4	0.3	-0.1	-1.12	-1.04	1	1	0	900	900	0
5/30/2024 10:26	14402	SSLA_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/30/2024 10:26	14403	SSLA_T1	3	4	1	0.6	0.65	0.05	0.83	0.94	0	0	0	0	0	0
5/30/2024 10:26	61803	EELI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/30/2024 10:27	56801	BENV_T1	14	35	21	0.67	0.85	0.18	-0.72	-0.69	3	3	0	1800	1800	0
5/30/2024 10:27	56803	BENV_T1	3	5	2	0.57	0.76	0.19	0	0	0	0	0	0	0	0
5/30/2024 10:27	26601	BROO_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
5/30/2024 10:27	56802	BENV_T2	191	47	-144	0.36	0.42	0.06	-5.08	-5.12	0	0	0	0	0	0
5/30/2024 10:27	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 10:28	56801	BENV_T1	14	35	21	0.67	0.85	0.18	-2.16	-2.07	9	9	0	5400	5400	0
5/30/2024 10:28	43402	BENT_T1	2	2	0	0.5	1.05	0.55	-0.66	-0.63	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/30/2024 10:28	56803	BENV_T1	3	5	2	0.57	0.76	0.19	0	0	0	0	0	0	0	0
5/30/2024 10:28	56802	BENV_T2	191	47	-144	0.36	0.42	0.06	-1.27	-1.28	0	0	0	0	0	0
5/30/2024 10:29	62105	ELAN_T1	3	3	0	0.13	0.23	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:29	24105	EHAZ_T1	4	4	0	6.4	6.13	-0.27	0	0	0	0	0	0	0	0
5/30/2024 10:29	24104	EHAZ_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/30/2024 10:29	56801	BENV_T1	14	35	21	0.67	0.85	0.18	-0.72	-0.69	3	3	0	1800	1800	0
5/30/2024 10:29	24101	EHAZ_T1	3	1	-2	0.27	1.3	1.03	0	0	0	0	0	0	0	0
5/30/2024 10:29	63401	HONY_T1	0	0	0	0	0	0	-0.25	-0.05	1	1	0	600	600	0
5/30/2024 10:29	24103	EHAZ_T1	0	0	0	0	0	0	-0.31	-0.39	0	0	0	0	0	0
5/30/2024 10:29	56802	BENV_T2	191	47	-144	0.36	0.42	0.06	-3.81	-3.84	0	0	0	0	0	0
5/30/2024 10:29	24102	EHAZ_T1	1	1	0	2.1	0.2	-1.9	0	0	0	0	0	0	0	0
5/30/2024 10:29	52403	GRPA_T2	6	6	0	0.78	0.78	0	0.16	0.18	0	0	0	0	0	0
5/30/2024 10:29	56803	BENV_T1	3	5	2	0.57	0.76	0.19	0	0	0	0	0	0	0	0
5/30/2024 10:29	52402	GRPA_T2	6	7	1	0.45	0.24	-0.21	0	0	0	0	0	0	0	0
5/30/2024 10:29	62102	ELAN_T1	0	0	0	0	0	0	0.69	0.78	0	0	0	0	0	0
5/30/2024 10:30	56803	BENV_T1	5	5	0	0.66	0.82	0.16	-0.08	-0.07	0	0	0	0	0	0
5/30/2024 10:30	23202	HIRU_T2	1	1	0	0.1	0.2	0.1	0.1	0.08	0	0	0	0	0	0
5/30/2024 10:30	56801	BENV_T1	14	35	21	0.74	0.85	0.11	-0.48	-0.46	2	2	0	1200	1200	0
5/30/2024 10:30	43402	BENT_T1	2	2	0	1.05	0.95	-0.1	-0.66	-0.63	1	1	0	900	900	0
5/30/2024 10:30	52402	GRPA_T2	6	15	9	0.25	0.55	0.3	0	0	0	0	0	0	0	0
5/30/2024 10:30	52401	GRPA_T2	0	1	1	0	0.2	0.2	-0.48	-0.49	0	0	0	0	0	0
5/30/2024 10:30	52403	GRPA_T2	6	5	-1	0.78	0.7	-0.08	0	0	0	0	0	0	0	0
5/30/2024 10:30	61801	EELI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/30/2024 10:30	22904	HARW_T1	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
5/30/2024 10:30	23203	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:30	23201	HIRU_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/30/2024 10:30	56802	BENV_T2	30	67	37	0.49	0.35	-0.14	-2.54	-2.56	0	0	0	0	0	0
5/30/2024 10:30	61803	EELI_T2	0	1	1	0	0.4	0.4	1.03	1.04	0	0	0	0	0	0
5/30/2024 10:31	56802	BENV_T2	30	67	37	0.49	0.35	-0.14	-2.54	-2.56	0	0	0	0	0	0
5/30/2024 10:32	52403	GRPA_T2	6	5	-1	0.78	0.7	-0.08	0.16	0.18	0	0	0	0	0	0
5/30/2024 10:32	51004	NHAR_T1	7	7	0	1	1.1	0.1	-0.48	-0.5	0	0	0	0	0	0
5/30/2024 10:32	56802	BENV_T2	30	67	37	0.49	0.35	-0.14	-1.27	-1.28	0	0	0	0	0	0
5/30/2024 10:32	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 10:32	52402	GRPA_T2	6	15	9	0.25	0.55	0.3	0	0	0	0	0	0	0	0
5/30/2024 10:32	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 10:32	42903	MIDD_T2	2	2	0	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
5/30/2024 10:32	42902	MIDD_T2	2	2	0	0.35	0.6	0.25	-0.12	-0.18	1	1	0	600	600	0
5/30/2024 10:32	51002	NHAR_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:33	13503	MCMI_T2	8	12	4	0.5	0.58	0.08	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 10:34	41001	LAUR_T2	35	36	1	0.26	0.26	0	0	0	0	0	0	0	0	0
5/30/2024 10:34	41002	LAUR_T2	6	6	0	0.53	0.6	0.07	0.08	0.08	0	0	0	0	0	0
5/30/2024 10:35	42903	MIDD_T2	2	2	0	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
5/30/2024 10:35	46301	ROHR_T1	2	2	0	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
5/30/2024 10:35	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 10:35	46302	ROHR_T1	4	5	1	1.85	1.36	-0.49	0.15	0.15	0	0	0	0	0	0
5/30/2024 10:35	42902	MIDD_T2	2	2	0	0.35	0.6	0.25	-0.12	-0.18	1	1	0	600	600	0
5/30/2024 10:36	13606	RICH_T2	1	1	0	7.2	7.2	0	1.32	1.27	0	0	0	0	0	0
5/30/2024 10:36	46302	ROHR_T1	4	5	1	1.85	1.36	-0.49	0.15	0.15	0	0	0	0	0	0
5/30/2024 10:36	24105	EHAZ_T1	4	4	0	6.13	6.13	0	0	0	0	0	0	0	0	0
5/30/2024 10:36	24103	EHAZ_T1	0	0	0	0	0	0	-0.31	-0.39	0	0	0	0	0	0
5/30/2024 10:36	46301	ROHR_T1	2	2	0	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
5/30/2024 10:36	24104	EHAZ_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/30/2024 10:36	24101	EHAZ_T1	0	6	6	0	1.3	1.3	0	0	0	0	0	0	0	0
5/30/2024 10:36	24102	EHAZ_T1	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
5/30/2024 10:37	58001	WCAR_T1	6	6	0	0.98	0.73	-0.25	0.81	0.87	0	0	0	0	0	0
5/30/2024 10:37	58003	WCAR_T1	13	12	-1	0.38	0.44	0.06	0	0	0	0	0	0	0	0
5/30/2024 10:38	58001	WCAR_T1	6	6	0	0.98	0.73	-0.25	0	0	0	0	0	0	0	0
5/30/2024 10:38	40201	BEGA_T2	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
5/30/2024 10:38	58003	WCAR_T1	13	12	-1	0.38	0.44	0.06	0.96	0.93	0	0	0	0	0	0
5/30/2024 10:39	26603	BROO_T1	0	0	0	0	0	0	-0.09	-0.06	0	0	0	0	0	0
5/30/2024 10:39	58001	WCAR_T1	6	6	0	0.98	0.73	-0.25	0	0	0	0	0	0	0	0
5/30/2024 10:39	24102	EHAZ_T1	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
5/30/2024 10:39	58003	WCAR_T1	13	12	-1	0.38	0.44	0.06	0.96	0.93	0	0	0	0	0	0
5/30/2024 10:39	24105	EHAZ_T1	4	4	0	6.13	6.13	0	0	0	0	0	0	0	0	0
5/30/2024 10:39	24104	EHAZ_T1	1	1	0	0.1	0.3	0.2	-0.94	-0.86	1	1	0	1200	1200	0
5/30/2024 10:39	24101	EHAZ_T1	0	6	6	0	1.3	1.3	0	0	0	0	0	0	0	0
5/30/2024 10:40	29402	BELT_T1	3	6	3	3.03	1.77	-1.26	0	0	0	0	0	0	0	0
5/30/2024 10:40	26401	INOR_T1	4	4	0	2.4	2.5	0.1	0.9	0.99	0	0	0	0	0	0
5/30/2024 10:40	26603	BROO_T1	0	0	0	0	0	0	-0.09	-0.06	0	0	0	0	0	0
5/30/2024 10:40	29401	BELT_T1	3	11	8	0.23	0.34	0.11	0	0	1	1	0	900	900	0
5/30/2024 10:41	54504	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:41	29401	BELT_T1	3	11	8	0.23	0.34	0.11	0	0	4	4	0	3600	3600	0
5/30/2024 10:41	29402	BELT_T1	3	6	3	3.03	1.77	-1.26	0	0	0	0	0	0	0	0
5/30/2024 10:41	26401	INOR_T1	4	4	0	2.4	2.5	0.1	0.9	0.99	0	0	0	0	0	0
5/30/2024 10:41	54501	ENOL_T2	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
5/30/2024 10:41	54505	ENOL_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:41	28403	HART_T2	0	0	0	0	0	0	-0.78	-0.78	1	1	0	900	900	0
5/30/2024 10:41	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/30/2024 10:42	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/30/2024 10:42	17805	GILB_T2	1	3	2	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
5/30/2024 10:42	54501	ENOL_T2	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
5/30/2024 10:42	54505	ENOL_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:42	17804	GILB_T2	7	7	0	0.56	0.61	0.05	-0.55	-0.55	0	0	0	0	0	0
5/30/2024 10:42	54504	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:43	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/30/2024 10:43	54504	ENOL_T2	1	1	0	0.4	0.5	0.1	-1.1	-1.09	1	1	0	600	600	0
5/30/2024 10:43	46004	BERW_T2	2	3	1	0.15	0.17	0.02	0.34	0.32	0	0	0	0	0	0
5/30/2024 10:43	54505	ENOL_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:43	46002	BERW_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/30/2024 10:43	29401	BELT_T1	3	11	8	0.23	0.34	0.11	0	0	2	2	0	1800	1800	0
5/30/2024 10:43	29402	BELT_T1	3	6	3	3.03	1.77	-1.26	0	0	0	0	0	0	0	0
5/30/2024 10:43	17802	GILB_T1	4	5	1	0.7	0.86	0.16	0.18	0.17	0	0	0	0	0	0
5/30/2024 10:47	47802	MOCA_T2	1	1	0	0.4	0.2	-0.2	-0.89	-0.87	0	0	0	0	0	0
5/30/2024 10:48	23202	HIRU_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/30/2024 10:48	23201	HIRU_T2	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/30/2024 10:48	23203	HIRU_T2	1	1	0	0.1	0.2	0.1	0.15	0.12	0	0	0	0	0	0
5/30/2024 10:49	64101	REFR_T1	2	2	0	0.3	0.45	0.15	-0.06	-0.08	0	0	0	0	0	0
5/30/2024 10:49	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 10:49	58201	NEWV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 10:49	58202	NEWV_T1	0	3	3	0	0.2	0.2	0.39	0.36	0	0	0	0	0	0
5/30/2024 10:49	55002	NEWP_T1	15	13	-2	0.72	0.87	0.15	-0.38	-0.4	0	0	0	0	0	0
5/30/2024 10:50	58202	NEWV_T1	0	3	3	0	0.2	0.2	0.39	0.36	0	0	0	0	0	0
5/30/2024 10:50	58201	NEWV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 10:51	66902	SHIL_T2	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
5/30/2024 10:51	67702	WERN_T2	2	2	0	0.7	0.75	0.05	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 10:51	64101	REFR_T1	2	2	0	0.3	0.45	0.15	-0.06	-0.08	0	0	0	0	0	0
5/30/2024 10:51	67703	WERN_T2	3	3	0	0.33	0.47	0.14	0	0	0	0	0	0	0	0
5/30/2024 10:51	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 10:51	66901	SHIL_T2	9	6	-3	0.19	0.18	-0.01	-1.03	-1.03	0	0	0	0	0	0
5/30/2024 10:51	67701	WERN_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:51	27603	PIRI_T2	0	0	0	0	0	0	-1.15	-1.21	2	2	0	1800	1800	0
5/30/2024 10:51	55002	NEWP_T1	15	13	-2	0.72	0.87	0.15	-0.38	-0.4	0	0	0	0	0	0
5/30/2024 10:51	13704	SOHN_T2	1	1	0	0.6	0.5	-0.1	-0.16	-0.22	0	0	0	0	0	0
5/30/2024 10:51	55003	NEWP_T2	9	9	0	0.29	0.28	-0.01	-0.03	-0.02	0	0	0	0	0	0
5/30/2024 10:51	66903	SHIL_T2	15	5	-10	0.38	0.52	0.14	0	0	0	0	0	0	0	0
5/30/2024 10:52	67702	WERN_T2	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
5/30/2024 10:52	67701	WERN_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:52	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 10:52	67703	WERN_T2	3	3	0	0.33	0.47	0.14	-0.12	-0.12	2	2	0	1800	1800	0
5/30/2024 10:52	55002	NEWP_T1	15	13	-2	0.72	0.87	0.15	-0.38	-0.4	0	0	0	0	0	0
5/30/2024 10:53	67702	WERN_T2	2	2	0	0.7	0.75	0.05	-0.02	-0.02	0	0	0	0	0	0
5/30/2024 10:53	57006	WHHI_T2	2	3	1	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
5/30/2024 10:53	57003	WHHI_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:53	67701	WERN_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:53	67703	WERN_T2	3	3	0	0.33	0.47	0.14	0	0	0	0	0	0	0	0
5/30/2024 10:53	15001	BLMO_T1	7	7	0	0.56	0.4	-0.16	0	0	0	0	0	0	0	0
5/30/2024 10:53	57002	WHHI_T2	0	0	0	0	0	0	-1.21	-1.22	1	1	0	1200	1200	0
5/30/2024 10:54	24105	EHAZ_T1	4	4	0	6.15	6.08	-0.07	0	0	0	0	0	0	0	0
5/30/2024 10:54	60801	BUCK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 10:54	60803	BUCK_T1	0	0	0	0	0	0	-0.47	-0.46	1	1	0	600	600	0
5/30/2024 10:54	24101	EHAZ_T1	1	6	5	1.3	1	-0.3	0	0	0	0	0	0	0	0
5/30/2024 10:54	67701	WERN_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:54	67703	WERN_T2	3	3	0	0.33	0.47	0.14	-0.06	-0.06	1	1	0	900	900	0
5/30/2024 10:54	24104	EHAZ_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/30/2024 10:54	67702	WERN_T2	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
5/30/2024 10:54	24102	EHAZ_T1	1	1	0	0.2	0.5	0.3	0.25	0.14	0	0	0	0	0	0
5/30/2024 10:55	55101	WERT_T1	0	0	0	0	0	0	-2.95	-3.08	6	6	0	4800	4800	0
5/30/2024 10:55	67701	WERN_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/30/2024 10:55	60801	BUCK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 10:55	67502	WEWI_T2	4	4	0	0.83	0.83	0	-0.09	-0.12	0	0	0	0	0	0
5/30/2024 10:55	67703	WERN_T2	3	3	0	0.33	0.47	0.14	0	0	0	0	0	0	0	0
5/30/2024 10:55	67702	WERN_T2	2	2	0	0.7	0.75	0.05	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 10:55	60803	BUCK_T1	0	0	0	0	0	0	-0.47	-0.46	1	1	0	600	600	0
5/30/2024 10:55	67503	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 10:56	46001	BERW_T1	0	0	0	0	0	0	1.4	1.18	0	0	0	0	0	0
5/30/2024 10:56	46005	BERW_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
5/30/2024 10:57	63501	HEID_TBK1-2	12	5	-7	0.33	0.44	0.11	0.22	0.49	1	1	0	900	900	0
5/30/2024 10:57	46001	BERW_T1	0	0	0	0	0	0	1.4	1.18	0	0	0	0	0	0
5/30/2024 10:57	67502	WEWI_T2	4	4	0	0.83	0.83	0	-0.09	-0.12	0	0	0	0	0	0
5/30/2024 10:57	46005	BERW_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
5/30/2024 10:57	10102	ALLE_T2	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
5/30/2024 10:57	67503	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 10:57	10203	ALLE_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/30/2024 10:58	60803	BUCK_T1	0	0	0	0	0	0	-0.94	-0.92	2	2	0	1200	1200	0
5/30/2024 10:58	67502	WEWI_T2	4	4	0	0.83	0.83	0	-0.09	-0.12	0	0	0	0	0	0
5/30/2024 10:58	60801	BUCK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 10:58	67503	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 10:59	64302	LINC_T2	0	0	0	0	0	0	1.41	1.42	0	0	0	0	0	0
5/30/2024 10:59	63804	HEMP_T1	1	1	0	6.9	6	-0.9	-0.47	-0.53	0	0	0	0	0	0
5/30/2024 10:59	64304	LINC_T2	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/30/2024 10:59	63801	HEMP_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 10:59	63803	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 11:00	41205	KENM_T2	0	0	0	0	0	0	-0.72	-0.69	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/30/2024 11:01	46504	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 11:01	46506	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 11:01	46502	LOHA_T1	0	0	0	0	0	0	0.01	0.02	1	1	0	1200	1200	0
5/30/2024 11:03	46504	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 11:03	46506	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 11:03	46501	LOHA_T1	0	0	0	0	0	0	0.14	0.19	1	1	0	1200	1200	0
5/30/2024 11:03	12801	MICK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 11:04	58402	MORO_T1	0	0	0	0	0	0	0.11	-0.02	2	2	0	1500	1500	0
5/30/2024 11:04	58401	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/30/2024 11:04	64702	LITI_T2	0	0	0	0	0	0	-1.62	-1.2	0	0	0	0	0	0
5/30/2024 11:05	58401	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/30/2024 11:05	67002	STHI_T2	3	3	0	0.3	0.33	0.03	0.81	0.77	0	0	0	0	0	0
5/30/2024 11:05	41902	REED_T1	1	1	0	0.3	0.4	0.1	1.14	1.15	0	0	0	0	0	0
5/30/2024 11:05	50701	SMEC_T1	7	6	-1	0.46	0.6	0.14	-0.73	-0.76	0	0	0	0	0	0
5/30/2024 11:05	58402	MORO_T1	0	0	0	0	0	0	0.11	-0.02	2	2	0	1500	1500	0
5/30/2024 11:06	65604	QVIL_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
5/30/2024 11:06	41902	REED_T1	1	1	0	0.3	0.4	0.1	1.14	1.15	0	0	0	0	0	0
5/30/2024 11:06	67002	STHI_T2	3	3	0	0.3	0.33	0.03	0.81	0.77	0	0	0	0	0	0
5/30/2024 11:07	27605	PIRI_T2	0	0	0	0	0	0	0.74	0.76	0	0	0	0	0	0
5/30/2024 11:07	17002	RIRO_T2	11	9	-2	0.59	0.73	0.14	0.72	0.69	0	0	0	0	0	0
5/30/2024 11:07	67002	STHI_T2	3	3	0	0.3	0.33	0.03	2.43	2.31	0	0	0	0	0	0
5/30/2024 11:08	66501	SMAN_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
5/30/2024 11:08	66505	SMAN_T2	0	0	0	0	0	0	0.78	0.65	1	1	0	900	900	0
5/30/2024 11:08	66504	SMAN_T2	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/30/2024 11:08	50701	SMEC_T1	7	6	-1	0.46	0.6	0.14	-0.76	-0.75	0	0	0	0	0	0
5/30/2024 11:08	66703	STRA_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
5/30/2024 11:08	67002	STHI_T2	3	3	0	0.3	0.33	0.03	0.77	0.78	0	0	0	0	0	0
5/30/2024 11:08	66502	SMAN_T2	2	3	1	0.9	0.67	-0.23	0	0	0	0	0	0	0	0
5/30/2024 11:08	66701	STRA_T1	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
5/30/2024 11:09	43801	SWIL_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
5/30/2024 11:09	16103	BING_T2	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/30/2024 11:09	67002	STHI_T2	3	3	0	0.3	0.33	0.03	1.54	1.56	0	0	0	0	0	0
5/30/2024 11:09	16102	BING_T2	1	1	0	0.5	0.4	-0.1	1.12	1.17	0	0	0	0	0	0
5/30/2024 11:09	66701	STRA_T1	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
5/30/2024 11:09	66703	STRA_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
5/30/2024 11:09	58201	NEWV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 11:09	43402	BENT_T1	2	10	8	0.9	0.43	-0.47	-0.7	-0.71	1	1	0	900	900	0
5/30/2024 11:09	43802	SWIL_T1	0	0	0	0	0	0	-0.04	0	1	1	0	600	600	0
5/30/2024 11:09	16101	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/30/2024 11:09	58202	NEWV_T1	1	3	2	0.3	0.27	-0.03	0.31	0.21	0	0	0	0	0	0
5/30/2024 11:10	16102	BING_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/30/2024 11:10	43301	WATS_T2	4	7	3	8.3	0.3	-8	0	0	1	1	0	900	900	0
5/30/2024 11:10	16101	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/30/2024 11:10	16103	BING_T2	2	2	0	0.8	0.9	0.1	-0.57	-0.49	0	0	0	0	0	0
5/30/2024 11:10	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 11:10	42201	SHEN_T2	0	1	1	0	0.4	0.4	0.08	0.08	1	1	0	600	600	0
5/30/2024 11:10	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
5/30/2024 11:10	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 11:10	43402	BENT_T1	2	10	8	0.9	0.43	-0.47	-0.7	-0.71	1	1	0	900	900	0
5/30/2024 11:10	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 11:11	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 11:11	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 11:11	42201	SHEN_T2	0	1	1	0	0.4	0.4	0.08	0.08	1	1	0	600	600	0
5/30/2024 11:11	27501	WEIS_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/30/2024 11:11	27504	WEIS_T1	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
5/30/2024 11:12	45501	DERR_T2	1	1	0	0.1	0	-0.1	0.96	0.87	2	2	0	1800	1800	0
5/30/2024 11:12	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 11:12	42201	SHEN_T2	0	1	1	0	0.4	0.4	0.08	0.08	1	1	0	600	600	0
5/30/2024 11:12	53903	HALI_T2	5	8	3	0.74	0.64	-0.1	0	0	0	0	0	0	0	0
5/30/2024 11:12	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 11:12	53901	HALI_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/30/2024 11:12	53902	HALI_T2	3	3	0	2.1	2.17	0.07	-0.15	-0.16	0	0	0	0	0	0
5/30/2024 11:12	29402	BELT_T1	4	4	0	2.43	2.7	0.27	0	0	0	0	0	0	0	0
5/30/2024 11:12	29401	BELT_T1	4	9	5	0.68	0.5	-0.18	0	0	1	1	0	900	900	0
5/30/2024 11:13	29401	BELT_T1	4	9	5	0.68	0.5	-0.18	0	0	0	0	0	0	0	0
5/30/2024 11:13	29402	BELT_T1	4	4	0	2.43	2.7	0.27	0	0	0	0	0	0	0	0
5/30/2024 11:14	29402	BELT_T1	4	4	0	2.43	2.7	0.27	0	0	0	0	0	0	0	0
5/30/2024 11:14	45501	DERR_T2	1	1	0	0.1	0	-0.1	0.96	0.87	2	2	0	1800	1800	0
5/30/2024 11:14	29401	BELT_T1	4	9	5	0.68	0.5	-0.18	0	0	1	1	0	900	900	0
5/30/2024 11:15	40101	HUNT_T2	0	0	0	0	0	0	-0.03	-0.22	0	0	0	0	0	0
5/30/2024 11:18	42001	MNVL_T2	3	4	1	0.23	0.63	0.4	0.11	0.1	0	0	0	0	0	0
5/30/2024 11:18	42002	MNVL_T2	1	1	0	4	4	0	0	0	0	0	0	0	0	0
5/30/2024 11:20	59301	MCAL_T1	1	1	0	0.2	0.5	0.3	-0.91	-0.92	0	0	0	0	0	0
5/30/2024 11:20	28805	LAKE_T1	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
5/30/2024 11:20	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 11:21	50701	SMEC_T1	6	5	-1	0.37	0.66	0.29	-1.51	-1.5	0	0	0	0	0	0
5/30/2024 11:22	65604	QVIL_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
5/30/2024 11:22	40101	HUNT_T2	0	0	0	0	0	0	-0.03	-0.22	0	0	0	0	0	0
5/30/2024 11:22	45902	AUBU_T1	1	2	1	0.3	0.45	0.15	-0.32	-0.28	1	1	0	600	600	0
5/30/2024 11:23	61103	BERK_T5	2	4	2	0.2	0.15	-0.05	0.21	0.2	0	0	0	0	0	0
5/30/2024 11:23	61102	BERK_T5	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
5/30/2024 11:23	61101	BERK_T5	12	12	0	0.6	0.67	0.07	0	0	0	0	0	0	0	0
5/30/2024 11:24	67402	WAKE_T2	0	0	0	0	0	0	0.52	1.11	0	0	0	0	0	0
5/30/2024 11:24	66703	STRA_T1	0	0	0	0	0	0	0.09	0.21	0	0	0	0	0	0
5/30/2024 11:24	50701	SMEC_T1	6	5	-1	0.37	0.66	0.29	-0.75	-0.73	0	0	0	0	0	0
5/30/2024 11:24	66701	STRA_T1	2	2	0	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
5/30/2024 11:24	67401	WAKE_T2	6	3	-3	0.35	0.47	0.12	-0.97	-1.03	0	0	0	0	0	0
5/30/2024 11:24	61102	BERK_T5	2	1	-1	0.2	0.2	0	0.5	0.49	1	1	0	300	300	0
5/30/2024 11:24	61103	BERK_T5	2	4	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/30/2024 11:24	45902	AUBU_T1	1	2	1	0.3	0.45	0.15	-0.28	-0.27	1	1	0	600	600	0
5/30/2024 11:24	61101	BERK_T5	12	12	0	0.6	0.67	0.07	0	0	0	0	0	0	0	0
5/30/2024 11:25	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 11:25	60103	COCA_T2	0	0	0	0	0	0	0.99	1.07	1	1	0	900	900	0
5/30/2024 11:25	60104	COCA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 11:25	67002	STHI_T2	2	3	1	0.35	0.3	-0.05	0.78	0.8	0	0	0	0	0	0
5/30/2024 11:25	61102	BERK_T5	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
5/30/2024 11:25	61101	BERK_T5	12	12	0	0.6	0.67	0.07	-0.47	-0.44	0	0	0	0	0	0
5/30/2024 11:25	61103	BERK_T5	2	4	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/30/2024 11:26	61101	BERK_T5	12	12	0	0.6	0.67	0.07	0	0	0	0	0	0	0	0
5/30/2024 11:26	61103	BERK_T5	2	4	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/30/2024 11:26	61102	BERK_T5	2	1	-1	0.2	0.2	0	1	0.99	2	2	0	600	600	0
5/30/2024 11:26	58003	WCAR_T1	12	10	-2	0.47	0.52	0.05	0.9	0.88	0	0	0	0	0	0
5/30/2024 11:26	58001	WCAR_T1	6	5	-1	0.92	0.92	0	0	0	0	0	0	0	0	0
5/30/2024 11:27	61101	BERK_T5	12	12	0	0.6	0.67	0.07	-0.47	-0.44	0	0	0	0	0	0
5/30/2024 11:27	61102	BERK_T5	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
5/30/2024 11:27	53902	HALI_T2	3	3	0	2.17	2.13	-0.04	0	0	0	0	0	0	0	0
5/30/2024 11:27	11202	ELHE_T2	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
5/30/2024 11:27	45902	AUBU_T1	1	2	1	0.3	0.45	0.15	-0.56	-0.54	2	2	0	1200	1200	0
5/30/2024 11:27	61103	BERK_T5	2	4	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/30/2024 11:27	58003	WCAR_T1	12	10	-2	0.47	0.52	0.05	0.9	0.88	0	0	0	0	0	0
5/30/2024 11:27	58001	WCAR_T1	6	5	-1	0.92	0.92	0	0	0	0	0	0	0	0	0
5/30/2024 11:27	53903	HALI_T2	7	8	1	0.64	0.65	0.01	0	0	0	0	0	0	0	0
5/30/2024 11:27	64101	REFR_T1	2	2	0	0.45	0.75	0.3	-0.07	-0.05	0	0	0	0	0	0
5/30/2024 11:27	53901	HALI_T2	1	1	0	0.3	0.2	-0.1	-0.97	-0.99	0	0	0	0	0	0
5/30/2024 11:28	60902	DONG_T2	0	0	0	0	0	0	0.99	1	0	0	0	0	0	0
5/30/2024 11:28	29401	BELT_T1	9	6	-3	0.43	0.7	0.27	0	0	1	1	0	900	900	0
5/30/2024 11:28	60904	DONG_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
5/30/2024 11:28	45902	AUBU_T1	1	2	1	0.3	0.45	0.15	-0.28	-0.27	1	1	0	600	600	0
5/30/2024 11:28	60901	DONG_T2	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
5/30/2024 11:28	29402	BELT_T1	4	4	0	2.65	2.65	0	0	0	0	0	0	0	0	0
5/30/2024 11:28	60903	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 11:29	46101	MACI_T2	0	0	0	0	0	0	0.44	0.44	1	1	0	1200	1200	0
5/30/2024 11:30	45702	LIND_T2	2	10	8	1.15	0.5	-0.65	-0.48	-0.43	0	0	0	0	0	0
5/30/2024 11:30	29401	BELT_T1	6	6	0	0.7	0.6	-0.1	0	0	1	1	0	900	900	0
5/30/2024 11:30	29402	BELT_T1	4	4	0	2.65	2.68	0.03	0	0	0	0	0	0	0	0
5/30/2024 11:31	42902	MIDD_T2	3	0	-3	0.27	0	-0.27	-0.17	-0.19	1	1	0	600	600	0
5/30/2024 11:31	42903	MIDD_T2	2	2	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
5/30/2024 11:31	43402	BENT_T1	10	10	0	0.43	0.53	0.1	-0.71	-0.67	1	1	0	900	900	0
5/30/2024 11:32	42902	MIDD_T2	3	0	-3	0.27	0	-0.27	-0.33	-0.38	2	2	0	1200	1200	0
5/30/2024 11:32	43402	BENT_T1	10	10	0	0.43	0.53	0.1	-0.71	-0.67	1	1	0	900	900	0
5/30/2024 11:32	42903	MIDD_T2	2	2	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
5/30/2024 11:32	13503	MCMI_T2	13	16	3	0.54	0.56	0.02	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 11:34	42903	MIDD_T2	2	2	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
5/30/2024 11:34	14601	SWHI_T1	6	6	0	0.47	0.4	-0.07	-0.85	-0.84	0	0	0	0	0	0
5/30/2024 11:34	58202	NEWV_T1	2	1	-1	0.35	0.6	0.25	0.21	0.32	0	0	0	0	0	0
5/30/2024 11:34	14602	SWHI_T1	1	0	-1	0.7	0.8	0.1	0.29	0.28	0	0	0	0	0	0
5/30/2024 11:34	58201	NEWV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/30/2024 11:34	14603	SWHI_T1	6	9	3	0.52	0.43	-0.09	0	0	0	0	0	0	0	0
5/30/2024 11:34	50701	SMEC_T1	4	5	1	0.73	0.6	-0.13	-0.75	-0.73	0	0	0	0	0	0
5/30/2024 11:34	42902	MIDD_T2	3	0	-3	0.27	0	-0.27	-0.17	-0.19	1	1	0	600	600	0
5/30/2024 11:35	57104	SPHI_T2	3	3	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
5/30/2024 11:35	66901	SHIL_T2	2	6	4	0.2	0.27	0.07	0	0	0	0	0	0	0	0
5/30/2024 11:35	13601	RICH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 11:35	57103	SPHI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/30/2024 11:35	66902	SHIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/30/2024 11:35	50701	SMEC_T1	4	5	1	0.73	0.6	-0.13	-0.75	-0.73	0	0	0	0	0	0
5/30/2024 11:35	57106	SPHI_T2	3	4	1	1.5	1.08	-0.42	0	0	0	0	0	0	0	0
5/30/2024 11:35	57101	SPHI_T2	6	6	0	0.45	0.3	-0.15	0.38	0.41	0	0	0	0	0	0
5/30/2024 11:35	16504	STRO_T1	0	0	0	0	0	0	0.45	0.41	1	1	0	1200	1200	0
5/30/2024 11:35	66903	SHIL_T2	5	5	0	0.48	0.44	-0.04	-0.81	-0.78	0	0	0	0	0	0
5/30/2024 11:35	13606	RICH_T2	1	3	2	7.4	7.3	-0.1	1.31	1.27	0	0	0	0	0	0
5/30/2024 11:36	27602	PIRI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 11:36	66903	SHIL_T2	5	5	0	0.48	0.44	-0.04	-0.81	-0.78	0	0	0	0	0	0
5/30/2024 11:36	66902	SHIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/30/2024 11:36	66901	SHIL_T2	2	6	4	0.2	0.27	0.07	0	0	0	0	0	0	0	0
5/30/2024 11:36	57106	SPHI_T2	3	4	1	1.5	1.08	-0.42	0	0	0	0	0	0	0	0
5/30/2024 11:36	57101	SPHI_T2	6	6	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
5/30/2024 11:36	57104	SPHI_T2	3	3	0	0.9	1.1	0.2	-0.83	-0.86	1	1	0	900	900	0
5/30/2024 11:36	57103	SPHI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/30/2024 11:36	27604	PIRI_T1	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
5/30/2024 11:37	24201	PROV_T3	1	6	5	7.2	1.28	-5.92	-1.3	-1.28	1	1	0	1200	1200	0
5/30/2024 11:37	66902	SHIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/30/2024 11:37	67804	WLAN_T1	4	5	1	0.25	0.16	-0.09	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/30/2024 11:37	67803	WLAN_T1	6	6	0	0.28	0.32	0.04	-0.77	-0.8	0	0	0	0	0	0
5/30/2024 11:37	14601	SWHI_T1	6	6	0	0.47	0.4	-0.07	-0.85	-0.84	0	0	0	0	0	0
5/30/2024 11:37	27602	PIRI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 11:37	66903	SHIL_T2	5	5	0	0.48	0.44	-0.04	0	0	0	0	0	0	0	0
5/30/2024 11:37	14602	SWHI_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/30/2024 11:37	24204	PROV_T3	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
5/30/2024 11:37	66901	SHIL_T2	2	6	4	0.2	0.27	0.07	-0.98	-0.98	0	0	0	0	0	0
5/30/2024 11:37	27604	PIRI_T1	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
5/30/2024 11:37	14603	SWHI_T1	6	9	3	0.52	0.43	-0.09	0	0	0	0	0	0	0	0
5/30/2024 11:38	67803	WLAN_T1	6	6	0	0.28	0.32	0.04	-1.6	-1.54	0	0	0	0	0	0
5/30/2024 11:38	45902	AUBU_T1	1	2	1	0.7	0.25	-0.45	-0.27	-0.25	1	1	0	600	600	0
5/30/2024 11:38	24204	PROV_T3	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
5/30/2024 11:38	67804	WLAN_T1	4	5	1	0.25	0.16	-0.09	0	0	0	0	0	0	0	0
5/30/2024 11:38	24201	PROV_T3	1	6	5	7.2	1.28	-5.92	-1.3	-1.28	1	1	0	1200	1200	0
5/30/2024 11:38	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 11:39	50701	SMEC_T1	4	5	1	0.73	0.6	-0.13	-0.73	-0.71	0	0	0	0	0	0
5/30/2024 11:39	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 11:39	44301	BEAV_T2	6	10	4	0.52	0.46	-0.06	0.85	1.03	2	2	0	1500	1500	0
5/30/2024 11:40	67801	WLAN_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
5/30/2024 11:40	60801	BUCK_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/30/2024 11:40	55105	WERT_T1	0	0	0	0	0	0	-0.77	-0.67	2	2	0	1800	1800	0
5/30/2024 11:40	67803	WLAN_T1	6	6	0	0.28	0.32	0.04	-0.8	-0.77	0	0	0	0	0	0
5/30/2024 11:40	13701	SCHN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/30/2024 11:40	60803	BUCK_T1	0	0	0	0	0	0	-0.43	-0.45	1	1	0	600	600	0
5/30/2024 11:40	67804	WLAN_T1	4	5	1	0.25	0.16	-0.09	0	0	0	0	0	0	0	0
5/30/2024 11:40	13704	SCHN_T2	1	1	0	0.6	0.6	0	-0.22	-0.02	0	0	0	0	0	0
5/30/2024 11:41	60801	BUCK_T1	1	1	0	0.2	0.1	-0.1	0.08	0.1	0	0	0	0	0	0
5/30/2024 11:42	44301	BEAV_T2	6	10	4	0.52	0.46	-0.06	1.69	2.07	4	4	0	3000	3000	0
5/30/2024 11:42	45902	AUBU_T1	1	2	1	0.7	0.25	-0.45	-0.27	-0.25	1	1	0	600	600	0
5/30/2024 11:42	14204	EALL_T2	4	3	-1	0.33	0.23	-0.1	-0.11	-0.14	0	0	0	0	0	0
5/30/2024 11:42	45901	AUBU_T1	0	0	0	0	0	0	1.14	1.11	0	0	0	0	0	0
5/30/2024 11:43	16101	BING_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/30/2024 11:43	16103	BING_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
5/30/2024 11:43	60801	BUCK_T1	1	1	0	0.2	0.1	-0.1	0.08	0.1	0	0	0	0	0	0
5/30/2024 11:43	16102	BING_T2	1	5	4	0.4	0.24	-0.16	1.25	1.25	0	0	0	0	0	0
5/30/2024 11:43	41801	GOCI_T2	2	18	16	0.75	0.43	-0.32	0	0	0	0	0	0	0	0
5/30/2024 11:43	10801	CHHI_T1	7	8	1	0.5	0.84	0.34	-0.36	-0.44	1	1	0	900	900	0
5/30/2024 11:44	41202	KENM_T2	0	0	0	0	0	0	0.73	0.7	0	0	0	0	0	0
5/30/2024 11:45	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
5/30/2024 11:45	46504	LOHA_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
5/30/2024 11:45	46506	LOHA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/30/2024 11:46	41801	GOCI_T2	7	14	7	0.59	0.41	-0.18	0	0	0	0	0	0	0	0
5/30/2024 11:46	64802	MONE_T2	8	10	2	0.44	0.48	0.04	0.23	0.23	0	0	0	0	0	0
5/30/2024 11:46	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 11:48	60501	NMAN_T2	4	5	1	3.65	3.06	-0.59	0	0	0	0	0	0	0	0
5/30/2024 11:48	60502	NMAN_T2	1	0	-1	0.3	0	-0.3	-0.06	-0.05	0	0	0	0	0	0
5/30/2024 11:48	60504	NMAN_T2	3	2	-1	0.77	0.7	-0.07	0	0	0	0	0	0	0	0
5/30/2024 11:49	46302	ROHR_T1	4	6	2	1.85	1.3	-0.55	0.18	0.17	0	0	0	0	0	0
5/30/2024 11:49	16103	BING_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/30/2024 11:49	46301	ROHR_T1	3	4	1	0.4	0.43	0.03	0	0	0	0	0	0	0	0
5/30/2024 11:49	16102	BING_T2	5	1	-4	0.24	0.6	0.36	0	0	0	0	0	0	0	0
5/30/2024 11:49	16101	BING_T2	1	1	0	0.5	0.7	0.2	0.44	0.48	0	0	0	0	0	0
5/30/2024 11:50	13201	PALM_T1	0	0	0	0	0	0	-1.49	-1.65	1	1	0	1200	1200	0
5/30/2024 11:51	66501	SMAN_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
5/30/2024 11:51	66502	SMAN_T2	1	4	3	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
5/30/2024 11:51	13704	SCHN_T2	1	1	0	0.5	0.6	0.1	-0.22	-0.02	0	0	0	0	0	0
5/30/2024 11:51	66504	SMAN_T2	1	1	0	0.8	0.6	-0.2	-0.2	-0.17	0	0	0	0	0	0
5/30/2024 11:51	13701	SCHN_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
5/30/2024 11:52	43304	WATS_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/30/2024 11:52	43301	WATS_T2	1	3	2	0.5	0.75	0.25	0	0	1	1	0	900	900	0
5/30/2024 11:53	57003	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 11:53	43402	BENT_T1	3	10	7	0.87	0.53	-0.34	-0.67	-0.72	1	1	0	900	900	0
5/30/2024 11:53	57006	WHHI_T2	1	3	2	0.9	0.87	-0.03	0	0	0	0	0	0	0	0
5/30/2024 11:53	57004	WHHI_T2	0	0	0	0	0	0	-0.43	-0.35	0	0	0	0	0	0
5/30/2024 11:53	57002	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 11:53	64101	REFR_T1	2	2	0	0.75	0.9	0.15	-0.01	-0.03	0	0	0	0	0	0
5/30/2024 11:54	67503	WEWI_T2	1	1	0	0.1	0.2	0.1	-0.01	-0.25	0	0	0	0	0	0
5/30/2024 11:54	43402	BENT_T1	3	10	7	0.87	0.53	-0.34	-0.72	-0.67	1	1	0	900	900	0
5/30/2024 11:54	29402	BELT_T1	4	6	2	2.55	1.87	-0.68	0	0	0	0	0	0	0	0
5/30/2024 11:54	46001	BERW_T1	0	0	0	0	0	0	1.02	0.98	0	0	0	0	0	0
5/30/2024 11:54	67502	WEWI_T2	3	3	0	0.73	0.63	-0.1	0	0	0	0	0	0	0	0
5/30/2024 11:54	29401	BELT_T1	5	6	1	0.66	0.53	-0.13	0	0	1	1	0	900	900	0
5/30/2024 11:54	46005	BERW_T1	3	4	1	0.9	0.95	0.05	0	0	0	0	0	0	0	0
5/30/2024 11:55	67503	WEWI_T2	1	1	0	0.1	0.2	0.1	-0.01	-0.25	0	0	0	0	0	0
5/30/2024 11:55	67502	WEWI_T2	3	3	0	0.73	0.63	-0.1	0	0	0	0	0	0	0	0
5/30/2024 11:56	17401	FOHI_T1	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
5/30/2024 11:56	60101	COCA_T1	1	1	0	0.4	0.7	0.3	0.4	0.39	0	0	0	0	0	0
5/30/2024 11:56	46005	BERW_T1	3	4	1	0.9	0.95	0.05	-1.73	-1.7	2	2	0	2100	2100	0
5/30/2024 11:57	60102	COCA_T1	0	0	0	0	0	0	-1.54	-1.05	6	6	0	4200	4200	0
5/30/2024 11:57	46001	BERW_T1	0	0	0	0	0	0	1.02	0.98	0	0	0	0	0	0
5/30/2024 11:57	63501	HEID_TBK1-2	11	6	-5	0.43	0.33	-0.1	0.29	0.35	1	1	0	900	900	0
5/30/2024 11:57	23901	EFMO_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/30/2024 11:57	60101	COCA_T1	1	1	0	0.4	0.7	0.3	0.4	0.39	0	0	0	0	0	0
5/30/2024 11:57	23902	EFMO_T2	1	3	2	0.2	0.35	0.15	0	0	0	0	0	0	0	0
5/30/2024 11:57	46005	BERW_T1	3	4	1	0.9	0.95	0.05	0	0	0	0	0	0	0	0
5/30/2024 11:58	67503	WEWI_T2	1	1	0	0.1	0.2	0.1	-0.01	-0.13	0	0	0	0	0	0
5/30/2024 11:58	46001	BERW_T1	0	0	0	0	0	0	1.02	0.98	0	0	0	0	0	0
5/30/2024 11:58	46005	BERW_T1	3	4	1	0.9	0.95	0.05	0	0	0	0	0	0	0	0
5/30/2024 11:58	67502	WEWI_T2	3	3	0	0.73	0.63	-0.1	0	0	0	0	0	0	0	0
5/30/2024 11:59	60101	COCA_T1	1	1	0	0.4	0.7	0.3	0.4	0.39	0	0	0	0	0	0
5/30/2024 11:59	46002	BERW_T2	2	7	5	0.3	0.41	0.11	-1.25	-1.16	1	1	0	900	900	0
5/30/2024 11:59	14802	TREI_T2	2	2	0	0.15	0.3	0.15	0.56	0.56	0	0	0	0	0	0
5/30/2024 11:59	14801	TREI_T2	4	4	0	0.6	0.63	0.03	0	0	0	0	0	0	0	0
5/30/2024 11:59	46003	BERW_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 11:59	46001	BERW_T1	0	0	0	0	0	0	1.02	0.98	0	0	0	0	0	0
5/30/2024 11:59	46004	BERW_T2	2	4	2	0.4	0.45	0.05	0	0	0	0	0	0	0	0
5/30/2024 11:59	46005	BERW_T1	3	4	1	0.9	0.95	0.05	0	0	0	0	0	0	0	0
5/30/2024 11:59	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 12:00	53903	HALI_T2	3	7	4	1.07	0.89	-0.18	0	0	0	0	0	0	0	0
5/30/2024 12:00	53902	HALI_T2	2	3	1	2.75	2.33	-0.42	0	0	0	0	0	0	0	0
5/30/2024 12:00	53901	HALI_T2	0	2	2	0	0.1	0.1	-0.9	-0.95	0	0	0	0	0	0
5/30/2024 12:00	41801	GOCI_T2	14	6	-8	0.39	0.47	0.08	0	0	0	0	0	0	0	0
5/30/2024 12:00	23902	EFMO_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
5/30/2024 12:00	23901	EFMO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 12:01	59302	MCAL_T1	0	0	0	0	0	0	-0.06	-0.07	1	1	0	600	600	0
5/30/2024 12:01	59301	MCAL_T1	1	8	7	0.8	0.58	-0.22	0	0	0	0	0	0	0	0
5/30/2024 12:02	58101	NEKI_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
5/30/2024 12:02	41801	GOCI_T2	14	6	-8	0.39	0.47	0.08	0	0	0	0	0	0	0	0
5/30/2024 12:02	58102	NEKI_T1	1	2	1	1	1.15	0.15	-0.67	-0.69	1	1	0	1200	1200	0
5/30/2024 12:03	54201	PENN_T1	12	17	5	0.62	0.51	-0.11	0	0	0	0	0	0	0	0
5/30/2024 12:03	40602	PIGR_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/30/2024 12:03	60501	NMAN_T2	5	4	-1	3.02	3.75	0.73	0	0	0	0	0	0	0	0
5/30/2024 12:03	41204	KENM_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
5/30/2024 12:03	54203	PENN_T1	19	21	2	0.65	0.61	-0.04	0.38	0.36	0	0	0	0	0	0
5/30/2024 12:03	40601	PIGR_T1	38	55	17	0.32	0.32	0	0	0	0	0	0	0	0	0
5/30/2024 12:03	60504	NMAN_T2	2	2	0	0.7	0.7	0	1.03	1.02	0	0	0	0	0	0
5/30/2024 12:03	40603	PIGR_T1	3	2	-1	0.27	0.25	-0.02	0.37	0.36	0	0	0	0	0	0
5/30/2024 12:04	40603	PIGR_T1	3	2	-1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
5/30/2024 12:04	40602	PIGR_T1	1	1	0	0.6	0.6	0	-0.4	-0.42	1	1	0	600	600	0
5/30/2024 12:04	12505	MITR_T2	1	1	0	1	0.6	-0.4	1.56	1.59	0	0	0	0	0	0
5/30/2024 12:04	40601	PIGR_T1	38	55	17	0.32	0.32	0	0	0	0	0	0	0	0	0
5/30/2024 12:04	12502	MITR_T2	1	2	1	7.1	7.1	0	0	0	0	0	0	0	0	0
5/30/2024 12:04	54201	PENN_T1	12	17	5	0.62	0.51	-0.11	-0.85	-0.85	0	0	0	0	0	0
5/30/2024 12:04	54203	PENN_T1	19	21	2	0.65	0.61	-0.04	0	0	0	0	0	0	0	0
5/30/2024 12:04	12501	MITR_T2	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
5/30/2024 12:05	42903	MIDD_T2	2	2	0	1.3	0.95	-0.35	0	0	0	0	0	0	0	0
5/30/2024 12:05	54201	PENN_T1	12	17	5	0.62	0.51	-0.11	0	0	0	0	0	0	0	0
5/30/2024 12:05	40601	PIGR_T1	38	55	17	0.32	0.32	0	-0.39	-0.33	0	0	0	0	0	0
5/30/2024 12:05	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 12:05	65205	PRIN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 12:05	54203	PENN_T1	19	21	2	0.65	0.61	-0.04	0.38	0.36	0	0	0	0	0	0
5/30/2024 12:05	40603	PIGR_T1	3	2	-1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
5/30/2024 12:05	42902	MIDD_T2	0	2	2	0	0.2	0.2	-0.12	0.3	1	0	-1	600	0	-600
5/30/2024 12:05	40602	PIGR_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/30/2024 12:07	42201	SHEN_T2	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
5/30/2024 12:07	54201	PENN_T1	12	17	5	0.62	0.51	-0.11	-1.69	-1.7	0	0	0	0	0	0
5/30/2024 12:07	40602	PIGR_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/30/2024 12:07	54203	PENN_T1	19	21	2	0.65	0.61	-0.04	0	0	0	0	0	0	0	0
5/30/2024 12:07	40603	PIGR_T1	3	2	-1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
5/30/2024 12:07	42204	SHEN_T2	0	0	0	0	0	0	0.01	0.03	1	1	0	1200	1200	0
5/30/2024 12:07	58001	WCAR_T1	6	6	0	0.95	0.65	-0.3	0	0	0	0	0	0	0	0
5/30/2024 12:07	40601	PIGR_T1	38	55	17	0.32	0.32	0	-0.39	-0.33	0	0	0	0	0	0
5/30/2024 12:07	58003	WCAR_T1	12	15	3	0.42	0.47	0.05	0.95	0.92	0	0	0	0	0	0
5/30/2024 12:08	42802	SELI_T1	1	1	0	0.3	0.5	0.2	-0.57	-0.6	1	1	0	900	900	0
5/30/2024 12:08	40602	PIGR_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
5/30/2024 12:08	54206	PENN_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
5/30/2024 12:08	40603	PIGR_T1	3	2	-1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
5/30/2024 12:08	40601	PIGR_T1	38	55	17	0.32	0.32	0	-0.33	-0.37	0	0	0	0	0	0
5/30/2024 12:09	42802	SELI_T1	1	1	0	0.3	0.5	0.2	-0.6	-0.6	1	1	0	900	900	0
5/30/2024 12:09	45902	AUBU_T1	1	3	2	0.3	0.43	0.13	-0.29	-0.28	1	1	0	600	600	0
5/30/2024 12:09	46101	MACI_T2	0	0	0	0	0	0	0.55	0.45	1	1	0	1200	1200	0
5/30/2024 12:10	45902	AUBU_T1	1	3	2	0.3	0.43	0.13	-0.29	-0.28	1	1	0	600	600	0
5/30/2024 12:11	61801	EELI_T2	1	2	1	0.2	0.3	0.1	-0.52	-0.48	1	1	0	600	600	0
5/30/2024 12:11	57003	WHHI_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/30/2024 12:11	57006	WHHI_T2	1	3	2	0.5	0.9	0.4	0.35	0.38	1	1	0	600	600	0
5/30/2024 12:11	21203	ECAR_T1	62	132	70	0.42	0.55	0.13	0.75	0.73	0	0	0	0	0	0
5/30/2024 12:11	57002	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 12:11	61803	EELI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/30/2024 12:12	41801	GOCI_T2	14	6	-8	0.39	0.47	0.08	0	0	0	0	0	0	0	0
5/30/2024 12:12	17401	FOHI_T1	0	0	0	0	0	0	-0.88	-0.83	0	0	0	0	0	0
5/30/2024 12:13	63801	HEMP_T1	4	9	5	0.48	0.57	0.09	-0.52	-0.55	1	1	0	900	900	0
5/30/2024 12:13	63803	HEMP_T1	2	3	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/30/2024 12:13	63804	HEMP_T1	2	2	0	3.15	3.15	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/30/2024 12:13	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 12:14	52403	GRPA_T2	3	3	0	0.57	0.4	-0.17	0.22	0.18	0	0	0	0	0	0
5/30/2024 12:14	52402	GRPA_T2	78	21	-57	0.38	0.52	0.14	-1.36	-1.59	0	0	0	0	0	0
5/30/2024 12:14	52401	GRPA_T2	2	0	-2	0.2	0	-0.2	-0.47	-0.46	0	0	0	0	0	0
5/30/2024 12:14	25404	LAHA_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/30/2024 12:14	25402	LAHA_T2	62	14	-48	0.14	0.26	0.12	-0.83	-0.84	0	0	0	0	0	0
5/30/2024 12:15	63804	HEMP_T1	2	2	0	3.2	3.15	-0.05	-0.48	-0.39	0	0	0	0	0	0
5/30/2024 12:15	63801	HEMP_T1	9	6	-3	0.56	0.55	-0.01	0	0	0	0	0	0	0	0
5/30/2024 12:15	43402	BENT_T1	3	13	10	0.53	0.59	0.06	-0.67	-0.67	1	1	0	900	900	0
5/30/2024 12:15	63802	HEMP_T1	0	1	1	0	0.1	0.1	0.26	0.28	0	0	0	0	0	0
5/30/2024 12:15	22901	HARW_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
5/30/2024 12:15	63803	HEMP_T1	2	3	1	0.35	0.27	-0.08	0	0	0	0	0	0	0	0
5/30/2024 12:15	22904	HARW_T1	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
5/30/2024 12:16	52403	GRPA_T2	1	3	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/30/2024 12:16	43402	BENT_T1	3	13	10	0.53	0.59	0.06	-0.67	-0.67	1	1	0	900	900	0
5/30/2024 12:16	41802	GOO_T2	1	0	-1	3.8	0	-3.8	0	0	0	0	0	0	0	0
5/30/2024 12:16	52402	GRPA_T2	11	21	10	0.51	0.51	0	-0.68	-0.8	0	0	0	0	0	0
5/30/2024 12:16	12502	MITR_T2	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
5/30/2024 12:16	12501	MITR_T2	1	1	0	6.5	3.4	-3.1	0	0	0	0	0	0	0	0
5/30/2024 12:16	12505	MITR_T2	0	1	1	0	0.9	0.9	1.59	1.74	0	0	0	0	0	0
5/30/2024 12:16	63601	LETO_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/30/2024 12:16	41801	GOO_T2	5	4	-1	0.42	0.43	0.01	0	0	0	0	0	0	0	0
5/30/2024 12:16	63602	LETO_T1	3	2	-1	0.6	0.75	0.15	-0.25	-0.2	0	0	0	0	0	0
5/30/2024 12:17	46504	LOHA_T1	2	1	-1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
5/30/2024 12:17	46505	LOHA_T1	0	0	0	0	0	0	0.36	0.28	0	0	0	0	0	0
5/30/2024 12:17	58003	WCAR_T1	15	10	-5	0.43	0.55	0.12	0	0	0	0	0	0	0	0
5/30/2024 12:17	63601	LETO_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/30/2024 12:17	63602	LETO_T1	3	2	-1	0.6	0.75	0.15	-0.25	-0.2	0	0	0	0	0	0
5/30/2024 12:17	58001	WCAR_T1	6	6	0	0.62	0.68	0.06	0.87	0.94	0	0	0	0	0	0
5/30/2024 12:17	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
5/30/2024 12:18	54203	PENN_T1	21	21	0	0.56	0.57	0.01	0.36	0.39	0	0	0	0	0	0
5/30/2024 12:18	54201	PENN_T1	14	15	1	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
5/30/2024 12:18	63601	LETO_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/30/2024 12:18	58401	MORO_T1	0	0	0	0	0	0	-0.73	-0.73	1	1	0	600	600	0
5/30/2024 12:18	63602	LETO_T1	3	2	-1	0.6	0.75	0.15	-0.49	-0.39	0	0	0	0	0	0
5/30/2024 12:19	40601	PIGR_T1	55	7	-48	0.32	0.34	0.02	0	0	0	0	0	0	0	0
5/30/2024 12:19	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
5/30/2024 12:19	40602	PIGR_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
5/30/2024 12:19	58402	MORO_T1	0	0	0	0	0	0	-0.08	-0.1	2	2	0	1500	1500	0
5/30/2024 12:19	40603	PIGR_T1	0	2	2	0	0.25	0.25	0.36	0.37	0	0	0	0	0	0
5/30/2024 12:19	46504	LOHA_T1	2	1	-1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
5/30/2024 12:20	58202	NEWV_T1	9	5	-4	0.23	0.34	0.11	0.23	0.31	0	0	0	0	0	0
5/30/2024 12:20	40602	PIGR_T1	1	1	0	0.6	0.9	0.3	-0.42	-0.38	1	1	0	600	600	0
5/30/2024 12:20	58201	NEWV_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/30/2024 12:20	40601	PIGR_T1	55	7	-48	0.32	0.34	0.02	0	0	0	0	0	0	0	0
5/30/2024 12:20	40603	PIGR_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/30/2024 12:21	58102	NEKI_T1	2	2	0	1	1.15	0.15	-0.69	-0.67	1	1	0	1200	1200	0
5/30/2024 12:21	58101	NEKI_T1	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/30/2024 12:21	40603	PIGR_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/30/2024 12:21	40602	PIGR_T1	1	1	0	0.6	0.9	0.3	-0.42	-0.38	1	1	0	600	600	0
5/30/2024 12:21	67203	TEHI_T1	0	5	5	0	0.4	0.4	2.37	2.52	3	3	0	2100	2100	0
5/30/2024 12:21	40601	PIGR_T1	55	7	-48	0.32	0.34	0.02	0	0	0	0	0	0	0	0
5/30/2024 12:22	17001	RIRO_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/30/2024 12:23	43301	WATS_T2	1	2	1	0.8	0.6	-0.2	0	0	1	1	0	900	900	0
5/30/2024 12:23	43304	WATS_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
5/30/2024 12:24	14802	TREI_T2	2	2	0	0.3	0.3	0	0.6	0.58	0	0	0	0	0	0
5/30/2024 12:24	24104	EHAZ_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/30/2024 12:24	24105	EHAZ_T1	4	4	0	6.23	6.38	0.15	0	0	0	0	0	0	0	0
5/30/2024 12:24	24101	EHAZ_T1	1	23	22	1.4	0.33	-1.07	0	0	0	0	0	0	0	0
5/30/2024 12:24	14801	TREI_T2	4	4	0	0.53	0.78	0.25	0	0	0	0	0	0	0	0
5/30/2024 12:24	24102	EHAZ_T1	1	2	1	1.3	1.1	-0.2	0.16	0.12	0	0	0	0	0	0
5/30/2024 12:28	29402	BELT_T1	6	6	0	1.85	1.73	-0.12	0	0	0	0	0	0	0	0
5/30/2024 12:28	29401	BELT_T1	5	5	0	0.6	0.6	0	0	0	1	1	0	900	900	0
5/30/2024 12:29	14203	EALL_T1	4	3	-1	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/30/2024 12:29	14201	EALL_T1	0	0	0	0	0	0	0.76	0.71	0	0	0	0	0	0
5/30/2024 12:31	25502	MADI_T1	2	2	0	0.95	1	0.05	0	0	0	0	0	0	0	0
5/30/2024 12:31	25503	MADI_T1	192	158	-34	0.66	0.56	-0.1	-0.91	-0.9	0	0	0	0	0	0
5/30/2024 12:31	25501	MADI_T1	2	3	1	1.35	0.97	-0.38	0	0	0	0	0	0	0	0
5/30/2024 12:31	47001	HUGH_T2	1	0	-1	0.1	0	-0.1	-0.3	-0.18	0	0	0	0	0	0
5/30/2024 12:31	47002	HUGH_T2	1	0	-1	0.2	0	-0.2	-0.73	-0.47	0	0	0	0	0	0
5/30/2024 12:32	52004	LING_T2	2	4	2	0.2	0.78	0.58	0.38	0.44	0	0	0	0	0	0
5/30/2024 12:33	42902	MIDD_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/30/2024 12:33	42903	MIDD_T2	2	0	-2	0.75	0	-0.75	1.26	2.29	0	0	0	0	0	0
5/30/2024 12:34	65603	QVIL_T2	0	0	0	0	0	0	0.34	0.62	0	0	0	0	0	0
5/30/2024 12:34	65501	MOJO_T1	0	0	0	0	0	0	-1.01	-1.02	1	1	0	900	900	0
5/30/2024 12:35	65604	QVIL_T2	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
5/30/2024 12:37	65904	SAKR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/30/2024 12:37	65901	SAKR_T2	1	1	0	7.3	7.3	0	0	0	0	0	0	0	0	0
5/30/2024 12:37	65903	SAKR_T2	0	0	0	0	0	0	-0.94	-0.92	3	3	0	2100	2100	0
5/30/2024 12:37	44701	MUNC_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/30/2024 12:37	44703	MUNC_T2	2	2	0	0.5	0.3	-0.2	0.84	0.8	0	0	0	0	0	0
5/30/2024 12:38	13701	SCHN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/30/2024 12:38	13704	SCHN_T2	1	1	0	0.4	0.5	0.1	-0.01	-0.17	0	0	0	0	0	0
5/30/2024 12:38	57104	SPHI_T2	1	2	1	1.8	1.4	-0.4	0	0	0	0	0	0	0	0
5/30/2024 12:38	57106	SPHI_T2	3	3	0	1.27	1.1	-0.17	0	0	0	0	0	0	0	0
5/30/2024 12:38	57103	SPHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 12:38	57101	SPHI_T2	6	4	-2	0.28	0.1	-0.18	0.4	0.41	0	0	0	0	0	0
5/30/2024 12:40	46003	BERW_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/30/2024 12:40	46004	BERW_T2	2	3	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/30/2024 12:40	46002	BERW_T2	1	1	0	0.7	0.5	-0.2	-1.09	-1.01	1	1	0	900	900	0
5/30/2024 12:41	46003	BERW_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/30/2024 12:41	46002	BERW_T2	1	1	0	0.7	0.5	-0.2	-1.09	-1.01	1	1	0	900	900	0
5/30/2024 12:41	29401	BELT_T1	5	6	1	0.56	0.52	-0.04	0	0	1	1	0	900	900	0
5/30/2024 12:41	46004	BERW_T2	2	3	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/30/2024 12:41	29402	BELT_T1	6	6	0	1.65	1.77	0.12	0	0	0	0	0	0	0	0
5/30/2024 12:42	61001	DONV_T1	2	2	0	0.75	0.85	0.1	-0.06	-0.06	0	0	0	0	0	0
5/30/2024 12:42	45501	DERR_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 12:42	45502	DERR_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
5/30/2024 12:42	46005	BERW_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
5/30/2024 12:42	46001	BERW_T1	0	0	0	0	0	0	1.98	2.05	0	0	0	0	0	0
5/30/2024 12:43	46003	BERW_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/30/2024 12:43	46002	BERW_T2	1	1	0	0.7	0.5	-0.2	-1.09	-1.01	1	1	0	900	900	0
5/30/2024 12:43	46004	BERW_T2	2	3	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/30/2024 12:44	29401	BELT_T1	5	6	1	0.56	0.52	-0.04	0	0	1	1	0	900	900	0
5/30/2024 12:44	29402	BELT_T1	6	6	0	1.65	1.77	0.12	0	0	0	0	0	0	0	0
5/30/2024 12:50	12802	MICK_T1	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
5/30/2024 12:50	58402	MORO_T1	0	0	0	0	0	0	-0.07	-0.08	2	2	0	1500	1500	0
5/30/2024 12:50	66504	SMAN_T2	0	0	0	0	0	0	-0.18	-0.07	0	0	0	0	0	0
5/30/2024 12:50	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/30/2024 12:50	66502	SMAN_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
5/30/2024 12:51	67103	SPRI_T1	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
5/30/2024 12:52	45901	AUBU_T1	0	0	0	0	0	0	1.17	1.88	0	0	0	0	0	0
5/30/2024 12:52	57004	WHHI_T2	0	0	0	0	0	0	-0.39	-0.29	0	0	0	0	0	0
5/30/2024 12:52	45902	AUBU_T1	2	1	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/30/2024 12:52	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 12:52	57003	WHHI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
5/30/2024 12:53	45901	AUBU_T1	0	0	0	0	0	0	1.88	1.9	0	0	0	0	0	0
5/30/2024 12:53	66502	SMAN_T2	1	1	0	0.4	0.5	0.1	0.39	0.39	0	0	0	0	0	0
5/30/2024 12:53	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/30/2024 12:53	67804	WLAN_T1	2	2	0	0.2	0.15	-0.05	-0.96	-1	0	0	0	0	0	0
5/30/2024 12:53	66503	SMAN_T2	0	0	0	0	0	0	0.47	0.54	0	0	0	0	0	0
5/30/2024 12:53	67803	WLAN_T1	3	3	0	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
5/30/2024 12:53	45902	AUBU_T1	2	1	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/30/2024 12:54	67803	WLAN_T1	3	3	0	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
5/30/2024 12:54	67804	WLAN_T1	2	2	0	0.2	0.15	-0.05	-0.96	-1	0	0	0	0	0	0
5/30/2024 12:55	67804	WLAN_T1	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/30/2024 12:55	67803	WLAN_T1	3	3	0	0.33	0.2	-0.13	-0.76	-0.73	0	0	0	0	0	0
5/30/2024 12:56	48303	ORWI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 12:56	48302	ORWI_T2	2	2	0	0.65	1	0.35	0	0	0	0	0	0	0	0
5/30/2024 12:57	45902	AUBU_T1	2	1	-1	0.5	0.2	-0.3	-0.4	-0.3	1	1	0	600	600	0
5/30/2024 12:58	53601	DALM_T2	1	1	0	0.8	1.1	0.3	-0.05	-0.26	1	1	0	900	900	0
5/30/2024 12:59	45801	HEGI_T1	0	0	0	0	0	0	0.04	0.11	1	1	0	900	900	0
5/30/2024 13:00	52402	GRPA_T2	8	16	8	0.44	0.44	0	0	0	0	0	0	0	0	0
5/30/2024 13:00	11205	ELHE_T1	0	0	0	0	0	0	-0.48	-0.46	1	1	0	1200	1200	0
5/30/2024 13:00	52403	GRPA_T2	1	1	0	0.1	0.7	0.6	0.18	0.23	0	0	0	0	0	0
5/30/2024 13:00	43402	BENT_T1	5	9	4	0.6	0.57	-0.03	-0.65	-0.71	1	1	0	900	900	0
5/30/2024 13:01	52402	GRPA_T2	8	16	8	0.44	0.44	0	-1.58	-1.56	0	0	0	0	0	0
5/30/2024 13:01	45802	HEGI_T2	0	0	0	0	0	0	1.16	1.29	0	0	0	0	0	0
5/30/2024 13:01	43402	BENT_T1	5	9	4	0.6	0.57	-0.03	-0.65	-0.71	1	1	0	900	900	0
5/30/2024 13:01	52403	GRPA_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
5/30/2024 13:02	45802	HEGI_T2	0	0	0	0	0	0	1.16	1.29	0	0	0	0	0	0
5/30/2024 13:04	67204	TEHI_T2	0	1	1	0	0.2	0.2	-0.35	-0.03	0	0	0	0	0	0
5/30/2024 13:05	66501	SMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
5/30/2024 13:05	43103	SMIL_T2	19	18	-1	0.49	0.39	-0.1	0	0	0	0	0	0	0	0
5/30/2024 13:05	49803	UNIV_T1	0	1	1	0	0.8	0.8	-0.94	-0.86	0	0	0	0	0	0
5/30/2024 13:05	13606	RICH_T2	1	1	0	7.4	7.1	-0.3	0	0	0	0	0	0	0	0
5/30/2024 13:05	43101	SMIL_T2	3	1	-2	0.4	1.2	0.8	-0.62	-0.64	0	0	0	0	0	0
5/30/2024 13:05	43108	SMIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 13:05	66503	SMAN_T2	0	0	0	0	0	0	0.47	0.54	0	0	0	0	0	0
5/30/2024 13:05	43105	SMIL_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
5/30/2024 13:05	66502	SMAN_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/30/2024 13:05	43104	SMIL_T2	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
5/30/2024 13:05	13601	RICH_T2	0	0	0	0	0	0	0.16	0.18	1	1	0	600	600	0
5/30/2024 13:05	43102	SMIL_T2	6	3	-3	0.32	0.4	0.08	0	0	0	0	0	0	0	0
5/30/2024 13:06	43104	SMIL_T2	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
5/30/2024 13:06	43101	SMIL_T2	3	1	-2	0.4	1.2	0.8	0	0	0	0	0	0	0	0
5/30/2024 13:06	43102	SMIL_T2	6	3	-3	0.32	0.4	0.08	-0.69	-0.71	1	1	0	600	600	0
5/30/2024 13:06	43103	SMIL_T2	19	18	-1	0.49	0.39	-0.1	0	0	0	0	0	0	0	0
5/30/2024 13:06	67604	WARW_T1	0	0	0	0	0	0	0.64	0.52	0	0	0	0	0	0
5/30/2024 13:06	43108	SMIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 13:06	67605	WARW_T1	19	23	4	0.69	0.67	-0.02	0	0	0	0	0	0	0	0
5/30/2024 13:06	43105	SMIL_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
5/30/2024 13:06	67603	WARW_T1	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/30/2024 13:06	42802	SELI_T1	1	1	0	0.3	0.1	-0.2	-0.54	-0.52	1	1	0	900	900	0
5/30/2024 13:06	58402	MORO_T1	0	0	0	0	0	0	-0.08	0.02	2	2	0	1500	1500	0
5/30/2024 13:07	43102	SMIL_T2	6	3	-3	0.32	0.4	0.08	-0.69	-0.71	1	1	0	600	600	0
5/30/2024 13:07	65904	SAKR_T2	0	0	0	0	0	0	-1.6	-1.6	3	3	0	1500	1500	0
5/30/2024 13:07	43108	SMIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 13:07	43101	SMIL_T2	3	1	-2	0.4	1.2	0.8	0	0	0	0	0	0	0	0
5/30/2024 13:07	43104	SMIL_T2	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
5/30/2024 13:07	65901	SAKR_T2	1	2	1	7.2	4.25	-2.95	0	0	0	0	0	0	0	0
5/30/2024 13:07	43103	SMIL_T2	19	18	-1	0.49	0.39	-0.1	-0.75	-0.78	0	0	0	0	0	0
5/30/2024 13:07	43105	SMIL_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
5/30/2024 13:08	43102	SMIL_T2	6	3	-3	0.32	0.4	0.08	0	0	0	0	0	0	0	0
5/30/2024 13:08	43104	SMIL_T2	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
5/30/2024 13:08	43103	SMIL_T2	19	18	-1	0.49	0.39	-0.1	-0.75	-0.78	0	0	0	0	0	0
5/30/2024 13:08	43108	SMIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 13:08	43105	SMIL_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
5/30/2024 13:08	43101	SMIL_T2	3	1	-2	0.4	1.2	0.8	0	0	0	0	0	0	0	0
5/30/2024 13:09	58006	WCAR_T2	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
5/30/2024 13:09	67604	WARW_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
5/30/2024 13:09	51004	NHAR_T1	2	2	0	3.3	3.35	0.05	0	0	0	0	0	0	0	0
5/30/2024 13:09	67603	WARW_T1	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
5/30/2024 13:09	51002	NHAR_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
5/30/2024 13:09	58002	WCAR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 13:09	67605	WARW_T1	19	23	4	0.69	0.67	-0.02	0	0	0	0	0	0	0	0
5/30/2024 13:09	51003	NHAR_T1	0	0	0	0	0	0	-1.43	-1.45	1	1	0	1200	1200	0
5/30/2024 13:10	67204	TEHI_T2	0	1	1	0	0.2	0.2	-0.03	-0.01	0	0	0	0	0	0
5/30/2024 13:11	58006	WCAR_T2	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
5/30/2024 13:11	58002	WCAR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 13:12	63304	GREE_T1	0	0	0	0	0	0	-1.38	-1.32	1	1	0	1200	1200	0
5/30/2024 13:12	45802	HEGI_T2	0	0	0	0	0	0	1.29	1.2	0	0	0	0	0	0
5/30/2024 13:12	44301	BEAV_T2	2	4	2	0.95	0.53	-0.42	1.06	1.09	2	2	0	1500	1500	0
5/30/2024 13:12	63305	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 13:13	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 13:13	54506	ENOL_T2	0	0	0	0	0	0	0.52	0.52	1	1	0	600	600	0
5/30/2024 13:13	29402	BELT_T1	5	5	0	2.08	2.1	0.02	0	0	0	0	0	0	0	0
5/30/2024 13:13	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 13:13	29401	BELT_T1	6	5	-1	0.45	0.66	0.21	0	0	1	1	0	900	900	0
5/30/2024 13:15	29401	BELT_T1	5	5	0	0.66	0.56	-0.1	0	0	1	1	0	900	900	0
5/30/2024 13:15	29402	BELT_T1	4	5	1	2.5	1.98	-0.52	0	0	0	0	0	0	0	0
5/30/2024 13:16	63304	GREE_T1	0	0	0	0	0	0	-1.38	-1.32	1	1	0	1200	1200	0
5/30/2024 13:16	65003	NEFF_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 13:16	13503	MCMI_T2	12	8	-4	0.58	0.68	0.1	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 13:16	63305	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 13:16	65005	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 13:16	65001	NEFF_T2	0	0	0	0	0	0	-0.23	-0.21	1	1	0	1200	1200	0
5/30/2024 13:16	40101	HUNT_T2	0	1	1	0	0.4	0.4	-0.21	0	0	0	0	0	0	0
5/30/2024 13:19	22405	MORG_T2	1	0	-1	0.4	0	-0.4	-0.04	-0.05	0	0	0	0	0	0
5/30/2024 13:19	22401	MORG_T2	3	1	-2	0.37	0.8	0.43	0	0	0	0	0	0	0	0
5/30/2024 13:20	25402	LAHA_T2	2	2	0	0.4	0.65	0.25	-0.43	-0.2	0	0	0	0	0	0
5/30/2024 13:21	43402	BENT_T1	9	64	55	0.54	0.28	-0.26	-0.71	-0.69	1	1	0	900	900	0
5/30/2024 13:21	57104	SPHI_T2	2	3	1	1.25	0.87	-0.38	-0.77	-0.81	1	1	0	900	900	0
5/30/2024 13:21	57103	SPHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 13:21	57101	SPHI_T2	6	6	0	0.27	0.42	0.15	0	0	0	0	0	0	0	0
5/30/2024 13:21	66505	SMAN_T2	0	0	0	0	0	0	1.66	1.51	2	2	0	1800	1800	0
5/30/2024 13:21	66501	SMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
5/30/2024 13:21	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 13:21	57106	SPHI_T2	3	4	1	1.17	1.2	0.03	0	0	0	0	0	0	0	0
5/30/2024 13:22	66501	SMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
5/30/2024 13:22	22405	MORG_T2	1	0	-1	0.4	0	-0.4	-0.04	-0.05	0	0	0	0	0	0
5/30/2024 13:22	43402	BENT_T1	9	64	55	0.54	0.28	-0.26	-0.71	-0.69	1	1	0	900	900	0
5/30/2024 13:22	66502	SMAN_T2	0	1	1	0	0.1	0.1	0.39	0.39	0	0	0	0	0	0
5/30/2024 13:22	14602	SWHI_T1	1	1	0	1.2	0.3	-0.9	0	0	0	0	0	0	0	0
5/30/2024 13:22	22401	MORG_T2	3	1	-2	0.37	0.8	0.43	0	0	0	0	0	0	0	0
5/30/2024 13:22	14601	SWHI_T1	5	3	-2	0.28	0.47	0.19	-0.8	-0.81	0	0	0	0	0	0
5/30/2024 13:22	14603	SWHI_T1	6	8	2	0.5	0.53	0.03	0	0	0	0	0	0	0	0
5/30/2024 13:23	57104	SPHI_T2	2	3	1	1.25	0.87	-0.38	0	0	0	0	0	0	0	0
5/30/2024 13:23	57101	SPHI_T2	6	6	0	0.27	0.42	0.15	0.43	0.44	0	0	0	0	0	0
5/30/2024 13:23	10203	ALLE_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/30/2024 13:23	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 13:23	57103	SPHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 13:23	57106	SPHI_T2	3	4	1	1.17	1.2	0.03	0	0	0	0	0	0	0	0
5/30/2024 13:23	10102	ALLE_T2	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
5/30/2024 13:28	63306	GREE_T1	0	0	0	0	0	0	-0.97	-0.88	0	0	0	0	0	0
5/30/2024 13:28	63305	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 13:29	54505	ENOL_T2	1	0	-1	0.1	0	-0.1	-1.22	-1.19	1	1	0	600	600	0
5/30/2024 13:29	45501	DERR_T2	1	2	1	0.1	0.55	0.45	0.68	0.68	2	2	0	1800	1800	0
5/30/2024 13:29	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 13:30	63306	GREE_T1	0	0	0	0	0	0	-0.97	-0.88	0	0	0	0	0	0
5/30/2024 13:30	63305	GREE_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/30/2024 13:32	45801	HEGI_T1	0	0	0	0	0	0	0.06	0.08	1	1	0	900	900	0
5/30/2024 13:32	40101	HUNT_T2	1	1	0	0.4	0.3	-0.1	0	-0.26	0	0	0	0	0	0
5/30/2024 13:33	42903	MIDD_T2	0	2	2	0	1.35	1.35	0	0	0	0	0	0	0	0
5/30/2024 13:33	42902	MIDD_T2	0	2	2	0	0.25	0.25	-0.26	-0.2	1	1	0	600	600	0
5/30/2024 13:34	61202	REIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 13:34	13302	ORVI_T2	2	2	0	0.8	0.55	-0.25	1.66	1.69	0	0	0	0	0	0
5/30/2024 13:36	40402	PIGR_T1	1	1	0	1	0.9	-0.1	-0.7	-0.72	2	2	0	1200	1200	0
5/30/2024 13:36	40601	PIGR_T1	2	8	6	0.3	0.39	0.09	0	0	0	0	0	0	0	0
5/30/2024 13:37	40601	PIGR_T1	2	8	6	0.3	0.39	0.09	0	0	0	0	0	0	0	0
5/30/2024 13:37	40602	PIGR_T1	1	1	0	1	0.9	-0.1	-0.35	-0.36	1	1	0	600	600	0
5/30/2024 13:41	29401	BELT_T1	5	5	0	0.56	0.54	-0.02	0	0	2	2	0	1800	1800	0
5/30/2024 13:41	58002	WCAR_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 13:41	29402	BELT_T1	5	3	-2	1.96	3.07	1.11	0	0	0	0	0	0	0	0
5/30/2024 13:41	58006	WCAR_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
5/30/2024 13:42	56801	BENV_T1	26	15	-11	0.8	0.69	-0.11	-0.59	-0.6	3	3	0	1800	1800	0
5/30/2024 13:42	56802	BENV_T2	70	162	92	0.26	0.28	0.02	-1.22	-0.6	0	0	0	0	0	0
5/30/2024 13:42	61701	ELIZ_T1	2	2	0	2.95	2.85	-0.1	0.51	0.65	0	0	0	0	0	0
5/30/2024 13:42	63305	GREE_T1	1	1	0	0.1	0	-0.1	-1.77	-1.8	1	1	0	900	900	0
5/30/2024 13:42	56803	BENV_T1	1	2	1	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
5/30/2024 13:43	56801	BENV_T1	26	15	-11	0.8	0.69	-0.11	-0.79	-0.8	4	4	0	2400	2400	0
5/30/2024 13:43	63305	GREE_T1	1	1	0	0.1	0	-0.1	-1.77	-1.8	1	1	0	900	900	0
5/30/2024 13:43	56803	BENV_T1	1	2	1	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
5/30/2024 13:43	45902	AUBU_T1	0	0	0	0	0	0	-0.47	-0.75	1	1	0	600	600	0
5/30/2024 13:43	56802	BENV_T2	70	162	92	0.26	0.28	0.02	-1.22	-0.6	0	0	0	0	0	0
5/30/2024 13:44	61802	EELI_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
5/30/2024 13:44	56802	BENV_T2	70	162	92	0.26	0.28	0.02	-1.22	-0.6	0	0	0	0	0	0
5/30/2024 13:44	29401	BELT_T1	5	5	0	0.56	0.54	-0.02	0	0	1	1	0	900	900	0
5/30/2024 13:44	29402	BELT_T1	5	3	-2	1.96	3.07	1.11	0	0	0	0	0	0	0	0
5/30/2024 13:45	61802	EELI_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
5/30/2024 13:45	61801	EELI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/30/2024 13:45	56803	BENV_T1	3	2	-1	3.73	0.45	-3.28	0	0	0	0	0	0	0	0
5/30/2024 13:45	56801	BENV_T1	14	22	8	0.69	0.89	0.2	-0.2	-0.2	1	1	0	600	600	0
5/30/2024 13:46	12802	MICK_T1	0	0	0	0	0	0	-0.92	-0.89	0	0	0	0	0	0
5/30/2024 13:46	12807	MICK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 13:47	13503	MCMI_T2	8	16	8	0.66	0.6	-0.06	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 13:52	57101	SPHI_T2	6	6	0	0.42	0.23	-0.19	0.44	0.43	0	0	0	0	0	0
5/30/2024 13:52	57103	SPHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/30/2024 13:52	57104	SPHI_T2	3	5	2	0.9	0.98	0.08	0	0	0	0	0	0	0	0
5/30/2024 13:52	57106	SPHI_T2	4	5	1	1.15	0.88	-0.27	0	0	0	0	0	0	0	0
5/30/2024 13:53	65901	SAKR_T2	1	2	1	8.1	4.35	-3.75	-1.13	-1.19	2	2	0	1500	1500	0
5/30/2024 13:53	65904	SAKR_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
5/30/2024 13:54	45402	WBLO_T2	3	1	-2	0.57	0.7	0.13	-1.14	-1.13	0	0	0	0	0	0
5/30/2024 13:54	10805	CHHI_T2	3	1	-2	5.73	8.8	3.07	-0.61	-0.67	1	1	0	600	600	0
5/30/2024 13:55	67501	WEWI_T1	4	7	3	1	0.76	-0.24	0	0	0	0	0	0	0	0
5/30/2024 13:55	67505	WEWI_T1	1	1	0	0.1	0.1	0	-0.08	0	1	1	0	900	900	0
5/30/2024 13:56	29401	BELT_T1	4	7	3	0.55	0.54	-0.01	0	0	1	1	0	900	900	0
5/30/2024 13:56	67501	WEWI_T1	4	7	3	1	0.76	-0.24	-2.04	-1.77	2	2	0	1200	1200	0
5/30/2024 13:56	67503	WEWI_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
5/30/2024 13:56	44301	BEAV_T2	4	2	-2	0.48	0.45	-0.03	1.15	0.74	2	2	0	1500	1500	0
5/30/2024 13:56	67505	WEWI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/30/2024 13:56	29402	BELT_T1	3	5	2	3	2	-1	0	0	0	0	0	0	0	0
5/30/2024 13:56	67502	WEWI_T2	3	8	5	0.5	0.53	0.03	0	0	0	0	0	0	0	0
5/30/2024 13:57	67501	WEWI_T1	4	7	3	1	0.76	-0.24	-1.02	-0.89	1	1	0	600	600	0
5/30/2024 13:57	67502	WEWI_T2	3	8	5	0.5	0.53	0.03	-0.24	-0.18	0	0	0	0	0	0
5/30/2024 13:57	67505	WEWI_T1	1	1	0	0.1	0.1	0	-0.08	0	1	1	0	900	900	0
5/30/2024 13:58	60104	COCA_T2	6	0	-6	0.47	0	-0.47	0	0	0	0	0	0	0	0
5/30/2024 13:58	60101	COCA_T1	1	3	2	0.4	0.8	0.4	0.41	0.46	0	0	0	0	0	0
5/30/2024 13:58	60103	COCA_T2	0	0	0	0	0	0	0.68	-0.4	1	2	1	900	2100	1200
5/30/2024 13:59	60104	COCA_T2	6	0	-6	0.47	0	-0.47	0	0	0	0	0	0	0	0
5/30/2024 13:59	60103	COCA_T2	0	0	0	0	0	0	0.68	-0.4	1	2	1	900	2100	1200
5/30/2024 13:59	63401	HONY_T1	0	0	0	0	0	0	0.16	0.23	1	1	0	600	600	0
5/30/2024 14:00	63401	HONY_T1	0	0	0	0	0	0	0.16	0.23	1	1	0	600	600	0
5/30/2024 14:01	63401	HONY_T1	0	0	0	0	0	0	0.16	0.23	1	1	0	600	600	0
5/30/2024 14:03	13503	MCMI_T2	8	17	9	0.73	0.63	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 14:05	58401	MORO_T1	0	0	0	0	0	0	-0.61	-0.62	1	1	0	600	600	0
5/30/2024 14:07	13704	SCHN_T2	1	1	0	0.3	0.5	0.2	-0.02	0.09	0	0	0	0	0	0
5/30/2024 14:07	13701	SCHN_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
5/30/2024 14:08	51303	WIND_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 14:08	51301	WIND_T1	4	5	1	0.45	0.48	0.03	-0.29	-0.24	0	0	0	0	0	0
5/30/2024 14:08	51305	WIND_T1	1	4	3	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/30/2024 14:09	45901	AUBU_T1	0	0	0	0	0	0	2.3	2.43	0	0	0	0	0	0
5/30/2024 14:09	45902	AUBU_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/30/2024 14:10	51302	WIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 14:10	51304	WIND_T2	0	1	1	0	0.1	0.1	0.06	0.12	0	0	0	0	0	0
5/30/2024 14:10	51306	WIND_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
5/30/2024 14:11	51305	WIND_T1	1	4	3	0.8	0.6	-0.2	0.27	0.27	0	0	0	0	0	0
5/30/2024 14:11	51301	WIND_T1	4	5	1	0.45	0.48	0.03	0	0	0	0	0	0	0	0
5/30/2024 14:11	51303	WIND_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 14:12	52204	DEVO_T2	1	2	1	1.4	1.05	-0.35	0	0	0	0	0	0	0	0
5/30/2024 14:12	61801	EELI_T2	0	0	0	0	0	0	-0.49	-0.5	1	1	0	600	600	0
5/30/2024 14:12	52202	DEVO_T2	2	8	6	0.2	0.46	0.26	-1.22	-1.2	0	0	0	0	0	0
5/30/2024 14:13	52202	DEVO_T2	2	8	6	0.2	0.46	0.26	-1.22	-1.2	0	0	0	0	0	0
5/30/2024 14:13	52204	DEVO_T2	1	2	1	1.4	1.05	-0.35	0	0	0	0	0	0	0	0
5/30/2024 14:14	11303	EMMA_T1	4	4	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
5/30/2024 14:14	11301	EMMA_T1	2	1	-1	0.4	0.5	0.1	-0.54	-0.6	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/30/2024 14:14	11302	EMMA_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
5/30/2024 14:14	41801	GOCI_T2	1	2	1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/30/2024 14:16	63501	HEID_TBK1-2	3	3	0	0.77	0.4	-0.37	0.4	0.27	1	1	0	900	900	0
5/30/2024 14:16	42002	MNVL_T2	1	1	0	3.6	3.9	0.3	0.06	0.22	0	0	0	0	0	0
5/30/2024 14:16	42001	MNVL_T2	5	3	-2	1	0.3	-0.7	0	0	0	0	0	0	0	0
5/30/2024 14:16	65501	MOJO_T1	0	0	0	0	0	0	-1.03	-1.01	1	1	0	900	900	0
5/30/2024 14:23	55102	WERT_T2	0	0	0	0	0	0	-0.79	-0.86	2	2	0	1200	1200	0
5/30/2024 14:24	55101	WERT_T1	0	0	0	0	0	0	-1.29	-1.28	3	3	0	2400	2400	0
5/30/2024 14:25	51306	WIND_T2	2	3	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/30/2024 14:25	51304	WIND_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/30/2024 14:25	56803	BENV_T1	2	3	1	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
5/30/2024 14:25	51302	WIND_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/30/2024 14:25	56801	BENV_T1	21	17	-4	0.92	0.58	-0.34	-1.08	-1.05	4	4	0	2400	2400	0
5/30/2024 14:26	52202	DEVO_T2	6	5	-1	0.4	0.56	0.16	-1.2	-1.18	0	0	0	0	0	0
5/30/2024 14:26	29401	BELT_T1	7	4	-3	0.54	0.53	-0.01	0	0	1	1	0	900	900	0
5/30/2024 14:26	56801	BENV_T1	21	17	-4	0.92	0.58	-0.34	-0.27	-0.26	1	1	0	600	600	0
5/30/2024 14:26	56803	BENV_T1	2	3	1	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
5/30/2024 14:26	29402	BELT_T1	5	3	-2	2	3.03	1.03	0	0	0	0	0	0	0	0
5/30/2024 14:26	52204	DEVO_T2	1	2	1	1.9	0.75	-1.15	0	0	0	0	0	0	0	0
5/30/2024 14:27	51302	WIND_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/30/2024 14:27	52401	GRPA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/30/2024 14:27	51301	WIND_T1	5	4	-1	0.32	0.5	0.18	0	0	0	0	0	0	0	0
5/30/2024 14:27	52402	GRPA_T2	30	17	-13	0.34	0.38	0.04	0	0	0	0	0	0	0	0
5/30/2024 14:27	51305	WIND_T1	3	1	-2	0.6	1.3	0.7	0.27	0.26	0	0	0	0	0	0
5/30/2024 14:27	56802	BENV_T2	51	86	35	0.26	0.22	-0.04	-1.19	-1.28	0	0	0	0	0	0
5/30/2024 14:27	56801	BENV_T1	21	17	-4	0.92	0.58	-0.34	-0.27	-0.26	1	1	0	600	600	0
5/30/2024 14:27	52403	GRPA_T2	2	2	0	0.15	0.3	0.15	0.21	0.23	0	0	0	0	0	0
5/30/2024 14:27	51304	WIND_T2	1	0	-1	0.1	0	-0.1	0.12	0.15	0	0	0	0	0	0
5/30/2024 14:27	51306	WIND_T2	2	3	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/30/2024 14:27	51303	WIND_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/30/2024 14:27	56803	BENV_T1	2	3	1	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
5/30/2024 14:29	16102	BING_T2	6	5	-1	0.53	0.26	-0.27	0.06	-0.02	1	1	0	1200	1200	0
5/30/2024 14:29	29402	BELT_T1	5	3	-2	2	3.03	1.03	0	0	0	0	0	0	0	0
5/30/2024 14:29	29401	BELT_T1	7	4	-3	0.54	0.53	-0.01	0	0	1	1	0	900	900	0
5/30/2024 14:29	56802	BENV_T2	51	86	35	0.26	0.22	-0.04	-2.38	-2.56	0	0	0	0	0	0
5/30/2024 14:29	56801	BENV_T1	21	17	-4	0.92	0.58	-0.34	-0.54	-0.52	2	2	0	1200	1200	0
5/30/2024 14:29	56803	BENV_T1	2	3	1	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
5/30/2024 14:29	16101	BING_T2	2	1	-1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
5/30/2024 14:29	52204	DEVO_T2	1	2	1	1.9	0.75	-1.15	0	0	0	0	0	0	0	0
5/30/2024 14:29	16103	BING_T2	1	1	0	1.2	0.1	-1.1	0	0	0	0	0	0	0	0
5/30/2024 14:29	52202	DEVO_T2	6	5	-1	0.4	0.56	0.16	-1.2	-1.18	0	0	0	0	0	0
5/30/2024 14:30	41501	FAIR_T2	0	0	0	0	0	0	-0.89	-0.9	1	1	0	600	600	0
5/30/2024 14:31	56802	BENV_T2	15	107	92	0.58	0.25	-0.33	-1.19	-1.28	0	0	0	0	0	0
5/30/2024 14:32	52202	DEVO_T2	5	5	0	0.56	0.76	0.2	-1.2	-1.18	0	0	0	0	0	0
5/30/2024 14:32	44502	HAMI_T2	1	0	-1	2.5	2.5	0	-0.78	-0.74	0	0	0	0	0	0
5/30/2024 14:32	52204	DEVO_T2	2	1	-1	0.55	1.3	0.75	0	0	0	0	0	0	0	0
5/30/2024 14:34	13503	MCMI_T2	12	20	8	0.68	0.54	-0.14	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 14:39	42201	SHEN_T2	1	4	3	0.2	0.75	0.55	0.24	0.2	1	1	0	600	600	0
5/30/2024 14:40	58402	MORO_T1	0	0	0	0	0	0	0	-0.93	2	3	1	1500	2400	900
5/30/2024 14:40	58401	MORO_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
5/30/2024 14:41	46002	BERW_T2	4	5	1	0.28	0.32	0.04	0	0	0	0	0	0	0	0
5/30/2024 14:41	42201	SHEN_T2	1	4	3	0.2	0.75	0.55	0.24	0.2	1	1	0	600	600	0
5/30/2024 14:41	46003	BERW_T2	0	7	7	0	0.17	0.17	0	0	0	0	0	0	0	0
5/30/2024 14:41	46004	BERW_T2	2	4	2	0.2	0.3	0.1	0.31	0.27	0	0	0	0	0	0
5/30/2024 14:42	41502	FAIR_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
5/30/2024 14:43	51604	DUKE_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
5/30/2024 14:44	48302	ORMI_T2	2	2	0	0.65	0.5	-0.15	0.16	0.21	0	0	0	0	0	0
5/30/2024 14:50	13503	MCMI_T2	19	19	0	0.54	0.52	-0.02	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 14:52	55102	WERT_T2	0	0	0	0	0	0	-0.86	-0.98	2	2	0	1200	1200	0
5/30/2024 14:54	52204	DEVO_T2	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
5/30/2024 14:54	52202	DEVO_T2	3	5	2	0.57	0.76	0.19	-1.21	-1.24	0	0	0	0	0	0
5/30/2024 14:56	45901	AUBU_T1	0	0	0	0	0	0	2.38	2.33	0	0	0	0	0	0
5/30/2024 14:56	45902	AUBU_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/30/2024 14:57	53901	HALI_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
5/30/2024 14:57	53501	EVIL_T2	3	4	1	0.63	0.73	0.1	-1.24	-1.18	3	3	0	2100	2100	0
5/30/2024 14:57	53902	HALI_T2	2	5	3	3.25	1.66	-1.59	0	0	0	0	0	0	0	0
5/30/2024 14:57	53903	HALI_T2	11	18	7	0.81	0.67	-0.14	-0.04	-0.05	0	0	0	0	0	0
5/30/2024 14:58	46004	BERW_T2	1	4	3	0.1	0.3	0.2	0.27	0.31	0	0	0	0	0	0
5/30/2024 14:58	46002	BERW_T2	4	4	0	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
5/30/2024 14:58	46003	BERW_T2	7	0	-7	0.17	0	-0.17	0	0	0	0	0	0	0	0
5/30/2024 14:59	63804	HEMP_T1	1	1	0	6.6	6.3	-0.3	-0.46	-0.38	0	0	0	0	0	0
5/30/2024 15:00	53902	HALI_T2	4	4	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
5/30/2024 15:00	53903	HALI_T2	8	18	10	0.99	0.66	-0.33	-0.04	-0.05	0	0	0	0	0	0
5/30/2024 15:00	53901	HALI_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
5/30/2024 15:02	53902	HALI_T2	4	4	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
5/30/2024 15:02	53903	HALI_T2	8	18	10	0.99	0.66	-0.33	-0.07	-0.1	0	0	0	0	0	0
5/30/2024 15:02	53901	HALI_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
5/30/2024 15:03	58401	MORO_T1	4	0	-4	0.33	0	-0.33	-0.52	-0.55	1	1	0	600	600	0
5/30/2024 15:04	67501	WEHI_T1	2	4	2	0.4	0.63	0.23	-0.9	-0.91	1	1	0	600	600	0
5/30/2024 15:04	52502	PROG_T2	2	2	0	0.4	0.6	0.2	-0.51	-0.5	1	1	0	900	900	0
5/30/2024 15:05	58401	MORO_T1	4	0	-4	0.33	0	-0.33	-0.52	-0.55	1	1	0	600	600	0
5/30/2024 15:05	67204	TEHI_T2	0	1	1	0	0.5	0.5	0.01	-0.01	0	0	0	0	0	0
5/30/2024 15:06	67204	TEHI_T2	0	1	1	0	0.5	0.5	0.01	-0.01	0	0	0	0	0	0
5/30/2024 15:06	58401	MORO_T1	4	0	-4	0.33	0	-0.33	-0.52	-0.55	1	1	0	600	600	0
5/30/2024 15:06	52502	PROG_T2	2	2	0	0.4	0.6	0.2	-0.51	-0.5	1	1	0	900	900	0
5/30/2024 15:07	58402	MORO_T1	0	0	0	0	0	0	-0.93	-0.94	3	3	0	2400	2400	0
5/30/2024 15:07	58401	MORO_T1	4	0	-4	0.33	0	-0.33	0	0	0	0	0	0	0	0
5/30/2024 15:07	64101	REFR_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/30/2024 15:08	52502	PROG_T2	2	2	0	0.4	0.6	0.2	-0.5	-0.54	1	1	0	900	900	0
5/30/2024 15:09	20403	ASHF_T2	9	6	-3	0.59	0.48	-0.11	1.2	1.26	0	0	0	0	0	0
5/30/2024 15:09	20402	ASHF_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/30/2024 15:09	20401	ASHF_T2	6	7	1	0.4	0.46	0.06	0	0	0	0	0	0	0	0
5/30/2024 15:11	61803	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 15:11	61801	EELI_T2	0	0	0	0	0	0	-0.89	-0.92	2	2	0	1200	1200	0
5/30/2024 15:12	21203	ECAR_T1	46	137	91	0.32	0.57	0.25	0.85	0.74	0	0	0	0	0	0
5/30/2024 15:12	60101	COCA_T1	2	2	0	0.3	0.45	0.15	0.48	0.57	0	0	0	0	0	0
5/30/2024 15:13	40702	FFLD_T1	0	125	125	0	0.38	0.38	-0.67	-1	1	1	0	1200	1200	0
5/30/2024 15:13	40703	FFLD_T1	0	4	4	0	0.55	0.55	0	0	0	0	0	0	0	0
5/30/2024 15:13	40701	FFLD_T1	7	53	46	0.1	0.57	0.47	0	0	0	0	0	0	0	0
5/30/2024 15:13	20603	GRWO_T2	0	16	16	0	0.19	0.19	0.42	0.42	0	0	0	0	0	0
5/30/2024 15:13	60101	COCA_T1	2	2	0	0.3	0.45	0.15	0.48	0.57	0	0	0	0	0	0
5/30/2024 15:13	20601	GRWO_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 15:15	20603	GRWO_T2	5	16	11	0.2	0.19	-0.01	0.42	0.42	0	0	0	0	0	0
5/30/2024 15:15	20601	GRWO_T2	0	2	2	0	0.35	0.35	0.05	-0.07	0	0	0	0	0	0
5/30/2024 15:16	51603	DUKE_T1	0	0	0	0	0	0	-0.28	-0.23	0	0	0	0	0	0
5/30/2024 15:17	13503	MCMI_T2	13	10	-3	0.6	0.5	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 15:18	28803	LAKE_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
5/30/2024 15:18	28801	LAKE_T1	2	2	0	0.65	0.35	-0.3	0	0	0	0	0	0	0	0
5/30/2024 15:21	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 15:21	42002	MNVL_T2	1	1	0	3.3	3.1	-0.2	0	0	0	0	0	0	0	0
5/30/2024 15:21	67204	TEHI_T2	1	1	0	0.5	0.2	-0.3	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 15:21	40303	TAMA_T3	0	0	0	0	0	0	0.74	0.78	0	0	0	0	0	0
5/30/2024 15:21	65205	PRIN_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/30/2024 15:21	42001	MNVL_T2	3	3	0	0.63	0.47	-0.16	0.16	0.14	0	0	0	0	0	0
5/30/2024 15:21	40302	TAMA_T3	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/30/2024 15:22	67204	TEHI_T2	1	1	0	0.5	0.2	-0.3	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 15:23	67402	WAKE_T2	0	0	0	0	0	0	0.61	0.05	1	1	0	600	600	0
5/30/2024 15:23	67401	WAKE_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
5/30/2024 15:25	67803	WLAN_T1	3	3	0	0.3	0.2	-0.1	-0.67	-0.65	0	0	0	0	0	0
5/30/2024 15:25	67804	WLAN_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 15:28	51603	DUKE_T1	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
5/30/2024 15:30	28703	HAML_T2	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
5/30/2024 15:30	28704	HAML_T2	1	1	0	0.8	0.5	-0.3	0.03	-0.01	0	0	0	0	0	0
5/30/2024 15:30	28701	HAML_T2	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/30/2024 15:30	63401	HONY_T1	0	0	0	0	0	0	0.15	0.04	1	1	0	600	600	0
5/30/2024 15:30	65502	MOJO_T2	0	0	0	0	0	0	-0.59	-0.58	1	1	0	900	900	0
5/30/2024 15:30	65503	MOJO_T2	2	3	1	0.15	0.7	0.55	0	0	0	0	0	0	0	0
5/30/2024 15:32	64902	MILL_T2	0	0	0	0	0	0	-0.46	-0.44	1	1	0	900	900	0
5/30/2024 15:32	40101	HUNT_T2	0	0	0	0	0	0	-0.31	-0.28	0	0	0	0	0	0
5/30/2024 15:33	24202	PROV_T4	0	0	0	0	0	0	-0.44	-0.45	1	1	0	1200	1200	0
5/30/2024 15:33	13502	MCMI_T1	2	1	-1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
5/30/2024 15:33	13501	MCMI_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
5/30/2024 15:33	64902	MILL_T2	0	0	0	0	0	0	-0.46	-0.44	1	1	0	900	900	0
5/30/2024 15:34	42002	MNVL_T2	1	1	0	3.3	3.1	-0.2	0	0	0	0	0	0	0	0
5/30/2024 15:34	42001	MNVL_T2	3	2	-1	0.47	0.3	-0.17	0.14	0.14	0	0	0	0	0	0
5/30/2024 15:35	44703	MUNC_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/30/2024 15:35	44701	MUNC_T2	2	2	0	0.85	0.2	-0.65	-1.3	-1.25	0	0	0	0	0	0
5/30/2024 15:35	44702	MUNC_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 15:38	22401	MORG_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/30/2024 15:38	21705	SUBU_T1	3	3	0	1.93	1.83	-0.1	0	0	0	0	0	0	0	0
5/30/2024 15:38	21702	SUBU_T1	0	0	0	0	0	0	-0.05	-0.14	1	1	0	1200	1200	0
5/30/2024 15:38	21704	SUBU_T1	0	0	0	0	0	0	-2.11	-2.07	2	2	0	2400	2400	0
5/30/2024 15:38	22405	MORG_T2	1	1	0	0.1	0.1	0	0	-0.01	0	0	0	0	0	0
5/30/2024 15:39	21703	SUBU_T1	0	0	0	0	0	0	0.84	0.83	0	0	0	0	0	0
5/30/2024 15:39	21705	SUBU_T1	3	3	0	1.93	1.83	-0.1	0	0	0	0	0	0	0	0
5/30/2024 15:40	29401	BELT_T1	4	3	-1	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
5/30/2024 15:40	29402	BELT_T1	2	1	-1	4.1	7.9	3.8	0	0	0	0	0	0	0	0
5/30/2024 15:41	62105	ELAN_T1	1	1	0	0.9	1.1	0.2	0.58	0.61	0	0	0	0	0	0
5/30/2024 15:41	62106	ELAN_T1	1	0	-1	7.9	0	-7.9	0	0	0	0	0	0	0	0
5/30/2024 15:42	29401	BELT_T1	4	3	-1	0.45	0.37	-0.08	0	0	2	2	0	1800	1800	0
5/30/2024 15:42	29402	BELT_T1	2	1	-1	4.1	7.9	3.8	0	0	0	0	0	0	0	0
5/30/2024 15:44	46005	BERW_T1	1	4	3	0.1	1.03	0.93	0	0	0	0	0	0	0	0
5/30/2024 15:44	44502	HAMI_T2	1	1	0	2.7	3.1	0.4	0	0	0	0	0	0	0	0
5/30/2024 15:44	62105	ELAN_T1	1	1	0	0.9	1.1	0.2	0.58	0.61	0	0	0	0	0	0
5/30/2024 15:44	44505	HAMI_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
5/30/2024 15:44	29402	BELT_T1	2	1	-1	4.1	7.9	3.8	0	0	0	0	0	0	0	0
5/30/2024 15:44	29401	BELT_T1	4	3	-1	0.45	0.37	-0.08	0	0	1	1	0	900	900	0
5/30/2024 15:44	62106	ELAN_T1	1	0	-1	7.9	0	-7.9	0	0	0	0	0	0	0	0
5/30/2024 15:44	46001	BERW_T1	0	0	0	0	0	0	1.12	1	0	0	0	0	0	0
5/30/2024 15:45	63401	HONY_T1	0	0	0	0	0	0	0.04	-0.06	1	1	0	600	600	0
5/30/2024 15:45	29402	BELT_T1	1	2	1	7.9	4.05	-3.85	0	0	0	0	0	0	0	0
5/30/2024 15:45	29401	BELT_T1	3	3	0	0.37	0.33	-0.04	0	0	1	1	0	900	900	0
5/30/2024 15:46	44505	HAMI_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/30/2024 15:46	44502	HAMI_T2	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
5/30/2024 15:48	52501	PROG_T1	0	0	0	0	0	0	0.62	0.62	1	1	0	300	300	0
5/30/2024 15:50	52501	PROG_T1	0	0	0	0	0	0	0.62	0.62	1	1	0	300	300	0
5/30/2024 15:51	67703	WERN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
5/30/2024 15:51	67702	WERN_T2	1	2	1	0.4	0.35	-0.05	0.07	-0.01	0	0	0	0	0	0
5/30/2024 15:51	67701	WERN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/30/2024 15:51	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 15:53	67803	WLAN_T1	3	3	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
5/30/2024 15:53	67801	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 15:53	67804	WLAN_T1	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/30/2024 15:53	67805	WLAN_T1	0	0	0	0	0	0	-0.99	-1.02	0	0	0	0	0	0
5/30/2024 15:53	52501	PROG_T1	0	0	0	0	0	0	0.62	0.65	1	1	0	300	300	0
5/30/2024 15:55	67804	WLAN_T1	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/30/2024 15:55	67803	WLAN_T1	3	3	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
5/30/2024 15:55	67805	WLAN_T1	0	0	0	0	0	0	-0.99	-1.02	0	0	0	0	0	0
5/30/2024 15:55	67801	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 16:00	44502	HAMI_T2	1	1	0	3	3.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 16:00	44505	HAMI_T2	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
5/30/2024 16:00	46102	MACI_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
5/30/2024 16:07	45602	WOOL_T1	9	9	0	0.31	0.34	0.03	0.72	0.74	0	0	0	0	0	0
5/30/2024 16:07	67401	WAKE_T2	2	3	1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
5/30/2024 16:07	67402	WAKE_T2	0	0	0	0	0	0	-0.39	0.86	2	0	-2	1200	0	-1200
5/30/2024 16:08	44203	POIN_T2	0	0	0	0	0	0	-0.53	-0.42	2	2	0	2100	2100	0
5/30/2024 16:09	45602	WOOL_T1	9	9	0	0.31	0.34	0.03	0.74	0.74	0	0	0	0	0	0
5/30/2024 16:09	67401	WAKE_T2	2	3	1	0.15	0.4	0.25	-0.87	-0.91	0	0	0	0	0	0
5/30/2024 16:12	45602	WOOL_T1	9	9	0	0.31	0.34	0.03	0.74	0.74	0	0	0	0	0	0
5/30/2024 16:15	63501	HEID_TBK1-2	26	5	-21	0.32	0.66	0.34	-0.07	-0.12	1	1	0	900	900	0
5/30/2024 16:16	52404	GRPA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/30/2024 16:16	52402	GRPA_T2	18	4	-14	0.52	0.78	0.26	0	0	0	0	0	0	0	0
5/30/2024 16:16	52401	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/30/2024 16:16	52403	GRPA_T2	7	0	-7	0.16	0	-0.16	0.28	0.27	0	0	0	0	0	0
5/30/2024 16:17	26402	INOR_T1	0	0	0	0	0	0	-0.79	-0.83	1	1	0	600	600	0
5/30/2024 16:17	22901	HARW_T1	0	0	0	0	0	0	-0.41	-0.36	1	1	0	1200	1200	0
5/30/2024 16:17	26401	INOR_T1	1	1	0	8.3	9	0.7	0	0	0	0	0	0	0	0
5/30/2024 16:22	59201	THOM_T1	1	8	7	0.1	0.16	0.06	0	0	0	0	0	0	0	0
5/30/2024 16:22	59202	THOM_T1	13	53	40	0.18	0.22	0.04	0	0	0	0	0	0	0	0
5/30/2024 16:25	10602	BLGL_T2	1	3	2	0.2	0.77	0.57	0.44	0.45	0	0	0	0	0	0
5/30/2024 16:25	40201	BEGA_T2	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
5/30/2024 16:30	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
5/30/2024 16:34	44201	POIN_T1	15	7	-8	0.1	0.1	0	-2.12	-2.06	2	2	0	2100	2100	0
5/30/2024 16:36	44201	POIN_T1	15	7	-8	0.1	0.1	0	-4.24	-4.11	4	4	0	4200	4200	0
5/30/2024 16:38	43301	WATS_T2	2	0	-2	0.25	0	-0.25	0	0	1	1	0	900	900	0
5/30/2024 16:38	43302	WATS_T2	4	4	0	0.15	0.23	0.08	0	0	0	0	0	0	0	0
5/30/2024 16:40	56802	BENV_T2	43	137	94	0.2	0.24	0.04	-2.44	-2.36	0	0	0	0	0	0
5/30/2024 16:40	43301	WATS_T2	2	0	-2	0.25	0	-0.25	0	0	1	1	0	900	900	0
5/30/2024 16:40	43302	WATS_T2	4	4	0	0.15	0.23	0.08	0	0	0	0	0	0	0	0
5/30/2024 16:41	40801	EXCH_T2	3	2	-1	0.27	0.25	-0.02	-0.66	-0.64	2	2	0	2400	2400	0
5/30/2024 16:41	43301	WATS_T2	2	0	-2	0.25	0	-0.25	0	0	2	2	0	1800	1800	0
5/30/2024 16:41	40802	EXCH_T2	2	6	4	0.4	0.18	-0.22	0	0	0	0	0	0	0	0
5/30/2024 16:41	43302	WATS_T2	4	4	0	0.15	0.23	0.08	0	0	0	0	0	0	0	0
5/30/2024 16:42	40801	EXCH_T2	3	2	-1	0.27	0.25	-0.02	-0.33	-0.32	1	1	0	1200	1200	0
5/30/2024 16:42	43302	WATS_T2	4	4	0	0.15	0.23	0.08	0	0	0	0	0	0	0	0
5/30/2024 16:42	40802	EXCH_T2	2	6	4	0.4	0.18	-0.22	0	0	0	0	0	0	0	0
5/30/2024 16:42	43301	WATS_T2	2	0	-2	0.25	0	-0.25	0	0	1	1	0	900	900	0
5/30/2024 16:42	54505	ENOL_T2	0	1	1	0	0.5	0.5	-2.32	-2.38	2	2	0	1200	1200	0
5/30/2024 16:43	56802	BENV_T2	43	137	94	0.2	0.24	0.04	-1.22	-1.18	0	0	0	0	0	0
5/30/2024 16:43	40802	EXCH_T2	2	6	4	0.4	0.18	-0.22	-0.4	-0.46	0	0	0	0	0	0
5/30/2024 16:43	40801	EXCH_T2	3	2	-1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
5/30/2024 16:44	40801	EXCH_T2	3	2	-1	0.27	0.25	-0.02	-0.33	-0.32	1	1	0	1200	1200	0
5/30/2024 16:44	40802	EXCH_T2	2	6	4	0.4	0.18	-0.22	-0.2	-0.23	0	0	0	0	0	0
5/30/2024 16:44	61303	EARL_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
5/30/2024 16:45	40802	EXCH_T2	1	102	101	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
5/30/2024 16:45	40801	EXCH_T2	2	3	1	0.2	0.4	0.2	-0.66	-0.64	2	2	0	2400	2400	0
5/30/2024 16:46	23203	HIRU_T2	4	13	9	0.15	0.17	0.02	0.16	0.16	0	0	0	0	0	0
5/30/2024 16:46	40801	EXCH_T2	2	3	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/30/2024 16:46	23202	HIRU_T2	11	31	20	0.15	0.16	0.01	0	0	0	0	0	0	0	0
5/30/2024 16:46	23201	HIRU_T2	7	62	55	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
5/30/2024 16:46	40802	EXCH_T2	1	102	101	0.6	0.15	-0.45	-0.2	-0.23	0	0	0	0	0	0
5/30/2024 16:48	47002	HUGH_T2	0	0	0	0	0	0	-0.64	-0.68	0	0	0	0	0	0
5/30/2024 16:48	44703	MUNC_T2	2	2	0	1.1	1.25	0.15	0	0	0	0	0	0	0	0
5/30/2024 16:48	44701	MUNC_T2	3	40	37	0.2	0.19	-0.01	-1.39	-1.45	0	0	0	0	0	0
5/30/2024 16:48	44702	MUNC_T2	49	90	41	0.17	0.35	0.18	0	0	0	0	0	0	0	0
5/30/2024 16:49	51003	NHAR_T1	0	0	0	0	0	0	-1.4	-1.38	1	1	0	1200	1200	0
5/30/2024 16:49	51004	NHAR_T1	12	13	1	0.77	0.98	0.21	0	0	0	0	0	0	0	0
5/30/2024 16:49	51002	NHAR_T1	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
5/30/2024 16:50	44701	MUNC_T2	3	40	37	0.2	0.19	-0.01	-1.39	-1.45	0	0	0	0	0	0
5/30/2024 16:50	44703	MUNC_T2	2	2	0	1.1	1.25	0.15	0	0	0	0	0	0	0	0
5/30/2024 16:50	44702	MUNC_T2	49	90	41	0.17	0.35	0.18	0	0	0	0	0	0	0	0
5/30/2024 16:51	42002	MNVL_T2	1	1	0	1.4	2	0.6	-0.66	0.32	0	0	0	0	0	0
5/30/2024 16:51	42001	MNVL_T2	5	1	-4	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/30/2024 16:52	52402	GRPA_T2	3	3	0	0.93	0.93	0	0	0	0	0	0	0	0	0
5/30/2024 16:52	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/30/2024 16:52	59201	THOM_T1	8	17	9	0.16	0.48	0.32	0	0	0	0	0	0	0	0
5/30/2024 16:52	64101	REFR_T1	0	0	0	0	0	0	0.21	0.11	0	0	0	0	0	0
5/30/2024 16:52	59202	THOM_T1	50	278	228	0.2	0.36	0.16	0	0	0	0	0	0	0	0
5/30/2024 16:52	44201	POIN_T1	4	72	68	0.1	0.17	0.07	-2.06	-2.07	2	2	0	2100	2100	0
5/30/2024 16:52	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	-0.37	-0.37	0	0	0	0	0	0
5/30/2024 16:53	59202	THOM_T1	50	278	228	0.2	0.36	0.16	0	0	0	0	0	0	0	0
5/30/2024 16:53	64101	REFR_T1	0	0	0	0	0	0	0.15	0.27	0	0	0	0	0	0
5/30/2024 16:53	59201	THOM_T1	8	17	9	0.16	0.48	0.32	0	0	0	0	0	0	0	0
5/30/2024 16:54	64101	REFR_T1	0	0	0	0	0	0	0.07	0.14	0	0	0	0	0	0
5/30/2024 16:55	43302	WATS_T2	4	4	0	0.23	0.43	0.2	0	0	4	4	0	3600	3600	0
5/30/2024 16:55	64101	REFR_T1	0	0	0	0	0	0	0.04	0.07	0	0	0	0	0	0
5/30/2024 16:56	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/30/2024 16:56	54505	ENOL_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
5/30/2024 16:56	54504	ENOL_T2	0	0	0	0	0	0	-1.05	-1.06	1	1	0	600	600	0
5/30/2024 16:59	21204	ECAR_T2	1	2	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 16:59	24702	FLND_T2	2	4	2	0.6	0.38	-0.22	-0.26	-0.06	1	1	0	1200	1200	0
5/30/2024 16:59	21206	ECAR_T2	1	1	0	8.2	8.4	0.2	-0.2	-0.08	0	0	0	0	0	0
5/30/2024 17:02	59202	THOM_T1	121	301	180	0.22	0.36	0.14	0	0	0	0	0	0	0	0
5/30/2024 17:02	59201	THOM_T1	14	17	3	0.3	0.49	0.19	0	0	0	0	0	0	0	0
5/30/2024 17:03	54205	PENN_T1	0	75	75	0	0.16	0.16	0	0	0	0	0	0	0	0
5/30/2024 17:03	54201	PENN_T1	68	191	123	0.35	0.38	0.03	0	0	0	0	0	0	0	0
5/30/2024 17:03	54203	PENN_T1	18	64	46	1.18	0.53	-0.65	0.36	0.33	0	0	0	0	0	0
5/30/2024 17:06	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 17:08	55102	WERT_T2	0	0	0	0	0	0	-0.59	-0.55	1	1	0	600	600	0
5/30/2024 17:08	52501	PROG_T1	0	0	0	0	0	0	0.61	0.69	1	1	0	300	300	0
5/30/2024 17:10	40201	BEGA_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
5/30/2024 17:14	64201	KINZ_T1	5	7	2	0.5	0.39	-0.11	0	0	0	0	0	0	0	0
5/30/2024 17:14	64204	KINZ_T1	18	27	9	0.26	0.29	0.03	0	0	0	0	0	0	0	0
5/30/2024 17:14	64203	KINZ_T1	0	1	1	0	0.1	0.1	0.57	0.53	0	0	0	0	0	0
5/30/2024 17:14	64202	KINZ_T1	8	10	2	0.29	0.21	-0.08	0	0	0	0	0	0	0	0
5/30/2024 17:17	57104	SPHI_T2	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/30/2024 17:17	57103	SPHI_T2	0	0	0	0	0	0	-0.04	0.01	1	1	0	600	600	0
5/30/2024 17:17	57101	SPHI_T2	6	6	0	1.05	0.98	-0.07	0	0	0	0	0	0	0	0
5/30/2024 17:17	57106	SPHI_T2	3	3	0	1.57	1.3	-0.27	0	0	0	0	0	0	0	0
5/30/2024 17:18	40101	HUNT_T2	1	1	0	0.7	0	-0.7	-0.51	-0.48	0	0	0	0	0	0
5/30/2024 17:18	25402	LAHA_T2	0	0	0	0	0	0	-0.61	-0.56	0	0	0	0	0	0
5/30/2024 17:19	65802	RTWN_T2	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
5/30/2024 17:20	64904	MILL_T1	0	0	0	0	0	0	-0.19	-0.16	0	0	0	0	0	0
5/30/2024 17:20	47402	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/30/2024 17:20	47401	PENS_T1	0	0	0	0	0	0	1.06	1.09	0	0	0	0	0	0
5/30/2024 17:21	47401	PENS_T1	0	0	0	0	0	0	2.13	2.19	0	0	0	0	0	0
5/30/2024 17:21	47402	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/30/2024 17:24	43802	SWIL_T1	1	1	0	0.5	0.3	-0.2	0.04	0.01	1	1	0	600	600	0
5/30/2024 17:24	42501	ALTA_T2	1	1	0	0.3	0.6	0.3	0.26	0.29	1	1	0	600	600	0
5/30/2024 17:24	42504	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/30/2024 17:24	43801	SWIL_T1	23	23	0	0.51	0.45	-0.06	0	0	0	0	0	0	0	0
5/30/2024 17:25	29401	BELT_T1	52	37	-15	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
5/30/2024 17:25	29402	BELT_T1	1	1	0	8	8	0	0	0	0	0	0	0	0	0
5/30/2024 17:26	29402	BELT_T1	1	1	0	8	8	0	0	0	0	0	0	0	0	0
5/30/2024 17:26	42503	ALTA_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
5/30/2024 17:26	42504	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/30/2024 17:26	42501	ALTA_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/30/2024 17:26	29401	BELT_T1	52	37	-15	0.21	0.17	-0.04	0	0	1	1	0	900	900	0
5/30/2024 17:26	58003	WCAR_T1	8	5	-3	0.74	1.08	0.34	0	0	0	0	0	0	0	0
5/30/2024 17:26	58003	WCAR_T1	32	35	3	0.26	0.23	-0.03	0.85	0.86	0	0	0	0	0	0
5/30/2024 17:29	29402	BELT_T1	1	1	0	8	8	0	0	0	0	0	0	0	0	0
5/30/2024 17:29	29401	BELT_T1	52	37	-15	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
5/30/2024 17:29	58006	WCAR_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
5/30/2024 17:30	29402	BELT_T1	1	1	0	7.9	8	0.1	0	0	0	0	0	0	0	0
5/30/2024 17:30	29401	BELT_T1	32	35	3	0.18	0.16	-0.02	0	0	1	1	0	900	900	0
5/30/2024 17:33	22405	MORG_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
5/30/2024 17:35	22405	MORG_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
5/30/2024 17:36	11104	EGYP_T1	5	5	0	0.28	0.13	-0.15	0	0	0	0	0	0	0	0
5/30/2024 17:36	11103	EGYP_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
5/30/2024 17:39	11104	EGYP_T1	5	5	0	0.28	0.13	-0.15	0	0	0	0	0	0	0	0
5/30/2024 17:39	11103	EGYP_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
5/30/2024 17:41	61306	EARL_T1	0	0	0	0	0	0	-1.23	-1.25	0	0	0	0	0	0
5/30/2024 17:43	29402	BELT_T1	1	1	0	7.9	8	0.1	0	0	0	0	0	0	0	0
5/30/2024 17:43	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 17:43	21206	ECAR_T2	1	5	4	8.3	8.2	-0.1	0.33	0.17	0	0	0	0	0	0
5/30/2024 17:43	29401	BELT_T1	32	35	3	0.18	0.16	-0.02	0	0	1	1	0	900	900	0
5/30/2024 17:44	40902	JESH_T1	0	0	0	0	0	0	-0.36	-0.52	1	0	-1	600	0	-600
5/30/2024 17:44	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.49	-0.43	0	0	0	0	0	0
5/30/2024 17:45	40101	HUNT_T2	0	0	0	0	0	0	-0.49	-0.43	0	0	0	0	0	0
5/30/2024 17:45	29401	BELT_T1	31	33	2	0.16	0.18	0.02	0	0	1	1	0	900	900	0
5/30/2024 17:45	29402	BELT_T1	1	1	0	8	8	0	0	0	0	0	0	0	0	0
5/30/2024 17:48	65205	PRIN_T1	1	1	0	1.5	1.8	0.3	0	0	0	0	0	0	0	0
5/30/2024 17:49	40902	JESH_T1	0	9	9	0	0.14	0.14	-0.36	-0.52	1	0	-1	600	0	-600
5/30/2024 17:49	40901	JESH_T1	0	10	10	0	0.15	0.15	0	0	0	0	0	0	0	0
5/30/2024 17:51	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 17:51	65207	PRIN_T4	0	7	7	0	0.16	0.16	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/30/2024 17:57	44302	BEAV_T2	0	2	2	0	0.15	0.15	0.41	0.41	0	0	0	0	0	0
5/30/2024 17:58	21206	ECAR_T2	1	5	4	8	8.2	0.2	0.08	0.12	0	0	0	0	0	0
5/30/2024 17:58	21204	ECAR_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/30/2024 17:59	21204	ECAR_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
5/30/2024 17:59	21206	ECAR_T2	1	5	4	8	8.2	0.2	0.08	0.12	0	0	0	0	0	0
5/30/2024 18:01	44504	HAMI_T2	0	0	0	0	0	0	-1.15	-1.18	0	0	0	0	0	0
5/30/2024 18:01	44502	HAMI_T2	1	1	0	2.9	3.4	0.5	0	0	0	0	0	0	0	0
5/30/2024 18:03	46504	LOHA_T1	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/30/2024 18:03	64902	MILL_T2	0	0	0	0	0	0	-0.38	-0.44	1	1	0	900	900	0
5/30/2024 18:03	46506	LOHA_T1	0	0	0	0	0	0	-0.33	-0.37	0	0	0	0	0	0
5/30/2024 18:05	65701	RVIL_T1	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
5/30/2024 18:11	42504	ALTA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 18:11	42501	ALTA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/30/2024 18:11	42503	ALTA_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
5/30/2024 18:11	58006	WCAR_T2	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
5/30/2024 18:12	60803	BUCK_T1	0	0	0	0	0	0	-0.38	-0.41	1	1	0	600	600	0
5/30/2024 18:13	58003	WCAR_T1	7	46	39	0.41	0.29	-0.12	0.77	0.79	0	0	0	0	0	0
5/30/2024 18:13	58001	WCAR_T1	4	7	3	1.23	1	-0.23	0	0	0	0	0	0	0	0
5/30/2024 18:14	16102	BING_T2	0	0	0	0	0	0	-0.18	-0.18	1	1	0	1200	1200	0
5/30/2024 18:14	21204	ECAR_T2	1	1	0	0	0.4	0.4	0	0	0	0	0	0	0	0
5/30/2024 18:14	21206	ECAR_T2	5	1	-4	1.76	8.2	6.44	0.12	0.16	0	0	0	0	0	0
5/30/2024 18:15	21204	ECAR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/30/2024 18:15	21206	ECAR_T2	1	1	0	8.2	8.2	0	0.12	0.16	0	0	0	0	0	0
5/30/2024 18:16	12006	HATF_T1	0	0	0	0	0	0	0.7	0.54	1	1	0	1200	1200	0
5/30/2024 18:20	65901	SAKR_T2	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
5/30/2024 18:20	23001	SAJO_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
5/30/2024 18:20	65904	SAKR_T2	0	0	0	0	0	0	-1.74	-1.75	3	3	0	1500	1500	0
5/30/2024 18:25	49802	UNIV_T2	46	3	-43	0.14	0.2	0.06	-0.42	-0.26	0	0	0	0	0	0
5/30/2024 18:25	21206	ECAR_T2	1	1	0	8.2	8.2	0	0.16	0.18	0	0	0	0	0	0
5/30/2024 18:25	21204	ECAR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/30/2024 18:28	46401	FLEM_T2	20	10	-10	0.32	0.34	0.02	0	0	0	0	0	0	0	0
5/30/2024 18:28	46402	FLEM_T2	20	20	0	0.32	0.22	-0.1	0.2	0.77	1	0	-1	600	0	-600
5/30/2024 18:30	21206	ECAR_T2	1	1	0	8	8.3	0.3	0.16	0.18	0	0	0	0	0	0
5/30/2024 18:30	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 18:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 18:31	40802	EXCH_T2	5	6	1	0.14	0.15	0.01	0	0	0	0	0	0	0	0
5/30/2024 18:31	40801	EXCH_T2	2	2	0	0.3	0.3	0	-0.36	-0.35	1	1	0	1200	1200	0
5/30/2024 18:32	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 18:32	64501	LAVI_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
5/30/2024 18:39	43504	WWIL_T1	9	12	3	0.32	0.42	0.1	0.76	0.72	0	0	0	0	0	0
5/30/2024 18:39	43704	WILL_T1	1	1	0	2.1	1.8	-0.3	0	0	0	0	0	0	0	0
5/30/2024 18:39	43506	WWIL_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
5/30/2024 18:39	43703	WILL_T1	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/30/2024 18:39	43505	WWIL_T1	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
5/30/2024 18:39	43701	WILL_T1	1	0	-1	0.1	0	-0.1	0.18	0.18	0	0	0	0	0	0
5/30/2024 18:39	43705	WILL_T1	2	2	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
5/30/2024 18:40	67002	STHI_T2	0	0	0	0	0	0	0.8	0.81	0	0	0	0	0	0
5/30/2024 18:42	62106	ELAN_T1	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
5/30/2024 18:43	29402	BELT_T1	1	1	0	7.2	7.6	0.4	0	0	0	0	0	0	0	0
5/30/2024 18:43	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/30/2024 18:46	12601	MACA_T1	0	0	0	0	0	0	0.97	0.94	0	0	0	0	0	0
5/30/2024 18:47	58303	NOTT_T2	0	0	0	0	0	0	0.49	0.61	1	1	0	900	900	0
5/30/2024 18:47	13501	MCMI_T1	0	1	1	0	0	0	0.17	0.18	0	0	0	0	0	0
5/30/2024 18:51	51702	OBER_T1	2	2	0	3.1	3.4	0.3	0	0	0	0	0	0	0	0
5/30/2024 18:51	51704	OBER_T1	0	0	0	0	0	0	-1.47	-1.43	1	1	0	1200	1200	0
5/30/2024 18:52	58006	WCAR_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
5/30/2024 18:54	61103	BERK_T5	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
5/30/2024 18:54	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 18:55	67702	WERN_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
5/30/2024 18:55	67801	WLAN_T1	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
5/30/2024 18:55	67805	WLAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 18:55	15103	LIPHA_T2	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
5/30/2024 18:57	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 18:57	10102	ALLE_T2	1	1	0	6.8	6.5	-0.3	0	0	0	0	0	0	0	0
5/30/2024 18:58	45901	AUBU_T1	0	0	0	0	0	0	2.28	2.35	0	0	0	0	0	0
5/30/2024 18:59	56802	BENV_T2	278	371	93	0.38	0.46	0.08	-1.23	-1.25	0	0	0	0	0	0
5/30/2024 19:04	47401	PENS_T1	0	0	0	0	0	0	2.24	2.24	0	0	0	0	0	0
5/30/2024 19:04	47403	PENS_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/30/2024 19:05	61102	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 19:05	61103	BERK_T5	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
5/30/2024 19:06	11104	EGYP_T1	5	0	-5	0.42	0	-0.42	0	0	0	0	0	0	0	0
5/30/2024 19:06	54202	PENN_T2	0	0	0	0	0	0	0.88	0.78	0	0	0	0	0	0
5/30/2024 19:06	11102	EGYP_T1	0	0	0	0	0	0	-0.13	-0.2	0	0	0	0	0	0
5/30/2024 19:07	16605	PONO_T1	0	0	0	0	0	0	-0.18	-0.19	1	1	0	1200	1200	0
5/30/2024 19:07	11102	EGYP_T1	0	0	0	0	0	0	-0.13	-0.2	0	0	0	0	0	0
5/30/2024 19:07	11104	EGYP_T1	5	0	-5	0.42	0	-0.42	0	0	0	0	0	0	0	0
5/30/2024 19:12	62102	ELAN_T1	0	0	0	0	0	0	1.98	1.89	0	0	0	0	0	0
5/30/2024 19:15	61501	EPET_T2	1	1	0	4.8	5.3	0.5	0	0	0	0	0	0	0	0
5/30/2024 19:15	61506	EPET_T2	0	0	0	0	0	0	-1.92	-0.98	2	1	-1	1800	900	-900
5/30/2024 19:15	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 19:15	62102	ELAN_T1	0	0	0	0	0	0	0.99	0.94	0	0	0	0	0	0
5/30/2024 19:19	50201	HARR_T3	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
5/30/2024 19:19	12006	HATF_T1	0	0	0	0	0	0	0.52	0.36	1	1	0	1200	1200	0
5/30/2024 19:19	50103	HARR_T3	2	2	0	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
5/30/2024 19:19	50107	HARR_T3	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
5/30/2024 19:19	50105	HARR_T3	6	6	0	5.68	5.72	0.04	0	0	0	0	0	0	0	0
5/30/2024 19:20	65001	NEFF_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/30/2024 19:20	65003	NEFF_T2	64	69	5	0.18	0.17	-0.01	-1.96	-1.92	2	2	0	1800	1800	0
5/30/2024 19:23	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/30/2024 19:23	14802	TREI_T2	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
5/30/2024 19:25	61103	BERK_T5	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
5/30/2024 19:25	61102	BERK_T5	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/30/2024 19:26	61102	BERK_T5	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/30/2024 19:26	61103	BERK_T5	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
5/30/2024 19:27	61102	BERK_T5	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/30/2024 19:27	61103	BERK_T5	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
5/30/2024 19:28	48302	ORWI_T2	2	2	0	1.05	1.15	0.1	0.1	0.1	0	0	0	0	0	0
5/30/2024 19:29	61703	ELIZ_T1	0	0	0	0	0	0	-2.32	-2.34	2	2	0	2100	2100	0
5/30/2024 19:29	61701	ELIZ_T1	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
5/30/2024 19:30	56801	BENV_T1	7	30	23	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
5/30/2024 19:30	56802	BENV_T2	300	376	76	0.44	0.26	-0.18	-1.26	-1.26	0	0	0	0	0	0
5/30/2024 19:30	56803	BENV_T1	0	1	1	0	0.1	0.1	-0.03	-0.05	0	0	0	0	0	0
5/30/2024 19:30	64501	LAVI_T1	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
5/30/2024 19:35	24801	VALM_T1	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
5/30/2024 19:44	67502	WEWI_T2	154	459	305	0.16	0.28	0.12	0	0	0	0	0	0	0	0
5/30/2024 19:44	67503	WEWI_T2	0	0	0	0	0	0	0.02	-0.08	0	0	0	0	0	0
5/30/2024 19:57	20403	ASHF_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
5/30/2024 19:57	20401	ASHF_T2	4	9	5	0.58	0.57	-0.01	0	0	0	0	0	0	0	0
5/30/2024 19:58	62105	ELAN_T1	0	15	15	0	0.11	0.11	0	0	0	0	0	0	0	0
5/30/2024 19:58	62106	ELAN_T1	0	0	0	0	0	0	0.06	-0.02	0	0	0	0	0	0
5/30/2024 19:58	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 19:58	62101	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/30/2024 20:00	54503	ENOL_T2	0	0	0	0	0	0	-1.74	-1.69	1	1	0	600	600	0
5/30/2024 20:00	54505	ENOL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
5/30/2024 20:00	54502	ENOL_T2	1	9	8	0.5	0.19	-0.31	0	0	0	0	0	0	0	0
5/30/2024 20:00	62605	ENGL_T1	0	0	0	0	0	0	-0.59	-0.62	0	0	0	0	0	0
5/30/2024 20:13	22905	HARW_T1	0	0	0	0	0	0	-0.74	-0.71	0	0	0	0	0	0
5/30/2024 20:22	46301	ROHR_T1	0	49	49	0	0.15	0.15	0.18	0.18	0	0	0	0	0	0
5/30/2024 20:22	46302	ROHR_T1	4	5	1	2	1.72	-0.28	0	0	0	0	0	0	0	0
5/30/2024 20:23	14603	SWHI_T1	0	0	0	0	0	0	-0.88	-0.97	1	1	0	600	600	0
5/30/2024 20:27	15703	TANN_T2	2	1	-1	2.5	5	2.5	0	0	0	0	0	0	0	0
5/30/2024 20:27	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.31	0	0	0	0	0	0
5/30/2024 20:28	46802	HEPB_T1	10	2	-8	0.24	0.65	0.41	-0.2	-0.22	0	0	0	0	0	0
5/30/2024 20:32	46801	HEPB_T2	2	3	1	0.7	0.57	-0.13	0.67	0.66	0	0	0	0	0	0
5/30/2024 20:32	46803	HEPB_T2	0	1	1	0	0.1	0.1	0.5	0.5	0	0	0	0	0	0
5/30/2024 20:36	46801	HEPB_T2	2	3	1	0.7	0.57	-0.13	0.67	0.66	0	0	0	0	0	0
5/30/2024 20:36	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 20:37	26401	INOR_T1	1	1	0	9.1	9.4	0.3	0.44	0.44	0	0	0	0	0	0
5/30/2024 20:48	20401	ASHF_T2	6	8	2	0.52	0.46	-0.06	0	0	0	0	0	0	0	0
5/30/2024 20:48	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
5/30/2024 20:53	55002	NEWP_T1	5	6	1	1.04	0.97	-0.07	-0.24	-0.23	0	0	0	0	0	0
5/30/2024 20:54	15001	BLMO_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/30/2024 20:55	55002	NEWP_T1	5	6	1	1.04	0.97	-0.07	-0.24	-0.23	0	0	0	0	0	0
5/30/2024 20:55	67703	WERN_T2	0	0	0	0	0	0	-0.17	-0.15	1	1	0	900	900	0
5/30/2024 20:56	15001	BLMO_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/30/2024 20:57	15001	BLMO_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/30/2024 21:00	15001	BLMO_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/30/2024 21:01	64304	LINC_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 21:01	64302	LINC_T2	0	0	0	0	0	0	1.11	1.01	0	0	0	0	0	0
5/30/2024 21:03	63804	HEMP_T1	1	1	0	5.3	5.2	-0.1	-0.38	-0.38	0	0	0	0	0	0
5/30/2024 21:05	64702	LITI_T2	0	0	0	0	0	0	-0.48	-0.64	0	0	0	0	0	0
5/30/2024 21:07	64702	LITI_T2	0	0	0	0	0	0	-0.96	-1.28	0	0	0	0	0	0
5/30/2024 21:14	16101	BING_T2	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
5/30/2024 21:14	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 21:15	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 21:16	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 21:23	66703	STRA_T1	0	4	4	0	0.25	0.25	-0.35	-0.38	0	0	0	0	0	0
5/30/2024 21:24	50701	SMEC_T1	0	0	0	0	0	0	-0.81	-0.85	0	0	0	0	0	0
5/30/2024 21:25	50701	SMEC_T1	0	0	0	0	0	0	-0.81	-0.85	0	0	0	0	0	0
5/30/2024 21:28	61101	BERK_T5	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
5/30/2024 21:28	66703	STRA_T1	0	4	4	0	0.25	0.25	-0.35	-0.38	0	0	0	0	0	0
5/30/2024 21:28	50701	SMEC_T1	0	0	0	0	0	0	-0.81	-0.85	0	0	0	0	0	0
5/30/2024 21:29	61101	BERK_T5	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
5/30/2024 21:34	41902	REED_T1	0	0	0	0	0	0	1.1	1.03	0	0	0	0	0	0
5/30/2024 21:34	41901	REED_T1	9	1	-8	0.68	0.2	-0.48	0	0	0	0	0	0	0	0
5/30/2024 21:35	14602	SWHI_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
5/30/2024 21:35	14601	SWHI_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
5/30/2024 21:35	47802	MOCA_T2	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
5/30/2024 21:35	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 21:35	41902	REED_T1	0	0	0	0	0	0	1.1	1.03	0	0	0	0	0	0
5/30/2024 21:35	41901	REED_T1	9	1	-8	0.68	0.2	-0.48	0	0	0	0	0	0	0	0
5/30/2024 21:37	14602	SWHI_T1	1	0	-1	0.6	0	-0.6	0.25	0.25	0	0	0	0	0	0
5/30/2024 21:39	66903	SHIL_T2	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/30/2024 21:40	50701	SMEC_T1	0	0	0	0	0	0	-0.85	0.32	0	0	0	0	0	0
5/30/2024 21:41	66901	SHIL_T2	0	0	0	0	0	0	-1.24	-1.25	0	0	0	0	0	0
5/30/2024 21:42	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 21:43	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 21:52	45902	AUBU_T1	8	96	88	0.15	0.19	0.04	0	0	0	0	0	0	0	0
5/30/2024 21:52	45901	AUBU_T1	0	0	0	0	0	0	1.58	1.56	0	0	0	0	0	0
5/30/2024 21:52	46302	ROHR_T1	4	5	1	1.83	2.06	0.23	0.32	0.3	0	0	0	0	0	0
5/30/2024 21:52	46301	ROHR_T1	0	31	31	0	0.12	0.12	0	0	0	0	0	0	0	0
5/30/2024 21:53	46302	ROHR_T1	4	5	1	1.83	2.06	0.23	0.15	0.15	0	0	0	0	0	0
5/30/2024 21:53	46301	ROHR_T1	0	31	31	0	0.12	0.12	0	0	0	0	0	0	0	0
5/30/2024 21:55	67502	WEWI_T2	0	17	17	0	0.14	0.14	0	0	0	0	0	0	0	0
5/30/2024 21:55	67503	WEWI_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
5/30/2024 21:57	14802	TREI_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
5/30/2024 21:57	14801	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:00	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:03	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:16	46506	LOHA_T1	5	2	-3	0.36	0.7	0.34	0	0	0	0	0	0	0	0
5/30/2024 22:16	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.61	0	0	0	0	0	0
5/30/2024 22:16	46504	LOHA_T1	2	2	0	0.75	0.45	-0.3	0	0	0	0	0	0	0	0
5/30/2024 22:16	10602	BLGL_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
5/30/2024 22:18	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
5/30/2024 22:18	63602	LETO_T1	0	0	0	0	0	0	-0.4	-0.53	0	0	0	0	0	0
5/30/2024 22:18	53102	WTWN_T1	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
5/30/2024 22:18	63802	HEMP_T1	0	0	0	0	0	0	0.09	0.14	0	0	0	0	0	0
5/30/2024 22:18	56802	BENV_T2	1	1	0	0.9	0.7	-0.2	-0.73	-0.69	0	0	0	0	0	0
5/30/2024 22:20	28701	HAML_T2	4	2	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
5/30/2024 22:20	21204	ECAR_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/30/2024 22:20	21206	ECAR_T2	1	1	0	7.8	6.9	-0.9	1.11	1.16	0	0	0	0	0	0
5/30/2024 22:20	28704	HAML_T2	135	77	-58	0.22	0.14	-0.08	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 22:20	21202	ECAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:20	28703	HAML_T2	3	3	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
5/30/2024 22:21	50105	HARR_T3	6	6	0	5.87	5.78	-0.09	0	0	0	0	0	0	0	0
5/30/2024 22:21	50103	HARR_T3	2	2	0	0.85	0.9	0.05	0	0	0	0	0	0	0	0
5/30/2024 22:21	50107	HARR_T3	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
5/30/2024 22:21	50201	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/30/2024 22:21	63602	LETO_T1	0	0	0	0	0	0	-0.8	-1.06	0	0	0	0	0	0
5/30/2024 22:22	65503	MOJO_T2	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
5/30/2024 22:22	62605	ENGL_T1	0	0	0	0	0	0	-0.7	-0.77	0	0	0	0	0	0
5/30/2024 22:22	65701	RVIL_T1	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
5/30/2024 22:23	63602	LETO_T1	0	0	0	0	0	0	-0.53	-0.57	0	0	0	0	0	0
5/30/2024 22:23	13302	ORVI_T2	0	0	0	0	0	0	1.06	1.04	0	0	0	0	0	0
5/30/2024 22:23	24801	VALM_T1	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
5/30/2024 22:23	44201	POIN_T1	167	91	-76	0.24	0.21	-0.03	-2.24	-2.27	2	2	0	2100	2100	0
5/30/2024 22:24	17002	RIRO_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
5/30/2024 22:24	51304	WIND_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
5/30/2024 22:24	23202	HIRU_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
5/30/2024 22:24	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
5/30/2024 22:25	64904	MILL_T1	207	151	-56	0.25	0.16	-0.09	-0.44	-0.49	0	0	0	0	0	0
5/30/2024 22:25	67002	STHI_T2	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
5/30/2024 22:25	45902	AUBU_T1	0	0	0	0	0	0	-0.4	-0.33	0	0	0	0	0	0
5/30/2024 22:25	15702	TANN_T2	98	68	-30	0.24	0.21	-0.03	-0.47	-0.48	0	0	0	0	0	0
5/30/2024 22:25	15703	TANN_T2	6	6	0	0.9	0.9	0	0	0	0	0	0	0	0	0
5/30/2024 22:25	64901	MILL_T1	69	50	-19	0.31	0.26	-0.05	0	0	0	0	0	0	0	0
5/30/2024 22:25	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.1	0	0	0	0	0	0
5/30/2024 22:25	29402	BELT_T1	1	1	0	7.8	8.1	0.3	0	0	0	0	0	0	0	0
5/30/2024 22:25	52202	DEVO_T2	0	0	0	0	0	0	-0.79	-0.83	0	0	0	0	0	0
5/30/2024 22:25	63501	HEID_TBK1-2	1	1	0	0.2	0.4	0.2	0.35	0.35	0	0	0	0	0	0
5/30/2024 22:25	67605	WARW_T1	16	14	-2	0.46	0.49	0.03	0	0	0	0	0	0	0	0
5/30/2024 22:25	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
5/30/2024 22:26	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:26	15603	NSTR_T2	19	10	-9	0.19	0.17	-0.02	-0.59	-0.59	0	0	0	0	0	0
5/30/2024 22:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/30/2024 22:26	56802	BENV_T2	1	1	0	0.9	0.7	-0.2	-0.69	-0.75	0	0	0	0	0	0
5/30/2024 22:26	40303	TAMA_T3	0	0	0	0	0	0	2.28	2.22	0	0	0	0	0	0
5/30/2024 22:26	15601	NSTR_T2	107	21	-86	0.2	0.28	0.08	0	0	0	0	0	0	0	0
5/30/2024 22:26	15602	NSTR_T2	44	9	-35	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
5/30/2024 22:26	13503	MCMI_T2	1	0	-1	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 22:26	67703	WERN_T2	0	0	0	0	0	0	-0.3	-0.33	1	1	0	900	900	0
5/30/2024 22:26	29402	BELT_T1	1	1	0	7.8	8.1	0.3	0	0	0	0	0	0	0	0
5/30/2024 22:26	11103	EGYP_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
5/30/2024 22:26	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:27	54201	PENN_T1	4	3	-1	0.75	0.73	-0.02	0.27	0.24	0	0	0	0	0	0
5/30/2024 22:27	13905	SEID_T1	0	0	0	0	0	0	0.34	0.29	0	0	0	0	0	0
5/30/2024 22:27	62105	ELAN_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
5/30/2024 22:27	17802	GILB_T1	0	1	1	0	0.1	0.1	0.08	0.04	0	0	0	0	0	0
5/30/2024 22:27	21705	SUBU_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
5/30/2024 22:27	67805	WLAN_T1	373	221	-152	0.26	0.16	-0.1	-1.48	-1.52	0	0	0	0	0	0
5/30/2024 22:27	54203	PENN_T1	18	18	0	0.53	0.38	-0.15	0	0	0	0	0	0	0	0
5/30/2024 22:27	21702	SUBU_T1	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
5/30/2024 22:27	60803	BUCK_T1	9	6	-3	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
5/30/2024 22:27	13503	MCMI_T2	1	0	-1	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 22:27	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
5/30/2024 22:27	13501	MCMI_T1	0	3	3	0	0	0	0.05	0.04	0	0	0	0	0	0
5/30/2024 22:27	60801	BUCK_T1	20	8	-12	0.15	0.13	-0.02	-0.21	-0.23	0	0	0	0	0	0
5/30/2024 22:27	13502	MCMI_T1	13	6	-7	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
5/30/2024 22:27	20601	GRWO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/30/2024 22:27	67502	WEWI_T2	17	0	-17	0.14	0	-0.14	-0.52	-0.53	0	0	0	0	0	0
5/30/2024 22:27	20603	GRWO_T2	1	0	-1	0.1	0	-0.1	0.3	0.28	0	0	0	0	0	0
5/30/2024 22:28	47002	HUGH_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/30/2024 22:28	13501	MCMI_T1	0	3	3	0	0	0	0.05	0.04	0	0	0	0	0	0
5/30/2024 22:28	25404	LAHA_T2	84	23	-61	0.14	0.11	-0.03	0	0	0	0	0	0	0	0
5/30/2024 22:28	61306	EARL_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
5/30/2024 22:28	21202	ECAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:28	65003	NEFF_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
5/30/2024 22:28	61801	EELI_T2	0	1	1	0	0.2	0.2	-0.3	-0.3	0	0	0	0	0	0
5/30/2024 22:28	63306	GREE_T1	0	0	0	0	0	0	-1.18	-1.19	0	0	0	0	0	0
5/30/2024 22:28	43802	SWIL_T1	0	0	0	0	0	0	0.56	0.51	0	0	0	0	0	0
5/30/2024 22:28	28803	LAKE_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
5/30/2024 22:28	21206	ECAR_T2	1	1	0	7.8	6.9	-0.9	1.16	1.07	0	0	0	0	0	0
5/30/2024 22:28	11103	EGYP_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
5/30/2024 22:28	25402	LAHA_T2	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
5/30/2024 22:28	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
5/30/2024 22:28	21204	ECAR_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/30/2024 22:28	66505	SMAN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/30/2024 22:28	13502	MCMI_T1	13	6	-7	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
5/30/2024 22:28	29402	BELT_T1	1	1	0	7.8	8.1	0.3	0	0	0	0	0	0	0	0
5/30/2024 22:28	10801	OHHI_T1	0	0	0	0	0	0	-0.91	-0.94	1	1	0	900	900	0
5/30/2024 22:28	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:28	65001	NEFF_T2	24	0	-24	0.12	0	-0.12	-0.89	-0.91	1	1	0	1200	1200	0
5/30/2024 22:28	45902	AUBU_T1	0	0	0	0	0	0	-0.4	-0.33	0	0	0	0	0	0
5/30/2024 22:28	20401	ASHF_T2	2	2	0	0.55	0.6	0.05	-0.41	-0.39	0	0	0	0	0	0
5/30/2024 22:28	66504	SMAN_T2	0	0	0	0	0	0	-1.13	-1.13	0	0	0	0	0	0
5/30/2024 22:28	47001	HUGH_T2	0	0	0	0	0	0	-0.3	-0.35	0	0	0	0	0	0
5/30/2024 22:28	43801	SWIL_T1	55	26	-29	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:28	63305	GREE_T1	2	0	-2	0.1	0	-0.1	-1.18	-1.16	0	0	0	0	0	0
5/30/2024 22:28	60101	COCA_T1	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
5/30/2024 22:28	65503	MOJO_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
5/30/2024 22:29	53901	HALI_T2	1	1	0	0.3	0.1	-0.2	-1.06	-1.07	0	0	0	0	0	0
5/30/2024 22:29	67501	WEWI_T1	13	0	-13	0.11	0	-0.11	0	0	0	0	0	0	0	0
5/30/2024 22:29	67502	WEWI_T2	17	0	-17	0.14	0	-0.14	0	0	0	0	0	0	0	0
5/30/2024 22:29	48302	ORWI_T2	2	2	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
5/30/2024 22:29	56802	BENV_T2	1	1	0	0.9	0.7	-0.2	-0.69	-0.75	0	0	0	0	0	0
5/30/2024 22:29	60801	BUCK_T1	20	8	-12	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
5/30/2024 22:29	67803	WLAN_T1	0	0	0	0	0	0	-0.85	-0.87	0	0	0	0	0	0
5/30/2024 22:29	67002	STHI_T2	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
5/30/2024 22:29	67505	WEWI_T1	0	0	0	0	0	0	-0.22	-0.28	1	1	0	900	900	0
5/30/2024 22:29	40802	EXCH_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
5/30/2024 22:29	67805	WLAN_T1	373	221	-152	0.26	0.16	-0.1	0	0	0	0	0	0	0	0
5/30/2024 22:29	63501	HEID_TBK1-2	1	1	0	0.2	0.4	0.2	0.35	0.35	0	0	0	0	0	0
5/30/2024 22:29	51002	NHAR_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:29	60502	NMAN_T2	0	0	0	0	0	0	-0.35	-0.47	0	0	0	0	0	0
5/30/2024 22:29	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:29	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
5/30/2024 22:29	54201	PENN_T1	4	3	-1	0.75	0.73	-0.02	0.27	0.24	0	0	0	0	0	0
5/30/2024 22:29	44301	BEAV_T2	0	0	0	0	0	0	0.36	0.37	1	1	0	600	600	0
5/30/2024 22:29	51004	NHAR_T1	10	11	1	0.87	0.91	0.04	-0.63	-0.58	0	0	0	0	0	0
5/30/2024 22:29	63404	HONY_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:29	53903	HALI_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:29	61103	BERK_T5	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
5/30/2024 22:29	63401	HONY_T1	0	0	0	0	0	0	-0.24	-0.19	1	1	0	600	600	0
5/30/2024 22:29	60803	BUCK_T1	9	6	-3	0.18	0.15	-0.03	-0.5	-0.53	1	1	0	600	600	0
5/30/2024 22:29	65502	MOJO_T2	0	0	0	0	0	0	-1.88	-1.87	1	1	0	900	900	0
5/30/2024 22:29	67503	WEWI_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
5/30/2024 22:29	60101	COCA_T1	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
5/30/2024 22:29	54203	PENN_T1	18	18	0	0.53	0.38	-0.15	0.66	0.67	0	0	0	0	0	0
5/30/2024 22:29	60501	NMAN_T2	3	3	0	4.97	4.8	-0.17	0	0	0	0	0	0	0	0
5/30/2024 22:30	46002	BERW_T2	0	0	0	0	0	0	-1.17	-1.2	1	1	0	900	900	0
5/30/2024 22:30	51305	WIND_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
5/30/2024 22:30	67503	WEWI_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
5/30/2024 22:30	67002	STHI_T2	0	0	0	0	0	0	1.68	1.62	0	0	0	0	0	0
5/30/2024 22:30	29402	BELT_T1	1	1	0	8	8.5	0.5	0	0	0	0	0	0	0	0
5/30/2024 22:30	12801	MICK_T1	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
5/30/2024 22:30	54505	ENOL_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
5/30/2024 22:30	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:30	17401	FOHI_T1	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
5/30/2024 22:30	66504	SMAN_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
5/30/2024 22:30	15603	NSTR_T2	10	24	14	0.17	0.21	0.04	0	0	0	0	0	0	0	0
5/30/2024 22:30	57003	WHHI_T2	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
5/30/2024 22:30	61506	EPET_T2	0	0	0	0	0	0	-1.08	-1.17	1	1	0	900	900	0
5/30/2024 22:30	61501	EPET_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
5/30/2024 22:30	67801	WLAN_T1	0	0	0	0	0	0	0.97	0.87	0	0	0	0	0	0
5/30/2024 22:30	57004	WHHI_T2	0	0	0	0	0	0	-0.62	-0.67	0	0	0	0	0	0
5/30/2024 22:30	54502	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/30/2024 22:30	15103	UPHA_T2	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
5/30/2024 22:30	67703	WERN_T2	0	0	0	0	0	0	-0.6	-0.66	2	2	0	1800	1800	0
5/30/2024 22:30	54501	ENOL_T2	0	3	3	0	0.17	0.17	-0.49	-0.49	1	1	0	600	600	0
5/30/2024 22:30	40302	TAMA_T3	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
5/30/2024 22:30	67805	WLAN_T1	221	199	-22	0.16	0.16	0	0	0	0	0	0	0	0	0
5/30/2024 22:30	20403	ASHF_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
5/30/2024 22:30	45901	AUBU_T1	0	0	0	0	0	0	3.1	2.95	0	0	0	0	0	0
5/30/2024 22:30	62102	ELAN_T1	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
5/30/2024 22:30	61103	BERK_T5	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
5/30/2024 22:30	57104	SPHI_T2	1	2	1	0.4	0.45	0.05	-0.1	-0.12	0	0	0	0	0	0
5/30/2024 22:30	57106	SPHI_T2	3	3	0	1.67	1.57	-0.1	0	0	0	0	0	0	0	0
5/30/2024 22:30	57006	WHHI_T2	5	16	11	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
5/30/2024 22:30	15602	NSTR_T2	9	107	98	0.1	0.12	0.02	-0.05	-0.12	0	0	0	0	0	0
5/30/2024 22:30	16504	STRO_T1	0	0	0	0	0	0	0.22	0.2	1	1	0	1200	1200	0
5/30/2024 22:30	66505	SMAN_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
5/30/2024 22:30	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:30	57101	SPHI_T2	6	6	0	1.07	1.43	0.36	0	0	0	0	0	0	0	0
5/30/2024 22:30	66901	SHIL_T2	0	0	0	0	0	0	-1.3	-1.34	0	0	0	0	0	0
5/30/2024 22:30	20401	ASHF_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
5/30/2024 22:30	15601	NSTR_T2	21	46	25	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
5/30/2024 22:30	67502	WEWI_T2	0	1	1	0	0.1	0.1	-1.04	-1.06	0	0	0	0	0	0
5/30/2024 22:30	67605	WARW_T1	14	14	0	0.49	0.48	-0.01	-1.2	-1.22	0	0	0	0	0	0
5/30/2024 22:30	12803	MICK_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/30/2024 22:31	67503	WEWI_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
5/30/2024 22:31	56803	BENV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:31	67505	WEWI_T1	0	0	0	0	0	0	-0.22	-0.28	1	1	0	900	900	0
5/30/2024 22:31	49802	UNIV_T2	0	0	0	0	0	0	-1.02	-0.9	0	0	0	0	0	0
5/30/2024 22:31	16102	BING_T2	0	0	0	0	0	0	0.83	0.81	0	0	0	0	0	0
5/30/2024 22:31	24105	EHAZ_T1	4	4	0	5.63	5.45	-0.18	0	0	0	0	0	0	0	0
5/30/2024 22:31	42001	MNVL_T2	5	0	-5	0.18	0	-0.18	0.01	-0.04	0	0	0	0	0	0
5/30/2024 22:31	48302	ORWI_T2	2	2	0	1	1.4	0.4	-0.11	-0.13	0	0	0	0	0	0
5/30/2024 22:31	67804	WLAN_T1	0	0	0	0	0	0	-1.07	-1.08	0	0	0	0	0	0
5/30/2024 22:31	64904	MILL_T1	151	14	-137	0.16	0.16	0	-0.44	-0.49	0	0	0	0	0	0
5/30/2024 22:31	24103	EHAZ_T1	0	0	0	0	0	0	-0.63	-0.61	0	0	0	0	0	0
5/30/2024 22:31	67501	WEWI_T1	0	28	28	0	0.16	0.16	0	0	0	0	0	0	0	0
5/30/2024 22:31	56801	BENV_T1	13	16	3	0.35	0.61	0.26	-0.68	-0.73	1	1	0	600	600	0
5/30/2024 22:31	61103	BERK_T5	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
5/30/2024 22:31	67204	TEHI_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
5/30/2024 22:31	43302	WATS_T2	4	4	0	0.23	0.45	0.22	0	0	0	0	0	0	0	0
5/30/2024 22:31	67803	WLAN_T1	0	0	0	0	0	0	-0.85	-0.87	0	0	0	0	0	0
5/30/2024 22:31	23203	HIRU_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
5/30/2024 22:31	67805	WLAN_T1	221	199	-22	0.16	0.16	0	0	0	0	0	0	0	0	0
5/30/2024 22:31	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:31	42002	MNVL_T2	2	1	-1	0.55	1.7	1.15	0	0	0	0	0	0	0	0
5/30/2024 22:31	13704	SOHN_T2	5	0	-5	0.16	0.26	0.1	-0.4	-0.41	0	0	0	0	0	0
5/30/2024 22:31	43301	WATS_T2	0	1	1	0	0.8	0.8	0	0	0	1	1	0	900	900
5/30/2024 22:31	61303	EARL_T1	0	0	0	0	0	0	0.17	0.12	0	0	0	0	0	0
5/30/2024 22:31	64901	MILL_T1	50	39	-11	0.26	0.15	-0.11	0	0	0	0	0	0	0	0
5/30/2024 22:31	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.19	0	0	0	0	0	0
5/30/2024 22:31	59301	MCAL_T1	2	4	2	1.05	0.65	-0.4	0	0	0	0	0	0	0	0
5/30/2024 22:31	24104	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:31	59302	MCAL_T1	1	1	0	0.5	0.7	0.2	-0.37	-0.35	1	1	0	600	600	0
5/30/2024 22:31	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
5/30/2024 22:32	62105	ELAN_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
5/30/2024 22:32	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:32	40601	PIGR_T1	4	26	22	0.1	0.12	0.02	0	0	0	0	0	0	0	0
5/30/2024 22:32	10102	ALLE_T2	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:32	40602	PIGR_T1	0	0	0	0	0	0	-1.16	-1.34	2	2	0	1200	1200	0
5/30/2024 22:32	66505	SMAN_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
5/30/2024 22:32	53901	HALI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:32	10206	ALLE_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:32	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:32	48302	ORWI_T2	2	2	0	1	1.4	0.4	-0.11	-0.13	0	0	0	0	0	0
5/30/2024 22:32	14403	SSLA_T1	0	0	0	0	0	0	0.58	0.51	0	0	0	0	0	0
5/30/2024 22:32	54504	ENOL_T2	0	0	0	0	0	0	-1.13	-1.17	1	1	0	600	600	0
5/30/2024 22:32	22405	MORG_T2	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
5/30/2024 22:32	51004	NHAR_T1	6	12	6	1.3	0.87	-0.43	0	0	0	0	0	0	0	0
5/30/2024 22:32	57101	SPHI_T2	6	6	0	1.07	1.43	0.36	0.3	0.28	0	0	0	0	0	0
5/30/2024 22:32	42002	MNVL_T2	2	1	-1	0.55	1.7	1.15	0.23	0.2	0	0	0	0	0	0
5/30/2024 22:32	53903	HALI_T2	2	2	0	1.05	1.1	0.05	-0.22	-0.22	0	0	0	0	0	0
5/30/2024 22:32	67401	WAKE_T2	76	53	-23	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
5/30/2024 22:32	58001	WCAR_T1	4	7	3	1.3	1.06	-0.24	0	0	0	0	0	0	0	0
5/30/2024 22:32	64902	MILL_T2	0	0	0	0	0	0	-0.64	-0.67	1	1	0	900	900	0
5/30/2024 22:32	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:32	29402	BELT_T1	1	1	0	8	8.5	0.5	0	0	0	0	0	0	0	0
5/30/2024 22:32	60102	COCA_T1	0	0	0	0	0	0	-0.1	-0.13	1	1	0	600	600	0
5/30/2024 22:32	60101	COCA_T1	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
5/30/2024 22:32	51003	NHAR_T1	0	0	0	0	0	0	-1.54	-1.61	1	1	0	1200	1200	0
5/30/2024 22:32	42902	MIDD_T2	53	85	32	0.47	0.48	0.01	-0.26	-0.27	0	0	0	0	0	0
5/30/2024 22:32	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:32	57103	SPHI_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
5/30/2024 22:32	56801	BENV_T1	13	16	3	0.35	0.61	0.26	-0.68	-0.73	1	1	0	600	600	0
5/30/2024 22:32	42903	MIDD_T2	9	10	1	0.66	0.6	-0.06	0	0	0	0	0	0	0	0
5/30/2024 22:32	58006	WCAR_T2	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
5/30/2024 22:32	23203	HIRU_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
5/30/2024 22:32	63305	GREE_T1	0	0	0	0	0	0	-1.18	-1.16	0	0	0	0	0	0
5/30/2024 22:32	67804	WLAN_T1	0	0	0	0	0	0	-1.07	-1.08	0	0	0	0	0	0
5/30/2024 22:32	56802	BENV_T2	1	3	2	0.5	0.4	-0.1	-0.69	-0.75	0	0	0	0	0	0
5/30/2024 22:32	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/30/2024 22:32	42901	MIDD_T2	177	224	47	0.25	0.33	0.08	0	0	0	0	0	0	0	0
5/30/2024 22:32	63501	HEID_TBK1-2	1	2	1	0.2	0.3	0.1	0.35	0.35	0	0	0	0	0	0
5/30/2024 22:32	57106	SPHI_T2	3	3	0	1.67	1.57	-0.1	0	0	0	0	0	0	0	0
5/30/2024 22:32	44201	POIN_T1	68	266	198	0.24	0.24	0	-2.24	-2.27	2	2	0	2100	2100	0
5/30/2024 22:32	66502	SMAN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/30/2024 22:32	42001	MNVL_T2	5	0	-5	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/30/2024 22:32	54501	ENOL_T2	0	3	3	0	0.17	0.17	-0.49	-0.49	1	1	0	600	600	0
5/30/2024 22:32	55002	NEWP_T1	5	5	0	0.38	0.5	0.12	-0.29	-0.29	0	0	0	0	0	0
5/30/2024 22:32	56803	BENV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:32	67803	WLAN_T1	0	0	0	0	0	0	-0.85	-0.87	0	0	0	0	0	0
5/30/2024 22:32	54502	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/30/2024 22:32	58003	WCAR_T1	1	52	51	1.8	0.23	-1.57	0.59	0.62	0	0	0	0	0	0
5/30/2024 22:32	57104	SPHI_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
5/30/2024 22:32	14404	SSLA_T1	1	1	0	5.8	6.1	0.3	-0.02	-0.04	0	0	0	0	0	0
5/30/2024 22:32	67204	TEHI_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
5/30/2024 22:32	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
5/30/2024 22:32	51002	NHAR_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:32	54505	ENOL_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
5/30/2024 22:32	67805	WLAN_T1	221	199	-22	0.16	0.16	0	0	0	0	0	0	0	0	0
5/30/2024 22:33	26603	BROO_T1	1	1	0	0.6	0.1	-0.5	0.48	0.45	0	0	0	0	0	0
5/30/2024 22:33	67703	WERN_T2	0	0	0	0	0	0	-0.3	-0.33	1	1	0	900	900	0
5/30/2024 22:33	24104	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:33	64902	MILL_T2	0	0	0	0	0	0	-0.64	-0.67	1	1	0	900	900	0
5/30/2024 22:33	67803	WLAN_T1	0	0	0	0	0	0	-1.7	-1.74	0	0	0	0	0	0
5/30/2024 22:33	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:33	67502	WEWI_T2	0	1	1	0	0.1	0.1	-0.52	-0.53	0	0	0	0	0	0
5/30/2024 22:33	67805	WLAN_T1	221	199	-22	0.16	0.16	0	0	0	0	0	0	0	0	0
5/30/2024 22:33	15702	TANN_T2	67	75	8	0.19	0.21	0.02	-0.47	-0.48	0	0	0	0	0	0
5/30/2024 22:33	45902	AUBU_T1	0	0	0	0	0	0	-0.4	-0.33	0	0	0	0	0	0
5/30/2024 22:33	59201	THOM_T1	15	17	2	0.23	0.31	0.08	0	0	0	0	0	0	0	0
5/30/2024 22:33	59202	THOM_T1	167	259	92	0.18	0.25	0.07	0	0	0	0	0	0	0	0
5/30/2024 22:33	47403	PENS_T1	0	12	12	0	0.15	0.15	0	0	0	0	0	0	0	0
5/30/2024 22:33	56802	BENV_T2	1	3	2	0.5	0.4	-0.1	-1.38	-1.5	0	0	0	0	0	0
5/30/2024 22:33	47401	PENS_T1	1	0	-1	0.1	0	-0.1	0.82	0.74	0	0	0	0	0	0
5/30/2024 22:33	24105	EHAZ_T1	4	4	0	5.63	5.45	-0.18	0	0	0	0	0	0	0	0
5/30/2024 22:33	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.14	-0.18	2	2	0	1800	1800	0
5/30/2024 22:33	16103	BING_T2	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
5/30/2024 22:33	56801	BENV_T1	13	16	3	0.35	0.61	0.26	-2.04	-2.19	3	3	0	1800	1800	0
5/30/2024 22:33	14601	SWHI_T1	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
5/30/2024 22:33	60104	COCA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:33	60103	COCA_T2	0	0	0	0	0	0	0.29	0.35	1	1	0	900	900	0
5/30/2024 22:33	40801	EXCH_T2	0	0	0	0	0	0	0.78	0.75	0	0	0	0	0	0
5/30/2024 22:33	67503	WEWI_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
5/30/2024 22:33	15703	TANN_T2	6	6	0	0.92	0.95	0.03	0	0	0	0	0	0	0	0
5/30/2024 22:33	63404	HONY_T1	0	34	34	0	0.19	0.19	0	0	0	0	0	0	0	0
5/30/2024 22:33	60803	BUCK_T1	6	9	3	0.15	0.13	-0.02	-0.5	-0.53	1	1	0	600	600	0
5/30/2024 22:33	60801	BUCK_T1	8	31	23	0.13	0.15	0.02	0	0	0	0	0	0	0	0
5/30/2024 22:33	63501	HEID_TBK1-2	1	2	1	0.2	0.3	0.1	0.35	0.35	0	0	0	0	0	0
5/30/2024 22:33	54203	PENN_T1	5	18	13	0.5	0.66	0.16	0.66	0.67	0	0	0	0	0	0
5/30/2024 22:33	63401	HONY_T1	0	0	0	0	0	0	-0.24	-0.19	1	1	0	600	600	0
5/30/2024 22:33	24102	EHAZ_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
5/30/2024 22:33	54201	PENN_T1	3	4	1	0.53	0.8	0.27	0	0	0	0	0	0	0	0
5/30/2024 22:33	56803	BENV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:34	56802	BENV_T2	1	3	2	0.5	0.4	-0.1	-1.38	-1.5	0	0	0	0	0	0
5/30/2024 22:34	64501	LAVI_T1	0	0	0	0	0	0	-0.26	-0.31	0	0	0	0	0	0
5/30/2024 22:34	44702	MUNC_T2	8	0	-8	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/30/2024 22:34	43108	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:34	52501	PROG_T1	0	0	0	0	0	0	0.35	0.32	1	1	0	300	300	0
5/30/2024 22:34	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:34	57106	SPHI_T2	3	3	0	1.67	1.57	-0.1	0	0	0	0	0	0	0	0
5/30/2024 22:34	27603	PIRI_T2	0	0	0	0	0	0	-1.04	-1.06	2	2	0	1800	1800	0
5/30/2024 22:34	45902	AUBU_T1	0	0	0	0	0	0	-0.4	-0.33	0	0	0	0	0	0
5/30/2024 22:34	43402	BENT_T1	0	64	64	0	0.23	0.23	-0.97	-0.97	1	1	0	900	900	0
5/30/2024 22:34	56803	BENV_T1	0	1	1	0	0.2	0.2	-0.08	-0.09	0	0	0	0	0	0
5/30/2024 22:34	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
5/30/2024 22:34	67605	WARW_T1	14	14	0	0.49	0.48	-0.01	-2.4	-2.44	0	0	0	0	0	0
5/30/2024 22:34	43102	SMIL_T2	8	8	0	0.83	0.81	-0.02	0	0	0	0	0	0	0	0
5/30/2024 22:34	14404	SSLA_T1	1	1	0	5.8	6.1	0.3	-0.02	-0.04	0	0	0	0	0	0
5/30/2024 22:34	54505	ENOL_T2	1	1	0	0.2	0.8	0.6	-1.28	-1.27	1	1	0	600	600	0
5/30/2024 22:34	56801	BENV_T1	13	16	3	0.35	0.61	0.26	0	0	0	0	0	0	0	0
5/30/2024 22:34	41202	KENM_T2	1	1	0	0.8	0.2	-0.6	0.55	0.5	0	0	0	0	0	0
5/30/2024 22:34	67401	WAKE_T2	76	53	-23	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
5/30/2024 22:34	64101	REFR_T1	0	0	0	0	0	0	-0.33	-0.58	0	0	0	0	0	0
5/30/2024 22:34	51302	WIND_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/30/2024 22:34	54502	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/30/2024 22:34	47401	PENS_T1	1	0	-1	0.1	0	-0.1	0.82	0.74	0	0	0	0	0	0
5/30/2024 22:34	43103	SMIL_T2	21	22	1	0.82	0.88	0.06	-0.96	-0.99	0	0	0	0	0	0
5/30/2024 22:34	62102	ELAN_T1	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
5/30/2024 22:34	59202	THOM_T1	167	259	92	0.18	0.25	0.07	0	0	0	0	0	0	0	0
5/30/2024 22:34	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
5/30/2024 22:34	44703	MUNC_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
5/30/2024 22:34	59201	THOM_T1	15	17	2	0.23	0.31	0.08	0	0	0	0	0	0	0	0
5/30/2024 22:34	44701	MUNC_T2	311	1	-310	0.3	0.1	-0.2	-1.66	-1.66	0	0	0	0	0	0
5/30/2024 22:34	57104	SPHI_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
5/30/2024 22:34	43105	SMIL_T2	8	9	1	0.13	0.19	0.06	0	0	0	0	0	0	0	0
5/30/2024 22:34	58001	WCAR_T1	4	7	3	1.3	1.06	-0.24	0	0	0	0	0	0	0	0
5/30/2024 22:34	61103	BERK_T5	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
5/30/2024 22:34	14801	TREI_T2	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
5/30/2024 22:34	67604	WARW_T1	0	0	0	0	0	0	0.52	0.47	0	0	0	0	0	0
5/30/2024 22:34	58003	WCAR_T1	1	52	51	1.8	0.23	-1.57	0.59	0.62	0	0	0	0	0	0
5/30/2024 22:34	47403	PENS_T1	0	12	12	0	0.15	0.15	0	0	0	0	0	0	0	0
5/30/2024 22:34	58006	WCAR_T2	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
5/30/2024 22:34	10805	CHHI_T2	1	1	0	7.7	7.5	-0.2	-0.93	-1.01	1	1	0	600	600	0
5/30/2024 22:34	57101	SPHI_T2	6	6	0	1.07	1.43	0.36	0	0	0	0	0	0	0	0
5/30/2024 22:34	46001	BERW_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
5/30/2024 22:34	29402	BELT_T1	1	1	0	8	8.5	0.5	0	0	0	0	0	0	0	0
5/30/2024 22:34	54501	ENOL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/30/2024 22:34	11102	EGYP_T1	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
5/30/2024 22:34	47001	HUGH_T2	0	0	0	0	0	0	-0.3	-0.35	0	0	0	0	0	0
5/30/2024 22:34	57103	SPHI_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
5/30/2024 22:35	43101	SMIL_T2	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
5/30/2024 22:35	53903	HALI_T2	2	2	0	1.05	1.1	0.05	0	0	0	0	0	0	0	0
5/30/2024 22:35	62102	ELAN_T1	0	0	0	0	0	0	1.3	1.24	0	0	0	0	0	0
5/30/2024 22:35	43108	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:35	65205	PRIN_T1	1	5	4	2.2	0.54	-1.66	0	0	0	0	0	0	0	0
5/30/2024 22:35	67605	WARW_T1	14	14	0	0.49	0.48	-0.01	-1.2	-1.22	0	0	0	0	0	0
5/30/2024 22:35	58001	WCAR_T1	4	7	3	1.3	1.06	-0.24	0	0	0	0	0	0	0	0
5/30/2024 22:35	46401	FLEM_T2	247	13	-234	0.37	0.18	-0.19	0	0	0	0	0	0	0	0
5/30/2024 22:35	44505	HAMI_T2	0	0	0	0	0	0	0.45	0.41	0	0	0	0	0	0
5/30/2024 22:35	67803	WLAN_T1	0	0	0	0	0	0	-0.85	-0.87	0	0	0	0	0	0
5/30/2024 22:35	62106	ELAN_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
5/30/2024 22:35	43102	SMIL_T2	8	8	0	0.83	0.81	-0.02	0	0	0	0	0	0	0	0
5/30/2024 22:35	59101	WALK_T2	44	58	14	0.27	0.65	0.38	-0.76	-0.71	0	0	0	0	0	0
5/30/2024 22:35	46402	FLEM_T2	93	20	-73	0.35	0.27	-0.08	0.56	0.53	0	0	0	0	0	0
5/30/2024 22:35	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/30/2024 22:35	60801	BUCK_T1	8	31	23	0.13	0.15	0.02	-0.21	-0.23	0	0	0	0	0	0
5/30/2024 22:35	46001	BERW_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
5/30/2024 22:35	25503	MADI_T1	193	174	-19	0.6	0.63	0.03	-1	-1.02	0	0	0	0	0	0
5/30/2024 22:35	52402	GRPA_T2	3	4	1	0.77	0.65	-0.12	-0.8	-0.82	0	0	0	0	0	0
5/30/2024 22:35	63401	HONY_T1	0	0	0	0	0	0	-0.24	-0.19	1	1	0	600	600	0
5/30/2024 22:35	63404	HONY_T1	0	34	34	0	0.19	0.19	0	0	0	0	0	0	0	0
5/30/2024 22:35	24702	FLND_T2	0	0	0	0	0	0	1.22	0.93	0	0	0	0	0	0
5/30/2024 22:35	43105	SMIL_T2	8	9	1	0.13	0.19	0.06	0	0	0	0	0	0	0	0
5/30/2024 22:35	43302	WATS_T2	4	4	0	0.23	0.45	0.22	0	0	1	1	0	1200	1200	0
5/30/2024 22:35	60101	COCA_T1	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
5/30/2024 22:35	67805	WLAN_T1	221	199	-22	0.16	0.16	0	0	0	0	0	0	0	0	0
5/30/2024 22:35	13302	ORVI_T2	0	0	0	0	0	0	1.06	1.04	0	0	0	0	0	0
5/30/2024 22:35	44601	SALE_T2	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
5/30/2024 22:35	60803	BUCK_T1	6	9	3	0.15	0.13	-0.02	-0.5	-0.53	1	1	0	600	600	0
5/30/2024 22:35	65202	PRIN_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:35	52403	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:35	25501	MADI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/30/2024 22:35	58003	WCAR_T1	1	52	51	1.8	0.23	-1.57	0.59	0.62	0	0	0	0	0	0
5/30/2024 22:35	44701	MUNC_T2	311	1	-310	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
5/30/2024 22:35	67401	WAKE_T2	76	53	-23	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
5/30/2024 22:35	44702	MUNC_T2	8	0	-8	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/30/2024 22:35	45902	AUBU_T1	0	0	0	0	0	0	-0.4	-0.33	0	0	0	0	0	0
5/30/2024 22:35	44703	MUNC_T2	2	2	0	0.85	0.8	-0.05	0.61	0.57	0	0	0	0	0	0
5/30/2024 22:35	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
5/30/2024 22:35	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:35	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
5/30/2024 22:35	61103	BERK_T5	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
5/30/2024 22:35	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:35	52404	GRPA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:35	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.39	0	0	0	0	0	0
5/30/2024 22:35	59102	WALK_T2	7	24	17	0.11	0.14	0.03	0	0	0	0	0	0	0	0
5/30/2024 22:35	65904	SAKR_T2	0	0	0	0	0	0	-1.36	-1.31	2	2	0	900	900	0
5/30/2024 22:35	55002	NEWP_T1	5	5	0	0.38	0.5	0.12	-0.29	-0.29	0	0	0	0	0	0
5/30/2024 22:35	53901	HALI_T2	1	1	0	0.1	0.3	0.2	-1.06	-1.07	0	0	0	0	0	0
5/30/2024 22:35	43301	WATS_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/30/2024 22:35	65901	SAKR_T2	1	1	0	8.8	8.7	-0.1	0	0	0	0	0	0	0	0
5/30/2024 22:35	43103	SMIL_T2	21	22	1	0.82	0.88	0.06	0	0	0	0	0	0	0	0
5/30/2024 22:36	60803	BUCK_T1	6	9	3	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
5/30/2024 22:36	67703	WERN_T2	0	0	0	0	0	0	-0.3	-0.33	1	1	0	900	900	0
5/30/2024 22:36	54202	PENN_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
5/30/2024 22:36	40801	EXCH_T2	0	0	0	0	0	0	0.78	0.75	0	0	0	0	0	0
5/30/2024 22:36	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/30/2024 22:36	66504	SMAN_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
5/30/2024 22:36	43506	WWIL_T1	1	1	0	1.8	1.2	-0.6	0	0	0	0	0	0	0	0
5/30/2024 22:36	52006	LING_T2	2	2	0	1	0.75	-0.25	0	0	0	0	0	0	0	0
5/30/2024 22:36	24603	VARD_T2	230	191	-39	0.34	0.35	0.01	0	0	0	0	0	0	0	0
5/30/2024 22:36	60101	COCA_T1	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
5/30/2024 22:36	67702	WERN_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
5/30/2024 22:36	64902	MILL_T2	0	0	0	0	0	0	-0.64	-0.67	1	1	0	900	900	0
5/30/2024 22:36	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.14	-0.18	2	2	0	1800	1800	0
5/30/2024 22:36	67002	STHI_T2	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
5/30/2024 22:36	66502	SMAN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
5/30/2024 22:36	45602	WOOL_T1	34	0	-34	0.25	0	-0.25	0.59	0.54	0	0	0	0	0	0
5/30/2024 22:36	42002	MNVL_T2	2	1	-1	0.55	1.7	1.15	0	0	0	0	0	0	0	0
5/30/2024 22:36	52004	LING_T2	1	1	0	0.6	0.6	0	0.16	0.16	0	0	0	0	0	0
5/30/2024 22:36	24602	VARD_T2	927	882	-45	1.16	1.19	0.03	-1.01	-1.03	0	0	0	0	0	0
5/30/2024 22:36	54203	PENN_T1	5	18	13	0.5	0.66	0.16	0.66	0.67	0	0	0	0	0	0
5/30/2024 22:36	58001	WCAR_T1	4	7	3	1.3	1.06	-0.24	0	0	0	0	0	0	0	0
5/30/2024 22:36	46506	LOHA_T1	2	1	-1	0.7	0.7	0	-0.45	-0.44	0	0	0	0	0	0
5/30/2024 22:36	11102	EGYP_T1	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
5/30/2024 22:36	17804	GILB_T2	0	20	20	0	0.17	0.17	-0.58	-0.58	0	0	0	0	0	0
5/30/2024 22:36	40903	JESH_T1	132	0	-132	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/30/2024 22:36	43504	WWIL_T1	16	3	-13	0.53	0.23	-0.3	0.49	0.46	0	0	0	0	0	0
5/30/2024 22:36	66505	SMAN_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
5/30/2024 22:36	40901	JESH_T1	151	3	-148	0.29	0.1	-0.19	0	0	0	0	0	0	0	0
5/30/2024 22:36	42001	MNVL_T2	5	0	-5	0.18	0	-0.18	0.01	-0.04	0	0	0	0	0	0
5/30/2024 22:36	56802	BENV_T2	1	3	2	0.5	0.4	-0.1	-0.69	-0.75	0	0	0	0	0	0
5/30/2024 22:36	40902	JESH_T1	517	0	-517	0.21	0	-0.21	-0.79	-0.84	0	0	0	0	0	0
5/30/2024 22:36	42503	ALTA_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
5/30/2024 22:36	45902	AUBU_T1	0	0	0	0	0	0	-0.4	-0.33	0	0	0	0	0	0
5/30/2024 22:36	46101	MACI_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
5/30/2024 22:36	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/30/2024 22:36	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:36	40802	EXCH_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
5/30/2024 22:36	52002	LING_T2	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
5/30/2024 22:36	63501	HEID_TBK1-2	1	2	1	0.2	0.3	0.1	0.35	0.35	0	0	0	0	0	0
5/30/2024 22:36	58003	WCAR_T1	1	52	51	1.8	0.23	-1.57	0.59	0.62	0	0	0	0	0	0
5/30/2024 22:36	43505	WWIL_T1	1	1	0	2.6	1.9	-0.7	0	0	0	0	0	0	0	0
5/30/2024 22:36	53601	DALM_T2	1	1	0	0.3	1.3	1	0.24	-0.4	0	1	1	0	900	900
5/30/2024 22:36	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.19	0	0	0	0	0	0
5/30/2024 22:36	60801	BUCK_T1	8	31	23	0.13	0.15	0.02	-0.21	-0.23	0	0	0	0	0	0
5/30/2024 22:36	13704	SCHN_T2	5	5	0	0.16	0.26	0.1	-0.4	-0.41	0	0	0	0	0	0
5/30/2024 22:36	54201	PENN_T1	3	4	1	0.53	0.8	0.27	0	0	0	0	0	0	0	0
5/30/2024 22:36	29402	BELT_T1	1	1	0	8	8.5	0.5	0	0	0	0	0	0	0	0
5/30/2024 22:36	46504	LOHA_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
5/30/2024 22:37	59101	WALK_T2	44	58	14	0.27	0.65	0.38	-0.76	-0.71	0	0	0	0	0	0
5/30/2024 22:37	67703	WERN_T2	0	0	0	0	0	0	-0.6	-0.66	2	2	0	1800	1800	0
5/30/2024 22:37	26401	INOR_T1	1	1	0	9.5	9.7	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:37	20603	GRWO_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
5/30/2024 22:37	44301	BEAV_T2	0	0	0	0	0	0	0.36	0.37	1	1	0	600	600	0
5/30/2024 22:37	57104	SPHI_T2	1	2	1	0.4	0.45	0.05	-0.1	-0.12	0	0	0	0	0	0
5/30/2024 22:37	14603	SWHI_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	600	600	0
5/30/2024 22:37	64802	MONE_T2	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
5/30/2024 22:37	43301	WATS_T2	0	1	1	0	0.8	0.8	0	0	0	2	2	0	1800	1800
5/30/2024 22:37	60101	COCA_T1	0	0	0	0	0	0	-0.1	-0.13	1	1	0	600	600	0
5/30/2024 22:37	67401	WAKE_T2	76	53	-23	0.21	0.18	-0.03	-0.87	-0.86	0	0	0	0	0	0
5/30/2024 22:37	56801	BENV_T1	13	16	3	0.35	0.61	0.26	-0.68	-0.73	1	1	0	600	600	0
5/30/2024 22:37	56802	BENV_T2	1	3	2	0.5	0.4	-0.1	-2.76	-3	0	0	0	0	0	0
5/30/2024 22:37	60801	BUCK_T1	8	31	23	0.13	0.15	0.02	0	0	0	0	0	0	0	0
5/30/2024 22:37	57101	SPHI_T2	6	6	0	1.07	1.43	0.36	0	0	0	0	0	0	0	0
5/30/2024 22:37	50701	SMEC_T1	0	0	0	0	0	0	0.17	0.09	0	0	0	0	0	0
5/30/2024 22:37	40801	EXCH_T2	0	0	0	0	0	0	0.78	0.75	0	0	0	0	0	0
5/30/2024 22:37	52401	GRPA_T2	0	1	1	0	0.4	0.4	-0.41	-0.41	0	0	0	0	0	0
5/30/2024 22:37	52202	DEVO_T2	0	0	0	0	0	0	-0.79	-0.83	0	0	0	0	0	0
5/30/2024 22:37	67501	WEWI_T1	0	28	28	0	0.16	0.16	-1.32	-1.34	1	1	0	600	600	0
5/30/2024 22:37	52402	GRPA_T2	3	4	1	0.77	0.65	-0.12	0	0	0	0	0	0	0	0
5/30/2024 22:37	60104	COCA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:37	52404	GRPA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:37	54201	PENN_T1	3	4	1	0.53	0.8	0.27	0.27	0.24	0	0	0	0	0	0
5/30/2024 22:37	10801	CHHI_T1	0	0	0	0	0	0	-0.91	-0.94	1	1	0	900	900	0
5/30/2024 22:37	43302	WATS_T2	4	4	0	0.23	0.45	0.22	0	0	0	0	0	0	0	0
5/30/2024 22:37	60803	BUCK_T1	6	9	3	0.15	0.13	-0.02	-0.5	-0.53	1	1	0	600	600	0
5/30/2024 22:37	46001	BERW_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
5/30/2024 22:37	54203	PENN_T1	5	18	13	0.5	0.66	0.16	0	0	0	0	0	0	0	0
5/30/2024 22:37	22901	HARW_T1	0	0	0	0	0	0	-0.57	-0.56	1	1	0	1200	1200	0
5/30/2024 22:37	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.19	0	0	0	0	0	0
5/30/2024 22:37	57106	SPHI_T2	3	3	0	1.67	1.57	-0.1	0	0	0	0	0	0	0	0
5/30/2024 22:37	26402	INOR_T1	0	0	0	0	0	0	-0.42	-0.45	0	0	0	0	0	0
5/30/2024 22:37	60103	COCA_T2	0	0	0	0	0	0	0.29	0.35	1	1	0	900	900	0
5/30/2024 22:37	59102	WALK_T2	7	24	17	0.11	0.14	0.03	0	0	0	0	0	0	0	0
5/30/2024 22:37	55003	NEWP_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
5/30/2024 22:37	52403	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/30/2024 22:37	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:37	56803	BENV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:38	46004	BERW_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
5/30/2024 22:38	21705	SUBU_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
5/30/2024 22:38	63404	HONV_T1	0	34	34	0	0.19	0.19	0	0	0	0	0	0	0	0
5/30/2024 22:38	56803	BENV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:38	56802	BENV_T2	1	3	2	0.5	0.4	-0.1	-1.5	-1.52	0	0	0	0	0	0
5/30/2024 22:38	58102	NEKI_T1	1	1	0	0.2	0.8	0.6	0.25	0.18	0	0	0	0	0	0
5/30/2024 22:38	24201	PROV_T3	5	6	1	1.36	1.2	-0.16	-1.51	-1.52	1	1	0	1200	1200	0
5/30/2024 22:38	46001	BERW_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
5/30/2024 22:38	61701	ELIZ_T1	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
5/30/2024 22:38	13704	SCHN_T2	5	5	0	0.16	0.26	0.1	-0.41	-0.43	0	0	0	0	0	0
5/30/2024 22:38	46002	BERW_T2	0	0	0	0	0	0	-1.2	-1.25	1	1	0	900	900	0
5/30/2024 22:38	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:38	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/30/2024 22:38	43108	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:38	52501	PROG_T1	0	0	0	0	0	0	0.32	0.32	1	1	0	300	300	0
5/30/2024 22:38	67501	WEWI_T1	0	28	28	0	0.16	0.16	-1.34	-1.36	1	1	0	600	600	0
5/30/2024 22:38	52402	GRPA_T2	3	4	1	0.77	0.65	-0.12	-0.82	-0.85	0	0	0	0	0	0
5/30/2024 22:38	44703	MUNC_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
5/30/2024 22:38	43302	WATS_T2	4	4	0	0.23	0.45	0.22	0	0	0	0	0	0	0	0
5/30/2024 22:38	43103	SMIL_T2	21	22	1	0.82	0.88	0.06	0	0	0	0	0	0	0	0
5/30/2024 22:38	43102	SMIL_T2	8	8	0	0.83	0.81	-0.02	-0.92	-0.92	1	1	0	600	600	0
5/30/2024 22:38	24204	PROV_T3	2	2	0	2.9	2.9	0	0	0	0	0	0	0	0	0
5/30/2024 22:38	12006	HATF_T1	0	0	0	0	0	0	1.04	0.96	0	0	0	0	0	0
5/30/2024 22:38	65503	MOJO_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
5/30/2024 22:38	42802	SELI_T1	1	1	0	1.2	1.1	-0.1	-1	-0.11	1	1	0	900	900	0
5/30/2024 22:38	61801	EELI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:38	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
5/30/2024 22:38	24202	PROV_T4	0	0	0	0	0	0	-0.65	-0.66	1	1	0	1200	1200	0
5/30/2024 22:38	53901	HALI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:38	42903	MIDD_T2	9	10	1	0.66	0.6	-0.06	0	0	0	0	0	0	0	0
5/30/2024 22:38	66505	SMAN_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
5/30/2024 22:38	45402	WILO_T2	2	2	0	0.3	0.95	0.65	-0.9	-0.88	0	0	0	0	0	0
5/30/2024 22:38	43105	SMIL_T2	8	9	1	0.13	0.19	0.06	0	0	0	0	0	0	0	0
5/30/2024 22:38	42902	MIDD_T2	53	85	32	0.47	0.48	0.01	-0.54	-0.56	0	0	0	0	0	0
5/30/2024 22:38	63401	HONY_T1	0	0	0	0	0	0	-0.19	-0.17	1	1	0	600	600	0
5/30/2024 22:38	21704	SUBU_T1	0	0	0	0	0	0	-2.53	-2.5	2	2	0	2400	2400	0
5/30/2024 22:38	44701	MUNC_T2	311	1	-310	0.3	0.1	-0.2	-1.66	-1.65	0	0	0	0	0	0
5/30/2024 22:38	52403	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:38	52404	GRPA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:38	61803	EELI_T2	0	0	0	0	0	0	0.63	0.66	0	0	0	0	0	0
5/30/2024 22:38	42901	MIDD_T2	177	224	47	0.25	0.33	0.08	0	0	0	0	0	0	0	0
5/30/2024 22:38	67401	WAKE_T2	76	53	-23	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
5/30/2024 22:38	43301	WATS_T2	0	1	1	0	0.8	0.8	0	0	0	1	1	0	900	900
5/30/2024 22:38	61703	ELIZ_T1	0	0	0	0	0	0	-2.46	-2.48	2	2	0	2100	2100	0
5/30/2024 22:38	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
5/30/2024 22:38	14802	TREI_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
5/30/2024 22:38	58303	NOTT_T2	0	0	0	0	0	0	0.08	0.12	1	1	0	900	900	0
5/30/2024 22:38	16702	MACK_T1	0	0	0	0	0	0	-1.05	-1.06	0	0	0	0	0	0
5/30/2024 22:38	53903	HALI_T2	2	2	0	1.05	1.1	0.05	-0.22	-0.22	0	0	0	0	0	0
5/30/2024 22:38	14601	SWHI_T1	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
5/30/2024 22:38	56801	BENV_T1	13	16	3	0.35	0.61	0.26	-0.73	-0.75	1	1	0	600	600	0
5/30/2024 22:38	44702	MUNC_T2	8	0	-8	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/30/2024 22:39	65803	RTWN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:39	46005	BERW_T1	0	0	0	0	0	0	-0.57	-0.58	1	1	0	900	900	0
5/30/2024 22:39	64204	KINZ_T1	12	13	1	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
5/30/2024 22:39	45902	AUBU_T1	0	0	0	0	0	0	-0.33	-0.19	0	0	0	0	0	0
5/30/2024 22:39	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:39	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:39	45602	WOOL_T1	34	0	-34	0.25	0	-0.25	0.54	0.52	0	0	0	0	0	0
5/30/2024 22:39	64202	KINZ_T1	10	15	5	0.29	0.33	0.04	0	0	0	0	0	0	0	0
5/30/2024 22:39	56803	BENV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:39	65802	RTWN_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
5/30/2024 22:39	56801	BENV_T1	13	16	3	0.35	0.61	0.26	-0.73	-0.75	1	1	0	600	600	0
5/30/2024 22:39	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:39	42902	MIDD_T2	53	85	32	0.47	0.48	0.01	-0.27	-0.28	0	0	0	0	0	0
5/30/2024 22:39	42901	MIDD_T2	177	224	47	0.25	0.33	0.08	0	0	0	0	0	0	0	0
5/30/2024 22:39	58003	WCAR_T1	1	52	51	1.8	0.23	-1.57	1.24	1.12	0	0	0	0	0	0
5/30/2024 22:39	40601	PIGR_T1	4	26	22	0.1	0.12	0.02	-0.19	-0.25	0	0	0	0	0	0
5/30/2024 22:39	54501	ENOL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/30/2024 22:39	43302	WATS_T2	4	4	0	0.23	0.45	0.22	0	0	0	0	0	0	0	0
5/30/2024 22:39	46004	BERW_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
5/30/2024 22:39	58001	WCAR_T1	4	7	3	1.3	1.06	-0.24	0	0	0	0	0	0	0	0
5/30/2024 22:39	58402	MORO_T1	0	0	0	0	0	0	-0.42	-0.45	2	2	0	1500	1500	0
5/30/2024 22:39	24105	EHAZ_T1	4	4	0	5.63	5.45	-0.18	0	0	0	0	0	0	0	0
5/30/2024 22:39	42201	SHEN_T2	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
5/30/2024 22:39	24104	EHAZ_T1	0	1	1	0	0.1	0.1	-0.99	-0.98	1	1	0	1200	1200	0
5/30/2024 22:39	65604	QVIL_T2	0	1	1	0	0.1	0.1	0.22	0.24	0	0	0	0	0	0
5/30/2024 22:39	21705	SUBU_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
5/30/2024 22:39	54502	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/30/2024 22:39	65602	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:39	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.54	-0.66	6	6	0	5400	5400	0
5/30/2024 22:39	21703	SUBU_T1	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
5/30/2024 22:39	65601	QVIL_T2	42	98	56	0.15	0.19	0.04	0	0	0	0	0	0	0	0
5/30/2024 22:39	44504	HAMI_T2	0	0	0	0	0	0	-1.35	-1.33	0	0	0	0	0	0
5/30/2024 22:39	15103	UPHA_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
5/30/2024 22:39	42903	MIDD_T2	9	10	1	0.66	0.6	-0.06	0	0	0	0	0	0	0	0
5/30/2024 22:39	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:39	54505	ENOL_T2	1	1	0	0.2	0.8	0.6	-1.27	-1.33	1	1	0	600	600	0
5/30/2024 22:39	45802	HEGI_T2	0	36	36	0	0.46	0.46	2.1	2.2	0	0	0	0	0	0
5/30/2024 22:39	64501	LAVI_T1	0	0	0	0	0	0	-0.31	-0.24	0	0	0	0	0	0
5/30/2024 22:39	64101	REFR_T1	0	0	0	0	0	0	-0.39	-0.26	0	0	0	0	0	0
5/30/2024 22:39	40603	PIGR_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
5/30/2024 22:39	64201	KINZ_T1	6	9	3	0.42	0.41	-0.01	0	0	0	0	0	0	0	0
5/30/2024 22:39	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
5/30/2024 22:39	64203	KINZ_T1	0	0	0	0	0	0	0.49	0.43	0	0	0	0	0	0
5/30/2024 22:39	40602	PIGR_T1	0	0	0	0	0	0	-0.67	-0.65	1	1	0	600	600	0
5/30/2024 22:39	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.19	1	1	0	600	600	0
5/30/2024 22:39	43301	WATS_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/30/2024 22:39	60101	COCA_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
5/30/2024 22:39	52502	PROG_T2	0	0	0	0	0	0	-0.69	-0.7	1	1	0	900	900	0
5/30/2024 22:40	20401	ASHF_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
5/30/2024 22:40	67605	WARW_T1	14	14	0	0.49	0.48	-0.01	-1.22	-1.22	0	0	0	0	0	0
5/30/2024 22:40	46101	MACI_T2	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
5/30/2024 22:40	63801	HEMP_T1	0	0	0	0	0	0	-0.87	-0.88	1	1	0	900	900	0
5/30/2024 22:40	10801	OHH_T1	0	0	0	0	0	0	-0.94	-0.97	1	1	0	900	900	0
5/30/2024 22:40	59201	THOM_T1	15	17	2	0.23	0.31	0.08	0	0	0	0	0	0	0	0
5/30/2024 22:40	40802	EXCH_T2	0	0	0	0	0	0	-0.31	-0.25	0	0	0	0	0	0
5/30/2024 22:40	57106	SPHI_T2	3	3	0	1.67	1.57	-0.1	0	0	0	0	0	0	0	0
5/30/2024 22:40	45702	LIND_T2	1	1	0	0.4	0.5	0.1	-0.57	-0.57	0	0	0	0	0	0
5/30/2024 22:40	43201	MVIL_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
5/30/2024 22:40	26603	BROO_T1	1	1	0	0.6	0.1	-0.5	0.45	0.46	0	0	0	0	0	0
5/30/2024 22:40	67002	STHI_T2	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
5/30/2024 22:40	58102	NEKI_T1	1	1	0	0.2	0.8	0.6	0.25	0.18	0	0	0	0	0	0
5/30/2024 22:40	44301	BEAV_T2	0	0	0	0	0	0	0.37	0.34	1	1	0	600	600	0
5/30/2024 22:40	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:40	56803	BENV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:40	56802	BENV_T2	1	3	2	0.5	0.4	-0.1	-0.75	-0.76	0	0	0	0	0	0
5/30/2024 22:40	57104	SPHI_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
5/30/2024 22:40	57101	SPHI_T2	6	6	0	1.07	1.43	0.36	0.28	0.29	0	0	0	0	0	0
5/30/2024 22:40	56801	BENV_T1	13	16	3	0.35	0.61	0.26	-0.73	-0.75	1	1	0	600	600	0
5/30/2024 22:40	58202	NEWV_T1	7	8	1	0.3	0.66	0.36	-0.17	-0.01	0	0	0	0	0	0
5/30/2024 22:40	67703	WERN_T2	0	0	0	0	0	0	-0.33	-0.31	1	1	0	900	900	0
5/30/2024 22:40	42201	SHEN_T2	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
5/30/2024 22:40	58402	MORO_T1	0	0	0	0	0	0	-0.42	-0.45	2	2	0	1500	1500	0
5/30/2024 22:40	14403	SSLA_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
5/30/2024 22:40	59202	THOM_T1	167	259	92	0.18	0.25	0.07	0	0	0	0	0	0	0	0
5/30/2024 22:40	14404	SSLA_T1	1	1	0	5.8	6.1	0.3	0	0	0	0	0	0	0	0
5/30/2024 22:40	63804	HEMP_T1	1	1	0	6	5.5	-0.5	0	0	0	0	0	0	0	0
5/30/2024 22:40	43302	WATS_T2	4	4	0	0.23	0.45	0.22	0	0	0	0	0	0	0	0
5/30/2024 22:40	20403	ASHF_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
5/30/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	-0.19	-0.13	0	0	0	0	0	0
5/30/2024 22:40	46001	BERW_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
5/30/2024 22:40	43301	WATS_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
5/30/2024 22:40	55002	NEWP_T1	5	5	0	0.38	0.5	0.12	-0.29	-0.31	0	0	0	0	0	0
5/30/2024 22:41	21203	ECAR_T1	27	8	-19	0.29	0.3	0.01	0.43	0.42	0	0	0	0	0	0
5/30/2024 22:41	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:41	54505	ENOL_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
5/30/2024 22:41	14601	SWHI_T1	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
5/30/2024 22:41	14404	SSLA_T1	1	1	0	5.8	6.1	0.3	0	0	0	0	0	0	0	0
5/30/2024 22:41	54501	ENOL_T2	0	3	3	0	0.17	0.17	-0.49	-0.5	1	1	0	600	600	0
5/30/2024 22:41	54502	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/30/2024 22:41	11301	EMMA_T1	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
5/30/2024 22:41	42902	MIDD_T2	53	85	32	0.47	0.48	0.01	-0.27	-0.28	0	0	0	0	0	0
5/30/2024 22:41	47401	PENS_T1	1	0	-1	0.1	0	-0.1	1.49	1.58	0	0	0	0	0	0
5/30/2024 22:41	43802	SWIL_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
5/30/2024 22:41	21206	ECAR_T2	1	1	0	6.9	7.3	0.4	1.07	1.04	0	0	0	0	0	0
5/30/2024 22:41	52202	DEVO_T2	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
5/30/2024 22:41	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:41	58302	NOTT_T1	0	0	0	0	0	0	0.89	0.74	0	0	0	0	0	0
5/30/2024 22:41	58202	NEWV_T1	7	8	1	0.3	0.66	0.36	-0.17	-0.01	0	0	0	0	0	0
5/30/2024 22:41	42903	MIDD_T2	9	10	1	0.66	0.6	-0.06	0	0	0	0	0	0	0	0
5/30/2024 22:41	47403	PENS_T1	0	12	12	0	0.15	0.15	0	0	0	0	0	0	0	0
5/30/2024 22:41	67503	WEWI_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
5/30/2024 22:41	42503	ALTA_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
5/30/2024 22:41	42901	MIDD_T2	177	224	47	0.25	0.33	0.08	0	0	0	0	0	0	0	0
5/30/2024 22:41	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:41	20403	ASHF_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
5/30/2024 22:41	20401	ASHF_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
5/30/2024 22:41	65502	MOJO_T2	0	0	0	0	0	0	-1.87	-2	1	1	0	900	900	0
5/30/2024 22:41	43402	BENT_T1	0	64	64	0	0.23	0.23	-0.97	-0.97	1	1	0	900	900	0
5/30/2024 22:41	56802	BENV_T2	1	3	2	0.5	0.4	-0.1	-0.75	-0.76	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/30/2024 22:41	43801	SWIL_T1	26	2	-24	0.4	3.2	2.8	0	0	0	0	0	0	0	0
5/30/2024 22:41	14403	SSLA_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
5/30/2024 22:41	49803	UNIV_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
5/30/2024 22:42	54505	ENOL_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
5/30/2024 22:42	66503	SMAN_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
5/30/2024 22:42	56801	BENV_T1	13	16	3	0.35	0.61	0.26	-0.73	-0.75	1	1	0	600	600	0
5/30/2024 22:42	51702	OBER_T1	2	2	0	2.9	2.85	-0.05	0	0	0	0	0	0	0	0
5/30/2024 22:42	42201	SHEN_T2	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
5/30/2024 22:42	60104	COCA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:42	53901	HALI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:42	56803	BENV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:42	54503	ENOL_T2	0	0	0	0	0	0	-1.28	-1.27	1	1	0	600	600	0
5/30/2024 22:42	52501	PROG_T1	0	0	0	0	0	0	0.32	0.32	1	1	0	300	300	0
5/30/2024 22:42	43301	WATS_T2	0	1	1	0	0.8	0.8	0	0	2	2	0	1800	1800	0
5/30/2024 22:42	67703	WERN_T2	0	0	0	0	0	0	-0.33	-0.31	1	1	0	900	900	0
5/30/2024 22:42	54502	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/30/2024 22:42	40601	PIGR_T1	4	26	22	0.1	0.12	0.02	-0.19	-0.25	0	0	0	0	0	0
5/30/2024 22:42	54501	ENOL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/30/2024 22:42	16605	PONO_T1	0	0	0	0	0	0	-0.5	-0.52	1	1	0	1200	1200	0
5/30/2024 22:42	51704	OBER_T1	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
5/30/2024 22:42	61801	EELI_T2	0	1	1	0	0.2	0.2	-0.9	-0.96	0	0	0	0	0	0
5/30/2024 22:42	66505	SMAN_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
5/30/2024 22:42	46004	BERW_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
5/30/2024 22:42	44301	BEAV_T2	0	0	0	0	0	0	0.37	0.34	1	1	0	600	600	0
5/30/2024 22:42	56802	BENV_T2	1	3	2	0.5	0.4	-0.1	-1.5	-1.52	0	0	0	0	0	0
5/30/2024 22:42	43302	WATS_T2	4	4	0	0.23	0.45	0.22	0	0	0	0	0	0	0	0
5/30/2024 22:42	55002	NEWP_T1	5	5	0	0.38	0.5	0.12	-0.29	-0.31	0	0	0	0	0	0
5/30/2024 22:42	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:42	53903	HALI_T2	2	2	0	1.05	1.1	0.05	-0.22	-0.22	0	0	0	0	0	0
5/30/2024 22:42	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:42	52502	PROG_T2	0	0	0	0	0	0	-0.69	-0.7	1	1	0	900	900	0
5/30/2024 22:42	20601	GRWO_T2	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
5/30/2024 22:42	58401	MORO_T1	0	0	0	0	0	0	-2.42	-2.38	2	2	0	1200	1200	0
5/30/2024 22:42	60103	COCA_T2	0	0	0	0	0	0	0.35	0.35	1	1	0	900	900	0
5/30/2024 22:42	44505	HAMI_T2	0	0	0	0	0	0	0.41	0.46	0	0	0	0	0	0
5/30/2024 22:43	43302	WATS_T2	4	4	0	0.23	0.45	0.22	0	0	0	0	0	0	0	0
5/30/2024 22:43	46801	HEPB_T2	3	2	-1	0.73	0.35	-0.38	0.54	0.52	0	0	0	0	0	0
5/30/2024 22:43	67605	WARW_T1	14	14	0	0.49	0.48	-0.01	-1.22	-1.22	0	0	0	0	0	0
5/30/2024 22:43	67605	WARW_T1	14	14	0	0.49	0.48	-0.01	-1.22	-1.22	0	0	0	0	0	0
5/30/2024 22:43	67605	WARW_T1	14	14	0	0.49	0.48	-0.01	-1.22	-1.22	0	0	0	0	0	0
5/30/2024 22:43	67605	WARW_T1	14	14	0	0.49	0.48	-0.01	-1.22	-1.22	0	0	0	0	0	0
5/30/2024 22:43	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
5/30/2024 22:43	46001	BERW_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
5/30/2024 22:43	56803	BENV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:43	23001	SAUG_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
5/30/2024 22:43	63304	GREE_T1	0	0	0	0	0	0	-0.98	-1.06	0	0	0	0	0	0
5/30/2024 22:43	44301	BEAV_T2	0	0	0	0	0	0	0.37	0.34	1	1	0	600	600	0
5/30/2024 22:43	56801	BENV_T1	13	16	3	0.35	0.61	0.26	-0.73	-0.75	1	1	0	600	600	0
5/30/2024 22:43	65901	SAKR_T2	1	1	0	8.8	8.7	-0.1	0	0	0	0	0	0	0	0
5/30/2024 22:43	67401	WAKE_T2	76	53	-23	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
5/30/2024 22:43	44201	POIN_T1	68	266	198	0.24	0.24	0	-2.27	-2.3	2	2	0	2100	2100	0
5/30/2024 22:43	52501	PROG_T1	0	0	0	0	0	0	0.32	0.32	1	1	0	300	300	0
5/30/2024 22:43	43301	WATS_T2	0	1	1	0	0.8	0.8	0	0	1	1	0	900	900	0
5/30/2024 22:43	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/30/2024 22:43	40101	HUNT_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
5/30/2024 22:43	40601	PIGR_T1	4	26	22	0.1	0.12	0.02	-0.19	-0.25	0	0	0	0	0	0
5/30/2024 22:43	45401	WBLO_T2	2	2	0	0.3	0.95	0.65	-0.9	-0.88	0	0	0	0	0	0
5/30/2024 22:43	42002	MNVL_T2	2	1	-1	0.55	1.7	1.15	0	0	0	0	0	0	0	0
5/30/2024 22:43	65904	SAKR_T2	0	0	0	0	0	0	-1.31	-1.68	2	3	1	900	1500	600
5/30/2024 22:43	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:43	42001	MNVL_T2	5	0	-5	0.18	0	-0.18	-0.04	-0.07	0	0	0	0	0	0
5/30/2024 22:43	40903	JESH_T1	132	0	-132	0.18	0	-0.18	0	0	0	0	0	0	0	0
5/30/2024 22:44	43103	SMIL_T2	21	22	1	0.82	0.88	0.06	-0.99	-0.97	0	0	0	0	0	0
5/30/2024 22:44	43301	WATS_T2	0	1	1	0	0.8	0.8	0	0	1	1	0	900	900	0
5/30/2024 22:44	52402	GRPA_T2	3	4	1	0.77	0.65	-0.12	-0.82	-0.85	0	0	0	0	0	0
5/30/2024 22:44	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/30/2024 22:44	44703	MUNC_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
5/30/2024 22:44	56803	BENV_T1	0	1	1	0	0.2	0.2	-0.09	-0.1	0	0	0	0	0	0
5/30/2024 22:44	44701	MUNC_T2	311	1	-310	0.3	0.1	-0.2	-1.66	-1.65	0	0	0	0	0	0
5/30/2024 22:44	40702	FFLD_T1	0	0	0	0	0	0	-0.48	-0.66	0	0	0	0	0	0
5/30/2024 22:44	57106	SPHI_T2	3	3	0	1.67	1.57	-0.1	0	0	0	0	0	0	0	0
5/30/2024 22:44	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:44	56801	BENV_T1	13	16	3	0.35	0.61	0.26	-0.73	-0.75	1	1	0	600	600	0
5/30/2024 22:44	42901	MIDD_T2	177	224	47	0.25	0.33	0.08	0	0	0	0	0	0	0	0
5/30/2024 22:44	56802	BENV_T2	1	3	2	0.5	0.4	-0.1	-0.75	-0.76	0	0	0	0	0	0
5/30/2024 22:44	43105	SMIL_T2	8	9	1	0.13	0.19	0.06	0	0	0	0	0	0	0	0
5/30/2024 22:44	40701	FFLD_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/30/2024 22:44	58402	MORO_T1	0	0	0	0	0	0	-0.42	-0.45	2	2	0	1500	1500	0
5/30/2024 22:44	40902	JESH_T1	517	0	-517	0.21	0	-0.21	-0.84	-0.84	0	0	0	0	0	0
5/30/2024 22:44	43102	SMIL_T2	8	8	0	0.83	0.81	-0.02	0	0	0	0	0	0	0	0
5/30/2024 22:44	52404	GRPA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:44	40901	JESH_T1	151	3	-148	0.29	0.1	-0.19	0	0	0	0	0	0	0	0
5/30/2024 22:44	57104	SPHI_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
5/30/2024 22:44	47401	PENS_T1	1	0	-1	0.1	0	-0.1	0.74	0.79	0	0	0	0	0	0
5/30/2024 22:44	42902	MIDD_T2	53	85	32	0.47	0.48	0.01	-0.27	-0.28	0	0	0	0	0	0
5/30/2024 22:44	47403	PENS_T1	0	12	12	0	0.15	0.15	0	0	0	0	0	0	0	0
5/30/2024 22:44	64101	REFR_T1	0	0	0	0	0	0	-0.19	-0.13	0	0	0	0	0	0
5/30/2024 22:44	43108	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:44	42903	MIDD_T2	9	10	1	0.66	0.6	-0.06	0	0	0	0	0	0	0	0
5/30/2024 22:44	44702	MUNC_T2	8	0	-8	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/30/2024 22:44	57101	SPHI_T2	6	6	0	1.07	1.43	0.36	0.28	0.29	0	0	0	0	0	0
5/30/2024 22:44	67805	WLAN_T1	221	199	-22	0.16	0.16	0	-1.52	-1.5	0	0	0	0	0	0
5/30/2024 22:44	40801	EXCH_T2	0	0	0	0	0	0	0.75	0.81	0	0	0	0	0	0
5/30/2024 22:44	52403	GRPA_T2	0	2	2	0	0.2	0.2	0	-0.05	0	0	0	0	0	0
5/30/2024 22:44	43302	WATS_T2	4	4	0	0.23	0.45	0.22	0	0	0	0	0	0	0	0
5/30/2024 22:45	24201	PROV_T3	1	29	28	6.9	0.33	-6.57	-1.52	-1.53	1	1	0	1200	1200	0
5/30/2024 22:45	40601	PIGR_T1	0	84	84	0	0.18	0.18	0	0	0	0	0	0	0	0
5/30/2024 22:45	53903	HALI_T2	2	2	0	1.1	1.1	0	-0.22	-0.22	0	0	0	0	0	0
5/30/2024 22:45	29402	BELT_T1	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
5/30/2024 22:45	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/30/2024 22:45	43704	WILL_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
5/30/2024 22:45	53901	HALI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:45	51305	WIND_T1	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
5/30/2024 22:45	53902	HALI_T2	1	1	0	5.5	5.4	-0.1	-0.28	-0.26	0	0	0	0	0	0
5/30/2024 22:45	65001	NEFF_T2	0	25	25	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:45	65003	NEFF_T2	3	4	1	0.13	0.18	0.05	-1.5	-1.47	1	1	0	1200	1200	0
5/30/2024 22:45	24205	PROV_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/30/2024 22:45	42901	MIDD_T2	182	298	116	0.26	0.41	0.15	0	0	0	0	0	0	0	0
5/30/2024 22:45	40801	EXCH_T2	0	0	0	0	0	0	0.75	0.81	0	0	0	0	0	0
5/30/2024 22:45	22405	MORG_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
5/30/2024 22:45	42902	MIDD_T2	62	122	60	0.44	0.48	0.04	-0.27	-0.28	0	0	0	0	0	0
5/30/2024 22:45	43701	WILL_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
5/30/2024 22:45	42903	MIDD_T2	9	20	11	0.64	0.41	-0.23	0	0	0	0	0	0	0	0
5/30/2024 22:45	24204	PROV_T3	2	2	0	2.9	2.95	0.05	0	0	0	0	0	0	0	0
5/30/2024 22:45	40602	PIGR_T1	0	0	0	0	0	0	-0.67	-0.65	1	1	0	600	600	0
5/30/2024 22:45	44301	BEAV_T2	0	0	0	0	0	0	0.37	0.34	1	1	0	600	600	0
5/30/2024 22:45	46102	MACJ_T1	0	0	0	0	0	0	0.31	0.27	0	0	0	0	0	0
5/30/2024 22:46	44201	POIN_T1	80	374	294	0.22	0.26	0.04	-2.27	-2.3	2	2	0	2100	2100	0
5/30/2024 22:46	13701	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:46	52402	GRPA_T2	4	4	0	0.45	0.68	0.23	0	0	0	0	0	0	0	0
5/30/2024 22:46	13704	SCHN_T2	5	5	0	0.18	0.3	0.12	-0.41	-0.43	0	0	0	0	0	0
5/30/2024 22:46	52404	GRPA_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/30/2024 22:46	52401	GRPA_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/30/2024 22:46	43301	WATS_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
5/30/2024 22:46	43302	WATS_T2	3	4	1	0.13	0.45	0.32	0	0	0	0	0	0	0	0
5/30/2024 22:46	12601	MACA_T1	0	8	8	0	0	0	0.74	0.73	0	0	0	0	0	0
5/30/2024 22:46	26601	BROO_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
5/30/2024 22:46	26603	BROO_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
5/30/2024 22:46	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:46	52403	GRPA_T2	0	4	4	0	0.18	0.18	0	-0.05	0	0	0	0	0	0
5/30/2024 22:47	56802	BENV_T2	1	138	137	0.7	0.25	-0.45	-0.75	-0.76	0	0	0	0	0	0
5/30/2024 22:47	52402	GRPA_T2	4	4	0	0.45	0.68	0.23	0	0	0	0	0	0	0	0
5/30/2024 22:47	51301	WIND_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
5/30/2024 22:47	52401	GRPA_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/30/2024 22:47	43301	WATS_T2	1	1	0	0.2	0.8	0.6	0	0	1	1	0	900	900	0
5/30/2024 22:47	52404	GRPA_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/30/2024 22:47	40801	EXCH_T2	0	0	0	0	0	0	0.75	0.81	0	0	0	0	0	0
5/30/2024 22:47	43302	WATS_T2	3	4	1	0.13	0.45	0.32	0	0	0	0	0	0	0	0
5/30/2024 22:47	59201	THOM_T1	17	19	2	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
5/30/2024 22:47	59202	THOM_T1	241	271	30	0.24	0.27	0.03	0	0	0	0	0	0	0	0
5/30/2024 22:47	40802	EXCH_T2	0	0	0	0	0	0	-0.31	-0.25	0	0	0	0	0	0
5/30/2024 22:47	52403	GRPA_T2	0	4	4	0	0.18	0.18	0	-0.05	0	0	0	0	0	0
5/30/2024 22:48	43103	SMIL_T2	19	22	3	0.81	0.88	0.07	0	0	0	0	0	0	0	0
5/30/2024 22:48	43105	SMIL_T2	6	9	3	0.12	0.19	0.07	0	0	0	0	0	0	0	0
5/30/2024 22:48	43108	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/30/2024 22:48	43102	SMIL_T2	8	8	0	0.81	0.79	-0.02	-0.92	-0.92	1	1	0	600	600	0
5/30/2024 22:48	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:49	59102	WALK_T2	24	46	22	0.14	0.2	0.06	0	0	0	0	0	0	0	0
5/30/2024 22:49	46504	LOHA_T1	2	2	0	0.35	0.8	0.45	0	0	0	0	0	0	0	0
5/30/2024 22:49	46506	LOHA_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
5/30/2024 22:49	43402	BENT_T1	36	63	27	0.17	0.23	0.06	-0.97	-0.97	1	1	0	900	900	0
5/30/2024 22:49	59101	WALK_T2	48	68	20	0.36	0.64	0.28	-0.71	-0.72	0	0	0	0	0	0
5/30/2024 22:49	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2024 22:49	40101	HUNT_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
5/30/2024 22:49	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
5/30/2024 22:50	44302	BEAV_T2	0	0	0	0	0	0	1.05	1.07	0	0	0	0	0	0
5/30/2024 22:50	67203	TEHI_T1	0	0	0	0	0	0	2.14	2.06	2	2	0	1500	1500	0
5/30/2024 22:52	45602	WOOL_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
5/30/2024 22:55	46002	BERW_T2	0	0	0	0	0	0	-1.25	-1.24	1	1	0	900	900	0
5/30/2024 22:57	42501	ALTA_T2	0	0	0	0	0	0	0.04	0.06	1	1	0	600	600	0
5/30/2024 22:59	62106	ELAN_T1	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
5/30/2024 23:01	14204	EALL_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
5/30/2024 23:04	28403	HART_T2	0	0	0	0	0	0	-0.94	-0.93	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/30/2024 23:09	67605	WARW_T1	14	21	7	0.48	0.63	0.15	0	0	0	0	0	0	0	0
5/30/2024 23:09	67603	WARW_T1	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
5/30/2024 23:10	40801	EXCH_T2	0	0	0	0	0	0	0.78	0.81	0	0	0	0	0	0
5/30/2024 23:18	43402	BENT_T1	3	0	-3	0.2	0	-0.2	-0.96	-0.96	1	1	0	900	900	0
5/30/2024 23:19	43402	BENT_T1	3	0	-3	0.2	0	-0.2	-0.96	-0.96	1	1	0	900	900	0
5/31/2024 0:06	61103	BERK_T5	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
5/31/2024 0:50	67604	WARW_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
5/31/2024 0:50	67605	WARW_T1	15	18	3	0.66	0.72	0.06	0	0	0	0	0	0	0	0
5/31/2024 3:53	65901	SAKR_T2	1	1	0	9.2	9.3	0.1	-1.53	-1.49	1	1	0	900	900	0
5/31/2024 6:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/31/2024 6:11	29402	BELT_T1	1	1	0	7.4	8.5	1.1	0	0	0	0	0	0	0	0
5/31/2024 6:38	24201	PROV_T3	1	1	0	6.6	6.8	0.2	-0.28	-0.25	0	0	-1	0	0	0
5/31/2024 6:38	24204	PROV_T3	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
5/31/2024 6:45	62102	ELAN_T1	0	0	0	0	0	0	0.51	0.55	0	0	0	0	0	0
5/31/2024 6:50	15203	SFAR_T2	12	73	61	0.1	0.16	0.06	-2.86	-2.84	0	0	0	0	0	0
5/31/2024 6:51	65901	SAKR_T2	1	1	0	9.4	9.1	-0.3	-1.32	-1.17	1	1	0	900	900	0
5/31/2024 6:51	67703	WERN_T2	0	0	0	0	0	0	-0.41	-0.41	1	1	0	900	900	0
5/31/2024 6:52	15203	SFAR_T2	12	73	61	0.1	0.16	0.06	-1.43	-1.42	0	0	0	0	0	0
5/31/2024 6:54	67703	WERN_T2	0	0	0	0	0	0	-0.41	-0.36	1	1	0	900	900	0
5/31/2024 6:55	67503	WEWI_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
5/31/2024 6:55	67502	WEWI_T2	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 6:56	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/31/2024 6:56	29402	BELT_T1	1	1	0	8.2	8.4	0.2	0	0	0	0	0	0	0	0
5/31/2024 6:58	26703	HEML_T1	0	0	0	0	0	0	-0.99	-0.97	1	1	0	600	600	0
5/31/2024 6:58	26704	HEML_T2	39	48	9	0.13	0.15	0.02	-0.9	-0.71	1	1	0	1200	1200	0
5/31/2024 6:59	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 7:01	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 7:07	13704	SOHN_T2	0	5	5	0	0.16	0.16	-0.4	-0.35	0	0	0	0	0	0
5/31/2024 7:08	56803	BENV_T1	0	1	1	0	1.5	1.5	-0.12	-0.12	0	0	0	0	0	0
5/31/2024 7:08	56801	BENV_T1	6	11	5	0.97	1.32	0.35	0	0	0	0	0	0	0	0
5/31/2024 7:08	67602	WARW_T2	0	0	0	0	0	0	0.11	0.09	1	1	0	1200	1200	0
5/31/2024 7:09	16301	ALPA_T1	0	1	1	0	0.1	0.1	-0.52	-0.49	0	0	0	0	0	0
5/31/2024 7:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/31/2024 7:09	29402	BELT_T1	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0	0
5/31/2024 7:09	56802	BENV_T2	1	1	0	0.5	1.3	0.8	-2.98	-3	0	0	0	0	0	0
5/31/2024 7:10	56803	BENV_T1	0	1	1	0	1.5	1.5	-0.12	-0.12	0	0	0	0	0	0
5/31/2024 7:10	62607	ENGL_T1	0	0	0	0	0	0	-1.21	-1.22	1	1	0	300	300	0
5/31/2024 7:10	56801	BENV_T1	6	11	5	0.97	1.32	0.35	0	0	0	0	0	0	0	0
5/31/2024 7:10	67602	WARW_T2	0	0	0	0	0	0	0.11	0.09	1	1	0	1200	1200	0
5/31/2024 7:14	62601	ENGL_T1	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
5/31/2024 7:15	17805	GILB_T2	0	0	0	0	0	0	0.12	0.17	0	0	0	0	0	0
5/31/2024 7:15	17804	GILB_T2	7	13	6	0.1	0.17	0.07	0	0	0	0	0	0	0	0
5/31/2024 7:17	17804	GILB_T2	7	13	6	0.1	0.17	0.07	0	0	0	0	0	0	0	0
5/31/2024 7:17	17805	GILB_T2	0	0	0	0	0	0	0.12	0.17	0	0	0	0	0	0
5/31/2024 7:17	13103	NHAM_T2	0	0	0	0	0	0	-1.75	-1.69	1	1	0	600	600	0
5/31/2024 7:21	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
5/31/2024 7:22	58006	WCAR_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
5/31/2024 7:22	58001	WCAR_T1	4	4	0	1.1	1.38	0.28	0	0	0	0	0	0	0	0
5/31/2024 7:22	67703	WERN_T2	0	0	0	0	0	0	-0.72	-0.59	2	2	0	1800	1800	0
5/31/2024 7:22	67702	WERN_T2	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
5/31/2024 7:22	58003	WCAR_T1	1	1	0	1.7	1.8	0.1	0	0.67	1	0	-1	600	0	-600
5/31/2024 7:23	67702	WERN_T2	0	0	0	0	0	0	-0.08	-0.05	0	0	0	0	0	0
5/31/2024 7:23	65702	RVIL_T2	0	0	0	0	0	0	-1.02	-1.03	1	1	0	600	600	0
5/31/2024 7:24	29402	BELT_T1	1	2	1	8.4	4.4	-4	0	0	0	0	0	0	0	0
5/31/2024 7:24	58001	WCAR_T1	4	4	0	1.1	1.38	0.28	0	0	0	0	0	0	0	0
5/31/2024 7:24	29401	BELT_T1	0	72	72	0	0.23	0.23	0	0	1	1	0	900	900	0
5/31/2024 7:24	67702	WERN_T2	0	0	0	0	0	0	-0.08	-0.05	0	0	0	0	0	0
5/31/2024 7:24	58003	WCAR_T1	1	1	0	1.7	1.8	0.1	0.67	0.68	1	0	-1	600	0	-600
5/31/2024 7:24	67303	WYOM_T2	0	0	0	0	0	0	-0.61	-0.56	0	0	0	0	0	0
5/31/2024 7:25	67703	WERN_T2	0	0	0	0	0	0	-0.59	-0.65	2	2	0	1800	1800	0
5/31/2024 7:25	67702	WERN_T2	0	0	0	0	0	0	-0.08	-0.05	0	0	0	0	0	0
5/31/2024 7:26	54503	ENOL_T2	0	0	0	0	0	0	-2.08	-2.08	1	1	0	600	600	0
5/31/2024 7:26	54501	ENOL_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
5/31/2024 7:26	54505	ENOL_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
5/31/2024 7:26	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
5/31/2024 7:26	62605	ENGL_T1	0	4	4	0	0.1	0.1	-0.9	-0.87	0	0	0	0	0	0
5/31/2024 7:27	17804	GILB_T2	7	13	6	0.1	0.17	0.07	0	0	0	0	0	0	0	0
5/31/2024 7:27	17805	GILB_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
5/31/2024 7:28	54501	ENOL_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
5/31/2024 7:28	63804	HEMP_T1	1	1	0	6.6	5.6	-1	0	0	0	0	0	0	0	0
5/31/2024 7:28	63801	HEMP_T1	0	0	0	0	0	0	-0.89	-0.58	1	1	0	900	900	0
5/31/2024 7:28	54505	ENOL_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
5/31/2024 7:28	40101	HUNT_T2	0	0	0	0	0	0	-0.67	-0.42	0	0	0	0	0	0
5/31/2024 7:28	54503	ENOL_T2	0	0	0	0	0	0	-2.08	-2.08	1	1	0	600	600	0
5/31/2024 7:28	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	-2.34	-2.3	2	2	0	1200	1200	0
5/31/2024 7:30	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/31/2024 7:30	54503	ENOL_T2	0	0	0	0	0	0	-2.08	-2.08	1	1	0	600	600	0
5/31/2024 7:30	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
5/31/2024 7:30	54501	ENOL_T2	4	4	0	0.2	0.23	0.03	0	0	0	0	0	0	0	0
5/31/2024 7:33	58401	MORO_T1	0	0	0	0	0	0	-1.04	-1.08	1	1	0	600	600	0
5/31/2024 7:34	13502	MCMI_T1	12	7	-5	0.13	0.17	0.04	0	0	0	0	0	0	0	0
5/31/2024 7:34	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
5/31/2024 7:37	15801	WGAT_T1	3	3	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
5/31/2024 7:37	15803	WGAT_T1	0	0	0	0	0	0	1.36	1.43	0	0	0	0	0	0
5/31/2024 7:38	14801	TREI_T2	0	3	3	0	0.17	0.17	0.35	0.37	0	0	0	0	0	0
5/31/2024 7:38	14802	TREI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 7:39	58701	ROSE_T2	0	0	0	0	0	0	-1.68	-1.68	1	1	0	600	600	0
5/31/2024 7:39	58705	ROSE_T2	5	5	0	2.28	2.7	0.42	0	0	0	0	0	0	0	0
5/31/2024 7:39	67401	WAKE_T2	0	2	2	0	0.1	0.1	-0.57	-0.77	0	0	0	0	0	0
5/31/2024 7:39	15803	WGAT_T1	0	0	0	0	0	0	1.43	1.36	0	0	0	0	0	0
5/31/2024 7:39	14801	TREI_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
5/31/2024 7:39	14802	TREI_T2	0	2	2	0	0.1	0.1	0.3	0.36	0	0	0	0	0	0
5/31/2024 7:39	15801	WGAT_T1	3	3	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
5/31/2024 7:39	67402	WAKE_T2	0	0	0	0	0	0	0.43	1.02	1	0	-1	600	0	-600
5/31/2024 7:43	60802	BUCK_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
5/31/2024 7:46	64204	KINZ_T1	2	1	-1	0.6	1	0.4	0	0	0	0	0	0	0	0
5/31/2024 7:46	64201	KINZ_T1	0	0	0	0	0	0	0.05	0.04	3	3	0	1500	1500	0
5/31/2024 7:46	64202	KINZ_T1	2	1	-1	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
5/31/2024 7:46	12302	LANA_T2	0	0	0	0	0	0	-1.7	-1.73	2	2	0	1500	1500	0
5/31/2024 7:46	58402	MORO_T1	0	0	0	0	0	0	-0.26	-0.22	2	2	0	1500	1500	0
5/31/2024 7:47	52003	LING_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/31/2024 7:47	46602	LAOR_T1	5	1	-4	0.16	0.1	-0.06	-1.05	-0.5	0	0	0	0	0	0
5/31/2024 7:47	52001	LING_T1	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
5/31/2024 7:48	52004	LING_T2	1	1	0	0.2	0.5	0.3	0.5	0.39	0	0	0	0	0	0
5/31/2024 7:48	52006	LING_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/31/2024 7:48	52002	LING_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
5/31/2024 7:50	15203	SFAR_T2	138	86	-52	0.24	0.19	-0.05	-1.32	-1.34	0	0	0	0	0	0
5/31/2024 7:50	15204	SFAR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/31/2024 7:50	46302	ROHR_T1	4	4	0	1.73	1.83	0.1	0.14	0.17	0	0	0	0	0	0
5/31/2024 7:51	66504	SMAN_T2	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
5/31/2024 7:51	67501	WEWI_T1	19	2	-17	0.16	0.55	0.39	0	0	0	0	0	0	0	0
5/31/2024 7:51	13905	SEID_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 7:51	13901	SEID_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
5/31/2024 7:51	67505	WEWI_T1	1	0	-1	0.2	0	-0.2	-0.34	-0.34	1	1	0	900	900	0
5/31/2024 7:52	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 7:52	66504	SMAN_T2	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
5/31/2024 7:52	15203	SFAR_T2	138	86	-52	0.24	0.19	-0.05	-1.32	-1.34	0	0	0	0	0	0
5/31/2024 7:52	15204	SFAR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/31/2024 7:53	15203	SFAR_T2	138	86	-52	0.24	0.19	-0.05	0	0	0	0	0	0	0	0
5/31/2024 7:53	15204	SFAR_T2	0	1	1	0	0.2	0.2	0.01	0	0	0	0	0	0	0
5/31/2024 7:53	67605	WARW_T1	18	19	1	0.58	0.63	0.05	-1.16	-1.11	0	0	0	0	0	0
5/31/2024 7:54	15203	SFAR_T2	138	86	-52	0.24	0.19	-0.05	-1.34	-1.3	0	0	0	0	0	0
5/31/2024 7:54	15204	SFAR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/31/2024 7:55	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 7:55	59101	WALK_T2	14	37	23	0.11	0.21	0.1	-0.41	-0.59	0	0	0	0	0	0
5/31/2024 7:55	45602	WOOL_T1	9	2	-7	0.13	0.2	0.07	1.26	1.16	0	0	0	0	0	0
5/31/2024 7:56	29401	BELT_T1	72	59	-13	0.23	0.18	-0.05	0	0	1	1	0	900	900	0
5/31/2024 7:56	29402	BELT_T1	2	2	0	4.4	4.4	0	0	0	0	0	0	0	0	0
5/31/2024 7:56	20403	ASHF_T2	0	1	1	0	0.2	0.2	1	1.09	0	0	0	0	0	0
5/31/2024 7:56	20401	ASHF_T2	4	4	0	0.45	0.48	0.03	0	0	0	0	0	0	0	0
5/31/2024 7:59	29402	BELT_T1	2	2	0	4.4	4.4	0	0	0	0	0	0	0	0	0
5/31/2024 7:59	64702	LITI_T2	0	0	0	0	0	0	-0.72	-0.61	0	0	0	0	0	0
5/31/2024 7:59	29401	BELT_T1	72	59	-13	0.23	0.18	-0.05	0	0	1	1	0	900	900	0
5/31/2024 8:00	64702	LITI_T2	0	0	0	0	0	0	-0.72	-0.61	0	0	0	0	0	0
5/31/2024 8:00	40902	JESH_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
5/31/2024 8:03	13303	ORVI_T1	0	1	1	0	0	0	-0.46	-0.43	0	0	0	0	0	0
5/31/2024 8:03	58401	MORO_T1	0	0	0	0	0	0	-2.14	-2.1	2	2	0	1200	1200	0
5/31/2024 8:08	67002	STHI_T2	0	0	0	0	0	0	1.3	1.32	0	0	0	0	0	0
5/31/2024 8:08	45901	AUBU_T1	0	0	0	0	0	0	1.67	1.66	0	0	0	0	0	0
5/31/2024 8:09	54601	SUMM_T2	13	13	0	0.4	1	0.6	0	0	0	0	0	0	0	0
5/31/2024 8:09	54603	SUMM_T2	0	2	2	0	0.2	0.2	-0.36	-0.3	1	1	0	900	900	0
5/31/2024 8:09	57403	SPAN_T1	25	115	90	0.25	0.29	0.04	-0.02	-0.02	0	0	0	0	0	0
5/31/2024 8:09	57401	SPAN_T1	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
5/31/2024 8:09	54602	SUMM_T2	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
5/31/2024 8:10	26603	BROO_T1	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
5/31/2024 8:11	26603	BROO_T1	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
5/31/2024 8:12	15702	TANN_T2	4	2	-2	0.1	0.35	0.25	-0.46	-0.46	0	0	0	0	0	0
5/31/2024 8:12	45501	DERR_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
5/31/2024 8:12	15703	TANN_T2	2	1	-1	2.45	4.9	2.45	0	0	0	0	0	0	0	0
5/31/2024 8:12	45502	DERR_T2	0	0	0	0	0	0	0.02	-0.15	0	0	0	0	0	0
5/31/2024 8:13	29401	BELT_T1	59	9	-50	0.18	0.14	-0.04	0	0	1	1	0	900	900	0
5/31/2024 8:13	29402	BELT_T1	2	1	-1	4.4	8.5	4.1	0	0	0	0	0	0	0	0
5/31/2024 8:17	62605	ENGL_T1	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
5/31/2024 8:19	64802	MONE_T2	0	6	6	0	0.18	0.18	0.23	0.24	0	0	0	0	0	0
5/31/2024 8:19	64801	MONE_T2	1	4	3	0.2	0.23	0.03	0	0	0	0	0	0	0	0
5/31/2024 8:20	65003	NEFF_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
5/31/2024 8:20	65004	NEFF_T2	0	1	1	0	0.1	0.1	-0.55	-0.55	0	0	0	0	0	0
5/31/2024 8:23	46301	ROHR_T1	0	5	5	0	0.26	0.26	0	0	0	0	0	0	0	0
5/31/2024 8:23	46302	ROHR_T1	4	4	0	1.83	2.6	0.77	0.16	0.14	0	0	0	0	0	0
5/31/2024 8:25	67703	WERN_T2	0	0	0	0	0	0	-0.3	-0.3	1	1	0	900	900	0
5/31/2024 8:25	61701	ELIZ_T1	1	2	1	5.8	3.1	-2.7	0	0	0	0	0	0	0	0
5/31/2024 8:25	61703	ELIZ_T1	0	5	5	0	0.24	0.24	-2.71	-2.29	2	2	0	2100	2100	0
5/31/2024 8:25	56802	BENV_T2	118	138	20	0.22	0.23	0.01	-5.84	-5.52	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/31/2024 8:26	61703	ELIZ_T1	0	5	5	0	0.24	0.24	-5.42	-4.58	4	4	0	4200	4200	0
5/31/2024 8:26	67402	WAKE_T2	0	0	0	0	0	0	1.08	1.07	0	0	0	0	0	0
5/31/2024 8:26	54502	ENOL_T2	1	5	4	1	0.26	-0.74	0	0	0	0	0	0	0	0
5/31/2024 8:26	61701	ELIZ_T1	1	2	1	5.8	3.1	-2.7	0	0	0	0	0	0	0	0
5/31/2024 8:26	54505	ENOL_T2	1	2	1	1.1	0.6	-0.5	-1.37	-1.35	1	1	0	600	600	0
5/31/2024 8:26	56802	BENV_T2	118	138	20	0.22	0.23	0.01	-5.84	-5.52	0	0	0	0	0	0
5/31/2024 8:26	54501	ENOL_T2	4	4	0	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
5/31/2024 8:26	54504	ENOL_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
5/31/2024 8:27	61702	ELIZ_T2	1	3	2	0.2	0.33	0.13	-2.19	-2.2	2	2	0	1500	1500	0
5/31/2024 8:27	56802	BENV_T2	118	138	20	0.22	0.23	0.01	-1.46	-1.38	0	0	0	0	0	0
5/31/2024 8:27	61701	ELIZ_T1	1	2	1	5.8	3.1	-2.7	0	0	0	0	0	0	0	0
5/31/2024 8:27	51604	DUKE_T2	0	2	2	0	0.2	0.2	-1.39	-1.41	1	1	0	900	900	0
5/31/2024 8:27	61704	ELIZ_T2	5	5	0	0.54	0.92	0.38	0	0	0	0	0	0	0	0
5/31/2024 8:27	61703	ELIZ_T1	0	5	5	0	0.24	0.24	-2.71	-2.29	2	2	0	2100	2100	0
5/31/2024 8:29	54505	ENOL_T2	1	2	1	1.1	0.6	-0.5	-1.37	-1.35	1	1	0	600	600	0
5/31/2024 8:29	29402	BELT_T1	1	2	1	8.5	4.6	-3.9	0	0	0	0	0	0	0	0
5/31/2024 8:29	54501	ENOL_T2	4	4	0	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
5/31/2024 8:29	54502	ENOL_T2	1	5	4	1	0.26	-0.74	0	0	0	0	0	0	0	0
5/31/2024 8:29	54504	ENOL_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
5/31/2024 8:29	29401	BELT_T1	5	23	18	0.12	0.15	0.03	0	0	0	0	0	0	0	0
5/31/2024 8:30	51604	DUKE_T2	0	2	2	0	0.2	0.2	-1.39	-1.41	1	1	0	900	900	0
5/31/2024 8:31	54505	ENOL_T2	1	2	1	1.1	0.55	-0.55	0	0	0	0	0	0	0	0
5/31/2024 8:31	54504	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/31/2024 8:31	54502	ENOL_T2	5	1	-4	0.26	0.8	0.54	0	0	0	0	0	0	0	0
5/31/2024 8:31	54501	ENOL_T2	4	3	-1	0.18	0.1	-0.08	0.13	0.13	0	0	0	0	0	0
5/31/2024 8:35	58401	MORO_T1	0	0	0	0	0	0	-1.01	-1.03	1	1	0	600	600	0
5/31/2024 8:36	54202	PENN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 8:36	54206	PENN_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
5/31/2024 8:36	67502	WEWI_T2	3	38	35	0.27	0.21	-0.06	-0.35	-0.34	0	0	0	0	0	0
5/31/2024 8:37	54202	PENN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 8:37	54206	PENN_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
5/31/2024 8:37	67502	WEWI_T2	3	38	35	0.27	0.21	-0.06	-0.35	-0.34	0	0	0	0	0	0
5/31/2024 8:38	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 8:39	20403	ASHF_T2	3	5	2	0.37	0.5	0.13	0.91	0.9	0	0	0	0	0	0
5/31/2024 8:39	20401	ASHF_T2	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/31/2024 8:39	67502	WEWI_T2	3	38	35	0.27	0.21	-0.06	-0.34	-0.31	0	0	0	0	0	0
5/31/2024 8:39	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 8:42	10805	CHHI_T2	4	2	-2	2.65	5.1	2.45	-0.25	-0.36	1	1	0	600	600	0
5/31/2024 8:44	29402	BELT_T1	1	2	1	8.4	4.7	-3.7	0	0	0	0	0	0	0	0
5/31/2024 8:44	29401	BELT_T1	6	29	23	0.15	0.15	0	0	0	3	3	0	2700	2700	0
5/31/2024 8:45	29402	BELT_T1	2	2	0	4.6	4.7	0.1	0	0	0	0	0	0	0	0
5/31/2024 8:45	29401	BELT_T1	23	27	4	0.15	0.16	0.01	0	0	0	0	0	0	0	0
5/31/2024 8:50	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 8:50	41902	REED_T1	0	0	0	0	0	0	1.16	1.05	0	0	0	0	0	0
5/31/2024 8:51	67502	WEWI_T2	4	38	34	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
5/31/2024 8:51	14404	SSLA_T1	3	2	-1	2.27	3.15	0.88	0	0	0	0	0	0	0	0
5/31/2024 8:51	67503	WEWI_T2	0	0	0	0	0	0	-0.62	-0.58	0	0	0	0	0	0
5/31/2024 8:51	14403	SSLA_T1	2	2	0	0.1	0.3	0.2	0.67	0.67	0	0	0	0	0	0
5/31/2024 8:53	41902	REED_T1	0	0	0	0	0	0	1.05	1.09	0	0	0	0	0	0
5/31/2024 8:53	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 8:54	67605	WARW_T1	15	23	8	0.47	0.6	0.13	-3.31	-3.34	0	0	0	0	0	0
5/31/2024 8:55	14403	SSLA_T1	2	2	0	0.1	0.3	0.2	0.67	0.7	0	0	0	0	0	0
5/31/2024 8:55	14404	SSLA_T1	3	2	-1	2.27	3.15	0.88	0	0	0	0	0	0	0	0
5/31/2024 8:57	62605	ENGL_T1	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
5/31/2024 8:57	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 8:58	46803	HEPB_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/31/2024 8:58	46801	HEPB_T2	2	2	0	0.75	0.75	0	0.62	0.63	0	0	0	0	0	0
5/31/2024 9:00	10901	COOP_T2	0	0	0	0	0	0	0	-0.03	1	1	0	1200	1200	0
5/31/2024 9:00	10903	COOP_T2	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
5/31/2024 9:00	29401	BELT_T1	25	11	-14	0.16	0.25	0.09	0	0	0	0	0	0	0	0
5/31/2024 9:00	29402	BELT_T1	2	2	0	4.7	4.65	-0.05	0	0	0	0	0	0	0	0
5/31/2024 9:00	25402	LAHA_T2	1	1	0	0.2	0.4	0.2	-0.62	-0.56	0	0	0	0	0	0
5/31/2024 9:01	55001	NEWP_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/31/2024 9:01	55002	NEWP_T1	14	39	25	0.72	0.59	-0.13	-0.23	-0.2	0	0	0	0	0	0
5/31/2024 9:02	25402	LAHA_T2	1	1	0	0.2	0.4	0.2	-0.62	-0.56	0	0	0	0	0	0
5/31/2024 9:02	29401	BELT_T1	25	11	-14	0.16	0.25	0.09	0	0	0	0	0	0	0	0
5/31/2024 9:02	29402	BELT_T1	2	2	0	4.7	4.65	-0.05	0	0	0	0	0	0	0	0
5/31/2024 9:03	55001	NEWP_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/31/2024 9:03	46803	HEPB_T2	1	1	0	0.1	1	0.9	0.5	0.48	0	0	0	0	0	0
5/31/2024 9:03	46801	HEPB_T2	2	2	0	0.65	0.75	0.1	0	0	0	0	0	0	0	0
5/31/2024 9:03	55002	NEWP_T1	14	39	25	0.72	0.59	-0.13	-0.23	-0.2	0	0	0	0	0	0
5/31/2024 9:04	17002	RIRO_T2	9	8	-1	0.52	0.6	0.08	0.66	0.67	0	0	0	0	0	0
5/31/2024 9:04	58401	MORO_T1	0	0	0	0	0	0	-1	-0.95	1	1	0	600	600	0
5/31/2024 9:05	55001	NEWP_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/31/2024 9:05	44601	SALE_T2	0	0	0	0	0	0	0.6	0.04	2	1	-1	900	600	-300
5/31/2024 9:05	55002	NEWP_T1	14	39	25	0.72	0.59	-0.13	-0.23	-0.2	0	0	0	0	0	0
5/31/2024 9:07	55001	NEWP_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/31/2024 9:07	55002	NEWP_T1	14	39	25	0.72	0.59	-0.13	-0.23	-0.2	0	0	0	0	0	0
5/31/2024 9:09	15204	SFAR_T2	3	1	-2	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
5/31/2024 9:09	15203	SFAR_T2	11	21	10	0.28	0.26	-0.02	-2.42	-2.44	0	0	0	0	0	0
5/31/2024 9:09	44601	SALE_T2	0	0	0	0	0	0	0.04	0.85	2	1	-1	900	600	-300
5/31/2024 9:09	45902	AUBU_T1	0	1	1	0	1.2	1.2	-0.59	-0.65	1	1	0	600	600	0
5/31/2024 9:10	14203	EALL_T1	0	0	0	0	0	0	1.15	1.15	0	0	0	0	0	0
5/31/2024 9:10	15203	SFAR_T2	11	21	10	0.28	0.26	-0.02	-1.21	-1.22	0	0	0	0	0	0
5/31/2024 9:10	15204	SFAR_T2	3	1	-2	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
5/31/2024 9:10	45902	AUBU_T1	0	1	1	0	1.2	1.2	-0.59	-0.65	1	1	0	600	600	0
5/31/2024 9:10	24801	VALM_T1	1	1	0	0.1	0.4	0.3	-0.42	-0.39	0	0	0	0	0	0
5/31/2024 9:11	45902	AUBU_T1	0	1	1	0	1.2	1.2	-0.59	-0.65	1	1	0	600	600	0
5/31/2024 9:13	46803	HEPB_T2	1	1	0	0.1	1	0.9	0.48	0.49	0	0	0	0	0	0
5/31/2024 9:13	62105	ELAN_T1	2	3	1	0.35	0.4	0.05	0.37	0.38	0	0	0	0	0	0
5/31/2024 9:13	46801	HEPB_T2	2	2	0	0.65	0.75	0.1	0.63	0.63	0	0	0	0	0	0
5/31/2024 9:14	26703	HEML_T1	0	0	0	0	0	0	-0.96	-0.97	1	1	0	600	600	0
5/31/2024 9:15	54502	ENOL_T2	1	2	1	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
5/31/2024 9:15	54501	ENOL_T2	1	5	4	0.1	0.14	0.04	0	0	0	0	0	0	0	0
5/31/2024 9:15	54505	ENOL_T2	1	1	0	0.9	1	0.1	-1.31	-1.31	1	1	0	600	600	0
5/31/2024 9:15	54504	ENOL_T2	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
5/31/2024 9:17	46803	HEPB_T2	1	1	0	0.6	1.3	0.7	0	0	0	0	0	0	0	0
5/31/2024 9:17	16902	MECK_T1	1	1	0	0.2	0.2	0	0.05	0.06	0	0	0	0	0	0
5/31/2024 9:17	16901	MECK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 9:17	46801	HEPB_T2	2	2	0	0.75	0.8	0.05	0.63	0.63	0	0	0	0	0	0
5/31/2024 9:19	60504	NMAN_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/31/2024 9:19	60501	NMAN_T2	3	3	0	5.6	5.6	0	0	0	0	0	0	0	0	0
5/31/2024 9:19	60502	NMAN_T2	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
5/31/2024 9:20	16902	MECK_T1	1	1	0	0.2	0.2	0	0.1	0.12	0	0	0	0	0	0
5/31/2024 9:20	16901	MECK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 9:21	67401	WAKE_T2	1	2	1	0.2	0.35	0.15	-0.79	-0.77	0	0	0	0	0	0
5/31/2024 9:21	67402	WAKE_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 9:22	13704	SCHN_T2	1	1	0	0.2	0.4	0.2	-0.28	-0.27	0	0	0	0	0	0
5/31/2024 9:23	23001	SAJO_T1	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
5/31/2024 9:23	23002	SAJO_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/31/2024 9:24	15704	TANN_T1	3	2	-1	0.13	0.3	0.17	-1.2	-1.04	0	0	0	0	0	0
5/31/2024 9:24	67402	WAKE_T2	0	2	2	0	0.1	0.1	0.44	0.45	1	1	0	600	600	0
5/31/2024 9:24	15701	TANN_T1	2	2	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
5/31/2024 9:24	67401	WAKE_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
5/31/2024 9:25	67401	WAKE_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
5/31/2024 9:25	67402	WAKE_T2	0	2	2	0	0.1	0.1	0.44	0.45	1	1	0	600	600	0
5/31/2024 9:27	15703	TANN_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
5/31/2024 9:27	15702	TANN_T2	2	3	1	0.25	0.27	0.02	-0.38	-0.41	0	0	0	0	0	0
5/31/2024 9:30	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 9:33	13503	MCMI_T2	3	5	2	0.5	0.52	0.02	-0.01	-0.01	0	0	0	0	0	0
5/31/2024 9:35	64101	REFR_T1	0	0	0	0	0	0	0.05	0.09	0	0	0	0	0	0
5/31/2024 9:36	64101	REFR_T1	0	0	0	0	0	0	0.14	0.27	0	0	0	0	0	0
5/31/2024 9:37	45902	AUBU_T1	1	1	0	1.2	1.4	0.2	-0.65	-0.64	1	1	0	600	600	0
5/31/2024 9:37	59102	WALK_T2	3	4	1	0.3	0.43	0.13	0.5	0.52	0	0	0	0	0	0
5/31/2024 9:37	64101	REFR_T1	0	0	0	0	0	0	0.05	0.09	0	0	0	0	0	0
5/31/2024 9:37	59101	WALK_T2	63	64	1	0.69	0.56	-0.13	-0.42	-0.33	0	0	0	0	0	0
5/31/2024 9:38	59101	WALK_T2	63	64	1	0.69	0.56	-0.13	-0.33	-0.4	0	0	0	0	0	0
5/31/2024 9:38	59102	WALK_T2	3	4	1	0.3	0.43	0.13	0	0	0	0	0	0	0	0
5/31/2024 9:38	64101	REFR_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
5/31/2024 9:39	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
5/31/2024 9:40	56802	BENV_T2	741	825	84	0.55	0.47	-0.08	-1.35	-1.33	0	0	0	0	0	0
5/31/2024 9:40	45902	AUBU_T1	1	1	0	1.2	1.4	0.2	-0.64	-0.57	1	1	0	600	600	0
5/31/2024 9:42	56802	BENV_T2	741	825	84	0.55	0.47	-0.08	-1.35	-1.33	0	0	0	0	0	0
5/31/2024 9:45	45702	LIND_T2	2	3	1	0.9	0.83	-0.07	-0.41	-0.43	0	0	0	0	0	0
5/31/2024 9:46	52402	GRPA_T2	11	14	3	0.4	0.47	0.07	0	0	0	0	0	0	0	0
5/31/2024 9:46	52403	GRPA_T2	2	2	0	0.15	0.25	0.1	0.16	0.17	0	0	0	0	0	0
5/31/2024 9:50	43201	MVIL_T2	1	1	0	0.5	0.8	0.3	-0.41	-0.37	0	0	0	0	0	0
5/31/2024 9:50	43202	MVIL_T2	2	3	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
5/31/2024 9:53	58706	ROSE_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/31/2024 9:53	58705	ROSE_T2	5	5	0	1.86	2.06	0.2	0	0	0	0	0	0	0	0
5/31/2024 9:53	58702	ROSE_T2	0	0	0	0	0	0	-1.58	-1.4	0	0	0	0	0	0
5/31/2024 9:54	45501	DERR_T2	1	2	1	0.1	0	-0.1	0.53	0.5	2	2	0	1800	1800	0
5/31/2024 9:55	58706	ROSE_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/31/2024 9:55	58705	ROSE_T2	5	5	0	1.86	2.06	0.2	0	0	0	0	0	0	0	0
5/31/2024 9:55	45501	DERR_T2	1	2	1	0.1	0	-0.1	0.53	0.5	2	2	0	1800	1800	0
5/31/2024 9:55	58702	ROSE_T2	0	0	0	0	0	0	-1.58	-1.4	0	0	0	0	0	0
5/31/2024 9:55	15702	TANN_T2	3	6	3	0.27	0.38	0.11	-0.4	-0.39	0	0	0	0	0	0
5/31/2024 9:55	15703	TANN_T2	1	1	0	5	5.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 9:59	54502	ENOL_T2	2	1	-1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
5/31/2024 9:59	54505	ENOL_T2	1	2	1	1	0.65	-0.35	0	0	0	0	0	0	0	0
5/31/2024 9:59	46803	HEPB_T2	1	3	2	1.3	0.7	-0.6	0	0	0	0	0	0	0	0
5/31/2024 9:59	54501	ENOL_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/31/2024 9:59	46801	HEPB_T2	2	2	0	0.8	1.05	0.25	0.64	0.64	0	0	0	0	0	0
5/31/2024 9:59	54504	ENOL_T2	1	1	0	1.3	1.2	-0.1	-1.15	-1.13	1	1	0	600	600	0
5/31/2024 9:59	13503	MCMI_T2	4	6	2	0.55	0.68	0.13	-0.01	-0.01	0	0	0	0	0	0
5/31/2024 10:00	60504	NMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/31/2024 10:00	67502	WEWI_T2	2	12	10	1.1	0.48	-0.62	-0.29	-0.2	0	0	0	0	0	0
5/31/2024 10:00	57006	WHHI_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
5/31/2024 10:00	14801	TREI_T2	1	2	1	0.8	0.15	-0.65	0	0	0	0	0	0	0	0
5/31/2024 10:00	47001	HUGH_T2	0	0	0	0	0	0	-0.24	-0.44	0	0	0	0	0	0
5/31/2024 10:00	14802	TREI_T2	0	1	1	0	0.1	0.1	0.48	0.49	0	0	0	0	0	0
5/31/2024 10:00	46801	HEPB_T2	2	6	4	0.9	0.6	-0.3	0.64	0.64	0	0	0	0	0	0
5/31/2024 10:00	60501	NMAN_T2	3	3	0	5	5.3	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/31/2024 10:00	58001	WCAR_T1	6	5	-1	0.98	1.08	0.1	0	0	0	0	0	0	0	0
5/31/2024 10:00	22904	HARW_T1	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
5/31/2024 10:00	54206	PENN_T2	2	0	-2	0.15	0	-0.15	0.3	0.12	0	0	0	0	0	0
5/31/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.01	-0.08	0	0	0	0	0	0
5/31/2024 10:00	46803	HEPB_T2	1	8	7	1.3	0.4	-0.9	0	0	0	0	0	0	0	0
5/31/2024 10:00	13303	ORVI_T1	3	0	-3	0.17	0	-0.17	-0.36	-0.23	0	0	0	0	0	0
5/31/2024 10:00	46002	BERW_T2	0	1	1	0	0.1	0.1	-0.62	-0.63	1	1	0	900	900	0
5/31/2024 10:00	57002	WHHI_T2	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
5/31/2024 10:00	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 10:00	13503	MCMI_T2	5	10	5	0.52	0.6	0.08	-0.02	-0.02	0	0	0	0	0	0
5/31/2024 10:00	13704	SCHN_T2	1	1	0	0.4	0.3	-0.1	-0.5	-0.52	0	0	0	0	0	0
5/31/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
5/31/2024 10:00	46004	BERW_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/31/2024 10:00	40505	CRES_T1	3	3	0	5.1	4.93	-0.17	0.58	0.55	0	0	0	0	0	0
5/31/2024 10:00	58003	WCAR_T1	7	9	2	0.59	0.34	-0.25	0.86	0.8	0	0	0	0	0	0
5/31/2024 10:02	60103	COCA_T2	0	0	0	0	0	0	-0.59	-0.52	2	2	0	2100	2100	0
5/31/2024 10:04	16902	MECK_T1	1	2	1	0.1	0.1	0	0.07	0.05	0	0	0	0	0	0
5/31/2024 10:04	16901	MECK_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
5/31/2024 10:05	57403	SPAN_T1	132	36	-96	0.25	0.28	0.03	0	0	0	0	0	0	0	0
5/31/2024 10:05	57401	SPAN_T1	3	6	3	1.73	0.52	-1.21	-1.04	-0.96	1	1	0	600	600	0
5/31/2024 10:06	44601	SALE_T2	0	2	2	0	0.3	0.3	0.76	0.22	2	1	-1	900	600	-300
5/31/2024 10:06	57403	SPAN_T1	132	36	-96	0.25	0.28	0.03	0.02	0.03	0	0	0	0	0	0
5/31/2024 10:06	46801	HEPB_T2	2	6	4	0.9	0.6	-0.3	0.64	0.64	0	0	0	0	0	0
5/31/2024 10:06	46803	HEPB_T2	1	8	7	1.3	0.4	-0.9	0	0	0	0	0	0	0	0
5/31/2024 10:06	57401	SPAN_T1	3	6	3	1.73	0.52	-1.21	-1.04	-0.96	1	1	0	600	600	0
5/31/2024 10:07	67605	WARW_T1	28	35	7	0.6	0.63	0.03	-3.15	-3.25	0	0	0	0	0	0
5/31/2024 10:07	67602	WARW_T2	0	0	0	0	0	0	0.1	0.23	1	1	0	1200	1200	0
5/31/2024 10:07	57401	SPAN_T1	3	6	3	1.73	0.52	-1.21	0	0	0	0	0	0	0	0
5/31/2024 10:07	57403	SPAN_T1	132	36	-96	0.25	0.28	0.03	0.02	0.03	0	0	0	0	0	0
5/31/2024 10:07	67603	WARW_T1	1	3	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
5/31/2024 10:08	14402	SSLA_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/31/2024 10:08	14403	SSLA_T1	4	4	0	0.4	0.58	0.18	0.77	0.74	0	0	0	0	0	0
5/31/2024 10:08	14401	SSLA_T1	2	1	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
5/31/2024 10:08	60801	BUCK_T1	1	3	2	0.1	0.37	0.27	-0.81	-0.88	0	2	2	0	1200	1200
5/31/2024 10:08	14404	SSLA_T1	3	2	-1	2.07	3.1	1.03	0	0	0	0	0	0	0	0
5/31/2024 10:08	59202	THOM_T1	29	18	-11	0.34	0.41	0.07	0	0	0	0	0	0	0	0
5/31/2024 10:08	59201	THOM_T1	2	2	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
5/31/2024 10:08	43301	WATS_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/31/2024 10:08	57401	SPAN_T1	3	6	3	1.73	0.52	-1.21	-1.92	-2	2	2	0	1200	1200	0
5/31/2024 10:08	59101	WALK_T2	63	34	-29	0.54	0.19	-0.35	-0.36	-0.38	0	0	0	0	0	0
5/31/2024 10:08	67603	WARW_T1	1	3	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
5/31/2024 10:08	57403	SPAN_T1	132	36	-96	0.25	0.28	0.03	0	0	0	0	0	0	0	0
5/31/2024 10:08	44601	SALE_T2	0	2	2	0	0.3	0.3	0.22	1.02	2	1	-1	900	600	-300
5/31/2024 10:08	59102	WALK_T2	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
5/31/2024 10:08	67605	WARW_T1	28	35	7	0.6	0.63	0.03	-1.08	-1.02	0	0	0	0	0	0
5/31/2024 10:08	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 10:09	40201	BEGA_T2	1	4	3	1	0.95	-0.05	0	0	0	0	0	0	0	0
5/31/2024 10:09	57403	SPAN_T1	132	36	-96	0.25	0.28	0.03	0.03	0.03	0	0	0	0	0	0
5/31/2024 10:09	57401	SPAN_T1	3	6	3	1.73	0.52	-1.21	-0.96	-1	1	1	0	600	600	0
5/31/2024 10:09	58003	WCAR_T1	7	9	2	0.59	0.34	-0.25	0.8	0.83	0	0	0	0	0	0
5/31/2024 10:09	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
5/31/2024 10:09	58001	WCAR_T1	6	5	-1	0.98	1.08	0.1	0	0	0	0	0	0	0	0
5/31/2024 10:09	43402	BENT_T1	104	105	1	0.92	0.84	-0.08	-0.67	-0.68	1	1	0	900	900	0
5/31/2024 10:09	45902	AUBU_T1	1	3	2	1.4	0.67	-0.73	-1.21	-1.23	2	2	0	1200	1200	0
5/31/2024 10:09	43301	WATS_T2	1	2	1	0.2	0.3	0.1	0	0	1	1	0	900	900	0
5/31/2024 10:09	59101	WALK_T2	63	34	-29	0.54	0.19	-0.35	0	0	0	0	0	0	0	0
5/31/2024 10:09	59102	WALK_T2	2	2	0	0.65	0.45	-0.2	0.52	0.53	0	0	0	0	0	0
5/31/2024 10:09	16302	ALPA_T2	0	0	0	0	0	0	0.93	0.81	0	0	0	0	0	0
5/31/2024 10:09	67602	WARW_T2	0	0	0	0	0	0	0.23	1.16	1	1	0	1200	300	-900
5/31/2024 10:09	26601	BROO_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
5/31/2024 10:09	15702	TANN_T2	5	6	1	0.3	0.4	0.1	-0.39	-0.35	0	0	0	0	0	0
5/31/2024 10:10	29401	BELT_T1	11	6	-5	0.28	0.23	-0.05	0	0	1	1	0	900	900	0
5/31/2024 10:10	45501	DERR_T2	2	1	-1	0.15	0.4	0.25	0.5	0.36	2	2	0	1800	1800	0
5/31/2024 10:10	67605	WARW_T1	28	35	7	0.6	0.63	0.03	-1.08	-1.02	0	0	0	0	0	0
5/31/2024 10:10	29402	BELT_T1	3	4	1	3.23	2.5	-0.73	0	0	0	0	0	0	0	0
5/31/2024 10:10	16302	ALPA_T2	0	0	0	0	0	0	1.86	1.61	0	0	0	0	0	0
5/31/2024 10:10	57401	SPAN_T1	3	6	3	1.73	0.52	-1.21	-0.96	-1	1	1	0	600	600	0
5/31/2024 10:10	14802	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 10:10	67603	WARW_T1	1	3	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
5/31/2024 10:10	14801	TREI_T2	1	2	1	0.8	0.15	-0.65	0.48	0.47	0	0	0	0	0	0
5/31/2024 10:10	14403	SSLA_T1	4	4	0	0.4	0.58	0.18	0.77	0.74	0	0	0	0	0	0
5/31/2024 10:10	14402	SSLA_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/31/2024 10:10	58003	WCAR_T1	7	9	2	0.59	0.34	-0.25	0.8	0.83	0	0	0	0	0	0
5/31/2024 10:10	59101	WALK_T2	63	34	-29	0.54	0.19	-0.35	-0.36	-0.38	0	0	0	0	0	0
5/31/2024 10:10	14404	SSLA_T1	3	2	-1	2.07	3.1	1.03	0	0	0	0	0	0	0	0
5/31/2024 10:10	57403	SPAN_T1	132	36	-96	0.25	0.28	0.03	0	0	0	0	0	0	0	0
5/31/2024 10:10	59102	WALK_T2	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
5/31/2024 10:10	60801	BUCK_T1	1	3	2	0.1	0.37	0.27	-0.4	-0.44	1	1	0	600	600	0
5/31/2024 10:10	58001	WCAR_T1	6	5	-1	0.98	1.08	0.1	0	0	0	0	0	0	0	0
5/31/2024 10:10	14401	SSLA_T1	2	1	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
5/31/2024 10:11	29401	BELT_T1	11	6	-5	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
5/31/2024 10:11	26603	BROO_T1	0	0	0	0	0	0	0.48	0.54	0	0	0	0	0	0
5/31/2024 10:11	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
5/31/2024 10:11	29402	BELT_T1	3	4	1	3.23	2.5	-0.73	0	0	0	0	0	0	0	0
5/31/2024 10:11	45501	DERR_T2	2	1	-1	0.15	0.4	0.25	0.5	0.36	2	2	0	1800	1800	0
5/31/2024 10:11	60801	BUCK_T1	1	3	2	0.1	0.37	0.27	-0.4	-0.44	1	1	0	600	600	0
5/31/2024 10:11	24801	VALM_T1	1	1	0	0.9	0.8	-0.1	-0.29	-0.29	0	0	0	0	0	0
5/31/2024 10:11	10805	CHHI_T2	2	3	1	5.25	5.35	0.1	-0.62	-0.74	2	2	0	1200	1200	0
5/31/2024 10:11	15702	TANN_T2	5	6	1	0.3	0.4	0.1	-0.78	-0.71	0	0	0	0	0	0
5/31/2024 10:12	16302	ALPA_T2	0	0	0	0	0	0	0.93	0.81	0	0	0	0	0	0
5/31/2024 10:12	45902	AUBU_T1	1	3	2	1.4	0.67	-0.73	1.21	1.23	2	2	0	1200	1200	0
5/31/2024 10:12	15701	TANN_T1	3	5	2	1.93	1.22	-0.71	0	0	0	0	0	0	0	0
5/31/2024 10:12	26603	BROO_T1	0	0	0	0	0	0	0.48	0.54	0	0	0	0	0	0
5/31/2024 10:12	23901	EFMO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 10:12	15704	TANN_T1	2	2	0	0.25	0.45	0.2	-1.06	-1.08	0	0	0	0	0	0
5/31/2024 10:12	10805	CHHI_T2	2	3	1	5.25	5.35	0.1	-0.31	-0.37	1	1	0	600	600	0
5/31/2024 10:13	40201	BEGA_T2	1	4	3	1	0.95	-0.05	0	0	0	0	0	0	0	0
5/31/2024 10:13	10805	CHHI_T2	2	3	1	5.25	5.35	0.1	-0.31	-0.37	1	1	0	600	600	0
5/31/2024 10:13	29401	BELT_T1	11	6	-5	0.28	0.23	-0.05	0	0	3	3	0	2700	2700	0
5/31/2024 10:13	29402	BELT_T1	3	4	1	3.23	2.5	-0.73	0	0	0	0	0	0	0	0
5/31/2024 10:14	52403	GRPA_T2	2	4	2	0.25	0.18	-0.07	0.6	0.57	0	0	0	0	0	0
5/31/2024 10:14	29402	BELT_T1	3	4	1	3.23	2.5	-0.73	0	0	0	0	0	0	0	0
5/31/2024 10:14	52402	GRPA_T2	14	12	-2	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
5/31/2024 10:14	62605	ENGL_T1	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
5/31/2024 10:14	45501	DERR_T2	2	1	-1	0.15	0.4	0.25	0.5	0.36	2	2	0	1800	1800	0
5/31/2024 10:14	29401	BELT_T1	11	6	-5	0.28	0.23	-0.05	0	0	1	1	0	900	900	0
5/31/2024 10:14	62607	ENGL_T1	1	1	0	0.3	0.5	0.2	-2.28	-2.16	0	0	0	0	0	0
5/31/2024 10:15	64702	LITI_T2	0	0	0	0	0	0	-0.57	-0.49	0	0	0	0	0	0
5/31/2024 10:16	52402	GRPA_T2	11	15	4	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
5/31/2024 10:16	52401	GRPA_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
5/31/2024 10:16	52403	GRPA_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
5/31/2024 10:17	52402	GRPA_T2	11	15	4	0.44	0.43	-0.01	-1.54	-1.54	0	0	0	0	0	0
5/31/2024 10:17	42903	MIDD_T2	2	3	1	0.55	0.63	0.08	0	0	0	0	0	0	0	0
5/31/2024 10:17	62607	ENGL_T1	1	3	2	0.5	0.27	-0.23	-0.76	-0.72	0	0	0	0	0	0
5/31/2024 10:17	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 10:17	42902	MIDD_T2	0	2	2	0	0.15	0.15	0.29	0.35	0	0	0	0	0	0
5/31/2024 10:17	62605	ENGL_T1	2	3	1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
5/31/2024 10:17	52403	GRPA_T2	0	4	4	0	0.2	0.2	0.2	0.19	0	0	0	0	0	0
5/31/2024 10:18	15601	NSTR_T2	8	7	-1	0.55	0.71	0.16	0	0	0	0	0	0	0	0
5/31/2024 10:18	15602	NSTR_T2	3	2	-1	0.37	0.4	0.03	0	0	0	0	0	0	0	0
5/31/2024 10:18	15603	NSTR_T2	3	6	3	0.57	0.38	-0.19	-0.62	-0.62	0	0	0	0	0	0
5/31/2024 10:18	64702	LITI_T2	0	0	0	0	0	0	-0.57	-0.49	0	0	0	0	0	0
5/31/2024 10:19	66504	SMAN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/31/2024 10:19	42903	MIDD_T2	2	3	1	0.55	0.63	0.08	0	0	0	0	0	0	0	0
5/31/2024 10:19	66502	SMAN_T2	1	2	1	0.2	0.55	0.35	0.34	0.42	0	0	0	0	0	0
5/31/2024 10:19	42902	MIDD_T2	0	2	2	0	0.15	0.15	0.29	0.35	0	0	0	0	0	0
5/31/2024 10:20	17804	GILB_T2	10	10	0	0.46	0.74	0.28	-0.57	-0.57	0	0	0	0	0	0
5/31/2024 10:20	17803	GILB_T2	3	0	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
5/31/2024 10:20	17805	GILB_T2	3	4	1	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
5/31/2024 10:21	41902	REED_T1	0	0	0	0	0	0	1.04	1.12	0	0	0	0	0	0
5/31/2024 10:21	17802	GILB_T1	4	5	1	0.95	0.74	-0.21	0.11	0.14	0	0	0	0	0	0
5/31/2024 10:22	14802	TREI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
5/31/2024 10:22	43202	MVIL_T2	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
5/31/2024 10:22	67503	WEWI_T2	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
5/31/2024 10:22	66504	SMAN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/31/2024 10:22	67502	WEWI_T2	6	14	8	0.58	0.47	-0.11	0	0	0	0	0	0	0	0
5/31/2024 10:22	67605	WARW_T1	35	22	-13	0.63	0.69	0.06	-1.08	-1.02	0	0	0	0	0	0
5/31/2024 10:22	67603	WARW_T1	3	3	0	0.3	0.47	0.17	0.05	0.01	0	0	0	0	0	0
5/31/2024 10:22	14801	TREI_T2	1	3	2	0.2	0.33	0.13	0.48	0.47	0	0	0	0	0	0
5/31/2024 10:22	66502	SMAN_T2	1	2	1	0.2	0.55	0.35	0.34	0.42	0	0	0	0	0	0
5/31/2024 10:22	43201	MVIL_T2	1	1	0	0.8	0.8	0	-0.38	-0.38	0	0	0	0	0	0
5/31/2024 10:23	13905	SEID_T1	0	1	1	0	0.1	0.1	0.39	0.45	0	0	0	0	0	0
5/31/2024 10:23	67603	WARW_T1	3	3	0	0.3	0.47	0.17	0	0	0	0	0	0	0	0
5/31/2024 10:23	41902	REED_T1	0	0	0	0	0	0	1.12	1.1	0	0	0	0	0	0
5/31/2024 10:23	67605	WARW_T1	35	22	-13	0.63	0.69	0.06	-1.02	-1.01	0	0	0	0	0	0
5/31/2024 10:23	67605	WARW_T1	35	22	-13	0.63	0.69	0.06	-1.02	-1.01	0	0	0	0	0	0
5/31/2024 10:23	67605	WARW_T1	35	22	-13	0.63	0.69	0.06	-1.02	-1.01	0	0	0	0	0	0
5/31/2024 10:23	67605	WARW_T1	35	22	-13	0.63	0.69	0.06	-1.02	-1.01	0	0	0	0	0	0
5/31/2024 10:23	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 10:23	45902	AUBU_T1	1	3	2	1.5	0.7	-0.8	-0.62	-0.51	1	1	0	600	600	0
5/31/2024 10:23	13902	SEID_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
5/31/2024 10:23	20403	ASHF_T2	9	8	-1	0.53	0.54	0.01	1.92	1.9	0	0	0	0	0	0
5/31/2024 10:24	67502	WEWI_T2	6	14	8	0.58	0.47	-0.11	0	0	0	0	0	0	0	0
5/31/2024 10:24	58001	WCAR_T1	5	6	1	1.08	0.8	-0.28	0.82	0.81	0	0	0	0	0	0
5/31/2024 10:24	67605	WARW_T1	35	22	-13	0.63	0.69	0.06	0	0	0	0	0	0	0	0
5/31/2024 10:24	24204	PROV_T3	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
5/31/2024 10:24	67603	WARW_T1	3	3	0	0.3	0.47	0.17	0.01	0.03	0	0	0	0	0	0
5/31/2024 10:24	58003	WCAR_T1	9	4	-5	0.34	0.48	0.14	0	0	0	0	0	0	0	0
5/31/2024 10:24	67503	WEWI_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
5/31/2024 10:24	24201	PROV_T3	1	1	0	7	7.4	0.4	0	0	0	0	0	0	0	0
5/31/2024 10:25	67502	WEWI_T2	6	14	8	0.58	0.47	-0.11	0	0	0	0	0	0	0	0
5/31/2024 10:25	67503	WEWI_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
5/31/2024 10:27	20401	ASHF_T2	0	1	1	0	0.1	0.1	-0.3	-0.22	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/31/2024 10:27	43402	BENT_T1	103	105	2	0.83	0.83	0	-0.68	-0.68	1	1	0	900	900	0
5/31/2024 10:27	20403	ASHF_T2	9	8	-1	0.53	0.54	0.01	0.96	0.95	0	0	0	0	0	0
5/31/2024 10:28	53901	HALI_T2	3	2	-1	0.33	0.5	0.17	0	0	0	0	0	0	0	0
5/31/2024 10:28	43402	BENT_T1	103	105	2	0.83	0.83	0	-0.68	-0.68	1	1	0	900	900	0
5/31/2024 10:28	53902	HALI_T2	3	3	0	2.33	2.47	0.14	0	0	0	0	0	0	0	0
5/31/2024 10:28	53903	HALI_T2	6	9	3	0.82	0.72	-0.1	-0.11	-0.11	0	0	0	0	0	0
5/31/2024 10:28	10801	CHHI_T1	4	3	-1	0.5	0.6	0.1	-0.94	-0.9	2	2	0	1800	1800	0
5/31/2024 10:29	53903	HALI_T2	6	9	3	0.82	0.72	-0.1	0	0	0	0	0	0	0	0
5/31/2024 10:29	53901	HALI_T2	3	2	-1	0.33	0.5	0.17	0	0	0	0	0	0	0	0
5/31/2024 10:29	53902	HALI_T2	3	3	0	2.33	2.47	0.14	-0.16	-0.16	0	0	0	0	0	0
5/31/2024 10:30	28403	HART_T2	1	2	1	0.1	0.1	0	-0.84	-0.8	1	1	0	900	900	0
5/31/2024 10:31	42903	MIDD_T2	3	3	0	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
5/31/2024 10:31	42902	MIDD_T2	1	6	5	0.2	0.24	0.04	0.35	0.28	0	0	0	0	0	0
5/31/2024 10:32	64702	LITI_T2	0	0	0	0	0	0	-0.49	-0.59	0	0	0	0	0	0
5/31/2024 10:33	44703	MUNC_T2	2	2	0	0.6	0.5	-0.1	0.88	0.91	0	0	0	0	0	0
5/31/2024 10:33	15603	NSTR_T2	3	8	5	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
5/31/2024 10:33	44701	MUNC_T2	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
5/31/2024 10:33	15601	NSTR_T2	6	9	3	0.77	0.57	-0.2	0	0	0	0	0	0	0	0
5/31/2024 10:33	15602	NSTR_T2	2	3	1	0.35	0.33	-0.02	0.06	0.07	0	0	0	0	0	0
5/31/2024 10:35	64101	REFR_T1	0	2	2	0	0.55	0.55	0.11	-0.24	0	0	0	0	0	0
5/31/2024 10:36	14401	SSLA_T1	1	3	2	0.3	0.63	0.33	0	0	0	0	0	0	0	0
5/31/2024 10:36	64101	REFR_T1	0	2	2	0	0.55	0.55	0.08	-0.16	0	0	0	0	0	0
5/31/2024 10:36	64802	MONE_T2	6	10	4	0.33	0.36	0.03	0.28	0.28	0	0	0	0	0	0
5/31/2024 10:36	66701	STRA_T1	2	2	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
5/31/2024 10:36	14402	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 10:36	66703	STRA_T1	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
5/31/2024 10:36	14404	SSLA_T1	2	3	1	2.95	1.97	-0.98	0.05	0.06	0	0	0	0	0	0
5/31/2024 10:36	14403	SSLA_T1	4	4	0	0.58	0.83	0.25	0.74	0.75	0	0	0	0	0	0
5/31/2024 10:36	64801	MONE_T2	3	5	2	0.2	0.32	0.12	0	0	0	0	0	0	0	0
5/31/2024 10:37	41002	LAUR_T2	56	56	0	0.56	0.58	0.02	0.06	0.07	0	0	0	0	0	0
5/31/2024 10:37	41001	LAUR_T2	79	79	0	0.64	0.65	0.01	0	0	0	0	0	0	0	0
5/31/2024 10:38	59101	WALK_T2	24	53	29	0.15	0.39	0.24	-0.33	-0.49	0	0	0	0	0	0
5/31/2024 10:38	59102	WALK_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
5/31/2024 10:38	14403	SSLA_T1	4	4	0	0.58	0.83	0.25	0	0	0	0	0	0	0	0
5/31/2024 10:38	14402	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 10:38	14801	TREI_T2	2	3	1	0.15	0.37	0.22	0	0	0	0	0	0	0	0
5/31/2024 10:38	14401	SSLA_T1	1	3	2	0.3	0.63	0.33	0	0	0	0	0	0	0	0
5/31/2024 10:38	14802	TREI_T2	1	1	0	0.1	0.3	0.2	0.49	0.5	0	0	0	0	0	0
5/31/2024 10:38	64101	REFR_T1	0	2	2	0	0.55	0.55	-0.32	-0.4	0	0	0	0	0	0
5/31/2024 10:38	13704	SCHN_T2	1	1	0	0.3	0.4	0.1	-0.25	-0.23	0	0	0	0	0	0
5/31/2024 10:38	14404	SSLA_T1	2	3	1	2.95	1.97	-0.98	0.06	0.07	0	0	0	0	0	0
5/31/2024 10:39	67201	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 10:39	67203	TEHI_T1	1	2	1	0.5	0.5	0	2.59	2.58	3	3	0	2100	2100	0
5/31/2024 10:39	64101	REFR_T1	0	2	2	0	0.55	0.55	-0.08	-0.1	0	0	0	0	0	0
5/31/2024 10:40	40201	BEGA_T2	4	4	0	0.95	0.98	0.03	0	0	0	0	0	0	0	0
5/31/2024 10:40	45902	AUBU_T1	3	3	0	0.67	0.8	0.13	0	0	0	0	0	0	0	0
5/31/2024 10:40	45901	AUBU_T1	0	0	0	0	0	0	1.75	1.75	0	0	0	0	0	0
5/31/2024 10:41	24102	EHAZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/31/2024 10:41	59101	WALK_T2	24	53	29	0.15	0.39	0.24	-0.33	-0.49	0	0	0	0	0	0
5/31/2024 10:41	59102	WALK_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
5/31/2024 10:41	24104	EHAZ_T1	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/31/2024 10:41	24103	EHAZ_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
5/31/2024 10:41	24105	EHAZ_T1	4	4	0	6.38	6.08	-0.3	0	0	0	0	0	0	0	0
5/31/2024 10:41	24101	EHAZ_T1	1	6	5	0.5	0.5	0	0	0	0	0	0	0	0	0
5/31/2024 10:42	67503	WEWI_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
5/31/2024 10:42	67502	WEWI_T2	12	14	2	0.48	0.52	0.04	-0.19	-0.2	0	0	0	0	0	0
5/31/2024 10:43	62602	ENGL_T1	0	1	1	0	0.1	0.1	0.07	0.06	0	0	0	0	0	0
5/31/2024 10:43	10203	ALLE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/31/2024 10:43	10102	ALLE_T2	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 10:43	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 10:43	40201	BEGA_T2	4	4	0	0.95	0.98	0.03	0	0	0	0	0	0	0	0
5/31/2024 10:43	62605	ENGL_T1	2	3	1	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
5/31/2024 10:43	61803	EELI_T2	0	0	0	0	0	0	0.98	1.01	0	0	0	0	0	0
5/31/2024 10:43	62607	ENGL_T1	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
5/31/2024 10:44	14204	EALL_T2	4	4	0	0.58	0.5	-0.08	-0.04	-0.17	0	0	0	0	0	0
5/31/2024 10:44	14202	EALL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 10:44	14203	EALL_T1	1	6	5	0.2	0.63	0.43	-0.02	-0.03	1	1	0	1200	1200	0
5/31/2024 10:44	51601	DUKE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 10:44	51603	DUKE_T1	0	0	0	0	0	0	-0.49	-0.44	0	0	0	0	0	0
5/31/2024 10:45	49804	UNIV_T1	3	3	0	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
5/31/2024 10:45	22601	KIMB_T1	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/31/2024 10:45	28403	HART_T2	1	1	0	0.1	0.1	0	-0.8	-0.82	1	1	0	900	900	0
5/31/2024 10:45	44505	HAMI_T2	1	2	1	0.1	0.35	0.25	0.7	0.71	0	0	0	0	0	0
5/31/2024 10:45	49803	UNIV_T1	2	2	0	0.3	0.35	0.05	-1.11	-0.99	0	0	0	0	0	0
5/31/2024 10:45	42102	FRAI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 10:45	44502	HAMI_T2	3	4	1	1.03	0.9	-0.13	0	0	0	0	0	0	0	0
5/31/2024 10:45	22602	KIMB_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
5/31/2024 10:46	62605	ENGL_T1	3	3	0	0.23	0.25	0.02	0	0	0	0	0	0	0	0
5/31/2024 10:46	62602	ENGL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/31/2024 10:46	62607	ENGL_T1	3	3	0	0.27	0.45	0.18	0	0	0	0	0	0	0	0
5/31/2024 10:46	62601	ENGL_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
5/31/2024 10:47	44505	HAMI_T2	1	2	1	0.1	0.35	0.25	0.7	0.71	0	0	0	0	0	0
5/31/2024 10:47	42903	MIDD_T2	3	2	-1	0.5	0.55	0.05	1	1.14	0	0	0	0	0	0
5/31/2024 10:47	42902	MIDD_T2	2	5	3	0.15	0.24	0.09	0	0	0	0	0	0	0	0
5/31/2024 10:47	44502	HAMI_T2	3	4	1	1.03	0.9	-0.13	0	0	0	0	0	0	0	0
5/31/2024 10:48	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 10:48	44203	POIN_T2	2	2	0	0.6	0.2	-0.4	0.69	0.64	1	1	0	900	900	0
5/31/2024 10:50	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 10:50	25502	MADI_T1	1	3	2	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
5/31/2024 10:50	44203	POIN_T2	2	2	0	0.6	0.2	-0.4	0.69	0.64	1	1	0	900	900	0
5/31/2024 10:50	25503	MADI_T1	51	87	36	0.18	0.24	0.06	-0.88	-0.89	0	0	0	0	0	0
5/31/2024 10:50	25501	MADI_T1	2	2	0	0.45	1.2	0.75	0	0	0	0	0	0	0	0
5/31/2024 10:51	44202	POIN_T2	0	1	1	0	0	0	-0.51	-0.55	1	1	0	1200	1200	0
5/31/2024 10:51	44203	POIN_T2	2	2	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
5/31/2024 10:53	15204	SFAR_T2	1	3	2	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
5/31/2024 10:53	15203	SFAR_T2	7	9	2	0.59	0.54	-0.05	-1.1	-1.05	0	0	0	0	0	0
5/31/2024 10:54	15204	SFAR_T2	1	3	2	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
5/31/2024 10:54	15203	SFAR_T2	7	9	2	0.59	0.54	-0.05	-2.2	-2.1	0	0	0	0	0	0
5/31/2024 10:55	46002	BERW_T2	0	0	0	0	0	0	-0.6	-0.67	1	1	0	900	900	0
5/31/2024 10:55	44301	BEAV_T2	1	5	4	0.2	0.46	0.26	0.81	0.95	1	1	0	600	600	0
5/31/2024 10:55	46004	BERW_T2	2	3	1	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/31/2024 10:56	57003	WHHI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/31/2024 10:56	57004	WHHI_T2	0	0	0	0	0	0	-0.48	-0.45	0	0	0	0	0	0
5/31/2024 10:56	57006	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/31/2024 10:56	46004	BERW_T2	2	3	1	0.25	0.35	0.1	-0.52	-0.51	0	0	0	0	0	0
5/31/2024 10:57	10801	CHHI_T1	3	2	-1	0.6	1.05	0.45	-0.43	-0.43	1	1	0	900	900	0
5/31/2024 10:57	41801	GOCI_T2	102	33	-69	0.32	0.42	0.1	0	0	0	0	0	0	0	0
5/31/2024 10:57	41802	GOCI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 11:00	64204	KINZ_T1	2	2	0	0.65	0.25	-0.4	0	0	0	0	0	0	0	0
5/31/2024 11:00	26704	HEML_T2	0	2	2	0	0.15	0.15	-0.81	-0.74	1	1	0	1200	1200	0
5/31/2024 11:00	52403	GRPA_T2	2	5	3	0.15	0.18	0.03	0.19	0.22	0	0	0	0	0	0
5/31/2024 11:00	41801	GOCI_T2	17	33	16	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
5/31/2024 11:00	52402	GRPA_T2	14	20	6	0.51	0.5	-0.01	0	0	0	0	0	0	0	0
5/31/2024 11:00	64201	KINZ_T1	0	0	0	0	0	0	0.22	0.21	3	3	0	1500	1500	0
5/31/2024 11:01	64702	LITI_T2	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
5/31/2024 11:01	41801	GOCI_T2	17	33	16	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
5/31/2024 11:02	22901	HARW_T1	0	1	1	0	0.3	0.3	-0.3	-0.28	1	1	0	1200	1200	0
5/31/2024 11:02	41801	GOCI_T2	17	33	16	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
5/31/2024 11:02	64304	LINC_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/31/2024 11:02	64302	LINC_T2	0	0	0	0	0	0	1.15	1.27	0	0	0	0	0	0
5/31/2024 11:03	12601	MACA_T1	2	2	0	1.4	1.8	0.4	0	0	0	0	0	0	0	0
5/31/2024 11:03	12604	MACA_T1	2	2	0	0.4	0.95	0.55	0	0	0	0	0	0	0	0
5/31/2024 11:03	64702	LITI_T2	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
5/31/2024 11:03	12605	MACA_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/31/2024 11:03	12602	MACA_T1	2	3	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/31/2024 11:03	12606	MACA_T1	0	0	0	0	0	0	0.87	0.9	0	0	0	0	0	0
5/31/2024 11:04	12604	MACA_T1	2	2	0	0.4	0.95	0.55	0	0	0	0	0	0	0	0
5/31/2024 11:04	12605	MACA_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/31/2024 11:04	12606	MACA_T1	0	0	0	0	0	0	0.87	0.9	0	0	0	0	0	0
5/31/2024 11:04	40101	HUNT_T2	1	0	-1	0.4	0	-0.4	-0.62	-0.48	0	0	0	0	0	0
5/31/2024 11:04	65503	MOJO_T2	2	2	0	0.35	1	0.65	-1.64	-1.62	2	2	0	1800	1800	0
5/31/2024 11:04	12601	MACA_T1	2	2	0	1.4	1.8	0.4	0	0	0	0	0	0	0	0
5/31/2024 11:04	13302	ORVI_T2	1	1	0	0.1	0.2	0.1	1.58	1.49	0	0	0	0	0	0
5/31/2024 11:04	12602	MACA_T1	2	3	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/31/2024 11:05	13902	SEID_T1	1	2	1	1.3	1.5	0.2	0	0	0	0	0	0	0	0
5/31/2024 11:05	64101	REFR_T1	2	3	1	0.55	0.6	0.05	-0.1	-0.09	0	0	0	0	0	0
5/31/2024 11:05	13901	SEID_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
5/31/2024 11:05	13905	SEID_T1	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
5/31/2024 11:06	40101	HUNT_T2	1	0	-1	0.4	0	-0.4	-0.31	-0.24	0	0	0	0	0	0
5/31/2024 11:07	17802	GILB_T1	5	6	1	0.88	0.8	-0.08	0.17	0.17	0	0	0	0	0	0
5/31/2024 11:09	60801	BUCK_T1	4	4	0	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
5/31/2024 11:09	60803	BUCK_T1	4	0	-4	0.1	0	-0.1	-0.49	-0.48	1	1	0	600	600	0
5/31/2024 11:09	67503	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 11:09	67502	WEWI_T2	13	11	-2	0.52	0.59	0.07	-0.15	-0.16	0	0	0	0	0	0
5/31/2024 11:10	67503	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 11:10	67502	WEWI_T2	13	11	-2	0.52	0.59	0.07	-0.15	-0.16	0	0	0	0	0	0
5/31/2024 11:10	60803	BUCK_T1	4	0	-4	0.1	0	-0.1	-0.49	-0.48	1	1	0	600	600	0
5/31/2024 11:10	60801	BUCK_T1	4	4	0	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
5/31/2024 11:10	60101	COCA_T1	1	2	1	0.6	0.6	0	0.39	0.35	0	0	0	0	0	0
5/31/2024 11:11	60803	BUCK_T1	4	0	-4	0.1	0	-0.1	-0.49	-0.48	1	1	0	600	600	0
5/31/2024 11:11	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 11:11	10102	ALLE_T2	1	1	0	7.3	7.1	-0.2	0	0	0	0	0	0	0	0
5/31/2024 11:11	60801	BUCK_T1	4	4	0	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
5/31/2024 11:12	67503	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 11:12	67502	WEWI_T2	13	11	-2	0.52	0.59	0.07	-0.15	-0.16	0	0	0	0	0	0
5/31/2024 11:13	60801	BUCK_T1	4	4	0	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
5/31/2024 11:13	16103	BING_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
5/31/2024 11:13	16101	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/31/2024 11:13	60803	BUCK_T1	4	0	-4	0.1	0	-0.1	-0.49	-0.48	1	1	0	600	600	0
5/31/2024 11:13	16102	BING_T2	1	5	4	0.2	0.42	0.22	-1.05	-1.04	1	1	0	1200	1200	0
5/31/2024 11:14	52402	GRPA_T2	14	20	6	0.51	0.5	-0.01	0	0	0	0	0	0	0	0
5/31/2024 11:14	60803	BUCK_T1	4	0	-4	0.1	0	-0.1	-0.49	-0.48	1	1	0	600	600	0
5/31/2024 11:14	52403	GRPA_T2	2	5	3	0.15	0.18	0.03	0.22	0.22	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/31/2024 11:14	60801	BUCK_T1	4	4	0	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
5/31/2024 11:14	45801	HEGI_T1	0	0	0	0	0	0	-0.05	-0.01	1	1	0	900	900	0
5/31/2024 11:14	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 11:15	44505	HAMI_T2	2	3	1	0.35	0.27	-0.08	0	0	0	0	0	0	0	0
5/31/2024 11:15	45802	HEGI_T2	15	33	18	0.48	0.67	0.19	1.71	1.61	2	2	0	600	600	0
5/31/2024 11:15	44504	HAMI_T2	0	1	1	0	0.2	0.2	-1.07	-1.04	0	0	0	0	0	0
5/31/2024 11:15	44502	HAMI_T2	4	3	-1	0.88	1.07	0.19	0	0	0	0	0	0	0	0
5/31/2024 11:16	63306	GREE_T1	3	1	-2	0.23	0.3	0.07	-1.98	-1.94	1	1	0	900	900	0
5/31/2024 11:18	59301	MCAL_T1	8	8	0	0.49	0.55	0.06	-1.18	-1.2	0	0	0	0	0	0
5/31/2024 11:19	52402	GRPA_T2	17	23	6	0.55	0.48	-0.07	0	0	0	0	0	0	0	0
5/31/2024 11:19	52403	GRPA_T2	3	3	0	0.17	0.23	0.06	0.22	0.22	0	0	0	0	0	0
5/31/2024 11:20	16702	MACK_T1	0	1	1	0	0.7	0.7	-1.06	-1.07	0	0	0	0	0	0
5/31/2024 11:21	40101	HUNT_T2	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
5/31/2024 11:21	13606	RICH_T2	1	1	0	7.5	7.5	0	1.08	1.2	0	0	0	0	0	0
5/31/2024 11:22	66504	SMAN_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
5/31/2024 11:22	67702	WERN_T2	2	1	-1	0.75	1.1	0.35	0	0	0	0	0	0	0	0
5/31/2024 11:22	66501	SMAN_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
5/31/2024 11:22	67703	WERN_T2	2	1	-1	4.45	0.3	-4.15	-0.18	-0.2	1	1	0	900	900	0
5/31/2024 11:22	64101	REFR_T1	2	3	1	0.5	0.8	0.3	-0.09	-0.08	0	0	0	0	0	0
5/31/2024 11:22	66502	SMAN_T2	2	2	0	0.95	0.7	-0.25	0	0	0	0	0	0	0	0
5/31/2024 11:23	67502	WEWI_T2	9	10	1	0.62	0.64	0.02	-0.33	-0.35	0	0	0	0	0	0
5/31/2024 11:23	56801	BENV_T1	20	21	1	0.82	0.89	0.07	-0.26	-0.26	1	1	0	600	600	0
5/31/2024 11:23	67503	WEWI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/31/2024 11:23	66701	STRA_T1	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
5/31/2024 11:23	66703	STRA_T1	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
5/31/2024 11:23	67703	WERN_T2	2	1	-1	4.45	0.3	-4.15	-0.2	-0.2	1	1	0	900	900	0
5/31/2024 11:23	67702	WERN_T2	2	1	-1	0.75	1.1	0.35	0	0	0	0	0	0	0	0
5/31/2024 11:23	56803	BENV_T1	5	8	3	0.84	0.64	-0.2	0	0	0	0	0	0	0	0
5/31/2024 11:24	67501	WEWI_T1	4	4	0	1.03	0.95	-0.08	0	0	0	0	0	0	0	0
5/31/2024 11:24	45402	WBLO_T2	2	2	0	0.65	0.8	0.15	-1.28	-1.26	0	0	0	0	0	0
5/31/2024 11:24	67503	WEWI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/31/2024 11:24	67505	WEWI_T1	1	1	0	0.4	0.3	-0.1	-0.07	-0.07	1	1	0	900	900	0
5/31/2024 11:24	67502	WEWI_T2	9	10	1	0.62	0.64	0.02	-0.16	-0.18	0	0	0	0	0	0
5/31/2024 11:24	67703	WERN_T2	2	1	-1	4.45	0.3	-4.15	-0.4	-0.4	2	2	0	1800	1800	0
5/31/2024 11:24	56802	BENV_T2	20	23	3	0.69	0.6	-0.09	-0.56	-0.6	0	0	0	0	0	0
5/31/2024 11:24	67702	WERN_T2	2	1	-1	0.75	1.1	0.35	0	0	0	0	0	0	0	0
5/31/2024 11:25	10801	CHHI_T1	2	8	6	0.25	0.75	0.5	-0.45	-1.06	1	2	1	900	1500	600
5/31/2024 11:25	56801	BENV_T1	20	21	1	0.82	0.89	0.07	-0.26	-0.26	1	1	0	600	600	0
5/31/2024 11:25	67503	WEWI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/31/2024 11:25	67702	WERN_T2	2	1	-1	0.75	1.1	0.35	-0.01	-0.01	0	0	0	0	0	0
5/31/2024 11:25	51002	NHAR_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
5/31/2024 11:25	51004	NHAR_T1	13	13	0	0.78	0.72	-0.06	-0.33	-0.39	0	0	0	0	0	0
5/31/2024 11:25	67703	WERN_T2	2	1	-1	4.45	0.3	-4.15	-0.2	-0.2	1	1	0	900	900	0
5/31/2024 11:25	67502	WEWI_T2	9	10	1	0.62	0.64	0.02	-0.16	-0.18	0	0	0	0	0	0
5/31/2024 11:25	27504	WEIS_T1	0	0	0	0	0	0	-0.8	-0.77	0	0	0	0	0	0
5/31/2024 11:25	56802	BENV_T2	20	23	3	0.69	0.6	-0.09	-1.12	-1.2	0	0	0	0	0	0
5/31/2024 11:25	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 11:25	58001	WCAR_T1	5	6	1	0.74	0.57	-0.17	0	0	0	0	0	0	0	0
5/31/2024 11:25	56803	BENV_T1	5	8	3	0.84	0.64	-0.2	0	0	0	0	0	0	0	0
5/31/2024 11:25	58003	WCAR_T1	3	4	1	0.63	0.55	-0.08	0.83	0.82	0	0	0	0	0	0
5/31/2024 11:25	10102	ALLE_T2	1	1	0	7.3	7.1	-0.2	0	0	0	0	0	0	0	0
5/31/2024 11:26	67501	WEWI_T1	4	4	0	1.03	0.95	-0.08	0	0	0	0	0	0	0	0
5/31/2024 11:26	10102	ALLE_T2	1	1	0	7.3	7.1	-0.2	0	0	0	0	0	0	0	0
5/31/2024 11:26	67703	WERN_T2	2	1	-1	4.45	0.3	-4.15	0	0	0	0	0	0	0	0
5/31/2024 11:26	67505	WEWI_T1	1	1	0	0.4	0.3	-0.1	-0.07	-0.07	1	1	0	900	900	0
5/31/2024 11:26	58001	WCAR_T1	5	6	1	0.74	0.57	-0.17	0	0	0	0	0	0	0	0
5/31/2024 11:26	67702	WERN_T2	2	1	-1	0.75	1.1	0.35	-0.01	-0.01	0	0	0	0	0	0
5/31/2024 11:26	58003	WCAR_T1	3	4	1	0.63	0.55	-0.08	0.83	0.82	0	0	0	0	0	0
5/31/2024 11:27	67503	WEWI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/31/2024 11:27	56802	BENV_T2	20	23	3	0.69	0.6	-0.09	-0.56	-0.6	0	0	0	0	0	0
5/31/2024 11:27	67502	WEWI_T2	9	10	1	0.62	0.64	0.02	-0.16	-0.18	0	0	0	0	0	0
5/31/2024 11:28	60901	DONG_T2	3	1	-2	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
5/31/2024 11:28	60902	DONG_T2	0	0	0	0	0	0	1	1.05	0	0	0	0	0	0
5/31/2024 11:28	60904	DONG_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/31/2024 11:29	25402	LAHA_T2	2	2	0	0.4	0.5	0.1	-0.29	-0.25	0	0	0	0	0	0
5/31/2024 11:30	53901	HALI_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/31/2024 11:30	53902	HALI_T2	3	3	0	2.47	2.67	0.2	0	0	0	0	0	0	0	0
5/31/2024 11:30	52001	LING_T1	1	1	0	0.4	0.5	0.1	0.25	0.27	0	0	0	0	0	0
5/31/2024 11:30	53903	HALI_T2	9	10	1	0.77	0.66	-0.11	-0.11	-0.11	0	0	0	0	0	0
5/31/2024 11:30	64702	LITI_T2	0	0	0	0	0	0	-0.48	-0.61	0	0	0	0	0	0
5/31/2024 11:31	52004	LING_T2	5	6	1	0.9	0.87	-0.03	0.41	0.4	0	0	0	0	0	0
5/31/2024 11:31	24104	EHAZ_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/31/2024 11:31	24101	EHAZ_T1	9	8	-1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
5/31/2024 11:31	64204	KINZ_T1	1	2	1	0.1	0.8	0.7	0	0	0	0	0	0	0	0
5/31/2024 11:31	24105	EHAZ_T1	4	4	0	6.38	6.3	-0.08	0	0	0	0	0	0	0	0
5/31/2024 11:31	26401	INOR_T1	3	4	1	2.97	2.18	-0.79	0	0	0	0	0	0	0	0
5/31/2024 11:31	24103	EHAZ_T1	0	0	0	0	0	0	-0.09	-0.05	0	0	0	0	0	0
5/31/2024 11:31	64203	KINZ_T1	0	0	0	0	0	0	1.51	1.11	1	2	1	600	900	300
5/31/2024 11:31	52002	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 11:31	52006	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 11:31	24102	EHAZ_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
5/31/2024 11:31	26402	INOR_T1	0	0	0	0	0	0	-0.9	-0.86	1	1	0	600	600	0
5/31/2024 11:32	55002	NEWP_T1	27	55	28	0.66	0.43	-0.23	-0.36	-0.34	0	0	0	0	0	0
5/31/2024 11:32	53903	HALI_T2	9	10	1	0.77	0.66	-0.11	-0.11	-0.11	0	0	0	0	0	0
5/31/2024 11:32	53901	HALI_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/31/2024 11:32	58402	MORO_T1	0	0	0	0	0	0	-0.12	-0.2	2	2	0	1500	1500	0
5/31/2024 11:32	53902	HALI_T2	3	3	0	2.47	2.67	0.2	0	0	0	0	0	0	0	0
5/31/2024 11:32	55001	NEWP_T1	5	3	-2	0.32	0.33	0.01	0	0	0	0	0	0	0	0
5/31/2024 11:32	58401	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/31/2024 11:33	53903	HALI_T2	9	10	1	0.77	0.66	-0.11	-0.11	-0.11	0	0	0	0	0	0
5/31/2024 11:33	52006	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 11:33	12502	MITR_T2	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
5/31/2024 11:33	53901	HALI_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/31/2024 11:33	53902	HALI_T2	3	3	0	2.47	2.67	0.2	0	0	0	0	0	0	0	0
5/31/2024 11:33	55003	NEWP_T2	14	14	0	0.51	0.41	-0.1	-0.07	-0.09	0	0	0	0	0	0
5/31/2024 11:33	52004	LING_T2	5	6	1	0.9	0.87	-0.03	0.41	0.4	0	0	0	0	0	0
5/31/2024 11:33	12501	MITR_T2	1	1	0	6	7.2	1.2	0	0	0	0	0	0	0	0
5/31/2024 11:33	52002	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 11:33	12505	MITR_T2	0	3	3	0	0.5	0.5	2.24	2.37	0	0	0	0	0	0
5/31/2024 11:34	55001	NEWP_T1	5	3	-2	0.32	0.33	0.01	0	0	0	0	0	0	0	0
5/31/2024 11:34	52006	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 11:34	52002	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 11:34	65904	SAKR_T2	5	6	1	0.22	0.38	0.16	0	0	0	0	0	0	0	0
5/31/2024 11:34	54203	PENN_T1	20	19	-1	0.65	0.62	-0.03	0	0	0	0	0	0	0	0
5/31/2024 11:34	65901	SAKR_T2	2	2	0	4.2	4.15	-0.05	-0.71	-0.78	1	1	0	900	900	0
5/31/2024 11:34	64203	KINZ_T1	0	0	0	0	0	0	1.51	1.11	1	2	1	600	900	300
5/31/2024 11:34	58401	MORO_T1	1	0	-1	0.2	0	-0.2	-1.74	-1.58	2	2	0	1200	1200	0
5/31/2024 11:34	44201	POIN_T1	0	3	3	0	0.13	0.13	-1.63	-1.67	2	2	0	2100	2100	0
5/31/2024 11:34	52004	LING_T2	5	6	1	0.9	0.87	-0.03	0.41	0.4	0	0	0	0	0	0
5/31/2024 11:34	54201	PENN_T1	13	12	-1	0.69	0.68	-0.01	-0.89	-0.88	0	0	0	0	0	0
5/31/2024 11:34	55002	NEWP_T1	27	55	28	0.66	0.43	-0.23	-0.36	-0.34	0	0	0	0	0	0
5/31/2024 11:34	64204	KINZ_T1	1	2	1	0.1	0.8	0.7	0	0	0	0	0	0	0	0
5/31/2024 11:35	65901	SAKR_T2	2	2	0	4.2	4.15	-0.05	0	0	0	0	0	0	0	0
5/31/2024 11:35	67401	WAKE_T2	3	4	1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
5/31/2024 11:35	67402	WAKE_T2	0	1	1	0	0.1	0.1	0.56	0.61	1	1	0	600	600	0
5/31/2024 11:35	54203	PENN_T1	20	19	-1	0.65	0.62	-0.03	0	0	0	0	0	0	0	0
5/31/2024 11:35	55001	NEWP_T1	5	3	-2	0.32	0.33	0.01	0	0	0	0	0	0	0	0
5/31/2024 11:35	54206	PENN_T2	1	1	0	0.2	0.2	0	0.13	0.18	0	0	0	0	0	0
5/31/2024 11:35	65904	SAKR_T2	5	6	1	0.22	0.38	0.16	-1.76	-1.78	3	3	0	1500	1500	0
5/31/2024 11:35	54201	PENN_T1	13	12	-1	0.69	0.68	-0.01	-0.89	-0.88	0	0	0	0	0	0
5/31/2024 11:35	55002	NEWP_T1	27	55	28	0.66	0.43	-0.23	-0.36	-0.34	0	0	0	0	0	0
5/31/2024 11:36	58401	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/31/2024 11:36	57403	SPAN_T1	19	58	39	0.23	0.24	0.01	0.05	0.04	0	0	0	0	0	0
5/31/2024 11:36	65202	PRIN_T1	16	0	-16	0.91	0	-0.91	0	0	0	0	0	0	0	0
5/31/2024 11:36	65205	PRIN_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
5/31/2024 11:36	57401	SPAN_T1	4	3	-1	0.73	1.13	0.4	0	0	0	0	0	0	0	0
5/31/2024 11:36	58402	MORO_T1	0	0	0	0	0	0	-0.12	-0.2	2	2	0	1500	1500	0
5/31/2024 11:37	40101	HUNT_T2	0	0	0	0	0	0	-0.23	-0.16	0	0	0	0	0	0
5/31/2024 11:38	57401	SPAN_T1	4	3	-1	0.73	1.13	0.4	0	0	0	0	0	0	0	0
5/31/2024 11:38	57403	SPAN_T1	19	58	39	0.23	0.24	0.01	0.04	0.04	0	0	0	0	0	0
5/31/2024 11:38	42201	SHEN_T2	1	1	0	0.1	0.2	0.1	0.63	0.62	0	0	0	0	0	0
5/31/2024 11:39	67401	WAKE_T2	3	4	1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
5/31/2024 11:39	67402	WAKE_T2	0	1	1	0	0.1	0.1	0.61	0.59	1	1	0	600	600	0
5/31/2024 11:40	67402	WAKE_T2	0	1	1	0	0.1	0.1	0.61	0.59	1	1	0	600	600	0
5/31/2024 11:40	67401	WAKE_T2	3	4	1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
5/31/2024 11:40	45902	AUBU_T1	3	3	0	0.83	0.87	0.04	-0.6	-0.61	1	1	0	600	600	0
5/31/2024 11:40	10805	CHHI_T2	1	1	0	8.8	8.6	-0.2	-0.95	-0.9	1	1	0	600	600	0
5/31/2024 11:41	16103	BING_T2	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
5/31/2024 11:41	16102	BING_T2	2	8	6	0.6	0.73	0.13	-1.03	-1.01	1	1	0	1200	1200	0
5/31/2024 11:41	16101	BING_T2	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
5/31/2024 11:42	48303	ORWI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/31/2024 11:42	48302	ORWI_T2	2	2	0	1	0.85	-0.15	0	0	0	0	0	0	0	0
5/31/2024 11:43	51603	DUKE_T1	2	2	0	0.15	0.15	0	-0.41	-0.42	0	0	0	0	0	0
5/31/2024 11:43	16103	BING_T2	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
5/31/2024 11:43	16102	BING_T2	2	8	6	0.6	0.73	0.13	0	0	0	0	0	0	0	0
5/31/2024 11:43	45902	AUBU_T1	3	3	0	0.83	0.87	0.04	-0.6	-0.61	1	1	0	600	600	0
5/31/2024 11:43	51601	DUKE_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/31/2024 11:43	16101	BING_T2	0	3	3	0	0.6	0.6	0.45	0.49	0	0	0	0	0	0
5/31/2024 11:44	49803	UNIV_T1	1	1	0	0.2	0.4	0.2	-0.91	-0.89	0	0	0	0	0	0
5/31/2024 11:44	10805	CHHI_T2	1	1	0	8.8	8.6	-0.2	-0.95	-0.9	1	1	0	600	600	0
5/31/2024 11:44	49804	UNIV_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/31/2024 11:48	58401	MORO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/31/2024 11:48	41205	KENM_T2	0	0	0	0	0	0	-0.71	-0.73	1	1	0	600	600	0
5/31/2024 11:48	58402	MORO_T1	0	0	0	0	0	0	-0.2	-0.23	2	2	0	1500	1500	0
5/31/2024 11:48	58202	NEWV_T1	0	5	5	0	0.24	0.24	0.27	0.3	0	0	0	0	0	0
5/31/2024 11:49	66502	SMAN_T2	2	13	11	0.7	0.46	-0.24	0	0	0	0	0	0	0	0
5/31/2024 11:49	40603	PIGR_T1	2	3	1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
5/31/2024 11:49	40602	PIGR_T1	2	3	1	0.35	0.47	0.12	0	0	0	0	0	0	0	0
5/31/2024 11:49	66504	SMAN_T2	0	1	1	0	1	1	-0.38	-0.3	0	0	0	0	0	0
5/31/2024 11:49	66501	SMAN_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/31/2024 11:49	40601	PIGR_T1	22	16	-6	0.44	0.5	0.06	0.17	0.18	0	0	0	0	0	0
5/31/2024 11:50	23102	MOSC_T2	0	0	0	0	0	0	0.29	0.14	1	1	0	900	900	0
5/31/2024 11:50	40601	PIGR_T1	22	16	-6	0.44	0.5	0.06	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/31/2024 11:50	40602	PIGR_T1	2	3	1	0.35	0.47	0.12	-0.88	-1.01	2	2	0	1200	1200	0
5/31/2024 11:50	40603	PIGR_T1	2	3	1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
5/31/2024 11:51	40601	PIGR_T1	22	16	-6	0.44	0.5	0.06	0.17	0.18	0	0	0	0	0	0
5/31/2024 11:51	40603	PIGR_T1	2	3	1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
5/31/2024 11:51	40602	PIGR_T1	2	3	1	0.35	0.47	0.12	-0.44	-0.5	1	1	0	600	600	0
5/31/2024 11:52	67501	WEWI_T1	4	5	1	0.78	0.74	-0.04	0	0	0	0	0	0	0	0
5/31/2024 11:52	40602	PIGR_T1	2	3	1	0.35	0.47	0.12	0	0	0	0	0	0	0	0
5/31/2024 11:52	65604	QVIL_T2	0	0	0	0	0	0	0.46	0.49	0	0	0	0	0	0
5/31/2024 11:52	58401	MORO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/31/2024 11:52	67502	WEWI_T2	7	4	-3	0.64	1.03	0.39	0	0	0	0	0	0	0	0
5/31/2024 11:52	15103	UPHA_T2	1	1	0	0.5	0.5	0	0.48	0.46	0	0	0	0	0	0
5/31/2024 11:52	67503	WEWI_T2	1	1	0	0.1	0.2	0.1	-0.21	-0.16	0	0	0	0	0	0
5/31/2024 11:52	40601	PIGR_T1	22	16	-6	0.44	0.5	0.06	0.17	0.18	0	0	0	0	0	0
5/31/2024 11:52	67505	WEWI_T1	1	2	1	0.3	0.5	0.2	-0.07	-0.14	1	1	0	900	900	0
5/31/2024 11:52	40603	PIGR_T1	2	3	1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
5/31/2024 11:52	58402	MORO_T1	0	0	0	0	0	0	-0.2	-0.23	2	2	0	1500	1500	0
5/31/2024 11:54	64101	REFR_T1	2	4	2	0.8	0.7	-0.1	-0.09	-0.02	0	0	0	0	0	0
5/31/2024 11:56	60803	BUCK_T1	0	7	7	0	0.16	0.16	0	0	0	0	0	0	0	0
5/31/2024 11:56	60801	BUCK_T1	4	42	38	0.23	0.28	0.05	-0.52	-0.78	1	1	0	600	600	0
5/31/2024 11:56	67502	WEWI_T2	7	4	-3	0.64	1.03	0.39	-0.13	-0.01	0	0	0	0	0	0
5/31/2024 11:56	67503	WEWI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/31/2024 11:56	41602	CLEV_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/31/2024 11:56	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 11:58	41602	CLEV_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/31/2024 11:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 11:58	41502	FAIR_T2	0	0	0	0	0	0	-0.63	-0.65	0	0	0	0	0	0
5/31/2024 11:59	41801	GOCI_T2	68	275	207	0.33	0.62	0.29	0	0	0	0	0	0	0	0
5/31/2024 11:59	63501	HEID_TBK1-2	2	13	11	0.25	0.44	0.19	0.73	0.73	0	0	0	0	0	0
5/31/2024 11:59	44505	HAMI_T2	3	4	1	0.27	0.35	0.08	0	0	0	0	0	0	0	0
5/31/2024 11:59	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 11:59	41602	CLEV_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/31/2024 11:59	44502	HAMI_T2	3	3	0	0.97	1.17	0.2	-0.75	-0.75	0	0	0	0	0	0
5/31/2024 11:59	44504	HAMI_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/31/2024 12:00	41801	GOCI_T2	119	280	161	0.36	0.61	0.25	0	0	0	0	0	0	0	0
5/31/2024 12:00	41202	KENM_T2	0	0	0	0	0	0	0.68	0.73	0	0	0	0	0	0
5/31/2024 12:00	41802	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 12:00	23403	HONE_T1	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
5/31/2024 12:01	63501	HEID_TBK1-2	5	14	9	0.34	0.42	0.08	0.73	0.73	0	0	0	0	0	0
5/31/2024 12:03	58401	MORO_T1	0	1	1	0	0.3	0.3	-0.77	-0.82	1	1	0	600	600	0
5/31/2024 12:03	40101	HUNT_T2	0	3	3	0	0.27	0.27	-0.24	-0.22	0	0	0	0	0	0
5/31/2024 12:03	58402	MORO_T1	0	0	0	0	0	0	-0.23	-0.23	2	2	0	1500	1500	0
5/31/2024 12:04	41902	REED_T1	1	1	0	0.4	0.7	0.3	2.24	2.36	0	0	0	0	0	0
5/31/2024 12:05	13503	MCMI_T2	6	12	6	0.53	0.54	0.01	-0.01	-0.01	0	0	0	0	0	0
5/31/2024 12:05	60502	NMAN_T2	1	1	0	0.1	0.7	0.6	-0.01	-0.01	0	0	0	0	0	0
5/31/2024 12:05	60501	NMAN_T2	5	9	4	3.3	2.27	-1.03	0	0	0	0	0	0	0	0
5/31/2024 12:05	60504	NMAN_T2	2	3	1	0.9	1.23	0.33	0	0	0	0	0	0	0	0
5/31/2024 12:06	57006	WHHI_T2	2	1	-1	0.7	1.3	0.6	0	0	0	0	0	0	0	0
5/31/2024 12:06	57004	WHHI_T2	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
5/31/2024 12:06	57003	WHHI_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
5/31/2024 12:07	59202	THOM_T1	56	117	61	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
5/31/2024 12:07	59201	THOM_T1	1	5	4	1.6	0.58	-1.02	0	0	0	0	0	0	0	0
5/31/2024 12:08	15103	UPHA_T2	1	1	0	0.1	0.7	0.6	0.45	0.46	0	0	0	0	0	0
5/31/2024 12:08	59202	THOM_T1	56	117	61	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
5/31/2024 12:08	59201	THOM_T1	1	5	4	1.6	0.58	-1.02	0	0	0	0	0	0	0	0
5/31/2024 12:09	67401	WAKE_T2	4	2	-2	0.43	0.65	0.22	-1.01	-0.99	0	0	0	0	0	0
5/31/2024 12:09	67402	WAKE_T2	1	1	0	0.1	0.4	0.3	1.13	1.17	2	2	0	1200	1200	0
5/31/2024 12:09	40301	TAMA_T3	1	2	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 12:09	40302	TAMA_T3	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
5/31/2024 12:10	60904	DONG_T2	2	5	3	0.25	0.48	0.23	0	0	0	0	0	0	0	0
5/31/2024 12:10	29401	BELT_T1	52	46	-6	0.21	0.22	0.01	0	0	0	0	0	0	0	0
5/31/2024 12:10	60901	DONG_T2	3	10	7	0.3	0.49	0.19	0	0	0	0	0	0	0	0
5/31/2024 12:10	29402	BELT_T1	7	6	-1	1.9	2.13	0.23	0	0	0	0	0	0	0	0
5/31/2024 12:10	60903	DONG_T2	0	2	2	0	0.3	0.3	0.76	0.77	1	1	0	600	600	0
5/31/2024 12:11	67505	WEWI_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
5/31/2024 12:11	67502	WEWI_T2	3	4	1	0.9	1.05	0.15	0	0	0	0	0	0	0	0
5/31/2024 12:11	67501	WEWI_T1	4	5	1	0.8	0.74	-0.06	-0.42	-0.32	0	0	0	0	0	0
5/31/2024 12:11	67503	WEWI_T2	1	1	0	0.2	0.2	0	-0.12	-0.17	0	0	0	0	0	0
5/31/2024 12:12	67503	WEWI_T2	1	1	0	0.2	0.2	0	-0.12	-0.17	0	0	0	0	0	0
5/31/2024 12:12	60801	BUCK_T1	1	45	44	0.2	0.27	0.07	-0.78	-0.8	1	1	0	600	600	0
5/31/2024 12:12	67502	WEWI_T2	3	4	1	0.9	1.05	0.15	0	0	0	0	0	0	0	0
5/31/2024 12:12	60803	BUCK_T1	0	7	7	0	0.16	0.16	0	0	0	0	0	0	0	0
5/31/2024 12:13	29402	BELT_T1	7	6	-1	1.9	2.13	0.23	0	0	0	0	0	0	0	0
5/31/2024 12:13	29401	BELT_T1	52	46	-6	0.21	0.22	0.01	0	0	1	1	0	900	900	0
5/31/2024 12:13	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 12:13	67502	WEWI_T2	3	4	1	0.9	1.05	0.15	0	0	0	0	0	0	0	0
5/31/2024 12:13	10102	ALLE_T2	1	1	0	7.1	7.4	0.3	0	0	0	0	0	0	0	0
5/31/2024 12:13	67503	WEWI_T2	1	1	0	0.2	0.2	0	-0.12	-0.17	0	0	0	0	0	0
5/31/2024 12:15	52401	GRPA_T2	3	3	0	0.57	0.33	-0.24	-0.34	-0.32	0	0	0	0	0	0
5/31/2024 12:15	52403	GRPA_T2	3	9	6	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
5/31/2024 12:15	52402	GRPA_T2	44	91	47	0.4	0.4	0	0	0	0	0	0	0	0	0
5/31/2024 12:16	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
5/31/2024 12:16	46504	LOHA_T1	2	15	13	0.6	0.28	-0.32	0	0	0	0	0	0	0	0
5/31/2024 12:16	46506	LOHA_T1	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
5/31/2024 12:16	46501	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 12:16	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 12:16	42901	MIDD_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
5/31/2024 12:16	42902	MIDD_T2	30	32	2	0.33	0.29	-0.04	0.31	0.32	0	0	0	0	0	0
5/31/2024 12:16	42903	MIDD_T2	6	5	-1	0.88	1.08	0.2	0	0	0	0	0	0	0	0
5/31/2024 12:16	54505	ENOL_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
5/31/2024 12:16	54504	ENOL_T2	1	1	0	0.8	0.9	0.1	-1.1	-1.1	1	1	0	600	600	0
5/31/2024 12:17	42901	MIDD_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
5/31/2024 12:17	42903	MIDD_T2	6	5	-1	0.88	1.08	0.2	0	0	0	0	0	0	0	0
5/31/2024 12:17	42902	MIDD_T2	30	32	2	0.33	0.29	-0.04	0.62	0.65	0	0	0	0	0	0
5/31/2024 12:19	42903	MIDD_T2	6	5	-1	0.88	1.08	0.2	0.7	0.71	0	0	0	0	0	0
5/31/2024 12:19	42902	MIDD_T2	30	32	2	0.33	0.29	-0.04	0.31	0.32	0	0	0	0	0	0
5/31/2024 12:19	42901	MIDD_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
5/31/2024 12:20	42903	MIDD_T2	6	5	-1	0.88	1.08	0.2	0	0	0	0	0	0	0	0
5/31/2024 12:20	42901	MIDD_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
5/31/2024 12:20	66504	SMAN_T2	1	2	1	1	0.8	-0.2	-0.19	-0.31	0	0	0	0	0	0
5/31/2024 12:20	42902	MIDD_T2	30	32	2	0.33	0.29	-0.04	0.31	0.32	0	0	0	0	0	0
5/31/2024 12:20	65603	QVIL_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
5/31/2024 12:20	66501	SMAN_T2	2	2	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
5/31/2024 12:20	66502	SMAN_T2	13	13	0	0.46	0.57	0.11	0	0	0	0	0	0	0	0
5/31/2024 12:20	66505	SMAN_T2	0	0	0	0	0	0	0.78	0.89	1	1	0	900	900	0
5/31/2024 12:21	66701	STRA_T1	2	2	0	1.05	1.2	0.15	0	0	0	0	0	0	0	0
5/31/2024 12:21	66703	STRA_T1	0	0	0	0	0	0	0.05	0.15	0	0	0	0	0	0
5/31/2024 12:21	66503	SMAN_T2	0	0	0	0	0	0	0.54	0.49	0	0	0	0	0	0
5/31/2024 12:21	66502	SMAN_T2	13	13	0	0.46	0.57	0.11	0	0	0	0	0	0	0	0
5/31/2024 12:21	13503	MCMI_T2	8	14	6	0.59	0.54	-0.05	-0.01	-0.01	0	0	0	0	0	0
5/31/2024 12:21	66501	SMAN_T2	2	2	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
5/31/2024 12:21	66504	SMAN_T2	1	2	1	1	0.8	-0.2	-0.19	-0.31	0	0	0	0	0	0
5/31/2024 12:22	65901	SAKR_T2	2	2	0	4.15	4.1	-0.05	-0.73	-0.71	1	1	0	900	900	0
5/31/2024 12:22	65904	SAKR_T2	6	5	-1	0.43	0.34	-0.09	0	0	0	0	0	0	0	0
5/31/2024 12:22	66701	STRA_T1	2	2	0	1.05	1.2	0.15	0	0	0	0	0	0	0	0
5/31/2024 12:22	66702	STRA_T1	0	0	0	0	0	0	-0.59	-0.6	2	2	0	1500	1500	0
5/31/2024 12:23	67603	WARW_T1	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
5/31/2024 12:23	66504	SMAN_T2	1	2	1	1	0.8	-0.2	-0.63	-0.62	0	0	0	0	0	0
5/31/2024 12:23	66501	SMAN_T2	2	2	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
5/31/2024 12:23	66502	SMAN_T2	13	13	0	0.46	0.57	0.11	0	0	0	0	0	0	0	0
5/31/2024 12:23	67605	WARW_T1	17	19	2	0.69	0.69	0	-0.99	-0.98	0	0	0	0	0	0
5/31/2024 12:24	56802	BENV_T2	29	20	-9	0.48	0.51	0.03	-1.12	-1	0	0	0	0	0	0
5/31/2024 12:24	60101	COCA_T1	2	3	1	0.3	0.2	-0.1	0.36	0.4	0	0	0	0	0	0
5/31/2024 12:25	56802	BENV_T2	29	20	-9	0.48	0.51	0.03	-1.12	-1	0	0	0	0	0	0
5/31/2024 12:26	57002	WHHI_T2	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
5/31/2024 12:26	57006	WHHI_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
5/31/2024 12:26	57003	WHHI_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/31/2024 12:26	56802	BENV_T2	29	20	-9	0.48	0.51	0.03	-0.56	-0.5	0	0	0	0	0	0
5/31/2024 12:27	56802	BENV_T2	29	20	-9	0.48	0.51	0.03	-0.56	-0.5	0	0	0	0	0	0
5/31/2024 12:27	11205	ELHE_T1	0	1	1	0	7.5	7.5	-0.46	-0.44	1	1	0	1200	1200	0
5/31/2024 12:28	56802	BENV_T2	29	20	-9	0.48	0.51	0.03	-0.56	-0.5	0	0	0	0	0	0
5/31/2024 12:32	54201	PENN_T1	11	10	-1	0.72	0.74	0.02	-0.87	-0.84	0	0	0	0	0	0
5/31/2024 12:32	13503	MCMI_T2	12	12	0	0.54	0.63	0.09	-0.01	-0.01	0	0	0	0	0	0
5/31/2024 12:32	54203	PENN_T1	19	19	0	0.57	0.47	-0.1	0	0	0	0	0	0	0	0
5/31/2024 12:33	65604	QVIL_T2	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
5/31/2024 12:33	65603	QVIL_T2	0	0	0	0	0	0	0.33	0.55	0	0	0	0	0	0
5/31/2024 12:34	46302	ROHR_T1	13	12	-1	1.02	1.03	0.01	0.18	0.2	0	0	0	0	0	0
5/31/2024 12:34	46301	ROHR_T1	83	50	-33	0.3	0.35	0.05	0.27	0.25	0	0	0	0	0	0
5/31/2024 12:35	46506	LOHA_T1	2	2	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
5/31/2024 12:35	46301	ROHR_T1	83	50	-33	0.3	0.35	0.05	0	0	0	0	0	0	0	0
5/31/2024 12:35	46504	LOHA_T1	15	4	-11	0.28	0.65	0.37	0	0	0	0	0	0	0	0
5/31/2024 12:35	46302	ROHR_T1	13	12	-1	1.02	1.03	0.01	0.18	0.2	0	0	0	0	0	0
5/31/2024 12:35	46501	LOHA_T1	0	0	0	0	0	0	0.1	0.11	1	1	0	1200	1200	0
5/31/2024 12:36	42802	SELI_T1	0	0	0	0	0	0	-0.61	-0.55	1	1	0	900	900	0
5/31/2024 12:36	46302	ROHR_T1	13	12	-1	1.02	1.03	0.01	0	0	0	0	0	0	0	0
5/31/2024 12:36	58705	ROSE_T2	5	5	0	2.06	2.12	0.06	0	0	0	0	0	0	0	0
5/31/2024 12:36	58706	ROSE_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
5/31/2024 12:36	58701	ROSE_T2	0	0	0	0	0	0	-1.51	-1.48	1	1	0	600	600	0
5/31/2024 12:36	46301	ROHR_T1	83	50	-33	0.3	0.35	0.05	0.27	0.25	0	0	0	0	0	0
5/31/2024 12:37	13701	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 12:37	13704	SCHN_T2	1	1	0	0.5	0.6	0.1	-0.09	-0.09	0	0	0	0	0	0
5/31/2024 12:37	55101	WERT_T1	0	0	0	0	0	0	-1.23	-1.26	2	2	0	1500	1500	0
5/31/2024 12:38	46302	ROHR_T1	13	12	-1	1.02	1.03	0.01	0	0	0	0	0	0	0	0
5/31/2024 12:38	42802	SELI_T1	0	0	0	0	0	0	-0.55	-0.5	1	1	0	900	900	0
5/31/2024 12:38	46301	ROHR_T1	83	50	-33	0.3	0.35	0.05	0.25	0.24	0	0	0	0	0	0
5/31/2024 12:39	56801	BENV_T1	17	21	4	0.75	0.79	0.04	-0.51	-0.67	2	2	0	1200	1200	0
5/31/2024 12:39	56803	BENV_T1	7	8	1	0.81	0.69	-0.12	0	0	0	0	0	0	0	0
5/31/2024 12:40	56803	BENV_T1	7	8	1	0.81	0.69	-0.12	0	0	0	0	0	0	0	0
5/31/2024 12:40	56801	BENV_T1	17	21	4	0.75	0.79	0.04	-0.26	-0.34	1	1	0	600	600	0
5/31/2024 12:41	56802	BENV_T2	17	19	2	0.52	0.64	0.12	-0.5	-0.49	0	0	0	0	0	0
5/31/2024 12:42	44301	BEAV_T2	12	2	-10	0.45	0.35	-0.1	0.65	0.59	1	1	0	600	600	0
5/31/2024 12:42	56803	BENV_T1	7	8	1	0.81	0.69	-0.12	0	0	0	0	0	0	0	0
5/31/2024 12:42	23901	EFMO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/31/2024 12:42	56801	BENV_T1	17	21	4	0.75	0.79	0.04	-0.26	-0.34	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/31/2024 12:42	44302	BEAV_T2	5	1	-4	0.42	0.6	0.18	1.3	1.31	0	0	0	0	0	0
5/31/2024 12:43	60101	COCA_T1	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
5/31/2024 12:43	56802	BENV_T2	17	19	2	0.52	0.64	0.12	-1	-0.98	0	0	0	0	0	0
5/31/2024 12:43	51603	DUKE_T1	2	2	0	0.15	0.15	0	-0.41	-0.28	0	0	0	0	0	0
5/31/2024 12:43	60102	COCA_T1	0	0	0	0	0	0	-0.46	-0.17	2	2	0	1200	1200	0
5/31/2024 12:43	51601	DUKE_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
5/31/2024 12:44	56802	BENV_T2	17	19	2	0.52	0.64	0.12	-0.5	-0.49	0	0	0	0	0	0
5/31/2024 12:44	24105	EHAZ_T1	4	4	0	6.18	6.2	0.02	0	0	0	0	0	0	0	0
5/31/2024 12:44	24101	EHAZ_T1	2	1	-1	0.75	1.2	0.45	0	0	0	0	0	0	0	0
5/31/2024 12:44	24102	EHAZ_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
5/31/2024 12:44	24104	EHAZ_T1	2	2	0	0.4	0.4	0	-0.85	-0.87	1	1	0	1200	1200	0
5/31/2024 12:45	64501	LAVI_T1	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/31/2024 12:45	64502	LAVI_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/31/2024 12:45	64503	LAVI_T1	2	3	1	0.2	0.23	0.03	-0.64	-0.5	2	2	0	2400	2400	0
5/31/2024 12:46	45702	LIND_T2	2	2	0	0.65	1	0.35	-0.62	-0.48	0	0	0	0	0	0
5/31/2024 12:46	64502	LAVI_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/31/2024 12:46	41202	KENM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 12:46	41204	KENM_T2	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
5/31/2024 12:46	64501	LAVI_T1	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
5/31/2024 12:46	64503	LAVI_T1	2	3	1	0.2	0.23	0.03	-0.32	-0.25	1	1	0	1200	1200	0
5/31/2024 12:47	59302	MCAL_T1	0	0	0	0	0	0	-0.08	-0.02	1	1	0	600	600	0
5/31/2024 12:47	59301	MCAL_T1	9	7	-2	0.48	0.44	-0.04	0	0	0	0	0	0	0	0
5/31/2024 12:47	13503	MCMI_T2	11	12	1	0.54	0.63	0.09	-0.01	-0.01	0	0	0	0	0	0
5/31/2024 12:47	28805	LAKE_T1	0	1	1	0	0	0	-0.2	-0.21	0	0	0	0	0	0
5/31/2024 12:48	57302	MOAL_T2	0	0	0	0	0	0	-1.57	-1.56	1	1	0	1200	1200	0
5/31/2024 12:48	57303	MOAL_T2	1	1	0	7.9	7.8	-0.1	0	0	0	0	0	0	0	0
5/31/2024 12:48	57304	MOAL_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/31/2024 12:48	57306	MOAL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/31/2024 12:48	45702	LIND_T2	2	2	0	0.65	1	0.35	-0.62	-0.48	0	0	0	0	0	0
5/31/2024 12:49	12801	MICK_T1	0	0	0	0	0	0	0.17	0.16	1	1	0	600	600	0
5/31/2024 12:49	65702	RVIL_T2	3	1	-2	0.27	0.4	0.13	-0.73	-0.76	1	1	0	600	600	0
5/31/2024 12:49	12803	MICK_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/31/2024 12:50	58402	MORO_T1	0	0	0	0	0	0	-0.23	-0.18	2	2	0	1500	1500	0
5/31/2024 12:50	58401	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 12:51	57306	MOAL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/31/2024 12:51	57304	MOAL_T2	1	2	1	0.3	0.2	-0.1	-0.5	-0.52	0	0	0	0	0	0
5/31/2024 12:51	57303	MOAL_T2	1	1	0	7.9	7.8	-0.1	0	0	0	0	0	0	0	0
5/31/2024 12:52	67701	WERN_T2	2	3	1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
5/31/2024 12:52	67703	WERN_T2	2	4	2	0.85	0.63	-0.22	-0.07	-0.07	1	1	0	900	900	0
5/31/2024 12:52	67702	WERN_T2	2	2	0	0.7	0.9	0.2	-0.01	0.06	0	0	0	0	0	0
5/31/2024 12:52	67303	WYOM_T2	0	1	1	0	0.1	0.1	0.11	0.2	0	0	0	0	0	0
5/31/2024 12:53	67702	WERN_T2	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
5/31/2024 12:53	67701	WERN_T2	2	3	1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
5/31/2024 12:53	67703	WERN_T2	2	4	2	0.85	0.63	-0.22	-0.22	-0.16	3	3	0	2700	2700	0
5/31/2024 12:54	65702	RVIL_T2	3	1	-2	0.27	0.4	0.13	-0.76	-0.77	1	1	0	600	600	0
5/31/2024 12:54	67701	WERN_T2	2	3	1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
5/31/2024 12:54	67703	WERN_T2	2	4	2	0.85	0.63	-0.22	-0.07	-0.05	1	1	0	900	900	0
5/31/2024 12:54	67702	WERN_T2	2	2	0	0.7	0.9	0.2	0.03	0.05	0	0	0	0	0	0
5/31/2024 12:55	46004	BERW_T2	4	2	-2	0.43	0.35	-0.08	-0.46	-0.43	0	0	0	0	0	0
5/31/2024 12:55	10903	COOP_T2	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
5/31/2024 12:55	10901	COOP_T2	1	1	0	0.2	0.5	0.3	0.11	0.16	1	1	0	1200	1200	0
5/31/2024 12:55	46002	BERW_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
5/31/2024 12:56	67703	WERN_T2	2	4	2	0.85	0.63	-0.22	-0.07	-0.05	1	1	0	900	900	0
5/31/2024 12:56	67702	WERN_T2	2	2	0	0.7	0.9	0.2	0.03	0.05	0	0	0	0	0	0
5/31/2024 12:56	67701	WERN_T2	2	3	1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
5/31/2024 12:57	23203	HIRU_T2	7	2	-5	0.26	0.55	0.29	0.15	0.15	0	0	0	0	0	0
5/31/2024 12:57	23201	HIRU_T2	10	12	2	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
5/31/2024 12:57	23202	HIRU_T2	20	18	-2	0.23	0.24	0.01	0	0	0	0	0	0	0	0
5/31/2024 12:57	67002	STHI_T2	3	3	0	0.23	0.33	0.1	0.79	0.83	0	0	0	0	0	0
5/31/2024 12:58	67002	STHI_T2	3	3	0	0.23	0.33	0.1	0.79	0.83	0	0	0	0	0	0
5/31/2024 13:00	63501	HEID_TBK1-2	19	19	0	0.39	0.36	-0.03	0.78	0.75	0	0	0	0	0	0
5/31/2024 13:03	22405	MORG_T2	0	1	1	0	0.1	0.1	-0.08	-0.04	0	0	0	0	0	0
5/31/2024 13:03	13503	MCMI_T2	11	12	1	0.66	0.6	-0.06	-0.01	-0.01	0	0	0	0	0	0
5/31/2024 13:03	22401	MORG_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/31/2024 13:04	22401	MORG_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/31/2024 13:04	22405	MORG_T2	0	1	1	0	0.1	0.1	-0.08	-0.04	0	0	0	0	0	0
5/31/2024 13:04	65603	QVIL_T2	0	0	0	0	0	0	0.51	0.63	0	0	0	0	0	0
5/31/2024 13:05	13503	MCMI_T2	11	12	1	0.66	0.6	-0.06	-0.01	-0.01	0	0	0	0	0	0
5/31/2024 13:06	58402	MORO_T1	0	1	1	0	0	0	-0.18	-0.17	2	2	0	1500	1500	0
5/31/2024 13:06	44601	SALE_T2	0	0	0	0	0	0	0.94	1.19	1	1	0	600	600	0
5/31/2024 13:07	64101	REFR_T1	2	3	1	1.1	0.43	-0.67	-0.04	0.01	0	0	0	0	0	0
5/31/2024 13:08	13606	RICH_T2	1	1	0	7.3	7.4	0.1	1.12	1.25	0	0	0	0	0	0
5/31/2024 13:08	43301	WATS_T2	1	3	2	0.4	0.3	-0.1	0	0	2	2	0	1800	1800	0
5/31/2024 13:09	67701	WERN_T2	3	2	-1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
5/31/2024 13:09	67703	WERN_T2	4	4	0	0.63	0.58	-0.05	-0.05	-0.05	1	1	0	900	900	0
5/31/2024 13:09	67702	WERN_T2	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/31/2024 13:10	56801	BENV_T1	19	20	1	0.83	0.84	0.01	-0.34	-0.31	1	1	0	600	600	0
5/31/2024 13:10	67401	WAKE_T2	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/31/2024 13:10	13601	RICH_T2	0	0	0	0	0	0	0.23	0.22	1	1	0	600	600	0
5/31/2024 13:10	67402	WAKE_T2	0	0	0	0	0	0	0.63	0.59	1	1	0	600	600	0
5/31/2024 13:10	43301	WATS_T2	1	3	2	0.4	0.3	-0.1	0	0	1	0	-1	900	0	-900
5/31/2024 13:10	67701	WERN_T2	3	2	-1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
5/31/2024 13:10	56803	BENV_T1	7	10	3	0.73	0.73	0	0	0	0	0	0	0	0	0
5/31/2024 13:10	67703	WERN_T2	4	4	0	0.63	0.58	-0.05	-0.05	-0.05	1	1	0	900	900	0
5/31/2024 13:10	67702	WERN_T2	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/31/2024 13:10	13606	RICH_T2	1	1	0	7.3	7.4	0.1	0	0	0	0	0	0	0	0
5/31/2024 13:11	67701	WERN_T2	3	2	-1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
5/31/2024 13:11	67702	WERN_T2	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/31/2024 13:11	56803	BENV_T1	7	10	3	0.73	0.73	0	0	0	0	0	0	0	0	0
5/31/2024 13:11	56801	BENV_T1	19	20	1	0.83	0.84	0.01	-2.04	-1.85	6	6	0	3600	3600	0
5/31/2024 13:11	67703	WERN_T2	4	4	0	0.63	0.58	-0.05	-0.05	-0.05	1	1	0	900	900	0
5/31/2024 13:12	67002	STHI_T2	3	3	0	0.33	0.37	0.04	0.83	0.82	0	0	0	0	0	0
5/31/2024 13:13	56801	BENV_T1	19	20	1	0.83	0.84	0.01	-0.34	-0.31	1	1	0	600	600	0
5/31/2024 13:13	56803	BENV_T1	7	10	3	0.73	0.73	0	0	0	0	0	0	0	0	0
5/31/2024 13:14	54505	ENOL_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
5/31/2024 13:14	54504	ENOL_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
5/31/2024 13:14	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	0.18	0.17	0	0	0	0	0	0
5/31/2024 13:14	41801	GOCI_T2	83	91	8	0.32	0.36	0.04	0	0	0	0	0	0	0	0
5/31/2024 13:17	58101	NEKI_T1	4	4	0	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
5/31/2024 13:17	41801	GOCI_T2	39	88	49	0.36	0.35	-0.01	0	0	0	0	0	0	0	0
5/31/2024 13:17	58102	NEKI_T1	2	2	0	1	0.9	-0.1	-0.78	-0.84	1	1	0	1200	1200	0
5/31/2024 13:18	27605	PIRI_T2	0	0	0	0	0	0	0.78	0.73	0	0	0	0	0	0
5/31/2024 13:20	65904	SAKR_T2	3	1	-2	0.27	0.5	0.23	0	0	0	0	0	0	0	0
5/31/2024 13:20	65901	SAKR_T2	1	1	0	7.5	7.5	0	-0.59	-0.66	1	1	0	900	900	0
5/31/2024 13:21	66505	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/31/2024 13:21	66504	SMAN_T2	2	2	0	0.8	0.8	0	-0.52	-0.56	0	0	0	0	0	0
5/31/2024 13:21	66501	SMAN_T2	2	2	0	0.4	0.85	0.45	0	0	0	0	0	0	0	0
5/31/2024 13:21	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 13:21	66502	SMAN_T2	12	17	5	0.4	0.42	0.02	0	0	0	0	0	0	0	0
5/31/2024 13:22	13503	MCMI_T2	12	13	1	1.38	0.6	-0.78	-0.01	-0.01	0	0	0	0	0	0
5/31/2024 13:22	43103	SMIL_T2	13	10	-3	0.49	0.57	0.08	0	0	0	0	0	0	0	0
5/31/2024 13:22	43104	SMIL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
5/31/2024 13:22	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 13:22	43102	SMIL_T2	6	6	0	0.18	0.32	0.14	0	0	0	0	0	0	0	0
5/31/2024 13:22	43101	SMIL_T2	3	2	-1	0.73	1.05	0.32	-0.62	-0.61	0	0	0	0	0	0
5/31/2024 13:22	43105	SMIL_T2	2	3	1	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
5/31/2024 13:25	67103	SPRI_T1	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
5/31/2024 13:25	67401	WAKE_T2	2	2	0	0.4	0.4	0	-0.96	-0.93	0	0	0	0	0	0
5/31/2024 13:28	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 13:28	41602	CLEV_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
5/31/2024 13:29	67002	STHI_T2	3	3	0	0.23	0.33	0.1	0	0	0	0	0	0	0	0
5/31/2024 13:29	45501	DERR_T2	2	2	0	0.25	0.4	0.15	0.54	0.59	2	2	0	1800	1800	0
5/31/2024 13:29	67001	STHI_T2	0	0	0	0	0	0	1.31	1.37	0	0	0	0	0	0
5/31/2024 13:32	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 13:32	13503	MCMI_T2	10	13	3	0.52	0.63	0.11	-0.01	-0.01	0	0	0	0	0	0
5/31/2024 13:32	58402	MORO_T1	0	0	0	0	0	0	-0.16	-0.19	2	2	0	1500	1500	0
5/31/2024 13:33	45702	LIND_T2	2	2	0	0.95	1.05	0.1	-0.45	-0.45	0	0	0	0	0	0
5/31/2024 13:34	59301	MCAL_T1	9	8	-1	0.52	0.69	0.17	0	0	0	0	0	0	0	0
5/31/2024 13:34	59302	MCAL_T1	0	0	0	0	0	0	-0.03	-0.05	1	1	0	600	600	0
5/31/2024 13:35	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/31/2024 13:35	66501	SMAN_T2	2	2	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
5/31/2024 13:35	66504	SMAN_T2	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
5/31/2024 13:35	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 13:35	66502	SMAN_T2	16	9	-7	0.39	0.6	0.21	0.3	0.3	0	0	0	0	0	0
5/31/2024 13:37	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 13:37	58002	WCAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 13:37	66502	SMAN_T2	16	9	-7	0.39	0.6	0.21	0	0	0	0	0	0	0	0
5/31/2024 13:37	66504	SMAN_T2	2	2	0	0.8	0.6	-0.2	-0.56	-0.4	0	0	0	0	0	0
5/31/2024 13:37	58006	WCAR_T2	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
5/31/2024 13:37	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/31/2024 13:37	66501	SMAN_T2	2	2	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
5/31/2024 13:40	58002	WCAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 13:40	58006	WCAR_T2	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
5/31/2024 13:41	67804	WLAN_T1	4	1	-3	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
5/31/2024 13:41	67803	WLAN_T1	6	5	-1	0.27	0.28	0.01	-0.75	-0.72	0	0	0	0	0	0
5/31/2024 13:43	41602	CLEV_T1	1	1	0	0.8	1.1	0.3	0	0	1	1	0	600	600	0
5/31/2024 13:44	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 13:44	41602	CLEV_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
5/31/2024 13:48	13503	MCMI_T2	12	27	15	0.64	0.56	-0.08	-0.01	-0.01	0	0	0	0	0	0
5/31/2024 13:50	58202	NEWV_T1	0	0	0	0	0	0	0.78	0.53	0	0	0	0	0	0
5/31/2024 13:50	64101	REFR_T1	2	3	1	0.7	0.6	-0.1	-0.01	-0.02	0	0	0	0	0	0
5/31/2024 13:50	17002	RIRO_T2	7	8	1	0.74	0.69	-0.05	0.77	0.74	0	0	0	0	0	0
5/31/2024 13:55	67002	STHI_T2	3	3	0	0.2	0.1	-0.1	1.62	1.62	0	0	0	0	0	0
5/31/2024 13:57	21203	ECAR_T1	16	85	69	0.35	0.42	0.07	0.83	0.89	0	0	0	0	0	0
5/31/2024 13:59	67002	STHI_T2	3	3	0	0.2	0.1	-0.1	0.81	0.81	0	0	0	0	0	0
5/31/2024 14:03	26401	INOR_T1	3	3	0	2.33	2.67	0.34	1.11	1.06	0	0	0	0	0	0
5/31/2024 14:04	13503	MCMI_T2	12	27	15	0.63	0.55	-0.08	-0.01	-0.01	0	0	0	0	0	0
5/31/2024 14:05	42802	SELI_T1	0	0	0	0	0	0	-0.49	-0.51	1	1	0	900	900	0
5/31/2024 14:06	14402	SSLA_T1	1	4	3	0.6	0.65	0.05	0	0	0	0	0	0	0	0
5/31/2024 14:06	14401	SSLA_T1	4	6	2	0.8	0.97	0.17	-0.32	-0.29	0	0	0	0	0	0
5/31/2024 14:06	14403	SSLA_T1	3	4	1	0.6	0.83	0.23	0	0	0	0	0	0	0	0
5/31/2024 14:06	15204	SFAR_T2	0	1	1	0	0.6	0.6	0.11	0.11	0	0	0	0	0	0
5/31/2024 14:06	14404	SSLA_T1	3	5	2	1.97	1.48	-0.49	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/31/2024 14:06	15203	SFAR_T2	4	4	0	0.45	0.68	0.23	0	0	0	0	0	0	0	0
5/31/2024 14:07	58002	WCAR_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/31/2024 14:07	58006	WCAR_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
5/31/2024 14:08	67203	TEHI_T1	0	1	1	0	0.4	0.4	3.76	3.8	6	6	0	4200	4200	0
5/31/2024 14:08	15204	SFAR_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
5/31/2024 14:08	15203	SFAR_T2	4	4	0	0.45	0.68	0.23	-0.92	-0.95	0	0	0	0	0	0
5/31/2024 14:09	13903	SEID_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
5/31/2024 14:09	13902	SEID_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
5/31/2024 14:09	13905	SEID_T1	2	1	-1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
5/31/2024 14:09	13901	SEID_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
5/31/2024 14:11	60101	COCA_T1	3	3	0	0.37	0.37	0	0.49	0.47	0	0	0	0	0	0
5/31/2024 14:11	29401	BELT_T1	7	3	-4	0.44	0.23	-0.21	0	0	0	0	0	0	0	0
5/31/2024 14:11	29402	BELT_T1	6	107	101	0.4	0.62	0.22	0	0	0	0	0	0	0	0
5/31/2024 14:12	29401	BELT_T1	7	3	-4	0.44	0.23	-0.21	0	0	0	0	0	0	0	0
5/31/2024 14:12	46005	BERW_T1	9	9	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/31/2024 14:12	29402	BELT_T1	6	107	101	0.4	0.62	0.22	0	0	0	0	0	0	0	0
5/31/2024 14:12	46001	BERW_T1	1	1	0	0.2	0.2	0	0.85	0.87	0	0	0	0	0	0
5/31/2024 14:13	52403	GRPA_T2	4	19	15	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
5/31/2024 14:13	46002	BERW_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/31/2024 14:13	52401	GRPA_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
5/31/2024 14:13	46004	BERW_T2	2	2	0	0.35	0.5	0.15	-0.42	-0.4	0	0	0	0	0	0
5/31/2024 14:13	52402	GRPA_T2	30	23	-7	0.51	0.56	0.05	-0.77	-0.74	0	0	0	0	0	0
5/31/2024 14:14	46005	BERW_T1	9	9	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/31/2024 14:14	46001	BERW_T1	1	1	0	0.2	0.2	0	2.55	2.61	0	0	0	0	0	0
5/31/2024 14:14	26703	HEML_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	600	600	0
5/31/2024 14:14	29401	BELT_T1	7	3	-4	0.44	0.23	-0.21	0	0	0	0	0	0	0	0
5/31/2024 14:14	29402	BELT_T1	6	107	101	0.4	0.62	0.22	0	0	0	0	0	0	0	0
5/31/2024 14:14	60101	COCA_T1	3	3	0	0.37	0.37	0	0.49	0.47	0	0	0	0	0	0
5/31/2024 14:15	14602	SWHI_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/31/2024 14:15	62605	ENGL_T1	3	2	-1	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
5/31/2024 14:15	62607	ENGL_T1	1	2	1	0.1	0.1	0	-0.67	-0.63	0	0	0	0	0	0
5/31/2024 14:15	29401	BELT_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
5/31/2024 14:15	29402	BELT_T1	0	140	140	0	0.54	0.54	0	0	0	0	0	0	0	0
5/31/2024 14:15	14601	SWHI_T1	4	2	-2	0.2	0.2	0	0	0	0	0	0	0	0	0
5/31/2024 14:15	14603	SWHI_T1	7	8	1	0.43	0.31	-0.12	-0.87	-0.82	1	1	0	600	600	0
5/31/2024 14:15	62602	ENGL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/31/2024 14:16	14601	SWHI_T1	4	2	-2	0.2	0.2	0	-0.22	-0.26	0	0	0	0	0	0
5/31/2024 14:16	14603	SWHI_T1	7	8	1	0.43	0.31	-0.12	0	0	0	0	0	0	0	0
5/31/2024 14:16	63804	HEMP_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
5/31/2024 14:16	14602	SWHI_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/31/2024 14:16	63802	HEMP_T1	0	0	0	0	0	0	0.24	0.31	0	0	0	0	0	0
5/31/2024 14:16	63801	HEMP_T1	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
5/31/2024 14:17	14602	SWHI_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/31/2024 14:17	14601	SWHI_T1	4	2	-2	0.2	0.2	0	0	0	0	0	0	0	0	0
5/31/2024 14:17	14603	SWHI_T1	7	8	1	0.43	0.31	-0.12	-1.74	-1.64	2	2	0	1200	1200	0
5/31/2024 14:18	62607	ENGL_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
5/31/2024 14:18	52401	GRPA_T2	1	2	1	0.9	0.35	-0.55	0	0	0	0	0	0	0	0
5/31/2024 14:18	52403	GRPA_T2	6	19	13	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
5/31/2024 14:18	62602	ENGL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/31/2024 14:18	22404	MORG_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
5/31/2024 14:18	52402	GRPA_T2	23	18	-5	0.55	0.57	0.02	-0.77	-0.74	0	0	0	0	0	0
5/31/2024 14:18	62606	ENGL_T1	0	0	0	0	0	0	-0.48	-0.45	1	1	0	900	900	0
5/31/2024 14:18	62605	ENGL_T1	3	2	-1	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
5/31/2024 14:18	22405	MORG_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
5/31/2024 14:18	22401	MORG_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/31/2024 14:19	65601	QVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/31/2024 14:19	65604	QVIL_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
5/31/2024 14:21	42802	SELI_T1	0	0	0	0	0	0	-0.51	-0.47	1	1	0	900	900	0
5/31/2024 14:25	45902	AUBU_T1	3	3	0	1.43	1.3	-0.13	-0.74	-0.59	1	1	0	600	600	0
5/31/2024 14:25	62105	ELAN_T1	4	4	0	0.48	0.5	0.02	0.54	0.56	0	0	0	0	0	0
5/31/2024 14:26	62105	ELAN_T1	4	4	0	0.48	0.5	0.02	0.54	0.56	0	0	0	0	0	0
5/31/2024 14:26	45902	AUBU_T1	3	3	0	1.43	1.3	-0.13	0	0	0	0	0	0	0	0
5/31/2024 14:26	45901	AUBU_T1	0	0	0	0	0	0	1.87	1.84	0	0	0	0	0	0
5/31/2024 14:27	61801	EELI_T2	2	2	0	0.25	0.25	0	-0.49	-0.47	1	1	0	600	600	0
5/31/2024 14:27	61803	EELI_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
5/31/2024 14:28	21203	ECAR_T1	24	49	25	0.34	0.28	-0.06	0.87	0.84	0	0	0	0	0	0
5/31/2024 14:29	53902	HALI_T2	3	3	0	2.23	2.37	0.14	0	0	0	0	0	0	0	0
5/31/2024 14:29	14603	SWHI_T1	7	8	1	0.43	0.31	-0.12	-0.82	-0.9	1	1	0	600	600	0
5/31/2024 14:29	52403	GRPA_T2	6	19	13	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
5/31/2024 14:29	14602	SWHI_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
5/31/2024 14:29	14601	SWHI_T1	4	2	-2	0.2	0.2	0	0	0	0	0	0	0	0	0
5/31/2024 14:29	52402	GRPA_T2	23	18	-5	0.55	0.57	0.02	-0.74	-0.78	0	0	0	0	0	0
5/31/2024 14:29	52401	GRPA_T2	1	2	1	0.9	0.35	-0.55	0	0	0	0	0	0	0	0
5/31/2024 14:29	53901	HALI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
5/31/2024 14:29	53903	HALI_T2	10	11	1	0.78	0.77	-0.01	-0.11	-0.06	0	0	0	0	0	0
5/31/2024 14:31	25402	LAHA_T2	1	2	1	0.5	0.65	0.15	-0.23	-0.24	0	0	0	0	0	0
5/31/2024 14:31	46501	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 14:31	53901	HALI_T2	1	1	0	0.3	0.3	0	-0.88	-0.88	0	0	0	0	0	0
5/31/2024 14:31	46506	LOHA_T1	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
5/31/2024 14:31	53902	HALI_T2	3	3	0	2.27	2.33	0.06	0	0	0	0	0	0	0	0
5/31/2024 14:31	25404	LAHA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 14:31	46504	LOHA_T1	2	3	1	0.95	0.57	-0.38	0	0	0	0	0	0	0	0
5/31/2024 14:31	53903	HALI_T2	11	8	-3	0.76	0.95	0.19	0	0	0	0	0	0	0	0
5/31/2024 14:32	47101	MARL_T1	2	1	-1	0.3	0.3	0	-0.13	-0.17	0	0	0	0	0	0
5/31/2024 14:33	47104	MARL_T1	0	0	0	0	0	0	0.76	0.77	0	0	0	0	0	0
5/31/2024 14:33	47101	MARL_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
5/31/2024 14:34	47101	MARL_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
5/31/2024 14:34	47104	MARL_T1	0	0	0	0	0	0	-0.76	-0.77	0	0	0	0	0	0
5/31/2024 14:36	58401	MORO_T1	1	1	0	0.3	0.1	-0.2	-0.63	-0.6	1	1	0	600	600	0
5/31/2024 14:36	42902	MIDD_T2	11	31	20	0.3	0.29	-0.01	0.43	0.36	0	0	0	0	0	0
5/31/2024 14:36	42901	MIDD_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
5/31/2024 14:36	42903	MIDD_T2	3	4	1	1.43	1.38	-0.05	0	0	0	0	0	0	0	0
5/31/2024 14:37	67203	TEHI_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
5/31/2024 14:37	67201	TEHI_T1	0	0	0	0	0	0	-0.1	0.01	2	2	0	1500	1500	0
5/31/2024 14:37	43802	SWIL_T1	1	2	1	0.6	0.4	-0.2	-0.14	-0.15	1	1	0	600	600	0
5/31/2024 14:37	43801	SWIL_T1	1	2	1	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
5/31/2024 14:38	67603	WARW_T1	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
5/31/2024 14:38	67605	WARW_T1	13	15	2	0.51	0.55	0.04	-0.91	-0.87	0	0	0	0	0	0
5/31/2024 14:41	24603	VARD_T2	30	42	12	0.66	0.53	-0.13	0	0	0	0	0	0	0	0
5/31/2024 14:41	24602	VARD_T2	408	498	90	0.55	0.83	0.28	-0.68	-0.78	0	0	0	0	0	0
5/31/2024 14:42	23901	EFMO_T2	3	5	2	0.17	0.24	0.07	0	0.05	0	0	0	0	0	0
5/31/2024 14:42	23902	EFMO_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
5/31/2024 14:45	64204	KINZ_T1	2	3	1	0.25	0.53	0.28	0	0	0	0	0	0	0	0
5/31/2024 14:45	64202	KINZ_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
5/31/2024 14:45	64203	KINZ_T1	0	0	0	0	0	0	1.26	1.2	2	2	0	900	900	0
5/31/2024 14:46	60605	NCOL_T2	3	2	-1	0.23	0.25	0.02	-1.11	-1.13	0	0	0	0	0	0
5/31/2024 14:46	41801	GOCI_T2	52	173	121	0.28	0.36	0.08	0	0	0	0	0	0	0	0
5/31/2024 14:46	61801	EELI_T2	1	1	0	0.3	0.2	-0.1	-0.47	-0.46	1	1	0	600	600	0
5/31/2024 14:46	61803	EELI_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/31/2024 14:48	48301	ORWI_T1	2	2	0	5.6	5.7	0.1	0	0	1	1	0	900	900	0
5/31/2024 14:48	29402	BELT_T1	133	101	-32	0.53	0.64	0.11	0	0	0	0	0	0	0	0
5/31/2024 14:48	29401	BELT_T1	3	3	0	0.47	0.23	-0.24	0	0	0	0	0	0	0	0
5/31/2024 14:49	48301	ORWI_T1	2	2	0	5.6	5.7	0.1	0	0	1	1	0	900	900	0
5/31/2024 14:50	42201	SHEN_T2	2	2	0	0.85	0.9	0.05	0.71	0.7	0	0	0	0	0	0
5/31/2024 14:50	13503	MCMI_T2	25	14	-11	0.57	0.56	-0.01	-0.01	0.03	0	0	0	0	0	0
5/31/2024 14:51	58401	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 14:51	13503	MCMI_T2	25	14	-11	0.57	0.56	-0.01	-0.01	0.03	0	0	0	0	0	0
5/31/2024 14:51	58402	MORO_T1	0	0	0	0	0	0	-0.16	-0.16	2	2	0	1500	1500	0
5/31/2024 14:52	48302	ORWI_T2	2	2	0	1.15	1.3	0.15	0.18	0.17	0	0	0	0	0	0
5/31/2024 14:52	48303	ORWI_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/31/2024 14:53	67204	TEHI_T2	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
5/31/2024 14:54	43104	SMIL_T2	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
5/31/2024 14:54	43105	SMIL_T2	3	3	0	0.47	0.57	0.1	0	0	0	0	0	0	0	0
5/31/2024 14:54	67204	TEHI_T2	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
5/31/2024 14:54	43101	SMIL_T2	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
5/31/2024 14:54	43103	SMIL_T2	11	15	4	0.36	0.4	0.04	0	0	0	0	0	0	0	0
5/31/2024 14:54	43108	SMIL_T2	0	0	0	0	0	0	-0.87	-0.93	1	1	0	1200	1200	0
5/31/2024 14:54	43102	SMIL_T2	6	7	1	0.48	0.51	0.03	0	0	0	0	0	0	0	0
5/31/2024 14:56	42201	SHEN_T2	2	2	0	0.85	0.9	0.05	0.7	0.71	0	0	0	0	0	0
5/31/2024 14:59	67605	WARW_T1	13	16	3	0.52	0.64	0.12	-0.87	-0.89	0	0	0	0	0	0
5/31/2024 14:59	67603	WARW_T1	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
5/31/2024 15:00	40901	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 15:00	40902	JESH_T1	2	1	-1	0.35	0.3	-0.05	-0.81	-0.78	0	0	0	0	0	0
5/31/2024 15:00	67605	WARW_T1	15	16	1	0.53	0.63	0.1	-0.87	-0.89	0	0	0	0	0	0
5/31/2024 15:00	67603	WARW_T1	2	2	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
5/31/2024 15:01	64204	KINZ_T1	3	2	-1	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
5/31/2024 15:01	64203	KINZ_T1	0	0	0	0	0	0	1.2	1.63	2	1	-1	900	600	-300
5/31/2024 15:01	58402	MORO_T1	0	0	0	0	0	0	-0.16	-0.18	2	2	0	1500	1500	0
5/31/2024 15:01	64202	KINZ_T1	4	3	-1	0.33	0.37	0.04	0	0	0	0	0	0	0	0
5/31/2024 15:02	46102	MACI_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
5/31/2024 15:03	40901	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 15:03	51402	LYKE_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
5/31/2024 15:03	40902	JESH_T1	2	1	-1	0.35	0.3	-0.05	-0.41	-0.39	0	0	0	0	0	0
5/31/2024 15:03	51401	LYKE_T1	0	0	0	0	0	0	0.36	0.4	0	0	0	0	0	0
5/31/2024 15:03	46101	MACI_T2	0	0	0	0	0	0	0.05	-0.09	1	1	0	1200	1200	0
5/31/2024 15:04	50502	MECH_T1	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
5/31/2024 15:04	50506	MECH_T1	1	1	0	1.5	1.8	0.3	0	0	0	0	0	0	0	0
5/31/2024 15:04	50503	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 15:04	50501	MECH_T1	5	5	0	1.04	1.14	0.1	-0.2	-0.77	0	0	0	0	0	0
5/31/2024 15:04	40902	JESH_T1	2	1	-1	0.35	0.3	-0.05	-0.41	-0.39	0	0	0	0	0	0
5/31/2024 15:04	40901	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 15:04	50505	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 15:05	67204	TEHI_T2	0	1	1	0	0.1	0.1	-0.02	-0.04	0	0	0	0	0	0
5/31/2024 15:05	44201	POIN_T1	68	225	157	0.18	0.24	0.06	-4.05	-4.44	4	4	0	4200	4200	0
5/31/2024 15:05	51402	LYKE_T1	2	2	0	0.25	0.15	-0.1	-1.88	-1.42	2	1	-1	1200	600	-600
5/31/2024 15:06	43104	SMIL_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
5/31/2024 15:06	43105	SMIL_T2	3	3	0	0.57	0.47	-0.1	0	0	0	0	0	0	0	0
5/31/2024 15:06	43102	SMIL_T2	6	7	1	0.55	0.51	-0.04	0	0	0	0	0	0	0	0
5/31/2024 15:06	43103	SMIL_T2	15	16	1	0.4	0.42	0.02	0	0	0	0	0	0	0	0
5/31/2024 15:06	43101	SMIL_T2	2	1	-1	0.75	1.3	0.55	-0.59	-0.63	0	0	0	0	0	0
5/31/2024 15:06	58402	MORO_T1	0	0	0	0	0	0	-0.16	-0.18	2	2	0	1500	1500	0
5/31/2024 15:07	13503	MCMI_T2	13	12	-1	0.58	0.62	0.04	0.03	-0.01	0	0	0	0	0	0
5/31/2024 15:07	54201	PENN_T1	10	10	0	0.86	0.76	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/31/2024 15:07	17804	GILB_T2	7	7	0	0.73	0.61	-0.12	0	0	0	0	0	0	0	0
5/31/2024 15:07	17805	GILB_T2	4	4	0	0.68	0.43	-0.25	0.45	0.44	0	0	0	0	0	0
5/31/2024 15:07	54203	PENN_T1	20	20	0	0.65	0.58	-0.07	1.13	1.11	0	0	0	0	0	0
5/31/2024 15:08	67804	WLAN_T1	9	7	-2	0.24	0.2	-0.04	-0.88	-0.88	0	0	0	0	0	0
5/31/2024 15:08	64201	POIN_T1	68	225	157	0.18	0.24	0.06	-4.44	-4.31	4	4	0	4200	4200	0
5/31/2024 15:08	67803	WLAN_T1	12	10	-2	0.35	0.33	-0.02	-1.4	-1.36	0	0	0	0	0	0
5/31/2024 15:09	43102	SMIL_T2	6	7	1	0.55	0.51	-0.04	-1.34	-1.3	2	2	0	1200	1200	0
5/31/2024 15:09	43104	SMIL_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
5/31/2024 15:09	67803	WLAN_T1	12	10	-2	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
5/31/2024 15:09	67204	TEHI_T2	0	1	1	0	0.1	0.1	-0.04	0	0	0	0	0	0	0
5/31/2024 15:09	43103	SMIL_T2	15	16	1	0.4	0.42	0.02	0	0	0	0	0	0	0	0
5/31/2024 15:09	67804	WLAN_T1	9	7	-2	0.24	0.2	-0.04	-0.88	-0.88	0	0	0	0	0	0
5/31/2024 15:09	67805	WLAN_T1	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
5/31/2024 15:09	43101	SMIL_T2	2	1	-1	0.75	1.3	0.55	0	0	0	0	0	0	0	0
5/31/2024 15:09	43105	SMIL_T2	3	3	0	0.57	0.47	-0.1	0	0	0	0	0	0	0	0
5/31/2024 15:10	43103	SMIL_T2	15	16	1	0.4	0.42	0.02	0	0	0	0	0	0	0	0
5/31/2024 15:10	43101	SMIL_T2	2	1	-1	0.75	1.3	0.55	0	0	0	0	0	0	0	0
5/31/2024 15:10	67804	WLAN_T1	9	7	-2	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
5/31/2024 15:10	67803	WLAN_T1	12	10	-2	0.35	0.33	-0.02	-0.7	-0.68	0	0	0	0	0	0
5/31/2024 15:10	56802	BENV_T2	17	14	-3	0.52	0.56	0.04	-0.44	-0.46	0	0	0	0	0	0
5/31/2024 15:10	43105	SMIL_T2	3	3	0	0.57	0.47	-0.1	0	0	0	0	0	0	0	0
5/31/2024 15:10	56803	BENV_T1	6	5	-1	0.62	0.56	-0.06	0	0	0	0	0	0	0	0
5/31/2024 15:10	43102	SMIL_T2	6	7	1	0.55	0.51	-0.04	0	0	0	0	0	0	0	0
5/31/2024 15:10	43104	SMIL_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
5/31/2024 15:10	43108	SMIL_T2	0	0	0	0	0	0	-0.93	-0.95	1	1	0	1200	1200	0
5/31/2024 15:10	56801	BENV_T1	14	13	-1	0.79	0.7	-0.09	-0.98	-0.25	3	3	0	1800	1800	0
5/31/2024 15:11	56801	BENV_T1	14	13	-1	0.79	0.7	-0.09	-0.33	-0.08	1	1	0	600	600	0
5/31/2024 15:11	67802	WLAN_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
5/31/2024 15:11	56803	BENV_T1	6	5	-1	0.62	0.56	-0.06	0	0	0	0	0	0	0	0
5/31/2024 15:11	67805	WLAN_T1	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
5/31/2024 15:11	57006	WHHI_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
5/31/2024 15:11	57003	WHHI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
5/31/2024 15:11	67803	WLAN_T1	12	10	-2	0.35	0.33	-0.02	-0.7	-0.68	0	0	0	0	0	0
5/31/2024 15:11	26603	BROO_T1	0	0	0	0	0	0	0.48	0.41	0	0	0	0	0	0
5/31/2024 15:11	67804	WLAN_T1	9	7	-2	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
5/31/2024 15:11	57001	WHHI_T2	0	0	0	0	0	0	-0.05	-0.06	1	1	0	900	900	0
5/31/2024 15:12	67804	WLAN_T1	9	7	-2	0.24	0.2	-0.04	-1.76	-1.76	0	0	0	0	0	0
5/31/2024 15:12	67803	WLAN_T1	12	10	-2	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
5/31/2024 15:12	56803	BENV_T1	6	5	-1	0.62	0.56	-0.06	0	0	0	0	0	0	0	0
5/31/2024 15:12	56801	BENV_T1	14	13	-1	0.79	0.7	-0.09	-0.65	-0.17	2	2	0	1200	1200	0
5/31/2024 15:13	56801	BENV_T1	14	13	-1	0.79	0.7	-0.09	-0.33	-0.08	1	1	0	600	600	0
5/31/2024 15:13	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 15:13	56803	BENV_T1	6	5	-1	0.62	0.56	-0.06	0	0	0	0	0	0	0	0
5/31/2024 15:14	56801	BENV_T1	14	13	-1	0.79	0.7	-0.09	-0.33	-0.08	1	1	0	600	600	0
5/31/2024 15:14	56803	BENV_T1	6	5	-1	0.62	0.56	-0.06	0	0	0	0	0	0	0	0
5/31/2024 15:16	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 15:16	62605	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/31/2024 15:16	62606	ENGL_T1	0	0	0	0	0	0	-0.53	-0.41	1	1	0	900	900	0
5/31/2024 15:16	62607	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 15:17	65503	MOJO_T2	3	2	-1	0.77	0.8	0.03	0	0	0	0	0	0	0	0
5/31/2024 15:17	65502	MOJO_T2	0	0	0	0	0	0	-1.03	-1.06	1	1	0	900	900	0
5/31/2024 15:18	64801	MONE_T2	2	15	13	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
5/31/2024 15:18	64802	MONE_T2	29	50	21	0.31	0.29	-0.02	0.25	0.24	0	0	0	0	0	0
5/31/2024 15:21	67204	TEHI_T2	0	1	1	0	0.1	0.1	-0.04	0	0	0	0	0	0	0
5/31/2024 15:21	65503	MOJO_T2	3	2	-1	0.77	0.8	0.03	0	0	0	0	0	0	0	0
5/31/2024 15:21	65502	MOJO_T2	0	0	0	0	0	0	-1.03	-1.06	1	1	0	900	900	0
5/31/2024 15:22	42503	ALTA_T2	2	2	0	0.25	0.2	-0.05	-0.62	-0.62	0	0	0	0	0	0
5/31/2024 15:22	67401	WAKE_T2	3	63	60	0.6	0.23	-0.37	-1.64	-1.78	0	0	0	0	0	0
5/31/2024 15:22	67402	WAKE_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
5/31/2024 15:22	43301	WATS_T2	3	3	0	0.53	0.6	0.07	0	0	1	1	0	900	900	0
5/31/2024 15:22	42501	ALTA_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
5/31/2024 15:23	65702	RVIL_T2	4	3	-1	0.2	0.13	-0.07	-0.66	-0.67	1	1	0	600	600	0
5/31/2024 15:23	42501	ALTA_T2	1	1	0	1	0.7	-0.3	0.7	0.64	2	2	0	1200	1200	0
5/31/2024 15:23	42503	ALTA_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
5/31/2024 15:24	64101	REFR_T1	2	2	0	0.55	0.55	0	0.07	0.04	0	0	0	0	0	0
5/31/2024 15:24	42501	ALTA_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
5/31/2024 15:24	43301	WATS_T2	3	3	0	0.53	0.6	0.07	0	0	2	2	0	1800	1800	0
5/31/2024 15:24	42503	ALTA_T2	2	2	0	0.25	0.2	-0.05	-0.62	-0.65	0	0	0	0	0	0
5/31/2024 15:25	67204	TEHI_T2	0	1	1	0	0.1	0.1	0	-0.01	0	0	0	0	0	0
5/31/2024 15:25	27201	YATE_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
5/31/2024 15:25	60802	BUCK_T2	0	4	4	0	0.15	0.15	0.49	0.6	0	0	0	0	0	0
5/31/2024 15:25	27204	YATE_T1	2	4	2	0.15	0.2	0.05	0	0	0	0	0	0	0	0
5/31/2024 15:25	43301	WATS_T2	3	3	0	0.53	0.6	0.07	0	0	2	2	0	1800	1800	0
5/31/2024 15:26	55102	WERT_T2	0	0	0	0	0	0	-0.64	-0.63	2	2	0	1200	1200	0
5/31/2024 15:27	26603	BROO_T1	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
5/31/2024 15:28	24702	FLND_T2	3	4	1	1.03	1.15	0.12	-0.12	-0.02	1	1	0	1200	1200	0
5/31/2024 15:29	40901	JESH_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/31/2024 15:29	40902	JESH_T1	1	2	1	0.2	0.2	0	-0.45	-0.45	0	0	0	0	0	0
5/31/2024 15:30	52402	GRPA_T2	11	26	15	0.51	0.41	-0.1	0	0	0	0	0	0	0	0
5/31/2024 15:30	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 15:30	52403	GRPA_T2	1	2	1	0.2	0.8	0.6	0.3	0.29	0	0	0	0	0	0
5/31/2024 15:32	40901	JESH_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
5/31/2024 15:32	40902	JESH_T1	1	2	1	0.3	0.1	-0.2	-0.45	-0.45	0	0	0	0	0	0
5/31/2024 15:32	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 15:32	52402	GRPA_T2	11	26	15	0.51	0.41	-0.1	0	0	0	0	0	0	0	0
5/31/2024 15:32	52403	GRPA_T2	1	2	1	0.2	0.8	0.6	0.3	0.29	0	0	0	0	0	0
5/31/2024 15:33	13502	MCMI_T1	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
5/31/2024 15:33	13501	MCMI_T1	2	0	-2	0.25	0	-0.25	0.25	0.23	0	0	0	0	0	0
5/31/2024 15:37	59201	THOM_T1	12	15	3	0.18	0.32	0.14	0	0	0	0	0	0	0	0
5/31/2024 15:37	59202	THOM_T1	62	139	77	0.31	0.23	-0.08	0	0	0	0	0	0	0	0
5/31/2024 15:37	13502	MCMI_T1	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
5/31/2024 15:37	13501	MCMI_T1	2	0	-2	0.25	0	-0.25	0.25	0.23	0	0	0	0	0	0
5/31/2024 15:40	43301	WATS_T2	3	4	1	0.6	0.43	-0.17	0	0	1	1	0	900	900	0
5/31/2024 15:40	64101	REFR_T1	1	2	1	0.7	0.5	-0.2	0.04	0.05	0	0	0	0	0	0
5/31/2024 15:41	43301	WATS_T2	3	4	1	0.6	0.43	-0.17	0	0	1	1	0	900	900	0
5/31/2024 15:43	62105	ELAN_T1	1	0	-1	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
5/31/2024 15:43	63501	HEID_TBK1-2	1	1	0	0.1	0.1	0	0.81	0.81	0	0	0	0	0	0
5/31/2024 15:43	26603	BROO_T1	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
5/31/2024 15:43	52403	GRPA_T2	1	2	1	0.2	0.8	0.6	0.29	0.35	0	0	0	0	0	0
5/31/2024 15:43	62102	ELAN_T1	0	0	0	0	0	0	0.94	0.94	0	0	0	0	0	0
5/31/2024 15:43	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 15:43	52402	GRPA_T2	11	26	15	0.51	0.41	-0.1	0	0	0	0	0	0	0	0
5/31/2024 15:44	62106	ELAN_T1	0	0	0	0	0	0	0.05	0.07	0	0	0	0	0	0
5/31/2024 15:44	62602	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 15:44	62105	ELAN_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
5/31/2024 15:44	62605	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/31/2024 15:44	62607	ENGL_T1	1	0	-1	0.1	0	-0.1	-0.61	-0.6	0	0	0	0	0	0
5/31/2024 15:45	52402	GRPA_T2	13	26	13	0.45	0.44	-0.01	0	0	0	0	0	0	0	0
5/31/2024 15:45	63501	HEID_TBK1-2	1	0	-1	0.1	0	-0.1	0.81	0.81	0	0	0	0	0	0
5/31/2024 15:45	52403	GRPA_T2	1	1	0	0.8	0.2	-0.6	0.29	0.35	0	0	0	0	0	0
5/31/2024 15:45	52401	GRPA_T2	0	1	1	0	3	3	0	0	0	0	0	0	0	0
5/31/2024 15:46	20603	GRWO_T2	1	4	3	0.1	0.43	0.33	0.47	0.46	0	0	0	0	0	0
5/31/2024 15:46	20601	GRWO_T2	1	2	1	0.1	0.15	0.05	-0.05	0.04	0	0	0	0	0	0
5/31/2024 15:47	44703	MUNC_T2	2	3	1	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
5/31/2024 15:47	44702	MUNC_T2	5	7	2	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
5/31/2024 15:47	44701	MUNC_T2	2	2	0	0.65	0.35	-0.3	-1.31	-1.31	0	0	0	0	0	0
5/31/2024 15:49	44703	MUNC_T2	2	3	1	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
5/31/2024 15:49	44701	MUNC_T2	2	2	0	0.65	0.35	-0.3	-1.31	-1.31	0	0	0	0	0	0
5/31/2024 15:49	44702	MUNC_T2	5	7	2	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
5/31/2024 15:56	67502	WEWI_T2	10	8	-2	0.42	0.43	0.01	0	0	0	0	0	0	0	0
5/31/2024 15:56	67503	WEWI_T2	2	2	0	0.25	0.15	-0.1	0.07	0.09	0	0	0	0	0	0
5/31/2024 15:56	40201	BEGA_T2	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
5/31/2024 15:57	40201	BEGA_T2	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
5/31/2024 15:58	24101	EHAZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
5/31/2024 15:58	24105	EHAZ_T1	4	4	0	5.95	6	0.05	0	0	0	0	0	0	0	0
5/31/2024 15:58	24102	EHAZ_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
5/31/2024 15:58	24104	EHAZ_T1	2	1	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
5/31/2024 16:02	64202	KINZ_T1	3	3	0	0.63	0.2	-0.43	0	0	0	0	0	0	0	0
5/31/2024 16:02	64203	KINZ_T1	0	0	0	0	0	0	0.71	0.33	1	1	0	600	600	0
5/31/2024 16:02	64201	KINZ_T1	5	5	0	0.16	0.28	0.12	0	0	0	0	0	0	0	0
5/31/2024 16:02	64204	KINZ_T1	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
5/31/2024 16:05	64202	KINZ_T1	3	3	0	0.63	0.2	-0.43	0	0	0	0	0	0	0	0
5/31/2024 16:05	64204	KINZ_T1	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
5/31/2024 16:05	64201	KINZ_T1	5	5	0	0.16	0.28	0.12	0	0	0	0	0	0	0	0
5/31/2024 16:05	64203	KINZ_T1	0	0	0	0	0	0	0.71	0.33	1	1	0	600	600	0
5/31/2024 16:06	42001	MNVL_T2	1	0	-1	2.1	2.3	0.2	0	0	0	0	0	0	0	0
5/31/2024 16:06	42001	MNVL_T2	3	2	-1	0.53	0.6	0.07	0.23	0.25	0	0	0	0	0	0
5/31/2024 16:10	10805	CHHI_T2	1	1	0	7.6	8.2	0.6	-0.75	-0.7	1	1	0	600	600	0
5/31/2024 16:15	64201	KINZ_T1	3	8	5	0.33	0.33	0	0	0	0	0	0	0	0	0
5/31/2024 16:15	64203	KINZ_T1	0	0	0	0	0	0	0.33	0.83	1	0	-1	600	0	-600
5/31/2024 16:15	64202	KINZ_T1	3	3	0	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
5/31/2024 16:15	64204	KINZ_T1	2	12	10	0.75	0.23	-0.52	0	0	0	0	0	0	0	0
5/31/2024 16:16	66502	SMAN_T2	0	0	0	0	0	0	0.26	0.16	0	0	0	0	0	0
5/31/2024 16:18	64202	KINZ_T1	3	3	0	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
5/31/2024 16:18	64204	KINZ_T1	2	12	10	0.75	0.23	-0.52	0	0	0	0	0	0	0	0
5/31/2024 16:18	64203	KINZ_T1	0	0	0	0	0	0	0.33	0.83	1	0	-1	600	0	-600
5/31/2024 16:18	64201	KINZ_T1	3	8	5	0.33	0.33	0	0	0	0	0	0	0	0	0
5/31/2024 16:30	49804	UNIV_T1	0	0	0	0	0	0	0.95	0.74	0	0	0	0	0	0
5/31/2024 16:30	49803	UNIV_T1	0	14	14	0	0.12	0.12	0	0	0	0	0	0	0	0
5/31/2024 16:31	49803	UNIV_T1	0	14	14	0	0.12	0.12	0	0	0	0	0	0	0	0
5/31/2024 16:31	49804	UNIV_T1	0	0	0	0	0	0	0.95	0.74	0	0	0	0	0	0
5/31/2024 16:33	59301	MCAL_T1	3	3	0	0.67	0.63	-0.04	-1.07	-1.06	0	0	0	0	0	0
5/31/2024 16:35	49804	UNIV_T1	0	0	0	0	0	0	0.95	0.74	0	0	0	0	0	0
5/31/2024 16:35	49803	UNIV_T1	0	14	14	0	0.12	0.12	0	0	0	0	0	0	0	0
5/31/2024 16:40	55101	WERT_T1	0	0	0	0	0	0	-1.03	-1.07	2	2	0	1500	1500	0
5/31/2024 16:43	10805	CHHI_T2	1	1	0	8.7	8.3	-0.4	-0.82	-0.75	1	1	0	600	600	0
5/31/2024 16:46	26703	HEMI_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	600	600	0
5/31/2024 16:48	25402	LAHA_T2	0	0	0	0	0	0	-0.39	-0.43	0	0	0	0	0	0
5/31/2024 16:50	50701	SMEC_T1	2	0	-2	0.2	0	-0.2	-0.25	-0.27	1	1	0	900	900	0
5/31/2024 16:53	43301	WATS_T2	4	4	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
5/31/2024 16:53	43302	WATS_T2	4	5	1	0.23	0.52	0.29	0	0	2	2	0	1800	1800	0
5/31/2024 16:53	43304	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 16:54	43302	WATS_T2	4	5	1	0.23	0.52	0.29	0	0	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/31/2024 16:54	43301	WATS_T2	4	4	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
5/31/2024 16:54	43304	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 16:54	50701	SMEC_T1	2	0	-2	0.2	0	-0.2	-0.27	-0.16	1	1	0	900	900	0
5/31/2024 16:55	43302	WATS_T2	4	5	1	0.23	0.52	0.29	0	0	0	0	0	0	0	0
5/31/2024 16:55	43304	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 16:55	29402	BELT_T1	55	70	15	0.46	0.51	0.05	0	0	0	0	0	0	0	0
5/31/2024 16:55	43301	WATS_T2	4	4	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
5/31/2024 16:57	29402	BELT_T1	55	70	15	0.46	0.51	0.05	0	0	0	0	0	0	0	0
5/31/2024 16:58	43302	WATS_T2	4	5	1	0.23	0.52	0.29	0	0	2	2	0	1800	1800	0
5/31/2024 16:58	29402	BELT_T1	55	70	15	0.46	0.51	0.05	0	0	0	0	0	0	0	0
5/31/2024 16:58	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 16:58	43301	WATS_T2	4	4	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
5/31/2024 16:58	43304	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 16:59	29402	BELT_T1	55	70	15	0.46	0.51	0.05	0	0	0	0	0	0	0	0
5/31/2024 16:59	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 17:02	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 17:02	29402	BELT_T1	59	73	14	0.47	0.51	0.04	0	0	0	0	0	0	0	0
5/31/2024 17:02	63401	HONY_T1	0	0	0	0	0	0	0.29	0.38	2	2	0	1200	1200	0
5/31/2024 17:03	64801	MONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 17:03	64802	MONE_T2	3	2	-1	0.17	0.15	-0.02	0.25	0.26	0	0	0	0	0	0
5/31/2024 17:12	21704	SUBU_T1	0	0	0	0	0	0	-2.2	-2.17	2	2	0	2400	2400	0
5/31/2024 17:12	21705	SUBU_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
5/31/2024 17:23	45802	HEGI_T2	40	46	6	0.73	1.17	0.44	0.66	0.87	1	1	0	300	300	0
5/31/2024 17:29	62105	ELAN_T1	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
5/31/2024 17:32	65001	NEFF_T2	0	0	0	0	0	0	-0.55	-0.68	1	1	0	1200	1200	0
5/31/2024 17:34	63401	HONY_T1	0	0	0	0	0	0	0.08	0.07	1	1	0	600	600	0
5/31/2024 17:38	42201	SHEN_T2	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
5/31/2024 17:42	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 17:42	21206	ECAR_T2	1	7	6	7.7	8.1	0.4	0.03	-0.12	0	0	0	0	0	0
5/31/2024 17:44	21206	ECAR_T2	1	7	6	7.7	8.1	0.4	0.03	-0.12	0	0	0	0	0	0
5/31/2024 17:44	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 17:48	43202	MVIL_T2	61	86	25	0.42	0.65	0.23	-0.63	-0.63	0	0	0	0	0	0
5/31/2024 17:49	13501	MCMI_T1	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
5/31/2024 17:50	43202	MVIL_T2	61	86	25	0.42	0.65	0.23	-0.63	-0.63	0	0	0	0	0	0
5/31/2024 17:52	43202	MVIL_T2	61	86	25	0.42	0.65	0.23	-0.63	-0.63	0	0	0	0	0	0
5/31/2024 17:56	64101	REFR_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
5/31/2024 18:01	63304	GREE_T1	0	0	0	0	0	0	-1.23	-1.28	0	0	0	0	0	0
5/31/2024 18:02	63304	GREE_T1	0	0	0	0	0	0	-1.23	-1.28	0	0	0	0	0	0
5/31/2024 18:07	64101	REFR_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
5/31/2024 18:09	21705	SUBU_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
5/31/2024 18:09	21703	SUBU_T1	0	0	0	0	0	0	0.7	0.73	0	0	0	0	0	0
5/31/2024 18:11	45902	AUBU_T1	0	0	0	0	0	0	-0.85	-0.75	1	1	0	600	600	0
5/31/2024 18:13	62104	ELAN_T1	0	0	0	0	0	0	0.98	0.8	4	4	0	3000	3000	0
5/31/2024 18:14	12006	HATF_T1	0	0	0	0	0	0	0.29	0.27	1	1	0	1200	1200	0
5/31/2024 18:14	62104	ELAN_T1	0	0	0	0	0	0	0.49	0.4	2	2	0	1500	1500	0
5/31/2024 18:14	12002	HATF_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
5/31/2024 18:14	63801	HEMP_T1	0	0	0	0	0	0	-0.78	-0.92	1	1	0	900	900	0
5/31/2024 18:14	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
5/31/2024 18:17	42903	MIDD_T2	24	45	21	0.4	0.31	-0.09	0	0	0	0	0	0	0	0
5/31/2024 18:17	20603	GRWO_T2	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
5/31/2024 18:17	42901	MIDD_T2	141	191	50	0.21	0.3	0.09	0	0	0	0	0	0	0	0
5/31/2024 18:17	42902	MIDD_T2	59	82	23	0.42	0.48	0.06	-0.43	-0.39	0	0	0	0	0	0
5/31/2024 18:18	42901	MIDD_T2	141	191	50	0.21	0.3	0.09	0	0	0	0	0	0	0	0
5/31/2024 18:18	65205	PRIN_T1	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
5/31/2024 18:18	42902	MIDD_T2	59	82	23	0.42	0.48	0.06	-0.43	-0.39	0	0	0	0	0	0
5/31/2024 18:18	42903	MIDD_T2	24	45	21	0.4	0.31	-0.09	0	0	0	0	0	0	0	0
5/31/2024 18:24	23001	SAIO_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
5/31/2024 18:26	67702	WERN_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
5/31/2024 18:29	29402	BELT_T1	13	50	37	0.18	0.4	0.22	0	0	0	0	0	0	0	0
5/31/2024 18:29	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 18:29	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 18:29	21206	ECAR_T2	1	1	0	8	8	0	0	0.05	0	0	0	0	0	0
5/31/2024 18:31	54505	ENOL_T2	1	1	0	0.2	0.3	0.1	-1.1	-1.04	1	1	0	600	600	0
5/31/2024 18:32	64902	MILL_T2	0	0	0	0	0	0	-0.14	-0.09	0	0	0	0	0	0
5/31/2024 18:32	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 18:32	21206	ECAR_T2	1	2	1	8	8	0	0	0.05	0	0	0	0	0	0
5/31/2024 18:35	65603	QVIL_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
5/31/2024 18:36	64902	MILL_T2	0	0	0	0	0	0	-0.14	-0.09	0	0	0	0	0	0
5/31/2024 18:38	43301	WATS_T2	11	8	-3	0.18	0.21	0.03	0	0	0	0	0	0	0	0
5/31/2024 18:38	43302	WATS_T2	4	4	0	0.68	0.4	-0.28	0	0	2	2	0	1800	1800	0
5/31/2024 18:39	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 18:39	43302	WATS_T2	4	4	0	0.68	0.4	-0.28	0	0	0	0	0	0	0	0
5/31/2024 18:39	43301	WATS_T2	11	8	-3	0.18	0.21	0.03	0	0	0	0	0	0	0	0
5/31/2024 18:41	59102	WALK_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
5/31/2024 18:41	59101	WALK_T2	0	0	0	0	0	0	-0.36	-0.31	0	0	0	0	0	0
5/31/2024 18:41	24202	PROV_T4	1	1	0	3.3	8.7	5.4	-0.41	-0.42	1	1	0	1200	1200	0
5/31/2024 18:44	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 18:44	29402	BELT_T1	49	42	-7	0.41	0.3	-0.11	0	0	0	0	0	0	0	0
5/31/2024 18:46	42501	ALTA_T2	1	0	-1	0.1	0	-0.1	0.26	0.24	1	1	0	600	600	0
5/31/2024 18:50	64902	MILL_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
5/31/2024 18:51	59102	WALK_T2	2	7	5	0.15	0.16	0.01	0	0	0	0	0	0	0	0
5/31/2024 18:51	59101	WALK_T2	0	0	0	0	0	0	-0.36	-0.31	0	0	0	0	0	0
5/31/2024 18:55	29402	BELT_T1	40	52	12	0.52	0.54	0.02	0	0	0	0	0	0	0	0
5/31/2024 18:55	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 18:56	29402	BELT_T1	40	52	12	0.52	0.54	0.02	0	0	0	0	0	0	0	0
5/31/2024 18:56	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 18:57	58001	WCAR_T1	3	4	1	0.63	1.1	0.47	0	0	0	0	0	0	0	0
5/31/2024 18:57	58003	WCAR_T1	5	12	7	0.58	0.29	-0.29	0.73	0.72	0	0	0	0	0	0
5/31/2024 18:58	43302	WATS_T2	3	4	1	0.17	0.45	0.28	0	0	2	2	0	1800	1800	0
5/31/2024 18:58	43301	WATS_T2	8	9	1	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
5/31/2024 19:00	64503	LAVI_T1	0	0	0	0	0	0	-0.73	-0.68	2	2	0	2400	2400	0
5/31/2024 19:01	64503	LAVI_T1	0	0	0	0	0	0	-0.36	-0.34	1	1	0	1200	1200	0
5/31/2024 19:02	14202	EALL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 19:02	14204	EALL_T2	0	0	0	0	0	0	-0.53	-0.5	0	0	0	0	0	0
5/31/2024 19:03	65003	NEFF_T2	4	17	13	0.18	0.17	-0.01	-1.74	-1.79	2	2	0	1800	1800	0
5/31/2024 19:03	65001	NEFF_T2	0	64	64	0	0.14	0.14	0	0	0	0	0	0	0	0
5/31/2024 19:03	64503	LAVI_T1	0	0	0	0	0	0	-0.36	-0.34	1	1	0	1200	1200	0
5/31/2024 19:07	59101	WALK_T2	0	1	1	0	0.1	0.1	-0.31	-0.41	0	0	0	0	0	0
5/31/2024 19:07	59102	WALK_T2	1	54	53	0.1	0.19	0.09	0	0	0	0	0	0	0	0
5/31/2024 19:09	61103	BERK_T5	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
5/31/2024 19:12	12002	HATF_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
5/31/2024 19:12	12006	HATF_T1	0	0	0	0	0	0	0.08	0.04	1	1	0	1200	1200	0
5/31/2024 19:13	40801	EXCH_T2	2	2	0	0.25	0.3	0.05	-0.29	-0.34	1	1	0	1200	1200	0
5/31/2024 19:13	40802	EXCH_T2	3	5	2	0.1	0.1	0	0	0	0	0	0	0	0	0
5/31/2024 19:16	12601	MACA_T1	0	0	0	0	0	0	0.97	1	0	0	0	0	0	0
5/31/2024 19:18	64501	LAVI_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
5/31/2024 19:22	42204	SHEN_T2	0	0	0	0	0	0	-0.68	-0.7	1	1	0	1200	1200	0
5/31/2024 19:26	11104	EGYP_T1	5	5	0	0.8	0.22	-0.58	0	0	0	0	0	0	0	0
5/31/2024 19:26	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
5/31/2024 19:26	11102	EGYP_T1	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
5/31/2024 19:28	40802	EXCH_T2	3	13	10	0.1	0.12	0.02	0	0	0	0	0	0	0	0
5/31/2024 19:28	40801	EXCH_T2	2	2	0	0.3	0.3	0	-0.34	-0.35	1	1	0	1200	1200	0
5/31/2024 19:29	40801	EXCH_T2	2	2	0	0.3	0.3	0	-0.34	-0.35	1	1	0	1200	1200	0
5/31/2024 19:29	40802	EXCH_T2	3	13	10	0.1	0.12	0.02	0	0	0	0	0	0	0	0
5/31/2024 19:30	48302	ORWI_T2	2	2	0	0.65	0.9	0.25	0.08	0.05	0	0	0	0	0	0
5/31/2024 19:30	40801	EXCH_T2	2	2	0	0.25	0.4	0.15	-0.34	-0.35	1	1	0	1200	1200	0
5/31/2024 19:30	40802	EXCH_T2	5	36	31	0.1	0.11	0.01	0	0	0	0	0	0	0	0
5/31/2024 19:31	11102	EGYP_T1	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
5/31/2024 19:31	11104	EGYP_T1	5	5	0	0.24	0	-0.24	0	0	0	0	0	0	0	0
5/31/2024 19:33	63501	HEID_TBK1-2	1	1	0	0.1	0.2	0.1	0.68	0.6	0	0	0	0	0	0
5/31/2024 19:35	64802	MONE_T2	1	11	10	0.1	0.11	0.01	0.25	0.23	0	0	0	0	0	0
5/31/2024 19:35	64801	MONE_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
5/31/2024 19:35	41901	REED_T1	9	9	0	0.61	0.43	-0.18	0	0	0	0	0	0	0	0
5/31/2024 19:35	41902	REED_T1	0	1	1	0	0	0	1.26	1.22	0	0	0	0	0	0
5/31/2024 19:36	41902	REED_T1	0	1	1	0	0	0	1.26	1.22	0	0	0	0	0	0
5/31/2024 19:36	41901	REED_T1	9	9	0	0.61	0.43	-0.18	0	0	0	0	0	0	0	0
5/31/2024 19:43	62605	ENGL_T1	0	0	0	0	0	0	-0.48	-0.52	0	0	0	0	0	0
5/31/2024 19:43	10105	ALLE_T3	1	7	6	0.1	0.28	0.18	0	0	0	0	0	0	0	0
5/31/2024 19:43	10205	ALLE_T3	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/31/2024 19:43	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 19:45	46801	HEPB_T2	19	33	14	0.3	0.3	0	0	0	0	0	0	0	0	0
5/31/2024 19:45	46803	HEPB_T2	11	13	2	0.19	0.21	0.02	0.5	0.55	0	0	0	0	0	0
5/31/2024 19:51	65003	NEFF_T2	90	118	28	0.19	0.22	0.03	-1.91	-1.88	2	2	0	1800	1800	0
5/31/2024 19:51	65001	NEFF_T2	124	179	55	0.17	0.22	0.05	0	0	0	0	0	0	0	0
5/31/2024 20:02	42903	MIDD_T2	34	37	3	0.32	0.3	-0.02	0	0	0	0	0	0	0	0
5/31/2024 20:02	42901	MIDD_T2	204	270	66	0.38	0.38	0	0	0	0	0	0	0	0	0
5/31/2024 20:02	42902	MIDD_T2	90	100	10	0.48	0.5	0.02	-0.54	-0.56	0	0	0	0	0	0
5/31/2024 20:04	55002	NEWP_T1	4	5	1	0.85	0.86	0.01	0	0	0	0	0	0	0	0
5/31/2024 20:04	55001	NEWP_T1	0	5	5	0	0.1	0.1	-0.03	-0.04	0	0	0	0	0	0
5/31/2024 20:05	46801	HEPB_T2	31	28	-3	0.28	0.31	0.03	0.79	0.75	0	0	0	0	0	0
5/31/2024 20:05	46803	HEPB_T2	12	13	1	0.19	0.21	0.02	0	0	0	0	0	0	0	0
5/31/2024 20:09	57401	SPAN_T1	1	2	1	0.1	0.4	0.3	-1.06	-1.16	1	1	0	600	600	0
5/31/2024 20:09	60803	BUCK_T1	8	0	-8	0.16	0	-0.16	-0.42	-0.46	1	1	0	600	600	0
5/31/2024 20:09	22901	HARW_T1	0	0	0	0	0	0	-0.49	-0.54	1	1	0	1200	1200	0
5/31/2024 20:09	15703	TANN_T2	1	3	2	5	1.7	-3.3	0	0	0	0	0	0	0	0
5/31/2024 20:09	57403	SPAN_T1	19	30	11	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
5/31/2024 20:09	15702	TANN_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
5/31/2024 20:10	46801	HEPB_T2	31	28	-3	0.28	0.31	0.03	0.75	0.71	0	0	0	0	0	0
5/31/2024 20:10	46803	HEPB_T2	12	13	1	0.19	0.21	0.02	0	0	0	0	0	0	0	0
5/31/2024 20:11	57401	SPAN_T1	1	2	1	0.1	0.4	0.3	-1.06	-1.16	1	1	0	600	600	0
5/31/2024 20:11	57403	SPAN_T1	19	30	11	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
5/31/2024 20:12	43302	WATS_T2	4	4	0	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
5/31/2024 20:12	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 20:12	67602	WARW_T2	0	0	0	0	0	0	2.69	2.68	2	2	0	600	600	0
5/31/2024 20:13	16302	ALPA_T2	0	0	0	0	0	0	2.65	2.58	0	0	0	0	0	0
5/31/2024 20:13	57401	SPAN_T1	1	2	1	0.1	0.4	0.3	-2.12	-2.31	2	2	0	1200	1200	0
5/31/2024 20:13	57403	SPAN_T1	19	30	11	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
5/31/2024 20:16	57403	SPAN_T1	21	32	11	0.28	0.32	0.04	0	0	0	0	0	0	0	0
5/31/2024 20:16	57401	SPAN_T1	2	2	0	0.25	0.5	0.25	-1.06	-1.16	1	1	0	600	600	0
5/31/2024 20:16	10805	CHHI_T2	1	1	0	7.1	7.2	0.1	-1.01	-1.01	1	1	0	600	600	0
5/31/2024 20:16	16302	ALPA_T2	0	0	0	0	0	0	0.88	0.86	0	0	0	0	0	0
5/31/2024 20:18	16902	MECK_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
5/31/2024 20:26	20403	ASHF_T2	0	2	2	0	0.1	0.1	0.23	0.24	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/31/2024 20:26	20401	ASHF_T2	6	9	3	0.52	0.47	-0.05	0	0	0	0	0	0	0	0
5/31/2024 20:31	20403	ASHF_T2	1	2	1	0.1	0.1	0	0.23	0.24	0	0	0	0	0	0
5/31/2024 20:31	20401	ASHF_T2	8	10	2	0.49	0.5	0.01	-0.18	-0.23	0	0	0	0	0	0
5/31/2024 20:44	59101	WALK_T2	52	4	-48	0.35	0.28	-0.07	-0.56	-0.57	0	0	0	0	0	0
5/31/2024 20:44	59102	WALK_T2	78	73	-5	0.71	0.67	-0.04	0	0	0	0	0	0	0	0
5/31/2024 20:47	59101	WALK_T2	0	5	5	0	0.26	0.26	-0.56	-0.57	0	0	0	0	0	0
5/31/2024 20:47	59102	WALK_T2	53	77	24	0.34	0.69	0.35	0	0	0	0	0	0	0	0
5/31/2024 20:48	59101	WALK_T2	0	5	5	0	0.26	0.26	-0.56	-0.57	0	0	0	0	0	0
5/31/2024 20:48	59102	WALK_T2	53	77	24	0.34	0.69	0.35	0	0	0	0	0	0	0	0
5/31/2024 20:49	22602	KIMB_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
5/31/2024 20:52	59102	WALK_T2	53	77	24	0.34	0.69	0.35	0	0	0	0	0	0	0	0
5/31/2024 20:52	59101	WALK_T2	0	5	5	0	0.26	0.26	-0.56	-0.57	0	0	0	0	0	0
5/31/2024 21:02	64702	LITI_T2	0	0	0	0	0	0	-0.44	-0.49	0	0	0	0	0	0
5/31/2024 21:04	64702	LITI_T2	0	0	0	0	0	0	-0.44	-0.49	0	0	0	0	0	0
5/31/2024 21:05	65503	MOJO_T2	0	0	0	0	0	0	-0.26	-0.23	0	0	0	0	0	0
5/31/2024 21:05	65502	MOJO_T2	0	35	35	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 21:08	64702	LITI_T2	0	0	0	0	0	0	-0.49	-0.42	0	0	0	0	0	0
5/31/2024 21:10	59102	WALK_T2	73	78	5	0.66	0.7	0.04	0.43	0.41	0	0	0	0	0	0
5/31/2024 21:10	59101	WALK_T2	4	38	34	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
5/31/2024 21:11	17802	GILB_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
5/31/2024 21:18	65603	QVIL_T2	0	2	2	0	0.15	0.15	0.2	0.15	0	0	0	0	0	0
5/31/2024 21:18	65604	QVIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
5/31/2024 21:18	65601	QVIL_T2	1	95	94	0.1	0.22	0.12	0	0	0	0	0	0	0	0
5/31/2024 21:18	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 21:26	45402	WBLO_T2	1	2	1	1.6	0.9	-0.7	-0.82	-0.82	0	0	0	0	0	0
5/31/2024 21:29	40602	PIGR_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
5/31/2024 21:29	40601	PIGR_T1	47	153	106	0.14	0.25	0.11	0	0	0	0	0	0	0	0
5/31/2024 21:33	53901	HALI_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
5/31/2024 21:33	53903	HALI_T2	2	2	0	1.7	1.75	0.05	-0.16	-0.15	0	0	0	0	0	0
5/31/2024 21:33	53902	HALI_T2	1	1	0	5.5	6	0.5	0	0	0	0	0	0	0	0
5/31/2024 21:35	55001	NEWP_T1	1	29	28	0.1	0.17	0.07	0	0	0	0	0	0	0	0
5/31/2024 21:35	55002	NEWP_T1	6	7	1	0.77	1.14	0.37	-0.24	-0.24	0	0	0	0	0	0
5/31/2024 21:36	55002	NEWP_T1	6	7	1	0.77	1.14	0.37	-0.24	-0.24	0	0	0	0	0	0
5/31/2024 21:36	55003	NEWP_T2	8	10	2	0.7	0.71	0.01	-0.09	-0.13	0	0	0	0	0	0
5/31/2024 21:36	55001	NEWP_T1	1	29	28	0.1	0.17	0.07	0	0	0	0	0	0	0	0
5/31/2024 21:38	64201	KINZ_T1	7	10	3	0.64	0.58	-0.06	0	0	0	0	0	0	0	0
5/31/2024 21:38	64202	KINZ_T1	16	31	15	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
5/31/2024 21:38	55002	NEWP_T1	6	7	1	0.77	1.14	0.37	-0.24	-0.22	0	0	0	0	0	0
5/31/2024 21:38	64203	KINZ_T1	0	0	0	0	0	0	0.57	0.6	0	0	0	0	0	0
5/31/2024 21:38	64204	KINZ_T1	18	32	14	0.24	0.29	0.05	0	0	0	0	0	0	0	0
5/31/2024 21:38	55001	NEWP_T1	1	29	28	0.1	0.17	0.07	0	0	0	0	0	0	0	0
5/31/2024 21:39	55002	NEWP_T1	6	7	1	0.77	1.14	0.37	-0.24	-0.22	0	0	0	0	0	0
5/31/2024 21:39	55001	NEWP_T1	1	29	28	0.1	0.17	0.07	0	0	0	0	0	0	0	0
5/31/2024 21:43	16102	BING_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
5/31/2024 21:46	64201	KINZ_T1	9	10	1	0.62	0.57	-0.05	0.5	0.54	1	1	0	300	300	0
5/31/2024 21:46	64202	KINZ_T1	26	38	12	0.3	0.32	0.02	0	0	0	0	0	0	0	0
5/31/2024 21:46	64203	KINZ_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 21:46	64204	KINZ_T1	26	34	8	0.27	0.32	0.05	0	0	0	0	0	0	0	0
5/31/2024 21:47	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 21:47	16101	BING_T2	0	0	0	0	0	0	0.46	0.42	0	0	0	0	0	0
5/31/2024 21:53	57403	SPAN_T1	8	33	25	0.11	0.29	0.18	0.06	0.03	0	0	0	0	0	0
5/31/2024 21:53	57401	SPAN_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/31/2024 22:03	41802	GOCI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 22:03	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:08	41902	REED_T1	0	0	0	0	0	0	1.96	2.02	0	0	0	0	0	0
5/31/2024 22:08	41901	REED_T1	9	0	-9	0.47	0	-0.47	0	0	0	0	0	0	0	0
5/31/2024 22:08	67502	WEWI_T2	14	362	348	0.15	0.26	0.11	-0.47	-0.47	0	0	0	0	0	0
5/31/2024 22:09	67502	WEWI_T2	14	362	348	0.15	0.26	0.11	-1.41	-1.41	0	0	0	0	0	0
5/31/2024 22:09	67503	WEWI_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
5/31/2024 22:10	67503	WEWI_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
5/31/2024 22:10	67502	WEWI_T2	14	362	348	0.15	0.26	0.11	-0.47	-0.47	0	0	0	0	0	0
5/31/2024 22:11	15103	LIPHA_T2	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
5/31/2024 22:12	67502	WEWI_T2	14	362	348	0.15	0.26	0.11	-0.94	-0.94	0	0	0	0	0	0
5/31/2024 22:12	56802	BENV_T2	146	1	-145	0.24	0.4	0.16	-0.68	-0.66	0	0	0	0	0	0
5/31/2024 22:13	67505	WEWI_T1	0	0	0	0	0	0	-0.14	-0.15	1	1	0	900	900	0
5/31/2024 22:13	67501	WEWI_T1	27	24	-3	0.14	0.14	0	0	0	0	0	0	0	0	0
5/31/2024 22:13	67502	WEWI_T2	14	362	348	0.15	0.26	0.11	-0.47	-0.47	0	0	0	0	0	0
5/31/2024 22:13	29401	BELT_T1	42	0	-42	0.19	0	-0.19	0	0	3	3	0	2700	2700	0
5/31/2024 22:13	29402	BELT_T1	1	1	0	9	8.6	-0.4	0	0	0	0	0	0	0	0
5/31/2024 22:14	67503	WEWI_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
5/31/2024 22:14	67502	WEWI_T2	14	362	348	0.15	0.26	0.11	0	0	0	0	0	0	0	0
5/31/2024 22:14	67401	WAKE_T2	142	306	164	0.35	0.47	0.12	-0.78	-0.8	0	0	0	0	0	0
5/31/2024 22:14	67402	WAKE_T2	1	5	4	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:15	67501	WEWI_T1	24	4	-20	0.14	0.1	-0.04	-1.2	-0.56	1	0	-1	600	0	-600
5/31/2024 22:16	62605	ENGL_T1	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
5/31/2024 22:16	67502	WEWI_T2	45	362	317	0.16	0.26	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:16	67503	WEWI_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
5/31/2024 22:20	62607	ENGL_T1	0	0	0	0	0	0	-1.03	-0.72	1	0	-1	300	0	-300
5/31/2024 22:21	62607	ENGL_T1	0	0	0	0	0	0	-1.03	-0.72	1	0	-1	300	0	-300
5/31/2024 22:22	15203	SFAR_T2	1	15	14	0.1	0.11	0.01	-1.19	-1.19	0	0	0	0	0	0
5/31/2024 22:24	66703	STRA_T1	0	9	9	0	0.22	0.22	-0.62	-0.71	0	0	0	0	0	0
5/31/2024 22:24	60803	BUCK_T1	30	35	5	0.31	0.46	0.15	-0.5	-0.51	1	1	0	600	600	0
5/31/2024 22:24	60801	BUCK_T1	59	81	22	0.33	0.46	0.13	0	0	0	0	0	0	0	0
5/31/2024 22:24	62104	ELAN_T1	0	0	0	0	0	0	1.15	1.13	0	0	0	0	0	0
5/31/2024 22:24	17002	RIRO_T2	0	0	0	0	0	0	0.34	0.3	0	0	0	0	0	0
5/31/2024 22:25	67803	WLAN_T1	2	171	169	0.1	0.12	0.02	0	0	0	0	0	0	0	0
5/31/2024 22:25	67802	WLAN_T1	8	19	11	0.11	0.22	0.11	0	0	0	0	0	0	0	0
5/31/2024 22:25	67801	WLAN_T1	0	56	56	0	0.13	0.13	0	0	0	0	0	0	0	0
5/31/2024 22:25	54201	PENN_T1	2	3	1	0.2	0.8	0.6	0.3	0.27	0	0	0	0	0	0
5/31/2024 22:25	54203	PENN_T1	5	18	13	0.46	0.55	0.09	0	0	0	0	0	0	0	0
5/31/2024 22:25	17802	GILB_T1	0	1	1	0	0.2	0.2	0.11	0.08	0	0	0	0	0	0
5/31/2024 22:25	67805	WLAN_T1	456	552	96	0.33	0.51	0.18	0	0	0	0	0	0	0	0
5/31/2024 22:25	67703	WERN_T2	0	0	0	0	0	0	-0.26	-0.27	1	1	0	900	900	0
5/31/2024 22:25	67804	WLAN_T1	1	80	79	0.1	0.15	0.05	-0.99	-1.01	0	0	0	0	0	0
5/31/2024 22:26	15601	NSTR_T2	96	160	64	0.22	0.24	0.02	0	0	0	0	0	0	0	0
5/31/2024 22:26	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/31/2024 22:26	60803	BUCK_T1	30	35	5	0.31	0.46	0.15	0	0	0	0	0	0	0	0
5/31/2024 22:26	21206	ECAR_T2	1	1	0	8	8.2	0.2	-0.08	-0.09	0	0	0	0	0	0
5/31/2024 22:26	15602	NSTR_T2	206	229	23	0.23	0.23	0	0	0	0	0	0	0	0	0
5/31/2024 22:26	21204	ECAR_T2	1	1	0	0	0.4	0.4	0	0	0	0	0	0	0	0
5/31/2024 22:26	65001	NEFF_T2	0	0	0	0	0	0	-1.23	-1.26	1	1	0	1200	1200	0
5/31/2024 22:26	60801	BUCK_T1	59	81	22	0.33	0.46	0.13	-0.17	-0.2	0	0	0	0	0	0
5/31/2024 22:26	15603	NSTR_T2	24	20	-4	0.25	0.22	-0.03	-0.55	-0.56	0	0	0	0	0	0
5/31/2024 22:26	13302	ORVI_T2	0	0	0	0	0	0	0.04	-0.03	0	0	0	0	0	0
5/31/2024 22:27	13502	MCMI_T1	5	16	11	0.1	0.14	0.04	0	0	0	0	0	0	0	0
5/31/2024 22:27	26703	HEML_T1	0	0	0	0	0	0	-0.96	-0.97	1	1	0	600	600	0
5/31/2024 22:27	13501	MCMI_T1	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
5/31/2024 22:27	67805	WLAN_T1	456	552	96	0.33	0.51	0.18	0	0	0	0	0	0	0	0
5/31/2024 22:27	29402	BELT_T1	1	1	0	8.4	8.8	0.4	0	0	0	0	0	0	0	0
5/31/2024 22:27	26704	HEML_T2	55	57	2	0.16	0.15	-0.01	-0.89	-0.89	1	1	0	1200	1200	0
5/31/2024 22:27	67802	WLAN_T1	8	19	11	0.11	0.22	0.11	-0.3	-0.35	0	0	0	0	0	0
5/31/2024 22:27	67801	WLAN_T1	0	56	56	0	0.13	0.13	0	0	0	0	0	0	0	0
5/31/2024 22:27	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/31/2024 22:27	10805	CHHI_T2	1	1	0	7.2	7	-0.2	-1.17	-1.24	1	1	0	600	600	0
5/31/2024 22:27	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
5/31/2024 22:27	67804	WLAN_T1	1	80	79	0.1	0.15	0.05	-0.99	-1.01	0	0	0	0	0	0
5/31/2024 22:27	67803	WLAN_T1	2	171	169	0.1	0.12	0.02	0	0	0	0	0	0	0	0
5/31/2024 22:28	25402	LAHA_T2	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
5/31/2024 22:28	67502	WEWI_T2	45	362	317	0.16	0.26	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:28	56802	BENV_T2	1	1	0	0.4	0.3	-0.1	-0.66	-0.72	0	0	0	0	0	0
5/31/2024 22:28	62105	ELAN_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
5/31/2024 22:28	67503	WEWI_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
5/31/2024 22:28	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/31/2024 22:28	45901	AUBU_T1	0	0	0	0	0	0	1.56	1.5	0	0	0	0	0	0
5/31/2024 22:28	67002	STHI_T2	0	0	0	0	0	0	0.63	0.58	0	0	0	0	0	0
5/31/2024 22:28	66505	SMAN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:28	15703	TANN_T2	5	7	2	1.08	0.81	-0.27	0	0	0	0	0	0	0	0
5/31/2024 22:28	15702	TANN_T2	30	89	59	0.15	0.21	0.06	-0.37	-0.44	0	0	0	0	0	0
5/31/2024 22:28	66504	SMAN_T2	0	0	0	0	0	0	-1.05	-0.91	0	0	0	0	0	0
5/31/2024 22:29	43302	WATS_T2	4	4	0	0.68	0.9	0.22	0	0	2	2	0	1800	1800	0
5/31/2024 22:29	62607	ENGL_T1	0	0	0	0	0	0	-0.72	-1.09	0	1	1	0	300	300
5/31/2024 22:29	43304	WATS_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/31/2024 22:29	45502	DERR_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:29	67605	WARW_T1	1	14	13	0.2	0.36	0.16	0	0	0	0	0	0	0	0
5/31/2024 22:29	67002	STHI_T2	0	0	0	0	0	0	0.63	0.58	0	0	0	0	0	0
5/31/2024 22:29	45501	DERR_T2	1	1	0	0.2	0.2	0	-0.76	-0.77	2	2	0	1800	1800	0
5/31/2024 22:29	20603	GRWO_T2	15	12	-3	0.14	0.13	-0.01	0.32	0.3	0	0	0	0	0	0
5/31/2024 22:29	56802	BENV_T2	1	1	0	0.4	0.3	-0.1	-0.66	-0.72	0	0	0	0	0	0
5/31/2024 22:29	47104	MARL_T1	0	0	0	0	0	0	-0.9	-0.93	0	0	0	0	0	0
5/31/2024 22:29	67603	WARW_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
5/31/2024 22:29	29402	BELT_T1	1	1	0	8.4	8.8	0.4	0	0	0	0	0	0	0	0
5/31/2024 22:29	63501	HEID_TBK1-2	0	1	1	0	0.2	0.2	0.32	0.32	0	0	0	0	0	0
5/31/2024 22:29	20601	GRWO_T2	20	52	32	0.16	0.17	0.01	0	0	0	0	0	0	0	0
5/31/2024 22:29	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:30	54203	PENN_T1	17	18	1	0.22	0.55	0.33	0	0	0	0	0	0	0	0
5/31/2024 22:30	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
5/31/2024 22:30	29402	BELT_T1	1	1	0	8.6	9.1	0.5	0	0	0	0	0	0	0	0
5/31/2024 22:30	64503	LAVI_T1	0	0	0	0	0	0	-0.48	-0.51	1	1	0	1200	1200	0
5/31/2024 22:30	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/31/2024 22:30	67605	WARW_T1	5	14	9	0.2	0.58	0.38	-1.13	-1.15	0	0	0	0	0	0
5/31/2024 22:30	66505	SMAN_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
5/31/2024 22:30	10805	CHHI_T2	1	1	0	7.2	7	-0.2	-1.17	-1.24	1	1	0	600	600	0
5/31/2024 22:30	50701	SMEC_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
5/31/2024 22:30	15701	TANN_T1	82	139	57	0.26	0.27	0.01	0	0	0	0	0	0	0	0
5/31/2024 22:30	64302	LINC_T2	0	0	0	0	0	0	1.01	0.99	0	0	0	0	0	0
5/31/2024 22:30	61801	EELI_T2	1	1	0	0.4	0.7	0.3	-1.04	-1.07	1	1	0	600	600	0
5/31/2024 22:30	13303	ORVI_T1	0	0	0	0	0	0	-0.62	-0.67	0	0	0	0	0	0
5/31/2024 22:30	15704	TANN_T1	139	211	72	0.2	0.24	0.04	-1.35	-1.29	0	0	0	0	0	0
5/31/2024 22:30	67204	TEHI_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
5/31/2024 22:30	66502	SMAN_T2	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
5/31/2024 22:30	62104	ELAN_T1	0	0	0	0	0	0	1.15	1.13	0	0	0	0	0	0
5/31/2024 22:30	13901	SEID_T1	0	0	0	0	0	0	0.26	0.33	0	0	0	0	0	0
5/31/2024 22:30	54201	PENN_T1	2	3	1	0.4	0.9	0.5	0.3	0.27	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/31/2024 22:30	60802	BUCK_T2	181	0	-181	0.26	0	-0.26	0.18	0.16	0	0	0	0	0	0
5/31/2024 22:31	67203	TEHI_T1	0	0	0	0	0	0	1.43	1.52	1	1	0	900	900	0
5/31/2024 22:31	13704	SCHN_T2	0	3	3	0	0.13	0.13	-0.37	-0.42	0	0	0	0	0	0
5/31/2024 22:31	14801	TREI_T2	0	0	0	0	0	0	0.46	0.43	0	0	0	0	0	0
5/31/2024 22:31	67805	WLAN_T1	552	24	-528	0.51	0.11	-0.4	0	0	0	0	0	0	0	0
5/31/2024 22:31	67803	WLAN_T1	171	0	-171	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/31/2024 22:31	62607	ENGL_T1	0	0	0	0	0	0	-0.72	-1.09	0	1	1	0	300	300
5/31/2024 22:31	67804	WLAN_T1	80	0	-80	0.15	0	-0.15	-0.99	-1.01	0	0	0	0	0	0
5/31/2024 22:31	67801	WLAN_T1	56	0	-56	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/31/2024 22:31	51004	NHAR_T1	5	6	1	1.36	1.22	-0.14	-0.51	-0.53	0	0	0	0	0	0
5/31/2024 22:31	51002	NHAR_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:31	63501	HEID_TBK1-2	1	1	0	0.2	0.5	0.3	0.32	0.32	0	0	0	0	0	0
5/31/2024 22:31	58705	ROSE_T2	5	5	0	1.56	2.02	0.46	0	0	0	0	0	0	0	0
5/31/2024 22:31	58701	ROSE_T2	0	0	0	0	0	0	-1.56	-1.58	1	1	0	600	600	0
5/31/2024 22:31	60801	BUCK_T1	81	26	-55	0.46	0.16	-0.3	-0.17	-0.2	0	0	0	0	0	0
5/31/2024 22:31	60803	BUCK_T1	35	8	-27	0.46	0.15	-0.31	0	0	0	0	0	0	0	0
5/31/2024 22:31	14401	SSLA_T1	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
5/31/2024 22:31	14404	SSLA_T1	1	1	0	5.8	6.4	0.6	0	0	0	0	0	0	0	0
5/31/2024 22:31	56802	BENV_T2	1	1	0	0.3	0.3	0	-0.66	-0.72	0	0	0	0	0	0
5/31/2024 22:31	10105	ALLE_T3	2	3	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/31/2024 22:31	65702	RVIL_T2	0	0	0	0	0	0	-0.99	-1.02	1	1	0	600	600	0
5/31/2024 22:31	44201	POIN_T1	184	263	79	0.25	0.3	0.05	-2.39	-2.33	2	2	0	2100	2100	0
5/31/2024 22:31	48302	ORWI_T2	2	2	0	1.1	1.6	0.5	0	0	0	0	0	0	0	0
5/31/2024 22:31	67802	WLAN_T1	19	0	-19	0.22	0	-0.22	0	0	0	0	0	0	0	0
5/31/2024 22:31	10805	CHHI_T2	1	1	0	7.2	7	-0.2	-1.17	-1.24	1	1	0	600	600	0
5/31/2024 22:31	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/31/2024 22:31	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:31	67703	WERN_T2	0	0	0	0	0	0	-0.51	-0.53	2	2	0	1800	1800	0
5/31/2024 22:32	47001	HUGH_T2	0	0	0	0	0	0	-0.27	-0.36	0	0	0	0	0	0
5/31/2024 22:32	40302	TAMA_T3	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
5/31/2024 22:32	58003	WCAR_T1	3	70	67	0.73	0.32	-0.41	0.56	0.57	0	0	0	0	0	0
5/31/2024 22:32	43402	BENT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:32	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
5/31/2024 22:32	15203	SFAR_T2	0	73	73	0	0.16	0.16	-1.19	-1.2	0	0	0	0	0	0
5/31/2024 22:32	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:32	58001	WCAR_T1	4	10	6	1.3	0.87	-0.43	0	0	0	0	0	0	0	0
5/31/2024 22:32	14802	TREI_T2	0	0	0	0	0	0	0.35	0.39	0	0	0	0	0	0
5/31/2024 22:32	64902	MILL_T2	0	0	0	0	0	0	0.38	-0.32	0	0	0	0	0	0
5/31/2024 22:32	63501	HEID_TBK1-2	1	1	0	0.2	0.5	0.3	0.32	0.32	0	0	0	0	0	0
5/31/2024 22:32	10801	CHHI_T1	0	0	0	0	0	0	-0.79	0.88	1	1	0	900	900	0
5/31/2024 22:33	42901	MIDD_T2	480	518	38	0.56	0.69	0.13	0	0	0	0	0	0	0	0
5/31/2024 22:33	14203	EALL_T1	0	0	0	0	0	0	-0.29	-0.3	1	1	0	1200	1200	0
5/31/2024 22:33	65503	MOJO_T2	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
5/31/2024 22:33	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/31/2024 22:33	10901	COOP_T2	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
5/31/2024 22:33	67402	WAKE_T2	5	0	-5	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/31/2024 22:33	46002	BERW_T2	0	0	0	0	0	0	-1.28	-1.36	1	1	0	900	900	0
5/31/2024 22:33	64902	MILL_T2	0	0	0	0	0	0	0.38	-0.32	0	0	0	0	0	0
5/31/2024 22:33	63404	HONY_T1	99	131	32	0.2	0.28	0.08	0	0	0	0	0	0	0	0
5/31/2024 22:33	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
5/31/2024 22:33	29402	BELT_T1	1	1	0	8.6	9.1	0.5	0	0	0	0	0	0	0	0
5/31/2024 22:33	42903	MIDD_T2	82	93	11	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
5/31/2024 22:33	67002	STHI_T2	0	0	0	0	0	0	0.63	0.58	0	0	0	0	0	0
5/31/2024 22:33	42002	MNVL_T2	1	1	0	1.2	1.8	0.6	0	0	0	0	0	0	0	0
5/31/2024 22:33	67703	WERN_T2	0	0	0	0	0	0	-0.26	-0.27	1	1	0	900	900	0
5/31/2024 22:33	62606	ENGL_T1	0	0	0	0	0	0	-0.55	-0.58	1	1	0	900	900	0
5/31/2024 22:33	42901	MIDD_T2	226	267	41	0.55	0.69	0.14	-0.67	-0.69	0	0	0	0	0	0
5/31/2024 22:33	42001	MNVL_T2	4	0	-4	0.13	0	-0.13	-0.02	-0.02	0	0	0	0	0	0
5/31/2024 22:33	63401	HONY_T1	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
5/31/2024 22:33	56801	BENV_T1	10	13	3	0.4	0.65	0.25	-1.36	-1.49	2	2	0	1200	1200	0
5/31/2024 22:33	62607	ENGL_T1	0	0	0	0	0	0	-0.72	-1.09	0	1	1	0	300	300
5/31/2024 22:33	64503	LAVI_T1	0	0	0	0	0	0	-0.48	-0.51	1	1	0	1200	1200	0
5/31/2024 22:33	46302	ROHR_T1	91	106	15	0.32	0.35	0.03	0.17	0.16	0	0	0	0	0	0
5/31/2024 22:33	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:33	67605	WARW_T1	5	14	9	0.2	0.58	0.38	-2.27	-2.29	0	0	0	0	0	0
5/31/2024 22:33	65502	MOJO_T2	0	0	0	0	0	0	-2.89	-2.04	1	0	-1	900	0	-900
5/31/2024 22:33	67401	WAKE_T2	304	52	-252	0.48	0.19	-0.29	-0.8	-0.8	0	0	0	0	0	0
5/31/2024 22:33	10903	COOP_T2	0	13	13	0	0.12	0.12	0	0	0	0	0	0	0	0
5/31/2024 22:33	15603	NSTR_T2	17	95	78	0.19	0.21	0.02	0	0	0	0	0	0	0	0
5/31/2024 22:33	46301	ROHR_T1	284	292	8	0.52	0.51	-0.01	0.19	0.19	0	0	0	0	0	0
5/31/2024 22:33	15601	NSTR_T2	62	206	144	0.21	0.28	0.07	0	0	0	0	0	0	0	0
5/31/2024 22:33	60101	COCA_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
5/31/2024 22:33	15602	NSTR_T2	186	282	96	0.18	0.33	0.15	-0.16	-0.14	0	0	0	0	0	0
5/31/2024 22:33	45801	HEGI_T1	0	0	0	0	0	0	-0.48	-0.46	1	1	0	900	900	0
5/31/2024 22:34	52004	LING_T2	1	1	0	0.1	0.2	0.1	0.15	0.15	0	0	0	0	0	0
5/31/2024 22:34	56801	BENV_T1	10	13	3	0.4	0.65	0.25	-0.68	-0.75	1	1	0	600	600	0
5/31/2024 22:34	54203	PENN_T1	17	18	1	0.22	0.55	0.33	0	0	0	0	0	0	0	0
5/31/2024 22:34	43302	WATS_T2	4	4	0	0.9	0.45	-0.45	0	0	0	0	0	0	0	0
5/31/2024 22:34	44601	SALE_T2	0	1	1	0	0.1	0.1	-0.2	-0.15	0	0	0	0	0	0
5/31/2024 22:34	11102	EGYP_T1	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
5/31/2024 22:34	66504	SMAN_T2	0	0	0	0	0	0	-0.53	-0.45	0	0	0	0	0	0
5/31/2024 22:34	65702	RVIL_T2	0	0	0	0	0	0	-0.99	-1.02	1	1	0	600	600	0
5/31/2024 22:34	54201	PENN_T1	2	3	1	0.4	0.9	0.5	0.3	0.27	0	0	0	0	0	0
5/31/2024 22:34	46301	ROHR_T1	284	292	8	0.52	0.51	-0.01	0.19	0.19	0	0	0	0	0	0
5/31/2024 22:34	63804	HEMP_T1	1	1	0	5.4	5.9	0.5	0	0	0	0	0	0	0	0
5/31/2024 22:34	44302	BEAV_T2	240	387	147	0.37	0.6	0.23	0.39	0.39	0	0	0	0	0	0
5/31/2024 22:34	14603	SWHI_T1	0	0	0	0	0	0	-0.95	-1.02	1	1	0	600	600	0
5/31/2024 22:34	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/31/2024 22:34	44301	BEAV_T2	8	13	5	0.34	0.54	0.2	0	0	0	0	0	0	0	0
5/31/2024 22:34	60801	BUCK_T1	81	26	-55	0.46	0.16	-0.3	-0.34	-0.4	0	0	0	0	0	0
5/31/2024 22:34	52006	LING_T2	2	2	0	0.6	0.95	0.35	0	0	0	0	0	0	0	0
5/31/2024 22:34	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	1	1	0	900	900
5/31/2024 22:34	42902	MIDD_T2	226	267	41	0.55	0.69	0.14	0	0	0	0	0	0	0	0
5/31/2024 22:34	57403	SPAN_T1	52	157	105	0.3	0.37	0.07	0.03	0.03	0	0	0	0	0	0
5/31/2024 22:34	66505	SMAN_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
5/31/2024 22:34	64503	LAVI_T1	0	0	0	0	0	0	-0.48	-0.51	1	1	0	1200	1200	0
5/31/2024 22:34	60803	BUCK_T1	35	8	-27	0.46	0.15	-0.31	0	0	0	0	0	0	0	0
5/31/2024 22:34	42901	MIDD_T2	480	518	38	0.56	0.69	0.13	0	0	0	0	0	0	0	0
5/31/2024 22:34	42903	MIDD_T2	82	93	11	0.39	0.37	-0.02	-0.33	-0.13	0	0	0	0	0	0
5/31/2024 22:34	60605	NCOL_T2	0	0	0	0	0	0	-1.39	-1.39	0	0	0	0	0	0
5/31/2024 22:34	67605	WARW_T1	5	14	9	0.2	0.58	0.38	-1.13	-1.15	0	0	0	0	0	0
5/31/2024 22:34	51603	DUKE_T1	0	0	0	0	0	0	-0.34	-0.38	0	0	0	0	0	0
5/31/2024 22:34	57401	SPAN_T1	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/31/2024 22:34	63801	HEMP_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 22:34	62106	ELAN_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/31/2024 22:34	67401	WAKE_T2	304	52	-252	0.48	0.19	-0.29	-0.8	-0.8	0	0	0	0	0	0
5/31/2024 22:34	52002	LING_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
5/31/2024 22:34	42201	SHEN_T2	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
5/31/2024 22:34	46302	ROHR_T1	91	106	15	0.32	0.35	0.03	0	0	0	0	0	0	0	0
5/31/2024 22:34	62105	ELAN_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
5/31/2024 22:34	64101	REFR_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
5/31/2024 22:34	67402	WAKE_T2	5	0	-5	0.2	0	-0.2	0.37	0.33	0	0	0	0	0	0
5/31/2024 22:34	60602	NCOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:34	63305	GREE_T1	13	0	-13	0.24	0	-0.24	0	0	0	0	0	0	0	0
5/31/2024 22:34	63802	HEMP_T1	0	0	0	0	0	0	0.17	0.08	0	0	0	0	0	0
5/31/2024 22:34	25404	LAHA_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:34	16702	MACK_T1	0	0	0	0	0	0	-1.03	-1.05	0	0	0	0	0	0
5/31/2024 22:34	14204	EALL_T2	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
5/31/2024 22:34	25402	LAHA_T2	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
5/31/2024 22:34	61103	BERK_T5	0	0	0	0	0	0	0.12	0.03	0	0	0	0	0	0
5/31/2024 22:34	63501	HEID_TBK1-2	1	1	0	0.2	0.5	0.3	0.32	0.32	0	0	0	0	0	0
5/31/2024 22:34	63306	GREE_T1	0	0	0	0	0	0	-1.43	-1.46	1	1	0	900	900	0
5/31/2024 22:34	67703	WERN_T2	0	0	0	0	0	0	-0.26	-0.27	1	1	0	900	900	0
5/31/2024 22:34	60101	COCA_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
5/31/2024 22:35	14403	SSLA_T1	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
5/31/2024 22:35	67803	WLAN_T1	171	0	-171	0.12	0	-0.12	-0.8	-0.84	0	0	0	0	0	0
5/31/2024 22:35	67204	TEHI_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
5/31/2024 22:35	40602	PIGR_T1	0	0	0	0	0	0	-0.1	-0.16	0	0	0	0	0	0
5/31/2024 22:35	23203	HIRU_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
5/31/2024 22:35	67002	STHI_T2	0	0	0	0	0	0	0.63	0.58	0	0	0	0	0	0
5/31/2024 22:35	44302	BEAV_T2	240	387	147	0.37	0.6	0.23	0	0	0	0	0	0	0	0
5/31/2024 22:35	67805	WLAN_T1	552	24	-528	0.51	0.11	-0.4	0	0	0	0	0	0	0	0
5/31/2024 22:35	43103	SMIL_T2	16	20	4	0.58	0.58	0	0	0	0	0	0	0	0	0
5/31/2024 22:35	42901	MIDD_T2	480	518	38	0.56	0.69	0.13	0	0	0	0	0	0	0	0
5/31/2024 22:35	63305	GREE_T1	13	0	-13	0.24	0	-0.24	0	0	0	0	0	0	0	0
5/31/2024 22:35	67702	WERN_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
5/31/2024 22:35	11102	EGYP_T1	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
5/31/2024 22:35	44301	BEAV_T2	8	13	5	0.34	0.54	0.2	-0.04	-0.11	1	1	0	600	600	0
5/31/2024 22:35	67801	WLAN_T1	56	0	-56	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/31/2024 22:35	67402	WAKE_T2	5	0	-5	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/31/2024 22:35	43105	SMIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:35	13704	SCHN_T2	0	3	3	0	0.13	0.13	-0.37	-0.42	0	0	0	0	0	0
5/31/2024 22:35	41202	KENM_T2	1	1	0	0.7	0.2	-0.5	0.63	0.55	0	0	0	0	0	0
5/31/2024 22:35	67303	WYOM_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
5/31/2024 22:35	55101	WERT_T1	0	0	0	0	0	0	-0.87	-0.84	1	1	0	900	900	0
5/31/2024 22:35	15703	TANN_T2	5	7	2	1.08	0.89	-0.19	0	0	0	0	0	0	0	0
5/31/2024 22:35	67605	WARW_T1	5	14	9	0.2	0.58	0.38	-1.13	-1.15	0	0	0	0	0	0
5/31/2024 22:35	43302	WATS_T2	4	4	0	0.9	0.45	-0.45	0	0	0	0	0	0	0	0
5/31/2024 22:35	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:35	59301	MCAL_T1	4	2	-2	0.5	1	0.5	-1.19	-1.2	0	0	0	0	0	0
5/31/2024 22:35	67802	WLAN_T1	19	0	-19	0.22	0	-0.22	0	0	0	0	0	0	0	0
5/31/2024 22:35	47101	MARL_T1	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
5/31/2024 22:35	63304	GREE_T1	0	0	0	0	0	0	-0.47	-0.45	0	0	0	0	0	0
5/31/2024 22:35	40601	PIGR_T1	1	63	62	0.1	0.14	0.04	0	0	0	0	0	0	0	0
5/31/2024 22:35	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	1	1	0	900	900
5/31/2024 22:35	60801	BUCK_T1	81	26	-55	0.46	0.16	-0.3	0	0	0	0	0	0	0	0
5/31/2024 22:35	67703	WERN_T2	0	0	0	0	0	0	-0.26	-0.27	1	1	0	900	900	0
5/31/2024 22:35	60501	NMAN_T2	3	0	0	4.9	5.6	0.7	0	0	0	0	0	0	0	0
5/31/2024 22:35	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/31/2024 22:35	45902	AUBU_T1	0	0	0	0	0	0	-1.14	-1.15	0	0	0	0	0	0
5/31/2024 22:35	67401	WAKE_T2	304	52	-252	0.48	0.19	-0.29	-0.8	-0.8	0	0	0	0	0	0
5/31/2024 22:35	24104	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:35	43108	SMIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/31/2024 22:35	14603	SWHI_T1	0	0	0	0	0	0	-0.95	-1.02	1	1	0	600	600	0
5/31/2024 22:35	14404	SSLA_T1	1	1	0	5.8	6.4	0.6	0.01	0.02	0	0	0	0	0	0
5/31/2024 22:35	60803	BUCK_T1	35	8	-27	0.46	0.15	-0.31	-0.5	-0.51	1	1	0	600	600	0
5/31/2024 22:35	48301	ORWI_T1	2	2	0	5.25	5.8	0.55	0	0	0	0	0	0	0	0
5/31/2024 22:35	42903	MIDD_T2	82	93	11	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
5/31/2024 22:35	24105	EHAZ_T1	4	4	0	5.7	5.43	-0.27	0	0	0	0	0	0	0	0
5/31/2024 22:35	60502	NMAN_T2	0	0	0	0	0	0	0	-0.56	0	0	0	0	0	0
5/31/2024 22:35	67804	WLAN_T1	80	0	-80	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/31/2024 22:35	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
5/31/2024 22:35	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:35	43102	SMIL_T2	6	7	1	0.3	0.47	0.17	-0.31	-0.3	0	0	0	0	0	0
5/31/2024 22:35	59302	MCAL_T1	1	1	0	0.6	0.7	0.1	-0.44	-0.48	1	1	0	600	600	0
5/31/2024 22:35	22405	MORG_T2	0	0	0	0	0	0	-0.18	-0.22	0	0	0	0	0	0
5/31/2024 22:35	60101	COCA_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
5/31/2024 22:35	42902	MIDD_T2	226	267	41	0.55	0.69	0.14	-0.67	-0.69	0	0	0	0	0	0
5/31/2024 22:35	15702	TANN_T2	25	148	123	0.14	0.26	0.12	-0.37	-0.44	0	0	0	0	0	0
5/31/2024 22:35	24103	EHAZ_T1	0	0	0	0	0	0	-0.63	-0.59	0	0	0	0	0	0
5/31/2024 22:36	42901	MIDD_T2	480	518	38	0.56	0.69	0.13	0	0	0	0	0	0	0	0
5/31/2024 22:36	22901	HARW_T1	0	0	0	0	0	0	-0.54	-0.55	1	1	0	1200	1200	0
5/31/2024 22:36	15203	SFAR_T2	0	73	73	0	0.16	0.16	0	0	0	0	0	0	0	0
5/31/2024 22:36	64203	KINZ_T1	76	0	-76	0.27	0	-0.27	0.5	0.46	0	0	0	0	0	0
5/31/2024 22:36	41002	LAUR_T2	58	60	2	0.52	0.55	0.03	0.06	0.05	0	0	0	0	0	0
5/31/2024 22:36	67804	WLAN_T1	80	0	-80	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/31/2024 22:36	58006	WCAR_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
5/31/2024 22:36	62104	ELAN_T1	0	0	0	0	0	0	1.15	1.13	0	0	0	0	0	0
5/31/2024 22:36	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:36	67801	WLAN_T1	56	0	-56	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/31/2024 22:36	64204	KINZ_T1	41	30	-11	0.67	0.32	-0.35	0	0	0	0	0	0	0	0
5/31/2024 22:36	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:36	67803	WLAN_T1	171	0	-171	0.12	0	-0.12	-0.8	-0.84	0	0	0	0	0	0
5/31/2024 22:36	67401	WAKE_T2	304	52	-252	0.48	0.19	-0.29	0	0	0	0	0	0	0	0
5/31/2024 22:36	58001	WCAR_T1	4	10	6	1.3	0.87	-0.43	0	0	0	0	0	0	0	0
5/31/2024 22:36	15204	SFAR_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
5/31/2024 22:36	45502	DERR_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/31/2024 22:36	54203	PENN_T1	17	18	1	0.22	0.55	0.33	0.71	0.71	0	0	0	0	0	0
5/31/2024 22:36	10801	CHHI_T1	0	0	0	0	0	0	-0.79	-0.88	1	1	0	900	900	0
5/31/2024 22:36	56802	BENV_T2	1	1	0	0.3	0.3	0	-1.32	-1.44	0	0	0	0	0	0
5/31/2024 22:36	41001	LAUR_T2	78	79	1	0.6	0.54	-0.06	0	0	0	0	0	0	0	0
5/31/2024 22:36	67805	WLAN_T1	552	24	-528	0.51	0.11	-0.4	0	0	0	0	0	0	0	0
5/31/2024 22:36	64202	KINZ_T1	77	34	-43	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
5/31/2024 22:36	67402	WAKE_T2	5	0	-5	0.2	0	-0.2	0.18	0.16	0	0	0	0	0	0
5/31/2024 22:36	67802	WLAN_T1	19	0	-19	0.22	0	-0.22	0	0	0	0	0	0	0	0
5/31/2024 22:36	64503	LAVI_T1	0	0	0	0	0	0	-0.48	-0.51	1	1	0	1200	1200	0
5/31/2024 22:36	51603	DUKE_T1	0	0	0	0	0	0	-0.68	-0.76	0	0	0	0	0	0
5/31/2024 22:36	12606	MACA_T1	0	0	0	0	0	0	-0.31	-0.33	1	1	0	900	900	0
5/31/2024 22:36	56801	BENV_T1	10	13	3	0.4	0.65	0.25	-0.68	-0.75	1	1	0	600	600	0
5/31/2024 22:36	45501	DERR_T2	1	1	0	0.1	0.4	0.3	-1.52	-1.54	4	4	0	3600	3600	0
5/31/2024 22:36	42902	MIDD_T2	226	267	41	0.55	0.69	0.14	-0.67	-0.69	0	0	0	0	0	0
5/31/2024 22:36	54201	PENN_T1	2	3	1	0.4	0.9	0.5	0	0	0	0	0	0	0	0
5/31/2024 22:36	14801	TREI_T2	0	0	0	0	0	0	0.46	0.43	0	0	0	0	0	0
5/31/2024 22:36	58003	WCAR_T1	3	70	67	0.73	0.32	-0.41	0.56	0.57	0	0	0	0	0	0
5/31/2024 22:36	42204	SHEN_T2	0	0	0	0	0	0	-0.73	-0.76	1	1	0	1200	1200	0
5/31/2024 22:36	64201	KINZ_T1	71	9	-62	0.28	0.6	0.32	0	0	0	0	0	0	0	0
5/31/2024 22:36	42903	MIDD_T2	82	93	11	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
5/31/2024 22:36	46004	BERW_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
5/31/2024 22:36	64902	MILL_T2	0	0	0	0	0	0	0.38	-0.32	0	0	0	0	0	0
5/31/2024 22:37	14404	SSLA_T1	1	1	0	5.8	6.4	0.6	0.01	0.02	0	0	0	0	0	0
5/31/2024 22:37	62602	ENGL_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
5/31/2024 22:37	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	1	1	0	900	900
5/31/2024 22:37	67803	WLAN_T1	171	0	-171	0.12	0	-0.12	-1.6	-1.68	0	0	0	0	0	0
5/31/2024 22:37	56802	BENV_T2	1	1	0	0.3	0.3	0	-1.32	-1.44	0	0	0	0	0	0
5/31/2024 22:37	52401	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/31/2024 22:37	66502	SMAN_T2	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
5/31/2024 22:37	52006	LING_T2	2	2	0	0.6	0.95	0.35	0	0	0	0	0	0	0	0
5/31/2024 22:37	59201	THOM_T1	10	12	2	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
5/31/2024 22:37	66505	SMAN_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
5/31/2024 22:37	67805	WLAN_T1	552	24	-528	0.51	0.11	-0.4	0	0	0	0	0	0	0	0
5/31/2024 22:37	21702	SUBU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:37	43302	WATS_T2	4	4	0	0.9	0.45	-0.45	0	0	0	0	0	0	0	0
5/31/2024 22:37	24104	EHAZ_T1	0	1	1	0	0.1	0.1	-0.98	-0.97	1	1	0	1200	1200	0
5/31/2024 22:37	12803	MICK_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
5/31/2024 22:37	47001	HUGH_T2	0	0	0	0	0	0	-0.27	-0.36	0	0	0	0	0	0
5/31/2024 22:37	52403	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/31/2024 22:37	44703	MUNC_T2	2	2	0	1.15	0.8	-0.35	0.66	0.6	0	0	0	0	0	0
5/31/2024 22:37	26603	BROO_T1	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
5/31/2024 22:37	44701	MUNC_T2	243	0	-243	0.23	0	-0.23	0	0	0	0	0	0	0	0
5/31/2024 22:37	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/31/2024 22:37	13501	MCMI_T1	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
5/31/2024 22:37	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:37	50701	SMEC_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
5/31/2024 22:37	12606	MACA_T1	0	0	0	0	0	0	-0.31	-0.33	1	1	0	900	900	0
5/31/2024 22:37	14204	EALL_T2	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
5/31/2024 22:37	42501	ALTA_T2	0	0	0	0	0	0	0.1	0.13	1	1	0	600	600	0
5/31/2024 22:37	24202	PROV_T4	0	0	0	0	0	0	-0.68	-0.67	1	1	0	1200	1200	0
5/31/2024 22:37	58001	WCAR_T1	4	10	6	1.3	0.87	-0.43	0	0	0	0	0	0	0	0
5/31/2024 22:37	24105	EHAZ_T1	4	4	0	5.7	5.43	-0.27	0	0	0	0	0	0	0	0
5/31/2024 22:37	44702	MUNC_T2	15	0	-15	0.16	0	-0.16	0	0	0	0	0	0	0	0
5/31/2024 22:37	59202	THOM_T1	113	88	-25	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
5/31/2024 22:37	13502	MCMI_T1	8	48	40	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
5/31/2024 22:37	52402	GRPA_T2	4	3	-1	0.23	0.23	0	-0.8	-0.83	0	0	0	0	0	0
5/31/2024 22:37	58402	MORO_T1	0	0	0	0	0	0	-0.43	-0.46	2	2	0	1500	1500	0
5/31/2024 22:37	15203	SFAR_T2	0	73	73	0	0.16	0.16	-1.19	-1.2	0	0	0	0	0	0
5/31/2024 22:37	56801	BENV_T1	10	13	3	0.4	0.65	0.25	-3.4	-3.74	5	5	0	3000	3000	0
5/31/2024 22:37	58003	WCAR_T1	3	70	67	0.73	0.32	-0.41	0.56	0.57	0	0	0	0	0	0
5/31/2024 22:37	52002	LING_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
5/31/2024 22:37	67801	WLAN_T1	56	0	-56	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/31/2024 22:37	21703	SUBU_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
5/31/2024 22:37	65205	PRIN_T1	1	1	0	1.6	2.1	0.5	0	0	0	0	0	0	0	0
5/31/2024 22:37	52004	LING_T2	1	1	0	0.1	0.2	0.1	0.15	0.15	0	0	0	0	0	0
5/31/2024 22:37	67804	WLAN_T1	80	0	-80	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/31/2024 22:37	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
5/31/2024 22:37	12801	MICK_T1	0	0	0	0	0	0	-0.21	-0.2	1	1	0	600	600	0
5/31/2024 22:37	21705	SUBU_T1	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
5/31/2024 22:37	12802	MICK_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
5/31/2024 22:37	67802	WLAN_T1	19	0	-19	0.22	0	-0.22	0	0	0	0	0	0	0	0
5/31/2024 22:37	12807	MICK_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/31/2024 22:37	64501	LAVI_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
5/31/2024 22:38	44301	BEAV_T2	8	13	5	0.34	0.54	0.2	-0.11	-0.12	1	1	0	600	600	0
5/31/2024 22:38	59202	THOM_T1	113	88	-25	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
5/31/2024 22:38	67803	WLAN_T1	171	0	-171	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/31/2024 22:38	67804	WLAN_T1	80	0	-80	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/31/2024 22:38	20403	ASHF_T2	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
5/31/2024 22:38	52401	GRPA_T2	1	1	0	0.4	0	-0.4	-0.41	-0.42	0	0	0	0	0	0
5/31/2024 22:38	54502	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/31/2024 22:38	44601	SALE_T2	0	1	1	0	0.1	0.1	-0.15	-0.16	0	0	0	0	0	0
5/31/2024 22:38	43302	WATS_T2	4	4	0	0.9	0.45	-0.45	0	0	2	2	0	1800	1800	0
5/31/2024 22:38	10805	CHHI_T2	1	1	0	7.2	7	-0.2	-2.48	-2.42	2	2	0	1200	1200	0
5/31/2024 22:38	20401	ASHF_T2	2	13	11	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
5/31/2024 22:38	52403	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/31/2024 22:38	12601	MACA_T1	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
5/31/2024 22:38	63401	HONY_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
5/31/2024 22:38	60803	BUCK_T1	35	8	-27	0.46	0.15	-0.31	0	0	0	0	0	0	0	0
5/31/2024 22:38	58003	WCAR_T1	3	70	67	0.73	0.32	-0.41	0	0	0	0	0	0	0	0
5/31/2024 22:38	46001	BERW_T1	0	0	0	0	0	0	1	1.02	0	0	0	0	0	0
5/31/2024 22:38	58001	WCAR_T1	4	10	6	1.3	0.87	-0.43	0.71	0.7	0	0	0	0	0	0
5/31/2024 22:38	67801	WLAN_T1	56	0	-56	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/31/2024 22:38	66504	SMAN_T2	0	0	0	0	0	0	-0.45	-0.53	0	0	0	0	0	0
5/31/2024 22:38	29402	BELT_T1	1	1	0	8.6	9.1	0.5	0	0	0	0	0	0	0	0
5/31/2024 22:38	17804	GILB_T2	5	32	27	0.1	0.14	0.04	-0.58	-0.58	0	0	0	0	0	0
5/31/2024 22:38	43102	SMIL_T2	6	7	1	0.3	0.47	0.17	0	0	0	0	0	0	0	0
5/31/2024 22:38	65604	QVIL_T2	3	0	-3	0.2	0	-0.2	0.25	0.25	0	0	0	0	0	0
5/31/2024 22:38	54505	ENOL_T2	1	1	0	0.4	0.8	0.4	-1.28	-1.3	1	1	0	600	600	0
5/31/2024 22:38	40601	PIGR_T1	1	63	62	0.1	0.14	0.04	-0.23	-0.22	0	0	0	0	0	0
5/31/2024 22:38	26401	INOR_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
5/31/2024 22:38	52402	GRPA_T2	4	3	-1	0.23	0.23	0	0	0	0	0	0	0	0	0
5/31/2024 22:38	67203	TEHI_T1	0	0	0	0	0	0	1.52	1.55	1	1	0	900	900	0
5/31/2024 22:38	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	1	1	0	900	900
5/31/2024 22:38	65601	QVIL_T2	41	0	-41	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/31/2024 22:38	67703	WERN_T2	0	0	0	0	0	0	-0.27	-0.3	1	1	0	900	900	0
5/31/2024 22:38	60801	BUCK_T1	81	26	-55	0.46	0.16	-0.3	-0.2	-0.24	0	0	0	0	0	0
5/31/2024 22:38	43105	SMIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:38	65603	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 22:38	24702	FLND_T2	0	0	0	0	0	0	0.87	0.92	1	0	-1	1200	0	-1200
5/31/2024 22:38	59201	THOM_T1	10	12	2	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
5/31/2024 22:38	62102	ELAN_T1	0	0	0	0	0	0	0.74	0.67	0	0	0	0	0	0
5/31/2024 22:38	67802	WLAN_T1	19	0	-19	0.22	0	-0.22	0	0	0	0	0	0	0	0
5/31/2024 22:38	63404	HONY_T1	99	131	32	0.2	0.28	0.08	0	0	0	0	0	0	0	0
5/31/2024 22:38	44302	BEAV_T2	240	387	147	0.37	0.6	0.23	0	0	0	0	0	0	0	0
5/31/2024 22:38	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:38	43108	SMIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/31/2024 22:38	56802	BENV_T2	1	1	0	0.3	0.3	0	-1.44	-1.44	0	0	0	0	0	0
5/31/2024 22:38	43101	SMIL_T2	0	0	0	0	0	0	-0.73	-0.75	0	0	0	0	0	0
5/31/2024 22:38	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/31/2024 22:38	67805	WLAN_T1	552	24	-528	0.51	0.11	-0.4	-1.48	-1.5	0	0	0	0	0	0
5/31/2024 22:38	56801	BENV_T1	10	13	3	0.4	0.65	0.25	-0.75	-0.78	1	1	0	600	600	0
5/31/2024 22:38	43103	SMIL_T2	16	20	4	0.58	0.58	0	0	0	0	0	0	0	0	0
5/31/2024 22:38	66505	SMAN_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
5/31/2024 22:38	64101	REFR_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
5/31/2024 22:38	49804	UNIV_T1	0	0	0	0	0	0	0.45	0.4	0	0	0	0	0	0
5/31/2024 22:38	65602	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
5/31/2024 22:39	24603	VARD_T2	14	155	141	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
5/31/2024 22:39	41901	REED_T1	0	8	8	0	0.23	0.23	0	0	0	0	0	0	0	0
5/31/2024 22:39	42901	MIDD_T2	480	518	38	0.56	0.69	0.13	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/31/2024 22:39	56802	BENV_T2	1	1	0	0.3	0.3	0	-0.72	-0.72	0	0	0	0	0	0
5/31/2024 22:39	44502	HAMI_T2	1	1	0	3.6	3.6	0	0	0	0	0	0	0	0	0
5/31/2024 22:39	43105	SMIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:39	58003	WCAR_T1	3	70	67	0.73	0.32	-0.41	0.57	0.58	0	0	0	0	0	0
5/31/2024 22:39	58001	WCAR_T1	4	10	6	1.3	0.87	-0.43	0	0	0	0	0	0	0	0
5/31/2024 22:39	24801	VALM_T1	0	0	0	0	0	0	-0.41	-0.35	0	0	0	0	0	0
5/31/2024 22:39	67502	WEWI_T2	362	0	-362	0.26	0	-0.26	-0.49	-0.53	0	0	0	0	0	0
5/31/2024 22:39	14603	SWHI_T1	0	0	0	0	0	0	-1.02	-1.01	1	1	0	600	600	0
5/31/2024 22:39	46001	BERW_T1	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
5/31/2024 22:39	22905	HARW_T1	0	0	0	0	0	0	-0.77	-0.79	0	0	0	0	0	0
5/31/2024 22:39	41902	REED_T1	0	0	0	0	0	0	1.73	1.64	0	0	0	0	0	0
5/31/2024 22:39	40801	EXCH_T2	0	0	0	0	0	0	0.76	0.78	0	0	0	0	0	0
5/31/2024 22:39	25503	MADI_T1	169	156	-13	0.64	0.56	-0.08	-1.01	-1.01	0	0	0	0	0	0
5/31/2024 22:39	67804	WLAN_T1	80	0	-80	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/31/2024 22:39	67805	WLAN_T1	552	24	-528	0.51	0.11	-0.4	0	0	0	0	0	0	0	0
5/31/2024 22:39	42903	MIDD_T2	82	93	11	0.39	0.37	-0.02	-0.13	-0.05	0	0	0	0	0	0
5/31/2024 22:39	24602	VARD_T2	743	848	105	0.75	1.17	0.42	-1.04	-1.06	0	0	0	0	0	0
5/31/2024 22:39	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:39	45702	LIND_T2	1	1	0	0.6	0.2	-0.4	-0.47	-0.48	0	0	0	0	0	0
5/31/2024 22:39	43108	SMIL_T2	0	3	3	0	0.13	0.13	-1.11	-1.14	1	1	0	1200	1200	0
5/31/2024 22:39	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:39	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
5/31/2024 22:39	49803	UNIV_T1	0	0	0	0	0	0	0.11	0.05	0	0	0	0	0	0
5/31/2024 22:39	26402	INOR_T1	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
5/31/2024 22:39	42902	MIDD_T2	226	267	41	0.55	0.69	0.14	-1.38	-1.42	0	0	0	0	0	0
5/31/2024 22:39	43302	WATS_T2	4	4	0	0.9	0.45	-0.45	0	0	0	0	0	0	0	0
5/31/2024 22:39	43103	SMIL_T2	16	20	4	0.58	0.58	0	0	0	0	0	0	0	0	0
5/31/2024 22:39	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/31/2024 22:39	44504	HAMI_T2	0	0	0	0	0	0	-1.28	-1.31	0	0	0	0	0	0
5/31/2024 22:39	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	1	1	0	900	900
5/31/2024 22:39	28403	HART_T2	0	0	0	0	0	0	-0.88	-0.9	1	1	0	900	900	0
5/31/2024 22:39	44505	HAMI_T2	0	0	0	0	0	0	0.32	0.27	0	0	0	0	0	0
5/31/2024 22:39	58202	NEWV_T1	0	8	8	0	0.45	0.45	-0.07	0.02	0	0	0	0	0	0
5/31/2024 22:39	58102	NEXI_T1	1	1	0	0.3	0.6	0.3	0.17	0.13	0	0	0	0	0	0
5/31/2024 22:39	67801	WLAN_T1	56	0	-56	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/31/2024 22:39	45501	DERR_T2	1	1	0	0.1	0.4	0.3	-0.77	-0.78	2	2	0	1800	1800	0
5/31/2024 22:39	46501	LOHA_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
5/31/2024 22:39	67803	WLAN_T1	171	0	-171	0.12	0	-0.12	-0.84	-0.86	0	0	0	0	0	0
5/31/2024 22:39	46506	LOHA_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:39	43102	SMIL_T2	6	7	1	0.3	0.47	0.17	0	0	0	0	0	0	0	0
5/31/2024 22:39	67002	STHI_T2	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
5/31/2024 22:39	46504	LOHA_T1	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
5/31/2024 22:39	45502	DERR_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
5/31/2024 22:39	67802	WLAN_T1	19	0	-19	0.22	0	-0.22	0	0	0	0	0	0	0	0
5/31/2024 22:40	64801	MONE_T2	58	0	-58	0.33	0	-0.33	0	0	0	0	0	0	0	0
5/31/2024 22:40	43201	MVIL_T2	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
5/31/2024 22:40	67201	TEHI_T1	0	0	0	0	0	0	-0.69	-0.68	1	1	0	900	900	0
5/31/2024 22:40	15203	SFAR_T2	0	73	73	0	0.16	0.16	-1.2	-1.26	0	0	0	0	0	0
5/31/2024 22:40	60101	COCA_T1	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
5/31/2024 22:40	14404	SSLA_T1	1	1	0	5.8	6.4	0.6	0	0	0	0	0	0	0	0
5/31/2024 22:40	53903	HALI_T2	2	2	0	1.4	1.45	0.05	0	0	0	0	0	0	0	0
5/31/2024 22:40	58705	ROSE_T2	5	5	0	1.56	2.02	0.46	0	0	0	0	0	0	0	0
5/31/2024 22:40	52401	GRPA_T2	1	1	0	0.4	0	-0.4	-0.41	-0.42	0	0	0	0	0	0
5/31/2024 22:40	14403	SSLA_T1	0	0	0	0	0	0	0.61	0.56	0	0	0	0	0	0
5/31/2024 22:40	58401	MORO_T1	0	0	0	0	0	0	-1.19	-1.17	1	1	0	600	600	0
5/31/2024 22:40	62606	ENGL_T1	0	0	0	0	0	0	-0.58	-0.56	1	1	0	900	900	0
5/31/2024 22:40	56802	BENV_T2	1	1	0	0.3	0.3	0	-0.72	-0.72	0	0	0	0	0	0
5/31/2024 22:40	43105	SMIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:40	60801	BUCK_T1	81	26	-55	0.46	0.16	-0.3	-0.2	-0.24	0	0	0	0	0	0
5/31/2024 22:40	60803	BUCK_T1	35	8	-27	0.46	0.15	-0.31	-0.51	-0.53	1	1	0	600	600	0
5/31/2024 22:40	57403	SPAN_T1	52	157	105	0.3	0.37	0.07	0.03	0.02	0	0	0	0	0	0
5/31/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
5/31/2024 22:40	66505	SMAN_T2	0	3	3	0	0.33	0.33	-0.12	-0.11	1	1	0	900	900	0
5/31/2024 22:40	63801	HEMP_T1	2	0	-2	0.1	0	-0.1	-1.24	-1.1	1	1	0	900	900	0
5/31/2024 22:40	58701	ROSE_T2	0	0	0	0	0	0	-1.58	-1.6	1	1	0	600	600	0
5/31/2024 22:40	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
5/31/2024 22:40	66503	SMAN_T2	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
5/31/2024 22:40	44505	HAMI_T2	0	0	0	0	0	0	0.32	0.27	0	0	0	0	0	0
5/31/2024 22:40	64802	MONE_T2	86	0	-86	0.19	0	-0.19	0.39	0.37	0	0	0	0	0	0
5/31/2024 22:40	29402	BELT_T1	1	1	0	8.6	9.1	0.5	0	0	0	0	0	0	0	0
5/31/2024 22:40	40601	PIGR_T1	1	63	62	0.1	0.14	0.04	-0.23	-0.22	0	0	0	0	0	0
5/31/2024 22:40	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
5/31/2024 22:40	26601	BROO_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
5/31/2024 22:40	53901	HALI_T2	1	1	0	0.1	0.2	0.1	-1.01	-1.06	0	0	0	0	0	0
5/31/2024 22:40	64503	LAVI_T1	0	0	0	0	0	0	-0.51	-0.53	1	1	0	1200	1200	0
5/31/2024 22:40	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/31/2024 22:40	46506	LOHA_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:40	43108	SMIL_T2	0	3	3	0	0.13	0.13	-1.11	-1.14	1	1	0	1200	1200	0
5/31/2024 22:40	43103	SMIL_T2	16	20	4	0.58	0.58	0	0	0	0	0	0	0	0	0
5/31/2024 22:40	57401	SPAN_T1	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/31/2024 22:40	43102	SMIL_T2	6	7	1	0.3	0.47	0.17	0	0	0	0	0	0	0	0
5/31/2024 22:40	51401	LYKE_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
5/31/2024 22:40	63804	HEMP_T1	1	1	0	5.4	5.9	0.5	0	0	0	0	0	0	0	0
5/31/2024 22:40	67703	WERN_T2	0	0	0	0	0	0	-0.27	-0.3	1	1	0	900	900	0
5/31/2024 22:40	43402	BENT_T1	0	1	1	0	0.1	0.1	0	-0.01	0	0	0	0	0	0
5/31/2024 22:40	52403	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/31/2024 22:40	44502	HAMI_T2	1	1	0	3.6	3.6	0	-0.95	-0.91	0	0	0	0	0	0
5/31/2024 22:40	46504	LOHA_T1	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
5/31/2024 22:40	43202	MVIL_T2	126	169	43	1.01	0.94	-0.07	-0.74	-0.75	0	0	0	0	0	0
5/31/2024 22:40	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
5/31/2024 22:40	42503	ALTA_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
5/31/2024 22:40	52402	GRPA_T2	4	3	-1	0.23	0.23	0	0	0	0	0	0	0	0	0
5/31/2024 22:40	56801	BENV_T1	10	13	3	0.4	0.65	0.25	-1.49	-1.56	2	2	0	1200	1200	0
5/31/2024 22:40	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
5/31/2024 22:41	43302	WATS_T2	4	4	0	0.9	0.45	-0.45	0	0	2	2	0	1800	1800	0
5/31/2024 22:41	64101	REFR_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
5/31/2024 22:41	52402	GRPA_T2	4	3	-1	0.23	0.23	0	0	0	0	0	0	0	0	0
5/31/2024 22:41	67703	WERN_T2	0	0	0	0	0	0	-0.27	-0.3	1	1	0	900	900	0
5/31/2024 22:41	57303	MOAL_T2	1	1	0	7.1	6.7	-0.4	0	0	0	0	0	0	0	0
5/31/2024 22:41	42901	MIDD_T2	480	518	38	0.56	0.69	0.13	0	0	0	0	0	0	0	0
5/31/2024 22:41	23001	SAJO_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
5/31/2024 22:41	14403	SSLA_T1	0	0	0	0	0	0	0.61	0.56	0	0	0	0	0	0
5/31/2024 22:41	27201	YATE_T1	0	0	0	0	0	0	-0.44	-0.4	0	0	0	0	0	0
5/31/2024 22:41	58401	MORO_T1	0	0	0	0	0	0	-1.19	-1.17	1	1	0	600	600	0
5/31/2024 22:41	46301	ROHR_T1	284	292	8	0.52	0.51	-0.01	0	0	0	0	0	0	0	0
5/31/2024 22:41	13704	SOHN_T2	0	3	3	0	0.13	0.13	-0.42	-0.41	0	0	0	0	0	0
5/31/2024 22:41	60102	COCA_T1	0	0	0	0	0	0	0.83	0.76	2	2	0	1200	1200	0
5/31/2024 22:41	43102	SMIL_T2	6	7	1	0.3	0.47	0.17	-0.3	-0.3	0	0	0	0	0	0
5/31/2024 22:41	42903	MIDD_T2	82	93	11	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
5/31/2024 22:41	43105	SMIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:41	21206	ECAR_T2	1	1	0	8.1	8.2	0.1	-0.09	1.15	0	0	0	0	0	0
5/31/2024 22:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:41	14404	SSLA_T1	1	1	0	5.8	6.4	0.6	0	0	0	0	0	0	0	0
5/31/2024 22:41	54502	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
5/31/2024 22:41	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
5/31/2024 22:41	48301	ORWI_T1	2	2	0	5.25	5.8	0.55	0	0	0	0	0	0	0	0
5/31/2024 22:41	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:41	24204	PROV_T3	1	2	1	5.8	2.8	-3	0	0	0	0	0	0	0	0
5/31/2024 22:41	55002	NEWP_T1	5	3	-2	0.44	0.5	0.06	-0.28	-0.3	0	0	0	0	0	0
5/31/2024 22:41	57302	MOAL_T2	0	0	0	0	0	0	-1.64	-1.66	1	1	0	1200	1200	0
5/31/2024 22:41	20603	GRWO_T2	1	12	11	0.1	0.13	0.03	0.3	0.32	0	0	0	0	0	0
5/31/2024 22:41	52401	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/31/2024 22:41	42902	MIDD_T2	226	267	41	0.55	0.69	0.14	-1.38	-1.42	0	0	0	0	0	0
5/31/2024 22:41	43103	SMIL_T2	16	20	4	0.58	0.58	0	0	0	0	0	0	0	0	0
5/31/2024 22:41	29402	BELT_T1	1	1	0	8.6	9.1	0.5	0	0	0	0	0	0	0	0
5/31/2024 22:41	40901	JESH_T1	64	3	-61	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
5/31/2024 22:41	40903	JESH_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/31/2024 22:41	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	1	0	-1	900	0	-900
5/31/2024 22:41	43108	SMIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/31/2024 22:41	21204	ECAR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/31/2024 22:41	54505	ENOL_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
5/31/2024 22:41	46302	ROHR_T1	91	106	15	0.32	0.35	0.03	0.16	0.16	0	0	0	0	0	0
5/31/2024 22:41	57304	MOAL_T2	1	4	3	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
5/31/2024 22:41	52403	GRPA_T2	0	2	2	0	0.15	0.15	0	-0.02	0	0	0	0	0	0
5/31/2024 22:41	20601	GRWO_T2	6	51	45	0.13	0.17	0.04	0	0	0	0	0	0	0	0
5/31/2024 22:41	56801	BENV_T1	10	13	3	0.4	0.65	0.25	-0.75	-0.78	1	1	0	600	600	0
5/31/2024 22:41	45402	WBLO_T2	1	2	1	1	0.65	-0.35	-0.88	-0.87	0	0	0	0	0	0
5/31/2024 22:41	40902	JESH_T1	45	0	-45	0.11	0	-0.11	-1.52	-1.58	0	0	0	0	0	0
5/31/2024 22:41	61801	EELI_T2	1	1	0	0.4	0.7	0.3	-1.07	-1.09	1	1	0	600	600	0
5/31/2024 22:41	24201	PROV_T3	2	3	1	3.15	3.15	0	-1.46	-1.48	1	1	0	1200	1200	0
5/31/2024 22:41	45702	LIND_T2	1	1	0	0.6	0.2	-0.4	-0.47	-0.48	0	0	0	0	0	0
5/31/2024 22:41	54504	ENOL_T2	0	0	0	0	0	0	-1.16	-1.16	1	1	0	600	600	0
5/31/2024 22:42	58001	WCAR_T1	4	10	6	1.3	0.87	-0.43	0	0	0	0	0	0	0	0
5/31/2024 22:42	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
5/31/2024 22:42	10801	CHHI_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
5/31/2024 22:42	21203	ECAR_T1	0	6	6	0	0.15	0.15	0.44	0.42	0	0	0	0	0	0
5/31/2024 22:42	43201	MVIL_T2	2	2	0	0.15	0.35	0.2	-0.4	-0.4	0	0	0	0	0	0
5/31/2024 22:42	42901	MIDD_T2	480	518	38	0.56	0.69	0.13	0	0	0	0	0	0	0	0
5/31/2024 22:42	21705	SUBU_T1	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
5/31/2024 22:42	42903	MIDD_T2	82	93	11	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
5/31/2024 22:42	21704	SUBU_T1	0	0	0	0	0	0	-1.13	-1.13	1	1	0	1200	1200	0
5/31/2024 22:42	44702	MUNC_T2	15	0	-15	0.16	0	-0.16	0	0	0	0	0	0	0	0
5/31/2024 22:42	43202	MVIL_T2	126	169	43	1.01	0.94	-0.07	-0.74	-0.75	0	0	0	0	0	0
5/31/2024 22:42	57403	SPAN_T1	52	157	105	0.3	0.37	0.07	0.03	0.02	0	0	0	0	0	0
5/31/2024 22:42	44201	POIN_T1	184	263	79	0.25	0.3	0.05	-4.67	-4.61	4	4	0	4200	4200	0
5/31/2024 22:42	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
5/31/2024 22:42	52403	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
5/31/2024 22:42	46301	ROHR_T1	284	292	8	0.52	0.51	-0.01	0.19	0.2	0	0	0	0	0	0
5/31/2024 22:42	44701	MUNC_T2	243	0	-243	0.23	0	-0.23	-1.65	-1.66	0	0	0	0	0	0
5/31/2024 22:42	42201	SHEN_T2	0	0	0	0	0	0	1.1	1.15	0	0	0	0	0	0
5/31/2024 22:42	20603	GRWO_T2	1	12	11	0.1	0.13	0.03	0	0	0	0	0	0	0	0
5/31/2024 22:42	60501	NMAN_T2	3	3	0	4.9	5.6	0.7	0	0	0	0	0	0	0	0
5/31/2024 22:42	60502	NMAN_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/31/2024 22:42	56802	BENV_T2	1	1	0	0.3	0.3	0	-0.72	-0.72	0	0	0	0	0	0
5/31/2024 22:42	57401	SPAN_T1	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/31/2024 22:42	58003	WCAR_T1	3	70	67	0.73	0.32	-0.41	0.57	0.58	0	0	0	0	0	0
5/31/2024 22:42	58202	NEWV_T1	0	8	8	0	0.45	0.45	-0.07	0.02	0	0	0	0	0	0
5/31/2024 22:42	44703	MUNC_T2	2	2	0	1.15	0.8	-0.35	0	0	0	0	0	0	0	0
5/31/2024 22:42	21702	SUBU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:42	40901	JESH_T1	64	3	-61	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
5/31/2024 22:42	40903	JESH_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
5/31/2024 22:42	40902	JESH_T1	45	0	-45	0.11	0	-0.11	-1.52	-1.58	0	0	0	0	0	0
5/31/2024 22:42	42802	SELI_T1	1	1	0	1.1	0.7	-0.4	-0.92	-0.03	1	0	-1	900	0	-900
5/31/2024 22:42	46302	ROHR_T1	91	106	15	0.32	0.35	0.03	0	0	0	0	0	0	0	0
5/31/2024 22:42	52402	GRPA_T2	4	3	-1	0.23	0.23	0	-1.66	-1.72	0	0	0	0	0	0
5/31/2024 22:42	65901	SAKR_T2	1	1	0	8.9	9.3	0.4	0	0	0	0	0	0	0	0
5/31/2024 22:42	47104	MARL_T1	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
5/31/2024 22:42	13704	SCHN_T2	0	3	3	0	0.13	0.13	-0.42	-0.41	0	0	0	0	0	0
5/31/2024 22:42	64503	LAVI_T1	0	0	0	0	0	0	-0.51	-0.53	1	1	0	1200	1200	0
5/31/2024 22:42	53901	HALI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:42	67605	WARW_T1	5	14	9	0.2	0.58	0.38	-1.15	-1.16	0	0	0	0	0	0
5/31/2024 22:42	42902	MIDD_T2	226	267	41	0.55	0.69	0.14	-0.69	-0.71	0	0	0	0	0	0
5/31/2024 22:42	52401	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/31/2024 22:42	53903	HALI_T2	2	2	0	1.4	1.45	0.05	-0.2	-0.21	0	0	0	0	0	0
5/31/2024 22:42	56801	BENV_T1	10	13	3	0.4	0.65	0.25	-0.75	-0.78	1	1	0	600	600	0
5/31/2024 22:42	65904	SAKR_T2	0	0	0	0	0	0	-1.64	-1.67	3	3	0	1500	1500	0
5/31/2024 22:42	20601	GRWO_T2	6	51	45	0.13	0.17	0.04	-0.28	0.56	0	0	0	0	0	0
5/31/2024 22:42	65502	MOJO_T2	0	0	0	0	0	0	-2.04	-1.09	0	0	0	0	0	0
5/31/2024 22:42	14802	TREI_T2	0	0	0	0	0	0	0.39	0.33	0	0	0	0	0	0
5/31/2024 22:43	52401	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/31/2024 22:43	46803	HEPB_T2	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
5/31/2024 22:43	52403	GRPA_T2	0	2	2	0	0.15	0.15	0	-0.02	0	0	0	0	0	0
5/31/2024 22:43	64203	KINZ_T1	76	0	-76	0.27	0	-0.27	0.46	0.49	0	0	0	0	0	0
5/31/2024 22:43	64203	KINZ_T1	76	0	-76	0.27	0	-0.27	0.46	0.49	0	0	0	0	0	0
5/31/2024 22:43	64203	KINZ_T1	76	0	-76	0.27	0	-0.27	0.46	0.49	0	0	0	0	0	0
5/31/2024 22:43	64203	KINZ_T1	76	0	-76	0.27	0	-0.27	0.46	0.49	0	0	0	0	0	0
5/31/2024 22:43	57401	SPAN_T1	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
5/31/2024 22:43	67802	WLAN_T1	19	0	-19	0.22	0	-0.22	0	0	0	0	0	0	0	0
5/31/2024 22:43	56801	BENV_T1	10	13	3	0.4	0.65	0.25	-2.24	-2.34	3	3	0	1800	1800	0
5/31/2024 22:43	26603	BROO_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
5/31/2024 22:43	61801	EELI_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
5/31/2024 22:43	46004	BERW_T2	0	0	0	0	0	0	-0.63	-0.6	0	0	0	0	0	0
5/31/2024 22:43	67803	WLAN_T1	171	0	-171	0.12	0	-0.12	0	0	0	0	0	0	0	0
5/31/2024 22:43	67801	WLAN_T1	56	0	-56	0.13	0	-0.13	0	0	0	0	0	0	0	0
5/31/2024 22:43	64202	KINZ_T1	77	34	-43	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
5/31/2024 22:43	67605	WARW_T1	5	14	9	0.2	0.58	0.38	-1.15	-1.16	0	0	0	0	0	0
5/31/2024 22:43	67605	WARW_T1	5	14	9	0.2	0.58	0.38	-1.15	-1.16	0	0	0	0	0	0
5/31/2024 22:43	67605	WARW_T1	5	14	9	0.2	0.58	0.38	-1.15	-1.16	0	0	0	0	0	0
5/31/2024 22:43	67605	WARW_T1	5	14	9	0.2	0.58	0.38	-1.15	-1.16	0	0	0	0	0	0
5/31/2024 22:43	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
5/31/2024 22:43	46801	HEPB_T2	2	2	0	0.85	0.2	-0.65	0	0	0	0	0	0	0	0
5/31/2024 22:43	42503	ALTA_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
5/31/2024 22:43	64204	KINZ_T1	41	30	-11	0.67	0.32	-0.35	0	0	0	0	0	0	0	0
5/31/2024 22:43	67804	WLAN_T1	80	0	-80	0.15	0	-0.15	-1.01	-1.03	0	0	0	0	0	0
5/31/2024 22:43	58401	MORO_T1	0	0	0	0	0	0	-1.19	-1.17	1	1	0	600	600	0
5/31/2024 22:43	67805	WLAN_T1	552	24	-528	0.51	0.11	-0.4	-1.48	-1.5	0	0	0	0	0	0
5/31/2024 22:43	49804	UNIV_T1	0	0	0	0	0	0	0.45	0.4	0	0	0	0	0	0
5/31/2024 22:43	52402	GRPA_T2	4	3	-1	0.23	0.23	0	0	0	0	0	0	0	0	0
5/31/2024 22:43	40801	EXCH_T2	0	0	0	0	0	0	0.76	0.78	0	0	0	0	0	0
5/31/2024 22:43	61803	EELI_T2	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
5/31/2024 22:43	64201	KINZ_T1	71	9	-62	0.28	0.6	0.32	0	0	0	0	0	0	0	0
5/31/2024 22:43	64503	LAVI_T1	0	0	0	0	0	0	-0.51	-0.53	1	1	0	1200	1200	0
5/31/2024 22:43	40601	PIGR_T1	1	63	62	0.1	0.14	0.04	-0.23	-0.22	0	0	0	0	0	0
5/31/2024 22:43	45802	HEGI_T2	24	28	4	0.36	0.35	-0.01	1.04	1.05	0	0	0	0	0	0
5/31/2024 22:43	57403	SPAN_T1	52	157	105	0.3	0.37	0.07	0.03	0.02	0	0	0	0	0	0
5/31/2024 22:44	44201	POIN_T1	184	263	79	0.25	0.3	0.05	-2.33	-2.3	2	2	0	2100	2100	0
5/31/2024 22:44	42901	MIDD_T2	480	518	38	0.56	0.69	0.13	0	0	0	0	0	0	0	0
5/31/2024 22:44	46102	MACI_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
5/31/2024 22:44	53901	HALI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:44	67402	WAKE_T2	5	0	-5	0.2	0	-0.2	0.16	0.15	0	0	0	0	0	0
5/31/2024 22:44	44702	MUNC_T2	15	0	-15	0.16	0	-0.16	0	0	0	0	0	0	0	0
5/31/2024 22:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:44	58402	MORO_T1	0	0	0	0	0	0	-0.92	-0.94	4	4	0	3000	3000	0
5/31/2024 22:44	40101	HUNT_T2	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
5/31/2024 22:44	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
5/31/2024 22:44	42201	SHEN_T2	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
5/31/2024 22:44	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
5/31/2024 22:44	44703	MUNC_T2	2	2	0	1.15	0.8	-0.35	0	0	0	0	0	0	0	0
5/31/2024 22:44	44701	MUNC_T2	243	0	-243	0.23	0	-0.23	-1.65	-1.66	0	0	0	0	0	0
5/31/2024 22:44	43202	MVIL_T2	126	169	43	1.01	0.94	-0.07	-0.74	-0.75	0	0	0	0	0	0
5/31/2024 22:44	63305	GREE_T1	13	0	-13	0.24	0	-0.24	0	0	0	0	0	0	0	0
5/31/2024 22:44	52402	GRPA_T2	4	3	-1	0.23	0.23	0	0	0	0	0	0	0	0	0
5/31/2024 22:44	52401	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
5/31/2024 22:44	41901	REED_T1	0	8	8	0	0.23	0.23	0	0	0	0	0	0	0	0
5/31/2024 22:44	56801	BENV_T1	10	13	3	0.4	0.65	0.25	-1.49	-1.56	2	2	0	1200	1200	0
5/31/2024 22:44	53903	HALI_T2	2	2	0	1.4	1.45	0.05	-0.2	-0.21	0	0	0	0	0	0
5/31/2024 22:44	42902	MIDD_T2	226	267	41	0.55	0.69	0.14	-0.69	-0.71	0	0	0	0	0	0
5/31/2024 22:44	41902	REED_T1	0	0	0	0	0	0	0.86	0.82	0	0	0	0	0	0
5/31/2024 22:44	63304	GREE_T1	0	0	0	0	0	0	-0.45	-0.95	0	1	1	0	1200	1200
5/31/2024 22:44	43201	MVIL_T2	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
5/31/2024 22:44	67401	WAKE_T2	304	52	-252	0.48	0.19	-0.29	0	0	0	0	0	0	0	0
5/31/2024 22:44	42903	MIDD_T2	82	93	11	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
5/31/2024 22:44	52403	GRPA_T2	0	2	2	0	0.15	0.15	0	-0.02	0	0	0	0	0	0
5/31/2024 22:44	67002	STHI_T2	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
5/31/2024 22:45	56802	BENV_T2	1	1	0	0.2	0.4	0.2	-0.72	-0.72	0	0	0	0	0	0
5/31/2024 22:45	56803	BENV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/31/2024 22:45	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:45	46004	BERW_T2	0	0	0	0	0	0	-0.63	-0.6	0	0	0	0	0	0
5/31/2024 22:45	50502	MECH_T1	1	1	0	2.1	2.6	0.5	0	0	0	0	0	0	0	0
5/31/2024 22:45	43301	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	2	0	-2	1800	0	-1800
5/31/2024 22:45	14601	SWHI_T1	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
5/31/2024 22:45	43802	SWIL_T1	0	0	0	0	0	0	-0.06	-0.06	1	1	0	600	600	0
5/31/2024 22:45	49804	UNIV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/31/2024 22:45	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
5/31/2024 22:45	53902	HALI_T2	1	1	0	5.6	5	-0.6	0	0	0	0	0	0	0	0
5/31/2024 22:45	53903	HALI_T2	2	2	0	1.45	1	-0.45	-0.2	-0.21	0	0	0	0	0	0
5/31/2024 22:45	43801	SWIL_T1	2	3	1	3.05	2.13	-0.92	0	0	0	0	0	0	0	0
5/31/2024 22:45	50501	MECH_T1	4	4	0	0.83	1.15	0.32	-0.21	-0.11	0	0	0	0	0	0
5/31/2024 22:45	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:45	49803	UNIV_T1	0	0	0	0	0	0	0.11	0.05	0	0	0	0	0	0
5/31/2024 22:45	53901	HALI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/31/2024 22:45	43302	WATS_T2	4	3	-1	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
5/31/2024 22:45	56801	BENV_T1	12	16	4	0.62	0.95	0.33	-0.75	-0.78	1	1	0	600	600	0
5/31/2024 22:46	43301	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	1	0	-1	900	0	-900
5/31/2024 22:46	52002	LING_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
5/31/2024 22:46	42902	MIDD_T2	223	278	55	0.6	0.71	0.11	-0.69	-0.71	0	0	0	0	0	0
5/31/2024 22:46	42903	MIDD_T2	66	101	35	0.34	0.36	0.02	0	0	0	0	0	0	0	0
5/31/2024 22:46	46001	BERW_T1	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
5/31/2024 22:46	56803	BENV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/31/2024 22:46	43302	WATS_T2	4	3	-1	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
5/31/2024 22:46	52006	LING_T2	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
5/31/2024 22:46	56801	BENV_T1	12	16	4	0.62	0.95	0.33	-0.75	-0.78	1	1	0	600	600	0
5/31/2024 22:46	52004	LING_T2	0	1	1	0	0.5	0.5	0.15	0.11	0	0	0	0	0	0
5/31/2024 22:46	42901	MIDD_T2	472	528	56	0.58	0.73	0.15	0	0	0	0	0	0	0	0
5/31/2024 22:46	67703	WERN_T2	0	0	0	0	0	0	-0.27	-0.3	1	1	0	900	900	0
5/31/2024 22:47	53903	HALI_T2	2	2	0	1.45	1	-0.45	0	0	0	0	0	0	0	0
5/31/2024 22:47	53901	HALI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
5/31/2024 22:47	55002	NEWP_T1	3	4	1	0.47	0.53	0.06	-0.28	-0.3	0	0	0	0	0	0
5/31/2024 22:47	56802	BENV_T2	1	1	0	0.2	0.4	0.2	-0.72	-0.72	0	0	0	0	0	0
5/31/2024 22:47	55001	NEWP_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
5/31/2024 22:47	53902	HALI_T2	1	1	0	5.6	5	-0.6	-0.22	-0.25	0	0	0	0	0	0
5/31/2024 22:47	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:48	40801	EXCH_T2	0	0	0	0	0	0	1.52	1.56	0	0	0	0	0	0
5/31/2024 22:48	43103	SMIL_T2	17	20	3	0.62	0.54	-0.08	0	0	0	0	0	0	0	0
5/31/2024 22:48	43101	SMIL_T2	0	0	0	0	0	0	-0.73	-0.75	0	0	0	0	0	0
5/31/2024 22:48	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:48	56801	BENV_T1	12	16	4	0.62	0.95	0.33	-0.75	-0.78	1	1	0	600	600	0
5/31/2024 22:48	40101	HUNT_T2	0	1	1	0	0	0	-0.72	-0.75	0	0	0	0	0	0
5/31/2024 22:48	56803	BENV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
5/31/2024 22:48	52403	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
5/31/2024 22:48	42102	FRAI_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
5/31/2024 22:48	43108	SMIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
5/31/2024 22:48	43105	SMIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:48	46101	MACI_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
5/31/2024 22:48	43102	SMIL_T2	7	7	0	0.29	0.47	0.18	0	0	0	0	0	0	0	0
5/31/2024 22:48	52402	GRPA_T2	3	4	1	0.1	0.48	0.38	-0.83	-0.86	0	0	0	0	0	0
5/31/2024 22:49	44201	POIN_T1	192	306	114	0.25	0.31	0.06	-2.33	-2.3	2	2	0	2100	2100	0
5/31/2024 22:49	65003	NEFF_T2	0	0	0	0	0	0	-0.75	-0.82	1	1	0	600	600	0
5/31/2024 22:49	22405	MORG_T2	0	0	0	0	0	0	-0.22	-0.18	0	0	0	0	0	0
5/31/2024 22:49	65001	NEFF_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
5/31/2024 22:49	41902	REED_T1	0	0	0	0	0	0	0.86	0.82	0	0	0	0	0	0
5/31/2024 22:49	43402	BENT_T1	1	0	-1	0.1	0	-0.1	0	-0.01	0	0	0	0	0	0
5/31/2024 22:49	41901	REED_T1	2	9	7	0.15	0.28	0.13	0	0	0	0	0	0	0	0
5/31/2024 22:50	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 22:50	42802	SELI_T1	1	1	0	0.7	0.5	-0.2	-0.92	-0.03	1	0	-1	900	0	-900
5/31/2024 23:11	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2024 23:11	52403	GRPA_T2	2	2	0	0.15	0.35	0.2	-0.04	-0.05	0	0	0	0	0	0
5/31/2024 23:11	52402	GRPA_T2	1	4	3	0.5	0.55	0.05	0	0	0	0	0	0	0	0
5/31/2024 23:11	52401	GRPA_T2	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
5/31/2024 23:12	59201	THOM_T1	12	18	6	0.17	0.28	0.11	0	0	0	0	0	0	0	0
5/31/2024 23:12	59202	THOM_T1	88	233	145	0.14	0.24	0.1	0	0	0	0	0	0	0	0
5/31/2024 23:15	62601	ENGL_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
5/31/2024 23:23	65901	SAKR_T2	1	1	0	9.4	9.5	0.1	-1.45	-1.5	1	1	0	900	900	0
5/31/2024 23:40	24105	EHAZ_T1	4	4	0	6.28	6.23	-0.05	0	0	0	0	0	0	0	0
5/31/2024 23:40	24102	EHAZ_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
5/31/2024 23:41	67605	WARW_T1	23	14	-9	0.59	0.48	-0.11	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
5/31/2024 23:41	67603	WARW_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
5/31/2024 23:50	51402	LYKE_T1	19	3	-16	0.13	0.1	-0.03	-1.03	-0.98	0	0	0	0	0	0
5/31/2024 23:58	13905	SEID_T1	0	0	0	0	0	0	-1.04	-1.07	1	1	0	1200	1200	0
6/1/2024 0:04	65702	RVIL_T2	0	0	0	0	0	0	-1.08	-1.05	1	1	0	600	600	0
6/1/2024 0:48	29402	BELT_T1	1	1	0	8	8	0	0	0	0	0	0	0	0	0
6/1/2024 0:48	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/1/2024 2:16	43402	BENT_T1	68	72	4	0.2	0.23	0.03	-0.98	-0.99	1	1	0	900	900	0
6/1/2024 2:17	43402	BENT_T1	68	72	4	0.2	0.23	0.03	-0.98	-0.99	1	1	0	900	900	0
6/1/2024 2:36	43402	BENT_T1	72	3	-69	0.23	0.53	0.3	-0.99	-1	1	1	0	900	900	0
6/1/2024 2:37	43402	BENT_T1	72	3	-69	0.23	0.53	0.3	-0.99	-1	1	1	0	900	900	0
6/1/2024 2:56	43402	BENT_T1	3	3	0	0.53	0.43	-0.1	-0.98	-0.99	1	1	0	900	900	0
6/1/2024 2:57	43402	BENT_T1	3	3	0	0.53	0.43	-0.1	-0.98	-0.99	1	1	0	900	900	0
6/1/2024 2:59	28403	HART_T2	0	0	0	0	0	0	-1.08	-1.06	1	1	0	900	900	0
6/1/2024 3:24	64202	KINZ_T1	73	60	-13	0.44	0.37	-0.07	0	0	0	0	0	0	0	0
6/1/2024 3:24	64204	KINZ_T1	50	42	-8	0.49	0.43	-0.06	0	0	0	0	0	0	0	0
6/1/2024 3:24	64201	KINZ_T1	100	91	-9	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
6/1/2024 3:24	64203	KINZ_T1	199	133	-66	0.27	0.2	-0.07	0.16	0.16	0	0	0	0	0	0
6/1/2024 3:25	64204	KINZ_T1	50	42	-8	0.49	0.43	-0.06	0	0	0	0	0	0	0	0
6/1/2024 3:25	64203	KINZ_T1	199	133	-66	0.27	0.2	-0.07	0.16	0.16	0	0	0	0	0	0
6/1/2024 3:25	64202	KINZ_T1	73	60	-13	0.44	0.37	-0.07	0	0	0	0	0	0	0	0
6/1/2024 3:25	64201	KINZ_T1	100	91	-9	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
6/1/2024 3:37	43402	BENT_T1	3	3	0	0.4	0.2	-0.2	-0.97	-0.99	1	1	0	900	900	0
6/1/2024 3:38	43402	BENT_T1	3	3	0	0.4	0.2	-0.2	-0.99	-0.97	1	1	0	900	900	0
6/1/2024 6:08	29402	BELT_T1	0	99	99	0	0.6	0.6	0	0	0	0	0	0	0	0
6/1/2024 6:08	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/1/2024 6:16	11506	FREE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/1/2024 6:16	11507	FREE_T2	0	2	2	0	0	0	0.71	1.51	0	0	0	0	0	0
6/1/2024 6:16	11503	FREE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/1/2024 6:20	52501	PROG_T1	0	0	0	0	0	0	0.24	0.29	1	1	0	300	300	0
6/1/2024 6:23	67703	WERN_T2	0	0	0	0	0	0	-0.44	-0.46	1	1	0	900	900	0
6/1/2024 6:24	67703	WERN_T2	0	0	0	0	0	0	-0.44	-0.46	1	1	0	900	900	0
6/1/2024 6:25	15001	BLMO_T1	4	4	0	0.53	0.33	-0.2	0	0	0	0	0	0	0	0
6/1/2024 6:36	14703	TREX_T2	6	1	-5	0.15	0.2	0.05	0	0	0	0	0	0	0	0
6/1/2024 6:36	44901	SCOT_T2	8	13	5	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
6/1/2024 6:36	44902	SCOT_T2	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
6/1/2024 6:36	14702	TREX_T2	0	0	0	0	0	0	0.62	0.78	0	0	0	0	0	0
6/1/2024 6:37	14702	TREX_T2	0	0	0	0	0	0	0.62	0.78	0	0	0	0	0	0
6/1/2024 6:37	14703	TREX_T2	6	1	-5	0.15	0.2	0.05	0	0	0	0	0	0	0	0
6/1/2024 6:38	14702	TREX_T2	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
6/1/2024 6:38	67703	WERN_T2	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
6/1/2024 6:38	14703	TREX_T2	6	1	-5	0.15	0.2	0.05	0	0	0	0	0	0	0	0
6/1/2024 6:39	14703	TREX_T2	6	1	-5	0.15	0.2	0.05	0	0	0	0	0	0	0	0
6/1/2024 6:39	16301	ALPA_T1	1	1	0	0.3	0.3	0	-0.61	-0.57	0	0	0	0	0	0
6/1/2024 6:39	14702	TREX_T2	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
6/1/2024 6:40	20103	AVOC_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
6/1/2024 6:40	67703	WERN_T2	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
6/1/2024 6:46	64501	LAVI_T1	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
6/1/2024 6:49	44901	SCOT_T2	6	26	20	0.1	0.18	0.08	-0.46	-0.45	0	0	0	0	0	0
6/1/2024 6:49	13802	SALI_T1	0	14	14	0	0	0	0	0	0	0	0	0	0	0
6/1/2024 6:49	13807	SALI_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
6/1/2024 6:52	45901	AUBU_T1	0	0	0	0	0	0	1.01	1.01	0	0	0	0	0	0
6/1/2024 6:52	45902	AUBU_T1	10	11	1	0.13	0.13	0	0	0	0	0	0	0	0	0
6/1/2024 6:53	45901	AUBU_T1	0	0	0	0	0	0	1.01	1.02	0	0	0	0	0	0
6/1/2024 6:53	45902	AUBU_T1	10	11	1	0.13	0.13	0	0	0	0	0	0	0	0	0
6/1/2024 6:53	44301	BEAV_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/1/2024 6:53	67503	WEWI_T2	0	0	0	0	0	0	-0.39	-0.36	0	0	0	0	0	0
6/1/2024 6:53	44302	BEAV_T2	2	3	1	0.15	0.13	-0.02	1.23	1.35	0	0	0	0	0	0
6/1/2024 6:54	29402	BELT_T1	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
6/1/2024 6:54	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/1/2024 6:55	46401	FLEM_T2	4	17	13	0.1	0.16	0.06	0.39	0.36	0	0	0	0	0	0
6/1/2024 6:55	46402	FLEM_T2	11	20	9	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/1/2024 7:03	44702	MUNC_T2	48	25	-23	0.18	0.14	-0.04	0	0	0	0	0	0	0	0
6/1/2024 7:03	67303	WYOM_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
6/1/2024 7:03	47001	HUGH_T2	0	0	0	0	0	0	-0.59	-0.56	0	0	0	0	0	0
6/1/2024 7:03	67702	WERN_T2	0	0	0	0	0	0	-0.84	-0.48	0	0	0	0	0	0
6/1/2024 7:03	45702	LIND_T2	1	0	-1	0.1	0	-0.1	-1.06	-1.04	0	0	0	0	0	0
6/1/2024 7:03	43301	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/1/2024 7:03	43302	WATS_T2	4	4	0	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
6/1/2024 7:03	41202	KENM_T2	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
6/1/2024 7:03	46301	ROHR_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
6/1/2024 7:03	44703	MUNC_T2	2	2	0	1	0.6	-0.4	0.6	0.59	0	0	0	0	0	0
6/1/2024 7:03	46503	LOHA_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
6/1/2024 7:03	46302	ROHR_T1	4	4	0	2.1	1.75	-0.35	0	0	0	0	0	0	0	0
6/1/2024 7:03	67603	WARW_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
6/1/2024 7:03	46504	LOHA_T1	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
6/1/2024 7:03	44701	MUNC_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/1/2024 7:03	67605	WARW_T1	16	15	-1	0.74	0.66	-0.08	0	0	0	0	0	0	0	0
6/1/2024 7:03	46501	LOHA_T1	0	0	0	0	0	0	-0.21	-0.17	1	1	0	1200	1200	0
6/1/2024 7:03	44201	POIN_T1	356	163	-193	0.22	0.18	-0.04	-1.68	-1.6	1	1	0	1200	1200	0
6/1/2024 7:03	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/1/2024 7:03	46506	LOHA_T1	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
6/1/2024 7:03	46801	HEPB_T2	2	2	0	0.2	0.2	0	0.94	0.92	0	0	0	0	0	0
6/1/2024 7:04	43108	SMIL_T2	0	0	0	0	0	0	-1.81	-1.81	2	2	0	2400	2400	0
6/1/2024 7:04	43102	SMIL_T2	6	3	-3	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/1/2024 7:04	46803	HEPB_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
6/1/2024 7:04	44703	MUNC_T2	2	2	0	1	0.6	-0.4	0.6	0.59	0	0	0	0	0	0
6/1/2024 7:04	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/1/2024 7:04	46503	LOHA_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
6/1/2024 7:04	47001	HUGH_T2	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
6/1/2024 7:04	45702	LIND_T2	1	0	-1	0.1	0	-0.1	-1.06	-1.04	0	0	0	0	0	0
6/1/2024 7:04	46801	HEPB_T2	2	2	0	0.2	0.2	0	0.94	0.92	0	0	0	0	0	0
6/1/2024 7:04	44701	MUNC_T2	1	0	-1	0.1	0	-0.1	-3.36	-3.32	0	0	0	0	0	0
6/1/2024 7:04	44201	POIN_T1	356	163	-193	0.22	0.18	-0.04	-8.38	-8.01	5	5	0	6000	6000	0
6/1/2024 7:04	49804	UNIV_T1	1	1	0	0.8	0.2	-0.6	0.32	0.31	0	0	0	0	0	0
6/1/2024 7:04	46506	LOHA_T1	1	1	0	0.9	0.6	-0.3	-0.49	-0.49	0	0	0	0	0	0
6/1/2024 7:04	43101	SMIL_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/1/2024 7:04	46504	LOHA_T1	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
6/1/2024 7:04	46001	BERW_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
6/1/2024 7:04	41202	KENM_T2	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
6/1/2024 7:04	67702	WERN_T2	0	0	0	0	0	0	-0.7	-0.4	0	0	0	0	0	0
6/1/2024 7:04	67303	WYOM_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
6/1/2024 7:04	43301	WATS_T2	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
6/1/2024 7:04	46005	BERW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/1/2024 7:04	43802	SWIL_T1	0	0	0	0	0	0	-0.23	-0.24	1	1	0	600	600	0
6/1/2024 7:04	46501	LOHA_T1	0	0	0	0	0	0	-0.21	-0.17	1	1	0	1200	1200	0
6/1/2024 7:04	43801	SWIL_T1	2	2	0	3.1	3.15	0.05	0	0	0	0	0	0	0	0
6/1/2024 7:04	40902	JESH_T1	0	0	0	0	0	0	-3.56	-3.64	0	0	0	0	0	0
6/1/2024 7:04	44702	MUNC_T2	48	25	-23	0.18	0.14	-0.04	0	0	0	0	0	0	0	0
6/1/2024 7:04	43302	WATS_T2	4	4	0	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
6/1/2024 7:04	46301	ROHR_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
6/1/2024 7:04	46302	ROHR_T1	4	4	0	2.1	1.75	-0.35	0	0	0	0	0	0	0	0
6/1/2024 7:04	43103	SMIL_T2	16	15	-1	0.29	0.24	-0.05	0	0	0	0	0	0	0	0
6/1/2024 7:04	46004	BERW_T2	0	0	0	0	0	0	-0.79	-0.75	0	0	0	0	0	0
6/1/2024 7:06	26402	INOR_T1	6	1	-5	0.25	0	-0.25	-0.49	-0.45	0	0	0	0	0	0
6/1/2024 7:09	47001	HUGH_T2	0	0	0	0	0	0	-0.28	-0.35	0	0	0	0	0	0
6/1/2024 7:09	43301	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/1/2024 7:09	43302	WATS_T2	4	4	0	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
6/1/2024 7:12	67605	WARW_T1	16	15	-1	0.74	0.66	-0.08	-1.23	-1.19	0	0	0	0	0	0
6/1/2024 7:13	29402	BELT_T1	0	181	181	0	0.88	0.88	0	0	0	0	0	0	0	0
6/1/2024 7:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/1/2024 7:15	67702	WERN_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
6/1/2024 7:16	67703	WERN_T2	0	0	0	0	0	0	-0.42	-0.42	1	1	0	900	900	0
6/1/2024 7:16	14702	TREX_T2	0	0	0	0	0	0	0.87	0.76	0	0	0	0	0	0
6/1/2024 7:17	67603	WARW_T1	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
6/1/2024 7:17	13303	ORVI_T1	0	2	2	0	0.1	0.1	0.61	0.56	0	0	0	0	0	0
6/1/2024 7:17	67605	WARW_T1	15	14	-1	0.59	0.71	0.12	0	0	0	0	0	0	0	0
6/1/2024 7:17	12006	HATF_T1	0	0	0	0	0	0	0.5	0.58	0	0	0	0	0	0
6/1/2024 7:19	15203	SFAR_T2	59	68	9	0.16	0.17	0.01	-1.37	-1.34	0	0	0	0	0	0
6/1/2024 7:20	43202	MVIL_T2	50	52	2	0.23	0.24	0.01	-0.79	-0.77	0	0	0	0	0	0
6/1/2024 7:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/1/2024 7:31	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/1/2024 7:31	13303	ORVI_T1	2	3	1	0.1	0.13	0.03	0.56	0.6	0	0	0	0	0	0
6/1/2024 7:32	43202	MVIL_T2	51	46	-5	0.23	0.24	0.01	-0.77	-0.77	0	0	0	0	0	0
6/1/2024 7:33	13501	MCMI_T1	0	0	0	0	0	0	-0.01	0.04	0	0	0	0	0	0
6/1/2024 7:34	44701	MUNC_T2	0	0	0	0	0	0	-1.65	-1.63	0	0	0	0	0	0
6/1/2024 7:34	44702	MUNC_T2	19	10	-9	0.14	0.17	0.03	0	0	0	0	0	0	0	0
6/1/2024 7:35	53803	MBRG_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
6/1/2024 7:37	40101	HUNT_T2	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
6/1/2024 7:38	45902	AUBU_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/1/2024 7:38	45901	AUBU_T1	0	0	0	0	0	0	1.02	1	0	0	0	0	0	0
6/1/2024 7:39	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/1/2024 7:39	29402	BELT_T1	181	164	-17	0.88	0.81	-0.07	0	0	0	0	0	0	0	0
6/1/2024 7:39	45501	DERR_T2	0	0	0	0	0	0	0	0.11	2	2	0	1800	1800	0
6/1/2024 7:40	46401	FLEM_T2	1	8	7	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
6/1/2024 7:40	46402	FLEM_T2	0	12	12	0	0.1	0.1	0.49	0.53	0	0	0	0	0	0
6/1/2024 7:41	40505	CRES_T1	3	3	0	6.13	5.87	-0.26	0.24	0.23	0	0	0	0	0	0
6/1/2024 7:42	40505	CRES_T1	3	3	0	6.13	5.87	-0.26	0	0	0	0	0	0	0	0
6/1/2024 7:42	40504	CRES_T1	0	0	0	0	0	0	-1.42	-1.24	0	0	0	0	0	0
6/1/2024 7:43	40505	CRES_T1	3	3	0	6.13	5.87	-0.26	0.72	0.69	0	0	0	0	0	0
6/1/2024 7:44	63305	GREE_T1	0	0	0	0	0	0	-2.39	-2.49	1	1	0	900	900	0
6/1/2024 7:47	58401	MORO_T1	0	0	0	0	0	0	-1.14	-1.18	1	1	0	600	600	0
6/1/2024 7:49	46302	ROHR_T1	2	4	2	3.05	1.83	-1.22	0.14	0.13	0	0	0	0	0	0
6/1/2024 7:50	44201	POIN_T1	98	127	29	0.17	0.17	0	-1.63	-1.65	1	1	0	1200	1200	0
6/1/2024 7:51	67505	WEWI_T1	0	0	0	0	0	0	-0.4	-0.37	1	1	0	900	900	0
6/1/2024 7:52	14404	SSLA_T1	1	1	0	4.8	4.6	-0.2	0	0	0	0	0	0	0	0
6/1/2024 7:52	14403	SSLA_T1	0	0	0	0	0	0	0.44	0.48	0	0	0	0	0	0
6/1/2024 7:53	45902	AUBU_T1	0	1	1	0	0.8	0.8	-0.47	-0.5	0	0	0	0	0	0
6/1/2024 7:54	20403	ASHF_T2	0	0	0	0	0	0	0	0.06	0	0	0	0	0	0
6/1/2024 7:54	67505	WEWI_T1	0	0	0	0	0	0	-0.37	-0.32	1	1	0	900	900	0
6/1/2024 7:54	14702	TREX_T2	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
6/1/2024 7:54	45902	AUBU_T1	0	1	1	0	0.8	0.8	-0.47	-0.5	0	0	0	0	0	0
6/1/2024 7:55	67703	WERN_T2	0	0	0	0	0	0	-0.39	-0.4	1	1	0	900	900	0
6/1/2024 7:55	59101	WALK_T2	0	0	0	0	0	0	-0.7	-0.76	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/1/2024 7:55	56802	BENV_T2	0	0	0	0	0	0	-2.86	-2.94	0	0	0	0	0	0
6/1/2024 7:58	53501	EVIL_T2	10	9	-1	0.52	0.43	-0.09	0	0	0	0	0	0	0	0
6/1/2024 7:58	56802	BENV_T2	0	0	0	0	0	0	-1.43	-1.47	0	0	0	0	0	0
6/1/2024 7:58	53502	EVIL_T2	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
6/1/2024 7:59	20601	GRWO_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
6/1/2024 7:59	53501	EVIL_T2	10	9	-1	0.52	0.43	-0.09	-2.46	-2.33	0	0	0	0	0	0
6/1/2024 8:01	53501	EVIL_T2	9	6	-3	0.41	0.48	0.07	-0.82	-0.78	0	0	0	0	0	0
6/1/2024 8:01	12505	MITR_T2	0	0	0	0	0	0	3.24	3.38	0	0	0	0	0	0
6/1/2024 8:01	12502	MITR_T2	1	1	0	6.5	6.7	0.2	0	0	0	0	0	0	0	0
6/1/2024 8:03	58401	MORO_T1	0	0	0	0	0	0	-1.18	-1.15	1	1	0	600	600	0
6/1/2024 8:07	58401	MORO_T1	0	0	0	0	0	0	-1.18	-1.15	1	1	0	600	600	0
6/1/2024 8:10	20403	ASHF_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
6/1/2024 8:11	21203	ECAR_T1	0	0	0	0	0	0	0.38	0.41	0	0	0	0	0	0
6/1/2024 8:11	58401	MORO_T1	0	0	0	0	0	0	-1.15	-1.16	1	1	0	600	600	0
6/1/2024 8:11	56802	BENV_T2	0	0	0	0	0	0	-1.47	-1.44	0	0	0	0	0	0
6/1/2024 8:12	15702	TANN_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
6/1/2024 8:12	15703	TANN_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
6/1/2024 8:12	45501	DERR_T2	0	0	0	0	0	0	0.1	0.17	2	2	0	1800	1800	0
6/1/2024 8:13	41502	FAIR_T2	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
6/1/2024 8:13	67703	WERN_T2	0	0	0	0	0	0	-0.4	-0.35	1	1	0	900	900	0
6/1/2024 8:15	46801	HEPB_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
6/1/2024 8:15	51402	LYKE_T1	0	0	0	0	0	0	-0.93	-0.95	0	0	0	0	0	0
6/1/2024 8:18	45501	DERR_T2	0	0	0	0	0	0	0.1	0.17	2	2	0	1800	1800	0
6/1/2024 8:19	24204	PROV_T3	1	1	0	6.5	6.1	-0.4	0	0	0	0	0	0	0	0
6/1/2024 8:19	46302	ROHR_T1	4	5	1	1.78	1.43	-0.35	0.14	0.15	0	0	0	0	0	0
6/1/2024 8:19	24201	PROV_T3	1	1	0	7.1	6.8	-0.3	-0.1	-0.01	0	0	0	0	0	0
6/1/2024 8:21	14404	SSLA_T1	1	1	0	4.5	4.3	-0.2	0	0	0	0	0	0	0	0
6/1/2024 8:21	14403	SSLA_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
6/1/2024 8:23	29402	BELT_T1	95	101	6	0.82	0.89	0.07	0	0	0	0	0	0	0	0
6/1/2024 8:25	29402	BELT_T1	95	101	6	0.82	0.89	0.07	0	0	0	0	0	0	0	0
6/1/2024 8:25	26603	BROO_T1	1	1	0	0.1	0.2	0.1	0.36	0.39	0	0	0	0	0	0
6/1/2024 8:25	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/1/2024 8:26	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.05	0.06	0	0	0	0	0	0
6/1/2024 8:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/1/2024 8:26	53501	EVIL_T2	6	6	0	0.47	0.38	-0.09	-0.73	-0.77	0	0	0	0	0	0
6/1/2024 8:26	29402	BELT_T1	95	101	6	0.82	0.89	0.07	0	0	0	0	0	0	0	0
6/1/2024 8:27	29402	BELT_T1	95	101	6	0.82	0.89	0.07	0	0	0	0	0	0	0	0
6/1/2024 8:28	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/1/2024 8:28	29402	BELT_T1	95	101	6	0.82	0.89	0.07	0	0	0	0	0	0	0	0
6/1/2024 8:29	26603	BROO_T1	1	1	0	0.1	0.2	0.1	0.36	0.39	0	0	0	0	0	0
6/1/2024 8:34	58401	MORO_T1	0	0	0	0	0	0	-1.16	-1.11	1	1	0	600	600	0
6/1/2024 8:38	44302	BEAV_T2	2	64	62	0.2	0.23	0.03	1.1	1.31	0	0	0	0	0	0
6/1/2024 8:38	44301	BEAV_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
6/1/2024 8:39	45902	AUBU_T1	1	3	2	1	0.63	-0.37	-0.92	-0.98	0	0	0	0	0	0
6/1/2024 8:39	56803	BENV_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
6/1/2024 8:39	56801	BENV_T1	3	6	3	0.4	1.37	0.97	0	0	0	0	0	0	0	0
6/1/2024 8:40	56803	BENV_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
6/1/2024 8:40	56801	BENV_T1	3	6	3	0.4	1.37	0.97	0	0	0	0	0	0	0	0
6/1/2024 8:41	45902	AUBU_T1	1	3	2	1	0.63	-0.37	-0.46	-0.49	0	0	0	0	0	0
6/1/2024 8:41	56801	BENV_T1	3	6	3	0.4	1.37	0.97	-2.6	-2.76	4	4	0	2400	2400	0
6/1/2024 8:42	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
6/1/2024 8:42	29402	BELT_T1	98	100	2	0.89	0.81	-0.08	0	0	0	0	0	0	0	0
6/1/2024 8:42	56801	BENV_T1	3	6	3	0.4	1.37	0.97	-3.25	-3.45	5	5	0	3000	3000	0
6/1/2024 8:43	56803	BENV_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
6/1/2024 8:43	56801	BENV_T1	3	6	3	0.4	1.37	0.97	-2.6	-2.76	4	4	0	2400	2400	0
6/1/2024 8:44	56801	BENV_T1	3	6	3	0.4	1.37	0.97	-1.95	-2.07	3	3	0	1800	1800	0
6/1/2024 8:45	56801	BENV_T1	1	7	6	0.8	1.21	0.41	-0.65	-0.69	1	1	0	600	600	0
6/1/2024 8:45	47001	HUGH_T2	0	0	0	0	0	0	-1	-0.91	0	0	0	0	0	0
6/1/2024 8:46	47001	HUGH_T2	0	0	0	0	0	0	-1	-0.91	0	0	0	0	0	0
6/1/2024 8:49	42903	MIDD_T2	250	245	-5	0.58	0.59	0.01	0	0	0	0	0	0	0	0
6/1/2024 8:49	58401	MORO_T1	0	0	0	0	0	0	-1.11	-1.06	1	1	0	600	600	0
6/1/2024 8:49	42901	MIDD_T2	644	580	-64	0.62	0.64	0.02	0	0	0	0	0	0	0	0
6/1/2024 8:49	42902	MIDD_T2	306	286	-20	0.79	0.77	-0.02	-0.65	-0.64	0	0	0	0	0	0
6/1/2024 8:52	58401	MORO_T1	0	0	0	0	0	0	-1.11	-1.06	1	1	0	600	600	0
6/1/2024 8:52	58706	ROSE_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
6/1/2024 8:52	58705	ROSE_T2	5	5	0	1.44	1.26	-0.18	0	0	0	0	0	0	0	0
6/1/2024 8:52	58702	ROSE_T2	0	0	0	0	0	0	-1.59	-1.57	0	0	0	0	0	0
6/1/2024 8:53	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/1/2024 8:53	58705	ROSE_T2	5	5	0	1.44	1.26	-0.18	0	0	0	0	0	0	0	0
6/1/2024 8:53	58706	ROSE_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
6/1/2024 8:53	58702	ROSE_T2	0	0	0	0	0	0	-1.57	-1.52	0	0	0	0	0	0
6/1/2024 8:54	45902	AUBU_T1	1	3	2	1.1	1.13	0.03	-0.49	-0.47	0	0	0	0	0	0
6/1/2024 10:00	46002	BERW_T2	1	0	-1	0.1	0	-0.1	-1.23	-1.22	1	1	0	900	900	0
6/1/2024 13:45	56803	BENV_T1	1	1	0	1.7	2	0.3	0	0	0	0	0	0	0	0
6/1/2024 13:45	56801	BENV_T1	11	17	6	1.01	0.85	-0.16	-0.39	-0.37	1	1	0	600	600	0
6/1/2024 13:46	56803	BENV_T1	1	1	0	1.7	2	0.3	0	0	0	0	0	0	0	0
6/1/2024 13:46	56801	BENV_T1	11	17	6	1.01	0.85	-0.16	-1.56	-1.48	4	4	0	2400	2400	0
6/1/2024 13:47	56803	BENV_T1	1	1	0	1.7	2	0.3	0	0	0	0	0	0	0	0
6/1/2024 13:47	56801	BENV_T1	11	17	6	1.01	0.85	-0.16	-1.95	-1.85	5	5	0	3000	3000	0
6/1/2024 13:48	56803	BENV_T1	1	1	0	1.7	2	0.3	0	0	0	0	0	0	0	0
6/1/2024 13:48	56801	BENV_T1	11	17	6	1.01	0.85	-0.16	-1.56	-1.48	4	4	0	2400	2400	0
6/1/2024 13:49	56803	BENV_T1	1	1	0	1.7	2	0.3	0	0	0	0	0	0	0	0
6/1/2024 13:49	56801	BENV_T1	11	17	6	1.01	0.85	-0.16	-1.56	-1.48	4	4	0	2400	2400	0
6/1/2024 13:50	45501	DERR_T2	4	4	0	0.58	0.65	0.07	-0.19	-0.35	2	2	0	1800	1800	0
6/1/2024 13:50	56801	BENV_T1	11	17	6	1.01	0.85	-0.16	-0.78	-0.74	2	2	0	1200	1200	0
6/1/2024 13:50	56803	BENV_T1	1	1	0	1.7	2	0.3	-0.03	-0.05	0	0	0	0	0	0
6/1/2024 13:51	45501	DERR_T2	4	4	0	0.58	0.65	0.07	-0.19	-0.35	2	2	0	1800	1800	0
6/1/2024 13:51	56803	BENV_T1	1	1	0	1.7	2	0.3	0	0	0	0	0	0	0	0
6/1/2024 13:51	56801	BENV_T1	11	17	6	1.01	0.85	-0.16	-1.95	-1.85	5	5	0	3000	3000	0
6/1/2024 13:52	45501	DERR_T2	4	4	0	0.58	0.65	0.07	-0.39	-0.69	4	4	0	3600	3600	0
6/1/2024 13:53	56801	BENV_T1	11	17	6	1.01	0.85	-0.16	-0.37	-0.31	1	1	0	600	600	0
6/1/2024 13:53	45501	DERR_T2	4	4	0	0.58	0.65	0.07	-0.35	-0.36	2	2	0	1800	1800	0
6/1/2024 13:53	56803	BENV_T1	1	1	0	1.7	2	0.3	0	0	0	0	0	0	0	0
6/1/2024 13:55	45501	DERR_T2	4	4	0	0.58	0.65	0.07	-0.35	-0.36	2	2	0	1800	1800	0
6/1/2024 14:01	56801	BENV_T1	16	13	-3	0.85	0.97	0.12	-0.74	-0.62	2	2	0	1200	1200	0
6/1/2024 14:01	56803	BENV_T1	1	1	0	2	3	1	0	0	0	0	0	0	0	0
6/1/2024 14:02	56801	BENV_T1	16	13	-3	0.85	0.97	0.12	-0.74	-0.62	2	2	0	1200	1200	0
6/1/2024 14:02	56803	BENV_T1	1	1	0	2	3	1	0	0	0	0	0	0	0	0
6/1/2024 14:03	56801	BENV_T1	16	13	-3	0.85	0.97	0.12	-0.37	-0.31	1	1	0	600	600	0
6/1/2024 14:03	56803	BENV_T1	1	1	0	2	3	1	0	0	0	0	0	0	0	0
6/1/2024 14:04	56803	BENV_T1	1	1	0	2	3	1	0	0	0	0	0	0	0	0
6/1/2024 14:04	56801	BENV_T1	16	13	-3	0.85	0.97	0.12	-0.37	-0.31	1	1	0	600	600	0
6/1/2024 14:05	45501	DERR_T2	4	4	0	0.58	0.65	0.07	0	0	0	0	0	0	0	0
6/1/2024 14:05	45502	DERR_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
6/1/2024 14:06	56803	BENV_T1	1	1	0	2	3	1	0	0	0	0	0	0	0	0
6/1/2024 14:06	56801	BENV_T1	16	13	-3	0.85	0.97	0.12	-0.37	-0.31	1	1	0	600	600	0
6/1/2024 14:14	56801	BENV_T1	16	13	-3	0.85	0.97	0.12	-0.31	-0.32	1	1	0	600	600	0
6/1/2024 14:14	56803	BENV_T1	1	1	0	2	3	1	0	0	0	0	0	0	0	0
6/1/2024 14:16	56801	BENV_T1	13	15	2	0.92	0.96	0.04	-0.31	-0.32	1	1	0	600	600	0
6/1/2024 14:16	56803	BENV_T1	1	1	0	3	2.8	-0.2	0	0	0	0	0	0	0	0
6/1/2024 14:17	56801	BENV_T1	13	15	2	0.92	0.96	0.04	-0.62	-0.64	2	2	0	1200	1200	0
6/1/2024 14:17	56803	BENV_T1	1	1	0	3	2.8	-0.2	0	0	0	0	0	0	0	0
6/1/2024 14:18	56801	BENV_T1	13	15	2	0.92	0.96	0.04	-0.62	-0.64	2	2	0	1200	1200	0
6/1/2024 14:18	56803	BENV_T1	1	1	0	3	2.8	-0.2	0	0	0	0	0	0	0	0
6/1/2024 14:22	45501	DERR_T2	4	4	0	0.63	0.55	-0.08	-0.36	-0.39	2	2	0	1800	1800	0
6/1/2024 14:30	56801	BENV_T1	13	21	8	0.93	0.97	0.04	-0.32	-0.33	1	1	0	600	600	0
6/1/2024 14:30	56803	BENV_T1	1	1	0	3	2.6	-0.4	0	0	0	0	0	0	0	0
6/1/2024 14:31	56803	BENV_T1	1	1	0	3	2.6	-0.4	0	0	0	0	0	0	0	0
6/1/2024 14:31	56801	BENV_T1	13	21	8	0.93	0.97	0.04	-0.32	-0.33	1	1	0	600	600	0
6/1/2024 14:33	56803	BENV_T1	1	1	0	3	2.6	-0.4	0	0	0	0	0	0	0	0
6/1/2024 14:33	56801	BENV_T1	13	21	8	0.93	0.97	0.04	-1.28	-1.32	4	4	0	2400	2400	0
6/1/2024 14:34	56803	BENV_T1	1	1	0	3	2.6	-0.4	0	0	0	0	0	0	0	0
6/1/2024 14:34	56801	BENV_T1	13	21	8	0.93	0.97	0.04	-0.32	-0.33	1	1	0	600	600	0
6/1/2024 14:42	58001	WCAR_T1	4	5	1	0.43	0.42	0.12	-0.36	-0.38	0	0	0	0	0	0
6/1/2024 14:42	58003	WCAR_T1	3	1	-2	0.67	1.1	0.43	0	0	0	0	0	0	0	0
6/1/2024 14:45	56803	BENV_T1	1	1	0	2.8	0	-2.8	0	0	0	0	0	0	0	0
6/1/2024 14:45	56801	BENV_T1	13	22	9	1.01	1.02	0.01	-0.66	-1.77	2	4	2	1200	2400	1200
6/1/2024 14:47	56803	BENV_T1	1	1	0	2.8	0	-2.8	0	0	0	0	0	0	0	0
6/1/2024 14:47	56801	BENV_T1	13	22	9	1.01	1.02	0.01	-0.33	-0.89	1	2	1	600	1200	600
6/1/2024 14:49	56801	BENV_T1	13	22	9	1.01	1.02	0.01	-0.99	-2.66	3	6	3	1800	3600	1800
6/1/2024 14:49	56803	BENV_T1	1	1	0	2.8	0	-2.8	0	0	0	0	0	0	0	0
6/1/2024 15:05	56803	BENV_T1	1	0	-1	2.6	0	-2.6	0	0	0	0	0	0	0	0
6/1/2024 15:05	56801	BENV_T1	20	19	-1	0.97	1.06	0.09	-0.89	-0.87	2	2	0	1200	1200	0
6/1/2024 15:15	56801	BENV_T1	19	17	-2	1.06	0.94	-0.12	-0.87	-0.88	2	2	0	1200	1200	0
6/1/2024 15:16	56801	BENV_T1	19	17	-2	1.06	0.94	-0.12	-0.87	-0.88	2	2	0	1200	1200	0
6/1/2024 15:17	56801	BENV_T1	19	17	-2	1.06	0.94	-0.12	-2.61	-2.64	6	6	0	3600	3600	0
6/1/2024 15:18	58006	WCAR_T2	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
6/1/2024 15:19	58006	WCAR_T2	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
6/1/2024 15:20	56801	BENV_T1	19	17	-2	1.06	0.94	-0.12	-0.87	-0.88	2	2	0	1200	1200	0
6/1/2024 15:32	56801	BENV_T1	14	18	4	0.88	0.85	-0.03	-0.88	-0.86	2	2	0	1200	1200	0
6/1/2024 15:34	56801	BENV_T1	14	18	4	0.88	0.85	-0.03	0	0	0	0	0	0	0	0
6/1/2024 15:34	56803	BENV_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
6/1/2024 17:05	45501	DERR_T2	1	0	-1	0.1	0	-0.1	-0.35	-0.32	2	2	0	1800	1800	0
6/1/2024 17:06	45501	DERR_T2	1	0	-1	0.1	0	-0.1	-0.35	-0.32	2	2	0	1800	1800	0
6/1/2024 17:10	45501	DERR_T2	1	0	-1	0.1	0	-0.1	-0.32	-0.52	2	2	0	1800	1800	0
6/1/2024 17:15	58006	WCAR_T2	0	0	0	0	0	0	-0.69	-0.65	0	0	0	0	0	0
6/1/2024 17:23	45501	DERR_T2	0	0	0	0	0	0	-0.52	-0.58	2	2	0	1800	1800	0
6/1/2024 17:24	45501	DERR_T2	0	0	0	0	0	0	-0.52	-0.58	2	2	0	1800	1800	0
6/1/2024 17:25	45501	DERR_T2	0	0	0	0	0	0	-0.52	-0.58	2	2	0	1800	1800	0
6/1/2024 17:29	58001	WCAR_T1	1	4	3	0.1	0.63	0.53	0	0	0	0	0	0	0	0
6/1/2024 17:29	58003	WCAR_T1	1	1	0	0.4	1.1	0.7	0.71	0.7	0	0	0	0	0	0
6/1/2024 17:30	58006	WCAR_T2	0	0	0	0	0	0	-0.65	-0.69	0	0	0	0	0	0
6/1/2024 17:31	58001	WCAR_T1	4	4	0	0.6	0.6	0	0	0	0	0	0	0	0	0
6/1/2024 17:31	58003	WCAR_T1	1	1	0	1.1	0.9	-0.2	0.71	0.7	0	0	0	0	0	0
6/1/2024 18:48	58002	WCAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/1/2024 18:48	58006	WCAR_T2	0	0	0	0	0	0	-0.66	-0.69	0	0	0	0	0	0
6/1/2024 19:04	58006	WCAR_T2	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
6/1/2024 19:15	58006	WCAR_T2	0	0	0	0	0	0	-0.7	-0.74	0	0	0	0	0	0
6/1/2024 19:27	12601	MACA_T1	0	0	0	0	0	0	1.14	1.07	0	0	0	0	0	0
6/1/2024 19:38	54505	ENOL_T2	0	0	0	0	0	0	-0.96	-1.03	1	1	0	600	600	0
6/1/2024 20:04	43103	SMIL_T2	4	4	0	0.18	0.45	0.27	-1.94	-1.99	0	0	0	0	0	0
6/1/2024 22:24	58006	WCAR_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
6/1/2024 22:26	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	-1.14	-1.15	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/1/2024 22:27	56801	BENV_T1	13	17	4	1.02	1.01	-0.01	-3.56	-3.68	6	3	-3	3600	1800	-1800
6/1/2024 22:28	45501	DERR_T2	0	0	0	0	0	0	-0.87	-0.88	2	2	0	1800	1800	0
6/1/2024 22:28	56801	BENV_T1	13	17	4	1.02	1.01	-0.01	-1.19	-1.23	2	1	-1	1200	600	-600
6/1/2024 22:29	56801	BENV_T1	13	17	4	1.02	1.01	-0.01	-2.37	-2.46	4	2	-2	2400	1200	-1200
6/1/2024 22:29	45501	DERR_T2	0	0	0	0	0	0	-0.87	-0.88	2	2	0	1800	1800	0
6/1/2024 22:30	56803	BENV_T1	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
6/1/2024 22:30	56801	BENV_T1	16	16	0	1.06	0.63	-0.43	-3.56	-3.68	6	3	-3	3600	1800	-1800
6/1/2024 22:30	58006	WCAR_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
6/1/2024 22:31	56801	BENV_T1	16	16	0	1.06	0.63	-0.43	-1.19	-1.23	2	1	-1	1200	600	-600
6/1/2024 22:32	58003	WCAR_T1	1	1	0	1.5	1.7	0.2	0.59	0.59	0	0	0	0	0	0
6/1/2024 22:32	56801	BENV_T1	16	16	0	1.06	0.63	-0.43	-3.56	-3.68	6	3	-3	3600	1800	-1800
6/1/2024 22:32	58001	WCAR_T1	4	4	0	0.73	1	0.27	0	0	0	0	0	0	0	0
6/1/2024 22:33	12601	MACA_T1	0	0	0	0	0	0	0.88	0.88	0	0	0	0	0	0
6/1/2024 22:33	56801	BENV_T1	16	16	0	1.06	0.63	-0.43	-1.19	-1.23	2	1	-1	1200	600	-600
6/1/2024 22:33	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.87	-0.88	2	2	0	1800	1800	0
6/1/2024 22:34	45502	DERR_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
6/1/2024 22:34	45501	DERR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/1/2024 22:35	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.87	-0.88	2	2	0	1800	1800	0
6/1/2024 22:35	56801	BENV_T1	16	16	0	1.06	0.63	-0.43	-3.56	-3.68	6	3	-3	3600	1800	-1800
6/1/2024 22:36	45501	DERR_T2	0	1	1	0	0.2	0.2	-1.74	-1.76	4	4	0	3600	3600	0
6/1/2024 22:36	56801	BENV_T1	16	16	0	1.06	0.63	-0.43	-3.56	-3.68	6	3	-3	3600	1800	-1800
6/1/2024 22:36	58001	WCAR_T1	4	4	0	0.73	1	0.27	0	0	0	0	0	0	0	0
6/1/2024 22:36	58003	WCAR_T1	1	1	0	1.5	1.7	0.2	0.59	0.59	0	0	0	0	0	0
6/1/2024 22:37	56801	BENV_T1	16	16	0	1.06	0.63	-0.43	-2.37	-2.46	4	2	-2	2400	1200	-1200
6/1/2024 22:38	56801	BENV_T1	16	16	0	1.06	0.63	-0.43	-1.23	-0.63	2	1	-1	1200	600	-600
6/1/2024 22:39	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.88	-0.91	2	2	0	1800	1800	0
6/1/2024 22:40	56801	BENV_T1	16	16	0	1.06	0.63	-0.43	-1.23	-0.63	1	1	0	600	600	0
6/1/2024 22:41	56801	BENV_T1	16	16	0	1.06	0.63	-0.43	-1.23	-0.63	1	1	0	600	600	0
6/1/2024 22:41	43103	SMIL_T2	14	21	7	0.33	0.71	0.38	-2.15	-2.18	0	0	0	0	0	0
6/1/2024 22:41	43102	SMIL_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
6/1/2024 22:41	43101	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/1/2024 22:42	56801	BENV_T1	16	16	0	1.06	0.63	-0.43	-1.23	-0.63	1	1	0	600	600	0
6/1/2024 22:43	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.88	-0.91	2	2	0	1800	1800	0
6/1/2024 22:46	45501	DERR_T2	0	1	1	0	0.7	0.7	-0.88	-0.91	2	2	0	1800	1800	0
6/1/2024 22:48	45501	DERR_T2	0	1	1	0	0.7	0.7	-0.88	-0.91	2	2	0	1800	1800	0
6/2/2024 13:38	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 13:38	26601	BROO_T1	0	0	0	0	0	0	-0.15	-0.14	1	1	0	600	600	0
6/2/2024 13:38	56801	BENV_T1	1	13	12	0.5	0.56	0.06	-0.28	-0.83	1	1	0	600	600	0
6/2/2024 13:39	67605	WARW_T1	2	1	-1	0.2	0.8	0.6	-0.94	-0.91	0	0	0	0	0	0
6/2/2024 13:40	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 13:40	21206	ECAR_T2	1	1	0	8	8	0	0.04	0	0	0	0	0	0	0
6/2/2024 13:42	20601	GRWO_T2	1	0	-1	0.3	0	-0.3	-0.2	-0.2	0	0	0	0	0	0
6/2/2024 13:42	52403	GRPA_T2	1	2	1	0.1	0.1	0	0.18	0.17	0	0	0	0	0	0
6/2/2024 13:42	21203	ECAR_T1	0	0	0	0	0	0	0.57	0	0	0	0	0	0	0
6/2/2024 13:42	20603	GRWO_T2	2	1	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
6/2/2024 13:43	21206	ECAR_T2	1	1	0	8	8	0	0.04	0	0	0	0	0	0	0
6/2/2024 13:43	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 13:44	40902	JESH_T1	0	0	0	0	0	0	-0.75	-0.72	0	0	0	0	0	0
6/2/2024 13:44	17802	GILB_T1	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
6/2/2024 13:44	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 13:44	26704	HEML_T2	0	0	0	0	0	0	-0.69	-0.68	1	1	0	1200	1200	0
6/2/2024 13:44	40901	JESH_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
6/2/2024 13:44	46801	HEPB_T2	0	0	0	0	0	0	0.84	0.86	0	0	0	0	0	0
6/2/2024 13:44	12606	MACA_T1	0	0	0	0	0	0	0.05	0.07	1	1	0	900	900	0
6/2/2024 13:45	41801	GOCI_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/2/2024 13:45	52403	GRPA_T2	1	3	2	0.3	1.9	1.6	0.18	0.17	0	0	0	0	0	0
6/2/2024 13:46	20603	GRWO_T2	1	1	0	0.1	0.3	0.2	0.47	0.48	0	0	0	0	0	0
6/2/2024 13:46	25501	MADI_T1	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
6/2/2024 13:46	52403	GRPA_T2	1	3	2	0.3	1.9	1.6	0.36	0.35	0	0	0	0	0	0
6/2/2024 13:46	55001	NEWP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/2/2024 13:46	13503	MCMI_T2	12	18	6	0.48	0.46	-0.02	-0.79	-0.77	0	0	0	0	0	0
6/2/2024 13:46	25502	MADI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/2/2024 13:46	55002	NEWP_T1	5	5	0	0.7	0.72	0.02	-0.12	-0.12	0	0	0	0	0	0
6/2/2024 13:46	25503	MADI_T1	3	4	1	0.13	0.28	0.15	-0.72	-0.71	0	0	0	0	0	0
6/2/2024 13:46	46803	HEPB_T2	0	0	0	0	0	0	0.53	0.58	0	0	0	0	0	0
6/2/2024 13:46	20601	GRWO_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
6/2/2024 13:46	59301	MCAL_T1	0	0	0	0	0	0	-1.1	-1.09	0	0	0	0	0	0
6/2/2024 13:46	46801	HEPB_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/2/2024 13:46	41801	GOCI_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/2/2024 13:47	52403	GRPA_T2	1	3	2	0.3	1.9	1.6	0.18	0.17	0	0	0	0	0	0
6/2/2024 13:47	12606	MACA_T1	0	0	0	0	0	0	0.05	0.07	1	1	0	900	900	0
6/2/2024 13:47	13503	MCMI_T2	12	18	6	0.48	0.46	-0.02	-0.79	-0.77	0	0	0	0	0	0
6/2/2024 13:48	55001	NEWP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/2/2024 13:48	13503	MCMI_T2	12	18	6	0.48	0.46	-0.02	-0.79	-0.77	0	0	0	0	0	0
6/2/2024 13:48	55002	NEWP_T1	5	5	0	0.7	0.72	0.02	-0.12	-0.12	0	0	0	0	0	0
6/2/2024 13:49	13503	MCMI_T2	12	18	6	0.48	0.46	-0.02	-0.79	-0.77	0	0	0	0	0	0
6/2/2024 13:49	13302	ORVI_T2	0	1	1	0	0.3	0.3	1.74	1.83	0	0	0	0	0	0
6/2/2024 13:49	55001	NEWP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/2/2024 13:49	55002	NEWP_T1	5	5	0	0.7	0.72	0.02	-0.12	-0.12	0	0	0	0	0	0
6/2/2024 13:49	55405	SHER_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
6/2/2024 13:50	67605	WARW_T1	1	2	1	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
6/2/2024 13:50	55002	NEWP_T1	5	5	0	0.7	0.72	0.02	-0.12	-0.12	0	0	0	0	0	0
6/2/2024 13:50	67603	WARW_T1	0	0	0	0	0	0	0.12	0.05	0	0	0	0	0	0
6/2/2024 13:50	55001	NEWP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/2/2024 13:50	58402	MORO_T1	0	0	0	0	0	0	-0.26	-0.34	2	2	0	1500	1500	0
6/2/2024 13:50	43103	SMIL_T2	4	5	1	0.2	0.28	0.08	-1.95	-1.96	0	0	0	0	0	0
6/2/2024 13:51	27605	PIRI_T2	0	0	0	0	0	0	0.7	0.76	0	0	0	0	0	0
6/2/2024 13:51	59101	WALK_T2	0	0	0	0	0	0	-0.86	-0.89	0	0	0	0	0	0
6/2/2024 13:51	67703	WERN_T2	0	0	0	0	0	0	-0.58	-0.58	1	1	0	900	900	0
6/2/2024 13:51	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/2/2024 13:51	13905	SEID_T1	0	0	0	0	0	0	-0.64	-0.61	1	1	0	1200	1200	0
6/2/2024 13:52	67703	WERN_T2	0	0	0	0	0	0	-0.58	-0.58	1	1	0	900	900	0
6/2/2024 13:52	67601	WARW_T2	0	0	0	0	0	0	-0.46	-0.41	0	0	0	0	0	0
6/2/2024 13:52	59101	WALK_T2	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
6/2/2024 13:52	24902	WHHA_T1	0	0	0	0	0	0	0.47	0.51	0	0	0	0	0	0
6/2/2024 13:52	43103	SMIL_T2	4	5	1	0.2	0.28	0.08	-3.91	-3.91	0	0	0	0	0	0
6/2/2024 13:52	24204	PROV_T3	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
6/2/2024 13:52	67702	WERN_T2	0	0	0	0	0	0	0.07	0.17	0	0	0	0	0	0
6/2/2024 13:52	24201	PROV_T3	1	1	0	7.3	7.6	0.3	-1.07	-1.07	1	1	0	1200	1200	0
6/2/2024 13:52	58001	WCAR_T1	3	3	0	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
6/2/2024 13:52	58003	WCAR_T1	1	1	0	1.4	1.1	-0.3	0	0	1	1	0	600	600	0
6/2/2024 13:52	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/2/2024 13:53	56801	BENV_T1	1	13	12	1.4	0.68	-0.72	0	0	0	0	0	0	0	0
6/2/2024 13:53	67605	WARW_T1	1	2	1	0.8	0.2	-0.6	-0.91	-1.08	0	0	0	0	0	0
6/2/2024 13:53	43103	SMIL_T2	4	5	1	0.2	0.28	0.08	-3.91	-3.96	0	0	0	0	0	0
6/2/2024 13:53	13901	SEID_T1	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
6/2/2024 13:53	56803	BENV_T1	1	2	1	0.7	0	-0.7	-0.02	-0.01	0	0	0	0	0	0
6/2/2024 13:53	26603	BROO_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
6/2/2024 13:54	24902	WHHA_T1	0	0	0	0	0	0	0.51	0.44	0	0	0	0	0	0
6/2/2024 13:54	67503	WEWI_T2	0	0	0	0	0	0	-0.56	-0.5	0	0	0	0	0	0
6/2/2024 13:54	58003	WCAR_T1	1	1	0	1.4	1.1	-0.3	0	0	1	1	0	600	600	0
6/2/2024 13:54	67401	WAKE_T2	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
6/2/2024 13:54	59201	THOM_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
6/2/2024 13:54	59202	THOM_T1	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/2/2024 13:54	58001	WCAR_T1	3	3	0	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
6/2/2024 13:54	43103	SMIL_T2	4	5	1	0.2	0.28	0.08	-1.96	-1.98	0	0	0	0	0	0
6/2/2024 13:55	58003	WCAR_T1	1	1	0	1.4	1.1	-0.3	0	0	1	1	0	600	600	0
6/2/2024 13:55	67603	WARW_T1	0	0	0	0	0	0	0.05	0.14	0	0	0	0	0	0
6/2/2024 13:55	67605	WARW_T1	1	2	1	0.8	0.2	-0.6	-0.91	-1.08	0	0	0	0	0	0
6/2/2024 13:55	58001	WCAR_T1	3	3	0	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
6/2/2024 13:55	67703	WERN_T2	0	0	0	0	0	0	-0.58	-0.55	1	1	0	900	900	0
6/2/2024 13:55	67503	WEWI_T2	0	0	0	0	0	0	-0.56	-0.5	0	0	0	0	0	0
6/2/2024 13:55	45501	DERR_T2	0	0	0	0	0	0	-1.8	-1.91	6	6	0	5400	5400	0
6/2/2024 13:55	26603	BROO_T1	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
6/2/2024 13:55	61303	EARL_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
6/2/2024 13:55	61302	EARL_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/2/2024 13:56	44302	BEAV_T2	4	4	0	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
6/2/2024 13:56	56801	BENV_T1	1	13	12	1.4	0.68	-0.72	-0.83	-0.79	2	2	0	1200	1200	0
6/2/2024 13:56	56803	BENV_T1	1	2	1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/2/2024 13:56	44301	BEAV_T2	0	3	3	0	0.8	0.8	0	0	1	1	0	600	600	0
6/2/2024 13:57	61303	EARL_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
6/2/2024 13:57	61302	EARL_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/2/2024 13:58	61302	EARL_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/2/2024 13:58	42902	MIDD_T2	181	167	-14	0.51	0.46	-0.05	-0.48	-0.52	0	0	0	0	0	0
6/2/2024 13:58	61303	EARL_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
6/2/2024 13:58	44301	BEAV_T2	0	3	3	0	0.8	0.8	0	0	2	2	0	1200	1200	0
6/2/2024 13:58	42901	MIDD_T2	181	111	-70	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
6/2/2024 13:58	42903	MIDD_T2	120	110	-10	0.53	0.46	-0.07	-0.06	-0.09	0	0	0	0	0	0
6/2/2024 13:58	52002	LING_T2	1	6	5	0.1	0.23	0.13	0	0	0	0	0	0	0	0
6/2/2024 13:58	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 13:58	44302	BEAV_T2	4	4	0	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
6/2/2024 13:59	61302	EARL_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/2/2024 13:59	61303	EARL_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
6/2/2024 13:59	41304	FISH_T2	1	1	0	0	0	0	0	0.8	0	0	0	0	0	0
6/2/2024 14:00	66504	SMAN_T2	0	0	0	0	0	0	-0.11	-0.04	0	0	0	0	0	0
6/2/2024 14:00	65901	SAKR_T2	1	1	0	7.2	7.1	-0.1	-1.05	-1.01	2	2	0	1500	1500	0
6/2/2024 14:00	41304	FISH_T2	1	1	0	0	0	0	0	0.8	0	0	0	0	0	0
6/2/2024 14:00	52403	GRPA_T2	2	5	3	1	1.5	0.5	0.17	0.19	0	0	0	0	0	0
6/2/2024 14:00	46506	LOHA_T1	1	1	0	0.6	0.7	0.1	-0.77	-0.76	0	0	0	0	0	0
6/2/2024 14:00	66505	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/2/2024 14:01	66505	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/2/2024 14:01	66504	SMAN_T2	0	0	0	0	0	0	-0.23	-0.08	0	0	0	0	0	0
6/2/2024 14:01	52004	LING_T2	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
6/2/2024 14:01	52002	LING_T2	6	6	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
6/2/2024 14:01	46506	LOHA_T1	1	1	0	0.6	0.7	0.1	-0.39	-0.38	0	0	0	0	0	0
6/2/2024 14:02	13503	MCMI_T2	17	13	-4	0.48	0.36	-0.12	-0.77	-0.79	0	0	0	0	0	0
6/2/2024 14:02	52001	LING_T1	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
6/2/2024 14:02	41304	FISH_T2	1	1	0	0	0	0	0	0.8	0	0	0	0	0	0
6/2/2024 14:03	51004	NHAR_T1	1	3	2	6.7	2.23	-4.47	-0.22	-0.19	0	0	0	0	0	0
6/2/2024 14:03	46506	LOHA_T1	1	1	0	0.6	0.7	0.1	-0.77	-0.76	0	0	0	0	0	0
6/2/2024 14:03	51002	NHAR_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/2/2024 14:03	51003	NHAR_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
6/2/2024 14:03	44301	BEAV_T2	1	4	3	0.8	1	0.2	0	0	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/2/2024 14:03	53802	MBRG_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
6/2/2024 14:03	48302	ORWI_T2	2	2	0	0.5	0.6	0.1	-0.45	-0.36	0	0	0	0	0	0
6/2/2024 14:03	44302	BEAV_T2	2	9	7	0.2	0.6	0.4	0	0	2	2	0	2400	2400	0
6/2/2024 14:03	52403	GRPA_T2	2	5	3	1	1.5	0.5	0.17	0.19	0	0	0	0	0	0
6/2/2024 14:04	64101	REFR_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
6/2/2024 14:04	41902	REED_T1	4	8	4	0.63	0.1	-0.53	1.14	1.15	0	0	0	0	0	0
6/2/2024 14:04	43201	MVIL_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
6/2/2024 14:05	44301	BEAV_T2	1	4	3	0.8	1	0.2	0	0	0	0	0	0	0	0
6/2/2024 14:05	65901	SAKR_T2	1	1	0	7.2	7.1	-0.1	-1.05	-1.01	2	2	0	1500	1500	0
6/2/2024 14:05	44302	BEAV_T2	2	9	7	0.2	0.6	0.4	0	0	1	1	0	1200	1200	0
6/2/2024 14:05	46302	ROHR_T1	5	4	-1	1	0.8	-0.2	0.24	0.23	0	0	0	0	0	0
6/2/2024 14:05	41902	REED_T1	4	8	4	0.63	0.1	-0.53	1.14	1.15	0	0	0	0	0	0
6/2/2024 14:06	48302	ORWI_T2	2	2	0	0.5	0.6	0.1	-0.45	-0.36	0	0	0	0	0	0
6/2/2024 14:06	46302	ROHR_T1	5	4	-1	1	0.8	-0.2	0.24	0.23	0	0	0	0	0	0
6/2/2024 14:06	44301	BEAV_T2	1	4	3	0.8	1	0.2	0	0	2	2	0	1200	1200	0
6/2/2024 14:06	44302	BEAV_T2	2	9	7	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/2/2024 14:07	44302	BEAV_T2	2	9	7	0.2	0.6	0.4	0	0	1	1	0	1200	1200	0
6/2/2024 14:07	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 14:07	45902	AUBU_T1	3	1	-2	0.4	0.5	0.1	-0.5	-0.49	0	0	0	0	0	0
6/2/2024 14:07	43402	BENT_T1	8	1	-7	0.44	0.1	-0.34	-0.84	-0.84	1	1	0	900	900	0
6/2/2024 14:07	29402	BELT_T1	1	1	0	8.3	8.4	0.1	0	0	0	0	0	0	0	0
6/2/2024 14:07	44301	BEAV_T2	1	4	3	0.8	1	0.2	0	0	1	1	0	600	600	0
6/2/2024 14:08	40201	BEGA_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/2/2024 14:08	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 14:08	45902	AUBU_T1	3	1	-2	0.4	0.5	0.1	-0.49	-0.42	0	0	0	0	0	0
6/2/2024 14:08	29402	BELT_T1	1	1	0	8.3	8.4	0.1	0	0	0	0	0	0	0	0
6/2/2024 14:08	43402	BENT_T1	8	1	-7	0.44	0.1	-0.34	-0.84	-0.84	1	1	0	900	900	0
6/2/2024 14:08	44301	BEAV_T2	1	4	3	0.8	1	0.2	0	0	1	1	0	600	600	0
6/2/2024 14:08	44302	BEAV_T2	2	9	7	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/2/2024 14:09	56803	BENV_T1	0	1	1	0	2	2	-0.01	0	0	0	0	0	0	0
6/2/2024 14:09	67503	WEWI_T2	0	1	1	0	0	0	-0.5	-0.51	0	0	0	0	0	0
6/2/2024 14:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 14:09	56801	BENV_T1	13	11	-2	0.56	0.72	0.16	0	0	0	0	0	0	0	0
6/2/2024 14:09	44301	BEAV_T2	1	4	3	0.8	1	0.2	0	0	1	1	0	600	600	0
6/2/2024 14:09	20403	ASHF_T2	0	1	1	0	0	0	0.4	0.41	0	0	0	0	0	0
6/2/2024 14:09	45902	AUBU_T1	3	1	-2	0.4	0.5	0.1	-1.95	-1.67	0	0	0	0	0	0
6/2/2024 14:09	29402	BELT_T1	1	1	0	8.3	8.4	0.1	0	0	0	0	0	0	0	0
6/2/2024 14:09	44302	BEAV_T2	2	9	7	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/2/2024 14:09	20401	ASHF_T2	2	1	-1	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
6/2/2024 14:09	40201	BEGA_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/2/2024 14:10	10801	CHHI_T1	3	3	0	0.4	0.53	0.13	-3.12	-3.06	6	6	0	4200	4200	0
6/2/2024 14:10	29402	BELT_T1	1	1	0	8.3	8.4	0.1	0	0	0	0	0	0	0	0
6/2/2024 14:10	29401	BELT_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
6/2/2024 14:10	56803	BENV_T1	0	1	1	0	2	2	0	0	0	0	0	0	0	0
6/2/2024 14:10	40201	BEGA_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/2/2024 14:10	67503	WEWI_T2	0	1	1	0	0	0	-0.5	-0.51	0	0	0	0	0	0
6/2/2024 14:10	45902	AUBU_T1	3	1	-2	0.4	0.5	0.1	-0.49	-0.42	0	0	0	0	0	0
6/2/2024 14:10	56801	BENV_T1	13	11	-2	0.56	0.72	0.16	-0.79	-0.8	2	2	0	1200	1200	0
6/2/2024 14:11	20403	ASHF_T2	0	1	1	0	0	0	0.8	0.82	0	0	0	0	0	0
6/2/2024 14:11	40201	BEGA_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/2/2024 14:11	29402	BELT_T1	1	1	0	8.3	8.4	0.1	0	0	0	0	0	0	0	0
6/2/2024 14:11	43402	BENT_T1	8	1	-7	0.44	0.1	-0.34	-0.84	-0.84	1	1	0	900	900	0
6/2/2024 14:11	20401	ASHF_T2	2	1	-1	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
6/2/2024 14:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 14:11	61102	BERK_T5	0	1	1	0	0.5	0.5	-1.16	-1.15	2	2	0	1200	1200	0
6/2/2024 14:12	61102	BERK_T5	0	1	1	0	0.5	0.5	-1.16	-1.15	2	2	0	1200	1200	0
6/2/2024 14:13	40201	BEGA_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/2/2024 14:13	44301	BEAV_T2	1	4	3	0.8	1	0.2	0	0	0	0	0	0	0	0
6/2/2024 14:13	44302	BEAV_T2	2	9	7	0.2	0.6	0.4	0	0	1	1	0	1200	1200	0
6/2/2024 14:13	17804	GILB_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
6/2/2024 14:14	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 14:15	13503	MCMI_T2	13	40	27	0.32	0.26	-0.06	-0.79	-0.8	0	0	0	0	0	0
6/2/2024 14:15	61102	BERK_T5	1	1	0	0.5	0.1	-0.4	-1.16	-1.15	2	2	0	1200	1200	0
6/2/2024 14:16	41801	GOCI_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
6/2/2024 14:16	52403	GRPA_T2	2	4	2	1.15	0.1	-1.05	0.19	0.18	0	0	0	0	0	0
6/2/2024 14:18	12801	MICK_T1	0	0	0	0	0	0	-0.81	-0.83	1	1	0	600	600	0
6/2/2024 14:18	12803	MICK_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/2/2024 14:19	52404	GRPA_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
6/2/2024 14:19	52403	GRPA_T2	2	4	2	1.15	0.1	-1.05	0	0	0	0	0	0	0	0
6/2/2024 14:20	55002	NEWP_T1	4	4	0	0.53	0.55	0.02	-0.13	-0.11	0	0	0	0	0	0
6/2/2024 14:20	55001	NEWP_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/2/2024 14:22	43108	SMIL_T2	0	0	0	0	0	0	-0.91	-0.89	1	1	0	1200	1200	0
6/2/2024 14:22	43103	SMIL_T2	4	1	-3	0.15	0.2	0.05	0	0	0	0	0	0	0	0
6/2/2024 14:22	67503	WEWI_T2	0	1	1	0	0.1	0.1	-0.5	-0.51	0	0	0	0	0	0
6/2/2024 14:22	43301	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 14:22	67702	WERN_T2	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
6/2/2024 14:23	16302	ALPA_T2	0	0	0	0	0	0	0.84	0.81	0	0	0	0	0	0
6/2/2024 14:23	67703	WERN_T2	0	0	0	0	0	0	-1.13	-1.01	2	2	0	1800	1800	0
6/2/2024 14:23	56803	BENV_T1	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
6/2/2024 14:23	15703	TANN_T2	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
6/2/2024 14:23	56801	BENV_T1	11	10	-1	0.72	0.48	-0.24	-0.8	-0.84	2	2	0	1200	1200	0
6/2/2024 14:23	15702	TANN_T2	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
6/2/2024 14:24	60101	COCA_T1	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
6/2/2024 14:24	56801	BENV_T1	11	10	-1	0.72	0.48	-0.24	-1.6	-1.68	4	4	0	2400	2400	0
6/2/2024 14:24	56803	BENV_T1	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
6/2/2024 14:24	43103	SMIL_T2	4	1	-3	0.15	0.2	0.05	0	0	0	0	0	0	0	0
6/2/2024 14:24	16302	ALPA_T2	0	0	0	0	0	0	0.84	0.81	0	0	0	0	0	0
6/2/2024 14:24	67703	WERN_T2	0	0	0	0	0	0	-0.56	-0.51	1	1	0	900	900	0
6/2/2024 14:24	43108	SMIL_T2	0	0	0	0	0	0	-0.89	-0.9	1	1	0	1200	1200	0
6/2/2024 14:25	56803	BENV_T1	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
6/2/2024 14:25	15702	TANN_T2	0	0	0	0	0	0	-0.29	-0.34	0	0	0	0	0	0
6/2/2024 14:25	56801	BENV_T1	11	10	-1	0.72	0.48	-0.24	-2.4	-2.52	6	6	0	3600	3600	0
6/2/2024 14:25	15703	TANN_T2	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
6/2/2024 14:25	16302	ALPA_T2	0	0	0	0	0	0	1.69	1.62	0	0	0	0	0	0
6/2/2024 14:26	56803	BENV_T1	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
6/2/2024 14:26	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 14:26	67703	WERN_T2	0	0	0	0	0	0	-0.56	-0.51	1	1	0	900	900	0
6/2/2024 14:26	56801	BENV_T1	11	10	-1	0.72	0.48	-0.24	-0.8	-0.84	2	2	0	1200	1200	0
6/2/2024 14:26	29402	BELT_T1	1	1	0	8.3	8.4	0.1	0	0	0	0	0	0	0	0
6/2/2024 14:27	56801	BENV_T1	11	10	-1	0.72	0.48	-0.24	-0.8	-0.84	2	2	0	1200	1200	0
6/2/2024 14:27	29402	BELT_T1	1	1	0	8.3	8.4	0.1	0	0	0	0	0	0	0	0
6/2/2024 14:27	22901	HARW_T1	0	8	8	0	0.1	0.1	-0.51	-0.69	1	1	0	1200	1200	0
6/2/2024 14:27	16006	DORN_T2	0	2	2	0	0	0	-1.45	-1.46	1	1	0	1200	1200	0
6/2/2024 14:27	22905	HARW_T1	4	1	-3	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
6/2/2024 14:27	56803	BENV_T1	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
6/2/2024 14:27	60101	COCA_T1	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
6/2/2024 14:27	22903	HARW_T1	17	35	18	0.42	0.9	0.48	0	0	0	0	0	0	0	0
6/2/2024 14:28	40101	HUNT_T2	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
6/2/2024 14:28	16006	DORN_T2	0	2	2	0	0	0	-1.45	-1.46	1	1	0	1200	1200	0
6/2/2024 14:29	22903	HARW_T1	17	35	18	0.42	0.9	0.48	0	0	0	0	0	0	0	0
6/2/2024 14:29	22901	HARW_T1	0	8	8	0	0.1	0.1	-0.51	-0.69	1	1	0	1200	1200	0
6/2/2024 14:29	22905	HARW_T1	4	1	-3	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
6/2/2024 14:29	52403	GRPA_T2	2	4	2	1.15	0.1	-1.05	0.18	0.18	0	0	0	0	0	0
6/2/2024 14:30	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 14:30	52002	LING_T2	6	7	1	0.3	0.13	-0.17	0.38	0.38	0	0	0	0	0	0
6/2/2024 14:30	52403	GRPA_T2	4	2	-2	0.63	0.3	-0.33	0	0	0	0	0	0	0	0
6/2/2024 14:30	52404	GRPA_T2	0	0	0	0	0	0	-0.23	-0.13	0	0	0	0	0	0
6/2/2024 14:31	52403	GRPA_T2	4	2	-2	0.63	0.3	-0.33	0	0	0	0	0	0	0	0
6/2/2024 14:31	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 14:31	52404	GRPA_T2	0	0	0	0	0	0	-0.23	-0.13	0	0	0	0	0	0
6/2/2024 14:32	29402	BELT_T1	1	1	0	8.4	8.7	0.3	0	0	0	0	0	0	0	0
6/2/2024 14:32	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 14:32	52002	LING_T2	6	7	1	0.3	0.13	-0.17	1.14	1.14	0	0	0	0	0	0
6/2/2024 14:32	52403	GRPA_T2	4	2	-2	0.63	0.3	-0.33	0.18	0.18	0	0	0	0	0	0
6/2/2024 14:32	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 14:35	66203	SISP_T2	0	0	0	0	0	0	-1.17	-1.11	1	1	0	1200	1200	0
6/2/2024 14:35	43103	SMIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/2/2024 14:35	43102	SMIL_T2	0	0	0	0	0	0	-0.66	-0.65	1	1	0	600	600	0
6/2/2024 14:36	67602	WARW_T2	0	0	0	0	0	0	1.14	-0.1	1	2	1	300	1500	1200
6/2/2024 14:36	13303	ORVI_T1	0	0	0	0	0	0	0.87	0.93	0	0	0	0	0	0
6/2/2024 14:37	67703	WERN_T2	0	0	0	0	0	0	-1.13	-1.01	2	2	0	1800	1800	0
6/2/2024 14:37	67602	WARW_T2	0	0	0	0	0	0	4.55	-0.38	4	8	4	1200	6000	4800
6/2/2024 14:37	43103	SMIL_T2	1	1	0	0.2	0.2	0	-1.94	-1.93	0	0	0	0	0	0
6/2/2024 14:37	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 14:38	67703	WERN_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
6/2/2024 14:38	67602	WARW_T2	0	0	0	0	0	0	-0.19	-0.16	2	4	2	600	3000	2400
6/2/2024 14:39	67605	WARW_T1	1	3	2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/2/2024 14:39	67604	WARW_T1	0	0	0	0	0	0	0.14	0.19	0	0	0	0	0	0
6/2/2024 14:39	67602	WARW_T2	0	0	0	0	0	0	-0.1	-0.08	2	2	0	1500	1500	0
6/2/2024 14:39	45902	AUBU_T1	1	3	2	0.3	0.73	0.43	-1.26	-1.22	0	0	0	0	0	0
6/2/2024 14:39	67703	WERN_T2	0	0	0	0	0	0	-1.52	-1.51	3	3	0	2700	2700	0
6/2/2024 14:39	29402	BELT_T1	1	1	0	8.4	8.7	0.3	0	0	0	0	0	0	0	0
6/2/2024 14:39	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 14:39	48302	ORWI_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
6/2/2024 14:40	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 14:41	67602	WARW_T2	0	0	0	0	0	0	-0.19	-0.16	4	4	0	3000	3000	0
6/2/2024 14:41	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 14:41	45902	AUBU_T1	1	3	2	0.3	0.73	0.43	0	0	0	0	0	0	0	0
6/2/2024 14:41	45901	AUBU_T1	0	0	0	0	0	0	1.03	1.02	0	0	0	0	0	0
6/2/2024 14:41	29402	BELT_T1	1	1	0	8.4	8.7	0.3	0	0	0	0	0	0	0	0
6/2/2024 14:41	67703	WERN_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
6/2/2024 14:42	52403	GRPA_T2	4	2	-2	0.63	0.3	-0.33	0.18	0.42	0	0	0	0	0	0
6/2/2024 14:42	26603	BROO_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
6/2/2024 14:42	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 14:43	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 14:43	47002	HUGH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/2/2024 14:43	29402	BELT_T1	1	1	0	8.4	8.7	0.3	0	0	0	0	0	0	0	0
6/2/2024 14:43	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 14:43	47001	HUGH_T2	0	0	0	0	0	0	-1.49	-1.48	1	1	0	900	900	0
6/2/2024 14:43	52403	GRPA_T2	4	2	-2	0.63	0.3	-0.33	0.18	-0.42	0	0	0	0	0	0
6/2/2024 14:45	25501	MADI_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/2/2024 14:45	25502	MADI_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
6/2/2024 14:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/2/2024 14:45	25503	MADI_T1	2	32	30	0.25	0.17	-0.08	-0.7	-0.69	0	0	0	0	0	0
6/2/2024 14:46	42902	MIDD_T2	76	52	-24	0.43	0.38	-0.05	-0.47	-0.38	0	0	0	0	0	0
6/2/2024 14:46	44301	BEAV_T2	2	6	4	1.55	0.92	-0.63	0.04	-0.2	1	1	0	600	600	0
6/2/2024 14:46	66505	SMAN_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/2/2024 14:46	42903	MIDD_T2	35	30	-5	0.43	0.46	0.03	0	0	0	0	0	0	0	0
6/2/2024 14:46	63501	HEID_TBK1-2	3	2	-1	0.13	0.2	0.07	-0.17	-0.22	1	1	0	900	900	0
6/2/2024 14:46	47001	HUGH_T2	0	0	0	0	0	0	-1.49	-1.48	1	1	0	900	900	0
6/2/2024 14:46	44302	BEAV_T2	6	128	122	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
6/2/2024 14:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 14:46	42901	MIDD_T2	44	26	-18	0.18	0.22	0.04	0	0	0	0	0	0	0	0
6/2/2024 14:46	66504	SMAN_T2	0	0	0	0	0	-1.23	-1.28	-1.28	1	1	0	1200	1200	0
6/2/2024 14:47	44601	SALE_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/2/2024 14:47	42901	MIDD_T2	44	26	-18	0.18	0.22	0.04	0	0	0	0	0	0	0	0
6/2/2024 14:47	42902	MIDD_T2	76	52	-24	0.43	0.38	-0.05	-0.47	-0.38	0	0	0	0	0	0
6/2/2024 14:47	42903	MIDD_T2	35	30	-5	0.43	0.46	0.03	0	0	0	0	0	0	0	0
6/2/2024 14:48	46506	LOHA_T1	1	1	0	0.5	0.6	0.1	-0.36	-0.38	0	0	0	0	0	0
6/2/2024 14:48	47802	MOCA_T2	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
6/2/2024 14:48	44302	BEAV_T2	6	128	122	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
6/2/2024 14:48	44301	BEAV_T2	2	6	4	1.55	0.92	-0.63	0.04	-0.2	1	1	0	600	600	0
6/2/2024 14:49	42902	MIDD_T2	76	52	-24	0.43	0.38	-0.05	-0.47	-0.38	0	0	0	0	0	0
6/2/2024 14:49	42901	MIDD_T2	44	26	-18	0.18	0.22	0.04	0	0	0	0	0	0	0	0
6/2/2024 14:49	42903	MIDD_T2	35	30	-5	0.43	0.46	0.03	0	0	0	0	0	0	0	0
6/2/2024 14:50	17002	RIRO_T2	2	1	-1	0.4	0.5	0.1	0.5	0.49	0	0	0	0	0	0
6/2/2024 14:52	42903	MIDD_T2	35	30	-5	0.43	0.46	0.03	0	0	0	0	0	0	0	0
6/2/2024 14:52	42902	MIDD_T2	76	52	-24	0.43	0.38	-0.05	-0.47	-0.38	0	0	0	0	0	0
6/2/2024 14:52	42901	MIDD_T2	44	26	-18	0.18	0.22	0.04	0	0	0	0	0	0	0	0
6/2/2024 14:53	43103	SMIL_T2	1	1	0	0.2	0.1	-0.1	-1.94	-1.91	0	0	0	0	0	0
6/2/2024 14:53	16101	BING_T2	1	1	0	9.6	9.9	0.3	0	0	0	0	0	0	0	0
6/2/2024 14:53	16102	BING_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
6/2/2024 14:57	66502	SMAN_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
6/2/2024 14:57	66505	SMAN_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/2/2024 14:58	61802	EELI_T2	8	7	-1	0.34	0.38	0.04	0	0	0	0	0	0	0	0
6/2/2024 14:58	61801	EELI_T2	0	0	0	0	0	0	-0.73	-0.79	2	2	0	1200	1200	0
6/2/2024 15:07	56801	BENV_T1	6	6	0	0.45	0.4	-0.05	-1.46	-1.49	4	4	0	2400	2400	0
6/2/2024 15:08	66703	STRA_T1	0	0	0	0	0	0	0.11	0.22	0	0	0	0	0	0
6/2/2024 15:08	66701	STRA_T1	4	0	-4	0.98	0	-0.98	0	0	0	0	0	0	0	0
6/2/2024 15:10	60101	COCA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/2/2024 15:10	60102	COCA_T1	0	0	0	0	0	0	-0.3	-0.33	2	2	0	1200	1200	0
6/2/2024 15:11	67702	WERN_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
6/2/2024 15:11	60101	COCA_T1	0	1	1	0	0.1	0.1	0.64	0.63	0	0	0	0	0	0
6/2/2024 15:12	26603	BROO_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
6/2/2024 15:13	60101	COCA_T1	0	1	1	0	0.1	0.1	0.64	0.63	0	0	0	0	0	0
6/2/2024 15:13	40101	HUNT_T2	0	0	0	0	0	0	-0.49	-0.53	0	0	0	0	0	0
6/2/2024 15:14	52004	LING_T2	0	0	0	0	0	0	0.17	-0.07	0	0	0	0	0	0
6/2/2024 15:14	52002	LING_T2	6	0	-6	0.17	0	-0.17	0	0	0	0	0	0	0	0
6/2/2024 15:15	67602	WARW_T2	0	0	0	0	0	0	-0.06	-0.02	2	2	0	1500	1500	0
6/2/2024 15:16	63801	HEMP_T1	0	0	0	0	0	0	-0.83	-0.68	1	1	0	900	900	0
6/2/2024 15:16	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
6/2/2024 15:17	58401	MORO_T1	0	0	0	0	0	0	-1.35	-1.38	2	2	0	1200	1200	0
6/2/2024 15:17	28805	LAKE_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
6/2/2024 15:18	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/2/2024 15:18	64204	KINZ_T1	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
6/2/2024 15:18	64201	KINZ_T1	1	1	0	0.6	0.4	-0.2	-0.52	-0.54	3	3	0	1500	1500	0
6/2/2024 15:19	58401	MORO_T1	0	0	0	0	0	0	-1.35	-1.38	2	2	0	1200	1200	0
6/2/2024 15:24	67503	WEWI_T2	1	0	-1	0.1	0	-0.1	-0.5	-0.46	0	0	0	0	0	0
6/2/2024 15:25	10805	CHHI_T2	1	1	0	8.2	7.9	-0.3	-1.26	-1.27	1	1	0	600	600	0
6/2/2024 15:26	29402	BELT_T1	1	1	0	8.5	8.3	-0.2	0	0	0	0	0	0	0	0
6/2/2024 15:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 15:26	41502	FAIR_T2	0	0	0	0	0	0	-1.5	-1.52	1	1	0	900	900	0
6/2/2024 15:27	41501	FAIR_T2	0	0	0	0	0	0	-1.13	-1.12	1	1	0	600	600	0
6/2/2024 15:29	61102	BERK_T5	0	0	0	0	0	0	-0.91	-1.02	2	2	0	1200	1200	0
6/2/2024 15:37	67702	WERN_T2	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
6/2/2024 15:40	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 15:43	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 15:43	45902	AUBU_T1	0	3	3	0	0.47	0.47	-0.38	-0.38	0	0	0	0	0	0
6/2/2024 15:43	63304	GREE_T1	0	0	0	0	0	0	-2.35	-2.3	1	1	0	1200	1200	0
6/2/2024 15:47	63304	GREE_T1	0	0	0	0	0	0	-2.35	-2.3	1	1	0	1200	1200	0
6/2/2024 15:49	20403	ASHF_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
6/2/2024 15:49	20401	ASHF_T2	2	1	-1	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
6/2/2024 15:51	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 15:51	21206	ECAR_T2	1	4	3	7.3	7.3	0	0.05	0.05	0	0	0	0	0	0
6/2/2024 15:51	48302	ORWI_T2	1	2	1	0.2	0.95	0.75	-0.39	-0.37	0	0	0	0	0	0
6/2/2024 15:51	67702	WERN_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
6/2/2024 15:52	67702	WERN_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
6/2/2024 15:54	42701	AUGU_T1	68	76	8	1.02	1.11	0.09	0	0	0	0	0	0	0	0
6/2/2024 15:54	67702	WERN_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
6/2/2024 15:54	67201	TEHI_T1	0	0	0	0	0	0	-0.53	-0.51	1	1	0	900	900	0
6/2/2024 15:56	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 15:56	42701	AUGU_T1	68	76	8	1.02	1.11	0.09	0	0	0	0	0	0	0	0
6/2/2024 15:59	11804	FRAN_T1	0	0	0	0	0	0	0.85	0.86	0	0	0	0	0	0
6/2/2024 16:02	52403	GRPA_T2	2	3	1	2.8	0	-2.8	-0.38	-0.34	0	0	0	0	0	0
6/2/2024 16:02	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 16:06	43108	SMIL_T2	0	0	0	0	0	0	-1.07	-1.08	1	1	0	1200	1200	0
6/2/2024 16:06	65001	NEFF_T2	0	0	0	0	0	0	-0.64	-0.78	1	1	0	1200	1200	0
6/2/2024 16:10	14201	EALL_T1	0	0	0	0	0	0	0.04	-0.17	0	0	0	0	0	0
6/2/2024 16:11	12502	MITR_T2	1	1	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
6/2/2024 16:11	12501	MITR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/2/2024 16:11	12505	MITR_T2	0	0	0	0	0	0	2.01	2.14	0	0	0	0	0	0
6/2/2024 16:11	45402	WBLO_T2	1	1	0	0.4	0.7	0.3	-1.39	-1.41	1	1	0	900	900	0
6/2/2024 16:16	45802	HEGI_T2	11	48	37	0.34	2.21	1.87	1.97	-0.01	0	0	0	0	0	0
6/2/2024 16:24	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 16:24	29402	BELT_T1	1	1	0	9.1	8.8	-0.3	0	0	0	0	0	0	0	0
6/2/2024 16:26	53302	GRAT_T2	29	31	2	0.46	0.41	-0.05	0	0	0	0	0	0	0	0
6/2/2024 16:29	24702	FLND_T2	2	0	-2	0.6	0	-0.6	-0.57	-0.43	1	1	0	1200	1200	0
6/2/2024 16:32	60605	NCOL_T2	0	0	0	0	0	0	-1.19	-1.19	0	0	0	0	0	0
6/2/2024 16:40	67702	WERN_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
6/2/2024 16:46	21206	ECAR_T2	1	1	0	7.1	7.3	0.2	0.08	0.1	0	0	0	0	0	0
6/2/2024 16:46	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 17:02	22602	KIMB_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
6/2/2024 17:04	64902	MILL_T2	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
6/2/2024 17:05	64902	MILL_T2	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
6/2/2024 17:14	24501	GOUL_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
6/2/2024 17:20	43104	SMIL_T2	0	0	0	0	0	0	-0.6	-0.58	1	1	0	300	300	0
6/2/2024 17:20	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 17:23	43104	SMIL_T2	0	0	0	0	0	0	-0.58	-0.58	1	1	0	300	300	0
6/2/2024 17:23	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 17:24	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 17:24	43104	SMIL_T2	0	0	0	0	0	0	-1.16	-1.16	2	2	0	600	600	0
6/2/2024 17:27	63305	GREE_T1	0	0	0	0	0	0	-2.19	-2.23	1	1	0	900	900	0
6/2/2024 17:29	10801	CHHI_T1	4	3	-1	0.38	0	-0.38	-1.39	-1.35	3	3	0	2100	2100	0
6/2/2024 17:31	63305	GREE_T1	0	0	0	0	0	0	-2.19	-2.23	1	1	0	900	900	0
6/2/2024 17:31	42301	MOWR_T2	0	0	0	0	0	0	0.74	0.74	0	0	0	0	0	0
6/2/2024 17:32	42301	MOWR_T2	0	0	0	0	0	0	1.48	1.48	0	0	0	0	0	0
6/2/2024 17:36	42301	MOWR_T2	0	0	0	0	0	0	1.48	1.48	0	0	0	0	0	0
6/2/2024 17:38	54001	SDLE_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
6/2/2024 17:39	62104	ELAN_T1	0	0	0	0	0	0	-0.09	-0.14	2	2	0	1500	1500	0
6/2/2024 17:42	44301	BEAV_T2	2	5	3	0.25	0.5	0.25	0	0	0	0	0	0	0	0
6/2/2024 17:42	61102	BERK_T5	0	0	0	0	0	0	-1.06	-1.17	2	2	0	1200	1200	0
6/2/2024 17:42	62104	ELAN_T1	0	0	0	0	0	0	-0.09	-0.14	2	2	0	1500	1500	0
6/2/2024 17:42	44302	BEAV_T2	12	9	-3	0.14	0.14	0	0.48	0.47	0	0	0	0	0	0
6/2/2024 17:43	61102	BERK_T5	0	0	0	0	0	0	-2.11	-2.33	4	4	0	2400	2400	0
6/2/2024 17:44	61102	BERK_T5	0	0	0	0	0	0	-1.06	-1.17	2	2	0	1200	1200	0
6/2/2024 17:45	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	-0.15	-0.18	1	1	0	900	900	0
6/2/2024 17:45	12006	HATF_T1	0	0	0	0	0	0	1.16	1.08	0	0	0	0	0	0
6/2/2024 17:45	62104	ELAN_T1	0	0	0	0	0	0	-0.09	-0.14	2	2	0	1500	1500	0
6/2/2024 17:45	12002	HATF_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/2/2024 17:49	51002	NHAR_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/2/2024 17:49	54001	SDLE_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/2/2024 17:49	51003	NHAR_T1	2	5	3	0.2	0.24	0.04	-1.95	-2.06	1	1	0	1200	1200	0
6/2/2024 17:49	51004	NHAR_T1	1	2	1	6.3	3.2	-3.1	0	0	0	0	0	0	0	0
6/2/2024 17:53	60102	COCA_T1	0	0	0	0	0	0	-0.31	-0.26	2	2	0	1200	1200	0
6/2/2024 17:54	54001	SDLE_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/2/2024 17:56	24901	WHHA_T1	0	0	0	0	0	0	-1.17	-1.19	0	0	0	0	0	0
6/2/2024 17:58	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 17:58	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
6/2/2024 18:01	12006	HATF_T1	0	0	0	0	0	0	1.08	1.09	0	0	0	0	0	0
6/2/2024 18:01	12002	HATF_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
6/2/2024 18:04	12606	MACA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 18:04	12601	MACA_T1	0	0	0	0	0	0	1.17	1.17	0	0	0	0	0	0
6/2/2024 18:07	20402	ASHF_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/2/2024 18:07	20403	ASHF_T2	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
6/2/2024 18:13	11104	EGYP_T1	6	10	4	1.45	1.26	-0.19	0	0	0	0	0	0	0	0
6/2/2024 18:13	11103	EGYP_T1	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
6/2/2024 18:13	11102	EGYP_T1	2	1	-1	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
6/2/2024 18:14	46803	HEPB_T2	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
6/2/2024 18:14	46801	HEPB_T2	2	2	0	0.25	1.05	0.8	0	0	0	0	0	0	0	0
6/2/2024 18:15	64701	LITI_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
6/2/2024 18:17	11102	EGYP_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/2/2024 18:17	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 18:17	11104	EGYP_T1	7	8	1	1.01	0.91	-0.1	0	0	0	0	0	0	0	0
6/2/2024 18:17	11103	EGYP_T1	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
6/2/2024 18:17	46801	HEPB_T2	2	2	0	0.95	1.25	0.3	0.02	0.01	0	0	0	0	0	0
6/2/2024 18:19	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 18:22	51505	SWAT_T2	0	0	0	0	0	0	0.45	0.34	0	0	0	0	0	0
6/2/2024 18:23	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 18:23	20403	ASHF_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
6/2/2024 18:26	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 18:26	40502	CRES_T2	6	12	6	0.13	0.3	0.17	-0.74	-0.73	0	0	0	0	0	0
6/2/2024 18:26	29402	BELT_T1	1	1	0	8.3	8.8	0.5	0	0	0	0	0	0	0	0
6/2/2024 18:27	40502	CRES_T2	6	12	6	0.13	0.3	0.17	-0.74	-0.73	0	0	0	0	0	0
6/2/2024 18:27	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 18:33	41902	REED_T1	31	22	-9	0.56	0.29	-0.27	1.18	1.11	0	0	0	0	0	0
6/2/2024 18:36	41902	REED_T1	31	22	-9	0.56	0.29	-0.27	1.18	1.11	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/2/2024 18:38	41902	REED_T1	31	22	-9	0.56	0.29	-0.27	2.22	2.16	0	0	0	0	0	0
6/2/2024 18:43	12006	HATF_T1	0	0	0	0	0	0	1.02	0.95	0	0	0	0	0	0
6/2/2024 18:43	12002	HATF_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
6/2/2024 18:46	60605	NCOL_T2	0	0	0	0	0	0	-1.2	-1.22	0	0	0	0	0	0
6/2/2024 18:49	60605	NCOL_T2	0	0	0	0	0	0	-1.2	-1.22	0	0	0	0	0	0
6/2/2024 18:50	48302	ORWI_T2	2	2	0	0.9	1.2	0.3	-0.43	-0.46	0	0	0	0	0	0
6/2/2024 18:51	24205	PROV_T3	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
6/2/2024 18:51	60605	NCOL_T2	0	0	0	0	0	0	-1.2	-1.22	0	0	0	0	0	0
6/2/2024 18:51	24201	PROV_T3	1	1	0	7.2	6.8	-0.4	-1	-1.03	1	1	0	1200	1200	0
6/2/2024 18:51	24204	PROV_T3	1	1	0	6.2	5.9	-0.3	0	0	0	0	0	0	0	0
6/2/2024 18:55	60101	COCA_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
6/2/2024 18:55	61102	BERK_T5	0	0	0	0	0	0	-2.5	-2.58	4	4	0	2400	2400	0
6/2/2024 18:56	60101	COCA_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
6/2/2024 18:58	44502	HAMI_T2	1	1	0	2	2	0	0	0	0	0	0	0	0	0
6/2/2024 18:58	26703	HEML_T1	0	0	0	0	0	0	-0.88	-0.89	1	1	0	600	600	0
6/2/2024 18:58	60101	COCA_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
6/2/2024 18:58	44505	HAMI_T2	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
6/2/2024 19:03	44502	HAMI_T2	1	1	0	2	2.3	0.3	0	0	0	0	0	0	0	0
6/2/2024 19:03	44505	HAMI_T2	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
6/2/2024 19:05	44902	SCOT_T2	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
6/2/2024 19:15	52004	LING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 19:19	64904	MILL_T1	0	0	0	0	0	0	0.08	0.03	0	0	0	0	0	0
6/2/2024 19:28	53502	EVIL_T2	0	0	0	0	0	0	0.9	0.96	0	0	0	0	0	0
6/2/2024 19:30	64902	MILL_T2	0	0	0	0	0	0	-0.88	-0.94	1	1	0	900	900	0
6/2/2024 19:50	43103	SMIL_T2	4	4	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
6/2/2024 19:50	43104	SMIL_T2	0	0	0	0	0	0	-0.64	-0.64	1	1	0	300	300	0
6/2/2024 19:50	43102	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/2/2024 21:58	13903	SEID_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/2/2024 21:58	13901	SEID_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
6/2/2024 22:00	12606	MACA_T1	0	0	0	0	0	0	-0.04	-0.08	1	1	0	900	900	0
6/2/2024 22:00	16102	BING_T2	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
6/2/2024 22:07	13302	ORVI_T2	0	0	0	0	0	0	1.79	1.62	0	0	0	0	0	0
6/2/2024 22:07	16302	ALPA_T2	0	0	0	0	0	0	0.71	0.68	0	0	0	0	0	0
6/2/2024 22:08	17002	RIRO_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
6/2/2024 22:10	13905	SEID_T1	0	0	0	0	0	0	-0.83	-0.85	1	1	0	1200	1200	0
6/2/2024 22:10	67703	WERN_T2	0	0	0	0	0	0	-0.72	-0.77	1	1	0	900	900	0
6/2/2024 22:10	16006	DORN_T2	0	0	0	0	0	0	-0.27	-0.28	1	1	0	1200	1200	0
6/2/2024 22:10	12801	MICK_T1	0	0	0	0	0	0	-0.98	-1.02	1	1	0	600	600	0
6/2/2024 22:10	12807	MICK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/2/2024 22:11	16302	ALPA_T2	0	0	0	0	0	0	1.36	1.37	0	0	0	0	0	0
6/2/2024 22:13	26704	HEML_T2	77	73	-4	0.23	0.25	0.02	-0.8	-0.83	1	1	0	1200	1200	0
6/2/2024 22:13	26702	HEML_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/2/2024 22:13	24501	GOUL_T2	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
6/2/2024 22:13	13303	ORVI_T1	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
6/2/2024 22:14	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/2/2024 22:14	67703	WERN_T2	0	0	0	0	0	0	-0.72	-0.77	1	1	0	900	900	0
6/2/2024 22:15	11103	EGYP_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
6/2/2024 22:15	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 22:15	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/2/2024 22:15	48302	ORWI_T2	2	2	0	0.9	0.9	0	0.01	0.01	0	0	0	0	0	0
6/2/2024 22:15	11104	EGYP_T1	1	2	1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
6/2/2024 22:16	29402	BELT_T1	1	6	5	9.1	1.72	-7.38	0	0	0	0	0	0	0	0
6/2/2024 22:16	12601	MACA_T1	0	0	0	0	0	0	0.92	0.95	0	0	0	0	0	0
6/2/2024 22:16	26703	HEML_T1	0	0	0	0	0	0	-0.91	-0.94	1	1	0	600	600	0
6/2/2024 22:16	67703	WERN_T2	0	0	0	0	0	0	-1.45	-1.55	2	2	0	1800	1800	0
6/2/2024 22:16	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 22:17	11104	EGYP_T1	1	2	1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
6/2/2024 22:17	11103	EGYP_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
6/2/2024 22:17	12505	MITR_T2	0	0	0	0	0	0	1.79	1.78	0	0	0	0	0	0
6/2/2024 22:17	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/2/2024 22:17	12502	MITR_T2	1	1	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
6/2/2024 22:17	45902	AUBU_T1	2	2	0	0.1	0.1	0	-1.61	-1.62	0	0	0	0	0	0
6/2/2024 22:18	62104	ELAN_T1	0	0	0	0	0	0	-0.3	0	2	1	-1	1500	1200	-300
6/2/2024 22:18	45901	AUBU_T1	0	1	1	0	0.1	0.1	1.07	1.07	0	0	0	0	0	0
6/2/2024 22:18	45902	AUBU_T1	2	2	0	0.1	0.1	0	-0.54	-0.54	0	0	0	0	0	0
6/2/2024 22:18	12006	HATF_T1	0	0	0	0	0	0	0.93	0.97	0	0	0	0	0	0
6/2/2024 22:18	12606	MACA_T1	0	0	0	0	0	0	-0.08	-0.08	1	1	0	900	900	0
6/2/2024 22:19	24902	WHHA_T1	0	0	0	0	0	0	0.43	0.39	0	0	0	0	0	0
6/2/2024 22:19	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/2/2024 22:19	29402	BELT_T1	1	6	5	9.1	1.72	-7.38	0	0	0	0	0	0	0	0
6/2/2024 22:19	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 22:19	25503	MADI_T1	88	174	86	0.34	0.73	0.39	-0.87	-0.84	0	0	0	0	0	0
6/2/2024 22:19	20403	ASHF_T2	0	0	0	0	0	0	0.3	0.24	0	0	0	0	0	0
6/2/2024 22:20	67703	WERN_T2	0	0	0	0	0	0	-0.72	-0.77	1	1	0	900	900	0
6/2/2024 22:20	66505	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/2/2024 22:20	66504	SMAN_T2	0	0	0	0	0	0	-2.96	-0.57	2	0	-2	2400	0	-2400
6/2/2024 22:20	61102	BERK_T5	0	0	0	0	0	0	0.47	0.45	1	1	0	300	300	0
6/2/2024 22:20	53102	WTWN_T1	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
6/2/2024 22:21	24201	PROV_T3	2	11	9	3.05	0.77	-2.28	-1.22	-1.21	1	1	0	1200	1200	0
6/2/2024 22:21	24204	PROV_T3	2	3	1	2.8	1.93	-0.87	0	0	0	0	0	0	0	0
6/2/2024 22:21	43102	SMIL_T2	4	6	2	0.28	0.45	0.17	0	0	0	0	0	0	0	0
6/2/2024 22:21	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/2/2024 22:21	15702	TANN_T2	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
6/2/2024 22:21	43103	SMIL_T2	16	21	5	0.52	0.76	0.24	-4.08	-4.15	0	0	0	0	0	0
6/2/2024 22:21	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/2/2024 22:21	24205	PROV_T3	1	6	5	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/2/2024 22:21	45902	AUBU_T1	2	2	0	0.1	0.1	0	-1.61	-1.62	0	0	0	0	0	0
6/2/2024 22:21	15703	TANN_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
6/2/2024 22:21	48302	ORWI_T2	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0	0
6/2/2024 22:22	42902	MIDD_T2	81	87	6	0.46	0.46	0	-0.56	-0.55	0	0	0	0	0	0
6/2/2024 22:22	67703	WERN_T2	0	0	0	0	0	0	-0.72	-0.77	1	1	0	900	900	0
6/2/2024 22:22	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/2/2024 22:22	21204	ECAR_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/2/2024 22:22	64701	LITI_T1	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
6/2/2024 22:22	29402	BELT_T1	1	6	5	9.1	1.72	-7.38	0	0	0	0	0	0	0	0
6/2/2024 22:22	42903	MIDD_T2	23	23	0	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
6/2/2024 22:22	11804	FRAN_T1	0	0	0	0	0	0	0.69	0.65	0	0	0	0	0	0
6/2/2024 22:22	67602	WARW_T2	0	0	0	0	0	0	-0.31	0.01	2	1	-1	1500	1200	-300
6/2/2024 22:22	45902	AUBU_T1	2	2	0	0.1	0.1	0	-0.54	-0.54	0	0	0	0	0	0
6/2/2024 22:22	21206	ECAR_T2	1	1	0	8.2	8.1	-0.1	-0.04	-0.05	0	0	0	0	0	0
6/2/2024 22:22	42901	MIDD_T2	212	208	-4	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
6/2/2024 22:23	29402	BELT_T1	1	6	5	9.1	1.72	-7.38	0	0	0	0	0	0	0	0
6/2/2024 22:23	64204	KINZ_T1	1	22	21	1.5	0.2	-1.3	0	0	0	0	0	0	0	0
6/2/2024 22:23	13503	MCMI_T2	0	0	0	0	0	0	-1.78	-0.01	0	0	0	0	0	0
6/2/2024 22:23	24901	WHHA_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
6/2/2024 22:23	64101	REFR_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
6/2/2024 22:23	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/2/2024 22:23	64201	KINZ_T1	2	9	7	0.7	0.4	-0.3	-0.52	0.42	2	2	0	1200	1200	0
6/2/2024 22:23	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
6/2/2024 22:23	45802	HEGI_T2	19	47	28	0.56	1.11	0.55	0.19	0.25	0	0	0	0	0	0
6/2/2024 22:23	63501	HEID_TBK1-2	2	2	0	0.45	0.25	-0.2	0.55	0.44	1	0	-1	900	0	-900
6/2/2024 22:23	41902	REED_T1	0	0	0	0	0	0	0.91	0.91	0	0	0	0	0	0
6/2/2024 22:23	64202	KINZ_T1	3	8	5	0.87	0.38	-0.49	0	0	0	0	0	0	0	0
6/2/2024 22:24	53302	GRAT_T2	56	63	7	0.52	0.6	0.08	0	0	0	0	0	0	0	0
6/2/2024 22:24	60605	NCOL_T2	0	0	0	0	0	0	-2.63	-2.57	0	0	0	0	0	0
6/2/2024 22:24	65001	NEFF_T2	32	54	22	0.14	0.14	0	-1.02	-1.01	1	1	0	1200	1200	0
6/2/2024 22:24	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 22:24	67605	WARW_T1	8	14	6	0.21	0.47	0.26	-1.22	-1.12	0	0	0	0	0	0
6/2/2024 22:24	42902	MIDD_T2	81	87	6	0.46	0.46	0	-0.55	-0.61	0	0	0	0	0	0
6/2/2024 22:24	17802	GILB_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
6/2/2024 22:24	67602	WARW_T2	0	0	0	0	0	0	0.03	-0.05	3	3	0	3600	3600	0
6/2/2024 22:24	42901	MIDD_T2	212	208	-4	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
6/2/2024 22:24	66504	SMAN_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
6/2/2024 22:24	67503	WEWI_T2	0	0	0	0	0	0	-1.33	-1.43	0	0	0	0	0	0
6/2/2024 22:24	66505	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/2/2024 22:24	29402	BELT_T1	1	6	5	9.1	1.72	-7.38	0	0	0	0	0	0	0	0
6/2/2024 22:24	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 22:24	61102	BERK_T5	0	0	0	0	0	0	0.45	0.41	1	1	0	300	300	0
6/2/2024 22:24	42903	MIDD_T2	23	23	0	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
6/2/2024 22:24	65003	NEFF_T2	46	30	-16	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
6/2/2024 22:25	10805	CHHI_T2	1	1	0	7.9	7.6	-0.3	-1.03	-1	1	1	0	600	600	0
6/2/2024 22:25	16006	DORN_T2	0	0	0	0	0	0	-0.28	-0.27	1	1	0	1200	1200	0
6/2/2024 22:25	10801	CHHI_T1	5	12	7	0.1	0.1	0	-1.75	-1.16	3	2	-1	2100	1500	-600
6/2/2024 22:25	67602	WARW_T2	0	0	0	0	0	0	0.01	-0.02	1	1	0	1200	1200	0
6/2/2024 22:25	67603	WARW_T1	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
6/2/2024 22:25	20403	ASHF_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
6/2/2024 22:25	43102	SMIL_T2	4	6	2	0.28	0.45	0.17	0	0	0	0	0	0	0	0
6/2/2024 22:25	61801	EELI_T2	0	0	0	0	0	0	-1.38	-1.51	2	2	0	1200	1200	0
6/2/2024 22:25	44302	BEAV_T2	201	81	-120	0.31	0.25	-0.06	0.68	0.94	0	0	0	0	0	0
6/2/2024 22:25	67605	WARW_T1	8	14	6	0.21	0.47	0.26	0	0	0	0	0	0	0	0
6/2/2024 22:25	43108	SMIL_T2	0	0	0	0	0	0	-1.17	-1.23	1	1	0	1200	1200	0
6/2/2024 22:25	43103	SMIL_T2	16	21	5	0.52	0.76	0.24	0	0	0	0	0	0	0	0
6/2/2024 22:25	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/2/2024 22:25	61102	BERK_T5	0	0	0	0	0	0	0.45	0.41	1	1	0	300	300	0
6/2/2024 22:25	44301	BEAV_T2	9	6	-3	0.41	0.32	-0.09	0	0	0	0	0	0	0	0
6/2/2024 22:26	63304	GREE_T1	0	0	0	0	0	0	-1.59	-1.62	0	0	0	0	0	0
6/2/2024 22:26	42901	MIDD_T2	212	208	-4	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
6/2/2024 22:26	45902	AUBU_T1	2	2	0	0.1	0.1	0	-0.54	-0.53	0	0	0	0	0	0
6/2/2024 22:26	42903	MIDD_T2	23	23	0	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
6/2/2024 22:26	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/2/2024 22:26	67602	WARW_T2	0	0	0	0	0	0	0.01	-0.02	1	1	0	1200	1200	0
6/2/2024 22:26	42902	MIDD_T2	81	87	6	0.46	0.46	0	-0.55	-0.61	0	0	0	0	0	0
6/2/2024 22:26	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 22:26	63305	GREE_T1	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/2/2024 22:27	41902	REED_T1	0	0	0	0	0	0	0.91	0.91	0	0	0	0	0	0
6/2/2024 22:27	48302	ORWI_T2	2	2	0	0.9	0.9	0	0.01	-0.02	0	0	0	0	0	0
6/2/2024 22:27	40501	CRES_T2	8	11	3	0.24	0.29	0.05	0	0	0	0	0	0	0	0
6/2/2024 22:27	40502	CRES_T2	26	40	14	0.29	0.36	0.07	-0.34	-0.33	0	0	0	0	0	0
6/2/2024 22:27	26603	BROO_T1	0	0	0	0	0	0	0.55	0.57	0	0	0	0	0	0
6/2/2024 22:27	63305	GREE_T1	2	2	0	0.2	0.1	-0.1	-2.28	-2.29	1	1	0	900	900	0
6/2/2024 22:27	51003	NHAR_T1	79	124	45	0.21	0.24	0.03	-2.15	-2.18	1	1	0	1200	1200	0
6/2/2024 22:27	51002	NHAR_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
6/2/2024 22:27	51004	NHAR_T1	7	11	4	1.09	0.8	-0.29	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/2/2024 22:27	16302	ALPA_T2	0	0	0	0	0	0	0.69	0.65	0	0	0	0	0	0
6/2/2024 22:27	10801	CHHI_T1	5	12	7	0.1	0.1	0	-3.5	-2.32	6	4	-2	4200	3000	-1200
6/2/2024 22:27	61303	EARL_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
6/2/2024 22:27	22602	KIMB_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
6/2/2024 22:27	64902	MILL_T2	0	0	0	0	0	0	-1.06	-1.08	1	1	0	900	900	0
6/2/2024 22:27	62104	ELAN_T1	0	0	0	0	0	0	0	0.17	1	1	0	1200	1200	0
6/2/2024 22:27	14201	EALL_T1	0	0	0	0	0	0	-0.45	-0.54	0	0	0	0	0	0
6/2/2024 22:28	64902	MILL_T2	0	0	0	0	0	0	-1.06	-1.08	1	1	0	900	900	0
6/2/2024 22:28	43102	SMIL_T2	4	6	2	0.28	0.45	0.17	0	0	0	0	0	0	0	0
6/2/2024 22:28	67503	WEWI_T2	0	0	0	0	0	0	-0.67	-0.72	0	0	0	0	0	0
6/2/2024 22:28	44505	HAMI_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
6/2/2024 22:28	43103	SMIL_T2	16	21	5	0.52	0.76	0.24	0	0	0	0	0	0	0	0
6/2/2024 22:28	64904	MILL_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
6/2/2024 22:28	43108	SMIL_T2	0	0	0	0	0	0	-1.17	-1.23	1	1	0	1200	1200	0
6/2/2024 22:28	44502	HAMI_T2	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
6/2/2024 22:28	47001	HUGH_T2	0	0	0	0	0	0	-1.8	-1.81	1	1	0	900	900	0
6/2/2024 22:29	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 22:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 22:29	21206	ECAR_T2	1	1	0	8.2	8.1	-0.1	-0.05	-0.08	0	0	0	0	0	0
6/2/2024 22:29	64902	MILL_T2	0	0	0	0	0	0	-1.06	-1.08	1	1	0	900	900	0
6/2/2024 22:29	60101	COCA_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
6/2/2024 22:29	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 22:29	41304	FISH_T2	1	1	0	0	0	0	0.34	0.25	0	0	0	0	0	0
6/2/2024 22:29	61303	EARL_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
6/2/2024 22:29	21204	ECAR_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/2/2024 22:29	51505	SWAT_T2	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
6/2/2024 22:29	67503	WEWI_T2	0	0	0	0	0	0	-0.67	-0.72	0	0	0	0	0	0
6/2/2024 22:29	67602	WARW_T2	0	0	0	0	0	0	0.01	-0.02	1	1	0	1200	1200	0
6/2/2024 22:29	61102	BERK_T5	0	0	0	0	0	0	0.45	0.41	1	1	0	300	300	0
6/2/2024 22:29	41902	REED_T1	0	0	0	0	0	0	0.91	0.91	0	0	0	0	0	0
6/2/2024 22:29	62104	ELAN_T1	0	0	0	0	0	0	0	0.17	1	1	0	1200	1200	0
6/2/2024 22:30	47802	MOCA_T2	0	0	0	0	0	0	-0.92	-0.96	0	0	0	0	0	0
6/2/2024 22:30	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/2/2024 22:30	59101	WALK_T2	0	0	0	0	0	0	-0.53	-0.57	0	0	0	0	0	0
6/2/2024 22:30	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/2/2024 22:30	45902	AUBU_T1	1	2	1	0	0.1	0.1	-0.54	-0.53	0	0	0	0	0	0
6/2/2024 22:30	21203	ECAR_T1	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
6/2/2024 22:30	46302	ROHR_T1	4	4	0	1.4	1.83	0.43	0.19	0.18	0	0	0	0	0	0
6/2/2024 22:30	67602	WARW_T2	0	0	0	0	0	0	0.02	-0.03	2	2	0	2400	2400	0
6/2/2024 22:30	48302	ORWI_T2	2	2	0	0.7	0.9	0.2	0.01	-0.02	0	0	0	0	0	0
6/2/2024 22:30	24902	WHHA_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
6/2/2024 22:30	63305	GREE_T1	2	2	0	0.1	0.2	0.1	-2.28	-2.29	1	1	0	900	900	0
6/2/2024 22:30	52002	LING_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
6/2/2024 22:31	61102	BERK_T5	0	0	0	0	0	0	0.45	0.41	1	1	0	300	300	0
6/2/2024 22:31	17804	GILB_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
6/2/2024 22:31	67703	WERN_T2	0	0	0	0	0	0	-0.77	-0.79	1	1	0	900	900	0
6/2/2024 22:31	67503	WEWI_T2	0	0	0	0	0	0	-0.67	-0.72	0	0	0	0	0	0
6/2/2024 22:31	60102	COCA_T1	0	0	0	0	0	0	-0.27	0.05	2	2	0	1200	1200	0
6/2/2024 22:31	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	900	900	0
6/2/2024 22:31	44301	BEAV_T2	6	3	-3	0.32	0.33	0.01	-0.26	-0.27	0	0	0	0	0	0
6/2/2024 22:31	60101	COCA_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
6/2/2024 22:31	44302	BEAV_T2	81	41	-40	0.25	0.17	-0.08	0	0	0	0	0	0	0	0
6/2/2024 22:31	17803	GILB_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/2/2024 22:31	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/2/2024 22:32	59101	WALK_T2	0	0	0	0	0	0	-0.53	-0.57	0	0	0	0	0	0
6/2/2024 22:32	22903	HARW_T1	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
6/2/2024 22:32	20603	GRWO_T2	3	11	8	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/2/2024 22:32	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
6/2/2024 22:32	29402	BELT_T1	6	1	-5	1.72	9.1	7.38	0	0	0	0	0	0	0	0
6/2/2024 22:32	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 22:32	20601	GRWO_T2	6	29	23	0.15	0.16	0.01	-0.33	-0.35	0	0	0	0	0	0
6/2/2024 22:32	42701	AUGU_T1	25	14	-11	0.43	0.34	-0.09	0	0	0	0	0	0	0	0
6/2/2024 22:32	41304	FISH_T2	1	1	0	0	0	0	0.68	0.49	0	0	0	0	0	0
6/2/2024 22:32	22905	HARW_T1	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
6/2/2024 22:32	22901	HARW_T1	0	0	0	0	0	0	-0.58	-0.71	1	1	0	1200	1200	0
6/2/2024 22:32	61102	BERK_T5	0	0	0	0	0	0	0.45	0.41	1	1	0	300	300	0
6/2/2024 22:32	60605	NCOL_T2	0	0	0	0	0	0	-1.32	-1.29	0	0	0	0	0	0
6/2/2024 22:32	15702	TANN_T2	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
6/2/2024 22:33	61102	BERK_T5	0	0	0	0	0	0	0.45	0.41	1	1	0	300	300	0
6/2/2024 22:33	26601	BROO_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
6/2/2024 22:33	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
6/2/2024 22:33	42301	MOWR_T2	0	0	0	0	0	0	0.68	0	0	0	0	0	0	0
6/2/2024 22:33	41304	FISH_T2	1	1	0	0	0	0	0.34	0.25	0	0	0	0	0	0
6/2/2024 22:33	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 22:33	42903	MIDD_T2	22	46	24	0.39	0.33	-0.06	-0.23	-0.22	0	0	0	0	0	0
6/2/2024 22:33	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/2/2024 22:33	42901	MIDD_T2	197	264	67	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/2/2024 22:33	61303	EARL_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
6/2/2024 22:33	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/2/2024 22:33	67602	WARW_T2	0	0	0	0	0	0	0.01	-0.02	1	1	0	1200	1200	0
6/2/2024 22:33	42902	MIDD_T2	87	133	46	0.45	0.44	-0.01	0	0	0	0	0	0	0	0
6/2/2024 22:33	15702	TANN_T2	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
6/2/2024 22:34	56801	BENV_T1	8	11	3	0.88	1.25	0.37	-1.03	-1.08	2	2	0	1200	1200	0
6/2/2024 22:34	29402	BELT_T1	6	1	-5	1.72	9.1	7.38	0	0	0	0	0	0	0	0
6/2/2024 22:34	55405	SHER_T1	0	0	0	0	0	0	-0.75	-0.78	0	0	0	0	0	0
6/2/2024 22:34	55002	NEWP_T1	4	6	2	0.38	0.72	0.34	-0.23	-0.22	0	0	0	0	0	0
6/2/2024 22:34	41902	REED_T1	0	0	0	0	0	0	0.91	0.91	0	0	0	0	0	0
6/2/2024 22:34	44301	BEAV_T2	6	3	-3	0.32	0.33	0.01	0	0	0	0	0	0	0	0
6/2/2024 22:34	43102	SMIL_T2	4	6	2	0.33	0.45	0.12	0	0	0	0	0	0	0	0
6/2/2024 22:34	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 22:34	44302	BEAV_T2	81	41	-40	0.25	0.17	-0.08	0.68	0.94	0	0	0	0	0	0
6/2/2024 22:34	43103	SMIL_T2	19	21	2	0.39	0.76	0.37	-2.08	-2.08	0	0	0	0	0	0
6/2/2024 22:34	40501	CRES_T2	10	11	1	0.22	0.33	0.11	0	0	0	0	0	0	0	0
6/2/2024 22:34	60101	COCA_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
6/2/2024 22:34	41304	FISH_T2	1	1	0	0	0	0	0.34	0.25	0	0	0	0	0	0
6/2/2024 22:34	45802	HEGI_T2	47	41	-6	1.11	0.84	-0.27	0.19	0.25	0	0	0	0	0	0
6/2/2024 22:34	24901	WHHA_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
6/2/2024 22:34	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 22:34	40502	CRES_T2	31	44	13	0.34	0.36	0.02	-0.34	-0.33	0	0	0	0	0	0
6/2/2024 22:34	67605	WARW_T1	14	15	1	0.46	0.47	0.01	-1.22	-1.12	0	0	0	0	0	0
6/2/2024 22:35	29402	BELT_T1	6	1	-5	1.72	9.1	7.38	0	0	0	0	0	0	0	0
6/2/2024 22:35	52004	LING_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
6/2/2024 22:35	67605	WARW_T1	14	15	1	0.46	0.47	0.01	-1.22	-1.12	0	0	0	0	0	0
6/2/2024 22:35	44601	SALE_T2	1	1	0	0.5	0.6	0.1	-0.05	-0.04	0	0	0	0	0	0
6/2/2024 22:35	61102	BERK_T5	0	0	0	0	0	0	0.45	0.41	1	1	0	300	300	0
6/2/2024 22:35	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 22:35	45501	DERR_T2	0	0	0	0	0	0	-0.7	-0.6	2	2	0	1800	1800	0
6/2/2024 22:35	43103	SMIL_T2	19	21	2	0.39	0.76	0.37	-2.08	-2.08	0	0	0	0	0	0
6/2/2024 22:35	56801	BENV_T1	8	11	3	0.88	1.25	0.37	-2.07	-2.17	4	4	0	2400	2400	0
6/2/2024 22:35	41304	FISH_T2	1	1	0	0	0	0	0.34	0.25	0	0	0	0	0	0
6/2/2024 22:35	63305	GREE_T1	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/2/2024 22:35	60101	COCA_T1	0	0	0	0	0	0	0.8	0.73	0	0	0	0	0	0
6/2/2024 22:35	63304	GREE_T1	0	0	0	0	0	0	-1.59	-1.62	0	0	0	0	0	0
6/2/2024 22:35	44902	SCOT_T2	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
6/2/2024 22:35	43102	SMIL_T2	4	6	2	0.33	0.45	0.12	0	0	0	0	0	0	0	0
6/2/2024 22:36	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 22:36	59101	WALK_T2	0	0	0	0	0	0	-0.53	-0.57	0	0	0	0	0	0
6/2/2024 22:36	45501	DERR_T2	0	0	0	0	0	0	-0.7	-0.6	2	2	0	1800	1800	0
6/2/2024 22:36	44301	BEAV_T2	6	3	-3	0.32	0.33	0.01	-0.26	-0.27	0	0	0	0	0	0
6/2/2024 22:36	60605	NCOL_T2	0	0	0	0	0	0	-1.32	-1.29	0	0	0	0	0	0
6/2/2024 22:36	44302	BEAV_T2	81	41	-40	0.25	0.17	-0.08	1.36	1.88	0	0	0	0	0	0
6/2/2024 22:37	42901	MIDD_T2	197	264	67	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/2/2024 22:37	58001	WCAR_T1	4	4	0	0.93	0.93	0	0	0	0	0	0	0	0	0
6/2/2024 22:37	43102	SMIL_T2	4	6	2	0.33	0.45	0.12	0	0	0	0	0	0	0	0
6/2/2024 22:37	61303	EARL_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
6/2/2024 22:37	42902	MIDD_T2	87	133	46	0.45	0.44	-0.01	-0.55	-0.61	0	0	0	0	0	0
6/2/2024 22:37	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/2/2024 22:37	43103	SMIL_T2	19	21	2	0.39	0.76	0.37	0	0	0	0	0	0	0	0
6/2/2024 22:37	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 22:37	42903	MIDD_T2	22	46	24	0.39	0.33	-0.06	0	0	0	0	0	0	0	0
6/2/2024 22:37	46504	LOHA_T1	2	2	0	0.85	1.45	0.6	0	0	0	0	0	0	0	0
6/2/2024 22:37	43108	SMIL_T2	0	0	0	0	0	0	-1.17	-1.23	1	1	0	1200	1200	0
6/2/2024 22:37	45902	AUBU_T1	1	2	1	0	0.1	0.1	-0.54	-0.53	0	0	0	0	0	0
6/2/2024 22:37	55002	NEWP_T1	4	6	2	0.38	0.72	0.34	-0.23	-0.22	0	0	0	0	0	0
6/2/2024 22:37	46506	LOHA_T1	1	1	0	0.2	0.4	0.2	-0.37	-0.37	0	0	0	0	0	0
6/2/2024 22:37	58003	WCAR_T1	1	1	0	2.1	2	-0.1	0	0	1	1	0	600	600	0
6/2/2024 22:38	43202	MVIL_T2	0	10	10	0	0.14	0.14	0	0	0	0	0	0	0	0
6/2/2024 22:38	42701	AUGU_T1	25	14	-11	0.43	0.34	-0.09	0	0	0	0	0	0	0	0
6/2/2024 22:38	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 22:38	51003	NHAR_T1	82	124	42	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
6/2/2024 22:38	56801	BENV_T1	8	11	3	0.88	1.25	0.37	-1.08	-1.1	2	2	0	1200	1200	0
6/2/2024 22:38	52404	GRPA_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
6/2/2024 22:38	43102	SMIL_T2	4	6	2	0.33	0.45	0.12	0	0	0	0	0	0	0	0
6/2/2024 22:38	51002	NHAR_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
6/2/2024 22:38	52401	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/2/2024 22:38	43201	MVIL_T2	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
6/2/2024 22:38	43103	SMIL_T2	19	21	2	0.39	0.76	0.37	-4.16	-4.23	0	0	0	0	0	0
6/2/2024 22:38	52402	GRPA_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/2/2024 22:38	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/2/2024 22:38	56803	BENV_T1	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
6/2/2024 22:38	51004	NHAR_T1	10	8	-2	0.87	1.03	0.16	-0.33	-0.41	0	0	0	0	0	0
6/2/2024 22:38	42301	MOWR_T2	0	0	0	0	0	0	0	1.34	0	0	0	0	0	0
6/2/2024 22:38	67201	TEHI_T1	0	0	0	0	0	0	0.35	0.3	0	0	0	0	0	0
6/2/2024 22:39	44502	HAMI_T2	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
6/2/2024 22:39	52402	GRPA_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/2/2024 22:39	20603	GRWO_T2	3	11	8	0.1	0.13	0.03	0.39	0.42	0	0	0	0	0	0
6/2/2024 22:39	26603	BROO_T1	0	0	0	0	0	0	0.57	0.53	0	0	0	0	0	0
6/2/2024 22:39	58003	WCAR_T1	1	1	0	2.1	2	-0.1	0	0.62	1	1	0	600	600	0
6/2/2024 22:39	58001	WCAR_T1	4	4	0	0.93	0.93	0	0	0	0	0	0	0	0	0
6/2/2024 22:39	43103	SMIL_T2	19	21	2	0.39	0.76	0.37	0	0	0	0	0	0	0	0
6/2/2024 22:39	52401	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/2/2024 22:39	66703	STRA_T1	0	4	4	0	0.25	0.25	-0.29	-0.26	0	0	0	0	0	0
6/2/2024 22:39	20601	GRWO_T2	6	29	23	0.15	0.16	0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/2/2024 22:39	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 22:39	44302	BEAV_T2	81	41	-40	0.25	0.17	-0.08	0	0	0	0	0	0	0	0
6/2/2024 22:39	43104	SMIL_T2	0	0	0	0	0	0	-0.73	-0.73	1	1	0	300	300	0
6/2/2024 22:39	44505	HAMI_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
6/2/2024 22:39	52404	GRPA_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
6/2/2024 22:39	43102	SMIL_T2	4	6	2	0.33	0.45	0.12	0	0	0	0	0	0	0	0
6/2/2024 22:39	44301	BEAV_T2	6	3	-3	0.32	0.33	0.01	-0.27	-0.24	0	0	0	0	0	0
6/2/2024 22:40	56801	BENV_T1	8	11	3	0.88	1.25	0.37	-1.08	-1.1	2	2	0	1200	1200	0
6/2/2024 22:40	46504	LOHA_T1	2	2	0	0.85	1.45	0.6	0	0	0	0	0	0	0	0
6/2/2024 22:40	22905	HARW_T1	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
6/2/2024 22:40	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	900	900	0
6/2/2024 22:40	45501	DERR_T2	0	0	0	0	0	0	-0.6	-0.59	2	2	0	1800	1800	0
6/2/2024 22:40	55002	NEWP_T1	4	6	2	0.38	0.72	0.34	-0.22	-0.25	0	0	0	0	0	0
6/2/2024 22:40	46506	LOHA_T1	1	1	0	0.2	0.4	0.2	-0.74	-0.73	0	0	0	0	0	0
6/2/2024 22:40	22901	HARW_T1	0	0	0	0	0	0	-0.71	-0.7	1	1	0	1200	1200	0
6/2/2024 22:40	22903	HARW_T1	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
6/2/2024 22:40	52004	LING_T2	0	0	0	0	0	0	-0.09	-0.05	0	0	0	0	0	0
6/2/2024 22:41	42903	MIDD_T2	22	46	24	0.39	0.33	-0.06	0	0	0	0	0	0	0	0
6/2/2024 22:41	43104	SMIL_T2	0	0	0	0	0	0	-0.73	-0.73	1	1	0	300	300	0
6/2/2024 22:41	43103	SMIL_T2	19	21	2	0.39	0.76	0.37	0	0	0	0	0	0	0	0
6/2/2024 22:41	52403	GRPA_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
6/2/2024 22:41	52402	GRPA_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/2/2024 22:41	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 22:41	42902	MIDD_T2	87	133	46	0.45	0.44	-0.01	-0.61	-0.62	0	0	0	0	0	0
6/2/2024 22:41	47001	HUGH_T2	0	0	0	0	0	0	-1.81	-1.86	1	1	0	900	900	0
6/2/2024 22:41	42901	MIDD_T2	197	264	67	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/2/2024 22:41	47002	HUGH_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
6/2/2024 22:41	43102	SMIL_T2	4	6	2	0.33	0.45	0.12	0	0	0	0	0	0	0	0
6/2/2024 22:41	52401	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/2/2024 22:42	44302	BEAV_T2	81	41	-40	0.25	0.17	-0.08	0	0	0	0	0	0	0	0
6/2/2024 22:42	42301	MOWR_T2	0	0	0	0	0	0	0	0.67	0	0	0	0	0	0
6/2/2024 22:42	44301	BEAV_T2	6	3	-3	0.32	0.33	0.01	-0.27	-0.24	0	0	0	0	0	0
6/2/2024 22:42	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 22:42	46504	LOHA_T1	2	2	0	0.85	1.45	0.6	0	0	0	0	0	0	0	0
6/2/2024 22:42	63801	HEMP_T1	0	0	0	0	0	0	-1.07	-0.92	1	1	0	900	900	0
6/2/2024 22:42	46506	LOHA_T1	1	1	0	0.2	0.4	0.2	-0.37	-0.36	0	0	0	0	0	0
6/2/2024 22:42	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
6/2/2024 22:43	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 22:43	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	900	900	0
6/2/2024 22:43	46506	LOHA_T1	1	1	0	0.2	0.4	0.2	-0.37	-0.36	0	0	0	0	0	0
6/2/2024 22:43	43301	WATS_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/2/2024 22:43	44301	BEAV_T2	6	3	-3	0.32	0.33	0.01	-1.09	-0.94	0	0	0	0	0	0
6/2/2024 22:43	54001	SDLE_T1	0	1	1	0	0.4	0.4	0	0	1	1	0	600	600	0
6/2/2024 22:43	46504	LOHA_T1	2	2	0	0.85	1.45	0.6	0	0	0	0	0	0	0	0
6/2/2024 22:43	55002	NEWP_T1	4	6	2	0.38	0.72	0.34	-0.22	-0.25	0	0	0	0	0	0
6/2/2024 22:43	41902	REED_T1	0	0	0	0	0	0	0.91	0.91	0	0	0	0	0	0
6/2/2024 22:43	44302	BEAV_T2	81	41	-40	0.25	0.17	-0.08	0	0	0	0	0	0	0	0
6/2/2024 22:44	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 22:44	43102	SMIL_T2	4	6	2	0.33	0.45	0.12	0	0	0	0	0	0	0	0
6/2/2024 22:44	43301	WATS_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/2/2024 22:44	56801	BENV_T1	8	11	3	0.88	1.25	0.37	-2.17	-2.19	4	4	0	2400	2400	0
6/2/2024 22:44	43103	SMIL_T2	19	21	2	0.39	0.76	0.37	0	0	0	0	0	0	0	0
6/2/2024 22:44	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/2/2024 22:44	46801	HEPB_T2	2	3	1	0.55	0.57	0.02	0.72	0.69	0	0	0	0	0	0
6/2/2024 22:44	43104	SMIL_T2	0	0	0	0	0	0	-0.73	-0.73	1	1	0	300	300	0
6/2/2024 22:45	46302	ROHR_T1	4	4	0	1.78	1.68	-0.1	0.18	0.18	0	0	0	0	0	0
6/2/2024 22:45	40902	JESH_T1	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
6/2/2024 22:45	46504	LOHA_T1	2	53	51	1.05	0.7	-0.35	0	0	0	0	0	0	0	0
6/2/2024 22:45	46801	HEPB_T2	2	3	1	0.55	0.57	0.02	0.72	0.69	0	0	0	0	0	0
6/2/2024 22:45	52401	GRPA_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
6/2/2024 22:45	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/2/2024 22:45	52403	GRPA_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
6/2/2024 22:45	58001	WCAR_T1	4	4	0	0.58	1.03	0.45	0	0	0	0	0	0	0	0
6/2/2024 22:45	52402	GRPA_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/2/2024 22:45	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2024 22:45	52002	LING_T2	0	0	0	0	0	0	0.28	0.12	0	0	0	0	0	0
6/2/2024 22:45	41902	REED_T1	0	0	0	0	0	0	0.91	0.91	0	0	0	0	0	0
6/2/2024 22:45	58003	WCAR_T1	1	1	0	2	1.6	-0.4	0	0.62	1	0	-1	600	0	-600
6/2/2024 22:45	46506	LOHA_T1	1	1	0	0.1	0.5	0.4	-0.37	-0.36	0	0	0	0	0	0
6/2/2024 22:45	43301	WATS_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/2/2024 22:46	40101	HUNT_T2	0	0	0	0	0	0	0	-0.55	0	0	0	0	0	0
6/2/2024 22:46	44302	BEAV_T2	9	95	86	0.18	0.24	0.06	0.94	0.95	0	0	0	0	0	0
6/2/2024 22:46	44301	BEAV_T2	2	6	4	0.3	0.32	0.02	-0.54	-0.47	0	0	0	0	0	0
6/2/2024 22:47	58401	MORO_T1	0	0	0	0	0	0	-0.99	-1.04	1	1	0	600	600	0
6/2/2024 22:47	56801	BENV_T1	8	23	15	1.44	0.89	-0.55	-1.08	-1.1	2	2	0	1200	1200	0
6/2/2024 22:47	52402	GRPA_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/2/2024 22:47	58402	MORO_T1	0	0	0	0	0	0	-0.51	-0.5	2	2	0	1500	1500	0
6/2/2024 22:47	46803	HEPB_T2	0	1	1	0	0.1	0.1	0.51	0.53	0	0	0	0	0	0
6/2/2024 22:47	52403	GRPA_T2	0	0	0	0	0	0	-1.12	-1.15	0	0	0	0	0	0
6/2/2024 22:47	46801	HEPB_T2	2	3	1	0.55	0.57	0.02	0	0	0	0	0	0	0	0
6/2/2024 22:47	52401	GRPA_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
6/2/2024 22:48	56801	BENV_T1	8	23	15	1.44	0.89	-0.55	-1.08	-1.1	2	2	0	1200	1200	0
6/2/2024 22:48	52402	GRPA_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/2/2024 22:48	44302	BEAV_T2	9	95	86	0.18	0.24	0.06	0.94	0.95	0	0	0	0	0	0
6/2/2024 22:48	52401	GRPA_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
6/2/2024 22:48	52403	GRPA_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
6/2/2024 22:48	44301	BEAV_T2	2	6	4	0.3	0.32	0.02	0	0	0	0	0	0	0	0
6/2/2024 22:49	54001	SDLE_T1	1	2	1	0.2	0.35	0.15	0	0	1	1	0	600	600	0
6/2/2024 22:49	56801	BENV_T1	8	23	15	1.44	0.89	-0.55	-2.17	-2.19	4	4	0	2400	2400	0
6/2/2024 22:50	40101	HUNT_T2	0	0	0	0	0	0	0	-0.55	0	0	0	0	0	0
6/2/2024 22:51	52402	GRPA_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/2/2024 22:51	58401	MORO_T1	0	0	0	0	0	0	-0.99	-1.04	1	1	0	600	600	0
6/2/2024 22:51	52401	GRPA_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
6/2/2024 22:51	52403	GRPA_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
6/2/2024 22:54	67605	WARW_T1	14	15	1	0.45	0.45	0	-1.13	-1.17	0	0	0	0	0	0
6/2/2024 22:55	67605	WARW_T1	14	15	1	0.45	0.45	0	-1.13	-1.17	0	0	0	0	0	0
6/2/2024 23:13	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.93	1	1	0	900	900	0
6/2/2024 23:14	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.93	1	1	0	900	900	0
6/2/2024 23:17	67605	WARW_T1	13	14	1	0.42	0.59	0.17	-1.17	-1.21	0	0	0	0	0	0
6/2/2024 23:18	67605	WARW_T1	13	14	1	0.42	0.59	0.17	-1.17	-1.21	0	0	0	0	0	0
6/2/2024 23:37	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
6/2/2024 23:37	67605	WARW_T1	14	16	2	0.35	0.65	0.3	-1.21	-1.21	0	0	0	0	0	0
6/2/2024 23:38	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.93	1	1	0	900	900	0
6/2/2024 23:38	67605	WARW_T1	14	16	2	0.35	0.65	0.3	-1.21	-1.19	0	0	0	0	0	0
6/2/2024 23:53	67603	WARW_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
6/2/2024 23:53	67605	WARW_T1	14	19	5	0.59	0.61	0.02	0	0	0	0	0	0	0	0
6/2/2024 23:57	67605	WARW_T1	14	19	5	0.59	0.61	0.02	-1.19	-1.2	0	0	0	0	0	0
6/2/2024 23:57	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
6/2/2024 23:58	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
6/2/2024 23:58	67605	WARW_T1	14	19	5	0.59	0.61	0.02	-1.19	-1.2	0	0	0	0	0	0
6/3/2024 0:09	65901	SAKR_T2	1	1	0	8.7	8.9	0.2	-1.27	-1.29	1	1	0	900	900	0
6/3/2024 0:17	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.95	1	1	0	900	900	0
6/3/2024 0:17	67605	WARW_T1	19	29	10	0.61	0.65	0.04	-1.2	-1.22	0	0	0	0	0	0
6/3/2024 0:18	67605	WARW_T1	19	29	10	0.61	0.65	0.04	-1.2	-1.22	0	0	0	0	0	0
6/3/2024 0:18	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.95	1	1	0	900	900	0
6/3/2024 0:37	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
6/3/2024 0:37	67605	WARW_T1	23	46	23	0.61	0.5	-0.11	-1.22	-1.23	0	0	0	0	0	0
6/3/2024 0:38	67605	WARW_T1	23	46	23	0.61	0.5	-0.11	-1.23	-1.25	0	0	0	0	0	0
6/3/2024 0:38	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.94	1	1	0	900	900	0
6/3/2024 0:57	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.93	1	1	0	900	900	0
6/3/2024 0:57	67605	WARW_T1	29	49	20	0.65	0.54	-0.11	-1.25	-1.27	0	0	0	0	0	0
6/3/2024 0:58	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.93	1	1	0	900	900	0
6/3/2024 0:58	67605	WARW_T1	29	49	20	0.65	0.54	-0.11	-1.25	-1.27	0	0	0	0	0	0
6/3/2024 1:17	67605	WARW_T1	44	46	2	0.58	0.66	0.08	-1.27	-1.24	0	0	0	0	0	0
6/3/2024 1:17	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
6/3/2024 1:18	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
6/3/2024 1:18	67605	WARW_T1	44	46	2	0.58	0.66	0.08	-1.27	-1.24	0	0	0	0	0	0
6/3/2024 1:37	67605	WARW_T1	39	52	13	0.62	0.63	0.01	-1.24	-1.25	0	0	0	0	0	0
6/3/2024 1:37	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
6/3/2024 1:38	67605	WARW_T1	39	52	13	0.62	0.63	0.01	-1.25	-1.29	0	0	0	0	0	0
6/3/2024 1:38	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
6/3/2024 1:56	67702	WERN_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
6/3/2024 2:01	67605	WARW_T1	52	41	-11	0.63	0.59	-0.04	-1.29	-1.29	0	0	0	0	0	0
6/3/2024 2:01	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
6/3/2024 2:02	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
6/3/2024 2:02	67605	WARW_T1	52	41	-11	0.63	0.59	-0.04	-1.29	-1.29	0	0	0	0	0	0
6/3/2024 2:21	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
6/3/2024 2:21	67605	WARW_T1	41	35	-6	0.59	0.62	0.03	-1.29	-1.3	0	0	0	0	0	0
6/3/2024 2:22	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
6/3/2024 2:22	67605	WARW_T1	41	35	-6	0.59	0.62	0.03	-1.29	-1.3	0	0	0	0	0	0
6/3/2024 2:41	67605	WARW_T1	35	34	-1	0.59	0.64	0.05	-1.29	-1.3	0	0	0	0	0	0
6/3/2024 2:41	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.96	1	1	0	900	900	0
6/3/2024 2:42	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.96	1	1	0	900	900	0
6/3/2024 2:42	67605	WARW_T1	35	34	-1	0.59	0.64	0.05	-1.29	-1.3	0	0	0	0	0	0
6/3/2024 6:24	10102	ALLE_T2	1	1	0	7.6	7.3	-0.3	0	0	0	0	0	0	0	0
6/3/2024 6:24	29402	BELT_T1	1	1	0	8	7.5	-0.5	0	0	0	0	0	0	0	0
6/3/2024 6:24	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/3/2024 6:24	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 6:26	10105	ALLE_T3	3	7	4	0.2	0.33	0.13	0	0	0	0	0	0	0	0
6/3/2024 6:26	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 6:36	10105	ALLE_T3	7	7	0	0.67	0	-0.67	0	0	0	0	0	0	0	0
6/3/2024 6:36	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 6:37	56801	BENV_T1	14	11	-3	1.04	1.22	0.18	0	0	0	0	0	0	0	0
6/3/2024 6:37	56803	BENV_T1	0	2	2	0	3	3	-0.12	-0.12	0	0	0	0	0	0
6/3/2024 6:40	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 6:40	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/3/2024 6:40	10102	ALLE_T2	1	1	0	8.1	6.9	-1.2	0	0	0	0	0	0	0	0
6/3/2024 6:40	29402	BELT_T1	1	1	0	7.5	7.7	0.2	0	0	0	0	0	0	0	0
6/3/2024 6:48	13501	MCMI_T1	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
6/3/2024 6:48	13502	MCMI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 6:54	56802	BENV_T2	1	1	0	0.1	0.4	0.3	-1.41	-1.36	0	0	0	0	0	0
6/3/2024 6:54	20403	ASHF_T2	0	0	0	0	0	0	0.99	1.04	0	0	0	0	0	0
6/3/2024 6:56	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/3/2024 6:56	10102	ALLE_T2	1	1	0	7.3	6.8	-0.5	0	0	0	0	0	0	0	0
6/3/2024 6:57	56801	BENV_T1	11	14	3	1.15	1.33	0.18	0	0	0	0	0	0	0	0
6/3/2024 6:57	56803	BENV_T1	1	2	1	3	0	-3	-0.11	-0.11	0	0	0	0	0	0
6/3/2024 6:58	52404	GRPA_T2	0	0	0	0	0	0	0.83	0.71	0	0	0	0	0	0
6/3/2024 7:08	55102	WERT_T2	0	0	0	0	0	0	-2.03	-1.93	2	4	2	1200	2400	1200
6/3/2024 7:08	55105	WERT_T1	0	0	0	0	0	0	-0.54	-0.49	1	1	0	900	900	0
6/3/2024 7:09	67703	WERN_T2	0	0	0	0	0	0	-0.19	-0.18	1	1	0	900	900	0
6/3/2024 7:11	46401	FLEM_T2	0	0	0	0	0	0	0.54	0.59	0	0	0	0	0	0
6/3/2024 7:14	24703	FLND_T2	0	0	0	0	0	0	-1.08	-1.06	1	1	0	1200	1200	0
6/3/2024 7:15	40101	HUNT_T2	0	0	0	0	0	0	-0.32	-0.24	0	0	0	0	0	0
6/3/2024 7:18	13704	SCHN_T2	0	0	0	0	0	0	-0.27	-0.26	0	0	0	0	0	0
6/3/2024 7:19	40301	TAMA_T3	1	1	0	0	0	0	0.77	0.71	2	2	0	1800	1800	0
6/3/2024 7:22	58003	WCAR_T1	1	1	0	1.3	1.1	-0.2	0.21	0.25	1	1	0	600	600	0
6/3/2024 7:22	58001	WCAR_T1	4	4	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
6/3/2024 7:22	67703	WERN_T2	0	0	0	0	0	0	-0.38	-0.35	2	2	0	1800	1800	0
6/3/2024 7:22	14601	SWHI_T1	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
6/3/2024 7:23	29401	BELT_T1	0	52	52	0	0.23	0.23	0	0	0	0	0	0	0	0
6/3/2024 7:23	29402	BELT_T1	1	1	0	7.9	8.6	0.7	0	0	0	0	0	0	0	0
6/3/2024 7:24	58001	WCAR_T1	4	4	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
6/3/2024 7:24	29402	BELT_T1	1	1	0	7.9	8.6	0.7	0	0	0	0	0	0	0	0
6/3/2024 7:24	58003	WCAR_T1	1	1	0	1.3	1.1	-0.2	0.25	0.26	1	1	0	600	600	0
6/3/2024 7:24	15703	TANN_T2	1	1	0	4.8	4.7	-0.1	0	0	0	0	0	0	0	0
6/3/2024 7:24	15702	TANN_T2	0	10	10	0	0.11	0.11	-0.42	-0.39	0	0	0	0	0	0
6/3/2024 7:24	29401	BELT_T1	0	52	52	0	0.23	0.23	0	0	2	2	0	1800	1800	0
6/3/2024 7:24	56802	BENV_T2	1	1	0	0.4	0.6	0.2	-1.41	-1.33	0	0	0	0	0	0
6/3/2024 7:24	14603	SWHI_T1	0	0	0	0	0	0	-1.01	-0.93	1	1	0	600	600	0
6/3/2024 7:25	67703	WERN_T2	0	0	0	0	0	0	-0.18	-0.15	1	1	0	900	900	0
6/3/2024 7:25	45501	DERR_T2	1	1	0	0.2	0.1	-0.1	0.95	0.97	2	2	0	1800	1800	0
6/3/2024 7:25	56802	BENV_T2	1	1	0	0.4	0.6	0.2	-1.41	-1.33	0	0	0	0	0	0
6/3/2024 7:25	14601	SWHI_T1	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
6/3/2024 7:26	17802	GILB_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
6/3/2024 7:27	54505	ENOL_T2	1	0	-1	0.3	0	-0.3	-1.31	-1.28	1	1	0	600	600	0
6/3/2024 7:27	54502	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/3/2024 7:27	56802	BENV_T2	1	1	0	0.4	0.6	0.2	-2.81	-2.66	0	0	0	0	0	0
6/3/2024 7:29	54502	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/3/2024 7:29	54505	ENOL_T2	1	0	-1	0.3	0	-0.3	-1.31	-1.28	1	1	0	600	600	0
6/3/2024 7:30	13502	MCMI_T1	4	3	-1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
6/3/2024 7:30	17802	GILB_T1	0	1	1	0	0.1	0.1	0.14	0.15	0	0	0	0	0	0
6/3/2024 7:30	13501	MCMI_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
6/3/2024 7:30	64203	KINZ_T1	0	0	0	0	0	0	0.98	1.02	2	2	0	900	900	0
6/3/2024 7:30	64204	KINZ_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
6/3/2024 7:30	64202	KINZ_T1	3	2	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/3/2024 7:37	15702	TANN_T2	3	8	5	0.13	0.1	-0.03	-0.42	-0.39	0	0	0	0	0	0
6/3/2024 7:37	15703	TANN_T2	1	1	0	4.7	4.8	0.1	0	0	0	0	0	0	0	0
6/3/2024 7:38	46801	HEPB_T2	2	2	0	0.4	0.7	0.3	0.72	0.73	0	0	0	0	0	0
6/3/2024 7:38	29402	BELT_T1	1	1	0	7.8	8.6	0.8	0	0	0	0	0	0	0	0
6/3/2024 7:38	29401	BELT_T1	0	67	67	0	0.28	0.28	0	0	1	1	0	900	900	0
6/3/2024 7:40	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/3/2024 7:41	50105	HARR_T3	7	6	-1	5.67	5.45	-0.22	0	0	0	0	0	0	0	0
6/3/2024 7:41	50103	HARR_T3	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
6/3/2024 7:41	50201	HARR_T3	0	1	1	0	0.3	0.3	-0.72	-0.72	1	1	0	1200	1200	0
6/3/2024 7:42	46801	HEPB_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/3/2024 7:42	46803	HEPB_T2	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
6/3/2024 7:43	50105	HARR_T3	7	6	-1	5.67	5.45	-0.22	0	0	0	0	0	0	0	0
6/3/2024 7:43	50103	HARR_T3	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
6/3/2024 7:43	50201	HARR_T3	0	1	1	0	0.3	0.3	-0.72	-0.72	1	1	0	1200	1200	0
6/3/2024 7:49	42201	SHEN_T2	0	0	0	0	0	0	0.07	0.09	1	1	0	600	600	0
6/3/2024 7:50	42201	SHEN_T2	0	0	0	0	0	0	0.07	0.09	1	1	0	600	600	0
6/3/2024 7:51	67703	WERN_T2	0	0	0	0	0	0	-0.15	-0.07	1	1	0	900	900	0
6/3/2024 7:52	67106	SPRI_T2	0	0	0	0	0	0	-2.3	-2.29	2	2	0	1800	1800	0
6/3/2024 7:52	20403	ASHF_T2	0	2	2	0	0.1	0.1	1.4	1.45	0	0	0	0	0	0
6/3/2024 7:52	20401	ASHF_T2	2	5	3	0.25	0.28	0.03	-0.21	-0.08	0	0	0	0	0	0
6/3/2024 7:53	67106	SPRI_T2	0	0	0	0	0	0	-1.15	-1.12	1	1	0	900	900	0
6/3/2024 7:53	29401	BELT_T1	52	66	14	0.23	0.28	0.05	0	0	1	1	0	900	900	0
6/3/2024 7:53	67702	WERN_T2	0	0	0	0	0	0	0.01	0.11	0	0	0	0	0	0
6/3/2024 7:53	29402	BELT_T1	1	1	0	8.6	8.5	-0.1	0	0	0	0	0	0	0	0
6/3/2024 7:53	10705	CATA_T2	0	0	0	0	0	0	-0.81	-0.81	1	1	0	900	900	0
6/3/2024 7:54	56803	BENV_T1	0	1	1	0	0	0	-0.09	-0.1	0	0	0	0	0	0
6/3/2024 7:54	67703	WERN_T2	0	0	0	0	0	0	-0.14	-0.18	2	2	0	1800	1800	0
6/3/2024 7:54	56801	BENV_T1	13	17	4	0.61	0.76	0.15	0	0	0	0	0	0	0	0
6/3/2024 7:55	56803	BENV_T1	0	1	1	0	0	0	-0.18	-0.2	0	0	0	0	0	0
6/3/2024 7:55	56801	BENV_T1	13	17	4	0.61	0.76	0.15	0	0	0	0	0	0	0	0
6/3/2024 7:56	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/3/2024 7:57	45501	DERR_T2	0	1	1	0	0.2	0.2	0.97	0.84	2	2	0	1800	1800	0
6/3/2024 8:00	52404	GRPA_T2	0	0	0	0	0	0	0.66	0.39	0	0	0	0	0	0
6/3/2024 8:00	52402	GRPA_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
6/3/2024 8:02	66902	SHIL_T2	0	0	0	0	0	0	-1.61	-1.58	0	0	0	0	0	0
6/3/2024 8:03	58402	MORO_T1	0	1	1	0	0	0	-0.89	-0.91	3	3	0	2400	2400	0
6/3/2024 8:03	17002	RIRO_T2	2	81	79	0.7	0.22	-0.48	0.67	0.72	0	0	0	0	0	0
6/3/2024 8:04	66902	SHIL_T2	0	0	0	0	0	0	-3.22	-3.17	0	0	0	0	0	0
6/3/2024 8:05	58006	WCAR_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
6/3/2024 8:06	55003	NEWP_T2	9	9	0	0.34	0.33	-0.01	-0.64	0.04	1	0	-1	600	0	-600
6/3/2024 8:09	58006	WCAR_T2	0	0	0	0	0	0	0.35	0.5	0	0	0	0	0	0
6/3/2024 8:09	67702	WERN_T2	0	0	0	0	0	0	0.21	-0.02	0	0	0	0	0	0
6/3/2024 8:10	54505	ENOL_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
6/3/2024 8:10	54503	ENOL_T2	0	0	0	0	0	0	-1.82	-1.7	1	1	0	600	600	0
6/3/2024 8:11	54505	ENOL_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
6/3/2024 8:11	54503	ENOL_T2	0	0	0	0	0	0	-3.63	-3.39	2	2	0	1200	1200	0
6/3/2024 8:12	54505	ENOL_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
6/3/2024 8:12	54503	ENOL_T2	0	0	0	0	0	0	-3.63	-3.39	2	2	0	1200	1200	0
6/3/2024 8:13	46801	HEPB_T2	0	0	0	0	0	0	0.3	0.35	0	0	0	0	0	0
6/3/2024 8:13	46801	HEPB_T2	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/3/2024 8:14	23403	HONE_T1	0	0	0	0	0	0	-0.62	-0.67	0	0	0	0	0	0
6/3/2024 8:14	62607	ENGL_T1	0	0	0	0	0	0	-0.93	-0.89	1	1	0	300	300	0
6/3/2024 8:15	64802	MONE_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
6/3/2024 8:15	42001	MNVL_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/3/2024 8:15	42002	MNVL_T2	1	1	0	3.8	4.4	0.6	0	0	0	0	0	0	0	0
6/3/2024 8:17	46302	ROHR_T1	4	4	0	1.68	1.98	0.3	0.15	0.14	0	0	0	0	0	0
6/3/2024 8:18	46302	ROHR_T1	4	4	0	1.68	1.98	0.3	0.15	0.14	0	0	0	0	0	0
6/3/2024 8:23	67204	TEHI_T2	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
6/3/2024 8:23	20403	ASHF_T2	0	2	2	0	0	0	1.49	1.45	0	0	0	0	0	0
6/3/2024 8:23	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 8:24	67204	TEHI_T2	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
6/3/2024 8:24	59101	WALK_T2	0	0	0	0	0	0	0.54	0.57	0	0	0	0	0	0
6/3/2024 8:24	67702	WERN_T2	0	0	0	0	0	0	-0.01	0.05	0	0	0	0	0	0
6/3/2024 8:25	67703	WERN_T2	0	0	0	0	0	0	-0.03	-0.04	1	1	0	900	900	0
6/3/2024 8:25	67702	WERN_T2	0	0	0	0	0	0	-0.01	0.05	0	0	0	0	0	0
6/3/2024 8:26	56802	BENV_T2	1	1	0	1.2	1.1	-0.1	-0.58	-0.6	0	0	0	0	0	0
6/3/2024 8:26	52402	GRPA_T2	3	0	-3	0.27	0	-0.27	-0.87	-0.83	0	0	0	0	0	0
6/3/2024 8:28	52402	GRPA_T2	3	0	-3	0.27	0	-0.27	-0.87	-0.83	0	0	0	0	0	0
6/3/2024 8:28	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 8:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 8:30	64802	MONE_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
6/3/2024 8:33	58402	MORO_T1	1	0	-1	0.3	0	-0.3	-0.86	-0.88	3	3	0	2400	2400	0
6/3/2024 8:33	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 8:33	50701	SMEC_T1	0	1	1	0	0.2	0.2	-0.63	-0.57	1	1	0	1200	1200	0
6/3/2024 8:34	17002	RIRO_T2	54	62	8	0.19	0.21	0.02	0.79	0.85	0	0	0	0	0	0
6/3/2024 8:37	45402	WBLO_T2	1	1	0	1.7	1.5	-0.2	-0.54	-0.52	0	0	0	0	0	0
6/3/2024 8:37	50701	SMEC_T1	0	1	1	0	0.2	0.2	-0.63	-0.57	1	1	0	1200	1200	0
6/3/2024 8:38	56802	BENV_T2	1	1	0	1.1	1.1	0	-0.6	-0.58	0	0	0	0	0	0
6/3/2024 8:38	29401	BELT_T1	33	16	-17	0.18	0.13	-0.05	0	0	3	3	0	2700	2700	0
6/3/2024 8:38	29402	BELT_T1	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
6/3/2024 8:39	20403	ASHF_T2	2	0	-2	0.15	0	-0.15	1.45	1.45	0	0	0	0	0	0
6/3/2024 8:39	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/3/2024 8:39	56802	BENV_T2	1	1	0	1.1	1.1	0	-0.6	-0.58	0	0	0	0	0	0
6/3/2024 8:40	56802	BENV_T2	1	1	0	1.1	1.1	0	-0.6	-0.58	0	0	0	0	0	0
6/3/2024 8:46	55002	NEWP_T1	6	5	-1	0.45	0.32	-0.13	-0.2	-0.17	0	0	0	0	0	0
6/3/2024 8:47	41902	REED_T1	0	0	0	0	0	0	1.16	1.21	0	0	0	0	0	0
6/3/2024 8:47	55002	NEWP_T1	6	5	-1	0.45	0.32	-0.13	-0.2	-0.17	0	0	0	0	0	0
6/3/2024 8:48	58102	NEKI_T1	2	2	0	0.95	0.75	-0.2	-0.62	-0.58	1	1	0	1200	1200	0
6/3/2024 8:48	58101	NEKI_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/3/2024 8:49	55002	NEWP_T1	6	5	-1	0.45	0.32	-0.13	-0.41	-0.33	0	0	0	0	0	0
6/3/2024 8:49	67204	TEHI_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
6/3/2024 8:49	41902	REED_T1	0	0	0	0	0	0	1.16	1.21	0	0	0	0	0	0
6/3/2024 8:50	67204	TEHI_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
6/3/2024 8:50	14404	SSLA_T1	1	0	-1	6	5.8	-0.2	0.07	0.07	0	0	0	0	0	0
6/3/2024 8:50	14403	SSLA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/3/2024 8:51	15704	TANN_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
6/3/2024 8:51	15701	TANN_T1	1	2	1	5	2.55	-2.45	0	0	0	0	0	0	0	0
6/3/2024 8:51	58006	WCAR_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
6/3/2024 8:52	56803	BENV_T1	1	1	0	2.3	0	-2.3	0	0	0	0	0	0	0	0
6/3/2024 8:52	14404	SSLA_T1	1	1	0	6	5.8	-0.2	0.07	0.07	0	0	0	0	0	0
6/3/2024 8:52	56801	BENV_T1	7	6	-1	0.59	0.32	-0.27	-0.32	-0.01	2	2	0	1200	1200	0
6/3/2024 8:52	14403	SSLA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/3/2024 8:53	56803	BENV_T1	1	1	0	2.3	0	-2.3	0	0	0	0	0	0	0	0
6/3/2024 8:53	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.37	-0.34	0	0	0	0	0	0
6/3/2024 8:53	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
6/3/2024 8:53	56801	BENV_T1	7	6	-1	0.59	0.32	-0.27	-0.02	0.15	4	4	0	2400	2400	0
6/3/2024 8:54	56801	BENV_T1	7	6	-1	0.59	0.32	-0.27	-0.02	0.15	4	4	0	2400	2400	0
6/3/2024 8:54	56803	BENV_T1	1	1	0	2.3	0	-2.3	0	0	0	0	0	0	0	0
6/3/2024 8:54	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
6/3/2024 8:54	29401	BELT_T1	15	15	0	0.13	0.13	0	0	0	0	0	0	0	0	0
6/3/2024 8:55	56801	BENV_T1	7	6	-1	0.59	0.32	-0.27	-0.01	0.04	1	1	0	600	600	0
6/3/2024 8:55	56803	BENV_T1	1	1	0	2.3	0	-2.3	0	0	0	0	0	0	0	0
6/3/2024 8:56	56803	BENV_T1	1	1	0	2.3	0	-2.3	0	0	0	0	0	0	0	0
6/3/2024 8:56	56801	BENV_T1	7	6	-1	0.59	0.32	-0.27	-0.02	0.11	3	3	0	1800	1800	0
6/3/2024 8:57	56801	BENV_T1	7	6	-1	0.59	0.32	-0.27	-0.01	0.08	2	2	0	1200	1200	0
6/3/2024 8:57	56803	BENV_T1	1	1	0	2.3	0	-2.3	0	0	0	0	0	0	0	0
6/3/2024 8:58	56803	BENV_T1	1	1	0	2.3	0	-2.3	0	0	0	0	0	0	0	0
6/3/2024 8:58	56801	BENV_T1	7	6	-1	0.59	0.32	-0.27	-0.01	0.04	1	1	0	600	600	0
6/3/2024 9:05	67204	TEHI_T2	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
6/3/2024 9:05	64101	REFR_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
6/3/2024 9:06	67204	TEHI_T2	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/3/2024 9:09	10805	CHHI_T2	2	3	1	5.45	4.75	-0.7	-0.28	-0.8	1	1	0	600	600	0
6/3/2024 9:10	10801	CHHI_T1	0	2	2	0	0.45	0.45	-0.4	-0.87	1	2	1	900	1500	600
6/3/2024 9:11	56802	BENV_T2	1	1	0	0.8	1	0.2	-0.57	-0.54	0	0	0	0	0	0
6/3/2024 9:12	56802	BENV_T2	1	1	0	0.8	1	0.2	-0.57	-0.54	0	0	0	0	0	0
6/3/2024 9:15	45802	HEGI_T2	0	1	1	0	0	0	0.88	1.18	2	2	0	1800	1800	0
6/3/2024 9:19	21203	ECAR_T1	0	0	0	0	0	0	-0.16	-0.1	0	0	0	0	0	0
6/3/2024 9:21	66701	STRA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/3/2024 9:21	43301	WATS_T2	0	1	1	0	0.3	0.3	0	0	1	1	0	900	900	0
6/3/2024 9:21	66703	STRA_T1	0	0	0	0	0	0	0.03	0.18	0	0	0	0	0	0
6/3/2024 9:22	66701	STRA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/3/2024 9:22	26603	BROO_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
6/3/2024 9:22	66703	STRA_T1	0	0	0	0	0	0	0.03	0.18	0	0	0	0	0	0
6/3/2024 9:23	67505	WEWI_T1	0	0	0	0	0	0	0.24	0.24	1	1	0	900	900	0
6/3/2024 9:24	67503	WEWI_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
6/3/2024 9:24	67605	WARW_T1	14	10	-4	0.4	0.34	-0.06	-0.9	-0.87	0	0	0	0	0	0
6/3/2024 9:24	67502	WEWI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/3/2024 9:24	26603	BROO_T1	0	0	0	0	0	0	0.54	0.57	0	0	0	0	0	0
6/3/2024 9:24	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 9:25	43301	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/3/2024 9:25	43304	WATS_T2	0	0	0	0	0	0	0	0	1	0	-1	600	0	-600
6/3/2024 9:25	67505	WEWI_T1	0	0	0	0	0	0	0.24	0.24	1	1	0	900	900	0
6/3/2024 9:28	23202	HIRU_T2	0	1	1	0	0.2	0.2	0.1	0.1	0	0	0	0	0	0
6/3/2024 9:28	23201	HIHU_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/3/2024 9:31	10805	CHHI_T2	2	2	0	4.75	4.75	0	-0.8	-0.65	1	1	0	600	600	0
6/3/2024 9:32	46803	HEPB_T2	0	2	2	0	0.35	0.35	0.67	0.71	0	0	0	0	0	0
6/3/2024 9:32	46801	HEPB_T2	2	3	1	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
6/3/2024 9:34	64101	REFR_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
6/3/2024 9:35	42201	SHEN_T2	0	0	0	0	0	0	0.15	0.19	1	1	0	600	600	0
6/3/2024 9:35	64101	REFR_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
6/3/2024 9:35	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/3/2024 9:35	66502	SMAN_T2	0	1	1	0	0.2	0.2	0.44	0.57	0	0	0	0	0	0
6/3/2024 9:36	64101	REFR_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
6/3/2024 9:36	67502	WEWI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/3/2024 9:36	67503	WEWI_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
6/3/2024 9:37	67502	WEWI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/3/2024 9:37	67503	WEWI_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
6/3/2024 9:37	66502	SMAN_T2	0	1	1	0	0.2	0.2	0.44	0.57	0	0	0	0	0	0
6/3/2024 9:37	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/3/2024 9:38	64101	REFR_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
6/3/2024 9:41	46504	LOHA_T1	2	2	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
6/3/2024 9:41	46506	LOHA_T1	1	2	1	0.3	0.4	0.1	-0.34	-0.29	0	0	0	0	0	0
6/3/2024 9:45	46504	LOHA_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
6/3/2024 9:45	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/3/2024 9:45	46506	LOHA_T1	1	1	0	0.3	0.4	0.1	-0.34	-0.29	0	0	0	0	0	0
6/3/2024 9:49	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 9:50	43201	MVIL_T2	1	0	-1	0.9	0	-0.9	-0.32	-0.31	0	0	0	0	0	0
6/3/2024 9:51	45402	WBLO_T2	3	2	-1	0.5	0.95	0.45	-0.42	-0.41	0	0	0	0	0	0
6/3/2024 9:51	46301	ROHR_T1	0	1	1	0	0.2	0.2	0.27	0.23	0	0	0	0	0	0
6/3/2024 9:51	67502	WEWI_T2	1	2	1	0.3	0.65	0.35	0	0	0	0	0	0	0	0
6/3/2024 9:51	67503	WEWI_T2	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
6/3/2024 9:51	46302	ROHR_T1	4	4	0	1.78	1.83	0.05	0	0	0	0	0	0	0	0
6/3/2024 9:52	43301	WATS_T2	1	2	1	0.3	0.7	0.4	0	0	1	1	0	900	900	0
6/3/2024 9:52	60801	BUCK_T1	0	0	0	0	0	0	-0.43	-0.41	1	1	0	600	600	0
6/3/2024 9:52	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 9:54	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/3/2024 9:55	60801	BUCK_T1	0	0	0	0	0	0	-0.41	-0.36	1	1	0	600	600	0
6/3/2024 9:55	55101	WERT_T1	0	0	0	0	0	0	-1.87	-1.99	4	4	0	3300	3300	0
6/3/2024 9:56	10801	CHHI_T1	4	0	-4	0.4	0	-0.4	-0.82	-0.99	2	2	0	1500	1500	0
6/3/2024 9:56	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/3/2024 9:58	10805	CHHI_T2	2	2	0	4.75	4.95	0.2	-0.74	-0.56	1	1	0	600	600	0
6/3/2024 10:00	14603	SWHI_T1	0	0	0	0	0	0	-0.78	-0.8	1	1	0	600	600	0
6/3/2024 10:00	13503	MCMI_T2	1	0	-1	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
6/3/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
6/3/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-0.38	-0.24	1	1	0	900	900	0
6/3/2024 10:00	40101	HUNT_T2	7	30	23	0.34	0.35	0.01	-0.02	0.02	0	0	0	0	0	0
6/3/2024 10:00	56802	BENV_T2	1	1	0	0.8	0.7	-0.1	-0.53	-0.5	0	0	0	0	0	0
6/3/2024 10:00	48302	ORWI_T2	2	2	0	0.8	0.65	-0.15	0.21	0.22	0	0	0	0	0	0
6/3/2024 10:00	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 10:00	66502	SMAN_T2	0	0	0	0	0	0	0.5	0.39	0	0	0	0	0	0
6/3/2024 10:00	43301	WATS_T2	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
6/3/2024 10:00	17002	RIRO_T2	10	48	38	0.14	0.21	0.07	0.82	0.73	0	0	0	0	0	0
6/3/2024 10:00	55101	WERT_T1	0	0	0	0	0	0	-1.87	-1.99	4	4	0	3300	3300	0
6/3/2024 10:00	45802	HEGI_T2	0	1	1	0	0	0	0.46	0.51	2	2	0	1200	1200	0
6/3/2024 10:00	67502	WEWI_T2	1	2	1	0.4	0.7	0.3	0.07	0.16	0	0	0	0	0	0
6/3/2024 10:00	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	0.05	-0.01	0	0	0	0	0	0
6/3/2024 10:00	40505	CRES_T1	3	3	0	3.87	4.1	0.23	0.66	0.74	0	0	0	0	0	0
6/3/2024 10:03	67605	WARW_T1	1	1	0	1.3	0.1	-1.2	-0.91	-0.87	0	0	0	0	0	0
6/3/2024 10:05	64101	REFR_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
6/3/2024 10:07	61102	BERK_T5	0	0	0	0	0	0	-0.57	-0.46	2	2	0	1200	1200	0
6/3/2024 10:07	43301	WATS_T2	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
6/3/2024 10:07	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 10:08	10805	CHHI_T2	2	2	0	4.95	5	0.05	-0.56	-0.56	1	1	0	600	600	0
6/3/2024 10:08	56801	BENV_T1	15	7	-8	0.96	0.66	-0.3	-0.48	-0.54	1	1	0	600	600	0
6/3/2024 10:08	60801	BUCK_T1	0	0	0	0	0	0	0.36	0.3	1	1	0	600	600	0
6/3/2024 10:08	20401	ASHF_T2	1	3	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/3/2024 10:08	20403	ASHF_T2	0	4	4	0	0.35	0.35	1.55	1.62	0	0	0	0	0	0
6/3/2024 10:08	67502	WEWI_T2	1	2	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/3/2024 10:08	67503	WEWI_T2	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
6/3/2024 10:08	43402	BENT_T1	25	0	-25	0.29	0	-0.29	-1.19	-1.21	2	2	0	1800	1800	0
6/3/2024 10:09	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 10:09	26603	BROO_T1	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
6/3/2024 10:09	46206	DANV_T2	6	15	9	0.85	0.73	-0.12	7.01	6.96	2	2	0	2400	2400	0
6/3/2024 10:09	46203	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/3/2024 10:09	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 10:10	56802	BENV_T2	1	1	0	0.8	0.7	-0.1	-0.5	-0.51	0	0	0	0	0	0
6/3/2024 10:10	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 10:11	26603	BROO_T1	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
6/3/2024 10:11	45501	DERR_T2	1	1	0	0.6	0.7	0.1	0.77	0.85	2	2	0	1800	1800	0
6/3/2024 10:11	56802	BENV_T2	1	1	0	0.8	0.7	-0.1	-0.5	-0.51	0	0	0	0	0	0
6/3/2024 10:11	56803	BENV_T1	0	0	0	0	0	0	-0.03	-0.02	1	1	0	600	600	0
6/3/2024 10:11	45502	DERR_T2	1	0	-1	0.4	0	-0.4	0.11	0.39	0	0	0	0	0	0
6/3/2024 10:11	60801	BUCK_T1	0	0	0	0	0	0	-0.36	-0.3	1	1	0	600	600	0
6/3/2024 10:11	56801	BENV_T1	15	7	-8	0.96	0.66	-0.3	0	0	0	0	0	0	0	0
6/3/2024 10:11	43402	BENT_T1	25	0	-25	0.29	0	-0.29	-0.6	-0.6	1	1	0	900	900	0
6/3/2024 10:12	22903	HARW_T1	0	7	7	0	0	0	0.39	0.46	0	0	0	0	0	0
6/3/2024 10:12	10805	CHHI_T2	2	2	0	4.95	5	0.05	-0.56	-0.56	1	1	0	600	600	0
6/3/2024 10:13	41801	GOCI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/3/2024 10:13	45802	HEGI_T2	0	1	1	0	0	0	0.51	0.44	2	2	0	1200	1200	0
6/3/2024 10:13	45502	DERR_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/3/2024 10:13	20603	GRWO_T2	2	0	-2	3.85	0	-3.85	-0.47	-0.5	1	1	0	900	900	0
6/3/2024 10:13	45501	DERR_T2	1	1	0	0.6	0.7	0.1	0.77	0.85	2	2	0	1800	1800	0
6/3/2024 10:14	41801	GOCI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/3/2024 10:15	13501	MCMI_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
6/3/2024 10:15	63501	HEID_TBK1-2	0	1	1	0	0.4	0.4	0.38	0.39	1	1	0	900	900	0
6/3/2024 10:15	20601	GRWO_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
6/3/2024 10:18	46302	ROHR_T1	4	4	0	1.53	1.78	0.25	0.2	0.22	0	0	0	0	0	0
6/3/2024 10:19	46302	ROHR_T1	4	4	0	1.53	1.78	0.25	0.2	0.22	0	0	0	0	0	0
6/3/2024 10:19	67204	TEHI_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
6/3/2024 10:20	46206	DANV_T2	11	13	2	0.73	1.08	0.35	3.51	3.48	1	1	0	1200	1200	0
6/3/2024 10:20	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 10:20	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
6/3/2024 10:20	15702	TANN_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
6/3/2024 10:22	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
6/3/2024 10:22	15702	TANN_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
6/3/2024 10:23	67204	TEHI_T2	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
6/3/2024 10:24	24902	WHHA_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
6/3/2024 10:25	41502	FAIR_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
6/3/2024 10:25	29402	BELT_T1	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
6/3/2024 10:25	29401	BELT_T1	6	10	4	0.12	0.12	0	0	0	1	1	0	900	900	0
6/3/2024 10:26	29402	BELT_T1	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
6/3/2024 10:26	29401	BELT_T1	6	10	4	0.12	0.12	0	0	0	2	2	0	1800	1800	0
6/3/2024 10:28	29401	BELT_T1	6	10	4	0.12	0.12	0	0	0	4	4	0	3600	3600	0
6/3/2024 10:28	29402	BELT_T1	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
6/3/2024 10:28	41502	FAIR_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
6/3/2024 10:29	29401	BELT_T1	6	10	4	0.12	0.12	0	0	0	0	0	0	0	0	0
6/3/2024 10:29	29402	BELT_T1	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
6/3/2024 10:30	23202	HIRU_T2	0	1	1	0	0.1	0.1	0.1	0.11	0	0	0	0	0	0
6/3/2024 10:32	41902	REED_T1	0	0	0	0	0	0	1.15	1.19	0	0	0	0	0	0
6/3/2024 10:32	28805	LAKE_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
6/3/2024 10:33	13501	MCMI_T1	0	0	0	0	0	0	0.11	0.16	0	0	0	0	0	0
6/3/2024 10:34	66504	SMAN_T2	0	0	0	0	0	0	-2.26	-2.11	2	2	0	2400	2400	0
6/3/2024 10:34	65004	NEFF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/3/2024 10:34	13501	MCMI_T1	0	0	0	0	0	0	0.11	0.16	0	0	0	0	0	0
6/3/2024 10:34	65001	NEFF_T2	0	0	0	0	0	0	0.2	0.5	1	1	0	1200	1200	0
6/3/2024 10:34	41902	REED_T1	0	0	0	0	0	0	1.15	1.19	0	0	0	0	0	0
6/3/2024 10:36	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 10:37	56803	BENV_T1	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
6/3/2024 10:37	66503	SMAN_T2	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
6/3/2024 10:37	48302	ORWI_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
6/3/2024 10:37	44301	BEAV_T2	0	0	0	0	0	0	0.26	0.23	2	2	0	1500	1500	0
6/3/2024 10:37	56801	BENV_T1	7	12	5	0.43	0.83	0.4	-0.54	-0.51	1	1	0	600	600	0
6/3/2024 10:38	45902	AUBU_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/3/2024 10:38	59101	WALK_T2	0	0	0	0	0	0	1.94	1.49	0	0	0	0	0	0
6/3/2024 10:38	56803	BENV_T1	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
6/3/2024 10:38	56801	BENV_T1	7	12	5	0.43	0.83	0.4	-2.57	-2.52	5	5	0	3000	3000	0
6/3/2024 10:38	44301	BEAV_T2	0	0	0	0	0	0	0.23	0.22	2	2	0	1500	1500	0
6/3/2024 10:38	29401	BELT_T1	10	6	-4	0.11	0.18	0.07	0	0	1	1	0	900	900	0
6/3/2024 10:38	29402	BELT_T1	1	1	0	8.1	8.2	0.1	0	0	0	0	0	0	0	0
6/3/2024 10:38	66502	SMAN_T2	0	0	0	0	0	0	0.36	0.5	0	0	0	0	0	0
6/3/2024 10:38	10801	CHHI_T1	0	0	0	0	0	0	-0.84	-0.92	2	2	0	1500	1500	0
6/3/2024 10:38	40201	BEGA_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
6/3/2024 10:38	45901	AUBU_T1	0	0	0	0	0	0	1.1	1.05	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/3/2024 10:38	13905	SEID_T1	0	0	0	0	0	0	-0.79	-0.76	1	1	0	1200	1200	0
6/3/2024 10:38	66504	SMAN_T2	0	0	0	0	0	0	-1.05	-0.91	1	1	0	1200	1200	0
6/3/2024 10:39	24101	EHAZ_T1	22	22	0	2.03	0.68	-1.35	0	0	0	0	0	0	0	0
6/3/2024 10:39	24105	EHAZ_T1	4	4	0	5.55	5.63	0.08	0	0	0	0	0	0	0	0
6/3/2024 10:39	44301	BEAV_T2	0	0	0	0	0	0	0.23	0.22	2	2	0	1500	1500	0
6/3/2024 10:39	67603	WARW_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
6/3/2024 10:39	56803	BENV_T1	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
6/3/2024 10:39	40201	BEGA_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
6/3/2024 10:39	24104	EHAZ_T1	0	1	1	0	0.1	0.1	-0.73	-0.7	1	1	0	1200	1200	0
6/3/2024 10:39	56801	BENV_T1	7	12	5	0.43	0.83	0.4	-2.57	-2.52	5	5	0	3000	3000	0
6/3/2024 10:39	67605	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/3/2024 10:40	56801	BENV_T1	7	12	5	0.43	0.83	0.4	-0.51	-0.5	1	1	0	600	600	0
6/3/2024 10:40	56802	BENV_T2	1	3	2	0.7	0.37	-0.33	-0.48	-0.46	0	0	0	0	0	0
6/3/2024 10:40	56803	BENV_T1	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
6/3/2024 10:40	45502	DERR_T2	0	5	5	0	0.17	0.17	0	0	0	0	0	0	0	0
6/3/2024 10:40	45501	DERR_T2	1	1	0	0.8	1	0.2	0.86	0.83	2	2	0	1800	1800	0
6/3/2024 10:41	46206	DANV_T2	13	6	-7	0.68	1.23	0.55	10.34	10.14	3	3	0	3600	3600	0
6/3/2024 10:41	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/3/2024 10:41	56803	BENV_T1	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
6/3/2024 10:41	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.88	-0.74	2	2	0	1200	1200	0
6/3/2024 10:41	56802	BENV_T2	1	3	2	0.7	0.37	-0.33	-0.96	-0.92	0	0	0	0	0	0
6/3/2024 10:41	52403	GRPA_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/3/2024 10:41	45502	DERR_T2	0	5	5	0	0.17	0.17	0	0	0	0	0	0	0	0
6/3/2024 10:41	52402	GRPA_T2	0	0	0	0	0	0	-0.75	-0.72	0	0	0	0	0	0
6/3/2024 10:41	56801	BENV_T1	7	12	5	0.43	0.83	0.4	-1.54	-1.51	3	3	0	1800	1800	0
6/3/2024 10:41	40201	BEGA_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
6/3/2024 10:41	45501	DERR_T2	1	1	0	0.8	1	0.2	0.86	0.83	2	2	0	1800	1800	0
6/3/2024 10:42	56801	BENV_T1	7	12	5	0.43	0.83	0.4	-1.54	-1.51	3	3	0	1800	1800	0
6/3/2024 10:42	52403	GRPA_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/3/2024 10:42	56802	BENV_T2	1	3	2	0.7	0.37	-0.33	-0.48	-0.46	0	0	0	0	0	0
6/3/2024 10:42	56803	BENV_T1	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
6/3/2024 10:42	52402	GRPA_T2	0	0	0	0	0	0	-0.75	-0.72	0	0	0	0	0	0
6/3/2024 10:43	56803	BENV_T1	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
6/3/2024 10:43	45501	DERR_T2	1	1	0	0.8	1	0.2	0.86	0.83	2	2	0	1800	1800	0
6/3/2024 10:43	45502	DERR_T2	0	5	5	0	0.17	0.17	0	0	0	0	0	0	0	0
6/3/2024 10:43	56801	BENV_T1	7	12	5	0.43	0.83	0.4	-1.54	-1.51	3	3	0	1800	1800	0
6/3/2024 10:44	56802	BENV_T2	1	3	2	0.7	0.37	-0.33	-0.48	-0.46	0	0	0	0	0	0
6/3/2024 10:48	55002	NEWP_T1	4	5	1	0.6	0.52	-0.08	-0.15	-0.15	0	0	0	0	0	0
6/3/2024 10:48	55002	NEWP_T1	4	5	1	0.6	0.52	-0.08	-0.15	-0.15	0	0	0	0	0	0
6/3/2024 10:48	64101	REFR_T1	0	0	0	0	0	0	0.17	0.21	0	0	0	0	0	0
6/3/2024 10:49	64101	REFR_T1	0	0	0	0	0	0	0.17	0.21	0	0	0	0	0	0
6/3/2024 10:49	55002	NEWP_T1	4	5	1	0.6	0.52	-0.08	-0.31	-0.3	0	0	0	0	0	0
6/3/2024 10:49	66703	STRA_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
6/3/2024 10:49	66701	STRA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/3/2024 10:50	64101	REFR_T1	0	0	0	0	0	0	0.35	0.43	0	0	0	0	0	0
6/3/2024 10:51	66702	STRA_T1	0	0	0	0	0	0	-0.03	-0.02	2	2	0	1500	1500	0
6/3/2024 10:51	67502	WEWI_T2	1	1	0	0.7	0.5	-0.2	0.18	-0.49	0	0	0	0	0	0
6/3/2024 10:51	64101	REFR_T1	0	0	0	0	0	0	0.35	0.43	0	0	0	0	0	0
6/3/2024 10:51	66701	STRA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/3/2024 10:52	64101	REFR_T1	0	0	0	0	0	0	0.17	0.21	0	0	0	0	0	0
6/3/2024 10:52	58003	WCAR_T1	1	1	0	0.6	0.6	0	1.12	1.16	0	0	0	0	0	0
6/3/2024 10:52	58001	WCAR_T1	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/3/2024 10:53	67502	WEWI_T2	1	1	0	0.7	0.5	-0.2	-0.49	-0.75	0	0	0	0	0	0
6/3/2024 10:53	45902	AUBU_T1	1	1	0	0.4	0.4	0	-0.37	-0.4	1	1	0	600	600	0
6/3/2024 10:53	67503	WEWI_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
6/3/2024 10:53	64101	REFR_T1	0	0	0	0	0	0	0.21	0.25	0	0	0	0	0	0
6/3/2024 10:54	15702	TANN_T2	0	0	0	0	0	0	-0.23	-0.18	0	0	0	0	0	0
6/3/2024 10:54	43304	WATS_T2	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
6/3/2024 10:54	67502	WEWI_T2	1	1	0	0.7	0.5	-0.2	-0.49	-0.75	0	1	1	0	900	900
6/3/2024 10:54	45902	AUBU_T1	1	1	0	0.4	0.4	0	-0.37	-0.4	1	1	0	600	600	0
6/3/2024 10:54	60803	BUCK_T1	0	0	0	0	0	0	-0.36	-0.33	1	1	0	600	600	0
6/3/2024 10:54	15703	TANN_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
6/3/2024 10:54	67503	WEWI_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
6/3/2024 10:54	43301	WATS_T2	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/3/2024 10:55	60803	BUCK_T1	0	0	0	0	0	0	-0.36	-0.33	1	1	0	600	600	0
6/3/2024 10:55	58001	WCAR_T1	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/3/2024 10:55	58003	WCAR_T1	1	1	0	0.6	0.6	0	1.16	1.13	0	0	0	0	0	0
6/3/2024 10:55	10801	OHHI_T1	0	6	6	0	0.7	0.7	-0.92	-1.53	2	3	1	1500	2100	600
6/3/2024 10:56	60803	BUCK_T1	0	0	0	0	0	0	-0.36	-0.33	1	1	0	600	600	0
6/3/2024 10:56	45902	AUBU_T1	1	1	0	0.4	0.4	0	-0.37	-0.4	1	1	0	600	600	0
6/3/2024 10:57	60803	BUCK_T1	0	0	0	0	0	0	-0.36	-0.33	1	1	0	600	600	0
6/3/2024 10:57	61803	EELI_T2	0	0	0	0	0	0	0.49	0.58	1	1	0	600	600	0
6/3/2024 10:57	63306	GREE_T1	0	0	0	0	0	0	-1.71	-1.7	1	1	0	900	900	0
6/3/2024 10:57	16102	BING_T2	0	0	0	0	0	0	0.34	0.34	1	1	0	1200	1200	0
6/3/2024 10:57	40101	HUNT_T2	13	36	23	0.38	0.47	0.09	0.02	0.04	0	0	0	0	0	0
6/3/2024 10:58	63306	GREE_T1	0	0	0	0	0	0	-1.71	-1.7	1	1	0	900	900	0
6/3/2024 10:58	62601	ENGL_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
6/3/2024 10:58	22903	HARW_T1	0	0	0	0	0	0	0.59	0.54	0	0	0	0	0	0
6/3/2024 10:58	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 11:00	17802	GILB_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
6/3/2024 11:01	23202	HIRU_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/3/2024 11:01	23203	HIRU_T2	0	0	0	0	0	0	0.15	0.07	0	0	0	0	0	0
6/3/2024 11:02	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 11:02	24204	PROV_T3	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
6/3/2024 11:02	24201	PROV_T3	1	1	0	6.8	6.9	0.1	-1.11	-1.04	1	1	0	1200	1200	0
6/3/2024 11:04	54001	SDLE_T1	3	2	-1	0.73	0.7	-0.03	0	0	1	0	-1	600	0	-600
6/3/2024 11:04	64101	REFR_T1	0	0	0	0	0	0	0.21	0.25	0	0	0	0	0	0
6/3/2024 11:05	23902	EFMO_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
6/3/2024 11:05	55101	WERT_T1	0	0	0	0	0	0	-1.89	-1.79	4	4	0	3300	3300	0
6/3/2024 11:05	54001	SDLE_T1	3	2	-1	0.73	0.7	-0.03	0	0	4	0	-4	2400	0	-2400
6/3/2024 11:06	67502	WEWI_T2	0	4	4	0	0.63	0.63	0	0	0	0	0	0	0	0
6/3/2024 11:06	67503	WEWI_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
6/3/2024 11:07	67502	WEWI_T2	0	4	4	0	0.63	0.63	0	0	0	0	0	0	0	0
6/3/2024 11:07	56803	BENV_T1	1	1	0	1.8	2.9	1.1	0	0	0	0	0	0	0	0
6/3/2024 11:07	67503	WEWI_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
6/3/2024 11:07	56801	BENV_T1	9	9	0	0.78	0.62	-0.16	-0.5	-0.3	1	1	0	600	600	0
6/3/2024 11:08	29402	BELT_T1	1	1	0	8.1	7.8	-0.3	0	0	0	0	0	0	0	0
6/3/2024 11:08	29401	BELT_T1	5	2	-3	0.2	0.2	0	0	0	0	0	0	0	0	0
6/3/2024 11:09	56801	BENV_T1	9	9	0	0.78	0.62	-0.16	-0.61	-0.71	2	2	0	1200	1200	0
6/3/2024 11:09	56803	BENV_T1	1	1	0	1.8	2.9	1.1	0	0	0	0	0	0	0	0
6/3/2024 11:09	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 11:09	10801	OHHI_T1	0	6	6	0	0.7	0.7	-3.06	-2.79	4	6	2	3000	4200	1200
6/3/2024 11:09	67402	WAKE_T2	0	0	0	0	0	0	0.72	0.78	1	1	0	600	600	0
6/3/2024 11:10	29402	BELT_T1	1	1	0	8.1	7.8	-0.3	0	0	0	0	0	0	0	0
6/3/2024 11:10	56803	BENV_T1	1	1	0	1.8	2.9	1.1	0	0	0	0	0	0	0	0
6/3/2024 11:10	56801	BENV_T1	9	9	0	0.78	0.62	-0.16	-0.3	-0.36	1	1	0	600	600	0
6/3/2024 11:10	60803	BUCK_T1	0	0	0	0	0	0	-0.33	-0.33	1	1	0	600	600	0
6/3/2024 11:10	29401	BELT_T1	5	2	-3	0.2	0.2	0	0	0	0	0	0	0	0	0
6/3/2024 11:11	53902	HALI_T2	2	1	-1	2.75	5.2	2.45	0	0	0	0	0	0	0	0
6/3/2024 11:11	53903	HALI_T2	3	5	2	0.93	0.82	-0.11	-0.03	-0.03	0	0	0	0	0	0
6/3/2024 11:11	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/3/2024 11:13	22903	HARW_T1	0	22	22	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 11:13	22904	HARW_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
6/3/2024 11:14	64904	MILL_T1	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
6/3/2024 11:14	53902	HALI_T2	2	1	-1	2.75	5.2	2.45	0	0	0	0	0	0	0	0
6/3/2024 11:14	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/3/2024 11:14	53903	HALI_T2	3	5	2	0.93	0.82	-0.11	-0.07	-0.07	0	0	0	0	0	0
6/3/2024 11:15	45802	HEGI_T2	2	9	7	0.2	0.31	0.11	0.51	0.42	2	2	0	1200	1200	0
6/3/2024 11:15	52403	GRPA_T2	0	2	2	0	0.3	0.3	0.33	0.36	0	0	0	0	0	0
6/3/2024 11:16	53902	HALI_T2	1	3	2	4.9	2.03	-2.87	0	0	0	0	0	0	0	0
6/3/2024 11:16	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/3/2024 11:16	64204	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 11:16	64202	KINZ_T1	0	0	0	0	0	0	1.24	1.31	0	0	0	0	0	0
6/3/2024 11:16	53903	HALI_T2	5	4	-1	0.8	0.95	0.15	-0.03	-0.03	0	0	0	0	0	0
6/3/2024 11:19	14801	TREI_T2	1	1	0	0.4	0.6	0.2	0.68	0.76	0	0	0	0	0	0
6/3/2024 11:19	41902	REED_T1	0	0	0	0	0	0	1.28	1.32	0	0	0	0	0	0
6/3/2024 11:20	67502	WEWI_T2	1	4	3	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/3/2024 11:20	43201	MVIL_T2	4	4	0	0.25	0.25	0	-0.28	-0.27	0	0	0	0	0	0
6/3/2024 11:20	67503	WEWI_T2	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
6/3/2024 11:21	67503	WEWI_T2	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
6/3/2024 11:21	67605	WARW_T1	0	1	1	0	1	1	-0.77	-0.71	0	0	0	0	0	0
6/3/2024 11:21	67502	WEWI_T2	1	4	3	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/3/2024 11:21	43301	WATS_T2	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
6/3/2024 11:21	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 11:22	55102	WERT_T2	0	0	0	0	0	0	-0.66	-0.52	2	2	0	1200	1200	0
6/3/2024 11:23	56801	BENV_T1	9	12	3	0.62	0.48	-0.14	-0.36	-0.3	1	1	0	600	600	0
6/3/2024 11:23	56803	BENV_T1	1	2	1	2.9	0	-2.9	0	0	0	0	0	0	0	0
6/3/2024 11:23	59101	WALK_T2	0	0	0	0	0	0	3.14	3.35	2	2	0	1200	1200	0
6/3/2024 11:24	55102	WERT_T2	0	0	0	0	0	0	-0.52	-0.56	2	2	0	1200	1200	0
6/3/2024 11:24	59101	WALK_T2	0	0	0	0	0	0	3.14	3.35	2	2	0	1200	1200	0
6/3/2024 11:24	56803	BENV_T1	1	2	1	2.9	0	-2.9	0	0	0	0	0	0	0	0
6/3/2024 11:24	15103	UPHA_T2	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
6/3/2024 11:24	56801	BENV_T1	9	12	3	0.62	0.48	-0.14	-1.07	-0.89	3	3	0	1800	1800	0
6/3/2024 11:25	67503	WEWI_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
6/3/2024 11:25	56803	BENV_T1	1	2	1	2.9	0	-2.9	0	0	0	0	0	0	0	0
6/3/2024 11:25	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/3/2024 11:25	67502	WEWI_T2	1	4	3	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/3/2024 11:25	56801	BENV_T1	9	12	3	0.62	0.48	-0.14	-0.71	-0.59	2	2	0	1200	1200	0
6/3/2024 11:25	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 11:25	43301	WATS_T2	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
6/3/2024 11:26	56803	BENV_T1	1	2	1	2.9	0	-2.9	0	0	0	0	0	0	0	0
6/3/2024 11:26	56801	BENV_T1	9	12	3	0.62	0.48	-0.14	-0.71	-0.59	2	2	0	1200	1200	0
6/3/2024 11:27	56803	BENV_T1	1	2	1	2.9	0	-2.9	0	0	0	0	0	0	0	0
6/3/2024 11:27	56801	BENV_T1	9	12	3	0.62	0.48	-0.14	-0.36	-0.3	1	1	0	600	600	0
6/3/2024 11:29	54505	ENOL_T2	0	1	1	0	0.1	0.1	-1	-0.96	1	1	0	600	600	0
6/3/2024 11:29	54504	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/3/2024 11:29	54503	ENOL_T2	0	0	0	0	0	0	-1.34	-1.39	1	1	0	600	600	0
6/3/2024 11:29	41501	FAIR_T2	0	0	0	0	0	0	-0.84	-0.83	1	1	0	600	600	0
6/3/2024 11:31	45802	HEGI_T2	9	6	-3	0.31	0.25	-0.06	0.83	0.7	4	4	0	2400	2400	0
6/3/2024 11:35	51004	NHAR_T1	3	1	-2	2.2	6.5	4.3	-0.06	-0.04	0	0	0	0	0	0
6/3/2024 11:35	15103	UPHA_T2	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
6/3/2024 11:35	17002	RIRO_T2	5	3	-2	0.54	0.9	0.36	0.83	0.85	0	0	0	0	0	0
6/3/2024 11:37	67703	WERN_T2	0	0	0	0	0	0	0.14	0.19	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/3/2024 11:37	40901	JESH_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
6/3/2024 11:37	40902	JESH_T1	0	0	0	0	0	0	0.24	0.37	1	1	0	600	600	0
6/3/2024 11:38	59101	WALK_T2	0	0	0	0	0	0	1.68	1.61	1	1	0	600	600	0
6/3/2024 11:39	67703	WERN_T2	0	0	0	0	0	0	0.38	0.42	2	2	0	1800	1800	0
6/3/2024 11:39	59101	WALK_T2	0	0	0	0	0	0	3.35	3.22	2	2	0	1200	1200	0
6/3/2024 11:40	27503	WEIS_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/3/2024 11:40	27502	WEIS_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
6/3/2024 11:41	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/3/2024 11:41	10901	COOP_T2	0	0	0	0	0	0	0.49	0.55	1	1	0	1200	1200	0
6/3/2024 11:41	10903	COOP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 11:42	60904	DONG_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/3/2024 11:42	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/3/2024 11:42	45502	DERR_T2	2	15	13	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
6/3/2024 11:42	45501	DERR_T2	1	1	0	1	1	0	0.9	0.83	2	2	0	1800	1800	0
6/3/2024 11:42	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/3/2024 11:42	60902	DONG_T2	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
6/3/2024 11:42	60901	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/3/2024 11:42	67402	WAKE_T2	0	0	0	0	0	0	0.8	0.84	1	1	0	600	600	0
6/3/2024 11:43	41502	FAIR_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
6/3/2024 11:44	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/3/2024 11:44	61002	DONV_T2	0	0	0	0	0	0	-0.5	-0.44	2	2	0	1200	1200	0
6/3/2024 11:45	41801	GOO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 11:45	15407	FREE_T2	1	1	0	0.2	0.2	0	1.29	1.38	0	0	0	0	0	0
6/3/2024 11:45	24103	EHAZ_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
6/3/2024 11:45	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/3/2024 11:45	24102	EHAZ_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/3/2024 11:45	24101	EHAZ_T1	22	31	9	1.23	0.6	-0.63	0	0	0	0	0	0	0	0
6/3/2024 11:45	24105	EHAZ_T1	4	4	0	5.78	5.63	-0.15	0	0	0	0	0	0	0	0
6/3/2024 11:48	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 11:48	58401	MORO_T1	0	0	0	0	0	0	-1.15	-1.16	1	1	0	600	600	0
6/3/2024 11:48	12301	LANA_T2	0	0	0	0	0	0	-0.92	-0.89	1	1	0	1200	1200	0
6/3/2024 11:49	66505	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/3/2024 11:49	12803	MICK_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/3/2024 11:49	66502	SMAN_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/3/2024 11:49	12801	MICK_T1	0	0	0	0	0	0	-0.45	-0.44	1	1	0	600	600	0
6/3/2024 11:49	66504	SMAN_T2	0	0	0	0	0	0	-0.89	-0.83	1	1	0	1200	1200	0
6/3/2024 11:49	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/3/2024 11:50	64101	REFR_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
6/3/2024 11:50	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 11:50	58401	MORO_T1	0	0	0	0	0	0	-1.15	-1.16	1	1	0	600	600	0
6/3/2024 11:50	64802	MONE_T2	2	2	0	0.45	0.2	-0.25	0.44	0.22	0	0	0	0	0	0
6/3/2024 11:51	64101	REFR_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
6/3/2024 11:52	55405	SHER_T1	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
6/3/2024 11:52	64101	REFR_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
6/3/2024 11:53	16102	BING_T2	6	6	0	0.23	0.33	0.1	0	0	0	0	0	0	0	0
6/3/2024 11:53	16103	BING_T2	1	1	0	1.1	0.5	-0.6	-0.65	-1.55	2	1	-1	1500	600	-900
6/3/2024 11:53	16101	BING_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/3/2024 11:54	53602	DALM_T2	0	0	0	0	0	0	-0.48	-0.47	1	1	0	600	600	0
6/3/2024 11:54	53601	DALM_T2	1	1	0	0.3	0.8	0.5	-0.29	-0.35	1	1	0	900	900	0
6/3/2024 11:55	67702	WERN_T2	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
6/3/2024 11:57	52402	GRPA_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
6/3/2024 11:57	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
6/3/2024 11:57	52403	GRPA_T2	2	3	1	0.3	0.3	0	0.4	0.37	0	0	0	0	0	0
6/3/2024 11:58	29402	BELT_T1	1	2	1	7.8	4	-3.8	0	0	0	0	0	0	0	0
6/3/2024 11:58	52403	GRPA_T2	2	3	1	0.3	0.3	0	0	0	0	0	0	0	0	0
6/3/2024 11:58	29401	BELT_T1	4	4	0	0.23	0.33	0.1	0	0	1	1	0	900	900	0
6/3/2024 11:58	52404	GRPA_T2	0	0	0	0	0	0	0.44	1.04	0	0	0	0	0	0
6/3/2024 11:58	52402	GRPA_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
6/3/2024 11:59	14201	EALL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 11:59	52402	GRPA_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
6/3/2024 11:59	14203	EALL_T1	0	0	0	0	0	0	0.41	0.37	1	1	0	1200	1200	0
6/3/2024 11:59	52403	GRPA_T2	2	3	1	0.3	0.3	0	0.4	0.37	0	0	0	0	0	0
6/3/2024 12:00	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
6/3/2024 12:00	52402	GRPA_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
6/3/2024 12:00	28403	HART_T2	0	0	0	0	0	0	-0.76	-0.72	1	1	0	900	900	0
6/3/2024 12:00	52403	GRPA_T2	3	2	-1	0.3	0.4	0.1	0.4	0.37	0	0	0	0	0	0
6/3/2024 12:01	52403	GRPA_T2	3	2	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/3/2024 12:01	52402	GRPA_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
6/3/2024 12:01	52404	GRPA_T2	0	0	0	0	0	0	0.44	1.04	0	0	0	0	0	0
6/3/2024 12:04	47802	MOCA_T2	0	1	1	0	0.2	0.2	-0.76	-0.8	0	0	0	0	0	0
6/3/2024 12:05	67702	WERN_T2	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
6/3/2024 12:05	57401	SPAN_T1	1	1	0	2.4	0	-2.4	-0.49	-0.32	1	1	0	600	600	0
6/3/2024 12:05	14601	SWHI_T1	0	2	2	0	0.2	0.2	-0.62	-0.58	0	0	0	0	0	0
6/3/2024 12:05	14603	SWHI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 12:05	57403	SPAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/3/2024 12:06	16302	ALPA_T2	0	0	0	0	0	0	1.24	1.17	0	0	0	0	0	0
6/3/2024 12:06	42802	SELI_T1	1	1	0	0.5	0.3	-0.2	-1.66	-1.66	1	1	0	900	900	0
6/3/2024 12:07	67702	WERN_T2	0	0	0	0	0	0	0.34	0.38	0	0	0	0	0	0
6/3/2024 12:07	16302	ALPA_T2	0	0	0	0	0	0	1.24	1.17	0	0	0	0	0	0
6/3/2024 12:07	61102	BERK_T5	0	0	0	0	0	0	-1.28	-1.25	6	6	0	3600	3600	0
6/3/2024 12:08	27503	WEIS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/3/2024 12:08	42802	SELI_T1	1	1	0	0.5	0.3	-0.2	-1.66	-1.38	1	1	0	900	900	0
6/3/2024 12:08	61102	BERK_T5	0	0	0	0	0	0	-0.42	-0.28	2	2	0	1200	1200	0
6/3/2024 12:08	27502	WEIS_T2	0	1	1	0	1.1	1.1	-0.1	-0.06	0	0	0	0	0	0
6/3/2024 12:09	14404	SSLA_T1	1	1	0	3.9	5.1	1.2	0	0	0	0	0	0	0	0
6/3/2024 12:09	67702	WERN_T2	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
6/3/2024 12:09	14401	SSLA_T1	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
6/3/2024 12:09	14402	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/3/2024 12:09	61102	BERK_T5	0	0	0	0	0	0	-0.42	-0.28	2	2	0	1200	1200	0
6/3/2024 12:09	14403	SSLA_T1	0	0	0	0	0	0	1.17	1.21	0	0	0	0	0	0
6/3/2024 12:10	10105	ALLE_T3	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 12:10	67702	WERN_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
6/3/2024 12:10	10205	ALLE_T3	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/3/2024 12:10	61102	BERK_T5	0	0	0	0	0	0	-0.83	-0.56	4	4	0	2400	2400	0
6/3/2024 12:11	45502	DERR_T2	4	7	3	0.35	0.3	-0.05	0.33	0.36	1	1	0	300	300	0
6/3/2024 12:11	45501	DERR_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/3/2024 12:11	56803	BENV_T1	1	4	3	0.9	0.93	0.03	0	0	0	0	0	0	0	0
6/3/2024 12:11	56801	BENV_T1	7	16	9	0.46	0.74	0.28	-0.23	-0.71	1	2	1	600	1200	600
6/3/2024 12:11	16302	ALPA_T2	0	0	0	0	0	0	2.35	2.66	0	0	0	0	0	0
6/3/2024 12:12	56801	BENV_T1	7	16	9	0.46	0.74	0.28	-0.46	-1.43	2	4	2	1200	2400	1200
6/3/2024 12:12	56803	BENV_T1	1	4	3	0.9	0.93	0.03	0	0	0	0	0	0	0	0
6/3/2024 12:13	56803	BENV_T1	1	4	3	0.9	0.93	0.03	0	0	0	0	0	0	0	0
6/3/2024 12:13	56801	BENV_T1	7	16	9	0.46	0.74	0.28	-0.46	-1.43	2	4	2	1200	2400	1200
6/3/2024 12:13	47001	HUGH_T2	0	0	0	0	0	0	-0.4	-0.35	0	0	0	0	0	0
6/3/2024 12:14	51802	EBEN_T2	2	2	0	1.8	1.8	0	0.93	1.03	1	1	0	900	900	0
6/3/2024 12:14	22903	HARW_T1	22	14	-8	1.05	0	-1.05	0	0	0	0	0	0	0	0
6/3/2024 12:14	52402	LIND_T2	1	2	1	1.4	1.05	-0.35	-0.31	-0.28	0	0	0	0	0	0
6/3/2024 12:14	22904	HARW_T1	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
6/3/2024 12:14	61505	EPET_T1	0	0	0	0	0	0	0.84	0.92	0	0	0	0	0	0
6/3/2024 12:14	51804	EBEN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/3/2024 12:14	22901	HARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/3/2024 12:15	47101	MARL_T1	1	0	-1	0.1	0	-0.1	0.07	0.08	0	0	0	0	0	0
6/3/2024 12:15	46902	MNTG_T2	0	0	0	0	0	0	-0.5	-0.48	1	1	0	600	600	0
6/3/2024 12:15	12604	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 12:15	12601	MACA_T1	2	2	0	0.85	1.45	0.6	1.18	1.23	0	0	0	0	0	0
6/3/2024 12:15	64904	MILL_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
6/3/2024 12:15	46903	MNTG_T2	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/3/2024 12:16	12606	MACA_T1	0	0	0	0	0	0	0.26	0.27	1	1	0	900	900	0
6/3/2024 12:16	12604	MACA_T1	0	1	1	0	0.1	0.1	1.56	1.56	0	0	0	0	0	0
6/3/2024 12:16	13503	MCMI_T2	1	1	0	0.2	0.9	0.7	-0.01	0.02	0	0	0	0	0	0
6/3/2024 12:16	12601	MACA_T1	2	2	0	0.85	1.45	0.6	0	0	0	0	0	0	0	0
6/3/2024 12:17	47402	PENS_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/3/2024 12:17	47403	PENS_T1	1	1	0	2.2	1.9	-0.3	0	0	0	0	0	0	0	0
6/3/2024 12:17	47401	PENS_T1	2	1	-1	0.8	0.5	-0.3	1.33	1.52	0	0	0	0	0	0
6/3/2024 12:18	46101	MACI_T2	0	0	0	0	0	0	-0.64	-0.68	2	2	0	2400	2400	0
6/3/2024 12:18	13503	MCMI_T2	1	1	0	0.2	0.9	0.7	-0.01	0.02	0	0	0	0	0	0
6/3/2024 12:18	45702	LIND_T2	2	2	0	1.05	0.85	-0.2	-0.31	-0.28	0	0	0	0	0	0
6/3/2024 12:19	46903	MNTG_T2	2	2	0	0.5	0.4	-0.1	0.38	0.49	1	1	0	600	600	0
6/3/2024 12:19	47802	MOCA_T2	1	0	-1	0.2	0	-0.2	-0.8	0.5	0	0	0	0	0	0
6/3/2024 12:19	12606	MACA_T1	0	0	0	0	0	0	0.26	0.27	1	1	0	900	900	0
6/3/2024 12:19	40601	PIGR_T1	8	5	-3	0.43	0.36	-0.07	0.19	0.18	0	0	0	0	0	0
6/3/2024 12:19	14801	TREI_T2	2	3	1	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
6/3/2024 12:19	12604	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 12:19	12601	MACA_T1	2	2	0	0.85	1.45	0.6	0	0	0	0	0	0	0	0
6/3/2024 12:19	14802	TREI_T2	0	0	0	0	0	0	0.9	0.92	0	0	0	0	0	0
6/3/2024 12:19	40602	PIGR_T1	2	2	0	1.25	0.9	-0.35	0	0	0	0	0	0	0	0
6/3/2024 12:20	43101	SMIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/3/2024 12:20	43108	SMIL_T2	1	0	-1	0.2	0	-0.2	-0.9	-0.88	1	1	0	1200	1200	0
6/3/2024 12:20	43102	SMIL_T2	0	0	0	0	0	0	-0.52	-0.48	1	1	0	600	600	0
6/3/2024 12:20	43105	SMIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/3/2024 12:20	47001	HUGH_T2	0	0	0	0	0	0	-0.4	-0.35	0	0	0	0	0	0
6/3/2024 12:21	40602	PIGR_T1	2	2	0	1.25	0.9	-0.35	0	0	0	0	0	0	0	0
6/3/2024 12:21	40601	PIGR_T1	8	5	-3	0.43	0.36	-0.07	0.37	0.37	0	0	0	0	0	0
6/3/2024 12:22	18001	ZION_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
6/3/2024 12:22	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/3/2024 12:22	55101	WERT_T1	0	0	0	0	0	0	-1.63	-1.57	4	4	0	3300	3300	0
6/3/2024 12:22	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 12:23	55101	WERT_T1	0	0	0	0	0	0	-1.57	-1.61	4	4	0	3300	3300	0
6/3/2024 12:23	26601	BROO_T1	0	0	0	0	0	0	0.5	0.55	0	0	0	0	0	0
6/3/2024 12:24	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 12:24	67605	WARW_T1	1	1	0	0.8	0.8	0	-1.23	-1.75	0	0	0	0	0	0
6/3/2024 12:24	55101	WERT_T1	0	0	0	0	0	0	-3.15	-3.21	8	8	0	6600	6600	0
6/3/2024 12:24	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	1	1	0	900	900	0
6/3/2024 12:25	44504	HAMI_T2	0	0	0	0	0	0	-1.99	-1.99	1	1	0	1200	1200	0
6/3/2024 12:25	67502	WEWI_T2	3	2	-1	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
6/3/2024 12:25	67603	WARW_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
6/3/2024 12:25	67503	WEWI_T2	0	0	0	0	0	0	0.34	0.4	0	0	0	0	0	0
6/3/2024 12:25	44502	HAMI_T2	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
6/3/2024 12:25	67605	WARW_T1	1	1	0	0.8	0.8	0	-0.62	-0.88	0	0	0	0	0	0
6/3/2024 12:26	55101	WERT_T1	0	0	0	0	0	0	-1.57	-1.61	4	4	0	3300	3300	0
6/3/2024 12:26	45902	AUBU_T1	0	0	0	0	0	0	-0.85	-0.91	2	2	0	1200	1200	0
6/3/2024 12:27	40802	EXCH_T2	1	1	0	0.9	1	0.1	0.3	0.52	0	0	0	0	0	0
6/3/2024 12:27	40801	EXCH_T2	0	2	2	0	0.25	0.25	-0.12	-0.16	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/3/2024 12:28	54504	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/3/2024 12:28	40801	EXCH_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/3/2024 12:28	54505	ENOL_T2	1	0	-1	0.1	0	-0.1	-0.92	-0.85	1	1	0	600	600	0
6/3/2024 12:28	40802	EXCH_T2	1	1	0	0.9	1	0.1	0.3	0.52	0	0	0	0	0	0
6/3/2024 12:28	63804	HEMP_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
6/3/2024 12:28	63802	HEMP_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
6/3/2024 12:29	40801	EXCH_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/3/2024 12:29	63804	HEMP_T1	1	1	0	7.4	7.2	-0.2	-0.12	-0.03	0	0	0	0	0	0
6/3/2024 12:29	40802	EXCH_T2	1	1	0	0.9	1	0.1	0.3	0.52	0	0	0	0	0	0
6/3/2024 12:29	45802	HEGI_T2	0	2	2	0	0	0	0.63	0.6	2	2	0	1200	1200	0
6/3/2024 12:30	25503	MADI_T1	0	0	0	0	0	0	-0.79	-0.77	0	0	0	0	0	0
6/3/2024 12:30	25501	MADI_T1	1	2	1	0.3	0.65	0.35	0	0	0	0	0	0	0	0
6/3/2024 12:30	23202	HIRU_T2	3	2	-1	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
6/3/2024 12:30	25502	MADI_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/3/2024 12:30	23203	HIRU_T2	2	3	1	0.45	0.3	-0.15	0.17	0.17	0	0	0	0	0	0
6/3/2024 12:31	12701	MACU_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
6/3/2024 12:33	12701	MACU_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
6/3/2024 12:33	15702	TANN_T2	0	1	1	0	0.2	0.2	-0.39	-0.23	0	0	0	0	0	0
6/3/2024 12:33	15703	TANN_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
6/3/2024 12:34	58401	MORO_T1	0	1	1	0	0.1	0.1	-1.09	-1.7	1	2	1	600	1200	600
6/3/2024 12:34	12505	MITR_T2	0	0	0	0	0	0	1.85	2.34	0	0	0	0	0	0
6/3/2024 12:34	12501	MITR_T2	1	1	0	9.7	7.5	-2.2	0	0	0	0	0	0	0	0
6/3/2024 12:34	12502	MITR_T2	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 12:35	67203	TEHI_T1	3	3	0	0.93	0	-0.93	2.09	2.22	2	3	1	1200	2100	900
6/3/2024 12:35	65501	MOJO_T1	0	0	0	0	0	0	-1.86	-1.74	2	2	0	1800	1800	0
6/3/2024 12:35	23001	SAJO_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
6/3/2024 12:35	43301	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/3/2024 12:35	67201	TEHI_T1	5	9	4	0.52	0.23	-0.29	0	0	0	0	0	0	0	0
6/3/2024 12:36	13905	SEID_T1	3	2	-1	0.47	0.55	0.08	0	0	0	0	0	0	0	0
6/3/2024 12:36	13902	SEID_T1	1	1	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
6/3/2024 12:36	13901	SEID_T1	1	0	-1	0.3	0	-0.3	-0.68	-0.67	1	1	0	1200	1200	0
6/3/2024 12:37	15703	TANN_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
6/3/2024 12:37	15702	TANN_T2	0	1	1	0	0.2	0.2	-0.2	-0.11	0	0	0	0	0	0
6/3/2024 12:38	67203	TEHI_T1	3	3	0	0.93	0	-0.93	0	0	0	0	0	0	0	0
6/3/2024 12:38	67201	TEHI_T1	5	9	4	0.52	0.23	-0.29	0.2	0.34	2	2	0	1500	1500	0
6/3/2024 12:39	45402	WBLO_T2	2	4	2	0.75	0.53	-0.22	-0.5	-0.53	0	0	0	0	0	0
6/3/2024 12:39	57002	WHHI_T2	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
6/3/2024 12:39	10801	CHHI_T1	2	2	0	0.4	0.4	0	-0.57	-0.58	2	2	0	1500	1500	0
6/3/2024 12:40	45402	WBLO_T2	2	4	2	0.75	0.53	-0.22	-0.25	-0.26	0	0	0	0	0	0
6/3/2024 12:40	14204	BALL_T2	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
6/3/2024 12:40	49803	UNIV_T1	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
6/3/2024 12:43	53501	EVIL_T2	1	1	0	0.2	0.7	0.5	-0.75	-0.85	4	4	0	2300	2300	0
6/3/2024 12:44	63501	HEID_TBK1-2	0	1	1	0	0	0	0.57	0.62	1	1	0	900	900	0
6/3/2024 12:44	64204	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/3/2024 12:44	64203	KINZ_T1	1	2	1	0.1	0.2	0.1	0.08	0.4	3	3	0	2100	2100	0
6/3/2024 12:45	12601	MACA_T1	2	2	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
6/3/2024 12:45	64701	LITI_T1	0	0	0	0	0	0	0.79	0.81	0	0	0	0	0	0
6/3/2024 12:45	12605	MACA_T1	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
6/3/2024 12:46	63803	HEMP_T1	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
6/3/2024 12:46	63804	HEMP_T1	1	1	0	7.4	7.3	-0.1	0	0	0	0	0	0	0	0
6/3/2024 12:48	55408	SHER_T2	2	2	0	0.8	0.65	-0.15	-0.68	-0.62	1	1	0	1200	1200	0
6/3/2024 12:48	64902	MILL_T2	0	0	0	0	0	0	-0.09	-0.69	1	1	0	900	900	0
6/3/2024 12:49	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 12:50	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 12:54	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 12:55	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 12:57	53502	EVIL_T2	0	0	0	0	0	0	0.3	0.4	2	2	0	1200	1200	0
6/3/2024 12:57	53501	EVIL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
6/3/2024 12:58	54504	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/3/2024 12:58	54505	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/3/2024 12:58	54506	ENOL_T2	0	0	0	0	0	0	-0.42	-0.35	0	1	1	0	600	600
6/3/2024 12:59	24103	EHAZ_T1	0	0	0	0	0	0	-0.16	-0.21	0	0	0	0	0	0
6/3/2024 12:59	24102	EHAZ_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/3/2024 12:59	24101	EHAZ_T1	29	15	-14	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/3/2024 12:59	24105	EHAZ_T1	4	4	0	5.98	5.8	-0.18	0	0	0	0	0	0	0	0
6/3/2024 13:01	63601	LETO_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/3/2024 13:01	63602	LETO_T1	0	1	1	0	0.1	0.1	-0.21	-0.21	1	1	0	600	600	0
6/3/2024 13:03	12701	MACU_T1	0	1	1	0	1.5	1.5	0.6	0.58	0	0	0	0	0	0
6/3/2024 13:03	13606	RICH_T2	1	2	1	7.9	7.6	-0.3	1.42	1.41	0	0	0	0	0	0
6/3/2024 13:05	57006	WHHI_T2	0	1	1	0	0.1	0.1	0.62	1.24	1	0	-1	600	0	-600
6/3/2024 13:05	66701	STRA_T1	0	0	0	0	0	0	0.9	1.04	2	2	0	1200	1200	0
6/3/2024 13:06	67703	WERN_T2	1	0	-1	0.1	0	-0.1	0.36	0.39	1	1	0	900	900	0
6/3/2024 13:06	67605	WARW_T1	2	1	-1	0.6	0.9	0.3	-0.86	-0.86	0	0	0	0	0	0
6/3/2024 13:07	67702	WERN_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
6/3/2024 13:07	67703	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/3/2024 13:08	57004	WHHI_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
6/3/2024 13:08	57006	WHHI_T2	0	1	1	0	0.1	0.1	1.24	0.42	1	0	-1	600	0	-600
6/3/2024 13:09	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 13:09	57002	WHHI_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
6/3/2024 13:09	55105	WERT_T1	0	0	0	0	0	0	0.27	0.27	1	1	0	900	900	0
6/3/2024 13:09	61102	BERK_T5	0	0	0	0	0	0	-0.21	-0.18	2	2	0	1200	1200	0
6/3/2024 13:09	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 13:09	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 13:09	10102	ALLE_T2	1	1	0	7.5	7.5	0	0	0	0	0	0	0	0	0
6/3/2024 13:09	67703	WERN_T2	1	0	-1	0.1	0	-0.1	0.39	0.33	1	1	0	900	900	0
6/3/2024 13:10	55101	WERT_T1	0	0	0	0	0	0	-3.24	-3.32	8	8	0	6600	6600	0
6/3/2024 13:10	67703	WERN_T2	1	0	-1	0.1	0	-0.1	0.39	0.33	1	1	0	900	900	0
6/3/2024 13:10	58006	WCAR_T2	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
6/3/2024 13:10	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 13:10	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 13:10	57004	WHHI_T2	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
6/3/2024 13:11	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 13:11	57004	WHHI_T2	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
6/3/2024 13:13	56603	HAMP_T1	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
6/3/2024 13:14	54504	ENOL_T2	0	1	1	0	0.5	0.5	-0.77	-0.74	1	1	0	600	600	0
6/3/2024 13:14	54505	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/3/2024 13:15	64203	KINZ_T1	2	2	0	1.3	1	-0.3	0.46	0.27	3	3	0	2100	2100	0
6/3/2024 13:15	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/3/2024 13:15	42902	MIDD_T2	0	0	0	0	0	0	-0.06	-0.16	0	0	0	0	0	0
6/3/2024 13:16	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/3/2024 13:16	64203	KINZ_T1	2	2	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
6/3/2024 13:16	64201	KINZ_T1	0	0	0	0	0	0	0.01	0.04	4	4	0	2100	2100	0
6/3/2024 13:18	54201	PENN_T1	6	6	0	0.72	0.68	-0.04	0	0	0	0	0	0	0	0
6/3/2024 13:18	54203	PENN_T1	18	18	0	0.39	0.43	0.04	0.15	0.16	1	1	0	600	600	0
6/3/2024 13:19	14404	SSLA_T1	1	1	0	4.8	4.8	0	0.22	0.2	0	0	0	0	0	0
6/3/2024 13:19	54203	PENN_T1	18	18	0	0.39	0.43	0.04	0.15	0.16	1	1	0	600	600	0
6/3/2024 13:19	54201	PENN_T1	6	6	0	0.72	0.68	-0.04	0	0	0	0	0	0	0	0
6/3/2024 13:19	64902	MILL_T2	0	0	0	0	0	0	-0.67	-0.65	1	1	0	900	900	0
6/3/2024 13:19	14402	SSLA_T1	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
6/3/2024 13:19	57303	MOAL_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
6/3/2024 13:19	65501	MOJO_T1	0	0	0	0	0	0	-1.72	-1.57	2	2	0	1800	1800	0
6/3/2024 13:19	57304	MOAL_T2	0	0	0	0	0	0	-0.01	-0.06	0	0	0	0	0	0
6/3/2024 13:19	14401	SSLA_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
6/3/2024 13:20	14402	SSLA_T1	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
6/3/2024 13:20	57104	SPHI_T2	2	2	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
6/3/2024 13:20	14404	SSLA_T1	1	1	0	4.8	4.8	0	0.22	0.2	0	0	0	0	0	0
6/3/2024 13:20	54201	PENN_T1	6	6	0	0.72	0.68	-0.04	-0.45	-0.44	0	0	0	0	0	0
6/3/2024 13:20	57106	SPHI_T2	3	3	0	0.77	0.53	-0.24	0	0	0	0	0	0	0	0
6/3/2024 13:20	57103	SPHI_T2	0	0	0	0	0	0	0.21	0.2	1	1	0	600	600	0
6/3/2024 13:20	54203	PENN_T1	18	18	0	0.39	0.43	0.04	0	0	0	0	0	0	0	0
6/3/2024 13:20	14401	SSLA_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
6/3/2024 13:21	57106	SPHI_T2	3	3	0	0.77	0.53	-0.24	0	0	0	0	0	0	0	0
6/3/2024 13:21	57104	SPHI_T2	2	2	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
6/3/2024 13:21	57101	SPHI_T2	0	0	0	0	0	0	0.8	0.78	0	0	0	0	0	0
6/3/2024 13:22	14403	SSLA_T1	0	0	0	0	0	0	1.3	1.3	0	0	0	0	0	0
6/3/2024 13:22	14404	SSLA_T1	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
6/3/2024 13:22	14402	SSLA_T1	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
6/3/2024 13:22	67702	WERN_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
6/3/2024 13:22	14401	SSLA_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
6/3/2024 13:22	57101	SPHI_T2	0	0	0	0	0	0	0.8	0.78	0	0	0	0	0	0
6/3/2024 13:22	57106	SPHI_T2	3	3	0	0.77	0.53	-0.24	0	0	0	0	0	0	0	0
6/3/2024 13:22	57103	SPHI_T2	0	0	0	0	0	0	0.21	0.2	1	1	0	600	600	0
6/3/2024 13:22	57104	SPHI_T2	2	2	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
6/3/2024 13:23	57104	SPHI_T2	2	2	0	0.4	0.65	0.25	-0.14	-1.1	0	0	0	0	0	0
6/3/2024 13:23	58702	ROSE_T2	0	0	0	0	0	0	-2.03	-1.98	0	0	0	0	0	0
6/3/2024 13:23	58704	ROSE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 13:23	57106	SPHI_T2	3	3	0	0.77	0.53	-0.24	0	0	0	0	0	0	0	0
6/3/2024 13:23	58705	ROSE_T2	5	5	0	1.16	1.02	-0.14	0	0	0	0	0	0	0	0
6/3/2024 13:23	66502	SMAN_T2	0	1	1	0	0.1	0.1	0.56	0.47	0	0	0	0	0	0
6/3/2024 13:23	57303	MOAL_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
6/3/2024 13:23	14101	TRUM_T2	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
6/3/2024 13:23	14102	TRUM_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/3/2024 13:23	58706	ROSE_T2	1	1	0	1.4	2.2	0.8	0	0	0	0	0	0	0	0
6/3/2024 13:23	66501	SMAN_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/3/2024 13:23	57302	MOAL_T2	0	0	0	0	0	-0.99	-1	1	1	0	0	1200	1200	0
6/3/2024 13:23	57103	SPHI_T2	0	0	0	0	0	0	0.2	0.21	1	1	0	600	600	0
6/3/2024 13:23	14103	TRUM_T2	2	1	-1	0.55	1.1	0.55	0	0	0	0	0	0	0	0
6/3/2024 13:23	66505	SMAN_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/3/2024 13:24	56801	BENV_T1	17	10	-7	0.82	0.74	-0.08	-0.63	-0.66	2	2	0	1200	1200	0
6/3/2024 13:24	57103	SPHI_T2	0	0	0	0	0	0	0.2	0.21	1	1	0	600	600	0
6/3/2024 13:24	57106	SPHI_T2	3	3	0	0.77	0.53	-0.24	0	0	0	0	0	0	0	0
6/3/2024 13:24	67703	WERN_T2	0	0	0	0	0	0	0.33	0.35	1	1	0	900	900	0
6/3/2024 13:24	57104	SPHI_T2	2	2	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
6/3/2024 13:24	57006	WHHI_T2	0	1	1	0	0.1	0.1	0.42	0.49	0	1	1	0	600	600
6/3/2024 13:24	56803	BENV_T1	2	3	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/3/2024 13:25	45902	AUBU_T1	0	1	1	0	0.5	0.5	-0.56	-0.58	1	1	0	600	600	0
6/3/2024 13:26	48901	FOSP_T2	0	0	0	0	0	0	-0.07	-0.09	1	1	0	600	600	0
6/3/2024 13:28	67804	WLAN_T1	1	0	-1	0.2	0	-0.2	-0.92	-0.85	0	0	0	0	0	0
6/3/2024 13:30	12703	MACU_T2	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
6/3/2024 13:30	12803	MICK_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/3/2024 13:30	46801	HEPB_T2	2	2	0	0.35	0.1	-0.25	1.06	1.07	0	0	0	0	0	0
6/3/2024 13:30	12802	MICK_T1	0	0	0	0	0	0	-0.45	-0.49	0	0	0	0	0	0
6/3/2024 13:30	46803	HEPB_T2	3	1	-2	0.5	0.3	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/3/2024 13:31	64204	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/3/2024 13:31	64201	KINZ_T1	0	0	0	0	0	0	0.04	0.11	4	4	0	2100	2100	0
6/3/2024 13:31	52404	GRPA_T2	0	0	0	0	0	0	1.02	1.03	0	0	0	0	0	0
6/3/2024 13:31	52403	GRPA_T2	11	7	-4	0.61	0.33	-0.28	0	0	0	0	0	0	0	0
6/3/2024 13:31	52004	LING_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
6/3/2024 13:31	52402	GRPA_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
6/3/2024 13:31	64203	KINZ_T1	1	2	1	1	0.7	-0.3	0	0	0	0	0	0	0	0
6/3/2024 13:32	52404	GRPA_T2	0	0	0	0	0	0	1.02	1.03	0	0	0	0	0	0
6/3/2024 13:32	52403	GRPA_T2	11	7	-4	0.61	0.33	-0.28	0	0	0	0	0	0	0	0
6/3/2024 13:35	43103	SMIL_T2	3	4	1	0.23	0.2	-0.03	-4.97	-4.9	0	0	0	0	0	0
6/3/2024 13:35	65604	QVIL_T2	0	0	0	0	0	0	0.79	0.8	0	0	0	0	0	0
6/3/2024 13:35	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 13:35	43101	SMIL_T2	2	1	-1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
6/3/2024 13:35	43108	SMIL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/3/2024 13:36	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 13:36	14102	TRUM_T2	2	0	-2	4.4	0	-4.4	0.48	0.6	2	2	0	1500	1500	0
6/3/2024 13:36	43101	SMIL_T2	2	1	-1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
6/3/2024 13:36	43103	SMIL_T2	3	4	1	0.23	0.2	-0.03	-1.66	-1.63	0	0	0	0	0	0
6/3/2024 13:36	43108	SMIL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/3/2024 13:36	14103	TRUM_T2	1	12	11	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
6/3/2024 13:37	64204	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/3/2024 13:37	43103	SMIL_T2	3	4	1	0.23	0.2	-0.03	-1.66	-1.63	0	0	0	0	0	0
6/3/2024 13:37	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 13:37	64203	KINZ_T1	1	2	1	1	0.7	-0.3	0.27	0.47	3	3	0	2100	2100	0
6/3/2024 13:37	43101	SMIL_T2	2	1	-1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
6/3/2024 13:37	43108	SMIL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/3/2024 13:38	50701	SMEC_T1	2	2	0	0.5	0.75	0.25	0.17	0.1	1	1	0	1200	1200	0
6/3/2024 13:38	67702	WERN_T2	0	0	0	0	0	0	0.25	0.18	0	0	0	0	0	0
6/3/2024 13:38	64204	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/3/2024 13:38	67401	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/3/2024 13:38	67402	WAKE_T2	0	0	0	0	0	0	0.89	0.91	1	1	0	600	600	0
6/3/2024 13:38	64203	KINZ_T1	1	2	1	1	0.7	-0.3	0.47	0.55	3	3	0	2100	2100	0
6/3/2024 13:39	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 13:40	67702	WERN_T2	0	0	0	0	0	0	0.25	0.18	0	0	0	0	0	0
6/3/2024 13:41	11804	FRAN_T1	6	10	4	0.27	0.4	0.13	0	0	0	0	0	0	0	0
6/3/2024 13:41	53501	EVIL_T2	0	2	2	0	0.35	0.35	-0.97	-0.67	4	4	0	2300	2300	0
6/3/2024 13:41	45502	DERR_T2	2	1	-1	0.65	0.3	-0.35	0	0	0	0	0	0	0	0
6/3/2024 13:41	11805	FRAN_T1	0	0	0	0	0	0	-1.82	-1.8	1	1	0	1200	1200	0
6/3/2024 13:41	45501	DERR_T2	2	2	0	1.15	0.8	-0.35	0.92	0.89	2	2	0	1800	1800	0
6/3/2024 13:42	53501	EVIL_T2	0	2	2	0	0.35	0.35	-0.97	-0.67	4	4	0	2300	2300	0
6/3/2024 13:43	53501	EVIL_T2	0	2	2	0	0.35	0.35	-0.97	-0.67	4	4	0	2300	2300	0
6/3/2024 13:43	51802	EBEN_T2	2	2	0	2.1	2.25	0.15	0.95	1.07	1	1	0	900	900	0
6/3/2024 13:44	45501	DERR_T2	2	2	0	1.15	0.8	-0.35	0.92	0.89	2	2	0	1800	1800	0
6/3/2024 13:44	45502	DERR_T2	2	1	-1	0.65	0.3	-0.35	0	0	0	0	0	0	0	0
6/3/2024 13:45	52403	GRPA_T2	7	3	-4	0.31	0.4	0.09	0.02	-0.01	0	0	0	0	0	0
6/3/2024 13:45	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 13:45	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 13:47	64203	KINZ_T1	2	2	0	0.7	0.95	0.25	0.47	0.55	3	3	0	2100	2100	0
6/3/2024 13:47	64204	KINZ_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/3/2024 13:48	12704	MACU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 13:48	59302	MCAL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/3/2024 13:48	12701	MACU_T1	1	0	-1	0.3	0	-0.3	0.33	0.34	0	0	0	0	0	0
6/3/2024 13:48	63304	GREE_T1	0	0	0	0	0	0	-0.96	-0.91	0	0	0	0	0	0
6/3/2024 13:48	59301	MCAL_T1	0	1	1	0	0.1	0.1	-0.91	-0.91	0	0	0	0	0	0
6/3/2024 13:50	58006	WCAR_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
6/3/2024 13:51	48302	ORWI_T2	2	2	0	0.6	1.2	0.6	0	0	0	0	0	0	0	0
6/3/2024 13:51	43304	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 13:51	48303	ORWI_T2	0	0	0	0	0	0	0.35	0.31	0	0	0	0	0	0
6/3/2024 13:52	58006	WCAR_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
6/3/2024 13:52	43302	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/3/2024 13:52	43304	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 13:53	56803	BENV_T1	2	2	0	1.5	0.3	-1.2	0	0	0	0	0	0	0	0
6/3/2024 13:53	56801	BENV_T1	10	6	-4	0.63	0.38	-0.25	-1.2	-1.17	4	4	0	2400	2400	0
6/3/2024 13:53	43304	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 13:54	56801	BENV_T1	10	6	-4	0.63	0.38	-0.25	-0.6	-0.58	2	2	0	1200	1200	0
6/3/2024 13:54	56803	BENV_T1	2	2	0	1.5	0.3	-1.2	0	0	0	0	0	0	0	0
6/3/2024 13:55	56801	BENV_T1	10	6	-4	0.63	0.38	-0.25	-0.6	-0.58	2	2	0	1200	1200	0
6/3/2024 13:55	56803	BENV_T1	2	2	0	1.5	0.3	-1.2	0	0	0	0	0	0	0	0
6/3/2024 13:56	43304	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 13:56	56803	BENV_T1	2	2	0	1.5	0.3	-1.2	0	0	0	0	0	0	0	0
6/3/2024 13:56	10805	CHHI_T2	14	14	0	1.74	1.2	-0.54	-0.31	-0.34	1	1	0	600	600	0
6/3/2024 13:56	56801	BENV_T1	10	6	-4	0.63	0.38	-0.25	-1.2	-1.17	4	4	0	2400	2400	0
6/3/2024 13:57	46506	LOHA_T1	0	0	0	0	0	0	-0.2	-0.23	0	0	0	0	0	0
6/3/2024 13:57	61501	EPET_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
6/3/2024 13:57	56801	BENV_T1	10	6	-4	0.63	0.38	-0.25	-0.6	-0.58	2	2	0	1200	1200	0
6/3/2024 13:57	61504	EPET_T2	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
6/3/2024 13:57	56803	BENV_T1	2	2	0	1.5	0.3	-1.2	0	0	0	0	0	0	0	0
6/3/2024 13:57	46504	LOHA_T1	2	3	1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
6/3/2024 13:58	56803	BENV_T1	2	2	0	1.5	0.3	-1.2	0	0	0	0	0	0	0	0
6/3/2024 13:58	24702	FLND_T2	2	1	-1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/3/2024 13:58	24701	FLND_T2	0	0	0	0	0	0	0.52	0.47	0	0	0	0	0	0
6/3/2024 13:58	56801	BENV_T1	10	6	-4	0.63	0.38	-0.25	-0.6	-0.58	2	2	0	1200	1200	0
6/3/2024 14:00	54504	ENOL_T2	0	1	1	0	0.2	0.2	-0.76	-0.7	1	1	0	600	600	0
6/3/2024 14:01	54502	ENOL_T2	0	0	0	0	0	0	-1.02	-1.08	1	1	0	600	600	0
6/3/2024 14:01	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/3/2024 14:01	47802	MOCA_T2	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
6/3/2024 14:02	48302	ORWI_T2	2	2	0	1.2	1.1	-0.1	-0.22	-0.2	0	0	0	0	0	0
6/3/2024 14:03	13503	MCMI_T2	2	0	-2	0.6	0	-0.6	0.13	0.09	0	0	0	0	0	0
6/3/2024 14:04	43105	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/3/2024 14:04	43108	SMIL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/3/2024 14:04	43102	SMIL_T2	0	0	0	0	0	0	-0.45	-0.47	1	1	0	600	600	0
6/3/2024 14:04	43103	SMIL_T2	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/3/2024 14:05	60803	BUCK_T1	0	0	0	0	0	0	-0.24	-0.24	1	1	0	600	600	0
6/3/2024 14:05	43103	SMIL_T2	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/3/2024 14:05	43105	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/3/2024 14:05	67001	STHI_T2	0	0	0	0	0	0	0.43	0.51	0	0	0	0	0	0
6/3/2024 14:05	43108	SMIL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/3/2024 14:05	43102	SMIL_T2	0	0	0	0	0	0	-0.45	-0.47	1	1	0	600	600	0
6/3/2024 14:06	17804	GILB_T2	0	1	1	0	0.1	0.1	-0.46	-0.45	0	0	0	0	0	0
6/3/2024 14:06	48303	ORWI_T2	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
6/3/2024 14:06	48302	ORWI_T2	2	2	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
6/3/2024 14:06	58006	WCAR_T2	0	0	0	0	0	0	-0.56	-0.53	0	0	0	0	0	0
6/3/2024 14:07	64101	REFR_T1	0	0	0	0	0	0	1.07	1.26	0	0	0	0	0	0
6/3/2024 14:13	24104	EHAZ_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/3/2024 14:13	24105	EHAZ_T1	4	5	1	5.85	5.8	-0.05	-1.63	-1.65	1	1	0	1200	1200	0
6/3/2024 14:13	24101	EHAZ_T1	29	29	0	0.73	0.18	-0.55	0	0	0	0	0	0	0	0
6/3/2024 14:14	52004	LING_T2	1	0	-1	0.6	0	-0.6	0.64	0.58	0	0	0	0	0	0
6/3/2024 14:14	52002	LING_T2	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
6/3/2024 14:17	46101	MACI_T2	0	0	0	0	0	0	-0.07	0	1	1	0	1200	1200	0
6/3/2024 14:17	52002	LING_T2	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
6/3/2024 14:18	41901	REED_T1	0	0	0	0	0	0	-1.06	-1.04	1	1	0	900	900	0
6/3/2024 14:18	41902	REED_T1	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/3/2024 14:19	58401	MORO_T1	0	1	1	0	0	0	-1.59	-1.58	2	2	0	1200	1200	0
6/3/2024 14:20	58401	MORO_T1	0	1	1	0	0	0	-1.59	-1.58	2	2	0	1200	1200	0
6/3/2024 14:21	58006	WCAR_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
6/3/2024 14:22	57006	WHHI_T2	0	0	0	0	0	0	0.5	0.53	1	1	0	600	600	0
6/3/2024 14:23	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 14:23	56801	BENV_T1	1	6	5	0.1	0.8	0.7	-1.16	-1.17	4	4	0	2400	2400	0
6/3/2024 14:24	56801	BENV_T1	1	6	5	0.1	0.8	0.7	-0.58	-0.58	2	2	0	1200	1200	0
6/3/2024 14:24	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/3/2024 14:24	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 14:24	67503	WEWI_T2	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
6/3/2024 14:25	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 14:25	56801	BENV_T1	1	6	5	0.1	0.8	0.7	-1.16	-1.17	4	4	0	2400	2400	0
6/3/2024 14:27	52404	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/3/2024 14:27	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 14:27	52402	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/3/2024 14:27	56801	BENV_T1	1	6	5	0.1	0.8	0.7	-0.58	-0.58	2	2	0	1200	1200	0
6/3/2024 14:27	52403	GRPA_T2	2	1	-1	0.35	0	-0.35	-0.01	-0.01	0	0	0	0	0	0
6/3/2024 14:28	56802	BENV_T2	2	1	-1	0.25	0.5	0.25	-0.97	-0.98	0	0	0	0	0	0
6/3/2024 14:28	48902	FOSP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 14:28	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 14:28	48901	FOSP_T2	0	1	1	0	0.4	0.4	-0.27	-0.27	1	1	0	600	600	0
6/3/2024 14:28	56801	BENV_T1	1	6	5	0.1	0.8	0.7	-0.58	-0.58	2	2	0	1200	1200	0
6/3/2024 14:29	48901	FOSP_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/3/2024 14:29	48902	FOSP_T2	0	1	1	0	0.1	0.1	0.49	0.41	0	0	0	0	0	0
6/3/2024 14:30	58001	WCAR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 14:30	58003	WCAR_T1	1	1	0	0.9	0.9	0	0.55	0.58	1	1	0	600	600	0
6/3/2024 14:30	48901	FOSP_T2	0	2	2	0	0.45	0.45	-0.27	-0.27	1	1	0	600	600	0
6/3/2024 14:30	48902	FOSP_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/3/2024 14:32	65502	MOJO_T2	0	0	0	0	0	0	-1.31	-0.33	1	1	0	900	900	0
6/3/2024 14:34	13302	ORVI_T2	0	1	1	0	0.1	0.1	0.95	0.94	0	0	0	0	0	0
6/3/2024 14:34	41902	REED_T1	2	0	-2	0.35	0	-0.35	1.37	1.36	0	0	0	0	0	0
6/3/2024 14:34	64101	REFR_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
6/3/2024 14:35	41902	REED_T1	2	0	-2	0.35	0	-0.35	4.1	4.07	0	0	0	0	0	0
6/3/2024 14:36	65502	MOJO_T2	0	0	0	0	0	0	-1.31	-0.33	1	1	0	900	900	0
6/3/2024 14:37	43108	SMIL_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
6/3/2024 14:37	43103	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/3/2024 14:37	43101	SMIL_T2	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
6/3/2024 14:38	66505	SMAN_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/3/2024 14:38	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 14:38	66503	SMAN_T2	0	0	0	0	0	0	0.98	1.01	0	0	0	0	0	0
6/3/2024 14:40	48901	FOSP_T2	0	2	2	0	0.45	0.45	-0.27	-0.27	1	1	0	600	600	0
6/3/2024 14:40	48902	FOSP_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/3/2024 14:40	61701	ELIZ_T1	2	1	-1	1.8	2.2	0.4	0.97	1.06	0	0	0	0	0	0
6/3/2024 14:41	48902	FOSP_T2	0	2	2	0	0.15	0.15	0.82	0.66	0	0	0	0	0	0
6/3/2024 14:41	61701	ELIZ_T1	2	1	-1	1.8	2.2	0.4	0.97	1.06	0	0	0	0	0	0
6/3/2024 14:41	11104	EGYP_T1	5	5	0	0.38	0.74	0.36	0.76	0.78	0	0	0	0	0	0
6/3/2024 14:41	48901	FOSP_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
6/3/2024 14:41	11102	EGYP_T1	1	1	0	1.5	0.2	-1.3	0	0	0	0	0	0	0	0
6/3/2024 14:41	53501	EVIL_T2	1	2	1	0.2	0.5	0.3	-2.02	-2.03	8	8	0	4600	4600	0
6/3/2024 14:41	60803	BUCK_T1	0	0	0	0	0	0	-0.23	-0.22	1	1	0	600	600	0
6/3/2024 14:42	24702	FLND_T2	0	11	11	0	0.64	0.64	1.07	1.11	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/3/2024 14:42	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 14:42	61701	ELIZ_T1	2	1	-1	1.8	2.2	0.4	0.97	1.06	0	0	0	0	0	0
6/3/2024 14:42	24701	FLND_T2	9	0	-9	0.21	0	-0.21	0	0	0	0	0	0	0	0
6/3/2024 14:42	64204	KINZ_T1	0	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0
6/3/2024 14:42	54504	ENOL_T2	0	0	0	0	0	0	-0.72	-0.68	1	1	0	600	600	0
6/3/2024 14:42	61702	ELIZ_T2	0	0	0	0	0	0	-2.11	-2.14	2	2	0	1500	1500	0
6/3/2024 14:42	64203	KINZ_T1	2	2	0	0.75	0	-0.75	0.2	-0.03	3	3	0	2100	2100	0
6/3/2024 14:43	64204	KINZ_T1	0	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0
6/3/2024 14:43	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 14:43	64203	KINZ_T1	2	2	0	0.75	0	-0.75	0.2	-0.03	3	3	0	2100	2100	0
6/3/2024 14:45	58001	WCAR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 14:45	53501	EVIL_T2	2	2	0	0.5	0.7	0.2	-1.01	-1.02	4	4	0	2300	2300	0
6/3/2024 14:45	58003	WCAR_T1	1	1	0	0.8	0.9	0.1	0.58	0.57	1	1	0	600	600	0
6/3/2024 14:46	61701	ELIZ_T1	1	1	0	2.2	2.4	0.2	0.97	1.06	0	0	0	0	0	0
6/3/2024 14:46	26401	INOR_T1	1	3	2	7.3	2.93	-4.37	1.3	1.29	0	0	0	0	0	0
6/3/2024 14:47	12703	MACU_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
6/3/2024 14:48	42902	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 14:48	42903	MIDD_T2	2	2	0	0.95	0.25	-0.7	0.61	1.15	1	1	0	1200	1200	0
6/3/2024 14:51	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 14:52	48902	FOSP_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/3/2024 14:52	20401	ASHF_T2	2	4	2	1.2	0.8	-0.4	0.36	0.39	0	0	0	0	0	0
6/3/2024 14:52	43103	SMIL_T2	0	3	3	0	0.13	0.13	-1.65	-1.62	0	0	0	0	0	0
6/3/2024 14:52	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 14:52	48901	FOSP_T2	1	2	1	0.4	0.45	0.05	-0.27	-0.27	1	1	0	600	600	0
6/3/2024 14:52	43108	SMIL_T2	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
6/3/2024 14:52	20403	ASHF_T2	3	2	-1	0.57	0	-0.57	3.4	3.52	0	0	0	0	0	0
6/3/2024 14:53	55103	WERT_T1	1	1	0	5.2	4	-1.2	0	0	0	0	0	0	0	0
6/3/2024 14:53	59101	WALK_T2	0	0	0	0	0	0	1.04	1.42	2	2	0	1200	1200	0
6/3/2024 14:53	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 14:53	55105	WERT_T1	0	0	0	0	0	0	0.39	0.39	1	1	0	900	900	0
6/3/2024 14:54	57401	SPAN_T1	0	1	1	0	0	0	-0.37	-0.47	1	1	0	600	600	0
6/3/2024 14:54	10109	ALLE_T3	5	3	-2	0.88	0	-0.88	0	0	0	0	0	0	0	0
6/3/2024 14:54	10103	ALLE_T3	1	2	1	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
6/3/2024 14:54	10205	ALLE_T3	2	2	0	0.85	0.2	-0.65	0	0	0	0	0	0	0	0
6/3/2024 14:54	62102	ELAN_T1	0	0	0	0	0	0	1.48	1.49	0	0	0	0	0	0
6/3/2024 14:54	10105	ALLE_T3	8	8	0	0.86	0.63	-0.23	0	0	0	0	0	0	0	0
6/3/2024 14:54	56802	BENV_T2	1	1	0	0.2	0.3	0.1	-0.93	-0.94	0	0	0	0	0	0
6/3/2024 14:54	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 14:55	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 14:55	20401	ASHF_T2	2	4	2	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
6/3/2024 14:55	20403	ASHF_T2	3	2	-1	0.57	0	-0.57	1.76	1.59	0	0	0	0	0	0
6/3/2024 14:56	46504	LOHA_T1	2	3	1	0.7	0.7	0	0	0	0	0	0	0	0	0
6/3/2024 14:56	46506	LOHA_T1	0	1	1	0	0.5	0.5	-0.28	-0.28	0	0	0	0	0	0
6/3/2024 14:56	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 14:56	11102	EGYP_T1	1	2	1	0.2	1.4	1.2	0.32	0.29	0	0	0	0	0	0
6/3/2024 14:56	11104	EGYP_T1	5	5	0	0.74	0.56	-0.18	0	0	0	0	0	0	0	0
6/3/2024 14:58	26401	INOR_T1	1	3	2	7.3	2.93	-4.37	1.29	1.31	0	0	0	0	0	0
6/3/2024 14:58	11102	EGYP_T1	1	2	1	0.2	1.4	1.2	0	0	0	0	0	0	0	0
6/3/2024 14:58	11104	EGYP_T1	5	5	0	0.74	0.56	-0.18	0.78	0.82	0	0	0	0	0	0
6/3/2024 14:59	11102	EGYP_T1	1	2	1	0.2	1.4	1.2	0	0	0	0	0	0	0	0
6/3/2024 14:59	11104	EGYP_T1	5	5	0	0.74	0.56	-0.18	0.78	0.82	0	0	0	0	0	0
6/3/2024 14:59	52002	LING_T2	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
6/3/2024 15:01	64902	MILL_T2	0	0	0	0	0	0	-0.61	-0.61	1	1	0	900	900	0
6/3/2024 15:01	52003	LING_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/3/2024 15:01	46102	MACI_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
6/3/2024 15:01	52001	LING_T1	0	0	0	0	0	0	0.75	0.77	0	0	0	0	0	0
6/3/2024 15:02	46802	HEPB_T1	1	1	0	0.5	0.6	0.1	0.07	0.12	0	0	0	0	0	0
6/3/2024 15:02	52002	LING_T2	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
6/3/2024 15:04	52002	LING_T2	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
6/3/2024 15:07	20403	ASHF_T2	2	0	-2	0.8	0	-0.8	1.76	1.59	0	0	0	0	0	0
6/3/2024 15:07	20401	ASHF_T2	4	4	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/3/2024 15:07	67703	WERN_T2	0	0	0	0	0	0	-0.25	-0.17	1	1	0	900	900	0
6/3/2024 15:07	20402	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/3/2024 15:07	67702	WERN_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/3/2024 15:07	67204	TEHI_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
6/3/2024 15:08	67204	TEHI_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
6/3/2024 15:09	67703	WERN_T2	0	0	0	0	0	0	-0.33	-0.41	2	2	0	1800	1800	0
6/3/2024 15:09	67702	WERN_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/3/2024 15:12	24702	FLND_T2	1	2	1	1	0.15	-0.85	1.05	0.92	1	1	0	1200	1200	0
6/3/2024 15:13	45601	WOOL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
6/3/2024 15:13	45602	WOOL_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 15:14	63602	LETO_T1	0	0	0	0	0	0	-0.39	-0.45	2	2	0	1200	1200	0
6/3/2024 15:15	48902	FOSP_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/3/2024 15:15	48901	FOSP_T2	0	0	0	0	0	0	-0.3	-0.31	1	1	0	600	600	0
6/3/2024 15:18	66902	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 15:18	66501	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/3/2024 15:18	66505	SMAN_T2	1	0	-1	0.9	0	-0.9	0.25	0.19	4	4	0	2300	2300	0
6/3/2024 15:18	66901	SHIL_T2	0	1	1	0	0.2	0.2	-0.45	-0.46	0	0	0	0	0	0
6/3/2024 15:19	46801	HEPB_T2	2	0	-2	0	0.1	-0.1	0	0	0	0	0	0	0	0
6/3/2024 15:19	46803	HEPB_T2	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
6/3/2024 15:21	66505	SMAN_T2	1	0	-1	0.9	0	-0.9	0.25	0.19	4	4	0	2300	2300	0
6/3/2024 15:21	66501	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/3/2024 15:24	44801	EDAN_T2	2	3	1	0.75	1.05	0.3	0.82	0.85	0	0	0	0	0	0
6/3/2024 15:25	44505	HAMI_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
6/3/2024 15:25	44502	HAMI_T2	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
6/3/2024 15:26	45501	DERR_T2	3	4	1	0.87	0.9	0.03	1.81	1.76	4	4	0	3600	3600	0
6/3/2024 15:26	45502	DERR_T2	23	14	-9	0.33	0	-0.33	0	0	0	0	0	0	0	0
6/3/2024 15:27	64203	KINZ_T1	1	1	0	0.5	0.4	-0.1	0.39	0.35	3	3	0	2100	2100	0
6/3/2024 15:27	64204	KINZ_T1	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
6/3/2024 15:27	64202	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/3/2024 15:27	44505	HAMI_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
6/3/2024 15:27	44502	HAMI_T2	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
6/3/2024 15:27	45501	DERR_T2	3	4	1	0.87	0.9	0.03	0.9	0.88	2	2	0	1800	1800	0
6/3/2024 15:27	45502	DERR_T2	23	14	-9	0.33	0	-0.33	0	0	0	0	0	0	0	0
6/3/2024 15:28	64204	KINZ_T1	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
6/3/2024 15:28	64202	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/3/2024 15:28	64203	KINZ_T1	1	1	0	0.5	0.4	-0.1	0.39	0.35	3	3	0	2100	2100	0
6/3/2024 15:29	52004	LING_T2	0	0	0	0	0	0	0.4	0.47	0	0	0	0	0	0
6/3/2024 15:29	52002	LING_T2	0	0	0	0	0	0	0.64	0.71	0	0	0	0	0	0
6/3/2024 15:30	64902	MILL_T2	0	0	0	0	0	0	-0.57	-0.59	1	1	0	900	900	0
6/3/2024 15:31	50502	MECH_T1	1	1	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
6/3/2024 15:31	50505	MECH_T1	0	0	0	0	0	0	-1.6	-1.58	0	0	0	0	0	0
6/3/2024 15:31	26401	INOR_T1	1	1	0	7.8	7.6	-0.2	0	0	0	0	0	0	0	0
6/3/2024 15:31	26402	INOR_T1	1	0	-1	0.4	0	-0.4	-1.61	-1.56	1	1	0	600	600	0
6/3/2024 15:32	64204	KINZ_T1	1	1	0	0.6	1.3	0.7	0	0	0	0	0	0	0	0
6/3/2024 15:32	64203	KINZ_T1	1	1	0	0.4	0.1	-0.3	0.39	0.35	3	3	0	2100	2100	0
6/3/2024 15:33	52002	LING_T2	0	0	0	0	0	0	0.64	0.71	0	0	0	0	0	0
6/3/2024 15:34	42903	MIDD_T2	0	0	0	0	0	0	0.9	1.23	1	1	0	1200	1200	0
6/3/2024 15:34	42902	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 15:35	64902	MILL_T2	0	0	0	0	0	0	-0.57	-0.59	1	1	0	900	900	0
6/3/2024 15:37	64101	REFR_T1	0	0	0	0	0	0	1.72	1.76	0	0	0	0	0	0
6/3/2024 15:38	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 15:39	67702	WERN_T2	1	0	-1	0.6	0	-0.6	0.25	0.23	0	0	0	0	0	0
6/3/2024 15:39	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 15:40	46504	LOHA_T1	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
6/3/2024 15:40	46506	LOHA_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
6/3/2024 15:41	42501	ALTA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/3/2024 15:41	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 15:41	46504	LOHA_T1	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
6/3/2024 15:41	42503	ALTA_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
6/3/2024 15:41	46506	LOHA_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
6/3/2024 15:42	45602	WOOL_T1	3	1	-2	0.57	0.7	0.13	0	0	0	0	0	0	0	0
6/3/2024 15:42	45601	WOOL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
6/3/2024 15:43	46504	LOHA_T1	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
6/3/2024 15:43	46506	LOHA_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
6/3/2024 15:44	46504	LOHA_T1	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
6/3/2024 15:44	46506	LOHA_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
6/3/2024 15:45	52004	LING_T2	0	0	0	0	0	0	0.47	0.55	0	0	0	0	0	0
6/3/2024 15:46	57304	MOAL_T2	0	1	1	0	0.1	0.1	0.15	0.1	0	0	0	0	0	0
6/3/2024 15:46	57303	MOAL_T2	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
6/3/2024 15:49	41903	REED_T1	0	1	1	0	0	0	0.99	1.2	2	2	0	2400	2400	0
6/3/2024 15:49	41902	REED_T1	9	13	4	0.26	0.6	0.34	0	0	0	0	0	0	0	0
6/3/2024 15:50	67605	WARW_T1	1	1	0	0.6	0.2	-0.4	-0.81	-0.81	0	0	0	0	0	0
6/3/2024 15:52	64101	REFR_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
6/3/2024 15:53	64203	KINZ_T1	1	1	0	0.4	0	-0.4	0.27	0.22	3	3	0	2100	2100	0
6/3/2024 15:53	64101	REFR_T1	0	0	0	0	0	0	0.86	0.88	0	0	0	0	0	0
6/3/2024 15:53	64204	KINZ_T1	1	1	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
6/3/2024 15:53	49804	UNIV_T1	0	0	0	0	0	0	1.19	1.18	0	0	0	0	0	0
6/3/2024 15:54	14801	TREI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 15:54	67605	WARW_T1	1	1	0	0.6	0.2	-0.4	-0.81	-0.75	0	0	0	0	0	0
6/3/2024 15:54	64204	KINZ_T1	1	1	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
6/3/2024 15:54	64203	KINZ_T1	1	1	0	0.4	0	-0.4	0.27	0.22	3	3	0	2100	2100	0
6/3/2024 15:54	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 15:54	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 15:54	14802	TREI_T2	0	0	0	0	0	0	1.12	1.09	0	0	0	0	0	0
6/3/2024 15:56	61701	ELIZ_T1	1	1	0	2.3	2.2	-0.1	1.1	0.95	0	0	0	0	0	0
6/3/2024 16:00	64801	MONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/3/2024 16:00	64802	MONE_T2	1	0	-1	0.1	0	-0.1	0.37	0.35	0	0	0	0	0	0
6/3/2024 16:00	48902	FOSP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 16:00	52002	LING_T2	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
6/3/2024 16:00	48901	FOSP_T2	0	0	0	0	0	0	-0.3	-0.29	1	1	0	600	600	0
6/3/2024 16:07	61101	BERK_T5	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/3/2024 16:07	61102	BERK_T5	0	0	0	0	0	0	-0.35	-0.45	4	4	0	2400	2400	0
6/3/2024 16:08	56801	BENV_T1	0	3	3	0	0.13	0.13	-0.71	-0.81	2	2	0	1200	1200	0
6/3/2024 16:08	56803	BENV_T1	6	4	-2	1.23	0.25	-0.98	0	0	0	0	0	0	0	0
6/3/2024 16:09	13503	MCMI_T2	0	1	1	0	0.4	0.4	0.17	0.17	0	0	0	0	0	0
6/3/2024 16:09	56803	BENV_T1	6	4	-2	1.23	0.25	-0.98	0	0	0	0	0	0	0	0
6/3/2024 16:09	56801	BENV_T1	0	3	3	0	0.13	0.13	-2.84	-3.22	8	8	0	4800	4800	0
6/3/2024 16:09	40201	BEGA_T2	0	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0
6/3/2024 16:10	56801	BENV_T1	0	3	3	0	0.13	0.13	-0.71	-0.81	2	2	0	1200	1200	0
6/3/2024 16:10	40201	BEGA_T2	0	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0
6/3/2024 16:10	56803	BENV_T1	6	4	-2	1.23	0.25	-0.98	0	0	0	0	0	0	0	0
6/3/2024 16:10	29402	BELT_T1	3	1	-2	3.3	9.3	6	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/3/2024 16:10	29401	BELT_T1	40	45	5	0.22	0.24	0.02	0	0	0	0	0	0	0	0
6/3/2024 16:12	56801	BENV_T1	0	3	3	0	0.13	0.13	-2.13	-2.42	6	6	0	3600	3600	0
6/3/2024 16:12	40201	BEGA_T2	0	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0
6/3/2024 16:12	56803	BENV_T1	6	4	-2	1.23	0.25	-0.98	0	0	0	0	0	0	0	0
6/3/2024 16:13	64203	KINZ_T1	1	1	0	0.1	0	-0.1	0.22	0.22	3	3	0	2100	2100	0
6/3/2024 16:13	64204	KINZ_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/3/2024 16:14	64203	KINZ_T1	1	1	0	0.1	0	-0.1	0.22	0.22	3	3	0	2100	2100	0
6/3/2024 16:14	67804	WLAN_T1	0	4	4	0	0.27	0.27	0	0	0	0	0	0	0	0
6/3/2024 16:14	64204	KINZ_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/3/2024 16:14	67801	WLAN_T1	0	1	1	0	0	0	0.38	0.46	0	0	0	0	0	0
6/3/2024 16:15	52402	GRPA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/3/2024 16:15	52401	GRPA_T2	1	3	2	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/3/2024 16:15	52403	GRPA_T2	4	0	-4	0.38	0	-0.38	0.5	-0.1	0	0	0	0	0	0
6/3/2024 16:15	64202	KINZ_T1	0	0	0	0	0	0	1.68	1.6	0	0	0	0	0	0
6/3/2024 16:15	64203	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 16:19	43103	SMIL_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/3/2024 16:19	43104	SMIL_T2	0	0	0	0	0	0	-1.33	-1.27	3	3	0	900	900	0
6/3/2024 16:21	43104	SMIL_T2	0	0	0	0	0	0	-0.44	-0.42	1	1	0	300	300	0
6/3/2024 16:21	43103	SMIL_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/3/2024 16:24	56801	BENV_T1	3	0	-3	0.13	0	-0.13	-1.61	-1.41	4	4	0	2400	2400	0
6/3/2024 16:24	56803	BENV_T1	2	6	4	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
6/3/2024 16:26	45602	WOOL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 16:28	56801	BENV_T1	3	0	-3	0.13	0	-0.13	-0.81	-0.71	2	2	0	1200	1200	0
6/3/2024 16:28	56803	BENV_T1	2	6	4	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
6/3/2024 16:29	41801	GOCI_T2	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
6/3/2024 16:30	64203	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/3/2024 16:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 16:30	64204	KINZ_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/3/2024 16:30	64202	KINZ_T1	0	0	0	0	0	0	1.6	1.61	0	0	0	0	0	0
6/3/2024 16:31	52002	LING_T2	0	10	10	0	0	0	0.73	0.76	0	0	0	0	0	0
6/3/2024 16:32	66901	SHIL_T2	0	0	0	0	0	0	-0.37	-0.43	0	0	0	0	0	0
6/3/2024 16:33	64203	KINZ_T1	1	0	-1	0.5	0	-0.5	0.22	-0.09	3	3	0	2100	2100	0
6/3/2024 16:33	65901	SAKR_T2	1	1	0	6.1	6.4	0.3	0	0	0	0	0	0	0	0
6/3/2024 16:33	64204	KINZ_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/3/2024 16:33	65902	SAKR_T2	0	1	1	0	0	0	-0.61	-0.65	2	2	0	1200	1200	0
6/3/2024 16:34	64204	KINZ_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/3/2024 16:34	64203	KINZ_T1	1	0	-1	0.5	0	-0.5	0.22	-0.09	3	3	0	2100	2100	0
6/3/2024 16:36	12606	MACA_T1	2	19	17	0.15	0.33	0.18	0	0	0	0	0	0	0	0
6/3/2024 16:36	42501	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 16:36	42503	ALTA_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
6/3/2024 16:36	12604	MACA_T1	0	0	0	0	0	0	0.95	0.95	0	0	0	0	0	0
6/3/2024 16:38	42201	SHEN_T2	0	0	0	0	0	0	0.3	0.29	1	1	0	600	600	0
6/3/2024 16:40	55103	WERT_T1	1	1	0	4.5	0	-4.5	0	0	0	0	0	0	0	0
6/3/2024 16:40	29401	BELT_T1	40	0	-40	0.24	0	-0.24	0	0	1	1	0	900	900	0
6/3/2024 16:40	55101	WERT_T1	0	0	0	0	0	0	-2.09	-2.08	4	4	0	3300	3300	0
6/3/2024 16:40	46206	DANV_T2	4	4	0	1.43	1.23	-0.2	0	0	0	0	0	0	0	0
6/3/2024 16:40	46203	DANV_T2	0	0	0	0	0	0	-0.1	-0.18	0	0	0	0	0	0
6/3/2024 16:40	29402	BELT_T1	1	1	0	9.2	6.7	-2.5	0	0	0	0	0	0	0	0
6/3/2024 16:40	46204	DANV_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/3/2024 16:44	29402	BELT_T1	1	1	0	9.2	6.7	-2.5	0	0	0	0	0	0	0	0
6/3/2024 16:44	46203	DANV_T2	0	0	0	0	0	0	-0.1	-0.18	0	0	0	0	0	0
6/3/2024 16:44	29401	BELT_T1	40	0	-40	0.24	0	-0.24	0	0	2	2	0	1800	1800	0
6/3/2024 16:44	46206	DANV_T2	4	4	0	1.43	1.23	-0.2	0	0	0	0	0	0	0	0
6/3/2024 16:44	46204	DANV_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/3/2024 16:45	46203	DANV_T2	0	0	0	0	0	0	-0.1	-0.18	0	0	0	0	0	0
6/3/2024 16:45	46206	DANV_T2	4	4	0	1.23	1.4	0.17	0	0	0	0	0	0	0	0
6/3/2024 16:45	46204	DANV_T2	2	4	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/3/2024 16:45	48901	FOSP_T2	0	0	0	0	0	0	-0.28	-0.32	1	1	0	600	600	0
6/3/2024 16:46	64802	MONE_T2	0	1	1	0	0	0	0.37	0.35	0	0	0	0	0	0
6/3/2024 16:47	65503	MOJO_T2	0	0	0	0	0	0	-0.27	-0.19	1	1	0	900	900	0
6/3/2024 16:48	60502	NMAN_T2	0	0	0	0	0	0	0.47	0.33	0	0	0	0	0	0
6/3/2024 16:48	60501	NMAN_T2	3	3	0	3.4	2.53	-0.87	0	0	0	0	0	0	0	0
6/3/2024 16:49	60502	NMAN_T2	0	0	0	0	0	0	0.47	0.33	0	0	0	0	0	0
6/3/2024 16:49	52002	LING_T2	0	10	10	0	0.68	0.68	0.76	0.78	0	0	0	0	0	0
6/3/2024 16:49	60501	NMAN_T2	3	3	0	3.4	2.53	-0.87	0	0	0	0	0	0	0	0
6/3/2024 16:50	65503	MOJO_T2	0	0	0	0	0	0	-0.27	-0.19	1	1	0	900	900	0
6/3/2024 16:53	64203	KINZ_T1	0	0	0	0	0	0	0.02	0.53	3	2	-1	2100	1800	-300
6/3/2024 16:53	64204	KINZ_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/3/2024 16:53	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 16:54	64203	KINZ_T1	0	0	0	0	0	0	0.02	0.53	2	1	-1	1800	600	-1200
6/3/2024 16:54	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 16:54	40902	JESH_T1	0	0	0	0	0	0	-1.17	-1.17	2	2	0	1200	1200	0
6/3/2024 16:54	40901	JESH_T1	1	2	1	1.4	1.6	0.2	0	0	0	0	0	0	0	0
6/3/2024 16:54	64204	KINZ_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/3/2024 17:00	41204	KENM_T2	0	0	0	0	0	0	0.95	0.96	0	0	0	0	0	0
6/3/2024 17:00	52401	GRPA_T2	10	9	-1	0.5	0.36	-0.14	-0.27	-0.28	0	0	0	0	0	0
6/3/2024 17:00	52403	GRPA_T2	4	6	2	0.63	0.75	0.12	0	0	0	0	0	0	0	0
6/3/2024 17:00	52402	GRPA_T2	2	5	3	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/3/2024 17:06	43104	SMIL_T2	0	0	0	0	0	0	-0.41	-0.42	1	1	0	300	300	0
6/3/2024 17:06	64101	REFR_T1	0	0	0	0	0	0	0.39	-0.1	0	0	0	0	0	0
6/3/2024 17:07	43104	SMIL_T2	0	0	0	0	0	0	-0.81	-0.84	2	2	0	600	600	0
6/3/2024 17:08	56803	BENV_T1	2	3	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
6/3/2024 17:08	56801	BENV_T1	9	7	-2	0.96	1.09	0.13	-1.35	-1.47	4	4	0	2400	2400	0
6/3/2024 17:09	43104	SMIL_T2	0	0	0	0	0	0	-0.42	-0.41	1	1	0	300	300	0
6/3/2024 17:10	56803	BENV_T1	2	3	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
6/3/2024 17:10	56801	BENV_T1	9	7	-2	0.96	1.09	0.13	-1.35	-1.47	4	4	0	2400	2400	0
6/3/2024 17:11	46203	DANV_T2	0	0	0	0	0	0	-0.26	-0.38	0	0	0	0	0	0
6/3/2024 17:11	56801	BENV_T1	9	7	-2	0.96	1.09	0.13	-0.68	-0.73	2	2	0	1200	1200	0
6/3/2024 17:11	56803	BENV_T1	2	3	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
6/3/2024 17:11	46204	DANV_T2	1	5	4	0.5	0.73	0.23	0	0	0	0	0	0	0	0
6/3/2024 17:11	46206	DANV_T2	4	6	2	1.4	1.43	0.03	0	0	0	0	0	0	0	0
6/3/2024 17:12	46204	DANV_T2	1	5	4	0.5	0.73	0.23	0	0	0	0	0	0	0	0
6/3/2024 17:12	46203	DANV_T2	0	0	0	0	0	0	-0.13	-0.19	0	0	0	0	0	0
6/3/2024 17:12	56801	BENV_T1	9	7	-2	0.96	1.09	0.13	-1.35	-1.47	4	4	0	2400	2400	0
6/3/2024 17:12	46206	DANV_T2	4	6	2	1.4	1.43	0.03	0	0	0	0	0	0	0	0
6/3/2024 17:12	56803	BENV_T1	2	3	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
6/3/2024 17:13	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 17:13	64204	KINZ_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/3/2024 17:13	22602	KIMB_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
6/3/2024 17:13	64203	KINZ_T1	0	0	0	0	0	0	0.53	0.45	1	1	0	600	600	0
6/3/2024 17:14	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 17:14	64204	KINZ_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/3/2024 17:14	64203	KINZ_T1	0	0	0	0	0	0	0.53	0.45	1	1	0	600	600	0
6/3/2024 17:16	46101	MACI_T2	0	0	0	0	0	0	-0.4	-0.48	1	1	0	1200	1200	0
6/3/2024 17:17	47101	MARL_T1	16	20	4	0.8	0	-0.8	0.22	0.23	0	0	0	0	0	0
6/3/2024 17:18	47101	MARL_T1	16	20	4	0.8	0	-0.8	0.22	0.23	0	0	0	0	0	0
6/3/2024 17:22	58006	WCAR_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
6/3/2024 17:22	58002	WCAR_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
6/3/2024 17:26	29401	BELT_T1	31	25	-6	0.21	0.19	-0.02	0	0	1	1	0	900	900	0
6/3/2024 17:26	29402	BELT_T1	1	1	0	9	9	0	0	0	0	0	0	0	0	0
6/3/2024 17:30	61701	ELIZ_T1	1	1	0	2	2.2	0.2	1.12	1.05	0	0	0	0	0	0
6/3/2024 17:31	53901	HALI_T2	0	0	0	0	0	0	-0.98	-0.95	0	0	0	0	0	0
6/3/2024 17:31	53903	HALI_T2	2	2	0	1.35	1.5	0.15	0	0	0	0	0	0	0	0
6/3/2024 17:31	53902	HALI_T2	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
6/3/2024 17:33	64204	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/3/2024 17:33	64203	KINZ_T1	0	0	0	0	0	0	0.45	0.46	1	1	0	600	600	0
6/3/2024 17:34	64204	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/3/2024 17:34	64203	KINZ_T1	0	0	0	0	0	0	0.45	0.46	1	1	0	600	600	0
6/3/2024 17:35	42204	SHEN_T2	0	0	0	0	0	0	0	0.03	1	1	0	1200	1200	0
6/3/2024 17:37	67602	WARW_T2	1	0	-1	0.2	0	-0.2	0.4	0.35	2	2	0	1500	1500	0
6/3/2024 17:38	43504	WWIL_T1	0	0	0	0	0	0	1.17	1.17	0	0	0	0	0	0
6/3/2024 17:38	43506	WWIL_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
6/3/2024 17:38	43505	WWIL_T1	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
6/3/2024 17:39	40502	CRES_T2	9	12	3	0.31	0.22	-0.09	-0.9	-0.75	0	0	0	0	0	0
6/3/2024 17:39	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 17:40	40502	CRES_T2	9	12	3	0.31	0.22	-0.09	-0.45	-0.37	0	0	0	0	0	0
6/3/2024 17:40	44502	HAMI_T2	1	1	0	2.1	2.4	0.3	-0.46	-0.48	0	0	0	0	0	0
6/3/2024 17:40	67602	WARW_T2	1	0	-1	0.2	0	-0.2	0.35	0.37	2	2	0	1500	1500	0
6/3/2024 17:40	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 17:41	40502	CRES_T2	9	12	3	0.31	0.22	-0.09	-0.9	-0.75	0	0	0	0	0	0
6/3/2024 17:41	61701	ELIZ_T1	1	1	0	2	2.2	0.2	1.05	1.01	0	0	0	0	0	0
6/3/2024 17:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 17:42	40502	CRES_T2	9	12	3	0.31	0.22	-0.09	-0.9	-0.75	0	0	0	0	0	0
6/3/2024 17:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 17:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 17:43	40502	CRES_T2	9	12	3	0.31	0.22	-0.09	-0.45	-0.37	0	0	0	0	0	0
6/3/2024 17:43	40504	CRES_T1	0	0	0	0	0	0	-1.34	-1.32	0	0	0	0	0	0
6/3/2024 17:43	40505	CRES_T1	3	4	1	4.1	4.6	0.5	0	0	0	0	0	0	0	0
6/3/2024 17:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 17:44	24105	EHAZ_T1	4	4	0	5.58	5.5	-0.08	0	0	0	0	0	0	0	0
6/3/2024 17:44	40502	CRES_T2	9	12	3	0.31	0.22	-0.09	-1.8	-1.5	0	0	0	0	0	0
6/3/2024 17:44	24102	EHAZ_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
6/3/2024 17:45	40504	CRES_T1	0	0	0	0	0	0	-1.34	-1.32	0	0	0	0	0	0
6/3/2024 17:45	40505	CRES_T1	4	4	0	3.1	4.63	1.53	0	0	0	0	0	0	0	0
6/3/2024 17:45	40502	CRES_T2	10	2	-8	0.24	0.15	-0.09	-0.45	-0.37	0	0	0	0	0	0
6/3/2024 17:45	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 17:45	63403	HONY_T2	4	7	3	0.8	0.8	0	-0.61	-0.66	1	1	0	600	600	0
6/3/2024 17:53	64203	KINZ_T1	0	0	0	0	0	0	0.45	0.38	1	1	0	600	600	0
6/3/2024 17:53	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/3/2024 17:54	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/3/2024 17:54	64203	KINZ_T1	0	0	0	0	0	0	0.45	0.38	1	1	0	600	600	0
6/3/2024 17:57	29401	BELT_T1	19	31	12	0.18	0.2	0.02	0	0	1	1	0	900	900	0
6/3/2024 17:57	29402	BELT_T1	1	1	0	9	9	0	0	0	0	0	0	0	0	0
6/3/2024 18:04	66505	SMAN_T2	1	1	0	4.4	0	-4.4	0	0	0	0	0	0	0	0
6/3/2024 18:04	66503	SMAN_T2	0	0	0	0	0	0	1.06	1.02	0	0	0	0	0	0
6/3/2024 18:04	41901	REED_T1	5	6	1	0.16	0.22	0.06	0	0	0	0	0	0	0	0
6/3/2024 18:04	41902	REED_T1	10	27	17	0.43	0.42	-0.01	1.46	1.47	0	0	0	0	0	0
6/3/2024 18:10	60101	COCA_T1	0	0	0	0	0	0	1.08	1.11	0	0	0	0	0	0
6/3/2024 18:11	60101	COCA_T1	0	0	0	0	0	0	1.08	1.11	0	0	0	0	0	0
6/3/2024 18:11	29401	BELT_T1	17	36	19	0.15	0.22	0.07	0	0	0	0	0	0	0	0
6/3/2024 18:11	60803	BUCK_T1	0	0	0	0	0	0	-0.23	-0.25	1	1	0	600	600	0
6/3/2024 18:11	29402	BELT_T1	1	1	0	8.8	9	0.2	0	0	0	0	0	0	0	0
6/3/2024 18:13	63305	GREE_T1	0	2	2	0	0.2	0.2	-1.71	-1.71	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/3/2024 18:16	63305	GREE_T1	2	2	0	0.2	0.1	-0.1	-1.71	-1.71	1	1	0	900	900	0
6/3/2024 18:17	54203	PENN_T1	5	18	13	1.02	0.41	-0.61	0.28	0.29	1	1	0	600	600	0
6/3/2024 18:17	54201	PENN_T1	3	5	2	0.8	0.72	-0.08	0	0	0	0	0	0	0	0
6/3/2024 18:18	13503	MCMI_T2	150	0	-150	0.26	0	-0.26	-0.73	-0.73	0	0	0	0	0	0
6/3/2024 18:20	13503	MCMI_T2	150	0	-150	0.26	0	-0.26	-0.73	-0.73	0	0	0	0	0	0
6/3/2024 18:25	26601	BROO_T1	0	0	0	0	0	0	0.03	0.03	1	1	0	600	600	0
6/3/2024 18:26	16006	DORN_T2	6	8	2	0.77	2.3	1.53	-0.97	0.29	1	1	0	1200	1200	0
6/3/2024 18:26	26603	BROO_T1	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
6/3/2024 18:28	26603	BROO_T1	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
6/3/2024 18:28	16006	DORN_T2	6	8	2	0.77	2.3	1.53	-0.97	0.29	1	1	0	1200	1200	0
6/3/2024 18:30	60802	BUCK_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
6/3/2024 18:36	58102	NEKI_T1	1	1	0	1.8	1.9	0.1	-1.14	-1.13	1	1	0	1200	1200	0
6/3/2024 18:37	67103	SPRI_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
6/3/2024 18:39	29402	BELT_T1	1	1	0	8.6	9.2	0.6	0	0	0	0	0	0	0	0
6/3/2024 18:39	29401	BELT_T1	34	52	18	0.22	0.31	0.09	0	0	1	1	0	900	900	0
6/3/2024 18:43	40802	EXCH_T2	0	3	3	0	0.1	0.1	-0.13	-0.13	0	0	0	0	0	0
6/3/2024 18:43	40801	EXCH_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
6/3/2024 18:48	65604	QVIL_T2	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/3/2024 18:48	65603	QVIL_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
6/3/2024 18:49	51004	NHAR_T1	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
6/3/2024 18:49	14403	SSLA_T1	0	0	0	0	0	0	1.43	1.36	0	0	0	0	0	0
6/3/2024 18:49	51002	NHAR_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
6/3/2024 18:49	51003	NHAR_T1	0	0	0	0	0	0	-1.05	-0.96	1	1	0	1200	1200	0
6/3/2024 18:49	14404	SSLA_T1	1	1	0	4.2	4.5	0.3	0	0	0	0	0	0	0	0
6/3/2024 18:50	65804	RTWN_T1	0	0	0	0	0	0	1.45	1.39	2	2	0	1200	1200	0
6/3/2024 18:50	14404	SSLA_T1	1	1	0	4.2	4.5	0.3	0	0	0	0	0	0	0	0
6/3/2024 18:50	14403	SSLA_T1	0	0	0	0	0	0	1.43	1.36	0	0	0	0	0	0
6/3/2024 18:52	24901	WHHA_T1	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
6/3/2024 18:52	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 18:54	10705	CATA_T2	0	0	0	0	0	0	-1.34	-1.35	1	1	0	900	900	0
6/3/2024 18:55	59101	WALK_T2	0	0	0	0	0	0	1	0.82	2	2	0	1200	1200	0
6/3/2024 19:02	54501	ENOL_T2	0	0	0	0	0	0	-0.02	0	1	1	0	600	600	0
6/3/2024 19:03	13501	MCMI_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
6/3/2024 19:07	10103	ALLE_T3	6	2	-4	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
6/3/2024 19:07	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 19:07	10105	ALLE_T3	7	15	8	0.56	1.27	0.71	0	0	0	0	0	0	0	0
6/3/2024 19:07	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
6/3/2024 19:07	10205	ALLE_T3	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
6/3/2024 19:10	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 19:10	10204	ALLE_T2	2	2	0	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
6/3/2024 19:10	10102	ALLE_T2	1	1	0	7.4	7.1	-0.3	0	0	0	0	0	0	0	0
6/3/2024 19:15	12606	MACA_T1	16	17	1	1.84	0	-1.84	0	0	0	0	0	0	0	0
6/3/2024 19:15	12601	MACA_T1	0	1	1	0	0	0	1.38	1.34	0	0	0	0	0	0
6/3/2024 19:15	64701	LITI_T1	10	7	-3	0.89	0	-0.89	0.88	0.71	0	0	0	0	0	0
6/3/2024 19:22	45302	WBER_T2	0	0	0	0	0	0	1.07	1.07	0	0	0	0	0	0
6/3/2024 19:24	24901	WHHA_T1	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
6/3/2024 19:24	14702	TREX_T2	0	0	0	0	0	0	1.46	1.44	0	0	0	0	0	0
6/3/2024 19:25	20401	ASHF_T2	4	4	0	0.48	0.95	0.47	0	0	0	0	0	0	0	0
6/3/2024 19:25	46903	MNTG_T2	8	13	5	0.13	0.12	-0.01	0.12	0.15	1	1	0	600	600	0
6/3/2024 19:25	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 19:25	45302	WBER_T2	0	0	0	0	0	0	1.07	1.08	0	0	0	0	0	0
6/3/2024 19:25	20403	ASHF_T2	0	0	0	0	0	0	0.72	0.69	0	0	0	0	0	0
6/3/2024 19:29	46506	LOHA_T1	0	0	0	0	0	0	-0.19	-0.12	0	0	0	0	0	0
6/3/2024 19:30	46506	LOHA_T1	0	0	0	0	0	0	-0.19	-0.12	0	0	0	0	0	0
6/3/2024 19:32	52004	LING_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
6/3/2024 19:43	10707	CATA_T2	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
6/3/2024 19:50	55001	NEWP_T1	0	1	1	0	0	0	0.23	0.27	0	0	0	0	0	0
6/3/2024 19:50	55002	NEWP_T1	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/3/2024 19:58	52403	GRPA_T2	29	15	-14	0.66	0.44	-0.22	-0.12	-0.2	0	0	0	0	0	0
6/3/2024 19:58	52402	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
6/3/2024 19:59	62605	ENGL_T1	0	0	0	0	0	0	-0.76	-0.74	0	0	0	0	0	0
6/3/2024 20:02	52501	PROG_T1	0	0	0	0	0	0	0.72	0.99	1	1	0	300	300	0
6/3/2024 20:07	40101	HUNT_T2	0	0	0	0	0	0	-0.54	-0.59	0	0	0	0	0	0
6/3/2024 20:13	46206	DANV_T2	26	20	-6	0.62	1.01	0.39	7.23	7.04	2	2	0	2400	2400	0
6/3/2024 20:13	46204	DANV_T2	5	7	2	0.2	0.2	0	0	0	0	0	0	0	0	0
6/3/2024 20:16	55002	NEWP_T1	2	2	0	0.4	1	0.6	0	0	0	0	0	0	0	0
6/3/2024 20:16	55001	NEWP_T1	1	1	0	0.3	0	-0.3	0.25	0.25	0	0	0	0	0	0
6/3/2024 20:18	57303	MOAL_T2	1	1	0	7.5	7.2	-0.3	0	0	0	0	0	0	0	0
6/3/2024 20:18	57306	MOAL_T2	0	0	0	0	0	0	-2.63	-2.67	1	1	0	1200	1200	0
6/3/2024 20:21	61701	ELIZ_T1	1	1	0	2.6	3.2	0.6	0.94	0.93	0	0	0	0	0	0
6/3/2024 20:22	46206	DANV_T2	18	13	-5	0.71	1.5	0.79	3.62	3.52	1	1	0	1200	1200	0
6/3/2024 20:22	46204	DANV_T2	5	6	1	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
6/3/2024 20:24	56802	BENV_T2	0	4	4	0	0.23	0.23	-0.96	-0.97	0	0	0	0	0	0
6/3/2024 20:35	13501	MCMI_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
6/3/2024 20:54	66703	STRA_T1	2	4	2	0.1	0.25	0.15	0.13	0.03	0	0	0	0	0	0
6/3/2024 20:56	45501	DERR_T2	0	0	0	0	0	0	0.7	0.51	2	2	0	1800	1800	0
6/3/2024 21:00	40101	HUNT_T2	2	4	2	0.2	0.1	-0.1	-0.52	-0.56	0	0	0	0	0	0
6/3/2024 21:03	64802	MONE_T2	0	7	7	0	0.26	0.26	0.31	0.29	0	0	0	0	0	0
6/3/2024 21:03	64801	MONE_T2	0	10	10	0	0.17	0.17	0	0	0	0	0	0	0	0
6/3/2024 21:06	54001	SDLE_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
6/3/2024 21:07	54001	SDLE_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
6/3/2024 21:08	54001	SDLE_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
6/3/2024 21:09	54001	SDLE_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
6/3/2024 21:22	44301	BEAV_T2	0	1	1	0	0.4	0.4	0.55	0.55	1	1	0	600	600	0
6/3/2024 21:23	43201	MVIL_T2	0	0	0	0	0	0	-1.21	-1.23	0	0	0	0	0	0
6/3/2024 21:25	67503	WEWI_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
6/3/2024 21:26	44301	BEAV_T2	0	1	1	0	0.4	0.4	0.55	0.43	1	1	0	600	600	0
6/3/2024 21:27	63305	GREE_T1	10	14	4	0.27	0.34	0.07	0	0	0	0	0	0	0	0
6/3/2024 21:27	63306	GREE_T1	0	0	0	0	0	0	-1.88	-1.94	1	1	0	900	900	0
6/3/2024 21:28	65205	PRIN_T1	1	1	0	1.7	1.1	-0.6	0	0	0	0	0	0	0	0
6/3/2024 21:39	67702	WERN_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
6/3/2024 21:46	45501	DERR_T2	0	0	0	0	0	0	0.04	-0.15	2	2	0	1800	1800	0
6/3/2024 22:00	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:05	66503	SMAN_T2	0	0	0	0	0	0	0.79	0.8	0	0	0	0	0	0
6/3/2024 22:05	66505	SMAN_T2	3	3	0	0.43	0.47	0.04	0	0	0	0	0	0	0	0
6/3/2024 22:06	14601	SWHI_T1	0	0	0	0	0	0	-0.58	-0.57	0	0	0	0	0	0
6/3/2024 22:09	42802	SELI_T1	0	0	0	0	0	0	-1.01	-1.05	1	0	-1	900	0	-900
6/3/2024 22:10	16302	ALPA_T2	0	0	0	0	0	0	1.98	1.97	0	0	0	0	0	0
6/3/2024 22:12	42802	SELI_T1	0	0	0	0	0	0	-1.01	-1.05	0	0	0	0	0	0
6/3/2024 22:14	61102	BERK_T5	0	0	0	0	0	0	0	0.01	2	2	0	1200	1200	0
6/3/2024 22:14	61701	ELIZ_T1	1	1	0	4.3	3.4	-0.9	0.65	0.72	0	0	0	0	0	0
6/3/2024 22:15	16302	ALPA_T2	0	0	0	0	0	0	0.99	0.99	0	0	0	0	0	0
6/3/2024 22:16	47001	HUGH_T2	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
6/3/2024 22:17	45702	LIND_T2	1	1	0	0.1	0.1	0	-0.33	-0.36	0	0	0	0	0	0
6/3/2024 22:19	47001	HUGH_T2	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
6/3/2024 22:19	23202	HIRU_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
6/3/2024 22:20	47401	PENS_T1	0	0	0	0	0	0	1.05	0.99	0	0	0	0	0	0
6/3/2024 22:21	62605	ENGL_T1	0	0	0	0	0	0	-0.91	-0.97	0	0	0	0	0	0
6/3/2024 22:21	45702	LIND_T2	1	1	0	0.1	0.1	0	-0.33	-0.36	0	0	0	0	0	0
6/3/2024 22:22	17002	RIRO_T2	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
6/3/2024 22:22	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
6/3/2024 22:22	29402	BELT_T1	1	1	0	6	6.4	0.4	0	0	0	0	0	0	0	0
6/3/2024 22:23	29402	BELT_T1	1	1	0	6	6.4	0.4	0	0	0	0	0	0	0	0
6/3/2024 22:23	41901	REED_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/3/2024 22:23	41902	REED_T1	0	0	0	0	0	0	0.31	1.11	0	0	0	0	0	0
6/3/2024 22:24	46903	MNTG_T2	1	0	-1	0.1	0	-0.1	0.07	-0.02	1	1	0	600	600	0
6/3/2024 22:24	13905	SEID_T1	0	0	0	0	0	0	0.58	0.54	0	0	0	0	0	0
6/3/2024 22:24	11104	EGYP_T1	0	0	0	0	0	0	0.47	0.4	0	0	0	0	0	0
6/3/2024 22:24	20401	ASHF_T2	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
6/3/2024 22:24	64902	MILL_T2	0	0	0	0	0	0	-0.28	-0.31	1	1	0	900	900	0
6/3/2024 22:25	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/3/2024 22:25	29402	BELT_T1	1	1	0	6	6.4	0.4	0	0	0	0	0	0	0	0
6/3/2024 22:25	63602	LETO_T1	0	0	0	0	0	0	-0.67	-0.68	1	1	0	600	600	0
6/3/2024 22:25	14601	SWHI_T1	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
6/3/2024 22:25	12606	MACA_T1	0	2	2	0	0	0	0.2	0.14	1	1	0	900	900	0
6/3/2024 22:25	56802	BENV_T2	0	1	1	0	0.2	0.2	-1.19	-1.24	0	0	0	0	0	0
6/3/2024 22:25	10801	CHHI_T1	0	0	0	0	0	0	-0.95	-1	2	2	0	1500	1500	0
6/3/2024 22:26	29402	BELT_T1	1	1	0	6	6.4	0.4	0	0	0	0	0	0	0	0
6/3/2024 22:26	15703	TANN_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
6/3/2024 22:26	24105	EHAZ_T1	4	4	0	6.03	6.03	0	-0.44	-0.41	0	0	0	0	0	0
6/3/2024 22:26	45902	AUBU_T1	0	0	0	0	0	0	-3.1	-3.05	3	3	0	1800	1800	0
6/3/2024 22:26	24102	EHAZ_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/3/2024 22:26	10805	CHHI_T2	1	1	0	8.4	8.1	-0.3	-0.68	-0.75	1	1	0	600	600	0
6/3/2024 22:26	24101	EHAZ_T1	9	0	-9	0.61	0	-0.61	0	0	0	0	0	0	0	0
6/3/2024 22:26	48302	ORWI_T2	2	2	0	0.65	0.8	0.15	0.11	0.04	0	0	0	0	0	0
6/3/2024 22:26	15703	TANN_T2	0	0	0	0	0	0	-0.27	-0.31	0	0	0	0	0	0
6/3/2024 22:26	12701	MACU_T1	0	0	0	0	0	0	-1.02	-1.05	1	1	0	1200	1200	0
6/3/2024 22:27	24101	EHAZ_T1	9	0	-9	0.61	0	-0.61	0	0	0	0	0	0	0	0
6/3/2024 22:27	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:27	29402	BELT_T1	1	1	0	6	6.4	0.4	0	0	0	0	0	0	0	0
6/3/2024 22:27	10105	ALLE_T3	12	12	0	1.72	0.71	-1.01	0	0	0	0	0	0	0	0
6/3/2024 22:27	40802	EXCH_T2	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
6/3/2024 22:27	61701	ELIZ_T1	1	1	0	3.3	3.7	0.4	0.72	0.62	0	0	0	0	0	0
6/3/2024 22:27	45902	AUBU_T1	0	0	0	0	0	0	-1.03	-1.02	1	1	0	600	600	0
6/3/2024 22:27	24102	EHAZ_T1	1	1	0	0.1	0	-0.1	0.36	0.32	0	0	0	0	0	0
6/3/2024 22:27	45901	AUBU_T1	0	0	0	0	0	0	1.92	1.94	0	0	0	0	0	0
6/3/2024 22:27	12604	MACA_T1	0	0	0	0	0	0	0.59	0.55	0	0	0	0	0	0
6/3/2024 22:27	12606	MACA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:27	46101	MACI_T2	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
6/3/2024 22:27	67702	WERN_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
6/3/2024 22:27	17802	GILB_T1	0	0	0	0	0	0	0.21	0.15	0	0	0	0	0	0
6/3/2024 22:27	24105	EHAZ_T1	4	4	0	6.03	6.03	0	0	0	0	0	0	0	0	0
6/3/2024 22:28	55002	NEWP_T1	2	2	0	0.4	0.15	-0.25	-0.19	-0.21	0	0	0	0	0	0
6/3/2024 22:28	51004	NHAR_T1	1	1	0	6.3	6.2	-0.1	-1.46	-1.44	0	0	0	0	0	0
6/3/2024 22:28	60803	BUCK_T1	0	0	0	0	0	0	-0.4	-0.41	1	1	0	600	600	0
6/3/2024 22:28	67703	WERN_T2	0	0	0	0	0	0	-0.58	-0.61	1	1	0	900	900	0
6/3/2024 22:28	64201	KINZ_T1	13	4	-9	0.33	0.33	0	0.67	0.62	1	1	0	300	300	0
6/3/2024 22:28	66504	SMAN_T2	0	0	0	0	0	0	-2.63	-2.62	2	2	0	2400	2400	0
6/3/2024 22:28	67503	WEWI_T2	0	0	0	0	0	0	0.26	0.2	0	0	0	0	0	0
6/3/2024 22:28	40502	CRES_T2	3	10	7	0.17	0.18	0.01	-0.36	-0.35	0	0	0	0	0	0
6/3/2024 22:28	67603	WARW_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
6/3/2024 22:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:28	66505	SMAN_T2	3	3	0	0.17	0.47	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/3/2024 22:28	13501	MCMI_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
6/3/2024 22:28	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/3/2024 22:28	60101	COCA_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
6/3/2024 22:28	63402	HONY_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
6/3/2024 22:28	23203	HIRU_T2	0	0	0	0	0	0	-0.04	0.05	0	0	0	0	0	0
6/3/2024 22:28	20403	ASHF_T2	0	0	0	0	0	0	0.38	0.31	0	0	0	0	0	0
6/3/2024 22:28	64202	KINZ_T1	6	0	-6	0.12	0	-0.12	0	0	0	0	0	0	0	0
6/3/2024 22:28	16006	DORN_T2	0	6	6	0	0	0	1.14	1.13	0	0	0	0	0	0
6/3/2024 22:28	51002	NHAR_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
6/3/2024 22:28	64204	KINZ_T1	20	1	-19	0.24	1	0.76	0	0	0	0	0	0	0	0
6/3/2024 22:28	63403	HONY_T2	0	0	0	0	0	0	-0.85	-0.29	1	1	0	600	600	0
6/3/2024 22:28	24702	FLND_T2	0	0	0	0	0	0	-0.2	-0.02	1	1	0	1200	1200	0
6/3/2024 22:28	29402	BELT_T1	1	1	0	6	6.4	0.4	0	0	0	0	0	0	0	0
6/3/2024 22:29	65502	MOJO_T2	0	0	0	0	0	0	-1.26	-1.48	1	1	0	900	900	0
6/3/2024 22:29	13503	MCMI_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
6/3/2024 22:29	48901	FOSP_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
6/3/2024 22:29	64701	LITI_T1	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
6/3/2024 22:29	60502	NMAN_T2	0	0	0	0	0	0	-0.06	-0.17	0	0	0	0	0	0
6/3/2024 22:29	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:29	14204	EALL_T2	0	0	0	0	0	0	0.16	0.08	0	0	0	0	0	0
6/3/2024 22:29	10705	CATA_T2	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
6/3/2024 22:29	67702	WERN_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
6/3/2024 22:29	13901	SEID_T1	0	0	0	0	0	0	-0.74	-0.76	1	1	0	1200	1200	0
6/3/2024 22:29	26401	INOR_T1	1	1	0	9	9.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 22:29	67204	TEHI_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
6/3/2024 22:29	26402	INOR_T1	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
6/3/2024 22:29	42204	SHEN_T2	0	0	0	0	0	0	-0.1	-0.07	1	1	0	1200	1200	0
6/3/2024 22:29	60501	NMAN_T2	3	3	0	3.87	4.2	0.33	0	0	0	0	0	0	0	0
6/3/2024 22:29	52002	LING_T2	0	0	0	0	0	0	0.27	0.19	0	0	0	0	0	0
6/3/2024 22:29	67605	WARW_T1	0	0	0	0	0	0	-1.14	-1.16	0	0	0	0	0	0
6/3/2024 22:29	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.9	1	1	0	900	900	0
6/3/2024 22:29	52004	LING_T2	0	0	0	0	0	0	0	0.26	0	0	0	0	0	0
6/3/2024 22:29	57004	WHHI_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
6/3/2024 22:29	10102	ALLE_T2	1	1	0	7	6.9	-0.1	0	0	0	0	0	0	0	0
6/3/2024 22:30	13501	MCMI_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
6/3/2024 22:30	52004	LING_T2	0	0	0	0	0	0	0	0.26	0	0	0	0	0	0
6/3/2024 22:30	12606	MACA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:30	57006	WHHI_T2	0	1	1	0	0.1	0.1	0.97	0.34	0	1	1	0	600	600
6/3/2024 22:30	15702	TANN_T2	0	0	0	0	0	0	-0.27	-0.31	0	0	0	0	0	0
6/3/2024 22:30	16102	BING_T2	2	10	8	0.15	0.19	0.04	0.57	0.59	0	0	0	0	0	0
6/3/2024 22:30	12604	MACA_T1	0	0	0	0	0	0	0.59	0.55	0	0	0	0	0	0
6/3/2024 22:30	12801	MICK_T1	0	0	0	0	0	0	-0.87	-0.85	1	1	0	600	600	0
6/3/2024 22:30	40502	CRES_T2	0	13	13	0	0.24	0.24	-0.36	-0.35	0	0	0	0	0	0
6/3/2024 22:30	67703	WERN_T2	0	0	0	0	0	0	-1.15	-1.22	2	2	0	1800	1800	0
6/3/2024 22:30	64902	MILL_T2	0	0	0	0	0	0	-0.28	-0.31	1	1	0	900	900	0
6/3/2024 22:30	13503	MCMI_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
6/3/2024 22:30	12803	MICK_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/3/2024 22:30	16006	DORN_T2	0	6	6	0	1.15	1.15	1.14	1.13	0	0	0	0	0	0
6/3/2024 22:30	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/3/2024 22:30	65804	RTWN_T1	0	0	0	0	0	0	0.38	0.37	1	1	0	600	600	0
6/3/2024 22:30	63305	GREE_T1	0	0	0	0	0	0	-0.96	-0.97	0	0	0	0	0	0
6/3/2024 22:30	67503	WEWI_T2	0	0	0	0	0	0	0.26	0.2	0	0	0	0	0	0
6/3/2024 22:30	14403	SSLA_T1	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
6/3/2024 22:30	56801	BENV_T1	7	12	5	0.37	1.28	0.91	-0.8	-0.84	1	1	0	600	600	0
6/3/2024 22:30	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:30	29402	BELT_T1	1	1	0	6.1	6.7	0.6	0	0	0	0	0	0	0	0
6/3/2024 22:30	67103	SPRI_T1	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
6/3/2024 22:30	15703	TANN_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
6/3/2024 22:30	14404	SSLA_T1	1	1	0	4.6	4.7	0.1	0.1	0.1	0	0	0	0	0	0
6/3/2024 22:30	26603	BROO_T1	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
6/3/2024 22:30	45902	AUBU_T1	0	0	0	0	0	0	-3.1	-3.05	3	3	0	1800	1800	0
6/3/2024 22:31	56803	BENV_T1	0	0	0	0	0	0	-0.02	-0.03	1	1	0	600	600	0
6/3/2024 22:31	46504	LOHA_T1	28	46	18	0.25	0.4	0.15	0	0	0	0	0	0	0	0
6/3/2024 22:31	60501	NMAN_T2	3	3	0	4.13	4.3	0.17	0	0	0	0	0	0	0	0
6/3/2024 22:31	48302	ORWI_T2	2	2	0	0.6	1	0.4	0	0	0	0	0	0	0	0
6/3/2024 22:31	63602	LETO_T1	0	0	0	0	0	0	-0.67	-0.68	1	1	0	600	600	0
6/3/2024 22:31	46101	MACI_T2	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
6/3/2024 22:31	60802	BUCK_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
6/3/2024 22:31	56801	BENV_T1	7	12	5	0.37	1.28	0.91	0	0	0	0	0	0	0	0
6/3/2024 22:31	57002	WHHI_T2	0	0	0	0	0	0	-0.81	-2.13	0	1	1	0	1200	1200
6/3/2024 22:31	65603	QVIL_T2	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
6/3/2024 22:31	66503	SMAN_T2	0	0	0	0	0	0	0.78	0.7	0	0	0	0	0	0
6/3/2024 22:31	43102	SMIL_T2	4	6	2	0.38	0.47	0.09	0	0	0	0	0	0	0	0
6/3/2024 22:31	60502	NMAN_T2	0	0	0	0	0	0	-0.06	-0.17	0	0	0	0	0	0
6/3/2024 22:31	14801	TREI_T2	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
6/3/2024 22:31	40502	CRES_T2	0	13	13	0	0.24	0.24	-0.36	-0.35	0	0	0	0	0	0
6/3/2024 22:31	59101	WALK_T2	0	0	0	0	0	0	0.77	0.94	1	1	0	600	600	0
6/3/2024 22:31	10707	CATA_T2	0	0	0	0	0	0	0.58	0.49	0	0	0	0	0	0
6/3/2024 22:31	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 22:31	46506	LOHA_T1	1	1	0	0.7	0.6	-0.1	-0.3	-0.32	0	0	0	0	0	0
6/3/2024 22:31	11507	FREE_T2	0	0	0	0	0	0	1.02	1.07	1	1	0	600	600	0
6/3/2024 22:31	22903	HARW_T1	1	0	-1	0.1	0	-0.1	0.33	0.25	0	0	0	0	0	0
6/3/2024 22:31	43103	SMIL_T2	2	7	5	0.15	0.26	0.11	0	0	0	0	0	0	0	0
6/3/2024 22:31	56802	BENV_T2	0	1	1	0	0.4	0.4	-1.19	-1.24	0	0	0	0	0	0
6/3/2024 22:31	67502	WEWI_T2	0	0	0	0	0	0	-1.07	-1.08	1	1	0	900	900	0
6/3/2024 22:31	11104	EGYP_T1	0	0	0	0	0	0	0.47	0.4	0	0	0	0	0	0
6/3/2024 22:31	43104	SMIL_T2	0	0	0	0	0	0	-0.62	-0.64	1	1	0	300	300	0
6/3/2024 22:31	43105	SMIL_T2	2	7	5	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
6/3/2024 22:31	66505	SMAN_T2	3	0	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
6/3/2024 22:31	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:31	48902	FOSP_T2	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
6/3/2024 22:32	54201	PENN_T1	4	25	21	1	0.55	-0.45	-0.62	-0.66	0	0	0	0	0	0
6/3/2024 22:32	61102	BERK_T5	0	0	0	0	0	0	0.03	-0.17	6	6	0	3600	3600	0
6/3/2024 22:32	29402	BELT_T1	1	1	0	6.1	6.7	0.6	0	0	0	0	0	0	0	0
6/3/2024 22:32	59101	WALK_T2	0	0	0	0	0	0	0.77	0.94	1	1	0	600	600	0
6/3/2024 22:32	67503	WEWI_T2	0	0	0	0	0	0	0.26	0.2	0	0	0	0	0	0
6/3/2024 22:32	47101	MARL_T1	0	0	0	0	0	0	-0.67	-0.71	0	0	0	0	0	0
6/3/2024 22:32	52402	GRPA_T2	0	1	1	0	0.4	0.4	-0.81	-0.82	0	0	0	0	0	0
6/3/2024 22:32	41901	REED_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/3/2024 22:32	23203	HIRU_T2	0	0	0	0	0	0	-0.04	0.05	0	0	0	0	0	0
6/3/2024 22:32	67605	WARW_T1	0	0	0	0	0	0	-1.14	-1.16	0	0	0	0	0	0
6/3/2024 22:32	54203	PENN_T1	18	19	1	0.33	0.99	0.66	0	0	0	0	0	0	0	0
6/3/2024 22:32	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:32	66504	SMAN_T2	0	0	0	0	0	0	-1.32	-1.31	1	1	0	1200	1200	0
6/3/2024 22:32	61701	ELIZ_T1	1	1	0	3.4	4	0.6	0.72	0.62	0	0	0	0	0	0
6/3/2024 22:32	53903	HALI_T2	2	2	0	1	1.2	0.2	-0.08	-0.07	0	0	0	0	0	0
6/3/2024 22:32	64101	REFR_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
6/3/2024 22:32	66505	SMAN_T2	3	0	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
6/3/2024 22:32	52401	GRPA_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
6/3/2024 22:32	40502	CRES_T2	0	13	13	0	0.24	0.24	-0.54	-0.53	0	0	0	0	0	0
6/3/2024 22:32	43105	SMIL_T2	2	7	5	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
6/3/2024 22:32	14203	EALL_T1	0	0	0	0	0	0	0.04	-0.02	1	1	0	1200	1200	0
6/3/2024 22:32	46504	LOHA_T1	28	46	18	0.25	0.4	0.15	0	0	0	0	0	0	0	0
6/3/2024 22:32	13503	MCMI_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
6/3/2024 22:32	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/3/2024 22:32	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:32	41902	REED_T1	0	0	0	0	0	0	0.31	1.11	0	0	0	0	0	0
6/3/2024 22:32	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:32	56801	BENV_T1	7	12	5	0.37	1.28	0.91	-4.02	-4.22	5	5	0	3000	3000	0
6/3/2024 22:32	46506	LOHA_T1	1	1	0	0.7	0.6	-0.1	-0.3	-0.32	0	0	0	0	0	0
6/3/2024 22:32	46206	DANV_T2	1	1	0	1.4	1.6	0.2	3.45	3.44	1	1	0	1200	1200	0
6/3/2024 22:32	14603	SWHI_T1	0	0	0	0	0	0	-0.65	-0.72	1	1	0	600	600	0
6/3/2024 22:32	48901	FOSP_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
6/3/2024 22:32	43103	SMIL_T2	2	7	5	0.15	0.26	0.11	0.64	0.68	0	0	0	0	0	0
6/3/2024 22:32	10801	CHHI_T1	0	0	0	0	0	0	-0.95	-1	2	2	0	1500	1500	0
6/3/2024 22:32	43102	SMIL_T2	4	6	2	0.38	0.47	0.09	0	0	0	0	0	0	0	0
6/3/2024 22:32	67502	WEWI_T2	0	0	0	0	0	0	-1.07	-1.08	1	1	0	900	900	0
6/3/2024 22:32	58006	WCAR_T2	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
6/3/2024 22:32	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:32	53902	HALI_T2	1	1	0	5.2	5.8	0.6	0	0	0	0	0	0	0	0
6/3/2024 22:32	53901	HALI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/3/2024 22:32	67702	WERN_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
6/3/2024 22:32	24902	WHHA_T1	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
6/3/2024 22:32	13302	ORVI_T2	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
6/3/2024 22:33	61102	BERK_T5	0	0	0	0	0	0	0.01	-0.06	2	2	0	1200	1200	0
6/3/2024 22:33	57106	SPHI_T2	3	3	0	0.87	1.2	0.33	0	0	0	0	0	0	0	0
6/3/2024 22:33	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:33	55002	NEWP_T1	2	2	0	0.15	0.45	0.3	-0.19	-0.21	0	0	0	0	0	0
6/3/2024 22:33	53501	EVIL_T2	2	2	0	0.95	1.1	0.15	-0.68	-0.72	1	1	0	600	600	0
6/3/2024 22:33	67702	WERN_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
6/3/2024 22:33	52002	LING_T2	0	0	0	0	0	0	0.27	0.19	0	0	0	0	0	0
6/3/2024 22:33	14702	TREX_T2	0	0	0	0	0	0	1.32	1.3	0	0	0	0	0	0
6/3/2024 22:33	67503	WEWI_T2	0	0	0	0	0	0	0.52	0.39	0	0	0	0	0	0
6/3/2024 22:33	56801	BENV_T1	7	12	5	0.37	1.28	0.91	-1.61	-1.69	2	2	0	1200	1200	0
6/3/2024 22:33	67805	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/3/2024 22:33	56802	BENV_T2	0	1	1	0	0.4	0.4	-1.19	-1.24	0	0	0	0	0	0
6/3/2024 22:33	57104	SPHI_T2	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
6/3/2024 22:33	41901	REED_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/3/2024 22:33	43301	WATS_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/3/2024 22:33	13503	MCMI_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
6/3/2024 22:33	41902	REED_T1	0	0	0	0	0	0	0.31	1.11	0	0	0	0	0	0
6/3/2024 22:33	60101	COCA_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
6/3/2024 22:33	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:33	53601	DALM_T2	1	1	0	1	1.3	0.3	0.1	0.03	0	0	0	0	0	0
6/3/2024 22:33	50501	MECH_T1	0	4	4	0	0.55	0.55	0	0	0	0	0	0	0	0
6/3/2024 22:33	50502	MECH_T1	1	1	0	1	1.9	0.9	0	0	0	0	0	0	0	0
6/3/2024 22:33	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:33	10805	CHHI_T2	1	1	0	8.1	7.8	-0.3	-0.68	-0.75	1	1	0	600	600	0
6/3/2024 22:33	57103	SPHI_T2	0	0	0	0	0	0	-0.05	-0.68	0	0	0	0	0	0
6/3/2024 22:33	43302	WATS_T2	4	3	-1	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
6/3/2024 22:33	67204	TEHI_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
6/3/2024 22:33	64101	REFR_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
6/3/2024 22:33	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/3/2024 22:33	67801	WLAN_T1	0	0	0	0	0	0	-0.12	-0.17	0	0	0	0	0	0
6/3/2024 22:33	25503	MADI_T1	124	128	4	0.53	0.51	-0.02	-0.82	-0.86	0	0	0	0	0	0
6/3/2024 22:33	12606	MACA_T1	0	2	2	0	0	0	0.2	0.14	1	1	0	900	900	0
6/3/2024 22:33	22602	KIMB_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
6/3/2024 22:33	50505	MECH_T1	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
6/3/2024 22:33	65001	NEFF_T2	0	0	0	0	0	0	-0.56	-0.59	1	1	0	1200	1200	0
6/3/2024 22:33	57101	SPHI_T2	0	6	6	0	0.63	0.63	0	0	0	0	0	0	0	0
6/3/2024 22:33	63305	GREE_T1	0	0	0	0	0	0	-0.96	-0.97	0	0	0	0	0	0
6/3/2024 22:34	66505	SMAN_T2	3	0	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
6/3/2024 22:34	54201	PENN_T1	4	25	21	1	0.55	-0.45	0	0	0	0	0	0	0	0
6/3/2024 22:34	52404	GRPA_T2	0	0	0	0	0	0	-0.22	-0.26	0	0	0	0	0	0
6/3/2024 22:34	45402	WBLO_T2	1	3	2	0.7	0.4	-0.3	-0.54	-0.58	0	0	0	0	0	0
6/3/2024 22:34	59101	WALK_T2	0	0	0	0	0	0	0.77	0.94	1	1	0	600	600	0
6/3/2024 22:34	14404	SSLA_T1	1	1	0	4.6	4.7	0.1	0	0	0	0	0	0	0	0
6/3/2024 22:34	60801	BUCK_T1	0	0	0	0	0	0	-0.04	-0.1	0	0	0	0	0	0
6/3/2024 22:34	67502	WEWI_T2	0	0	0	0	0	0	-1.07	-1.08	1	1	0	900	900	0
6/3/2024 22:34	52402	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/3/2024 22:34	12701	MACU_T1	0	0	0	0	0	0	-1.02	-1.05	1	1	0	1200	1200	0
6/3/2024 22:34	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 22:34	40902	JESH_T1	0	0	0	0	0	0	-0.53	-0.6	0	0	0	0	0	0
6/3/2024 22:34	67602	WARW_T2	0	0	0	0	0	0	-0.1	-0.14	1	1	0	1200	1200	0
6/3/2024 22:34	43302	WATS_T2	4	3	-1	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
6/3/2024 22:34	45601	WOOL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
6/3/2024 22:34	40901	JESH_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/3/2024 22:34	20403	ASHF_T2	0	0	0	0	0	0	0.38	0.31	0	0	0	0	0	0
6/3/2024 22:34	40802	EXCH_T2	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
6/3/2024 22:34	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 22:34	48901	FOSP_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
6/3/2024 22:34	56802	BENV_T2	0	1	1	0	0.4	0.4	-2.38	-2.47	0	0	0	0	0	0
6/3/2024 22:34	67702	WERN_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
6/3/2024 22:34	56801	BENV_T1	7	12	5	0.37	1.28	0.91	-0.8	-0.84	1	1	0	600	600	0
6/3/2024 22:34	43301	WATS_T2	0	1	1	0	0.6	0.6	0	0	0	1	1	0	900	900
6/3/2024 22:34	54203	PENN_T1	18	19	1	0.33	0.99	0.66	0.5	0.38	0	0	0	0	0	0
6/3/2024 22:34	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:34	57004	WHHI_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
6/3/2024 22:34	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:34	48902	FOSP_T2	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
6/3/2024 22:34	45501	DERR_T2	0	0	0	0	0	0	-0.14	-0.14	2	2	0	1800	1800	0
6/3/2024 22:34	14403	SSLA_T1	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
6/3/2024 22:34	52401	GRPA_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
6/3/2024 22:34	66502	SMAN_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
6/3/2024 22:34	45902	AUBU_T1	0	0	0	0	0	0	-1.03	-1.02	1	1	0	600	600	0
6/3/2024 22:35	57104	SPHI_T2	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
6/3/2024 22:35	61102	BERK_T5	0	0	0	0	0	0	0.01	-0.06	2	2	0	1200	1200	0
6/3/2024 22:35	24201	PROV_T3	1	1	0	7.6	6.9	-0.7	-1.12	-1.17	1	1	0	1200	1200	0
6/3/2024 22:35	57103	SPHI_T2	0	0	0	0	0	0	-0.05	-0.68	0	0	0	0	0	0
6/3/2024 22:35	54203	PENN_T1	18	19	1	0.33	0.99	0.66	0.5	0.38	0	0	0	0	0	0
6/3/2024 22:35	43302	WATS_T2	4	3	-1	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
6/3/2024 22:35	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:35	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:35	67605	WARW_T1	0	0	0	0	0	0	-1.14	-1.16	0	0	0	0	0	0
6/3/2024 22:35	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/3/2024 22:35	17804	GILB_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
6/3/2024 22:35	12601	MACA_T1	0	0	0	0	0	0	1.09	1.08	0	0	0	0	0	0
6/3/2024 22:35	12701	MACU_T1	0	0	0	0	0	0	-2.04	-2.09	2	2	0	2400	2400	0
6/3/2024 22:35	67503	WEWI_T2	0	0	0	0	0	0	0.26	0.2	0	0	0	0	0	0
6/3/2024 22:35	57101	SPHI_T2	0	6	6	0	0.63	0.63	0	0	0	0	0	0	0	0
6/3/2024 22:35	48901	FOSP_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
6/3/2024 22:35	60803	BUCK_T1	0	0	0	0	0	0	-0.4	-0.41	1	1	0	600	600	0
6/3/2024 22:35	65902	SAKR_T2	0	0	0	0	0	0	-0.54	-0.5	1	1	0	300	300	0
6/3/2024 22:35	64902	MILL_T2	0	0	0	0	0	0	-0.28	-0.31	1	1	0	900	900	0
6/3/2024 22:35	46206	DANV_T2	1	1	0	1.4	1.6	0.2	3.45	3.44	1	1	0	1200	1200	0
6/3/2024 22:35	52401	GRPA_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
6/3/2024 22:35	51002	NHAR_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
6/3/2024 22:35	64904	MILL_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
6/3/2024 22:35	53903	HALI_T2	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
6/3/2024 22:35	43301	WATS_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/3/2024 22:35	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 22:35	51003	NHAR_T1	0	0	0	0	0	0	-1.17	-1.27	1	1	0	1200	1200	0
6/3/2024 22:35	44502	HAMI_T2	1	1	0	2.6	2.9	0.3	-0.7	-0.73	0	0	0	0	0	0
6/3/2024 22:35	51004	NHAR_T1	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
6/3/2024 22:35	55002	NEWP_T1	2	2	0	0.15	0.45	0.3	-0.19	-0.21	0	0	0	0	0	0
6/3/2024 22:35	54201	PENN_T1	4	25	21	1	0.55	-0.45	0	0	0	0	0	0	0	0
6/3/2024 22:35	24204	PROV_T3	1	1	0	6.7	6.3	-0.4	0	0	0	0	0	0	0	0
6/3/2024 22:35	53901	HALI_T2	0	1	1	0	0.3	0.3	-1.23	-1.22	0	0	0	0	0	0
6/3/2024 22:35	57004	WHHI_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
6/3/2024 22:35	42503	ALTA_T2	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
6/3/2024 22:35	45902	AUBU_T1	0	0	0	0	0	0	-1.03	-1.02	1	1	0	600	600	0
6/3/2024 22:35	53902	HALI_T2	1	1	0	5.2	5.8	0.6	0	0	0	0	0	0	0	0
6/3/2024 22:35	52402	GRPA_T2	0	1	1	0	0.4	0.4	-0.81	-0.82	0	0	0	0	0	0
6/3/2024 22:35	10801	CHHI_T1	0	0	0	0	0	0	-1.9	-2.01	4	4	0	3000	3000	0
6/3/2024 22:35	13503	MCMI_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
6/3/2024 22:35	40601	PIGR_T1	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
6/3/2024 22:35	24205	PROV_T3	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
6/3/2024 22:35	10901	COOP_T2	0	0	0	0	0	0	0.92	0.89	0	0	0	0	0	0
6/3/2024 22:35	65901	SAKR_T2	1	1	0	8.4	8.3	-0.1	0	0	0	0	0	0	0	0
6/3/2024 22:35	12606	MACA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:35	58006	WCAR_T2	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
6/3/2024 22:35	57106	SPHI_T2	3	3	0	0.87	1.2	0.33	0	0	0	0	0	0	0	0
6/3/2024 22:35	29402	BELT_T1	1	1	0	6.1	6.7	0.6	0	0	0	0	0	0	0	0
6/3/2024 22:35	40602	PIGR_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/3/2024 22:36	20603	GRWO_T2	0	1	1	0	0.1	0.1	0.47	0.47	0	0	0	0	0	0
6/3/2024 22:36	40802	EXCH_T2	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
6/3/2024 22:36	57303	MOAL_T2	1	1	0	8.2	7.9	-0.3	0	0	0	0	0	0	0	0
6/3/2024 22:36	56801	BENV_T1	7	12	5	0.37	1.28	0.91	-0.8	-0.84	1	1	0	600	600	0
6/3/2024 22:36	44505	HAMI_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
6/3/2024 22:36	45302	WBER_T2	0	0	0	0	0	0	1.13	1.12	0	0	0	0	0	0
6/3/2024 22:36	61102	BERK_T5	0	0	0	0	0	0	0.01	-0.06	2	2	0	1200	1200	0
6/3/2024 22:36	57104	SPHI_T2	1	1	0	1.3	1.1	-0.2	-0.62	-1.64	0	1	1	0	900	900
6/3/2024 22:36	45501	DERR_T2	0	0	0	0	0	0	-0.14	-0.14	2	2	0	1800	1800	0
6/3/2024 22:36	66505	SMAN_T2	3	0	-3	0.47	0	-0.47	-0.37	0.18	3	2	-1	2100	1500	-600
6/3/2024 22:36	52401	GRPA_T2	1	1	0	0.2	0.9	0.7	-0.45	-0.47	0	0	0	0	0	0
6/3/2024 22:36	14404	SSLA_T1	1	1	0	4.6	4.7	0.1	0	0	0	0	0	0	0	0
6/3/2024 22:36	58003	WCAR_T1	1	1	0	1	1.4	0.4	0.76	0.76	0	0	0	0	0	0
6/3/2024 22:36	64101	REFR_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
6/3/2024 22:36	14403	SSLA_T1	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
6/3/2024 22:36	15702	TANN_T2	0	0	0	0	0	0	-0.27	-0.31	0	0	0	0	0	0
6/3/2024 22:36	58001	WCAR_T1	0	3	3	0	0.53	0.53	0	0	0	0	0	0	0	0
6/3/2024 22:36	56802	BENV_T2	0	1	1	0	0.4	0.4	-1.19	-1.24	0	0	0	0	0	0
6/3/2024 22:36	52402	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/3/2024 22:36	43102	SMIL_T2	4	6	2	0.38	0.47	0.09	0	0	0	0	0	0	0	0
6/3/2024 22:36	43103	SMIL_T2	2	7	5	0.15	0.26	0.11	-1.28	-1.35	0	0	0	0	0	0
6/3/2024 22:36	46803	HEPB_T2	0	0	0	0	0	0	0.55	0.51	0	0	0	0	0	0
6/3/2024 22:36	20601	GRWO_T2	0	0	0	0	0	0	-0.21	-0.27	0	0	0	0	0	0
6/3/2024 22:36	67602	WARW_T2	0	0	0	0	0	0	-0.1	-0.14	1	1	0	1200	1200	0
6/3/2024 22:36	43301	WATS_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/3/2024 22:36	55101	WERT_T1	0	0	0	0	0	0	-1.9	-1.95	3	3	0	2400	2400	0
6/3/2024 22:36	57106	SPHI_T2	3	3	0	0.87	1.2	0.33	0	0	0	0	0	0	0	0
6/3/2024 22:36	46801	HEPB_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/3/2024 22:36	15703	TANN_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
6/3/2024 22:36	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:36	60801	BUCK_T1	0	0	0	0	0	0	-0.04	-0.1	0	0	0	0	0	0
6/3/2024 22:36	44502	HAMI_T2	1	1	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
6/3/2024 22:36	43105	SMIL_T2	2	7	5	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
6/3/2024 22:36	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:36	52403	GRPA_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
6/3/2024 22:36	43302	WATS_T2	4	3	-1	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
6/3/2024 22:36	57302	MOAL_T2	0	0	0	0	0	0	-1.25	-1.27	1	1	0	1200	1200	0
6/3/2024 22:36	45502	DERR_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
6/3/2024 22:36	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.9	1	1	0	900	900	0
6/3/2024 22:36	57101	SPHI_T2	0	6	6	0	0.63	0.63	0	0	0	0	0	0	0	0
6/3/2024 22:36	55405	SHER_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
6/3/2024 22:37	40602	PIGR_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/3/2024 22:37	26603	BROO_T1	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
6/3/2024 22:37	45501	DERR_T2	0	0	0	0	0	0	-0.42	-0.41	6	6	0	5400	5400	0
6/3/2024 22:37	43302	WATS_T2	4	3	-1	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
6/3/2024 22:37	46203	DANV_T2	0	0	0	0	0	0	-0.91	-1.04	0	0	0	0	0	0
6/3/2024 22:37	55101	WERT_T1	0	0	0	0	0	0	-3.8	-3.91	6	6	0	4800	4800	0
6/3/2024 22:37	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/3/2024 22:37	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:37	40601	PIGR_T1	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
6/3/2024 22:37	57106	SPHI_T2	3	3	0	0.87	1.2	0.33	0	0	0	0	0	0	0	0
6/3/2024 22:37	40505	CRES_T1	3	3	0	4.97	5.4	0.43	0	0	0	0	0	0	0	0
6/3/2024 22:37	26601	BROO_T1	0	0	0	0	0	0	-0.22	-0.24	1	1	0	600	600	0
6/3/2024 22:37	64201	KINZ_T1	4	1	-3	0.28	1	0.72	0	0	0	0	0	0	0	0
6/3/2024 22:37	48901	FOSP_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
6/3/2024 22:37	43105	SMIL_T2	2	7	5	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
6/3/2024 22:37	43102	SMIL_T2	4	6	2	0.38	0.47	0.09	0	0	0	0	0	0	0	0
6/3/2024 22:37	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:37	41902	REED_T1	0	0	0	0	0	0	0.31	1.11	0	0	0	0	0	0
6/3/2024 22:37	46206	DANV_T2	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
6/3/2024 22:37	57103	SPHI_T2	0	0	0	0	0	0	-0.05	-0.68	0	0	0	0	0	0
6/3/2024 22:37	43104	SMIL_T2	0	0	0	0	0	0	-0.62	-0.64	1	1	0	300	300	0
6/3/2024 22:37	45402	WBLO_T2	1	3	2	0.7	0.4	-0.3	-0.54	-0.58	0	0	0	0	0	0
6/3/2024 22:37	40504	CRES_T1	0	0	0	0	0	0	-0.34	-0.4	0	0	0	0	0	0
6/3/2024 22:37	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:37	42503	ALTA_T2	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
6/3/2024 22:37	45601	WOOL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
6/3/2024 22:37	57104	SPHI_T2	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
6/3/2024 22:37	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:37	66505	SMAN_T2	3	0	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
6/3/2024 22:37	66503	SMAN_T2	0	0	0	0	0	0	0.78	0.7	0	0	0	0	0	0
6/3/2024 22:37	56801	BENV_T1	7	12	5	0.37	1.28	0.91	-2.41	-2.53	3	3	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/3/2024 22:37	57101	SPHI_T2	0	6	6	0	0.63	0.63	0.58	-0.11	0	0	0	0	0	0
6/3/2024 22:37	53501	EVIL_T2	2	2	0	0.95	1.1	0.15	-0.68	-0.72	1	1	0	600	600	0
6/3/2024 22:37	43103	SMIL_T2	2	7	5	0.15	0.26	0.11	-0.64	-0.68	0	0	0	0	0	0
6/3/2024 22:37	40502	CRES_T2	0	13	13	0	0.24	0.24	-0.18	-0.18	0	0	0	0	0	0
6/3/2024 22:37	64101	REFR_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
6/3/2024 22:37	58401	MORO_T1	0	0	0	0	0	0	-0.83	-1.49	1	2	1	600	1200	600
6/3/2024 22:37	42201	SHEN_T2	0	0	0	0	0	0	0.13	0.14	1	1	0	600	600	0
6/3/2024 22:37	41901	REED_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/3/2024 22:37	66502	SMAN_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
6/3/2024 22:37	64203	KINZ_T1	0	0	0	0	0	0	0.54	0.61	0	0	0	0	0	0
6/3/2024 22:37	43301	WATS_T2	0	1	1	0	0.6	0.6	0	0	0	1	1	0	900	900
6/3/2024 22:37	45502	DERR_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
6/3/2024 22:38	46102	MACI_T1	0	0	0	0	0	0	0.41	0.34	0	0	0	0	0	0
6/3/2024 22:38	59101	WALK_T2	0	0	0	0	0	0	1.87	2.12	2	2	0	1200	1200	0
6/3/2024 22:38	53903	HALI_T2	2	2	0	1	1.2	0.2	-0.07	-0.07	0	0	0	0	0	0
6/3/2024 22:38	52402	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/3/2024 22:38	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:38	64101	REFR_T1	0	0	0	0	0	0	0.38	0.3	0	0	0	0	0	0
6/3/2024 22:38	67605	WARW_T1	0	0	0	0	0	0	-1.16	-1.17	0	0	0	0	0	0
6/3/2024 22:38	53501	EVIL_T2	2	2	0	0.95	1.1	0.15	-1.44	-1.54	2	2	0	1200	1200	0
6/3/2024 22:38	46506	LOHA_T1	1	1	0	0.7	0.6	-0.1	-0.32	-0.33	0	0	0	0	0	0
6/3/2024 22:38	46302	ROHR_T1	4	4	0	1.28	1.95	0.67	0.2	0.19	0	0	0	0	0	0
6/3/2024 22:38	58102	NEKI_T1	1	1	0	0.8	1.2	0.4	-0.52	-0.6	0	0	0	0	0	0
6/3/2024 22:38	67402	WAKE_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
6/3/2024 22:38	40502	CRES_T2	0	13	13	0	0.24	0.24	-0.35	-0.43	0	0	0	0	0	0
6/3/2024 22:38	46504	LOHA_T1	28	46	18	0.25	0.4	0.15	0	0	0	0	0	0	0	0
6/3/2024 22:38	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:38	58003	WCAR_T1	1	1	0	1	1.4	0.4	1.53	1.5	0	0	0	0	0	0
6/3/2024 22:38	45802	HEGI_T2	3	13	10	0.13	0.26	0.13	1.3	1.46	0	0	0	0	0	0
6/3/2024 22:38	41901	REED_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/3/2024 22:38	41902	REED_T1	0	0	0	0	0	0	1.11	1.13	0	0	0	0	0	0
6/3/2024 22:38	58001	WCAR_T1	0	3	3	0	0.53	0.53	0	0	0	0	0	0	0	0
6/3/2024 22:38	52401	GRPA_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
6/3/2024 22:38	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:38	49803	UNIV_T1	0	0	0	0	0	0	-0.97	-1.02	0	0	0	0	0	0
6/3/2024 22:38	55002	NEWP_T1	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
6/3/2024 22:38	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/3/2024 22:38	60803	BUCK_T1	0	0	0	0	0	0	-0.41	-0.43	1	1	0	600	600	0
6/3/2024 22:38	53902	HALI_T2	1	1	0	5.2	5.8	0.6	0	0	0	0	0	0	0	0
6/3/2024 22:38	52404	GRPA_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
6/3/2024 22:38	46101	MACI_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
6/3/2024 22:38	55001	NEWP_T1	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
6/3/2024 22:38	43302	WATS_T2	4	3	-1	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
6/3/2024 22:38	53901	HALI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/3/2024 22:38	44502	HAMI_T2	1	3	2	2.6	2.9	0.3	0	0	0	0	0	0	0	0
6/3/2024 22:38	56801	BENV_T1	7	12	5	0.37	1.28	0.91	-1.69	-1.79	2	2	0	1200	1200	0
6/3/2024 22:38	52002	LING_T2	0	0	0	0	0	0	0.19	0.1	0	0	0	0	0	0
6/3/2024 22:38	57006	WHHI_T2	0	1	1	0	0.1	0.1	0.34	0.33	0	1	1	0	600	600
6/3/2024 22:38	43301	WATS_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/3/2024 22:38	44505	HAMI_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
6/3/2024 22:38	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:39	58706	ROSE_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/3/2024 22:39	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:39	56801	BENV_T1	7	12	5	0.37	1.28	0.91	-0.84	-0.89	1	1	0	600	600	0
6/3/2024 22:39	43104	SMIL_T2	0	0	0	0	0	0	-0.64	-0.66	1	1	0	300	300	0
6/3/2024 22:39	45501	DERR_T2	0	0	0	0	0	0	-0.14	-0.2	2	2	0	1800	1800	0
6/3/2024 22:39	29402	BELT_T1	1	1	0	6.1	6.7	0.6	0	0	0	0	0	0	0	0
6/3/2024 22:39	46902	MNTG_T2	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
6/3/2024 22:39	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:39	43302	WATS_T2	4	3	-1	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
6/3/2024 22:39	67605	WARW_T1	0	0	0	0	0	0	-1.16	-1.17	0	0	0	0	0	0
6/3/2024 22:39	53902	HALI_T2	1	1	0	5.2	5.8	0.6	0	0	0	0	0	0	0	0
6/3/2024 22:39	23001	SAJO_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
6/3/2024 22:39	40505	CRES_T1	3	3	0	4.97	5.4	0.43	0	0	0	0	0	0	0	0
6/3/2024 22:39	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:39	46506	LOHA_T1	1	1	0	0.7	0.6	-0.1	-0.32	-0.33	0	0	0	0	0	0
6/3/2024 22:39	40504	CRES_T1	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
6/3/2024 22:39	45402	WBLO_T2	1	3	2	0.7	0.4	-0.3	-0.58	-0.62	0	0	0	0	0	0
6/3/2024 22:39	40602	PIGR_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/3/2024 22:39	52002	LING_T2	0	0	0	0	0	0	0.19	0.1	0	0	0	0	0	0
6/3/2024 22:39	44504	HAMI_T2	0	0	0	0	0	0	-1.07	-1.1	0	0	0	0	0	0
6/3/2024 22:39	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:39	40502	CRES_T2	0	13	13	0	0.24	0.24	-0.18	-0.21	0	0	0	0	0	0
6/3/2024 22:39	56802	BENV_T2	0	1	1	0	0.4	0.4	-1.24	-1.25	0	0	0	0	0	0
6/3/2024 22:39	53901	HALI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/3/2024 22:39	43301	WATS_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/3/2024 22:39	58705	ROSE_T2	5	5	0	1.3	2.12	0.82	0	0	0	0	0	0	0	0
6/3/2024 22:39	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/3/2024 22:39	66505	SMAN_T2	3	0	-3	0.47	0	-0.47	0.18	0.15	2	2	0	1500	1500	0
6/3/2024 22:39	40601	PIGR_T1	0	0	0	0	0	0	0	-0.09	0	0	0	0	0	0
6/3/2024 22:39	42903	MIDD_T2	2	2	0	0.8	1.15	0.35	-1.28	-1.27	1	1	0	1200	1200	0
6/3/2024 22:39	46206	DANV_T2	1	1	0	1.4	1.6	0.2	3.44	3.38	1	1	0	1200	1200	0
6/3/2024 22:39	43105	SMIL_T2	2	7	5	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
6/3/2024 22:39	43103	SMIL_T2	2	7	5	0.15	0.26	0.11	0	0	0	0	0	0	0	0
6/3/2024 22:39	43102	SMIL_T2	4	6	2	0.38	0.47	0.09	-0.7	-0.7	1	1	0	600	600	0
6/3/2024 22:39	14802	TREI_T2	0	0	0	0	0	0	0.55	0.51	0	0	0	0	0	0
6/3/2024 22:39	44502	HAMI_T2	1	1	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
6/3/2024 22:39	46504	LOHA_T1	28	46	18	0.25	0.4	0.15	0	0	0	0	0	0	0	0
6/3/2024 22:39	53903	HALI_T2	2	2	0	1	1.2	0.2	-0.07	-0.07	0	0	0	0	0	0
6/3/2024 22:39	47101	MARL_T1	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
6/3/2024 22:39	58702	ROSE_T2	0	0	0	0	0	0	-2.29	-2.28	0	0	0	0	0	0
6/3/2024 22:39	58401	MORO_T1	0	0	0	0	0	0	-1.49	-0.88	1	2	1	600	1200	600
6/3/2024 22:39	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:40	46504	LOHA_T1	28	46	18	0.25	0.4	0.15	0	0	0	0	0	0	0	0
6/3/2024 22:40	55002	NEWP_T1	2	2	0	0.15	0.45	0.3	-0.21	-0.21	0	0	0	0	0	0
6/3/2024 22:40	66502	MOJO_T2	0	0	0	0	0	0	-1.48	-1.55	1	1	0	900	900	0
6/3/2024 22:40	43105	SMIL_T2	2	7	5	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
6/3/2024 22:40	46903	MNTG_T2	0	0	0	0	0	0	-0.02	-0.08	1	1	0	600	600	0
6/3/2024 22:40	57306	MOAL_T2	0	0	0	0	0	0	-2.89	-2.94	1	1	0	1200	1200	0
6/3/2024 22:40	43103	SMIL_T2	2	7	5	0.15	0.26	0.11	-0.68	-0.66	0	0	0	0	0	0
6/3/2024 22:40	46506	LOHA_T1	1	1	0	0.7	0.6	-0.1	-0.32	-0.33	0	0	0	0	0	0
6/3/2024 22:40	43102	SMIL_T2	4	6	2	0.38	0.47	0.09	0	0	0	0	0	0	0	0
6/3/2024 22:40	52002	LING_T2	0	0	0	0	0	0	0.19	0.1	0	0	0	0	0	0
6/3/2024 22:40	48901	FOSP_T2	0	0	0	0	0	0	0.32	0.28	0	0	0	0	0	0
6/3/2024 22:40	52501	PROG_T1	0	0	0	0	0	0	0.71	0.68	1	1	0	300	300	0
6/3/2024 22:40	55101	WERT_T1	0	0	0	0	0	0	-1.95	-2	3	3	0	2400	2400	0
6/3/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	0.19	0.15	0	0	0	0	0	0
6/3/2024 22:40	56801	BENV_T1	7	12	5	0.37	1.28	0.91	-2.53	-2.68	3	3	0	1800	1800	0
6/3/2024 22:40	57303	MOAL_T2	1	1	0	8.2	7.9	-0.3	0	0	0	0	0	0	0	0
6/3/2024 22:41	57303	MOAL_T2	1	1	0	8.2	7.9	-0.3	0	0	0	0	0	0	0	0
6/3/2024 22:41	43102	SMIL_T2	4	6	2	0.38	0.47	0.09	0	0	0	0	0	0	0	0
6/3/2024 22:41	57304	MOAL_T2	0	0	0	0	0	0	-0.24	-0.29	0	0	0	0	0	0
6/3/2024 22:41	64101	REFR_T1	0	0	0	0	0	0	0.19	0.15	0	0	0	0	0	0
6/3/2024 22:41	43103	SMIL_T2	2	7	5	0.15	0.26	0.11	0	0	0	0	0	0	0	0
6/3/2024 22:41	61803	EELI_T2	0	0	0	0	0	0	0.12	0.13	1	1	0	600	600	0
6/3/2024 22:41	61801	EELI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/3/2024 22:41	58401	MORO_T1	0	0	0	0	0	0	-1.49	-0.88	2	1	-1	1200	600	-600
6/3/2024 22:41	46206	DANV_T2	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
6/3/2024 22:41	43105	SMIL_T2	2	7	5	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
6/3/2024 22:41	44301	BEAV_T2	1	1	0	0.7	0	-0.7	0.4	0.39	1	1	0	600	600	0
6/3/2024 22:41	46801	HEPB_T2	2	0	-2	0.2	0	-0.2	0.73	0.7	0	0	0	0	0	0
6/3/2024 22:41	52402	GRPA_T2	0	1	1	0	0.4	0.4	-0.82	-0.77	0	0	0	0	0	0
6/3/2024 22:41	43104	SMIL_T2	0	0	0	0	0	0	-0.64	-0.66	1	1	0	300	300	0
6/3/2024 22:41	43301	WATS_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/3/2024 22:41	55101	WERT_T1	0	0	0	0	0	0	-1.95	-2	3	3	0	2400	2400	0
6/3/2024 22:41	43302	WATS_T2	4	3	-1	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
6/3/2024 22:41	46203	DANV_T2	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
6/3/2024 22:41	67605	WARW_T1	0	0	0	0	0	0	-1.16	-1.17	0	0	0	0	0	0
6/3/2024 22:41	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:41	47101	MARL_T1	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
6/3/2024 22:41	52401	GRPA_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
6/3/2024 22:42	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:42	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:42	53501	EVIL_T2	2	2	0	0.95	1.1	0.15	-0.72	-0.77	1	1	0	600	600	0
6/3/2024 22:42	56801	BENV_T1	7	12	5	0.37	1.28	0.91	-1.69	-1.79	2	2	0	1200	1200	0
6/3/2024 22:42	41902	REED_T1	0	0	0	0	0	0	1.11	1.13	0	0	0	0	0	0
6/3/2024 22:42	43301	WATS_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/3/2024 22:42	41901	REED_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/3/2024 22:42	43302	WATS_T2	4	3	-1	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
6/3/2024 22:42	40801	EXCH_T2	0	0	0	0	0	0	-0.33	-0.36	1	1	0	1200	1200	0
6/3/2024 22:43	52402	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/3/2024 22:43	40902	JESH_T1	0	0	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
6/3/2024 22:43	67402	WAKE_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
6/3/2024 22:43	40901	JESH_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/3/2024 22:43	56801	BENV_T1	7	12	5	0.37	1.28	0.91	-1.69	-1.79	2	2	0	1200	1200	0
6/3/2024 22:43	52403	GRPA_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
6/3/2024 22:43	52401	GRPA_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
6/3/2024 22:43	52002	LING_T2	0	0	0	0	0	0	0.19	0.1	0	0	0	0	0	0
6/3/2024 22:44	56801	BENV_T1	7	12	5	0.37	1.28	0.91	-0.84	-0.89	1	1	0	600	600	0
6/3/2024 22:44	43301	WATS_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/3/2024 22:44	40802	EXCH_T2	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
6/3/2024 22:44	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:44	43302	WATS_T2	4	3	-1	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
6/3/2024 22:44	63304	GREE_T1	0	0	0	0	0	0	-1.47	-1.55	0	0	0	0	0	0
6/3/2024 22:44	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:45	56801	BENV_T1	12	12	0	0.6	1.33	0.73	-0.84	-0.89	1	1	0	600	600	0
6/3/2024 22:45	59101	WALK_T2	0	0	0	0	0	0	0.94	1.06	1	1	0	600	600	0
6/3/2024 22:46	52002	LING_T2	0	0	0	0	0	0	0.19	0.1	0	0	0	0	0	0
6/3/2024 22:46	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 22:46	57401	SPAN_T1	0	0	0	0	0	0	-0.9	-0.93	1	1	0	600	600	0
6/3/2024 22:46	46504	LOHA_T1	2	46	44	1.25	0.4	-0.85	0	0	0	0	0	0	0	0
6/3/2024 22:46	46506	LOHA_T1	0	1	1	0	0.7	0.7	-0.32	-0.33	0	0	0	0	0	0
6/3/2024 22:47	43102	SMIL_T2	5	5	0	0.52	0.46	-0.06	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/3/2024 22:47	53903	HALI_T2	2	2	0	0.85	1.2	0.35	-0.07	-0.07	0	0	0	0	0	0
6/3/2024 22:47	43105	SMIL_T2	7	5	-2	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
6/3/2024 22:47	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
6/3/2024 22:47	45501	DERR_T2	0	0	0	0	0	0	-0.14	-0.2	2	2	0	1800	1800	0
6/3/2024 22:47	43103	SMIL_T2	3	7	4	0.3	0.26	-0.04	-0.68	-0.66	0	0	0	0	0	0
6/3/2024 22:47	53901	HALI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/3/2024 22:48	49804	UNIV_T1	1	0	-1	0.1	0	-0.1	0.7	0.66	0	0	0	0	0	0
6/3/2024 22:48	41902	REED_T1	0	0	0	0	0	0	1.11	1.13	0	0	0	0	0	0
6/3/2024 22:50	43402	BENT_T1	0	1	1	0	0	0	-0.9	-0.91	1	1	0	900	900	0
6/3/2024 22:51	43402	BENT_T1	0	1	1	0	0	0	-0.9	-0.91	1	1	0	900	900	0
6/3/2024 22:51	59101	WALK_T2	0	0	0	0	0	0	0.94	1.06	1	1	0	600	600	0
6/3/2024 22:57	64204	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/3/2024 22:57	64203	KINZ_T1	0	0	0	0	0	0	0.71	0.66	0	0	0	0	0	0
6/3/2024 22:57	64201	KINZ_T1	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
6/3/2024 22:58	64204	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/3/2024 22:58	64203	KINZ_T1	0	0	0	0	0	0	0.71	0.66	0	0	0	0	0	0
6/3/2024 22:58	64201	KINZ_T1	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
6/3/2024 23:06	11104	EGYP_T1	0	0	0	0	0	0	0.38	0.72	0	0	0	0	0	0
6/3/2024 23:07	67603	WARW_T1	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
6/3/2024 23:07	67605	WARW_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/3/2024 23:12	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.91	1	1	0	900	900	0
6/3/2024 23:13	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.91	1	1	0	900	900	0
6/3/2024 23:13	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2024 23:19	64204	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/3/2024 23:19	64203	KINZ_T1	0	0	0	0	0	0	0.66	0.69	0	0	0	0	0	0
6/3/2024 23:19	64201	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/3/2024 23:20	64201	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/3/2024 23:20	64203	KINZ_T1	0	0	0	0	0	0	0.66	0.69	0	0	0	0	0	0
6/3/2024 23:20	64204	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/3/2024 23:23	67605	WARW_T1	0	3	3	0	0.3	0.3	-1.05	-1.05	0	0	0	0	0	0
6/3/2024 23:24	67605	WARW_T1	0	3	3	0	0.3	0.3	-1.05	-1.05	0	0	0	0	0	0
6/3/2024 23:34	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	900	900	0
6/3/2024 23:35	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	900	900	0
6/3/2024 23:42	64201	KINZ_T1	1	1	0	0.3	1.3	1	0	0	0	0	0	0	0	0
6/3/2024 23:42	64204	KINZ_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
6/3/2024 23:42	64202	KINZ_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/3/2024 23:42	64203	KINZ_T1	0	0	0	0	0	0	0.66	0.62	0	0	0	0	0	0
6/3/2024 23:43	64201	KINZ_T1	1	1	0	0.3	1.3	1	0	0	0	0	0	0	0	0
6/3/2024 23:43	64203	KINZ_T1	0	0	0	0	0	0	0.66	0.62	0	0	0	0	0	0
6/3/2024 23:43	64204	KINZ_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
6/3/2024 23:43	64202	KINZ_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/3/2024 23:57	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.93	1	1	0	900	900	0
6/3/2024 23:58	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.93	1	1	0	900	900	0
6/4/2024 0:04	64201	KINZ_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
6/4/2024 0:04	64202	KINZ_T1	2	3	1	0.25	0.57	0.32	0	0	0	0	0	0	0	0
6/4/2024 0:04	64204	KINZ_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
6/4/2024 0:04	64203	KINZ_T1	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
6/4/2024 0:05	64204	KINZ_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
6/4/2024 0:05	64203	KINZ_T1	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
6/4/2024 0:05	64202	KINZ_T1	2	3	1	0.25	0.57	0.32	0	0	0	0	0	0	0	0
6/4/2024 0:05	64201	KINZ_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
6/4/2024 0:07	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 0:07	43301	WATS_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/4/2024 0:08	67605	WARW_T1	12	18	6	0.37	0.52	0.15	-1.08	-1.12	0	0	0	0	0	0
6/4/2024 0:09	67605	WARW_T1	12	18	6	0.37	0.52	0.15	-1.08	-1.12	0	0	0	0	0	0
6/4/2024 0:19	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
6/4/2024 0:20	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
6/4/2024 0:27	64202	KINZ_T1	3	3	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/4/2024 0:27	64203	KINZ_T1	0	0	0	0	0	0	0.61	0.54	0	0	0	0	0	0
6/4/2024 0:27	64201	KINZ_T1	1	2	1	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
6/4/2024 0:27	64204	KINZ_T1	1	2	1	1.3	0.75	-0.55	0	0	0	0	0	0	0	0
6/4/2024 0:28	64204	KINZ_T1	1	2	1	1.3	0.75	-0.55	0	0	0	0	0	0	0	0
6/4/2024 0:28	64203	KINZ_T1	0	0	0	0	0	0	0.61	0.54	0	0	0	0	0	0
6/4/2024 0:28	64202	KINZ_T1	3	3	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/4/2024 0:28	64201	KINZ_T1	1	2	1	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
6/4/2024 0:42	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
6/4/2024 0:43	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
6/4/2024 0:50	64202	KINZ_T1	3	3	0	0.57	0.83	0.26	0	0	0	0	0	0	0	0
6/4/2024 0:50	64204	KINZ_T1	2	5	3	0.75	0.38	-0.37	0	0	0	0	0	0	0	0
6/4/2024 0:50	64201	KINZ_T1	2	4	2	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
6/4/2024 0:50	64203	KINZ_T1	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
6/4/2024 0:51	64204	KINZ_T1	2	5	3	0.75	0.38	-0.37	0	0	0	0	0	0	0	0
6/4/2024 0:51	64203	KINZ_T1	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
6/4/2024 0:51	64202	KINZ_T1	3	3	0	0.57	0.83	0.26	0	0	0	0	0	0	0	0
6/4/2024 0:51	64201	KINZ_T1	2	4	2	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
6/4/2024 1:13	64203	KINZ_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
6/4/2024 1:13	64202	KINZ_T1	3	3	0	0.83	0.83	0	0	0	0	0	0	0	0	0
6/4/2024 1:13	64204	KINZ_T1	4	5	1	0.45	0.28	-0.17	0	0	0	0	0	0	0	0
6/4/2024 1:13	64201	KINZ_T1	3	4	1	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
6/4/2024 1:14	64202	KINZ_T1	3	3	0	0.83	0.83	0	0	0	0	0	0	0	0	0
6/4/2024 1:14	64204	KINZ_T1	4	5	1	0.45	0.28	-0.17	0	0	0	0	0	0	0	0
6/4/2024 1:14	64203	KINZ_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
6/4/2024 1:14	64201	KINZ_T1	3	4	1	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
6/4/2024 1:17	67605	WARW_T1	26	34	8	0.5	0.56	0.06	-1.17	-1.19	0	0	0	0	0	0
6/4/2024 1:18	67605	WARW_T1	26	34	8	0.5	0.56	0.06	-1.17	-1.19	0	0	0	0	0	0
6/4/2024 1:28	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
6/4/2024 1:29	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
6/4/2024 1:36	64203	KINZ_T1	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
6/4/2024 1:36	64202	KINZ_T1	3	6	3	0.83	0.52	-0.31	0	0	0	0	0	0	0	0
6/4/2024 1:36	64204	KINZ_T1	2	33	31	0.55	0.25	-0.3	0	0	0	0	0	0	0	0
6/4/2024 1:36	64201	KINZ_T1	3	9	6	0.57	0.41	-0.16	0	0	0	0	0	0	0	0
6/4/2024 1:37	64203	KINZ_T1	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
6/4/2024 1:37	64201	KINZ_T1	3	9	6	0.57	0.41	-0.16	0	0	0	0	0	0	0	0
6/4/2024 1:37	64202	KINZ_T1	3	6	3	0.83	0.52	-0.31	0	0	0	0	0	0	0	0
6/4/2024 1:37	64204	KINZ_T1	2	33	31	0.55	0.25	-0.3	0	0	0	0	0	0	0	0
6/4/2024 1:40	67605	WARW_T1	32	39	7	0.57	0.6	0.03	-1.2	-1.19	0	0	0	0	0	0
6/4/2024 1:41	67605	WARW_T1	32	39	7	0.57	0.6	0.03	-1.2	-1.19	0	0	0	0	0	0
6/4/2024 1:47	65503	MOJO_T2	0	0	0	0	0	0	-1.14	-1.17	1	1	0	900	900	0
6/4/2024 1:50	65503	MOJO_T2	0	0	0	0	0	0	-1.14	-1.17	1	1	0	900	900	0
6/4/2024 1:52	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.94	1	1	0	900	900	0
6/4/2024 1:52	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 1:53	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
6/4/2024 1:53	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 2:14	43108	SMIL_T2	0	0	0	0	0	0	-1.04	-1.03	1	1	0	1200	1200	0
6/4/2024 2:14	43103	SMIL_T2	10	3	-7	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/4/2024 2:14	43102	SMIL_T2	6	9	3	0.4	0.4	0	0	0	0	0	0	0	0	0
6/4/2024 2:18	64201	KINZ_T1	7	1	-6	0.3	0.8	0.5	0	0	0	0	0	0	0	0
6/4/2024 2:18	64204	KINZ_T1	20	1	-19	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/4/2024 2:18	64202	KINZ_T1	3	2	-1	0.43	0.25	-0.18	0.79	0.81	0	0	0	0	0	0
6/4/2024 2:27	67605	WARW_T1	74	16	-58	0.4	0.64	0.24	-1.23	-1.26	0	0	0	0	0	0
6/4/2024 2:28	67605	WARW_T1	74	16	-58	0.4	0.64	0.24	-1.23	-1.26	0	0	0	0	0	0
6/4/2024 2:47	67605	WARW_T1	14	14	0	0.52	0.62	0.1	-1.26	-1.24	0	0	0	0	0	0
6/4/2024 2:48	67605	WARW_T1	14	14	0	0.52	0.62	0.1	-1.26	-1.24	0	0	0	0	0	0
6/4/2024 3:07	67605	WARW_T1	14	15	1	0.61	0.65	0.04	-1.24	-2.47	0	0	0	0	0	0
6/4/2024 3:08	67605	WARW_T1	14	15	1	0.61	0.65	0.04	-1.26	-2.49	0	0	0	0	0	0
6/4/2024 3:35	67605	WARW_T1	15	16	1	0.65	0.67	0.02	-2.49	-2.47	0	0	0	0	0	0
6/4/2024 4:45	67605	WARW_T1	15	26	11	0.67	0.56	-0.11	-2.49	-2.47	0	0	0	0	0	0
6/4/2024 4:59	28403	HART_T2	0	0	0	0	0	0	-1.94	-1.96	2	2	0	1800	1800	0
6/4/2024 6:10	29402	BELT_T1	1	1	0	6.8	7.7	0.9	0	0	0	0	0	0	0	0
6/4/2024 6:10	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/4/2024 6:39	67703	WERN_T2	0	0	0	0	0	0	-3.27	-3.13	4	4	0	3600	3600	0
6/4/2024 6:40	67703	WERN_T2	0	0	0	0	0	0	-1.64	-1.56	2	2	0	1800	1800	0
6/4/2024 6:43	67703	WERN_T2	0	0	0	0	0	0	-1.64	-1.56	2	2	0	1800	1800	0
6/4/2024 6:44	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/4/2024 6:44	29402	BELT_T1	1	1	0	7.3	8	0.7	0	0	0	0	0	0	0	0
6/4/2024 6:51	65904	SAKR_T2	0	0	0	0	0	0	-6.62	-6.54	12	12	0	6000	6000	0
6/4/2024 6:51	65901	SAKR_T2	1	1	0	8.4	8.1	-0.3	0	0	0	0	0	0	0	0
6/4/2024 6:52	64904	MILL_T1	0	1	1	0	0	0	-0.73	-0.74	0	0	0	0	0	0
6/4/2024 6:52	24204	PROV_T3	1	1	0	6.7	6.4	-0.3	0	0	0	0	0	0	0	0
6/4/2024 6:52	24201	PROV_T3	1	1	0	6.8	6.4	-0.4	-2.55	-2.52	2	2	0	2400	2400	0
6/4/2024 6:54	15204	SFAR_T2	0	0	0	0	0	0	0.16	0.22	0	0	0	0	0	0
6/4/2024 6:57	67702	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
6/4/2024 7:00	63804	HEMP_T1	1	1	0	5.5	6	0.5	0	0	0	0	0	0	0	0
6/4/2024 7:00	63801	HEMP_T1	0	0	0	0	0	0	-1.02	-0.76	2	2	0	1800	1800	0
6/4/2024 7:04	12502	MITR_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
6/4/2024 7:04	12505	MITR_T2	0	0	0	0	0	0	2.42	2.5	0	0	0	0	0	0
6/4/2024 7:06	12502	MITR_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
6/4/2024 7:06	58402	MORO_T1	1	1	0	0.4	0.1	-0.3	-1.84	-1.87	6	6	0	4800	4800	0
6/4/2024 7:06	12505	MITR_T2	0	0	0	0	0	0	2.46	2.54	0	0	0	0	0	0
6/4/2024 7:08	40301	TAMA_T3	1	1	0	0	0	0	2.29	2.19	2	2	0	2400	2400	0
6/4/2024 7:09	67501	WEWI_T1	1	53	52	0.2	0.18	-0.02	-1.96	-1.8	2	2	0	1200	1200	0
6/4/2024 7:09	67502	WEWI_T2	0	0	0	0	0	0	-0.25	-0.36	2	0	-2	1800	0	-1800
6/4/2024 7:10	16302	ALPA_T2	0	0	0	0	0	0	3.66	3.45	0	0	0	0	0	0
6/4/2024 7:10	67501	WEWI_T1	1	53	52	0.2	0.18	-0.02	-1.96	-1.8	2	2	0	1200	1200	0
6/4/2024 7:11	67502	WEWI_T2	0	0	0	0	0	0	-0.25	-0.36	2	0	-2	1800	0	-1800
6/4/2024 7:11	16302	ALPA_T2	0	0	0	0	0	0	1.83	1.72	0	0	0	0	0	0
6/4/2024 7:12	23604	WRIG_T1	0	0	0	0	0	0	0.86	0.79	0	0	0	0	0	0
6/4/2024 7:12	16302	ALPA_T2	0	0	0	0	0	0	3.66	3.45	0	0	0	0	0	0
6/4/2024 7:13	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/4/2024 7:13	16301	ALPA_T1	0	0	0	0	0	0	-1.75	-1.43	0	0	0	0	0	0
6/4/2024 7:13	29402	BELT_T1	1	1	0	8	7.5	-0.5	0	0	0	0	0	0	0	0
6/4/2024 7:14	45902	AUBU_T1	0	0	0	0	0	0	-1.42	-1.37	2	2	0	1200	1200	0
6/4/2024 7:14	16301	ALPA_T1	0	0	0	0	0	0	-0.58	-0.48	0	0	0	0	0	0
6/4/2024 7:17	13502	MCMI_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 7:17	13501	MCMI_T1	0	0	0	0	0	0	0.09	0.13	0	0	0	0	0	0
6/4/2024 7:24	13704	SCHN_T2	0	0	0	0	0	0	-0.04	-0.09	0	0	0	0	0	0
6/4/2024 7:25	58006	WCAR_T2	0	0	0	0	0	0	0.64	0.68	0	0	0	0	0	0
6/4/2024 7:25	15203	SFAR_T2	0	0	0	0	0	0	-2	-1.97	0	0	0	0	0	0
6/4/2024 7:28	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/4/2024 7:28	67602	WARW_T2	0	0	0	0	0	0	-0.52	-0.36	8	8	0	6000	6000	0
6/4/2024 7:28	56802	BENV_T2	1	2	1	0.8	0.5	-0.3	-2.82	-2.75	0	0	0	0	0	0
6/4/2024 7:28	29402	BELT_T1	1	1	0	7.5	8.4	0.9	0	0	0	0	0	0	0	0
6/4/2024 7:29	20403	ASHF_T2	0	0	0	0	0	0	3.07	3.05	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/4/2024 7:29	20401	ASHF_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
6/4/2024 7:31	45501	DERR_T2	1	1	0	0.5	0.5	0	1.98	1.94	4	4	0	3600	3600	0
6/4/2024 7:31	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 7:32	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 7:39	13303	ORVI_T1	0	0	0	0	0	0	-0.34	-0.1	0	0	0	0	0	0
6/4/2024 7:42	56802	BENV_T2	1	1	0	0.5	0.4	-0.1	-5.5	-5.42	0	0	0	0	0	0
6/4/2024 7:43	56802	BENV_T2	1	1	0	0.5	0.4	-0.1	-5.5	-5.42	0	0	0	0	0	0
6/4/2024 7:44	45501	DERR_T2	1	1	0	0.5	0.5	0	1.94	1.95	4	4	0	3600	3600	0
6/4/2024 7:44	41502	FAIR_T2	0	0	0	0	0	0	-3.31	-3.28	2	2	0	1800	1800	0
6/4/2024 7:55	29402	BELT_T1	1	1	0	8.4	7.9	-0.5	0	0	0	0	0	0	0	0
6/4/2024 7:55	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/4/2024 7:55	67703	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 7:55	67702	WERN_T2	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
6/4/2024 7:55	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 7:57	12601	MACA_T1	0	0	0	0	0	0	1.86	2.06	0	0	0	0	0	0
6/4/2024 7:57	67702	WERN_T2	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
6/4/2024 7:57	67703	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 7:58	20401	ASHF_T2	2	2	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/4/2024 7:58	21203	ECAR_T1	0	0	0	0	0	0	-0.2	-0.27	0	0	0	0	0	0
6/4/2024 7:58	20403	ASHF_T2	0	2	2	0	0.3	0.3	2.9	2.55	0	0	0	0	0	0
6/4/2024 8:03	40101	HUNT_T2	0	2	2	0	0	0	-0.33	-0.32	0	0	0	0	0	0
6/4/2024 8:04	64203	KINZ_T1	0	1	1	0	0	0	2.14	2.21	4	4	0	1800	1800	0
6/4/2024 8:04	64204	KINZ_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
6/4/2024 8:07	58402	MORO_T1	1	1	0	3.3	0	-3.3	0	0	0	0	0	0	0	0
6/4/2024 8:07	58401	MORO_T1	0	0	0	0	0	0	-1.07	-0.97	2	2	0	1200	1200	0
6/4/2024 8:08	15203	SFAR_T2	0	0	0	0	0	0	-1.87	-1.75	0	0	0	0	0	0
6/4/2024 8:10	67703	WERN_T2	0	1	1	0	10	10	0.04	0.06	2	2	0	1800	1800	0
6/4/2024 8:10	67605	WARW_T1	1	4	3	0.2	0.23	0.03	-1.84	-1.78	0	0	0	0	0	0
6/4/2024 8:11	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/4/2024 8:11	56801	BENV_T1	14	15	1	1.17	0.75	-0.42	0	0	0	0	0	0	0	0
6/4/2024 8:11	29402	BELT_T1	1	1	0	7.9	7.8	-0.1	0	0	0	0	0	0	0	0
6/4/2024 8:11	20401	ASHF_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/4/2024 8:11	20403	ASHF_T2	0	2	2	0	0.3	0.3	2.55	2.64	0	0	0	0	0	0
6/4/2024 8:11	56803	BENV_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
6/4/2024 8:12	56801	BENV_T1	14	15	1	1.17	0.75	-0.42	0	0	0	0	0	0	0	0
6/4/2024 8:12	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.66	0	0	0	0	0	0
6/4/2024 8:12	15703	TANN_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
6/4/2024 8:12	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/4/2024 8:12	29402	BELT_T1	1	1	0	7.9	7.8	-0.1	0	0	0	0	0	0	0	0
6/4/2024 8:12	56803	BENV_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
6/4/2024 8:14	56802	BENV_T2	1	66	65	0.3	0.18	-0.12	-2.63	-2.59	0	0	0	0	0	0
6/4/2024 8:14	26603	BROO_T1	1	1	0	0.7	0.1	-0.6	0.24	0.2	0	0	0	0	0	0
6/4/2024 8:15	26603	BROO_T1	1	1	0	0.1	0	-0.1	0.24	0.2	0	0	0	0	0	0
6/4/2024 8:15	56801	BENV_T1	15	16	1	0.72	0.86	0.14	0	0	0	0	0	0	0	0
6/4/2024 8:15	56803	BENV_T1	0	1	1	0	0	0	-0.36	-0.38	0	0	0	0	0	0
6/4/2024 8:20	58402	MORO_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/4/2024 8:20	58401	MORO_T1	0	0	0	0	0	0	-1.01	-0.97	2	2	0	1200	1200	0
6/4/2024 8:24	60305	TWVA_T2	0	0	0	0	0	0	-1.66	-3.32	4	4	0	4800	4800	0
6/4/2024 8:24	67703	WERN_T2	0	0	0	0	0	0	0.06	0.09	2	2	0	1800	1800	0
6/4/2024 8:27	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	4	4	0	3600	3600	0
6/4/2024 8:27	29402	BELT_T1	1	1	0	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
6/4/2024 8:29	46206	DANV_T2	2	8	6	1.7	0.9	-0.8	13.88	13.72	4	4	0	4800	4800	0
6/4/2024 8:30	67605	WARW_T1	1	8	7	0.3	0.25	-0.05	-1.78	-1.72	0	0	0	0	0	0
6/4/2024 8:31	67605	WARW_T1	1	8	7	0.3	0.25	-0.05	-1.78	-1.72	0	0	0	0	0	0
6/4/2024 8:36	47001	HUGH_T2	0	0	0	0	0	0	-1.24	-1.17	0	0	0	0	0	0
6/4/2024 8:38	67204	TEHI_T2	0	0	0	0	0	0	-0.75	-0.5	0	0	0	0	0	0
6/4/2024 8:38	14404	SSLA_T1	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
6/4/2024 8:38	14403	SSLA_T1	0	0	0	0	0	0	2.16	2.14	0	0	0	0	0	0
6/4/2024 8:39	14404	SSLA_T1	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
6/4/2024 8:39	67501	WEWI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 8:39	14403	SSLA_T1	0	0	0	0	0	0	2.16	2.14	0	0	0	0	0	0
6/4/2024 8:39	67505	WEWI_T1	0	0	0	0	0	0	0.58	0.14	2	2	0	1800	1800	0
6/4/2024 8:40	67605	WARW_T1	1	8	7	0.3	0.25	-0.05	-1.72	-1.66	0	0	0	0	0	0
6/4/2024 8:40	56802	BENV_T2	26	18	-8	0.23	0.24	0.01	-2.53	-1.09	0	0	0	0	0	0
6/4/2024 8:41	67602	WARW_T2	0	0	0	0	0	0	0.1	0.21	4	4	0	3000	3000	0
6/4/2024 8:41	67605	WARW_T1	1	8	7	0.3	0.25	-0.05	-1.72	-1.66	0	0	0	0	0	0
6/4/2024 8:42	56802	BENV_T2	26	18	-8	0.23	0.24	0.01	-12.63	-5.46	0	0	0	0	0	0
6/4/2024 8:42	67505	WEWI_T1	0	0	0	0	0	0	0.58	0.14	2	2	0	1800	1800	0
6/4/2024 8:42	67501	WEWI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 8:42	67803	WLAN_T1	0	0	0	0	0	0	-1.44	-1.39	0	0	0	0	0	0
6/4/2024 8:42	67204	TEHI_T2	0	0	0	0	0	0	-0.75	-0.5	0	0	0	0	0	0
6/4/2024 8:43	29402	BELT_T1	1	1	0	7.7	7.7	0	0	0	0	0	0	0	0	0
6/4/2024 8:43	56802	BENV_T2	26	18	-8	0.23	0.24	0.01	-5.05	-2.18	0	0	0	0	0	0
6/4/2024 8:43	29401	BELT_T1	0	2	2	0	0.15	0.15	0	0	6	6	0	5400	5400	0
6/4/2024 8:44	56802	BENV_T2	26	18	-8	0.23	0.24	0.01	-2.53	-1.09	0	0	0	0	0	0
6/4/2024 8:44	67605	WARW_T1	1	8	7	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
6/4/2024 8:44	67604	WARW_T1	0	0	0	0	0	0	0.58	0.62	0	0	0	0	0	0
6/4/2024 8:45	56802	BENV_T2	18	2	-16	0.24	0.55	0.31	-2.53	-1.09	0	0	0	0	0	0
6/4/2024 8:46	56802	BENV_T2	18	2	-16	0.24	0.55	0.31	-2.53	-1.09	0	0	0	0	0	0
6/4/2024 8:46	46206	DANV_T2	8	8	0	0.75	1	0.25	6.86	6.9	2	2	0	2400	2400	0
6/4/2024 8:47	56802	BENV_T2	18	2	-16	0.24	0.55	0.31	-2.53	-1.09	0	0	0	0	0	0
6/4/2024 8:47	47001	HUGH_T2	0	0	0	0	0	0	-1.24	-1.1	0	0	0	0	0	0
6/4/2024 8:49	47401	PENS_T1	2	2	0	0.25	0.3	0.05	2.4	2.41	0	0	0	0	0	0
6/4/2024 8:49	47403	PENS_T1	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
6/4/2024 8:50	65004	NEFF_T2	0	0	0	0	0	0	-1.63	-1.59	2	2	0	1200	1200	0
6/4/2024 8:51	67605	WARW_T1	8	2	-6	0.25	0.35	0.1	-1.69	-1.63	0	0	0	0	0	0
6/4/2024 8:51	47403	PENS_T1	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
6/4/2024 8:51	47401	PENS_T1	2	2	0	0.25	0.3	0.05	2.41	2.45	0	0	0	0	0	0
6/4/2024 8:52	67204	TEHI_T2	0	0	0	0	0	0	-0.61	-0.5	0	0	0	0	0	0
6/4/2024 8:52	41902	REED_T1	0	0	0	0	0	0	2.47	2.51	0	0	0	0	0	0
6/4/2024 8:52	67605	WARW_T1	8	2	-6	0.25	0.35	0.1	-1.69	-1.63	0	0	0	0	0	0
6/4/2024 8:54	67204	TEHI_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
6/4/2024 8:54	41902	REED_T1	0	0	0	0	0	0	2.47	2.53	0	0	0	0	0	0
6/4/2024 8:55	58001	WCAR_T1	4	4	0	1.13	0.83	-0.3	2.05	2.05	0	0	0	0	0	0
6/4/2024 8:55	58003	WCAR_T1	7	4	-3	0.41	0.7	0.29	0	0	0	0	0	0	0	0
6/4/2024 8:56	56802	BENV_T2	18	2	-16	0.24	0.55	0.31	-1.09	-2.39	0	0	0	0	0	0
6/4/2024 8:57	56803	BENV_T1	1	1	0	1.8	0	-1.8	0	0	0	0	0	0	0	0
6/4/2024 8:57	56801	BENV_T1	16	16	0	0.86	0.89	0.03	-0.04	-0.03	4	4	0	2400	2400	0
6/4/2024 8:58	24902	WHHA_T1	0	0	0	0	0	0	0.9	0.88	0	0	0	0	0	0
6/4/2024 8:58	56803	BENV_T1	1	1	0	1.8	0	-1.8	0	0	0	0	0	0	0	0
6/4/2024 8:58	56801	BENV_T1	16	16	0	0.86	0.89	0.03	-0.04	-0.03	4	4	0	2400	2400	0
6/4/2024 8:59	56803	BENV_T1	1	1	0	1.8	0	-1.8	0	0	0	0	0	0	0	0
6/4/2024 8:59	56801	BENV_T1	16	16	0	0.86	0.89	0.03	-0.02	-0.01	2	2	0	1200	1200	0
6/4/2024 9:00	56801	BENV_T1	15	16	1	0.92	0.93	0.01	-0.02	-0.01	2	2	0	1200	1200	0
6/4/2024 9:00	56601	HAMP_T1	0	0	0	0	0	0	-2.98	-2.82	0	0	0	0	0	0
6/4/2024 9:00	56803	BENV_T1	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
6/4/2024 9:01	56801	BENV_T1	15	16	1	0.92	0.93	0.01	-0.02	-0.01	2	2	0	1200	1200	0
6/4/2024 9:01	56601	HAMP_T1	0	0	0	0	0	0	-2.98	-2.82	0	0	0	0	0	0
6/4/2024 9:01	56803	BENV_T1	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
6/4/2024 9:02	64204	KINZ_T1	1	2	1	1	0.65	-0.35	0	0	0	0	0	0	0	0
6/4/2024 9:02	53502	EVIL_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/4/2024 9:02	53501	EVIL_T2	0	2	2	0	0.55	0.55	-0.24	-0.26	4	4	0	2400	2400	0
6/4/2024 9:02	64201	KINZ_T1	0	0	0	0	0	0	-0.69	-0.55	8	8	0	4200	4200	0
6/4/2024 9:03	53501	EVIL_T2	0	2	2	0	0.55	0.55	-0.24	-0.26	4	4	0	2400	2400	0
6/4/2024 9:03	53502	EVIL_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/4/2024 9:04	67201	TEHI_T1	19	17	-2	0.65	0.55	-0.1	4.06	3.82	2	2	0	1200	1200	0
6/4/2024 9:04	59301	MCAL_T1	0	0	0	0	0	0	-2	-1.92	0	0	0	0	0	0
6/4/2024 9:04	61101	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/4/2024 9:04	67702	WERN_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
6/4/2024 9:04	67203	TEHI_T1	2	0	-2	0.25	0	-0.25	4.28	3.27	8	8	0	6000	6000	0
6/4/2024 9:04	61102	BERK_T5	0	0	0	0	0	0	0.15	0.08	8	8	0	4800	4800	0
6/4/2024 9:05	12703	MACU_T2	0	0	0	0	0	0	-1.24	-1.16	0	0	0	0	0	0
6/4/2024 9:05	56801	BENV_T1	15	16	1	0.92	0.93	0.01	-0.02	-0.01	2	2	0	1200	1200	0
6/4/2024 9:05	55101	WERT_T1	0	0	0	0	0	0	-2.21	-2.01	6	6	0	4800	4800	0
6/4/2024 9:05	43402	BENT_T1	1	2	1	0.2	0.25	0.05	-1.2	-1.23	2	2	0	1800	1800	0
6/4/2024 9:05	15103	UPHA_T2	0	0	0	0	0	0	1.32	1.33	0	0	0	0	0	0
6/4/2024 9:05	16302	ALPA_T2	0	0	0	0	0	0	2.37	2.5	0	0	0	0	0	0
6/4/2024 9:05	46302	ROHR_T1	4	4	0	1.68	1.65	-0.03	0.39	0.39	0	0	0	0	0	0
6/4/2024 9:05	56803	BENV_T1	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
6/4/2024 9:06	54201	PENN_T1	38	10	-28	0.36	0.81	0.45	-1.22	-1.17	0	0	0	0	0	0
6/4/2024 9:06	64101	REFR_T1	0	0	0	0	0	0	0.3	0.46	0	0	0	0	0	0
6/4/2024 9:06	13503	MCMI_T2	1	2	1	0.4	0.4	0	-0.01	0	0	0	0	0	0	0
6/4/2024 9:06	54203	PENN_T1	18	18	0	0.72	0.68	-0.04	0	0	0	0	0	0	0	0
6/4/2024 9:07	54203	PENN_T1	18	18	0	0.72	0.68	-0.04	0	0	0	0	0	0	0	0
6/4/2024 9:07	54201	PENN_T1	38	10	-28	0.36	0.81	0.45	-1.2	-1.2	0	0	0	0	0	0
6/4/2024 9:07	64101	REFR_T1	0	0	0	0	0	0	0.3	0.46	0	0	0	0	0	0
6/4/2024 9:08	64101	REFR_T1	0	0	0	0	0	0	0.19	0.26	0	0	0	0	0	0
6/4/2024 9:08	54203	PENN_T1	18	18	0	0.72	0.68	-0.04	1.24	1.27	0	0	0	0	0	0
6/4/2024 9:08	54201	PENN_T1	38	10	-28	0.36	0.81	0.45	0	0	0	0	0	0	0	0
6/4/2024 9:09	43304	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
6/4/2024 9:09	64101	REFR_T1	0	0	0	0	0	0	0.58	0.77	0	0	0	0	0	0
6/4/2024 9:10	67503	WEWI_T2	0	0	0	0	0	0	0.25	0.31	0	0	0	0	0	0
6/4/2024 9:11	10805	CHHI_T2	1	2	1	9.2	4.85	-4.35	-1.18	-0.97	2	2	0	1200	1200	0
6/4/2024 9:11	43304	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
6/4/2024 9:13	67503	WEWI_T2	0	0	0	0	0	0	0.25	0.31	0	0	0	0	0	0
6/4/2024 9:13	20401	ASHF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/4/2024 9:13	20403	ASHF_T2	0	0	0	0	0	0	2.92	3.15	0	0	0	0	0	0
6/4/2024 9:14	20403	ASHF_T2	0	0	0	0	0	0	2.92	3.15	0	0	0	0	0	0
6/4/2024 9:14	29402	BELT_T1	1	1	0	7.4	7.7	0.3	0	0	0	0	0	0	0	0
6/4/2024 9:14	29401	BELT_T1	2	1	-1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
6/4/2024 9:14	20401	ASHF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/4/2024 9:15	45501	DERR_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/4/2024 9:15	45502	DERR_T2	0	0	0	0	0	0	0.38	0.26	0	0	0	0	0	0
6/4/2024 9:19	13704	SCHN_T2	0	0	0	0	0	0	0.49	0.55	0	0	0	0	0	0
6/4/2024 9:23	66504	SMAN_T2	0	0	0	0	0	0	-3.78	-3.61	2	4	2	2400	4800	2400
6/4/2024 9:24	64101	REFR_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
6/4/2024 9:26	66504	SMAN_T2	0	0	0	0	0	0	-1.89	-1.81	2	2	0	2400	2400	0
6/4/2024 9:29	56801	BENV_T1	13	12	-1	0.75	1.27	0.52	-0.06	-0.11	6	6	0	3600	3600	0
6/4/2024 9:29	16103	BING_T2	0	0	0	0	0	0	-2.28	-2.2	2	2	0	1800	1800	0
6/4/2024 9:29	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 9:30	56801	BENV_T1	11	9	-2	1.15	0.92	-0.23	-0.02	-0.04	2	2	0	1200	1200	0
6/4/2024 9:30	10805	CHHI_T2	2	3	1	4.95	5.05	0.1	-2.9	-2.72	6	6	0	3600	3600	0
6/4/2024 9:31	56801	BENV_T1	11	9	-2	1.15	0.92	-0.23	-0.02	-0.04	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/4/2024 9:32	56801	BENV_T1	11	9	-2	1.15	0.92	-0.23	-0.06	-0.11	6	6	0	3600	3600	0
6/4/2024 9:34	67605	WARW_T1	1	2	1	0.4	0.35	-0.05	-1.52	-1.39	0	0	0	0	0	0
6/4/2024 9:35	55002	NEWP_T1	8	11	3	0.88	0.82	-0.06	-0.63	-0.55	0	0	0	0	0	0
6/4/2024 9:35	67605	WARW_T1	1	2	1	0.4	0.35	-0.05	-1.52	-1.39	0	0	0	0	0	0
6/4/2024 9:35	55001	NEWP_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/4/2024 9:36	55002	NEWP_T1	8	11	3	0.88	0.82	-0.06	-0.31	-0.27	0	0	0	0	0	0
6/4/2024 9:36	55001	NEWP_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/4/2024 9:37	55001	NEWP_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/4/2024 9:37	55002	NEWP_T1	8	11	3	0.88	0.82	-0.06	-0.31	-0.27	0	0	0	0	0	0
6/4/2024 9:40	67702	WERN_T2	0	0	0	0	0	0	0.17	0.2	0	0	0	0	0	0
6/4/2024 9:42	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 9:44	60801	BUCK_T1	0	0	0	0	0	0	-0.44	-0.44	2	2	0	1200	1200	0
6/4/2024 9:45	56801	BENV_T1	9	8	-1	0.9	0.89	-0.01	-0.07	-0.12	4	4	0	2400	2400	0
6/4/2024 9:45	10801	CHHI_T1	3	5	2	0.93	0.92	-0.01	-2.72	-2.92	6	6	0	4200	4200	0
6/4/2024 9:45	45602	WOOL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/4/2024 9:45	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 9:46	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 9:46	60801	BUCK_T1	0	0	0	0	0	0	-0.44	-0.44	2	2	0	1200	1200	0
6/4/2024 9:46	11507	FREE_T2	1	1	0	0.4	0.7	0.3	2.67	2.75	0	0	0	0	0	0
6/4/2024 9:46	56801	BENV_T1	9	8	-1	0.9	0.89	-0.01	-0.04	-0.06	2	2	0	1200	1200	0
6/4/2024 9:46	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 9:47	56801	BENV_T1	9	8	-1	0.9	0.89	-0.01	-0.11	-0.18	6	6	0	3600	3600	0
6/4/2024 9:47	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 9:47	45602	WOOL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/4/2024 9:48	45501	DERR_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
6/4/2024 9:48	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 9:48	56801	BENV_T1	9	8	-1	0.9	0.89	-0.01	-0.04	-0.06	2	2	0	1200	1200	0
6/4/2024 9:48	45502	DERR_T2	0	0	0	0	0	0	0.28	0.23	0	0	0	0	0	0
6/4/2024 9:50	45602	WOOL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/4/2024 9:52	43201	MVIL_T2	0	0	0	0	0	0	-2.47	-2.48	0	0	0	0	0	0
6/4/2024 9:53	58401	MORO_T1	0	0	0	0	0	0	-2.48	-2.45	2	2	0	1200	1200	0
6/4/2024 9:54	59101	WALK_T2	0	0	0	0	0	0	4.81	4.6	0	0	0	0	0	0
6/4/2024 9:54	59102	WALK_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/4/2024 9:55	55405	SHER_T1	6	0	-6	0.12	0	-0.12	0.06	0.05	0	0	0	0	0	0
6/4/2024 9:55	59101	WALK_T2	0	0	0	0	0	0	4.81	4.6	0	1	1	0	600	600
6/4/2024 9:55	59102	WALK_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/4/2024 9:55	67605	WARW_T1	2	1	-1	0.3	0.6	0.3	-1.37	-1.29	0	0	0	0	0	0
6/4/2024 9:56	67502	WEWI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
6/4/2024 9:56	10801	CHHI_T1	3	5	2	0.93	0.92	-0.01	-2.92	-2.91	6	6	0	4200	4200	0
6/4/2024 9:56	67503	WEWI_T2	0	0	0	0	0	0	0.46	0.51	0	0	0	0	0	0
6/4/2024 9:56	67605	WARW_T1	2	1	-1	0.3	0.6	0.3	-1.37	-1.29	0	0	0	0	0	0
6/4/2024 9:58	59102	WALK_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/4/2024 9:58	59101	WALK_T2	0	0	0	0	0	0	4.81	4.6	0	1	1	0	600	600
6/4/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.46	0.51	0	0	0	0	0	0
6/4/2024 10:00	55105	WERT_T1	0	0	0	0	0	0	0.13	0.18	2	2	0	1800	1800	0
6/4/2024 10:00	12505	MITR_T2	0	0	0	0	0	0	7.76	9.18	0	0	0	0	0	0
6/4/2024 10:00	40505	CRES_T1	3	3	0	4.3	4.43	0.13	1.53	1.6	0	0	0	0	0	0
6/4/2024 10:00	12502	MITR_T2	1	1	0	7.3	7.4	0.1	0	0	0	0	0	0	0	0
6/4/2024 10:00	67502	WEWI_T2	0	2	2	0	0.4	0.4	-1.5	-1.44	2	2	0	1800	1800	0
6/4/2024 10:00	13503	MCMI_T2	0	1	1	0	0.8	0.8	0.01	0.05	0	0	0	0	0	0
6/4/2024 10:00	13501	MCMI_T1	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
6/4/2024 10:00	42102	FRAI_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/4/2024 10:00	55103	WERT_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/4/2024 10:00	13303	ORVI_T1	0	3	3	0	0.3	0.3	0.53	0.58	0	0	0	0	0	0
6/4/2024 10:04	67605	WARW_T1	1	1	0	0.6	0.6	0	-1.37	-1.29	0	0	0	0	0	0
6/4/2024 10:08	40303	TAMA_T3	0	0	0	0	0	0	1.88	1.83	0	0	0	0	0	0
6/4/2024 10:08	40302	TAMA_T3	0	7	7	0	0.24	0.24	0	0	0	0	0	0	0	0
6/4/2024 10:08	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 10:09	58001	WCAR_T1	3	3	0	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
6/4/2024 10:09	57103	SPHI_T2	0	0	0	0	0	0	0.05	0.08	2	2	0	1200	1200	0
6/4/2024 10:09	57106	SPHI_T2	3	3	0	0.7	0.93	0.23	0	0	0	0	0	0	0	0
6/4/2024 10:09	57101	SPHI_T2	6	6	0	0.62	0.77	0.15	0	0	0	0	0	0	0	0
6/4/2024 10:09	58003	WCAR_T1	1	1	0	1.3	1.1	-0.2	1.7	1.84	4	4	0	2400	2400	0
6/4/2024 10:09	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 10:09	57104	SPHI_T2	2	2	0	2.95	5.3	2.35	0	0	0	0	0	0	0	0
6/4/2024 10:10	20403	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/4/2024 10:10	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 10:10	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/4/2024 10:10	59101	WALK_T2	0	0	0	0	0	0	4.6	3.23	1	2	1	600	1200	600
6/4/2024 10:10	20401	ASHF_T2	1	2	1	0.7	0.6	-0.1	0.53	0.55	0	0	0	0	0	0
6/4/2024 10:10	43301	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/4/2024 10:10	40302	TAMA_T3	0	7	7	0	0.24	0.24	0.45	0.48	0	0	0	0	0	0
6/4/2024 10:11	10801	CHHI_T1	3	5	2	1.17	0.8	-0.37	-2.91	-2.85	6	6	0	4200	4200	0
6/4/2024 10:11	67502	WEWI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
6/4/2024 10:11	67605	WARW_T1	1	1	0	0.6	0.6	0	-1.29	-1.22	0	0	0	0	0	0
6/4/2024 10:11	20401	ASHF_T2	1	2	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
6/4/2024 10:11	20403	ASHF_T2	1	1	0	0.1	0.1	0	3.37	3.43	0	0	0	0	0	0
6/4/2024 10:11	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/4/2024 10:11	55405	SHER_T1	0	0	0	0	0	0	0.05	0.1	0	0	0	0	0	0
6/4/2024 10:11	43301	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/4/2024 10:11	43402	BENT_T1	5	1	-4	0.22	0.5	0.28	-1.19	-1.15	2	2	0	1800	1800	0
6/4/2024 10:11	67503	WEWI_T2	0	0	0	0	0	0	0.51	0.6	0	0	0	0	0	0
6/4/2024 10:11	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 10:11	59101	WALK_T2	0	0	0	0	0	0	4.6	3.23	1	2	1	600	1200	600
6/4/2024 10:12	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 10:12	67702	WERN_T2	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
6/4/2024 10:12	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 10:12	10805	CHHI_T2	3	6	3	3.5	3.5	0	-0.85	-0.8	2	2	0	1200	1200	0
6/4/2024 10:12	20403	ASHF_T2	1	1	0	0.1	0.1	0	3.37	3.43	0	0	0	0	0	0
6/4/2024 10:12	44301	BEAV_T2	0	1	1	0	0.1	0.1	1.67	1.39	4	4	0	3000	3000	0
6/4/2024 10:12	29402	BELT_T1	1	1	0	6.8	7.4	0.6	0	0	0	0	0	0	0	0
6/4/2024 10:12	29401	BELT_T1	1	27	26	0.1	0.2	0.1	0	0	2	2	0	1800	1800	0
6/4/2024 10:12	20401	ASHF_T2	1	2	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
6/4/2024 10:13	56803	BENV_T1	0	1	1	0	3.6	3.6	-0.03	-0.02	0	0	0	0	0	0
6/4/2024 10:13	45501	DERR_T2	1	2	1	0.6	0.8	0.2	4.18	4.28	8	8	0	7200	7200	0
6/4/2024 10:13	67503	WEWI_T2	0	0	0	0	0	0	0.51	0.6	0	0	0	0	0	0
6/4/2024 10:13	45502	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 10:13	44301	BEAV_T2	0	1	1	0	0.1	0.1	1.67	1.39	4	4	0	3000	3000	0
6/4/2024 10:13	16103	BING_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/4/2024 10:13	56801	BENV_T1	8	11	3	0.89	0.45	-0.44	0	0	0	0	0	0	0	0
6/4/2024 10:13	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 10:13	64904	MILL_T1	0	0	0	0	0	0	0.59	0.7	0	0	0	0	0	0
6/4/2024 10:13	16102	BING_T2	0	0	0	0	0	0	0.56	0.83	2	2	0	2400	2400	0
6/4/2024 10:13	43402	BENT_T1	5	1	-4	0.22	0.5	0.28	-1.19	-1.15	2	2	0	1800	1800	0
6/4/2024 10:13	67502	WEWI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
6/4/2024 10:13	10805	CHHI_T2	3	6	3	3.5	3.5	0	-1.7	-1.59	4	4	0	2400	2400	0
6/4/2024 10:13	43301	WATS_T2	0	0	0	0	0	0	0	0	8	8	0	7200	7200	0
6/4/2024 10:14	59101	WALK_T2	0	0	0	0	0	0	4.6	3.23	1	2	1	600	1200	600
6/4/2024 10:14	29402	BELT_T1	1	1	0	6.8	7.4	0.6	0	0	0	0	0	0	0	0
6/4/2024 10:14	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/4/2024 10:14	67605	WARW_T1	1	1	0	0.6	0.6	0	-1.29	-1.22	0	0	0	0	0	0
6/4/2024 10:14	10805	CHHI_T2	3	6	3	3.5	3.5	0	-0.85	-0.8	2	2	0	1200	1200	0
6/4/2024 10:14	26603	BROO_T1	0	0	0	0	0	0	0.31	0.36	0	0	0	0	0	0
6/4/2024 10:14	29401	BELT_T1	1	27	26	0.1	0.2	0.1	0	0	2	2	0	1800	1800	0
6/4/2024 10:15	64204	KINZ_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/4/2024 10:15	10801	CHHI_T1	5	6	1	0.58	0.85	0.27	-2.91	-2.85	6	6	0	4200	4200	0
6/4/2024 10:15	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 10:15	64203	KINZ_T1	1	1	0	0.2	0.6	0.4	0.74	0.38	6	6	0	4200	4200	0
6/4/2024 10:15	41801	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/4/2024 10:15	14205	EALL_T2	0	0	0	0	0	0	0.53	0.77	0	0	0	0	0	0
6/4/2024 10:16	29402	BELT_T1	1	1	0	7.3	7.4	0.1	0	0	0	0	0	0	0	0
6/4/2024 10:16	47001	HUGH_T2	0	1	1	0	0	0	-2	-1.99	0	0	0	0	0	0
6/4/2024 10:16	56803	BENV_T1	1	1	0	3.6	2	-1.6	0	0	0	0	0	0	0	0
6/4/2024 10:16	29401	BELT_T1	1	29	28	0.3	0.2	-0.1	0	0	2	2	0	1800	1800	0
6/4/2024 10:16	56801	BENV_T1	4	17	13	0.38	0.98	0.6	0.15	0.32	2	2	0	1200	1200	0
6/4/2024 10:16	26603	BROO_T1	0	0	0	0	0	0	0.31	0.36	0	0	0	0	0	0
6/4/2024 10:18	11507	FREE_T2	1	1	0	0.7	0.1	-0.6	2.73	1.65	0	0	0	0	0	0
6/4/2024 10:18	29401	BELT_T1	1	29	28	0.3	0.2	-0.1	0	0	6	6	0	5400	5400	0
6/4/2024 10:18	29402	BELT_T1	1	1	0	7.3	7.4	0.1	0	0	0	0	0	0	0	0
6/4/2024 10:20	41801	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/4/2024 10:21	64204	KINZ_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/4/2024 10:21	64203	KINZ_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/4/2024 10:21	41902	REED_T1	0	0	0	0	0	0	1.13	1.23	0	0	0	0	0	0
6/4/2024 10:21	64201	KINZ_T1	0	1	1	0	0	0	0.15	0.35	8	8	0	4200	4200	0
6/4/2024 10:22	66502	SMAN_T2	0	1	1	0	0.3	0.3	1.07	1.17	0	0	0	0	0	0
6/4/2024 10:22	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/4/2024 10:22	43105	SMIL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/4/2024 10:22	55002	NEWP_T1	6	7	1	0.77	0.7	-0.07	-0.48	-0.47	0	0	0	0	0	0
6/4/2024 10:22	43104	SMIL_T2	0	0	0	0	0	0	-1.2	-1.17	2	2	0	600	600	0
6/4/2024 10:22	43103	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/4/2024 10:22	66501	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/4/2024 10:22	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 10:23	67201	TEHI_T1	15	28	13	0.66	0.95	0.29	0	0	0	0	0	0	0	0
6/4/2024 10:23	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/4/2024 10:23	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 10:23	55002	NEWP_T1	6	7	1	0.77	0.7	-0.07	-0.24	-0.23	0	0	0	0	0	0
6/4/2024 10:23	43105	SMIL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/4/2024 10:23	43103	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/4/2024 10:23	43104	SMIL_T2	0	0	0	0	0	0	-3.5	-3.52	6	6	0	1800	1800	0
6/4/2024 10:23	41902	REED_T1	0	0	0	0	0	0	1.23	1.16	0	0	0	0	0	0
6/4/2024 10:23	67203	TEHI_T1	1	4	3	0.4	0.77	0.37	4.64	4.68	8	8	0	6000	6000	0
6/4/2024 10:24	66504	SMAN_T2	0	0	0	0	0	0	-1.54	-1.63	2	2	0	2400	2400	0
6/4/2024 10:24	55002	NEWP_T1	6	7	1	0.77	0.7	-0.07	-0.24	-0.23	0	0	0	0	0	0
6/4/2024 10:24	66503	SMAN_T2	0	0	0	0	0	0	1.84	1.71	0	0	0	0	0	0
6/4/2024 10:24	43201	MVIL_T2	0	1	1	0	0.3	0.3	-2.44	-2.42	0	0	0	0	0	0
6/4/2024 10:24	43103	SMIL_T2	0	1	1	0	0.2	0.2	-2.31	-2.23	0	0	0	0	0	0
6/4/2024 10:24	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 10:24	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/4/2024 10:24	66501	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/4/2024 10:24	66502	SMAN_T2	0	1	1	0	0.3	0.3	1.25	1.12	0	0	0	0	0	0
6/4/2024 10:24	43104	SMIL_T2	0	0	0	0	0	0	-2.33	-2.35	4	4	0	1200	1200	0
6/4/2024 10:24	43105	SMIL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/4/2024 10:25	43103	SMIL_T2	0	1	1	0	0.2	0.2	-3.47	-3.35	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/4/2024 10:25	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 10:25	43105	SMIL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/4/2024 10:26	43104	SMIL_T2	0	0	0	0	0	0	-1.17	-1.17	2	2	0	600	600	0
6/4/2024 10:26	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 10:26	66504	SMAN_T2	0	0	0	0	0	0	-3.08	-3.26	4	4	0	4800	4800	0
6/4/2024 10:26	43105	SMIL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/4/2024 10:26	66501	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/4/2024 10:26	66502	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/4/2024 10:26	15703	TANN_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
6/4/2024 10:26	15702	TANN_T2	0	0	0	0	0	0	-0.35	-0.2	0	0	0	0	0	0
6/4/2024 10:26	43103	SMIL_T2	0	1	1	0	0.2	0.2	-1.16	-1.12	0	0	0	0	0	0
6/4/2024 10:27	20401	ASHF_T2	2	4	2	0.6	0.65	0.05	0	0	0	0	0	0	0	0
6/4/2024 10:27	20403	ASHF_T2	0	1	1	0	0.1	0.1	3.43	3.54	0	0	0	0	0	0
6/4/2024 10:29	15702	TANN_T2	0	0	0	0	0	0	-0.35	-0.2	0	0	0	0	0	0
6/4/2024 10:29	45501	DERR_T2	1	3	2	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
6/4/2024 10:29	46206	DANV_T2	7	8	1	0.7	1.85	1.15	7.04	7.09	2	2	0	2400	2400	0
6/4/2024 10:29	45502	DERR_T2	0	2	2	0	0.3	0.3	0.81	0.63	0	1	1	0	300	300
6/4/2024 10:29	15703	TANN_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
6/4/2024 10:30	46206	DANV_T2	8	2	-6	0.66	1.85	1.19	7.04	7.09	2	2	0	2400	2400	0
6/4/2024 10:31	53501	EVIL_T2	2	3	1	0.5	0.57	0.07	-1.01	-0.81	8	8	0	4000	4000	0
6/4/2024 10:31	46206	DANV_T2	8	2	-6	0.66	1.85	1.19	7.04	7.09	2	2	0	2400	2400	0
6/4/2024 10:31	53502	EVIL_T2	1	3	2	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
6/4/2024 10:32	53501	EVIL_T2	2	3	1	0.5	0.57	0.07	-1.01	-0.81	8	8	0	4000	4000	0
6/4/2024 10:32	53502	EVIL_T2	1	3	2	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
6/4/2024 10:36	45602	WOOL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/4/2024 10:36	50502	MECH_T1	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
6/4/2024 10:36	50501	MECH_T1	4	4	0	0.85	0.58	-0.27	-0.18	-0.74	0	0	0	0	0	0
6/4/2024 10:36	45601	WOOL_T1	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
6/4/2024 10:36	50506	MECH_T1	1	1	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
6/4/2024 10:39	67203	TEHI_T1	4	3	-1	0.73	1.37	0.64	0	0	0	0	0	0	0	0
6/4/2024 10:39	67201	TEHI_T1	21	30	9	0.94	1.02	0.08	3.51	3.15	2	2	0	1200	1200	0
6/4/2024 10:39	56803	BENV_T1	1	1	0	3.9	2	-1.9	0	0	0	0	0	0	0	0
6/4/2024 10:39	59102	WALK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/4/2024 10:39	59101	WALK_T2	0	1	1	0	0.1	0.1	3.19	3.06	2	2	0	1200	1200	0
6/4/2024 10:39	13501	MCMI_T1	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
6/4/2024 10:39	56801	BENV_T1	11	17	6	0.45	0.98	0.53	-0.75	-0.8	2	2	0	1200	1200	0
6/4/2024 10:39	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 10:40	45902	AUBU_T1	0	0	0	0	0	0	-1.54	-1.65	4	4	0	2400	2400	0
6/4/2024 10:40	43301	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/4/2024 10:40	67502	WEWI_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/4/2024 10:40	67503	WEWI_T2	0	0	0	0	0	0	0.63	0.67	0	0	0	0	0	0
6/4/2024 10:40	56803	BENV_T1	1	1	0	3.9	2	-1.9	0	0	0	0	0	0	0	0
6/4/2024 10:40	56801	BENV_T1	11	17	6	0.45	0.98	0.53	-1.49	-1.61	4	4	0	2400	2400	0
6/4/2024 10:41	56803	BENV_T1	1	1	0	3.9	2	-1.9	0	0	0	0	0	0	0	0
6/4/2024 10:41	67503	WEWI_T2	0	0	0	0	0	0	0.63	0.67	0	0	0	0	0	0
6/4/2024 10:41	67502	WEWI_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/4/2024 10:41	56801	BENV_T1	11	17	6	0.45	0.98	0.53	-1.49	-1.61	4	4	0	2400	2400	0
6/4/2024 10:41	45901	AUBU_T1	0	0	0	0	0	0	4.13	4.31	0	0	0	0	0	0
6/4/2024 10:42	56801	BENV_T1	11	17	6	0.45	0.98	0.53	-5.97	-6.42	16	16	0	9600	9600	0
6/4/2024 10:42	56803	BENV_T1	1	1	0	3.9	2	-1.9	0	0	0	0	0	0	0	0
6/4/2024 10:43	56803	BENV_T1	1	1	0	3.9	2	-1.9	0	0	0	0	0	0	0	0
6/4/2024 10:43	56801	BENV_T1	11	17	6	0.45	0.98	0.53	-2.24	-2.41	6	6	0	3600	3600	0
6/4/2024 10:43	48302	ORWI_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
6/4/2024 10:44	63304	GREE_T1	0	0	0	0	0	0	-2.1	-2.2	0	0	0	0	0	0
6/4/2024 10:44	56803	BENV_T1	1	1	0	3.9	2	-1.9	0	0	0	0	0	0	0	0
6/4/2024 10:44	56801	BENV_T1	11	17	6	0.45	0.98	0.53	-2.24	-2.41	6	6	0	3600	3600	0
6/4/2024 10:45	63304	GREE_T1	0	0	0	0	0	0	-2.1	-2.2	0	0	0	0	0	0
6/4/2024 10:45	14203	EALL_T1	0	0	0	0	0	0	1.23	0.98	2	2	0	2400	2400	0
6/4/2024 10:50	42903	MIDD_T2	0	0	0	0	0	0	1.99	2.29	2	2	0	2400	2400	0
6/4/2024 10:51	54201	PENN_T1	3	8	5	1	0.64	-0.36	-0.97	-0.82	0	0	0	0	0	0
6/4/2024 10:51	54505	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/4/2024 10:51	54203	PENN_T1	5	18	13	0.1	0.31	0.21	0	0	0	0	0	0	0	0
6/4/2024 10:51	25502	MADI_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/4/2024 10:51	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/4/2024 10:51	54503	ENOL_T2	0	0	0	0	0	0	-2.68	-2.66	2	2	0	1200	1200	0
6/4/2024 10:51	25501	MADI_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/4/2024 10:51	25503	MADI_T1	113	104	-9	0.38	0.3	-0.08	-1.58	-1.55	0	0	0	0	0	0
6/4/2024 10:52	64101	REFR_T1	0	1	1	0	0	0	0.53	0.57	0	0	0	0	0	0
6/4/2024 10:53	64101	REFR_T1	0	1	1	0	0	0	1.08	1.23	0	0	0	0	0	0
6/4/2024 10:54	15703	TANN_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
6/4/2024 10:54	64101	REFR_T1	0	1	1	0	0	0	1.08	1.23	0	0	0	0	0	0
6/4/2024 10:54	48302	ORWI_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/4/2024 10:54	48303	ORWI_T2	0	0	0	0	0	0	0.77	0.97	0	0	0	0	0	0
6/4/2024 10:54	10102	ALLE_T2	1	1	0	7.5	7.6	0.1	0	0	0	0	0	0	0	0
6/4/2024 10:54	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.22	-0.21	0	0	0	0	0	0
6/4/2024 10:55	64101	REFR_T1	0	1	1	0	0	0	0.54	0.62	0	0	0	0	0	0
6/4/2024 10:55	67702	WERN_T2	0	0	0	0	0	0	0.29	0.37	0	0	0	0	0	0
6/4/2024 10:56	64101	REFR_T1	0	1	1	0	0	0	0.54	0.62	0	0	0	0	0	0
6/4/2024 10:56	15103	LIPHA_T2	0	0	0	0	0	0	-0.91	-0.87	0	0	0	0	0	0
6/4/2024 10:56	58001	WCAR_T1	0	3	3	0	0.43	0.43	2.29	2.32	0	0	0	0	0	0
6/4/2024 10:56	58003	WCAR_T1	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
6/4/2024 10:56	66703	STRA_T1	0	0	0	0	0	0	1.22	1.3	0	0	0	0	0	0
6/4/2024 10:57	64101	REFR_T1	0	1	1	0	0	0	1.08	1.23	0	0	0	0	0	0
6/4/2024 10:59	64101	REFR_T1	0	1	1	0	0	0	1.08	1.23	0	0	0	0	0	0
6/4/2024 10:59	18001	ZION_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
6/4/2024 10:59	43402	BENT_T1	8	3	-5	0.4	0.57	0.17	-1.01	-1.02	2	2	0	1800	1800	0
6/4/2024 10:59	60801	BUCK_T1	0	0	0	0	0	0	-0.31	-0.29	2	2	0	1200	1200	0
6/4/2024 11:00	43402	BENT_T1	3	5	2	0.57	0.54	-0.03	-1.01	-1.02	2	2	0	1800	1800	0
6/4/2024 11:00	60801	BUCK_T1	0	0	0	0	0	0	-0.31	-0.29	2	2	0	1200	1200	0
6/4/2024 11:01	21203	ECAR_T1	0	0	0	0	0	0	-0.12	-0.1	0	0	0	0	0	0
6/4/2024 11:02	64201	KINZ_T1	8	30	22	0.56	0.39	-0.17	0	0	0	0	0	0	0	0
6/4/2024 11:02	64203	KINZ_T1	1	2	1	0.7	0.6	-0.1	0.34	1.01	6	6	0	4200	4200	0
6/4/2024 11:02	64204	KINZ_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
6/4/2024 11:02	46506	LOHA_T1	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
6/4/2024 11:03	64203	KINZ_T1	1	2	1	0.7	0.6	-0.1	0.34	1.01	6	6	0	4200	4200	0
6/4/2024 11:03	45602	WOOL_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
6/4/2024 11:03	64204	KINZ_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
6/4/2024 11:03	64201	KINZ_T1	8	30	22	0.56	0.39	-0.17	0	0	0	0	0	0	0	0
6/4/2024 11:04	45801	HEGI_T1	0	0	0	0	0	0	0.65	0.64	2	2	0	1800	1800	0
6/4/2024 11:04	52403	GRPA_T2	3	3	0	0.47	0.4	-0.07	0.78	0.79	0	0	0	0	0	0
6/4/2024 11:04	45602	WOOL_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
6/4/2024 11:04	28805	LAKE_T1	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
6/4/2024 11:05	65001	NEFF_T2	0	0	0	0	0	0	1.11	1.13	2	2	0	2400	2400	0
6/4/2024 11:05	52403	GRPA_T2	3	3	0	0.47	0.4	-0.07	0.78	0.79	0	0	0	0	0	0
6/4/2024 11:05	45602	WOOL_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
6/4/2024 11:05	46506	LOHA_T1	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
6/4/2024 11:06	56801	BENV_T1	13	14	1	0.9	0.56	-0.34	-0.8	-0.38	2	2	0	1200	1200	0
6/4/2024 11:06	56803	BENV_T1	1	1	0	2.3	2.7	0.4	0	0	0	0	0	0	0	0
6/4/2024 11:06	46506	LOHA_T1	0	0	0	0	0	0	-1.06	-1	0	0	0	0	0	0
6/4/2024 11:07	56803	BENV_T1	1	1	0	2.3	2.7	0.4	0	0	0	0	0	0	0	0
6/4/2024 11:07	46506	LOHA_T1	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
6/4/2024 11:07	58402	MORO_T1	0	0	0	0	0	0	-1.46	-1.4	6	6	0	4800	4800	0
6/4/2024 11:07	56801	BENV_T1	13	14	1	0.9	0.56	-0.34	-0.61	-0.36	2	2	0	1200	1200	0
6/4/2024 11:08	56803	BENV_T1	1	1	0	2.3	2.7	0.4	0	0	0	0	0	0	0	0
6/4/2024 11:08	10103	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 11:08	10205	ALLE_T3	2	2	0	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/4/2024 11:08	56801	BENV_T1	13	14	1	0.9	0.56	-0.34	-1.14	-1.06	6	6	0	3600	3600	0
6/4/2024 11:08	10105	ALLE_T3	3	3	0	0.37	0	-0.37	0	0	0	0	0	0	0	0
6/4/2024 11:08	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 11:09	56803	BENV_T1	1	1	0	2.3	2.7	0.4	0	0	0	0	0	0	0	0
6/4/2024 11:09	56801	BENV_T1	13	14	1	0.9	0.56	-0.34	-0.76	-0.71	4	4	0	2400	2400	0
6/4/2024 11:10	56803	BENV_T1	1	1	0	2.3	2.7	0.4	0	0	0	0	0	0	0	0
6/4/2024 11:10	56801	BENV_T1	13	14	1	0.9	0.56	-0.34	-0.76	-0.71	4	4	0	2400	2400	0
6/4/2024 11:11	56803	BENV_T1	1	1	0	2.3	2.7	0.4	0	0	0	0	0	0	0	0
6/4/2024 11:11	56801	BENV_T1	13	14	1	0.9	0.56	-0.34	-0.38	-0.35	2	2	0	1200	1200	0
6/4/2024 11:11	51402	LYKE_T1	0	0	0	0	0	0	-4.7	-4.71	4	4	0	2400	2400	0
6/4/2024 11:12	10801	CHHI_T1	6	3	-3	0.7	0.63	-0.07	-2.54	-2.22	6	6	0	4200	4200	0
6/4/2024 11:12	45303	WBER_T2	0	0	0	0	0	0	-1.03	-0.95	0	0	0	0	0	0
6/4/2024 11:12	16301	ALPA_T1	0	2	2	0	0.4	0.4	0.99	1.01	0	0	0	0	0	0
6/4/2024 11:13	40201	BEGA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/4/2024 11:15	40201	BEGA_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
6/4/2024 11:16	24103	EHAZ_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
6/4/2024 11:16	24105	EHAZ_T1	4	4	0	6.03	5.9	-0.13	0	0	0	0	0	0	0	0
6/4/2024 11:16	24101	EHAZ_T1	22	36	14	0.46	0.86	0.4	0	0	0	0	0	0	0	0
6/4/2024 11:16	24104	EHAZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/4/2024 11:16	24102	EHAZ_T1	1	2	1	1.3	1.05	-0.25	0	0	0	0	0	0	0	0
6/4/2024 11:17	42102	FRAI_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/4/2024 11:17	24101	EHAZ_T1	22	36	14	0.46	0.86	0.4	0	0	0	0	0	0	0	0
6/4/2024 11:17	24102	EHAZ_T1	1	2	1	1.3	1.05	-0.25	0	0	0	0	0	0	0	0
6/4/2024 11:17	24104	EHAZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/4/2024 11:17	24103	EHAZ_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
6/4/2024 11:17	24105	EHAZ_T1	4	4	0	6.03	5.9	-0.13	0	0	0	0	0	0	0	0
6/4/2024 11:17	12701	MACU_T1	0	1	1	0	0	0	0.56	0.6	0	0	0	0	0	0
6/4/2024 11:17	67605	WARW_T1	1	1	0	0.7	0.4	-0.3	-1.25	-1.33	0	0	0	0	0	0
6/4/2024 11:17	45802	HEGI_T2	38	43	5	0.62	1.03	0.41	0.05	-0.17	4	4	0	2400	2400	0
6/4/2024 11:18	65501	MOJO_T1	0	0	0	0	0	0	-3.35	-3.67	4	4	0	3600	3600	0
6/4/2024 11:18	67605	WARW_T1	1	1	0	0.7	0.4	-0.3	-1.25	-1.33	0	0	0	0	0	0
6/4/2024 11:19	12701	MACU_T1	0	1	1	0	0	0	0.56	0.6	0	0	0	0	0	0
6/4/2024 11:19	53903	HALI_T2	5	6	1	0.6	0.65	0.05	-0.01	0.03	0	0	0	0	0	0
6/4/2024 11:19	53902	HALI_T2	2	3	1	2.4	2.33	-0.07	0	0	0	0	0	0	0	0
6/4/2024 11:20	43402	BENT_T1	1	5	4	0.1	0.56	0.46	-1.02	-1.05	2	2	0	1800	1800	0
6/4/2024 11:21	43402	BENT_T1	1	5	4	0.1	0.56	0.46	-1.03	-1.06	2	2	0	1800	1800	0
6/4/2024 11:21	47901	HRDG_T1	0	0	0	0	0	0	3.4	4.23	2	2	0	2400	2400	0
6/4/2024 11:21	46302	ROHR_T1	5	5	0	0.98	0.94	-0.04	0.45	0.48	0	0	0	0	0	0
6/4/2024 11:21	46301	ROHR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/4/2024 11:22	46301	ROHR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/4/2024 11:22	64101	REFR_T1	0	0	0	0	0	0	0.65	0.77	0	0	0	0	0	0
6/4/2024 11:22	48302	ORWI_T2	2	2	0	0.5	0.4	-0.1	-0.41	-0.32	0	0	0	0	0	0
6/4/2024 11:22	46302	ROHR_T1	5	5	0	0.98	0.94	-0.04	0.45	0.48	0	0	0	0	0	0
6/4/2024 11:23	64203	KINZ_T1	2	2	0	0.6	0.8	0.2	0.78	0.59	6	6	0	4200	4200	0
6/4/2024 11:23	13905	SEID_T1	0	0	0	0	0	0	-1	-0.98	2	2	0	2400	2400	0
6/4/2024 11:23	64201	KINZ_T1	20	28	8	0.47	0.29	-0.18	0	0	0	0	0	0	0	0
6/4/2024 11:23	13903	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/4/2024 11:23	64204	KINZ_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
6/4/2024 11:24	64203	KINZ_T1	2	2	0	0.6	0.8	0.2	0.78	0.59	6	6	0	4200	4200	0
6/4/2024 11:24	48302	ORWI_T2	2	2	0	0.5	0.4	-0.1	-0.33	-0.34	0	0	0	0	0	0
6/4/2024 11:24	46301	ROHR_T1	0	2	2	0	0.2	0.2	0.65	0.67	0	0	0	0	0	0
6/4/2024 11:24	67605	WARW_T1	1	1	0	0.7	0.4	-0.3	-1.33	-1.16	0	0	0	0	0	0
6/4/2024 11:24	64201	KINZ_T1	20	28	8	0.47	0.29	-0.18	0	0	0	0	0	0	0	0
6/4/2024 11:24	46302	ROHR_T1	5	5	0	0.98	0.94	-0.04	0	0	0	0	0	0	0	0
6/4/2024 11:24	64204	KINZ_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
6/4/2024 11:25	67605	WARW_T1	1	1	0	0.7	0.4	-0.3	-1.33	-1.16	0	0	0	0	0	0
6/4/2024 11:26	64101	REFR_T1	0	0	0	0	0	0	0.74	0.77	0	0	0	0	0	0
6/4/2024 11:27	67603	WARW_T1	0	0	0	0	0	0	0.65	0.74	0	0	0	0	0	0
6/4/2024 11:27	67605	WARW_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/4/2024 11:29	16103	BING_T2	1	1	0	0.2	0.3	0.1	-2.98	-2.94	4	4	0	3000	3000	0
6/4/2024 11:30	17805	GILB_T2	0	0	0	0	0	0	0.86	0.94	0	0	0	0	0	0
6/4/2024 11:30	44505	HAMI_T2	0	0	0	0	0	0	0.74	0.44	0	0	0	0	0	0
6/4/2024 11:30	26601	BROO_T1	0	0	0	0	0	0	-0.15	-0.13	2	2	0	1200	1200	0
6/4/2024 11:30	17804	GILB_T2	1	2	1	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
6/4/2024 11:30	44502	HAMI_T2	1	1	0	1	1.9	0.9	0	0	0	0	0	0	0	0
6/4/2024 11:31	63501	HEID_TBK1-2	0	0	0	0	0	0	1.3	1.44	2	2	0	1800	1800	0
6/4/2024 11:31	65205	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 11:32	52002	LING_T2	0	8	8	0	0	0	1.07	1.05	0	0	0	0	0	0
6/4/2024 11:32	52004	LING_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/4/2024 11:32	56801	BENV_T1	7	14	7	0.87	0.91	0.04	-0.71	-0.6	4	4	0	2400	2400	0
6/4/2024 11:32	56803	BENV_T1	1	0	-1	3.1	0	-3.1	0	0	0	0	0	0	0	0
6/4/2024 11:33	52004	LING_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/4/2024 11:33	17804	GILB_T2	1	2	1	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
6/4/2024 11:33	17805	GILB_T2	0	0	0	0	0	0	0.86	0.94	0	0	0	0	0	0
6/4/2024 11:33	47901	HRDG_T1	0	0	0	0	0	0	4.23	3.93	2	2	0	2400	2400	0
6/4/2024 11:33	56803	BENV_T1	1	0	-1	3.1	0	-3.1	0	0	0	0	0	0	0	0
6/4/2024 11:33	52002	LING_T2	0	8	8	0	0	0	2.13	2.1	0	0	0	0	0	0
6/4/2024 11:33	56801	BENV_T1	7	14	7	0.87	0.91	0.04	-0.35	-0.3	2	2	0	1200	1200	0
6/4/2024 11:34	56801	BENV_T1	7	14	7	0.87	0.91	0.04	-0.35	-0.3	2	2	0	1200	1200	0
6/4/2024 11:34	44703	MUNC_T2	0	0	0	0	0	0	2.54	2.5	0	0	0	0	0	0
6/4/2024 11:34	44505	HAMI_T2	0	0	0	0	0	0	0.74	0.44	0	0	0	0	0	0
6/4/2024 11:34	64203	KINZ_T1	2	2	0	0.8	1	0.2	0.78	0.59	6	6	0	4200	4200	0
6/4/2024 11:34	56803	BENV_T1	1	0	-1	3.1	0	-3.1	0	0	0	0	0	0	0	0
6/4/2024 11:34	44502	HAMI_T2	1	1	0	1	1.9	0.9	0	0	0	0	0	0	0	0
6/4/2024 11:34	64201	KINZ_T1	28	9	-19	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
6/4/2024 11:34	64204	KINZ_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
6/4/2024 11:35	52004	LING_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/4/2024 11:35	64204	KINZ_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
6/4/2024 11:35	56803	BENV_T1	1	0	-1	3.1	0	-3.1	0	0	0	0	0	0	0	0
6/4/2024 11:35	64201	KINZ_T1	28	9	-19	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
6/4/2024 11:35	52002	LING_T2	0	8	8	0	0	0	1.07	1.05	0	0	0	0	0	0
6/4/2024 11:35	64203	KINZ_T1	2	2	0	0.8	1	0.2	0.78	0.59	6	6	0	4200	4200	0
6/4/2024 11:35	56801	BENV_T1	7	14	7	0.87	0.91	0.04	-1.42	-1.21	8	8	0	4800	4800	0
6/4/2024 11:36	56801	BENV_T1	7	14	7	0.87	0.91	0.04	-0.71	-0.6	4	4	0	2400	2400	0
6/4/2024 11:36	52002	LING_T2	0	8	8	0	0	0	1.07	1.05	0	0	0	0	0	0
6/4/2024 11:36	52004	LING_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/4/2024 11:36	55003	NEWP_T2	1	9	8	0.2	0.61	0.41	-2.04	-2.04	2	2	0	1200	1200	0
6/4/2024 11:36	56803	BENV_T1	1	0	-1	3.1	0	-3.1	0	0	0	0	0	0	0	0
6/4/2024 11:39	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/4/2024 11:39	67702	WERN_T2	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
6/4/2024 11:39	59101	WALK_T2	0	1	1	0	0.4	0.4	7.31	7.29	4	4	0	2400	2400	0
6/4/2024 11:40	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/4/2024 11:40	67702	WERN_T2	0	0	0	0	0	0	0.89	0.95	0	0	0	0	0	0
6/4/2024 11:40	59101	WALK_T2	0	1	1	0	0.4	0.4	3.66	3.65	2	2	0	1200	1200	0
6/4/2024 11:40	46301	ROHR_T1	1	2	1	0.3	0.15	-0.15	0.67	0.65	0	0	0	0	0	0
6/4/2024 11:40	46302	ROHR_T1	5	4	-1	0.94	1.03	0.09	0	0	0	0	0	0	0	0
6/4/2024 11:42	60803	BUCK_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 11:42	60801	BUCK_T1	0	0	0	0	0	0	-0.17	-0.29	2	2	0	1200	1200	0
6/4/2024 11:42	67702	WERN_T2	0	0	0	0	0	0	0.89	0.95	0	0	0	0	0	0
6/4/2024 11:44	10801	CHHI_T1	3	4	1	0.63	0.27	-0.36	-2.36	-2.18	6	6	0	4200	4200	0
6/4/2024 11:44	46004	BERW_T2	0	0	0	0	0	0	1.75	1.95	0	0	0	0	0	0
6/4/2024 11:45	53601	DALM_T2	1	1	0	0.6	1.1	0.5	-0.85	-0.82	2	2	0	1800	1800	0
6/4/2024 11:45	53902	HALI_T2	3	3	0	2.33	2.13	-0.2	0	0	0	0	0	0	0	0
6/4/2024 11:45	53903	HALI_T2	6	5	-1	0.65	0.84	0.19	0.02	0.15	0	0	0	0	0	0
6/4/2024 11:49	25402	LAHA_T2	3	3	0	0.53	0.83	0.3	-0.83	-0.71	0	0	0	0	0	0
6/4/2024 11:51	25402	LAHA_T2	3	3	0	0.53	0.83	0.3	-0.83	-0.71	0	0	0	0	0	0
6/4/2024 11:51	64802	MONE_T2	0	1	1	0	0.1	0.1	0.54	0.52	0	0	0	0	0	0
6/4/2024 11:52	64902	MILL_T2	0	0	0	0	0	0	-1.29	-1.27	2	2	0	1800	1800	0
6/4/2024 11:56	61102	BERK_T5	0	0	0	0	0	0	0.5	0.59	4	4	0	2400	2400	0
6/4/2024 11:56	60803	BUCK_T1	0	10	10	0	0.35	0.35	-3.79	-3.83	4	4	0	2400	2400	0
6/4/2024 11:56	67503	WEMI_T2	0	0	0	0	0	0	0.78	0.79	0	0	0	0	0	0
6/4/2024 11:57	61102	BERK_T5	0	0	0	0	0	0	0.5	0.59	4	4	0	2400	2400	0
6/4/2024 11:58	61703	ELIZ_T1	0	0	0	0	0	0	-4.37	-4.32	4	4	0	4200	4200	0
6/4/2024 11:58	61701	ELIZ_T1	2	2	0	1.75	1.75	0	0	0	0	0	0	0	0	0
6/4/2024 11:58	61102	BERK_T5	0	0	0	0	0	0	1	1.18	8	8	0	4800	4800	0
6/4/2024 11:59	60803	BUCK_T1	0	10	10	0	0.35	0.35	-3.79	-3.83	4	4	0	2400	2400	0
6/4/2024 11:59	61701	ELIZ_T1	2	2	0	1.75	1.75	0	2.19	2.37	0	0	0	0	0	0
6/4/2024 11:59	61703	ELIZ_T1	0	0	0	0	0	0	-4.37	-4.32	4	4	0	4200	4200	0
6/4/2024 11:59	61102	BERK_T5	0	0	0	0	0	0	2	2.36	16	16	0	9600	9600	0
6/4/2024 12:00	10801	CHHI_T1	0	5	5	0	0.72	0.72	-2.18	-2.29	6	6	0	4200	4200	0
6/4/2024 12:00	61102	BERK_T5	0	0	0	0	0	0	0.5	0.59	4	4	0	2400	2400	0
6/4/2024 12:00	41801	GOCI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/4/2024 12:01	10805	CHHI_T2	13	10	-3	0.57	0.7	0.13	-0.73	-0.3	2	2	0	1200	1200	0
6/4/2024 12:01	61701	ELIZ_T1	2	2	0	1.45	1.95	0.5	2.19	2.37	0	0	0	0	0	0
6/4/2024 12:01	61703	ELIZ_T1	0	0	0	0	0	0	-4.37	-4.32	4	4	0	4200	4200	0
6/4/2024 12:02	42102	FRAI_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/4/2024 12:02	61701	ELIZ_T1	2	2	0	1.45	1.95	0.5	2.19	2.37	0	0	0	0	0	0
6/4/2024 12:03	61702	ELIZ_T2	0	2	2	0	0.4	0.4	4.05	4.06	4	4	0	3000	3000	0
6/4/2024 12:03	61701	ELIZ_T1	2	2	0	1.45	1.95	0.5	0	0	0	0	0	0	0	0
6/4/2024 12:03	64403	LAND_T1	0	0	0	0	0	0	-2.1	-2.17	2	2	0	1800	1800	0
6/4/2024 12:03	61703	ELIZ_T1	0	0	0	0	0	0	-4.37	-4.32	4	4	0	4200	4200	0
6/4/2024 12:03	24702	FLND_T2	2	3	1	0.8	0.73	-0.07	1.48	1.87	2	2	0	2400	2400	0
6/4/2024 12:04	53502	EVIL_T2	0	0	0	0	0	0	0.83	0.29	4	4	0	2400	2400	0
6/4/2024 12:04	42102	FRAI_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
6/4/2024 12:04	61703	ELIZ_T1	0	0	0	0	0	0	-4.37	-4.32	4	4	0	4200	4200	0
6/4/2024 12:04	61701	ELIZ_T1	2	2	0	1.45	1.95	0.5	0	0	0	0	0	0	0	0
6/4/2024 12:04	53501	EVIL_T2	1	2	1	1.4	0.95	-0.45	0	0	0	0	0	0	0	0
6/4/2024 12:04	41801	GOCI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/4/2024 12:05	45802	HEGI_T2	7	41	34	0.41	0.58	0.17	-0.29	-0.36	4	4	0	2400	2400	0
6/4/2024 12:06	45701	LIND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 12:06	45702	LIND_T2	1	1	0	0.7	0.8	0.1	-0.47	-0.48	0	0	0	0	0	0
6/4/2024 12:08	67401	WAKE_T2	0	0	0	0	0	0	-1.26	-1.25	0	0	0	0	0	0
6/4/2024 12:08	59202	THOM_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 12:11	59202	THOM_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 12:12	59202	THOM_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 12:13	61102	BERK_T5	0	0	0	0	0	0	0.59	0.65	4	4	0	2400	2400	0
6/4/2024 12:14	46204	DANV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/4/2024 12:14	46206	DANV_T2	8	5	-3	0.84	1.18	0.34	14.17	14.06	4	4	0	4800	4800	0
6/4/2024 12:14	46203	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 12:15	11104	EGYP_T1	5	0	0	1.52	1.28	-0.24	0	0	0	0	0	0	0	0
6/4/2024 12:15	61102	BERK_T5	0	0	0	0	0	0	1.18	1.3	8	8	0	4800	4800	0
6/4/2024 12:15	61505	EPET_T1	0	0	0	0	0	0	2.04	2.12	0	0	0	0	0	0
6/4/2024 12:15	11102	EGYP_T1	1	2	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/4/2024 12:15	11101	EGYP_T1	0	0	0	0	0	0	0.57	0.19	2	2	0	2400	2400	0
6/4/2024 12:16	46203	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 12:16	46206	DANV_T2	4	11	7	1.23	1.2	-0.03	7.08	7.03	2	2	0	2400	2400	0
6/4/2024 12:16	46204	DANV_T2	1	4	3	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/4/2024 12:17	56801	BENV_T1	9	7	-2	0.5	0.81	0.31	-4.2	-3.73	16	16	0	9600	9600	0
6/4/2024 12:17	56803	BENV_T1	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 12:17	41502	FAIR_T2	0	0	0	0	0	0	-2.95	-2.95	2	2	0	1800	1800	0
6/4/2024 12:18	56803	BENV_T1	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 12:18	56801	BENV_T1	9	7	-2	0.5	0.81	0.31	-1.05	-0.93	4	4	0	2400	2400	0
6/4/2024 12:20	56801	BENV_T1	9	7	-2	0.5	0.81	0.31	-2.1	-1.86	8	8	0	4800	4800	0
6/4/2024 12:20	40902	JESH_T1	0	0	0	0	0	0	-0.42	-0.33	4	4	0	2400	2400	0
6/4/2024 12:20	47802	MOCA_T2	1	1	0	0.8	0.6	-0.2	-1.32	-1.25	0	0	0	0	0	0
6/4/2024 12:20	56803	BENV_T1	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 12:20	40901	JESH_T1	1	1	0	1.4	0.9	-0.5	0	0	0	0	0	0	0	0
6/4/2024 12:20	54504	ENOL_T2	0	0	0	0	0	0	-1.42	-1.38	2	2	0	1200	1200	0
6/4/2024 12:21	56803	BENV_T1	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 12:21	24201	PROV_T3	1	1	0	7.7	7.9	0.2	-1.78	-1.74	2	2	0	2400	2400	0
6/4/2024 12:21	56801	BENV_T1	9	7	-2	0.5	0.81	0.31	-1.05	-0.93	4	4	0	2400	2400	0
6/4/2024 12:21	24204	PROV_T3	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
6/4/2024 12:22	65901	SAKR_T2	1	1	0	6.1	6	-0.1	-0.55	-0.56	4	4	0	3000	3000	0
6/4/2024 12:24	55103	WERT_T1	1	1	0	6.6	6	-0.6	0	0	0	0	0	0	0	0
6/4/2024 12:24	55101	WERT_T1	0	0	0	0	0	0	-7.66	-7.17	16	16	0	13200	13200	0
6/4/2024 12:25	67605	WARW_T1	1	1	0	1.3	1.1	-0.2	-1.39	-1.55	0	0	0	0	0	0
6/4/2024 12:25	67603	WARW_T1	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
6/4/2024 12:26	67605	WARW_T1	1	1	0	1.3	1.1	-0.2	-1.39	-1.55	0	0	0	0	0	0
6/4/2024 12:26	43108	SMIL_T2	0	0	0	0	0	0	-1.6	-1.67	2	2	0	2400	2400	0
6/4/2024 12:29	60803	BUCK_T1	10	12	2	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
6/4/2024 12:29	60801	BUCK_T1	0	1	1	0	0.2	0.2	-0.96	0.35	2	0	-2	1200	0	-1200
6/4/2024 12:30	63804	HEMP_T1	1	1	0	6.6	6.7	0.1	-1.89	-1.82	0	0	0	0	0	0
6/4/2024 12:31	40901	JESH_T1	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
6/4/2024 12:31	41801	GOCI_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/4/2024 12:31	40902	JESH_T1	0	0	0	0	0	0	-0.33	-0.28	4	4	0	2400	2400	0
6/4/2024 12:32	45702	LIND_T2	1	1	0	0.8	0.5	-0.3	-0.44	-0.45	0	0	0	0	0	0
6/4/2024 12:33	52404	GRPA_T2	1	1	0	0.3	0	-0.3	4.27	4.2	0	0	0	0	0	0
6/4/2024 12:33	52403	GRPA_T2	11	4	-7	1.03	0.3	-0.73	0	0	0	0	0	0	0	0
6/4/2024 12:33	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 12:34	52404	GRPA_T2	1	1	0	0.3	0	-0.3	2.13	2.1	0	0	0	0	0	0
6/4/2024 12:34	52403	GRPA_T2	11	4	-7	1.03	0.3	-0.73	0	0	0	0	0	0	0	0
6/4/2024 12:34	64204	KINZ_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/4/2024 12:34	64203	KINZ_T1	2	2	0	0.75	1.65	0.9	0	0	0	0	0	0	0	0
6/4/2024 12:34	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 12:34	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 12:34	64201	KINZ_T1	4	72	68	0.33	0.33	0	0.72	0.86	8	8	0	4200	4200	0
6/4/2024 12:35	63305	GREE_T1	0	0	0	0	0	0	-3.1	-3.24	2	2	0	1800	1800	0
6/4/2024 12:36	13503	MCMI_T2	4	4	0	0.43	0.48	0.05	0.27	0.27	0	0	0	0	0	0
6/4/2024 12:36	44601	SALE_T2	0	0	0	0	0	0	1.02	1.65	2	2	0	1200	1200	0
6/4/2024 12:37	44601	SALE_T2	0	0	0	0	0	0	1.02	1.65	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/4/2024 12:38	17002	RIRO_T2	2	3	1	1.05	0.87	-0.18	1.84	1.88	0	0	0	0	0	0
6/4/2024 12:38	17001	RIRO_T1	0	0	0	0	0	0	0.45	0.49	0	0	0	0	0	0
6/4/2024 12:39	44601	SALE_T2	0	0	0	0	0	0	0.91	1.59	2	2	0	1200	1200	0
6/4/2024 12:40	67601	WARW_T2	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
6/4/2024 12:41	13606	RICH_T2	1	1	0	7.9	8	0.1	2.97	3.15	0	0	0	0	0	0
6/4/2024 12:42	67602	WARW_T2	0	0	0	0	0	0	1.39	2.04	12	12	0	9000	9000	0
6/4/2024 12:43	45501	DERR_T2	2	6	4	0.85	0.63	-0.22	2.48	2.68	4	4	0	3600	3600	0
6/4/2024 12:43	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 12:43	64902	MILL_T2	0	0	0	0	0	0	-1.23	-1.14	2	2	0	1800	1800	0
6/4/2024 12:44	67602	WARW_T2	0	0	0	0	0	0	0.46	0.68	4	4	0	3000	3000	0
6/4/2024 12:44	44801	EDAN_T2	1	1	0	2.1	2.3	0.2	1.67	1.66	0	0	0	0	0	0
6/4/2024 12:45	67602	WARW_T2	0	0	0	0	0	0	0.46	0.68	4	4	0	3000	3000	0
6/4/2024 12:45	67605	WARW_T1	1	1	0	0.6	0.6	0	-1.55	-1.57	0	0	0	0	0	0
6/4/2024 12:46	45501	DERR_T2	2	6	4	0.9	0.5	-0.4	4.97	5.36	8	8	0	7200	7200	0
6/4/2024 12:46	44801	EDAN_T2	1	1	0	2.3	1.7	-0.6	1.67	1.66	0	0	0	0	0	0
6/4/2024 12:46	16302	ALPA_T2	0	2	2	0	0.35	0.35	5.7	0.81	0	0	0	0	0	0
6/4/2024 12:46	61102	BERK_T5	0	0	0	0	0	0	0.7	0.91	4	4	0	2400	2400	0
6/4/2024 12:47	64302	LINC_T2	2	3	1	0.55	0.75	0.2	3.77	4.06	0	0	0	0	0	0
6/4/2024 12:47	53501	EVIL_T2	0	1	1	0	0.2	0.2	-1.43	-1.71	10	10	0	5800	5800	0
6/4/2024 12:47	53502	EVIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/4/2024 12:48	53501	EVIL_T2	0	1	1	0	0.2	0.2	-5.72	-6.83	40	40	0	23200	23200	0
6/4/2024 12:48	64902	MILL_T2	0	0	0	0	0	0	-1.23	-1.14	2	2	0	1800	1800	0
6/4/2024 12:48	64202	KINZ_T1	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/4/2024 12:48	64203	KINZ_T1	2	2	0	1.8	1.15	-0.65	0.58	1.25	6	6	0	4200	4200	0
6/4/2024 12:48	64204	KINZ_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
6/4/2024 12:48	53502	EVIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/4/2024 12:48	52004	LING_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/4/2024 12:48	16302	ALPA_T2	0	2	2	0	0.35	0.35	2.85	0.41	0	0	0	0	0	0
6/4/2024 12:48	64201	KINZ_T1	68	63	-5	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
6/4/2024 12:48	64305	LINC_T1	0	0	0	0	0	0	1.38	-0.17	0	0	0	0	0	0
6/4/2024 12:48	52002	LING_T2	1	8	7	0	0	0	1.33	1.39	0	0	0	0	0	0
6/4/2024 12:49	63802	HEMP_T1	0	0	0	0	0	0	1.22	1.2	0	0	0	0	0	0
6/4/2024 12:49	44801	EDAN_T2	1	1	0	2.3	1.7	-0.6	1.67	1.66	0	0	0	0	0	0
6/4/2024 12:49	63804	HEMP_T1	1	1	0	6.7	6.9	0.2	0	0	0	0	0	0	0	0
6/4/2024 12:50	58401	MORO_T1	0	0	0	0	0	0	-1.96	-3.09	2	4	2	1200	2400	1200
6/4/2024 12:51	57303	MOAL_T2	1	1	0	7.2	7.3	0.1	0	0	0	0	0	0	0	0
6/4/2024 12:51	54505	ENOL_T2	0	0	0	0	0	0	-1.68	-1.62	2	2	0	1200	1200	0
6/4/2024 12:51	58401	MORO_T1	0	0	0	0	0	0	-3.93	-6.17	4	8	4	2400	4800	2400
6/4/2024 12:51	48302	ORWI_T2	1	1	0	0.2	0.1	-0.1	-0.32	-0.26	0	0	0	0	0	0
6/4/2024 12:51	57302	MOAL_T2	0	0	0	0	0	0	-1.85	-1.78	2	2	0	2400	2400	0
6/4/2024 12:53	15603	NSTR_T2	0	1	1	0	0.3	0.3	-0.88	-0.87	0	0	0	0	0	0
6/4/2024 12:53	15601	NSTR_T2	4	4	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/4/2024 12:53	65501	MOJO_T1	0	0	0	0	0	0	-2.98	-3.1	4	4	0	3600	3600	0
6/4/2024 12:54	66703	STRA_T1	2	0	-2	0.45	0	-0.45	-0.46	-0.71	0	0	0	0	0	0
6/4/2024 12:54	55103	WERT_T1	1	1	0	6	4.7	-1.3	0	0	0	0	0	0	0	0
6/4/2024 12:54	66702	STRA_T1	0	0	0	0	0	0	-2.06	-1.72	6	6	0	5400	5400	0
6/4/2024 12:54	66701	STRA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 12:54	55105	WERT_T1	0	0	0	0	0	0	0.94	1.02	2	2	0	1800	1800	0
6/4/2024 12:54	58402	MORO_T1	0	0	0	0	0	0	-1.18	-1.11	6	6	0	4800	4800	0
6/4/2024 12:55	45902	AUBU_T1	0	1	1	0	0.5	0.5	-0.58	-0.6	2	2	0	1200	1200	0
6/4/2024 12:55	66701	STRA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 12:55	66703	STRA_T1	2	0	-2	0.45	0	-0.45	-0.92	-1.42	0	0	0	0	0	0
6/4/2024 12:56	67602	WARW_T2	0	0	0	0	0	0	0.68	0.6	4	4	0	3000	3000	0
6/4/2024 12:56	16103	BING_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
6/4/2024 12:56	45902	AUBU_T1	0	1	1	0	0.5	0.5	-0.58	-0.6	2	2	0	1200	1200	0
6/4/2024 12:56	16101	BING_T2	0	0	0	0	0	0	1.95	1.98	0	0	0	0	0	0
6/4/2024 12:56	55103	WERT_T1	1	1	0	6	4.7	-1.3	0	0	0	0	0	0	0	0
6/4/2024 12:56	16102	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 12:56	55101	WERT_T1	0	0	0	0	0	0	-3.89	-3.67	8	8	0	6600	6600	0
6/4/2024 12:58	45902	AUBU_T1	0	1	1	0	0.5	0.5	-1.16	-1.2	4	4	0	2400	2400	0
6/4/2024 12:58	67602	WARW_T2	0	0	0	0	0	0	0.68	0.6	4	4	0	3000	3000	0
6/4/2024 12:59	61701	ELIZ_T1	1	1	0	2.1	2	-0.1	2.12	2.2	0	0	0	0	0	0
6/4/2024 12:59	45902	AUBU_T1	0	1	1	0	0.5	0.5	-0.58	-0.6	2	2	0	1200	1200	0
6/4/2024 12:59	61102	BERK_T5	0	0	0	0	0	0	0.91	-1.53	4	6	2	2400	4800	2400
6/4/2024 13:00	24102	EHAZ_T1	1	2	1	1.8	1.1	-0.7	0.51	0.48	0	0	0	0	0	0
6/4/2024 13:00	24105	EHAZ_T1	4	4	0	6.15	5.98	-0.17	0	0	0	0	0	0	0	0
6/4/2024 13:00	24104	EHAZ_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/4/2024 13:00	24101	EHAZ_T1	29	31	2	2.01	1.85	-0.16	0	0	0	0	0	0	0	0
6/4/2024 13:01	61701	ELIZ_T1	1	2	1	2	0.9	-1.1	2.12	2.2	0	0	0	0	0	0
6/4/2024 13:01	16302	ALPA_T2	1	2	1	0.5	0.25	-0.25	0.41	0.22	0	0	0	0	0	0
6/4/2024 13:01	24701	FLND_T2	0	0	0	0	0	0	1.03	0.99	0	0	0	0	0	0
6/4/2024 13:01	61703	ELIZ_T1	0	0	0	0	0	0	-4.23	-4.17	4	4	0	4200	4200	0
6/4/2024 13:01	24702	FLND_T2	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
6/4/2024 13:01	48901	FOSP_T2	0	0	0	0	0	0	-0.01	0	2	2	0	1200	1200	0
6/4/2024 13:02	61703	ELIZ_T1	0	0	0	0	0	0	-8.46	-8.34	8	8	0	8400	8400	0
6/4/2024 13:02	41801	GOCI_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/4/2024 13:02	16302	ALPA_T2	1	2	1	0.5	0.25	-0.25	0.41	0.22	0	0	0	0	0	0
6/4/2024 13:02	61701	ELIZ_T1	1	2	1	2	0.9	-1.1	0	0	0	0	0	0	0	0
6/4/2024 13:06	60502	NMAN_T2	0	0	0	0	0	0	1.39	1.46	0	0	0	0	0	0
6/4/2024 13:06	48302	ORWI_T2	0	1	1	0	0.1	0.1	-0.26	-0.24	0	0	0	0	0	0
6/4/2024 13:06	60501	NMAN_T2	3	3	0	2.67	4	1.33	0	0	0	0	0	0	0	0
6/4/2024 13:06	51004	NHAR_T1	1	2	1	7	7.1	0.1	-2.21	-2.25	0	0	0	0	0	0
6/4/2024 13:07	60502	NMAN_T2	0	0	0	0	0	0	1.39	1.46	0	0	0	0	0	0
6/4/2024 13:07	49803	UNIV_T1	0	1	1	0	0.7	0.7	-3.57	-3.44	0	0	0	0	0	0
6/4/2024 13:07	60501	NMAN_T2	3	3	0	2.67	4	1.33	0	0	0	0	0	0	0	0
6/4/2024 13:08	64201	KINZ_T1	63	5	-58	0.39	0.2	-0.19	0	0	0	0	0	0	0	0
6/4/2024 13:08	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 13:08	64203	KINZ_T1	2	2	0	1.65	1.15	-0.5	0.84	1.04	6	6	0	4200	4200	0
6/4/2024 13:08	64204	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/4/2024 13:09	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 13:09	58102	NEKI_T1	1	1	0	1.2	1.1	-0.1	-1.83	-1.85	2	2	0	2400	2400	0
6/4/2024 13:09	64201	KINZ_T1	63	5	-58	0.39	0.2	-0.19	0	0	0	0	0	0	0	0
6/4/2024 13:09	64203	KINZ_T1	2	2	0	1.65	1.15	-0.5	0.84	1.04	6	6	0	4200	4200	0
6/4/2024 13:09	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 13:09	64204	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/4/2024 13:09	58101	NEKI_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/4/2024 13:09	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 13:10	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 13:10	67204	TEHI_T2	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
6/4/2024 13:10	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 13:11	42802	SELI_T1	0	0	0	0	0	0	-2.48	-2.54	2	2	0	1800	1800	0
6/4/2024 13:12	43101	SMIL_T2	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
6/4/2024 13:12	43103	SMIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/4/2024 13:12	67204	TEHI_T2	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
6/4/2024 13:12	42802	SELI_T1	0	0	0	0	0	0	-2.48	-2.54	2	2	0	1800	1800	0
6/4/2024 13:12	43301	WATS_T2	0	1	1	0	0	0	0	0	2	2	0	1800	1800	0
6/4/2024 13:12	43108	SMIL_T2	2	2	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
6/4/2024 13:12	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 13:14	61701	ELIZ_T1	1	2	1	2	0.9	-1.1	2.2	2.43	0	0	0	0	0	0
6/4/2024 13:15	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 13:15	45902	AUBU_T1	0	0	-1	0.5	0	-0.5	-0.6	-0.72	2	2	0	1200	1200	0
6/4/2024 13:16	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 13:17	56803	BENV_T1	4	5	1	1.28	0.68	-0.6	0	0	0	0	0	0	0	0
6/4/2024 13:17	61701	ELIZ_T1	1	2	1	1.6	0.85	-0.75	2.2	2.43	0	0	0	0	0	0
6/4/2024 13:17	56801	BENV_T1	9	11	2	0.66	0.44	-0.22	-1.34	-3.69	8	8	0	4800	4800	0
6/4/2024 13:18	56803	BENV_T1	4	5	1	1.28	0.68	-0.6	0	0	0	0	0	0	0	0
6/4/2024 13:18	17802	GILB_T1	2	2	0	0.55	0.45	-0.1	0.91	0.98	0	0	0	0	0	0
6/4/2024 13:18	56801	BENV_T1	9	11	2	0.66	0.44	-0.22	-1.34	-3.69	8	8	0	4800	4800	0
6/4/2024 13:18	46506	LONA_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
6/4/2024 13:19	46801	HEPB_T2	2	2	0	0.9	1.35	0.45	0.43	0.46	0	0	0	0	0	0
6/4/2024 13:19	56801	BENV_T1	9	11	2	0.66	0.44	-0.22	-1.34	-3.69	8	8	0	4800	4800	0
6/4/2024 13:19	45801	HEGI_T1	1	0	-1	0.1	0	-0.1	0.96	1.05	2	2	0	1800	1800	0
6/4/2024 13:19	56803	BENV_T1	4	5	1	1.28	0.68	-0.6	0	0	0	0	0	0	0	0
6/4/2024 13:19	46802	HEPB_T1	0	1	1	0	0.2	0.2	0.34	0.4	0	0	0	0	0	0
6/4/2024 13:20	52004	LING_T2	1	1	0	0.2	0.2	0	1.36	1.38	0	0	0	0	0	0
6/4/2024 13:20	56801	BENV_T1	9	11	2	0.66	0.44	-0.22	-2.68	-7.38	16	16	0	9600	9600	0
6/4/2024 13:20	56803	BENV_T1	4	5	1	1.28	0.68	-0.6	0	0	0	0	0	0	0	0
6/4/2024 13:20	52002	LING_T2	8	8	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 13:21	56803	BENV_T1	4	5	1	1.28	0.68	-0.6	0	0	0	0	0	0	0	0
6/4/2024 13:21	56801	BENV_T1	9	11	2	0.66	0.44	-0.22	-0.67	-1.84	4	4	0	2400	2400	0
6/4/2024 13:24	42202	SHEN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 13:24	59202	THOM_T1	2	2	0	1.45	1.1	-0.35	0	0	0	0	0	0	0	0
6/4/2024 13:24	42201	SHEN_T2	1	1	0	0.5	1.2	0.7	-0.49	-0.48	2	2	0	1200	1200	0
6/4/2024 13:25	67602	WARW_T2	0	0	0	0	0	0	1.27	1.39	8	8	0	6000	6000	0
6/4/2024 13:26	42202	SHEN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 13:26	42201	SHEN_T2	1	1	0	0.5	1.2	0.7	-0.49	-0.48	2	2	0	1200	1200	0
6/4/2024 13:26	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 13:27	42701	AUGU_T1	62	67	5	0.67	0.8	0.13	0	0	0	0	0	0	0	0
6/4/2024 13:28	67602	WARW_T2	0	0	0	0	0	0	0.63	0.7	4	4	0	3000	3000	0
6/4/2024 13:28	42701	AUGU_T1	62	67	5	0.67	0.8	0.13	0	0	0	0	0	0	0	0
6/4/2024 13:29	64202	KINZ_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 13:29	67602	WARW_T2	0	0	0	0	0	0	0.63	0.7	4	4	0	3000	3000	0
6/4/2024 13:29	64201	KINZ_T1	5	2	-3	0.32	0.2	-0.12	0	0	0	0	0	0	0	0
6/4/2024 13:29	64203	KINZ_T1	2	2	0	1.15	1.55	0.4	1.04	0.95	6	6	0	4200	4200	0
6/4/2024 13:29	64204	KINZ_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/4/2024 13:30	45402	WBLO_T2	0	2	2	0	0.5	0.5	-0.21	-0.19	0	0	0	0	0	0
6/4/2024 13:30	64201	KINZ_T1	2	9	7	0.2	0.25	0.05	0	0	0	0	0	0	0	0
6/4/2024 13:30	64203	KINZ_T1	2	2	0	1.8	1.55	-0.25	1.04	0.95	6	6	0	4200	4200	0
6/4/2024 13:30	64204	KINZ_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
6/4/2024 13:30	42701	AUGU_T1	62	66	4	0.8	0.92	0.12	0	0	0	0	0	0	0	0
6/4/2024 13:31	64201	KINZ_T1	2	9	7	0.2	0.25	0.05	0.41	0.66	8	8	0	4200	4200	0
6/4/2024 13:31	44801	EDAN_T2	1	2	1	1.8	1.6	-0.2	1.74	1.75	0	0	0	0	0	0
6/4/2024 13:31	64203	KINZ_T1	2	2	0	1.8	1.55	-0.25	0	0	0	0	0	0	0	0
6/4/2024 13:31	64204	KINZ_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
6/4/2024 13:32	56803	BENV_T1	4	4	0	1.88	0.8	-1.08	0	0	0	0	0	0	0	0
6/4/2024 13:32	56801	BENV_T1	11	5	-6	0.43	0.64	0.21	-1.84	-1.62	4	4	0	2400	2400	0
6/4/2024 13:32	44801	EDAN_T2	1	2	1	1.8	1.6	-0.2	1.74	1.75	0	0	0	0	0	0
6/4/2024 13:33	56801	BENV_T1	11	5	-6	0.43	0.64	0.21	-3.69	-3.25	8	8	0	4800	4800	0
6/4/2024 13:33	56803	BENV_T1	4	4	0	1.88	0.8	-1.08	0	0	0	0	0	0	0	0
6/4/2024 13:34	56801	BENV_T1	11	5	-6	0.43	0.64	0.21	-1.84	-1.62	4	4	0	2400	2400	0
6/4/2024 13:34	56803	BENV_T1	4	4	0	1.88	0.8	-1.08	0	0	0	0	0	0	0	0
6/4/2024 13:34	40101	HUNT_T2	4	2	-2	0.33	0.1	-0.23	-0.49	-0.3	0	0	0	0	0	0
6/4/2024 13:34	28403	HART_T2	0	0	0	0	0	0	-1.3	-1.26	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/4/2024 13:35	56803	BENV_T1	4	4	0	1.88	0.8	-1.08	0	0	0	0	0	0	0	0
6/4/2024 13:35	64201	KINZ_T1	2	9	7	0.2	0.25	0.05	0	0	0	0	0	0	0	0
6/4/2024 13:35	56801	BENV_T1	11	5	-6	0.43	0.64	0.21	-5.53	-4.87	12	12	0	7200	7200	0
6/4/2024 13:35	64204	KINZ_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
6/4/2024 13:35	64203	KINZ_T1	2	2	0	1.8	1.55	-0.25	1.04	0.95	6	6	0	4200	4200	0
6/4/2024 13:36	56801	BENV_T1	11	5	-6	0.43	0.64	0.21	-5.53	-4.87	12	12	0	7200	7200	0
6/4/2024 13:36	56803	BENV_T1	4	4	0	1.88	0.8	-1.08	0	0	0	0	0	0	0	0
6/4/2024 13:36	64203	KINZ_T1	2	2	0	1.8	1.55	-0.25	0	0	0	0	0	0	0	0
6/4/2024 13:36	64201	KINZ_T1	2	9	7	0.2	0.25	0.05	0	0	0	0	0	0	0	0
6/4/2024 13:36	64202	KINZ_T1	0	0	0	0	0	0	3.36	3.59	0	0	0	0	0	0
6/4/2024 13:36	64204	KINZ_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
6/4/2024 13:37	56803	BENV_T1	4	4	0	1.88	0.8	-1.08	0	0	0	0	0	0	0	0
6/4/2024 13:37	56801	BENV_T1	11	5	-6	0.43	0.64	0.21	-1.74	-1.62	4	4	0	2400	2400	0
6/4/2024 13:38	49803	UNIV_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/4/2024 13:38	49804	UNIV_T1	0	0	0	0	0	0	4.06	3.97	0	0	0	0	0	0
6/4/2024 13:39	43108	SMIL_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
6/4/2024 13:39	43103	SMIL_T2	0	0	0	0	0	0	-3.19	-3.07	0	0	0	0	0	0
6/4/2024 13:41	67402	WAKE_T2	0	0	0	0	0	0	0.68	0.32	2	2	0	1200	1200	0
6/4/2024 13:41	67605	WARW_T1	0	0	0	0	0	0	-1.47	-1.54	0	0	0	0	0	0
6/4/2024 13:42	67402	WAKE_T2	0	0	0	0	0	0	0.68	0.32	2	2	0	1200	1200	0
6/4/2024 13:44	67503	WEWI_T2	0	0	0	0	0	0	0.98	1.04	0	0	0	0	0	0
6/4/2024 13:44	67505	WEWI_T1	0	0	0	0	0	0	1.26	1.48	2	2	0	1800	1800	0
6/4/2024 13:46	67402	WAKE_T2	0	0	0	0	0	0	0.68	0.32	2	2	0	1200	1200	0
6/4/2024 13:49	17804	GILB_T2	1	1	0	0.1	0.6	0.5	-0.81	-0.79	0	0	0	0	0	0
6/4/2024 13:50	45802	HEGI_T2	43	44	1	0.82	0.66	-0.16	0.09	0.32	4	4	0	2400	2400	0
6/4/2024 13:51	13302	ORVI_T2	1	2	1	1.9	1.15	-0.75	1.73	1.64	0	0	0	0	0	0
6/4/2024 13:51	64305	LINC_T1	1	1	0	0.5	0.3	-0.2	-0.01	-0.06	0	0	0	0	0	0
6/4/2024 13:52	43108	SMIL_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
6/4/2024 13:52	43102	SMIL_T2	0	0	0	0	0	0	-0.88	-0.85	2	2	0	1200	1200	0
6/4/2024 13:54	48301	ORWI_T1	3	2	-1	1.8	2.55	0.75	0	0	2	2	0	1800	1800	0
6/4/2024 13:56	67402	WAKE_T2	0	0	0	0	0	0	0.32	0.37	2	2	0	1200	1200	0
6/4/2024 13:57	55408	SHER_T2	1	1	0	1.4	1	-0.4	-1.07	-1.11	2	2	0	2400	2400	0
6/4/2024 13:57	67605	WARW_T1	0	1	1	0	0.3	0.3	-1.54	-1.51	0	0	0	0	0	0
6/4/2024 14:00	16302	ALPA_T2	0	0	0	0	0	0	0.57	0.53	0	0	0	0	0	0
6/4/2024 14:00	42701	AUGU_T1	65	70	5	1	0.96	-0.04	0	0	0	0	0	0	0	0
6/4/2024 14:01	64204	KINZ_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/4/2024 14:01	64203	KINZ_T1	2	2	0	1.55	1.1	-0.45	0.96	0.66	6	6	0	4200	4200	0
6/4/2024 14:01	64201	KINZ_T1	9	7	-2	0.28	0	-0.28	0	0	0	0	0	0	0	0
6/4/2024 14:01	46803	HEPB_T2	0	1	1	0	0.7	0.7	1.33	1.33	0	0	0	0	0	0
6/4/2024 14:01	46801	HEPB_T2	3	2	-1	2.03	1.1	-0.93	0.61	0.6	0	0	0	0	0	0
6/4/2024 14:06	41204	KENM_T2	0	0	0	0	0	0	1.86	1.91	0	0	0	0	0	0
6/4/2024 14:07	57401	SPAN_T1	1	88	87	0.2	0.56	0.36	-0.92	-0.64	2	2	0	1200	1200	0
6/4/2024 14:09	43102	SMIL_T2	0	0	0	0	0	0	-0.83	-0.84	2	2	0	1200	1200	0
6/4/2024 14:09	43108	SMIL_T2	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
6/4/2024 14:10	24902	WHHA_T1	0	0	0	0	0	0	1.19	1.19	0	0	0	0	0	0
6/4/2024 14:10	24901	WHHA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/4/2024 14:10	55101	WERT_T1	2	2	0	0.1	0	-0.1	-3.47	-3.23	8	8	0	6600	6600	0
6/4/2024 14:10	55103	WERT_T1	1	1	0	5.6	4.6	-1	0	0	0	0	0	0	0	0
6/4/2024 14:12	67602	WARW_T2	0	0	0	0	0	0	0.95	1.06	8	8	0	6000	6000	0
6/4/2024 14:14	42701	AUGU_T1	65	70	5	1	0.96	-0.04	0	0	0	0	0	0	0	0
6/4/2024 14:16	52404	GRPA_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 14:16	52403	GRPA_T2	8	8	0	0.68	1.32	0.64	0.45	0.34	0	0	0	0	0	0
6/4/2024 14:17	64203	KINZ_T1	2	2	0	1.35	1.1	-0.25	0.66	0.5	6	6	0	4200	4200	0
6/4/2024 14:17	64204	KINZ_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/4/2024 14:17	64201	KINZ_T1	7	18	11	0.26	0	-0.26	0	0	0	0	0	0	0	0
6/4/2024 14:17	52403	GRPA_T2	8	8	0	0.68	1.32	0.64	0.45	0.34	0	0	0	0	0	0
6/4/2024 14:17	20601	GRWO_T2	0	1	1	0	0	0	1	1.01	0	0	0	0	0	0
6/4/2024 14:17	52404	GRPA_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 14:20	58401	MORO_T1	0	0	0	0	0	0	-4.68	-4.68	6	6	0	4200	4200	0
6/4/2024 14:21	12402	MILF_T1	22	27	5	0.39	0.32	-0.07	1.52	1.53	0	0	0	0	0	0
6/4/2024 14:22	58401	MORO_T1	0	0	0	0	0	0	-4.67	-4.67	6	6	0	4200	4200	0
6/4/2024 14:24	13606	RICH_T2	1	1	0	7.4	7.5	0.1	0.97	1.43	0	0	0	0	0	0
6/4/2024 14:25	67605	WARW_T1	1	0	-1	0.3	0	-0.3	-1.56	-1.55	0	0	0	0	0	0
6/4/2024 14:25	55103	WERT_T1	1	1	0	5.5	4.6	-0.9	0	0	0	0	0	0	0	0
6/4/2024 14:25	55101	WERT_T1	2	0	-2	0.2	0	-0.2	-9.68	-10.21	24	24	0	19800	19800	0
6/4/2024 14:26	24901	WHHA_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/4/2024 14:26	55103	WERT_T1	1	1	0	5.5	4.6	-0.9	0	0	0	0	0	0	0	0
6/4/2024 14:26	24902	WHHA_T1	0	0	0	0	0	0	1.19	1.23	0	0	0	0	0	0
6/4/2024 14:26	55101	WERT_T1	2	0	-2	0.2	0	-0.2	-3.23	-3.4	8	8	0	6600	6600	0
6/4/2024 14:27	55101	WERT_T1	2	0	-2	0.2	0	-0.2	-3.23	-3.4	8	8	0	6600	6600	0
6/4/2024 14:27	55103	WERT_T1	1	1	0	5.5	4.6	-0.9	0	0	0	0	0	0	0	0
6/4/2024 14:29	24102	EHAZ_T1	1	2	1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/4/2024 14:29	24105	EHAZ_T1	4	4	0	5.9	5.95	0.05	-3.01	-2.84	2	2	0	2400	2400	0
6/4/2024 14:29	41502	FAIR_T2	0	0	0	0	0	0	-2.8	-2.84	2	2	0	1800	1800	0
6/4/2024 14:29	24101	EHAZ_T1	44	40	-4	1.66	1.71	0.05	0	0	0	0	0	0	0	0
6/4/2024 14:29	42701	AUGU_T1	66	73	7	0.98	1.16	0.18	0	0	0	0	0	0	0	0
6/4/2024 14:30	41602	CLEV_T1	2	1	-1	0.3	0.3	0	0	0	2	2	0	1200	1200	0
6/4/2024 14:34	57304	MOAL_T2	2	3	1	0.3	0	-0.3	0.45	0.5	0	0	0	0	0	0
6/4/2024 14:34	57303	MOAL_T2	1	1	0	7.7	7.9	0.2	0	0	0	0	0	0	0	0
6/4/2024 14:35	64204	KINZ_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/4/2024 14:35	48301	ORWI_T1	2	2	0	2.6	2.8	0.2	0	0	2	2	0	1800	1800	0
6/4/2024 14:35	64201	KINZ_T1	0	18	18	0	0.4	0.4	0.61	0.78	8	8	0	4200	4200	0
6/4/2024 14:35	64203	KINZ_T1	2	2	0	1.1	1.35	0.25	0	0	0	0	0	0	0	0
6/4/2024 14:36	48301	ORWI_T1	2	2	0	2.6	2.8	0.2	0	0	2	2	0	1800	1800	0
6/4/2024 14:36	52001	LING_T1	0	0	0	0	0	0	1.72	1.72	0	0	0	0	0	0
6/4/2024 14:36	52003	LING_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 14:39	47402	PENS_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
6/4/2024 14:39	47401	PENS_T1	0	3	3	0	1.1	1.1	1.77	2.07	0	0	0	0	0	0
6/4/2024 14:39	47403	PENS_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
6/4/2024 14:41	61102	BERK_T5	0	0	0	0	0	0	-1.28	-1.23	6	6	0	4800	4800	0
6/4/2024 14:41	64101	REFR_T1	0	0	0	0	0	0	0.9	0.93	0	0	0	0	0	0
6/4/2024 14:42	43108	SMIL_T2	1	1	0	1.5	0.4	-1.1	-0.86	-2.44	4	4	0	4800	4800	0
6/4/2024 14:42	64101	REFR_T1	0	0	0	0	0	0	0.9	0.93	0	0	0	0	0	0
6/4/2024 14:42	45501	DERR_T2	2	3	1	1.05	0.75	-0.3	2.5	2.67	4	4	0	3600	3600	0
6/4/2024 14:42	45502	DERR_T2	5	1	-4	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/4/2024 14:45	12304	LANA_T2	33	33	1	0.45	0.39	-0.06	0	0	0	0	0	0	0	0
6/4/2024 14:45	12305	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 14:45	12301	LANA_T2	0	0	0	0	0	0	-1.52	-1.89	2	2	0	2400	2400	0
6/4/2024 14:46	45501	DERR_T2	3	3	0	0.6	1.3	0.7	2.5	2.67	4	4	0	3600	3600	0
6/4/2024 14:46	45502	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 14:46	40101	HUNT_T2	21	101	80	0.41	0.45	0.04	-0.09	-0.02	0	0	0	0	0	0
6/4/2024 14:47	45501	DERR_T2	3	3	0	0.6	1.3	0.7	2.5	2.67	4	4	0	3600	3600	0
6/4/2024 14:47	56803	BENV_T1	3	2	-1	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
6/4/2024 14:47	45502	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 14:47	56801	BENV_T1	5	11	6	0.34	0.59	0.25	-1.58	-1.6	4	4	0	2400	2400	0
6/4/2024 14:49	56801	BENV_T1	5	11	6	0.34	0.59	0.25	-6.32	-6.4	16	16	0	9600	9600	0
6/4/2024 14:49	56803	BENV_T1	3	2	-1	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
6/4/2024 14:50	56803	BENV_T1	3	2	-1	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
6/4/2024 14:50	56801	BENV_T1	5	11	6	0.34	0.59	0.25	-7.9	-8	20	20	0	12000	12000	0
6/4/2024 14:53	58302	NOTT_T1	0	0	0	0	0	0	-2.14	-1.13	4	4	0	4200	4200	0
6/4/2024 14:56	55103	WERT_T1	1	1	0	5.5	5	-0.5	0	0	0	0	0	0	0	0
6/4/2024 14:56	55101	WERT_T1	0	6	6	0	0.2	0.2	-3.38	-3.32	8	4	-4	6600	3300	-3300
6/4/2024 14:57	14404	SSLA_T1	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
6/4/2024 14:57	14403	SSLA_T1	0	0	0	0	0	0	3.19	3.19	0	0	0	0	0	0
6/4/2024 14:58	10805	CHHI_T2	94	110	16	0.78	0.83	0.05	-0.01	-0.03	2	1	-1	1200	600	-600
6/4/2024 15:05	20601	GRWO_T2	4	0	-4	0.7	0	-0.7	1.06	0.39	0	0	0	0	0	0
6/4/2024 15:05	52002	LING_T2	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 15:05	52004	LING_T2	0	0	0	0	0	0	0.73	0.18	0	0	0	0	0	0
6/4/2024 15:09	65604	QVIL_T2	0	0	0	0	0	0	0.84	0.84	0	0	0	0	0	0
6/4/2024 15:10	65604	QVIL_T2	0	0	0	0	0	0	0.84	0.84	0	0	0	0	0	0
6/4/2024 15:14	11405	FARM_T1	0	1	1	0	0	0	0.43	0.45	1	1	0	1200	1200	0
6/4/2024 15:14	11402	FARM_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
6/4/2024 15:14	64101	REFR_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
6/4/2024 15:16	56803	BENV_T1	2	3	1	0.95	0.1	-0.85	0	0	0	0	0	0	0	0
6/4/2024 15:16	56801	BENV_T1	11	10	-1	0.59	0.66	0.07	-1.67	-1.76	4	4	0	2400	2400	0
6/4/2024 15:18	56801	BENV_T1	11	10	-1	0.59	0.66	0.07	-0.84	-0.88	2	2	0	1200	1200	0
6/4/2024 15:18	56803	BENV_T1	2	3	1	0.95	0.1	-0.85	0	0	0	0	0	0	0	0
6/4/2024 15:20	63403	HONY_T2	0	0	0	0	0	0	0.01	-1.15	1	1	0	600	600	0
6/4/2024 15:20	63402	HONY_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/4/2024 15:20	56803	BENV_T1	2	3	1	0.95	0.1	-0.85	0	0	0	0	0	0	0	0
6/4/2024 15:20	56801	BENV_T1	11	10	-1	0.59	0.66	0.07	-0.84	-0.88	2	2	0	1200	1200	0
6/4/2024 15:21	64204	KINZ_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/4/2024 15:21	56801	BENV_T1	11	10	-1	0.59	0.66	0.07	-2.51	-2.64	6	6	0	3600	3600	0
6/4/2024 15:21	56803	BENV_T1	2	3	1	0.95	0.1	-0.85	0	0	0	0	0	0	0	0
6/4/2024 15:21	64201	KINZ_T1	30	8	-22	0.36	0.45	0.09	0	0	0	0	0	0	0	0
6/4/2024 15:21	64203	KINZ_T1	2	2	0	1.4	1.15	-0.25	0.29	0.48	3	3	0	2100	2100	0
6/4/2024 15:24	43108	SMIL_T2	0	0	0	0	0	0	-0.75	-0.75	1	1	0	1200	1200	0
6/4/2024 15:24	24902	WHHA_T1	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
6/4/2024 15:27	24902	WHHA_T1	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
6/4/2024 15:27	43304	WATS_T2	1	3	2	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/4/2024 15:28	45502	DERR_T2	1	2	1	1.4	0	-1.4	0	0	0	0	0	0	0	0
6/4/2024 15:28	45501	DERR_T2	2	4	2	0.8	0.9	0.1	1.34	1.38	2	2	0	1800	1800	0
6/4/2024 15:29	45501	DERR_T2	2	4	2	0.8	0.9	0.1	1.34	1.38	2	2	0	1800	1800	0
6/4/2024 15:29	45502	DERR_T2	1	2	1	1.4	0	-1.4	0	0	0	0	0	0	0	0
6/4/2024 15:29	64203	KINZ_T1	2	2	0	1.4	1.15	-0.25	0.29	0.48	3	3	0	2100	2100	0
6/4/2024 15:29	64201	KINZ_T1	30	8	-22	0.36	0.45	0.09	0	0	0	0	0	0	0	0
6/4/2024 15:29	64204	KINZ_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/4/2024 15:29	43304	WATS_T2	1	3	2	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/4/2024 15:31	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	-1.93	-2.51	10	10	0	5800	5800	0
6/4/2024 15:32	56801	BENV_T1	9	10	1	0.5	0.66	0.16	-3.52	-3.69	8	8	0	4800	4800	0
6/4/2024 15:32	56803	BENV_T1	3	1	-2	0.63	0	-0.63	0	0	0	0	0	0	0	0
6/4/2024 15:36	56801	BENV_T1	9	10	1	0.5	0.66	0.16	-0.88	-0.92	2	2	0	1200	1200	0
6/4/2024 15:36	56803	BENV_T1	3	1	-2	0.63	0	-0.63	0	0	0	0	0	0	0	0
6/4/2024 15:37	56803	BENV_T1	3	1	-2	0.63	0	-0.63	0	0	0	0	0	0	0	0
6/4/2024 15:37	56801	BENV_T1	9	10	1	0.5	0.66	0.16	-0.92	-0.96	2	2	0	1200	1200	0
6/4/2024 15:41	61701	ELIZ_T1	1	1	0	2.2	2.4	0.2	1.18	1.04	0	0	0	0	0	0
6/4/2024 15:44	11104	EGYP_T1	5	12	7	2.1	1.77	-0.33	1.03	1.05	0	0	0	0	0	0
6/4/2024 15:44	55101	WERT_T1	3	5	2	0.17	0.1	-0.07	-1.55	-1.56	4	4	0	3300	3300	0
6/4/2024 15:44	55103	WERT_T1	1	1	0	4.6	4.5	-0.1	0	0	0	0	0	0	0	0
6/4/2024 15:44	11102	EGYP_T1	2	3	1	0.85	0.9	0.05	0	0	0	0	0	0	0	0
6/4/2024 15:45	11104	EGYP_T1	6	19	13	1.77	1.54	-0.23	1.03	1.05	0	0	0	0	0	0
6/4/2024 15:45	11102	EGYP_T1	3	3	0	0.9	1.13	0.23	0	0	0	0	0	0	0	0
6/4/2024 15:46	61701	ELIZ_T1	1	1	0	2.3	2.5	0.2	1.18	1.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/4/2024 15:47	56803	BENV_T1	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 15:47	56801	BENV_T1	9	6	-3	0.67	0.38	-0.29	-0.92	-0.96	2	2	0	1200	1200	0
6/4/2024 15:50	25503	MADI_T1	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
6/4/2024 15:50	12701	MACU_T1	0	0	0	0	0	0	-1.4	-1.4	2	2	0	2400	2400	0
6/4/2024 15:51	13503	MCMI_T2	6	103	97	0.42	0.26	-0.16	-0.64	-0.68	0	0	0	0	0	0
6/4/2024 15:52	13503	MCMI_T2	6	103	97	0.42	0.26	-0.16	-0.68	-0.68	0	0	0	0	0	0
6/4/2024 15:53	42903	MIDD_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
6/4/2024 15:53	13503	MCMI_T2	6	103	97	0.42	0.26	-0.16	-0.68	-0.68	0	0	0	0	0	0
6/4/2024 15:53	42901	MIDD_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/4/2024 15:53	42902	MIDD_T2	0	0	0	0	0	0	-0.52	-0.11	1	1	0	600	600	0
6/4/2024 15:56	13503	MCMI_T2	6	103	97	0.42	0.26	-0.16	-0.68	-0.68	0	0	0	0	0	0
6/4/2024 15:57	67602	WARW_T2	0	2	2	0	0	0	0.27	0.29	2	2	0	1500	1500	0
6/4/2024 15:57	64101	REFR_T1	0	0	0	0	0	0	0.46	0.49	0	0	0	0	0	0
6/4/2024 15:57	13503	MCMI_T2	6	103	97	0.42	0.26	-0.16	-0.68	-0.68	0	0	0	0	0	0
6/4/2024 15:59	50502	MECH_T1	1	2	1	0.9	1.1	0.2	0	0	0	0	0	0	0	0
6/4/2024 16:08	47402	PENS_T1	0	4	4	0	1	1	0	0	0	0	0	0	0	0
6/4/2024 16:08	47403	PENS_T1	7	5	-2	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
6/4/2024 16:08	47401	PENS_T1	2	1	-1	0.3	0.6	0.3	0.51	0.56	0	0	0	0	0	0
6/4/2024 16:12	43103	SMIL_T2	0	0	0	0	0	0	-1.45	-1.4	0	0	0	0	0	0
6/4/2024 16:16	20603	GRWO_T2	0	2	2	0	0.2	0.2	-0.35	-0.35	1	1	0	900	900	0
6/4/2024 16:16	17804	GILB_T2	1	0	-1	0.9	0	-0.9	-0.38	-0.37	0	0	0	0	0	0
6/4/2024 16:16	20601	GRWO_T2	4	0	-4	0.45	0	-0.45	0	0	0	0	0	0	0	0
6/4/2024 16:16	17805	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 16:16	10801	CHHI_T1	79	72	-7	0.62	0.66	0.04	-1.03	-1.06	3	3	0	2100	2100	0
6/4/2024 16:19	23201	HIRU_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 16:19	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
6/4/2024 16:19	23202	HIRU_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/4/2024 16:23	64101	REFR_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
6/4/2024 16:33	23202	HIRU_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
6/4/2024 16:33	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
6/4/2024 16:33	63302	GREE_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
6/4/2024 16:34	41801	GOCI_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
6/4/2024 16:37	41801	GOCI_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
6/4/2024 16:38	48301	ORWI_T1	2	2	0	3.2	3.2	0	0	0	1	1	0	900	900	0
6/4/2024 16:42	29402	BELT_T1	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
6/4/2024 16:42	29401	BELT_T1	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
6/4/2024 16:45	29402	BELT_T1	1	1	0	7.9	7.7	-0.2	0	0	0	0	0	0	0	0
6/4/2024 16:45	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 16:51	47403	PENS_T1	2	1	-1	0.65	0.8	0.15	0	0	0	0	0	0	0	0
6/4/2024 16:51	47402	PENS_T1	2	0	-2	0.95	0	-0.95	0	0	0	0	0	0	0	0
6/4/2024 16:51	47401	PENS_T1	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
6/4/2024 16:58	46206	DANV_T2	9	16	7	0.6	0.75	0.15	0	0	0	0	0	0	0	0
6/4/2024 16:58	46204	DANV_T2	5	37	32	0.52	0.34	-0.18	0	0	0	0	0	0	0	0
6/4/2024 16:58	46203	DANV_T2	1	0	-1	0.7	0	-0.7	-1.4	-1.48	0	0	0	0	0	0
6/4/2024 17:01	46204	DANV_T2	25	36	11	0.45	0.46	0.01	0	0	0	0	0	0	0	0
6/4/2024 17:01	46206	DANV_T2	12	18	6	0.79	0.75	-0.04	0	0	0	0	0	0	0	0
6/4/2024 17:01	67103	SPRI_T1	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
6/4/2024 17:01	46203	DANV_T2	0	0	0	0	0	0	-2.81	-2.97	0	0	0	0	0	0
6/4/2024 17:04	40101	HUNT_T2	5	5	0	0.28	0.2	-0.08	-0.75	-0.79	0	0	0	0	0	0
6/4/2024 17:04	63403	HONY_T2	0	0	0	0	0	0	-1.7	-1.76	1	1	0	600	600	0
6/4/2024 17:04	63402	HONY_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/4/2024 17:08	57401	SPAN_T1	0	0	0	0	0	0	-1.07	-1.04	1	1	0	600	600	0
6/4/2024 17:09	57401	SPAN_T1	0	0	0	0	0	0	-2.13	-2.09	2	2	0	1200	1200	0
6/4/2024 17:09	54203	PENN_T1	5	5	0	0.62	0.8	0.18	0.44	0.44	1	1	0	600	600	0
6/4/2024 17:09	54201	PENN_T1	7	14	7	0.59	0.43	-0.16	0	0	0	0	0	0	0	0
6/4/2024 17:11	43505	WWIL_T1	1	1	0	2.8	2.9	0.1	0	0	0	0	0	0	0	0
6/4/2024 17:11	43504	WWIL_T1	0	2	2	0	0.1	0.1	1.25	1.25	0	0	0	0	0	0
6/4/2024 17:11	43506	WWIL_T1	1	1	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0
6/4/2024 17:12	13701	SCHN_T2	0	0	0	0	0	0	0.25	0.25	1	1	0	600	600	0
6/4/2024 17:17	10801	CHHI_T1	117	132	15	0.65	0.66	0.01	-1.1	-1.1	3	3	0	2100	2100	0
6/4/2024 17:24	42201	SHEN_T2	0	0	0	0	0	0	-0.25	0.34	1	1	0	600	600	0
6/4/2024 17:28	44301	BEAV_T2	4	7	3	0.95	0.65	-0.3	0.49	0.47	1	1	0	600	600	0
6/4/2024 17:29	45501	DERR_T2	1	3	2	0.4	1.3	0.9	1.04	1.05	2	2	0	1800	1800	0
6/4/2024 17:32	52401	GRPA_T2	25	64	39	0.48	0.56	0.08	0	0	0	0	0	0	0	0
6/4/2024 17:32	52403	GRPA_T2	57	67	10	1.19	0.94	-0.25	0.24	0.11	0	0	0	0	0	0
6/4/2024 17:32	52402	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/4/2024 17:35	52402	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/4/2024 17:35	52401	GRPA_T2	25	64	39	0.48	0.56	0.08	0	0	0	0	0	0	0	0
6/4/2024 17:35	52403	GRPA_T2	57	67	10	1.19	0.94	-0.25	0.24	0.11	0	0	0	0	0	0
6/4/2024 17:36	20603	GRWO_T2	1	1	0	0.1	0.1	0	-0.37	-0.37	1	1	0	900	900	0
6/4/2024 17:36	20601	GRWO_T2	2	5	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 17:37	57106	SPHI_T2	2	3	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/4/2024 17:37	57104	SPHI_T2	1	1	0	0.7	0.8	0.1	-0.8	-0.8	1	1	0	900	900	0
6/4/2024 17:37	57101	SPHI_T2	0	6	6	0	0.32	0.32	0	0	0	0	0	0	0	0
6/4/2024 17:39	43103	SMIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/4/2024 17:39	43104	SMIL_T2	0	0	0	0	0	0	-0.33	-0.31	1	1	0	300	300	0
6/4/2024 17:39	43101	SMIL_T2	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
6/4/2024 17:42	59101	WALK_T2	0	0	0	0	0	0	1.06	1.16	2	2	0	1200	1200	0
6/4/2024 17:43	44801	EDAN_T2	7	9	2	0.61	0.8	0.19	0.85	0.84	0	0	0	0	0	0
6/4/2024 17:45	45501	DERR_T2	2	17	15	0.85	0	-0.85	2.1	1.96	4	4	0	3600	3600	0
6/4/2024 17:45	45502	DERR_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/4/2024 17:46	44801	EDAN_T2	6	7	1	0.72	0.87	0.15	0.85	0.84	0	0	0	0	0	0
6/4/2024 17:52	54201	PENN_T1	19	63	44	0.39	0.37	-0.02	-1.49	-1.58	0	0	0	0	0	0
6/4/2024 17:52	54205	PENN_T1	0	19	19	0	0.11	0.11	0	0	0	0	0	0	0	0
6/4/2024 17:52	54203	PENN_T1	11	19	8	0.52	0.71	0.19	0	0	0	0	0	0	0	0
6/4/2024 17:56	43103	SMIL_T2	1	0	-1	0.1	0	-0.1	-1.48	-1.51	0	0	0	0	0	0
6/4/2024 17:56	25601	ARRO_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
6/4/2024 17:56	25603	ARRO_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 17:56	25602	ARRO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 17:56	43101	SMIL_T2	1	1	0	1.5	0.7	-0.8	0	0	0	0	0	0	0	0
6/4/2024 17:57	43101	SMIL_T2	1	1	0	1.5	0.7	-0.8	0	0	0	0	0	0	0	0
6/4/2024 17:57	43103	SMIL_T2	1	0	-1	0.1	0	-0.1	-1.48	-1.51	0	0	0	0	0	0
6/4/2024 17:58	43101	SMIL_T2	1	1	0	1.5	0.7	-0.8	0	0	0	0	0	0	0	0
6/4/2024 17:58	43103	SMIL_T2	1	0	-1	0.1	0	-0.1	-2.95	-3.02	0	0	0	0	0	0
6/4/2024 18:00	56802	BENV_T2	0	0	0	0	0	0	-0.73	-0.77	1	0	-1	600	0	-600
6/4/2024 18:04	23403	HONE_T1	0	0	0	0	0	0	-0.35	-0.25	0	0	0	0	0	0
6/4/2024 18:07	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 18:07	13503	MCMI_T2	0	22	22	0	0.14	0.14	-0.66	-0.65	0	0	0	0	0	0
6/4/2024 18:12	42701	AUGU_T1	87	84	-3	2.35	2.03	-0.32	0	0	0	0	0	0	0	0
6/4/2024 18:13	42701	AUGU_T1	87	84	-3	2.35	2.03	-0.32	0	0	0	0	0	0	0	0
6/4/2024 18:14	11102	EGYP_T1	3	6	3	1.13	0.7	-0.43	0	0	0	0	0	0	0	0
6/4/2024 18:14	63305	GREE_T1	2	3	1	0	0.23	0.23	-1.64	-1.64	1	1	0	900	900	0
6/4/2024 18:14	11104	EGYP_T1	7	5	-2	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
6/4/2024 18:14	11103	EGYP_T1	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
6/4/2024 18:14	63304	GREE_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 18:15	61701	ELIZ_T1	1	1	0	2.3	2.6	0.3	1.17	1.1	0	0	0	0	0	0
6/4/2024 18:15	63305	GREE_T1	3	3	0	0.2	0.27	0.07	-1.64	-1.64	1	1	0	900	900	0
6/4/2024 18:15	63304	GREE_T1	0	7	7	0	0.14	0.14	0	0	0	0	0	0	0	0
6/4/2024 18:16	11104	EGYP_T1	5	4	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/4/2024 18:16	53902	HALI_T2	1	1	0	5.3	4.9	-0.4	0	0	0	0	0	0	0	0
6/4/2024 18:16	11103	EGYP_T1	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
6/4/2024 18:16	11102	EGYP_T1	4	7	3	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/4/2024 18:16	53901	HALI_T2	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
6/4/2024 18:16	53903	HALI_T2	2	2	0	0.9	1.25	0.35	0	0	0	0	0	0	0	0
6/4/2024 18:17	45502	DERR_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/4/2024 18:17	45501	DERR_T2	16	17	1	3.72	0	-3.72	0.98	0.97	2	2	0	1800	1800	0
6/4/2024 18:20	45502	DERR_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/4/2024 18:20	45501	DERR_T2	16	17	1	3.72	0	-3.72	0.98	0.97	2	2	0	1800	1800	0
6/4/2024 18:21	28703	HAML_T2	3	3	0	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
6/4/2024 18:21	28702	HAML_T2	1	0	-1	4.2	0	-4.2	0	0	0	0	0	0	0	0
6/4/2024 18:21	44801	EDAN_T2	3	10	7	0.87	2.2	1.33	0.83	0.82	0	0	0	0	0	0
6/4/2024 18:21	28704	HAML_T2	2	2	0	2.05	0.3	-1.75	0.04	0.04	0	0	0	0	0	0
6/4/2024 18:23	54205	PENN_T1	19	38	19	0.11	0.11	0	0	0	0	0	0	0	0	0
6/4/2024 18:23	54201	PENN_T1	63	70	7	0.37	0.45	0.08	-1.54	-1.5	0	0	0	0	0	0
6/4/2024 18:23	54203	PENN_T1	19	19	0	0.71	0.76	0.05	0	0	0	0	0	0	0	0
6/4/2024 18:25	43104	SMIL_T2	0	0	0	0	0	0	-0.36	-0.36	1	1	0	300	300	0
6/4/2024 18:25	43101	SMIL_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/4/2024 18:25	67702	WERN_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
6/4/2024 18:26	46001	BERW_T1	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
6/4/2024 18:26	43104	SMIL_T2	0	0	0	0	0	0	-0.36	-0.36	1	1	0	300	300	0
6/4/2024 18:26	43101	SMIL_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/4/2024 18:27	14404	SSLA_T1	1	1	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
6/4/2024 18:27	14403	SSLA_T1	7	8	1	0.43	1.15	0.72	2.85	2.79	0	0	0	0	0	0
6/4/2024 18:27	43101	SMIL_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/4/2024 18:27	67702	WERN_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
6/4/2024 18:27	43104	SMIL_T2	0	0	0	0	0	0	-0.72	-0.72	2	2	0	600	600	0
6/4/2024 18:28	11101	EGYP_T1	0	0	0	0	0	0	-0.21	-0.22	1	1	0	1200	1200	0
6/4/2024 18:28	11104	EGYP_T1	5	4	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/4/2024 18:28	10707	CATA_T2	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
6/4/2024 18:28	11102	EGYP_T1	4	7	3	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/4/2024 18:28	46001	BERW_T1	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
6/4/2024 18:29	46001	BERW_T1	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
6/4/2024 18:31	61701	ELIZ_T1	1	1	0	2.3	2.6	0.3	1.1	0.88	0	0	0	0	0	0
6/4/2024 18:37	54203	PENN_T1	19	19	0	0.74	0.68	-0.06	0.97	0.94	0	0	0	0	0	0
6/4/2024 18:37	54205	PENN_T1	2	38	36	0.1	0.11	0.01	0	0	0	0	0	0	0	0
6/4/2024 18:37	54201	PENN_T1	58	70	12	0.42	0.45	0.03	0	0	0	0	0	0	0	0
6/4/2024 18:39	65602	QVIL_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
6/4/2024 18:39	65603	QVIL_T2	1	1	0	1.1	0	-1.1	-0.4	-0.42	0	0	0	0	0	0
6/4/2024 18:39	65604	QVIL_T2	1	4	3	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/4/2024 18:40	67702	WERN_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
6/4/2024 18:42	58003	WCAR_T1	1	28	27	1.3	0.29	-1.01	0.5	0.47	1	1	0	600	600	0
6/4/2024 18:42	58001	WCAR_T1	0	5	5	0	0.44	0.44	0	0	0	0	0	0	0	0
6/4/2024 18:42	67702	WERN_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
6/4/2024 18:43	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 18:43	29402	BELT_T1	1	1	0	7.6	7.9	0.3	0	0	0	0	0	0	0	0
6/4/2024 18:47	63304	GREE_T1	7	11	4	0.14	0.26	0.12	0	0	0	0	0	0	0	0
6/4/2024 18:47	63306	GREE_T1	0	0	0	0	0	0	-1.63	-1.65	1	1	0	900	900	0
6/4/2024 18:47	63302	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 18:47	63305	GREE_T1	3	13	10	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
6/4/2024 18:52	44201	POIN_T1	0	0	0	0	0	0	-1.67	-1.77	2	2	0	2100	2100	0
6/4/2024 18:54	44201	POIN_T1	0	0	0	0	0	0	-1.67	-1.77	2	2	0	2100	2100	0
6/4/2024 18:57	29402	BELT_T1	1	1	0	7.9	7.8	-0.1	0	0	0	0	0	0	0	0
6/4/2024 18:57	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/4/2024 19:01	44802	EDAN_T2	0	0	0	0	0	0	-1.61	-1.63	0	0	0	0	0	0
6/4/2024 19:01	44801	EDAN_T2	8	9	1	0.65	0.83	0.18	0	0	0	0	0	0	0	0
6/4/2024 19:02	44801	EDAN_T2	8	9	1	0.65	0.83	0.18	0.81	0.8	0	0	0	0	0	0
6/4/2024 19:02	44802	EDAN_T2	0	0	0	0	0	0	-1.61	-1.63	0	0	0	0	0	0
6/4/2024 19:03	44802	EDAN_T2	0	0	0	0	0	0	-1.61	-1.63	0	0	0	0	0	0
6/4/2024 19:03	44801	EDAN_T2	8	9	1	0.65	0.83	0.18	0	0	0	0	0	0	0	0
6/4/2024 19:07	43104	SMIL_T2	0	0	0	0	0	0	-0.34	-0.44	1	1	0	300	300	0
6/4/2024 19:08	43104	SMIL_T2	0	0	0	0	0	0	-0.67	-0.88	2	2	0	600	600	0
6/4/2024 19:09	43104	SMIL_T2	0	0	0	0	0	0	-0.34	-0.44	1	1	0	300	300	0
6/4/2024 19:09	21206	ECAR_T2	1	6	5	7.4	7.8	0.4	0.51	0.5	0	0	0	0	0	0
6/4/2024 19:09	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 19:10	57106	SPHI_T2	3	3	0	0.97	0.67	-0.3	0	0	0	0	0	0	0	0
6/4/2024 19:10	57101	SPHI_T2	6	0	-6	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/4/2024 19:10	57104	SPHI_T2	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
6/4/2024 19:10	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 19:10	57103	SPHI_T2	0	0	0	0	0	0	-0.2	-0.22	1	1	0	600	600	0
6/4/2024 19:14	46001	BERW_T1	0	1	1	0	0	0	-0.05	-0.08	0	0	0	0	0	0
6/4/2024 19:15	61701	ELIZ_T1	1	1	0	2.9	3.4	0.5	0.97	0.88	0	0	0	0	0	0
6/4/2024 19:15	13201	PALM_T1	3	7	4	0.77	0.4	-0.37	-1.37	-1.38	1	1	0	1200	1200	0
6/4/2024 19:17	50201	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 19:17	50107	HARR_T3	0	0	0	0	0	0	0.86	0.85	0	0	0	0	0	0
6/4/2024 19:17	50103	HARR_T3	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/4/2024 19:17	62105	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 19:17	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 19:17	62102	ELAN_T1	0	0	0	0	0	0	0.98	0.79	0	0	0	0	0	0
6/4/2024 19:17	50105	HARR_T3	6	6	0	6.12	5.85	-0.27	0	0	0	0	0	0	0	0
6/4/2024 19:18	64902	MILL_T2	0	0	0	0	0	0	-0.66	-0.68	1	1	0	900	900	0
6/4/2024 19:19	46001	BERW_T1	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
6/4/2024 19:23	41901	REED_T1	8	8	0	0.31	0.49	0.18	0	0	0	0	0	0	0	0
6/4/2024 19:23	41902	REED_T1	18	27	9	0.39	0.36	-0.03	1.3	1.25	0	0	0	0	0	0
6/4/2024 19:28	16007	DORN_T1	0	0	0	0	0	0	1.14	1.13	0	0	0	0	0	0
6/4/2024 19:28	60101	COCA_T1	0	0	0	0	0	0	-0.32	-0.34	1	1	0	1200	1200	0
6/4/2024 19:29	67805	WLAN_T1	0	0	0	0	0	0	-0.87	-0.91	0	0	0	0	0	0
6/4/2024 19:29	67804	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 19:31	61505	EPET_T1	0	0	0	0	0	0	1.34	1.29	0	0	0	0	0	0
6/4/2024 19:31	64904	MILL_T1	0	0	0	0	0	0	0.43	0.38	0	0	0	0	0	0
6/4/2024 19:31	60101	COCA_T1	0	0	0	0	0	0	-0.32	-0.34	1	1	0	1200	1200	0
6/4/2024 19:33	64904	MILL_T1	0	0	0	0	0	0	0.43	0.38	0	0	0	0	0	0
6/4/2024 19:33	61505	EPET_T1	0	0	0	0	0	0	4.01	3.88	0	0	0	0	0	0
6/4/2024 19:39	52402	GRPA_T2	3	3	0	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
6/4/2024 19:39	52401	GRPA_T2	1	6	5	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
6/4/2024 19:39	52403	GRPA_T2	50	30	-20	1.03	0.75	-0.28	-0.11	0.47	0	0	0	0	0	0
6/4/2024 19:41	43103	SMIL_T2	0	0	0	0	0	0	-1.7	-1.72	0	0	0	0	0	0
6/4/2024 19:41	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/4/2024 19:42	43103	SMIL_T2	0	0	0	0	0	0	-1.7	-1.72	0	0	0	0	0	0
6/4/2024 19:42	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/4/2024 19:44	20403	ASHF_T2	0	0	0	0	0	0	0.85	0.83	0	0	0	0	0	0
6/4/2024 19:46	53501	EVIL_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
6/4/2024 19:46	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 19:46	53502	EVIL_T2	0	0	0	0	0	0	-0.06	-0.07	2	2	0	1200	1200	0
6/4/2024 19:46	40502	CRES_T2	4	5	1	0.18	0.18	0	-1	-1.08	0	0	0	0	0	0
6/4/2024 19:47	40502	CRES_T2	4	5	1	0.18	0.18	0	-0.33	-0.36	0	0	0	0	0	0
6/4/2024 19:47	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 19:47	10801	CHIH_T1	2	4	2	0.2	0.2	0	-1.27	-1.31	3	3	0	2100	2100	0
6/4/2024 19:50	64201	KINZ_T1	1	0	-1	0.2	0	-0.2	-0.84	-0.34	4	3	-1	2100	1500	-600
6/4/2024 19:50	64204	KINZ_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
6/4/2024 19:57	61102	BERK_T5	0	0	0	0	0	0	-0.08	-0.18	3	3	0	2400	2400	0
6/4/2024 20:11	12305	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 20:11	12302	LANA_T2	0	0	0	0	0	0	-1.99	-2.02	3	3	0	2700	2700	0
6/4/2024 20:11	12304	LANA_T2	3	2	-1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
6/4/2024 20:15	29402	BELT_T1	1	1	0	8.8	8.3	-0.5	0	0	0	0	0	0	0	0
6/4/2024 20:22	43104	SMIL_T2	0	0	0	0	0	0	-0.49	-0.5	1	1	0	300	300	0
6/4/2024 20:27	43202	MVIL_T2	3	4	1	1.1	0.15	-0.95	0	0	0	0	0	0	0	0
6/4/2024 20:27	43201	MVIL_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
6/4/2024 20:31	46001	BERW_T1	0	0	0	0	0	0	1.04	1.02	0	0	0	0	0	0
6/4/2024 20:37	57101	SPHI_T2	6	6	0	0.18	0.4	0.22	0	0	0	0	0	0	0	0
6/4/2024 20:37	57104	SPHI_T2	2	2	0	4.55	1.5	-3.05	0	0	0	0	0	0	0	0
6/4/2024 20:37	57106	SPHI_T2	3	3	0	0.53	1.2	0.67	0	0	0	0	0	0	0	0
6/4/2024 20:37	57103	SPHI_T2	1	0	-1	4.8	0	-4.8	-0.35	-0.38	1	1	0	600	600	0
6/4/2024 20:46	57401	SPAN_T1	0	0	0	0	0	0	-1.04	-1.02	1	1	0	600	600	0
6/4/2024 20:59	15103	UPHA_T2	0	0	0	0	0	0	0.86	0.84	0	0	0	0	0	0
6/4/2024 21:02	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 21:10	10103	ALLE_T3	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
6/4/2024 21:10	10109	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 21:10	10105	ALLE_T3	7	11	4	0.43	0.56	0.13	0	0	0	0	0	0	0	0
6/4/2024 21:10	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 21:23	46302	ROHR_T1	3	4	1	0.57	1.08	0.51	0.29	0.29	0	0	0	0	0	0
6/4/2024 21:25	46302	ROHR_T1	3	4	1	0.57	1.08	0.51	0.29	0.29	0	0	0	0	0	0
6/4/2024 21:44	46302	ROHR_T1	4	4	0	0.8	1.03	0.23	0	0	0	0	0	0	0	0
6/4/2024 21:44	64101	REFR_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
6/4/2024 21:44	46301	ROHR_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
6/4/2024 21:47	46004	BERW_T2	0	0	0	0	0	0	0.64	0.55	0	0	0	0	0	0
6/4/2024 21:49	47002	HUGH_T2	4	1	-3	0.2	0.2	0	0	0	0	0	0	0	0	0
6/4/2024 21:49	47001	HUGH_T2	0	0	0	0	0	0	-1.05	-1.06	0	0	0	0	0	0
6/4/2024 21:54	64802	MONE_T2	0	1	1	0	0.2	0.2	0.32	0.31	0	0	0	0	0	0
6/4/2024 21:54	64801	MONE_T2	1	4	3	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
6/4/2024 21:56	64903	MILL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 21:56	64902	MILL_T2	0	0	0	0	0	0	-0.22	-0.23	1	1	0	900	900	0
6/4/2024 22:07	42102	FRAI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:12	55101	WERT_T1	0	0	0	0	0	0	-1.84	-1.85	3	3	0	2400	2400	0
6/4/2024 22:13	12402	MILF_T1	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
6/4/2024 22:14	54203	PENN_T1	18	5	-13	0.54	0.92	0.38	0	0	0	0	0	0	0	0
6/4/2024 22:14	54201	PENN_T1	10	3	-7	0.66	0.77	0.11	-0.51	-0.58	0	0	0	0	0	0
6/4/2024 22:14	17002	RIRO_T2	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
6/4/2024 22:16	56803	BENV_T1	1	1	0	2	0.4	-1.6	0	0	0	0	0	0	0	0
6/4/2024 22:16	56801	BENV_T1	5	7	2	0.66	0.89	0.23	-0.5	-0.53	1	1	0	600	600	0
6/4/2024 22:17	16102	BING_T2	17	0	-17	0.51	0	-0.51	0	0	0	0	0	0	0	0
6/4/2024 22:17	16101	BING_T2	0	0	0	0	0	0	0.76	0.75	0	0	0	0	0	0
6/4/2024 22:18	46206	DANV_T2	2	2	0	0.9	0.5	-0.4	6.86	6.88	2	2	0	2400	2400	0
6/4/2024 22:21	50201	HARR_T3	1	1	0	8.8	9	0.2	0	0	0	0	0	0	0	0
6/4/2024 22:21	50103	HARR_T3	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
6/4/2024 22:21	50105	HARR_T3	6	6	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
6/4/2024 22:21	56803	BENV_T1	1	1	0	2	0.4	-1.6	0	0	0	0	0	0	0	0
6/4/2024 22:21	29402	BELT_T1	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
6/4/2024 22:21	56801	BENV_T1	5	7	2	0.66	0.89	0.23	-0.5	-0.53	1	1	0	600	600	0
6/4/2024 22:21	47401	PENS_T1	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
6/4/2024 22:21	50107	HARR_T3	0	0	0	0	0	0	0.8	0.78	0	0	0	0	0	0
6/4/2024 22:21	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
6/4/2024 22:22	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
6/4/2024 22:22	65001	NEFF_T2	0	0	0	0	0	0	-0.47	-0.56	1	1	0	1200	1200	0
6/4/2024 22:23	24201	PROV_T3	1	1	0	8.2	7.7	-0.5	-1	-1.02	1	1	0	1200	1200	0
6/4/2024 22:23	57106	SPHI_T2	3	3	0	0.83	1.17	0.34	0	0	0	0	0	0	0	0
6/4/2024 22:23	57401	SPAN_T1	0	0	0	0	0	0	-0.7	-0.77	1	1	0	600	600	0
6/4/2024 22:23	57104	SPHI_T2	1	1	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
6/4/2024 22:23	66504	SMAN_T2	0	0	0	0	0	0	-1.16	-1.22	1	1	0	1200	1200	0
6/4/2024 22:23	57101	SPHI_T2	0	6	6	0	0.47	0.47	0	0	0	0	0	0	0	0
6/4/2024 22:23	57103	SPHI_T2	0	0	0	0	0	0	0.12	0	1	1	0	600	600	0
6/4/2024 22:23	67603	WARW_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
6/4/2024 22:23	24204	PROV_T3	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
6/4/2024 22:24	17802	GILB_T1	1	1	0	0.3	0.1	-0.2	0.25	0.22	0	0	0	0	0	0
6/4/2024 22:24	40502	CRES_T2	3	11	8	0.13	0.31	0.18	-0.63	-0.68	0	0	0	0	0	0
6/4/2024 22:24	16302	ALPA_T2	0	0	0	0	0	0	1.07	1.01	0	0	0	0	0	0
6/4/2024 22:24	17805	GILB_T2	0	0	0	0	0	0	0.12	0.08	0	0	0	0	0	0
6/4/2024 22:24	57401	SPAN_T1	0	0	0	0	0	0	-0.7	-0.77	1	1	0	600	600	0
6/4/2024 22:24	65604	QVIL_T2	0	0	0	0	0	0	0.54	0.49	0	0	0	0	0	0
6/4/2024 22:24	20401	ASHF_T2	1	2	1	0.1	0.35	0.25	0.04	-0.02	0	0	0	0	0	0
6/4/2024 22:24	60101	COCA_T1	0	0	0	0	0	0	-0.64	-0.7	1	1	0	1200	1200	0
6/4/2024 22:24	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:24	11101	EGYP_T1	0	0	0	0	0	0	-0.21	-0.19	1	1	0	1200	1200	0
6/4/2024 22:24	50105	HARR_T3	6	6	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
6/4/2024 22:24	50201	HARR_T3	1	1	0	8.8	9	0.2	0	0	0	0	0	0	0	0
6/4/2024 22:24	50103	HARR_T3	0	4	4	0	0.35	0.35	-1.6	-1.55	1	1	0	1200	1200	0
6/4/2024 22:24	64101	REFR_T1	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
6/4/2024 22:24	13905	SEID_T1	0	0	0	0	0	0	-0.66	-0.71	1	1	0	1200	1200	0
6/4/2024 22:25	13303	ORVI_T1	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
6/4/2024 22:25	56801	BENV_T1	5	7	2	0.66	0.89	0.23	-0.53	-0.61	1	1	0	600	600	0
6/4/2024 22:25	56803	BENV_T1	1	1	0	2	0.4	-1.6	0	0	0	0	0	0	0	0
6/4/2024 22:25	54504	ENOL_T2	0	0	0	0	0	0	-0.77	-0.79	1	1	0	600	600	0
6/4/2024 22:25	66504	SMAN_T2	0	0	0	0	0	0	-2.31	-2.44	2	2	0	2400	2400	0
6/4/2024 22:25	63403	HONY_T2	0	0	0	0	0	0	-0.83	-0.7	0	0	0	0	0	0
6/4/2024 22:25	16102	BING_T2	17	0	-17	0.51	0	-0.51	0.57	0.56	0	0	0	0	0	0
6/4/2024 22:25	54203	PENN_T1	5	5	0	0.92	0.72	-0.2	0	0	0	0	0	0	0	0
6/4/2024 22:25	67702	WERN_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
6/4/2024 22:25	61102	BERK_T5	0	0	0	0	0	0	-0.75	0.3	3	2	-1	2400	1200	-1200
6/4/2024 22:25	52004	LING_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
6/4/2024 22:25	64204	KINZ_T1	11	16	5	0.26	0.26	0	0	0	0	0	0	0	0	0
6/4/2024 22:25	64201	KINZ_T1	6	7	1	0.27	0.39	0.12	0.77	0.74	1	1	0	300	300	0
6/4/2024 22:25	64202	KINZ_T1	4	7	3	0.33	0.17	-0.16	0	0	0	0	0	0	0	0
6/4/2024 22:25	64302	LINC_T2	0	0	0	0	0	0	1.4	1.31	0	0	0	0	0	0
6/4/2024 22:25	54201	PENN_T1	3	3	0	0.67	0.87	0.2	-0.58	-0.65	0	0	0	0	0	0
6/4/2024 22:25	67602	WARW_T2	0	0	0	0	0	0	0.05	0.05	2	2	0	1500	1500	0
6/4/2024 22:25	63402	HONY_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
6/4/2024 22:25	45901	AUBU_T1	0	0	0	0	0	0	2.29	2.27	0	0	0	0	0	0
6/4/2024 22:25	10805	CHIH_T2	1	1	0	8.4	7.9	-0.5	-0.79	-0.91	1	1	0	600	600	0
6/4/2024 22:26	67702	WERN_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
6/4/2024 22:26	12701	MACU_T1	0	0	0	0	0	0	-0.97	-0.98	1	1	0	1200	1200	0
6/4/2024 22:26	67502	WEWI_T2	5	6	1	0.12	0.32	0.2	0	0	0	0	0	0	0	0
6/4/2024 22:26	20603	GRWO_T2	10	17	7	0.16	0.19	0.03	0	0	0	0	0	0	0	0
6/4/2024 22:26	60501	NMAN_T2	3	3	0	4.2	4.43	0.23	0	0	0	0	0	0	0	0
6/4/2024 22:26	20401	ASHF_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
6/4/2024 22:26	64903	MILL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 22:26	15603	NSTR_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
6/4/2024 22:26	64902	MILL_T2	0	0	0	0	0	0	-0.25	-0.29	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/4/2024 22:26	45902	AUBU_T1	0	0	0	0	0	0	-0.92	-0.93	1	1	0	600	600	0
6/4/2024 22:26	29402	BELT_T1	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
6/4/2024 22:26	64904	MILL_T1	0	1	1	0	0.2	0.2	0.06	0.01	0	0	0	0	0	0
6/4/2024 22:26	56801	BENV_T1	5	7	2	0.66	0.89	0.23	-1.6	-1.84	3	3	0	1800	1800	0
6/4/2024 22:26	61102	BERK_T5	0	0	0	0	0	0	-0.75	0.3	3	2	-1	2400	1200	-1200
6/4/2024 22:26	11103	EGYP_T1	0	0	0	0	0	0	0.61	0.57	0	0	0	0	0	0
6/4/2024 22:26	48302	ORWI_T2	2	2	0	0.85	1.05	0.2	-0.42	-0.45	0	0	0	0	0	0
6/4/2024 22:26	64901	MILL_T1	6	6	0	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
6/4/2024 22:26	29401	BELT_T1	0	0	0	0	0	0	0	1	1	0	900	900	0	
6/4/2024 22:26	67204	TEHI_T2	0	0	0	0	0	0	-0.11	-0.17	0	0	0	0	0	0
6/4/2024 22:26	16302	ALPA_T2	0	0	0	0	0	0	1.07	1.01	0	0	0	0	0	0
6/4/2024 22:26	67503	WEWI_T2	0	0	0	0	0	0	0.57	0.3	0	0	0	0	0	0
6/4/2024 22:26	61505	EPET_T1	0	0	0	0	0	0	0.91	0.82	0	0	0	0	0	0
6/4/2024 22:26	15601	NSTR_T2	3	3	0	0.57	0.7	0.13	0	0	0	0	0	0	0	0
6/4/2024 22:26	60502	NMAN_T2	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
6/4/2024 22:26	56803	BENV_T1	1	1	0	2	0.4	-1.6	0	0	0	0	0	0	0	0
6/4/2024 22:26	60803	BUCK_T1	0	0	0	0	0	0	-0.41	-0.4	1	1	0	600	600	0
6/4/2024 22:26	20403	ASHF_T2	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
6/4/2024 22:26	57401	SPAN_T1	0	0	0	0	0	0	-0.7	-0.77	1	1	0	600	600	0
6/4/2024 22:26	20601	GRWO_T2	0	0	0	0	0	0	-0.02	-0.08	0	0	0	0	0	0
6/4/2024 22:27	14404	SSLA_T1	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
6/4/2024 22:27	29402	BELT_T1	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
6/4/2024 22:27	54203	PENN_T1	5	5	0	0.92	0.72	-0.2	0	0	0	0	0	0	0	0
6/4/2024 22:27	56803	BENV_T1	1	1	0	2	0.4	-1.6	0	0	0	0	0	0	0	0
6/4/2024 22:27	29401	BELT_T1	0	0	0	0	0	0	0	1	1	0	900	900	0	
6/4/2024 22:27	17805	GILB_T2	0	0	0	0	0	0	0.12	0.08	0	0	0	0	0	0
6/4/2024 22:27	14403	SSLA_T1	0	0	0	0	0	0	0.97	0.84	0	0	0	0	0	0
6/4/2024 22:27	44601	SALE_T2	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
6/4/2024 22:27	63305	GREE_T1	0	0	0	0	0	0	-0.99	-1.05	0	0	0	0	0	0
6/4/2024 22:27	66703	STRA_T1	3	5	2	0.15	0.3	0.15	0.01	-0.09	0	0	0	0	0	0
6/4/2024 22:27	45902	AUBU_T1	0	0	0	0	0	0	-0.92	-0.93	1	1	0	600	600	0
6/4/2024 22:27	54201	PENN_T1	3	3	0	0.67	0.87	0.2	-0.58	-0.65	0	0	0	0	0	0
6/4/2024 22:27	64204	KINZ_T1	11	16	5	0.26	0.26	0	0	0	0	0	0	0	0	0
6/4/2024 22:27	56801	BENV_T1	5	7	2	0.66	0.89	0.23	-1.07	-1.22	2	2	0	1200	1200	0
6/4/2024 22:27	64201	KINZ_T1	6	7	1	0.27	0.39	0.12	0.77	0.74	1	1	0	300	300	0
6/4/2024 22:27	64202	KINZ_T1	4	7	3	0.33	0.17	-0.16	0	0	0	0	0	0	0	0
6/4/2024 22:28	61701	ELIZ_T1	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
6/4/2024 22:28	43102	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 22:28	43103	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 22:28	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:28	67204	TEHI_T2	0	0	0	0	0	0	-0.11	-0.17	0	0	0	0	0	0
6/4/2024 22:28	56801	BENV_T1	5	7	2	0.66	0.89	0.23	0	0	0	0	0	0	0	0
6/4/2024 22:28	25404	LAHA_T2	8	8	0	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
6/4/2024 22:28	16302	ALPA_T2	0	0	0	0	0	0	1.07	1.01	0	0	0	0	0	0
6/4/2024 22:28	11103	EGYP_T1	0	0	0	0	0	0	0.61	0.57	0	0	0	0	0	0
6/4/2024 22:28	67702	WERN_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
6/4/2024 22:28	67605	WARW_T1	0	0	0	0	0	0	-2.12	-2.18	0	0	0	0	0	0
6/4/2024 22:28	44802	EDAN_T2	0	0	0	0	0	0	-1.86	-1.9	0	0	0	0	0	0
6/4/2024 22:28	40303	TAMA_T3	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
6/4/2024 22:28	61102	BERK_T5	0	0	0	0	0	0	-1.5	0.59	6	4	-2	4800	2400	-2400
6/4/2024 22:28	67502	WEWI_T2	5	6	1	0.12	0.32	0.2	0	0	0	0	0	0	0	0
6/4/2024 22:28	56803	BENV_T1	1	1	0	2	0.4	-1.6	0.02	0.03	0	0	0	0	0	0
6/4/2024 22:28	25402	LAHA_T2	0	1	1	0	0.1	0.1	-0.81	-0.83	0	0	0	0	0	0
6/4/2024 22:28	14203	EALL_T1	0	0	0	0	0	0	0.06	0.11	1	1	0	1200	1200	0
6/4/2024 22:28	63306	GREE_T1	0	0	0	0	0	0	-0.98	-1.04	0	0	0	0	0	0
6/4/2024 22:28	44801	EDAN_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
6/4/2024 22:28	55101	WERT_T1	0	0	0	0	0	0	-3.69	-3.7	6	6	0	4800	4800	0
6/4/2024 22:28	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:28	67602	WARW_T2	0	0	0	0	0	0	0.05	0.05	2	2	0	1500	1500	0
6/4/2024 22:28	43108	SMIL_T2	0	0	0	0	0	0	0.32	0.25	0	0	0	0	0	0
6/4/2024 22:28	60801	BUCK_T1	0	0	0	0	0	0	-0.08	-0.13	0	0	0	0	0	0
6/4/2024 22:28	61703	ELIZ_T1	0	0	0	0	0	0	-2.51	-2.53	2	2	0	2100	2100	0
6/4/2024 22:28	11104	EGYP_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
6/4/2024 22:28	40301	TAMA_T3	2	2	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/4/2024 22:28	11507	FREE_T2	2	2	0	0.4	0.1	-0.3	1.06	1.07	1	1	0	600	600	0
6/4/2024 22:28	67503	WEWI_T2	0	0	0	0	0	0	0.57	0.3	0	0	0	0	0	0
6/4/2024 22:28	59101	WALK_T2	0	0	0	0	0	0	0.94	1.05	1	1	0	600	600	0
6/4/2024 22:28	66703	STRA_T1	3	5	2	0.15	0.3	0.15	0.01	-0.09	0	0	0	0	0	0
6/4/2024 22:28	48302	ORWI_T2	2	2	0	0.85	1.05	0.2	-0.42	-0.45	0	0	0	0	0	0
6/4/2024 22:29	57103	SPHI_T2	0	0	0	0	0	0	0.12	0	1	1	0	600	600	0
6/4/2024 22:29	48301	ORWI_T1	2	2	0	4.4	4.5	0.1	0	0	0	0	0	0	0	0
6/4/2024 22:29	57104	SPHI_T2	1	1	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
6/4/2024 22:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:29	66502	SMAN_T2	0	0	0	0	0	0	0.08	0	0	0	0	0	0	0
6/4/2024 22:29	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:29	44601	SALE_T2	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
6/4/2024 22:29	29402	BELT_T1	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
6/4/2024 22:29	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/4/2024 22:29	13503	MCMI_T2	210	0	-210	0.42	0	-0.42	0.18	0.15	0	0	0	0	0	0
6/4/2024 22:29	53501	EVIL_T2	1	2	1	1.3	0.65	-0.65	0	0	0	0	0	0	0	0
6/4/2024 22:29	56801	BENV_T1	5	7	2	0.66	0.89	0.23	-0.53	-0.61	1	1	0	600	600	0
6/4/2024 22:29	45902	AUBU_T1	0	0	0	0	0	0	-0.92	-0.93	1	1	0	600	600	0
6/4/2024 22:29	57106	SPHI_T2	3	3	0	0.83	1.17	0.34	0	0	0	0	0	0	0	0
6/4/2024 22:29	10705	CATA_T2	1	1	0	2.9	0	-2.9	0	0	0	0	0	0	0	0
6/4/2024 22:29	10707	CATA_T2	0	0	0	0	0	0	0.51	0.55	0	0	0	0	0	0
6/4/2024 22:29	40502	CRES_T2	3	11	8	0.13	0.31	0.18	-0.63	-0.68	0	0	0	0	0	0
6/4/2024 22:29	56803	BENV_T1	1	1	0	2	0.4	-1.6	0	0	0	0	0	0	0	0
6/4/2024 22:29	57101	SPHI_T2	0	6	6	0	0.47	0.47	0	0	0	0	0	0	0	0
6/4/2024 22:29	12701	MACU_T1	0	0	0	0	0	0	-0.97	-0.98	1	1	0	1200	1200	0
6/4/2024 22:29	67502	WEWI_T2	5	6	1	0.12	0.32	0.2	0	0	0	0	0	0	0	0
6/4/2024 22:29	53502	EVIL_T2	0	0	0	0	0	0	0.42	0.35	1	1	0	600	600	0
6/4/2024 22:29	67503	WEWI_T2	0	0	0	0	0	0	0.57	0.3	0	0	0	0	0	0
6/4/2024 22:29	12502	MITR_T2	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
6/4/2024 22:29	25603	ARRO_T1	6	26	20	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
6/4/2024 22:29	57401	SPAN_T1	0	0	0	0	0	0	-0.7	-0.77	1	1	0	600	600	0
6/4/2024 22:29	10805	OHHI_T2	1	1	0	8.4	7.9	-0.5	-0.79	-0.91	1	1	0	600	600	0
6/4/2024 22:29	12505	MITR_T2	0	0	0	0	0	0	1.38	1.28	0	0	0	0	0	0
6/4/2024 22:29	25601	ARRO_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
6/4/2024 22:29	61102	BERK_T5	0	0	0	0	0	0	-2.26	0.89	9	6	-3	7200	3600	-3600
6/4/2024 22:29	61701	ELIZ_T1	1	1	0	3.4	3.4	0	0.75	0.51	0	0	0	0	0	0
6/4/2024 22:29	65205	PRIN_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
6/4/2024 22:29	52004	LING_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
6/4/2024 22:30	45501	DERR_T2	0	0	0	0	0	0	0.09	0.17	2	2	0	1800	1800	0
6/4/2024 22:30	59101	WALK_T2	0	0	0	0	0	0	0.94	1.05	1	1	0	600	600	0
6/4/2024 22:30	63304	GREE_T1	0	0	0	0	0	0	-1.29	-0.09	0	0	0	0	0	0
6/4/2024 22:30	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 22:30	63403	HONY_T2	0	0	0	0	0	0	-0.83	-0.7	0	0	0	0	0	0
6/4/2024 22:30	63402	HONY_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/4/2024 22:30	56801	BENV_T1	6	11	5	0.77	1.14	0.37	-1.07	-1.22	2	2	0	1200	1200	0
6/4/2024 22:30	52403	GRPA_T2	1	2	1	0.1	0	-0.1	0.68	0.56	0	0	0	0	0	0
6/4/2024 22:30	11104	EGYP_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
6/4/2024 22:30	14205	EALL_T2	0	0	0	0	0	0	-0.07	-0.14	0	0	0	0	0	0
6/4/2024 22:30	67605	WARW_T1	0	0	0	0	0	0	-1.06	-1.09	0	0	0	0	0	0
6/4/2024 22:30	56803	BENV_T1	1	1	0	2.9	0.4	-2.5	0	0	0	0	0	0	0	0
6/4/2024 22:30	55003	NEWP_T2	0	0	0	0	0	0	0.06	-0.64	0	0	0	0	0	0
6/4/2024 22:30	64101	REFR_T1	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
6/4/2024 22:30	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/4/2024 22:30	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:30	23202	HIRU_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
6/4/2024 22:30	52402	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/4/2024 22:30	53903	HALI_T2	2	2	0	0.9	1.1	0.2	-0.03	-0.05	0	0	0	0	0	0
6/4/2024 22:30	67702	WERN_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
6/4/2024 22:30	65603	QVIL_T2	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
6/4/2024 22:30	45402	WILO_T2	1	29	28	1.4	0.24	-1.16	0.47	-0.54	0	0	0	0	0	0
6/4/2024 22:30	13302	ORVI_T2	0	0	0	0	0	0	0.25	0.33	0	0	0	0	0	0
6/4/2024 22:30	21206	ECAR_T2	1	1	0	7.7	8	0.3	0.26	0.18	0	0	0	0	0	0
6/4/2024 22:30	53902	HALI_T2	1	1	0	4.5	5.2	0.7	0	0	0	0	0	0	0	0
6/4/2024 22:30	65604	QVIL_T2	0	0	0	0	0	0	0.54	0.49	0	0	0	0	0	0
6/4/2024 22:31	43102	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/4/2024 22:31	53601	DALM_T2	1	1	0	0.5	0.3	-0.2	0.26	0.47	0	0	0	0	0	0
6/4/2024 22:31	15703	TANN_T2	1	1	0	5.2	4.9	-0.3	0	0	0	0	0	0	0	0
6/4/2024 22:31	40301	TAMA_T3	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 22:31	44802	EDAN_T2	0	0	0	0	0	0	-1.86	-1.9	0	0	0	0	0	0
6/4/2024 22:31	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/4/2024 22:31	48302	ORWI_T2	2	2	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
6/4/2024 22:31	45902	AUBU_T1	0	0	0	0	0	0	-2.75	-2.8	3	3	0	1800	1800	0
6/4/2024 22:31	61701	ELIZ_T1	1	1	0	2.7	3.5	0.8	0	0	0	0	0	0	0	0
6/4/2024 22:31	57106	SPHI_T2	3	3	0	1.13	1.17	0.04	0	0	0	0	0	0	0	0
6/4/2024 22:31	43302	WATS_T2	4	0	-4	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/4/2024 22:31	52002	LING_T2	0	0	0	0	0	0	0.92	0.87	0	0	0	0	0	0
6/4/2024 22:31	59101	WALK_T2	0	0	0	0	0	0	1.94	1.05	1	1	0	600	600	0
6/4/2024 22:31	15702	TANN_T2	0	0	0	0	0	0	-0.28	-0.34	0	0	0	0	0	0
6/4/2024 22:31	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.1	0	0	0	0	0	0
6/4/2024 22:31	57104	SPHI_T2	1	1	0	1.1	1.1	0	-1.43	-1.47	1	1	0	900	900	0
6/4/2024 22:31	44801	EDAN_T2	1	1	0	1.3	0.3	-1	0	0	0	0	0	0	0	0
6/4/2024 22:31	60803	BUCK_T1	0	0	0	0	0	0	-0.41	-0.4	1	1	0	600	600	0
6/4/2024 22:31	67401	WAKE_T2	10	0	-10	0.12	0	-0.12	0	0	0	0	0	0	0	0
6/4/2024 22:31	52403	GRPA_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 22:31	40302	TAMA_T3	0	0	0	0	0	0	0.29	0.25	0	0	0	0	0	0
6/4/2024 22:31	53501	EVIL_T2	1	2	1	0.5	0.7	0.2	-1.5	-1.49	3	3	0	1800	1800	0
6/4/2024 22:31	56801	BENV_T1	6	11	5	0.77	1.14	0.37	-2.67	-3.06	5	5	0	3000	3000	0
6/4/2024 22:31	47901	HRDG_T1	0	0	0	0	0	0	1.3	1.21	1	1	0	1200	1200	0
6/4/2024 22:31	67402	WAKE_T2	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
6/4/2024 22:31	55002	NEWP_T1	0	0	0	0	0	0	-0.24	-0.3	0	0	0	0	0	0
6/4/2024 22:31	61703	ELIZ_T1	0	0	0	0	0	0	-2.51	-2.53	2	2	0	2100	2100	0
6/4/2024 22:31	56803	BENV_T1	1	1	0	2.9	0.4	-2.5	0	0	0	0	0	0	0	0
6/4/2024 22:31	52402	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/4/2024 22:31	67602	WARW_T2	0	0	0	0	0	0	0.16	0.16	6	6	0	4500	4500	0
6/4/2024 22:31	57101	SPHI_T2	6	6	0	0.37	0.7	0.33	0	0	0	0	0	0	0	0
6/4/2024 22:31	43103	SMIL_T2	0	0	0	0	0	0	-0.66	-0.71	0	0	0	0	0	0
6/4/2024 22:31	63305	GREE_T1	0	0	0	0	0	0	-0.99	-1.05	0	0	0	0	0	0
6/4/2024 22:31	47401	PENS_T1	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
6/4/2024 22:31	52404	GRPA_T2	0	0	0	0	0	0	-0.11	-0.16	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/4/2024 22:31	43301	WATS_T2	0	0	0	0	0	0	0	0	0	1	1	0	900	900
6/4/2024 22:32	28704	HAML_T2	2	1	-1	4.05	0.8	-3.25	0.03	0.04	0	0	0	0	0	0
6/4/2024 22:32	48301	ORWI_T1	2	2	0	4.2	4.7	0.5	0	0	0	0	0	0	0	0
6/4/2024 22:32	64903	MILL_T2	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
6/4/2024 22:32	46001	BERW_T1	0	0	0	0	0	0	0.92	0.88	0	0	0	0	0	0
6/4/2024 22:32	60801	BUCK_T1	0	0	0	0	0	0	-0.08	-0.13	0	0	0	0	0	0
6/4/2024 22:32	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 22:32	13503	MCMI_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
6/4/2024 22:32	64101	REFR_T1	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
6/4/2024 22:32	55002	NEWP_T1	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
6/4/2024 22:32	56803	BENV_T1	1	1	0	2.9	0.4	-2.5	0	0	0	0	0	0	0	0
6/4/2024 22:32	41902	REED_T1	0	0	0	0	0	0	1.24	1.23	0	0	0	0	0	0
6/4/2024 22:32	52404	GRPA_T2	0	0	0	0	0	0	-0.22	-0.32	0	0	0	0	0	0
6/4/2024 22:32	61701	ELIZ_T1	1	1	0	2.7	3.5	0.8	0.75	0.51	0	0	0	0	0	0
6/4/2024 22:32	10801	CHHI_T1	0	0	0	0	0	0	-1.57	-1.61	3	3	0	2100	2100	0
6/4/2024 22:32	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:32	66502	SMAN_T2	0	0	0	0	0	0	0.08	0	0	0	0	0	0	0
6/4/2024 22:32	52403	GRPA_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/4/2024 22:32	16007	DORN_T1	0	0	0	0	0	0	0.94	0.88	0	0	0	0	0	0
6/4/2024 22:32	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/4/2024 22:32	20401	ASHF_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
6/4/2024 22:32	28703	HAML_T2	3	3	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/4/2024 22:32	67103	SPRI_T1	0	0	0	0	0	0	-0.72	-0.76	0	0	0	0	0	0
6/4/2024 22:32	52402	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/4/2024 22:32	56801	BENV_T1	6	11	5	0.77	1.14	0.37	-0.53	-0.61	1	1	0	600	600	0
6/4/2024 22:32	64902	MILL_T2	0	0	0	0	0	0	-0.25	-0.29	1	1	0	900	900	0
6/4/2024 22:32	20403	ASHF_T2	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
6/4/2024 22:33	58003	WCAR_T1	1	1	0	0.8	1.3	0.5	1.71	1.63	0	0	0	0	0	0
6/4/2024 22:33	58001	WCAR_T1	1	2	1	0.1	0.2	0.1	0.97	0.95	0	0	0	0	0	0
6/4/2024 22:33	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:33	59101	WALK_T2	0	0	0	0	0	0	1.88	2.1	2	2	0	1200	1200	0
6/4/2024 22:33	66703	STRA_T1	5	2	-3	0.3	0.15	-0.15	0.01	-0.09	0	0	0	0	0	0
6/4/2024 22:33	46206	DANV_T2	2	2	0	0.65	0.2	-0.45	3.44	3.48	1	1	0	1200	1200	0
6/4/2024 22:33	42902	MIDD_T2	0	0	0	0	0	0	-0.94	-1.03	1	1	0	600	600	0
6/4/2024 22:33	45501	DERR_T2	0	0	0	0	0	0	0.09	0.17	2	2	0	1800	1800	0
6/4/2024 22:33	29402	BELT_T1	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
6/4/2024 22:33	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/4/2024 22:33	54203	PENN_T1	5	5	0	0.7	1	0.3	1.08	0.92	0	0	0	0	0	0
6/4/2024 22:33	43302	WATS_T2	4	0	-4	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/4/2024 22:33	61102	BERK_T5	0	0	0	0	0	0	-0.75	0.3	3	2	-1	2400	1200	-1200
6/4/2024 22:33	66503	SMAN_T2	0	0	0	0	0	0	0.78	0.73	0	0	0	0	0	0
6/4/2024 22:33	67203	TEHI_T1	0	0	0	0	0	0	1.76	1.64	3	3	0	2100	2100	0
6/4/2024 22:33	55101	WERT_T1	0	0	0	0	0	0	-1.85	-1.85	3	3	0	2400	2400	0
6/4/2024 22:33	67401	WAKE_T2	10	0	-10	0.12	0	-0.12	-0.79	-0.82	0	0	0	0	0	0
6/4/2024 22:33	67702	WERN_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
6/4/2024 22:33	49804	UNIV_T1	0	1	1	0	0.1	0.1	0.83	0.75	0	0	0	0	0	0
6/4/2024 22:33	54201	PENN_T1	3	3	0	0.77	1.1	0.33	0	0	0	0	0	0	0	0
6/4/2024 22:33	67605	WARW_T1	0	0	0	0	0	0	-1.06	-1.09	0	0	0	0	0	0
6/4/2024 22:33	56802	BENV_T2	0	1	1	0	0.2	0.2	-1.02	-1.06	0	0	0	0	0	0
6/4/2024 22:33	46001	BERW_T1	0	0	0	0	0	0	1.85	1.76	0	0	0	0	0	0
6/4/2024 22:34	58003	WCAR_T1	1	1	0	0.8	1.3	0.5	0.85	0.81	0	0	0	0	0	0
6/4/2024 22:34	14404	SSLA_T1	1	1	0	5	5	0	0	0	0	0	0	0	0	0
6/4/2024 22:34	61703	ELIZ_T1	0	0	0	0	0	0	-5.03	-5.06	4	4	0	4200	4200	0
6/4/2024 22:34	58001	WCAR_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/4/2024 22:34	43301	WATS_T2	0	0	0	0	0	0	0	0	0	1	1	0	900	900
6/4/2024 22:34	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:34	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:34	40502	CRES_T2	3	13	10	0.1	0.28	0.18	-1.25	-1.36	0	0	0	0	0	0
6/4/2024 22:34	25402	LAHA_T2	1	2	1	0.1	0.1	0	-0.81	-0.83	0	0	0	0	0	0
6/4/2024 22:34	45501	DERR_T2	0	0	0	0	0	0	0.17	0.33	4	4	0	3600	3600	0
6/4/2024 22:34	46506	LOHA_T1	1	0	-1	0.3	0	-0.3	-0.15	-0.19	0	0	0	0	0	0
6/4/2024 22:34	55405	SHER_T1	0	0	0	0	0	0	-0.52	-0.56	0	0	0	0	0	0
6/4/2024 22:34	55101	WERT_T1	0	0	0	0	0	0	-3.69	-3.7	6	6	0	4800	4800	0
6/4/2024 22:34	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.39	2	2	0	1200	1200	0
6/4/2024 22:34	14403	SSLA_T1	0	0	0	0	0	0	1.95	1.68	0	0	0	0	0	0
6/4/2024 22:34	17804	GILB_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
6/4/2024 22:34	43302	WATS_T2	4	0	-4	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/4/2024 22:34	61701	ELIZ_T1	1	1	0	2.7	3.5	0.8	0	0	0	0	0	0	0	0
6/4/2024 22:34	20603	GRWO_T2	17	0	-17	0.19	0	-0.19	-0.5	0.5	1	0	-1	900	0	-900
6/4/2024 22:34	55002	NEWP_T1	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
6/4/2024 22:34	43102	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/4/2024 22:34	42102	FRAI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/4/2024 22:34	53902	HALI_T2	1	1	0	4.5	5.2	0.7	0	0	0	0	0	0	0	0
6/4/2024 22:34	45902	AUBU_T1	0	0	0	0	0	0	-1.83	-1.86	2	2	0	1200	1200	0
6/4/2024 22:34	45802	HEGI_T2	4	32	28	0.15	0.53	0.38	0.94	0.92	0	0	0	0	0	0
6/4/2024 22:34	64101	REFR_T1	0	0	0	0	0	0	0.41	0.35	0	0	0	0	0	0
6/4/2024 22:34	43108	SMIL_T2	0	0	0	0	0	0	0.32	0.25	0	0	0	0	0	0
6/4/2024 22:34	53903	HALI_T2	2	2	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
6/4/2024 22:34	42802	KELI_T1	0	0	0	0	0	0	-0.98	-0.94	0	0	0	0	0	0
6/4/2024 22:34	53901	HALI_T2	0	1	1	0	0.1	0.1	-1.12	-1.17	0	0	0	0	0	0
6/4/2024 22:34	60803	BUCK_T1	0	0	0	0	0	0	-0.41	-0.4	1	1	0	600	600	0
6/4/2024 22:34	67602	WARW_T2	0	0	0	0	0	0	0.16	0.16	6	6	0	4500	4500	0
6/4/2024 22:34	25404	LAHA_T2	8	46	38	0.1	0.1	0	0	0	0	0	0	0	0	0
6/4/2024 22:34	42701	AUGU_T1	59	44	-15	0.65	0.38	-0.27	0	0	0	0	0	0	0	0
6/4/2024 22:34	42201	SHEN_T2	0	0	0	0	0	0	0.21	0.19	1	1	0	600	600	0
6/4/2024 22:34	46504	LOHA_T1	2	2	0	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
6/4/2024 22:34	47401	PENS_T1	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
6/4/2024 22:35	61703	ELIZ_T1	0	0	0	0	0	0	-2.51	-2.53	2	2	0	2100	2100	0
6/4/2024 22:35	40902	JESH_T1	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
6/4/2024 22:35	45601	WOOL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
6/4/2024 22:35	61102	BERK_T5	0	0	0	0	0	0	-0.75	0.3	3	2	-1	2400	1200	-1200
6/4/2024 22:35	44801	EDAN_T2	1	1	0	1.3	0.3	-1	0.69	0.66	0	0	0	0	0	0
6/4/2024 22:35	46504	LOHA_T1	2	2	0	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
6/4/2024 22:35	16302	ALPA_T2	0	0	0	0	0	0	1.07	1.01	0	0	0	0	0	0
6/4/2024 22:35	58402	MORO_T1	0	0	0	0	0	0	-0.84	-0.82	3	3	0	2400	2400	0
6/4/2024 22:35	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.39	2	2	0	1200	1200	0
6/4/2024 22:35	61701	ELIZ_T1	1	1	0	2.7	3.5	0.8	0	0	0	0	0	0	0	0
6/4/2024 22:35	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.1	0	0	0	0	0	0
6/4/2024 22:35	43102	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/4/2024 22:35	43103	SMIL_T2	0	0	0	0	0	0	-1.99	-2.12	0	0	0	0	0	0
6/4/2024 22:35	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:35	40901	JESH_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/4/2024 22:35	10801	CHHI_T1	0	0	0	0	0	0	-3.13	-3.21	6	6	0	4200	4200	0
6/4/2024 22:35	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:35	46506	LOHA_T1	1	0	-1	0.3	0	-0.3	-0.15	-0.19	0	0	0	0	0	0
6/4/2024 22:35	58102	NEKI_T1	1	1	0	0.8	0.9	0.1	-0.55	-0.65	0	0	0	0	0	0
6/4/2024 22:36	12502	MITR_T2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
6/4/2024 22:36	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/4/2024 22:36	55408	SHER_T2	1	1	0	1.5	1.5	0	-0.77	-0.79	1	1	0	1200	1200	0
6/4/2024 22:36	46803	HEPB_T2	2	0	-2	0.2	0	-0.2	0.54	0.53	0	0	0	0	0	0
6/4/2024 22:36	64101	REFR_T1	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
6/4/2024 22:36	56803	BENV_T1	1	1	0	2.9	0.4	-2.5	0	0	0	0	0	0	0	0
6/4/2024 22:36	13503	MCMI_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
6/4/2024 22:36	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.88	1	1	0	900	900	0
6/4/2024 22:36	45702	LIND_T2	1	0	-1	0.2	0	-0.2	-0.31	-0.31	0	0	0	0	0	0
6/4/2024 22:36	44601	SALE_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
6/4/2024 22:36	46801	HEPB_T2	12	2	-10	0.43	0.7	0.27	-0.11	-0.13	0	0	0	0	0	0
6/4/2024 22:36	23403	HONE_T1	0	1	1	0	0.1	0.1	-0.52	-0.54	0	0	0	0	0	0
6/4/2024 22:36	46502	DERR_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
6/4/2024 22:36	67605	WARW_T1	0	0	0	0	0	0	-2.18	-2.25	0	0	0	0	0	0
6/4/2024 22:36	53902	HALI_T2	1	1	0	4.5	5.2	0.7	0	0	0	0	0	0	0	0
6/4/2024 22:36	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:36	56801	BENV_T1	6	11	5	0.77	1.14	0.37	-2.14	-2.45	4	4	0	2400	2400	0
6/4/2024 22:36	20601	GRWO_T2	0	0	0	0	0	0	-0.02	-0.08	0	0	0	0	0	0
6/4/2024 22:36	20603	GRWO_T2	17	0	-17	0.19	0	-0.19	0	0	0	0	0	0	0	0
6/4/2024 22:36	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 22:36	52402	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/4/2024 22:36	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:36	60803	BUCK_T1	0	0	0	0	0	0	-0.4	-0.42	1	1	0	600	600	0
6/4/2024 22:36	53903	HALI_T2	2	2	0	0.9	1.1	0.2	-0.03	-0.05	0	0	0	0	0	0
6/4/2024 22:36	52403	GRPA_T2	1	2	1	0.1	0	-0.1	0.34	0.28	0	0	0	0	0	0
6/4/2024 22:36	12505	MITR_T2	0	0	0	0	0	0	1.28	1.29	0	0	0	0	0	0
6/4/2024 22:36	63302	GREE_T1	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
6/4/2024 22:36	59101	WALK_T2	0	0	0	0	0	0	0.94	1.05	1	1	0	600	600	0
6/4/2024 22:36	46001	BERW_T1	0	0	0	0	0	0	0.88	0.87	0	0	0	0	0	0
6/4/2024 22:37	67402	WAKE_T2	0	0	0	0	0	0	0.44	0.39	0	0	0	0	0	0
6/4/2024 22:37	46203	DANV_T2	0	0	0	0	0	0	-0.92	-0.96	0	0	0	0	0	0
6/4/2024 22:37	26601	BROO_T1	0	0	0	0	0	0	-0.09	-0.11	1	1	0	600	600	0
6/4/2024 22:37	24902	WHHA_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
6/4/2024 22:37	67401	WAKE_T2	10	0	-10	0.12	0	-0.12	0	0	0	0	0	0	0	0
6/4/2024 22:37	56803	BENV_T1	1	1	0	2.9	0.4	-2.5	0	0	0	0	0	0	0	0
6/4/2024 22:37	44802	EDAN_T2	0	0	0	0	0	0	-1.9	-1.92	0	0	0	0	0	0
6/4/2024 22:37	43104	SMIL_T2	0	0	0	0	0	0	-0.61	-0.62	1	1	0	300	300	0
6/4/2024 22:37	47401	PENS_T1	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
6/4/2024 22:37	41902	REED_T1	0	0	0	0	0	0	1.23	1.18	0	0	0	0	0	0
6/4/2024 22:37	43301	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/4/2024 22:37	46206	DANV_T2	2	2	0	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
6/4/2024 22:37	43302	WATS_T2	4	0	-4	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/4/2024 22:37	67602	WARW_T2	0	0	0	0	0	0	0.05	0.04	2	2	0	1500	1500	0
6/4/2024 22:37	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:37	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.88	1	1	0	900	900	0
6/4/2024 22:37	56801	BENV_T1	6	11	5	0.77	1.14	0.37	-0.61	-0.65	1	1	0	600	600	0
6/4/2024 22:37	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:37	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 22:37	44801	EDAN_T2	1	1	0	1.3	0.3	-1	0.66	0.64	0	0	0	0	0	0
6/4/2024 22:37	64101	REFR_T1	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
6/4/2024 22:37	43102	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/4/2024 22:37	45501	DERR_T2	0	0	0	0	0	0	0.17	0.16	2	2	0	1800	1800	0
6/4/2024 22:38	43104	SMIL_T2	0	0	0	0	0	0	-1.22	-1.23	2	2	0	600	600	0
6/4/2024 22:38	56801	BENV_T1	6	11	5	0.77	1.14	0.37	-1.22	-1.31	2	2	0	1200	1200	0
6/4/2024 22:38	41902	REED_T1	0	0	0	0	0	0	1.23	1.18	0	0	0	0	0	0
6/4/2024 22:38	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 22:38	56803	BENV_T1	1	1	0	2.9	0.4	-2.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/4/2024 22:38	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:38	43302	WATS_T2	4	0	-4	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/4/2024 22:38	55101	WERT_T1	0	0	0	0	0	0	-1.85	-1.89	3	3	0	2400	2400	0
6/4/2024 22:38	43102	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/4/2024 22:38	40101	HUNT_T2	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
6/4/2024 22:38	44301	BEAV_T2	2	1	-1	0.5	0.2	-0.3	0.82	0.88	1	1	0	600	600	0
6/4/2024 22:38	58401	MORO_T1	0	0	0	0	0	0	-1.39	-1.43	2	2	0	1200	1200	0
6/4/2024 22:38	63304	GREE_T1	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
6/4/2024 22:38	46001	BERW_T1	0	0	0	0	0	0	0.88	0.87	0	0	0	0	0	0
6/4/2024 22:38	43301	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/4/2024 22:39	42102	FRAI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/4/2024 22:39	46504	LOHA_T1	2	2	0	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
6/4/2024 22:39	56803	BENV_T1	1	1	0	2.9	0.4	-2.5	0	0	0	0	0	0	0	0
6/4/2024 22:39	43104	SMIL_T2	0	0	0	0	0	0	-0.61	-0.62	1	1	0	300	300	0
6/4/2024 22:39	46506	LOHA_T1	1	0	-1	0.3	0	-0.3	-0.19	-0.2	0	0	0	0	0	0
6/4/2024 22:39	43102	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/4/2024 22:39	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:39	43108	SMIL_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
6/4/2024 22:39	43103	SMIL_T2	0	0	0	0	0	0	-1.41	-1.45	0	0	0	0	0	0
6/4/2024 22:39	43302	WATS_T2	4	0	-4	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/4/2024 22:39	45501	DERR_T2	0	0	0	0	0	0	0.17	0.16	2	2	0	1800	1800	0
6/4/2024 22:39	67201	TEHI_T1	0	0	0	0	0	0	-0.04	-0.4	0	0	0	0	0	0
6/4/2024 22:39	57401	SPAN_T1	0	0	0	0	0	0	-0.77	-0.8	1	1	0	600	600	0
6/4/2024 22:39	52002	LING_T2	0	0	0	0	0	0	0.44	0.34	0	0	0	0	0	0
6/4/2024 22:39	66703	STRA_T1	5	2	-3	0.3	0.15	-0.15	-0.09	-0.09	0	0	0	0	0	0
6/4/2024 22:39	46206	DANV_T2	2	2	0	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
6/4/2024 22:39	56801	BENV_T1	6	11	5	0.77	1.14	0.37	-0.61	-0.65	1	1	0	600	600	0
6/4/2024 22:39	46203	DANV_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
6/4/2024 22:40	43301	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/4/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
6/4/2024 22:40	42701	AUGU_T1	59	44	-15	0.65	0.38	-0.27	0	0	0	0	0	0	0	0
6/4/2024 22:40	46506	LOHA_T1	1	0	-1	0.3	0	-0.3	-0.19	-0.2	0	0	0	0	0	0
6/4/2024 22:40	46206	DANV_T2	2	2	0	0.65	0.2	-0.45	3.48	3.47	1	1	0	1200	1200	0
6/4/2024 22:40	42903	MIDD_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
6/4/2024 22:40	40101	HUNT_T2	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
6/4/2024 22:40	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:40	42201	SHEN_T2	0	0	0	0	0	0	0.19	0.17	1	1	0	600	600	0
6/4/2024 22:40	52402	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/4/2024 22:40	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/4/2024 22:40	46504	LOHA_T1	2	2	0	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
6/4/2024 22:40	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:40	52403	GRPA_T2	1	2	1	0.1	0	-0.1	0.28	0.27	0	0	0	0	0	0
6/4/2024 22:40	43302	WATS_T2	4	0	-4	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/4/2024 22:41	67805	WLAN_T1	31	0	-31	0.13	0	-0.13	-1.17	-1.19	0	0	0	0	0	0
6/4/2024 22:41	43302	WATS_T2	4	0	-4	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/4/2024 22:41	67602	WARW_T2	0	0	0	0	0	0	0.05	0.04	2	2	0	1500	1500	0
6/4/2024 22:41	42701	AUGU_T1	59	44	-15	0.65	0.38	-0.27	0	0	0	0	0	0	0	0
6/4/2024 22:41	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:41	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 22:41	53902	HALI_T2	1	1	0	4.5	5.2	0.7	0	0	0	0	0	0	0	0
6/4/2024 22:41	53903	HALI_T2	2	2	0	0.9	1.1	0.2	-0.05	-0.05	0	0	0	0	0	0
6/4/2024 22:42	44801	EDAN_T2	1	1	0	1.3	0.3	-1	0	0	0	0	0	0	0	0
6/4/2024 22:42	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 22:42	53501	EVIL_T2	1	2	1	0.5	0.7	0.2	-0.5	-0.53	1	1	0	600	600	0
6/4/2024 22:42	43302	WATS_T2	4	0	-4	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/4/2024 22:42	44802	EDAN_T2	0	0	0	0	0	0	-1.9	-1.92	0	0	0	0	0	0
6/4/2024 22:42	21203	ECAR_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
6/4/2024 22:42	43301	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/4/2024 22:43	26603	BROO_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
6/4/2024 22:43	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 22:43	53903	HALI_T2	2	2	0	0.9	1.1	0.2	-0.05	-0.05	0	0	0	0	0	0
6/4/2024 22:43	44201	POIN_T1	31	66	35	0.14	0.17	0.03	-2.05	-2.03	2	2	0	2100	2100	0
6/4/2024 22:43	42802	SELI_T1	0	0	0	0	0	0	-0.94	-0.91	0	0	0	0	0	0
6/4/2024 22:43	53902	HALI_T2	1	1	0	4.5	5.2	0.7	0	0	0	0	0	0	0	0
6/4/2024 22:44	57401	SPAN_T1	0	0	0	0	0	0	-0.77	-0.8	1	1	0	600	600	0
6/4/2024 22:44	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/4/2024 22:44	41902	REED_T1	0	0	0	0	0	0	1.23	1.18	0	0	0	0	0	0
6/4/2024 22:44	44801	EDAN_T2	1	1	0	1.3	0.3	-1	0.66	0.64	0	0	0	0	0	0
6/4/2024 22:48	46506	LOHA_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
6/4/2024 22:48	46504	LOHA_T1	2	2	0	0.35	1.15	0.8	0	0	0	0	0	0	0	0
6/4/2024 22:51	12302	LANA_T2	0	0	0	0	0	0	-2.4	-1.21	3	3	0	2700	2700	0
6/4/2024 22:53	43301	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/4/2024 22:54	24902	WHHA_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
6/4/2024 22:54	12601	MADA_T1	0	0	0	0	0	0	1.09	1.06	0	0	0	0	0	0
6/4/2024 22:56	53501	EVIL_T2	2	1	-1	0.65	0.9	0.25	-0.53	-0.64	1	1	0	600	600	0
6/4/2024 23:03	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.19	0	0	0	0	0	0
6/4/2024 23:03	60501	NMAN_T2	3	3	0	4.2	4.77	0.57	0	0	0	0	0	0	0	0
6/4/2024 23:06	13503	MCMI_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
6/4/2024 23:07	58302	MOTT_T1	0	0	0	0	0	0	-0.25	-0.26	1	1	0	1200	1200	0
6/4/2024 23:14	54201	PENN_T1	3	4	1	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
6/4/2024 23:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 23:14	54203	PENN_T1	5	5	0	1	1.04	0.04	0.47	0.44	0	0	0	0	0	0
6/4/2024 23:22	46802	HEPB_T1	0	1	1	0	0.2	0.2	-0.09	-0.11	0	0	0	0	0	0
6/4/2024 23:23	46206	DANV_T2	2	2	0	0.8	0.6	-0.2	3.31	3.29	1	1	0	1200	1200	0
6/4/2024 23:24	44505	HAMI_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
6/4/2024 23:24	42701	AUGU_T1	15	7	-8	0.67	0.3	-0.37	0	0	0	0	0	0	0	0
6/4/2024 23:24	44502	HAMI_T2	1	1	0	2.6	2.8	0.2	0	0	0	0	0	0	0	0
6/4/2024 23:39	64201	KINZ_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
6/4/2024 23:39	64202	KINZ_T1	2	3	1	0.15	0.47	0.32	1.02	1	0	0	0	0	0	0
6/4/2024 23:39	64204	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
6/4/2024 23:46	43302	WATS_T2	4	2	-2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
6/4/2024 23:46	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2024 23:46	43301	WATS_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/4/2024 23:49	29402	BELT_T1	1	1	0	6.7	6.9	0.2	0	0	0	0	0	0	0	0
6/4/2024 23:56	12301	LANA_T2	0	0	0	0	0	0	-1.01	-1.02	1	1	0	1200	1200	0
6/5/2024 0:07	12701	MACU_T1	0	0	0	0	0	0	-1.09	-1.1	1	1	0	1200	1200	0
6/5/2024 0:07	64101	REFR_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
6/5/2024 0:12	24902	WHHA_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
6/5/2024 0:13	67605	WARW_T1	2	19	17	0.45	0.29	-0.16	0	0	0	0	0	0	0	0
6/5/2024 0:13	67603	WARW_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
6/5/2024 0:18	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.13	0	0	0	0	0	0
6/5/2024 0:47	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/5/2024 0:47	29402	BELT_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
6/5/2024 0:51	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 0:55	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 0:55	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
6/5/2024 0:55	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
6/5/2024 0:57	26603	BROO_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
6/5/2024 0:57	44801	EDAN_T2	1	1	0	1.2	1	-0.2	0.52	0.5	0	0	0	0	0	0
6/5/2024 1:13	24105	EHAZ_T1	5	4	-1	5.2	5.7	0.5	-1.8	-1.81	1	1	0	1200	1200	0
6/5/2024 1:13	24102	EHAZ_T1	2	4	2	1.9	1.1	-0.8	0	0	0	0	0	0	0	0
6/5/2024 1:15	16301	ALPA_T1	1	1	0	0.1	0.2	0.1	-0.22	-0.25	0	0	0	0	0	0
6/5/2024 1:43	57401	SPAN_T1	0	0	0	0	0	0	-1.23	-1.24	1	1	0	600	600	0
6/5/2024 1:44	56801	BENV_T1	14	14	0	1.22	1.42	0.2	-0.38	-0.39	1	1	0	600	600	0
6/5/2024 1:46	67702	WERN_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
6/5/2024 1:47	43106	SMIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/5/2024 1:47	43105	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/5/2024 1:47	43108	SMIL_T2	0	0	0	0	0	0	-1	-1.02	1	1	0	1200	1200	0
6/5/2024 1:47	43102	SMIL_T2	7	9	2	0.71	0.7	-0.01	0	0	0	0	0	0	0	0
6/5/2024 1:47	43103	SMIL_T2	11	15	4	0.31	0.39	0.08	0	0	0	0	0	0	0	0
6/5/2024 1:48	48901	FOSP_T2	0	0	0	0	0	0	-0.43	-0.43	1	1	0	600	600	0
6/5/2024 1:52	16103	BING_T2	0	0	0	0	0	0	-1.45	-1.45	1	1	0	900	900	0
6/5/2024 1:53	47901	HRDG_T1	0	0	0	0	0	0	1.11	1.05	1	1	0	1200	1200	0
6/5/2024 1:55	59101	WAUK_T2	0	0	0	0	0	0	1.46	1.28	0	0	0	0	0	0
6/5/2024 2:04	45501	DERR_T2	1	1	0	0.1	0.2	0.1	-0.01	-0.04	2	2	0	1800	1800	0
6/5/2024 2:05	65901	SAKR_T2	1	1	0	8.8	8.8	0	-0.99	-0.94	0	1	1	0	900	900
6/5/2024 2:27	64101	REFR_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
6/5/2024 2:43	52002	LING_T2	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
6/5/2024 2:50	44301	BEAV_T2	0	0	0	0	0	0	0.15	0.14	1	1	0	600	600	0
6/5/2024 2:56	64202	KINZ_T1	3	3	0	0.5	0.53	0.03	0	0	0	0	0	0	0	0
6/5/2024 2:56	64203	KINZ_T1	0	0	0	0	0	0	-0.41	-0.41	1	1	0	600	600	0
6/5/2024 2:56	64201	KINZ_T1	6	4	-2	0.33	0.45	0.12	0	0	0	0	0	0	0	0
6/5/2024 2:56	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
6/5/2024 3:00	67605	WARW_T1	14	18	4	0.57	0.61	0.04	-1.13	-1.14	0	0	0	0	0	0
6/5/2024 3:02	65501	MOJO_T1	0	0	0	0	0	0	-2.16	-2.16	2	2	0	1800	1800	0
6/5/2024 3:13	13503	MCMI_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
6/5/2024 3:13	29402	BELT_T1	1	1	0	7.3	7.3	0	0	0	0	0	0	0	0	0
6/5/2024 3:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/5/2024 3:16	52002	LING_T2	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
6/5/2024 3:22	52002	LING_T2	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
6/5/2024 3:41	44505	HAMI_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
6/5/2024 3:41	44502	HAMI_T2	1	1	0	3.4	3.3	-0.1	0	0	0	0	0	0	0	0
6/5/2024 3:50	46206	DANV_T2	2	2	0	0.6	0.35	-0.25	3.27	3.25	1	1	0	1200	1200	0
6/5/2024 5:04	10805	CHHI_T2	1	1	0	9	9	0	-0.51	-0.46	0	0	0	0	0	0
6/5/2024 5:32	67702	WERN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
6/5/2024 5:50	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
6/5/2024 5:50	15703	TANN_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
6/5/2024 5:56	29402	BELT_T1	1	1	0	6.9	7.2	0.3	0	0	0	0	0	0	0	0
6/5/2024 5:56	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/5/2024 6:13	43103	SMIL_T2	3	12	9	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
6/5/2024 6:13	43104	SMIL_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	300	300	0
6/5/2024 6:26	42201	SHEN_T2	0	0	0	0	0	0	-0.01	0.01	1	1	0	600	600	0
6/5/2024 6:45	17805	GILB_T2	0	0	0	0	0	0	-0.06	0.02	0	0	0	0	0	0
6/5/2024 6:45	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/5/2024 6:45	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
6/5/2024 6:47	53803	MBRG_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
6/5/2024 6:52	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/5/2024 6:52	29402	BELT_T1	1	1	0	7.4	8	0.6	0	0	0	0	0	0	0	0
6/5/2024 7:01	17805	GILB_T2	0	0	0	0	0	0	0.02	0.1	0	0	0	0	0	0
6/5/2024 7:06	20401	ASHF_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/5/2024 7:06	20403	ASHF_T2	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
6/5/2024 7:08	13201	PALM_T1	0	0	0	0	0	0	-1.63	-1.63	1	1	0	1200	1200	0
6/5/2024 7:23	45501	DERR_T2	3	3	0	0.63	0.43	-0.2	0.84	0.86	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/5/2024 7:34	43103	SMIL_T2	15	9	-6	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
6/5/2024 7:34	43104	SMIL_T2	0	0	0	0	0	0	-0.74	-0.73	1	1	0	300	300	0
6/5/2024 7:34	43102	SMIL_T2	6	4	-2	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
6/5/2024 7:38	67503	WEWI_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
6/5/2024 7:41	57101	SPHI_T2	6	6	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/5/2024 7:41	57103	SPHI_T2	0	0	0	0	0	0	-0.24	-0.23	1	1	0	600	600	0
6/5/2024 7:41	57104	SPHI_T2	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
6/5/2024 7:41	57106	SPHI_T2	3	3	0	0.7	0.77	0.07	0	0	0	0	0	0	0	0
6/5/2024 7:43	21203	ECAR_T1	0	0	0	0	0	0	0.71	0.37	0	0	0	0	0	0
6/5/2024 7:43	40802	EXCH_T2	0	0	0	0	0	0	-0.38	-0.77	0	0	0	0	0	0
6/5/2024 7:44	24702	FLND_T2	0	0	0	0	0	0	0.2	0.31	1	1	0	1200	1200	0
6/5/2024 7:45	15703	TANN_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
6/5/2024 7:45	40802	EXCH_T2	0	0	0	0	0	0	-0.19	-0.38	0	0	0	0	0	0
6/5/2024 7:45	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
6/5/2024 7:46	14201	EALL_T1	0	0	0	0	0	0	0.71	0.73	0	0	0	0	0	0
6/5/2024 7:46	62102	ELAN_T1	0	0	0	0	0	0	0.92	0.78	0	0	0	0	0	0
6/5/2024 7:46	45501	DERR_T2	3	1	-2	0.5	0.6	0.1	0.86	0.83	2	2	0	1800	1800	0
6/5/2024 7:48	12701	MACU_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
6/5/2024 7:50	24204	PROV_T3	1	1	0	5.9	6.2	0.3	0	0	0	0	0	0	0	0
6/5/2024 7:50	25503	MADI_T1	111	73	-38	0.32	0.2	-0.12	-0.87	-0.86	0	0	0	0	0	0
6/5/2024 7:50	24201	PROV_T3	1	1	0	6.2	6.1	-0.1	-1.17	-1.16	1	1	0	1200	1200	0
6/5/2024 7:54	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/5/2024 7:54	29402	BELT_T1	1	1	0	8.3	8.2	-0.1	0	0	0	0	0	0	0	0
6/5/2024 7:54	61102	BERK_T5	0	0	0	0	0	0	-0.6	-0.64	2	2	0	1200	1200	0
6/5/2024 7:56	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/5/2024 7:56	29402	BELT_T1	1	1	0	8.3	8.2	-0.1	0	0	0	0	0	0	0	0
6/5/2024 7:57	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/5/2024 7:57	29402	BELT_T1	1	1	0	8.3	8.2	-0.1	0	0	0	0	0	0	0	0
6/5/2024 7:57	45501	DERR_T2	3	1	-2	0.5	0.6	0.1	0.83	0.78	2	2	0	1800	1800	0
6/5/2024 8:01	46506	LOHA_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/5/2024 8:01	46502	LOHA_T1	0	0	0	0	0	0	0.13	0.21	1	1	0	1200	1200	0
6/5/2024 8:01	46504	LOHA_T1	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
6/5/2024 8:07	29401	BELT_T1	0	46	46	0	0.18	0.18	0	0	1	1	0	900	900	0
6/5/2024 8:07	29402	BELT_T1	1	1	0	8.2	8.6	0.4	0	0	0	0	0	0	0	0
6/5/2024 8:07	15703	TANN_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
6/5/2024 8:07	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.34	0	0	0	0	0	0
6/5/2024 8:09	29402	BELT_T1	1	1	0	8.2	8.6	0.4	0	0	0	0	0	0	0	0
6/5/2024 8:09	29401	BELT_T1	0	46	46	0	0.18	0.18	0	0	1	1	0	900	900	0
6/5/2024 8:10	49802	UNIV_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
6/5/2024 8:12	26603	BROO_T1	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
6/5/2024 8:13	26603	BROO_T1	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
6/5/2024 8:14	50105	HARR_T3	6	6	0	5.83	5.67	-0.16	0	0	0	0	0	0	0	0
6/5/2024 8:14	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 8:14	50107	HARR_T3	1	1	0	6.6	6.6	0	0.69	0.7	0	0	0	0	0	0
6/5/2024 8:21	15203	SFAR_T2	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
6/5/2024 8:23	29401	BELT_T1	0	47	47	0	0.19	0.19	0	0	1	1	0	900	900	0
6/5/2024 8:23	55102	WERT_T2	0	1	1	0	0	0	-0.66	-0.67	2	2	0	1200	1200	0
6/5/2024 8:23	29402	BELT_T1	1	1	0	8	8.6	0.6	0	0	0	0	0	0	0	0
6/5/2024 8:24	55102	WERT_T2	0	1	1	0	0	0	-0.66	-0.67	2	2	0	1200	1200	0
6/5/2024 8:25	20401	ASHF_T2	2	2	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/5/2024 8:25	20403	ASHF_T2	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
6/5/2024 8:27	15203	SFAR_T2	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
6/5/2024 8:28	62607	ENGL_T1	0	0	0	0	0	0	-0.86	-0.81	1	1	0	300	300	0
6/5/2024 8:32	64701	LITI_T1	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
6/5/2024 8:32	56801	BENV_T1	14	10	-4	1.12	0.8	-0.32	-0.64	-0.08	2	1	-1	1200	600	-600
6/5/2024 8:34	15204	SFAR_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
6/5/2024 8:39	29401	BELT_T1	46	42	-4	0.18	0.19	0.01	0	0	1	1	0	900	900	0
6/5/2024 8:39	29402	BELT_T1	1	1	0	8.6	8.5	-0.1	0	0	0	0	0	0	0	0
6/5/2024 8:39	15204	SFAR_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
6/5/2024 8:40	62607	ENGL_T1	0	0	0	0	0	0	-0.81	-0.76	1	1	0	300	300	0
6/5/2024 8:48	17002	RIRO_T2	7	2	-5	0.11	0.1	-0.01	0.67	0.7	0	0	0	0	0	0
6/5/2024 8:48	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 8:51	67702	WERN_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
6/5/2024 8:53	67702	WERN_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
6/5/2024 9:06	67703	WERN_T2	0	0	0	0	0	0	0.03	0.07	1	1	0	900	900	0
6/5/2024 9:07	24902	WHHA_T1	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
6/5/2024 9:09	67703	WERN_T2	0	0	0	0	0	0	0.03	0.07	1	1	0	900	900	0
6/5/2024 9:10	67703	WERN_T2	0	0	0	0	0	0	0.03	0.07	1	1	0	900	900	0
6/5/2024 9:19	13501	MCMI_T1	0	0	0	0	0	0	0.07	0.14	0	0	0	0	0	0
6/5/2024 9:25	67703	WERN_T2	0	0	0	0	0	0	0.07	0.11	1	1	0	900	900	0
6/5/2024 9:25	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 9:35	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.83	0	0	0	0	0	0
6/5/2024 9:36	67505	WEWI_T1	0	0	0	0	0	0	0.14	0.22	1	1	0	900	900	0
6/5/2024 9:37	67505	WEWI_T1	0	0	0	0	0	0	0.14	0.22	1	1	0	900	900	0
6/5/2024 9:38	29402	BELT_T1	1	1	0	8.5	8.4	-0.1	0	0	0	0	0	0	0	0
6/5/2024 9:38	29401	BELT_T1	73	56	-17	0.28	0.22	-0.06	0	0	3	3	0	2700	2700	0
6/5/2024 9:41	29401	BELT_T1	73	56	-17	0.28	0.22	-0.06	0	0	1	1	0	900	900	0
6/5/2024 9:41	29402	BELT_T1	1	1	0	8.5	8.4	-0.1	0	0	0	0	0	0	0	0
6/5/2024 9:42	23901	ERMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 9:42	52402	GRPA_T2	1	0	-1	0.1	0	-0.1	-0.78	-0.77	0	0	0	0	0	0
6/5/2024 9:45	52402	GRPA_T2	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
6/5/2024 9:45	13501	MCMI_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
6/5/2024 9:48	47001	HUGH_T2	0	0	0	0	0	0	-0.48	-0.53	0	0	0	0	0	0
6/5/2024 9:49	13501	MCMI_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
6/5/2024 9:50	67804	WLAN_T1	0	0	0	0	0	0	-0.9	-0.87	0	0	0	0	0	0
6/5/2024 9:52	47001	HUGH_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
6/5/2024 9:52	29402	BELT_T1	1	1	0	8.4	8.1	-0.3	0	0	0	0	0	0	0	0
6/5/2024 9:52	67804	WLAN_T1	0	0	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0
6/5/2024 9:52	29401	BELT_T1	55	44	-11	0.21	0.21	0	0	0	1	1	0	900	900	0
6/5/2024 10:00	67502	WEWI_T2	0	0	0	0	0	0	0.07	0.1	0	0	0	0	0	0
6/5/2024 10:00	59101	WALK_T2	0	0	0	0	0	0	2.32	1.78	0	1	1	0	600	600
6/5/2024 10:00	67804	WLAN_T1	0	0	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0
6/5/2024 10:00	40505	CRES_T1	3	3	0	4.13	4.6	0.47	0.55	0.56	0	0	0	0	0	0
6/5/2024 10:00	58001	WCAR_T1	4	4	0	0.85	0.83	-0.02	1.05	1.06	0	0	0	0	0	0
6/5/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	-0.51	-0.48	1	1	0	600	600	0
6/5/2024 10:00	58003	WCAR_T1	4	5	1	0.48	0.48	0	0	0	0	0	0	0	0	0
6/5/2024 10:00	17002	RIRO_T2	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
6/5/2024 10:00	43201	MVIL_T2	0	0	0	0	0	0	-1.23	-1.23	0	0	0	0	0	0
6/5/2024 10:03	40602	PIGR_T1	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/5/2024 10:03	40601	PIGR_T1	0	0	0	0	0	0	0.12	0.18	0	0	0	0	0	0
6/5/2024 10:06	40601	PIGR_T1	0	0	0	0	0	0	0.12	0.18	0	0	0	0	0	0
6/5/2024 10:06	40602	PIGR_T1	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/5/2024 10:07	67703	WERN_T2	0	0	0	0	0	0	0.11	0.12	1	1	0	900	900	0
6/5/2024 10:07	67503	WEWI_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
6/5/2024 10:08	26603	BROO_T1	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
6/5/2024 10:08	45501	DERR_T2	2	1	-1	0.3	0.4	0.1	0.81	1	2	2	0	1800	1800	0
6/5/2024 10:08	67804	WLAN_T1	0	0	0	0	0	0	0.85	0.83	0	0	0	0	0	0
6/5/2024 10:09	45501	DERR_T2	2	1	-1	0.3	0.4	0.1	0.81	1	2	2	0	1800	1800	0
6/5/2024 10:09	67703	WERN_T2	0	0	0	0	0	0	0.11	0.12	1	1	0	900	900	0
6/5/2024 10:10	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 10:10	67702	WERN_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
6/5/2024 10:10	20403	ASHF_T2	0	0	0	0	0	0	0.54	0.73	0	0	0	0	0	0
6/5/2024 10:10	67703	WERN_T2	0	0	0	0	0	0	0.11	0.12	1	1	0	900	900	0
6/5/2024 10:12	26603	BROO_T1	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
6/5/2024 10:13	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 10:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 10:16	65001	NEFF_T2	0	0	0	0	0	0	0.05	0.04	1	1	0	1200	1200	0
6/5/2024 10:19	64101	REFR_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
6/5/2024 10:20	67503	WEWI_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
6/5/2024 10:21	64101	REFR_T1	0	0	0	0	0	0	0.03	0.13	0	0	0	0	0	0
6/5/2024 10:22	58001	WCAR_T1	4	4	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
6/5/2024 10:22	58003	WCAR_T1	1	5	4	1.6	0.48	-1.12	0.39	0.4	1	1	0	600	600	0
6/5/2024 10:22	67603	WARW_T1	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
6/5/2024 10:23	67503	WEWI_T2	0	0	0	0	0	0	0.21	0.48	0	0	0	0	0	0
6/5/2024 10:24	10801	CHHI_T1	0	0	0	0	0	0	-0.93	-0.87	2	2	0	1500	1500	0
6/5/2024 10:26	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.75	0	0	0	0	0	0
6/5/2024 10:26	40802	EXCH_T2	0	0	0	0	0	0	-0.19	-0.14	0	0	0	0	0	0
6/5/2024 10:26	40801	EXCH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 10:27	40802	EXCH_T2	0	0	0	0	0	0	-0.19	-0.14	0	0	0	0	0	0
6/5/2024 10:27	40801	EXCH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 10:27	63501	HEID_TBK1-2	0	1	1	0	0.2	0.2	0.36	0.44	1	1	0	900	900	0
6/5/2024 10:30	20603	GRWO_T2	0	0	0	0	0	0	-0.4	-0.41	1	1	0	900	900	0
6/5/2024 10:32	41902	REED_T1	0	0	0	0	0	0	0.97	0.97	2	2	0	1800	1800	0
6/5/2024 10:32	55001	NEWP_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
6/5/2024 10:32	55002	NEWP_T1	5	5	0	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
6/5/2024 10:33	13901	SEID_T1	0	0	0	0	0	0	-0.77	-0.66	1	1	0	1200	1200	0
6/5/2024 10:35	66504	SMAN_T2	0	0	0	0	0	0	-1.73	-1.72	2	2	0	2400	2400	0
6/5/2024 10:36	43301	WATS_T2	0	0	0	0	0	0	-1.29	-1.25	3	3	0	2700	2700	0
6/5/2024 10:38	66504	SMAN_T2	0	0	0	0	0	0	-0.86	-0.77	1	1	0	1200	1200	0
6/5/2024 10:39	43301	WATS_T2	0	0	0	0	0	0	-0.86	-0.83	2	2	0	1800	1800	0
6/5/2024 10:41	21203	ECAR_T1	2	1	-1	0.45	0.2	-0.25	-0.02	-0.03	0	0	0	0	0	0
6/5/2024 10:44	40101	HUNT_T2	4	2	-2	0.5	0.1	-0.4	-0.25	-0.25	0	0	0	0	0	0
6/5/2024 10:45	23202	HIRU_T2	0	4	4	0	0.18	0.18	0.1	0.1	0	0	0	0	0	0
6/5/2024 10:45	23201	HIRU_T2	4	5	1	0.1	0.14	0.04	0	0	0	0	0	0	0	0
6/5/2024 10:45	45601	WOOL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
6/5/2024 10:45	23203	HIRU_T2	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
6/5/2024 10:46	23201	HIRU_T2	4	5	1	0.1	0.14	0.04	0	0	0	0	0	0	0	0
6/5/2024 10:46	23202	HIRU_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
6/5/2024 10:46	23203	HIRU_T2	0	5	5	0	0.16	0.16	0.14	0.13	0	0	0	0	0	0
6/5/2024 10:50	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.75	-0.73	0	0	0	0	0	0
6/5/2024 10:50	66302	MCGO_T2	4	2	-2	0.38	0.3	-0.08	-1.15	-0.96	1	1	0	600	600	0
6/5/2024 10:52	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 10:52	29401	BELT_T1	25	21	-4	0.16	0.16	0	0	0	3	3	0	2700	2700	0
6/5/2024 10:52	15702	TANN_T2	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
6/5/2024 10:52	15703	TANN_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
6/5/2024 10:52	43402	BENT_T1	3	2	-1	0.5	0.15	-0.35	-0.56	-0.56	1	1	0	900	900	0
6/5/2024 10:52	29402	BELT_T1	1	1	0	8	8	0	0	0	0	0	0	0	0	0
6/5/2024 10:54	67605	WARW_T1	0	1	1	0	0.2	0.2	-1.46	-1.41	0	0	0	0	0	0
6/5/2024 10:54	15702	TANN_T2	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
6/5/2024 10:54	15703	TANN_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
6/5/2024 10:57	43402	BENT_T1	3	2	-1	0.5	0.15	-0.35	-0.56	-0.56	1	1	0	900	900	0
6/5/2024 10:57	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 11:07	67702	WERN_T2	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/5/2024 11:07	67703	WERN_T2	0	0	0	0	0	0	0.2	0.23	1	1	0	900	900	0
6/5/2024 11:09	58003	WCAR_T1	3	2	-1	0.7	0.95	0.25	0.4	0.39	1	1	0	600	600	0
6/5/2024 11:09	58001	WCAR_T1	4	4	0	0.95	0.8	-0.15	0	0	0	0	0	0	0	0
6/5/2024 11:10	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/5/2024 11:10	67703	WERN_T2	0	0	0	0	0	0	0.2	0.23	1	1	0	900	900	0
6/5/2024 11:10	45902	AUBU_T1	0	0	0	0	0	0	-0.3	-0.37	1	1	0	600	600	0
6/5/2024 11:10	67702	WERN_T2	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
6/5/2024 11:10	40201	BEGA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/5/2024 11:10	20403	ASHF_T2	0	0	0	0	0	0	0.81	0.85	0	0	0	0	0	0
6/5/2024 11:10	20401	ASHF_T2	2	4	2	0.55	0.7	0.15	0	0	0	0	0	0	0	0
6/5/2024 11:12	26601	BROO_T1	0	0	0	0	0	0	-0.08	-0.07	1	1	0	600	600	0
6/5/2024 11:12	26603	BROO_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/5/2024 11:12	40201	BEGA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/5/2024 11:13	24701	FLND_T2	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
6/5/2024 11:13	10801	CHHI_T1	0	0	0	0	0	0	-0.77	-0.85	2	2	0	1500	1500	0
6/5/2024 11:13	24702	FLND_T2	1	2	1	0.1	0.7	0.6	0	0	0	0	0	0	0	0
6/5/2024 11:14	26703	HEML_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	600	600	0
6/5/2024 11:15	22602	KIMB_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
6/5/2024 11:15	22601	KIMB_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/5/2024 11:17	40101	HUNT_T2	2	3	1	0.5	0	-0.5	-0.24	-0.22	0	0	0	0	0	0
6/5/2024 11:20	67203	TEHI_T1	1	1	0	0.7	0	-0.7	2.11	1.95	4	4	0	3000	3000	0
6/5/2024 11:21	55405	SHER_T1	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
6/5/2024 11:24	67703	WERN_T2	0	0	0	0	0	0	0.23	0.27	1	1	0	900	900	0
6/5/2024 11:26	29402	BELT_T1	1	2	1	8	4.05	-3.95	0	0	0	0	0	0	0	0
6/5/2024 11:26	29401	BELT_T1	14	5	-9	0.18	0.14	-0.04	0	0	0	0	0	0	0	0
6/5/2024 11:28	53501	EVIL_T2	2	3	1	0.85	0.75	-0.1	-2.57	-2.72	8	8	0	5400	5400	0
6/5/2024 11:28	53502	EVIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/5/2024 11:29	24702	FLND_T2	2	2	0	0.7	0.4	-0.3	0.48	0.38	1	1	0	1200	1200	0
6/5/2024 11:31	41801	GOCI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/5/2024 11:31	45802	HEGI_T2	4	1	-3	1.3	0	-1.3	1.01	0.95	4	4	0	2400	2400	0
6/5/2024 11:35	58003	WCAR_T1	1	1	0	1.6	1.5	-0.1	0.39	0.38	1	1	0	600	600	0
6/5/2024 11:35	58001	WCAR_T1	4	4	0	0.8	0.78	-0.02	0	0	0	0	0	0	0	0
6/5/2024 11:36	58003	WCAR_T1	1	1	0	1.6	1.5	-0.1	0.39	0.38	1	1	0	600	600	0
6/5/2024 11:36	58001	WCAR_T1	4	4	0	0.8	0.78	-0.02	0	0	0	0	0	0	0	0
6/5/2024 11:36	67201	TEHI_T1	0	0	0	0	0	0	0.25	0.35	2	1	-1	1500	600	-900
6/5/2024 11:36	67203	TEHI_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
6/5/2024 11:36	67702	WERN_T2	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
6/5/2024 11:39	29402	BELT_T1	2	4	2	4.05	2.15	-1.9	0	0	0	0	0	0	0	0
6/5/2024 11:39	29401	BELT_T1	5	1	-4	0.12	0.2	0.08	0	0	0	0	0	0	0	0
6/5/2024 11:40	24101	EHAZ_T1	22	20	-2	1.35	0.71	-0.64	0	0	0	0	0	0	0	0
6/5/2024 11:40	24105	EHAZ_T1	4	4	0	5.73	5.8	0.07	0	0	0	0	0	0	0	0
6/5/2024 11:40	24102	EHAZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/5/2024 11:40	24104	EHAZ_T1	0	1	1	0	0.3	0.3	-0.71	-0.66	1	1	0	1200	1200	0
6/5/2024 11:43	63501	HEID_TBK1-2	1	2	1	0.1	0.3	0.2	0.57	0.59	1	1	0	900	900	0
6/5/2024 11:44	12701	MACU_T1	0	0	0	0	0.1	0.1	0.25	0.26	0	0	0	0	0	0
6/5/2024 11:44	53501	EVIL_T2	2	2	0	0.6	0.65	0.05	-1.36	-0.84	4	3	-1	2700	2100	-600
6/5/2024 11:44	26401	INOR_T1	1	1	0	6.6	7.8	1.2	1.54	1.21	0	0	0	0	0	0
6/5/2024 11:46	52002	LING_T2	0	0	0	0	0	0	0.23	0.29	0	0	0	0	0	0
6/5/2024 11:46	58402	MORO_T1	0	0	0	0	0	0	-0.78	-0.81	3	3	0	2400	2400	0
6/5/2024 11:47	58402	MORO_T1	0	0	0	0	0	0	-0.78	-0.81	3	3	0	2400	2400	0
6/5/2024 11:48	12502	MITR_T2	1	1	0	7.5	7.7	0.2	0	0	0	0	0	0	0	0
6/5/2024 11:48	12505	MITR_T2	0	0	0	0	0	0	2.27	2.3	0	0	0	0	0	0
6/5/2024 11:48	12501	MITR_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/5/2024 11:49	54203	PENN_T1	18	18	0	0.51	0.52	0.01	0.7	0.7	0	0	0	0	0	0
6/5/2024 11:49	54201	PENN_T1	9	5	-4	0.63	1.02	0.39	0	0	0	0	0	0	0	0
6/5/2024 11:49	47001	HUGH_T2	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
6/5/2024 11:51	67605	WARW_T1	0	0	0	0	0	0	-0.63	-0.61	0	0	0	0	0	0
6/5/2024 11:51	14801	TREI_T2	0	0	0	0	0	0	0.82	0.84	0	0	0	0	0	0
6/5/2024 11:51	54203	PENN_T1	18	18	0	0.51	0.52	0.01	0.7	0.7	0	0	0	0	0	0
6/5/2024 11:51	54201	PENN_T1	9	5	-4	0.63	1.02	0.39	-0.54	-0.46	0	0	0	0	0	0
6/5/2024 11:52	67603	WARW_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
6/5/2024 11:52	10102	ALLE_T2	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
6/5/2024 11:52	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 11:52	47001	HUGH_T2	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
6/5/2024 11:53	10805	CHHI_T2	4	5	1	2.85	3.37	0.52	-0.5	-0.62	1	1	0	600	600	0
6/5/2024 11:53	10801	CHHI_T1	2	3	1	0.15	0.15	0	-0.86	-0.82	2	2	0	1500	1500	0
6/5/2024 11:53	46004	BERW_T2	0	0	0	0	0	0	0.78	0.73	0	0	0	0	0	0
6/5/2024 11:55	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/5/2024 11:55	10805	CHHI_T2	4	5	1	2.85	3.37	0.52	-0.5	-0.62	1	1	0	600	600	0
6/5/2024 11:55	10102	ALLE_T2	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
6/5/2024 11:57	41801	GOCI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/5/2024 11:59	12703	MACU_T2	0	0	0	0	0	0	-0.53	-0.48	0	0	0	0	0	0
6/5/2024 12:00	42902	MIDD_T2	0	0	0	0	0	0	-0.59	0.12	1	0	-1	600	0	-600
6/5/2024 12:00	22903	HARW_T1	16	22	6	0.33	0.34	0.01	0	0	0	0	0	0	0	0
6/5/2024 12:00	22904	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 12:00	22901	HARW_T1	0	1	1	0	0.1	0.1	-0.35	-0.29	1	1	0	1200	1200	0
6/5/2024 12:00	42903	MIDD_T2	2	2	0	1.05	1.85	0.8	0	0	0	0	0	0	0	0
6/5/2024 12:01	26401	INOR_T1	1	1	0	7.8	8.6	0.8	0	0	0	0	0	0	0	0
6/5/2024 12:01	26402	INOR_T1	0	1	1	0	0.3	0.3	-1.49	-0.9	1	0	-1	600	0	-600
6/5/2024 12:01	12703	MACU_T2	0	0	0	0	0	0	-0.53	-0.48	0	0	0	0	0	0
6/5/2024 12:02	12703	MACU_T2	0	0	0	0	0	0	-0.53	-0.48	0	0	0	0	0	0
6/5/2024 12:03	42902	MIDD_T2	0	0	0	0	0	0	-0.59	0.12	1	0	-1	600	0	-600
6/5/2024 12:03	42903	MIDD_T2	2	2	0	1.05	1.85	0.8	0	0	0	0	0	0	0	0
6/5/2024 12:05	40601	PIGR_T1	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
6/5/2024 12:05	40602	PIGR_T1	1	2	1	0.1	0.2	0.1	-0.77	-0.73	1	1	0	600	600	0
6/5/2024 12:05	42903	MIDD_T2	2	2	0	1.05	1.85	0.8	0	0	0	0	0	0	0	0
6/5/2024 12:05	42902	MIDD_T2	0	0	0	0	0	0	-0.59	0.12	1	0	-1	600	0	-600
6/5/2024 12:06	67002	STHI_T2	0	0	0	0	0	0	1.25	1.27	0	0	0	0	0	0
6/5/2024 12:06	67001	STHI_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
6/5/2024 12:06	64101	REFR_T1	0	1	1	0	0	0	0.29	0.3	0	0	0	0	0	0
6/5/2024 12:08	20401	ASHF_T2	1	4	3	0.6	0.75	0.15	0	0	0	0	0	0	0	0
6/5/2024 12:08	14802	TREI_T2	0	0	0	0	0	0	0.81	0.84	0	0	0	0	0	0
6/5/2024 12:08	20403	ASHF_T2	4	1	-3	0.23	0.3	0.07	0.92	1.01	0	0	0	0	0	0
6/5/2024 12:09	67702	WERN_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
6/5/2024 12:09	10801	CHHI_T1	2	9	7	0.15	0.59	0.44	-0.82	-1.35	2	3	1	1500	2100	600
6/5/2024 12:09	64101	REFR_T1	0	1	1	0	0	0	0.15	0.15	0	0	0	0	0	0
6/5/2024 12:09	24901	WHHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/5/2024 12:09	24902	WHHA_T1	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
6/5/2024 12:10	43301	WATS_T2	1	0	-1	0.2	0	-0.2	-0.34	-0.33	1	1	0	900	900	0
6/5/2024 12:10	45501	DERR_T2	3	3	0	0.57	0.65	0.08	0	0	0	0	0	0	0	0
6/5/2024 12:10	45502	DERR_T2	2	1	-1	0.75	0	-0.75	0.25	0.37	0	0	0	0	0	0
6/5/2024 12:10	45902	AUBU_T1	0	0	0	0	0	0	0.81	0.52	2	2	0	1200	1200	0
6/5/2024 12:10	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 12:11	44301	BEAV_T2	0	1	1	0	0	0	-0.06	0.06	2	2	0	1500	1500	0
6/5/2024 12:12	45801	HEGI_T1	0	0	0	0	0	0	0.29	0.25	1	1	0	900	900	0
6/5/2024 12:13	17805	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 12:13	17804	GILB_T2	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
6/5/2024 12:13	17802	GILB_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
6/5/2024 12:17	54505	ENOL_T2	0	1	1	0	0.2	0.2	-1.12	-1.11	1	1	0	600	600	0
6/5/2024 12:18	67303	WYOM_T2	0	0	0	0	0	0	-0.96	-0.85	0	0	0	0	0	0
6/5/2024 12:21	40601	PIGR_T1	3	0	-3	0.1	0	-0.1	0.28	0.27	0	0	0	0	0	0
6/5/2024 12:21	40602	PIGR_T1	2	1	-1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
6/5/2024 12:21	48302	ORWI_T2	1	0	-1	0.2	0	-0.2	0.33	0.33	0	0	0	0	0	0
6/5/2024 12:24	10205	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 12:24	10105	ALLE_T3	7	12	5	1.03	0.57	-0.46	0	0	0	0	0	0	0	0
6/5/2024 12:25	16101	BING_T2	1	1	0	9.7	9.8	0.1	0	0	0	0	0	0	0	0
6/5/2024 12:25	16103	BING_T2	0	1	1	0	0.3	0.3	-1.6	-1.56	2	2	0	1500	1500	0
6/5/2024 12:27	44505	HAMI_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
6/5/2024 12:27	44502	HAMI_T2	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
6/5/2024 12:29	44505	HAMI_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
6/5/2024 12:29	44502	HAMI_T2	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
6/5/2024 12:30	63302	GREE_T1	0	0	0	0	0	0	0.11	0.25	0	0	0	0	0	0
6/5/2024 12:35	42601	TUSC_T1	7	0	-7	0.19	0	-0.19	0.12	0.08	3	3	0	2400	2400	0
6/5/2024 12:37	67605	WARW_T1	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
6/5/2024 12:39	45501	DERR_T2	3	4	1	0.63	0.85	0.22	1.2	1.18	2	2	0	1800	1800	0
6/5/2024 12:39	10102	ALLE_T2	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
6/5/2024 12:39	61102	BERK_T5	0	0	0	0	0	0	0.02	0.42	6	6	0	3600	3600	0
6/5/2024 12:39	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 12:39	45502	DERR_T2	1	3	2	0.9	0.43	-0.47	0	0	0	0	0	0	0	0
6/5/2024 12:42	45502	DERR_T2	1	3	2	0.9	0.43	-0.47	0	0	0	0	0	0	0	0
6/5/2024 12:42	45501	DERR_T2	3	4	1	0.63	0.85	0.22	1.2	1.18	2	2	0	1800	1800	0
6/5/2024 12:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 12:49	64101	REFR_T1	1	0	-1	2.2	0	-2.2	0.15	0.14	0	0	0	0	0	0
6/5/2024 12:52	43103	SMIL_T2	0	0	0	0	0	0	-0.51	-0.42	0	0	0	0	0	0
6/5/2024 12:54	61102	BERK_T5	0	0	0	0	0	0	0.14	-0.06	2	2	0	1200	1200	0
6/5/2024 12:54	21501	CEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 12:54	21502	CEAV_T2	0	0	0	0	0	0	-1.44	-1.43	1	1	0	1200	1200	0
6/5/2024 12:55	14203	EALL_T1	0	0	0	0	0	0	0.51	0.51	1	1	0	1200	1200	0
6/5/2024 12:55	44801	EDAN_T2	1	1	0	1.4	1.1	-0.3	0.84	0.84	0	0	0	0	0	0
6/5/2024 13:02	65502	MOJO_T2	0	0	0	0	0	0	-1.02	-0.16	1	1	0	900	900	0
6/5/2024 13:02	56801	BENV_T1	4	0	-4	0.35	0	-0.35	-0.24	-0.25	1	1	0	600	600	0
6/5/2024 13:02	56803	BENV_T1	1	2	1	0.2	3.3	3.1	0	0	0	0	0	0	0	0
6/5/2024 13:03	12601	MACA_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/5/2024 13:03	54201	PENN_T1	7	41	34	0.77	0.4	-0.37	-0.49	-0.53	0	0	0	0	0	0
6/5/2024 13:03	54203	PENN_T1	18	19	1	0.45	0.96	0.51	0	0	0	0	0	0	0	0
6/5/2024 13:03	56802	BENV_T2	1	1	0	7.9	0.4	-7.5	-0.5	-0.49	0	0	0	0	0	0
6/5/2024 13:03	12604	MACA_T1	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
6/5/2024 13:05	49804	UNIV_T1	1	0	-1	0.2	0	-0.2	1.88	1.45	0	0	0	0	0	0
6/5/2024 13:05	66302	MCGO_T2	264	252	-12	0.32	0.28	-0.04	-1.46	-1.65	1	1	0	600	600	0
6/5/2024 13:06	44801	EDAN_T2	1	1	0	1.1	1.1	0	0.84	0.84	0	0	0	0	0	0
6/5/2024 13:11	16101	BING_T2	0	1	1	0	0	0	0.79	0.81	0	0	0	0	0	0
6/5/2024 13:13	10805	CHHI_T2	14	9	-5	0.97	0	-0.97	-0.38	-0.65	1	1	0	600	600	0
6/5/2024 13:15	24201	PROV_T3	1	2	1	9.2	9.2	0	-0.73	-0.72	1	1	0	1200	1200	0
6/5/2024 13:15	24204	PROV_T3	1	1	0	7	6.9	-0.1	0	0	0	0	0	0	0	0
6/5/2024 13:18	52502	PROG_T2	0	0	0	0	0	0	-0.38	0.57	1	0	-1	900	0	-900
6/5/2024 13:21	52502	PROG_T2	0	0	0	0	0	0	-0.38	0.57	1	0	-1	900	0	-900
6/5/2024 13:31	58401	MORO_T1	0	0	0	0	0	0	-1.23	-1.23	1	1	0	600	600	0
6/5/2024 13:32	54601	SUMM_T2	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
6/5/2024 13:32	58401	MORO_T1	0	0	0	0	0	0	-1.23	-1.23	1	1	0	600	600	0
6/5/2024 13:32	17802	GILB_T1	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
6/5/2024 13:32	54603	SUMM_T2	0	0	0	0	0	0	-0.58	-0.6	1	1	0	900	900	0
6/5/2024 13:33	56802	BENV_T2	1	1	0	0.4	0.8	0.4	-0.98	-2.35	0	0	0	0	0	0
6/5/2024 13:33	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/5/2024 13:34	56802	BENV_T2	1	1	0	0.4	0.8	0.4	-0.98	-2.35	0	0	0	0	0	0
6/5/2024 13:55	10805	CHHI_T2	1	14	13	9.5	9.8	0.3	-0.71	-0.39	1	1	0	600	600	0
6/5/2024 13:58	43108	SMIL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/5/2024 13:58	43103	SMIL_T2	0	0	0	0	0	0	-0.46	-1.69	0	0	0	0	0	0
6/5/2024 13:58	43102	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/5/2024 14:01	53903	HALI_T2	2	2	0	1.6	1.9	0.3	-0.04	-0.03	0	0	0	0	0	0
6/5/2024 14:01	53901	HALI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/5/2024 14:01	53902	HALI_T2	1	1	0	5	5.6	0.6	0	0	0	0	0	0	0	0
6/5/2024 14:08	67503	WEWI_T2	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
6/5/2024 14:14	52401	GRPA_T2	0	1	1	0	9.5	9.5	0	0	0	0	0	0	0	0
6/5/2024 14:14	52403	GRPA_T2	1	6	5	0.4	0.33	-0.07	0.44	0.45	0	0	0	0	0	0
6/5/2024 14:17	12802	MICK_T1	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
6/5/2024 14:17	12803	MICK_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/5/2024 14:19	12502	MITR_T2	1	5	4	7.6	7.6	0	0	0	0	0	0	0	0	0
6/5/2024 14:19	12505	MITR_T2	0	0	0	0	0	0	2.09	1.14	0	0	0	0	0	0
6/5/2024 14:19	12501	MITR_T2	1	1	0	3.9	2.7	-1.2	0	0	0	0	0	0	0	0
6/5/2024 14:20	60605	NCOL_T2	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
6/5/2024 14:20	40602	PIGR_T1	1	1	0	0.9	0.1	-0.8	-0.51	-1.08	1	1	0	600	600	0
6/5/2024 14:20	58001	WCAR_T1	4	4	0	0.88	0.83	-0.05	0	0	0	0	0	0	0	0
6/5/2024 14:20	56501	ROCK_T2	3	3	0	3.53	2.4	-1.13	-0.82	-0.81	0	0	0	0	0	0
6/5/2024 14:20	58003	WCAR_T1	19	6	-13	0.23	0.68	0.45	0.42	0.44	1	1	0	600	600	0
6/5/2024 14:21	58001	WCAR_T1	4	4	0	0.88	0.83	-0.05	0	0	0	0	0	0	0	0
6/5/2024 14:21	58003	WCAR_T1	19	6	-13	0.23	0.68	0.45	0.42	0.44	1	1	0	600	600	0
6/5/2024 14:21	67402	WAKE_T2	0	0	0	0	0	0	0.87	0.88	1	1	0	600	600	0
6/5/2024 14:22	66505	SMAN_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
6/5/2024 14:22	66504	SMAN_T2	0	1	1	0	0	0	-0.96	-1.09	2	2	0	2400	2400	0
6/5/2024 14:22	24902	WHHA_T1	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
6/5/2024 14:23	66703	STRA_T1	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
6/5/2024 14:24	67402	WAKE_T2	0	0	0	0	0	0	0.87	0.88	1	1	0	600	600	0
6/5/2024 14:24	58001	WCAR_T1	4	4	0	0.88	0.83	-0.05	0	0	0	0	0	0	0	0
6/5/2024 14:24	58003	WCAR_T1	19	6	-13	0.23	0.68	0.45	0.44	0.46	1	1	0	600	600	0
6/5/2024 14:24	43202	MVIL_T2	2	2	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
6/5/2024 14:24	61102	BERK_T5	0	0	0	0	0	0	0.12	0.11	2	2	0	1200	1200	0
6/5/2024 14:24	43201	MVIL_T2	0	0	0	0	0	0	-1.12	-1.13	0	0	0	0	0	0
6/5/2024 14:24	56501	ROCK_T2	3	3	0	3.53	2.4	-1.13	-2.43	-2.39	0	0	0	0	0	0
6/5/2024 14:25	67204	TEHI_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
6/5/2024 14:25	61103	BERK_T5	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
6/5/2024 14:25	55002	NEWP_T1	1	1	0	0.3	0.2	-0.1	-0.25	-0.25	0	0	0	0	0	0
6/5/2024 14:25	67702	WERN_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
6/5/2024 14:25	56802	BENV_T2	1	1	0	0.7	1	0.3	-1.07	-1.08	0	0	0	0	0	0
6/5/2024 14:25	45902	AUBU_T1	0	0	0	0	0	0	-0.52	-0.5	1	1	0	600	600	0
6/5/2024 14:26	10602	BLGL_T2	2	2	0	3.85	7.4	3.55	1.29	1.3	0	0	0	0	0	0
6/5/2024 14:26	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 14:27	56501	ROCK_T2	3	3	0	3.53	2.4	-1.13	-0.81	-0.8	0	0	0	0	0	0
6/5/2024 14:28	61701	ELIZ_T1	1	1	0	2.9	2.8	-0.1	1	1.04	0	0	0	0	0	0
6/5/2024 14:30	61701	ELIZ_T1	1	1	0	2.4	2.9	0.5	1	1.04	0	0	0	0	0	0
6/5/2024 14:32	25503	MADI_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
6/5/2024 14:33	65004	NEFF_T2	0	0	0	0	0	0	-0.64	-0.63	1	1	0	600	600	0
6/5/2024 14:34	13503	MCMI_T2	4	0	-4	0.33	0	-0.33	-0.79	0.13	0	0	0	0	0	0
6/5/2024 14:35	54201	PENN_T1	12	12	0	0.64	0.67	0.03	-0.45	-0.44	0	0	0	0	0	0
6/5/2024 14:35	54203	PENN_T1	18	18	0	0.62	0.78	0.16	0	0	0	0	0	0	0	0
6/5/2024 14:43	51802	EBEN_T2	2	2	0	1	1.15	0.15	0.77	0.75	1	1	0	900	900	0
6/5/2024 14:53	15702	TANN_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
6/5/2024 14:53	15703	TANN_T2	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
6/5/2024 14:56	28805	LAKE_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
6/5/2024 14:57	12301	LANA_T2	0	1	1	0	0.2	0.2	-0.67	-0.64	1	1	0	1200	1200	0
6/5/2024 14:57	12304	LANA_T2	10	10	0	0.36	0.65	0.29	0	0	0	0	0	0	0	0
6/5/2024 14:57	12305	LANA_T2	1	4	3	1	0	-1	0	0	0	0	0	0	0	0
6/5/2024 14:58	63304	GREE_T1	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
6/5/2024 14:58	10801	CHHI_T1	2	4	2	0.25	0.35	0.1	-1.34	-1.32	3	3	0	2100	2100	0
6/5/2024 14:58	10805	CHHI_T2	21	18	-3	0.77	0.48	-0.29	-0.33	-0.25	1	1	0	600	600	0
6/5/2024 15:01	63304	GREE_T1	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
6/5/2024 15:01	45002	LIME_2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
6/5/2024 15:01	45003	LIME_2	1	1	0	3.1	3.1	0	0.55	0.53	0	0	0	0	0	0
6/5/2024 15:01	56803	BENV_T1	1	2	1	0.4	1.3	0.9	0	0	0	0	0	0	0	0
6/5/2024 15:01	56801	BENV_T1	16	17	1	0.77	0.8	0.03	-0.81	-0.82	2	2	0	1200	1200	0
6/5/2024 15:02	52004	LING_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
6/5/2024 15:04	56802	BENV_T2	1	2	1	0.7	0.45	-0.25	-1.09	-1.08	0	0	0	0	0	0
6/5/2024 15:05	56802	BENV_T2	1	2	1	0.7	0.45	-0.25	-1.09	-1.08	0	0	0	0	0	0
6/5/2024 15:07	67702	WERN_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
6/5/2024 15:07	60201	ATGL_T2	0	0	0	0	0	0	0.44	0.47	2	2	0	900	900	0
6/5/2024 15:07	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 15:07	55101	WERT_T1	0	0	0	0	0	0	-1.69	-1.77	4	4	0	3300	3300	0
6/5/2024 15:08	60201	ATGL_T2	0	0	0	0	0	0	0.44	0.47	2	2	0	900	900	0
6/5/2024 15:08	67702	WERN_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
6/5/2024 15:11	60201	ATGL_T2	0	0	0	0	0	0	0.44	0.47	2	2	0	900	900	0
6/5/2024 15:16	61701	ELIZ_T1	1	1	0	3	3.2	0.2	1.02	1.01	0	0	0	0	0	0
6/5/2024 15:17	12402	MILF_T1	17	34	17	0.32	0.31	-0.01	0.76	0.76	1	1	0	1200	1200	0
6/5/2024 15:19	47401	PENS_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
6/5/2024 15:19	47403	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/5/2024 15:21	61701	ELIZ_T1	1	1	0	3	3.2	0.2	1.01	1.06	0	0	0	0	0	0
6/5/2024 15:22	47403	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/5/2024 15:22	47401	PENS_T1	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
6/5/2024 15:25	43102	SMIL_T2	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
6/5/2024 15:25	43103	SMIL_T2	12	15	3	0.4	0.47	0.07	-1.74	-1.73	0	0	0	0	0	0
6/5/2024 15:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 15:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 15:30	17804	GILB_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
6/5/2024 15:33	44201	POIN_T1	0	0	0	0	0	0	-1.83	-1.86	2	2	0	2100	2100	0
6/5/2024 15:33	56501	ROCK_T2	3	0	-3	0.3	0	-0.3	-0.76	-0.74	0	0	0	0	0	0
6/5/2024 15:34	56501	ROCK_T2	3	0	-3	0.3	0	-0.3	-0.76	-0.74	0	0	0	0	0	0
6/5/2024 15:35	44201	POIN_T1	0	0	0	0	0	0	-1.83	-1.86	2	2	0	2100	2100	0
6/5/2024 15:35	66505	SMAN_T2	1	0	-1	1.1	0	-1.1	0.47	0.28	4	4	0	2300	2300	0
6/5/2024 15:35	56501	ROCK_T2	3	0	-3	0.3	0	-0.3	-0.76	-0.74	0	0	0	0	0	0
6/5/2024 15:36	49804	UNIV_T1	0	1	1	0	0.2	0.2	1.74	1.2	0	0	0	0	0	0
6/5/2024 15:36	64201	KINZ_T1	0	0	0	0	0	0	-0.19	-0.52	4	4	0	2100	2100	0
6/5/2024 15:36	64203	KINZ_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/5/2024 15:36	44201	POIN_T1	0	0	0	0	0	0	-1.86	-1.88	2	2	0	2100	2100	0
6/5/2024 15:36	64202	KINZ_T1	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
6/5/2024 15:36	64204	KINZ_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
6/5/2024 15:38	66505	SMAN_T2	1	0	-1	1.1	0	-1.1	0.28	0.31	4	4	0	2300	2300	0
6/5/2024 15:39	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 15:42	24102	EHAZ_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
6/5/2024 15:42	24105	EHAZ_T1	4	4	0	5.7	5.65	-0.05	0	0	0	0	0	0	0	0
6/5/2024 15:43	16301	ALPA_T1	0	0	0	0	0	0	0.61	0.63	0	0	0	0	0	0
6/5/2024 15:43	53902	HALI_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
6/5/2024 15:43	53903	HALI_T2	2	2	0	1.55	1.6	0.05	-0.01	-0.01	0	0	0	0	0	0
6/5/2024 15:43	53901	HALI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/5/2024 15:43	48302	ORWI_T2	1	1	0	0.2	0.3	0.1	-0.17	-0.18	0	0	0	0	0	0
6/5/2024 15:45	53901	HALI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/5/2024 15:45	17802	GILB_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
6/5/2024 15:45	53902	HALI_T2	1	1	0	5.2	4.8	-0.4	0	0	0	0	0	0	0	0
6/5/2024 15:45	53903	HALI_T2	2	2	0	1.6	1.55	-0.05	-0.01	-0.01	0	0	0	0	0	0
6/5/2024 15:46	58402	MORO_T1	0	0	0	0	0	0	-0.58	-0.55	3	3	0	2400	2400	0
6/5/2024 15:47	53903	HALI_T2	2	2	0	1.6	1.55	-0.05	-0.01	-0.01	0	0	0	0	0	0
6/5/2024 15:47	53902	HALI_T2	1	1	0	5.2	4.8	-0.4	0	0	0	0	0	0	0	0
6/5/2024 15:47	53901	HALI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/5/2024 15:50	64101	REFR_T1	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
6/5/2024 15:51	56801	BENV_T1	14	12	-2	0.56	0.53	-0.03	0	0	0	0	0	0	0	0
6/5/2024 15:51	56803	BENV_T1	2	1	-1	1.2	0	-1.2	0	0	1	1	0	600	600	0
6/5/2024 15:52	59101	WALK_T2	0	0	0	0	0	0	1.67	1.65	1	1	0	600	600	0
6/5/2024 15:52	59102	WALK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 15:56	20401	ASHF_T2	1	4	3	0.8	1	0.2	0.48	0.45	0	0	0	0	0	0
6/5/2024 15:56	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 15:57	44902	SCOT_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
6/5/2024 16:00	12501	MITR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 16:00	12505	MITR_T2	0	0	0	0	0	0	0.48	0.34	0	0	0	0	0	0
6/5/2024 16:00	12502	MITR_T2	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0	0
6/5/2024 16:02	13503	MCMI_T2	19	18	-1	0.14	0.13	-0.01	-1.54	-1.55	0	0	0	0	0	0
6/5/2024 16:03	13503	MCMI_T2	19	18	-1	0.14	0.13	-0.01	-0.77	-0.77	0	0	0	0	0	0
6/5/2024 16:03	61703	ELIZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 16:03	61701	ELIZ_T1	1	1	0	3.2	3.1	-0.1	1.04	1.11	0	0	0	0	0	0
6/5/2024 16:04	42201	SHEN_T2	0	0	0	0	0	0	-0.24	-0.26	1	1	0	600	600	0
6/5/2024 16:05	13503	MCMI_T2	19	18	-1	0.14	0.13	-0.01	-0.77	-0.77	0	0	0	0	0	0
6/5/2024 16:08	58003	WCAR_T1	1	1	0	1.2	1.4	0.2	0.95	0.94	2	2	0	1200	1200	0
6/5/2024 16:08	45902	AUBU_T1	0	0	0	0	0	0	0.56	0.57	1	1	0	600	600	0
6/5/2024 16:08	59102	WALK_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
6/5/2024 16:08	58001	WCAR_T1	4	4	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
6/5/2024 16:08	59101	WALK_T2	0	0	0	0	0	0	1.65	1.67	1	1	0	600	600	0
6/5/2024 16:25	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/5/2024 16:25	45501	DERR_T2	1	0	-1	0.4	0	-0.4	0.89	0.79	2	2	0	1800	1800	0
6/5/2024 16:30	42903	MIDD_T2	2	2	0	1.6	1.55	-0.05	0.18	1.07	1	0	-1	1200	0	-1200
6/5/2024 16:34	42201	SHEN_T2	0	0	0	0	0	0	-0.27	-0.28	1	1	0	600	600	0
6/5/2024 16:37	59202	THOM_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/5/2024 16:37	42201	SHEN_T2	0	0	0	0	0	0	-0.28	-0.29	1	1	0	600	600	0
6/5/2024 16:42	63305	GREE_T1	1	3	2	0	0.13	0.13	-1.77	-1.69	1	1	0	900	900	0
6/5/2024 16:43	63305	GREE_T1	1	3	2	0	0.13	0.13	-1.77	-1.69	1	1	0	900	900	0
6/5/2024 16:44	45602	WOOL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 16:45	45602	WOOL_T1	2	62	60	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/5/2024 16:45	53903	HALI_T2	2	2	0	1.6	1.65	0.05	0	0	0	0	0	0	0	0
6/5/2024 16:45	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
6/5/2024 16:45	53901	HALI_T2	0	1	1	0	0.1	0.1	-0.64	-0.64	0	0	0	0	0	0
6/5/2024 16:49	56501	ROCK_T2	1	2	1	0.5	0.1	-0.4	-0.72	-0.72	0	0	0	0	0	0
6/5/2024 16:51	66202	SISP_T2	0	0	0	0	0	0	-0.32	-0.48	0	0	0	0	0	0
6/5/2024 16:52	66202	SISP_T2	0	0	0	0	0	0	-0.32	-0.48	0	0	0	0	0	0
6/5/2024 17:00	64701	LITI_T1	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
6/5/2024 17:07	27605	PIRI_T2	19	18	-1	0.3	0.1	-0.2	1.42	1.2	0	0	0	0	0	0
6/5/2024 17:10	66503	SMAN_T2	0	0	0	0	0	0	0.88	0.87	0	0	0	0	0	0
6/5/2024 17:10	66504	SMAN_T2	2	1	-1	0.1	1.1	1	0	0	0	0	0	0	0	0
6/5/2024 17:11	43402	BENT_T1	0	0	0	0	0	0	-0.76	-0.83	1	1	0	900	900	0
6/5/2024 17:13	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 17:14	24201	PROV_T3	1	1	0	8.2	7.8	-0.4	-0.71	-0.72	1	1	0	1200	1200	0
6/5/2024 17:14	24205	PROV_T3	0	9	9	0	0.23	0.23	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/5/2024 17:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 17:14	24204	PROV_T3	1	1	0	6.3	5.9	-0.4	0	0	0	0	0	0	0	0
6/5/2024 17:16	46101	MACI_T2	0	0	0	0	0	0	-0.41	-0.47	1	1	0	1200	1200	0
6/5/2024 17:16	24501	GOUL_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
6/5/2024 17:17	55002	NEWP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/5/2024 17:17	55001	NEWP_T1	1	1	0	1.1	0.7	-0.4	0.19	0.19	0	0	0	0	0	0
6/5/2024 17:19	55002	NEWP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/5/2024 17:19	55001	NEWP_T1	1	1	0	1.1	0.7	-0.4	0.19	0.19	0	0	0	0	0	0
6/5/2024 17:28	45501	DERR_T2	0	0	0	0	0	0	0.61	0.48	2	2	0	1800	1800	0
6/5/2024 17:30	24205	PROV_T3	9	6	-3	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
6/5/2024 17:30	23203	HIRU_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
6/5/2024 17:30	24204	PROV_T3	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
6/5/2024 17:30	24201	PROV_T3	1	1	0	8.9	8.4	-0.5	-0.72	-0.73	1	1	0	1200	1200	0
6/5/2024 17:32	10901	COOP_T2	0	0	0	0	0	0	0.1	0.07	1	1	0	1200	1200	0
6/5/2024 17:33	64201	KINZ_T1	0	1	1	0	0	0	-0.23	-0.14	3	3	0	1500	1500	0
6/5/2024 17:33	64204	KINZ_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/5/2024 17:33	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/5/2024 17:42	63501	HEID_TBK1-2	2	2	0	0.35	0.3	-0.05	0.22	0.23	1	1	0	900	900	0
6/5/2024 17:44	63305	GREE_T1	2	8	6	0.2	0.28	0.08	0	0	0	0	0	0	0	0
6/5/2024 17:44	63306	GREE_T1	0	0	0	0	0	0	-1.73	-1.75	1	1	0	900	900	0
6/5/2024 17:44	50107	HARR_T3	1	1	0	6.5	6.2	-0.3	0.8	0.79	0	0	0	0	0	0
6/5/2024 17:44	50201	HARR_T3	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/5/2024 17:44	50105	HARR_T3	6	6	0	5.77	5.75	-0.02	0	0	0	0	0	0	0	0
6/5/2024 17:44	44801	EDAN_T2	2	4	2	1.15	0.9	-0.25	0.81	0.81	0	0	0	0	0	0
6/5/2024 17:45	63501	HEID_TBK1-2	2	2	0	0.25	0.35	0.1	0.22	0.23	1	1	0	900	900	0
6/5/2024 17:50	52503	PROG_T2	0	0	0	0	0	0	-0.78	-0.77	3	3	0	2700	2700	0
6/5/2024 17:58	52403	GRPA_T2	5	5	0	1.02	0.37	-0.65	-0.15	-0.17	0	0	0	0	0	0
6/5/2024 17:58	52401	GRPA_T2	3	2	-1	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
6/5/2024 17:58	52402	GRPA_T2	3	4	1	0.33	0.53	0.2	0	0	0	0	0	0	0	0
6/5/2024 18:00	20601	GRWO_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/5/2024 18:00	20602	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 18:00	20603	GRWO_T2	0	0	0	0	0	0	-0.43	-0.42	1	1	0	900	900	0
6/5/2024 18:01	23403	HONE_T1	0	0	0	0	0	0	-0.33	-0.21	0	0	0	0	0	0
6/5/2024 18:06	67204	TEHI_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
6/5/2024 18:09	14404	SSLA_T1	1	1	0	3.9	4.1	0.2	0	0	0	0	0	0	0	0
6/5/2024 18:09	14403	SSLA_T1	0	0	0	0	0	0	2.69	2.67	0	0	0	0	0	0
6/5/2024 18:10	67204	TEHI_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
6/5/2024 18:12	44301	BEAV_T2	2	2	0	1.75	2.4	0.65	1.55	1.53	2	2	0	1200	1200	0
6/5/2024 18:13	63501	HEID_TBK1-2	2	2	0	0.3	0.4	0.1	0.22	0.21	1	1	0	900	900	0
6/5/2024 18:14	49802	UNIV_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
6/5/2024 18:15	53501	EVIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/5/2024 18:15	53502	EVIL_T2	0	0	0	0	0	0	0.38	0.37	1	1	0	600	600	0
6/5/2024 18:23	59201	THOM_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/5/2024 18:23	44902	SCOT_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
6/5/2024 18:23	20401	ASHF_T2	1	4	3	0.4	0.13	-0.27	0	0	0	0	0	0	0	0
6/5/2024 18:23	59202	THOM_T1	12	5	-7	0.13	0.14	0.01	0	0	0	0	0	0	0	0
6/5/2024 18:23	20403	ASHF_T2	0	1	1	0	0	0	0.78	0.76	0	0	0	0	0	0
6/5/2024 18:24	46001	BERW_T1	0	0	0	0	0	0	2.09	2.08	0	0	0	0	0	0
6/5/2024 18:27	11104	EGYP_T1	6	8	2	1.73	1.42	-0.31	0	0	0	0	0	0	0	0
6/5/2024 18:27	11102	EGYP_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/5/2024 18:27	11103	EGYP_T1	0	0	0	0	0	0	1.41	1.38	0	0	0	0	0	0
6/5/2024 18:27	10701	CATA_T2	0	0	0	0	0	0	-0.26	-0.25	1	1	0	1200	1200	0
6/5/2024 18:27	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/5/2024 18:28	24204	PROV_T3	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
6/5/2024 18:28	24201	PROV_T3	1	1	0	8.1	7.7	-0.4	-0.75	-0.76	1	1	0	1200	1200	0
6/5/2024 18:28	24205	PROV_T3	6	5	-1	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
6/5/2024 18:38	16201	POKA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 18:39	20401	ASHF_T2	4	2	-2	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
6/5/2024 18:39	20403	ASHF_T2	0	1	1	0	0	0	0.76	0.74	0	0	0	0	0	0
6/5/2024 18:40	24102	EHAZ_T1	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/5/2024 18:40	24101	EHAZ_T1	24	8	-16	0.89	0.35	-0.54	0	0	0	0	0	0	0	0
6/5/2024 18:40	24104	EHAZ_T1	0	0	0	0	0	0	-0.76	-0.76	1	1	0	1200	1200	0
6/5/2024 18:40	24105	EHAZ_T1	4	4	0	5.73	5.43	-0.3	0	0	0	0	0	0	0	0
6/5/2024 18:45	46506	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/5/2024 18:45	46502	LOHA_T1	0	0	0	0	0	0	0.24	0.25	1	1	0	1200	1200	0
6/5/2024 18:46	15103	UPHA_T2	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
6/5/2024 18:48	13501	MCMI_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
6/5/2024 18:54	43402	BENT_T1	0	0	0	0	0	0	-0.85	-0.85	1	1	0	900	900	0
6/5/2024 18:54	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 18:57	53502	EVIL_T2	0	0	0	0	0	0	0.36	0.35	1	1	0	600	600	0
6/5/2024 18:57	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/5/2024 19:01	44505	HAMI_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
6/5/2024 19:01	44502	HAMI_T2	1	1	0	2.3	2.5	0.2	0	0	0	0	0	0	0	0
6/5/2024 19:05	41901	REED_T1	9	9	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/5/2024 19:05	41902	REED_T1	1	5	4	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/5/2024 19:05	41903	REED_T1	0	0	0	0	0	0	0.4	0.4	1	1	0	1200	1200	0
6/5/2024 19:17	45003	LIME_2	11	5	-6	0.74	1.95	1.21	0.62	0.57	0	0	0	0	0	0
6/5/2024 19:17	45001	LIME_2	3	2	-1	0.77	0.2	-0.57	0	0	0	0	0	0	0	0
6/5/2024 19:17	45002	LIME_2	1	1	0	4.3	4.5	0.2	0	0	0	0	0	0	0	0
6/5/2024 19:18	47502	NECO_T1	19	29	10	0.34	0.3	-0.04	1.12	1.13	0	0	0	0	0	0
6/5/2024 19:21	14601	SWHI_T1	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
6/5/2024 19:21	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 20:02	43202	MVIL_T2	4	3	-1	0.83	0.45	-0.38	0	0	0	0	0	0	0	0
6/5/2024 20:02	43201	MVIL_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
6/5/2024 20:25	67503	WEWI_T2	0	0	0	0	0	0	0.19	0.23	0	0	0	0	0	0
6/5/2024 20:26	67503	WEWI_T2	0	0	0	0	0	0	0.19	0.23	0	0	0	0	0	0
6/5/2024 20:28	40802	EXCH_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
6/5/2024 20:28	40801	EXCH_T2	3	1	-2	0.13	0.3	0.17	0	0	0	0	0	0	0	0
6/5/2024 20:33	40802	EXCH_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
6/5/2024 20:33	40801	EXCH_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/5/2024 20:36	41902	REED_T1	1	0	-1	0.2	0	-0.2	0.56	0.56	1	1	0	900	900	0
6/5/2024 20:36	41901	REED_T1	9	9	0	0.53	0.53	0	0	0	0	0	0	0	0	0
6/5/2024 20:37	41901	REED_T1	9	9	0	0.53	0.53	0	0	0	0	0	0	0	0	0
6/5/2024 20:37	41902	REED_T1	1	0	-1	0.2	0	-0.2	0.56	0.53	1	1	0	900	900	0
6/5/2024 20:51	60605	NCOL_T2	0	0	0	0	0	0	-1.16	-1.17	0	0	0	0	0	0
6/5/2024 20:52	40602	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 20:52	40601	PIGR_T1	0	7	7	0	0.1	0.1	-0.03	-0.04	0	0	0	0	0	0
6/5/2024 20:55	15703	TANN_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
6/5/2024 20:55	15702	TANN_T2	0	0	0	0	0	0	-0.12	-0.21	0	0	0	0	0	0
6/5/2024 20:58	67803	WLAN_T1	0	158S	158S	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 20:58	67804	WLAN_T1	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
6/5/2024 21:01	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 21:02	67804	WLAN_T1	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
6/5/2024 21:02	67803	WLAN_T1	472	1	-471	9.69	0	-9.69	0	0	0	0	0	0	0	0
6/5/2024 21:09	67703	WERN_T2	0	0	0	0	0	0	-0.45	-0.47	1	1	0	900	900	0
6/5/2024 21:10	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
6/5/2024 21:14	67702	WERN_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
6/5/2024 21:14	67204	TEHI_T2	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
6/5/2024 21:15	67703	WERN_T2	0	0	0	0	0	0	-0.45	-0.47	1	1	0	900	900	0
6/5/2024 21:16	67702	WERN_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
6/5/2024 21:16	61102	BERK_T5	0	0	0	0	0	0	-0.94	-0.92	2	2	0	1200	1200	0
6/5/2024 21:17	40101	HUNT_T2	1	0	-1	0.3	0	-0.3	-0.18	-0.21	0	0	0	0	0	0
6/5/2024 21:20	40101	HUNT_T2	1	0	-1	0.3	0	-0.3	-0.18	-0.21	0	0	0	0	0	0
6/5/2024 21:20	22602	KIMB_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
6/5/2024 21:24	67203	TEHI_T1	0	0	0	0	0	0	2.52	2.37	2	2	0	1500	1500	0
6/5/2024 21:25	61102	BERK_T5	0	0	0	0	0	0	-1.85	-1.8	4	4	0	2400	2400	0
6/5/2024 21:26	61102	BERK_T5	0	0	0	0	0	0	-0.92	-0.9	2	2	0	1200	1200	0
6/5/2024 21:27	59101	WALK_T2	0	0	0	0	0	0	1.11	1.05	1	1	0	600	600	0
6/5/2024 21:27	59102	WALK_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
6/5/2024 21:30	24702	FLND_T2	0	0	0	0	0	0	0.18	-0.14	1	1	0	1200	1200	0
6/5/2024 21:30	59101	WALK_T2	0	0	0	0	0	0	1.11	1.05	1	1	0	600	600	0
6/5/2024 21:30	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/5/2024 21:30	64202	KINZ_T1	0	7	7	0	0.2	0.2	0	0	0	0	0	0	0	0
6/5/2024 21:30	64201	KINZ_T1	5	7	2	0.32	0.43	0.11	0.65	0.63	1	1	0	300	300	0
6/5/2024 21:30	64204	KINZ_T1	4	24	20	0.28	0.28	0	0	0	0	0	0	0	0	0
6/5/2024 21:34	12701	MACU_T1	0	0	0	0	0	0	-0.95	-0.96	1	1	0	1200	1200	0
6/5/2024 21:35	48302	ORWI_T2	2	2	0	1.45	1.55	0.1	-0.44	-0.46	0	0	0	0	0	0
6/5/2024 21:37	59201	THOM_T1	9	16	7	0.21	0.32	0.11	0	0	0	0	0	0	0	0
6/5/2024 21:37	59202	THOM_T1	97	153	56	0.18	0.21	0.03	0	0	0	0	0	0	0	0
6/5/2024 21:38	64204	KINZ_T1	4	24	20	0.28	0.28	0	0	0	0	0	0	0	0	0
6/5/2024 21:38	58003	WCAR_T1	16	39	23	0.24	0.23	-0.01	0.78	0.77	0	0	0	0	0	0
6/5/2024 21:38	64202	KINZ_T1	0	7	7	0	0.2	0.2	0	0	0	0	0	0	0	0
6/5/2024 21:38	58001	WCAR_T1	4	6	2	0.88	0.45	-0.43	0	0	0	0	0	0	0	0
6/5/2024 21:38	64201	KINZ_T1	5	7	2	0.32	0.43	0.11	0.63	0.62	1	1	0	300	300	0
6/5/2024 21:39	65003	NEFF_T2	20	91	71	0.15	0.26	0.11	0	0	0	0	0	0	0	0
6/5/2024 21:39	65001	NEFF_T2	0	19	19	0	0.13	0.13	0	0	0	0	0	0	0	0
6/5/2024 21:39	65004	NEFF_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
6/5/2024 21:40	60201	ATGL_T2	0	0	0	0	0	0	0.6	0.58	1	1	0	300	300	0
6/5/2024 21:40	67702	WERN_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
6/5/2024 21:41	64101	REFR_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
6/5/2024 21:42	44301	BEAV_T2	0	0	0	0	0	0	0.84	0.81	1	1	0	600	600	0
6/5/2024 21:42	60201	ATGL_T2	0	0	0	0	0	0	0.6	0.58	1	1	0	300	300	0
6/5/2024 21:43	24101	EHAZ_T1	14	14	0	1.19	0.96	-0.23	0	0	0	0	0	0	0	0
6/5/2024 21:43	24104	EHAZ_T1	0	0	0	0	0	0	-0.82	-0.83	1	1	0	1200	1200	0
6/5/2024 21:43	24105	EHAZ_T1	4	4	0	5.23	5.63	0.4	0	0	0	0	0	0	0	0
6/5/2024 21:43	24102	EHAZ_T1	5	0	-5	0.94	0	-0.94	0	0	0	0	0	0	0	0
6/5/2024 21:43	63305	GREE_T1	0	0	0	0	0	0	-0.78	-0.9	0	0	0	0	0	0
6/5/2024 21:44	65001	NEFF_T2	0	19	19	0	0.13	0.13	-0.39	-0.39	1	1	0	1200	1200	0
6/5/2024 21:44	65003	NEFF_T2	20	91	71	0.15	0.26	0.11	0	0	0	0	0	0	0	0
6/5/2024 21:45	44301	BEAV_T2	0	0	0	0	0	0	0.84	0.81	1	1	0	600	600	0
6/5/2024 21:47	67603	WARW_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
6/5/2024 21:48	44301	BEAV_T2	0	0	0	0	0	0	0.84	0.81	1	1	0	600	600	0
6/5/2024 21:49	64701	LITI_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
6/5/2024 21:50	60201	ATGL_T2	0	0	0	0	0	0	0.6	0.58	1	1	0	300	300	0
6/5/2024 21:50	67603	WARW_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
6/5/2024 21:52	64101	REFR_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
6/5/2024 21:54	55001	NEWP_T1	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
6/5/2024 21:54	55002	NEWP_T1	5	3	-2	0.68	0.6	-0.08	0	0	0	0	0	0	0	0
6/5/2024 21:54	47001	HUGH_T2	0	0	0	0	0	0	-1.12	-1.19	0	0	0	0	0	0
6/5/2024 21:54	56803	BENV_T1	1	1	0	0.2	2	1.8	0	0	0	0	0	0	0	0
6/5/2024 21:54	56801	BENV_T1	4	0	-4	0.35	0	-0.35	-0.14	-0.19	1	1	0	600	600	0
6/5/2024 21:56	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 21:56	29402	BELT_T1	1	1	0	8	9	1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/5/2024 21:57	10805	CHHI_T2	1	1	0	8.7	8.6	-0.1	-0.81	-0.73	1	1	0	600	600	0
6/5/2024 21:57	29402	BELT_T1	1	1	0	8	9	1	0	0	0	0	0	0	0	0
6/5/2024 21:58	56802	BENV_T2	261	133	-128	0.37	0.26	-0.11	-2.13	-2.18	0	0	0	0	0	0
6/5/2024 21:58	67303	WYOM_T2	0	0	0	0	0	0	-0.77	-0.85	0	0	0	0	0	0
6/5/2024 21:59	64101	REFR_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
6/5/2024 21:59	66503	SMAN_T2	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
6/5/2024 21:59	65502	MOJO_T2	0	0	0	0	0	0	-1.45	-1.5	1	1	0	900	900	0
6/5/2024 22:00	53902	HALI_T2	1	1	0	5.8	5.3	-0.5	0	0	0	0	0	0	0	0
6/5/2024 22:00	53903	HALI_T2	2	2	0	1.65	1.2	-0.45	0	0	0	0	0	0	0	0
6/5/2024 22:00	53901	HALI_T2	1	1	0	0.7	0.2	-0.5	-0.75	-0.76	0	0	0	0	0	0
6/5/2024 22:01	56802	BENV_T2	133	1	-132	0.26	0.8	0.54	-1.07	-1.09	0	0	0	0	0	0
6/5/2024 22:01	54201	PENN_T1	88	6	-82	0.4	0.97	0.57	-0.58	-0.63	0	0	0	0	0	0
6/5/2024 22:01	54203	PENN_T1	47	18	-29	0.59	0.51	-0.08	0	0	0	0	0	0	0	0
6/5/2024 22:01	45802	HEGI_T2	2	12	10	0.45	0.3	-0.15	1.08	0.97	0	0	0	0	0	0
6/5/2024 22:01	63306	GREE_T1	0	0	0	0	0	0	-1.98	-1.01	1	0	-1	900	0	-900
6/5/2024 22:01	54205	PENN_T1	47	0	-47	0.11	0	-0.11	0	0	0	0	0	0	0	0
6/5/2024 22:02	64101	REFR_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
6/5/2024 22:02	26401	INOR_T1	1	1	0	8.5	9.2	0.7	0.57	0.56	0	0	0	0	0	0
6/5/2024 22:03	52401	GRPA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/5/2024 22:03	52402	GRPA_T2	4	3	-1	0.95	0.23	-0.72	0	0	0	0	0	0	0	0
6/5/2024 22:03	52404	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/5/2024 22:03	29402	BELT_T1	1	1	0	9	9.4	0.4	0	0	0	0	0	0	0	0
6/5/2024 22:03	52403	GRPA_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
6/5/2024 22:03	55101	WERT_T1	0	0	0	0	0	0	-1.07	-1.13	2	2	0	1500	1500	0
6/5/2024 22:03	58402	MORO_T1	0	0	0	0	0	0	-0.01	-0.06	2	2	0	1500	1500	0
6/5/2024 22:03	10602	BLGL_T2	1	1	0	9.6	9.6	0	0.54	0.46	0	0	0	0	0	0
6/5/2024 22:03	47401	PENS_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
6/5/2024 22:04	56803	BENV_T1	1	1	0	2.2	1.4	-0.8	-0.01	-0.01	0	0	0	0	0	0
6/5/2024 22:04	66302	MCGO_T2	0	0	0	0	0	0	-1.34	-1.39	1	1	0	600	600	0
6/5/2024 22:04	67204	TEHI_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
6/5/2024 22:04	64101	REFR_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
6/5/2024 22:04	56801	BENV_T1	0	8	8	0	0.39	0.39	0	0	0	0	0	0	0	0
6/5/2024 22:05	53902	HALI_T2	1	1	0	5.8	5.3	-0.5	0	0	0	0	0	0	0	0
6/5/2024 22:05	54203	PENN_T1	47	18	-29	0.59	0.51	-0.08	0	0	0	0	0	0	0	0
6/5/2024 22:05	53903	HALI_T2	2	2	0	1.65	1.2	-0.45	-0.08	-0.09	0	0	0	0	0	0
6/5/2024 22:05	54505	ENOL_T2	1	0	-1	0.6	0	-0.6	-1.1	-1.1	1	1	0	600	600	0
6/5/2024 22:05	54201	PENN_T1	88	6	-82	0.4	0.97	0.57	-0.58	-0.63	0	0	0	0	0	0
6/5/2024 22:05	66703	STRA_T1	4	6	2	0.53	0.42	-0.11	-0.02	-0.03	0	0	0	0	0	0
6/5/2024 22:05	13503	MCMI_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
6/5/2024 22:05	54205	PENN_T1	47	0	-47	0.11	0	-0.11	0	0	0	0	0	0	0	0
6/5/2024 22:05	53901	HALI_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
6/5/2024 22:06	50105	HARR_T3	6	6	0	5.57	6.25	0.68	0	0	0	0	0	0	0	0
6/5/2024 22:06	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 22:06	50201	HARR_T3	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/5/2024 22:06	56501	ROCK_T2	3	2	-1	2.77	4	1.23	-0.93	0.36	0	0	0	0	0	0
6/5/2024 22:06	50103	HARR_T3	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/5/2024 22:06	50107	HARR_T3	1	1	0	6.2	6.8	0.6	0.69	0.68	0	0	0	0	0	0
6/5/2024 22:06	63304	GREE_T1	0	0	0	0	0	0	-1.46	-1.48	0	0	0	0	0	0
6/5/2024 22:06	45902	AUBU_T1	0	0	0	0	0	0	-1.03	-1.05	1	1	0	600	600	0
6/5/2024 22:06	42903	MIDD_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
6/5/2024 22:07	67702	WERN_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
6/5/2024 22:07	64101	REFR_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
6/5/2024 22:07	12402	MILF_T1	0	0	0	0	0	0	0.51	0.5	1	1	0	1200	1200	0
6/5/2024 22:07	54201	PENN_T1	88	6	-82	0.4	0.97	0.57	0	0	0	0	0	0	0	0
6/5/2024 22:07	54205	PENN_T1	47	0	-47	0.11	0	-0.11	0	0	0	0	0	0	0	0
6/5/2024 22:07	54203	PENN_T1	47	18	-29	0.59	0.51	-0.08	0.7	0.68	0	0	0	0	0	0
6/5/2024 22:07	58402	MORO_T1	0	0	0	0	0	0	-0.06	-0.11	2	2	0	1500	1500	0
6/5/2024 22:07	67605	WARW_T1	0	0	0	0	0	0	-1.09	-1.13	0	0	0	0	0	0
6/5/2024 22:07	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.32	-0.32	2	2	0	1800	1800	0
6/5/2024 22:07	63305	GREE_T1	0	0	0	0	0	0	-0.92	-0.94	0	0	0	0	0	0
6/5/2024 22:08	61701	ELIZ_T1	1	2	1	4.6	2.5	-2.1	0.6	0.66	0	0	0	0	0	0
6/5/2024 22:08	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 22:08	40601	PIGR_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
6/5/2024 22:08	56801	BENV_T1	0	8	8	0	0.39	0.39	-0.19	-0.21	1	1	0	600	600	0
6/5/2024 22:08	56803	BENV_T1	1	1	0	2.2	1.4	-0.8	0	0	0	0	0	0	0	0
6/5/2024 22:08	45902	AUBU_T1	0	0	0	0	0	0	-1.05	-1.08	1	1	0	600	600	0
6/5/2024 22:09	44801	EDAN_T2	1	1	0	0.7	0.1	-0.6	0.66	0.65	0	0	0	0	0	0
6/5/2024 22:09	54201	PENN_T1	88	6	-82	0.4	0.97	0.57	-0.63	-0.66	0	0	0	0	0	0
6/5/2024 22:09	66505	SMAN_T2	0	0	0	0	0	0	0.36	0.16	2	2	0	1500	1500	0
6/5/2024 22:09	67702	WERN_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
6/5/2024 22:09	63501	HEID_TBK1-2	1	0	-1	0.1	0	-0.1	0.72	0.66	0	0	0	0	0	0
6/5/2024 22:09	66504	SMAN_T2	0	0	0	0	0	0	0.05	-2.43	0	2	2	0	2400	2400
6/5/2024 22:09	54203	PENN_T1	47	18	-29	0.59	0.51	-0.08	0	0	0	0	0	0	0	0
6/5/2024 22:09	56802	BENV_T2	133	1	-132	0.26	0.8	0.54	-1.09	-1.11	0	0	0	0	0	0
6/5/2024 22:09	54205	PENN_T1	47	0	-47	0.11	0	-0.11	0	0	0	0	0	0	0	0
6/5/2024 22:10	55002	NEWP_T1	3	1	-2	0.6	0.1	-0.5	-0.34	-0.35	0	0	0	0	0	0
6/5/2024 22:10	26603	BROO_T1	0	1	1	0	0.8	0.8	0.47	0.46	0	0	0	0	0	0
6/5/2024 22:10	45001	LIME_2	24	15	-9	0.33	0.18	-0.15	0	0	0	0	0	0	0	0
6/5/2024 22:10	56501	ROCK_T2	3	2	-1	2.77	4	1.23	1.08	0.97	0	0	0	0	0	0
6/5/2024 22:10	45003	LIME_2	2	2	0	1.95	1.9	-0.05	0.41	0.38	0	0	0	0	0	0
6/5/2024 22:10	67702	WERN_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
6/5/2024 22:10	45902	AUBU_T1	0	0	0	0	0	0	-1.05	-1.08	1	1	0	600	600	0
6/5/2024 22:10	40602	PIGR_T1	0	1	1	0	0	0	-0.21	-0.23	0	0	0	0	0	0
6/5/2024 22:10	13503	MCMI_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
6/5/2024 22:10	45002	LIME_2	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
6/5/2024 22:11	53502	EVIL_T2	0	0	0	0	0	0	0.97	0.96	0	0	0	0	0	0
6/5/2024 22:11	53501	EVIL_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
6/5/2024 22:11	45003	LIME_2	2	2	0	1.95	1.9	-0.05	0.41	0.38	0	0	0	0	0	0
6/5/2024 22:11	45002	LIME_2	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
6/5/2024 22:11	45001	LIME_2	24	15	-9	0.33	0.18	-0.15	0	0	0	0	0	0	0	0
6/5/2024 22:11	67605	WARW_T1	0	0	0	0	0	0	-1.09	-1.13	0	0	0	0	0	0
6/5/2024 22:11	45902	AUBU_T1	0	0	0	0	0	0	-1.05	-1.08	1	1	0	600	600	0
6/5/2024 22:12	54601	SUMM_T2	6	0	-6	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/5/2024 22:12	66202	SISP_T2	0	0	0	0	0	0	-0.43	-0.76	0	0	0	0	0	0
6/5/2024 22:12	54603	SUMM_T2	0	0	0	0	0	0	-0.13	-0.18	1	1	0	900	900	0
6/5/2024 22:13	10701	CATA_T2	0	0	0	0	0	0	-0.4	-0.38	1	1	0	1200	1200	0
6/5/2024 22:13	10801	CHHI_T1	0	0	0	0	0	0	-1.62	-1.64	3	3	0	2100	2100	0
6/5/2024 22:13	23202	HIRU_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
6/5/2024 22:13	63501	HEID_TBK1-2	1	0	-1	0.1	0	-0.1	0.72	0.66	0	0	0	0	0	0
6/5/2024 22:14	44502	HAMI_T2	1	1	0	3	3	0	0	0	0	0	0	0	0	0
6/5/2024 22:14	17002	RIRO_T2	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
6/5/2024 22:14	58402	MORO_T1	0	0	0	0	0	0	-0.06	-0.11	2	2	0	1500	1500	0
6/5/2024 22:14	52502	PROG_T2	0	0	0	0	0	0	-0.35	-0.37	1	1	0	900	900	0
6/5/2024 22:14	44505	HAMI_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
6/5/2024 22:14	26603	BROO_T1	0	1	1	0	0.8	0.8	0.47	0.46	0	0	0	0	0	0
6/5/2024 22:14	42902	MIDD_T2	0	0	0	0	0	0	-1.02	-1.07	1	1	0	600	600	0
6/5/2024 22:15	66505	SMAN_T2	0	0	0	0	0	0	0.36	0.16	2	2	0	1500	1500	0
6/5/2024 22:15	53501	EVIL_T2	2	2	0	0.55	0.75	0.2	-0.63	-0.59	1	1	0	600	600	0
6/5/2024 22:15	46001	BERW_T1	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
6/5/2024 22:16	67402	WAKE_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
6/5/2024 22:16	15103	UPHA_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
6/5/2024 22:16	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 22:16	52502	PROG_T2	0	0	0	0	0	0	-0.35	-0.37	1	1	0	900	900	0
6/5/2024 22:16	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
6/5/2024 22:16	13503	MCMI_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
6/5/2024 22:16	63501	HEID_TBK1-2	0	0	0	0	0	0	0.72	0.66	0	0	0	0	0	0
6/5/2024 22:17	13503	MCMI_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
6/5/2024 22:17	20603	GRWO_T2	4	1	-3	0.1	0.1	0	-0.48	-0.49	1	1	0	900	900	0
6/5/2024 22:17	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 22:17	53501	EVIL_T2	2	2	0	0.55	0.75	0.2	-0.63	-0.59	1	1	0	600	600	0
6/5/2024 22:17	56501	ROCK_T2	2	2	0	4	2.95	-1.05	0.36	0.32	0	0	0	0	0	0
6/5/2024 22:17	52004	LING_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
6/5/2024 22:17	58401	MORO_T1	0	0	0	0	0	0	-0.82	-0.83	1	1	0	600	600	0
6/5/2024 22:17	58003	WCAR_T1	1	1	0	1.3	1.4	0.1	0.77	0.76	0	0	0	0	0	0
6/5/2024 22:17	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/5/2024 22:17	58001	WCAR_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
6/5/2024 22:17	17802	GILB_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
6/5/2024 22:18	45802	HEGI_T2	12	1	-11	0.45	0.3	-0.15	0.97	0.88	0	0	0	0	0	0
6/5/2024 22:18	43302	WATS_T2	4	4	0	0.68	0.75	0.07	0	0	0	0	0	0	0	0
6/5/2024 22:18	11104	EGYP_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/5/2024 22:18	56802	BENV_T2	1	1	0	0.6	0.8	0.2	-1.09	-1.11	0	0	0	0	0	0
6/5/2024 22:18	43301	WATS_T2	0	1	1	0	0.3	0.3	0.53	0.52	0	0	0	0	0	0
6/5/2024 22:18	11103	EGYP_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
6/5/2024 22:19	13905	SEID_T1	0	0	0	0	0	0	-0.69	-0.7	1	1	0	1200	1200	0
6/5/2024 22:19	56802	BENV_T2	1	1	0	0.6	0.8	0.2	-2.18	-2.22	0	0	0	0	0	0
6/5/2024 22:19	56501	ROCK_T2	2	2	0	4	2.95	-1.05	0.36	0.32	0	0	0	0	0	0
6/5/2024 22:19	42902	MIDD_T2	0	0	0	0	0	0	-1.02	-1.07	1	1	0	600	600	0
6/5/2024 22:19	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.09	-1.13	0	0	0	0	0	0
6/5/2024 22:19	17804	GILB_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
6/5/2024 22:19	10801	CHHI_T1	0	17	17	0	0.1	0.1	-1.62	-1.64	3	3	0	2100	2100	0
6/5/2024 22:19	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
6/5/2024 22:19	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 22:19	58001	WCAR_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
6/5/2024 22:19	67402	WAKE_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
6/5/2024 22:19	58003	WCAR_T1	1	1	0	1.3	1.4	0.1	0.77	0.76	0	0	0	0	0	0
6/5/2024 22:19	20401	ASHF_T2	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
6/5/2024 22:19	44201	POIN_T1	102	208	106	0.22	0.33	0.11	-2.08	-2.17	2	2	0	2100	2100	0
6/5/2024 22:20	24501	GOUL_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
6/5/2024 22:20	58001	WCAR_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
6/5/2024 22:20	67703	WERN_T2	0	0	0	0	0	0	-0.53	-0.55	1	1	0	900	900	0
6/5/2024 22:20	53501	EVIL_T2	2	2	0	0.55	0.75	0.2	-0.63	-0.59	1	1	0	600	600	0
6/5/2024 22:20	66302	MCGO_T2	0	0	0	0	0	0	-1.39	-1.35	1	1	0	600	600	0
6/5/2024 22:20	14403	SSLA_T1	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
6/5/2024 22:20	49802	UNIV_T2	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
6/5/2024 22:20	53903	HALI_T2	2	2	0	1	1.2	0.2	-0.09	-0.09	0	0	0	0	0	0
6/5/2024 22:20	66504	SMAN_T2	0	0	0	0	0	0	0.03	-1.21	0	1	1	0	1200	1200
6/5/2024 22:20	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/5/2024 22:20	46101	MACI_T2	0	0	0	0	0	0	0.7	0.69	0	0	0	0	0	0
6/5/2024 22:20	43301	WATS_T2	0	1	1	0	0.3	0.3	0.53	0.52	0	0	0	0	0	0
6/5/2024 22:20	14404	SSLA_T1	1	1	0	4.3	4.6	0.3	0	0	0	0	0	0	0	0
6/5/2024 22:20	58003	WCAR_T1	1	1	0	1.3	1.4	0.1	0.77	0.76	0	0	0	0	0	0
6/5/2024 22:20	43302	WATS_T2	4	4	0	0.68	0.75	0.07	0	0	0	0	0	0	0	0
6/5/2024 22:20	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/5/2024 22:20	53902	HALI_T2	1	1	0	4.8	5.3	0.5	0	0	0	0	0	0	0	0
6/5/2024 22:21	49804	UNIV_T1	0	0	0	0	0	0	0.8	0.78	0	0	0	0	0	0
6/5/2024 22:21	56501	ROCK_T2	2	2	0	4	2.95	-1.05	0.36	0.32	0	0	0	0	0	0
6/5/2024 22:21	53501	EVIL_T2	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
6/5/2024 22:21	44505	HAMI_T2	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
6/5/2024 22:21	53502	EVIL_T2	0	0	0	0	0	0	0.97	0.96	0	0	0	0	0	0
6/5/2024 22:21	24105	EHAZ_T1	4	4	0	5.98	5.8	-0.18	0	0	0	0	0	0	0	0
6/5/2024 22:21	24102	EHAZ_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
6/5/2024 22:21	44502	HAMI_T2	1	1	0	2.9	3.1	0.2	0	0	0	0	0	0	0	0
6/5/2024 22:21	24104	EHAZ_T1	0	0	0	0	0	0	-0.83	-0.83	1	1	0	1200	1200	0
6/5/2024 22:21	45501	DERR_T2	1	0	-1	0.1	0	-0.1	-0.32	-0.31	2	2	0	1800	1800	0
6/5/2024 22:22	44505	HAMI_T2	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
6/5/2024 22:22	52402	GRPA_T2	3	3	0	0.2	0.23	0.03	0	0	0	0	0	0	0	0
6/5/2024 22:22	47502	NECO_T1	9	1	-8	0.2	0.9	0.7	1	0.91	0	0	0	0	0	0
6/5/2024 22:22	15703	TANN_T2	1	1	0	5	4.8	-0.2	0	0	0	0	0	0	0	0
6/5/2024 22:22	55405	SHER_T1	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
6/5/2024 22:22	52403	GRPA_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
6/5/2024 22:22	20403	ASHF_T2	0	0	0	0	0	0	0.43	0.35	0	0	0	0	0	0
6/5/2024 22:22	44502	HAMI_T2	1	1	0	2.9	3.1	0.2	0	0	0	0	0	0	0	0
6/5/2024 22:22	43105	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/5/2024 22:22	44201	POIN_T1	102	208	106	0.22	0.33	0.11	-2.17	-2.15	2	2	0	2100	2100	0
6/5/2024 22:22	43102	SMIL_T2	6	6	0	0.32	0.45	0.13	0	0	0	0	0	0	0	0
6/5/2024 22:22	26703	HEML_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	600	600	0
6/5/2024 22:22	42201	SHEN_T2	0	0	0	0	0	0	0.21	0.21	1	1	0	600	600	0
6/5/2024 22:22	52401	GRPA_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
6/5/2024 22:22	15702	TANN_T2	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
6/5/2024 22:22	43103	SMIL_T2	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
6/5/2024 22:22	14203	EALL_T1	0	0	0	0	0	0	0.05	0.14	1	1	0	1200	1200	0
6/5/2024 22:22	47401	PENS_T1	0	1	1	0	0	0	-0.03	-0.03	0	0	0	0	0	0
6/5/2024 22:23	12502	MITR_T2	1	1	0	6.7	6.3	-0.4	0	0	0	0	0	0	0	0
6/5/2024 22:23	58003	WCAR_T1	1	1	0	1.3	1.4	0.1	0.76	0.75	0	0	0	0	0	0
6/5/2024 22:23	58001	WCAR_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
6/5/2024 22:23	13501	MCMI_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
6/5/2024 22:23	63302	GREE_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
6/5/2024 22:23	45501	DERR_T2	1	0	-1	0.1	0	-0.1	-0.32	-0.31	2	2	0	1800	1800	0
6/5/2024 22:23	12301	LANA_T2	0	0	0	0	0	0	-0.9	-0.91	1	1	0	1200	1200	0
6/5/2024 22:23	11104	EGYP_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/5/2024 22:23	12505	MITR_T2	0	0	0	0	0	0	1.22	1.19	0	0	0	0	0	0
6/5/2024 22:23	11103	EGYP_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
6/5/2024 22:24	15703	TANN_T2	1	1	0	5	4.8	-0.2	0	0	0	0	0	0	0	0
6/5/2024 22:24	16103	BING_T2	0	0	0	0	0	0	-1.6	-1.06	2	1	-1	1500	900	-600
6/5/2024 22:24	63304	GREE_T1	0	0	0	0	0	0	-1.48	-1.51	0	0	0	0	0	0
6/5/2024 22:24	15702	TANN_T2	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
6/5/2024 22:24	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 22:24	58401	MORO_T1	0	0	0	0	0	0	-0.83	-0.84	1	1	0	600	600	0
6/5/2024 22:24	16102	BING_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/5/2024 22:24	24204	PROV_T3	1	1	0	7	6.7	-0.3	0	0	0	0	0	0	0	0
6/5/2024 22:24	24201	PROV_T3	1	1	0	7.9	7.5	-0.4	-0.97	-0.99	1	1	0	1200	1200	0
6/5/2024 22:24	17802	GILB_T1	0	0	0	0	0	0	0.21	0.32	0	0	0	0	0	0
6/5/2024 22:24	67201	TEHI_T1	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
6/5/2024 22:25	14801	TREI_T2	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
6/5/2024 22:25	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.13	-1.16	0	0	0	0	0	0
6/5/2024 22:25	10801	CHHI_T1	0	17	17	0	0.1	0.1	-1.64	-1.66	3	3	0	2100	2100	0
6/5/2024 22:25	24902	WHHA_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
6/5/2024 22:25	46504	LOHA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/5/2024 22:25	40601	PIGR_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
6/5/2024 22:25	53903	HALI_T2	2	2	0	1	1.2	0.2	-0.09	-0.09	0	0	0	0	0	0
6/5/2024 22:25	41903	REED_T1	0	0	0	0	0	0	0.15	0.2	1	1	0	1200	1200	0
6/5/2024 22:25	26401	INOR_T1	1	1	0	9.1	9.4	0.3	0	0	0	0	0	0	0	0
6/5/2024 22:25	40602	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/5/2024 22:25	12502	MITR_T2	1	1	0	6.7	6.3	-0.4	0	0	0	0	0	0	0	0
6/5/2024 22:25	26402	INOR_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
6/5/2024 22:25	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 22:25	46001	BERW_T1	0	0	0	0	0	0	0.87	0.85	0	0	0	0	0	0
6/5/2024 22:25	41901	REED_T1	3	9	6	0.23	0.28	0.05	0	0	0	0	0	0	0	0
6/5/2024 22:25	53902	HALI_T2	1	1	0	4.8	5.3	0.5	0	0	0	0	0	0	0	0
6/5/2024 22:25	46502	LOHA_T1	0	0	0	0	0	0	0.15	0.14	1	1	0	1200	1200	0
6/5/2024 22:25	12505	MITR_T2	0	0	0	0	0	0	1.22	1.19	0	0	0	0	0	0
6/5/2024 22:25	42201	SHEN_T2	0	0	0	0	0	0	0.21	0.21	1	1	0	600	600	0
6/5/2024 22:25	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/5/2024 22:25	20403	ASHF_T2	0	0	0	0	0	0	0.43	0.35	0	0	0	0	0	0
6/5/2024 22:25	10805	CHHI_T2	1	1	0	9	8.5	-0.5	-0.82	-0.92	1	1	0	600	600	0
6/5/2024 22:26	10801	CHHI_T1	0	17	17	0	0.1	0.1	-1.64	-1.66	3	3	0	2100	2100	0
6/5/2024 22:26	24902	WHHA_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
6/5/2024 22:26	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 22:26	14404	SSLA_T1	1	1	0	4.3	4.6	0.3	0	0	0	0	0	0	0	0
6/5/2024 22:26	44801	EDAN_T2	1	1	0	0.3	0.1	-0.2	0.65	0.63	0	0	0	0	0	0
6/5/2024 22:26	10901	COOP_T2	0	0	0	0	0	0	-0.35	-0.36	1	1	0	1200	1200	0
6/5/2024 22:26	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 22:26	14403	SSLA_T1	0	0	0	0	0	0	0.87	0.85	0	0	0	0	0	0
6/5/2024 22:26	45601	WOOL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
6/5/2024 22:27	44801	EDAN_T2	1	1	0	0.3	0.1	-0.2	0.65	0.63	0	0	0	0	0	0
6/5/2024 22:27	20603	GRWO_T2	4	1	-3	0.1	0.1	0	-0.49	-0.5	1	1	0	900	900	0
6/5/2024 22:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 22:27	52002	LING_T2	0	0	0	0	0	0	0.26	0.19	0	0	0	0	0	0
6/5/2024 22:27	42201	SHEN_T2	0	0	0	0	0	0	0.21	0.21	1	1	0	600	600	0
6/5/2024 22:28	52503	PROG_T2	0	0	0	0	0	0	-0.99	-1.01	2	2	0	1800	1800	0
6/5/2024 22:28	16301	ALPA_T1	14	2	-12	0.17	0.35	0.18	0.07	0.04	0	0	0	0	0	0
6/5/2024 22:28	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/5/2024 22:28	53902	HALI_T2	1	1	0	4.8	5.3	0.5	0	0	0	0	0	0	0	0
6/5/2024 22:28	53903	HALI_T2	2	2	0	1	1.2	0.2	-0.09	-0.09	0	0	0	0	0	0
6/5/2024 22:29	23403	HONE_T1	42	105	63	0.12	0.16	0.04	-0.5	-0.51	0	0	0	0	0	0
6/5/2024 22:29	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 22:29	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 22:29	23404	HONE_T1	5	36	31	0.1	0.12	0.02	0	0	0	0	0	0	0	0
6/5/2024 22:29	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/5/2024 22:29	45502	DERR_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
6/5/2024 22:29	56501	ROCK_T2	2	2	0	4	2.95	-1.05	0.32	0.29	0	0	0	0	0	0
6/5/2024 22:30	43103	SMIL_T2	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
6/5/2024 22:30	26603	BROO_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/5/2024 22:30	43301	WATS_T2	0	1	1	0	0.3	0.3	0.52	-0.46	0	1	1	0	900	900
6/5/2024 22:30	43102	SMIL_T2	6	2	-4	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
6/5/2024 22:30	26601	BROO_T1	0	0	0	0	0	0	-0.09	-0.1	1	1	0	600	600	0
6/5/2024 22:30	44902	SCOT_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
6/5/2024 22:30	43302	WATS_T2	4	4	0	0.75	0.75	0	0	0	0	0	0	0	0	0
6/5/2024 22:30	43105	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/5/2024 22:30	14601	SWHI_T1	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
6/5/2024 22:30	25503	MADI_T1	1	1	0	0.1	0.1	0	-0.79	-0.8	0	0	0	0	0	0
6/5/2024 22:30	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 22:31	49804	UNIV_T1	0	0	0	0	0	0	0.8	0.78	0	0	0	0	0	0
6/5/2024 22:31	44902	SCOT_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
6/5/2024 22:31	44201	POIN_T1	179	293	114	0.32	0.38	0.06	-2.17	-2.15	2	2	0	2100	2100	0
6/5/2024 22:31	24901	WHHA_T1	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
6/5/2024 22:31	43302	WATS_T2	4	4	0	0.75	0.75	0	0	0	0	0	0	0	0	0
6/5/2024 22:31	43301	WATS_T2	0	1	1	0	0.3	0.3	0.52	-0.46	0	1	1	0	900	900
6/5/2024 22:31	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
6/5/2024 22:32	20403	ASHF_T2	0	0	0	0	0	0	0.43	0.35	0	0	0	0	0	0
6/5/2024 22:32	45501	DERR_T2	0	0	0	0	0	0	-0.32	-0.31	2	2	0	1800	1800	0
6/5/2024 22:32	27605	PIRI_T2	0	2	2	0	0.15	0.15	0.86	0.89	0	0	0	0	0	0
6/5/2024 22:32	20401	ASHF_T2	1	2	1	2.6	0.15	-2.45	0	0	0	0	0	0	0	0
6/5/2024 22:32	27603	PIRI_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/5/2024 22:33	21203	ECAR_T1	0	0	0	0	0	0	-0.31	0.67	0	0	0	0	0	0
6/5/2024 22:34	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
6/5/2024 22:35	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
6/5/2024 22:35	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2024 22:36	43302	WATS_T2	4	4	0	0.75	0.75	0	0	0	0	0	0	0	0	0
6/5/2024 22:36	43301	WATS_T2	0	1	1	0	0.3	0.3	-0.91	0.96	0	2	2	0	1800	1800
6/5/2024 22:37	67605	WARW_T1	0	1	1	0	0.2	0.2	-1.16	-1.19	0	0	0	0	0	0
6/5/2024 22:38	67605	WARW_T1	0	1	1	0	0.2	0.2	-1.16	-1.19	0	0	0	0	0	0
6/5/2024 0:24	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.91	1	1	0	900	900	0
6/6/2024 0:25	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.91	1	1	0	900	900	0
6/6/2024 0:31	67605	WARW_T1	18	16	-2	0.49	0.59	0.1	-1.07	-1.09	0	0	0	0	0	0
6/6/2024 0:32	67605	WARW_T1	18	16	-2	0.49	0.59	0.1	-1.07	-1.09	0	0	0	0	0	0
6/6/2024 0:44	16101	BING_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
6/6/2024 0:44	16102	BING_T2	2	3	1	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
6/6/2024 1:29	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	900	900	0
6/6/2024 1:30	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	900	900	0
6/6/2024 1:51	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	900	900	0
6/6/2024 1:52	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	900	900	0
6/6/2024 2:13	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	900	900	0
6/6/2024 2:14	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	900	900	0
6/6/2024 2:35	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.89	1	1	0	900	900	0
6/6/2024 2:36	43402	BENT_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	900	900	0
6/6/2024 2:57	43402	BENT_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	900	900	0
6/6/2024 2:58	43402	BENT_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	900	900	0
6/6/2024 3:19	43402	BENT_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	900	900	0
6/6/2024 3:20	43402	BENT_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	900	900	0
6/6/2024 3:41	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
6/6/2024 3:42	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
6/6/2024 4:03	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
6/6/2024 4:04	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
6/6/2024 4:25	43402	BENT_T1	0	0	0	0	0	0	-0.85	-0.82	1	1	0	900	900	0
6/6/2024 4:26	43402	BENT_T1	0	0	0	0	0	0	-0.85	-0.82	1	1	0	900	900	0
6/6/2024 4:47	43402	BENT_T1	0	0	0	0	0	0	-0.82	-0.81	1	1	0	900	900	0
6/6/2024 4:48	43402	BENT_T1	0	0	0	0	0	0	-0.82	-0.81	1	1	0	900	900	0
6/6/2024 5:30	43402	BENT_T1	0	0	0	0	0	0	-0.81	-0.81	1	1	0	900	900	0
6/6/2024 5:31	43402	BENT_T1	0	0	0	0	0	0	-0.81	-0.81	1	1	0	900	900	0
6/6/2024 6:18	56501	ROCK_T2	1	1	0	0.2	0.6	0.4	0.07	0.07	0	0	0	0	0	0
6/6/2024 6:50	51505	SWAT_T2	0	0	0	0	0	0	1.65	1.86	0	0	0	0	0	0
6/6/2024 7:05	67703	WERN_T2	0	0	0	0	0	0	-0.05	-0.01	1	1	0	900	900	0
6/6/2024 7:06	67106	SPRI_T2	0	0	0	0	0	0	-1.71	-1.7	2	2	0	1500	1500	0
6/6/2024 7:06	67602	WARW_T2	0	0	0	0	0	0	-0.06	-0.06	2	2	0	1500	1500	0
6/6/2024 7:07	67703	WERN_T2	0	0	0	0	0	0	-0.01	0.04	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/6/2024 7:08	67602	WARW_T2	0	0	0	0	0	0	-0.06	-0.06	2	2	0	1500	1500	0
6/6/2024 7:09	67602	WARW_T2	0	0	0	0	0	0	-0.06	-0.06	2	2	0	1500	1500	0
6/6/2024 7:11	45501	DERR_T2	2	1	-1	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
6/6/2024 7:11	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0.03	0.04	0	0	0	0	0	0
6/6/2024 7:16	13501	MCMI_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
6/6/2024 7:17	65603	QVIL_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
6/6/2024 7:19	24204	PROV_T3	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
6/6/2024 7:19	24201	PROV_T3	1	1	0	6.6	6.3	-0.3	-1.2	-1.2	1	1	0	1200	1200	0
6/6/2024 7:26	45501	DERR_T2	1	1	0	0.8	1	0.2	0.99	1.03	2	2	0	1800	1800	0
6/6/2024 7:28	60902	DONG_T2	0	1	1	0	0	0	1.14	1.17	0	0	0	0	0	0
6/6/2024 7:31	56803	BENV_T1	0	0	0	0	0	0	-0.04	-0.04	1	1	0	600	600	0
6/6/2024 7:31	56801	BENV_T1	11	8	-3	1.14	0.96	-0.18	0	0	0	0	0	0	0	0
6/6/2024 7:31	64902	MILL_T2	0	0	0	0	0	0	-0.37	-0.36	1	1	0	900	900	0
6/6/2024 7:32	56803	BENV_T1	0	0	0	0	0	0	-0.04	-0.04	1	1	0	600	600	0
6/6/2024 7:32	56801	BENV_T1	11	8	-3	1.14	0.96	-0.18	0	0	0	0	0	0	0	0
6/6/2024 7:32	60605	NCOL_T2	0	0	0	0	0	0	-1.13	-1.11	0	0	0	0	0	0
6/6/2024 7:33	64904	MILL_T1	0	2	2	0	0.1	0.1	-0.25	-0.22	0	0	0	0	0	0
6/6/2024 7:33	64901	MILL_T1	0	8	8	0	0.16	0.16	0	0	0	0	0	0	0	0
6/6/2024 7:33	60605	NCOL_T2	0	0	0	0	0	0	-1.13	-1.11	0	0	0	0	0	0
6/6/2024 7:34	67204	TEHI_T2	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
6/6/2024 7:34	64902	MILL_T2	0	0	0	0	0	0	-0.37	-0.36	1	1	0	900	900	0
6/6/2024 7:35	56803	BENV_T1	0	0	0	0	0	0	-0.04	-0.04	1	1	0	600	600	0
6/6/2024 7:35	56801	BENV_T1	11	8	-3	1.14	0.96	-0.18	0	0	0	0	0	0	0	0
6/6/2024 7:36	20401	ASHF_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/6/2024 7:36	20403	ASHF_T2	0	0	0	0	0	0	1.16	1.16	0	0	0	0	0	0
6/6/2024 7:36	67204	TEHI_T2	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
6/6/2024 7:39	59101	WALK_T2	0	0	0	0	0	0	1.84	1.98	0	0	0	0	0	0
6/6/2024 7:40	62607	ENGL_T1	0	0	0	0	0	0	-0.85	-0.84	1	1	0	300	300	0
6/6/2024 7:40	62601	ENGL_T1	0	0	0	0	0	0	-0.38	-0.3	0	0	0	0	0	0
6/6/2024 7:42	40802	EXCH_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
6/6/2024 7:42	56801	BENV_T1	11	8	-3	1.14	0.96	-0.18	0	0	0	0	0	0	0	0
6/6/2024 7:42	56803	BENV_T1	0	0	0	0	0	0	-0.04	-0.03	1	1	0	600	600	0
6/6/2024 7:44	20601	GRWO_T2	0	2	2	0	0.25	0.25	1.06	1.23	0	0	0	0	0	0
6/6/2024 7:46	12006	HATF_T1	0	0	0	0	0	0	0.9	1	1	1	0	1200	1200	0
6/6/2024 7:49	56802	BENV_T2	0	61	61	0	0.22	0.22	0	-0.14	0	0	0	0	0	0
6/6/2024 7:49	57403	SPAN_T1	0	5	5	0	0.14	0.14	0.06	0.07	0	0	0	0	0	0
6/6/2024 7:50	67702	WERN_T2	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
6/6/2024 7:51	15702	TANN_T2	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
6/6/2024 7:51	67804	WLAN_T1	0	0	0	0	0	0	-0.93	-0.91	0	0	0	0	0	0
6/6/2024 7:51	15703	TANN_T2	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
6/6/2024 7:51	48302	ORWI_T2	2	2	0	0.75	0.95	0.2	-0.49	-0.47	0	0	0	0	0	0
6/6/2024 7:52	67803	WLAN_T1	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
6/6/2024 7:53	67804	WLAN_T1	0	0	0	0	0	0	-1.86	-1.82	0	0	0	0	0	0
6/6/2024 7:53	67803	WLAN_T1	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
6/6/2024 7:53	15703	TANN_T2	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
6/6/2024 7:53	15702	TANN_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
6/6/2024 7:53	67505	WEWI_T1	0	0	0	0	0	0	0.45	0.58	2	2	0	1800	1800	0
6/6/2024 7:54	67801	WLAN_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
6/6/2024 7:54	67702	WERN_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
6/6/2024 7:55	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 7:55	67805	WLAN_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
6/6/2024 7:55	45501	DERR_T2	1	1	0	1.1	0.8	-0.3	0.94	0.94	2	2	0	1800	1800	0
6/6/2024 7:55	67703	WERN_T2	0	0	0	0	0	0	0.12	0.12	2	2	0	1800	1800	0
6/6/2024 7:56	67804	WLAN_T1	0	0	0	0	0	0	-0.93	-0.91	0	0	0	0	0	0
6/6/2024 8:01	56501	ROCK_T2	3	3	0	1.83	3.13	1.3	-2.28	-2.25	0	0	0	0	0	0
6/6/2024 8:01	56802	BENV_T2	62	5	-57	0.33	0	-0.33	-0.14	-0.13	0	0	0	0	0	0
6/6/2024 8:04	54203	PENN_T1	18	18	0	0.43	1	0.57	0.42	0.48	0	0	0	0	0	0
6/6/2024 8:04	13501	MCMI_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
6/6/2024 8:04	54201	PENN_T1	3	55	52	1.7	0.33	-1.37	0	0	0	0	0	0	0	0
6/6/2024 8:07	58006	WCAR_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
6/6/2024 8:08	15203	SFAR_T2	0	0	0	0	0	0	-0.96	-0.94	0	0	0	0	0	0
6/6/2024 8:15	56601	HAMP_T1	0	0	0	0	0	0	-1.49	-1.3	0	0	0	0	0	0
6/6/2024 8:19	50701	SMEC_T1	0	1	1	0	0	0	-0.59	-0.53	1	1	0	1200	1200	0
6/6/2024 8:20	67103	SPRI_T1	0	0	0	0	0	0	0.19	0.31	0	0	0	0	0	0
6/6/2024 8:21	50701	SMEC_T1	0	1	1	0	0	0	-0.59	-0.53	1	1	0	1200	1200	0
6/6/2024 8:23	10805	CHHI_T2	9	7	-2	1.38	2.58	1.2	-0.57	-0.55	1	1	0	600	600	0
6/6/2024 8:24	58003	WCAR_T1	3	8	5	0.63	0.35	-0.28	0	0	0	0	0	0	0	0
6/6/2024 8:24	58001	WCAR_T1	4	4	0	1.05	1.08	0.03	1	0.99	0	0	0	0	0	0
6/6/2024 8:25	58006	WCAR_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
6/6/2024 8:27	10805	CHHI_T2	9	7	-2	1.38	2.58	1.2	-0.57	-0.55	1	1	0	600	600	0
6/6/2024 8:28	10805	CHHI_T2	9	7	-2	1.38	2.58	1.2	-0.57	-0.55	1	1	0	600	600	0
6/6/2024 8:29	45601	WOOL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
6/6/2024 8:29	13501	MCMI_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
6/6/2024 8:34	58705	ROSE_T2	5	5	0	1.36	1.5	0.14	0	0	0	0	0	0	0	0
6/6/2024 8:34	58706	ROSE_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
6/6/2024 8:34	58702	ROSE_T2	0	0	0	0	0	0	-1.25	-1.42	0	0	0	0	0	0
6/6/2024 8:35	13501	MCMI_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
6/6/2024 8:35	13502	MCMI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 8:36	15702	TANN_T2	0	0	0	0	0	0	-0.3	-0.26	0	0	0	0	0	0
6/6/2024 8:36	15703	TANN_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
6/6/2024 8:37	58705	ROSE_T2	5	5	0	1.36	1.5	0.14	0	0	0	0	0	0	0	0
6/6/2024 8:37	58706	ROSE_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
6/6/2024 8:37	58702	ROSE_T2	0	0	0	0	0	0	-1.42	-1.3	0	0	0	0	0	0
6/6/2024 8:49	64904	MILL_T1	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
6/6/2024 8:50	67605	WARW_T1	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
6/6/2024 8:51	58102	NEKI_T1	1	1	0	1.4	1.3	-0.1	-0.67	-0.5	1	1	0	1200	1200	0
6/6/2024 8:56	67803	WLAN_T1	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
6/6/2024 8:59	53901	HALI_T2	1	7	6	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/6/2024 8:59	53902	HALI_T2	1	1	0	5.8	5.2	-0.6	-0.68	-0.67	0	0	0	0	0	0
6/6/2024 8:59	53903	HALI_T2	2	2	0	1.6	1.65	0.05	0	0	0	0	0	0	0	0
6/6/2024 9:01	40101	HUNT_T2	0	2	2	0	0	0	-0.25	-0.26	0	0	0	0	0	0
6/6/2024 9:03	15204	SFAR_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
6/6/2024 9:04	15204	SFAR_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
6/6/2024 9:05	67204	TEHI_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
6/6/2024 9:06	24801	VALM_T1	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
6/6/2024 9:08	67204	TEHI_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
6/6/2024 9:11	16102	BING_T2	0	0	0	0	0	0	0.85	0.9	0	0	0	0	0	0
6/6/2024 9:11	45901	AUBU_T1	0	0	0	0	0	0	1.85	1.87	0	0	0	0	0	0
6/6/2024 9:12	67605	WARW_T1	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
6/6/2024 9:13	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 9:13	67605	WARW_T1	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
6/6/2024 9:23	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 9:24	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 9:25	10805	CHHI_T2	3	5	2	3.27	2.65	-0.62	-0.53	-0.51	1	1	0	600	600	0
6/6/2024 9:32	40101	HUNT_T2	2	4	2	0.25	0	-0.25	-0.24	-0.23	0	0	0	0	0	0
6/6/2024 9:43	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/6/2024 9:45	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/6/2024 9:52	67605	WARW_T1	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
6/6/2024 9:54	24103	EHAZ_T1	0	0	0	0	0	0	-1.12	-1.16	0	0	0	0	0	0
6/6/2024 9:54	24101	EHAZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/6/2024 9:54	45902	AUBU_T1	0	0	0	0	0	0	-0.34	-0.21	1	1	0	600	600	0
6/6/2024 9:54	24104	EHAZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 9:54	24102	EHAZ_T1	0	5	5	0	0.77	0.77	0	0	0	0	0	0	0	0
6/6/2024 9:54	67605	WARW_T1	0	0	0	0	0	0	-1.38	-1.35	0	0	0	0	0	0
6/6/2024 9:54	24105	EHAZ_T1	4	4	0	5.53	5.43	-0.1	0	0	0	0	0	0	0	0
6/6/2024 9:55	45902	AUBU_T1	0	0	0	0	0	0	-0.34	-0.21	1	1	0	600	600	0
6/6/2024 9:56	45902	AUBU_T1	0	0	0	0	0	0	-0.34	-0.21	1	1	0	600	600	0
6/6/2024 9:58	21203	ECAR_T1	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
6/6/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.16	0.25	0	0	0	0	0	0
6/6/2024 10:00	53502	EVIL_T2	1	2	1	0.3	0.1	-0.2	0.06	0.04	2	2	0	1200	1200	0
6/6/2024 10:00	42203	SHEN_T2	0	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0
6/6/2024 10:00	53501	EVIL_T2	3	3	0	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
6/6/2024 10:00	41902	REED_T1	0	0	0	0	0	0	0.93	0.99	2	2	0	1800	1800	0
6/6/2024 10:00	54201	PENN_T1	8	13	5	0.86	0.55	-0.31	0	0	0	0	0	0	0	0
6/6/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.52	0.54	2	2	0	1200	1200	0
6/6/2024 10:00	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 10:00	54203	PENN_T1	18	18	0	0.64	0.66	0.02	0.67	0.66	0	0	0	0	0	0
6/6/2024 10:00	15203	SFAR_T2	0	0	0	0	0	0	-0.81	-0.79	0	0	0	0	0	0
6/6/2024 10:00	67801	WLAN_T1	0	0	0	0	0	0	0.5	0.56	0	0	0	0	0	0
6/6/2024 10:00	40505	CRES_T1	3	3	0	2.97	2.9	-0.07	0.67	0.69	0	0	0	0	0	0
6/6/2024 10:00	67502	WEWI_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
6/6/2024 10:00	67805	WLAN_T1	0	0	0	0	0	0	-0.62	-0.59	0	0	0	0	0	0
6/6/2024 10:06	67602	WARW_T2	0	0	0	0	0	0	0.05	0	2	2	0	1500	1500	0
6/6/2024 10:08	45501	DERR_T2	1	1	0	0.7	0.7	0	1.11	1.04	2	2	0	1800	1800	0
6/6/2024 10:08	67602	WARW_T2	0	0	0	0	0	0	0.05	0	2	2	0	1500	1500	0
6/6/2024 10:08	20403	ASHF_T2	3	2	-1	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
6/6/2024 10:08	67605	WARW_T1	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
6/6/2024 10:08	20401	ASHF_T2	2	1	-1	0.3	0.2	-0.1	0.28	0.28	0	0	0	0	0	0
6/6/2024 10:09	10801	CHHI_T1	2	0	-2	0.15	0	-0.15	-0.98	-0.97	2	2	0	1500	1500	0
6/6/2024 10:09	20403	ASHF_T2	3	2	-1	0.23	0.15	-0.08	0.66	0.68	0	0	0	0	0	0
6/6/2024 10:09	46206	DANV_T2	31	9	-22	0.61	1.4	0.79	3.21	3.37	1	1	0	1200	1200	0
6/6/2024 10:09	67602	WARW_T2	0	0	0	0	0	0	0.05	0	2	2	0	1500	1500	0
6/6/2024 10:09	67605	WARW_T1	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
6/6/2024 10:09	20401	ASHF_T2	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/6/2024 10:10	45902	AUBU_T1	0	0	0	0	0	0	-0.21	-0.21	1	1	0	600	600	0
6/6/2024 10:10	67605	WARW_T1	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
6/6/2024 10:10	67605	WARW_T1	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
6/6/2024 10:10	67605	WARW_T1	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
6/6/2024 10:10	67605	WARW_T1	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
6/6/2024 10:11	46206	DANV_T2	31	9	-22	0.61	1.4	0.79	3.21	3.37	1	1	0	1200	1200	0
6/6/2024 10:11	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 10:11	45902	AUBU_T1	0	0	0	0	0	0	-0.21	-0.21	1	1	0	600	600	0
6/6/2024 10:12	45902	AUBU_T1	0	0	0	0	0	0	-0.21	-0.21	1	1	0	600	600	0
6/6/2024 10:12	63304	GREE_T1	0	0	0	0	0	0	-1.24	-1.21	0	0	0	0	0	0
6/6/2024 10:13	46206	DANV_T2	31	9	-22	0.61	1.4	0.79	3.21	3.37	1	1	0	1200	1200	0
6/6/2024 10:14	10805	CHHI_T2	6	4	-2	0.53	0.4	-0.13	-0.54	-0.2	1	1	0	600	600	0
6/6/2024 10:14	64204	KINZ_T1	1	1	0	0.9	1.4	0.5	0	0	0	0	0	0	0	0
6/6/2024 10:14	45602	WOOL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 10:14	45601	WOOL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
6/6/2024 10:14	64902	MILL_T2	0	0	0	0	0	0	0.23	0.21	1	1	0	900	900	0
6/6/2024 10:14	64203	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0.14	3	3	0	2100	2100	0
6/6/2024 10:14	63304	GREE_T1	0	0	0	0	0	0	-1.24	-1.21	0	0	0	0	0	0
6/6/2024 10:15	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/6/2024 10:16	59302	MCAL_T1	0	0	0	0	0	0	-0.53	-0.56	1	1	0	600	600	0
6/6/2024 10:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 10:16	64902	MILL_T2	0	0	0	0	0	0	0.23	0.21	1	1	0	900	900	0
6/6/2024 10:17	56802	BENV_T2	1	1	0	0.3	0.3	0	-0.9	-0.87	0	0	0	0	0	0
6/6/2024 10:17	64902	MILL_T1	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
6/6/2024 10:18	24204	PROV_T3	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
6/6/2024 10:18	24201	PROV_T3	1	2	1	6.8	6.9	0.1	-2.05	-2.02	2	2	0	2400	2400	0
6/6/2024 10:18	48302	ORWI_T2	2	1	-1	0.35	0.5	0.15	-0.25	-0.28	0	0	0	0	0	0
6/6/2024 10:18	56802	BENV_T2	1	1	0	0.3	0.3	0	-0.45	-0.43	0	0	0	0	0	0
6/6/2024 10:18	24205	PROV_T3	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
6/6/2024 10:18	52501	PROG_T1	0	0	0	0	0	0	2.18	2.25	2	2	0	600	600	0
6/6/2024 10:19	56801	BENV_T1	0	11	11	0	0.31	0.31	-0.48	-0.47	1	1	0	600	600	0
6/6/2024 10:19	56803	BENV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 10:19	56802	BENV_T2	1	1	0	0.3	0.3	0	-0.45	-0.43	0	0	0	0	0	0
6/6/2024 10:19	67204	TEHI_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
6/6/2024 10:20	56801	BENV_T1	0	11	11	0	0.31	0.31	-0.48	-0.47	1	1	0	600	600	0
6/6/2024 10:20	56803	BENV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 10:21	56802	BENV_T2	1	1	0	0.3	0.3	0	-0.45	-0.43	0	0	0	0	0	0
6/6/2024 10:22	52501	PROG_T1	0	0	0	0	0	0	1.12	1.12	1	1	0	300	300	0
6/6/2024 10:22	67204	TEHI_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
6/6/2024 10:22	67702	WERN_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
6/6/2024 10:23	61102	BERK_T5	0	0	0	0	0	0	-0.47	-0.63	2	2	0	1200	1200	0
6/6/2024 10:24	45303	WBER_T2	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
6/6/2024 10:24	61102	BERK_T5	0	0	0	0	0	0	-0.94	-1.26	4	4	0	2400	2400	0
6/6/2024 10:25	54505	ENOL_T2	1	1	0	0.2	0.2	0	-1.13	-1.12	1	1	0	600	600	0
6/6/2024 10:25	61102	BERK_T5	0	0	0	0	0	0	-1.89	-2.51	8	8	0	4800	4800	0
6/6/2024 10:26	54505	ENOL_T2	1	1	0	0.2	0.2	0	-1.13	-1.12	1	1	0	600	600	0
6/6/2024 10:27	23202	HIRU_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
6/6/2024 10:27	52403	GRPA_T2	0	2	2	0	0	0	0.79	0.84	0	0	0	0	0	0
6/6/2024 10:27	52402	GRPA_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
6/6/2024 10:27	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 10:27	45501	DERR_T2	1	1	0	0.8	0.7	-0.1	1.04	1.17	2	2	0	1800	1800	0
6/6/2024 10:30	62102	ELAN_T1	0	0	0	0	0	0	1.17	1.24	0	0	0	0	0	0
6/6/2024 10:31	23203	HIRU_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
6/6/2024 10:36	24902	WHHA_T1	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
6/6/2024 10:37	10102	ALLE_T2	1	1	0	7.9	7.3	-0.6	0	0	0	0	0	0	0	0
6/6/2024 10:37	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 10:38	16103	BING_T2	1	1	0	0.2	0	-0.2	-1.05	-1.03	1	1	0	900	900	0
6/6/2024 10:40	21203	ECAR_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
6/6/2024 10:40	45901	AUBU_T1	0	0	0	0	0	0	0.64	0.69	0	0	0	0	0	0
6/6/2024 10:42	23203	HIRU_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
6/6/2024 10:42	58003	WCAR_T1	1	2	1	1.3	0.7	-0.6	0.43	0.44	1	1	0	600	600	0
6/6/2024 10:42	58001	WCAR_T1	4	4	0	0.23	0.78	0.55	0	0	0	0	0	0	0	0
6/6/2024 10:46	58003	WCAR_T1	1	3	2	1.2	0.5	-0.7	0.43	0.44	1	1	0	600	600	0
6/6/2024 10:46	58001	WCAR_T1	4	4	0	0.53	0.78	0.25	0	0	0	0	0	0	0	0
6/6/2024 10:48	54201	PENN_T1	14	14	0	0.49	0.44	-0.05	-0.44	-0.48	0	0	0	0	0	0
6/6/2024 10:48	54203	PENN_T1	18	18	0	0.76	0.69	-0.07	0	0	0	0	0	0	0	0
6/6/2024 10:50	56803	BENV_T1	1	2	1	0.1	8.4	8.3	0	0	1	1	0	600	600	0
6/6/2024 10:50	56801	BENV_T1	6	9	3	0.2	0.49	0.29	0	0	0	0	0	0	0	0
6/6/2024 10:51	54203	PENN_T1	18	18	0	0.76	0.69	-0.07	0	0	0	0	0	0	0	0
6/6/2024 10:51	54201	PENN_T1	14	14	0	0.49	0.44	-0.05	-0.44	-0.48	0	0	0	0	0	0
6/6/2024 10:52	60201	ATGL_T2	0	0	0	0	0	0	0.45	0.5	2	2	0	900	900	0
6/6/2024 10:55	44301	BEAV_T2	0	1	1	0	0.3	0.3	0.3	0.58	4	4	0	3000	3000	0
6/6/2024 10:59	64704	LITI_T1	0	0	0	0	0	0	0.34	0.36	1	1	0	600	600	0
6/6/2024 10:59	54505	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/6/2024 10:59	54503	ENOL_T2	0	0	0	0	0	0	-1.53	-1.54	1	1	0	600	600	0
6/6/2024 11:00	58401	MORO_T1	0	0	0	0	0	0	0.1	0.15	0	0	0	0	0	0
6/6/2024 11:00	64704	LITI_T1	0	0	0	0	0	0	0.34	0.36	1	1	0	600	600	0
6/6/2024 11:01	58401	MORO_T1	0	0	0	0	0	0	0.1	0.15	0	0	0	0	0	0
6/6/2024 11:03	58401	MORO_T1	0	0	0	0	0	0	0.1	0.15	0	0	0	0	0	0
6/6/2024 11:03	44201	POIN_T1	0	25	25	0	0.16	0.16	-1.64	-2.1	2	2	0	2100	2100	0
6/6/2024 11:04	64101	REFR_T1	0	0	0	0	0	0	0.38	0.42	0	0	0	0	0	0
6/6/2024 11:05	64101	REFR_T1	0	0	0	0	0	0	0.38	0.42	0	0	0	0	0	0
6/6/2024 11:06	64101	REFR_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
6/6/2024 11:07	24901	WHHA_T1	0	0	0	0	0	0	1.04	1.03	0	0	0	0	0	0
6/6/2024 11:07	45701	LIND_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
6/6/2024 11:07	64101	REFR_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
6/6/2024 11:07	45702	LIND_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
6/6/2024 11:08	64101	REFR_T1	0	0	0	0	0	0	0.42	0.47	0	0	0	0	0	0
6/6/2024 11:09	55103	WERT_T1	1	1	0	4.8	3.5	-1.3	0	0	0	0	0	0	0	0
6/6/2024 11:09	55101	WERT_T1	0	0	0	0	0	0	-3.64	-3.7	8	8	0	6600	6600	0
6/6/2024 11:12	51101	CARL_T1	1	2	1	7.1	7.3	0.2	-0.65	-0.66	1	1	0	600	600	0
6/6/2024 11:13	54506	ENOL_T2	0	0	0	0	0	0	0.98	-0.25	1	0	-1	600	0	-600
6/6/2024 11:13	54505	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/6/2024 11:14	45003	LIME_2	1	1	0	2.6	2.9	0.3	0.58	0.58	0	0	0	0	0	0
6/6/2024 11:14	58402	MORO_T1	0	0	0	0	0	0	-0.76	-0.76	3	3	0	2400	2400	0
6/6/2024 11:14	45002	LIME_2	1	2	1	3.5	4	0.5	0	0	0	0	0	0	0	0
6/6/2024 11:15	63804	HEMP_T1	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
6/6/2024 11:15	45003	LIME_2	1	1	0	2.8	2.9	0.1	0.58	0.58	0	0	0	0	0	0
6/6/2024 11:15	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 11:15	63802	HEMP_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
6/6/2024 11:15	45002	LIME_2	1	1	0	3.7	4	0.3	0	0	0	0	0	0	0	0
6/6/2024 11:17	64204	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
6/6/2024 11:17	56801	BENV_T1	8	10	2	0.53	1.04	0.51	-0.77	-0.73	1	1	0	600	600	0
6/6/2024 11:17	58401	MORO_T1	0	0	0	0	0	0	0.3	-1.46	0	0	0	0	0	0
6/6/2024 11:17	58001	WCAR_T1	4	4	0	0.6	0.23	-0.37	1.12	1.11	0	0	0	0	0	0
6/6/2024 11:17	64201	KINZ_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
6/6/2024 11:17	58003	WCAR_T1	3	1	-2	0.4	0.8	0.4	0	0	0	0	0	0	0	0
6/6/2024 11:17	56803	BENV_T1	1	4	3	2.5	1.1	-1.4	0	0	0	0	0	0	0	0
6/6/2024 11:17	64203	KINZ_T1	1	1	0	0.2	0.1	-0.1	0.34	0.41	3	3	0	2100	2100	0
6/6/2024 11:18	56801	BENV_T1	8	10	2	0.53	1.04	0.51	-1.53	-1.45	2	2	0	1200	1200	0
6/6/2024 11:18	56803	BENV_T1	1	4	3	2.5	1.1	-1.4	0	0	0	0	0	0	0	0
6/6/2024 11:19	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 11:19	57401	SPAN_T1	0	1	1	0	0.1	0.1	-1.05	-1.01	1	1	0	600	600	0
6/6/2024 11:20	56803	BENV_T1	1	4	3	2.5	1.1	-1.4	0	0	0	0	0	0	0	0
6/6/2024 11:20	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 11:20	14801	TREI_T2	0	0	0	0	0	0	0.85	0.86	0	0	0	0	0	0
6/6/2024 11:20	57401	SPAN_T1	0	1	1	0	0.1	0.1	-1.05	-1.01	1	1	0	600	600	0
6/6/2024 11:20	56801	BENV_T1	8	10	2	0.53	1.04	0.51	-1.53	-1.45	2	2	0	1200	1200	0
6/6/2024 11:21	56801	BENV_T1	8	10	2	0.53	1.04	0.51	-1.53	-1.45	2	2	0	1200	1200	0
6/6/2024 11:21	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 11:21	57401	SPAN_T1	0	1	1	0	0.1	0.1	-3.16	-3.04	3	3	0	1800	1800	0
6/6/2024 11:21	56803	BENV_T1	1	4	3	2.5	1.1	-1.4	0	0	0	0	0	0	0	0
6/6/2024 11:21	43201	MVIL_T2	0	0	0	0	0	0	-1.2	-1.19	0	0	0	0	0	0
6/6/2024 11:22	56801	BENV_T1	8	10	2	0.53	1.04	0.51	-0.73	-0.84	1	1	0	600	600	0
6/6/2024 11:22	56803	BENV_T1	1	4	3	2.5	1.1	-1.4	0	0	0	0	0	0	0	0
6/6/2024 11:22	57404	SPAN_T2	0	0	0	0	0	0	0.22	0.22	1	1	0	1200	1200	0
6/6/2024 11:23	45502	DERR_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
6/6/2024 11:23	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 11:23	40201	BEGA_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/6/2024 11:23	57401	SPAN_T1	0	1	1	0	0.1	0.1	-2.03	-1.79	2	2	0	1200	1200	0
6/6/2024 11:23	45501	DERR_T2	1	2	1	0.7	1	0.3	0	0	0	0	0	0	0	0
6/6/2024 11:24	66703	STRA_T1	0	0	0	0	0	0	0.57	0.7	0	0	0	0	0	0
6/6/2024 11:24	57401	SPAN_T1	0	1	1	0	0.1	0.1	-1.01	-0.89	1	1	0	600	600	0
6/6/2024 11:24	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 11:24	45501	DERR_T2	1	2	1	0.7	1	0.3	1.32	1.28	2	2	0	1800	1800	0
6/6/2024 11:24	43301	WATS_T2	1	3	2	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/6/2024 11:24	43304	WATS_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
6/6/2024 11:24	57004	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 11:28	10801	CHHI_T1	1	0	-1	0.1	0	-0.1	-1.45	-1.29	3	3	0	2100	2100	0
6/6/2024 11:28	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/6/2024 11:29	58402	MORO_T1	0	0	0	0	0	0	-0.76	-0.75	3	3	0	2400	2400	0
6/6/2024 11:30	59101	WALK_T2	0	0	0	0	0	0	1.97	2.34	0	0	0	0	0	0
6/6/2024 11:32	52001	LING_T1	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
6/6/2024 11:33	43108	SMIL_T2	0	0	0	0	0	0	-0.39	-0.37	1	1	0	1200	1200	0
6/6/2024 11:33	44201	POIN_T1	24	58	34	0.15	0.16	0.01	-2.19	-2.21	2	2	0	2100	2100	0
6/6/2024 11:33	43105	SMIL_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/6/2024 11:33	43101	SMIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/6/2024 11:33	52004	LING_T2	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
6/6/2024 11:34	44201	POIN_T1	24	58	34	0.15	0.16	0.01	-2.19	-2.21	2	2	0	2100	2100	0
6/6/2024 11:35	44201	POIN_T1	24	58	34	0.15	0.16	0.01	-2.19	-2.21	2	2	0	2100	2100	0
6/6/2024 11:36	59101	WALK_T2	0	0	0	0	0	0	5.92	7.03	0	0	0	0	0	0
6/6/2024 11:36	43201	MVIL_T2	0	0	0	0	0	0	-1.19	-1.19	0	0	0	0	0	0
6/6/2024 11:37	12801	MICK_T1	0	0	0	0	0	0	-0.29	-0.29	1	1	0	600	600	0
6/6/2024 11:37	59101	WALK_T2	0	0	0	0	0	0	2.34	1.81	0	1	1	0	600	600
6/6/2024 11:37	12801	MICK_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/6/2024 11:37	60201	ATGL_T2	0	0	0	0	0	0	0.26	0.37	2	2	0	900	900	0
6/6/2024 11:38	40201	BEGA_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
6/6/2024 11:38	16102	BING_T2	0	0	0	0	0	0	-0.23	-0.22	1	1	0	1200	1200	0
6/6/2024 11:40	40201	BEGA_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
6/6/2024 11:41	59101	WALK_T2	0	0	0	0	0	0	4.69	3.62	0	2	2	0	1200	1200
6/6/2024 11:41	40201	BEGA_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
6/6/2024 11:42	52404	GRPA_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
6/6/2024 11:42	45802	HEGI_T2	1	21	20	0.1	0.52	0.42	0.24	-0.15	1	2	1	900	1200	300
6/6/2024 11:42	52403	GRPA_T2	0	7	7	0	0.32	0.32	0.42	0.44	0	0	0	0	0	0
6/6/2024 11:42	52402	GRPA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/6/2024 11:43	52404	GRPA_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
6/6/2024 11:43	52402	GRPA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/6/2024 11:43	52403	GRPA_T2	0	7	7	0	0.32	0.32	0	0	0	0	0	0	0	0
6/6/2024 11:44	67703	WERN_T2	0	0	0	0	0	0	-0.29	-0.18	1	1	0	900	900	0
6/6/2024 11:45	58402	MORO_T1	0	0	0	0	0	0	-0.75	-0.75	3	3	0	2400	2400	0
6/6/2024 11:45	67702	WERN_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
6/6/2024 11:45	58401	MORO_T1	0	13	13	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 11:46	45802	HEGI_T2	12	10	-2	0.38	0.52	0.14	0.24	-0.15	1	2	1	900	1200	300
6/6/2024 11:47	67702	WERN_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
6/6/2024 11:47	67703	WERN_T2	0	0	0	0	0	0	-0.58	-0.36	2	2	0	1800	1800	0
6/6/2024 11:48	54201	PENN_T1	3	11	8	0.9	0.48	-0.42	0	0	0	0	0	0	0	0
6/6/2024 11:48	54203	PENN_T1	18	18	0	0.26	0.71	0.45	0.79	0.77	0	0	0	0	0	0
6/6/2024 11:48	44201	POIN_T1	25	58	33	0.19	0.16	-0.03	-4.42	-4.59	4	4	0	4200	4200	0
6/6/2024 11:48	66502	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/6/2024 11:48	66504	SMAN_T2	0	0	0	0	0	0	-1.61	-1.33	2	2	0	2400	2400	0
6/6/2024 11:49	66502	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/6/2024 11:49	66504	SMAN_T2	0	0	0	0	0	0	-0.81	-0.66	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/6/2024 11:49	44201	POIN_T1	25	58	33	0.19	0.16	-0.03	-2.21	-2.3	2	2	0	2100	2100	0
6/6/2024 11:49	55002	NEWP_T1	2	1	-1	0.55	0.4	-0.15	-0.27	-0.26	0	0	0	0	0	0
6/6/2024 11:51	67204	TEHI_T2	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
6/6/2024 11:51	55002	NEWP_T1	2	1	-1	0.55	0.4	-0.15	-0.14	-0.13	0	0	0	0	0	0
6/6/2024 11:52	55002	NEWP_T1	2	1	-1	0.55	0.4	-0.15	-0.13	-0.13	0	0	0	0	0	0
6/6/2024 11:53	67703	WERN_T2	0	0	0	0	0	0	-0.18	-0.09	1	1	0	900	900	0
6/6/2024 11:53	67204	TEHI_T2	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
6/6/2024 11:54	43801	SWIL_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
6/6/2024 11:54	65901	SAKR_T2	1	1	0	7.4	7.9	0.5	-0.56	-0.63	2	2	0	1500	1500	0
6/6/2024 11:54	67703	WERN_T2	0	0	0	0	0	0	-0.18	-0.09	1	1	0	900	900	0
6/6/2024 11:54	43802	SWIL_T1	0	0	0	0	0	0	0.11	0.12	1	1	0	600	600	0
6/6/2024 11:55	67703	WERN_T2	0	0	0	0	0	0	-0.18	-0.09	1	1	0	900	900	0
6/6/2024 11:56	67702	WERN_T2	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
6/6/2024 11:58	67703	WERN_T2	0	0	0	0	0	0	-0.18	-0.09	1	1	0	900	900	0
6/6/2024 11:58	64402	LAND_T2	0	0	0	0	0	0	0.04	-0.05	1	1	0	600	600	0
6/6/2024 11:59	63402	HONY_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/6/2024 11:59	63403	HONY_T2	0	0	0	0	0	0	-0.05	-0.01	1	1	0	600	600	0
6/6/2024 12:00	53903	HALI_T2	3	7	4	1	0.89	-0.11	0.02	0.02	0	0	0	0	0	0
6/6/2024 12:00	53902	HALI_T2	2	1	-1	2.5	5.3	2.8	0	0	0	0	0	0	0	0
6/6/2024 12:00	61506	EPET_T2	0	0	0	0	0	0	-1.37	-1.31	2	2	0	1800	1800	0
6/6/2024 12:00	61501	EPET_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
6/6/2024 12:01	53902	HALI_T2	2	1	-1	2.5	5.3	2.8	0	0	0	0	0	0	0	0
6/6/2024 12:01	53903	HALI_T2	3	7	4	1	0.89	-0.11	0.02	0.02	0	0	0	0	0	0
6/6/2024 12:02	50506	MECH_T1	0	0	0	0	0	0	0.3	0.38	1	1	0	900	900	0
6/6/2024 12:02	50501	MECH_T1	4	4	0	0.78	0.58	-0.2	-0.09	-0.03	0	0	0	0	0	0
6/6/2024 12:02	50502	MECH_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
6/6/2024 12:02	43301	WATS_T2	3	2	-1	0.33	0.5	0.17	-0.31	-0.29	1	1	0	900	900	0
6/6/2024 12:03	53902	HALI_T2	2	1	-1	2.5	5.3	2.8	-0.58	-0.57	0	0	0	0	0	0
6/6/2024 12:03	53903	HALI_T2	3	7	4	1	0.89	-0.11	0	0	0	0	0	0	0	0
6/6/2024 12:03	50502	MECH_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
6/6/2024 12:03	50506	MECH_T1	0	0	0	0	0	0	0.3	0.38	1	1	0	900	900	0
6/6/2024 12:03	50501	MECH_T1	4	4	0	0.78	0.58	-0.2	0	0	0	0	0	0	0	0
6/6/2024 12:04	43105	SMIL_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/6/2024 12:04	43108	SMIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/6/2024 12:04	43102	SMIL_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	600	600	0
6/6/2024 12:05	53903	HALI_T2	3	7	4	1	0.89	-0.11	0.02	0.02	0	0	0	0	0	0
6/6/2024 12:05	53902	HALI_T2	2	1	-1	2.5	5.3	2.8	0	0	0	0	0	0	0	0
6/6/2024 12:06	50701	SMEC_T1	0	1	1	0	0.4	0.4	-0.01	-0.05	1	1	0	1200	1200	0
6/6/2024 12:07	20401	ASHF_T2	4	5	1	0.58	1.35	0.77	0	0	0	0	0	0	0	0
6/6/2024 12:07	67702	WERN_T2	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
6/6/2024 12:07	20403	ASHF_T2	1	1	0	0.3	0	-0.3	0.87	0.72	0	0	0	0	0	0
6/6/2024 12:08	43108	SMIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/6/2024 12:08	50701	SMEC_T1	0	1	1	0	0.4	0.4	-0.05	-0.04	1	1	0	1200	1200	0
6/6/2024 12:08	10805	CHHI_T2	4	19	15	2.88	2.8	-0.08	-0.97	-0.75	2	2	0	1200	1200	0
6/6/2024 12:08	43102	SMIL_T2	0	0	0	0	0	0	-0.49	-0.48	1	1	0	600	600	0
6/6/2024 12:08	67703	WERN_T2	0	0	0	0	0	0	-0.09	-0.16	1	1	0	900	900	0
6/6/2024 12:08	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 12:08	43105	SMIL_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/6/2024 12:08	67702	WERN_T2	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
6/6/2024 12:09	60101	COCA_T1	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
6/6/2024 12:09	67703	WERN_T2	0	0	0	0	0	0	-0.09	-0.16	1	1	0	900	900	0
6/6/2024 12:10	24104	EHAZ_T1	0	1	1	0	0.1	0.1	-0.63	-0.63	1	1	0	1200	1200	0
6/6/2024 12:10	24105	EHAZ_T1	4	4	0	6.05	5.8	-0.25	0	0	0	0	0	0	0	0
6/6/2024 12:10	24101	EHAZ_T1	32	27	-5	0.93	0.56	-0.37	0	0	0	0	0	0	0	0
6/6/2024 12:10	67702	WERN_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
6/6/2024 12:10	24102	EHAZ_T1	2	2	0	1.5	0.4	-1.1	0	0	0	0	0	0	0	0
6/6/2024 12:10	67703	WERN_T2	0	0	0	0	0	0	-0.09	-0.16	1	1	0	900	900	0
6/6/2024 12:11	60903	DONG_T2	1	0	-1	2.5	0	-2.5	0	0	0	0	0	0	0	0
6/6/2024 12:11	20403	ASHF_T2	1	1	0	0.3	0	-0.3	0.87	0.72	0	0	0	0	0	0
6/6/2024 12:11	60902	DONG_T2	0	0	0	0	0	0	1.27	1.27	0	0	0	0	0	0
6/6/2024 12:11	67703	WERN_T2	0	0	0	0	0	0	-0.09	-0.16	1	1	0	900	900	0
6/6/2024 12:11	20401	ASHF_T2	4	5	1	0.58	1.35	0.77	0	0	0	0	0	0	0	0
6/6/2024 12:12	10801	CHHI_T1	0	0	0	0	0	0	-1.34	-1.26	2	2	0	1500	1500	0
6/6/2024 12:12	60101	COCA_T1	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
6/6/2024 12:12	40801	EXCH_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
6/6/2024 12:12	40802	EXCH_T2	1	1	0	0.2	0.4	0.2	-0.39	-0.41	0	0	0	0	0	0
6/6/2024 12:13	40801	EXCH_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
6/6/2024 12:13	40802	EXCH_T2	1	1	0	0.2	0.4	0.2	-0.78	-0.82	0	0	0	0	0	0
6/6/2024 12:14	46506	LOHA_T1	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
6/6/2024 12:15	45002	LIME_2	1	1	0	4.1	4.1	0	0	0	0	0	0	0	0	0
6/6/2024 12:15	42903	MIDD_T2	3	2	-1	1.1	0.5	-0.6	0.09	1.21	1	0	-1	1200	0	-1200
6/6/2024 12:15	45003	LIME_2	3	2	-1	1.33	1.6	0.27	0.59	0.61	0	0	0	0	0	0
6/6/2024 12:15	42902	MIDD_T2	2	0	-2	0.2	0	-0.2	0.23	0.02	0	0	0	0	0	0
6/6/2024 12:15	49803	UNIV_T1	0	1	1	0	1.3	1.3	-0.53	-0.52	0	0	0	0	0	0
6/6/2024 12:15	45702	LIND_T2	1	1	0	1.2	1.2	0	-0.21	-0.2	0	0	0	0	0	0
6/6/2024 12:15	49804	UNIV_T1	0	0	0	0	0	0	1.7	1.85	0	0	0	0	0	0
6/6/2024 12:16	56501	ROCK_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
6/6/2024 12:16	56503	ROCK_T2	0	0	0	0	0	0	-1.12	-1.09	1	1	0	1200	1200	0
6/6/2024 12:16	63401	HONY_T1	0	0	0	0	0	0	1.05	0.94	2	2	0	1200	1200	0
6/6/2024 12:16	43301	WATS_T2	1	1	0	0.5	0.2	-0.3	-0.58	0.7	2	2	0	1800	1800	0
6/6/2024 12:17	46506	LOHA_T1	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
6/6/2024 12:17	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 12:17	56801	BENV_T1	6	19	13	0.57	0.82	0.25	-0.76	-0.7	1	1	0	600	600	0
6/6/2024 12:17	56803	BENV_T1	3	4	1	0.97	0.47	-0.5	0	0	0	0	0	0	0	0
6/6/2024 12:18	56801	BENV_T1	6	19	13	0.57	0.82	0.25	-0.76	-0.7	1	1	0	600	600	0
6/6/2024 12:18	56803	BENV_T1	3	4	1	0.97	0.47	-0.5	0	0	0	0	0	0	0	0
6/6/2024 12:19	56803	BENV_T1	3	4	1	0.97	0.47	-0.5	0	0	0	0	0	0	0	0
6/6/2024 12:19	43301	WATS_T2	1	1	0	0.5	0.2	-0.3	-0.29	0.35	1	1	0	900	900	0
6/6/2024 12:19	56801	BENV_T1	6	19	13	0.57	0.82	0.25	-2.28	-2.09	3	3	0	1800	1800	0
6/6/2024 12:20	64802	MONE_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
6/6/2024 12:20	42802	SELI_T1	0	0	0	0	0	0	-3.01	-2.73	2	2	0	1800	1800	0
6/6/2024 12:20	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 12:20	56803	BENV_T1	3	4	1	0.97	0.47	-0.5	0	0	0	0	0	0	0	0
6/6/2024 12:20	56801	BENV_T1	6	19	13	0.57	0.82	0.25	-2.28	-2.09	3	3	0	1800	1800	0
6/6/2024 12:20	57001	WHHI_T2	0	0	0	0	0	0	-0.93	0.34	1	1	0	900	900	0
6/6/2024 12:21	67702	WERN_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
6/6/2024 12:22	45902	AUBU_T1	0	0	0	0	0	0	-0.52	-0.48	2	2	0	1200	1200	0
6/6/2024 12:22	48302	ORWI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/6/2024 12:23	56801	BENV_T1	6	19	13	0.57	0.82	0.25	-0.7	-0.63	1	1	0	600	600	0
6/6/2024 12:23	56803	BENV_T1	3	4	1	0.97	0.47	-0.5	0	0	0	0	0	0	0	0
6/6/2024 12:24	45902	AUBU_T1	0	0	0	0	0	0	-0.26	-0.24	1	1	0	600	600	0
6/6/2024 12:24	60801	BUCK_T1	0	0	0	0	0	0	0.54	-0.53	1	1	0	600	600	0
6/6/2024 12:25	27502	WEIS_T2	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
6/6/2024 12:25	24902	WHHA_T1	0	0	0	0	0	0	1.2	1.17	0	0	0	0	0	0
6/6/2024 12:26	51101	CARL_T1	1	1	0	7.1	7.1	0	-0.48	-0.6	1	1	0	600	600	0
6/6/2024 12:28	41301	FISH_T1	3	3	0	0.63	1.17	0.54	-0.42	-0.41	0	0	0	0	0	0
6/6/2024 12:28	41303	FISH_T1	1	1	0	1.8	2.4	0.6	0	0	0	0	0	0	0	0
6/6/2024 12:29	41301	FISH_T1	3	3	0	0.63	1.17	0.54	-0.42	-0.41	0	0	0	0	0	0
6/6/2024 12:29	41303	FISH_T1	1	1	0	1.8	2.4	0.6	0	0	0	0	0	0	0	0
6/6/2024 12:29	45003	LIME_2	3	2	-1	1.33	1.6	0.27	0.61	0.62	0	0	0	0	0	0
6/6/2024 12:29	45002	LIME_2	1	1	0	4.1	4.1	0	0	0	0	0	0	0	0	0
6/6/2024 12:30	54505	ENOL_T2	1	1	0	0.4	0.1	-0.3	-1.01	-0.99	1	1	0	600	600	0
6/6/2024 12:30	54502	ENOL_T2	5	0	-5	9.42	0	-9.42	0	0	0	0	0	0	0	0
6/6/2024 12:30	63804	HEMP_T1	1	1	0	6.9	7.3	0.4	-0.05	0	0	0	0	0	0	0
6/6/2024 12:30	45602	WOOL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 12:31	44502	HAMI_T2	1	1	0	1.3	1.2	-0.1	-0.43	-0.42	0	0	0	0	0	0
6/6/2024 12:32	26401	INOR_T1	1	1	0	8.4	7.6	-0.8	0.73	0.93	0	0	0	0	0	0
6/6/2024 12:33	56803	BENV_T1	4	3	-1	1.03	0.45	-0.58	0	0	0	0	0	0	0	0
6/6/2024 12:33	45003	LIME_2	2	3	1	1.6	2.4	0.8	0	0	0	0	0	0	0	0
6/6/2024 12:33	45002	LIME_2	1	1	0	4.1	3.6	-0.5	-0.07	-0.06	0	0	0	0	0	0
6/6/2024 12:33	65501	MOJO_T1	0	0	0	0	0	0	-1.71	-1.66	2	2	0	1800	1800	0
6/6/2024 12:33	56801	BENV_T1	18	9	-9	0.83	0.89	0.06	-0.7	-0.63	1	1	0	600	600	0
6/6/2024 12:33	56802	BENV_T2	0	4	4	0	0.3	0.3	-0.33	-0.34	0	0	0	0	0	0
6/6/2024 12:34	43105	SMIL_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/6/2024 12:34	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 12:34	43104	SMIL_T2	0	0	0	0	0	0	-0.53	-0.52	1	1	0	300	300	0
6/6/2024 12:34	56801	BENV_T1	18	9	-9	0.83	0.89	0.06	-1.39	-1.26	2	2	0	1200	1200	0
6/6/2024 12:34	56803	BENV_T1	4	3	-1	1.03	0.45	-0.58	0	0	0	0	0	0	0	0
6/6/2024 12:35	56801	BENV_T1	18	9	-9	0.83	0.89	0.06	-1.39	-1.26	2	2	0	1200	1200	0
6/6/2024 12:35	56803	BENV_T1	4	3	-1	1.03	0.45	-0.58	0	0	0	0	0	0	0	0
6/6/2024 12:35	57401	SPAN_T1	0	1	1	0	0.3	0.3	-1.02	-0.92	1	1	0	600	600	0
6/6/2024 12:36	24801	VALM_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
6/6/2024 12:36	56803	BENV_T1	4	3	-1	1.03	0.45	-0.58	0	0	0	0	0	0	0	0
6/6/2024 12:36	56801	BENV_T1	18	9	-9	0.83	0.89	0.06	-2.09	-1.89	3	3	0	1800	1800	0
6/6/2024 12:37	56802	BENV_T2	0	4	4	0	0.3	0.3	-0.34	-0.35	0	0	0	0	0	0
6/6/2024 12:37	67804	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 12:37	65803	RTWN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/6/2024 12:37	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 12:37	65802	RTWN_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
6/6/2024 12:37	67805	WLAN_T1	0	0	0	0	0	0	-0.35	-0.3	0	0	0	0	0	0
6/6/2024 12:37	43105	SMIL_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/6/2024 12:37	43104	SMIL_T2	0	0	0	0	0	0	-0.52	-0.51	1	1	0	300	300	0
6/6/2024 12:38	43108	SMIL_T2	0	1	1	0	0	0	-0.85	-0.31	1	1	0	1200	1200	0
6/6/2024 12:38	43104	SMIL_T2	0	0	0	0	0	0	-0.52	-0.51	1	1	0	300	300	0
6/6/2024 12:38	67803	WLAN_T1	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
6/6/2024 12:38	43105	SMIL_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/6/2024 12:38	67804	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 12:39	24801	VALM_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
6/6/2024 12:39	44301	BEAV_T2	1	4	3	0.2	0.2	0	0.2	0.34	2	2	0	1500	1500	0
6/6/2024 12:40	61502	EPET_T1	0	0	0	0	0	0	-2.04	-2.05	0	0	0	0	0	0
6/6/2024 12:41	54502	ENOL_T2	5	0	-5	9.42	0	-9.42	0	0	0	0	0	0	0	0
6/6/2024 12:41	54505	ENOL_T2	1	1	0	0.4	0.1	-0.3	-0.99	-0.96	1	1	0	600	600	0
6/6/2024 12:41	44301	BEAV_T2	1	4	3	0.2	0.2	0	0.2	0.34	2	2	0	1500	1500	0
6/6/2024 12:42	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 12:42	16103	BING_T2	0	0	0	0	0	0	-1.42	-1.41	2	2	0	1500	1500	0
6/6/2024 12:43	17802	GILB_T1	0	1	1	0	0.2	0.2	0.51	0.39	0	0	0	0	0	0
6/6/2024 12:43	64204	KINZ_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/6/2024 12:43	64201	KINZ_T1	1	0	-1	0.6	0	-0.6	0.13	0.37	4	4	0	2100	2100	0
6/6/2024 12:43	64203	KINZ_T1	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
6/6/2024 12:44	63305	GREE_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/6/2024 12:44	63302	GREE_T1	0	0	0	0	0	0	0.09	0.25	0	0	0	0	0	0
6/6/2024 12:45	24702	FLND_T2	0	1	1	0	0.1	0.1	1	1.22	1	1	0	1200	1200	0
6/6/2024 12:45	17804	GILB_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/6/2024 12:45	45801	HEGI_T1	0	0	0	0	0	0	0.46	0.39	1	1	0	900	900	0
6/6/2024 12:46	49804	UNIV_T1	0	0	0	0	0	0	2.99	3.72	0	0	0	0	0	0
6/6/2024 12:46	17002	RIRO_T2	0	21	21	0	0.19	0.19	0.99	0.98	0	0	0	0	0	0
6/6/2024 12:46	42903	MIDD_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
6/6/2024 12:46	49803	UNIV_T1	1	1	0	1.3	0.6	-0.7	-3.49	-3.48	0	0	0	0	0	0
6/6/2024 12:46	42902	MIDD_T2	0	0	0	0	0	0	0.01	-0.03	0	0	0	0	0	0
6/6/2024 12:46	25503	MADI_T1	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
6/6/2024 12:47	58701	ROSE_T2	0	0	0	0	0	0	-1.14	-1.12	1	1	0	600	600	0
6/6/2024 12:47	58705	ROSE_T2	5	5	0	1.1	0.96	-0.14	0	0	0	0	0	0	0	0
6/6/2024 12:47	58706	ROSE_T2	1	1	0	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
6/6/2024 12:47	65001	NEFF_T2	0	0	0	0	0	0	0.31	0.46	1	1	0	1200	1200	0
6/6/2024 12:48	58202	NEWV_T1	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
6/6/2024 12:49	56803	BENV_T1	3	4	1	0.43	0.45	0.02	0	0	0	0	0	0	0	0
6/6/2024 12:49	56801	BENV_T1	9	8	-1	0.89	0.48	-0.41	-0.63	-0.56	1	1	0	600	600	0
6/6/2024 12:50	58202	NEWV_T1	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
6/6/2024 12:51	17002	RIRO_T2	0	21	21	0	0.19	0.19	0.98	1.08	0	0	0	0	0	0
6/6/2024 12:51	56801	BENV_T1	9	8	-1	0.89	0.48	-0.41	-1.26	-1.11	2	2	0	1200	1200	0
6/6/2024 12:51	56803	BENV_T1	3	4	1	0.43	0.45	0.02	0	0	0	0	0	0	0	0
6/6/2024 12:54	64904	MILL_T1	0	0	0	0	0	0	0.16	0.19	0	0	0	0	0	0
6/6/2024 12:54	60201	ATGL_T2	0	0	0	0	0	0	0.67	0.58	2	2	0	900	900	0
6/6/2024 12:54	60902	DONG_T2	2	2	0	0.2	0.2	0	1.27	1.26	0	0	0	0	0	0
6/6/2024 12:54	57004	WHHI_T2	0	0	0	0	0	0	0.1	0.15	0	0	0	0	0	0
6/6/2024 12:54	57006	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 12:56	53502	EVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/6/2024 12:56	53501	EVIL_T2	2	0	-2	0.1	0	-0.1	0.2	-0.05	3	3	0	1800	1800	0
6/6/2024 12:57	53502	EVIL_T2	0	1	1	0	0.4	0.4	-0.01	-0.01	2	2	0	1200	1200	0
6/6/2024 12:57	53501	EVIL_T2	2	0	-2	0.1	0	-0.1	0.4	-0.11	6	6	0	3600	3600	0
6/6/2024 12:58	44801	EDAN_T2	2	1	-1	0.8	2	1.2	0.86	0.85	0	0	0	0	0	0
6/6/2024 12:59	44801	EDAN_T2	2	1	-1	0.8	2	1.2	0.86	0.85	0	0	0	0	0	0
6/6/2024 12:59	56504	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/6/2024 12:59	56501	ROCK_T2	4	2	-2	0.13	0.7	0.57	-0.75	-0.72	0	0	0	0	0	0
6/6/2024 13:00	54506	ENOL_T2	0	0	0	0	0	0	-0.22	-0.07	1	0	-1	600	0	-600
6/6/2024 13:00	54505	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/6/2024 13:01	53502	EVIL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/6/2024 13:01	56504	ROCK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/6/2024 13:01	53501	EVIL_T2	0	1	1	0	0	0	0.2	-0.05	3	3	0	1800	1800	0
6/6/2024 13:01	56501	ROCK_T2	2	4	2	0.7	0.4	-0.3	-1.5	-1.44	0	0	0	0	0	0
6/6/2024 13:02	40101	HUNT_T2	2	7	5	0.45	0.28	-0.17	-0.21	-0.21	0	0	0	0	0	0
6/6/2024 13:02	52004	LING_T2	1	0	-1	0.1	0	-0.1	0.62	0.62	0	0	0	0	0	0
6/6/2024 13:02	56504	ROCK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/6/2024 13:02	52002	LING_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 13:02	56501	ROCK_T2	2	4	2	0.7	0.4	-0.3	-0.75	-0.72	0	0	0	0	0	0
6/6/2024 13:03	56803	BENV_T1	2	4	2	0.4	0.58	0.18	0	0	0	0	0	0	0	0
6/6/2024 13:03	56801	BENV_T1	8	7	-1	0.43	0.56	0.13	-1.11	-0.92	2	2	0	1200	1200	0
6/6/2024 13:04	53902	HALI_T2	4	3	-1	1.93	2.17	0.24	0	0	0	0	0	0	0	0
6/6/2024 13:04	56803	BENV_T1	2	4	2	0.4	0.58	0.18	0	0	0	0	0	0	0	0
6/6/2024 13:04	51002	NHAR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/6/2024 13:04	53901	HALI_T2	0	0	0	0	0	0	-0.61	-0.59	0	0	0	0	0	0
6/6/2024 13:04	56801	BENV_T1	8	7	-1	0.43	0.56	0.13	-1.67	-1.38	3	3	0	1800	1800	0
6/6/2024 13:04	53903	HALI_T2	10	9	-1	0.8	0.8	0	0	0	0	0	0	0	0	0
6/6/2024 13:04	51004	NHAR_T1	1	1	0	6.6	6.8	0.2	-1.14	-1.13	0	0	0	0	0	0
6/6/2024 13:05	56803	BENV_T1	2	4	2	0.4	0.58	0.18	0	0	0	0	0	0	0	0
6/6/2024 13:05	56801	BENV_T1	8	7	-1	0.43	0.56	0.13	-3.33	-2.76	6	6	0	3600	3600	0
6/6/2024 13:05	65004	NEFF_T2	0	0	0	0	0	0	-0.64	-0.63	1	1	0	600	600	0
6/6/2024 13:06	56801	BENV_T1	8	7	-1	0.43	0.56	0.13	-1.67	-1.38	3	3	0	1800	1800	0
6/6/2024 13:06	67502	WEWI_T2	1	1	0	0.3	0.4	0.1	-0.56	-0.56	1	1	0	900	900	0
6/6/2024 13:06	56803	BENV_T1	2	4	2	0.4	0.58	0.18	0	0	0	0	0	0	0	0
6/6/2024 13:07	56803	BENV_T1	2	4	2	0.4	0.58	0.18	0	0	0	0	0	0	0	0
6/6/2024 13:07	56801	BENV_T1	8	7	-1	0.43	0.56	0.13	-0.46	-0.58	1	1	0	600	600	0
6/6/2024 13:08	56801	BENV_T1	8	7	-1	0.43	0.56	0.13	-0.46	-0.58	1	1	0	600	600	0
6/6/2024 13:08	56803	BENV_T1	2	4	2	0.4	0.58	0.18	0	0	0	0	0	0	0	0
6/6/2024 13:09	44301	BEAV_T2	3	2	-1	0.17	0.15	-0.02	0.64	0.58	2	2	0	1500	1500	0
6/6/2024 13:10	46004	BERW_T2	0	0	0	0	0	0	0.77	0.78	0	0	0	0	0	0
6/6/2024 13:10	60201	ATGL_T2	0	0	0	0	0	0	0.58	0.59	2	2	0	900	900	0
6/6/2024 13:10	67502	WEWI_T2	1	1	0	0.3	0.4	0.1	-0.56	-0.56	1	1	0	900	900	0
6/6/2024 13:11	56501	ROCK_T2	2	4	2	0.7	0.4	-0.3	-0.72	-0.68	0	0	0	0	0	0
6/6/2024 13:11	45501	DERR_T2	5	2	-3	0.92	0.9	-0.02	1.23	1.21	2	2	0	1800	1800	0
6/6/2024 13:11	45502	DERR_T2	2	9	7	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/6/2024 13:11	56504	ROCK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/6/2024 13:12	46004	BERW_T2	0	0	0	0	0	0	0.77	0.78	0	0	0	0	0	0
6/6/2024 13:13	53501	EVIL_T2	0	1	1	0	0	0	-0.05	-0.1	3	3	0	1800	1800	0
6/6/2024 13:13	53502	EVIL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/6/2024 13:13	52403	GRPA_T2	2	5	3	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/6/2024 13:13	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 13:13	52402	GRPA_T2	1	1	0	0.2	0.7	0.5	-0.77	-0.76	0	0	0	0	0	0
6/6/2024 13:14	24701	FLND_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
6/6/2024 13:14	53501	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 13:14	24702	FLND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 13:14	53502	EVIL_T2	1	1	0	0.5	0.4	-0.1	-0.01	0.06	2	2	0	1200	1200	0
6/6/2024 13:15	52403	GRPA_T2	1	5	4	0.6	1.08	0.48	0	0	0	0	0	0	0	0
6/6/2024 13:15	52402	GRPA_T2	1	1	0	0.7	0.4	-0.3	-0.77	-0.76	0	0	0	0	0	0
6/6/2024 13:15	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 13:16	67502	WEWI_T2	1	1	0	0.4	0.5	0.1	-0.56	-0.56	1	1	0	900	900	0
6/6/2024 13:16	63401	HONY_T1	0	0	0	0	0	0	0.48	0.54	1	1	0	600	600	0
6/6/2024 13:17	56801	BENV_T1	4	8	4	0.48	0.61	0.13	-0.46	-0.58	1	1	0	600	600	0
6/6/2024 13:17	56803	BENV_T1	4	5	1	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
6/6/2024 13:17	40901	JESH_T1	1	1	0	1.9	2	0.1	-0.51	-0.52	1	1	0	900	900	0
6/6/2024 13:17	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 13:17	56501	ROCK_T2	2	4	2	0.4	0.37	-0.03	-0.72	-0.68	0	0	0	0	0	0
6/6/2024 13:17	56504	ROCK_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
6/6/2024 13:18	39601	LNID_T1	1	1	0	0.7	0.4	-0.3	0	0	1	1	0	900	900	0
6/6/2024 13:18	45602	WOOL_T1	2	3	1	1.2	0.1	-1.1	0	0	0	0	0	0	0	0
6/6/2024 13:18	56803	BENV_T1	4	5	1	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
6/6/2024 13:18	56801	BENV_T1	4	8	4	0.48	0.61	0.13	-0.92	-1.15	2	2	0	1200	1200	0
6/6/2024 13:18	40902	JESH_T1	0	0	0	0	0	0	-0.57	-0.34	2	2	0	1200	1200	0
6/6/2024 13:18	40901	JESH_T1	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
6/6/2024 13:19	43301	WATS_T2	0	0	0	0	0	0	-0.25	-0.26	1	1	0	900	900	0
6/6/2024 13:19	58003	WCAR_T1	1	5	4	1	0.52	-0.48	0.44	0.46	1	1	0	600	600	0
6/6/2024 13:19	54601	SUMM_T2	0	0	0	0	0	0	-1.36	-1.34	2	2	0	2100	2100	0
6/6/2024 13:19	58001	WCAR_T1	4	5	1	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
6/6/2024 13:19	56501	ROCK_T2	2	4	2	0.4	0.37	-0.03	-0.72	-0.68	0	0	0	0	0	0
6/6/2024 13:19	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 13:20	56801	BENV_T1	4	8	4	0.48	0.61	0.13	-0.46	-0.58	1	1	0	600	600	0
6/6/2024 13:20	55103	WERT_T1	1	1	0	3.8	4.4	0.6	0	0	0	0	0	0	0	0
6/6/2024 13:20	56803	BENV_T1	4	5	1	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
6/6/2024 13:20	54602	SUMM_T2	0	0	0	0	0	0	-2.05	-2.01	1	1	0	600	600	0
6/6/2024 13:20	55101	WERT_T1	0	0	0	0	0	0	-1.7	-1.68	4	4	0	3300	3300	0
6/6/2024 13:21	56801	BENV_T1	4	8	4	0.48	0.61	0.13	-0.46	-0.58	1	1	0	600	600	0
6/6/2024 13:21	56803	BENV_T1	4	5	1	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
6/6/2024 13:22	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 13:22	40302	TAMA_T3	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
6/6/2024 13:24	44301	BEAV_T2	2	2	0	0.15	0.2	0.05	0.58	0.57	2	2	0	1500	1500	0
6/6/2024 13:24	16401	MOPO_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
6/6/2024 13:24	45502	DERR_T2	9	0	-9	0.3	0	-0.3	0.06	-0.04	1	1	0	300	300	0
6/6/2024 13:24	16402	MOPO_T1	3	1	-2	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/6/2024 13:24	45501	DERR_T2	2	3	1	1.3	0.63	-0.67	0	0	0	0	0	0	0	0
6/6/2024 13:28	17805	GILB_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
6/6/2024 13:30	24105	EHAZ_T1	4	4	0	5.98	5.93	-0.05	0	0	0	0	0	0	0	0
6/6/2024 13:30	24104	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 13:30	17805	GILB_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
6/6/2024 13:30	24101	EHAZ_T1	18	35	17	0.63	0.75	0.12	0	0	0	0	0	0	0	0
6/6/2024 13:30	24102	EHAZ_T1	0	1	1	0	0.2	0.2	-0.4	-0.41	0	0	0	0	0	0
6/6/2024 13:32	52002	LING_T2	7	7	0	0.33	0	-0.33	1.19	1.28	0	0	0	0	0	0
6/6/2024 13:32	13502	MCMI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/6/2024 13:33	67801	WLAN_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
6/6/2024 13:34	43101	SMIL_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
6/6/2024 13:34	52003	LING_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/6/2024 13:34	43108	SMIL_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/6/2024 13:34	40902	JESH_T1	0	0	0	0	0	0	-0.34	-0.61	2	2	0	1200	1200	0
6/6/2024 13:34	52002	LING_T2	7	7	0	0.33	0	-0.33	0.59	0.64	0	0	0	0	0	0
6/6/2024 13:34	43104	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 13:34	43103	SMIL_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
6/6/2024 13:34	40901	JESH_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
6/6/2024 13:34	13503	MCMI_T2	0	98	98	0	0.28	0.28	0.28	-1.51	0	0	0	0	0	0
6/6/2024 13:34	43105	SMIL_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/6/2024 13:34	52001	LING_T1	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
6/6/2024 13:35	52002	LING_T2	7	7	0	0.33	0	-0.33	1.19	1.28	0	0	0	0	0	0
6/6/2024 13:35	67002	STHI_T2	0	0	0	0	0	0	1.37	1.38	0	0	0	0	0	0
6/6/2024 13:36	55103	WERT_T1	1	1	0	4.4	6.4	2	0	0	0	0	0	0	0	0
6/6/2024 13:36	41903	REED_T1	0	0	0	0	0	0	1.28	1.27	2	2	0	2400	2400	0
6/6/2024 13:36	55101	WERT_T1	0	0	0	0	0	0	-1.68	-1.45	4	4	0	3300	3300	0
6/6/2024 13:36	41902	REED_T1	16	15	-1	0.52	0.28	-0.24	0	0	0	0	0	0	0	0
6/6/2024 13:37	43101	SMIL_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
6/6/2024 13:37	43105	SMIL_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/6/2024 13:37	43104	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 13:37	43108	SMIL_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/6/2024 13:37	43103	SMIL_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
6/6/2024 13:38	50701	SMEC_T1	0	8	8	0	0.59	0.59	0.07	0.07	1	1	0	1200	1200	0
6/6/2024 13:38	13503	MCMI_T2	0	98	98	0	0.28	0.28	-0.76	0	0	0	0	0	0	0
6/6/2024 13:39	16406	MOPO_T1	0	0	0	0	0	0	-0.04	-0.16	1	1	0	1200	1200	0
6/6/2024 13:39	67901	WNHO_T2	0	0	0	0	0	0	-0.51	-0.55	2	2	0	2100	2100	0
6/6/2024 13:39	55105	WERT_T1	0	0	0	0	0	0	0.37	0.46	2	2	0	1800	1800	0
6/6/2024 13:39	55103	WERT_T1	1	1	0	4.4	6.4	2	0	0	0	0	0	0	0	0
6/6/2024 13:39	16402	MOPO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 13:41	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 13:41	20403	ASHF_T2	0	0	0	0	0	0	1.02	0.86	0	0	0	0	0	0
6/6/2024 13:41	20401	ASHF_T2	4	5	1	0.73	0.53	-0.2	0	0	0	0	0	0	0	0
6/6/2024 13:41	45501	DERR_T2	2	3	1	0.9	0.9	0	1.36	1.24	2	2	0	1800	1800	0
6/6/2024 13:42	61801	EELI_T2	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
6/6/2024 13:42	63401	HONY_T1	0	0	0	0	0	0	0.5	0.64	1	1	0	600	600	0
6/6/2024 13:42	61802	EELI_T2	8	4	-4	0.45	0.35	-0.1	-0.27	-0.22	0	0	0	0	0	0
6/6/2024 13:45	58402	MORO_T1	0	0	0	0	0	0	-0.54	-0.49	3	3	0	2400	2400	0
6/6/2024 13:45	61802	EELI_T2	4	7	3	0.43	0.35	-0.08	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/6/2024 13:45	61801	EELI_T2	1	1	0	1	1.2	0.2	-0.15	-0.13	1	1	0	600	600	0
6/6/2024 13:46	63804	HEMP_T1	1	1	0	7.4	7.5	0.1	0.05	0.06	0	0	0	0	0	0
6/6/2024 13:47	13503	MCMI_T2	98	1	-97	0.28	0.5	0.22	-0.76	0	0	0	0	0	0	0
6/6/2024 13:47	56801	BENV_T1	8	6	-2	0.54	0.3	-0.24	-1.06	-0.96	2	2	0	1200	1200	0
6/6/2024 13:47	56803	BENV_T1	2	4	2	1.05	2.5	1.45	0	0	0	0	0	0	0	0
6/6/2024 13:48	56803	BENV_T1	2	4	2	1.05	2.5	1.45	0	0	0	0	0	0	0	0
6/6/2024 13:48	46101	MACI_T2	0	0	0	0	0	0	-0.73	-1.09	2	2	0	2400	2400	0
6/6/2024 13:48	56801	BENV_T1	8	6	-2	0.54	0.3	-0.24	-0.53	-0.48	1	1	0	600	600	0
6/6/2024 13:49	56803	BENV_T1	2	4	2	1.05	2.5	1.45	0	0	0	0	0	0	0	0
6/6/2024 13:49	13503	MCMI_T2	98	1	-97	0.28	0.5	0.22	-0.76	0	0	0	0	0	0	0
6/6/2024 13:49	56801	BENV_T1	8	6	-2	0.54	0.3	-0.24	-0.53	-0.48	1	1	0	600	600	0
6/6/2024 13:49	52002	LING_T2	0	8	8	0	0.17	0.17	0.64	0.66	0	0	0	0	0	0
6/6/2024 13:50	15703	TANN_T2	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
6/6/2024 13:50	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 13:50	45602	WOOL_T1	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/6/2024 13:50	67904	WNHO_T1	0	0	0	0	0	0	-1.79	-1.78	2	2	0	2100	2100	0
6/6/2024 13:50	66503	SMAN_T2	0	0	0	0	0	0	0.96	0.95	0	0	0	0	0	0
6/6/2024 13:50	15702	TANN_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
6/6/2024 13:50	56803	BENV_T1	2	4	2	1.05	2.5	1.45	0	0	0	0	0	0	0	0
6/6/2024 13:50	56801	BENV_T1	8	6	-2	0.54	0.3	-0.24	-1.06	-0.96	2	2	0	1200	1200	0
6/6/2024 13:51	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 13:51	66504	SMAN_T2	0	0	0	0	0	0	-0.55	-0.6	1	1	0	1200	1200	0
6/6/2024 13:51	57002	WHHI_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
6/6/2024 13:52	67903	WNHO_T1	0	0	0	0	0	0	1.4	1.43	1	1	0	1200	1200	0
6/6/2024 13:53	15703	TANN_T2	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
6/6/2024 13:53	15702	TANN_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
6/6/2024 13:54	57006	WHHI_T2	0	0	0	0	0	0	0.48	0.51	1	1	0	600	600	0
6/6/2024 13:54	15702	TANN_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
6/6/2024 13:54	15703	TANN_T2	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
6/6/2024 13:55	45501	DERR_T2	3	3	0	0.63	0.9	0.27	1.24	1.28	2	2	0	1800	1800	0
6/6/2024 13:55	57006	WHHI_T2	0	0	0	0	0	0	0.48	0.51	1	1	0	600	600	0
6/6/2024 13:56	54505	ENOL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/6/2024 13:56	45501	DERR_T2	3	3	0	0.63	0.9	0.27	1.24	1.28	2	2	0	1800	1800	0
6/6/2024 13:56	41801	GOCI_T2	1	2	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
6/6/2024 13:56	54504	ENOL_T2	1	1	0	0.1	0.3	0.2	-0.77	-0.75	1	1	0	600	600	0
6/6/2024 13:57	57306	MOAL_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/6/2024 13:57	46801	HEPB_T2	0	2	2	0	1	1	0	0	0	0	0	0	0	0
6/6/2024 13:57	41801	GOCI_T2	1	2	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
6/6/2024 13:57	54504	ENOL_T2	1	1	0	0.1	0.3	0.2	-0.77	-0.75	1	1	0	600	600	0
6/6/2024 13:57	57302	MOAL_T2	0	0	0	0	0	0	-0.96	-0.94	1	1	0	1200	1200	0
6/6/2024 13:57	57303	MOAL_T2	1	1	0	7.2	7.5	0.3	0	0	0	0	0	0	0	0
6/6/2024 13:57	46803	HEPB_T2	1	2	1	0.7	0.55	-0.15	0.68	0.66	0	0	0	0	0	0
6/6/2024 13:57	54505	ENOL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/6/2024 13:58	46803	HEPB_T2	1	2	1	0.7	0.55	-0.15	0.68	0.66	0	0	0	0	0	0
6/6/2024 13:58	46801	HEPB_T2	0	2	2	0	1	1	0	0	0	0	0	0	0	0
6/6/2024 13:59	46801	HEPB_T2	0	2	2	0	1	1	0.23	0.23	0	0	0	0	0	0
6/6/2024 13:59	46803	HEPB_T2	1	2	1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
6/6/2024 13:59	45501	DERR_T2	3	3	0	0.63	0.9	0.27	1.24	1.28	2	2	0	1800	1800	0
6/6/2024 13:59	11804	FRAN_T1	11	36	25	0.67	0.4	-0.27	1.72	1.68	0	0	0	0	0	0
6/6/2024 14:00	46801	HEPB_T2	2	2	0	1	0.95	-0.05	0.23	0.23	0	0	0	0	0	0
6/6/2024 14:00	63804	HEMP_T1	1	1	0	7.5	7.6	0.1	0	0	0	0	0	0	0	0
6/6/2024 14:00	63801	HEMP_T1	0	0	0	0	0	0	-0.3	-0.35	1	1	0	900	900	0
6/6/2024 14:00	46803	HEPB_T2	2	1	-1	0.55	0.6	0.05	0	0	0	0	0	0	0	0
6/6/2024 14:00	64203	KINZ_T1	2	2	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
6/6/2024 14:00	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	0.68	0.65	1	1	0	900	900	0
6/6/2024 14:00	63802	HEMP_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
6/6/2024 14:00	64204	KINZ_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
6/6/2024 14:00	64201	KINZ_T1	0	0	0	0	0	0	0.14	0.29	4	4	0	2100	2100	0
6/6/2024 14:02	63803	HEMP_T1	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
6/6/2024 14:02	63804	HEMP_T1	1	1	0	7.5	7.6	0.1	0	0	0	0	0	0	0	0
6/6/2024 14:05	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 14:05	66503	SMAN_T2	0	0	0	0	0	0	0.95	1.06	0	0	0	0	0	0
6/6/2024 14:06	67605	WARW_T1	0	1	1	0	0.6	0.6	-0.74	-0.67	0	0	0	0	0	0
6/6/2024 14:06	13606	RICH_T2	3	3	0	3.1	3.33	0.23	1.52	1.63	0	0	0	0	0	0
6/6/2024 14:07	13704	SCHN_T2	0	2	2	0	0.6	0.6	0.49	0.51	0	0	0	0	0	0
6/6/2024 14:07	13701	SCHN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/6/2024 14:07	67605	WARW_T1	0	1	1	0	0.6	0.6	-0.74	-0.67	0	0	0	0	0	0
6/6/2024 14:08	42701	AUGU_T1	67	67	0	0.91	0.86	-0.05	0	0	0	0	0	0	0	0
6/6/2024 14:09	42701	AUGU_T1	67	67	0	0.91	0.86	-0.05	0	0	0	0	0	0	0	0
6/6/2024 14:09	45902	AUBU_T1	1	1	0	0.2	0.2	0	-1.01	-0.78	2	2	0	1200	1200	0
6/6/2024 14:09	46206	DANV_T2	25	39	14	0.71	0.76	0.05	3.26	3.24	1	1	0	1200	1200	0
6/6/2024 14:09	46204	DANV_T2	3	1	-2	0.57	0	-0.57	0	0	0	0	0	0	0	0
6/6/2024 14:10	10702	CATA_T2	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
6/6/2024 14:11	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/6/2024 14:11	42701	AUGU_T1	67	67	0	0.91	0.86	-0.05	0	0	0	0	0	0	0	0
6/6/2024 14:12	46206	DANV_T2	25	39	14	0.71	0.76	0.05	3.26	3.24	1	1	0	1200	1200	0
6/6/2024 14:12	46204	DANV_T2	3	1	-2	0.57	0	-0.57	0	0	0	0	0	0	0	0
6/6/2024 14:12	61801	EELI_T2	0	0	0	0	0	0	-0.1	-0.07	1	1	0	600	600	0
6/6/2024 14:12	41801	GOCI_T2	1	2	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
6/6/2024 14:13	40101	HUNT_T2	11	18	7	0.27	0.44	0.17	-0.1	-0.1	0	0	0	0	0	0
6/6/2024 14:13	64704	LITI_T1	0	0	0	0	0	0	0.96	0.71	1	1	0	600	600	0
6/6/2024 14:15	49804	UNIV_T1	0	0	0	0	0	0	1.73	1.6	0	0	0	0	0	0
6/6/2024 14:16	40101	HUNT_T2	16	59	43	0.41	0.59	0.18	-0.1	-0.1	0	0	0	0	0	0
6/6/2024 14:16	46801	HEPB_T2	2	2	0	0.95	0.8	-0.15	0.23	0.22	0	0	0	0	0	0
6/6/2024 14:16	46803	HEPB_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
6/6/2024 14:18	41204	KENM_T2	0	0	0	0	0	0	0.87	0.88	0	0	0	0	0	0
6/6/2024 14:19	41801	GOCI_T2	2	1	-1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
6/6/2024 14:20	43103	SMIL_T2	0	0	0	0	0	0	-0.4	-0.33	0	0	0	0	0	0
6/6/2024 14:20	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 14:20	43108	SMIL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 14:21	43108	SMIL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 14:21	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 14:21	43103	SMIL_T2	0	0	0	0	0	0	-0.98	-0.87	0	0	0	0	0	0
6/6/2024 14:22	67201	TEHI_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/6/2024 14:22	60803	BUCK_T1	0	0	0	0	0	0	-0.26	-0.26	1	1	0	600	600	0
6/6/2024 14:22	67203	TEHI_T1	1	2	1	0.5	0.85	0.35	1.62	1.61	4	4	0	3000	3000	0
6/6/2024 14:24	60102	COCA_T1	0	0	0	0	0	0	-0.81	-0.46	3	3	0	2100	2100	0
6/6/2024 14:24	42701	AUGU_T1	64	72	8	0.94	0.89	-0.05	0	0	0	0	0	0	0	0
6/6/2024 14:24	60803	BUCK_T1	0	0	0	0	0	0	-0.26	-0.26	1	1	0	600	600	0
6/6/2024 14:25	60803	BUCK_T1	0	0	0	0	0	0	-0.53	-0.52	2	2	0	1200	1200	0
6/6/2024 14:25	60301	TWVA_T2	0	0	0	0	0	0	-2.22	-2.24	3	3	0	2700	2700	0
6/6/2024 14:25	60801	BUCK_T1	0	0	0	0	0	0	-0.13	-0.15	1	1	0	600	600	0
6/6/2024 14:27	42701	AUGU_T1	64	72	8	0.94	0.89	-0.05	0	0	0	0	0	0	0	0
6/6/2024 14:27	54505	ENOL_T2	0	0	0	0	0	0	-0.83	-0.81	1	1	0	600	600	0
6/6/2024 14:28	41801	GOCI_T2	2	1	-1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
6/6/2024 14:28	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/6/2024 14:29	44502	HAMI_T2	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
6/6/2024 14:29	40101	HUNT_T2	16	59	43	0.41	0.59	0.18	-0.1	-0.09	0	0	0	0	0	0
6/6/2024 14:29	44505	HAMI_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
6/6/2024 14:30	52002	LING_T2	2	9	7	0.1	0.1	0	0	0	0	0	0	0	0	0
6/6/2024 14:30	52004	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 14:31	40902	JESH_T1	0	1	1	0	0.2	0.2	-0.56	-0.61	2	2	0	1200	1200	0
6/6/2024 14:31	40901	JESH_T1	1	3	2	2.1	1.45	-0.65	0	0	0	0	0	0	0	0
6/6/2024 14:31	13503	MCMI_T2	0	1	1	0	0.2	0.2	0.19	0.2	0	0	0	0	0	0
6/6/2024 14:31	67303	WYOM_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
6/6/2024 14:32	67303	WYOM_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
6/6/2024 14:32	40101	HUNT_T2	14	92	78	0.64	0.42	-0.22	-0.1	-0.09	0	0	0	0	0	0
6/6/2024 14:33	23001	SAJO_T1	0	1	1	0	0.4	0.4	-0.56	-0.57	0	0	0	0	0	0
6/6/2024 14:35	43105	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/6/2024 14:35	43108	SMIL_T2	1	1	0	1.2	0.2	-1	0	0	0	0	0	0	0	0
6/6/2024 14:35	52004	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 14:35	52002	LING_T2	2	9	7	0.1	0.1	0	0.75	0.8	0	0	0	0	0	0
6/6/2024 14:35	43104	SMIL_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	300	300	0
6/6/2024 14:38	61102	BERK_T5	0	0	0	0	0	0	-0.28	-0.42	2	2	0	1200	1200	0
6/6/2024 14:38	43105	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/6/2024 14:38	42701	AUGU_T1	67	76	9	0.89	1.15	0.26	0	0	0	0	0	0	0	0
6/6/2024 14:38	43108	SMIL_T2	1	1	0	1.2	0.2	-1	0	0	0	0	0	0	0	0
6/6/2024 14:38	43104	SMIL_T2	0	0	0	0	0	0	-0.98	-0.98	2	2	0	600	600	0
6/6/2024 14:39	42701	AUGU_T1	67	76	9	0.89	1.15	0.26	0	0	0	0	0	0	0	0
6/6/2024 14:41	61102	BERK_T5	0	0	0	0	0	0	-0.28	-0.42	2	2	0	1200	1200	0
6/6/2024 14:41	61802	EELI_T2	8	8	0	0.51	0.36	-0.15	0	0	0	0	0	0	0	0
6/6/2024 14:41	61801	EELI_T2	1	2	1	1.6	0.2	-1.4	-0.08	-0.38	2	2	0	1200	1200	0
6/6/2024 14:44	52403	GRPA_T2	3	4	1	0.17	0.25	0.08	0.11	0.12	0	0	0	0	0	0
6/6/2024 14:44	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 14:44	41801	GOCI_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
6/6/2024 14:46	52002	LING_T2	2	13	11	0.1	0.2	0.1	0.8	0.83	0	0	0	0	0	0
6/6/2024 14:46	52004	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/6/2024 14:47	56803	BENV_T1	3	5	2	1.6	0.58	-1.02	0	0	0	0	0	0	0	0
6/6/2024 14:47	56801	BENV_T1	6	9	3	1.12	0.78	-0.34	-0.98	-1	2	2	0	1200	1200	0
6/6/2024 14:47	46101	MACI_T2	0	0	0	0	0	0	-1.22	-1.23	2	2	0	2400	2400	0
6/6/2024 14:49	56803	BENV_T1	3	5	2	1.6	0.58	-1.02	0	0	0	0	0	0	0	0
6/6/2024 14:49	56801	BENV_T1	6	9	3	1.12	0.78	-0.34	-1.95	-2	4	4	0	2400	2400	0
6/6/2024 14:50	43101	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 14:50	43108	SMIL_T2	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
6/6/2024 14:50	43104	SMIL_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	300	300	0
6/6/2024 14:50	56801	BENV_T1	6	9	3	1.12	0.78	-0.34	-1.95	-2	4	4	0	2400	2400	0
6/6/2024 14:50	64101	REFR_T1	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
6/6/2024 14:50	56803	BENV_T1	3	5	2	1.6	0.58	-1.02	0	0	0	0	0	0	0	0
6/6/2024 14:51	56801	BENV_T1	6	9	3	1.12	0.78	-0.34	-0.98	-1	2	2	0	1200	1200	0
6/6/2024 14:51	56803	BENV_T1	3	5	2	1.6	0.58	-1.02	0	0	0	0	0	0	0	0
6/6/2024 14:52	66702	STRA_T1	0	0	0	0	0	0	0.36	0.48	2	2	0	1500	1500	0
6/6/2024 14:52	56803	BENV_T1	3	5	2	1.6	0.58	-1.02	0	0	0	0	0	0	0	0
6/6/2024 14:52	56801	BENV_T1	6	9	3	1.12	0.78	-0.34	-2	-2.04	4	4	0	2400	2400	0
6/6/2024 14:53	64101	REFR_T1	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
6/6/2024 14:53	46001	BERW_T1	0	0	0	0	0	0	0.35	0.42	0	0	0	0	0	0
6/6/2024 14:53	46005	BERW_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
6/6/2024 14:54	46005	BERW_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
6/6/2024 14:54	64101	REFR_T1	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
6/6/2024 14:54	46001	BERW_T1	0	0	0	0	0	0	0.71	0.85	0	0	0	0	0	0
6/6/2024 14:55	24702	FLND_T2	8	3	-5	0.11	0.35	0.24	0	0	0	0	0	0	0	0
6/6/2024 14:55	24703	FLND_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	1200	1200	0
6/6/2024 14:56	46005	BERW_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
6/6/2024 14:56	46001	BERW_T1	0	0	0	0	0	0	0.35	0.42	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/6/2024 14:56	24702	FLND_T2	8	3	-5	0.11	0.35	0.24	0	0	0	0	0	0	0	0
6/6/2024 14:56	24703	FLND_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	1200	1200	0
6/6/2024 14:58	51802	EBEN_T2	2	2	0	1.7	1.75	0.05	0.72	0.69	1	1	0	900	900	0
6/6/2024 14:59	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/6/2024 14:59	58705	ROSE_T2	5	5	0	0.86	0.84	-0.02	0	0	0	0	0	0	0	0
6/6/2024 14:59	58702	ROSE_T2	0	0	0	0	0	0	-1.76	-1.7	0	0	0	0	0	0
6/6/2024 14:59	58706	ROSE_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 15:02	56803	BENV_T1	4	5	1	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
6/6/2024 15:02	56801	BENV_T1	8	9	1	0.86	0.41	-0.45	-1	-1.02	2	2	0	1200	1200	0
6/6/2024 15:02	40101	HUNT_T2	86	170	84	0.46	0.42	-0.04	-0.09	-0.09	0	0	0	0	0	0
6/6/2024 15:03	56801	BENV_T1	8	9	1	0.86	0.41	-0.45	-2	-2.04	4	4	0	2400	2400	0
6/6/2024 15:03	56803	BENV_T1	4	5	1	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
6/6/2024 15:03	43402	BENT_T1	3	3	0	0.53	0.5	-0.03	-0.49	-0.51	1	1	0	900	900	0
6/6/2024 15:03	45602	WOOL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 15:03	47802	MOCA_T2	1	1	0	0.1	0.5	0.4	-0.52	-0.55	0	0	0	0	0	0
6/6/2024 15:04	56803	BENV_T1	4	5	1	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
6/6/2024 15:04	52002	LING_T2	9	15	6	0.4	0.22	-0.18	0	0	0	0	0	0	0	0
6/6/2024 15:04	52004	LING_T2	0	0	0	0	0	0	0.52	0.46	0	0	0	0	0	0
6/6/2024 15:04	56801	BENV_T1	8	9	1	0.86	0.41	-0.45	-1	-1.02	2	2	0	1200	1200	0
6/6/2024 15:04	43402	BENT_T1	3	3	0	0.53	0.5	-0.03	-0.49	-0.51	1	1	0	900	900	0
6/6/2024 15:04	43101	SMIL_T2	0	1	1	0	0.2	0.2	-0.52	-0.51	1	1	0	300	300	0
6/6/2024 15:04	43108	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/6/2024 15:05	56801	BENV_T1	8	9	1	0.86	0.41	-0.45	-2	-2.04	4	4	0	2400	2400	0
6/6/2024 15:05	23001	SAJO_T1	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
6/6/2024 15:05	43102	SMIL_T2	0	0	0	0	0	0	-0.45	-0.45	1	1	0	600	600	0
6/6/2024 15:05	56803	BENV_T1	4	5	1	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
6/6/2024 15:05	43101	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 15:05	43108	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/6/2024 15:06	43402	BENT_T1	3	3	0	0.53	0.5	-0.03	-0.51	-0.53	1	1	0	900	900	0
6/6/2024 15:06	56801	BENV_T1	8	9	1	0.86	0.41	-0.45	-1	-1.02	2	2	0	1200	1200	0
6/6/2024 15:06	43102	SMIL_T2	0	0	0	0	0	0	-0.45	-0.45	1	1	0	600	600	0
6/6/2024 15:06	43108	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/6/2024 15:06	56803	BENV_T1	4	5	1	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
6/6/2024 15:06	43101	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 15:07	56803	BENV_T1	4	5	1	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
6/6/2024 15:07	56801	BENV_T1	8	9	1	0.86	0.41	-0.45	-1.02	-1.04	2	2	0	1200	1200	0
6/6/2024 15:08	57401	SPAN_T1	1	12	11	0.1	0.17	0.07	-0.23	-0.26	1	1	0	600	600	0
6/6/2024 15:08	46002	BERW_T2	0	0	0	0	0	0	-0.93	-1.02	1	1	0	900	900	0
6/6/2024 15:13	40101	HUNT_T2	86	170	84	0.46	0.42	-0.04	-0.09	-0.12	0	0	0	0	0	0
6/6/2024 15:14	64204	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/6/2024 15:14	44502	HAMI_T2	1	1	0	1.7	1.7	0	-0.33	-0.33	0	0	0	0	0	0
6/6/2024 15:14	64203	KINZ_T1	2	2	0	0.95	0.75	-0.2	0.32	0.43	3	3	0	2100	2100	0
6/6/2024 15:14	64201	KINZ_T1	6	12	6	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/6/2024 15:15	52002	LING_T2	12	21	9	0.34	0.65	0.31	0.85	0.88	0	0	0	0	0	0
6/6/2024 15:17	42903	MIDD_T2	1	6	5	0.1	0.1	0	1.05	0.82	1	1	0	1200	1200	0
6/6/2024 15:17	12304	LANA_T2	1	4	3	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/6/2024 15:17	12301	LANA_T2	0	2	2	0	0.4	0.4	-0.72	-0.7	1	1	0	1200	1200	0
6/6/2024 15:17	42901	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/6/2024 15:17	40101	HUNT_T2	68	172	104	0.42	0.38	-0.04	-0.09	-0.12	0	0	0	0	0	0
6/6/2024 15:19	56803	BENV_T1	5	5	0	0.74	0.25	-0.49	0	0	0	0	0	0	0	0
6/6/2024 15:19	57401	SPAN_T1	10	5	-5	0.14	0.8	0.66	-0.23	-0.26	1	1	0	600	600	0
6/6/2024 15:19	56801	BENV_T1	8	7	-1	0.44	0.24	-0.2	-1.02	-1.04	2	2	0	1200	1200	0
6/6/2024 15:21	67604	WARW_T1	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
6/6/2024 15:21	67605	WARW_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/6/2024 15:24	57303	MOAL_T2	1	1	0	8.1	8	-0.1	0	0	0	0	0	0	0	0
6/6/2024 15:24	57304	MOAL_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
6/6/2024 15:26	45902	AUBU_T1	1	1	0	0.2	0.5	0.3	-0.37	-0.37	1	1	0	600	600	0
6/6/2024 15:28	41801	GOCI_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/6/2024 15:31	59301	MCAL_T1	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
6/6/2024 15:31	59302	MCAL_T1	25	24	-1	0.71	0.67	-0.04	0	0	0	0	0	0	0	0
6/6/2024 15:32	59003	MIFF_T1	1	1	0	1.3	0	-1.3	-0.76	-0.42	0	0	0	0	0	0
6/6/2024 15:32	60502	NMAN_T2	0	0	0	0	0	0	0.45	0.52	0	0	0	0	0	0
6/6/2024 15:32	56504	ROCK_T2	0	0	0	0	0	0	-0.61	-0.59	0	0	0	0	0	0
6/6/2024 15:32	56503	ROCK_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/6/2024 15:32	60501	NMAN_T2	3	3	0	2.73	3.2	0.47	0	0	0	0	0	0	0	0
6/6/2024 15:32	56501	ROCK_T2	8	9	1	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
6/6/2024 15:34	13503	MCMI_T2	161	154	-7	0.33	0.33	0	-0.67	-0.67	0	0	0	0	0	0
6/6/2024 15:35	60501	NMAN_T2	3	3	0	2.73	3.2	0.47	0	0	0	0	0	0	0	0
6/6/2024 15:35	60502	NMAN_T2	0	0	0	0	0	0	0.45	0.52	0	0	0	0	0	0
6/6/2024 15:36	24603	VARD_T2	15	13	-2	0.35	0.42	0.07	0	0	0	0	0	0	0	0
6/6/2024 15:36	44601	SALE_T2	0	2	2	0	0	0	0.09	0.5	1	1	0	600	600	0
6/6/2024 15:36	24602	VARD_T2	345	297	-48	0.4	0.33	-0.07	-0.57	-0.61	0	0	0	0	0	0
6/6/2024 15:37	56803	BENV_T1	3	4	1	0.73	1.77	1.04	0	0	0	0	0	0	0	0
6/6/2024 15:37	56801	BENV_T1	4	6	2	0.28	0.3	0.02	-1.07	-1.01	2	2	0	1200	1200	0
6/6/2024 15:37	44601	SALE_T2	0	2	2	0	0	0	0.09	0.5	1	2	1	600	900	300
6/6/2024 15:38	43108	SMIL_T2	0	0	0	0	0	0	-1.6	-1.5	2	2	0	2400	2400	0
6/6/2024 15:38	24902	WHHA_T1	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
6/6/2024 15:38	43102	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 15:39	67605	WARW_T1	0	1	1	0	0.3	0.3	-0.78	-0.75	0	0	0	0	0	0
6/6/2024 15:39	61002	DONV_T2	0	0	0	0	0	0	-1.01	-0.97	3	3	0	1800	1800	0
6/6/2024 15:41	41802	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/6/2024 15:41	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 15:42	45902	AUBU_T1	1	1	0	0.1	0.5	0.4	-0.37	-0.36	1	1	0	600	600	0
6/6/2024 15:44	10801	CHHI_T1	13	14	1	0.58	0.7	0.12	-1.18	-1.17	3	3	0	2100	2100	0
6/6/2024 15:45	25404	LAHA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 15:45	21206	ECAR_T2	1	2	1	7.7	8.1	0.4	0.34	0.29	0	0	0	0	0	0
6/6/2024 15:45	25402	LAHA_T2	0	0	0	0	0	0	-0.38	-0.45	0	0	0	0	0	0
6/6/2024 15:45	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 15:47	56801	BENV_T1	4	5	1	0.2	0.42	0.22	-1.07	-1.01	2	2	0	1200	1200	0
6/6/2024 15:47	52002	LING_T2	19	10	-9	0.46	0.56	0.1	0.93	0.92	0	0	0	0	0	0
6/6/2024 15:47	59301	MCAL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 15:47	59302	MCAL_T1	23	25	2	0.78	0.79	0.01	-0.49	-0.49	1	1	0	600	600	0
6/6/2024 15:47	56803	BENV_T1	4	3	-1	2.05	0.4	-1.65	0	0	0	0	0	0	0	0
6/6/2024 15:48	46102	MACJ_T1	0	0	0	0	0	0	1.03	1.02	0	0	0	0	0	0
6/6/2024 15:49	60801	BUCK_T1	0	0	0	0	0	0	-0.18	-0.2	1	1	0	600	600	0
6/6/2024 15:51	67602	WARW_T2	0	2	2	0	0	0	0.35	0.29	2	2	0	1500	1500	0
6/6/2024 15:53	67602	WARW_T2	0	2	2	0	0	0	0.35	0.29	2	2	0	1500	1500	0
6/6/2024 15:54	67602	WARW_T2	0	2	2	0	0	0	0.35	0.29	2	2	0	1500	1500	0
6/6/2024 15:57	41801	GOCI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 15:59	41801	GOCI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 16:00	12701	MACU_T1	0	0	0	0	0	0	-0.82	-0.81	1	1	0	1200	1200	0
6/6/2024 16:00	20603	GRWO_T2	0	0	0	0	0	0	-0.34	-0.35	1	1	0	900	900	0
6/6/2024 16:01	12701	MACU_T1	0	0	0	0	0	0	-0.82	-0.81	1	1	0	1200	1200	0
6/6/2024 16:02	60501	NMAN_T2	3	3	0	3.03	2.83	-0.2	0	0	0	0	0	0	0	0
6/6/2024 16:02	60502	NMAN_T2	0	0	0	0	0	0	0.52	0.58	0	0	0	0	0	0
6/6/2024 16:06	67204	TEHI_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
6/6/2024 16:07	67204	TEHI_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
6/6/2024 16:10	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 16:11	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 16:11	60201	ATGL_T2	0	0	0	0	0	0	0.58	0.67	2	2	0	900	900	0
6/6/2024 16:12	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 16:12	10805	CHHI_T2	6	3	-3	2.05	4.7	2.65	-1.93	-1.92	2	2	0	1200	1200	0
6/6/2024 16:15	56501	ROCK_T2	14	6	-8	0.24	0.24	0	-1.67	-1.64	0	0	0	0	0	0
6/6/2024 16:15	51401	LYKE_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
6/6/2024 16:15	51402	LYKE_T1	1	7	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/6/2024 16:16	56501	ROCK_T2	14	6	-8	0.24	0.24	0	-5	-4.93	0	0	0	0	0	0
6/6/2024 16:17	51402	LYKE_T1	1	7	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/6/2024 16:17	10805	CHHI_T2	2	10	8	4.9	3.17	-1.73	-1.93	-1.92	2	2	0	1200	1200	0
6/6/2024 16:17	56501	ROCK_T2	14	6	-8	0.24	0.24	0	1.67	1.64	0	0	0	0	0	0
6/6/2024 16:17	51401	LYKE_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
6/6/2024 16:17	42002	MNVL_T2	1	1	0	4.4	3.2	-1.2	0.19	0.06	0	0	0	0	0	0
6/6/2024 16:18	12606	MACA_T1	16	28	12	0.56	0.3	-0.26	0.51	0.52	1	1	0	900	900	0
6/6/2024 16:20	43108	SMIL_T2	0	0	0	0	0	0	-1.53	-1.67	2	2	0	2400	2400	0
6/6/2024 16:20	42002	MNVL_T2	1	1	0	4.4	3.2	-1.2	0.19	0.06	0	0	0	0	0	0
6/6/2024 16:20	56501	ROCK_T2	14	6	-8	0.24	0.24	0	-1.67	-1.64	0	0	0	0	0	0
6/6/2024 16:21	55101	WERT_T1	0	0	0	0	0	0	-1.97	-1.8	4	4	0	3300	3300	0
6/6/2024 16:21	67605	WARW_T1	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
6/6/2024 16:21	56501	ROCK_T2	14	6	-8	0.24	0.24	0	-3.33	-3.29	0	0	0	0	0	0
6/6/2024 16:21	55103	WERT_T1	1	1	0	8	6.5	-1.5	0	0	0	0	0	0	0	0
6/6/2024 16:22	55103	WERT_T1	1	1	0	8	6.5	-1.5	0	0	0	0	0	0	0	0
6/6/2024 16:22	55101	WERT_T1	0	0	0	0	0	0	-1.8	-1.93	4	4	0	3300	3300	0
6/6/2024 16:23	55103	WERT_T1	1	1	0	8	6.5	-1.5	0	0	0	0	0	0	0	0
6/6/2024 16:23	67603	WARW_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
6/6/2024 16:23	55101	WERT_T1	0	0	0	0	0	0	-1.8	-1.93	4	4	0	3300	3300	0
6/6/2024 16:24	55103	WERT_T1	1	1	0	8	6.5	-1.5	0	0	0	0	0	0	0	0
6/6/2024 16:24	55101	WERT_T1	0	0	0	0	0	0	-1.8	-1.93	4	4	0	3300	3300	0
6/6/2024 16:25	61701	ELIZ_T1	2	1	-1	1.3	2.2	0.9	1.32	1.16	0	0	0	0	0	0
6/6/2024 16:25	61703	ELIZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/6/2024 16:26	55101	WERT_T1	0	0	0	0	0	0	-1.8	-1.93	4	4	0	3300	3300	0
6/6/2024 16:26	55103	WERT_T1	1	1	0	8	6.5	-1.5	0	0	0	0	0	0	0	0
6/6/2024 16:26	61701	ELIZ_T1	2	1	-1	1.3	2.2	0.9	1.32	1.16	0	0	0	0	0	0
6/6/2024 16:26	61703	ELIZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/6/2024 16:26	60201	ATGL_T2	0	0	0	0	0	0	0.67	0.58	2	2	0	900	900	0
6/6/2024 16:27	61701	ELIZ_T1	2	1	-1	1.3	2.2	0.9	1.32	1.16	0	0	0	0	0	0
6/6/2024 16:27	61703	ELIZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/6/2024 16:28	52401	GRPA_T2	3	10	7	0.43	0.41	-0.02	0	0	0	0	0	0	0	0
6/6/2024 16:28	52403	GRPA_T2	4	10	6	1.08	0.98	-0.1	0.1	-0.01	0	0	0	0	0	0
6/6/2024 16:28	52402	GRPA_T2	1	7	6	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
6/6/2024 16:30	51401	LYKE_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
6/6/2024 16:30	51402	LYKE_T1	1	7	6	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
6/6/2024 16:31	22901	HARW_T1	0	5	5	0	0.1	0.1	-0.18	-0.28	1	1	0	1200	1200	0
6/6/2024 16:32	24101	EHAZ_T1	2	12	10	0.35	0.53	0.18	0	0	0	0	0	0	0	0
6/6/2024 16:32	24105	EHAZ_T1	4	4	0	6	6.03	0.03	0	0	0	0	0	0	0	0
6/6/2024 16:32	24102	EHAZ_T1	0	2	2	0	0	0	-0.28	0.48	0	0	0	0	0	0
6/6/2024 16:33	51402	LYKE_T1	1	7	6	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
6/6/2024 16:33	51401	LYKE_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
6/6/2024 16:34	59302	MCAL_T1	13	14	1	0.91	0.85	-0.06	-0.51	-0.54	1	1	0	600	600	0
6/6/2024 16:34	59301	MCAL_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/6/2024 16:36	43104	SMIL_T2	0	0	0	0	0	0	-0.48	-0.48	1	1	0	300	300	0
6/6/2024 16:36	43103	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 16:40	67602	WARW_T2	0	1	1	0	0	0	0.31	0.31	2	2	0	1500	1500	0
6/6/2024 16:41	60305	TWVA_T2	0	0	0	0	0	0	0.22	0.05	2	2	0	2400	2400	0
6/6/2024 16:42	17804	GILB_T2	1	1	0	0.8	0.1	-0.7	-0.4	-0.4	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/6/2024 16:43	64203	KINZ_T1	1	1	0	1.2	0.3	-0.9	0	0	0	0	0	0	0	0
6/6/2024 16:43	64204	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/6/2024 16:43	64201	KINZ_T1	1	0	-1	0.2	0	-0.2	-0.42	-0.4	4	4	0	2100	2100	0
6/6/2024 16:46	51402	LYKE_T1	7	0	-7	0.13	0	-0.13	0	0	0	0	0	0	0	0
6/6/2024 16:46	51401	LYKE_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
6/6/2024 16:46	23403	HONE_T1	0	1	1	0	0	0	-0.28	-0.25	0	0	0	0	0	0
6/6/2024 16:48	51401	LYKE_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
6/6/2024 16:48	52004	LING_T2	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
6/6/2024 16:48	51402	LYKE_T1	7	0	-7	0.13	0	-0.13	0	0	0	0	0	0	0	0
6/6/2024 16:48	52002	LING_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 16:49	41901	REED_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/6/2024 16:49	41902	REED_T1	71	63	-8	0.6	0.36	-0.24	0.64	0.64	1	1	0	900	900	0
6/6/2024 16:51	41902	REED_T1	71	63	-8	0.6	0.36	-0.24	0.64	0.64	1	1	0	900	900	0
6/6/2024 16:51	41901	REED_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/6/2024 16:52	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.21	1	1	0	600	600	0
6/6/2024 16:53	43201	MVIL_T2	2	4	2	0.9	0	-0.9	0	0	0	0	0	0	0	0
6/6/2024 16:53	43202	MVIL_T2	0	2	2	0	0.2	0.2	-0.49	-0.49	0	0	0	0	0	0
6/6/2024 16:56	20402	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 16:56	20403	ASHF_T2	5	5	0	0.4	0.5	0.1	1.11	1.12	0	0	0	0	0	0
6/6/2024 16:56	20401	ASHF_T2	9	5	-4	1.21	1.28	0.07	0	0	0	0	0	0	0	0
6/6/2024 16:57	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 16:57	61701	ELIZ_T1	1	1	0	2	0.9	-1.1	1.26	1.34	0	0	0	0	0	0
6/6/2024 16:57	61703	ELIZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/6/2024 16:57	66504	SMAN_T2	0	0	0	0	0	0	-0.37	-0.35	1	1	0	1200	1200	0
6/6/2024 16:58	61703	ELIZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/6/2024 16:58	53501	EVIL_T2	2	0	-2	0.4	0	-0.4	-1.34	-0.61	3	2	-1	2100	1200	-900
6/6/2024 16:58	61701	ELIZ_T1	1	1	0	2	0.9	-1.1	1.26	1.34	0	0	0	0	0	0
6/6/2024 16:59	11104	EGYP_T1	7	7	0	1.76	0.84	-0.92	1.02	0.16	0	1	1	0	900	900
6/6/2024 16:59	61701	ELIZ_T1	1	1	0	2	0.9	-1.1	1.26	1.34	0	0	0	0	0	0
6/6/2024 16:59	11102	EGYP_T1	3	4	1	1.67	1.93	0.26	0	0	0	0	0	0	0	0
6/6/2024 16:59	61703	ELIZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/6/2024 17:01	52101	MEIS_T1	2	2	0	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
6/6/2024 17:01	52102	MEIS_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
6/6/2024 17:01	64305	LINC_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/6/2024 17:01	64303	LINC_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
6/6/2024 17:02	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.21	1	1	0	600	600	0
6/6/2024 17:03	64303	LINC_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
6/6/2024 17:03	41902	REED_T1	62	101	39	0.54	0.39	-0.15	0.64	0.65	1	1	0	900	900	0
6/6/2024 17:03	64305	LINC_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/6/2024 17:03	41901	REED_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/6/2024 17:04	11102	EGYP_T1	3	10	7	1.93	1.4	-0.53	0	0	0	0	0	0	0	0
6/6/2024 17:04	11104	EGYP_T1	7	5	-2	1.5	0.84	-0.66	1.02	0.16	0	1	1	0	900	900
6/6/2024 17:04	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
6/6/2024 17:04	52101	MEIS_T1	2	2	0	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
6/6/2024 17:05	52101	MEIS_T1	2	2	0	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
6/6/2024 17:05	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
6/6/2024 17:06	42201	SHEN_T2	0	0	0	0	0	0	0.46	0.45	1	1	0	600	600	0
6/6/2024 17:06	65604	QVIL_T2	2	3	1	0.55	0.2	-0.35	0.86	0.87	0	0	0	0	0	0
6/6/2024 17:06	65602	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 17:07	65604	QVIL_T2	2	3	1	0.55	0.2	-0.35	0.86	0.87	0	0	0	0	0	0
6/6/2024 17:07	65602	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 17:08	43402	BENT_T1	0	0	0	0	0	0	-0.69	-0.73	1	1	0	900	900	0
6/6/2024 17:11	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/6/2024 17:12	52401	GRPA_T2	4	12	8	0.53	0.2	-0.33	0	0	0	0	0	0	0	0
6/6/2024 17:12	52404	GRPA_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/6/2024 17:12	52403	GRPA_T2	22	56	34	0.92	0.83	-0.09	-0.07	0.01	0	0	0	0	0	0
6/6/2024 17:12	52402	GRPA_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
6/6/2024 17:14	64305	LINC_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/6/2024 17:14	64303	LINC_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
6/6/2024 17:17	45002	LIME_2	1	1	0	2.7	2.1	-0.6	0	0	0	0	0	0	0	0
6/6/2024 17:17	52101	MEIS_T1	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
6/6/2024 17:17	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
6/6/2024 17:17	45001	LIME_2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
6/6/2024 17:17	45003	LIME_2	45	42	-3	0.66	0.5	-0.16	0.63	0.64	0	0	0	0	0	0
6/6/2024 17:18	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 17:18	64305	LINC_T1	1	1	0	0.6	0.2	-0.4	-0.3	-0.36	0	0	0	0	0	0
6/6/2024 17:19	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 17:20	64305	LINC_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
6/6/2024 17:20	64303	LINC_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
6/6/2024 17:23	67602	WARW_T2	0	3	3	0	0.5	0.5	0.32	0.33	2	2	0	1500	1500	0
6/6/2024 17:24	67602	WARW_T2	0	3	3	0	0.5	0.5	0.32	0.33	2	2	0	1500	1500	0
6/6/2024 17:27	61702	ELIZ_T2	1	0	-1	0.3	0	-0.3	-2.06	-2.05	2	2	0	1500	1500	0
6/6/2024 17:31	12301	LANA_T2	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/6/2024 17:31	12302	LANA_T2	1	0	-1	0.3	0	-0.3	-1.69	-1.71	3	3	0	2700	2700	0
6/6/2024 17:31	12304	LANA_T2	69	49	-20	0.49	0.37	-0.12	0	0	0	0	0	0	0	0
6/6/2024 17:31	12305	LANA_T2	6	1	-5	0.48	0	-0.48	0	0	0	0	0	0	0	0
6/6/2024 17:32	64203	KINZ_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/6/2024 17:32	64204	KINZ_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/6/2024 17:32	64202	KINZ_T1	0	0	0	0	0	0	1.64	1.63	0	0	0	0	0	0
6/6/2024 17:34	64101	REFR_T1	6	3	-3	0.73	0.13	-0.6	-0.1	-0.11	0	0	0	0	0	0
6/6/2024 17:35	64101	REFR_T1	6	3	-3	0.73	0.13	-0.6	-0.31	-0.33	0	0	0	0	0	0
6/6/2024 17:35	42201	SHEN_T2	0	0	0	0	0	0	0.87	0.85	2	2	0	1200	1200	0
6/6/2024 17:38	64101	REFR_T1	6	3	-3	0.73	0.13	-0.6	-0.11	-0.11	0	0	0	0	0	0
6/6/2024 17:39	59101	WALK_T2	0	0	0	0	0	0	1.53	1.64	1	1	0	600	600	0
6/6/2024 17:39	61101	BERK_T5	0	0	0	0	0	0	-0.91	-0.91	0	0	0	0	0	0
6/6/2024 17:39	64101	REFR_T1	6	3	-3	0.73	0.13	-0.6	-0.11	-0.11	0	0	0	0	0	0
6/6/2024 17:40	10801	CHHI_T1	106	134	28	0.73	0.65	-0.08	-1.09	-1.07	3	3	0	2100	2100	0
6/6/2024 17:49	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 17:49	43202	MVIL_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
6/6/2024 17:50	43202	MVIL_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
6/6/2024 17:50	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 17:51	56501	ROCK_T2	14	25	11	0.22	0.24	0.02	-1.59	-1.59	0	0	0	0	0	0
6/6/2024 17:54	65902	SAKR_T2	0	0	0	0	0	0	-1.04	-0.98	2	2	0	1200	1200	0
6/6/2024 17:54	65903	SAKR_T2	1	1	0	0.2	1.2	1	0	0	0	0	0	0	0	0
6/6/2024 17:54	60101	COCA_T1	0	0	0	0	0	0	-0.23	-0.23	1	1	0	1200	1200	0
6/6/2024 17:54	65901	SAKR_T2	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
6/6/2024 17:56	45501	DERR_T2	0	1	1	0	0.2	0.2	0.74	0.65	2	2	0	1800	1800	0
6/6/2024 17:56	60101	COCA_T1	0	0	0	0	0	0	-0.23	-0.23	1	1	0	1200	1200	0
6/6/2024 17:56	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/6/2024 17:57	52102	MEIS_T1	0	3	3	0	0.1	0.1	0	0	1	1	0	450	450	0
6/6/2024 17:57	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/6/2024 17:57	52101	MEIS_T1	2	2	0	0.4	1.15	0.75	0	0	0	0	0	0	0	0
6/6/2024 17:57	45501	DERR_T2	0	1	1	0	0.2	0.2	0.74	0.65	2	2	0	1800	1800	0
6/6/2024 17:58	60101	COCA_T1	0	0	0	0	0	0	-0.23	-0.23	1	1	0	1200	1200	0
6/6/2024 17:58	28704	HAML_T2	0	1	1	0	0.2	0.2	0.04	0.04	0	0	0	0	0	0
6/6/2024 17:59	45003	LIME_2	42	59	17	0.55	0.45	-0.1	0.65	0.71	0	0	0	0	0	0
6/6/2024 17:59	65901	SAKR_T2	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
6/6/2024 17:59	65902	SAKR_T2	0	0	0	0	0	0	-1.04	-0.98	2	2	0	1200	1200	0
6/6/2024 17:59	45001	LIME_2	1	1	0	1.4	0	-1.4	0	0	0	0	0	0	0	0
6/6/2024 17:59	65903	SAKR_T2	1	1	0	0.2	1.2	1	0	0	0	0	0	0	0	0
6/6/2024 17:59	45002	LIME_2	1	1	0	1.9	2.4	0.5	0	0	0	0	0	0	0	0
6/6/2024 18:09	61701	ELIZ_T1	1	1	0	0.7	1.2	0.5	1.22	1.21	0	0	0	0	0	0
6/6/2024 18:12	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 18:12	46206	DANV_T2	92	239	147	0.66	0.73	0.07	3.74	3.73	1	1	0	1200	1200	0
6/6/2024 18:12	46204	DANV_T2	0	7	7	0	0.3	0.3	0	0	0	0	0	0	0	0
6/6/2024 18:14	46206	DANV_T2	92	239	147	0.66	0.73	0.07	3.74	3.73	1	1	0	1200	1200	0
6/6/2024 18:14	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 18:14	46204	DANV_T2	0	7	7	0	0.3	0.3	0	0	0	0	0	0	0	0
6/6/2024 18:17	65604	QVIL_T2	3	3	0	0.6	0.47	-0.13	0	0	0	0	0	0	0	0
6/6/2024 18:17	65602	QVIL_T2	2	2	0	1.1	0.7	-0.4	1.16	1.15	0	0	0	0	0	0
6/6/2024 18:17	52002	LING_T2	0	0	0	0	0	0	0.17	0.02	1	1	0	900	900	0
6/6/2024 18:26	45501	DERR_T2	1	1	0	0.2	0	-0.2	0.71	0.62	2	2	0	1800	1800	0
6/6/2024 18:26	45502	DERR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 18:29	45502	DERR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 18:29	45501	DERR_T2	1	1	0	0.2	0	-0.2	0.71	0.62	2	2	0	1800	1800	0
6/6/2024 18:32	46501	LOHA_T1	0	0	0	0	0	0	0.06	0.05	1	1	0	1200	1200	0
6/6/2024 18:32	46504	LOHA_T1	2	2	0	0.75	1.15	0.4	0	0	0	0	0	0	0	0
6/6/2024 18:33	52004	LING_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
6/6/2024 18:34	52102	MEIS_T1	5	23	18	0.22	0.16	-0.06	0	0	1	1	0	450	450	0
6/6/2024 18:34	52101	MEIS_T1	2	2	0	1.4	1.05	-0.35	0	0	0	0	0	0	0	0
6/6/2024 18:36	64904	MILL_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
6/6/2024 18:45	64204	KINZ_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/6/2024 18:45	64203	KINZ_T1	0	0	0	0	0	0	-0.08	-0.12	2	2	0	900	900	0
6/6/2024 18:46	59001	MIFF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 18:46	59003	MIFF_T1	0	1	1	0	0.2	0.2	-0.74	-0.76	0	0	0	0	0	0
6/6/2024 18:46	59002	MIFF_T1	1	5	4	0.1	0.44	0.34	0	0	0	0	0	0	0	0
6/6/2024 18:47	44203	POIN_T2	3	2	-1	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/6/2024 18:47	44202	POIN_T2	0	1	1	0	0	0	-0.15	-0.14	1	1	0	1200	1200	0
6/6/2024 18:47	48302	ORWI_T2	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
6/6/2024 18:48	44203	POIN_T2	3	2	-1	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/6/2024 18:48	44202	POIN_T2	0	1	1	0	0	0	-0.15	-0.14	1	1	0	1200	1200	0
6/6/2024 18:58	45802	HEGI_T2	11	20	9	1.46	0.56	-0.9	0.25	-0.08	1	1	0	900	900	0
6/6/2024 19:01	55002	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 19:01	55001	NEWP_T1	0	1	1	0	0.2	0.2	-0.29	0.25	0	0	0	0	0	0
6/6/2024 19:02	52402	GRPA_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
6/6/2024 19:02	52403	GRPA_T2	24	51	27	0.83	0.62	-0.21	-0.07	-0.09	0	0	0	0	0	0
6/6/2024 19:03	64303	LINC_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/6/2024 19:03	64305	LINC_T1	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
6/6/2024 19:04	64303	LINC_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/6/2024 19:04	64305	LINC_T1	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
6/6/2024 19:06	65602	QVIL_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/6/2024 19:06	65604	QVIL_T2	3	2	-1	0.23	0.4	0.17	0	0	0	0	0	0	0	0
6/6/2024 19:06	65603	QVIL_T2	0	0	0	0	0	0	-0.95	-0.73	0	0	0	0	0	0
6/6/2024 19:11	24702	FLND_T2	0	0	0	0	0	0	0.15	0.34	1	1	0	1200	1200	0
6/6/2024 19:11	53502	EVIL_T2	0	0	0	0	0	0	-0.12	-0.18	2	2	0	1200	1200	0
6/6/2024 19:11	53501	EVIL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
6/6/2024 19:12	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 19:12	10204	ALLE_T2	2	2	0	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
6/6/2024 19:12	10102	ALLE_T2	1	1	0	7.6	7.6	0	0	0	0	0	0	0	0	0
6/6/2024 19:15	53902	HALI_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
6/6/2024 19:15	53903	HALI_T2	2	2	0	1.25	1.5	0.25	0	0	0	0	0	0	0	0
6/6/2024 19:15	53901	HALI_T2	0	1	1	0	0.3	0.3	-0.94	-0.96	0	0	0	0	0	0
6/6/2024 19:17	53901	HALI_T2	0	1	1	0	0.3	0.3	-0.94	-0.96	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/6/2024 19:17	53902	HALI_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
6/6/2024 19:17	53903	HALI_T2	2	2	0	1.25	1.5	0.25	0	0	0	0	0	0	0	0
6/6/2024 19:19	12801	MICK_T1	0	0	0	0	0	0	-0.4	-0.42	1	1	0	600	600	0
6/6/2024 19:19	12807	MICK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 19:20	43202	MVIL_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
6/6/2024 19:21	50105	HARR_T3	7	6	-1	6.01	5.8	-0.21	0	0	0	0	0	0	0	0
6/6/2024 19:21	50103	HARR_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 19:21	58102	NEKI_T1	1	1	0	1.8	1.3	-0.5	-1.03	-0.07	1	0	-1	1200	0	-1200
6/6/2024 19:21	50107	HARR_T3	1	1	0	7.1	7.1	0	0.81	0.8	0	0	0	0	0	0
6/6/2024 19:21	50201	HARR_T3	1	1	0	0	0.4	0.4	0	0	0	0	0	0	0	0
6/6/2024 19:24	10102	ALLE_T2	1	1	0	7.7	7.4	-0.3	0	0	0	0	0	0	0	0
6/6/2024 19:24	10204	ALLE_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/6/2024 19:26	10102	ALLE_T2	1	1	0	7.7	7.4	-0.3	0	0	0	0	0	0	0	0
6/6/2024 19:26	10204	ALLE_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/6/2024 19:28	43304	WATS_T2	3	7	4	1.3	0.9	-0.4	-0.11	-0.12	0	0	0	0	0	0
6/6/2024 19:28	43302	WATS_T2	0	4	4	0	0.48	0.48	0	0	0	0	0	0	0	0
6/6/2024 19:29	43304	WATS_T2	3	7	4	1.3	0.9	-0.4	-0.11	-0.12	0	0	0	0	0	0
6/6/2024 19:29	43302	WATS_T2	0	4	4	0	0.48	0.48	0	0	0	0	0	0	0	0
6/6/2024 19:35	64902	MILL_T2	0	0	0	0	0	0	-0.6	-0.63	1	1	0	900	900	0
6/6/2024 19:35	64903	MILL_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/6/2024 19:36	51505	SWAT_T2	0	0	0	0	0	0	1.31	1.33	0	0	0	0	0	0
6/6/2024 19:50	66203	SISP_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 19:50	66201	SISP_T2	0	0	0	0	0	0	-1.55	-1.56	0	0	0	0	0	0
6/6/2024 19:50	13702	SCHN_T1	0	0	0	0	0	0	1.42	1.4	0	0	0	0	0	0
6/6/2024 19:53	13702	SCHN_T1	0	0	0	0	0	0	1.4	1.37	0	0	0	0	0	0
6/6/2024 19:53	66203	SISP_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 19:53	66201	SISP_T2	0	0	0	0	0	0	-1.56	-1.59	0	0	0	0	0	0
6/6/2024 19:58	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 19:58	40502	CRES_T2	8	2	-6	0.21	0.2	-0.01	-0.21	-0.24	0	0	0	0	0	0
6/6/2024 20:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 20:00	40502	CRES_T2	2	1	-1	0.15	0.2	0.05	-0.21	-0.24	0	0	0	0	0	0
6/6/2024 20:18	49804	UNIV_T1	0	0	0	0	0	0	1.09	0.95	0	0	0	0	0	0
6/6/2024 20:26	61102	BERK_T5	0	0	0	0	0	0	-0.91	-0.83	3	3	0	2400	2400	0
6/6/2024 20:32	24902	WHHA_T1	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
6/6/2024 21:02	64701	LITI_T1	7	6	-1	0.46	0	-0.46	0	0	0	0	0	0	0	0
6/6/2024 21:02	64704	LITI_T1	0	0	0	0	0	0	0.59	0.66	1	1	0	600	600	0
6/6/2024 21:06	61701	ELIZ_T1	1	1	0	2.3	3.2	0.9	1.01	1	0	0	0	0	0	0
6/6/2024 21:24	57403	SPAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/6/2024 21:24	57401	SPAN_T1	0	0	0	0	0	0	-0.43	-0.47	1	1	0	600	600	0
6/6/2024 21:25	57401	SPAN_T1	0	0	0	0	0	0	-1.29	-1.42	3	3	0	1800	1800	0
6/6/2024 21:25	57403	SPAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/6/2024 21:28	57403	SPAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/6/2024 21:28	57401	SPAN_T1	0	0	0	0	0	0	-0.43	-0.47	1	1	0	600	600	0
6/6/2024 21:29	59101	WALK_T2	0	2	2	0	0	0	1.15	1.27	1	1	0	600	600	0
6/6/2024 21:31	10801	CHHI_T1	3	1	-2	0.27	0	-0.27	-1.43	-1.46	3	3	0	2100	2100	0
6/6/2024 21:32	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 21:40	59101	WALK_T2	0	3	3	0	0	0	1.27	1.31	1	1	0	600	600	0
6/6/2024 21:48	44201	POIN_T1	140	339	199	0.29	0.34	0.05	-2.38	-2.44	2	2	0	2100	2100	0
6/6/2024 21:49	44201	POIN_T1	140	339	199	0.29	0.34	0.05	-2.38	-2.44	2	2	0	2100	2100	0
6/6/2024 22:04	58402	MORO_T1	0	0	0	0	0	0	-0.84	-0.9	3	3	0	2400	2400	0
6/6/2024 22:08	46504	LOHA_T1	2	2	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
6/6/2024 22:08	46506	LOHA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/6/2024 22:08	43801	SWIL_T1	10	7	-3	0.89	1.09	0.2	0	0	0	0	0	0	0	0
6/6/2024 22:08	43802	SWIL_T1	0	0	0	0	0	0	0.15	0.13	1	1	0	600	600	0
6/6/2024 22:08	46501	LOHA_T1	0	0	0	0	0	0	-0.05	-0.08	1	1	0	1200	1200	0
6/6/2024 22:11	61701	ELIZ_T1	1	1	0	3.8	3.1	-0.7	0.76	0.79	0	0	0	0	0	0
6/6/2024 22:18	17002	RIRO_T2	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
6/6/2024 22:19	45702	LIND_T2	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
6/6/2024 22:20	28703	HAML_T2	3	3	0	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
6/6/2024 22:20	12606	MACA_T1	0	0	0	0	0	0	0.25	0.22	1	1	0	900	900	0
6/6/2024 22:20	12601	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:20	28704	HAML_T2	1	1	0	0.8	0.8	0	0.03	0.02	0	0	0	0	0	0
6/6/2024 22:21	46506	LOHA_T1	1	0	-1	0.4	0	-0.4	-0.19	-0.21	0	0	0	0	0	0
6/6/2024 22:21	65604	QVIL_T2	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
6/6/2024 22:21	46504	LOHA_T1	2	2	0	0.9	0.95	0.05	0	0	0	0	0	0	0	0
6/6/2024 22:22	61702	ELIZ_T2	0	0	0	0	0	0	-2.44	-1.81	2	2	0	1500	1500	0
6/6/2024 22:22	61701	ELIZ_T1	1	1	0	2.7	3.4	0.7	0.79	0.76	0	0	0	0	0	0
6/6/2024 22:22	51401	TYKE_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/6/2024 22:22	61101	BERK_T5	0	0	0	0	0	0	-1.12	-1.14	0	0	0	0	0	0
6/6/2024 22:23	64904	MILL_T1	0	0	0	0	0	0	0.2	0.05	0	0	0	0	0	0
6/6/2024 22:23	46504	LOHA_T1	2	2	0	0.9	0.95	0.05	0	0	0	0	0	0	0	0
6/6/2024 22:23	64901	MILL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 22:23	46506	LOHA_T1	1	0	-1	0.4	0	-0.4	-0.19	-0.21	0	0	0	0	0	0
6/6/2024 22:24	65001	NEFF_T2	0	0	0	0	0	0	-0.56	-0.6	1	1	0	1200	1200	0
6/6/2024 22:24	42802	SELI_T1	0	0	0	0	0	0	-0.97	-0.97	0	0	0	0	0	0
6/6/2024 22:24	24801	VALM_T1	0	0	0	0	0	0	-0.22	-0.18	0	0	0	0	0	0
6/6/2024 22:25	46504	LOHA_T1	2	2	0	0.9	0.95	0.05	0	0	0	0	0	0	0	0
6/6/2024 22:25	46506	LOHA_T1	1	0	-1	0.4	0	-0.4	-0.19	-0.21	0	0	0	0	0	0
6/6/2024 22:25	17805	GILB_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
6/6/2024 22:26	45601	WOOL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
6/6/2024 22:26	51002	NHAR_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
6/6/2024 22:26	67703	WERN_T2	0	0	0	0	0	0	-0.43	-0.47	1	1	0	900	900	0
6/6/2024 22:26	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:26	51004	NHAR_T1	1	1	0	6.6	6.4	-0.2	-1.52	-1.54	0	0	0	0	0	0
6/6/2024 22:26	60803	BUCK_T1	6	0	-6	0.2	0	-0.2	0.35	0.36	1	1	0	600	600	0
6/6/2024 22:26	54203	PENN_T1	6	18	12	0.63	0.49	-0.14	0	0	0	0	0	0	0	0
6/6/2024 22:26	67702	WERN_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
6/6/2024 22:26	52004	LING_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
6/6/2024 22:26	17802	GILB_T1	0	4	4	0	0.15	0.15	0.16	0.26	0	0	0	0	0	0
6/6/2024 22:26	54201	PENN_T1	3	3	0	1.13	1.2	0.07	-0.64	-0.6	0	0	0	0	0	0
6/6/2024 22:27	59003	MIFF_T1	0	1	1	0	0.6	0.6	-0.23	-0.24	0	0	0	0	0	0
6/6/2024 22:27	23403	HONE_T1	0	5	5	0	0.1	0.1	-0.55	-0.55	0	0	0	0	0	0
6/6/2024 22:27	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:27	10102	ALLE_T2	1	1	0	7.3	7.1	-0.2	0	0	0	0	0	0	0	0
6/6/2024 22:27	15703	TANN_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
6/6/2024 22:27	23201	HIRU_T2	21	0	-21	0.13	0	-0.13	0	0	0	0	0	0	0	0
6/6/2024 22:27	23202	HIRU_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
6/6/2024 22:27	60801	BUCK_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
6/6/2024 22:27	65004	NEFF_T2	0	0	0	0	0	0	-0.6	-0.61	1	1	0	600	600	0
6/6/2024 22:27	59002	MIFF_T1	1	6	5	0.2	0.58	0.38	0	0	0	0	0	0	0	0
6/6/2024 22:27	60305	TWVA_T2	0	0	0	0	0	0	2.89	2.71	0	0	0	0	0	0
6/6/2024 22:27	60803	BUCK_T1	6	0	-6	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/6/2024 22:27	15702	TANN_T2	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
6/6/2024 22:28	67602	WARW_T2	0	0	0	0	0	0	0.13	0.11	2	2	0	1500	1500	0
6/6/2024 22:28	60201	ATGL_T2	0	0	0	0	0	0	0.66	0.62	1	1	0	300	300	0
6/6/2024 22:28	20401	ASHF_T2	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
6/6/2024 22:28	24703	FLND_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
6/6/2024 22:28	61102	BERK_T5	0	0	0	0	0	0	-0.06	-0.09	2	2	0	1200	1200	0
6/6/2024 22:28	45902	AUBU_T1	0	0	0	0	0	0	-0.78	-0.86	1	1	0	600	600	0
6/6/2024 22:28	44201	POIN_T1	336	552	216	0.33	0.4	0.07	-2.49	-2.51	2	2	0	2100	2100	0
6/6/2024 22:28	10805	CHHI_T2	1	1	0	8.6	8.3	-0.3	-0.83	-0.85	1	1	0	600	600	0
6/6/2024 22:28	24205	PROV_T3	1	1	0	0.2	1.6	1.4	0	0	0	0	0	0	0	0
6/6/2024 22:28	17805	GILB_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
6/6/2024 22:28	24201	PROV_T3	1	1	0	7.7	7.9	0.2	-1.11	-1.13	1	1	0	1200	1200	0
6/6/2024 22:28	24204	PROV_T3	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
6/6/2024 22:28	24902	WHHA_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
6/6/2024 22:29	21206	ECAR_T2	1	1	0	7.6	8	0.4	0.29	0.23	0	0	0	0	0	0
6/6/2024 22:29	13503	MCMI_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
6/6/2024 22:29	64201	KINZ_T1	13	28	15	0.41	0.33	-0.08	2.33	1.5	4	2	-2	2400	600	-1800
6/6/2024 22:29	64902	MILL_T2	0	0	0	0	0	0	-0.22	-0.28	1	1	0	900	900	0
6/6/2024 22:29	46002	BERW_T2	0	0	0	0	0	0	-1.36	-1.37	1	1	0	900	900	0
6/6/2024 22:29	42902	MIDD_T2	0	0	0	0	0	0	-1.02	-0.9	1	1	0	600	600	0
6/6/2024 22:29	56801	BENV_T1	4	10	6	0.43	1.31	0.88	-0.64	-0.69	1	1	0	600	600	0
6/6/2024 22:29	63403	HONY_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
6/6/2024 22:29	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 22:29	65602	QVIL_T2	0	0	0	0	0	0	0.9	0.87	0	0	0	0	0	0
6/6/2024 22:29	64204	KINZ_T1	25	36	11	0.26	0.42	0.16	0	0	0	0	0	0	0	0
6/6/2024 22:29	64202	KINZ_T1	9	16	7	0.21	0.3	0.09	0	0	0	0	0	0	0	0
6/6/2024 22:29	10805	CHHI_T2	1	1	0	8.6	8.3	-0.3	-0.83	-0.85	1	1	0	600	600	0
6/6/2024 22:29	45901	AUBU_T1	0	0	0	0	0	0	1.88	1.94	0	0	0	0	0	0
6/6/2024 22:29	53501	EVIL_T2	1	2	1	1	0.75	-0.25	-0.86	-0.89	1	1	0	600	600	0
6/6/2024 22:29	52002	LING_T2	0	0	0	0	0	0	0.43	0.39	0	0	0	0	0	0
6/6/2024 22:29	63402	HONY_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/6/2024 22:29	43102	SMIL_T2	1	6	5	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/6/2024 22:29	43108	SMIL_T2	0	0	0	0	0	0	-1.12	-1.13	1	1	0	1200	1200	0
6/6/2024 22:29	43105	SMIL_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/6/2024 22:29	42903	MIDD_T2	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
6/6/2024 22:29	64203	KINZ_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 22:29	43103	SMIL_T2	2	4	2	0.25	0.38	0.13	-1.05	-1.06	0	0	0	0	0	0
6/6/2024 22:30	66504	SMAN_T2	0	0	0	0	0	0	-2.17	-2.3	2	2	0	2400	2400	0
6/6/2024 22:30	67502	WEWI_T2	0	0	0	0	0	0	-0.85	-0.98	1	1	0	900	900	0
6/6/2024 22:30	51101	CARL_T1	1	1	0	5.8	5.5	-0.3	-1.14	-1.16	1	1	0	600	600	0
6/6/2024 22:30	16401	MOPO_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
6/6/2024 22:30	40101	HUNT_T2	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
6/6/2024 22:30	45002	LIME_2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
6/6/2024 22:30	42701	AUGU_T1	51	14	-37	0.46	0.47	0.01	0	0	0	0	0	0	0	0
6/6/2024 22:30	60803	BUCK_T1	0	0	0	0	0	0	-0.35	-0.36	1	1	0	600	600	0
6/6/2024 22:30	41301	FISH_T1	1	1	0	1.7	1.8	0.1	0.04	0.03	0	0	0	0	0	0
6/6/2024 22:30	45001	LIME_2	16	27	11	0.27	0.34	0.07	0	0	0	0	0	0	0	0
6/6/2024 22:30	43105	SMIL_T2	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
6/6/2024 22:30	51102	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 22:30	13503	MCMI_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
6/6/2024 22:30	60501	NMAN_T2	3	3	0	4.1	4.6	0.5	0	0	0	0	0	0	0	0
6/6/2024 22:30	43103	SMIL_T2	4	4	0	0.25	0.38	0.13	0	0	0	0	0	0	0	0
6/6/2024 22:30	54505	ENOL_T2	0	1	1	0	0.3	0.3	-0.92	-0.94	1	1	0	600	600	0
6/6/2024 22:30	61506	EPET_T2	0	0	0	0	0	0	-1.83	-1.91	2	2	0	1800	1800	0
6/6/2024 22:30	67602	WARW_T2	0	0	0	0	0	0	0.13	0.11	2	2	0	1500	1500	0
6/6/2024 22:30	11104	EGYP_T1	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
6/6/2024 22:30	61501	EPET_T2	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
6/6/2024 22:30	48302	ORWI_T2	2	2	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
6/6/2024 22:30	45003	LIME_2	2	2	0	2	1.95	-0.05	0.48	0.46	0	0	0	0	0	0
6/6/2024 22:30	56801	BENV_T1	10	12	2	0.93	1.49	0.56	-0.64	-0.69	1	1	0	600	600	0
6/6/2024 22:30	12302	LANA_T2	0	0	0	0	0	0	-2.24	-2.29	3	3	0	2700	2700	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/6/2024 22:30	55002	NEWP_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
6/6/2024 22:30	60502	NMAN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
6/6/2024 22:30	56802	BENV_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
6/6/2024 22:30	52102	MEIS_T1	12	0	-12	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/6/2024 22:30	53901	HALI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/6/2024 22:30	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
6/6/2024 22:30	16102	BING_T2	2	2	0	0.2	0.2	0	0.63	0.61	0	0	0	0	0	0
6/6/2024 22:30	52101	MEIS_T1	2	2	0	0.75	1	0.25	0	0	0	0	0	0	0	0
6/6/2024 22:30	43102	SMIL_T2	5	6	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
6/6/2024 22:30	41303	FISH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
6/6/2024 22:30	52004	LING_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
6/6/2024 22:30	53903	HALI_T2	2	0	-2	0.4	0	-0.4	-0.07	-0.07	0	0	0	0	0	0
6/6/2024 22:30	43108	SMIL_T2	0	0	0	0	0	0	-1.12	-1.13	1	1	0	1200	1200	0
6/6/2024 22:30	51401	LYKE_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/6/2024 22:31	56801	BENV_T1	10	12	2	0.93	1.49	0.56	-0.64	-0.69	1	1	0	600	600	0
6/6/2024 22:31	64203	KINZ_T1	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/6/2024 22:31	60803	BUCK_T1	0	0	0	0	0	0	-0.35	-0.36	1	1	0	600	600	0
6/6/2024 22:31	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:31	45902	AUBU_T1	0	0	0	0	0	0	-1.56	-1.71	2	2	0	1200	1200	0
6/6/2024 22:31	44301	BEAV_T2	0	0	0	0	0	0	0.23	0.24	1	1	0	600	600	0
6/6/2024 22:31	52404	GRPA_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
6/6/2024 22:31	52402	GRPA_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
6/6/2024 22:31	44201	POIN_T1	469	533	64	0.36	0.4	0.04	-2.49	-2.51	2	2	0	2100	2100	0
6/6/2024 22:31	66203	SISP_T2	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
6/6/2024 22:31	40101	HUNT_T2	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
6/6/2024 22:31	67703	WERN_T2	0	0	0	0	0	0	-0.86	-0.93	2	2	0	1800	1800	0
6/6/2024 22:31	64202	KINZ_T1	16	2	-14	0.3	0.35	0.05	0	0	0	0	0	0	0	0
6/6/2024 22:31	10204	ALLE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:31	59301	MCAL_T1	2	2	0	1	1.4	0.4	0	0	0	0	0	0	0	0
6/6/2024 22:31	52403	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/6/2024 22:31	60201	ATGL_T2	0	0	0	0	0	0	0.66	0.62	1	1	0	300	300	0
6/6/2024 22:31	60101	COCA_T1	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
6/6/2024 22:31	61102	BERK_T5	0	0	0	0	0	0	-0.12	-0.18	4	4	0	2400	2400	0
6/6/2024 22:31	66201	SISP_T2	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
6/6/2024 22:31	64201	KINZ_T1	28	5	-23	0.33	0.34	0.01	-0.17	0.75	2	1	-1	1200	300	-900
6/6/2024 22:31	65603	QVIL_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
6/6/2024 22:31	67603	WARW_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
6/6/2024 22:31	64902	MILL_T2	0	0	0	0	0	0	-0.22	-0.28	1	1	0	900	900	0
6/6/2024 22:31	10102	ALLE_T2	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
6/6/2024 22:31	59302	MCAL_T1	0	0	0	0	0	0	-0.75	-0.76	1	1	0	600	600	0
6/6/2024 22:31	64204	KINZ_T1	36	5	-31	0.42	0.28	-0.14	0	0	0	0	0	0	0	0
6/6/2024 22:31	55001	NEWP_T1	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
6/6/2024 22:31	20403	ASHF_T2	0	0	0	0	0	0	0.98	0.87	0	0	0	0	0	0
6/6/2024 22:31	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 22:31	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/6/2024 22:32	13704	SCHN_T2	0	0	0	0	0	0	0.04	-0.11	0	0	0	0	0	0
6/6/2024 22:32	55002	NEWP_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
6/6/2024 22:32	43301	WATS_T2	0	1	1	0	0.8	0.8	0.5	-0.5	0	1	1	0	900	900
6/6/2024 22:32	64904	MILL_T1	0	0	0	0	0	0	0.2	0.05	0	0	0	0	0	0
6/6/2024 22:32	15703	TANN_T2	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
6/6/2024 22:32	60502	NMAN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
6/6/2024 22:32	45003	LIME_2	2	2	0	2	1.95	-0.05	0.95	0.91	0	0	0	0	0	0
6/6/2024 22:32	40802	EXCH_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
6/6/2024 22:32	50107	HARR_T3	1	1	0	7.1	6.8	-0.3	0.74	0.74	0	0	0	0	0	0
6/6/2024 22:32	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:32	10805	CHHI_T2	1	1	0	8.6	8.2	-0.4	-0.83	-0.85	1	1	0	600	600	0
6/6/2024 22:32	45902	AUBU_T1	0	0	0	0	0	0	-0.78	-0.86	1	1	0	600	600	0
6/6/2024 22:32	12301	LANA_T2	0	0	0	0	0	0	-1.03	-1.06	1	1	0	1200	1200	0
6/6/2024 22:32	45001	LIME_2	16	27	11	0.27	0.34	0.07	0	0	0	0	0	0	0	0
6/6/2024 22:32	50105	HARR_T3	6	6	0	6.27	5.83	-0.44	0	0	0	0	0	0	0	0
6/6/2024 22:32	45002	LIME_2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
6/6/2024 22:32	64901	MILL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/6/2024 22:32	43302	WATS_T2	3	4	1	0.13	0.43	0.3	0	0	0	0	0	0	0	0
6/6/2024 22:32	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
6/6/2024 22:32	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
6/6/2024 22:32	67702	WERN_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
6/6/2024 22:32	60501	NMAN_T2	3	3	0	4.1	4.6	0.5	0	0	0	0	0	0	0	0
6/6/2024 22:32	46101	MACI_T2	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
6/6/2024 22:32	63401	HONY_T1	0	0	0	0	0	0	0.27	0.21	1	1	0	600	600	0
6/6/2024 22:32	14801	TREI_T2	0	0	0	0	0	0	0.8	0.81	0	0	0	0	0	0
6/6/2024 22:32	67703	WERN_T2	0	0	0	0	0	0	-0.43	-0.47	1	1	0	900	900	0
6/6/2024 22:32	61102	BERK_T5	0	0	0	0	0	0	-0.12	-0.18	4	4	0	2400	2400	0
6/6/2024 22:32	67605	WARW_T1	0	0	0	0	0	0	-1.01	-1.07	0	0	0	0	0	0
6/6/2024 22:32	50201	HARR_T3	1	2	1	9.2	5.05	-4.15	0	0	0	0	0	0	0	0
6/6/2024 22:32	56801	BENV_T1	10	12	2	0.93	1.49	0.56	-0.64	-0.69	1	1	0	600	600	0
6/6/2024 22:32	53901	HALI_T2	1	1	0	0.1	0.2	0.1	-1.2	-1.22	0	0	0	0	0	0
6/6/2024 22:32	53903	HALI_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/6/2024 22:32	56501	ROCK_T2	2	4	2	1.75	0.3	-1.45	-0.78	-0.82	0	0	0	0	0	0
6/6/2024 22:32	15702	TANN_T2	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
6/6/2024 22:32	54203	PENN_T1	17	18	1	0.29	0.57	0.28	0.41	0.4	0	0	0	0	0	0
6/6/2024 22:33	10805	CHHI_T2	1	1	0	8.6	8.2	-0.4	-0.83	-0.85	1	1	0	600	600	0
6/6/2024 22:33	67502	WEWI_T2	0	0	0	0	0	0	-0.85	-0.98	1	1	0	900	900	0
6/6/2024 22:33	43103	SMIL_T2	4	4	0	0.25	0.38	0.13	0	0	0	0	0	0	0	0
6/6/2024 22:33	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:33	45002	LIME_2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
6/6/2024 22:33	46801	HEPB_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/6/2024 22:33	67702	WERN_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
6/6/2024 22:33	52002	LING_T2	0	0	0	0	0	0	0.43	0.39	0	0	0	0	0	0
6/6/2024 22:33	46206	DANV_T2	2	2	0	0.5	0.35	-0.15	3.46	3.44	1	1	0	1200	1200	0
6/6/2024 22:33	43108	SMIL_T2	0	0	0	0	0	0	-1.12	-1.13	1	1	0	1200	1200	0
6/6/2024 22:33	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:33	66504	SMAN_T2	0	0	0	0	0	0	-1.09	-1.15	1	1	0	1200	1200	0
6/6/2024 22:33	13702	SCHN_T1	0	0	0	0	0	0	1.14	1.12	0	0	0	0	0	0
6/6/2024 22:33	43105	SMIL_T2	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
6/6/2024 22:33	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:33	48302	ORWI_T2	2	2	0	0.95	1.25	0.3	-0.43	-0.45	0	0	0	0	0	0
6/6/2024 22:33	44201	POIN_T1	469	533	64	0.36	0.4	0.04	-2.49	-2.51	2	2	0	2100	2100	0
6/6/2024 22:33	64101	REFR_T1	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
6/6/2024 22:33	56501	ROCK_T2	2	4	2	1.75	0.3	-1.45	-1.56	-1.64	0	0	0	0	0	0
6/6/2024 22:33	22903	HARW_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/6/2024 22:33	45001	LIME_2	16	27	11	0.27	0.34	0.07	0	0	0	0	0	0	0	0
6/6/2024 22:33	46803	HEPB_T2	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
6/6/2024 22:33	42903	MIDD_T2	2	2	0	1.05	1.3	0.25	-1.22	-1.37	1	1	0	1200	1200	0
6/6/2024 22:33	40302	TAMA_T3	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
6/6/2024 22:33	63401	HONY_T1	0	0	0	0	0	0	0.27	0.21	1	1	0	600	600	0
6/6/2024 22:33	45902	AUBU_T1	0	0	0	0	0	0	-0.78	-0.86	1	1	0	600	600	0
6/6/2024 22:33	44203	POIN_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/6/2024 22:33	59101	WALK_T2	0	0	0	0	0	0	0.42	0.86	2	1	-1	1200	600	-600
6/6/2024 22:33	44202	POIN_T2	0	0	0	0	0	0	-0.39	-0.44	1	1	0	1200	1200	0
6/6/2024 22:33	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:33	43102	SMIL_T2	5	6	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
6/6/2024 22:33	22901	HARW_T1	0	0	0	0	0	0	-0.32	-0.36	1	1	0	1200	1200	0
6/6/2024 22:33	45003	LIME_2	2	2	0	2	1.95	-0.05	0.48	0.46	0	0	0	0	0	0
6/6/2024 22:33	54201	PENN_T1	3	5	2	0.83	0.8	-0.03	0	0	0	0	0	0	0	0
6/6/2024 22:33	57401	SPAN_T1	0	0	0	0	0	0	-0.86	-0.64	1	1	0	600	600	0
6/6/2024 22:34	67303	WYOM_T2	0	0	0	0	0	0	-0.81	-0.87	0	0	0	0	0	0
6/6/2024 22:34	60101	COCA_T1	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
6/6/2024 22:34	43108	SMIL_T2	0	0	0	0	0	0	-1.12	-1.13	1	1	0	1200	1200	0
6/6/2024 22:34	43103	SMIL_T2	4	4	0	0.25	0.38	0.13	-0.52	-0.53	0	0	0	0	0	0
6/6/2024 22:34	49804	UNIV_T1	1	3	2	1.8	0.1	-1.7	0	0	0	0	0	0	0	0
6/6/2024 22:34	55101	WERT_T1	0	0	0	0	0	0	-1.88	-1.9	3	3	0	2400	2400	0
6/6/2024 22:34	43105	SMIL_T2	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
6/6/2024 22:34	60201	ATGL_T2	0	0	0	0	0	0	1.33	1.25	2	2	0	600	600	0
6/6/2024 22:34	56501	ROCK_T2	2	4	2	1.75	0.3	-1.45	-0.78	-0.82	0	0	0	0	0	0
6/6/2024 22:34	64902	MILL_T2	0	0	0	0	0	0	-0.22	-0.28	1	1	0	900	900	0
6/6/2024 22:34	56801	BENV_T1	10	12	2	0.93	1.49	0.56	-1.93	-2.07	3	3	0	1800	1800	0
6/6/2024 22:34	52403	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/6/2024 22:34	24201	PROV_T3	1	1	0	7.9	8	0.1	-1.11	-1.13	1	1	0	1200	1200	0
6/6/2024 22:34	52004	LING_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
6/6/2024 22:34	25503	MADI_T1	104	86	-18	0.4	0.31	-0.09	-0.79	-0.81	0	0	0	0	0	0
6/6/2024 22:34	12701	MACU_T1	0	0	0	0	0	0	-0.97	-0.98	1	1	0	1200	1200	0
6/6/2024 22:34	53501	EVIL_T2	2	2	0	0.7	0.8	0.1	-0.86	-0.89	1	1	0	600	600	0
6/6/2024 22:34	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/6/2024 22:34	49803	UNIV_T1	0	0	0	0	0	0	-0.78	-0.91	0	0	0	0	0	0
6/6/2024 22:34	50701	SMEC_T1	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
6/6/2024 22:34	67204	TEHI_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
6/6/2024 22:34	24204	PROV_T3	1	1	0	6.4	6.1	-0.3	0	0	0	0	0	0	0	0
6/6/2024 22:34	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/6/2024 22:34	52402	GRPA_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
6/6/2024 22:34	67605	WARW_T1	0	0	0	0	0	0	-1.01	-1.07	0	0	0	0	0	0
6/6/2024 22:34	52404	GRPA_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
6/6/2024 22:34	51101	CARL_T1	1	1	0	5.8	5.5	-0.3	-1.14	-1.16	1	1	0	600	600	0
6/6/2024 22:34	43102	SMIL_T2	5	6	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
6/6/2024 22:34	13503	MCMI_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
6/6/2024 22:34	24205	PROV_T3	1	1	0	0.7	2.1	1.4	0	0	0	0	0	0	0	0
6/6/2024 22:34	51102	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 22:34	46001	BERW_T1	0	0	0	0	0	0	0.87	0.84	0	0	0	0	0	0
6/6/2024 22:34	64101	REFR_T1	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
6/6/2024 22:34	62102	ELAN_T1	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
6/6/2024 22:34	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:35	58003	WCAR_T1	1	1	0	0.8	1.2	0.4	0.87	0.86	0	0	0	0	0	0
6/6/2024 22:35	55101	WERT_T1	0	0	0	0	0	0	-1.88	-1.9	3	3	0	2400	2400	0
6/6/2024 22:35	11104	EGYP_T1	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
6/6/2024 22:35	58001	WCAR_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
6/6/2024 22:35	44601	SALE_T2	0	1	1	0	0.2	0.2	0.01	0	0	0	0	0	0	0
6/6/2024 22:35	56801	BENV_T1	10	12	2	0.93	1.49	0.56	-0.64	-0.69	1	1	0	600	600	0
6/6/2024 22:35	46001	BERW_T1	0	0	0	0	0	0	0.87	0.84	0	0	0	0	0	0
6/6/2024 22:35	40502	CRES_T2	13	8	-5	0.2	0.13	-0.07	-0.68	-0.76	0	0	0	0	0	0
6/6/2024 22:35	45502	DERR_T2	0	0	0	0	0	0	-1.08	-1.09	0	0	0	0	0	0
6/6/2024 22:35	39601	LNFD_T1	0	1	1	0	0	0	0	0	1	1	0	900	900	0
6/6/2024 22:35	43402	BENT_T1	0	1	1	0	0.1	0.1	-0.86	-0.87	1	1	0	900	900	0
6/6/2024 22:35	46206	DANV_T2	2	2	0	0.5	0.35	-0.15	3.46	3.44	1	1	0	1200	1200	0
6/6/2024 22:35	67605	WARW_T1	0	0	0	0	0	0	-1.01	-1.07	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/6/2024 22:35	56501	ROCK_T2	2	4	2	1.75	0.3	-1.45	-0.78	-0.82	0	0	0	0	0	0
6/6/2024 22:35	51505	SWAT_T2	0	0	0	0	0	0	0.87	0.81	0	0	0	0	0	0
6/6/2024 22:35	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:35	16102	BING_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/6/2024 22:35	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	-0.58	-0.69	0	0	0	0	0	0
6/6/2024 22:35	16103	BING_T2	0	0	0	0	0	0	-1.54	-1.57	2	2	0	1500	1500	0
6/6/2024 22:35	45501	DERR_T2	0	0	0	0	0	0	-0.3	-0.3	2	2	0	1800	1800	0
6/6/2024 22:36	41902	REED_T1	1	0	-1	0.2	0	-0.2	1.09	1.07	0	0	0	0	0	0
6/6/2024 22:36	24602	VARD_T2	496	545	49	0.9	1.01	0.11	-0.98	-0.99	0	0	0	0	0	0
6/6/2024 22:36	63401	HONY_T1	0	0	0	0	0	0	0.21	0.24	1	1	0	600	600	0
6/6/2024 22:36	41901	REED_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/6/2024 22:36	56801	BENV_T1	10	12	2	0.93	1.49	0.56	-0.64	-0.69	1	1	0	600	600	0
6/6/2024 22:36	43301	WATS_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/6/2024 22:36	67204	TEHI_T2	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
6/6/2024 22:36	43104	SMIL_T2	0	0	0	0	0	0	-1.17	-1.19	2	2	0	600	600	0
6/6/2024 22:36	67801	WLAN_T1	0	0	0	0	0	0	-0.05	-0.12	0	0	0	0	0	0
6/6/2024 22:36	43103	SMIL_T2	4	4	0	0.25	0.38	0.13	0	0	0	0	0	0	0	0
6/6/2024 22:36	45501	DERR_T2	0	0	0	0	0	0	-0.6	-0.46	4	4	0	3600	3600	0
6/6/2024 22:36	61502	EPET_T1	0	0	0	0	0	0	-1.82	-1.91	0	0	0	0	0	0
6/6/2024 22:36	63305	GREE_T1	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/6/2024 22:36	43304	WATS_T2	0	0	0	0	0	0	-0.16	-0.25	0	0	0	0	0	0
6/6/2024 22:36	53502	EVIL_T2	0	0	0	0	0	0	0.41	0.4	1	1	0	600	600	0
6/6/2024 22:36	43105	SMIL_T2	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
6/6/2024 22:36	53501	EVIL_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/6/2024 22:36	43302	WATS_T2	3	4	1	0.13	0.43	0.3	0	0	0	0	0	0	0	0
6/6/2024 22:36	43102	SMIL_T2	5	6	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
6/6/2024 22:36	54203	PENN_T1	17	18	1	0.29	0.57	0.28	0	0	0	0	0	0	0	0
6/6/2024 22:36	54201	PENN_T1	3	5	2	0.83	0.8	-0.03	-0.64	-0.6	0	0	0	0	0	0
6/6/2024 22:36	63304	GREE_T1	0	0	0	0	0	0	-1.28	-1.33	0	0	0	0	0	0
6/6/2024 22:36	24603	VARD_T2	12	16	4	0.28	0.36	0.08	0	0	0	0	0	0	0	0
6/6/2024 22:36	67203	TEHI_T1	0	0	0	0	0	0	1.89	1.85	3	3	0	2100	2100	0
6/6/2024 22:36	45902	AUBU_T1	0	0	0	0	0	0	-0.78	-0.86	1	1	0	600	600	0
6/6/2024 22:36	13503	MCMI_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
6/6/2024 22:36	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:36	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
6/6/2024 22:36	23001	SAJO_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
6/6/2024 22:37	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/6/2024 22:37	50502	MECH_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
6/6/2024 22:37	64201	KINZ_T1	28	5	-23	0.33	0.34	0.01	0	0	0	0	0	0	0	0
6/6/2024 22:37	64203	KINZ_T1	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/6/2024 22:37	64202	KINZ_T1	16	2	-14	0.3	0.35	0.05	1.1	1.03	0	0	0	0	0	0
6/6/2024 22:37	61701	ELIZ_T1	1	1	0	3.1	3.4	0.3	0.76	0.75	0	0	0	0	0	0
6/6/2024 22:37	46803	HEPB_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
6/6/2024 22:37	15702	TANN_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
6/6/2024 22:37	52403	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/6/2024 22:37	57304	MOAL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 22:37	20403	ASHF_T2	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
6/6/2024 22:37	64204	KINZ_T1	36	5	-31	0.42	0.28	-0.14	0	0	0	0	0	0	0	0
6/6/2024 22:37	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 22:37	57303	MOAL_T2	1	1	0	8.3	7.2	-1.1	0	0	0	0	0	0	0	0
6/6/2024 22:37	50506	MECH_T1	0	0	0	0	0	0	0.61	0.68	0	0	0	0	0	0
6/6/2024 22:37	67605	WARW_T1	0	0	0	0	0	0	-1.07	-1.12	0	0	0	0	0	0
6/6/2024 22:37	52402	GRPA_T2	0	4	4	0	0.28	0.28	-0.63	-0.59	0	0	0	0	0	0
6/6/2024 22:37	44601	SALE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 22:37	50501	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 22:37	15703	TANN_T2	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
6/6/2024 22:37	54203	PENN_T1	17	18	1	0.29	0.57	0.28	0.4	0.4	0	0	0	0	0	0
6/6/2024 22:37	52501	PROG_T1	0	0	0	0	0	0	0.75	0.73	1	1	0	300	300	0
6/6/2024 22:37	46801	HEPB_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/6/2024 22:37	67602	WARW_T2	0	0	0	0	0	0	0.11	0.08	2	2	0	1500	1500	0
6/6/2024 22:37	54201	PENN_T1	3	5	2	0.83	0.8	-0.03	0	0	0	0	0	0	0	0
6/6/2024 22:37	21203	ECAR_T1	0	0	0	0	0	0	-0.35	0.62	0	0	0	0	0	0
6/6/2024 22:37	57302	MOAL_T2	0	0	0	0	0	0	-1.23	-1.25	1	1	0	1200	1200	0
6/6/2024 22:37	56802	BENV_T2	0	0	0	0	0	0	-0.46	-0.5	0	0	0	0	0	0
6/6/2024 22:37	56801	BENV_T1	10	12	2	0.93	1.49	0.56	-2.07	-2.21	3	3	0	1800	1800	0
6/6/2024 22:38	59003	MIFF_T1	1	1	0	0.6	0.6	0	-0.24	-0.26	0	0	0	0	0	0
6/6/2024 22:38	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:38	10805	OHHI_T2	1	1	0	8.6	8.2	-0.4	-0.85	-0.94	1	1	0	600	600	0
6/6/2024 22:38	12801	MICK_T1	0	0	0	0	0	0	-0.82	-0.85	1	1	0	600	600	0
6/6/2024 22:38	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:38	67602	WARW_T2	0	0	0	0	0	0	0.11	0.08	2	2	0	1500	1500	0
6/6/2024 22:38	64303	LINC_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
6/6/2024 22:38	56501	ROCK_T2	2	4	2	1.75	0.3	-1.45	-0.82	-0.86	0	0	0	0	0	0
6/6/2024 22:38	43103	SMIL_T2	4	4	0	0.25	0.38	0.13	-0.53	-0.64	0	0	0	0	0	0
6/6/2024 22:38	43102	SMIL_T2	5	6	1	0.3	0.27	-0.03	-0.62	-0.63	1	1	0	600	600	0
6/6/2024 22:38	46801	HEPB_T2	2	0	-2	0.2	0	-0.2	0.78	0.77	0	0	0	0	0	0
6/6/2024 22:38	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:38	65604	QVIL_T2	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
6/6/2024 22:38	61102	BERK_T5	0	0	0	0	0	0	-0.18	-0.24	4	4	0	2400	2400	0
6/6/2024 22:38	52501	PROG_T1	0	0	0	0	0	0	1.5	1.46	2	2	0	600	600	0
6/6/2024 22:38	67702	WERN_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/6/2024 22:38	56802	BENV_T2	0	0	0	0	0	0	-0.92	-0.99	0	0	0	0	0	0
6/6/2024 22:38	24902	WHHA_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
6/6/2024 22:38	44203	POIN_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/6/2024 22:38	59002	MIFF_T1	6	6	0	0.57	0.57	0	0	0	0	0	0	0	0	0
6/6/2024 22:38	44202	POIN_T2	0	0	0	0	0	0	-0.44	-0.47	1	1	0	1200	1200	0
6/6/2024 22:38	43201	MVIL_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
6/6/2024 22:38	60101	COCA_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
6/6/2024 22:38	43105	SMIL_T2	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
6/6/2024 22:38	12803	MICK_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/6/2024 22:38	43202	MVIL_T2	48	74	26	0.28	0.53	0.25	0	0	0	0	0	0	0	0
6/6/2024 22:38	59101	WALK_T2	0	0	0	0	0	0	0.86	1.19	1	1	0	600	600	0
6/6/2024 22:39	56501	ROCK_T2	2	4	2	1.75	0.3	-1.45	-1.64	-1.72	0	0	0	0	0	0
6/6/2024 22:39	43302	WATS_T2	3	4	1	0.13	0.43	0.3	0	0	0	0	0	0	0	0
6/6/2024 22:39	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:39	10805	OHHI_T2	1	1	0	8.6	8.2	-0.4	-0.85	-0.94	1	1	0	600	600	0
6/6/2024 22:39	42701	AUGU_T1	51	14	-37	0.46	0.47	0.01	0	0	0	0	0	0	0	0
6/6/2024 22:39	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:39	10801	OHHI_T1	0	0	0	0	0	0	-1.6	-1.63	3	3	0	2100	2100	0
6/6/2024 22:39	56803	BENV_T1	0	0	0	0	0	0	0.02	0.01	1	1	0	600	600	0
6/6/2024 22:39	56802	BENV_T2	0	0	0	0	0	0	-0.46	-0.5	0	0	0	0	0	0
6/6/2024 22:39	52403	GRPA_T2	2	0	-2	0.2	0	-0.2	0.29	0.28	0	0	0	0	0	0
6/6/2024 22:39	56801	BENV_T1	10	12	2	0.93	1.49	0.56	-0.69	-0.74	1	1	0	600	600	0
6/6/2024 22:39	67602	WARW_T2	0	0	0	0	0	0	0.11	0.08	2	2	0	1500	1500	0
6/6/2024 22:39	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/6/2024 22:39	64801	MONE_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/6/2024 22:39	43202	MVIL_T2	48	74	26	0.28	0.53	0.25	-0.65	-0.65	0	0	0	0	0	0
6/6/2024 22:39	58401	MORO_T1	0	0	0	0	0	0	-0.74	-0.76	1	1	0	600	600	0
6/6/2024 22:39	20403	ASHF_T2	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
6/6/2024 22:39	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/6/2024 22:39	40901	JESH_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/6/2024 22:39	61102	BERK_T5	0	0	0	0	0	0	-0.09	-0.12	2	2	0	1200	1200	0
6/6/2024 22:39	46206	DANV_T2	2	0	-2	0.5	0.35	-0.15	3.44	3.41	1	1	0	1200	1200	0
6/6/2024 22:39	63804	HEMP_T1	1	1	0	5	6.1	1.1	0.03	0.02	0	0	0	0	0	0
6/6/2024 22:39	64101	REFR_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
6/6/2024 22:39	59101	WALK_T2	0	0	0	0	0	0	0.86	1.19	1	1	0	600	600	0
6/6/2024 22:39	54601	SUMM_T2	0	0	0	0	0	0	-1.59	-1.58	2	2	0	2100	2100	0
6/6/2024 22:39	40902	JESH_T1	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
6/6/2024 22:39	50701	SMEC_T1	0	0	0	0	0	0	-0.34	-0.42	0	0	0	0	0	0
6/6/2024 22:39	52402	GRPA_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
6/6/2024 22:39	64802	MONE_T2	0	0	0	0	0	0	0.12	0.46	0	0	0	0	0	0
6/6/2024 22:39	56504	ROCK_T2	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
6/6/2024 22:39	11804	FRAN_T1	1	1	0	0.5	0.1	-0.4	0.89	0.89	0	0	0	0	0	0
6/6/2024 22:39	43301	WATS_T2	0	1	1	0	0.8	0.8	-0.5	-0.51	1	1	0	900	900	0
6/6/2024 22:40	24102	EHAZ_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/6/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
6/6/2024 22:40	13503	MCMI_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
6/6/2024 22:40	58001	WCAR_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
6/6/2024 22:40	24105	EHAZ_T1	4	4	0	6.3	5.8	-0.5	0	0	0	0	0	0	0	0
6/6/2024 22:40	12701	MACU_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	1200	1200	0
6/6/2024 22:40	46801	HEPB_T2	2	0	-2	0.2	0	-0.2	0.78	0.77	0	0	0	0	0	0
6/6/2024 22:40	52102	MEIS_T1	12	0	-12	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/6/2024 22:40	58701	ROSE_T2	0	0	0	0	0	0	-1.15	-1.17	1	1	0	600	600	0
6/6/2024 22:40	24104	EHAZ_T1	0	0	0	0	0	0	-0.81	-0.82	1	1	0	1200	1200	0
6/6/2024 22:40	54505	ENOL_T2	0	1	1	0	0.3	0.3	-0.94	-0.96	1	1	0	600	600	0
6/6/2024 22:40	44801	EDAN_T2	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
6/6/2024 22:40	58706	ROSE_T2	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
6/6/2024 22:40	55002	NEWP_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
6/6/2024 22:40	44201	POIN_T1	469	533	64	0.36	0.4	0.04	-2.51	-1.51	2	1	-1	2100	1200	-900
6/6/2024 22:40	52101	MEIS_T1	2	2	0	0.75	1	0.25	0	0	0	0	0	0	0	0
6/6/2024 22:40	58003	WCAR_T1	1	1	0	0.8	1.2	0.4	0.86	0.85	0	0	0	0	0	0
6/6/2024 22:40	24101	EHAZ_T1	1	7	6	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/6/2024 22:40	58705	ROSE_T2	5	5	0	1.44	1.96	0.52	0	0	0	0	0	0	0	0
6/6/2024 22:40	53501	EVIL_T2	2	2	0	0.7	0.8	0.1	-0.89	-0.92	1	1	0	600	600	0
6/6/2024 22:40	57006	WHHI_T2	0	0	0	0	0	0	-0.37	-0.37	1	1	0	600	600	0
6/6/2024 22:40	58102	NEKI_T1	1	1	0	0.6	1	0.4	-0.52	-0.48	0	0	0	0	0	0
6/6/2024 22:40	45902	AUBU_T1	0	0	0	0	0	0	-0.86	-0.77	1	1	0	600	600	0
6/6/2024 22:40	67702	WERN_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/6/2024 22:41	58003	WCAR_T1	1	1	0	0.8	1.2	0.4	0.86	0.85	0	0	0	0	0	0
6/6/2024 22:41	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:41	46001	BERW_T1	0	0	0	0	0	0	0.84	0.81	0	0	0	0	0	0
6/6/2024 22:41	43103	SMIL_T2	4	4	0	0.25	0.38	0.13	0	0	0	0	0	0	0	0
6/6/2024 22:41	64202	KINZ_T1	16	2	-14	0.3	0.35	0.05	0	0	0	0	0	0	0	0
6/6/2024 22:41	56801	BENV_T1	10	12	2	0.93	1.49	0.56	-0.69	-0.74	1	1	0	600	600	0
6/6/2024 22:41	56501	ROCK_T2	2	4	2	1.75	0.3	-1.45	-0.82	-0.86	0	0	0	0	0	0
6/6/2024 22:41	43104	SMIL_T2	0	0	0	0	0	0	-0.58	-0.59	1	1	0	300	300	0
6/6/2024 22:41	67204	TEHI_T2	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
6/6/2024 22:41	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:41	64101	REFR_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
6/6/2024 22:41	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:41	45501	DERR_T2	0	0	0	0	0	0	-0.6	-0.46	4	4	0	3600	3600	0
6/6/2024 22:41	17804	GILB_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
6/6/2024 22:41	43105	SMIL_T2	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/6/2024 22:41	24702	FLND_T2	0	0	0	0	0	0	1.38	0.08	0	1	1	0	1200	1200
6/6/2024 22:41	64203	KINZ_T1	5	0	-5	0.1	0	-0.1	0.2	0.07	1	1	0	600	600	0
6/6/2024 22:41	58001	WCAR_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
6/6/2024 22:41	43102	SMIL_T2	5	6	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
6/6/2024 22:41	46206	DANV_T2	2	2	0	0.5	0.35	-0.15	6.87	6.83	2	2	0	2400	2400	0
6/6/2024 22:41	64204	KINZ_T1	36	5	-31	0.42	0.28	-0.14	0	0	0	0	0	0	0	0
6/6/2024 22:41	64201	KINZ_T1	28	5	-23	0.33	0.34	0.01	0	0	0	0	0	0	0	0
6/6/2024 22:41	52002	LING_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
6/6/2024 22:41	60201	ATGL_T2	0	0	0	0	0	0	0.62	0.56	1	1	0	300	300	0
6/6/2024 22:42	56801	BENV_T1	10	12	2	0.93	1.49	0.56	-0.69	-0.74	1	1	0	600	600	0
6/6/2024 22:42	52403	GRPA_T2	2	0	-2	0.2	0	-0.2	0.59	0.56	0	0	0	0	0	0
6/6/2024 22:42	53901	HALI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/6/2024 22:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:42	52102	MEIS_T1	12	0	-12	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/6/2024 22:42	67402	WAKE_T2	0	0	0	0	0	0	-0.06	-0.07	1	1	0	600	600	0
6/6/2024 22:42	24801	VALM_T1	0	0	0	0	0	0	-0.18	-0.26	0	0	0	0	0	0
6/6/2024 22:42	52402	GRPA_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
6/6/2024 22:42	53903	HALI_T2	2	0	-2	0.4	0	-0.4	-0.07	-0.07	0	0	0	0	0	0
6/6/2024 22:42	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
6/6/2024 22:42	23001	SAJO_T1	0	0	0	0	0	0	0.18	0.07	0	0	0	0	0	0
6/6/2024 22:42	65901	SAKR_T2	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0	0
6/6/2024 22:42	65902	SAKR_T2	0	0	0	0	0	0	-0.52	-0.53	1	1	0	300	300	0
6/6/2024 22:42	40502	CRES_T2	13	8	-5	0.2	0.13	-0.07	-0.76	-0.21	0	0	0	0	0	0
6/6/2024 22:42	64101	REFR_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
6/6/2024 22:42	46102	MACI_T1	0	0	0	0	0	0	0.94	0.92	0	0	0	0	0	0
6/6/2024 22:42	63302	GREE_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
6/6/2024 22:42	52101	MEIS_T1	2	2	0	0.75	1	0.25	0	0	0	0	0	0	0	0
6/6/2024 22:42	42201	SHEN_T2	0	0	0	0	0	0	0.14	0.13	1	1	0	600	600	0
6/6/2024 22:42	67401	WAKE_T2	11	0	-11	0.12	0	-0.12	0	0	0	0	0	0	0	0
6/6/2024 22:42	46206	DANV_T2	2	2	0	0.5	0.35	-0.15	3.44	3.41	1	1	0	1200	1200	0
6/6/2024 22:42	56802	BENV_T2	0	0	0	0	0	0	-0.46	-0.5	0	0	0	0	0	0
6/6/2024 22:42	63304	GREE_T1	0	0	0	0	0	0	-1.28	-1.33	0	0	0	0	0	0
6/6/2024 22:42	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/6/2024 22:42	67702	WERN_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/6/2024 22:42	63305	GREE_T1	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/6/2024 22:42	55101	WERT_T1	0	0	0	0	0	0	-5.7	-5.75	9	9	0	7200	7200	0
6/6/2024 22:42	45802	HEGI_T2	24	47	23	0.53	0.89	0.36	0	0	1	1	0	900	900	0
6/6/2024 22:42	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:43	59101	WALK_T2	0	0	0	0	0	0	1.72	2.38	2	2	0	1200	1200	0
6/6/2024 22:43	50701	SMEC_T1	0	0	0	0	0	0	0.34	0.42	0	0	0	0	0	0
6/6/2024 22:43	43301	WATS_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/6/2024 22:43	43302	WATS_T2	3	4	1	0.13	0.43	0.3	0	0	0	0	0	0	0	0
6/6/2024 22:43	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.32	0	0	0	0	0	0
6/6/2024 22:43	43202	MVIL_T2	48	74	26	0.28	0.53	0.25	-1.29	-1.31	0	0	0	0	0	0
6/6/2024 22:43	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:43	40802	EXCH_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
6/6/2024 22:43	43402	BENT_T1	0	1	1	0	0.1	0.1	-0.87	-0.87	1	1	0	900	900	0
6/6/2024 22:43	53501	EVIL_T2	2	2	0	0.7	0.8	0.1	-0.89	-0.92	1	1	0	600	600	0
6/6/2024 22:43	43304	WATS_T2	0	0	0	0	0	0	-0.16	-0.25	0	0	0	0	0	0
6/6/2024 22:43	46001	BERW_T1	0	0	0	0	0	0	0.84	0.81	0	0	0	0	0	0
6/6/2024 22:43	58401	MORO_T1	0	0	0	0	0	0	-0.74	-0.76	1	1	0	600	600	0
6/6/2024 22:43	45902	AUBU_T1	0	0	0	0	0	0	-0.86	-0.77	1	1	0	600	600	0
6/6/2024 22:43	45802	HEGI_T2	24	47	23	0.53	0.89	0.36	0	0	1	1	0	900	900	0
6/6/2024 22:43	46101	MACI_T2	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
6/6/2024 22:44	67605	WARW_T1	0	0	0	0	0	0	-1.07	-1.12	0	0	0	0	0	0
6/6/2024 22:44	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/6/2024 22:44	41901	REED_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/6/2024 22:44	50502	MECH_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
6/6/2024 22:44	46004	BERW_T2	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
6/6/2024 22:44	52403	GRPA_T2	2	0	-2	0.2	0	-0.2	0.29	0.28	0	0	0	0	0	0
6/6/2024 22:44	20603	GRWO_T2	10	27	17	0.19	0.19	0	-0.48	-0.49	1	1	0	900	900	0
6/6/2024 22:44	10801	OHHI_T1	0	0	0	0	0	0	-1.6	-1.63	3	3	0	2100	2100	0
6/6/2024 22:44	41902	REED_T1	1	0	-1	0.2	0	-0.2	1.07	1.05	0	0	0	0	0	0
6/6/2024 22:44	63804	HEMP_T1	1	1	0	5	6.1	1.1	0.03	0.02	0	0	0	0	0	0
6/6/2024 22:44	53501	EVIL_T2	2	2	0	0.7	0.8	0.1	-0.89	-0.92	1	1	0	600	600	0
6/6/2024 22:44	55101	WERT_T1	0	0	0	0	0	0	-1.9	-1.92	3	3	0	2400	2400	0
6/6/2024 22:44	50501	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/6/2024 22:44	64101	REFR_T1	0	0	0	0	0	0	0.47	0.43	0	0	0	0	0	0
6/6/2024 22:44	52402	GRPA_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
6/6/2024 22:44	53902	HALI_T2	1	1	0	5.3	5.8	0.5	-0.75	-0.77	0	0	0	0	0	0
6/6/2024 22:44	56801	BENV_T1	10	12	2	0.93	1.49	0.56	-0.69	-0.74	1	1	0	600	600	0
6/6/2024 22:44	49804	UNIV_T1	1	3	2	1.8	0.1	-1.7	0.8	0.79	0	0	0	0	0	0
6/6/2024 22:44	53901	HALI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/6/2024 22:44	50506	MECH_T1	0	0	0	0	0	0	0.61	0.68	0	0	0	0	0	0
6/6/2024 22:44	53903	HALI_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/6/2024 22:44	58401	MORO_T1	0	0	0	0	0	0	-0.74	-0.76	1	1	0	600	600	0
6/6/2024 22:45	49804	UNIV_T1	1	2	1	0.4	0.1	-0.3	0.8	0.79	0	0	0	0	0	0
6/6/2024 22:45	49803	UNIV_T1	0	0	0	0	0	0	-0.91	-0.87	0	0	0	0	0	0
6/6/2024 22:45	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
6/6/2024 22:45	61802	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:45	42201	SHEN_T2	0	0	0	0	0	0	0.29	0.26	2	2	0	1200	1200	0
6/6/2024 22:45	24901	WHHA_T1	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
6/6/2024 22:45	67702	WERN_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/6/2024 22:45	50502	MECH_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
6/6/2024 22:45	42002	MNVL_T2	1	1	0	2.4	2.4	0	0.38	0.35	0	0	0	0	0	0
6/6/2024 22:45	53903	HALI_T2	0	2	2	0	0.3	0.3	-0.07	-0.07	0	0	0	0	0	0
6/6/2024 22:45	61801	EELI_T2	0	0	0	0	0	0	-1.08	-1.12	2	2	0	1200	1200	0
6/6/2024 22:45	52002	LING_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
6/6/2024 22:45	57303	MOAL_T2	1	1	0	7.6	7	-0.6	0	0	0	0	0	0	0	0
6/6/2024 22:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:45	53901	HALI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/6/2024 22:45	57304	MOAL_T2	0	2	2	0	0.1	0.1	-0.05	-0.16	0	0	0	0	0	0
6/6/2024 22:45	50501	MECH_T1	1	1	0	0.1	0.2	0.1	-0.98	-1.03	0	0	0	0	0	0
6/6/2024 22:45	43402	BENT_T1	0	1	1	0	0.1	0.1	-0.87	-0.87	1	1	0	900	900	0
6/6/2024 22:45	67605	WARW_T1	0	0	0	0	0	0	-1.07	-1.12	0	0	0	0	0	0
6/6/2024 22:45	56801	BENV_T1	10	12	2	1.31	1.41	0.1	-2.76	-2.95	4	4	0	2400	2400	0
6/6/2024 22:45	67204	TEHI_T2	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
6/6/2024 22:45	40101	HUNT_T2	0	0	0	0	0	0	-1.21	-0.64	0	0	0	0	0	0
6/6/2024 22:46	55101	WERT_T1	0	0	0	0	0	0	-1.9	-1.92	3	3	0	2400	2400	0
6/6/2024 22:46	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:46	56801	BENV_T1	10	12	2	1.31	1.41	0.1	-0.69	-0.74	1	1	0	600	600	0
6/6/2024 22:46	66703	STRA_T1	0	0	0	0	0	0	0.11	0.07	0	0	0	0	0	0
6/6/2024 22:46	65802	RTWN_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
6/6/2024 22:46	56501	ROCK_T2	0	4	4	0	0.33	0.33	-0.82	-0.86	0	0	0	0	0	0
6/6/2024 22:46	52002	LING_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
6/6/2024 22:46	41901	REED_T1	2	7	5	0.15	0.21	0.06	0	0	0	0	0	0	0	0
6/6/2024 22:46	52101	MEIS_T1	2	2	0	0.85	1.15	0.3	0	0	0	0	0	0	0	0
6/6/2024 22:46	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:46	41902	REED_T1	0	0	0	0	0	0	1.07	1.05	0	0	0	0	0	0
6/6/2024 22:46	67605	WARW_T1	0	0	0	0	0	0	-1.07	-1.12	0	0	0	0	0	0
6/6/2024 22:47	52403	GRPA_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
6/6/2024 22:47	52101	MEIS_T1	2	2	0	0.85	1.15	0.3	0	0	0	0	0	0	0	0
6/6/2024 22:47	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:47	46206	DANV_T2	2	2	0	0.45	0.35	-0.1	3.44	3.41	1	1	0	1200	1200	0
6/6/2024 22:47	43304	WATS_T2	0	0	0	0	0	0	-0.16	-0.25	0	0	0	0	0	0
6/6/2024 22:47	67805	WLAN_T1	0	0	0	0	0	0	-1.13	-1.16	0	0	0	0	0	0
6/6/2024 22:47	56501	ROCK_T2	0	4	4	0	0.33	0.33	-0.82	-0.86	0	0	0	0	0	0
6/6/2024 22:47	43302	WATS_T2	4	4	0	0.38	0.4	0.02	0	0	0	0	0	0	0	0
6/6/2024 22:47	52401	GRPA_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/6/2024 22:47	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:47	43301	WATS_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
6/6/2024 22:47	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:47	52402	GRPA_T2	3	3	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/6/2024 22:47	44801	EDAN_T2	0	1	1	0	0	0	0.64	0.64	0	0	0	0	0	0
6/6/2024 22:47	56801	BENV_T1	10	12	2	1.31	1.41	0.1	-0.69	-0.74	1	1	0	600	600	0
6/6/2024 22:47	67804	WLAN_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:48	52002	LING_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
6/6/2024 22:48	40802	EXCH_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
6/6/2024 22:48	42002	MNVL_T2	1	1	0	2.4	2.4	0	0.38	0.35	0	0	0	0	0	0
6/6/2024 22:48	56801	BENV_T1	10	12	2	1.31	1.41	0.1	-0.69	-0.74	1	1	0	600	600	0
6/6/2024 22:49	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:49	57401	SPAN_T1	0	0	0	0	0	0	-0.64	-0.78	1	1	0	600	600	0
6/6/2024 22:49	64305	LINC_T1	0	0	0	0	0	0	-0.27	-0.31	0	0	0	0	0	0
6/6/2024 22:49	64303	LINC_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
6/6/2024 22:56	52101	MEIS_T1	2	2	0	0.85	1.15	0.3	0	0	0	0	0	0	0	0
6/6/2024 22:56	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2024 22:57	44301	BEAV_T2	0	0	0	0	0	0	0.24	0.26	1	1	0	600	600	0
6/6/2024 22:58	44301	BEAV_T2	0	0	0	0	0	0	0.24	0.26	1	1	0	600	600	0
6/6/2024 22:59	44301	BEAV_T2	0	0	0	0	0	0	0.24	0.26	1	1	0	600	600	0
6/6/2024 23:00	58706	ROSE_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
6/6/2024 23:00	44301	BEAV_T2	0	0	0	0	0	0	0.24	0.26	1	1	0	600	600	0
6/6/2024 23:00	58702	ROSE_T2	0	0	0	0	0	0	-2.26	-2.33	0	0	0	0	0	0
6/6/2024 23:00	58705	ROSE_T2	5	5	0	1.9	1.62	-0.28	0	0	0	0	0	0	0	0
6/6/2024 23:01	44301	BEAV_T2	0	0	0	0	0	0	0.24	0.26	1	1	0	600	600	0
6/6/2024 23:23	49804	UNIV_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
6/6/2024 23:31	57403	SPAN_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
6/6/2024 23:31	57401	SPAN_T1	0	0	0	0	0	0	-0.79	-0.87	1	1	0	600	600	0
6/6/2024 23:37	43402	BENT_T1	0	2	2	0	0.1	0.1	-0.88	-0.89	1	1	0	900	900	0
6/6/2024 23:38	43402	BENT_T1	0	2	2	0	0.1	0.1	-0.88	-0.89	1	1	0	900	900	0
6/6/2024 23:58	43103	SMIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/6/2024 23:58	43102	SMIL_T2	0	1	1	0	0.1	0.1	-0.67	-0.69	1	1	0	600	600	0
6/7/2024 0:03	58001	WCAR_T1	4	2	-2	0.75	0.15	-0.6	0.86	0.84	0	0	0	0	0	0
6/7/2024 0:03	58003	WCAR_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
6/7/2024 0:32	60101	COCA_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
6/7/2024 0:42	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.91	1	1	0	900	900	0
6/7/2024 0:43	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.91	1	1	0	900	900	0
6/7/2024 0:57	64305	LINC_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
6/7/2024 0:58	65901	SAKR_T2	1	1	0	8.4	8.5	0.1	-0.93	-0.85	1	1	0	900	900	0
6/7/2024 0:58	64305	LINC_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
6/7/2024 1:21	43103	SMIL_T2	2	10	8	0.15	0.21	0.06	0	0	0	0	0	0	0	0
6/7/2024 1:21	43104	SMIL_T2	0	0	0	0	0	0	-0.69	-0.7	1	1	0	300	300	0
6/7/2024 1:21	43102	SMIL_T2	6	6	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
6/7/2024 2:01	60101	COCA_T1	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/7/2024 2:12	64904	MILL_T1	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
6/7/2024 2:32	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	900	900	0
6/7/2024 2:33	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	900	900	0
6/7/2024 2:40	64203	KINZ_T1	0	0	0	0	0	0	-0.02	-0.19	1	1	0	600	600	0
6/7/2024 2:40	64201	KINZ_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
6/7/2024 2:40	64204	KINZ_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
6/7/2024 2:40	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 2:41	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 2:41	64201	KINZ_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
6/7/2024 2:41	64203	KINZ_T1	0	0	0	0	0	0	-0.02	-0.19	1	1	0	600	600	0
6/7/2024 2:41	64204	KINZ_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
6/7/2024 2:54	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	900	900	0
6/7/2024 2:55	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	900	900	0
6/7/2024 3:08	64305	LINC_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
6/7/2024 4:00	43402	BENT_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	900	900	0
6/7/2024 4:01	43402	BENT_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	900	900	0
6/7/2024 5:06	64305	LINC_T1	0	0	0	0	0	0	-0.46	-0.4	0	0	0	0	0	0
6/7/2024 5:09	59101	WALK_T2	0	0	0	0	0	0	1.26	1.28	0	0	0	0	0	0
6/7/2024 6:19	56501	ROCK_T2	0	1	1	0	0.1	0.1	0.05	0.05	0	0	0	0	0	0
6/7/2024 6:35	56501	ROCK_T2	0	1	1	0	0.1	0.1	0.05	-1.18	0	0	0	0	0	0
6/7/2024 6:46	46801	HEPB_T2	3	2	-1	0.7	1	0.3	0.53	0.56	0	0	0	0	0	0
6/7/2024 6:46	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 6:51	60301	TWVA_T2	0	0	0	0	0	0	-3.27	-3.24	3	3	0	2700	2700	0
6/7/2024 7:01	46801	HEPB_T2	2	2	0	1	0.8	-0.2	0.56	0.6	0	0	0	0	0	0
6/7/2024 7:01	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/7/2024 7:09	15702	TANN_T2	0	0	0	0	0	0	-0.39	-0.34	0	0	0	0	0	0
6/7/2024 7:09	15703	TANN_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
6/7/2024 7:10	62601	ENGL_T1	0	0	0	0	0	0	-1.13	0.2	0	0	0	0	0	0
6/7/2024 7:11	62607	ENGL_T1	0	0	0	0	0	0	-0.89	-0.5	1	0	-1	300	0	-300
6/7/2024 7:15	64904	MILL_T1	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
6/7/2024 7:15	62602	ENGL_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
6/7/2024 7:15	64902	MILL_T2	0	0	0	0	0	0	-0.43	-0.4	1	1	0	900	900	0
6/7/2024 7:16	64802	MONE_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
6/7/2024 7:16	64801	MONE_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/7/2024 7:18	15203	SFAR_T2	7	4	-3	0.16	0.1	-0.06	-1.05	-1.03	0	0	0	0	0	0
6/7/2024 7:19	24204	PROV_T3	1	1	0	7	6.2	-0.8	0	0	0	0	0	0	0	0
6/7/2024 7:19	24201	PROV_T3	1	1	0	6.8	6.6	-0.2	-1.25	-1.23	1	1	0	1200	1200	0
6/7/2024 7:20	15203	SFAR_T2	7	4	-3	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
6/7/2024 7:20	15204	SFAR_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
6/7/2024 7:22	14404	SSLA_T1	1	2	1	4.7	5.3	0.6	0.57	0.7	0	0	0	0	0	0
6/7/2024 7:22	15203	SFAR_T2	7	4	-3	0.16	0.1	-0.06	-2.06	-2.02	0	0	0	0	0	0
6/7/2024 7:22	58006	WCAR_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
6/7/2024 7:23	45501	DERR_T2	0	0	0	0	0	0	0.42	0.49	2	2	0	1800	1800	0
6/7/2024 7:27	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 7:30	41801	GOCI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/7/2024 7:31	40101	HUNT_T2	0	0	0	0	0	0	-0.36	-0.33	0	0	0	0	0	0
6/7/2024 7:33	15203	SFAR_T2	0	4	4	0	0.1	0.1	-1.03	-1.01	0	0	0	0	0	0
6/7/2024 7:34	56501	ROCK_T2	2	3	1	0.3	0.25	-0.05	-1.15	-1.13	0	0	0	0	0	0
6/7/2024 7:35	15203	SFAR_T2	0	4	4	0	0.1	0.1	-1.03	-1.01	0	0	0	0	0	0
6/7/2024 7:37	15203	SFAR_T2	0	4	4	0	0.1	0.1	-1.01	-0.99	0	0	0	0	0	0
6/7/2024 7:37	61102	BERK_T5	0	0	0	0	0	0	-0.84	-0.88	2	2	0	1200	1200	0
6/7/2024 7:38	59101	WALK_T2	0	0	0	0	0	0	1.41	1.48	0	0	0	0	0	0
6/7/2024 7:38	67604	WARW_T1	0	0	0	0	0	0	0.14	0.25	0	0	0	0	0	0
6/7/2024 7:38	56501	ROCK_T2	2	3	1	0.3	0.25	-0.05	-1.13	-1.11	0	0	0	0	0	0
6/7/2024 7:38	67605	WARW_T1	1	11	10	0.2	0.24	0.04	0	0	0	0	0	0	0	0
6/7/2024 7:40	21203	ECAR_T1	0	0	0	0	0	0	0.77	0.77	0	0	0	0	0	0
6/7/2024 7:41	16605	PONO_T1	0	0	0	0	0	0	-0.29	-0.17	1	1	0	1200	1200	0
6/7/2024 7:47	40101	HUNT_T2	0	0	0	0	0	0	-0.33	-0.3	0	0	0	0	0	0
6/7/2024 7:48	43202	MVIL_T2	9	29	20	0.13	0.17	0.04	-0.63	-0.62	0	0	0	0	0	0
6/7/2024 7:49	13501	MCMI_T1	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
6/7/2024 7:52	15203	SFAR_T2	4	4	0	0.1	0.18	0.08	-0.99	-0.97	0	0	0	0	0	0
6/7/2024 7:54	67605	WARW_T1	1	11	10	0.3	0.24	-0.06	-0.88	-0.85	0	0	0	0	0	0
6/7/2024 7:54	20403	ASHF_T2	2	44	42	0.15	0.17	0.02	1.66	1.55	0	0	0	0	0	0
6/7/2024 7:54	20401	ASHF_T2	6	7	1	0.35	0.34	-0.01	0	0	0	0	0	0	0	0
6/7/2024 7:55	20403	ASHF_T2	2	44	42	0.15	0.17	0.02	1.66	1.55	0	0	0	0	0	0
6/7/2024 7:55	20401	ASHF_T2	6	7	1	0.35	0.34	-0.01	0	0	0	0	0	0	0	0
6/7/2024 7:59	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 8:01	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 8:04	67106	SPRI_T2	0	0	0	0	0	0	-1.74	-1.73	2	2	0	1500	1500	0
6/7/2024 8:05	54203	PENN_T1	18	18	0	0.52	1.12	0.6	0	0	0	0	0	0	0	0
6/7/2024 8:05	54201	PENN_T1	3	66	63	1.73	0.3	-1.43	-0.72	-0.67	0	0	0	0	0	0
6/7/2024 8:05	54205	PENN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 8:05	12605	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 8:06	67106	SPRI_T2	0	0	0	0	0	0	-1.73	-1.72	2	2	0	1500	1500	0
6/7/2024 8:07	17002	RIRO_T2	0	29	29	0	0.13	0.13	0.83	0.8	0	0	0	0	0	0
6/7/2024 8:08	67106	SPRI_T2	0	0	0	0	0	0	-1.73	-1.72	2	2	0	1500	1500	0
6/7/2024 8:08	12605	MACA_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
6/7/2024 8:08	56802	BENV_T2	0	1	1	0	0.6	0.6	-0.58	-0.55	0	0	0	0	0	0
6/7/2024 8:08	59101	WALK_T2	0	0	0	0	0	0	1.59	1.48	0	0	0	0	0	0
6/7/2024 8:09	56802	BENV_T2	0	1	1	0	0.6	0.6	-0.58	-0.55	0	0	0	0	0	0
6/7/2024 8:09	40502	CRES_T2	0	4	4	0	0.13	0.13	-1.55	-1.51	0	0	0	0	0	0
6/7/2024 8:09	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 8:10	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 8:10	40504	CRES_T1	0	0	0	0	0	0	-1.55	-1.53	0	0	0	0	0	0
6/7/2024 8:10	20403	ASHF_T2	30	42	12	0.16	0.17	0.01	1.55	1.4	0	0	0	0	0	0
6/7/2024 8:10	56802	BENV_T2	0	1	1	0	0.6	0.6	-0.58	-0.55	0	0	0	0	0	0
6/7/2024 8:10	40502	CRES_T2	0	4	4	0	0.13	0.13	-1.55	-1.51	0	0	0	0	0	0
6/7/2024 8:10	40505	CRES_T1	3	3	0	3.73	3.07	-0.66	0	0	0	0	0	0	0	0
6/7/2024 8:10	20401	ASHF_T2	7	4	-3	0.34	0.23	-0.11	0	0	0	0	0	0	0	0
6/7/2024 8:10	24702	FLND_T2	0	0	0	0	0	0	0.35	0.41	1	1	0	1200	1200	0
6/7/2024 8:11	40502	CRES_T2	0	4	4	0	0.13	0.13	-3.09	-3.01	0	0	0	0	0	0
6/7/2024 8:11	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 8:12	45501	DERR_T2	0	1	1	0	0	0	0.48	0.63	2	2	0	1800	1800	0
6/7/2024 8:12	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 8:12	56802	BENV_T2	0	1	1	0	0.6	0.6	-0.58	-0.55	0	0	0	0	0	0
6/7/2024 8:12	40502	CRES_T2	0	4	4	0	0.13	0.13	-3.09	-3.01	0	0	0	0	0	0
6/7/2024 8:12	45502	DERR_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/7/2024 8:13	40504	CRES_T1	0	0	0	0	0	0	-1.55	-1.53	0	0	0	0	0	0
6/7/2024 8:13	41502	FAIR_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
6/7/2024 8:13	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 8:13	40502	CRES_T2	0	4	4	0	0.13	0.13	-0.77	-0.75	0	0	0	0	0	0
6/7/2024 8:13	40505	CRES_T1	3	3	0	3.73	3.07	-0.66	0	0	0	0	0	0	0	0
6/7/2024 8:14	40502	CRES_T2	0	4	4	0	0.13	0.13	-0.77	-0.75	0	0	0	0	0	0
6/7/2024 8:14	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 8:15	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 8:15	40502	CRES_T2	3	1	-2	0.13	0.1	-0.03	-2.32	-2.26	0	0	0	0	0	0
6/7/2024 8:18	64101	REFR_T1	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
6/7/2024 8:19	64101	REFR_T1	0	0	0	0	0	0	0.37	0.41	0	0	0	0	0	0
6/7/2024 8:20	64101	REFR_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
6/7/2024 8:21	58001	WCAR_T1	4	4	0	1.1	0.93	-0.17	0	0	0	0	0	0	0	0
6/7/2024 8:21	58003	WCAR_T1	13	6	-7	0.32	0.53	0.21	0.21	0.23	1	1	0	600	600	0
6/7/2024 8:21	15203	SFAR_T2	3	4	1	0.2	0.35	0.15	-0.95	-0.93	0	0	0	0	0	0
6/7/2024 8:22	64101	REFR_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
6/7/2024 8:25	20401	ASHF_T2	4	4	0	0.23	0.28	0.05	0	0	0	0	0	0	0	0
6/7/2024 8:25	20403	ASHF_T2	42	7	-35	0.17	0.21	0.04	1.4	1.44	0	0	0	0	0	0
6/7/2024 8:25	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 8:25	46004	BERW_T2	0	0	0	0	0	0	-0.24	-0.2	0	0	0	0	0	0
6/7/2024 8:26	45502	DERR_T2	1	1	0	0.2	0.2	0	0.09	0.09	0	0	0	0	0	0
6/7/2024 8:26	45501	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 8:36	55102	WERT_T2	0	0	0	0	0	0	-1.13	-1.11	2	2	0	1200	1200	0
6/7/2024 8:39	56801	BENV_T1	6	8	2	0.43	0.76	0.33	0	0	0	0	0	0	0	0
6/7/2024 8:39	56803	BENV_T1	2	1	-1	3.85	9.3	5.45	-0.01	-0.01	0	0	0	0	0	0
6/7/2024 8:43	11507	FREE_T2	0	0	0	0	0	0	1.15	1.2	0	0	0	0	0	0
6/7/2024 8:46	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	2	2	0	1800	1800
6/7/2024 8:48	64101	REFR_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
6/7/2024 8:49	14404	SSLA_T1	1	1	0	4.7	5.3	0.6	0	0	0	0	0	0	0	0
6/7/2024 8:49	14403	SSLA_T1	0	0	0	0	0	0	1.01	1.03	0	0	0	0	0	0
6/7/2024 8:50	41902	REED_T1	0	1	1	0	0	0	1.3	1.28	0	0	0	0	0	0
6/7/2024 8:51	41902	REED_T1	0	1	1	0	0	0	1.3	1.28	0	0	0	0	0	0
6/7/2024 8:51	14403	SSLA_T1	0	0	0	0	0	0	1.03	1.05	0	0	0	0	0	0
6/7/2024 8:51	67603	WARW_T1	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
6/7/2024 8:51	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.75	0	0	0	0	0	0
6/7/2024 8:51	14404	SSLA_T1	1	1	0	4.7	5.3	0.6	0	0	0	0	0	0	0	0
6/7/2024 8:52	67803	WLAN_T1	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
6/7/2024 8:53	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.75	0	0	0	0	0	0
6/7/2024 8:54	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 8:54	56801	BENV_T1	6	8	2	0.57	0.75	0.18	0.18	0.47	4	4	0	2400	2400	0
6/7/2024 8:55	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 8:55	56801	BENV_T1	6	8	2	0.57	0.75	0.18	0.14	0.35	3	3	0	1800	1800	0
6/7/2024 8:55	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.75	0	0	0	0	0	0
6/7/2024 8:56	67603	WARW_T1	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
6/7/2024 8:57	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 8:57	56801	BENV_T1	6	8	2	0.57	0.75	0.18	0.05	0.12	1	1	0	600	600	0
6/7/2024 8:59	12604	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 8:59	12606	MACA_T1	0	0	0	0	0	0	-1.51	-1.37	1	1	0	900	900	0
6/7/2024 8:59	12601	MACA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 9:02	48302	ORWI_T2	1	1	0	0.2	0.3	0.1	-0.47	-0.45	0	0	0	0	0	0
6/7/2024 9:04	54203	PENN_T1	18	18	0	0.51	0.83	0.32	0.55	0.59	0	0	0	0	0	0
6/7/2024 9:04	64101	REFR_T1	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
6/7/2024 9:04	54201	PENN_T1	8	27	19	0.86	0.47	-0.39	0	0	0	0	0	0	0	0
6/7/2024 9:04	66502	SMAN_T2	0	1	1	0	0.2	0.2	0.45	0.49	0	0	0	0	0	0
6/7/2024 9:05	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 9:05	64101	REFR_T1	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
6/7/2024 9:05	66504	SMAN_T2	0	0	0	0	0	0	-1.11	-1.01	1	1	0	1200	1200	0
6/7/2024 9:06	66502	SMAN_T2	0	1	1	0	0.2	0.2	0.49	0.46	0	0	0	0	0	0
6/7/2024 9:06	64101	REFR_T1	0	0	0	0	0	0	0.46	0.5	0	0	0	0	0	0
6/7/2024 9:07	64101	REFR_T1	0	0	0	0	0	0	0.46	0.5	0	0	0	0	0	0
6/7/2024 9:07	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 9:07	66504	SMAN_T2	0	0	0	0	0	0	-2.02	-1.93	2	2	0	2400	2400	0
6/7/2024 9:07	20401	ASHF_T2	4	2	-2	0.33	0.5	0.17	0	0	0	0	0	0	0	0
6/7/2024 9:07	20403	ASHF_T2	3	2	-1	0.17	0.15	-0.02	3.06	3.24	0	0	0	0	0	0
6/7/2024 9:13	10805	CHHI_T2	2	2	0	4.95	5.25	0.3	-0.56	-0.57	1	1	0	600	600	0
6/7/2024 9:14	46801	HEPB_T2	2	2	0	0.75	0.5	-0.25	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/7/2024 9:14	46803	HEPB_T2	1	1	0	0.2	1	0.8	0.57	0.58	0	0	0	0	0	0
6/7/2024 9:15	46802	HEPB_T1	0	1	1	0	0.8	0.8	-0.04	-0.02	0	0	0	0	0	0
6/7/2024 9:18	51702	OBER_T1	2	5	3	3.35	1.8	-1.55	0	0	0	0	0	0	0	0
6/7/2024 9:18	51704	OBER_T1	0	0	0	0	0	0	-1.33	-1.31	1	1	0	1200	1200	0
6/7/2024 9:19	57401	SPAN_T1	1	1	0	6.7	6.7	0	-1.15	-1.04	1	1	0	600	600	0
6/7/2024 9:19	57403	SPAN_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
6/7/2024 9:20	67201	TEHI_T1	4	8	4	0.53	0.52	-0.01	0	0	0	0	0	0	0	0
6/7/2024 9:20	67203	TEHI_T1	2	1	-1	0.15	0	-0.15	2.2	1.94	3	4	1	2100	3000	900
6/7/2024 9:20	64101	REFR_T1	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
6/7/2024 9:21	51704	OBER_T1	0	0	0	0	0	0	-1.33	-1.31	1	1	0	1200	1200	0
6/7/2024 9:21	64101	REFR_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
6/7/2024 9:21	51702	OBER_T1	2	5	3	3.35	1.8	-1.55	-1.55	-1.54	1	1	0	600	600	0
6/7/2024 9:22	15703	TANN_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
6/7/2024 9:22	64101	REFR_T1	0	0	0	0	0	0	0.5	0.54	0	0	0	0	0	0
6/7/2024 9:22	57401	SPAN_T1	1	1	0	6.7	6.7	0	-3.12	-2.94	3	3	0	1800	1800	0
6/7/2024 9:22	15702	TANN_T2	1	0	-1	0.2	0	-0.2	-0.19	-0.22	0	0	0	0	0	0
6/7/2024 9:22	57403	SPAN_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
6/7/2024 9:23	64101	REFR_T1	0	0	0	0	0	0	0.5	0.54	0	0	0	0	0	0
6/7/2024 9:24	57401	SPAN_T1	1	1	0	6.7	6.7	0	-2.08	-1.96	2	2	0	1200	1200	0
6/7/2024 9:24	59101	WALK_T2	0	0	0	0	0	0	1.89	1.74	0	0	0	0	0	0
6/7/2024 9:24	57403	SPAN_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
6/7/2024 9:29	45802	HEGI_T2	2	12	10	0.55	0.25	-0.3	0	0	2	1	-1	1200	900	-300
6/7/2024 9:29	40801	EXCH_T2	4	0	-4	0.1	0	-0.1	-0.25	-0.25	1	1	0	1200	1200	0
6/7/2024 9:29	40802	EXCH_T2	4	1	-3	0.45	1	0.55	0	0	0	0	0	0	0	0
6/7/2024 9:30	46803	HEPB_T2	1	1	0	0.8	1.2	0.4	0.58	0.58	0	0	0	0	0	0
6/7/2024 9:30	46801	HEPB_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
6/7/2024 9:31	45802	HEGI_T2	11	27	16	0.25	1.1	0.85	0	0	2	1	-1	1200	900	-300
6/7/2024 9:33	48302	ORWI_T2	1	0	-1	0.1	0	-0.1	-0.44	-0.36	0	0	0	0	0	0
6/7/2024 9:37	56801	BENV_T1	14	13	-1	0.84	0.74	-0.1	-0.45	-0.44	1	1	0	600	600	0
6/7/2024 9:37	56803	BENV_T1	1	0	-1	2.1	0	-2.1	0	0	0	0	0	0	0	0
6/7/2024 9:39	45901	AUBU_T1	0	0	0	0	0	0	0.41	0.34	0	0	0	0	0	0
6/7/2024 9:39	56802	BENV_T2	0	1	1	0	0.2	0.2	-0.44	-0.42	0	0	0	0	0	0
6/7/2024 9:39	56803	BENV_T1	1	0	-1	2.1	0	-2.1	0	0	0	0	0	0	0	0
6/7/2024 9:39	56801	BENV_T1	14	13	-1	0.84	0.74	-0.1	-0.45	-0.44	1	1	0	600	600	0
6/7/2024 9:39	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.52	-0.45	2	2	0	1200	1200	0
6/7/2024 9:39	48302	ORWI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/7/2024 9:40	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 9:40	43304	WATS_T2	0	0	0	0	0	0	-0.3	-0.21	0	0	0	0	0	0
6/7/2024 9:41	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.26	-0.22	1	1	0	600	600	0
6/7/2024 9:41	56801	BENV_T1	14	13	-1	0.84	0.74	-0.1	-1.34	-1.31	3	3	0	1800	1800	0
6/7/2024 9:41	56803	BENV_T1	1	0	-1	2.1	0	-2.1	0	0	0	0	0	0	0	0
6/7/2024 9:42	41801	GOCI_T2	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
6/7/2024 9:42	56803	BENV_T1	1	0	-1	2.1	0	-2.1	0	0	0	0	0	0	0	0
6/7/2024 9:42	56801	BENV_T1	14	13	-1	0.84	0.74	-0.1	-1.34	-1.31	3	3	0	1800	1800	0
6/7/2024 9:44	47001	HUGH_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
6/7/2024 9:45	46801	HEPB_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
6/7/2024 9:45	47001	HUGH_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
6/7/2024 9:45	46803	HEPB_T2	1	0	-1	1.2	0	-1.2	0.58	0.59	0	0	0	0	0	0
6/7/2024 9:50	56501	ROCK_T2	6	5	-1	0.25	0.32	0.07	-1.94	-1.9	0	0	0	0	0	0
6/7/2024 9:52	56801	BENV_T1	12	10	-2	0.78	0.53	-0.25	-0.44	-0.35	1	1	0	600	600	0
6/7/2024 9:53	56801	BENV_T1	12	10	-2	0.78	0.53	-0.25	-0.44	-0.35	1	1	0	600	600	0
6/7/2024 9:54	56801	BENV_T1	12	10	-2	0.78	0.53	-0.25	-0.44	-0.35	1	1	0	600	600	0
6/7/2024 9:55	46206	DANV_T2	10	12	2	0.84	0.87	0.03	3.45	3.45	1	1	0	1200	1200	0
6/7/2024 9:55	60201	ATGL_T2	0	0	0	0	0	0	0.86	0.27	1	2	1	300	900	600
6/7/2024 9:55	56801	BENV_T1	12	10	-2	0.78	0.53	-0.25	-0.44	-0.35	1	1	0	600	600	0
6/7/2024 9:56	56801	BENV_T1	12	10	-2	0.78	0.53	-0.25	-0.44	-0.35	1	1	0	600	600	0
6/7/2024 9:57	53903	HALI_T2	6	7	1	0.73	0.8	0.07	-0.09	-0.09	0	0	0	0	0	0
6/7/2024 9:57	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 9:57	53902	HALI_T2	3	3	0	2.43	2.57	0.14	0	0	0	0	0	0	0	0
6/7/2024 9:57	56801	BENV_T1	12	10	-2	0.78	0.53	-0.25	-1.31	-1.06	3	3	0	1800	1800	0
6/7/2024 9:57	46206	DANV_T2	10	12	2	0.84	0.87	0.03	3.45	3.45	1	1	0	1200	1200	0
6/7/2024 9:58	56501	ROCK_T2	6	5	-1	0.25	0.32	0.07	-0.95	-0.93	0	0	0	0	0	0
6/7/2024 9:58	53902	HALI_T2	3	3	0	2.43	2.57	0.14	0	0	0	0	0	0	0	0
6/7/2024 9:58	10805	CHHI_T2	8	18	10	1.56	1.27	-0.29	-1.07	-0.78	3	3	0	1800	1800	0
6/7/2024 9:58	56801	BENV_T1	12	10	-2	0.78	0.53	-0.25	-0.44	-0.35	1	1	0	600	600	0
6/7/2024 9:58	53903	HALI_T2	6	7	1	0.73	0.8	0.07	-0.19	-0.17	0	0	0	0	0	0
6/7/2024 9:58	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 9:59	64203	KINZ_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/7/2024 9:59	21901	HUMB_T1	0	1	1	0	0.3	0.3	-2.14	-2.09	0	0	0	0	0	0
6/7/2024 9:59	46206	DANV_T2	10	12	2	0.84	0.87	0.03	3.45	3.45	1	1	0	1200	1200	0
6/7/2024 9:59	64204	KINZ_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
6/7/2024 9:59	64201	KINZ_T1	0	0	0	0	0	0	-0.41	0.12	4	4	0	2100	2100	0
6/7/2024 10:00	53902	HALI_T2	3	3	0	2.57	2.37	-0.2	0	0	0	0	0	0	0	0
6/7/2024 10:00	56801	BENV_T1	8	11	3	0.61	0.41	-0.2	-0.44	-0.35	1	1	0	600	600	0
6/7/2024 10:00	67605	WARW_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/7/2024 10:00	16605	PONO_T1	0	0	0	0	0	0	0.12	0.15	1	1	0	1200	1200	0
6/7/2024 10:00	53901	HALI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/7/2024 10:00	40505	CRES_T1	3	3	0	2.43	2.4	-0.03	0.54	0.58	0	0	0	0	0	0
6/7/2024 10:00	67502	WEWI_T2	1	3	2	0.2	0.23	0.03	-0.79	-0.71	1	1	0	900	900	0
6/7/2024 10:00	15703	TANN_T2	1	1	0	5.7	5.9	0.2	0	0	0	0	0	0	0	0
6/7/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
6/7/2024 10:00	59101	WALK_T2	0	0	0	0	0	0	1.78	1.62	0	0	0	0	0	0
6/7/2024 10:00	41902	REED_T1	1	2	1	0.3	0	-0.3	2.7	2.72	0	0	0	0	0	0
6/7/2024 10:00	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 10:00	67604	WARW_T1	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
6/7/2024 10:00	45802	HEGI_T2	27	2	-25	0.48	1.3	0.82	0	0	1	2	1	900	1200	300
6/7/2024 10:00	67702	WERN_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
6/7/2024 10:00	67703	WERN_T2	0	0	0	0	0	0	-0.37	-0.36	1	1	0	900	900	0
6/7/2024 10:00	53903	HALI_T2	6	7	1	0.73	0.87	0.14	-0.09	-0.09	0	0	0	0	0	0
6/7/2024 10:00	57002	WHHI_T2	0	1	1	0	0	0	0.4	-0.38	0	0	0	0	0	0
6/7/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.23	0.41	2	2	0	1200	1200	0
6/7/2024 10:00	15702	TANN_T2	1	0	-1	0.1	0	-0.1	-0.25	-0.2	0	0	0	0	0	0
6/7/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.15	0.21	0	0	0	0	0	0
6/7/2024 10:00	51101	CARL_T1	2	1	-1	3.6	6.8	3.2	-0.69	-0.72	1	1	0	600	600	0
6/7/2024 10:00	66502	SMAN_T2	1	0	-1	0.2	0	-0.2	0.59	0.59	0	0	0	0	0	0
6/7/2024 10:00	52102	MEIS_T1	0	1	1	0	0	0	0	0	1	1	0	450	450	0
6/7/2024 10:00	66504	SMAN_T2	0	0	0	0	0	0	-1.92	-1.88	2	2	0	2400	2400	0
6/7/2024 10:08	10805	CHHI_T2	15	12	-3	0.59	0.66	0.07	-0.26	-0.3	1	1	0	600	600	0
6/7/2024 10:09	56802	BENV_T2	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
6/7/2024 10:09	59101	WALK_T2	0	0	0	0	0	0	1.62	1.66	0	0	0	0	0	0
6/7/2024 10:09	10805	CHHI_T2	15	12	-3	0.59	0.66	0.07	-0.26	-0.3	1	1	0	600	600	0
6/7/2024 10:09	56801	BENV_T1	8	11	3	0.61	0.41	-0.2	-1.06	-1.02	3	3	0	1800	1800	0
6/7/2024 10:10	10801	CHHI_T1	2	3	1	0.3	0.5	0.2	-0.88	-0.82	2	2	0	1500	1500	0
6/7/2024 10:10	56801	BENV_T1	8	11	3	0.61	0.41	-0.2	-1.77	-1.7	5	5	0	3000	3000	0
6/7/2024 10:10	10805	CHHI_T2	15	12	-3	0.59	0.66	0.07	-0.26	-0.3	1	1	0	600	600	0
6/7/2024 10:10	11102	EGYP_T1	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/7/2024 10:10	48302	ORWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 10:10	18001	ZION_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/7/2024 10:10	43402	BENT_T1	10	2	-8	0.6	0.8	0.2	-1.16	-1.01	2	2	0	1800	1800	0
6/7/2024 10:10	11103	EGYP_T1	0	0	0	0	0	0	-0.56	-0.6	0	0	0	0	0	0
6/7/2024 10:10	45901	AUBU_T1	0	0	0	0	0	0	0.35	0.46	0	0	0	0	0	0
6/7/2024 10:10	20403	ASHF_T2	3	2	-1	0.23	0.15	-0.08	4.9	5.21	0	0	0	0	0	0
6/7/2024 10:10	56802	BENV_T2	0	0	0	0	0	0	-0.79	-0.74	0	0	0	0	0	0
6/7/2024 10:10	45902	AUBU_T1	0	1	1	0	0.6	0.6	-0.59	-0.57	2	2	0	1200	1200	0
6/7/2024 10:10	11104	EGYP_T1	0	6	6	0	0.22	0.22	0	0	0	0	0	0	0	0
6/7/2024 10:10	20401	ASHF_T2	1	1	0	0.2	0.1	-0.1	0.01	0.11	0	0	0	0	0	0
6/7/2024 10:11	56801	BENV_T1	8	11	3	0.61	0.41	-0.2	-1.06	-1.02	3	3	0	1800	1800	0
6/7/2024 10:11	45502	DERR_T2	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
6/7/2024 10:11	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/7/2024 10:11	23201	HIRU_T2	26	3	-23	0.16	0.3	0.14	0	0	0	0	0	0	0	0
6/7/2024 10:11	23203	HIRU_T2	17	7	-10	0.14	0.16	0.02	0.17	0.17	0	0	0	0	0	0
6/7/2024 10:11	56802	BENV_T2	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
6/7/2024 10:11	23202	HIRU_T2	11	6	-5	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
6/7/2024 10:11	45501	DERR_T2	2	2	0	0.3	0.3	0	0.66	0.65	2	2	0	1800	1800	0
6/7/2024 10:12	20403	ASHF_T2	3	2	-1	0.23	0.15	-0.08	1.63	1.74	0	0	0	0	0	0
6/7/2024 10:12	20401	ASHF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/7/2024 10:14	56801	BENV_T1	8	11	3	0.61	0.41	-0.2	0	0	0	0	0	0	0	0
6/7/2024 10:14	52403	GRPA_T2	4	5	1	0.33	0.48	0.15	-0.17	-0.16	0	0	0	0	0	0
6/7/2024 10:14	52402	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
6/7/2024 10:14	45602	WOOL_T1	0	1	1	0	0.4	0.4	0	0	1	1	0	900	900	0
6/7/2024 10:14	56803	BENV_T1	0	0	0	0	0	0	0	0.01	1	1	0	600	600	0
6/7/2024 10:15	64203	KINZ_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/7/2024 10:15	64204	KINZ_T1	1	1	0	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
6/7/2024 10:15	63501	HEID_TBK1-2	3	6	3	0.33	0.27	-0.06	0.2	0.25	1	1	0	900	900	0
6/7/2024 10:15	52402	GRPA_T2	1	1	0	0.5	0.4	-0.1	-0.7	-0.68	0	0	0	0	0	0
6/7/2024 10:15	64201	KINZ_T1	0	1	1	0	0.5	0.5	0.12	0.16	4	4	0	2100	2100	0
6/7/2024 10:15	52403	GRPA_T2	5	3	-2	0.48	0.35	-0.13	0	0	0	0	0	0	0	0
6/7/2024 10:15	45602	WOOL_T1	1	1	0	0.4	0.2	-0.2	0	0	1	1	0	900	900	0
6/7/2024 10:16	40101	HUNT_T2	3	3	0	0.4	0.4	0	-0.07	-0.06	0	0	0	0	0	0
6/7/2024 10:16	42902	MIDD_T2	0	0	0	0	0	0	0.3	0.04	1	1	0	600	600	0
6/7/2024 10:16	56801	BENV_T1	7	11	4	0.4	0.39	-0.01	-0.71	-0.68	2	2	0	1200	1200	0
6/7/2024 10:16	42903	MIDD_T2	2	2	0	1.7	1.75	0.05	0	0	0	0	0	0	0	0
6/7/2024 10:16	60201	ATGL_T2	0	0	0	0	0	0	0.27	0.33	2	2	0	900	900	0
6/7/2024 10:16	45602	WOOL_T1	1	1	0	0.4	0.2	-0.2	0	0	1	1	0	900	900	0
6/7/2024 10:17	40201	BEGA_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 10:18	56801	BENV_T1	7	11	4	0.4	0.39	-0.01	-0.35	-0.34	1	1	0	600	600	0
6/7/2024 10:20	58001	WCAR_T1	4	5	1	0.65	0.64	-0.01	0	0	0	0	0	0	0	0
6/7/2024 10:20	58003	WCAR_T1	2	5	3	0.9	0.64	-0.26	0.32	0.34	1	1	0	600	600	0
6/7/2024 10:21	64101	REFR_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
6/7/2024 10:21	15703	TANN_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
6/7/2024 10:21	67201	TEHI_T1	12	22	10	0.39	0.66	0.27	0	0	0	0	0	0	0	0
6/7/2024 10:21	67203	TEHI_T1	1	4	3	0.2	0.3	0.1	1.96	2.02	4	4	0	3000	3000	0
6/7/2024 10:21	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.2	-0.12	0	0	0	0	0	0
6/7/2024 10:21	43301	WATS_T2	0	1	1	0	0.5	0.5	-0.82	-0.78	2	2	0	1800	1800	0
6/7/2024 10:21	14801	TREI_T2	1	2	1	0.4	0.3	-0.1	0.85	0.86	0	0	0	0	0	0
6/7/2024 10:22	15703	TANN_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
6/7/2024 10:22	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.12	-0.07	0	0	0	0	0	0
6/7/2024 10:24	45501	DERR_T2	2	1	-1	0.4	0.3	-0.1	0.65	0.8	2	2	0	1800	1800	0
6/7/2024 10:24	44301	BEAV_T2	1	3	2	2	0.35	-1.65	1.31	0.75	6	6	0	4500	4500	0
6/7/2024 10:25	16302	ALPA_T2	0	0	0	0	0	0	0.02	-0.05	0	0	0	0	0	0
6/7/2024 10:26	45902	AUBU_T1	1	1	0	0.5	0.6	0.1	-0.57	-0.37	2	2	0	1200	1200	0
6/7/2024 10:26	16302	ALPA_T2	0	0	0	0	0	0	0.06	-0.15	0	0	0	0	0	0
6/7/2024 10:26	58003	WCAR_T1	2	5	3	0.9	0.64	-0.26	0.34	0.35	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/7/2024 10:26	58001	WCAR_T1	4	5	1	0.65	0.64	-0.01	0	0	0	0	0	0	0	0
6/7/2024 10:26	45501	DERR_T2	2	1	-1	0.4	0.3	-0.1	0.65	0.8	2	2	0	1800	1800	0
6/7/2024 10:27	43402	BENT_T1	2	8	6	0.8	0.41	-0.39	-0.5	-0.56	1	1	0	900	900	0
6/7/2024 10:27	54504	ENOL_T2	1	1	0	0.1	1	0.9	-0.82	-0.81	1	1	0	600	600	0
6/7/2024 10:27	54505	ENOL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/7/2024 10:28	45902	AUBU_T1	1	1	0	0.5	0.6	0.1	-0.28	-0.19	1	1	0	600	600	0
6/7/2024 10:28	10805	CHHI_T2	12	11	-1	0.43	0.84	0.41	-0.3	-0.23	1	1	0	600	600	0
6/7/2024 10:28	10801	CHHI_T1	1	5	4	0.1	0.94	0.84	-1.64	-2.73	4	6	2	3000	4200	1200
6/7/2024 10:29	43301	WATS_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/7/2024 10:29	43304	WATS_T2	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
6/7/2024 10:30	25502	MADI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/7/2024 10:30	25503	MADI_T1	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
6/7/2024 10:30	25501	MADI_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/7/2024 10:31	45602	WOOL_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/7/2024 10:31	43201	MVIL_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
6/7/2024 10:31	45601	WOOL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
6/7/2024 10:31	43202	MVIL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/7/2024 10:33	65001	NEFF_T2	0	0	0	0	0	0	0.18	0.15	1	1	0	1200	1200	0
6/7/2024 10:35	56501	ROCK_T2	2	4	2	0.4	0.4	0	-0.91	-0.89	0	0	0	0	0	0
6/7/2024 10:35	43202	MVIL_T2	1	1	0	0.8	0.8	0	-0.56	-0.55	0	0	0	0	0	0
6/7/2024 10:35	56504	ROCK_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/7/2024 10:36	67605	WARW_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/7/2024 10:36	54201	PENN_T1	7	10	3	0.83	0.66	-0.17	-0.52	-0.46	0	0	0	0	0	0
6/7/2024 10:36	67603	WARW_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
6/7/2024 10:36	43301	WATS_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/7/2024 10:36	43304	WATS_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
6/7/2024 10:36	54203	PENN_T1	18	18	0	0.44	0.48	0.04	0	0	0	0	0	0	0	0
6/7/2024 10:36	56501	ROCK_T2	2	4	2	0.4	0.4	0	-1.82	-1.78	0	0	0	0	0	0
6/7/2024 10:36	56504	ROCK_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/7/2024 10:37	43301	WATS_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/7/2024 10:37	54201	PENN_T1	7	10	3	0.83	0.66	-0.17	-0.46	-0.57	0	0	0	0	0	0
6/7/2024 10:37	67605	WARW_T1	1	1	0	0.8	0.8	0	-0.78	-0.77	0	0	0	0	0	0
6/7/2024 10:37	54203	PENN_T1	18	18	0	0.44	0.48	0.04	0	0	0	0	0	0	0	0
6/7/2024 10:37	43304	WATS_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
6/7/2024 10:38	56501	ROCK_T2	2	4	2	0.4	0.4	0	-2.67	-2.62	0	0	0	0	0	0
6/7/2024 10:38	67203	TEHI_T1	4	3	-1	0.43	0.25	-0.18	0	0	0	0	0	0	0	0
6/7/2024 10:38	24603	VARD_T2	11	5	-6	0.54	0.28	-0.26	-0.52	-0.53	1	1	0	600	600	0
6/7/2024 10:38	67605	WARW_T1	1	1	0	0.8	0.8	0	-0.78	-0.77	0	0	0	0	0	0
6/7/2024 10:38	56504	ROCK_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/7/2024 10:38	67201	TEHI_T1	21	21	0	0.94	0.6	-0.34	0.78	0.25	2	2	0	1500	1500	0
6/7/2024 10:38	24602	VARD_T2	220	21	-199	0.31	0.27	-0.04	0	0	0	0	0	0	0	0
6/7/2024 10:39	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.77	1	1	0	900	900	0
6/7/2024 10:40	67603	WARW_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
6/7/2024 10:40	67605	WARW_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/7/2024 10:40	56801	BENV_T1	10	10	0	0.38	0.39	0.01	-0.32	-0.31	1	1	0	600	600	0
6/7/2024 10:41	56802	BENV_T2	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
6/7/2024 10:41	41801	GOCI_T2	2	3	1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
6/7/2024 10:42	60201	ATGL_T2	0	0	0	0	0	0	0.28	0.24	2	2	0	900	900	0
6/7/2024 10:42	56801	BENV_T1	10	10	0	0.38	0.39	0.01	-0.32	-0.31	1	1	0	600	600	0
6/7/2024 10:42	54505	ENOL_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/7/2024 10:42	54503	ENOL_T2	0	0	0	0	0	0	-1.35	-1.31	1	1	0	600	600	0
6/7/2024 10:42	54504	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
6/7/2024 10:43	53902	HALI_T2	3	3	0	2.13	2.33	0.2	0	0	0	0	0	0	0	0
6/7/2024 10:43	56801	BENV_T1	10	10	0	0.38	0.39	0.01	-0.65	-0.62	2	2	0	1200	1200	0
6/7/2024 10:43	53903	HALI_T2	6	7	1	1	0.74	-0.26	-0.15	-0.14	0	0	0	0	0	0
6/7/2024 10:44	53902	HALI_T2	3	3	0	2.13	2.33	0.2	-0.6	-0.59	0	0	0	0	0	0
6/7/2024 10:44	53903	HALI_T2	6	7	1	1	0.74	-0.26	0	0	0	0	0	0	0	0
6/7/2024 10:44	46801	HEPB_T2	1	1	0	0.1	0.1	0	0.95	0.96	0	0	0	0	0	0
6/7/2024 10:46	63802	HEMP_T1	0	0	0	0	0	0	0.51	0.6	0	0	0	0	0	0
6/7/2024 10:46	63302	GREE_T1	0	0	0	0	0	0	0.17	0.21	0	0	0	0	0	0
6/7/2024 10:46	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 10:46	63804	HEMP_T1	1	1	0	6.5	6.2	-0.3	0	0	0	0	0	0	0	0
6/7/2024 10:47	24204	PROV_T3	1	1	0	6.1	6.4	0.3	0	0	0	0	0	0	0	0
6/7/2024 10:47	24201	PROV_T3	1	3	2	7.9	8	0.1	-1.06	-1.05	1	1	0	1200	1200	0
6/7/2024 10:47	46801	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 10:47	46803	HEPB_T2	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
6/7/2024 10:48	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 10:48	28805	LAKE_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
6/7/2024 10:48	58402	MORO_T1	0	0	0	0	0	0	-0.7	-0.69	3	3	0	2400	2400	0
6/7/2024 10:51	17002	RIRO_T2	2	3	1	0.3	0.4	0.1	0.9	0.9	0	0	0	0	0	0
6/7/2024 10:51	24204	PROV_T3	1	1	0	6.1	6.4	0.3	0	0	0	0	0	0	0	0
6/7/2024 10:51	64101	REFR_T1	0	0	0	0	0	0	0.24	0.31	0	0	0	0	0	0
6/7/2024 10:51	13302	ORVI_T2	1	1	0	0.6	0.4	-0.2	0.72	0.77	0	0	0	0	0	0
6/7/2024 10:51	24201	PROV_T3	1	3	2	7.9	8	0.1	-1.06	-1.05	1	1	0	1200	1200	0
6/7/2024 10:53	40201	BEGA_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
6/7/2024 10:53	66902	SHIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/7/2024 10:53	66901	SHIL_T2	0	0	0	0	0	0	-0.49	-0.47	0	0	0	0	0	0
6/7/2024 10:53	27502	WEIS_T2	0	0	0	0	0	0	-0.08	0.02	0	0	0	0	0	0
6/7/2024 10:53	44301	BEAV_T2	2	2	0	0.35	0.5	0.15	0.65	0.54	4	4	0	3000	3000	0
6/7/2024 10:54	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 10:54	46206	DANV_T2	19	51	32	0.58	0.46	-0.12	3.44	3.44	1	1	0	1200	1200	0
6/7/2024 10:56	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 10:56	46206	DANV_T2	19	51	32	0.58	0.46	-0.12	3.44	3.44	1	1	0	1200	1200	0
6/7/2024 10:57	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 10:57	46206	DANV_T2	19	51	32	0.58	0.46	-0.12	3.44	3.44	1	1	0	1200	1200	0
6/7/2024 10:58	46206	DANV_T2	19	51	32	0.58	0.46	-0.12	10.33	10.32	3	3	0	3600	3600	0
6/7/2024 10:58	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 10:58	52402	GRPA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/7/2024 10:58	52403	GRPA_T2	1	0	-1	0.6	0	-0.6	-0.19	-0.21	0	0	0	0	0	0
6/7/2024 10:58	40201	BEGA_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
6/7/2024 10:59	64203	KINZ_T1	1	2	1	0.9	0.8	-0.1	0.51	0.42	3	3	0	2100	2100	0
6/7/2024 10:59	64201	KINZ_T1	1	2	1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/7/2024 10:59	64204	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/7/2024 11:01	45801	HEGI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/7/2024 11:03	12701	MACU_T1	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
6/7/2024 11:03	16406	MOPO_T1	0	0	0	0	0	0	-0.38	-0.38	1	1	0	1200	1200	0
6/7/2024 11:05	44202	POIN_T2	0	0	0	0	0	0	-0.35	-0.44	1	1	0	1200	1200	0
6/7/2024 11:07	16103	BING_T2	1	0	-1	0.9	0	-0.9	-1.61	-1.59	2	2	0	1500	1500	0
6/7/2024 11:07	60803	BUCK_T1	0	0	0	0	0	0	-2	-1.99	2	2	0	1200	1200	0
6/7/2024 11:07	16101	BING_T2	1	2	1	10	10	0	0	0	0	0	0	0	0	0
6/7/2024 11:08	67002	STHI_T2	0	0	0	0	0	0	1.24	1.23	0	0	0	0	0	0
6/7/2024 11:09	16102	BING_T2	0	0	0	0	0	0	0.43	0.2	1	1	0	1200	1200	0
6/7/2024 11:09	55101	WERT_T1	0	0	0	0	0	0	-3.31	-3.55	8	8	0	6600	6600	0
6/7/2024 11:09	16101	BING_T2	1	2	1	10	10	0	0	0	0	0	0	0	0	0
6/7/2024 11:09	16103	BING_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
6/7/2024 11:11	60803	BUCK_T1	0	0	0	0	0	0	-1	-0.99	1	1	0	600	600	0
6/7/2024 11:13	52004	LING_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
6/7/2024 11:13	26402	INOR_T1	0	0	0	0	0	0	-1.54	-1.57	1	1	0	600	600	0
6/7/2024 11:13	52002	LING_T2	0	0	0	0	0	0	0.47	0.51	0	0	0	0	0	0
6/7/2024 11:13	47901	HRDG_T1	1	0	-1	0.1	0	-0.1	1.41	1.96	1	1	0	1200	1200	0
6/7/2024 11:13	26401	INOR_T1	1	4	3	6.5	2.05	-4.45	0	0	0	0	0	0	0	0
6/7/2024 11:14	53501	EVIL_T2	1	1	0	0.4	0.1	-0.3	-0.48	-0.42	2	2	0	1500	1500	0
6/7/2024 11:14	52004	LING_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
6/7/2024 11:14	53502	EVIL_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/7/2024 11:14	52002	LING_T2	0	0	0	0	0	0	0.94	1.03	0	0	0	0	0	0
6/7/2024 11:14	45802	HEGI_T2	6	3	-3	0.47	0.47	0	0	0	2	2	0	1200	1200	0
6/7/2024 11:14	47901	HRDG_T1	1	0	-1	0.1	0	-0.1	1.41	1.96	1	1	0	1200	1200	0
6/7/2024 11:15	52004	LING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/7/2024 11:15	52002	LING_T2	0	0	0	0	0	0	0.47	0.51	0	0	0	0	0	0
6/7/2024 11:18	65003	NEFF_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/7/2024 11:18	52004	LING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/7/2024 11:18	65005	NEFF_T2	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
6/7/2024 11:18	65004	NEFF_T2	0	3	3	0	0.33	0.33	-0.67	-0.67	1	1	0	600	600	0
6/7/2024 11:18	52002	LING_T2	0	0	0	0	0	0	0.47	0.51	0	0	0	0	0	0
6/7/2024 11:19	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-2.31	-2.38	4	4	0	3000	3000	0
6/7/2024 11:19	56501	ROCK_T2	1	4	3	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
6/7/2024 11:19	45002	LIME_2	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
6/7/2024 11:19	56504	ROCK_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
6/7/2024 11:19	45003	LIME_2	1	1	0	2.5	3.5	1	0.48	0.44	0	0	0	0	0	0
6/7/2024 11:19	12701	MACU_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
6/7/2024 11:20	66504	SMAN_T2	0	0	0	0	0	0	-0.82	-0.8	1	1	0	1200	1200	0
6/7/2024 11:20	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/7/2024 11:20	66502	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/7/2024 11:23	12601	MACA_T1	2	2	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
6/7/2024 11:23	67303	WYOM_T2	0	0	0	0	0	0	-0.89	-0.82	0	0	0	0	0	0
6/7/2024 11:23	12604	MACA_T1	2	1	-1	0.45	0.8	0.35	-0.29	-0.29	0	0	0	0	0	0
6/7/2024 11:24	12601	MACA_T1	2	2	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
6/7/2024 11:24	12604	MACA_T1	2	1	-1	0.45	0.8	0.35	-0.59	-0.57	0	0	0	0	0	0
6/7/2024 11:25	54504	ENOL_T2	1	0	-1	0.7	0	-0.7	-0.76	-0.74	1	1	0	600	600	0
6/7/2024 11:25	67303	WYOM_T2	0	0	0	0	0	0	-0.89	-0.82	0	0	0	0	0	0
6/7/2024 11:25	54505	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/7/2024 11:28	54504	ENOL_T2	1	0	-1	0.7	0	-0.7	-0.76	-0.74	1	1	0	600	600	0
6/7/2024 11:28	54505	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/7/2024 11:29	24103	EHAZ_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
6/7/2024 11:29	13503	MCMI_T2	1	1	0	0.5	0.1	-0.4	0.05	0.05	0	0	0	0	0	0
6/7/2024 11:29	24102	EHAZ_T1	1	3	2	2.4	1.3	-1.1	0	0	0	0	0	0	0	0
6/7/2024 11:29	24105	EHAZ_T1	4	4	0	5.53	5.58	0.05	0	0	0	0	0	0	0	0
6/7/2024 11:29	24101	EHAZ_T1	3	12	9	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
6/7/2024 11:29	62601	ENGL_T1	0	0	0	0	0	0	-0.06	-0.14	0	0	0	0	0	0
6/7/2024 11:30	45002	LIME_2	1	1	0	4.9	5.1	0.2	0	0	0	0	0	0	0	0
6/7/2024 11:30	45003	LIME_2	1	1	0	3.5	3.5	0	0.44	0.45	0	0	0	0	0	0
6/7/2024 11:30	11901	ETEK_T2	0	0	0	0	0	0	0.72	0.68	0	0	0	0	0	0
6/7/2024 11:30	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/7/2024 11:33	64101	REFR_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
6/7/2024 11:33	43402	BENT_T1	2	0	-2	0.4	0	-0.4	-0.6	-0.61	1	1	0	900	900	0
6/7/2024 11:34	51004	NHAR_T1	1	1	0	6.7	6.7	0	-1.32	-1.34	0	0	0	0	0	0
6/7/2024 11:34	43402	BENT_T1	2	0	-2	0.4	0	-0.4	-0.6	-0.61	1	1	0	900	900	0
6/7/2024 11:34	64101	REFR_T1	0	0	0	0	0	0	2.05	2.08	0	0	0	0	0	0
6/7/2024 11:34	51002	NHAR_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/7/2024 11:34	12801	MICK_T1	0	0	0	0	0	0	-0.4	-0.4	1	1	0	600	600	0
6/7/2024 11:34	12803	MICK_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/7/2024 11:35	64101	REFR_T1	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
6/7/2024 11:35	45802	HEGI_T2	3	2	-1	0.47	1.4	0.93	0	0	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/7/2024 11:35	43108	SMIL_T2	0	0	0	0	0	0	-0.77	-0.78	1	1	0	1200	1200	0
6/7/2024 11:37	65205	PRIN_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
6/7/2024 11:38	64101	REFR_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
6/7/2024 11:38	60201	ATGL_T2	0	0	0	0	0	0	0.31	0.29	2	2	0	900	900	0
6/7/2024 11:39	60803	BUCK_T1	0	0	0	0	0	0	-0.99	-0.98	1	1	0	600	600	0
6/7/2024 11:40	56801	BENV_T1	13	17	4	1.08	0.86	-0.22	-2.91	-2.63	8	8	0	4800	4800	0
6/7/2024 11:40	56803	BENV_T1	1	3	2	2.3	0.47	-1.83	0	0	0	0	0	0	0	0
6/7/2024 11:40	61303	EARL_T1	0	0	0	0	0	0	0.84	0.97	0	0	0	0	0	0
6/7/2024 11:40	10805	CHHI_T2	12	20	8	0.58	0.45	-0.13	-0.42	-0.33	1	1	0	600	600	0
6/7/2024 11:41	56803	BENV_T1	1	3	2	2.3	0.47	-1.83	0	0	0	0	0	0	0	0
6/7/2024 11:41	56801	BENV_T1	13	17	4	1.08	0.86	-0.22	-2.18	-1.97	6	6	0	3600	3600	0
6/7/2024 11:42	63306	GREE_T1	0	0	0	0	0	0	-1.6	-1.58	1	1	0	900	900	0
6/7/2024 11:42	56801	BENV_T1	13	17	4	1.08	0.86	-0.22	-0.73	-0.66	2	2	0	1200	1200	0
6/7/2024 11:42	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/7/2024 11:42	56803	BENV_T1	1	3	2	2.3	0.47	-1.83	0	0	0	0	0	0	0	0
6/7/2024 11:43	63306	GREE_T1	0	0	0	0	0	0	-1.6	-1.58	1	1	0	900	900	0
6/7/2024 11:43	56801	BENV_T1	13	17	4	1.08	0.86	-0.22	-0.73	-0.66	2	2	0	1200	1200	0
6/7/2024 11:43	56803	BENV_T1	1	3	2	2.3	0.47	-1.83	0	0	0	0	0	0	0	0
6/7/2024 11:44	41801	GOCI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/7/2024 11:44	53903	HALI_T2	2	3	1	1.1	0.83	-0.27	0	0	0	0	0	0	0	0
6/7/2024 11:44	53902	HALI_T2	1	3	2	5.3	2.03	-3.27	0	0	0	0	0	0	0	0
6/7/2024 11:44	46101	MACI_T2	0	0	0	0	0	0	-1.22	-1.16	2	2	0	2400	2400	0
6/7/2024 11:44	53901	HALI_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
6/7/2024 11:45	56801	BENV_T1	17	20	3	0.84	0.98	0.14	-1.45	-1.32	4	4	0	2400	2400	0
6/7/2024 11:45	63306	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 11:45	56803	BENV_T1	3	3	0	0.47	0.5	0.03	0	0	0	0	0	0	0	0
6/7/2024 11:45	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 11:46	45702	LIND_T2	1	3	2	1.7	0.7	-1	-0.48	-0.46	0	0	0	0	0	0
6/7/2024 11:46	55002	NEWP_T1	3	2	-1	0.17	0.35	0.18	-0.09	-0.09	0	0	0	0	0	0
6/7/2024 11:46	45801	HEGI_T1	0	1	1	0	0	0	0	0	1	1	0	900	900	0
6/7/2024 11:46	58402	MORO_T1	0	0	0	0	0	0	-0.78	-0.81	3	3	0	2400	2400	0
6/7/2024 11:47	58402	MORO_T1	0	0	0	0	0	0	-1.56	-1.62	6	6	0	4800	4800	0
6/7/2024 11:48	65501	MOJO_T1	0	0	0	0	0	0	-1.72	-1.74	2	2	0	1800	1800	0
6/7/2024 11:49	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 11:49	45702	LIND_T2	1	3	2	1.7	0.7	-1	-0.48	-0.46	0	0	0	0	0	0
6/7/2024 11:49	43202	MVIL_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
6/7/2024 11:49	64101	REFR_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
6/7/2024 11:50	64101	REFR_T1	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
6/7/2024 11:50	65902	SAKR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 11:50	44201	POIN_T1	0	20	20	0	0.12	0.12	-1.96	-1.91	2	2	0	2100	2100	0
6/7/2024 11:50	67103	SPRI_T1	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
6/7/2024 11:50	55002	NEWP_T1	3	2	-1	0.17	0.35	0.18	-0.27	-0.27	0	0	0	0	0	0
6/7/2024 11:50	65901	SAKR_T2	1	1	0	6.6	7.9	1.3	-0.61	-0.66	2	2	0	1500	1500	0
6/7/2024 11:54	23202	HIRU_T2	1	2	1	0.2	0.35	0.15	0.11	0.12	0	0	0	0	0	0
6/7/2024 11:54	23203	HIRU_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/7/2024 11:54	46206	DANV_T2	32	51	19	0.48	0.62	0.14	3.41	3.4	1	1	0	1200	1200	0
6/7/2024 11:55	55003	NEWP_T2	6	6	0	0.18	0.23	0.05	-0.43	-0.43	1	1	0	600	600	0
6/7/2024 11:55	56801	BENV_T1	17	20	3	0.84	0.98	0.14	-1.32	-1.25	4	4	0	2400	2400	0
6/7/2024 11:55	46206	DANV_T2	32	51	19	0.48	0.62	0.14	3.41	3.4	1	1	0	1200	1200	0
6/7/2024 11:55	56803	BENV_T1	3	3	0	0.47	0.5	0.03	0	0	0	0	0	0	0	0
6/7/2024 11:56	24902	WHHA_T1	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
6/7/2024 11:56	10801	CHHI_T1	3	3	0	0.63	0.7	0.07	-1.1	-1.2	3	3	0	2100	2100	0
6/7/2024 11:56	60102	COCA_T1	0	0	0	0	0	0	-0.99	-1.49	3	3	0	2100	2100	0
6/7/2024 11:56	46206	DANV_T2	32	51	19	0.48	0.62	0.14	10.23	10.19	3	3	0	3600	3600	0
6/7/2024 11:57	64201	KINZ_T1	2	1	-1	0.85	0	-0.85	0	0	0	0	0	0	0	0
6/7/2024 11:57	64203	KINZ_T1	2	2	0	0.6	0.8	0.2	0.55	0.21	3	3	0	2100	2100	0
6/7/2024 11:57	64204	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 11:58	60902	DONG_T2	0	0	0	0	0	0	0.67	1.34	0	0	0	0	0	0
6/7/2024 11:58	64201	KINZ_T1	2	1	-1	0.85	0	-0.85	0	0	0	0	0	0	0	0
6/7/2024 11:58	64203	KINZ_T1	2	2	0	0.6	0.8	0.2	0.55	0.21	3	3	0	2100	2100	0
6/7/2024 11:58	56802	BENV_T2	1	1	0	0.6	0.4	-0.2	-0.27	-0.26	0	0	0	0	0	0
6/7/2024 11:58	64204	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 11:59	52002	LING_T2	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
6/7/2024 11:59	52004	LING_T2	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
6/7/2024 11:59	54506	ENOL_T2	0	0	0	0	0	0	-0.5	-0.41	1	1	0	600	600	0
6/7/2024 11:59	54505	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/7/2024 12:00	25402	LAHA_T2	1	2	1	0.2	0.45	0.25	-0.39	-0.26	0	0	0	0	0	0
6/7/2024 12:02	16402	MOPO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 12:02	58402	MORO_T1	0	0	0	0	0	0	-0.81	-0.8	3	3	0	2400	2400	0
6/7/2024 12:02	52002	LING_T2	0	1	1	0	0	0	0.46	0.48	0	0	0	0	0	0
6/7/2024 12:02	52004	LING_T2	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
6/7/2024 12:02	16401	MOPO_T1	1	0	-1	0.1	0	-0.1	0.28	0.28	0	0	0	0	0	0
6/7/2024 12:05	64802	MONE_T2	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
6/7/2024 12:05	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 12:05	67605	WARW_T1	0	1	1	0	1.6	1.6	-0.73	-0.73	0	0	0	0	0	0
6/7/2024 12:06	55002	NEWP_T1	1	3	2	0.1	0.37	0.27	-0.09	-0.09	0	0	0	0	0	0
6/7/2024 12:06	10102	ALLE_T2	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
6/7/2024 12:06	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 12:07	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/7/2024 12:09	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 12:09	67605	WARW_T1	0	1	1	0	1.6	1.6	-0.73	-0.72	0	0	0	0	0	0
6/7/2024 12:10	46206	DANV_T2	47	29	-18	0.39	0.62	0.23	3.4	3.41	1	1	0	1200	1200	0
6/7/2024 12:10	61505	EPET_T1	0	0	0	0	0	0	0.97	0.95	0	0	0	0	0	0
6/7/2024 12:10	60801	BUCK_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1800	1800	0
6/7/2024 12:11	20401	ASHF_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
6/7/2024 12:11	20403	ASHF_T2	0	1	1	0	0.1	0.1	1.76	1.47	0	0	0	0	0	0
6/7/2024 12:11	62102	ELAN_T1	0	0	0	0	0	0	1.42	1.43	0	0	0	0	0	0
6/7/2024 12:11	60201	ATGL_T2	0	0	0	0	0	0	0.28	0.29	2	2	0	900	900	0
6/7/2024 12:11	60801	BUCK_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
6/7/2024 12:12	46206	DANV_T2	47	29	-18	0.39	0.62	0.23	6.79	6.81	2	2	0	2400	2400	0
6/7/2024 12:12	61803	EELI_T2	0	0	0	0	0	0	0.67	0.61	1	1	0	600	600	0
6/7/2024 12:13	24104	EHAZ_T1	0	0	0	0	0	0	-0.66	-0.68	1	1	0	1200	1200	0
6/7/2024 12:13	24102	EHAZ_T1	6	6	0	1.48	1.95	0.47	0	0	0	0	0	0	0	0
6/7/2024 12:13	24105	EHAZ_T1	4	4	0	5.85	5.6	-0.25	0	0	0	0	0	0	0	0
6/7/2024 12:14	43402	BENT_T1	0	0	0	0	0	0	-0.57	-0.6	1	1	0	900	900	0
6/7/2024 12:15	52102	MEIS_T1	0	2	2	0	0.85	0.85	0	0	1	1	0	450	450	0
6/7/2024 12:15	43402	BENT_T1	0	0	0	0	0	0	-0.57	-0.6	1	1	0	900	900	0
6/7/2024 12:15	52101	MEIS_T1	2	3	1	0.75	0.83	0.08	0	0	0	0	0	0	0	0
6/7/2024 12:16	67402	WAKE_T2	0	0	0	0	0	0	0.9	0.9	1	1	0	600	600	0
6/7/2024 12:16	41502	FAIR_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
6/7/2024 12:18	41502	FAIR_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
6/7/2024 12:20	52101	MEIS_T1	2	3	1	0.75	0.83	0.08	0	0	0	0	0	0	0	0
6/7/2024 12:20	52102	MEIS_T1	0	2	2	0	0.85	0.85	0	0	1	1	0	450	450	0
6/7/2024 12:21	66702	STRA_T1	0	0	0	0	0	0	-1.18	-1.18	3	3	0	2700	2700	0
6/7/2024 12:21	67502	WEWI_T2	1	1	0	0.4	0.5	0.1	-0.63	-0.77	1	1	0	900	900	0
6/7/2024 12:21	66703	STRA_T1	0	0	0	0	0	0	0.63	0.7	0	0	0	0	0	0
6/7/2024 12:21	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 12:21	66701	STRA_T1	2	1	-1	0.65	1	0.35	0	0	0	0	0	0	0	0
6/7/2024 12:21	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 12:21	67605	WARW_T1	0	1	1	0	1.6	1.6	-0.72	-0.71	0	0	0	0	0	0
6/7/2024 12:21	67503	WEWI_T2	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
6/7/2024 12:21	59101	WALK_T2	0	0	0	0	0	0	4.77	4.98	0	0	0	0	0	0
6/7/2024 12:22	20403	ASHF_T2	0	1	1	0	0.1	0.1	1.47	1.53	0	0	0	0	0	0
6/7/2024 12:22	45902	AUBU_T1	0	0	0	0	0	0	-0.36	-0.29	1	1	0	600	600	0
6/7/2024 12:22	43105	SMIL_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
6/7/2024 12:22	20401	ASHF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/7/2024 12:22	43101	SMIL_T2	0	1	1	0	0.4	0.4	-0.5	-0.5	0	0	0	0	0	0
6/7/2024 12:22	43102	SMIL_T2	4	5	1	0.1	0.16	0.06	0	0	0	0	0	0	0	0
6/7/2024 12:23	10205	ALLE_T3	2	2	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
6/7/2024 12:23	10105	ALLE_T3	3	15	12	0.47	0.7	0.23	0	0	0	0	0	0	0	0
6/7/2024 12:23	10109	ALLE_T3	3	3	0	0.33	0	-0.33	0	0	0	0	0	0	0	0
6/7/2024 12:23	10103	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 12:24	57006	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 12:24	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 12:24	57004	WHHI_T2	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
6/7/2024 12:24	67605	WARW_T1	0	1	1	0	1.6	1.6	-0.72	-0.71	0	0	0	0	0	0
6/7/2024 12:24	46206	DANV_T2	18	44	26	0.68	0.65	-0.03	3.41	3.44	1	1	0	1200	1200	0
6/7/2024 12:26	67502	WEWI_T2	1	1	0	0.4	0.5	0.1	-0.63	-0.77	1	1	0	900	900	0
6/7/2024 12:26	25603	ARRO_T1	1	1	0	0.8	0.4	-0.4	-0.03	-0.02	0	0	0	0	0	0
6/7/2024 12:26	49803	UNIV_T1	0	1	1	0	0.6	0.6	-0.64	-0.59	0	0	0	0	0	0
6/7/2024 12:26	46206	DANV_T2	18	44	26	0.68	0.65	-0.03	3.41	3.44	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/7/2024 12:27	10801	CHHI_T1	3	5	2	0.6	0.86	0.26	-1.16	-1.13	3	3	0	2100	2100	0
6/7/2024 12:27	25603	ARRO_T1	1	1	0	0.8	0.4	-0.4	-0.03	-0.02	0	0	0	0	0	0
6/7/2024 12:27	46206	DANV_T2	18	44	26	0.68	0.65	-0.03	3.41	3.44	1	1	0	1200	1200	0
6/7/2024 12:28	53501	EVIL_T2	1	1	0	0.9	1.4	0.5	-0.29	-0.27	2	2	0	1500	1500	0
6/7/2024 12:30	67605	WARW_T1	1	1	0	1.6	1.6	0	-0.72	-0.71	0	0	0	0	0	0
6/7/2024 12:30	67103	SPRI_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
6/7/2024 12:30	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/7/2024 12:31	45001	LIME_2	7	0	-7	0.14	0	-0.14	0	0	0	0	0	0	0	0
6/7/2024 12:31	45002	LIME_2	1	1	0	4.2	4.4	0.2	0	0	0	0	0	0	0	0
6/7/2024 12:31	45003	LIME_2	1	1	0	4	3.4	-0.6	0.46	0.5	0	0	0	0	0	0
6/7/2024 12:32	60501	NMAN_T2	3	3	0	3.5	3.5	0	0	0	0	0	0	0	0	0
6/7/2024 12:32	10109	ALLE_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 12:32	10105	ALLE_T3	4	15	11	0.7	0.86	0.16	0	0	0	0	0	0	0	0
6/7/2024 12:32	13503	MCMI_T2	217	226	9	0.53	0.46	-0.07	-1.62	-1.62	0	0	0	0	0	0
6/7/2024 12:32	10205	ALLE_T3	2	2	0	0.9	1.35	0.45	0	0	0	0	0	0	0	0
6/7/2024 12:32	60504	NMAN_T2	1	0	-1	0.1	0	-0.1	0.05	0.07	1	1	0	1200	1200	0
6/7/2024 12:32	10103	ALLE_T3	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 12:33	66502	SMAN_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
6/7/2024 12:33	66501	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 12:33	45003	LIME_2	1	1	0	4	3.4	-0.6	0.46	0.5	0	0	0	0	0	0
6/7/2024 12:33	66504	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/7/2024 12:33	13503	MCMI_T2	217	226	9	0.53	0.46	-0.07	-0.81	-0.81	0	0	0	0	0	0
6/7/2024 12:33	45001	LIME_2	7	0	-7	0.14	0	-0.14	0	0	0	0	0	0	0	0
6/7/2024 12:33	45002	LIME_2	1	1	0	4.2	4.4	0.2	0	0	0	0	0	0	0	0
6/7/2024 12:33	54206	PENN_T2	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
6/7/2024 12:34	58201	NEWV_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/7/2024 12:34	64101	REFR_T1	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
6/7/2024 12:34	58202	NEWV_T1	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
6/7/2024 12:34	65205	PRIN_T1	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
6/7/2024 12:35	43402	BENT_T1	0	1	1	0	0.3	0.3	-0.6	-0.63	1	1	0	900	900	0
6/7/2024 12:35	65604	QVIL_T2	0	1	1	0	0	0	0.73	0.73	0	0	0	0	0	0
6/7/2024 12:35	59202	THOM_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/7/2024 12:35	58402	MORO_T1	0	0	0	0	0	0	-0.78	-0.75	3	3	0	2400	2400	0
6/7/2024 12:36	45303	WBER_T2	3	0	-3	0.13	0	-0.13	-0.64	-0.64	0	0	0	0	0	0
6/7/2024 12:36	43402	BENT_T1	0	1	1	0	0.3	0.3	-0.63	-0.56	1	1	0	900	900	0
6/7/2024 12:37	57004	WHHI_T2	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
6/7/2024 12:37	57403	SPAN_T1	0	1	1	0	0.2	0.2	0.31	0.32	0	0	0	0	0	0
6/7/2024 12:37	67805	WLAN_T1	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
6/7/2024 12:37	67605	WARW_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
6/7/2024 12:37	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/7/2024 12:37	67604	WARW_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
6/7/2024 12:37	57401	SPAN_T1	0	2	2	0	3.65	3.65	0	0	0	0	0	0	0	0
6/7/2024 12:37	64101	REFR_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
6/7/2024 12:37	57006	WHHI_T2	1	0	-1	0.2	0	-0.2	0.18	0.18	0	0	0	0	0	0
6/7/2024 12:38	57401	SPAN_T1	0	2	2	0	3.65	3.65	-1.01	-0.98	1	1	0	600	600	0
6/7/2024 12:38	67605	WARW_T1	1	1	0	1.6	1.6	0	-0.71	-0.7	0	0	0	0	0	0
6/7/2024 12:38	67804	WLAN_T1	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
6/7/2024 12:38	67106	SPRI_T2	0	0	0	0	0	0	-1.57	-1.56	2	2	0	1500	1500	0
6/7/2024 12:38	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/7/2024 12:38	64101	REFR_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
6/7/2024 12:38	67803	WLAN_T1	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
6/7/2024 12:38	57403	SPAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 12:38	45402	WBLO_T2	1	0	-1	0.3	0	-0.3	-0.3	-0.3	0	0	0	0	0	0
6/7/2024 12:39	54602	SUMM_T2	0	0	0	0	0	0	-2.02	-2.05	1	1	0	600	600	0
6/7/2024 12:39	60902	DONG_T2	0	0	0	0	0	0	1.27	1.24	0	0	0	0	0	0
6/7/2024 12:40	67605	WARW_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
6/7/2024 12:40	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/7/2024 12:40	67604	WARW_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
6/7/2024 12:41	46206	DANV_T2	26	40	14	0.65	0.54	-0.11	3.44	3.47	1	1	0	1200	1200	0
6/7/2024 12:41	57006	WHHI_T2	1	0	-1	0.2	0	-0.2	0.18	0.18	0	0	0	0	0	0
6/7/2024 12:41	62105	ELAN_T1	0	0	0	0	0	0	0.91	0.92	0	0	0	0	0	0
6/7/2024 12:42	62602	ENGL_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
6/7/2024 12:42	53601	DALM_T2	1	1	0	0.5	0.1	-0.4	-0.06	-0.01	1	1	0	900	900	0
6/7/2024 12:43	54506	ENOL_T2	0	0	0	0	0	0	-0.45	-0.48	1	1	0	600	600	0
6/7/2024 12:43	45802	HEGI_T2	11	19	8	0.34	1.4	1.06	0	0	2	2	0	1200	1200	0
6/7/2024 12:43	54505	ENOL_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/7/2024 12:43	54502	ENOL_T2	0	0	0	0	0	0	-1.08	-1.08	1	1	0	600	600	0
6/7/2024 12:43	54504	ENOL_T2	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
6/7/2024 12:43	46206	DANV_T2	26	40	14	0.65	0.54	-0.11	6.87	6.93	2	2	0	2400	2400	0
6/7/2024 12:43	62606	ENGL_T1	0	0	0	0	0	0	-1.1	-1.18	2	2	0	1500	1500	0
6/7/2024 12:44	45802	HEGI_T2	11	19	8	0.34	1.4	1.06	0	0	2	2	0	1200	1200	0
6/7/2024 12:47	41205	KENM_T2	0	0	0	0	0	0	-0.58	-0.55	1	1	0	600	600	0
6/7/2024 12:47	53501	EVIL_T2	1	3	2	1.4	0.77	-0.63	0	0	0	0	0	0	0	0
6/7/2024 12:47	53502	EVIL_T2	0	0	0	0	0	0	-0.05	-0.01	2	2	0	1200	1200	0
6/7/2024 12:48	13503	MCMI_T2	198	240	42	0.42	0.58	0.16	-2.42	-2.42	0	0	0	0	0	0
6/7/2024 12:48	42902	MIDD_T2	3	3	0	0.17	0.4	0.23	0	0	0	0	0	0	0	0
6/7/2024 12:48	42903	MIDD_T2	4	2	-2	1.13	1.75	0.62	0.35	0.45	0	0	0	0	0	0
6/7/2024 12:52	43105	SMIL_T2	2	1	-1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
6/7/2024 12:52	58003	WCAR_T1	4	4	0	0.75	0.65	-0.1	0.4	0.4	1	1	0	600	600	0
6/7/2024 12:52	43102	SMIL_T2	5	1	-4	0.16	0.1	-0.06	-0.56	-0.56	1	1	0	600	600	0
6/7/2024 12:52	58001	WCAR_T1	5	4	-1	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
6/7/2024 12:52	43101	SMIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/7/2024 12:53	55101	WERT_T1	0	0	0	0	0	0	-1.63	-1.72	4	4	0	3300	3300	0
6/7/2024 12:53	55103	WERT_T1	1	1	0	4.4	4.3	-0.1	0	0	0	0	0	0	0	0
6/7/2024 12:53	67605	WARW_T1	1	1	0	1.6	1.1	-0.5	-1.41	-1.39	0	0	0	0	0	0
6/7/2024 12:54	58003	WCAR_T1	4	4	0	0.75	0.65	-0.1	0.4	0.4	1	1	0	600	600	0
6/7/2024 12:54	43802	SWIL_T1	0	0	0	0	0	0	0.03	0.03	1	1	0	600	600	0
6/7/2024 12:54	43801	SWIL_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
6/7/2024 12:54	51101	CARL_T1	1	1	0	7	7.4	0.4	0	0	0	0	0	0	0	0
6/7/2024 12:54	51102	CARL_T1	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
6/7/2024 12:54	51108	CARL_T1	0	0	0	0	0	0	-0.29	-0.31	1	1	0	600	600	0
6/7/2024 12:54	58001	WCAR_T1	5	4	-1	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
6/7/2024 12:54	67801	WLAN_T1	0	0	0	0	0	0	0.23	0.26	0	0	0	0	0	0
6/7/2024 12:55	45501	DERR_T2	0	1	1	0	0.1	0.1	0.67	0.69	2	2	0	1800	1800	0
6/7/2024 12:56	44301	BEAV_T2	1	2	1	0.1	0.2	0.1	-0.46	-0.37	2	2	0	1500	1500	0
6/7/2024 12:56	44302	BEAV_T2	3	7	4	0.43	0.63	0.2	0	0	0	0	0	0	0	0
6/7/2024 12:57	17802	GILB_T1	0	1	1	0	0.3	0.3	0.35	0.36	0	0	0	0	0	0
6/7/2024 12:57	63305	GREE_T1	0	0	0	0	0	0	-3.25	-3.26	2	2	0	1800	1800	0
6/7/2024 12:58	17805	GILB_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
6/7/2024 12:58	56801	BENV_T1	12	10	-2	0.53	0.56	0.03	-0.07	-0.16	1	1	0	600	600	0
6/7/2024 12:58	56803	BENV_T1	2	5	3	1.35	0.3	-1.05	0	0	0	0	0	0	0	0
6/7/2024 12:59	56804	LITI_T1	0	0	0	0	0	0	0.64	0.48	1	1	0	600	600	0
6/7/2024 12:59	56801	BENV_T1	12	10	-2	0.53	0.56	0.03	-0.15	-0.32	2	2	0	1200	1200	0
6/7/2024 12:59	56803	BENV_T1	2	5	3	1.35	0.3	-1.05	0	0	0	0	0	0	0	0
6/7/2024 13:00	45002	LIME_2	1	1	0	4.4	5.1	0.7	0	0	0	0	0	0	0	0
6/7/2024 13:00	45003	LIME_2	1	2	1	3.2	2.9	-0.3	0.48	0.45	0	0	0	0	0	0
6/7/2024 13:00	56803	BENV_T1	4	7	3	0.93	0.17	-0.76	0	0	0	0	0	0	0	0
6/7/2024 13:00	56801	BENV_T1	9	8	-1	0.54	0.55	0.01	-0.22	-0.48	3	3	0	1800	1800	0
6/7/2024 13:02	41502	FAIR_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
6/7/2024 13:02	46602	LACR_T1	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
6/7/2024 13:03	46506	LOHA_T1	0	1	1	0	0.9	0.9	-0.22	-0.25	0	0	0	0	0	0
6/7/2024 13:03	10105	ALLE_T3	12	11	-1	1.13	0.6	-0.53	0	0	0	0	0	0	0	0
6/7/2024 13:03	10102	ALLE_T2	1	1	0	7.9	7.6	-0.3	0	0	0	0	0	0	0	0
6/7/2024 13:03	10103	ALLE_T3	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/7/2024 13:03	10205	ALLE_T3	2	2	0	1.35	0.2	-1.15	0	0	0	0	0	0	0	0
6/7/2024 13:03	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 13:03	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 13:04	42903	MIDD_T2	2	2	0	1.75	1.55	-0.2	0	0	0	0	0	0	0	0
6/7/2024 13:04	42902	MIDD_T2	3	1	-2	0.4	0.1	-0.3	0.54	0.52	0	0	0	0	0	0
6/7/2024 13:04	56803	BENV_T1	4	7	3	0.93	0.17	-0.76	0	0	0	0	0	0	0	0
6/7/2024 13:04	56801	BENV_T1	9	8	-1	0.54	0.55	0.01	-0.07	-0.16	1	1	0	600	600	0
6/7/2024 13:04	64101	REFR_T1	0	3	3	0	0	0	0.31	0.3	0	0	0	0	0	0
6/7/2024 13:04	15601	NSTR_T2	3	1	-2	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
6/7/2024 13:04	15603	NSTR_T2	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
6/7/2024 13:05	42902	MIDD_T2	3	1	-2	0.4	0.1	-0.3	0.54	0.52	0	0	0	0	0	0
6/7/2024 13:05	64101	REFR_T1	0	3	3	0	0	0	0.31	0.3	0	0	0	0	0	0
6/7/2024 13:05	56803	BENV_T1	4	7	3	0.93	0.17	-0.76	0	0	0	0	0	0	0	0
6/7/2024 13:05	56801	BENV_T1	9	8	-1	0.54	0.55	0.01	-0.07	-0.16	1	1	0	600	600	0
6/7/2024 13:05	42903	MIDD_T2	2	2	0	1.75	1.55	-0.2	0	0	0	0	0	0	0	0
6/7/2024 13:07	64101	REFR_T1	0	3	3	0	0	0	0.3	0.29	0	0	0	0	0	0
6/7/2024 13:08	64101	REFR_T1	0	3	3	0	0	0	0.89	0.87	0	0	0	0	0	0
6/7/2024 13:09	64101	REFR_T1	0	3	3	0	0	0	0.3	0.29	0	0	0	0	0	0
6/7/2024 13:09	43105	SMIL_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
6/7/2024 13:09	46002	BERW_T2	0	0	0	0	0	0	-0.26	-0.33	1	1	0	900	900	0
6/7/2024 13:09	43103	SMIL_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
6/7/2024 13:09	12601	MACA_T1	0	0	0	0	0	0	1.28	1.26	0	0	0	0	0	0
6/7/2024 13:09	67502	WEWI_T2	1	0	-1	0.6	0	-0.6	-0.83	-0.82	1	1	0	900	900	0
6/7/2024 13:09	55105	WERT_T1	0	0	0	0	0	0	0.15	0.18	1	1	0	900	900	0
6/7/2024 13:09	43102	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 13:09	12606	MACA_T1	0	11	11	0	0.21	0.21	0	0	0	0	0	0	0	0
6/7/2024 13:09	55103	WERT_T1	1	1	0	5.2	3.6	-1.6	0	0	0	0	0	0	0	0
6/7/2024 13:09	46001	BERW_T1	0	0	0	0	0	0	2.64	2.71	0	0	0	0	0	0
6/7/2024 13:09	67503	WEWI_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
6/7/2024 13:12	46004	BERW_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
6/7/2024 13:14	47001	HUGH_T2	0	1	1	0	0.7	0.7	-0.33	-0.33	0	0	0	0	0	0
6/7/2024 13:15	24702	FLND_T2	3	0	-3	0.77	0	-0.77	0.34	0.51	1	1	0	1200	1200	0
6/7/2024 13:15	47001	HUGH_T2	1	0	-1	0.7	0	-0.7	-0.33	-0.33	0	0	0	0	0	0
6/7/2024 13:16	24702	FLND_T2	3	0	-3	0.77	0	-0.77	0	0	0	0	0	0	0	0
6/7/2024 13:16	24701	FLND_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
6/7/2024 13:18	64101	REFR_T1	3	0	-3	0.53	0	-0.53	0.3	0.29	0	0	0	0	0	0
6/7/2024 13:19	41901	REED_T1	9	9	0	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
6/7/2024 13:19	41902	REED_T1	1	1	0	1.4	1.1	-0.3	0.49	0.5	1	1	0	900	900	0
6/7/2024 13:19	64101	REFR_T1	3	0	-3	0.53	0	-0.53	0.3	0.29	0	0	0	0	0	0
6/7/2024 13:20	41903	REED_T1	0	0	0	0	0	0	0.05	0.16	1	1	0	1200	1200	0
6/7/2024 13:20	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 13:20	41902	REED_T1	1	1	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
6/7/2024 13:20	64101	REFR_T1	3	0	-3	0.53	0	-0.53	0.6	0.58	0	0	0	0	0	0
6/7/2024 13:20	59101	WALK_T2	0	1	1	0	0	0	3.01	2.66	0	0	0	0	0	0
6/7/2024 13:20	41901	REED_T1	9	9	0	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
6/7/2024 13:20	40302	TAMA_T3	0	0	0	0	0	0	-1.03	-1.03	1	1	0	1200	1200	0
6/7/2024 13:22	64101	REFR_T1	3	0	-3	0.53	0	-0.53	0.29	0.28	0	0	0	0	0	0
6/7/2024 13:23	67605	WARW_T1	1	2	1	1.1	1.6	0.5	-0.69	-0.68	0	0	0	0	0	0
6/7/2024 13:23	64101	REFR_T1	3	0	-3	0.53	0	-0.53	0.29	0.28	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/7/2024 13:24	45501	DERR_T2	1	2	1	0.1	0.3	0.2	0.77	0.8	2	2	0	1800	1800	0
6/7/2024 13:25	57006	WHHI_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
6/7/2024 13:25	45501	DERR_T2	1	2	1	0.1	0.3	0.2	0.77	0.8	2	2	0	1800	1800	0
6/7/2024 13:26	67605	WARW_T1	1	2	1	1.1	1.6	0.5	-0.69	-0.68	0	0	0	0	0	0
6/7/2024 13:29	61501	EPET_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
6/7/2024 13:29	61504	EPET_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
6/7/2024 13:29	52001	LING_T1	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
6/7/2024 13:29	17805	GILB_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
6/7/2024 13:30	40101	HUNT_T2	2	6	4	0.35	0.33	-0.02	-0.05	0.07	0	0	0	0	0	0
6/7/2024 13:30	61506	EPET_T2	0	0	0	0	0	0	-1.21	-1.41	2	2	0	1800	1800	0
6/7/2024 13:30	44503	HAMI_T2	0	0	0	0	0	0	-0.87	-0.9	1	1	0	1200	1200	0
6/7/2024 13:30	44504	HAMI_T2	0	0	0	0	0	0	-0.68	-0.73	0	0	0	0	0	0
6/7/2024 13:30	42903	MIDD_T2	2	2	0	0.85	1.25	0.4	0	0	0	0	0	0	0	0
6/7/2024 13:30	61501	EPET_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
6/7/2024 13:30	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 13:30	44502	HAMI_T2	1	1	0	2.1	2.4	0.3	0	0	0	0	0	0	0	0
6/7/2024 13:30	42902	MIDD_T2	0	1	1	0	0	0	0.6	0.71	0	0	0	0	0	0
6/7/2024 13:31	47802	MOCA_T2	0	1	1	0	0.3	0.3	-0.76	-0.71	0	0	0	0	0	0
6/7/2024 13:34	12803	MICK_T1	0	0	0	0	0	0	-0.22	-0.22	1	1	0	1200	1200	0
6/7/2024 13:34	12807	MICK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 13:35	65803	RTWN_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
6/7/2024 13:35	65802	RTWN_T2	1	1	0	0.8	0.7	-0.1	0.47	0.42	0	0	0	0	0	0
6/7/2024 13:35	54601	SUMM_T2	0	0	0	0	0	0	-1.24	-1.31	2	2	0	2100	2100	0
6/7/2024 13:35	64101	REFR_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
6/7/2024 13:36	64101	REFR_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
6/7/2024 13:36	12604	MACA_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
6/7/2024 13:36	52402	GRPA_T2	1	0	-1	0.1	0	-0.1	-0.65	-0.65	0	0	0	0	0	0
6/7/2024 13:36	59101	WALK_T2	1	1	0	0.5	0.1	-0.4	2.66	3.14	0	0	0	0	0	0
6/7/2024 13:36	52403	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 13:36	52404	GRPA_T2	0	176	176	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 13:36	12606	MACA_T1	11	9	-2	1.14	0.13	-1.01	0	0	0	0	0	0	0	0
6/7/2024 13:37	64204	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/7/2024 13:37	64203	KINZ_T1	1	1	0	0.9	0.9	0	0.33	0.21	3	3	0	2100	2100	0
6/7/2024 13:37	64201	KINZ_T1	3	2	-1	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
6/7/2024 13:38	64204	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/7/2024 13:38	64201	KINZ_T1	3	2	-1	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
6/7/2024 13:38	64203	KINZ_T1	1	1	0	0.9	0.9	0	0.33	0.21	3	3	0	2100	2100	0
6/7/2024 13:39	23203	HIRU_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
6/7/2024 13:39	45501	DERR_T2	0	2	2	0	0.2	0.2	0.8	0.71	2	2	0	1800	1800	0
6/7/2024 13:40	67604	WARW_T1	0	0	0	0	0	0	0.42	0.47	0	0	0	0	0	0
6/7/2024 13:40	46005	BERW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/7/2024 13:40	46001	BERW_T1	0	0	0	0	0	0	1.26	1.26	0	0	0	0	0	0
6/7/2024 13:40	60101	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 13:40	59101	WALK_T2	1	1	0	0.5	0.1	-0.4	1.57	1.57	0	0	0	0	0	0
6/7/2024 13:40	67605	WARW_T1	1	1	0	0.9	1.6	0.7	0	0	0	0	0	0	0	0
6/7/2024 13:40	60102	COCA_T1	0	0	0	0	0	0	-1.34	-0.95	3	3	0	2100	2100	0
6/7/2024 13:41	46001	BERW_T1	0	0	0	0	0	0	1.26	1.26	0	0	0	0	0	0
6/7/2024 13:41	67605	WARW_T1	1	1	0	0.9	1.6	0.7	-0.68	-0.68	0	0	0	0	0	0
6/7/2024 13:41	54505	ENOL_T2	1	1	0	0.1	0.3	0.2	-0.84	-0.83	1	1	0	600	600	0
6/7/2024 13:41	46005	BERW_T1	0	1	1	0	0.5	0.5	-1.57	-1.57	2	2	0	2100	2100	0
6/7/2024 13:42	67605	WARW_T1	1	1	0	0.9	1.6	0.7	-0.68	-0.68	0	0	0	0	0	0
6/7/2024 13:43	46005	BERW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/7/2024 13:43	46001	BERW_T1	0	0	0	0	0	0	1.26	1.26	0	0	0	0	0	0
6/7/2024 13:45	11804	FRAN_T1	12	7	-5	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
6/7/2024 13:45	54701	NEBL_T1	0	0	0	0	0	0	0	1	1	1	0	600	600	0
6/7/2024 13:45	46803	HEPB_T2	1	0	-1	0.5	0	-0.5	0.64	0.65	0	0	0	0	0	0
6/7/2024 13:45	11805	FRAN_T1	0	0	0	0	0	0	-1.76	-1.73	1	1	0	1200	1200	0
6/7/2024 13:45	46801	HEPB_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 13:46	41801	GOCI_T2	4	4	0	0.65	0.48	-0.17	0	0	0	0	0	0	0	0
6/7/2024 13:46	54505	ENOL_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/7/2024 13:46	63804	HEMP_T1	1	1	0	6.5	6.6	0.1	-0.99	-0.92	0	0	0	0	0	0
6/7/2024 13:46	54504	ENOL_T2	0	1	1	0	0.2	0.2	-0.76	-0.77	1	1	0	600	600	0
6/7/2024 13:46	46101	MACI_T2	0	0	0	0	0	0	-1.05	-1.1	2	2	0	2400	2400	0
6/7/2024 13:47	58402	MORO_T1	0	0	0	0	0	0	-0.66	-0.66	3	3	0	2400	2400	0
6/7/2024 13:48	52004	LING_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/7/2024 13:49	65603	QVIL_T2	0	0	0	0	0	0	-0.12	-0.06	0	0	0	0	0	0
6/7/2024 13:50	41504	FAIR_T2	0	1	1	0	0	0	-0.62	-0.59	0	0	0	0	0	0
6/7/2024 13:51	43302	WATS_T2	0	0	0	0	0	0	0.01	-0.1	2	2	0	1800	1800	0
6/7/2024 13:51	43301	WATS_T2	1	1	0	0.2	0.4	0.2	-0.33	-0.33	1	1	0	900	900	0
6/7/2024 13:52	27502	WEIS_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
6/7/2024 13:52	27503	WEIS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 13:55	60803	BUCK_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	600	600	0
6/7/2024 13:56	43301	WATS_T2	1	1	0	0.2	0.4	0.2	-0.33	-0.33	1	1	0	900	900	0
6/7/2024 13:56	67502	WEWI_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	900	900	0
6/7/2024 13:57	56801	BENV_T1	2	22	20	0.65	0.91	0.26	-0.13	-0.7	1	2	1	600	1200	600
6/7/2024 13:57	56803	BENV_T1	5	4	-1	1.44	0.53	-0.91	0	0	0	0	0	0	0	0
6/7/2024 13:57	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/7/2024 14:00	45601	WOOL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
6/7/2024 14:01	46504	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 14:01	63602	LETO_T1	1	0	-1	0.1	0	-0.1	-0.69	-0.56	2	2	0	1200	1200	0
6/7/2024 14:01	59301	MCAL_T1	1	2	1	0.4	0.25	-0.15	-1.27	-1.28	0	0	0	0	0	0
6/7/2024 14:01	48302	ORWI_T2	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
6/7/2024 14:01	42902	MIDD_T2	1	0	-1	0.2	0	-0.2	0.61	0.59	0	0	0	0	0	0
6/7/2024 14:01	20603	GRWO_T2	0	1	1	0	0.2	0.2	-0.48	-0.4	1	1	0	900	900	0
6/7/2024 14:01	42903	MIDD_T2	2	2	0	1.25	1.4	0.15	0	0	0	0	0	0	0	0
6/7/2024 14:01	46506	LOHA_T1	1	1	0	0.9	1	0.1	-0.3	-0.29	0	0	0	0	0	0
6/7/2024 14:03	64701	LITI_T1	1	2	1	0.1	0	-0.1	0.74	0.77	0	0	0	0	0	0
6/7/2024 14:05	42201	SHEN_T2	2	0	-2	0.55	0	-0.55	0.25	0.25	1	1	0	600	600	0
6/7/2024 14:06	43103	SMIL_T2	1	0	-1	0.2	0	-0.2	-0.48	-0.48	0	0	0	0	0	0
6/7/2024 14:06	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/7/2024 14:06	43102	SMIL_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
6/7/2024 14:06	43105	SMIL_T2	1	2	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/7/2024 14:06	42201	SHEN_T2	2	0	-2	0.55	0	-0.55	0.25	0.25	1	1	0	600	600	0
6/7/2024 14:07	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/7/2024 14:07	43103	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/7/2024 14:07	43105	SMIL_T2	1	2	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/7/2024 14:07	43102	SMIL_T2	0	4	4	0	0.13	0.13	-0.57	-0.57	1	1	0	600	600	0
6/7/2024 14:08	67001	STHI_T2	0	0	0	0	0	0	0.25	0.36	0	0	0	0	0	0
6/7/2024 14:09	51107	CARL_T1	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
6/7/2024 14:09	51101	CARL_T1	1	1	0	7.2	7.4	0.2	0	0	0	0	0	0	0	0
6/7/2024 14:09	51102	CARL_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/7/2024 14:11	45501	DERR_T2	1	1	0	0.2	1.2	1	0.73	0.65	2	2	0	1800	1800	0
6/7/2024 14:12	24701	FLND_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
6/7/2024 14:12	24702	FLND_T2	0	3	3	0	0.73	0.73	0	0	0	0	0	0	0	0
6/7/2024 14:13	41801	GOCI_T2	4	2	-2	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
6/7/2024 14:13	56803	BENV_T1	4	3	-1	1.25	0.43	-0.82	0	0	0	0	0	0	0	0
6/7/2024 14:13	56801	BENV_T1	2	22	20	0.2	0.91	0.71	-0.7	-0.73	2	2	0	1200	1200	0
6/7/2024 14:16	41801	GOCI_T2	2	1	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/7/2024 14:16	14603	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 14:16	14601	SWHI_T1	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
6/7/2024 14:22	59101	WALK_T2	0	0	0	0	0	0	1.83	1.75	0	0	0	0	0	0
6/7/2024 14:22	27605	PIRI_T2	0	0	0	0	0	0	0.96	1.11	0	0	0	0	0	0
6/7/2024 14:23	12605	MACA_T1	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
6/7/2024 14:23	12604	MACA_T1	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
6/7/2024 14:23	12601	MACA_T1	0	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0
6/7/2024 14:24	44301	BEAV_T2	0	4	4	0	0.3	0.3	-0.76	-0.12	2	1	-1	1500	600	-900
6/7/2024 14:24	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.52	1	1	0	600	600	0
6/7/2024 14:24	55103	WERT_T1	1	1	0	4.8	3.9	-0.9	0	0	0	0	0	0	0	0
6/7/2024 14:24	44302	BEAV_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
6/7/2024 14:24	55105	WERT_T1	0	0	0	0	0	0	0.2	0.2	1	1	0	900	900	0
6/7/2024 14:27	44502	HAMI_T2	1	2	1	2.5	2.6	0.1	0	0	0	0	0	0	0	0
6/7/2024 14:27	44301	BEAV_T2	0	4	4	0	0.3	0.3	-0.76	-0.12	2	1	-1	1500	600	-900
6/7/2024 14:27	44302	BEAV_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
6/7/2024 14:27	45902	AUBU_T1	0	0	0	0	0	0	-0.57	-0.52	1	1	0	600	600	0
6/7/2024 14:27	44505	HAMI_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
6/7/2024 14:28	14204	EALL_T2	0	0	0	0	0	0	0.15	0.2	0	0	0	0	0	0
6/7/2024 14:28	44502	HAMI_T2	1	2	1	2.5	2.6	0.1	-0.54	-0.55	0	0	0	0	0	0
6/7/2024 14:29	53502	EVIL_T2	0	0	0	0	0	0	-0.11	-0.04	2	2	0	1200	1200	0
6/7/2024 14:29	53501	EVIL_T2	2	4	2	0.75	0.75	0	0	0	0	0	0	0	0	0
6/7/2024 14:33	44601	MALE_T2	0	0	0	0	0	0	1.01	0.76	0	1	1	0	600	600
6/7/2024 14:39	66503	SMAN_T2	0	0	0	0	0	0	0.88	0.84	0	0	0	0	0	0
6/7/2024 14:39	66505	SMAN_T2	1	2	1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/7/2024 14:44	61504	EPET_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
6/7/2024 14:44	40902	JESH_T1	0	0	0	0	0	0	-0.23	-0.19	0	0	0	0	0	0
6/7/2024 14:44	61501	EPET_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
6/7/2024 14:44	40901	JESH_T1	1	2	1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/7/2024 14:45	64203	KINZ_T1	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
6/7/2024 14:45	64204	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/7/2024 14:45	64201	KINZ_T1	10	6	-4	0.51	0.4	-0.11	0.31	0.14	4	4	0	2100	2100	0
6/7/2024 14:46	48303	ORWI_T2	0	0	0	0	0	0	0.47	0.56	0	0	0	0	0	0
6/7/2024 14:48	40901	JESH_T1	3	0	-3	0.73	0	-0.73	0	0	0	0	0	0	0	0
6/7/2024 14:48	40902	JESH_T1	0	0	0	0	0	0	-0.23	-0.19	0	0	0	0	0	0
6/7/2024 14:50	13704	SCHN_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
6/7/2024 14:53	67801	WLAN_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
6/7/2024 14:53	67804	WLAN_T1	2	2	0	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
6/7/2024 14:53	42201	SHEN_T2	0	1	1	0	0.3	0.3	0.24	0.24	1	1	0	600	600	0
6/7/2024 14:54	43301	WATS_T2	0	2	2	0	0.45	0.45	-0.35	-0.35	1	1	0	900	900	0
6/7/2024 14:54	43302	WATS_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/7/2024 14:54	52403	GRPA_T2	1	3	2	0.2	0.2	0	0.44	0.45	0	0	0	0	0	0
6/7/2024 14:54	43304	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/7/2024 14:55	52403	GRPA_T2	1	3	2	0.2	0.2	0	0.44	0.45	0	0	0	0	0	0
6/7/2024 14:58	41202	KENM_T2	0	0	0	0	0	0	1.06	1.11	0	0	0	0	0	0
6/7/2024 14:59	52004	LING_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
6/7/2024 14:59	56801	BENV_T1	15	18	3	0.8	0.97	0.17	-1.51	-1.81	4	4	0	2400	2400	0
6/7/2024 14:59	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 14:59	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/7/2024 15:00	52102	MEIS_T1	5	3	-2	0.44	0.23	-0.21	0	0	1	1	0	450	450	0
6/7/2024 15:00	56803	BENV_T1	1	2	1	3	1.5	-1.5	0	0	0	0	0	0	0	0
6/7/2024 15:00	56801	BENV_T1	15	16	1	0.89	0.81	-0.08	-3.02	-3.61	8	8	0	4800	4800	0
6/7/2024 15:00	41204	KENM_T2	0	0	0	0	0	0	0.71	0.72	0	0	0	0	0	0
6/7/2024 15:00	52101	MEIS_T1	2	2	0	1.35	1.55	0.2	0	0	0	0	0	0	0	0
6/7/2024 15:00	41801	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/7/2024 15:01	52102	MEIS_T1	5	3	-2	0.44	0.23	-0.21	0	0	2	2	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/7/2024 15:01	52101	MEIS_T1	2	2	0	1.35	1.55	0.2	0	0	0	0	0	0	0	0
6/7/2024 15:02	26401	INOR_T1	3	2	-1	2.7	4.35	1.65	1.02	0.89	0	0	0	0	0	0
6/7/2024 15:02	26402	INOR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/7/2024 15:02	52102	MEIS_T1	5	3	-2	0.44	0.23	-0.21	0	0	1	1	0	450	450	0
6/7/2024 15:02	52101	MEIS_T1	2	2	0	1.35	1.55	0.2	0	0	0	0	0	0	0	0
6/7/2024 15:03	65205	PRIN_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
6/7/2024 15:03	26401	INOR_T1	3	2	-1	2.7	4.35	1.65	1.02	0.89	0	0	0	0	0	0
6/7/2024 15:03	65003	NEFF_T2	1	1	0	1.2	0.6	-0.6	0	0	0	0	0	0	0	0
6/7/2024 15:03	45001	LIME_2	1	10	9	0.1	0.27	0.17	0	0	0	0	0	0	0	0
6/7/2024 15:03	45003	LIME_2	1	2	1	3.9	2.45	-1.45	0	0	0	0	0	0	0	0
6/7/2024 15:03	65005	NEFF_T2	1	0	-1	0.1	0	-0.1	0.21	0.29	0	0	0	0	0	0
6/7/2024 15:03	45002	LIME_2	1	1	0	5	4.2	-0.8	0.83	0.82	0	0	0	0	0	0
6/7/2024 15:03	26402	INOR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/7/2024 15:04	52004	LING_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
6/7/2024 15:04	67502	WEWI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/7/2024 15:04	67503	WEWI_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
6/7/2024 15:05	46102	MACI_T1	0	0	0	0	0	0	0.98	0.98	0	0	0	0	0	0
6/7/2024 15:09	67605	WARW_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
6/7/2024 15:10	51101	CARL_T1	1	1	0	7.3	6.9	-0.4	-0.61	-0.54	1	1	0	600	600	0
6/7/2024 15:10	51108	CARL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/7/2024 15:10	43506	WWIL_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
6/7/2024 15:10	43504	WWIL_T1	2	3	1	0.2	0.3	0.1	0.98	0.97	0	0	0	0	0	0
6/7/2024 15:10	44703	MUNC_T2	0	0	0	0	0	0	0.88	0.88	0	0	0	0	0	0
6/7/2024 15:10	51102	CARL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/7/2024 15:10	43505	WWIL_T1	1	1	0	2.8	3.1	0.3	0	0	0	0	0	0	0	0
6/7/2024 15:11	24105	EHAZ_T1	4	4	0	5.98	5.75	-0.23	0	0	0	0	0	0	0	0
6/7/2024 15:11	40701	FFLD_T1	14	34	20	0.14	0.71	0.57	0	0	0	0	0	0	0	0
6/7/2024 15:11	17805	GILB_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
6/7/2024 15:11	24102	EHAZ_T1	1	1	0	0.5	1	0.5	0.15	0.16	0	0	0	0	0	0
6/7/2024 15:11	40703	FFLD_T1	1	4	3	0.2	0.48	0.28	0.48	0.48	0	0	0	0	0	0
6/7/2024 15:11	10801	CHHI_T1	3	6	3	0.33	0.87	0.54	-1.49	-1.39	3	3	0	2100	2100	0
6/7/2024 15:11	40702	FFLD_T1	1	73	72	0.1	0.23	0.13	0	0	0	0	0	0	0	0
6/7/2024 15:12	17805	GILB_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
6/7/2024 15:14	58003	WCAR_T1	4	4	0	0.43	0.78	0.35	0.4	0.4	1	1	0	600	600	0
6/7/2024 15:14	58001	WCAR_T1	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
6/7/2024 15:20	54201	PENN_T1	3	6	3	1.1	0.83	-0.27	-0.44	-0.46	0	0	0	0	0	0
6/7/2024 15:20	54203	PENN_T1	18	18	0	0.58	0.61	0.03	1.51	1.53	0	0	0	0	0	0
6/7/2024 15:21	54201	PENN_T1	3	6	3	1.1	0.83	-0.27	0	0	0	0	0	0	0	0
6/7/2024 15:21	54203	PENN_T1	18	18	0	0.58	0.61	0.03	0.75	0.76	0	0	0	0	0	0
6/7/2024 15:24	67601	WARW_T2	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
6/7/2024 15:25	66504	SMAN_T2	0	0	0	0	0	0	-0.76	-0.69	1	1	0	1200	1200	0
6/7/2024 15:25	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 15:26	54505	ENOL_T2	1	1	0	0.4	0.4	0	-0.81	-0.82	1	1	0	600	600	0
6/7/2024 15:27	56803	BENV_T1	1	2	1	1.5	0	-1.5	0	0	0	0	0	0	0	0
6/7/2024 15:27	17805	GILB_T2	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
6/7/2024 15:27	22903	HARW_T1	2	23	21	0.4	0	-0.4	0.56	0.6	0	0	0	0	0	0
6/7/2024 15:27	56801	BENV_T1	16	11	-5	0.78	0.57	-0.21	-0.77	-0.8	2	2	0	1200	1200	0
6/7/2024 15:30	47001	HUGH_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/7/2024 15:30	47002	HUGH_T2	2	1	-1	0.1	0.2	0.1	-0.44	-0.44	0	0	0	0	0	0
6/7/2024 15:31	52001	LING_T1	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
6/7/2024 15:31	42903	MIDD_T2	2	4	2	1.45	1.05	-0.4	0	0	0	0	0	0	0	0
6/7/2024 15:31	52004	LING_T2	0	0	0	0	0	0	0.86	0.84	0	0	0	0	0	0
6/7/2024 15:31	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 15:31	64201	KINZ_T1	19	0	-19	0.29	0	-0.29	0.27	0.19	4	4	0	2100	2100	0
6/7/2024 15:31	64204	KINZ_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
6/7/2024 15:31	42902	MIDD_T2	5	11	6	0.12	0.29	0.17	-0.03	0.05	0	0	0	0	0	0
6/7/2024 15:31	64203	KINZ_T1	1	2	1	1.1	0	-1.1	0	0	0	0	0	0	0	0
6/7/2024 15:32	47002	HUGH_T2	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/7/2024 15:32	64203	KINZ_T1	1	2	1	1.1	0	-1.1	0.56	0.46	3	3	0	2100	2100	0
6/7/2024 15:32	47001	HUGH_T2	1	0	-1	0.7	0	-0.7	-0.93	-0.74	0	0	0	0	0	0
6/7/2024 15:32	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 15:32	52001	LING_T1	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
6/7/2024 15:32	52004	LING_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
6/7/2024 15:32	64201	KINZ_T1	19	0	-19	0.29	0	-0.29	0	0	0	0	0	0	0	0
6/7/2024 15:32	64204	KINZ_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
6/7/2024 15:34	58202	NEWV_T1	0	0	0	0	0	0	0.92	0.82	0	0	0	0	0	0
6/7/2024 15:35	64101	REFR_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
6/7/2024 15:35	24602	VARD_T2	505	481	-24	0.84	0.84	0	-0.81	-0.78	0	0	0	0	0	0
6/7/2024 15:35	52004	LING_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
6/7/2024 15:35	24603	VARD_T2	37	50	13	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
6/7/2024 15:36	56504	ROCK_T2	1	0	-1	0.3	0	-0.3	-0.79	-0.8	0	0	0	0	0	0
6/7/2024 15:36	56501	ROCK_T2	2	1	-1	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
6/7/2024 15:37	64101	REFR_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
6/7/2024 15:37	56504	ROCK_T2	1	0	-1	0.3	0	-0.3	-0.8	-0.81	0	0	0	0	0	0
6/7/2024 15:37	56501	ROCK_T2	2	1	-1	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
6/7/2024 15:38	67605	WARW_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
6/7/2024 15:38	56504	ROCK_T2	1	0	-1	0.3	0	-0.3	-0.8	-0.81	0	0	0	0	0	0
6/7/2024 15:38	56501	ROCK_T2	2	1	-1	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
6/7/2024 15:45	42903	MIDD_T2	4	2	-2	1.05	1.65	0.6	0	0	0	0	0	0	0	0
6/7/2024 15:45	51402	LYKE_T1	1	0	-1	0.1	0	-0.1	-1.91	-1.95	2	2	0	1200	1200	0
6/7/2024 15:45	25402	LAHA_T2	0	0	0	0	0	0	-0.37	-0.62	0	0	0	0	0	0
6/7/2024 15:45	42901	MIDD_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/7/2024 15:45	42902	MIDD_T2	10	9	-1	0.31	0.16	-0.15	0.05	0	0	0	0	0	0	0
6/7/2024 15:46	63401	HONY_T1	0	0	0	0	0	0	0.6	0.46	1	1	0	600	600	0
6/7/2024 15:47	42903	MIDD_T2	4	2	-2	1.05	1.65	0.6	0	0	0	0	0	0	0	0
6/7/2024 15:47	63401	HONY_T1	0	0	0	0	0	0	0.6	0.46	1	1	0	600	600	0
6/7/2024 15:47	42901	MIDD_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/7/2024 15:47	42902	MIDD_T2	10	9	-1	0.31	0.16	-0.15	0.09	0.01	0	0	0	0	0	0
6/7/2024 15:48	63401	HONY_T1	0	0	0	0	0	0	0.6	0.46	1	1	0	600	600	0
6/7/2024 15:49	52102	MEIS_T1	4	80	76	0.18	0.17	-0.01	0	0	1	1	0	450	450	0
6/7/2024 15:49	52101	MEIS_T1	2	2	0	1.55	1.55	0	0	0	0	0	0	0	0	0
6/7/2024 15:51	66503	SMAN_T2	0	0	0	0	0	0	0.9	0.95	0	0	0	0	0	0
6/7/2024 15:52	41903	REED_T1	0	0	0	0	0	0	-0.06	-0.21	2	2	0	2400	2400	0
6/7/2024 15:52	41901	REED_T1	9	9	0	0.62	0.66	0.04	0	0	0	0	0	0	0	0
6/7/2024 15:52	41902	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 15:57	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 15:57	42102	FRAI_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/7/2024 15:57	56801	BENV_T1	8	7	-1	0.31	0.33	0.02	-5.02	-5.21	12	12	0	7200	7200	0
6/7/2024 15:58	56801	BENV_T1	8	7	-1	0.31	0.33	0.02	-0.84	-0.87	2	2	0	1200	1200	0
6/7/2024 15:58	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 15:59	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 15:59	56801	BENV_T1	8	7	-1	0.31	0.33	0.02	-0.84	-0.87	2	2	0	1200	1200	0
6/7/2024 16:00	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 16:00	56801	BENV_T1	5	6	1	0.38	0.55	0.17	-0.84	-0.87	2	2	0	1200	1200	0
6/7/2024 16:01	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 16:01	56801	BENV_T1	5	6	1	0.38	0.55	0.17	-0.84	-0.87	2	2	0	1200	1200	0
6/7/2024 16:02	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 16:02	58402	MORO_T1	0	0	0	0	0	0	-0.58	-0.56	3	3	0	2400	2400	0
6/7/2024 16:02	65502	MOJO_T2	0	0	0	0	0	0	-1.59	-1.54	2	2	0	1800	1800	0
6/7/2024 16:02	56801	BENV_T1	5	6	1	0.38	0.55	0.17	-2.51	-2.61	6	6	0	3600	3600	0
6/7/2024 16:02	47802	MOCA_T2	1	0	-1	0.1	0	-0.1	-0.72	-0.74	0	0	0	0	0	0
6/7/2024 16:03	12304	LANA_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/7/2024 16:03	12302	LANA_T2	0	0	0	0	0	0	-2.08	-1.98	3	3	0	2700	2700	0
6/7/2024 16:05	47802	MOCA_T2	1	0	-1	0.1	0	-0.1	-0.72	-0.74	0	0	0	0	0	0
6/7/2024 16:07	25603	ARRO_T1	5	20	15	1.12	0.25	-0.87	0	0	0	0	0	0	0	0
6/7/2024 16:07	25601	ARRO_T1	0	0	0	0	0	0	-0.54	-0.56	1	1	0	900	900	0
6/7/2024 16:07	54206	PENN_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
6/7/2024 16:09	60605	NCOL_T2	0	0	0	0	0	0	-1.05	-1.07	0	0	0	0	0	0
6/7/2024 16:11	14203	EALL_T1	0	0	0	0	0	0	0.47	0.39	1	1	0	1200	1200	0
6/7/2024 16:11	14201	EALL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/7/2024 16:12	60902	DONG_T2	0	0	0	0	0	0	1.22	1.22	0	0	0	0	0	0
6/7/2024 16:12	40801	EXCH_T2	3	2	-1	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
6/7/2024 16:12	40802	EXCH_T2	1	1	0	0.6	0.3	-0.3	-0.54	-0.74	0	0	0	0	0	0
6/7/2024 16:13	40802	EXCH_T2	1	1	0	0.6	0.3	-0.3	-1.08	-1.48	0	0	0	0	0	0
6/7/2024 16:13	40801	EXCH_T2	3	2	-1	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
6/7/2024 16:16	46001	BERW_T1	0	0	0	0	0	0	1.14	1.12	0	0	0	0	0	0
6/7/2024 16:17	20603	GRWO_T2	12	60	48	0.26	0.21	-0.05	-0.41	-0.42	1	1	0	900	900	0
6/7/2024 16:17	20601	GRWO_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
6/7/2024 16:18	64203	KINZ_T1	0	0	0	0	0	0	-0.25	0.52	2	1	-1	900	600	-300
6/7/2024 16:18	64202	KINZ_T1	2	3	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
6/7/2024 16:18	42903	MIDD_T2	2	26	24	1.4	0.44	-0.96	0.47	0.58	0	0	0	0	0	0
6/7/2024 16:18	42901	MIDD_T2	1	33	32	0.4	0.18	-0.22	0	0	0	0	0	0	0	0
6/7/2024 16:18	42902	MIDD_T2	4	29	25	0.1	0.32	0.22	0	0	0	0	0	0	0	0
6/7/2024 16:18	64204	KINZ_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
6/7/2024 16:29	64201	KINZ_T1	0	0	0	0	0	0	-0.24	-0.27	4	4	0	2100	2100	0
6/7/2024 16:29	64202	KINZ_T1	2	3	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
6/7/2024 16:29	64204	KINZ_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
6/7/2024 16:33	42902	MIDD_T2	26	29	3	0.3	0.3	0	0	0	0	0	0	0	0	0
6/7/2024 16:33	42903	MIDD_T2	11	26	15	0.74	0.44	-0.3	0.58	0.33	0	0	0	0	0	0
6/7/2024 16:33	42901	MIDD_T2	29	27	-2	0.17	0.17	0	0	0	0	0	0	0	0	0
6/7/2024 16:33	48302	ORWI_T2	2	2	0	0.65	0.45	-0.2	0.23	-0.24	0	0	0	0	0	0
6/7/2024 16:34	42901	MIDD_T2	29	27	-2	0.17	0.17	0	0	0	0	0	0	0	0	0
6/7/2024 16:34	42902	MIDD_T2	26	29	3	0.3	0.3	0	-0.47	-0.66	0	0	0	0	0	0
6/7/2024 16:34	42903	MIDD_T2	11	26	15	0.74	0.44	-0.3	0	0	0	0	0	0	0	0
6/7/2024 16:34	63804	HEMP_T1	1	1	0	6	6.2	0.2	-0.88	-1.01	0	0	0	0	0	0
6/7/2024 16:34	44201	POIN_T1	69	61	-8	0.18	0.2	0.02	-4.45	-4.19	4	4	0	4200	4200	0
6/7/2024 16:40	51802	EBEN_T2	2	2	0	1.55	1.15	-0.4	0.43	0.46	1	1	0	900	900	0
6/7/2024 16:40	51804	EBEN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 16:41	49804	UNIV_T1	0	1	1	0	0.1	0.1	0.97	0.96	0	0	0	0	0	0
6/7/2024 16:47	65604	QVIL_T2	0	0	0	0	0	0	0.77	0.76	0	0	0	0	0	0
6/7/2024 16:56	61701	ELIZ_T1	1	1	0	2.1	2.3	0.2	1.06	1.05	0	0	0	0	0	0
6/7/2024 16:59	26401	INOR_T1	1	1	0	8.5	8.1	-0.4	0.6	0.58	0	0	0	0	0	0
6/7/2024 17:00	61701	ELIZ_T1	1	1	0	2.3	2.4	0.1	1.06	1.05	0	0	0	0	0	0
6/7/2024 17:03	61701	ELIZ_T1	1	1	0	2.3	2.4	0.1	1.06	1.05	0	0	0	0	0	0
6/7/2024 17:05	52403	GRPA_T2	1	2	1	1.3	0.75	-0.55	-0.06	-0.1	0	0	0	0	0	0
6/7/2024 17:05	52402	GRPA_T2	3	3	0	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
6/7/2024 17:09	10705	CATA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/7/2024 17:09	10707	CATA_T2	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
6/7/2024 17:10	20401	ASHF_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/7/2024 17:10	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 17:10	20403	ASHF_T2	0	0	0	0	0	0	1.5	1.48	0	0	0	0	0	0
6/7/2024 17:12	56801	BENV_T1	5	3	-2	0.28	0.3	0.02	-0.97	-1.01	2	2	0	1200	1200	0
6/7/2024 17:12	56803	BENV_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/7/2024 17:14	64501	LAVI_T1	0	1	1	0	0.1	0.1	-0.23	-0.24	0	0	0	0	0	0
6/7/2024 17:14	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 17:15	56801	BENV_T1	3	2	-1	0.3	0.15	-0.15	-0.48	-0.5	1	1	0	600	600	0
6/7/2024 17:15	64501	LAVI_T1	1	0	-1	0.1	0	-0.1	-0.23	-0.24	0	0	0	0	0	0
6/7/2024 17:15	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 17:15	40201	BEGA_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/7/2024 17:16	56801	BENV_T1	3	2	-1	0.3	0.15	-0.15	-1.45	-1.51	3	3	0	1800	1800	0
6/7/2024 17:16	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 17:17	56801	BENV_T1	3	2	-1	0.3	0.15	-0.15	-0.48	-0.5	1	1	0	600	600	0
6/7/2024 17:17	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 17:18	52403	GRPA_T2	2	2	0	1.05	0	-1.05	-0.1	-0.13	0	0	0	0	0	0
6/7/2024 17:18	52402	GRPA_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/7/2024 17:20	59101	WALK_T2	0	0	0	0	0	0	1.7	1.85	0	0	0	0	0	0
6/7/2024 17:22	58001	WCAR_T1	4	4	0	0.68	0.9	0.22	0	0	0	0	0	0	0	0
6/7/2024 17:22	58003	WCAR_T1	17	26	9	0.32	0.28	-0.04	0.37	0.34	1	1	0	600	600	0
6/7/2024 17:26	53302	GRAT_T2	6	8	2	0.14	0.33	0.19	0	0	0	0	0	0	0	0
6/7/2024 17:28	21206	ECAR_T2	1	1	0	7.8	7.9	0.1	0.19	0.08	0	0	0	0	0	0
6/7/2024 17:28	21204	ECAR_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/7/2024 17:31	60501	NMAN_T2	3	3	0	3.57	4.17	0.6	0	0	0	0	0	0	0	0
6/7/2024 17:31	52004	LING_T2	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
6/7/2024 17:31	60502	NMAN_T2	0	0	0	0	0	0	0.35	0.3	0	0	0	0	0	0
6/7/2024 17:31	63401	HONY_T1	0	0	0	0	0	0	0.29	0.19	1	1	0	600	600	0
6/7/2024 17:32	63401	HONY_T1	0	0	0	0	0	0	0.29	0.19	1	1	0	600	600	0
6/7/2024 17:36	65205	PRIN_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
6/7/2024 17:40	46001	BERW_T1	1	0	-1	0.8	0	-0.8	1.04	1.01	0	0	0	0	0	0
6/7/2024 17:41	21206	ECAR_T2	1	1	0	7.7	8	0.3	0.08	0.06	0	0	0	0	0	0
6/7/2024 17:41	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 17:42	43705	WILL_T1	2	2	0	1	1	0	0	0	0	0	0	0	0	0
6/7/2024 17:42	21206	ECAR_T2	1	1	0	7.7	8	0.3	0.08	0.06	0	0	0	0	0	0
6/7/2024 17:42	43704	WILL_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
6/7/2024 17:42	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 17:42	43701	WILL_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
6/7/2024 17:42	46001	BERW_T1	1	0	-1	0.8	0	-0.8	1.04	1.01	0	0	0	0	0	0
6/7/2024 17:43	64201	KINZ_T1	1	9	8	0.3	0.57	0.27	0	0	0	0	0	0	0	0
6/7/2024 17:43	64202	KINZ_T1	0	11	11	0	0.37	0.37	0	0	0	0	0	0	0	0
6/7/2024 17:43	64203	KINZ_T1	0	1	1	0	0.1	0.1	0.19	0.16	1	1	0	600	600	0
6/7/2024 17:43	48902	FOSP_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
6/7/2024 17:43	64204	KINZ_T1	2	23	21	0.6	0.37	-0.23	0	0	0	0	0	0	0	0
6/7/2024 17:44	60502	NMAN_T2	0	0	0	0	0	0	0.3	0.24	0	0	0	0	0	0
6/7/2024 17:44	60501	NMAN_T2	3	3	0	3.57	4.17	0.6	0	0	0	0	0	0	0	0
6/7/2024 17:47	64201	KINZ_T1	5	31	26	0.34	0.29	-0.05	0	0	0	0	0	0	0	0
6/7/2024 17:47	64202	KINZ_T1	3	14	11	0.3	0.31	0.01	0	0	0	0	0	0	0	0
6/7/2024 17:47	64204	KINZ_T1	10	25	15	0.23	0.41	0.18	0	0	0	0	0	0	0	0
6/7/2024 17:47	64203	KINZ_T1	0	2	2	0	0.1	0.1	0.19	0.16	1	1	0	600	600	0
6/7/2024 17:52	67602	WARW_T2	0	0	0	0	0	0	0.09	0.07	2	2	0	1500	1500	0
6/7/2024 17:53	61701	ELIZ_T1	1	1	0	2.4	2.6	0.2	1.01	1.07	0	0	0	0	0	0
6/7/2024 17:55	67605	WARW_T1	0	0	0	0	0	0	-0.71	-0.75	0	0	0	0	0	0
6/7/2024 17:56	61701	ELIZ_T1	1	1	0	2.4	2.6	0.2	1.01	1.07	0	0	0	0	0	0
6/7/2024 17:57	67602	WARW_T2	0	0	0	0	0	0	0.09	0.07	2	2	0	1500	1500	0
6/7/2024 17:57	61102	BERK_T5	0	0	0	0	0	0	0.08	0.96	2	1	-1	1200	300	-900
6/7/2024 17:59	61701	ELIZ_T1	1	1	0	2.4	2.6	0.2	1.01	1.07	0	0	0	0	0	0
6/7/2024 18:04	65003	NEFF_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/7/2024 18:04	65001	NEFF_T2	0	0	0	0	0	0	-0.44	-0.47	1	1	0	1200	1200	0
6/7/2024 18:05	67103	SPRI_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
6/7/2024 18:05	66505	SMAN_T2	0	0	0	0	0	0	0.39	0.44	3	3	0	1700	1700	0
6/7/2024 18:08	67505	WEWI_T1	0	0	0	0	0	0	0.43	0.42	1	1	0	900	900	0
6/7/2024 18:09	66202	SISP_T2	0	0	0	0	0	0	-1.84	-1.92	0	0	0	0	0	0
6/7/2024 18:09	66505	SMAN_T2	0	0	0	0	0	0	0.44	0.48	3	2	-1	1700	1500	-200
6/7/2024 18:10	67505	WEWI_T1	0	0	0	0	0	0	0.43	0.42	1	1	0	900	900	0
6/7/2024 18:12	62607	ENGL_T1	0	0	0	0	0	0	-0.49	-0.5	1	1	0	300	300	0
6/7/2024 18:15	26703	HEMI_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	600	600	0
6/7/2024 18:17	64904	MILL_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
6/7/2024 18:18	64903	MILL_T2	1	0	-1	4.5	0	-4.5	0	0	0	0	0	0	0	0
6/7/2024 18:18	64902	MILL_T2	0	0	0	0	0	0	-1.63	-0.46	2	2	0	1800	1800	0
6/7/2024 18:19	52501	PROG_T1	0	0	0	0	0	0	1.84	1.8	2	2	0	600	600	0
6/7/2024 18:19	43202	MVIL_T2	16	6	-10	0.18	0.15	-0.03	-0.62	-0.62	0	0	0	0	0	0
6/7/2024 18:19	50506	MECH_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
6/7/2024 18:19	44201	POIN_T1	61	147	86	0.17	0.26	0.09	-2.08	-2.11	2	2	0	2100	2100	0
6/7/2024 18:19	64101	REFR_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
6/7/2024 18:19	50501	MECH_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/7/2024 18:19	52504	PROG_T1	0	14	14	0	0.11	0.11	0	0	0	0	0	0	0	0
6/7/2024 18:19	50502	MECH_T1	1	1	0	2	2.4	0.4	0	0	0	0	0	0	0	0
6/7/2024 18:20	52504	PROG_T1	0	14	14	0	0.11	0.11	0	0	0	0	0	0	0	0
6/7/2024 18:20	43202	MVIL_T2	16	6	-10	0.18	0.15	-0.03	-0.62	-0.62	0	0	0	0	0	0
6/7/2024 18:20	47401	PENS_T1	0	0	0	0	0	0	1.25	1.24	0	0	0	0	0	0
6/7/2024 18:20	52501	PROG_T1	0	0	0	0	0	0	0.92	0.9	1	1	0	300	300	0
6/7/2024 18:20	47403	PENS_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/7/2024 18:23	67805	WLAN_T1	0	0	0	0	0	0	-0.92	-0.89	0	0	0	0	0	0
6/7/2024 18:24	44701	MUNC_T2	0	1	1	0	0.2	0.2	-1.38	-1.39	0	0	0	0	0	0
6/7/2024 18:24	44702	MUNC_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 18:24	44703	MUNC_T2	1	3	2	0.5	0.53	0.03	0	0	0	0	0	0	0	0
6/7/2024 18:25	10705	CATA_T2	0	0	0	0	0	0	-1.57	-1.59	1	1	0	900	900	0
6/7/2024 18:27	17401	FOHI_T1	0	0	0	0	0	0	-1.58	-1.58	0	0	0	0	0	0
6/7/2024 18:28	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	-0.94	-0.95	1	1	0	600	600	0
6/7/2024 18:28	11904	ETEX_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
6/7/2024 18:29	64203	KINZ_T1	1	0	-1	0.1	0	-0.1	0.74	0.73	0	0	0	0	0	0
6/7/2024 18:29	64201	KINZ_T1	30	8	-22	0.28	0.55	0.27	0	0	0	0	0	0	0	0
6/7/2024 18:29	64204	KINZ_T1	25	21	-4	0.37	0.24	-0.13	0	0	0	0	0	0	0	0
6/7/2024 18:29	64202	KINZ_T1	11	9	-2	0.26	0.17	-0.09	0	0	0	0	0	0	0	0
6/7/2024 18:30	24105	EHAZ_T1	4	4	0	6.1	6.25	0.15	0	0	0	0	0	0	0	0
6/7/2024 18:30	24102	EHAZ_T1	1	1	0	0.5	1.2	0.7	-0.29	0.89	0	0	0	0	0	0
6/7/2024 18:30	11904	ETEX_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
6/7/2024 18:30	54505	ENOL_T2	1	1	0	0.9	0.6	-0.3	-0.94	-0.95	1	1	0	600	600	0
6/7/2024 18:32	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 18:32	16102	BING_T2	6	17	11	0.23	0.33	0.1	-0.42	-0.43	1	1	0	1200	1200	0
6/7/2024 18:33	43202	MVIL_T2	5	29	24	0.16	0.21	0.05	-0.62	-0.63	0	0	0	0	0	0
6/7/2024 18:34	58102	NEKI_T1	1	1	0	1.5	1.8	0.3	-0.21	-0.29	0	0	0	0	0	0
6/7/2024 18:35	24202	PROV_T4	0	0	0	0	0	0	-0.23	-0.24	1	1	0	1200	1200	0
6/7/2024 18:39	65902	SAKR_T2	0	0	0	0	0	0	-0.34	-0.35	1	1	0	300	300	0
6/7/2024 18:39	65901	SAKR_T2	1	1	0	7.4	7.8	0.4	0	0	0	0	0	0	0	0
6/7/2024 18:43	63403	HONY_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
6/7/2024 18:43	63402	HONY_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
6/7/2024 18:44	50201	HARR_T3	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/7/2024 18:44	50107	HARR_T3	1	1	0	7.2	7.3	0.1	0.75	0.74	0	0	0	0	0	0
6/7/2024 18:44	50105	HARR_T3	6	6	0	5.7	5.62	-0.08	0	0	0	0	0	0	0	0
6/7/2024 18:44	50103	HARR_T3	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/7/2024 18:45	63501	HEID_T3X1-2	2	1	-1	0.4	0.4	0	0.07	0.02	1	1	0	900	900	0
6/7/2024 18:46	44502	HAMI_T2	1	1	0	3.2	2.5	-0.7	0	0	0	0	0	0	0	0
6/7/2024 18:46	44501	HAMI_T2	0	0	0	0	0	0	-2.86	-2.91	1	1	0	1200	1200	0
6/7/2024 18:50	50502	MECH_T1	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
6/7/2024 18:50	50501	MECH_T1	1	2	1	0.2	0.4	0.2	-0.14	-0.45	0	0	0	0	0	0
6/7/2024 18:51	24801	VALM_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
6/7/2024 18:54	67502	WEWI_T2	0	6	6	0	0.18	0.18	-1.01	-0.92	1	1	0	900	900	0
6/7/2024 18:55	67801	WLAN_T1	0	0	0	0	0	0	0.28	0.13	0	0	0	0	0	0
6/7/2024 18:55	16006	DORN_T2	0	0	0	0	0	0	-1.24	0.03	1	1	0	1200	1200	0
6/7/2024 18:55	67805	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 18:56	16004	DORN_T1	0	0	0	0	0	0	-1.64	-1.57	2	2	0	2400	2400	0
6/7/2024 18:57	16006	DORN_T2	0	0	0	0	0	0	-1.24	0.03	1	1	0	1200	1200	0
6/7/2024 18:59	63801	HEMP_T1	0	0	0	0	0	0	-0.6	-0.3	1	1	0	900	900	0
6/7/2024 18:59	63804	HEMP_T1	1	1	0	5.4	5	-0.4	0	0	0	0	0	0	0	0
6/7/2024 19:00	52004	LING_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
6/7/2024 19:03	64901	MILL_T1	6	13	7	0.18	0.24	0.06	0	0	0	0	0	0	0	0
6/7/2024 19:03	64904	MILL_T1	0	1	1	0	0.1	0.1	0.22	0.2	0	0	0	0	0	0
6/7/2024 19:11	62102	ELAN_T1	0	0	0	0	0	0	1.37	1.36	0	0	0	0	0	0
6/7/2024 19:12	62102	ELAN_T1	0	0	0	0	0	0	1.37	1.36	0	0	0	0	0	0
6/7/2024 19:14	22905	HARW_T1	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
6/7/2024 19:14	22903	HARW_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/7/2024 19:15	17805	GILB_T2	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
6/7/2024 19:15	66302	MCGO_T2	0	0	0	0	0	0	-1.27	-1.3	1	1	0	600	600	0
6/7/2024 19:17	17805	GILB_T2	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
6/7/2024 19:17	13202	PALM_T2	0	0	0	0	0	0	-2.18	-2.19	4	4	0	3600	3600	0
6/7/2024 19:18	13202	PALM_T2	0	0	0	0	0	0	-2.18	-2.19	4	4	0	3600	3600	0
6/7/2024 19:18	66302	MCGO_T2	0	0	0	0	0	0	-1.27	-1.3	1	1	0	600	600	0
6/7/2024 19:20	12807	MICK_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
6/7/2024 19:20	12802	MICK_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
6/7/2024 19:21	12802	MICK_T1	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
6/7/2024 19:21	12807	MICK_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
6/7/2024 19:22	61701	ELIZ_T1	1	1	0	3.3	3.6	0.3	0.88	0.71	0	0	0	0	0	0
6/7/2024 19:26	46506	LOHA_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/7/2024 19:26	67805	WLAN_T1	1	43	42	0.1	0.12	0.02	0	0	0	0	0	0	0	0
6/7/2024 19:26	67803	WLAN_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
6/7/2024 19:26	46504	LOHA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 19:26	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
6/7/2024 19:28	11403	FARM_T1	0	0	0	0	0	0	0	-0.01	1	1	0	600	600	0
6/7/2024 19:30	64904	MILL_T1	1	1	0	0.1	0.1	0	0.17	0.16	0	0	0	0	0	0
6/7/2024 19:30	64901	MILL_T1	13	17	4	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
6/7/2024 19:31	64902	MILL_T2	0	0	0	0	0	0	-0.29	-0.31	1	1	0	900	900	0
6/7/2024 19:32	63305	GREE_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 19:32	64802	MONE_T2	0	1	1	0	0.2	0.2	0.23	0.21	0	0	0	0	0	0
6/7/2024 19:32	63304	GREE_T1	0	0	0	0	0	0	-1.21	-1.19	0	0	0	0	0	0
6/7/2024 19:32	64801	MONE_T2	1	6	5	0.5	0.18	-0.32	0	0	0	0	0	0	0	0
6/7/2024 19:38	67602	WARW_T2	0	0	0	0	0	0	0.26	0.24	1	1	0	1200	1200	0
6/7/2024 19:38	24802	VALM_T1	0	0	0	0	0	0	3	3.26	0	0	0	0	0	0
6/7/2024 19:41	57101	SPHI_T2	6	6	0	1.13	1.35	0.22	0	0	0	0	0	0	0	0
6/7/2024 19:41	57104	SPHI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/7/2024 19:41	57103	SPHI_T2	0	0	0	0	0	0	0.09	0.72	1	0	-1	600	0	-600
6/7/2024 19:41	57106	SPHI_T2	3	3	0	1.57	1.53	-0.04	0	0	0	0	0	0	0	0
6/7/2024 19:42	62607	ENGL_T1	0	0	0	0	0	0	-0.54	-0.55	1	1	0	300	300	0
6/7/2024 19:50	15204	SFAR_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
6/7/2024 19:53	15204	SFAR_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
6/7/2024 19:58	62102	ELAN_T1	0	0	0	0	0	0	1.3	1.2	0	0	0	0	0	0
6/7/2024 20:00	22903	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 20:00	22904	HARW_T1	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/7/2024 20:03	10105	ALLE_T3	7	4	-3	0.63	0	-0.63	0	0	0	0	0	0	0	0
6/7/2024 20:03	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 20:14	11102	EGYP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/7/2024 20:14	11103	EGYP_T1	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
6/7/2024 20:24	15702	TANN_T2	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
6/7/2024 20:24	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
6/7/2024 20:27	40201	BEGA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/7/2024 20:33	41901	REED_T1	9	9	0	0.22	0.29	0.07	0	0	0	0	0	0	0	0
6/7/2024 20:33	41902	REED_T1	0	0	0	0	0	0	1.25	1.23	0	0	0	0	0	0
6/7/2024 20:35	61102	BERK_T5	0	0	0	0	0	0	0.49	0.49	1	1	0	300	300	0
6/7/2024 20:36	41902	REED_T1	0	0	0	0	0	0	1.25	1.23	0	0	0	0	0	0
6/7/2024 20:36	41901	REED_T1	9	9	0	0.22	0.29	0.07	0	0	0	0	0	0	0	0
6/7/2024 20:37	56501	ROCK_T2	5	19	14	0.38	0.23	-0.15	-0.88	-0.91	0	0	0	0	0	0
6/7/2024 20:40	60803	BUCK_T1	0	0	0	0	0	0	-0.36	-0.37	1	1	0	600	600	0
6/7/2024 20:57	66901	SHIL_T2	0	0	0	0	0	0	-0.84	-0.87	0	0	0	0	0	0
6/7/2024 21:05	12701	MACU_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	1200	1200	0
6/7/2024 21:18	47901	HRDG_T1	0	0	0	0	0	0	1.65	1.59	0	0	0	0	0	0
6/7/2024 21:23	56501	ROCK_T2	2	2	0	0.4	0.15	-0.25	0.34	0.31	0	0	0	0	0	0
6/7/2024 21:30	12604	MACA_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
6/7/2024 21:30	12601	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 21:44	61303	EARL_T1	0	0	0	0	0	0	0.2	0.13	0	0	0	0	0	0
6/7/2024 21:49	16103	BING_T2	0	0	0	0	0	0	-1.29	-1.31	1	1	0	900	900	0
6/7/2024 21:49	16102	BING_T2	12	16	4	0.18	0.31	0.13	0	0	0	0	0	0	0	0
6/7/2024 21:59	24902	WHHA_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
6/7/2024 22:09	64801	MONE_T2	1	5	4	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
6/7/2024 22:09	64802	MONE_T2	0	4	4	0	0.18	0.18	0.38	0.37	0	0	0	0	0	0
6/7/2024 22:11	25601	ARRO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:11	25603	ARRO_T1	22	38	16	0.12	0.22	0.1	-0.08	-0.08	0	0	0	0	0	0
6/7/2024 22:15	61701	ELIZ_T1	1	1	0	3.7	4.1	0.4	0.67	0.54	0	0	0	0	0	0
6/7/2024 22:15	60803	BUCK_T1	10	15	5	0.19	0.23	0.04	0	0	0	0	0	0	0	0
6/7/2024 22:15	44703	MUNC_T2	3	3	0	1.3	0.97	-0.33	0	0	0	0	0	0	0	0
6/7/2024 22:15	44701	MUNC_T2	52	118	66	0.13	0.16	0.03	-1.53	-1.54	0	0	0	0	0	0
6/7/2024 22:15	44702	MUNC_T2	16	19	3	0.19	0.2	0.01	0	0	0	0	0	0	0	0
6/7/2024 22:15	60801	BUCK_T1	10	20	10	0.11	0.18	0.07	-0.07	-0.08	0	0	0	0	0	0
6/7/2024 22:17	21204	ECAR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/7/2024 22:17	21206	ECAR_T2	1	1	0	7.2	7.2	0	1.33	1.3	0	0	0	0	0	0
6/7/2024 22:21	59101	WALK_T2	0	0	0	0	0	0	1.16	1.26	0	0	0	0	0	0
6/7/2024 22:23	65601	QVIL_T2	6	12	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/7/2024 22:23	23202	HIRU_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
6/7/2024 22:23	65604	QVIL_T2	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
6/7/2024 22:24	67502	WEWI_T2	50	43	-7	0.17	0.18	0.01	0	0	0	0	0	0	0	0
6/7/2024 22:24	67503	WEWI_T2	0	0	0	0	0	0	0.03	-0.02	0	0	0	0	0	0
6/7/2024 22:24	17002	RIRO_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
6/7/2024 22:25	50201	HARR_T3	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
6/7/2024 22:25	66703	STRA_T1	103	4	-99	0.32	0.23	-0.09	-0.14	-0.15	0	0	0	0	0	0
6/7/2024 22:25	54203	PENN_T1	18	18	0	0.77	0.76	-0.01	0	0	0	0	0	0	0	0
6/7/2024 22:25	60201	ATGL_T2	0	0	0	0	0	0	0.66	0.57	0	0	0	0	0	0
6/7/2024 22:25	50103	HARR_T3	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
6/7/2024 22:25	64202	KINZ_T1	32	34	2	0.25	0.28	0.03	0	0	0	0	0	0	0	0
6/7/2024 22:25	64204	KINZ_T1	28	31	3	0.32	0.36	0.04	0	0	0	0	0	0	0	0
6/7/2024 22:25	64201	KINZ_T1	8	10	2	0.65	0.54	-0.11	0	0	0	0	0	0	0	0
6/7/2024 22:25	64203	KINZ_T1	3	11	8	0.1	0.12	0.02	0.37	0.33	0	0	0	0	0	0
6/7/2024 22:25	50107	HARR_T3	1	1	0	6.8	6.7	-0.1	0.66	0.66	0	0	0	0	0	0
6/7/2024 22:25	50105	HARR_T3	6	6	0	5.53	5.62	0.09	0	0	0	0	0	0	0	0
6/7/2024 22:25	67605	WARW_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 22:25	54201	PENN_T1	9	11	2	0.87	0.74	-0.13	-0.89	-0.88	0	0	0	0	0	0
6/7/2024 22:25	63501	HEID_TBK1-2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
6/7/2024 22:25	67603	WARW_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
6/7/2024 22:26	15603	NSTR_T2	9	0	-9	0.18	0	-0.18	-0.55	-0.56	0	0	0	0	0	0
6/7/2024 22:26	64204	KINZ_T1	28	31	3	0.32	0.36	0.04	0	0	0	0	0	0	0	0
6/7/2024 22:26	44201	POIN_T1	63	127	64	0.16	0.22	0.06	-2.33	-2.26	2	2	0	2100	2100	0
6/7/2024 22:26	64203	KINZ_T1	3	11	8	0.1	0.12	0.02	0	0	0	0	0	0	0	0
6/7/2024 22:26	64201	KINZ_T1	8	10	2	0.65	0.54	-0.11	0.53	0.5	1	1	0	300	300	0
6/7/2024 22:26	15703	TANN_T2	5	1	-4	1	4.8	3.8	0	0	0	0	0	0	0	0
6/7/2024 22:26	60201	ATGL_T2	0	0	0	0	0	0	0.66	0.57	0	0	0	0	0	0
6/7/2024 22:26	15602	NSTR_T2	44	0	-44	0.11	0	-0.11	0	0	0	0	0	0	0	0
6/7/2024 22:26	15702	TANN_T2	9	0	-9	0.1	0	-0.1	-0.34	-0.36	0	0	0	0	0	0
6/7/2024 22:26	15601	NSTR_T2	25	3	-22	0.22	0.5	0.28	0	0	0	0	0	0	0	0
6/7/2024 22:26	64202	KINZ_T1	32	34	2	0.25	0.28	0.03	0	0	0	0	0	0	0	0
6/7/2024 22:27	20603	GRWO_T2	5	0	-5	0.12	0	-0.12	0.41	0.4	0	0	0	0	0	0
6/7/2024 22:27	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/7/2024 22:27	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:27	26703	HEMI_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	600	600	0
6/7/2024 22:27	17805	GILB_T2	4	0	-4	0.13	0	-0.13	0.22	0.21	0	0	0	0	0	0
6/7/2024 22:27	57006	WHHI_T2	0	0	0	0	0	0	0.69	0.63	0	0	0	0	0	0
6/7/2024 22:29	57104	SPHI_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/7/2024 22:29	64501	LAVI_T1	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
6/7/2024 22:29	60201	ATGL_T2	0	0	0	0	0	0	0.66	0.57	0	0	0	0	0	0
6/7/2024 22:29	43401	BENT_T1	3	1	-2	0.57	0	-0.57	0	0	0	0	0	0	0	0
6/7/2024 22:29	60801	BUCK_T1	10	20	10	0.11	0.18	0.07	-0.08	-0.09	0	0	0	0	0	0
6/7/2024 22:29	63305	GREE_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
6/7/2024 22:29	60803	BUCK_T1	10	15	5	0.19	0.23	0.04	0	0	0	0	0	0	0	0
6/7/2024 22:29	67605	WARW_T1	0	2	2	0	0.2	0.2	-1.26	-1.12	0	0	0	0	0	0
6/7/2024 22:29	16006	DORN_T2	0	0	0	0	0	0	0.93	0.91	0	0	0	0	0	0
6/7/2024 22:29	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
6/7/2024 22:29	57103	SPHI_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
6/7/2024 22:29	57101	SPHI_T2	6	6	0	0.8	1.27	0.47	0	0	0	0	0	0	0	0
6/7/2024 22:29	63306	GREE_T1	0	0	0	0	0	0	-2.74	-2.77	2	2	0	1800	1800	0
6/7/2024 22:29	42902	MIDD_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
6/7/2024 22:29	57106	SPHI_T2	3	3	0	0.87	1.2	0.33	0	0	0	0	0	0	0	0
6/7/2024 22:29	17805	GILB_T2	4	0	-4	0.13	0	-0.13	0.22	0.21	0	0	0	0	0	0
6/7/2024 22:30	43302	WATS_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/7/2024 22:30	62101	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:30	48302	ORWI_T2	2	2	0	0.8	0.9	0.1	0.03	0.02	0	0	0	0	0	0
6/7/2024 22:30	62102	ELAN_T1	0	0	0	0	0	0	1.04	1.02	0	0	0	0	0	0
6/7/2024 22:30	16302	ALPA_T2	0	0	0	0	0	0	0.8	0.78	0	0	0	0	0	0
6/7/2024 22:30	45901	AUBU_T1	0	0	0	0	0	0	1.43	1.37	0	0	0	0	0	0
6/7/2024 22:30	41202	KENM_T2	1	0	-1	0.7	0	-0.7	0.74	0.76	0	0	0	0	0	0
6/7/2024 22:30	12803	MICK_T1	0	1	1	0	0.2	0.2	0.77	0.76	0	0	0	0	0	0
6/7/2024 22:30	67602	WARW_T2	0	0	0	0	0	0	0.14	0.13	1	1	0	1200	1200	0
6/7/2024 22:30	64203	KINZ_T1	11	0	-11	0.12	0	-0.12	0	0	0	0	0	0	0	0
6/7/2024 22:30	63401	HONY_T1	0	0	0	0	0	0	0.6	0.64	0	0	0	0	0	0
6/7/2024 22:30	25603	ARRO_T1	38	37	-1	0.21	0.21	0	0	0	0	0	0	0	0	0
6/7/2024 22:30	17802	GILB_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
6/7/2024 22:30	11904	ETEX_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
6/7/2024 22:30	51003	NHAR_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
6/7/2024 22:30	51101	CARL_T1	1	1	0	5.5	5.1	-0.4	0	0	0	0	0	0	0	0
6/7/2024 22:30	67605	WARW_T1	2	15	13	0.15	0.34	0.19	-1.26	-1.12	0	0	0	0	0	0
6/7/2024 22:30	64201	KINZ_T1	10	7	-3	0.54	0.36	-0.18	0.53	0.5	1	1	0	300	300	0
6/7/2024 22:30	65502	MOJO_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
6/7/2024 22:30	65004	NEFF_T2	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
6/7/2024 22:30	43301	WATS_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
6/7/2024 22:30	64501	LAVI_T1	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
6/7/2024 22:30	63404	HONY_T1	0	22	22	0	0.18	0.18	0	0	0	0	0	0	0	0
6/7/2024 22:30	59301	MCAL_T1	2	2	0	0.65	1.3	0.65	-1.33	-1.34	0	0	0	0	0	0
6/7/2024 22:30	25402	LAHA_T2	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
6/7/2024 22:30	64202	KINZ_T1	34	1	-33	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
6/7/2024 22:30	52102	MEIS_T1	83	124	41	0.14	0.18	0.04	0	0	0	0	0	0	0	0
6/7/2024 22:30	61301	EARL_T1	0	0	0	0	0	0	-1.42	-1.43	2	2	0	1800	1800	0
6/7/2024 22:30	52004	LING_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
6/7/2024 22:30	63602	LETO_T1	0	0	0	0	0	0	-0.87	-0.89	1	1	0	600	600	0
6/7/2024 22:30	51102	CARL_T1	0	30	30	0	0.15	0.15	0	0	0	0	0	0	0	0
6/7/2024 22:30	41201	KENM_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/7/2024 22:30	47001	HUGH_T2	0	0	0	0	0	0	-0.4	-0.17	0	0	0	0	0	0
6/7/2024 22:30	57006	WHHI_T2	0	0	0	0	0	0	0.69	0.63	0	0	0	0	0	0
6/7/2024 22:30	25601	ARRO_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
6/7/2024 22:30	59302	MCAL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 22:30	51004	NHAR_T1	1	5	4	6.4	1.38	-5.02	-0.48	-0.49	0	0	0	0	0	0
6/7/2024 22:30	10801	CHHI_T1	0	0	0	0	0	0	-0.72	-0.67	1	1	0	900	900	0
6/7/2024 22:30	51002	NHAR_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/7/2024 22:30	52006	LING_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
6/7/2024 22:30	51108	CARL_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
6/7/2024 22:30	52101	MEIS_T1	2	2	0	1.2	1.45	0.25	0	0	0	0	0	0	0	0
6/7/2024 22:30	64204	KINZ_T1	31	3	-28	0.36	0.4	0.04	0	0	0	0	0	0	0	0
6/7/2024 22:31	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:31	43302	WATS_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
6/7/2024 22:31	66504	SMAN_T2	0	0	0	0	0	0	-0.55	-0.48	0	0	0	0	0	0
6/7/2024 22:31	45902	AUBU_T1	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
6/7/2024 22:31	67605	WARW_T1	2	15	13	0.15	0.34	0.19	-1.26	-1.12	0	0	0	0	0	0
6/7/2024 22:31	43302	WATS_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/7/2024 22:31	42902	MIDD_T2	0	0	0	0	0	0	-1.31	-1.3	0	0	0	0	0	0
6/7/2024 22:31	64904	MILL_T1	19	0	-19	0.19	0	-0.19	-0.12	-0.19	0	0	0	0	0	0
6/7/2024 22:31	10705	CATA_T2	0	0	0	0	0	0	-0.67	-0.69	1	1	0	900	900	0
6/7/2024 22:31	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:31	56801	BENV_T1	7	8	1	0.9	1.53	0.63	-0.38	-0.41	1	1	0	600	600	0
6/7/2024 22:31	67502	WEWI_T2	43	0	-43	0.18	0	-0.18	-0.17	-0.28	0	0	0	0	0	0
6/7/2024 22:31	23203	HIRU_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
6/7/2024 22:31	40302	TAMA_T3	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
6/7/2024 22:31	13503	MCMI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
6/7/2024 22:31	40802	EXCH_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
6/7/2024 22:31	65001	NEFF_T2	0	0	0	0	0	0	-1.02	-1.04	1	1	0	1200	1200	0
6/7/2024 22:31	55003	NEWP_T2	5	8	3	0.18	0.34	0.16	-0.77	-0.78	1	1	0	600	600	0
6/7/2024 22:31	64201	KINZ_T1	10	7	-3	0.54	0.36	-0.18	0.53	0.5	1	1	0	300	300	0
6/7/2024 22:31	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 22:31	64203	KINZ_T1	11	0	-11	0.12	0	-0.12	0	0	0	0	0	0	0	0
6/7/2024 22:31	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 22:31	64901	MILL_T1	64	0	-64	0.34	0	-0.34	0	0	0	0	0	0	0	0
6/7/2024 22:31	64204	KINZ_T1	31	3	-28	0.36	0.4	0.04	0	0	0	0	0	0	0	0
6/7/2024 22:31	59101	WALK_T2	0	0	0	0	0	0	1.26	0.91	0	0	0	0	0	0
6/7/2024 22:31	64202	KINZ_T1	34	1	-33	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
6/7/2024 22:32	16006	DORN_T2	0	0	0	0	0	0	0.93	0.91	0	0	0	0	0	0
6/7/2024 22:32	60501	NMAN_T2	3	8	5	4.9	5	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:32	67303	WYOM_T2	0	0	0	0	0	0	-0.69	-0.74	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/7/2024 22:32	13503	MCMI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
6/7/2024 22:32	60801	BUCK_T1	20	0	-20	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/7/2024 22:32	56802	BENV_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
6/7/2024 22:32	45501	DERR_T2	0	1	1	0	0.1	0.1	0.53	0.43	1	1	0	600	600	0
6/7/2024 22:32	10805	CHHI_T2	1	1	0	7.4	7.4	0	-1.09	-1.08	1	1	0	600	600	0
6/7/2024 22:32	13202	PALM_T2	0	0	0	0	0	0	-1.71	-1.73	3	3	0	3000	3000	0
6/7/2024 22:32	11904	ETEX_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
6/7/2024 22:32	21206	ECAR_T2	1	1	0	7.2	7.3	0.1	1.3	1.27	0	0	0	0	0	0
6/7/2024 22:32	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 22:32	58402	MORO_T1	0	0	0	0	0	0	-0.33	-0.35	2	2	0	1500	1500	0
6/7/2024 22:32	60502	NMAN_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
6/7/2024 22:32	67103	SPRI_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
6/7/2024 22:32	67605	WARW_T1	2	15	13	0.15	0.34	0.19	0	0	0	0	0	0	0	0
6/7/2024 22:32	16401	MOPO_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
6/7/2024 22:32	67604	WARW_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
6/7/2024 22:32	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:32	45902	AUBU_T1	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
6/7/2024 22:32	47001	HUGH_T2	0	0	0	0	0	0	-0.4	-0.17	0	0	0	0	0	0
6/7/2024 22:32	60803	BUCK_T1	15	0	-15	0.23	0	-0.23	-0.41	-0.41	1	1	0	600	600	0
6/7/2024 22:32	42902	MIDD_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
6/7/2024 22:33	51101	CARL_T1	1	1	0	5.5	5.1	-0.4	0	0	0	0	0	0	0	0
6/7/2024 22:33	20403	ASHF_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
6/7/2024 22:33	66503	SMAN_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
6/7/2024 22:33	51107	CARL_T1	0	0	0	0	0	0	-0.09	-0.14	0	0	0	0	0	0
6/7/2024 22:33	51102	CARL_T1	0	30	30	0	0.15	0.15	0	0	0	0	0	0	0	0
6/7/2024 22:33	17805	GILB_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
6/7/2024 22:33	15204	SFAR_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
6/7/2024 22:34	52402	GRPA_T2	4	4	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
6/7/2024 22:34	53903	HALI_T2	2	2	0	0.6	0.85	0.25	-0.16	-0.17	0	0	0	0	0	0
6/7/2024 22:34	10707	CATA_T2	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
6/7/2024 22:34	54201	PENN_T1	5	17	12	1.14	0.72	-0.42	-1.77	-1.77	0	0	0	0	0	0
6/7/2024 22:34	62607	ENGL_T1	0	0	0	0	0	0	-0.76	-0.77	1	1	0	300	300	0
6/7/2024 22:34	43103	SMIL_T2	4	14	10	0.5	0.31	-0.19	0	0	0	0	0	0	0	0
6/7/2024 22:34	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:34	52401	GRPA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:34	63402	HONY_T2	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
6/7/2024 22:34	52404	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:34	54203	PENN_T1	18	18	0	0.48	0.92	0.44	0	0	0	0	0	0	0	0
6/7/2024 22:34	45902	AUBU_T1	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
6/7/2024 22:34	46001	BEHI_T1	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
6/7/2024 22:34	67502	WEWI_T2	43	0	-43	0.18	0	-0.18	-0.17	-0.28	0	0	0	0	0	0
6/7/2024 22:34	45501	DERR_T2	0	1	1	0	0.1	0.1	0.53	0.43	1	1	0	600	600	0
6/7/2024 22:34	53902	HALI_T2	1	1	0	4.6	5	0.4	0	0	0	0	0	0	0	0
6/7/2024 22:34	44301	BEAV_T2	0	0	0	0	0	0	-0.29	-0.34	1	1	0	600	600	0
6/7/2024 22:34	26401	INOR_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
6/7/2024 22:34	52403	GRPA_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
6/7/2024 22:34	63403	HONY_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
6/7/2024 22:34	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:34	43102	SMIL_T2	4	6	2	0.13	0.12	-0.01	-0.24	-0.25	0	0	0	0	0	0
6/7/2024 22:34	63305	GREE_T1	0	0	0	0	0	0	-1.09	-1.1	0	0	0	0	0	0
6/7/2024 22:35	53902	HALI_T2	1	1	0	4.6	5	0.4	0	0	0	0	0	0	0	0
6/7/2024 22:35	24602	VARD_T2	850	931	81	1.15	1.22	0.07	-1	-1.01	0	0	0	0	0	0
6/7/2024 22:35	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
6/7/2024 22:35	46506	LOHA_T1	3	1	-2	0.4	0.3	-0.1	-0.4	-0.41	0	0	0	0	0	0
6/7/2024 22:35	67802	WLAN_T1	11	0	-11	0.16	0	-0.16	0	0	0	0	0	0	0	0
6/7/2024 22:35	64801	MONE_T2	5	0	-5	0.24	0	-0.24	0	0	0	0	0	0	0	0
6/7/2024 22:35	44201	POIN_T1	121	175	54	0.22	0.23	0.01	-2.33	-2.26	2	2	0	2100	2100	0
6/7/2024 22:35	43401	BENT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/7/2024 22:35	63602	LETO_T1	0	0	0	0	0	0	-0.87	-0.89	1	1	0	600	600	0
6/7/2024 22:35	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:35	53903	HALI_T2	2	2	0	0.6	0.85	0.25	0	0	0	0	0	0	0	0
6/7/2024 22:35	42903	MIDD_T2	0	2	2	0	0.2	0.2	-0.17	-0.2	0	0	0	0	0	0
6/7/2024 22:35	46602	LACR_T1	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
6/7/2024 22:35	45002	LIME_2	1	1	0	5.2	5.8	0.6	0	0	0	0	0	0	0	0
6/7/2024 22:35	56802	BENV_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
6/7/2024 22:35	24102	EHAZ_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/7/2024 22:35	67604	WARW_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
6/7/2024 22:35	66303	MCGO_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/7/2024 22:35	64802	MONE_T2	4	0	-4	0.18	0	-0.18	0.37	0.36	0	0	0	0	0	0
6/7/2024 22:35	45001	LIME_2	27	18	-9	0.31	0.24	-0.07	0	0	0	0	0	0	0	0
6/7/2024 22:35	45501	DERR_T2	0	1	1	0	0.1	0.1	0.53	0.43	1	1	0	600	600	0
6/7/2024 22:35	45902	AUBU_T1	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
6/7/2024 22:35	24103	EHAZ_T1	0	0	0	0	0	0	-0.57	-0.54	0	0	0	0	0	0
6/7/2024 22:35	22905	HARW_T1	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
6/7/2024 22:35	24105	EHAZ_T1	4	4	0	6.08	5.83	-0.25	0	0	0	0	0	0	0	0
6/7/2024 22:35	46101	MACI_T2	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
6/7/2024 22:35	66302	MCGO_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
6/7/2024 22:35	67801	WLAN_T1	19	0	-19	0.11	0	-0.11	0.5	0.34	0	0	0	0	0	0
6/7/2024 22:35	52006	LING_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
6/7/2024 22:35	12701	MACU_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
6/7/2024 22:35	53901	HALI_T2	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
6/7/2024 22:35	64902	MILL_T2	0	0	0	0	0	0	-0.83	-0.84	2	2	0	1800	1800	0
6/7/2024 22:35	67805	WLAN_T1	465	1	-464	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
6/7/2024 22:35	10805	CHHI_T2	1	1	0	7.4	7.4	0	-1.09	-1.08	1	1	0	600	600	0
6/7/2024 22:35	67605	WARW_T1	2	15	13	0.15	0.34	0.19	1.26	1.12	0	0	0	0	0	0
6/7/2024 22:35	16302	ALPA_T2	0	0	0	0	0	0	1.6	1.57	0	0	0	0	0	0
6/7/2024 22:35	24603	VARD_T2	106	213	107	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
6/7/2024 22:35	67505	WEWI_T1	0	0	0	0	0	0	0.03	0.02	1	1	0	900	900	0
6/7/2024 22:35	67803	WLAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/7/2024 22:35	45003	LIME_2	2	2	0	2.6	2.45	-0.15	0.23	0.37	0	0	0	0	0	0
6/7/2024 22:35	47901	HRDG_T1	0	0	0	0	0	0	1.6	1.53	0	0	0	0	0	0
6/7/2024 22:35	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/7/2024 22:35	67804	WLAN_T1	5	0	-5	0.12	0	-0.12	0	0	0	0	0	0	0	0
6/7/2024 22:35	56801	BENV_T1	7	8	1	0.9	1.53	0.63	-0.77	-0.81	2	2	0	1200	1200	0
6/7/2024 22:35	52004	LING_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
6/7/2024 22:35	46503	LOHA_T1	2	0	-2	0.1	0	-0.1	-0.61	-0.61	0	0	0	0	0	0
6/7/2024 22:35	48902	FOSP_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
6/7/2024 22:36	52002	LING_T2	0	0	0	0	0	0	0.33	0.16	0	0	0	0	0	0
6/7/2024 22:36	12604	MACA_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
6/7/2024 22:36	56802	BENV_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
6/7/2024 22:36	64101	REFR_T1	0	0	0	0	0	0	0.14	0.09	0	0	0	0	0	0
6/7/2024 22:36	56501	ROCK_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
6/7/2024 22:36	43302	WATS_T2	3	0	-3	0.23	0	-0.23	-0.16	-0.16	1	1	0	1200	1200	0
6/7/2024 22:36	59101	WALK_T2	0	0	0	0	0	0	1.26	0.91	0	0	0	0	0	0
6/7/2024 22:36	56801	BENV_T1	7	8	1	0.9	1.53	0.63	-1.91	-2.03	5	5	0	3000	3000	0
6/7/2024 22:36	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 22:36	56504	ROCK_T2	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
6/7/2024 22:36	16004	DORN_T1	0	0	0	0	0	0	-0.84	-0.89	1	1	0	1200	1200	0
6/7/2024 22:36	45902	AUBU_T1	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
6/7/2024 22:36	51102	CARL_T1	0	30	30	0	0.15	0.15	0	0	0	0	0	0	0	0
6/7/2024 22:36	52401	GRPA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:36	63404	HONY_T1	0	22	22	0	0.18	0.18	0	0	0	0	0	0	0	0
6/7/2024 22:36	14203	EALL_T1	0	0	0	0	0	0	-0.01	-0.19	1	1	0	1200	1200	0
6/7/2024 22:36	20403	ASHF_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
6/7/2024 22:36	52402	GRPA_T2	4	4	0	0.35	0.65	0.3	-0.8	-0.82	0	0	0	0	0	0
6/7/2024 22:36	67605	WARW_T1	2	15	13	0.15	0.34	0.19	-1.12	-1.18	0	0	0	0	0	0
6/7/2024 22:36	13503	MCMI_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/7/2024 22:36	61506	EPET_T2	0	0	0	0	0	0	-1.12	-1.12	1	1	0	900	900	0
6/7/2024 22:36	24201	PROV_T3	1	1	0	6.1	7.2	1.1	1.32	1.33	1	1	0	1200	1200	0
6/7/2024 22:36	60501	NMAN_T2	3	8	5	4.9	5	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:36	46206	DANV_T2	0	0	0	0	0	0	4.02	4	2	2	0	2400	2400	0
6/7/2024 22:36	51101	CARL_T1	1	1	0	5.5	5.1	-0.4	-1.35	-1.37	1	1	0	600	600	0
6/7/2024 22:36	61501	EPET_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
6/7/2024 22:36	63401	HONY_T1	0	0	0	0	0	0	1.29	1.37	0	0	0	0	0	0
6/7/2024 22:36	24603	VARD_T2	106	213	107	0.36	0.34	-0.02	-0.13	-0.14	0	0	0	0	0	0
6/7/2024 22:36	54203	PENN_T1	18	18	0	0.48	0.92	0.44	1.76	1.73	0	0	0	0	0	0
6/7/2024 22:36	60502	NMAN_T2	0	0	0	0	0	0	-0.29	-0.33	0	0	0	0	0	0
6/7/2024 22:36	67602	WARW_T2	0	0	0	0	0	0	0.13	0.12	1	1	0	1200	1200	0
6/7/2024 22:36	43102	SMIL_T2	4	6	2	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
6/7/2024 22:36	52501	PROG_T1	0	0	0	0	0	0	0.6	0.57	1	1	0	300	300	0
6/7/2024 22:36	67203	TEHI_T1	0	0	0	0	0	0	1.54	1.53	1	1	0	900	900	0
6/7/2024 22:36	44301	BEAV_T2	0	0	0	0	0	0	-0.68	-0.78	2	2	0	1200	1200	0
6/7/2024 22:36	10102	ALLE_T2	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
6/7/2024 22:36	48302	ORWI_T2	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:36	24602	VARD_T2	850	931	81	1.15	1.22	0.07	0	0	0	0	0	0	0	0
6/7/2024 22:36	14804	TREI_T2	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
6/7/2024 22:36	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 22:36	52404	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:36	24204	PROV_T3	1	1	0	5.6	6.3	0.7	0	0	0	0	0	0	0	0
6/7/2024 22:36	55002	NEWP_T1	0	3	3	0	0.1	0.1	-0.4	-0.41	0	0	0	0	0	0
6/7/2024 22:36	67505	WEWI_T1	0	0	0	0	0	0	0.02	0	1	1	0	900	900	0
6/7/2024 22:36	42902	MIDD_T2	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
6/7/2024 22:36	52006	LING_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
6/7/2024 22:36	53302	GRAT_T2	18	27	9	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
6/7/2024 22:36	43202	MVIL_T2	73	96	23	0.63	1.02	0.39	-0.69	-0.69	0	0	0	0	0	0
6/7/2024 22:36	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:36	25503	MADI_T1	201	167	-34	0.74	0.64	-0.1	-0.93	-0.94	0	0	0	0	0	0
6/7/2024 22:36	43103	SMIL_T2	4	14	10	0.5	0.31	-0.19	-0.72	-0.73	0	0	0	0	0	0
6/7/2024 22:36	54201	PENN_T1	5	17	12	1.14	0.72	-0.42	0	0	0	0	0	0	0	0
6/7/2024 22:36	52004	LING_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
6/7/2024 22:37	63404	HONY_T1	0	22	22	0	0.18	0.18	0	0	0	0	0	0	0	0
6/7/2024 22:37	44502	HAMI_T2	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
6/7/2024 22:37	12803	MICK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 22:37	47401	PENS_T1	0	0	0	0	0	0	1	0.9	0	0	0	0	0	0
6/7/2024 22:37	65001	NEFF_T2	0	0	0	0	0	0	-1.04	-1.06	1	1	0	1200	1200	0
6/7/2024 22:37	58003	WCAR_T1	1	30	29	1.6	0.22	-1.38	0.68	0.68	0	0	0	0	0	0
6/7/2024 22:37	55002	NEWP_T1	0	3	3	0	0.1	0.1	-0.21	-0.21	0	0	0	0	0	0
6/7/2024 22:37	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
6/7/2024 22:37	63401	HONY_T1	0	0	0	0	0	0	0.64	0.68	0	0	0	0	0	0
6/7/2024 22:37	59201	THOM_T1	0	7	7	0	0.14	0.14	0	0	0	0	0	0	0	0
6/7/2024 22:37	12801	MICK_T1	0	0	0	0	0	0	-0.94	-0.96	1	1	0	600	600	0
6/7/2024 22:37	60605	NCOL_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
6/7/2024 22:37	56501	ROCK_T2	1	1	0	1	0	-1	0.34	0.28	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/7/2024 22:37	42201	SHEN_T2	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
6/7/2024 22:37	43202	MVIL_T2	73	96	23	0.63	1.02	0.39	-1.37	-1.38	0	0	0	0	0	0
6/7/2024 22:37	64101	REFR_T1	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
6/7/2024 22:37	26402	INOR_T1	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
6/7/2024 22:37	24202	PROV_T4	0	0	0	0	0	0	-0.44	-0.46	1	1	0	1200	1200	0
6/7/2024 22:37	42903	MIDD_T2	0	2	2	0	0.2	0.2	-0.2	-0.28	0	0	0	0	0	0
6/7/2024 22:37	56801	BENV_T1	7	8	1	0.9	1.53	0.63	-0.81	-0.86	2	2	0	1200	1200	0
6/7/2024 22:37	67502	WEWI_T2	43	0	-43	0.18	0	-0.18	-0.28	-0.37	0	0	0	0	0	0
6/7/2024 22:37	42902	MIDD_T2	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
6/7/2024 22:37	58001	WCAR_T1	4	5	1	0.68	0.92	0.24	0	0	0	0	0	0	0	0
6/7/2024 22:37	66202	SISP_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
6/7/2024 22:37	45003	LIME_2	2	2	0	2.6	2.45	-0.15	0.37	0.29	0	0	0	0	0	0
6/7/2024 22:37	44501	HAMI_T2	0	0	0	0	0	0	-2.94	-2.95	1	1	0	1200	1200	0
6/7/2024 22:37	13202	PALM_T2	0	0	0	0	0	0	-1.73	-1.83	3	3	0	3000	3000	0
6/7/2024 22:37	22904	HARW_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
6/7/2024 22:37	59202	THOM_T1	0	25	25	0	0.17	0.17	0	0	0	0	0	0	0	0
6/7/2024 22:37	44301	BEAV_T2	0	0	0	0	0	0	-0.34	-0.39	1	1	0	600	600	0
6/7/2024 22:37	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 22:37	54201	PENN_T1	5	17	12	1.14	0.72	-0.42	0	0	0	0	0	0	0	0
6/7/2024 22:37	45002	LIME_2	1	1	0	5.2	5.8	0.6	0	0	0	0	0	0	0	0
6/7/2024 22:37	45001	LIME_2	27	18	-9	0.31	0.24	-0.07	0	0	0	0	0	0	0	0
6/7/2024 22:37	45402	WBLO_T2	33	42	9	0.2	0.3	0.1	-0.75	-0.77	0	0	0	0	0	0
6/7/2024 22:37	54203	PENN_T1	18	18	0	0.48	0.92	0.44	0.86	0.85	0	0	0	0	0	0
6/7/2024 22:37	66504	SMAN_T2	0	0	0	0	0	0	-0.24	-0.34	0	0	0	0	0	0
6/7/2024 22:37	45501	DERR_T2	0	1	1	0	0.1	0.1	0.43	0.44	1	1	0	600	600	0
6/7/2024 22:37	24802	VALM_T1	0	0	0	0	0	0	2.98	2.92	0	0	0	0	0	0
6/7/2024 22:38	56802	BENV_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
6/7/2024 22:38	56801	BENV_T1	7	8	1	0.9	1.53	0.63	-0.41	-0.43	1	1	0	600	600	0
6/7/2024 22:38	64101	REFR_T1	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
6/7/2024 22:38	15703	TANN_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
6/7/2024 22:38	40701	FFLD_T1	71	31	-40	0.55	0.19	-0.36	0	0	0	0	0	0	0	0
6/7/2024 22:38	58003	WCAR_T1	1	30	29	1.6	0.22	-1.38	0.68	0.68	0	0	0	0	0	0
6/7/2024 22:38	52101	MEIS_T1	2	2	0	1.2	1.45	0.25	0	0	0	0	0	0	0	0
6/7/2024 22:38	47001	HUGH_T2	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
6/7/2024 22:38	66505	SMAN_T2	0	0	0	0	0	0	0.27	0.3	1	1	0	900	900	0
6/7/2024 22:38	65205	PRIN_T1	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
6/7/2024 22:38	40703	FFLD_T1	4	1	-3	0.7	0.2	-0.5	0.37	0.36	0	0	0	0	0	0
6/7/2024 22:38	15702	TANN_T2	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
6/7/2024 22:38	40702	FFLD_T1	189	58	-131	0.44	0.18	-0.26	0	0	0	0	0	0	0	0
6/7/2024 22:38	56501	ROCK_T2	1	1	0	1	-1	0.17	0.14	0	0	0	0	0	0	0
6/7/2024 22:38	52102	MEIS_T1	83	124	41	0.14	0.18	0.04	0	0	0	0	0	0	0	0
6/7/2024 22:38	58001	WCAR_T1	4	5	1	0.68	0.92	0.24	0	0	0	0	0	0	0	0
6/7/2024 22:39	17401	FOHI_T1	0	0	0	0	0	0	-0.76	-0.77	0	0	0	0	0	0
6/7/2024 22:39	14601	SWHI_T1	0	0	0	0	0	0	-0.14	-0.08	0	0	0	0	0	0
6/7/2024 22:39	64101	REFR_T1	0	0	0	0	0	0	0.14	0.09	0	0	0	0	0	0
6/7/2024 22:39	56803	BENV_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
6/7/2024 22:39	12802	MICK_T1	0	0	0	0	0	0	-1.15	-1.17	0	0	0	0	0	0
6/7/2024 22:39	21206	ECAR_T2	1	1	0	7.2	7.3	0.1	1.27	1.25	0	0	0	0	0	0
6/7/2024 22:39	23203	HIRU_T2	0	0	0	0	0	0	-0.05	0.01	0	0	0	0	0	0
6/7/2024 22:39	12803	MICK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 22:39	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:39	44504	HAMI_T2	0	0	0	0	0	0	-1.19	-1.21	0	0	0	0	0	0
6/7/2024 22:39	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
6/7/2024 22:39	56801	BENV_T1	7	8	1	0.9	1.53	0.63	0	0	0	0	0	0	0	0
6/7/2024 22:39	67106	SPRI_T2	0	0	0	0	0	0	-1.89	-1.9	2	2	0	1500	1500	0
6/7/2024 22:39	52501	PROG_T1	0	0	0	0	0	0	0.57	0.55	1	1	0	300	300	0
6/7/2024 22:39	44502	HAMI_T2	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
6/7/2024 22:39	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:40	67805	WLAN_T1	465	1	-464	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
6/7/2024 22:40	67802	WLAN_T1	11	0	-11	0.16	0	-0.16	0	0	0	0	0	0	0	0
6/7/2024 22:40	60801	BUCK_T1	20	0	-20	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/7/2024 22:40	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:40	60902	DONG_T2	0	0	0	0	0	0	0.85	0.82	0	0	0	0	0	0
6/7/2024 22:40	40903	JESH_T1	110	0	-110	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/7/2024 22:40	45602	WOOL_T1	14	0	-14	0.21	0	-0.21	1.33	1.31	0	0	0	0	0	0
6/7/2024 22:40	44301	BEAV_T2	0	0	0	0	0	0	-0.68	-0.78	2	2	0	1200	1200	0
6/7/2024 22:40	67801	WLAN_T1	19	0	-19	0.11	0	-0.11	0	0	0	0	0	0	0	0
6/7/2024 22:40	40902	JESH_T1	193	0	-193	0.22	0	-0.22	-0.7	-0.71	0	0	0	0	0	0
6/7/2024 22:40	60803	BUCK_T1	15	0	-15	0.23	0	-0.23	-0.82	-0.84	2	2	0	1200	1200	0
6/7/2024 22:40	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 22:40	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:40	25603	ARRO_T1	38	37	-1	0.21	0.21	0	-0.08	-0.08	0	0	0	0	0	0
6/7/2024 22:40	45502	DERR_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
6/7/2024 22:40	58401	MORO_T1	0	0	0	0	0	0	-0.99	-1	1	1	0	600	600	0
6/7/2024 22:40	63305	GREE_T1	0	0	0	0	0	0	-1.1	-1.17	0	0	0	0	0	0
6/7/2024 22:40	56501	ROCK_T2	1	1	0	1	0	-1	0.17	0.14	0	0	0	0	0	0
6/7/2024 22:40	67804	WLAN_T1	5	0	-5	0.12	0	-0.12	0	0	0	0	0	0	0	0
6/7/2024 22:40	67803	WLAN_T1	2	0	-2	0.1	0	-0.1	-0.62	-0.64	0	0	0	0	0	0
6/7/2024 22:40	45501	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:40	67502	WEWI_T2	43	0	-43	0.18	0	-0.18	-0.28	-0.37	0	0	0	0	0	0
6/7/2024 22:40	66502	SMAN_T2	0	0	0	0	0	0	0.06	0.11	0	0	0	0	0	0
6/7/2024 22:40	13302	ORVI_T2	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
6/7/2024 22:40	54505	ENOL_T2	1	1	0	0.2	0.6	0.4	-1.13	-1.14	1	1	0	600	600	0
6/7/2024 22:40	59101	WALK_T2	0	0	0	0	0	0	2.73	3.52	0	0	0	0	0	0
6/7/2024 22:40	40901	JESH_T1	27	0	-27	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/7/2024 22:41	40903	JESH_T1	110	0	-110	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/7/2024 22:41	44502	HAMI_T2	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
6/7/2024 22:41	40101	HUNT_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
6/7/2024 22:41	13503	MCMI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
6/7/2024 22:41	45501	DERR_T2	0	1	1	0	0.1	0.1	0.43	0.44	1	1	0	600	600	0
6/7/2024 22:41	44301	BEAV_T2	0	0	0	0	0	0	-0.34	-0.39	1	1	0	600	600	0
6/7/2024 22:41	42903	MIDD_T2	0	2	2	0	0.2	0.2	-0.2	-0.28	0	0	0	0	0	0
6/7/2024 22:41	52401	GRPA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:41	58102	NEKI_T1	0	1	1	0	0.5	0.5	0.32	0.39	0	0	0	0	0	0
6/7/2024 22:41	57004	WHHI_T2	0	0	0	0	0	0	-0.55	-0.58	0	0	0	0	0	0
6/7/2024 22:41	43304	WATS_T2	0	0	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
6/7/2024 22:41	52404	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:41	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/7/2024 22:41	50501	MECH_T1	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
6/7/2024 22:41	46801	HEPB_T2	3	0	-3	0.73	0	-0.73	0	0	0	0	0	0	0	0
6/7/2024 22:41	46001	BERW_T1	0	0	0	0	0	0	1.31	1.28	0	0	0	0	0	0
6/7/2024 22:41	12601	MAGA_T1	0	0	0	0	0	0	0.88	0.86	0	0	0	0	0	0
6/7/2024 22:41	40901	JESH_T1	27	0	-27	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/7/2024 22:41	41902	REED_T1	0	0	0	0	0	0	1.01	0.99	0	0	0	0	0	0
6/7/2024 22:41	10805	CHHI_T2	1	1	0	7.4	7.4	0	-1.08	-1.11	1	1	0	600	600	0
6/7/2024 22:41	43401	BENT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/7/2024 22:41	40902	JESH_T1	193	0	-193	0.22	0	-0.22	-0.7	-0.71	0	0	0	0	0	0
6/7/2024 22:41	50502	MECH_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
6/7/2024 22:41	43301	WATS_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
6/7/2024 22:41	43202	MVIL_T2	73	96	23	0.63	1.02	0.39	0	0	0	0	0	0	0	0
6/7/2024 22:41	43302	WATS_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/7/2024 22:41	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:41	45902	AUBU_T1	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
6/7/2024 22:41	24201	PROV_T3	1	1	0	6.1	7.2	1.1	-1.33	-1.34	1	1	0	1200	1200	0
6/7/2024 22:41	10801	CHHI_T1	0	0	0	0	0	0	-0.67	-0.7	1	1	0	900	900	0
6/7/2024 22:41	43201	MVIL_T2	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
6/7/2024 22:41	45601	WOOL_T1	0	0	0	0	0	0	1.25	1.17	0	0	0	0	0	0
6/7/2024 22:41	44505	HAMI_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
6/7/2024 22:41	46206	DANV_T2	0	0	0	0	0	0	2.01	2	1	1	0	1200	1200	0
6/7/2024 22:41	56801	BENV_T1	7	8	1	0.9	1.53	0.63	-1.22	-1.29	3	3	0	1800	1800	0
6/7/2024 22:41	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:41	64101	REFR_T1	0	0	0	0	0	0	0.14	0.09	0	0	0	0	0	0
6/7/2024 22:41	52501	PROG_T1	0	0	0	0	0	0	0.57	0.55	1	1	0	300	300	0
6/7/2024 22:41	60201	ATGL_T2	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
6/7/2024 22:41	63304	GREE_T1	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
6/7/2024 22:41	16302	ALPA_T2	0	0	0	0	0	0	0.78	0.77	0	0	0	0	0	0
6/7/2024 22:41	10105	ALLE_T3	3	2	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/7/2024 22:41	50506	MECH_T1	1	0	-1	3	0	-3	0.15	0.09	0	0	0	0	0	0
6/7/2024 22:41	66504	SMAN_T2	0	0	0	0	0	0	-0.24	-0.34	0	0	0	0	0	0
6/7/2024 22:41	55002	NEWP_T1	0	3	3	0	0.1	0.1	-0.21	-0.21	0	0	0	0	0	0
6/7/2024 22:41	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
6/7/2024 22:41	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:41	52403	GRPA_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
6/7/2024 22:41	53601	DALM_T2	1	1	0	1.3	1.5	0.2	-0.15	-0.14	0	0	0	0	0	0
6/7/2024 22:41	66505	SMAN_T2	0	0	0	0	0	0	0.27	0.3	1	1	0	900	900	0
6/7/2024 22:41	24204	PROV_T3	1	1	0	5.6	6.3	0.7	0	0	0	0	0	0	0	0
6/7/2024 22:41	46803	HEPB_T2	1	0	-1	0.2	0	-0.2	0.56	0.55	0	0	0	0	0	0
6/7/2024 22:41	42902	MIDD_T2	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
6/7/2024 22:41	63804	HEMP_T1	1	1	0	5.5	5.1	-0.4	-0.16	-0.17	0	0	0	0	0	0
6/7/2024 22:41	45602	WOOL_T1	14	0	-14	0.21	0	-0.21	0	0	0	0	0	0	0	0
6/7/2024 22:41	24801	VALM_T1	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
6/7/2024 22:41	56802	BENV_T2	0	0	0	0	0	0	-1.15	-1.18	0	0	0	0	0	0
6/7/2024 22:41	52402	GRPA_T2	4	4	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
6/7/2024 22:41	45802	HEGI_T2	42	47	5	0.83	1.24	0.41	0	0	0	0	0	0	0	0
6/7/2024 22:41	55101	WERT_T1	0	0	0	0	0	0	-1.29	-1.31	2	2	0	1500	1500	0
6/7/2024 22:41	15204	SFAR_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
6/7/2024 22:41	59101	WALK_T2	0	0	0	0	0	0	0.91	1.17	0	0	0	0	0	0
6/7/2024 22:42	67201	TEHI_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
6/7/2024 22:42	58001	WCAR_T1	4	5	1	0.68	0.92	0.24	0	0	0	0	0	0	0	0
6/7/2024 22:42	45802	HEGI_T2	42	47	5	0.83	1.24	0.41	0	0	0	0	0	0	0	0
6/7/2024 22:42	52006	LING_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
6/7/2024 22:42	54202	PENN_T2	1	0	-1	5.8	0	-5.8	0	0	0	0	0	0	0	0
6/7/2024 22:42	10801	CHHI_T1	0	0	0	0	0	0	-0.67	-0.7	1	1	0	900	900	0
6/7/2024 22:42	52404	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:42	67602	WARW_T2	0	0	0	0	0	0	0.13	0.12	1	1	0	1200	1200	0
6/7/2024 22:42	52402	GRPA_T2	4	4	0	0.35	0.65	0.3	-0.82	-0.78	0	0	0	0	0	0
6/7/2024 22:42	62102	ELAN_T1	0	0	0	0	0	0	1.02	0.98	0	0	0	0	0	0
6/7/2024 22:42	52002	LING_T2	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
6/7/2024 22:42	52101	MEIS_T1	2	2	0	1.2	1.45	0.25	0	0	0	0	0	0	0	0
6/7/2024 22:42	43102	SMIL_T2	4	6	2	0.13	0.12	-0.01	-0.25	-0.26	0	0	0	0	0	0
6/7/2024 22:42	54206	PENN_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
6/7/2024 22:42	44601	SALE_T2	1	1	0	0.7	1	0.3	-0.11	-0.12	0	0	0	0	0	0
6/7/2024 22:42	44201	POIN_T1	121	175	54	0.22	0.23	0.01	-2.26	-2.28	2	2	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/7/2024 22:42	58003	WCAR_T1	1	30	29	1.6	0.22	-1.38	1.37	1.35	0	0	0	0	0	0
6/7/2024 22:42	56801	BENV_T1	7	8	1	0.9	1.53	0.63	-0.81	-0.86	2	2	0	1200	1200	0
6/7/2024 22:42	64101	REFR_T1	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
6/7/2024 22:42	52401	GRPA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:42	66302	MCGO_T2	0	0	0	0	0	0	-0.66	-0.84	0	0	0	0	0	0
6/7/2024 22:42	46001	BERW_T1	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
6/7/2024 22:42	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:42	53903	HALI_T2	2	2	0	0.6	0.85	0.25	-0.33	-0.35	0	0	0	0	0	0
6/7/2024 22:42	62101	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:42	52102	MEIS_T1	83	124	41	0.14	0.18	0.04	0	0	0	0	0	0	0	0
6/7/2024 22:42	53902	HALI_T2	1	1	0	4.6	5	0.4	0	0	0	0	0	0	0	0
6/7/2024 22:42	54504	ENOL_T2	0	0	0	0	0	0	-1.01	-1.02	1	1	0	600	600	0
6/7/2024 22:42	54505	ENOL_T2	1	1	0	0.2	0.6	0.4	-1.13	-1.14	1	1	0	600	600	0
6/7/2024 22:42	43103	SMIL_T2	4	14	10	0.5	0.31	-0.19	0	0	0	0	0	0	0	0
6/7/2024 22:42	66303	MCGO_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/7/2024 22:43	11403	FARM_T1	0	0	0	0	0	0	-0.22	-0.23	1	1	0	600	600	0
6/7/2024 22:43	45602	WOOL_T1	14	0	-14	0.21	0	-0.21	0.67	0.65	0	0	0	0	0	0
6/7/2024 22:43	52403	GRPA_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
6/7/2024 22:43	52402	GRPA_T2	4	4	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
6/7/2024 22:43	52102	MEIS_T1	83	124	41	0.14	0.18	0.04	0	0	0	0	0	0	0	0
6/7/2024 22:43	24102	EHAZ_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/7/2024 22:43	24105	EHAZ_T1	4	4	0	6.08	5.83	-0.25	0	0	0	0	0	0	0	0
6/7/2024 22:43	24104	EHAZ_T1	0	0	0	0	0	0	-0.95	-0.96	1	1	0	1200	1200	0
6/7/2024 22:43	58003	WCAR_T1	1	30	29	1.6	0.22	-1.38	0.68	0.68	0	0	0	0	0	0
6/7/2024 22:43	52101	MEIS_T1	2	2	0	1.2	1.45	0.25	0	0	0	0	0	0	0	0
6/7/2024 22:43	20603	GRWO_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
6/7/2024 22:43	52401	GRPA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:43	52404	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:43	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
6/7/2024 22:43	58001	WCAR_T1	4	5	1	0.68	0.92	0.24	0	0	0	0	0	0	0	0
6/7/2024 22:43	67605	WARW_T1	2	15	13	0.15	0.34	0.19	-1.12	-1.18	0	0	0	0	0	0
6/7/2024 22:43	45702	LIND_T2	1	0	-1	0.9	0	-0.9	-0.93	-0.93	0	0	0	0	0	0
6/7/2024 22:43	56801	BENV_T1	7	8	1	0.9	1.53	0.63	-0.41	-0.43	1	1	0	600	600	0
6/7/2024 22:44	63306	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:44	47802	MOCA_T2	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
6/7/2024 22:44	46101	MACI_T2	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
6/7/2024 22:44	52102	MEIS_T1	83	124	41	0.14	0.18	0.04	0	0	0	0	0	0	0	0
6/7/2024 22:44	58402	MORO_T1	0	0	0	0	0	0	-0.35	-0.35	2	2	0	1500	1500	0
6/7/2024 22:44	63801	HEMP_T1	0	0	0	0	0	0	-0.98	-1.08	1	1	0	900	900	0
6/7/2024 22:44	63804	HEMP_T1	1	1	0	5.5	5.1	-0.4	0	0	0	0	0	0	0	0
6/7/2024 22:44	52101	MEIS_T1	2	2	0	1.2	1.45	0.25	0	0	0	0	0	0	0	0
6/7/2024 22:44	64101	REFR_T1	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
6/7/2024 22:45	45001	LIME_2	1	24	23	0.1	0.27	0.17	0	0	0	0	0	0	0	0
6/7/2024 22:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:45	46206	DANV_T2	0	0	0	0	0	0	2.01	2	1	1	0	1200	1200	0
6/7/2024 22:45	63302	GREE_T1	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
6/7/2024 22:45	56801	BENV_T1	8	9	1	1.21	1.47	0.26	-0.41	-0.43	1	1	0	600	600	0
6/7/2024 22:45	45003	LIME_2	2	2	0	2.25	2.7	0.45	0.37	0.29	0	0	0	0	0	0
6/7/2024 22:45	20601	GRWO_T2	0	3	3	0	0.1	0.1	-0.25	-0.27	0	0	0	0	0	0
6/7/2024 22:45	45002	LIME_2	1	1	0	5.1	5.9	0.8	0	0	0	0	0	0	0	0
6/7/2024 22:45	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:45	64101	REFR_T1	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
6/7/2024 22:45	58401	MORO_T1	0	0	0	0	0	0	-0.99	-1	1	1	0	600	600	0
6/7/2024 22:46	44505	HAMI_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
6/7/2024 22:46	66503	SMAN_T2	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
6/7/2024 22:46	65802	RTWN_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
6/7/2024 22:46	52006	LING_T2	2	2	0	0.15	0.6	0.45	0	0	0	0	0	0	0	0
6/7/2024 22:46	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:46	58003	WCAR_T1	2	64	62	0.95	0.3	-0.65	0.68	0.68	0	0	0	0	0	0
6/7/2024 22:46	43701	WILL_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
6/7/2024 22:46	46803	HEPB_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
6/7/2024 22:46	12802	MICK_T1	0	0	0	0	0	0	-1.15	-1.17	0	0	0	0	0	0
6/7/2024 22:46	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:46	46801	HEPB_T2	0	1	1	0	0	0	0.67	0.65	0	0	0	0	0	0
6/7/2024 22:46	58001	WCAR_T1	4	7	3	1.05	0.99	-0.06	0	0	0	0	0	0	0	0
6/7/2024 22:46	52404	GRPA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:46	52402	GRPA_T2	4	4	0	0.48	0.7	0.22	0	0	0	0	0	0	0	0
6/7/2024 22:46	62101	ELAN_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/7/2024 22:46	52002	LING_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/7/2024 22:46	52401	GRPA_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/7/2024 22:46	49803	UNIV_T1	0	0	0	0	0	0	-1.11	-1.15	0	0	0	0	0	0
6/7/2024 22:46	42201	SHEN_T2	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
6/7/2024 22:46	43704	WILL_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
6/7/2024 22:46	44502	HAMI_T2	1	1	0	3.2	3.5	0.3	0	0	0	0	0	0	0	0
6/7/2024 22:46	49804	UNIV_T1	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/7/2024 22:46	13501	MCMI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:46	45501	DERR_T2	1	1	0	0.1	0.5	0.4	0.43	0.44	1	1	0	600	600	0
6/7/2024 22:46	65901	SAKR_T2	1	1	0	8.9	9.1	0.2	0	0	0	0	0	0	0	0
6/7/2024 22:46	61301	EARL_T1	0	0	0	0	0	0	-1.43	-1.44	2	2	0	1800	1800	0
6/7/2024 22:46	61803	EELI_T2	0	0	0	0	0	0	0.12	0.08	1	1	0	600	600	0
6/7/2024 22:46	67805	WLAN_T1	1	0	-1	0.1	0	-0.1	-1.32	-1.35	0	0	0	0	0	0
6/7/2024 22:46	12803	MICK_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/7/2024 22:46	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:46	56801	BENV_T1	8	9	1	1.21	1.47	0.26	-0.81	-0.86	2	2	0	1200	1200	0
6/7/2024 22:46	40802	EXCH_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
6/7/2024 22:46	52403	GRPA_T2	0	2	2	0	0.1	0.1	0.18	0.16	0	0	0	0	0	0
6/7/2024 22:46	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:46	65902	SAKR_T2	0	0	0	0	0	0	-0.62	-0.63	1	1	0	300	300	0
6/7/2024 22:46	47802	MOCA_T2	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
6/7/2024 22:46	52004	LING_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
6/7/2024 22:46	62607	ENGL_T1	0	0	0	0	0	0	-0.77	-0.78	1	1	0	300	300	0
6/7/2024 22:46	44301	BEAV_T2	0	0	0	0	0	0	-0.34	-0.39	1	1	0	600	600	0
6/7/2024 22:46	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:46	62102	ELAN_T1	0	0	0	0	0	0	1.02	0.98	0	0	0	0	0	0
6/7/2024 22:46	12807	MICK_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/7/2024 22:47	52101	MEIS_T1	2	2	0	1.05	1.6	0.55	0	0	0	0	0	0	0	0
6/7/2024 22:47	53903	HALI_T2	2	3	1	0.75	1.15	0.4	0	0	0	0	0	0	0	0
6/7/2024 22:47	45902	AUBU_T1	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
6/7/2024 22:47	52006	LING_T2	2	2	0	0.15	0.6	0.45	0	0	0	0	0	0	0	0
6/7/2024 22:47	52002	LING_T2	0	1	1	0	0.6	0.6	0.16	0.09	0	0	0	0	0	0
6/7/2024 22:47	56501	ROCK_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/7/2024 22:47	52401	GRPA_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/7/2024 22:47	52402	GRPA_T2	4	4	0	0.48	0.7	0.22	0	0	0	0	0	0	0	0
6/7/2024 22:47	40101	HUNT_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
6/7/2024 22:47	56504	ROCK_T2	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
6/7/2024 22:47	46102	MACI_T1	0	0	0	0	0	0	0.88	0.86	0	0	0	0	0	0
6/7/2024 22:47	56801	BENV_T1	8	9	1	1.21	1.47	0.26	-1.22	-1.29	3	3	0	1800	1800	0
6/7/2024 22:47	46206	DANV_T2	0	0	0	0	0	0	8.04	8	4	4	0	4800	4800	0
6/7/2024 22:47	53902	HALI_T2	1	1	0	4.7	5.1	0.4	-0.18	-0.18	0	0	0	0	0	0
6/7/2024 22:47	52102	MEIS_T1	110	165	55	0.15	0.29	0.14	0	0	0	0	0	0	0	0
6/7/2024 22:47	23001	SAJO_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
6/7/2024 22:47	65502	MOJO_T2	0	0	0	0	0	0	-0.87	-0.9	0	0	0	0	0	0
6/7/2024 22:47	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:47	40802	EXCH_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
6/7/2024 22:47	52403	GRPA_T2	0	2	2	0	0.1	0.1	0.18	0.16	0	0	0	0	0	0
6/7/2024 22:47	46004	BERW_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
6/7/2024 22:47	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:47	43802	SWIL_T1	0	0	0	0	0	0	-0.15	-0.15	1	1	0	600	600	0
6/7/2024 22:47	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:47	46001	BERW_T1	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
6/7/2024 22:47	10801	CHHI_T1	0	0	0	0	0	0	-0.67	-0.7	1	1	0	900	900	0
6/7/2024 22:47	42201	SHEN_T2	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
6/7/2024 22:47	43801	SWIL_T1	2	2	0	3.25	3.2	-0.05	0	0	0	0	0	0	0	0
6/7/2024 22:47	52404	GRPA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:47	44201	POIN_T1	95	253	158	0.18	0.28	0.1	-2.26	-2.28	2	2	0	2100	2100	0
6/7/2024 22:47	63804	HEMP_T1	1	1	0	5.3	5.1	-0.2	-0.16	-0.17	0	0	0	0	0	0
6/7/2024 22:47	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
6/7/2024 22:48	64201	KINZ_T1	5	7	2	0.4	0.34	-0.06	0	0	0	0	0	0	0	0
6/7/2024 22:48	64203	KINZ_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
6/7/2024 22:48	42201	SHEN_T2	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
6/7/2024 22:48	64204	KINZ_T1	3	3	0	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
6/7/2024 22:48	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/7/2024 22:48	67605	WARW_T1	2	15	13	0.2	0.34	0.14	-1.12	-1.18	0	0	0	0	0	0
6/7/2024 22:49	52006	LING_T2	2	2	0	0.15	0.6	0.45	0	0	0	0	0	0	0	0
6/7/2024 22:49	52002	LING_T2	0	1	1	0	0.6	0.6	0.08	0.04	0	0	0	0	0	0
6/7/2024 22:49	49804	UNIV_T1	2	2	0	0.1	0.15	0.05	0.62	0.59	0	0	0	0	0	0
6/7/2024 22:51	64101	REFR_T1	0	0	0	0	0	0	0.05	0.24	0	0	0	0	0	0
6/7/2024 22:52	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/7/2024 22:56	14204	EALL_T2	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
6/7/2024 22:59	52006	LING_T2	2	2	0	0.15	0.6	0.45	0	0	0	0	0	0	0	0
6/7/2024 22:59	52002	LING_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/7/2024 22:59	51402	LYKE_T1	0	6	6	0	0.12	0.12	-1.62	-0.97	1	0	-1	600	0	-600
6/7/2024 22:59	52004	LING_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
6/7/2024 23:06	61701	ELIZ_T1	1	1	0	4.9	5	0.1	0.17	0.32	0	0	0	0	0	0
6/7/2024 23:19	20401	ASHF_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
6/8/2024 0:03	56501	ROCK_T2	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/8/2024 0:03	56504	ROCK_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
6/8/2024 0:37	50501	MECH_T1	4	4	0	0.93	1.13	0.2	-1.3	-1.24	0	0	0	0	0	0
6/8/2024 0:37	50502	MECH_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
6/8/2024 0:39	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
6/8/2024 0:40	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
6/8/2024 1:01	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
6/8/2024 1:02	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
6/8/2024 1:23	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
6/8/2024 1:24	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
6/8/2024 2:08	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
6/8/2024 2:09	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
6/8/2024 5:06	65901	SAKR_T2	1	1	0	9.6	9.5	-0.1	-1.45	-1.44	1	1	0	900	900	0
6/8/2024 5:10	67603	WARW_T1	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
6/8/2024 5:10	67605	WARW_T1	27	25	-2	0.59	0.61	0.02	0	0	0	0	0	0	0	0
6/8/2024 6:24	15001	BLMO_T1	4	1	-3	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
6/8/2024 6:38	16301	ALPA_T1	1	1	0	0.2	0.1	-0.1	-0.49	-0.48	0	0	0	0	0	0
6/8/2024 6:40	14204	EALL_T2	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/8/2024 6:49	13303	ORVI_T1	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
6/8/2024 6:52	20401	ASHF_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
6/8/2024 7:05	15203	SFAR_T2	0	0	0	0	0	0	-1.25	-1.23	0	0	0	0	0	0
6/8/2024 7:16	52102	MEIS_T1	149	25	-124	0.21	0.16	-0.05	0	0	0	0	0	0	0	0
6/8/2024 7:16	52101	MEIS_T1	2	2	0	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
6/8/2024 7:18	24201	PROV_T3	1	1	0	6.7	6.9	0.2	-0.04	-0.03	0	0	0	0	0	0
6/8/2024 7:18	24204	PROV_T3	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 7:20	58006	WCAR_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
6/8/2024 7:22	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
6/8/2024 7:22	56802	BENV_T2	1	1	0	0.4	0.2	-0.2	-1.45	-1.42	0	0	0	0	0	0
6/8/2024 7:23	67803	WLAN_T1	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
6/8/2024 7:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 7:28	45501	DERR_T2	1	1	0	0.7	0.4	-0.3	0.07	0.12	1	1	0	600	600	0
6/8/2024 7:28	56802	BENV_T2	1	1	0	0.4	0.2	-0.2	-1.45	-1.42	0	0	0	0	0	0
6/8/2024 7:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 7:30	43202	MVIL_T2	2	2	0	0.15	0.1	-0.05	-0.73	-0.72	0	0	0	0	0	0
6/8/2024 7:31	12006	HATF_T1	0	0	0	0	0	0	0.59	0.62	0	0	0	0	0	0
6/8/2024 7:33	56501	ROCK_T2	1	1	0	0.1	0.1	0	0.04	0.05	0	0	0	0	0	0
6/8/2024 7:35	42204	SHEN_T2	0	0	0	0	0	0	-0.75	-0.77	1	1	0	1200	1200	0
6/8/2024 7:36	56501	ROCK_T2	1	1	0	0.1	0.1	0	0.04	0.05	0	0	0	0	0	0
6/8/2024 7:37	15203	SFAR_T2	0	0	0	0	0	0	-1.19	-1.17	0	0	0	0	0	0
6/8/2024 7:37	45901	AUBU_T1	0	0	0	0	0	0	1.04	1.04	0	0	0	0	0	0
6/8/2024 7:50	59101	WALK_T2	0	0	0	0	0	0	0.97	1.4	0	0	0	0	0	0
6/8/2024 7:52	59101	WALK_T2	0	0	0	0	0	0	1.4	1.33	0	0	0	0	0	0
6/8/2024 7:52	46004	BERW_T2	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
6/8/2024 7:53	59101	WALK_T2	0	0	0	0	0	0	1.4	1.33	0	0	0	0	0	0
6/8/2024 7:56	20403	ASHF_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
6/8/2024 8:08	67605	WARW_T1	3	2	-1	0.23	0.15	-0.08	-1.02	-1.03	0	0	0	0	0	0
6/8/2024 8:18	58705	ROSE_T2	5	5	0	1.34	1.42	0.08	0	0	0	0	0	0	0	0
6/8/2024 8:18	58706	ROSE_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
6/8/2024 8:18	52102	MEIS_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/8/2024 8:18	58702	ROSE_T2	0	0	0	0	0	0	-1.56	-1.51	0	0	0	0	0	0
6/8/2024 8:19	52102	MEIS_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/8/2024 8:19	58706	ROSE_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
6/8/2024 8:19	64101	REFR_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
6/8/2024 8:19	58705	ROSE_T2	5	5	0	1.34	1.42	0.08	0	0	0	0	0	0	0	0
6/8/2024 8:19	58702	ROSE_T2	0	0	0	0	0	0	-1.56	-1.51	0	0	0	0	0	0
6/8/2024 8:20	64101	REFR_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
6/8/2024 8:21	64101	REFR_T1	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
6/8/2024 8:22	20403	ASHF_T2	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
6/8/2024 8:22	64101	REFR_T1	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
6/8/2024 8:23	64101	REFR_T1	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
6/8/2024 8:24	45501	DERR_T2	0	0	0	0	0	0	0.26	0.19	1	1	0	600	600	0
6/8/2024 8:25	21203	ECAR_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
6/8/2024 8:30	13501	MCMI_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
6/8/2024 8:46	47001	HUGH_T2	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
6/8/2024 8:47	24204	PROV_T3	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
6/8/2024 8:47	24201	PROV_T3	1	1	0	6.8	6.2	-0.6	-1.28	-1.28	1	1	0	1200	1200	0
6/8/2024 8:47	47001	HUGH_T2	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
6/8/2024 8:51	24201	PROV_T3	1	1	0	6.8	6.2	-0.6	-1.28	-1.28	1	1	0	1200	1200	0
6/8/2024 8:51	24204	PROV_T3	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
6/8/2024 8:51	67605	WARW_T1	1	2	1	0.1	0.1	0	-1.01	-1	0	0	0	0	0	0
6/8/2024 8:52	45902	AUBU_T1	1	3	2	1	0.67	-0.33	-0.37	-0.37	0	0	0	0	0	0
6/8/2024 8:53	56801	BENV_T1	9	17	8	0.91	0.72	-0.19	-0.76	-0.74	2	2	0	1200	1200	0
6/8/2024 8:53	45902	AUBU_T1	1	3	2	1	0.67	-0.33	-0.37	-0.37	0	0	0	0	0	0
6/8/2024 8:54	56801	BENV_T1	9	17	8	0.91	0.72	-0.19	-0.38	-0.37	1	1	0	600	600	0
6/8/2024 8:54	45501	DERR_T2	0	0	0	0	0	0	0.26	0.27	1	1	0	600	600	0
6/8/2024 8:56	56801	BENV_T1	9	17	8	0.91	0.72	-0.19	-1.14	-1.11	3	3	0	1800	1800	0
6/8/2024 8:56	45501	DERR_T2	0	0	0	0	0	0	0.26	0.27	1	1	0	600	600	0
6/8/2024 8:56	45902	AUBU_T1	1	3	2	1	0.67	-0.33	-0.37	-0.37	0	0	0	0	0	0
6/8/2024 8:57	56803	BENV_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
6/8/2024 8:57	46203	DANV_T2	0	0	0	0	0	0	-2	-1.99	0	0	0	0	0	0
6/8/2024 8:57	56801	BENV_T1	9	17	8	0.91	0.72	-0.19	0	0	0	0	0	0	0	0
6/8/2024 8:57	46206	DANV_T2	1	3	2	1.1	1.2	0.1	0	0	0	0	0	0	0	0
6/8/2024 8:58	46206	DANV_T2	1	3	2	1.1	1.2	0.1	0	0	0	0	0	0	0	0
6/8/2024 8:58	10805	CHHI_T2	1	1	0	8.9	8.2	-0.7	-0.8	-1.35	0	1	1	0	600	600
6/8/2024 8:58	45501	DERR_T2	0	0	0	0	0	0	0.26	0.27	1	1	0	600	600	0
6/8/2024 8:58	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
6/8/2024 8:58	56801	BENV_T1	9	17	8	0.91	0.72	-0.19	-0.76	-0.74	2	2	0	1200	1200	0
6/8/2024 8:58	46203	DANV_T2	0	0	0	0	0	0	-4	-3.99	0	0	0	0	0	0
6/8/2024 9:02	13503	MCMI_T2	0	150	150	0	0.21	0.21	-0.01	-0.93	0	0	0	0	0	0
6/8/2024 9:02	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
6/8/2024 9:03	13503	MCMI_T2	0	150	150	0	0.21	0.21	-0.01	-0.93	0	0	0	0	0	0
6/8/2024 9:04	59003	MIFF_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
6/8/2024 9:04	59002	MIFF_T1	6	5	-1	0.37	0.44	0.07	0	0	0	0	0	0	0	0
6/8/2024 9:04	59001	MIFF_T1	3	3	0	0.47	0.77	0.3	0	0	0	0	0	0	0	0
6/8/2024 9:05	51505	SWAT_T2	0	0	0	0	0	0	0.52	0.6	0	0	0	0	0	0
6/8/2024 9:05	13503	MCMI_T2	0	150	150	0	0.21	0.21	-0.01	-0.93	0	0	0	0	0	0
6/8/2024 9:06	66504	SMAN_T2	0	0	0	0	0	0	-1.57	-1.5	1	1	0	1200	1200	0
6/8/2024 9:06	66502	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/8/2024 9:07	66504	SMAN_T2	0	0	0	0	0	0	-3.13	-2.99	2	2	0	2400	2400	0
6/8/2024 9:07	66502	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/8/2024 9:08	56801	BENV_T1	9	23	14	0.78	0.91	0.13	-0.74	-1.84	2	4	2	1200	2400	1200
6/8/2024 9:08	45902	AUBU_T1	1	3	2	1.1	0.73	-0.37	-0.37	-0.36	0	0	0	0	0	0
6/8/2024 9:09	56801	BENV_T1	9	23	14	0.78	0.91	0.13	-1.11	-2.77	3	6	3	1800	3600	1800
6/8/2024 9:10	45902	AUBU_T1	1	3	2	1.1	0.73	-0.37	-0.37	-0.36	0	0	0	0	0	0
6/8/2024 9:12	56801	BENV_T1	9	23	14	0.78	0.91	0.13	-1.11	-2.77	3	6	3	1800	3600	1800
6/8/2024 9:14	63304	GREE_T1	0	0	0	0	0	0	-1.53	-1.51	0	0	0	0	0	0
6/8/2024 9:15	63304	GREE_T1	0	0	0	0	0	0	-1.53	-1.51	0	0	0	0	0	0
6/8/2024 9:16	26401	INOR_T1	1	1	0	8.8	8	-0.8	0.41	0.41	0	0	0	0	0	0
6/8/2024 9:19	41902	REED_T1	1	4	3	0.2	0.15	-0.05	0.92	0.92	0	0	0	0	0	0
6/8/2024 9:21	41902	REED_T1	1	4	3	0.2	0.15	-0.05	0.92	0.92	0	0	0	0	0	0
6/8/2024 9:23	45901	AUBU_T1	0	0	0	0	0	0	1.06	1.06	0	0	0	0	0	0
6/8/2024 9:23	45902	AUBU_T1	3	3	0	0.67	0.8	0.13	0	0	0	0	0	0	0	0
6/8/2024 9:27	46803	HEPB_T2	0	1	1	0	0.8	0.8	0.53	0.52	0	0	0	0	0	0
6/8/2024 9:27	46801	HEPB_T2	0	0	0	0	0	0	0.63	0.65	0	0	0	0	0	0
6/8/2024 9:28	46801	HEPB_T2	0	0	0	0	0	0	0.63	0.65	0	0	0	0	0	0
6/8/2024 9:28	46803	HEPB_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/8/2024 9:29	40101	HUNT_T2	0	0	0	0	0	0	-0.59	-0.58	0	0	0	0	0	0
6/8/2024 9:29	45802	HEGI_T2	13	42	29	0.38	0.71	0.33	0	0	0	0	0	0	0	0
6/8/2024 9:30	41801	GOCI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 9:31	45802	HEGI_T2	42	32	-10	0.71	0.58	-0.13	0	0	0	0	0	0	0	0
6/8/2024 9:32	56501	ROCK_T2	0	1	1	0	0.1	0.1	-1.11	-1.09	0	0	0	0	0	0
6/8/2024 9:32	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 9:33	52102	MEIS_T1	3	3	0	0.47	0.27	-0.2	0	0	0	0	0	0	0	0
6/8/2024 9:34	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 9:34	56501	ROCK_T2	0	1	1	0	0.1	0.1	-2.23	-2.19	0	0	0	0	0	0
6/8/2024 9:34	52102	MEIS_T1	3	3	0	0.47	0.27	-0.2	0	0	0	0	0	0	0	0
6/8/2024 9:37	45902	AUBU_T1	3	3	0	0.73	0.8	0.07	-0.34	-0.32	0	0	0	0	0	0
6/8/2024 9:37	43102	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 9:37	43103	SMIL_T2	13	12	-1	0.39	0.44	0.05	-4	-4.1	0	0	0	0	0	0
6/8/2024 9:38	43103	SMIL_T2	13	12	-1	0.39	0.44	0.05	-2	-2.05	0	0	0	0	0	0
6/8/2024 9:38	56801	BENV_T1	23	19	-4	0.85	0.92	0.07	-2.67	-2.57	6	6	0	3600	3600	0
6/8/2024 9:38	44301	BEAV_T2	0	0	0	0	0	0	-0.23	-0.21	1	1	0	600	600	0
6/8/2024 9:38	43102	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 9:38	56803	BENV_T1	0	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0
6/8/2024 9:39	45902	AUBU_T1	3	3	0	0.73	0.8	0.07	-0.34	-0.32	0	0	0	0	0	0
6/8/2024 9:39	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 9:39	44301	BEAV_T2	0	0	0	0	0	0	-0.23	-0.21	1	1	0	600	600	0
6/8/2024 9:39	56501	ROCK_T2	0	1	1	0	0.1	0.1	-1.09	-1.07	0	0	0	0	0	0
6/8/2024 9:39	43102	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 9:39	43103	SMIL_T2	13	12	-1	0.39	0.44	0.05	-2	-2.05	0	0	0	0	0	0
6/8/2024 9:40	56801	BENV_T1	23	19	-4	0.85	0.92	0.07	-1.78	-1.71	4	4	0	2400	2400	0
6/8/2024 9:40	56803	BENV_T1	0	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0
6/8/2024 9:41	56801	BENV_T1	23	19	-4	0.85	0.92	0.07	-2.67	-2.57	6	6	0	3600	3600	0
6/8/2024 9:41	56803	BENV_T1	0	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0
6/8/2024 9:41	46206	DANV_T2	4	1	-3	0.4	0.5	0.1	2.01	2.04	1	1	0	1200	1200	0
6/8/2024 9:42	10801	CHHI_T1	3	3	0	0.23	0.4	0.17	-1.17	-1.11	2	2	0	1500	1500	0
6/8/2024 9:43	46803	HEPB_T2	1	1	0	0.3	0.8	0.5	0.52	0.6	0	0	0	0	0	0
6/8/2024 9:43	46206	DANV_T2	4	1	-3	0.4	0.5	0.1	4.02	4.08	2	2	0	2400	2400	0
6/8/2024 9:43	10801	CHHI_T1	3	3	0	0.23	0.4	0.17	-1.17	-1.11	2	2	0	1500	1500	0
6/8/2024 9:44	63801	HEMP_T1	2	1	-1	0.15	0.2	0.05	-0.94	-0.85	1	1	0	900	900	0
6/8/2024 9:44	46801	HEPB_T2	0	0	0	0	0	0	0.65	0.67	0	0	0	0	0	0
6/8/2024 9:44	46803	HEPB_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
6/8/2024 9:44	63804	HEMP_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
6/8/2024 9:46	65503	MOJO_T2	0	0	0	0	0	0	-0.86	-0.85	1	1	0	900	900	0
6/8/2024 9:47	65503	MOJO_T2	0	0	0	0	0	0	-0.86	-0.85	1	1	0	900	900	0
6/8/2024 9:48	43202	MVIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/8/2024 9:48	43201	MVIL_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
6/8/2024 9:49	64101	REFR_T1	0	1	1	0	0.3	0.3	0.31	0.11	0	0	0	0	0	0
6/8/2024 9:53	10801	CHHI_T1	2	3	1	0.35	0.4	0.05	-1.11	-1.16	2	2	0	1500	1500	0
6/8/2024 9:54	56803	BENV_T1	1	1	0	2.4	0	-2.4	0	0	0	0	0	0	0	0
6/8/2024 9:54	56801	BENV_T1	19	18	-1	0.89	1.04	0.15	-2.57	-2.38	6	6	0	3600	3600	0
6/8/2024 9:55	56801	BENV_T1	19	18	-1	0.89	1.04	0.15	-0.86	-0.79	2	2	0	1200	1200	0
6/8/2024 9:55	56803	BENV_T1	1	1	0	2.4	0	-2.4	0	0	0	0	0	0	0	0
6/8/2024 9:55	45802	HEGI_T2	32	45	13	0.58	0.81	0.23	0	0	0	0	0	0	0	0
6/8/2024 9:56	56803	BENV_T1	1	1	0	2.4	0	-2.4	0	0	0	0	0	0	0	0
6/8/2024 9:56	56801	BENV_T1	19	18	-1	0.89	1.04	0.15	-1.71	-1.59	4	4	0	2400	2400	0
6/8/2024 9:57	56803	BENV_T1	1	1	0	2.4	0	-2.4	0	0	0	0	0	0	0	0
6/8/2024 9:57	41801	GOCI_T2	2	1	-1	1	0.1	-0.9	0	0	0	0	0	0	0	0
6/8/2024 9:57	56801	BENV_T1	19	18	-1	0.89	1.04	0.15	-1.71	-1.59	4	4	0	2400	2400	0
6/8/2024 9:59	44301	BEAV_T2	0	0	0	0	0	0	-0.21	-0.2	1	1	0	600	600	0
6/8/2024 10:00	48302	ORWI_T2	2	2	0	0.75	0.65	-0.1	-1.13	-1.1	0	0	0	0	0	0
6/8/2024 10:00	45003	LIME_2	2	2	0	1.65	2.9	1.25	0.44	0.46	0	0	0	0	0	0
6/8/2024 10:00	64101	REFR_T1	0	1	1	0	0.3	0.3	0.22	0.26	0	0	0	0	0	0
6/8/2024 10:00	67103	SPRI_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
6/8/2024 10:00	45001	LIME_2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/8/2024 10:00	58705	ROSE_T2	5	5	0	1.14	0.96	-0.18	0	0	0	0	0	0	0	0
6/8/2024 10:00	58702	ROSE_T2	0	0	0	0	0	0	-2.67	-2.75	0	0	0	0	0	0
6/8/2024 10:00	41801	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 10:00	44301	BEAV_T2	0	0	0	0	0	0	-0.21	-0.2	1	1	0	600	600	0
6/8/2024 10:00	56802	BENV_T2	0	1	1	0	0.2	0.2	-1.38	-1.35	0	0	0	0	0	0
6/8/2024 10:00	58706	ROSE_T2	1	1	0	1.2	1.7	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/8/2024 10:00	40505	CRES_T1	3	3	0	4.1	4	-0.1	0.37	0.38	0	0	0	0	0	0
6/8/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
6/8/2024 10:00	55105	WERT_T1	0	0	0	0	0	0	-0.29	-0.28	1	1	0	900	900	0
6/8/2024 10:00	45002	LIME_2	1	1	0	3.5	4.1	0.6	0	0	0	0	0	0	0	0
6/8/2024 10:00	67503	WEWI_T2	1	0	-1	3.8	0	-3.8	0	0	0	0	0	0	0	0
6/8/2024 10:00	67502	WEWI_T2	0	0	0	0	0	0	-1.27	-1.25	1	1	0	900	900	0
6/8/2024 10:03	67605	WARW_T1	1	1	0	0.3	1	0.7	-0.96	-0.94	0	0	0	0	0	0
6/8/2024 10:07	64101	REFR_T1	0	1	1	0	0.3	0.3	0.26	0.31	0	0	0	0	0	0
6/8/2024 10:08	67503	WEWI_T2	1	0	-1	3.8	0	-3.8	-0.03	0.01	0	0	0	0	0	0
6/8/2024 10:08	45902	AUBU_T1	3	3	0	0.67	1.1	0.43	-0.31	-0.3	0	0	0	0	0	0
6/8/2024 10:08	64101	REFR_T1	0	1	1	0	0.3	0.3	0.39	0.47	0	0	0	0	0	0
6/8/2024 10:09	10801	CHHI_T1	3	3	0	0.4	0.47	0.07	-1.16	-1.16	2	2	0	1500	1500	0
6/8/2024 10:09	45501	DERR_T2	0	0	0	0	0	0	0.29	0.3	1	1	0	600	600	0
6/8/2024 10:10	46206	DANV_T2	1	1	0	0.5	0.2	-0.3	2.09	2.04	1	1	0	1200	1200	0
6/8/2024 10:10	45902	AUBU_T1	3	3	0	0.67	1.1	0.43	-0.92	-0.91	0	0	0	0	0	0
6/8/2024 10:10	16102	BING_T2	0	1	1	0	0	0	1.15	1.13	0	0	0	0	0	0
6/8/2024 10:10	16101	BING_T2	1	1	0	9.9	9.8	-0.1	0	0	0	0	0	0	0	0
6/8/2024 10:11	45501	DERR_T2	0	0	0	0	0	0	0.29	0.3	1	1	0	600	600	0
6/8/2024 10:11	44301	BEAV_T2	0	0	0	0	0	0	-0.2	-0.18	1	1	0	600	600	0
6/8/2024 10:11	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/8/2024 10:11	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/8/2024 10:11	67803	WLAN_T1	0	0	0	0	0	0	-1.4	-1.38	0	0	0	0	0	0
6/8/2024 10:11	45902	AUBU_T1	3	3	0	0.67	1.1	0.43	-0.61	-0.6	0	0	0	0	0	0
6/8/2024 10:11	20401	ASHF_T2	0	0	0	0	0	0	-0.17	-0.13	0	0	0	0	0	0
6/8/2024 10:12	45902	AUBU_T1	3	3	0	0.67	1.1	0.43	-0.31	-0.3	0	0	0	0	0	0
6/8/2024 10:12	41801	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 10:13	52403	GRPA_T2	0	1	1	0	0.4	0.4	-0.42	-0.41	0	0	0	0	0	0
6/8/2024 10:13	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 10:13	11507	FREE_T2	0	0	0	0	0	0	1.12	1.1	0	0	0	0	0	0
6/8/2024 10:13	41801	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 10:13	10801	CHHI_T1	3	3	0	0.4	0.47	0.07	-1.16	-1.16	2	2	0	1500	1500	0
6/8/2024 10:14	46206	DANV_T2	1	1	0	0.5	0.2	-0.3	2.09	2.04	1	1	0	1200	1200	0
6/8/2024 10:14	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 10:14	45501	DERR_T2	0	0	0	0	0	0	0.29	0.3	1	1	0	600	600	0
6/8/2024 10:14	52102	MEIS_T1	1	5	4	0.2	0.2	0	0	0	0	0	0	0	0	0
6/8/2024 10:14	46803	HEPB_T2	1	1	0	0.5	0.5	0	0.58	0.63	0	0	0	0	0	0
6/8/2024 10:14	52403	GRPA_T2	0	1	1	0	0.4	0.4	-0.42	-0.41	0	0	0	0	0	0
6/8/2024 10:14	24702	FLND_T2	0	2	2	0	0.35	0.35	-0.31	-0.44	1	1	0	1200	1200	0
6/8/2024 10:14	46801	HEPB_T2	0	2	2	0	0.25	0.25	1.39	1.43	0	0	0	0	0	0
6/8/2024 10:14	46801	HEPB_T2	0	2	2	0	0.25	0.25	0.69	0.71	0	0	0	0	0	0
6/8/2024 10:15	52102	MEIS_T1	2	5	3	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
6/8/2024 10:15	63804	HEMP_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
6/8/2024 10:15	41801	GOCI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/8/2024 10:15	46803	HEPB_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/8/2024 10:15	63801	HEMP_T1	0	0	0	0	0	0	-0.93	-0.92	1	1	0	900	900	0
6/8/2024 10:16	52102	MEIS_T1	2	5	3	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
6/8/2024 10:16	65005	NEFF_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/8/2024 10:16	40101	HUNT_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
6/8/2024 10:16	52403	GRPA_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/8/2024 10:16	46801	HEPB_T2	0	2	2	0	0.25	0.25	0.69	0.71	0	0	0	0	0	0
6/8/2024 10:16	52402	GRPA_T2	0	1	1	0	0.1	0.1	-1.71	-1.69	0	0	0	0	0	0
6/8/2024 10:16	65004	NEFF_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/8/2024 10:16	65003	NEFF_T2	2	1	-1	0.5	0.9	0.4	0	0	0	0	0	0	0	0
6/8/2024 10:16	46803	HEPB_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/8/2024 10:16	65001	NEFF_T2	0	0	0	0	0	0	-0.88	-0.73	1	1	0	1200	1200	0
6/8/2024 10:17	23403	HONE_T1	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
6/8/2024 10:18	66504	SMAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/8/2024 10:18	66502	SMAN_T2	0	1	1	0	0.1	0.1	0.04	-0.01	0	0	0	0	0	0
6/8/2024 10:18	65503	MOJO_T2	0	0	0	0	0	0	-1.7	-1.68	2	2	0	1800	1800	0
6/8/2024 10:18	58402	MORO_T1	0	1	1	0	0.9	0.9	-0.24	-0.24	2	2	0	1500	1500	0
6/8/2024 10:18	56501	ROCK_T2	0	2	2	0	0.3	0.3	-1.05	-1.03	0	0	0	0	0	0
6/8/2024 10:19	56501	ROCK_T2	0	2	2	0	0.3	0.3	-1.05	-1.03	0	0	0	0	0	0
6/8/2024 10:19	52102	MEIS_T1	2	5	3	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
6/8/2024 10:19	43103	SMIL_T2	11	3	-8	0.44	0.4	-0.04	-4.09	-4.07	0	0	0	0	0	0
6/8/2024 10:19	43102	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/8/2024 10:20	43103	SMIL_T2	11	3	-8	0.44	0.4	-0.04	-2.04	-2.04	0	0	0	0	0	0
6/8/2024 10:20	66504	SMAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/8/2024 10:20	65003	NEFF_T2	2	1	-1	0.5	0.9	0.4	0	0	0	0	0	0	0	0
6/8/2024 10:20	43108	SMIL_T2	0	0	0	0	0	0	-0.77	-0.77	1	1	0	1200	1200	0
6/8/2024 10:20	43102	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/8/2024 10:20	65005	NEFF_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/8/2024 10:20	66502	SMAN_T2	0	1	1	0	0.1	0.1	0.04	-0.01	0	0	0	0	0	0
6/8/2024 10:20	43201	MVIL_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
6/8/2024 10:20	65004	NEFF_T2	2	2	0	0.2	0.3	0.1	-0.83	-0.82	1	1	0	600	600	0
6/8/2024 10:20	43202	MVIL_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/8/2024 10:21	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 10:21	56501	ROCK_T2	0	2	2	0	0.3	0.3	-4.22	-4.14	0	0	0	0	0	0
6/8/2024 10:21	43108	SMIL_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	1200	1200	0
6/8/2024 10:21	43102	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/8/2024 10:21	43103	SMIL_T2	11	3	-8	0.44	0.4	-0.04	-2.04	-2.03	0	0	0	0	0	0
6/8/2024 10:21	66504	SMAN_T2	1	1	0	0.2	0.1	-0.1	-2.77	-2.81	2	2	0	2400	2400	0
6/8/2024 10:21	16302	ALPA_T2	0	0	0	0	0	0	0.92	0.96	0	0	0	0	0	0
6/8/2024 10:22	59102	WALK_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/8/2024 10:22	59101	WALK_T2	0	0	0	0	0	0	1.57	1.63	0	0	0	0	0	0
6/8/2024 10:22	24204	PROV_T3	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
6/8/2024 10:22	24201	PROV_T3	1	1	0	6.8	7	0.2	-1.23	-1.22	1	1	0	1200	1200	0
6/8/2024 10:23	20401	ASHF_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
6/8/2024 10:23	20403	ASHF_T2	0	2	2	0	0.35	0.35	1.49	1.58	0	0	0	0	0	0
6/8/2024 10:24	66504	SMAN_T2	1	1	0	0.2	0.1	-0.1	-1.39	-1.41	1	1	0	1200	1200	0
6/8/2024 10:24	20401	ASHF_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
6/8/2024 10:24	59101	WALK_T2	0	0	0	0	0	0	1.57	1.63	0	0	0	0	0	0
6/8/2024 10:24	59102	WALK_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/8/2024 10:24	20403	ASHF_T2	0	2	2	0	0.35	0.35	0.5	0.53	0	0	0	0	0	0
6/8/2024 10:24	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 10:25	59101	WALK_T2	0	0	0	0	0	0	3.13	3.26	0	0	0	0	0	0
6/8/2024 10:25	16302	ALPA_T2	0	0	0	0	0	0	0.92	0.96	0	0	0	0	0	0
6/8/2024 10:25	59102	WALK_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/8/2024 10:26	17802	GILB_T1	1	1	0	0.4	0.9	0.5	0.05	0.06	0	0	0	0	0	0
6/8/2024 10:26	20401	ASHF_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
6/8/2024 10:26	20403	ASHF_T2	0	2	2	0	0.35	0.35	0.5	0.53	0	0	0	0	0	0
6/8/2024 10:26	16302	ALPA_T2	0	0	0	0	0	0	1.84	1.92	0	0	0	0	0	0
6/8/2024 10:27	41501	FAIR_T2	0	0	0	0	0	0	-1.18	-1.17	1	1	0	600	600	0
6/8/2024 10:28	46206	DANV_T2	1	1	0	0.2	0.7	0.5	2.04	1.97	1	1	0	1200	1200	0
6/8/2024 10:28	46203	DANV_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/8/2024 10:30	63302	GREE_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
6/8/2024 10:31	47001	HUGH_T2	0	0	0	0	0	0	-1.4	-1.38	0	0	0	0	0	0
6/8/2024 10:32	13503	MCMI_T2	47	75	28	0.25	0.24	-0.01	1.84	1.83	0	0	0	0	0	0
6/8/2024 10:33	12801	MICK_T1	0	0	0	0	0	0	-0.81	-0.76	1	1	0	600	600	0
6/8/2024 10:33	12803	MICK_T1	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
6/8/2024 10:34	13503	MCMI_T2	47	75	28	0.25	0.24	-0.01	-0.92	-0.92	0	0	0	0	0	0
6/8/2024 10:36	42601	TUSC_T1	0	0	0	0	0	0	-0.43	-0.35	2	2	0	1800	1800	0
6/8/2024 10:38	56801	BENV_T1	16	17	1	1.09	1.09	0	-0.85	-0.75	2	2	0	1200	1200	0
6/8/2024 10:38	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 10:38	64101	REFR_T1	1	2	1	0.2	0.55	0.35	0.18	0.18	0	0	0	0	0	0
6/8/2024 10:38	56803	BENV_T1	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
6/8/2024 10:38	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 10:38	40201	BEGA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/8/2024 10:38	16103	BING_T2	0	0	0	0	0	0	-1.31	-1.29	1	1	0	900	900	0
6/8/2024 10:39	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 10:39	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 10:39	16103	BING_T2	0	0	0	0	0	0	-1.31	-1.29	1	1	0	900	900	0
6/8/2024 10:40	56803	BENV_T1	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
6/8/2024 10:40	56801	BENV_T1	16	17	1	1.09	1.09	0	-1.7	-1.5	4	4	0	2400	2400	0
6/8/2024 10:40	40201	BEGA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/8/2024 10:41	56803	BENV_T1	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
6/8/2024 10:41	60801	BUCK_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
6/8/2024 10:41	56801	BENV_T1	16	17	1	1.09	1.09	0	-1.7	-1.5	4	4	0	2400	2400	0
6/8/2024 10:42	56802	BENV_T2	1	1	0	0.2	0.1	-0.1	-1.31	-1.29	0	0	0	0	0	0
6/8/2024 10:43	54504	ENOL_T2	1	1	0	0.3	0.1	-0.2	-1	-0.99	1	1	0	600	600	0
6/8/2024 10:47	55002	NEWP_T1	5	5	0	0.76	0.82	0.06	-0.13	-0.12	0	0	0	0	0	0
6/8/2024 10:47	55001	NEWP_T1	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
6/8/2024 10:47	64204	KINZ_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
6/8/2024 10:47	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
6/8/2024 10:47	63801	HEMP_T1	0	1	1	0	0.2	0.2	-0.89	-0.91	1	1	0	900	900	0
6/8/2024 10:47	64203	KINZ_T1	0	0	0	0	0	0	1.04	1.09	1	1	0	600	600	0
6/8/2024 10:48	55002	NEWP_T1	5	5	0	0.76	0.82	0.06	-0.13	-0.12	0	0	0	0	0	0
6/8/2024 10:48	55001	NEWP_T1	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
6/8/2024 10:49	55003	NEWP_T2	11	10	-1	0.46	0.36	-0.1	-0.79	-0.78	1	1	0	600	600	0
6/8/2024 10:50	66701	STRA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/8/2024 10:50	55002	NEWP_T1	5	5	0	0.76	0.82	0.06	-0.25	-0.25	0	0	0	0	0	0
6/8/2024 10:50	65205	PRIN_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
6/8/2024 10:50	55001	NEWP_T1	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
6/8/2024 10:50	67201	TEHI_T1	2	2	0	0.35	1.25	0.9	0.49	0.28	1	1	0	600	600	0
6/8/2024 10:50	66703	STRA_T1	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
6/8/2024 10:50	67203	TEHI_T1	1	3	2	0.2	0.37	0.17	0	0	0	0	0	0	0	0
6/8/2024 10:51	54602	SUMM_T2	0	0	0	0	0	0	-2.25	-2.23	1	1	0	600	600	0
6/8/2024 10:52	67201	TEHI_T1	2	2	0	0.35	1.25	0.9	0	0	0	0	0	0	0	0
6/8/2024 10:52	67203	TEHI_T1	1	3	2	0.2	0.37	0.17	1	1	1	1	0	900	900	0
6/8/2024 10:53	56801	BENV_T1	17	16	-1	1.09	0.94	-0.15	-1.5	-1.42	4	4	0	2400	2400	0
6/8/2024 10:53	56803	BENV_T1	1	1	0	1.9	0	-1.9	0	0	0	0	0	0	0	0
6/8/2024 10:54	56801	BENV_T1	17	16	-1	1.09	0.94	-0.15	-2.24	-2.13	6	6	0	3600	3600	0
6/8/2024 10:54	56803	BENV_T1	1	1	0	1.9	0	-1.9	0	0	0	0	0	0	0	0
6/8/2024 10:54	45501	DERR_T2	0	1	1	0	0.6	0.6	0.32	0.33	1	1	0	600	600	0
6/8/2024 10:56	61306	EARL_T1	0	0	0	0	0	0	-1.24	-1.24	0	0	0	0	0	0
6/8/2024 10:56	10901	COOP_T2	0	1	1	0	0.2	0.2	-0.29	-0.27	1	1	0	1200	1200	0
6/8/2024 10:56	10903	COOP_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/8/2024 10:57	56801	BENV_T1	17	16	-1	1.09	0.94	-0.15	-2.24	-2.13	6	6	0	3600	3600	0
6/8/2024 10:57	56803	BENV_T1	1	1	0	1.9	0	-1.9	0	0	0	0	0	0	0	0
6/8/2024 10:57	45501	DERR_T2	0	1	1	0	0.6	0.6	0.64	0.66	2	2	0	1200	1200	0
6/8/2024 10:57	44504	HAMI_T2	0	0	0	0	0	0	-1.1	-1.11	0	0	0	0	0	0
6/8/2024 10:57	44502	HAMI_T2	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
6/8/2024 10:58	45501	DERR_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/8/2024 10:58	45502	DERR_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/8/2024 10:58	40702	FFLD_T1	0	0	0	0	0	0	-1.13	-1.13	1	1	0	1200	1200	0
6/8/2024 11:00	12701	MACU_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
6/8/2024 11:02	46504	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 11:02	65501	MOJO_T1	0	0	0	0	0	0	-1.07	-1.07	1	1	0	900	900	0
6/8/2024 11:02	46506	LOHA_T1	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
6/8/2024 11:03	12701	MACU_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
6/8/2024 11:04	25502	MADI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 11:04	25503	MADI_T1	10	79	69	0.21	0.26	0.05	-0.86	-0.86	0	0	0	0	0	0
6/8/2024 11:05	65205	PRIN_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
6/8/2024 11:05	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/8/2024 11:05	15702	TANN_T2	0	0	0	0	0	0	-0.6	-0.57	0	0	0	0	0	0
6/8/2024 11:05	15703	TANN_T2	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
6/8/2024 11:06	43103	SMIL_T2	5	5	0	0.18	0.22	0.04	-2.01	-2.03	0	0	0	0	0	0
6/8/2024 11:06	43108	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 11:06	66504	SMAN_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/8/2024 11:06	66505	SMAN_T2	0	1	1	0	0.3	0.3	0.77	0.24	2	2	0	1500	1100	-400
6/8/2024 11:06	55101	WERT_T1	0	0	0	0	0	0	-1.31	-1.17	2	2	0	1500	1500	0
6/8/2024 11:06	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/8/2024 11:06	67605	WARW_T1	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
6/8/2024 11:06	27603	PIRI_T2	0	0	0	0	0	0	-0.47	-0.55	2	2	0	1800	1800	0
6/8/2024 11:06	67603	WARW_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
6/8/2024 11:06	67303	WYOM_T2	0	0	0	0	0	0	-1.56	-1.51	0	0	0	0	0	0
6/8/2024 11:07	65904	SAKR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 11:07	67605	WARW_T1	2	2	0	0.8	0.9	0.1	-0.89	-0.88	0	0	0	0	0	0
6/8/2024 11:07	65901	SAKR_T2	2	2	0	4.25	4.3	0.05	-1.38	-1.33	2	2	0	1500	1500	0
6/8/2024 11:08	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/8/2024 11:08	66504	SMAN_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/8/2024 11:08	60803	BUCK_T1	0	0	0	0	0	0	-1.05	-1.05	1	1	0	600	600	0
6/8/2024 11:08	20403	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 11:08	67605	WARW_T1	2	2	0	0.8	0.9	0.1	-1.78	-1.75	0	0	0	0	0	0
6/8/2024 11:08	43103	SMIL_T2	5	5	0	0.18	0.22	0.04	-2.01	-2.03	0	0	0	0	0	0
6/8/2024 11:08	43108	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 11:08	66505	SMAN_T2	0	1	1	0	0.3	0.3	0.77	0.24	2	3	1	1100	1700	600
6/8/2024 11:08	55101	WERT_T1	0	0	0	0	0	0	-3.52	-3.88	6	6	0	4500	4500	0
6/8/2024 11:08	20401	ASHF_T2	2	1	-1	0.5	0.5	0	-0.16	-0.07	0	0	0	0	0	0
6/8/2024 11:09	67303	WYOM_T2	0	0	0	0	0	0	-1.56	-1.51	0	0	0	0	0	0
6/8/2024 11:09	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 11:10	15702	TANN_T2	0	0	0	0	0	0	-0.28	-0.25	0	0	0	0	0	0
6/8/2024 11:10	46203	DANV_T2	0	0	0	0	0	0	-3.79	-3.79	0	0	0	0	0	0
6/8/2024 11:10	46202	DANV_T2	0	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0
6/8/2024 11:10	16103	BING_T2	0	1	1	0	0.1	0.1	-1.27	-1.26	1	1	0	900	900	0
6/8/2024 11:10	16101	BING_T2	2	1	-1	5.05	10	4.95	0	0	0	0	0	0	0	0
6/8/2024 11:10	57004	WHHI_T2	0	0	0	0	0	0	-0.31	-0.23	0	0	0	0	0	0
6/8/2024 11:10	55101	WERT_T1	0	0	0	0	0	0	-1.17	-1.29	2	2	0	1500	1500	0
6/8/2024 11:10	46206	DANV_T2	1	4	3	0.7	1	0.3	0	0	0	0	0	0	0	0
6/8/2024 11:10	15703	TANN_T2	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
6/8/2024 11:10	57002	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 11:10	16102	BING_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/8/2024 11:11	60803	BUCK_T1	0	0	0	0	0	0	-2.11	-2.1	2	2	0	1200	1200	0
6/8/2024 11:11	46202	DANV_T2	0	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0
6/8/2024 11:11	55101	WERT_T1	0	0	0	0	0	0	-1.17	-1.29	2	2	0	1500	1500	0
6/8/2024 11:11	46203	DANV_T2	0	0	0	0	0	0	-3.79	-3.79	0	0	0	0	0	0
6/8/2024 11:11	46206	DANV_T2	1	4	3	0.7	1	0.3	0	0	0	0	0	0	0	0
6/8/2024 11:12	46206	DANV_T2	1	4	3	0.7	1	0.3	2.06	1.98	1	1	0	1200	1200	0
6/8/2024 11:12	60803	BUCK_T1	0	0	0	0	0	0	-1.05	-1.05	1	1	0	600	600	0
6/8/2024 11:12	67605	WARW_T1	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
6/8/2024 11:12	46202	DANV_T2	0	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0
6/8/2024 11:12	67603	WARW_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
6/8/2024 11:12	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 11:13	46206	DANV_T2	1	4	3	0.7	1	0.3	0	0	0	0	0	0	0	0
6/8/2024 11:13	46203	DANV_T2	0	0	0	0	0	0	-1.9	-1.89	0	0	0	0	0	0
6/8/2024 11:13	46202	DANV_T2	0	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0
6/8/2024 11:14	63804	HEMP_T1	1	1	0	5.8	5.8	0	-0.04	0	0	0	0	0	0	0
6/8/2024 11:14	52002	LING_T2	0	0	0	0	0	0	0.19	0.22	0	0	0	0	0	0
6/8/2024 11:14	12703	MACU_T2	0	0	0	0	0	0	-0.74	-0.69	0	0	0	0	0	0
6/8/2024 11:14	63801	HEMP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/8/2024 11:14	52004	LING_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/8/2024 11:15	52002	LING_T2	0	0	0	0	0	0	0.19	0.22	0	0	0	0	0	0
6/8/2024 11:15	24702	FLND_T2	0	0	0	0	0	0	-0.12	-0.05	1	1	0	1200	1200	0
6/8/2024 11:15	52004	LING_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/8/2024 11:16	59301	MCAL_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/8/2024 11:16	59302	MCAL_T1	0	0	0	0	0	0	-0.25	-0.18	1	1	0	600	600	0
6/8/2024 11:17	52001	LING_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
6/8/2024 11:17	55001	NEWP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/8/2024 11:17	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 11:17	45003	LIME_2	1	1	0	2.8	2.9	0.1	0.28	0.29	0	0	0	0	0	0
6/8/2024 11:17	55002	NEWP_T1	5	6	1	0.56	0.43	-0.13	-0.12	-0.12	0	0	0	0	0	0
6/8/2024 11:17	45002	LIME_2	1	1	0	2.9	3.4	0.5	0	0	0	0	0	0	0	0
6/8/2024 11:17	45001	LIME_2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/8/2024 11:19	60504	NMAN_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
6/8/2024 11:19	55002	NEWP_T1	5	6	1	0.56	0.43	-0.13	-0.25	-0.24	0	0	0	0	0	0
6/8/2024 11:19	60502	NMAN_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
6/8/2024 11:19	52102	MEIS_T1	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
6/8/2024 11:19	60501	NMAN_T2	3	3	0	4.3	4.1	-0.2	0	0	0	0	0	0	0	0
6/8/2024 11:19	55001	NEWP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/8/2024 11:21	66505	SMAN_T2	0	1	1	0	0.3	0.3	0.24	0.81	2	3	1	1100	1700	600
6/8/2024 11:21	67602	WARW_T2	0	2	2	0	0.15	0.15	-0.97	-0.63	6	6	0	4500	4500	0
6/8/2024 11:21	67605	WARW_T1	1	2	1	1.3	1	-0.3	-0.88	-0.86	0	0	0	0	0	0
6/8/2024 11:21	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/8/2024 11:21	66504	SMAN_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/8/2024 11:22	67605	WARW_T1	1	2	1	1.3	1	-0.3	-1.75	-1.73	0	0	0	0	0	0
6/8/2024 11:22	55001	NEWP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/8/2024 11:22	55002	NEWP_T1	5	6	1	0.56	0.43	-0.13	-0.12	-0.12	0	0	0	0	0	0
6/8/2024 11:23	67605	WARW_T1	1	2	1	1.3	1	-0.3	-0.88	-0.86	0	0	0	0	0	0
6/8/2024 11:25	43402	BENT_T1	0	0	0	0	0	0	-1.85	-1.85	2	2	0	1800	1800	0
6/8/2024 11:25	43401	BENT_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/8/2024 11:26	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.92	1	1	0	900	900	0
6/8/2024 11:26	43401	BENT_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/8/2024 11:27	52403	GRPA_T2	0	0	0	0	0	0	-0.76	-0.75	0	0	0	0	0	0
6/8/2024 11:27	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/8/2024 11:28	41502	FAIR_T2	0	0	0	0	0	0	-1.56	-1.55	1	1	0	900	900	0
6/8/2024 11:29	16401	MOPO_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
6/8/2024 11:29	17804	GILB_T2	1	0	-1	0.1	0	-0.1	-0.51	-0.5	0	0	0	0	0	0
6/8/2024 11:30	58401	MORO_T1	0	0	0	0	0	0	-0.88	-0.86	1	1	0	600	600	0
6/8/2024 11:31	59002	MIFF_T1	5	2	-3	0.34	0.15	-0.19	0	0	0	0	0	0	0	0
6/8/2024 11:31	59001	MIFF_T1	2	3	1	0.65	1.5	0.85	0	0	0	0	0	0	0	0
6/8/2024 11:31	59003	MIFF_T1	1	0	-1	0.2	0	-0.2	0.46	0.51	0	0	0	0	0	0
6/8/2024 11:32	52403	GRPA_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
6/8/2024 11:32	41902	REED_T1	1	0	-1	0.2	0	-0.2	0.95	0.97	0	0	0	0	0	0
6/8/2024 11:32	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 11:33	51004	NHAR_T1	1	2	1	6.7	3.45	-3.25	0	0	0	0	0	0	0	0
6/8/2024 11:33	51002	NHAR_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/8/2024 11:33	51003	NHAR_T1	0	0	0	0	0	0	-2.04	-2.02	1	1	0	1200	1200	0
6/8/2024 11:33	65501	MOJO_T1	0	0	0	0	0	0	-1.07	-0.91	1	1	0	900	900	0
6/8/2024 11:33	58401	MORO_T1	0	0	0	0	0	0	-1.76	-1.73	2	2	0	1200	1200	0
6/8/2024 11:34	58402	MORO_T1	0	0	0	0	0	0	-0.33	-0.32	2	2	0	1500	1500	0
6/8/2024 11:35	66701	STRA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 11:35	58402	MORO_T1	0	0	0	0	0	0	-0.33	-0.32	2	2	0	1500	1500	0
6/8/2024 11:35	66703	STRA_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
6/8/2024 11:37	43108	SMIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/8/2024 11:37	43103	SMIL_T2	2	1	-1	0.15	0.8	0.65	-1.96	-1.99	0	0	0	0	0	0
6/8/2024 11:37	41902	REED_T1	1	0	-1	0.2	0	-0.2	0.97	1	0	0	0	0	0	0
6/8/2024 11:38	66701	STRA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 11:38	66703	STRA_T1	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
6/8/2024 11:39	67902	WNHO_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/8/2024 11:39	67901	WNHO_T2	59	32	-27	0.27	0.36	0.09	-0.2	-0.21	0	0	0	0	0	0
6/8/2024 11:40	10805	CHHI_T2	1	1	0	8.5	8.6	0.1	-1.28	-1.31	1	1	0	600	600	0
6/8/2024 11:41	10801	CHHI_T1	1	1	0	0.1	0	-0.1	-1.13	-1.13	2	2	0	1500	1500	0
6/8/2024 11:42	10801	CHHI_T1	1	1	0	0.1	0	-0.1	-2.27	-2.26	4	4	0	3000	3000	0
6/8/2024 11:43	52403	GRPA_T2	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
6/8/2024 11:45	63804	HEMP_T1	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
6/8/2024 11:45	63802	HEMP_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
6/8/2024 11:46	64302	LINC_T2	0	0	0	0	0	0	1.22	1.23	0	0	0	0	0	0
6/8/2024 11:47	64302	LINC_T2	0	0	0	0	0	0	1.22	1.23	0	0	0	0	0	0
6/8/2024 11:48	51002	NHAR_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/8/2024 11:48	64704	LITI_T1	0	0	0	0	0	0	0.05	0.06	1	1	0	600	600	0
6/8/2024 11:48	51004	NHAR_T1	2	1	-1	3.45	6.5	3.05	-0.37	-0.37	0	0	0	0	0	0
6/8/2024 11:51	59101	WALK_T2	0	0	0	0	0	0	1.51	1.56	0	0	0	0	0	0
6/8/2024 11:51	14103	TRUM_T2	1	2	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
6/8/2024 11:51	14101	TRUM_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
6/8/2024 11:51	14102	TRUM_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/8/2024 11:53	48302	ORWI_T2	2	2	0	0.25	0.8	0.55	0	0	0	0	0	0	0	0
6/8/2024 11:53	45902	AUBU_T1	3	16	13	0.9	0.29	-0.61	-0.6	-1.91	0	2	2	0	1200	1200
6/8/2024 11:53	66701	STRA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/8/2024 11:53	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	900	900	0
6/8/2024 11:53	66703	STRA_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
6/8/2024 11:54	56801	BENV_T1	11	18	7	0.6	0.96	0.36	-0.69	-0.72	2	2	0	1200	1200	0
6/8/2024 11:54	55101	WERT_T1	0	0	0	0	0	0	-2.05	-2.17	3	3	0	2400	2400	0
6/8/2024 11:54	59201	THOM_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/8/2024 11:54	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 11:54	59202	THOM_T1	5	6	1	0.26	0.33	0.07	0	0	0	0	0	0	0	0
6/8/2024 11:55	45901	AUBU_T1	0	0	0	0	0	0	2.13	2.14	0	0	0	0	0	0
6/8/2024 11:55	56801	BENV_T1	11	18	7	0.6	0.96	0.36	-1.37	-1.44	4	4	0	2400	2400	0
6/8/2024 11:55	67605	WARW_T1	1	2	1	1.8	0.8	-1	-0.85	-0.84	0	0	0	0	0	0
6/8/2024 11:55	56803	BENV_T1	0	1	1	0	0	0	0	0.01	0	0	0	0	0	0
6/8/2024 11:55	45902	AUBU_T1	3	16	13	0.9	0.29	-0.61	0	0	0	0	0	0	0	0
6/8/2024 11:56	56802	BENV_T2	0	0	0	0	0	0	-1.19	-1.18	0	0	0	0	0	0
6/8/2024 11:56	56801	BENV_T1	11	18	7	0.6	0.96	0.36	-0.69	-0.72	2	2	0	1200	1200	0
6/8/2024 11:56	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	900	900	0
6/8/2024 11:56	46004	BERW_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
6/8/2024 11:56	55101	WERT_T1	0	0	0	0	0	0	-2.05	-2.17	3	3	0	2400	2400	0
6/8/2024 11:56	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 11:57	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/8/2024 11:57	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	900	900	0
6/8/2024 11:57	56801	BENV_T1	11	18	7	0.6	0.96	0.36	-2.06	-2.15	6	6	0	3600	3600	0
6/8/2024 11:58	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 11:58	63501	HEID_TBK1-2	2	19	17	0.1	0.16	0.06	-0.07	-0.09	1	1	0	900	900	0
6/8/2024 11:59	63501	HEID_TBK1-2	2	19	17	0.1	0.16	0.06	-0.07	-0.09	1	1	0	900	900	0
6/8/2024 12:00	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 12:01	46101	MACI_T2	0	0	0	0	0	0	-0.17	-0.51	1	1	0	1200	1200	0
6/8/2024 12:03	64101	REFR_T1	2	0	-2	0.3	0	-0.3	0.21	0.21	0	0	0	0	0	0
6/8/2024 12:03	12701	MACU_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
6/8/2024 12:04	64101	REFR_T1	2	0	-2	0.3	0	-0.3	0.41	0.42	0	0	0	0	0	0
6/8/2024 12:04	12701	MACU_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
6/8/2024 12:05	51503	SWAT_T1	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
6/8/2024 12:05	14603	SWHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/8/2024 12:05	14601	SWHI_T1	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
6/8/2024 12:06	64101	REFR_T1	2	0	-2	0.3	0	-0.3	0.21	0.22	0	0	0	0	0	0
6/8/2024 12:07	51503	SWAT_T1	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
6/8/2024 12:08	64101	REFR_T1	2	0	-2	0.3	0	-0.3	0.42	0.43	0	0	0	0	0	0
6/8/2024 12:09	60102	COCA_T1	0	0	0	0	0	0	1.28	0.89	4	4	0	2400	2400	0
6/8/2024 12:09	60101	COCA_T1	1	0	-1	0.4	0	-0.4	0.48	0.58	0	0	0	0	0	0
6/8/2024 12:10	45501	DERR_T2	1	1	0	0.2	0.3	0.1	-0.46	-0.42	2	2	0	1800	1800	0
6/8/2024 12:12	61801	EELI_T2	0	0	0	0	0	0	-1.08	-1.05	2	2	0	1200	1200	0
6/8/2024 12:12	61802	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 12:13	60904	DONG_T2	1	0	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/8/2024 12:13	60901	DONG_T2	2	3	1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
6/8/2024 12:13	60902	DONG_T2	0	2	2	0	0	0	1.26	1.21	0	0	0	0	0	0
6/8/2024 12:13	12202	FOGE_T2	0	0	0	0	0	0	-0.23	-0.23	1	1	0	600	600	0
6/8/2024 12:14	52403	GRPA_T2	0	1	1	0	7.1	7.1	-0.36	-0.35	0	0	0	0	0	0
6/8/2024 12:14	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 12:16	45801	HEGI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/8/2024 12:16	52403	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 12:16	52401	GRPA_T2	1	0	-1	0.4	0	-0.4	-0.37	-0.36	0	0	0	0	0	0
6/8/2024 12:16	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	900	900	0
6/8/2024 12:16	65503	MOJO_T2	0	0	0	0	0	0	-0.73	-0.71	1	1	0	900	900	0
6/8/2024 12:17	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	900	900	0
6/8/2024 12:18	12704	MACU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 12:18	12701	MACU_T1	0	1	1	0	0	0	0.15	0.16	0	0	0	0	0	0
6/8/2024 12:18	64101	REFR_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
6/8/2024 12:18	13503	MCMI_T2	20	8	-12	0.24	0.38	0.14	-0.9	-0.9	0	0	0	0	0	0
6/8/2024 12:19	64101	REFR_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
6/8/2024 12:20	43103	SMIL_T2	1	2	1	1.1	0.35	-0.75	0	0	0	0	0	0	0	0
6/8/2024 12:20	64101	REFR_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
6/8/2024 12:20	43108	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/8/2024 12:20	43104	SMIL_T2	0	0	0	0	0	0	-0.71	-0.71	1	1	0	300	300	0
6/8/2024 12:20	13503	MCMI_T2	20	8	-12	0.24	0.38	0.14	-0.9	-0.9	0	0	0	0	0	0
6/8/2024 12:21	58003	WCAR_T1	1	4	3	1.1	0.78	-0.32	0.03	0.03	1	1	0	600	600	0
6/8/2024 12:21	64101	REFR_T1	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
6/8/2024 12:21	58001	WCAR_T1	0	5	5	0	0.66	0.66	-0.12	-0.3	0	0	0	0	0	0
6/8/2024 12:22	58001	WCAR_T1	0	5	5	0	0.66	0.66	0	0	0	0	0	0	0	0
6/8/2024 12:22	43104	SMIL_T2	0	0	0	0	0	0	-0.71	-0.7	1	1	0	300	300	0
6/8/2024 12:22	43108	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/8/2024 12:22	43103	SMIL_T2	1	2	1	1.1	0.35	-0.75	0	0	0	0	0	0	0	0
6/8/2024 12:22	58003	WCAR_T1	1	4	3	1.1	0.78	-0.32	0.03	0.04	1	1	0	600	600	0
6/8/2024 12:22	10102	ALLE_T2	1	1	0	7.6	7.9	0.3	0	0	0	0	0	0	0	0
6/8/2024 12:23	43108	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/8/2024 12:23	43104	SMIL_T2	0	0	0	0	0	0	-1.41	-1.4	2	2	0	600	600	0
6/8/2024 12:23	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 12:23	58001	WCAR_T1	0	5	5	0	0.66	0.66	0	0	0	0	0	0	0	0
6/8/2024 12:23	64101	REFR_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
6/8/2024 12:23	10102	ALLE_T2	1	1	0	7.6	7.9	0.3	0	0	0	0	0	0	0	0
6/8/2024 12:23	43103	SMIL_T2	1	2	1	1.1	0.35	-0.75	0	0	0	0	0	0	0	0
6/8/2024 12:23	58003	WCAR_T1	1	4	3	1.1	0.78	-0.32	0.03	0.04	1	1	0	600	600	0
6/8/2024 12:24	67103	SPRI_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
6/8/2024 12:25	58001	WCAR_T1	0	5	5	0	0.66	0.66	0	0	0	0	0	0	0	0
6/8/2024 12:25	10701	CATA_T2	0	0	0	0	0	0	-1.74	-1.72	1	1	0	1200	1200	0
6/8/2024 12:25	58003	WCAR_T1	1	4	3	1.1	0.78	-0.32	0.03	0.04	1	1	0	600	600	0
6/8/2024 12:27	45802	HEGI_T2	11	47	36	0.39	1.17	0.78	0	0	0	0	0	0	0	0
6/8/2024 12:28	52402	GRPA_T2	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
6/8/2024 12:28	52401	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/8/2024 12:28	52403	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 12:30	45802	HEGI_T2	41	48	7	0.8	1.66	0.86	0	0	0	0	0	0	0	0
6/8/2024 12:30	63601	LETO_T1	3	1	-2	0.27	0.1	-0.17	1.36	1.53	1	1	0	900	900	0
6/8/2024 12:30	52402	GRPA_T2	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
6/8/2024 12:30	63602	LETO_T1	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/8/2024 12:30	52403	GRPA_T2	1	2	1	7.1	0.1	-7	0	0	0	0	0	0	0	0
6/8/2024 12:31	45501	DERR_T2	1	1	0	0.3	0.2	-0.1	-0.42	-0.42	2	2	0	1800	1800	0
6/8/2024 12:32	63601	LETO_T1	3	1	-2	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
6/8/2024 12:32	46903	MNTG_T2	4	5	1	0.88	0.66	-0.22	0	0	0	0	0	0	0	0
6/8/2024 12:32	46901	MNTG_T2	0	0	0	0	0	0	-0.54	-0.64	1	1	0	1200	1200	0
6/8/2024 12:32	63602	LETO_T1	2	3	1	0.1	0.13	0.03	-0.05	0.02	0	0	0	0	0	0
6/8/2024 12:33	63601	LETO_T1	3	1	-2	0.27	0.1	-0.17	1.36	1.53	1	1	0	900	900	0
6/8/2024 12:33	63602	LETO_T1	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/8/2024 12:34	63601	LETO_T1	3	1	-2	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
6/8/2024 12:34	63602	LETO_T1	2	3	1	0.1	0.13	0.03	-0.05	0.02	0	0	0	0	0	0
6/8/2024 12:36	59101	WALK_T2	0	1	1	0	0.3	0.3	1.51	1.22	0	0	0	0	0	0
6/8/2024 12:36	58006	WCAR_T2	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
6/8/2024 12:37	58003	WCAR_T1	3	4	1	0.77	0.78	0.01	0.04	0.04	1	1	0	600	600	0
6/8/2024 12:37	59101	WALK_T2	0	1	1	0	0.3	0.3	1.22	1.41	0	0	0	0	0	0
6/8/2024 12:37	58006	WCAR_T2	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
6/8/2024 12:37	58001	WCAR_T1	3	5	2	0.33	0.82	0.49	0	0	0	0	0	0	0	0
6/8/2024 12:38	10105	ALLE_T3	4	7	3	0.68	0.52	-0.16	0	0	0	0	0	0	0	0
6/8/2024 12:38	59101	WALK_T2	0	1	1	0	0.3	0.3	2.44	2.83	0	0	0	0	0	0
6/8/2024 12:38	10205	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 12:40	10903	COOP_T2	1	1	0	0.2	0.8	0.6	-0.03	0.02	1	1	0	600	600	0
6/8/2024 12:40	10901	COOP_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/8/2024 12:42	24702	FLND_T2	0	2	2	0	0.45	0.45	0.03	-0.01	1	1	0	1200	1200	0
6/8/2024 12:43	20601	GRWO_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
6/8/2024 12:43	52403	GRPA_T2	1	2	1	7.1	0.1	-7	-0.35	-0.34	0	0	0	0	0	0
6/8/2024 12:44	63803	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/8/2024 12:44	63801	HEMP_T1	10	7	-3	0.35	0.39	0.04	0	0	0	0	0	0	0	0
6/8/2024 12:44	63802	HEMP_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
6/8/2024 12:44	63804	HEMP_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
6/8/2024 12:45	44505	HAMI_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
6/8/2024 12:45	44504	HAMI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 12:45	46504	LOHA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/8/2024 12:45	44502	HAMI_T2	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
6/8/2024 12:45	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
6/8/2024 12:46	52002	LING_T2	0	0	0	0	0	0	0.24	0.3	0	0	0	0	0	0
6/8/2024 12:46	17401	FOHI_T1	0	0	0	0	0	0	-1.73	-1.72	0	0	0	0	0	0
6/8/2024 12:47	20603	GRWO_T2	0	0	0	0	0	0	0.51	0.46	0	0	0	0	0	0
6/8/2024 12:48	42902	MIDD_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
6/8/2024 12:48	63801	HEMP_T1	6	5	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/8/2024 12:48	63804	HEMP_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
6/8/2024 12:48	63802	HEMP_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
6/8/2024 12:48	42903	MIDD_T2	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
6/8/2024 12:50	15702	TANN_T2	0	0	0	0	0	0	-0.36	-0.49	0	0	0	0	0	0
6/8/2024 12:50	15703	TANN_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
6/8/2024 12:51	43105	SMIL_T2	0	0	0	0	0	0	-1.07	-1.07	0	0	0	0	0	0
6/8/2024 12:51	43103	SMIL_T2	1	4	3	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/8/2024 12:51	43108	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/8/2024 12:52	54601	SUMM_T2	0	0	0	0	0	0	-1.56	-1.57	2	2	0	2100	2100	0
6/8/2024 12:54	10805	CHHI_T2	1	1	0	8.3	8.3	0	-1.34	-1.22	1	1	0	600	600	0
6/8/2024 12:54	56803	BENV_T1	0	1	1	0	0	0	0.01	0.02	0	0	0	0	0	0
6/8/2024 12:54	56801	BENV_T1	22	24	2	0.95	0.94	-0.01	-1.57	-1.57	4	4	0	2400	2400	0
6/8/2024 12:54	15702	TANN_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
6/8/2024 12:54	15703	TANN_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
6/8/2024 12:55	54601	SUMM_T2	0	0	0	0	0	0	-1.56	-1.57	2	2	0	2100	2100	0
6/8/2024 12:55	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 12:55	56801	BENV_T1	22	24	2	0.95	0.94	-0.01	-2.35	-2.36	6	6	0	3600	3600	0
6/8/2024 12:56	10805	CHHI_T2	1	1	0	8.3	8.3	0	-1.34	-1.22	1	1	0	600	600	0
6/8/2024 12:57	56801	BENV_T1	22	24	2	0.95	0.94	-0.01	-0.78	-0.79	2	2	0	1200	1200	0
6/8/2024 12:57	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 12:57	24702	FLND_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
6/8/2024 12:57	17802	GILB_T1	1	2	1	0.3	0.6	0.3	0.13	0.14	0	0	0	0	0	0
6/8/2024 12:57	24701	FLND_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
6/8/2024 12:58	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 12:58	41802	GOCI_T2	0	8	8	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 12:58	41801	GOCI_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
6/8/2024 12:58	56801	BENV_T1	22	24	2	0.95	0.94	-0.01	-1.57	-1.57	4	4	0	2400	2400	0
6/8/2024 12:59	52403	GRPA_T2	1	1	0	0.1	0	-0.1	-0.34	-0.33	0	0	0	0	0	0
6/8/2024 13:00	42903	MIDD_T2	2	1	-1	0.15	0.1	-0.05	-0.04	0.15	0	0	0	0	0	0
6/8/2024 13:01	64201	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/8/2024 13:01	52004	LING_T2	0	0	0	0	0	0	0.21	-0.02	0	0	0	0	0	0
6/8/2024 13:01	52401	GRPA_T2	0	1	1	0	0	0	-0.35	-0.34	0	0	0	0	0	0
6/8/2024 13:01	64204	KINZ_T1	2	2	0	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
6/8/2024 13:01	64203	KINZ_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/8/2024 13:01	41801	GOCI_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
6/8/2024 13:01	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	-0.34	-0.33	0	0	0	0	0	0
6/8/2024 13:02	52004	LING_T2	0	0	0	0	0	0	0.21	-0.02	0	0	0	0	0	0
6/8/2024 13:03	52004	LING_T2	0	0	0	0	0	0	0.21	-0.02	0	0	0	0	0	0
6/8/2024 13:04	28403	HART_T2	0	0	0	0	0	0	-0.84	-0.83	1	1	0	900	900	0
6/8/2024 13:05	65803	RTWN_T2	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
6/8/2024 13:05	14601	SWHI_T1	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
6/8/2024 13:05	65802	RTWN_T2	1	1	0	0.6	0.2	-0.4	0.18	0.19	0	0	0	0	0	0
6/8/2024 13:07	58002	WCAR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/8/2024 13:07	58006	WCAR_T2	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
6/8/2024 13:08	56801	BENV_T1	24	16	-8	0.94	0.88	-0.06	-0.79	-0.79	2	2	0	1200	1200	0
6/8/2024 13:08	56803	BENV_T1	0	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0
6/8/2024 13:08	59202	THOM_T1	4	4	0	0.35	0.53	0.18	0	0	0	0	0	0	0	0
6/8/2024 13:08	59201	THOM_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/8/2024 13:10	15702	TANN_T2	0	0	0	0	0	0	-0.26	-0.19	0	0	0	0	0	0
6/8/2024 13:10	15703	TANN_T2	1	1	0	6.6	6.1	-0.5	0	0	0	0	0	0	0	0
6/8/2024 13:10	10805	CHHI_T2	1	1	0	8.5	8	-0.5	-1.22	-1.26	1	1	0	600	600	0
6/8/2024 13:10	56803	BENV_T1	0	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/8/2024 13:10	56801	BENV_T1	24	16	-8	0.94	0.88	-0.06	-1.57	-1.58	4	4	0	2400	2400	0
6/8/2024 13:11	56803	BENV_T1	0	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0
6/8/2024 13:11	56801	BENV_T1	24	16	-8	0.94	0.88	-0.06	-0.79	-0.79	2	2	0	1200	1200	0
6/8/2024 13:12	56802	BENV_T2	0	0	0	0	0	0	-1.14	-1.13	0	0	0	0	0	0
6/8/2024 13:13	56801	BENV_T1	24	16	-8	0.94	0.88	-0.06	-0.79	-0.79	2	2	0	1200	1200	0
6/8/2024 13:13	41801	GOCI_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
6/8/2024 13:13	56803	BENV_T1	0	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0
6/8/2024 13:13	46002	BERW_T2	0	0	0	0	0	0	-1.27	-1.24	1	1	0	900	900	0
6/8/2024 13:14	22904	HARW_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
6/8/2024 13:14	22905	HARW_T1	11	1	-10	0.64	0	-0.64	0	0	0	0	0	0	0	0
6/8/2024 13:14	56801	BENV_T1	24	16	-8	0.94	0.88	-0.06	-0.79	-0.79	2	2	0	1200	1200	0
6/8/2024 13:14	56803	BENV_T1	0	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0
6/8/2024 13:14	22903	HARW_T1	21	21	0	1.86	0.92	-0.94	0	0	0	0	0	0	0	0
6/8/2024 13:14	61001	DONV_T1	1	1	0	1.2	1.2	0	0.22	0.23	0	0	0	0	0	0
6/8/2024 13:17	52002	LING_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 13:17	52004	LING_T2	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
6/8/2024 13:17	41801	GOCI_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/8/2024 13:18	52002	LING_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 13:19	66502	SMAN_T2	0	4	4	0	0.28	0.28	0.02	0.03	0	0	0	0	0	0
6/8/2024 13:19	64101	REFR_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
6/8/2024 13:19	66504	SMAN_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/8/2024 13:19	66505	SMAN_T2	1	3	2	0.7	1.05	0.35	0	0	0	0	0	0	0	0
6/8/2024 13:20	13606	RICH_T2	1	0	-1	7.5	7.3	-0.2	1.04	1.04	0	0	0	0	0	0
6/8/2024 13:20	14103	TRUM_T2	4	1	-3	0.58	0	-0.58	0	0	0	0	0	0	0	0
6/8/2024 13:20	14101	TRUM_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
6/8/2024 13:21	54601	SUMM_T2	0	0	0	0	0	0	-1.57	-1.58	2	2	0	2100	2100	0
6/8/2024 13:22	66502	SMAN_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
6/8/2024 13:22	66505	SMAN_T2	1	3	2	0.7	1.05	0.35	0	0	0	0	0	0	0	0
6/8/2024 13:22	66504	SMAN_T2	0	1	1	0	0.6	0.6	-1.14	-1.2	1	1	0	1200	1200	0
6/8/2024 13:23	49803	UNIV_T1	0	0	0	0	0	0	-0.71	-0.63	0	0	0	0	0	0
6/8/2024 13:24	59202	THOM_T1	4	4	0	0.53	0.38	-0.15	0	0	0	0	0	0	0	0
6/8/2024 13:24	59201	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/8/2024 13:25	61801	EELI_T2	0	0	0	0	0	0	-0.94	-0.94	2	2	0	1200	1200	0
6/8/2024 13:25	61802	EELI_T2	4	6	2	0.28	0.32	0.04	0	0	0	0	0	0	0	0
6/8/2024 13:26	60102	COCA_T1	0	0	0	0	0	0	0.08	-0.12	2	2	0	1200	1200	0
6/8/2024 13:26	60101	COCA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/8/2024 13:26	63304	GREE_T1	0	0	0	0	0	0	-2.41	-2.36	1	1	0	1200	1200	0
6/8/2024 13:27	41801	GOCI_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/8/2024 13:28	26704	HEML_T2	0	18	18	0	0.11	0.11	-0.75	-0.75	1	1	0	1200	1200	0
6/8/2024 13:28	41801	GOCI_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/8/2024 13:29	26703	HEML_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	600	600	0
6/8/2024 13:29	17401	FOHI_T1	0	0	0	0	0	0	-1.71	-1.71	0	0	0	0	0	0
6/8/2024 13:29	41801	GOCI_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/8/2024 13:30	45003	LIME_2	1	1	0	2.9	2.6	-0.3	0.3	0.3	0	0	0	0	0	0
6/8/2024 13:30	59001	MIFF_T1	3	3	0	1.23	1.53	0.3	0	0	0	0	0	0	0	0
6/8/2024 13:30	45002	LIME_2	1	1	0	4.5	4.6	0.1	0	0	0	0	0	0	0	0
6/8/2024 13:30	59003	MIFF_T1	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
6/8/2024 13:30	14205	EALL_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
6/8/2024 13:31	63304	GREE_T1	0	0	0	0	0	0	-2.41	-2.36	1	1	0	1200	1200	0
6/8/2024 13:32	10102	ALLE_T2	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
6/8/2024 13:32	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 13:33	59301	MCAL_T1	0	0	0	0	0	0	-1.27	-1.26	0	0	0	0	0	0
6/8/2024 13:33	59302	MCAL_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/8/2024 13:34	44203	POIN_T2	2	2	0	0.75	0.6	-0.15	0.04	0.1	1	1	0	900	900	0
6/8/2024 13:35	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 13:35	40302	TAMA_T3	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
6/8/2024 13:35	65603	QVIL_T2	0	0	0	0	0	0	-0.58	-0.57	0	0	0	0	0	0
6/8/2024 13:36	65802	RTWN_T2	1	0	-1	0.2	0	-0.2	0.21	0.22	0	0	0	0	0	0
6/8/2024 13:36	65803	RTWN_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/8/2024 13:37	56803	BENV_T1	1	1	0	3	2.6	-0.4	0	0	0	0	0	0	0	0
6/8/2024 13:37	56801	BENV_T1	14	19	5	0.9	0.85	-0.05	-0.79	-0.78	2	2	0	1200	1200	0
6/8/2024 13:37	67001	STHI_T2	0	0	0	0	0	0	0.88	0.9	0	0	0	0	0	0
6/8/2024 13:38	57006	WHHI_T2	0	0	0	0	0	0	0.07	0.22	1	1	0	600	600	0
6/8/2024 13:38	57004	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 13:38	54602	SUMM_T2	0	0	0	0	0	0	-2.14	-2.15	1	1	0	600	600	0
6/8/2024 13:40	56801	BENV_T1	14	19	5	0.9	0.85	-0.05	-0.79	-0.78	2	2	0	1200	1200	0
6/8/2024 13:40	56803	BENV_T1	1	1	0	3	2.6	-0.4	0	0	0	0	0	0	0	0
6/8/2024 13:40	60103	COCA_T2	0	0	0	0	0	0	0.49	0.45	1	1	0	900	900	0
6/8/2024 13:41	10805	CHHI_T2	1	1	0	8	7.9	-0.1	-1.24	-1.25	1	1	0	600	600	0
6/8/2024 13:41	67904	WNHO_T1	0	0	0	0	0	0	-1.98	-1.98	2	2	0	2100	2100	0
6/8/2024 13:42	56801	BENV_T1	14	19	5	0.9	0.85	-0.05	-0.79	-0.78	2	2	0	1200	1200	0
6/8/2024 13:42	56803	BENV_T1	1	1	0	3	2.6	-0.4	0	0	0	0	0	0	0	0
6/8/2024 13:43	22602	KIMB_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
6/8/2024 13:43	22601	KIMB_T1	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
6/8/2024 13:45	60101	COCA_T1	1	0	-1	0.4	0	-0.4	0.54	0.65	0	0	0	0	0	0
6/8/2024 13:46	63501	HEID_TBK1-2	5	3	-2	0.2	0.23	0.03	-0.07	0.02	1	1	0	900	900	0
6/8/2024 13:48	12704	MACU_T1	0	0	0	0	0	0	-1.2	-1.2	1	1	0	600	600	0
6/8/2024 13:49	44203	POIN_T2	2	2	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
6/8/2024 13:49	44202	POIN_T2	0	0	0	0	0	0	-0.8	-0.8	1	1	0	1200	1200	0
6/8/2024 13:50	67605	WARW_T1	3	3	0	0.57	0.17	-0.4	-1	-0.99	0	0	0	0	0	0
6/8/2024 13:51	43108	SMIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/8/2024 13:51	43102	SMIL_T2	0	0	0	0	0	0	-0.63	-0.62	1	1	0	600	600	0
6/8/2024 13:51	43103	SMIL_T2	6	4	-2	0.37	0.43	0.06	0	0	0	0	0	0	0	0
6/8/2024 13:51	58006	WCAR_T2	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
6/8/2024 13:51	44203	POIN_T2	2	2	0	0.6	0.4	-0.2	-0.06	0.25	1	1	0	900	900	0
6/8/2024 13:53	56801	BENV_T1	19	18	-1	0.82	0.74	-0.08	-1.56	-1.55	4	4	0	2400	2400	0
6/8/2024 13:53	56803	BENV_T1	1	1	0	2.6	0	-2.6	0	0	0	0	0	0	0	0
6/8/2024 13:53	67904	WNHO_T1	0	0	0	0	0	0	-1.98	-1.97	2	2	0	2100	2100	0
6/8/2024 13:54	67904	WNHO_T1	0	0	0	0	0	0	-1.98	-1.97	2	2	0	2100	2100	0
6/8/2024 13:54	67204	TEHI_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
6/8/2024 13:54	67202	TEHI_T2	0	0	0	0	0	0	-0.42	-0.43	1	1	0	900	900	0
6/8/2024 13:55	56801	BENV_T1	19	18	-1	0.82	0.74	-0.08	-1.56	-1.55	4	4	0	2400	2400	0
6/8/2024 13:55	56803	BENV_T1	1	1	0	2.6	0	-2.6	0	0	0	0	0	0	0	0
6/8/2024 13:56	67903	WNHO_T1	0	0	0	0	0	0	1.31	1.33	1	1	0	1200	1200	0
6/8/2024 13:56	56801	BENV_T1	19	18	-1	0.82	0.74	-0.08	-0.78	-0.78	2	2	0	1200	1200	0
6/8/2024 13:56	24702	RLND_T2	2	3	1	0.25	0.7	0.45	-0.22	-0.44	1	1	0	1200	1200	0
6/8/2024 13:56	16401	MOPO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/8/2024 13:56	56803	BENV_T1	1	1	0	2.6	0	-2.6	0	0	0	0	0	0	0	0
6/8/2024 13:56	16406	MOPO_T1	0	0	0	0	0	0	-1.3	-1.32	2	2	0	2100	2100	0
6/8/2024 13:57	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/8/2024 13:57	56803	BENV_T1	1	1	0	2.6	0	-2.6	0	0	0	0	0	0	0	0
6/8/2024 13:57	61002	DONV_T2	0	0	0	0	0	0	-0.88	-0.89	2	2	0	1200	1200	0
6/8/2024 13:57	41601	CLEV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/8/2024 13:57	56801	BENV_T1	19	18	-1	0.82	0.74	-0.08	-2.35	-2.33	6	6	0	3600	3600	0
6/8/2024 14:00	52004	LING_T2	0	1	1	0	1.3	1.3	-0.04	-0.04	0	0	0	0	0	0
6/8/2024 14:00	52002	LING_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/8/2024 14:01	53902	HALI_T2	1	3	2	4.9	2.1	-2.8	-0.77	-0.76	0	0	0	0	0	0
6/8/2024 14:01	53903	HALI_T2	3	7	4	0.77	0.56	-0.21	0	0	0	0	0	0	0	0
6/8/2024 14:04	27605	PIRI_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
6/8/2024 14:05	67201	TEHI_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/8/2024 14:05	67203	TEHI_T1	0	1	1	0	0.2	0.2	0.99	0.99	1	1	0	900	900	0
6/8/2024 14:06	67201	TEHI_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/8/2024 14:06	67203	TEHI_T1	0	1	1	0	0.2	0.2	0.99	0.99	1	1	0	900	900	0
6/8/2024 14:06	64101	REFR_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
6/8/2024 14:06	16503	STRO_T2	2	1	-1	0.25	0.7	0.45	-0.59	-0.66	1	1	0	1200	1200	0
6/8/2024 14:07	43102	SMIL_T2	0	0	0	0	0	0	-0.62	-0.61	1	1	0	600	600	0
6/8/2024 14:07	65604	QVIL_T2	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
6/8/2024 14:07	43103	SMIL_T2	4	4	0	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
6/8/2024 14:08	10602	BLGL_T2	1	1	0	0.1	0.4	0.3	0.43	0.45	0	0	0	0	0	0
6/8/2024 14:09	20401	ASHF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/8/2024 14:09	20403	ASHF_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
6/8/2024 14:09	12703	MACU_T2	0	0	0	0	0	0	-0.8	-0.78	0	0	0	0	0	0
6/8/2024 14:09	20402	ASHF_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/8/2024 14:10	61802	EELI_T2	7	8	1	0.31	0.22	-0.09	-0.48	-0.47	0	0	0	0	0	0
6/8/2024 14:10	60101	COCA_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
6/8/2024 14:11	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 14:11	55101	WERT_T1	0	0	0	0	0	0	-1.19	-1.18	2	2	0	1500	1500	0
6/8/2024 14:13	61802	EELI_T2	7	8	1	0.31	0.22	-0.09	-0.97	-0.94	0	0	0	0	0	0
6/8/2024 14:13	51604	DUKE_T2	0	1	1	0	0.2	0.2	-2.29	-2.28	1	1	0	900	900	0
6/8/2024 14:14	61701	ELIZ_T1	1	2	1	2.1	1.25	-0.85	0.72	0.65	0	0	0	0	0	0
6/8/2024 14:16	12606	MACA_T1	0	0	0	0	0	0	0.17	0.19	2	2	0	1800	1800	0
6/8/2024 14:16	12604	MACA_T1	2	1	-1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
6/8/2024 14:16	12601	MACA_T1	2	1	-1	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
6/8/2024 14:17	47001	HUGH_T2	0	0	0	0	0	0	-1.16	-1.15	0	0	0	0	0	0
6/8/2024 14:17	52502	PROG_T2	1	2	1	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
6/8/2024 14:17	52503	PROG_T2	0	0	0	0	0	0	-0.26	-0.3	1	1	0	900	900	0
6/8/2024 14:18	52503	PROG_T2	0	0	0	0	0	0	-0.26	-0.3	1	1	0	900	900	0
6/8/2024 14:18	52502	PROG_T2	1	2	1	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
6/8/2024 14:19	52503	PROG_T2	0	0	0	0	0	0	-0.53	-0.6	2	2	0	1800	1800	0
6/8/2024 14:19	52502	PROG_T2	1	2	1	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
6/8/2024 14:20	52503	PROG_T2	0	0	0	0	0	0	-0.26	-0.3	1	1	0	900	900	0
6/8/2024 14:20	52502	PROG_T2	1	2	1	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
6/8/2024 14:21	42201	SHEN_T2	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
6/8/2024 14:22	58006	WCAR_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
6/8/2024 14:22	14102	TRUM_T2	0	2	2	0	0.4	0.4	-0.57	-0.64	3	3	0	2400	2400	0
6/8/2024 14:22	14103	TRUM_T2	0	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0
6/8/2024 14:23	42201	SHEN_T2	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
6/8/2024 14:24	66703	STRA_T1	0	1	1	0	0.1	0.1	-0.77	-0.78	0	0	0	0	0	0
6/8/2024 14:27	44505	HAMI_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
6/8/2024 14:27	53901	HALI_T2	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
6/8/2024 14:27	53903	HALI_T2	5	7	2	0.68	0.47	-0.21	0	0	0	0	0	0	0	0
6/8/2024 14:27	63305	GREE_T1	0	0	0	0	0	0	-2.1	-2.07	1	1	0	900	900	0
6/8/2024 14:27	60201	ATGL_T2	0	0	0	0	0	0	0.26	0.24	1	1	0	300	300	0
6/8/2024 14:27	41502	FAIR_T2	0	0	0	0	0	0	-1.54	-1.54	1	1	0	900	900	0
6/8/2024 14:27	53902	HALI_T2	3	2	-1	2.1	2.6	0.5	0	0	0	0	0	0	0	0
6/8/2024 14:27	44502	HAMI_T2	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
6/8/2024 14:28	44502	HAMI_T2	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
6/8/2024 14:28	44505	HAMI_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
6/8/2024 14:28	63305	GREE_T1	0	0	0	0	0	0	-2.1	-2.07	1	1	0	900	900	0
6/8/2024 14:33	52502	PROG_T2	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/8/2024 14:33	52503	PROG_T2	0	0	0	0	0	0	-0.6	-0.35	2	2	0	1800	1800	0
6/8/2024 14:33	47001	HUGH_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
6/8/2024 14:33	25402	LAHA_T2	1	2	1	0.5	0.75	0.25	-0.22	-0.38	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/8/2024 14:34	25402	LAHA_T2	1	2	1	0.5	0.75	0.25	-0.22	-0.38	0	0	0	0	0	0
6/8/2024 14:37	52502	PROG_T2	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/8/2024 14:37	52503	PROG_T2	0	0	0	0	0	0	-0.17	-0.22	1	1	0	900	900	0
6/8/2024 14:37	42601	TUSC_T1	0	0	0	0	0	0	-0.22	-0.32	2	2	0	1800	1800	0
6/8/2024 14:38	64101	REFR_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
6/8/2024 14:38	58006	WCAR_T2	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
6/8/2024 14:38	13701	SCHN_T2	0	0	0	0	0	0	0.34	0.34	1	1	0	600	600	0
6/8/2024 14:39	56803	BENV_T1	0	3	3	0	1.4	1.4	0	0	0	0	0	0	0	0
6/8/2024 14:39	56801	BENV_T1	18	15	-3	0.77	0.76	-0.01	-0.76	-0.75	2	2	0	1200	1200	0
6/8/2024 14:40	43103	SMIL_T2	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/8/2024 14:40	43108	SMIL_T2	0	0	0	0	0	0	-1.14	-1.08	1	1	0	1200	1200	0
6/8/2024 14:40	56803	BENV_T1	0	3	3	0	1.4	1.4	0	0	0	0	0	0	0	0
6/8/2024 14:40	56801	BENV_T1	18	15	-3	0.77	0.76	-0.01	-1.52	-1.51	4	4	0	2400	2400	0
6/8/2024 14:42	56801	BENV_T1	18	15	-3	0.77	0.76	-0.01	-0.76	-0.75	2	2	0	1200	1200	0
6/8/2024 14:42	56803	BENV_T1	0	3	3	0	1.4	1.4	0	0	0	0	0	0	0	0
6/8/2024 14:43	56803	BENV_T1	0	3	3	0	1.4	1.4	0	0	0	0	0	0	0	0
6/8/2024 14:43	56801	BENV_T1	18	15	-3	0.77	0.76	-0.01	-1.52	-1.51	4	4	0	2400	2400	0
6/8/2024 14:44	45501	DERR_T2	2	2	0	0.15	0.35	0.2	-0.44	-0.39	2	2	0	1800	1800	0
6/8/2024 14:44	45902	AUBU_T1	5	17	12	0.7	0.54	-0.16	-0.94	-0.93	1	1	0	600	600	0
6/8/2024 14:46	12604	MACA_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
6/8/2024 14:48	44203	POIN_T2	0	0	0	0	0	0	0.1	0.06	1	1	0	900	900	0
6/8/2024 14:48	12604	MACA_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
6/8/2024 14:50	12604	MACA_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
6/8/2024 14:53	67201	TEHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/8/2024 14:53	67203	TEHI_T1	0	0	0	0	0	0	0.99	0.99	1	1	0	900	900	0
6/8/2024 14:54	45902	AUBU_T1	3	17	14	0.67	0.54	-0.13	-0.93	-0.92	1	1	0	600	600	0
6/8/2024 14:55	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 14:55	21206	ECAR_T2	1	1	0	7.8	7.7	-0.1	1.4	1.41	0	0	0	0	0	0
6/8/2024 14:56	56803	BENV_T1	3	3	0	0.57	1.3	0.73	0	0	0	0	0	0	0	0
6/8/2024 14:56	56801	BENV_T1	15	14	-1	0.68	0.64	-0.04	-0.75	-0.75	2	2	0	1200	1200	0
6/8/2024 14:58	44504	HAMI_T2	0	0	0	0	0	0	-1.04	-1.01	0	0	0	0	0	0
6/8/2024 14:58	45902	AUBU_T1	3	17	14	0.67	0.54	-0.13	0	0	0	0	0	0	0	0
6/8/2024 14:58	44502	HAMI_T2	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
6/8/2024 14:58	45901	AUBU_T1	0	0	0	0	0	0	1.11	1.14	0	0	0	0	0	0
6/8/2024 14:59	21203	ECAR_T1	11	14	3	0.35	0.36	0.01	-0.39	-0.39	0	0	0	0	0	0
6/8/2024 14:59	47001	HUGH_T2	0	0	0	0	0	0	-1.12	-1.1	0	0	0	0	0	0
6/8/2024 15:04	48302	ORWI_T2	2	2	0	0.75	0.85	0.1	-0.37	-0.4	0	0	0	0	0	0
6/8/2024 15:05	13503	MCMI_T2	0	1	1	0	0.6	0.6	0.02	0.03	0	0	0	0	0	0
6/8/2024 15:06	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/8/2024 15:08	12601	MACA_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
6/8/2024 15:08	12603	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 15:08	12604	MACA_T1	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
6/8/2024 15:08	12602	MACA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/8/2024 15:11	16102	BING_T2	5	5	0	0.34	0.48	0.14	0.68	0.68	0	0	0	0	0	0
6/8/2024 15:12	56801	BENV_T1	14	15	1	0.63	0.53	-0.1	-0.75	-0.74	2	2	0	1200	1200	0
6/8/2024 15:12	56803	BENV_T1	1	3	2	2.6	0	-2.6	0	0	0	0	0	0	0	0
6/8/2024 15:13	22602	KIMB_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
6/8/2024 15:13	22601	KIMB_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
6/8/2024 15:14	45801	HEGI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/8/2024 15:15	52002	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 15:15	52004	LING_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
6/8/2024 15:17	64203	KINZ_T1	0	0	0	0	0	0	0.03	0.03	1	1	0	600	600	0
6/8/2024 15:17	60502	NMAN_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
6/8/2024 15:17	60501	NMAN_T2	3	3	0	4.2	4.17	-0.03	0	0	0	0	0	0	0	0
6/8/2024 15:17	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/8/2024 15:17	60504	NMAN_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/8/2024 15:20	57303	MOAL_T2	1	1	0	8.5	8.3	-0.2	0	0	0	0	0	0	0	0
6/8/2024 15:20	57304	MOAL_T2	0	0	0	0	0	0	-0.04	0.06	0	0	0	0	0	0
6/8/2024 15:20	57306	MOAL_T2	1	1	0	9	8.2	-0.8	0	0	0	0	0	0	0	0
6/8/2024 15:24	16301	ALPA_T1	1	0	-1	0.6	0	-0.6	0.18	0.2	0	0	0	0	0	0
6/8/2024 15:28	41504	FAIR_T2	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
6/8/2024 15:29	52403	GRPA_T2	2	2	0	0.65	0	-0.65	0	0	0	0	0	0	0	0
6/8/2024 15:29	52404	GRPA_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
6/8/2024 15:31	46506	LOHA_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
6/8/2024 15:36	43103	SMIL_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
6/8/2024 15:36	43108	SMIL_T2	0	0	0	0	0	0	-1.07	-1.06	1	1	0	1200	1200	0
6/8/2024 15:37	67602	WARW_T2	0	0	0	0	0	0	0.02	0.03	2	2	0	1500	1500	0
6/8/2024 15:38	56801	BENV_T1	14	6	-8	0.54	0.45	-0.09	-0.73	-0.73	2	2	0	1200	1200	0
6/8/2024 15:38	56803	BENV_T1	0	5	5	0	3.4	3.4	0	0	0	0	0	0	0	0
6/8/2024 15:38	67602	WARW_T2	0	0	0	0	0	0	0.02	0.03	2	2	0	1500	1500	0
6/8/2024 15:39	67602	WARW_T2	0	0	0	0	0	0	0.02	0.03	2	2	0	1500	1500	0
6/8/2024 15:39	67605	WARW_T1	1	1	0	0.4	0.4	0	-1.03	-1.03	0	0	0	0	0	0
6/8/2024 15:40	56801	BENV_T1	14	6	-8	0.54	0.45	-0.09	-1.47	-1.45	4	4	0	2400	2400	0
6/8/2024 15:40	56803	BENV_T1	0	5	5	0	3.4	3.4	0	0	0	0	0	0	0	0
6/8/2024 15:40	67605	WARW_T1	1	1	0	0.4	0.4	0	-1.03	-1.03	0	0	0	0	0	0
6/8/2024 15:40	67602	WARW_T2	0	0	0	0	0	0	0.02	0.03	2	2	0	1500	1500	0
6/8/2024 15:41	56803	BENV_T1	0	5	5	0	3.4	3.4	0	0	0	0	0	0	0	0
6/8/2024 15:41	40201	BEGA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/8/2024 15:41	56801	BENV_T1	14	6	-8	0.54	0.45	-0.09	-0.73	-0.73	2	2	0	1200	1200	0
6/8/2024 15:42	56803	BENV_T1	0	5	5	0	3.4	3.4	0	0	0	0	0	0	0	0
6/8/2024 15:42	56801	BENV_T1	14	6	-8	0.54	0.45	-0.09	-1.47	-1.45	4	4	0	2400	2400	0
6/8/2024 15:43	56801	BENV_T1	14	6	-8	0.54	0.45	-0.09	-1.47	-1.45	4	4	0	2400	2400	0
6/8/2024 15:43	56803	BENV_T1	0	5	5	0	3.4	3.4	0	0	0	0	0	0	0	0
6/8/2024 15:43	67602	WARW_T2	0	0	0	0	0	0	0.02	0.03	2	2	0	1500	1500	0
6/8/2024 15:50	12606	MACA_T1	0	0	0	0	0	0	0.13	0.14	1	1	0	900	900	0
6/8/2024 15:52	14705	TREX_T1	0	1	1	0	0	0	0.15	0.16	0	0	0	0	0	0
6/8/2024 15:53	67605	WARW_T1	1	1	0	0.4	0.4	0	-1.03	-1.02	0	0	0	0	0	0
6/8/2024 15:54	56801	BENV_T1	6	5	-1	0.4	0.52	0.12	-2.18	-2.16	6	6	0	3600	3600	0
6/8/2024 15:54	56803	BENV_T1	5	1	-4	1.3	0	-1.3	0	0	0	0	0	0	0	0
6/8/2024 15:55	10805	OHHI_T2	1	1	0	7.9	8.1	0.2	-1.19	-1.23	1	1	0	600	600	0
6/8/2024 15:55	10801	OHHI_T1	2	2	0	0.2	0.75	0.55	-0.92	-1.52	2	3	1	1500	2100	600
6/8/2024 15:56	56801	BENV_T1	6	5	-1	0.4	0.52	0.12	-2.18	-2.16	6	6	0	3600	3600	0
6/8/2024 15:56	56803	BENV_T1	5	1	-4	1.3	0	-1.3	0	0	0	0	0	0	0	0
6/8/2024 15:57	10805	OHHI_T2	1	1	0	7.9	8.1	0.2	-2.39	-2.46	2	2	0	1200	1200	0
6/8/2024 15:57	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 15:58	56801	BENV_T1	6	5	-1	0.4	0.52	0.12	-1.45	-1.44	4	4	0	2400	2400	0
6/8/2024 15:58	56803	BENV_T1	5	1	-4	1.3	0	-1.3	0	0	0	0	0	0	0	0
6/8/2024 16:00	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 16:01	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 16:02	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 16:10	67602	WARW_T2	0	0	0	0	0	0	0.03	0.04	2	2	0	1500	1500	0
6/8/2024 16:16	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 16:17	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 16:18	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 16:19	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/8/2024 16:20	64101	REFR_T1	0	10	10	0	0	0	0.61	0.63	0	0	0	0	0	0
6/8/2024 16:21	24602	VARD_T2	449	484	35	0.69	0.82	0.13	0	0	0	0	0	0	0	0
6/8/2024 16:21	64101	REFR_T1	0	10	10	0	0	0	0.63	0.64	0	0	0	0	0	0
6/8/2024 16:21	24603	VARD_T2	14	18	4	0.3	0.31	0.01	-0.05	-0.05	0	0	0	0	0	0
6/8/2024 16:21	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 16:22	24603	VARD_T2	14	18	4	0.3	0.31	0.01	0	0	0	0	0	0	0	0
6/8/2024 16:22	24602	VARD_T2	449	484	35	0.69	0.82	0.13	-0.96	-0.96	0	0	0	0	0	0
6/8/2024 16:22	64101	REFR_T1	0	10	10	0	0	0	0.31	0.32	0	0	0	0	0	0
6/8/2024 16:23	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 16:23	56803	BENV_T1	0	1	1	0	0	0	0.05	0.05	1	1	0	600	600	0
6/8/2024 16:23	64101	REFR_T1	0	10	10	0	0	0	0.31	0.32	0	0	0	0	0	0
6/8/2024 16:23	56801	BENV_T1	5	11	6	0.52	0.6	0.08	0	0	0	0	0	0	0	0
6/8/2024 16:25	60201	ATGL_T2	0	0	0	0	0	0	0.41	0.46	1	1	0	300	300	0
6/8/2024 16:25	64101	REFR_T1	0	10	10	0	0	0	0.63	0.64	0	0	0	0	0	0
6/8/2024 16:32	52002	LING_T2	0	15	15	0	0.1	0.1	0.99	0.96	0	0	0	0	0	0
6/8/2024 16:33	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 16:33	52002	LING_T2	0	15	15	0	0.1	0.1	0.5	0.48	0	0	0	0	0	0
6/8/2024 16:37	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 16:40	61703	ELIZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 16:40	61701	ELIZ_T1	1	1	0	1.6	1.6	0	0.78	0.74	0	0	0	0	0	0
6/8/2024 16:41	61703	ELIZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 16:41	61701	ELIZ_T1	1	1	0	1.6	1.6	0	0.78	0.74	0	0	0	0	0	0
6/8/2024 16:42	61702	ELIZ_T2	0	0	0	0	0	0	-2.3	-2.3	2	2	0	1500	1500	0
6/8/2024 16:43	61701	ELIZ_T1	1	1	0	1.6	1.6	0	0.78	0.74	0	0	0	0	0	0
6/8/2024 16:43	61703	ELIZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 16:57	61701	ELIZ_T1	1	1	0	1.4	1.6	0.2	0.74	0.72	0	0	0	0	0	0
6/8/2024 16:57	61703	ELIZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/8/2024 16:58	45802	HEGI_T2	48	48	0	1.83	1.94	0.11	0	0	0	0	0	0	0	0
6/8/2024 16:59	28701	HAML_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/8/2024 16:59	28704	HAML_T2	1	1	0	0.4	0.5	0.1	0.01	0.01	0	0	0	0	0	0
6/8/2024 17:00	52004	LING_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
6/8/2024 17:00	52002	LING_T2	15	2	-13	0.32	0	-0.32	0	0	0	0	0	0	0	0
6/8/2024 17:07	52403	GRPA_T2	6	10	4	0.88	1.02	0.14	-0.12	-0.13	0	0	0	0	0	0
6/8/2024 17:07	52404	GRPA_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/8/2024 17:07	52401	GRPA_T2	1	3	2	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/8/2024 17:07	52402	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 17:13	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 17:13	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/8/2024 17:14	52403	GRPA_T2	6	10	4	0.88	1.02	0.14	-0.12	-0.13	0	0	0	0	0	0
6/8/2024 17:14	52401	GRPA_T2	1	3	2	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/8/2024 17:14	52402	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 17:14	52404	GRPA_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/8/2024 17:15	42901	MIDD_T2	0	34	34	0	0.15	0.15	0	0	0	0	0	0	0	0
6/8/2024 17:15	42903	MIDD_T2	2	23	21	0.85	0.49	-0.36	0	0	0	0	0	0	0	0
6/8/2024 17:15	42902	MIDD_T2	0	45	45	0	0.32	0.32	-0.45	-0.36	0	0	0	0	0	0
6/8/2024 17:17	52401	GRPA_T2	2	1	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/8/2024 17:17	52403	GRPA_T2	8	13	5	0.95	0.87	-0.08	-0.12	-0.13	0	0	0	0	0	0
6/8/2024 17:17	52402	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 17:18	42901	MIDD_T2	0	34	34	0	0.15	0.15	0	0	0	0	0	0	0	0
6/8/2024 17:18	42902	MIDD_T2	0	45	45	0	0.32	0.32	-0.9	-0.73	0	0	0	0	0	0
6/8/2024 17:18	52002	LING_T2	2	0	-2	0.35	0	-0.35	0.5	-0.31	0	1	1	0	900	900
6/8/2024 17:18	42903	MIDD_T2	2	23	21	0.85	0.49	-0.36	0	0	0	0	0	0	0	0
6/8/2024 17:22	67103	SPRI_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
6/8/2024 17:24	43101	SMIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/8/2024 17:24	43104	SMIL_T2	0	0	0	0	0	0	-0.65	-0.65	1	1	0	300	300	0
6/8/2024 17:25	61702	ELIZ_T2	0	0	0	0	0	0	-2.3	-2.32	2	2	0	1500	1500	0
6/8/2024 17:30	12006	HATF_T1	0	0	0	0	0	0	1.13	1.16	0	0	0	0	0	0
6/8/2024 17:30	12002	HATF_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/8/2024 17:30	63401	HONY_T1	0	0	0	0	0	0	1.31	1.29	0	0	0	0	0	0
6/8/2024 17:30	63404	HONY_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 17:32	63401	HONY_T1	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
6/8/2024 17:32	63404	HONY_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 17:34	61701	ELIZ_T1	1	1	0	1.5	1.4	-0.1	0.76	0.87	0	0	0	0	0	0
6/8/2024 17:38	67103	SPRI_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
6/8/2024 17:44	61701	ELIZ_T1	1	1	0	1.5	1.4	-0.1	0.87	0.78	0	0	0	0	0	0
6/8/2024 17:52	65901	SAKR_T2	1	1	0	7.2	7	-0.2	0	0	0	0	0	0	0	0
6/8/2024 17:52	65902	SAKR_T2	1	1	0	0.3	0.6	0.3	-0.35	-0.31	1	1	0	300	300	0
6/8/2024 18:07	59101	WALK_T2	0	0	0	0	0	0	0.79	0.57	2	2	0	1200	1200	0
6/8/2024 18:09	16102	BING_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
6/8/2024 18:09	16103	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 18:16	12601	MACA_T1	0	0	0	0	0	0	1.17	1.17	0	0	0	0	0	0
6/8/2024 18:24	42701	AUGU_T1	83	82	-1	1.66	1.38	-0.28	0	0	0	0	0	0	0	0
6/8/2024 18:24	10205	ALLE_T3	2	0	-2	1.35	0	-1.35	0	0	0	0	0	0	0	0
6/8/2024 18:24	10103	ALLE_T3	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/8/2024 18:24	10105	ALLE_T3	15	12	-3	0.61	0.59	-0.02	0	0	0	0	0	0	0	0
6/8/2024 18:24	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 18:29	21203	ECAR_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
6/8/2024 18:34	13501	MCMI_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
6/8/2024 18:37	44301	BEAV_T2	2	4	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/8/2024 18:37	44302	BEAV_T2	11	28	17	0.19	0.16	-0.03	0.51	0.51	0	0	0	0	0	0
6/8/2024 18:38	44301	BEAV_T2	2	4	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/8/2024 18:38	44302	BEAV_T2	11	28	17	0.19	0.16	-0.03	0.51	0.51	0	0	0	0	0	0
6/8/2024 18:39	44301	BEAV_T2	2	4	2	0.2	0.4	0.2	-0.11	-0.11	1	1	0	600	600	0
6/8/2024 18:39	44302	BEAV_T2	11	28	17	0.19	0.16	-0.03	0	0	0	0	0	0	0	0
6/8/2024 18:40	44301	BEAV_T2	2	4	2	0.2	0.4	0.2	-0.11	-0.11	1	1	0	600	600	0
6/8/2024 18:40	44302	BEAV_T2	11	28	17	0.19	0.16	-0.03	0.51	0.51	0	0	0	0	0	0
6/8/2024 18:49	22602	KIMB_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
6/8/2024 18:52	10102	ALLE_T2	1	1	0	7.9	7.7	-0.2	0	0	0	0	0	0	0	0
6/8/2024 18:52	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 19:01	64701	LITI_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
6/8/2024 19:05	54001	SDLE_T1	1	1	0	0.3	0.2	-0.1	0	0	2	2	0	1200	1200	0
6/8/2024 19:06	65603	QVIL_T2	0	0	0	0	0	0	-1.11	-1.11	0	0	0	0	0	0
6/8/2024 19:06	65602	QVIL_T2	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/8/2024 19:06	65604	QVIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/8/2024 19:08	54001	SDLE_T1	1	1	0	0.3	0.2	-0.1	0	0	1	1	0	600	600	0
6/8/2024 19:10	59101	WALK_T2	0	0	0	0	0	0	0.73	0.72	2	2	0	1200	1200	0
6/8/2024 19:13	17805	GILB_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
6/8/2024 19:15	12006	HATF_T1	0	0	0	0	0	0	1.1	1.12	0	0	0	0	0	0
6/8/2024 19:15	12005	HATF_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/8/2024 19:17	65001	NEFF_T2	0	0	0	0	0	0	-0.69	-0.76	1	1	0	1200	1200	0
6/8/2024 19:17	65003	NEFF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 19:18	13503	MCMI_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
6/8/2024 19:20	13302	ORWI_T2	9	8	-1	0.14	0.21	0.07	0.76	0.68	0	0	0	0	0	0
6/8/2024 19:22	10102	ALLE_T2	1	1	0	7.8	7.8	0	0	0	0	0	0	0	0	0
6/8/2024 19:22	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 19:25	10102	ALLE_T2	1	1	0	7.8	7.8	0	0	0	0	0	0	0	0	0
6/8/2024 19:25	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 19:34	12603	MACA_T1	0	0	0	0	0	0	-0.34	-0.35	1	1	0	600	600	0
6/8/2024 19:34	12606	MACA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/8/2024 19:35	51505	SWAT_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
6/8/2024 19:43	44302	BEAV_T2	42	84	42	0.19	0.29	0.1	0.5	0.5	0	0	0	0	0	0
6/8/2024 19:43	44301	BEAV_T2	2	4	2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
6/8/2024 19:48	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 19:48	46505	LOHA_T1	0	0	0	0	0	0	-0.3	-0.31	1	1	0	600	600	0
6/8/2024 19:48	46506	LOHA_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
6/8/2024 19:48	46504	LOHA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/8/2024 19:52	52503	PROG_T2	0	0	0	0	0	0	-0.25	-0.29	1	1	0	900	900	0
6/8/2024 19:56	40502	CRES_T2	14	15	1	0.33	0.31	-0.02	-0.71	-0.16	0	0	0	0	0	0
6/8/2024 19:56	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 20:00	40502	CRES_T2	15	1	-14	0.31	0.1	-0.21	-0.71	-0.16	0	0	0	0	0	0
6/8/2024 20:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 20:04	65603	QVIL_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
6/8/2024 20:04	58706	ROSE_T2	1	1	0	1.8	1.4	-0.4	0	0	0	0	0	0	0	0
6/8/2024 20:04	58705	ROSE_T2	3	4	1	0.93	1.1	0.17	0	0	0	0	0	0	0	0
6/8/2024 20:04	58702	ROSE_T2	0	0	0	0	0	0	-2.06	-2.22	0	0	0	0	0	0
6/8/2024 20:08	52501	PROG_T1	0	0	0	0	0	0	0.78	0.78	1	1	0	300	300	0
6/8/2024 20:11	20403	ASHF_T2	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
6/8/2024 20:14	54505	ENOL_T2	0	0	0	0	0	0	-0.96	-0.98	1	1	0	600	600	0
6/8/2024 20:18	46801	HEPB_T2	0	2	2	0	0.1	0.1	1.63	1.61	0	0	0	0	0	0
6/8/2024 20:18	24702	FLND_T2	0	0	0	0	0	0	-0.45	-0.39	1	1	0	1200	1200	0
6/8/2024 20:22	56501	ROCK_T2	5	127	122	2.54	0.25	-2.29	-0.77	-0.8	0	0	0	0	0	0
6/8/2024 20:24	56501	ROCK_T2	5	127	122	2.54	0.25	-2.29	-0.77	-0.8	0	0	0	0	0	0
6/8/2024 20:25	56501	ROCK_T2	5	127	122	2.54	0.25	-2.29	-1.54	-1.61	0	0	0	0	0	0
6/8/2024 20:27	56501	ROCK_T2	5	127	122	2.54	0.25	-2.29	-0.77	-0.8	0	0	0	0	0	0
6/8/2024 20:29	46803	HEPB_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
6/8/2024 20:29	46801	HEPB_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 20:43	11507	FREE_T2	0	0	0	0	0	0	1.08	0.92	0	0	0	0	0	0
6/8/2024 20:50	64202	KINZ_T1	0	8	8	0	0.19	0.19	0	0	0	0	0	0	0	0
6/8/2024 20:50	64203	KINZ_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
6/8/2024 20:50	64204	KINZ_T1	3	28	25	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
6/8/2024 20:50	64201	KINZ_T1	5	7	2	0.26	0.37	0.11	0	0	0	0	0	0	0	0
6/8/2024 20:52	58705	ROSE_T2	4	5	1	1.25	1.34	0.09	0	0	0	0	0	0	0	0
6/8/2024 20:52	58702	ROSE_T2	0	0	0	0	0	0	-2.29	-2.32	0	0	0	0	0	0
6/8/2024 20:52	58706	ROSE_T2	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
6/8/2024 21:02	40101	HUNT_T2	0	0	0	0	0	0	-1.06	-1.08	0	0	0	0	0	0
6/8/2024 21:04	12701	MACU_T1	0	0	0	0	0	0	-1.08	-1.09	1	1	0	1200	1200	0
6/8/2024 21:07	12701	MACU_T1	0	0	0	0	0	0	-1.09	-1.1	1	1	0	1200	1200	0
6/8/2024 21:10	67303	WYOM_T2	0	0	0	0	0	0	-1.64	-1.62	0	0	0	0	0	0
6/8/2024 21:11	61306	EARL_T1	0	0	0	0	0	0	-1.23	0.08	0	0	0	0	0	0
6/8/2024 21:11	60801	BUCK_T1	0	0	0	0	0	0	-0.73	-0.75	1	1	0	600	600	0
6/8/2024 21:13	46206	DANV_T2	2	1	-1	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/8/2024 21:13	46203	DANV_T2	0	0	0	0	0	0	-1.87	-1.87	0	0	0	0	0	0
6/8/2024 21:15	46206	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 21:15	46203	DANV_T2	0	0	0	0	0	0	-1.87	-1.87	0	0	0	0	0	0
6/8/2024 21:17	65205	PRIN_T1	1	1	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
6/8/2024 21:17	46203	DANV_T2	0	0	0	0	0	0	-1.87	-1.87	0	0	0	0	0	0
6/8/2024 21:17	46206	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 21:19	55003	NEWP_T2	2	0	-2	0.1	0	-0.1	-0.76	-0.75	1	1	0	600	600	0
6/8/2024 21:20	55002	NEWP_T1	2	3	1	0.85	0.53	-0.32	-0.17	-0.17	0	0	0	0	0	0
6/8/2024 21:23	55002	NEWP_T1	2	3	1	0.85	0.53	-0.32	-0.35	-0.36	0	0	0	0	0	0
6/8/2024 21:25	55002	NEWP_T1	2	3	1	0.85	0.53	-0.32	-0.17	-0.18	0	0	0	0	0	0
6/8/2024 21:31	52403	GRPA_T2	2	1	-1	0.15	0	-0.15	-0.41	-0.42	0	0	0	0	0	0
6/8/2024 21:31	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/8/2024 21:31	52402	GRPA_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/8/2024 21:37	45501	DERR_T2	0	1	1	0	1.6	1.6	-0.66	-0.71	2	2	0	1800	1800	0
6/8/2024 21:38	66703	STRA_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
6/8/2024 21:39	16103	BING_T2	0	0	0	0	0	0	-1.21	-1.24	1	1	0	900	900	0
6/8/2024 21:39	16102	BING_T2	10	17	7	0.22	0.38	0.16	0	0	0	0	0	0	0	0
6/8/2024 21:42	66703	STRA_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
6/8/2024 21:50	64302	LINC_T2	0	0	0	0	0	0	1.04	1.04	0	0	0	0	0	0
6/8/2024 21:55	16102	BING_T2	13	18	5	0.25	0.38	0.13	0	0	0	0	0	0	0	0
6/8/2024 21:55	16103	BING_T2	0	0	0	0	0	0	-1.24	-1.26	1	1	0	900	900	0
6/8/2024 22:00	46004	BERW_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
6/8/2024 22:01	56802	BENV_T2	0	0	0	0	0	0	-1.26	-1.28	0	0	0	0	0	0
6/8/2024 22:03	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.36	-0.33	1	1	0	900	900	0
6/8/2024 22:07	12701	MACU_T1	0	0	0	0	0	0	-2.25	-2.27	2	2	0	2400	2400	0
6/8/2024 22:08	14601	SWHI_T1	0	0	0	0	0	0	-1.39	-1.4	0	0	0	0	0	0
6/8/2024 22:11	61701	ELIZ_T1	1	1	0	4	3.7	-0.3	0.48	0.23	0	0	0	0	0	0
6/8/2024 22:16	10602	BLGL_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
6/8/2024 22:24	12606	MACA_T1	0	0	0	0	0	0	-0.1	-0.12	1	1	0	900	900	0
6/8/2024 22:24	12601	MACA_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/8/2024 22:25	46506	LOHA_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
6/8/2024 22:25	28704	HAML_T2	1	1	0	1.1	1.2	0.1	-0.01	-0.01	0	0	0	0	0	0
6/8/2024 22:25	28703	HAML_T2	3	3	0	0.73	1	0.27	0	0	0	0	0	0	0	0
6/8/2024 22:25	46504	LOHA_T1	2	18	16	1.25	0.27	-0.98	0	0	0	0	0	0	0	0
6/8/2024 22:27	25402	LAHA_T2	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
6/8/2024 22:28	51003	NHAR_T1	73	135	62	0.18	0.22	0.04	0	0	0	0	0	0	0	0
6/8/2024 22:28	20401	ASHF_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
6/8/2024 22:28	51002	NHAR_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
6/8/2024 22:28	51004	NHAR_T1	1	6	5	5.8	1.22	-4.58	-1.76	-1.78	0	0	0	0	0	0
6/8/2024 22:28	60801	BUCK_T1	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
6/8/2024 22:28	60803	BUCK_T1	0	7	7	0	0.11	0.11	-1.06	-1.07	1	1	0	600	600	0
6/8/2024 22:29	45902	AUBU_T1	11	51	40	0.25	0.28	0.03	-0.64	-0.64	0	0	0	0	0	0
6/8/2024 22:29	65503	MOJO_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
6/8/2024 22:29	55101	WERT_T1	0	0	0	0	0	0	-1.29	-1.29	2	2	0	1500	1500	0
6/8/2024 22:29	25402	LAHA_T2	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
6/8/2024 22:29	26704	HEML_T2	0	0	0	0	0	0	-0.8	-0.8	1	1	0	1200	1200	0
6/8/2024 22:29	61702	ELIZ_T2	0	0	0	0	0	0	-2.67	-2.01	2	2	0	1500	1500	0
6/8/2024 22:30	13501	MCMI_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
6/8/2024 22:30	59202	THOM_T1	3	32	29	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/8/2024 22:30	63602	LETO_T1	0	11	11	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 22:30	26703	HEML_T1	0	0	0	0	0	0	-0.91	-0.92	1	1	0	600	600	0
6/8/2024 22:30	45902	AUBU_T1	35	183	148	0.27	0.23	-0.04	-0.64	-0.64	0	0	0	0	0	0
6/8/2024 22:30	17401	FOHI_T1	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
6/8/2024 22:30	63601	LETO_T1	0	0	0	0	0	0	1.23	1.22	1	1	0	900	900	0
6/8/2024 22:30	45901	AUBU_T1	0	1	1	0	0.2	0.2	1.08	1.08	0	0	0	0	0	0
6/8/2024 22:30	59201	THOM_T1	3	7	4	0.1	0.16	0.06	0	0	0	0	0	0	0	0
6/8/2024 22:30	16503	STRO_T2	0	0	0	0	0	0	-0.15	-0.16	1	1	0	1200	1200	0
6/8/2024 22:31	52101	MEIS_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
6/8/2024 22:31	65001	NEFF_T2	0	73	73	0	0.13	0.13	-1.11	-1.15	1	1	0	1200	1200	0
6/8/2024 22:31	17802	GILB_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
6/8/2024 22:31	16102	BING_T2	17	20	3	0.43	0.6	0.17	0.42	0.4	0	0	0	0	0	0
6/8/2024 22:31	15703	TANN_T2	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
6/8/2024 22:31	15702	TANN_T2	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
6/8/2024 22:31	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 22:31	48302	ORWI_T2	2	2	0	0.8	1.2	0.4	-0.04	-0.04	0	0	0	0	0	0
6/8/2024 22:31	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/8/2024 22:31	65003	NEFF_T2	2	11	9	0.1	0.16	0.06	0	0	0	0	0	0	0	0
6/8/2024 22:31	52102	MEIS_T1	18	109	91	0.17	0.17	0	0	0	0	0	0	0	0	0
6/8/2024 22:31	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 22:31	10102	ALLE_T2	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/8/2024 22:31	45902	AUBU_T1	35	183	148	0.27	0.23	-0.04	-1.27	-1.29	0	0	0	0	0	0
6/8/2024 22:31	64701	LITI_T1	0	0	0	0	0	0	0.3	0.22	0	0	0	0	0	0
6/8/2024 22:32	12601	MACA_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/8/2024 22:32	66703	STRA_T1	3	46	43	0.2	0.22	0.02	-0.07	-0.12	0	0	0	0	0	0
6/8/2024 22:32	59101	WALK_T2	0	0	0	0	0	0	0.83	0.96	1	1	0	600	600	0
6/8/2024 22:32	17805	GILB_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
6/8/2024 22:32	23403	HONE_T1	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
6/8/2024 22:32	16302	ALPA_T2	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
6/8/2024 22:32	12801	MICK_T1	0	0	0	0	0	0	-0.97	-0.98	1	1	0	600	600	0
6/8/2024 22:32	13503	MCMI_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
6/8/2024 22:32	12803	MICK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/8/2024 22:32	10801	CHHI_T1	0	0	0	0	0	0	-1.23	-1.25	2	2	0	1500	1500	0
6/8/2024 22:32	12603	MACA_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
6/8/2024 22:33	17802	GILB_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
6/8/2024 22:33	67603	WARW_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
6/8/2024 22:33	13503	MCMI_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
6/8/2024 22:33	12601	MACA_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/8/2024 22:33	67605	WARW_T1	9	17	8	0.23	0.57	0.34	-1.23	-1.07	0	0	0	0	0	0
6/8/2024 22:33	12604	MACA_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
6/8/2024 22:33	20403	ASHF_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
6/8/2024 22:33	46002	BERW_T2	0	0	0	0	0	0	-1.33	-1.34	1	1	0	900	900	0
6/8/2024 22:34	12604	MACA_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
6/8/2024 22:34	67605	WARW_T1	9	17	8	0.23	0.57	0.34	-1.23	-1.07	0	0	0	0	0	0
6/8/2024 22:34	16302	ALPA_T2	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
6/8/2024 22:34	67602	WARW_T2	0	0	0	0	0	0	-0.32	-0.01	2	1	-1	1500	1200	-300
6/8/2024 22:34	66504	SMAN_T2	0	0	0	0	0	0	-1.58	-1.61	1	1	0	1200	1200	0
6/8/2024 22:34	12601	MACA_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/8/2024 22:34	58006	WCAR_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
6/8/2024 22:34	10805	CHHI_T2	1	1	0	7.9	7.6	-0.3	-1.12	-1.18	1	1	0	600	600	0
6/8/2024 22:34	66505	SMAN_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/8/2024 22:34	52004	LING_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
6/8/2024 22:34	61701	ELIZ_T1	1	1	0	3.5	3.8	0.3	0.23	0.32	0	0	0	0	0	0
6/8/2024 22:34	58003	WCAR_T1	1	1	0	1.9	1.9	0	0.02	0.01	1	1	0	600	600	0
6/8/2024 22:34	58001	WCAR_T1	3	4	1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/8/2024 22:34	48302	ORWI_T2	2	2	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
6/8/2024 22:34	65502	MOJO_T2	0	13	13	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 22:34	65503	MOJO_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
6/8/2024 22:35	40302	TAMA_T3	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
6/8/2024 22:35	60201	ATGL_T2	0	0	0	0	0	0	0.05	0.04	1	1	0	300	300	0
6/8/2024 22:35	45901	AUBU_T1	0	1	1	0	0.2	0.2	1.08	1.08	0	0	0	0	0	0
6/8/2024 22:35	16302	ALPA_T2	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
6/8/2024 22:35	42902	MIDD_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
6/8/2024 22:35	63802	HEMP_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
6/8/2024 22:35	24603	VARD_T2	54	251	197	0.3	0.3	0	0	0	0	0	0	0	0	0
6/8/2024 22:35	12601	MACA_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/8/2024 22:35	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 22:35	10103	ALLE_T3	0	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0
6/8/2024 22:35	48302	ORWI_T2	2	2	0	0.8	1.2	0.4	-0.04	-0.04	0	0	0	0	0	0
6/8/2024 22:35	42903	MIDD_T2	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
6/8/2024 22:35	54001	SDLE_T1	1	4	3	0.3	0.45	0.15	0	0	1	1	0	600	600	0
6/8/2024 22:35	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 22:35	56801	BENV_T1	13	14	1	1.45	1.48	0.03	-1.99	-2.06	4	4	0	2400	2400	0
6/8/2024 22:35	45902	AUBU_T1	35	183	148	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
6/8/2024 22:35	63804	HEMP_T1	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
6/8/2024 22:35	63401	HONY_T1	0	0	0	0	0	0	1.51	1.49	0	0	0	0	0	0
6/8/2024 22:35	10205	ALLE_T3	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/8/2024 22:35	58402	MORO_T1	0	0	0	0	0	0	-0.42	-0.45	2	2	0	1500	1500	0
6/8/2024 22:35	67203	TEHI_T1	0	0	0	0	0	0	1.03	1.02	1	1	0	900	900	0
6/8/2024 22:35	10105	ALLE_T3	3	3	0	0.3	0.33	0.03	0	0	0	0	0	0	0	0
6/8/2024 22:35	63404	HONY_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 22:35	24602	VARD_T2	787	912	125	0.89	1.2	0.31	-1.02	-1.02	0	0	0	0	0	0
6/8/2024 22:36	12606	MACA_T1	0	0	0	0	0	0	-0.1	-0.12	1	1	0	900	900	0
6/8/2024 22:36	60101	COCA_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
6/8/2024 22:36	10903	COOP_T2	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
6/8/2024 22:36	66504	SMAN_T2	0	0	0	0	0	0	-3.21	-3.14	2	2	0	2400	2400	0
6/8/2024 22:36	52402	GRPA_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/8/2024 22:36	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/8/2024 22:36	63305	GREE_T1	2	2	0	0.1	0.2	0.1	-2.24	-2.24	1	1	0	900	900	0
6/8/2024 22:36	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/8/2024 22:36	46901	MNTG_T2	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
6/8/2024 22:36	52004	LING_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
6/8/2024 22:36	45902	AUBU_T1	35	183	148	0.27	0.23	-0.04	-1.91	-1.93	0	0	0	0	0	0
6/8/2024 22:36	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 22:36	10805	CHHI_T2	1	1	0	7.9	7.6	-0.3	-2.36	-2.33	2	2	0	1200	1200	0
6/8/2024 22:36	44302	BEAV_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
6/8/2024 22:36	46504	LOHA_T1	2	18	16	1.05	0.27	-0.78	0	0	0	0	0	0	0	0
6/8/2024 22:36	10901	COOP_T2	0	0	0	0	0	0	0.87	0.85	0	0	0	0	0	0
6/8/2024 22:36	46506	LOHA_T1	0	1	1	0	0.4	0.4	-0.34	-0.35	0	0	0	0	0	0
6/8/2024 22:36	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/8/2024 22:36	52403	GRPA_T2	0	2	2	0	0.5	0.5	-0.46	-0.47	0	0	0	0	0	0
6/8/2024 22:36	16401	MOPO_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
6/8/2024 22:36	52401	GRPA_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/8/2024 22:36	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.02	2	1	-1	1500	1200	-300
6/8/2024 22:36	66505	SMAN_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/8/2024 22:36	42701	AUGU_T1	16	5	-11	0.42	0	-0.42	0	0	0	0	0	0	0	0
6/8/2024 22:37	65802	RTWN_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
6/8/2024 22:37	65803	RTWN_T2	8	16	8	0.2	0.26	0.06	0	0	0	0	0	0	0	0
6/8/2024 22:37	58003	WCAR_T1	1	1	0	1.9	1.9	0	0.01	0.01	1	1	0	600	600	0
6/8/2024 22:37	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
6/8/2024 22:37	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/8/2024 22:37	60102	COCA_T1	0	0	0	0	0	0	0.48	0.61	2	1	-1	1200	600	-600
6/8/2024 22:37	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
6/8/2024 22:37	20401	ASHF_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
6/8/2024 22:37	43108	SMIL_T2	0	0	0	0	0	0	-1.24	-1.25	1	1	0	1200	1200	0
6/8/2024 22:37	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.02	1	1	0	1200	1200	0
6/8/2024 22:37	45902	AUBU_T1	35	183	148	0.27	0.23	-0.04	-0.64	-0.65	0	0	0	0	0	0
6/8/2024 22:37	63305	GREE_T1	2	2	0	0.1	0.2	0.1	-2.24	-2.24	1	1	0	900	900	0
6/8/2024 22:37	44505	HAMI_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
6/8/2024 22:37	43102	SMIL_T2	4	7	3	0.28	0.43	0.15	0	0	0	0	0	0	0	0
6/8/2024 22:37	43103	SMIL_T2	16	22	6	0.68	0.7	0.02	0	0	0	0	0	0	0	0
6/8/2024 22:37	15703	TANN_T2	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
6/8/2024 22:37	24204	PROV_T3	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
6/8/2024 22:37	67605	WARW_T1	9	17	8	0.23	0.57	0.34	-1.07	-1.09	0	0	0	0	0	0
6/8/2024 22:37	25501	MADI_T1	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
6/8/2024 22:37	13503	MCMI_T2	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
6/8/2024 22:37	24201	PROV_T3	2	8	6	3.1	0.91	-2.19	-1.28	-1.29	1	1	0	1200	1200	0
6/8/2024 22:37	25503	MADI_T1	106	174	68	0.4	0.6	0.2	-0.91	-0.92	0	0	0	0	0	0
6/8/2024 22:37	63602	LETO_T1	0	11	11	0	0.1	0.1	-0.89	-0.3	1	0	-1	600	0	-600
6/8/2024 22:37	58001	WCAR_T1	3	4	1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/8/2024 22:37	24205	PROV_T3	3	5	2	0.1	0.14	0.04	0	0	0	0	0	0	0	0
6/8/2024 22:37	15702	TANN_T2	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
6/8/2024 22:38	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 22:38	65202	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 22:38	52102	MEIS_T1	18	109	91	0.17	0.17	0	0	0	0	0	0	0	0	0
6/8/2024 22:38	56801	BENV_T1	13	14	1	1.45	1.48	0.03	-1.03	-1.06	2	2	0	1200	1200	0
6/8/2024 22:38	65205	PRIN_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
6/8/2024 22:38	10805	CHHI_T2	1	1	0	7.9	7.6	-0.3	-1.18	-1.17	1	1	0	600	600	0
6/8/2024 22:38	56501	ROCK_T2	49	233	184	0.34	0.26	-0.08	-1.06	-1.09	0	0	0	0	0	0
6/8/2024 22:38	52002	LING_T2	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
6/8/2024 22:38	52503	PROG_T2	0	0	0	0	0	0	-2.16	-2.22	4	4	0	3600	3600	0
6/8/2024 22:38	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 22:38	64101	REFR_T1	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
6/8/2024 22:38	42903	MIDD_T2	2	2	0	0.15	0.25	0.1	-0.27	-0.27	0	0	0	0	0	0
6/8/2024 22:38	52101	MEIS_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
6/8/2024 22:38	20403	ASHF_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
6/8/2024 22:38	63804	HEMP_T1	1	1	0	5.6	5.3	-0.3	-0.15	-0.17	0	0	0	0	0	0
6/8/2024 22:38	60201	ATGL_T2	0	0	0	0	0	0	0.04	0.04	1	1	0	300	300	0
6/8/2024 22:38	10102	ALLE_T2	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
6/8/2024 22:39	60801	BUCK_T1	2	33	31	0.1	0.16	0.06	0	0	0	0	0	0	0	0
6/8/2024 22:39	65502	MOJO_T2	0	13	13	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 22:39	43102	SMIL_T2	4	7	3	0.28	0.43	0.15	0	0	0	0	0	0	0	0
6/8/2024 22:39	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 22:39	40501	CRES_T2	1	5	4	0.1	0.16	0.06	0	0	0	0	0	0	0	0
6/8/2024 22:39	13302	ORVI_T2	1	9	8	0.2	0.12	-0.08	1.59	1.61	0	0	0	0	0	0
6/8/2024 22:39	51505	SWAT_T2	0	0	0	0	0	0	0	-0.08	0	0	0	0	0	0
6/8/2024 22:39	43103	SMIL_T2	16	22	6	0.68	0.7	0.02	-6.21	-6.27	0	0	0	0	0	0
6/8/2024 22:39	20403	ASHF_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
6/8/2024 22:39	13503	MCMI_T2	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
6/8/2024 22:39	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 22:39	24602	VARD_T2	787	912	125	0.89	1.2	0.31	0	0	0	0	0	0	0	0
6/8/2024 22:39	65503	MOJO_T2	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
6/8/2024 22:39	58001	WCAR_T1	3	4	1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/8/2024 22:39	66505	SMAN_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/8/2024 22:39	42601	TUSC_T1	0	0	0	0	0	0	-0.54	-0.58	2	2	0	1800	1800	0
6/8/2024 22:39	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.79	-0.8	2	2	0	1800	1800	0
6/8/2024 22:39	52402	GRPA_T2	1	1	0	0.2	0.6	0.4	-0.79	-0.79	0	0	0	0	0	0
6/8/2024 22:39	40502	CRES_T2	20	27	7	0.34	0.29	-0.05	-0.35	-0.37	0	0	0	0	0	0
6/8/2024 22:39	52401	GRPA_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/8/2024 22:39	60803	BUCK_T1	1	10	9	0.1	0.15	0.05	-1.07	-1.08	1	1	0	600	600	0
6/8/2024 22:39	52002	LING_T2	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
6/8/2024 22:39	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/8/2024 22:39	58003	WCAR_T1	1	1	0	1.9	1.9	0	0.01	0.01	1	1	0	600	600	0
6/8/2024 22:39	16301	ALPA_T1	2	2	0	0.3	0.35	0.05	-0.14	-0.16	0	0	0	0	0	0
6/8/2024 22:39	67103	SPRI_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
6/8/2024 22:39	52403	GRPA_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
6/8/2024 22:39	66502	SMAN_T2	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
6/8/2024 22:39	24603	VARD_T2	54	251	197	0.3	0.3	0	-0.23	-0.24	0	0	0	0	0	0
6/8/2024 22:40	60803	BUCK_T1	1	10	9	0.1	0.15	0.05	-1.07	-1.08	1	1	0	600	600	0
6/8/2024 22:40	59201	THOM_T1	3	7	4	0.1	0.16	0.06	0	0	0	0	0	0	0	0
6/8/2024 22:40	59101	WALK_T2	0	0	0	0	0	0	0.96	1.02	1	1	0	600	600	0
6/8/2024 22:40	45003	LIME_2	2	2	0	2.15	2.3	0.15	0.43	0.41	0	0	0	0	0	0
6/8/2024 22:40	45002	LIME_2	1	1	0	5.2	5.6	0.4	0	0	0	0	0	0	0	0
6/8/2024 22:40	67803	WLAN_T1	0	0	0	0	0	0	-1.29	-1.31	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/8/2024 22:40	59202	THOM_T1	3	32	29	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/8/2024 22:40	43102	SMIL_T2	4	7	3	0.28	0.43	0.15	0	0	0	0	0	0	0	0
6/8/2024 22:40	10801	CHHI_T1	0	0	0	0	0	0	-1.25	-1.28	2	2	0	1500	1500	0
6/8/2024 22:40	43103	SMIL_T2	16	22	6	0.68	0.7	0.02	0	0	0	0	0	0	0	0
6/8/2024 22:40	60801	BUCK_T1	2	33	31	0.1	0.16	0.06	0	0	0	0	0	0	0	0
6/8/2024 22:40	45001	LIME_2	17	30	13	0.22	0.37	0.15	0	0	0	0	0	0	0	0
6/8/2024 22:40	56801	BENV_T1	13	14	1	1.45	1.48	0.03	-2.06	-2.13	4	4	0	2400	2400	0
6/8/2024 22:40	43108	SMIL_T2	0	0	0	0	0	0	-1.24	-1.25	1	1	0	1200	1200	0
6/8/2024 22:40	67605	WARW_T1	9	17	8	0.23	0.57	0.34	-1.07	-1.09	0	0	0	0	0	0
6/8/2024 22:40	12606	MACA_T1	0	0	0	0	0	0	-0.12	-0.13	1	1	0	900	900	0
6/8/2024 22:40	22602	KIMB_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
6/8/2024 22:40	67203	TEHI_T1	0	0	0	0	0	0	1.02	1.03	1	1	0	900	900	0
6/8/2024 22:40	12601	MACA_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/8/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/8/2024 22:40	67804	WLAN_T1	1	1	0	7.3	0	-7.3	0	0	0	0	0	0	0	0
6/8/2024 22:41	53903	HALI_T2	2	2	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
6/8/2024 22:41	56802	BENV_T2	0	1	1	0	0.1	0.1	-1.31	-1.33	0	0	0	0	0	0
6/8/2024 22:41	66505	SMAN_T2	0	3	3	0	0.17	0.17	-0.09	0.4	2	1	-1	1500	900	-600
6/8/2024 22:41	63401	HONY_T1	0	0	0	0	0	0	0.74	0.74	0	0	0	0	0	0
6/8/2024 22:41	56803	BENV_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
6/8/2024 22:41	43104	SMIL_T2	0	0	0	0	0	0	-0.71	-0.71	1	1	0	300	300	0
6/8/2024 22:41	60803	BUCK_T1	1	10	9	0.1	0.15	0.05	-1.07	-1.08	1	1	0	600	600	0
6/8/2024 22:41	67001	HUGH_T2	0	0	0	0	0	0	-0.85	-0.88	0	0	0	0	0	0
6/8/2024 22:41	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 22:41	53901	HALI_T2	0	2	2	0	0.4	0.4	-0.81	-0.82	0	0	0	0	0	0
6/8/2024 22:41	24702	FLND_T2	0	0	0	0	0	0	-0.18	-0.31	1	1	0	1200	1200	0
6/8/2024 22:41	59101	WALK_T2	0	0	0	0	0	0	1.92	2.04	2	2	0	1200	1200	0
6/8/2024 22:41	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/8/2024 22:41	59201	THOM_T1	3	7	4	0.1	0.16	0.06	0	0	0	0	0	0	0	0
6/8/2024 22:41	46506	LOHA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/8/2024 22:41	56801	BENV_T1	13	14	1	1.45	1.48	0.03	0	0	0	0	0	0	0	0
6/8/2024 22:41	60801	BUCK_T1	2	33	31	0.1	0.16	0.06	0	0	0	0	0	0	0	0
6/8/2024 22:41	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.79	-0.8	2	2	0	1800	1800	0
6/8/2024 22:41	43108	SMIL_T2	0	0	0	0	0	0	-1.24	-1.25	1	1	0	1200	1200	0
6/8/2024 22:41	13503	MCMI_T2	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
6/8/2024 22:41	59202	THOM_T1	3	32	29	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/8/2024 22:41	53902	HALI_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
6/8/2024 22:41	21203	ECAR_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
6/8/2024 22:41	63404	HONY_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
6/8/2024 22:41	46504	LOHA_T1	2	18	16	1.05	0.27	-0.78	0	0	0	0	0	0	0	0
6/8/2024 22:41	54505	ENOL_T2	1	1	0	0.1	0.3	0.2	-1.1	-1.11	1	1	0	600	600	0
6/8/2024 22:41	16302	ALPA_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
6/8/2024 22:41	46505	LOHA_T1	0	0	0	0	0	0	-0.32	-0.18	1	1	0	600	600	0
6/8/2024 22:41	55101	WERT_T1	0	0	0	0	0	0	-1.29	-1.31	2	2	0	1500	1500	0
6/8/2024 22:41	43102	SMIL_T2	4	7	3	0.28	0.43	0.15	0	0	0	0	0	0	0	0
6/8/2024 22:41	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.02	1	1	0	1200	1200	0
6/8/2024 22:41	43103	SMIL_T2	16	22	6	0.68	0.7	0.02	0	0	0	0	0	0	0	0
6/8/2024 22:41	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 22:42	52401	GRPA_T2	1	1	0	0.8	0.5	-0.3	-0.5	-0.51	0	0	0	0	0	0
6/8/2024 22:42	59101	WALK_T2	0	0	0	0	0	0	0.96	1.02	1	1	0	600	600	0
6/8/2024 22:42	10805	CHHI_T2	1	1	0	7.9	7.6	-0.3	1.18	1.17	1	1	0	600	600	0
6/8/2024 22:42	58402	MORO_T1	0	0	0	0	0	0	-0.45	-0.47	2	2	0	1500	1500	0
6/8/2024 22:42	12601	MACA_T1	1	0	-1	0.5	0	-0.5	0.93	0.91	0	0	0	0	0	0
6/8/2024 22:42	54701	NEBL_T1	1	1	0	1.3	1.8	0.5	0	0	1	1	0	600	600	0
6/8/2024 22:42	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 22:42	52403	GRPA_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
6/8/2024 22:42	45902	AUBU_T1	35	183	148	0.27	0.23	-0.04	-0.64	-0.65	0	0	0	0	0	0
6/8/2024 22:42	42903	MIDD_T2	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
6/8/2024 22:42	52402	GRPA_T2	1	1	0	0.2	0.6	0.4	-0.79	-0.79	0	0	0	0	0	0
6/8/2024 22:42	42902	MIDD_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
6/8/2024 22:42	64101	REFR_T1	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
6/8/2024 22:42	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/8/2024 22:42	52503	PROG_T2	0	0	0	0	0	0	-0.54	-0.56	1	1	0	900	900	0
6/8/2024 22:43	64203	KINZ_T1	0	0	0	0	0	0	0.37	0.33	0	0	0	0	0	0
6/8/2024 22:43	59002	MIFF_T1	6	6	0	0.62	0.83	0.21	0	0	0	0	0	0	0	0
6/8/2024 22:43	64202	KINZ_T1	16	9	-7	0.36	0.23	-0.13	0	0	0	0	0	0	0	0
6/8/2024 22:43	60501	NMAN_T2	3	3	0	3.9	5.1	1.2	0	0	0	0	0	0	0	0
6/8/2024 22:43	20601	GRWO_T2	2	30	28	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/8/2024 22:43	46203	DANV_T2	0	0	0	0	0	0	-1.97	-1.99	0	0	0	0	0	0
6/8/2024 22:43	64204	KINZ_T1	38	23	-15	0.35	0.19	-0.16	0	0	0	0	0	0	0	0
6/8/2024 22:43	12202	FOGE_T2	0	0	0	0	0	0	-0.5	-0.51	1	1	0	600	600	0
6/8/2024 22:43	64201	KINZ_T1	8	7	-1	0.58	0.41	-0.17	0	0	0	0	0	0	0	0
6/8/2024 22:43	59003	MIFF_T1	1	1	0	0.5	0.7	0.2	0.39	0.37	0	0	0	0	0	0
6/8/2024 22:43	60502	NMAN_T2	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
6/8/2024 22:43	67602	WARW_T2	0	0	0	0	0	0	-0.02	-0.04	2	2	0	2400	2400	0
6/8/2024 22:43	20403	ASHF_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
6/8/2024 22:43	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/8/2024 22:43	42902	MIDD_T2	0	0	0	0	0	0	-1.16	-1.18	0	0	0	0	0	0
6/8/2024 22:43	42903	MIDD_T2	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
6/8/2024 22:43	58401	MORO_T1	0	0	0	0	0	0	-0.97	-0.98	1	1	0	600	600	0
6/8/2024 22:43	20603	GRWO_T2	0	3	3	0	0.1	0.1	0.42	0.42	0	0	0	0	0	0
6/8/2024 22:43	52501	PROG_T1	0	0	0	0	0	0	0.62	0.59	1	1	0	300	300	0
6/8/2024 22:44	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/8/2024 22:44	66703	STRA_T1	3	46	43	0.2	0.22	0.02	-0.12	-0.16	0	0	0	0	0	0
6/8/2024 22:44	46203	DANV_T2	0	0	0	0	0	0	-1.97	-1.99	0	0	0	0	0	0
6/8/2024 22:44	22602	KIMB_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
6/8/2024 22:44	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.02	1	1	0	1200	1200	0
6/8/2024 22:44	46101	MACI_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
6/8/2024 22:44	27603	PIRI_T2	0	0	0	0	0	0	-1.22	-1.22	2	2	0	1800	1800	0
6/8/2024 22:44	55101	WERT_T1	0	0	0	0	0	0	-1.29	-1.31	2	2	0	1500	1500	0
6/8/2024 22:44	10801	CHHI_T1	0	0	0	0	0	0	-2.51	-2.56	4	4	0	3000	3000	0
6/8/2024 22:44	44302	BEAV_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
6/8/2024 22:44	45802	HEGI_T2	47	47	0	1.15	1.17	0.02	0	0	0	0	0	0	0	0
6/8/2024 22:44	45902	AUBU_T1	35	183	148	0.27	0.23	-0.04	-0.64	-0.65	0	0	0	0	0	0
6/8/2024 22:44	66505	SMAN_T2	0	3	3	0	0.17	0.17	-0.09	0.4	2	1	-1	1500	900	-600
6/8/2024 22:44	67201	TEHI_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
6/8/2024 22:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 22:45	63305	GREE_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/8/2024 22:45	46801	HEPB_T2	2	2	0	0.5	0.75	0.25	0.71	0.7	0	0	0	0	0	0
6/8/2024 22:45	43201	MVIL_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
6/8/2024 22:45	52002	LING_T2	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
6/8/2024 22:45	52101	MEIS_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/8/2024 22:45	55101	WERT_T1	0	0	0	0	0	0	-1.29	-1.31	2	2	0	1500	1500	0
6/8/2024 22:45	57304	MOAL_T2	0	0	0	0	0	0	-0.32	-0.19	0	0	0	0	0	0
6/8/2024 22:45	42201	SHEN_T2	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
6/8/2024 22:45	63302	GREE_T1	0	0	0	0	0	0	-0.67	0.3	0	0	0	0	0	0
6/8/2024 22:45	56801	BENV_T1	14	14	0	1.43	0.89	-0.54	-2.06	-2.13	4	4	0	2400	2400	0
6/8/2024 22:45	45501	DERR_T2	1	0	-1	0.1	0	-0.1	-0.79	-0.8	2	2	0	1800	1800	0
6/8/2024 22:45	52102	MEIS_T1	98	120	22	0.15	0.21	0.06	0	0	0	0	0	0	0	0
6/8/2024 22:45	46206	DANV_T2	0	0	0	0	0	0	3.91	3.9	2	2	0	2400	2400	0
6/8/2024 22:45	43202	MVIL_T2	22	57	35	0.17	0.36	0.19	0	0	0	0	0	0	0	0
6/8/2024 22:45	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/8/2024 22:45	52503	PROG_T2	0	0	0	0	0	0	-0.54	-0.56	1	1	0	900	900	0
6/8/2024 22:45	57303	MOAL_T2	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
6/8/2024 22:45	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/8/2024 22:45	61801	EELI_T2	0	0	0	0	0	0	-0.21	-0.28	0	0	0	0	0	0
6/8/2024 22:46	52101	MEIS_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/8/2024 22:46	58003	WCAR_T1	1	3	2	1.9	0.83	-1.07	0.01	0.01	1	1	0	600	600	0
6/8/2024 22:46	65901	SAKR_T2	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
6/8/2024 22:46	43108	SMIL_T2	0	0	0	0	0	0	-1.24	-1.25	1	1	0	1200	1200	0
6/8/2024 22:46	44502	HAMI_T2	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
6/8/2024 22:46	52002	LING_T2	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
6/8/2024 22:46	63804	HEMP_T1	1	1	0	5.4	5.1	-0.3	0	0	0	0	0	0	0	0
6/8/2024 22:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 22:46	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/8/2024 22:46	63801	HEMP_T1	0	0	0	0	0	0	-1.04	-0.96	1	1	0	900	900	0
6/8/2024 22:46	56801	BENV_T1	14	14	0	1.43	0.89	-0.54	-2.06	-2.13	4	4	0	2400	2400	0
6/8/2024 22:46	43103	SMIL_T2	18	22	4	0.74	0.7	-0.04	-2.07	-2.09	0	0	0	0	0	0
6/8/2024 22:46	67605	WARW_T1	14	20	6	0.51	0.59	0.08	-1.07	-1.09	0	0	0	0	0	0
6/8/2024 22:46	58001	WCAR_T1	4	4	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
6/8/2024 22:46	58401	MORO_T1	0	0	0	0	0	0	-0.97	-0.98	1	1	0	600	600	0
6/8/2024 22:46	44301	BEAV_T2	0	0	0	0	0	0	-0.39	-0.41	1	1	0	600	600	0
6/8/2024 22:46	43102	SMIL_T2	6	9	3	0.45	0.5	0.05	0	0	0	0	0	0	0	0
6/8/2024 22:46	52102	MEIS_T1	98	120	22	0.15	0.21	0.06	0	0	0	0	0	0	0	0
6/8/2024 22:46	67901	WNHO_T2	204	112	-92	0.49	0.38	-0.11	-0.44	-0.5	0	0	0	0	0	0
6/8/2024 22:46	60104	COCA_T2	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/8/2024 22:46	46801	HEPB_T2	2	2	0	0.5	0.75	0.25	0.71	0.7	0	0	0	0	0	0
6/8/2024 22:46	60103	COCA_T2	0	0	0	0	0	0	0.32	0.31	1	1	0	900	900	0
6/8/2024 22:46	44505	HAMI_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
6/8/2024 22:46	65902	SAKR_T2	0	0	0	0	0	0	-0.56	-0.57	1	1	0	300	300	0
6/8/2024 22:47	43104	SMIL_T2	0	0	0	0	0	0	-0.71	-0.71	1	1	0	300	300	0
6/8/2024 22:47	40702	FFLD_T1	117	152	35	0.22	0.27	0.05	-1.22	-1.23	1	1	0	1200	1200	0
6/8/2024 22:47	20603	GRWO_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
6/8/2024 22:47	43103	SMIL_T2	18	22	4	0.74	0.7	-0.04	-2.07	-2.09	0	0	0	0	0	0
6/8/2024 22:47	63804	HEMP_T1	1	1	0	5.4	5.1	-0.3	0	0	0	0	0	0	0	0
6/8/2024 22:47	63801	HEMP_T1	0	0	0	0	0	0	-1.04	-0.96	1	1	0	900	900	0
6/8/2024 22:47	40701	FFLD_T1	16	29	13	0.2	0.24	0.04	0	0	0	0	0	0	0	0
6/8/2024 22:47	40502	CRES_T2	19	33	14	0.31	0.36	0.05	-0.35	-0.37	0	0	0	0	0	0
6/8/2024 22:47	56801	BENV_T1	14	14	0	1.43	0.89	-0.54	-2.06	-2.13	4	4	0	2400	2400	0
6/8/2024 22:47	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 22:47	40703	FFLD_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/8/2024 22:47	52402	GRPA_T2	1	3	2	0.2	0.4	0.2	-0.79	-0.79	0	0	0	0	0	0
6/8/2024 22:47	52101	MEIS_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/8/2024 22:47	52002	LING_T2	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
6/8/2024 22:47	52401	GRPA_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
6/8/2024 22:47	52403	GRPA_T2	2	2	0	0.15	0.5	0.35	0	0	0	0	0	0	0	0
6/8/2024 22:47	20601	GRWO_T2	12	68	56	0.17	0.19	0.02	-0.34	-0.35	0	0	0	0	0	0
6/8/2024 22:47	55101	WERT_T1	0	0	0	0	0	0	-1.29	-1.31	2	2	0	1500	1500	0
6/8/2024 22:47	40501	CRES_T2	2	5	3	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
6/8/2024 22:47	43102	SMIL_T2	6	9	3	0.45	0.5	0.05	0	0	0	0	0	0	0	0
6/8/2024 22:47	52102	MEIS_T1	98	120	22	0.15	0.21	0.06	0	0	0	0	0	0	0	0
6/8/2024 22:47	20403	ASHF_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
6/8/2024 22:48	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/8/2024 22:48	45501	DERR_T2	1	0	-1	0.1	0	-0.1	-0.79	-0.8	2	2	0	1800	1800	0
6/8/2024 22:48	55101	WERT_T1	0	0	0	0	0	0	-1.29	-1.31	2	2	0	1500	1500	0
6/8/2024 22:48	46206	DANV_T2	0	0	0	0	0	0	1.95	1.95	1	1	0	1200	1200	0
6/8/2024 22:48	58402	MORO_T1	0	0	0	0	0	0	-0.45	-0.47	2	2	0	1500	1500	0
6/8/2024 22:48	65802	RTWN_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
6/8/2024 22:48	56801	BENV_T1	14	14	0	1.43	0.89	-0.54	-2.06	-2.13	4	4	0	2400	2400	0
6/8/2024 22:48	42201	SHEN_T2	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
6/8/2024 22:48	65803	RTWN_T2	10	16	6	0.26	0.26	0	0	0	0	0	0	0	0	0
6/8/2024 22:49	58003	WCAR_T1	1	3	2	1.9	0.83	-1.07	0.01	0.01	1	1	0	600	600	0
6/8/2024 22:49	63305	GREE_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/8/2024 22:49	41901	REED_T1	5	7	2	0.16	0.17	0.01	0	0	0	0	0	0	0	0
6/8/2024 22:49	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
6/8/2024 22:49	67605	WARW_T1	14	20	6	0.51	0.59	0.08	-1.07	-1.09	0	0	0	0	0	0
6/8/2024 22:49	67605	WARW_T1	14	20	6	0.51	0.59	0.08	-1.07	-1.09	0	0	0	0	0	0
6/8/2024 22:49	67605	WARW_T1	14	20	6	0.51	0.59	0.08	-1.07	-1.09	0	0	0	0	0	0
6/8/2024 22:49	67605	WARW_T1	14	20	6	0.51	0.59	0.08	-1.07	-1.09	0	0	0	0	0	0
6/8/2024 22:49	63304	GREE_T1	0	0	0	0	0	0	-1.61	-1.64	0	0	0	0	0	0
6/8/2024 22:49	58001	WCAR_T1	4	4	0	0.65	0.9	0.25	0.84	0.83	0	0	0	0	0	0
6/8/2024 22:49	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/8/2024 22:49	41902	REED_T1	0	0	0	0	0	0	1.92	1.88	0	0	0	0	0	0
6/8/2024 22:49	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 22:49	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 22:50	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 22:50	59101	WALK_T2	0	0	0	0	0	0	1.92	2.04	2	2	0	1200	1200	0
6/8/2024 22:50	43104	SMIL_T2	0	0	0	0	0	0	-0.71	-0.71	1	1	0	300	300	0
6/8/2024 22:50	43103	SMIL_T2	18	22	4	0.74	0.7	-0.04	0	0	0	0	0	0	0	0
6/8/2024 22:50	52402	GRPA_T2	1	3	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/8/2024 22:50	49804	UNIV_T1	2	20	18	0.5	0.24	-0.26	0	0	0	0	0	0	0	0
6/8/2024 22:50	52002	LING_T2	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
6/8/2024 22:50	43102	SMIL_T2	6	9	3	0.45	0.5	0.05	0	0	0	0	0	0	0	0
6/8/2024 22:50	52403	GRPA_T2	2	2	0	0.15	0.5	0.35	-0.47	-0.48	0	0	0	0	0	0
6/8/2024 22:50	10701	CATA_T2	0	0	0	0	0	0	-1.84	-1.89	1	1	0	1200	1200	0
6/8/2024 22:50	49803	UNIV_T1	0	0	0	0	0	0	-1.04	-1.09	0	0	0	0	0	0
6/8/2024 22:50	52401	GRPA_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
6/8/2024 22:51	43103	SMIL_T2	18	22	4	0.74	0.7	-0.04	-2.09	-2.11	0	0	0	0	0	0
6/8/2024 22:51	52102	MEIS_T1	98	120	22	0.15	0.21	0.06	0	0	0	0	0	0	0	0
6/8/2024 22:51	53901	HALI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/8/2024 22:51	52401	GRPA_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
6/8/2024 22:51	58401	MORO_T1	0	0	0	0	0	0	-0.97	-0.98	1	1	0	600	600	0
6/8/2024 22:51	52101	MEIS_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/8/2024 22:51	45501	DERR_T2	1	0	-1	0.1	0	-0.1	-0.8	-0.8	2	2	0	1800	1800	0
6/8/2024 22:51	53903	HALI_T2	2	2	0	1.55	1.7	0.15	0	0	0	0	0	0	0	0
6/8/2024 22:51	52503	PROG_T2	0	0	0	0	0	0	-0.54	-0.56	1	1	0	900	900	0
6/8/2024 22:51	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2024 22:51	52402	GRPA_T2	1	3	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/8/2024 22:51	53902	HALI_T2	1	1	0	5.4	5.7	0.3	-0.84	-0.84	0	0	0	0	0	0
6/8/2024 22:51	43102	SMIL_T2	6	9	3	0.45	0.5	0.05	0	0	0	0	0	0	0	0
6/8/2024 22:51	52403	GRPA_T2	2	2	0	0.15	0.5	0.35	-0.47	-0.48	0	0	0	0	0	0
6/8/2024 22:52	43104	SMIL_T2	0	0	0	0	0	0	-0.71	-0.72	1	1	0	300	300	0
6/8/2024 22:52	52503	PROG_T2	0	0	0	0	0	0	-0.56	-0.57	1	1	0	900	900	0
6/8/2024 22:52	43103	SMIL_T2	18	22	4	0.74	0.7	-0.04	0	0	0	0	0	0	0	0
6/8/2024 22:52	67602	WARW_T2	0	0	0	0	0	0	-0.02	-0.03	1	1	0	1200	1200	0
6/8/2024 22:52	44301	BEAV_T2	0	0	0	0	0	0	-0.41	-0.43	1	1	0	600	600	0
6/8/2024 22:52	43102	SMIL_T2	6	9	3	0.45	0.5	0.05	-0.77	-0.78	1	1	0	600	600	0
6/8/2024 22:52	44302	BEAV_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
6/8/2024 22:53	45003	LIME_2	2	2	0	2.25	2.5	0.25	0.21	0.19	0	0	0	0	0	0
6/8/2024 22:53	45001	LIME_2	12	32	20	0.18	0.47	0.29	0	0	0	0	0	0	0	0
6/8/2024 22:53	45002	LIME_2	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
6/8/2024 22:55	44302	BEAV_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
6/8/2024 23:00	52404	GRPA_T2	0	3	3	0	0.17	0.17	-0.34	-0.35	0	0	0	0	0	0
6/8/2024 23:00	52401	GRPA_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
6/8/2024 23:00	52402	GRPA_T2	1	4	3	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
6/8/2024 23:00	52403	GRPA_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/8/2024 23:25	52401	GRPA_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
6/8/2024 23:25	52404	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
6/8/2024 23:25	52402	GRPA_T2	3	12	9	0.4	0.32	-0.08	0	0	0	0	0	0	0	0
6/8/2024 23:25	52403	GRPA_T2	2	2	0	0.5	0.8	0.3	-0.51	-0.52	0	0	0	0	0	0
6/8/2024 23:42	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
6/8/2024 23:43	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
6/9/2024 0:00	60101	COCA_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
6/9/2024 0:12	65001	NEFF_T2	235	242	7	0.47	0.56	0.09	0	0	0	0	0	0	0	0
6/9/2024 0:12	65003	NEFF_T2	77	107	30	0.21	0.27	0.06	0	0	0	0	0	0	0	0
6/9/2024 0:12	65004	NEFF_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
6/9/2024 0:27	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
6/9/2024 0:28	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
6/9/2024 0:31	47002	HUGH_T2	2	8	6	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
6/9/2024 0:31	47001	HUGH_T2	0	0	0	0	0	0	-0.94	-0.9	0	0	0	0	0	0
6/9/2024 1:54	67605	WARW_T1	96	173	77	0.34	0.29	-0.05	0	0	0	0	0	0	0	0
6/9/2024 1:54	67603	WARW_T1	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
6/9/2024 2:21	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	900	900	0
6/9/2024 2:22	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	900	900	0
6/9/2024 3:06	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	900	900	0
6/9/2024 3:07	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	900	900	0
6/9/2024 3:29	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.97	1	1	0	900	900	0
6/9/2024 3:30	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.97	1	1	0	900	900	0
6/9/2024 3:32	61701	ELIZ_T1	1	1	0	5.6	5.7	0.1	-0.06	-0.1	0	0	0	0	0	0
6/9/2024 3:50	65901	SAKR_T2	1	1	0	8.8	8.8	0	-1.29	-1.3	1	1	0	900	900	0
6/9/2024 3:52	43402	BENT_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	900	900	0
6/9/2024 3:53	43402	BENT_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	900	900	0
6/9/2024 6:54	15001	BLMO_T1	4	3	-1	0.33	0.37	0.04	0	0	0	0	0	0	0	0
6/9/2024 7:28	53502	EVIL_T2	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
6/9/2024 7:28	53501	EVIL_T2	4	4	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
6/9/2024 7:37	20403	ASHF_T2	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
6/9/2024 7:42	63303	GREE_T1	0	0	0	0	0	0	-1.36	-1.29	2	2	0	1800	1800	0
6/9/2024 8:10	43202	MVIL_T2	1	0	-1	0.3	0	-0.3	-0.71	-0.71	0	0	0	0	0	0
6/9/2024 8:32	66103	REAM_T2	0	0	0	0	0	0	1.28	1.29	0	0	0	0	0	0
6/9/2024 8:34	24204	PROV_T3	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
6/9/2024 8:34	24201	PROV_T3	1	1	0	6.3	6.4	0.1	-1.42	-1.41	1	1	0	1200	1200	0
6/9/2024 8:38	59101	WALK_T2	0	0	0	0	0	0	0.98	1.12	0	0	0	0	0	0
6/9/2024 8:59	46801	HEPB_T2	2	2	0	0.55	0.4	-0.15	0.62	0.62	0	0	0	0	0	0
6/9/2024 9:00	46803	HEPB_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
6/9/2024 9:00	52101	MEIS_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/9/2024 9:00	52102	MEIS_T1	105	9	-96	0.18	0.18	0	0	0	0	0	0	0	0	0
6/9/2024 9:00	46801	HEPB_T2	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
6/9/2024 9:09	47001	HUGH_T2	0	0	0	0	0	0	-0.86	-0.77	0	0	0	0	0	0
6/9/2024 9:09	47002	HUGH_T2	0	30	30	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 9:10	47002	HUGH_T2	0	30	30	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 9:10	47001	HUGH_T2	0	0	0	0	0	0	-0.86	-0.77	0	0	0	0	0	0
6/9/2024 9:12	56803	BENV_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
6/9/2024 9:12	56801	BENV_T1	2	5	3	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
6/9/2024 9:15	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 9:16	46801	HEPB_T2	2	2	0	0.35	0.2	-0.15	0.62	0.63	0	0	0	0	0	0
6/9/2024 9:17	40101	HUNT_T2	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
6/9/2024 9:27	40101	HUNT_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
6/9/2024 9:30	52004	LING_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
6/9/2024 9:38	20403	ASHF_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
6/9/2024 9:38	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 9:42	21202	ECAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 9:42	21204	ECAR_T2	1	1	0	0	0.6	0.6	0	0	0	0	0	0	0	0
6/9/2024 9:42	21206	ECAR_T2	10	6	-4	1.22	1.7	0.48	-0.38	-0.35	0	0	0	0	0	0
6/9/2024 9:43	40101	HUNT_T2	0	0	0	0	0	0	-0.65	-0.6	0	0	0	0	0	0
6/9/2024 9:48	56501	ROCK_T2	0	0	0	0	0	0	-1.22	-1.2	0	0	0	0	0	0
6/9/2024 9:48	60605	NCOL_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
6/9/2024 9:50	56501	ROCK_T2	0	0	0	0	0	0	-1.22	-1.2	0	0	0	0	0	0
6/9/2024 9:52	59101	WALK_T2	0	0	0	0	0	0	4.44	4.19	0	0	0	0	0	0
6/9/2024 9:52	56501	ROCK_T2	0	0	0	0	0	0	-1.2	-1.19	0	0	0	0	0	0
6/9/2024 9:52	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 9:53	56501	ROCK_T2	0	0	0	0	0	0	-1.2	-1.19	0	0	0	0	0	0
6/9/2024 9:54	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 9:54	59101	WALK_T2	0	0	0	0	0	0	1.48	1.4	0	0	0	0	0	0
6/9/2024 9:55	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 9:55	43202	MVIL_T2	1	1	0	0.1	0.6	0.5	-1.38	-1.38	0	0	0	0	0	0
6/9/2024 9:55	59101	WALK_T2	0	0	0	0	0	0	1.48	1.4	0	0	0	0	0	0
6/9/2024 9:57	43202	MVIL_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
6/9/2024 9:57	43201	MVIL_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
6/9/2024 9:57	10801	OHH_T1	0	0	0	0	0	0	1.25	1.36	2	2	0	1500	1500	0
6/9/2024 10:00	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 10:00	52101	MEIS_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 10:00	56802	BENV_T2	1	1	0	0.1	0.2	0.1	-1.28	-1.26	0	0	0	0	0	0
6/9/2024 10:00	64701	LITI_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
6/9/2024 10:00	64203	KINZ_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
6/9/2024 10:00	64201	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 10:00	41902	REED_T1	0	2	2	0	0.55	0.55	0.94	0.94	0	0	0	0	0	0
6/9/2024 10:00	24201	PROV_T3	1	2	1	6.3	6.1	-0.2	-1.38	-1.37	1	1	0	1200	1200	0
6/9/2024 10:00	13503	MCMI_T2	4	3	-1	0.25	0.27	0.02	-0.97	-0.96	0	0	0	0	0	0
6/9/2024 10:00	55002	NEWP_T1	7	4	-3	0.43	0.55	0.12	-0.52	-0.51	0	0	0	0	0	0
6/9/2024 10:00	40505	CRES_T1	3	3	0	4.47	4.43	-0.04	0.32	0.33	0	0	0	0	0	0
6/9/2024 10:00	67502	WEWI_T2	0	0	0	0	0	0	-1.43	-1.41	1	1	0	900	900	0
6/9/2024 10:00	55001	NEWP_T1	1	4	3	0.1	0.38	0.28	0	0	0	0	0	0	0	0
6/9/2024 10:00	64204	KINZ_T1	1	1	0	0.5	1.4	0.9	0	0	0	0	0	0	0	0
6/9/2024 10:00	52102	MEIS_T1	13	10	-3	0.17	0.4	0.23	0	0	0	0	0	0	0	0
6/9/2024 10:00	24204	PROV_T3	1	1	0	6.3	5.9	-0.4	0	0	0	0	0	0	0	0
6/9/2024 10:00	61701	ELIZ_T1	1	2	1	3.7	2.55	-1.15	-0.18	-0.14	0	0	0	0	0	0
6/9/2024 10:00	59101	WALK_T2	0	0	0	0	0	0	1.48	1.4	0	0	0	0	0	0
6/9/2024 10:03	47401	PENS_T1	0	0	0	0	0	0	0.87	1.04	0	0	0	0	0	0
6/9/2024 10:05	47401	PENS_T1	0	0	0	0	0	0	0.87	1.04	0	0	0	0	0	0
6/9/2024 10:06	45902	AUBU_T1	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
6/9/2024 10:06	67503	WEWI_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
6/9/2024 10:07	55002	NEWP_T1	7	4	-3	0.43	0.55	0.12	-0.17	-0.17	0	0	0	0	0	0
6/9/2024 10:07	55001	NEWP_T1	1	4	3	0.1	0.38	0.28	0	0	0	0	0	0	0	0
6/9/2024 10:07	41902	REED_T1	0	2	2	0	0.55	0.55	0.94	0.94	0	0	0	0	0	0
6/9/2024 10:08	13503	MCMI_T2	4	3	-1	0.25	0.27	0.02	-0.96	-0.95	0	0	0	0	0	0
6/9/2024 10:09	20403	ASHF_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/9/2024 10:09	45901	AUBU_T1	0	0	0	0	0	0	1.08	1.08	0	0	0	0	0	0
6/9/2024 10:09	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 10:10	56801	BENV_T1	12	18	6	0.52	0.63	0.11	-0.95	-0.93	2	2	0	1200	1200	0
6/9/2024 10:10	56803	BENV_T1	1	2	1	0.3	1.1	0.8	0	0	0	0	0	0	0	0
6/9/2024 10:10	21203	ECAR_T1	1	1	0	0.3	0.5	0.2	0.5	0.51	0	0	0	0	0	0
6/9/2024 10:11	44703	MUNC_T2	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
6/9/2024 10:11	58402	MORO_T1	0	0	0	0	0	0	-0.37	-0.38	2	2	0	1500	1500	0
6/9/2024 10:12	41801	GOCI_T2	0	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0
6/9/2024 10:13	46803	HEPB_T2	1	0	-1	0.6	0	-0.6	0.5	0.51	0	0	0	0	0	0
6/9/2024 10:13	46801	HEPB_T2	2	1	-1	0.1	0.1	0	0.65	0.66	0	0	0	0	0	0
6/9/2024 10:13	20603	GRWO_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
6/9/2024 10:13	10801	CHHI_T1	0	0	0	0	0	0	-1.36	-1.24	2	2	0	1500	1500	0
6/9/2024 10:14	46803	HEPB_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/9/2024 10:14	46801	HEPB_T2	2	1	-1	0.1	0.1	0	0.65	0.66	0	0	0	0	0	0
6/9/2024 10:14	41502	FAIR_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
6/9/2024 10:15	52101	MEIS_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
6/9/2024 10:15	52102	MEIS_T1	10	20	10	0.27	0.29	0.02	0	0	0	0	0	0	0	0
6/9/2024 10:16	59003	MIFF_T1	0	1	1	0	0.2	0.2	0.39	0.4	0	0	0	0	0	0
6/9/2024 10:16	59002	MIFF_T1	3	5	2	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
6/9/2024 10:16	59001	MIFF_T1	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
6/9/2024 10:16	52101	MEIS_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
6/9/2024 10:16	52102	MEIS_T1	10	20	10	0.27	0.29	0.02	0	0	0	0	0	0	0	0
6/9/2024 10:17	42903	MIDD_T2	2	2	0	0.55	0.2	-0.35	0.23	-0.02	0	0	0	0	0	0
6/9/2024 10:18	52102	MEIS_T1	10	20	10	0.27	0.29	0.02	0	0	0	0	0	0	0	0
6/9/2024 10:18	52101	MEIS_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
6/9/2024 10:19	52101	MEIS_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
6/9/2024 10:19	52102	MEIS_T1	10	20	10	0.27	0.29	0.02	0	0	0	0	0	0	0	0
6/9/2024 10:20	58001	WCAR_T1	4	3	-1	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
6/9/2024 10:20	58003	WCAR_T1	1	1	0	1.2	1.1	-0.1	-0.03	-0.03	1	1	0	600	600	0
6/9/2024 10:22	16301	ALPA_T1	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
6/9/2024 10:24	58003	WCAR_T1	1	1	0	1.2	1.1	-0.1	-0.03	-0.02	1	1	0	600	600	0
6/9/2024 10:24	58001	WCAR_T1	4	3	-1	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
6/9/2024 10:24	67605	WARW_T1	5	15	10	0.24	0.32	0.08	-1.08	-1.07	0	0	0	0	0	0
6/9/2024 10:26	62102	ELAN_T1	0	0	0	0	0	0	0.78	0.72	0	0	0	0	0	0
6/9/2024 10:27	20401	ASHF_T2	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
6/9/2024 10:28	45002	LIME_2	1	1	0	4	3.7	-0.3	0	0	0	0	0	0	0	0
6/9/2024 10:28	52403	GRPA_T2	0	1	1	0	0.4	0.4	-0.51	-0.51	0	0	0	0	0	0
6/9/2024 10:28	45003	LIME_2	2	2	0	1.65	1.8	0.15	0.18	0.18	0	0	0	0	0	0
6/9/2024 10:28	62102	ELAN_T1	0	0	0	0	0	0	0.78	0.72	0	0	0	0	0	0
6/9/2024 10:29	62102	ELAN_T1	0	0	0	0	0	0	0.78	0.72	0	0	0	0	0	0
6/9/2024 10:29	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/9/2024 10:30	52101	MEIS_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
6/9/2024 10:30	52102	MEIS_T1	10	20	10	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
6/9/2024 10:32	55002	NEWP_T1	4	6	2	0.48	0.58	0.1	0	0	0	0	0	0	0	0
6/9/2024 10:32	52102	MEIS_T1	10	20	10	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
6/9/2024 10:32	52101	MEIS_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
6/9/2024 10:32	55001	NEWP_T1	4	1	-3	0.38	0.8	0.42	-0.08	-0.07	0	0	0	0	0	0
6/9/2024 10:35	42601	TUSC_T1	0	0	0	0	0	0	-0.59	-0.54	2	2	0	1800	1800	0
6/9/2024 10:39	43202	MVIL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/9/2024 10:39	43201	MVIL_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
6/9/2024 10:41	40702	FRLD_T1	0	4	4	0	0.1	0.1	-1.25	-1.23	1	1	0	1200	1200	0
6/9/2024 10:42	41801	GOCI_T2	3	0	-3	0.87	0	-0.87	0	0	0	0	0	0	0	0
6/9/2024 10:42	43202	MVIL_T2	1	1	0	0.5	0.7	0.2	-1.37	-1.36	0	0	0	0	0	0
6/9/2024 10:43	43202	MVIL_T2	1	1	0	0.5	0.7	0.2	-0.68	-0.68	0	0	0	0	0	0
6/9/2024 10:43	63801	HEMP_T1	0	1	1	0	0.2	0.2	-1.05	-1.02	1	1	0	900	900	0
6/9/2024 10:43	41801	GOCI_T2	3	0	-3	0.87	0	-0.87	0	0	0	0	0	0	0	0
6/9/2024 10:43	63804	HEMP_T1	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
6/9/2024 10:44	21204	ECAR_T2	1	1	0	0.5	0.4	-0.1	-0.72	-0.71	0	0	0	0	0	0
6/9/2024 10:44	21206	ECAR_T2	1	8	7	8	2.77	-5.23	0	0	0	0	0	0	0	0
6/9/2024 10:44	65503	MOJO_T2	0	2	2	0	0.65	0.65	-1.05	-1	1	1	0	900	900	0
6/9/2024 10:45	21206	ECAR_T2	6	7	1	1.52	2.57	1.05	-0.22	-0.19	0	0	0	0	0	0
6/9/2024 10:45	21204	ECAR_T2	1	1	0	0	0.4	0.4	0	0	0	0	0	0	0	0
6/9/2024 10:46	64202	KINZ_T1	3	3	0	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
6/9/2024 10:46	64201	KINZ_T1	1	1	0	1.3	1.1	-0.2	-0.54	-0.55	2	2	0	1200	1200	0
6/9/2024 10:46	64204	KINZ_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/9/2024 10:48	64202	KINZ_T1	3	3	0	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
6/9/2024 10:48	64203	KINZ_T1	0	0	0	0	0	0	0.28	0.33	0	0	0	0	0	0
6/9/2024 10:48	64201	KINZ_T1	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
6/9/2024 10:48	64101	REFR_T1	0	0	0	0	0	0	0.52	0.55	0	0	0	0	0	0
6/9/2024 10:48	41902	REED_T1	3	1	-2	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/9/2024 10:48	64204	KINZ_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/9/2024 10:48	41901	REED_T1	0	0	0	0	0	0	-2.02	-2.01	1	1	0	900	900	0
6/9/2024 10:49	64101	REFR_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
6/9/2024 10:49	65503	MOJO_T2	2	2	0	0.25	0.65	0.4	-1.05	-1	1	1	0	900	900	0
6/9/2024 10:49	27603	PIRI_T2	0	0	0	0	0	0	-1.02	-0.93	2	2	0	1800	1800	0
6/9/2024 10:50	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 10:50	56501	ROCK_T2	0	1	1	0	0	0	-3.44	-3.38	0	0	0	0	0	0
6/9/2024 10:50	60605	NCOL_T2	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
6/9/2024 10:50	67605	WARW_T1	15	6	-9	0.32	0.47	0.15	-1.07	-1.06	0	0	0	0	0	0
6/9/2024 10:50	64101	REFR_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
6/9/2024 10:51	56501	ROCK_T2	0	1	1	0	0	0	-2.29	-2.26	0	0	0	0	0	0
6/9/2024 10:51	64101	REFR_T1	0	0	0	0	0	0	0.83	0.88	0	0	0	0	0	0
6/9/2024 10:52	45902	AUBU_T1	3	3	0	1.3	1.5	0.2	-0.48	-0.46	0	0	0	0	0	0
6/9/2024 10:52	64101	REFR_T1	0	0	0	0	0	0	0.55	0.59	0	0	0	0	0	0
6/9/2024 10:52	45901	AUBU_T1	0	0	0	0	0	0	1.07	1.08	0	0	0	0	0	0
6/9/2024 10:52	58402	MORO_T1	0	0	0	0	0	0	-0.4	-0.31	2	2	0	1500	1500	0
6/9/2024 10:53	56501	ROCK_T2	0	1	1	0	0	0	-1.13	-1.11	0	0	0	0	0	0
6/9/2024 10:54	67603	WARW_T1	0	1	1	0	0.1	0.1	0.01	0.03	0	0	0	0	0	0
6/9/2024 10:54	45902	AUBU_T1	3	3	0	1.3	1.5	0.2	-0.48	-0.46	0	0	0	0	0	0
6/9/2024 10:54	60101	COCA_T1	0	1	1	0	0.4	0.4	0.32	0.37	0	0	0	0	0	0
6/9/2024 10:54	67605	WARW_T1	15	6	-9	0.32	0.47	0.15	-4.24	-4.19	0	0	0	0	0	0
6/9/2024 10:55	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 10:55	41502	FAIR_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
6/9/2024 10:55	41501	FAIR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 10:55	58402	MORO_T1	0	0	0	0	0	0	-0.4	-0.31	2	2	0	1500	1500	0
6/9/2024 10:55	44301	BEAV_T2	0	2	2	0	0	0	-0.36	-0.35	1	1	0	600	600	0
6/9/2024 10:56	60101	COCA_T1	0	1	1	0	0.4	0.4	0.32	0.37	0	0	0	0	0	0
6/9/2024 10:56	45902	AUBU_T1	3	3	0	1.3	1.5	0.2	-0.96	-0.92	0	0	0	0	0	0
6/9/2024 10:56	44301	BEAV_T2	0	2	2	0	0	0	-0.36	-0.35	1	1	0	600	600	0
6/9/2024 10:57	61803	EELI_T2	0	0	0	0	0	0	0.26	0.27	1	1	0	600	600	0
6/9/2024 10:57	21204	ECAR_T2	1	1	0	0	0.4	0.4	0	0	0	0	0	0	0	0
6/9/2024 10:57	45902	AUBU_T1	3	3	0	1.3	1.5	0.2	-0.48	-0.46	0	0	0	0	0	0
6/9/2024 10:57	20603	GRWO_T2	0	1	1	0	0.1	0.1	0.42	0.47	0	0	0	0	0	0
6/9/2024 10:57	61801	EELI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/9/2024 10:57	21206	ECAR_T2	6	7	1	1.52	2.57	1.05	-0.09	-0.09	0	0	0	0	0	0
6/9/2024 10:58	60101	COCA_T1	0	1	1	0	0.4	0.4	0.32	0.37	0	0	0	0	0	0
6/9/2024 10:58	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 10:59	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 10:59	63804	HEMP_T1	1	1	0	5.3	5.6	0.3	-0.17	-0.15	0	0	0	0	0	0
6/9/2024 10:59	44502	HAMI_T2	1	1	0	2.3	2.3	0	-0.73	-0.74	0	0	0	0	0	0
6/9/2024 11:00	12003	HATF_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 11:00	12006	HATF_T1	0	2	2	0	0.85	0.85	-0.08	-0.09	0	0	0	0	0	0
6/9/2024 11:01	46504	LOHA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 11:01	63801	HEMP_T1	1	4	3	0.2	0.38	0.18	0	0	0	0	0	0	0	0
6/9/2024 11:01	48302	ORWI_T2	2	2	0	0.35	0.35	0	-0.6	-0.58	0	0	0	0	0	0
6/9/2024 11:01	46506	LOHA_T1	1	1	0	0.5	0.9	0.4	-0.73	-0.74	0	0	0	0	0	0
6/9/2024 11:01	45003	LIME_2	1	2	1	3.6	2.1	-1.5	0.19	0.2	0	0	0	0	0	0
6/9/2024 11:01	63802	HEMP_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
6/9/2024 11:01	45002	LIME_2	1	2	1	3.7	3.6	-0.1	0	0	0	0	0	0	0	0
6/9/2024 11:01	63804	HEMP_T1	1	1	0	5.6	5.2	-0.4	0	0	0	0	0	0	0	0
6/9/2024 11:01	45001	LIME_2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
6/9/2024 11:03	45003	LIME_2	1	2	1	3.6	2.1	-1.5	0.19	0.2	0	0	0	0	0	0
6/9/2024 11:03	45001	LIME_2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
6/9/2024 11:03	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 11:03	45002	LIME_2	1	2	1	3.7	3.6	-0.1	0	0	0	0	0	0	0	0
6/9/2024 11:03	65206	PRIN_T4	1	2	1	3.3	0	-3.3	0	0	0	0	0	0	0	0
6/9/2024 11:04	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.04	-0.05	0	0	0	0	0	0
6/9/2024 11:04	66504	SMAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/9/2024 11:05	54601	SUMM_T2	0	0	0	0	0	0	-1.75	-1.72	2	2	0	2100	2100	0
6/9/2024 11:05	65205	PRIN_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
6/9/2024 11:05	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 11:05	66504	SMAN_T2	1	1	0	0.2	0.1	-0.1	-4.47	-4.44	3	3	0	3600	3600	0
6/9/2024 11:05	17804	GILB_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
6/9/2024 11:07	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 11:09	45902	AUBU_T1	3	3	0	1	1.5	0.5	-0.46	-0.44	0	0	0	0	0	0
6/9/2024 11:10	48302	ORWI_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
6/9/2024 11:11	63302	GREE_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
6/9/2024 11:12	20601	GRWO_T2	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
6/9/2024 11:12	45902	AUBU_T1	3	3	0	1	1.5	0.5	-0.92	-0.88	0	0	0	0	0	0
6/9/2024 11:12	62102	ELAN_T1	0	0	0	0	0	0	0.81	0.83	0	0	0	0	0	0
6/9/2024 11:12	20603	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 11:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 11:16	60501	NMAN_T2	3	3	0	4.8	4.6	-0.2	0	0	0	0	0	0	0	0
6/9/2024 11:16	60504	NMAN_T2	1	2	1	0.2	0.8	0.6	-0.56	-0.54	1	1	0	1200	1200	0
6/9/2024 11:17	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 11:19	12803	MICK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 11:19	12801	MICK_T1	0	0	0	0	0	0	-0.98	-0.96	1	1	0	600	600	0
6/9/2024 11:21	43105	SMIL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/9/2024 11:21	43101	SMIL_T2	2	1	-1	0.1	1.1	1	0	0	0	0	0	0	0	0
6/9/2024 11:21	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 11:21	43103	SMIL_T2	0	5	5	0	0.52	0.52	-1.91	-1.98	0	0	0	0	0	0
6/9/2024 11:21	45402	WBLO_T2	2	2	0	0.75	0.6	-0.15	-1.59	-1.57	1	1	0	900	900	0
6/9/2024 11:21	67605	WARW_T1	4	2	-2	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
6/9/2024 11:21	67603	WARW_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
6/9/2024 11:22	67901	WNHO_T2	23	7	-16	0.25	0.7	0.45	-0.47	-0.47	0	0	0	0	0	0
6/9/2024 11:22	16302	ALPA_T2	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
6/9/2024 11:22	43103	SMIL_T2	0	5	5	0	0.52	0.52	-1.91	-1.98	0	0	0	0	0	0
6/9/2024 11:22	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 11:22	43105	SMIL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/9/2024 11:22	43101	SMIL_T2	2	1	-1	0.1	1.1	1	0	0	0	0	0	0	0	0
6/9/2024 11:23	16302	ALPA_T2	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
6/9/2024 11:24	59101	WALK_T2	0	0	0	0	0	0	1.1	1.29	0	0	0	0	0	0
6/9/2024 11:24	59102	WALK_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/9/2024 11:25	67605	WARW_T1	4	2	-2	0.6	0.25	-0.35	-1.03	-1.02	0	0	0	0	0	0
6/9/2024 11:26	21204	ECAR_T2	1	1	0	0.3	0.4	0.1	-0.71	-0.71	0	0	0	0	0	0
6/9/2024 11:26	21206	ECAR_T2	5	2	-3	1.6	7.3	5.7	0	0	0	0	0	0	0	0
6/9/2024 11:26	16302	ALPA_T2	0	0	0	0	0	0	1.33	1.35	0	0	0	0	0	0
6/9/2024 11:27	21206	ECAR_T2	5	2	-3	1.6	7.3	5.7	-0.12	0.04	0	0	0	0	0	0
6/9/2024 11:27	21204	ECAR_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/9/2024 11:28	63601	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 11:28	63501	HEID_TBK1-2	0	0	0	0	0	0	0.58	0.08	0	0	0	0	0	0
6/9/2024 11:28	63602	LETO_T1	1	3	2	0.2	0.47	0.27	-0.15	-0.15	0	0	0	0	0	0
6/9/2024 11:28	40101	HUNT_T2	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
6/9/2024 11:29	24702	FLND_T2	0	1	1	0	0.5	0.5	-0.27	-0.39	1	1	0	1200	1200	0
6/9/2024 11:29	52002	LING_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
6/9/2024 11:29	63601	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 11:29	63602	LETO_T1	1	3	2	0.2	0.47	0.27	-0.15	-0.15	0	0	0	0	0	0
6/9/2024 11:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 11:29	54504	ENOL_T2	0	0	0	0	0	0	-1.04	-1.03	1	1	0	600	600	0
6/9/2024 11:30	59301	MCAL_T1	0	4	4	0	0.33	0.33	-1.28	-1.27	0	0	0	0	0	0
6/9/2024 11:30	63601	LETO_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/9/2024 11:30	40101	HUNT_T2	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
6/9/2024 11:30	63602	LETO_T1	2	2	0	0.5	0.55	0.05	-0.15	-0.15	0	0	0	0	0	0
6/9/2024 11:31	63602	LETO_T1	2	2	0	0.5	0.55	0.05	-0.15	-0.15	0	0	0	0	0	0
6/9/2024 11:31	63601	LETO_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/9/2024 11:31	66501	MOJO_T1	0	0	0	0	0	0	-1.1	-1.08	1	1	0	900	900	0
6/9/2024 11:32	52002	LING_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
6/9/2024 11:33	55003	NEWP_T2	0	0	0	0	0	0	-0.89	-0.88	1	1	0	600	600	0
6/9/2024 11:33	66702	STRA_T1	0	0	0	0	0	0	-1.31	-1.17	2	2	0	1500	1500	0
6/9/2024 11:33	66701	STRA_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
6/9/2024 11:36	60101	COCA_T1	2	4	2	0.4	0.38	-0.02	0.41	0.43	0	0	0	0	0	0
6/9/2024 11:37	16103	BING_T2	0	0	0	0	0	0	-0.76	-0.76	2	2	0	1500	1500	0
6/9/2024 11:37	16101	BING_T2	1	2	1	9.8	9.8	0	0	0	0	0	0	0	0	0
6/9/2024 11:37	46002	BERW_T2	0	0	0	0	0	0	-1.28	-1.28	1	1	0	900	900	0
6/9/2024 11:38	16102	BING_T2	0	0	0	0	0	0	1.07	1.07	0	0	0	0	0	0
6/9/2024 11:38	16101	BING_T2	1	2	1	9.8	9.8	0	0	0	0	0	0	0	0	0
6/9/2024 11:39	10801	OHHI_T1	3	0	-3	0.5	0	-0.5	-1.18	-1.16	2	2	0	1500	1500	0
6/9/2024 11:39	16103	BING_T2	0	0	0	0	0	0	-0.76	-0.76	2	2	0	1500	1500	0
6/9/2024 11:39	16101	BING_T2	1	2	1	9.8	9.8	0	0	0	0	0	0	0	0	0
6/9/2024 11:39	16102	BING_T2	0	0	0	0	0	0	1.07	1.07	0	0	0	0	0	0
6/9/2024 11:41	24702	FLND_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/9/2024 11:41	14203	EALL_T1	0	0	0	0	0	0	-0.05	-0.09	1	1	0	1200	1200	0
6/9/2024 11:41	10801	OHHI_T1	3	0	-3	0.5	0	-0.5	-1.18	-1.16	2	2	0	1500	1500	0
6/9/2024 11:41	24701	FLND_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
6/9/2024 11:42	41801	GOCI_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/9/2024 11:42	41802	GOCI_T2	1	0	-1	6.8	0	-6.8	0	0	0	0	0	0	0	0
6/9/2024 11:44	25402	LAHA_T2	1	1	0	0.8	0.3	-0.5	-0.43	-0.63	0	0	0	0	0	0
6/9/2024 11:45	52401	GRPA_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
6/9/2024 11:45	52403	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 11:46	13601	RICH_T2	0	0	0	0	0	0	0.21	0.25	1	1	0	600	600	0
6/9/2024 11:46	13606	RICH_T2	1	1	0	6.8	7	0.2	0	0	0	0	0	0	0	0
6/9/2024 11:47	26803	JAFR_T1	0	0	0	0	0	0	-0.12	-0.13	1	1	0	900	900	0
6/9/2024 11:48	64101	REFR_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
6/9/2024 11:48	45002	LIME_2	1	1	0	4	4.6	0.6	0.58	0.59	0	0	0	0	0	0
6/9/2024 11:48	45003	LIME_2	1	1	0	3.4	3.6	0.2	0	0	0	0	0	0	0	0
6/9/2024 11:48	45001	LIME_2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/9/2024 11:49	64101	REFR_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
6/9/2024 11:50	64101	REFR_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
6/9/2024 11:50	66502	SMAN_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/9/2024 11:50	66505	SMAN_T2	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
6/9/2024 11:50	66504	SMAN_T2	1	1	0	0.8	0.3	-0.5	-1.53	-1.53	1	1	0	1200	1200	0
6/9/2024 11:51	66703	STRA_T1	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
6/9/2024 11:51	66701	STRA_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
6/9/2024 11:51	64101	REFR_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
6/9/2024 11:52	66502	SMAN_T2	2	1	-1	0.2	0.1	-0.1	-0.06	-0.07	0	0	0	0	0	0
6/9/2024 11:52	66504	SMAN_T2	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
6/9/2024 11:52	66505	SMAN_T2	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
6/9/2024 11:52	64101	REFR_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
6/9/2024 11:52	42701	AUGU_T1	57	64	7	0.65	0.87	0.22	0	0	0	0	0	0	0	0
6/9/2024 11:53	45403	WBLO_T1	0	0	0	0	0	0	0	0	3	3	0	3600	3600	0
6/9/2024 11:53	54602	SUMM_T2	0	0	0	0	0	0	-2.26	-2.26	1	1	0	600	600	0
6/9/2024 11:54	67904	WNHO_T1	0	0	0	0	0	0	-1.09	-1.09	1	1	0	1200	1200	0
6/9/2024 11:54	42701	AUGU_T1	57	64	7	0.65	0.87	0.22	0	0	0	0	0	0	0	0
6/9/2024 11:54	67903	WNHO_T1	0	0	0	0	0	0	0.67	0.67	1	1	0	1200	1200	0
6/9/2024 11:55	43402	BENT_T1	0	3	3	0	0.67	0.67	-0.93	-0.93	1	1	0	900	900	0
6/9/2024 11:55	43401	BENT_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 11:56	42701	AUGU_T1	57	64	7	0.65	0.87	0.22	0	0	0	0	0	0	0	0
6/9/2024 11:56	46206	DANV_T2	1	2	1	0.7	0.6	-0.1	2.06	2.1	1	1	0	1200	1200	0
6/9/2024 11:56	43402	BENT_T1	0	3	3	0	0.67	0.67	-0.93	-0.93	1	1	0	900	900	0
6/9/2024 11:56	43401	BENT_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 11:57	43401	BENT_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 11:57	17802	GILB_T1	1	2	1	0.3	1	0.7	0.08	0.09	0	0	0	0	0	0
6/9/2024 11:57	43402	BENT_T1	0	3	3	0	0.67	0.67	-0.93	-0.93	1	1	0	900	900	0
6/9/2024 11:57	63501	HEID_TBK1-2	0	3	3	0	0.17	0.17	-0.27	-0.24	1	1	0	900	900	0
6/9/2024 11:58	17804	GILB_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
6/9/2024 11:58	52004	LING_T2	0	1	1	0	0.2	0.2	-0.15	-0.1	0	0	0	0	0	0
6/9/2024 11:58	46206	DANV_T2	1	2	1	0.7	0.6	-0.1	4.11	4.2	2	2	0	2400	2400	0
6/9/2024 11:59	63801	HEMP_T1	5	2	-3	0.34	0.15	-0.19	0	0	0	0	0	0	0	0
6/9/2024 11:59	46504	LOHA_T1	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
6/9/2024 11:59	46506	LOHA_T1	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
6/9/2024 11:59	63802	HEMP_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
6/9/2024 11:59	63803	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/9/2024 11:59	40101	HUNT_T2	0	0	0	0	0	0	-0.59	-0.58	0	0	0	0	0	0
6/9/2024 11:59	63804	HEMP_T1	2	1	-1	2.75	5.5	2.75	0	0	0	0	0	0	0	0
6/9/2024 12:00	63801	HEMP_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
6/9/2024 12:00	46504	LOHA_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/9/2024 12:00	63802	HEMP_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
6/9/2024 12:00	63804	HEMP_T1	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
6/9/2024 12:00	46501	LOHA_T1	0	0	0	0	0	0	-0.28	-0.29	1	1	0	1200	1200	0
6/9/2024 12:01	63801	HEMP_T1	2	1	-1	0.15	0.1	-0.05	-0.66	-0.78	1	1	0	900	900	0
6/9/2024 12:01	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	-0.47	-0.45	0	0	0	0	0	0
6/9/2024 12:01	63803	HEMP_T1	0	0	0	0	0	0	0.74	0.76	0	0	0	0	0	0
6/9/2024 12:01	63804	HEMP_T1	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
6/9/2024 12:02	52004	LING_T2	0	1	1	0	0.5	0.5	-0.15	-0.1	0	0	0	0	0	0
6/9/2024 12:03	52004	LING_T2	0	1	1	0	0.5	0.5	-0.15	-0.1	0	0	0	0	0	0
6/9/2024 12:03	65804	RTWN_T1	0	0	0	0	0	0	0.25	0.26	1	1	0	600	600	0
6/9/2024 12:04	14603	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/9/2024 12:04	14601	SWHI_T1	0	0	0	0	0	0	-0.81	-0.8	0	0	0	0	0	0
6/9/2024 12:04	65901	SAKR_T2	1	1	0	8.1	7.7	-0.4	-1.51	-1.26	2	2	0	1500	1500	0
6/9/2024 12:04	64802	ORWL_T2	2	2	0	0.4	0.45	0.05	-1.09	-1.06	0	0	0	0	0	0
6/9/2024 12:05	59101	WALK_T2	0	0	0	0	0	0	1.33	1.21	0	0	0	0	0	0
6/9/2024 12:05	59102	WALK_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/9/2024 12:05	65604	QVIL_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
6/9/2024 12:05	65603	QVIL_T2	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
6/9/2024 12:06	58003	WCAR_T1	1	1	0	0.9	1.3	0.4	-0.01	0	1	1	0	600	600	0
6/9/2024 12:06	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 12:06	65601	QVIL_T2	0	0	0	0	0	0	-0.8	-0.79	1	1	0	900	900	0
6/9/2024 12:06	44301	BEAV_T2	0	0	0	0	0	0	-0.32	-0.31	1	1	0	600	600	0
6/9/2024 12:06	42802	SELI_T1	0	0	0	0	0	0	-0.64	-0.77	1	1	0	900	900	0
6/9/2024 12:07	42802	SELI_T1	0	0	0	0	0	0	-0.64	-0.77	1	1	0	900	900	0
6/9/2024 12:08	54601	SUMM_T2	0	0	0	0	0	0	-1.63	-1.62	2	2	0	2100	2100	0
6/9/2024 12:08	14603	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/9/2024 12:08	59101	WALK_T2	0	0	0	0	0	0	1.21	1.2	0	0	0	0	0	0
6/9/2024 12:08	14601	SWHI_T1	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
6/9/2024 12:08	59102	WALK_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/9/2024 12:08	60801	BUCK_T1	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
6/9/2024 12:08	60803	BUCK_T1	0	0	0	0	0	0	-1.08	-1.08	1	1	0	600	600	0
6/9/2024 12:09	59201	THOM_T1	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
6/9/2024 12:09	60801	BUCK_T1	2	2	0	0.15	0.1	-0.05	-0.79	-0.78	1	1	0	600	600	0
6/9/2024 12:09	45501	DERR_T2	2	1	-1	0.4	0.3	-0.1	-1.47	-1.44	4	4	0	3600	3600	0
6/9/2024 12:09	59101	WALK_T2	0	0	0	0	0	0	2.42	2.39	0	0	0	0	0	0
6/9/2024 12:09	62105	ELAN_T1	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
6/9/2024 12:09	60803	BUCK_T1	0	0	0	0	0	0	-2.16	-2.15	2	2	0	1200	1200	0
6/9/2024 12:09	59202	THOM_T1	5	3	-2	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
6/9/2024 12:09	59102	WALK_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/9/2024 12:10	62105	ELAN_T1	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
6/9/2024 12:10	45501	DERR_T2	2	1	-1	0.4	0.3	-0.1	-0.73	-0.72	2	2	0	1800	1800	0
6/9/2024 12:11	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/9/2024 12:11	10901	COOP_T2	0	0	0	0	0	0	1.04	1.03	0	0	0	0	0	0
6/9/2024 12:11	10903	COOP_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 12:11	52402	GRPA_T2	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
6/9/2024 12:12	60803	BUCK_T1	0	0	0	0	0	0	-1.08	-1.08	1	1	0	600	600	0
6/9/2024 12:12	53903	HALI_T2	5	8	3	0.82	0.79	-0.03	-0.06	-0.05	0	0	0	0	0	0
6/9/2024 12:12	46206	DANV_T2	1	3	2	0.6	0.6	0	2.1	2.07	1	1	0	1200	1200	0
6/9/2024 12:12	60801	BUCK_T1	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
6/9/2024 12:12	53902	HALI_T2	2	3	1	2.45	2.27	-0.18	0	0	0	0	0	0	0	0
6/9/2024 12:13	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/9/2024 12:13	52402	GRPA_T2	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
6/9/2024 12:13	45501	DERR_T2	2	1	-1	0.4	0.3	-0.1	-0.73	-0.72	2	2	0	1800	1800	0
6/9/2024 12:13	41801	GOCI_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/9/2024 12:13	10903	COOP_T2	1	0	-1	0.1	0	-0.1	-0.22	-0.21	1	1	0	600	600	0
6/9/2024 12:13	63501	HEID_TBK1-2	3	9	6	0.17	0.13	-0.04	-0.49	-0.51	2	2	0	1800	1800	0
6/9/2024 12:14	43202	MVIL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
6/9/2024 12:14	56503	ROCK_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/9/2024 12:14	45801	HEGI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/9/2024 12:14	56501	ROCK_T2	1	2	1	0.1	0.4	0.3	-1.03	-1.01	0	0	0	0	0	0
6/9/2024 12:14	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	-0.45	-0.43	0	0	0	0	0	0
6/9/2024 12:14	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 12:14	60103	COCA_T2	0	0	0	0	0	0	0.35	0.35	1	1	0	900	900	0
6/9/2024 12:14	43201	MVIL_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
6/9/2024 12:15	42903	MIDD_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
6/9/2024 12:15	53903	HALI_T2	6	8	2	0.83	0.74	-0.09	0	0	0	0	0	0	0	0
6/9/2024 12:15	17802	GILB_T1	1	1	0	0.7	0.5	-0.2	0.09	0.1	0	0	0	0	0	0
6/9/2024 12:15	53902	HALI_T2	3	3	0	2.03	2.17	0.14	0	0	0	0	0	0	0	0
6/9/2024 12:15	40101	HUNT_T2	0	0	0	0	0	0	-0.58	-0.57	0	0	0	0	0	0
6/9/2024 12:15	53901	HALI_T2	0	0	0	0	0	0	-1.57	-1.56	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/9/2024 12:15	42902	MIDD_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
6/9/2024 12:17	52001	LING_T1	0	0	0	0	0	0	-0.85	-0.84	0	0	0	0	0	0
6/9/2024 12:18	52004	LING_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/9/2024 12:18	52002	LING_T2	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
6/9/2024 12:19	67002	STHI_T2	0	0	0	0	0	0	0.77	0.79	0	0	0	0	0	0
6/9/2024 12:20	51005	NHAR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 12:20	58003	WCAR_T1	1	3	2	1.1	0.53	-0.57	0	0	1	1	0	600	600	0
6/9/2024 12:20	51004	NHAR_T1	4	7	3	1.7	1.13	-0.57	-0.37	-0.37	0	0	0	0	0	0
6/9/2024 12:20	51002	NHAR_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
6/9/2024 12:20	51003	NHAR_T1	2	9	7	0.25	0.14	-0.11	0	0	0	0	0	0	0	0
6/9/2024 12:22	60801	BUCK_T1	1	1	0	0.1	0.1	0	-0.78	-0.76	1	1	0	600	600	0
6/9/2024 12:23	60801	BUCK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/9/2024 12:23	60803	BUCK_T1	0	0	0	0	0	0	-1.08	-1.07	1	1	0	600	600	0
6/9/2024 12:24	10105	ALLE_T3	12	7	-5	2.27	0.48	-1.79	0	0	0	0	0	0	0	0
6/9/2024 12:24	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 12:24	58003	WCAR_T1	1	3	2	1.1	0.53	-0.57	0	0	1	1	0	600	600	0
6/9/2024 12:24	10103	ALLE_T3	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
6/9/2024 12:24	10205	ALLE_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 12:25	66502	SMAN_T2	1	1	0	0.1	0.6	0.5	-0.04	-0.04	0	0	0	0	0	0
6/9/2024 12:25	66504	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/9/2024 12:25	66505	SMAN_T2	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
6/9/2024 12:25	60101	COCA_T1	2	5	3	0.15	0.38	0.23	0.46	0.48	0	0	0	0	0	0
6/9/2024 12:26	10805	CHHI_T2	1	1	0	8.8	8.7	-0.1	-0.97	-0.86	0	0	0	0	0	0
6/9/2024 12:26	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 12:26	46206	DANV_T2	2	4	2	0.5	0.65	0.15	0	0	0	0	0	0	0	0
6/9/2024 12:26	46203	DANV_T2	0	0	0	0	0	0	-1.92	-1.91	0	0	0	0	0	0
6/9/2024 12:26	46002	BERW_T2	0	0	0	0	0	0	-1.27	-1.26	1	1	0	900	900	0
6/9/2024 12:27	46203	DANV_T2	0	0	0	0	0	0	-1.92	-1.91	0	0	0	0	0	0
6/9/2024 12:27	10801	CHHI_T1	3	1	-2	0.73	0.1	-0.63	-1.06	-1.08	2	2	0	1500	1500	0
6/9/2024 12:27	46206	DANV_T2	2	4	2	0.5	0.65	0.15	0	0	0	0	0	0	0	0
6/9/2024 12:28	46206	DANV_T2	2	4	2	0.5	0.65	0.15	0	0	0	0	0	0	0	0
6/9/2024 12:28	17401	FOHI_T1	0	0	0	0	0	0	-1.78	-1.77	0	0	0	0	0	0
6/9/2024 12:28	46203	DANV_T2	0	0	0	0	0	0	-1.92	-1.91	0	0	0	0	0	0
6/9/2024 12:29	21206	ECAR_T2	11	17	6	1.83	1.93	0.1	0	0	0	0	0	0	0	0
6/9/2024 12:29	21204	ECAR_T2	1	1	0	0	0.5	0.5	-0.7	-0.7	0	0	0	0	0	0
6/9/2024 12:30	52401	GRPA_T2	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
6/9/2024 12:30	21204	ECAR_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/9/2024 12:30	21206	ECAR_T2	17	11	-6	1.78	2.1	0.32	-0.22	-0.17	0	0	0	0	0	0
6/9/2024 12:30	52403	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/9/2024 12:30	12704	MACU_T1	0	0	0	0	0	0	-1.29	-1.31	1	1	0	600	600	0
6/9/2024 12:31	40101	HUNT_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
6/9/2024 12:32	58201	NEWV_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/9/2024 12:32	58202	NEWV_T1	0	0	0	0	0	0	-0.21	-0.17	0	0	0	0	0	0
6/9/2024 12:32	13503	MCMI_T2	71	237	166	0.19	0.58	0.39	-0.91	-0.9	0	0	0	0	0	0
6/9/2024 12:32	64302	LINC_T2	0	0	0	0	0	0	1.01	0.99	0	0	0	0	0	0
6/9/2024 12:33	12701	MACU_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
6/9/2024 12:33	13606	RICH_T2	1	1	0	7	7.1	0.1	0.87	0.87	0	0	0	0	0	0
6/9/2024 12:33	12703	MACU_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
6/9/2024 12:34	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 12:34	43101	SMIL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/9/2024 12:34	43103	SMIL_T2	5	4	-1	0.42	1.05	0.63	-3.9	-3.89	0	0	0	0	0	0
6/9/2024 12:34	65501	MOJO_T1	0	0	0	0	0	0	-1.08	-1.07	1	1	0	900	900	0
6/9/2024 12:34	43108	SMIL_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 12:34	13503	MCMI_T2	71	237	166	0.19	0.58	0.39	-0.91	-0.9	0	0	0	0	0	0
6/9/2024 12:35	56503	ROCK_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/9/2024 12:35	43108	SMIL_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 12:35	59101	WALK_T2	0	0	0	0	0	0	1.2	1.34	0	0	0	0	0	0
6/9/2024 12:35	59102	WALK_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/9/2024 12:35	43103	SMIL_T2	5	4	-1	0.42	1.05	0.63	-1.95	-1.95	0	0	0	0	0	0
6/9/2024 12:35	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 12:35	43101	SMIL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/9/2024 12:35	12703	MACU_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
6/9/2024 12:35	56501	ROCK_T2	2	3	1	0.4	0.37	-0.03	-2.03	-1.99	0	0	0	0	0	0
6/9/2024 12:35	60301	TWVA_T2	0	0	0	0	0	0	-0.23	-0.3	0	0	0	0	0	0
6/9/2024 12:36	56504	ROCK_T2	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
6/9/2024 12:36	56501	ROCK_T2	2	3	1	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
6/9/2024 12:36	43108	SMIL_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 12:36	55101	WERT_T1	0	0	0	0	0	0	-2.29	-2.2	4	4	0	3000	3000	0
6/9/2024 12:36	48302	ORWI_T2	2	2	0	0.45	0.6	0.15	-0.52	-0.51	0	0	0	0	0	0
6/9/2024 12:36	56503	ROCK_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/9/2024 12:36	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 12:36	43101	SMIL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/9/2024 12:36	43103	SMIL_T2	5	4	-1	0.42	1.05	0.63	-1.95	-1.94	0	0	0	0	0	0
6/9/2024 12:37	41903	REED_T1	0	0	0	0	0	0	-0.64	-0.63	2	2	0	2400	2400	0
6/9/2024 12:37	43101	SMIL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/9/2024 12:37	43103	SMIL_T2	5	4	-1	0.42	1.05	0.63	-1.95	-1.94	0	0	0	0	0	0
6/9/2024 12:37	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.6	0.81	0	0	0	0	0	0
6/9/2024 12:37	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 12:37	20402	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 12:37	43108	SMIL_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 12:38	66203	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 12:38	66201	SISP_T2	0	0	0	0	0	0	-0.27	-0.26	0	0	0	0	0	0
6/9/2024 12:38	56801	BENV_T1	13	16	3	0.58	0.69	0.11	-0.78	-0.77	2	2	0	1200	1200	0
6/9/2024 12:38	56803	BENV_T1	0	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0
6/9/2024 12:39	43101	SMIL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/9/2024 12:39	43103	SMIL_T2	5	4	-1	0.42	1.05	0.63	-1.95	-1.94	0	0	0	0	0	0
6/9/2024 12:39	55105	WERT_T1	0	0	0	0	0	0	-0.25	-0.23	1	1	0	900	900	0
6/9/2024 12:39	43108	SMIL_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 12:39	56803	BENV_T1	0	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0
6/9/2024 12:39	56801	BENV_T1	13	16	3	0.58	0.69	0.11	-2.34	-2.3	6	6	0	3600	3600	0
6/9/2024 12:39	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 12:40	60101	COCA_T1	4	3	-1	0.45	0.3	-0.15	0.48	0.52	0	0	0	0	0	0
6/9/2024 12:40	55102	WERT_T2	0	0	0	0	0	0	-0.59	-1.76	1	1	0	600	600	0
6/9/2024 12:40	56801	BENV_T1	13	16	3	0.58	0.69	0.11	-1.56	-1.54	4	4	0	2400	2400	0
6/9/2024 12:40	21206	ECAR_T2	17	11	-6	1.78	2.1	0.32	-0.17	-0.19	0	0	0	0	0	0
6/9/2024 12:40	21204	ECAR_T2	1	1	0	0.5	0.5	0	-0.7	-0.69	0	0	0	0	0	0
6/9/2024 12:40	42701	AUGU_T1	64	66	2	0.89	1.04	0.15	0	0	0	0	0	0	0	0
6/9/2024 12:40	56803	BENV_T1	0	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0
6/9/2024 12:41	56801	BENV_T1	13	16	3	0.58	0.69	0.11	-0.78	-0.77	2	2	0	1200	1200	0
6/9/2024 12:41	46004	BERW_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
6/9/2024 12:41	42701	AUGU_T1	64	66	2	0.89	1.04	0.15	0	0	0	0	0	0	0	0
6/9/2024 12:41	56803	BENV_T1	0	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0
6/9/2024 12:41	20402	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 12:41	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.3	0.41	0	0	0	0	0	0
6/9/2024 12:41	44302	BEAV_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/9/2024 12:41	44301	BEAV_T2	0	0	0	0	0	0	-0.3	-0.29	1	1	0	600	600	0
6/9/2024 12:42	56803	BENV_T1	0	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0
6/9/2024 12:42	56801	BENV_T1	13	16	3	0.58	0.69	0.11	-0.78	-0.77	2	2	0	1200	1200	0
6/9/2024 12:42	20402	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 12:42	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.3	0.41	0	0	0	0	0	0
6/9/2024 12:43	63801	HEMP_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/9/2024 12:43	11104	EGYP_T1	0	6	6	0	0.22	0.22	0	0	0	0	0	0	0	0
6/9/2024 12:43	56803	BENV_T1	0	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0
6/9/2024 12:43	11102	EGYP_T1	1	1	0	0.6	0	-0.6	-0.27	-0.26	0	0	0	0	0	0
6/9/2024 12:43	63804	HEMP_T1	1	1	0	5.7	5.8	0.1	0.02	0	0	0	0	0	0	0
6/9/2024 12:43	56801	BENV_T1	13	16	3	0.58	0.69	0.11	-0.78	-0.77	2	2	0	1200	1200	0
6/9/2024 12:44	60101	COCA_T1	4	3	-1	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
6/9/2024 12:44	60102	COCA_T1	0	0	0	0	0	0	-0.08	-0.08	2	2	0	1200	1200	0
6/9/2024 12:44	52004	LING_T2	1	0	-1	0.5	0	-0.5	-0.04	-0.06	0	0	0	0	0	0
6/9/2024 12:44	52403	GRPA_T2	0	2	2	0	0.3	0.3	0.2	0.2	0	0	0	0	0	0
6/9/2024 12:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 12:45	52403	GRPA_T2	1	2	1	0.3	0	-0.3	0.2	0.2	0	0	0	0	0	0
6/9/2024 12:47	12701	MACU_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
6/9/2024 12:49	12701	MACU_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
6/9/2024 12:50	54602	SUMM_T2	0	0	0	0	0	0	-2.19	-2.16	1	1	0	600	600	0
6/9/2024 12:51	14601	SWHI_T1	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
6/9/2024 12:51	65603	QVIL_T2	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
6/9/2024 12:52	43103	SMIL_T2	3	4	1	1.37	0.88	-0.49	-1.94	-1.93	0	0	0	0	0	0
6/9/2024 12:52	16103	BING_T2	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
6/9/2024 12:52	25601	ARRO_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
6/9/2024 12:52	43102	SMIL_T2	0	0	0	0	0	0	-0.73	-0.72	1	1	0	600	600	0
6/9/2024 12:52	14603	SWHI_T1	0	0	0	0	0	0	-1.49	-1.49	2	2	0	1200	1200	0
6/9/2024 12:52	43108	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 12:52	25603	ARRO_T1	3	21	18	0.13	0.17	0.04	0	0	0	0	0	0	0	0
6/9/2024 12:52	16101	BING_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
6/9/2024 12:52	43101	SMIL_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/9/2024 12:52	43105	SMIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/9/2024 12:52	16102	BING_T2	0	5	5	0	0.28	0.28	0	0	0	0	0	0	0	0
6/9/2024 12:53	43101	SMIL_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/9/2024 12:53	43105	SMIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/9/2024 12:53	43103	SMIL_T2	3	4	1	1.37	0.88	-0.49	0	0	0	0	0	0	0	0
6/9/2024 12:53	43102	SMIL_T2	0	0	0	0	0	0	-0.73	-0.72	1	1	0	600	600	0
6/9/2024 12:53	55102	WERT_T2	0	0	0	0	0	0	-1.76	-1.75	1	1	0	600	600	0
6/9/2024 12:53	25603	ARRO_T1	3	21	18	0.13	0.17	0.04	-0.04	-0.04	0	0	0	0	0	0
6/9/2024 12:53	43108	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 12:54	51101	CARL_T1	1	2	1	7.2	7.5	0.3	0	0	0	0	0	0	0	0
6/9/2024 12:54	51107	CARL_T1	0	0	0	0	0	0	-0.01	-0.21	0	0	0	0	0	0
6/9/2024 12:54	25603	ARRO_T1	3	21	18	0.13	0.17	0.04	-0.04	-0.04	0	0	0	0	0	0
6/9/2024 12:54	51102	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 12:56	51101	CARL_T1	1	2	1	7.2	7.5	0.3	0	0	0	0	0	0	0	0
6/9/2024 12:56	51102	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 12:56	51108	CARL_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	600	600	0
6/9/2024 12:57	45902	AUBU_T1	3	3	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
6/9/2024 12:57	17401	FOHI_T1	0	0	0	0	0	0	-1.77	-1.76	0	0	0	0	0	0
6/9/2024 12:57	45901	AUBU_T1	0	0	0	0	0	0	1.08	1.08	0	0	0	0	0	0
6/9/2024 12:58	24104	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 12:58	24101	EHAZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/9/2024 12:58	60102	COCA_T1	0	1	1	0	0.1	0.1	-0.08	-0.23	2	2	0	1200	1200	0
6/9/2024 12:58	24102	EHAZ_T1	4	2	-2	1.15	1.2	0.05	-0.03	-0.03	0	0	0	0	0	0
6/9/2024 12:58	24105	EHAZ_T1	4	4	0	6.38	5.98	-0.4	0	0	0	0	0	0	0	0
6/9/2024 12:58	60101	COCA_T1	3	6	3	0.27	0.42	0.15	0	0	0	0	0	0	0	0
6/9/2024 12:59	15703	TANN_T2	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
6/9/2024 12:59	15702	TANN_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/9/2024 13:00	15703	TANN_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
6/9/2024 13:00	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 13:00	15702	TANN_T2	0	0	0	0	0	0	-0.55	-0.58	0	0	0	0	0	0
6/9/2024 13:03	12701	MACU_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
6/9/2024 13:05	13303	ORVI_T1	0	5	5	0	0.28	0.28	0.82	0.84	0	0	0	0	0	0
6/9/2024 13:05	67602	WARW_T2	0	0	0	0	0	0	-0.1	-0.1	2	2	0	1500	1500	0
6/9/2024 13:06	54601	SUMM_T2	0	0	0	0	0	0	-1.6	-1.6	2	2	0	2100	2100	0
6/9/2024 13:06	66503	SMAN_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
6/9/2024 13:06	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 13:06	67602	WARW_T2	0	0	0	0	0	0	-0.1	-0.09	2	2	0	1500	1500	0
6/9/2024 13:06	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 13:07	67605	WARW_T1	0	1	1	0	0.9	0.9	-0.95	-0.93	0	0	0	0	0	0
6/9/2024 13:07	24603	VARD_T2	16	18	2	0.31	0.38	0.07	0	0	0	0	0	0	0	0
6/9/2024 13:07	67303	WYOM_T2	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
6/9/2024 13:07	24602	VARD_T2	536	541	5	0.89	0.9	0.01	-0.96	-0.96	0	0	0	0	0	0
6/9/2024 13:08	67602	WARW_T2	0	0	0	0	0	0	-0.1	-0.09	2	2	0	1500	1500	0
6/9/2024 13:08	56803	BENV_T1	1	2	1	2.6	0	-2.6	0	0	0	0	0	0	0	0
6/9/2024 13:08	59101	WALK_T2	0	0	0	0	0	0	1.37	1.2	0	0	0	0	0	0
6/9/2024 13:08	59102	WALK_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/9/2024 13:08	56802	BENV_T2	0	0	0	0	0	0	-1.08	-1.06	0	0	0	0	0	0
6/9/2024 13:08	56801	BENV_T1	16	12	-4	0.69	0.86	0.17	-0.76	-0.74	2	2	0	1200	1200	0
6/9/2024 13:09	67303	WYOM_T2	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
6/9/2024 13:10	53501	EVIL_T2	1	1	0	0.5	0.4	-0.1	-0.63	-0.62	0	0	0	0	0	0
6/9/2024 13:10	56803	BENV_T1	1	2	1	2.6	0	-2.6	0	0	0	0	0	0	0	0
6/9/2024 13:10	56801	BENV_T1	16	12	-4	0.69	0.86	0.17	-0.76	-0.74	2	2	0	1200	1200	0
6/9/2024 13:11	56801	BENV_T1	16	12	-4	0.69	0.86	0.17	-1.51	-1.49	4	4	0	2400	2400	0
6/9/2024 13:11	56803	BENV_T1	1	2	1	2.6	0	-2.6	0	0	0	0	0	0	0	0
6/9/2024 13:11	56802	BENV_T2	0	0	0	0	0	0	-1.08	-1.06	0	0	0	0	0	0
6/9/2024 13:12	56803	BENV_T1	1	2	1	2.6	0	-2.6	0	0	0	0	0	0	0	0
6/9/2024 13:12	60803	BUCK_T1	0	0	0	0	0	0	-1.07	-1.07	1	1	0	600	600	0
6/9/2024 13:12	56801	BENV_T1	16	12	-4	0.69	0.86	0.17	-0.76	-0.74	2	2	0	1200	1200	0
6/9/2024 13:13	42701	AUGU_T1	65	64	-1	1.08	0.8	-0.28	0	0	0	0	0	0	0	0
6/9/2024 13:13	10602	BLGL_T2	2	1	-1	0.25	0.5	0.25	0.34	0.35	0	0	0	0	0	0
6/9/2024 13:14	44502	HAMI_T2	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
6/9/2024 13:14	66203	SISP_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/9/2024 13:14	25402	LAHA_T2	1	2	1	0.8	0.6	-0.2	-0.57	-0.6	0	0	0	0	0	0
6/9/2024 13:14	66202	SISP_T2	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
6/9/2024 13:14	46506	LOHA_T1	0	1	1	0	0.3	0.3	-0.37	-0.37	0	0	0	0	0	0
6/9/2024 13:14	44504	HAMI_T2	0	0	0	0	0	0	-1.1	-1.09	0	0	0	0	0	0
6/9/2024 13:14	25404	LAHA_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
6/9/2024 13:16	60102	COCA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 13:16	60101	COCA_T1	6	5	-1	0.42	0.36	-0.06	0.55	0.58	0	0	0	0	0	0
6/9/2024 13:16	51503	SWAT_T1	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
6/9/2024 13:17	65003	NEFF_T2	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
6/9/2024 13:17	51003	NHAR_T1	2	4	2	0.1	0.15	0.05	-2.02	-2.01	1	1	0	1200	1200	0
6/9/2024 13:17	51004	NHAR_T1	7	14	7	1.13	0.69	-0.44	0	0	0	0	0	0	0	0
6/9/2024 13:17	51002	NHAR_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
6/9/2024 13:17	65001	NEFF_T2	0	0	0	0	0	0	-0.84	-0.8	1	1	0	1200	1200	0
6/9/2024 13:19	27605	PIRI_T2	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
6/9/2024 13:19	46506	LOHA_T1	1	1	0	0.3	0.3	0	-0.37	-0.37	0	0	0	0	0	0
6/9/2024 13:21	67605	WARW_T1	1	1	0	0.9	0.7	-0.2	-0.93	-0.91	0	0	0	0	0	0
6/9/2024 13:21	14102	TRUM_T2	1	2	1	0.2	0.35	0.15	-0.34	-0.34	2	2	0	1500	1500	0
6/9/2024 13:21	14103	TRUM_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/9/2024 13:22	67603	WARW_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
6/9/2024 13:22	67605	WARW_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
6/9/2024 13:24	16102	BING_T2	5	4	-1	0.28	0.33	0.05	0	0	0	0	0	0	0	0
6/9/2024 13:24	16103	BING_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
6/9/2024 13:24	16101	BING_T2	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
6/9/2024 13:25	56801	BENV_T1	12	10	-2	0.78	0.69	-0.09	-0.74	-0.73	2	2	0	1200	1200	0
6/9/2024 13:25	56803	BENV_T1	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
6/9/2024 13:26	56803	BENV_T1	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
6/9/2024 13:26	56801	BENV_T1	12	10	-2	0.78	0.69	-0.09	-0.74	-0.73	2	2	0	1200	1200	0
6/9/2024 13:27	56803	BENV_T1	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
6/9/2024 13:27	56801	BENV_T1	12	10	-2	0.78	0.69	-0.09	-0.74	-0.73	2	2	0	1200	1200	0
6/9/2024 13:27	24101	EHAZ_T1	1	5	4	0.1	0.75	0.65	0	0	0	0	0	0	0	0
6/9/2024 13:27	24105	EHAZ_T1	4	4	0	6	6	0	0	0	0	0	0	0	0	0
6/9/2024 13:27	24102	EHAZ_T1	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
6/9/2024 13:27	24104	EHAZ_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	1200	1200	0
6/9/2024 13:28	56801	BENV_T1	12	10	-2	0.78	0.69	-0.09	-0.74	-0.73	2	2	0	1200	1200	0
6/9/2024 13:28	56803	BENV_T1	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
6/9/2024 13:28	61304	EARL_T1	0	0	0	0	0	0	-1.24	-1.26	2	2	0	1200	1200	0
6/9/2024 13:28	61302	EARL_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/9/2024 13:28	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 13:29	12007	HATF_T1	2	2	0	0.95	1.2	0.25	0	0	0	0	0	0	0	0
6/9/2024 13:29	12006	HATF_T1	3	3	0	1.07	0.9	-0.17	0	0	0	0	0	0	0	0
6/9/2024 13:29	12001	HATF_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 13:29	12002	HATF_T1	0	1	1	0	0.2	0.2	0.07	0.08	0	0	0	0	0	0
6/9/2024 13:29	56801	BENV_T1	12	10	-2	0.78	0.69	-0.09	-0.74	-0.73	2	2	0	1200	1200	0
6/9/2024 13:29	56803	BENV_T1	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
6/9/2024 13:29	12005	HATF_T1	4	4	0	0.23	0.25	0.02	0	0	0	0	0	0	0	0
6/9/2024 13:29	51603	DUKE_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
6/9/2024 13:29	12003	HATF_T1	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/9/2024 13:31	47001	HUGH_T2	0	1	1	0	0.2	0.2	-1.39	-1.4	0	0	0	0	0	0
6/9/2024 13:31	47002	HUGH_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/9/2024 13:32	15703	TANN_T2	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
6/9/2024 13:32	15702	TANN_T2	0	0	0	0	0	0	-0.24	-0.2	0	0	0	0	0	0
6/9/2024 13:33	47001	HUGH_T2	0	1	1	0	0.2	0.2	-1.39	-1.4	0	0	0	0	0	0
6/9/2024 13:33	47002	HUGH_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/9/2024 13:38	59101	WALK_T2	0	0	0	0	0	0	1.18	1.4	0	0	0	0	0	0
6/9/2024 13:38	59102	WALK_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/9/2024 13:38	43101	SMIL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
6/9/2024 13:38	43108	SMIL_T2	1	1	0	0.2	0.1	-0.1	-0.69	-0.69	1	1	0	1200	1200	0
6/9/2024 13:38	43103	SMIL_T2	6	7	1	0.43	0.6	0.17	0	0	0	0	0	0	0	0
6/9/2024 13:39	45902	AUBU_T1	0	2	2	0	0.3	0.3	-0.39	-0.38	0	0	0	0	0	0
6/9/2024 13:40	59101	WALK_T2	0	0	0	0	0	0	1.18	1.4	0	0	0	0	0	0
6/9/2024 13:40	59102	WALK_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/9/2024 13:41	56801	BENV_T1	10	10	0	0.64	0.63	-0.01	-0.73	-0.72	2	2	0	1200	1200	0
6/9/2024 13:41	56803	BENV_T1	2	5	3	0.35	1.6	1.25	0	0	0	0	0	0	0	0
6/9/2024 13:42	56801	BENV_T1	10	10	0	0.64	0.63	-0.01	-1.46	-1.44	4	4	0	2400	2400	0
6/9/2024 13:42	56803	BENV_T1	2	5	3	0.35	1.6	1.25	0	0	0	0	0	0	0	0
6/9/2024 13:43	56801	BENV_T1	10	10	0	0.64	0.63	-0.01	-1.46	-1.44	4	4	0	2400	2400	0
6/9/2024 13:43	56803	BENV_T1	2	5	3	0.35	1.6	1.25	0	0	0	0	0	0	0	0
6/9/2024 13:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 13:44	11901	ETEX_T2	0	1	1	0	0.2	0.2	0.42	0.5	0	0	0	0	0	0
6/9/2024 13:44	11903	ETEX_T1	1	1	0	1	1.1	0.1	0.74	0.78	0	0	0	0	0	0
6/9/2024 13:44	45802	HEGI_T2	2	48	46	0.65	1.78	1.13	0	0	0	0	0	0	0	0
6/9/2024 13:45	25501	MADI_T1	1	2	1	0.4	0.95	0.55	0	0	0	0	0	0	0	0
6/9/2024 13:45	25502	MADI_T1	2	1	-1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/9/2024 13:45	25503	MADI_T1	32	42	10	0.19	0.19	0	-0.83	-0.83	0	0	0	0	0	0
6/9/2024 13:45	56801	BENV_T1	6	12	6	0.87	0.77	-0.1	-0.73	-0.72	2	2	0	1200	1200	0
6/9/2024 13:45	56803	BENV_T1	4	6	2	1.63	0.5	-1.13	0	0	0	0	0	0	0	0
6/9/2024 13:47	45802	HEGI_T2	46	48	2	1.07	1.8	0.73	0	0	0	0	0	0	0	0
6/9/2024 13:47	63401	HONY_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
6/9/2024 13:48	45002	LIME_2	1	1	0	4.5	4.4	-0.1	0	0	0	0	0	0	0	0
6/9/2024 13:48	45001	LIME_2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/9/2024 13:48	45003	LIME_2	1	1	0	2.5	2.9	0.4	0.31	0.3	0	0	0	0	0	0
6/9/2024 13:49	64101	REFR_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
6/9/2024 13:51	67605	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/9/2024 13:51	67604	WARW_T1	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
6/9/2024 13:52	66504	SMAN_T2	1	1	0	0.4	0.5	0.1	-1.29	-1.3	1	1	0	1200	1200	0
6/9/2024 13:52	64101	REFR_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
6/9/2024 13:52	66502	SMAN_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/9/2024 13:52	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 13:53	10705	CATA_T2	0	0	0	0	0	0	-1.87	-1.85	1	1	0	900	900	0
6/9/2024 13:53	59102	WALK_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
6/9/2024 13:53	59101	WALK_T2	0	0	0	0	0	0	1.4	1.46	0	0	0	0	0	0
6/9/2024 13:54	59102	WALK_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
6/9/2024 13:54	59101	WALK_T2	0	0	0	0	0	0	1.4	1.46	0	0	0	0	0	0
6/9/2024 13:55	59102	WALK_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
6/9/2024 13:55	59101	WALK_T2	0	0	0	0	0	0	1.4	1.46	0	0	0	0	0	0
6/9/2024 13:56	44302	BEAV_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/9/2024 13:56	10704	CATA_T2	0	0	0	0	0	0	1.23	1.21	1	1	0	1200	1200	0
6/9/2024 13:56	59102	WALK_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
6/9/2024 13:56	56801	BENV_T1	6	12	6	0.87	0.77	-0.1	-0.72	-0.71	2	2	0	1200	1200	0
6/9/2024 13:56	59101	WALK_T2	0	0	0	0	0	0	1.4	1.46	0	0	0	0	0	0
6/9/2024 13:56	56803	BENV_T1	4	6	2	1.63	0.5	-1.13	0	0	0	0	0	0	0	0
6/9/2024 13:56	44301	BEAV_T2	0	0	0	0	0	0	-0.25	-0.25	1	1	0	600	600	0
6/9/2024 13:57	56801	BENV_T1	6	12	6	0.87	0.77	-0.1	-1.44	-1.42	4	4	0	2400	2400	0
6/9/2024 13:57	56803	BENV_T1	4	6	2	1.63	0.5	-1.13	0	0	0	0	0	0	0	0
6/9/2024 13:57	61501	EPET_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
6/9/2024 13:57	61502	EPET_T1	1	1	0	0.4	0.2	-0.2	-2.17	-2.17	0	0	0	0	0	0
6/9/2024 13:57	22101	EDEL_T2	1	1	0	0.3	0.2	-0.1	0.78	0.74	1	1	0	1200	1200	0
6/9/2024 13:57	58401	MORO_T1	0	0	0	0	0	0	-2.79	-2.77	4	4	0	2400	2400	0
6/9/2024 13:57	11901	ETEX_T2	1	0	-1	0.2	0	-0.2	0.5	0.44	0	0	0	0	0	0
6/9/2024 13:57	61506	EPET_T2	0	0	0	0	0	0	-1.07	-1.07	1	1	0	900	900	0
6/9/2024 13:58	56803	BENV_T1	4	6	2	1.63	0.5	-1.13	0	0	0	0	0	0	0	0
6/9/2024 13:58	61302	EARL_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/9/2024 13:58	56801	BENV_T1	6	12	6	0.87	0.77	-0.1	-1.44	-1.42	4	4	0	2400	2400	0
6/9/2024 13:58	61303	EARL_T1	0	0	0	0	0	0	0.21	0.15	0	0	0	0	0	0
6/9/2024 13:59	56803	BENV_T1	4	6	2	1.63	0.5	-1.13	0	0	0	0	0	0	0	0
6/9/2024 13:59	24702	FLND_T2	3	0	-3	0.33	0	-0.33	-0.44	-0.37	1	1	0	1200	1200	0
6/9/2024 13:59	56801	BENV_T1	6	12	6	0.87	0.77	-0.1	-0.72	-0.71	2	2	0	1200	1200	0
6/9/2024 14:00	52001	LING_T1	0	0	0	0	0	0	-0.76	-0.74	0	0	0	0	0	0
6/9/2024 14:00	63305	GREE_T1	0	0	0	0	0	0	-2.04	-2.09	1	1	0	900	900	0
6/9/2024 14:00	63303	GREE_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/9/2024 14:01	63303	GREE_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/9/2024 14:01	63305	GREE_T1	0	0	0	0	0	0	-2.04	-2.09	1	1	0	900	900	0
6/9/2024 14:03	12802	MICK_T1	0	0	0	0	0	0	-1.02	-1.01	0	0	0	0	0	0
6/9/2024 14:03	52004	LING_T2	0	0	0	0	0	0	-0.01	0.24	0	0	0	0	0	0
6/9/2024 14:03	12803	MICK_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/9/2024 14:03	46101	MACI_T2	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
6/9/2024 14:05	42201	SHEN_T2	0	1	1	0	0.2	0.2	0.75	0.75	0	0	0	0	0	0
6/9/2024 14:06	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	-0.87	-0.87	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/9/2024 14:06	43101	SMIL_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/9/2024 14:06	43103	SMIL_T2	5	2	-3	0.66	0.45	-0.21	0	0	0	0	0	0	0	0
6/9/2024 14:06	45402	WBLO_T2	1	2	1	0.4	0.45	0.05	-1.48	-1.47	1	1	0	900	900	0
6/9/2024 14:06	64802	MONE_T2	3	3	0	0.5	0.33	-0.17	-1.02	-1.01	0	0	0	0	0	0
6/9/2024 14:07	52403	GRPA_T2	2	2	0	1.15	0.6	-0.55	0	0	0	0	0	0	0	0
6/9/2024 14:07	52401	GRPA_T2	0	0	0	0	0	0	-0.56	-0.55	0	0	0	0	0	0
6/9/2024 14:07	42201	SHEN_T2	0	1	1	0	0.2	0.2	1.5	1.5	0	0	0	0	0	0
6/9/2024 14:07	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 14:08	10102	ALLE_T2	1	1	0	8.4	8.6	0.2	0	0	0	0	0	0	0	0
6/9/2024 14:09	44302	BEAV_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/9/2024 14:09	44301	BEAV_T2	0	0	0	0	0	0	-0.25	-0.24	1	1	0	600	600	0
6/9/2024 14:10	61101	BERK_T5	0	0	0	0	0	0	-0.57	-0.78	0	0	0	0	0	0
6/9/2024 14:10	61102	BERK_T5	0	0	0	0	0	0	-0.01	0.06	1	1	0	300	300	0
6/9/2024 14:10	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 14:10	10105	ALLE_T3	12	24	12	0.74	1.84	1.1	0	0	0	0	0	0	0	0
6/9/2024 14:10	10205	ALLE_T3	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
6/9/2024 14:10	10102	ALLE_T2	1	1	0	8.4	8.6	0.2	0	0	0	0	0	0	0	0
6/9/2024 14:10	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 14:10	10103	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 14:11	61102	BERK_T5	0	0	0	0	0	0	-0.01	0.06	1	1	0	300	300	0
6/9/2024 14:11	11904	ETEX_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
6/9/2024 14:11	10102	ALLE_T2	1	1	0	8.4	8.6	0.2	0	0	0	0	0	0	0	0
6/9/2024 14:11	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 14:12	60902	DONG_T2	0	0	0	0	0	0	1.17	1.16	0	0	0	0	0	0
6/9/2024 14:12	60904	DONG_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/9/2024 14:12	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 14:12	63401	HONY_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
6/9/2024 14:12	60901	DONG_T2	3	1	-2	0.33	0.1	-0.23	0	0	0	0	0	0	0	0
6/9/2024 14:12	10102	ALLE_T2	1	1	0	8.4	8.6	0.2	0	0	0	0	0	0	0	0
6/9/2024 14:13	24103	EHAZ_T1	0	0	0	0	0	0	-1.55	-1.53	0	0	0	0	0	0
6/9/2024 14:13	24101	EHAZ_T1	1	11	10	0.6	0.86	0.26	0	0	0	0	0	0	0	0
6/9/2024 14:13	24105	EHAZ_T1	4	4	0	5.98	5.98	0	0	0	0	0	0	0	0	0
6/9/2024 14:13	45802	HEGI_T2	48	48	0	1.78	1.76	-0.02	0	0	0	0	0	0	0	0
6/9/2024 14:13	24102	EHAZ_T1	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
6/9/2024 14:13	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 14:13	52403	GRPA_T2	2	2	0	1.15	0.6	-0.55	0.23	0.24	0	0	0	0	0	0
6/9/2024 14:14	52403	GRPA_T2	2	2	0	1.15	0.6	-0.55	0.23	0.24	0	0	0	0	0	0
6/9/2024 14:14	44202	POIN_T2	0	0	0	0	0	0	-0.81	-0.81	1	1	0	1200	1200	0
6/9/2024 14:14	61102	BERK_T5	0	0	0	0	0	0	-0.01	0.06	1	1	0	300	300	0
6/9/2024 14:14	41801	GOCI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 14:14	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 14:14	52404	GRPA_T2	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
6/9/2024 14:15	44203	POIN_T2	0	0	0	0	0	0	-0.65	-0.53	2	2	0	1800	1800	0
6/9/2024 14:15	63401	HONY_T1	0	0	0	0	0	0	1.26	1.22	0	0	0	0	0	0
6/9/2024 14:15	52001	LING_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
6/9/2024 14:16	16902	MECK_T1	4	4	0	0.35	0.43	0.08	0.19	0.2	0	0	0	0	0	0
6/9/2024 14:16	63304	GREE_T1	0	0	0	0	0	0	-2.39	-2.32	0	0	0	0	0	0
6/9/2024 14:16	52402	GRPA_T2	0	1	1	0	0.1	0.1	-0.84	-0.83	0	0	0	0	0	0
6/9/2024 14:16	52403	GRPA_T2	2	3	1	1.15	0.6	-0.55	0	0	0	0	0	0	0	0
6/9/2024 14:16	63303	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/9/2024 14:16	45802	HEGI_T2	48	48	0	1.7	1.86	0.16	0	0	0	0	0	0	0	0
6/9/2024 14:17	16902	MECK_T1	4	4	0	0.35	0.43	0.08	0.19	0.2	0	0	0	0	0	0
6/9/2024 14:17	47402	PENS_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 14:17	47401	PENS_T1	1	1	0	0.2	0.1	-0.1	1.13	1.1	0	0	0	0	0	0
6/9/2024 14:17	47403	PENS_T1	1	1	0	1.5	2.1	0.6	0	0	0	0	0	0	0	0
6/9/2024 14:20	65503	MOJO_T2	1	0	-1	0.1	0	-0.1	-0.74	-0.72	1	1	0	900	900	0
6/9/2024 14:20	43103	SMIL_T2	2	1	-1	0.45	0.6	0.15	-1.91	-1.89	0	0	0	0	0	0
6/9/2024 14:20	43101	SMIL_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/9/2024 14:21	43101	SMIL_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/9/2024 14:21	43103	SMIL_T2	2	1	-1	0.45	0.6	0.15	-1.89	-1.79	0	0	0	0	0	0
6/9/2024 14:22	47403	PENS_T1	1	1	0	1.5	2.1	0.6	0	0	0	0	0	0	0	0
6/9/2024 14:22	47402	PENS_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 14:22	47401	PENS_T1	1	1	0	0.2	0.1	-0.1	1.1	1.19	0	0	0	0	0	0
6/9/2024 14:23	14601	SWHI_T1	1	1	0	0.1	0.2	0.1	-0.71	-0.7	0	0	0	0	0	0
6/9/2024 14:23	14603	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/9/2024 14:24	24602	VARD_T2	525	521	-4	0.76	0.74	-0.02	0	0	0	0	0	0	0	0
6/9/2024 14:24	55103	WERT_T1	1	1	0	5.7	5.2	-0.5	0	0	0	0	0	0	0	0
6/9/2024 14:24	55105	WERT_T1	0	0	0	0	0	0	-0.08	-0.06	1	1	0	900	900	0
6/9/2024 14:24	24603	VARD_T2	26	22	-4	0.54	0.61	0.07	-0.1	-0.1	0	0	0	0	0	0
6/9/2024 14:24	45501	DERR_T2	0	0	0	0	0	0	-0.67	-0.67	2	2	0	1800	1800	0
6/9/2024 14:24	55101	WERT_T1	0	0	0	0	0	0	-2.04	-2.03	4	4	0	3000	3000	0
6/9/2024 14:25	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:25	61301	EARL_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
6/9/2024 14:26	61304	EARL_T1	0	0	0	0	0	0	-0.57	-0.58	1	1	0	600	600	0
6/9/2024 14:26	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 14:27	61801	EELI_T2	0	0	0	0	0	0	-0.36	-0.35	1	1	0	600	600	0
6/9/2024 14:28	56801	BENV_T1	11	11	0	0.83	0.83	0	-0.7	-0.66	2	2	0	1200	1200	0
6/9/2024 14:28	56803	BENV_T1	4	6	2	1.1	0.63	-0.47	0	0	0	0	0	0	0	0
6/9/2024 14:29	61304	EARL_T1	0	0	0	0	0	0	-0.57	-0.58	1	1	0	600	600	0
6/9/2024 14:29	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 14:30	10105	ALLE_T3	24	17	-7	1.19	1.24	0.05	0	0	0	0	0	0	0	0
6/9/2024 14:30	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 14:30	41801	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/9/2024 14:30	10103	ALLE_T3	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/9/2024 14:30	10205	ALLE_T3	2	2	0	1.3	0.85	-0.45	0	0	0	0	0	0	0	0
6/9/2024 14:31	44201	POIN_T1	0	0	0	0	0	0	-1.84	-1.85	1	1	0	1200	1200	0
6/9/2024 14:31	41801	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/9/2024 14:36	55103	WERT_T1	1	2	1	5.2	5.2	0	0	0	0	0	0	0	0	0
6/9/2024 14:36	55101	WERT_T1	0	0	0	0	0	0	-1.02	-1.01	2	2	0	1500	1500	0
6/9/2024 14:41	41801	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/9/2024 14:43	61002	DONV_T2	0	0	0	0	0	0	-0.75	-0.73	2	2	0	1200	1200	0
6/9/2024 14:44	41801	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/9/2024 14:46	51603	DUKE_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
6/9/2024 14:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 14:46	26704	HEMI_T2	0	6	6	0	0.1	0.1	-0.72	-0.71	1	1	0	1200	1200	0
6/9/2024 14:47	46504	LOHA_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/9/2024 14:47	46506	LOHA_T1	1	1	0	0.3	0.6	0.3	-0.34	-0.33	0	0	0	0	0	0
6/9/2024 14:47	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 14:48	52001	LING_T1	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
6/9/2024 14:52	43103	SMIL_T2	0	3	3	0	0.83	0.83	0	0	0	0	0	0	0	0
6/9/2024 14:52	43101	SMIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/9/2024 14:52	43102	SMIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
6/9/2024 14:52	43108	SMIL_T2	0	0	0	0	0	0	-1.73	-1.72	2	2	0	2400	2400	0
6/9/2024 14:52	16302	ALPA_T2	0	0	0	0	0	0	0.85	0.83	0	0	0	0	0	0
6/9/2024 14:54	56801	BENV_T1	5	6	1	1.92	1.46	-0.46	0	0	0	0	0	0	0	0
6/9/2024 14:54	56801	BENV_T1	10	10	0	0.58	0.8	0.22	-0.65	-0.65	2	2	0	1200	1200	0
6/9/2024 14:55	41501	FAIR_T2	0	0	0	0	0	0	-1.15	-1.15	1	1	0	600	600	0
6/9/2024 14:56	16302	ALPA_T2	0	0	0	0	0	0	0.85	0.83	0	0	0	0	0	0
6/9/2024 14:56	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 14:57	56803	BENV_T1	5	6	1	1.92	1.46	-0.46	0.02	0.02	0	0	0	0	0	0
6/9/2024 14:57	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 14:57	56801	BENV_T1	10	10	0	0.58	0.8	0.22	0	0	0	0	0	0	0	0
6/9/2024 14:58	63501	HEID_TBK1-2	0	22	22	0	0.2	0.2	-0.13	-0.07	1	1	0	900	900	0
6/9/2024 14:58	61002	DONV_T2	0	0	0	0	0	0	-0.73	-0.74	2	2	0	1200	1200	0
6/9/2024 14:59	17802	GILB_T1	1	2	1	0.2	0.45	0.25	0.18	0.18	0	0	0	0	0	0
6/9/2024 15:00	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 15:01	63501	HEID_TBK1-2	21	9	-12	0.2	0.16	-0.04	-0.38	-0.22	3	3	0	2700	2700	0
6/9/2024 15:03	65004	NEFF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/9/2024 15:03	65005	NEFF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/9/2024 15:03	65001	NEFF_T2	0	0	0	0	0	0	-0.79	-0.8	1	1	0	1200	1200	0
6/9/2024 15:03	65003	NEFF_T2	2	1	-1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
6/9/2024 15:04	60501	NMAN_T2	3	3	0	4.23	4.4	0.17	0	0	0	0	0	0	0	0
6/9/2024 15:04	60504	NMAN_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
6/9/2024 15:04	60502	NMAN_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
6/9/2024 15:06	66505	SMAN_T2	0	1	1	0	1.2	1.2	0.44	0.39	3	3	0	1700	1700	0
6/9/2024 15:08	66505	SMAN_T2	0	1	1	0	1.2	1.2	0.44	0.39	3	3	0	1700	1700	0
6/9/2024 15:11	45902	AUBU_T1	3	4	1	1.3	1.53	0.23	-0.93	-0.93	1	1	0	600	600	0
6/9/2024 15:12	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 15:13	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 15:14	45902	AUBU_T1	3	4	1	1.3	1.53	0.23	-0.93	-0.93	1	1	0	600	600	0
6/9/2024 15:16	24702	FLND_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
6/9/2024 15:16	24701	FLND_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/9/2024 15:18	26703	HEML_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	600	600	0
6/9/2024 15:18	45003	LIME_2	1	1	0	2.9	2.7	-0.2	0.32	0.32	0	0	0	0	0	0
6/9/2024 15:18	26401	INOR_T1	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
6/9/2024 15:18	45002	LIME_2	1	1	0	3.7	3.3	-0.4	0	0	0	0	0	0	0	0
6/9/2024 15:18	26402	INOR_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
6/9/2024 15:19	46501	LOHA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/9/2024 15:19	46504	LOHA_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/9/2024 15:19	46506	LOHA_T1	1	1	0	0.6	0.5	-0.1	-0.33	-0.32	0	0	0	0	0	0
6/9/2024 15:19	47002	HUGH_T2	1	0	-1	0.2	0	-0.2	0.13	0.12	0	0	0	0	0	0
6/9/2024 15:20	67602	WARW_T2	0	0	0	0	0	0	-0.13	-0.11	4	4	0	3000	3000	0
6/9/2024 15:21	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 15:21	16203	POFA_T2	3	2	-1	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
6/9/2024 15:21	67602	WARW_T2	0	0	0	0	0	0	-0.06	-0.06	2	2	0	1500	1500	0
6/9/2024 15:23	67602	WARW_T2	0	0	0	0	0	0	-0.06	-0.06	2	2	0	1500	1500	0
6/9/2024 15:24	43102	SMIL_T2	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
6/9/2024 15:24	43103	SMIL_T2	3	6	3	0.83	0.33	-0.5	-1.87	-1.85	0	0	0	0	0	0
6/9/2024 15:24	67602	WARW_T2	0	0	0	0	0	0	-0.11	-0.12	4	4	0	3000	3000	0
6/9/2024 15:25	56803	BENV_T1	6	7	1	2.77	1.84	-0.93	0	0	0	0	0	0	0	0
6/9/2024 15:25	67602	WARW_T2	0	0	0	0	0	0	-0.06	-0.06	2	2	0	1500	1500	0
6/9/2024 15:25	56801	BENV_T1	10	13	3	0.76	0.86	0.1	-1.29	-1.28	4	4	0	2400	2400	0
6/9/2024 15:26	56803	BENV_T1	6	7	1	2.77	1.84	-0.93	0	0	0	0	0	0	0	0
6/9/2024 15:26	56801	BENV_T1	10	13	3	0.76	0.86	0.1	-1.93	-1.92	6	6	0	3600	3600	0
6/9/2024 15:27	56803	BENV_T1	6	7	1	2.77	1.84	-0.93	0	0	0	0	0	0	0	0
6/9/2024 15:27	67605	WARW_T1	1	1	0	0.6	0.4	-0.2	-0.81	-0.8	0	0	0	0	0	0
6/9/2024 15:27	56801	BENV_T1	10	13	3	0.76	0.86	0.1	-0.64	-0.64	2	2	0	1200	1200	0
6/9/2024 15:28	56801	BENV_T1	10	13	3	0.76	0.86	0.1	-2.57	-2.56	8	8	0	4800	4800	0
6/9/2024 15:28	56803	BENV_T1	6	7	1	2.77	1.84	-0.93	0	0	0	0	0	0	0	0
6/9/2024 15:28	17804	GILB_T2	2	1	-1	0.1	1.1	1	-0.47	-0.47	0	0	0	0	0	0
6/9/2024 15:29	56801	BENV_T1	10	13	3	0.76	0.86	0.1	-0.64	-0.64	2	2	0	1200	1200	0
6/9/2024 15:29	56803	BENV_T1	6	7	1	2.77	1.84	-0.93	0	0	0	0	0	0	0	0
6/9/2024 15:34	43102	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 15:34	43104	SMIL_T2	0	0	0	0	0	0	-0.64	-0.64	1	1	0	300	300	0
6/9/2024 15:34	43103	SMIL_T2	3	5	2	0.47	0.36	-0.11	0	0	0	0	0	0	0	0
6/9/2024 15:35	43103	SMIL_T2	3	5	2	0.47	0.36	-0.11	0	0	0	0	0	0	0	0
6/9/2024 15:35	42903	MIDD_T2	2	2	0	0.4	0.35	-0.05	0.26	0.23	0	0	0	0	0	0
6/9/2024 15:35	43102	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 15:35	43104	SMIL_T2	0	0	0	0	0	0	-1.28	-1.28	2	2	0	600	600	0
6/9/2024 15:37	55102	WERT_T2	0	0	0	0	0	0	-1.64	-1.64	1	1	0	600	600	0
6/9/2024 15:38	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/9/2024 15:38	41602	CLEV_T1	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
6/9/2024 15:39	43103	SMIL_T2	3	5	2	0.47	0.36	-0.11	0	0	0	0	0	0	0	0
6/9/2024 15:39	43102	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 15:39	43104	SMIL_T2	0	0	0	0	0	0	-0.64	-0.64	1	1	0	300	300	0
6/9/2024 15:41	47001	HUGH_T2	0	0	0	0	0	0	-1.26	-1.22	0	0	0	0	0	0
6/9/2024 15:41	41602	CLEV_T1	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
6/9/2024 15:41	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 15:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/9/2024 15:41	24501	GOUL_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
6/9/2024 15:42	45902	AUBU_T1	3	3	0	2	0.2	-1.8	-0.93	-0.93	1	1	0	600	600	0
6/9/2024 15:42	41602	CLEV_T1	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
6/9/2024 15:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/9/2024 15:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 15:45	63501	HEID_TBK1-2	1	1	0	0.3	0.1	-0.2	-0.06	-0.1	1	1	0	900	900	0
6/9/2024 15:46	24501	GOUL_T2	0	1	1	0	0.4	0.4	0.08	0.08	0	0	0	0	0	0
6/9/2024 15:47	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 15:48	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 15:49	43103	SMIL_T2	5	5	0	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
6/9/2024 15:49	43108	SMIL_T2	0	0	0	0	0	0	-0.86	-0.85	1	1	0	1200	1200	0
6/9/2024 15:49	43102	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 15:50	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 15:51	64101	REFR_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
6/9/2024 15:52	64101	REFR_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
6/9/2024 15:53	66504	SMAN_T2	0	0	0	0	0	0	-1.14	-1.14	1	1	0	1200	1200	0
6/9/2024 15:53	66505	SMAN_T2	1	1	0	1.1	0.2	-0.9	0	0	0	0	0	0	0	0
6/9/2024 15:56	45902	AUBU_T1	1	5	4	0.1	0.98	0.88	-0.93	-0.93	1	1	0	600	600	0
6/9/2024 15:57	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 15:58	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 15:58	10805	CHHI_T2	1	1	0	9.3	8	-1.3	-2.13	-2.62	0	2	2	0	1200	1200
6/9/2024 15:59	17804	GILB_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
6/9/2024 16:00	62102	ELAN_T1	0	0	0	0	0	0	1.25	1.32	0	0	0	0	0	0
6/9/2024 16:00	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 16:00	52002	LING_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/9/2024 16:01	46506	LOHA_T1	1	1	0	0.1	0.3	0.2	-0.31	-0.31	0	0	0	0	0	0
6/9/2024 16:05	67203	TEHI_T1	0	0	0	0	0	0	0.91	0.9	1	1	0	900	900	0
6/9/2024 16:05	52002	LING_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/9/2024 16:08	42701	AUGU_T1	76	86	10	1.06	1.21	0.15	0	0	0	0	0	0	0	0
6/9/2024 16:11	22903	HARW_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/9/2024 16:11	42701	AUGU_T1	76	86	10	1.06	1.21	0.15	0	0	0	0	0	0	0	0
6/9/2024 16:11	22901	HARW_T1	1	1	0	0	0	0	-0.65	-0.61	1	1	0	1200	1200	0
6/9/2024 16:11	22905	HARW_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
6/9/2024 16:12	14204	EALL_T2	1	1	0	0.2	0.3	0.1	-0.41	-0.41	0	0	0	0	0	0
6/9/2024 16:13	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 16:14	20601	GRWO_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
6/9/2024 16:15	64403	LAND_T1	0	0	0	0	0	0	-1.78	-1.78	1	1	0	900	900	0
6/9/2024 16:15	64401	LAND_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/9/2024 16:16	46506	LOHA_T1	1	1	0	0.3	0.3	0	-0.31	-0.32	0	0	0	0	0	0
6/9/2024 16:16	64401	LAND_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/9/2024 16:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 16:16	64403	LAND_T1	0	0	0	0	0	0	-1.78	-1.78	1	1	0	900	900	0
6/9/2024 16:23	51401	LYKE_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
6/9/2024 16:23	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 16:24	56803	BENV_T1	3	3	0	0.67	0.57	-0.1	0	0	0	0	0	0	0	0
6/9/2024 16:24	56801	BENV_T1	3	7	4	0.4	0.37	-0.03	-1.17	-1.16	2	2	0	1200	1200	0
6/9/2024 16:24	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 16:25	51401	LYKE_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
6/9/2024 16:25	56801	BENV_T1	3	7	4	0.4	0.37	-0.03	-1.17	-1.16	2	2	0	1200	1200	0
6/9/2024 16:25	56803	BENV_T1	3	3	0	0.67	0.57	-0.1	0	0	0	0	0	0	0	0
6/9/2024 16:26	56801	BENV_T1	3	7	4	0.4	0.37	-0.03	-1.17	-1.16	2	2	0	1200	1200	0
6/9/2024 16:26	56803	BENV_T1	3	3	0	0.67	0.57	-0.1	0	0	0	0	0	0	0	0
6/9/2024 16:26	62102	ELAN_T1	0	0	0	0	0	0	1.38	1.36	0	0	0	0	0	0
6/9/2024 16:27	17804	GILB_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
6/9/2024 16:27	56803	BENV_T1	3	3	0	0.67	0.57	-0.1	0	0	0	0	0	0	0	0
6/9/2024 16:27	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 16:27	17805	GILB_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
6/9/2024 16:27	56801	BENV_T1	3	7	4	0.4	0.37	-0.03	-1.17	-1.16	2	2	0	1200	1200	0
6/9/2024 16:28	56803	BENV_T1	3	3	0	0.67	0.57	-0.1	0	0	0	0	0	0	0	0
6/9/2024 16:28	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 16:28	56801	BENV_T1	3	7	4	0.4	0.37	-0.03	-1.17	-1.16	2	2	0	1200	1200	0
6/9/2024 16:29	66301	MCGO_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/9/2024 16:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 16:29	66302	MCGO_T2	1	0	-1	0.6	0	-0.6	-1.23	-1.25	1	1	0	600	600	0
6/9/2024 16:29	66303	MCGO_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/9/2024 16:29	56801	BENV_T1	3	7	4	0.4	0.37	-0.03	-3.5	-3.48	6	6	0	3600	3600	0
6/9/2024 16:29	56803	BENV_T1	3	3	0	0.67	0.57	-0.1	0	0	0	0	0	0	0	0
6/9/2024 16:32	42902	MIDD_T2	80	75	-5	0.46	0.48	0.02	0	0	0	0	0	0	0	0
6/9/2024 16:32	42901	MIDD_T2	176	163	-13	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
6/9/2024 16:32	42903	MIDD_T2	22	46	24	0.49	0.43	-0.06	0.18	0.28	0	0	0	0	0	0
6/9/2024 16:32	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 16:36	43104	SMIL_T2	0	0	0	0	0	0	-0.65	-0.65	1	1	0	300	300	0
6/9/2024 16:37	43103	SMIL_T2	0	0	0	0	0	0	-1.84	-1.84	0	0	0	0	0	0
6/9/2024 16:38	43104	SMIL_T2	0	0	0	0	0	0	-0.65	-0.65	1	1	0	300	300	0
6/9/2024 16:44	40902	JESH_T1	0	0	0	0	0	0	-1.31	-1.32	1	1	0	600	600	0
6/9/2024 16:44	40901	JESH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
6/9/2024 16:46	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
6/9/2024 16:46	53302	GRAT_T2	29	48	19	0.36	0.45	0.09	0	0	0	0	0	0	0	0
6/9/2024 16:49	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/9/2024 16:49	43103	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 16:49	47001	HUGH_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
6/9/2024 16:49	43104	SMIL_T2	0	0	0	0	0	0	-0.65	-0.65	1	1	0	300	300	0
6/9/2024 16:51	67203	TEHI_T1	0	0	0	0	0	0	0.93	0.95	1	1	0	900	900	0
6/9/2024 16:51	47001	HUGH_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
6/9/2024 16:53	43103	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 16:53	43104	SMIL_T2	0	0	0	0	0	0	-0.65	-0.65	1	1	0	300	300	0
6/9/2024 16:54	67203	TEHI_T1	0	0	0	0	0	0	0.93	0.95	1	1	0	900	900	0
6/9/2024 16:58	63401	HONY_T1	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
6/9/2024 17:03	52004	LING_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
6/9/2024 17:03	52002	LING_T2	4	13	9	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 17:10	10805	CHHI_T2	1	1	0	8.2	7.9	-0.3	-1.27	-1.26	1	1	0	600	600	0
6/9/2024 17:14	63401	HONY_T1	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
6/9/2024 17:16	63401	HONY_T1	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
6/9/2024 17:17	64902	MILL_T2	0	0	0	0	0	0	-0.85	-0.85	1	1	0	900	900	0
6/9/2024 17:18	65604	QVIL_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
6/9/2024 17:18	65602	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 17:19	43103	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/9/2024 17:19	43104	SMIL_T2	0	0	0	0	0	0	-0.65	-0.65	1	1	0	300	300	0
6/9/2024 17:19	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 17:20	43104	SMIL_T2	0	0	0	0	0	0	-0.65	-0.65	1	1	0	300	300	0
6/9/2024 17:20	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 17:20	43103	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/9/2024 17:24	46206	DANV_T2	4	16	12	1.03	0.88	-0.15	2.04	2.05	1	1	0	1200	1200	0
6/9/2024 17:27	10805	CHHI_T2	1	1	0	7.9	8.3	0.4	-1.26	-1.24	1	1	0	600	600	0
6/9/2024 17:29	63401	HONY_T1	0	0	0	0	0	0	0.59	0.64	0	0	0	0	0	0
6/9/2024 17:30	46506	LOHA_T1	1	1	0	0.3	0.4	0.1	-0.68	-0.69	0	0	0	0	0	0
6/9/2024 17:32	46506	LOHA_T1	1	1	0	0.3	0.4	0.1	-0.34	-0.34	0	0	0	0	0	0
6/9/2024 17:35	65902	SAKR_T2	0	0	0	0	0	0	-0.48	-0.45	1	1	0	300	300	0
6/9/2024 17:35	43103	SMIL_T2	0	0	0	0	0	0	-1.85	-1.79	0	0	0	0	0	0
6/9/2024 17:35	65901	SAKR_T2	1	1	0	7.6	7.6	0	0	0	0	0	0	0	0	0
6/9/2024 17:35	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 17:37	59101	WALK_T2	0	0	0	0	0	0	0.75	1.09	1	1	0	600	600	0
6/9/2024 17:40	59101	WALK_T2	0	0	0	0	0	0	0.75	1.09	1	1	0	600	600	0
6/9/2024 17:45	42902	MIDD_T2	54	61	7	0.37	0.39	0.02	-0.43	-0.44	0	0	0	0	0	0
6/9/2024 17:45	42901	MIDD_T2	98	125	27	0.23	0.26	0.03	0	0	0	0	0	0	0	0
6/9/2024 17:45	42903	MIDD_T2	10	16	6	0.6	0.49	-0.11	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/9/2024 17:48	42902	MIDD_T2	54	61	7	0.37	0.39	0.02	-0.86	-0.88	0	0	0	0	0	0
6/9/2024 17:48	42903	MIDD_T2	10	16	6	0.6	0.49	-0.11	0	0	0	0	0	0	0	0
6/9/2024 17:48	42901	MIDD_T2	98	125	27	0.23	0.26	0.03	0	0	0	0	0	0	0	0
6/9/2024 17:53	58402	MORO_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 17:53	58401	MORO_T1	1	2	1	0.8	0.8	0	-1.23	-1.22	2	2	0	1200	1200	0
6/9/2024 18:02	44502	HAMI_T2	1	1	0	2.5	2.5	0	0	0	0	0	0	0	0	0
6/9/2024 18:02	44505	HAMI_T2	0	0	0	0	0	0	0.93	0.92	0	0	0	0	0	0
6/9/2024 18:03	12601	MACA_T1	0	0	0	0	0	0	1.1	1.1	0	0	0	0	0	0
6/9/2024 18:09	58402	MORO_T1	2	2	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/9/2024 18:09	58401	MORO_T1	1	2	1	0.9	0.45	-0.45	-1.22	-1.24	2	2	0	1200	1200	0
6/9/2024 18:27	24702	FLND_T2	0	0	0	0	0	0	-0.66	-0.55	1	1	0	1200	1200	0
6/9/2024 18:28	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.12	-0.14	1	1	0	900	900	0
6/9/2024 18:32	65502	MOJO_T2	0	0	0	0	0	0	-1.37	-1.34	1	1	0	900	900	0
6/9/2024 18:33	65502	MOJO_T2	0	0	0	0	0	0	-1.37	-1.34	1	1	0	900	900	0
6/9/2024 18:33	45802	HEGI_T2	48	48	0	1.41	1.84	0.43	0	0	0	0	0	0	0	0
6/9/2024 18:40	42701	AUGU_T1	92	96	4	1.78	1.61	-0.17	0	0	0	0	0	0	0	0
6/9/2024 18:42	42701	AUGU_T1	92	96	4	1.78	1.61	-0.17	0	0	0	0	0	0	0	0
6/9/2024 18:59	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 18:59	10102	ALLE_T2	1	1	0	8.4	8.1	-0.3	0	0	0	0	0	0	0	0
6/9/2024 19:05	44505	HAMI_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
6/9/2024 19:05	65206	PRIN_T4	1	1	0	4.4	0	-4.4	0	0	0	0	0	0	0	0
6/9/2024 19:05	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/9/2024 19:05	44502	HAMI_T2	1	1	0	2.6	2.8	0.2	0	0	0	0	0	0	0	0
6/9/2024 19:05	65207	PRIN_T4	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
6/9/2024 19:13	20603	GRWO_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
6/9/2024 19:20	65604	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 19:20	65603	QVIL_T2	0	0	0	0	0	0	-1.19	-0.6	0	0	0	0	0	0
6/9/2024 19:25	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 19:25	10102	ALLE_T2	1	1	0	8.1	7.9	-0.2	0	0	0	0	0	0	0	0
6/9/2024 19:28	17802	GILB_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
6/9/2024 19:29	53902	HALI_T2	1	1	0	5.6	5.2	-0.4	0	0	0	0	0	0	0	0
6/9/2024 19:29	53903	HALI_T2	2	4	2	1.35	1.5	0.15	0	0	0	0	0	0	0	0
6/9/2024 19:29	53901	HALI_T2	0	0	0	0	0	0	-1.27	-1.27	0	0	0	0	0	0
6/9/2024 19:32	52504	PROG_T1	136	4	-132	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
6/9/2024 19:32	52501	PROG_T1	1	0	-1	0.1	0	-0.1	0.8	0.77	1	1	0	300	300	0
6/9/2024 19:33	64902	MILL_T2	0	0	0	0	0	0	-0.83	-0.96	1	1	0	900	900	0
6/9/2024 19:36	64904	MILL_T1	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
6/9/2024 19:38	52504	PROG_T1	136	4	-132	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
6/9/2024 19:38	52501	PROG_T1	1	0	-1	0.1	0	-0.1	0.77	0.75	1	1	0	300	300	0
6/9/2024 19:41	24202	PROV_T4	0	0	0	0	0	0	-0.5	-0.51	1	1	0	1200	1200	0
6/9/2024 19:44	51505	SWAT_T2	0	0	0	0	0	0	0.61	0.58	0	0	0	0	0	0
6/9/2024 19:45	21204	ECAR_T2	1	1	0	0	0.8	0.8	0	0	0	0	0	0	0	0
6/9/2024 19:45	21206	ECAR_T2	1	1	0	8.2	8.1	-0.1	0	0	0	0	0	0	0	0
6/9/2024 19:55	44302	BEAV_T2	191	291	100	0.4	0.59	0.19	0.46	0.46	0	0	0	0	0	0
6/9/2024 19:55	44301	BEAV_T2	6	14	8	0.4	0.48	0.08	0	0	0	0	0	0	0	0
6/9/2024 19:57	44301	BEAV_T2	6	14	8	0.4	0.48	0.08	0	0	0	0	0	0	0	0
6/9/2024 19:57	44302	BEAV_T2	191	291	100	0.4	0.59	0.19	0.46	0.46	0	0	0	0	0	0
6/9/2024 20:07	64204	KINZ_T1	1	3	2	1.2	0.47	-0.73	0	0	0	0	0	0	0	0
6/9/2024 20:07	64201	KINZ_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/9/2024 20:07	64203	KINZ_T1	0	0	0	0	0	0	0.04	0.03	1	1	0	600	600	0
6/9/2024 20:07	64202	KINZ_T1	2	3	1	0.25	0.47	0.22	0	0	0	0	0	0	0	0
6/9/2024 20:12	50201	HARR_T3	2	2	0	4.4	5	0.6	0	0	0	0	0	0	0	0
6/9/2024 20:12	50107	HARR_T3	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
6/9/2024 20:12	50103	HARR_T3	0	0	0	0	0	0	-0.58	-0.57	1	1	0	1200	1200	0
6/9/2024 20:12	50105	HARR_T3	6	6	0	6.12	5.8	-0.32	0	0	0	0	0	0	0	0
6/9/2024 20:16	46801	HEPB_T2	2	0	-2	0.2	0	-0.2	0.74	0.73	0	0	0	0	0	0
6/9/2024 20:17	58701	ROSE_T2	0	0	0	0	0	0	-1.21	-1.23	1	1	0	600	600	0
6/9/2024 20:17	58705	ROSE_T2	5	5	0	2.04	2.06	0.02	0	0	0	0	0	0	0	0
6/9/2024 20:17	46801	HEPB_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/9/2024 20:17	58706	ROSE_T2	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
6/9/2024 20:17	46803	HEPB_T2	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
6/9/2024 20:18	46801	HEPB_T2	2	0	-2	0.2	0	-0.2	0.74	0.73	0	0	0	0	0	0
6/9/2024 20:50	64204	KINZ_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
6/9/2024 20:50	64201	KINZ_T1	1	5	4	0.9	0.32	-0.58	-0.41	-0.4	2	2	0	1200	1200	0
6/9/2024 20:50	64202	KINZ_T1	2	3	1	0.2	0.47	0.27	0	0	0	0	0	0	0	0
6/9/2024 20:52	64202	KINZ_T1	2	3	1	0.2	0.47	0.27	0	0	0	0	0	0	0	0
6/9/2024 20:52	64203	KINZ_T1	0	0	0	0	0	0	0.01	0	1	1	0	600	600	0
6/9/2024 20:52	64204	KINZ_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
6/9/2024 20:52	64201	KINZ_T1	1	5	4	0.9	0.32	-0.58	0	0	0	0	0	0	0	0
6/9/2024 20:58	60101	COCA_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
6/9/2024 20:59	44301	BEAV_T2	13	13	0	0.54	0.57	0.03	-0.31	-0.32	1	1	0	600	600	0
6/9/2024 20:59	44302	BEAV_T2	331	332	1	0.65	0.61	-0.04	0	0	0	0	0	0	0	0
6/9/2024 21:00	44301	BEAV_T2	13	0	-13	0.57	0	-0.57	-0.31	-0.32	1	1	0	600	600	0
6/9/2024 21:00	44302	BEAV_T2	332	0	-332	0.61	0	-0.61	0	0	0	0	0	0	0	0
6/9/2024 21:01	21206	ECAR_T2	1	1	0	7.9	8.1	0.2	0.03	-0.08	0	0	0	0	0	0
6/9/2024 21:01	21204	ECAR_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/9/2024 21:06	45902	AUBU_T1	15	30	15	0.2	0.22	0.02	-1.05	-1.07	1	1	0	600	600	0
6/9/2024 21:06	45901	AUBU_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 21:21	65205	PRIN_T4	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
6/9/2024 21:24	45402	WBLO_T2	2	2	0	0.85	1.1	0.25	-1.59	-1.61	1	1	0	900	900	0
6/9/2024 21:32	63602	LETO_T1	0	22	22	0	0.1	0.1	-0.67	-0.74	1	1	0	600	600	0
6/9/2024 21:33	63602	LETO_T1	0	22	22	0	0.1	0.1	-0.67	-0.74	1	1	0	600	600	0
6/9/2024 21:34	42903	MIDD_T2	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
6/9/2024 21:35	63602	LETO_T1	0	22	22	0	0.1	0.1	-0.67	-0.74	1	1	0	600	600	0
6/9/2024 21:43	16102	BING_T2	6	14	8	0.15	0.31	0.16	0	0	0	0	0	0	0	0
6/9/2024 21:43	16103	BING_T2	0	0	0	0	0	0	-1.31	-1.34	1	1	0	900	900	0
6/9/2024 21:54	14203	EALL_T1	0	0	0	0	0	0	-0.22	-0.19	1	1	0	1200	1200	0
6/9/2024 22:05	66703	STRA_T1	0	4	4	0	0.2	0.2	-0.26	-0.27	0	0	0	0	0	0
6/9/2024 22:11	42802	SELI_T1	0	0	0	0	0	0	-0.87	-0.88	1	1	0	900	900	0
6/9/2024 22:13	25603	ARRO_T1	36	42	6	0.28	0.37	0.09	-0.08	-0.08	0	0	0	0	0	0
6/9/2024 22:19	42903	MIDD_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/9/2024 22:19	42902	MIDD_T2	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
6/9/2024 22:20	10602	BLGL_T2	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
6/9/2024 22:23	58003	WCAR_T1	1	21	20	2.2	0.21	-1.99	0	1	1	1	0	600	600	0
6/9/2024 22:23	65503	MOJO_T2	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
6/9/2024 22:23	46506	LOHA_T1	1	1	0	0.4	0.4	0	-0.34	-0.34	0	0	0	0	0	0
6/9/2024 22:23	46504	LOHA_T1	45	48	3	0.4	0.42	0.02	0	0	0	0	0	0	0	0
6/9/2024 22:23	58001	WCAR_T1	4	4	0	0.9	0.98	0.08	0	0	0	0	0	0	0	0
6/9/2024 22:23	21206	ECAR_T2	1	1	0	7.6	8.2	0.6	-0.2	-0.2	0	0	0	0	0	0
6/9/2024 22:23	21204	ECAR_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
6/9/2024 22:23	58402	MORO_T1	0	0	0	0	0	0	-0.51	-0.47	2	2	0	1500	1500	0
6/9/2024 22:23	65502	MOJO_T2	8	90	82	0	0.12	0.02	0	0	0	0	0	0	0	0
6/9/2024 22:24	16101	BING_T2	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
6/9/2024 22:24	16102	BING_T2	17	14	-3	0.53	0.41	-0.12	0	0	0	0	0	0	0	0
6/9/2024 22:25	62101	ELAN_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/9/2024 22:25	62105	ELAN_T1	1	0	-1	0.1	0	-0.1	0.66	0.65	0	0	0	0	0	0
6/9/2024 22:25	10801	CHHI_T1	39	0	-39	0.12	0	-0.12	-1.25	-0.7	2	1	-1	1500	900	-600
6/9/2024 22:25	58003	WCAR_T1	1	21	20	2.2	0.21	-1.99	0	0	1	1	0	600	600	0
6/9/2024 22:25	58001	WCAR_T1	4	4	0	0.9	0.98	0.08	0	0	0	0	0	0	0	0
6/9/2024 22:25	26402	INOR_T1	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
6/9/2024 22:26	20401	ASHF_T2	2	1	-1	0.1	0.1	0	-0.22	-0.23	0	0	0	0	0	0
6/9/2024 22:26	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:26	16902	MECK_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
6/9/2024 22:26	16901	MECK_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/9/2024 22:27	47002	HUGH_T2	12	11	-1	0.28	0.29	0.01	0	0	0	0	0	0	0	0
6/9/2024 22:27	47001	HUGH_T2	0	1	1	0	0.1	0.1	-1.79	-1.81	1	1	0	900	900	0
6/9/2024 22:27	43105	SMIL_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
6/9/2024 22:27	51401	LYKE_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
6/9/2024 22:27	43103	SMIL_T2	12	17	5	0.58	0.51	-0.07	-6.28	-6.34	0	0	0	0	0	0
6/9/2024 22:27	10801	CHHI_T1	39	0	-39	0.12	0	-0.12	-1.25	-0.7	2	1	-1	1500	900	-600
6/9/2024 22:27	43102	SMIL_T2	8	7	-1	0.4	0.54	0.14	0	0	0	0	0	0	0	0
6/9/2024 22:28	26704	HEML_T2	92	79	-13	0.38	0.26	-0.12	-0.85	-0.86	1	1	0	1200	1200	0
6/9/2024 22:29	45502	DERR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 22:29	25404	LAHA_T2	153	13	-140	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
6/9/2024 22:29	43102	SMIL_T2	8	7	-1	0.4	0.54	0.14	0	0	0	0	0	0	0	0
6/9/2024 22:29	16901	MECK_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/9/2024 22:29	25601	ARRO_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
6/9/2024 22:29	22903	HARW_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
6/9/2024 22:29	22901	HARW_T1	0	0	0	0	0	0	-0.71	-0.73	1	1	0	1200	1200	0
6/9/2024 22:29	25402	LAHA_T2	1	1	0	0.2	0.1	-0.1	-0.84	-0.85	0	0	0	0	0	0
6/9/2024 22:29	26703	HEML_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	600	600	0
6/9/2024 22:29	43105	SMIL_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
6/9/2024 22:29	52102	MEIS_T1	2	19	17	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/9/2024 22:29	40101	HUNT_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
6/9/2024 22:29	43103	SMIL_T2	12	17	5	0.58	0.51	-0.07	-6.28	-6.34	0	0	0	0	0	0
6/9/2024 22:29	62101	ELAN_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/9/2024 22:29	65001	NEFF_T2	1	2	1	0.1	0.15	0.05	-1.12	-1.14	1	1	0	1200	1200	0
6/9/2024 22:29	65003	NEFF_T2	3	3	0	0.13	0.17	0.04	0	0	0	0	0	0	0	0
6/9/2024 22:29	25603	ARRO_T1	42	38	-4	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
6/9/2024 22:29	52101	MEIS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:29	17802	GILB_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
6/9/2024 22:29	62105	ELAN_T1	1	0	-1	0.1	0	-0.1	0.66	0.65	0	0	0	0	0	0
6/9/2024 22:29	43104	SMIL_T2	0	0	0	0	0	0	-0.72	-0.72	1	1	0	300	300	0
6/9/2024 22:29	16902	MECK_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
6/9/2024 22:29	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-0.51	-0.51	0	0	0	0	0	0
6/9/2024 22:29	45501	DERR_T2	1	1	0	0.1	0.1	0	-0.78	-0.79	2	2	0	1800	1800	0
6/9/2024 22:29	46203	DANV_T2	0	0	0	0	0	0	-3.79	-3.84	0	0	0	0	0	0
6/9/2024 22:30	15703	TANN_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
6/9/2024 22:30	24501	GOUL_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
6/9/2024 22:30	58402	MORO_T1	0	0	0	0	0	0	-0.51	-0.47	2	2	0	1500	1500	0
6/9/2024 22:30	24105	EHAZ_T1	4	4	0	5.73	5.55	-0.18	0	0	0	0	0	0	0	0
6/9/2024 22:30	47401	PENS_T1	0	0	0	0	0	0	0.88	0.88	0	0	0	0	0	0
6/9/2024 22:30	15702	TANN_T2	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
6/9/2024 22:30	54504	ENOL_T2	0	0	0	0	0	0	-0.99	-1.01	1	1	0	600	600	0
6/9/2024 22:30	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	900	900	0
6/9/2024 22:30	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/9/2024 22:30	47402	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:30	16902	MECK_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
6/9/2024 22:30	24102	EHAZ_T1	1	2	1	1.8	1.4	-0.4	0.01	0.05	0	0	0	0	0	0
6/9/2024 22:31	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 22:31	25404	LAHA_T2	13	28	15	0.1	0.11	0.01	0	0	0	0	0	0	0	0
6/9/2024 22:31	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/9/2024 22:31	20601	GRWO_T2	52	84	32	0.2	0.23	0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/9/2024 22:31	25402	LAHA_T2	1	0	-1	0.1	0	-0.1	-0.84	-0.85	0	0	0	0	0	0
6/9/2024 22:31	20603	GRWO_T2	11	14	3	0.15	0.15	0	0.36	0.35	0	0	0	0	0	0
6/9/2024 22:31	43202	MVIL_T2	0	12	12	0	0.16	0.16	-0.69	-0.7	0	0	0	0	0	0
6/9/2024 22:31	59101	WALK_T2	0	0	0	0	0	0	1.28	1.35	0	0	0	0	0	0
6/9/2024 22:31	46203	DANV_T2	0	0	0	0	0	0	-1.89	-1.92	0	0	0	0	0	0
6/9/2024 22:32	13303	ORVI_T1	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
6/9/2024 22:32	67603	WARW_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
6/9/2024 22:32	16102	BING_T2	14	18	4	0.4	0.41	0.01	0.36	0.34	0	0	0	0	0	0
6/9/2024 22:32	67605	WARW_T1	21	9	-12	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
6/9/2024 22:32	17802	GILB_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
6/9/2024 22:32	52002	LING_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
6/9/2024 22:32	45902	AUBU_T1	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
6/9/2024 22:32	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	900	900	0
6/9/2024 22:33	45501	DERR_T2	1	1	0	0.1	0.4	0.3	-0.78	-0.79	2	2	0	1800	1800	0
6/9/2024 22:33	44201	POIN_T1	10	50	40	0.15	0.15	0	-1.86	-1.84	1	1	0	1200	1200	0
6/9/2024 22:33	45502	DERR_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/9/2024 22:33	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/9/2024 22:33	51004	NHAR_T1	7	13	6	1.04	0.74	-0.3	-0.47	-0.49	0	0	0	0	0	0
6/9/2024 22:33	51002	NHAR_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
6/9/2024 22:33	51003	NHAR_T1	5	6	1	0.22	0.3	0.08	0	0	0	0	0	0	0	0
6/9/2024 22:33	52004	LING_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
6/9/2024 22:34	63501	HEID_TBK1-2	1	2	1	0.2	0.2	0	0.5	0.5	0	0	0	0	0	0
6/9/2024 22:34	42902	MIDD_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
6/9/2024 22:34	65502	MOJO_T2	29	245	216	0.1	0.19	0.09	-1.8	-1.82	1	1	0	900	900	0
6/9/2024 22:34	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:34	40703	FFLD_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:34	65503	MOJO_T2	0	18	18	0	0.11	0.11	0	0	0	0	0	0	0	0
6/9/2024 22:34	46506	LOHA_T1	1	1	0	0.1	0.4	0.3	-0.34	-0.34	0	0	0	0	0	0
6/9/2024 22:34	46504	LOHA_T1	41	48	7	0.37	0.43	0.06	0	0	0	0	0	0	0	0
6/9/2024 22:34	40701	FFLD_T1	25	32	7	0.18	0.24	0.06	0	0	0	0	0	0	0	0
6/9/2024 22:34	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:34	60101	COCA_T1	0	0	0	0	0	0	0.77	0.74	0	0	0	0	0	0
6/9/2024 22:34	67303	WYOM_T2	0	0	0	0	0	0	-1.32	-1.39	0	0	0	0	0	0
6/9/2024 22:34	48302	ORWI_T2	2	2	0	0.65	0.9	0.25	-0.03	-0.04	0	0	0	0	0	0
6/9/2024 22:34	62102	ELAN_T1	0	0	0	0	0	0	0.91	0.97	0	0	0	0	0	0
6/9/2024 22:34	40702	FFLD_T1	62	123	61	0.19	0.23	0.04	-1.21	-1.22	1	1	0	1200	1200	0
6/9/2024 22:34	45902	AUBU_T1	0	0	0	0	0	0	-1.02	-1.02	0	0	0	0	0	0
6/9/2024 22:34	62105	ELAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:34	10102	ALLE_T2	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
6/9/2024 22:34	43202	MVIL_T2	0	12	12	0	0.16	0.16	-0.69	-0.7	0	0	0	0	0	0
6/9/2024 22:34	42903	MIDD_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
6/9/2024 22:34	11901	ETEX_T2	0	0	0	0	0	0	0.45	0.49	0	0	0	0	0	0
6/9/2024 22:34	46206	DANV_T2	0	0	0	0	0	0	2.12	2.11	1	1	0	1200	1200	0
6/9/2024 22:34	16902	MECK_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
6/9/2024 22:34	62101	ELAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/9/2024 22:34	45901	AUBU_T1	0	0	0	0	0	0	2.16	2.15	0	0	0	0	0	0
6/9/2024 22:34	24603	VARD_T2	15	54	39	0.36	0.25	-0.11	0	0	0	0	0	0	0	0
6/9/2024 22:34	16302	ALPA_T2	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
6/9/2024 22:34	24602	VARD_T2	697	816	119	0.84	0.98	0.14	-1.02	-1.03	0	0	0	0	0	0
6/9/2024 22:34	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:34	17401	FOHI_T1	0	0	0	0	0	0	-1.7	-0.85	0	0	0	0	0	0
6/9/2024 22:35	45902	AUBU_T1	0	0	0	0	0	0	-1.02	-1.02	0	0	0	0	0	0
6/9/2024 22:35	44502	HAMI_T2	1	1	0	3.2	3.1	-0.1	0	0	0	0	0	0	0	0
6/9/2024 22:35	24202	PROV_T4	0	0	0	0	0	0	-0.6	-0.61	1	1	0	1200	1200	0
6/9/2024 22:35	45501	DERR_T2	1	1	0	0.1	0.4	0.3	-0.78	-0.79	2	2	0	1800	1800	0
6/9/2024 22:35	11904	ETEX_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
6/9/2024 22:35	20403	ASHF_T2	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
6/9/2024 22:35	45502	DERR_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/9/2024 22:35	53901	HALI_T2	1	1	0	0.9	1.1	0.2	-1.35	-1.36	0	0	0	0	0	0
6/9/2024 22:35	52002	LING_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
6/9/2024 22:35	25503	MADI_T1	115	129	14	0.37	0.39	0.02	-0.92	-0.93	0	0	0	0	0	0
6/9/2024 22:35	20401	ASHF_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
6/9/2024 22:35	42701	AUGU_T1	13	8	-5	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
6/9/2024 22:35	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:35	53902	HALI_T2	1	1	0	5.7	6.4	0.7	0	0	0	0	0	0	0	0
6/9/2024 22:35	12701	MACU_T1	0	0	0	0	0	0	-1.15	-1.16	1	1	0	1200	1200	0
6/9/2024 22:35	53903	HALI_T2	2	2	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:35	44505	HAMI_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
6/9/2024 22:35	16302	ALPA_T2	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
6/9/2024 22:36	60801	BUCK_T1	1	48	47	0.1	0.29	0.19	-0.87	-0.88	1	1	0	600	600	0
6/9/2024 22:36	40902	JESH_T1	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
6/9/2024 22:36	12801	MICK_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	600	600	0
6/9/2024 22:36	56501	ROCK_T2	5	60	55	0.2	0.16	-0.04	-1.19	-1.21	0	0	0	0	0	0
6/9/2024 22:36	43103	SMIL_T2	16	22	6	0.49	0.91	0.42	0	0	0	0	0	0	0	0
6/9/2024 22:36	43105	SMIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:36	43102	SMIL_T2	7	8	1	0.36	0.53	0.17	0	0	0	0	0	0	0	0
6/9/2024 22:36	63401	HONY_T1	0	0	0	0	0	0	0.64	0.73	0	0	0	0	0	0
6/9/2024 22:36	58402	MORO_T1	0	0	0	0	0	0	-0.51	-0.47	2	2	0	1500	1500	0
6/9/2024 22:36	60803	BUCK_T1	0	10	10	0	0.18	0.18	0	0	0	0	0	0	0	0
6/9/2024 22:36	16302	ALPA_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
6/9/2024 22:36	63404	HONY_T1	0	18	18	0	0.14	0.14	0	0	0	0	0	0	0	0
6/9/2024 22:36	48302	ORWI_T2	2	2	0	0.65	0.9	0.25	-0.03	-0.04	0	0	0	0	0	0
6/9/2024 22:36	58202	NEWV_T1	0	4	4	0	0.2	0.2	-0.13	-0.15	0	0	0	0	0	0
6/9/2024 22:36	67605	WARW_T1	21	9	-12	0.24	0.22	-0.02	-1.09	-1.1	0	0	0	0	0	0
6/9/2024 22:36	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	900	900	0
6/9/2024 22:36	42701	AUGU_T1	13	8	-5	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
6/9/2024 22:36	56801	BENV_T1	15	14	-1	1.15	1.42	0.27	-3.14	-3.25	6	6	0	3600	3600	0
6/9/2024 22:36	40901	JESH_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/9/2024 22:36	43108	SMIL_T2	0	0	0	0	0	0	-1.24	-1.07	1	1	0	1200	1200	0
6/9/2024 22:37	60803	BUCK_T1	0	10	10	0	0.18	0.18	-1.08	-1.09	1	1	0	600	600	0
6/9/2024 22:37	15702	TANN_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
6/9/2024 22:37	10901	COOP_T2	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
6/9/2024 22:37	60801	BUCK_T1	1	48	47	0.1	0.29	0.19	0	0	0	0	0	0	0	0
6/9/2024 22:37	24205	PROV_T3	6	6	0	0.68	0.17	-0.51	0	0	0	0	0	0	0	0
6/9/2024 22:37	10805	CHHI_T2	1	1	0	7.8	7.7	-0.1	-2.18	-2.3	2	2	0	1200	1200	0
6/9/2024 22:37	65503	MOJO_T2	0	18	18	0	0.11	0.11	-0.22	-0.26	0	0	0	0	0	0
6/9/2024 22:37	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/9/2024 22:37	64902	MILL_T2	0	0	0	0	0	0	-1.18	-1.19	1	1	0	900	900	0
6/9/2024 22:37	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
6/9/2024 22:37	64701	LITI_T1	0	0	0	0	0	0	0.28	0.16	0	0	0	0	0	0
6/9/2024 22:37	55003	NEWP_T2	3	7	4	0.13	0.27	0.14	-0.82	-0.84	1	1	0	600	600	0
6/9/2024 22:37	61102	BERK_T5	0	0	0	0	0	0	0.54	0.55	1	1	0	300	300	0
6/9/2024 22:37	67602	WARW_T2	0	0	0	0	0	0	-0.02	-0.03	1	1	0	1200	1200	0
6/9/2024 22:37	65502	MOJO_T2	29	245	216	0.1	0.19	0.09	0	0	0	0	0	0	0	0
6/9/2024 22:37	60101	COCA_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
6/9/2024 22:37	43202	MVIL_T2	0	12	12	0	0.16	0.16	-0.7	-0.7	0	0	0	0	0	0
6/9/2024 22:37	55001	NEWP_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
6/9/2024 22:37	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:37	15703	TANN_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
6/9/2024 22:37	24603	VARD_T2	15	54	39	0.36	0.25	-0.11	-0.23	-0.23	0	0	0	0	0	0
6/9/2024 22:37	24602	VARD_T2	697	816	119	0.84	0.98	0.14	0	0	0	0	0	0	0	0
6/9/2024 22:37	24201	PROV_T3	6	11	5	1.15	0.68	-0.47	-1.39	-1.4	1	1	0	1200	1200	0
6/9/2024 22:37	55002	NEWP_T1	5	6	1	0.8	1	0.2	-0.22	-0.23	0	0	0	0	0	0
6/9/2024 22:37	24204	PROV_T3	2	2	0	2.9	2.85	-0.05	0	0	0	0	0	0	0	0
6/9/2024 22:37	12701	MACU_T1	0	0	0	0	0	0	-1.16	-1.17	1	1	0	1200	1200	0
6/9/2024 22:38	53902	HALI_T2	1	1	0	5.7	6.4	0.7	0	0	0	0	0	0	0	0
6/9/2024 22:38	16301	ALPA_T1	3	2	-1	0.33	0.4	0.07	-0.21	-0.23	0	0	0	0	0	0
6/9/2024 22:38	56501	ROCK_T2	5	60	55	0.2	0.16	-0.04	-1.21	-1.32	0	0	0	0	0	0
6/9/2024 22:38	44301	BEAV_T2	0	0	0	0	0	0	0.35	0.36	1	1	0	600	600	0
6/9/2024 22:38	59002	MIFF_T1	6	6	0	0.7	0.73	0.03	0	0	0	0	0	0	0	0
6/9/2024 22:38	55002	NEWP_T1	5	6	1	0.8	1	0.2	-0.22	-0.23	0	0	0	0	0	0
6/9/2024 22:38	10801	CHHI_T1	0	0	0	0	0	0	-0.7	-0.73	1	1	0	900	900	0
6/9/2024 22:38	60101	COCA_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
6/9/2024 22:38	48302	ORWI_T2	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
6/9/2024 22:38	61303	EARL_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
6/9/2024 22:38	51505	SWAT_T2	0	0	0	0	0	0	0.58	0.42	0	0	0	0	0	0
6/9/2024 22:38	42201	SHEN_T2	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
6/9/2024 22:38	63501	HEID_TBK1-2	1	2	1	0.2	0.2	0	0.5	0.51	0	0	0	0	0	0
6/9/2024 22:38	60102	COCA_T1	0	0	0	0	0	0	0.06	0.17	2	1	-1	1200	600	-600
6/9/2024 22:38	58003	WCAR_T1	1	21	20	2.1	0.21	-1.89	0	0.41	1	0	-1	600	0	-600
6/9/2024 22:38	45003	LIME_2	2	2	0	2.4	2.5	0.1	0.23	0.2	0	0	0	0	0	0
6/9/2024 22:38	53903	HALI_T2	2	2	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:38	43108	SMIL_T2	0	0	0	0	0	0	-1.24	-1.07	1	1	0	1200	1200	0
6/9/2024 22:38	44502	HAMI_T2	1	1	0	3.2	3.1	-0.1	0	0	0	0	0	0	0	0
6/9/2024 22:38	58001	WCAR_T1	4	4	0	0.88	1.03	0.15	0	0	0	0	0	0	0	0
6/9/2024 22:38	65502	MOJO_T2	29	245	216	0.1	0.19	0.09	0	0	0	0	0	0	0	0
6/9/2024 22:38	52101	MEIS_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 22:38	14204	EALL_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
6/9/2024 22:38	52004	LING_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
6/9/2024 22:38	45002	LIME_2	1	1	0	5	5.9	0.9	0	0	0	0	0	0	0	0
6/9/2024 22:38	43103	SMIL_T2	16	22	6	0.49	0.91	0.42	0	0	0	0	0	0	0	0
6/9/2024 22:38	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:38	61102	BERK_T5	0	0	0	0	0	0	0.54	0.55	1	1	0	300	300	0
6/9/2024 22:38	53302	GRAT_T2	61	71	10	0.67	0.78	0.11	0	0	0	0	0	0	0	0
6/9/2024 22:38	53901	HALI_T2	1	1	0	0.9	1.1	0.2	-1.36	-1.37	0	0	0	0	0	0
6/9/2024 22:38	45001	LIME_2	34	32	-2	0.46	0.42	-0.04	0	0	0	0	0	0	0	0
6/9/2024 22:38	52102	MEIS_T1	0	19	19	0	0.15	0.15	0	0	0	0	0	0	0	0
6/9/2024 22:38	65503	MOJO_T2	0	18	18	0	0.11	0.11	-0.22	-0.26	0	0	0	0	0	0
6/9/2024 22:38	56802	BENV_T2	1	1	0	0.2	0.3	0.1	-1.53	-1.49	0	0	0	0	0	0
6/9/2024 22:38	43105	SMIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:38	44504	HAMI_T2	0	0	0	0	0	0	-1.14	-1.19	0	0	0	0	0	0
6/9/2024 22:38	67605	WARW_T1	21	9	-12	0.24	0.22	-0.02	-1.09	-1.1	0	0	0	0	0	0
6/9/2024 22:38	66504	SMAN_T2	0	0	0	0	0	0	-4.87	-1.05	3	0	-3	3600	0	-3600
6/9/2024 22:38	43104	SMIL_T2	0	0	0	0	0	0	-0.72	-0.73	1	1	0	300	300	0
6/9/2024 22:38	59003	MIFF_T1	1	1	0	0.4	0.6	0.2	0.37	0.35	0	0	0	0	0	0
6/9/2024 22:38	43102	SMIL_T2	7	8	1	0.36	0.53	0.17	-0.84	-0.84	1	1	0	600	600	0
6/9/2024 22:39	62102	ELAN_T1	0	0	0	0	0	0	0.97	0.84	0	0	0	0	0	0
6/9/2024 22:39	15702	TANN_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
6/9/2024 22:39	14601	SWHI_T1	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
6/9/2024 22:39	15703	TANN_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
6/9/2024 22:39	43202	MVIL_T2	0	12	12	0	0.16	0.16	0	0	0	0	0	0	0	0
6/9/2024 22:39	63401	HONY_T1	0	0	0	0	0	0	0.64	0.73	0	0	0	0	0	0
6/9/2024 22:39	53903	HALI_T2	2	2	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/9/2024 22:39	43201	MVIL_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
6/9/2024 22:39	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/9/2024 22:39	42601	TUSC_T1	0	0	0	0	0	0	-0.55	-0.58	2	2	0	1800	1800	0
6/9/2024 22:39	63404	HONY_T1	0	18	18	0	0.14	0.14	0	0	0	0	0	0	0	0
6/9/2024 22:39	46206	DANV_T2	0	0	0	0	0	0	2.11	2.11	1	1	0	1200	1200	0
6/9/2024 22:39	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:39	47401	PENS_T1	0	0	0	0	0	0	0.88	0.84	0	0	0	0	0	0
6/9/2024 22:39	42903	MIDD_T2	0	2	2	0	0.4	0.4	-0.34	-0.44	0	0	0	0	0	0
6/9/2024 22:39	62101	ELAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/9/2024 22:39	60605	NCOL_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
6/9/2024 22:39	53902	HAU_T2	1	1	0	5.7	6.4	0.7	0	0	0	0	0	0	0	0
6/9/2024 22:39	67605	WARW_T1	21	9	-12	0.24	0.22	-0.02	-1.09	-1.1	0	0	0	0	0	0
6/9/2024 22:39	21206	ECAR_T2	1	1	0	7.8	8.3	0.5	-0.2	-0.2	0	0	0	0	0	0
6/9/2024 22:39	65604	QVIL_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
6/9/2024 22:39	65207	PRIN_T4	0	26	26	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 22:39	61304	EARL_T1	0	0	0	0	0	0	-0.91	-0.92	1	1	0	600	600	0
6/9/2024 22:39	65206	PRIN_T4	0	1	1	0	3.7	3.7	0	0	0	0	0	0	0	0
6/9/2024 22:39	56803	BENV_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
6/9/2024 22:39	25603	ARRO_T1	38	42	4	0.27	0.3	0.03	-0.08	-0.08	0	0	0	0	0	0
6/9/2024 22:39	21204	ECAR_T2	1	1	0	0	0.6	0.6	0	0	0	0	0	0	0	0
6/9/2024 22:39	24702	FLND_T2	0	0	0	0	0	0	0.72	0.88	0	0	0	0	0	0
6/9/2024 22:39	56801	BENV_T1	15	14	-1	1.15	1.42	0.27	-1.08	-1.12	2	2	0	1200	1200	0
6/9/2024 22:39	53901	HAU_T2	1	1	0	0.9	1.1	0.2	-1.36	-1.37	0	0	0	0	0	0
6/9/2024 22:39	61301	EARL_T1	0	0	0	0	0	0	-0.45	-0.46	1	1	0	900	900	0
6/9/2024 22:39	47402	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:39	62105	ELAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:40	67602	WARW_T2	0	0	0	0	0	0	-0.03	-0.07	2	2	0	2400	2400	0
6/9/2024 22:40	58001	WCAR_T1	4	4	0	0.88	1.03	0.15	0	0	0	0	0	0	0	0
6/9/2024 22:40	46506	LOHA_T1	1	1	0	0.1	0.4	0.3	-0.34	-0.35	0	0	0	0	0	0
6/9/2024 22:40	64403	LAND_T1	0	0	0	0	0	0	-1.72	-1.7	1	1	0	900	900	0
6/9/2024 22:40	42701	AUGU_T1	13	8	-5	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
6/9/2024 22:40	12001	HATF_T1	16	0	-16	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 22:40	10805	CHHI_T2	1	1	0	7.8	7.7	-0.1	-1.09	-1.15	1	1	0	600	600	0
6/9/2024 22:40	51102	CARL_T1	11	85	74	0.13	0.18	0.05	0	0	0	0	0	0	0	0
6/9/2024 22:40	43102	SMIL_T2	7	8	1	0.36	0.53	0.17	0	0	0	0	0	0	0	0
6/9/2024 22:40	63301	GREE_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:40	52004	LING_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
6/9/2024 22:40	12004	HATF_T1	11	5	-6	0.14	0.14	0	0	0	0	0	0	0	0	0
6/9/2024 22:40	58003	WCAR_T1	1	21	20	2.1	0.21	-1.89	0	0.41	1	0	-1	600	0	-600
6/9/2024 22:40	51101	CARL_T1	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
6/9/2024 22:40	43105	SMIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:40	20401	ASHF_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
6/9/2024 22:40	59101	WALK_T2	0	0	0	0	0	0	1.35	1.37	0	0	0	0	0	0
6/9/2024 22:40	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
6/9/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
6/9/2024 22:40	12005	HATF_T1	5	4	-1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
6/9/2024 22:40	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 22:40	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:40	43104	SMIL_T2	0	0	0	0	0	0	-0.72	-0.73	1	1	0	300	300	0
6/9/2024 22:40	51107	CARL_T1	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
6/9/2024 22:40	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:40	12002	HATF_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
6/9/2024 22:40	46504	LOHA_T1	41	48	7	0.37	0.43	0.06	0	0	0	0	0	0	0	0
6/9/2024 22:40	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/9/2024 22:40	63305	GREE_T1	2	14	12	0.1	0.17	0.07	-4.79	-2.97	2	0	-2	1800	0	-1800
6/9/2024 22:40	21203	ECAR_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
6/9/2024 22:40	60101	COCA_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
6/9/2024 22:40	43103	SMIL_T2	16	22	6	0.49	0.91	0.42	0	0	0	0	0	0	0	0
6/9/2024 22:40	45902	AUBU_T1	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
6/9/2024 22:41	67203	TEHI_T1	0	0	0	0	0	0	0.85	0.83	1	1	0	900	900	0
6/9/2024 22:41	47401	PENS_T1	0	0	0	0	0	0	0.88	0.84	0	0	0	0	0	0
6/9/2024 22:41	46506	LOHA_T1	1	1	0	0.1	0.4	0.3	-0.68	-0.7	0	0	0	0	0	0
6/9/2024 22:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:41	20401	ASHF_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
6/9/2024 22:41	43103	SMIL_T2	16	22	6	0.49	0.91	0.42	0	0	0	0	0	0	0	0
6/9/2024 22:41	43102	SMIL_T2	7	8	1	0.36	0.53	0.17	0	0	0	0	0	0	0	0
6/9/2024 22:41	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
6/9/2024 22:41	22101	EDEL_T2	0	0	0	0	0	0	0.58	0.57	1	1	0	1200	1200	0
6/9/2024 22:41	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
6/9/2024 22:41	46504	LOHA_T1	41	48	7	0.37	0.43	0.06	0	0	0	0	0	0	0	0
6/9/2024 22:41	12601	MACA_T1	0	0	0	0	0	0	0.86	0.84	0	0	0	0	0	0
6/9/2024 22:41	43104	SMIL_T2	0	0	0	0	0	0	-0.72	-0.73	1	1	0	300	300	0
6/9/2024 22:41	58401	MORO_T1	0	0	0	0	0	0	-1.6	-1	2	1	-1	1200	600	-600
6/9/2024 22:41	43105	SMIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:41	47402	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:41	52501	PROG_T1	0	12	12	0	0.11	0.11	0.6	0.53	1	1	0	300	300	0
6/9/2024 22:41	64101	REFR_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
6/9/2024 22:41	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:41	52504	PROG_T1	7	144	137	0.11	0.17	0.06	0	0	0	0	0	0	0	0
6/9/2024 22:41	16302	ALPA_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
6/9/2024 22:42	63804	HEMP_T1	1	1	0	5	4.8	-0.2	-0.2	-0.22	0	0	0	0	0	0
6/9/2024 22:42	62101	ELAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/9/2024 22:42	60501	NMAN_T2	3	3	0	4.57	5.27	0.7	0	0	0	0	0	0	0	0
6/9/2024 22:42	52404	GRPA_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
6/9/2024 22:42	45902	AUBU_T1	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
6/9/2024 22:42	62102	ELAN_T1	0	0	0	0	0	0	0.97	0.84	0	0	0	0	0	0
6/9/2024 22:42	52401	GRPA_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/9/2024 22:42	56501	ROCK_T2	5	60	55	0.2	0.16	-0.04	-1.21	-1.32	0	0	0	0	0	0
6/9/2024 22:42	60502	NMAN_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
6/9/2024 22:42	42903	MIDD_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
6/9/2024 22:42	63801	HEMP_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:42	11901	ETEX_T2	0	0	0	0	0	0	0.49	0.43	0	0	0	0	0	0
6/9/2024 22:42	42701	AUGU_T1	13	8	-5	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
6/9/2024 22:42	62105	ELAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:42	67605	WARW_T1	21	9	-12	0.24	0.22	-0.02	-1.09	-1.1	0	0	0	0	0	0
6/9/2024 22:42	52402	GRPA_T2	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
6/9/2024 22:42	42902	MIDD_T2	0	0	0	0	0	0	-1.25	-1.27	0	0	0	0	0	0
6/9/2024 22:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:42	46206	DANV_T2	0	0	0	0	0	0	2.11	2.11	1	1	0	1200	1200	0
6/9/2024 22:42	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:42	64101	REFR_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
6/9/2024 22:43	66502	SMAN_T2	0	0	0	0	0	0	-0.18	-0.13	0	0	0	0	0	0
6/9/2024 22:43	46101	MACI_T2	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
6/9/2024 22:43	12005	HATF_T1	5	4	-1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
6/9/2024 22:43	52102	MEIS_T1	0	19	19	0	0.15	0.15	0	0	0	0	0	0	0	0
6/9/2024 22:43	20603	GRWO_T2	11	14	3	0.15	0.15	0	0.35	0.34	0	0	0	0	0	0
6/9/2024 22:43	63501	HEID_TBK1-2	1	2	1	0.2	0.2	0	0.5	0.51	0	0	0	0	0	0
6/9/2024 22:43	52002	LING_T2	0	0	0	0	0	0	0.1	-0.01	0	0	0	0	0	0
6/9/2024 22:43	42701	AUGU_T1	13	8	-5	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
6/9/2024 22:43	45001	LIME_2	34	32	-2	0.46	0.42	-0.04	0	0	0	0	0	0	0	0
6/9/2024 22:43	12001	HATF_T1	16	0	-16	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 22:43	62102	ELAN_T1	0	0	0	0	0	0	0.97	0.84	0	0	0	0	0	0
6/9/2024 22:43	14601	SWHI_T1	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
6/9/2024 22:43	61102	BERK_T5	0	0	0	0	0	0	0.54	0.55	1	1	0	300	300	0
6/9/2024 22:43	12004	HATF_T1	11	5	-6	0.14	0.14	0	0	0	0	0	0	0	0	0
6/9/2024 22:43	52101	MEIS_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 22:43	56801	BENV_T1	15	14	-1	1.15	1.42	0.27	-1.08	-1.12	2	2	0	1200	1200	0
6/9/2024 22:43	27603	PIRI_T2	0	0	0	0	0	0	-1.15	-1.17	2	2	0	1800	1800	0
6/9/2024 22:43	12006	HATF_T1	0	0	0	0	0	0	0.4	0.34	0	0	0	0	0	0
6/9/2024 22:43	45003	LIME_2	2	2	0	2.4	2.5	0.1	0.23	0.2	0	0	0	0	0	0
6/9/2024 22:43	67602	WARW_T2	0	0	0	0	0	0	-0.03	-0.07	2	2	0	2400	2400	0
6/9/2024 22:43	62105	ELAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:43	20601	GRWO_T2	52	84	32	0.2	0.23	0.03	0	0	0	0	0	0	0	0
6/9/2024 22:43	46206	DANV_T2	0	0	0	0	0	0	2.11	2.11	1	1	0	1200	1200	0
6/9/2024 22:43	52402	GRPA_T2	1	1	0	0.1	1	0.9	-0.84	-0.84	0	0	0	0	0	0
6/9/2024 22:43	64403	LAND_T1	0	0	0	0	0	0	-1.72	-1.7	1	1	0	900	900	0
6/9/2024 22:43	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:43	62101	ELAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/9/2024 22:43	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:43	52404	GRPA_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
6/9/2024 22:43	45002	LIME_2	1	1	0	5	5.9	0.9	0	0	0	0	0	0	0	0
6/9/2024 22:43	52401	GRPA_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/9/2024 22:44	21204	ECAR_T2	1	1	0	0	0.6	0.6	-0.68	-0.69	0	0	0	0	0	0
6/9/2024 22:44	67602	WARW_T2	0	0	0	0	0	0	-0.02	-0.03	1	1	0	1200	1200	0
6/9/2024 22:44	40101	HUNT_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
6/9/2024 22:44	63404	HONY_T1	0	18	18	0	0.14	0.14	0	0	0	0	0	0	0	0
6/9/2024 22:44	65003	NEFF_T2	0	38	38	0	0.15	0.15	0	0	0	0	0	0	0	0
6/9/2024 22:44	43105	SMIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:44	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 22:44	43102	SMIL_T2	7	8	1	0.36	0.53	0.17	0	0	0	0	0	0	0	0
6/9/2024 22:44	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:44	42201	SHEN_T2	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
6/9/2024 22:44	67203	TEHI_T1	0	0	0	0	0	0	0.85	0.83	1	1	0	900	900	0
6/9/2024 22:44	59101	WALK_T2	0	0	0	0	0	0	2.7	2.74	0	0	0	0	0	0
6/9/2024 22:44	64101	REFR_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
6/9/2024 22:44	65001	NEFF_T2	0	119	119	0	0.2	0.2	-1.14	-1.16	1	1	0	1200	1200	0
6/9/2024 22:44	63401	HONY_T1	0	0	0	0	0	0	0.64	0.73	0	0	0	0	0	0
6/9/2024 22:44	55101	WERT_T1	0	0	0	0	0	0	-1.38	-1.4	2	2	0	1500	1500	0
6/9/2024 22:44	17804	GILB_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
6/9/2024 22:44	60103	COCA_T2	0	0	0	0	0	0	0.26	0.34	1	1	0	900	900	0
6/9/2024 22:44	43103	SMIL_T2	16	22	6	0.49	0.91	0.42	0	0	0	0	0	0	0	0
6/9/2024 22:44	45003	LIME_2	2	2	0	2.4	2.5	0.1	0.23	0.2	0	0	0	0	0	0
6/9/2024 22:44	45002	LIME_2	1	1	0	5	5.9	0.9	0	0	0	0	0	0	0	0
6/9/2024 22:44	60801	BUCK_T1	1	48	47	0.1	0.29	0.19	-0.87	-0.88	1	1	0	600	600	0
6/9/2024 22:44	21206	ECAR_T2	1	1	0	7.8	8.3	0.5	0	0	0	0	0	0	0	0
6/9/2024 22:44	43108	SMIL_T2	0	0	0	0	0	0	-2.49	-2.13	2	2	0	2400	2400	0
6/9/2024 22:44	17803	GILB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/9/2024 22:44	60803	BUCK_T1	0	10	10	0	0.18	0.18	-2.17	-2.18	2	2	0	1200	1200	0
6/9/2024 22:44	61304	EARL_T1	0	0	0	0	0	0	-0.91	-0.92	1	1	0	600	600	0
6/9/2024 22:44	45001	LIME_2	34	32	-2	0.46	0.42	-0.04	0	0	0	0	0	0	0	0
6/9/2024 22:44	66505	SMAN_T2	0	0	0	0	0	0	0.18	0.14	1	1	0	900	900	0
6/9/2024 22:44	65004	NEFF_T2	0	10	10	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/9/2024 22:45	65901	SAKR_T2	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0	0
6/9/2024 22:45	56801	BENV_T1	14	18	4	1.28	1.01	-0.27	-1.08	-1.12	2	2	0	1200	1200	0
6/9/2024 22:45	65603	QVIL_T2	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
6/9/2024 22:45	52402	GRPA_T2	1	3	2	0.5	0.5	0	-0.84	-0.84	0	0	0	0	0	0
6/9/2024 22:45	55002	NEWP_T1	6	6	0	0.85	1.13	0.28	-0.22	-0.23	0	0	0	0	0	0
6/9/2024 22:45	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
6/9/2024 22:45	42701	AUGU_T1	8	3	-5	0.38	0	-0.38	0	0	0	0	0	0	0	0
6/9/2024 22:45	20401	ASHF_T2	1	4	3	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/9/2024 22:45	44502	HAMI_T2	1	1	0	3.1	3.3	0.2	0	0	0	0	0	0	0	0
6/9/2024 22:45	46004	BERW_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
6/9/2024 22:45	56501	ROCK_T2	8	178	170	0.26	0.2	-0.06	-1.21	-1.32	0	0	0	0	0	0
6/9/2024 22:45	65902	SAKR_T2	0	0	0	0	0	0	-0.65	-0.66	1	1	0	300	300	0
6/9/2024 22:45	52002	LING_T2	0	0	0	0	0	0	0.1	-0.01	0	0	0	0	0	0
6/9/2024 22:45	63404	HONY_T1	6	52	46	0.13	0.19	0.06	0	0	0	0	0	0	0	0
6/9/2024 22:45	63401	HONY_T1	0	0	0	0	0	0	0.64	0.73	0	0	0	0	0	0
6/9/2024 22:45	45402	WBLO_T2	2	2	0	1.3	1.25	-0.05	-1.7	-1.72	1	1	0	900	900	0
6/9/2024 22:45	52401	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/9/2024 22:45	67602	WARW_T2	0	0	0	0	0	0	-0.02	-0.03	1	1	0	1200	1200	0
6/9/2024 22:45	44505	HAMI_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
6/9/2024 22:45	42903	MIDD_T2	1	2	1	0.1	0.45	0.35	-0.34	-0.44	0	0	0	0	0	0
6/9/2024 22:45	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:46	41902	REED_T1	0	0	0	0	0	0	0.9	0.91	0	0	0	0	0	0
6/9/2024 22:46	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/9/2024 22:46	64101	REFR_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
6/9/2024 22:46	52504	PROG_T1	109	138	29	0.13	0.17	0.04	0	0	0	0	0	0	0	0
6/9/2024 22:46	56801	BENV_T1	14	18	4	1.28	1.01	-0.27	-2.17	-2.24	4	4	0	2400	2400	0
6/9/2024 22:46	54701	NEBL_T1	1	1	0	0.9	1.1	0.2	0	0	1	1	0	600	600	0
6/9/2024 22:46	61803	EELI_T2	0	0	0	0	0	0	0.11	0.09	1	1	0	600	600	0
6/9/2024 22:46	59102	WALK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:46	67602	WARW_T2	0	0	0	0	0	0	-0.02	-0.03	1	1	0	1200	1200	0
6/9/2024 22:46	64801	MONE_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/9/2024 22:46	64802	MONE_T2	0	0	0	0	0	0	-0.53	-0.35	0	0	0	0	0	0
6/9/2024 22:46	67605	WARW_T1	4	17	13	0.25	0.26	0.01	-1.09	-1.1	0	0	0	0	0	0
6/9/2024 22:46	55002	NEWP_T1	6	6	0	0.85	1.13	0.28	-0.22	-0.23	0	0	0	0	0	0
6/9/2024 22:46	59101	WALK_T2	0	1	1	0	0.1	0.1	1.35	1.37	0	0	0	0	0	0
6/9/2024 22:46	56501	ROCK_T2	8	178	170	0.26	0.2	-0.06	-2.42	-2.64	0	0	0	0	0	0
6/9/2024 22:46	52501	PROG_T1	1	12	11	0.2	0.11	-0.09	0.6	0.53	1	1	0	300	300	0
6/9/2024 22:47	63404	HONY_T1	6	52	46	0.13	0.19	0.06	0	0	0	0	0	0	0	0
6/9/2024 22:47	58401	MORO_T1	0	0	0	0	0	0	-1.6	-1	2	1	-1	1200	600	-600
6/9/2024 22:47	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:47	66303	MCGO_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/9/2024 22:47	56801	BENV_T1	14	18	4	1.28	1.01	-0.27	-1.08	-1.12	2	2	0	1200	1200	0
6/9/2024 22:47	66302	MCGO_T2	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
6/9/2024 22:47	52402	GRPA_T2	1	3	2	0.5	0.5	0	0	0	0	0	0	0	0	0
6/9/2024 22:47	64101	REFR_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
6/9/2024 22:47	52401	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/9/2024 22:47	63804	HEMP_T1	1	1	0	4.8	4.9	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:47	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:47	52101	MEIS_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
6/9/2024 22:47	61502	EPET_T1	0	0	0	0	0	0	-1.03	-1.01	0	0	0	0	0	0
6/9/2024 22:47	63401	HONY_T1	0	0	0	0	0	0	0.64	0.73	0	0	0	0	0	0
6/9/2024 22:47	67602	WARW_T2	0	0	0	0	0	0	-0.02	-0.03	1	1	0	1200	1200	0
6/9/2024 22:47	52102	MEIS_T1	19	5	-14	0.15	0.16	0.01	0	0	0	0	0	0	0	0
6/9/2024 22:47	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:47	52403	GRPA_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/9/2024 22:47	63801	HEMP_T1	7	0	-7	0.1	0	-0.1	-1.06	-0.84	1	1	0	900	900	0
6/9/2024 22:47	56501	ROCK_T2	8	178	170	0.26	0.2	-0.06	-1.21	-1.32	0	0	0	0	0	0
6/9/2024 22:48	67605	WARW_T1	4	17	13	0.25	0.26	0.01	-1.09	-1.1	0	0	0	0	0	0
6/9/2024 22:48	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:48	63305	GREE_T1	14	0	-14	0.17	0	-0.17	0	0	0	0	0	0	0	0
6/9/2024 22:48	66505	SMAN_T2	0	0	0	0	0	0	0.18	0.14	1	1	0	900	900	0
6/9/2024 22:48	63301	GREE_T1	3	4	1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/9/2024 22:48	60803	BUCK_T1	4	14	10	0.18	0.29	0.11	-1.08	-1.09	1	1	0	600	600	0
6/9/2024 22:48	44302	BEAV_T2	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
6/9/2024 22:48	52401	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/9/2024 22:48	45001	LIME_2	26	33	7	0.35	0.45	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:48	63304	GREE_T1	0	0	0	0	0	0	-1.54	-1.48	0	0	0	0	0	0
6/9/2024 22:48	52403	GRPA_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/9/2024 22:48	45802	HEGI_T2	47	47	0	1.33	1.12	-0.21	0	0	0	0	0	0	0	0
6/9/2024 22:48	41902	REED_T1	0	0	0	0	0	0	0.9	0.91	0	0	0	0	0	0
6/9/2024 22:48	56801	BENV_T1	14	18	4	1.28	1.01	-0.27	-1.08	-1.12	2	2	0	1200	1200	0
6/9/2024 22:48	60801	BUCK_T1	19	59	40	0.16	0.38	0.22	0	0	0	0	0	0	0	0
6/9/2024 22:48	52402	GRPA_T2	1	3	2	0.5	0.5	0	0	0	0	0	0	0	0	0
6/9/2024 22:48	45003	LIME_2	2	2	0	2.3	2.75	0.45	0.23	0.2	0	0	0	0	0	0
6/9/2024 22:48	20601	GRWO_T2	84	2	-82	0.23	0.1	-0.13	-0.35	-0.37	0	0	0	0	0	0
6/9/2024 22:48	45002	LIME_2	1	1	0	5.1	5.9	0.8	0	0	0	0	0	0	0	0
6/9/2024 22:48	63501	HEID_TBK1-2	1	2	1	0.1	0.4	0.3	0.5	0.51	0	0	0	0	0	0
6/9/2024 22:48	20603	GRWO_T2	13	14	1	0.15	0.15	0	0	0	0	0	0	0	0	0
6/9/2024 22:48	65503	MOJO_T2	0	52	52	0	0.13	0.13	0	0	0	0	0	0	0	0
6/9/2024 22:49	61301	EARL_T1	0	0	0	0	0	0	-0.45	-0.46	1	1	0	900	900	0
6/9/2024 22:49	56801	BENV_T1	14	18	4	1.28	1.01	-0.27	-1.08	-1.12	2	2	0	1200	1200	0
6/9/2024 22:49	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:49	59102	WALK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:49	63302	GREE_T1	0	0	0	0	0	0	0.29	0.16	0	0	0	0	0	0
6/9/2024 22:49	59101	WALK_T2	0	1	1	0	0.1	0.1	1.35	1.37	0	0	0	0	0	0
6/9/2024 22:49	52101	MEIS_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
6/9/2024 22:49	63305	GREE_T1	14	0	-14	0.17	0	-0.17	0	0	0	0	0	0	0	0
6/9/2024 22:49	67605	WARW_T1	4	17	13	0.25	0.26	0.01	-1.09	-1.1	0	0	0	0	0	0
6/9/2024 22:49	63301	GREE_T1	3	4	1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/9/2024 22:49	65502	MOJO_T2	88	293	205	0.12	0.25	0.13	-1.82	-1.88	1	1	0	900	900	0
6/9/2024 22:49	52102	MEIS_T1	19	5	-14	0.15	0.16	0.01	0	0	0	0	0	0	0	0
6/9/2024 22:50	67901	WNHO_T2	12	11	-1	0.14	0.11	-0.03	-0.58	-0.56	0	0	0	0	0	0
6/9/2024 22:50	52002	LING_T2	0	0	0	0	0	0	0.2	-0.02	0	0	0	0	0	0
6/9/2024 22:50	44302	BEAV_T2	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
6/9/2024 22:50	63501	HEID_TBK1-2	1	2	1	0.1	0.4	0.3	0.5	0.51	0	0	0	0	0	0
6/9/2024 22:50	56801	BENV_T1	14	18	4	1.28	1.01	-0.27	-1.08	-1.12	2	2	0	1200	1200	0
6/9/2024 22:50	63804	HEMP_T1	1	1	0	4.8	4.9	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:50	63801	HEMP_T1	7	0	-7	0.1	0	-0.1	-1.06	-0.84	1	1	0	900	900	0
6/9/2024 22:50	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	900	900	0
6/9/2024 22:51	52102	MEIS_T1	19	5	-14	0.15	0.16	0.01	0	0	0	0	0	0	0	0
6/9/2024 22:51	52101	MEIS_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
6/9/2024 22:51	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	900	900	0
6/9/2024 22:51	67602	WARW_T2	0	0	0	0	0	0	-0.03	-0.05	1	1	0	1200	1200	0
6/9/2024 22:51	63804	HEMP_T1	1	1	0	4.8	4.9	0.1	-0.22	-0.24	0	0	0	0	0	0
6/9/2024 22:51	40101	HUNT_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
6/9/2024 22:51	64101	REFR_T1	0	0	0	0	0	0	0.01	0.22	0	0	0	0	0	0
6/9/2024 22:51	63801	HEMP_T1	7	0	-7	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/9/2024 22:51	56801	BENV_T1	14	18	4	1.28	1.01	-0.27	-1.08	-1.12	2	2	0	1200	1200	0
6/9/2024 22:52	52401	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/9/2024 22:52	56801	BENV_T1	14	18	4	1.28	1.01	-0.27	-1.12	-1.16	2	2	0	1200	1200	0
6/9/2024 22:52	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 22:52	52402	GRPA_T2	1	3	2	0.5	0.5	0	-0.84	-0.82	0	0	0	0	0	0
6/9/2024 22:52	53902	HALI_T2	1	1	0	6.2	6.7	0.5	0	0	0	0	0	0	0	0
6/9/2024 22:52	53903	HALI_T2	2	18	16	1.8	0.35	-1.45	-0.11	-0.11	0	0	0	0	0	0
6/9/2024 22:52	53901	HALI_T2	1	10	9	1.1	0.25	-0.85	0	0	0	0	0	0	0	0
6/9/2024 22:54	59102	WALK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/9/2024 22:54	59101	WALK_T2	0	1	1	0	0.1	0.1	1.37	1.28	0	0	0	0	0	0
6/9/2024 22:56	51004	NHAR_T1	13	13	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
6/9/2024 22:56	51003	NHAR_T1	6	81	75	0.3	0.14	-0.16	-2.14	-2.12	1	1	0	1200	1200	0
6/9/2024 22:56	51002	NHAR_T1	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
6/9/2024 23:12	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	900	900	0
6/9/2024 23:13	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	900	900	0
6/9/2024 23:46	51108	CARL_T1	1	1	0	0.1	0.2	0.1	-0.51	-0.54	0	0	0	0	0	0
6/9/2024 23:46	51101	CARL_T1	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
6/9/2024 23:46	51102	CARL_T1	54	112	58	0.15	0.23	0.08	0	0	0	0	0	0	0	0
6/9/2024 23:58	10102	ALLE_T2	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
6/9/2024 23:58	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2024 23:59	58202	NEWV_T1	8	8	0	0.51	0.43	-0.08	-0.16	-0.16	0	0	0	0	0	0
6/10/2024 0:18	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
6/10/2024 0:19	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
6/10/2024 1:26	67605	WARW_T1	14	26	12	0.74	0.67	-0.07	0	0	0	0	0	0	0	0
6/10/2024 1:26	67603	WARW_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
6/10/2024 1:41	47001	HUGH_T2	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
6/10/2024 1:48	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
6/10/2024 1:49	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
6/10/2024 2:00	64204	KINZ_T1	1	1	0	0.7	1.4	0.7	0	0	0	0	0	0	0	0
6/10/2024 2:00	64201	KINZ_T1	1	4	3	1.3	0.43	-0.87	0	0	0	0	0	0	0	0
6/10/2024 2:00	64203	KINZ_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
6/10/2024 2:00	64202	KINZ_T1	3	3	0	0.5	0.77	0.27	0	0	0	0	0	0	0	0
6/10/2024 2:01	64204	KINZ_T1	1	1	0	0.7	1.4	0.7	0	0	0	0	0	0	0	0
6/10/2024 2:01	64203	KINZ_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
6/10/2024 2:01	64201	KINZ_T1	1	4	3	1.3	0.43	-0.87	0	0	0	0	0	0	0	0
6/10/2024 2:01	64202	KINZ_T1	3	3	0	0.5	0.77	0.27	0	0	0	0	0	0	0	0
6/10/2024 2:11	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
6/10/2024 2:12	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
6/10/2024 2:34	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
6/10/2024 2:35	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
6/10/2024 3:23	65901	SAKR_T2	1	1	0	9.3	9.5	0.2	-1.49	-1.49	1	1	0	900	900	0
6/10/2024 4:02	61301	EARL_T1	0	0	0	0	0	0	-0.52	-0.52	1	1	0	900	900	0
6/10/2024 5:03	61301	EARL_T1	0	0	0	0	0	0	-0.53	-0.54	1	1	0	900	900	0
6/10/2024 6:21	56501	ROCK_T2	0	1	1	0	0.3	0.3	-0.08	-0.08	0	0	0	0	0	0
6/10/2024 6:36	56501	ROCK_T2	1	1	0	0.3	0	-0.3	-0.08	-0.07	0	0	0	0	0	0
6/10/2024 6:47	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
6/10/2024 6:49	15203	SFAR_T2	67	11	-56	0.14	0.13	-0.01	-2.65	-2.59	0	0	0	0	0	0
6/10/2024 6:52	15204	SFAR_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
6/10/2024 6:52	15203	SFAR_T2	67	11	-56	0.14	0.13	-0.01	-1.3	-1.27	0	0	0	0	0	0
6/10/2024 6:53	17805	GILB_T2	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
6/10/2024 6:57	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 6:57	62102	ELAN_T1	0	0	0	0	0	0	0.6	0.52	0	0	0	0	0	0
6/10/2024 6:58	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/10/2024 7:06	15203	SFAR_T2	1	14	13	0.1	0.12	0.02	-1.27	-1.24	0	0	0	0	0	0
6/10/2024 7:08	17805	GILB_T2	0	0	0	0	0	0	0.16	0.19	0	0	0	0	0	0
6/10/2024 7:10	62105	ELAN_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/10/2024 7:10	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 7:14	46801	HEPB_T2	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
6/10/2024 7:14	46803	HEPB_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
6/10/2024 7:17	15203	SFAR_T2	11	12	1	0.13	0.13	0	-1.27	-1.24	0	0	0	0	0	0
6/10/2024 7:18	15203	SFAR_T2	11	12	1	0.13	0.13	0	-1.27	-1.24	0	0	0	0	0	0
6/10/2024 7:21	67002	STHI_T2	0	0	0	0	0	0	1.26	1.29	0	0	0	0	0	0
6/10/2024 7:22	64701	LITI_T1	0	0	0	0	0	0	0.41	0.49	0	0	0	0	0	0
6/10/2024 7:22	15702	TANN_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
6/10/2024 7:22	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
6/10/2024 7:23	56801	BENV_T1	22	7	-15	0.78	0.43	-0.35	0	0	0	0	0	0	0	0
6/10/2024 7:23	56803	BENV_T1	1	1	0	1.7	1.9	0.2	-0.13	-0.12	0	0	0	0	0	0
6/10/2024 7:24	58006	WCAR_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
6/10/2024 7:25	56802	BENV_T2	1	2	1	0.6	0.6	0	-1.43	-1.4	0	0	0	0	0	0
6/10/2024 7:26	56802	BENV_T2	1	2	1	0.6	0.6	0	-1.43	-1.4	0	0	0	0	0	0
6/10/2024 7:27	41502	FAIR_T2	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
6/10/2024 7:29	46801	HEPB_T2	2	3	1	0.15	0.77	0.62	0.56	0.57	0	0	0	0	0	0
6/10/2024 7:29	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 7:29	67605	WARW_T1	18	32	14	0.64	0.58	-0.06	-1.04	-1.02	0	0	0	0	0	0
6/10/2024 7:30	46801	HEPB_T2	2	3	1	0.35	0.8	0.45	0	0	0	0	0	0	0	0
6/10/2024 7:30	46803	HEPB_T2	0	3	3	0	0.17	0.17	0.32	0.32	0	0	0	0	0	0
6/10/2024 7:31	46502	LOHA_T1	0	0	0	0	0	0	-0.05	-0.04	1	1	0	1200	1200	0
6/10/2024 7:31	46504	LOHA_T1	2	14	12	0.8	0.27	-0.53	0	0	0	0	0	0	0	0
6/10/2024 7:31	46506	LOHA_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
6/10/2024 7:34	64801	MONE_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/10/2024 7:34	15703	TANN_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
6/10/2024 7:34	54501	ENOL_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 7:34	54505	ENOL_T2	1	1	0	0.8	0.5	-0.3	-1.34	-1.34	1	1	0	600	600	0
6/10/2024 7:34	54502	ENOL_T2	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
6/10/2024 7:34	15702	TANN_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
6/10/2024 7:34	64802	MONE_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
6/10/2024 7:34	56501	ROCK_T2	1	1	0	0.4	0.5	0.1	-0.03	-0.01	0	0	0	0	0	0
6/10/2024 7:36	13704	SCHN_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
6/10/2024 7:36	54502	ENOL_T2	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
6/10/2024 7:36	54501	ENOL_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 7:36	54505	ENOL_T2	1	1	0	0.8	0.5	-0.3	-1.34	-1.34	1	1	0	600	600	0
6/10/2024 7:36	66703	STRA_T1	0	0	0	0	0	0	-0.41	-0.19	0	0	0	0	0	0
6/10/2024 7:37	56501	ROCK_T2	1	1	0	0.4	0.5	0.1	-0.01	0	0	0	0	0	0	0
6/10/2024 7:38	60305	TWVA_T2	0	0	0	0	0	0	-1.41	-1.42	2	2	0	2400	2400	0
6/10/2024 7:39	45501	DERR_T2	0	0	0	0	0	0	0.5	0.5	2	2	0	1800	1800	0
6/10/2024 7:39	45502	DERR_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/10/2024 7:40	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
6/10/2024 7:40	62104	ELAN_T1	0	0	0	0	0	0	0.51	0.5	2	2	0	1500	1500	0
6/10/2024 7:41	45502	DERR_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/10/2024 7:41	62104	ELAN_T1	0	0	0	0	0	0	1.03	1	4	4	0	3000	3000	0
6/10/2024 7:41	45501	DERR_T2	0	0	0	0	0	0	0.5	0.5	2	2	0	1800	1800	0
6/10/2024 7:43	52002	LING_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/10/2024 7:43	52004	LING_T2	0	1	1	0	0.3	0.3	0.37	0.37	0	0	0	0	0	0
6/10/2024 7:43	52006	LING_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 7:43	40101	HUNT_T2	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
6/10/2024 7:44	41801	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 7:44	64902	MILL_T2	0	0	0	0	0	0	-0.64	-0.61	1	1	0	900	900	0
6/10/2024 7:45	41801	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 7:46	23203	HIRU_T2	0	0	0	0	0	0	-0.04	0.04	0	0	0	0	0	0
6/10/2024 7:47	52006	LING_T2	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
6/10/2024 7:47	65904	SAKR_T2	0	0	0	0	0	0	-1.7	-1.68	3	3	0	1500	1500	0
6/10/2024 7:47	65901	SAKR_T2	1	1	0	8	7.7	-0.3	0	0	0	0	0	0	0	0
6/10/2024 7:47	52004	LING_T2	1	1	0	0.1	0.4	0.3	0.37	0.37	0	0	0	0	0	0
6/10/2024 7:47	17002	RIRO_T2	1	1	0	0.3	0.8	0.5	0.62	0.59	0	0	0	0	0	0
6/10/2024 7:47	52002	LING_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
6/10/2024 7:49	24204	PROV_T3	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
6/10/2024 7:49	24201	PROV_T3	2	1	-1	2.95	5.7	2.75	-1.45	-1.44	1	1	0	1200	1200	0
6/10/2024 7:50	40601	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 7:50	40602	PIGR_T1	1	1	0	0.5	0.8	0.3	-0.06	-0.04	1	1	0	600	600	0
6/10/2024 7:52	20403	ASHF_T2	1	3	2	0.1	0.3	0.2	0.63	0.77	0	0	0	0	0	0
6/10/2024 7:52	20401	ASHF_T2	3	3	0	0.63	0.3	-0.33	0	0	0	0	0	0	0	0
6/10/2024 7:53	43301	WATS_T2	1	0	-1	0.1	0	-0.1	-0.66	-0.65	1	1	0	900	900	0
6/10/2024 7:54	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 7:54	62604	ENGL_T1	0	0	0	0	0	0	-0.82	-0.85	0	0	0	0	0	0
6/10/2024 7:55	40802	EXCH_T2	1	1	0	0.2	0.4	0.2	0.06	0.35	0	0	0	0	0	0
6/10/2024 7:56	40802	EXCH_T2	1	1	0	0.2	0.4	0.2	0.06	0.35	0	0	0	0	0	0
6/10/2024 7:56	40801	EXCH_T2	0	0	0	0	0	0	-0.48	-0.5	1	1	0	1200	1200	0
6/10/2024 7:57	46803	HEPB_T2	1	3	2	0.1	0.17	0.07	0.32	0.32	0	0	0	0	0	0
6/10/2024 7:57	46801	HEPB_T2	3	3	0	0.77	0.7	-0.07	0	0	0	0	0	0	0	0
6/10/2024 7:57	40802	EXCH_T2	1	1	0	0.2	0.4	0.2	0.06	0.35	0	0	0	0	0	0
6/10/2024 7:58	23202	HIRU_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
6/10/2024 7:58	40802	EXCH_T2	1	1	0	0.2	0.4	0.2	0.06	0.35	0	0	0	0	0	0
6/10/2024 8:01	43202	MVIL_T2	0	67	67	0	0.45	0.45	-0.66	-0.66	0	0	0	0	0	0
6/10/2024 8:01	23203	HIRU_T2	0	0	0	0	0	0	0.04	0.13	0	0	0	0	0	0
6/10/2024 8:07	20401	ASHF_T2	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/10/2024 8:07	20403	ASHF_T2	3	1	-2	0.23	0.5	0.27	0.77	1.29	0	0	0	0	0	0
6/10/2024 8:08	58003	WCAR_T1	1	13	12	1.3	0.33	-0.97	0.44	0.88	1	0	-1	600	0	-600
6/10/2024 8:08	58001	WCAR_T1	4	4	0	0.75	1.4	0.65	0	0	0	0	0	0	0	0
6/10/2024 8:11	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 8:11	53901	HALI_T2	1	1	0	0.5	1.1	0.6	-1.48	-1.47	0	0	0	0	0	0
6/10/2024 8:11	40502	CRES_T2	12	0	-12	0.32	0	-0.32	0	0.01	0	0	0	0	0	0
6/10/2024 8:11	53902	HALI_T2	1	2	1	4.9	2.85	-2.05	0	0	0	0	0	0	0	0
6/10/2024 8:11	53903	HALI_T2	2	2	0	0.75	1.4	0.65	-0.2	-0.19	0	0	0	0	0	0
6/10/2024 8:12	53903	HALI_T2	2	2	0	0.75	1.4	0.65	-0.39	-0.38	0	0	0	0	0	0
6/10/2024 8:12	53902	HALI_T2	1	2	1	4.9	2.85	-2.05	0	0	0	0	0	0	0	0
6/10/2024 8:12	53901	HALI_T2	1	1	0	0.5	1.1	0.6	-1.48	-1.47	0	0	0	0	0	0
6/10/2024 8:13	53902	HALI_T2	1	2	1	4.9	2.85	-2.05	0	0	0	0	0	0	0	0
6/10/2024 8:13	53903	HALI_T2	2	2	0	0.75	1.4	0.65	-0.2	-0.19	0	0	0	0	0	0
6/10/2024 8:13	53901	HALI_T2	1	1	0	0.5	1.1	0.6	-1.48	-1.47	0	0	0	0	0	0
6/10/2024 8:15	53901	HALI_T2	1	1	0	1.1	1	-0.1	-4.43	-4.41	0	0	0	0	0	0
6/10/2024 8:15	53902	HALI_T2	1	2	1	5.6	3.1	-2.5	0	0	0	0	0	0	0	0
6/10/2024 8:15	58101	NEKI_T1	4	3	-1	0.28	0.37	0.09	0	0	0	0	0	0	0	0
6/10/2024 8:15	58102	NEKI_T1	2	3	1	1.05	0.8	-0.25	-0.92	-0.95	1	1	0	1200	1200	0
6/10/2024 8:15	53903	HALI_T2	2	4	2	1.4	0.88	-0.52	0	0	0	0	0	0	0	0
6/10/2024 8:16	42001	MNVL_T2	0	1	1	0	0.3	0.3	0.06	0.03	0	0	0	0	0	0
6/10/2024 8:16	42002	MNVL_T2	1	1	0	3.4	3.3	-0.1	0	0	0	0	0	0	0	0
6/10/2024 8:17	64101	REFR_T1	0	0	0	0	0	0	0.25	0.29	0	0	0	0	0	0
6/10/2024 8:17	42002	MNVL_T2	1	1	0	3.4	3.3	-0.1	0	0	0	0	0	0	0	0
6/10/2024 8:17	42001	MNVL_T2	0	1	1	0	0.3	0.3	0.06	0.03	0	0	0	0	0	0
6/10/2024 8:18	64101	REFR_T1	0	0	0	0	0	0	0.17	0.2	0	0	0	0	0	0
6/10/2024 8:21	42002	MNVL_T2	1	1	0	3.4	3.3	-0.1	0	0	0	0	0	0	0	0
6/10/2024 8:21	64101	REFR_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
6/10/2024 8:21	42001	MNVL_T2	0	1	1	0	0.3	0.3	0.03	0.04	0	0	0	0	0	0
6/10/2024 8:22	13704	SCHN_T2	0	1	1	0	0.1	0.1	-0.31	-0.3	0	0	0	0	0	0
6/10/2024 8:22	64101	REFR_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
6/10/2024 8:22	58006	WCAR_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
6/10/2024 8:23	20401	ASHF_T2	3	2	-1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
6/10/2024 8:23	67605	WARW_T1	23	15	-8	0.47	0.55	0.08	0	0	0	0	0	0	0	0
6/10/2024 8:23	56802	BENV_T2	1	2	1	1	0.8	-0.2	-0.64	-0.64	0	0	0	0	0	0
6/10/2024 8:23	59101	WALK_T2	0	0	0	0	0	0	3.93	3.82	0	0	0	0	0	0
6/10/2024 8:23	67604	WARW_T1	0	0	0	0	0	0	0.11	0.15	0	0	0	0	0	0
6/10/2024 8:23	20403	ASHF_T2	1	0	-1	0.5	0	-0.5	1.29	1.44	0	0	0	0	0	0
6/10/2024 8:23	59102	WALK_T2	2	2	0	1.4	0.1	-1.3	0	0	0	0	0	0	0	0
6/10/2024 8:24	56802	BENV_T2	1	2	1	1	0.8	-0.2	-0.64	-0.64	0	0	0	0	0	0
6/10/2024 8:24	58001	WCAR_T1	4	4	0	1.4	1.08	-0.32	0	0	0	0	0	0	0	0
6/10/2024 8:24	13704	SCHN_T2	0	1	1	0	0.1	0.1	-0.31	-0.3	0	0	0	0	0	0
6/10/2024 8:24	58003	WCAR_T1	13	4	-9	0.33	0.58	0.25	0.88	0.89	0	0	0	0	0	0
6/10/2024 8:26	56802	BENV_T2	1	2	1	1	0.8	-0.2	-0.64	-0.64	0	0	0	0	0	0
6/10/2024 8:27	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0.31	0.3	1	1	0	300	300	0
6/10/2024 8:28	63401	HONY_T1	0	0	0	0	0	0	1.08	1.12	0	0	0	0	0	0
6/10/2024 8:30	47802	MOCA_T2	1	0	-1	0.2	0	-0.2	-0.92	-0.9	0	0	0	0	0	0
6/10/2024 8:30	63401	HONY_T1	0	0	0	0	0	0	1.08	1.12	0	0	0	0	0	0
6/10/2024 8:31	63401	HONY_T1	0	0	0	0	0	0	1.08	1.12	0	0	0	0	0	0
6/10/2024 8:33	47802	MOCA_T2	1	0	-1	0.2	0	-0.2	-0.92	-0.9	0	0	0	0	0	0
6/10/2024 8:34	43801	SWIL_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
6/10/2024 8:34	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.17	1	1	0	600	600	0
6/10/2024 8:36	20401	ASHF_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
6/10/2024 8:36	20403	ASHF_T2	0	0	0	0	0	0	1.29	1.44	0	0	0	0	0	0
6/10/2024 8:37	58003	WCAR_T1	3	6	3	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
6/10/2024 8:37	13704	SCHN_T2	0	1	1	0	0.2	0.2	-0.3	-0.29	0	0	0	0	0	0
6/10/2024 8:37	58001	WCAR_T1	4	4	0	1.08	1.13	0.05	0.81	0.8	0	0	0	0	0	0
6/10/2024 8:38	51108	CARL_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/10/2024 8:38	20401	ASHF_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
6/10/2024 8:38	51101	CARL_T1	1	1	0	5.7	5.7	0	-1.08	-1.08	1	1	0	600	600	0
6/10/2024 8:38	20403	ASHF_T2	0	0	0	0	0	0	1.44	1.53	0	0	0	0	0	0
6/10/2024 8:38	67605	WARW_T1	15	13	-2	0.55	0.53	-0.02	-0.87	-0.91	0	0	0	0	0	0
6/10/2024 8:38	51102	CARL_T1	2	4	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/10/2024 8:39	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 8:39	67605	WARW_T1	15	13	-2	0.55	0.53	-0.02	-0.87	-0.91	0	0	0	0	0	0
6/10/2024 8:40	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 8:42	63501	HEID_TBK1-2	2	2	0	0.45	0.7	0.25	0.26	0.29	1	1	0	900	900	0
6/10/2024 8:42	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 8:42	10805	OHIH_T2	1	1	0	9.2	8.9	-0.3	-0.52	-0.42	1	1	0	600	600	0
6/10/2024 8:46	58101	NEKI_T1	2	3	1	0.4	0.67	0.27	0	0	0	0	0	0	0	0
6/10/2024 8:46	58401	MORO_T1	0	0	0	0	0	0	-0.86	-0.84	1	1	0	600	600	0
6/10/2024 8:46	58102	NEKI_T1	2	3	1	1.15	1.07	-0.08	-0.89	-0.85	1	1	0	1200	1200	0
6/10/2024 8:48	60502	NMAN_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
6/10/2024 8:48	60501	NMAN_T2	3	3	0	4	5.13	1.13	0	0	0	0	0	0	0	0
6/10/2024 8:48	60504	NMAN_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
6/10/2024 8:49	58401	MORO_T1	0	0	0	0	0	0	-0.86	-0.84	1	1	0	600	600	0
6/10/2024 8:49	60504	NMAN_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
6/10/2024 8:49	60502	NMAN_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
6/10/2024 8:49	60501	NMAN_T2	3	3	0	4	5.13	1.13	0	0	0	0	0	0	0	0
6/10/2024 8:50	43801	SWIL_T1	1	2	1	5.3	2.75	-2.55	0	0	0	0	0	0	0	0
6/10/2024 8:50	58401	MORO_T1	0	0	0	0	0	0	-0.86	-0.84	1	1	0	600	600	0
6/10/2024 8:50	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.16	1	1	0	600	600	0
6/10/2024 8:53	58002	WCAR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 8:53	27502	WEIS_T2	0	0	0	0	0	0	0.12	0.2	0	0	0	0	0	0
6/10/2024 8:53	58006	WCAR_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/10/2024 8:55	62605	ENGL_T1	0	0	0	0	0	0	-1.87	-1.81	0	0	0	0	0	0
6/10/2024 8:57	47202	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 8:57	47203	FAXO_T2	0	0	0	0	0	0	-1.5	-1.5	1	1	0	1200	1200	0
6/10/2024 8:59	14801	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 9:01	11507	FREE_T2	0	0	0	0	0	0	1.17	1.16	0	0	0	0	0	0
6/10/2024 9:02	51101	CARL_T1	1	1	0	6.2	6.1	-0.1	-1.08	-1.07	1	1	0	600	600	0
6/10/2024 9:02	51102	CARL_T1	4	57	53	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
6/10/2024 9:02	51108	CARL_T1	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
6/10/2024 9:03	14802	TREI_T2	0	0	0	0	0	0	0.93	0.96	0	0	0	0	0	0
6/10/2024 9:03	14801	TREI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/10/2024 9:04	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
6/10/2024 9:04	56501	ROCK_T2	2	4	2	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
6/10/2024 9:04	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 9:04	43202	MVIL_T2	87	0	-87	0.49	0	-0.49	-1.3	-1.29	0	0	0	0	0	0
6/10/2024 9:04	56504	ROCK_T2	0	1	1	0	0.3	0.3	-0.12	-0.11	0	0	0	0	0	0
6/10/2024 9:04	15702	TANN_T2	0	1	1	0	0.2	0.2	-0.3	-0.39	0	0	0	0	0	0
6/10/2024 9:05	50701	SMEC_T1	0	1	1	0	0.2	0.2	0.2	0.3	2	2	0	1800	1800	0
6/10/2024 9:07	56801	BENV_T1	10	16	6	0.49	0.74	0.25	-0.25	-0.23	1	1	0	600	600	0
6/10/2024 9:07	56803	BENV_T1	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
6/10/2024 9:08	56802	BENV_T2	1	4	3	0.8	0.45	-0.35	-0.62	-0.62	0	0	0	0	0	0
6/10/2024 9:08	56801	BENV_T1	10	16	6	0.49	0.74	0.25	-0.49	-0.47	2	2	0	1200	1200	0
6/10/2024 9:08	56803	BENV_T1	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
6/10/2024 9:11	56801	BENV_T1	10	16	6	0.49	0.74	0.25	-0.49	-0.47	2	2	0	1200	1200	0
6/10/2024 9:11	56803	BENV_T1	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
6/10/2024 9:12	56801	BENV_T1	10	16	6	0.49	0.74	0.25	-0.25	-0.23	1	1	0	600	600	0
6/10/2024 9:12	56803	BENV_T1	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
6/10/2024 9:13	56801	BENV_T1	10	16	6	0.49	0.74	0.25	-0.25	-0.23	1	1	0	600	600	0
6/10/2024 9:13	56803	BENV_T1	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
6/10/2024 9:17	56801	BENV_T1	10	17	7	0.7	0.73	0.03	-0.25	-0.23	1	1	0	600	600	0
6/10/2024 9:17	56803	BENV_T1	1	3	2	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/10/2024 9:22	67203	TEHI_T1	0	3	3	0	0.47	0.47	2.09	2.11	3	3	0	2100	2100	0
6/10/2024 9:22	67201	TEHI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 9:23	67605	WARW_T1	10	11	1	0.28	0.28	0	-0.91	-0.9	0	0	0	0	0	0
6/10/2024 9:23	56803	BENV_T1	1	3	2	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/10/2024 9:23	56801	BENV_T1	10	17	7	0.7	0.73	0.03	-0.23	-0.21	1	1	0	600	600	0
6/10/2024 9:24	53601	DALM_T2	1	1	0	1.3	0.5	-0.8	-0.08	-0.1	1	1	0	900	900	0
6/10/2024 9:24	55102	WERT_T2	0	0	0	0	0	0	-0.79	-0.86	2	2	0	1200	1200	0
6/10/2024 9:25	45402	WBLO_T2	2	2	0	0.8	0.85	0.05	-0.69	-0.69	0	0	0	0	0	0
6/10/2024 9:26	14801	TREI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/10/2024 9:26	56803	BENV_T1	1	3	2	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/10/2024 9:26	14802	TREI_T2	0	0	0	0	0	0	0.98	1.01	0	0	0	0	0	0
6/10/2024 9:26	56801	BENV_T1	10	17	7	0.7	0.73	0.03	-0.23	-0.21	1	1	0	600	600	0
6/10/2024 9:27	55102	WERT_T2	0	0	0	0	0	0	-0.79	-0.86	2	2	0	1200	1200	0
6/10/2024 9:27	56803	BENV_T1	1	3	2	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/10/2024 9:27	56801	BENV_T1	10	17	7	0.7	0.73	0.03	-0.47	-0.43	2	2	0	1200	1200	0
6/10/2024 9:28	16702	MACK_T1	1	0	-1	0.2	0	-0.2	-1.02	-1.02	0	0	0	0	0	0
6/10/2024 9:28	56801	BENV_T1	10	17	7	0.7	0.73	0.03	-0.94	-0.85	4	4	0	2400	2400	0
6/10/2024 9:28	56803	BENV_T1	1	3	2	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/10/2024 9:29	63501	HEID_TBK1-2	5	9	4	0.48	0.3	-0.18	0.65	0.61	2	2	0	1800	1800	0
6/10/2024 9:30	58402	MORO_T1	0	0	0	0	0	0	-0.82	-0.81	3	3	0	2400	2400	0
6/10/2024 9:30	57303	MOAL_T2	1	1	0	6.5	6.7	0.2	0	0	0	0	0	0	0	0
6/10/2024 9:30	57306	MOAL_T2	1	1	0	0.2	0.1	-0.1	-3.12	-3.11	1	1	0	1200	1200	0
6/10/2024 9:30	40901	JESH_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/10/2024 9:30	40902	JESH_T1	0	0	0	0	0	0	-0.35	-0.21	0	0	0	0	0	0
6/10/2024 9:30	57304	MOAL_T2	2	1	-1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/10/2024 9:31	40901	JESH_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/10/2024 9:31	58402	MORO_T1	0	0	0	0	0	0	-0.82	-0.81	3	3	0	2400	2400	0
6/10/2024 9:31	40902	JESH_T1	0	0	0	0	0	0	-0.35	-0.21	0	0	0	0	0	0
6/10/2024 9:34	56504	ROCK_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
6/10/2024 9:34	56501	ROCK_T2	4	4	0	0.45	0.35	-0.1	0.08	0.1	0	0	0	0	0	0
6/10/2024 9:34	56503	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/10/2024 9:35	67502	WEWI_T2	8	19	11	0.28	0.28	0	-1.14	-1.01	1	1	0	900	900	0
6/10/2024 9:36	56504	ROCK_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
6/10/2024 9:36	56503	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/10/2024 9:36	44601	SALE_T2	0	0	0	0	0	0	0.51	0.93	2	2	0	1200	1200	0
6/10/2024 9:36	56501	ROCK_T2	4	4	0	0.45	0.35	-0.1	0.17	0.2	0	0	0	0	0	0
6/10/2024 9:37	40201	BEGA_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/10/2024 9:37	56504	ROCK_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
6/10/2024 9:37	56501	ROCK_T2	4	4	0	0.45	0.35	-0.1	0.1	0.11	0	0	0	0	0	0
6/10/2024 9:37	56503	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/10/2024 9:37	45902	AUBU_T1	0	0	0	0	0	0	-0.44	-0.44	1	1	0	600	600	0
6/10/2024 9:38	10805	CHHI_T2	2	2	0	5.1	4.65	-0.45	-0.47	-0.36	1	1	0	600	600	0
6/10/2024 9:38	10801	CHHI_T1	2	0	-2	0.25	0	-0.25	-0.55	-0.58	1	1	0	900	900	0
6/10/2024 9:39	56801	BENV_T1	16	14	-2	0.74	0.8	0.06	-0.43	-0.44	2	2	0	1200	1200	0
6/10/2024 9:39	56803	BENV_T1	2	3	1	0.45	0.97	0.52	0	0	0	0	0	0	0	0
6/10/2024 9:40	45902	AUBU_T1	0	0	0	0	0	0	-0.44	-0.44	1	1	0	600	600	0
6/10/2024 9:41	67605	WARW_T1	10	5	-5	0.24	0.36	0.12	-0.9	-0.89	0	0	0	0	0	0
6/10/2024 9:41	67502	WEWI_T2	8	19	11	0.28	0.28	0	0	0	0	0	0	0	0	0
6/10/2024 9:41	40602	PIGR_T1	1	1	0	1.1	0.3	-0.8	0	0	2	2	0	1200	1200	0
6/10/2024 9:41	21203	ECAR_T1	0	0	0	0	0	0	0.77	0.77	0	0	0	0	0	0
6/10/2024 9:41	67503	WEWI_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
6/10/2024 9:41	40601	PIGR_T1	2	4	2	0.15	0.23	0.08	0	0	0	0	0	0	0	0
6/10/2024 9:41	40201	BEGA_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/10/2024 9:42	56803	BENV_T1	2	3	1	0.45	0.97	0.52	0	0	0	0	0	0	0	0
6/10/2024 9:42	40602	PIGR_T1	1	1	0	1.1	0.3	-0.8	0	0	0	0	0	0	0	0
6/10/2024 9:42	40601	PIGR_T1	2	4	2	0.15	0.23	0.08	0	0	0	0	0	0	0	0
6/10/2024 9:42	56801	BENV_T1	16	14	-2	0.74	0.8	0.06	-0.43	-0.44	2	2	0	1200	1200	0
6/10/2024 9:43	56803	BENV_T1	2	3	1	0.45	0.97	0.52	0	0	0	0	0	0	0	0
6/10/2024 9:43	56801	BENV_T1	16	14	-2	0.74	0.8	0.06	-0.43	-0.44	2	2	0	1200	1200	0
6/10/2024 9:44	56803	BENV_T1	2	3	1	0.45	0.97	0.52	0	0	0	0	0	0	0	0
6/10/2024 9:44	40601	PIGR_T1	2	4	2	0.15	0.23	0.08	0	0	0	0	0	0	0	0
6/10/2024 9:44	42903	MIDD_T2	2	2	0	1.25	1.55	0.3	0	0	0	0	0	0	0	0
6/10/2024 9:44	42902	MIDD_T2	7	7	0	0.36	0.53	0.17	-0.15	-0.28	1	1	0	600	600	0
6/10/2024 9:44	40602	PIGR_T1	1	1	0	1.1	0.3	-0.8	0	0	0	0	0	0	0	0
6/10/2024 9:44	56801	BENV_T1	16	14	-2	0.74	0.8	0.06	-0.43	-0.44	2	2	0	1200	1200	0
6/10/2024 9:45	20601	ORMO_T2	0	0	0	0	0	0	1.13	0.22	0	0	0	0	0	0
6/10/2024 9:46	42002	MNVL_T2	1	1	0	3.6	3.6	0	-0.01	0.01	0	0	0	0	0	0
6/10/2024 9:46	42902	MIDD_T2	7	6	-1	0.53	0.4	-0.13	-0.29	-0.57	2	2	0	1200	1200	0
6/10/2024 9:46	42903	MIDD_T2	2	2	0	1.55	0.9	-0.65	0	0	0	0	0	0	0	0
6/10/2024 9:46	42001	MNVL_T2	4	4	0	0.33	0.43	0.1	0	0	0	0	0	0	0	0
6/10/2024 9:46	40602	PIGR_T1	1	1	0	0.5	0.2	-0.3	0	0	1	1	0	600	600	0
6/10/2024 9:46	40601	PIGR_T1	3	6	3	0.27	0.18	-0.09	0	0	0	0	0	0	0	0
6/10/2024 9:47	55002	NEWP_T1	15	13	-2	0.85	0.77	-0.08	-0.18	-0.17	0	0	0	0	0	0
6/10/2024 9:47	42902	MIDD_T2	7	6	-1	0.53	0.4	-0.13	-0.15	-0.28	1	1	0	600	600	0
6/10/2024 9:47	42903	MIDD_T2	2	2	0	1.55	0.9	-0.65	0	0	0	0	0	0	0	0
6/10/2024 9:47	55001	NEWP_T1	3	2	-1	0.77	0.7	-0.07	0	0	0	0	0	0	0	0
6/10/2024 9:48	42902	MIDD_T2	7	6	-1	0.53	0.4	-0.13	-0.29	-0.57	2	2	0	1200	1200	0
6/10/2024 9:48	42903	MIDD_T2	2	2	0	1.55	0.9	-0.65	0	0	0	0	0	0	0	0
6/10/2024 9:48	55001	NEWP_T1	3	2	-1	0.77	0.7	-0.07	0	0	0	0	0	0	0	0
6/10/2024 9:48	55002	NEWP_T1	15	13	-2	0.85	0.77	-0.08	-0.18	-0.17	0	0	0	0	0	0
6/10/2024 9:49	43105	SMIL_T2	2	1	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/10/2024 9:49	43102	SMIL_T2	6	4	-2	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
6/10/2024 9:49	43103	SMIL_T2	15	18	3	0.51	0.48	-0.03	0	0	0	0	0	0	0	0
6/10/2024 9:49	43101	SMIL_T2	1	1	0	0.3	0.5	0.2	-0.61	-0.61	0	0	0	0	0	0
6/10/2024 9:50	66504	SMAN_T2	0	0	0	0	0	0	-0.16	-0.05	0	0	0	0	0	0
6/10/2024 9:50	55001	NEWP_T1	3	2	-1	0.77	0.7	-0.07	0	0	0	0	0	0	0	0
6/10/2024 9:50	43304	WATS_T2	0	0	0	0	0	0	-0.53	-0.67	0	0	0	0	0	0
6/10/2024 9:50	66502	SMAN_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
6/10/2024 9:50	43301	WATS_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/10/2024 9:50	55002	NEWP_T1	15	13	-2	0.85	0.77	-0.08	-0.18	-0.17	0	0	0	0	0	0
6/10/2024 9:51	59101	WALK_T2	3	1	-2	0.37	0.1	-0.27	0.02	1.39	0	0	0	0	0	0
6/10/2024 9:51	66502	SMAN_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
6/10/2024 9:51	66503	SMAN_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
6/10/2024 9:51	59102	WALK_T2	3	1	-2	0.37	0.2	-0.17	0	-0.17	0	0	0	0	0	0
6/10/2024 9:51	55002	NEWP_T1	15	13	-2	0.85	0.77	-0.08	-0.18	-0.17	0	0	0	0	0	0
6/10/2024 9:51	55001	NEWP_T1	3	2	-1	0.77	0.7	-0.07	0	0	0	0	0	0	0	0
6/10/2024 9:52	66502	SMAN_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
6/10/2024 9:52	66504	SMAN_T2	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
6/10/2024 9:53	59101	WALK_T2	3	1	-2	0.37	0.1	-0.27	0.7	0.25	0	0	0	0	0	0
6/10/2024 9:53	67803	WLAN_T1	1	3	2	0.2	0.3	0.1	-0.76	-0.75	0	0	0	0	0	0
6/10/2024 9:53	67804	WLAN_T1	2	5	3	0.15	0.18	0.03	-1.01	-0.99	0	0	0	0	0	0
6/10/2024 9:53	59102	WALK_T2	3	1	-2	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
6/10/2024 9:54	56801	BENV_T1	13	13	0	0.7	0.75	0.05	-0.44	-0.45	2	2	0	1200	1200	0
6/10/2024 9:54	10801	CHHI_T1	0	0	0	0	0	0	-0.58	-0.58	1	1	0	900	900	0
6/10/2024 9:54	56803	BENV_T1	3	3	0	1.07	0.97	-0.1	0	0	0	0	0	0	0	0
6/10/2024 9:55	56803	BENV_T1	3	3	0	1.07	0.97	-0.1	0	0	0	0	0	0	0	0
6/10/2024 9:55	43301	WATS_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/10/2024 9:55	43304	WATS_T2	0	0	0	0	0	0	-0.67	-0.62	0	0	0	0	0	0
6/10/2024 9:55	56801	BENV_T1	13	13	0	0.7	0.75	0.05	-0.44	-0.45	2	2	0	1200	1200	0
6/10/2024 9:56	55105	WERT_T1	0	0	0	0	0	0	-0.3	-0.29	1	1	0	900	900	0
6/10/2024 9:57	24702	ELND_T2	0	0	0	0	0	0	0.13	0.16	1	1	0	1200	1200	0
6/10/2024 9:58	63303	GREE_T1	0	1	1	0	0.3	0.3	-0.59	-0.46	2	2	0	1800	1800	0
6/10/2024 9:58	56801	BENV_T1	13	13	0	0.7	0.75	0.05	-0.44	-0.45	2	2	0	1200	1200	0
6/10/2024 9:58	63305	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 9:58	56803	BENV_T1	3	3	0	1.07	0.97	-0.1	0	0	0	0	0	0	0	0
6/10/2024 9:59	40101	HUNT_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
6/10/2024 9:59	63602	LETO_T1	0	1	1	0	0.4	0.4	-0.11	0	0	0	0	0	0	0
6/10/2024 9:59	56803	BENV_T1	3	3	0	1.07	0.97	-0.1	0	0	0	0	0	0	0	0
6/10/2024 9:59	56801	BENV_T1	13	13	0	0.7	0.75	0.05	-0.22	-0.23	1	1	0	600	600	0
6/10/2024 9:59	63601	LETO_T1	7	6	-1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
6/10/2024 10:00	40505	CRES_T1	3	3	0	4.13	3.93	-0.2	0.41	0.42	0	0	0	0	0	0
6/10/2024 10:00	63601	LETO_T1	6	6	0	0.22	0.3	0.08	0	0	0	0	0	0	0	0
6/10/2024 10:00	13502	MCMI_T1	1	4	3	0.2	0.58	0.38	0	0	0	0	0	0	0	0
6/10/2024 10:00	13501	MCMI_T1	0	1	1	0	0.3	0.3	0.11	0.11	0	0	0	0	0	0
6/10/2024 10:00	43801	SWIL_T1	2	2	0	5	5.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 10:00	67503	WEWI_T2	0	2	2	0	0.2	0.2	0.05	-0.06	0	0	0	0	0	0
6/10/2024 10:00	17002	RIRO_T2	1	3	2	0.2	0.63	0.43	0.74	0.84	0	0	0	0	0	0
6/10/2024 10:00	58003	WCAR_T1	4	4	0	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
6/10/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	0.7	0.75	0	0	0	0	0	0
6/10/2024 10:00	63602	LETO_T1	0	1	1	0	0.4	0.4	-0.11	0	0	0	0	0	0	0
6/10/2024 10:00	13701	SCHN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 10:00	43301	WATS_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
6/10/2024 10:00	10602	BLGL_T2	0	0	0	0	0	0	0.95	1.2	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/10/2024 10:00	43304	WATS_T2	0	0	0	0	0	0	-1.34	-1.25	0	0	0	0	0	0
6/10/2024 10:00	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 10:00	43101	SMIL_T2	1	1	0	0.3	0.5	0.2	-0.61	-0.6	0	0	0	0	0	0
6/10/2024 10:00	13704	SCHN_T2	0	1	1	0	0.3	0.3	-0.75	-0.72	0	0	0	0	0	0
6/10/2024 10:00	43103	SMIL_T2	17	18	1	0.49	0.44	-0.05	0	0	0	0	0	0	0	0
6/10/2024 10:00	67502	WEWI_T2	19	118	99	0.27	0.24	-0.03	-1.01	-1.04	1	1	0	900	900	0
6/10/2024 10:00	24201	PROV_T3	1	1	0	6.6	7.1	0.5	-1.33	-1.32	1	1	0	1200	1200	0
6/10/2024 10:00	43102	SMIL_T2	4	4	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
6/10/2024 10:00	46502	LOHA_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
6/10/2024 10:00	24204	PROV_T3	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
6/10/2024 10:00	60305	TWVA_T2	0	0	0	0	0	0	-1.48	-1.49	2	2	0	2400	2400	0
6/10/2024 10:00	53902	HALI_T2	2	3	1	3.45	2.53	-0.92	0	0	0	0	0	0	0	0
6/10/2024 10:00	58001	WCAR_T1	4	5	1	0.85	0.9	0.05	0.86	0.87	0	0	0	0	0	0
6/10/2024 10:00	53903	HALI_T2	9	14	5	0.72	0.74	0.02	0	0	0	0	0	0	0	0
6/10/2024 10:00	53901	HALI_T2	1	1	0	0.9	0.9	0	-0.96	-0.96	0	0	0	0	0	0
6/10/2024 10:00	43802	SWIL_T1	0	0	0	0	0	0	-0.14	-0.13	1	1	0	600	600	0
6/10/2024 10:00	46506	LOHA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/10/2024 10:02	52502	PROG_T2	3	5	2	0.3	0.38	0.08	0	0	0	0	0	0	0	0
6/10/2024 10:02	63601	LETO_T1	6	6	0	0.22	0.3	0.08	0.69	1.02	1	1	0	900	900	0
6/10/2024 10:02	52503	PROG_T2	0	0	0	0	0	0	-2.19	-1.83	4	4	0	3600	3600	0
6/10/2024 10:02	63602	LETO_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/10/2024 10:03	52502	PROG_T2	3	5	2	0.3	0.38	0.08	0	0	0	0	0	0	0	0
6/10/2024 10:03	52503	PROG_T2	0	0	0	0	0	0	-1.1	-0.91	2	2	0	1800	1800	0
6/10/2024 10:04	67605	WARW_T1	3	8	5	0.3	0.53	0.23	-0.89	-0.88	0	0	0	0	0	0
6/10/2024 10:05	57401	SPAN_T1	2	3	1	0.5	1.7	1.2	-1.6	-1.71	2	2	0	1200	1200	0
6/10/2024 10:05	57403	SPAN_T1	4	1	-3	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/10/2024 10:05	43301	WATS_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
6/10/2024 10:05	67402	WAKE_T2	0	0	0	0	0	0	0.54	0.56	1	1	0	600	600	0
6/10/2024 10:05	52502	PROG_T2	3	5	2	0.3	0.38	0.08	0	0	0	0	0	0	0	0
6/10/2024 10:05	43304	WATS_T2	0	0	0	0	0	0	-0.67	-0.62	0	0	0	0	0	0
6/10/2024 10:05	24204	PROV_T3	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
6/10/2024 10:05	67501	WEWI_T1	4	8	4	0.6	0.56	-0.04	-0.72	-0.84	1	1	0	600	600	0
6/10/2024 10:05	67505	WEWI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 10:05	24201	PROV_T3	1	1	0	6.6	7.1	0.5	-1.33	-1.32	1	1	0	1200	1200	0
6/10/2024 10:05	52503	PROG_T2	0	0	0	0	0	0	-0.55	-0.46	1	1	0	900	900	0
6/10/2024 10:05	67401	WAKE_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
6/10/2024 10:06	67502	WEWI_T2	19	118	99	0.27	0.24	-0.03	-2.08	-2.05	2	2	0	1800	1800	0
6/10/2024 10:06	64101	REFR_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
6/10/2024 10:06	64802	MONE_T2	2	6	4	0.15	0.33	0.18	0.36	0.37	0	0	0	0	0	0
6/10/2024 10:06	67503	WEWI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 10:06	57401	SPAN_T1	2	3	1	0.5	1.7	1.2	-1.6	-1.71	2	2	0	1200	1200	0
6/10/2024 10:06	52503	PROG_T2	0	0	0	0	0	0	-0.55	-0.46	1	1	0	900	900	0
6/10/2024 10:06	62105	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 10:06	60201	ATGL_T2	0	0	0	0	0	0	1.22	1.19	0	0	0	0	0	0
6/10/2024 10:06	62102	ELAN_T1	0	0	0	0	0	0	0.83	0.86	0	0	0	0	0	0
6/10/2024 10:06	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 10:06	57403	SPAN_T1	4	1	-3	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/10/2024 10:06	52502	PROG_T2	3	5	2	0.3	0.38	0.08	0	0	0	0	0	0	0	0
6/10/2024 10:07	67503	WEWI_T2	0	2	2	0	0.2	0.2	-0.06	-0.06	0	0	0	0	0	0
6/10/2024 10:07	45902	AUBU_T1	0	0	0	0	0	0	-0.39	-0.42	1	1	0	600	600	0
6/10/2024 10:07	67502	WEWI_T2	19	118	99	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
6/10/2024 10:07	13704	SCHN_T2	0	1	1	0	0.3	0.3	-0.24	-0.24	0	0	0	0	0	0
6/10/2024 10:07	13701	SCHN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 10:07	64101	REFR_T1	0	0	0	0	0	0	0.56	0.6	0	0	0	0	0	0
6/10/2024 10:08	57403	SPAN_T1	4	1	-3	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/10/2024 10:08	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 10:08	20401	ASHF_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
6/10/2024 10:08	11903	ETEX_T1	0	0	0	0	0	0	0.72	0.77	0	0	0	0	0	0
6/10/2024 10:08	57401	SPAN_T1	2	3	1	0.5	1.7	1.2	-1.71	-1.41	2	2	0	1200	1200	0
6/10/2024 10:08	43802	SWIL_T1	0	0	0	0	0	0	-0.13	-0.12	1	1	0	600	600	0
6/10/2024 10:08	60201	ATGL_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
6/10/2024 10:08	20403	ASHF_T2	0	0	0	0	0	0	1.45	1.52	0	0	0	0	0	0
6/10/2024 10:08	43801	SWIL_T1	2	2	0	5	5.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 10:09	67402	WAKE_T2	0	0	0	0	0	0	0.56	0.58	1	1	0	600	600	0
6/10/2024 10:09	67201	TEHI_T1	1	4	3	0.3	0.3	0	0	0	0	0	0	0	0	0
6/10/2024 10:09	43301	WATS_T2	1	1	0	0.8	0.7	-0.1	-0.61	-0.6	1	1	0	900	900	0
6/10/2024 10:09	43304	WATS_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
6/10/2024 10:09	67505	WEWI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 10:09	40201	BEGA_T2	1	1	0	0.6	1.5	0.9	0	0	0	0	0	0	0	0
6/10/2024 10:09	67203	TEHI_T1	0	0	0	0	0	0	1.17	1.26	4	4	0	3000	3000	0
6/10/2024 10:09	20401	ASHF_T2	1	2	1	0.2	0.35	0.15	-0.11	-0.1	0	0	0	0	0	0
6/10/2024 10:09	67501	WEWI_T1	4	8	4	0.6	0.56	-0.04	-0.84	-0.83	1	1	0	600	600	0
6/10/2024 10:09	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 10:09	20403	ASHF_T2	0	0	0	0	0	0	1.45	1.52	0	0	0	0	0	0
6/10/2024 10:09	67401	WAKE_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
6/10/2024 10:10	67505	WEWI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 10:10	67502	WEWI_T2	19	118	99	0.27	0.24	-0.03	-1.04	-1.02	1	1	0	900	900	0
6/10/2024 10:10	67501	WEWI_T1	4	8	4	0.6	0.56	-0.04	0	0	0	0	0	0	0	0
6/10/2024 10:10	67503	WEWI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 10:10	53501	EVIL_T2	1	4	3	1.2	1	-0.2	0.07	0.17	3	3	0	1400	1400	0
6/10/2024 10:11	56501	ROCK_T2	4	4	0	0.33	0.38	0.05	0.12	0.14	0	0	0	0	0	0
6/10/2024 10:11	20403	ASHF_T2	0	0	0	0	0	0	1.45	1.52	0	0	0	0	0	0
6/10/2024 10:11	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 10:11	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 10:11	56504	ROCK_T2	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
6/10/2024 10:11	41801	GOCI_T2	0	7	7	0	0.27	0.27	0	0	0	0	0	0	0	0
6/10/2024 10:11	53501	EVIL_T2	1	4	3	1.2	1	-0.2	0.07	0.17	3	3	0	1400	1400	0
6/10/2024 10:11	20601	GRWO_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
6/10/2024 10:11	20401	ASHF_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
6/10/2024 10:12	65003	NEFF_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/10/2024 10:12	41801	GOCI_T2	0	7	7	0	0.27	0.27	0	0	0	0	0	0	0	0
6/10/2024 10:12	40601	PIGR_T1	2	5	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/10/2024 10:12	53501	EVIL_T2	1	4	3	1.2	1	-0.2	0.07	0.17	3	3	0	1400	1400	0
6/10/2024 10:12	65001	NEFF_T2	0	0	0	0	0	0	-0.21	-0.05	1	1	0	1200	1200	0
6/10/2024 10:12	40602	PIGR_T1	1	1	0	0.3	0.2	-0.1	0	0	1	1	0	600	600	0
6/10/2024 10:13	40602	PIGR_T1	1	1	0	0.3	0.2	-0.1	0	0	2	2	0	1200	1200	0
6/10/2024 10:13	40601	PIGR_T1	2	5	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/10/2024 10:13	63401	HONY_T1	0	0	0	0	0	0	1.25	1.23	0	0	0	0	0	0
6/10/2024 10:14	40602	PIGR_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/10/2024 10:14	63501	HEID_TBK1-2	1	2	1	0.8	0.5	-0.3	0.41	0.41	1	1	0	900	900	0
6/10/2024 10:14	40601	PIGR_T1	2	5	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/10/2024 10:15	40101	HUNT_T2	0	1	1	0	0	0	-0.23	-0.18	0	0	0	0	0	0
6/10/2024 10:15	63401	HONY_T1	0	0	0	0	0	0	2.51	2.47	0	0	0	0	0	0
6/10/2024 10:15	63601	LETO_T1	4	6	2	0.33	0.3	-0.03	1.02	1.03	1	1	0	900	900	0
6/10/2024 10:15	63602	LETO_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/10/2024 10:16	42903	MIDD_T2	2	2	0	0.8	1.25	0.45	0	0	0	0	0	0	0	0
6/10/2024 10:16	40602	PIGR_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/10/2024 10:16	55002	NEWP_T1	10	11	1	0.84	0.75	-0.09	-0.17	-0.17	0	0	0	0	0	0
6/10/2024 10:16	42902	MIDD_T2	3	6	3	0.6	0.68	0.08	-0.2	-0.24	1	1	0	600	600	0
6/10/2024 10:16	55001	NEWP_T1	1	2	1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/10/2024 10:16	40601	PIGR_T1	5	2	-3	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
6/10/2024 10:17	63601	LETO_T1	4	6	2	0.33	0.3	-0.03	1.02	1.03	1	1	0	900	900	0
6/10/2024 10:17	60501	NMAN_T2	3	5	2	4.57	3.14	-1.43	0	0	0	0	0	0	0	0
6/10/2024 10:17	40602	PIGR_T1	1	1	0	0.2	0.3	0.1	0	0	1	1	0	600	600	0
6/10/2024 10:17	55001	NEWP_T1	1	2	1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/10/2024 10:17	63602	LETO_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/10/2024 10:17	40601	PIGR_T1	5	2	-3	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
6/10/2024 10:17	60502	NMAN_T2	0	0	0	0	0	0	0.04	0.09	0	0	0	0	0	0
6/10/2024 10:17	52502	PROG_T2	4	5	1	0.45	0.3	-0.15	-0.5	-0.48	1	1	0	900	900	0
6/10/2024 10:17	60504	NMAN_T2	3	3	0	0.73	1	0.27	0	0	0	0	0	0	0	0
6/10/2024 10:17	55002	NEWP_T1	10	11	1	0.84	0.75	-0.09	-0.17	-0.17	0	0	0	0	0	0
6/10/2024 10:18	56501	ROCK_T2	4	4	0	0.38	0.23	-0.15	0.12	0.14	0	0	0	0	0	0
6/10/2024 10:18	42903	MIDD_T2	2	2	0	0.8	1.25	0.45	0	0	0	0	0	0	0	0
6/10/2024 10:18	52502	PROG_T2	4	5	1	0.45	0.3	-0.15	-0.5	-0.48	1	1	0	900	900	0
6/10/2024 10:18	42902	MIDD_T2	3	6	3	0.6	0.68	0.08	-0.2	-0.24	1	1	0	600	600	0
6/10/2024 10:18	65503	MOJO_T2	0	2	2	0	0.65	0.65	-1.65	-1.57	2	2	0	1800	1800	0
6/10/2024 10:18	56504	ROCK_T2	2	1	-1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/10/2024 10:18	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/10/2024 10:19	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/10/2024 10:19	55002	NEWP_T1	10	11	1	0.84	0.75	-0.09	-0.34	-0.34	0	0	0	0	0	0
6/10/2024 10:19	13303	ORVI_T1	0	6	6	0	0.42	0.42	0.01	-0.01	0	0	0	0	0	0
6/10/2024 10:19	56501	ROCK_T2	4	4	0	0.38	0.23	-0.15	0.25	0.27	0	0	0	0	0	0
6/10/2024 10:19	56504	ROCK_T2	2	1	-1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/10/2024 10:19	55001	NEWP_T1	1	2	1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/10/2024 10:20	66502	SMAN_T2	1	2	1	0.6	0.55	-0.05	0.48	0.56	0	0	0	0	0	0
6/10/2024 10:20	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/10/2024 10:20	56501	ROCK_T2	4	4	0	0.38	0.23	-0.15	0.25	0.27	0	0	0	0	0	0
6/10/2024 10:20	14402	SSLA_T1	3	3	0	0.27	0.3	0.03	0	0	0	0	0	0	0	0
6/10/2024 10:20	14403	SSLA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/10/2024 10:20	56504	ROCK_T2	2	1	-1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/10/2024 10:20	14404	SSLA_T1	1	1	0	5.8	5.9	0.1	0.02	0.03	0	0	0	0	0	0
6/10/2024 10:21	56501	ROCK_T2	4	4	0	0.38	0.23	-0.15	0.12	0.14	0	0	0	0	0	0
6/10/2024 10:21	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/10/2024 10:21	56504	ROCK_T2	2	1	-1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/10/2024 10:21	15702	TANN_T2	3	8	5	0.37	0.51	0.14	-0.38	-0.34	0	0	0	0	0	0
6/10/2024 10:21	13701	SCHN_T2	1	0	-1	0.2	0	-0.2	0.14	0.16	1	1	0	600	600	0
6/10/2024 10:21	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
6/10/2024 10:21	13704	SCHN_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/10/2024 10:22	52502	PROG_T2	4	5	1	0.45	0.3	-0.15	-0.96	-0.92	2	2	0	1800	1800	0
6/10/2024 10:22	66502	SMAN_T2	1	2	1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
6/10/2024 10:22	66503	SMAN_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
6/10/2024 10:23	67603	WARW_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
6/10/2024 10:23	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 10:23	14402	SSLA_T1	3	3	0	0.27	0.3	0.03	0	0	0	0	0	0	0	0
6/10/2024 10:23	14403	SSLA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/10/2024 10:23	67605	WARW_T1	8	2	-6	0.49	1	0.51	0	0	0	0	0	0	0	0
6/10/2024 10:23	67103	SPRI_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
6/10/2024 10:23	56501	ROCK_T2	4	4	0	0.38	0.23	-0.15	0.14	0.15	0	0	0	0	0	0
6/10/2024 10:23	66502	SMAN_T2	1	2	1	0.6	0.55	-0.05	0.56	0.41	0	0	0	0	0	0
6/10/2024 10:23	59101	WALK_T2	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
6/10/2024 10:23	56504	ROCK_T2	2	1	-1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/10/2024 10:23	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/10/2024 10:23	14404	SSLA_T1	1	1	0	5.8	5.9	0.1	0.03	0.03	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/10/2024 10:24	15001	BLMO_T1	2	2	0	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
6/10/2024 10:24	56802	BENV_T2	2	4	2	0.4	0.35	-0.05	-1.68	-1.64	0	0	0	0	0	0
6/10/2024 10:24	67605	WARW_T1	8	2	-6	0.49	1	0.51	-0.87	-0.86	0	0	0	0	0	0
6/10/2024 10:25	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 10:25	67605	WARW_T1	8	2	-6	0.49	1	0.51	-2.6	-2.57	0	0	0	0	0	0
6/10/2024 10:25	59101	WALK_T2	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
6/10/2024 10:25	58001	WCAR_T1	4	6	2	0.85	1	0.15	0	0	0	0	0	0	0	0
6/10/2024 10:25	58003	WCAR_T1	1	16	15	1.5	0.34	-1.16	0.96	0.97	0	0	0	0	0	0
6/10/2024 10:25	10801	CHHI_T1	0	5	5	0	0.26	0.26	-0.69	-1.17	2	2	0	1800	1800	0
6/10/2024 10:25	67603	WARW_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
6/10/2024 10:26	56802	BENV_T2	2	4	2	0.4	0.35	-0.05	-0.56	-0.55	0	0	0	0	0	0
6/10/2024 10:26	56801	BENV_T1	9	17	8	0.5	0.78	0.28	-0.23	-0.24	1	1	0	600	600	0
6/10/2024 10:26	15001	BLMO_T1	2	2	0	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
6/10/2024 10:26	47203	FAXO_T2	0	0	0	0	0	0	-1.33	-1.36	1	1	0	1200	1200	0
6/10/2024 10:26	45501	DERR_T2	1	1	0	0.1	0.2	0.1	0.75	0.72	2	2	0	1800	1800	0
6/10/2024 10:26	56803	BENV_T1	3	5	2	1.03	0.43	-0.6	0	0	0	0	0	0	0	0
6/10/2024 10:27	56802	BENV_T2	2	4	2	0.4	0.35	-0.05	-0.56	-0.55	0	0	0	0	0	0
6/10/2024 10:27	17802	GILB_T1	2	3	1	0.7	0.87	0.17	0.19	0.2	0	0	0	0	0	0
6/10/2024 10:27	45501	DERR_T2	1	1	0	0.1	0.2	0.1	0.75	0.72	2	2	0	1800	1800	0
6/10/2024 10:28	46803	HEPB_T2	1	4	3	0.9	0.38	-0.52	0	0	0	0	0	0	0	0
6/10/2024 10:28	17804	GILB_T2	3	5	2	0.47	0.38	-0.09	-0.54	-0.53	0	0	0	0	0	0
6/10/2024 10:28	17803	GILB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 10:28	45501	DERR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/10/2024 10:28	45502	DERR_T2	0	0	0	0	0	0	0.29	0.21	1	1	0	300	300	0
6/10/2024 10:28	17805	GILB_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/10/2024 10:28	46801	HEPB_T2	2	2	0	0.95	1.1	0.15	0.79	0.78	0	0	0	0	0	0
6/10/2024 10:29	17802	GILB_T1	2	3	1	0.7	0.87	0.17	0.19	0.2	0	0	0	0	0	0
6/10/2024 10:29	45501	DERR_T2	1	1	0	0.1	0.2	0.1	0.75	0.72	2	2	0	1800	1800	0
6/10/2024 10:29	46803	HEPB_T2	1	4	3	0.9	0.38	-0.52	0.33	0.33	0	0	0	0	0	0
6/10/2024 10:29	46801	HEPB_T2	2	2	0	0.95	1.1	0.15	0.79	0.78	0	0	0	0	0	0
6/10/2024 10:30	47802	MOCA_T2	0	1	1	0	0.4	0.4	-0.83	-0.83	0	0	0	0	0	0
6/10/2024 10:32	12701	MACU_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
6/10/2024 10:32	58401	MORO_T1	0	0	0	0	0	0	-0.74	-0.7	1	1	0	600	600	0
6/10/2024 10:33	13301	ORVI_T1	0	0	0	0	0	0	-0.31	0.52	1	0	-1	600	0	-600
6/10/2024 10:33	60602	NCOL_T2	0	6	6	0	0.17	0.17	0	0	0	0	0	0	0	0
6/10/2024 10:33	64101	REFR_T1	0	2	2	0	0.45	0.45	0.4	0.43	0	0	0	0	0	0
6/10/2024 10:33	12701	MACU_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
6/10/2024 10:33	60604	NCOL_T2	0	56	56	0	0.19	0.19	0	0	0	0	0	0	0	0
6/10/2024 10:33	60605	NCOL_T2	0	165	165	0	0.32	0.32	-0.26	-0.27	0	0	0	0	0	0
6/10/2024 10:33	13303	ORVI_T1	0	6	6	0	0	0.5	0	0	0	0	0	0	0	0
6/10/2024 10:33	65601	QVIL_T2	0	0	0	0	0	0	-0.79	-0.7	1	1	0	900	900	0
6/10/2024 10:34	54506	ENOL_T2	0	0	0	0	0	0	0.48	0.53	1	1	0	600	600	0
6/10/2024 10:34	42903	MIDD_T2	2	2	0	0.8	1.25	0.45	0	0	0	0	0	0	0	0
6/10/2024 10:34	54503	ENOL_T2	0	0	0	0	0	0	-1.11	-1.06	1	1	0	600	600	0
6/10/2024 10:34	67201	TEHI_T1	1	5	4	0.3	0	-0.3	0.68	0.88	2	2	0	1500	1500	0
6/10/2024 10:34	58401	MORO_T1	0	0	0	0	0	0	-0.74	-0.7	1	1	0	600	600	0
6/10/2024 10:34	54505	ENOL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/10/2024 10:34	25502	MADI_T1	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
6/10/2024 10:34	25501	MADI_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/10/2024 10:34	65604	QVIL_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
6/10/2024 10:34	25503	MADI_T1	102	42	-60	0.3	0.16	-0.14	-0.9	-0.91	0	0	0	0	0	0
6/10/2024 10:34	42902	MIDD_T2	4	10	6	0.55	0.71	0.16	-0.24	-0.24	1	1	0	600	600	0
6/10/2024 10:34	54504	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/10/2024 10:34	64101	REFR_T1	0	2	2	0	0.45	0.45	0.2	0.21	0	0	0	0	0	0
6/10/2024 10:35	65901	SAKR_T2	1	1	0	8	7.6	-0.4	-1.39	-0.98	2	2	0	1500	1500	0
6/10/2024 10:36	59201	THOM_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/10/2024 10:36	59202	THOM_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/10/2024 10:37	60801	BUCK_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
6/10/2024 10:37	15703	TANN_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
6/10/2024 10:37	44301	BEAV_T2	1	2	1	0.9	0.15	-0.75	0.82	0.97	2	2	0	1500	1500	0
6/10/2024 10:37	15702	TANN_T2	3	8	5	0.3	0.53	0.23	-0.54	-0.69	0	0	0	0	0	0
6/10/2024 10:38	58003	WCAR_T1	4	16	12	0.48	0.34	-0.14	0.97	0.97	0	0	0	0	0	0
6/10/2024 10:38	58002	WCAR_T2	2	3	1	0.2	0.37	0.17	0	0	0	0	0	0	0	0
6/10/2024 10:38	58001	WCAR_T1	5	6	1	0.9	1	0.1	0	0	0	0	0	0	0	0
6/10/2024 10:38	43402	BENT_T1	0	7	7	0	0.39	0.39	-1.28	-0.76	2	1	-1	1500	900	-600
6/10/2024 10:38	58006	WCAR_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
6/10/2024 10:38	16504	STRO_T1	0	0	0	0	0	0	0.4	0.42	1	1	0	1200	1200	0
6/10/2024 10:39	14802	TREI_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/10/2024 10:39	59101	WALK_T2	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
6/10/2024 10:39	56803	BENV_T1	5	4	-1	0.62	0.68	0.06	0	0	0	0	0	0	0	0
6/10/2024 10:39	10102	ALLE_T2	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
6/10/2024 10:39	56802	BENV_T2	3	7	4	0.33	0.36	0.03	-0.55	-0.54	0	0	0	0	0	0
6/10/2024 10:39	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 10:39	14801	TREI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/10/2024 10:39	16301	ALPA_T1	1	0	-1	0.8	0	-0.8	-0.1	-0.1	0	0	0	0	0	0
6/10/2024 10:39	56801	BENV_T1	9	19	10	0.67	0.92	0.25	-0.24	-0.25	1	1	0	600	600	0
6/10/2024 10:39	59102	WALK_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/10/2024 10:40	43402	BENT_T1	0	7	7	0	0.39	0.39	-2.56	-1.52	4	2	-2	3000	1800	-1200
6/10/2024 10:40	66903	SHIL_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
6/10/2024 10:40	56802	BENV_T2	3	7	4	0.33	0.36	0.03	-0.55	-0.54	0	0	0	0	0	0
6/10/2024 10:40	66901	SHIL_T2	0	1	1	0	0.1	0.1	0.1	0.11	0	0	0	0	0	0
6/10/2024 10:40	66902	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 10:41	11507	FREE_T2	0	1	1	0	0	0	1.29	1.3	0	0	0	0	0	0
6/10/2024 10:42	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 10:42	63802	HEMP_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
6/10/2024 10:42	52402	GRPA_T2	1	5	4	0.5	0.26	-0.24	0	0	0	0	0	0	0	0
6/10/2024 10:42	24105	EHAZ_T1	4	4	0	6.38	6.43	0.05	0	0	0	0	0	0	0	0
6/10/2024 10:42	24104	EHAZ_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	1200	1200	0
6/10/2024 10:42	24101	EHAZ_T1	31	19	-12	0.37	0.28	-0.09	0	0	0	0	0	0	0	0
6/10/2024 10:42	52403	GRPA_T2	5	4	-1	0.36	0.48	0.12	0.21	0.22	0	0	0	0	0	0
6/10/2024 10:42	24102	EHAZ_T1	1	2	1	2.2	2.7	0.5	0	0	0	0	0	0	0	0
6/10/2024 10:42	45902	AUBU_T1	0	0	0	0	0	0	-0.39	-0.39	1	1	0	600	600	0
6/10/2024 10:42	63804	HEMP_T1	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
6/10/2024 10:43	45902	AUBU_T1	0	0	0	0	0	0	-0.39	-0.39	1	1	0	600	600	0
6/10/2024 10:44	44502	HAMI_T2	1	1	0	1.3	2.5	1.2	-0.76	-0.75	0	0	0	0	0	0
6/10/2024 10:44	52403	GRPA_T2	5	4	-1	0.36	0.48	0.12	0.21	0.22	0	0	0	0	0	0
6/10/2024 10:44	52402	GRPA_T2	1	5	4	0.5	0.26	-0.24	0	0	0	0	0	0	0	0
6/10/2024 10:45	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 10:45	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 10:45	56802	BENV_T2	4	7	3	0.35	0.54	0.19	-0.55	-0.54	0	0	0	0	0	0
6/10/2024 10:45	45003	LIME_2	2	2	0	1.8	2.2	0.4	0.34	0.33	0	0	0	0	0	0
6/10/2024 10:45	40502	CRES_T2	1	0	-1	0.1	0	-0.1	0.14	0.15	0	0	0	0	0	0
6/10/2024 10:45	52402	GRPA_T2	0	23	23	0	0.57	0.57	0	0	0	0	0	0	0	0
6/10/2024 10:45	45001	LIME_2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/10/2024 10:45	52403	GRPA_T2	3	6	3	0.3	0.45	0.15	0.43	0.44	0	0	0	0	0	0
6/10/2024 10:45	45002	LIME_2	1	1	0	3.7	4.9	1.2	0	0	0	0	0	0	0	0
6/10/2024 10:46	45902	AUBU_T1	0	0	0	0	0	0	-0.39	-0.39	1	1	0	600	600	0
6/10/2024 10:46	13503	MCMI_T2	2	2	0	0.85	0.6	-0.25	0	0	0	0	0	0	0	0
6/10/2024 10:46	52102	MEIS_T1	0	1	1	0	0.5	0.5	0	0	1	1	0	450	450	0
6/10/2024 10:47	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 10:47	52102	MEIS_T1	0	1	1	0	0.5	0.5	0	0	1	1	0	450	450	0
6/10/2024 10:47	40101	HUNT_T2	0	1	1	0	0.1	0.1	-0.06	-0.04	0	0	0	0	0	0
6/10/2024 10:47	40502	CRES_T2	1	0	-1	0.1	0	-0.1	0.14	0.15	0	0	0	0	0	0
6/10/2024 10:47	58101	NEKI_T1	6	5	-1	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
6/10/2024 10:47	58102	NEKI_T1	3	3	0	1.07	0.8	-0.27	-1.25	-1.18	2	2	0	2400	2400	0
6/10/2024 10:48	45001	LIME_2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/10/2024 10:48	45002	LIME_2	1	1	0	3.7	4.9	1.2	0	0	0	0	0	0	0	0
6/10/2024 10:48	45003	LIME_2	2	2	0	1.8	2.2	0.4	0.34	0.33	0	0	0	0	0	0
6/10/2024 10:49	42902	MIDD_T2	6	10	4	0.68	0.7	0.02	-0.24	-0.19	1	1	0	600	600	0
6/10/2024 10:49	14401	SSLA_T1	0	1	1	0	0.2	0.2	-0.18	-0.33	0	0	0	0	0	0
6/10/2024 10:49	14402	SSLA_T1	3	5	2	0.3	0.52	0.22	0	0	0	0	0	0	0	0
6/10/2024 10:49	13502	MCMI_T1	3	5	2	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
6/10/2024 10:49	14404	SSLA_T1	1	4	3	5.9	1.58	-4.32	0	0	0	0	0	0	0	0
6/10/2024 10:49	14403	SSLA_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/10/2024 10:49	42903	MIDD_T2	2	2	0	1.25	1	-0.25	0	0	0	0	0	0	0	0
6/10/2024 10:50	54504	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
6/10/2024 10:50	54505	ENOL_T2	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
6/10/2024 10:50	54501	ENOL_T2	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
6/10/2024 10:50	66701	STRA_T1	2	2	0	0.95	0.45	-0.5	0	0	0	0	0	0	0	0
6/10/2024 10:50	66703	STRA_T1	0	0	0	0	0	0	0.13	0.17	0	0	0	0	0	0
6/10/2024 10:51	67303	WYOM_T2	0	1	1	0	0.3	0.3	-0.97	-0.95	0	0	0	0	0	0
6/10/2024 10:52	67605	WARW_T1	2	3	1	0.65	0.93	0.28	-0.84	-0.83	0	0	0	0	0	0
6/10/2024 10:53	14603	SWHI_T1	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
6/10/2024 10:53	16103	BING_T2	0	0	0	0	0	0	-0.8	-0.78	2	2	0	1500	1500	0
6/10/2024 10:54	10805	CHHI_T2	2	8	6	4.8	9.2	4.4	-0.37	-0.37	1	1	0	600	600	0
6/10/2024 10:54	44301	BEAV_T2	2	1	-1	0.45	0.2	-0.25	0.97	0.82	2	2	0	1500	1500	0
6/10/2024 10:55	43201	MVIL_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
6/10/2024 10:55	16102	BING_T2	0	0	0	0	0	0	1.26	1.19	0	0	0	0	0	0
6/10/2024 10:55	46004	BERW_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
6/10/2024 10:55	53501	EVIL_T2	2	3	1	1.15	0.73	-0.42	-0.08	-0.17	3	3	0	1400	1400	0
6/10/2024 10:55	10801	CHHI_T1	3	5	2	0.37	0.28	-0.09	-0.98	-1.2	2	2	0	1800	1800	0
6/10/2024 10:55	40201	BEGA_T2	1	1	0	0.3	1.6	1.3	0	0	0	0	0	0	0	0
6/10/2024 10:55	67303	WYOM_T2	0	1	1	0	0.3	0.3	-0.97	-0.95	0	0	0	0	0	0
6/10/2024 10:56	46005	BERW_T1	0	2	2	0	0.3	0.3	-1.73	-1.72	2	2	0	2100	2100	0
6/10/2024 10:56	53501	EVIL_T2	2	3	1	1.15	0.73	-0.42	-0.08	-0.17	3	3	0	1400	1400	0
6/10/2024 10:57	53501	EVIL_T2	2	3	1	1.15	0.73	-0.42	-0.17	-0.34	6	6	0	2800	2800	0
6/10/2024 10:58	53902	HALI_T2	3	3	0	2.33	2.43	0.1	-0.1	-0.09	0	0	0	0	0	0
6/10/2024 10:58	53903	HALI_T2	10	5	-5	0.78	0.8	0.02	0	0	0	0	0	0	0	0
6/10/2024 10:58	53901	HALI_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/10/2024 10:59	12807	MICK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 10:59	12801	MICK_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
6/10/2024 10:59	67601	WARW_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
6/10/2024 11:00	13502	MCMI_T1	5	4	-1	0.28	0.38	0.1	0	0	0	0	0	0	0	0
6/10/2024 11:00	13501	MCMI_T1	0	1	1	0	0.2	0.2	0.13	0.13	0	0	0	0	0	0
6/10/2024 11:02	13502	MCMI_T1	5	4	-1	0.28	0.38	0.1	0	0	0	0	0	0	0	0
6/10/2024 11:02	13501	MCMI_T1	0	1	1	0	0.2	0.2	0.13	0.13	0	0	0	0	0	0
6/10/2024 11:04	64101	REFR_T1	2	2	0	0.45	0.4	-0.05	0.01	0.02	0	0	0	0	0	0
6/10/2024 11:06	49803	UNIV_T1	0	0	0	0	0	0	-0.76	-0.83	0	0	0	0	0	0
6/10/2024 11:07	67402	WAKE_T2	0	0	0	0	0	0	0.63	0.64	1	1	0	600	600	0
6/10/2024 11:07	60803	BUCK_T1	0	0	0	0	0	0	-0.44	-0.43	1	1	0	600	600	0
6/10/2024 11:07	67401	WAKE_T2	2	3	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/10/2024 11:08	60101	COCA_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/10/2024 11:08	57403	SPAN_T1	2	2	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/10/2024 11:08	57401	SPAN_T1	2	3	1	0.7	0.4	-0.3	-0.86	-0.83	1	1	0	600	600	0
6/10/2024 11:08	60102	COCA_T1	0	0	0	0	0	0	0.03	0.44	3	3	0	2100	2100	0
6/10/2024 11:09	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/10/2024 11:09	45501	DERR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/10/2024 11:09	53601	DALM_T2	1	1	0	0.8	1.2	0.4	-0.04	-0.07	1	1	0	900	900	0
6/10/2024 11:09	45502	DERR_T2	0	0	0	0	0	0	0.15	0.12	1	1	0	300	300	0
6/10/2024 11:10	55105	WERT_T1	0	0	0	0	0	0	-0.24	-0.18	1	1	0	900	900	0
6/10/2024 11:10	61801	EELI_T2	0	4	4	0	0.33	0.33	-0.16	-1.09	0	2	2	0	1200	1200
6/10/2024 11:10	67502	WEWI_T2	13	20	7	0.42	0.41	-0.01	-1.03	-1.03	1	1	0	900	900	0
6/10/2024 11:10	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/10/2024 11:10	43301	WATS_T2	1	2	1	0.5	0.35	-0.15	-0.59	-0.58	1	1	0	900	900	0
6/10/2024 11:10	67503	WEWI_T2	1	1	0	0.2	0.3	0.1	0.05	0.03	0	0	0	0	0	0
6/10/2024 11:11	56803	BENV_T1	4	6	2	0.68	0.73	0.05	0	0	0	0	0	0	0	0
6/10/2024 11:11	67502	WEWI_T2	13	20	7	0.42	0.41	-0.01	-1.03	-1.03	1	1	0	900	900	0
6/10/2024 11:11	56802	BENV_T2	7	9	2	0.36	0.63	0.27	-0.53	-0.51	0	0	0	0	0	0
6/10/2024 11:11	67503	WEWI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/10/2024 11:11	60803	BUCK_T1	0	0	0	0	0	0	-0.88	-0.87	2	2	0	1200	1200	0
6/10/2024 11:11	56801	BENV_T1	17	22	5	0.88	0.99	0.11	-0.06	0.05	2	2	0	1200	1200	0
6/10/2024 11:12	56803	BENV_T1	4	6	2	0.68	0.73	0.05	0	0	0	0	0	0	0	0
6/10/2024 11:12	67502	WEWI_T2	13	20	7	0.42	0.41	-0.01	0	0	0	0	0	0	0	0
6/10/2024 11:12	42102	FRAI_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/10/2024 11:12	56801	BENV_T1	17	22	5	0.88	0.99	0.11	-0.11	0.1	4	4	0	2400	2400	0
6/10/2024 11:12	67502	WEWI_T2	1	1	0	0.2	0.3	0.1	0.05	0.03	0	0	0	0	0	0
6/10/2024 11:12	60803	BUCK_T1	0	0	0	0	0	0	-0.44	-0.43	1	1	0	600	600	0
6/10/2024 11:13	24801	VALM_T1	0	1	1	0	0.6	0.6	-0.42	-0.45	0	0	0	0	0	0
6/10/2024 11:13	56801	BENV_T1	17	22	5	0.88	0.99	0.11	-0.06	0.05	2	2	0	1200	1200	0
6/10/2024 11:13	28403	HART_T2	0	0	0	0	0	0	-0.73	-0.73	1	1	0	900	900	0
6/10/2024 11:13	56803	BENV_T1	4	6	2	0.68	0.73	0.05	0	0	0	0	0	0	0	0
6/10/2024 11:14	56801	BENV_T1	17	22	5	0.88	0.99	0.11	-0.08	0.07	3	3	0	1800	1800	0
6/10/2024 11:14	56803	BENV_T1	4	6	2	0.68	0.73	0.05	0	0	0	0	0	0	0	0
6/10/2024 11:15	42901	MIDD_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/10/2024 11:15	47802	MOCA_T2	1	1	0	0.5	0.6	0.1	-0.85	-0.87	0	0	0	0	0	0
6/10/2024 11:15	53901	HALI_T2	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
6/10/2024 11:15	67503	WEWI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/10/2024 11:15	45003	LIME_2	2	2	0	1.95	2.05	0.1	0.32	0.32	0	0	0	0	0	0
6/10/2024 11:15	42902	MIDD_T2	9	10	1	0.6	0.51	-0.09	0	0	0	0	0	0	0	0
6/10/2024 11:15	45002	LIME_2	1	1	0	4.9	6	1.1	0	0	0	0	0	0	0	0
6/10/2024 11:15	53902	HALI_T2	2	2	0	3	3.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 11:15	42903	MIDD_T2	2	2	0	0.85	1.6	0.75	0.56	0.52	1	1	0	1200	1200	0
6/10/2024 11:15	67502	WEWI_T2	10	20	10	0.49	0.43	-0.06	-1.03	-1.03	1	1	0	900	900	0
6/10/2024 11:15	53903	HALI_T2	4	13	9	0.8	0.82	0.02	-0.12	-0.12	0	0	0	0	0	0
6/10/2024 11:15	67002	STHI_T2	2	2	0	0.25	0.35	0.1	0.74	0.77	0	0	0	0	0	0
6/10/2024 11:15	45902	AUBU_T1	0	0	0	0	0	0	-0.8	-0.77	2	2	0	1200	1200	0
6/10/2024 11:15	45001	LIME_2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/10/2024 11:16	64701	LITI_T1	0	0	0	0	0	0	0.55	0.66	0	0	0	0	0	0
6/10/2024 11:16	58401	MORO_T1	0	1	1	0	0.2	0.2	-0.58	-0.58	1	1	0	600	600	0
6/10/2024 11:16	47802	MOCA_T2	1	1	0	0.5	0.6	0.1	-0.85	-0.87	0	0	0	0	0	0
6/10/2024 11:17	13502	MCMI_T1	3	4	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
6/10/2024 11:17	64904	MILL_T1	0	1	1	0	0.3	0.3	0.18	-0.22	0	0	0	0	0	0
6/10/2024 11:17	13501	MCMI_T1	0	1	1	0	0.2	0.2	0.13	0.14	0	0	0	0	0	0
6/10/2024 11:18	13502	MCMI_T1	3	4	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
6/10/2024 11:18	47802	MOCA_T2	1	1	0	0.5	0.6	0.1	-0.85	-0.87	0	0	0	0	0	0
6/10/2024 11:18	13501	MCMI_T1	0	1	1	0	0.2	0.2	0.13	0.14	0	0	0	0	0	0
6/10/2024 11:18	45902	AUBU_T1	0	0	0	0	0	0	-0.4	-0.39	1	1	0	600	600	0
6/10/2024 11:20	58401	MORO_T1	0	1	1	0	0.2	0.2	-0.58	-0.58	1	1	0	600	600	0
6/10/2024 11:20	64101	REFR_T1	2	2	0	0.35	0.4	0.05	0.03	0.05	0	0	0	0	0	0
6/10/2024 11:21	54504	ENOL_T2	1	1	0	0.4	0.5	0.1	-1.77	-1.75	1	1	0	600	600	0
6/10/2024 11:21	64101	REFR_T1	2	2	0	0.35	0.4	0.05	0.07	0.09	0	0	0	0	0	0
6/10/2024 11:22	24603	VARD_T2	19	21	2	0.61	0.48	-0.13	0	0	0	0	0	0	0	0
6/10/2024 11:22	64101	REFR_T1	2	2	0	0.35	0.4	0.05	0.05	0.06	0	0	0	0	0	0
6/10/2024 11:22	24602	VARD_T2	250	262	12	0.27	0.3	0.03	-0.47	-0.61	0	0	0	0	0	0
6/10/2024 11:22	67805	WLAN_T1	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
6/10/2024 11:22	67804	WLAN_T1	1	5	4	0.2	0.22	0.02	0	0	0	0	0	0	0	0
6/10/2024 11:22	67803	WLAN_T1	1	4	3	0.4	0.33	-0.07	-0.69	-0.68	0	0	0	0	0	0
6/10/2024 11:23	57403	SPAN_T1	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/10/2024 11:23	57401	SPAN_T1	3	2	-1	0.67	0.3	-0.37	-0.83	-0.8	1	1	0	600	600	0
6/10/2024 11:24	64101	REFR_T1	2	2	0	0.35	0.4	0.05	0.02	0.03	0	0	0	0	0	0
6/10/2024 11:24	21203	ECAR_T1	1	3	2	0.2	0.6	0.4	0.76	0.78	0	0	0	0	0	0
6/10/2024 11:24	60101	COCA_T1	1	2	1	0.3	0.15	-0.15	0.88	0.95	0	0	0	0	0	0
6/10/2024 11:25	55101	WERT_T1	0	0	0	0	0	0	-2.67	-2.76	6	6	0	4800	4800	0
6/10/2024 11:25	27502	WEIS_T2	0	0	0	0	0	0	0.19	0.24	0	0	0	0	0	0
6/10/2024 11:25	27503	WEIS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 11:26	24702	FLND_T2	0	3	3	0	0.63	0.63	0.28	0.25	1	1	0	1200	1200	0
6/10/2024 11:26	24103	EHAZ_T1	0	0	0	0	0	0	-0.27	-0.42	0	0	0	0	0	0
6/10/2024 11:26	24105	EHAZ_T1	4	4	0	6.58	6.48	-0.1	0	0	0	0	0	0	0	0
6/10/2024 11:26	24104	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 11:26	24102	EHAZ_T1	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
6/10/2024 11:27	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
6/10/2024 11:27	61306	EARL_T1	0	0	0	0	0	0	-1.23	-1.23	0	0	0	0	0	0
6/10/2024 11:27	44505	HAMI_T2	0	0	0	0	0	0	0.88	0.89	0	0	0	0	0	0
6/10/2024 11:28	61803	EELI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/10/2024 11:28	61801	EELI_T2	0	5	5	0	0.38	0.38	-0.54	-0.53	1	1	0	600	600	0
6/10/2024 11:29	45002	LIME_2	1	1	0	4.9	6	1.1	0.6	0.61	0	0	0	0	0	0
6/10/2024 11:29	45003	LIME_2	2	2	0	1.95	2.05	0.1	0	0	0	0	0	0	0	0
6/10/2024 11:29	12703	MACU_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
6/10/2024 11:29	45001	LIME_2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/10/2024 11:30	16401	MOPO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 11:30	63501	HEID_TBK1-2	1	2	1	0.7	0.4	-0.3	0.9	0.88	2	2	0	1800	1800	0
6/10/2024 11:30	45801	HEGI_T1	0	0	0	0	0	0	0.1	0.09	1	1	0	900	900	0
6/10/2024 11:30	41801	GOCI_T2	24	10	-14	0.22	0.19	-0.03	0	0	0	0	0	0	0	0
6/10/2024 11:30	16406	MOPO_T1	0	0	0	0	0	0	0.44	0.44	1	1	0	1200	1200	0
6/10/2024 11:31	57003	WHHI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/10/2024 11:31	58401	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 11:31	52004	LING_T2	0	2	2	0	0.75	0.75	0.45	0.45	0	0	0	0	0	0
6/10/2024 11:31	57002	WHHI_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
6/10/2024 11:31	57006	WHHI_T2	1	3	2	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
6/10/2024 11:31	58402	MORO_T1	0	0	0	0	0	0	-0.81	-0.78	3	3	0	2400	2400	0
6/10/2024 11:33	13302	ORVI_T2	3	1	-2	0.97	0.5	-0.47	1.51	1.56	0	0	0	0	0	0
6/10/2024 11:34	13302	ORVI_T2	3	1	-2	0.97	0.5	-0.47	1.51	1.56	0	0	0	0	0	0
6/10/2024 11:35	57403	SPAN_T1	0	3	3	0	0.37	0.37	0.23	0.25	0	0	0	0	0	0
6/10/2024 11:35	13704	SCHN_T2	1	1	0	0.2	0.6	0.4	-0.11	-0.18	0	0	0	0	0	0
6/10/2024 11:35	13701	SCHN_T2	1	3	2	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/10/2024 11:35	57401	SPAN_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
6/10/2024 11:36	58402	MORO_T1	0	0	0	0	0	0	-0.81	-0.78	3	3	0	2400	2400	0
6/10/2024 11:36	58401	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 11:36	58003	WCAR_T1	4	4	0	0.63	0.78	0.15	0.99	1	0	0	0	0	0	0
6/10/2024 11:36	58001	WCAR_T1	4	6	2	0.88	0.75	-0.13	0	0	0	0	0	0	0	0
6/10/2024 11:37	64101	REFR_T1	2	2	0	0.4	0.4	0	0.03	0.04	0	0	0	0	0	0
6/10/2024 11:37	60801	BUCK_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
6/10/2024 11:37	57401	SPAN_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
6/10/2024 11:37	67502	WEWI_T2	20	19	-1	0.41	0.46	0.05	-1.02	-1	1	1	0	900	900	0
6/10/2024 11:37	57403	SPAN_T1	0	3	3	0	0.37	0.37	0.12	0.13	0	0	0	0	0	0
6/10/2024 11:37	67503	WEWI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/10/2024 11:37	60803	BUCK_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 11:38	57403	SPAN_T1	0	3	3	0	0.37	0.37	0.12	0.13	0	0	0	0	0	0
6/10/2024 11:38	15001	BLMO_T1	2	4	2	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/10/2024 11:38	10801	CHHI_T1	4	4	0	0.4	0.7	0.3	-0.48	-0.51	1	1	0	900	900	0
6/10/2024 11:38	57401	SPAN_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
6/10/2024 11:39	60803	BUCK_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 11:39	24102	EHAZ_T1	1	1	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
6/10/2024 11:39	58003	WCAR_T1	4	4	0	0.63	0.78	0.15	1	1.01	0	0	0	0	0	0
6/10/2024 11:39	15001	BLMO_T1	2	4	2	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/10/2024 11:39	67503	WEWI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/10/2024 11:39	24105	EHAZ_T1	4	4	0	6.53	6.55	0.02	0	0	0	0	0	0	0	0
6/10/2024 11:39	60801	BUCK_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
6/10/2024 11:39	67502	WEWI_T2	20	19	-1	0.41	0.46	0.05	-1.02	-1	1	1	0	900	900	0
6/10/2024 11:39	24101	EHAZ_T1	0	20	20	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 11:39	24104	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 11:39	24103	EHAZ_T1	0	0	0	0	0	0	-0.42	-0.39	0	0	0	0	0	0
6/10/2024 11:39	67505	WEWI_T1	1	1	0	0.2	0.2	0	0.07	0.06	1	1	0	900	900	0
6/10/2024 11:39	58001	WCAR_T1	4	6	2	0.88	0.75	-0.13	0	0	0	0	0	0	0	0
6/10/2024 11:39	67501	WEWI_T1	4	4	0	0.85	0.85	0	0	0	0	0	0	0	0	0
6/10/2024 11:40	67502	WEWI_T2	20	19	-1	0.41	0.46	0.05	-2.04	-2.01	2	2	0	1800	1800	0
6/10/2024 11:40	67503	WEWI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/10/2024 11:41	61103	BERK_T5	3	1	-2	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
6/10/2024 11:41	15001	BLMO_T1	2	4	2	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/10/2024 11:41	61102	BERK_T5	1	0	-1	0.3	0	-0.3	1.06	0.99	1	1	0	300	300	0
6/10/2024 11:41	58401	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 11:41	43301	WATS_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/10/2024 11:41	67503	WEWI_T2	1	1	0	0.3	0.4	0.1	0.1	0.12	0	0	0	0	0	0
6/10/2024 11:41	61101	BERK_T5	3	2	-1	0.13	0.5	0.37	0	0	0	0	0	0	0	0
6/10/2024 11:41	58402	MORO_T1	0	0	0	0	0	0	-0.78	-0.8	3	3	0	2400	2400	0
6/10/2024 11:41	67502	WEWI_T2	20	19	-1	0.41	0.46	0.05	0	0	0	0	0	0	0	0
6/10/2024 11:41	43304	WATS_T2	0	0	0	0	0	0	-0.26	-0.31	0	0	0	0	0	0
6/10/2024 11:42	61301	EARL_T1	0	0	0	0	0	0	-1.29	-1.29	2	2	0	1800	1800	0
6/10/2024 11:43	61301	EARL_T1	0	0	0	0	0	0	-1.29	-1.29	2	2	0	1800	1800	0
6/10/2024 11:43	67502	WEWI_T2	20	19	-1	0.41	0.46	0.05	0	0	0	0	0	0	0	0
6/10/2024 11:43	67503	WEWI_T2	1	1	0	0.3	0.4	0.1	0.1	0.12	0	0	0	0	0	0
6/10/2024 11:44	63602	LETO_T1	1	1	0	0.2	0.5	0.3	-0.09	0.07	0	0	0	0	0	0
6/10/2024 11:44	23901	EFMO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 11:44	63601	LETO_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/10/2024 11:44	41502	FAIR_T2	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
6/10/2024 11:45	65501	MOJO_T1	0	0	0	0	0	0	-0.96	-0.99	1	1	0	900	900	0
6/10/2024 11:45	45702	LIND_T2	2	2	0	0.85	1.25	0.4	-0.47	-0.46	0	0	0	0	0	0
6/10/2024 11:46	65604	QVIL_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
6/10/2024 11:46	45702	LIND_T2	2	2	0	0.85	1.25	0.4	-0.47	-0.46	0	0	0	0	0	0
6/10/2024 11:46	14204	EALL_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
6/10/2024 11:48	42903	MIDD_T2	2	2	0	1.55	1.45	-0.1	0	0	0	0	0	0	0	0
6/10/2024 11:48	42901	MIDD_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/10/2024 11:48	42902	MIDD_T2	3	7	4	0.47	0.43	-0.04	-0.33	-0.31	2	2	0	1200	1200	0
6/10/2024 11:49	67001	STHI_T2	0	0	0	0	0	0	1.52	1.5	0	0	0	0	0	0
6/10/2024 11:49	42901	MIDD_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/10/2024 11:49	67002	STHI_T2	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/10/2024 11:49	42902	MIDD_T2	3	7	4	0.47	0.43	-0.04	-0.17	-0.15	1	1	0	600	600	0
6/10/2024 11:49	54601	SUMM_T2	0	0	0	0	0	0	-1.64	-1.63	2	2	0	2100	2100	0
6/10/2024 11:49	42903	MIDD_T2	2	2	0	1.55	1.45	-0.1	0	0	0	0	0	0	0	0
6/10/2024 11:49	27605	PIRI_T2	0	0	0	0	0	0	0.81	0.84	0	0	0	0	0	0
6/10/2024 11:50	14101	TRUM_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
6/10/2024 11:50	14103	TRUM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 11:51	14404	SSLA_T1	3	3	0	1.93	1.97	0.04	0	0	0	0	0	0	0	0
6/10/2024 11:51	14402	SSLA_T1	5	6	1	0.36	0.48	0.12	0	0	0	0	0	0	0	0
6/10/2024 11:51	14401	SSLA_T1	1	2	1	0.3	0.75	0.45	0	0	0	0	0	0	0	0
6/10/2024 11:51	14403	SSLA_T1	2	4	2	0.35	0.48	0.13	0.93	0.93	0	0	0	0	0	0
6/10/2024 11:52	66903	SHIL_T2	1	2	1	1.4	0.4	-1	-0.73	-0.72	0	0	0	0	0	0
6/10/2024 11:52	66902	SHIL_T2	3	2	-1	0.43	0.65	0.22	0	0	0	0	0	0	0	0
6/10/2024 11:52	66901	SHIL_T2	2	3	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
6/10/2024 11:52	43301	WATS_T2	1	1	0	0.1	0.1	0	-0.56	-0.56	1	1	0	900	900	0
6/10/2024 11:53	13701	SCHN_T2	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
6/10/2024 11:53	13704	SCHN_T2	1	1	0	0.3	0.6	0.3	0.13	0.04	0	0	0	0	0	0
6/10/2024 11:53	40201	BEGA_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/10/2024 11:53	43301	WATS_T2	1	1	0	0.1	0.1	0	-1.13	-1.11	2	2	0	1800	1800	0
6/10/2024 11:54	66902	SHIL_T2	3	2	-1	0.43	0.65	0.22	0	0	0	0	0	0	0	0
6/10/2024 11:54	66903	SHIL_T2	1	2	1	1.4	0.4	-1	-0.73	-0.72	0	0	0	0	0	0
6/10/2024 11:54	14103	TRUM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 11:54	66901	SHIL_T2	2	3	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
6/10/2024 11:54	14101	TRUM_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
6/10/2024 11:54	10102	ALLE_T2	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 11:54	10203	ALLE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 11:55	14802	TREI_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/10/2024 11:55	14801	TREI_T2	3	3	0	0.6	0.63	0.03	0	0	0	0	0	0	0	0
6/10/2024 11:55	10203	ALLE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 11:55	10102	ALLE_T2	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 11:55	10903	COOP_T2	1	1	0	0.8	0.9	0.1	0.27	0.38	1	1	0	600	600	0
6/10/2024 11:56	41801	GOCI_T2	8	4	-4	0.2	0.28	0.08	0	0	0	0	0	0	0	0
6/10/2024 11:56	41502	FAIR_T2	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
6/10/2024 11:56	10903	COOP_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
6/10/2024 11:56	10901	COOP_T2	0	0	0	0	0	0	0.02	0.03	1	1	0	1200	1200	0
6/10/2024 11:57	57003	WHHI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/10/2024 11:57	57006	WHHI_T2	1	3	2	0.5	0.57	0.07	0	0	0	0	0	0	0	0
6/10/2024 11:57	57004	WHHI_T2	0	0	0	0	0	0	-0.33	-0.25	0	0	0	0	0	0
6/10/2024 11:57	40201	BEGA_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/10/2024 12:00	64701	LITI_T1	0	0	0	0	0	0	0.63	0.46	0	0	0	0	0	0
6/10/2024 12:00	45802	HEGI_T2	18	41	23	0.42	0.8	0.38	-0.09	0.06	2	1	-1	1200	900	-300
6/10/2024 12:01	45802	HEGI_T2	18	41	23	0.42	0.8	0.38	-0.09	0.06	2	1	-1	1200	900	-300
6/10/2024 12:02	52004	LING_T2	2	1	-1	0.75	1.2	0.45	0.46	0.47	0	0	0	0	0	0
6/10/2024 12:02	60504	NMAN_T2	3	3	0	1.23	0.67	-0.56	0	0	0	0	0	0	0	0
6/10/2024 12:02	60501	NMAN_T2	4	5	1	3.85	3	-0.85	0	0	0	0	0	0	0	0
6/10/2024 12:02	60502	NMAN_T2	2	1	-1	0.25	0.1	-0.15	0.07	0.09	0	0	0	0	0	0
6/10/2024 12:03	42802	SELI_T1	1	1	0	0.4	0.4	0	-0.61	-0.61	1	1	0	900	900	0
6/10/2024 12:03	56503	ROCK_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/10/2024 12:03	56501	ROCK_T2	2	3	1	0.35	0.37	0.02	0.24	0.26	0	0	0	0	0	0
6/10/2024 12:03	52004	LING_T2	2	1	-1	0.75	1.2	0.45	0	0	0	0	0	0	0	0
6/10/2024 12:04	57306	MOAL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/10/2024 12:04	57302	MOAL_T2	0	0	0	0	0	0	-1.36	-1.38	1	1	0	1200	1200	0
6/10/2024 12:04	57303	MOAL_T2	1	1	0	7.2	7.3	0.1	0	0	0	0	0	0	0	0
6/10/2024 12:04	57304	MOAL_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/10/2024 12:05	13606	RICH_T2	1	1	0	7.4	7.2	-0.2	1.2	1.21	0	0	0	0	0	0
6/10/2024 12:05	57403	SPAN_T1	3	1	-2	0.37	0.7	0.33	0.13	0.14	0	0	0	0	0	0
6/10/2024 12:05	13601	RICH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 12:05	57401	SPAN_T1	0	1	1	0	0	0	-0.77	-0.74	1	1	0	600	600	0
6/10/2024 12:05	56501	ROCK_T2	2	3	1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
6/10/2024 12:05	56503	ROCK_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/10/2024 12:05	56504	ROCK_T2	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
6/10/2024 12:06	56504	ROCK_T2	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
6/10/2024 12:06	54601	SUMM_T2	0	2	2	0	0.1	0.1	-3.27	-3.26	4	4	0	4200	4200	0
6/10/2024 12:06	56501	ROCK_T2	2	3	1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
6/10/2024 12:06	56503	ROCK_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/10/2024 12:07	54601	SUMM_T2	0	2	2	0	0.1	0.1	-1.63	-1.61	2	2	0	2100	2100	0
6/10/2024 12:07	16302	ALPA_T2	0	0	0	0	0	0	1.06	1.01	0	0	0	0	0	0
6/10/2024 12:07	46005	BERW_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/10/2024 12:07	13701	SCHN_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/10/2024 12:07	13704	SCHN_T2	1	1	0	0.6	0.2	-0.4	0.04	0.06	0	0	0	0	0	0
6/10/2024 12:07	46001	BERW_T1	0	0	0	0	0	0	1.38	1.41	0	0	0	0	0	0
6/10/2024 12:08	46005	BERW_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/10/2024 12:08	46001	BERW_T1	0	0	0	0	0	0	1.38	1.41	0	0	0	0	0	0
6/10/2024 12:08	58401	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 12:08	54601	SUMM_T2	0	2	2	0	0.1	0.1	-1.63	-1.61	2	2	0	2100	2100	0
6/10/2024 12:08	58402	MORO_T1	0	0	0	0	0	0	-0.81	-0.82	3	3	0	2400	2400	0
6/10/2024 12:11	54601	SUMM_T2	0	2	2	0	0.1	0.1	-1.63	-1.61	2	2	0	2100	2100	0
6/10/2024 12:12	61801	EELI_T2	7	5	-2	0.3	0.32	0.02	-0.5	-0.48	1	1	0	600	600	0
6/10/2024 12:12	51102	CARL_T1	4	4	0	0.28	0.43	0.15	0	0	0	0	0	0	0	0
6/10/2024 12:12	16302	ALPA_T2	0	0	0	0	0	0	3.19	3.02	0	0	0	0	0	0
6/10/2024 12:12	10102	ALLE_T2	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
6/10/2024 12:12	61803	EELI_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/10/2024 12:12	46005	BERW_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/10/2024 12:12	54601	SUMM_T2	0	2	2	0	0.1	0.1	-1.63	-1.61	2	2	0	2100	2100	0
6/10/2024 12:12	46001	BERW_T1	0	0	0	0	0	0	2.76	2.81	0	0	0	0	0	0
6/10/2024 12:12	28703	HAML_T2	2	3	1	0.15	0.47	0.32	0	0	0	0	0	0	0	0
6/10/2024 12:12	28704	HAML_T2	1	1	0	0.6	0.8	0.2	-0.01	-0.01	0	0	0	0	0	0
6/10/2024 12:12	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 12:12	51101	CARL_T1	1	2	1	6.8	3.5	-3.3	-0.78	-0.75	1	1	0	600	600	0
6/10/2024 12:12	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 12:12	62105	ELAN_T1	1	1	0	0.8	0.8	0	0.61	0.62	0	0	0	0	0	0
6/10/2024 12:12	51109	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 12:12	17901	BART_T1	1	0	-1	0.6	0	-0.6	0.92	1.11	2	2	0	2400	2400	0
6/10/2024 12:12	10203	ALLE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/10/2024 12:12	28701	HAML_T2	4	3	-1	0.68	0.47	-0.21	0	0	0	0	0	0	0	0
6/10/2024 12:13	61801	EELI_T2	7	5	-2	0.3	0.32	0.02	0	0	0	0	0	0	0	0
6/10/2024 12:13	61803	EELI_T2	1	0	-1	0.7	0	-0.7	0.5	0.57	1	1	0	600	600	0
6/10/2024 12:13	51603	DUKE_T1	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
6/10/2024 12:13	62105	ELAN_T1	1	1	0	0.8	0.8	0	0.61	0.62	0	0	0	0	0	0
6/10/2024 12:14	12002	HATF_T1	0	1	1	0	0.2	0.2	-0.62	-0.55	0	0	0	0	0	0
6/10/2024 12:14	12701	MACU_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
6/10/2024 12:15	51101	CARL_T1	1	2	1	6.8	3.65	-3.15	0	0	0	0	0	0	0	0
6/10/2024 12:15	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 12:15	51102	CARL_T1	4	4	0	0.43	0.48	0.05	0	0	0	0	0	0	0	0
6/10/2024 12:15	51107	CARL_T1	0	0	0	0	0	0	0.7	0.73	0	0	0	0	0	0
6/10/2024 12:15	51109	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 12:15	12701	MACU_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
6/10/2024 12:16	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 12:16	40101	HUNT_T2	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
6/10/2024 12:17	58401	MORO_T1	0	1	1	0	0.3	0.3	-0.58	-0.57	1	1	0	600	600	0
6/10/2024 12:17	14204	EALL_T2	0	5	5	0	0.24	0.24	0	0	0	0	0	0	0	0
6/10/2024 12:17	14205	EALL_T2	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
6/10/2024 12:18	64802	MONE_T2	3	4	1	0.47	0.53	0.06	0.29	0.3	0	0	0	0	0	0
6/10/2024 12:18	27603	PIRI_T2	0	0	0	0	0	0	-0.68	-0.71	2	2	0	1800	1800	0
6/10/2024 12:19	47401	PENS_T1	5	3	-2	0.4	0.77	0.37	1.46	1.27	0	0	0	0	0	0
6/10/2024 12:19	47402	PENS_T1	2	2	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
6/10/2024 12:19	47403	PENS_T1	15	4	-11	0.35	0.48	0.13	0	0	0	0	0	0	0	0
6/10/2024 12:20	66504	SMAN_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/10/2024 12:20	66501	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/10/2024 12:20	66502	SMAN_T2	2	2	0	0.1	0.65	0.55	0	0	0	0	0	0	0	0
6/10/2024 12:20	58401	MORO_T1	0	1	1	0	0.3	0.3	-0.58	-0.57	1	1	0	600	600	0
6/10/2024 12:23	60301	TWVA_T2	0	0	0	0	0	0	-1.68	-1.67	2	2	0	1500	1500	0
6/10/2024 12:23	67401	WAKE_T2	4	4	0	0.43	0.33	-0.1	-0.87	-0.86	0	0	0	0	0	0
6/10/2024 12:23	16505	STRO_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
6/10/2024 12:24	10603	BLGL_T1	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
6/10/2024 12:24	67401	WAKE_T2	4	4	0	0.43	0.33	-0.1	-0.87	-0.86	0	0	0	0	0	0
6/10/2024 12:25	10205	ALLE_T3	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
6/10/2024 12:26	41502	FAIR_T2	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
6/10/2024 12:26	57006	WHHI_T2	2	2	0	0.65	0.75	0.1	0	0	0	0	0	0	0	0
6/10/2024 12:26	63501	HEID_TBK1-2	1	0	-1	0.1	0	-0.1	0.46	0.39	1	1	0	900	900	0
6/10/2024 12:26	53602	DALM_T2	0	0	0	0	0	0	-0.5	-0.5	1	1	0	600	600	0
6/10/2024 12:26	53601	DALM_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/10/2024 12:26	57004	WHHI_T2	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
6/10/2024 12:26	57003	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/10/2024 12:27	24702	FLND_T2	2	2	0	0.7	0.6	-0.1	0.05	0.29	1	1	0	1200	1200	0
6/10/2024 12:27	54601	SUMM_T2	0	3	3	0	0.13	0.13	-1.61	-1.63	2	2	0	2100	2100	0
6/10/2024 12:28	46203	DANV_T2	2	0	-2	0.75	0	-0.75	0	0	0	0	0	0	0	0
6/10/2024 12:28	63303	GREE_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/10/2024 12:28	63501	HEID_TBK1-2	1	0	-1	0.1	0	-0.1	0.46	0.39	1	1	0	900	900	0
6/10/2024 12:28	63302	GREE_T1	0	0	0	0	0	0	0.88	0.89	0	0	0	0	0	0
6/10/2024 12:28	46204	DANV_T2	0	0	0	0	0	0	-0.14	-0.12	1	1	0	1200	1200	0
6/10/2024 12:28	42102	FRAI_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/10/2024 12:29	23201	HIRU_T2	37	66	29	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
6/10/2024 12:29	23202	HIRU_T2	7	22	15	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
6/10/2024 12:29	52403	GRPA_T2	6	15	9	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
6/10/2024 12:29	51004	NHAR_T1	2	7	5	3.4	1.2	-2.2	-0.33	-0.31	0	0	0	0	0	0
6/10/2024 12:29	24701	FLND_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
6/10/2024 12:29	23203	HIRU_T2	7	46	39	0.14	0.15	0.01	0.16	0.19	0	0	0	0	0	0
6/10/2024 12:29	52402	GRPA_T2	15	15	0	0.62	0.51	-0.11	-0.8	-0.79	0	0	0	0	0	0
6/10/2024 12:29	51002	NHAR_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/10/2024 12:29	24702	FLND_T2	2	2	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
6/10/2024 12:30	63801	HEMP_T1	1	4	3	0.4	0.18	-0.22	0	0	0	0	0	0	0	0
6/10/2024 12:30	23201	HIRU_T2	65	41	-24	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
6/10/2024 12:30	23202	HIRU_T2	17	19	2	0.19	0.18	-0.01	0.1	0.1	0	0	0	0	0	0
6/10/2024 12:30	63802	HEMP_T1	0	1	1	0	0	0	0.37	0.37	0	0	0	0	0	0
6/10/2024 12:30	63804	HEMP_T1	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
6/10/2024 12:30	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 12:30	23203	HIRU_T2	8	47	39	0.21	0.14	-0.07	0	0	0	0	0	0	0	0
6/10/2024 12:30	63501	HEID_TBK1-2	0	0	0	0	0	0	0.46	0.39	1	1	0	900	900	0
6/10/2024 12:31	12001	HATF_T1	0	0	0	0	0	0	0.89	0.93	1	1	0	600	600	0
6/10/2024 12:32	52402	GRPA_T2	15	7	-8	0.51	0.59	0.08	-0.8	-0.79	0	0	0	0	0	0
6/10/2024 12:32	52404	GRPA_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 12:32	52403	GRPA_T2	6	14	8	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
6/10/2024 12:33	14203	EALL_T1	4	0	-4	0.55	0	-0.55	0.16	0.22	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/10/2024 12:33	45001	LIME_2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/10/2024 12:33	52004	LING_T2	0	2	2	0	0.45	0.45	0.47	0.47	0	0	0	0	0	0
6/10/2024 12:33	45002	LIME_2	1	1	0	4.7	4.7	0	0	0	0	0	0	0	0	0
6/10/2024 12:33	42802	SELI_T1	0	0	0	0	0	0	-0.52	-0.6	1	1	0	900	900	0
6/10/2024 12:33	45003	LIME_2	2	2	0	1.8	1.65	-0.15	0.39	0.38	0	0	0	0	0	0
6/10/2024 12:34	66702	STRA_T1	0	0	0	0	0	0	-0.32	-0.25	2	2	0	1500	1500	0
6/10/2024 12:34	52004	LING_T2	0	2	2	0	0.45	0.45	0.47	0.47	0	0	0	0	0	0
6/10/2024 12:34	66701	STRA_T1	1	2	1	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
6/10/2024 12:35	57403	SPAN_T1	1	2	1	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
6/10/2024 12:35	60504	NMAN_T2	2	2	0	0.45	0.35	-0.1	-0.25	-0.25	1	1	0	1200	1200	0
6/10/2024 12:35	57401	SPAN_T1	1	2	1	3.9	0.55	-3.35	-0.72	-0.7	1	1	0	600	600	0
6/10/2024 12:35	14203	EALL_T1	4	0	-4	0.55	0	-0.55	0.16	0.22	1	1	0	1200	1200	0
6/10/2024 12:35	60501	NMAN_T2	3	3	0	4.8	4.53	-0.27	0	0	0	0	0	0	0	0
6/10/2024 12:36	27502	WEIS_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
6/10/2024 12:36	47401	PENS_T1	3	0	-3	0.77	0	-0.77	3.79	3.77	0	0	0	0	0	0
6/10/2024 12:36	57203	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 12:36	47403	PENS_T1	4	1	-3	0.48	2	1.52	0	0	0	0	0	0	0	0
6/10/2024 12:36	57201	ROSS_T1	0	0	0	0	0	0	-0.3	-0.22	0	0	0	0	0	0
6/10/2024 12:36	27503	WEIS_T2	16	24	8	0.21	0.22	0.01	0	0	0	0	0	0	0	0
6/10/2024 12:36	57205	ROSS_T1	3	3	0	0.6	0.73	0.13	-0.5	-0.27	1	1	0	900	900	0
6/10/2024 12:36	47402	PENS_T1	2	1	-1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
6/10/2024 12:37	57205	ROSS_T1	3	3	0	0.6	0.73	0.13	-0.27	0.52	1	0	-1	900	0	-900
6/10/2024 12:37	57203	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 12:37	56501	ROCK_T2	3	3	0	0.47	0.2	-0.27	0.29	0.31	0	0	0	0	0	0
6/10/2024 12:37	56503	ROCK_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/10/2024 12:38	42802	SELI_T1	0	0	0	0	0	0	-0.6	-0.52	1	1	0	900	900	0
6/10/2024 12:40	24104	EHAZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 12:40	60801	BUCK_T1	1	0	0	0.1	0.2	0.1	-0.05	0.07	0	0	0	0	0	0
6/10/2024 12:40	24102	EHAZ_T1	1	1	0	2	0.9	-1.1	0.85	-0.02	0	0	0	0	0	0
6/10/2024 12:40	24105	EHAZ_T1	4	4	0	6.55	5.95	-0.6	0	0	0	0	0	0	0	0
6/10/2024 12:40	24101	EHAZ_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/10/2024 12:41	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 12:41	53601	DALM_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
6/10/2024 12:41	10205	ALLE_T3	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
6/10/2024 12:41	53602	DALM_T2	0	0	0	0	0	0	-0.5	-0.49	1	1	0	600	600	0
6/10/2024 12:42	40101	HUNT_T2	0	1	1	0	0	0	-0.25	-0.24	0	0	0	0	0	0
6/10/2024 12:42	53902	HALI_T2	3	3	0	2.17	2.03	-0.14	0	0	0	0	0	0	0	0
6/10/2024 12:42	53903	HALI_T2	10	9	-1	0.87	0.87	0	0	0	0	0	0	0	0	0
6/10/2024 12:42	53901	HALI_T2	1	2	1	0.2	0.2	0	-0.88	-0.87	0	0	0	0	0	0
6/10/2024 12:43	52403	GRPA_T2	6	14	8	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
6/10/2024 12:43	64204	KINZ_T1	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/10/2024 12:43	64203	KINZ_T1	0	0	0	0	0	0	0.91	0.98	2	2	0	900	900	0
6/10/2024 12:43	52404	GRPA_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 12:43	52402	GRPA_T2	15	7	-8	0.51	0.59	0.08	-0.79	-0.78	0	0	0	0	0	0
6/10/2024 12:44	52405	GRPA_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 12:44	52403	GRPA_T2	6	14	8	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
6/10/2024 12:44	47001	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 12:44	52402	GRPA_T2	15	7	-8	0.51	0.59	0.08	-0.79	-0.78	0	0	0	0	0	0
6/10/2024 12:45	52404	GRPA_T2	0	0	0	0	0	0	0.69	0.72	0	0	0	0	0	0
6/10/2024 12:45	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 12:45	40502	CRES_T2	1	10	9	3.7	0.2	-3.5	0.94	0.95	0	0	0	0	0	0
6/10/2024 12:45	63804	HEMP_T1	1	1	0	6.7	6.4	-0.3	-0.23	-0.26	0	0	0	0	0	0
6/10/2024 12:45	63801	HEMP_T1	2	4	2	0.1	0.18	0.08	0	0	0	0	0	0	0	0
6/10/2024 12:45	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 12:45	52402	GRPA_T2	6	8	2	0.67	0.48	-0.19	0	0	0	0	0	0	0	0
6/10/2024 12:45	63802	HEMP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/10/2024 12:45	52403	GRPA_T2	14	0	-14	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/10/2024 12:45	41501	FAIR_T2	0	0	0	0	0	0	-0.91	-0.91	1	1	0	600	600	0
6/10/2024 12:46	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 12:46	47001	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 12:46	40502	CRES_T2	1	10	9	3.7	0.2	-3.5	0.47	0.47	0	0	0	0	0	0
6/10/2024 12:48	52401	GRPA_T2	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
6/10/2024 12:48	26401	INOR_T1	2	1	-1	4.3	8.4	4.1	0.77	0.75	0	0	0	0	0	0
6/10/2024 12:48	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 12:48	52403	GRPA_T2	14	0	-14	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/10/2024 12:48	40502	CRES_T2	1	10	9	3.7	0.2	-3.5	0.31	0.32	0	0	0	0	0	0
6/10/2024 12:48	16403	MOPO_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
6/10/2024 12:48	52402	GRPA_T2	6	8	2	0.67	0.48	-0.19	0	0	0	0	0	0	0	0
6/10/2024 12:50	49803	UNIV_T1	0	0	0	0	0	0	-0.94	-0.81	0	0	0	0	0	0
6/10/2024 12:50	40502	CRES_T2	1	10	9	3.7	0.2	-3.5	0.31	0.32	0	0	0	0	0	0
6/10/2024 12:50	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 12:51	67804	WLAN_T1	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
6/10/2024 12:51	60801	BUCK_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/10/2024 12:51	67803	WLAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/10/2024 12:51	60803	BUCK_T1	0	0	0	0	0	0	-0.4	-0.4	1	1	0	600	600	0
6/10/2024 12:51	16302	ALPA_T2	0	0	0	0	0	0	0.98	0.96	0	0	0	0	0	0
6/10/2024 12:52	67202	TEHI_T2	0	0	0	0	0	0	0.49	0.45	1	1	0	900	900	0
6/10/2024 12:52	67401	WAKE_T2	3	3	0	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
6/10/2024 12:52	67402	WAKE_T2	0	0	0	0	0	0	0.7	0.71	1	1	0	600	600	0
6/10/2024 12:53	66502	SMAN_T2	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
6/10/2024 12:53	66504	SMAN_T2	0	2	2	0	0.45	0.45	-1.24	-1.21	1	1	0	1200	1200	0
6/10/2024 12:53	27005	BELL_T1	0	0	0	0	0	0	-1.6	-1.59	0	0	0	0	0	0
6/10/2024 12:53	67803	WLAN_T1	1	1	0	0.4	0.4	0	-0.63	-0.62	0	0	0	0	0	0
6/10/2024 12:53	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/10/2024 12:53	60201	ATGL_T2	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
6/10/2024 12:54	45402	WBLO_T2	3	3	0	0.3	0.53	0.23	-0.56	-0.56	0	0	0	0	0	0
6/10/2024 12:54	67803	WLAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/10/2024 12:54	67804	WLAN_T1	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
6/10/2024 12:55	67501	WEWI_T1	2	2	0	1.2	0.95	-0.25	0	0	0	0	0	0	0	0
6/10/2024 12:55	67505	WEWI_T1	0	1	1	0	0.3	0.3	0.06	0.11	1	1	0	900	900	0
6/10/2024 12:56	67503	WEWI_T2	1	1	0	0.3	0.2	-0.1	0.09	0.22	0	0	0	0	0	0
6/10/2024 12:56	67502	WEWI_T2	9	15	6	0.42	0.43	0.01	0	0	0	0	0	0	0	0
6/10/2024 12:56	16302	ALPA_T2	0	0	0	0	0	0	0.98	0.96	0	0	0	0	0	0
6/10/2024 12:57	56803	BENV_T1	5	4	-1	0.44	0.6	0.16	0	0	0	0	0	0	0	0
6/10/2024 12:57	56801	BENV_T1	8	5	-3	0.74	0.54	-0.2	0.04	0.06	1	1	0	600	600	0
6/10/2024 12:57	56802	BENV_T2	9	4	-5	0.4	0.5	0.1	-0.45	-0.44	0	0	0	0	0	0
6/10/2024 12:57	67502	WEWI_T2	9	15	6	0.42	0.43	0.01	0	0	0	0	0	0	0	0
6/10/2024 12:57	67503	WEWI_T2	1	1	0	0.3	0.2	-0.1	0.09	0.22	0	0	0	0	0	0
6/10/2024 12:59	17401	FOHI_T1	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
6/10/2024 12:59	56801	BENV_T1	8	5	-3	0.74	0.54	-0.2	0	0	0	0	0	0	0	0
6/10/2024 12:59	56803	BENV_T1	5	4	-1	0.44	0.6	0.16	-0.02	-0.02	0	0	0	0	0	0
6/10/2024 12:59	22905	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 12:59	22903	HARW_T1	1	6	5	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/10/2024 12:59	22901	HARW_T1	0	1	1	0	0.3	0.3	-0.23	-0.29	1	1	0	1200	1200	0
6/10/2024 13:01	22901	HARW_T1	1	0	-1	0.3	0	-0.3	-0.23	-0.29	1	1	0	1200	1200	0
6/10/2024 13:01	22903	HARW_T1	6	1	-5	0.32	0	-0.32	0	0	0	0	0	0	0	0
6/10/2024 13:02	45002	LIME_2	1	1	0	4.7	4.4	-0.3	0	0	0	0	0	0	0	0
6/10/2024 13:02	45003	LIME_2	2	2	0	1.6	1.65	0.05	0.38	0.37	0	0	0	0	0	0
6/10/2024 13:02	45001	LIME_2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/10/2024 13:03	45001	LIME_2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/10/2024 13:03	45002	LIME_2	1	1	0	4.7	4.4	-0.3	0	0	0	0	0	0	0	0
6/10/2024 13:03	45003	LIME_2	2	2	0	1.6	1.65	0.05	0.75	0.74	0	0	0	0	0	0
6/10/2024 13:03	41902	REED_T1	0	0	0	0	0	0	1.28	1.28	0	0	0	0	0	0
6/10/2024 13:04	66502	SMAN_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/10/2024 13:04	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/10/2024 13:04	66504	SMAN_T2	2	2	0	0.25	0.45	0.2	-2.49	-2.42	2	2	0	2400	2400	0
6/10/2024 13:04	64902	MILL_T2	0	0	0	0	0	0	-0.36	-0.37	1	1	0	900	900	0
6/10/2024 13:04	64904	MILL_T1	0	0	0	0	0	0	-0.13	-0.06	0	0	0	0	0	0
6/10/2024 13:06	66502	SMAN_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/10/2024 13:06	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/10/2024 13:06	66504	SMAN_T2	2	2	0	0.25	0.45	0.2	-1.21	-1.18	1	1	0	1200	1200	0
6/10/2024 13:07	57006	WHHI_T2	2	1	-1	0.75	0.3	-0.45	0.24	0.24	0	0	0	0	0	0
6/10/2024 13:07	57003	WHHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/10/2024 13:07	44301	BEAV_T2	1	3	2	0.8	0.43	-0.37	0.83	0.89	2	2	0	1500	1500	0
6/10/2024 13:07	44302	BEAV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/10/2024 13:08	45001	LIME_2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/10/2024 13:08	10107	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 13:08	45003	LIME_2	2	2	0	1.6	1.65	0.05	0.37	0.37	0	0	0	0	0	0
6/10/2024 13:08	45002	LIME_2	1	1	0	4.7	4.4	-0.3	0	0	0	0	0	0	0	0
6/10/2024 13:08	41902	REED_T1	0	0	0	0	0	0	1.28	1.28	0	0	0	0	0	0
6/10/2024 13:09	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/10/2024 13:09	66502	SMAN_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/10/2024 13:09	56803	BENV_T1	4	2	-2	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
6/10/2024 13:09	66504	SMAN_T2	2	2	0	0.25	0.45	0.2	-1.21	-1.18	1	1	0	1200	1200	0
6/10/2024 13:09	56801	BENV_T1	4	4	0	0.65	0.53	-0.12	0.06	0.08	1	1	0	600	600	0
6/10/2024 13:09	67803	WLAN_T1	1	0	-1	0.4	0	-0.4	0.62	-0.61	0	0	0	0	0	0
6/10/2024 13:11	20401	ASHF_T2	1	3	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
6/10/2024 13:11	20403	ASHF_T2	6	0	-6	0.4	0	-0.4	1.55	1.57	0	0	0	0	0	0
6/10/2024 13:11	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 13:12	44302	BEAV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/10/2024 13:12	56803	BENV_T1	4	2	-2	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
6/10/2024 13:12	56801	BENV_T1	4	4	0	0.65	0.53	-0.12	0.12	0.16	2	2	0	1200	1200	0
6/10/2024 13:12	24702	FLND_T2	3	3	0	0.97	0.83	-0.14	0.42	0.18	1	1	0	1200	1200	0
6/10/2024 13:12	44301	BEAV_T2	1	3	2	0.8	0.43	-0.37	0.83	0.89	2	2	0	1500	1500	0
6/10/2024 13:13	22904	HARW_T1	0	0	0	0	0	0	-0.49	-0.55	0	0	0	0	0	0
6/10/2024 13:13	22903	HARW_T1	6	1	-5	0.32	0	-0.32	0	0	0	0	0	0	0	0
6/10/2024 13:13	56801	BENV_T1	4	4	0	0.65	0.53	-0.12	0.12	0.16	2	2	0	1200	1200	0
6/10/2024 13:13	22901	HARW_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/10/2024 13:13	10805	CHHI_T2	1	1	0	9.1	8.9	-0.2	-0.64	-0.64	1	1	0	600	600	0
6/10/2024 13:13	56803	BENV_T1	4	2	-2	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
6/10/2024 13:14	56801	BENV_T1	4	4	0	0.65	0.53	-0.12	0.12	0.16	2	2	0	1200	1200	0
6/10/2024 13:14	56803	BENV_T1	4	2	-2	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
6/10/2024 13:15	22903	HARW_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/10/2024 13:15	22904	HARW_T1	0	0	0	0	0	0	-0.49	-0.55	0	0	0	0	0	0
6/10/2024 13:16	22905	HARW_T1	0	0	0	0	0	0	-1.27	-1.27	0	0	0	0	0	0
6/10/2024 13:16	22903	HARW_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/10/2024 13:17	64704	LITI_T1	0	0	0	0	0	0	0.51	0.57	1	1	0	600	600	0
6/10/2024 13:17	65803	RTWN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/10/2024 13:17	65802	RTWN_T2	1	1	0	0.6	0.5	-0.1	0.1	0.09	0	0	0	0	0	0
6/10/2024 13:17	28403	HART_T2	2	2	0	0.35	0.1	-0.25	-0.68	-0.68	1	1	0	900	900	0
6/10/2024 13:20	67605	WARW_T1	2	3	1	0.85	0.47	-0.38	-0.78	-0.78	0	0	0	0	0	0
6/10/2024 13:21	43108	SMIL_T2	0	0	0	0	0	0	-0.6	-0.61	1	1	0	1200	1200	0
6/10/2024 13:21	54602	SUMM_T2	0	0	0	0	0	0	-2.18	-2.2	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/10/2024 13:21	67605	WARW_T1	2	3	1	0.85	0.47	-0.38	-0.78	-0.78	0	0	0	0	0	0
6/10/2024 13:21	43102	SMIL_T2	3	4	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
6/10/2024 13:21	43105	SMIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/10/2024 13:21	43103	SMIL_T2	10	17	7	0.28	0.32	0.04	0	0	0	0	0	0	0	0
6/10/2024 13:21	43101	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 13:22	56602	HAMP_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/10/2024 13:23	60801	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 13:23	67803	WLAN_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
6/10/2024 13:23	60803	BUCK_T1	0	0	0	0	0	0	-0.39	-0.39	1	1	0	600	600	0
6/10/2024 13:23	67502	WEWI_T2	14	16	2	0.44	0.56	0.12	-0.89	-0.97	1	1	0	900	900	0
6/10/2024 13:23	67503	WEWI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/10/2024 13:23	55102	WERT_T2	0	0	0	0	0	0	-0.59	-0.6	2	2	0	1200	1200	0
6/10/2024 13:24	14401	SSLA_T1	2	2	0	0.65	0.95	0.3	-0.26	-0.25	0	0	0	0	0	0
6/10/2024 13:24	64503	LAVI_T1	0	0	0	0	0	0	-1.8	-1.59	2	2	0	2100	2100	0
6/10/2024 13:24	56801	BENV_T1	4	3	-1	0.5	0.8	0.3	0.08	0.1	1	1	0	600	600	0
6/10/2024 13:24	14403	SSLA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/10/2024 13:24	14402	SSLA_T1	2	5	3	0.55	0.52	-0.03	0	0	0	0	0	0	0	0
6/10/2024 13:24	14404	SSLA_T1	1	4	3	5.4	1.58	-3.82	0.06	0.07	0	0	0	0	0	0
6/10/2024 13:24	56803	BENV_T1	1	2	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/10/2024 13:25	56801	BENV_T1	4	3	-1	0.5	0.8	0.3	0.08	0.1	1	1	0	600	600	0
6/10/2024 13:25	56803	BENV_T1	1	2	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/10/2024 13:25	55101	WERT_T1	0	0	0	0	0	0	-1.22	-1.22	3	3	0	2400	2400	0
6/10/2024 13:26	41801	GOCI_T2	1	11	10	0.1	0.33	0.23	0	0	0	0	0	0	0	0
6/10/2024 13:26	24902	WHHA_T1	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
6/10/2024 13:26	56801	BENV_T1	4	3	-1	0.5	0.8	0.3	0.08	0.1	1	1	0	600	600	0
6/10/2024 13:26	56803	BENV_T1	1	2	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/10/2024 13:27	53901	HALI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
6/10/2024 13:27	53903	HALI_T2	9	14	5	0.71	0.71	0	-0.21	-0.19	0	0	0	0	0	0
6/10/2024 13:27	53902	HALI_T2	3	3	0	2.2	2.6	0.4	0	0	0	0	0	0	0	0
6/10/2024 13:28	56801	BENV_T1	4	3	-1	0.5	0.8	0.3	0.24	0.29	3	3	0	1800	1800	0
6/10/2024 13:28	56803	BENV_T1	1	2	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/10/2024 13:29	56801	BENV_T1	4	3	-1	0.5	0.8	0.3	0.16	0.19	2	2	0	1200	1200	0
6/10/2024 13:29	56803	BENV_T1	1	2	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/10/2024 13:30	41801	GOCI_T2	1	11	10	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/10/2024 13:31	64801	MONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 13:31	64201	KINZ_T1	0	0	0	0	0	0	0.28	-0.27	3	4	1	1500	2100	600
6/10/2024 13:31	58402	MORO_T1	0	0	0	0	0	0	-0.69	-0.69	3	3	0	2400	2400	0
6/10/2024 13:31	64204	KINZ_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
6/10/2024 13:31	64802	MONE_T2	4	2	-2	0.5	0.65	0.15	0.32	0.32	0	0	0	0	0	0
6/10/2024 13:31	58401	MORO_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/10/2024 13:32	23403	HONE_T1	0	1	1	0	0.1	0.1	-0.53	-0.57	0	0	0	0	0	0
6/10/2024 13:32	63804	HEMP_T1	1	1	0	6.6	6.9	0.3	0	0	0	0	0	0	0	0
6/10/2024 13:32	63801	HEMP_T1	1	0	-1	0.5	0	-0.5	-0.11	-0.02	1	1	0	900	900	0
6/10/2024 13:35	16401	MOPO_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
6/10/2024 13:36	59101	WALK_T2	0	0	0	0	0	0	1.7	2.15	0	0	0	0	0	0
6/10/2024 13:36	43301	WATS_T2	1	2	1	0.3	0.35	0.05	-0.52	-0.52	1	1	0	900	900	0
6/10/2024 13:38	46206	DANV_T2	1	1	0	1.6	1.9	0.3	3.44	3.46	1	1	0	1200	1200	0
6/10/2024 13:38	43301	WATS_T2	1	2	1	0.3	0.35	0.05	-0.52	-0.52	1	1	0	900	900	0
6/10/2024 13:38	66505	SMAN_T2	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
6/10/2024 13:38	57403	SPAN_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
6/10/2024 13:38	66501	SMAN_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/10/2024 13:38	66502	SMAN_T2	2	3	1	0.8	0.33	-0.47	0	0	0	0	0	0	0	0
6/10/2024 13:38	60201	ATGL_T2	0	0	0	0	0	0	0.78	0.65	0	1	1	0	300	300
6/10/2024 13:38	66504	SMAN_T2	1	2	1	0.2	0.5	0.3	-1.16	-1.15	1	1	0	1200	1200	0
6/10/2024 13:38	59101	WALK_T2	0	0	0	0	0	0	8.61	9	0	0	0	0	0	0
6/10/2024 13:38	57401	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 13:39	16101	BING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/10/2024 13:39	16103	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 13:39	16102	BING_T2	0	0	0	0	0	0	0.7	0.71	0	0	0	0	0	0
6/10/2024 13:39	46206	DANV_T2	1	1	0	1.6	1.9	0.3	3.44	3.46	1	1	0	1200	1200	0
6/10/2024 13:40	16101	BING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/10/2024 13:40	16103	BING_T2	0	1	1	0	0	0	-0.66	-0.65	2	2	0	1500	1500	0
6/10/2024 13:41	41801	GOCI_T2	1	11	10	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/10/2024 13:42	46206	DANV_T2	1	1	0	1.6	1.9	0.3	3.44	3.46	1	1	0	1200	1200	0
6/10/2024 13:42	41801	GOCI_T2	1	11	10	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/10/2024 13:43	60901	DONG_T2	6	6	0	0.3	0.55	0.25	0	0	0	0	0	0	0	0
6/10/2024 13:43	60902	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 13:43	60903	DONG_T2	0	1	1	0	0.1	0.1	1.17	1.14	1	1	0	600	600	0
6/10/2024 13:43	60904	DONG_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
6/10/2024 13:44	46206	DANV_T2	1	1	0	1.6	1.9	0.3	3.44	3.46	1	1	0	1200	1200	0
6/10/2024 13:44	51002	NHAR_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/10/2024 13:44	51004	NHAR_T1	3	8	5	2.53	1.08	-1.45	0	0	0	0	0	0	0	0
6/10/2024 13:44	51003	NHAR_T1	0	0	0	0	0	0	-1.11	-1.16	1	1	0	1200	1200	0
6/10/2024 13:45	40101	HUNT_T2	1	2	1	1	0.1	-0.9	0.1	0.1	0	0	0	0	0	0
6/10/2024 13:46	40101	HUNT_T2	1	2	1	1	0.1	-0.9	0.05	0.05	0	0	0	0	0	0
6/10/2024 13:49	46206	DANV_T2	1	2	1	1.9	1.3	-0.6	3.44	3.46	1	1	0	1200	1200	0
6/10/2024 13:49	43103	SMIL_T2	16	5	-11	0.32	0.23	-0.09	-0.71	-0.72	0	0	0	0	0	0
6/10/2024 13:49	43101	SMIL_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
6/10/2024 13:49	43102	SMIL_T2	3	3	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/10/2024 13:50	24603	VARD_T2	1	2	1	0.2	0.65	0.45	-0.08	-0.08	0	0	0	0	0	0
6/10/2024 13:50	24602	VARD_T2	47	23	-24	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
6/10/2024 13:51	66501	SMAN_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
6/10/2024 13:51	67501	WEWI_T1	2	2	0	0.9	0.9	0	-0.72	-0.67	1	1	0	600	600	0
6/10/2024 13:51	67505	WEWI_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/10/2024 13:51	66502	SMAN_T2	0	6	6	0	0.33	0.33	0	0	0	0	0	0	0	0
6/10/2024 13:51	66504	SMAN_T2	2	2	0	0.25	0.5	0.25	-1.15	-1.13	1	1	0	1200	1200	0
6/10/2024 13:51	66505	SMAN_T2	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
6/10/2024 13:52	43102	SMIL_T2	3	3	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/10/2024 13:52	43101	SMIL_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
6/10/2024 13:52	43103	SMIL_T2	16	5	-11	0.32	0.23	-0.09	-0.72	-0.72	0	0	0	0	0	0
6/10/2024 13:52	51304	WIND_T2	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
6/10/2024 13:53	66503	SMAN_T2	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
6/10/2024 13:53	66505	SMAN_T2	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
6/10/2024 13:53	66504	SMAN_T2	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
6/10/2024 13:53	66501	SMAN_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
6/10/2024 13:53	66502	SMAN_T2	0	6	6	0	0.33	0.33	0	0	0	0	0	0	0	0
6/10/2024 13:54	66504	SMAN_T2	2	2	0	0.25	0.5	0.25	-1.15	-1.13	1	1	0	1200	1200	0
6/10/2024 13:54	66505	SMAN_T2	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
6/10/2024 13:54	66502	SMAN_T2	0	6	6	0	0.33	0.33	0	0	0	0	0	0	0	0
6/10/2024 13:54	66501	SMAN_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
6/10/2024 13:57	41801	GOCI_T2	11	12	1	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
6/10/2024 13:59	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 13:59	22903	HARW_T1	0	0	0	0	0	0	0.56	0.51	0	0	0	0	0	0
6/10/2024 13:59	40502	CRES_T2	11	12	1	0.29	0.27	-0.02	0.33	0.33	0	0	0	0	0	0
6/10/2024 14:00	52004	LING_T2	1	0	-1	0.3	0	-0.3	0.48	0.49	0	0	0	0	0	0
6/10/2024 14:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 14:00	40502	CRES_T2	12	2	-10	0.27	0.1	-0.17	0.49	0.5	0	0	0	0	0	0
6/10/2024 14:01	40502	CRES_T2	12	2	-10	0.27	0.1	-0.17	0.33	0.33	0	0	0	0	0	0
6/10/2024 14:01	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 14:01	14802	TREI_T2	2	0	-2	0.35	0	-0.35	0.74	0.75	0	0	0	0	0	0
6/10/2024 14:01	41801	GOCI_T2	7	12	5	0.59	0.33	-0.26	0	0	0	0	0	0	0	0
6/10/2024 14:01	14801	TREI_T2	1	3	2	1.4	0.37	-1.03	0	0	0	0	0	0	0	0
6/10/2024 14:01	44703	MUNC_T2	0	0	0	0	0	0	0.95	0.96	0	0	0	0	0	0
6/10/2024 14:02	40502	CRES_T2	12	2	-10	0.27	0.1	-0.17	0.33	0.33	0	0	0	0	0	0
6/10/2024 14:02	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 14:02	14801	TREI_T2	1	3	2	1.4	0.37	-1.03	0	0	0	0	0	0	0	0
6/10/2024 14:02	14802	TREI_T2	2	0	-2	0.35	0	-0.35	0.74	0.75	0	0	0	0	0	0
6/10/2024 14:03	67502	WEWI_T2	6	12	6	0.58	0.47	-0.11	0	0	0	0	0	0	0	0
6/10/2024 14:03	67503	WEWI_T2	1	2	1	0.1	0.15	0.05	0.2	0.27	0	0	0	0	0	0
6/10/2024 14:03	40502	CRES_T2	12	2	-10	0.27	0.1	-0.17	0.49	0.5	0	0	0	0	0	0
6/10/2024 14:03	14802	TREI_T2	2	0	-2	0.35	0	-0.35	0.74	0.75	0	0	0	0	0	0
6/10/2024 14:03	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 14:03	14801	TREI_T2	1	3	2	1.4	0.37	-1.03	0	0	0	0	0	0	0	0
6/10/2024 14:04	40502	CRES_T2	12	2	-10	0.27	0.1	-0.17	1.15	1.16	0	0	0	0	0	0
6/10/2024 14:04	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 14:04	44203	POIN_T2	0	0	0	0	0	0	-0.52	-0.51	2	2	0	2100	2100	0
6/10/2024 14:04	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 14:06	44202	POIN_T2	0	1	1	0	0	0	-0.3	-0.31	1	1	0	1200	1200	0
6/10/2024 14:06	67402	WAKE_T2	0	0	0	0	0	0	0.69	0.71	1	1	0	600	600	0
6/10/2024 14:06	43301	WATS_T2	2	2	0	0.35	0.45	0.1	-0.52	-0.52	1	1	0	900	900	0
6/10/2024 14:06	51303	WIND_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/10/2024 14:06	67401	WAKE_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/10/2024 14:06	51301	WIND_T1	3	5	2	0.23	0.52	0.29	0	0	0	0	0	0	0	0
6/10/2024 14:06	51305	WIND_T1	1	1	0	1.4	1.3	-0.1	0.37	0.37	0	0	0	0	0	0
6/10/2024 14:08	55102	WERT_T2	0	0	0	0	0	0	-0.58	-1.18	2	2	0	1200	1200	0
6/10/2024 14:08	57402	SPAN_T2	1	0	-1	0.5	0	-0.5	-1.04	-1.04	0	0	0	0	0	0
6/10/2024 14:09	51303	WIND_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/10/2024 14:09	51301	WIND_T1	3	5	2	0.23	0.52	0.29	0	0	0	0	0	0	0	0
6/10/2024 14:09	14801	TREI_T2	1	3	2	1.4	0.37	-1.03	0	0	0	0	0	0	0	0
6/10/2024 14:09	14802	TREI_T2	2	0	-2	0.35	0	-0.35	0.75	0.75	0	0	0	0	0	0
6/10/2024 14:09	51305	WIND_T1	1	1	0	1.4	1.3	-0.1	0.37	0.38	0	0	0	0	0	0
6/10/2024 14:10	51602	DUKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 14:10	51604	DUKE_T2	2	3	1	0.4	0.5	0.1	-1.09	-1.08	1	1	0	900	900	0
6/10/2024 14:10	27504	WEIS_T1	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
6/10/2024 14:11	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 14:12	17804	GILB_T2	7	4	-3	0.3	0.33	0.03	0	0	0	0	0	0	0	0
6/10/2024 14:12	17805	GILB_T2	2	1	-1	0.35	0.2	-0.15	0.54	0.54	0	0	0	0	0	0
6/10/2024 14:16	42901	MIDD_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/10/2024 14:16	12605	MACA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/10/2024 14:16	45902	AUBU_T1	3	0	-3	0.37	0	-0.37	-0.67	-0.54	1	1	0	600	600	0
6/10/2024 14:16	42902	MIDD_T2	2	15	13	0.3	0.62	0.32	0	0	0	0	0	0	0	0
6/10/2024 14:16	42903	MIDD_T2	2	2	0	0.6	1.65	1.05	0.79	0.74	1	1	0	1200	1200	0
6/10/2024 14:16	40502	CRES_T2	2	0	-2	0.1	0	-0.1	0.17	0.17	0	0	0	0	0	0
6/10/2024 14:16	12601	MACA_T1	2	2	0	0.55	1.2	0.65	0	0	0	0	0	0	0	0
6/10/2024 14:16	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 14:16	12604	MACA_T1	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
6/10/2024 14:16	12606	MACA_T1	0	0	0	0	0	0	0.06	0.06	1	1	0	900	900	0
6/10/2024 14:17	40101	HUNT_T2	1	1	0	0.1	0.1	0	0.1	0.12	0	0	0	0	0	0
6/10/2024 14:17	12601	MACA_T1	2	2	0	0.55	1.2	0.65	0	0	0	0	0	0	0	0
6/10/2024 14:17	12604	MACA_T1	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
6/10/2024 14:17	12605	MACA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/10/2024 14:17	12606	MACA_T1	0	0	0	0	0	0	0.06	0.06	1	1	0	900	900	0
6/10/2024 14:17	52004	LING_T2	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/10/2024 14:18	45902	AUBU_T1	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
6/10/2024 14:18	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 14:18	45901	AUBU_T1	0	0	0	0	0	0	1.36	1.32	0	0	0	0	0	0
6/10/2024 14:18	40502	CRES_T2	2	0	-2	0.1	0	-0.1	0.17	0.17	0	0	0	0	0	0
6/10/2024 14:19	40502	CRES_T2	2	0	-2	0.1	0	-0.1	0.5	0.5	0	0	0	0	0	0
6/10/2024 14:19	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 14:20	40502	CRES_T2	2	0	-2	0.1	0	-0.1	0.33	0.33	0	0	0	0	0	0
6/10/2024 14:20	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 14:21	58401	MORO_T1	0	0	0	0	0	0	-1.09	-1.08	2	2	0	1200	1200	0
6/10/2024 14:22	67602	WARW_T2	0	1	1	0	0	0	1.46	1.53	1	1	0	300	300	0
6/10/2024 14:22	10105	ALLE_T3	3	3	0	0.73	0.2	-0.53	0	0	0	0	0	0	0	0
6/10/2024 14:22	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 14:23	67605	WARW_T1	1	3	2	0.7	0.4	-0.3	-0.81	-0.8	0	0	0	0	0	0
6/10/2024 14:24	67602	WARW_T2	0	1	1	0	0	0	1.46	1.53	1	1	0	300	300	0
6/10/2024 14:24	46504	LOHA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/10/2024 14:24	46506	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
6/10/2024 14:24	54601	SUMM_T2	0	0	0	0	0	0	-1.5	-1.5	2	2	0	2100	2100	0
6/10/2024 14:25	67602	WARW_T2	0	1	1	0	0	0	2.92	3.06	2	2	0	600	600	0
6/10/2024 14:26	67603	WARW_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
6/10/2024 14:26	67605	WARW_T1	1	3	2	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/10/2024 14:26	67602	WARW_T2	0	1	1	0	0	0	7.29	7.66	5	5	0	1500	1500	0
6/10/2024 14:27	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 14:27	10102	ALLE_T2	1	0	-1	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
6/10/2024 14:27	67602	WARW_T2	0	1	1	0	0	0	1.46	1.53	1	1	0	300	300	0
6/10/2024 14:27	10203	ALLE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 14:30	12802	MICK_T1	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
6/10/2024 14:30	12803	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 14:30	62606	ENGL_T1	0	0	0	0	0	0	-0.44	-0.4	1	1	0	900	900	0
6/10/2024 14:31	59001	MIFF_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/10/2024 14:31	52001	LING_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
6/10/2024 14:31	59003	MIFF_T1	0	1	1	0	0.1	0.1	-0.18	0.11	0	0	0	0	0	0
6/10/2024 14:33	45003	LIME_2	2	2	0	1.6	1.7	0.1	0.34	0.44	0	0	0	0	0	0
6/10/2024 14:33	45002	LIME_2	1	1	0	3.9	4.5	0.6	0	0	0	0	0	0	0	0
6/10/2024 14:34	15602	NSTR_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
6/10/2024 14:34	15601	NSTR_T2	3	17	14	1.2	0.43	-0.77	0	0	0	0	0	0	0	0
6/10/2024 14:34	15603	NSTR_T2	3	9	6	0.2	0.17	-0.03	-0.52	-0.52	0	0	0	0	0	0
6/10/2024 14:35	64203	KINZ_T1	0	0	0	0	0	0	1.18	0.95	2	2	0	900	900	0
6/10/2024 14:35	64204	KINZ_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
6/10/2024 14:36	12803	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 14:36	12802	MICK_T1	0	0	0	0	0	0	-0.79	-0.79	0	0	0	0	0	0
6/10/2024 14:38	42201	SHEN_T2	1	1	0	0.4	0.8	0.4	0.03	0.03	1	1	0	600	600	0
6/10/2024 14:39	60504	NMAN_T2	3	3	0	0.6	1.03	0.43	0	0	0	0	0	0	0	0
6/10/2024 14:39	60502	NMAN_T2	0	1	1	0	0.1	0.1	0.11	0.29	0	0	0	0	0	0
6/10/2024 14:39	67503	WEWI_T2	1	1	0	0.2	0.3	0.1	0.23	0.28	0	0	0	0	0	0
6/10/2024 14:39	60103	COCA_T2	0	0	0	0	0	0	-0.38	-0.34	2	2	0	2100	2100	0
6/10/2024 14:39	60501	NMAN_T2	3	3	0	4.93	4.5	-0.43	0	0	0	0	0	0	0	0
6/10/2024 14:39	67605	WARW_T1	3	3	0	0.37	0.37	0	-0.8	-0.79	0	0	0	0	0	0
6/10/2024 14:39	67502	WEWI_T2	10	8	-2	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
6/10/2024 14:40	67602	WARW_T2	0	1	1	0	0	0	1.53	0.28	1	2	1	300	1500	1200
6/10/2024 14:40	67605	WARW_T1	3	3	0	0.37	0.37	0	-0.8	-0.79	0	0	0	0	0	0
6/10/2024 14:41	67602	WARW_T2	0	1	1	0	0	0	4.6	0.84	3	6	3	900	4500	3600
6/10/2024 14:42	63306	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 14:42	63303	GREE_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/10/2024 14:42	67502	WEWI_T2	10	8	-2	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
6/10/2024 14:42	67503	WEWI_T2	1	1	0	0.2	0.3	0.1	0.23	0.28	0	0	0	0	0	0
6/10/2024 14:42	67602	WARW_T2	0	1	1	0	0	0	1.53	0.28	1	2	1	300	1500	1200
6/10/2024 14:43	55101	WERT_T1	0	0	0	0	0	0	-1.95	-1.93	4	4	0	3300	3300	0
6/10/2024 14:45	16403	MOPO_T2	0	0	0	0	0	0	0.44	0.38	0	0	0	0	0	0
6/10/2024 14:45	52002	LING_T2	0	0	0	0	0	0	0.29	0.45	0	0	0	0	0	0
6/10/2024 14:52	67602	WARW_T2	1	0	-1	0.7	0	-0.7	0.28	-0.02	2	2	0	1500	1500	0
6/10/2024 14:52	66501	SMAN_T2	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
6/10/2024 14:52	66502	SMAN_T2	2	5	3	0.35	0.14	-0.21	0	0	0	0	0	0	0	0
6/10/2024 14:52	44201	POIN_T1	2	4	2	0.3	0.13	-0.17	-2.18	-2.19	2	2	0	2100	2100	0
6/10/2024 14:52	66504	SMAN_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/10/2024 14:52	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 14:52	42201	SHEN_T2	1	1	0	0.8	0.4	-0.4	0.03	0.02	1	1	0	600	600	0
6/10/2024 14:52	66505	SMAN_T2	0	0	0	0	0	0	0.5	1.27	2	1	-1	1500	900	-600
6/10/2024 14:53	66501	SMAN_T2	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
6/10/2024 14:53	12801	MICK_T1	0	0	0	0	0	0	-0.63	-0.63	1	1	0	600	600	0
6/10/2024 14:53	12803	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 14:53	66504	SMAN_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/10/2024 14:53	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 14:53	66505	SMAN_T2	0	0	0	0	0	0	0.5	1.27	2	1	-1	1500	900	-600
6/10/2024 14:53	66502	SMAN_T2	2	5	3	0.35	0.14	-0.21	0	0	0	0	0	0	0	0
6/10/2024 14:54	67605	WARW_T1	3	3	0	0.27	0.37	0.1	-0.79	-0.79	0	0	0	0	0	0
6/10/2024 14:54	55105	WERT_T1	0	0	0	0	0	0	0	0.01	1	1	0	900	900	0
6/10/2024 14:55	12801	MICK_T1	0	0	0	0	0	0	-0.63	-0.63	1	1	0	600	600	0
6/10/2024 14:55	12803	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 14:55	67605	WARW_T1	3	0	-3	0.27	0.37	0.1	-0.79	-0.79	0	0	0	0	0	0
6/10/2024 14:56	67803	WLAN_T1	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
6/10/2024 14:58	50501	MECH_T1	4	4	0	0.38	0.18	-0.2	0	0	0	0	0	0	0	0
6/10/2024 14:58	50502	MECH_T1	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
6/10/2024 14:58	50505	MECH_T1	0	0	0	0	0	0	-2.8	-2.75	0	0	0	0	0	0
6/10/2024 14:58	50506	MECH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/10/2024 14:59	41801	GOCI_T2	0	81	81	0	0.26	0.26	0	0	0	0	0	0	0	0
6/10/2024 14:59	41802	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 15:01	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 15:01	64802	MONE_T2	2	2	0	0.4	0.35	-0.05	0.35	0.35	0	0	0	0	0	0
6/10/2024 15:02	63306	GREE_T1	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
6/10/2024 15:02	63305	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 15:05	42201	SHEN_T2	1	0	-1	0.4	0	-0.4	0.05	0.03	2	2	0	1200	1200	0
6/10/2024 15:06	66701	STRA_T1	0	1	1	0	0.1	0.1	0.53	0.34	1	1	0	600	600	0
6/10/2024 15:07	14103	TRUM_T2	2	2	0	1.65	0	-1.65	0	0	0	0	0	0	0	0
6/10/2024 15:07	14102	TRUM_T2	0	1	1	0	0.2	0.2	-0.92	-0.91	3	3	0	2400	2400	0
6/10/2024 15:08	42903	MIDD_T2	2	2	0	1.55	0.7	-0.85	1.01	1.75	0	0	0	0	0	0
6/10/2024 15:08	42902	MIDD_T2	8	0	-8	0.95	0	-0.95	0	0	0	0	0	0	0	0
6/10/2024 15:10	10805	CHHI_T2	1	1	0	9.3	8.8	-0.5	-0.61	-0.7	1	1	0	600	600	0
6/10/2024 15:11	61506	EPET_T2	0	0	0	0	0	0	-1.46	-1.54	2	2	0	1800	1800	0
6/10/2024 15:11	61501	EPET_T2	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 15:12	53901	HALI_T2	1	1	0	0.1	0.2	0.1	-0.81	-0.81	0	0	0	0	0	0
6/10/2024 15:12	53903	HALI_T2	13	12	-1	0.7	0.79	0.09	0	0	0	0	0	0	0	0
6/10/2024 15:12	53902	HALI_T2	3	2	-1	1.9	2.65	0.75	0	0	0	0	0	0	0	0
6/10/2024 15:13	10805	CHHI_T2	1	1	0	9.3	8.8	-0.5	-0.61	-0.7	1	1	0	600	600	0
6/10/2024 15:14	51108	CARL_T1	0	0	0	0	0	0	-0.26	-0.28	1	1	0	600	600	0
6/10/2024 15:14	63305	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 15:14	63304	GREE_T1	0	0	0	0	0	0	-1.29	-1.3	0	0	0	0	0	0
6/10/2024 15:14	51101	CARL_T1	1	1	0	7	6.9	-0.1	0	0	0	0	0	0	0	0
6/10/2024 15:15	40101	HUNT_T2	3	1	-2	0.37	0	-0.37	-0.04	-0.04	0	0	0	0	0	0
6/10/2024 15:16	24803	VALM_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/10/2024 15:16	63305	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 15:16	24802	VALM_T1	0	0	0	0	0	0	1.41	1.39	0	0	0	0	0	0
6/10/2024 15:16	51402	LYKE_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/10/2024 15:16	51401	LYKE_T1	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
6/10/2024 15:16	24801	VALM_T1	2	3	1	0.25	0.75	0.5	0	0	0	0	0	0	0	0
6/10/2024 15:16	45801	HEGI_T1	0	0	0	0	0	0	0.12	0.03	1	1	0	900	900	0
6/10/2024 15:16	63304	GREE_T1	0	0	0	0	0	0	-1.29	-1.3	0	0	0	0	0	0
6/10/2024 15:17	52004	LING_T2	0	1	1	0	0.5	0.5	0.28	0.28	0	0	0	0	0	0
6/10/2024 15:17	63305	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 15:17	63306	GREE_T1	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
6/10/2024 15:18	47802	MOCA_T2	2	2	0	0.5	1	0.5	-0.82	-0.87	0	0	0	0	0	0
6/10/2024 15:18	59003	MIFF_T1	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
6/10/2024 15:18	59002	MIFF_T1	6	5	-1	0.28	0.42	0.14	0	0	0	0	0	0	0	0
6/10/2024 15:18	59001	MIFF_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
6/10/2024 15:19	51401	LYKE_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
6/10/2024 15:19	51402	LYKE_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/10/2024 15:20	43103	SMIL_T2	4	9	5	0.35	0.43	0.08	0	0	0	0	0	0	0	0
6/10/2024 15:20	43102	SMIL_T2	4	4	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
6/10/2024 15:20	43105	SMIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 15:20	43108	SMIL_T2	0	0	0	0	0	0	-0.8	-0.88	1	1	0	1200	1200	0
6/10/2024 15:22	60201	ATGL_T2	0	0	0	0	0	0	0.67	0.52	1	1	0	300	300	0
6/10/2024 15:24	56801	BENV_T1	8	12	4	0.35	0.5	0.15	0.02	0.01	1	1	0	600	600	0
6/10/2024 15:24	56803	BENV_T1	4	3	-1	0.95	1.13	0.18	0	0	0	0	0	0	0	0
6/10/2024 15:25	53903	HALI_T2	8	13	5	0.83	0.72	-0.11	-0.02	-0.02	0	0	0	0	0	0
6/10/2024 15:25	61102	BERK_T5	0	0	0	0	0	0	0.2	0.26	2	2	0	600	600	0
6/10/2024 15:25	67803	WLAN_T1	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
6/10/2024 15:25	56801	BENV_T1	8	12	4	0.35	0.5	0.15	0.02	0.01	1	1	0	600	600	0
6/10/2024 15:25	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 15:25	56803	BENV_T1	4	3	-1	0.95	1.13	0.18	0	0	0	0	0	0	0	0
6/10/2024 15:25	53902	HALI_T2	1	2	1	5	2.5	-2.5	0	0	0	0	0	0	0	0
6/10/2024 15:26	62601	ENGL_T1	0	0	0	0	0	0	0.24	0.29	0	0	0	0	0	0
6/10/2024 15:28	56803	BENV_T1	4	3	-1	0.95	1.13	0.18	0	0	0	0	0	0	0	0
6/10/2024 15:28	56801	BENV_T1	8	12	4	0.35	0.5	0.15	0.02	0.01	1	1	0	600	600	0
6/10/2024 15:33	44201	POIN_T1	8	5	-3	0.19	0.18	-0.01	-2.16	-2.07	2	2	0	2100	2100	0
6/10/2024 15:34	42903	MIDD_T2	0	0	0	0	0	0	1.75	1.91	0	0	0	0	0	0
6/10/2024 15:35	15204	SFAR_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
6/10/2024 15:37	15204	SFAR_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
6/10/2024 15:38	54505	ENOL_T2	0	0	0	0	0	0	-0.96	-0.95	1	1	0	600	600	0
6/10/2024 15:38	60803	BUCK_T1	7	4	-3	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
6/10/2024 15:38	60801	BUCK_T1	3	1	-2	0.17	0.2	0.03	-0.35	-0.36	1	1	0	600	600	0
6/10/2024 15:42	40802	EXCH_T2	1	1	0	0.2	0.1	-0.1	0.11	0.07	0	0	0	0	0	0
6/10/2024 15:42	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 15:43	40801	EXCH_T2	0	1	1	0	0.1	0.1	-0.26	-0.24	1	1	0	1200	1200	0
6/10/2024 15:43	40802	EXCH_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/10/2024 15:44	52403	GRPA_T2	0	1	1	0	0	0	0.52	0.46	0	0	0	0	0	0
6/10/2024 15:44	52402	GRPA_T2	3	3	0	0.5	0.77	0.27	0	0	0	0	0	0	0	0
6/10/2024 15:45	40802	EXCH_T2	1	0	-1	0.1	0	-0.1	0.21	0.14	0	0	0	0	0	0
6/10/2024 15:45	40801	EXCH_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/10/2024 15:47	65503	MOJO_T2	2	1	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/10/2024 15:47	65502	MOJO_T2	1	3	2	0.1	0.1	0	-0.58	-0.58	1	1	0	900	900	0
6/10/2024 15:50	45003	LIME_2	2	2	0	2.1	2.1	0	0.31	0.29	0	0	0	0	0	0
6/10/2024 15:50	65503	MOJO_T2	2	1	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/10/2024 15:50	65502	MOJO_T2	1	3	2	0.1	0.1	0	-0.58	-0.58	1	1	0	900	900	0
6/10/2024 15:50	45002	LIME_2	1	1	0	4	3.5	-0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/10/2024 15:55	56801	BENV_T1	11	11	0	0.45	0.95	0.5	0.02	0.01	2	2	0	1200	1200	0
6/10/2024 15:55	56803	BENV_T1	2	3	1	1.4	0.2	-1.2	0	0	0	0	0	0	0	0
6/10/2024 15:56	60801	BUCK_T1	1	1	0	0.2	0.2	0	-0.36	-0.37	1	1	0	600	600	0
6/10/2024 15:56	56803	BENV_T1	2	3	1	1.4	0.2	-1.2	0	0	0	0	0	0	0	0
6/10/2024 15:56	60803	BUCK_T1	3	4	1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/10/2024 15:56	56801	BENV_T1	11	11	0	0.45	0.95	0.5	0.02	0.01	2	2	0	1200	1200	0
6/10/2024 15:57	67805	WLAN_T1	0	0	0	0	0	0	-0.83	-0.87	0	0	0	0	0	0
6/10/2024 15:57	41801	GOCI_T2	10	5	-5	0.18	0.3	0.12	0	0	0	0	0	0	0	0
6/10/2024 15:57	56801	BENV_T1	11	11	0	0.45	0.95	0.5	0.02	0.01	2	2	0	1200	1200	0
6/10/2024 15:57	56803	BENV_T1	2	3	1	1.4	0.2	-1.2	0	0	0	0	0	0	0	0
6/10/2024 15:58	56801	BENV_T1	11	11	0	0.45	0.95	0.5	0.01	0.01	1	1	0	600	600	0
6/10/2024 15:58	56803	BENV_T1	2	3	1	1.4	0.2	-1.2	0	0	0	0	0	0	0	0
6/10/2024 15:59	41801	GOCI_T2	10	5	-5	0.18	0.3	0.12	0	0	0	0	0	0	0	0
6/10/2024 16:00	14801	TREI_T2	2	2	0	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
6/10/2024 16:00	14802	TREI_T2	1	0	-1	0.3	0	-0.3	0.85	0.82	0	0	0	0	0	0
6/10/2024 16:02	41801	GOCI_T2	5	2	-3	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/10/2024 16:04	65205	PRIN_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
6/10/2024 16:04	64101	REFR_T1	0	0	0	0	0	0	0.21	0.27	0	0	0	0	0	0
6/10/2024 16:06	66501	SMAN_T2	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/10/2024 16:06	66504	SMAN_T2	0	0	0	0	0	0	-1.13	-1.16	1	1	0	1200	1200	0
6/10/2024 16:06	66502	SMAN_T2	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
6/10/2024 16:07	66504	SMAN_T2	0	0	0	0	0	0	-1.13	-1.16	1	1	0	1200	1200	0
6/10/2024 16:07	66501	SMAN_T2	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/10/2024 16:07	66502	SMAN_T2	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
6/10/2024 16:09	66502	SMAN_T2	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
6/10/2024 16:09	66504	SMAN_T2	0	0	0	0	0	0	-1.13	-1.16	1	1	0	1200	1200	0
6/10/2024 16:09	66501	SMAN_T2	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/10/2024 16:10	66501	SMAN_T2	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/10/2024 16:10	66502	SMAN_T2	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
6/10/2024 16:10	66504	SMAN_T2	0	0	0	0	0	0	-1.13	-1.16	1	1	0	1200	1200	0
6/10/2024 16:11	56803	BENV_T1	2	1	-1	1.3	0.1	-1.2	0	0	0	0	0	0	0	0
6/10/2024 16:11	53302	GRAT_T2	12	12	0	0.29	0.37	0.08	0	0	0	0	0	0	0	0
6/10/2024 16:11	46002	BERW_T2	0	0	0	0	0	0	-0.83	-0.87	1	1	0	900	900	0
6/10/2024 16:11	56801	BENV_T1	11	7	-4	0.95	0.99	0.04	0.01	0	1	1	0	600	600	0
6/10/2024 16:12	56803	BENV_T1	2	1	-1	1.3	0.1	-1.2	0	0	0	0	0	0	0	0
6/10/2024 16:12	56801	BENV_T1	11	7	-4	0.95	0.99	0.04	0.01	0	1	1	0	600	600	0
6/10/2024 16:13	41801	GOCI_T2	5	2	-3	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/10/2024 16:14	52402	GRPA_T2	3	3	0	0.77	0.53	-0.24	0	0	0	0	0	0	0	0
6/10/2024 16:14	63303	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 16:14	22901	HAMW_T1	1	0	-1	1	0	-1	-0.35	-0.52	1	1	0	1200	1200	0
6/10/2024 16:14	41801	GOCI_T2	5	2	-3	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/10/2024 16:14	63305	GREE_T1	8	7	-1	0.19	0.23	0.04	-1.75	-1.77	1	1	0	900	900	0
6/10/2024 16:14	52403	GRPA_T2	0	5	5	0	0.3	0.3	0.4	0.42	0	0	0	0	0	0
6/10/2024 16:16	63303	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 16:16	63305	GREE_T1	4	8	4	0.13	0.21	0.08	-1.75	-1.77	1	1	0	900	900	0
6/10/2024 16:20	44601	SALE_T2	0	0	0	0	0	0	2.06	1.98	2	2	0	1200	1200	0
6/10/2024 16:25	44301	BEAV_T2	0	0	0	0	0	0	0.36	0.91	1	1	0	600	600	0
6/10/2024 16:26	64501	LAVI_T1	0	1	1	0	0.1	0.1	-0.18	-0.19	0	0	0	0	0	0
6/10/2024 16:26	46004	BERW_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
6/10/2024 16:27	44505	HAMI_T2	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
6/10/2024 16:27	44502	HAMI_T2	1	1	0	2.5	2.6	0.1	0	0	0	0	0	0	0	0
6/10/2024 16:27	64501	LAVI_T1	0	1	1	0	0.1	0.1	-0.18	-0.19	0	0	0	0	0	0
6/10/2024 16:29	44505	HAMI_T2	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
6/10/2024 16:29	44502	HAMI_T2	1	1	0	2.5	2.6	0.1	0	0	0	0	0	0	0	0
6/10/2024 16:29	41801	GOCI_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/10/2024 16:30	40502	CRES_T2	2	0	-2	0.15	0	-0.15	0.18	0.18	0	0	0	0	0	0
6/10/2024 16:30	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 16:31	52102	MEIS_T1	0	1	1	0	0.3	0.3	0	0	1	1	0	450	450	0
6/10/2024 16:31	41801	GOCI_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/10/2024 16:31	52101	MEIS_T1	2	2	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
6/10/2024 16:32	40901	JESH_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
6/10/2024 16:32	40902	JESH_T1	0	1	1	0	0	0.02	-0.02	-0.04	0	0	0	0	0	0
6/10/2024 16:33	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 16:33	40502	CRES_T2	2	0	-2	0.15	0	-0.15	0.18	0.18	0	0	0	0	0	0
6/10/2024 16:37	60801	BUCK_T1	0	24	24	0	0.16	0.16	0	0	0	0	0	0	0	0
6/10/2024 16:37	60803	BUCK_T1	2	9	7	0.15	0.33	0.18	-0.37	-0.38	1	1	0	600	600	0
6/10/2024 16:38	67801	WLAN_T1	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
6/10/2024 16:41	40802	EXCH_T2	1	1	0	0.2	0.7	0.5	-0.07	-0.17	0	0	0	0	0	0
6/10/2024 16:41	40801	EXCH_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/10/2024 16:42	40603	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 16:42	40602	PIGR_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/10/2024 16:42	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 16:43	56801	BENV_T1	7	7	0	0.99	0.57	-0.42	-0.01	-0.02	1	1	0	600	600	0
6/10/2024 16:44	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
6/10/2024 16:44	26703	HEML_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	600	600	0
6/10/2024 16:46	52102	MEIS_T1	1	1	0	0.3	0.2	-0.1	0	0	1	1	0	450	450	0
6/10/2024 16:46	52101	MEIS_T1	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
6/10/2024 16:48	58402	MORO_T1	0	1	1	0	0	0	-0.7	-1.7	3	5	2	2400	3300	900
6/10/2024 16:48	52102	MEIS_T1	1	0	-1	0.3	0.2	-0.1	0	0	1	1	0	450	450	0
6/10/2024 16:48	52004	LING_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
6/10/2024 16:48	58401	MORO_T1	0	0	0	0	0	0	-1.32	-0.75	2	1	-1	1200	600	-600
6/10/2024 16:48	52101	MEIS_T1	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
6/10/2024 16:49	58402	MORO_T1	0	1	1	0	0	0	-0.7	-1.7	3	5	2	2400	3300	900
6/10/2024 16:49	58006	WCAR_T2	0	0	0	0	0	0	0.49	0.4	0	0	0	0	0	0
6/10/2024 16:50	58402	MORO_T1	0	1	1	0	0	0	-0.7	-1.7	3	5	2	2400	3300	900
6/10/2024 16:50	52102	MEIS_T1	1	1	0	0.3	0.2	-0.1	0	0	1	1	0	450	450	0
6/10/2024 16:50	52101	MEIS_T1	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
6/10/2024 16:50	45802	HEGI_T2	38	2	-36	0.82	0.2	-0.62	-0.05	0.25	1	1	0	900	900	0
6/10/2024 16:51	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 16:51	58401	MORO_T1	0	0	0	0	0	0	-2.64	-1.5	4	2	-2	2400	1200	-1200
6/10/2024 16:52	23001	SAIO_T1	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
6/10/2024 16:52	44201	POIN_T1	3	5	2	0.1	0.1	0	-2.09	-2.07	2	2	0	2100	2100	0
6/10/2024 16:53	44201	POIN_T1	3	5	2	0.1	0.1	0	-2.09	-2.07	2	2	0	2100	2100	0
6/10/2024 16:54	40902	JESH_T1	0	1	1	0	0	0	-0.11	-0.15	0	0	0	0	0	0
6/10/2024 16:54	40901	JESH_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/10/2024 16:54	60802	BUCK_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
6/10/2024 16:55	56801	BENV_T1	7	7	0	0.57	0.43	-0.14	0	0	0	0	0	0	0	0
6/10/2024 16:55	56803	BENV_T1	0	1	1	0	0	0	0.01	0.01	0	0	0	0	0	0
6/10/2024 16:57	58401	MORO_T1	0	0	0	0	0	0	-0.75	-0.72	1	1	0	600	600	0
6/10/2024 16:57	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 16:58	58102	NEKI_T1	0	0	0	0	0	0	0.31	0.55	0	0	0	0	0	0
6/10/2024 17:07	64201	KINZ_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
6/10/2024 17:07	64203	KINZ_T1	0	0	0	0	0	0	0.24	-0.03	1	1	0	600	600	0
6/10/2024 17:07	64204	KINZ_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
6/10/2024 17:08	64201	KINZ_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
6/10/2024 17:08	64204	KINZ_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
6/10/2024 17:08	64203	KINZ_T1	0	0	0	0	0	0	0.24	-0.03	1	1	0	600	600	0
6/10/2024 17:11	61102	BERK_T5	0	0	0	0	0	0	0.16	0.31	1	1	0	300	300	0
6/10/2024 17:14	11104	EGYP_T1	6	6	0	0.8	0.36	-0.44	0	0	0	0	0	0	0	0
6/10/2024 17:14	11103	EGYP_T1	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
6/10/2024 17:15	11104	EGYP_T1	6	5	-1	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
6/10/2024 17:15	11103	EGYP_T1	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
6/10/2024 17:15	52002	LING_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
6/10/2024 17:18	46302	ROHR_T1	4	4	0	2.23	2.13	-0.1	0	0	0	0	0	0	0	0
6/10/2024 17:18	46301	ROHR_T1	30	23	-7	0.14	0.13	-0.01	0.25	0.24	0	0	0	0	0	0
6/10/2024 17:20	46302	ROHR_T1	4	4	0	2.23	2.13	-0.1	0.23	0.23	0	0	0	0	0	0
6/10/2024 17:20	46301	ROHR_T1	30	23	-7	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
6/10/2024 17:21	46302	ROHR_T1	4	4	0	2.23	2.13	-0.1	0.23	0.23	0	0	0	0	0	0
6/10/2024 17:21	46301	ROHR_T1	30	23	-7	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
6/10/2024 17:23	46302	ROHR_T1	4	4	0	2.23	2.13	-0.1	0	0	0	0	0	0	0	0
6/10/2024 17:23	46301	ROHR_T1	30	23	-7	0.14	0.13	-0.01	0.24	0.24	0	0	0	0	0	0
6/10/2024 17:27	50505	MECH_T1	0	0	0	0	0	0	-2.81	-2.78	0	0	0	0	0	0
6/10/2024 17:27	40602	PIGR_T1	1	2	1	0.6	0.6	0	0	0	1	1	0	600	600	0
6/10/2024 17:27	50501	MECH_T1	3	3	0	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/10/2024 17:27	50502	MECH_T1	1	1	0	1.8	2.2	0.4	0	0	0	0	0	0	0	0
6/10/2024 17:29	57103	SPHI_T2	0	1	1	0	0.1	0.1	-2.74	-2.77	1	1	0	600	600	0
6/10/2024 17:29	57104	SPHI_T2	2	2	0	1.1	0.95	-0.15	-1.35	-1.35	1	1	0	900	900	0
6/10/2024 17:29	57106	SPHI_T2	3	3	0	1.4	1.57	0.17	0	0	0	0	0	0	0	0
6/10/2024 17:30	58001	WCAR_T1	4	4	0	1.03	0.75	-0.28	0	0	0	0	0	0	0	0
6/10/2024 17:30	58003	WCAR_T1	7	1	-6	0.37	1.5	1.13	0.96	0.94	0	0	0	0	0	0
6/10/2024 17:31	56601	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 17:31	40602	PIGR_T1	2	1	-1	0.4	0.4	0	0	0	1	1	0	600	600	0
6/10/2024 17:32	12606	MACA_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	900	900	0
6/10/2024 17:34	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 17:36	67103	SPRI_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
6/10/2024 17:37	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 17:38	64501	LAVI_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/10/2024 17:38	64503	LAVI_T1	1	0	-1	0.1	0	-0.1	-1.52	-1.42	1	1	0	1200	1200	0
6/10/2024 17:39	64503	LAVI_T1	1	0	-1	0.1	0	-0.1	-3.03	-2.84	2	2	0	2400	2400	0
6/10/2024 17:39	64501	LAVI_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/10/2024 17:40	67805	WLAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 17:40	67803	WLAN_T1	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
6/10/2024 17:47	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 17:49	65205	PRIN_T1	1	1	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
6/10/2024 17:50	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 17:55	21206	ECAR_T2	1	1	0	7.7	7.7	0	0.08	0.05	0	0	0	0	0	0
6/10/2024 17:55	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 17:55	67505	WEWI_T1	0	0	0	0	0	0	0.28	0.17	1	1	0	900	900	0
6/10/2024 17:56	21206	ECAR_T2	1	1	0	7.7	7.7	0	0.08	0.05	0	0	0	0	0	0
6/10/2024 17:56	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 17:57	21206	ECAR_T2	1	1	0	7.7	7.7	0	0.08	0.05	0	0	0	0	0	0
6/10/2024 17:57	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 17:58	67505	WEWI_T1	0	0	0	0	0	0	0.28	0.17	1	1	0	900	900	0
6/10/2024 18:02	58102	NEKI_T1	1	1	0	0.7	1.1	0.4	0.57	0.6	0	0	0	0	0	0
6/10/2024 18:02	58101	NEKI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 18:03	58006	WCAR_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
6/10/2024 18:03	58002	WCAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 18:04	14403	SSLA_T1	0	0	0	0	0	0	1.09	1.09	0	0	0	0	0	0
6/10/2024 18:04	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 18:04	14404	SSLA_T1	1	1	0	4.8	5.5	0.7	0	0	0	0	0	0	0	0
6/10/2024 18:07	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 18:07	61101	BERK_T5	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
6/10/2024 18:07	14404	SSLA_T1	1	1	0	4.8	5.5	0.7	0.13	0.13	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/10/2024 18:08	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 18:08	14403	SSLA_T1	0	0	0	0	0	0	1.09	1.06	0	0	0	0	0	0
6/10/2024 18:08	14404	SSLA_T1	1	1	0	4.8	5.5	0.7	0	0	0	0	0	0	0	0
6/10/2024 18:11	50502	MECH_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
6/10/2024 18:11	50501	MECH_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/10/2024 18:11	50503	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 18:11	50506	MECH_T1	0	0	0	0	0	0	0.64	0.58	0	0	0	0	0	0
6/10/2024 18:12	53502	EVIL_T2	0	0	0	0	0	0	0.3	0.28	1	1	0	600	600	0
6/10/2024 18:12	53501	EVIL_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
6/10/2024 18:12	61101	BERK_T5	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
6/10/2024 18:15	57104	SPHI_T2	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
6/10/2024 18:15	57101	SPHI_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 18:15	57103	SPHI_T2	0	0	0	0	0	0	-2.66	-2.79	1	1	0	600	600	0
6/10/2024 18:15	57106	SPHI_T2	3	3	0	1.7	1.77	0.07	0	0	0	0	0	0	0	0
6/10/2024 18:15	24802	VALM_T1	0	0	0	0	0	0	1.16	1.14	0	0	0	0	0	0
6/10/2024 18:16	56601	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 18:17	57101	SPHI_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 18:17	57104	SPHI_T2	1	1	0	1.5	1.5	0	-1.35	-1.36	1	1	0	900	900	0
6/10/2024 18:17	57106	SPHI_T2	3	3	0	1.7	1.77	0.07	0	0	0	0	0	0	0	0
6/10/2024 18:18	16402	MOPO_T1	0	0	0	0	0	0	-0.03	0.22	0	0	0	0	0	0
6/10/2024 18:19	16403	MOPO_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/10/2024 18:21	16403	MOPO_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/10/2024 18:25	61103	BERK_T5	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
6/10/2024 18:30	44703	MUNC_T2	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/10/2024 18:30	44701	MUNC_T2	0	0	0	0	0	0	-1.32	-1.33	0	0	0	0	0	0
6/10/2024 18:36	59202	THOM_T1	8	28	20	0.13	0.19	0.06	0	0	0	0	0	0	0	0
6/10/2024 18:36	59201	THOM_T1	1	9	8	0.1	0.14	0.04	0	0	0	0	0	0	0	0
6/10/2024 18:43	67502	WEWI_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
6/10/2024 18:43	67503	WEWI_T2	0	0	0	0	0	0	0.16	0.12	0	0	0	0	0	0
6/10/2024 18:43	12006	HATF_T1	0	0	0	0	0	0	0.6	0.57	1	1	0	1200	1200	0
6/10/2024 18:44	40801	EXCH_T2	3	2	-1	0.33	0.3	-0.03	-0.31	-0.3	1	1	0	1200	1200	0
6/10/2024 18:44	40802	EXCH_T2	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0	0
6/10/2024 18:44	51204	MTON_T2	0	0	0	0	0	0	-0.3	-0.31	1	1	0	600	600	0
6/10/2024 18:45	51204	MTON_T2	0	0	0	0	0	0	-0.3	-0.31	1	1	0	600	600	0
6/10/2024 18:45	24702	FLND_T2	0	0	0	0	0	0	1.12	1.27	0	0	0	0	0	0
6/10/2024 18:48	57101	SPHI_T2	6	6	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/10/2024 18:48	57106	SPHI_T2	3	3	0	1.73	1.8	0.07	0	0	0	0	0	0	0	0
6/10/2024 18:48	57104	SPHI_T2	1	1	0	1.6	1.5	-0.1	-1.4	-1.43	1	1	0	900	900	0
6/10/2024 18:49	65603	QVIL_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
6/10/2024 18:49	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 18:51	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 18:52	52503	PROG_T2	0	0	0	0	0	0	-0.28	-0.35	1	1	0	900	900	0
6/10/2024 18:53	44302	BEAV_T2	0	0	0	0	0	0	0.93	0.92	0	0	0	0	0	0
6/10/2024 18:53	40201	BEGA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/10/2024 18:53	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 18:55	11103	EGYP_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
6/10/2024 18:56	51802	EBEN_T2	2	2	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
6/10/2024 18:56	40201	BEGA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/10/2024 18:56	51804	EBEN_T2	1	0	-1	0.1	0	-0.1	0.37	0.4	1	1	0	900	900	0
6/10/2024 19:01	58202	NEWV_T1	0	0	0	0	0	0	0.62	0.58	0	0	0	0	0	0
6/10/2024 19:01	55002	NEWP_T1	5	5	0	0.96	0.74	-0.22	0	0	0	0	0	0	0	0
6/10/2024 19:01	55001	NEWP_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
6/10/2024 19:02	55001	NEWP_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
6/10/2024 19:02	55002	NEWP_T1	5	5	0	0.96	0.74	-0.22	0	0	0	0	0	0	0	0
6/10/2024 19:03	12601	MACA_T1	0	0	0	0	0	0	1.03	1.01	0	0	0	0	0	0
6/10/2024 19:04	41901	REED_T1	7	9	2	0.13	0.3	0.17	0	0	0	0	0	0	0	0
6/10/2024 19:04	41903	REED_T1	0	0	0	0	0	0	0.26	0.27	1	1	0	1200	1200	0
6/10/2024 19:08	14401	SSLA_T1	2	5	3	0.15	0.22	0.07	-0.28	-0.33	0	0	0	0	0	0
6/10/2024 19:08	14601	SWHI_T1	0	0	0	0	0	0	-0.76	-0.77	0	0	0	0	0	0
6/10/2024 19:08	14404	SSLA_T1	2	2	0	2.25	2.35	0.1	0	0	0	0	0	0	0	0
6/10/2024 19:08	14402	SSLA_T1	2	27	25	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/10/2024 19:12	50501	MECH_T1	4	4	0	0.78	1.3	0.52	-0.86	-0.76	0	0	0	0	0	0
6/10/2024 19:12	50502	MECH_T1	1	1	0	1.4	1.8	0.4	0	0	0	0	0	0	0	0
6/10/2024 19:13	40602	PIGR_T1	1	1	0	0.4	0.3	-0.1	0	0	1	1	0	600	600	0
6/10/2024 19:18	64902	MILL_T2	0	0	0	0	0	0	-0.35	-0.36	1	1	0	900	900	0
6/10/2024 19:18	64903	MILL_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/10/2024 19:18	64701	LITI_T1	0	0	0	0	0	0	0.54	0.5	0	0	0	0	0	0
6/10/2024 19:20	64901	MILL_T1	19	49	30	0.16	0.25	0.09	0	0	0	0	0	0	0	0
6/10/2024 19:20	64904	MILL_T1	1	3	2	0.2	0.27	0.07	-0.01	-0.03	0	0	0	0	0	0
6/10/2024 19:22	67103	SPRI_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
6/10/2024 19:27	53501	EVIL_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
6/10/2024 19:27	53502	EVIL_T2	0	0	0	0	0	0	0.89	0.89	0	0	0	0	0	0
6/10/2024 19:28	58001	WCAR_T1	4	7	3	1.3	0.93	-0.37	0	0	0	0	0	0	0	0
6/10/2024 19:28	58003	WCAR_T1	17	48	31	0.22	0.28	0.06	0.77	0.76	0	0	0	0	0	0
6/10/2024 19:28	22905	HARW_T1	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
6/10/2024 19:28	22901	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 19:32	20603	GRWO_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
6/10/2024 19:51	56501	ROCK_T2	1	1	0	1.1	0	-1.1	0.4	0.39	0	0	0	0	0	0
6/10/2024 19:53	49804	UNIV_T1	0	1	1	0	0.2	0.2	0.77	0.72	0	0	0	0	0	0
6/10/2024 19:53	49803	UNIV_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 19:54	49804	UNIV_T1	0	1	1	0	0.2	0.2	0.77	0.72	0	0	0	0	0	0
6/10/2024 19:54	49803	UNIV_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 20:00	40502	CRES_T2	0	4	4	0	0.2	0.2	0.15	0.15	0	0	0	0	0	0
6/10/2024 20:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 20:04	52504	PROG_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 20:04	52501	PROG_T1	0	0	0	0	0	0	0.75	0.71	1	1	0	300	300	0
6/10/2024 20:04	40502	CRES_T2	0	4	4	0	0.2	0.2	0.15	0.15	0	0	0	0	0	0
6/10/2024 20:04	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 20:07	49804	UNIV_T1	1	1	0	0.2	0.2	0	0.72	0.68	0	0	0	0	0	0
6/10/2024 20:07	49803	UNIV_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 20:07	67502	WEWI_T2	5	0	-5	0.1	0	-0.1	-0.17	-0.19	0	0	0	0	0	0
6/10/2024 20:07	57404	SPAN_T2	0	0	0	0	0	0	0.73	0.71	1	1	0	1200	1200	0
6/10/2024 20:08	67502	WEWI_T2	5	0	-5	0.1	0	-0.1	-0.17	-0.19	0	0	0	0	0	0
6/10/2024 20:15	20603	GRWO_T2	2	8	6	0.1	0.14	0.04	0	0	0	0	0	0	0	0
6/10/2024 20:15	20601	GRWO_T2	0	1	1	0	0	0	-0.18	-0.18	0	0	0	0	0	0
6/10/2024 20:21	52502	PROG_T2	0	0	0	0	0	0	-0.3	-0.32	1	1	0	900	900	0
6/10/2024 20:25	52502	PROG_T2	0	0	0	0	0	0	-0.32	-0.35	1	1	0	900	900	0
6/10/2024 20:26	52502	PROG_T2	0	0	0	0	0	0	-0.65	-0.69	2	2	0	1800	1800	0
6/10/2024 20:30	46801	HEPB_T2	41	36	-5	0.3	0.28	-0.02	0.66	0.65	0	0	0	0	0	0
6/10/2024 20:30	46803	HEPB_T2	18	14	-4	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
6/10/2024 20:32	15702	TANN_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
6/10/2024 20:32	15703	TANN_T2	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
6/10/2024 20:33	46803	HEPB_T2	18	14	-4	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
6/10/2024 20:33	46801	HEPB_T2	41	36	-5	0.3	0.28	-0.02	0.66	0.65	0	0	0	0	0	0
6/10/2024 20:36	12701	MACU_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
6/10/2024 20:37	60605	NCOL_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
6/10/2024 20:37	12701	MACU_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
6/10/2024 20:42	46803	HEPB_T2	18	14	-4	0.24	0.23	-0.01	0.53	0.53	0	0	0	0	0	0
6/10/2024 20:42	46801	HEPB_T2	41	36	-5	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
6/10/2024 20:45	40502	CRES_T2	2	3	1	0.1	0.1	0	0.13	0.13	0	0	0	0	0	0
6/10/2024 20:45	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 20:48	44502	HAMI_T2	1	1	0	3.5	3.4	-0.1	-0.76	-0.77	0	0	0	0	0	0
6/10/2024 20:53	43201	MVIL_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
6/10/2024 20:57	14603	SWHI_T1	0	0	0	0	0	0	-0.87	-0.89	1	1	0	600	600	0
6/10/2024 20:59	53501	EVIL_T2	1	2	1	0.7	0.5	-0.2	-0.99	-1.04	2	2	0	1200	1200	0
6/10/2024 21:01	52503	PROG_T2	0	0	0	0	0	0	-0.47	-0.49	1	1	0	900	900	0
6/10/2024 21:01	53501	EVIL_T2	2	2	0	0.45	0.5	0.05	-0.99	-1.04	2	2	0	1200	1200	0
6/10/2024 21:17	43304	WATS_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
6/10/2024 21:17	43302	WATS_T2	4	4	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
6/10/2024 21:19	45902	AUBU_T1	0	0	0	0	0	0	-0.99	-1	1	1	0	600	600	0
6/10/2024 21:22	13501	MCMI_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
6/10/2024 21:24	54505	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/10/2024 21:24	54504	ENOL_T2	0	0	0	0	0	0	-1.44	-1.66	1	1	0	600	600	0
6/10/2024 21:24	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 21:41	15001	BLMO_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
6/10/2024 21:43	15001	BLMO_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
6/10/2024 21:44	58006	WCAR_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
6/10/2024 21:45	15001	BLMO_T1	0	5	5	0	0.34	0.34	0	0	0	0	0	0	0	0
6/10/2024 21:46	45702	LIND_T2	0	1	1	0	0.5	0.5	-0.52	-0.52	0	0	0	0	0	0
6/10/2024 21:46	61301	EARL_T1	0	0	0	0	0	0	-0.45	-0.45	1	1	0	900	900	0
6/10/2024 21:50	45702	LIND_T2	0	1	1	0	0.5	0.5	-0.52	-0.52	0	0	0	0	0	0
6/10/2024 21:56	43302	WATS_T2	4	4	0	0.53	0.93	0.4	0	0	0	0	0	0	0	0
6/10/2024 21:56	43301	WATS_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
6/10/2024 21:56	40201	BEGA_T2	1	3	2	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
6/10/2024 22:11	13701	SCHN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:11	61801	EELI_T2	1	0	-1	0.1	0	-0.1	-0.77	-0.8	1	1	0	600	600	0
6/10/2024 22:11	13704	SCHN_T2	2	6	4	0.1	0.23	0.13	-0.31	-0.32	0	0	0	0	0	0
6/10/2024 22:12	46001	BERW_T1	0	0	0	0	0	0	1.35	1.32	0	0	0	0	0	0
6/10/2024 22:13	46001	BERW_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
6/10/2024 22:14	63601	LETO_T1	0	0	0	0	0	0	0.75	0.69	2	2	0	2100	2100	0
6/10/2024 22:14	61801	EELI_T2	1	0	-1	0.1	0	-0.1	-0.77	-0.8	1	1	0	600	600	0
6/10/2024 22:14	63602	LETO_T1	0	0	0	0	0	0	-0.22	-0.3	0	0	0	0	0	0
6/10/2024 22:15	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:15	40502	CRES_T2	4	2	-2	0.18	0.1	-0.08	0.11	0.11	0	0	0	0	0	0
6/10/2024 22:15	46001	BERW_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
6/10/2024 22:16	61803	EELI_T2	0	0	0	0	0	0	0.11	0.1	1	1	0	600	600	0
6/10/2024 22:18	12701	MACU_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
6/10/2024 22:19	21206	ECAR_T2	1	1	0	7.9	8	0.1	-0.11	-0.12	0	0	0	0	0	0
6/10/2024 22:19	21204	ECAR_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:19	43802	SWIL_T1	0	0	0	0	0	0	-0.16	-0.17	1	1	0	600	600	0
6/10/2024 22:19	43801	SWIL_T1	41	45	4	0.36	0.37	0.01	0	0	0	0	0	0	0	0
6/10/2024 22:21	12606	MACA_T1	0	0	0	0	0	0	-0.21	-0.23	1	1	0	900	900	0
6/10/2024 22:22	67803	WLAN_T1	0	1	1	0	0.1	0.1	-0.75	-0.77	0	0	0	0	0	0
6/10/2024 22:22	47401	PENS_T1	0	0	0	0	0	0	0.89	0.89	0	0	0	0	0	0
6/10/2024 22:22	67805	WLAN_T1	248	452	204	0.16	0.27	0.11	0	0	0	0	0	0	0	0
6/10/2024 22:22	67801	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:22	67804	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:22	67802	WLAN_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
6/10/2024 22:23	54601	SUMM_T2	1	3	2	0.1	0.2	0.1	-7.08	-7.13	8	8	0	8400	8400	0
6/10/2024 22:24	23202	HIRU_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
6/10/2024 22:24	61101	BERK_T5	0	0	0	0	0	0	-0.77	-0.79	0	0	0	0	0	0
6/10/2024 22:25	64203	KINZ_T1	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
6/10/2024 22:25	64204	KINZ_T1	1	7	6	1.3	0.31	-0.99	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/10/2024 22:25	60305	TWVA_T2	0	0	0	0	0	0	-1.6	-1.6	2	2	0	2400	2400	0
6/10/2024 22:25	64201	KINZ_T1	6	7	1	0.32	0.39	0.07	0	0	0	0	0	0	0	0
6/10/2024 22:25	47203	FAXO_T2	0	0	0	0	0	0	-1.52	-1.53	1	1	0	1200	1200	0
6/10/2024 22:25	64202	KINZ_T1	3	4	1	0.5	0.75	0.25	0	0	0	0	0	0	0	0
6/10/2024 22:26	44701	MUNC_T2	115	302	187	0.18	0.24	0.06	-1.53	-1.54	0	0	0	0	0	0
6/10/2024 22:26	28704	HAML_T2	1	1	0	0.9	1	0.1	0.02	0.02	0	0	0	0	0	0
6/10/2024 22:26	44703	MUNC_T2	2	2	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:26	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
6/10/2024 22:26	44702	MUNC_T2	25	36	11	0.2	0.21	0.01	0	0	0	0	0	0	0	0
6/10/2024 22:26	54601	SUMM_T2	1	3	2	0.1	0.2	0.1	-1.77	-1.78	2	2	0	2100	2100	0
6/10/2024 22:26	17002	RIRO_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
6/10/2024 22:26	28702	HAML_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:26	28703	HAML_T2	3	3	0	0.63	0.67	0.04	0	0	0	0	0	0	0	0
6/10/2024 22:27	53903	HALI_T2	2	2	0	1.1	0.6	-0.5	-0.1	-0.1	0	0	0	0	0	0
6/10/2024 22:27	21206	ECAR_T2	1	1	0	7.9	8	0.1	-0.12	-0.14	0	0	0	0	0	0
6/10/2024 22:27	65503	MOJO_T2	0	0	0	0	0	0	-0.2	-0.3	0	0	0	0	0	0
6/10/2024 22:27	20401	ASHF_T2	2	2	0	0.15	0.15	0	-0.17	-0.24	0	0	0	0	0	0
6/10/2024 22:27	62105	ELAN_T1	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
6/10/2024 22:27	55001	NEWP_T1	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
6/10/2024 22:27	51002	NHAR_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
6/10/2024 22:27	53901	HALI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:27	24702	FLND_T2	0	0	0	0	0	0	0.93	0.93	0	0	0	0	0	0
6/10/2024 22:27	21204	ECAR_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:27	53902	HALI_T2	1	1	0	5	4.5	-0.5	0	0	0	0	0	0	0	0
6/10/2024 22:27	65001	NEFF_T2	0	0	0	0	0	0	-0.79	-0.77	1	1	0	1200	1200	0
6/10/2024 22:27	55002	NEWP_T1	4	5	1	0.55	0.6	0.05	0	0	0	0	0	0	0	0
6/10/2024 22:27	22901	HARW_T1	0	0	0	0	0	0	-0.4	-0.35	1	1	0	1200	1200	0
6/10/2024 22:27	51004	NHAR_T1	1	1	0	6.2	6.4	0.2	-0.59	-0.61	0	0	0	0	0	0
6/10/2024 22:28	43301	WATS_T2	0	1	1	0	0	0	0.32	0.31	0	0	0	0	0	0
6/10/2024 22:28	60803	BUCK_T1	4	12	8	0.15	0.34	0.19	0	0	0	0	0	0	0	0
6/10/2024 22:28	43302	WATS_T2	4	4	0	0.9	1	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:28	22904	HARW_T1	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
6/10/2024 22:28	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.53	-0.49	2	2	0	1800	1800	0
6/10/2024 22:28	60801	BUCK_T1	22	48	26	0.13	0.33	0.2	-0.21	-0.21	0	0	0	0	0	0
6/10/2024 22:29	46504	LOHA_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/10/2024 22:29	43302	WATS_T2	4	4	0	0.9	1	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:29	43301	WATS_T2	0	1	1	0	0	0	0.32	0.31	0	0	0	0	0	0
6/10/2024 22:29	60801	BUCK_T1	22	48	26	0.13	0.33	0.2	-0.21	-0.21	0	0	0	0	0	0
6/10/2024 22:29	64904	MILL_T1	7	29	22	0.17	0.18	0.01	-0.24	-0.3	0	0	0	0	0	0
6/10/2024 22:29	67605	WARW_T1	2	24	22	0.3	0.43	0.13	0	0	0	0	0	0	0	0
6/10/2024 22:29	10801	CHHI_T1	0	0	0	0	0	0	-0.74	-0.19	1	1	0	900	900	0
6/10/2024 22:29	60803	BUCK_T1	4	12	8	0.15	0.34	0.19	-0.48	-0.48	1	1	0	600	600	0
6/10/2024 22:29	64901	MILL_T1	25	67	42	0.13	0.26	0.13	0	0	0	0	0	0	0	0
6/10/2024 22:29	67603	WARW_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
6/10/2024 22:29	46506	LOHA_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/10/2024 22:29	46502	LOHA_T1	0	0	0	0	0	0	-0.04	-0.04	1	1	0	1200	1200	0
6/10/2024 22:29	44201	POIN_T1	143	308	165	0.2	0.26	0.06	-2.32	-2.3	2	2	0	2100	2100	0
6/10/2024 22:29	67503	WEWI_T2	0	0	0	0	0	0	-0.05	-0.2	0	0	0	0	0	0
6/10/2024 22:29	46002	BERW_T2	0	0	0	0	0	0	-0.97	-1.09	1	1	0	900	900	0
6/10/2024 22:30	51303	WIND_T1	8	0	-8	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:30	13302	ORVI_T2	0	0	0	0	0	0	-0.15	-0.22	0	0	0	0	0	0
6/10/2024 22:30	22904	HARW_T1	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
6/10/2024 22:30	51305	WIND_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
6/10/2024 22:30	60502	NMAN_T2	0	0	0	0	0	0	-0.28	-0.34	0	0	0	0	0	0
6/10/2024 22:30	40802	EXCH_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
6/10/2024 22:30	45902	AUBU_T1	0	0	0	0	0	0	-1.07	-0.98	1	1	0	600	600	0
6/10/2024 22:30	66504	SMAN_T2	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
6/10/2024 22:30	13502	MCMI_T1	8	5	-3	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
6/10/2024 22:30	40101	HUNT_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
6/10/2024 22:30	24201	PROV_T3	1	1	0	6.7	6.3	-0.4	-1.38	-1.39	1	1	0	1200	1200	0
6/10/2024 22:30	13501	MCMI_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
6/10/2024 22:30	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:30	26703	HEML_T1	0	0	0	0	0	0	-0.96	-0.97	1	1	0	600	600	0
6/10/2024 22:30	16302	ALPA_T2	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
6/10/2024 22:30	60501	NMAN_T2	3	3	0	4.73	5.03	0.3	0	0	0	0	0	0	0	0
6/10/2024 22:30	67502	WEWI_T2	0	0	0	0	0	0	-0.26	-0.34	0	0	0	0	0	0
6/10/2024 22:30	16402	MOPO_T1	0	0	0	0	0	0	0.05	-0.08	0	0	0	0	0	0
6/10/2024 22:30	13303	ORVI_T1	0	0	0	0	0	0	-0.34	-0.43	0	0	0	0	0	0
6/10/2024 22:30	24204	PROV_T3	1	1	0	6.4	6.1	-0.3	0	0	0	0	0	0	0	0
6/10/2024 22:30	40502	CRES_T2	0	6	6	0	0.12	0.12	0.11	0.11	0	0	0	0	0	0
6/10/2024 22:31	46301	ROHR_T1	70	107	37	0.18	0.19	0.01	0	0	0	0	0	0	0	0
6/10/2024 22:31	65502	MOJO_T2	0	0	0	0	0	0	-1.59	-1.62	1	1	0	900	900	0
6/10/2024 22:31	56802	BENV_T2	1	2	1	0.7	0.7	0	-1.27	-1.28	0	0	0	0	0	0
6/10/2024 22:31	63501	HEID_TBK1-2	28	38	10	0.26	0.65	0.39	-0.37	-0.41	1	1	0	900	900	0
6/10/2024 22:31	46506	LOHA_T1	1	1	0	0.1	0.3	0.2	-0.43	-0.43	0	0	0	0	0	0
6/10/2024 22:31	66504	SMAN_T2	0	0	0	0	0	0	-1.52	-1.65	0	0	0	0	0	0
6/10/2024 22:31	27005	BELL_T1	0	0	0	0	0	0	-1.75	-1.76	0	0	0	0	0	0
6/10/2024 22:31	17802	GILB_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
6/10/2024 22:31	16403	MOPO_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
6/10/2024 22:31	17401	FOHI_T1	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
6/10/2024 22:31	67502	WEWI_T2	0	0	0	0	0	0	-0.26	-0.34	0	0	0	0	0	0
6/10/2024 22:31	52503	PROG_T2	0	0	0	0	0	0	-1.12	-1.15	2	2	0	1800	1800	0
6/10/2024 22:31	52006	LING_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
6/10/2024 22:31	52101	MEIS_T1	2	2	0	1.55	1.65	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:31	46302	ROHR_T1	5	6	1	1.82	1.8	-0.02	0.18	0.17	0	0	0	0	0	0
6/10/2024 22:31	52004	LING_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
6/10/2024 22:31	11103	EGYP_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
6/10/2024 22:31	52102	MEIS_T1	102	97	-5	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
6/10/2024 22:32	45901	AUBU_T1	0	0	0	0	0	0	1.58	1.53	0	0	0	0	0	0
6/10/2024 22:32	67503	WEWI_T2	0	0	0	0	0	0	-0.05	-0.2	0	0	0	0	0	0
6/10/2024 22:32	64201	KINZ_T1	7	3	-4	0.39	0.3	-0.09	-0.23	-0.27	3	3	0	1500	1500	0
6/10/2024 22:32	64204	KINZ_T1	7	1	-6	0.31	1	0.69	0	0	0	0	0	0	0	0
6/10/2024 22:32	66503	SMAN_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
6/10/2024 22:32	47002	HUGH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:32	45902	AUBU_T1	0	0	0	0	0	0	-1.07	-0.98	1	1	0	600	600	0
6/10/2024 22:32	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:32	45501	DERR_T2	1	1	0	0.2	0.4	0.2	-0.53	-0.49	2	2	0	1800	1800	0
6/10/2024 22:32	57401	SPAN_T1	0	0	0	0	0	0	-0.62	-0.59	1	1	0	600	600	0
6/10/2024 22:32	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:32	50502	MECH_T1	1	1	0	1.5	2.1	0.6	0	0	0	0	0	0	0	0
6/10/2024 22:32	49803	UNIV_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:32	15602	NSTR_T2	56	0	-56	0.11	0	-0.11	0	0	0	0	0	0	0	0
6/10/2024 22:32	66504	SMAN_T2	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
6/10/2024 22:32	40502	CRES_T2	0	6	6	0	0.12	0.12	0.11	0.11	0	0	0	0	0	0
6/10/2024 22:32	16102	BING_T2	20	22	2	0.76	0.66	-0.1	0.32	0.31	0	0	0	0	0	0
6/10/2024 22:32	15603	NSTR_T2	12	6	-6	0.19	0.13	-0.06	-0.57	-0.57	0	0	0	0	0	0
6/10/2024 22:32	22905	HARW_T1	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
6/10/2024 22:32	64503	LAVI_T1	0	0	0	0	0	0	-1.8	-1.79	1	1	0	1200	1200	0
6/10/2024 22:32	49804	UNIV_T1	2	0	-2	0.25	0	-0.25	0.69	0.55	0	0	0	0	0	0
6/10/2024 22:32	40602	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	1	1	0	600	600	0
6/10/2024 22:32	50505	MECH_T1	0	0	0	0	0	0	-2.36	-2.33	0	0	0	0	0	0
6/10/2024 22:32	15601	NSTR_T2	45	31	-14	0.21	0.25	0.04	0	0	0	0	0	0	0	0
6/10/2024 22:32	57403	SPAN_T1	0	13	13	0	0.24	0.24	0	0	0	0	0	0	0	0
6/10/2024 22:32	50501	MECH_T1	4	4	0	0.63	1.13	0.5	0	0	0	0	0	0	0	0
6/10/2024 22:32	47001	HUGH_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
6/10/2024 22:32	64202	KINZ_T1	4	3	-1	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
6/10/2024 22:33	46302	ROHR_T1	5	6	1	1.82	1.8	-0.02	0	0	0	0	0	0	0	0
6/10/2024 22:33	66901	SHIL_T2	207	309	102	0.22	0.41	0.19	-0.17	-0.19	0	0	0	0	0	0
6/10/2024 22:33	24204	PROV_T3	1	1	0	6.4	6.1	-0.3	0	0	0	0	0	0	0	0
6/10/2024 22:33	59101	WALK_T2	0	0	0	0	0	0	0.85	1.28	0	0	0	0	0	0
6/10/2024 22:33	60803	BUCK_T1	12	0	-12	0.34	0	-0.34	0	0	0	0	0	0	0	0
6/10/2024 22:33	63305	GREE_T1	0	0	0	0	0	0	-1.08	-1.06	0	0	0	0	0	0
6/10/2024 22:33	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:33	15702	TANN_T2	50	25	-25	0.17	0.14	-0.03	-0.42	-0.43	0	0	0	0	0	0
6/10/2024 22:33	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:33	20403	ASHF_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
6/10/2024 22:33	46301	ROHR_T1	70	107	37	0.18	0.19	0.01	0.21	0.21	0	0	0	0	0	0
6/10/2024 22:33	67502	WEWI_T2	0	0	0	0	0	0	-0.53	-0.68	0	0	0	0	0	0
6/10/2024 22:33	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:33	67503	WEWI_T2	0	0	0	0	0	0	-0.05	-0.2	0	0	0	0	0	0
6/10/2024 22:33	23203	HIRU_T2	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
6/10/2024 22:33	14601	SWHI_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
6/10/2024 22:33	24201	PROV_T3	1	1	0	6.7	6.3	-0.4	-1.38	-1.39	1	1	0	1200	1200	0
6/10/2024 22:33	16401	MOPO_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
6/10/2024 22:33	14802	TREI_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
6/10/2024 22:33	66504	SMAN_T2	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
6/10/2024 22:33	14404	SSLA_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:33	42802	SELI_T1	1	1	0	0.1	0.3	0.2	0.04	0.03	0	0	0	0	0	0
6/10/2024 22:33	20401	ASHF_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
6/10/2024 22:33	66902	SHIL_T2	192	427	235	0.2	0.32	0.12	0	0	0	0	0	0	0	0
6/10/2024 22:33	15703	TANN_T2	5	4	-1	1.08	1.23	0.15	0	0	0	0	0	0	0	0
6/10/2024 22:33	64503	LAVI_T1	0	0	0	0	0	0	-3.6	-3.58	2	2	0	2400	2400	0
6/10/2024 22:33	56801	BENV_T1	5	6	1	0.72	1.65	0.93	-0.44	-0.46	1	1	0	600	600	0
6/10/2024 22:33	14401	SSLA_T1	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
6/10/2024 22:33	66903	SHIL_T2	58	166	108	0.14	0.24	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:33	40502	CRES_T2	0	6	6	0	0.12	0.12	0.55	0.53	0	0	0	0	0	0
6/10/2024 22:33	13301	ORVI_T1	0	0	0	0	0	0	-0.4	-0.42	1	1	0	600	600	0
6/10/2024 22:33	60801	BUCK_T1	48	0	-48	0.33	0	-0.33	-0.21	-0.21	0	0	0	0	0	0
6/10/2024 22:34	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
6/10/2024 22:34	24105	EHAZ_T1	4	4	0	5.98	5.95	-0.03	0	0	0	0	0	0	0	0
6/10/2024 22:34	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:34	24602	VARD_T2	694	834	140	0.79	1.01	0.22	-1.05	-1.06	0	0	0	0	0	0
6/10/2024 22:34	67605	WARW_T1	14	51	37	0.41	0.39	-0.02	-1.12	-1.13	0	0	0	0	0	0
6/10/2024 22:34	47802	MOCA_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
6/10/2024 22:34	67802	WLAN_T1	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
6/10/2024 22:34	56501	ROCK_T2	0	2	2	0	0.6	0.6	-2.3	-2.35	0	0	0	0	0	0
6/10/2024 22:34	64701	LITI_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
6/10/2024 22:34	54502	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/10/2024 22:34	60101	COCA_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
6/10/2024 22:34	16302	ALPA_T2	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
6/10/2024 22:34	44201	POIN_T1	239	337	98	0.26	0.26	0	-2.32	-2.3	2	2	0	2100	2100	0
6/10/2024 22:34	52004	LING_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
6/10/2024 22:34	67801	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/10/2024 22:34	67805	WLAN_T1	452	0	-452	0.27	0	-0.27	-1.3	-1.37	0	0	0	0	0	0
6/10/2024 22:34	11103	EGYP_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
6/10/2024 22:34	41903	REED_T1	0	0	0	0	0	0	-0.16	-0.13	1	1	0	1200	1200	0
6/10/2024 22:34	54501	ENOL_T2	0	0	0	0	0	0	-0.42	-0.43	1	1	0	600	600	0
6/10/2024 22:34	67602	WARW_T2	0	0	0	0	0	0	-0.1	-0.15	2	2	0	1500	1500	0
6/10/2024 22:34	57403	SPAN_T1	0	13	13	0	0.24	0.24	0	0	0	0	0	0	0	0
6/10/2024 22:34	43105	SMIL_T2	2	8	6	0.15	0.15	0	0	0	0	0	0	0	0	0
6/10/2024 22:34	57401	SPAN_T1	0	0	0	0	0	0	-0.62	-0.59	1	1	0	600	600	0
6/10/2024 22:34	49803	UNIV_T1	6	0	-6	0.1	0	-0.1	-1.15	0.12	0	0	0	0	0	0
6/10/2024 22:34	63602	LETO_T1	0	107	107	0	0.25	0.25	-0.3	-0.27	0	0	0	0	0	0
6/10/2024 22:34	43103	SMIL_T2	17	22	5	0.49	0.6	0.11	-0.82	-0.83	0	0	0	0	0	0
6/10/2024 22:34	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:34	54505	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:34	43102	SMIL_T2	6	8	2	0.53	0.63	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:34	56802	BENV_T2	1	2	1	0.7	0.7	0	-2.53	-2.57	0	0	0	0	0	0
6/10/2024 22:34	52006	LING_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
6/10/2024 22:34	58001	WCAR_T1	4	4	0	1.08	1.38	0.3	0	0	0	0	0	0	0	0
6/10/2024 22:34	67501	WEWI_T1	9	0	-9	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:34	24102	EHAZ_T1	0	0	0	0	0	0	0.17	0.06	0	0	0	0	0	0
6/10/2024 22:34	58003	WCAR_T1	1	3	2	1.7	0.7	-1	0.62	0.6	0	0	0	0	0	0
6/10/2024 22:34	67503	WEWI_T2	0	0	0	0	0	0	-0.05	-0.2	0	0	0	0	0	0
6/10/2024 22:34	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
6/10/2024 22:34	67505	WEWI_T1	0	0	0	0	0	0	0	0.01	1	1	0	900	900	0
6/10/2024 22:34	11507	FREE_T2	0	0	0	0	0	0	1.3	1.19	0	0	0	0	0	0
6/10/2024 22:34	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:34	24603	VARD_T2	25	87	62	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
6/10/2024 22:34	49804	UNIV_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/10/2024 22:35	24603	VARD_T2	25	87	62	0.29	0.28	-0.01	-0.17	-0.18	0	0	0	0	0	0
6/10/2024 22:35	53903	HALI_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/10/2024 22:35	25503	MADI_T1	69	26	-43	0.21	0.15	-0.06	-0.97	-0.98	0	0	0	0	0	0
6/10/2024 22:35	60802	BUCK_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
6/10/2024 22:35	53901	HALI_T2	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
6/10/2024 22:35	43302	WATS_T2	4	4	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
6/10/2024 22:35	67605	WARW_T1	14	51	37	0.41	0.39	-0.02	-1.12	-1.13	0	0	0	0	0	0
6/10/2024 22:35	57403	SPAN_T1	0	13	13	0	0.24	0.24	0	0	0	0	0	0	0	0
6/10/2024 22:35	42902	MIDD_T2	0	0	0	0	0	0	-1.02	-1.05	1	1	0	600	600	0
6/10/2024 22:35	12606	MACA_T1	0	0	0	0	0	0	-0.21	-0.23	1	1	0	900	900	0
6/10/2024 22:35	45002	LIME_2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
6/10/2024 22:35	44702	MUNC_T2	36	0	-36	0.21	0	-0.21	0	0	0	0	0	0	0	0
6/10/2024 22:35	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/10/2024 22:35	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
6/10/2024 22:35	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:35	53902	HALI_T2	1	1	0	4.2	4.5	0.3	0	0	0	0	0	0	0	0
6/10/2024 22:35	24801	VALM_T1	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
6/10/2024 22:35	60201	ATGL_T2	0	0	0	0	0	0	0.92	0.79	0	0	0	0	0	0
6/10/2024 22:35	64101	REFR_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
6/10/2024 22:35	11103	EGYP_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
6/10/2024 22:35	45902	AUBU_T1	0	0	0	0	0	0	-1.07	-0.98	1	1	0	600	600	0
6/10/2024 22:35	45001	LIME_2	17	24	7	0.19	0.21	0.02	0	0	0	0	0	0	0	0
6/10/2024 22:35	56501	ROCK_T2	0	2	2	0	0.6	0.6	-3.45	-3.53	0	0	0	0	0	0
6/10/2024 22:35	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
6/10/2024 22:35	16302	ALPA_T2	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
6/10/2024 22:35	45004	LIME_2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/10/2024 22:35	60803	BUCK_T1	12	0	-12	0.34	0	-0.34	0	0	0	0	0	0	0	0
6/10/2024 22:35	57401	SPAN_T1	0	0	0	0	0	0	-0.62	-0.59	1	1	0	600	600	0
6/10/2024 22:35	42903	MIDD_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:35	24602	VARD_T2	694	834	140	0.79	1.01	0.22	0	0	0	0	0	0	0	0
6/10/2024 22:35	43301	WATS_T2	0	1	1	0	0	0	0.32	0.31	0	0	0	0	0	0
6/10/2024 22:35	10805	CHHI_T2	1	1	0	7.6	7.9	0.3	-0.78	-0.81	1	1	0	600	600	0
6/10/2024 22:35	44701	MUNC_T2	302	1	-301	0.24	0.1	-0.14	0	0	0	0	0	0	0	0
6/10/2024 22:35	60801	BUCK_T1	48	0	-48	0.33	0	-0.33	-0.21	-0.21	0	0	0	0	0	0
6/10/2024 22:35	44703	MUNC_T2	2	2	0	1.4	0.55	-0.85	0.66	0.64	0	0	0	0	0	0
6/10/2024 22:35	45003	LIME_2	2	2	0	2.95	2.9	-0.05	0.24	0.23	0	0	0	0	0	0
6/10/2024 22:36	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:36	14403	SSLA_T1	0	0	0	0	0	0	0.73	0.7	0	0	0	0	0	0
6/10/2024 22:36	63306	GREE_T1	0	0	0	0	0	0	-1.1	-1.11	0	0	0	0	0	0
6/10/2024 22:36	58003	WCAR_T1	1	3	2	1.7	0.7	-1	0.62	0.6	0	0	0	0	0	0
6/10/2024 22:36	14404	SSLA_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:36	45003	LIME_2	2	2	0	2.95	2.9	-0.05	0	0	0	0	0	0	0	0
6/10/2024 22:36	45004	LIME_2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/10/2024 22:36	67801	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:36	63804	HEMP_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:36	53502	EVIL_T2	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
6/10/2024 22:36	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:36	45001	LIME_2	17	24	7	0.19	0.21	0.02	0	0	0	0	0	0	0	0
6/10/2024 22:36	40502	CRES_T2	0	6	6	0	0.12	0.12	0.22	0.21	0	0	0	0	0	0
6/10/2024 22:36	40801	EXCH_T2	0	0	0	0	0	0	-0.48	-0.51	1	1	0	1200	1200	0
6/10/2024 22:36	67805	WLAN_T1	452	0	-452	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/10/2024 22:36	67602	WARW_T2	0	0	0	0	0	0	-0.15	-0.2	2	2	0	1500	1500	0
6/10/2024 22:36	46206	DANV_T2	0	0	0	0	0	0	3.25	3.21	1	1	0	1200	1200	0
6/10/2024 22:36	45801	HEGI_T1	0	0	0	0	0	0	-0.14	-0.15	1	1	0	900	900	0
6/10/2024 22:36	58001	WCAR_T1	4	4	0	1.08	1.38	0.3	0	0	0	0	0	0	0	0
6/10/2024 22:36	45002	LIME_2	1	1	0	6.2	6.2	0	0.54	0.53	0	0	0	0	0	0
6/10/2024 22:36	67802	WLAN_T1	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
6/10/2024 22:36	53501	EVIL_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
6/10/2024 22:36	61103	BERK_T5	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
6/10/2024 22:36	63802	HEMP_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
6/10/2024 22:36	52503	PROG_T2	0	0	0	0	0	0	-0.56	-0.58	1	1	0	900	900	0
6/10/2024 22:36	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:36	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.77	-0.78	0	0	0	0	0	0
6/10/2024 22:36	60102	COCA_T1	0	0	0	0	0	0	0.73	0.6	2	2	0	1200	1200	0
6/10/2024 22:37	12807	MICK_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/10/2024 22:37	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:37	40502	CRES_T2	0	6	6	0	0.12	0.12	0.11	0.1	0	0	0	0	0	0
6/10/2024 22:37	43301	WATS_T2	0	1	1	0	0	0	0.31	0.3	0	0	0	0	0	0
6/10/2024 22:37	47001	HUGH_T2	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
6/10/2024 22:37	46301	ROHR_T1	70	107	37	0.18	0.19	0.01	0.21	0.21	0	0	0	0	0	0
6/10/2024 22:37	12803	MICK_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/10/2024 22:37	14404	SSLA_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:37	51302	WIND_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/10/2024 22:37	56501	ROCK_T2	0	2	2	0	0.6	0.6	-1.18	-1.21	0	0	0	0	0	0
6/10/2024 22:37	47002	HUGH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:37	57101	SPHI_T2	6	6	0	0.15	0.65	0.5	0	0	0	0	0	0	0	0
6/10/2024 22:37	51304	WIND_T2	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
6/10/2024 22:37	57106	SPHI_T2	3	3	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:37	12801	MICK_T1	0	0	0	0	0	0	-1.07	-1.09	1	1	0	600	600	0
6/10/2024 22:37	45501	DERR_T2	1	1	0	0.2	0.4	0.2	-0.49	-0.47	2	2	0	1800	1800	0
6/10/2024 22:37	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:37	55002	NEWP_T1	4	5	1	0.35	0.8	0.45	-0.27	-0.27	0	0	0	0	0	0
6/10/2024 22:37	60201	ATGL_T2	0	0	0	0	0	0	0.39	0.32	0	0	0	0	0	0
6/10/2024 22:37	43302	WATS_T2	4	4	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
6/10/2024 22:37	14204	EALL_T2	0	0	0	0	0	0	-0.21	-0.15	0	0	0	0	0	0
6/10/2024 22:37	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
6/10/2024 22:37	57104	SPHI_T2	2	2	0	4.5	2.1	-2.4	-0.96	-0.98	0	0	0	0	0	0
6/10/2024 22:37	67503	WEWI_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
6/10/2024 22:37	64902	MILL_T2	0	0	0	0	0	0	-1.02	-1.04	2	2	0	1800	1800	0
6/10/2024 22:37	14401	SSLA_T1	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
6/10/2024 22:37	45902	AUBU_T1	0	0	0	0	0	0	-0.98	-0.97	1	1	0	600	600	0
6/10/2024 22:37	10205	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:37	67502	WEWI_T2	0	0	0	0	0	0	-0.34	-0.38	0	0	0	0	0	0
6/10/2024 22:37	63501	HEID_TBK1-2	28	38	10	0.26	0.65	0.39	-0.41	-0.44	1	1	0	900	900	0
6/10/2024 22:37	46302	ROHR_T1	5	6	1	1.82	1.8	-0.02	0	0	0	0	0	0	0	0
6/10/2024 22:37	10105	ALLE_T3	7	3	-4	0.64	0.63	-0.01	0	0	0	0	0	0	0	0
6/10/2024 22:38	58001	WCAR_T1	4	4	0	1.08	1.38	0.3	0	0	0	0	0	0	0	0
6/10/2024 22:38	63401	HONY_T1	0	0	0	0	0	0	0.84	0.79	0	0	0	0	0	0
6/10/2024 22:38	60502	NMAN_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
6/10/2024 22:38	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.77	-0.78	0	0	0	0	0	0
6/10/2024 22:38	67805	WLAN_T1	452	0	-452	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/10/2024 22:38	16103	BING_T2	0	0	0	0	0	0	-1.47	-1.5	1	1	0	900	900	0
6/10/2024 22:38	65205	PRIN_T1	1	1	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
6/10/2024 22:38	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:38	64501	LAVI_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
6/10/2024 22:38	12807	MICK_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/10/2024 22:38	40602	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	3	3	0	1800	1800	0
6/10/2024 22:38	60801	BUCK_T1	48	0	-48	0.33	0	-0.33	0	0	0	0	0	0	0	0
6/10/2024 22:38	67502	WEWI_T2	0	0	0	0	0	0	-0.34	-0.38	0	0	0	0	0	0
6/10/2024 22:38	14404	SSLA_T1	1	1	0	5.7	5.8	0.1	0.06	0.05	0	0	0	0	0	0
6/10/2024 22:38	12801	MICK_T1	0	0	0	0	0	0	-1.07	-1.09	1	1	0	600	600	0
6/10/2024 22:38	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
6/10/2024 22:38	60803	BUCK_T1	12	0	-12	0.34	0	-0.34	-0.48	-0.49	1	1	0	600	600	0
6/10/2024 22:38	52503	PROG_T2	0	0	0	0	0	0	-0.58	-0.59	1	1	0	900	900	0
6/10/2024 22:38	67401	WAKE_T2	28	0	-28	0.16	0	-0.16	0	0	0	0	0	0	0	0
6/10/2024 22:38	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
6/10/2024 22:38	60501	NMAN_T2	3	3	0	4.73	5.03	0.3	0	0	0	0	0	0	0	0
6/10/2024 22:38	14801	TREI_T2	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
6/10/2024 22:38	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:38	16102	BING_T2	20	22	2	0.76	0.66	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:38	52004	LING_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
6/10/2024 22:38	12803	MICK_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/10/2024 22:38	40802	EXCH_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
6/10/2024 22:38	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:38	67303	WYOM_T2	0	0	0	0	0	0	-1.47	-1.57	0	0	0	0	0	0
6/10/2024 22:38	40502	CRES_T2	0	6	6	0	0.12	0.12	0.21	0.21	0	0	0	0	0	0
6/10/2024 22:38	52006	LING_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
6/10/2024 22:38	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
6/10/2024 22:38	67802	WLAN_T1	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
6/10/2024 22:38	56802	BENV_T2	1	2	1	0.7	0.7	0	-1.28	-1.3	0	0	0	0	0	0
6/10/2024 22:38	58003	WCAR_T1	1	3	2	1.7	0.7	-1	0.6	0.59	0	0	0	0	0	0
6/10/2024 22:38	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:38	67801	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:38	14203	EALL_T1	0	0	0	0	0	0	-0.26	-0.25	1	1	0	1200	1200	0
6/10/2024 22:39	45003	LIME_2	2	2	0	2.95	2.9	-0.05	0.23	0.22	0	0	0	0	0	0
6/10/2024 22:39	57302	MOAL_T2	0	0	0	0	0	0	-1.52	-1.53	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/10/2024 22:39	12002	HATF_T1	0	0	0	0	0	0	-0.9	-0.86	0	0	0	0	0	0
6/10/2024 22:39	67505	WEWI_T1	0	0	0	0	0	0	0.01	-0.01	1	1	0	900	900	0
6/10/2024 22:39	45001	LIME_2	17	24	7	0.19	0.21	0.02	0	0	0	0	0	0	0	0
6/10/2024 22:39	42902	MIDD_T2	0	0	0	0	0	0	-1.05	-1.06	1	1	0	600	600	0
6/10/2024 22:39	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:39	67503	WEWI_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
6/10/2024 22:39	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
6/10/2024 22:39	14802	TREI_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
6/10/2024 22:39	16504	STRO_T1	0	0	0	0	0	0	0.25	0.23	1	1	0	1200	1200	0
6/10/2024 22:39	59003	MIFF_T1	0	0	0	0	0	0	0.64	0.49	0	0	0	0	0	0
6/10/2024 22:39	24902	WHHA_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
6/10/2024 22:39	63304	GREE_T1	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
6/10/2024 22:39	67802	WLAN_T1	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
6/10/2024 22:39	56801	BENV_T1	5	6	1	0.72	1.65	0.93	-0.46	-0.49	1	1	0	600	600	0
6/10/2024 22:39	59101	WALK_T2	0	0	0	0	0	0	1.28	1.28	0	0	0	0	0	0
6/10/2024 22:39	51101	CARL_T1	1	1	0	5.3	5.1	-0.2	-1.46	-1.47	1	1	0	600	600	0
6/10/2024 22:39	45004	LIME_2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/10/2024 22:39	65503	MOJO_T2	0	0	0	0	0	0	-0.3	-0.23	0	0	0	0	0	0
6/10/2024 22:39	51102	CARL_T1	3	60	57	0.13	0.15	0.02	0	0	0	0	0	0	0	0
6/10/2024 22:39	40902	JESH_T1	14	0	-14	0.11	0	-0.11	-0.77	-0.79	0	0	0	0	0	0
6/10/2024 22:39	55002	NEWP_T1	4	5	1	0.35	0.8	0.45	-0.27	-0.27	0	0	0	0	0	0
6/10/2024 22:39	67502	WEWI_T2	0	0	0	0	0	0	-0.34	-0.38	0	0	0	0	0	0
6/10/2024 22:39	45002	LIME_2	1	0	-1	6.2	6.2	0	0	0	0	0	0	0	0	0
6/10/2024 22:39	12006	HATF_T1	0	0	0	0	0	0	-0.15	-0.21	1	1	0	1200	1200	0
6/10/2024 22:39	42903	MIDD_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:39	67801	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:39	57304	MOAL_T2	1	4	3	0.2	0.28	0.08	0	0	0	0	0	0	0	0
6/10/2024 22:39	57303	MOAL_T2	1	1	0	7.9	7.4	-0.5	0	0	0	0	0	0	0	0
6/10/2024 22:39	42201	SHEN_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
6/10/2024 22:39	57401	SPAN_T1	0	0	0	0	0	0	-0.59	-0.66	1	1	0	600	600	0
6/10/2024 22:39	67602	WARW_T2	0	0	0	0	0	0	-0.15	-0.2	2	2	0	1500	1500	0
6/10/2024 22:39	56802	BENV_T2	1	2	1	0.7	0.7	0	-2.57	-2.6	0	0	0	0	0	0
6/10/2024 22:39	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.77	-0.78	0	0	0	0	0	0
6/10/2024 22:39	46004	BERW_T2	0	0	0	0	0	0	0.01	-0.02	0	0	0	0	0	0
6/10/2024 22:39	64501	LAVI_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
6/10/2024 22:39	67805	WLAN_T1	452	0	-452	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/10/2024 22:39	53302	GRAT_T2	19	19	0	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
6/10/2024 22:39	67501	WEWI_T1	9	0	-9	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:39	57403	SPAN_T1	0	13	13	0	0.24	0.24	0.06	0.05	0	0	0	0	0	0
6/10/2024 22:39	59002	MIFF_T1	0	6	6	0	0.4	0.4	0	0	0	0	0	0	0	0
6/10/2024 22:40	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
6/10/2024 22:40	67805	WLAN_T1	452	0	-452	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/10/2024 22:40	20403	ASHF_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
6/10/2024 22:40	63306	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:40	67801	WLAN_T1	1	0	-1	0.1	0	-0.1	0.14	0.12	0	0	0	0	0	0
6/10/2024 22:40	10901	COOP_T2	0	0	0	0	0	0	0.8	0.78	0	0	0	0	0	0
6/10/2024 22:40	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:40	15204	SFAR_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
6/10/2024 22:40	58003	WCAR_T1	1	3	2	1.7	0.7	-1	0.6	0.59	0	0	0	0	0	0
6/10/2024 22:40	13704	SCHN_T2	6	6	0	0.23	0.2	-0.03	-0.32	-0.33	0	0	0	0	0	0
6/10/2024 22:40	45004	LIME_2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/10/2024 22:40	40502	CRES_T2	0	6	6	0	0.12	0.12	0.11	0.1	0	0	0	0	0	0
6/10/2024 22:40	45001	LIME_2	17	24	7	0.19	0.21	0.02	0	0	0	0	0	0	0	0
6/10/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
6/10/2024 22:40	57401	SPAN_T1	0	0	0	0	0	0	-0.59	-0.66	1	1	0	600	600	0
6/10/2024 22:40	56801	BENV_T1	5	6	1	0.72	1.65	0.93	-0.93	-0.97	2	2	0	1200	1200	0
6/10/2024 22:40	57403	SPAN_T1	0	13	13	0	0.24	0.24	0.06	0.05	0	0	0	0	0	0
6/10/2024 22:40	17901	BART_T1	0	0	0	0	0	0	-0.18	-0.17	1	1	0	1200	1200	0
6/10/2024 22:40	67802	WLAN_T1	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
6/10/2024 22:40	20401	ASHF_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
6/10/2024 22:40	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:40	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:40	56501	ROCK_T2	0	2	2	0	0.6	0.6	-1.18	-1.21	0	0	0	0	0	0
6/10/2024 22:40	66902	SHIL_T2	192	427	235	0.2	0.32	0.12	0	0	0	0	0	0	0	0
6/10/2024 22:40	58001	WCAR_T1	4	4	0	1.08	1.38	0.3	0	0	0	0	0	0	0	0
6/10/2024 22:40	43304	WATS_T2	0	0	0	0	0	0	-0.48	-0.53	0	0	0	0	0	0
6/10/2024 22:40	13701	SCHN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:40	66901	SHIL_T2	207	309	102	0.22	0.41	0.19	0	0	0	0	0	0	0	0
6/10/2024 22:40	45002	LIME_2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
6/10/2024 22:40	67401	WAKE_T2	28	0	-28	0.16	0	-0.16	0	0	0	0	0	0	0	0
6/10/2024 22:40	62601	ENGL_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
6/10/2024 22:40	54601	SUMM_T2	1	4	3	0.2	0.28	0.08	-1.78	-1.83	2	2	0	2100	2100	0
6/10/2024 22:40	43302	WATS_T2	4	4	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
6/10/2024 22:40	66903	SHIL_T2	58	166	108	0.14	0.24	0.1	-0.81	-0.82	0	0	0	0	0	0
6/10/2024 22:40	10903	COOP_T2	2	96	94	0.1	0.22	0.12	0	0	0	0	0	0	0	0
6/10/2024 22:40	67505	WEWI_T1	0	0	0	0	0	0	0.01	-0.01	1	1	0	900	900	0
6/10/2024 22:40	28403	HART_T2	0	0	0	0	0	0	-0.83	-0.83	1	1	0	900	900	0
6/10/2024 22:40	40602	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	1	1	0	600	600	0
6/10/2024 22:40	56601	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:40	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:40	67103	SPRI_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
6/10/2024 22:40	67501	WEWI_T1	9	0	-9	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:40	45003	LIME_2	2	2	0	2.95	2.9	-0.05	0.23	0.22	0	0	0	0	0	0
6/10/2024 22:40	14404	SSLA_T1	1	1	0	5.7	5.8	0.1	0.06	0.05	0	0	0	0	0	0
6/10/2024 22:40	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:40	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.03	0	0	0	0	0	0
6/10/2024 22:40	15203	SFAR_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:40	63305	GREE_T1	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
6/10/2024 22:40	67203	TEHI_T1	0	0	0	0	0	0	2.14	2.11	2	2	0	1500	1500	0
6/10/2024 22:40	13302	ORVI_T2	0	0	0	0	0	0	-0.22	-0.18	0	0	0	0	0	0
6/10/2024 22:41	43102	SMIL_T2	6	8	2	0.53	0.63	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:41	67805	WLAN_T1	452	0	-452	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/10/2024 22:41	60502	NMAN_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
6/10/2024 22:41	44505	HAMI_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
6/10/2024 22:41	67802	WLAN_T1	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
6/10/2024 22:41	62105	ELAN_T1	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
6/10/2024 22:41	20603	GRWO_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
6/10/2024 22:41	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:41	56801	BENV_T1	5	6	1	0.72	1.65	0.93	-0.46	-0.49	1	1	0	600	600	0
6/10/2024 22:41	43103	SMIL_T2	17	22	5	0.49	0.6	0.11	0	0	0	0	0	0	0	0
6/10/2024 22:41	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.77	-0.78	0	0	0	0	0	0
6/10/2024 22:41	16301	ALPA_T1	39	112	73	0.16	0.18	0.02	-0.25	-0.26	0	0	0	0	0	0
6/10/2024 22:41	24702	FLND_T2	0	0	0	0	0	0	0.93	1.07	0	0	0	0	0	0
6/10/2024 22:41	43108	SMIL_T2	0	0	0	0	0	0	-1.04	-1.05	1	1	0	1200	1200	0
6/10/2024 22:41	56802	BENV_T2	1	2	1	0.7	0.7	0	-1.28	-1.3	0	0	0	0	0	0
6/10/2024 22:41	40502	CRES_T2	0	6	6	0	0.12	0.12	0.21	0.21	0	0	0	0	0	0
6/10/2024 22:41	24104	EHAZ_T1	0	0	0	0	0	0	-0.98	-0.98	1	1	0	1200	1200	0
6/10/2024 22:41	10801	CHHI_T1	0	0	0	0	0	0	-0.19	-0.84	1	1	0	900	900	0
6/10/2024 22:41	60803	BUCK_T1	12	0	-12	0.34	0	-0.34	0	0	0	0	0	0	0	0
6/10/2024 22:41	67605	WARW_T1	14	51	37	0.41	0.39	-0.02	-1.13	-1.14	0	0	0	0	0	0
6/10/2024 22:41	24105	EHAZ_T1	4	4	0	5.98	5.95	-0.03	0	0	0	0	0	0	0	0
6/10/2024 22:41	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
6/10/2024 22:41	43101	SMIL_T2	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
6/10/2024 22:41	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.03	0	0	0	0	0	0
6/10/2024 22:41	67602	WARW_T2	0	0	0	0	0	0	-0.15	-0.2	2	2	0	1500	1500	0
6/10/2024 22:41	67801	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:41	17901	BART_T1	0	0	0	0	0	0	-0.18	-0.17	1	1	0	1200	1200	0
6/10/2024 22:41	57205	ROSS_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
6/10/2024 22:41	14404	SSLA_T1	1	1	0	5.7	5.8	0.1	0.06	0.05	0	0	0	0	0	0
6/10/2024 22:41	14802	TREI_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
6/10/2024 22:41	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:41	44502	HAMI_T2	1	1	0	3.7	3.6	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:41	45902	AUBU_T1	0	0	0	0	0	0	-0.98	-0.97	1	1	0	600	600	0
6/10/2024 22:41	52402	GRPA_T2	4	4	0	0.43	0.83	0.4	-0.72	-0.73	0	0	0	0	0	0
6/10/2024 22:41	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/10/2024 22:41	43105	SMIL_T2	2	8	6	0.15	0.15	0	0	0	0	0	0	0	0	0
6/10/2024 22:41	12606	MACA_T1	0	0	0	0	0	0	-0.23	-0.25	1	1	0	900	900	0
6/10/2024 22:41	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:41	20601	GRWO_T2	2	10	8	0.1	0.16	0.06	0	0	0	0	0	0	0	0
6/10/2024 22:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:41	60501	NMAN_T2	3	3	0	4.73	5.03	0.3	0	0	0	0	0	0	0	0
6/10/2024 22:41	60801	BUCK_T1	48	0	-48	0.33	0	-0.33	-0.21	-0.22	0	0	0	0	0	0
6/10/2024 22:41	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:41	63401	HONY_T1	0	0	0	0	0	0	1.68	1.59	0	0	0	0	0	0
6/10/2024 22:42	43103	SMIL_T2	17	22	5	0.49	0.6	0.11	-0.83	-0.84	0	0	0	0	0	0
6/10/2024 22:42	45002	LIME_2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
6/10/2024 22:42	52402	GRPA_T2	4	4	0	0.43	0.83	0.4	0	0	0	0	0	0	0	0
6/10/2024 22:42	45501	DERR_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:42	45004	LIME_2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/10/2024 22:42	43105	SMIL_T2	2	8	6	0.15	0.15	0	0	0	0	0	0	0	0	0
6/10/2024 22:42	60201	ATGL_T2	0	0	0	0	0	0	0.39	0.32	0	0	0	0	0	0
6/10/2024 22:42	43102	SMIL_T2	6	8	2	0.53	0.63	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:42	15703	TANN_T2	5	4	-1	1.08	1.23	0.15	0	0	0	0	0	0	0	0
6/10/2024 22:42	67401	WAKE_T2	28	0	-28	0.16	0	-0.16	-0.88	-0.9	0	0	0	0	0	0
6/10/2024 22:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:42	56801	BENV_T1	5	6	1	0.72	1.65	0.93	0	0	0	0	0	0	0	0
6/10/2024 22:42	52403	GRPA_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
6/10/2024 22:42	61801	EELI_T2	0	0	0	0	0	0	-1.64	-1.69	2	2	0	1200	1200	0
6/10/2024 22:42	44301	BEAV_T2	0	0	0	0	0	0	0.6	0.69	1	1	0	600	600	0
6/10/2024 22:42	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/10/2024 22:42	45003	LIME_2	2	2	0	2.95	2.9	-0.05	0.23	0.22	0	0	0	0	0	0
6/10/2024 22:42	16202	POPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:42	45001	LIME_2	17	24	7	0.19	0.21	0.02	0	0	0	0	0	0	0	0
6/10/2024 22:42	56803	BENV_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
6/10/2024 22:42	52401	GRPA_T2	0	1	1	0	0.2	0.2	-0.35	-0.35	0	0	0	0	0	0
6/10/2024 22:42	53601	DALM_T2	1	1	0	0.5	0.6	0.1	0.57	0.56	0	0	0	0	0	0
6/10/2024 22:42	45502	DERR_T2	0	1	1	0	0.1	0.1	-0.58	-0.58	0	0	0	0	0	0
6/10/2024 22:42	42802	SELI_T1	1	1	0	0.1	0.3	0.2	0.03	0.03	0	0	0	0	0	0
6/10/2024 22:42	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:42	66503	SMAN_T2	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
6/10/2024 22:42	15702	TANN_T2	50	25	-25	0.17	0.14	-0.03	-0.43	-0.44	0	0	0	0	0	0
6/10/2024 22:42	40502	CRES_T2	0	6	6	0	0.12	0.12	0.11	0.1	0	0	0	0	0	0
6/10/2024 22:43	64801	MONE_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/10/2024 22:43	65604	QVIL_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
6/10/2024 22:43	52402	GRPA_T2	4	4	0	0.43	0.83	0.4	-0.72	-0.73	0	0	0	0	0	0
6/10/2024 22:43	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
6/10/2024 22:43	42903	MIDD_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:43	40502	CRES_T2	0	6	6	0	0.12	0.12	0.32	0.31	0	0	0	0	0	0
6/10/2024 22:43	17804	GILB_T2	36	14	-22	0.19	0.14	-0.05	-0.57	-0.58	0	0	0	0	0	0
6/10/2024 22:43	67201	TEHI_T1	0	0	0	0	0	0	-0.86	-0.86	2	2	0	1500	1500	0
6/10/2024 22:43	12601	MACA_T1	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
6/10/2024 22:43	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:43	67602	WARW_T2	0	0	0	0	0	0	-0.15	-0.2	2	2	0	1500	1500	0
6/10/2024 22:43	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:43	23203	HIRU_T2	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
6/10/2024 22:43	59101	WALK_T2	0	0	0	0	0	0	1.28	1.28	0	0	0	0	0	0
6/10/2024 22:43	14401	SSLA_T1	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
6/10/2024 22:43	40602	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	2	2	0	1200	1200	0
6/10/2024 22:43	64802	MONE_T2	1	0	-1	0.1	0	-0.1	0.31	0.3	0	0	0	0	0	0
6/10/2024 22:43	10805	CHHI_T2	1	1	0	7.6	7.9	0.3	-0.81	-0.72	1	1	0	600	600	0
6/10/2024 22:43	53903	HALI_T2	2	2	0	0.5	0.8	0.3	-0.2	-0.21	0	0	0	0	0	0
6/10/2024 22:43	42902	MIDD_T2	0	0	0	0	0	0	-1.05	-1.06	1	1	0	600	600	0
6/10/2024 22:43	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
6/10/2024 22:43	64503	LAVI_T1	0	0	0	0	0	0	-1.79	-1.87	1	1	0	1200	1200	0
6/10/2024 22:43	53902	HALI_T2	1	1	0	4.2	4.5	0.3	0	0	0	0	0	0	0	0
6/10/2024 22:43	67401	WAKE_T2	28	0	-28	0.16	0	-0.16	-0.88	-0.9	0	0	0	0	0	0
6/10/2024 22:43	14404	SSLA_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:43	23001	SAJO_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
6/10/2024 22:43	67501	WEWI_T1	9	0	-9	0.1	0	-0.1	-1.16	-1.17	1	1	0	600	600	0
6/10/2024 22:43	57401	SPAN_T1	0	0	0	0	0	0	-0.59	-0.66	1	1	0	600	600	0
6/10/2024 22:43	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/10/2024 22:43	46506	LOHA_T1	1	1	0	0.1	0.3	0.2	-0.43	-0.44	0	0	0	0	0	0
6/10/2024 22:43	57403	SPAN_T1	0	13	13	0	0.24	0.24	0	0	0	0	0	0	0	0
6/10/2024 22:43	16403	MOPO_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
6/10/2024 22:43	65601	QVIL_T2	7	0	-7	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:43	17803	GILB_T2	39	0	-39	0.29	0	-0.29	0	0	0	0	0	0	0	0
6/10/2024 22:44	13704	SCHN_T2	6	6	0	0.23	0.2	-0.03	-0.32	-0.33	0	0	0	0	0	0
6/10/2024 22:44	44302	BEAV_T2	0	0	0	0	0	0	0.95	0.97	0	0	0	0	0	0
6/10/2024 22:44	44201	POIN_T1	239	337	98	0.26	0.26	0	-2.3	-2.31	2	2	0	2100	2100	0
6/10/2024 22:44	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:44	44301	BEAV_T2	0	0	0	0	0	0	0.6	0.69	1	1	0	600	600	0
6/10/2024 22:44	50506	MECH_T1	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
6/10/2024 22:44	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/10/2024 22:44	43801	SWIL_T1	45	2	-43	0.37	3.25	2.88	0	0	0	0	0	0	0	0
6/10/2024 22:44	60201	ATGL_T2	0	0	0	0	0	0	0.39	0.32	0	0	0	0	0	0
6/10/2024 22:44	51604	DUKE_T2	0	0	0	0	0	0	-1.24	-1.26	1	1	0	900	900	0
6/10/2024 22:44	52102	MEIS_T1	102	97	-5	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
6/10/2024 22:44	55002	NEWP_T1	4	5	1	0.35	0.8	0.45	-0.27	-0.27	0	0	0	0	0	0
6/10/2024 22:44	65802	RTWN_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
6/10/2024 22:44	66703	STRA_T1	4	1	-3	0.35	0.1	-0.25	-0.28	-0.3	0	0	0	0	0	0
6/10/2024 22:44	56802	BENV_T2	1	2	1	0.7	0.7	0	-1.28	-1.3	0	0	0	0	0	0
6/10/2024 22:44	57403	SPAN_T1	0	13	13	0	0.24	0.24	0.06	0.05	0	0	0	0	0	0
6/10/2024 22:44	43302	WATS_T2	4	4	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
6/10/2024 22:44	50501	MECH_T1	4	4	0	0.63	1.13	0.5	0	0	0	0	0	0	0	0
6/10/2024 22:44	20403	ASHF_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
6/10/2024 22:44	52403	GRPA_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
6/10/2024 22:44	54505	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:44	67602	WARW_T2	0	0	0	0	0	0	-0.44	-0.59	6	6	0	4500	4500	0
6/10/2024 22:44	43801	WATS_T2	0	1	1	0	0	0	0.31	0.3	0	0	0	0	0	0
6/10/2024 22:44	60803	BUCK_T1	12	0	-12	0.34	0	-0.34	-0.48	-0.49	1	1	0	600	600	0
6/10/2024 22:44	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:44	54501	ENOL_T2	0	0	0	0	0	0	-0.43	-0.44	1	1	0	600	600	0
6/10/2024 22:44	40502	CRES_T2	0	6	6	0	0.12	0.12	0.21	0.21	0	0	0	0	0	0
6/10/2024 22:44	20401	ASHF_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
6/10/2024 22:44	54502	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/10/2024 22:44	17802	GILB_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
6/10/2024 22:44	66505	SMAN_T2	0	0	0	0	0	0	0.21	0.04	1	1	0	900	900	0
6/10/2024 22:44	40902	JESH_T1	14	0	-14	0.11	0	-0.11	-0.77	-0.79	0	0	0	0	0	0
6/10/2024 22:44	52503	PROG_T2	0	0	0	0	0	0	-0.58	-0.59	1	1	0	900	900	0
6/10/2024 22:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:44	52402	GRPA_T2	4	4	0	0.43	0.83	0.4	0	0	0	0	0	0	0	0
6/10/2024 22:44	59101	WALK_T2	0	0	0	0	0	0	1.28	1.28	0	0	0	0	0	0
6/10/2024 22:44	50502	MECH_T1	1	1	0	1.5	2.1	0.6	0	0	0	0	0	0	0	0
6/10/2024 22:44	43802	SWIL_T1	0	0	0	0	0	0	-0.1	-0.09	1	1	0	600	600	0
6/10/2024 22:44	60801	BUCK_T1	48	0	-48	0.33	0	-0.33	0	0	0	0	0	0	0	0
6/10/2024 22:44	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:44	13701	SCHN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:44	21203	ECAR_T1	0	48	48	0	0.21	0.21	0.49	0.49	0	0	0	0	0	0
6/10/2024 22:44	52101	MEIS_T1	2	2	0	1.55	1.65	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:45	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:45	10801	CHHI_T1	0	1	1	0	0	0	-0.19	-0.84	1	1	0	900	900	0
6/10/2024 22:45	46206	DANV_T2	0	0	0	0	0	0	3.25	3.21	1	1	0	1200	1200	0
6/10/2024 22:45	67803	WLAN_T1	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
6/10/2024 22:45	63804	HEMP_T1	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
6/10/2024 22:45	58001	WCAR_T1	4	4	0	1.28	1.38	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:45	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:45	67602	WARW_T2	0	0	0	0	0	0	-0.15	-0.2	2	2	0	1500	1500	0
6/10/2024 22:45	47802	MOCA_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
6/10/2024 22:45	56801	BENV_T1	6	7	1	1.15	1.73	0.58	-0.46	-0.49	1	1	0	600	600	0
6/10/2024 22:45	13704	SCHN_T2	6	6	0	0.2	0.15	-0.05	-0.32	-0.33	0	0	0	0	0	0
6/10/2024 22:45	42903	MIDD_T2	0	0	0	0	0	0	-0.16	-0.06	0	0	0	0	0	0
6/10/2024 22:45	42902	MIDD_T2	0	0	0	0	0	0	-1.05	-1.06	1	1	0	600	600	0
6/10/2024 22:45	16302	ALPA_T2	0	0	0	0	0	0	0.74	0.73	0	0	0	0	0	0
6/10/2024 22:45	63801	HEMP_T1	0	0	0	0	0	0	-0.69	-0.69	1	1	0	900	900	0
6/10/2024 22:45	45802	HEGI_T2	23	28	5	0.66	0.55	-0.11	0.63	0.6	0	0	0	0	0	0
6/10/2024 22:45	53501	EVIL_T2	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
6/10/2024 22:45	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
6/10/2024 22:45	67502	WEWI_T2	0	0	0	0	0	0	-0.34	-0.38	0	0	0	0	0	0
6/10/2024 22:45	67805	WLAN_T1	0	0	0	0	0	0	-1.37	-1.32	0	0	0	0	0	0
6/10/2024 22:45	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:45	57205	ROSS_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
6/10/2024 22:45	67804	WLAN_T1	0	0	0	0	0	0	-0.95	-0.97	0	0	0	0	0	0
6/10/2024 22:45	58003	WCAR_T1	1	3	2	1.9	0.7	-1.2	0.6	0.59	0	0	0	0	0	0
6/10/2024 22:45	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
6/10/2024 22:45	53502	EVIL_T2	0	0	0	0	0	0	0.76	0.75	0	0	0	0	0	0
6/10/2024 22:46	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:46	66505	SMAN_T2	0	0	0	0	0	0	0.21	0.04	1	1	0	900	900	0
6/10/2024 22:46	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:46	56802	BENV_T2	1	2	1	1.1	0.7	-0.4	-1.28	-1.3	0	0	0	0	0	0
6/10/2024 22:46	15204	SFAR_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
6/10/2024 22:46	15203	SFAR_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:46	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
6/10/2024 22:46	42201	SHEN_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
6/10/2024 22:46	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:46	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:46	57403	SPAN_T1	0	14	14	0	0.24	0.24	0.06	0.05	0	0	0	0	0	0
6/10/2024 22:46	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:46	46301	ROHR_T1	101	70	-31	0.19	0.16	-0.03	0	0	0	0	0	0	0	0
6/10/2024 22:46	52002	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:46	56801	BENV_T1	6	7	1	1.15	1.73	0.58	-0.46	-0.49	1	1	0	600	600	0
6/10/2024 22:46	52004	LING_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
6/10/2024 22:46	52402	GRPA_T2	4	4	0	0.48	0.83	0.35	-0.72	-0.73	0	0	0	0	0	0
6/10/2024 22:46	51804	EBEN_T2	0	2	2	0	0.15	0.15	-0.01	-0.04	1	1	0	900	900	0
6/10/2024 22:46	52006	LING_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:46	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:46	52403	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:46	46302	ROHR_T1	6	5	-1	1.53	2.1	0.57	0.17	0.17	0	0	0	0	0	0
6/10/2024 22:47	14404	SSLA_T1	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:47	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/10/2024 22:47	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:47	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:47	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:47	61102	BERK_T5	0	0	0	0	0	0	0.33	0.28	1	1	0	300	300	0
6/10/2024 22:47	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:47	64203	KINZ_T1	0	0	0	0	0	0	0.61	0.54	0	0	0	0	0	0
6/10/2024 22:47	43304	WATS_T2	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
6/10/2024 22:47	40802	EXCH_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
6/10/2024 22:47	56801	BENV_T1	6	7	1	1.15	1.73	0.58	-0.93	-0.97	2	2	0	1200	1200	0
6/10/2024 22:47	58001	WCAR_T1	4	4	0	1.28	1.38	0.1	0.71	0.69	0	0	0	0	0	0
6/10/2024 22:47	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:47	52004	LING_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
6/10/2024 22:47	52002	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:47	42201	SHEN_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
6/10/2024 22:47	52501	PROG_T1	0	0	0	0	0	0	0.51	0.49	1	1	0	300	300	0
6/10/2024 22:47	55002	NEWP_T1	5	5	0	0.6	0.86	0.26	-0.27	-0.27	0	0	0	0	0	0
6/10/2024 22:47	14403	SSLA_T1	0	0	0	0	0	0	0.73	0.7	0	0	0	0	0	0
6/10/2024 22:47	43302	WATS_T2	4	4	0	0.18	0.25	0.07	0	0	0	0	0	0	0	0
6/10/2024 22:47	58003	WCAR_T1	1	3	2	1.9	0.7	-1.2	0	0	0	0	0	0	0	0
6/10/2024 22:47	64202	KINZ_T1	3	3	0	0.63	0.63	0	0	0	0	0	0	0	0	0
6/10/2024 22:47	45402	WBLO_T2	53	47	-6	0.31	0.29	-0.02	-0.8	-0.81	0	0	0	0	0	0
6/10/2024 22:47	67605	WARW_T1	24	58	34	0.43	0.43	0	-1.13	-1.14	0	0	0	0	0	0
6/10/2024 22:47	67501	WEWI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:47	64201	KINZ_T1	1	3	2	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
6/10/2024 22:47	52006	LING_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:48	45004	LIME_2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:48	14403	SSLA_T1	0	0	0	0	0	0	0.73	0.7	0	0	0	0	0	0
6/10/2024 22:48	45003	LIME_2	2	2	0	2.7	2.95	0.25	0.45	0.44	0	0	0	0	0	0
6/10/2024 22:48	45001	LIME_2	8	24	16	0.11	0.22	0.11	0	0	0	0	0	0	0	0
6/10/2024 22:48	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:48	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:48	52102	MEIS_T1	25	97	72	0.12	0.13	0.01	0	0	0	0	0	0	0	0
6/10/2024 22:48	14802	TREI_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
6/10/2024 22:48	63302	GREE_T1	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
6/10/2024 22:48	12802	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/10/2024 22:48	40502	CRES_T2	2	13	11	0.1	0.22	0.12	0.32	0.31	0	0	0	0	0	0
6/10/2024 22:48	13704	SCHN_T2	6	6	0	0.2	0.15	-0.05	-0.32	-0.33	0	0	0	0	0	0
6/10/2024 22:48	12801	MICK_T1	0	0	0	0	0	0	-1.07	-1.09	1	1	0	600	600	0
6/10/2024 22:48	57103	SPHI_T2	0	0	0	0	0	0	-1.21	-1.23	0	0	0	0	0	0
6/10/2024 22:48	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:48	46206	DANV_T2	0	0	0	0	0	0	3.25	3.21	1	1	0	1200	1200	0
6/10/2024 22:48	57106	SPHI_T2	3	3	0	1.7	1.7	0	0	0	0	0	0	0	0	0
6/10/2024 22:48	57101	SPHI_T2	6	6	0	0.52	0.65	0.13	0	0	0	0	0	0	0	0
6/10/2024 22:48	52101	MEIS_T1	2	2	0	1.65	1.6	-0.05	0	0	0	0	0	0	0	0
6/10/2024 22:48	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:48	47802	MOCA_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
6/10/2024 22:48	56501	ROCK_T2	2	2	0	0.15	0.6	0.45	-1.18	-1.21	0	0	0	0	0	0
6/10/2024 22:48	12803	MICK_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/10/2024 22:48	41902	REED_T1	0	0	0	0	0	0	0.94	0.95	0	0	0	0	0	0
6/10/2024 22:48	59101	WALK_T2	0	0	0	0	0	0	1.28	1.28	0	0	0	0	0	0
6/10/2024 22:48	57104	SPHI_T2	2	2	0	3.35	2.1	-1.25	0	0	0	0	0	0	0	0
6/10/2024 22:48	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:48	40801	EXCH_T2	0	0	0	0	0	0	-0.51	-0.54	1	1	0	1200	1200	0
6/10/2024 22:48	14404	SSLA_T1	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:48	45002	LIME_2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
6/10/2024 22:49	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:49	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:49	56801	BENV_T1	6	7	1	1.15	1.73	0.58	-0.93	-0.97	2	2	0	1200	1200	0
6/10/2024 22:49	52402	GRPA_T2	4	4	0	0.48	0.83	0.35	0	0	0	0	0	0	0	0
6/10/2024 22:49	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:49	50506	MECH_T1	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
6/10/2024 22:49	44201	POIN_T1	300	291	-9	0.25	0.27	0.02	-2.3	-2.31	2	2	0	2100	2100	0
6/10/2024 22:49	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
6/10/2024 22:49	50501	MECH_T1	4	4	0	0.93	1.18	0.25	0	0	0	0	0	0	0	0
6/10/2024 22:49	49803	UNIV_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
6/10/2024 22:49	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:49	50502	MECH_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:49	13502	MCMI_T1	3	6	3	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
6/10/2024 22:49	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:49	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:49	40502	CRES_T2	2	13	11	0.1	0.22	0.12	0.11	0.1	0	0	0	0	0	0
6/10/2024 22:49	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:49	56601	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:49	52503	PROG_T2	0	0	0	0	0	0	-0.58	-0.59	1	1	0	900	900	0
6/10/2024 22:49	52403	GRPA_T2	0	2	2	0	0.1	0.1	0.17	0.16	0	0	0	0	0	0
6/10/2024 22:49	46206	DANV_T2	0	0	0	0	0	0	3.25	3.21	1	1	0	1200	1200	0
6/10/2024 22:49	44301	BEAV_T2	0	0	0	0	0	0	0.6	0.69	1	1	0	600	600	0
6/10/2024 22:50	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/10/2024 22:50	46206	DANV_T2	0	0	0	0	0	0	3.25	3.21	1	1	0	1200	1200	0
6/10/2024 22:50	56801	BENV_T1	6	7	1	1.15	1.73	0.58	-0.46	-0.49	1	1	0	600	600	0
6/10/2024 22:50	56501	ROCK_T2	2	2	0	0.15	0.6	0.45	-1.18	-1.21	0	0	0	0	0	0
6/10/2024 22:50	44505	HAMI_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
6/10/2024 22:50	45003	LIME_2	2	2	0	2.7	2.95	0.25	0.23	0.22	0	0	0	0	0	0
6/10/2024 22:50	45002	LIME_2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
6/10/2024 22:50	43302	WATS_T2	4	4	0	0.18	0.25	0.07	0	0	0	0	0	0	0	0
6/10/2024 22:50	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:50	50502	MECH_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:50	45001	LIME_2	8	24	16	0.11	0.22	0.11	0	0	0	0	0	0	0	0
6/10/2024 22:50	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:50	52006	LING_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:50	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:50	40603	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:50	43304	WATS_T2	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
6/10/2024 22:50	44502	HAMI_T2	1	1	0	3.6	3.7	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:50	42201	SHEN_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
6/10/2024 22:50	45004	LIME_2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:50	42903	MIDD_T2	0	0	0	0	0	0	-0.16	-0.06	0	0	0	0	0	0
6/10/2024 22:50	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/10/2024 22:50	41902	REED_T1	0	0	0	0	0	0	0.94	0.95	0	0	0	0	0	0
6/10/2024 22:50	52002	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:50	67605	WARW_T1	24	58	34	0.43	0.43	0	-1.13	-1.14	0	0	0	0	0	0
6/10/2024 22:50	67605	WARW_T1	24	58	34	0.43	0.43	0	-1.13	-1.14	0	0	0	0	0	0
6/10/2024 22:50	67605	WARW_T1	24	58	34	0.43	0.43	0	-1.13	-1.14	0	0	0	0	0	0
6/10/2024 22:50	67605	WARW_T1	24	58	34	0.43	0.43	0	-1.13	-1.14	0	0	0	0	0	0
6/10/2024 22:50	50501	MECH_T1	4	4	0	0.93	1.18	0.25	-0.17	-0.1	0	0	0	0	0	0
6/10/2024 22:51	12605	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:51	51101	CARL_T1	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
6/10/2024 22:51	51102	CARL_T1	54	53	-1	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
6/10/2024 22:51	67402	WAKE_T2	0	0	0	0	0	0	0.22	-0.44	0	0	0	0	0	0
6/10/2024 22:51	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:51	56801	BENV_T1	6	7	1	1.15	1.73	0.58	-0.93	-0.97	2	2	0	1200	1200	0
6/10/2024 22:51	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
6/10/2024 22:51	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:51	51108	CARL_T1	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
6/10/2024 22:51	52102	MEIS_T1	25	97	72	0.12	0.13	0.01	0	0	0	0	0	0	0	0
6/10/2024 22:51	52101	MEIS_T1	2	2	0	1.65	1.6	-0.05	0	0	0	0	0	0	0	0
6/10/2024 22:51	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:51	40502	CRES_T2	2	13	11	0.1	0.22	0.12	0.11	0.1	0	0	0	0	0	0
6/10/2024 22:52	53902	HALI_T2	1	1	0	4.5	4.8	0.3	-0.18	-0.19	0	0	0	0	0	0
6/10/2024 22:52	56801	BENV_T1	6	7	1	1.15	1.73	0.58	-0.49	-0.51	1	1	0	600	600	0
6/10/2024 22:52	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:52	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:52	42902	MIDD_T2	0	0	0	0	0	0	-2.13	-2.15	2	2	0	1200	1200	0
6/10/2024 22:52	53903	HALI_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/10/2024 22:53	67602	WARW_T2	0	0	0	0	0	0	-0.2	0.09	2	1	-1	1500	1200	-300
6/10/2024 22:53	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 22:53	53902	HALI_T2	1	1	0	4.5	4.8	0.3	0	0	0	0	0	0	0	0
6/10/2024 22:53	53903	HALI_T2	2	2	0	0.6	0.8	0.2	-0.11	-0.11	0	0	0	0	0	0
6/10/2024 22:53	56801	BENV_T1	6	7	1	1.15	1.73	0.58	-0.49	-0.51	1	1	0	600	600	0
6/10/2024 22:54	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
6/10/2024 22:55	63304	GREE_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
6/10/2024 22:55	51004	NHAR_T1	1	2	1	6.4	3.15	-3.25	0	0	0	0	0	0	0	0
6/10/2024 22:55	52503	PROG_T2	0	0	0	0	0	0	-0.59	-0.61	1	1	0	900	900	0
6/10/2024 22:55	40802	EXCH_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
6/10/2024 22:55	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
6/10/2024 22:55	49804	UNIV_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
6/10/2024 22:55	51002	NHAR_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
6/10/2024 22:55	51003	NHAR_T1	0	0	0	0	0	0	-1.56	-1.57	1	1	0	1200	1200	0
6/10/2024 22:56	45001	LIME_2	8	24	16	0.11	0.22	0.11	0	0	0	0	0	0	0	0
6/10/2024 22:56	45003	LIME_2	2	2	0	2.7	2.95	0.25	0.22	0.21	0	0	0	0	0	0
6/10/2024 22:56	45004	LIME_2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/10/2024 22:56	45002	LIME_2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
6/10/2024 22:57	55001	NEWP_T1	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
6/10/2024 22:57	55002	NEWP_T1	5	5	0	0.6	0.86	0.26	0	0	0	0	0	0	0	0
6/10/2024 23:00	52402	GRPA_T2	4	4	0	0.83	0.98	0.15	0	0	0	0	0	0	0	0
6/10/2024 23:00	52401	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/10/2024 23:00	52403	GRPA_T2	0	2	2	0	0.2	0.2	0.08	0.07	0	0	0	0	0	0
6/10/2024 23:00	52404	GRPA_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
6/10/2024 23:01	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 23:01	65502	MOJO_T2	0	7	7	0	0.1	0.1	-1.66	-1.7	1	1	0	900	900	0
6/10/2024 23:01	40502	CRES_T2	6	22	16	0.12	0.28	0.16	0.1	0.1	0	0	0	0	0	0
6/10/2024 23:15	60101	COCA_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
6/10/2024 23:15	64904	MILL_T1	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
6/10/2024 23:33	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 23:33	40502	CRES_T2	22	24	2	0.28	0.28	0	0.1	0.1	0	0	0	0	0	0
6/10/2024 23:34	40502	CRES_T2	22	24	2	0.28	0.28	0	0.1	0.1	0	0	0	0	0	0
6/10/2024 23:34	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2024 23:50	40502	CRES_T2	22	12	-10	0.3	0.15	-0.15	0.1	0.09	0	0	0	0	0	0
6/10/2024 23:50	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 0:03	67503	WEWI_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
6/11/2024 0:20	65603	QVIL_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
6/11/2024 0:48	24803	VALM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 0:48	24802	VALM_T1	0	0	0	0	0	0	1.17	1.11	0	0	0	0	0	0
6/11/2024 0:54	67603	WARW_T1	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
6/11/2024 0:54	67605	WARW_T1	14	14	0	0.6	0.74	0.14	0	0	0	0	0	0	0	0
6/11/2024 0:58	64204	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
6/11/2024 0:58	64201	KINZ_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
6/11/2024 0:58	64203	KINZ_T1	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
6/11/2024 0:58	64202	KINZ_T1	3	3	0	0.83	1.1	0.27	0	0	0	0	0	0	0	0
6/11/2024 0:59	64201	KINZ_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
6/11/2024 0:59	64203	KINZ_T1	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
6/11/2024 0:59	64204	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
6/11/2024 0:59	64202	KINZ_T1	3	3	0	0.83	1.1	0.27	0	0	0	0	0	0	0	0
6/11/2024 1:05	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	900	900	0
6/11/2024 1:06	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	900	900	0
6/11/2024 1:50	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	900	900	0
6/11/2024 1:51	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.97	1	1	0	900	900	0
6/11/2024 2:47	51204	MTON_T2	0	0	0	0	0	0	-0.42	-0.42	1	1	0	600	600	0
6/11/2024 2:48	58202	NEWV_T1	2	8	6	0.2	0.68	0.48	0.11	0.08	0	0	0	0	0	0
6/11/2024 2:48	51204	MTON_T2	0	0	0	0	0	0	-0.42	-0.42	1	1	0	600	600	0
6/11/2024 2:56	66504	SMAN_T2	0	0	0	0	0	0	-0.51	-0.61	0	0	0	0	0	0
6/11/2024 2:56	66505	SMAN_T2	3	3	0	0.67	0.97	0.3	0	0	0	0	0	0	0	0
6/11/2024 5:07	65901	SAKR_T2	1	1	0	8.5	8.1	-0.4	-1.24	-1.21	1	1	0	900	900	0
6/11/2024 5:44	28403	HART_T2	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
6/11/2024 6:06	14703	TREX_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
6/11/2024 6:06	14702	TREX_T2	0	0	0	0	0	0	0.85	0.83	0	0	0	0	0	0
6/11/2024 6:53	67605	WARW_T1	31	38	7	0.7	0.76	0.06	0	0	0	0	0	0	0	0
6/11/2024 6:53	67604	WARW_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
6/11/2024 6:55	62101	ELAN_T1	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
6/11/2024 6:55	62102	ELAN_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
6/11/2024 7:06	20403	ASHF_T2	0	0	0	0	0	0	1.2	1.36	0	0	0	0	0	0
6/11/2024 7:06	20401	ASHF_T2	2	2	0	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
6/11/2024 7:10	14204	EALL_T2	0	1	1	0	0.1	0.1	-0.25	0	0	0	0	0	0	0
6/11/2024 7:12	17805	GILB_T2	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
6/11/2024 7:12	17804	GILB_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 7:15	17805	GILB_T2	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
6/11/2024 7:21	15702	TANN_T2	1	0	-1	0.1	0	-0.1	-0.53	-0.52	0	0	0	0	0	0
6/11/2024 7:21	15703	TANN_T2	1	1	0	4.8	5.1	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/11/2024 7:22	56802	BENV_T2	1	1	0	0.8	1.1	0.3	-1.43	-1.41	0	0	0	0	0	0
6/11/2024 7:22	20403	ASHF_T2	0	0	0	0	0	0	1.42	1.51	0	0	0	0	0	0
6/11/2024 7:22	20401	ASHF_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
6/11/2024 7:27	14204	EALL_T2	1	0	-1	0.1	0	-0.1	0	-0.21	0	0	0	0	0	0
6/11/2024 7:29	58006	WCAR_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
6/11/2024 7:30	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 7:37	15703	TANN_T2	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
6/11/2024 7:37	15702	TANN_T2	0	0	0	0	0	0	-0.51	-0.44	0	0	0	0	0	0
6/11/2024 7:38	43103	SMIL_T2	19	21	2	0.69	0.95	0.26	0	0	0	0	0	0	0	0
6/11/2024 7:38	20401	ASHF_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
6/11/2024 7:38	43102	SMIL_T2	8	8	0	0.91	0.69	-0.22	0	0	0	0	0	0	0	0
6/11/2024 7:38	20403	ASHF_T2	0	2	2	0	0.2	0.2	1.51	1.36	0	0	0	0	0	0
6/11/2024 7:38	14603	SWHI_T1	0	0	0	0	0	0	-1.02	-1.02	1	1	0	600	600	0
6/11/2024 7:38	43101	SMIL_T2	0	0	0	0	0	0	-0.77	0	0	0	0	0	0	0
6/11/2024 7:38	43105	SMIL_T2	12	8	-4	0.28	0.19	-0.09	0	0	0	0	0	0	0	0
6/11/2024 7:44	12801	MICK_T1	0	0	0	0	0	0	-0.92	-0.91	1	1	0	600	600	0
6/11/2024 7:44	12807	MICK_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/11/2024 7:45	58006	WCAR_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
6/11/2024 7:47	12801	MICK_T1	0	0	0	0	0	0	-0.92	-0.91	1	1	0	600	600	0
6/11/2024 7:47	12807	MICK_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
6/11/2024 7:48	64902	MILL_T2	0	0	0	0	0	0	-0.73	-0.71	1	1	0	900	900	0
6/11/2024 7:48	64101	REFR_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
6/11/2024 7:49	43105	SMIL_T2	8	3	-5	0.19	0.13	-0.06	0	0	0	0	0	0	0	0
6/11/2024 7:49	12801	MICK_T1	0	0	0	0	0	0	-1.83	-1.82	2	2	0	1200	1200	0
6/11/2024 7:49	43102	SMIL_T2	8	7	-1	0.69	0.51	-0.18	0	0	0	0	0	0	0	0
6/11/2024 7:49	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 7:49	12807	MICK_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
6/11/2024 7:49	43103	SMIL_T2	21	18	-3	0.95	0.59	-0.36	-0.95	0	0	0	0	0	0	0
6/11/2024 7:51	43105	SMIL_T2	8	3	-5	0.19	0.13	-0.06	0	0	0	0	0	0	0	0
6/11/2024 7:51	15203	SFAR_T2	0	0	0	0	0	0	-1.26	-1.25	0	0	0	0	0	0
6/11/2024 7:51	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 7:51	43103	SMIL_T2	21	18	-3	0.95	0.59	-0.36	0	-0.82	0	0	0	0	0	0
6/11/2024 7:51	43102	SMIL_T2	8	7	-1	0.69	0.51	-0.18	0	0	0	0	0	0	0	0
6/11/2024 7:52	14801	TREI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 7:52	14802	TREI_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
6/11/2024 7:54	20401	ASHF_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
6/11/2024 7:54	20403	ASHF_T2	0	2	2	0	0.2	0.2	1.36	1.37	0	0	0	0	0	0
6/11/2024 7:59	46801	HEPB_T2	2	2	0	0.9	0.85	-0.05	0.57	0.59	0	0	0	0	0	0
6/11/2024 8:01	15203	SFAR_T2	0	0	0	0	0	0	-1.26	-1.25	0	0	0	0	0	0
6/11/2024 8:03	64904	MILL_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
6/11/2024 8:04	64902	MILL_T2	0	0	0	0	0	0	-1.42	-1.39	2	2	0	1800	1800	0
6/11/2024 8:05	55101	WERT_T1	0	0	0	0	0	0	-1.15	-1.06	2	2	0	1500	1500	0
6/11/2024 8:05	57104	SPHI_T2	1	2	1	2.7	1.35	-1.35	0	0	0	0	0	0	0	0
6/11/2024 8:05	57103	SPHI_T2	0	0	0	0	0	0	-1.61	-1.55	0	0	0	0	0	0
6/11/2024 8:05	57106	SPHI_T2	3	3	0	1.5	2.03	0.53	0	0	0	0	0	0	0	0
6/11/2024 8:05	57101	SPHI_T2	0	6	6	0	0.7	0.7	0	0	0	0	0	0	0	0
6/11/2024 8:07	45602	WOOL_T1	2	1	-1	0.2	0.2	0	0.63	0.64	0	0	0	0	0	0
6/11/2024 8:08	57101	SPHI_T2	0	6	6	0	0.7	0.7	0	0	0	0	0	0	0	0
6/11/2024 8:08	57104	SPHI_T2	1	2	1	2.7	1.35	-1.35	0	0	0	0	0	0	0	0
6/11/2024 8:08	57103	SPHI_T2	0	0	0	0	0	0	-1.55	-1.51	0	0	0	0	0	0
6/11/2024 8:08	57106	SPHI_T2	3	3	0	1.5	2.03	0.53	0	0	0	0	0	0	0	0
6/11/2024 8:08	57006	WHHI_T2	1	1	0	0.2	0.7	0.5	0.66	0.63	0	0	0	0	0	0
6/11/2024 8:08	57004	WHHI_T2	0	0	0	0	0	0	-1.13	-1.12	0	0	0	0	0	0
6/11/2024 8:09	45602	WOOL_T1	2	1	-1	0.2	0.2	0	0.63	0.64	0	0	0	0	0	0
6/11/2024 8:10	59101	WALK_T2	0	0	0	0	0	0	2.24	1.89	0	0	0	0	0	0
6/11/2024 8:10	45602	WOOL_T1	2	1	-1	0.2	0.2	0	0.63	0.64	0	0	0	0	0	0
6/11/2024 8:11	24201	PROV_T3	1	1	0	5.7	6	0.3	0	-1.46	1	1	0	1200	1200	0
6/11/2024 8:11	20403	ASHF_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/11/2024 8:11	20401	ASHF_T2	2	2	0	0.45	0.4	-0.05	-0.23	-0.23	0	0	0	0	0	0
6/11/2024 8:11	45602	WOOL_T1	2	1	-1	0.2	0.2	0	0.63	0.64	0	0	0	0	0	0
6/11/2024 8:11	24204	PROV_T3	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
6/11/2024 8:14	58006	WCAR_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
6/11/2024 8:16	65004	NEFF_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
6/11/2024 8:16	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 8:17	46504	LOHA_T1	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/11/2024 8:17	46506	LOHA_T1	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
6/11/2024 8:18	65001	NEFF_T2	0	0	0	0	0	0	-0.52	-0.44	1	1	0	1200	1200	0
6/11/2024 8:18	65003	NEFF_T2	0	1	1	0	0.1	0.1	-1.69	-1.55	2	2	0	1800	1800	0
6/11/2024 8:19	13704	SCHN_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
6/11/2024 8:21	65004	NEFF_T2	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
6/11/2024 8:21	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 8:22	56802	BENV_T2	159	262	103	0.25	0.29	0.04	-2.82	-1.61	0	0	0	0	0	0
6/11/2024 8:24	56802	BENV_T2	159	262	103	0.25	0.29	0.04	-1.41	-0.8	0	0	0	0	0	0
6/11/2024 8:25	56802	BENV_T2	159	262	103	0.25	0.29	0.04	-2.82	-1.61	0	0	0	0	0	0
6/11/2024 8:27	58006	WCAR_T2	0	0	0	0	0	0	0.32	0.22	0	0	0	0	0	0
6/11/2024 8:31	50103	HARR_T3	2	2	0	0.85	0.65	-0.2	-0.8	-0.8	1	1	0	1200	1200	0
6/11/2024 8:31	50107	HARR_T3	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
6/11/2024 8:31	50105	HARR_T3	6	6	0	5.85	5.88	0.03	0	0	0	0	0	0	0	0
6/11/2024 8:31	50201	HARR_T3	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/11/2024 8:32	50105	HARR_T3	6	6	0	5.85	5.88	0.03	0	0	0	0	0	0	0	0
6/11/2024 8:32	50201	HARR_T3	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/11/2024 8:32	50107	HARR_T3	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
6/11/2024 8:32	50103	HARR_T3	2	2	0	0.85	0.65	-0.2	-0.8	-0.8	1	1	0	1200	1200	0
6/11/2024 8:38	15704	TANN_T1	0	0	0	0	0	0	-0.4	-0.35	0	0	0	0	0	0
6/11/2024 8:38	15701	TANN_T1	1	1	0	4.3	4.6	0.3	0	0	0	0	0	0	0	0
6/11/2024 8:39	65001	NEFF_T2	0	0	0	0	0	0	-0.39	-0.21	1	1	0	1200	1200	0
6/11/2024 8:39	65003	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 8:41	44802	EDAN_T2	0	0	0	0	0	0	-6.25	-5.97	0	0	0	0	0	0
6/11/2024 8:42	44802	EDAN_T2	0	0	0	0	0	0	-2.08	-1.99	0	0	0	0	0	0
6/11/2024 8:43	44802	EDAN_T2	0	0	0	0	0	0	-2.08	-1.99	0	0	0	0	0	0
6/11/2024 8:44	44802	EDAN_T2	0	0	0	0	0	0	-2.08	-1.99	0	0	0	0	0	0
6/11/2024 8:48	58006	WCAR_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
6/11/2024 8:49	64904	MILL_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
6/11/2024 8:50	57106	SPHI_T2	3	3	0	2.23	2.07	-0.16	0	0	0	0	0	0	0	0
6/11/2024 8:50	57101	SPHI_T2	6	4	-2	0.45	0.3	-0.15	0.27	0.28	0	0	0	0	0	0
6/11/2024 8:50	57104	SPHI_T2	3	2	-1	2.27	2.2	-0.07	0	0	0	0	0	0	0	0
6/11/2024 8:51	57106	SPHI_T2	3	3	0	2.23	2.07	-0.16	0	0	0	0	0	0	0	0
6/11/2024 8:51	57104	SPHI_T2	3	2	-1	2.27	2.2	-0.07	-1.67	-1.59	0	0	0	0	0	0
6/11/2024 8:51	57101	SPHI_T2	6	4	-2	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
6/11/2024 8:52	57103	SPHI_T2	0	0	0	0	0	0	-1.47	-1.38	0	0	0	0	0	0
6/11/2024 8:52	57101	SPHI_T2	6	4	-2	0.45	0.3	-0.15	0.28	0.28	0	0	0	0	0	0
6/11/2024 8:52	57104	SPHI_T2	3	2	-1	2.27	2.2	-0.07	0	0	0	0	0	0	0	0
6/11/2024 8:52	57106	SPHI_T2	3	3	0	2.23	2.07	-0.16	0	0	0	0	0	0	0	0
6/11/2024 8:53	57106	SPHI_T2	3	3	0	2.23	2.07	-0.16	0	0	0	0	0	0	0	0
6/11/2024 8:53	57103	SPHI_T2	0	0	0	0	0	0	-1.47	-1.38	0	0	0	0	0	0
6/11/2024 8:53	57104	SPHI_T2	3	2	-1	2.27	2.2	-0.07	-0.4	-0.38	0	0	0	0	0	0
6/11/2024 8:53	57101	SPHI_T2	6	4	-2	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
6/11/2024 8:55	60901	DONG_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/11/2024 8:55	60904	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 8:55	60902	DONG_T2	0	0	0	0	0	0	0.93	0.96	0	0	0	0	0	0
6/11/2024 8:55	60903	DONG_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/11/2024 8:59	46506	LOHA_T1	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
6/11/2024 9:00	46506	LOHA_T1	0	1	1	0	0.2	0.2	-0.44	-0.43	0	0	0	0	0	0
6/11/2024 9:03	66502	SMAN_T2	0	0	0	0	0	0	0.41	0.5	0	0	0	0	0	0
6/11/2024 9:05	67605	WARW_T1	16	16	0	0.56	0.58	0.02	-1.05	-1.03	0	0	0	0	0	0
6/11/2024 9:08	67605	WARW_T1	16	16	0	0.56	0.58	0.02	-1.03	-1.03	0	0	0	0	0	0
6/11/2024 9:09	67605	WARW_T1	16	16	0	0.56	0.58	0.02	-1.03	-1.03	0	0	0	0	0	0
6/11/2024 9:10	14401	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 9:10	14404	SSLA_T1	2	1	-1	3.15	6.2	3.05	0	0	0	0	0	0	0	0
6/11/2024 9:10	14403	SSLA_T1	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
6/11/2024 9:11	14401	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 9:11	14403	SSLA_T1	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
6/11/2024 9:11	14404	SSLA_T1	2	1	-1	3.15	6.2	3.05	0	0	0	0	0	0	0	0
6/11/2024 9:16	40101	HUNT_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
6/11/2024 9:17	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 9:17	60502	NMAN_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
6/11/2024 9:17	60501	NMAN_T2	3	3	0	5.53	5.37	-0.16	0	0	0	0	0	0	0	0
6/11/2024 9:18	60502	NMAN_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
6/11/2024 9:18	17002	RIRO_T2	4	8	4	0.65	0.39	-0.26	0.67	0.67	0	0	0	0	0	0
6/11/2024 9:18	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 9:18	60501	NMAN_T2	3	3	0	5.53	5.37	-0.16	0	0	0	0	0	0	0	0
6/11/2024 9:19	66504	SMAN_T2	0	0	0	0	0	0	-0.16	-0.32	0	0	0	0	0	0
6/11/2024 9:21	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 9:21	60501	NMAN_T2	3	3	0	5.53	5.37	-0.16	0	0	0	0	0	0	0	0
6/11/2024 9:21	60502	NMAN_T2	0	0	0	0	0	0	-0.11	-0.02	0	0	0	0	0	0
6/11/2024 9:22	66504	SMAN_T2	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
6/11/2024 9:23	45602	WOOL_T1	0	2	2	0	0.2	0.2	0.66	0.67	0	0	0	0	0	0
6/11/2024 9:25	45602	WOOL_T1	0	2	2	0	0.2	0.2	0.66	0.67	0	0	0	0	0	0
6/11/2024 9:26	45501	DERR_T2	0	0	0	0	0	0	0.63	0.64	2	2	0	1800	1800	0
6/11/2024 9:28	45501	DERR_T2	0	0	0	0	0	0	0.63	0.64	2	2	0	1800	1800	0
6/11/2024 9:30	16403	MOPO_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
6/11/2024 9:33	16403	MOPO_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
6/11/2024 9:34	57403	SPAN_T1	0	18	18	0	0.19	0.19	-0.03	-0.03	0	0	0	0	0	0
6/11/2024 9:34	57401	SPAN_T1	2	2	0	0.1	0.35	0.25	0	0	0	0	0	0	0	0
6/11/2024 9:36	56501	ROCK_T2	3	3	0	1.97	2.5	0.53	0	0	0	0	0	0	0	0
6/11/2024 9:36	56504	ROCK_T2	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
6/11/2024 9:37	67502	WEWI_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/11/2024 9:37	67503	WEWI_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
6/11/2024 9:37	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 9:37	59101	WALK_T2	0	0	0	0	0	0	1.59	2.26	0	0	0	0	0	0
6/11/2024 9:39	67503	WEWI_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
6/11/2024 9:39	67502	WEWI_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/11/2024 9:42	46801	HEPB_T2	3	3	0	0.73	0.8	0.07	0	0	0	0	0	0	0	0
6/11/2024 9:42	46803	HEPB_T2	1	2	1	0.2	0.15	-0.05	0.51	0.53	0	0	0	0	0	0
6/11/2024 9:46	46802	HEPB_T1	1	1	0	1.6	1.4	-0.2	-0.22	-0.21	0	0	0	0	0	0
6/11/2024 9:48	13503	MCMI_T2	1	2	1	0.7	0.5	-0.2	-0.01	-0.01	0	0	0	0	0	0
6/11/2024 9:52	16302	ALPA_T2	1	1	0	0.2	0.6	0.4	0.85	0.92	0	0	0	0	0	0
6/11/2024 9:53	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.37	-0.36	0	0	0	0	0	0
6/11/2024 9:53	15703	TANN_T2	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
6/11/2024 9:54	10801	CHHI_T1	0	6	6	0	0.47	0.47	-0.57	-0.7	1	1	0	900	900	0
6/11/2024 9:55	60201	ATGL_T2	0	0	0	0	0	0	0.56	0.71	0	0	0	0	0	0
6/11/2024 9:55	16302	ALPA_T2	1	1	0	0.2	0.6	0.4	1.7	1.84	0	0	0	0	0	0
6/11/2024 9:56	16302	ALPA_T2	1	1	0	0.2	0.6	0.4	0.85	0.92	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/11/2024 9:56	10805	CHHI_T2	1	1	0	8.8	8.9	0.1	-0.65	-0.56	1	1	0	600	600	0
6/11/2024 9:57	17805	GILB_T2	1	1	0	0.2	0.4	0.2	0.71	0.72	0	0	0	0	0	0
6/11/2024 9:57	17804	GILB_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/11/2024 10:00	13701	SCHN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/11/2024 10:00	66502	SMAN_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
6/11/2024 10:00	17804	GILB_T2	1	0	-1	0.3	0	-0.3	-0.47	-0.47	0	0	0	0	0	0
6/11/2024 10:00	17805	GILB_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/11/2024 10:00	17002	RIRO_T2	2	2	0	0.4	0.45	0.05	0.77	0.74	0	0	0	0	0	0
6/11/2024 10:00	57401	SPAN_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/11/2024 10:00	57106	SPHI_T2	3	3	0	1.27	1.7	0.43	0	0	0	0	0	0	0	0
6/11/2024 10:00	14603	SWHI_T1	0	0	0	0	0	0	-0.96	-0.95	1	1	0	600	600	0
6/11/2024 10:00	57104	SPHI_T2	1	1	0	2.4	2.3	-0.1	-0.36	-0.36	0	0	0	0	0	0
6/11/2024 10:00	57101	SPHI_T2	6	6	0	0.5	0.72	0.22	0.3	0.31	0	0	0	0	0	0
6/11/2024 10:00	57103	SPHI_T2	0	0	0	0	0	0	-1.3	-1.33	0	0	0	0	0	0
6/11/2024 10:00	13704	SCHN_T2	1	1	0	0.1	0.1	0	-0.29	-0.28	0	0	0	0	0	0
6/11/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
6/11/2024 10:00	67502	WEWI_T2	1	2	1	0.6	1.05	0.45	-0.04	-0.11	0	0	0	0	0	0
6/11/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.5	0.59	0	0	0	0	0	0
6/11/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 10:00	57403	SPAN_T1	3	0	-3	0.1	0	-0.1	-0.02	-0.02	0	0	0	0	0	0
6/11/2024 10:00	52402	GRPA_T2	2	4	2	0.15	0.3	0.15	0	0	0	0	0	0	0	0
6/11/2024 10:00	52403	GRPA_T2	0	2	2	0	0.2	0.2	0.18	0.19	0	0	0	0	0	0
6/11/2024 10:00	40505	CRES_T1	3	3	0	4.5	4.23	-0.27	0.38	0.39	0	0	0	0	0	0
6/11/2024 10:00	55105	WERT_T1	0	0	0	0	0	0	-0.56	-0.55	1	1	0	900	900	0
6/11/2024 10:00	66504	SMAN_T2	0	0	0	0	0	0	-0.21	-0.08	0	0	0	0	0	0
6/11/2024 10:07	67804	WLAN_T1	1	0	-1	0.2	0	-0.2	-1	-1	0	0	0	0	0	0
6/11/2024 10:07	56802	BENV_T2	13	2	-11	0.22	0.8	0.58	-0.66	-0.66	0	0	0	0	0	0
6/11/2024 10:07	67803	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/11/2024 10:08	20403	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 10:08	67803	WLAN_T1	0	1	1	0	0.2	0.2	-0.81	-0.8	0	0	0	0	0	0
6/11/2024 10:08	67804	WLAN_T1	1	0	-1	0.2	0	-0.2	-1	-1	0	0	0	0	0	0
6/11/2024 10:08	20401	ASHF_T2	2	1	-1	0.25	0.1	-0.15	-0.15	-0.13	0	0	0	0	0	0
6/11/2024 10:09	15703	TANN_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
6/11/2024 10:09	57106	SPHI_T2	3	3	0	1.27	1.7	0.43	0	0	0	0	0	0	0	0
6/11/2024 10:09	57104	SPHI_T2	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
6/11/2024 10:09	67803	WLAN_T1	0	1	1	0	0.2	0.2	-0.81	-0.8	0	0	0	0	0	0
6/11/2024 10:09	57103	SPHI_T2	0	0	0	0	0	0	-1.33	-1.29	0	0	0	0	0	0
6/11/2024 10:09	67804	WLAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/11/2024 10:09	57101	SPHI_T2	6	6	0	0.5	0.72	0.22	0.31	0.32	0	0	0	0	0	0
6/11/2024 10:09	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.72	-0.71	0	0	0	0	0	0
6/11/2024 10:10	15701	TANN_T1	1	1	0	4.1	4.4	0.3	0	0	0	0	0	0	0	0
6/11/2024 10:10	20403	ASHF_T2	0	1	1	0	0	0	1.42	1.48	0	0	0	0	0	0
6/11/2024 10:10	15704	TANN_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
6/11/2024 10:10	15703	TANN_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
6/11/2024 10:10	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.36	-0.35	0	0	0	0	0	0
6/11/2024 10:10	20401	ASHF_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
6/11/2024 10:11	14404	SSLA_T1	2	1	-1	3.05	5.8	2.75	0.02	0.02	0	0	0	0	0	0
6/11/2024 10:11	14402	SSLA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/11/2024 10:11	67804	WLAN_T1	1	0	-1	0.2	0	-0.2	-1	-1	0	0	0	0	0	0
6/11/2024 10:11	14203	EALL_T1	2	2	0	0.2	0.3	0.1	0.2	-0.51	0	1	1	0	1200	1200
6/11/2024 10:11	67803	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/11/2024 10:11	60201	ATGL_T2	0	0	0	0	0	0	0.71	0.57	0	0	0	0	0	0
6/11/2024 10:13	45501	DERR_T2	0	0	0	0	0	0	1.29	1.47	4	4	0	3600	3600	0
6/11/2024 10:13	14404	SSLA_T1	2	1	-1	3.05	5.8	2.75	0.02	0.02	0	0	0	0	0	0
6/11/2024 10:13	14402	SSLA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/11/2024 10:14	20603	GRWO_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/11/2024 10:14	20601	GRWO_T2	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
6/11/2024 10:15	67803	WLAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/11/2024 10:15	67804	WLAN_T1	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
6/11/2024 10:16	20603	GRWO_T2	0	2	2	0	0.2	0.2	-0.63	-0.63	1	1	0	900	900	0
6/11/2024 10:17	27603	PIRI_T2	0	0	0	0	0	0	-0.91	-1.03	2	2	0	1800	1800	0
6/11/2024 10:17	50502	MECH_T1	1	0	-1	2.1	2.1	0	0	0	0	0	0	0	0	0
6/11/2024 10:17	40602	PIGR_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/11/2024 10:17	50501	MECH_T1	4	4	0	1.23	1.13	-0.1	-0.01	-0.01	0	0	0	0	0	0
6/11/2024 10:17	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 10:17	50506	MECH_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
6/11/2024 10:18	50506	MECH_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
6/11/2024 10:18	15602	NSTR_T2	0	1	1	0	0.1	0.1	0.04	0.04	0	0	0	0	0	0
6/11/2024 10:18	50502	MECH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
6/11/2024 10:18	15601	NSTR_T2	3	4	1	0.7	1.05	0.35	0	0	0	0	0	0	0	0
6/11/2024 10:18	50501	MECH_T1	4	4	0	1.23	1.13	-0.1	0	0	0	0	0	0	0	0
6/11/2024 10:18	15603	NSTR_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
6/11/2024 10:20	59101	WALK_T2	0	0	0	0	0	0	2.2	2.2	0	0	0	0	0	0
6/11/2024 10:20	13704	SCHN_T2	1	1	0	0.1	0.2	0.1	-0.28	-0.28	0	0	0	0	0	0
6/11/2024 10:20	50501	MECH_T1	4	4	0	1.23	1.13	-0.1	0	0	0	0	0	0	0	0
6/11/2024 10:20	13303	ORVI_T1	0	0	0	0	0	0	-0.15	-0.05	0	0	0	0	0	0
6/11/2024 10:20	50506	MECH_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
6/11/2024 10:20	50502	MECH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
6/11/2024 10:20	13701	SCHN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/11/2024 10:21	40602	PIGR_T1	1	1	0	0.8	0.5	-0.3	0	0	1	1	0	600	600	0
6/11/2024 10:21	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 10:21	43802	SWIL_T1	0	0	0	0	0	0	-0.24	-0.23	1	1	0	600	600	0
6/11/2024 10:21	43801	SWIL_T1	1	2	1	5.5	2.65	-2.85	0	0	0	0	0	0	0	0
6/11/2024 10:21	59101	WALK_T2	0	0	0	0	0	0	2.2	2.2	0	0	0	0	0	0
6/11/2024 10:22	43304	WATS_T2	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
6/11/2024 10:22	43301	WATS_T2	1	1	0	1.1	1.3	0.2	-0.6	-0.6	1	1	0	900	900	0
6/11/2024 10:22	13704	SCHN_T2	1	1	0	0.1	0.2	0.1	-0.28	-0.27	0	0	0	0	0	0
6/11/2024 10:22	13701	SCHN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/11/2024 10:23	60801	BUCK_T1	1	1	0	0.1	0.1	0	-0.38	-0.39	1	1	0	600	600	0
6/11/2024 10:23	59101	WALK_T2	0	0	0	0	0	0	2.2	2.32	0	0	0	0	0	0
6/11/2024 10:24	10801	CHHI_T1	6	5	-1	0.42	0.34	-0.08	-0.66	-0.58	1	1	0	900	900	0
6/11/2024 10:25	10801	CHHI_T1	6	5	-1	0.42	0.34	-0.08	-0.66	-0.58	1	1	0	900	900	0
6/11/2024 10:25	59101	WALK_T2	0	0	0	0	0	0	2.2	2.32	0	0	0	0	0	0
6/11/2024 10:27	62102	ELAN_T1	0	0	0	0	0	0	0.71	0.77	0	0	0	0	0	0
6/11/2024 10:27	10801	CHHI_T1	6	5	-1	0.42	0.34	-0.08	-0.66	-0.58	1	1	0	900	900	0
6/11/2024 10:27	63501	HEID_T8KS-2	2	1	-1	0.35	0.2	-0.15	0.2	0.14	1	1	0	900	900	0
6/11/2024 10:27	24204	PROV_T3	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
6/11/2024 10:27	24201	PROV_T3	1	1	0	7.5	7	-0.5	-1.36	-1.35	1	1	0	1200	1200	0
6/11/2024 10:28	45003	LIME_2	2	2	0	1.6	1.9	0.3	0.32	0.33	0	0	0	0	0	0
6/11/2024 10:28	45002	LIME_2	1	1	0	3.1	3.7	0.6	0	0	0	0	0	0	0	0
6/11/2024 10:30	45002	LIME_2	1	1	0	3.5	4	0.5	0	0	0	0	0	0	0	0
6/11/2024 10:30	45003	LIME_2	2	2	0	1.85	1.85	0	0.32	0.33	0	0	0	0	0	0
6/11/2024 10:30	40101	HUNT_T2	0	1	1	0	0	0	-0.05	-0.06	0	0	0	0	0	0
6/11/2024 10:36	43201	MVIL_T2	0	0	0	0	0	0	-1.29	-1.29	0	0	0	0	0	0
6/11/2024 10:37	67203	TEHI_T1	0	0	0	0	0	0	1.86	1.75	4	4	0	3000	3000	0
6/11/2024 10:37	54603	SUMM_T2	0	0	0	0	0	0	-0.28	-0.21	1	1	0	900	900	0
6/11/2024 10:37	54601	SUMM_T2	9	13	4	0.46	0.45	-0.01	0	0	0	0	0	0	0	0
6/11/2024 10:37	45902	AUBU_T1	0	0	0	0	0	0	-0.35	-0.3	1	1	0	600	600	0
6/11/2024 10:38	45902	AUBU_T1	0	0	0	0	0	0	-0.35	-0.3	1	1	0	600	600	0
6/11/2024 10:38	14802	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 10:38	14801	TREI_T2	1	1	0	0.2	0.6	0.4	0.49	0.5	0	0	0	0	0	0
6/11/2024 10:41	27005	BELL_T1	0	2	2	0	0.1	0.1	-1.75	-1.74	0	0	0	0	0	0
6/11/2024 10:41	45902	AUBU_T1	0	0	0	0	0	0	-0.35	-0.3	1	1	0	600	600	0
6/11/2024 10:41	63401	HONY_T1	0	0	0	0	0	0	0.74	0.77	0	0	0	0	0	0
6/11/2024 10:42	60801	BUCK_T1	0	1	1	0	0.2	0.2	-0.39	-0.43	1	1	0	600	600	0
6/11/2024 10:42	17802	GILB_T1	0	2	2	0	0.5	0.5	0.16	0.17	0	0	0	0	0	0
6/11/2024 10:44	63401	HONY_T1	0	0	0	0	0	0	0.74	0.77	0	0	0	0	0	0
6/11/2024 10:47	64204	KINZ_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/11/2024 10:47	64202	KINZ_T1	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/11/2024 10:47	63401	HONY_T1	0	0	0	0	0	0	0.74	0.77	0	0	0	0	0	0
6/11/2024 10:47	64203	KINZ_T1	0	0	0	0	0	0	0.94	0.97	1	1	0	600	600	0
6/11/2024 10:47	58402	MORO_T1	0	0	0	0	0	0	-1.11	-1.13	3	3	0	2400	2400	0
6/11/2024 10:48	25503	MADI_T1	3	3	0	0.43	0.4	-0.03	-0.91	-0.91	0	0	0	0	0	0
6/11/2024 10:48	44703	MUNC_T2	0	0	0	0	0	0	0.81	0.82	0	0	0	0	0	0
6/11/2024 10:48	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.05	-0.05	0	0	0	0	0	0
6/11/2024 10:48	44701	MUNC_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/11/2024 10:48	25501	MADI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/11/2024 10:49	65001	NEFF_T2	0	0	0	0	0	0	-0.29	-0.38	1	1	0	1200	1200	0
6/11/2024 10:49	58001	WCAR_T1	4	5	1	1.5	1.22	-0.28	0.79	0.85	0	0	0	0	0	0
6/11/2024 10:49	58003	WCAR_T1	15	11	-4	0.23	0.28	0.05	0.79	0.79	0	0	0	0	0	0
6/11/2024 10:50	58401	MORO_T1	0	0	0	0	0	0	-1.92	-1.91	2	2	0	1200	1200	0
6/11/2024 10:50	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.05	-0.05	0	0	0	0	0	0
6/11/2024 10:50	58001	WCAR_T1	4	5	1	1.5	1.22	-0.28	0	0	0	0	0	0	0	0
6/11/2024 10:50	58003	WCAR_T1	15	11	-4	0.23	0.28	0.05	1.58	1.58	0	0	0	0	0	0
6/11/2024 10:51	13701	SCHN_T2	0	1	1	0	0.5	0.5	0.07	0.08	1	1	0	600	600	0
6/11/2024 10:51	67502	WEWI_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/11/2024 10:51	67503	WEWI_T2	0	0	0	0	0	0	-0.22	-0.08	0	0	0	0	0	0
6/11/2024 10:51	13704	SCHN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/11/2024 10:52	58006	WCAR_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
6/11/2024 10:52	67605	WARW_T1	16	13	-3	0.43	0.49	0.06	0	0	0	0	0	0	0	0
6/11/2024 10:52	67603	WARW_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
6/11/2024 10:52	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.2	-0.24	0	0	0	0	0	0
6/11/2024 10:53	67502	WEWI_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/11/2024 10:53	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.1	-0.12	0	0	0	0	0	0
6/11/2024 10:53	67503	WEWI_T2	0	0	0	0	0	0	-0.22	-0.08	0	0	0	0	0	0
6/11/2024 10:54	24801	VALM_T1	0	1	1	0	0.2	0.2	-0.32	-0.32	0	0	0	0	0	0
6/11/2024 10:54	46206	DANV_T2	1	5	4	0.5	0.33	-0.17	3.45	3.53	1	1	0	1200	1200	0
6/11/2024 10:55	24801	VALM_T1	0	1	1	0	0.2	0.2	-0.32	-0.32	0	0	0	0	0	0
6/11/2024 10:57	46206	DANV_T2	1	5	4	0.5	0.33	-0.17	3.45	3.53	1	1	0	1200	1200	0
6/11/2024 10:58	46206	DANV_T2	1	5	4	0.5	0.33	-0.17	3.45	3.53	1	1	0	1200	1200	0
6/11/2024 10:58	44601	SALE_T2	2	0	-2	0.25	0	-0.25	0	0	2	2	0	900	900	0
6/11/2024 11:00	12801	MICK_T1	0	0	0	0	0	0	-0.71	-0.7	1	1	0	600	600	0
6/11/2024 11:00	12803	MICK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/11/2024 11:01	40101	HUNT_T2	1	2	1	0.1	0	-0.1	-0.08	-0.1	0	0	0	0	0	0
6/11/2024 11:01	44601	SALE_T2	0	2	2	0	0	0	0	0	2	2	0	900	900	0
6/11/2024 11:03	13302	ORVI_T2	1	2	1	0.4	1.1	0.7	1.4	1.42	0	0	0	0	0	0
6/11/2024 11:03	58402	MORO_T1	0	0	0	0	0	0	-1.13	-1.11	3	3	0	2400	2400	0
6/11/2024 11:06	27502	WEIS_T2	0	0	0	0	0	0	-0.44	-0.35	0	0	0	0	0	0
6/11/2024 11:06	27503	WEIS_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
6/11/2024 11:07	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.43	1	1	0	900	900	0
6/11/2024 11:07	14801	TREI_T2	1	2	1	0.6	0.85	0.25	0	0	0	0	0	0	0	0
6/11/2024 11:07	16102	BING_T2	0	0	0	0	0	0	1.34	1.25	0	0	0	0	0	0
6/11/2024 11:07	14802	TREI_T2	1	4	3	0.1	0.25	0.15	0.51	0.52	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/11/2024 11:08	67804	WLAN_T1	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
6/11/2024 11:08	14801	TREI_T2	1	2	1	0.6	0.85	0.25	0	0	0	0	0	0	0	0
6/11/2024 11:08	14802	TREI_T2	1	4	3	0.1	0.25	0.15	1.02	1.04	0	0	0	0	0	0
6/11/2024 11:09	10805	CHHI_T2	2	2	0	4.75	4.75	0	-0.53	-0.48	1	1	0	600	600	0
6/11/2024 11:09	67804	WLAN_T1	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
6/11/2024 11:10	54505	ENOL_T2	1	1	0	0.7	0.5	-0.2	-1.32	-1.32	1	1	0	600	600	0
6/11/2024 11:10	54502	ENOL_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/11/2024 11:10	67803	WLAN_T1	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
6/11/2024 11:10	60801	BUCK_T1	1	0	-1	0.2	0	-0.2	-0.53	-0.52	1	1	0	600	600	0
6/11/2024 11:11	14404	SSLA_T1	1	3	2	5.4	2	-3.4	0	0	0	0	0	0	0	0
6/11/2024 11:11	60801	BUCK_T1	1	0	-1	0.2	0	-0.2	-0.53	-0.52	1	1	0	600	600	0
6/11/2024 11:11	14402	SSLA_T1	2	4	2	0.4	0.48	0.08	0	0	0	0	0	0	0	0
6/11/2024 11:11	14403	SSLA_T1	1	1	0	0.1	0.3	0.2	0.82	0.84	0	0	0	0	0	0
6/11/2024 11:13	54502	ENOL_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/11/2024 11:13	54505	ENOL_T2	1	1	0	0.7	0.5	-0.2	-1.32	-1.32	1	1	0	600	600	0
6/11/2024 11:15	45802	HEGI_T2	1	1	0	0.1	0	-0.1	1.51	1.63	2	2	0	1800	1800	0
6/11/2024 11:15	46802	HEPB_T1	1	1	0	1.3	1.4	0.1	-0.19	-0.18	0	0	0	0	0	0
6/11/2024 11:17	27605	PIRI_T2	0	0	0	0	0	0	0.73	0.81	0	0	0	0	0	0
6/11/2024 11:19	13302	ORVI_T2	2	1	-1	1.1	0.3	-0.8	1.42	1.41	0	0	0	0	0	0
6/11/2024 11:20	42201	SHEN_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
6/11/2024 11:20	16403	MOPO_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
6/11/2024 11:21	13606	RICH_T2	1	1	0	7.3	7.2	-0.1	1.15	1.17	0	0	0	0	0	0
6/11/2024 11:22	13606	RICH_T2	1	1	0	7.3	7.2	-0.1	1.15	1.17	0	0	0	0	0	0
6/11/2024 11:23	20401	ASHF_T2	3	2	-1	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
6/11/2024 11:23	12803	MICK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/11/2024 11:23	12802	MICK_T1	0	0	0	0	0	0	-0.91	-0.88	0	0	0	0	0	0
6/11/2024 11:23	20403	ASHF_T2	7	2	-5	0.46	0.15	-0.31	1.29	1.21	0	0	0	0	0	0
6/11/2024 11:23	20402	ASHF_T2	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/11/2024 11:24	67803	WLAN_T1	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
6/11/2024 11:25	10805	CHHI_T2	2	4	2	4.75	4.85	0.1	-0.48	-0.36	1	1	0	600	600	0
6/11/2024 11:25	20401	ASHF_T2	3	2	-1	0.33	0.15	-0.18	-0.09	-0.09	0	0	0	0	0	0
6/11/2024 11:25	20402	ASHF_T2	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/11/2024 11:25	20403	ASHF_T2	7	2	-5	0.46	0.15	-0.31	1.29	1.21	0	0	0	0	0	0
6/11/2024 11:26	14402	SSLA_T1	4	3	-1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
6/11/2024 11:26	14401	SSLA_T1	0	0	0	0	0	0	-0.34	-0.4	0	0	0	0	0	0
6/11/2024 11:26	14403	SSLA_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/11/2024 11:26	22003	BOHE_T1	1	2	1	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
6/11/2024 11:26	14404	SSLA_T1	2	2	0	2.85	2.9	0.05	0	0	0	0	0	0	0	0
6/11/2024 11:27	41801	GOCI_T2	4	69	65	0.15	0.22	0.07	0	0	0	0	0	0	0	0
6/11/2024 11:28	41801	GOCI_T2	4	69	65	0.15	0.22	0.07	0	0	0	0	0	0	0	0
6/11/2024 11:29	22904	HARW_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
6/11/2024 11:29	45702	LIND_T2	1	33	32	1.1	0.21	-0.89	-0.48	-0.47	0	0	0	0	0	0
6/11/2024 11:30	45702	LIND_T2	33	1	-32	0.21	2.3	2.09	-0.48	-0.47	0	0	0	0	0	0
6/11/2024 11:34	65604	QVIL_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
6/11/2024 11:37	46001	BERW_T1	0	0	0	0	0	0	1.46	1.49	0	0	0	0	0	0
6/11/2024 11:37	66703	STRA_T1	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
6/11/2024 11:38	67603	WARW_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
6/11/2024 11:38	67605	WARW_T1	16	22	6	0.48	0.75	0.27	0	0	0	0	0	0	0	0
6/11/2024 11:39	27501	WEIS_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 11:39	16103	BING_T2	0	0	0	0	0	0	-0.8	-0.8	2	2	0	1500	1500	0
6/11/2024 11:39	46001	BERW_T1	0	0	0	0	0	0	4.39	4.46	0	0	0	0	0	0
6/11/2024 11:39	62104	ELAN_T1	0	0	0	0	0	0	0.47	0.45	2	2	0	1500	1500	0
6/11/2024 11:39	67605	WARW_T1	16	22	6	0.48	0.75	0.27	-0.96	-0.95	0	0	0	0	0	0
6/11/2024 11:39	67605	WARW_T1	16	22	6	0.48	0.75	0.27	-0.96	-0.95	0	0	0	0	0	0
6/11/2024 11:39	67605	WARW_T1	16	22	6	0.48	0.75	0.27	-0.96	-0.95	0	0	0	0	0	0
6/11/2024 11:39	67605	WARW_T1	16	22	6	0.48	0.75	0.27	-0.96	-0.95	0	0	0	0	0	0
6/11/2024 11:39	44601	SALE_T2	2	0	-2	0.5	0	-0.5	0.8	0.67	1	2	1	600	900	300
6/11/2024 11:39	27504	WEIS_T1	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
6/11/2024 11:41	60103	COCA_T2	0	0	0	0	0	0	-1.59	-1.68	3	3	0	3300	3300	0
6/11/2024 11:42	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 11:43	62104	ELAN_T1	0	0	0	0	0	0	0.47	0.45	2	2	0	1500	1500	0
6/11/2024 11:44	63501	HEID_TBK1-2	2	12	10	0.2	0.34	0.14	0.12	0.13	1	1	0	900	900	0
6/11/2024 11:44	62104	ELAN_T1	0	0	0	0	0	0	0.47	0.45	2	2	0	1500	1500	0
6/11/2024 11:45	52004	LING_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/11/2024 11:47	52004	LING_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/11/2024 11:47	12202	FOGE_T2	2	3	1	0.9	1.07	0.17	-0.37	-0.37	1	1	0	600	600	0
6/11/2024 11:51	67605	WARW_T1	15	21	6	0.67	0.7	0.03	-0.95	-0.95	0	0	0	0	0	0
6/11/2024 11:52	14203	EALL_T1	0	0	0	0	0	0	-0.36	-0.5	1	1	0	1200	1200	0
6/11/2024 11:53	67002	STHI_T2	0	0	0	0	0	0	-1.22	-1.19	0	0	0	0	0	0
6/11/2024 11:53	67605	WARW_T1	15	21	6	0.67	0.7	0.03	-0.95	-0.95	0	0	0	0	0	0
6/11/2024 11:54	24101	EHAZ_T1	20	20	0	1.06	1.41	0.35	0	0	0	0	0	0	0	0
6/11/2024 11:54	24105	EHAZ_T1	4	4	0	6.35	6.33	-0.02	0	0	0	0	0	0	0	0
6/11/2024 11:54	24102	EHAZ_T1	1	1	0	1.1	0.2	-0.9	0	0	0	0	0	0	0	0
6/11/2024 11:54	24103	EHAZ_T1	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
6/11/2024 11:54	29401	BELT_T1	1	1	0	0.6	0.7	0.1	0	0	1	1	0	900	900	0
6/11/2024 11:54	29402	BELT_T1	3	2	-1	3	4.3	1.3	0	0	0	0	0	0	0	0
6/11/2024 11:54	24104	EHAZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 11:55	67002	STHI_T2	0	0	0	0	0	0	-1.22	-1.19	0	0	0	0	0	0
6/11/2024 11:55	67605	WARW_T1	15	21	6	0.67	0.7	0.03	-0.95	-0.95	0	0	0	0	0	0
6/11/2024 11:55	60101	COCA_T1	0	1	1	0	0	0	0.44	0.37	0	0	0	0	0	0
6/11/2024 11:55	46206	DANV_T2	6	4	-2	0.57	0.63	0.06	3.46	3.46	1	1	0	1200	1200	0
6/11/2024 11:57	67002	STHI_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
6/11/2024 11:58	46206	DANV_T2	6	4	-2	0.57	0.63	0.06	3.46	3.46	1	1	0	1200	1200	0
6/11/2024 11:58	16101	BING_T2	0	1	1	0	0.2	0.2	0.48	0.49	0	0	0	0	0	0
6/11/2024 11:58	67002	STHI_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
6/11/2024 11:59	60901	DONG_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 11:59	60902	DONG_T2	0	0	0	0	0	0	0.89	0.98	0	0	0	0	0	0
6/11/2024 12:00	11507	FREE_T2	0	1	1	0	0	0	1.33	1.43	0	0	0	0	0	0
6/11/2024 12:01	58401	MORO_T1	0	0	0	0	0	0	-0.93	-0.92	1	1	0	600	600	0
6/11/2024 12:03	58401	MORO_T1	0	0	0	0	0	0	-0.93	-0.92	1	1	0	600	600	0
6/11/2024 12:06	42802	SELI_T1	1	1	0	0.3	0.2	-0.1	-1.21	-1.16	2	2	0	1800	1800	0
6/11/2024 12:06	24603	VARD_T2	4	2	-2	0.58	0.8	0.22	-0.15	-0.15	0	0	0	0	0	0
6/11/2024 12:06	40602	PIGR_T1	1	1	0	0.4	0.5	0.1	0	0	1	1	0	600	600	0
6/11/2024 12:06	24602	VARD_T2	84	170	86	0.29	0.29	0	0	0	0	0	0	0	0	0
6/11/2024 12:06	40601	PIGR_T1	3	8	5	0.17	0.26	0.09	0	0	0	0	0	0	0	0
6/11/2024 12:07	43301	WATS_T2	1	1	0	0.6	0.8	0.2	-0.58	-0.58	1	1	0	900	900	0
6/11/2024 12:09	10903	COOP_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/11/2024 12:09	10901	COOP_T2	0	0	0	0	0	0	-0.02	-0.02	1	1	0	1200	1200	0
6/11/2024 12:09	67605	WARW_T1	21	18	-3	0.7	0.67	-0.03	-0.95	-0.94	0	0	0	0	0	0
6/11/2024 12:10	67605	WARW_T1	21	18	-3	0.7	0.67	-0.03	-0.95	-0.94	0	0	0	0	0	0
6/11/2024 12:12	10805	CHHI_T2	3	2	-1	3.23	4.75	1.52	-0.58	-0.59	1	1	0	600	600	0
6/11/2024 12:14	63304	GREE_T1	0	0	0	0	0	0	-0.31	-0.23	0	0	0	0	0	0
6/11/2024 12:15	24102	EHAZ_T1	1	1	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
6/11/2024 12:15	13503	MCMI_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
6/11/2024 12:15	25402	LAHA_T2	1	3	2	0.2	0.53	0.33	-0.67	-0.61	0	0	0	0	0	0
6/11/2024 12:15	24105	EHAZ_T1	4	4	0	6.33	6.33	0	0	0	0	0	0	0	0	0
6/11/2024 12:15	24101	EHAZ_T1	13	18	5	1.42	0.6	-0.82	0	0	0	0	0	0	0	0
6/11/2024 12:15	24104	EHAZ_T1	0	0	0	0	0	0	-0.78	-0.8	1	1	0	1200	1200	0
6/11/2024 12:16	45402	WBLO_T2	2	1	-1	0.6	1	0.4	-0.61	-0.6	0	0	0	0	0	0
6/11/2024 12:16	63304	GREE_T1	0	0	0	0	0	0	-0.31	-0.23	0	0	0	0	0	0
6/11/2024 12:16	26401	INOR_T1	1	1	0	9.8	8.8	-1	0	0	0	0	0	0	0	0
6/11/2024 12:16	26402	INOR_T1	0	0	0	0	0	0	-0.88	-0.91	1	1	0	600	600	0
6/11/2024 12:17	40601	PIGR_T1	2	10	8	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
6/11/2024 12:17	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 12:17	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 12:17	40602	PIGR_T1	1	1	0	0.5	0.5	0	0	0	1	1	0	600	600	0
6/11/2024 12:19	56501	ROCK_T2	3	3	0	2.33	1.67	-0.66	0.1	0.1	0	0	0	0	0	0
6/11/2024 12:19	56802	BENV_T2	52	47	-5	0.18	0.17	-0.01	-0.62	-0.62	0	0	0	0	0	0
6/11/2024 12:20	56801	BENV_T1	11	11	0	0.62	0.75	0.13	-0.24	-0.2	1	1	0	600	600	0
6/11/2024 12:20	56803	BENV_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
6/11/2024 12:20	56802	BENV_T2	52	47	-5	0.18	0.17	-0.01	-0.62	-0.62	0	0	0	0	0	0
6/11/2024 12:21	56803	BENV_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
6/11/2024 12:21	56801	BENV_T1	11	11	0	0.62	0.75	0.13	-0.24	-0.2	1	1	0	600	600	0
6/11/2024 12:21	59202	THOM_T1	6	0	-6	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/11/2024 12:21	56802	BENV_T2	52	47	-5	0.18	0.17	-0.01	-1.86	-1.85	0	0	0	0	0	0
6/11/2024 12:21	56501	ROCK_T2	3	3	0	2.33	1.67	-0.66	0.1	0.1	0	0	0	0	0	0
6/11/2024 12:22	56802	BENV_T2	52	47	-5	0.18	0.17	-0.01	-1.23	-1.22	0	0	0	0	0	0
6/11/2024 12:23	56802	BENV_T2	52	47	-5	0.18	0.17	-0.01	-0.62	-0.61	0	0	0	0	0	0
6/11/2024 12:23	60102	COCA_T1	0	1	1	0	0.1	0.1	-0.68	-0.59	3	3	0	2100	2100	0
6/11/2024 12:24	14802	TREI_T2	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
6/11/2024 12:24	56802	BENV_T2	52	47	-5	0.18	0.17	-0.01	-0.62	-0.61	0	0	0	0	0	0
6/11/2024 12:25	56802	BENV_T2	52	47	-5	0.18	0.17	-0.01	-0.62	-0.61	0	0	0	0	0	0
6/11/2024 12:26	29401	BELT_T1	1	47	46	0.7	0.21	-0.49	0	0	1	1	0	900	900	0
6/11/2024 12:26	29402	BELT_T1	2	2	0	4.1	4.5	0.4	0	0	0	0	0	0	0	0
6/11/2024 12:28	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 12:29	29402	BELT_T1	2	2	0	4.1	4.5	0.4	0	0	0	0	0	0	0	0
6/11/2024 12:29	29401	BELT_T1	1	47	46	0.7	0.21	-0.49	0	0	1	1	0	900	900	0
6/11/2024 12:29	40801	EXCH_T2	0	0	0	0	0	0	-0.39	-0.42	1	1	0	1200	1200	0
6/11/2024 12:29	40802	EXCH_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/11/2024 12:31	63202	MGTN_T2	0	0	0	0	0	0	0.15	0.27	1	1	0	900	900	0
6/11/2024 12:31	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
6/11/2024 12:32	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
6/11/2024 12:35	56801	BENV_T1	11	10	-1	0.72	0.8	0.08	-0.4	-0.4	2	2	0	1200	1200	0
6/11/2024 12:35	56803	BENV_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
6/11/2024 12:35	24702	FLND_T2	2	1	-1	0.9	0.2	-0.7	0.26	0.35	1	1	0	1200	1200	0
6/11/2024 12:36	27205	YATE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 12:36	27201	YATE_T1	0	0	0	0	0	0	-1.66	-1.63	0	0	0	0	0	0
6/11/2024 12:36	48302	ORWI_T2	2	2	0	0.55	0.3	-0.25	0.1	0.11	0	0	0	0	0	0
6/11/2024 12:37	56801	BENV_T1	11	10	-1	0.72	0.8	0.08	-0.4	-0.2	2	2	0	1200	1200	0
6/11/2024 12:37	56803	BENV_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
6/11/2024 12:38	56801	BENV_T1	11	10	-1	0.72	0.8	0.08	-0.4	-0.2	2	2	0	1200	1200	0
6/11/2024 12:38	56803	BENV_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
6/11/2024 12:39	56801	BENV_T1	11	10	-1	0.72	0.8	0.08	-0.4	-0.2	2	2	0	1200	1200	0
6/11/2024 12:39	58006	WCAR_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
6/11/2024 12:39	58002	WCAR_T2	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
6/11/2024 12:39	56803	BENV_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
6/11/2024 12:41	60102	COCA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 12:41	60101	COCA_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
6/11/2024 12:43	53903	HALI_T2	2	2	0	1.6	1.6	0	-0.13	-0.13	0	0	0	0	0	0
6/11/2024 12:43	53901	HALI_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/11/2024 12:43	53902	HALI_T2	1	1	0	4.9	5.5	0.6	0	0	0	0	0	0	0	0
6/11/2024 12:44	23202	HIRU_T2	0	11	11	0	0.22	0.22	0.08	0.09	0	0	0	0	0	0
6/11/2024 12:44	23203	HIRU_T2	0	11	11	0	0.17	0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/11/2024 12:44	23201	HIRU_T2	0	16	16	0	0.15	0.15	0	0	0	0	0	0	0	0
6/11/2024 12:45	23203	HIRU_T2	5	12	7	0.14	0.17	0.03	0.08	0.1	0	0	0	0	0	0
6/11/2024 12:45	23202	HIRU_T2	4	10	6	0.25	0.21	-0.04	0	0	0	0	0	0	0	0
6/11/2024 12:45	23201	HIRU_T2	6	15	9	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
6/11/2024 12:46	16402	MOPO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 12:46	16406	MOPO_T1	0	0	0	0	0	0	0.37	0.38	1	1	0	1200	1200	0
6/11/2024 12:46	16401	MOPO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 12:47	22602	KIMB_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/11/2024 12:50	58002	WCAR_T2	1	1	0	1.9	0	-1.9	0	0	0	0	0	0	0	0
6/11/2024 12:50	58006	WCAR_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
6/11/2024 12:56	24801	VALM_T1	0	1	1	0	0.4	0.4	-0.18	-0.15	0	0	0	0	0	0
6/11/2024 12:57	24102	EHAZ_T1	1	7	6	2.1	1.5	-0.6	0	0	0	0	0	0	0	0
6/11/2024 12:57	24103	EHAZ_T1	0	0	0	0	0	0	-0.27	-0.26	0	0	0	0	0	0
6/11/2024 12:57	24105	EHAZ_T1	4	4	0	6.4	6.58	0.18	0	0	0	0	0	0	0	0
6/11/2024 12:57	24101	EHAZ_T1	18	22	4	0.45	0.89	0.44	0	0	0	0	0	0	0	0
6/11/2024 13:01	24702	FLND_T2	1	2	1	0.2	0.2	0	0.48	0.33	1	1	0	1200	1200	0
6/11/2024 13:04	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
6/11/2024 13:04	52502	PROG_T2	0	2	2	0	0.15	0.15	-0.62	-0.62	1	1	0	900	900	0
6/11/2024 13:05	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
6/11/2024 13:05	29402	BELT_T1	1	1	0	9	8.9	-0.1	0	0	0	0	0	0	0	0
6/11/2024 13:05	29401	BELT_T1	65	47	-18	0.25	0.21	-0.04	0	0	0	0	0	0	0	0
6/11/2024 13:06	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
6/11/2024 13:07	52502	PROG_T2	0	2	2	0	0.15	0.15	-0.62	-0.62	1	1	0	900	900	0
6/11/2024 13:08	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
6/11/2024 13:09	67303	WYOM_T2	0	2	2	0	0.3	0.3	-1.03	-0.92	0	0	0	0	0	0
6/11/2024 13:10	67303	WYOM_T2	0	2	2	0	0.3	0.3	-1.03	-0.92	0	0	0	0	0	0
6/11/2024 13:11	51102	CARL_T1	2	3	1	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
6/11/2024 13:11	51101	CARL_T1	1	1	0	6.8	6.6	-0.2	-1.04	-1	1	1	0	600	600	0
6/11/2024 13:12	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	-2.58	-2.57	2	2	0	1200	1200	0
6/11/2024 13:12	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/11/2024 13:13	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	-1.29	-1.28	1	1	0	600	600	0
6/11/2024 13:13	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/11/2024 13:14	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	-1.29	-1.28	1	1	0	600	600	0
6/11/2024 13:14	52402	GRPA_T2	3	37	34	0.6	0.28	-0.32	-1.56	-1.55	0	0	0	0	0	0
6/11/2024 13:14	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/11/2024 13:16	52403	GRPA_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
6/11/2024 13:16	52402	GRPA_T2	29	17	-12	0.25	0.49	0.24	0	0	0	0	0	0	0	0
6/11/2024 13:16	52401	GRPA_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
6/11/2024 13:16	65502	MOJO_T2	0	0	0	0	0	0	-0.66	-0.47	1	1	0	900	900	0
6/11/2024 13:18	23002	SAIO_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/11/2024 13:18	50502	MECH_T1	1	1	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
6/11/2024 13:18	65502	MOJO_T2	0	0	0	0	0	0	-0.66	-0.47	1	1	0	900	900	0
6/11/2024 13:18	50501	MECH_T1	4	4	0	0.85	0.73	-0.12	0	0	0	0	0	0	0	0
6/11/2024 13:18	50506	MECH_T1	0	0	0	0	0	0	-0.06	-0.07	1	1	0	900	900	0
6/11/2024 13:18	23001	SAIO_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
6/11/2024 13:19	42903	MIDD_T2	2	2	0	0.85	0.8	-0.05	0.42	0.4	1	1	0	1200	1200	0
6/11/2024 13:19	16403	MOPO_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
6/11/2024 13:26	13905	SEID_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
6/11/2024 13:30	63803	HEMP_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
6/11/2024 13:30	63804	HEMP_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
6/11/2024 13:30	63801	HEMP_T1	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/11/2024 13:33	16401	MOPO_T1	1	1	0	0.1	0.1	0	0.24	0.24	0	0	0	0	0	0
6/11/2024 13:35	66502	SMAN_T2	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
6/11/2024 13:36	57403	SPAN_T1	1	2	1	0.8	0.5	-0.3	0.03	0.04	0	0	0	0	0	0
6/11/2024 13:36	57401	SPAN_T1	2	4	2	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/11/2024 13:36	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
6/11/2024 13:37	57403	SPAN_T1	1	2	1	0.8	0.5	-0.3	0.04	0.04	0	0	0	0	0	0
6/11/2024 13:37	57401	SPAN_T1	2	4	2	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/11/2024 13:38	57401	SPAN_T1	2	4	2	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/11/2024 13:38	57403	SPAN_T1	1	2	1	0.8	0.5	-0.3	0.04	0.04	0	0	0	0	0	0
6/11/2024 13:38	66502	SMAN_T2	0	0	0	0	0	0	0.47	0.29	0	0	0	0	0	0
6/11/2024 13:42	10805	CHHI_T2	5	2	-3	2.38	4.8	2.42	-0.5	-0.61	1	1	0	600	600	0
6/11/2024 13:42	10801	CHHI_T1	0	0	0	0	0	0	-1.03	-0.96	2	2	0	1500	1500	0
6/11/2024 13:42	45802	HEGI_T2	0	0	0	0	0	0	1.16	1.14	2	2	0	1800	1800	0
6/11/2024 13:45	64501	LAVI_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
6/11/2024 13:46	64501	LAVI_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
6/11/2024 13:46	58402	MORO_T1	0	0	0	0	0	0	-1.07	-1.06	3	3	0	2400	2400	0
6/11/2024 13:47	65503	MOJO_T2	0	0	0	0	0	0	-0.7	-0.69	1	1	0	900	900	0
6/11/2024 13:47	15601	NSTR_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
6/11/2024 13:47	15603	NSTR_T2	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
6/11/2024 13:48	58402	MORO_T1	0	0	0	0	0	0	-1.07	-1.06	3	3	0	2400	2400	0
6/11/2024 13:51	58402	MORO_T1	0	0	0	0	0	0	-1.07	-1.06	3	3	0	2400	2400	0
6/11/2024 13:56	67804	WLAN_T1	1	2	1	0.1	0.35	0.25	-0.95	-0.96	0	0	0	0	0	0
6/11/2024 13:56	67803	WLAN_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
6/11/2024 13:57	63302	GREE_T1	0	0	0	0	0	0	0.81	0.96	0	0	0	0	0	0
6/11/2024 14:00	59302	MCAL_T1	1	0	-1	0.2	0	-0.2	-0.14	-0.1	1	1	0	600	600	0
6/11/2024 14:00	59301	MCAL_T1	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/11/2024 14:05	49803	UNIV_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
6/11/2024 14:05	56801	BENV_T1	11	8	-3	0.43	0.74	0.31	0	0	0	0	0	0	0	0
6/11/2024 14:05	56803	BENV_T1	1	1	0	0.8	0.7	-0.1	-0.09	-0.09	0	0	0	0	0	0
6/11/2024 14:10	53501	EVIL_T2	1	3	2	0.3	0.47	0.17	1.33	1.06	2	2	0	1200	1200	0
6/11/2024 14:11	53501	EVIL_T2	1	3	2	0.3	0.47	0.17	0.67	0.53	1	1	0	600	600	0
6/11/2024 14:11	29401	BELT_T1	39	43	4	0.22	0.21	-0.01	0	0	1	1	0	900	900	0
6/11/2024 14:11	16902	MECK_T1	1	0	-1	0.2	0	-0.2	0.05	0.05	0	0	0	0	0	0
6/11/2024 14:11	29402	BELT_T1	1	1	0	8.7	8.6	-0.1	0	0	0	0	0	0	0	0
6/11/2024 14:12	53501	EVIL_T2	1	3	2	0.3	0.47	0.17	0.67	0.53	1	1	0	600	600	0
6/11/2024 14:12	16902	MECK_T1	1	0	-1	0.2	0	-0.2	0.1	0.1	0	0	0	0	0	0
6/11/2024 14:13	52004	LING_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
6/11/2024 14:13	10805	CHHI_T2	2	5	3	4.8	2.53	-2.27	-0.43	-0.38	1	1	0	600	600	0
6/11/2024 14:14	53501	EVIL_T2	1	3	2	0.3	0.47	0.17	0.67	0.53	1	1	0	600	600	0
6/11/2024 14:14	16902	MECK_T1	1	0	-1	0.2	0	-0.2	0.05	0.05	0	0	0	0	0	0
6/11/2024 14:14	23403	HONE_T1	0	0	0	0	0	0	-0.63	-0.65	0	0	0	0	0	0
6/11/2024 14:18	64701	LITI_T1	0	0	0	0	0	0	0.58	0.65	0	0	0	0	0	0
6/11/2024 14:19	58006	WCAR_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
6/11/2024 14:20	58001	WCAR_T1	6	6	0	0.98	0.92	-0.06	0	0	0	0	0	0	0	0
6/11/2024 14:20	58003	WCAR_T1	7	4	-3	0.63	0.7	0.07	0.86	0.87	0	0	0	0	0	0
6/11/2024 14:21	58001	WCAR_T1	6	6	0	0.98	0.92	-0.06	0	0	0	0	0	0	0	0
6/11/2024 14:21	58003	WCAR_T1	7	4	-3	0.63	0.7	0.07	0.86	0.87	0	0	0	0	0	0
6/11/2024 14:22	54601	SUMM_T2	4	3	-1	0.4	0.43	0.03	-1.73	-1.69	2	2	0	2100	2100	0
6/11/2024 14:24	58001	WCAR_T1	6	6	0	0.98	0.92	-0.06	0	0	0	0	0	0	0	0
6/11/2024 14:24	58003	WCAR_T1	7	4	-3	0.63	0.7	0.07	0.87	0.88	0	0	0	0	0	0
6/11/2024 14:30	43304	WATS_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
6/11/2024 14:30	43301	WATS_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
6/11/2024 14:30	61801	EELI_T2	0	0	0	0	0	0	-0.65	-0.62	1	1	0	600	600	0
6/11/2024 14:30	43302	WATS_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
6/11/2024 14:32	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 14:32	14203	EALL_T1	0	0	0	0	0	0	0.1	0.1	1	1	0	1200	1200	0
6/11/2024 14:33	51002	NHAR_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
6/11/2024 14:33	51003	NHAR_T1	0	0	0	0	0	0	-1.31	-1.19	1	1	0	1200	1200	0
6/11/2024 14:33	51004	NHAR_T1	11	7	-4	0.76	1.01	0.25	0	0	0	0	0	0	0	0
6/11/2024 14:34	65205	PRIN_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/11/2024 14:35	58006	WCAR_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
6/11/2024 14:37	57004	WHHI_T2	0	0	0	0	0	0	-0.41	-0.29	0	0	0	0	0	0
6/11/2024 14:37	57006	WHHI_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/11/2024 14:37	57003	WHHI_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/11/2024 14:39	67803	WLAN_T1	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
6/11/2024 14:39	67804	WLAN_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/11/2024 14:41	60101	COCA_T1	0	0	0	0	0	0	0.39	0.47	0	0	0	0	0	0
6/11/2024 14:42	60101	COCA_T1	0	0	0	0	0	0	0.39	0.47	0	0	0	0	0	0
6/11/2024 14:43	29402	BELT_T1	1	1	0	8.5	8.9	0.4	0	0	0	0	0	0	0	0
6/11/2024 14:43	29401	BELT_T1	42	33	-9	0.2	0.18	-0.02	0	0	1	1	0	900	900	0
6/11/2024 14:43	60101	COCA_T1	0	0	0	0	0	0	0.39	0.47	0	0	0	0	0	0
6/11/2024 14:44	60101	COCA_T1	0	0	0	0	0	0	0.39	0.47	0	0	0	0	0	0
6/11/2024 14:53	29401	BELT_T1	32	39	7	0.17	0.23	0.06	0	0	1	1	0	900	900	0
6/11/2024 14:53	29402	BELT_T1	1	2	1	8.6	4.5	-4.1	0	0	0	0	0	0	0	0
6/11/2024 14:54	56501	ROCK_T2	3	4	1	2.4	2.15	-0.25	0	0	0	0	0	0	0	0
6/11/2024 14:54	56504	ROCK_T2	0	1	1	0	0.2	0.2	-0.02	-0.02	0	0	0	0	0	0
6/11/2024 14:55	67503	WEWI_T2	0	0	0	0	0	0	0.1	0.18	0	0	0	0	0	0
6/11/2024 14:55	67502	WEWI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/11/2024 14:57	53601	DALM_T2	1	1	0	0.3	0.8	0.5	0	-0.18	1	1	0	900	900	0
6/11/2024 15:02	21203	ECAR_T1	1	13	12	0.2	0.22	0.02	0.7	0.69	0	0	0	0	0	0
6/11/2024 15:07	24602	VARD_T2	388	443	55	0.38	0.48	0.1	-0.91	-0.82	0	0	0	0	0	0
6/11/2024 15:07	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/11/2024 15:07	24603	VARD_T2	2	2	0	0.7	1.25	0.55	0	0	0	0	0	0	0	0
6/11/2024 15:07	56501	ROCK_T2	3	4	1	2.83	2.2	-0.63	0.16	0.16	0	0	0	0	0	0
6/11/2024 15:09	62101	ELAN_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/11/2024 15:09	62105	ELAN_T1	1	2	1	1.1	0.3	-0.8	0.56	0.58	0	0	0	0	0	0
6/11/2024 15:13	67805	WLAN_T1	0	0	0	0	0	0	-0.75	-0.68	0	0	0	0	0	0
6/11/2024 15:14	47001	HUGH_T2	0	0	0	0	0	0	-0.06	0.04	0	0	0	0	0	0
6/11/2024 15:14	62105	ELAN_T1	1	2	1	1.1	0.3	-0.8	0.56	0.58	0	0	0	0	0	0
6/11/2024 15:14	51102	CARL_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
6/11/2024 15:14	45501	DERR_T2	1	1	0	0.5	0.6	0.1	0.95	0.85	2	2	0	1800	1800	0
6/11/2024 15:14	51108	CARL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/11/2024 15:14	51101	CARL_T1	1	1	0	6.6	6.4	-0.2	-1.04	-1.02	1	1	0	600	600	0
6/11/2024 15:14	62101	ELAN_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/11/2024 15:16	42001	MNVL_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
6/11/2024 15:16	42002	MNVL_T2	1	1	0	3.1	2.8	-0.3	0	0	0	0	0	0	0	0
6/11/2024 15:16	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/11/2024 15:17	47001	HUGH_T2	0	0	0	0	0	0	-0.06	0.04	0	0	0	0	0	0
6/11/2024 15:18	44201	POIN_T1	63	91	28	0.19	0.18	-0.01	-4.73	-4.75	4	4	0	4200	4200	0
6/11/2024 15:18	42001	MNVL_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
6/11/2024 15:18	42002	MNVL_T2	1	1	0	3.1	2.8	-0.3	0	0	0	0	0	0	0	0
6/11/2024 15:19	56501	ROCK_T2	4	4	0	2.38	2.15	-0.23	0.16	0.16	0	0	0	0	0	0
6/11/2024 15:19	56504	ROCK_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/11/2024 15:19	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/11/2024 15:21	59202	THOM_T1	6	24	18	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/11/2024 15:21	65904	SAKR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/11/2024 15:21	65901	SAKR_T2	1	1	0	7.2	7.8	0.6	-0.99	-0.99	1	2	1	900	1500	600
6/11/2024 15:21	44201	POIN_T1	63	91	28	0.19	0.18	-0.01	-4.75	-4.82	4	4	0	4200	4200	0
6/11/2024 15:22	20403	ASHF_T2	0	1	1	0	0.1	0.1	1.08	1.07	0	0	0	0	0	0
6/11/2024 15:22	16302	ALPA_T2	0	0	0	0	0	0	1.09	1.1	0	0	0	0	0	0
6/11/2024 15:22	56504	ROCK_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/11/2024 15:22	58006	WCAR_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/11/2024 15:22	58001	WCAR_T1	8	14	6	0.88	0.65	-0.23	0	0	0	0	0	0	0	0
6/11/2024 15:22	56501	ROCK_T2	4	4	0	2.38	2.15	-0.23	0.16	0.17	0	0	0	0	0	0
6/11/2024 15:22	20401	ASHF_T2	2	4	2	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/11/2024 15:22	58003	WCAR_T1	60	61	1	0.31	0.34	0.03	0.91	0.93	0	0	0	0	0	0
6/11/2024 15:23	16302	ALPA_T2	0	0	0	0	0	0	2.18	2.2	0	0	0	0	0	0
6/11/2024 15:24	56504	ROCK_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/11/2024 15:24	59202	THOM_T1	6	24	18	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/11/2024 15:24	16302	ALPA_T2	0	0	0	0	0	0	1.09	1.1	0	0	0	0	0	0
6/11/2024 15:24	60801	BUCK_T1	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
6/11/2024 15:24	56501	ROCK_T2	4	4	0	2.38	2.15	-0.23	0.16	0.17	0	0	0	0	0	0
6/11/2024 15:24	60803	BUCK_T1	9	4	-5	0.18	0.1	-0.08	-1.1	-1.1	1	1	0	600	600	0
6/11/2024 15:25	60801	BUCK_T1	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
6/11/2024 15:25	60803	BUCK_T1	9	4	-5	0.18	0.1	-0.08	-2.21	-2.2	2	2	0	1200	1200	0
6/11/2024 15:26	42001	MNVL_T2	0	0	0	0	0	0	0.16	0.25	0	0	0	0	0	0
6/11/2024 15:26	42002	MNVL_T2	1	1	0	3.1	2.8	-0.3	0	0	0	0	0	0	0	0
6/11/2024 15:27	23203	HIRU_T2	5	14	9	0.16	0.21	0.05	0.15	0.15	0	0	0	0	0	0
6/11/2024 15:27	60801	BUCK_T1	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
6/11/2024 15:27	60803	BUCK_T1	9	4	-5	0.18	0.1	-0.08	-1.1	-1.1	1	1	0	600	600	0
6/11/2024 15:27	23202	HIRU_T2	9	17	8	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/11/2024 15:27	23201	HIRU_T2	6	29	23	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
6/11/2024 15:28	12604	MACA_T1	0	1	1	0	0.5	0.5	0.57	0.58	0	0	0	0	0	0
6/11/2024 15:28	12602	MACA_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/11/2024 15:28	12601	MACA_T1	0	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0
6/11/2024 15:30	64704	LITI_T1	0	0	0	0	0	0	0.13	0.19	1	1	0	600	600	0
6/11/2024 15:31	12601	MACA_T1	0	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0
6/11/2024 15:31	12602	MACA_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/11/2024 15:31	12604	MACA_T1	1	1	0	0.5	0.4	-0.1	0.57	0.58	0	0	0	0	0	0
6/11/2024 15:32	12602	MACA_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/11/2024 15:32	12601	MACA_T1	0	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0
6/11/2024 15:32	12604	MACA_T1	1	1	0	0.5	0.4	-0.1	0.57	0.58	0	0	0	0	0	0
6/11/2024 15:34	57104	SPHI_T2	1	2	1	1.9	1.2	-0.7	-0.15	-0.12	0	0	0	0	0	0
6/11/2024 15:34	41902	REED_T1	0	0	0	0	0	0	1.22	1.22	0	0	0	0	0	0
6/11/2024 15:34	57101	SPHI_T2	6	6	0	0.38	0.43	0.05	0	0	0	0	0	0	0	0
6/11/2024 15:34	57106	SPHI_T2	3	3	0	1.53	1.7	0.17	0	0	0	0	0	0	0	0
6/11/2024 15:35	24204	PROV_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
6/11/2024 15:35	24201	PROV_T3	1	1	0	6.8	6.8	0	-1.2	-1.21	1	1	0	1200	1200	0
6/11/2024 15:36	41902	REED_T1	0	0	0	0	0	0	1.22	1.22	0	0	0	0	0	0
6/11/2024 15:37	57104	SPHI_T2	1	2	1	1.9	1.2	-0.7	0	0	0	0	0	0	0	0
6/11/2024 15:37	57101	SPHI_T2	6	6	0	0.38	0.43	0.05	0.37	0.38	0	0	0	0	0	0
6/11/2024 15:37	57106	SPHI_T2	3	3	0	1.53	1.7	0.17	0	0	0	0	0	0	0	0
6/11/2024 15:38	58006	WCAR_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
6/11/2024 15:42	40701	FFLD_T1	53	36	-17	0.6	0.72	0.12	0	0	0	0	0	0	0	0
6/11/2024 15:42	40702	FFLD_T1	118	113	-5	0.34	0.32	-0.02	-1.02	-0.3	1	1	0	1200	1200	0
6/11/2024 15:42	40703	FFLD_T1	4	4	0	0.63	0.55	-0.08	0	0	0	0	0	0	0	0
6/11/2024 15:49	13503	MCMI_T2	4	2	-2	0.18	0.35	0.17	-0.01	-0.01	0	0	0	0	0	0
6/11/2024 15:50	13503	MCMI_T2	4	2	-2	0.18	0.35	0.17	-0.01	-0.01	0	0	0	0	0	0
6/11/2024 15:50	56601	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 15:52	44301	BEAV_T2	0	0	0	0	0	0	0.57	0.56	1	1	0	600	600	0
6/11/2024 15:52	56601	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 15:52	45602	WOOL_T1	2	14	12	0.2	0.2	0	1.34	1.33	0	0	0	0	0	0
6/11/2024 15:53	67805	WLAN_T1	0	0	0	0	0	0	-1.06	-1.13	0	0	0	0	0	0
6/11/2024 15:53	55105	WERT_T1	0	0	0	0	0	0	-0.37	-0.36	1	1	0	900	900	0
6/11/2024 15:54	61801	EELI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 15:54	43704	WILL_T1	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
6/11/2024 15:54	45602	WOOL_T1	2	14	12	0.2	0.2	0	0.67	0.67	0	0	0	0	0	0
6/11/2024 15:54	61803	EELI_T2	0	0	0	0	0	0	0.38	0.37	1	1	0	600	600	0
6/11/2024 15:54	43701	WILL_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
6/11/2024 15:54	55102	WERT_T2	0	0	0	0	0	0	-0.75	-0.82	2	2	0	1200	1200	0
6/11/2024 15:54	43705	WILL_T1	2	3	1	1.25	1.4	0.15	0	0	0	0	0	0	0	0
6/11/2024 15:55	62106	ELAN_T1	0	0	0	0	0	0	0.27	0.19	0	0	0	0	0	0
6/11/2024 15:55	62105	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 15:57	45602	WOOL_T1	2	14	12	0.2	0.2	0	0.67	0.67	0	0	0	0	0	0
6/11/2024 15:58	16006	DORN_T2	0	0	0	0	0	0	-0.37	-0.39	1	1	0	1200	1200	0
6/11/2024 15:59	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 15:59	21206	ECAR_T2	2	1	-1	4.15	8.2	4.05	-0.56	-0.55	0	0	0	0	0	0
6/11/2024 15:59	16006	DORN_T2	0	0	0	0	0	0	-0.37	-0.39	1	1	0	1200	1200	0
6/11/2024 16:00	59301	MCAL_T1	2	6	4	0.9	0.7	-0.2	-1.13	-1.14	0	0	0	0	0	0
6/11/2024 16:00	62105	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/11/2024 16:00	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 16:03	13501	MCMI_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
6/11/2024 16:03	13502	MCMI_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/11/2024 16:04	42201	SHEN_T2	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
6/11/2024 16:08	67801	WLAN_T1	0	0	0	0	0	0	0.39	0.45	0	0	0	0	0	0
6/11/2024 16:09	67803	WLAN_T1	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
6/11/2024 16:11	29402	BELT_T1	1	2	1	8.5	4.45	-4.05	0	0	0	0	0	0	0	0
6/11/2024 16:11	29401	BELT_T1	43	66	23	0.2	0.25	0.05	0	0	1	1	0	900	900	0
6/11/2024 16:15	29402	BELT_T1	2	1	-1	4.45	8.3	3.85	0	0	0	0	0	0	0	0
6/11/2024 16:15	29401	BELT_T1	65	58	-7	0.24	0.24	0	0	0	1	1	0	900	900	0
6/11/2024 16:16	40101	HUNT_T2	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
6/11/2024 16:16	55002	NEWP_T1	7	27	20	0.86	0.81	-0.05	-0.21	-0.21	0	0	0	0	0	0
6/11/2024 16:17	55002	NEWP_T1	7	27	20	0.86	0.81	-0.05	-0.21	-0.21	0	0	0	0	0	0
6/11/2024 16:18	60801	BUCK_T1	1	4	3	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
6/11/2024 16:18	60803	BUCK_T1	6	10	4	0.22	0.32	0.1	-1.1	-1.1	1	1	0	600	600	0
6/11/2024 16:19	55003	NEWP_T2	14	14	0	0.75	0.66	-0.09	0.03	0.04	0	0	0	0	0	0
6/11/2024 16:19	55002	NEWP_T1	7	27	20	0.86	0.81	-0.05	-0.21	-0.21	0	0	0	0	0	0
6/11/2024 16:20	60501	NMAN_T2	3	3	0	4.5	4.5	0	0	0	0	0	0	0	0	0
6/11/2024 16:20	60502	NMAN_T2	0	0	0	0	0	0	-0.11	-0.18	0	0	0	0	0	0
6/11/2024 16:20	67106	SPRI_T2	0	0	0	0	0	0	-1.1	-1.1	1	1	0	900	900	0
6/11/2024 16:21	55002	NEWP_T1	7	27	20	0.86	0.81	-0.05	-0.21	-0.21	0	0	0	0	0	0
6/11/2024 16:21	67106	SPRI_T2	0	0	0	0	0	0	-1.1	-1.1	1	1	0	900	900	0
6/11/2024 16:23	43801	SWIL_T1	2	28	26	3.15	0.41	-2.74	0	0	0	0	0	0	0	0
6/11/2024 16:23	67106	SPRI_T2	0	0	0	0	0	0	-1.1	-1.1	1	1	0	900	900	0
6/11/2024 16:23	43802	SWIL_T1	0	0	0	0	0	0	-0.15	-0.15	1	1	0	600	600	0
6/11/2024 16:25	45802	HEGI_T2	18	42	24	0.4	0.83	0.43	0.37	0.02	2	2	0	1200	1200	0
6/11/2024 16:27	41801	GOCI_T2	7	14	7	0.16	0.21	0.05	0	0	0	0	0	0	0	0
6/11/2024 16:27	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
6/11/2024 16:28	29401	BELT_T1	65	58	-7	0.24	0.24	0	0	0	0	0	0	0	0	0
6/11/2024 16:28	41801	GOCI_T2	7	14	7	0.16	0.21	0.05	0	0	0	0	0	0	0	0
6/11/2024 16:28	29402	BELT_T1	2	1	-1	4.45	8.3	3.85	0	0	0	0	0	0	0	0
6/11/2024 16:28	53302	GRAT_T2	5	6	1	0.34	0.38	0.04	0	0	0	0	0	0	0	0
6/11/2024 16:36	51402	LYKE_T1	0	0	0	0	0	0	-1.34	-1.35	1	1	0	600	600	0
6/11/2024 16:37	67103	SPRI_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
6/11/2024 16:39	42201	SHEN_T2	0	1	1	0	0.1	0.1	0.62	0.61	0	0	0	0	0	0
6/11/2024 16:39	45602	WOOL_T1	1	1	0	0.1	0.2	0.1	0.66	0.65	0	0	0	0	0	0
6/11/2024 16:40	10602	BLGL_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
6/11/2024 16:40	60803	BUCK_T1	5	10	5	0.12	0.32	0.2	0	0	0	0	0	0	0	0
6/11/2024 16:40	60801	BUCK_T1	1	5	4	0.2	0.12	-0.08	-0.74	-0.75	1	1	0	600	600	0
6/11/2024 16:41	11102	EGYP_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
6/11/2024 16:41	45602	WOOL_T1	1	1	0	0.1	0.2	0.1	0.66	0.65	0	0	0	0	0	0
6/11/2024 16:42	63305	GREE_T1	1	0	-1	0.1	0	-0.1	-3.5	-3.36	2	2	0	1800	1800	0
6/11/2024 16:42	11102	EGYP_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
6/11/2024 16:43	48902	FOSP_T2	0	0	0	0	0	0	0.12	0.03	0	0	0	0	0	0
6/11/2024 16:43	48901	FOSP_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 16:44	63305	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 16:44	63401	HONY_T1	0	0	0	0	0	0	0.61	0.54	0	0	0	0	0	0
6/11/2024 16:44	63306	GREE_T1	0	0	0	0	0	0	-1.86	-1.88	1	1	0	900	900	0
6/11/2024 16:44	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.39	0.39	2	2	0	1800	1800	0
6/11/2024 16:44	11103	EGYP_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
6/11/2024 16:45	64902	MILL_T2	0	0	0	0	0	0	-0.47	-0.47	1	1	0	900	900	0
6/11/2024 16:49	64902	MILL_T2	0	0	0	0	0	0	-0.47	-0.47	1	1	0	900	900	0
6/11/2024 16:49	52004	LING_T2	1	0	-1	0.1	0	-0.1	0.19	0.19	0	0	0	0	0	0
6/11/2024 16:50	44701	MUNC_T2	0	0	0	0	0	0	-1.31	-1.32	0	0	0	0	0	0
6/11/2024 16:50	44703	MUNC_T2	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/11/2024 16:53	44302	BEAV_T2	1	1	0	0.6	0.2	-0.4	1.08	1.06	0	0	0	0	0	0
6/11/2024 16:54	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 16:59	22901	HARW_T1	0	0	0	0	0	0	-0.56	-0.54	1	1	0	1200	1200	0
6/11/2024 17:01	22901	HARW_T1	0	0	0	0	0	0	-0.56	-0.54	1	1	0	1200	1200	0
6/11/2024 17:01	48901	FOSP_T2	0	1	1	0	0.2	0.2	-0.37	-0.37	1	1	0	600	600	0
6/11/2024 17:05	67605	WARW_T1	1	1	0	0.3	0.2	-0.1	-0.73	-0.73	0	0	0	0	0	0
6/11/2024 17:07	65802	RTWN_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
6/11/2024 17:07	65803	RTWN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/11/2024 17:10	44301	BEAV_T2	0	0	0	0	0	0	1.31	1.21	2	2	0	1200	1200	0
6/11/2024 17:10	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/11/2024 17:12	14404	SSLA_T1	1	1	0	5.2	5.3	0.1	0.05	0.05	0	0	0	0	0	0
6/11/2024 17:12	45802	HEGI_T2	13	28	15	0.25	0.64	0.39	0.13	0.29	2	2	0	1800	1800	0
6/11/2024 17:14	14404	SSLA_T1	1	1	0	5.2	5.3	0.1	0.05	0.05	0	0	0	0	0	0
6/11/2024 17:17	11103	EGYP_T1	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
6/11/2024 17:18	65802	RTWN_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
6/11/2024 17:18	52501	PROG_T1	0	0	0	0	0	0	0.7	0.72	1	1	0	300	300	0
6/11/2024 17:18	51002	NHAR_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
6/11/2024 17:18	51004	NHAR_T1	12	13	1	0.81	0.75	-0.06	0	0	0	0	0	0	0	0
6/11/2024 17:18	65803	RTWN_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/11/2024 17:18	51003	NHAR_T1	0	0	0	0	0	0	-1.24	-1.32	1	1	0	1200	1200	0
6/11/2024 17:21	52501	PROG_T1	0	0	0	0	0	0	0.7	0.72	1	1	0	300	300	0
6/11/2024 17:22	52501	PROG_T1	0	0	0	0	0	0	0.72	0.68	1	1	0	300	300	0
6/11/2024 17:27	21203	ECAR_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
6/11/2024 17:28	45602	WOOL_T1	1	0	-1	0.2	0	-0.2	0.65	0.64	0	0	0	0	0	0
6/11/2024 17:35	56802	BENV_T2	246	225	-21	0.32	0.3	-0.02	-1.2	-1.21	0	0	0	0	0	0
6/11/2024 17:37	42201	SHEN_T2	1	0	-1	0.1	0	-0.1	1.18	1.16	0	0	0	0	0	0
6/11/2024 17:37	56802	BENV_T2	246	225	-21	0.32	0.3	-0.02	-3.63	-1.53	0	0	0	0	0	0
6/11/2024 17:38	11103	EGYP_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
6/11/2024 17:38	56802	BENV_T2	246	225	-21	0.32	0.3	-0.02	-3.63	-1.53	0	0	0	0	0	0
6/11/2024 17:38	42201	SHEN_T2	1	0	-1	0.1	0	-0.1	0.59	0.58	0	0	0	0	0	0
6/11/2024 17:45	64904	MILL_T1	0	0	0	0	0	0	-0.1	-0.01	0	0	0	0	0	0
6/11/2024 17:55	25603	ARRO_T1	27	38	11	0.17	0.23	0.06	0	0	0	0	0	0	0	0
6/11/2024 17:55	25601	ARRO_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
6/11/2024 17:56	43705	WILL_T1	2	2	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
6/11/2024 17:56	43701	WILL_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
6/11/2024 17:56	43704	WILL_T1	1	1	0	1.6	2	0.4	0	0	0	0	0	0	0	0
6/11/2024 17:56	61103	BERK_T5	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
6/11/2024 17:56	43703	WILL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 17:58	46506	LOHA_T1	1	1	0	0.3	0.5	0.2	-0.36	-0.36	0	0	0	0	0	0
6/11/2024 17:58	46504	LOHA_T1	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/11/2024 17:59	64501	LAVI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 17:59	64503	LAVI_T1	0	0	0	0	0	0	-2.76	-3.16	2	2	0	2400	2400	0
6/11/2024 18:00	64503	LAVI_T1	0	0	0	0	0	0	-1.38	-1.58	1	1	0	1200	1200	0
6/11/2024 18:00	64501	LAVI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 18:02	59002	MIFF_T1	6	5	-1	0.8	0.16	-0.64	0	0	0	0	0	0	0	0
6/11/2024 18:02	59003	MIFF_T1	1	1	0	0.8	0.1	-0.7	-0.04	0.71	0	0	0	0	0	0
6/11/2024 18:02	64503	LAVI_T1	0	0	0	0	0	0	-1.38	-1.58	1	1	0	1200	1200	0
6/11/2024 18:02	64501	LAVI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 18:03	64503	LAVI_T1	0	0	0	0	0	0	-1.38	-1.58	1	1	0	1200	1200	0
6/11/2024 18:03	64501	LAVI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 18:12	29401	BELT_T1	49	1	-48	0.25	0.1	-0.15	0	0	1	1	0	900	900	0
6/11/2024 18:12	29402	BELT_T1	1	1	0	8.2	7.5	-0.7	0	0	0	0	0	0	0	0
6/11/2024 18:12	60902	DONG_T2	0	0	0	0	0	0	0.97	0.94	0	0	0	0	0	0
6/11/2024 18:12	60904	DONG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 18:16	64501	LAVI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/11/2024 18:16	65003	NEFF_T2	5	4	-1	0.3	0.3	0	-1.71	-1.77	2	2	0	1800	1800	0
6/11/2024 18:16	64503	LAVI_T1	0	0	0	0	0	0	-1.58	-1.55	1	1	0	1200	1200	0
6/11/2024 18:19	65001	NEFF_T2	0	0	0	0	0	0	-0.38	-0.47	1	1	0	1200	1200	0
6/11/2024 18:19	65702	RVIL_T2	0	0	0	0	0	0	-0.72	-0.72	1	1	0	600	600	0
6/11/2024 18:19	65003	NEFF_T2	5	4	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
6/11/2024 18:20	57203	ROSS_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
6/11/2024 18:20	65004	NEFF_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
6/11/2024 18:20	65003	NEFF_T2	5	4	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
6/11/2024 18:26	46504	LOHA_T1	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
6/11/2024 18:26	57203	ROSS_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
6/11/2024 18:26	46506	LOHA_T1	1	1	0	0.2	0.2	0	-0.36	-0.36	0	0	0	0	0	0
6/11/2024 18:28	46504	LOHA_T1	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
6/11/2024 18:28	46506	LOHA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/11/2024 18:28	46502	LOHA_T1	0	0	0	0	0	0	0.03	0.02	1	1	0	1200	1200	0
6/11/2024 18:31	55001	NEWP_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
6/11/2024 18:31	64601	LEOL_T1	0	0	0	0	0	0	-1.51	-1.51	1	1	0	1200	1200	0
6/11/2024 18:31	55002	NEWP_T1	6	5	-1	0.95	1.32	0.37	0	0	0	0	0	0	0	0
6/11/2024 18:34	55002	NEWP_T1	6	5	-1	0.95	1.32	0.37	0	0	0	0	0	0	0	0
6/11/2024 18:34	55001	NEWP_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
6/11/2024 18:38	67103	SPRI_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
6/11/2024 18:38	27502	WEIS_T2	0	0	0	0	0	0	-1.28	-1.29	0	0	0	0	0	0
6/11/2024 18:43	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/11/2024 18:43	29402	BELT_T1	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
6/11/2024 18:44	26703	HEML_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	600	600	0
6/11/2024 18:46	21203	ECAR_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
6/11/2024 18:48	46602	LACR_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
6/11/2024 18:48	40902	JESH_T1	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
6/11/2024 18:53	67103	SPRI_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
6/11/2024 18:53	46001	BERW_T1	0	0	0	0	0	0	0.74	0.73	0	0	0	0	0	0
6/11/2024 18:53	17102	WTRE_T2	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
6/11/2024 18:53	17101	WTRE_T2	5	28	23	3.64	0.78	-2.86	0	0	0	0	0	0	0	0
6/11/2024 18:55	17101	WTRE_T2	5	28	23	3.64	0.78	-2.86	0	0	0	0	0	0	0	0
6/11/2024 18:55	17102	WTRE_T2	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
6/11/2024 18:57	12606	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 18:57	12601	MACA_T1	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
6/11/2024 18:59	29402	BELT_T1	1	1	0	7.3	7.4	0.1	0	0	0	0	0	0	0	0
6/11/2024 18:59	10102	ALLE_T2	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
6/11/2024 18:59	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 18:59	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/11/2024 19:00	64202	KINZ_T1	0	9	9	0	0.23	0.23	0	0	0	0	0	0	0	0
6/11/2024 19:00	64203	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 19:00	64204	KINZ_T1	2	28	26	0.7	0.29	-0.41	0	0	0	0	0	0	0	0
6/11/2024 19:00	64201	KINZ_T1	5	15	10	0.32	0.36	0.04	-0.25	-0.24	2	2	0	1200	1200	0
6/11/2024 19:04	58001	WCAR_T1	13	20	7	0.68	0.61	-0.07	0	0	0	0	0	0	0	0
6/11/2024 19:04	58003	WCAR_T1	53	85	32	0.29	0.41	0.12	0.72	0.7	0	0	0	0	0	0
6/11/2024 19:06	59202	THOM_T1	117	163	46	0.16	0.17	0.01	0	0	0	0	0	0	0	0
6/11/2024 19:06	59201	THOM_T1	15	16	1	0.21	0.22	0.01	0	0	0	0	0	0	0	0
6/11/2024 19:06	58003	WCAR_T1	53	85	32	0.29	0.41	0.12	0.72	0.7	0	0	0	0	0	0
6/11/2024 19:06	58001	WCAR_T1	13	20	7	0.68	0.61	-0.07	0	0	0	0	0	0	0	0
6/11/2024 19:06	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 19:08	58001	WCAR_T1	13	20	7	0.68	0.61	-0.07	0	0	0	0	0	0	0	0
6/11/2024 19:08	58003	WCAR_T1	53	85	32	0.29	0.41	0.12	0.7	0.69	0	0	0	0	0	0
6/11/2024 19:14	40902	JESH_T1	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
6/11/2024 19:18	64204	KINZ_T1	28	8	-20	0.29	0.2	-0.09	0	0	0	0	0	0	0	0
6/11/2024 19:18	64202	KINZ_T1	9	2	-7	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
6/11/2024 19:18	64201	KINZ_T1	15	7	-8	0.36	0.27	-0.09	0	0	0	0	0	0	0	0
6/11/2024 19:18	64203	KINZ_T1	2	0	-2	0.1	0	-0.1	0.16	0.08	1	1	0	600	600	0
6/11/2024 19:22	65702	RVIL_T2	0	0	0	0	0	0	-0.72	-0.72	1	1	0	600	600	0
6/11/2024 19:22	65003	NEFF_T2	48	56	8	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
6/11/2024 19:22	57104	SPHI_T2	2	2	0	5.75	4.6	-1.15	0	0	0	0	0	0	0	0
6/11/2024 19:22	57103	SPHI_T2	0	0	0	0	0	0	-0.97	-0.9	0	0	0	0	0	0
6/11/2024 19:22	57106	SPHI_T2	3	3	0	1.6	1.77	0.17	0	0	0	0	0	0	0	0
6/11/2024 19:22	65001	NEFF_T2	0	0	0	0	0	0	-0.6	-0.6	1	1	0	1200	1200	0
6/11/2024 19:23	61103	BERK_T5	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
6/11/2024 19:23	67805	WLAN_T1	0	0	0	0	0	0	-1.19	-1.21	0	0	0	0	0	0
6/11/2024 19:25	61103	BERK_T5	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
6/11/2024 19:25	67805	WLAN_T1	0	0	0	0	0	0	-1.19	-1.21	0	0	0	0	0	0
6/11/2024 19:26	20402	ASHF_T2	8	16	8	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
6/11/2024 19:26	20401	ASHF_T2	10	12	2	0.57	0.54	-0.03	0	0	0	0	0	0	0	0
6/11/2024 19:26	20403	ASHF_T2	2	2	0	0.1	0.2	0.1	0.27	0.26	0	0	0	0	0	0
6/11/2024 19:27	46206	DANV_T2	0	0	0	0	0	0	3.39	3.38	1	1	0	1200	1200	0
6/11/2024 19:30	40902	JESH_T1	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
6/11/2024 19:37	20403	ASHF_T2	2	0	-2	0.2	0	-0.2	0.26	0.27	0	0	0	0	0	0
6/11/2024 19:37	20402	ASHF_T2	16	0	-16	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/11/2024 19:37	20401	ASHF_T2	12	6	-6	0.54	0.52	-0.02	0	0	0	0	0	0	0	0
6/11/2024 19:41	24104	EHAZ_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	1200	1200	0
6/11/2024 19:41	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/11/2024 19:41	67605	WARW_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/11/2024 19:41	24105	EHAZ_T1	4	4	0	6.15	5.98	-0.17	0	0	0	0	0	0	0	0
6/11/2024 19:50	13501	MCMI_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
6/11/2024 19:56	24802	VALM_T1	0	0	0	0	0	0	1.41	1.46	0	0	0	0	0	0
6/11/2024 19:57	29401	BELT_T1	3	15	12	0.1	0.14	0.04	0	0	1	1	0	900	900	0
6/11/2024 19:57	29402	BELT_T1	1	1	0	7.4	8.1	0.7	0	0	0	0	0	0	0	0
6/11/2024 19:58	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 19:58	62102	ELAN_T1	0	0	0	0	0	0	1.16	1.12	0	0	0	0	0	0
6/11/2024 19:58	62105	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 20:07	43304	WATS_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
6/11/2024 20:07	43302	WATS_T2	4	4	0	0.6	0.83	0.23	0	0	0	0	0	0	0	0
6/11/2024 20:13	29401	BELT_T1	3	16	13	0.1	0.14	0.04	0	0	1	1	0	900	900	0
6/11/2024 20:13	15701	TANN_T1	1	1	0	4.3	4.9	0.6	0	0	0	0	0	0	0	0
6/11/2024 20:13	15704	TANN_T1	0	0	0	0	0	0	-0.21	-0.27	0	0	0	0	0	0
6/11/2024 20:13	29402	BELT_T1	1	1	0	7.5	8.2	0.7	0	0	0	0	0	0	0	0
6/11/2024 20:14	15702	TANN_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
6/11/2024 20:14	62105	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 20:14	62102	ELAN_T1	0	0	0	0	0	0	1.12	1.04	0	0	0	0	0	0
6/11/2024 20:14	15703	TANN_T2	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
6/11/2024 20:14	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 20:17	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/11/2024 20:17	20601	GRWO_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
6/11/2024 20:18	67805	WLAN_T1	15	182	167	0.11	0.16	0.05	0	0	0	0	0	0	0	0
6/11/2024 20:18	67804	WLAN_T1	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
6/11/2024 20:21	27603	PIRI_T2	0	0	0	0	0	0	-0.83	-0.85	2	2	0	1800	1800	0
6/11/2024 20:36	57403	SPAN_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
6/11/2024 20:41	45902	AUBU_T1	0	0	0	0	0	0	1.98	2.03	2	2	0	1200	1200	0
6/11/2024 20:41	60201	ATGL_T2	0	0	0	0	0	0	0.2	0.26	1	1	0	300	300	0
6/11/2024 20:44	45002	LIME_2	1	1	0	4.5	4.5	0	0	0	0	0	0	0	0	0
6/11/2024 20:44	45003	LIME_2	2	2	0	2.3	2.55	0.25	0.3	0.31	0	0	0	0	0	0
6/11/2024 20:45	45902	AUBU_T1	0	0	0	0	0	0	-0.99	-1.02	1	1	0	600	600	0
6/11/2024 20:46	17802	GILB_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
6/11/2024 20:48	45003	LIME_2	2	2	0	2.45	2.45	0	0.3	0.31	0	0	0	0	0	0
6/11/2024 20:48	45002	LIME_2	1	1	0	4.5	4.2	-0.3	0	0	0	0	0	0	0	0
6/11/2024 20:50	13704	SCHN_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
6/11/2024 20:51	44703	MUNC_T2	2	2	0	0.7	0.85	0.15	0.8	0.71	0	0	0	0	0	0
6/11/2024 20:51	44702	MUNC_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 20:51	59101	WALK_T2	0	0	0	0	0	0	1.35	1.34	0	0	0	0	0	0
6/11/2024 20:51	44701	MUNC_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/11/2024 20:52	59101	WALK_T2	0	0	0	0	0	0	1.34	1.34	0	0	0	0	0	0
6/11/2024 20:52	13704	SCHN_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
6/11/2024 20:53	59101	WALK_T2	0	0	0	0	0	0	1.34	1.34	0	0	0	0	0	0
6/11/2024 20:54	59101	WALK_T2	0	0	0	0	0	0	1.34	1.34	0	0	0	0	0	0
6/11/2024 21:07	54601	SUMM_T2	0	0	0	0	0	0	0.29	0.32	1	1	0	900	900	0
6/11/2024 21:07	54601	SUMM_T2	8	13	5	0.34	0.58	0.24	0	0	0	0	0	0	0	0
6/11/2024 21:24	24801	VALM_T1	3	2	-1	0.1	0.1	0	-0.29	-0.31	0	0	0	0	0	0
6/11/2024 21:31	22901	HARW_T1	1	0	-1	5.5	0	-5.5	0	0	0	0	0	0	0	0
6/11/2024 21:31	22904	HARW_T1	0	0	0	0	0	0	-0.62	-0.67	0	0	0	0	0	0
6/11/2024 21:48	14404	SSLA_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
6/11/2024 21:48	14403	SSLA_T1	0	0	0	0	0	0	0.74	0.73	0	0	0	0	0	0
6/11/2024 21:50	14203	EALL_T1	0	0	0	0	0	0	-0.25	-0.27	1	1	0	1200	1200	0
6/11/2024 21:54	14203	EALL_T1	0	0	0	0	0	0	-0.27	-0.26	1	1	0	1200	1200	0
6/11/2024 21:59	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 21:59	46206	DANV_T2	0	0	0	0	0	0	3.3	3.29	1	1	0	1200	1200	0
6/11/2024 22:05	58401	MORO_T1	0	0	0	0	0	0	-1.03	-1.05	1	1	0	600	600	0
6/11/2024 22:05	67605	WARW_T1	29	14	-15	0.64	0.54	-0.1	-1.07	-1.09	0	0	0	0	0	0
6/11/2024 22:06	58401	MORO_T1	0	0	0	0	0	0	-1.03	-1.05	1	1	0	600	600	0
6/11/2024 22:07	67605	WARW_T1	29	14	-15	0.64	0.54	-0.1	-1.09	-1.1	0	0	0	0	0	0
6/11/2024 22:08	67605	WARW_T1	29	14	-15	0.64	0.54	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:08	67603	WARW_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
6/11/2024 22:09	67603	WARW_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
6/11/2024 22:09	67605	WARW_T1	29	14	-15	0.64	0.54	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:11	43301	WATS_T2	1	1	0	0.1	0.5	0.4	0.3	0.29	0	0	0	0	0	0
6/11/2024 22:11	42802	SELI_T1	1	1	0	0.3	1	0.7	-1.78	-1.71	2	2	0	1800	1800	0
6/11/2024 22:11	43302	WATS_T2	4	4	0	0.73	0.98	0.25	0	0	0	0	0	0	0	0
6/11/2024 22:12	67605	WARW_T1	29	14	-15	0.64	0.54	-0.1	-2.17	-2.2	0	0	0	0	0	0
6/11/2024 22:14	67605	WARW_T1	29	14	-15	0.64	0.54	-0.1	-1.09	-1.1	0	0	0	0	0	0
6/11/2024 22:14	22901	HARW_T1	0	0	0	0	0	0	-0.56	-0.28	1	1	0	1200	1200	0
6/11/2024 22:15	10805	CHHI_T2	1	1	0	7.7	7.8	0.1	-0.98	-1.03	1	1	0	600	600	0
6/11/2024 22:16	57203	ROSS_T1	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
6/11/2024 22:17	25402	LAHA_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/11/2024 22:17	25404	LAHA_T2	19	5	-14	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
6/11/2024 22:20	45402	WBLO_T2	25	70	45	0.27	0.31	0.04	-0.78	-0.79	0	0	0	0	0	0
6/11/2024 22:21	17002	RIRO_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
6/11/2024 22:21	10602	BLGL_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
6/11/2024 22:21	56802	BENV_T2	1	1	0	0.3	0.7	0.4	-0.64	-0.65	0	0	0	0	0	0
6/11/2024 22:23	46206	DANV_T2	0	1	1	0	0	0	3.29	3.28	1	1	0	1200	1200	0
6/11/2024 22:23	43301	WATS_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:23	43304	WATS_T2	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
6/11/2024 22:23	46205	DANV_T2	1	0	-1	9	0	-9	0	0	0	0	0	0	0	0
6/11/2024 22:23	43302	WATS_T2	4	4	0	0.63	0.98	0.35	0	0	0	0	0	0	0	0
6/11/2024 22:25	46506	LOHA_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/11/2024 22:25	46502	LOHA_T1	0	0	0	0	0	0	-0.05	-0.05	1	1	0	1200	1200	0
6/11/2024 22:25	46504	LOHA_T1	2	2	0	0.95	0.75	-0.2	0	0	0	0	0	0	0	0
6/11/2024 22:25	11103	EGYP_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
6/11/2024 22:25	45602	WOOL_T1	0	0	0	0	0	0	1.15	1.14	0	0	0	0	0	0
6/11/2024 22:26	13302	ORVI_T2	0	0	0	0	0	0	1.1	1.08	0	0	0	0	0	0
6/11/2024 22:26	46504	LOHA_T1	2	2	0	0.95	0.75	-0.2	0	0	0	0	0	0	0	0
6/11/2024 22:26	46506	LOHA_T1	1	1	0	0.8	0.5	-0.3	-0.41	-0.41	0	0	0	0	0	0
6/11/2024 22:27	67503	WEWI_T2	0	0	0	0	0	0	-0.18	-0.22	0	0	0	0	0	0
6/11/2024 22:27	12803	MICK_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/11/2024 22:27	11102	EGYP_T1	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
6/11/2024 22:27	11103	EGYP_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
6/11/2024 22:27	45602	WOOL_T1	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
6/11/2024 22:27	46504	LOHA_T1	2	2	0	0.95	0.75	-0.2	0	0	0	0	0	0	0	0
6/11/2024 22:27	12801	MICK_T1	0	0	0	0	0	0	-1.04	-1.05	1	1	0	600	600	0
6/11/2024 22:27	46506	LOHA_T1	1	1	0	0.8	0.5	-0.3	-0.41	-0.41	0	0	0	0	0	0
6/11/2024 22:27	46001	BERW_T1	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
6/11/2024 22:27	23202	HIRU_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
6/11/2024 22:27	67502	WEWI_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/11/2024 22:28	42002	MNVL_T2	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:28	47001	HUGH_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
6/11/2024 22:28	16101	BING_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
6/11/2024 22:28	42001	MNVL_T2	1	5	4	0.1	0.14	0.04	0.09	0.08	0	0	0	0	0	0
6/11/2024 22:28	11102	EGYP_T1	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
6/11/2024 22:28	67002	STHI_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
6/11/2024 22:28	65502	MOJO_T2	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
6/11/2024 22:29	13303	ORVI_T1	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
6/11/2024 22:29	15603	NSTR_T2	6	2	-4	0.13	0.1	-0.03	-0.55	-0.55	0	0	0	0	0	0
6/11/2024 22:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 22:29	42201	SHEN_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
6/11/2024 22:29	64904	MILL_T1	206	203	-3	0.25	0.23	-0.02	-0.27	-0.29	0	0	0	0	0	0
6/11/2024 22:29	15601	NSTR_T2	15	3	-12	0.39	1.13	0.74	0	0	0	0	0	0	0	0
6/11/2024 22:29	64901	MILL_T1	110	86	-24	0.34	0.3	-0.04	0	0	0	0	0	0	0	0
6/11/2024 22:29	62105	ELAN_T1	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
6/11/2024 22:29	46802	HEPB_T1	1	1	0	1	1.3	0.3	-0.24	-0.25	0	0	0	0	0	0
6/11/2024 22:30	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/11/2024 22:30	29402	BELT_T1	1	1	0	7.9	8.2	0.3	0	0	0	0	0	0	0	0
6/11/2024 22:30	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.98	-0.99	0	0	0	0	0	0
6/11/2024 22:30	67805	WLAN_T1	418	0	-418	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/11/2024 22:30	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.41	-0.42	2	2	0	1800	1800	0
6/11/2024 22:30	60803	BUCK_T1	0	0	0	0	0	0	-0.5	-0.5	1	1	0	600	600	0
6/11/2024 22:30	53302	GRAT_T2	7	8	1	0.4	0.44	0.04	0	0	0	0	0	0	0	0
6/11/2024 22:30	46504	LOHA_T1	2	2	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:30	67802	WLAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:30	46506	LOHA_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/11/2024 22:30	21206	ECAR_T2	1	1	0	8	8.2	0.2	-0.17	-0.18	0	0	0	0	0	0
6/11/2024 22:30	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:30	67002	STHI_T2	0	0	0	0	0	0	-1.35	-1.38	0	0	0	0	0	0
6/11/2024 22:30	48902	FOSP_T2	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
6/11/2024 22:30	45502	DERR_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/11/2024 22:30	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
6/11/2024 22:30	62104	ELAN_T1	0	0	0	0	0	0	0.36	0.35	2	2	0	2400	2400	0
6/11/2024 22:30	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
6/11/2024 22:30	62102	ELAN_T1	0	0	0	0	0	0	0.87	0.85	0	0	0	0	0	0
6/11/2024 22:30	21204	ECAR_T2	1	1	0	0	0.5	0.5	0	0	0	0	0	0	0	0
6/11/2024 22:31	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.41	-0.42	2	2	0	1800	1800	0
6/11/2024 22:31	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.16	1	1	0	600	600	0
6/11/2024 22:31	45602	WOOL_T1	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
6/11/2024 22:31	67106	SPRI_T2	0	0	0	0	0	0	-1.26	-1.27	1	1	0	900	900	0
6/11/2024 22:31	14802	TREI_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
6/11/2024 22:31	67502	WEWI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:31	60101	COCA_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
6/11/2024 22:31	13501	MCMI_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
6/11/2024 22:31	45502	DERR_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/11/2024 22:31	65503	MOJO_T2	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
6/11/2024 22:31	67503	WEWI_T2	0	0	0	0	0	0	-0.18	-0.22	0	0	0	0	0	0
6/11/2024 22:31	42201	SHEN_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
6/11/2024 22:31	43801	SWIL_T1	30	2	-28	0.37	3.25	2.88	0	0	0	0	0	0	0	0
6/11/2024 22:31	60801	BUCK_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
6/11/2024 22:31	46001	BERW_T1	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
6/11/2024 22:31	16302	ALPA_T2	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
6/11/2024 22:31	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
6/11/2024 22:31	14603	SWHI_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	600	600	0
6/11/2024 22:32	65004	NEFF_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
6/11/2024 22:32	12604	MACA_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
6/11/2024 22:32	60801	BUCK_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
6/11/2024 22:32	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	-1.96	-1.98	0	0	0	0	0	0
6/11/2024 22:32	20401	ASHF_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/11/2024 22:32	10801	CHHI_T1	0	0	0	0	0	0	-0.82	-0.86	1	1	0	900	900	0
6/11/2024 22:32	12601	MACA_T1	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
6/11/2024 22:32	57104	SPHI_T2	1	1	0	2.7	2.4	-0.3	0	0	0	0	0	0	0	0
6/11/2024 22:32	20403	ASHF_T2	0	0	0	0	0	0	0.11	0.19	0	0	0	0	0	0
6/11/2024 22:32	44201	POIN_T1	228	378	150	0.22	0.26	0.04	-2.29	-2.28	2	2	0	2100	2100	0
6/11/2024 22:32	15602	NSTR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 22:32	14801	TREI_T2	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
6/11/2024 22:32	16006	DORN_T2	0	0	0	0	0	0	1.63	1.61	0	0	0	0	0	0
6/11/2024 22:32	25603	ARRO_T1	30	30	0	0.18	0.19	0.01	0	0	0	0	0	0	0	0
6/11/2024 22:32	14401	SSLA_T1	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
6/11/2024 22:32	65001	NEFF_T2	0	0	0	0	0	0	-0.73	-0.77	1	1	0	1200	1200	0
6/11/2024 22:32	67802	WLAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:32	14404	SSLA_T1	1	1	0	5.1	5.3	0.2	0.01	0.01	0	0	0	0	0	0
6/11/2024 22:32	15601	NSTR_T2	3	3	0	0.8	1.37	0.57	0	0	0	0	0	0	0	0
6/11/2024 22:32	43301	WATS_T2	1	2	1	0.4	0.1	-0.3	0.29	0.29	0	0	0	0	0	0
6/11/2024 22:32	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.8	-0.81	0	0	0	0	0	0
6/11/2024 22:32	57101	SPHI_T2	6	6	0	0.45	0.8	0.35	0.28	0.27	0	0	0	0	0	0
6/11/2024 22:32	67002	STHI_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
6/11/2024 22:32	57106	SPHI_T2	3	3	0	1.7	2.1	0.4	0	0	0	0	0	0	0	0
6/11/2024 22:32	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
6/11/2024 22:32	59202	THOM_T1	0	34	34	0	0.14	0.14	0	0	0	0	0	0	0	0
6/11/2024 22:32	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.41	-0.42	2	2	0	1800	1800	0
6/11/2024 22:32	45502	DERR_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/11/2024 22:32	63501	HEID_TBK1-2	0	59	59	0	0.56	0.56	0.41	-0.46	0	1	1	0	900	900
6/11/2024 22:32	43302	WATS_T2	4	4	0	0.98	0.33	-0.65	0	0	0	0	0	0	0	0
6/11/2024 22:32	15603	NSTR_T2	2	3	1	0.1	0.17	0.07	0	0	0	0	0	0	0	0
6/11/2024 22:32	64902	MILL_T2	0	0	0	0	0	0	-0.56	-0.58	1	1	0	900	900	0
6/11/2024 22:32	67805	WLAN_T1	418	0	-418	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/11/2024 22:32	59201	THOM_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
6/11/2024 22:32	25601	ARRO_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
6/11/2024 22:33	53501	EVIL_T2	1	2	1	1.4	1.1	-0.3	0.32	0.28	0	0	0	0	0	0
6/11/2024 22:33	46602	LACR_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
6/11/2024 22:33	29402	BELT_T1	1	1	0	7.9	8.2	0.3	0	0	0	0	0	0	0	0
6/11/2024 22:33	44201	POIN_T1	228	378	150	0.22	0.26	0.04	-2.29	-2.28	2	2	0	2100	2100	0
6/11/2024 22:33	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/11/2024 22:33	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
6/11/2024 22:33	65802	RTWN_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
6/11/2024 22:33	21206	ECAR_T2	1	1	0	8	8.2	0.2	-0.17	-0.18	0	0	0	0	0	0
6/11/2024 22:33	67002	STHI_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
6/11/2024 22:33	67106	SPRI_T2	0	0	0	0	0	0	-1.26	-1.27	1	1	0	900	900	0
6/11/2024 22:33	63305	GREE_T1	0	0	0	0	0	0	-1	-1.03	0	0	0	0	0	0
6/11/2024 22:33	21204	ECAR_T2	1	1	0	0	0.5	0.5	0	0	0	0	0	0	0	0
6/11/2024 22:33	14404	SSLA_T1	1	1	0	5.1	5.3	0.2	0.01	0.01	0	0	0	0	0	0
6/11/2024 22:34	49804	UNIV_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:34	62104	ELAN_T1	0	0	0	0	0	0	0.18	0.18	1	1	0	1200	1200	0
6/11/2024 22:34	15702	TANN_T2	0	8	8	0	0.1	0.1	-0.44	-0.43	0	0	0	0	0	0
6/11/2024 22:34	67503	WEWI_T2	0	0	0	0	0	0	-0.18	-0.22	0	0	0	0	0	0
6/11/2024 22:34	64503	LAVI_T1	0	0	0	0	0	0	-1.69	-1.64	1	1	0	1200	1200	0
6/11/2024 22:34	43705	WILL_T1	2	2	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
6/11/2024 22:34	49803	UNIV_T1	1	0	-1	0.1	0	-0.1	-1.13	0.13	0	0	0	0	0	0
6/11/2024 22:34	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
6/11/2024 22:34	67805	WLAN_T1	418	0	-418	0.23	0	-0.23	-1.36	-1.38	0	0	0	0	0	0
6/11/2024 22:34	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 22:34	67002	STHI_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
6/11/2024 22:34	61103	BERK_T5	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
6/11/2024 22:34	15703	TANN_T2	1	1	0	4.8	4.7	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:34	60101	COCA_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
6/11/2024 22:34	43704	WILL_T1	1	1	0	1.6	1.1	-0.5	0	0	0	0	0	0	0	0
6/11/2024 22:34	43703	WILL_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 22:34	67502	WEWI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:34	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 22:34	63304	GREE_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
6/11/2024 22:34	14404	SSLA_T1	1	1	0	5.1	5.3	0.2	0.01	0.01	0	0	0	0	0	0
6/11/2024 22:34	57401	SPAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 22:34	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:34	62106	ELAN_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
6/11/2024 22:34	40902	JESH_T1	12	0	-12	0.12	0	-0.12	-0.83	-0.84	0	0	0	0	0	0
6/11/2024 22:34	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/11/2024 22:34	46206	DANV_T2	1	0	-1	0.6	0	-0.6	3.29	3.28	1	1	0	1200	1200	0
6/11/2024 22:34	67802	WLAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:34	10102	ALLE_T2	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:34	44201	POIN_T1	228	378	150	0.22	0.26	0.04	-2.29	-2.28	2	2	0	2100	2100	0
6/11/2024 22:34	57403	SPAN_T1	0	6	6	0	0.12	0.12	0.06	0.05	0	0	0	0	0	0
6/11/2024 22:34	43701	WILL_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
6/11/2024 22:34	53601	DALM_T2	1	1	0	0.2	0.6	0.4	0.28	0.58	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/11/2024 22:34	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.8	-0.81	0	0	0	0	0	0
6/11/2024 22:34	60801	BUCK_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
6/11/2024 22:34	20401	ASHF_T2	0	2	2	0	0.25	0.25	-0.21	-0.22	0	0	0	0	0	0
6/11/2024 22:34	16302	ALPA_T2	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
6/11/2024 22:34	67106	SPRI_T2	0	0	0	0	0	0	-1.26	-1.27	1	1	0	900	900	0
6/11/2024 22:34	43201	MVIL_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
6/11/2024 22:35	11507	FREE_T2	0	2	2	0	0.85	0.85	1.56	1.59	0	0	0	0	0	0
6/11/2024 22:35	16103	BING_T2	0	0	0	0	0	0	-0.91	-0.92	2	2	0	1500	1500	0
6/11/2024 22:35	47001	HUGH_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
6/11/2024 22:35	16302	ALPA_T2	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
6/11/2024 22:35	67802	WLAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:35	46001	BERW_T1	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
6/11/2024 22:35	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
6/11/2024 22:35	60101	COCA_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
6/11/2024 22:35	64201	KINZ_T1	5	5	0	0.42	0.46	0.04	-0.05	-0.04	1	1	0	900	900	0
6/11/2024 22:35	61103	BERK_T5	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
6/11/2024 22:35	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.8	-0.81	0	0	0	0	0	0
6/11/2024 22:35	63404	HONY_T1	0	7	7	0	0.14	0.14	0	0	0	0	0	0	0	0
6/11/2024 22:35	16102	BING_T2	0	0	0	0	0	0	0.97	0.93	0	0	0	0	0	0
6/11/2024 22:35	64204	KINZ_T1	3	4	1	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
6/11/2024 22:35	53501	EVIL_T2	1	2	1	1.4	1.1	-0.3	-0.32	-0.28	0	0	0	0	0	0
6/11/2024 22:35	52002	LING_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
6/11/2024 22:35	66504	SMAN_T2	0	0	0	0	0	0	-0.34	-0.45	0	0	0	0	0	0
6/11/2024 22:35	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 22:35	52006	LING_T2	2	2	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/11/2024 22:35	62102	ELAN_T1	0	0	0	0	0	0	0.87	0.85	0	0	0	0	0	0
6/11/2024 22:35	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:35	27502	WEIS_T2	0	0	0	0	0	0	-1.64	-1.67	0	0	0	0	0	0
6/11/2024 22:35	63401	HONY_T1	0	0	0	0	0	0	1.4	1.44	0	0	0	0	0	0
6/11/2024 22:35	64202	KINZ_T1	3	3	0	0.4	1.03	0.63	0	0	0	0	0	0	0	0
6/11/2024 22:35	52004	LING_T2	0	1	1	0	0.3	0.3	0.15	0.15	0	0	0	0	0	0
6/11/2024 22:35	26703	HEML_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	600	600	0
6/11/2024 22:35	16401	MOPO_T1	0	0	0	0	0	0	0.26	0.34	0	0	0	0	0	0
6/11/2024 22:35	67805	WLAN_T1	418	0	-418	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/11/2024 22:36	57104	SPHI_T2	1	1	0	2.7	2.4	-0.3	0	0	0	0	0	0	0	0
6/11/2024 22:36	57101	SPHI_T2	6	6	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
6/11/2024 22:36	44701	MUNC_T2	120	1	-119	0.16	0.1	-0.06	-1.54	-1.55	0	0	0	0	0	0
6/11/2024 22:36	67802	WLAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:36	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.99	-1	0	0	0	0	0	0
6/11/2024 22:36	57106	SPHI_T2	3	3	0	1.7	2.1	0.4	0	0	0	0	0	0	0	0
6/11/2024 22:36	65702	RVIL_T2	0	0	0	0	0	0	-1.84	-1.86	2	2	0	1200	1200	0
6/11/2024 22:36	17102	WTRE_T2	0	0	0	0	0	0	-0.26	-0.18	0	0	0	0	0	0
6/11/2024 22:36	52503	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 22:36	56802	BENV_T2	1	1	0	0.4	0.9	0.5	-1.31	-1.34	0	0	0	0	0	0
6/11/2024 22:36	67303	WYOM_T2	0	0	0	0	0	0	-0.94	-0.97	0	0	0	0	0	0
6/11/2024 22:36	64503	LAVI_T1	0	0	0	0	0	0	-1.64	-1.65	1	1	0	1200	1200	0
6/11/2024 22:36	52502	PROG_T2	0	0	0	0	0	0	-0.62	-0.62	1	1	0	900	900	0
6/11/2024 22:36	64902	MILL_T2	0	0	0	0	0	0	-0.58	-0.6	1	1	0	900	900	0
6/11/2024 22:36	42001	MNVL_T2	5	0	-5	0.14	0	-0.14	0.08	0.06	0	0	0	0	0	0
6/11/2024 22:36	42201	SHEN_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
6/11/2024 22:36	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:36	58001	WCAR_T1	4	5	1	1.4	1.4	0	0	0	0	0	0	0	0	0
6/11/2024 22:36	41902	REED_T1	0	0	0	0	0	0	1.03	1	0	0	0	0	0	0
6/11/2024 22:36	67805	WLAN_T1	418	0	-418	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/11/2024 22:36	44703	MUNC_T2	2	2	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
6/11/2024 22:36	13302	ORVI_T2	0	0	0	0	0	0	1.08	1.05	0	0	0	0	0	0
6/11/2024 22:36	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 22:36	44601	SALE_T2	1	1	0	0.7	0.8	0.1	-0.1	-0.11	0	0	0	0	0	0
6/11/2024 22:36	48901	FOSP_T2	0	0	0	0	0	0	-0.42	-0.42	1	1	0	600	600	0
6/11/2024 22:36	57103	SPHI_T2	0	0	0	0	0	0	-1.39	-1.39	0	0	0	0	0	0
6/11/2024 22:36	53501	EVIL_T2	1	2	1	1.4	1.1	-0.3	-0.32	-0.28	0	0	0	0	0	0
6/11/2024 22:36	58003	WCAR_T1	1	40	39	1.9	0.22	-1.68	0.59	0.59	0	0	0	0	0	0
6/11/2024 22:36	44702	MUNC_T2	16	0	-16	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/11/2024 22:36	17101	WTRE_T2	75	273	198	0.13	0.27	0.14	0	0	0	0	0	0	0	0
6/11/2024 22:36	64501	LAVI_T1	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
6/11/2024 22:36	46206	DANV_T2	1	0	-1	0.6	0	-0.6	3.28	3.25	1	1	0	1200	1200	0
6/11/2024 22:36	44301	BEAV_T2	0	0	0	0	0	0	0.87	0.75	1	1	0	600	600	0
6/11/2024 22:36	42002	MNVL_T2	1	1	0	1.3	2	0.7	0	0	0	0	0	0	0	0
6/11/2024 22:36	63306	GREE_T1	0	0	0	0	0	0	-1.44	-1.45	1	1	0	900	900	0
6/11/2024 22:37	64503	LAVI_T1	0	0	0	0	0	0	-1.64	-1.65	1	1	0	1200	1200	0
6/11/2024 22:37	52502	PROG_T2	0	0	0	0	0	0	-0.62	0.32	1	0	-1	900	0	-900
6/11/2024 22:37	64203	KINZ_T1	0	0	0	0	0	0	-0.08	-0.08	1	1	0	600	600	0
6/11/2024 22:37	66502	SMAN_T2	0	0	0	0	0	0	0.04	-0.11	0	0	0	0	0	0
6/11/2024 22:37	52503	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 22:37	22901	HARW_T1	0	0	0	0	0	0	-0.36	-0.51	1	1	0	1200	1200	0
6/11/2024 22:37	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 22:37	67801	WLAN_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
6/11/2024 22:37	29402	BELT_T1	1	1	0	7.9	8.2	0.3	0	0	0	0	0	0	0	0
6/11/2024 22:37	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:37	64204	KINZ_T1	3	4	1	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
6/11/2024 22:37	64202	KINZ_T1	3	3	0	0.4	1.03	0.63	0	0	0	0	0	0	0	0
6/11/2024 22:37	56802	BENV_T2	1	1	0	0.4	0.9	0.5	-0.67	-0.69	0	0	0	0	0	0
6/11/2024 22:37	60801	BUCK_T1	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
6/11/2024 22:37	52006	LING_T2	2	2	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/11/2024 22:37	52004	LING_T2	0	1	1	0	0.3	0.3	0.15	0.14	0	0	0	0	0	0
6/11/2024 22:37	56801	BENV_T1	5	13	8	0.36	0.72	0.36	-0.56	-0.58	1	1	0	600	600	0
6/11/2024 22:37	67805	WLAN_T1	418	0	-418	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/11/2024 22:37	55003	NEWP_T2	0	0	0	0	0	0	-0.2	-0.24	0	0	0	0	0	0
6/11/2024 22:37	51004	NHAR_T1	1	11	10	6.4	0.76	-5.64	0	0	0	0	0	0	0	0
6/11/2024 22:37	63202	MGTN_T2	0	0	0	0	0	0	-0.22	-0.23	1	1	0	900	900	0
6/11/2024 22:37	67802	WLAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:37	64201	KINZ_T1	5	5	0	0.42	0.46	0.04	0	0	0	0	0	0	0	0
6/11/2024 22:37	13905	SEID_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
6/11/2024 22:37	51003	NHAR_T1	0	0	0	0	0	0	-1.63	-1.61	1	1	0	1200	1200	0
6/11/2024 22:37	46206	DANV_T2	1	0	-1	0.6	0	-0.6	3.28	3.25	1	1	0	1200	1200	0
6/11/2024 22:37	52002	LING_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
6/11/2024 22:37	56601	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 22:37	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.81	-0.81	0	0	0	0	0	0
6/11/2024 22:37	23203	HIRU_T2	0	0	0	0	0	0	-0.1	-0.15	0	0	0	0	0	0
6/11/2024 22:37	14404	SSLA_T1	1	1	0	5.1	5.3	0.2	0.01	0.01	0	0	0	0	0	0
6/11/2024 22:37	12604	MACA_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
6/11/2024 22:37	64101	REFR_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
6/11/2024 22:37	51002	NHAR_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
6/11/2024 22:38	10903	COOP_T2	0	14	14	0	0.11	0.11	0	0	0	0	0	0	0	0
6/11/2024 22:38	22003	BOHE_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
6/11/2024 22:38	58001	WCAR_T1	4	5	1	1.4	1.4	0	0	0	0	0	0	0	0	0
6/11/2024 22:38	20403	ASHF_T2	0	0	0	0	0	0	0.19	0.11	0	0	0	0	0	0
6/11/2024 22:38	64601	LEOL_T1	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
6/11/2024 22:38	20401	ASHF_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/11/2024 22:38	56802	BENV_T2	1	1	0	0.4	0.9	0.5	-0.67	-0.69	0	0	0	0	0	0
6/11/2024 22:38	58003	WCAR_T1	1	40	39	1.9	0.22	-1.68	0.59	0.58	0	0	0	0	0	0
6/11/2024 22:38	56801	BENV_T1	5	13	8	0.36	0.72	0.36	-0.56	-0.58	1	1	0	600	600	0
6/11/2024 22:38	60803	BUCK_T1	0	0	0	0	0	0	-0.5	-0.51	1	1	0	600	600	0
6/11/2024 22:38	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
6/11/2024 22:38	57203	ROSS_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
6/11/2024 22:38	62105	ELAN_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
6/11/2024 22:38	17101	WTRE_T2	75	273	198	0.13	0.27	0.14	0	0	0	0	0	0	0	0
6/11/2024 22:38	10901	COOP_T2	0	0	0	0	0	0	0.79	0.77	0	0	0	0	0	0
6/11/2024 22:38	24603	VARD_T2	23	48	25	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
6/11/2024 22:38	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/11/2024 22:38	52501	PROG_T1	0	0	0	0	0	0	0.42	0.4	1	1	0	300	300	0
6/11/2024 22:38	14802	TREI_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
6/11/2024 22:38	23203	HIRU_T2	0	0	0	0	0	0	-0.1	-0.15	0	0	0	0	0	0
6/11/2024 22:38	24602	VARD_T2	773	832	59	0.87	0.92	0.05	-1.08	-1.08	0	0	0	0	0	0
6/11/2024 22:38	40801	EXCH_T2	0	0	0	0	0	0	-0.48	-0.53	1	1	0	1200	1200	0
6/11/2024 22:38	17102	WTRE_T2	0	0	0	0	0	0	-0.26	-0.18	0	0	0	0	0	0
6/11/2024 22:39	56501	ROCK_T2	2	3	1	3.3	1.97	-1.33	0.14	0.1	0	0	0	0	0	0
6/11/2024 22:39	16302	ALPA_T2	0	0	0	0	0	0	0.74	0.72	0	0	0	0	0	0
6/11/2024 22:39	57106	SPHI_T2	3	3	0	1.7	2.1	0.4	0	0	0	0	0	0	0	0
6/11/2024 22:39	66502	SMAN_T2	0	0	0	0	0	0	0.04	-0.11	0	0	0	0	0	0
6/11/2024 22:39	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
6/11/2024 22:39	63404	HONY_T1	0	7	7	0	0.14	0.14	0	0	0	0	0	0	0	0
6/11/2024 22:39	44601	SALE_T2	1	1	0	0.7	0.8	0.1	-0.1	-0.11	0	0	0	0	0	0
6/11/2024 22:39	61803	EELI_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
6/11/2024 22:39	43302	WATS_T2	4	4	0	0.98	0.33	-0.65	0	0	0	0	0	0	0	0
6/11/2024 22:39	58003	WCAR_T1	1	40	39	1.9	0.22	-1.68	0.59	0.58	0	0	0	0	0	0
6/11/2024 22:39	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.42	-0.43	2	2	0	1800	1800	0
6/11/2024 22:39	45502	DERR_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/11/2024 22:39	67604	WARW_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
6/11/2024 22:39	43301	WATS_T2	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/11/2024 22:39	41902	REED_T1	0	0	0	0	0	0	1	0.97	0	0	0	0	0	0
6/11/2024 22:39	59301	MCAL_T1	0	2	2	0	0.85	0.85	-1.17	-1.17	0	0	0	0	0	0
6/11/2024 22:39	57101	SPHI_T2	6	6	0	0.45	0.8	0.35	0.27	0.27	0	0	0	0	0	0
6/11/2024 22:39	65205	PRIN_T1	1	1	0	1.2	1.7	0.5	0	0	0	0	0	0	0	0
6/11/2024 22:39	63401	HONY_T1	0	0	0	0	0	0	1.44	1.56	0	0	0	0	0	0
6/11/2024 22:39	59302	MCAL_T1	0	1	1	0	0.4	0.4	-0.35	-0.35	1	1	0	600	600	0
6/11/2024 22:39	60902	DONG_T2	0	0	0	0	0	0	0.7	0.69	0	0	0	0	0	0
6/11/2024 22:39	58001	WCAR_T1	4	5	1	1.4	1.4	0	0	0	0	0	0	0	0	0
6/11/2024 22:39	56802	BENV_T2	1	1	0	0.4	0.9	0.5	-0.67	-0.69	0	0	0	0	0	0
6/11/2024 22:39	67605	WARW_T1	14	14	0	0.54	0.58	0.04	0	0	0	0	0	0	0	0
6/11/2024 22:39	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/11/2024 22:39	45702	LIND_T2	1	0	-1	0.7	0	-0.7	-0.5	-0.5	0	0	0	0	0	0
6/11/2024 22:39	43304	WATS_T2	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
6/11/2024 22:39	57104	SPHI_T2	1	1	0	2.7	2.4	-0.3	0	0	0	0	0	0	0	0
6/11/2024 22:39	14802	TREI_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
6/11/2024 22:40	67303	WYOM_T2	0	0	0	0	0	0	-0.94	-0.97	0	0	0	0	0	0
6/11/2024 22:40	26402	INOR_T1	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
6/11/2024 22:40	63304	GREE_T1	0	0	0	0	0	0	-0.4	-0.43	0	0	0	0	0	0
6/11/2024 22:40	29402	BELT_T1	1	1	0	7.9	8.2	0.3	0	0	0	0	0	0	0	0
6/11/2024 22:40	56802	BENV_T2	1	1	0	0.4	0.9	0.5	-0.67	-0.69	0	0	0	0	0	0
6/11/2024 22:40	57101	SPHI_T2	6	6	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
6/11/2024 22:40	51102	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 22:40	56801	BENV_T1	5	13	8	0.36	0.72	0.36	-0.56	-0.58	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/11/2024 22:40	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
6/11/2024 22:40	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/11/2024 22:40	55001	NEWP_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
6/11/2024 22:40	54505	ENOL_T2	0	1	1	0	0.4	0.4	-1.27	-1.28	1	1	0	600	600	0
6/11/2024 22:40	46001	BERW_T1	0	0	0	0	0	0	1.26	1.23	0	0	0	0	0	0
6/11/2024 22:40	57106	SPHI_T2	3	3	0	1.7	2.1	0.4	0	0	0	0	0	0	0	0
6/11/2024 22:40	59201	THOM_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
6/11/2024 22:40	53501	EVIL_T2	1	2	1	1.4	1.1	-0.3	-0.28	-0.25	0	0	0	0	0	0
6/11/2024 22:40	66502	SMAN_T2	0	0	0	0	0	0	0.04	-0.11	0	0	0	0	0	0
6/11/2024 22:40	51101	CARL_T1	1	1	0	5.3	5.1	-0.2	-1.5	-1.51	1	1	0	600	600	0
6/11/2024 22:40	57104	SPHI_T2	1	1	0	2.7	2.4	-0.3	-0.4	-0.42	0	0	0	0	0	0
6/11/2024 22:40	56803	BENV_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
6/11/2024 22:40	64501	LAVI_T1	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
6/11/2024 22:40	57103	SPHI_T2	0	0	0	0	0	0	-1.39	-1.4	0	0	0	0	0	0
6/11/2024 22:40	59202	THOM_T1	0	34	34	0	0.14	0.14	0	0	0	0	0	0	0	0
6/11/2024 22:40	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/11/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
6/11/2024 22:40	55002	NEWP_T1	2	5	3	0.55	0.6	0.05	-0.56	-0.56	0	0	0	0	0	0
6/11/2024 22:40	67605	WARW_T1	14	14	0	0.54	0.58	0.04	-1.11	-1.13	0	0	0	0	0	0
6/11/2024 22:40	10801	CHHI_T1	0	0	0	0	0	0	-0.86	-0.75	1	1	0	900	900	0
6/11/2024 22:41	25503	MADI_T1	93	98	5	0.33	0.3	-0.03	-0.97	-0.98	0	0	0	0	0	0
6/11/2024 22:41	52401	GRPA_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/11/2024 22:41	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/11/2024 22:41	51102	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 22:41	20403	ASHF_T2	0	0	0	0	0	0	0.19	0.11	0	0	0	0	0	0
6/11/2024 22:41	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.99	-1	0	0	0	0	0	0
6/11/2024 22:41	58006	WCAR_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
6/11/2024 22:41	42201	SHEN_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
6/11/2024 22:41	20401	ASHF_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/11/2024 22:41	51101	CARL_T1	1	1	0	5.3	5.1	-0.2	-1.5	-1.51	1	1	0	600	600	0
6/11/2024 22:41	46504	LOHA_T1	2	2	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:41	60801	BUCK_T1	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
6/11/2024 22:41	46506	LOHA_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/11/2024 22:41	56802	BENV_T2	1	1	0	0.4	0.9	0.5	-1.34	-1.38	0	0	0	0	0	0
6/11/2024 22:41	52402	GRPA_T2	4	4	0	0.23	0.8	0.57	-0.76	-0.77	0	0	0	0	0	0
6/11/2024 22:41	58402	MORO_T1	0	0	0	0	0	0	-1.46	-1.37	3	3	0	2400	2400	0
6/11/2024 22:41	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/11/2024 22:41	45702	LIND_T2	1	0	-1	0.7	0	-0.7	-0.5	-0.5	0	0	0	0	0	0
6/11/2024 22:41	60101	COCA_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
6/11/2024 22:41	67802	WLAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:41	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 22:41	40602	PIGR_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/11/2024 22:41	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
6/11/2024 22:41	16902	MECK_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
6/11/2024 22:41	42903	MIDD_T2	2	0	0	1.3	1.3	0	-1.4	-1.43	1	1	0	1200	1200	0
6/11/2024 22:41	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.81	-0.81	0	0	0	0	0	0
6/11/2024 22:41	67805	WLAN_T1	418	0	-418	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/11/2024 22:41	56801	BENV_T1	5	13	8	0.36	0.72	0.36	-0.56	-0.58	1	1	0	600	600	0
6/11/2024 22:41	52403	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/11/2024 22:41	54505	ENOL_T2	0	1	1	0	0.4	0.4	-2.54	-2.55	2	2	0	1200	1200	0
6/11/2024 22:42	60501	NMAN_T2	3	3	0	4.47	5.07	0.6	0	0	0	0	0	0	0	0
6/11/2024 22:42	67805	WLAN_T1	418	0	-418	0.23	0	-0.23	-1.38	-1.39	0	0	0	0	0	0
6/11/2024 22:42	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:42	60502	NMAN_T2	0	0	0	0	0	0	-0.26	-0.22	0	0	0	0	0	0
6/11/2024 22:42	20601	GRWO_T2	6	84	78	0.2	0.2	0	0	0	0	0	0	0	0	0
6/11/2024 22:42	20603	GRWO_T2	0	10	10	0	0.12	0.12	0.34	0.33	0	0	0	0	0	0
6/11/2024 22:42	24204	PROV_T3	1	2	1	5.7	2.85	-2.85	0	0	0	0	0	0	0	0
6/11/2024 22:42	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.81	-0.81	0	0	0	0	0	0
6/11/2024 22:42	45602	WOOL_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
6/11/2024 22:42	67802	WLAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:42	40702	FFLD_T1	153	165	12	0.32	0.27	-0.05	-0.83	-1.01	1	1	0	1200	1200	0
6/11/2024 22:42	60101	COCA_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
6/11/2024 22:42	44201	POIN_T1	228	378	150	0.22	0.26	0.04	-2.28	-2.27	2	2	0	2100	2100	0
6/11/2024 22:42	24603	VARD_T2	23	48	25	0.3	0.26	-0.04	-0.15	-0.15	0	0	0	0	0	0
6/11/2024 22:42	10805	CHHI_T2	1	1	0	7.8	7.6	-0.2	-1.05	-1.01	1	1	0	600	600	0
6/11/2024 22:42	42001	MNVL_T2	5	0	-5	0.14	0	-0.14	0.08	0.06	0	0	0	0	0	0
6/11/2024 22:42	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 22:42	40703	FFLD_T1	4	3	-1	0.65	0.27	-0.38	0	0	0	0	0	0	0	0
6/11/2024 22:42	42002	MNVL_T2	1	1	0	1.3	2	0.7	0	0	0	0	0	0	0	0
6/11/2024 22:42	20401	ASHF_T2	0	2	2	0	0.25	0.25	-0.22	-0.27	0	0	0	0	0	0
6/11/2024 22:42	67203	TEHI_T1	0	0	0	0	0	0	2.08	2.13	2	2	0	1500	1500	0
6/11/2024 22:42	24201	PROV_T3	1	2	1	6	3	-3	-1.4	-1.41	1	1	0	1200	1200	0
6/11/2024 22:42	56802	BENV_T2	1	1	0	0.4	0.9	0.5	-2.02	-2.07	0	0	0	0	0	0
6/11/2024 22:42	24602	VARD_T2	773	832	59	0.87	0.92	0.05	0	0	0	0	0	0	0	0
6/11/2024 22:42	40602	PIGR_T1	1	1	0	0.2	0.2	0	0	0	1	1	0	600	600	0
6/11/2024 22:42	24801	VALM_T1	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
6/11/2024 22:42	40701	FFLD_T1	64	30	-34	0.46	0.39	-0.07	0	0	0	0	0	0	0	0
6/11/2024 22:42	63302	GREE_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
6/11/2024 22:42	41801	COCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 22:42	10801	CHHI_T1	0	0	0	0	0	0	-0.86	-0.75	1	1	0	900	900	0
6/11/2024 22:43	43704	WILL_T1	1	1	0	1.6	1.1	-0.5	0	0	0	0	0	0	0	0
6/11/2024 22:43	64503	LAVI_T1	0	0	0	0	0	0	-3.29	-3.3	2	2	0	2400	2400	0
6/11/2024 22:43	15702	TANN_T2	0	8	8	0	0.1	0.1	-0.43	-0.43	0	0	0	0	0	0
6/11/2024 22:43	43701	WILL_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
6/11/2024 22:43	45802	HEGI_T2	41	45	4	0.87	0.9	0.03	0.56	0.54	0	0	0	0	0	0
6/11/2024 22:43	56802	BENV_T2	1	1	0	0.4	0.9	0.5	-0.67	-0.69	0	0	0	0	0	0
6/11/2024 22:43	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/11/2024 22:43	15703	TANN_T2	1	1	0	4.8	4.7	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:43	57403	SPAN_T1	0	6	6	0	0.12	0.12	0.05	0.05	0	0	0	0	0	0
6/11/2024 22:43	54505	ENOL_T2	0	1	1	0	0.4	0.4	-1.27	-1.28	1	1	0	600	600	0
6/11/2024 22:43	56501	ROCK_T2	2	3	1	3.3	1.97	-1.33	0.07	0.05	0	0	0	0	0	0
6/11/2024 22:43	43703	WILL_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 22:43	40602	PIGR_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/11/2024 22:43	52403	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/11/2024 22:43	58003	WCAR_T1	1	40	39	1.9	0.22	-1.68	0.59	0.58	0	0	0	0	0	0
6/11/2024 22:43	51402	LYKE_T1	0	0	0	0	0	0	-1.47	-1.49	1	1	0	600	600	0
6/11/2024 22:43	58001	WCAR_T1	4	5	1	1.4	1.4	0	0.65	0.64	0	0	0	0	0	0
6/11/2024 22:43	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 22:43	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/11/2024 22:43	58402	MORO_T1	0	0	0	0	0	0	-1.46	-1.37	3	3	0	2400	2400	0
6/11/2024 22:43	23403	HONE_T1	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
6/11/2024 22:43	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
6/11/2024 22:43	43705	WILL_T1	2	2	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
6/11/2024 22:43	52402	GRPA_T2	4	4	0	0.23	0.8	0.57	0	0	0	0	0	0	0	0
6/11/2024 22:43	57401	SPAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 22:43	52401	GRPA_T2	0	2	2	0	0.35	0.35	-0.48	-0.48	0	0	0	0	0	0
6/11/2024 22:44	57103	SPHI_T2	0	0	0	0	0	0	-1.39	-1.4	0	0	0	0	0	0
6/11/2024 22:44	58003	WCAR_T1	1	40	39	1.9	0.22	-1.68	0.59	0.58	0	0	0	0	0	0
6/11/2024 22:44	54505	ENOL_T2	0	1	1	0	0.4	0.4	-1.27	-1.28	1	1	0	600	600	0
6/11/2024 22:44	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/11/2024 22:44	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 22:44	57106	SPHI_T2	3	3	0	1.7	2.1	0.4	0	0	0	0	0	0	0	0
6/11/2024 22:44	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/11/2024 22:44	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:44	50501	MECH_T1	4	4	0	0.13	0.45	0.32	0	0	0	0	0	0	0	0
6/11/2024 22:44	56501	ROCK_T2	2	3	1	3.3	1.97	-1.33	0.07	0.05	0	0	0	0	0	0
6/11/2024 22:44	65003	NEFF_T2	0	0	0	0	0	0	-1.41	-1.28	1	1	0	1200	1200	0
6/11/2024 22:44	57101	SPHI_T2	6	6	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
6/11/2024 22:44	56802	BENV_T2	1	1	0	0.4	0.9	0.5	-0.67	-0.69	0	0	0	0	0	0
6/11/2024 22:44	65802	RTWN_T2	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
6/11/2024 22:44	67802	WLAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:44	57104	SPHI_T2	1	1	0	2.7	2.4	-0.3	0	0	0	0	0	0	0	0
6/11/2024 22:44	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.99	-1	0	0	0	0	0	0
6/11/2024 22:44	58001	WCAR_T1	4	5	1	1.4	1.4	0	0	0	0	0	0	0	0	0
6/11/2024 22:44	50502	MECH_T1	1	1	0	1.1	1.7	0.6	0	0	0	0	0	0	0	0
6/11/2024 22:44	66703	STRA_T1	32	4	-28	0.19	0.27	0.08	-0.31	-0.32	0	0	0	0	0	0
6/11/2024 22:44	50506	MECH_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
6/11/2024 22:44	67805	WLAN_T1	418	0	-418	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/11/2024 22:44	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 22:44	55002	NEWP_T1	2	5	3	0.55	0.6	0.05	-0.28	-0.28	0	0	0	0	0	0
6/11/2024 22:45	24204	PROV_T3	2	1	-1	2.85	5.8	2.95	0	0	0	0	0	0	0	0
6/11/2024 22:45	21206	ECAR_T2	1	1	0	8.2	8.2	0	-0.18	-0.2	0	0	0	0	0	0
6/11/2024 22:45	44302	BEAV_T2	0	0	0	0	0	0	1.01	1.01	0	0	0	0	0	0
6/11/2024 22:45	24105	EHAZ_T1	4	4	0	5.93	5.68	-0.25	0	0	0	0	0	0	0	0
6/11/2024 22:45	61801	EELI_T2	0	0	0	0	0	0	-0.97	-0.99	1	1	0	600	600	0
6/11/2024 22:45	23001	SAIO_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
6/11/2024 22:45	58401	MORO_T1	0	0	0	0	0	0	-1.09	-1.11	1	1	0	600	600	0
6/11/2024 22:45	56801	BENV_T1	11	21	10	0.46	0.86	0.4	-0.56	-0.58	1	1	0	600	600	0
6/11/2024 22:45	27005	BELL_T1	0	0	0	0	0	0	-1.81	-1.82	0	0	0	0	0	0
6/11/2024 22:45	21204	ECAR_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
6/11/2024 22:45	50506	MECH_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
6/11/2024 22:45	53501	EVIL_T2	2	2	0	1	1.15	0.15	-0.28	-0.25	0	0	0	0	0	0
6/11/2024 22:45	56803	BENV_T1	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
6/11/2024 22:45	29402	BELT_T1	1	1	0	8	8.2	0.2	0	0	0	0	0	0	0	0
6/11/2024 22:45	50502	MECH_T1	1	1	0	1.6	2.1	0.5	0	0	0	0	0	0	0	0
6/11/2024 22:45	24101	EHAZ_T1	7	0	-7	0.37	0	-0.37	0	0	0	0	0	0	0	0
6/11/2024 22:45	20401	ASHF_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
6/11/2024 22:45	44301	BEAV_T2	0	0	0	0	0	0	0.87	0.75	1	1	0	600	600	0
6/11/2024 22:45	60803	BUCK_T1	0	0	0	0	0	0	-0.5	-0.51	1	1	0	600	600	0
6/11/2024 22:45	24104	EHAZ_T1	0	0	0	0	0	0	-1.96	-1.96	2	2	0	2400	2400	0
6/11/2024 22:45	24201	PROV_T3	2	1	-1	3	5.9	2.9	-1.4	-1.41	1	1	0	1200	1200	0
6/11/2024 22:45	21203	ECAR_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
6/11/2024 22:45	20403	ASHF_T2	0	0	0	0	0	0	0.19	0.11	0	0	0	0	0	0
6/11/2024 22:45	50501	MECH_T1	3	4	1	0.23	0.53	0.3	0	0	0	0	0	0	0	0
6/11/2024 22:45	56802	BENV_T2	1	1	0	0.7	1	0.3	-1.34	-1.38	0	0	0	0	0	0
6/11/2024 22:45	55105	WERT_T1	0	0	0	0	0	0	-0.52	-0.55	1	1	0	900	900	0
6/11/2024 22:45	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/11/2024 22:46	52401	GRPA_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
6/11/2024 22:46	22602	KIMB_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
6/11/2024 22:46	57101	SPHI_T2	6	6	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
6/11/2024 22:46	64203	KINZ_T1	0	0	0	0	0	0	-0.08	-0.08	1	1	0	600	600	0
6/11/2024 22:46	57104	SPHI_T2	1	1	0	2.4	2.1	-0.3	-0.4	-0.42	0	0	0	0	0	0
6/11/2024 22:46	43802	SWIL_T1	0	0	0	0	0	0	-0.16	-0.13	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/11/2024 22:46	59002	MIFF_T1	6	6	0	0.58	0.92	0.34	0	0	0	0	0	0	0	0
6/11/2024 22:46	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/11/2024 22:46	64503	LAVI_T1	0	0	0	0	0	0	-1.64	-1.65	1	1	0	1200	1200	0
6/11/2024 22:46	27201	YATE_T1	0	0	0	0	0	0	-1.03	-1.05	0	0	0	0	0	0
6/11/2024 22:46	57106	SPHI_T2	3	3	0	1.9	2.23	0.33	0	0	0	0	0	0	0	0
6/11/2024 22:46	52403	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/11/2024 22:46	64204	KINZ_T1	1	4	3	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
6/11/2024 22:46	59003	MIFF_T1	1	1	0	0.2	0.8	0.6	0.49	0.35	0	0	0	0	0	0
6/11/2024 22:46	64202	KINZ_T1	3	3	0	0.27	1.03	0.76	0	0	0	0	0	0	0	0
6/11/2024 22:46	65502	MOJO_T2	0	0	0	0	0	0	-0.86	-0.92	0	0	0	0	0	0
6/11/2024 22:46	64201	KINZ_T1	2	5	3	0.65	0.46	-0.19	0	0	0	0	0	0	0	0
6/11/2024 22:46	43801	SWIL_T1	2	2	0	3.3	3.25	-0.05	0	0	0	0	0	0	0	0
6/11/2024 22:46	52402	GRPA_T2	4	4	0	0.5	0.85	0.35	-0.76	-0.77	0	0	0	0	0	0
6/11/2024 22:47	56801	BENV_T1	11	21	10	0.46	0.86	0.4	-1.67	-1.74	3	3	0	1800	1800	0
6/11/2024 22:47	56803	BENV_T1	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
6/11/2024 22:47	57401	SPAN_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/11/2024 22:47	57403	SPAN_T1	0	9	9	0	0.16	0.16	0.05	0.05	0	0	0	0	0	0
6/11/2024 22:47	53901	HALI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/11/2024 22:47	58402	MORO_T1	0	0	0	0	0	0	-1.46	-1.37	3	3	0	2400	2400	0
6/11/2024 22:47	53903	HALI_T2	2	2	0	1	1.3	0.3	-0.11	-0.12	0	0	0	0	0	0
6/11/2024 22:47	53902	HALI_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
6/11/2024 22:47	52501	PROG_T1	0	0	0	0	0	0	0.42	0.4	1	1	0	300	300	0
6/11/2024 22:47	55002	NEWP_T1	3	5	2	0.57	0.6	0.03	-0.28	-0.28	0	0	0	0	0	0
6/11/2024 22:47	56802	BENV_T2	1	1	0	0.7	1	0.3	-0.67	-0.69	0	0	0	0	0	0
6/11/2024 22:48	57101	SPHI_T2	6	6	0	0.8	1.1	0.3	0.27	0.27	0	0	0	0	0	0
6/11/2024 22:48	57106	SPHI_T2	3	3	0	1.9	2.23	0.33	0	0	0	0	0	0	0	0
6/11/2024 22:48	57104	SPHI_T2	1	1	0	2.4	2.1	-0.3	0	0	0	0	0	0	0	0
6/11/2024 22:49	52004	LING_T2	0	1	1	0	0.5	0.5	0.15	0.14	0	0	0	0	0	0
6/11/2024 22:49	52002	LING_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
6/11/2024 22:49	52006	LING_T2	2	2	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
6/11/2024 22:49	56603	HAMP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 22:50	54505	ENOL_T2	1	1	0	0.3	0.6	0.3	-1.27	-1.28	1	1	0	600	600	0
6/11/2024 22:50	58401	MORO_T1	0	0	0	0	0	0	-1.09	-1.11	1	1	0	600	600	0
6/11/2024 22:50	54502	ENOL_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
6/11/2024 22:51	56601	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/11/2024 22:51	56801	BENV_T1	11	21	10	0.46	0.86	0.4	-0.56	-0.58	1	1	0	600	600	0
6/11/2024 22:51	58003	WCAR_T1	33	48	15	0.21	0.25	0.04	0.59	0.58	0	0	0	0	0	0
6/11/2024 22:51	56803	BENV_T1	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
6/11/2024 22:51	58001	WCAR_T1	4	5	1	1.68	1.46	-0.22	0	0	0	0	0	0	0	0
6/11/2024 22:51	50501	MECH_T1	3	4	1	0.23	0.53	0.3	-0.01	0.05	0	0	0	0	0	0
6/11/2024 22:51	50502	MECH_T1	1	1	0	1.6	2.1	0.5	0	0	0	0	0	0	0	0
6/11/2024 22:51	56603	HAMP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/11/2024 22:52	52002	LING_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
6/11/2024 22:52	52403	GRPA_T2	0	2	2	0	0.15	0.15	0.05	0.04	0	0	0	0	0	0
6/11/2024 22:52	52402	GRPA_T2	4	4	0	0.5	0.85	0.35	0	0	0	0	0	0	0	0
6/11/2024 22:52	52006	LING_T2	2	2	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
6/11/2024 22:52	52401	GRPA_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
6/11/2024 22:52	56802	BENV_T2	1	1	0	0.7	1	0.3	-0.69	-0.71	0	0	0	0	0	0
6/11/2024 22:52	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/11/2024 22:52	52004	LING_T2	0	1	1	0	0.5	0.5	0.14	0.13	0	0	0	0	0	0
6/11/2024 22:52	44301	BEAV_T2	0	0	0	0	0	0	0.75	0.68	1	1	0	600	600	0
6/11/2024 22:53	56803	BENV_T1	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
6/11/2024 22:53	52501	PROG_T1	0	0	0	0	0	0	0.4	0.38	1	1	0	300	300	0
6/11/2024 22:53	56801	BENV_T1	11	21	10	0.46	0.86	0.4	-0.58	-0.6	1	1	0	600	600	0
6/11/2024 22:54	55001	NEWP_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
6/11/2024 22:54	55002	NEWP_T1	3	5	2	0.57	0.6	0.03	0	0	0	0	0	0	0	0
6/11/2024 23:02	61103	BERK_T5	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
6/11/2024 23:45	60102	COCA_T1	0	0	0	0	0	0	0.53	0.57	2	2	0	1200	1200	0
6/11/2024 23:47	56501	ROCK_T2	3	3	0	2	0.8	-1.2	-0.01	-0.02	0	0	0	0	0	0
6/12/2024 0:29	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 0:41	56501	ROCK_T2	2	2	0	0.8	1	0.2	-0.05	-0.06	0	0	0	0	0	0
6/12/2024 0:44	63305	GREE_T1	0	0	0	0	0	0	-2.15	-2.12	1	1	0	900	900	0
6/12/2024 1:46	24802	VALM_T1	0	0	0	0	0	0	1.14	1.18	0	0	0	0	0	0
6/12/2024 2:03	65901	SAKR_T2	1	1	0	8.6	8.8	0.2	-1.26	-1.29	1	1	0	900	900	0
6/12/2024 2:29	45802	HEGI_T2	47	48	1	1.14	1.97	0.83	0.15	0.08	0	0	0	0	0	0
6/12/2024 4:51	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/12/2024 6:15	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/12/2024 6:19	24204	PROV_T3	1	1	0	6.2	6.4	0.2	0	0	0	0	0	0	0	0
6/12/2024 6:19	24201	PROV_T3	1	2	1	5.8	6.3	0.5	-1.51	-1.5	1	1	0	1200	1200	0
6/12/2024 6:22	48301	ORWI_T1	2	2	0	4.45	4.25	-0.2	0.6	0.61	0	0	0	0	0	0
6/12/2024 6:27	29402	BELT_T1	1	1	0	7.5	8.2	0.7	0	0	0	0	0	0	0	0
6/12/2024 6:27	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/12/2024 6:30	53501	EVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 6:30	53502	EVIL_T2	1	1	0	0.2	1	0.8	0.58	0.65	1	1	0	600	600	0
6/12/2024 6:37	16301	ALPA_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
6/12/2024 6:40	14204	EALL_T2	0	0	0	0	0	0	-0.69	-0.65	0	0	0	0	0	0
6/12/2024 6:40	67605	WARW_T1	17	34	17	0.72	0.69	-0.03	-1.14	-1.13	0	0	0	0	0	0
6/12/2024 6:42	62601	ENGL_T1	0	0	0	0	0	0	-0.13	-0.08	0	0	0	0	0	0
6/12/2024 6:53	61102	BERK_T5	0	0	0	0	0	0	1.02	1.02	1	1	0	300	300	0
6/12/2024 6:56	61102	BERK_T5	0	0	0	0	0	0	1.02	1.02	1	1	0	300	300	0
6/12/2024 6:57	46801	HEPB_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
6/12/2024 6:57	46803	HEPB_T2	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
6/12/2024 6:58	62102	ELAN_T1	0	0	0	0	0	0	0.48	0.54	0	0	0	0	0	0
6/12/2024 7:03	65904	SAKR_T2	0	0	0	0	0	0	-1.74	-1.73	3	3	0	1500	1500	0
6/12/2024 7:03	66503	SMAN_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
6/12/2024 7:03	65901	SAKR_T2	1	1	0	8.5	7.9	-0.6	0	0	0	0	0	0	0	0
6/12/2024 7:04	65901	SAKR_T2	1	1	0	8.5	7.9	-0.6	0	0	0	0	0	0	0	0
6/12/2024 7:04	65904	SAKR_T2	0	0	0	0	0	0	-1.74	-1.73	3	3	0	1500	1500	0
6/12/2024 7:05	66503	SMAN_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
6/12/2024 7:05	15203	SFAR_T2	0	0	0	0	0	0	-4.05	-3.99	0	0	0	0	0	0
6/12/2024 7:05	15204	SFAR_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
6/12/2024 7:08	56802	BENV_T2	1	1	0	0.6	1.3	0.7	-2.93	-2.91	0	0	0	0	0	0
6/12/2024 7:09	29402	BELT_T1	1	1	0	8.5	8.6	0.1	0	0	0	0	0	0	0	0
6/12/2024 7:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/12/2024 7:10	56802	BENV_T2	1	1	0	0.6	1.3	0.7	-1.47	-1.45	0	0	0	0	0	0
6/12/2024 7:11	56802	BENV_T2	1	1	0	0.6	1.3	0.7	-1.47	-1.45	0	0	0	0	0	0
6/12/2024 7:12	15203	SFAR_T2	0	0	0	0	0	0	-1.33	-1.31	0	0	0	0	0	0
6/12/2024 7:15	46801	HEPB_T2	2	2	0	0.15	0.75	0.6	0.52	0.54	0	0	0	0	0	0
6/12/2024 7:16	58402	MORO_T1	0	0	0	0	0	0	-1.13	-1.14	3	3	0	2400	2400	0
6/12/2024 7:19	57104	SPHI_T2	1	1	0	2.5	2.1	-0.4	0	0	0	0	0	0	0	0
6/12/2024 7:19	57103	SPHI_T2	0	0	0	0	0	0	-1.64	-1.67	0	0	0	0	0	0
6/12/2024 7:19	57106	SPHI_T2	3	3	0	1.5	1.5	0	0	0	0	0	0	0	0	0
6/12/2024 7:19	57101	SPHI_T2	6	6	0	0.22	0.52	0.3	0	0	0	0	0	0	0	0
6/12/2024 7:20	58006	WCAR_T2	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
6/12/2024 7:21	57103	SPHI_T2	0	0	0	0	0	0	-1.64	-1.67	0	0	0	0	0	0
6/12/2024 7:21	57104	SPHI_T2	1	1	0	2.5	2.1	-0.4	0	0	0	0	0	0	0	0
6/12/2024 7:21	57101	SPHI_T2	6	6	0	0.22	0.52	0.3	0	0	0	0	0	0	0	0
6/12/2024 7:21	57106	SPHI_T2	3	3	0	1.5	1.5	0	0	0	0	0	0	0	0	0
6/12/2024 7:26	45501	DERR_T2	0	0	0	0	0	0	0.68	0.58	2	2	0	1800	1800	0
6/12/2024 7:27	54504	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 7:27	54505	ENOL_T2	1	1	0	0.5	0.5	0	-1.37	-1.36	1	1	0	600	600	0
6/12/2024 7:27	54502	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
6/12/2024 7:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 7:28	45501	DERR_T2	0	0	0	0	0	0	0.68	0.58	2	2	0	1800	1800	0
6/12/2024 7:29	62105	ELAN_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
6/12/2024 7:30	41801	GOCI_T2	0	52	52	0	0.19	0.19	0	0	0	0	0	0	0	0
6/12/2024 7:31	51204	MTON_T2	0	0	0	0	0	0	-0.38	-0.38	1	1	0	600	600	0
6/12/2024 7:32	13501	MCMI_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
6/12/2024 7:32	13502	MCMI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/12/2024 7:32	47401	PENS_T1	25	3	-22	0.2	0.27	0.07	2.69	2.97	0	0	0	0	0	0
6/12/2024 7:32	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 7:34	58401	MORO_T1	0	0	0	0	0	0	-1.04	-1.03	1	1	0	600	600	0
6/12/2024 7:35	58401	MORO_T1	0	0	0	0	0	0	-1.04	-1.03	1	1	0	600	600	0
6/12/2024 7:35	54203	PENN_T1	18	18	0	0.76	0.81	0.05	0.07	0.09	0	0	0	0	0	0
6/12/2024 7:35	54201	PENN_T1	11	23	12	0.68	0.42	-0.26	0	0	0	0	0	0	0	0
6/12/2024 7:36	20403	ASHF_T2	0	24	24	0	0.17	0.17	1.52	1.45	0	0	0	0	0	0
6/12/2024 7:36	20401	ASHF_T2	2	3	1	0.2	0.47	0.27	0	0	0	0	0	0	0	0
6/12/2024 7:36	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 7:36	47401	PENS_T1	25	3	-22	0.2	0.27	0.07	0.99	0.98	0	0	0	0	0	0
6/12/2024 7:38	60305	TWVA_T2	0	0	0	0	0	0	-1.68	-1.68	2	2	0	2400	2400	0
6/12/2024 7:39	67605	WARW_T1	12	14	2	0.39	0.44	0.05	-1.11	-1.09	0	0	0	0	0	0
6/12/2024 7:40	40504	CRES_T1	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
6/12/2024 7:40	40505	CRES_T1	3	3	0	4.93	5	0.07	0	0	0	0	0	0	0	0
6/12/2024 7:41	40505	CRES_T1	3	3	0	4.93	5	0.07	0	0	0	0	0	0	0	0
6/12/2024 7:41	62605	ENGL_T1	0	0	0	0	0	0	-1.51	-1.49	0	0	0	0	0	0
6/12/2024 7:41	40504	CRES_T1	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
6/12/2024 7:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 7:42	63306	GREE_T1	1	0	-1	0.2	0	-0.2	-1.45	-1.44	1	1	0	900	900	0
6/12/2024 7:42	40502	CRES_T2	9	0	-9	0.19	0	-0.19	-0.12	0.52	0	0	0	0	0	0
6/12/2024 7:43	29402	BELT_T1	1	3	2	8.6	3.1	-5.5	0	0	0	0	0	0	0	0
6/12/2024 7:43	41502	FAIR_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
6/12/2024 7:43	63306	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/12/2024 7:43	29401	BELT_T1	0	56	56	0	0.21	0.21	0	0	0	0	0	0	0	0
6/12/2024 7:45	46401	FLEM_T2	0	1	1	0	0.4	0.4	0.41	0.41	0	0	0	0	0	0
6/12/2024 7:45	63306	GREE_T1	0	0	0	0	0	0	-1.45	-1.44	1	1	0	900	900	0
6/12/2024 7:46	64902	MILL_T2	0	0	0	0	0	0	-0.68	-0.65	1	1	0	900	900	0
6/12/2024 7:51	66703	STRA_T1	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
6/12/2024 7:51	67803	WLAN_T1	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
6/12/2024 7:51	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 7:52	66703	STRA_T1	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
6/12/2024 7:52	67803	WLAN_T1	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
6/12/2024 7:52	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 7:54	67803	WLAN_T1	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
6/12/2024 7:54	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 7:55	45502	DERR_T2	0	3	3	0	0.5	0.5	0.22	0.25	1	1	0	300	300	0
6/12/2024 7:57	63402	HONY_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
6/12/2024 7:57	63403	HONY_T2	0	0	0	0	0	0	-0.03	-0.01	1	1	0	600	600	0
6/12/2024 8:01	64904	MILL_T1	0	0	0	0	0	0	0.41	0.49	0	0	0	0	0	0
6/12/2024 8:02	52001	LING_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
6/12/2024 8:03	40601	PIGR_T1	4	25	21	0.18	0.18	0	0	0	0	0	0	0	0	0
6/12/2024 8:03	40602	PIGR_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
6/12/2024 8:05	58006	WCAR_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
6/12/2024 8:07	14402	SSLA_T1	0	25	25	0	0.12	0.12	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/12/2024 8:07	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.31	0	0	0	0	0	0
6/12/2024 8:07	14401	SSLA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 8:07	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
6/12/2024 8:07	14403	SSLA_T1	0	0	0	0	0	0	0.75	0.85	0	0	0	0	0	0
6/12/2024 8:07	14404	SSLA_T1	1	3	2	5.9	2.3	-3.6	0	0	0	0	0	0	0	0
6/12/2024 8:08	56802	BENV_T2	4	211	207	0.43	0.41	-0.02	-1.42	-1.41	0	0	0	0	0	0
6/12/2024 8:08	57104	SPHI_T2	1	1	0	2.4	1.7	-0.7	0	0	0	0	0	0	0	0
6/12/2024 8:08	57101	SPHI_T2	0	6	6	0	0.8	0.8	0	0	0	0	0	0	0	0
6/12/2024 8:08	57103	SPHI_T2	0	0	0	0	0	0	-1.47	-1.47	0	0	0	0	0	0
6/12/2024 8:08	57106	SPHI_T2	3	3	0	1.23	1.77	0.54	0	0	0	0	0	0	0	0
6/12/2024 8:08	20401	ASHF_T2	3	6	3	0.4	0.43	0.03	0	0	0	0	0	0	0	0
6/12/2024 8:08	20403	ASHF_T2	24	2	-22	0.17	0.1	-0.07	1.49	1.48	0	0	0	0	0	0
6/12/2024 8:09	56803	BENV_T1	0	1	1	0	0.4	0.4	-0.1	-0.1	0	0	0	0	0	0
6/12/2024 8:09	56802	BENV_T2	4	211	207	0.43	0.41	-0.02	-5.69	-5.65	0	0	0	0	0	0
6/12/2024 8:09	56801	BENV_T1	7	24	17	0.49	0.81	0.32	0	0	0	0	0	0	0	0
6/12/2024 8:10	56802	BENV_T2	4	211	207	0.43	0.41	-0.02	-1.42	-1.41	0	0	0	0	0	0
6/12/2024 8:11	53902	HALI_T2	1	1	0	5.4	5.8	0.4	0	0	0	0	0	0	0	0
6/12/2024 8:11	53903	HALI_T2	2	2	0	1	1.55	0.55	-0.18	-0.17	0	0	0	0	0	0
6/12/2024 8:11	53901	HALI_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
6/12/2024 8:12	56801	BENV_T1	7	24	17	0.49	0.81	0.32	0	0	0	0	0	0	0	0
6/12/2024 8:12	53901	HALI_T2	1	1	0	0.4	0.9	0.5	-1.04	-1.03	0	0	0	0	0	0
6/12/2024 8:12	56802	BENV_T2	4	211	207	0.43	0.41	-0.02	-1.42	-1.41	0	0	0	0	0	0
6/12/2024 8:12	53902	HALI_T2	1	1	0	5.4	5.8	0.4	0	0	0	0	0	0	0	0
6/12/2024 8:12	56803	BENV_T1	0	1	1	0	0.4	0.4	-0.2	-0.2	0	0	0	0	0	0
6/12/2024 8:12	53903	HALI_T2	2	2	0	1	1.55	0.55	0	0	0	0	0	0	0	0
6/12/2024 8:13	52403	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/12/2024 8:13	52402	GRPA_T2	0	3	3	0	0.2	0.2	-1.83	-1.84	0	0	0	0	0	0
6/12/2024 8:14	53902	HALI_T2	1	1	0	5.4	5.8	0.4	0	0	0	0	0	0	0	0
6/12/2024 8:14	52403	GRPA_T2	0	1	1	0	0.3	0.3	0.1	0.12	0	0	0	0	0	0
6/12/2024 8:14	56801	BENV_T1	7	24	17	0.49	0.81	0.32	0	0	0	0	0	0	0	0
6/12/2024 8:14	52402	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 8:14	46401	FLEM_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
6/12/2024 8:14	53901	HALI_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
6/12/2024 8:14	46402	FLEM_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
6/12/2024 8:14	56803	BENV_T1	0	1	1	0	0.4	0.4	-0.1	-0.1	0	0	0	0	0	0
6/12/2024 8:14	53903	HALI_T2	2	2	0	1	1.55	0.55	-0.18	-0.17	0	0	0	0	0	0
6/12/2024 8:15	63501	HEID_TBK1-2	1	2	1	0.1	0.6	0.5	0.14	0.12	1	1	0	900	900	0
6/12/2024 8:16	52004	LING_T2	1	1	0	0.2	0.5	0.3	0.29	0.3	0	0	0	0	0	0
6/12/2024 8:16	53901	HALI_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
6/12/2024 8:16	52006	LING_T2	2	2	0	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
6/12/2024 8:16	52002	LING_T2	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
6/12/2024 8:16	22905	HARW_T1	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
6/12/2024 8:16	53903	HALI_T2	2	2	0	1.55	1.3	-0.25	-0.18	-0.17	0	0	0	0	0	0
6/12/2024 8:16	53902	HALI_T2	1	2	1	5.8	2.8	-3	0	0	0	0	0	0	0	0
6/12/2024 8:17	50506	MECH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/12/2024 8:17	50505	MECH_T1	0	0	0	0	0	0	-2.39	-2.43	0	0	0	0	0	0
6/12/2024 8:17	50501	MECH_T1	4	4	0	1	1.03	0.03	0	0	0	0	0	0	0	0
6/12/2024 8:17	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 8:17	50502	MECH_T1	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
6/12/2024 8:18	50501	MECH_T1	4	4	0	1	1.03	0.03	0	0	0	0	0	0	0	0
6/12/2024 8:18	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 8:18	50506	MECH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/12/2024 8:18	50502	MECH_T1	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
6/12/2024 8:18	50505	MECH_T1	0	0	0	0	0	0	-2.39	-2.43	0	0	0	0	0	0
6/12/2024 8:21	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 8:21	58006	WCAR_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
6/12/2024 8:21	57006	WHHI_T2	33	7	-26	0.18	0.17	-0.01	-0.94	-0.95	0	0	0	0	0	0
6/12/2024 8:22	14402	SSLA_T1	0	106	106	0	0.16	0.16	0	0	0	0	0	0	0	0
6/12/2024 8:22	14403	SSLA_T1	0	0	0	0	0	0	0.85	0.86	0	0	0	0	0	0
6/12/2024 8:22	14401	SSLA_T1	0	6	6	0	0.28	0.28	0	0	0	0	0	0	0	0
6/12/2024 8:22	14404	SSLA_T1	1	28	27	5.8	0.36	-5.44	0	0	0	0	0	0	0	0
6/12/2024 8:23	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 8:23	57006	WHHI_T2	33	7	-26	0.18	0.17	-0.01	-0.35	-0.15	0	0	0	0	0	0
6/12/2024 8:23	14802	TREI_T2	0	19	19	0	0.27	0.27	0.42	0.44	0	0	0	0	0	0
6/12/2024 8:23	14801	TREI_T2	0	62	62	0	0.21	0.21	0	0	0	0	0	0	0	0
6/12/2024 8:24	14801	TREI_T2	0	62	62	0	0.21	0.21	0.46	0.52	0	0	0	0	0	0
6/12/2024 8:24	14802	TREI_T2	0	19	19	0	0.27	0.27	0.42	0.44	0	0	0	0	0	0
6/12/2024 8:25	14802	TREI_T2	0	19	19	0	0.27	0.27	0	0	0	0	0	0	0	0
6/12/2024 8:25	41502	FAIR_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
6/12/2024 8:25	14801	TREI_T2	0	62	62	0	0.21	0.21	0.46	0.52	0	0	0	0	0	0
6/12/2024 8:26	51101	CARL_T1	2	1	-1	2.8	5.9	3.1	0	0	0	0	0	0	0	0
6/12/2024 8:26	51108	CARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	600	600	0
6/12/2024 8:28	22003	BOHE_T1	7	48	41	0.39	0.22	-0.17	0	0	0	0	0	0	0	0
6/12/2024 8:28	22001	BOHE_T1	1	27	26	0.1	0.13	0.03	0.26	0.26	0	0	0	0	0	0
6/12/2024 8:28	22002	BOHE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 8:31	46504	LOHA_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/12/2024 8:31	46506	LOHA_T1	1	1	0	0.2	0.4	0.2	-0.74	-0.72	0	0	0	0	0	0
6/12/2024 8:35	16605	PONO_T1	0	0	0	0	0	0	-0.4	-0.38	1	1	0	1200	1200	0
6/12/2024 8:36	15703	TANN_T2	1	1	0	5.2	4.8	-0.4	0	0	0	0	0	0	0	0
6/12/2024 8:36	15702	TANN_T2	0	20	20	0	0.12	0.12	-0.62	-0.7	0	0	0	0	0	0
6/12/2024 8:36	67505	WEWI_T1	0	0	0	0	0	0	-0.13	-0.07	1	1	0	900	900	0
6/12/2024 8:36	67501	WEWI_T1	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
6/12/2024 8:40	67505	WEWI_T1	0	0	0	0	0	0	-0.13	-0.07	1	1	0	900	900	0
6/12/2024 8:40	67501	WEWI_T1	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
6/12/2024 8:41	10805	CHHI_T2	1	1	0	8.5	8.5	0	-0.5	-0.51	1	1	0	600	600	0
6/12/2024 8:42	29401	BELT_T1	39	91	52	0.18	0.28	0.1	0	0	1	1	0	900	900	0
6/12/2024 8:42	29402	BELT_T1	2	3	1	4.55	3.37	-1.18	0	0	0	0	0	0	0	0
6/12/2024 8:43	40101	HUNT_T2	0	1	1	0	0	0	-0.3	-0.11	0	0	0	0	0	0
6/12/2024 8:44	29401	BELT_T1	39	91	52	0.18	0.28	0.1	0	0	1	1	0	900	900	0
6/12/2024 8:44	29402	BELT_T1	2	3	1	4.55	3.37	-1.18	0	0	0	0	0	0	0	0
6/12/2024 8:46	59202	THOM_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/12/2024 8:47	64101	REFR_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
6/12/2024 8:48	57205	ROSS_T1	1	1	0	1.3	0.4	-0.9	0.24	0.27	0	0	0	0	0	0
6/12/2024 8:48	57203	ROSS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 8:48	64101	REFR_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
6/12/2024 8:49	66503	SMAN_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 8:49	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/12/2024 8:49	66504	SMAN_T2	0	0	0	0	0	0	-0.26	-0.22	0	0	0	0	0	0
6/12/2024 8:49	63401	HONY_T1	0	0	0	0	0	0	0.72	0.99	0	0	0	0	0	0
6/12/2024 8:49	12807	MICK_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
6/12/2024 8:49	13503	MCMI_T2	3	2	-1	0.4	0.7	0.3	-0.01	-0.01	0	0	0	0	0	0
6/12/2024 8:49	57401	SPAN_T1	2	2	0	0.15	0.35	0.2	-1.03	-0.96	1	1	0	600	600	0
6/12/2024 8:49	57403	SPAN_T1	7	15	8	0.19	0.21	0.02	0	0	0	0	0	0	0	0
6/12/2024 8:49	64101	REFR_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
6/12/2024 8:49	12802	MICK_T1	0	0	0	0	0	0	-1	-0.97	0	0	0	0	0	0
6/12/2024 8:50	57403	SPAN_T1	7	15	8	0.19	0.21	0.02	0	0	0	0	0	0	0	0
6/12/2024 8:50	57205	ROSS_T1	1	1	0	1.3	0.4	-0.9	0	0	0	0	0	0	0	0
6/12/2024 8:50	63401	HONY_T1	0	0	0	0	0	0	0.72	0.99	0	0	0	0	0	0
6/12/2024 8:50	57401	SPAN_T1	2	2	0	0.15	0.35	0.2	-1.03	-0.96	1	1	0	600	600	0
6/12/2024 8:50	57203	ROSS_T1	0	2	2	0	0	0	-0.35	-0.34	0	0	0	0	0	0
6/12/2024 8:50	60502	NMAN_T2	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
6/12/2024 8:50	67605	WARW_T1	15	22	7	0.43	0.57	0.14	-1.03	-1.01	0	0	0	0	0	0
6/12/2024 8:50	60501	NMAN_T2	3	3	0	4.7	5.53	0.83	0	0	0	0	0	0	0	0
6/12/2024 8:50	12802	MICK_T1	0	0	0	0	0	0	-1	-0.97	0	0	0	0	0	0
6/12/2024 8:50	60504	NMAN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/12/2024 8:50	12807	MICK_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
6/12/2024 8:51	67605	WARW_T1	15	22	7	0.43	0.57	0.14	-1.01	-0.99	0	0	0	0	0	0
6/12/2024 8:51	57205	ROSS_T1	1	1	0	1.3	0.4	-0.9	0	0	0	0	0	0	0	0
6/12/2024 8:51	63401	HONY_T1	0	0	0	0	0	0	0.99	1	0	0	0	0	0	0
6/12/2024 8:51	64101	REFR_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
6/12/2024 8:51	57203	ROSS_T1	0	2	2	0	0	0	-0.7	-0.68	0	0	0	0	0	0
6/12/2024 8:51	57403	SPAN_T1	7	15	8	0.19	0.21	0.02	0	0	0	0	0	0	0	0
6/12/2024 8:51	57103	SPHI_T2	1	0	-1	0.2	0	-0.2	-1.46	-1.38	0	0	0	0	0	0
6/12/2024 8:51	57106	SPHI_T2	3	3	0	1.67	1.63	-0.04	0	0	0	0	0	0	0	0
6/12/2024 8:51	57401	SPAN_T1	2	2	0	0.15	0.35	0.2	-1.03	-0.96	1	1	0	600	600	0
6/12/2024 8:51	57101	SPHI_T2	6	6	0	0.68	0.5	-0.18	0	0	0	0	0	0	0	0
6/12/2024 8:51	57104	SPHI_T2	1	2	1	1.8	3.15	1.35	0	0	0	0	0	0	0	0
6/12/2024 8:52	66503	SMAN_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 8:52	66504	SMAN_T2	0	0	0	0	0	0	-0.44	-0.35	0	0	0	0	0	0
6/12/2024 8:52	58006	WCAR_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
6/12/2024 8:52	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/12/2024 8:52	57403	SPAN_T1	7	15	8	0.19	0.21	0.02	0	0	0	0	0	0	0	0
6/12/2024 8:52	57401	SPAN_T1	2	2	0	0.15	0.35	0.2	-0.96	-0.78	1	1	0	600	600	0
6/12/2024 8:53	57004	WHHI_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
6/12/2024 8:53	57401	SPAN_T1	2	2	0	0.15	0.35	0.2	-0.96	-0.78	1	1	0	600	600	0
6/12/2024 8:53	57003	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 8:53	57006	WHHI_T2	7	1	-6	0.14	0.2	0.06	0	0	0	0	0	0	0	0
6/12/2024 8:53	57403	SPAN_T1	7	15	8	0.19	0.21	0.02	0	0	0	0	0	0	0	0
6/12/2024 8:53	67605	WARW_T1	15	22	7	0.43	0.57	0.14	-1.01	-0.99	0	0	0	0	0	0
6/12/2024 8:54	57004	WHHI_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
6/12/2024 8:54	57003	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 8:54	57006	WHHI_T2	7	1	-6	0.14	0.2	0.06	0	0	0	0	0	0	0	0
6/12/2024 8:55	57403	SPAN_T1	7	15	8	0.19	0.21	0.02	0	0	0	0	0	0	0	0
6/12/2024 8:55	57401	SPAN_T1	2	2	0	0.15	0.35	0.2	-0.96	-0.78	1	1	0	600	600	0
6/12/2024 8:57	64101	REFR_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
6/12/2024 9:01	58401	MORO_T1	0	0	0	0	0	0	-0.99	-0.98	1	1	0	600	600	0
6/12/2024 9:04	65904	SAKR_T2	0	0	0	0	0	0	-1.64	-1.63	3	3	0	1500	1500	0
6/12/2024 9:04	65901	SAKR_T2	1	1	0	7.8	7.9	0.1	0	0	0	0	0	0	0	0
6/12/2024 9:05	64101	REFR_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
6/12/2024 9:05	41902	REED_T1	0	0	0	0	0	0	1.18	1.17	0	0	0	0	0	0
6/12/2024 9:07	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 9:07	51301	WIND_T1	2	3	1	0.3	0.37	0.07	0	0	0	0	0	0	0	0
6/12/2024 9:07	43301	WATS_T2	1	0	-1	0.5	0	-0.5	-0.65	0.34	1	0	-1	900	0	-900
6/12/2024 9:07	51305	WIND_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 9:08	41902	REED_T1	0	0	0	0	0	0	1.17	1.17	0	0	0	0	0	0
6/12/2024 9:08	14801	TREI_T2	50	61	11	0.19	0.21	0.02	0.54	0.55	0	0	0	0	0	0
6/12/2024 9:08	64101	REFR_T1	0	0	0	0	0	0	0.1	-0.07	0	0	0	0	0	0
6/12/2024 9:08	14802	TREI_T2	15	14	-1	0.25	0.19	-0.06	0	0	0	0	0	0	0	0
6/12/2024 9:08	58006	WCAR_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
6/12/2024 9:11	29401	BELT_T1	83	107	24	0.25	0.31	0.06	0	0	1	1	0	900	900	0
6/12/2024 9:11	29402	BELT_T1	2	3	1	5	3.5	-1.5	0	0	0	0	0	0	0	0
6/12/2024 9:12	51305	WIND_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 9:12	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/12/2024 9:12	51301	WIND_T1	2	3	1	0.3	0.37	0.07	0	0	0	0	0	0	0	0
6/12/2024 9:13	24501	GOUL_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
6/12/2024 9:14	53901	HALI_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
6/12/2024 9:14	13503	MCMI_T2	1	3	2	1	0.53	-0.47	-0.01	-0.01	0	0	0	0	0	0
6/12/2024 9:14	53903	HALI_T2	5	12	7	0.82	0.58	-0.24	0	0	0	0	0	0	0	0
6/12/2024 9:14	53902	HALI_T2	3	2	-1	2.37	3.2	0.83	-0.16	-0.15	0	0	0	0	0	0
6/12/2024 9:15	13503	MCMI_T2	2	2	0	0.7	0.7	0	-0.01	-0.01	0	0	0	0	0	0
6/12/2024 9:18	46301	ROHR_T1	5	1	-4	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/12/2024 9:18	46302	ROHR_T1	4	4	0	2.53	2.05	-0.48	0.13	0.14	0	0	0	0	0	0
6/12/2024 9:21	46302	ROHR_T1	4	4	0	2.53	2.05	-0.48	0.14	0.14	0	0	0	0	0	0
6/12/2024 9:21	46301	ROHR_T1	5	1	-4	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/12/2024 9:22	46301	ROHR_T1	5	1	-4	0.4	0.2	-0.2	0.23	0.23	0	0	0	0	0	0
6/12/2024 9:22	67203	TEHI_T1	0	1	1	0	0.2	0.2	2.49	2.6	3	3	0	2100	2100	0
6/12/2024 9:22	46302	ROHR_T1	4	4	0	2.53	2.05	-0.48	0	0	0	0	0	0	0	0
6/12/2024 9:23	67804	WLAN_T1	2	3	1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
6/12/2024 9:23	67803	WLAN_T1	1	4	3	0.2	0.2	0	-0.82	-0.81	0	0	0	0	0	0
6/12/2024 9:24	58006	WCAR_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
6/12/2024 9:26	29402	BELT_T1	3	3	0	3.5	3.4	-0.1	0	0	0	0	0	0	0	0
6/12/2024 9:26	29401	BELT_T1	79	106	27	0.29	0.3	0.01	0	0	1	1	0	900	900	0
6/12/2024 9:26	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 9:27	44601	SALE_T2	0	0	0	0	0	0	0	0	2	2	0	900	900	0
6/12/2024 9:30	44601	SALE_T2	0	0	0	0	0	0	0	0	2	2	0	900	900	0
6/12/2024 9:30	47001	HUGH_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
6/12/2024 9:31	43201	MVIL_T2	0	1	1	0	0.3	0.3	-1.29	-1.29	0	0	0	0	0	0
6/12/2024 9:31	52402	GRPA_T2	5	4	-1	0.18	0.18	0	0	0	0	0	0	0	0	0
6/12/2024 9:31	52403	GRPA_T2	3	3	0	0.3	0.43	0.13	0.18	0.22	0	0	0	0	0	0
6/12/2024 9:32	47001	HUGH_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
6/12/2024 9:33	58401	MORO_T1	0	0	0	0	0	0	-1.95	-1.91	2	2	0	1200	1200	0
6/12/2024 9:34	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/12/2024 9:34	56501	ROCK_T2	3	4	1	2.83	3.13	0.3	0.02	0.03	0	0	0	0	0	0
6/12/2024 9:35	14401	SSLA_T1	7	4	-3	0.23	0.3	0.07	-0.3	-0.24	0	0	0	0	0	0
6/12/2024 9:35	14403	SSLA_T1	3	4	1	0.27	0.28	0.01	0	0	0	0	0	0	0	0
6/12/2024 9:35	14402	SSLA_T1	44	9	-35	0.2	0.33	0.13	0	0	0	0	0	0	0	0
6/12/2024 9:35	56501	ROCK_T2	3	4	1	2.83	3.13	0.3	0.07	0.13	0	0	0	0	0	0
6/12/2024 9:35	66701	STRA_T1	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
6/12/2024 9:35	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/12/2024 9:35	66703	STRA_T1	0	0	0	0	0	0	-0.03	0.09	0	0	0	0	0	0
6/12/2024 9:35	14404	SSLA_T1	12	7	-5	0.73	1.09	0.36	0	0	0	0	0	0	0	0
6/12/2024 9:36	14404	SSLA_T1	12	7	-5	0.73	1.09	0.36	0	0	0	0	0	0	0	0
6/12/2024 9:36	14402	SSLA_T1	44	9	-35	0.2	0.33	0.13	0	0	0	0	0	0	0	0
6/12/2024 9:36	14401	SSLA_T1	7	4	-3	0.23	0.3	0.07	-0.24	-0.32	0	0	0	0	0	0
6/12/2024 9:36	14403	SSLA_T1	3	4	1	0.27	0.28	0.01	0	0	0	0	0	0	0	0
6/12/2024 9:37	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/12/2024 9:37	56501	ROCK_T2	3	4	1	2.83	3.13	0.3	0.03	0.05	0	0	0	0	0	0
6/12/2024 9:38	56501	ROCK_T2	3	4	1	2.83	3.13	0.3	0.03	0.05	0	0	0	0	0	0
6/12/2024 9:38	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/12/2024 9:39	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/12/2024 9:39	56501	ROCK_T2	3	4	1	2.83	3.13	0.3	0.03	0.05	0	0	0	0	0	0
6/12/2024 9:41	22401	MORG_T2	0	47	47	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 9:41	22405	MORG_T2	0	0	0	0	0	0	-1.49	-0.18	0	0	0	0	0	0
6/12/2024 9:43	49803	UNIV_T1	0	2	2	0	0.4	0.4	-0.89	-0.87	0	0	0	0	0	0
6/12/2024 9:43	22401	MORG_T2	0	47	47	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 9:43	22405	MORG_T2	0	0	0	0	0	0	-1.49	-0.18	0	0	0	0	0	0
6/12/2024 9:43	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 9:46	55002	NEWP_T1	14	15	1	0.6	0.95	0.35	-0.45	-0.44	0	0	0	0	0	0
6/12/2024 9:47	55002	NEWP_T1	14	15	1	0.6	0.95	0.35	-0.23	-0.22	0	0	0	0	0	0
6/12/2024 9:48	58401	MORO_T1	0	0	0	0	0	0	-1.91	-1.84	2	2	0	1200	1200	0
6/12/2024 9:49	55002	NEWP_T1	14	15	1	0.6	0.95	0.35	-0.23	-0.22	0	0	0	0	0	0
6/12/2024 9:53	43301	WATS_T2	1	1	0	0.6	0.5	-0.1	-1.23	-1.2	2	2	0	1800	1800	0
6/12/2024 9:54	43301	WATS_T2	1	1	0	0.6	0.5	-0.1	-0.61	-0.6	1	1	0	900	900	0
6/12/2024 9:55	43301	WATS_T2	1	1	0	0.6	0.5	-0.1	-0.61	-0.6	1	1	0	900	900	0
6/12/2024 9:56	58006	WCAR_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
6/12/2024 9:57	43301	WATS_T2	1	1	0	0.6	0.5	-0.1	-0.61	-0.6	1	1	0	900	900	0
6/12/2024 9:57	56802	BENV_T2	5	11	6	0.5	0.48	-0.02	-0.62	-0.6	0	0	0	0	0	0
6/12/2024 9:57	46001	BERW_T1	0	0	0	0	0	0	-1.04	-0.92	0	0	0	0	0	0
6/12/2024 9:57	46005	BERW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 9:58	10801	CHHI_T1	2	4	2	0.15	0.6	0.45	-0.31	-0.54	1	1	0	900	900	0
6/12/2024 9:58	46001	BERW_T1	0	0	0	0	0	0	-0.52	-0.46	0	0	0	0	0	0
6/12/2024 9:58	43301	WATS_T2	1	1	0	0.6	0.5	-0.1	-0.61	-0.6	1	1	0	900	900	0
6/12/2024 9:58	46005	BERW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 9:59	46005	BERW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 9:59	46001	BERW_T1	0	0	0	0	0	0	-0.52	-0.46	0	0	0	0	0	0
6/12/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	-0.38	-0.26	0	0	0	0	0	0
6/12/2024 10:00	29401	BELT_T1	64	40	-24	0.24	0.19	-0.05	0	0	1	1	0	900	900	0
6/12/2024 10:00	22901	HARW_T1	0	0	0	0	0	0	-0.31	-0.41	1	1	0	1200	1200	0
6/12/2024 10:00	14404	SSLA_T1	5	2	-3	1.38	3.1	1.72	0	0	0	0	0	0	0	0
6/12/2024 10:00	40601	PIGR_T1	4	5	1	0.15	0.26	0.11	0	0	0	0	0	0	0	0
6/12/2024 10:00	66504	SMAN_T2	0	0	0	0	0	0	-0.21	-0.25	0	0	0	0	0	0
6/12/2024 10:00	67605	WARW_T1	13	15	2	0.4	0.49	0.09	-1.86	-1.84	0	0	0	0	0	0
6/12/2024 10:00	47403	PENS_T1	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
6/12/2024 10:00	60305	TWVA_T2	0	0	0	0	0	0	-0.81	-1.45	2	2	0	2400	2400	0
6/12/2024 10:00	47402	PENS_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
6/12/2024 10:00	40505	CRES_T1	3	3	0	4	3.67	-0.33	0.39	0.45	0	0	0	0	0	0
6/12/2024 10:00	14403	SSLA_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/12/2024 10:00	47401	PENS_T1	1	4	3	0.1	0.9	0.8	1.06	1.15	0	0	0	0	0	0
6/12/2024 10:00	29402	BELT_T1	2	3	1	5	3.27	-1.73	0	0	0	0	0	0	0	0
6/12/2024 10:00	58006	WCAR_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
6/12/2024 10:00	66502	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/12/2024 10:00	14401	SSLA_T1	2	2	0	0.1	0.35	0.25	-0.32	-0.24	0	0	0	0	0	0
6/12/2024 10:00	41902	REED_T1	0	0	0	0	0	0	1.13	1.15	0	0	0	0	0	0
6/12/2024 10:00	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 10:00	55105	WERT_T1	1	2	1	0.3	0.3	0	-0.38	-0.37	1	1	0	900	900	0
6/12/2024 10:00	67502	WEWI_T2	2	2	0	0.2	0.85	0.65	-0.08	-0.06	0	0	0	0	0	0
6/12/2024 10:00	66503	SMAN_T2	0	0	0	0	0	0	0.57	0.6	0	0	0	0	0	0
6/12/2024 10:00	57401	SPAN_T1	1	3	2	0.2	0.57	0.37	-0.98	-0.93	1	1	0	600	600	0
6/12/2024 10:00	67804	WLAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/12/2024 10:00	14402	SSLA_T1	6	2	-4	0.38	0.2	-0.18	0	0	0	0	0	0	0	0
6/12/2024 10:00	57403	SPAN_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/12/2024 10:00	40602	PIGR_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
6/12/2024 10:00	67803	WLAN_T1	1	2	1	0.1	0.3	0.2	-1.59	-1.57	0	0	0	0	0	0
6/12/2024 10:02	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/12/2024 10:04	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/12/2024 10:04	42903	MIDD_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
6/12/2024 10:04	42902	MIDD_T2	2	5	3	0.5	0.46	-0.04	0.83	1.05	0	0	0	0	0	0
6/12/2024 10:06	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/12/2024 10:06	67605	WARW_T1	13	15	2	0.4	0.49	0.09	-1.84	-1.82	0	0	0	0	0	0
6/12/2024 10:06	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 10:07	65901	SAKR_T2	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
6/12/2024 10:07	65904	SAKR_T2	0	0	0	0	0	0	-1.55	-1.54	3	3	0	1500	1500	0
6/12/2024 10:07	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
6/12/2024 10:08	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
6/12/2024 10:08	67502	WEWI_T2	2	2	0	0.2	0.85	0.65	0	0	0	0	0	0	0	0
6/12/2024 10:08	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 10:08	66502	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/12/2024 10:08	66703	STRA_T1	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
6/12/2024 10:08	67503	WEWI_T2	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
6/12/2024 10:08	43301	WATS_T2	1	1	0	0.5	0.5	0	-0.6	-0.59	1	1	0	900	900	0
6/12/2024 10:08	67605	WARW_T1	13	15	2	0.4	0.49	0.09	-0.92	-0.91	0	0	0	0	0	0
6/12/2024 10:08	66504	SMAN_T2	0	0	0	0	0	0	-0.12	0	0	0	0	0	0	0
6/12/2024 10:08	20401	ASHF_T2	3	2	-1	0.57	0.45	-0.12	0	0	0	0	0	0	0	0
6/12/2024 10:08	20403	ASHF_T2	0	1	1	0	0.1	0.1	2.87	3.05	0	0	0	0	0	0
6/12/2024 10:08	66701	STRA_T1	2	2	0	0.3	0.65	0.35	0	0	0	0	0	0	0	0
6/12/2024 10:08	58006	WCAR_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
6/12/2024 10:09	56801	BENV_T1	28	23	-5	0.82	0.8	-0.02	-0.26	-0.21	1	1	0	600	600	0
6/12/2024 10:09	67605	WARW_T1	13	15	2	0.4	0.49	0.09	0	0	0	0	0	0	0	0
6/12/2024 10:09	67804	WLAN_T1	1	1	0	0.2	0.4	0.2	-1	-0.98	0	0	0	0	0	0
6/12/2024 10:09	49803	UNIV_T1	2	2	0	0.4	0.4	0	-0.84	-0.91	0	0	0	0	0	0
6/12/2024 10:09	67803	WLAN_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/12/2024 10:09	29401	BELT_T1	64	40	-24	0.24	0.19	-0.05	0	0	2	2	0	1800	1800	0
6/12/2024 10:09	29402	BELT_T1	2	3	1	5	3.27	-1.73	0	0	0	0	0	0	0	0
6/12/2024 10:09	56802	BENV_T2	7	18	11	0.49	0.53	0.04	-0.6	-0.58	0	0	0	0	0	0
6/12/2024 10:09	56803	BENV_T1	3	5	2	0.37	0.82	0.45	0	0	0	0	0	0	0	0
6/12/2024 10:09	43301	WATS_T2	1	1	0	0.5	0.5	0	-0.6	-0.59	1	1	0	900	900	0
6/12/2024 10:09	49804	UNIV_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/12/2024 10:09	67303	WYOM_T2	1	1	0	0.9	1	0.1	-1.69	-1.58	0	0	0	0	0	0
6/12/2024 10:09	67603	WARW_T1	0	1	1	0	0.2	0.2	0.09	0.1	0	0	0	0	0	0
6/12/2024 10:10	67803	WLAN_T1	1	2	1	0.1	0.3	0.2	-0.78	-0.77	0	0	0	0	0	0
6/12/2024 10:10	43301	WATS_T2	1	1	0	0.5	0.5	0	-1.81	-1.77	3	3	0	2700	2700	0
6/12/2024 10:10	67804	WLAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/12/2024 10:10	20403	ASHF_T2	0	1	1	0	0.1	0.1	1.44	1.53	0	0	0	0	0	0
6/12/2024 10:10	20401	ASHF_T2	3	2	-1	0.57	0.45	-0.12	0	0	0	0	0	0	0	0
6/12/2024 10:10	56803	BENV_T1	3	5	2	0.37	0.82	0.45	0	0	0	0	0	0	0	0
6/12/2024 10:10	56801	BENV_T1	28	23	-5	0.82	0.8	-0.02	-0.26	-0.21	1	1	0	600	600	0
6/12/2024 10:11	43301	WATS_T2	1	1	0	0.5	0.5	0	-0.6	-0.59	1	1	0	900	900	0
6/12/2024 10:11	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 10:11	29402	BELT_T1	2	3	1	5	3.27	-1.73	0	0	0	0	0	0	0	0
6/12/2024 10:11	29401	BELT_T1	64	40	-24	0.24	0.19	-0.05	0	0	0	0	0	0	0	0
6/12/2024 10:11	45501	DERR_T2	0	0	0	0	0	0	1.62	1.49	4	4	0	3600	3600	0
6/12/2024 10:12	61803	EELI_T2	1	0	-1	0.3	0	-0.3	1.02	1.04	0	0	0	0	0	0
6/12/2024 10:12	56802	BENV_T2	7	18	11	0.49	0.53	0.04	-1.2	-1.17	0	0	0	0	0	0
6/12/2024 10:17	23203	HIRU_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
6/12/2024 10:17	56802	BENV_T2	8	73	65	0.5	0.31	-0.19	-0.6	-0.58	0	0	0	0	0	0
6/12/2024 10:17	46005	BERW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 10:17	58401	MORO_T1	0	0	0	0	0	0	-0.88	-0.84	1	1	0	600	600	0
6/12/2024 10:17	63401	HONY_T1	0	0	0	0	0	0	3.49	3.69	0	0	0	0	0	0
6/12/2024 10:17	46001	BERW_T1	0	0	0	0	0	0	-0.46	-0.37	0	0	0	0	0	0
6/12/2024 10:17	23202	HIRU_T2	1	0	-1	0.1	0	-0.1	0.08	0.08	0	0	0	0	0	0
6/12/2024 10:17	23201	HIRU_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
6/12/2024 10:18	40101	HUNT_T2	1	1	0	0.3	0	-0.3	-0.05	-0.04	0	0	0	0	0	0
6/12/2024 10:18	43201	MVIL_T2	1	1	0	0.2	0.5	0.3	-1.28	-1.27	0	0	0	0	0	0
6/12/2024 10:18	58401	MORO_T1	0	0	0	0	0	0	-0.88	-0.84	1	1	0	600	600	0
6/12/2024 10:19	40601	PIGR_T1	4	5	1	0.2	0.26	0.06	0	0	0	0	0	0	0	0
6/12/2024 10:19	40602	PIGR_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/12/2024 10:19	46001	BERW_T1	0	0	0	0	0	0	-0.46	-0.37	0	0	0	0	0	0
6/12/2024 10:19	46005	BERW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 10:20	40601	PIGR_T1	4	5	1	0.2	0.26	0.06	0	0	0	0	0	0	0	0
6/12/2024 10:20	58402	MORO_T1	0	0	0	0	0	0	-1.08	-1.07	3	3	0	2400	2400	0
6/12/2024 10:20	17002	RIRO_T2	3	4	1	0.73	0.98	0.25	0.8	0.78	0	0	0	0	0	0
6/12/2024 10:20	56501	ROCK_T2	1	3	2	8.8	4.75	-4.05	0.07	0.08	0	0	0	0	0	0
6/12/2024 10:20	67804	WLAN_T1	1	0	-1	0.4	0	-0.4	-1	-0.98	0	0	0	0	0	0
6/12/2024 10:20	40602	PIGR_T1	1	1	0	1	0.7	-0.3	0	0	1	1	0	600	600	0
6/12/2024 10:20	67502	WEWI_T2	2	2	0	0.85	0.5	-0.35	0	0	0	0	0	0	0	0
6/12/2024 10:20	56504	ROCK_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/12/2024 10:20	67803	WLAN_T1	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/12/2024 10:20	67503	WEWI_T2	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
6/12/2024 10:21	24201	PROV_T3	1	2	1	6.3	3.3	-3	-1.36	-1.35	1	1	0	1200	1200	0
6/12/2024 10:21	65003	NEFF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/12/2024 10:21	15702	TANN_T2	1	1	0	0.3	0.3	0	-0.28	-0.27	0	0	0	0	0	0
6/12/2024 10:21	15703	TANN_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
6/12/2024 10:21	58003	WCAR_T1	2	36	34	0.85	0.27	-0.58	1.76	1.78	0	0	0	0	0	0
6/12/2024 10:21	24204	PROV_T3	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
6/12/2024 10:21	65004	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 10:21	58001	WCAR_T1	5	7	2	1.12	1.16	0.04	0	0	0	0	0	0	0	0
6/12/2024 10:21	40602	PIGR_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
6/12/2024 10:21	40601	PIGR_T1	4	5	1	0.2	0.26	0.06	0	0	0	0	0	0	0	0
6/12/2024 10:21	64101	REFR_T1	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
6/12/2024 10:21	65001	NEFF_T2	0	0	0	0	0	0	-0.07	-0.06	1	1	0	1200	1200	0
6/12/2024 10:22	56501	ROCK_T2	1	3	2	8.8	4.75	-4.05	0.25	0.3	0	0	0	0	0	0
6/12/2024 10:22	67502	WEWI_T2	2	2	0	0.85	0.5	-0.35	0	0	0	0	0	0	0	0
6/12/2024 10:22	56504	ROCK_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/12/2024 10:22	15702	TANN_T2	1	1	0	0.3	0.3	0	-0.27	-0.3	0	0	0	0	0	0
6/12/2024 10:22	15703	TANN_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
6/12/2024 10:22	67503	WEWI_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
6/12/2024 10:22	66502	SMAN_T2	0	1	1	0	0.4	0.4	0.92	0.98	0	0	0	0	0	0
6/12/2024 10:23	53601	DALM_T2	1	1	0	0.6	0.9	0.3	-0.34	-0.33	1	1	0	900	900	0
6/12/2024 10:23	67503	WEWI_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
6/12/2024 10:23	67804	WLAN_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/12/2024 10:23	41902	REED_T1	0	0	0	0	0	0	1.16	1.17	0	0	0	0	0	0
6/12/2024 10:23	67502	WEWI_T2	2	2	0	0.85	0.5	-0.35	0	0	0	0	0	0	0	0
6/12/2024 10:23	67803	WLAN_T1	2	1	-1	0.3	0.2	-0.1	-0.77	-0.76	0	0	0	0	0	0
6/12/2024 10:24	15703	TANN_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
6/12/2024 10:24	58003	WCAR_T1	2	36	34	0.85	0.27	-0.58	0.89	0.9	0	0	0	0	0	0
6/12/2024 10:24	67803	WLAN_T1	2	1	-1	0.3	0.2	-0.1	-0.77	-0.76	0	0	0	0	0	0
6/12/2024 10:24	15702	TANN_T2	1	1	0	0.3	0.3	0	-0.27	-0.3	0	0	0	0	0	0
6/12/2024 10:24	58001	WCAR_T1	5	7	2	1.12	1.16	0.04	0	0	0	0	0	0	0	0
6/12/2024 10:24	67804	WLAN_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/12/2024 10:24	10801	CHHI_T1	2	2	0	0.2	0.15	-0.05	-0.15	-0.35	1	1	0	900	900	0
6/12/2024 10:25	10801	CHHI_T1	2	2	0	0.2	0.15	-0.05	-0.15	-0.35	1	1	0	900	900	0
6/12/2024 10:25	10805	CHHI_T2	2	2	0	4.85	9.1	4.25	-0.47	-0.48	1	1	0	600	600	0
6/12/2024 10:25	58001	WCAR_T1	5	7	2	1.12	1.16	0.04	0.89	0.89	0	0	0	0	0	0
6/12/2024 10:25	58003	WCAR_T1	2	36	34	0.85	0.27	-0.58	0.89	0.9	0	0	0	0	0	0
6/12/2024 10:26	10805	CHHI_T2	2	2	0	4.85	9.1	4.25	-0.47	-0.48	1	1	0	600	600	0
6/12/2024 10:27	63305	GREE_T1	1	1	0	8.2	0	-8.2	-1.74	-1.74	1	1	0	900	900	0
6/12/2024 10:27	20603	GRWO_T2	2	0	-2	0.15	0	-0.15	-0.55	-0.58	1	1	0	900	900	0
6/12/2024 10:28	20603	GRWO_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/12/2024 10:28	20601	GRWO_T2	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
6/12/2024 10:29	48901	FOSP_T2	0	0	0	0	0	0	-0.03	0.05	1	1	0	600	600	0
6/12/2024 10:29	65503	MOJO_T2	0	2	2	0	0.1	0.1	-0.7	-0.67	1	1	0	900	900	0
6/12/2024 10:30	58401	MORO_T1	0	0	0	0	0	0	-0.84	-0.81	1	1	0	600	600	0
6/12/2024 10:31	63302	GREE_T1	0	1	1	0	0	0	0.84	0.9	0	0	0	0	0	0
6/12/2024 10:31	48901	FOSP_T2	0	0	0	0	0	0	-0.03	0.05	1	1	0	600	600	0
6/12/2024 10:34	59302	MCAL_T1	3	2	-1	0.33	0.35	0.02	-0.04	0.02	1	1	0	600	600	0
6/12/2024 10:35	45602	WOOL_T1	5	7	2	0.38	0.53	0.15	0.69	0.7	0	0	0	0	0	0
6/12/2024 10:35	65503	MOJO_T2	2	2	0	0.1	0.45	0.35	-0.7	-0.67	1	1	0	900	900	0
6/12/2024 10:35	58401	MORO_T1	0	0	0	0	0	0	-1.69	-1.62	2	2	0	1200	1200	0
6/12/2024 10:35	45601	WOOL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 10:36	51108	CARL_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
6/12/2024 10:36	51102	CARL_T1	3	4	1	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
6/12/2024 10:36	51101	CARL_T1	2	1	-1	3.35	6.5	3.15	-0.9	-0.87	1	1	0	600	600	0
6/12/2024 10:37	45602	WOOL_T1	5	7	2	0.38	0.53	0.15	0.7	0.71	0	0	0	0	0	0
6/12/2024 10:37	45601	WOOL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 10:38	58003	WCAR_T1	35	17	-18	0.25	0.37	0.12	1.8	1.81	0	0	0	0	0	0
6/12/2024 10:38	58001	WCAR_T1	7	6	-1	1.13	1.17	0.04	0	0	0	0	0	0	0	0
6/12/2024 10:39	56802	BENV_T2	18	73	55	0.53	0.31	-0.22	-1.72	-1.69	0	0	0	0	0	0
6/12/2024 10:39	29401	BELT_T1	22	31	9	0.13	0.16	0.03	0	0	1	1	0	900	900	0
6/12/2024 10:39	29402	BELT_T1	1	2	1	8.7	4.5	-4.2	0	0	0	0	0	0	0	0
6/12/2024 10:40	45602	WOOL_T1	5	7	2	0.38	0.53	0.15	0.7	0.71	0	0	0	0	0	0
6/12/2024 10:40	62105	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/12/2024 10:40	45601	WOOL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 10:40	16102	BING_T2	0	0	0	0	0	0	0.05	0.05	1	1	0	1200	1200	0
6/12/2024 10:40	56802	BENV_T2	18	73	55	0.53	0.31	-0.22	-0.57	-0.56	0	0	0	0	0	0
6/12/2024 10:40	16103	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/12/2024 10:40	62102	ELAN_T1	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
6/12/2024 10:41	41001	LAUR_T2	2	4	2	1.3	1.23	-0.07	0	0	0	0	0	0	0	0
6/12/2024 10:41	56802	BENV_T2	18	73	55	0.53	0.31	-0.22	-0.57	-0.56	0	0	0	0	0	0
6/12/2024 10:41	41002	LAUR_T2	2	3	1	1	0.83	-0.17	0.06	0.07	0	0	0	0	0	0
6/12/2024 10:44	46004	BERW_T2	0	0	0	0	0	0	0.33	0.24	0	0	0	0	0	0
6/12/2024 10:44	46001	BERW_T1	0	0	0	0	0	0	-0.41	0.19	0	0	0	0	0	0
6/12/2024 10:45	46005	BERW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/12/2024 10:45	46001	BERW_T1	0	1	1	0	0	0	-0.41	0.19	0	0	0	0	0	0
6/12/2024 10:46	46503	LOHA_T1	2	1	-1	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
6/12/2024 10:46	53901	HALI_T2	2	2	0	0.55	0.35	-0.2	0	0	0	0	0	0	0	0
6/12/2024 10:46	46504	LOHA_T1	7	2	-5	0.44	0.95	0.51	0	0	0	0	0	0	0	0
6/12/2024 10:46	53902	HALI_T2	3	3	0	2.57	2.63	0.06	0	0	0	0	0	0	0	0
6/12/2024 10:46	46005	BERW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/12/2024 10:46	53903	HALI_T2	9	12	3	0.96	0.78	-0.18	-0.12	-0.11	0	0	0	0	0	0
6/12/2024 10:46	46506	LOHA_T1	2	2	0	0.8	0.55	-0.25	-0.32	-0.32	0	0	0	0	0	0
6/12/2024 10:46	46001	BERW_T1	0	1	1	0	0	0	-0.41	0.19	0	0	0	0	0	0
6/12/2024 10:46	46501	LOHA_T1	1	0	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/12/2024 10:47	46506	LOHA_T1	2	2	0	0.8	0.55	-0.25	-0.32	-0.32	0	0	0	0	0	0
6/12/2024 10:47	46504	LOHA_T1	7	2	-5	0.44	0.95	0.51	0	0	0	0	0	0	0	0
6/12/2024 10:47	46503	LOHA_T1	2	1	-1	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
6/12/2024 10:47	46501	LOHA_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/12/2024 10:48	46506	LOHA_T1	2	2	0	0.8	0.55	-0.25	-0.32	-0.32	0	0	0	0	0	0
6/12/2024 10:48	46501	LOHA_T1	1	0	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/12/2024 10:48	46504	LOHA_T1	7	2	-5	0.44	0.95	0.51	0	0	0	0	0	0	0	0
6/12/2024 10:48	42902	MIDD_T2	7	6	-1	0.7	0.57	-0.13	0.45	0.43	0	0	0	0	0	0
6/12/2024 10:48	46503	LOHA_T1	2	1	-1	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
6/12/2024 10:48	65402	MARI_T1	0	0	0	0	0	0	167.92	167.92	0	0	0	0	0	0
6/12/2024 10:48	42903	MIDD_T2	2	2	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
6/12/2024 10:49	46503	LOHA_T1	2	1	-1	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
6/12/2024 10:49	57306	MOAL_T2	0	0	0	0	0	0	-3.11	-3.1	1	1	0	1200	1200	0
6/12/2024 10:49	46501	LOHA_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/12/2024 10:49	57304	MOAL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/12/2024 10:49	57303	MOAL_T2	1	1	0	7.7	7.4	-0.3	0	0	0	0	0	0	0	0
6/12/2024 10:49	46506	LOHA_T1	2	2	0	0.8	0.55	-0.25	-0.64	-0.64	0	0	0	0	0	0
6/12/2024 10:49	46504	LOHA_T1	7	2	-5	0.44	0.95	0.51	0	0	0	0	0	0	0	0
6/12/2024 10:50	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/12/2024 10:51	64101	REFR_T1	0	2	2	0	0.5	0.5	-0.04	-0.03	0	0	0	0	0	0
6/12/2024 10:52	64101	REFR_T1	0	2	2	0	0.5	0.5	-0.04	-0.03	0	0	0	0	0	0
6/12/2024 10:52	43506	WWIL_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
6/12/2024 10:52	63304	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 10:52	43503	WWIL_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/12/2024 10:52	44301	BEAV_T2	2	1	-1	0.4	1.7	1.3	0.65	0.82	2	2	0	1500	1500	0
6/12/2024 10:52	43504	WWIL_T1	9	11	2	0.4	0.4	0	0.66	0.67	0	0	0	0	0	0
6/12/2024 10:52	63302	GREE_T1	0	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0
6/12/2024 10:52	44302	BEAV_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/12/2024 10:52	43505	WWIL_T1	1	1	0	2.9	3.1	0.2	0	0	0	0	0	0	0	0
6/12/2024 10:52	63305	GREE_T1	0	1	1	0	0.1	0.1	-1.62	-1.72	1	1	0	900	900	0
6/12/2024 10:53	67605	WARW_T1	14	14	0	0.59	0.57	-0.02	0	0	0	0	0	0	0	0
6/12/2024 10:53	56802	BENV_T2	73	17	-56	0.31	0.62	0.31	-0.56	-0.55	0	0	0	0	0	0
6/12/2024 10:53	67203	TEHI_T1	2	7	5	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/12/2024 10:53	67201	TEHI_T1	1	8	7	0.2	0	-0.2	1.43	1.46	1	1	0	600	600	0
6/12/2024 10:53	67603	WARW_T1	2	2	0	0.7	0.2	-0.5	0.12	0.13	0	0	0	0	0	0
6/12/2024 10:53	60101	COCA_T1	1	2	1	1.1	0.3	-0.8	0.43	0.52	0	0	0	0	0	0
6/12/2024 10:54	67605	WARW_T1	14	14	0	0.59	0.57	-0.02	-0.9	-0.89	0	0	0	0	0	0
6/12/2024 10:54	67603	WARW_T1	2	2	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
6/12/2024 10:55	56802	BENV_T2	73	17	-56	0.31	0.62	0.31	-1.12	-1.1	0	0	0	0	0	0
6/12/2024 10:55	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/12/2024 10:56	56802	BENV_T2	73	17	-56	0.31	0.62	0.31	-0.56	-0.55	0	0	0	0	0	0
6/12/2024 10:56	60101	COCA_T1	1	2	1	1.1	0.3	-0.8	0.43	0.52	0	0	0	0	0	0
6/12/2024 10:57	56802	BENV_T2	73	17	-56	0.31	0.62	0.31	-0.56	-0.55	0	0	0	0	0	0
6/12/2024 10:57	41801	GOCI_T2	20	35	15	0.29	0.31	0.02	0	0	0	0	0	0	0	0
6/12/2024 10:58	47001	HUGH_T2	0	1	1	0	0.1	0.1	-0.03	-0.01	0	0	0	0	0	0
6/12/2024 10:59	44601	SALE_T2	0	0	0	0	0	0	0	0	2	2	0	900	900	0
6/12/2024 10:59	59302	MCAL_T1	2	3	1	0.25	0.57	0.32	0	0	0	0	0	0	0	0
6/12/2024 10:59	47001	HUGH_T2	0	1	1	0	0.1	0.1	-0.03	-0.01	0	0	0	0	0	0
6/12/2024 10:59	59301	MCAL_T1	0	1	1	0	0.1	0.1	-0.91	-0.93	0	0	0	0	0	0
6/12/2024 11:00	41801	GOCI_T2	24	35	11	0.38	0.28	-0.1	0	0	0	0	0	0	0	0
6/12/2024 11:01	23202	HIRU_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 11:01	23203	HIRU_T2	0	1	1	0	0.2	0.2	0.01	0.07	0	0	0	0	0	0
6/12/2024 11:01	56802	BENV_T2	16	17	1	0.62	0.61	-0.01	-0.56	-0.55	0	0	0	0	0	0
6/12/2024 11:01	23201	HIRU_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
6/12/2024 11:02	58402	MORO_T1	0	0	0	0	0	0	-1.06	-1.05	3	3	0	2400	2400	0
6/12/2024 11:02	44601	SALE_T2	0	2	2	0	0	0	0	0	2	2	0	900	900	0
6/12/2024 11:04	66502	SMAN_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
6/12/2024 11:04	66505	SMAN_T2	0	0	0	0	0	0	1.79	2.05	4	6	2	2200	3400	1200
6/12/2024 11:05	56501	ROCK_T2	2	6	4	4.8	1.67	-3.13	0.12	0.13	0	0	0	0	0	0
6/12/2024 11:05	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 11:05	56504	ROCK_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/12/2024 11:06	66903	SHIL_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
6/12/2024 11:06	66902	SHIL_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
6/12/2024 11:06	66901	SHIL_T2	5	0	-5	0.12	0	-0.12	0.1	0.17	0	0	0	0	0	0
6/12/2024 11:07	67203	TEHI_T1	7	0	-7	0.36	0	-0.36	2.68	1.86	3	4	1	2100	3000	900
6/12/2024 11:07	67201	TEHI_T1	8	1	-7	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/12/2024 11:07	46005	BERW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/12/2024 11:07	46001	BERW_T1	0	0	0	0	0	0	-0.49	-0.26	0	0	0	0	0	0
6/12/2024 11:09	58006	WCAR_T2	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
6/12/2024 11:11	41502	FAIR_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
6/12/2024 11:11	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0.22	0.23	1	1	0	300	300	0
6/12/2024 11:15	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.01	0	0	0	0	0	0	0
6/12/2024 11:15	45702	LIND_T2	1	2	1	0.1	0.95	0.85	-0.36	-0.5	0	0	0	0	0	0
6/12/2024 11:16	42002	MNVL_T2	2	2	0	1.9	1.95	0.05	0	0	0	0	0	0	0	0
6/12/2024 11:16	41801	GOCI_T2	34	18	-16	0.29	0.37	0.08	0	0	0	0	0	0	0	0
6/12/2024 11:16	42001	MNVL_T2	6	9	3	0.45	0.39	-0.06	0.17	0.18	0	0	0	0	0	0
6/12/2024 11:16	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.01	0	0	0	0	0	0	0
6/12/2024 11:17	46506	LOHA_T1	2	2	0	0.5	0.3	-0.2	-0.32	-0.32	0	0	0	0	0	0
6/12/2024 11:17	46501	LOHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/12/2024 11:17	42001	MNVL_T2	6	9	3	0.45	0.39	-0.06	0	0	0	0	0	0	0	0
6/12/2024 11:17	42002	MNVL_T2	2	2	0	1.9	1.95	0.05	-0.08	-0.09	0	0	0	0	0	0
6/12/2024 11:17	46504	LOHA_T1	2	2	0	0.95	1.15	0.2	0	0	0	0	0	0	0	0
6/12/2024 11:17	46503	LOHA_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/12/2024 11:18	65603	QVIL_T2	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
6/12/2024 11:18	42002	MNVL_T2	2	2	0	1.9	1.95	0.05	0	0	0	0	0	0	0	0
6/12/2024 11:18	45702	LIND_T2	1	2	1	0.1	0.95	0.85	-0.36	-0.5	0	0	0	0	0	0
6/12/2024 11:18	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.01	0	0	0	0	0	0	0
6/12/2024 11:18	42001	MNVL_T2	6	9	3	0.45	0.39	-0.06	0.17	0.18	0	0	0	0	0	0
6/12/2024 11:18	58402	MORO_T1	0	0	0	0	0	0	-1.05	-1.04	3	3	0	2400	2400	0
6/12/2024 11:19	42002	MNVL_T2	2	2	0	1.9	1.95	0.05	0	0	0	0	0	0	0	0
6/12/2024 11:19	57303	MOAL_T2	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
6/12/2024 11:19	57304	MOAL_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/12/2024 11:19	42001	MNVL_T2	6	9	3	0.45	0.39	-0.06	0.17	0.18	0	0	0	0	0	0
6/12/2024 11:19	57302	MOAL_T2	0	0	0	0	0	0	-1.45	-1.44	1	1	0	1200	1200	0
6/12/2024 11:19	42902	MIDD_T2	5	4	-1	0.6	0.38	-0.22	0.62	0.53	0	0	0	0	0	0
6/12/2024 11:19	12801	MICK_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
6/12/2024 11:19	42903	MIDD_T2	2	2	0	0.8	1.05	0.25	0	0	0	0	0	0	0	0
6/12/2024 11:20	56501	ROCK_T2	1	5	4	0.2	0.36	0.16	0.27	0.3	0	0	0	0	0	0
6/12/2024 11:20	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/12/2024 11:20	48302	ORWI_T2	2	2	0	0.4	0.45	0.05	0.09	0.1	0	0	0	0	0	0
6/12/2024 11:20	56503	ROCK_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/12/2024 11:20	56504	ROCK_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/12/2024 11:21	64101	REFR_T1	1	0	-1	0.3	0	-0.3	-0.02	-0.01	0	0	0	0	0	0
6/12/2024 11:22	54203	PENN_T1	18	19	1	0.43	0.45	0.02	0	0	0	0	0	0	0	0
6/12/2024 11:22	64101	REFR_T1	1	0	-1	0.3	0	-0.3	-0.02	-0.01	0	0	0	0	0	0
6/12/2024 11:22	54201	PENN_T1	5	8	3	1.12	0.8	-0.32	-1.45	-1.04	0	0	0	0	0	0
6/12/2024 11:23	44301	BEAV_T2	1	2	1	2.4	1.1	-1.3	0.87	0.91	2	2	0	1500	1500	0
6/12/2024 11:23	44302	BEAV_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/12/2024 11:23	64101	REFR_T1	1	0	-1	0.3	0	-0.3	-0.02	-0.01	0	0	0	0	0	0
6/12/2024 11:24	64101	REFR_T1	1	0	-1	0.3	0	-0.3	-0.06	-0.03	0	0	0	0	0	0
6/12/2024 11:25	51101	CARL_T1	1	2	1	6.8	3.55	-3.25	-0.85	-0.92	1	1	0	600	600	0
6/12/2024 11:25	60902	DONG_T2	0	0	0	0	0	0	1.2	1.23	0	0	0	0	0	0
6/12/2024 11:25	60904	DONG_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/12/2024 11:25	60901	DONG_T2	4	3	-1	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
6/12/2024 11:25	64101	REFR_T1	1	0	-1	0.3	0	-0.3	-0.02	-0.01	0	0	0	0	0	0
6/12/2024 11:25	22003	BOHE_T1	2	3	1	0.85	0.77	-0.08	0	0	0	0	0	0	0	0
6/12/2024 11:25	27005	BELL_T1	1	1	0	0.1	0.1	0	-1.71	-1.7	0	0	0	0	0	0
6/12/2024 11:25	51102	CARL_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
6/12/2024 11:26	51107	CARL_T1	0	0	0	0	0	0	0.67	0.73	0	0	0	0	0	0
6/12/2024 11:26	60102	COCA_T1	0	1	1	0	0.3	0.3	-0.86	-0.86	3	3	0	2100	2100	0
6/12/2024 11:26	60101	COCA_T1	0	7	7	0	0.39	0.39	0	0	0	0	0	0	0	0
6/12/2024 11:26	51102	CARL_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
6/12/2024 11:26	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 11:26	54505	ENOL_T2	1	0	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/12/2024 11:26	51101	CARL_T1	1	2	1	6.8	3.55	-3.25	0	0	0	0	0	0	0	0
6/12/2024 11:26	54504	ENOL_T2	1	0	-1	0.8	0	-0.8	-1.89	-1.81	1	1	0	600	600	0
6/12/2024 11:28	63501	HEID_TBK1-2	3	5	2	0.23	0.24	0.01	0.32	0.31	1	1	0	900	900	0
6/12/2024 11:29	41501	FAIR_T2	0	0	0	0	0	0	-0.9	-0.89	1	1	0	600	600	0
6/12/2024 11:30	63501	HEID_TBK1-2	4	5	1	0.2	0.24	0.04	0.32	0.31	1	1	0	900	900	0
6/12/2024 11:31	65501	MOJO_T1	0	0	0	0	0	0	-0.58	-0.74	1	1	0	900	900	0
6/12/2024 11:31	40101	HUNT_T2	0	1	1	0	0	0	0	-0.04	0	0	0	0	0	0
6/12/2024 11:32	53903	HALI_T2	9	10	1	0.78	0.86	0.08	0	0	0	0	0	0	0	0
6/12/2024 11:32	53901	HALI_T2	2	2	0	0.3	0.5	0.2	-0.93	-0.92	0	0	0	0	0	0
6/12/2024 11:32	53902	HALI_T2	3	3	0	2.43	2.5	0.07	0	0	0	0	0	0	0	0
6/12/2024 11:34	14401	SSLA_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/12/2024 11:34	60504	NMAN_T2	2	3	1	0.65	0.77	0.12	0	0	0	0	0	0	0	0
6/12/2024 11:34	60501	NMAN_T2	3	4	1	3.83	3.33	-0.5	0	0	0	0	0	0	0	0
6/12/2024 11:34	14402	SSLA_T1	3	3	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/12/2024 11:34	14403	SSLA_T1	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
6/12/2024 11:34	60502	NMAN_T2	1	0	-1	0.2	0	-0.2	0.13	0.08	0	0	0	0	0	0
6/12/2024 11:34	14404	SSLA_T1	1	2	1	5.8	3.15	-2.65	0.07	0.07	0	0	0	0	0	0
6/12/2024 11:35	14403	SSLA_T1	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
6/12/2024 11:35	14404	SSLA_T1	1	2	1	5.8	3.15	-2.65	0	0	0	0	0	0	0	0
6/12/2024 11:35	14401	SSLA_T1	0	2	2	0	0.35	0.35	-0.25	-0.29	0	0	0	0	0	0
6/12/2024 11:35	14402	SSLA_T1	3	3	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/12/2024 11:36	66703	STRA_T1	0	0	0	0	0	0	0.36	0.3	0	0	0	0	0	0
6/12/2024 11:36	66701	STRA_T1	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
6/12/2024 11:36	57403	SPAN_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/12/2024 11:36	57401	SPAN_T1	2	3	1	0.7	0.93	0.23	-0.86	-0.84	1	1	0	600	600	0
6/12/2024 11:37	60801	BUCK_T1	3	3	0	0.27	0.5	0.23	-0.45	-0.47	1	1	0	600	600	0
6/12/2024 11:37	60803	BUCK_T1	13	13	0	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
6/12/2024 11:37	43802	SWIL_T1	2	1	-1	0.15	0.3	0.15	-0.02	-0.01	1	1	0	600	600	0
6/12/2024 11:37	44302	BEAV_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/12/2024 11:37	43801	SWIL_T1	11	2	-9	0.54	2.45	1.91	0	0	0	0	0	0	0	0
6/12/2024 11:37	44301	BEAV_T2	2	10	8	1.25	0.33	-0.92	0.91	0.76	2	2	0	1500	1500	0
6/12/2024 11:38	43802	SWIL_T1	2	1	-1	0.15	0.3	0.15	-0.02	-0.01	1	1	0	600	600	0
6/12/2024 11:38	67502	WEWI_T2	2	1	-1	0.55	0.8	0.25	-0.06	-0.08	0	0	0	0	0	0
6/12/2024 11:38	43801	SWIL_T1	11	2	-9	0.54	2.45	1.91	0	0	0	0	0	0	0	0
6/12/2024 11:39	60803	BUCK_T1	13	13	0	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
6/12/2024 11:39	14404	SSLA_T1	1	2	1	5.8	3.15	-2.65	0.07	0.08	0	0	0	0	0	0
6/12/2024 11:39	14401	SSLA_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/12/2024 11:39	51102	CARL_T1	4	3	-1	0.33	0.37	0.04	0	0	0	0	0	0	0	0
6/12/2024 11:39	60801	BUCK_T1	3	3	0	0.27	0.5	0.23	-0.91	-0.95	2	2	0	1200	1200	0
6/12/2024 11:39	51101	CARL_T1	1	2	1	7	3.55	-3.45	-0.92	-0.87	1	1	0	600	600	0
6/12/2024 11:39	14402	SSLA_T1	3	3	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/12/2024 11:39	44301	BEAV_T2	2	10	8	1.25	0.33	-0.92	0.91	0.76	2	2	0	1500	1500	0
6/12/2024 11:39	14403	SSLA_T1	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
6/12/2024 11:39	55101	WERT_T1	0	0	0	0	0	0	-2.91	-2.97	6	6	0	4800	4800	0
6/12/2024 11:39	55103	WERT_T1	0	1	1	0	4.2	4.2	0	0	0	0	0	0	0	0
6/12/2024 11:39	44302	BEAV_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/12/2024 11:40	44302	BEAV_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/12/2024 11:40	54505	ENOL_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/12/2024 11:40	54504	ENOL_T2	0	0	0	0	0	0	-1.81	-1.84	1	1	0	600	600	0
6/12/2024 11:40	60801	BUCK_T1	3	3	0	0.27	0.5	0.23	-0.45	-0.47	1	1	0	600	600	0
6/12/2024 11:40	10801	CHHI_T1	0	6	6	0	0.7	0.7	-0.91	-0.92	2	2	0	1500	1500	0
6/12/2024 11:40	60803	BUCK_T1	13	13	0	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
6/12/2024 11:40	44301	BEAV_T2	2	10	8	1.25	0.33	-0.92	1.83	1.53	4	4	0	3000	3000	0
6/12/2024 11:41	67502	WEWI_T2	2	1	-1	0.55	0.8	0.25	-0.12	-0.17	0	0	0	0	0	0
6/12/2024 11:41	10801	CHHI_T1	0	6	6	0	0.7	0.7	-0.91	-0.92	2	2	0	1500	1500	0
6/12/2024 11:41	67605	WARW_T1	10	14	4	0.36	0.49	0.13	-1.75	-1.73	0	0	0	0	0	0
6/12/2024 11:41	67603	WARW_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
6/12/2024 11:42	20401	ASHF_T2	3	2	-1	0.2	0.4	0.2	0.03	-0.05	0	0	0	0	0	0
6/12/2024 11:42	63304	GREE_T1	0	0	0	0	0	0	-1.39	-1.36	0	0	0	0	0	0
6/12/2024 11:42	63501	HEID_TBK1-2	4	5	1	0.2	0.24	0.04	0.31	0.28	1	1	0	900	900	0
6/12/2024 11:42	20403	ASHF_T2	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/12/2024 11:43	46803	HEPB_T2	11	11	0	0.53	0.55	0.02	0	0	0	0	0	0	0	0
6/12/2024 11:43	61002	DONV_T2	0	0	0	0	0	0	-0.58	-0.6	2	2	0	1200	1200	0
6/12/2024 11:43	46801	HEPB_T2	3	4	1	0.97	0.8	-0.17	0.83	0.83	0	0	0	0	0	0
6/12/2024 11:43	46802	HEPB_T1	6	5	-1	0.58	0.56	-0.02	-0.17	-0.16	0	0	0	0	0	0
6/12/2024 11:44	46803	HEPB_T2	11	11	0	0.53	0.55	0.02	0	0	0	0	0	0	0	0
6/12/2024 11:44	46801	HEPB_T2	3	4	1	0.97	0.8	-0.17	0.83	0.83	0	0	0	0	0	0
6/12/2024 11:45	61702	ELIZ_T2	0	1	1	0	0.2	0.2	-1.85	-1.83	2	2	0	1500	1500	0
6/12/2024 11:46	46801	HEPB_T2	4	3	-1	0.8	1	0.2	0	0	0	0	0	0	0	0
6/12/2024 11:46	58402	MORO_T1	0	0	0	0	0	0	-2.07	-2.06	6	6	0	4800	4800	0
6/12/2024 11:46	46803	HEPB_T2	11	8	-3	0.55	0.59	0.04	0.58	0.57	0	0	0	0	0	0
6/12/2024 11:47	41205	KENM_T2	0	0	0	0	0	0	-0.66	-0.66	1	1	0	600	600	0
6/12/2024 11:48	58402	MORO_T1	0	0	0	0	0	0	-1.04	-1.03	3	3	0	2400	2400	0
6/12/2024 11:48	65501	MOJO_T1	0	0	0	0	0	0	-0.74	-0.64	1	1	0	900	900	0
6/12/2024 11:49	46801	HEPB_T2	4	3	-1	0.8	1	0.2	0	0	0	0	0	0	0	0
6/12/2024 11:49	44703	MUNC_T2	0	0	0	0	0	0	1.01	0.99	0	0	0	0	0	0
6/12/2024 11:49	46803	HEPB_T2	11	8	-3	0.55	0.59	0.04	0.58	0.57	0	0	0	0	0	0
6/12/2024 11:51	67303	WYOM_T2	1	1	0	0.2	0.2	0	-0.77	-0.73	0	0	0	0	0	0
6/12/2024 11:51	54601	SUMM_T2	2	1	-1	0.2	0.1	-0.1	-1.64	-1.61	2	2	0	2100	2100	0
6/12/2024 11:51	41902	REED_T1	0	0	0	0	0	0	2.62	2.44	0	0	0	0	0	0
6/12/2024 11:52	57404	SPAN_T2	0	0	0	0	0	0	-0.04	0.01	1	1	0	1200	1200	0
6/12/2024 11:52	57402	SPAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/12/2024 11:53	57003	WHHI_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/12/2024 11:53	60102	COCA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 11:53	57002	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 11:53	60101	COCA_T1	7	5	-2	0.39	0.22	-0.17	0.51	0.52	0	0	0	0	0	0
6/12/2024 11:53	57006	WHHI_T2	3	1	-2	0.7	1	0.3	-0.45	-0.1	0	0	0	0	0	0
6/12/2024 11:54	42201	SHEN_T2	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
6/12/2024 11:54	60101	COCA_T1	7	5	-2	0.39	0.22	-0.17	0	0	0	0	0	0	0	0
6/12/2024 11:54	60102	COCA_T1	0	1	1	0	0.1	0.1	-0.77	-0.81	3	3	0	2100	2100	0
6/12/2024 11:55	60101	COCA_T1	7	5	-2	0.39	0.22	-0.17	0.51	0.52	0	0	0	0	0	0
6/12/2024 11:55	42801	SELI_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/12/2024 11:55	60102	COCA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 11:55	42802	SELI_T1	1	0	-1	0.1	0	-0.1	-0.5	-0.47	1	1	0	900	900	0
6/12/2024 11:56	60102	COCA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 11:56	60103	COCA_T2	0	0	0	0	0	0	-1.51	-1.5	3	3	0	3300	3300	0
6/12/2024 11:56	60101	COCA_T1	7	5	-2	0.39	0.22	-0.17	0.51	0.52	0	0	0	0	0	0
6/12/2024 11:57	53501	EVIL_T2	5	6	1	0.94	0.68	-0.26	0	-0.06	2	2	0	1200	1200	0
6/12/2024 11:57	41801	GOCI_T2	6	49	43	0.67	0.27	-0.4	0	0	0	0	0	0	0	0
6/12/2024 11:58	40101	HUNT_T2	0	1	1	0	0	0	-0.07	-0.08	0	0	0	0	0	0
6/12/2024 11:58	63401	HONY_T1	0	0	0	0	0	0	0.95	0.96	0	0	0	0	0	0
6/12/2024 12:00	46005	BERW_T1	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
6/12/2024 12:00	52004	LING_T2	2	3	1	0.95	1.13	0.18	0.39	0.4	0	0	0	0	0	0
6/12/2024 12:00	46001	BERW_T1	0	0	0	0	0	0	-0.3	-0.64	0	0	0	0	0	0
6/12/2024 12:01	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.07	-0.08	0	0	0	0	0	0
6/12/2024 12:02	57003	WHHI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/12/2024 12:02	57002	WHIII_T2	1	0	-1	3.6	0	-3.6	0	0	0	0	0	0	0	0
6/12/2024 12:02	45801	HEGI_T1	0	0	0	0	0	0	0.16	0.13	1	1	0	900	900	0
6/12/2024 12:02	47001	HUGH_T2	1	1	0	0.2	0.4	0.2	0.03	0.03	0	0	0	0	0	0
6/12/2024 12:02	57006	WHIII_T2	1	2	1	1	0.2	-0.8	-0.45	-0.1	0	0	0	0	0	0
6/12/2024 12:03	51002	NHAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 12:03	51004	NHAR_T1	2	4	2	3.4	1.85	-1.55	-0.43	-0.41	0	0	0	0	0	0
6/12/2024 12:04	42201	SHEN_T2	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
6/12/2024 12:05	14603	SWHI_T1	0	0	0	0	0	0	-0.86	-0.85	1	1	0	600	600	0
6/12/2024 12:06	59201	THOM_T1	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
6/12/2024 12:06	57401	SPAN_T1	2	2	0	2.35	0.85	-1.5	0	0	0	0	0	0	0	0
6/12/2024 12:06	57403	SPAN_T1	1	1	0	0.3	0.5	0.2	0.1	0.11	0	0	0	0	0	0
6/12/2024 12:06	64101	REFR_T1	1	1	0	0.2	0.2	0	0.01	0.03	0	0	0	0	0	0
6/12/2024 12:06	59202	THOM_T1	19	29	10	0.51	0.41	-0.1	0	0	0	0	0	0	0	0
6/12/2024 12:07	51101	CARL_T1	1	1	0	7.2	7	-0.2	0	0	0	0	0	0	0	0
6/12/2024 12:07	67505	WEWI_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/12/2024 12:07	42201	SHEN_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
6/12/2024 12:07	51102	CARL_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/12/2024 12:07	51108	CARL_T1	0	1	1	0	0.1	0.1	-0.7	-0.73	1	1	0	600	600	0
6/12/2024 12:07	67501	WEWI_T1	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
6/12/2024 12:07	55103	WERT_T1	1	1	0	4.4	4	-0.4	0	0	0	0	0	0	0	0
6/12/2024 12:07	67504	WEWI_T1	0	0	0	0	0	0	0.63	0.74	0	0	0	0	0	0
6/12/2024 12:07	55105	WERT_T1	0	0	0	0	0	0	-0.33	-0.27	1	1	0	900	900	0
6/12/2024 12:08	60301	TWVA_T2	0	0	0	0	0	0	-1.7	-1.71	2	2	0	1500	1500	0
6/12/2024 12:08	59202	THOM_T1	19	29	10	0.51	0.41	-0.1	0	0	0	0	0	0	0	0
6/12/2024 12:08	64101	REFR_T1	1	1	0	0.2	0.2	0	0.02	0.05	0	0	0	0	0	0
6/12/2024 12:08	67503	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 12:08	13606	RICH_T2	1	1	0	7.9	7.6	-0.3	1.33	1.28	0	0	0	0	0	0
6/12/2024 12:08	59201	THOM_T1	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
6/12/2024 12:08	67502	WEWI_T2	1	10	9	0.3	0.48	0.18	-0.09	-1.07	0	0	0	0	0	0
6/12/2024 12:09	14403	SSLA_T1	3	3	0	0.43	0.3	-0.13	0.93	0.93	0	0	0	0	0	0
6/12/2024 12:09	59202	THOM_T1	19	29	10	0.51	0.41	-0.1	0	0	0	0	0	0	0	0
6/12/2024 12:09	59201	THOM_T1	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
6/12/2024 12:09	14402	SSLA_T1	2	6	4	0.25	0.55	0.3	0	0	0	0	0	0	0	0
6/12/2024 12:09	67501	WEWI_T1	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
6/12/2024 12:09	67505	WEWI_T1	1	1	0	0.3	0.2	-0.1	0.37	0.23	2	2	0	1800	1800	0
6/12/2024 12:09	14404	SSLA_T1	1	3	2	5.5	2.1	-3.4	0	0	0	0	0	0	0	0
6/12/2024 12:09	14401	SSLA_T1	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
6/12/2024 12:10	64101	REFR_T1	1	1	0	0.2	0.2	0	0.01	0.02	0	0	0	0	0	0
6/12/2024 12:11	67505	WEWI_T1	1	1	0	0.3	0.2	-0.1	0.19	0.11	1	1	0	900	900	0
6/12/2024 12:11	45501	DERR_T2	1	1	0	0.2	0.2	0	0.97	0.94	2	2	0	1800	1800	0
6/12/2024 12:11	67501	WEWI_T1	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
6/12/2024 12:11	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 12:11	60102	COCA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 12:11	60801	BUCK_T1	3	30	27	0.43	0.23	-0.2	-0.65	-0.66	1	1	0	600	600	0
6/12/2024 12:11	60101	COCA_T1	4	2	-2	0.15	0.3	0.15	0.52	0.52	0	0	0	0	0	0
6/12/2024 12:11	60803	BUCK_T1	9	14	5	0.27	0.32	0.05	0	0	0	0	0	0	0	0
6/12/2024 12:11	16103	BING_T2	1	0	-1	0.3	0	-0.3	-0.65	-0.64	2	2	0	1500	1500	0
6/12/2024 12:12	60102	COCA_T1	1	0	-1	0.1	0	-0.1	-0.81	-0.7	3	3	0	2100	2100	0
6/12/2024 12:12	60101	COCA_T1	4	2	-2	0.15	0.3	0.15	0	0	0	0	0	0	0	0
6/12/2024 12:13	41801	GOCI_T2	26	46	20	0.28	0.28	0	0	0	0	0	0	0	0	0
6/12/2024 12:13	26402	INOR_T1	0	0	0	0	0	0	-0.83	-0.83	1	1	0	600	600	0
6/12/2024 12:13	26401	INOR_T1	1	3	2	8	3.43	-4.57	0	0	0	0	0	0	0	0
6/12/2024 12:15	23901	EFMO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 12:15	41204	KENM_T2	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
6/12/2024 12:16	42902	MIDD_T2	2	3	1	0.5	0.97	0.47	-0.51	-0.9	3	3	0	1800	1800	0
6/12/2024 12:16	42903	MIDD_T2	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
6/12/2024 12:16	42901	MIDD_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 12:17	47802	MOCA_T2	1	1	0	0.8	0.5	-0.3	-0.72	-0.77	0	0	0	0	0	0
6/12/2024 12:17	46004	BERW_T2	0	0	0	0	0	0	0.3	0.33	0	0	0	0	0	0
6/12/2024 12:19	66504	SMAN_T2	0	2	2	0	0.9	0.9	0.22	-2.28	0	2	2	0	2400	2400
6/12/2024 12:19	16401	MOPO_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
6/12/2024 12:19	66502	SMAN_T2	0	7	7	0	0.43	0.43	0	0	0	0	0	0	0	0
6/12/2024 12:19	66501	SMAN_T2	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
6/12/2024 12:20	66501	SMAN_T2	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
6/12/2024 12:20	64101	REFR_T1	1	1	0	0.2	0.2	0	0.01	0.02	0	0	0	0	0	0
6/12/2024 12:20	66502	SMAN_T2	0	7	7	0	0.43	0.43	0	0	0	0	0	0	0	0
6/12/2024 12:20	66504	SMAN_T2	0	2	2	0	0.9	0.9	0.11	-1.14	0	1	1	0	1200	1200
6/12/2024 12:21	64101	REFR_T1	1	1	0	0.2	0.2	0	0.03	0.16	0	0	0	0	0	0
6/12/2024 12:21	66503	SMAN_T2	0	0	0	0	0	0	0.77	0.74	0	0	0	0	0	0
6/12/2024 12:21	66501	SMAN_T2	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
6/12/2024 12:21	66502	SMAN_T2	0	7	7	0	0.43	0.43	0	0	0	0	0	0	0	0
6/12/2024 12:21	66504	SMAN_T2	0	2	2	0	0.9	0.9	-1.14	0.15	0	1	1	0	1200	1200
6/12/2024 12:22	64101	REFR_T1	1	1	0	0.2	0.2	0	0.02	0.08	0	0	0	0	0	0
6/12/2024 12:22	45402	WBLO_T2	2	2	0	0.3	0.3	0	-0.5	-0.5	0	0	0	0	0	0
6/12/2024 12:23	66502	SMAN_T2	0	7	7	0	0.43	0.43	0	0	0	0	0	0	0	0
6/12/2024 12:23	66501	SMAN_T2	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
6/12/2024 12:23	64101	REFR_T1	1	1	0	0.2	0.2	0	0.03	0.16	0	0	0	0	0	0
6/12/2024 12:23	45402	WBLO_T2	2	2	0	0.3	0.3	0	-0.5	-0.5	0	0	0	0	0	0
6/12/2024 12:23	67602	WARW_T2	0	0	0	0	0	0	1.51	-0.11	1	2	1	300	1500	1200
6/12/2024 12:23	57006	WHIII_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
6/12/2024 12:23	66504	SMAN_T2	0	2	2	0	0.9	0.9	-1.14	0.15	1	0	-1	1200	0	-1200
6/12/2024 12:23	57004	WHIII_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
6/12/2024 12:23	65901	SAKR_T2	1	1	0	7.5	7.4	-0.1	-0.9	-0.82	2	2	0	1500	1500	0
6/12/2024 12:23	57003	WHIII_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/12/2024 12:24	29401	BELT_T1	6	5	-1	0.28	0.26	-0.02	0	0	1	1	0	900	900	0
6/12/2024 12:24	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 12:24	29402	BELT_T1	2	3	1	4.2	2.9	-1.3	0	0	0	0	0	0	0	0
6/12/2024 12:24	64101	REFR_T1	1	1	0	0.2	0.2	0	0.02	0.08	0	0	0	0	0	0
6/12/2024 12:24	27205	YATE_T1	1	3	2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/12/2024 12:24	27201	YATE_T1	0	0	0	0	0	0	-1.61	-1.57	0	0	0	0	0	0
6/12/2024 12:24	10203	ALLE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 12:24	10102	ALLE_T2	1	1	0	7.4	7.3	-0.1	0	0	0	0	0	0	0	0
6/12/2024 12:25	64101	REFR_T1	1	1	0	0.2	0.2	0	0.02	0.08	0	0	0	0	0	0
6/12/2024 12:25	66501	SMAN_T2	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
6/12/2024 12:25	66502	SMAN_T2	0	7	7	0	0.43	0.43	0	0	0	0	0	0	0	0
6/12/2024 12:25	67602	WARW_T2	0	0	0	0	0	0	1.51	-0.11	1	2	1	300	1500	1200
6/12/2024 12:25	66504	SMAN_T2	0	2	2	0	0.9	0.9	-1.14	0.15	1	0	-1	1200	0	-1200
6/12/2024 12:26	61502	EPET_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 12:26	61505	EPET_T1	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
6/12/2024 12:26	66502	SMAN_T2	0	7	7	0	0.43	0.43	0	0	0	0	0	0	0	0
6/12/2024 12:26	66501	SMAN_T2	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
6/12/2024 12:26	66504	SMAN_T2	0	2	2	0	0.9	0.9	-1.14	0.15	1	0	-1	1200	0	-1200
6/12/2024 12:27	24101	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 12:27	10903	COOP_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/12/2024 12:27	67605	WARW_T1	3	3	0	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
6/12/2024 12:27	10901	COOP_T2	0	1	1	0	0.4	0.4	0.08	0.02	1	1	0	1200	1200	0
6/12/2024 12:27	52402	GRPA_T2	10	70	60	0.41	0.35	-0.06	0	0	0	0	0	0	0	0
6/12/2024 12:27	67602	WARW_T2	0	0	0	0	0	0	1.51	-0.11	1	2	1	300	1500	1200
6/12/2024 12:27	52403	GRPA_T2	0	6	6	0	0.5	0.5	0.27	0.28	0	0	0	0	0	0
6/12/2024 12:27	24104	EHAZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/12/2024 12:27	16103	BING_T2	0	0	0	0	0	0	-0.64	-0.63	2	2	0	1500	1500	0
6/12/2024 12:27	24105	EHAZ_T1	4	4	0	6.23	6.25	0.02	0	0	0	0	0	0	0	0
6/12/2024 12:27	24102	EHAZ_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/12/2024 12:27	67604	WARW_T1	0	0	0	0	0	0	0.23	0.13	0	0	0	0	0	0
6/12/2024 12:27	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 12:27	24103	EHAZ_T1	0	0	0	0	0	0	-1.3	-1.27	0	0	0	0	0	0
6/12/2024 12:27	53501	EVIL_T2	5	3	-2	0.68	0.5	-0.18	-0.07	0.11	2	2	0	1200	1200	0
6/12/2024 12:29	63202	MGTN_T2	0	0	0	0	0	0	0.21	0.51	1	1	0	900	900	0
6/12/2024 12:29	64702	LITI_T2	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
6/12/2024 12:30	42102	FRAI_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/12/2024 12:30	52402	GRPA_T2	70	16	-54	0.34	0.28	-0.06	-0.86	-0.75	0	0	0	0	0	0
6/12/2024 12:30	67602	WARW_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 12:30	52403	GRPA_T2	4	7	3	0.35	0.5	0.15	0	0	0	0	0	0	0	0
6/12/2024 12:30	67601	WARW_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
6/12/2024 12:31	13502	MCMI_T1	2	2	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
6/12/2024 12:31	13501	MCMI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 12:31	52403	GRPA_T2	4	7	3	0.35	0.5	0.15	0.27	0.28	0	0	0	0	0	0
6/12/2024 12:31	52402	GRPA_T2	70	16	-54	0.34	0.28	-0.06	-0.86	-0.75	0	0	0	0	0	0
6/12/2024 12:33	65601	QVIL_T2	0	0	0	0	0	0	-0.69	-0.73	1	1	0	900	900	0
6/12/2024 12:33	52004	LING_T2	3	5	2	1.13	0.54	-0.59	1.21	1.23	0	0	0	0	0	0
6/12/2024 12:33	13503	MCMI_T2	5	21	16	0.3	0.47	0.17	-0.01	-0.01	0	0	0	0	0	0
6/12/2024 12:34	42903	MIDD_T2	2	0	-2	1.05	0	-1.05	0	0	0	0	0	0	0	0
6/12/2024 12:34	13606	RICH_T2	1	1	0	7.6	7.6	0	1.28	1.27	0	0	0	0	0	0
6/12/2024 12:34	42902	MIDD_T2	3	0	-3	0.97	0	-0.97	-0.3	-0.28	1	1	0	600	600	0
6/12/2024 12:34	13503	MCMI_T2	5	21	16	0.3	0.47	0.17	-0.01	-0.01	0	0	0	0	0	0
6/12/2024 12:35	13503	MCMI_T2	5	21	16	0.3	0.47	0.17	-0.01	-0.01	0	0	0	0	0	0
6/12/2024 12:36	65004	NEFF_T2	4	2	-2	0.25	0.5	0.25	0	0	0	0	0	0	0	0
6/12/2024 12:36	14802	TREI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/12/2024 12:36	14801	TREI_T2	3	4	1	0.73	0.5	-0.23	0.73	0.74	0	0	0	0	0	0
6/12/2024 12:36	52004	LING_T2	3	5	2	1.13	0.54	-0.59	0.4	0.41	0	0	0	0	0	0
6/12/2024 12:36	65001	NEFF_T2	0	0	0	0	0	0	0.08	0.1	1	1	0	1200	1200	0
6/12/2024 12:36	65005	NEFF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/12/2024 12:36	65003	NEFF_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
6/12/2024 12:36	67803	WLAN_T1	1	2	1	0.2	0.4	0.2	-0.67	-0.66	0	0	0	0	0	0
6/12/2024 12:36	67804	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 12:37	67803	WLAN_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/12/2024 12:37	24602	VARD_T2	32	403	371	0.23	0.41	0.18	0	0	0	0	0	0	0	0
6/12/2024 12:37	24603	VARD_T2	3	1	-2	0.4	0.3	-0.1	-0.06	-0.06	0	0	0	0	0	0
6/12/2024 12:37	67804	WLAN_T1	0	1	1	0	0.1	0.1	-0.81	-0.8	0	0	0	0	0	0
6/12/2024 12:38	67503	WEWI_T2	1	2	1	0.2	0.3	0.1	0.07	0.09	0	0	0	0	0	0
6/12/2024 12:38	67502	WEWI_T2	10	28	18	0.48	0.36	-0.12	-2.19	-1.87	2	2	0	1800	1800	0
6/12/2024 12:39	67503	WEWI_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/12/2024 12:39	67502	WEWI_T2	10	28	18	0.48	0.36	-0.12	-1.1	-0.94	1	1	0	900	900	0
6/12/2024 12:39	46206	DANV_T2	2	5	3	0.7	1.6	0.9	3.04	3.05	1	1	0	1200	1200	0
6/12/2024 12:40	67503	WEWI_T2	1	2	1	0.2	0.3	0.1	0.07	0.09	0	0	0	0	0	0
6/12/2024 12:40	67502	WEWI_T2	10	28	18	0.48	0.36	-0.12	0	0	0	0	0	0	0	0
6/12/2024 12:40	60101	COCA_T1	0	3	3	0	0.37	0.37	0.53	0.54	0	0	0	0	0	0
6/12/2024 12:40	44302	BEAV_T2	2	0	-2	0.75	0	-0.75	0	0	0	0	0	0	0	0
6/12/2024 12:40	22003	BOHE_T1	3	3	0	1.3	0.77	-0.53	0	0	0	0	0	0	0	0
6/12/2024 12:40	44301	BEAV_T2	2	1	-1	0.35	0	-0.35	0.16	0.81	2	2	0	1500	1500	0
6/12/2024 12:40	22001	BOHE_T1	2	0	-2	0.2	0	-0.2	0.27	0.27	0	0	0	0	0	0
6/12/2024 12:41	67503	WEWI_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/12/2024 12:41	67502	WEWI_T2	10	28	18	0.48	0.36	-0.12	-2.19	-1.87	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/12/2024 12:41	44301	BEAV_T2	2	1	-1	0.35	0	-0.35	0.16	0.81	2	2	0	1500	1500	0
6/12/2024 12:41	53501	EVIL_T2	3	1	-2	0.5	0.3	-0.2	0.11	0.05	2	2	0	1200	1200	0
6/12/2024 12:41	44302	BEAV_T2	2	0	-2	0.75	0	-0.75	0	0	0	0	0	0	0	0
6/12/2024 12:42	63501	HEID_TBK1-2	29	33	4	0.31	0.34	0.03	0.39	0.41	1	1	0	900	900	0
6/12/2024 12:42	46206	DANV_T2	2	5	3	0.7	1.6	0.9	3.04	3.05	1	1	0	1200	1200	0
6/12/2024 12:43	40101	HUNT_T2	0	4	4	0	0.4	0.4	-0.03	0	0	0	0	0	0	0
6/12/2024 12:44	40101	HUNT_T2	0	4	4	0	0.4	0.4	-0.03	0	0	0	0	0	0	0
6/12/2024 12:44	53501	EVIL_T2	3	1	-2	0.5	0.3	-0.2	0.11	0.05	2	2	0	1200	1200	0
6/12/2024 12:44	62607	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 12:44	62601	ENGL_T1	0	0	0	0	0	0	-0.97	-0.72	0	0	0	0	0	0
6/12/2024 12:45	40101	HUNT_T2	2	5	3	0.3	0.4	0.1	-0.03	0	0	0	0	0	0	0
6/12/2024 12:45	53502	EVIL_T2	0	0	0	0	0	0	-0.08	0.17	2	2	0	1200	1200	0
6/12/2024 12:45	53501	EVIL_T2	1	1	0	0.3	0.2	-0.1	0.21	0.09	4	4	0	2400	2400	0
6/12/2024 12:45	42903	MIDD_T2	0	0	0	0	0	0	2.08	1.9	0	0	0	0	0	0
6/12/2024 12:46	46504	LOHA_T1	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
6/12/2024 12:46	46503	LOHA_T1	0	0	0	0	0	0	-1.19	-1.19	0	0	0	0	0	0
6/12/2024 12:48	58202	NEWV_T1	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
6/12/2024 12:49	50501	MECH_T1	4	4	0	0.28	0.45	0.17	0.53	0.77	0	0	0	0	0	0
6/12/2024 12:49	40602	PIGR_T1	1	1	0	0.2	0.2	0	0	0	1	1	0	600	600	0
6/12/2024 12:49	50506	MECH_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
6/12/2024 12:49	14802	TREI_T2	1	0	-1	0.4	0	-0.4	0.72	0.73	0	0	0	0	0	0
6/12/2024 12:49	14801	TREI_T2	3	3	0	0.57	0.67	0.1	0	0	0	0	0	0	0	0
6/12/2024 12:49	50505	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 12:49	50502	MECH_T1	1	1	0	1.3	1.8	0.5	0	0	0	0	0	0	0	0
6/12/2024 12:49	42903	MIDD_T2	0	0	0	0	0	0	2.08	1.9	0	0	0	0	0	0
6/12/2024 12:49	40603	PIGR_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
6/12/2024 12:49	40601	PIGR_T1	15	13	-2	0.37	0.45	0.08	0	0	0	0	0	0	0	0
6/12/2024 12:50	49803	UNIV_T1	0	1	1	0	0.2	0.2	-0.7	-0.64	0	0	0	0	0	0
6/12/2024 12:51	60504	NMAN_T2	4	3	-1	1.03	0.9	-0.13	0	0	0	0	0	0	0	0
6/12/2024 12:51	14404	SSLA_T1	3	1	-2	2.1	5.7	3.6	0	0	0	0	0	0	0	0
6/12/2024 12:51	14403	SSLA_T1	2	1	-1	0.25	0.3	0.05	1.02	1.04	0	0	0	0	0	0
6/12/2024 12:51	14402	SSLA_T1	3	6	3	0.33	0.53	0.2	0	0	0	0	0	0	0	0
6/12/2024 12:51	60501	NMAN_T2	5	3	-2	3.48	5.2	1.72	0	0	0	0	0	0	0	0
6/12/2024 12:51	14401	SSLA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/12/2024 12:51	60502	NMAN_T2	2	2	0	0.45	0.25	-0.2	0.23	0.22	0	0	0	0	0	0
6/12/2024 12:52	12802	MICK_T1	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
6/12/2024 12:52	54602	SUMM_T2	0	0	0	0	0	0	-2.21	-2.16	1	1	0	600	600	0
6/12/2024 12:52	65604	QVIL_T2	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
6/12/2024 12:52	12807	MICK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 12:52	12803	MICK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 12:54	24801	VALM_T1	1	2	1	0.1	0.55	0.45	-0.23	-0.22	0	0	0	0	0	0
6/12/2024 12:54	56801	BENV_T1	15	12	-3	0.83	0.8	-0.03	0.05	0.05	1	1	0	600	600	0
6/12/2024 12:54	56803	BENV_T1	3	4	1	0.93	0.6	-0.33	0	0	0	0	0	0	0	0
6/12/2024 12:55	12807	MICK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 12:55	12802	MICK_T1	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
6/12/2024 12:55	56803	BENV_T1	3	4	1	0.93	0.6	-0.33	-0.06	-0.06	0	0	0	0	0	0
6/12/2024 12:55	56801	BENV_T1	15	12	-3	0.83	0.8	-0.03	0.05	0.05	1	1	0	600	600	0
6/12/2024 12:55	12803	MICK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 12:56	57006	WHHI_T2	2	2	0	0.15	0.6	0.45	0	0	0	0	0	0	0	0
6/12/2024 12:56	56803	BENV_T1	3	4	1	0.93	0.6	-0.33	0	0	0	0	0	0	0	0
6/12/2024 12:56	57003	WHHI_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
6/12/2024 12:56	56801	BENV_T1	15	12	-3	0.83	0.8	-0.03	0.05	0.05	1	1	0	600	600	0
6/12/2024 12:56	57002	WHHI_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
6/12/2024 12:57	56801	BENV_T1	15	12	-3	0.83	0.8	-0.03	0.14	0.15	3	3	0	1800	1800	0
6/12/2024 12:57	45502	DERR_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/12/2024 12:57	45501	DERR_T2	1	1	0	0.8	0.8	0	1.04	1.06	2	2	0	1800	1800	0
6/12/2024 12:57	56803	BENV_T1	3	4	1	0.93	0.6	-0.33	0	0	0	0	0	0	0	0
6/12/2024 12:58	41801	GOCI_T2	4	7	3	0.43	0.31	-0.12	0	0	0	0	0	0	0	0
6/12/2024 12:59	56801	BENV_T1	15	12	-3	0.83	0.8	-0.03	0.05	0.05	1	1	0	600	600	0
6/12/2024 12:59	23201	HIRU_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/12/2024 12:59	23203	HIRU_T2	2	2	0	0.2	0.45	0.25	0.06	0.15	0	0	0	0	0	0
6/12/2024 12:59	23202	HIRU_T2	2	5	3	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
6/12/2024 12:59	56803	BENV_T1	3	4	1	0.93	0.6	-0.33	0	0	0	0	0	0	0	0
6/12/2024 13:00	41801	GOCI_T2	7	8	1	0.31	0.39	0.08	0	0	0	0	0	0	0	0
6/12/2024 13:00	40101	HUNT_T2	3	5	2	0.23	0.5	0.27	0	-0.02	0	0	0	0	0	0
6/12/2024 13:01	55002	NEWP_T1	11	13	2	0.72	0.82	0.1	-0.16	-0.15	0	0	0	0	0	0
6/12/2024 13:01	13503	MCMI_T2	20	13	-7	0.48	0.64	0.16	-0.01	-0.01	0	0	0	0	0	0
6/12/2024 13:01	55001	NEWP_T1	1	2	1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/12/2024 13:02	42903	MIDD_T2	0	0	0	0	0	0	1.9	1.73	0	0	0	0	0	0
6/12/2024 13:03	55001	NEWP_T1	1	2	1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/12/2024 13:03	25503	MADI_T1	8	7	-1	0.29	0.33	0.04	-0.85	-0.85	0	0	0	0	0	0
6/12/2024 13:03	55002	NEWP_T1	11	13	2	0.72	0.82	0.1	-0.16	-0.15	0	0	0	0	0	0
6/12/2024 13:03	25502	MADI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/12/2024 13:04	50506	MECH_T1	1	3	2	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
6/12/2024 13:04	50501	MECH_T1	4	4	0	0.28	0.45	0.17	0	0	0	0	0	0	0	0
6/12/2024 13:04	50505	MECH_T1	0	1	1	0	0.2	0.2	-2.97	-2.88	0	0	0	0	0	0
6/12/2024 13:04	50502	MECH_T1	1	1	0	1.5	1.8	0.3	0	0	0	0	0	0	0	0
6/12/2024 13:04	50504	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 13:05	42902	MIDD_T2	0	0	0	0	0	0	-0.2	-0.03	1	1	0	600	600	0
6/12/2024 13:05	57006	WHHI_T2	0	3	3	0	0.8	0.8	-0.32	-0.32	0	0	0	0	0	0
6/12/2024 13:05	57003	WHHI_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
6/12/2024 13:06	13303	ORVI_T1	0	0	0	0	0	0	0.17	0.21	0	0	0	0	0	0
6/12/2024 13:06	51002	NHAR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 13:06	55002	NEWP_T1	11	13	2	0.72	0.82	0.1	-0.31	-0.3	0	0	0	0	0	0
6/12/2024 13:06	55001	NEWP_T1	1	2	1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/12/2024 13:06	51003	NHAR_T1	0	0	0	0	0	0	-0.92	-1.1	1	1	0	1200	1200	0
6/12/2024 13:06	51004	NHAR_T1	1	5	4	6.5	1.38	-5.12	0	0	0	0	0	0	0	0
6/12/2024 13:06	66902	SHIL_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
6/12/2024 13:06	66903	SHIL_T2	1	2	1	0.9	0.75	-0.15	-0.65	-0.64	0	0	0	0	0	0
6/12/2024 13:06	55003	NEWP_T2	8	8	0	0.3	0.35	0.05	0.08	0.09	0	0	0	0	0	0
6/12/2024 13:09	10102	ALLE_T2	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
6/12/2024 13:11	57003	WHHI_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
6/12/2024 13:11	23902	EFMO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 13:11	57006	WHHI_T2	0	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0
6/12/2024 13:11	57004	WHHI_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
6/12/2024 13:11	42102	FRAI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 13:11	23901	EFMO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 13:12	61506	EPET_T2	0	0	0	0	0	0	-1.55	-1.49	2	2	0	1800	1800	0
6/12/2024 13:12	61501	EPET_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
6/12/2024 13:12	20102	AVOC_T1	0	0	0	0	0	0	-0.2	-0.23	0	0	0	0	0	0
6/12/2024 13:13	51601	DUKE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 13:13	61803	EELI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/12/2024 13:13	61802	EELI_T2	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
6/12/2024 13:13	51603	DUKE_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
6/12/2024 13:13	54506	ENOL_T2	0	0	0	0	0	0	0.54	0.58	1	0	-1	600	0	-600
6/12/2024 13:15	24103	EHAZ_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
6/12/2024 13:15	24104	EHAZ_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/12/2024 13:15	24105	EHAZ_T1	4	4	0	6.4	6.48	0.08	0	0	0	0	0	0	0	0
6/12/2024 13:15	24101	EHAZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/12/2024 13:15	24102	EHAZ_T1	1	2	1	0.6	0.5	-0.1	0	0.76	0	0	0	0	0	0
6/12/2024 13:16	50501	MECH_T1	4	4	0	0.45	0.58	0.13	0	0	0	0	0	0	0	0
6/12/2024 13:16	50505	MECH_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/12/2024 13:16	50506	MECH_T1	3	2	-1	0.4	0.9	0.5	-0.05	-0.01	1	1	0	900	900	0
6/12/2024 13:16	50502	MECH_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
6/12/2024 13:16	50504	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 13:20	23002	SAJO_T1	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
6/12/2024 13:20	23001	SAJO_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
6/12/2024 13:22	23001	SAJO_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
6/12/2024 13:22	55103	WERT_T1	1	1	0	4.2	5.2	1	0	0	0	0	0	0	0	0
6/12/2024 13:22	55101	WERT_T1	0	0	0	0	0	0	-1.13	-1.84	3	4	1	2400	3300	900
6/12/2024 13:22	23002	SAJO_T1	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
6/12/2024 13:23	67503	WEWI_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
6/12/2024 13:23	67502	WEWI_T2	7	31	24	0.54	0.35	-0.19	-0.89	-0.87	1	1	0	900	900	0
6/12/2024 13:26	54505	ENOL_T2	0	0	0	0	0	0	-1.14	-1.13	1	1	0	600	600	0
6/12/2024 13:26	67502	WEWI_T2	7	31	24	0.54	0.35	-0.19	-0.89	-0.87	1	1	0	900	900	0
6/12/2024 13:26	51603	DUKE_T1	0	0	0	0	0	0	-0.17	-0.13	0	0	0	0	0	0
6/12/2024 13:26	67503	WEWI_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
6/12/2024 13:26	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 13:27	24104	EHAZ_T1	1	1	0	0.5	0.3	-0.2	-0.84	-0.83	1	1	0	1200	1200	0
6/12/2024 13:27	24105	EHAZ_T1	4	4	0	6.4	6.48	0.08	0	0	0	0	0	0	0	0
6/12/2024 13:27	24102	EHAZ_T1	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
6/12/2024 13:27	24103	EHAZ_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
6/12/2024 13:27	24101	EHAZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/12/2024 13:28	52401	GRPA_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
6/12/2024 13:28	54505	ENOL_T2	0	0	0	0	0	0	-1.14	-1.13	1	1	0	600	600	0
6/12/2024 13:28	52403	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 13:28	52402	GRPA_T2	11	12	1	0.29	0.29	0	-1.42	-1.39	0	0	0	0	0	0
6/12/2024 13:29	52404	GRPA_T2	0	0	0	0	0	0	1.28	1.19	0	0	0	0	0	0
6/12/2024 13:29	52403	GRPA_T2	1	0	-1	0.1	0	-0.1	0.67	0.77	0	0	0	0	0	0
6/12/2024 13:29	52402	GRPA_T2	11	12	1	0.29	0.29	0	0	0	0	0	0	0	0	0
6/12/2024 13:29	52401	GRPA_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
6/12/2024 13:29	12701	MACU_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
6/12/2024 13:30	52402	GRPA_T2	9	8	-1	0.29	0.34	0.05	0	0	0	0	0	0	0	0
6/12/2024 13:30	52404	GRPA_T2	0	0	0	0	0	0	1.28	1.19	0	0	0	0	0	0
6/12/2024 13:30	64204	KINZ_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
6/12/2024 13:30	64203	KINZ_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/12/2024 13:30	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 13:30	64201	KINZ_T1	0	0	0	0	0	0	-0.29	-0.24	4	4	0	2100	2100	0
6/12/2024 13:31	42902	MIDD_T2	0	1	1	0	0.5	0.5	-0.06	-0.03	1	1	0	600	600	0
6/12/2024 13:31	53902	HALI_T2	2	3	1	2.8	2.6	-0.2	-0.04	-0.65	0	0	0	0	0	0
6/12/2024 13:31	53903	HALI_T2	5	12	7	0.92	0.96	0.04	0	0	0	0	0	0	0	0
6/12/2024 13:31	53901	HALI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/12/2024 13:31	42903	MIDD_T2	0	3	3	0	1.05	1.05	0	0	0	0	0	0	0	0
6/12/2024 13:32	50502	MECH_T1	1	1	0	1.6	2	0.4	0	0	0	0	0	0	0	0
6/12/2024 13:32	50505	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 13:32	50504	MECH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/12/2024 13:32	50506	MECH_T1	1	3	2	1.7	0.57	-1.13	-0.02	0.74	3	3	0	2700	2700	0
6/12/2024 13:32	12701	MACU_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
6/12/2024 13:32	58401	MORO_T1	0	0	0	0	0	0	-0.7	-0.69	1	1	0	600	600	0
6/12/2024 13:32	50501	MECH_T1	4	4	0	0.4	0.58	0.18	0	0	0	0	0	0	0	0
6/12/2024 13:33	64204	KINZ_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
6/12/2024 13:33	64203	KINZ_T1	1	1	0	0.2	0	-0.2	0.43	0.41	3	3	0	2100	2100	0
6/12/2024 13:34	58401	MORO_T1	0	0	0	0	0	0	-0.7	-0.69	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/12/2024 13:34	58402	MORO_T1	0	0	0	0	0	0	-1.86	-1.79	6	6	0	4800	4800	0
6/12/2024 13:37	10105	ALLE_T3	3	3	0	0.47	0.13	-0.34	0	0	0	0	0	0	0	0
6/12/2024 13:37	10102	ALLE_T2	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
6/12/2024 13:37	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 13:37	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 13:37	55101	WERT_T1	0	0	0	0	0	0	-1.84	-1.83	4	4	0	3300	3300	0
6/12/2024 13:37	55103	WERT_T1	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
6/12/2024 13:38	67901	WNHO_T2	0	0	0	0	0	0	0.45	0.5	1	1	0	900	900	0
6/12/2024 13:38	55101	WERT_T1	0	0	0	0	0	0	-1.84	-1.83	4	4	0	3300	3300	0
6/12/2024 13:38	55103	WERT_T1	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
6/12/2024 13:39	55101	WERT_T1	0	0	0	0	0	0	-1.84	-1.83	4	4	0	3300	3300	0
6/12/2024 13:39	67903	WNHO_T1	0	0	0	0	0	0	1.33	1.33	1	1	0	1200	1200	0
6/12/2024 13:39	55103	WERT_T1	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
6/12/2024 13:40	55103	WERT_T1	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
6/12/2024 13:40	55101	WERT_T1	0	0	0	0	0	0	-7.38	-7.3	16	16	0	13200	13200	0
6/12/2024 13:41	22003	BOHE_T1	4	3	-1	1.53	1.3	-0.23	0	0	0	0	0	0	0	0
6/12/2024 13:41	22001	BOHE_T1	3	0	-3	0.17	0	-0.17	0.28	0.28	0	0	0	0	0	0
6/12/2024 13:42	51603	DUKE_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
6/12/2024 13:42	61702	ELIZ_T2	0	0	0	0	0	0	-1.84	-1.75	2	2	0	1500	1500	0
6/12/2024 13:42	53902	HALI_T2	2	3	1	2.8	2.6	-0.2	0	0	0	0	0	0	0	0
6/12/2024 13:42	53901	HALI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/12/2024 13:42	53903	HALI_T2	5	12	7	0.92	0.96	0.04	-0.05	-0.05	0	0	0	0	0	0
6/12/2024 13:43	60101	COCA_T1	0	5	5	0	0.3	0.3	0.58	0.58	0	0	0	0	0	0
6/12/2024 13:43	53501	EVIL_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/12/2024 13:43	53502	EVIL_T2	0	1	1	0	0	0	0.35	0.44	2	2	0	1200	1200	0
6/12/2024 13:44	56801	BENV_T1	9	30	21	1.01	0.67	-0.34	0.1	-0.58	1	1	0	600	600	0
6/12/2024 13:44	53902	HALI_T2	2	3	1	2.8	2.6	-0.2	0	0	0	0	0	0	0	0
6/12/2024 13:44	53901	HALI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/12/2024 13:44	56803	BENV_T1	2	4	2	1.65	0.7	-0.95	0	0	0	0	0	0	0	0
6/12/2024 13:44	53903	HALI_T2	5	12	7	0.92	0.96	0.04	-0.05	-0.05	0	0	0	0	0	0
6/12/2024 13:45	56803	BENV_T1	4	3	-1	0.75	0.45	-0.3	0	0	0	0	0	0	0	0
6/12/2024 13:45	12701	MACU_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
6/12/2024 13:45	56801	BENV_T1	15	25	10	0.48	0.77	0.29	0.1	-0.58	1	1	0	600	600	0
6/12/2024 13:46	56801	BENV_T1	15	25	10	0.48	0.77	0.29	0.1	-0.58	1	1	0	600	600	0
6/12/2024 13:46	53903	HALI_T2	12	8	-4	0.96	0.95	-0.01	-0.05	-0.05	0	0	0	0	0	0
6/12/2024 13:46	53901	HALI_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/12/2024 13:46	64201	KINZ_T1	0	0	0	0	0	0	-0.24	-0.15	4	4	0	2100	2100	0
6/12/2024 13:46	64204	KINZ_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
6/12/2024 13:46	53902	HALI_T2	3	3	0	2.6	2.53	-0.07	0	0	0	0	0	0	0	0
6/12/2024 13:46	56803	BENV_T1	4	3	-1	0.75	0.45	-0.3	0	0	0	0	0	0	0	0
6/12/2024 13:46	64203	KINZ_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/12/2024 13:48	50505	MECH_T1	0	0	0	0	0	0	-2.98	-2.9	0	0	0	0	0	0
6/12/2024 13:48	41202	KENM_T2	0	0	0	0	0	0	0.84	0.86	0	0	0	0	0	0
6/12/2024 13:48	50506	MECH_T1	1	2	1	0.1	1	0.9	0	0	0	0	0	0	0	0
6/12/2024 13:48	50502	MECH_T1	1	1	0	2	1.6	-0.4	0	0	0	0	0	0	0	0
6/12/2024 13:48	50501	MECH_T1	4	4	0	0.58	0.4	-0.18	0	0	0	0	0	0	0	0
6/12/2024 13:48	12701	MACU_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
6/12/2024 13:49	50506	MECH_T1	1	2	1	0.1	1	0.9	0	0	0	0	0	0	0	0
6/12/2024 13:49	50502	MECH_T1	1	1	0	2	1.6	-0.4	0.21	0.2	0	0	0	0	0	0
6/12/2024 13:49	50501	MECH_T1	4	4	0	0.58	0.4	-0.18	0	0	0	0	0	0	0	0
6/12/2024 13:50	48302	ORWI_T2	2	2	0	0.6	0.4	-0.2	0.22	0.23	0	0	0	0	0	0
6/12/2024 13:50	42802	SELI_T1	0	1	1	0	0	0	-0.26	-0.28	1	1	0	900	900	0
6/12/2024 13:51	42802	SELI_T1	0	1	1	0	0	0	-0.28	-0.32	1	1	0	900	900	0
6/12/2024 13:51	54601	SUMM_T2	0	0	0	0	0	0	-1.57	-1.58	2	2	0	2100	2100	0
6/12/2024 13:52	10102	ALLE_T2	1	1	0	7.5	6.8	-0.7	0	0	0	0	0	0	0	0
6/12/2024 13:52	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 13:52	10203	ALLE_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/12/2024 13:56	56602	HAMP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 13:56	24902	WHHA_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
6/12/2024 13:57	45501	DERR_T2	1	2	1	0.6	0.3	-0.3	1.01	0.98	2	2	0	1800	1800	0
6/12/2024 13:58	21203	ECAR_T1	6	2	-4	0.48	0.75	0.27	0.81	0.81	0	0	0	0	0	0
6/12/2024 13:58	40101	HUNT_T2	1	4	3	0.7	0.3	-0.4	0.05	0.07	0	0	0	0	0	0
6/12/2024 14:00	52001	LING_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
6/12/2024 14:01	53501	EVIL_T2	2	3	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
6/12/2024 14:01	53502	EVIL_T2	1	1	0	0.1	0	-0.1	0.44	0.39	2	2	0	1200	1200	0
6/12/2024 14:02	24501	GOUL_T2	0	3	3	0	0.23	0.23	0.05	0.05	0	0	0	0	0	0
6/12/2024 14:05	65603	QVIL_T2	0	0	0	0	0	0	-0.2	-0.16	0	0	0	0	0	0
6/12/2024 14:06	14801	TREI_T2	3	2	-1	0.27	0.75	0.48	0	0	0	0	0	0	0	0
6/12/2024 14:06	14802	TREI_T2	0	0	0	0	0	0	0.8	0.81	0	0	0	0	0	0
6/12/2024 14:06	64101	REFR_T1	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
6/12/2024 14:07	67503	WEWI_T2	2	1	-1	0.4	0.2	-0.2	0.27	0.34	0	0	0	0	0	0
6/12/2024 14:07	67502	WEWI_T2	15	11	-4	0.37	0.45	0.08	-0.87	-0.88	1	1	0	900	900	0
6/12/2024 14:07	64101	REFR_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
6/12/2024 14:08	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 14:08	67502	WEWI_T2	15	11	-4	0.37	0.45	0.08	0	0	0	0	0	0	0	0
6/12/2024 14:08	20102	AVOC_T1	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
6/12/2024 14:08	64101	REFR_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
6/12/2024 14:08	67503	WEWI_T2	2	1	-1	0.4	0.2	-0.2	0.27	0.34	0	0	0	0	0	0
6/12/2024 14:09	60101	COCA_T1	4	0	-4	0.18	0	-0.18	0.59	0.6	0	0	0	0	0	0
6/12/2024 14:09	27502	WEIS_T2	0	0	0	0	0	0	-0.2	-0.16	0	0	0	0	0	0
6/12/2024 14:09	10102	ALLE_T2	1	1	0	7.7	6.8	-0.9	0	0	0	0	0	0	0	0
6/12/2024 14:09	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 14:09	27503	WEIS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 14:09	67502	WEWI_T2	15	11	-4	0.37	0.45	0.08	0	0	0	0	0	0	0	0
6/12/2024 14:09	10203	ALLE_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/12/2024 14:09	64101	REFR_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
6/12/2024 14:09	67503	WEWI_T2	2	1	-1	0.4	0.2	-0.2	0.53	0.69	0	0	0	0	0	0
6/12/2024 14:10	14203	EALL_T1	2	0	-2	0.35	0	-0.35	0.29	0.33	1	1	0	1200	1200	0
6/12/2024 14:11	64101	REFR_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
6/12/2024 14:11	14203	EALL_T1	2	0	-2	0.35	0	-0.35	0.29	0.33	1	1	0	1200	1200	0
6/12/2024 14:11	45501	DERR_T2	1	3	2	0.5	0.17	-0.33	0.98	0.87	2	2	0	1800	1800	0
6/12/2024 14:12	63501	HEID_TBK1-2	5	3	-2	0.42	0.37	-0.05	0.47	0.43	1	1	0	900	900	0
6/12/2024 14:13	63306	GREE_T1	4	2	-2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
6/12/2024 14:13	63305	GREE_T1	1	0	-1	0.1	0	-0.1	-1.73	-1.75	1	1	0	900	900	0
6/12/2024 14:16	63306	GREE_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/12/2024 14:16	51201	MTON_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
6/12/2024 14:16	63305	GREE_T1	0	0	0	0	0	0	-1.73	-1.75	1	1	0	900	900	0
6/12/2024 14:17	40101	HUNT_T2	2	7	5	0.4	0.27	-0.13	0.07	0.13	0	0	0	0	0	0
6/12/2024 14:17	64904	MILL_T1	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
6/12/2024 14:18	56801	BENV_T1	22	18	-4	0.67	0.6	-0.07	-0.57	-0.56	1	1	0	600	600	0
6/12/2024 14:18	64902	MILL_T2	0	0	0	0	0	0	-0.27	-0.26	1	1	0	900	900	0
6/12/2024 14:18	56803	BENV_T1	1	3	2	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
6/12/2024 14:20	57106	SPHI_T2	4	3	-1	0.9	1.4	0.5	0	0	0	0	0	0	0	0
6/12/2024 14:20	56801	BENV_T1	22	18	-4	0.67	0.6	-0.07	-0.57	-0.56	1	1	0	600	600	0
6/12/2024 14:20	56803	BENV_T1	1	3	2	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
6/12/2024 14:20	57104	SPHI_T2	2	3	1	1.05	0.9	-0.15	-1.54	-1.52	1	1	0	900	900	0
6/12/2024 14:22	57104	SPHI_T2	2	3	1	1.05	0.9	-0.15	0	0	0	0	0	0	0	0
6/12/2024 14:22	57103	SPHI_T2	0	0	0	0	0	0	-0.47	-0.38	0	0	0	0	0	0
6/12/2024 14:22	55101	WERT_T1	0	0	0	0	0	0	-1.94	-1.84	4	4	0	3300	3300	0
6/12/2024 14:22	55103	WERT_T1	1	1	0	4.9	3.8	-1.1	0	0	0	0	0	0	0	0
6/12/2024 14:22	54201	PENN_T1	3	13	10	1.3	0.65	-0.65	0	0	0	0	0	0	0	0
6/12/2024 14:22	57106	SPHI_T2	4	3	-1	0.9	1.4	0.5	0	0	0	0	0	0	0	0
6/12/2024 14:22	54203	PENN_T1	5	18	13	0.48	0.62	0.14	1.1	1.11	0	0	0	0	0	0
6/12/2024 14:23	58006	WCAR_T2	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
6/12/2024 14:28	11104	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 14:28	45501	DERR_T2	2	3	1	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
6/12/2024 14:28	11102	EGYP_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
6/12/2024 14:28	11103	EGYP_T1	0	1	1	0	0.1	0.1	-0.69	-0.69	0	0	0	0	0	0
6/12/2024 14:28	45502	DERR_T2	0	0	0	0	0	0	0.12	0.14	1	1	0	300	300	0
6/12/2024 14:29	40101	HUNT_T2	2	7	5	0.4	0.27	-0.13	0.13	-0.02	0	0	0	0	0	0
6/12/2024 14:31	11103	EGYP_T1	0	1	1	0	0.2	0.2	-0.69	-0.69	0	0	0	0	0	0
6/12/2024 14:31	11104	EGYP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 14:31	64204	KINZ_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
6/12/2024 14:31	64203	KINZ_T1	1	1	0	0.3	0.1	-0.2	0.34	0.43	3	3	0	2100	2100	0
6/12/2024 14:32	12701	MACU_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
6/12/2024 14:33	52004	LING_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
6/12/2024 14:35	44202	POIN_T2	0	0	0	0	0	0	-0.45	-0.46	1	1	0	1200	1200	0
6/12/2024 14:35	58401	MORO_T1	0	0	0	0	0	0	-1.28	-1.27	2	2	0	1200	1200	0
6/12/2024 14:35	44203	POIN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 14:35	54601	SUMM_T2	0	0	0	0	0	0	-1.57	-1.53	2	2	0	2100	2100	0
6/12/2024 14:37	44302	BEAV_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/12/2024 14:37	44301	BEAV_T2	7	5	-2	0.53	0.66	0.13	0.33	0.12	1	1	0	600	600	0
6/12/2024 14:38	54601	SUMM_T2	0	0	0	0	0	0	-1.53	-1.51	2	2	0	2100	2100	0
6/12/2024 14:39	14802	TREI_T2	0	1	1	0	0.1	0.1	0.82	0.84	0	0	0	0	0	0
6/12/2024 14:39	14801	TREI_T2	1	3	2	1.3	0.6	-0.7	0	0	0	0	0	0	0	0
6/12/2024 14:39	60801	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 14:39	60803	BUCK_T1	0	0	0	0	0	0	-0.99	-0.99	1	1	0	600	600	0
6/12/2024 14:39	58006	WCAR_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
6/12/2024 14:40	12007	HATF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 14:40	60801	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 14:40	12002	HATF_T1	0	0	0	0	0	0	-0.7	-0.66	0	0	0	0	0	0
6/12/2024 14:40	60803	BUCK_T1	0	0	0	0	0	0	-0.99	-0.99	1	1	0	600	600	0
6/12/2024 14:41	46203	DANV_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/12/2024 14:41	46206	DANV_T2	1	1	0	1	1.3	0.3	2.59	2.92	1	1	0	1200	1200	0
6/12/2024 14:42	60803	BUCK_T1	0	0	0	0	0	0	-1.98	-1.97	2	2	0	1200	1200	0
6/12/2024 14:42	60801	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 14:43	11103	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 14:43	11104	EGYP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 14:43	11102	EGYP_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
6/12/2024 14:46	58401	MORO_T1	0	0	0	0	0	0	-1.27	-1.25	2	2	0	1200	1200	0
6/12/2024 14:48	55003	NEWP_T2	5	8	3	0.22	0.33	0.11	0.1	0.1	0	0	0	0	0	0
6/12/2024 14:48	55002	NEWP_T1	5	9	4	0.68	0.41	-0.27	-0.13	-0.13	0	0	0	0	0	0
6/12/2024 14:48	55001	NEWP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/12/2024 14:49	16403	MOPO_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
6/12/2024 14:51	16401	MOPO_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/12/2024 14:51	55001	NEWP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/12/2024 14:51	55002	NEWP_T1	5	9	4	0.68	0.41	-0.27	-0.13	-0.13	0	0	0	0	0	0
6/12/2024 14:51	16406	MOPO_T1	0	0	0	0	0	0	0.52	0.53	1	1	0	1200	1200	0
6/12/2024 14:51	59302	MCAL_T1	0	0	0	0	0	0	-0.07	-0.03	1	1	0	600	600	0
6/12/2024 14:51	16402	MOPO_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/12/2024 14:55	55102	WERT_T2	0	0	0	0	0	0	-0.97	-1.25	2	2	0	1200	1200	0
6/12/2024 14:57	14204	EALL_T2	3	2	-1	0.3	0.35	0.05	-0.2	-0.17	0	0	0	0	0	0
6/12/2024 15:00	25402	LAHA_T2	1	2	1	0.2	0.55	0.35	-0.18	-0.2	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/12/2024 15:00	52403	GRPA_T2	0	0	0	0	0	0	0.36	0.46	0	0	0	0	0	0
6/12/2024 15:00	52402	GRPA_T2	16	15	-1	0.43	0.45	0.02	0	0	0	0	0	0	0	0
6/12/2024 15:02	14204	EALL_T2	2	2	0	0.35	0.3	-0.05	-0.2	-0.17	0	0	0	0	0	0
6/12/2024 15:03	25402	LAHA_T2	1	2	1	0.2	0.55	0.35	-0.18	-0.2	0	0	0	0	0	0
6/12/2024 15:08	16302	ALPA_T2	0	0	0	0	0	0	2.38	2.77	0	0	0	0	0	0
6/12/2024 15:09	16302	ALPA_T2	0	0	0	0	0	0	1.19	1.39	0	0	0	0	0	0
6/12/2024 15:11	18001	ZION_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
6/12/2024 15:11	16302	ALPA_T2	0	0	0	0	0	0	1.19	1.39	0	0	0	0	0	0
6/12/2024 15:12	29401	BELT_T1	4	2	-2	0.33	0.4	0.07	0	0	1	1	0	900	900	0
6/12/2024 15:12	45502	DERR_T2	0	0	0	0	0	0	0.27	0.33	1	1	0	300	300	0
6/12/2024 15:12	29402	BELT_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
6/12/2024 15:12	45501	DERR_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/12/2024 15:14	64701	LITI_T1	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
6/12/2024 15:15	41801	GOCI_T2	11	5	-6	0.37	0.32	-0.05	0	0	0	0	0	0	0	0
6/12/2024 15:15	12703	MACU_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
6/12/2024 15:15	12705	MACU_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/12/2024 15:18	40601	PIGR_T1	6	0	-6	0.22	0	-0.22	0	0	0	0	0	0	0	0
6/12/2024 15:18	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 15:18	64204	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
6/12/2024 15:18	40602	PIGR_T1	1	1	0	0.2	0.4	0.2	0	0	1	1	0	600	600	0
6/12/2024 15:18	64203	KINZ_T1	0	0	0	0	0	0	0.29	0.27	3	3	0	2100	2100	0
6/12/2024 15:20	47802	MOCA_T2	1	1	0	0.8	0.7	-0.1	-0.87	-0.86	0	0	0	0	0	0
6/12/2024 15:22	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 15:22	57004	WHHI_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
6/12/2024 15:22	40601	PIGR_T1	6	0	-6	0.22	0	-0.22	0	0	0	0	0	0	0	0
6/12/2024 15:22	57006	WHHI_T2	2	3	1	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
6/12/2024 15:22	40602	PIGR_T1	1	1	0	0.2	0.4	0.2	0	0	1	1	0	600	600	0
6/12/2024 15:24	14601	SWHI_T1	1	0	-1	0.3	0	-0.3	-0.66	-0.66	0	0	0	0	0	0
6/12/2024 15:25	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 15:25	10805	CHHI_T2	1	1	0	8.7	8	-0.7	-0.78	-0.99	1	1	0	600	600	0
6/12/2024 15:25	10105	ALLE_T3	12	7	-5	0.78	0.6	-0.18	0	0	0	0	0	0	0	0
6/12/2024 15:26	45501	DERR_T2	1	1	0	0.7	0	-0.7	0.96	0.92	2	2	0	1800	1800	0
6/12/2024 15:29	10805	CHHI_T2	1	1	0	8.7	8	-0.7	-0.78	-0.99	1	1	0	600	600	0
6/12/2024 15:30	40902	JESH_T1	0	0	0	0	0	0	-0.79	-0.82	2	2	0	1200	1200	0
6/12/2024 15:30	40901	JESH_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
6/12/2024 15:34	42201	SHEN_T2	1	0	-1	0.1	0	-0.1	0.7	0.69	0	0	0	0	0	0
6/12/2024 15:36	42201	SHEN_T2	1	0	-1	0.1	0	-0.1	0.7	0.69	0	0	0	0	0	0
6/12/2024 15:38	67602	WARW_T2	0	0	0	0	0	0	0.07	0.12	4	4	0	3000	3000	0
6/12/2024 15:39	27502	WEIS_T2	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
6/12/2024 15:39	27503	WEIS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 15:39	67602	WARW_T2	0	0	0	0	0	0	0.04	0.06	2	2	0	1500	1500	0
6/12/2024 15:41	67602	WARW_T2	0	0	0	0	0	0	0.04	0.06	2	2	0	1500	1500	0
6/12/2024 15:42	67602	WARW_T2	0	0	0	0	0	0	0.04	0.06	2	2	0	1500	1500	0
6/12/2024 15:44	52402	GRPA_T2	7	5	-2	0.64	0.54	-0.1	0	0	0	0	0	0	0	0
6/12/2024 15:44	52403	GRPA_T2	0	0	0	0	0	0	0.39	0.43	0	0	0	0	0	0
6/12/2024 15:49	13503	MCMI_T2	7	6	-1	0.44	0.33	-0.11	0.03	0.03	0	0	0	0	0	0
6/12/2024 15:49	64101	REFR_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
6/12/2024 15:50	65901	SAKR_T2	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
6/12/2024 15:50	65902	SAKR_T2	0	0	0	0	0	0	-0.16	-0.21	1	1	0	300	300	0
6/12/2024 15:55	21206	ECAR_T2	1	1	0	8.1	8.1	0	-0.11	-0.2	0	0	0	0	0	0
6/12/2024 15:55	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 15:55	64101	REFR_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
6/12/2024 15:56	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 15:56	21206	ECAR_T2	1	1	0	8.1	8.1	0	-0.11	-0.2	0	0	0	0	0	0
6/12/2024 15:56	64101	REFR_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
6/12/2024 15:58	40101	HUNT_T2	1	2	1	0.2	1	0.8	-0.21	-0.21	0	0	0	0	0	0
6/12/2024 16:05	56501	ROCK_T2	3	3	0	0.4	0.47	0.07	0	0	0	0	0	0	0	0
6/12/2024 16:05	56503	ROCK_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/12/2024 16:05	56504	ROCK_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
6/12/2024 16:06	56504	ROCK_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
6/12/2024 16:06	56503	ROCK_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/12/2024 16:06	56501	ROCK_T2	3	3	0	0.4	0.47	0.07	0	0	0	0	0	0	0	0
6/12/2024 16:08	56501	ROCK_T2	3	3	0	0.4	0.47	0.07	-0.84	-0.82	0	0	0	0	0	0
6/12/2024 16:08	56503	ROCK_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/12/2024 16:09	10805	CHHI_T2	1	1	0	7.9	8.4	0.5	-1.63	-1.45	2	2	0	1200	1200	0
6/12/2024 16:09	56503	ROCK_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/12/2024 16:09	56501	ROCK_T2	3	3	0	0.4	0.47	0.07	0	0	0	0	0	0	0	0
6/12/2024 16:09	56504	ROCK_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
6/12/2024 16:10	59301	MCAL_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/12/2024 16:10	59302	MCAL_T1	0	0	0	0	0	0	0	-0.02	1	1	0	600	600	0
6/12/2024 16:11	14204	EALL_T2	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
6/12/2024 16:11	21206	ECAR_T2	1	1	0	8.1	8.2	0.1	-0.2	-0.16	0	0	0	0	0	0
6/12/2024 16:11	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 16:12	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 16:12	21206	ECAR_T2	1	1	0	8.1	8.2	0.1	-0.2	-0.16	0	0	0	0	0	0
6/12/2024 16:17	44202	POIN_T2	0	1	1	0	0	0	-0.43	-0.43	1	1	0	1200	1200	0
6/12/2024 16:21	40602	PIGR_T1	1	1	0	0.7	0.9	0.2	0	0	1	1	0	600	600	0
6/12/2024 16:21	40601	PIGR_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/12/2024 16:22	64101	REFR_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
6/12/2024 16:23	64101	REFR_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
6/12/2024 16:27	10805	CHHI_T2	1	1	0	8.4	8.4	0	-0.73	-0.84	1	1	0	600	600	0
6/12/2024 16:32	12206	FOGE_T2	0	0	0	0	0	0	-0.61	-0.74	3	2	-1	3300	2100	-1200
6/12/2024 16:33	43202	MVIL_T2	0	13	13	0	0.2	0.2	-0.57	-0.58	0	0	0	0	0	0
6/12/2024 16:33	46301	ROHR_T1	5	5	0	0.78	0.68	-0.1	0.29	0.28	0	0	0	0	0	0
6/12/2024 16:33	12206	FOGE_T2	0	0	0	0	0	0	-0.61	-0.74	3	2	-1	3300	2100	-1200
6/12/2024 16:33	13502	MCMI_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/12/2024 16:33	13501	MCMI_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
6/12/2024 16:33	46302	ROHR_T1	5	4	-1	1.74	1.78	0.04	0	0	0	0	0	0	0	0
6/12/2024 16:34	46302	ROHR_T1	5	4	-1	1.74	1.78	0.04	0	0	0	0	0	0	0	0
6/12/2024 16:34	46301	ROHR_T1	5	5	0	0.78	0.68	-0.1	0.29	0.28	0	0	0	0	0	0
6/12/2024 16:36	59301	MCAL_T1	2	2	0	0.3	0.75	0.45	0	0	0	0	0	0	0	0
6/12/2024 16:36	43202	MVIL_T2	0	13	13	0	0.2	0.2	-0.58	-0.58	0	0	0	0	0	0
6/12/2024 16:36	59302	MCAL_T1	0	0	0	0	0	0	-0.02	-0.03	1	1	0	600	600	0
6/12/2024 16:37	65901	SAKR_T2	1	1	0	7.2	7.6	0.4	0	0	0	0	0	0	0	0
6/12/2024 16:37	65902	SAKR_T2	0	0	0	0	0	0	-0.06	-0.06	1	1	0	300	300	0
6/12/2024 16:38	56503	ROCK_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/12/2024 16:38	56504	ROCK_T2	0	1	1	0	0.1	0.1	0.02	0.03	0	0	0	0	0	0
6/12/2024 16:38	64101	REFR_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
6/12/2024 16:38	56501	ROCK_T2	3	2	-1	0.33	0.4	0.07	0	0	0	0	0	0	0	0
6/12/2024 16:41	57001	WHHI_T2	0	0	0	0	0	0	-1.08	-1.12	1	1	0	900	900	0
6/12/2024 16:41	10602	BLGI_T2	0	1	1	0	0.2	0.2	0.53	0.54	0	0	0	0	0	0
6/12/2024 16:41	57006	WHHI_T2	5	17	12	0.32	0.25	-0.07	0	0	0	0	0	0	0	0
6/12/2024 16:44	52004	LING_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
6/12/2024 16:44	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 16:44	56503	ROCK_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/12/2024 16:44	56501	ROCK_T2	3	2	-1	0.33	0.4	0.07	-0.79	-0.77	0	0	0	0	0	0
6/12/2024 16:44	41801	GOCI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 16:45	43304	WATS_T2	0	0	0	0	0	0	-0.2	-0.17	0	0	0	0	0	0
6/12/2024 16:45	43302	WATS_T2	4	2	-2	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
6/12/2024 16:45	43301	WATS_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/12/2024 16:45	46102	MACI_T1	0	0	0	0	0	0	0.9	1.06	0	0	0	0	0	0
6/12/2024 16:46	43304	WATS_T2	0	0	0	0	0	0	-0.2	-0.17	0	0	0	0	0	0
6/12/2024 16:46	43301	WATS_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/12/2024 16:46	43302	WATS_T2	4	2	-2	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
6/12/2024 16:46	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
6/12/2024 16:48	51401	LYKE_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
6/12/2024 16:48	25402	LAHA_T2	0	0	0	0	0	0	-1.18	-0.77	0	0	0	0	0	0
6/12/2024 16:48	58401	MORO_T1	0	0	0	0	0	0	-1.23	-1.23	2	2	0	1200	1200	0
6/12/2024 16:48	58402	MORO_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 16:49	51401	LYKE_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
6/12/2024 17:04	50502	MECH_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
6/12/2024 17:04	50501	MECH_T1	4	4	0	0.8	0.65	-0.15	-0.56	-0.73	0	0	0	0	0	0
6/12/2024 17:07	67204	TEHI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
6/12/2024 17:10	67204	TEHI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
6/12/2024 17:11	61701	ELIZ_T1	1	1	0	3.2	2.7	-0.5	0.73	0.8	0	0	0	0	0	0
6/12/2024 17:12	61701	ELIZ_T1	1	1	0	3.2	2.7	-0.5	1.46	1.61	0	0	0	0	0	0
6/12/2024 17:15	46004	BERW_T2	0	1	1	0	0	0	0.65	0.63	0	0	0	0	0	0
6/12/2024 17:18	43202	MVIL_T2	13	15	2	0.18	0.17	-0.01	-0.59	-0.59	0	0	0	0	0	0
6/12/2024 17:20	65603	QVIL_T2	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
6/12/2024 17:27	61701	ELIZ_T1	1	1	0	2.7	2.6	-0.1	0.8	0.88	0	0	0	0	0	0
6/12/2024 17:28	61701	ELIZ_T1	1	1	0	2.7	2.6	-0.1	0.8	0.88	0	0	0	0	0	0
6/12/2024 17:29	61701	ELIZ_T1	1	1	0	2.7	2.6	-0.1	0.8	0.88	0	0	0	0	0	0
6/12/2024 17:30	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/12/2024 17:30	64203	KINZ_T1	0	0	0	0	0	0	-0.09	-0.07	1	1	0	600	600	0
6/12/2024 17:30	52002	LING_T2	0	0	0	0	0	0	1.27	1.31	0	0	0	0	0	0
6/12/2024 17:31	52001	LING_T2	0	0	0	0	0	0	0.63	0.65	0	0	0	0	0	0
6/12/2024 17:37	13905	SEID_T1	0	0	0	0	0	0	-0.54	-0.57	1	1	0	1200	1200	0
6/12/2024 17:37	52002	LING_T2	0	0	0	0	0	0	0.65	0.67	0	0	0	0	0	0
6/12/2024 17:37	58003	WCAR_T1	3	2	-1	0.6	0.8	0.2	0.95	0.93	0	0	0	0	0	0
6/12/2024 17:37	58001	WCAR_T1	4	4	0	0.63	0.7	0.07	0	0	0	0	0	0	0	0
6/12/2024 17:38	58006	WCAR_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
6/12/2024 17:38	14802	TREI_T2	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
6/12/2024 17:38	14801	TREI_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/12/2024 17:40	58003	WCAR_T1	3	2	-1	0.6	0.8	0.2	0.95	0.93	0	0	0	0	0	0
6/12/2024 17:40	58001	WCAR_T1	4	4	0	0.63	0.7	0.07	0	0	0	0	0	0	0	0
6/12/2024 17:44	52402	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/12/2024 17:44	52403	GRPA_T2	11	16	5	1.3	1	-0.3	0.43	0.42	0	0	0	0	0	0
6/12/2024 17:50	50701	SMEC_T1	0	0	0	0	0	0	-0.15	-0.41	2	2	0	2400	2400	0
6/12/2024 17:54	67602	WARW_T2	0	0	0	0	0	0	0.18	0.16	2	2	0	1500	1500	0
6/12/2024 17:55	67602	WARW_T2	0	0	0	0	0	0	0.18	0.16	2	2	0	1500	1500	0
6/12/2024 17:59	61701	ELIZ_T1	1	1	0	2.6	2.4	-0.2	0.76	0.82	0	0	0	0	0	0
6/12/2024 18:00	61701	ELIZ_T1	1	1	0	2.4	2.4	0	0.76	0.82	0	0	0	0	0	0
6/12/2024 18:03	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 18:04	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 18:13	63501	HEID_TBK1-2	1	1	0	0.5	0.6	0.1	0.1	0.08	1	1	0	900	900	0
6/12/2024 18:20	12606	MACA_T1	0	0	0	0	0	0	0.14	0.15	1	1	0	900	900	0
6/12/2024 18:21	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 18:24	22002	BOHE_T1	0	0	0	0	0	0	0.4	0.46	0	0	0	0	0	0
6/12/2024 18:24	67804	WLAN_T1	1	1	0	1.4	0	-1.4	0	0	0	0	0	0	0	0
6/12/2024 18:24	22003	BOHE_T1	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
6/12/2024 18:24	67805	WLAN_T1	0	0	0	0	0	0	-0.99	-1.02	0	0	0	0	0	0
6/12/2024 18:25	58001	WCAR_T1	4	4	0	0.63	0.8	0.17	0	0	0	0	0	0	0	0
6/12/2024 18:25	58003	WCAR_T1	1	1	0	1.4	1.5	0.1	1.81	1.78	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/12/2024 18:26	10102	ALLE_T2	1	1	0	7	7	0	0	0	0	0	0	0	0	0
6/12/2024 18:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/12/2024 18:26	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 18:26	29402	BELT_T1	1	1	0	6.9	6.5	-0.4	0	0	0	0	0	0	0	0
6/12/2024 18:34	46001	BERW_T1	0	0	0	0	0	0	0.98	0.98	0	0	0	0	0	0
6/12/2024 18:34	44201	POIN_T1	0	0	0	0	0	0	-1.99	-1.91	2	2	0	2100	2100	0
6/12/2024 18:35	42001	MNVL_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 18:35	42002	MNVL_T2	1	1	0	2.3	2.3	0	-0.43	-0.46	0	0	0	0	0	0
6/12/2024 18:42	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/12/2024 18:42	29402	BELT_T1	1	1	0	6.4	6.8	0.4	0	0	0	0	0	0	0	0
6/12/2024 18:56	67804	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 18:56	67805	WLAN_T1	0	0	0	0	0	0	-1.03	-1.03	0	0	0	0	0	0
6/12/2024 18:57	58006	WCAR_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
6/12/2024 18:57	21206	ECAR_T2	1	1	0	7.4	7.9	0.5	0.16	0.15	0	0	0	0	0	0
6/12/2024 18:57	58002	WCAR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 18:57	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 18:58	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/12/2024 18:58	29402	BELT_T1	1	1	0	6.5	7.1	0.6	0	0	0	0	0	0	0	0
6/12/2024 18:59	54505	ENOL_T2	0	1	1	0	0.1	0.1	-0.92	-0.91	1	1	0	600	600	0
6/12/2024 19:05	59002	MIFF_T1	5	6	1	0.58	0.52	-0.06	0	0	0	0	0	0	0	0
6/12/2024 19:05	59003	MIFF_T1	2	1	-1	0.35	0.5	0.15	-0.09	-0.06	0	0	0	0	0	0
6/12/2024 19:06	14404	SSLA_T1	1	1	0	5	5.1	0.1	0.11	0.11	0	0	0	0	0	0
6/12/2024 19:06	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 19:06	21206	ECAR_T2	1	1	0	7.7	8	0.3	0.16	0.15	0	0	0	0	0	0
6/12/2024 19:07	13501	MCMI_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
6/12/2024 19:08	14404	SSLA_T1	1	1	0	5	5.1	0.1	0.11	0.11	0	0	0	0	0	0
6/12/2024 19:09	12006	HATF_T1	0	0	0	0	0	0	0.98	0.92	1	1	0	1200	1200	0
6/12/2024 19:14	53502	EVIL_T2	0	0	0	0	0	0	0.33	0.38	1	1	0	600	600	0
6/12/2024 19:14	53501	EVIL_T2	1	2	1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
6/12/2024 19:15	64701	LITI_T1	0	0	0	0	0	0	0.54	0.64	0	0	0	0	0	0
6/12/2024 19:16	14201	EALL_T1	0	0	0	0	0	0	1.07	1.04	0	0	0	0	0	0
6/12/2024 19:17	12601	MACA_T1	0	0	0	0	0	0	1.15	1.12	0	0	0	0	0	0
6/12/2024 19:19	64902	MILL_T2	0	0	0	0	0	0	-0.2	-0.22	1	1	0	900	900	0
6/12/2024 19:20	64503	LAVI_T1	0	1	1	0	0	0	-1.48	-1.38	1	1	0	1200	1200	0
6/12/2024 19:21	57103	SPHI_T2	0	0	0	0	0	0	-2.13	-2.02	0	0	0	0	0	0
6/12/2024 19:21	57101	SPHI_T2	0	6	6	0	0.4	0.4	0	0	0	0	0	0	0	0
6/12/2024 19:21	57106	SPHI_T2	3	3	0	1.57	1.83	0.26	0	0	0	0	0	0	0	0
6/12/2024 19:21	57104	SPHI_T2	1	1	0	2	1.6	-0.4	0	0	0	0	0	0	0	0
6/12/2024 19:22	64503	LAVI_T1	0	1	1	0	0	0	-1.38	-1.39	1	1	0	1200	1200	0
6/12/2024 19:23	16301	ALPA_T1	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
6/12/2024 19:29	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 19:29	21206	ECAR_T2	1	1	0	7.9	8.2	0.3	0.11	0.16	0	0	0	0	0	0
6/12/2024 19:29	23403	HONE_T1	0	0	0	0	0	0	-0.59	-0.63	0	0	0	0	0	0
6/12/2024 19:33	66303	MCGO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 19:33	66301	MCGO_T2	0	0	0	0	0	0	-1.46	-1.47	0	0	0	0	0	0
6/12/2024 19:34	13501	MCMI_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
6/12/2024 19:38	10102	ALLE_T2	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
6/12/2024 19:38	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 19:39	10102	ALLE_T2	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
6/12/2024 19:39	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 19:39	61103	BERK_T5	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
6/12/2024 19:40	29402	BELT_T1	1	1	0	7.2	7.3	0.1	0	0	0	0	0	0	0	0
6/12/2024 19:40	29401	BELT_T1	2	9	7	0.1	0.13	0.03	0	0	1	1	0	900	900	0
6/12/2024 19:41	40502	CRES_T2	7	14	7	0.2	0.27	0.07	-1.9	-1.99	0	0	0	0	0	0
6/12/2024 19:41	14205	EALL_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
6/12/2024 19:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 19:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 19:43	63804	HEMP_T1	1	1	0	5.2	5.3	0.1	-1.34	-0.04	0	0	0	0	0	0
6/12/2024 19:43	40502	CRES_T2	7	14	7	0.2	0.27	0.07	-0.63	-0.66	0	0	0	0	0	0
6/12/2024 19:54	10705	CATA_T2	0	0	0	0	0	0	-0.4	-0.41	1	1	0	900	900	0
6/12/2024 19:59	62605	ENGL_T1	0	0	0	0	0	0	-0.95	-0.97	0	0	0	0	0	0
6/12/2024 19:59	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 20:00	46801	HEPB_T2	10	22	12	0.2	0.23	0.03	0	0	0	0	0	0	0	0
6/12/2024 20:00	46803	HEPB_T2	1	8	7	0.2	0.15	-0.05	0.6	0.59	0	0	0	0	0	0
6/12/2024 20:07	46004	BERW_T2	0	1	1	0	0	0	0.48	0.47	0	0	0	0	0	0
6/12/2024 20:07	66504	SMAN_T2	0	0	0	0	0	0	0.58	-2.09	0	2	2	0	2400	2400
6/12/2024 20:08	43301	WATS_T2	0	1	1	0	0	0	0.56	0.54	0	0	0	0	0	0
6/12/2024 20:08	43304	WATS_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 20:08	43302	WATS_T2	4	4	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
6/12/2024 20:08	61102	BERK_T5	0	0	0	0	0	0	0.49	1.07	1	1	0	300	300	0
6/12/2024 20:10	67603	WARW_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
6/12/2024 20:11	43302	WATS_T2	4	4	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
6/12/2024 20:11	43304	WATS_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 20:11	43301	WATS_T2	0	1	1	0	0	0	0.56	0.54	0	0	0	0	0	0
6/12/2024 20:12	29401	BELT_T1	6	32	26	0.15	0.18	0.03	0	0	1	1	0	900	900	0
6/12/2024 20:12	29402	BELT_T1	1	1	0	7.3	7.4	0.1	0	0	0	0	0	0	0	0
6/12/2024 20:14	43304	WATS_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 20:14	43301	WATS_T2	0	1	1	0	0	0	0.56	0.54	0	0	0	0	0	0
6/12/2024 20:14	43302	WATS_T2	4	4	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
6/12/2024 20:31	48901	FOSP_T2	0	0	0	0	0	0	-0.39	-0.39	1	1	0	600	600	0
6/12/2024 20:33	20601	GRWO_T2	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
6/12/2024 20:35	48901	FOSP_T2	0	0	0	0	0	0	-0.39	-0.39	1	1	0	600	600	0
6/12/2024 20:38	51101	CARL_T1	1	1	0	5.4	5.3	-0.1	-1.2	-1.23	1	1	0	600	600	0
6/12/2024 20:40	45602	WOOL_T1	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
6/12/2024 20:41	45602	WOOL_T1	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
6/12/2024 20:44	45602	WOOL_T1	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
6/12/2024 20:47	46001	BERW_T1	0	0	0	0	0	0	0.86	0.84	0	0	0	0	0	0
6/12/2024 20:54	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/12/2024 20:55	56801	BENV_T1	27	35	8	0.35	0.45	0.1	-0.54	-0.55	1	1	0	600	600	0
6/12/2024 21:16	45702	LIND_T2	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
6/12/2024 21:18	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/12/2024 21:19	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/12/2024 21:21	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/12/2024 21:21	45702	LIND_T2	0	0	0	0	0	0	-0.38	-0.34	0	0	0	0	0	0
6/12/2024 21:23	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/12/2024 21:25	56501	ROCK_T2	3	0	0	3.13	2.93	-0.2	0.16	0.28	0	0	0	0	0	0
6/12/2024 21:28	51108	CARL_T1	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
6/12/2024 21:28	51101	CARL_T1	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
6/12/2024 21:28	51102	CARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/12/2024 21:40	44301	BEAV_T2	0	0	0	0	0	0	0.49	0.49	1	1	0	600	600	0
6/12/2024 21:43	44301	BEAV_T2	0	0	0	0	0	0	0.49	0.49	1	1	0	600	600	0
6/12/2024 21:44	44301	BEAV_T2	0	0	0	0	0	0	0.49	0.49	1	1	0	600	600	0
6/12/2024 21:45	46801	HEPB_T2	2	2	0	0.4	0.7	0.3	0.79	0.77	0	0	0	0	0	0
6/12/2024 21:46	63501	HEID_TBK1-2	0	1	1	0	0.2	0.2	0.58	0.54	0	0	0	0	0	0
6/12/2024 21:47	46802	HEPB_T1	1	2	1	0.6	0.6	0	-0.12	-0.14	0	0	0	0	0	0
6/12/2024 21:49	46801	HEPB_T2	2	2	0	0.4	0.7	0.3	0.79	0.77	0	0	0	0	0	0
6/12/2024 21:51	44702	MUNC_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/12/2024 21:51	57001	WHHI_T2	0	0	0	0	0	0	-0.1	-0.11	1	1	0	900	900	0
6/12/2024 21:51	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 21:51	44701	MUNC_T2	1	5	4	0.1	0.18	0.08	0	0	0	0	0	0	0	0
6/12/2024 21:51	44703	MUNC_T2	2	2	0	0.5	0.8	0.3	0.84	0.8	0	0	0	0	0	0
6/12/2024 21:52	46801	HEPB_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/12/2024 21:52	46803	HEPB_T2	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
6/12/2024 21:55	41901	REED_T1	9	8	-1	0.36	0.39	0.03	0	0	0	0	0	0	0	0
6/12/2024 21:55	41902	REED_T1	0	0	0	0	0	0	2.33	2.3	0	0	0	0	0	0
6/12/2024 21:58	63401	HONY_T1	0	0	0	0	0	0	0.73	0.67	0	0	0	0	0	0
6/12/2024 21:58	60102	COCA_T1	0	0	0	0	0	0	0.93	0.77	2	2	0	1200	1200	0
6/12/2024 22:00	63501	HEID_TBK1-2	1	0	-1	0.2	0	-0.2	0.54	0.61	0	0	0	0	0	0
6/12/2024 22:05	57006	WHHI_T2	1	0	-1	0.1	0	-0.1	1.03	1	0	0	0	0	0	0
6/12/2024 22:08	14603	SWHI_T1	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
6/12/2024 22:16	61701	ELIZ_T1	1	1	0	3.7	4	0.3	0.49	0.44	0	0	0	0	0	0
6/12/2024 22:17	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:17	46004	BERW_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
6/12/2024 22:22	56802	BENV_T2	23	47	24	0.13	0.15	0.02	-1.33	-1.26	0	0	0	0	0	0
6/12/2024 22:22	12606	MACA_T1	0	0	0	0	0	0	-0.09	-0.11	1	1	0	900	900	0
6/12/2024 22:22	14201	EALL_T1	0	0	0	0	0	0	0.73	0.8	0	0	0	0	0	0
6/12/2024 22:22	10602	BLGL_T2	0	0	0	0	0	0	0.29	0.18	0	0	0	0	0	0
6/12/2024 22:23	16401	MOPO_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
6/12/2024 22:25	22001	BOHE_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
6/12/2024 22:25	22003	BOHE_T1	1	3	2	1.5	0.6	-0.9	0	0	0	0	0	0	0	0
6/12/2024 22:26	62605	ENGL_T1	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
6/12/2024 22:28	27201	YATE_T1	0	0	0	0	0	0	-0.83	-0.88	0	0	0	0	0	0
6/12/2024 22:28	51002	NHAR_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
6/12/2024 22:28	51004	NHAR_T1	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
6/12/2024 22:29	54203	PENN_T1	5	18	13	0.76	0.56	-0.2	0	0	0	0	0	0	0	0
6/12/2024 22:29	54201	PENN_T1	3	5	2	1.13	1.2	0.07	-0.75	-0.77	0	0	0	0	0	0
6/12/2024 22:29	17002	RIRO_T2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
6/12/2024 22:30	56802	BENV_T2	47	4	-43	0.14	0.38	0.24	-1.33	-1.26	0	0	0	0	0	0
6/12/2024 22:30	60305	TWVA_T2	0	0	0	0	0	0	1.06	1.05	0	0	0	0	0	0
6/12/2024 22:31	25404	LAHA_T2	327	351	24	0.14	0.14	0	0	0	0	0	0	0	0	0
6/12/2024 22:31	15702	TANN_T2	50	125	75	0.19	0.25	0.06	-0.37	-0.39	0	0	0	0	0	0
6/12/2024 22:31	67503	WEWI_T2	0	0	0	0	0	0	0.09	0.03	0	0	0	0	0	0
6/12/2024 22:31	23202	HIRU_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
6/12/2024 22:31	15703	TANN_T2	5	6	1	1.06	0.92	-0.14	0	0	0	0	0	0	0	0
6/12/2024 22:31	65001	NEFF_T2	0	0	0	0	0	0	-0.74	-0.79	1	1	0	1200	1200	0
6/12/2024 22:31	25402	LAHA_T2	4	8	4	0.13	0.11	-0.02	-1.67	-1.68	0	0	0	0	0	0
6/12/2024 22:32	48302	ORWI_T2	2	2	0	0.8	0.9	0.1	0.03	0.02	0	0	0	0	0	0
6/12/2024 22:32	64901	MILL_T1	49	0	-49	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/12/2024 22:32	10102	ALLE_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
6/12/2024 22:32	58006	WCAR_T2	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
6/12/2024 22:32	67605	WARW_T1	0	13	13	0	0.27	0.27	0	0	0	0	0	0	0	0
6/12/2024 22:32	10805	CHHI_T2	1	1	0	7.7	7.6	-0.1	-0.95	-0.97	1	1	0	600	600	0
6/12/2024 22:32	67502	WEWI_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
6/12/2024 22:32	64904	MILL_T1	9	0	-9	0.18	0	-0.18	-0.18	-0.22	0	0	0	0	0	0
6/12/2024 22:32	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:32	13501	MCMI_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
6/12/2024 22:32	13502	MCMI_T1	2	15	13	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/12/2024 22:32	65503	MOJO_T2	0	0	0	0	0	0	-1.07	-1.09	1	1	0	900	900	0
6/12/2024 22:32	67603	WARW_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
6/12/2024 22:32	11103	EGYP_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
6/12/2024 22:32	20401	ASHF_T2	0	2	2	0	0.25	0.25	-0.16	-0.24	0	0	0	0	0	0
6/12/2024 22:32	61701	ELIZ_T1	1	1	0	3.8	4	0.2	0.44	0.47	0	0	0	0	0	0
6/12/2024 22:33	55101	WERT_T1	0	0	0	0	0	0	-1.54	-1.54	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/12/2024 22:33	63202	MGTN_T2	0	0	0	0	0	0	-0.09	-0.11	1	1	0	900	900	0
6/12/2024 22:33	52002	LING_T2	0	0	0	0	0	0	0.26	0.18	0	0	0	0	0	0
6/12/2024 22:33	67502	WEWI_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
6/12/2024 22:33	13303	ORVI_T1	0	0	0	0	0	0	0.97	1	0	0	0	0	0	0
6/12/2024 22:33	67503	WEWI_T2	0	0	0	0	0	0	0.09	0.03	0	0	0	0	0	0
6/12/2024 22:33	56801	BENV_T1	7	18	11	0.67	0.83	0.16	-0.64	-0.66	1	1	0	600	600	0
6/12/2024 22:33	12701	MACU_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
6/12/2024 22:34	60803	BUCK_T1	14	11	-3	0.36	0.17	-0.19	-1.09	-1.09	1	1	0	600	600	0
6/12/2024 22:34	57006	WHHI_T2	0	0	0	0	0	0	0.97	0.93	0	0	0	0	0	0
6/12/2024 22:34	66504	SMAN_T2	0	0	0	0	0	0	-0.19	-0.29	0	0	0	0	0	0
6/12/2024 22:34	16103	BING_T2	0	0	0	0	0	0	-1.34	-1.36	1	1	0	900	900	0
6/12/2024 22:34	67805	WLAN_T1	306	0	-306	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/12/2024 22:34	11103	EGYP_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
6/12/2024 22:34	66503	SMAN_T2	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
6/12/2024 22:34	67803	WLAN_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
6/12/2024 22:34	60801	BUCK_T1	20	6	-14	0.18	0.12	-0.06	0	0	0	0	0	0	0	0
6/12/2024 22:34	29402	BELT_T1	1	1	0	8	8	0	0	0	0	0	0	0	0	0
6/12/2024 22:34	60101	COCA_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
6/12/2024 22:34	54203	PENN_T1	5	18	13	0.74	0.56	-0.18	0	0	0	0	0	0	0	0
6/12/2024 22:34	67802	WLAN_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 22:34	67502	WEWI_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
6/12/2024 22:34	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	1	1	0	900	900	0
6/12/2024 22:34	54201	PENN_T1	3	4	1	1.27	1.2	-0.07	-0.75	-0.77	0	0	0	0	0	0
6/12/2024 22:34	47401	PENS_T1	0	0	0	0	0	0	1.13	1.09	0	0	0	0	0	0
6/12/2024 22:34	48302	ORWI_T2	2	2	0	0.8	0.9	0.1	0.03	0.02	0	0	0	0	0	0
6/12/2024 22:34	50701	SMEC_T1	0	0	0	0	0	0	0.15	0.14	1	1	0	900	900	0
6/12/2024 22:34	16302	ALPA_T2	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
6/12/2024 22:34	10801	CHHI_T1	0	0	0	0	0	0	-1.22	-1.24	2	2	0	1500	1500	0
6/12/2024 22:35	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
6/12/2024 22:35	10805	CHHI_T2	1	1	0	7.7	7.6	-0.1	-0.95	-0.97	1	1	0	600	600	0
6/12/2024 22:35	14203	EALL_T1	0	0	0	0	0	0	-0.17	-0.18	1	1	0	1200	1200	0
6/12/2024 22:35	65603	QVIL_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
6/12/2024 22:35	12206	FOGE_T2	0	0	0	0	0	0	-0.46	-0.49	2	2	0	2100	2100	0
6/12/2024 22:35	67804	WLAN_T1	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
6/12/2024 22:35	60803	BUCK_T1	14	11	-3	0.36	0.17	-0.19	0	0	0	0	0	0	0	0
6/12/2024 22:35	67805	WLAN_T1	306	0	-306	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/12/2024 22:35	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/12/2024 22:35	52404	GRPA_T2	1	1	0	0.2	0.6	0.4	-0.24	-0.27	0	0	0	0	0	0
6/12/2024 22:35	52402	GRPA_T2	3	4	1	0.33	0.63	0.3	0	0	0	0	0	0	0	0
6/12/2024 22:35	55003	NEWP_T2	7	13	6	0.26	0.35	0.09	-0.82	-0.83	1	1	0	600	600	0
6/12/2024 22:35	16102	BING_T2	0	0	0	0	0	0	1.05	1.02	0	0	0	0	0	0
6/12/2024 22:35	60101	COCA_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
6/12/2024 22:35	64701	LITI_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
6/12/2024 22:35	67802	WLAN_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 22:35	60801	BUCK_T1	20	6	-14	0.18	0.12	-0.06	-0.16	-0.17	0	0	0	0	0	0
6/12/2024 22:35	52004	LING_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
6/12/2024 22:36	64202	KINZ_T1	1	3	2	0.2	0.53	0.33	0	0	0	0	0	0	0	0
6/12/2024 22:36	52004	LING_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
6/12/2024 22:36	21206	ECAR_T2	1	1	0	8	8.4	0.4	-0.08	-0.09	0	0	0	0	0	0
6/12/2024 22:36	56801	BENV_T1	7	18	11	0.67	0.83	0.16	-1.28	-1.32	2	2	0	1200	1200	0
6/12/2024 22:36	29402	BELT_T1	1	1	0	8	8	0	0	0	0	0	0	0	0	0
6/12/2024 22:36	54203	PENN_T1	5	18	13	0.74	0.56	-0.18	0.29	0.28	0	0	0	0	0	0
6/12/2024 22:36	66504	SMAN_T2	0	0	0	0	0	0	-0.87	-0.96	0	0	0	0	0	0
6/12/2024 22:36	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	1	1	0	900	900	0
6/12/2024 22:36	60803	BUCK_T1	14	11	-3	0.36	0.17	-0.19	0	0	0	0	0	0	0	0
6/12/2024 22:36	21204	ECAR_T2	1	1	0	0	0.4	0.4	0	0	0	0	0	0	0	0
6/12/2024 22:36	60801	BUCK_T1	20	6	-14	0.18	0.12	-0.06	-0.17	-0.18	0	0	0	0	0	0
6/12/2024 22:36	12801	MICK_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	600	600	0
6/12/2024 22:36	20403	ASHF_T2	0	0	0	0	0	0	0.29	0.25	0	0	0	0	0	0
6/12/2024 22:36	12807	MICK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/12/2024 22:36	67803	WLAN_T1	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
6/12/2024 22:36	63501	HEID_TBK1-2	0	0	0	0	0	0	0.46	0.52	0	0	0	0	0	0
6/12/2024 22:36	56802	BENV_T2	47	4	-43	0.14	0.38	0.24	-1.33	-1.26	0	0	0	0	0	0
6/12/2024 22:36	12803	MICK_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/12/2024 22:36	64902	MILL_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	900	900	0
6/12/2024 22:36	24105	EHAZ_T1	4	4	0	5.68	5.6	-0.08	0	0	0	0	0	0	0	0
6/12/2024 22:36	64204	KINZ_T1	10	17	7	0.18	0.22	0.04	0	0	0	0	0	0	0	0
6/12/2024 22:36	67502	WEWI_T2	0	0	0	0	0	0	-0.3	-0.34	0	0	0	0	0	0
6/12/2024 22:36	55002	NEWP_T1	2	2	0	0.45	0.55	0.1	-0.39	-0.4	0	0	0	0	0	0
6/12/2024 22:36	58001	WCAR_T1	4	4	0	0.68	1.15	0.47	0	0	0	0	0	0	0	0
6/12/2024 22:36	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
6/12/2024 22:36	67805	WLAN_T1	306	0	-306	0.2	0	-0.2	-1.3	-1.31	0	0	0	0	0	0
6/12/2024 22:36	13502	MCMI_T1	2	15	13	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/12/2024 22:36	54201	PENN_T1	3	4	1	1.27	1.2	-0.07	0	0	0	0	0	0	0	0
6/12/2024 22:36	13501	MCMI_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
6/12/2024 22:36	67802	WLAN_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 22:36	20401	ASHF_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/12/2024 22:36	58003	WCAR_T1	1	1	0	1.4	1.5	0.1	0.75	0.65	0	0	0	0	0	0
6/12/2024 22:36	67605	WARW_T1	0	13	13	0	0.27	0.27	-0.97	-1	0	0	0	0	0	0
6/12/2024 22:36	60101	COCA_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
6/12/2024 22:36	24501	GOUL_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
6/12/2024 22:36	56501	ROCK_T2	1	3	2	5.3	2.13	-3.17	0.19	-1.14	0	0	0	0	0	0
6/12/2024 22:36	64201	KINZ_T1	5	6	1	0.38	0.4	0.02	0.56	0.53	1	1	0	300	300	0
6/12/2024 22:36	24103	EHAZ_T1	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
6/12/2024 22:37	67602	WARW_T2	0	0	0	0	0	0	0.12	0.12	1	1	0	1200	1200	0
6/12/2024 22:37	63305	GREE_T1	1	0	-1	0.2	0	-0.2	-1.06	-1.13	0	0	0	0	0	0
6/12/2024 22:37	57101	SPHI_T2	6	6	0	0.2	0.22	0.02	0	0	0	0	0	0	0	0
6/12/2024 22:37	16302	ALPA_T2	0	0	0	0	0	0	0.81	0.79	0	0	0	0	0	0
6/12/2024 22:37	42903	MIDD_T2	0	0	0	0	0	0	-0.15	-0.06	0	0	0	0	0	0
6/12/2024 22:37	23203	HIRU_T2	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
6/12/2024 22:37	52002	LING_T2	0	0	0	0	0	0	0.18	0.11	0	0	0	0	0	0
6/12/2024 22:37	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:37	57104	SPHI_T2	1	1	0	1.5	1.4	-0.1	-0.8	-0.82	0	0	0	0	0	0
6/12/2024 22:37	67605	WARW_T1	0	13	13	0	0.27	0.27	-0.97	-1	0	0	0	0	0	0
6/12/2024 22:37	57106	SPHI_T2	3	3	0	1.47	1.97	0.5	0	0	0	0	0	0	0	0
6/12/2024 22:37	47002	HUGH_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/12/2024 22:37	13905	SEID_T1	0	0	0	0	0	0	-0.89	-0.91	1	1	0	1200	1200	0
6/12/2024 22:37	63304	GREE_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 22:37	67804	WLAN_T1	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
6/12/2024 22:37	67805	WLAN_T1	306	0	-306	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/12/2024 22:37	47001	HUGH_T2	0	0	0	0	0	0	-0.21	-0.25	0	0	0	0	0	0
6/12/2024 22:37	57004	WHHI_T2	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
6/12/2024 22:37	10102	ALLE_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
6/12/2024 22:37	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:37	67802	WLAN_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 22:38	61701	ELIZ_T1	1	1	0	3.8	4	0.2	0.47	0.39	0	0	0	0	0	0
6/12/2024 22:38	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	1	1	0	900	900	0
6/12/2024 22:38	64902	MILL_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	900	900	0
6/12/2024 22:38	66504	SMAN_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
6/12/2024 22:38	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:38	29402	BELT_T1	1	1	0	8	8	0	0	0	0	0	0	0	0	0
6/12/2024 22:38	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
6/12/2024 22:38	67502	WEWI_T2	0	0	0	0	0	0	-0.3	-0.34	0	0	0	0	0	0
6/12/2024 22:38	42902	MIDD_T2	0	0	0	0	0	0	-0.38	-0.42	0	0	0	0	0	0
6/12/2024 22:38	55002	NEWP_T1	2	2	0	0.45	0.55	0.1	-0.2	-0.21	0	0	0	0	0	0
6/12/2024 22:38	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:38	59302	MCAL_T1	0	1	1	0	0.1	0.1	-0.25	-0.26	1	1	0	600	600	0
6/12/2024 22:38	60101	COCA_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
6/12/2024 22:38	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:38	56802	BENV_T2	47	4	-43	0.14	0.38	0.24	-1.26	-1.27	0	0	0	0	0	0
6/12/2024 22:38	57004	WHHI_T2	0	0	0	0	0	0	-1.04	-1.07	0	0	0	0	0	0
6/12/2024 22:38	13503	MCMI_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
6/12/2024 22:38	10805	CHHI_T2	1	1	0	7.7	7.6	-0.1	-0.97	-0.97	1	1	0	600	600	0
6/12/2024 22:38	59301	MCAL_T1	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
6/12/2024 22:38	14404	SSLA_T1	1	1	0	5	5.4	0.4	0.08	0.07	0	0	0	0	0	0
6/12/2024 22:38	56501	ROCK_T2	1	3	2	5.3	2.13	-3.17	-1.14	-1.16	0	0	0	0	0	0
6/12/2024 22:38	67503	WEWI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
6/12/2024 22:38	56801	BENV_T1	7	18	11	0.67	0.83	0.16	-0.66	-0.68	1	1	0	600	600	0
6/12/2024 22:38	10102	ALLE_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
6/12/2024 22:38	66902	SHIL_T2	101	258	157	0.15	0.25	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:39	56801	BENV_T1	7	18	11	0.67	0.83	0.16	-0.66	-0.68	1	1	0	600	600	0
6/12/2024 22:39	15702	TANN_T2	50	125	75	0.19	0.25	0.06	-0.39	-0.41	0	0	0	0	0	0
6/12/2024 22:39	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:39	53501	EVIL_T2	2	2	0	0.7	1.15	0.45	-0.73	-0.79	1	1	0	600	600	0
6/12/2024 22:39	54505	ENOL_T2	0	0	0	0	0	0	-1.1	-1.12	1	1	0	600	600	0
6/12/2024 22:39	66903	SHIL_T2	52	82	30	0.13	0.21	0.08	0	0	0	0	0	0	0	0
6/12/2024 22:39	23403	HONE_T1	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
6/12/2024 22:39	50502	MECH_T1	1	1	0	1.5	2	0.5	0	0	0	0	0	0	0	0
6/12/2024 22:39	43802	SWIL_T1	1	0	-1	0.1	0	-0.1	0.01	0	1	1	0	600	600	0
6/12/2024 22:39	66703	STRA_T1	5	4	-1	0.48	0.28	-0.2	-0.22	-0.26	0	0	0	0	0	0
6/12/2024 22:39	63401	HONY_T1	0	0	0	0	0	0	0.7	0.66	0	0	0	0	0	0
6/12/2024 22:39	56802	BENV_T2	47	4	-43	0.14	0.38	0.24	-2.52	-2.55	0	0	0	0	0	0
6/12/2024 22:39	66504	SMAN_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
6/12/2024 22:39	46301	ROHR_T1	280	302	22	0.57	0.68	0.11	0.21	0.2	0	0	0	0	0	0
6/12/2024 22:39	14204	EALL_T2	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
6/12/2024 22:39	46302	ROHR_T1	100	171	71	0.31	0.39	0.08	0	0	0	0	0	0	0	0
6/12/2024 22:39	60501	NMAN_T2	3	3	0	4.37	4.8	0.43	0	0	0	0	0	0	0	0
6/12/2024 22:39	60502	NMAN_T2	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
6/12/2024 22:39	55002	NEWP_T1	2	2	0	0.45	0.55	0.1	-0.2	-0.21	0	0	0	0	0	0
6/12/2024 22:39	67502	WEWI_T2	0	0	0	0	0	0	-0.3	-0.34	0	0	0	0	0	0
6/12/2024 22:39	50501	MECH_T1	4	4	0	1	0.8	-0.2	-1.31	0.08	0	0	0	0	0	0
6/12/2024 22:39	23901	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:39	56803	BENV_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
6/12/2024 22:39	66901	SHIL_T2	200	259	59	0.18	0.31	0.13	-0.11	-0.12	0	0	0	0	0	0
6/12/2024 22:39	51101	CARL_T1	1	1	0	5.5	5.3	-0.2	-1.35	-1.36	1	1	0	600	600	0
6/12/2024 22:39	67303	WYOM_T2	0	0	0	0	0	0	-1.32	-1.36	0	0	0	0	0	0
6/12/2024 22:39	61501	EPET_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
6/12/2024 22:39	50701	SMEC_T1	0	0	0	0	0	0	0.14	0.12	1	1	0	900	900	0
6/12/2024 22:39	67505	WEWI_T1	0	0	0	0	0	0	0.03	0	1	1	0	900	900	0
6/12/2024 22:39	15703	TANN_T2	5	6	1	1.06	0.92	-0.14	0	0	0	0	0	0	0	0
6/12/2024 22:39	43801	SWIL_T1	47	2	-45	0.34	3.3	2.96	0	0	0	0	0	0	0	0
6/12/2024 22:39	50505	MECH_T1	0	0	0	0	0	0	-2.12	-2.12	0	0	0	0	0	0
6/12/2024 22:39	61506	EPET_T2	0	0	0	0	0	0	-1.02	-1.03	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/12/2024 22:40	67802	WLAN_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 22:40	52402	GRPA_T2	3	4	1	0.33	0.63	0.3	-0.79	-0.75	0	0	0	0	0	0
6/12/2024 22:40	67803	WLAN_T1	0	0	0	0	0	0	-1.32	-1.35	0	0	0	0	0	0
6/12/2024 22:40	14801	TREI_T2	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
6/12/2024 22:40	14205	EALL_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
6/12/2024 22:40	52404	GRPA_T2	1	1	0	0.2	0.6	0.4	-0.27	-0.29	0	0	0	0	0	0
6/12/2024 22:40	67503	WEWI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
6/12/2024 22:40	63304	GREE_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 22:40	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:40	22003	BOHE_T1	1	4	3	1.5	0.48	-1.02	0	0	0	0	0	0	0	0
6/12/2024 22:40	25503	MADI_T1	145	103	-42	0.46	0.33	-0.13	-0.94	-0.95	0	0	0	0	0	0
6/12/2024 22:40	63305	GREE_T1	1	0	-1	0.2	0	-0.2	-1.06	-1.13	0	0	0	0	0	0
6/12/2024 22:40	14401	SSLA_T1	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
6/12/2024 22:40	12006	HATF_T1	0	0	0	0	0	0	0.32	0.26	1	1	0	1200	1200	0
6/12/2024 22:40	66902	SHIL_T2	101	258	157	0.15	0.25	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:40	56504	ROCK_T2	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
6/12/2024 22:40	59002	MIFF_T1	6	6	0	0.85	0.98	0.13	0	0	0	0	0	0	0	0
6/12/2024 22:40	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 22:40	24603	VARD_T2	15	44	29	0.34	0.27	-0.07	-0.19	-0.21	0	0	0	0	0	0
6/12/2024 22:40	55101	WERT_T1	0	0	0	0	0	0	-3.09	-3.09	4	4	0	3600	3600	0
6/12/2024 22:40	67203	TEHI_T1	0	0	0	0	0	0	2.14	2.21	2	2	0	1500	1500	0
6/12/2024 22:40	60801	BUCK_T1	20	6	-14	0.18	0.12	-0.06	-0.17	-0.18	0	0	0	0	0	0
6/12/2024 22:40	66504	SMAN_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
6/12/2024 22:40	66901	SHIL_T2	200	259	59	0.18	0.31	0.13	0	0	0	0	0	0	0	0
6/12/2024 22:40	58001	WCAR_T1	4	4	0	0.68	1.15	0.47	0	0	0	0	0	0	0	0
6/12/2024 22:40	52401	GRPA_T2	0	1	1	0	0.5	0.5	-0.39	-0.4	0	0	0	0	0	0
6/12/2024 22:40	16301	ALPA_T1	45	61	16	0.15	0.19	0.04	-0.21	-0.25	0	0	0	0	0	0
6/12/2024 22:40	58003	WCAR_T1	1	0	-1	1.4	1.5	0.1	0.65	0.64	0	0	0	0	0	0
6/12/2024 22:40	67805	WLAN_T1	306	0	-306	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/12/2024 22:40	56802	BENV_T2	47	4	-43	0.14	0.38	0.24	-1.26	-1.27	0	0	0	0	0	0
6/12/2024 22:40	58402	MORO_T1	0	0	0	0	0	0	-1.1	-1.22	3	3	0	2400	2400	0
6/12/2024 22:40	66903	SHIL_T2	52	82	30	0.13	0.21	0.08	-0.75	-0.76	0	0	0	0	0	0
6/12/2024 22:40	60803	BUCK_T1	14	11	-3	0.36	0.17	-0.19	-1.09	-1.1	1	1	0	600	600	0
6/12/2024 22:40	29402	BELT_T1	1	1	0	8	8	0	0	0	0	0	0	0	0	0
6/12/2024 22:40	22002	BOHE_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
6/12/2024 22:40	10805	CHHI_T2	1	1	0	7.7	7.6	-0.1	-0.97	-0.97	1	1	0	600	600	0
6/12/2024 22:40	63401	HONY_T1	0	0	0	0	0	0	0.7	0.66	0	0	0	0	0	0
6/12/2024 22:40	59003	MIFF_T1	1	1	0	0.9	1.2	0.3	0.1	-0.55	0	0	0	0	0	0
6/12/2024 22:40	60102	COCA_T1	0	0	0	0	0	0	1.14	0.94	2	2	0	1200	1200	0
6/12/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	0.15	0.1	0	0	0	0	0	0
6/12/2024 22:40	26402	INOR_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
6/12/2024 22:40	56501	ROCK_T2	1	3	2	5.3	2.13	-3.17	-1.14	-1.16	0	0	0	0	0	0
6/12/2024 22:40	24602	VARD_T2	711	825	114	0.79	1.02	0.23	0	0	0	0	0	0	0	0
6/12/2024 22:40	44601	SALE_T2	1	1	0	0.5	0.5	0	-0.06	-0.07	0	0	0	0	0	0
6/12/2024 22:40	14404	SSLA_T1	1	1	0	5	5.4	0.4	0	0	0	0	0	0	0	0
6/12/2024 22:41	64503	LAVI_T1	0	0	0	0	0	0	-0.27	-0.3	1	1	0	1200	1200	0
6/12/2024 22:41	60803	BUCK_T1	14	11	-3	0.36	0.17	-0.19	0	0	0	0	0	0	0	0
6/12/2024 22:41	24105	EHAZ_T1	4	4	0	5.68	5.6	-0.08	0	0	0	0	0	0	0	0
6/12/2024 22:41	11102	EGYP_T1	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
6/12/2024 22:41	57304	MOAL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/12/2024 22:41	53903	HALI_T2	2	2	0	0.85	1	0.15	-0.1	-0.11	0	0	0	0	0	0
6/12/2024 22:41	46001	BERW_T1	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
6/12/2024 22:41	12701	MACU_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
6/12/2024 22:41	10805	CHHI_T2	1	1	0	7.7	7.6	-0.1	-1.95	-1.95	2	2	0	1200	1200	0
6/12/2024 22:41	53902	HALI_T2	1	1	0	4.9	5.5	0.6	0	0	0	0	0	0	0	0
6/12/2024 22:41	57303	MOAL_T2	1	1	0	8.1	7.6	-0.5	0	0	0	0	0	0	0	0
6/12/2024 22:41	12206	FOGE_T2	0	0	0	0	0	0	-0.49	-0.55	2	2	0	2100	2100	0
6/12/2024 22:41	47802	MOCA_T2	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
6/12/2024 22:41	43302	WATS_T2	4	1	-3	0.75	0.1	-0.65	0	0	0	0	0	0	0	0
6/12/2024 22:41	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:41	50506	MECH_T1	0	0	0	0	0	0	0.13	0.04	0	0	0	0	0	0
6/12/2024 22:41	57302	MOAL_T2	0	0	0	0	0	0	-1.44	-1.49	1	1	0	1200	1200	0
6/12/2024 22:41	66502	SMAN_T2	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
6/12/2024 22:41	65901	SAKR_T2	1	1	0	8	8.7	0.7	-0.99	-1	1	1	0	900	900	0
6/12/2024 22:41	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
6/12/2024 22:41	14404	SSLA_T1	1	1	0	5	5.4	0.4	0.23	0.22	0	0	0	0	0	0
6/12/2024 22:41	46506	LOHA_T1	1	1	0	0.9	0.5	-0.4	-0.36	-0.37	0	0	0	0	0	0
6/12/2024 22:41	50502	MECH_T1	1	1	0	1.5	2	0.5	0	0	0	0	0	0	0	0
6/12/2024 22:41	57101	SPHI_T2	6	6	0	0.2	0.22	0.02	0	0	0	0	0	0	0	0
6/12/2024 22:41	52004	LING_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
6/12/2024 22:41	42902	MIDD_T2	0	0	0	0	0	0	-0.76	-0.85	0	0	0	0	0	0
6/12/2024 22:41	62102	ELAN_T1	0	0	0	0	0	0	1.03	0.91	0	0	0	0	0	0
6/12/2024 22:41	50501	MECH_T1	4	4	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/12/2024 22:41	60801	BUCK_T1	20	6	-14	0.18	0.12	-0.06	-0.17	-0.18	0	0	0	0	0	0
6/12/2024 22:41	45501	DERR_T2	1	1	0	0.2	0.4	0.2	0.09	-0.02	2	2	0	1800	1800	0
6/12/2024 22:41	23001	SAJO_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
6/12/2024 22:41	46504	LOHA_T1	41	2	-39	0.38	0.95	0.57	0	0	0	0	0	0	0	0
6/12/2024 22:41	56802	BENV_T2	47	4	-43	0.14	0.38	0.24	-6.3	-6.37	0	0	0	0	0	0
6/12/2024 22:41	57106	SPHI_T2	3	0	-3	1.47	1.97	0.5	0	0	0	0	0	0	0	0
6/12/2024 22:41	57104	SPHI_T2	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
6/12/2024 22:41	43301	WATS_T2	1	0	-1	0.3	0	-0.3	0.39	0.37	0	0	0	0	0	0
6/12/2024 22:41	67602	WARW_T2	0	0	0	0	0	0	0.12	0.12	1	1	0	1200	1200	0
6/12/2024 22:41	57103	SPHI_T2	0	0	0	0	0	0	-1.49	-1.5	0	0	0	0	0	0
6/12/2024 22:41	67505	WEWI_T1	0	0	0	0	0	0	0.03	0	1	1	0	900	900	0
6/12/2024 22:41	63804	HEMP_T1	1	1	0	5.4	5.2	-0.2	-0.22	-0.23	0	0	0	0	0	0
6/12/2024 22:41	24102	EHAZ_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
6/12/2024 22:41	55002	NEWP_T1	2	2	0	0.45	0.55	0.1	-0.2	-0.21	0	0	0	0	0	0
6/12/2024 22:42	67605	WARW_T1	0	13	13	0	0.27	0.27	-1.95	-2.01	0	0	0	0	0	0
6/12/2024 22:42	52404	GRPA_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/12/2024 22:42	56501	ROCK_T2	1	3	2	5.3	2.13	-3.17	-2.27	-2.33	0	0	0	0	0	0
6/12/2024 22:42	66301	MCGO_T2	0	0	0	0	0	0	-1.6	-0.39	0	0	0	0	0	0
6/12/2024 22:42	42903	MIDD_T2	0	0	0	0	0	0	-0.15	-0.06	0	0	0	0	0	0
6/12/2024 22:42	52403	GRPA_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
6/12/2024 22:42	67503	WEWI_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/12/2024 22:42	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/12/2024 22:42	58003	WCAR_T1	1	1	0	1.4	1.5	0.1	0.65	0.64	0	0	0	0	0	0
6/12/2024 22:42	56802	BENV_T2	47	4	-43	0.14	0.38	0.24	-1.26	-1.27	0	0	0	0	0	0
6/12/2024 22:42	22003	BOHE_T1	1	4	3	1.5	0.48	-1.02	0	0	0	0	0	0	0	0
6/12/2024 22:42	60803	BUCK_T1	14	11	-3	0.36	0.17	-0.19	-1.09	-1.1	1	1	0	600	600	0
6/12/2024 22:42	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:42	58006	WCAR_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
6/12/2024 22:42	58001	WCAR_T1	4	4	0	0.68	1.15	0.47	0	0	0	0	0	0	0	0
6/12/2024 22:42	64101	REFR_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
6/12/2024 22:42	12601	MACA_T1	0	0	0	0	0	0	0.84	0.82	0	0	0	0	0	0
6/12/2024 22:42	14204	EALL_T2	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
6/12/2024 22:42	60101	COCA_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
6/12/2024 22:42	66502	SMAN_T2	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
6/12/2024 22:42	52402	GRPA_T2	3	4	1	0.33	0.63	0.3	0	0	0	0	0	0	0	0
6/12/2024 22:42	60801	BUCK_T1	20	6	-14	0.18	0.12	-0.06	0	0	0	0	0	0	0	0
6/12/2024 22:42	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/12/2024 22:42	66303	MCGO_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
6/12/2024 22:42	23203	HIRU_T2	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
6/12/2024 22:42	22001	BOHE_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
6/12/2024 22:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:43	55003	NEWP_T2	7	13	6	0.26	0.35	0.09	-0.83	-0.83	1	1	0	600	600	0
6/12/2024 22:43	60801	BUCK_T1	20	6	-14	0.18	0.12	-0.06	0	0	0	0	0	0	0	0
6/12/2024 22:43	47001	HUGH_T2	0	0	0	0	0	0	-0.21	-0.25	0	0	0	0	0	0
6/12/2024 22:43	67805	WLAN_T1	306	0	-306	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/12/2024 22:43	42001	MNVL_T2	1	0	-1	0.2	0	-0.2	0.17	0.14	0	0	0	0	0	0
6/12/2024 22:43	14404	SSLA_T1	1	1	0	5	5.4	0.4	0	0	0	0	0	0	0	0
6/12/2024 22:43	47002	HUGH_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/12/2024 22:43	58003	WCAR_T1	1	1	0	1.4	1.5	0.1	0.65	0.64	0	0	0	0	0	0
6/12/2024 22:43	14401	SSLA_T1	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
6/12/2024 22:43	67802	WLAN_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/12/2024 22:43	66505	SMAN_T2	0	0	0	0	0	0	0.5	0.38	1	1	0	900	900	0
6/12/2024 22:43	50501	MECH_T1	4	4	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/12/2024 22:43	61103	BERK_T5	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
6/12/2024 22:43	53601	DALM_T2	1	1	0	0.7	0.3	-0.4	0.3	0.64	0	0	0	0	0	0
6/12/2024 22:43	56802	BENV_T2	47	4	-43	0.14	0.38	0.24	-1.26	-1.27	0	0	0	0	0	0
6/12/2024 22:43	40601	PIGR_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
6/12/2024 22:43	50502	MECH_T1	1	1	0	1.5	2	0.5	0	0	0	0	0	0	0	0
6/12/2024 22:43	67602	WARW_T2	0	0	0	0	0	0	0.12	0.12	1	1	0	1200	1200	0
6/12/2024 22:43	67803	WLAN_T1	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
6/12/2024 22:43	54601	SUMM_T2	0	0	0	0	0	0	-1.73	-1.74	2	2	0	2100	2100	0
6/12/2024 22:43	50506	MECH_T1	0	0	0	0	0	0	0.26	0.07	0	0	0	0	0	0
6/12/2024 22:43	55002	NEWP_T1	2	2	0	0.45	0.55	0.1	-0.2	-0.21	0	0	0	0	0	0
6/12/2024 22:43	42002	MNVL_T2	2	1	-1	0.65	2	1.35	0	0	0	0	0	0	0	0
6/12/2024 22:43	64101	REFR_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
6/12/2024 22:43	21204	ECAR_T2	1	1	0	0	0.4	0.4	0	0	0	0	0	0	0	0
6/12/2024 22:43	53501	EVIL_T2	2	2	0	0.7	1.15	0.45	-0.73	-0.79	1	1	0	600	600	0
6/12/2024 22:43	24902	WHHA_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
6/12/2024 22:43	43202	MVIL_T2	150	183	33	0.71	1	0.29	0	0	0	0	0	0	0	0
6/12/2024 22:43	56801	BENV_T1	7	18	11	0.67	0.83	0.16	-0.66	-0.68	1	1	0	600	600	0
6/12/2024 22:43	56504	ROCK_T2	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
6/12/2024 22:43	21206	ECAR_T2	1	1	0	8	8.4	0.4	-0.09	-0.09	0	0	0	0	0	0
6/12/2024 22:43	60803	BUCK_T1	14	11	-3	0.36	0.17	-0.19	-1.09	-1.1	1	1	0	600	600	0
6/12/2024 22:43	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
6/12/2024 22:43	43201	MVIL_T2	2	2	0	0.15	0.2	0.05	-0.37	-0.37	0	0	0	0	0	0
6/12/2024 22:43	56501	ROCK_T2	1	3	2	5.3	2.13	-3.17	-1.14	-1.16	0	0	0	0	0	0
6/12/2024 22:43	58001	WCAR_T1	4	4	0	0.68	1.15	0.47	0	0	0	0	0	0	0	0
6/12/2024 22:43	58401	MORO_T1	0	0	0	0	0	0	-0.93	-0.95	1	1	0	600	600	0
6/12/2024 22:43	55101	WERT_T1	0	0	0	0	0	0	-1.54	-1.54	2	2	0	1800	1800	0
6/12/2024 22:44	14601	SWHI_T1	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
6/12/2024 22:44	12002	HATF_T1	0	0	0	0	0	0	-0.92	-1.02	0	0	0	0	0	0
6/12/2024 22:44	53902	HALI_T2	1	1	0	4.9	5.5	0.6	0	0	0	0	0	0	0	0
6/12/2024 22:44	53903	HALI_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
6/12/2024 22:44	60801	BUCK_T1	20	6	-14	0.18	0.12	-0.06	-0.17	-0.18	0	0	0	0	0	0
6/12/2024 22:44	64202	KINZ_T1	1	3	2	0.2	0.53	0.33	0	0	0	0	0	0	0	0
6/12/2024 22:44	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/12/2024 22:44	63304	GREE_T1	3	0	-3	0.1	0	-0.1	-1.72	-1.73	0	0	0	0	0	0
6/12/2024 22:44	52402	GRPA_T2	3	4	1	0.33	0.63	0.3	0	0	0	0	0	0	0	0
6/12/2024 22:44	42201	SHEN_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
6/12/2024 22:44	45501	DERR_T2	1	1	0	0.2	0.4	0.2	0.09	-0.02	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/12/2024 22:44	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
6/12/2024 22:44	10801	CHHI_T1	0	0	0	0	0	0	-1.24	-1.27	2	2	0	1500	1500	0
6/12/2024 22:44	46001	BERW_T1	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
6/12/2024 22:44	54504	ENOL_T2	0	0	0	0	0	0	-1.52	-1.61	1	1	0	600	600	0
6/12/2024 22:44	64203	KINZ_T1	0	0	0	0	0	0	0.49	0.38	0	0	0	0	0	0
6/12/2024 22:44	52404	GRPA_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/12/2024 22:44	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	2	2	0	1800	1800	0
6/12/2024 22:44	58001	WCAR_T1	4	4	0	0.68	1.15	0.47	0.74	0.73	0	0	0	0	0	0
6/12/2024 22:44	14602	SWHI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/12/2024 22:44	46504	LOHA_T1	41	2	-39	0.38	0.95	0.57	0	0	0	0	0	0	0	0
6/12/2024 22:44	46506	LOHA_T1	1	1	0	0.9	0.5	-0.4	-0.36	-0.37	0	0	0	0	0	0
6/12/2024 22:44	58003	WCAR_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:44	64204	KINZ_T1	10	17	7	0.18	0.22	0.04	0	0	0	0	0	0	0	0
6/12/2024 22:44	56802	BENV_T2	47	4	-43	0.14	0.38	0.24	-1.26	-1.27	0	0	0	0	0	0
6/12/2024 22:44	65503	MOJO_T2	0	0	0	0	0	0	-1.09	-0.18	1	0	-1	900	0	-900
6/12/2024 22:44	15703	TANN_T2	5	6	1	1.06	0.92	-0.14	0	0	0	0	0	0	0	0
6/12/2024 22:44	64101	REFR_T1	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
6/12/2024 22:44	60803	BUCK_T1	14	11	-3	0.36	0.17	-0.19	0	0	0	0	0	0	0	0
6/12/2024 22:44	67602	WARW_T2	0	0	0	0	0	0	0.25	0.24	2	2	0	2400	2400	0
6/12/2024 22:44	53501	EVIL_T2	2	2	0	0.7	1.15	0.45	-0.73	-0.79	1	1	0	600	600	0
6/12/2024 22:44	52002	LING_T2	0	0	0	0	0	0	0.18	0.11	0	0	0	0	0	0
6/12/2024 22:44	64201	KINZ_T1	5	6	1	0.38	0.4	0.02	0	0	0	0	0	0	0	0
6/12/2024 22:44	62601	ENGL_T1	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
6/12/2024 22:44	53901	HALI_T2	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
6/12/2024 22:44	66703	STRA_T1	5	4	-1	0.48	0.28	-0.2	-0.22	-0.26	0	0	0	0	0	0
6/12/2024 22:44	56801	BENV_T1	7	18	11	0.67	0.83	0.16	-0.66	-0.68	1	1	0	600	600	0
6/12/2024 22:44	63305	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/12/2024 22:44	58401	MORO_T1	0	0	0	0	0	0	-0.93	-0.95	1	1	0	600	600	0
6/12/2024 22:44	45502	DERR_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
6/12/2024 22:44	67502	WEWI_T2	0	0	0	0	0	0	-0.3	-0.34	0	0	0	0	0	0
6/12/2024 22:44	52401	GRPA_T2	0	1	1	0	0.5	0.5	-0.39	-0.4	0	0	0	0	0	0
6/12/2024 22:44	15702	TANN_T2	50	125	75	0.19	0.25	0.06	-0.39	-0.41	0	0	0	0	0	0
6/12/2024 22:44	29402	BELT_T1	1	1	0	8	8	0	0	0	0	0	0	0	0	0
6/12/2024 22:45	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:45	44301	BEAV_T2	0	0	0	0	0	0	0.68	0.48	1	1	0	600	600	0
6/12/2024 22:45	24105	EHAZ_T1	4	4	0	5.68	5.6	-0.08	0	0	0	0	0	0	0	0
6/12/2024 22:45	53903	HALI_T2	2	2	0	1	1.1	0.1	-0.1	-0.11	0	0	0	0	0	0
6/12/2024 22:45	57106	SPHI_T2	3	3	0	1.97	1.7	-0.27	0	0	0	0	0	0	0	0
6/12/2024 22:45	64101	REFR_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
6/12/2024 22:45	16302	ALPA_T2	0	0	0	0	0	0	0.81	0.79	0	0	0	0	0	0
6/12/2024 22:45	49804	UNIV_T1	8	9	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
6/12/2024 22:45	65901	SAKR_T2	1	1	0	8.4	8.7	0.3	0	0	0	0	0	0	0	0
6/12/2024 22:45	46302	ROHR_T1	109	170	61	0.36	0.39	0.03	0	0	0	0	0	0	0	0
6/12/2024 22:45	45402	WBLO_T2	91	114	23	0.42	0.43	0.01	-0.71	-0.73	0	0	0	0	0	0
6/12/2024 22:45	52404	GRPA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:45	65902	SAKR_T2	0	0	0	0	0	0	-0.65	-0.66	1	1	0	300	300	0
6/12/2024 22:45	20403	ASHF_T2	0	0	0	0	0	0	0.25	0.21	0	0	0	0	0	0
6/12/2024 22:45	52401	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:45	49803	UNIV_T1	0	4	4	0	0.1	0.1	-1.07	-1.11	0	0	0	0	0	0
6/12/2024 22:45	57104	SPHI_T2	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
6/12/2024 22:45	57101	SPHI_T2	6	6	0	0.22	0.3	0.08	0	0	0	0	0	0	0	0
6/12/2024 22:45	20401	ASHF_T2	2	2	0	0.15	0.4	0.25	0	0	0	0	0	0	0	0
6/12/2024 22:45	56801	BENV_T1	12	19	7	0.97	0.87	-0.1	-0.66	-0.68	1	1	0	600	600	0
6/12/2024 22:45	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:45	52002	LING_T2	0	0	0	0	0	0	0.18	0.11	0	0	0	0	0	0
6/12/2024 22:45	52006	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:45	53901	HALI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:45	63302	GREE_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
6/12/2024 22:45	42802	SELI_T1	1	1	0	0.2	0.5	0.3	-0.83	-0.79	1	1	0	900	900	0
6/12/2024 22:45	63305	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:45	40502	CRES_T2	0	7	7	0	0.13	0.13	-0.28	-0.3	0	0	0	0	0	0
6/12/2024 22:45	46301	ROHR_T1	290	302	12	0.58	0.68	0.1	0.21	0.2	0	0	0	0	0	0
6/12/2024 22:45	24104	EHAZ_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	1200	1200	0
6/12/2024 22:45	67605	WARW_T1	2	13	11	0.25	0.27	0.02	-0.97	-1	0	0	0	0	0	0
6/12/2024 22:45	20603	GRWO_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
6/12/2024 22:45	10801	CHHI_T1	0	0	0	0	0	0	-1.24	-1.27	2	2	0	1500	1500	0
6/12/2024 22:45	52402	GRPA_T2	4	4	0	0.58	0.83	0.25	-2.36	-2.25	0	0	0	0	0	0
6/12/2024 22:45	57103	SPHI_T2	0	0	0	0	0	0	-1.49	-1.5	0	0	0	0	0	0
6/12/2024 22:45	46001	BERW_T1	0	0	0	0	0	0	1.38	1.34	0	0	0	0	0	0
6/12/2024 22:46	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:46	53501	EVIL_T2	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0	0
6/12/2024 22:46	64101	REFR_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
6/12/2024 22:46	58003	WCAR_T1	1	1	0	1.5	1.6	0.1	0.65	0.64	0	0	0	0	0	0
6/12/2024 22:46	52404	GRPA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:46	63501	HEID_TBK1-2	0	1	1	0	0.2	0.2	0.46	0.52	0	0	0	0	0	0
6/12/2024 22:46	66504	SMAN_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
6/12/2024 22:46	61102	BERK_T5	0	0	0	0	0	0	0.58	0.64	1	1	0	300	300	0
6/12/2024 22:46	52401	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:46	55101	WERT_T1	0	0	0	0	0	0	-3.09	-3.09	4	4	0	3600	3600	0
6/12/2024 22:46	42002	MNVL_T2	1	1	0	2	2	0	0	0	0	0	0	0	0	0
6/12/2024 22:46	24204	PROV_T3	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
6/12/2024 22:46	40601	PIGR_T1	0	1	1	0	0.1	0.1	0.01	0.01	0	0	0	0	0	0
6/12/2024 22:46	13502	MCMI_T1	7	14	7	0.14	0.15	0.01	0	0	0	0	0	0	0	0
6/12/2024 22:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:46	24205	PROV_T3	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/12/2024 22:46	67804	WLAN_T1	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
6/12/2024 22:46	58001	WCAR_T1	4	4	0	1.15	1	-0.15	0	0	0	0	0	0	0	0
6/12/2024 22:46	56801	BENV_T1	12	19	7	0.97	0.87	-0.1	-0.66	-0.68	1	1	0	600	600	0
6/12/2024 22:46	52402	GRPA_T2	4	4	0	0.58	0.83	0.25	0	0	0	0	0	0	0	0
6/12/2024 22:46	52403	GRPA_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
6/12/2024 22:46	53502	EVIL_T2	0	0	0	0	0	0	0.85	0.84	0	0	0	0	0	0
6/12/2024 22:46	66503	SMAN_T2	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
6/12/2024 22:46	42001	MNVL_T2	0	0	0	0	0	0	0.33	0.29	0	0	0	0	0	0
6/12/2024 22:46	42902	MIDD_T2	0	0	0	0	0	0	-0.38	-0.42	0	0	0	0	0	0
6/12/2024 22:46	21203	ECAR_T1	0	15	15	0	0.23	0.23	0.47	0.47	0	0	0	0	0	0
6/12/2024 22:46	24201	PROV_T3	1	1	0	6.8	5.8	-1	-1.35	-1.36	1	1	0	1200	1200	0
6/12/2024 22:47	46004	BERW_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
6/12/2024 22:47	42002	MNVL_T2	1	1	0	2	2	0	0.35	0.33	0	0	0	0	0	0
6/12/2024 22:47	60104	COCA_T2	3	3	0	0.2	0.27	0.07	0	0	0	0	0	0	0	0
6/12/2024 22:47	41901	REED_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/12/2024 22:47	56801	BENV_T1	12	19	7	0.97	0.87	-0.1	-1.32	-1.36	2	2	0	1200	1200	0
6/12/2024 22:47	55101	WERT_T1	0	0	0	0	0	0	-1.54	-1.54	2	2	0	1800	1800	0
6/12/2024 22:47	27005	BELL_T1	0	0	0	0	0	0	-1.72	-1.74	0	0	0	0	0	0
6/12/2024 22:47	45501	DERR_T2	1	1	0	0.2	0.4	0.2	0.09	-0.02	2	2	0	1800	1800	0
6/12/2024 22:47	52006	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:47	10705	CATA_T2	0	0	0	0	0	0	-0.77	-0.8	1	1	0	900	900	0
6/12/2024 22:47	53903	HALI_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:47	42902	MIDD_T2	0	0	0	0	0	0	-0.38	-0.42	0	0	0	0	0	0
6/12/2024 22:47	58003	WCAR_T1	1	1	0	1.5	1.6	0.1	0.65	0.64	0	0	0	0	0	0
6/12/2024 22:47	67303	WYOM_T2	0	0	0	0	0	0	-1.32	-1.36	0	0	0	0	0	0
6/12/2024 22:47	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:47	52004	LING_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
6/12/2024 22:47	41902	REED_T1	0	0	0	0	0	0	1.12	1.1	0	0	0	0	0	0
6/12/2024 22:47	13503	MCMI_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
6/12/2024 22:47	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:47	46801	HEPB_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/12/2024 22:47	46206	DANV_T2	0	0	0	0	0	0	2.68	2.7	1	1	0	1200	1200	0
6/12/2024 22:47	60103	COCA_T2	0	0	0	0	0	0	-0.77	-0.72	2	2	0	2100	2100	0
6/12/2024 22:47	46803	HEPB_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
6/12/2024 22:47	58001	WCAR_T1	4	4	0	1.15	1	-0.15	0	0	0	0	0	0	0	0
6/12/2024 22:47	58402	MORO_T1	0	0	0	0	0	0	-1.1	-1.22	3	3	0	2400	2400	0
6/12/2024 22:47	67805	WLAN_T1	0	0	0	0	0	0	-1.3	-1.31	0	0	0	0	0	0
6/12/2024 22:47	53902	HALI_T2	1	1	0	5.5	5.6	0.1	-0.89	-0.91	0	0	0	0	0	0
6/12/2024 22:48	52404	GRPA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:48	57303	MOAL_T2	1	1	0	7.6	7.9	0.3	0	0	0	0	0	0	0	0
6/12/2024 22:48	43802	SWIL_T1	0	0	0	0	0	0	0.01	0	1	1	0	600	600	0
6/12/2024 22:48	52403	GRPA_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
6/12/2024 22:48	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:48	44601	SALE_T2	1	1	0	0.5	0.3	-0.2	-0.06	-0.07	0	0	0	0	0	0
6/12/2024 22:48	14204	EALL_T2	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
6/12/2024 22:48	20401	ASHF_T2	2	2	0	0.15	0.4	0.25	0	0	0	0	0	0	0	0
6/12/2024 22:48	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:48	43304	WATS_T2	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
6/12/2024 22:48	58401	MORO_T1	0	0	0	0	0	0	-0.93	-0.95	1	1	0	600	600	0
6/12/2024 22:48	43302	WATS_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/12/2024 22:48	78401	TREI_T2	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
6/12/2024 22:48	57304	MOAL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/12/2024 22:48	20403	ASHF_T2	0	0	0	0	0	0	0.25	0.21	0	0	0	0	0	0
6/12/2024 22:48	14404	SSLA_T1	1	1	0	5.1	5.6	0.5	0	0	0	0	0	0	0	0
6/12/2024 22:48	43801	SWIL_T1	2	2	0	3.3	3.25	-0.05	0	0	0	0	0	0	0	0
6/12/2024 22:48	65901	SAKR_T2	1	1	0	8.4	8.7	0.3	0	0	0	0	0	0	0	0
6/12/2024 22:48	49804	UNIV_T1	8	9	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
6/12/2024 22:48	42203	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:48	42201	SHEN_T2	0	0	0	0	0	0	1.56	1.54	0	0	0	0	0	0
6/12/2024 22:48	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:48	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
6/12/2024 22:48	53903	HALI_T2	2	2	0	1	1.1	0.1	-0.1	-0.11	0	0	0	0	0	0
6/12/2024 22:48	67204	TEHI_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
6/12/2024 22:48	14403	SSLA_T1	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
6/12/2024 22:48	65904	SAKR_T2	0	0	0	0	0	0	-1.5	-1.51	3	3	0	1500	1500	0
6/12/2024 22:48	66703	STRA_T1	4	3	-1	0.28	0.17	-0.11	-0.22	-0.26	0	0	0	0	0	0
6/12/2024 22:48	61803	EELI_T2	0	0	0	0	0	0	0.09	0.09	1	1	0	600	600	0
6/12/2024 22:48	49803	UNIV_T1	0	4	4	0	0.1	0.1	-1.07	-1.11	0	0	0	0	0	0
6/12/2024 22:48	57306	MOAL_T2	0	1	1	0	0	0	-2.99	-3.01	1	1	0	1200	1200	0
6/12/2024 22:48	52402	GRPA_T2	4	4	0	0.58	0.83	0.25	0	0	0	0	0	0	0	0
6/12/2024 22:48	52401	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:49	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/12/2024 22:49	66504	SMAN_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
6/12/2024 22:49	46506	LOHA_T1	1	1	0	0.5	0.5	0	-0.36	-0.37	0	0	0	0	0	0
6/12/2024 22:49	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:49	52401	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:49	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:49	55101	WERT_T1	0	0	0	0	0	0	-1.54	-1.54	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/12/2024 22:49	52403	GRPA_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
6/12/2024 22:49	50501	MECH_T1	4	3	-1	0.8	0.17	-0.63	0	0	0	0	0	0	0	0
6/12/2024 22:49	46001	BERW_T1	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
6/12/2024 22:49	58401	MORO_T1	0	0	0	0	0	0	-0.93	-0.95	1	1	0	600	600	0
6/12/2024 22:49	50506	MECH_T1	0	0	0	0	0	0	0.13	0.04	0	0	0	0	0	0
6/12/2024 22:49	43201	MVIL_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/12/2024 22:49	50502	MECH_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
6/12/2024 22:49	29402	BELT_T1	1	1	0	8	7.8	-0.2	0	0	0	0	0	0	0	0
6/12/2024 22:49	46206	DANV_T2	0	0	0	0	0	0	2.68	2.7	1	1	0	1200	1200	0
6/12/2024 22:49	52402	GRPA_T2	4	4	0	0.58	0.83	0.25	0	0	0	0	0	0	0	0
6/12/2024 22:49	23001	SAIO_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
6/12/2024 22:49	43202	MVIL_T2	173	183	10	0.77	1	0.23	-1.37	-1.37	0	0	0	0	0	0
6/12/2024 22:49	67605	WARW_T1	2	13	11	0.25	0.27	0.02	-0.97	-1	0	0	0	0	0	0
6/12/2024 22:49	67605	WARW_T1	2	13	11	0.25	0.27	0.02	-0.97	-1	0	0	0	0	0	0
6/12/2024 22:49	67605	WARW_T1	2	13	11	0.25	0.27	0.02	-0.97	-1	0	0	0	0	0	0
6/12/2024 22:49	67605	WARW_T1	2	13	11	0.25	0.27	0.02	-0.97	-1	0	0	0	0	0	0
6/12/2024 22:49	23002	SAIO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:49	46504	LOHA_T1	2	2	0	0.85	1.05	0.2	0	0	0	0	0	0	0	0
6/12/2024 22:49	52404	GRPA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:49	67201	TEHI_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
6/12/2024 22:49	12701	MACU_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
6/12/2024 22:50	42903	MIDD_T2	0	0	0	0	0	0	-0.15	-0.06	0	0	0	0	0	0
6/12/2024 22:50	46206	DANV_T2	0	0	0	0	0	0	2.68	2.7	1	1	0	1200	1200	0
6/12/2024 22:50	58401	MORO_T1	0	0	0	0	0	0	-0.93	-0.95	1	1	0	600	600	0
6/12/2024 22:50	43301	WATS_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
6/12/2024 22:50	50502	MECH_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
6/12/2024 22:50	64101	REFR_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
6/12/2024 22:50	43202	MVIL_T2	173	183	10	0.77	1	0.23	-0.68	-0.68	0	0	0	0	0	0
6/12/2024 22:50	42902	MIDD_T2	0	0	0	0	0	0	-0.38	-0.42	0	0	0	0	0	0
6/12/2024 22:50	50501	MECH_T1	4	3	-1	0.8	0.17	-0.63	-1.31	0.08	0	0	0	0	0	0
6/12/2024 22:50	45402	WBLO_T2	91	114	23	0.42	0.43	0.01	-0.71	-0.73	0	0	0	0	0	0
6/12/2024 22:50	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:50	64503	LAVI_T1	0	0	0	0	0	0	-0.27	-0.3	1	1	0	1200	1200	0
6/12/2024 22:50	40502	CRES_T2	0	7	7	0	0.13	0.13	-0.28	-0.3	0	0	0	0	0	0
6/12/2024 22:50	40601	PIGR_T1	0	1	1	0	0.1	0.1	0.01	0.01	0	0	0	0	0	0
6/12/2024 22:50	43201	MVIL_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/12/2024 22:50	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/12/2024 22:50	43302	WATS_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/12/2024 22:51	42802	SELI_T1	1	1	0	0.2	0.5	0.3	-0.79	-0.79	1	1	0	900	900	0
6/12/2024 22:51	67204	TEHI_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
6/12/2024 22:51	46102	MACI_T1	0	0	0	0	0	0	0.85	0.84	0	0	0	0	0	0
6/12/2024 22:51	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:51	53903	HALI_T2	2	2	0	1	1.1	0.1	-0.1	-0.11	0	0	0	0	0	0
6/12/2024 22:51	41902	REED_T1	0	0	0	0	0	0	1.12	1.1	0	0	0	0	0	0
6/12/2024 22:51	42902	MIDD_T2	0	0	0	0	0	0	-0.42	-0.47	0	0	0	0	0	0
6/12/2024 22:51	41901	REED_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/12/2024 22:51	40902	JESH_T1	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
6/12/2024 22:51	58402	MORO_T1	0	0	0	0	0	0	-1.1	-1.22	3	3	0	2400	2400	0
6/12/2024 22:51	44201	POIN_T1	72	188	116	0.17	0.22	0.05	-2.12	-2.1	2	2	0	2100	2100	0
6/12/2024 22:51	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:52	40101	HUNT_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
6/12/2024 22:52	46504	LOHA_T1	2	2	0	0.85	1.05	0.2	0	0	0	0	0	0	0	0
6/12/2024 22:52	46506	LOHA_T1	1	1	0	0.5	0.5	0	-0.37	-0.37	0	0	0	0	0	0
6/12/2024 22:53	52004	LING_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
6/12/2024 22:53	43302	WATS_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/12/2024 22:53	52006	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/12/2024 22:53	43304	WATS_T2	0	0	0	0	0	0	-0.2	-0.24	0	0	0	0	0	0
6/12/2024 22:55	46504	LOHA_T1	2	2	0	0.85	1.05	0.2	0	0	0	0	0	0	0	0
6/12/2024 22:55	46506	LOHA_T1	1	1	0	0.5	0.5	0	-0.37	-0.37	0	0	0	0	0	0
6/12/2024 22:55	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
6/12/2024 23:03	43505	WWIL_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
6/12/2024 23:03	43504	WWIL_T1	6	8	2	0.18	0.17	-0.01	0.65	0.58	0	0	0	0	0	0
6/12/2024 23:03	43506	WWIL_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
6/12/2024 23:14	67803	WLAN_T1	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
6/12/2024 23:58	56504	ROCK_T2	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
6/12/2024 23:58	56501	ROCK_T2	4	5	1	1.98	0.73	-1.25	0	0	0	0	0	0	0	0
6/13/2024 0:12	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 0:12	40601	PIGR_T1	32	0	-32	0.14	0	-0.14	0	0	0	0	0	0	0	0
6/13/2024 0:12	10903	COOP_T2	66	113	47	0.17	0.33	0.16	0	0	0	0	0	0	0	0
6/13/2024 0:12	10901	COOP_T2	0	0	0	0	0	0	0.76	0.77	0	0	0	0	0	0
6/13/2024 0:17	60101	COCA_T1	0	9	9	0	0.12	0.12	0.3	0.3	0	0	0	0	0	0
6/13/2024 6:22	29402	BELT_T1	1	1	0	7.9	8.4	0.5	0	0	0	0	0	0	0	0
6/13/2024 6:22	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/13/2024 6:34	24201	PROV_T3	1	1	0	6.7	6.9	0.2	-0.12	-0.1	0	0	0	0	0	0
6/13/2024 6:34	24204	PROV_T3	1	1	0	6.4	6.6	0.2	0	0	0	0	0	0	0	0
6/13/2024 6:40	14204	EALL_T2	0	0	0	0	0	0	-0.64	-0.53	0	0	0	0	0	0
6/13/2024 6:40	60803	BUCK_T1	0	11	11	0	0.26	0.26	0	0	0	0	0	0	0	0
6/13/2024 6:40	60801	BUCK_T1	29	66	37	0.16	0.38	0.22	-0.89	-0.75	1	1	0	600	600	0
6/13/2024 6:46	13103	NHAM_T2	0	0	0	0	0	0	-1.7	-1.7	1	1	0	600	600	0
6/13/2024 6:50	67503	WEWI_T2	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
6/13/2024 6:50	13103	NHAM_T2	0	0	0	0	0	0	-1.7	-1.7	1	1	0	600	600	0
6/13/2024 6:55	41502	FAIR_T2	0	0	0	0	0	0	-1.71	-1.71	1	1	0	900	900	0
6/13/2024 6:55	40801	EXCH_T2	0	0	0	0	0	0	-0.58	-0.51	1	1	0	1200	1200	0
6/13/2024 6:56	40802	EXCH_T2	0	0	0	0	0	0	-0.88	-0.77	0	0	0	0	0	0
6/13/2024 6:57	40802	EXCH_T2	0	0	0	0	0	0	-0.88	-0.77	0	0	0	0	0	0
6/13/2024 7:07	67303	WYOM_T2	3	1	-2	0.1	0.2	0.1	-1.51	-1.45	0	0	0	0	0	0
6/13/2024 7:07	67304	WYOM_T2	158	9	-149	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
6/13/2024 7:09	20401	ASHF_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/13/2024 7:09	20403	ASHF_T2	0	0	0	0	0	0	1	1.23	0	0	0	0	0	0
6/13/2024 7:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/13/2024 7:09	29402	BELT_T1	1	1	0	8.3	8.4	0.1	0	0	0	0	0	0	0	0
6/13/2024 7:10	62102	ELAN_T1	0	0	0	0	0	0	0.57	0.62	0	0	0	0	0	0
6/13/2024 7:11	63804	HEMP_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
6/13/2024 7:11	63801	HEMP_T1	0	0	0	0	0	0	-0.5	-0.7	1	1	0	900	900	0
6/13/2024 7:11	20401	ASHF_T2	1	2	1	0.1	0.5	0.4	-0.29	-0.28	0	0	0	0	0	0
6/13/2024 7:18	13501	MCMI_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
6/13/2024 7:19	15204	SFAR_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
6/13/2024 7:20	58006	WCAR_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
6/13/2024 7:21	56601	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 7:22	57101	SPHI_T2	6	6	0	0.68	0.47	-0.21	0	0	0	0	0	0	0	0
6/13/2024 7:22	57103	SPHI_T2	0	0	0	0	0	0	-1.43	-1.34	0	0	0	0	0	0
6/13/2024 7:22	57104	SPHI_T2	1	1	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
6/13/2024 7:22	15203	SFAR_T2	0	0	0	0	0	0	-1.26	-1.24	0	0	0	0	0	0
6/13/2024 7:22	57106	SPHI_T2	3	3	0	1.6	1.47	-0.13	0	0	0	0	0	0	0	0
6/13/2024 7:25	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/13/2024 7:25	29402	BELT_T1	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0	0
6/13/2024 7:28	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/13/2024 7:28	24703	FLND_T2	0	0	0	0	0	0	-1.08	-1.08	1	1	0	1200	1200	0
6/13/2024 7:28	54502	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
6/13/2024 7:28	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 7:28	54503	ENOL_T2	0	0	0	0	0	0	-1.99	-1.94	1	1	0	600	600	0
6/13/2024 7:28	45501	DERR_T2	1	1	0	0.1	0.2	0.1	0.69	0.65	2	2	0	1800	1800	0
6/13/2024 7:29	54502	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
6/13/2024 7:29	54503	ENOL_T2	0	0	0	0	0	0	-1.99	-1.94	1	1	0	600	600	0
6/13/2024 7:29	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 7:29	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/13/2024 7:30	54502	ENOL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/13/2024 7:30	41802	GOCI_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 7:30	54505	ENOL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/13/2024 7:30	64901	MILL_T1	0	34	34	0	0.14	0.14	0	0	0	0	0	0	0	0
6/13/2024 7:30	64904	MILL_T1	0	9	9	0	0.14	0.14	-0.4	-0.37	0	0	0	0	0	0
6/13/2024 7:30	41801	GOCI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/13/2024 7:30	54503	ENOL_T2	0	0	0	0	0	0	-1.99	-1.94	1	1	0	600	600	0
6/13/2024 7:31	43202	MVIL_T2	22	8	-14	0.15	0.13	-0.02	-0.66	-0.65	0	0	0	0	0	0
6/13/2024 7:32	59002	MIFF_T1	5	6	1	0.38	0.68	0.3	0	0	0	0	0	0	0	0
6/13/2024 7:32	59003	MIFF_T1	0	1	1	0	0.7	0.7	0.63	-0.41	0	0	0	0	0	0
6/13/2024 7:34	56601	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 7:35	67501	WEWI_T1	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
6/13/2024 7:37	67501	WEWI_T1	1	2	1	0.3	0.3	0	-2.85	-2.84	3	3	0	1800	1800	0
6/13/2024 7:39	56802	BENV_T2	10	126	116	0.31	0.21	-0.1	-1.43	-1.42	0	0	0	0	0	0
6/13/2024 7:42	56802	BENV_T2	10	126	116	0.31	0.21	-0.1	-1.43	-1.42	0	0	0	0	0	0
6/13/2024 7:43	62607	ENGL_T1	0	0	0	0	0	0	-1	-0.98	1	1	0	300	300	0
6/13/2024 7:44	62605	ENGL_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
6/13/2024 7:45	55102	WERT_T2	0	0	0	0	0	0	-1.65	-1.74	2	2	0	1200	1200	0
6/13/2024 7:47	52001	LING_T1	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
6/13/2024 7:47	54203	PENN_T1	4	59	55	1.33	0.34	-0.99	0	0	0	0	0	0	0	0
6/13/2024 7:47	40101	HUNT_T2	0	0	0	0	0	0	-0.29	-0.24	0	0	0	0	0	0
6/13/2024 7:47	54203	PENN_T1	18	18	0	0.64	0.98	0.34	0.19	0.23	0	0	0	0	0	0
6/13/2024 7:48	51204	MTON_T2	0	0	0	0	0	0	-0.37	-0.37	1	1	0	600	600	0
6/13/2024 7:48	66703	STRA_T1	0	0	0	0	0	0	-0.04	0.07	0	0	0	0	0	0
6/13/2024 7:49	51204	MTON_T2	0	0	0	0	0	0	-0.37	-0.37	1	1	0	600	600	0
6/13/2024 7:50	14802	TREI_T2	17	6	-11	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
6/13/2024 7:50	24204	PROV_T3	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
6/13/2024 7:50	14801	TREI_T2	66	35	-31	0.18	0.14	-0.04	0.4	0.41	0	0	0	0	0	0
6/13/2024 7:50	24201	PROV_T3	15	3	-12	0.51	1.97	1.46	-1.37	-1.35	1	1	0	1200	1200	0
6/13/2024 7:51	24201	PROV_T3	15	3	-12	0.51	1.97	1.46	-1.37	-1.35	1	1	0	1200	1200	0
6/13/2024 7:51	24204	PROV_T3	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
6/13/2024 7:53	67605	WARW_T1	9	11	2	0.29	0.33	0.04	-1.01	-0.99	0	0	0	0	0	0
6/13/2024 7:54	56802	BENV_T2	126	212	86	0.21	0.5	0.29	-1.42	-1.4	0	0	0	0	0	0
6/13/2024 7:55	20401	ASHF_T2	4	3	-1	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
6/13/2024 7:55	20403	ASHF_T2	0	2	2	0	0.25	0.25	1.32	1.27	0	0	0	0	0	0
6/13/2024 7:56	46504	LOHA_T1	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/13/2024 7:56	46506	LOHA_T1	1	1	0	0.8	0.8	0	-0.34	-0.35	0	0	0	0	0	0
6/13/2024 8:00	25404	LAHA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/13/2024 8:00	25402	LAHA_T2	0	0	0	0	0	0	-0.78	-0.72	0	0	0	0	0	0
6/13/2024 8:01	12807	MICK_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
6/13/2024 8:01	12802	MICK_T1	0	0	0	0	0	0	-1.08	-1.06	0	0	0	0	0	0
6/13/2024 8:06	66504	SMAN_T2	0	0	0	0	0	0	-0.23	-0.09	0	0	0	0	0	0
6/13/2024 8:07	45602	WOOL_T1	1	0	-1	0.1	0	-0.1	0.66	0.66	0	0	0	0	0	0
6/13/2024 8:09	46203	DANV_T2	0	0	0	0	0	0	0.52	-0.72	0	0	0	0	0	0
6/13/2024 8:09	46206	DANV_T2	5	1	-4	0.46	1.4	0.94	0	0	0	0	0	0	0	0
6/13/2024 8:11	63306	GREE_T1	0	0	0	0	0	0	-2.08	-2.05	1	1	0	900	900	0
6/13/2024 8:11	63305	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/13/2024 8:12	63305	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/13/2024 8:12	63306	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 8:13	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 8:13	20603	GRWO_T2	0	1	1	0	0.1	0.1	-0.64	-0.63	1	1	0	900	900	0
6/13/2024 8:15	63306	GREE_T1	0	0	0	0	0	0	-2.08	-2.05	1	1	0	900	900	0
6/13/2024 8:15	45602	WOOL_T1	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
6/13/2024 8:16	25402	LAHA_T2	0	0	0	0	0	0	-0.72	-0.67	0	0	0	0	0	0
6/13/2024 8:16	25404	LAHA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/13/2024 8:18	57303	MOAL_T2	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
6/13/2024 8:18	57306	MOAL_T2	0	0	0	0	0	0	-3.15	-3.13	1	1	0	1200	1200	0
6/13/2024 8:18	57304	MOAL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/13/2024 8:18	52004	LING_T2	1	1	0	0.5	0.2	-0.3	0.29	0.3	0	0	0	0	0	0
6/13/2024 8:18	55002	NEWP_T1	9	12	3	0.76	0.63	-0.13	-0.39	-0.38	0	0	0	0	0	0
6/13/2024 8:19	59003	MIFF_T1	1	1	0	0.8	0.2	-0.6	-0.07	-0.1	0	0	0	0	0	0
6/13/2024 8:19	59002	MIFF_T1	5	5	0	1	0.38	-0.62	0	0	0	0	0	0	0	0
6/13/2024 8:19	59001	MIFF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/13/2024 8:20	55002	NEWP_T1	9	12	3	0.76	0.63	-0.13	-0.2	-0.19	0	0	0	0	0	0
6/13/2024 8:21	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
6/13/2024 8:21	67803	WLAN_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
6/13/2024 8:21	67804	WLAN_T1	0	0	0	0	0	0	-1.02	-0.99	0	0	0	0	0	0
6/13/2024 8:21	14404	SSLA_T1	2	2	0	3.35	3.4	0.05	0	0	0	0	0	0	0	0
6/13/2024 8:21	14403	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/13/2024 8:21	14401	SSLA_T1	1	0	-1	0.1	0.1	0	-0.42	-0.43	0	0	0	0	0	0
6/13/2024 8:21	14402	SSLA_T1	2	3	1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
6/13/2024 8:21	15703	TANN_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
6/13/2024 8:22	67801	WLAN_T1	0	0	0	0	0	0	0.14	0.34	0	0	0	0	0	0
6/13/2024 8:22	67803	WLAN_T1	2	1	-1	0.15	0.2	0.05	-0.79	-0.77	0	0	0	0	0	0
6/13/2024 8:23	67804	WLAN_T1	0	0	0	0	0	0	-1.02	-0.99	0	0	0	0	0	0
6/13/2024 8:23	56802	BENV_T2	212	196	-16	0.5	0.4	-0.1	-1.39	-1.37	0	0	0	0	0	0
6/13/2024 8:23	67803	WLAN_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
6/13/2024 8:23	46002	BERW_T2	0	0	0	0	0	0	-0.74	-0.63	1	1	0	900	900	0
6/13/2024 8:24	67804	WLAN_T1	0	0	0	0	0	0	-2.04	-1.99	0	0	0	0	0	0
6/13/2024 8:24	67803	WLAN_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
6/13/2024 8:24	45501	DERR_T2	1	1	0	0.5	0.5	0	0.56	0.65	2	2	0	1800	1800	0
6/13/2024 8:25	40801	EXCH_T2	5	2	-3	0.34	0.6	0.26	0	0	0	0	0	0	0	0
6/13/2024 8:25	40802	EXCH_T2	1	1	0	0.8	0.9	0.1	0.53	0.52	0	0	0	0	0	0
6/13/2024 8:27	20403	ASHF_T2	2	3	1	0.25	0.2	-0.05	1.39	1.33	0	0	0	0	0	0
6/13/2024 8:27	20401	ASHF_T2	3	3	0	0.33	0.47	0.14	0	0	0	0	0	0	0	0
6/13/2024 8:27	21203	ECAR_T1	1	1	0	0.1	0.5	0.4	0.72	0.72	0	0	0	0	0	0
6/13/2024 8:30	42001	MNVL_T2	5	2	-3	0.4	0.45	0.05	0.04	0.06	0	0	0	0	0	0
6/13/2024 8:30	42002	MNVL_T2	1	1	0	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
6/13/2024 8:31	42001	MNVL_T2	5	2	-3	0.4	0.45	0.05	0.04	0.06	0	0	0	0	0	0
6/13/2024 8:31	42002	MNVL_T2	1	1	0	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
6/13/2024 8:32	51202	MTON_T2	0	0	0	0	0	0	-1.07	0.24	1	0	-1	1200	0	-1200
6/13/2024 8:33	57304	MOAL_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/13/2024 8:33	57303	MOAL_T2	1	1	0	6.8	7.7	0.9	0	0	0	0	0	0	0	0
6/13/2024 8:33	57306	MOAL_T2	0	0	0	0	0	0	-3.13	-1.81	1	0	-1	1200	0	-1200
6/13/2024 8:34	51202	MTON_T2	0	0	0	0	0	0	-1.07	0.24	1	0	-1	1200	0	-1200
6/13/2024 8:37	14403	SSLA_T1	0	1	1	0	0.2	0.2	0.97	0.99	0	0	0	0	0	0
6/13/2024 8:37	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 8:37	14402	SSLA_T1	2	4	2	0.15	0.25	0.1	0	0	0	0	0	0	0	0
6/13/2024 8:37	14404	SSLA_T1	1	3	2	6.5	2.27	-4.23	0	0	0	0	0	0	0	0
6/13/2024 8:38	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
6/13/2024 8:38	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.3	0	0	0	0	0	0
6/13/2024 8:38	57006	WHHI_T2	1	1	0	0.4	0.2	-0.2	1.13	1.16	0	0	0	0	0	0
6/13/2024 8:39	14404	SSLA_T1	1	3	2	6.5	2.27	-4.23	0	0	0	0	0	0	0	0
6/13/2024 8:39	14402	SSLA_T1	2	4	2	0.15	0.25	0.1	0	0	0	0	0	0	0	0
6/13/2024 8:39	57004	WHHI_T2	0	0	0	0	0	0	-0.44	-0.41	0	0	0	0	0	0
6/13/2024 8:39	57006	WHHI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/13/2024 8:39	14403	SSLA_T1	0	1	1	0	0.2	0.2	0.97	0.99	0	0	0	0	0	0
6/13/2024 8:39	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 8:41	54504	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/13/2024 8:41	54505	ENOL_T2	1	1	0	0.8	0.8	0	-1.27	-1.25	1	1	0	600	600	0
6/13/2024 8:41	57004	WHHI_T2	0	0	0	0	0	0	-0.44	-0.41	0	0	0	0	0	0
6/13/2024 8:41	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/13/2024 8:41	11507	FREE_T2	1	3	2	0.1	0.65	0.55	1.32	1.48	0	0	0	0	0	0
6/13/2024 8:41	57006	WHHI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/13/2024 8:41	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/13/2024 8:45	47001	HUGH_T2	0	0	0	0	0	0	-0.13	-0.06	0	0	0	0	0	0
6/13/2024 8:45	54504	ENOL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/13/2024 8:45	54502	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/13/2024 8:45	54505	ENOL_T2	1	2	1	0.8	0.3	-0.5	-1.27	-1.25	1	1	0	600	600	0
6/13/2024 8:48	13503	MCMI_T2	1	1	0	0.4	0.6	0.2	-0.01	-0.01	0	0	0	0	0	0
6/13/2024 8:48	47001	HUGH_T2	0	0	0	0	0	0	-0.13	-0.06	0	0	0	0	0	0
6/13/2024 8:50	67605	WARW_T1	12	15	3	0.38	0.44	0.06	-0.95	-0.93	0	0	0	0	0	0
6/13/2024 8:52	67605	WARW_T1	12	15	3	0.38	0.44	0.06	-1.85	-1.81	0	0	0	0	0	0
6/13/2024 8:54	10805	CHHI_T2	2	2	0	4.35	4.4	0.05	-0.79	-0.77	1	1	0	600	600	0
6/13/2024 9:01	46801	HEPB_T2	2	2	0	0.65	0.75	0.1	0	0	0	0	0	0	0	0
6/13/2024 9:01	46803	HEPB_T2	1	1	0	0.3	0.9	0.6	0.53	0.53	0	0	0	0	0	0
6/13/2024 9:03	58401	MORO_T1	0	0	0	0	0	0	-1.73	-1.63	2	2	0	1200	1200	0
6/13/2024 9:03	13302	ORVI_T2	1	1	0	0.3	0.4	0.1	1.29	1.31	0	0	0	0	0	0
6/13/2024 9:05	58401	MORO_T1	0	0	0	0	0	0	-0.86	-0.82	1	1	0	600	600	0
6/13/2024 9:06	58401	MORO_T1	0	0	0	0	0	0	-0.86	-0.82	1	1	0	600	600	0
6/13/2024 9:07	56802	BENV_T2	139	150	11	0.23	0.25	0.02	-1.33	-1.25	0	0	0	0	0	0
6/13/2024 9:08	44301	BEAV_T2	0	8	8	0	0.44	0.44	-0.02	0.23	2	2	0	1500	1500	0
6/13/2024 9:09	56802	BENV_T2	139	150	11	0.23	0.25	0.02	-2.67	-2.5	0	0	0	0	0	0
6/13/2024 9:09	29402	BELT_T1	2	2	0	4.3	4.6	0.3	0	0	0	0	0	0	0	0
6/13/2024 9:09	29401	BELT_T1	38	72	34	0.21	0.24	0.03	0	0	1	1	0	900	900	0
6/13/2024 9:09	44301	BEAV_T2	0	8	8	0	0.44	0.44	-0.02	0.23	2	2	0	1500	1500	0
6/13/2024 9:10	44301	BEAV_T2	0	8	8	0	0.44	0.44	-0.02	0.23	2	2	0	1500	1500	0
6/13/2024 9:11	56802	BENV_T2	139	150	11	0.23	0.25	0.02	-1.33	-1.25	0	0	0	0	0	0
6/13/2024 9:11	44301	BEAV_T2	0	8	8	0	0.44	0.44	-0.02	0.23	2	2	0	1500	1500	0
6/13/2024 9:12	56802	BENV_T2	139	150	11	0.23	0.25	0.02	-2.67	-2.5	0	0	0	0	0	0
6/13/2024 9:13	56802	BENV_T2	139	150	11	0.23	0.25	0.02	-2.67	-2.5	0	0	0	0	0	0
6/13/2024 9:19	67201	TEHI_T1	21	21	0	0.64	1.04	0.4	0	0	0	0	0	0	0	0
6/13/2024 9:19	58401	MORO_T1	0	0	0	0	0	0	-1.63	-1.54	2	2	0	1200	1200	0
6/13/2024 9:19	67203	TEHI_T1	2	1	-1	0.4	0	-0.4	2.15	1.69	3	4	1	2100	3000	900
6/13/2024 9:20	56501	ROCK_T2	4	5	1	2.8	3.53	0.73	0	0	0	0	0	0	0	0
6/13/2024 9:20	56504	ROCK_T2	1	3	2	0.6	0.37	-0.23	-0.13	-0.1	0	0	0	0	0	0
6/13/2024 9:20	58401	MORO_T1	0	0	0	0	0	0	-0.82	-0.77	1	1	0	600	600	0
6/13/2024 9:22	67803	WLAN_T1	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
6/13/2024 9:22	17002	RIRO_T2	33	50	17	0.22	0.24	0.02	0.79	0.79	0	0	0	0	0	0
6/13/2024 9:23	41902	REED_T1	0	0	0	0	0	0	1.26	1.29	0	0	0	0	0	0
6/13/2024 9:24	10805	CHHI_T2	2	2	0	4.4	8.4	4	-0.87	-0.78	1	1	0	600	600	0
6/13/2024 9:24	41902	REED_T1	0	0	0	0	0	0	1.26	1.29	0	0	0	0	0	0
6/13/2024 9:25	10805	CHHI_T2	2	2	0	4.4	8.4	4	-0.87	-0.78	1	1	0	600	600	0
6/13/2024 9:33	64101	REFR_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
6/13/2024 9:34	64101	REFR_T1	0	0	0	0	0	0	0.13	0.17	0	0	0	0	0	0
6/13/2024 9:36	64101	REFR_T1	0	0	0	0	0	0	0.17	0.2	0	0	0	0	0	0
6/13/2024 9:38	64101	REFR_T1	0	0	0	0	0	0	0.25	0.3	0	0	0	0	0	0
6/13/2024 9:39	64101	REFR_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
6/13/2024 9:42	47203	FAXO_T2	0	1	1	0	0.1	0.1	-1.39	-1.36	1	1	0	1200	1200	0
6/13/2024 9:42	45502	DERR_T2	0	0	0	0	0	0	1.02	0.15	0	1	1	0	300	300
6/13/2024 9:43	46803	HEPB_T2	1	5	4	0.9	0.42	-0.48	0.54	0.61	0	0	0	0	0	0
6/13/2024 9:43	46801	HEPB_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
6/13/2024 9:47	55002	NEWP_T1	9	14	5	0.54	0.69	0.15	-0.44	-0.41	0	0	0	0	0	0
6/13/2024 9:47	13503	MCMI_T2	4	3	-1	0.43	0.57	0.14	-0.01	-0.01	0	0	0	0	0	0
6/13/2024 9:49	56501	ROCK_T2	4	2	-2	1.45	4.3	2.85	0.5	0.58	0	0	0	0	0	0
6/13/2024 9:49	55002	NEWP_T1	9	14	5	0.54	0.69	0.15	-0.15	-0.14	0	0	0	0	0	0
6/13/2024 9:49	13503	MCMI_T2	4	3	-1	0.43	0.57	0.14	-0.01	-0.01	0	0	0	0	0	0
6/13/2024 9:49	56504	ROCK_T2	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0	0
6/13/2024 9:51	56504	ROCK_T2	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0	0
6/13/2024 9:51	56501	ROCK_T2	4	2	-2	1.45	4.3	2.85	0.13	0.15	0	0	0	0	0	0
6/13/2024 9:53	56501	ROCK_T2	4	2	-2	1.45	4.3	2.85	0.15	0.17	0	0	0	0	0	0
6/13/2024 9:53	56504	ROCK_T2	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0	0
6/13/2024 9:53	44301	BEAV_T2	5	1	-4	0.4	1.9	1.5	0.24	0.45	2	2	0	1500	1500	0
6/13/2024 9:54	15702	TANN_T2	4	3	-1	0.3	0.3	0	-0.32	-0.25	0	0	0	0	0	0
6/13/2024 9:54	15703	TANN_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
6/13/2024 10:00	17002	RIRO_T2	23	50	27	0.29	0.26	-0.03	0.79	0.84	0	0	0	0	0	0
6/13/2024 10:00	41902	REED_T1	0	0	0	0	0	0	2.63	2.68	0	0	0	0	0	0
6/13/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
6/13/2024 10:00	46503	LOHA_T1	1	0	-1	0.2	0	-0.2	-0.59	-0.59	0	0	0	0	0	0
6/13/2024 10:00	58001	WCAR_T1	4	3	-1	0.53	0.5	-0.03	0.9	0.91	0	0	0	0	0	0
6/13/2024 10:00	40505	CRES_T1	3	3	0	4.1	4.03	-0.07	0.53	0.55	0	0	0	0	0	0
6/13/2024 10:00	58003	WCAR_T1	3	1	-2	0.67	1	0.33	0	0	0	0	0	0	0	0
6/13/2024 10:00	14802	TREI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/13/2024 10:00	14801	TREI_T2	3	3	0	0.67	0.5	-0.17	0.59	0.61	0	0	0	0	0	0
6/13/2024 10:00	48302	ORWI_T2	2	2	0	0.35	0.2	-0.15	0.18	0.41	0	0	0	0	0	0
6/13/2024 10:00	67502	WEWI_T2	2	2	0	0.5	0.25	-0.25	-0.91	-0.78	1	1	0	900	900	0
6/13/2024 10:01	13502	MCMI_T1	2	2	0	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
6/13/2024 10:01	13501	MCMI_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
6/13/2024 10:06	13302	ORVI_T2	1	1	0	0.3	0.4	0.1	1.52	1.55	0	0	0	0	0	0
6/13/2024 10:08	29402	BELT_T1	2	2	0	4.45	4.4	-0.05	0	0	0	0	0	0	0	0
6/13/2024 10:08	29401	BELT_T1	34	21	-13	0.22	0.2	-0.02	0	0	1	1	0	900	900	0
6/13/2024 10:09	45502	DERR_T2	0	3	3	0	0.35	0.35	0	0	0	0	0	0	0	0
6/13/2024 10:09	67903	WNHO_T1	0	0	0	0	0	0	1.28	1.28	1	1	0	1200	1200	0
6/13/2024 10:09	45501	DERR_T2	0	0	0	0	0	0	1.03	0.94	2	2	0	1800	1800	0
6/13/2024 10:10	11507	FREE_T2	1	1	0	0.2	0.5	0.3	1.53	1.45	0	0	0	0	0	0
6/13/2024 10:10	45502	DERR_T2	0	3	3	0	0.35	0.35	0	0	0	0	0	0	0	0
6/13/2024 10:10	57003	WHHI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/13/2024 10:10	29402	BELT_T1	2	2	0	4.45	4.4	-0.05	0	0	0	0	0	0	0	0
6/13/2024 10:10	57004	WHHI_T2	0	0	0	0	0	0	-0.23	-0.18	0	0	0	0	0	0
6/13/2024 10:10	45501	DERR_T2	0	0	0	0	0	0	1.03	0.94	2	2	0	1800	1800	0
6/13/2024 10:10	51101	CARL_T1	2	1	-1	3.65	7.1	3.45	-0.81	-0.8	1	1	0	600	600	0
6/13/2024 10:10	29401	BELT_T1	34	21	-13	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
6/13/2024 10:10	51109	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 10:11	53501	EVIL_T2	1	2	1	0.2	0.35	0.15	-0.18	-0.45	2	3	1	1500	1700	200
6/13/2024 10:11	10801	CHHI_T1	4	5	1	0.65	0.54	-0.11	-2.01	-1.91	4	4	0	3000	3000	0
6/13/2024 10:11	53502	EVIL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
6/13/2024 10:12	53501	EVIL_T2	1	2	1	0.2	0.35	0.15	-0.18	-0.45	2	3	1	1500	1700	200
6/13/2024 10:12	10805	CHHI_T2	4	8	4	3.03	5.5	2.47	-0.17	-0.51	1	1	0	600	600	0
6/13/2024 10:12	53502	EVIL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
6/13/2024 10:12	63302	GREE_T1	0	0	0	0	0	0	0.92	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/13/2024 10:13	45502	DERR_T2	0	3	3	0	0.35	0.35	0.39	0.38	1	1	0	300	300	0
6/13/2024 10:14	14203	EALL_T1	0	0	0	0	0	0	0.24	0.19	1	1	0	1200	1200	0
6/13/2024 10:14	47203	FAXO_T2	1	1	0	0.1	0.2	0.1	-1.37	-1.28	1	1	0	1200	1200	0
6/13/2024 10:17	58401	MORO_T1	0	0	0	0	0	0	-0.66	-0.66	1	1	0	600	600	0
6/13/2024 10:19	23002	SAJO_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
6/13/2024 10:19	66502	SMAN_T2	0	1	1	0	0.4	0.4	0.63	0.6	0	0	0	0	0	0
6/13/2024 10:19	23001	SAJO_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
6/13/2024 10:20	56504	ROCK_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/13/2024 10:20	56501	ROCK_T2	2	2	0	4.3	4.7	0.4	0.33	0.37	0	0	0	0	0	0
6/13/2024 10:20	23002	SAJO_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
6/13/2024 10:20	58003	WCAR_T1	1	2	1	1	0.5	-0.5	0.94	0.97	0	0	0	0	0	0
6/13/2024 10:20	66502	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/13/2024 10:20	23001	SAJO_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
6/13/2024 10:20	15702	TANN_T2	2	3	1	0.3	0.3	0	-0.25	-0.27	0	0	0	0	0	0
6/13/2024 10:20	58001	WCAR_T1	3	3	0	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
6/13/2024 10:20	66504	SMAN_T2	0	0	0	0	0	0	0.57	-1.85	0	2	2	0	2400	2400
6/13/2024 10:20	67605	WARW_T1	3	1	-2	0.43	0.8	0.37	-0.82	-0.8	0	0	0	0	0	0
6/13/2024 10:20	15703	TANN_T2	1	1	0	5.5	5.8	0.3	0	0	0	0	0	0	0	0
6/13/2024 10:21	15702	TANN_T2	2	3	1	0.3	0.3	0	-0.25	-0.27	0	0	0	0	0	0
6/13/2024 10:21	56504	ROCK_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/13/2024 10:21	59201	THOM_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/13/2024 10:21	15703	TANN_T2	1	1	0	5.5	5.8	0.3	0	0	0	0	0	0	0	0
6/13/2024 10:21	59202	THOM_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/13/2024 10:21	66504	SMAN_T2	0	0	0	0	0	0	-0.92	-0.83	0	1	1	0	1200	1200
6/13/2024 10:21	56501	ROCK_T2	2	2	0	4.3	4.7	0.4	0.33	0.37	0	0	0	0	0	0
6/13/2024 10:21	66502	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/13/2024 10:22	43301	WATS_T2	1	3	2	0.4	0.17	-0.23	-1.91	-1.85	4	4	0	3600	3600	0
6/13/2024 10:22	67605	WARW_T1	3	1	-2	0.43	0.8	0.37	-0.8	-0.77	0	0	0	0	0	0
6/13/2024 10:22	66502	SMAN_T2	0	1	1	0	0.4	0.4	0.6	0.75	0	0	0	0	0	0
6/13/2024 10:24	46506	LOHA_T1	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
6/13/2024 10:25	27005	BELL_T1	4	0	-4	0.13	0	-0.13	-1.53	-1.48	0	0	0	0	0	0
6/13/2024 10:25	20401	ASHF_T2	3	5	2	0.4	0.4	0	0	0	0	0	0	0	0	0
6/13/2024 10:25	58001	WCAR_T1	3	3	0	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
6/13/2024 10:25	20403	ASHF_T2	4	1	-3	0.4	0.9	0.5	1.34	1.67	0	0	0	0	0	0
6/13/2024 10:25	15702	TANN_T2	2	3	1	0.3	0.3	0	-0.27	-0.26	0	0	0	0	0	0
6/13/2024 10:25	58003	WCAR_T1	1	2	1	1	0.5	-0.5	0.97	0.98	0	0	0	0	0	0
6/13/2024 10:25	43301	WATS_T2	1	3	2	0.4	0.17	-0.23	-0.96	-0.93	2	2	0	1800	1800	0
6/13/2024 10:25	67605	WARW_T1	3	1	-2	0.43	0.8	0.37	0	0	0	0	0	0	0	0
6/13/2024 10:25	15703	TANN_T2	1	1	0	5.5	5.8	0.3	0	0	0	0	0	0	0	0
6/13/2024 10:25	67603	WARW_T1	0	0	0	0	0	0	0.37	0.41	0	0	0	0	0	0
6/13/2024 10:26	41801	GOCI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/13/2024 10:26	20401	ASHF_T2	3	5	2	0.4	0.4	0	0.06	0.14	0	0	0	0	0	0
6/13/2024 10:26	20403	ASHF_T2	4	1	-3	0.4	0.9	0.5	0	0	0	0	0	0	0	0
6/13/2024 10:26	62102	ELAN_T1	0	0	0	0	0	0	1.04	1.04	0	0	0	0	0	0
6/13/2024 10:27	20403	ASHF_T2	4	1	-3	0.4	0.9	0.5	0.67	0.84	0	0	0	0	0	0
6/13/2024 10:27	20401	ASHF_T2	3	5	2	0.4	0.4	0	0	0	0	0	0	0	0	0
6/13/2024 10:29	25404	LAHA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/13/2024 10:29	41801	GOCI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/13/2024 10:29	40101	HUNT_T2	5	13	8	0.28	0.44	0.16	0.08	0.02	0	0	0	0	0	0
6/13/2024 10:29	25402	LAHA_T2	1	2	1	0.2	0.4	0.2	-0.32	-0.33	0	0	0	0	0	0
6/13/2024 10:30	25503	MADI_T1	1	1	0	0.6	0.4	-0.2	-0.83	-0.83	0	0	0	0	0	0
6/13/2024 10:30	25502	MADI_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/13/2024 10:30	42903	MIDD_T2	0	0	0	0	0	0	1.53	1.79	0	0	0	0	0	0
6/13/2024 10:30	25501	MADI_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/13/2024 10:33	64101	REFR_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
6/13/2024 10:34	64101	REFR_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
6/13/2024 10:34	65001	NEFF_T2	0	0	0	0	0	0	0.07	0.15	1	1	0	1200	1200	0
6/13/2024 10:36	67201	TEHI_T1	0	4	4	0	0	0	0.32	0.22	2	2	0	1500	1500	0
6/13/2024 10:36	67203	TEHI_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/13/2024 10:36	67502	WEWI_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/13/2024 10:36	67503	WEWI_T2	0	0	0	0	0	0	0.16	0.2	0	0	0	0	0	0
6/13/2024 10:36	64101	REFR_T1	0	0	0	0	0	0	0.88	0.97	0	0	0	0	0	0
6/13/2024 10:37	64101	REFR_T1	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
6/13/2024 10:38	49803	UNIV_T1	1	2	1	0.6	0.8	0.2	-0.72	-0.77	0	0	0	0	0	0
6/13/2024 10:39	10805	CHHI_T2	2	5	3	5.5	2.9	-2.6	-0.46	-0.46	1	1	0	600	600	0
6/13/2024 10:40	58006	WCAR_T2	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
6/13/2024 10:41	21203	ECAR_T1	2	2	0	0.6	0.75	0.15	0.81	-0.03	0	0	0	0	0	0
6/13/2024 10:43	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 10:43	10801	CHHI_T1	3	4	1	0.77	0.65	-0.12	-0.84	-0.83	2	2	0	1500	1500	0
6/13/2024 10:43	10805	CHHI_T2	2	5	3	5.5	2.9	-2.6	-0.46	-0.46	1	1	0	600	600	0
6/13/2024 10:43	21206	ECAR_T2	1	1	0	7.4	7.6	0.2	0.64	0.75	0	0	0	0	0	0
6/13/2024 10:44	45702	LIND_T2	0	2	2	0	0.5	0.5	-0.3	-0.3	0	0	0	0	0	0
6/13/2024 10:44	10805	CHHI_T2	2	5	3	5.5	2.9	-2.6	-0.46	-0.46	1	1	0	600	600	0
6/13/2024 10:45	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/13/2024 10:45	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/13/2024 10:45	45702	LIND_T2	2	2	0	0.3	0.6	0.3	-0.3	-0.3	0	0	0	0	0	0
6/13/2024 10:46	44703	MUNC_T2	0	0	0	0	0	0	0.96	1.03	0	0	0	0	0	0
6/13/2024 10:46	65502	MOJO_T2	0	0	0	0	0	0	-0.66	-0.68	1	1	0	900	900	0
6/13/2024 10:47	55001	NEWP_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/13/2024 10:47	55002	NEWP_T1	6	6	0	0.87	0.83	-0.04	-0.11	-0.1	0	0	0	0	0	0
6/13/2024 10:47	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/13/2024 10:48	55003	NEWP_T2	6	3	-3	0.17	0.1	-0.07	0.08	0.1	0	0	0	0	0	0
6/13/2024 10:48	65502	MOJO_T2	0	0	0	0	0	0	-0.66	-0.68	1	1	0	900	900	0
6/13/2024 10:48	13303	ORVI_T1	0	0	0	0	0	0	0.31	0.43	0	0	0	0	0	0
6/13/2024 10:50	43801	SWIL_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
6/13/2024 10:50	43802	SWIL_T1	0	0	0	0	0	0	-0.07	-0.05	1	1	0	600	600	0
6/13/2024 10:50	40602	PIGR_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/13/2024 10:50	40601	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 10:50	55001	NEWP_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/13/2024 10:50	55002	NEWP_T1	6	6	0	0.87	0.83	-0.04	-0.34	-0.31	0	0	0	0	0	0
6/13/2024 10:51	66703	STRA_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/13/2024 10:51	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/13/2024 10:51	14801	TREI_T2	2	2	0	0.65	0.6	-0.05	0.7	0.72	0	0	0	0	0	0
6/13/2024 10:51	14802	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 10:51	66502	SMAN_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/13/2024 10:51	66701	STRA_T1	0	0	0	0	0	0	0.42	0.49	1	1	0	600	600	0
6/13/2024 10:51	66503	SMAN_T2	0	0	0	0	0	0	0.7	0.72	0	0	0	0	0	0
6/13/2024 10:52	58006	WCAR_T2	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
6/13/2024 10:53	66703	STRA_T1	2	2	0	0.1	0.1	0	0.62	0.5	0	0	0	0	0	0
6/13/2024 10:53	66701	STRA_T1	0	0	0	0	0	0	0.42	0.49	1	1	0	600	600	0
6/13/2024 10:53	67201	TEHI_T1	4	1	-3	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
6/13/2024 10:53	67203	TEHI_T1	1	0	-1	0.2	0	-0.2	1.79	1.55	4	4	0	3000	3000	0
6/13/2024 10:55	18001	ZION_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
6/13/2024 10:58	61303	EARL_T1	0	0	0	0	0	0	1.13	0.91	0	0	0	0	0	0
6/13/2024 10:59	64702	LITI_T2	0	0	0	0	0	0	0.07	0.22	0	0	0	0	0	0
6/13/2024 10:59	40101	HUNT_T2	12	5	-7	0.31	0.55	0.24	0.02	0.02	0	0	0	0	0	0
6/13/2024 11:00	64702	LITI_T2	0	0	0	0	0	0	0.07	0.22	0	0	0	0	0	0
6/13/2024 11:01	64702	LITI T2	0	0	0	0	0	0	0.07	0.22	0	0	0	0	0	0
6/13/2024 11:01	40101	HUNT_T2	2	7	5	0.55	0.43	-0.12	0.02	0.02	0	0	0	0	0	0
6/13/2024 11:04	56504	ROCK_T2	1	3	2	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/13/2024 11:04	56503	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/13/2024 11:04	56501	ROCK_T2	1	5	4	0.6	0.66	0.06	0.23	-0.98	0	0	0	0	0	0
6/13/2024 11:07	60803	BUCK_T1	0	0	0	0	0	0	-0.98	-0.97	1	1	0	600	600	0
6/13/2024 11:08	24204	PROV_T3	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
6/13/2024 11:08	60803	BUCK_T1	0	0	0	0	0	0	-0.98	-0.97	1	1	0	600	600	0
6/13/2024 11:08	56803	BENV_T1	2	1	-1	0.3	1.6	1.3	0	0	0	0	0	0	0	0
6/13/2024 11:08	56802	BENV_T2	68	21	-47	0.3	0.5	0.2	-1.04	-1.03	0	0	0	0	0	0
6/13/2024 11:08	56801	BENV_T1	17	9	-8	0.57	0.5	-0.07	-1.14	-1.09	2	2	0	1200	1200	0
6/13/2024 11:08	24201	PROV_T3	1	1	0	7	7.3	0.3	1.12	-1.1	1	1	0	1200	1200	0
6/13/2024 11:08	22001	BOHE_T1	2	3	1	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
6/13/2024 11:08	22003	BOHE_T1	6	7	1	1.1	1.13	0.03	0	0	0	0	0	0	0	0
6/13/2024 11:09	24902	WHHA_T1	1	1	0	0.4	0.4	0	0.63	0.63	0	0	0	0	0	0
6/13/2024 11:09	56801	BENV_T1	17	9	-8	0.57	0.5	-0.07	-1.14	-1.09	2	2	0	1200	1200	0
6/13/2024 11:09	56803	BENV_T1	2	1	-1	0.3	1.6	1.3	0	0	0	0	0	0	0	0
6/13/2024 11:09	56802	BENV_T2	68	21	-47	0.3	0.5	0.2	-2.08	-2.05	0	0	0	0	0	0
6/13/2024 11:11	60803	BUCK_T1	0	0	0	0	0	0	-0.98	-0.97	1	1	0	600	600	0
6/13/2024 11:11	56801	BENV_T1	17	9	-8	0.57	0.5	-0.07	-1.14	-1.09	2	2	0	1200	1200	0
6/13/2024 11:11	56803	BENV_T1	2	1	-1	0.3	1.6	1.3	0	0	0	0	0	0	0	0
6/13/2024 11:11	56802	BENV_T2	68	21	-47	0.3	0.5	0.2	-2.08	-2.05	0	0	0	0	0	0
6/13/2024 11:12	52402	GRPA_T2	2	4	2	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
6/13/2024 11:12	52403	GRPA_T2	1	1	0	0.1	0	-0.1	0.45	0.4	0	0	0	0	0	0
6/13/2024 11:12	52401	GRPA_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
6/13/2024 11:12	60803	BUCK_T1	0	0	0	0	0	0	-0.98	-0.97	1	1	0	600	600	0
6/13/2024 11:12	63804	HEMP_T1	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
6/13/2024 11:12	56802	BENV_T2	68	21	-47	0.3	0.5	0.2	-5.21	-5.13	0	0	0	0	0	0
6/13/2024 11:12	56803	BENV_T1	2	1	-1	0.3	1.6	1.3	0	0	0	0	0	0	0	0
6/13/2024 11:12	63802	HEMP_T1	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
6/13/2024 11:12	56801	BENV_T1	17	9	-8	0.57	0.5	-0.07	-0.57	-0.54	1	1	0	600	600	0
6/13/2024 11:13	56801	BENV_T1	17	9	-8	0.57	0.5	-0.07	-1.14	-1.09	2	2	0	1200	1200	0
6/13/2024 11:13	56803	BENV_T1	2	1	-1	0.3	1.6	1.3	0	0	0	0	0	0	0	0
6/13/2024 11:13	56802	BENV_T2	68	21	-47	0.3	0.5	0.2	-4.16	-4.11	0	0	0	0	0	0
6/13/2024 11:14	23202	HIRU_T2	2	1	-1	0.15	0.3	0.15	0.11	0.12	0	0	0	0	0	0
6/13/2024 11:14	52403	GRPA_T2	1	1	0	0.1	0	-0.1	0.45	0.4	0	0	0	0	0	0
6/13/2024 11:14	41801	GOCI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/13/2024 11:14	23201	HIRU_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/13/2024 11:14	23203	HIRU_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/13/2024 11:14	52402	GRPA_T2	2	4	2	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
6/13/2024 11:15	56802	BENV_T2	21	14	-7	0.49	0.59	0.1	-1.04	-1.03	0	0	0	0	0	0
6/13/2024 11:15	25404	LAHA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/13/2024 11:15	25402	LAHA_T2	3	2	-1	0.43	0.8	0.37	-0.35	-0.31	0	0	0	0	0	0
6/13/2024 11:18	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 11:18	64101	REFR_T1	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
6/13/2024 11:18	42902	MIDD_T2	0	0	0	0	0	0	-0.07	-0.11	1	1	0	600	600	0
6/13/2024 11:19	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 11:19	42902	MIDD_T2	0	0	0	0	0	0	-0.07	-0.11	1	1	0	600	600	0
6/13/2024 11:20	54602	SUMM_T2	0	0	0	0	0	0	-2.11	-2.1	1	1	0	600	600	0
6/13/2024 11:22	66501	SMAN_T2	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/13/2024 11:22	66502	SMAN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/13/2024 11:22	64101	REFR_T1	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
6/13/2024 11:22	66505	SMAN_T2	0	0	0	0	0	0	0.83	0.67	2	3	1	1500	1700	200
6/13/2024 11:23	67502	WEWI_T2	0	2	2	0	0.85	0.85	-1.94	-1.89	3	3	0	2700	2700	0
6/13/2024 11:23	64101	REFR_T1	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
6/13/2024 11:25	46506	LOHA_T1	0	1	1	0	0.7	0.7	-0.33	-0.4	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/13/2024 11:26	14204	EALL_T2	0	2	2	0	0.35	0.35	-0.21	-0.24	0	0	0	0	0	0
6/13/2024 11:26	54504	ENOL_T2	0	0	0	0	0	0	-1.32	-1.26	1	1	0	600	600	0
6/13/2024 11:27	53601	DALM_T2	1	1	0	0.4	0.2	-0.2	0.5	0.5	0	0	0	0	0	0
6/13/2024 11:27	46506	LOHA_T1	0	1	1	0	0.7	0.7	-0.33	-0.4	0	0	0	0	0	0
6/13/2024 11:29	14204	EALL_T2	0	2	2	0	0.35	0.35	-0.21	-0.24	0	0	0	0	0	0
6/13/2024 11:29	40101	HUNT_T2	5	20	15	0.36	0.4	0.04	0.05	0.12	0	0	0	0	0	0
6/13/2024 11:30	42902	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 11:30	42903	MIDD_T2	0	2	2	0	1.1	1.1	1.73	0.83	0	1	1	0	1200	1200
6/13/2024 11:31	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/13/2024 11:31	12701	MACU_T1	0	1	1	0	0.1	0.1	0.25	0.27	0	0	0	0	0	0
6/13/2024 11:31	43202	MVIL_T2	1	2	1	1	0.7	-0.3	-0.51	-0.5	0	0	0	0	0	0
6/13/2024 11:32	40101	HUNT_T2	6	35	29	0.38	0.28	-0.1	0.05	0.12	0	0	0	0	0	0
6/13/2024 11:32	12705	MACU_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/13/2024 11:32	12701	MACU_T1	0	1	1	0	0.1	0.1	0.25	0.27	0	0	0	0	0	0
6/13/2024 11:32	12703	MACU_T2	1	0	-1	0.1	0	-0.1	-0.52	-0.52	0	0	0	0	0	0
6/13/2024 11:32	64902	MILL_T2	0	0	0	0	0	0	-1.67	-1.66	2	2	0	1800	1800	0
6/13/2024 11:32	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/13/2024 11:33	12803	MICK_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/13/2024 11:33	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/13/2024 11:33	43202	MVIL_T2	1	2	1	1	0.7	-0.3	-0.51	-0.5	0	0	0	0	0	0
6/13/2024 11:33	12801	MICK_T1	0	0	0	0	0	0	-0.46	-0.43	1	1	0	600	600	0
6/13/2024 11:34	43201	MVIL_T2	0	0	0	0	0	0	-0.21	-0.14	0	0	0	0	0	0
6/13/2024 11:34	59302	MCAL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 11:34	65901	SAKR_T2	1	1	0	7.4	7.7	0.3	-0.68	-0.63	2	2	0	1500	1500	0
6/13/2024 11:34	59301	MCAL_T1	0	1	1	0	0.3	0.3	-1.17	-1.18	0	0	0	0	0	0
6/13/2024 11:34	43202	MVIL_T2	1	2	1	1	0.7	-0.3	0	0	0	0	0	0	0	0
6/13/2024 11:35	13606	RICH_T2	1	1	0	8.1	8.1	0	1.56	1.62	0	0	0	0	0	0
6/13/2024 11:35	40602	PIGR_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
6/13/2024 11:35	13601	RICH_T2	1	0	-1	5.1	0	-5.1	0	0	0	0	0	0	0	0
6/13/2024 11:35	40601	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 11:35	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/13/2024 11:36	42201	SHEN_T2	0	0	0	0	0	0	0.67	0.65	0	0	0	0	0	0
6/13/2024 11:37	57006	WHHI_T2	1	2	1	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
6/13/2024 11:37	57002	WHHI_T2	0	0	0	0	0	0	-0.3	-0.19	0	0	0	0	0	0
6/13/2024 11:37	57003	WHHI_T2	1	2	1	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
6/13/2024 11:38	44302	BEAV_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/13/2024 11:38	44301	BEAV_T2	12	18	6	0.33	0.46	0.13	0.22	-0.07	2	2	0	1500	1500	0
6/13/2024 11:39	14401	SSLA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/13/2024 11:39	14402	SSLA_T1	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/13/2024 11:39	60803	BUCK_T1	0	0	0	0	0	0	-0.97	-0.96	1	1	0	600	600	0
6/13/2024 11:39	14403	SSLA_T1	1	0	-1	0.1	0	-0.1	1.18	1.17	0	0	0	0	0	0
6/13/2024 11:39	14404	SSLA_T1	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0	0
6/13/2024 11:40	67803	WLAN_T1	0	0	0	0	0	0	-0.52	-0.49	0	0	0	0	0	0
6/13/2024 11:40	44301	BEAV_T2	12	18	6	0.33	0.46	0.13	0.45	-0.14	4	4	0	3000	3000	0
6/13/2024 11:40	44302	BEAV_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/13/2024 11:40	67804	WLAN_T1	3	1	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/13/2024 11:41	44302	BEAV_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/13/2024 11:41	44301	BEAV_T2	12	18	6	0.33	0.46	0.13	0.45	-0.14	4	4	0	3000	3000	0
6/13/2024 11:42	46506	LOHA_T1	1	1	0	0.7	0.6	-0.1	-0.4	-0.36	0	0	0	0	0	0
6/13/2024 11:42	44302	BEAV_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/13/2024 11:42	44301	BEAV_T2	12	18	6	0.33	0.46	0.13	0.22	-0.07	2	2	0	1500	1500	0
6/13/2024 11:42	60305	TWVA_T2	0	0	0	0	0	0	-1.45	-1.44	2	2	0	2400	2400	0
6/13/2024 11:42	45502	DERR_T2	21	36	15	0.28	0.25	-0.03	0.35	0.34	1	1	0	300	300	0
6/13/2024 11:42	45501	DERR_T2	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0	0
6/13/2024 11:43	53903	HALI_T2	5	8	3	0.84	0.7	-0.14	0	0	0	0	0	0	0	0
6/13/2024 11:43	62602	ENGL_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
6/13/2024 11:43	53902	HALI_T2	3	3	0	2.23	2.63	0.4	-0.57	-0.55	0	0	0	0	0	0
6/13/2024 11:45	40901	JESH_T1	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
6/13/2024 11:45	40902	JESH_T1	0	1	1	0	0	0	-0.79	-0.66	2	2	0	1200	1200	0
6/13/2024 11:46	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	0.52	0.59	1	1	0	900	900	0
6/13/2024 11:48	40902	JESH_T1	0	1	1	0	0	0	-0.79	-0.66	2	2	0	1200	1200	0
6/13/2024 11:48	65501	MOJO_T1	0	0	0	0	0	0	-1.18	-1.16	1	1	0	1200	1200	0
6/13/2024 11:48	57303	MOAL_T2	1	1	0	7.3	7.1	-0.2	0	0	0	0	0	0	0	0
6/13/2024 11:48	57302	MOAL_T2	0	0	0	0	0	0	-1.19	-1.16	1	1	0	1200	1200	0
6/13/2024 11:48	40901	JESH_T1	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
6/13/2024 11:48	57306	MOAL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/13/2024 11:49	65501	MOJO_T1	0	0	0	0	0	0	-1.18	-1.16	1	1	0	1200	1200	0
6/13/2024 11:51	56503	ROCK_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
6/13/2024 11:51	56504	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/13/2024 11:51	56501	ROCK_T2	6	7	1	0.53	0.55	0.02	-0.92	-0.88	0	0	0	0	0	0
6/13/2024 11:52	56501	ROCK_T2	6	7	1	0.53	0.55	0.02	0	0	0	0	0	0	0	0
6/13/2024 11:52	56504	ROCK_T2	0	1	1	0	0.4	0.4	0.12	0.14	0	0	0	0	0	0
6/13/2024 11:52	67605	WARW_T1	1	2	1	1	0.5	-0.5	-0.71	-0.69	0	0	0	0	0	0
6/13/2024 11:52	56503	ROCK_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
6/13/2024 11:52	49803	UNIV_T1	1	1	0	0.9	0.8	-0.1	-0.61	-0.52	0	0	0	0	0	0
6/13/2024 11:53	67303	WYOM_T2	0	0	0	0	0	0	-1.1	-1.02	0	0	0	0	0	0
6/13/2024 11:54	61701	ELIZ_T1	2	2	0	1.85	1.95	0.1	0	0	0	0	0	0	0	0
6/13/2024 11:54	67605	WARW_T1	1	2	1	1	0.5	-0.5	-0.71	-0.69	0	0	0	0	0	0
6/13/2024 11:54	43304	WATS_T2	1	0	-1	0.2	0	-0.2	-0.31	-0.24	0	0	0	0	0	0
6/13/2024 11:54	61703	ELIZ_T1	0	0	0	0	0	0	-2.03	-2.02	2	2	0	2100	2100	0
6/13/2024 11:54	43301	WATS_T2	2	3	1	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
6/13/2024 11:55	57006	WHHI_T2	0	2	2	0	0.15	0.15	0.76	0.76	1	1	0	600	600	0
6/13/2024 11:55	57003	WHHI_T2	1	2	1	1	0.75	-0.25	0	0	0	0	0	0	0	0
6/13/2024 11:55	60902	DONG_T2	0	0	0	0	0	0	1.27	1.29	0	0	0	0	0	0
6/13/2024 11:55	60901	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/13/2024 11:56	43301	WATS_T2	2	3	1	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
6/13/2024 11:56	43304	WATS_T2	1	0	-1	0.2	0	-0.2	-0.31	-0.24	0	0	0	0	0	0
6/13/2024 11:56	57006	WHHI_T2	0	2	2	0	0.15	0.15	0.76	0.76	1	1	0	600	600	0
6/13/2024 11:56	57003	WHHI_T2	1	2	1	1	0.75	-0.25	0	0	0	0	0	0	0	0
6/13/2024 11:59	40101	HUNT_T2	19	36	17	0.33	0.31	-0.02	0.09	-0.02	0	0	0	0	0	0
6/13/2024 12:00	50105	HARR_T3	6	0	-6	6.25	6.37	0.12	0	0	0	0	0	0	0	0
6/13/2024 12:00	57306	MOAL_T2	1	0	-1	0.3	0	-0.3	-2.85	-2.83	1	1	0	1200	1200	0
6/13/2024 12:00	50107	HARR_T3	1	1	0	6.5	6.7	0.2	0	0	0	0	0	0	0	0
6/13/2024 12:00	50202	HARR_T3	0	0	0	0	0	0	-1.37	-1.37	0	0	0	0	0	0
6/13/2024 12:00	57303	MOAL_T2	1	1	0	7.1	7.6	0.5	0	0	0	0	0	0	0	0
6/13/2024 12:00	64704	LITI_T1	0	0	0	0	0	0	0.32	0.32	1	1	0	600	600	0
6/13/2024 12:01	53902	HALI_T2	3	3	0	2.63	2.3	-0.33	0	0	0	0	0	0	0	0
6/13/2024 12:01	58401	MORO_T1	0	0	0	0	0	0	-1.25	-1.21	2	2	0	1200	1200	0
6/13/2024 12:01	53903	HALI_T2	8	5	-3	0.7	0.82	0.12	-0.04	-0.04	0	0	0	0	0	0
6/13/2024 12:01	28801	LAKE_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/13/2024 12:01	41801	GOO_T2	1	3	2	1	0.27	-0.73	0	0	0	0	0	0	0	0
6/13/2024 12:01	28805	LAKE_T1	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
6/13/2024 12:02	58401	MORO_T1	0	0	0	0	0	0	-2.49	-2.42	4	4	0	2400	2400	0
6/13/2024 12:04	66901	SHIL_T2	1	0	-1	0.2	0	-0.2	-0.6	-0.59	0	0	0	0	0	0
6/13/2024 12:04	66902	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/13/2024 12:04	66903	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 12:06	14402	SSLA_T1	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
6/13/2024 12:06	14404	SSLA_T1	1	1	0	4.8	4.6	-0.2	0	0	0	0	0	0	0	0
6/13/2024 12:06	57006	WHHI_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/13/2024 12:06	14401	SSLA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/13/2024 12:06	57003	WHHI_T2	2	1	-1	0.75	0.2	-0.55	0	0	0	0	0	0	0	0
6/13/2024 12:06	14403	SSLA_T1	0	0	0	0	0	0	1.19	1.22	0	0	0	0	0	0
6/13/2024 12:06	57004	WHHI_T2	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
6/13/2024 12:07	14401	SSLA_T1	0	2	2	0	0.2	0.2	-0.17	-0.16	0	0	0	0	0	0
6/13/2024 12:07	14402	SSLA_T1	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
6/13/2024 12:07	14404	SSLA_T1	1	1	0	4.8	4.6	-0.2	0	0	0	0	0	0	0	0
6/13/2024 12:08	61102	BERK_T5	0	0	0	0	0	0	1.73	1.68	3	3	0	900	900	0
6/13/2024 12:09	45501	DERR_T2	2	2	0	0.85	0.85	0	1.1	0.99	2	2	0	1800	1800	0
6/13/2024 12:09	45502	DERR_T2	27	45	18	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
6/13/2024 12:09	46506	LOHA_T1	1	2	1	0.4	0.6	0.2	-0.65	-0.56	0	0	0	0	0	0
6/13/2024 12:09	10801	CHHI_T1	8	7	-1	0.99	1.03	0.04	-1.34	-1.25	3	3	0	2100	2100	0
6/13/2024 12:09	46504	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 12:10	60803	BUCK_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	600	600	0
6/13/2024 12:11	58006	WCAR_T2	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
6/13/2024 12:11	54506	ENOL_T2	0	0	0	0	0	0	-0.29	-0.36	1	1	0	600	600	0
6/13/2024 12:12	46504	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 12:12	46506	LOHA_T1	1	2	1	0.4	0.6	0.2	-0.33	-0.28	0	0	0	0	0	0
6/13/2024 12:13	40901	JESH_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
6/13/2024 12:13	46506	LOHA_T1	1	2	1	0.4	0.6	0.2	-0.33	-0.28	0	0	0	0	0	0
6/13/2024 12:13	64204	KINZ_T1	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
6/13/2024 12:13	67002	STHI_T2	0	0	0	0	0	0	1.12	1.11	0	0	0	0	0	0
6/13/2024 12:13	46504	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 12:13	64201	KINZ_T1	0	0	0	0	0	0	-0.39	-0.39	4	4	0	2100	2100	0
6/13/2024 12:13	64203	KINZ_T1	1	2	1	0.5	0.75	0.25	0	0	0	0	0	0	0	0
6/13/2024 12:13	40902	JESH_T1	0	1	1	0	0.6	0.6	-0.28	-0.58	2	2	0	1200	1200	0
6/13/2024 12:14	45502	DERR_T2	27	45	18	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
6/13/2024 12:14	45501	DERR_T2	2	2	0	0.85	0.85	0	2.19	1.97	4	4	0	3600	3600	0
6/13/2024 12:14	46802	HEPB_T1	3	2	-1	0.37	0.45	0.08	-0.02	0	0	0	0	0	0	0
6/13/2024 12:15	64201	KINZ_T1	0	0	0	0	0	0	-0.39	-0.39	4	4	0	2100	2100	0
6/13/2024 12:15	46801	HEPB_T2	2	2	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/13/2024 12:15	64204	KINZ_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
6/13/2024 12:15	64203	KINZ_T1	2	2	0	0.75	1.5	0.75	0	0	0	0	0	0	0	0
6/13/2024 12:15	46803	HEPB_T2	1	1	0	0.5	1	0.5	0.6	0.61	0	0	0	0	0	0
6/13/2024 12:16	46801	HEPB_T2	2	2	0	0.5	0.3	-0.2	0.94	0.97	0	0	0	0	0	0
6/13/2024 12:16	46803	HEPB_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
6/13/2024 12:19	64101	REFR_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
6/13/2024 12:20	64101	REFR_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
6/13/2024 12:21	64101	REFR_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
6/13/2024 12:23	58001	WCAR_T1	2	5	3	0.15	0.34	0.19	0	0	0	0	0	0	0	0
6/13/2024 12:23	51603	DUKE_T1	0	0	0	0	0	0	0.04	0.12	0	0	0	0	0	0
6/13/2024 12:23	58003	WCAR_T1	1	3	2	0.7	0.77	0.07	0.43	0.45	1	1	0	600	600	0
6/13/2024 12:24	58001	WCAR_T1	2	5	3	0.15	0.34	0.19	0	0	0	0	0	0	0	0
6/13/2024 12:24	58003	WCAR_T1	1	3	2	0.7	0.77	0.07	0.43	0.45	1	1	0	600	600	0
6/13/2024 12:25	67901	WNHO_T2	0	0	0	0	0	0	0.28	0.39	1	1	0	900	900	0
6/13/2024 12:25	56803	BENV_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 12:25	56801	BENV_T1	2	8	6	0.55	0.8	0.25	-0.45	-0.43	1	1	0	600	600	0
6/13/2024 12:26	56803	BENV_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 12:26	56801	BENV_T1	2	8	6	0.55	0.8	0.25	-0.45	-0.43	1	1	0	600	600	0
6/13/2024 12:26	58006	WCAR_T2	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
6/13/2024 12:26	56602	HAMP_T2	30	48	18	0.42	0.41	-0.01	0	0	0	0	0	0	0	0
6/13/2024 12:27	16102	BING_T2	1	5	4	0.2	0.52	0.32	0	0	0	0	0	0	0	0
6/13/2024 12:27	16103	BING_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/13/2024 12:27	61505	EPET_T1	0	0	0	0	0	0	0.88	0.89	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/13/2024 12:27	16101	BING_T2	0	1	1	0	1	1	0.76	0.78	0	0	0	0	0	0
6/13/2024 12:28	40101	HUNT_T2	16	56	40	0.38	0.26	-0.12	0	0.13	0	0	0	0	0	0
6/13/2024 12:28	63804	HEMP_T1	1	1	0	7.7	7	-0.7	-0.09	-0.07	0	0	0	0	0	0
6/13/2024 12:29	45801	HEGI_T1	0	0	0	0	0	0	0.3	0.26	1	1	0	900	900	0
6/13/2024 12:30	40101	HUNT_T2	27	58	31	0.32	0.39	0.07	0	0.13	0	0	0	0	0	0
6/13/2024 12:31	52404	GRPA_T2	0	0	0	0	0	0	0.67	0.63	0	0	0	0	0	0
6/13/2024 12:31	52002	LING_T2	0	0	0	0	0	0	0.6	0.62	0	0	0	0	0	0
6/13/2024 12:31	42902	MIDD_T2	1	0	-1	0.3	0	-0.3	-0.17	-0.15	1	1	0	600	600	0
6/13/2024 12:31	52402	GRPA_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/13/2024 12:31	42903	MIDD_T2	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/13/2024 12:31	52403	GRPA_T2	2	6	4	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
6/13/2024 12:31	52004	LING_T2	1	1	0	0.6	1.3	0.7	0	0	0	0	0	0	0	0
6/13/2024 12:31	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 12:32	52002	LING_T2	0	0	0	0	0	0	0.6	0.62	0	0	0	0	0	0
6/13/2024 12:32	13502	MCMI_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/13/2024 12:32	52004	LING_T2	1	1	0	0.6	1.3	0.7	0	0	0	0	0	0	0	0
6/13/2024 12:33	52004	LING_T2	1	1	0	0.6	1.3	0.7	0	0	0	0	0	0	0	0
6/13/2024 12:33	52002	LING_T2	0	0	0	0	0	0	0.6	0.62	0	0	0	0	0	0
6/13/2024 12:34	52004	LING_T2	1	1	0	0.6	1.3	0.7	0	0	0	0	0	0	0	0
6/13/2024 12:34	52002	LING_T2	0	0	0	0	0	0	1.2	1.24	0	0	0	0	0	0
6/13/2024 12:35	42903	MIDD_T2	2	0	-2	0.6	0	-0.6	1.29	1.72	0	0	0	0	0	0
6/13/2024 12:35	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 12:35	42902	MIDD_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/13/2024 12:36	24902	WHHA_T1	1	1	0	0.9	1.2	0.3	0.66	0.67	0	0	0	0	0	0
6/13/2024 12:36	65601	QVIL_T2	0	0	0	0	0	0	-0.16	-0.21	1	1	0	900	900	0
6/13/2024 12:37	24603	VARD_T2	8	12	4	1	0.92	-0.08	0	0	0	0	0	0	0	0
6/13/2024 12:37	55101	WERT_T1	0	0	0	0	0	0	-1.34	-1.39	3	3	0	2400	2400	0
6/13/2024 12:37	24602	VARD_T2	42	399	357	0.23	0.38	0.15	-0.73	-0.71	0	0	0	0	0	0
6/13/2024 12:37	55103	WERT_T1	1	1	0	7.7	5.1	-2.6	0	0	0	0	0	0	0	0
6/13/2024 12:39	24603	VARD_T2	8	12	4	1	0.92	-0.08	-0.65	-0.64	1	1	0	600	600	0
6/13/2024 12:39	24602	VARD_T2	42	399	357	0.23	0.38	0.15	0	0	0	0	0	0	0	0
6/13/2024 12:39	46506	LOHA_T1	1	1	0	0.6	0.4	-0.2	-0.22	-0.17	0	0	0	0	0	0
6/13/2024 12:39	41602	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	1	1	0	600	600	0
6/13/2024 12:39	46504	LOHA_T1	1	2	1	0.1	0.8	0.7	0	0	0	0	0	0	0	0
6/13/2024 12:39	67605	WARW_T1	1	2	1	1.1	0.8	-0.3	-1.99	-1.94	0	0	0	0	0	0
6/13/2024 12:40	24102	EHAZ_T1	0	0	0	0	0	0	0.02	-0.13	0	0	0	0	0	0
6/13/2024 12:40	24101	EHAZ_T1	21	32	11	0.84	0.48	-0.36	0	0	0	0	0	0	0	0
6/13/2024 12:40	24105	EHAZ_T1	4	4	0	5.93	5.85	-0.08	0	0	0	0	0	0	0	0
6/13/2024 12:40	46504	LOHA_T1	1	2	1	0.1	0.8	0.7	0	0	0	0	0	0	0	0
6/13/2024 12:40	24104	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 12:40	46506	LOHA_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
6/13/2024 12:40	53602	DALM_T2	0	0	0	0	0	0	-0.47	-0.47	1	1	0	600	600	0
6/13/2024 12:40	53601	DALM_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/13/2024 12:40	46505	LOHA_T1	0	0	0	0	0	0	-0.2	-0.19	1	1	0	600	600	0
6/13/2024 12:40	46501	LOHA_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
6/13/2024 12:41	46504	LOHA_T1	1	2	1	0.1	0.8	0.7	0	0	0	0	0	0	0	0
6/13/2024 12:41	53502	EVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/13/2024 12:41	53501	EVIL_T2	0	1	1	0	0.8	0.8	-1.69	-1.81	6	8	2	4200	4600	400
6/13/2024 12:41	46501	LOHA_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
6/13/2024 12:41	46506	LOHA_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
6/13/2024 12:42	53501	EVIL_T2	0	1	1	0	0.8	0.8	-0.85	-0.91	3	4	1	2100	2300	200
6/13/2024 12:42	58006	WCAR_T2	0	0	0	0	0	0	0.61	0.63	0	0	0	0	0	0
6/13/2024 12:42	53502	EVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/13/2024 12:43	54506	ENOL_T2	0	0	0	0	0	0	-0.29	-0.27	1	0	-1	600	0	-600
6/13/2024 12:43	41801	GOCI_T2	3	5	2	0.13	0.34	0.21	0	0	0	0	0	0	0	0
6/13/2024 12:44	53502	EVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/13/2024 12:44	53501	EVIL_T2	0	1	1	0	0.8	0.8	-0.85	-0.91	3	4	1	2100	2300	200
6/13/2024 12:45	40101	HUNT_T2	55	28	-27	0.31	0.36	0.05	0.13	0.04	0	0	0	0	0	0
6/13/2024 12:46	12701	MACU_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
6/13/2024 12:47	42901	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/13/2024 12:47	45801	HEGI_T1	0	0	0	0	0	0	0.26	0.41	1	1	0	900	900	0
6/13/2024 12:47	52001	LING_T1	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
6/13/2024 12:47	42902	MIDD_T2	0	0	0	0	0	0	-0.15	-0.05	1	1	0	600	600	0
6/13/2024 12:48	12701	MACU_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
6/13/2024 12:51	42802	SELI_T1	0	0	0	0	0	0	-1.41	-1.44	1	1	0	900	900	0
6/13/2024 12:51	64101	REFR_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
6/13/2024 12:52	58006	WCAR_T2	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
6/13/2024 12:53	22001	BOHE_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
6/13/2024 12:53	22002	BOHE_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
6/13/2024 12:53	61102	BERK_T5	0	0	0	0	0	0	1.06	1.47	2	2	0	600	600	0
6/13/2024 12:53	22003	BOHE_T1	5	5	0	1.34	1.24	-0.1	0	0	0	0	0	0	0	0
6/13/2024 12:54	61102	BERK_T5	0	0	0	0	0	0	0.53	0.73	1	1	0	300	300	0
6/13/2024 12:54	42802	SELI_T1	0	0	0	0	0	0	-1.41	-1.44	1	1	0	900	900	0
6/13/2024 12:55	61102	BERK_T5	0	0	0	0	0	0	1.06	1.47	2	2	0	600	600	0
6/13/2024 12:56	46004	BERW_T2	0	0	0	0	0	0	0.71	0.75	0	0	0	0	0	0
6/13/2024 12:56	46506	LOHA_T1	1	1	0	0.4	0.1	-0.3	-0.17	-0.16	0	0	0	0	0	0
6/13/2024 12:56	61101	BERK_T5	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
6/13/2024 12:56	61102	BERK_T5	0	0	0	0	0	0	1.06	1.47	2	2	0	600	600	0
6/13/2024 12:56	46504	LOHA_T1	2	2	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/13/2024 12:57	45501	DERR_T2	2	3	1	0.95	0.63	-0.32	0.94	0.92	2	2	0	1800	1800	0
6/13/2024 12:57	45502	DERR_T2	27	10	-17	0.45	0.22	-0.23	0	0	0	0	0	0	0	0
6/13/2024 12:58	63801	HEMP_T1	0	0	0	0	0	0	-0.38	-0.46	1	1	0	900	900	0
6/13/2024 12:58	63804	HEMP_T1	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 12:58	53901	HALI_T2	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
6/13/2024 12:58	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 12:58	53903	HALI_T2	5	5	0	0.62	0.5	-0.12	0	0	0	0	0	0	0	0
6/13/2024 12:58	53902	HALI_T2	3	3	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
6/13/2024 12:59	52004	LING_T2	1	1	0	1.3	0.2	-1.1	0	0	0	0	0	0	0	0
6/13/2024 12:59	52002	LING_T2	0	5	5	0	0	0	0.66	0.69	0	0	0	0	0	0
6/13/2024 13:00	40101	HUNT_T2	22	18	-4	0.42	0.39	-0.03	0.04	0.06	0	0	0	0	0	0
6/13/2024 13:00	41204	KENM_T2	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
6/13/2024 13:00	45402	WBLO_T2	1	1	0	0.7	0.7	0	-0.27	-0.25	0	0	0	0	0	0
6/13/2024 13:03	46506	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/13/2024 13:03	46504	LOHA_T1	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
6/13/2024 13:03	52002	LING_T2	0	8	8	0	0.2	0.2	0.66	0.69	0	0	0	0	0	0
6/13/2024 13:03	13905	SEID_T1	0	0	0	0	0	0	-0.56	-0.54	1	1	0	1200	1200	0
6/13/2024 13:03	46502	LOHA_T1	0	0	0	0	0	0	-1.1	-1.09	2	2	0	2400	2400	0
6/13/2024 13:03	52004	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/13/2024 13:03	13902	SEID_T1	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
6/13/2024 13:03	13903	SEID_T1	1	3	2	0.7	0.67	-0.03	0	0	0	0	0	0	0	0
6/13/2024 13:04	50701	SMEC_T1	1	1	0	0.5	0.3	-0.2	-0.22	-0.21	1	1	0	900	900	0
6/13/2024 13:06	14402	SSLA_T1	1	0	-1	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
6/13/2024 13:06	14404	SSLA_T1	1	1	0	4.5	4.4	-0.1	0.18	0.18	0	0	0	0	0	0
6/13/2024 13:08	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 13:08	10102	ALLE_T2	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
6/13/2024 13:09	61102	BERK_T5	0	0	0	0	0	0	0.73	0.55	1	1	0	300	300	0
6/13/2024 13:09	54602	SUMM_T2	0	0	0	0	0	0	-1.98	-1.98	1	1	0	600	600	0
6/13/2024 13:09	14404	SSLA_T1	1	1	0	4.5	4.4	-0.1	0.18	0.18	0	0	0	0	0	0
6/13/2024 13:09	50701	SMEC_T1	1	1	0	0.5	0.3	-0.2	-0.21	-0.21	1	1	0	900	900	0
6/13/2024 13:09	14402	SSLA_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
6/13/2024 13:09	54601	SUMM_T2	0	0	0	0	0	0	-1.28	-1.27	2	2	0	2100	2100	0
6/13/2024 13:09	55101	WERT_T1	0	0	0	0	0	0	-1.38	-1.25	3	3	0	2400	2400	0
6/13/2024 13:09	55103	WERT_T1	1	1	0	5.1	8.3	3.2	0	0	0	0	0	0	0	0
6/13/2024 13:10	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 13:10	67605	WARW_T1	1	0	-1	1.3	0	-1.3	-0.94	-0.91	0	0	0	0	0	0
6/13/2024 13:10	21206	ECAR_T2	1	2	1	7.4	3.5	-3.9	0.49	0.51	0	0	0	0	0	0
6/13/2024 13:12	24101	EHAZ_T1	32	35	3	2	0.94	-1.06	0	0	0	0	0	0	0	0
6/13/2024 13:12	24105	EHAZ_T1	4	4	0	5.88	5.88	0	0	0	0	0	0	0	0	0
6/13/2024 13:12	24104	EHAZ_T1	0	0	0	0	0	0	-0.69	-0.7	1	1	0	1200	1200	0
6/13/2024 13:13	60301	TWVA_T2	0	0	0	0	0	0	-2.44	-2.45	3	3	0	2700	2700	0
6/13/2024 13:14	47001	HUGH_T2	2	2	0	0.3	0.3	0	-0.33	-0.31	0	0	0	0	0	0
6/13/2024 13:14	11102	EGYP_T1	2	2	0	0.65	1.2	0.55	0	0	0	0	0	0	0	0
6/13/2024 13:14	11104	EGYP_T1	5	7	2	1.4	1.48	0.08	0	0	0	0	0	0	0	0
6/13/2024 13:14	11103	EGYP_T1	0	0	0	0	0	0	0.74	0.77	0	0	0	0	0	0
6/13/2024 13:15	64201	KINZ_T1	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/13/2024 13:15	64204	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/13/2024 13:15	64203	KINZ_T1	2	2	0	2.05	2.15	0.1	0.52	0.53	3	3	0	2100	2100	0
6/13/2024 13:15	47001	HUGH_T2	2	2	0	0.3	0.35	0.05	-0.33	-0.31	0	0	0	0	0	0
6/13/2024 13:16	64204	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/13/2024 13:16	64201	KINZ_T1	2	1	-1	0.15	0	-0.15	-0.08	-0.06	4	4	0	2100	2100	0
6/13/2024 13:16	64203	KINZ_T1	2	2	0	2.05	2.15	0.1	0	0	0	0	0	0	0	0
6/13/2024 13:17	22901	HARW_T1	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
6/13/2024 13:17	13302	ORVI_T2	3	12	9	0.9	0.43	-0.47	0.62	0.62	0	0	0	0	0	0
6/13/2024 13:17	22904	HARW_T1	0	0	0	0	0	0	-0.56	-0.53	0	0	0	0	0	0
6/13/2024 13:18	52002	LING_T2	5	8	3	0.2	0.2	0	0	0	0	0	0	0	0	0
6/13/2024 13:18	52004	LING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/13/2024 13:24	67303	WYOM_T2	0	0	0	0	0	0	-0.87	-0.82	0	0	0	0	0	0
6/13/2024 13:26	56603	HAMP_T1	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
6/13/2024 13:27	63804	HEMP_T1	1	1	0	7.2	7.1	-0.1	-0.03	0.07	0	0	0	0	0	0
6/13/2024 13:27	63803	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/13/2024 13:28	40101	HUNT_T2	18	13	-5	0.35	0.5	0.15	0.08	0.1	0	0	0	0	0	0
6/13/2024 13:29	52004	LING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/13/2024 13:29	63401	HONY_T1	0	0	0	0	0	0	1.43	1.47	2	2	0	1200	1200	0
6/13/2024 13:29	52002	LING_T2	5	8	3	0.2	0.2	0	0.72	0.73	0	0	0	0	0	0
6/13/2024 13:30	52002	LING_T2	8	9	1	0.34	0.2	-0.14	0	0	0	0	0	0	0	0
6/13/2024 13:30	52004	LING_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
6/13/2024 13:30	64101	REFR_T1	0	4	4	0	0	0	0.38	0.38	0	0	0	0	0	0
6/13/2024 13:31	12601	MACA_T1	1	2	1	1.4	0.95	-0.45	0	0	0	0	0	0	0	0
6/13/2024 13:31	12606	MACA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 13:31	40101	HUNT_T2	10	8	-2	0.39	0.4	0.01	0.08	0.1	0	0	0	0	0	0
6/13/2024 13:31	12604	MACA_T1	0	0	0	0	0	0	0.77	0.79	0	0	0	0	0	0
6/13/2024 13:31	63401	HONY_T1	0	0	0	0	0	0	0.71	0.74	1	1	0	600	600	0
6/13/2024 13:32	12601	MACA_T1	1	2	1	1.4	0.95	-0.45	0	0	0	0	0	0	0	0
6/13/2024 13:32	64101	REFR_T1	0	4	4	0	0	0	0.38	0.38	0	0	0	0	0	0
6/13/2024 13:32	12606	MACA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 13:32	12604	MACA_T1	0	0	0	0	0	0	0.77	0.79	0	0	0	0	0	0
6/13/2024 13:33	65603	QVIL_T2	0	0	0	0	0	0	-0.52	-0.56	0	0	0	0	0	0
6/13/2024 13:33	12604	MACA_T1	0	0	0	0	0	0	0.77	0.79	0	0	0	0	0	0
6/13/2024 13:33	65401	MARI_T1	8	8	0	0.51	0.31	-0.2	0.19	0.14	0	0	0	0	0	0
6/13/2024 13:33	12606	MACA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 13:33	65602	QVIL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/13/2024 13:33	12601	MACA_T1	1	2	1	1.4	0.95	-0.45	0	0	0	0	0	0	0	0
6/13/2024 13:36	67904	WNHO_T1	0	0	0	0	0	0	-1.8	-1.79	2	2	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/13/2024 13:37	57104	SPHI_T2	1	2	1	0.6	0.5	-0.1	-1.04	-1.03	1	1	0	900	900	0
6/13/2024 13:37	57106	SPHI_T2	3	3	0	0.67	0.83	0.16	0	0	0	0	0	0	0	0
6/13/2024 13:38	43801	SWIL_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
6/13/2024 13:38	57104	SPHI_T2	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
6/13/2024 13:38	43802	SWIL_T1	0	0	0	0	0	0	0.12	0.14	1	1	0	600	600	0
6/13/2024 13:38	57106	SPHI_T2	3	3	0	0.67	0.83	0.16	0	0	0	0	0	0	0	0
6/13/2024 13:38	57101	SPHI_T2	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
6/13/2024 13:39	67804	WLAN_T1	1	8	7	0.3	0.7	0.4	0	0	0	0	0	0	0	0
6/13/2024 13:39	67801	WLAN_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
6/13/2024 13:40	58006	WCAR_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
6/13/2024 13:42	23203	HIRU_T2	0	1	1	0	0.2	0.2	0.08	0.08	0	0	0	0	0	0
6/13/2024 13:42	41801	GOCI_T2	1	3	2	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
6/13/2024 13:42	56603	HAMP_T1	1	1	0	1.2	0.3	-0.9	0	0	0	0	0	0	0	0
6/13/2024 13:42	23201	HIRU_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/13/2024 13:42	23202	HIRU_T2	2	3	1	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
6/13/2024 13:45	41801	GOCI_T2	3	2	-1	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
6/13/2024 13:46	41801	GOCI_T2	3	2	-1	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
6/13/2024 13:47	59302	MCAL_T1	1	2	1	0.4	0.4	0	-0.55	-0.64	1	1	0	600	600	0
6/13/2024 13:47	59301	MCAL_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/13/2024 13:47	46101	MACI_T2	0	0	0	0	0	0	-0.76	0.17	2	1	-1	2400	1200	-1200
6/13/2024 13:48	24101	EHAZ_T1	34	22	-12	1.55	0.5	-1.05	0	0	0	0	0	0	0	0
6/13/2024 13:48	24102	EHAZ_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
6/13/2024 13:48	24105	EHAZ_T1	4	4	0	6.03	5.78	-0.25	0	0	0	0	0	0	0	0
6/13/2024 13:50	57106	SPHI_T2	3	3	0	0.63	0.83	0.2	0	0	0	0	0	0	0	0
6/13/2024 13:50	57103	SPHI_T2	0	0	0	0	0	0	-2.36	-2.31	1	1	0	600	600	0
6/13/2024 13:50	57104	SPHI_T2	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
6/13/2024 13:52	67804	WLAN_T1	5	8	3	0.74	0.44	-0.3	-0.43	-0.4	0	0	0	0	0	0
6/13/2024 13:53	10705	CATA_T2	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
6/13/2024 13:53	10702	CATA_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
6/13/2024 13:54	10704	CATA_T2	0	0	0	0	0	0	0.1	0.1	2	2	0	2400	2400	0
6/13/2024 13:54	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 13:54	10102	ALLE_T2	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
6/13/2024 13:54	10705	CATA_T2	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
6/13/2024 13:56	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/13/2024 13:56	46203	DANV_T2	3	0	-3	0.3	0	-0.3	-1.71	-1.56	0	0	0	0	0	0
6/13/2024 13:56	61801	EELI_T2	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/13/2024 13:56	61802	EELI_T2	8	8	0	0.51	0.41	-0.1	-0.55	-0.52	0	0	0	0	0	0
6/13/2024 13:56	46206	DANV_T2	7	15	8	0.59	0.59	0	0	0	0	0	0	0	0	0
6/13/2024 13:57	24701	FLND_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
6/13/2024 13:57	24702	FLND_T2	1	2	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
6/13/2024 13:58	47001	HUGH_T2	2	2	0	0.35	0.3	-0.05	-0.23	-0.24	0	0	0	0	0	0
6/13/2024 13:59	45501	DERR_T2	2	2	0	0.8	1.15	0.35	1.28	1.17	2	2	0	1800	1800	0
6/13/2024 13:59	45502	DERR_T2	5	19	14	0.42	0.19	-0.23	0	0	0	0	0	0	0	0
6/13/2024 13:59	24702	FLND_T2	1	2	1	0.2	0.7	0.5	1.02	0.76	1	1	0	1200	1200	0
6/13/2024 13:59	40101	HUNT_T2	8	1	-7	0.41	0.4	-0.01	-0.16	-0.17	0	0	0	0	0	0
6/13/2024 14:01	64203	KINZ_T1	2	2	0	2.05	2.4	0.35	0.68	0.71	3	3	0	2100	2100	0
6/13/2024 14:01	52002	LING_T2	9	8	-1	0.22	0.16	-0.06	0.72	0.75	0	0	0	0	0	0
6/13/2024 14:01	64204	KINZ_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/13/2024 14:02	52002	LING_T2	9	8	-1	0.22	0.16	-0.06	0.72	0.75	0	0	0	0	0	0
6/13/2024 14:03	64203	KINZ_T1	2	2	0	2.05	2.4	0.35	0.68	0.71	3	3	0	2100	2100	0
6/13/2024 14:03	11805	FRAN_T1	0	0	0	0	0	0	-1.66	-1.59	1	1	0	1200	1200	0
6/13/2024 14:03	64204	KINZ_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/13/2024 14:03	11804	FRAN_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/13/2024 14:04	41902	REED_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/13/2024 14:04	41903	REED_T1	0	0	0	0	0	0	1.04	1.18	2	2	0	2400	2400	0
6/13/2024 14:07	58003	WCAR_T1	4	1	-3	0.65	0.8	0.15	0.61	0.62	1	1	0	600	600	0
6/13/2024 14:07	58001	WCAR_T1	4	1	-3	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
6/13/2024 14:08	10103	ALLE_T3	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
6/13/2024 14:08	10105	ALLE_T3	8	12	4	0.65	0.59	-0.06	0	0	0	0	0	0	0	0
6/13/2024 14:08	10205	ALLE_T3	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 14:08	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 14:09	10602	BLGL_T2	19	34	15	0.92	0.94	0.02	1.8	1.67	0	0	0	0	0	0
6/13/2024 14:09	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 14:09	10102	ALLE_T2	1	1	0	7.6	7.6	0	0	0	0	0	0	0	0	0
6/13/2024 14:13	61801	EELI_T2	0	0	0	0	0	0	-0.33	-0.3	1	1	0	600	600	0
6/13/2024 14:17	40603	PIGR_T1	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
6/13/2024 14:17	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 14:17	40602	PIGR_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
6/13/2024 14:17	54201	PENN_T1	25	23	-2	0.35	0.35	0	-1.56	-1.51	0	0	0	0	0	0
6/13/2024 14:17	54203	PENN_T1	5	5	0	0.82	0.66	-0.16	0	0	0	0	0	0	0	0
6/13/2024 14:19	64203	KINZ_T1	2	2	0	2.5	2.2	-0.3	0.71	0.61	3	3	0	2100	2100	0
6/13/2024 14:19	54201	PENN_T1	25	23	-2	0.35	0.35	0	-1.56	-1.51	0	0	0	0	0	0
6/13/2024 14:19	64204	KINZ_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/13/2024 14:19	54203	PENN_T1	5	5	0	0.82	0.66	-0.16	0	0	0	0	0	0	0	0
6/13/2024 14:21	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 14:21	59202	THOM_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/13/2024 14:21	40603	PIGR_T1	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
6/13/2024 14:21	40602	PIGR_T1	1	1	0	1.2	0.9	-0.3	0	0	1	1	0	600	600	0
6/13/2024 14:22	27605	PIRI_T2	0	2	2	0	0	0	1.24	1.19	0	0	0	0	0	0
6/13/2024 14:22	40602	PIGR_T1	1	1	0	1.2	0.9	-0.3	0	0	1	1	0	600	600	0
6/13/2024 14:22	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 14:22	27603	PIRI_T2	2	2	0	0.65	0	-0.65	0	0	0	0	0	0	0	0
6/13/2024 14:22	40603	PIGR_T1	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
6/13/2024 14:23	56601	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 14:23	56603	HAMP_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/13/2024 14:24	49803	UNIV_T1	1	1	0	0.6	0.8	0.2	-0.44	-0.44	0	0	0	0	0	0
6/13/2024 14:26	24702	FLND_T2	2	1	-1	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
6/13/2024 14:26	24701	FLND_T2	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
6/13/2024 14:27	20601	GRWO_T2	7	8	1	0.23	0.4	0.17	0.5	0.47	0	0	0	0	0	0
6/13/2024 14:27	58002	WCAR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 14:27	58006	WCAR_T2	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
6/13/2024 14:28	20601	GRWO_T2	7	8	1	0.23	0.4	0.17	0.5	0.47	0	0	0	0	0	0
6/13/2024 14:29	64203	KINZ_T1	2	2	0	2.5	2.2	-0.3	0.61	0.65	3	3	0	2100	2100	0
6/13/2024 14:29	64204	KINZ_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/13/2024 14:29	40101	HUNT_T2	1	7	6	0.5	0.45	-0.05	-0.13	-0.1	0	0	0	0	0	0
6/13/2024 14:30	12803	MICK_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/13/2024 14:30	12304	LANA_T2	3	14	11	0.47	0.34	-0.13	0	0	0	0	0	0	0	0
6/13/2024 14:30	12305	LANA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/13/2024 14:30	12802	MICK_T1	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
6/13/2024 14:30	12301	LANA_T2	0	1	1	0	0	0	-0.71	-0.69	1	1	0	1200	1200	0
6/13/2024 14:34	64101	RERR_T1	0	0	0	0	0	0	0.39	-0.13	0	0	0	0	0	0
6/13/2024 14:35	43301	WATS_T2	1	1	0	0.5	0.4	-0.1	-0.24	-0.22	1	1	0	900	900	0
6/13/2024 14:35	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 14:37	64101	RERR_T1	0	0	0	0	0	0	-0.27	1.12	0	0	0	0	0	0
6/13/2024 14:38	29402	BELT_T1	13	6	-7	0.98	1.93	0.95	0	0	0	0	0	0	0	0
6/13/2024 14:38	55105	WERT_T1	0	0	0	0	0	0	0.53	0.56	1	1	0	900	900	0
6/13/2024 14:38	14801	TREI_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
6/13/2024 14:38	14802	TREI_T2	0	0	0	0	0	0	1.12	1.13	0	0	0	0	0	0
6/13/2024 14:38	55103	WERT_T1	1	1	0	5.3	6.4	1.1	0	0	0	0	0	0	0	0
6/13/2024 14:38	29401	BELT_T1	28	40	12	0.17	0.21	0.04	0	0	0	0	0	0	0	0
6/13/2024 14:40	29401	BELT_T1	28	40	12	0.17	0.21	0.04	0	0	1	1	0	900	900	0
6/13/2024 14:40	61102	BERK_T5	0	0	0	0	0	0	1.34	1.26	2	2	0	600	600	0
6/13/2024 14:40	29402	BELT_T1	13	6	-7	0.98	1.93	0.95	0	0	0	0	0	0	0	0
6/13/2024 14:41	61101	BERK_T5	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
6/13/2024 14:41	29401	BELT_T1	28	40	12	0.17	0.21	0.04	0	0	1	1	0	900	900	0
6/13/2024 14:41	29402	BELT_T1	13	6	-7	0.98	1.93	0.95	0	0	0	0	0	0	0	0
6/13/2024 14:44	46203	DANV_T2	0	0	0	0	0	0	-1.59	-1.54	0	0	0	0	0	0
6/13/2024 14:44	46206	DANV_T2	14	22	8	0.55	0.97	0.42	0	0	0	0	0	0	0	0
6/13/2024 14:45	64203	KINZ_T1	2	2	0	2.2	2.3	0.1	0.65	0.53	3	3	0	2100	2100	0
6/13/2024 14:45	64204	KINZ_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/13/2024 14:45	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 14:47	26401	INOR_T1	1	1	0	8	8.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 14:47	26402	INOR_T1	1	1	0	0.5	0.8	0.3	-1.48	-1.49	1	1	0	600	600	0
6/13/2024 14:49	42201	SHEN_T2	2	2	0	0.75	0.9	0.15	0.16	0.16	1	1	0	600	600	0
6/13/2024 14:50	42201	SHEN_T2	2	2	0	0.75	0.9	0.15	0.16	0.16	1	1	0	600	600	0
6/13/2024 14:52	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 14:52	46203	DANV_T2	0	0	0	0	0	0	-1.54	-1.47	0	0	0	0	0	0
6/13/2024 14:52	16302	ALPA_T2	0	1	1	0	0.4	0.4	0.26	0.31	0	0	0	0	0	0
6/13/2024 14:52	46206	DANV_T2	22	3	-19	0.44	1.8	1.36	0	0	0	0	0	0	0	0
6/13/2024 14:53	51101	CARL_T1	1	1	0	8	8	0	0	0	0	0	0	0	0	0
6/13/2024 14:53	16302	ALPA_T2	0	1	1	0	0.4	0.4	0.26	0.31	0	0	0	0	0	0
6/13/2024 14:53	42201	SHEN_T2	2	2	0	0.75	0.9	0.15	0.16	0.16	1	1	0	600	600	0
6/13/2024 14:53	51108	CARL_T1	0	0	0	0	0	0	0.35	0.37	1	1	0	600	600	0
6/13/2024 14:54	16302	ALPA_T2	0	1	1	0	0.4	0.4	0.26	0.31	0	0	0	0	0	0
6/13/2024 14:55	24902	WHHA_T1	1	1	0	1.2	0.3	-0.9	0.73	0.74	0	0	0	0	0	0
6/13/2024 14:55	10803	CHHI_T1	5	3	-2	0.44	0.8	0.36	-1.3	-1.28	3	3	0	2100	2100	0
6/13/2024 14:56	16302	ALPA_T2	0	1	1	0	0.4	0.4	0.26	0.31	0	0	0	0	0	0
6/13/2024 14:57	61506	EPET_T2	0	0	0	0	0	0	-1.08	-1.29	2	2	0	1800	1800	0
6/13/2024 14:57	61501	EPET_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
6/13/2024 14:59	21601	EYNO_T1	0	0	0	0	0	0	0.55	0.43	0	0	0	0	0	0
6/13/2024 15:00	41801	GOCI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/13/2024 15:03	65004	NEFF_T2	0	0	0	0	0	0	-0.53	-0.52	1	1	0	600	600	0
6/13/2024 15:05	65401	MARI_T1	8	9	1	0.49	0.68	0.19	0	0	0	0	0	0	0	0
6/13/2024 15:05	65402	MARI_T1	1	0	-1	0.2	0	-0.2	83.96	83.96	0	0	0	0	0	0
6/13/2024 15:06	58702	ROSE_T2	0	0	0	0	0	0	-1.72	-1.81	0	0	0	0	0	0
6/13/2024 15:06	58704	ROSE_T2	1	1	0	5.9	0.1	-5.8	0	0	0	0	0	0	0	0
6/13/2024 15:06	58705	ROSE_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
6/13/2024 15:06	58706	ROSE_T2	1	1	0	2	2	0	0	0	0	0	0	0	0	0
6/13/2024 15:06	64101	RERR_T1	0	0	0	0	0	0	0.56	0.49	0	0	0	0	0	0
6/13/2024 15:07	42701	AUGU_T1	56	79	23	0.68	0.96	0.28	0	0	0	0	0	0	0	0
6/13/2024 15:09	58006	WCAR_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
6/13/2024 15:09	42701	AUGU_T1	56	79	23	0.68	0.96	0.28	0	0	0	0	0	0	0	0
6/13/2024 15:11	56603	HAMP_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
6/13/2024 15:11	10805	CHHI_T2	20	5	-15	0.87	2.88	2.01	-0.79	-0.68	1	1	0	600	600	0
6/13/2024 15:12	61702	ELIZ_T2	0	0	0	0	0	0	-2	-1.97	2	2	0	1500	1500	0
6/13/2024 15:21	65901	SAKR_T2	1	1	0	6.3	5.8	-0.5	0	0	0	0	0	0	0	0
6/13/2024 15:21	65902	SAKR_T2	0	0	0	0	0	0	-0.76	-0.72	2	2	0	1200	1200	0
6/13/2024 15:24	67605	WARW_T1	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
6/13/2024 15:25	29401	BELT_T1	20	5	-15	0.22	0.22	0	0	0	1	1	0	900	900	0
6/13/2024 15:25	29402	BELT_T1	2	4	2	4.75	2.48	-2.27	0	0	0	0	0	0	0	0
6/13/2024 15:25	61701	ELIZ_T1	1	1	0	1.7	1.6	-0.1	1.21	1.07	0	0	0	0	0	0
6/13/2024 15:26	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 15:26	21206	ECAR_T2	5	6	1	1.6	3.95	2.35	0.37	0.27	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/13/2024 15:28	24501	GOUL_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
6/13/2024 15:28	29402	BELT_T1	2	4	2	4.75	2.48	-2.27	0	0	0	0	0	0	0	0
6/13/2024 15:28	61701	ELIZ_T1	1	1	0	1.7	1.6	-0.1	1.21	1.07	0	0	0	0	0	0
6/13/2024 15:28	29401	BELT_T1	20	5	-15	0.22	0.22	0	0	0	1	1	0	900	900	0
6/13/2024 15:28	46206	DANV_T2	1	30	29	1.8	0.54	-1.26	3.1	3.1	1	1	0	1200	1200	0
6/13/2024 15:29	53501	EVIL_T2	0	0	0	0	0	0	-3.65	-3.78	12	12	0	8100	8100	0
6/13/2024 15:29	46206	DANV_T2	1	30	29	1.8	0.54	-1.26	3.1	3.1	1	1	0	1200	1200	0
6/13/2024 15:29	53502	EVIL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/13/2024 15:29	61701	ELIZ_T1	1	1	0	1.7	1.6	-0.1	1.21	1.07	0	0	0	0	0	0
6/13/2024 15:30	46206	DANV_T2	20	33	13	0.54	0.63	0.09	3.1	3.1	1	1	0	1200	1200	0
6/13/2024 15:35	65604	QVIL_T2	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
6/13/2024 15:35	65602	QVIL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/13/2024 15:36	67602	WARW_T2	0	0	0	0	0	0	0.22	0.2	2	2	0	1500	1500	0
6/13/2024 15:39	24902	WHHA_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
6/13/2024 15:39	24901	WHHA_T1	0	0	0	0	0	0	0.74	0.74	0	0	0	0	0	0
6/13/2024 15:40	67602	WARW_T2	0	0	0	0	0	0	0.44	0.41	4	4	0	3000	3000	0
6/13/2024 15:42	46206	DANV_T2	20	33	13	0.54	0.63	0.09	3.1	3.1	1	1	0	1200	1200	0
6/13/2024 15:43	61102	BERK_T5	0	0	0	0	0	0	0.63	0.8	1	1	0	300	300	0
6/13/2024 15:44	62102	ELAN_T1	0	0	0	0	0	0	1.8	0.87	0	0	0	0	0	0
6/13/2024 15:45	46206	DANV_T2	30	26	-4	0.57	0.63	0.06	3.1	3.1	1	1	0	1200	1200	0
6/13/2024 15:47	58402	MORO_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/13/2024 15:47	58401	MORO_T1	0	0	0	0	0	0	-1.79	-1.8	3	3	0	2100	2100	0
6/13/2024 15:53	42701	AUGU_T1	79	80	1	1.48	1.19	-0.29	0	0	0	0	0	0	0	0
6/13/2024 15:53	56501	ROCK_T2	3	4	1	3.63	2.58	-1.05	-1.68	-1.66	0	0	0	0	0	0
6/13/2024 15:53	67602	WARW_T2	0	0	0	0	0	0	0.2	0.19	2	2	0	1500	1500	0
6/13/2024 15:53	55103	WERT_T1	1	2	1	5.7	4.5	-1.2	0	0	0	0	0	0	0	0
6/13/2024 15:53	55101	WERT_T1	0	0	0	0	0	0	-1.85	-2.07	4	4	0	3300	3300	0
6/13/2024 15:53	56504	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/13/2024 15:54	55101	WERT_T1	0	0	0	0	0	0	-1.85	-2.07	4	4	0	3300	3300	0
6/13/2024 15:54	67602	WARW_T2	0	0	0	0	0	0	0.2	0.19	2	2	0	1500	1500	0
6/13/2024 15:54	55103	WERT_T1	1	2	1	5.7	4.5	-1.2	0	0	0	0	0	0	0	0
6/13/2024 15:54	42701	AUGU_T1	79	80	1	1.48	1.19	-0.29	0	0	0	0	0	0	0	0
6/13/2024 15:55	55103	WERT_T1	1	2	1	5.7	4.5	-1.2	0	0	0	0	0	0	0	0
6/13/2024 15:55	56504	ROCK_T2	1	0	-1	0.1	0	-0.1	-0.67	-0.66	0	0	0	0	0	0
6/13/2024 15:55	45502	DERR_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/13/2024 15:55	55101	WERT_T1	0	0	0	0	0	0	-1.85	-2.07	4	4	0	3300	3300	0
6/13/2024 15:55	45501	DERR_T2	2	2	0	1.1	0.6	-0.5	1.36	1.17	2	2	0	1800	1800	0
6/13/2024 15:55	56501	ROCK_T2	3	4	1	3.63	2.58	-1.05	0	0	0	0	0	0	0	0
6/13/2024 15:56	58006	WCAR_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
6/13/2024 15:56	55101	WERT_T1	0	0	0	0	0	0	-1.85	-2.07	4	4	0	3300	3300	0
6/13/2024 15:56	42701	AUGU_T1	79	80	1	1.48	1.19	-0.29	0	0	0	0	0	0	0	0
6/13/2024 15:56	45501	DERR_T2	2	2	0	1.1	0.6	-0.5	1.36	1.17	2	2	0	1800	1800	0
6/13/2024 15:56	55103	WERT_T1	1	2	1	5.7	4.5	-1.2	0	0	0	0	0	0	0	0
6/13/2024 15:56	58002	WCAR_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/13/2024 15:56	45502	DERR_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/13/2024 15:57	55101	WERT_T1	0	0	0	0	0	0	-1.85	-2.07	4	4	0	3300	3300	0
6/13/2024 15:57	55103	WERT_T1	1	2	1	5.7	4.5	-1.2	0	0	0	0	0	0	0	0
6/13/2024 15:58	41801	GOCI_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/13/2024 16:00	52004	LING_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
6/13/2024 16:01	60502	NMAN_T2	0	0	0	0	0	0	0.46	0.41	0	0	0	0	0	0
6/13/2024 16:01	60501	NMAN_T2	3	3	0	3.47	3.67	0.2	0	0	0	0	0	0	0	0
6/13/2024 16:02	60502	NMAN_T2	0	0	0	0	0	0	0.46	0.41	0	0	0	0	0	0
6/13/2024 16:02	60501	NMAN_T2	3	3	0	3.47	3.67	0.2	0	0	0	0	0	0	0	0
6/13/2024 16:05	56501	ROCK_T2	4	5	1	2.55	2.12	-0.43	-1.68	-1.66	0	0	0	0	0	0
6/13/2024 16:06	67602	WARW_T2	0	0	0	0	0	0	0.19	0.2	2	2	0	1500	1500	0
6/13/2024 16:07	41903	REED_T1	0	0	0	0	0	0	0.57	0.55	1	1	0	1200	1200	0
6/13/2024 16:07	41902	REED_T1	1	5	4	0.4	0.17	-0.23	0	0	0	0	0	0	0	0
6/13/2024 16:08	46001	BERW_T1	1	0	-1	2.6	0	-2.6	0.55	0.34	0	0	0	0	0	0
6/13/2024 16:08	46005	BERW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/13/2024 16:09	56501	ROCK_T2	4	5	1	2.55	2.12	-0.43	-1.66	-1.65	0	0	0	0	0	0
6/13/2024 16:09	46001	BERW_T1	1	0	-1	2.6	0	-2.6	0.28	0.17	0	0	0	0	0	0
6/13/2024 16:09	46005	BERW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/13/2024 16:10	67602	WARW_T2	0	0	0	0	0	0	0.19	0.2	2	2	0	1500	1500	0
6/13/2024 16:10	46001	BERW_T1	1	0	-1	2.6	0	-2.6	0.28	0.17	0	0	0	0	0	0
6/13/2024 16:10	46005	BERW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/13/2024 16:12	58002	WCAR_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/13/2024 16:12	46001	BERW_T1	1	0	-1	2.6	0	-2.6	0.28	0.17	0	0	0	0	0	0
6/13/2024 16:12	58006	WCAR_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
6/13/2024 16:12	46005	BERW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/13/2024 16:13	61701	ELIZ_T1	1	1	0	1.4	1.5	0.1	1.24	1.31	0	0	0	0	0	0
6/13/2024 16:13	56501	ROCK_T2	4	5	1	2.55	2.12	-0.43	-1.66	-1.65	0	0	0	0	0	0
6/13/2024 16:13	46005	BERW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/13/2024 16:13	46001	BERW_T1	1	0	-1	2.6	0	-2.6	0.28	0.17	0	0	0	0	0	0
6/13/2024 16:15	61701	ELIZ_T1	1	1	0	1.5	1.8	0.3	1.24	1.31	0	0	0	0	0	0
6/13/2024 16:15	61703	ELIZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 16:16	13503	MCMI_T2	3	40	37	0.33	0.26	-0.07	0.22	-0.7	0	0	0	0	0	0
6/13/2024 16:17	67602	WARW_T2	0	0	0	0	0	0	0.19	0.2	2	2	0	1500	1500	0
6/13/2024 16:17	64201	KINZ_T1	1	3	2	1.6	0	-1.6	0	0	0	0	0	0	0	0
6/13/2024 16:17	64202	KINZ_T1	2	2	0	0.95	0	-0.95	1.75	1.74	0	0	0	0	0	0
6/13/2024 16:17	64203	KINZ_T1	2	2	0	1.7	1	-0.7	0	0	0	0	0	0	0	0
6/13/2024 16:17	64204	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/13/2024 16:18	13503	MCMI_T2	3	40	37	0.33	0.26	-0.07	0.22	-0.7	0	0	0	0	0	0
6/13/2024 16:19	13503	MCMI_T2	3	40	37	0.33	0.26	-0.07	0.22	-0.7	0	0	0	0	0	0
6/13/2024 16:27	16101	BING_T2	1	4	3	9.4	3.93	-5.47	0	0	0	0	0	0	0	0
6/13/2024 16:27	16102	BING_T2	0	0	0	0	0	0	-0.22	-0.2	1	1	0	1200	1200	0
6/13/2024 16:27	67601	WARW_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
6/13/2024 16:28	56801	BENV_T1	1	4	3	0.3	0.53	0.23	-0.09	-0.07	1	1	0	600	600	0
6/13/2024 16:28	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 16:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 16:30	63203	MGTN_T1	0	0	0	0	0	0	-0.46	-0.46	2	2	0	1200	1200	0
6/13/2024 16:33	60501	NMAN_T2	3	0	0	3.67	3.73	0.06	0	0	0	0	0	0	0	0
6/13/2024 16:33	60502	NMAN_T2	0	0	0	0	0	0	0.52	0.63	0	0	0	0	0	0
6/13/2024 16:34	54203	PENN_T1	5	5	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/13/2024 16:34	44905	SCOT_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 16:34	54201	PENN_T1	7	12	5	0.23	0.24	0.01	-1.47	-1.49	0	0	0	0	0	0
6/13/2024 16:34	13503	MCMI_T2	40	10	-30	0.26	0.38	0.12	-0.7	-0.7	0	0	0	0	0	0
6/13/2024 16:35	54203	PENN_T1	5	5	0	0.5	0.3	-0.2	0.32	0.34	1	1	0	600	600	0
6/13/2024 16:35	54201	PENN_T1	7	12	5	0.23	0.24	0.01	0	0	0	0	0	0	0	0
6/13/2024 16:36	66503	SMAN_T2	0	0	0	0	0	0	1.06	1.06	0	0	0	0	0	0
6/13/2024 16:38	67503	WEWI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
6/13/2024 16:38	44902	SCOT_T2	0	38	38	0	0.12	0.12	-1.75	-1.75	0	0	0	0	0	0
6/13/2024 16:39	46001	BERW_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
6/13/2024 16:39	46005	BERW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/13/2024 16:40	41602	CLEV_T1	1	3	2	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/13/2024 16:40	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/13/2024 16:41	67602	WARW_T2	0	0	0	0	0	0	0.27	0.23	2	2	0	1500	1500	0
6/13/2024 16:41	56801	BENV_T1	4	4	0	0.18	0.6	0.42	-0.07	-0.08	1	1	0	600	600	0
6/13/2024 16:41	56803	BENV_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
6/13/2024 16:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/13/2024 16:41	41602	CLEV_T1	1	3	2	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/13/2024 16:43	41602	CLEV_T1	1	3	2	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/13/2024 16:43	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/13/2024 16:43	20603	GRWO_T2	1	0	-1	0.2	0.1	-0.1	-0.41	-0.41	1	1	0	900	900	0
6/13/2024 16:44	46203	DANV_T2	0	0	0	0	0	0	-2.85	-2.74	0	0	0	0	0	0
6/13/2024 16:44	46206	DANV_T2	22	29	7	0.79	0.61	-0.18	0	0	0	0	0	0	0	0
6/13/2024 16:48	67103	SPRI_T1	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
6/13/2024 16:49	44902	SCOT_T2	37	87	50	0.12	0.15	0.03	-1.75	-1.75	0	0	0	0	0	0
6/13/2024 16:50	44905	SCOT_T1	0	7	7	0	0.73	0.73	0	0	0	0	0	0	0	0
6/13/2024 16:53	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 16:59	20601	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 16:59	52402	GRPA_T2	4	5	1	0.23	0.27	0.04	0	0	0	0	0	0	0	0
6/13/2024 16:59	20603	GRWO_T2	0	1	1	0	0.1	0.1	-0.41	-0.42	1	1	0	900	900	0
6/13/2024 16:59	52403	GRPA_T2	5	14	9	1.28	1.43	0.15	0.02	0.01	0	0	0	0	0	0
6/13/2024 17:01	52404	GRPA_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 17:01	52403	GRPA_T2	7	27	20	1.49	0.88	-0.61	0.02	0.01	0	0	0	0	0	0
6/13/2024 17:01	52402	GRPA_T2	3	4	1	0.27	0.28	0.01	0	0	0	0	0	0	0	0
6/13/2024 17:04	67103	SPRI_T1	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
6/13/2024 17:10	41602	CLEV_T1	3	6	3	0.43	0.27	-0.16	0	0	1	1	0	600	600	0
6/13/2024 17:11	11102	EGYP_T1	4	9	5	1.23	1.43	0.2	0	0	0	0	0	0	0	0
6/13/2024 17:11	11104	EGYP_T1	17	8	-9	1.14	0.72	-0.42	0.11	0.1	1	1	0	900	900	0
6/13/2024 17:11	67503	WEWI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
6/13/2024 17:11	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/13/2024 17:11	67502	WEWI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 17:11	41602	CLEV_T1	3	6	3	0.43	0.27	-0.16	0	0	0	0	0	0	0	0
6/13/2024 17:13	10701	CATA_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 17:13	10704	CATA_T2	0	0	0	0	0	0	0.27	0.22	2	2	0	2400	2400	0
6/13/2024 17:14	52402	GRPA_T2	3	4	1	0.27	0.28	0.01	0	0	0	0	0	0	0	0
6/13/2024 17:14	52404	GRPA_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 17:14	52403	GRPA_T2	7	27	20	1.49	0.88	-0.61	0.01	0	0	0	0	0	0	0
6/13/2024 17:15	52403	GRPA_T2	12	44	32	0.93	0.77	-0.16	0.01	0	0	0	0	0	0	0
6/13/2024 17:15	52404	GRPA_T2	0	5	5	0	0.55	0.55	0	0	0	0	0	0	0	0
6/13/2024 17:15	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 17:15	52402	GRPA_T2	4	10	6	0.55	0.23	-0.32	0	0	0	0	0	0	0	0
6/13/2024 17:15	52004	LING_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
6/13/2024 17:16	11104	EGYP_T1	7	7	0	1.3	0.72	-0.58	0.11	0.1	1	1	0	900	900	0
6/13/2024 17:16	11102	EGYP_T1	5	13	8	1.2	1.43	0.23	0	0	0	0	0	0	0	0
6/13/2024 17:21	65602	QVIL_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
6/13/2024 17:21	65603	QVIL_T2	0	0	0	0	0	0	-0.96	-0.97	0	0	0	0	0	0
6/13/2024 17:21	65604	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 17:24	24901	WHHA_T1	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
6/13/2024 17:24	24902	WHHA_T1	1	2	1	1.9	0.4	-1.5	0	0	0	0	0	0	0	0
6/13/2024 17:25	45501	DERR_T2	1	1	0	0.5	0.6	0.1	2.13	2.09	4	4	0	3600	3600	0
6/13/2024 17:26	46206	DANV_T2	31	37	6	0.65	0.64	-0.01	0	0	0	0	0	0	0	0
6/13/2024 17:26	55102	WERT_T2	48	57	9	1.06	1.01	-0.05	-0.38	-0.36	2	2	0	1200	1200	0
6/13/2024 17:26	46204	DANV_T2	2	7	5	0.15	0.4	0.25	0	0	0	0	0	0	0	0
6/13/2024 17:26	46203	DANV_T2	1	0	-1	0.1	0	-0.1	-1.47	-1.46	0	0	0	0	0	0
6/13/2024 17:27	46206	DANV_T2	31	37	6	0.65	0.64	-0.01	0	0	0	0	0	0	0	0
6/13/2024 17:27	46203	DANV_T2	1	0	-1	0.1	0	-0.1	-1.47	-1.46	0	0	0	0	0	0
6/13/2024 17:27	46204	DANV_T2	2	7	5	0.15	0.4	0.25	0	0	0	0	0	0	0	0
6/13/2024 17:30	42903	MIDD_T2	2	3	1	1.05	0.75	-0.3	0	0	0	0	0	0	0	0
6/13/2024 17:30	23401	HONE_T2	9	8	-1	0.83	1.65	0.82	0.51	0.56	0	0	0	0	0	0
6/13/2024 17:30	42902	MIDD_T2	33	54	21	0.85	0.7	-0.15	-0.1	-0.32	0	0	0	0	0	0
6/13/2024 17:32	42903	MIDD_T2	2	3	1	1.05	0.75	-0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/13/2024 17:32	64203	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
6/13/2024 17:32	64202	KINZ_T1	1	1	0	2.1	0	-2.1	0	0	0	0	0	0	0	0
6/13/2024 17:32	64201	KINZ_T1	0	0	0	0	0	0	-0.57	-0.48	4	4	0	2100	2100	0
6/13/2024 17:32	64204	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/13/2024 17:32	42902	MIDD_T2	33	54	21	0.85	0.7	-0.15	-0.05	-0.16	0	0	0	0	0	0
6/13/2024 17:34	42902	MIDD_T2	33	54	21	0.85	0.7	-0.15	-0.05	-0.16	0	0	0	0	0	0
6/13/2024 17:34	42903	MIDD_T2	2	3	1	1.05	0.75	-0.3	0	0	0	0	0	0	0	0
6/13/2024 17:35	42902	MIDD_T2	33	54	21	0.85	0.7	-0.15	-0.05	-0.16	0	0	0	0	0	0
6/13/2024 17:35	42903	MIDD_T2	2	3	1	1.05	0.75	-0.3	0	0	0	0	0	0	0	0
6/13/2024 17:37	14403	SSLA_T1	0	2	2	0	0	0	0.97	0.96	1	1	0	600	600	0
6/13/2024 17:37	14404	SSLA_T1	1	1	0	2.3	3.4	1.1	0	0	0	0	0	0	0	0
6/13/2024 17:37	44905	SCOT_T1	6	6	0	0.8	0.73	-0.07	0	0	0	0	0	0	0	0
6/13/2024 17:40	14403	SSLA_T1	0	2	2	0	0	0	0.97	0.96	1	1	0	600	600	0
6/13/2024 17:40	14404	SSLA_T1	1	1	0	2.3	3.4	1.1	0	0	0	0	0	0	0	0
6/13/2024 17:43	67602	WARW_T2	0	0	0	0	0	0	0.26	0.25	2	2	0	1500	1500	0
6/13/2024 17:45	52403	GRPA_T2	44	64	20	0.99	1.23	0.24	0	-0.01	0	0	0	0	0	0
6/13/2024 17:45	52402	GRPA_T2	9	6	-3	0.58	0.23	-0.35	0	0	0	0	0	0	0	0
6/13/2024 17:45	52401	GRPA_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/13/2024 17:45	52404	GRPA_T2	2	1	-1	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/13/2024 17:48	21206	ECAR_T2	1	1	0	6.8	7.4	0.6	0.25	0.29	0	0	0	0	0	0
6/13/2024 17:48	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 17:50	14404	SSLA_T1	1	2	1	3	3.6	0.6	0	0	0	0	0	0	0	0
6/13/2024 17:50	14403	SSLA_T1	2	0	-2	1.15	0	-1.15	0.97	0.96	1	1	0	600	600	0
6/13/2024 17:52	14403	SSLA_T1	2	0	-2	1.15	0	-1.15	0.96	0.95	1	1	0	600	600	0
6/13/2024 17:52	14404	SSLA_T1	1	2	1	3	3.6	0.6	0	0	0	0	0	0	0	0
6/13/2024 17:58	21601	EYNO_T1	0	1	1	0	0	0	0.36	0.45	0	0	0	0	0	0
6/13/2024 18:11	29401	BELT_T1	1	6	5	0.1	0.13	0.03	0	0	1	1	0	900	900	0
6/13/2024 18:11	29402	BELT_T1	1	1	0	8.6	8.5	-0.1	0	0	0	0	0	0	0	0
6/13/2024 18:17	56602	HAMP_T2	124	69	-55	0.63	0.52	-0.11	0	0	0	0	0	0	0	0
6/13/2024 18:17	56604	HAMP_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 18:18	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 18:19	11802	FRAN_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/13/2024 18:19	11804	FRAN_T1	90	112	22	0.63	0.75	0.12	1.47	1.48	0	0	0	0	0	0
6/13/2024 18:22	43304	WATS_T2	5	24	19	0.62	0.41	-0.21	0.01	0.06	0	0	0	0	0	0
6/13/2024 18:24	40502	CRES_T2	3	7	4	0.3	0.23	-0.07	-0.34	-0.31	0	0	0	0	0	0
6/13/2024 18:24	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 18:25	43301	WATS_T2	0	0	0	0	0	0	-0.12	-0.12	1	1	0	900	900	0
6/13/2024 18:25	43304	WATS_T2	5	24	19	0.62	0.41	-0.21	0	0	0	0	0	0	0	0
6/13/2024 18:25	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 18:25	40502	CRES_T2	3	7	4	0.3	0.23	-0.07	-0.17	-0.16	0	0	0	0	0	0
6/13/2024 18:26	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 18:26	29401	BELT_T1	2	18	16	0.1	0.16	0.06	0	0	1	1	0	900	900	0
6/13/2024 18:26	29402	BELT_T1	1	1	0	8.5	8.5	0	0	0	0	0	0	0	0	0
6/13/2024 18:26	40502	CRES_T2	3	7	4	0.3	0.23	-0.07	-0.17	-0.16	0	0	0	0	0	0
6/13/2024 18:27	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 18:27	40502	CRES_T2	3	7	4	0.3	0.23	-0.07	-0.5	-0.47	0	0	0	0	0	0
6/13/2024 18:28	40502	CRES_T2	3	7	4	0.3	0.23	-0.07	-0.84	-0.78	0	0	0	0	0	0
6/13/2024 18:28	63306	GREE_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/13/2024 18:28	63304	GREE_T1	0	0	0	0	0	0	-1.85	-1.94	0	0	0	0	0	0
6/13/2024 18:28	63305	GREE_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 18:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 18:29	46602	LACR_T1	0	0	0	0	0	0	1.12	1.15	0	0	0	0	0	0
6/13/2024 18:29	40502	CRES_T2	3	7	4	0.3	0.23	-0.07	-0.5	-0.47	0	0	0	0	0	0
6/13/2024 18:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 18:31	63305	GREE_T1	2	4	2	0.1	0.18	0.08	-1.62	-1.55	1	1	0	900	900	0
6/13/2024 18:31	63306	GREE_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
6/13/2024 18:33	63201	MOTN_T2	3	3	0	0.87	0.9	0.03	1.07	1.07	1	1	0	600	600	0
6/13/2024 18:38	42701	AUGU_T1	95	100	5	2.37	2.36	-0.01	0	0	0	0	0	0	0	0
6/13/2024 18:39	58006	WCAR_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
6/13/2024 18:40	63305	GREE_T1	2	4	2	0.1	0.18	0.08	-1.55	-1.64	1	1	0	900	900	0
6/13/2024 18:40	63306	GREE_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
6/13/2024 18:41	54501	ENOL_T2	0	0	0	0	0	0	0.08	0.07	1	1	0	600	600	0
6/13/2024 18:53	59201	THOM_T1	7	1	-6	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
6/13/2024 18:53	59202	THOM_T1	5	0	-5	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/13/2024 18:54	59202	THOM_T1	5	0	-5	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/13/2024 18:54	59201	THOM_T1	7	1	-6	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
6/13/2024 18:55	58006	WCAR_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
6/13/2024 18:57	10705	CATA_T2	0	0	0	0	0	0	-1.34	-1.36	1	1	0	900	900	0
6/13/2024 18:57	44301	BEAV_T2	11	10	-1	1.1	0.47	-0.63	0.64	0.55	2	2	0	1200	1200	0
6/13/2024 18:58	16103	BING_T2	4	0	-4	1	0	-1	-1.15	-1.16	2	2	0	1500	1500	0
6/13/2024 18:58	16101	BING_T2	2	4	2	5.05	3.97	-1.08	0	0	0	0	0	0	0	0
6/13/2024 18:58	29402	BELT_T1	1	1	0	8.5	8.8	0.3	0	0	0	0	0	0	0	0
6/13/2024 18:58	29401	BELT_T1	17	37	20	0.16	0.25	0.09	0	0	1	1	0	900	900	0
6/13/2024 19:02	64903	MILL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/13/2024 19:02	64902	MILL_T2	0	0	0	0	0	0	-0.54	-0.58	1	1	0	900	900	0
6/13/2024 19:13	51101	CARL_T1	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
6/13/2024 19:13	51109	CARL_T1	0	0	0	0	0	0	-1.68	-0.39	1	0	-1	1200	0	-1200
6/13/2024 19:13	51108	CARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/13/2024 19:14	24702	FLND_T2	0	0	0	0	0	0	0.86	0.87	1	1	0	1200	1200	0
6/13/2024 19:14	62102	ELAN_T1	0	0	0	0	0	0	1	0.93	0	0	0	0	0	0
6/13/2024 19:16	54205	PENN_T1	0	25	25	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 19:16	54203	PENN_T1	6	14	8	0.98	0.51	-0.47	0.25	0.25	1	1	0	600	600	0
6/13/2024 19:16	54201	PENN_T1	51	61	10	0.4	0.48	0.08	0	0	0	0	0	0	0	0
6/13/2024 19:18	64201	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/13/2024 19:18	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 19:18	64204	KINZ_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
6/13/2024 19:18	64203	KINZ_T1	0	0	0	0	0	0	-0.52	-0.54	2	2	0	900	900	0
6/13/2024 19:22	50107	HARR_T3	1	1	0	7.2	6.8	-0.4	0.84	0.84	0	0	0	0	0	0
6/13/2024 19:22	50105	HARR_T3	6	6	0	6.12	6	-0.12	0	0	0	0	0	0	0	0
6/13/2024 19:22	50201	HARR_T3	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
6/13/2024 19:22	50103	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 19:23	58001	WCAR_T1	4	3	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
6/13/2024 19:23	58003	WCAR_T1	31	29	-2	0.26	0.2	-0.06	0.47	0.47	1	1	0	600	600	0
6/13/2024 19:25	14605	SWHI_T1	1	3	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/13/2024 19:25	58001	WCAR_T1	4	3	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
6/13/2024 19:25	58003	WCAR_T1	31	29	-2	0.26	0.2	-0.06	0.47	0.47	1	1	0	600	600	0
6/13/2024 19:25	14601	SWHI_T1	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
6/13/2024 19:29	23403	HONE_T1	0	0	0	0	0	0	-0.45	-0.37	0	0	0	0	0	0
6/13/2024 19:31	64904	MILL_T1	0	0	0	0	0	0	0.6	0.57	0	0	0	0	0	0
6/13/2024 19:35	44601	SALE_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
6/13/2024 19:38	44601	SALE_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
6/13/2024 19:38	57106	SPHI_T2	3	3	0	1	1.23	0.23	0	0	0	0	0	0	0	0
6/13/2024 19:38	57103	SPHI_T2	0	0	0	0	0	0	-2.73	-2.74	1	1	0	600	600	0
6/13/2024 19:38	57104	SPHI_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
6/13/2024 19:39	20403	ASHF_T2	0	0	0	0	0	0	0.89	0.86	0	0	0	0	0	0
6/13/2024 19:39	20401	ASHF_T2	3	2	-1	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
6/13/2024 19:41	11103	EGYP_T1	0	0	0	0	0	0	0.81	0.79	0	0	0	0	0	0
6/13/2024 19:41	11102	EGYP_T1	2	2	0	0.95	0.3	-0.65	0	0	0	0	0	0	0	0
6/13/2024 19:41	11104	EGYP_T1	7	6	-1	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
6/13/2024 19:42	11104	EGYP_T1	7	6	-1	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
6/13/2024 19:42	11103	EGYP_T1	0	0	0	0	0	0	0.81	0.79	0	0	0	0	0	0
6/13/2024 19:42	11102	EGYP_T1	2	2	0	0.95	0.3	-0.65	0	0	0	0	0	0	0	0
6/13/2024 19:43	63301	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 19:43	63305	GREE_T1	14	15	1	0.18	0.31	0.13	-1.68	-1.68	1	1	0	900	900	0
6/13/2024 19:43	63302	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 19:43	63304	GREE_T1	21	124	103	0.22	0.22	0	0	0	0	0	0	0	0	0
6/13/2024 19:48	65603	QVIL_T2	0	0	0	0	0	0	-1.06	-1.07	0	0	0	0	0	0
6/13/2024 19:50	52501	PROG_T1	0	0	0	0	0	0	0.84	0.8	1	1	0	300	300	0
6/13/2024 20:06	50103	HARR_T3	2	2	0	0.2	0.25	0.05	-1.28	-1.21	1	1	0	1200	1200	0
6/13/2024 20:06	50105	HARR_T3	6	6	0	5.9	5.83	-0.07	0	0	0	0	0	0	0	0
6/13/2024 20:06	50107	HARR_T3	1	1	0	7	6.7	-0.3	0	0	0	0	0	0	0	0
6/13/2024 20:06	50201	HARR_T3	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/13/2024 20:08	57006	WHHI_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
6/13/2024 20:08	57004	WHHI_T2	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
6/13/2024 20:09	40502	CRES_T2	1	4	3	0.1	0.2	0.1	-0.58	-0.65	0	0	0	0	0	0
6/13/2024 20:09	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 20:20	14203	EALL_T1	0	0	0	0	0	0	0.22	0.22	1	1	0	1200	1200	0
6/13/2024 20:20	14201	EALL_T1	6	6	0	2.07	0.96	-1.11	0	0	0	0	0	0	0	0
6/13/2024 20:25	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
6/13/2024 20:25	15702	TANN_T2	0	1	1	0	0	0	-0.08	-0.16	0	0	0	0	0	0
6/13/2024 20:34	25503	MADI_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
6/13/2024 20:44	53501	EVIL_T2	1	1	0	0.2	0.2	0	-0.91	-0.91	2	2	0	1200	1200	0
6/13/2024 20:46	61701	ELIZ_T1	1	1	0	2.2	2.2	0	1.15	1.06	0	0	0	0	0	0
6/13/2024 20:47	10805	CHHI_T2	4	7	3	2.4	9.4	7	-0.57	-0.54	1	1	0	600	600	0
6/13/2024 20:55	66701	STRA_T1	0	0	0	0	0	0	0.54	0.5	1	1	0	600	600	0
6/13/2024 20:57	10801	CHHI_T1	2	5	3	0.75	0.9	0.15	-1.33	-1.36	3	3	0	2100	2100	0
6/13/2024 20:57	66703	STRA_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
6/13/2024 21:01	45702	LIND_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
6/13/2024 21:01	61303	EARL_T1	0	0	0	0	0	0	0.51	0.48	0	0	0	0	0	0
6/13/2024 21:03	64702	LITI_T2	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
6/13/2024 21:05	64702	LITI_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
6/13/2024 21:08	41602	CLEV_T1	5	3	-2	0.18	0.1	-0.08	0	0	1	1	0	600	600	0
6/13/2024 21:27	67502	WEWI_T2	0	0	0	0	0	0	-1.87	-1.96	2	2	0	1800	1800	0
6/13/2024 21:35	45702	LIND_T2	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
6/13/2024 21:41	47203	FAXO_T2	0	0	0	0	0	0	-1.68	-1.69	1	1	0	1200	1200	0
6/13/2024 21:52	57303	MOAL_T2	1	1	0	7.3	7	-0.3	0	0	0	0	0	0	0	0
6/13/2024 21:52	57302	MOAL_T2	0	0	0	0	0	0	-1.05	-1.07	1	1	0	1200	1200	0
6/13/2024 21:52	57304	MOAL_T2	5	0	-5	0.12	0	-0.12	0	0	0	0	0	0	0	0
6/13/2024 22:04	50202	HARR_T3	0	0	0	0	0	0	-1.31	-1.31	0	0	0	0	0	0
6/13/2024 22:04	50105	HARR_T3	6	6	0	6.17	6.3	0.13	0	0	0	0	0	0	0	0
6/13/2024 22:04	50201	HARR_T3	2	1	-1	4.6	9	4.4	0	0	0	0	0	0	0	0
6/13/2024 22:04	50107	HARR_T3	1	1	0	7	6.6	-0.4	0	0	0	0	0	0	0	0
6/13/2024 22:04	50103	HARR_T3	2	2	0	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
6/13/2024 22:07	60801	BUCK_T1	7	16	9	0.11	0.16	0.05	0	0	0	0	0	0	0	0
6/13/2024 22:07	60803	BUCK_T1	14	15	1	0.19	0.29	0.1	-0.94	-0.95	1	1	0	600	600	0
6/13/2024 22:09	60803	BUCK_T1	14	15	1	0.19	0.29	0.1	-1.89	-1.9	2	2	0	1200	1200	0
6/13/2024 22:09	60801	BUCK_T1	7	16	9	0.11	0.16	0.05	0	0	0	0	0	0	0	0
6/13/2024 22:13	60803	BUCK_T1	14	15	1	0.19	0.29	0.1	-0.94	-0.95	1	1	0	600	600	0
6/13/2024 22:13	60801	BUCK_T1	7	16	9	0.11	0.16	0.05	0	0	0	0	0	0	0	0
6/13/2024 22:18	46802	HEPB_T1	1	1	0	0.2	0.5	0.3	0.05	0.03	0	0	0	0	0	0
6/13/2024 22:19	46801	HEPB_T2	21	37	16	0.38	0.31	-0.07	0	0	0	0	0	0	0	0
6/13/2024 22:19	46803	HEPB_T2	7	13	6	0.17	0.2	0.03	0.64	0.63	0	0	0	0	0	0
6/13/2024 22:20	46803	HEPB_T2	7	13	6	0.17	0.2	0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/13/2024 22:20	46801	HEPB_T2	21	37	16	0.38	0.31	-0.07	-0.01	-0.04	0	0	0	0	0	0
6/13/2024 22:21	61701	ELIZ_T1	1	1	0	2.5	2.4	-0.1	0.93	0.81	0	0	0	0	0	0
6/13/2024 22:23	56801	BENV_T1	10	11	1	0.62	1.06	0.44	-0.41	-0.43	1	1	0	600	600	0
6/13/2024 22:24	56802	BENV_T2	0	0	0	0	0	0	-0.97	-1	0	0	0	0	0	0
6/13/2024 22:24	56801	BENV_T1	10	11	1	0.62	1.06	0.44	-0.41	-0.43	1	1	0	600	600	0
6/13/2024 22:25	56801	BENV_T1	10	11	1	0.62	1.06	0.44	-1.22	-1.28	3	3	0	1800	1800	0
6/13/2024 22:25	44301	BEAV_T2	0	0	0	0	0	0	0.3	0.42	1	1	0	600	600	0
6/13/2024 22:26	56801	BENV_T1	10	11	1	0.62	1.06	0.44	-0.41	-0.43	1	1	0	600	600	0
6/13/2024 22:27	56801	BENV_T1	10	11	1	0.62	1.06	0.44	-0.81	-0.86	2	2	0	1200	1200	0
6/13/2024 22:28	10801	CHHI_T1	1	1	0	2.5	1.2	-1.3	-1.52	-1.55	3	3	0	2100	2100	0
6/13/2024 22:28	17002	RIRO_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
6/13/2024 22:28	10602	BLGL_T2	1	1	0	8.2	8.7	0.5	0.55	0.52	0	0	0	0	0	0
6/13/2024 22:28	60305	TWVA_T2	0	0	0	0	0	0	1.21	1.21	0	0	0	0	0	0
6/13/2024 22:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:29	40502	CRES_T2	0	6	6	0	0.2	0.2	-0.59	-0.62	0	0	0	0	0	0
6/13/2024 22:30	16101	BING_T2	0	0	0	0	0	0	0.82	0.8	0	0	0	0	0	0
6/13/2024 22:30	65604	QVIL_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
6/13/2024 22:30	11103	EGYP_T1	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
6/13/2024 22:30	16102	BING_T2	14	15	1	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
6/13/2024 22:30	48302	ORWI_T2	2	2	0	0.95	1.2	0.25	-0.45	-0.48	0	0	0	0	0	0
6/13/2024 22:31	50107	HARR_T3	1	1	0	7.2	6.7	-0.5	0.82	0.82	0	0	0	0	0	0
6/13/2024 22:31	64201	KINZ_T1	10	1	-9	0.29	1.3	1.01	-0.48	-0.19	3	2	-1	1500	1200	-300
6/13/2024 22:31	64203	KINZ_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/13/2024 22:31	64204	KINZ_T1	4	1	-3	0.33	0.4	0.07	0	0	0	0	0	0	0	0
6/13/2024 22:31	50201	HARR_T3	1	1	0	9	9.8	0.8	0	0	0	0	0	0	0	0
6/13/2024 22:31	50105	HARR_T3	6	6	0	6.48	6.35	-0.13	0	0	0	0	0	0	0	0
6/13/2024 22:31	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 22:31	65004	NEFF_T2	0	0	0	0	0	0	-0.59	-0.6	1	1	0	600	600	0
6/13/2024 22:32	25404	LAHA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 22:32	12701	MACU_T1	0	0	0	0	0	0	-0.91	-0.92	1	1	0	1200	1200	0
6/13/2024 22:32	67805	WLAN_T1	18	0	-18	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/13/2024 22:32	10805	CHHI_T2	1	1	0	9.3	8.8	-0.5	-0.77	-0.79	1	1	0	600	600	0
6/13/2024 22:32	25402	LAHA_T2	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
6/13/2024 22:32	67803	WLAN_T1	0	0	0	0	0	0	-1.05	-1.08	0	0	0	0	0	0
6/13/2024 22:33	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/13/2024 22:33	29402	BELT_T1	1	1	0	8.7	9.3	0.6	0	0	0	0	0	0	0	0
6/13/2024 22:33	13302	ORVI_T2	0	0	0	0	0	0	0.12	0.17	0	0	0	0	0	0
6/13/2024 22:33	61102	BERK_T5	0	0	0	0	0	0	0.3	0.26	2	2	0	600	600	0
6/13/2024 22:33	24501	GOUL_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
6/13/2024 22:33	23202	HIRU_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
6/13/2024 22:33	65001	NEFF_T2	0	0	0	0	0	0	-0.51	-0.53	1	1	0	1200	1200	0
6/13/2024 22:33	14204	EALL_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
6/13/2024 22:34	25402	LAHA_T2	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
6/13/2024 22:34	55101	WERT_T1	0	0	0	0	0	0	-1.75	-1.75	3	3	0	2400	2400	0
6/13/2024 22:34	58006	WCAR_T2	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
6/13/2024 22:34	15702	TANN_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
6/13/2024 22:34	52004	LING_T2	0	1	1	0	0	0	0.36	0.35	0	0	0	0	0	0
6/13/2024 22:34	63401	HONY_T1	0	0	0	0	0	0	0.09	0.08	1	1	0	600	600	0
6/13/2024 22:34	16102	BING_T2	14	15	1	0.36	0.3	-0.06	-0.63	-0.65	1	1	0	1200	1200	0
6/13/2024 22:34	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:34	66503	SMAN_T2	0	0	0	0	0	0	0.83	0.77	0	0	0	0	0	0
6/13/2024 22:34	40502	CRES_T2	6	7	1	0.2	0.19	-0.01	-0.59	-0.62	0	0	0	0	0	0
6/13/2024 22:34	15703	TANN_T2	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
6/13/2024 22:34	61102	BERK_T5	0	0	0	0	0	0	0.15	0.13	1	1	0	300	300	0
6/13/2024 22:34	66902	SHIL_T2	3	4	1	0.13	0.13	0	0	0	0	0	0	0	0	0
6/13/2024 22:34	25404	LAHA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 22:34	66901	SHIL_T2	43	59	16	0.13	0.13	0	-0.6	-0.68	0	0	0	0	0	0
6/13/2024 22:34	67603	WARW_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
6/13/2024 22:34	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/13/2024 22:35	20603	GRWO_T2	5	18	13	0.12	0.18	0.06	-0.49	-0.5	1	1	0	900	900	0
6/13/2024 22:35	61102	BERK_T5	0	0	0	0	0	0	0.3	0.26	2	2	0	600	600	0
6/13/2024 22:35	52004	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:35	60502	NMAN_T2	0	0	0	0	0	0	0.17	0.09	0	0	0	0	0	0
6/13/2024 22:35	66504	SMAN_T2	0	0	0	0	0	0	-1.84	-2.04	2	2	0	2400	2400	0
6/13/2024 22:35	60501	NMAN_T2	3	3	0	2.83	3.5	0.67	0	0	0	0	0	0	0	0
6/13/2024 22:35	29402	BELT_T1	1	1	0	8.7	9.3	0.6	0	0	0	0	0	0	0	0
6/13/2024 22:35	20403	ASHF_T2	0	0	0	0	0	0	0.57	0.54	0	0	0	0	0	0
6/13/2024 22:35	24902	WHHA_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
6/13/2024 22:35	52002	LING_T2	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
6/13/2024 22:35	67605	WARW_T1	0	0	0	0	0	0	-1.2	-1.04	0	0	0	0	0	0
6/13/2024 22:35	67602	WARW_T2	0	0	0	0	0	0	0.03	0.01	2	2	0	1500	1500	0
6/13/2024 22:35	40502	CRES_T2	6	7	1	0.2	0.19	-0.01	-0.59	-0.62	0	0	0	0	0	0
6/13/2024 22:35	42201	SHEN_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
6/13/2024 22:35	67503	WEWI_T2	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
6/13/2024 22:35	20401	ASHF_T2	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
6/13/2024 22:35	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/13/2024 22:35	11507	FREE_T2	0	7	7	0	0.38	0.38	0.8	1.36	1	1	0	600	600	0
6/13/2024 22:35	56802	BENV_T2	0	0	0	0	0	0	-0.97	-1	0	0	0	0	0	0
6/13/2024 22:35	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:35	57006	WHHI_T2	1	1	0	0.1	0.3	0.2	0.53	0.48	1	1	0	600	600	0
6/13/2024 22:35	40602	PIGR_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/13/2024 22:35	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:35	63401	HONY_T1	0	0	0	0	0	0	0.09	0.08	1	1	0	600	600	0
6/13/2024 22:35	20601	GRWO_T2	1	1	0	0.3	0	-0.3	0.37	0.37	0	0	0	0	0	0
6/13/2024 22:36	14403	SSLA_T1	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
6/13/2024 22:36	16302	ALPA_T2	0	0	0	0	0	0	1.02	1.03	0	0	0	0	0	0
6/13/2024 22:36	50701	SMEC_T1	0	0	0	0	0	0	-0.52	-0.54	1	1	0	900	900	0
6/13/2024 22:36	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:36	64203	KINZ_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/13/2024 22:36	64101	REFR_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
6/13/2024 22:36	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 22:36	64201	KINZ_T1	10	1	-9	0.29	1.3	1.01	-0.19	-0.23	3	2	-1	1500	1200	-300
6/13/2024 22:36	46504	LOHA_T1	2	2	0	1.15	0.55	-0.6	0	0	0	0	0	0	0	0
6/13/2024 22:36	65603	QVIL_T2	0	0	0	0	0	0	-0.63	-0.65	0	0	0	0	0	0
6/13/2024 22:36	65502	MOJO_T2	0	0	0	0	0	0	-1.37	-1.36	1	1	0	900	900	0
6/13/2024 22:36	60501	NMAN_T2	3	3	0	2.83	3.5	0.67	0	0	0	0	0	0	0	0
6/13/2024 22:36	13503	MCMI_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
6/13/2024 22:36	46506	LOHA_T1	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
6/13/2024 22:36	57006	WHHI_T2	1	1	0	0.1	0.3	0.2	0.53	0.48	1	1	0	600	600	0
6/13/2024 22:36	54203	PENN_T1	5	15	10	0.84	0.44	-0.4	0	0	0	0	0	0	0	0
6/13/2024 22:36	13303	ORVI_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
6/13/2024 22:36	14404	SSLA_T1	1	1	0	3.9	4.4	0.5	0.15	0.14	0	0	0	0	0	0
6/13/2024 22:36	29402	BELT_T1	1	1	0	8.7	9.3	0.6	0	0	0	0	0	0	0	0
6/13/2024 22:36	54201	PENN_T1	21	41	20	0.38	0.41	0.03	-1.7	-1.69	0	0	0	0	0	0
6/13/2024 22:36	40502	CRES_T2	6	7	1	0.2	0.19	-0.01	-2.36	-2.49	0	0	0	0	0	0
6/13/2024 22:36	60502	NMAN_T2	0	0	0	0	0	0	0.09	-0.01	0	0	0	0	0	0
6/13/2024 22:36	52004	LING_T2	0	1	1	0	0	0	0.36	0.35	0	0	0	0	0	0
6/13/2024 22:36	64204	KINZ_T1	4	1	-3	0.33	0.4	0.07	0	0	0	0	0	0	0	0
6/13/2024 22:37	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:37	67605	WARW_T1	0	0	0	0	0	0	-2.07	-2.11	0	0	0	0	0	0
6/13/2024 22:37	54201	PENN_T1	21	41	20	0.38	0.41	0.03	-3.37	-3.38	0	0	0	0	0	0
6/13/2024 22:37	14401	SSLA_T1	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
6/13/2024 22:37	52002	LING_T2	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
6/13/2024 22:37	63203	MGTN_T1	0	0	0	0	0	0	-0.12	-0.12	1	1	0	600	600	0
6/13/2024 22:37	46206	DANV_T2	0	0	0	0	0	0	3.06	3.06	1	1	0	1200	1200	0
6/13/2024 22:37	64101	REFR_T1	0	0	0	0	0	0	0.69	0.66	0	0	0	0	0	0
6/13/2024 22:37	56802	BENV_T2	0	0	0	0	0	0	-1	-1.02	0	0	0	0	0	0
6/13/2024 22:37	64902	MILL_T2	0	0	0	0	0	0	-0.42	-0.48	2	2	0	1800	1800	0
6/13/2024 22:37	11104	EGYP_T1	0	0	0	0	0	0	0.51	0.48	0	0	0	0	0	0
6/13/2024 22:37	14801	TREI_T2	0	0	0	0	0	0	0.85	0.82	0	0	0	0	0	0
6/13/2024 22:37	54203	PENN_T1	5	15	10	0.84	0.44	-0.4	0	0	0	0	0	0	0	0
6/13/2024 22:37	57103	SPHI_T2	0	0	0	0	0	0	-2.8	-2.75	1	1	0	600	600	0
6/13/2024 22:37	13501	MCMI_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
6/13/2024 22:37	16302	ALPA_T2	0	0	0	0	0	0	1.02	1.03	0	0	0	0	0	0
6/13/2024 22:37	58003	WCAR_T1	1	1	0	1.6	1.7	0.1	0.27	0.25	1	1	0	600	600	0
6/13/2024 22:37	14404	SSLA_T1	1	1	0	3.9	4.4	0.5	0	0	0	0	0	0	0	0
6/13/2024 22:37	52004	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:37	14403	SSLA_T1	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
6/13/2024 22:37	57106	SPHI_T2	3	3	0	1.23	1.43	0.2	0	0	0	0	0	0	0	0
6/13/2024 22:37	46001	BERW_T1	0	0	0	0	0	0	0.97	0.94	0	0	0	0	0	0
6/13/2024 22:37	58001	WCAR_T1	2	4	2	0.15	0.4	0.25	0	0	0	0	0	0	0	0
6/13/2024 22:37	57104	SPHI_T2	1	1	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
6/13/2024 22:37	13905	SEID_T1	0	0	0	0	0	0	-0.67	-0.68	1	1	0	1200	1200	0
6/13/2024 22:38	46501	LOHA_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
6/13/2024 22:38	10805	CHHI_T2	1	1	0	9.3	8.8	-0.5	-0.79	-0.81	1	1	0	600	600	0
6/13/2024 22:38	61102	BERK_T5	0	0	0	0	0	0	0.13	0.05	1	1	0	300	300	0
6/13/2024 22:38	24602	VARD_T2	423	706	283	0.38	0.49	0.11	0	0	0	0	0	0	0	0
6/13/2024 22:38	64101	REFR_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
6/13/2024 22:38	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/13/2024 22:38	12301	LANA_T2	0	0	0	0	0	0	-1.02	-0.97	1	1	0	1200	1200	0
6/13/2024 22:38	63305	GREE_T1	0	0	0	0	0	0	-0.86	-0.85	0	0	0	0	0	0
6/13/2024 22:38	10704	CATA_T2	0	0	0	0	0	0	1.18	1.17	1	1	0	1200	1200	0
6/13/2024 22:38	12304	LANA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/13/2024 22:38	16102	BING_T2	14	15	1	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
6/13/2024 22:38	23403	HONE_T1	0	24	24	0	0.11	0.11	-0.58	-0.6	0	0	0	0	0	0
6/13/2024 22:38	24603	VARD_T2	8	33	25	0.14	0.23	0.09	-0.82	-0.83	1	1	0	600	600	0
6/13/2024 22:38	66504	SMAN_T2	0	0	0	0	0	0	-1.02	-1	1	1	0	1200	1200	0
6/13/2024 22:38	23203	HIRU_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
6/13/2024 22:38	16103	BING_T2	0	0	0	0	0	0	-1.65	-1.07	2	1	-1	1500	900	-600
6/13/2024 22:38	64902	MILL_T2	0	0	0	0	0	0	-0.21	-0.24	1	1	0	900	900	0
6/13/2024 22:38	55002	NEWP_T1	0	2	2	0	0.15	0.15	-0.18	-0.19	0	0	0	0	0	0
6/13/2024 22:38	16302	ALPA_T2	0	0	0	0	0	0	1.02	1.03	0	0	0	0	0	0
6/13/2024 22:38	56801	BENV_T1	9	14	5	0.82	1.15	0.33	-0.43	-0.45	1	1	0	600	600	0
6/13/2024 22:38	23404	HONE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 22:38	46504	LOHA_T1	2	2	0	1.15	0.55	-0.6	0	0	0	0	0	0	0	0
6/13/2024 22:38	66502	SMAN_T2	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
6/13/2024 22:38	42902	MIDD_T2	0	0	0	0	0	0	-1.03	-1.05	1	1	0	600	600	0
6/13/2024 22:38	56501	ROCK_T2	3	4	1	3.37	2.08	-1.29	-0.76	-0.79	0	0	0	0	0	0
6/13/2024 22:38	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:39	58001	WCAR_T1	2	4	2	0.15	0.4	0.25	0	0	0	0	0	0	0	0
6/13/2024 22:39	42902	MIDD_T2	0	0	0	0	0	0	-1.03	-1.05	1	1	0	600	600	0
6/13/2024 22:39	67303	WYOM_T2	0	0	0	0	0	0	-1.31	-1.41	0	0	0	0	0	0
6/13/2024 22:39	56802	BENV_T2	0	0	0	0	0	0	-1	-1.02	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/13/2024 22:39	14404	SSLA_T1	1	1	0	3.9	4.4	0.5	0	0	0	0	0	0	0	0
6/13/2024 22:39	40602	PIGR_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/13/2024 22:39	23001	SAJO_T1	0	0	0	0	0	0	0.18	0.29	0	0	0	0	0	0
6/13/2024 22:39	58003	WCAR_T1	1	1	0	1.6	1.7	0.1	0.27	0.25	1	1	0	600	600	0
6/13/2024 22:39	67602	WARW_T2	0	0	0	0	0	0	0.02	-0.02	4	4	0	3000	3000	0
6/13/2024 22:39	42701	AUGU_T1	72	64	-8	1.14	0.45	-0.69	0	0	0	0	0	0	0	0
6/13/2024 22:39	51101	CARL_T1	1	1	0	6	5.9	-0.1	-1.02	-1.09	1	1	0	600	600	0
6/13/2024 22:39	14403	SSLA_T1	1	1	0	1.4	1	-0.4	0.98	0.95	0	0	0	0	0	0
6/13/2024 22:39	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/13/2024 22:39	40502	CRES_T2	6	7	1	0.2	0.19	-0.01	-1.25	-1.31	0	0	0	0	0	0
6/13/2024 22:39	48302	ORWI_T2	2	2	0	0.95	1.2	0.25	-0.48	-0.5	0	0	0	0	0	0
6/13/2024 22:39	61701	ELIZ_T1	1	1	0	2.2	2.4	0.2	0.81	0.75	0	0	0	0	0	0
6/13/2024 22:39	67603	WARW_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
6/13/2024 22:39	56501	ROCK_T2	3	4	1	3.37	2.08	-1.29	-0.76	-0.79	0	0	0	0	0	0
6/13/2024 22:39	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:39	47001	HUGH_T2	0	0	0	0	0	0	-0.6	-0.64	0	0	0	0	0	0
6/13/2024 22:39	56604	HAMP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:39	13503	MCMI_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
6/13/2024 22:39	47002	HUGH_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/13/2024 22:39	40101	HUNT_T2	1	1	0	0.2	0	-0.2	-0.51	-0.53	0	0	0	0	0	0
6/13/2024 22:40	58001	WCAR_T1	2	4	2	0.15	0.4	0.25	0	0	0	0	0	0	0	0
6/13/2024 22:40	44301	BEAV_T2	0	0	0	0	0	0	0.42	0.45	1	1	0	600	600	0
6/13/2024 22:40	52402	GRPA_T2	1	5	4	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
6/13/2024 22:40	52404	GRPA_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
6/13/2024 22:40	12701	MACU_T1	0	0	0	0	0	0	-0.92	-0.94	1	1	0	1200	1200	0
6/13/2024 22:40	40502	CRES_T2	6	7	1	0.2	0.19	-0.01	-0.62	-0.66	0	0	0	0	0	0
6/13/2024 22:40	42701	AUGU_T1	72	64	-8	1.14	0.45	-0.69	0	0	0	0	0	0	0	0
6/13/2024 22:40	22001	BOHE_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:40	46001	BERW_T1	0	0	0	0	0	0	0.97	0.94	0	0	0	0	0	0
6/13/2024 22:40	67805	WLAN_T1	18	0	-18	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/13/2024 22:40	12606	MACA_T1	0	7	7	0	0.18	0.18	0	0	0	0	0	0	0	0
6/13/2024 22:40	67801	WLAN_T1	0	0	0	0	0	0	0.07	0.02	0	0	0	0	0	0
6/13/2024 22:40	45501	DERR_T2	0	0	0	0	0	0	0.18	0.19	2	2	0	1800	1800	0
6/13/2024 22:40	12807	MICK_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/13/2024 22:40	52403	GRPA_T2	1	2	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/13/2024 22:40	58003	WCAR_T1	1	1	0	1.6	1.7	0.1	0.27	0.25	1	1	0	600	600	0
6/13/2024 22:40	22003	BOHE_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
6/13/2024 22:40	16302	ALPA_T2	0	0	0	0	0	0	1.02	1.03	0	0	0	0	0	0
6/13/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
6/13/2024 22:40	14204	EALL_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
6/13/2024 22:40	46206	DANV_T2	0	0	0	0	0	0	3.06	3.06	1	1	0	1200	1200	0
6/13/2024 22:40	12801	MICK_T1	0	0	0	0	0	0	-0.81	-0.84	1	1	0	600	600	0
6/13/2024 22:40	43302	WATS_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/13/2024 22:40	12604	MACA_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
6/13/2024 22:40	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/13/2024 22:40	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:40	55003	NEWP_T2	0	0	0	0	0	0	-0.67	-0.68	1	1	0	600	600	0
6/13/2024 22:40	66502	SMAN_T2	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
6/13/2024 22:40	63304	GREE_T1	0	0	0	0	0	0	-1.23	-1.26	0	0	0	0	0	0
6/13/2024 22:40	65604	QVIL_T2	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
6/13/2024 22:40	52401	GRPA_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/13/2024 22:40	43301	WATS_T2	0	0	0	0	0	0	-0.4	-0.41	1	1	0	900	900	0
6/13/2024 22:41	40502	CRES_T2	6	7	1	0.2	0.19	-0.01	-1.25	-1.31	0	0	0	0	0	0
6/13/2024 22:41	21206	ECAR_T2	1	1	0	7.1	7.7	0.6	0.09	0.07	0	0	0	0	0	0
6/13/2024 22:41	24602	VARD_T2	423	706	283	0.38	0.49	0.11	-0.96	-0.96	0	0	0	0	0	0
6/13/2024 22:41	29402	BELT_T1	1	1	0	8.7	9.3	0.6	0	0	0	0	0	0	0	0
6/13/2024 22:41	54203	PENN_T1	5	15	10	0.84	0.44	-0.4	0.58	0.56	0	0	0	0	0	0
6/13/2024 22:41	65603	QVIL_T2	0	0	0	0	0	0	-0.63	-0.65	0	0	0	0	0	0
6/13/2024 22:41	55101	WERT_T1	0	0	0	0	0	0	-1.75	-1.76	3	3	0	2400	2400	0
6/13/2024 22:41	63401	HONY_T1	0	0	0	0	0	0	0.08	0.07	1	1	0	600	600	0
6/13/2024 22:41	61102	BERK_T5	0	0	0	0	0	0	0.13	0.05	1	1	0	300	300	0
6/13/2024 22:41	65901	SMIR_T2	1	1	0	7.5	7.8	0.3	-1.07	-1.15	2	2	0	1500	1500	0
6/13/2024 22:41	11804	FRAN_T1	0	2	2	0	0	0	1.06	0.94	0	0	0	0	0	0
6/13/2024 22:41	42802	SELI_T1	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
6/13/2024 22:41	64201	KINZ_T1	10	1	-9	0.29	1.3	1.01	0	0	0	0	0	0	0	0
6/13/2024 22:41	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/13/2024 22:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:41	46602	LACR_T1	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
6/13/2024 22:41	56802	BENV_T2	0	0	0	0	0	0	-1.99	-2.04	0	0	0	0	0	0
6/13/2024 22:41	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/13/2024 22:41	55102	WERT_T2	2	0	-2	0.25	0	-0.25	-0.75	-0.89	2	2	0	1200	1200	0
6/13/2024 22:41	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:41	62101	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/13/2024 22:41	14404	SSLA_T1	1	1	0	3.9	4.4	0.5	0	0	0	0	0	0	0	0
6/13/2024 22:41	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 22:41	41902	REED_T1	6	4	-2	0.32	0	-0.32	0	0	0	0	0	0	0	0
6/13/2024 22:41	14403	SSLA_T1	1	1	0	1.4	1	-0.4	0.98	0.95	0	0	0	0	0	0
6/13/2024 22:41	41903	REED_T1	0	0	0	0	0	0	0.23	0.2	1	1	0	1200	1200	0
6/13/2024 22:41	45501	DERR_T2	0	0	0	0	0	0	0.18	0.19	2	2	0	1800	1800	0
6/13/2024 22:41	10801	CHHI_T1	1	1	0	1.2	1.3	0.1	-1.55	-1.58	3	3	0	2100	2100	0
6/13/2024 22:41	64101	REFR_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
6/13/2024 22:41	67203	TEHI_T1	0	0	0	0	0	0	1.77	1.8	3	3	0	2100	2100	0
6/13/2024 22:41	64203	KINZ_T1	2	0	-2	0.1	0	-0.1	-0.06	-0.11	1	1	0	600	600	0
6/13/2024 22:41	64204	KINZ_T1	4	1	-3	0.33	0.4	0.07	0	0	0	0	0	0	0	0
6/13/2024 22:41	67502	WEWI_T2	0	0	0	0	0	0	-0.99	-0.93	1	1	0	900	900	0
6/13/2024 22:41	62102	ELAN_T1	0	0	0	0	0	0	1.32	1.38	0	0	0	0	0	0
6/13/2024 22:41	24603	VARD_T2	8	33	25	0.14	0.23	0.09	0	0	0	0	0	0	0	0
6/13/2024 22:41	54201	PENN_T1	21	41	20	0.38	0.41	0.03	0	0	0	0	0	0	0	0
6/13/2024 22:41	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:41	11104	EGYP_T1	0	0	0	0	0	0	0.51	0.48	0	0	0	0	0	0
6/13/2024 22:42	64101	REFR_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
6/13/2024 22:42	42903	MIDD_T2	0	0	0	0	0	0	0	-0.17	0	0	0	0	0	0
6/13/2024 22:42	43201	MVIL_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
6/13/2024 22:42	14801	TREI_T2	0	0	0	0	0	0	0.85	0.82	0	0	0	0	0	0
6/13/2024 22:42	12604	MACA_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
6/13/2024 22:42	13503	MCMI_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
6/13/2024 22:42	13302	ORVI_T2	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
6/13/2024 22:42	56501	ROCK_T2	3	4	1	3.37	2.08	-1.29	-2.28	-2.38	0	0	0	0	0	0
6/13/2024 22:42	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:42	12606	MACA_T1	0	7	7	0	0.18	0.18	0	0	0	0	0	0	0	0
6/13/2024 22:42	67605	WARW_T1	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
6/13/2024 22:42	47002	HUGH_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/13/2024 22:42	52004	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:42	46001	BERW_T1	0	0	0	0	0	0	1.93	1.89	0	0	0	0	0	0
6/13/2024 22:42	42701	AUGU_T1	72	64	-8	1.14	0.45	-0.69	0	0	0	0	0	0	0	0
6/13/2024 22:42	54201	PENN_T1	21	41	20	0.38	0.41	0.03	0	0	0	0	0	0	0	0
6/13/2024 22:42	47001	HUGH_T2	0	0	0	0	0	0	-0.6	-0.64	0	0	0	0	0	0
6/13/2024 22:42	52401	GRPA_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/13/2024 22:42	67602	WARW_T2	0	0	0	0	0	0	0.01	-0.01	2	2	0	1500	1500	0
6/13/2024 22:42	56802	BENV_T2	0	0	0	0	0	0	-1.99	-2.04	0	0	0	0	0	0
6/13/2024 22:42	63305	GREE_T1	0	0	0	0	0	0	-0.86	-0.85	0	0	0	0	0	0
6/13/2024 22:42	54203	PENN_T1	5	15	10	0.84	0.44	-0.4	0.58	0.56	0	0	0	0	0	0
6/13/2024 22:42	15702	TANN_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
6/13/2024 22:42	10801	CHHI_T1	1	1	0	1.2	1.3	0.1	-1.55	-1.58	3	3	0	2100	2100	0
6/13/2024 22:42	52403	GRPA_T2	1	2	1	0.7	0.4	-0.3	-0.32	-0.33	0	0	0	0	0	0
6/13/2024 22:42	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:42	49803	UNIV_T1	0	0	0	0	0	0	-0.8	-0.84	0	0	0	0	0	0
6/13/2024 22:42	67103	SPRI_T1	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
6/13/2024 22:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:42	53501	EVIL_T2	1	2	1	0.2	0.7	0.5	-0.74	-0.76	1	1	0	600	600	0
6/13/2024 22:42	52002	LING_T2	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
6/13/2024 22:42	44301	BEAV_T2	0	0	0	0	0	0	0.83	0.9	2	2	0	1200	1200	0
6/13/2024 22:42	43202	MVIL_T2	38	71	33	0.18	0.64	0.46	0	0	0	0	0	0	0	0
6/13/2024 22:42	52402	GRPA_T2	1	5	4	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
6/13/2024 22:42	56504	ROCK_T2	0	0	0	0	0	0	-1	-1.03	0	0	0	0	0	0
6/13/2024 22:42	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/13/2024 22:42	15703	TANN_T2	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
6/13/2024 22:43	64101	REFR_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
6/13/2024 22:43	43302	WATS_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/13/2024 22:43	20403	ASHF_T2	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
6/13/2024 22:43	10705	CATA_T2	0	0	0	0	0	0	-1.72	-1.73	1	1	0	900	900	0
6/13/2024 22:43	42701	AUGU_T1	72	64	-8	1.14	0.45	-0.69	0	0	0	0	0	0	0	0
6/13/2024 22:43	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/13/2024 22:43	46504	LOHA_T1	2	2	0	1.15	0.55	-0.6	0	0	0	0	0	0	0	0
6/13/2024 22:43	57104	SPHI_T2	1	1	0	2	1.7	-0.3	-1.29	-1.33	1	1	0	900	900	0
6/13/2024 22:43	45402	WELO_T2	23	45	22	0.19	0.31	0.12	-0.43	-0.45	0	0	0	0	0	0
6/13/2024 22:43	52002	LING_T2	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
6/13/2024 22:43	54504	ENOL_T2	0	0	0	0	0	0	-2.29	-2.38	1	1	0	600	600	0
6/13/2024 22:43	57106	SPHI_T2	3	3	0	1.23	1.43	0.2	0	0	0	0	0	0	0	0
6/13/2024 22:43	52004	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:43	56701	SMEC_T1	0	0	0	0	0	0	-0.54	-0.56	1	1	0	900	900	0
6/13/2024 22:43	12701	MACU_T1	0	0	0	0	0	0	-0.92	-0.94	1	1	0	1200	1200	0
6/13/2024 22:43	46501	LOHA_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
6/13/2024 22:43	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:43	53601	DALM_T2	0	1	1	0	0.2	0.2	0.59	0.58	0	0	0	0	0	0
6/13/2024 22:43	43301	WATS_T2	0	0	0	0	0	0	-0.4	-0.41	1	1	0	900	900	0
6/13/2024 22:43	56802	BENV_T2	0	0	0	0	0	0	-1.99	-2.04	0	0	0	0	0	0
6/13/2024 22:43	46506	LOHA_T1	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
6/13/2024 22:43	21203	ECAR_T1	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
6/13/2024 22:43	56501	ROCK_T2	3	4	1	3.37	2.08	-1.29	-0.76	-0.79	0	0	0	0	0	0
6/13/2024 22:43	29402	BELT_T1	1	1	0	8.7	9.3	0.6	0	0	0	0	0	0	0	0
6/13/2024 22:43	67602	WARW_T2	0	0	0	0	0	0	0.02	-0.02	4	4	0	3000	3000	0
6/13/2024 22:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:43	58401	MORO_T1	0	0	0	0	0	0	-1.3	-1.34	2	2	0	1200	1200	0
6/13/2024 22:43	40502	CRES_T2	6	7	1	0.2	0.19	-0.01	-0.62	-0.66	0	0	0	0	0	0
6/13/2024 22:43	10805	CHHI_T2	1	1	0	9.3	8.8	-0.5	-0.79	-0.81	1	1	0	600	600	0
6/13/2024 22:43	45502	DERR_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
6/13/2024 22:43	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/13/2024 22:44	56501	ROCK_T2	3	4	1	3.37	2.08	-1.29	-0.76	-0.79	0	0	0	0	0	0
6/13/2024 22:44	46001	BERW_T1	0	0	0	0	0	0	0.97	0.94	0	0	0	0	0	0
6/13/2024 22:44	46504	LOHA_T1	2	2	0	1.15	0.55	-0.6	0	0	0	0	0	0	0	0
6/13/2024 22:44	62102	ELAN_T1	0	0	0	0	0	0	1.32	1.38	0	0	0	0	0	0
6/13/2024 22:44	24101	EHAZ_T1	6	0	-6	0.23	0	-0.23	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/13/2024 22:44	56801	BENV_T1	9	14	5	0.82	1.15	0.33	-0.43	-0.45	1	1	0	600	600	0
6/13/2024 22:44	53501	EVIL_T2	1	2	1	0.2	0.7	0.5	-1.48	-1.52	2	2	0	1200	1200	0
6/13/2024 22:44	45501	DERR_T2	0	0	0	0	0	0	0.18	0.19	2	2	0	1800	1800	0
6/13/2024 22:44	58003	WCAR_T1	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
6/13/2024 22:44	58705	ROSE_T2	5	5	0	0.7	0.94	0.24	0	0	0	0	0	0	0	0
6/13/2024 22:44	26401	INOR_T1	1	1	0	8.1	8.9	0.8	0	0	0	0	0	0	0	0
6/13/2024 22:44	52403	GRPA_T2	1	2	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/13/2024 22:44	46206	DANV_T2	0	0	0	0	0	0	3.06	3.06	1	1	0	1200	1200	0
6/13/2024 22:44	58001	WCAR_T1	2	4	2	0.15	0.4	0.25	1.02	1.01	0	0	0	0	0	0
6/13/2024 22:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:44	55002	NEWP_T1	0	2	2	0	0.15	0.15	-0.09	-0.1	0	0	0	0	0	0
6/13/2024 22:44	52402	GRPA_T2	1	5	4	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
6/13/2024 22:44	46506	LOHA_T1	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
6/13/2024 22:44	43302	WATS_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/13/2024 22:44	58706	ROSE_T2	1	1	0	1.5	1.2	-0.3	0	0	0	0	0	0	0	0
6/13/2024 22:44	62101	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/13/2024 22:44	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/13/2024 22:44	20603	GRWO_T2	5	18	13	0.12	0.18	0.06	0	0	0	0	0	0	0	0
6/13/2024 22:44	26402	INOR_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
6/13/2024 22:44	20601	GRWO_T2	1	1	0	0.3	0	-0.3	0.37	0.36	0	0	0	0	0	0
6/13/2024 22:44	45502	DERR_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
6/13/2024 22:44	56504	ROCK_T2	0	0	0	0	0	0	-1	-1.03	0	0	0	0	0	0
6/13/2024 22:44	24104	EHAZ_T1	0	0	0	0	0	0	-0.8	-0.8	1	1	0	1200	1200	0
6/13/2024 22:44	66503	SMAN_T2	0	0	0	0	0	0	0.77	0.72	0	0	0	0	0	0
6/13/2024 22:44	27005	BELL_T1	0	0	0	0	0	0	-1.39	-1.42	0	0	0	0	0	0
6/13/2024 22:44	24901	WHHA_T1	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
6/13/2024 22:44	52401	GRPA_T2	1	1	0	0.2	0.8	0.6	-0.37	-0.39	0	0	0	0	0	0
6/13/2024 22:44	56802	BENV_T2	0	0	0	0	0	0	-1	-1.02	0	0	0	0	0	0
6/13/2024 22:44	24105	EHAZ_T1	4	4	0	5.45	5.15	-0.3	0	0	0	0	0	0	0	0
6/13/2024 22:44	64101	REFR_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
6/13/2024 22:44	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/13/2024 22:44	58702	ROSE_T2	0	0	0	0	0	0	-2.16	-2.18	0	0	0	0	0	0
6/13/2024 22:44	43301	WATS_T2	0	0	0	0	0	0	-0.4	-0.41	1	1	0	900	900	0
6/13/2024 22:45	20601	GRWO_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/13/2024 22:45	12701	MACU_T1	0	0	0	0	0	0	-0.92	-0.94	1	1	0	1200	1200	0
6/13/2024 22:45	58003	WCAR_T1	1	8	7	1.5	0.33	-1.17	0.27	0.25	1	1	0	600	600	0
6/13/2024 22:45	56802	BENV_T2	0	1	1	0	0.4	0.4	-1	-1.02	0	0	0	0	0	0
6/13/2024 22:45	45501	DERR_T2	0	0	0	0	0	0	0.18	0.19	2	2	0	1800	1800	0
6/13/2024 22:45	46004	BERW_T2	0	0	0	0	0	0	0.23	0.33	0	0	0	0	0	0
6/13/2024 22:45	40502	CRES_T2	1	9	8	0.1	0.17	0.07	-0.62	-0.66	0	0	0	0	0	0
6/13/2024 22:45	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:45	24702	FLND_T2	0	0	0	0	0	0	-0.1	0.2	0	0	0	0	0	0
6/13/2024 22:45	52004	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/13/2024 22:45	53501	EVIL_T2	1	2	1	0.6	0.85	0.25	-0.74	-0.76	1	1	0	600	600	0
6/13/2024 22:45	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:45	42902	MIDD_T2	0	0	0	0	0	0	-2.05	-2.09	2	2	0	1200	1200	0
6/13/2024 22:45	40901	JESH_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/13/2024 22:45	20603	GRWO_T2	18	18	0	0.18	0.17	-0.01	-0.5	-0.5	1	1	0	900	900	0
6/13/2024 22:45	43304	WATS_T2	0	0	0	0	0	0	-0.22	-0.32	0	0	0	0	0	0
6/13/2024 22:45	44902	SCOT_T2	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
6/13/2024 22:45	11103	EGYP_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
6/13/2024 22:45	64101	REFR_T1	0	0	0	0	0	0	0.69	0.66	0	0	0	0	0	0
6/13/2024 22:45	40902	JESH_T1	0	0	0	0	0	0	-0.46	-0.5	0	0	0	0	0	0
6/13/2024 22:45	67605	WARW_T1	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
6/13/2024 22:45	23401	HONE_T2	0	0	0	0	0	0	0.28	0.22	0	0	0	0	0	0
6/13/2024 22:45	58001	WCAR_T1	4	4	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
6/13/2024 22:45	42701	AUGU_T1	64	53	-11	0.99	0.36	-0.63	0	0	0	0	0	0	0	0
6/13/2024 22:45	55101	WERT_T1	0	0	0	0	0	0	-1.75	-1.76	3	3	0	2400	2400	0
6/13/2024 22:45	52002	LING_T2	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
6/13/2024 22:45	67602	WARW_T2	0	0	0	0	0	0	0.01	-0.01	2	2	0	1500	1500	0
6/13/2024 22:45	67201	TEHI_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
6/13/2024 22:46	24201	PROV_T3	1	1	0	8.4	8.2	-0.2	-1.03	-1.05	1	1	0	1200	1200	0
6/13/2024 22:46	56501	ROCK_T2	2	5	3	0.25	0.5	0.25	-0.76	-0.79	0	0	0	0	0	0
6/13/2024 22:46	58006	WCAR_T2	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
6/13/2024 22:46	46206	DANV_T2	0	1	1	0	0	0	3.06	3.06	1	1	0	1200	1200	0
6/13/2024 22:46	24204	PROV_T3	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
6/13/2024 22:46	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/13/2024 22:46	29402	BELT_T1	1	1	0	9	9.4	0.4	0	0	0	0	0	0	0	0
6/13/2024 22:46	56801	BENV_T1	11	14	3	1.06	1.16	0.1	-0.43	-0.45	1	1	0	600	600	0
6/13/2024 22:46	14403	SSLA_T1	1	1	0	1	0.6	-0.4	0.98	0.95	0	0	0	0	0	0
6/13/2024 22:46	44902	SCOT_T2	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
6/13/2024 22:46	64101	REFR_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
6/13/2024 22:46	56802	BENV_T2	0	1	1	0	0.4	0.4	-1.99	-2.04	0	0	0	0	0	0
6/13/2024 22:46	65502	MOJO_T2	0	0	0	0	0	0	-1.37	-1.36	1	1	0	900	900	0
6/13/2024 22:46	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/13/2024 22:46	23001	SAJO_T1	0	0	0	0	0	0	0.18	0.29	0	0	0	0	0	0
6/13/2024 22:46	24205	PROV_T3	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
6/13/2024 22:46	14802	TREI_T2	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
6/13/2024 22:46	46203	DANV_T2	0	0	0	0	0	0	-0.43	-0.48	0	0	0	0	0	0
6/13/2024 22:46	13503	MCMI_T2	0	1	1	0	0	0	0.11	0.1	0	0	0	0	0	0
6/13/2024 22:46	14404	SSLA_T1	1	2	1	4.2	4.5	0.3	0	0	0	0	0	0	0	0
6/13/2024 22:46	55002	NEWP_T1	0	2	2	0	0.25	0.25	-0.09	-0.1	0	0	0	0	0	0
6/13/2024 22:46	40601	PIGR_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
6/13/2024 22:46	20403	ASHF_T2	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
6/13/2024 22:46	21601	EYNO_T1	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
6/13/2024 22:47	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:47	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/13/2024 22:47	40901	JESH_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/13/2024 22:47	56802	BENV_T2	0	1	1	0	0.4	0.4	-1	-1.02	0	0	0	0	0	0
6/13/2024 22:47	40902	JESH_T1	0	0	0	0	0	0	-0.46	-0.5	0	0	0	0	0	0
6/13/2024 22:47	57303	MOAL_T2	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
6/13/2024 22:47	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:47	67605	WARW_T1	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
6/13/2024 22:47	67605	WARW_T1	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
6/13/2024 22:47	67605	WARW_T1	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
6/13/2024 22:47	67605	WARW_T1	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
6/13/2024 22:47	65902	SAKR_T2	0	0	0	0	0	0	-0.51	-0.52	1	1	0	300	300	0
6/13/2024 22:47	58401	MORO_T1	0	0	0	0	0	0	-1.3	-1.34	2	2	0	1200	1200	0
6/13/2024 22:47	46101	MACI_T2	0	0	0	0	0	0	0.76	0.75	0	0	0	0	0	0
6/13/2024 22:47	40502	CRES_T2	1	9	8	0.1	0.17	0.07	-0.62	-0.66	0	0	0	0	0	0
6/13/2024 22:47	58003	WCAR_T1	1	8	7	1.5	0.33	-1.17	0.27	0.25	1	1	0	600	600	0
6/13/2024 22:47	42902	MIDD_T2	0	0	0	0	0	0	-1.03	-1.05	1	1	0	600	600	0
6/13/2024 22:47	58001	WCAR_T1	4	4	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
6/13/2024 22:47	58701	ROSE_T2	0	0	0	0	0	0	-1.02	-1.04	1	1	0	600	600	0
6/13/2024 22:47	46203	DANV_T2	0	0	0	0	0	0	-0.43	-0.48	0	0	0	0	0	0
6/13/2024 22:47	53501	EVIL_T2	1	2	1	0.6	0.85	0.25	-0.74	-0.76	1	1	0	600	600	0
6/13/2024 22:47	58705	ROSE_T2	5	5	0	0.58	1.26	0.68	0	0	0	0	0	0	0	0
6/13/2024 22:47	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:47	57306	MOAL_T2	0	0	0	0	0	0	-2.74	-2.77	1	1	0	1200	1200	0
6/13/2024 22:47	46504	LOHA_T1	2	2	0	0.35	0.85	0.5	0	0	0	0	0	0	0	0
6/13/2024 22:47	46506	LOHA_T1	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
6/13/2024 22:47	58706	ROSE_T2	1	1	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
6/13/2024 22:47	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:47	45501	DERR_T2	0	0	0	0	0	0	0.18	0.19	2	2	0	1800	1800	0
6/13/2024 22:47	65901	SAKR_T2	1	1	0	7.7	7.8	0.1	0	0	0	0	0	0	0	0
6/13/2024 22:47	55101	WERT_T1	0	0	0	0	0	0	-3.51	-3.51	6	6	0	4800	4800	0
6/13/2024 22:47	43301	WATS_T2	0	0	0	0	0	0	-0.4	-0.41	1	1	0	900	900	0
6/13/2024 22:48	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/13/2024 22:48	64201	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
6/13/2024 22:48	52501	PROG_T1	0	0	0	0	0	0	0.89	0.88	1	1	0	300	300	0
6/13/2024 22:48	64203	KINZ_T1	0	0	0	0	0	0	-0.06	-0.11	1	1	0	600	600	0
6/13/2024 22:48	49803	UNIV_T1	0	0	0	0	0	0	-0.8	-0.84	0	0	0	0	0	0
6/13/2024 22:48	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:48	42201	SHEN_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
6/13/2024 22:48	43202	MVIL_T2	54	71	17	0.43	0.64	0.21	-1.2	-1.21	0	0	0	0	0	0
6/13/2024 22:48	52004	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/13/2024 22:48	52002	LING_T2	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
6/13/2024 22:48	43301	WATS_T2	0	0	0	0	0	0	-0.4	-0.41	1	1	0	900	900	0
6/13/2024 22:48	44301	BEAV_T2	0	1	1	0	0	0	0.42	0.45	1	1	0	600	600	0
6/13/2024 22:48	56501	ROCK_T2	2	5	3	0.25	0.5	0.25	-0.76	-0.79	0	0	0	0	0	0
6/13/2024 22:48	64204	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/13/2024 22:48	63302	GREE_T1	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
6/13/2024 22:48	14601	SWHI_T1	0	0	0	0	0	0	-1.16	-1.17	0	0	0	0	0	0
6/13/2024 22:48	63804	HEMP_T1	1	1	0	5.4	5.5	0.1	-1.28	-1.3	0	0	0	0	0	0
6/13/2024 22:48	54501	ENOL_T2	0	0	0	0	0	0	-0.15	-0.16	1	1	0	600	600	0
6/13/2024 22:49	46206	DANV_T2	0	1	1	0	0	0	3.06	3.06	1	1	0	1200	1200	0
6/13/2024 22:49	46506	LOHA_T1	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
6/13/2024 22:49	64101	REFR_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
6/13/2024 22:49	45501	DERR_T2	0	0	0	0	0	0	0.37	0.37	4	4	0	3600	3600	0
6/13/2024 22:49	42903	MIDD_T2	0	0	0	0	0	0	0	-0.17	0	0	0	0	0	0
6/13/2024 22:49	52403	GRPA_T2	1	2	1	0.1	0.4	0.3	-0.32	-0.33	0	0	0	0	0	0
6/13/2024 22:49	40101	HUNT_T2	0	1	1	0	0	0	-1.02	-1.05	0	0	0	0	0	0
6/13/2024 22:49	46203	DANV_T2	0	0	0	0	0	0	-0.43	-0.48	0	0	0	0	0	0
6/13/2024 22:49	65402	MARI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
6/13/2024 22:49	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/13/2024 22:49	52401	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/13/2024 22:49	42701	AUGU_T1	64	53	-11	0.99	0.36	-0.63	0	0	0	0	0	0	0	0
6/13/2024 22:49	40901	JESH_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/13/2024 22:49	46504	LOHA_T1	2	2	0	0.35	0.85	0.5	0	0	0	0	0	0	0	0
6/13/2024 22:49	40902	JESH_T1	0	0	0	0	0	0	-0.46	-0.5	0	0	0	0	0	0
6/13/2024 22:49	52402	GRPA_T2	2	4	2	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/13/2024 22:50	42201	SHEN_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
6/13/2024 22:50	53902	HALI_T2	1	1	0	4.7	4.7	0	-0.65	-0.66	0	0	0	0	0	0
6/13/2024 22:50	52403	GRPA_T2	1	2	1	0.1	0.4	0.3	-0.32	-0.33	0	0	0	0	0	0
6/13/2024 22:50	41902	REED_T1	1	3	2	0.5	0.1	-0.4	1.25	1.23	0	0	0	0	0	0
6/13/2024 22:50	52401	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/13/2024 22:50	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/13/2024 22:50	53903	HALI_T2	2	2	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
6/13/2024 22:50	52402	GRPA_T2	2	4	2	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/13/2024 22:51	42201	SHEN_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
6/13/2024 22:51	52401	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/13/2024 22:51	58401	MORO_T1	0	0	0	0	0	0	-1.3	-1.34	2	2	0	1200	1200	0
6/13/2024 22:51	52402	GRPA_T2	2	4	2	0.35	0.4	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/13/2024 22:51	52403	GRPA_T2	1	2	1	0.1	0.4	0.3	-0.32	-0.33	0	0	0	0	0	0
6/13/2024 22:51	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/13/2024 22:51	42902	MIDD_T2	0	0	0	0	0	0	-1.05	-1.01	1	1	0	600	600	0
6/13/2024 22:51	53501	EVIL_T2	1	2	1	0.6	0.85	0.25	-0.74	-0.76	1	1	0	600	600	0
6/13/2024 22:52	53903	HALI_T2	2	2	0	0.3	0.8	0.5	-0.13	-0.14	0	0	0	0	0	0
6/13/2024 22:52	41902	REED_T1	1	3	2	0.5	0.1	-0.4	1.23	1.21	0	0	0	0	0	0
6/13/2024 22:52	46203	DANV_T2	0	0	0	0	0	0	-0.48	-0.52	0	0	0	0	0	0
6/13/2024 22:52	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 22:52	43304	WATS_T2	0	0	0	0	0	0	-0.32	-0.47	0	0	0	0	0	0
6/13/2024 22:52	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.03	2	2	0	1500	1500	0
6/13/2024 22:52	53902	HALI_T2	1	1	0	4.7	4.7	0	0	0	0	0	0	0	0	0
6/13/2024 22:52	46001	BERW_T1	0	0	0	0	0	0	0.94	0.92	0	0	0	0	0	0
6/13/2024 22:52	43301	WATS_T2	0	0	0	0	0	0	-0.41	-0.43	1	1	0	900	900	0
6/13/2024 22:53	44301	BEAV_T2	0	1	1	0	0	0	0.45	0.32	1	1	0	600	600	0
6/13/2024 22:53	40101	HUNT_T2	0	1	1	0	0	0	-0.53	-0.54	0	0	0	0	0	0
6/13/2024 22:53	43301	WATS_T2	0	0	0	0	0	0	-0.41	-0.43	1	1	0	900	900	0
6/13/2024 22:53	55101	WERT_T1	0	0	0	0	0	0	-1.76	-1.77	3	3	0	2400	2400	0
6/13/2024 22:53	46504	LOHA_T1	2	2	0	0.35	0.85	0.5	0	0	0	0	0	0	0	0
6/13/2024 22:53	46506	LOHA_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
6/13/2024 22:54	52004	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/13/2024 22:54	52002	LING_T2	0	0	0	0	0	0	0.46	0.43	0	0	0	0	0	0
6/13/2024 22:56	42802	SELI_T1	0	0	0	0	0	0	-0.92	-0.94	0	0	0	0	0	0
6/13/2024 22:56	42902	MIDD_T2	0	0	0	0	0	0	-1.05	-1.01	1	1	0	600	600	0
6/13/2024 22:57	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 23:08	61102	BERK_T5	0	0	0	0	0	0	-0.03	0.05	1	1	0	300	300	0
6/13/2024 23:12	61102	BERK_T5	0	0	0	0	0	0	-0.03	0.05	1	1	0	300	300	0
6/13/2024 23:47	43801	SWIL_T1	2	2	0	3.2	3.2	0	0	0	0	0	0	0	0	0
6/13/2024 23:47	43802	SWIL_T1	0	0	0	0	0	0.05	0.03	1	1	0	600	600	0	0
6/13/2024 23:51	64904	MILL_T1	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
6/13/2024 23:52	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/13/2024 23:52	40502	CRES_T2	10	9	-1	0.23	0.18	-0.05	-0.79	-0.23	0	0	0	0	0	0
6/14/2024 0:27	51109	CARL_T1	0	0	0	0	0	0	-1.99	-2.01	1	1	0	1200	1200	0
6/14/2024 0:27	51101	CARL_T1	1	1	0	5.9	5.6	-0.3	0	0	0	0	0	0	0	0
6/14/2024 0:55	61701	ELIZ_T1	1	1	0	3.2	3.2	0	0.51	0.56	0	0	0	0	0	0
6/14/2024 2:15	64204	KINZ_T1	5	24	19	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
6/14/2024 2:15	64202	KINZ_T1	2	3	1	0.15	0.43	0.28	0.8	0.79	0	0	0	0	0	0
6/14/2024 2:15	64201	KINZ_T1	4	15	11	0.55	0.31	-0.24	0	0	0	0	0	0	0	0
6/14/2024 3:05	59202	THOM_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/14/2024 4:37	63201	MGTN_T2	0	0	0	0	0	0	1.13	1.12	1	1	0	600	600	0
6/14/2024 6:25	29402	BELT_T1	1	1	0	7.1	7.7	0.6	0	0	0	0	0	0	0	0
6/14/2024 6:25	16301	ALPA_T1	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
6/14/2024 6:25	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/14/2024 6:42	11103	EGYP_T1	0	0	0	0	0	0	0.37	0.4	0	0	0	0	0	0
6/14/2024 6:44	11103	EGYP_T1	0	0	0	0	0	0	0.37	0.4	0	0	0	0	0	0
6/14/2024 6:57	22002	BOHE_T1	1	0	-1	0.1	0	-0.1	0.34	0.38	0	0	0	0	0	0
6/14/2024 6:57	22001	BOHE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/14/2024 6:57	22003	BOHE_T1	22	9	-13	0.21	0.28	0.07	0	0	0	0	0	0	0	0
6/14/2024 7:02	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 7:03	15203	SFAR_T2	0	0	0	0	0	0	-1.11	-1.08	0	0	0	0	0	0
6/14/2024 7:04	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 7:06	15203	SFAR_T2	0	0	0	0	0	0	-1.08	-1.03	0	0	0	0	0	0
6/14/2024 7:07	22002	BOHE_T1	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
6/14/2024 7:07	15204	SFAR_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
6/14/2024 7:07	22003	BOHE_T1	9	5	-4	0.28	0.34	0.06	0	0	0	0	0	0	0	0
6/14/2024 7:08	58006	WCAR_T2	0	0	0	0	0	0	0.32	0.35	0	0	0	0	0	0
6/14/2024 7:09	15203	SFAR_T2	0	0	0	0	0	0	-1.08	-1.03	0	0	0	0	0	0
6/14/2024 7:10	54505	ENOL_T2	0	1	1	0	0.2	0.2	-1.26	-1.24	1	1	0	600	600	0
6/14/2024 7:10	67503	WEWI_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
6/14/2024 7:11	63305	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 7:11	63306	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 7:14	54505	ENOL_T2	0	1	1	0	0.2	0.2	-1.26	-1.24	1	1	0	600	600	0
6/14/2024 7:16	51204	MTON_T2	0	0	0	0	0	0	-0.32	-0.32	1	1	0	600	600	0
6/14/2024 7:18	12601	MACA_T1	0	0	0	0	0	0	0.86	0.88	0	0	0	0	0	0
6/14/2024 7:19	57106	SPHI_T2	3	3	0	1.6	1.57	-0.03	0	0	0	0	0	0	0	0
6/14/2024 7:19	57101	SPHI_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
6/14/2024 7:19	57103	SPHI_T2	0	0	0	0	0	0	-1.04	-0.86	0	0	0	0	0	0
6/14/2024 7:19	57104	SPHI_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
6/14/2024 7:20	51204	MTON_T2	0	0	0	0	0	0	-0.32	-0.32	1	1	0	600	600	0
6/14/2024 7:20	56501	ROCK_T2	3	4	1	3.43	2	-1.43	-1.15	-1.12	0	0	0	0	0	0
6/14/2024 7:20	15203	SFAR_T2	0	0	0	0	0	0	-1.08	-1.03	0	0	0	0	0	0
6/14/2024 7:22	20401	ASHF_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
6/14/2024 7:22	20403	ASHF_T2	0	0	0	0	0	0	0.66	0.7	0	0	0	0	0	0
6/14/2024 7:22	56501	ROCK_T2	3	4	1	3.43	2	-1.43	-2.25	-2.19	0	0	0	0	0	0
6/14/2024 7:23	57104	SPHI_T2	1	1	0	1.2	1.3	0.1	-1.84	-1.8	1	1	0	900	900	0
6/14/2024 7:23	22003	BOHE_T1	5	27	22	0.34	0.24	-0.1	0	0	0	0	0	0	0	0
6/14/2024 7:23	57106	SPHI_T2	3	3	0	1.6	1.57	-0.03	0	0	0	0	0	0	0	0
6/14/2024 7:23	57101	SPHI_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
6/14/2024 7:23	22002	BOHE_T1	0	1	1	0	0.2	0.2	0.4	0.41	0	0	0	0	0	0
6/14/2024 7:23	22001	BOHE_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
6/14/2024 7:33	56501	ROCK_T2	3	2	-1	2	4.75	2.75	-1.12	-1.1	0	0	0	0	0	0
6/14/2024 7:36	46504	LOHA_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
6/14/2024 7:36	46502	LOHA_T1	0	0	0	0	0	0	0.05	0.05	1	1	0	1200	1200	0
6/14/2024 7:38	20403	ASHF_T2	0	0	0	0	0	0	0.7	0.59	0	0	0	0	0	0
6/14/2024 7:38	20401	ASHF_T2	2	4	2	0.15	0.35	0.2	0	0	0	0	0	0	0	0
6/14/2024 7:39	20403	ASHF_T2	0	0	0	0	0	0	0.7	0.59	0	0	0	0	0	0
6/14/2024 7:39	67505	WEWI_T1	0	0	0	0	0	0	0.19	0.24	1	1	0	900	900	0
6/14/2024 7:39	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 7:39	15702	TANN_T2	0	0	0	0	0	0	-0.32	-0.3	0	0	0	0	0	0
6/14/2024 7:39	15703	TANN_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
6/14/2024 7:39	45501	DERR_T2	0	0	0	0	0	0	0.19	0.2	2	2	0	1800	1800	0
6/14/2024 7:39	20401	ASHF_T2	2	4	2	0.15	0.35	0.2	0	0	0	0	0	0	0	0
6/14/2024 7:41	20401	ASHF_T2	2	4	2	0.15	0.35	0.2	-0.13	-0.07	0	0	0	0	0	0
6/14/2024 7:42	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 7:42	62607	ENGL_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
6/14/2024 7:42	45501	DERR_T2	0	0	0	0	0	0	0.19	0.2	2	2	0	1800	1800	0
6/14/2024 7:42	62604	ENGL_T1	0	0	0	0	0	0	-1.16	-1.16	1	1	0	600	600	0
6/14/2024 7:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 7:45	62607	ENGL_T1	1	1	0	0.6	0	-0.6	-0.76	-0.72	1	1	0	300	300	0
6/14/2024 7:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 7:48	52004	LING_T2	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
6/14/2024 7:49	46101	MACI_T2	0	0	0	0	0	0	-0.67	-0.63	2	2	0	2400	2400	0
6/14/2024 7:50	15703	TANN_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
6/14/2024 7:50	15702	TANN_T2	0	0	0	0	0	0	-0.32	-0.3	0	0	0	0	0	0
6/14/2024 7:53	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	-1.33	-1.31	0	0	0	0	0	0
6/14/2024 7:54	29401	BELT_T1	0	26	26	0	0.15	0.15	0	0	1	1	0	900	900	0
6/14/2024 7:54	29402	BELT_T1	1	1	0	7.6	8.1	0.5	0	0	0	0	0	0	0	0
6/14/2024 7:57	29401	BELT_T1	0	26	26	0	0.15	0.15	0	0	0	0	0	0	0	0
6/14/2024 7:57	29402	BELT_T1	1	1	0	7.6	8.1	0.5	0	0	0	0	0	0	0	0
6/14/2024 8:00	46602	LACR_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
6/14/2024 8:01	64904	MILL_T1	0	0	0	0	0	0	0.02	-0.08	0	0	0	0	0	0
6/14/2024 8:07	67605	WARW_T1	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
6/14/2024 8:08	24801	VALM_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
6/14/2024 8:12	41502	FAIR_T2	0	0	0	0	0	0	-0.58	-0.57	0	0	0	0	0	0
6/14/2024 8:14	66302	MCGO_T2	1	2	1	0.1	0.1	0	-1.86	-1.71	1	1	0	600	600	0
6/14/2024 8:15	63804	HEMP_T1	1	1	0	6.3	6.1	-0.2	-1.51	-1.48	0	0	0	0	0	0
6/14/2024 8:16	66302	MCGO_T2	0	3	3	0	0.2	0.2	-1.86	-1.71	1	1	0	600	600	0
6/14/2024 8:16	40101	HUNT_T2	0	0	0	0	0	0	-0.51	-0.48	0	0	0	0	0	0
6/14/2024 8:16	58401	MORO_T1	0	0	0	0	0	0	-0.88	-0.86	1	1	0	600	600	0
6/14/2024 8:16	63501	HEID_TBK1-2	4	2	-2	0.43	0.9	0.47	-0.03	-0.02	1	1	0	900	900	0
6/14/2024 8:18	58401	MORO_T1	0	0	0	0	0	0	-0.88	-0.86	1	1	0	600	600	0
6/14/2024 8:18	42001	MNVL_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
6/14/2024 8:18	42002	MNVL_T2	1	2	1	2.7	2.8	0.1	0	0	0	0	0	0	0	0
6/14/2024 8:18	17002	RIRO_T2	1	27	26	0	0.2	0.2	0.83	0.82	0	0	0	0	0	0
6/14/2024 8:19	58402	MORO_T1	0	0	0	0	0	0	-0.86	-0.92	3	3	0	2400	2400	0
6/14/2024 8:21	43304	WATS_T2	0	0	0	0	0	0	0.85	0.25	0	0	0	0	0	0
6/14/2024 8:21	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/14/2024 8:24	51101	CARL_T1	1	1	0	6.7	6.4	-0.3	-0.69	-0.72	1	1	0	600	600	0
6/14/2024 8:25	56802	BENV_T2	2	5	3	0.55	0.42	-0.13	-1.11	-1.08	0	0	0	0	0	0
6/14/2024 8:26	56802	BENV_T2	2	5	3	0.55	0.42	-0.13	-2.23	-2.17	0	0	0	0	0	0
6/14/2024 8:27	56802	BENV_T2	2	5	3	0.55	0.42	-0.13	-1.11	-1.08	0	0	0	0	0	0
6/14/2024 8:28	23203	HIRU_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
6/14/2024 8:30	63501	HEID_TBK1-2	2	2	0	0.75	0.85	0.1	-0.02	0	1	1	0	900	900	0
6/14/2024 8:31	25402	LAHA_T2	0	0	0	0	0	0	-0.67	-0.64	0	0	0	0	0	0
6/14/2024 8:32	59003	MIFF_T1	1	1	0	0.5	0.2	-0.3	-0.1	0.03	0	0	0	0	0	0
6/14/2024 8:32	59002	MIFF_T1	5	2	-3	0.52	0.15	-0.37	0	0	0	0	0	0	0	0
6/14/2024 8:32	25402	LAHA_T2	0	0	0	0	0	0	-0.67	-0.64	0	0	0	0	0	0
6/14/2024 8:38	67605	WARW_T1	0	0	0	0	0	0	-0.94	-0.92	0	0	0	0	0	0
6/14/2024 8:40	46506	LOHA_T1	1	1	0	0.3	0.3	0	-0.33	-0.33	0	0	0	0	0	0
6/14/2024 8:40	10901	COOP_T2	0	0	0	0	0	0	0.21	0.21	1	1	0	1200	1200	0
6/14/2024 8:40	46504	LOHA_T1	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
6/14/2024 8:41	10805	OHHI_T2	4	5	1	2.58	2.7	0.12	-0.39	-0.48	1	1	0	600	600	0
6/14/2024 8:45	11507	FREE_T2	0	2	2	0	0	0	1.21	1.33	0	0	0	0	0	0
6/14/2024 8:46	63501	HEID_TBK1-2	2	2	0	0.85	0.6	-0.25	0	0.1	1	1	0	900	900	0
6/14/2024 8:51	67605	WARW_T1	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
6/14/2024 8:54	67605	WARW_T1	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
6/14/2024 8:57	63304	GREE_T1	0	0	0	0	0	0	-0.89	-1.04	0	0	0	0	0	0
6/14/2024 8:59	63304	GREE_T1	0	0	0	0	0	0	-0.89	-1.04	0	0	0	0	0	0
6/14/2024 9:01	52004	LING_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
6/14/2024 9:02	13503	MCMI_T2	1	1	0	0.1	0.4	0.3	0.02	0.02	0	0	0	0	0	0
6/14/2024 9:04	41902	REED_T1	0	0	0	0	0	0	1.29	1.36	0	0	0	0	0	0
6/14/2024 9:04	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 9:05	66504	SMAN_T2	0	0	0	0	0	0	-1.71	-1.78	2	2	0	2400	2400	0
6/14/2024 9:06	43802	SWIL_T1	0	1	1	0	0	0	-0.1	-0.1	1	1	0	600	600	0
6/14/2024 9:06	42002	MNVL_T2	1	1	0	2.9	3.2	0.3	0	0	0	0	0	0	0	0
6/14/2024 9:06	42001	MNVL_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
6/14/2024 9:06	41902	REED_T1	0	0	0	0	0	0	1.29	1.36	0	0	0	0	0	0
6/14/2024 9:06	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 9:06	43801	SWIL_T1	2	2	0	2.75	2.85	0.1	0	0	0	0	0	0	0	0
6/14/2024 9:08	66504	SMAN_T2	0	0	0	0	0	0	-0.89	-0.93	1	1	0	1200	1200	0
6/14/2024 9:12	63501	HEID_TBK1-2	1	1	0	0.5	0.7	0.2	0.04	-0.02	1	1	0	900	900	0
6/14/2024 9:12	10805	OHHI_T2	5	4	-1	2.26	4.9	2.64	-0.65	-0.44	1	1	0	600	600	0
6/14/2024 9:13	10805	OHHI_T2	5	4	-1	2.26	4.9	2.64	-1.3	-0.88	2	2	0	1200	1200	0
6/14/2024 9:16	42001	MNVL_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/14/2024 9:16	42002	MNVL_T2	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
6/14/2024 9:20	14802	TREI_T2	0	0	0	0	0	0	0.72	0.75	0	0	0	0	0	0
6/14/2024 9:20	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/14/2024 9:22	67203	TEHI_T1	3	1	-2	0.7	0	-0.7	1.92	1.92	4	4	0	3000	3000	0
6/14/2024 9:24	29402	BELT_T1	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
6/14/2024 9:24	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/14/2024 9:32	55002	NEWP_T1	6	5	-1	0.55	0.66	0.11	-0.11	-0.1	0	0	0	0	0	0
6/14/2024 9:32	48302	ORWI_T2	2	2	0	0.15	0.35	0.2	0.19	-0.38	0	0	0	0	0	0
6/14/2024 9:32	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/14/2024 9:33	43202	MVIL_T2	0	0	0	0	0	0	-0.58	-0.57	0	0	0	0	0	0
6/14/2024 9:35	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/14/2024 9:35	55002	NEWP_T1	6	5	-1	0.55	0.66	0.11	-0.32	-0.3	0	0	0	0	0	0
6/14/2024 9:37	56802	BENV_T2	6	11	5	0.33	0.39	0.06	-1.09	-1.05	0	0	0	0	0	0
6/14/2024 9:38	56802	BENV_T2	6	11	5	0.33	0.39	0.06	-1.09	-1.05	0	0	0	0	0	0
6/14/2024 9:39	56802	BENV_T2	6	11	5	0.33	0.39	0.06	-2.18	-2.1	0	0	0	0	0	0
6/14/2024 9:41	56802	BENV_T2	6	11	5	0.33	0.39	0.06	-1.09	-1.05	0	0	0	0	0	0
6/14/2024 9:42	56802	BENV_T2	6	11	5	0.33	0.39	0.06	-2.18	-2.1	0	0	0	0	0	0
6/14/2024 9:43	56802	BENV_T2	6	11	5	0.33	0.39	0.06	-1.09	-1.05	0	0	0	0	0	0
6/14/2024 9:50	56501	ROCK_T2	1	1	0	0.2	0.5	0.3	-0.89	-0.86	0	0	0	0	0	0
6/14/2024 9:51	56501	ROCK_T2	1	1	0	0.2	0.5	0.3	-1.78	-1.73	0	0	0	0	0	0
6/14/2024 9:52	24902	WHHA_T1	0	1	1	0	0	0	0.61	0.63	0	0	0	0	0	0
6/14/2024 9:53	56501	ROCK_T2	1	1	0	0.2	0.5	0.3	-0.86	-0.84	0	0	0	0	0	0
6/14/2024 9:53	24902	WHHA_T1	0	1	1	0	0	0	0.61	0.63	0	0	0	0	0	0
6/14/2024 9:55	58006	WCAR_T2	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
6/14/2024 9:56	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 9:56	46206	DANV_T2	27	41	14	0.53	0.73	0.2	3.18	3.19	1	1	0	1200	1200	0
6/14/2024 9:58	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 9:59	10801	CHHI_T1	3	2	-1	0.77	0.25	-0.52	-1.32	-1.31	3	3	0	2100	2100	0
6/14/2024 10:00	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 10:00	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/14/2024 10:00	40602	PIGR_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/14/2024 10:00	10602	BLGL_T2	10	35	25	1.16	0.98	-0.18	1.98	2.03	0	0	0	0	0	0
6/14/2024 10:00	16101	BING_T2	1	1	0	9.8	10	0.2	0.81	0.84	0	0	0	0	0	0
6/14/2024 10:00	64203	KINZ_T1	2	2	0	1.1	1.05	-0.05	0	0	0	0	0	0	0	0
6/14/2024 10:00	43802	SWIL_T1	0	0	0	0	0	0	-0.09	-0.08	1	1	0	600	600	0
6/14/2024 10:00	67502	WEWI_T2	0	0	0	0	0	0	-0.79	-0.74	1	1	0	900	900	0
6/14/2024 10:00	16103	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 10:00	64201	KINZ_T1	0	2	2	0	0	0	-0.28	-0.16	4	4	0	2100	2100	0
6/14/2024 10:00	46602	LAOR_T1	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
6/14/2024 10:00	17002	RIRO_T2	2	2	0	1.05	1.2	0.15	0.98	0.99	0	0	0	0	0	0
6/14/2024 10:00	43801	SWIL_T1	2	2	0	2.75	2.65	-0.1	0	0	0	0	0	0	0	0
6/14/2024 10:01	46102	MACI_T1	0	0	0	0	0	0	1.06	1.04	0	0	0	0	0	0
6/14/2024 10:02	63202	MGTN_T2	0	0	0	0	0	0	-0.77	-0.77	1	1	0	900	900	0
6/14/2024 10:03	46101	MACI_T2	0	0	0	0	0	0	-0.46	-0.49	2	2	0	2400	2400	0
6/14/2024 10:07	67503	WEWI_T2	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
6/14/2024 10:08	58001	WCAR_T1	3	4	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
6/14/2024 10:08	58003	WCAR_T1	2	1	-1	0.65	1.2	0.55	1.9	1.96	0	0	0	0	0	0
6/14/2024 10:08	66504	SMAN_T2	0	0	0	0	0	0	-1.24	-1.24	2	2	0	2400	2400	0
6/14/2024 10:09	10801	CHHI_T1	2	1	-1	0.25	0	-0.25	-1.31	-1.13	3	3	0	2100	2100	0
6/14/2024 10:09	29402	BELT_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
6/14/2024 10:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/14/2024 10:09	56802	BENV_T2	8	2	-6	0.36	0.5	0.14	-1.03	-1.02	0	0	0	0	0	0
6/14/2024 10:10	10805	CHHI_T2	10	41	31	0.56	0.93	0.37	-0.43	-0.21	2	2	0	1200	1200	0
6/14/2024 10:10	56802	BENV_T2	8	2	-6	0.36	0.5	0.14	-4.14	-4.08	0	0	0	0	0	0
6/14/2024 10:10	10801	CHHI_T1	2	1	-1	0.25	0	-0.25	-1.31	-1.13	3	3	0	2100	2100	0
6/14/2024 10:11	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 10:11	56803	BENV_T1	2	2	0	1.25	1	-0.25	0	0	0	0	0	0	0	0
6/14/2024 10:11	29402	BELT_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
6/14/2024 10:11	56801	BENV_T1	3	1	-2	0.47	0.3	-0.17	-0.51	-0.49	1	1	0	600	600	0
6/14/2024 10:11	58006	WCAR_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
6/14/2024 10:11	20403	ASHF_T2	0	0	0	0	0	0	0.8	0.83	0	0	0	0	0	0
6/14/2024 10:11	20401	ASHF_T2	1	2	1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
6/14/2024 10:11	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/14/2024 10:11	22003	BOHE_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/14/2024 10:11	10805	CHHI_T2	10	41	31	0.56	0.93	0.37	-0.21	-0.1	1	1	0	600	600	0
6/14/2024 10:12	56802	BENV_T2	8	2	-6	0.36	0.5	0.14	-1.03	-1.02	0	0	0	0	0	0
6/14/2024 10:12	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 10:13	52403	GRPA_T2	0	7	7	0	0.85	0.85	0	0	0	0	0	0	0	0
6/14/2024 10:13	52402	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/14/2024 10:13	52404	GRPA_T2	0	0	0	0	0	0	0.62	0.67	0	0	0	0	0	0
6/14/2024 10:14	52402	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/14/2024 10:14	52404	GRPA_T2	0	0	0	0	0	0	0.62	0.67	0	0	0	0	0	0
6/14/2024 10:14	52403	GRPA_T2	0	7	7	0	0.85	0.85	0	0	0	0	0	0	0	0
6/14/2024 10:15	64204	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/14/2024 10:15	64203	KINZ_T1	2	2	0	1.05	1.35	0.3	0.61	0.46	3	3	0	2100	2100	0
6/14/2024 10:15	64201	KINZ_T1	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
6/14/2024 10:18	43202	MVIL_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
6/14/2024 10:18	25503	MADI_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
6/14/2024 10:22	16101	BING_T2	1	0	0	10	9.6	-0.4	0	0	0	0	0	0	0	0
6/14/2024 10:22	16103	BING_T2	0	1	1	0	4	4	-1.42	-1.41	2	2	0	1500	1500	0
6/14/2024 10:23	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 10:23	16302	ALPA_T2	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
6/14/2024 10:23	10102	ALLE_T2	1	1	0	7.9	8.1	0.2	0	0	0	0	0	0	0	0
6/14/2024 10:24	16302	ALPA_T2	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
6/14/2024 10:24	16102	BING_T2	0	0	0	0	0	0	-0.15	-0.05	1	1	0	1200	1200	0
6/14/2024 10:24	16101	BING_T2	1	1	0	10	9.6	-0.4	0	0	0	0	0	0	0	0
6/14/2024 10:24	16103	BING_T2	0	1	1	0	4	4	0	0	0	0	0	0	0	0
6/14/2024 10:25	45502	DERR_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/14/2024 10:25	16302	ALPA_T2	0	0	0	0	0	0	0.4	0.45	0	0	0	0	0	0
6/14/2024 10:25	45501	DERR_T2	0	0	0	0	0	0	0.38	0.4	2	2	0	1800	1800	0
6/14/2024 10:26	16302	ALPA_T2	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
6/14/2024 10:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 10:28	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0.03	0.1	0	0	0	0	0	0
6/14/2024 10:28	55002	NEWP_T1	2	2	0	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
6/14/2024 10:29	45501	DERR_T2	0	0	0	0	0	0	0.38	0.4	2	2	0	1800	1800	0
6/14/2024 10:29	45502	DERR_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/14/2024 10:30	63501	HEID_TBK1-2	1	1	0	0.2	0.2	0	0.17	0.19	1	1	0	900	900	0
6/14/2024 10:35	48302	ORWI_T2	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
6/14/2024 10:36	67203	TEHI_T1	0	3	3	0	0.35	0.35	1.67	1.73	4	4	0	3000	3000	0
6/14/2024 10:36	67201	TEHI_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
6/14/2024 10:37	55101	WERT_T1	0	0	0	0	0	0	-1.59	-1.53	4	4	0	3300	3300	0
6/14/2024 10:37	55103	WERT_T1	1	1	0	4.6	4.4	-0.2	0	0	0	0	0	0	0	0
6/14/2024 10:38	43301	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/14/2024 10:38	43304	WATS_T2	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
6/14/2024 10:38	65402	MARI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/14/2024 10:38	55103	WERT_T1	1	1	0	4.6	4.4	-0.2	0	0	0	0	0	0	0	0
6/14/2024 10:38	55101	WERT_T1	0	0	0	0	0	0	-1.59	-1.53	4	4	0	3300	3300	0
6/14/2024 10:39	55101	WERT_T1	0	0	0	0	0	0	-1.59	-1.53	4	4	0	3300	3300	0
6/14/2024 10:39	55103	WERT_T1	1	1	0	4.6	4.4	-0.2	0	0	0	0	0	0	0	0
6/14/2024 10:41	55103	WERT_T1	1	1	0	4.6	4.4	-0.2	0	0	0	0	0	0	0	0
6/14/2024 10:41	55101	WERT_T1	0	0	0	0	0	0	-1.59	-1.53	4	4	0	3300	3300	0
6/14/2024 10:43	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 10:44	63804	HEMP_T1	0	0	0	0	0	0	-0.39	-0.37	1	1	0	900	900	0
6/14/2024 10:44	63804	HEMP_T1	1	1	0	6.5	6.2	-0.3	0	0	0	0	0	0	0	0
6/14/2024 10:45	52002	LING_T2	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
6/14/2024 10:46	53903	HALI_T2	2	2	0	1.25	1.35	0.1	0.01	0.02	0	0	0	0	0	0
6/14/2024 10:46	53902	HALI_T2	1	3	2	5.3	4.8	-0.5	0	0	0	0	0	0	0	0
6/14/2024 10:47	13606	RICH_T2	1	1	0	8.2	7.8	-0.4	1.25	0.47	0	0	0	0	0	0
6/14/2024 10:51	46506	LOHA_T1	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
6/14/2024 10:54	61102	BERK_T5	0	0	0	0	0	0	0.4	0.38	2	2	0	1200	1200	0
6/14/2024 10:54	60305	TWVA_T2	0	0	0	0	0	0	-1.24	-1.24	2	2	0	2400	2400	0
6/14/2024 10:54	58006	WCAR_T2	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
6/14/2024 10:56	61102	BERK_T5	0	0	0	0	0	0	0.4	0.38	2	2	0	1200	1200	0
6/14/2024 11:01	63804	HEMP_T1	1	1	0	6.5	6.7	0.2	0	0	0	0	0	0	0	0
6/14/2024 11:01	41801	GOCI_T2	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/14/2024 11:01	63802	HEMP_T1	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
6/14/2024 11:01	63305	GREE_T1	0	1	1	0	0.2	0.2	-1.63	-1.63	1	1	0	900	900	0
6/14/2024 11:01	63306	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/14/2024 11:01	63303	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/14/2024 11:02	60501	NMAN_T2	3	3	0	3.6	3.27	-0.33	0	0	0	0	0	0	0	0
6/14/2024 11:02	60502	NMAN_T2	0	0	0	0	0	0	0.55	0.64	0	0	0	0	0	0
6/14/2024 11:02	64101	REFR_T1	6	4	-2	0.6	0	-0.6	-0.18	-0.16	0	0	0	0	0	0
6/14/2024 11:03	64101	REFR_T1	6	4	-2	0.6	0	-0.6	-0.18	-0.16	0	0	0	0	0	0
6/14/2024 11:04	64101	REFR_T1	6	4	-2	0.6	0	-0.6	-0.18	-0.16	0	0	0	0	0	0
6/14/2024 11:04	13905	SEID_T1	0	0	0	0	0	0	-0.47	-0.46	1	1	0	1200	1200	0
6/14/2024 11:04	13903	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/14/2024 11:04	65001	NEFF_T2	0	0	0	0	0	0	0.21	0.43	1	1	0	1200	1200	0
6/14/2024 11:04	65003	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/14/2024 11:05	64101	REFR_T1	6	4	-2	0.6	0	-0.6	-0.37	-0.33	0	0	0	0	0	0
6/14/2024 11:06	60501	NMAN_T2	3	3	0	3.6	3.27	-0.33	0	0	0	0	0	0	0	0
6/14/2024 11:06	60502	NMAN_T2	0	0	0	0	0	0	0.64	0.73	0	0	0	0	0	0
6/14/2024 11:06	64101	REFR_T1	6	4	-2	0.6	0	-0.6	-0.16	-0.14	0	0	0	0	0	0
6/14/2024 11:07	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 11:07	43301	WATS_T2	1	2	1	0.3	0.7	0.4	-0.48	-0.47	1	1	0	900	900	0
6/14/2024 11:07	67605	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/14/2024 11:07	67603	WARW_T1	0	0	0	0	0	0	0.71	0.75	0	0	0	0	0	0
6/14/2024 11:07	66504	SMAN_T2	0	0	0	0	0	0	-0.56	-0.53	1	1	0	1200	1200	0
6/14/2024 11:07	64101	REFR_T1	6	4	-2	0.6	0	-0.6	-0.16	-0.14	0	0	0	0	0	0
6/14/2024 11:08	64101	REFR_T1	6	4	-2	0.6	0	-0.6	-0.33	-0.29	0	0	0	0	0	0
6/14/2024 11:13	45802	HEGI_T2	36	29	-7	0.4	0.39	-0.01	0.57	0.63	2	2	0	1200	1200	0
6/14/2024 11:14	23201	HIRU_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
6/14/2024 11:14	23203	HIRU_T2	0	2	2	0	0.1	0.1	0.15	0.15	0	0	0	0	0	0
6/14/2024 11:15	23203	HIRU_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 11:15	45802	HEGI_T2	17	31	14	0.38	0.45	0.07	0.57	0.63	2	2	0	1200	1200	0
6/14/2024 11:15	23201	HIRU_T2	0	7	7	0	0.16	0.16	0	0	0	0	0	0	0	0
6/14/2024 11:15	23202	HIRU_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
6/14/2024 11:17	13303	ORVI_T1	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
6/14/2024 11:19	64203	KINZ_T1	2	2	0	1.5	1.8	0.3	0.45	0.43	3	3	0	2100	2100	0
6/14/2024 11:19	65603	QVIL_T2	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
6/14/2024 11:19	56501	ROCK_T2	1	2	1	0.4	0.45	0.05	-0.73	-0.69	0	0	0	0	0	0
6/14/2024 11:19	64201	KINZ_T1	2	142	140	0.15	0.32	0.17	0	0	0	0	0	0	0	0
6/14/2024 11:21	67801	WLAN_T1	0	0	0	0	0	0	0.43	0.46	0	0	0	0	0	0
6/14/2024 11:21	67804	WLAN_T1	1	4	3	0.2	0.37	0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/14/2024 11:21	67903	WNHO_T1	0	0	0	0	0	0	1.1	1.1	1	1	0	1200	1200	0
6/14/2024 11:22	56501	ROCK_T2	1	2	1	0.4	0.45	0.05	-0.69	-0.66	0	0	0	0	0	0
6/14/2024 11:22	67602	WARW_T2	0	1	1	0	0	0	0.27	0.28	2	2	0	1500	1500	0
6/14/2024 11:23	14801	TREI_T2	0	1	1	0	0.2	0.2	0.95	0.97	0	0	0	0	0	0
6/14/2024 11:23	67602	WARW_T2	0	1	1	0	0	0	0.27	0.28	2	2	0	1500	1500	0
6/14/2024 11:23	67803	WLAN_T1	0	0	0	0	0	0	-1.03	-1.01	0	0	0	0	0	0
6/14/2024 11:23	67804	WLAN_T1	1	4	3	0.2	0.37	0.17	0	0	0	0	0	0	0	0
6/14/2024 11:25	43302	WATS_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/14/2024 11:25	43301	WATS_T2	2	1	-1	0.4	0.6	0.2	-0.47	-0.47	1	1	0	900	900	0
6/14/2024 11:26	63305	GREE_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/14/2024 11:26	43302	WATS_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/14/2024 11:26	43301	WATS_T2	2	1	-1	0.4	0.6	0.2	-0.47	-0.47	1	1	0	900	900	0
6/14/2024 11:26	63306	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/14/2024 11:26	63304	GREE_T1	0	0	0	0	0	0	-2.07	-2.08	0	0	0	0	0	0
6/14/2024 11:26	63303	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/14/2024 11:27	53902	HALI_T2	1	1	0	4.8	5.1	0.3	0	0	0	0	0	0	0	0
6/14/2024 11:27	53901	HALI_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
6/14/2024 11:27	53903	HALI_T2	2	2	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
6/14/2024 11:29	63305	GREE_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/14/2024 11:29	63303	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/14/2024 11:29	63306	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/14/2024 11:29	63304	GREE_T1	0	0	0	0	0	0	-2.07	-2.08	0	0	0	0	0	0
6/14/2024 11:32	45702	LIND_T2	1	1	0	1.2	1.3	0.1	-0.33	-0.32	0	0	0	0	0	0
6/14/2024 11:32	12807	MICK_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/14/2024 11:32	12801	MICK_T1	0	0	0	0	0	0	-0.33	-0.28	1	1	0	600	600	0
6/14/2024 11:32	40602	PIGR_T1	1	1	0	0.9	0.7	-0.2	-0.01	-0.01	0	0	0	0	0	0
6/14/2024 11:37	54601	SUMM_T2	0	0	0	0	0	0	-1.23	-1.21	2	2	0	2100	2100	0
6/14/2024 11:37	67602	WARW_T2	1	0	-1	0.2	0	-0.2	0.28	0.29	2	2	0	1500	1500	0
6/14/2024 11:37	24901	WHHA_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
6/14/2024 11:37	40602	PIGR_T1	1	1	0	0.9	0.7	-0.2	-0.01	-0.01	0	0	0	0	0	0
6/14/2024 11:38	60803	BUCK_T1	0	0	0	0	0	0	-1.85	-1.83	2	2	0	1200	1200	0
6/14/2024 11:38	67602	WARW_T2	1	0	-1	0.2	0	-0.2	0.28	0.29	2	2	0	1500	1500	0
6/14/2024 11:39	67602	WARW_T2	1	0	-1	0.2	0	-0.2	0.28	0.29	2	2	0	1500	1500	0
6/14/2024 11:41	60803	BUCK_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	600	600	0
6/14/2024 11:41	67602	WARW_T2	1	0	-1	0.2	0	-0.2	0.28	0.29	2	2	0	1500	1500	0
6/14/2024 11:42	67602	WARW_T2	1	0	-1	0.2	0	-0.2	0.28	0.29	2	2	0	1500	1500	0
6/14/2024 11:45	64203	KINZ_T1	2	6	4	2.5	1.65	-0.85	0.41	0.2	3	3	0	2100	2100	0
6/14/2024 11:45	64202	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/14/2024 11:45	64204	KINZ_T1	0	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0
6/14/2024 11:45	64201	KINZ_T1	138	41	-97	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/14/2024 11:47	52004	LING_T2	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
6/14/2024 11:47	52002	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 11:48	65901	SAKR_T2	1	1	0	5.8	5.6	-0.2	-0.2	-0.26	2	2	0	1500	1500	0
6/14/2024 11:49	56501	ROCK_T2	2	3	1	0.6	0.2	-0.4	-0.66	-0.63	0	0	0	0	0	0
6/14/2024 11:51	40602	PIGR_T1	1	0	0	0.7	0.8	0.1	-0.01	-0.01	0	0	0	0	0	0
6/14/2024 11:51	56501	ROCK_T2	2	3	1	0.6	0.2	-0.4	-0.66	-0.63	0	0	0	0	0	0
6/14/2024 11:52	67804	WLAN_T1	4	6	2	0.43	0.25	-0.18	0	0	0	0	0	0	0	0
6/14/2024 11:52	56501	ROCK_T2	2	3	1	0.6	0.2	-0.4	-0.63	-0.59	0	0	0	0	0	0
6/14/2024 11:52	67801	WLAN_T1	0	1	1	0	0.1	0.1	0.48	0.5	0	0	0	0	0	0
6/14/2024 11:53	56501	ROCK_T2	2	3	1	0.6	0.2	-0.4	-0.63	-0.59	0	0	0	0	0	0
6/14/2024 11:53	60301	TWVA_T2	0	0	0	0	0	0	-2.27	-2.27	3	3	0	2700	2700	0
6/14/2024 11:54	29402	BELT_T1	1	1	0	7.7	9.3	1.6	0	0	0	0	0	0	0	0
6/14/2024 11:54	56501	ROCK_T2	2	3	1	0.6	0.2	-0.4	-0.63	-0.59	0	0	0	0	0	0
6/14/2024 11:54	29401	BELT_T1	11	0	-11	0.12	0	-0.12	0	0	0	0	0	0	0	0
6/14/2024 11:55	67502	WEWI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/14/2024 11:55	67503	WEWI_T2	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
6/14/2024 11:55	10801	OHHI_T1	1	1	0	1.5	0	-1.5	-1.31	-1.32	3	3	0	2100	2100	0
6/14/2024 11:56	67804	WLAN_T1	4	6	2	0.43	0.25	-0.18	0	0	0	0	0	0	0	0
6/14/2024 11:56	67503	WEWI_T2	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
6/14/2024 11:56	67801	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 11:56	55002	NEWP_T1	2	2	0	0.45	0.3	-0.15	-0.08	-0.06	0	0	0	0	0	0
6/14/2024 11:56	67803	WLAN_T1	0	0	0	0	0	0	-0.98	-0.96	0	0	0	0	0	0
6/14/2024 11:56	67502	WEWI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/14/2024 11:57	56802	BENV_T2	1	1	0	0.4	0.5	0.1	-0.93	-0.91	0	0	0	0	0	0
6/14/2024 11:58	46206	DANV_T2	10	19	9	0.41	0.66	0.25	3.22	3.23	1	1	0	1200	1200	0
6/14/2024 11:58	53903	HALI_T2	2	3	1	1	0.9	-0.1	0.06	0.07	0	0	0	0	0	0
6/14/2024 11:58	53902	HALI_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
6/14/2024 11:59	53902	HALI_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
6/14/2024 11:59	55002	NEWP_T1	2	2	0	0.45	0.3	-0.15	-0.03	-0.02	0	0	0	0	0	0
6/14/2024 11:59	53903	HALI_T2	2	3	1	1	0.9	-0.1	0.12	0.14	0	0	0	0	0	0
6/14/2024 12:00	64201	KINZ_T1	39	88	49	0.34	0.45	0.11	0	0	0	0	0	0	0	0
6/14/2024 12:00	52402	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 12:00	64203	KINZ_T1	2	6	4	1.65	1.53	-0.12	0.2	0.26	3	3	0	2100	2100	0
6/14/2024 12:00	52403	GRPA_T2	3	3	0	0.53	1.3	0.77	-0.18	-0.18	0	0	0	0	0	0
6/14/2024 12:00	64204	KINZ_T1	1	1	0	5.9	0	-5.9	0	0	0	0	0	0	0	0
6/14/2024 12:00	64202	KINZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/14/2024 12:01	63401	HONY_T1	0	0	0	0	0	0	0.76	1.05	2	2	0	1200	1200	0
6/14/2024 12:02	59001	MIFF_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
6/14/2024 12:02	59002	MIFF_T1	5	5	0	0.62	0.7	0.08	0	0	0	0	0	0	0	0
6/14/2024 12:02	59003	MIFF_T1	1	1	0	0.9	1	0.1	-0.91	-0.9	0	0	0	0	0	0
6/14/2024 12:02	63401	HONY_T1	0	0	0	0	0	0	0.38	0.52	1	1	0	600	600	0
6/14/2024 12:03	57601	RUTH_T2	0	0	0	0	0	0	-1.83	-1.75	1	1	0	900	900	0
6/14/2024 12:04	65604	QVIL_T2	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
6/14/2024 12:09	51109	CARL_T1	0	0	0	0	0	0	-1.8	-1.79	1	1	0	1200	1200	0
6/14/2024 12:09	46206	DANV_T2	18	11	-7	0.69	1.07	0.38	3.23	3.23	1	1	0	1200	1200	0
6/14/2024 12:09	51101	CARL_T1	1	1	0	7.7	7.5	-0.2	0	0	0	0	0	0	0	0
6/14/2024 12:10	46206	DANV_T2	18	11	-7	0.69	1.07	0.38	3.23	3.23	1	1	0	1200	1200	0
6/14/2024 12:10	55003	NEWP_T2	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
6/14/2024 12:11	46206	DANV_T2	18	11	-7	0.69	1.07	0.38	3.23	3.23	1	1	0	1200	1200	0
6/14/2024 12:11	10805	OHHI_T2	34	40	6	0.8	0.86	0.06	-0.25	-0.28	1	1	0	600	600	0
6/14/2024 12:12	46206	DANV_T2	18	11	-7	0.69	1.07	0.38	3.23	3.23	1	1	0	1200	1200	0
6/14/2024 12:13	45502	DERR_T2	0	2	2	0	0	0	0.32	0.29	0	0	0	0	0	0
6/14/2024 12:13	47001	HUGH_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
6/14/2024 12:14	46206	DANV_T2	18	11	-7	0.69	1.07	0.38	3.23	3.23	1	1	0	1200	1200	0
6/14/2024 12:16	47001	HUGH_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
6/14/2024 12:17	63401	HONY_T1	0	0	0	0	0	0	0.52	0.65	1	1	0	600	600	0
6/14/2024 12:17	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.2	2	2	0	1200	1200	0
6/14/2024 12:19	67201	TEHI_T1	0	1	1	0	0	0	-0.06	-0.2	2	2	0	1500	1500	0
6/14/2024 12:19	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.2	2	2	0	1200	1200	0
6/14/2024 12:19	67203	TEHI_T1	2	13	11	0.5	0.9	0.4	0	0	0	0	0	0	0	0
6/14/2024 12:22	67605	WARW_T1	0	0	0	0	0	0	-1.02	-1	0	0	0	0	0	0
6/14/2024 12:27	29402	BELT_T1	1	1	0	9.2	9.3	0.1	0	0	0	0	0	0	0	0
6/14/2024 12:27	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 12:28	63401	HONY_T1	0	0	0	0	0	0	0.65	0.74	1	1	0	600	600	0
6/14/2024 12:29	50105	HARR_T3	6	6	0	6.47	6.45	-0.02	0	0	0	0	0	0	0	0
6/14/2024 12:29	50107	HARR_T3	1	1	0	7.3	7.5	0.2	0	0	0	0	0	0	0	0
6/14/2024 12:29	50201	HARR_T3	0	0	0	0	0	0	-0.43	-0.42	1	1	0	1200	1200	0
6/14/2024 12:30	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/14/2024 12:31	50107	HARR_T3	1	1	0	7.5	7.9	0.4	0	0	0	0	0	0	0	0
6/14/2024 12:31	50202	HARR_T3	0	0	0	0	0	0	-1.26	-1.25	0	0	0	0	0	0
6/14/2024 12:31	14404	SSLA_T1	1	1	0	4.7	4.7	0	0.19	0.18	0	0	0	0	0	0
6/14/2024 12:31	50105	HARR_T3	6	6	0	6.45	6.43	-0.02	0	0	0	0	0	0	0	0
6/14/2024 12:32	23403	HONE_T1	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
6/14/2024 12:32	43202	MVIL_T2	19	21	2	0.22	0.19	-0.03	-1.06	-1.05	0	0	0	0	0	0
6/14/2024 12:33	14404	SSLA_T1	1	1	0	4.7	4.7	0	0.19	0.18	0	0	0	0	0	0
6/14/2024 12:34	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 12:34	56504	ROCK_T2	0	0	0	0	0	0	-0.76	-0.74	0	0	0	0	0	0
6/14/2024 12:34	65603	QVIL_T2	0	0	0	0	0	0	-0.85	-0.77	0	0	0	0	0	0
6/14/2024 12:34	56501	ROCK_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/14/2024 12:35	54203	PENN_T1	5	5	0	0.48	0.48	0	0	0	0	0	0	0	0	0
6/14/2024 12:35	56504	ROCK_T2	0	0	0	0	0	0	-0.76	-0.74	0	0	0	0	0	0
6/14/2024 12:35	56501	ROCK_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/14/2024 12:35	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 12:35	54201	PENN_T1	11	8	-3	0.41	0.56	0.15	-1.56	-1.59	0	0	0	0	0	0
6/14/2024 12:36	43301	WATS_T2	0	0	0	0	0	0	-0.45	-0.45	1	0	-1	900	0	-900
6/14/2024 12:37	54203	PENN_T1	5	5	0	0.48	0.48	0	0	0	0	0	0	0	0	0
6/14/2024 12:37	54201	PENN_T1	11	8	-3	0.41	0.56	0.15	-1.59	-1.53	0	0	0	0	0	0
6/14/2024 12:39	58003	WCAR_T1	1	3	2	1.3	0.87	-0.43	0	0	0	0	0	0	0	0
6/14/2024 12:39	58001	WCAR_T1	0	1	1	0	0.1	0.1	1.28	1.28	0	0	0	0	0	0
6/14/2024 12:40	60803	BUCK_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	600	600	0
6/14/2024 12:41	53501	EVIL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
6/14/2024 12:41	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/14/2024 12:41	62601	ENGL_T1	0	0	0	0	0	0	-1.24	-1.19	0	0	0	0	0	0
6/14/2024 12:41	62607	ENGL_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/14/2024 12:41	40801	EXCH_T2	4	3	-1	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
6/14/2024 12:41	53502	EVIL_T2	0	0	0	0	0	0	-0.06	-0.06	2	2	0	1200	1200	0
6/14/2024 12:41	40802	EXCH_T2	6	2	-4	0.28	0.3	0.02	-0.19	-0.05	0	0	0	0	0	0
6/14/2024 12:41	20401	ASHF_T2	2	1	-1	0.2	0.1	-0.1	0.28	0.27	0	0	0	0	0	0
6/14/2024 12:42	40802	EXCH_T2	6	2	-4	0.28	0.3	0.02	-0.19	-0.05	0	0	0	0	0	0
6/14/2024 12:42	54505	ENOL_T2	0	0	0	0	0	0	-0.76	-0.74	1	1	0	600	600	0
6/14/2024 12:42	40801	EXCH_T2	4	3	-1	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
6/14/2024 12:43	40801	EXCH_T2	4	3	-1	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
6/14/2024 12:43	40802	EXCH_T2	6	2	-4	0.28	0.3	0.02	-0.19	-0.05	0	0	0	0	0	0
6/14/2024 12:44	54505	ENOL_T2	0	0	0	0	0	0	-0.76	-0.74	1	1	0	600	600	0
6/14/2024 12:44	40801	EXCH_T2	4	3	-1	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
6/14/2024 12:44	45802	HEGI_T2	13	37	24	0.27	0.59	0.32	0.51	0.49	2	2	0	1200	1200	0
6/14/2024 12:44	40802	EXCH_T2	6	2	-4	0.28	0.3	0.02	-0.19	-0.05	0	0	0	0	0	0
6/14/2024 12:45	54505	ENOL_T2	0	0	0	0	0	0	-0.76	-0.74	1	1	0	600	600	0
6/14/2024 12:47	40601	PIGR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/14/2024 12:47	40602	PIGR_T1	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/14/2024 12:47	45802	HEGI_T2	37	17	-20	0.59	0.37	-0.22	0.51	0.49	2	2	0	1200	1200	0
6/14/2024 12:50	40601	PIGR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/14/2024 12:50	66505	SMAN_T2	1	2	1	0.4	0.2	-0.2	0.53	0.49	4	4	0	2300	2300	0
6/14/2024 12:50	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 12:50	40603	PIGR_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/14/2024 12:51	40601	PIGR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/14/2024 12:51	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 12:53	49803	UNIV_T1	0	0	0	0	0	0	-0.58	-0.62	0	0	0	0	0	0
6/14/2024 12:54	29402	BELT_T1	1	3	2	9.3	3.2	-6.1	0	0	0	0	0	0	0	0
6/14/2024 12:54	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 12:55	66505	SMAN_T2	1	2	1	0.4	0.2	-0.2	0.49	0.58	4	4	0	2300	2300	0
6/14/2024 12:58	51104	CARL_T1	1	1	0	5.8	0	-5.8	0	0	0	0	0	0	0	0
6/14/2024 12:58	40802	EXCH_T2	2	2	0	0.15	0.5	0.35	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/14/2024 12:58	40801	EXCH_T2	3	3	0	0.3	0.27	-0.03	0	-0.01	1	1	0	1200	1200	0
6/14/2024 12:58	51101	CARL_T1	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
6/14/2024 12:58	51107	CARL_T1	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
6/14/2024 12:59	52002	LING_T2	0	4	4	0	0	0	0.78	0.81	0	0	0	0	0	0
6/14/2024 13:00	20601	GRWO_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
6/14/2024 13:00	52002	LING_T2	2	16	14	0.2	0.1	-0.1	0.78	0.81	0	0	0	0	0	0
6/14/2024 13:00	20603	GRWO_T2	0	2	2	0	0.2	0.2	-0.51	-0.52	1	1	0	900	900	0
6/14/2024 13:02	43202	MVIL_T2	12	6	-6	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
6/14/2024 13:02	65004	NEFF_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	600	600	0
6/14/2024 13:02	43201	MVIL_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
6/14/2024 13:02	65003	NEFF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/14/2024 13:04	52002	LING_T2	2	16	14	0.2	0.1	-0.1	0.78	0.81	0	0	0	0	0	0
6/14/2024 13:07	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 13:09	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 13:10	10103	ALLE_T3	1	5	4	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/14/2024 13:10	10205	ALLE_T3	2	2	0	1.2	0.2	-1	0	0	0	0	0	0	0	0
6/14/2024 13:10	62102	ELAN_T1	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
6/14/2024 13:10	51302	WIND_T2	0	0	0	0	0	0	0.04	0.08	0	0	0	0	0	0
6/14/2024 13:10	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 13:10	10101	ALLE_T3	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/14/2024 13:10	62101	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 13:10	10105	ALLE_T3	16	15	-1	0.76	0.6	-0.16	0	0	0	0	0	0	0	0
6/14/2024 13:14	10205	ALLE_T3	2	2	0	1.2	0.2	-1	0	0	0	0	0	0	0	0
6/14/2024 13:14	10105	ALLE_T3	16	15	-1	0.76	0.6	-0.16	0	0	0	0	0	0	0	0
6/14/2024 13:14	10103	ALLE_T3	1	5	4	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/14/2024 13:14	10101	ALLE_T3	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/14/2024 13:14	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 13:15	62102	ELAN_T1	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
6/14/2024 13:15	54504	ENOL_T2	0	0	0	0	0	0	-2.57	-2.48	1	1	0	600	600	0
6/14/2024 13:15	62101	ELAN_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
6/14/2024 13:16	52004	LING_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
6/14/2024 13:16	52002	LING_T2	2	16	14	0.1	0.44	0.34	0	0	0	0	0	0	0	0
6/14/2024 13:23	54602	SUMM_T2	0	0	0	0	0	0	-1.83	-1.83	1	1	0	600	600	0
6/14/2024 13:23	54601	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 13:24	61103	BERK_T5	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
6/14/2024 13:25	20403	ASHF_T2	0	0	0	0	0	0	1.27	1.1	0	0	0	0	0	0
6/14/2024 13:25	51603	DUKE_T1	0	0	0	0	0	0	0.45	0.49	0	0	0	0	0	0
6/14/2024 13:25	20401	ASHF_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/14/2024 13:27	52402	GRPA_T2	6	3	-3	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/14/2024 13:27	52403	GRPA_T2	4	21	17	1.9	0.99	-0.91	-0.06	-0.4	0	0	0	0	0	0
6/14/2024 13:27	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 13:28	51604	DUKE_T2	1	1	0	0.1	0.1	0	-0.75	-0.74	1	1	0	900	900	0
6/14/2024 13:29	64701	LITI_T1	0	0	0	0	0	0	-0.03	0.08	1	1	0	900	900	0
6/14/2024 13:31	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 13:31	52403	GRPA_T2	19	7	-12	0.95	0.2	-0.75	-0.06	-0.4	0	0	0	0	0	0
6/14/2024 13:31	65401	MARI_T1	8	7	-1	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
6/14/2024 13:31	64203	KINZ_T1	2	2	0	1.8	0.95	-0.85	0.6	0.48	3	3	0	2100	2100	0
6/14/2024 13:31	64204	KINZ_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
6/14/2024 13:31	64201	KINZ_T1	1	0	-1	2.3	0	-2.3	0	0	0	0	0	0	0	0
6/14/2024 13:31	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/14/2024 13:31	52402	GRPA_T2	3	0	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
6/14/2024 13:32	65401	MARI_T1	8	7	-1	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
6/14/2024 13:32	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 13:32	65205	PRIN_T1	1	1	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
6/14/2024 13:33	65401	MARI_T1	8	7	-1	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
6/14/2024 13:33	52002	LING_T2	16	8	-8	0.28	0	-0.28	1.67	1.75	0	0	0	0	0	0
6/14/2024 13:33	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 13:36	67602	WARW_T2	0	1	1	0	0.2	0.2	0.32	0.27	2	2	0	1500	1500	0
6/14/2024 13:36	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 13:36	65401	MARI_T1	8	7	-1	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
6/14/2024 13:37	67605	WARW_T1	1	0	-1	0.4	0	-0.4	-1.71	-1.94	0	0	0	0	0	0
6/14/2024 13:37	67602	WARW_T2	0	1	1	0	0.2	0.2	0.64	0.53	4	4	0	3000	3000	0
6/14/2024 13:37	67103	SPRI_T1	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
6/14/2024 13:38	61304	EARL_T1	0	0	0	0	0	0	-1	-0.99	2	2	0	1200	1200	0
6/14/2024 13:38	61303	EARL_T1	1	2	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/14/2024 13:39	61303	EARL_T1	1	2	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/14/2024 13:39	61304	EARL_T1	0	0	0	0	0	0	-1	-0.99	2	2	0	1200	1200	0
6/14/2024 13:39	67605	WARW_T1	1	0	-1	0.4	0	-0.4	-1.71	-1.94	0	0	0	0	0	0
6/14/2024 13:39	67804	WLAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/14/2024 13:39	67805	WLAN_T1	0	0	0	0	0	0	-0.31	-0.26	0	0	0	0	0	0
6/14/2024 13:40	67605	WARW_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/14/2024 13:40	20401	ASHF_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
6/14/2024 13:40	67603	WARW_T1	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
6/14/2024 13:40	10805	CHHI_T2	35	23	-12	0.65	0.42	-0.23	-0.03	-0.19	1	1	0	600	600	0
6/14/2024 13:40	20403	ASHF_T2	0	0	0	0	0	0	1.1	1.18	0	0	0	0	0	0
6/14/2024 13:44	10805	CHHI_T2	35	23	-12	0.65	0.42	-0.23	-0.03	-0.19	1	1	0	600	600	0
6/14/2024 13:49	46101	MACI_T2	0	80	80	0	0.14	0.14	0.38	0.04	1	1	0	1200	1200	0
6/14/2024 13:52	67504	WEWI_T1	0	0	0	0	0	0	-0.28	-0.29	1	1	0	900	900	0
6/14/2024 13:53	67504	WEWI_T1	0	0	0	0	0	0	-0.28	-0.29	1	1	0	900	900	0
6/14/2024 13:54	57004	WHIH_T2	0	0	0	0	0	0	0.17	0.24	0	0	0	0	0	0
6/14/2024 13:55	67505	WEWI_T1	0	0	0	0	0	0	0.83	0.92	1	1	0	900	900	0
6/14/2024 13:56	55103	WERT_T1	1	1	0	8.2	4.7	-3.5	0	0	0	0	0	0	0	0
6/14/2024 13:56	55101	WERT_T1	0	2	2	0	0.15	0.15	-1.84	-1.83	4	4	0	3300	3300	0
6/14/2024 13:57	62602	ENGL_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
6/14/2024 13:57	62605	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 13:57	67503	WEWI_T2	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
6/14/2024 13:57	62607	ENGL_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/14/2024 13:58	62605	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 13:58	62606	ENGL_T1	0	0	0	0	0	0	-1.06	-1.02	2	2	0	1500	1500	0
6/14/2024 13:58	62607	ENGL_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/14/2024 14:00	52403	GRPA_T2	3	4	1	0.17	0	-0.17	-0.39	-0.06	0	0	0	0	0	0
6/14/2024 14:02	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 14:02	65401	MARI_T1	4	13	9	0.28	1.22	0.94	0	0	0	0	0	0	0	0
6/14/2024 14:03	52004	LING_T2	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
6/14/2024 14:04	65401	MARI_T1	4	13	9	0.28	1.22	0.94	0	0	0	0	0	0	0	0
6/14/2024 14:04	64802	MONE_T2	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
6/14/2024 14:04	65501	MOJO_T1	0	0	0	0	0	0	-0.43	-0.59	1	1	0	900	900	0
6/14/2024 14:04	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 14:05	64802	MONE_T2	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
6/14/2024 14:08	61102	BERK_T5	0	0	0	0	0	0	1.69	1.11	6	6	0	3600	3600	0
6/14/2024 14:09	66505	SMAN_T2	1	1	0	1	0	-1	0.34	0.25	4	4	0	2300	2300	0
6/14/2024 14:10	66702	STRA_T1	0	0	0	0	0	0	-0.2	-0.21	2	2	0	1500	1500	0
6/14/2024 14:10	61102	BERK_T5	0	0	0	0	0	0	1.13	0.74	4	4	0	2400	2400	0
6/14/2024 14:10	24603	VARD_T2	22	22	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/14/2024 14:10	24602	VARD_T2	401	440	39	0.53	0.55	0.02	-0.62	-0.62	0	0	0	0	0	0
6/14/2024 14:11	61102	BERK_T5	0	0	0	0	0	0	0.56	0.37	2	2	0	1200	1200	0
6/14/2024 14:20	66901	SHIL_T2	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
6/14/2024 14:20	66902	SHIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/14/2024 14:21	15702	TANN_T2	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
6/14/2024 14:21	15703	TANN_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
6/14/2024 14:22	15703	TANN_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
6/14/2024 14:22	15702	TANN_T2	0	0	0	0	0	0	-0.12	-0.1	0	0	0	0	0	0
6/14/2024 14:22	67605	WARW_T1	1	0	-1	0.3	0	-0.3	-0.9	-0.91	0	0	0	0	0	0
6/14/2024 14:26	61701	ELIZ_T1	1	1	0	1.5	1.4	-0.1	1.09	1.15	0	0	0	0	0	0
6/14/2024 14:26	42503	ALTA_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
6/14/2024 14:27	46203	DANV_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
6/14/2024 14:27	10805	CHHI_T2	3	6	3	3.6	5.25	1.65	-0.16	-0.28	1	1	0	600	600	0
6/14/2024 14:27	46206	DANV_T2	9	4	-5	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
6/14/2024 14:28	61701	ELIZ_T1	1	1	0	1.5	1.4	-0.1	1.09	1.15	0	0	0	0	0	0
6/14/2024 14:28	29402	BELT_T1	17	28	11	0.73	0.62	-0.11	0	0	0	0	0	0	0	0
6/14/2024 14:28	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 14:28	63401	HONY_T1	0	0	0	0	0	0	0.62	0.51	1	1	0	600	600	0
6/14/2024 14:31	63402	HONY_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/14/2024 14:31	63403	HONY_T2	0	0	0	0	0	0	-1.58	-1.56	1	1	0	600	600	0
6/14/2024 14:32	58401	MORO_T1	0	0	0	0	0	0	-1.12	-1.11	2	2	0	1200	1200	0
6/14/2024 14:32	58402	MORO_T1	0	0	0	0	0	0	-0.57	-0.58	3	3	0	2400	2400	0
6/14/2024 14:35	51003	NHAR_T1	0	0	0	0	0	0	-1.31	-1.24	1	1	0	1200	1200	0
6/14/2024 14:35	51004	NHAR_T1	1	1	0	6.7	6.5	-0.2	0	0	0	0	0	0	0	0
6/14/2024 14:35	51002	NHAR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/14/2024 14:37	42201	SHEN_T2	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
6/14/2024 14:39	29402	BELT_T1	24	26	2	0.69	0.62	-0.07	0	0	0	0	0	0	0	0
6/14/2024 14:39	58006	WCAR_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
6/14/2024 14:39	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 14:39	20401	ASHF_T2	4	4	0	0.25	0.13	-0.12	0	0	0	0	0	0	0	0
6/14/2024 14:39	20403	ASHF_T2	0	0	0	0	0	0	1.15	0.87	0	0	0	0	0	0
6/14/2024 14:40	58006	WCAR_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
6/14/2024 14:44	63401	HONY_T1	0	0	0	0	0	0	0.51	0.55	1	1	0	600	600	0
6/14/2024 14:52	42201	SHEN_T2	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
6/14/2024 14:53	10801	CHHI_T1	0	2	2	0	0.3	0.3	-1.41	-1.41	3	3	0	2100	2100	0
6/14/2024 14:53	42201	SHEN_T2	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
6/14/2024 14:55	61701	ELIZ_T1	1	1	0	1	1.8	0.8	1.11	1.11	0	0	0	0	0	0
6/14/2024 14:55	58006	WCAR_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
6/14/2024 14:57	61701	ELIZ_T1	1	1	0	1	1.8	0.8	1.11	1.11	0	0	0	0	0	0
6/14/2024 14:58	24105	EHAZ_T1	4	4	0	5.58	5.43	-0.15	0	0	0	0	0	0	0	0
6/14/2024 14:58	24102	EHAZ_T1	1	0	-1	0.2	0	-0.2	0.09	0.07	0	0	0	0	0	0
6/14/2024 14:59	61701	ELIZ_T1	1	1	0	1	1.8	0.8	1.11	1.11	0	0	0	0	0	0
6/14/2024 15:00	63401	HONY_T1	0	0	0	0	0	0	0.55	0.48	1	1	0	600	600	0
6/14/2024 15:12	24702	FLND_T2	0	3	3	0	0.2	0.2	0.36	0.22	1	1	0	1200	1200	0
6/14/2024 15:19	42201	SHEN_T2	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
6/14/2024 15:23	24902	WHHA_T1	1	0	-1	0.1	0	-0.1	0.66	0.65	0	0	0	0	0	0
6/14/2024 15:23	24901	WHHA_T1	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
6/14/2024 15:24	24902	WHHA_T1	1	0	-1	0.1	0	-0.1	0.66	0.65	0	0	0	0	0	0
6/14/2024 15:27	40504	CRES_T1	0	0	0	0	0	0	-1.3	-1.32	0	0	0	0	0	0
6/14/2024 15:27	40505	CRES_T1	3	3	0	3.83	3.83	0	0	0	0	0	0	0	0	0
6/14/2024 15:32	58003	WCAR_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
6/14/2024 15:32	58001	WCAR_T1	0	0	0	0	0	0	1.36	1.34	0	0	0	0	0	0
6/14/2024 15:36	56501	ROCK_T2	1	0	-1	0.4	0	-0.4	-0.54	-0.45	0	0	0	0	0	0
6/14/2024 15:40	57104	SPHI_T2	1	1	0	1.5	1.5	0	-0.9	-0.93	1	1	0	900	900	0
6/14/2024 15:40	57106	SPHI_T2	3	3	0	0.43	0.87	0.44	0	0	0	0	0	0	0	0
6/14/2024 15:42	22002	BOHE_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
6/14/2024 15:42	22003	BOHE_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/14/2024 15:45	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/14/2024 15:45	52403	GRPA_T2	3	2	-1	0.57	0.45	-0.12	-0.11	-0.42	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/14/2024 15:45	52401	GRPA_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/14/2024 15:45	52402	GRPA_T2	1	3	2	0.1	0.47	0.37	0	0	0	0	0	0	0	0
6/14/2024 15:47	16902	MECK_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
6/14/2024 15:49	16902	MECK_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
6/14/2024 15:50	16902	MECK_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
6/14/2024 15:53	58006	WCAR_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
6/14/2024 15:53	45602	WOOL_T1	0	11	11	0	0.29	0.29	0.77	0.77	0	0	0	0	0	0
6/14/2024 15:54	45602	WOOL_T1	0	11	11	0	0.29	0.29	0.77	0.77	0	0	0	0	0	0
6/14/2024 15:55	45602	WOOL_T1	0	11	11	0	0.29	0.29	0.77	0.77	0	0	0	0	0	0
6/14/2024 15:55	61304	EARL_T1	0	0	0	0	0	0	-0.54	-0.57	1	1	0	600	600	0
6/14/2024 15:58	29402	BELT_T1	1	1	0	0	9.2	0.2	0	0	0	0	0	0	0	0
6/14/2024 15:58	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 16:00	61701	ELIZ_T1	1	1	0	2.3	2.8	0.5	1.2	1.01	0	0	0	0	0	0
6/14/2024 16:05	13604	RICH_T2	0	0	0	0	0	0	-1.99	-2.13	3	3	0	2100	2100	0
6/14/2024 16:05	13606	RICH_T2	3	5	2	3.1	8.7	5.6	0	0	0	0	0	0	0	0
6/14/2024 16:10	57103	SPHI_T2	0	0	0	0	0	0	-2.25	-2.19	1	1	0	600	600	0
6/14/2024 16:10	57104	SPHI_T2	1	1	0	1.6	2	0.4	0	0	0	0	0	0	0	0
6/14/2024 16:10	57106	SPHI_T2	3	3	0	0.87	1.23	0.36	0	0	0	0	0	0	0	0
6/14/2024 16:11	61304	EARL_T1	0	0	0	0	0	0	-0.57	-0.59	1	1	0	600	600	0
6/14/2024 16:17	64902	MILL_T2	0	0	0	0	0	0	-0.55	-0.57	1	1	0	900	900	0
6/14/2024 16:19	64902	MILL_T2	0	0	0	0	0	0	-0.55	-0.57	1	1	0	900	900	0
6/14/2024 16:22	67502	WEWI_T2	0	0	0	0	0	0	-0.82	-0.83	1	1	0	900	900	0
6/14/2024 16:23	15703	TANN_T2	1	1	0	6.2	5.6	-0.6	0	0	0	0	0	0	0	0
6/14/2024 16:23	15702	TANN_T2	0	0	0	0	0	0	-0.39	-0.14	0	0	0	0	0	0
6/14/2024 16:26	67502	WEWI_T2	0	0	0	0	0	0	-0.82	-0.83	1	1	0	900	900	0
6/14/2024 16:27	40701	FFLD_T1	32	50	18	0.63	0.63	0	0	0	0	0	0	0	0	0
6/14/2024 16:27	40703	FFLD_T1	4	4	0	0.43	0.63	0.2	0	0	0	0	0	0	0	0
6/14/2024 16:27	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/14/2024 16:27	40702	FFLD_T1	51	85	34	0.17	0.3	0.13	-0.43	-0.38	1	1	0	1200	1200	0
6/14/2024 16:27	61304	EARL_T1	0	0	0	0	0	0	-0.59	-0.62	1	1	0	600	600	0
6/14/2024 16:27	63305	GREE_T1	8	0	-8	0.24	0	-0.24	-0.86	-0.81	0	0	0	0	0	0
6/14/2024 16:27	40502	CRES_T2	16	20	4	0.19	0.33	0.14	-0.46	-0.5	0	0	0	0	0	0
6/14/2024 16:27	63304	GREE_T1	87	8	-79	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
6/14/2024 16:27	40501	CRES_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
6/14/2024 16:28	46801	HEPB_T2	30	28	-2	0.27	0.25	-0.02	0.89	0.89	0	0	0	0	0	0
6/14/2024 16:28	46803	HEPB_T2	7	5	-2	0.23	0.2	-0.03	0.52	0.53	0	0	0	0	0	0
6/14/2024 16:29	62602	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 16:29	63305	GREE_T1	8	0	-8	0.24	0	-0.24	-0.86	-0.81	0	0	0	0	0	0
6/14/2024 16:29	63804	HEMP_T1	1	1	0	6.4	5.6	-0.8	-1.26	-1.28	0	0	0	0	0	0
6/14/2024 16:29	63304	GREE_T1	87	8	-79	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
6/14/2024 16:29	62607	ENGL_T1	1	1	0	0.5	0.9	0.4	-0.31	-0.33	1	1	0	300	300	0
6/14/2024 16:30	46801	HEPB_T2	26	26	0	0.21	0.25	0.04	0	0	0	0	0	0	0	0
6/14/2024 16:30	46803	HEPB_T2	3	9	6	0.27	0.19	-0.08	0.52	0.53	0	0	0	0	0	0
6/14/2024 16:32	46801	HEPB_T2	26	26	0	0.21	0.25	0.04	0.89	0.89	0	0	0	0	0	0
6/14/2024 16:32	46803	HEPB_T2	3	9	6	0.27	0.19	-0.08	0	0	0	0	0	0	0	0
6/14/2024 16:34	67502	WEWI_T2	0	0	0	0	0	0	-0.82	-0.83	1	1	0	900	900	0
6/14/2024 16:36	44201	POIN_T1	4	17	13	0.15	0.18	0.03	-2.08	-2.1	2	2	0	2100	2100	0
6/14/2024 16:48	47401	PENS_T1	0	0	0	0	0	0	1.22	1.17	0	0	0	0	0	0
6/14/2024 16:48	47403	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/14/2024 16:50	59301	MCAL_T1	2	2	0	1.15	1.35	0.2	0	0	0	0	0	0	0	0
6/14/2024 16:50	59302	MCAL_T1	0	0	0	0	0	0	-0.21	-0.23	1	1	0	600	600	0
6/14/2024 16:52	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
6/14/2024 16:52	15702	TANN_T2	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
6/14/2024 16:58	46004	BERW_T2	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
6/14/2024 16:58	40502	CRES_T2	19	28	9	0.33	0.44	0.11	-0.54	-0.58	0	0	0	0	0	0
6/14/2024 16:58	40501	CRES_T2	4	9	5	0.15	0.27	0.12	0	0	0	0	0	0	0	0
6/14/2024 16:58	46002	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 16:59	40501	CRES_T2	4	9	5	0.15	0.27	0.12	0	0	0	0	0	0	0	0
6/14/2024 16:59	40502	CRES_T2	19	28	9	0.33	0.44	0.11	-0.54	-0.58	0	0	0	0	0	0
6/14/2024 17:02	59001	MIFF_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/14/2024 17:02	59002	MIFF_T1	6	5	-1	0.68	0.26	-0.42	0	0	0	0	0	0	0	0
6/14/2024 17:02	59003	MIFF_T1	1	0	-1	0.5	0	-0.5	-0.32	-0.34	0	0	0	0	0	0
6/14/2024 17:03	52504	PROG_T1	0	9	9	0	0.18	0.18	0	0	0	0	0	0	0	0
6/14/2024 17:03	50505	MECH_T1	0	0	0	0	0	0	-2.68	-2.79	0	0	0	0	0	0
6/14/2024 17:03	52501	PROG_T1	0	1	1	0	0.1	0.1	1.08	1.04	1	1	0	300	300	0
6/14/2024 17:03	50501	MECH_T1	3	4	1	0.23	0.45	0.22	0	0	0	0	0	0	0	0
6/14/2024 17:03	50502	MECH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
6/14/2024 17:03	23001	SAIO_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
6/14/2024 17:04	40601	PIGR_T1	2	4	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/14/2024 17:06	52501	PROG_T1	0	1	1	0	0.1	0.1	1.08	1.04	1	1	0	300	300	0
6/14/2024 17:06	52504	PROG_T1	0	9	9	0	0.18	0.18	0	0	0	0	0	0	0	0
6/14/2024 17:08	52501	PROG_T1	0	1	1	0	0.1	0.1	1.04	0.99	1	1	0	300	300	0
6/14/2024 17:08	44902	SCOT_T2	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
6/14/2024 17:08	52504	PROG_T1	0	9	9	0	0.18	0.18	0	0	0	0	0	0	0	0
6/14/2024 17:09	42201	SHEN_T2	0	2	2	0	0.1	0.1	0.61	0.6	0	0	0	0	0	0
6/14/2024 17:15	53302	GRAT_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/14/2024 17:15	64701	LITI_T1	0	0	0	0	0	0	-0.07	-0.14	1	1	0	900	900	0
6/14/2024 17:16	44701	MUNC_T2	2	2	0	0.25	0.45	0.2	-1.37	-1.37	0	0	0	0	0	0
6/14/2024 17:16	44703	MUNC_T2	2	3	1	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
6/14/2024 17:17	40101	HUNT_T2	1	1	0	0.1	0	-0.1	-0.42	-0.42	0	0	0	0	0	0
6/14/2024 17:17	64904	MILL_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
6/14/2024 17:18	44703	MUNC_T2	2	3	1	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
6/14/2024 17:18	44701	MUNC_T2	2	2	0	0.25	0.45	0.2	-1.37	-1.37	0	0	0	0	0	0
6/14/2024 17:19	48301	ORWI_T1	2	2	0	5.6	5.6	0	0.54	0.51	0	0	0	0	0	0
6/14/2024 17:21	44701	MUNC_T2	2	2	0	0.25	0.45	0.2	-1.37	-1.38	0	0	0	0	0	0
6/14/2024 17:21	44703	MUNC_T2	2	3	1	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
6/14/2024 17:22	59201	THOM_T1	11	11	0	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
6/14/2024 17:22	59202	THOM_T1	39	64	25	0.22	0.22	0	0	0	0	0	0	0	0	0
6/14/2024 17:23	59201	THOM_T1	11	11	0	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
6/14/2024 17:23	59202	THOM_T1	39	64	25	0.22	0.22	0	0	0	0	0	0	0	0	0
6/14/2024 17:24	55102	WERT_T2	0	1	1	0	0	0	-0.54	-0.42	2	2	0	1200	1200	0
6/14/2024 17:24	65401	MARI_T1	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
6/14/2024 17:25	40501	CRES_T2	8	7	-1	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
6/14/2024 17:25	40502	CRES_T2	28	25	-3	0.43	0.38	-0.05	-0.62	-0.62	0	0	0	0	0	0
6/14/2024 17:25	51108	CARL_T1	1	1	0	0.4	0.5	0.1	-0.11	-0.09	0	0	0	0	0	0
6/14/2024 17:25	45402	WBLO_T2	64	67	3	0.36	0.4	0.04	-1.03	-1.02	0	0	0	0	0	0
6/14/2024 17:25	51102	CARL_T1	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
6/14/2024 17:25	51101	CARL_T1	1	1	0	6.3	5.8	-0.5	0	0	0	0	0	0	0	0
6/14/2024 17:26	45402	WBLO_T2	64	67	3	0.36	0.4	0.04	-0.52	-0.51	0	0	0	0	0	0
6/14/2024 17:27	65401	MARI_T1	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
6/14/2024 17:28	65401	MARI_T1	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
6/14/2024 17:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 17:31	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 17:31	61701	ELIZ_T1	1	1	0	3	3.2	0.2	1.05	0.95	0	0	0	0	0	0
6/14/2024 17:32	42901	MIDD_T2	77	53	-24	0.15	0.15	0	0	0	0	0	0	0	0	0
6/14/2024 17:32	42902	MIDD_T2	52	44	-8	0.35	0.36	0.01	-0.32	-0.35	0	0	0	0	0	0
6/14/2024 17:32	42903	MIDD_T2	25	26	1	0.39	0.4	0.01	0	0	0	0	0	0	0	0
6/14/2024 17:33	42902	MIDD_T2	52	44	-8	0.35	0.36	0.01	0	0	0	0	0	0	0	0
6/14/2024 17:33	42903	MIDD_T2	25	26	1	0.39	0.4	0.01	0.14	0.13	0	0	0	0	0	0
6/14/2024 17:33	42901	MIDD_T2	77	53	-24	0.15	0.15	0	0	0	0	0	0	0	0	0
6/14/2024 17:34	42903	MIDD_T2	25	26	1	0.39	0.4	0.01	0	0	0	0	0	0	0	0
6/14/2024 17:34	51102	CARL_T1	6	2	-4	0.12	0.25	0.13	0	0	0	0	0	0	0	0
6/14/2024 17:34	51108	CARL_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/14/2024 17:34	51109	CARL_T1	0	0	0	0	0	0	-0.54	0.75	0	0	0	0	0	0
6/14/2024 17:34	42902	MIDD_T2	52	44	-8	0.35	0.36	0.01	-0.65	-0.7	0	0	0	0	0	0
6/14/2024 17:34	51204	MTON_T2	0	0	0	0	0	0	-0.14	-0.15	1	1	0	600	600	0
6/14/2024 17:34	42901	MIDD_T2	77	53	-24	0.15	0.15	0	0	0	0	0	0	0	0	0
6/14/2024 17:34	51101	CARL_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
6/14/2024 17:35	50701	SMEC_T1	1	12	11	0.1	0.2	0.1	0.06	0.04	0	0	0	0	0	0
6/14/2024 17:36	51204	MTON_T2	0	0	0	0	0	0	-0.14	-0.15	1	1	0	600	600	0
6/14/2024 17:36	58001	WCAR_T1	4	4	0	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
6/14/2024 17:36	58003	WCAR_T1	40	26	-14	0.22	0.23	0.01	0.36	1.01	1	0	-1	600	0	-600
6/14/2024 17:40	67505	WEWI_T1	0	0	0	0	0	0	0.66	0.54	1	1	0	900	900	0
6/14/2024 17:40	40501	CRES_T2	5	6	1	0.34	0.18	-0.16	0	0	0	0	0	0	0	0
6/14/2024 17:40	40502	CRES_T2	25	8	-17	0.38	0.45	0.07	-0.62	-0.07	0	0	0	0	0	0
6/14/2024 17:40	67805	WLAN_T1	0	0	0	0	0	0	-1.03	-1.03	0	0	0	0	0	0
6/14/2024 17:40	67804	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/14/2024 17:41	11904	ETEX_T2	0	1	1	0	0	0	-0.95	-1.01	0	0	0	0	0	0
6/14/2024 17:43	67505	WEWI_T1	0	0	0	0	0	0	0.66	0.54	1	1	0	900	900	0
6/14/2024 17:43	45501	DERR_T2	2	0	-2	0.25	0	-0.25	-0.76	0.78	2	2	0	1800	1800	0
6/14/2024 17:43	45502	DERR_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/14/2024 17:45	63302	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/14/2024 17:45	63306	GREE_T1	0	0	0	0	0	0	-1.64	-1.66	1	1	0	900	900	0
6/14/2024 17:45	63301	GREE_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
6/14/2024 17:45	63305	GREE_T1	2	0	-2	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 17:46	50501	MECH_T1	4	4	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/14/2024 17:46	50506	MECH_T1	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
6/14/2024 17:46	50503	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 17:46	50502	MECH_T1	1	1	0	2.3	2.5	0.2	0	0	0	0	0	0	0	0
6/14/2024 17:47	51202	MTON_T2	0	0	0	0	0	0	-0.83	-0.84	1	1	0	1200	1200	0
6/14/2024 17:48	51202	MTON_T2	0	0	0	0	0	0	-0.83	-0.84	1	1	0	1200	1200	0
6/14/2024 17:48	47401	PENS_T1	2	0	-2	0.5	0	-0.5	1.17	1.16	0	0	0	0	0	0
6/14/2024 17:49	50502	MECH_T1	1	1	0	2.3	2.5	0.2	0	0	0	0	0	0	0	0
6/14/2024 17:49	50503	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 17:49	50506	MECH_T1	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
6/14/2024 17:49	50501	MECH_T1	4	4	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/14/2024 17:49	47401	PENS_T1	2	0	-2	0.5	0	-0.5	1.17	1.16	0	0	0	0	0	0
6/14/2024 17:50	50502	MECH_T1	1	1	0	2.3	2.5	0.2	0	0	0	0	0	0	0	0
6/14/2024 17:50	50503	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 17:50	66703	STRA_T1	2	4	2	0.4	0.2	-0.2	0.02	-0.01	0	0	0	0	0	0
6/14/2024 17:50	50501	MECH_T1	4	4	0	0.6	0.8	0.2	-0.16	-0.4	0	0	0	0	0	0
6/14/2024 17:50	47401	PENS_T1	2	0	-2	0.5	0	-0.5	2.34	2.31	0	0	0	0	0	0
6/14/2024 17:50	66301	MCGO_T2	0	0	0	0	0	0	-1.42	-1.43	0	0	0	0	0	0
6/14/2024 17:50	42204	SHEN_T2	0	0	0	0	0	0	-0.59	-0.57	1	1	0	1200	1200	0
6/14/2024 17:51	66703	STRA_T1	2	4	2	0.4	0.2	-0.2	-0.01	-0.11	0	0	0	0	0	0
6/14/2024 17:53	66703	STRA_T1	2	4	2	0.4	0.2	-0.2	-0.01	-0.11	0	0	0	0	0	0
6/14/2024 17:54	43302	WATS_T2	4	4	0	0.5	0.53	0.03	0	0	0	0	0	0	0	0
6/14/2024 17:54	43301	WATS_T2	2	1	-1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
6/14/2024 17:54	43304	WATS_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
6/14/2024 17:58	22903	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 17:58	59201	THOM_T1	11	14	3	0.18	0.35	0.17	0	0	0	0	0	0	0	0
6/14/2024 17:58	22905	HARW_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
6/14/2024 17:58	59202	THOM_T1	60	101	41	0.23	0.22	-0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/14/2024 17:59	62104	ELAN_T1	0	0	0	0	0	0	0.93	0.81	2	2	0	1500	1500	0
6/14/2024 17:59	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
6/14/2024 18:00	62104	ELAN_T1	0	0	0	0	0	0	0.93	0.81	2	2	0	1500	1500	0
6/14/2024 18:02	24201	PROV_T3	36	28	-8	0.33	0.41	0.08	-1.11	-1.12	1	1	0	1200	1200	0
6/14/2024 18:02	50502	MECH_T1	1	1	0	2.5	2.3	-0.2	0	0	0	0	0	0	0	0
6/14/2024 18:02	50501	MECH_T1	4	4	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/14/2024 18:02	24205	PROV_T3	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/14/2024 18:02	24204	PROV_T3	2	1	-1	2.75	5.5	2.75	0	0	0	0	0	0	0	0
6/14/2024 18:02	50505	MECH_T1	0	0	0	0	0	0	-2.81	-2.86	0	0	0	0	0	0
6/14/2024 18:03	22903	HARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 18:03	22905	HARW_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
6/14/2024 18:04	12006	HATF_T1	0	0	0	0	0	0	0.41	0.25	1	1	0	1200	1200	0
6/14/2024 18:08	67804	WLAN_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/14/2024 18:08	67801	WLAN_T1	0	0	0	0	0	0	0.11	0.2	0	0	0	0	0	0
6/14/2024 18:12	46004	BERW_T2	0	0	0	0	0	0	-0.18	-0.16	0	0	0	0	0	0
6/14/2024 18:17	64201	KINZ_T1	0	7	7	0	0.49	0.49	-0.34	-0.41	3	3	0	1500	1500	0
6/14/2024 18:17	64202	KINZ_T1	2	7	5	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
6/14/2024 18:17	63305	GREE_T1	0	3	3	0	0.1	0.1	-0.94	-0.95	0	0	0	0	0	0
6/14/2024 18:17	64204	KINZ_T1	2	20	18	0.65	0.25	-0.4	0	0	0	0	0	0	0	0
6/14/2024 18:17	52004	LING_T2	0	1	1	0	0	0	0.33	0.32	0	0	0	0	0	0
6/14/2024 18:17	63302	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 18:18	64202	KINZ_T1	2	7	5	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
6/14/2024 18:18	64201	KINZ_T1	0	7	7	0	0.49	0.49	0	0	0	0	0	0	0	0
6/14/2024 18:18	64204	KINZ_T1	2	20	18	0.65	0.25	-0.4	0	0	0	0	0	0	0	0
6/14/2024 18:18	64203	KINZ_T1	0	0	0	0	0	0	0.07	0.08	1	1	0	600	600	0
6/14/2024 18:19	63305	GREE_T1	0	3	3	0	0.1	0.1	-0.94	-0.95	0	0	0	0	0	0
6/14/2024 18:19	63302	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 18:20	50506	MECH_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
6/14/2024 18:20	50501	MECH_T1	4	4	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/14/2024 18:20	50502	MECH_T1	1	1	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
6/14/2024 18:24	20402	ASHF_T2	9	10	1	0.32	0.27	-0.05	0	0	0	0	0	0	0	0
6/14/2024 18:24	20401	ASHF_T2	8	12	4	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
6/14/2024 18:24	20403	ASHF_T2	2	3	1	0.1	0.17	0.07	0.43	0.42	0	0	0	0	0	0
6/14/2024 18:25	56801	BENV_T1	12	14	2	0.7	1	0.3	-0.48	-0.5	1	1	0	600	600	0
6/14/2024 18:27	56802	BENV_T2	17	30	13	0.22	0.25	0.03	-1.02	-1.04	0	0	0	0	0	0
6/14/2024 18:29	57104	SPHI_T2	1	2	1	1.6	1.6	0	0	0	0	0	0	0	0	0
6/14/2024 18:29	57106	SPHI_T2	3	3	0	1.43	1.57	0.14	0	0	0	0	0	0	0	0
6/14/2024 18:29	57103	SPHI_T2	0	0	0	0	0	0	-1.41	-1.45	1	1	0	600	600	0
6/14/2024 18:31	47103	MARL_T2	0	2	2	0	0.25	0.25	-0.39	-0.4	0	0	0	0	0	0
6/14/2024 18:31	47102	MARL_T2	2	4	2	0.1	0.1	0	0	0	0	0	0	0	0	0
6/14/2024 18:31	43202	MVIL_T2	70	76	6	0.62	0.6	-0.02	-0.58	-0.58	0	0	0	0	0	0
6/14/2024 18:32	43202	MVIL_T2	70	76	6	0.62	0.6	-0.02	-0.58	-0.58	0	0	0	0	0	0
6/14/2024 18:33	47103	MARL_T2	0	2	2	0	0.25	0.25	-0.39	-0.4	0	0	0	0	0	0
6/14/2024 18:33	47102	MARL_T2	2	4	2	0.1	0.1	0	0	0	0	0	0	0	0	0
6/14/2024 18:36	42203	SHEN_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
6/14/2024 18:36	42201	SHEN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/14/2024 18:36	40602	PIGR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/14/2024 18:36	40601	PIGR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/14/2024 18:39	60301	TWVA_T2	0	0	0	0	0	0	-0.98	-1.01	1	1	0	900	900	0
6/14/2024 18:43	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 18:45	46101	MACI_T2	0	0	0	0	0	0	-0.47	-0.46	1	1	0	1200	1200	0
6/14/2024 18:49	13503	MCMI_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
6/14/2024 18:51	40602	PIGR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/14/2024 18:51	40601	PIGR_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/14/2024 18:52	50701	SMEC_T1	7	8	1	0.19	0.21	0.02	-0.09	-0.1	0	0	0	0	0	0
6/14/2024 18:52	13503	MCMI_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
6/14/2024 18:54	60101	COCA_T1	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
6/14/2024 18:55	60101	COCA_T1	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
6/14/2024 18:56	60101	COCA_T1	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
6/14/2024 18:56	58006	WCAR_T2	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
6/14/2024 19:01	24204	PROV_T3	38	55	17	0.33	0.26	-0.07	0	0	0	0	0	0	0	0
6/14/2024 19:01	24205	PROV_T3	72	74	2	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
6/14/2024 19:01	24201	PROV_T3	358	403	45	0.21	0.24	0.03	-1.15	-1.16	1	1	0	1200	1200	0
6/14/2024 19:03	50501	MECH_T1	4	4	0	0.88	0.95	0.07	0	0	0	0	0	0	0	0
6/14/2024 19:03	65001	NEFF_T2	26	57	31	0.12	0.14	0.02	0	0	0	0	0	0	0	0
6/14/2024 19:03	50506	MECH_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
6/14/2024 19:03	65003	NEFF_T2	15	50	35	0.17	0.15	-0.02	-1.72	-1.8	2	2	0	1800	1800	0
6/14/2024 19:03	50502	MECH_T1	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
6/14/2024 19:05	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 19:05	56501	ROCK_T2	3	6	3	3.03	1.88	-1.15	-0.77	-0.78	0	0	0	0	0	0
6/14/2024 19:07	56501	ROCK_T2	3	6	3	3.03	1.88	-1.15	-1.57	-1.6	0	0	0	0	0	0
6/14/2024 19:08	67805	WLAN_T1	3	155	152	0.1	0.14	0.04	0	0	0	0	0	0	0	0
6/14/2024 19:08	67804	WLAN_T1	0	0	0	0	0	0	-0.56	-0.59	0	0	0	0	0	0
6/14/2024 19:10	67502	WEWI_T2	0	0	0	0	0	0	-1.05	-0.07	1	0	-1	900	0	-900
6/14/2024 19:12	67505	WEWI_T1	0	0	0	0	0	0	0.42	0.39	1	1	0	900	900	0
6/14/2024 19:15	62605	ENGL_T1	0	0	0	0	0	0	-0.84	-0.86	0	0	0	0	0	0
6/14/2024 19:18	40602	PIGR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/14/2024 19:20	60801	BUCK_T1	12	0	-12	0.14	0	-0.14	0	0	0	0	0	0	0	0
6/14/2024 19:20	60803	BUCK_T1	10	1	-9	0.31	0	-0.31	-0.97	-0.98	1	1	0	600	600	0
6/14/2024 19:21	13501	MCMI_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
6/14/2024 19:22	67805	WLAN_T1	48	200	152	0.1	0.16	0.06	0	0	0	0	0	0	0	0
6/14/2024 19:22	67803	WLAN_T1	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
6/14/2024 19:24	67503	WEWI_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
6/14/2024 19:26	47401	PENS_T1	0	1	1	0	0	0	1.2	1.16	0	0	0	0	0	0
6/14/2024 19:27	20402	ASHF_T2	3	0	-3	0.93	0	-0.93	0	0	0	0	0	0	0	0
6/14/2024 19:27	20403	ASHF_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
6/14/2024 19:27	20401	ASHF_T2	2	3	1	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
6/14/2024 19:31	64701	LITI_T1	0	0	0	0	0	0	-0.35	0.54	1	0	-1	900	0	-900
6/14/2024 19:40	22003	BOHE_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/14/2024 19:40	22002	BOHE_T1	0	0	0	0	0	0	0.48	0.43	0	0	0	0	0	0
6/14/2024 19:42	53502	EVIL_T2	0	0	0	0	0	0	0.95	0.93	0	0	0	0	0	0
6/14/2024 19:42	53501	EVIL_T2	1	2	1	0.5	0.65	0.15	0	0	0	0	0	0	0	0
6/14/2024 20:09	15204	SFAR_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
6/14/2024 20:09	15202	SFAR_T1	0	0	0	0	0	0	-0.88	-0.86	1	1	0	1200	1200	0
6/14/2024 20:17	52402	GRPA_T2	5	5	0	0.62	0.8	0.18	0	0	0	0	0	0	0	0
6/14/2024 20:17	52404	GRPA_T2	1	1	0	0.3	0.6	0.3	-0.04	-0.05	0	0	0	0	0	0
6/14/2024 20:17	52403	GRPA_T2	9	1	-8	1.09	0	-1.09	0	0	0	0	0	0	0	0
6/14/2024 20:22	25503	MADI_T1	72	108	36	0.23	0.3	0.07	-0.86	-0.86	0	0	0	0	0	0
6/14/2024 20:26	16302	ALPA_T2	0	0	0	0	0	0	0.98	1.06	0	0	0	0	0	0
6/14/2024 20:27	16103	BING_T2	0	0	0	0	0	0	-1.11	-1.12	1	1	0	900	900	0
6/14/2024 20:27	16102	BING_T2	5	0	-5	0.22	0	-0.22	0	0	0	0	0	0	0	0
6/14/2024 20:28	16302	ALPA_T2	0	0	0	0	0	0	1.95	2.11	0	0	0	0	0	0
6/14/2024 20:29	16302	ALPA_T2	0	0	0	0	0	0	0.98	1.06	0	0	0	0	0	0
6/14/2024 20:30	16302	ALPA_T2	0	0	0	0	0	0	0.98	1.06	0	0	0	0	0	0
6/14/2024 20:58	55001	NEWP_T1	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
6/14/2024 20:58	55002	NEWP_T1	5	5	0	0.92	0.8	-0.12	0	0	0	0	0	0	0	0
6/14/2024 21:04	64101	REFR_T1	0	0	0	0	0	0	0.47	0.43	0	0	0	0	0	0
6/14/2024 21:05	64101	REFR_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
6/14/2024 21:07	64101	REFR_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
6/14/2024 21:10	64101	REFR_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
6/14/2024 21:10	13905	SEID_T1	0	0	0	0	0	0	-0.77	-0.79	1	1	0	1200	1200	0
6/14/2024 21:11	64101	REFR_T1	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
6/14/2024 21:40	67602	WARW_T2	0	0	0	0	0	0	0.08	0.07	1	1	0	1200	1200	0
6/14/2024 21:52	66301	MCGO_T2	0	0	0	0	0	0	-1.58	-1.59	0	0	0	0	0	0
6/14/2024 21:53	56802	BENV_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
6/14/2024 21:54	56802	BENV_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
6/14/2024 21:55	67801	WLAN_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
6/14/2024 21:55	67802	WLAN_T1	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
6/14/2024 21:55	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 21:55	67805	WLAN_T1	281	433	152	0.16	0.27	0.11	0	0	0	0	0	0	0	0
6/14/2024 22:01	56802	BENV_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
6/14/2024 22:07	57601	RUTH_T2	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
6/14/2024 22:15	55003	NEWP_T2	2	8	6	0.1	0.3	0.2	-0.71	-0.72	1	1	0	600	600	0
6/14/2024 22:16	47002	HUGH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:16	47001	HUGH_T2	5	4	-1	0.14	0.18	0.04	-0.8	-0.82	0	0	0	0	0	0
6/14/2024 22:18	17002	RIRO_T2	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
6/14/2024 22:20	47001	HUGH_T2	5	4	-1	0.14	0.18	0.04	-0.8	-0.82	0	0	0	0	0	0
6/14/2024 22:20	47002	HUGH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:21	60801	BUCK_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:21	60803	BUCK_T1	12	13	1	0.18	0.28	0.1	-1.06	-1.07	1	1	0	600	600	0
6/14/2024 22:23	62104	ELAN_T1	0	0	0	0	0	0	0.02	0.01	1	1	0	1200	1200	0
6/14/2024 22:23	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/14/2024 22:23	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:23	67503	WEWI_T2	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
6/14/2024 22:24	48302	ORWI_T2	2	2	0	0.7	0.65	-0.05	-0.02	-0.03	0	0	0	0	0	0
6/14/2024 22:24	64201	KINZ_T1	6	8	2	0.5	0.44	-0.06	0.52	0.8	1	0	-1	300	0	-300
6/14/2024 22:24	63804	HEMP_T1	1	1	0	6	5.5	-0.5	-0.16	-0.17	0	0	0	0	0	0
6/14/2024 22:24	64202	KINZ_T1	12	10	-2	0.18	0.29	0.11	0	0	0	0	0	0	0	0
6/14/2024 22:24	65004	NEFF_T2	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
6/14/2024 22:24	13303	ORVI_T1	0	0	0	0	0	0	1.05	1.19	0	0	0	0	0	0
6/14/2024 22:24	64204	KINZ_T1	25	36	11	0.25	0.31	0.06	0	0	0	0	0	0	0	0
6/14/2024 22:26	65001	NEFF_T2	0	0	0	0	0	0	-0.99	-1.01	1	1	0	1200	1200	0
6/14/2024 22:26	64203	KINZ_T1	0	0	0	0	0	0	0.47	0.43	0	0	0	0	0	0
6/14/2024 22:26	64204	KINZ_T1	25	36	11	0.25	0.31	0.06	0	0	0	0	0	0	0	0
6/14/2024 22:26	64202	KINZ_T1	12	10	-2	0.18	0.29	0.11	0	0	0	0	0	0	0	0
6/14/2024 22:26	60305	TWVA_T2	0	0	0	0	0	0	1.25	1.25	0	0	0	0	0	0
6/14/2024 22:26	64201	KINZ_T1	6	8	2	0.5	0.44	-0.06	0.52	0.8	1	0	-1	300	0	-300
6/14/2024 22:27	42203	SHEN_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
6/14/2024 22:27	42201	SHEN_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/14/2024 22:28	64902	MILL_T2	0	0	0	0	0	0	-0.41	-0.43	1	1	0	900	900	0
6/14/2024 22:28	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
6/14/2024 22:28	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:29	62607	ENGL_T1	0	1	1	0	0	0	-0.39	-0.4	0	0	0	0	0	0
6/14/2024 22:29	63403	HONY_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
6/14/2024 22:29	21204	ECAR_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/14/2024 22:29	67502	WEWI_T2	0	0	0	0	0	0	-0.19	-1.22	0	1	1	0	900	900
6/14/2024 22:29	21206	ECAR_T2	1	1	0	7.8	7.9	0.1	0.01	0.02	0	0	0	0	0	0
6/14/2024 22:29	66703	STRA_T1	24	40	16	0.21	0.21	0	-0.08	-0.12	0	0	0	0	0	0
6/14/2024 22:29	60301	TWVA_T2	0	0	0	0	0	0	-1.38	-1.4	1	1	0	900	900	0
6/14/2024 22:29	63402	HONY_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
6/14/2024 22:30	64701	LITI_T1	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
6/14/2024 22:30	13501	MCMI_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
6/14/2024 22:30	67502	WEWI_T2	0	6	6	0	0.1	0.1	-0.19	-1.22	0	1	1	0	900	900

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/14/2024 22:30	40802	EXCH_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
6/14/2024 22:31	67502	WEWI_T2	0	6	6	0	0.1	0.1	-0.19	-1.22	0	1	1	0	900	900
6/14/2024 22:31	67605	WARW_T1	1	10	9	0.2	0.21	0.01	0	0	0	0	0	0	0	0
6/14/2024 22:31	60101	COCA_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
6/14/2024 22:31	15703	TANN_T2	1	1	0	4.8	4.7	-0.1	0	0	0	0	0	0	0	0
6/14/2024 22:31	67603	WARW_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
6/14/2024 22:31	67801	WLAN_T1	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
6/14/2024 22:31	63305	GREE_T1	0	0	0	0	0	0	-1.03	-1.04	0	0	0	0	0	0
6/14/2024 22:31	47103	MARL_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
6/14/2024 22:31	67503	WEWI_T2	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
6/14/2024 22:31	67805	WLAN_T1	341	0	-341	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/14/2024 22:31	63304	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/14/2024 22:31	64902	MILL_T2	0	0	0	0	0	0	-0.41	-0.43	1	1	0	900	900	0
6/14/2024 22:31	63401	HONY_T1	0	0	0	0	0	0	1.3	0.98	0	0	0	0	0	0
6/14/2024 22:31	15702	TANN_T2	15	0	-15	0.12	0	-0.12	-0.36	-0.38	0	0	0	0	0	0
6/14/2024 22:32	56504	ROCK_T2	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
6/14/2024 22:32	59201	THOM_T1	5	16	11	0.14	0.24	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:32	56501	ROCK_T2	3	3	0	3.53	2.57	-0.96	0	0	0	0	0	0	0	0
6/14/2024 22:32	52404	GRPA_T2	1	1	0	0.4	0.7	0.3	-0.26	-0.28	0	0	0	0	0	0
6/14/2024 22:32	65401	MARI_T1	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
6/14/2024 22:32	62104	ELAN_T1	0	0	0	0	0	0	0.02	0.01	1	1	0	1200	1200	0
6/14/2024 22:32	61701	ELIZ_T1	1	1	0	4.6	4.5	-0.1	0.73	0.66	0	0	0	0	0	0
6/14/2024 22:32	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/14/2024 22:32	55002	NEWP_T1	4	5	1	0.43	0.7	0.27	-0.38	-0.39	0	0	0	0	0	0
6/14/2024 22:32	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:32	59202	THOM_T1	11	141	130	0.15	0.17	0.02	0	0	0	0	0	0	0	0
6/14/2024 22:32	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/14/2024 22:32	52402	GRPA_T2	3	4	1	0.33	0.7	0.37	0	0	0	0	0	0	0	0
6/14/2024 22:33	53903	HALI_T2	2	1	-1	0.65	0.2	-0.45	-0.12	-0.13	0	0	0	0	0	0
6/14/2024 22:33	40602	PIGR_T1	1	1	0	1	0.8	-0.2	-0.01	-0.01	0	0	0	0	0	0
6/14/2024 22:33	53902	HALI_T2	1	1	0	4.3	5.1	0.8	0	0	0	0	0	0	0	0
6/14/2024 22:33	61304	EARL_T1	0	0	0	0	0	0	-0.7	-0.72	1	1	0	600	600	0
6/14/2024 22:34	67505	WEWI_T1	0	0	0	0	0	0	0.12	0.12	1	1	0	900	900	0
6/14/2024 22:34	63306	GREE_T1	0	0	0	0	0	0	-1.36	-1.38	1	1	0	900	900	0
6/14/2024 22:34	42201	SHEN_T2	0	3	3	0	0.1	0.1	0.45	0.44	0	0	0	0	0	0
6/14/2024 22:34	22003	BOHE_T1	1	6	5	1.3	0.33	-0.97	0	0	0	0	0	0	0	0
6/14/2024 22:34	53903	HALI_T2	2	1	-1	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
6/14/2024 22:34	22002	BOHE_T1	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
6/14/2024 22:34	65604	QVIL_T2	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
6/14/2024 22:34	47401	PENS_T1	0	0	0	0	0	0	0.94	0.97	0	0	0	0	0	0
6/14/2024 22:34	40501	CRES_T2	2	6	4	0.2	0.23	0.03	0	0	0	0	0	0	0	0
6/14/2024 22:34	63304	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/14/2024 22:34	60803	BUCK_T1	13	8	-5	0.28	0.15	-0.13	-1.06	-1.07	1	1	0	600	600	0
6/14/2024 22:34	67502	WEWI_T2	0	6	6	0	0.1	0.1	-0.19	-1.22	0	1	1	0	900	900
6/14/2024 22:34	60801	BUCK_T1	4	1	-3	0.1	0.1	0	0	0	0	0	0	0	0	0
6/14/2024 22:34	60101	COCA_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
6/14/2024 22:34	63305	GREE_T1	0	0	0	0	0	0	-1.03	-1.04	0	0	0	0	0	0
6/14/2024 22:34	53902	HALI_T2	1	1	0	4.3	5.1	0.8	0	0	0	0	0	0	0	0
6/14/2024 22:34	53901	HALI_T2	0	0	0	0	0	0	-0.76	-0.77	0	0	0	0	0	0
6/14/2024 22:34	40502	CRES_T2	8	27	19	0.44	0.3	-0.14	-0.3	-0.31	0	0	0	0	0	0
6/14/2024 22:35	65205	PRIN_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:35	53302	GRAT_T2	6	17	11	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
6/14/2024 22:35	40602	PIGR_T1	1	1	0	1	0.8	-0.2	-0.01	-0.01	0	0	0	0	0	0
6/14/2024 22:35	62605	ENGL_T1	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
6/14/2024 22:35	63305	GREE_T1	0	0	0	0	0	0	-1.03	-1.04	0	0	0	0	0	0
6/14/2024 22:35	14404	SSLA_T1	1	1	0	5.1	5.4	0.3	0.05	0.04	0	0	0	0	0	0
6/14/2024 22:35	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:35	63304	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/14/2024 22:35	62607	ENGL_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/14/2024 22:35	10805	CHHI_T2	1	1	0	7.3	7.2	-0.1	-1.05	-0.98	1	1	0	600	600	0
6/14/2024 22:35	51204	MTON_T2	0	0	0	0	0	0	-0.33	-0.34	1	1	0	600	600	0
6/14/2024 22:35	67805	WLAN_T1	341	0	-341	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/14/2024 22:35	61701	ELIZ_T1	1	1	0	4.6	4.5	-0.1	0.73	0.66	0	0	0	0	0	0
6/14/2024 22:35	66703	STRA_T1	40	14	-26	0.21	0.21	0	-0.08	-0.12	0	0	0	0	0	0
6/14/2024 22:35	67803	WLAN_T1	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
6/14/2024 22:36	24205	PROV_T3	1	1	0	1.4	1.9	0.5	0	0	0	0	0	0	0	0
6/14/2024 22:36	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:36	24201	PROV_T3	1	2	1	6.8	3.4	-3.4	-1.28	-1.29	1	1	0	1200	1200	0
6/14/2024 22:36	12006	HATF_T1	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
6/14/2024 22:36	59302	MCAL_T1	1	1	0	0.1	0.4	0.3	-0.34	-0.34	1	1	0	600	600	0
6/14/2024 22:36	53501	EVIL_T2	1	2	1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
6/14/2024 22:36	59301	MCAL_T1	2	2	0	1.05	1.4	0.35	0	0	0	0	0	0	0	0
6/14/2024 22:36	24204	PROV_T3	1	2	1	6.1	2.95	-3.15	0	0	0	0	0	0	0	0
6/14/2024 22:36	46206	DANV_T2	0	0	0	0	0	0	0.79	0.77	1	1	0	1200	1200	0
6/14/2024 22:36	53502	EVIL_T2	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
6/14/2024 22:37	59202	THOM_T1	11	141	130	0.15	0.17	0.02	0	0	0	0	0	0	0	0
6/14/2024 22:37	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/14/2024 22:37	50201	HARR_T3	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
6/14/2024 22:37	62102	ELAN_T1	0	0	0	0	0	0	1.04	0.89	0	0	0	0	0	0
6/14/2024 22:37	23202	HIRU_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
6/14/2024 22:37	22003	BOHE_T1	1	6	5	1.3	0.33	-0.97	0	0	0	0	0	0	0	0
6/14/2024 22:37	50105	HARR_T3	6	6	0	5.65	5.6	-0.05	0	0	0	0	0	0	0	0
6/14/2024 22:37	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:37	50103	HARR_T3	1	2	1	0.1	0.25	0.15	-0.29	-0.31	1	1	0	1200	1200	0
6/14/2024 22:37	23403	HONE_T1	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
6/14/2024 22:37	61102	BERK_T5	0	0	0	0	0	0	0.96	0.93	1	1	0	300	300	0
6/14/2024 22:37	50202	HARR_T3	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
6/14/2024 22:37	47103	MARL_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
6/14/2024 22:37	45802	HEGI_T2	47	44	-3	1.36	0.87	-0.49	0.44	0.35	0	0	0	0	0	0
6/14/2024 22:37	51202	MTON_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
6/14/2024 22:37	16102	BING_T2	14	16	2	0.19	0.29	0.1	0.43	0.43	0	0	0	0	0	0
6/14/2024 22:37	59201	THOM_T1	5	16	11	0.14	0.24	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:37	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:37	50107	HARR_T3	1	1	0	6.5	6.2	-0.3	0	0	0	0	0	0	0	0
6/14/2024 22:37	56801	BENV_T1	5	13	8	1.64	0.93	-0.71	-0.72	-0.73	1	1	0	600	600	0
6/14/2024 22:37	40802	EXCH_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
6/14/2024 22:38	52006	LING_T2	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
6/14/2024 22:38	44201	POIN_T1	58	108	50	0.22	0.19	-0.03	-2.07	-2.04	2	2	0	2100	2100	0
6/14/2024 22:38	52004	LING_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
6/14/2024 22:38	63304	GREE_T1	1	0	-1	0.1	0	-0.1	-1.5	-1.52	0	0	0	0	0	0
6/14/2024 22:38	52002	LING_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/14/2024 22:38	10805	CHHI_T2	1	1	0	7.3	7.2	-0.1	-0.98	-1.07	1	1	0	600	600	0
6/14/2024 22:38	40602	PIGR_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/14/2024 22:38	42201	SHEN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:38	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:38	42204	SHEN_T2	0	0	0	0	0	0	-0.68	-0.67	1	1	0	1200	1200	0
6/14/2024 22:38	61102	BERK_T5	0	0	0	0	0	0	0.96	0.93	1	1	0	300	300	0
6/14/2024 22:38	62601	ENGL_T1	0	0	0	0	0	0	-1.02	-0.97	0	0	0	0	0	0
6/14/2024 22:38	47401	PENS_T1	0	0	0	0	0	0	0.97	0.97	0	0	0	0	0	0
6/14/2024 22:38	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/14/2024 22:38	63202	MGTN_T2	0	0	0	0	0	0	-0.19	-0.22	1	1	0	900	900	0
6/14/2024 22:38	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
6/14/2024 22:38	67605	WARW_T1	1	10	9	0.2	0.21	0.01	-1.21	-1.23	0	0	0	0	0	0
6/14/2024 22:38	62607	ENGL_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/14/2024 22:38	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:39	66903	SHIL_T2	108	315	207	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
6/14/2024 22:39	24603	VARD_T2	13	54	41	0.41	0.26	-0.15	0	0	0	0	0	0	0	0
6/14/2024 22:39	57106	SPHI_T2	3	3	0	1.63	1.87	0.24	0	0	0	0	0	0	0	0
6/14/2024 22:39	46004	BERW_T2	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
6/14/2024 22:39	52006	LING_T2	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
6/14/2024 22:39	52002	LING_T2	1	1	0	0.4	0.4	0	0.18	0.13	0	0	0	0	0	0
6/14/2024 22:39	57103	SPHI_T2	0	0	0	0	0	0	-1.44	-1.5	0	0	0	0	0	0
6/14/2024 22:39	57104	SPHI_T2	1	2	1	1.7	1.3	-0.4	0	0	0	0	0	0	0	0
6/14/2024 22:39	56802	BENV_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
6/14/2024 22:39	66902	SHIL_T2	359	524	165	0.31	0.43	0.12	0	0	0	0	0	0	0	0
6/14/2024 22:39	61102	BERK_T5	0	0	0	0	0	0	2.89	2.79	3	3	0	900	900	0
6/14/2024 22:39	61103	BERK_T5	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
6/14/2024 22:39	66901	SHIL_T2	271	381	110	0.42	0.53	0.11	-0.02	-0.03	0	0	0	0	0	0
6/14/2024 22:39	24902	WHHA_T1	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
6/14/2024 22:39	57101	SPHI_T2	6	6	0	0.1	0.58	0.48	0	0	0	0	0	0	0	0
6/14/2024 22:39	20401	ASHF_T2	0	1	1	0	0	0	-0.17	-0.08	0	0	0	0	0	0
6/14/2024 22:39	24602	VARD_T2	694	757	63	0.74	0.87	0.13	-1.03	-1.03	0	0	0	0	0	0
6/14/2024 22:39	61304	EARL_T1	0	0	0	0	0	0	-0.72	-0.75	1	1	0	600	600	0
6/14/2024 22:40	50501	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:40	52006	LING_T2	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
6/14/2024 22:40	66504	SMAN_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
6/14/2024 22:40	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:40	56802	BENV_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
6/14/2024 22:40	52404	GRPA_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/14/2024 22:40	52002	LING_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/14/2024 22:40	54201	PENN_T1	3	3	0	1.03	1.23	0.2	-0.62	-0.6	0	0	0	0	0	0
6/14/2024 22:40	11904	ETEX_T2	2	3	1	0.1	0.1	0	-1.37	-1.39	0	0	0	0	0	0
6/14/2024 22:40	10805	CHHI_T2	1	1	0	7.3	7.2	-0.1	-0.98	-1.07	1	1	0	600	600	0
6/14/2024 22:40	52004	LING_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
6/14/2024 22:40	63801	HEMP_T1	0	0	0	0	0	0	-1.05	-1.04	1	1	0	900	900	0
6/14/2024 22:40	43301	WATS_T2	1	1	0	0.2	0	-0.2	0.38	0.37	0	0	0	0	0	0
6/14/2024 22:40	43302	WATS_T2	4	4	0	0.85	0.23	-0.62	0	0	0	0	0	0	0	0
6/14/2024 22:40	56501	ROCK_T2	3	3	0	3.53	2.57	-0.96	-2.23	-2.3	0	0	0	0	0	0
6/14/2024 22:40	67203	TEHI_T1	0	0	0	0	0	0	1.58	1.58	1	1	0	900	900	0
6/14/2024 22:40	59201	THOM_T1	5	16	11	0.14	0.24	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:40	54203	PENN_T1	5	18	13	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
6/14/2024 22:40	63804	HEMP_T1	1	1	0	5.8	5.4	-0.4	0	0	0	0	0	0	0	0
6/14/2024 22:40	43801	SWIL_T1	28	2	-26	0.43	3.25	2.82	0	0	0	0	0	0	0	0
6/14/2024 22:40	29402	BELT_T1	1	1	0	8.2	8.4	0.2	0	0	0	0	0	0	0	0
6/14/2024 22:40	40502	CRES_T2	8	27	19	0.44	0.3	-0.14	-0.31	-0.33	0	0	0	0	0	0
6/14/2024 22:40	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/14/2024 22:40	59202	THOM_T1	11	141	130	0.15	0.17	0.02	0	0	0	0	0	0	0	0
6/14/2024 22:40	50505	MECH_T1	0	0	0	0	0	0	-2.14	-2.09	0	0	0	0	0	0
6/14/2024 22:40	40501	CRES_T2	2	6	4	0.2	0.23	0.03	0	0	0	0	0	0	0	0
6/14/2024 22:40	61102	BERK_T5	0	0	0	0	0	0	0.96	0.93	1	1	0	300	300	0
6/14/2024 22:40	52403	GRPA_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
6/14/2024 22:40	43304	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/14/2024 22:40	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/14/2024 22:40	50502	MECH_T1	1	1	0	1.7	1.9	0.2	0	0	0	0	0	0	0	0
6/14/2024 22:40	47401	PENS_T1	0	0	0	0	0	0	0.97	0.97	0	0	0	0	0	0
6/14/2024 22:40	45802	HEGI_T2	47	44	-3	1.36	0.87	-0.49	0.44	0.35	0	0	0	0	0	0
6/14/2024 22:40	43802	SWIL_T1	0	0	0	0	0	0	0	-0.01	1	1	0	600	600	0
6/14/2024 22:40	52402	GRPA_T2	3	4	1	0.33	0.7	0.37	0	0	0	0	0	0	0	0
6/14/2024 22:40	16902	MECK_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
6/14/2024 22:41	40602	PIGR_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/14/2024 22:41	20403	ASHF_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
6/14/2024 22:41	15204	SFAR_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
6/14/2024 22:41	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:41	40802	EXCH_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
6/14/2024 22:41	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:41	67805	WLAN_T1	341	0	-341	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/14/2024 22:41	46101	MACI_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
6/14/2024 22:41	67605	WARW_T1	1	10	9	0.2	0.21	0.01	-1.21	-1.23	0	0	0	0	0	0
6/14/2024 22:41	42201	SHEN_T2	0	3	3	0	0.1	0.1	0.44	0.44	0	0	0	0	0	0
6/14/2024 22:41	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:41	56802	BENV_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
6/14/2024 22:41	56501	ROCK_T2	3	3	0	3.53	2.57	-0.96	-2.23	-2.3	0	0	0	0	0	0
6/14/2024 22:41	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:41	67803	WLAN_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
6/14/2024 22:42	55002	NEWP_T1	4	5	1	0.43	0.7	0.27	-0.19	-0.2	0	0	0	0	0	0
6/14/2024 22:42	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/14/2024 22:42	44703	MUNC_T2	3	3	0	1.03	0.4	-0.63	0	0	0	0	0	0	0	0
6/14/2024 22:42	61102	BERK_T5	0	0	0	0	0	0	0.96	0.93	1	1	0	300	300	0
6/14/2024 22:42	42503	ALTA_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
6/14/2024 22:42	56501	ROCK_T2	3	3	0	3.53	2.57	-0.96	-2.23	-2.3	0	0	0	0	0	0
6/14/2024 22:42	29402	BELT_T1	1	1	0	8.2	8.4	0.2	0	0	0	0	0	0	0	0
6/14/2024 22:42	44702	MUNC_T2	9	0	-9	0.16	0	-0.16	0	0	0	0	0	0	0	0
6/14/2024 22:42	66703	STRA_T1	40	14	-26	0.21	0.21	0	-0.12	-0.16	0	0	0	0	0	0
6/14/2024 22:42	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:42	58006	WCAR_T2	0	0	0	0	0	0	0.91	0.89	0	0	0	0	0	0
6/14/2024 22:42	20403	ASHF_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
6/14/2024 22:42	44701	MUNC_T2	23	0	-23	0.12	0	-0.12	-1.5	-1.5	0	0	0	0	0	0
6/14/2024 22:42	56801	BENV_T1	5	13	8	1.64	0.93	-0.71	-0.72	-0.73	1	1	0	600	600	0
6/14/2024 22:42	14404	SSLA_T1	1	1	0	5.1	5.4	0.3	0.04	0.04	0	0	0	0	0	0
6/14/2024 22:42	62607	ENGL_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/14/2024 22:42	16902	MECK_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
6/14/2024 22:42	62602	ENGL_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
6/14/2024 22:42	40602	PIGR_T1	1	1	0	1	0.8	-0.2	-0.01	-0.01	0	0	0	0	0	0
6/14/2024 22:42	60101	COCA_T1	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
6/14/2024 22:43	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:43	20603	GRWO_T2	25	32	7	0.3	0.32	0.02	0.36	0.36	0	0	0	0	0	0
6/14/2024 22:43	66505	SMAN_T2	0	0	0	0	0	0	0.58	0.6	2	2	0	1800	1800	0
6/14/2024 22:43	56802	BENV_T2	0	0	0	0	0	0	-1.15	-1.18	0	0	0	0	0	0
6/14/2024 22:43	52006	LING_T2	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
6/14/2024 22:43	52002	LING_T2	1	1	0	0.4	0.4	0	0.18	0.13	0	0	0	0	0	0
6/14/2024 22:43	67805	WLAN_T1	341	0	-341	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/14/2024 22:43	40504	CRES_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
6/14/2024 22:43	20601	GRWO_T2	37	106	69	0.15	0.26	0.11	0	0	0	0	0	0	0	0
6/14/2024 22:43	47401	PENS_T1	0	0	0	0	0	0	0.97	0.97	0	0	0	0	0	0
6/14/2024 22:43	67605	WARW_T1	1	10	9	0.2	0.21	0.01	-1.21	-1.23	0	0	0	0	0	0
6/14/2024 22:43	43302	WATS_T2	4	4	0	0.85	0.23	-0.62	0	0	0	0	0	0	0	0
6/14/2024 22:43	63401	HONY_T1	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
6/14/2024 22:43	43301	WATS_T2	1	1	0	0.2	0	-0.2	0.38	0.37	0	0	0	0	0	0
6/14/2024 22:43	67804	WLAN_T1	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
6/14/2024 22:43	40505	CRES_T1	3	3	0	5.33	5.63	0.3	0	0	0	0	0	0	0	0
6/14/2024 22:43	43304	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/14/2024 22:44	42902	MIDD_T2	0	0	0	0	0	0	-0.67	-0.62	0	0	0	0	0	0
6/14/2024 22:44	60803	BUCK_T1	13	8	-5	0.28	0.15	-0.13	-1.07	-1.08	1	1	0	600	600	0
6/14/2024 22:44	46206	DANV_T2	0	0	0	0	0	0	0.79	0.77	1	1	0	1200	1200	0
6/14/2024 22:44	12803	MICK_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/14/2024 22:44	43301	WATS_T2	1	1	0	0.2	0	-0.2	0.38	0.37	0	0	0	0	0	0
6/14/2024 22:44	56501	ROCK_T2	3	3	0	3.53	2.57	-0.96	-1.12	-1.15	0	0	0	0	0	0
6/14/2024 22:44	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:44	51003	NHAR_T1	0	0	0	0	0	0	-0.77	-0.79	0	0	0	0	0	0
6/14/2024 22:44	54201	PENN_T1	3	3	0	1.03	1.23	0.2	-0.62	-0.6	0	0	0	0	0	0
6/14/2024 22:44	23203	HIRU_T2	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
6/14/2024 22:44	43304	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/14/2024 22:44	51004	NHAR_T1	1	2	1	6.3	3.1	-3.2	0	0	0	0	0	0	0	0
6/14/2024 22:44	54203	PENN_T1	5	18	13	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
6/14/2024 22:44	58003	WCAR_T1	1	1	0	1.3	1.6	0.3	1.52	1.51	0	0	0	0	0	0
6/14/2024 22:44	51002	NHAR_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:44	42903	MIDD_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/14/2024 22:44	60801	BUCK_T1	4	1	-3	0.1	0.1	0	0	0	0	0	0	0	0	0
6/14/2024 22:44	47401	PENS_T1	0	0	0	0	0	0	0.97	0.97	0	0	0	0	0	0
6/14/2024 22:44	58001	WCAR_T1	4	4	0	0.48	0.95	0.47	0	0	0	0	0	0	0	0
6/14/2024 22:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:44	12801	MICK_T1	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
6/14/2024 22:44	64701	LITI_T1	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
6/14/2024 22:44	58401	MORO_T1	0	0	0	0	0	0	-0.8	-0.82	1	1	0	600	600	0
6/14/2024 22:44	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:44	51204	MTON_T2	0	0	0	0	0	0	-0.34	-0.35	1	1	0	600	600	0
6/14/2024 22:44	61102	BERK_T5	0	0	0	0	0	0	0.96	0.93	1	1	0	300	300	0
6/14/2024 22:44	53903	HALI_T2	2	1	-1	0.65	0.2	-0.45	-0.13	-0.14	0	0	0	0	0	0
6/14/2024 22:44	67201	TEHI_T1	0	0	0	0	0	0	-0.56	-0.57	1	1	0	900	900	0
6/14/2024 22:44	61304	EARL_T1	0	0	0	0	0	0	-0.72	-0.75	1	1	0	600	600	0
6/14/2024 22:44	52501	PROG_T1	0	0	0	0	0	0	1.34	1.33	2	2	0	600	600	0
6/14/2024 22:44	53902	HALI_T2	1	1	0	4.3	5.1	0.8	0	0	0	0	0	0	0	0
6/14/2024 22:44	12807	MICK_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/14/2024 22:44	24901	WHHA_T1	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
6/14/2024 22:44	21203	ECAR_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
6/14/2024 22:44	43302	WATS_T2	4	4	0	0.85	0.23	-0.62	0	0	0	0	0	0	0	0
6/14/2024 22:45	56504	ROCK_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
6/14/2024 22:45	61304	EARL_T1	0	0	0	0	0	0	-0.72	-0.75	1	1	0	600	600	0
6/14/2024 22:45	46203	DANV_T2	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
6/14/2024 22:45	46004	BERW_T2	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
6/14/2024 22:45	40602	PIGR_T1	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
6/14/2024 22:45	10801	CHHI_T1	0	0	0	0	0	0	-1.24	-1.26	2	2	0	1500	1500	0
6/14/2024 22:45	24205	PROV_T3	1	1	0	1.3	3.1	1.8	0	0	0	0	0	0	0	0
6/14/2024 22:45	53903	HALI_T2	1	2	1	0.2	1	0.8	-0.13	-0.14	0	0	0	0	0	0
6/14/2024 22:45	13503	MCMI_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
6/14/2024 22:45	56501	ROCK_T2	3	3	0	2.43	0.6	-1.83	0	0	0	0	0	0	0	0
6/14/2024 22:45	46101	MACI_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
6/14/2024 22:45	40802	EXCH_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
6/14/2024 22:45	60501	NMAN_T2	3	3	0	4.77	4.77	0	0	0	0	0	0	0	0	0
6/14/2024 22:45	24204	PROV_T3	2	2	0	2.95	2.85	-0.1	0	0	0	0	0	0	0	0
6/14/2024 22:45	24201	PROV_T3	1	2	1	6.7	3.5	-3.2	-1.29	-1.31	1	1	0	1200	1200	0
6/14/2024 22:45	24102	EHAZ_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
6/14/2024 22:45	53902	HALI_T2	1	1	0	4.6	5.2	0.6	0	0	0	0	0	0	0	0
6/14/2024 22:45	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:45	67605	WARW_T1	7	10	3	0.21	0.21	0	-2.41	-2.46	0	0	0	0	0	0
6/14/2024 22:45	60502	NMAN_T2	0	0	0	0	0	0	-0.98	-0.8	0	0	0	0	0	0
6/14/2024 22:45	24105	EHAZ_T1	4	4	0	5.93	5.83	-0.1	0	0	0	0	0	0	0	0
6/14/2024 22:45	42201	SHEN_T2	3	3	0	0.1	0.13	0.03	0.44	0.44	0	0	0	0	0	0
6/14/2024 22:46	10805	CHHI_T2	1	1	0	7.2	7.3	0.1	-1.95	-2.14	2	2	0	1200	1200	0
6/14/2024 22:46	64201	KINZ_T1	1	6	5	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
6/14/2024 22:46	51204	MTON_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:46	67602	WARW_T2	0	0	0	0	0	0	1.27	1.3	4	4	0	3000	3000	0
6/14/2024 22:46	67805	WLAN_T1	0	0	0	0	0	0	-1.34	-1.37	0	0	0	0	0	0
6/14/2024 22:46	15202	SFAR_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
6/14/2024 22:46	10801	CHHI_T1	0	0	0	0	0	0	-1.24	-1.26	2	2	0	1500	1500	0
6/14/2024 22:46	51202	MTON_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
6/14/2024 22:46	55101	WERT_T1	0	0	0	0	0	0	-1.43	-1.42	2	2	0	1800	1800	0
6/14/2024 22:46	58003	WCAR_T1	1	1	0	1.5	1.6	0.1	0.76	0.75	0	0	0	0	0	0
6/14/2024 22:46	58401	MORO_T1	0	0	0	0	0	0	-0.8	-0.82	1	1	0	600	600	0
6/14/2024 22:46	64204	KINZ_T1	1	20	19	0.8	0.22	-0.58	0	0	0	0	0	0	0	0
6/14/2024 22:46	58001	WCAR_T1	4	4	0	0.95	0.7	-0.25	0	0	0	0	0	0	0	0
6/14/2024 22:46	63304	GREE_T1	0	0	0	0	0	0	-1.5	-1.52	0	0	0	0	0	0
6/14/2024 22:46	46206	DANV_T2	0	0	0	0	0	0	0.79	0.77	1	1	0	1200	1200	0
6/14/2024 22:46	64203	KINZ_T1	0	0	0	0	0	0	0.43	0.38	0	0	0	0	0	0
6/14/2024 22:46	64202	KINZ_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
6/14/2024 22:46	14801	TREI_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
6/14/2024 22:47	55002	NEWP_T1	4	5	1	0.65	0.76	0.11	-0.19	-0.2	0	0	0	0	0	0
6/14/2024 22:47	24902	WHHA_T1	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
6/14/2024 22:47	42903	MIDD_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
6/14/2024 22:47	51109	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:47	59003	MIFF_T1	1	1	0	0.6	0.9	0.3	-0.45	-0.47	0	0	0	0	0	0
6/14/2024 22:47	22905	HARW_T1	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
6/14/2024 22:47	55101	WERT_T1	0	0	0	0	0	0	-1.43	-1.42	2	2	0	1800	1800	0
6/14/2024 22:47	50506	MECH_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
6/14/2024 22:47	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:47	52404	GRPA_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
6/14/2024 22:47	51101	CARL_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
6/14/2024 22:47	10103	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:47	67602	WARW_T2	0	0	0	0	0	0	0.64	0.65	2	2	0	1500	1500	0
6/14/2024 22:47	67505	WEWI_T1	0	0	0	0	0	0	0.12	0.09	1	1	0	900	900	0
6/14/2024 22:47	50701	SMEC_T1	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
6/14/2024 22:47	50502	MECH_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
6/14/2024 22:47	22903	HARW_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/14/2024 22:47	56501	ROCK_T2	3	3	0	2.43	0.6	-1.83	-1.12	-1.15	0	0	0	0	0	0
6/14/2024 22:47	51108	CARL_T1	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
6/14/2024 22:47	42902	MIDD_T2	0	0	0	0	0	0	-0.67	-0.62	0	0	0	0	0	0
6/14/2024 22:47	10205	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:47	50501	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:47	10105	ALLE_T3	3	10	7	0.7	0.9	0.2	0	0	0	0	0	0	0	0
6/14/2024 22:47	59002	MIFF_T1	5	6	1	0.62	0.78	0.16	0	0	0	0	0	0	0	0
6/14/2024 22:47	52403	GRPA_T2	0	2	2	0	0.1	0.1	0.28	0.26	0	0	0	0	0	0
6/14/2024 22:47	52401	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:47	52402	GRPA_T2	3	4	1	0.53	0.7	0.17	0	0	0	0	0	0	0	0
6/14/2024 22:47	52501	PROG_T1	0	0	0	0	0	0	0.67	0.66	1	1	0	300	300	0
6/14/2024 22:48	47401	PENS_T1	0	0	0	0	0	0	0.97	0.97	0	0	0	0	0	0
6/14/2024 22:48	50506	MECH_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/14/2024 22:48	43304	WATS_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
6/14/2024 22:48	45502	DERR_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
6/14/2024 22:48	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:48	43301	WATS_T2	0	1	1	0	0	0	0.38	0.37	0	0	0	0	0	0
6/14/2024 22:48	24901	WHHA_T1	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
6/14/2024 22:48	52006	LING_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
6/14/2024 22:48	50502	MECH_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
6/14/2024 22:48	43302	WATS_T2	3	4	1	0.17	0.23	0.06	0	0	0	0	0	0	0	0
6/14/2024 22:48	50501	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:48	40101	HUNT_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
6/14/2024 22:48	42903	MIDD_T2	2	2	0	0.15	0.3	0.15	-0.27	-0.26	0	0	0	0	0	0
6/14/2024 22:48	55101	WERT_T1	0	0	0	0	0	0	-1.43	-1.42	2	2	0	1800	1800	0
6/14/2024 22:48	58401	MORO_T1	0	0	0	0	0	0	-0.8	-0.82	1	1	0	600	600	0
6/14/2024 22:48	52002	LING_T2	1	1	0	0.4	0.4	0	0.18	0.13	0	0	0	0	0	0
6/14/2024 22:49	46102	MACI_T1	0	0	0	0	0	0	0.88	0.87	0	0	0	0	0	0
6/14/2024 22:49	52404	GRPA_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
6/14/2024 22:49	52403	GRPA_T2	0	2	2	0	0.1	0.1	0.28	0.26	0	0	0	0	0	0
6/14/2024 22:49	44701	MUNC_T2	0	0	0	0	0	0	-1.5	-1.5	0	0	0	0	0	0
6/14/2024 22:49	52402	GRPA_T2	3	4	1	0.53	0.7	0.17	0	0	0	0	0	0	0	0
6/14/2024 22:49	55101	WERT_T1	0	0	0	0	0	0	-1.43	-1.42	2	2	0	1800	1800	0
6/14/2024 22:49	42902	MIDD_T2	0	0	0	0	0	0	-0.67	-0.62	0	0	0	0	0	0
6/14/2024 22:49	50506	MECH_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
6/14/2024 22:49	23001	SAIO_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
6/14/2024 22:49	50502	MECH_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
6/14/2024 22:49	44703	MUNC_T2	2	3	1	0.45	0.27	-0.18	0	0	0	0	0	0	0	0
6/14/2024 22:49	42903	MIDD_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
6/14/2024 22:49	52002	LING_T2	1	1	0	0.4	0.4	0	0.35	0.27	0	0	0	0	0	0
6/14/2024 22:49	67602	WARW_T2	0	0	0	0	0	0	0.64	0.65	2	2	0	1500	1500	0
6/14/2024 22:49	50501	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:49	65003	NEFF_T2	0	0	0	0	0	0	-0.58	-0.71	1	1	0	600	600	0
6/14/2024 22:49	52401	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:49	45501	DERR_T2	0	0	0	0	0	0	0.2	0.19	1	1	0	600	600	0
6/14/2024 22:49	52006	LING_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
6/14/2024 22:50	53902	HALI_T2	1	1	0	4.6	5.2	0.6	0	0	0	0	0	0	0	0
6/14/2024 22:50	44902	SCOT_T2	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
6/14/2024 22:50	10103	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:50	45501	DERR_T2	0	0	0	0	0	0	0.2	0.19	1	1	0	600	600	0
6/14/2024 22:50	45402	WBLO_T2	21	29	8	0.21	0.24	0.03	-0.76	-0.77	0	0	0	0	0	0
6/14/2024 22:50	50505	MECH_T1	0	0	0	0	0	0	-2.14	-2.09	0	0	0	0	0	0
6/14/2024 22:50	50502	MECH_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
6/14/2024 22:50	55102	WERT_T2	0	0	0	0	0	0	-0.66	-0.76	1	1	0	600	600	0
6/14/2024 22:50	50501	MECH_T1	0	1	1	0	0.1	0.1	0.35	0.32	0	0	0	0	0	0
6/14/2024 22:50	10205	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:50	53903	HALI_T2	1	2	1	0.2	1	0.8	-0.13	-0.14	0	0	0	0	0	0
6/14/2024 22:50	10105	ALLE_T3	3	10	7	0.7	0.9	0.2	0	0	0	0	0	0	0	0
6/14/2024 22:50	67505	WEWI_T1	0	0	0	0	0	0	0.12	0.09	1	1	0	900	900	0
6/14/2024 22:50	46206	DANV_T2	0	0	0	0	0	0	0.79	0.77	1	1	0	1200	1200	0
6/14/2024 22:50	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:50	67602	WARW_T2	0	0	0	0	0	0	0.64	0.65	2	2	0	1500	1500	0
6/14/2024 22:51	40801	EXCH_T2	0	0	0	0	0	0	-0.4	-0.41	1	1	0	1200	1200	0
6/14/2024 22:51	57104	SPHI_T2	2	2	0	2.65	1.3	-1.35	-0.74	-0.77	0	0	0	0	0	0
6/14/2024 22:51	50701	SMEC_T1	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
6/14/2024 22:51	42201	SHEN_T2	3	3	0	0.1	0.13	0.03	0.44	0.44	0	0	0	0	0	0
6/14/2024 22:51	58701	ROSE_T2	0	0	0	0	0	0	-1.25	-1.27	1	1	0	600	600	0
6/14/2024 22:51	57101	SPHI_T2	6	6	0	0.13	0.58	0.45	0	0	0	0	0	0	0	0
6/14/2024 22:51	58705	ROSE_T2	5	5	0	1.94	2.18	0.24	0	0	0	0	0	0	0	0
6/14/2024 22:51	57103	SPHI_T2	0	0	0	0	0	0	-1.44	-1.5	0	0	0	0	0	0
6/14/2024 22:51	10801	CHHI_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	1500	1500	0
6/14/2024 22:51	57106	SPHI_T2	3	3	0	1.83	1.87	0.04	0	0	0	0	0	0	0	0
6/14/2024 22:52	46206	DANV_T2	0	0	0	0	0	0	0.77	0.73	1	1	0	1200	1200	0
6/14/2024 22:52	56501	ROCK_T2	3	3	0	2.43	0.6	-1.83	-1.15	-1.16	0	0	0	0	0	0
6/14/2024 22:52	55101	WERT_T1	0	0	0	0	0	0	-1.42	-1.41	2	2	0	1800	1800	0
6/14/2024 22:52	52006	LING_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
6/14/2024 22:52	49803	UNIV_T1	0	0	0	0	0	0	-1.08	-1.1	0	0	0	0	0	0
6/14/2024 22:52	64904	MILL_T1	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
6/14/2024 22:52	45602	WOOL_T1	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
6/14/2024 22:52	52002	LING_T2	1	1	0	0.4	0.4	0	0.13	0.13	0	0	0	0	0	0
6/14/2024 22:52	67605	WARW_T1	7	10	3	0.21	0.21	0	-1.23	-1.09	0	0	0	0	0	0
6/14/2024 22:53	50506	MECH_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
6/14/2024 22:53	52402	GRPA_T2	3	4	1	0.53	0.7	0.17	0	0	0	0	0	0	0	0
6/14/2024 22:53	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:53	50502	MECH_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
6/14/2024 22:53	46803	HEPB_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
6/14/2024 22:53	52401	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:53	52404	GRPA_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
6/14/2024 22:53	52403	GRPA_T2	0	2	2	0	0.1	0.1	0.26	0.25	0	0	0	0	0	0
6/14/2024 22:53	43202	MVIL_T2	72	89	17	0.61	0.8	0.19	-1.36	-1.37	0	0	0	0	0	0
6/14/2024 22:53	45501	DERR_T2	0	0	0	0	0	0	0.19	0.23	1	1	0	600	600	0
6/14/2024 22:53	50501	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/14/2024 22:54	59003	MIFF_T1	1	1	0	0.6	0.9	0.3	-0.47	-0.5	0	0	0	0	0	0
6/14/2024 22:54	59002	MIFF_T1	5	6	1	0.62	0.78	0.16	0	0	0	0	0	0	0	0
6/14/2024 22:54	45402	WBLO_T2	21	29	8	0.21	0.24	0.03	-0.77	-0.78	0	0	0	0	0	0
6/14/2024 22:54	45602	WOOL_T1	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
6/14/2024 22:54	45702	LIND_T2	0	0	0	0	0	0	-0.48	-0.45	0	0	0	0	0	0
6/14/2024 22:54	46206	DANV_T2	0	0	0	0	0	0	0.77	0.73	1	1	0	1200	1200	0
6/14/2024 22:55	46801	HEPB_T2	0	0	0	0	0	0	0.72	0.71	0	0	0	0	0	0
6/14/2024 22:55	44701	MUNC_T2	0	0	0	0	0	0	-1.5	-1.51	0	0	0	0	0	0
6/14/2024 22:55	43202	MVIL_T2	72	89	17	0.61	0.8	0.19	-0.68	-0.68	0	0	0	0	0	0
6/14/2024 22:55	44703	MUNC_T2	2	3	1	0.45	0.27	-0.18	0	0	0	0	0	0	0	0
6/14/2024 22:55	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:56	40701	FFLD_T1	4	25	21	0.1	0.17	0.07	0	0	0	0	0	0	0	0
6/14/2024 22:56	45402	WBLO_T2	21	29	8	0.21	0.24	0.03	-0.77	-0.78	0	0	0	0	0	0
6/14/2024 22:56	43201	MVIL_T2	0	1	1	0	0	0	-0.36	-0.37	0	0	0	0	0	0
6/14/2024 22:56	40703	FFLD_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/14/2024 22:56	43202	MVIL_T2	72	89	17	0.61	0.8	0.19	-0.68	-0.68	0	0	0	0	0	0
6/14/2024 22:56	46801	HEPB_T2	0	0	0	0	0	0	0.72	0.71	0	0	0	0	0	0
6/14/2024 22:56	46803	HEPB_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
6/14/2024 22:56	40702	FFLD_T1	1	39	38	0.2	0.16	-0.04	-0.99	-1.11	1	1	0	1200	1200	0
6/14/2024 22:57	43202	MVIL_T2	72	89	17	0.61	0.8	0.19	-0.68	-0.68	0	0	0	0	0	0
6/14/2024 22:57	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/14/2024 22:59	46506	LOHA_T1	0	1	1	0	0.1	0.1	-0.34	-0.35	0	0	0	0	0	0
6/14/2024 22:59	46504	LOHA_T1	2	2	0	0.35	0.8	0.45	0	0	0	0	0	0	0	0
6/14/2024 23:00	45602	WOOL_T1	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
6/14/2024 23:30	46101	MACI_T2	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
6/14/2024 23:47	56501	ROCK_T2	3	7	4	3	0.43	-2.57	-1.18	-1.19	0	0	0	0	0	0
6/14/2024 23:49	59202	THOM_T1	254	297	43	0.27	0.35	0.08	0	0	0	0	0	0	0	0
6/14/2024 23:49	59201	THOM_T1	16	18	2	0.24	0.36	0.12	0	0	0	0	0	0	0	0
6/15/2024 1:06	65901	SAKR_T2	1	1	0	8.5	8.5	0	-1.15	-1.16	1	1	0	900	900	0
6/15/2024 5:07	61701	ELIZ_T1	1	1	0	5.3	5.3	0	0.38	0.36	0	0	0	0	0	0
6/15/2024 6:22	29402	BELT_T1	1	1	0	8	8.2	0.2	0	0	0	0	0	0	0	0
6/15/2024 6:22	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/15/2024 6:26	42501	ALTA_T2	0	0	0	0	0	0	0.12	0.13	1	1	0	600	600	0
6/15/2024 6:35	67605	WARW_T1	30	20	-10	0.56	0.59	0.03	-1.21	-1.18	0	0	0	0	0	0
6/15/2024 6:35	15203	SFAR_T2	65	38	-27	0.17	0.12	-0.05	-1.31	-1.31	0	0	0	0	0	0
6/15/2024 6:36	56601	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 6:40	14204	EALL_T2	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
6/15/2024 6:41	56801	BENV_T1	24	25	1	0.93	0.72	-0.21	0	0	0	0	0	0	0	0
6/15/2024 6:41	56803	BENV_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
6/15/2024 6:41	11901	ETEX_T2	0	0	0	0	0	0	0.37	0.33	0	0	0	0	0	0
6/15/2024 6:41	16301	ALPA_T1	1	1	0	0.2	0.1	-0.1	-0.48	-0.47	0	0	0	0	0	0
6/15/2024 6:42	11904	ETEX_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
6/15/2024 6:43	51402	LYKE_T1	18	3	-15	0.13	0.1	-0.03	-0.94	-0.85	0	0	0	0	0	0
6/15/2024 6:43	11901	ETEX_T2	0	0	0	0	0	0	0.37	0.33	0	0	0	0	0	0
6/15/2024 6:49	66103	REAM_T2	0	0	0	0	0	0	1.31	1.32	0	0	0	0	0	0
6/15/2024 6:49	40302	TAMA_T3	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
6/15/2024 6:49	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 6:56	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 6:56	62102	ELAN_T1	0	0	0	0	0	0	0.51	0.65	0	0	0	0	0	0
6/15/2024 7:04	47401	PENS_T1	0	0	0	0	0	0	1.53	1.63	0	0	0	0	0	0
6/15/2024 7:08	67605	WARW_T1	15	15	0	0.53	0.58	0.05	-1.13	-1.1	0	0	0	0	0	0
6/15/2024 7:09	29402	BELT_T1	1	1	0	7.8	8.1	0.3	0	0	0	0	0	0	0	0
6/15/2024 7:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/15/2024 7:11	12006	HATF_T1	0	0	0	0	0	0	0.5	0.56	0	0	0	0	0	0
6/15/2024 7:19	14702	TREX_T2	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
6/15/2024 7:19	15203	SFAR_T2	20	2	-18	0.12	0.15	0.03	-1.27	-1.24	0	0	0	0	0	0
6/15/2024 7:20	15203	SFAR_T2	20	2	-18	0.12	0.15	0.03	-2.54	-2.48	0	0	0	0	0	0
6/15/2024 7:21	64101	REFR_T1	2	0	-2	0.1	0	-0.1	0.17	0.2	0	0	0	0	0	0
6/15/2024 7:21	14702	TREX_T2	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
6/15/2024 7:21	15203	SFAR_T2	20	2	-18	0.12	0.15	0.03	-1.24	-1.21	0	0	0	0	0	0
6/15/2024 7:23	14702	TREX_T2	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
6/15/2024 7:24	58006	WCAR_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
6/15/2024 7:24	14702	TREX_T2	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
6/15/2024 7:24	67605	WARW_T1	15	13	-2	0.58	0.46	-0.12	-1.1	-1.08	0	0	0	0	0	0
6/15/2024 7:24	29402	BELT_T1	1	1	0	8.1	8	-0.1	0	0	0	0	0	0	0	0
6/15/2024 7:31	43202	MVIL_T2	25	20	-5	0.16	0.17	0.01	-0.74	-0.74	0	0	0	0	0	0
6/15/2024 7:41	22002	BOHE_T1	1	0	-1	0.1	0	-0.1	0.35	0.37	0	0	0	0	0	0
6/15/2024 7:41	22003	BOHE_T1	30	28	-2	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
6/15/2024 7:41	22001	BOHE_T1	9	1	-8	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
6/15/2024 7:48	24204	PROV_T3	1	1	0	6.2	6.4	0.2	0	0	0	0	0	0	0	0
6/15/2024 7:48	24201	PROV_T3	1	1	0	7.1	7.1	0	-0.03	-0.02	0	0	0	0	0	0
6/15/2024 7:52	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 7:52	20403	ASHF_T2	0	0	0	0	0	0	0.47	0.36	0	0	0	0	0	0
6/15/2024 7:53	56802	BENV_T2	1	0	-1	0.1	0	-0.1	-2.73	-2.67	0	0	0	0	0	0
6/15/2024 7:53	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 7:53	20403	ASHF_T2	0	0	0	0	0	0	0.23	0.18	0	0	0	0	0	0
6/15/2024 7:54	20401	ASHF_T2	0	1	1	0	0.1	0.1	-0.27	-0.23	0	0	0	0	0	0
6/15/2024 7:55	51603	DUKE_T1	0	0	0	0	0	0	-3.14	-2.98	0	0	0	0	0	0
6/15/2024 7:55	56802	BENV_T2	1	0	-1	0.1	0	-0.1	-1.37	-1.34	0	0	0	0	0	0
6/15/2024 7:56	51603	DUKE_T1	0	0	0	0	0	0	-1.57	-1.49	0	0	0	0	0	0
6/15/2024 7:59	51603	DUKE_T1	0	0	0	0	0	0	-1.57	-1.49	0	0	0	0	0	0
6/15/2024 8:01	51402	LYKE_T1	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
6/15/2024 8:09	67605	WARW_T1	2	2	0	0.25	0.1	-0.15	-1.03	-1.01	0	0	0	0	0	0
6/15/2024 8:14	46801	HEPB_T2	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/15/2024 8:24	20403	ASHF_T2	0	0	0	0	0	0	0.17	0.23	0	0	0	0	0	0
6/15/2024 8:28	21203	ECAR_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
6/15/2024 8:35	66502	SMAN_T2	0	0	0	0	0	0	-0.3	-0.24	0	0	0	0	0	0
6/15/2024 8:38	67605	WARW_T1	0	0	0	0	0	0	-0.98	-0.96	0	0	0	0	0	0
6/15/2024 8:39	22001	BOHE_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/15/2024 8:39	22003	BOHE_T1	8	4	-4	0.51	1.1	0.59	0	0	0	0	0	0	0	0
6/15/2024 8:39	22002	BOHE_T1	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
6/15/2024 8:44	47001	HUGH_T2	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
6/15/2024 8:47	47001	HUGH_T2	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
6/15/2024 8:51	24201	PROV_T3	1	1	0	7.2	6.8	-0.4	-3.9	-3.86	3	3	0	3600	3600	0
6/15/2024 8:51	24204	PROV_T3	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
6/15/2024 8:56	24902	WHHA_T1	2	2	0	0.45	0.7	0.25	0.59	0.6	0	0	0	0	0	0
6/15/2024 8:56	46801	HEPB_T2	0	2	2	0	0.2	0.2	0.69	0.71	0	0	0	0	0	0
6/15/2024 8:59	40101	HUNT_T2	0	0	0	0	0	0	-0.63	-0.61	0	0	0	0	0	0
6/15/2024 9:00	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 9:00	13503	MCMI_T2	80	153	73	0.21	0.26	0.05	-1.82	-1.8	0	0	0	0	0	0
6/15/2024 9:00	46801	HEPB_T2	0	2	2	0	0.2	0.2	0.69	0.71	0	0	0	0	0	0
6/15/2024 9:01	46801	HEPB_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/15/2024 9:01	13503	MCMI_T2	80	153	73	0.21	0.26	0.05	-0.91	-0.9	0	0	0	0	0	0
6/15/2024 9:01	46803	HEPB_T2	0	1	1	0	0.1	0.1	0.48	0.49	0	0	0	0	0	0
6/15/2024 9:02	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 9:05	56501	ROCK_T2	0	0	0	0	0	0	0.36	-2.13	0	0	0	0	0	0
6/15/2024 9:07	56501	ROCK_T2	0	0	0	0	0	0	-1.07	-1.04	0	0	0	0	0	0
6/15/2024 9:11	20403	ASHF_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
6/15/2024 9:11	56802	BENV_T2	0	0	0	0	0	0	-1.34	-1.32	0	0	0	0	0	0
6/15/2024 9:12	20403	ASHF_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
6/15/2024 9:13	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 9:15	39601	LNFD_T1	0	1	1	0	1.1	1.1	0	0	1	1	0	900	900	0
6/15/2024 9:24	15702	TANN_T2	0	0	0	0	0	0	-0.26	-0.31	0	0	0	0	0	0
6/15/2024 9:24	15703	TANN_T2	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
6/15/2024 9:26	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 9:28	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 9:28	63804	HEMP_T1	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
6/15/2024 9:28	63801	HEMP_T1	0	4	4	0	0.18	0.18	-0.94	-0.33	1	1	0	900	900	0
6/15/2024 9:30	40101	HUNT_T2	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
6/15/2024 9:31	40101	HUNT_T2	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
6/15/2024 9:35	66504	SMAN_T2	0	0	0	0	0	0	-0.07	-2.54	0	2	2	0	2400	2400
6/15/2024 9:36	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.26	-0.31	0	0	0	0	0	0
6/15/2024 9:36	15703	TANN_T2	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
6/15/2024 9:37	66504	SMAN_T2	0	0	0	0	0	0	-1.27	-1.33	1	1	0	1200	1200	0
6/15/2024 9:40	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.31	-0.28	0	0	0	0	0	0
6/15/2024 9:40	15703	TANN_T2	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
6/15/2024 9:42	24902	WHHA_T1	2	2	0	1.15	0.5	-0.65	0.6	0.61	0	0	0	0	0	0
6/15/2024 9:43	11507	FREE_T2	2	3	1	0.95	0.3	-0.65	1.04	0.96	0	0	0	0	0	0
6/15/2024 9:47	39601	LNFD_T1	1	1	0	1.1	0.7	-0.4	0	0	1	1	0	900	900	0
6/15/2024 9:50	56501	ROCK_T2	3	2	-1	3.33	2.95	-0.38	-1.06	-1.01	0	0	0	0	0	0
6/15/2024 9:51	56501	ROCK_T2	3	2	-1	3.33	2.95	-0.38	-1.06	-1.01	0	0	0	0	0	0
6/15/2024 9:52	56501	ROCK_T2	3	2	-1	3.33	2.95	-0.38	-1.01	-0.97	0	0	0	0	0	0
6/15/2024 9:53	56501	ROCK_T2	3	2	-1	3.33	2.95	-0.38	-2.02	-1.94	0	0	0	0	0	0
6/15/2024 10:00	39601	LNFD_T1	1	1	0	0.9	0	-0.9	0	0	1	1	0	900	900	0
6/15/2024 10:00	57601	RUTH_T2	0	0	0	0	0	0	-1.4	-1.36	1	1	0	900	900	0
6/15/2024 10:00	40602	PIGR_T1	1	1	0	1.3	1.3	0	0	0	1	1	0	600	600	0
6/15/2024 10:00	15703	TANN_T2	1	1	0	5.8	6.3	0.5	0	0	0	0	0	0	0	0
6/15/2024 10:00	40505	CRES_T1	3	3	0	4.13	4.13	0	0.63	0.65	0	0	0	0	0	0
6/15/2024 10:00	53502	EVIL_T2	0	0	0	0	0	0	0.95	0.97	0	0	0	0	0	0
6/15/2024 10:00	66502	SMAN_T2	0	0	0	0	0	0	-0.03	0.11	0	0	0	0	0	0
6/15/2024 10:00	15702	TANN_T2	1	0	-1	0.1	0	-0.1	-0.28	-0.27	0	0	0	0	0	0
6/15/2024 10:00	67605	WARW_T1	1	1	0	0.8	0.9	0.1	-0.9	-0.88	0	0	0	0	0	0
6/15/2024 10:00	67502	WEWI_T2	0	0	0	0	0	0	-1.2	-1.2	1	1	0	900	900	0
6/15/2024 10:00	10602	BLGL_T2	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
6/15/2024 10:03	15604	NSTR_T1	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
6/15/2024 10:05	15602	NSTR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 10:05	15601	NSTR_T2	3	0	-3	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/15/2024 10:05	15603	NSTR_T2	1	0	-1	0.3	0	-0.3	-0.58	-0.57	0	0	0	0	0	0
6/15/2024 10:06	15604	NSTR_T1	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
6/15/2024 10:07	66504	SMAN_T2	0	0	0	0	0	0	-2.54	-2.46	2	2	0	2400	2400	0
6/15/2024 10:07	66502	SMAN_T2	0	0	0	0	0	0	0.11	0	0	0	0	0	0	0
6/15/2024 10:07	15703	TANN_T2	1	1	0	5.8	6.3	0.5	0	0	0	0	0	0	0	0
6/15/2024 10:07	15702	TANN_T2	1	0	-1	0.1	0	-0.1	-0.27	-0.28	0	0	0	0	0	0
6/15/2024 10:07	67605	WARW_T1	1	1	0	0.8	0.9	0.1	-0.88	-0.87	0	0	0	0	0	0
6/15/2024 10:08	20401	ASHF_T2	0	1	1	0	0	0	-0.12	-0.11	0	0	0	0	0	0
6/15/2024 10:08	29402	BELT_T1	27	31	4	0.7	0.62	-0.08	0	0	0	0	0	0	0	0
6/15/2024 10:08	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	2	2	0	1800	1800	0
6/15/2024 10:08	67603	WARW_T1	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
6/15/2024 10:08	67605	WARW_T1	1	1	0	0.8	0.9	0.1	-0.88	-0.87	0	0	0	0	0	0
6/15/2024 10:08	20403	ASHF_T2	1	1	0	0.3	0.2	-0.1	0.73	0.77	0	0	0	0	0	0
6/15/2024 10:08	67503	WEWI_T2	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
6/15/2024 10:08	15702	TANN_T2	1	0	-1	0.1	0	-0.1	-0.27	-0.28	0	0	0	0	0	0
6/15/2024 10:08	15703	TANN_T2	1	1	0	5.8	6.3	0.5	0	0	0	0	0	0	0	0
6/15/2024 10:09	40302	TAMA_T3	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
6/15/2024 10:09	10801	CHHI_T1	3	2	-1	0.6	0.3	-0.3	-1.17	-1.05	2	2	0	1500	1500	0
6/15/2024 10:09	45501	DERR_T2	0	0	0	0	0	0	0.06	0.06	1	1	0	600	600	0
6/15/2024 10:09	66504	SMAN_T2	0	0	0	0	0	0	-1.27	-1.23	1	1	0	1200	1200	0
6/15/2024 10:09	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 10:10	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 10:10	20403	ASHF_T2	1	1	0	0.3	0.2	-0.1	0.36	0.39	0	0	0	0	0	0
6/15/2024 10:10	16103	BING_T2	0	1	1	0	0.3	0.3	-0.63	-0.61	2	2	0	1500	1500	0
6/15/2024 10:10	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 10:10	67605	WARW_T1	1	1	0	0.8	0.9	0.1	-0.88	-0.87	0	0	0	0	0	0
6/15/2024 10:10	45501	DERR_T2	0	0	0	0	0	0	0.06	0.06	1	1	0	600	600	0
6/15/2024 10:11	16301	ALPA_T1	1	1	0	0.1	0.3	0.2	-0.06	-0.04	0	0	0	0	0	0
6/15/2024 10:11	29402	BELT_T1	27	31	4	0.7	0.62	-0.08	0	0	0	0	0	0	0	0
6/15/2024 10:11	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 10:11	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	900	900	0
6/15/2024 10:12	46803	HEPB_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/15/2024 10:12	52403	GRPA_T2	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
6/15/2024 10:12	46801	HEPB_T2	2	2	0	0.15	0.25	0.1	0.76	0.78	0	0	0	0	0	0
6/15/2024 10:13	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 10:13	45501	DERR_T2	0	0	0	0	0	0	0.06	0.06	1	1	0	600	600	0
6/15/2024 10:15	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 10:15	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 10:15	46803	HEPB_T2	1	1	0	0.4	0.7	0.3	0.52	0.53	0	0	0	0	0	0
6/15/2024 10:15	13503	MCMI_T2	3	181	178	0.6	0.36	-0.24	-0.12	-0.87	0	0	0	0	0	0
6/15/2024 10:15	46801	HEPB_T2	2	2	0	0.25	0.25	0	0.76	0.78	0	0	0	0	0	0
6/15/2024 10:18	46801	HEPB_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
6/15/2024 10:18	56504	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/15/2024 10:18	46803	HEPB_T2	1	1	0	0.4	0.7	0.3	0.52	0.53	0	0	0	0	0	0
6/15/2024 10:18	56501	ROCK_T2	1	2	1	0.2	0.3	0.1	-0.97	-0.95	0	0	0	0	0	0
6/15/2024 10:19	13503	MCMI_T2	3	181	178	0.6	0.36	-0.24	-0.23	-1.74	0	0	0	0	0	0
6/15/2024 10:20	24204	PROV_T3	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
6/15/2024 10:20	13503	MCMI_T2	3	181	178	0.6	0.36	-0.24	-0.12	-0.87	0	0	0	0	0	0
6/15/2024 10:20	24201	PROV_T3	1	1	0	6.5	6.8	0.3	-1.21	-1.2	1	1	0	1200	1200	0
6/15/2024 10:20	56501	ROCK_T2	1	2	1	0.2	0.3	0.1	-0.97	-0.95	0	0	0	0	0	0
6/15/2024 10:20	56504	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/15/2024 10:21	56504	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/15/2024 10:21	24201	PROV_T3	1	1	0	6.5	6.8	0.3	-1.21	-1.2	1	1	0	1200	1200	0
6/15/2024 10:21	24204	PROV_T3	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
6/15/2024 10:21	56501	ROCK_T2	1	2	1	0.2	0.3	0.1	-2.91	-2.85	0	0	0	0	0	0
6/15/2024 10:22	56504	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/15/2024 10:22	56501	ROCK_T2	1	2	1	0.2	0.3	0.1	-0.95	-0.93	0	0	0	0	0	0
6/15/2024 10:24	43202	MVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/15/2024 10:24	43201	MVIL_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
6/15/2024 10:25	60801	BUCK_T1	0	0	0	0	0	0	-0.76	-0.75	1	1	0	600	600	0
6/15/2024 10:25	24902	WHHA_T1	3	2	-1	0.57	0.75	0.18	0.62	0.62	0	0	0	0	0	0
6/15/2024 10:26	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 10:27	21203	ECAR_T1	2	2	0	0.6	0.7	0.1	0.52	0.53	0	0	0	0	0	0
6/15/2024 10:27	41502	FAIR_T2	0	0	0	0	0	0	-1.57	-1.56	1	1	0	900	900	0
6/15/2024 10:27	20601	GRWO_T2	0	1	1	0	0.2	0.2	-0.18	-0.16	0	0	0	0	0	0
6/15/2024 10:28	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 10:28	40101	HUNT_T2	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
6/15/2024 10:29	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
6/15/2024 10:29	63801	HEMP_T1	0	1	1	0	0.2	0.2	-0.91	-0.87	1	1	0	900	900	0
6/15/2024 10:29	20601	GRWO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/15/2024 10:29	20603	GRWO_T2	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
6/15/2024 10:29	40101	HUNT_T2	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
6/15/2024 10:30	20603	GRWO_T2	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
6/15/2024 10:30	20601	GRWO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/15/2024 10:30	52403	GRPA_T2	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
6/15/2024 10:31	63801	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/15/2024 10:31	63804	HEMP_T1	1	1	0	5.7	5.9	0.2	-0.05	-0.01	0	0	0	0	0	0
6/15/2024 10:32	25402	LAHA_T2	1	1	0	0.2	0.2	0	-0.27	-0.54	0	0	0	0	0	0
6/15/2024 10:34	40602	PIGR_T1	1	1	0	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
6/15/2024 10:34	64203	KINZ_T1	0	0	0	0	0	0	0.42	0.39	2	2	0	900	900	0
6/15/2024 10:34	64101	REFR_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
6/15/2024 10:34	64204	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/15/2024 10:34	65001	NEFF_T2	0	0	0	0	0	0	-0.65	-0.64	1	1	0	1200	1200	0
6/15/2024 10:34	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 10:36	64101	REFR_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
6/15/2024 10:37	64101	REFR_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
6/15/2024 10:38	56801	BENV_T1	5	5	0	0.64	0.82	0.18	-0.63	-0.61	1	1	0	600	600	0
6/15/2024 10:38	67203	TEHI_T1	0	0	0	0	0	0	1.13	1.04	1	1	0	900	900	0
6/15/2024 10:38	56803	BENV_T1	1	1	0	2.2	0.5	-1.7	0	0	0	0	0	0	0	0
6/15/2024 10:39	66703	STNA_T1	0	0	0	0	0	0	0.23	-0.84	0	0	0	0	0	0
6/15/2024 10:40	56801	BENV_T1	5	5	0	0.64	0.82	0.18	-0.63	-0.61	1	1	0	600	600	0
6/15/2024 10:40	56803	BENV_T1	1	1	0	2.2	0.5	-1.7	0	0	0	0	0	0	0	0
6/15/2024 10:41	45502	DERR_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
6/15/2024 10:42	56802	BENV_T2	0	0	0	0	0	0	-1.24	-1.22	0	0	0	0	0	0
6/15/2024 10:43	47001	HUGH_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
6/15/2024 10:44	40901	JESH_T1	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
6/15/2024 10:44	40101	HUNT_T2	0	0	0	0	0	0	-0.49	-0.47	0	0	0	0	0	0
6/15/2024 10:44	40902	JESH_T1	0	0	0	0	0	0	-1.23	-1.41	1	1	0	600	600	0
6/15/2024 10:45	40901	JESH_T1	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
6/15/2024 10:45	40902	JESH_T1	0	0	0	0	0	0	-1.23	-1.41	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/15/2024 10:46	12701	MACU_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
6/15/2024 10:46	18502	CANA_T2	7	0	-7	0.74	0	-0.74	0	0.07	0	0	0	0	0	0
6/15/2024 10:46	25502	MADI_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
6/15/2024 10:46	25503	MADI_T1	6	6	0	0.38	0.47	0.09	-0.83	-0.83	0	0	0	0	0	0
6/15/2024 10:46	47001	HUGH_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
6/15/2024 10:46	25501	MADI_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/15/2024 10:50	58401	MORO_T1	0	1	1	0	0	0	-1.57	-1.53	2	2	0	1200	1200	0
6/15/2024 10:54	67605	WARW_T1	1	6	5	0.9	0.27	-0.63	-0.84	-0.82	0	0	0	0	0	0
6/15/2024 10:54	10801	CHHI_T1	2	1	-1	0.2	0.1	-0.1	-1.07	-1.05	2	2	0	1500	1500	0
6/15/2024 10:54	10805	CHHI_T2	1	1	0	8.9	8.3	-0.6	-0.83	-1.18	0	1	1	0	600	600
6/15/2024 10:54	60803	BUCK_T1	0	0	0	0	0	0	-0.99	-0.98	1	1	0	600	600	0
6/15/2024 10:55	20403	ASHF_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
6/15/2024 10:55	20401	ASHF_T2	2	3	1	0.4	0.4	0	0	0	0	0	0	0	0	0
6/15/2024 10:55	60803	BUCK_T1	0	0	0	0	0	0	-0.99	-0.98	1	1	0	600	600	0
6/15/2024 10:57	60803	BUCK_T1	0	0	0	0	0	0	-1.98	-1.96	2	2	0	1200	1200	0
6/15/2024 10:57	20403	ASHF_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
6/15/2024 10:57	20401	ASHF_T2	2	3	1	0.4	0.4	0	0	0	0	0	0	0	0	0
6/15/2024 10:59	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	-0.04	-0.04	0	0	0	0	0	0
6/15/2024 10:59	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 10:59	41501	FAIR_T2	0	0	0	0	0	0	-1.1	-1.09	1	1	0	600	600	0
6/15/2024 11:02	59301	MCAL_T1	0	1	1	0	0.3	0.3	-1.27	-1.2	0	0	0	0	0	0
6/15/2024 11:02	18502	CANA_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/15/2024 11:04	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/15/2024 11:04	64802	MONE_T2	0	2	2	0	0.55	0.55	-0.43	-0.41	0	0	0	0	0	0
6/15/2024 11:05	54203	PENN_T1	4	6	2	0.4	0.67	0.27	0	0	0	0	0	0	0	0
6/15/2024 11:05	55002	NEWP_T1	1	4	3	1.7	0.9	-0.8	-0.25	-0.24	0	0	0	0	0	0
6/15/2024 11:05	54201	PENN_T1	3	24	21	1.13	0.38	-0.75	-1.4	-1.92	0	0	0	0	0	0
6/15/2024 11:06	58001	WCAR_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/15/2024 11:06	58003	WCAR_T1	1	2	1	0.6	0.6	0	0.08	0.1	1	1	0	600	600	0
6/15/2024 11:06	55002	NEWP_T1	1	4	3	1.7	0.9	-0.8	-0.25	-0.24	0	0	0	0	0	0
6/15/2024 11:07	58001	WCAR_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/15/2024 11:07	54201	PENN_T1	3	24	21	1.13	0.38	-0.75	-1.92	-1.92	0	0	0	0	0	0
6/15/2024 11:07	54203	PENN_T1	4	6	2	0.4	0.67	0.27	0	0	0	0	0	0	0	0
6/15/2024 11:07	67603	WARW_T1	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
6/15/2024 11:07	67605	WARW_T1	1	6	5	0.6	0.18	-0.42	0	0	0	0	0	0	0	0
6/15/2024 11:07	58003	WCAR_T1	1	2	1	0.6	0.6	0	0.1	0.13	1	1	0	600	600	0
6/15/2024 11:08	56803	BENV_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/15/2024 11:08	67601	WARW_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
6/15/2024 11:08	66703	STRA_T1	0	0	0	0	0	0	-0.83	-0.79	0	0	0	0	0	0
6/15/2024 11:08	56801	BENV_T1	5	11	6	0.62	0.48	-0.14	-1.19	-1.15	2	2	0	1200	1200	0
6/15/2024 11:08	67605	WARW_T1	1	6	5	0.6	0.18	-0.42	-0.82	-0.81	0	0	0	0	0	0
6/15/2024 11:09	56803	BENV_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/15/2024 11:09	16103	BING_T2	1	2	1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/15/2024 11:09	16101	BING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/15/2024 11:09	56801	BENV_T1	5	11	6	0.62	0.48	-0.14	-0.59	-0.57	1	1	0	600	600	0
6/15/2024 11:09	16102	BING_T2	0	2	2	0	0.3	0.3	0.64	0.74	0	0	0	0	0	0
6/15/2024 11:10	56803	BENV_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/15/2024 11:10	61801	EELI_T2	0	0	0	0	0	0	-0.54	-0.53	1	1	0	600	600	0
6/15/2024 11:10	67901	WNHO_T2	8	55	47	0.73	0.33	-0.4	-0.09	-0.09	0	0	0	0	0	0
6/15/2024 11:10	67902	WNHO_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/15/2024 11:10	61802	EELI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 11:10	29402	BELT_T1	4	6	2	2.65	2.1	-0.55	0	0	0	0	0	0	0	0
6/15/2024 11:10	56801	BENV_T1	5	11	6	0.62	0.48	-0.14	-1.19	-1.15	2	2	0	1200	1200	0
6/15/2024 11:11	56803	BENV_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/15/2024 11:11	56801	BENV_T1	5	11	6	0.62	0.48	-0.14	-1.78	-1.72	3	3	0	1800	1800	0
6/15/2024 11:12	10805	CHHI_T2	1	1	0	8.7	8.3	-0.4	-1.18	-1.24	1	1	0	600	600	0
6/15/2024 11:13	10801	CHHI_T1	1	2	1	0.1	0.15	0.05	-1.05	-1	2	2	0	1500	1500	0
6/15/2024 11:13	63801	HEMP_T1	0	3	3	0	0.13	0.13	-0.83	-0.45	1	1	0	900	900	0
6/15/2024 11:13	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
6/15/2024 11:14	63304	GREE_T1	0	0	0	0	0	0	-2.44	-2.37	0	0	0	0	0	0
6/15/2024 11:15	63304	GREE_T1	0	0	0	0	0	0	-2.44	-2.37	0	0	0	0	0	0
6/15/2024 11:18	18502	CANA_T2	0	1	1	0	0	0	0.06	0.04	0	0	0	0	0	0
6/15/2024 11:19	40602	PIGR_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
6/15/2024 11:19	40603	PIGR_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/15/2024 11:20	52403	GRPA_T2	0	2	2	0	0.25	0.25	-0.33	-0.32	0	0	0	0	0	0
6/15/2024 11:21	59202	THOM_T1	0	7	7	0	0.29	0.29	0	0	0	0	0	0	0	0
6/15/2024 11:21	55002	NEWP_T1	4	5	1	0.9	0.28	-0.62	-0.12	-0.11	0	0	0	0	0	0
6/15/2024 11:21	59201	THOM_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
6/15/2024 11:22	20401	ASHF_T2	2	2	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
6/15/2024 11:22	20403	ASHF_T2	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
6/15/2024 11:23	10801	CHHI_T1	0	4	4	0	1.03	1.03	-1	-1.62	2	3	1	1500	2100	600
6/15/2024 11:24	10801	CHHI_T1	0	4	4	0	1.03	1.03	-1	-1.62	2	3	1	1500	2100	600
6/15/2024 11:25	51603	DUKE_T1	0	0	0	0	0	0	-2.35	-2.67	0	0	0	0	0	0
6/15/2024 11:26	51603	DUKE_T1	0	0	0	0	0	0	-1.18	-1.33	0	0	0	0	0	0
6/15/2024 11:27	51603	DUKE_T1	0	0	0	0	0	0	-1.18	-1.33	0	0	0	0	0	0
6/15/2024 11:27	42701	AUGU_T1	55	59	4	0.49	0.68	0.19	0	0	0	0	0	0	0	0
6/15/2024 11:29	52004	LING_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/15/2024 11:29	52002	LING_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
6/15/2024 11:31	52002	LING_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
6/15/2024 11:31	41801	GOCI_T2	0	3	3	0	0.77	0.77	0	0	0	0	0	0	0	0
6/15/2024 11:31	57004	WHHI_T2	0	0	0	0	0	0	-0.23	-0.9	0	0	0	0	0	0
6/15/2024 11:31	52004	LING_T2	1	1	0	0.2	1.1	0.9	0	0	0	0	0	0	0	0
6/15/2024 11:31	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
6/15/2024 11:31	57006	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/15/2024 11:32	64204	KINZ_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
6/15/2024 11:32	45801	HEGI_T1	0	0	0	0	0	0	-0.2	-0.2	1	1	0	900	900	0
6/15/2024 11:32	64203	KINZ_T1	0	0	0	0	0	0	0.47	0.38	2	2	0	900	900	0
6/15/2024 11:32	40602	PIGR_T1	1	1	0	1.6	1.2	-0.4	0	0	1	1	0	600	600	0
6/15/2024 11:33	41902	REED_T1	0	1	1	0	0.2	0.2	1.07	1.06	0	0	0	0	0	0
6/15/2024 11:33	52004	LING_T2	1	1	0	0.2	1.1	0.9	0	0	0	0	0	0	0	0
6/15/2024 11:33	52002	LING_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
6/15/2024 11:35	54203	PENN_T1	6	18	12	0.53	0.38	-0.15	-0.16	-0.16	1	1	0	600	600	0
6/15/2024 11:35	54201	PENN_T1	10	65	55	0.57	0.32	-0.25	0	0	0	0	0	0	0	0
6/15/2024 11:35	45801	HEGI_T1	0	0	0	0	0	0	-0.2	-0.2	1	1	0	900	900	0
6/15/2024 11:36	67605	WARW_T1	0	1	1	0	1.1	1.1	-0.79	-0.78	0	0	0	0	0	0
6/15/2024 11:37	54602	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 11:37	54601	SUMM_T2	0	0	0	0	0	0	-1.54	-1.52	2	2	0	2100	2100	0
6/15/2024 11:37	41902	REED_T1	0	1	1	0	0.2	0.2	1.06	1.05	0	0	0	0	0	0
6/15/2024 11:38	67604	WARW_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
6/15/2024 11:38	67605	WARW_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
6/15/2024 11:38	56802	BENV_T2	0	0	0	0	0	0	-2.33	-2.3	0	0	0	0	0	0
6/15/2024 11:39	56802	BENV_T2	0	0	0	0	0	0	-1.17	-1.15	0	0	0	0	0	0
6/15/2024 11:41	22001	BOHE_T1	4	3	-1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
6/15/2024 11:41	22003	BOHE_T1	6	6	0	1.2	1.13	-0.07	0.03	0.03	0	0	0	0	0	0
6/15/2024 11:42	22001	BOHE_T1	4	3	-1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
6/15/2024 11:42	41801	GOCI_T2	0	3	3	0	0.77	0.77	0	0	0	0	0	0	0	0
6/15/2024 11:42	22003	BOHE_T1	6	6	0	1.2	1.13	-0.07	0	0	0	0	0	0	0	0
6/15/2024 11:42	22002	BOHE_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
6/15/2024 11:43	24702	FLND_T2	3	3	0	0.6	0.67	0.07	-0.29	-0.1	1	1	0	1200	1200	0
6/15/2024 11:44	41801	GOCI_T2	0	3	3	0	0.77	0.77	0	0	0	0	0	0	0	0
6/15/2024 11:46	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 11:46	21206	ECAR_T2	2	2	0	4	4.15	0.15	0.06	0.02	0	0	0	0	0	0
6/15/2024 11:46	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 11:46	41801	GOCI_T2	0	3	3	0	0.77	0.77	0	0	0	0	0	0	0	0
6/15/2024 11:46	52404	GRPA_T2	1	0	-1	2.8	0	-2.8	0	0	0	0	0	0	0	0
6/15/2024 11:46	52403	GRPA_T2	2	0	-2	0.25	0	-0.25	-0.32	-0.31	0	0	0	0	0	0
6/15/2024 11:46	21202	ECAR_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/15/2024 11:47	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 11:47	40602	PIGR_T1	1	1	0	1.2	1.3	0.1	0	0	1	1	0	600	600	0
6/15/2024 11:47	12705	MACU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 11:47	12703	MACU_T2	0	0	0	0	0	0	-0.58	-0.52	0	0	0	0	0	0
6/15/2024 11:47	40603	PIGR_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/15/2024 11:47	65501	MOJO_T1	0	0	0	0	0	0	-0.99	-0.98	1	1	0	900	900	0
6/15/2024 11:47	64801	MONE_T2	2	1	-1	0.25	0.5	0.25	-0.3	-0.29	0	0	0	0	0	0
6/15/2024 11:49	12703	MACU_T2	0	0	0	0	0	0	-0.58	-0.52	0	0	0	0	0	0
6/15/2024 11:49	48302	ORWI_T2	1	2	1	0.2	0.8	0.6	0.05	-0.39	0	0	0	0	0	0
6/15/2024 11:49	12705	MACU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 11:51	24602	VARD_T2	471	550	79	0.7	0.82	0.12	-0.92	-0.92	0	0	0	0	0	0
6/15/2024 11:51	24603	VARD_T2	26	68	42	0.59	0.47	-0.12	0	0	0	0	0	0	0	0
6/15/2024 11:52	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 11:52	24602	VARD_T2	471	550	79	0.7	0.82	0.12	0	0	0	0	0	0	0	0
6/15/2024 11:52	66504	SMAN_T2	0	0	0	0	0	0	-2.52	-2.27	2	2	0	2400	2400	0
6/15/2024 11:52	24603	VARD_T2	26	68	42	0.59	0.47	-0.12	-0.63	-0.62	1	1	0	600	600	0
6/15/2024 11:53	67605	WARW_T1	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
6/15/2024 11:53	67603	WARW_T1	0	0	0	0	0	0	0.47	0.42	0	0	0	0	0	0
6/15/2024 11:55	61703	ELIZ_T1	0	0	0	0	0	0	-2.32	-2.33	2	2	0	2100	2100	0
6/15/2024 11:55	61701	ELIZ_T1	1	2	1	2.4	2.15	-0.25	0	0	0	0	0	0	0	0
6/15/2024 11:56	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 11:56	10103	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 11:56	10205	ALLE_T3	2	2	0	1.05	0.7	-0.35	0	0	0	0	0	0	0	0
6/15/2024 11:56	56801	BENV_T1	9	15	6	0.68	0.69	0.01	-0.53	-0.51	1	1	0	600	600	0
6/15/2024 11:56	10105	ALLE_T3	12	12	0	0.69	0.79	0.1	0	0	0	0	0	0	0	0
6/15/2024 11:56	41801	GOCI_T2	0	3	3	0	0.77	0.77	0	0	0	0	0	0	0	0
6/15/2024 11:56	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/15/2024 11:56	56803	BENV_T1	1	2	1	1.7	0.2	-1.5	0	0	0	0	0	0	0	0
6/15/2024 11:57	56801	BENV_T1	9	15	6	0.68	0.69	0.01	-0.53	-0.51	1	1	0	600	600	0
6/15/2024 11:57	56803	BENV_T1	1	2	1	1.7	0.2	-1.5	0	0	0	0	0	0	0	0
6/15/2024 11:57	41801	GOCI_T2	0	3	3	0	0.77	0.77	0	0	0	0	0	0	0	0
6/15/2024 11:58	40101	HUNT_T2	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
6/15/2024 11:58	11804	FRAN_T1	3	4	1	0.63	0.55	-0.08	0.89	0.91	0	0	0	0	0	0
6/15/2024 11:58	56803	BENV_T1	1	2	1	1.7	0.2	-1.5	0	0	0	0	0	0	0	0
6/15/2024 11:58	56801	BENV_T1	9	15	6	0.68	0.69	0.01	-2.13	-2.05	4	4	0	2400	2400	0
6/15/2024 11:59	41801	GOCI_T2	0	3	3	0	0.77	0.77	0	0	0	0	0	0	0	0
6/15/2024 12:00	12701	MACU_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
6/15/2024 12:01	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/15/2024 12:02	65402	MARI_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/15/2024 12:02	18502	CANA_T2	0	26	26	0	0	0	0.01	0.03	0	0	0	0	0	0
6/15/2024 12:03	12701	MACU_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
6/15/2024 12:03	40101	HUNT_T2	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
6/15/2024 12:04	44202	POIN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/15/2024 12:04	65402	MARI_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/15/2024 12:04	44203	POIN_T2	0	3	3	0	0	0	0.29	0.42	1	1	0	900	900	0
6/15/2024 12:05	43304	WATS_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/15/2024 12:05	12801	MICK_T1	0	0	0	0	0	0	-0.77	-0.76	1	1	0	600	600	0
6/15/2024 12:05	12803	MICK_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
6/15/2024 12:05	43301	WATS_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/15/2024 12:05	48302	ORWI_T2	2	2	0	0.6	0.8	0.2	-0.39	-0.38	0	0	0	0	0	0
6/15/2024 12:06	43304	WATS_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
6/15/2024 12:06	43301	WATS_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/15/2024 12:08	58001	WCAR_T1	5	5	0	0.42	0.54	0.12	0	0	0	0	0	0	0	0
6/15/2024 12:08	43304	WATS_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
6/15/2024 12:08	43301	WATS_T2	1	1	0	0.2	0.2	0	-0.48	-0.47	1	1	0	900	900	0
6/15/2024 12:08	58003	WCAR_T1	3	3	0	0.7	0.83	0.13	0	0	0	0	0	0	0	0
6/15/2024 12:09	43301	WATS_T2	1	1	0	0.2	0.2	0	-0.48	-0.47	1	1	0	900	900	0
6/15/2024 12:10	10205	ALLE_T3	2	2	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
6/15/2024 12:10	43304	WATS_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
6/15/2024 12:10	10109	ALLE_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 12:10	10103	ALLE_T3	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/15/2024 12:10	43301	WATS_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/15/2024 12:10	10105	ALLE_T3	12	12	0	0.79	1.12	0.33	0	0	0	0	0	0	0	0
6/15/2024 12:12	56802	BENV_T2	0	0	0	0	0	0	-1.13	-1.12	0	0	0	0	0	0
6/15/2024 12:13	61802	EELI_T2	0	2	2	0	0	0	-0.44	-0.46	0	0	0	0	0	0
6/15/2024 12:13	63501	HEID_TBK1-2	1	1	0	0.1	0.1	0	0	0.04	1	1	0	900	900	0
6/15/2024 12:14	52403	GRPA_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
6/15/2024 12:14	41801	GOCI_T2	3	1	-2	0.77	0.8	0.03	0	0	0	0	0	0	0	0
6/15/2024 12:14	52402	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 12:15	17401	FOHI_T1	0	0	0	0	0	0	-1.7	-1.69	0	0	0	0	0	0
6/15/2024 12:16	60901	DONG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 12:16	60902	DONG_T2	0	0	0	0	0	0	1.26	1.16	0	0	0	0	0	0
6/15/2024 12:16	60904	DONG_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/15/2024 12:16	41801	GOCI_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/15/2024 12:18	52004	LING_T2	1	1	0	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
6/15/2024 12:18	28805	LAKE_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
6/15/2024 12:18	52002	LING_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
6/15/2024 12:19	51004	NHAR_T1	1	1	0	6.6	6.6	0	-0.48	-0.49	0	0	0	0	0	0
6/15/2024 12:19	51002	NHAR_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/15/2024 12:20	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/15/2024 12:20	65206	PRIN_T4	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 12:21	67605	WARW_T1	1	1	0	1.5	1.5	0	-0.78	-0.84	0	0	0	0	0	0
6/15/2024 12:23	67103	SPRI_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
6/15/2024 12:23	67605	WARW_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
6/15/2024 12:23	67604	WARW_T1	0	0	0	0	0	0	0.32	0.43	0	0	0	0	0	0
6/15/2024 12:24	13606	RICH_T2	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
6/15/2024 12:24	67605	WARW_T1	1	1	0	1.5	1.5	0	-0.78	-0.84	0	0	0	0	0	0
6/15/2024 12:24	13601	RICH_T2	0	0	0	0	0	0	0.45	0.46	1	1	0	600	600	0
6/15/2024 12:25	16103	BING_T2	1	2	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/15/2024 12:25	16101	BING_T2	1	1	0	9.8	9.9	0.1	0.75	0.77	0	0	0	0	0	0
6/15/2024 12:25	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/15/2024 12:26	45501	DERR_T2	1	1	0	0.5	0.5	0	0.2	0.21	1	1	0	600	600	0
6/15/2024 12:27	56801	BENV_T1	13	11	-2	0.72	0.56	-0.16	-0.49	-0.47	1	1	0	600	600	0
6/15/2024 12:27	60102	COCA_T1	0	0	0	0	0	0	0.34	0.46	2	2	0	1200	1200	0
6/15/2024 12:27	60101	COCA_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/15/2024 12:27	56803	BENV_T1	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/15/2024 12:28	52403	GRPA_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
6/15/2024 12:28	41801	GOCI_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/15/2024 12:28	56802	BENV_T2	0	0	0	0	0	0	-1.12	-1.11	0	0	0	0	0	0
6/15/2024 12:28	24104	EHAZ_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	1200	1200	0
6/15/2024 12:28	45501	DERR_T2	1	1	0	0.5	0.5	0	0.2	0.21	1	1	0	600	600	0
6/15/2024 12:28	24102	EHAZ_T1	1	2	1	0.2	1.2	1	0	0	0	0	0	0	0	0
6/15/2024 12:28	24101	EHAZ_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
6/15/2024 12:28	24105	EHAZ_T1	4	4	0	5.95	5.88	-0.07	0	0	0	0	0	0	0	0
6/15/2024 12:29	52403	GRPA_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
6/15/2024 12:30	16406	MOPO_T1	0	0	0	0	0	0	-1.22	-1.21	2	2	0	2100	2100	0
6/15/2024 12:30	52403	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/15/2024 12:30	45802	HEGI_T2	42	45	3	0.9	0.97	0.07	0.38	0.29	2	2	0	600	600	0
6/15/2024 12:30	52401	GRPA_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
6/15/2024 12:31	52403	GRPA_T2	0	1	1	0	0.3	0.3	-0.29	-0.28	0	0	0	0	0	0
6/15/2024 12:34	42903	MIDD_T2	2	2	0	0.15	0.2	0.05	0.11	0.22	0	0	0	0	0	0
6/15/2024 12:34	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 12:35	44203	POIN_T2	0	5	5	0	0.53	0.53	0	0	0	0	0	0	0	0
6/15/2024 12:35	44202	POIN_T2	0	0	0	0	0	0	-0.8	-0.79	1	1	0	1200	1200	0
6/15/2024 12:36	48302	ORWI_T2	2	2	0	0.6	0.6	0	-0.36	-0.35	0	0	0	0	0	0
6/15/2024 12:36	65602	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 12:36	65603	QVIL_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
6/15/2024 12:36	65604	QVIL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
6/15/2024 12:36	66504	SMAN_T2	0	0	0	0	0	0	-1.18	-1.11	1	1	0	1200	1200	0
6/15/2024 12:37	64204	KINZ_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
6/15/2024 12:37	64203	KINZ_T1	0	0	0	0	0	0	0.04	0.05	1	1	0	600	600	0
6/15/2024 12:37	58003	WCAR_T1	2	3	1	0.6	0.67	0.07	0.2	0.2	1	1	0	600	600	0
6/15/2024 12:37	58001	WCAR_T1	4	5	1	0.38	0.54	0.16	0	0	0	0	0	0	0	0
6/15/2024 12:37	65804	RTWN_T1	0	0	0	0	0	0	0.28	0.29	1	1	0	600	600	0
6/15/2024 12:38	55101	WERT_T1	0	0	0	0	0	0	-4.07	-3.86	6	6	0	4800	4800	0
6/15/2024 12:38	58001	WCAR_T1	4	5	1	0.38	0.54	0.16	0	0	0	0	0	0	0	0
6/15/2024 12:38	58003	WCAR_T1	2	3	1	0.6	0.67	0.07	0.2	0.2	1	1	0	600	600	0
6/15/2024 12:38	55103	WERT_T1	1	2	1	2.6	6.5	3.9	0	0	0	0	0	0	0	0
6/15/2024 12:38	64204	KINZ_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
6/15/2024 12:38	64203	KINZ_T1	0	0	0	0	0	0	0.04	0.05	1	1	0	600	600	0
6/15/2024 12:41	44301	BEAV_T2	5	4	-1	0.4	0.3	-0.1	-0.04	0.04	1	1	0	600	600	0
6/15/2024 12:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/15/2024 12:41	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/15/2024 12:41	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/15/2024 12:41	51603	DUKE_T1	0	0	0	0	0	0	-1.17	-1.11	0	0	0	0	0	0
6/15/2024 12:42	63501	HEID_TBK1-2	0	0	0	0	0	0	0.05	0.04	1	1	0	900	900	0
6/15/2024 12:43	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 12:44	56801	BENV_T1	8	10	2	0.59	0.55	-0.04	-0.47	-0.45	1	1	0	600	600	0
6/15/2024 12:44	56803	BENV_T1	1	4	3	0.4	0.67	0.27	0	0	0	0	0	0	0	0
6/15/2024 12:45	63202	MGTN_T2	0	0	0	0	0	0	-0.09	-0.2	1	1	0	900	900	0
6/15/2024 12:45	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 12:45	63802	HEMP_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
6/15/2024 12:45	63804	HEMP_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
6/15/2024 12:45	64204	KINZ_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/15/2024 12:45	64203	KINZ_T1	0	0	0	0	0	0	0.04	0.05	1	1	0	600	600	0
6/15/2024 12:46	63802	HEMP_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
6/15/2024 12:46	46506	LOHA_T1	0	1	1	0	0.1	0.1	-0.65	-0.64	0	0	0	0	0	0
6/15/2024 12:46	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 12:46	63804	HEMP_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
6/15/2024 12:48	46506	LOHA_T1	0	1	1	0	0.1	0.1	-0.65	-0.64	0	0	0	0	0	0
6/15/2024 12:49	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 12:49	66504	SMAN_T2	0	1	1	0	0	0	-2.36	-2.22	2	2	0	2400	2400	0
6/15/2024 12:49	46506	LOHA_T1	0	1	1	0	0.1	0.1	-0.33	-0.32	0	0	0	0	0	0
6/15/2024 12:50	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 12:50	66503	SMAN_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
6/15/2024 12:50	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 12:50	46506	LOHA_T1	0	1	1	0	0.1	0.1	-0.33	-0.32	0	0	0	0	0	0
6/15/2024 12:51	45402	WBLO_T2	2	2	0	0.7	0.7	0	-1.36	-1.35	1	1	0	900	900	0
6/15/2024 12:52	49803	UNIV_T1	0	1	1	0	0.7	0.7	-0.59	-0.64	0	0	0	0	0	0
6/15/2024 12:52	10102	ALLE_T2	1	1	0	7.8	7.8	0	0	0	0	0	0	0	0	0
6/15/2024 12:53	45402	WBLO_T2	2	2	0	0.7	0.7	0	-1.36	-1.35	1	1	0	900	900	0
6/15/2024 12:53	67604	WARW_T1	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
6/15/2024 12:53	45403	WBLO_T1	0	0	0	0	0	0	0	0	3	3	0	3600	3600	0
6/15/2024 12:53	67605	WARW_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
6/15/2024 12:54	49803	UNIV_T1	0	1	1	0	0.7	0.7	-0.59	-0.64	0	0	0	0	0	0
6/15/2024 12:54	49804	UNIV_T1	0	0	0	0	0	0	0.89	0.89	0	0	0	0	0	0
6/15/2024 12:54	67303	WYOM_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
6/15/2024 12:55	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 12:55	67303	WYOM_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
6/15/2024 12:55	45501	DERR_T2	0	1	1	0	0.1	0.1	0.22	0.2	1	1	0	600	600	0
6/15/2024 12:55	10102	ALLE_T2	1	1	0	7.8	7.8	0	0	0	0	0	0	0	0	0
6/15/2024 12:55	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 12:57	21601	EYNO_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
6/15/2024 12:58	52403	GRPA_T2	0	3	3	0	0.55	0.55	-0.27	-0.26	0	0	0	0	0	0
6/15/2024 12:59	46506	LOHA_T1	0	1	1	0	0.1	0.1	-0.32	-0.31	0	0	0	0	0	0
6/15/2024 12:59	52004	LING_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
6/15/2024 12:59	52002	LING_T2	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
6/15/2024 12:59	61002	DONV_T2	0	0	0	0	0	0	-0.74	-0.77	2	2	0	1200	1200	0
6/15/2024 12:59	41801	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 13:00	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
6/15/2024 13:00	41801	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 13:00	60901	DONG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 13:00	60902	DONG_T2	0	1	1	0	0	0	1.09	1.09	0	0	0	0	0	0
6/15/2024 13:01	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
6/15/2024 13:01	28403	HART_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	900	900	0
6/15/2024 13:02	46506	LOHA_T1	0	1	1	0	0.1	0.1	-0.32	-0.31	0	0	0	0	0	0
6/15/2024 13:02	60902	DONG_T2	0	1	1	0	0	0	1.09	1.09	0	0	0	0	0	0
6/15/2024 13:02	52002	LING_T2	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
6/15/2024 13:02	60904	DONG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 13:02	52004	LING_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/15/2024 13:03	52004	LING_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/15/2024 13:03	52002	LING_T2	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
6/15/2024 13:05	56501	ROCK_T2	3	3	0	3.1	3.33	0.23	0	0	0	0	0	0	0	0
6/15/2024 13:05	56503	ROCK_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/15/2024 13:05	56504	ROCK_T2	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
6/15/2024 13:07	56503	ROCK_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/15/2024 13:07	56501	ROCK_T2	3	3	0	3.1	3.33	0.23	-0.7	-0.7	0	0	0	0	0	0
6/15/2024 13:07	56504	ROCK_T2	0	0	0	0	0	0	-1.65	-1.62	0	0	0	0	0	0
6/15/2024 13:08	56503	ROCK_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/15/2024 13:08	56501	ROCK_T2	3	3	0	3.1	3.33	0.23	-0.7	-0.7	0	0	0	0	0	0
6/15/2024 13:09	10805	CHHI_T2	1	1	0	8.7	8.2	-0.5	-1.27	-1.26	1	1	0	600	600	0
6/15/2024 13:11	14203	EALL_T1	1	0	-1	0.9	0	-0.9	0.08	0.11	1	1	0	1200	1200	0
6/15/2024 13:11	22003	BOHE_T1	5	5	0	1.24	1.26	0.02	0	0	0	0	0	0	0	0
6/15/2024 13:11	22002	BOHE_T1	0	1	1	0	0.3	0.3	0.5	0.5	0	0	0	0	0	0
6/15/2024 13:11	60103	COCA_T2	0	0	0	0	0	0	0.48	0.52	1	1	0	900	900	0
6/15/2024 13:11	67103	SPRI_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
6/15/2024 13:11	22001	BOHE_T1	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
6/15/2024 13:12	45802	HEGI_T2	6	47	41	0.18	1.39	1.21	0.22	0.08	1	1	0	300	300	0
6/15/2024 13:12	10805	CHHI_T2	1	1	0	8.7	8.2	-0.5	-1.27	-1.26	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/15/2024 13:13	14203	EALL_T1	1	0	-1	0.9	0	-0.9	0.08	0.11	1	1	0	1200	1200	0
6/15/2024 13:13	51603	DUKE_T1	0	0	0	0	0	0	-1.08	-1.16	0	0	0	0	0	0
6/15/2024 13:14	41801	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 13:15	52004	LING_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
6/15/2024 13:15	55508	HERS_T2	0	0	0	0	0	0	-2.24	-2.23	1	1	0	1200	1200	0
6/15/2024 13:16	41801	GOCI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 13:16	65401	MARI_T1	5	5	0	0.24	0	-0.24	0	0	0	0	0	0	0	0
6/15/2024 13:16	65402	MARI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 13:16	40101	HUNT_T2	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
6/15/2024 13:18	65401	MARI_T1	5	5	0	0.24	0	-0.24	0	0	0	0	0	0	0	0
6/15/2024 13:18	65402	MARI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 13:22	65401	MARI_T1	5	5	0	0.24	0	-0.24	0	0	0	0	0	0	0	0
6/15/2024 13:22	65402	MARI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 13:22	52004	LING_T2	1	1	0	0.7	0.3	-0.4	0.25	0.26	0	0	0	0	0	0
6/15/2024 13:25	56803	BENV_T1	1	5	4	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/15/2024 13:25	56801	BENV_T1	9	8	-1	0.63	0.5	-0.13	-0.41	-0.39	1	1	0	600	600	0
6/15/2024 13:27	41801	GOCI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 13:28	53902	HALI_T2	1	2	1	5	2.15	-2.85	0	0	0	0	0	0	0	0
6/15/2024 13:28	56801	BENV_T1	9	8	-1	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
6/15/2024 13:28	56803	BENV_T1	1	5	4	0.5	0.7	0.2	0.29	0.3	0	0	0	0	0	0
6/15/2024 13:28	53901	HALI_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
6/15/2024 13:28	53903	HALI_T2	6	3	-3	0.7	0.87	0.17	0	0	0	0	0	0	0	0
6/15/2024 13:29	54505	ENOL_T2	0	0	0	0	0	0	-0.91	-0.9	1	1	0	600	600	0
6/15/2024 13:29	45501	DERR_T2	1	2	1	0.1	0.35	0.25	0.29	0.23	1	1	0	600	600	0
6/15/2024 13:29	41801	GOCI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 13:31	47001	HUGH_T2	2	1	-1	0.15	0.1	-0.05	-1.47	-1.49	1	1	0	900	900	0
6/15/2024 13:33	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
6/15/2024 13:34	42902	MIDD_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
6/15/2024 13:34	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 13:35	65005	NEFF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/15/2024 13:35	65003	NEFF_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
6/15/2024 13:35	65901	SAKR_T2	1	1	0	7.7	7.7	0	-1.07	-1.08	2	2	0	1500	1500	0
6/15/2024 13:35	65001	NEFF_T2	0	0	0	0	0	0	-0.69	-0.71	1	1	0	1200	1200	0
6/15/2024 13:37	58006	WCAR_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
6/15/2024 13:37	58002	WCAR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 13:38	58006	WCAR_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
6/15/2024 13:38	58002	WCAR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 13:39	61001	DONV_T1	1	1	0	0.6	1.3	0.7	0.21	0.21	0	0	0	0	0	0
6/15/2024 13:39	61102	BERK_T5	0	0	0	0	0	0	-0.88	-0.97	4	4	0	2400	2400	0
6/15/2024 13:40	61102	BERK_T5	0	0	0	0	0	0	-0.44	-0.49	2	2	0	1200	1200	0
6/15/2024 13:41	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 13:42	61102	BERK_T5	0	0	0	0	0	0	-0.44	-0.49	2	2	0	1200	1200	0
6/15/2024 13:42	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/15/2024 13:43	52002	LING_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
6/15/2024 13:43	52004	LING_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/15/2024 13:45	21203	ECAR_T1	2	2	0	1.35	0.9	-0.45	0.6	0.59	0	0	0	0	0	0
6/15/2024 13:48	47401	PENS_T1	2	2	0	0.85	0.55	-0.3	1.37	1.23	0	0	0	0	0	0
6/15/2024 13:48	58401	MORO_T1	0	0	0	0	0	0	-2.51	-2.48	4	4	0	2400	2400	0
6/15/2024 13:48	47403	PENS_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
6/15/2024 13:48	47402	PENS_T1	2	3	1	0.3	0.67	0.37	0	0	0	0	0	0	0	0
6/15/2024 13:48	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 13:49	13905	SEID_T1	0	1	1	0	0.1	0.1	-0.52	-0.51	1	1	0	1200	1200	0
6/15/2024 13:49	66504	SMAN_T2	0	0	0	0	0	0	-1.12	-1.09	1	1	0	1200	1200	0
6/15/2024 13:49	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 13:52	44601	SALE_T2	0	2	2	0	0.15	0.15	0.01	0.01	0	0	0	0	0	0
6/15/2024 13:53	51603	DUKE_T1	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
6/15/2024 13:53	51604	DUKE_T2	0	0	0	0	0	0	-1.45	-0.94	1	1	0	900	900	0
6/15/2024 13:54	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/15/2024 13:54	51604	DUKE_T2	0	0	0	0	0	0	-4.34	-2.81	3	3	0	2700	2700	0
6/15/2024 13:54	41601	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 13:54	10705	CATA_T2	0	0	0	0	0	0	-1.6	-1.64	1	1	0	900	900	0
6/15/2024 13:55	67903	WNHO_T1	0	0	0	0	0	0	0.29	0.3	1	1	0	1200	1200	0
6/15/2024 13:55	51604	DUKE_T2	0	0	0	0	0	0	-4.34	-2.81	3	3	0	2700	2700	0
6/15/2024 13:56	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 13:56	51101	CARL_T1	1	1	0	7.9	7.5	-0.4	0	0	0	0	0	0	0	0
6/15/2024 13:56	51107	CARL_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
6/15/2024 13:56	51604	DUKE_T2	0	0	0	0	0	0	-4.34	-2.81	3	3	0	2700	2700	0
6/15/2024 13:57	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 13:57	51604	DUKE_T2	0	0	0	0	0	0	-1.45	-0.94	1	1	0	900	900	0
6/15/2024 13:58	51604	DUKE_T2	0	0	0	0	0	0	-1.45	-0.94	1	1	0	900	900	0
6/15/2024 13:58	40101	HUNT_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
6/15/2024 13:59	40101	HUNT_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
6/15/2024 14:01	63401	HONY_T1	0	0	0	0	0	0	0.72	0.8	0	0	0	0	0	0
6/15/2024 14:04	47402	PENS_T1	1	3	2	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/15/2024 14:04	47401	PENS_T1	2	2	0	0.55	1.5	0.95	2.45	2.83	0	0	0	0	0	0
6/15/2024 14:04	44601	SALE_T2	0	3	3	0	0.17	0.17	0.01	0.01	0	0	0	0	0	0
6/15/2024 14:05	27605	PIRI_T2	0	0	0	0	0	0	0.59	0.68	0	0	0	0	0	0
6/15/2024 14:06	67901	WNHO_T2	23	55	32	0.34	0.36	0.02	-0.14	-0.15	0	0	0	0	0	0
6/15/2024 14:06	67902	WNHO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/15/2024 14:08	14601	SWHI_T1	0	1	1	0	0.2	0.2	-1.22	-1.22	0	0	0	0	0	0
6/15/2024 14:08	44601	SALE_T2	0	3	3	0	0.17	0.17	0.01	0.02	0	0	0	0	0	0
6/15/2024 14:08	51101	CARL_T1	1	1	0	7.6	7.5	-0.1	0	0	0	0	0	0	0	0
6/15/2024 14:08	54602	SUMM_T2	0	0	0	0	0	0	-2.06	-2.05	1	1	0	600	600	0
6/15/2024 14:08	51109	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 14:08	51108	CARL_T1	0	0	0	0	0	0	-0.9	-0.82	1	1	0	600	600	0
6/15/2024 14:08	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 14:08	27005	BELL_T1	0	0	0	0	0	0	-1.3	-1.29	0	0	0	0	0	0
6/15/2024 14:10	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.44	0.51	1	1	0	600	600	0
6/15/2024 14:12	10805	CHHI_T2	1	1	0	8	8.1	0.1	-1.15	-1.16	1	1	0	600	600	0
6/15/2024 14:14	40101	HUNT_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
6/15/2024 14:15	63501	HEID_TBK1-2	0	0	0	0	0	0	0.07	0.05	1	1	0	900	900	0
6/15/2024 14:15	51401	LYKE_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
6/15/2024 14:15	45802	HEGI_T2	3	46	43	0.23	1.15	0.92	0.83	0.52	2	2	0	600	600	0
6/15/2024 14:18	52001	LING_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
6/15/2024 14:19	66901	SHIL_T2	1	1	0	0.2	0.2	0	0.22	0.17	0	0	0	0	0	0
6/15/2024 14:19	66903	SHIL_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
6/15/2024 14:19	66902	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/15/2024 14:24	67904	WNHO_T1	0	0	0	0	0	0	-1.95	-1.94	2	2	0	2100	2100	0
6/15/2024 14:25	44302	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 14:25	44301	BEAV_T2	2	6	4	0.3	0.4	0.1	-0.59	-0.57	1	1	0	600	600	0
6/15/2024 14:25	61802	EELI_T2	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
6/15/2024 14:26	58006	WCAR_T2	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
6/15/2024 14:26	46004	BERW_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
6/15/2024 14:29	41801	GOCI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/15/2024 14:31	63802	HEMP_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
6/15/2024 14:31	63804	HEMP_T1	1	1	0	6.6	6.3	-0.3	0	0	0	0	0	0	0	0
6/15/2024 14:32	52001	LING_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
6/15/2024 14:35	52004	LING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/15/2024 14:36	56501	ROCK_T2	3	9	6	3.6	1.38	-2.22	-0.69	-0.66	0	0	0	0	0	0
6/15/2024 14:36	56504	ROCK_T2	0	1	1	0	0.1	0.1	-0.77	-0.76	0	0	0	0	0	0
6/15/2024 14:36	56503	ROCK_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/15/2024 14:41	58006	WCAR_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
6/15/2024 14:44	41801	GOCI_T2	1	0	-1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/15/2024 14:45	24701	FLND_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
6/15/2024 14:45	47101	MARL_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
6/15/2024 14:45	24702	FLND_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
6/15/2024 14:46	41801	GOCI_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
6/15/2024 14:46	65501	MOJO_T1	0	0	0	0	0	0	-0.9	-0.76	1	1	0	900	900	0
6/15/2024 14:48	54701	NEBL_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	600	600	0
6/15/2024 14:48	47101	MARL_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
6/15/2024 14:49	64101	REFR_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
6/15/2024 14:49	67204	TEHI_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
6/15/2024 14:51	56501	ROCK_T2	2	10	8	0.5	0.38	-0.12	0	0	0	0	0	0	0	0
6/15/2024 14:51	56504	ROCK_T2	1	1	0	0.1	0.3	0.2	-1.51	-1.49	0	0	0	0	0	0
6/15/2024 14:51	56503	ROCK_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/15/2024 14:52	67204	TEHI_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
6/15/2024 14:52	16302	ALPA_T2	0	2	2	0	0.35	0.35	-0.17	-0.14	0	0	0	0	0	0
6/15/2024 14:52	65205	PRIN_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
6/15/2024 14:54	67605	WARW_T1	0	1	1	0	1.1	1.1	-0.99	-0.97	0	0	0	0	0	0
6/15/2024 14:54	16302	ALPA_T2	0	2	2	0	0.35	0.35	-0.17	-0.14	0	0	0	0	0	0
6/15/2024 14:55	16302	ALPA_T2	0	2	2	0	0.35	0.35	-0.17	-0.14	0	0	0	0	0	0
6/15/2024 14:56	29402	BELT_T1	4	2	-2	2.23	4.25	2.02	0	0	0	0	0	0	0	0
6/15/2024 14:56	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/15/2024 14:59	12301	LANA_T2	0	0	0	0	0	0	-0.97	-0.96	0	0	0	0	0	0
6/15/2024 14:59	12304	LANA_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
6/15/2024 15:00	64204	KINZ_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
6/15/2024 15:00	64201	KINZ_T1	0	0	0	0	0	0	-0.47	-0.41	4	4	0	2100	2100	0
6/15/2024 15:01	64203	KINZ_T1	0	0	0	0	0	0	-0.6	-0.56	2	2	0	900	900	0
6/15/2024 15:01	64204	KINZ_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
6/15/2024 15:02	46101	MACI_T2	0	0	0	0	0	0	-0.53	-0.55	1	1	0	1200	1200	0
6/15/2024 15:03	48302	ORWI_T2	1	2	1	0.5	0.35	-0.15	-0.35	-0.36	0	0	0	0	0	0
6/15/2024 15:04	64101	REFR_T1	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
6/15/2024 15:07	64101	REFR_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
6/15/2024 15:07	10805	CHHI_T2	1	1	0	8.2	8	-0.2	-1.16	-1.15	1	1	0	600	600	0
6/15/2024 15:08	64101	REFR_T1	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
6/15/2024 15:08	16302	ALPA_T2	2	0	-2	0.35	0	-0.35	-0.14	-0.21	0	0	0	0	0	0
6/15/2024 15:09	64101	REFR_T1	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
6/15/2024 15:10	45501	DERR_T2	0	1	1	0	0.1	0.1	0.58	0.58	1	1	0	600	600	0
6/15/2024 15:11	16302	ALPA_T2	2	0	-2	0.35	0	-0.35	-0.14	-0.21	0	0	0	0	0	0
6/15/2024 15:13	21601	EYNO_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
6/15/2024 15:15	24702	FLND_T2	2	2	0	0.4	0.45	0.05	-0.19	-0.09	1	1	0	1200	1200	0
6/15/2024 15:17	57303	MOAL_T2	1	1	0	8.2	8.5	0.3	0	0	0	0	0	0	0	0
6/15/2024 15:17	52004	LING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 15:17	57304	MOAL_T2	1	1	0	0.1	0.5	0.4	-0.28	-0.52	0	0	0	0	0	0
6/15/2024 15:17	52006	LING_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/15/2024 15:18	12606	MACA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 15:18	64101	REFR_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
6/15/2024 15:18	12604	MACA_T1	0	0	0	0	0	0	1.4	1.42	0	0	0	0	0	0
6/15/2024 15:18	12601	MACA_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
6/15/2024 15:19	64101	REFR_T1	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
6/15/2024 15:20	64101	REFR_T1	0	0	0	0	0	0	1.03	1.02	0	0	0	0	0	0
6/15/2024 15:21	42201	SHEN_T2	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
6/15/2024 15:22	64203	KINZ_T1	0	0	0	0	0	0	-0.53	-0.52	2	2	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/15/2024 15:22	64204	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
6/15/2024 15:22	64101	REFR_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
6/15/2024 15:23	64204	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
6/15/2024 15:23	64203	KINZ_T1	0	0	0	0	0	0	-0.53	-0.52	2	2	0	900	900	0
6/15/2024 15:28	52402	GRPA_T2	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
6/15/2024 15:28	52403	GRPA_T2	5	5	0	0.64	0.33	-0.31	0	0	0	0	0	0	0	0
6/15/2024 15:28	52401	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/15/2024 15:28	10805	CHHI_T2	1	1	0	8	8.1	0.1	-1.15	-1.18	1	1	0	600	600	0
6/15/2024 15:31	52402	GRPA_T2	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
6/15/2024 15:31	52401	GRPA_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/15/2024 15:31	52403	GRPA_T2	3	6	3	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
6/15/2024 15:33	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
6/15/2024 15:33	64203	KINZ_T1	0	0	0	0	0	0	-0.53	-0.52	2	2	0	900	900	0
6/15/2024 15:33	64101	REFR_T1	0	3	3	0	0	0	0.34	0.34	0	0	0	0	0	0
6/15/2024 15:34	64101	REFR_T1	0	3	3	0	0	0	0.68	0.68	0	0	0	0	0	0
6/15/2024 15:34	40602	PIGR_T1	1	1	0	0.5	0.5	0	0	0	1	1	0	600	600	0
6/15/2024 15:34	40603	PIGR_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
6/15/2024 15:34	65205	PRIN_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/15/2024 15:35	54701	NEBL_T1	0	2	2	0	0	0	0	0	1	1	0	600	600	0
6/15/2024 15:35	64101	REFR_T1	0	3	3	0	0	0	1.02	1.02	0	0	0	0	0	0
6/15/2024 15:36	64101	REFR_T1	0	3	3	0	0	0	0.34	0.34	0	0	0	0	0	0
6/15/2024 15:37	56504	ROCK_T2	1	1	0	0.4	0.1	-0.3	-0.71	-0.7	0	0	0	0	0	0
6/15/2024 15:37	64101	REFR_T1	0	3	3	0	0	0	0.34	0.34	0	0	0	0	0	0
6/15/2024 15:37	56501	ROCK_T2	6	3	-3	1.73	0.27	-1.46	0	0	0	0	0	0	0	0
6/15/2024 15:37	56503	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/15/2024 15:41	56803	BENV_T1	6	8	2	1.12	1.05	-0.07	0	0	0	0	0	0	0	0
6/15/2024 15:41	56801	BENV_T1	3	4	1	0.37	0.95	0.58	-0.3	-0.3	1	1	0	600	600	0
6/15/2024 15:44	47001	HUGH_T2	0	0	0	0	0	0	-1.4	-1.38	1	1	0	900	900	0
6/15/2024 15:44	56803	BENV_T1	6	8	2	1.12	1.05	-0.07	0	0	0	0	0	0	0	0
6/15/2024 15:44	56801	BENV_T1	3	4	1	0.37	0.95	0.58	-0.3	-0.3	1	1	0	600	600	0
6/15/2024 15:46	12304	LANA_T2	1	4	3	0.8	0.25	-0.55	0	0	0	0	0	0	0	0
6/15/2024 15:46	12301	LANA_T2	0	1	1	0	0	0	-0.93	-0.92	0	0	0	0	0	0
6/15/2024 15:50	64101	REFR_T1	0	3	3	0	0.13	0.13	0.68	0.68	0	0	0	0	0	0
6/15/2024 15:51	64101	REFR_T1	0	3	3	0	0.13	0.13	0.34	0.34	0	0	0	0	0	0
6/15/2024 15:52	64101	REFR_T1	0	3	3	0	0.13	0.13	0.68	0.68	0	0	0	0	0	0
6/15/2024 15:54	16302	ALPA_T2	1	0	-1	0.3	0	-0.3	-0.17	-0.21	0	0	0	0	0	0
6/15/2024 15:59	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	-0.42	-0.41	0	0	0	0	0	0
6/15/2024 15:59	52402	GRPA_T2	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
6/15/2024 15:59	52403	GRPA_T2	5	6	1	0.62	0.55	-0.07	0	0	0	0	0	0	0	0
6/15/2024 16:03	52402	GRPA_T2	0	1	1	0	0	0	-0.8	-0.79	0	0	0	0	0	0
6/15/2024 16:03	15604	NSTR_T1	13	72	59	0.21	0.68	0.47	-0.84	-0.88	0	0	0	0	0	0
6/15/2024 16:03	52403	GRPA_T2	5	9	4	0.78	0.5	-0.28	0	0	0	0	0	0	0	0
6/15/2024 16:04	52002	LING_T2	0	0	0	0	0	0	-0.27	-0.17	0	0	0	0	0	0
6/15/2024 16:04	58401	MORO_T1	0	0	0	0	0	0	-1.09	-1.07	2	2	0	1200	1200	0
6/15/2024 16:05	58401	MORO_T1	0	0	0	0	0	0	-1.09	-1.07	2	2	0	1200	1200	0
6/15/2024 16:05	15604	NSTR_T1	13	72	59	0.21	0.68	0.47	-0.84	-0.88	0	0	0	0	0	0
6/15/2024 16:06	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 16:08	43304	WATS_T2	1	0	-1	1	0	-1	-0.81	-0.8	0	0	0	0	0	0
6/15/2024 16:09	16103	BING_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/15/2024 16:09	16101	BING_T2	1	2	1	9.8	9.9	0.1	0	0	0	0	0	0	0	0
6/15/2024 16:09	67602	WARW_T2	0	0	0	0	0	0	0.01	0.03	2	2	0	1500	1500	0
6/15/2024 16:09	16102	BING_T2	0	4	4	0	0.2	0.2	-0.44	-0.47	1	1	0	1200	1200	0
6/15/2024 16:09	64101	REFR_T1	3	3	0	0.13	0.7	0.57	0.34	0.34	0	0	0	0	0	0
6/15/2024 16:10	67602	WARW_T2	0	0	0	0	0	0	0.01	0.03	2	2	0	1500	1500	0
6/15/2024 16:11	67602	WARW_T2	0	0	0	0	0	0	0.02	0.06	4	4	0	3000	3000	0
6/15/2024 16:12	63401	HONY_T1	0	0	0	0	0	0	0.61	0.79	0	0	0	0	0	0
6/15/2024 16:12	67602	WARW_T2	0	0	0	0	0	0	0.01	0.03	2	2	0	1500	1500	0
6/15/2024 16:13	63401	HONY_T1	0	0	0	0	0	0	0.61	0.79	0	0	0	0	0	0
6/15/2024 16:14	41801	GOCI_T2	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
6/15/2024 16:16	55101	WERT_T1	0	0	0	0	0	0	-1.89	-1.74	3	3	0	2400	2400	0
6/15/2024 16:16	47101	MARL_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
6/15/2024 16:16	63401	HONY_T1	0	0	0	0	0	0	0.61	0.79	0	0	0	0	0	0
6/15/2024 16:16	55103	WERT_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
6/15/2024 16:17	47101	MARL_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
6/15/2024 16:18	63401	HONY_T1	0	0	0	0	0	0	0.61	0.79	0	0	0	0	0	0
6/15/2024 16:22	14404	SSLA_T1	1	1	0	3.7	3.5	-0.2	0	0	0	0	0	0	0	0
6/15/2024 16:22	14403	SSLA_T1	0	3	3	0	0.5	0.5	0.62	0.61	1	1	0	600	600	0
6/15/2024 16:25	43304	WATS_T2	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
6/15/2024 16:27	63401	HONY_T1	0	0	0	0	0	0	0.79	0.72	0	0	0	0	0	0
6/15/2024 16:28	55101	WERT_T1	0	0	0	0	0	0	-1.74	-1.78	3	3	0	2400	2400	0
6/15/2024 16:28	41801	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 16:28	55103	WERT_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
6/15/2024 16:28	10705	CATA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/15/2024 16:28	10702	CATA_T2	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
6/15/2024 16:31	41801	GOCI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 16:32	18502	CANA_T2	315	767	452	2.37	3.01	0.64	0.04	0.04	0	0	0	0	0	0
6/15/2024 16:34	15604	NSTR_T1	71	208	137	0.83	1.42	0.59	-0.84	-0.08	0	0	0	0	0	0
6/15/2024 16:36	15604	NSTR_T1	71	208	137	0.83	1.42	0.59	-0.84	-0.08	0	0	0	0	0	0
6/15/2024 16:48	47802	MOCA_T2	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
6/15/2024 16:50	64101	REFR_T1	3	3	0	0.33	0.47	0.14	0.34	0.34	0	0	0	0	0	0
6/15/2024 16:54	67602	WARW_T2	0	0	0	0	0	0	0.07	0.08	2	2	0	1500	1500	0
6/15/2024 16:54	14403	SSLA_T1	3	0	-3	0.67	0	-0.67	0.61	0.6	1	1	0	600	600	0
6/15/2024 16:54	14404	SSLA_T1	1	1	0	2.3	2.7	0.4	0	0	0	0	0	0	0	0
6/15/2024 16:55	61701	ELIZ_T1	1	1	0	1.7	1.8	0.1	1.02	0.94	0	0	0	0	0	0
6/15/2024 16:55	61703	ELIZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 16:57	61703	ELIZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 16:57	61701	ELIZ_T1	1	1	0	1.7	1.8	0.1	1.02	0.94	0	0	0	0	0	0
6/15/2024 16:58	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
6/15/2024 17:00	61703	ELIZ_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/15/2024 17:00	61701	ELIZ_T1	1	1	0	1.6	1.8	0.2	1.02	0.94	0	0	0	0	0	0
6/15/2024 17:01	52402	GRPA_T2	4	1	-3	0.68	0.3	-0.38	0	0	0	0	0	0	0	0
6/15/2024 17:01	52403	GRPA_T2	8	13	5	1.2	1.28	0.08	-0.15	-0.46	0	0	0	0	0	0
6/15/2024 17:01	64302	LINC_T2	3	1	-2	0.5	1.2	0.7	1.5	1.53	0	0	0	0	0	0
6/15/2024 17:06	65802	RTWN_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
6/15/2024 17:13	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 17:14	52004	LING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 17:14	52006	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 17:15	41801	GOCI_T2	1	0	-1	1.6	0	-1.6	0	0	0	0	0	0	0	0
6/15/2024 17:16	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 17:19	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 17:23	65901	SAKR_T2	1	1	0	7	7	0	0	0	0	0	0	0	0	0
6/15/2024 17:23	65902	SAKR_T2	0	0	0	0	0	0	-0.37	-0.37	1	1	0	300	300	0
6/15/2024 17:26	42701	AUGU_T1	85	106	21	1.84	1.94	0.1	0	0	0	0	0	0	0	0
6/15/2024 17:31	63804	HEMP_T1	1	1	0	6.6	6.5	-0.1	-0.16	-0.13	0	0	0	0	0	0
6/15/2024 17:34	46101	MACI_T2	0	0	0	0	0	0	-0.49	-0.5	1	1	0	1200	1200	0
6/15/2024 17:35	13302	ORVI_T2	3	1	-2	0.6	0.1	-0.5	0.98	1.01	0	0	0	0	0	0
6/15/2024 17:42	52403	GRPA_T2	13	36	23	0.85	1.09	0.24	-0.43	-0.45	0	0	0	0	0	0
6/15/2024 17:42	61701	ELIZ_T1	1	1	0	1.7	1.7	0	1.82	1.64	0	0	0	0	0	0
6/15/2024 17:42	52402	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/15/2024 17:43	52402	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/15/2024 17:43	52403	GRPA_T2	13	36	23	0.85	1.09	0.24	-0.43	-0.45	0	0	0	0	0	0
6/15/2024 17:44	52403	GRPA_T2	13	36	23	0.85	1.09	0.24	-0.43	-0.45	0	0	0	0	0	0
6/15/2024 17:44	61701	ELIZ_T1	1	1	0	1.7	1.7	0	0.91	0.82	0	0	0	0	0	0
6/15/2024 17:44	52402	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/15/2024 17:45	52403	GRPA_T2	33	13	-20	0.7	1	0.3	-0.43	-0.45	0	0	0	0	0	0
6/15/2024 17:47	23404	HONE_T1	0	21	21	0	0.14	0.14	0	0	0	0	0	0	0	0
6/15/2024 17:47	23403	HONE_T1	0	93	93	0	0.15	0.15	-0.46	-0.55	0	0	0	0	0	0
6/15/2024 17:48	46503	LOHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 17:48	46506	LOHA_T1	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
6/15/2024 17:49	46506	LOHA_T1	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
6/15/2024 17:49	46503	LOHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 18:01	53502	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 18:01	53501	EVIL_T2	1	1	0	0.5	0.3	-0.2	-0.38	-0.24	0	0	0	0	0	0
6/15/2024 18:04	54001	SDLE_T1	1	0	-1	0.4	0	-0.4	0	0	1	1	0	600	600	0
6/15/2024 18:06	56501	ROCK_T2	1	1	0	0.2	0	-0.2	-1.81	-1.82	0	0	0	0	0	0
6/15/2024 18:07	54001	SDLE_T1	1	0	-1	0.4	0	-0.4	0	0	1	1	0	600	600	0
6/15/2024 18:09	43304	WATS_T2	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
6/15/2024 18:20	54001	SDLE_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/15/2024 18:23	54001	SDLE_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/15/2024 18:26	22002	BOHE_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
6/15/2024 18:26	22003	BOHE_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
6/15/2024 18:27	61101	BERK_T5	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
6/15/2024 18:40	44301	BEAV_T2	3	4	1	1.07	0.9	-0.17	-0.73	-0.74	1	1	0	600	600	0
6/15/2024 18:42	22003	BOHE_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/15/2024 18:42	22002	BOHE_T1	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
6/15/2024 18:42	44301	BEAV_T2	3	4	1	1.07	0.9	-0.17	-0.73	-0.74	1	1	0	600	600	0
6/15/2024 18:44	12005	HATF_T1	3	4	1	0.27	0.38	0.11	0	0	0	0	0	0	0	0
6/15/2024 18:44	12006	HATF_T1	0	0	0	0	0	0	1.02	1.03	0	0	0	0	0	0
6/15/2024 18:44	53302	GRAT_T2	9	28	19	0.18	0.24	0.06	0	0	0	0	0	0	0	0
6/15/2024 18:50	46901	MNTG_T2	0	3	3	0	0.1	0.1	0.48	0.43	0	0	0	0	0	0
6/15/2024 18:50	46902	MNTG_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
6/15/2024 18:50	46903	MNTG_T2	2	25	23	0.1	0.18	0.08	0	0	0	0	0	0	0	0
6/15/2024 18:50	12606	MACA_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/15/2024 18:50	12601	MACA_T1	0	1	1	0	0	0	1.25	1.24	0	0	0	0	0	0
6/15/2024 18:58	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/15/2024 18:58	29402	BELT_T1	1	4	3	7.8	8.4	0.6	0	0	0	0	0	0	0	0
6/15/2024 19:00	10805	CHHI_T2	1	1	0	8.4	7.9	-0.5	-1.08	-1.1	1	1	0	600	600	0
6/15/2024 19:01	64902	MILL_T2	0	0	0	0	0	0	-0.82	-0.83	1	1	0	900	900	0
6/15/2024 19:05	41902	REED_T1	50	36	-14	0.51	0.38	-0.13	1.12	1.09	0	0	0	0	0	0
6/15/2024 19:05	13501	MCMI_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
6/15/2024 19:08	41902	REED_T1	50	36	-14	0.51	0.38	-0.13	1.09	1.07	0	0	0	0	0	0
6/15/2024 19:08	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 19:08	10102	ALLE_T2	1	1	0	8	7.8	-0.2	0	0	0	0	0	0	0	0
6/15/2024 19:12	65604	QVIL_T2	1	2	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/15/2024 19:12	65603	QVIL_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
6/15/2024 19:16	46502	LOHA_T1	0	0	0	0	0	0	-1.14	-1.14	2	2	0	2400	2400	0
6/15/2024 19:16	64701	LITI_T1	0	0	0	0	0	0	-0.43	-0.45	1	1	0	900	900	0
6/15/2024 19:16	46506	LOHA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/15/2024 19:17	51003	NHAR_T1	2	3	1	0.3	0.3	0	-1.92	-1.92	1	1	0	1200	1200	0
6/15/2024 19:17	51002	NHAR_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
6/15/2024 19:17	51004	NHAR_T1	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
6/15/2024 19:26	61103	BERK_T5	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
6/15/2024 19:39	14404	SSLA_T1	1	1	0	3.7	4	0.3	0.13	0.13	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/15/2024 19:41	62605	ENGL_T1	0	0	0	0	0	0	-1.51	-1.52	0	0	0	0	0	0
6/15/2024 19:41	62607	ENGL_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/15/2024 19:45	66303	MCGO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 19:45	66301	MCGO_T2	0	0	0	0	0	0	-1.46	-1.48	0	0	0	0	0	0
6/15/2024 19:56	10705	CATA_T2	0	0	0	0	0	0	-1.71	-1.75	1	1	0	900	900	0
6/15/2024 19:56	54505	ENOL_T2	0	0	0	0	0	0	-0.89	-0.91	1	1	0	600	600	0
6/15/2024 19:57	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 19:57	40502	CRES_T2	3	11	8	0.13	0.21	0.08	-0.64	-0.67	0	0	0	0	0	0
6/15/2024 19:59	40502	CRES_T2	3	11	8	0.13	0.21	0.08	-0.64	-0.67	0	0	0	0	0	0
6/15/2024 19:59	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 20:03	20401	ASHF_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
6/15/2024 20:04	52501	PROG_T1	0	0	0	0	0	0	0.94	0.84	1	1	0	300	300	0
6/15/2024 20:04	52504	PROG_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/15/2024 20:06	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/15/2024 20:06	62102	ELAN_T1	0	0	0	0	0	0	0	1.26	0	0	0	0	0	0
6/15/2024 20:08	15703	TANN_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
6/15/2024 20:08	20403	ASHF_T2	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
6/15/2024 20:08	15702	TANN_T2	0	0	0	0	0	0	-0.16	-0.23	0	0	0	0	0	0
6/15/2024 20:09	15703	TANN_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
6/15/2024 20:09	15702	TANN_T2	0	0	0	0	0	0	-0.16	-0.23	0	0	0	0	0	0
6/15/2024 20:10	62102	ELAN_T1	0	0	0	0	0	0	0	1.26	0	0	0	0	0	0
6/15/2024 20:12	15702	TANN_T2	0	0	0	0	0	0	-0.16	-0.23	0	0	0	0	0	0
6/15/2024 20:12	15703	TANN_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
6/15/2024 20:16	46803	HEPB_T2	17	14	-3	0.21	0.21	0	0	0	0	0	0	0	0	0
6/15/2024 20:16	46801	HEPB_T2	37	37	0	0.41	0.38	-0.03	-0.02	-0.05	0	0	0	0	0	0
6/15/2024 20:17	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 20:18	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 20:18	46801	HEPB_T2	37	37	0	0.41	0.38	-0.03	-0.02	-0.05	0	0	0	0	0	0
6/15/2024 20:18	46803	HEPB_T2	17	14	-3	0.21	0.21	0	0	0	0	0	0	0	0	0
6/15/2024 20:19	46803	HEPB_T2	17	14	-3	0.21	0.21	0	0.64	0.63	0	0	0	0	0	0
6/15/2024 20:19	46801	HEPB_T2	37	37	0	0.41	0.38	-0.03	0	0	0	0	0	0	0	0
6/15/2024 20:21	46801	HEPB_T2	37	37	0	0.41	0.38	-0.03	0	0	0	0	0	0	0	0
6/15/2024 20:21	46803	HEPB_T2	17	14	-3	0.21	0.21	0	0.63	0.61	0	0	0	0	0	0
6/15/2024 20:25	24201	PROV_T3	1	1	0	7.6	7.1	-0.5	-1.15	-1.16	1	1	0	1200	1200	0
6/15/2024 20:25	24204	PROV_T3	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
6/15/2024 20:25	24205	PROV_T3	1	1	0	1.7	2.3	0.6	0	0	0	0	0	0	0	0
6/15/2024 20:30	20601	GRWO_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
6/15/2024 20:30	20603	GRWO_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 20:33	20603	GRWO_T2	0	3	3	0	0.1	0.1	-0.56	-0.57	1	1	0	900	900	0
6/15/2024 20:38	60801	BUCK_T1	22	6	-16	0.2	0.12	-0.08	-0.74	-0.08	1	0	-1	600	0	-600
6/15/2024 20:38	60803	BUCK_T1	15	13	-2	0.41	0.32	-0.09	0	0	0	0	0	0	0	0
6/15/2024 20:45	56802	BENV_T2	0	0	0	0	0	0	-1.24	-1.25	0	0	0	0	0	0
6/15/2024 20:50	12701	MACU_T1	0	0	0	0	0	0	-1.93	-1.95	2	2	0	2400	2400	0
6/15/2024 20:58	60803	BUCK_T1	13	12	-1	0.32	0.2	-0.12	-1.01	-1.03	1	1	0	600	600	0
6/15/2024 20:58	60801	BUCK_T1	6	0	-6	0.12	0	-0.12	0	0	0	0	0	0	0	0
6/15/2024 20:59	60801	BUCK_T1	6	0	-6	0.12	0	-0.12	0	0	0	0	0	0	0	0
6/15/2024 20:59	10805	CHHI_T2	1	1	0	7.7	7.6	-0.1	-1.3	-1.34	1	1	0	600	600	0
6/15/2024 20:59	60803	BUCK_T1	13	12	-1	0.32	0.2	-0.12	-1.01	-1.03	1	1	0	600	600	0
6/15/2024 21:00	60803	BUCK_T1	5	12	7	0.1	0.21	0.11	-1.01	-1.03	1	1	0	600	600	0
6/15/2024 21:01	60803	BUCK_T1	5	12	7	0.1	0.21	0.11	-1.01	-1.03	1	1	0	600	600	0
6/15/2024 21:05	13503	MCMI_T2	0	24	24	0	0.14	0.14	-1.74	-1.76	0	0	0	0	0	0
6/15/2024 21:10	58003	WCAR_T1	1	3	2	1.5	0.53	-0.97	0.75	0.75	0	0	0	0	0	0
6/15/2024 21:10	58001	WCAR_T1	4	4	0	0.73	1.03	0.3	0	0	0	0	0	0	0	0
6/15/2024 21:19	55002	NEWP_T1	2	4	2	0.75	0.7	-0.05	-0.11	-0.12	0	0	0	0	0	0
6/15/2024 21:20	55002	NEWP_T1	2	4	2	0.75	0.7	-0.05	-0.23	-0.24	0	0	0	0	0	0
6/15/2024 21:25	20403	ASHF_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
6/15/2024 21:27	20403	ASHF_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
6/15/2024 21:36	40101	HUNT_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
6/15/2024 21:41	56802	BENV_T2	0	0	0	0	0	0	-1.28	-1.29	0	0	0	0	0	0
6/15/2024 21:42	56802	BENV_T2	0	0	0	0	0	0	-1.28	-1.29	0	0	0	0	0	0
6/15/2024 21:50	56802	BENV_T2	0	0	0	0	0	0	-1.28	-1.29	0	0	0	0	0	0
6/15/2024 21:51	66703	STRA_T1	0	3	3	0	0.17	0.17	-0.04	-0.08	0	0	0	0	0	0
6/15/2024 21:53	66703	STRA_T1	0	3	3	0	0.17	0.17	-0.04	-0.08	0	0	0	0	0	0
6/15/2024 22:04	12701	MACU_T1	0	0	0	0	0	0	-1.02	-1.03	1	1	0	1200	1200	0
6/15/2024 22:07	12701	MACU_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	1200	1200	0
6/15/2024 22:15	61701	ELIZ_T1	1	1	0	3.9	4.3	0.4	0.61	0.63	0	0	0	0	0	0
6/15/2024 22:24	62605	ENGL_T1	0	0	0	0	0	0	-1.1	-1.12	0	0	0	0	0	0
6/15/2024 22:24	62607	ENGL_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/15/2024 22:27	54201	PENN_T1	205	11	-194	0.45	0.66	0.21	-0.73	-0.71	0	0	0	0	0	0
6/15/2024 22:27	54203	PENN_T1	21	18	-3	1.17	0.87	-0.3	0	0	0	0	0	0	0	0
6/15/2024 22:27	54205	PENN_T1	18	0	-18	0.11	0	-0.11	0	0	0	0	0	0	0	0
6/15/2024 22:28	13501	MCMI_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
6/15/2024 22:29	61101	BERK_T5	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
6/15/2024 22:29	16102	BING_T2	10	11	1	0.17	0.19	0.02	0	0	0	0	0	0	0	0
6/15/2024 22:29	16101	BING_T2	0	0	0	0	0	0	0.6	0.57	0	0	0	0	0	0
6/15/2024 22:30	56504	ROCK_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
6/15/2024 22:30	45501	DERR_T2	1	1	0	0.2	0.5	0.3	-0.81	-0.77	2	2	0	1800	1800	0
6/15/2024 22:30	64701	LITI_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
6/15/2024 22:30	63804	HEMP_T1	1	1	0	5.5	5.3	-0.2	-0.16	-0.18	0	0	0	0	0	0
6/15/2024 22:30	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 22:30	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 22:30	56501	ROCK_T2	6	98	92	0.37	0.16	-0.21	0	0	0	0	0	0	0	0
6/15/2024 22:30	51604	DUKE_T2	0	0	0	0	0	0	-1.5	-1.53	1	1	0	900	900	0
6/15/2024 22:31	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/15/2024 22:31	51002	NHAR_T1	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
6/15/2024 22:31	51004	NHAR_T1	4	11	7	1.63	0.73	-0.9	-1.92	-1.95	0	0	0	0	0	0
6/15/2024 22:31	51003	NHAR_T1	144	188	44	0.2	0.25	0.05	0	0	0	0	0	0	0	0
6/15/2024 22:31	54201	PENN_T1	7	14	7	0.77	0.61	-0.16	-0.73	-0.71	0	0	0	0	0	0
6/15/2024 22:31	51604	DUKE_T2	0	0	0	0	0	0	-1.5	-1.53	1	1	0	900	900	0
6/15/2024 22:31	61701	ELIZ_T1	1	1	0	4.1	4.5	0.4	0.63	0.52	0	0	0	0	0	0
6/15/2024 22:31	64202	KINZ_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 22:31	64201	KINZ_T1	5	5	0	0.3	0.38	0.08	0.47	0.44	1	1	0	300	300	0
6/15/2024 22:31	51006	NHAR_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 22:31	65206	PRIN_T4	1	0	-1	5	0	-5	0	0	0	0	0	0	0	0
6/15/2024 22:31	54203	PENN_T1	18	18	0	0.72	1.01	0.29	0	0	0	0	0	0	0	0
6/15/2024 22:31	64204	KINZ_T1	5	1	-4	0.28	1.2	0.92	0	0	0	0	0	0	0	0
6/15/2024 22:32	64302	LINC_T2	0	0	0	0	0	0	1.13	1.07	0	0	0	0	0	0
6/15/2024 22:32	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 22:32	66504	SMAN_T2	0	0	0	0	0	0	-3.09	-3.14	2	2	0	2400	2400	0
6/15/2024 22:32	56801	BENV_T1	12	18	6	0.93	0.63	-0.3	-0.64	-0.65	1	1	0	600	600	0
6/15/2024 22:32	47401	PENS_T1	0	0	0	0	0	0	0.91	0.85	0	0	0	0	0	0
6/15/2024 22:32	45501	DERR_T2	1	1	0	0.2	0.5	0.3	-0.81	-0.77	2	2	0	1800	1800	0
6/15/2024 22:33	66903	SHIL_T2	260	891	631	0.29	0.34	0.05	0	0	0	0	0	0	0	0
6/15/2024 22:33	46101	MACI_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
6/15/2024 22:33	63401	HONY_T1	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
6/15/2024 22:33	67603	WARW_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/15/2024 22:33	58006	WCAR_T2	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
6/15/2024 22:33	65003	NEFF_T2	3	73	70	0.13	0.18	0.05	0	0	0	0	0	0	0	0
6/15/2024 22:33	29402	BELT_T1	23	47	24	0.71	0.73	0.02	0	0	0	0	0	0	0	0
6/15/2024 22:33	51604	DUKE_T2	0	0	0	0	0	0	-1.5	-1.53	1	1	0	900	900	0
6/15/2024 22:33	66901	SHIL_T2	387	616	229	0.52	0.64	0.12	-0.07	-0.09	0	0	0	0	0	0
6/15/2024 22:33	66902	SHIL_T2	487	897	410	0.35	0.52	0.17	0	0	0	0	0	0	0	0
6/15/2024 22:33	63404	HONY_T1	1	14	13	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/15/2024 22:33	65001	NEFF_T2	3	116	113	0.1	0.18	0.08	-1.05	-1.07	1	1	0	1200	1200	0
6/15/2024 22:33	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/15/2024 22:33	67605	WARW_T1	1	9	8	0.1	0.28	0.18	0	0	0	0	0	0	0	0
6/15/2024 22:34	46506	LOHA_T1	1	1	0	0.4	0.6	0.2	-0.3	-0.31	0	0	0	0	0	0
6/15/2024 22:34	10805	CHHI_T2	1	1	0	7.7	7.5	-0.2	-1.11	-1.04	1	1	0	600	600	0
6/15/2024 22:34	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/15/2024 22:34	29402	BELT_T1	23	47	24	0.71	0.73	0.02	0	0	0	0	0	0	0	0
6/15/2024 22:34	47001	HUGH_T2	0	0	0	0	0	0	-0.85	-0.88	0	0	0	0	0	0
6/15/2024 22:34	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:34	15601	NSTR_T2	3	2	-1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
6/15/2024 22:34	43301	WATS_T2	2	2	0	0.65	0.9	0.25	-0.52	-0.54	1	1	0	900	900	0
6/15/2024 22:34	44301	BEAV_T2	0	0	0	0	0	0	-1.03	-1.06	1	1	0	600	600	0
6/15/2024 22:34	51401	LYKE_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
6/15/2024 22:34	48302	ORWI_T2	2	2	0	1.3	1.2	-0.1	-0.64	-0.66	0	0	0	0	0	0
6/15/2024 22:34	13905	SEID_T1	0	0	0	0	0	0	-0.83	-0.86	1	1	0	1200	1200	0
6/15/2024 22:34	56501	ROCK_T2	6	98	92	0.37	0.16	-0.21	-1.03	-1.08	0	0	0	0	0	0
6/15/2024 22:34	15603	NSTR_T2	0	0	0	0	0	0	-0.6	-0.53	0	0	0	0	0	0
6/15/2024 22:34	20403	ASHF_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
6/15/2024 22:34	46504	LOHA_T1	2	15	13	1.25	0.27	-0.98	0	0	0	0	0	0	0	0
6/15/2024 22:34	16302	ALPA_T2	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
6/15/2024 22:34	43302	WATS_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
6/15/2024 22:34	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:34	51604	DUKE_T2	0	0	0	0	0	0	-3	-3.06	2	2	0	1800	1800	0
6/15/2024 22:34	65603	QVIL_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
6/15/2024 22:35	10801	CHHI_T1	0	0	0	0	0	0	-1.84	-1.88	3	3	0	2100	2100	0
6/15/2024 22:35	40302	TAMA_T3	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
6/15/2024 22:35	12301	LANA_T2	0	0	0	0	0	0	-1.21	-1.22	0	0	0	0	0	0
6/15/2024 22:35	58001	WCAR_T1	4	4	0	1	1.18	0.18	0	0	0	0	0	0	0	0
6/15/2024 22:35	52004	LING_T2	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
6/15/2024 22:35	48302	ORWI_T2	2	2	0	1.3	1.2	-0.1	-0.64	-0.66	0	0	0	0	0	0
6/15/2024 22:35	47802	MOCA_T2	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
6/15/2024 22:35	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:35	24902	WHHA_T1	1	2	1	0.4	0.5	0.1	0.61	0.61	0	0	0	0	0	0
6/15/2024 22:35	58003	WCAR_T1	1	7	6	1.3	0.33	-0.97	0.73	0.72	0	0	0	0	0	0
6/15/2024 22:35	51603	DUKE_T1	0	0	0	0	0	0	-0.84	-0.88	0	0	0	0	0	0
6/15/2024 22:35	64101	REFR_T1	0	2	2	0	0.1	0.1	0.15	0.13	0	0	0	0	0	0
6/15/2024 22:36	64101	REFR_T1	0	2	2	0	0.1	0.1	0.13	0.11	0	0	0	0	0	0
6/15/2024 22:36	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 22:36	56501	ROCK_T2	6	98	92	0.37	0.16	-0.21	-1.03	-1.08	0	0	0	0	0	0
6/15/2024 22:36	45501	DERR_T2	1	1	0	0.2	0.5	0.3	-0.77	-0.81	2	2	0	1800	1800	0
6/15/2024 22:36	64902	MILL_T2	0	0	0	0	0	0	-1.1	-1.12	1	1	0	900	900	0
6/15/2024 22:36	51107	CARL_T1	0	0	0	0	0	0	-0.09	-0.15	0	0	0	0	0	0
6/15/2024 22:36	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:36	29402	BELT_T1	23	47	24	0.71	0.73	0.02	0	0	0	0	0	0	0	0
6/15/2024 22:36	67605	WARW_T1	1	9	8	0.1	0.28	0.18	-2.52	-2.58	0	0	0	0	0	0
6/15/2024 22:36	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 22:36	47101	MARL_T1	0	0	0	0	0	0	-0.76	-0.79	0	0	0	0	0	0
6/15/2024 22:36	51102	CARL_T1	2	35	33	0.1	0.17	0.07	0	0	0	0	0	0	0	0
6/15/2024 22:36	58003	WCAR_T1	1	7	6	1.3	0.33	-0.97	0.73	0.72	0	0	0	0	0	0
6/15/2024 22:36	51101	CARL_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/15/2024 22:36	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:36	58001	WCAR_T1	4	4	0	1	1.18	0.18	0	0	0	0	0	0	0	0
6/15/2024 22:36	51604	DUKE_T2	0	0	0	0	0	0	-1.5	-1.53	1	1	0	900	900	0
6/15/2024 22:36	42701	AUGU_T1	55	37	-18	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
6/15/2024 22:36	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/15/2024 22:37	56801	BENV_T1	12	18	6	0.93	0.63	-0.3	-0.65	-0.67	1	1	0	600	600	0
6/15/2024 22:37	63401	HONY_T1	0	0	0	0	0	0	0.35	0.26	0	0	0	0	0	0
6/15/2024 22:37	63404	HONY_T1	1	14	13	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/15/2024 22:37	25404	LAHA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 22:37	10805	CHHI_T2	1	1	0	7.7	7.5	-0.2	-1.04	-1.16	1	1	0	600	600	0
6/15/2024 22:37	62102	ELAN_T1	0	0	0	0	0	0	0.95	0.95	0	0	0	0	0	0
6/15/2024 22:37	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
6/15/2024 22:37	63304	GREE_T1	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
6/15/2024 22:37	64101	REFR_T1	0	2	2	0	0.1	0.1	0.13	0.11	0	0	0	0	0	0
6/15/2024 22:37	44601	SALE_T2	1	1	0	0.3	0.4	0.1	-0.07	-0.08	0	0	0	0	0	0
6/15/2024 22:37	42903	MIDD_T2	2	2	0	0.45	0.6	0.15	-0.32	-0.33	0	0	0	0	0	0
6/15/2024 22:37	15604	NSTR_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
6/15/2024 22:37	12604	MACA_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
6/15/2024 22:37	16302	ALPA_T2	0	0	0	0	0	0	1.33	1.31	0	0	0	0	0	0
6/15/2024 22:37	61102	BERK_T5	0	0	0	0	0	0	0.51	0.53	1	1	0	300	300	0
6/15/2024 22:37	25402	LAHA_T2	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
6/15/2024 22:38	51604	DUKE_T2	0	0	0	0	0	0	-1.53	-1.56	1	1	0	900	900	0
6/15/2024 22:38	64802	MONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 22:38	29402	BELT_T1	23	47	24	0.71	0.73	0.02	0	0	0	0	0	0	0	0
6/15/2024 22:38	52404	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/15/2024 22:38	41902	REED_T1	0	0	0	0	0	0	1.02	0.99	0	0	0	0	0	0
6/15/2024 22:38	52401	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/15/2024 22:38	56501	ROCK_T2	6	98	92	0.37	0.16	-0.21	-1.08	-1.12	0	0	0	0	0	0
6/15/2024 22:38	67602	WARW_T2	0	0	0	0	0	0	0	-0.01	1	1	0	1200	1200	0
6/15/2024 22:38	52002	LING_T2	0	0	0	0	0	0	0.15	0.09	0	0	0	0	0	0
6/15/2024 22:38	51004	NHAR_T1	4	11	7	1.63	0.73	-0.9	0	0	0	0	0	0	0	0
6/15/2024 22:38	56802	BENV_T2	0	1	1	0	0.2	0.2	-1.26	-1.24	0	0	0	0	0	0
6/15/2024 22:38	51603	DUKE_T1	0	0	0	0	0	0	-1.75	-1.85	0	0	0	0	0	0
6/15/2024 22:38	51003	NHAR_T1	144	188	44	0.2	0.25	0.05	-2.1	-2.11	1	1	0	1200	1200	0
6/15/2024 22:38	16102	BING_T2	6	15	9	0.17	0.35	0.18	0.38	0.36	0	0	0	0	0	0
6/15/2024 22:38	59202	THOM_T1	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
6/15/2024 22:38	52403	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/15/2024 22:38	41901	REED_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/15/2024 22:38	52402	GRPA_T2	4	4	0	0.28	0.55	0.27	-0.73	-0.75	0	0	0	0	0	0
6/15/2024 22:38	10102	ALLE_T2	1	1	0	7.4	7.1	-0.3	0	0	0	0	0	0	0	0
6/15/2024 22:38	59201	THOM_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
6/15/2024 22:38	51006	NHAR_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 22:38	51002	NHAR_T1	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
6/15/2024 22:38	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:38	40602	PIGR_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/15/2024 22:38	56801	BENV_T1	12	18	6	0.93	0.63	-0.3	-0.65	-0.67	1	1	0	600	600	0
6/15/2024 22:38	64801	MONE_T2	0	0	0	0	0	0	0.43	0.52	0	0	0	0	0	0
6/15/2024 22:38	67605	WARW_T1	1	9	8	0.1	0.28	0.18	-2.52	-2.58	0	0	0	0	0	0
6/15/2024 22:39	62102	ELAN_T1	0	0	0	0	0	0	0.95	0.95	0	0	0	0	0	0
6/15/2024 22:39	67203	TEHI_T1	0	0	0	0	0	0	0.95	0.94	0	0	0	0	0	0
6/15/2024 22:39	56501	ROCK_T2	6	98	92	0.37	0.16	-0.21	-1.08	-1.12	0	0	0	0	0	0
6/15/2024 22:39	53903	HALI_T2	2	2	0	1.25	1.8	0.55	0	0	0	0	0	0	0	0
6/15/2024 22:39	12604	MACA_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
6/15/2024 22:39	66504	SMAN_T2	0	0	0	0	0	0	-1.57	-1.59	1	1	0	1200	1200	0
6/15/2024 22:39	58006	WCAR_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
6/15/2024 22:39	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:39	14203	EALL_T1	0	0	0	0	0	0	-0.14	-0.14	1	1	0	1200	1200	0
6/15/2024 22:39	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:39	65205	PRIN_T1	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
6/15/2024 22:39	56504	ROCK_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
6/15/2024 22:39	53901	HALI_T2	1	1	0	0.8	1.1	0.3	-1.28	-1.3	0	0	0	0	0	0
6/15/2024 22:39	15604	NSTR_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
6/15/2024 22:39	53902	HALI_T2	1	1	0	5.7	6	0.3	0	0	0	0	0	0	0	0
6/15/2024 22:39	47401	PENS_T1	0	0	0	0	0	0	0.85	0.87	0	0	0	0	0	0
6/15/2024 22:39	56801	BENV_T1	12	18	6	0.93	0.63	-0.3	-0.65	-0.67	1	1	0	600	600	0
6/15/2024 22:39	42701	AUGU_T1	55	37	-18	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
6/15/2024 22:39	64101	REFR_T1	0	2	2	0	0.1	0.1	0.13	0.11	0	0	0	0	0	0
6/15/2024 22:39	42201	SHEN_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
6/15/2024 22:40	64101	REFR_T1	0	2	2	0	0.1	0.1	0.13	0.11	0	0	0	0	0	0
6/15/2024 22:40	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:40	56501	ROCK_T2	6	98	92	0.37	0.16	-0.21	-2.15	-2.24	0	0	0	0	0	0
6/15/2024 22:40	12803	MICK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 22:40	45501	DERR_T2	1	1	0	0.2	0.5	0.3	-0.77	-0.81	2	2	0	1800	1800	0
6/15/2024 22:40	54203	PENN_T1	18	18	0	0.72	1.01	0.29	0.28	0.27	0	0	0	0	0	0
6/15/2024 22:40	52402	GRPA_T2	4	4	0	0.28	0.55	0.27	0	0	0	0	0	0	0	0
6/15/2024 22:40	55508	HERS_T2	2	2	0	0.4	0.7	0.3	-2.37	-2.38	1	1	0	1200	1200	0
6/15/2024 22:40	52403	GRPA_T2	0	2	2	0	0.2	0.2	-0.44	-0.46	0	0	0	0	0	0
6/15/2024 22:40	43302	WATS_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
6/15/2024 22:40	40502	CRES_T2	12	22	10	0.22	0.36	0.14	-0.33	-0.35	0	0	0	0	0	0
6/15/2024 22:40	54701	NEBL_T1	1	1	0	1.6	1.7	0.1	0	0	1	1	0	600	600	0
6/15/2024 22:40	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:40	67604	WARW_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
6/15/2024 22:40	12801	MICK_T1	0	0	0	0	0	0	-1.04	-1.06	1	1	0	600	600	0
6/15/2024 22:40	67605	WARW_T1	1	9	8	0.1	0.28	0.18	0	0	0	0	0	0	0	0
6/15/2024 22:40	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 22:40	10805	CHHI_T2	1	1	0	7.7	7.5	-0.2	-1.04	-1.16	1	1	0	600	600	0
6/15/2024 22:40	43301	WATS_T2	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
6/15/2024 22:40	43304	WATS_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
6/15/2024 22:40	25503	MADI_T1	10	121	111	0.13	0.46	0.33	-0.93	-0.94	0	0	0	0	0	0
6/15/2024 22:40	52404	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/15/2024 22:40	54201	PENN_T1	7	14	7	0.77	0.61	-0.16	0	0	0	0	0	0	0	0
6/15/2024 22:40	49803	UNIV_T1	0	0	0	0	0	0	-1.05	-1.09	0	0	0	0	0	0
6/15/2024 22:40	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:40	52401	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/15/2024 22:41	53302	GRAT_T2	57	66	9	0.75	0.88	0.13	0	0	0	0	0	0	0	0
6/15/2024 22:41	12005	HATF_T1	2	4	2	0.35	0.18	-0.17	0	0	0	0	0	0	0	0
6/15/2024 22:41	45402	WBLO_T2	2	2	0	0.8	1.15	0.35	-1.64	-1.66	1	1	0	900	900	0
6/15/2024 22:41	24702	FLND_T2	0	0	0	0	0	0	-0.61	-0.4	1	1	0	1200	1200	0
6/15/2024 22:41	61102	BERK_T5	0	0	0	0	0	0	0.51	0.53	1	1	0	300	300	0
6/15/2024 22:41	46504	LOHA_T1	2	15	13	1.25	0.27	-0.98	0	0	0	0	0	0	0	0
6/15/2024 22:41	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
6/15/2024 22:41	24201	PROV_T3	1	1	0	6.8	6.6	-0.2	-1.29	-1.31	1	1	0	1200	1200	0
6/15/2024 22:41	51604	DUKE_T2	0	0	0	0	0	0	-3.06	-3.13	2	2	0	1800	1800	0
6/15/2024 22:41	10801	CHHI_T1	0	0	0	0	0	0	-3.76	-2.53	6	4	-2	4200	3000	-1200
6/15/2024 22:41	63401	HONY_T1	0	0	0	0	0	0	1.06	0.77	0	0	0	0	0	0
6/15/2024 22:41	46502	LOHA_T1	0	0	0	0	0	0	-1.29	-1.3	2	2	0	2400	2400	0
6/15/2024 22:41	24204	PROV_T3	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
6/15/2024 22:41	64101	REFR_T1	0	2	2	0	0.1	0.1	0.25	0.22	0	0	0	0	0	0
6/15/2024 22:41	16302	ALPA_T2	0	0	0	0	0	0	0.67	0.65	0	0	0	0	0	0
6/15/2024 22:41	61103	BERK_T5	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
6/15/2024 22:41	63404	HONY_T1	1	14	13	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/15/2024 22:41	55101	WERT_T1	0	0	0	0	0	0	-1.54	-1.54	2	2	0	1800	1800	0
6/15/2024 22:41	12006	HATF_T1	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
6/15/2024 22:41	46506	LOHA_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/15/2024 22:42	51101	CARL_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
6/15/2024 22:42	63804	HEMP_T1	1	1	0	5.5	5.3	-0.2	-0.18	-0.19	0	0	0	0	0	0
6/15/2024 22:42	54001	SDLE_T1	4	1	-3	0.3	0.5	0.2	0	0	1	1	0	600	600	0
6/15/2024 22:42	24603	VARD_T2	12	34	22	0.23	0.26	0.03	-0.17	-0.17	0	0	0	0	0	0
6/15/2024 22:42	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 22:42	47001	HUGH_T2	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
6/15/2024 22:42	44301	BEAV_T2	0	0	0	0	0	0	-1.06	-1.09	1	1	0	600	600	0
6/15/2024 22:42	16301	ALPA_T1	1	20	19	0.5	0.15	-0.35	-0.17	-0.2	0	0	0	0	0	0
6/15/2024 22:42	24602	VARD_T2	540	716	176	0.7	0.81	0.11	-1.04	-1.05	0	0	0	0	0	0
6/15/2024 22:42	51102	CARL_T1	2	35	33	0.1	0.17	0.07	0	0	0	0	0	0	0	0
6/15/2024 22:42	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:42	12601	MACA_T1	0	0	0	0	0	0	0.92	0.9	0	0	0	0	0	0
6/15/2024 22:42	51108	CARL_T1	0	1	1	0	0.1	0.1	-1.04	-1.07	1	1	0	600	600	0
6/15/2024 22:42	14601	SWHI_T1	0	0	0	0	0	0	-1.42	-0.76	0	0	0	0	0	0
6/15/2024 22:42	44601	SALE_T2	1	1	0	0.3	0.4	0.1	-0.07	-0.08	0	0	0	0	0	0
6/15/2024 22:42	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:43	11804	FRAN_T1	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
6/15/2024 22:43	46504	LOHA_T1	2	15	13	1.25	0.27	-0.98	0	0	0	0	0	0	0	0
6/15/2024 22:43	23403	HONE_T1	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
6/15/2024 22:43	14404	SSLA_T1	1	1	0	4.3	4.8	0.5	0.06	0.05	0	0	0	0	0	0
6/15/2024 22:43	56501	ROCK_T2	6	98	92	0.37	0.16	-0.21	-1.08	-1.12	0	0	0	0	0	0
6/15/2024 22:43	43302	WATS_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
6/15/2024 22:43	65901	SAKR_T2	1	1	0	7.8	8.1	0.3	0	0	0	0	0	0	0	0
6/15/2024 22:43	67204	TEHI_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
6/15/2024 22:43	43304	WATS_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
6/15/2024 22:43	65902	SAKR_T2	0	0	0	0	0	0	-0.64	-0.65	1	1	0	300	300	0
6/15/2024 22:43	44601	SALE_T2	1	1	0	0.3	0.4	0.1	-0.07	-0.08	0	0	0	0	0	0
6/15/2024 22:43	52403	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/15/2024 22:43	40902	JESH_T1	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
6/15/2024 22:43	40901	JESH_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/15/2024 22:43	46506	LOHA_T1	1	1	0	0.4	0.6	0.2	-0.31	-0.32	0	0	0	0	0	0
6/15/2024 22:43	67602	WARW_T2	0	0	0	0	0	0	0	-0.01	1	1	0	1200	1200	0
6/15/2024 22:43	52402	GRPA_T2	4	4	0	0.28	0.55	0.27	0	0	0	0	0	0	0	0
6/15/2024 22:43	52404	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/15/2024 22:43	47101	MARL_T1	0	0	0	0	0	0	-0.79	-0.21	0	0	0	0	0	0
6/15/2024 22:43	67901	WNHO_T2	85	78	-7	0.28	0.27	-0.01	-0.44	-0.45	0	0	0	0	0	0
6/15/2024 22:43	22003	BOHE_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
6/15/2024 22:43	52401	GRPA_T2	1	1	0	0.5	0.8	0.3	-0.51	-0.52	0	0	0	0	0	0
6/15/2024 22:43	46101	MACI_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
6/15/2024 22:43	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:43	43301	WATS_T2	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
6/15/2024 22:43	14403	SSLA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/15/2024 22:44	55101	WERT_T1	0	0	0	0	0	0	-1.54	-1.54	2	2	0	1800	1800	0
6/15/2024 22:44	56501	ROCK_T2	6	98	92	0.37	0.16	-0.21	-1.08	-1.12	0	0	0	0	0	0
6/15/2024 22:44	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/15/2024 22:44	46504	LOHA_T1	2	15	13	1.25	0.27	-0.98	0	0	0	0	0	0	0	0
6/15/2024 22:44	63804	HEMP_T1	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
6/15/2024 22:44	40902	JESH_T1	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
6/15/2024 22:44	46506	LOHA_T1	1	1	0	0.4	0.6	0.2	-0.31	-0.32	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/15/2024 22:44	57303	MOAL_T2	1	1	0	7.4	7	-0.4	0	0	0	0	0	0	0	0
6/15/2024 22:44	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:44	58401	MORO_T1	0	0	0	0	0	0	-1.49	-1.51	2	2	0	1200	1200	0
6/15/2024 22:44	29402	BELT_T1	23	47	24	0.71	0.73	0.02	0	0	0	0	0	0	0	0
6/15/2024 22:44	47001	HUGH_T2	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
6/15/2024 22:44	54505	ENOL_T2	0	1	1	0	0.4	0.4	-1.09	-1.1	1	1	0	600	600	0
6/15/2024 22:44	64101	REFR_T1	0	2	2	0	0.1	0.1	0.13	0.11	0	0	0	0	0	0
6/15/2024 22:44	66303	MCGO_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/15/2024 22:44	57304	MOAL_T2	0	0	0	0	0	0	-0.07	-0.23	0	0	0	0	0	0
6/15/2024 22:44	67605	WARW_T1	1	9	8	0.1	0.28	0.18	-1.26	-1.29	0	0	0	0	0	0
6/15/2024 22:44	66301	MCGO_T2	3	0	-3	0.1	0	-0.1	-1.25	-0.34	0	0	0	0	0	0
6/15/2024 22:44	45802	HEGI_T2	47	47	0	0.88	0.91	0.03	1.47	1.35	0	0	0	0	0	0
6/15/2024 22:44	52002	LING_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
6/15/2024 22:44	63801	HEMP_T1	0	1	1	0	0.1	0.1	-1.05	-0.09	1	0	-1	900	0	-900
6/15/2024 22:44	20403	ASHF_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
6/15/2024 22:44	40901	JESH_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/15/2024 22:44	10705	CATA_T2	0	0	0	0	0	0	-2.03	-1.07	1	0	-1	900	0	-900
6/15/2024 22:44	56801	BENV_T1	12	18	6	0.93	0.63	-0.3	-0.65	-0.67	1	1	0	600	600	0
6/15/2024 22:45	43301	WATS_T2	2	1	-1	0.65	0.8	0.15	0	0	0	0	0	0	0	0
6/15/2024 22:45	45501	DERR_T2	1	1	0	0.2	0.5	0.3	-0.77	-0.81	2	2	0	1800	1800	0
6/15/2024 22:45	67602	WARW_T2	0	0	0	0	0	0	0.01	-0.02	2	2	0	2400	2400	0
6/15/2024 22:45	20603	GRWO_T2	0	1	1	0	0.1	0.1	0.37	0.37	0	0	0	0	0	0
6/15/2024 22:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:45	10801	CHHI_T1	0	0	0	0	0	0	-1.88	-1.26	3	2	-1	2100	1500	-600
6/15/2024 22:45	61102	BERK_T5	0	0	0	0	0	0	0.51	0.53	1	1	0	300	300	0
6/15/2024 22:45	13302	ORVI_T2	0	0	0	0	0	0	1.57	1.38	0	0	0	0	0	0
6/15/2024 22:45	20401	ASHF_T2	0	15	15	0	0.17	0.17	0	0	0	0	0	0	0	0
6/15/2024 22:45	51604	DUKE_T2	0	0	0	0	0	0	-1.53	-1.56	1	1	0	900	900	0
6/15/2024 22:45	64101	REFR_T1	1	2	1	0	0.1	0.1	0.38	0.32	0	0	0	0	0	0
6/15/2024 22:45	58003	WCAR_T1	7	1	-6	0.33	1.1	0.77	0.72	0.72	0	0	0	0	0	0
6/15/2024 22:45	13503	MCMI_T2	0	0	0	0	0	0	-0.9	-0.01	0	0	0	0	0	0
6/15/2024 22:45	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/15/2024 22:45	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/15/2024 22:45	43202	MVIL_T2	37	54	17	0.17	0.29	0.12	0	0	0	0	0	0	0	0
6/15/2024 22:45	20601	GRWO_T2	0	8	8	0	0.15	0.15	0	0	0	0	0	0	0	0
6/15/2024 22:45	43201	MVIL_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
6/15/2024 22:45	20403	ASHF_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
6/15/2024 22:45	43302	WATS_T2	4	4	0	0.18	0.25	0.07	0	0	0	0	0	0	0	0
6/15/2024 22:45	43304	WATS_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
6/15/2024 22:45	58001	WCAR_T1	4	4	0	1.18	0.78	-0.4	0	0	0	0	0	0	0	0
6/15/2024 22:46	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:46	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:46	67605	WARW_T1	2	13	11	0.1	0.45	0.35	-1.26	-1.29	0	0	0	0	0	0
6/15/2024 22:46	46506	LOHA_T1	1	1	0	0.4	0.6	0.2	-0.31	-0.32	0	0	0	0	0	0
6/15/2024 22:46	14403	SSLA_T1	0	0	0	0	0	0	0.11	0.08	1	1	0	600	600	0
6/15/2024 22:46	21205	ECAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:46	52002	LING_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
6/15/2024 22:46	13503	MCMI_T2	0	0	0	0	0	0	-0.9	-0.01	0	0	0	0	0	0
6/15/2024 22:46	65401	MARI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:46	21203	ECAR_T1	0	14	14	0	0.21	0.21	0.51	0.5	0	0	0	0	0	0
6/15/2024 22:46	14404	SSLA_T1	1	1	0	4.5	4.9	0.4	0	0	0	0	0	0	0	0
6/15/2024 22:46	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:46	40603	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:46	46504	LOHA_T1	15	5	-10	0.27	0.6	0.33	0	0	0	0	0	0	0	0
6/15/2024 22:47	40501	CRES_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/15/2024 22:47	63804	HEMP_T1	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
6/15/2024 22:47	44301	BEAV_T2	0	1	1	0	0	0	-1.06	-1.09	1	1	0	600	600	0
6/15/2024 22:47	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	-1.05	-0.09	1	0	-1	900	0	-900
6/15/2024 22:47	46504	LOHA_T1	15	5	-10	0.27	0.6	0.33	0	0	0	0	0	0	0	0
6/15/2024 22:47	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:47	49803	UNIV_T1	0	0	0	0	0	0	-1.05	-1.09	0	0	0	0	0	0
6/15/2024 22:47	46004	BERW_T2	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
6/15/2024 22:47	67605	WARW_T1	2	13	11	0.1	0.45	0.35	-1.26	-1.29	0	0	0	0	0	0
6/15/2024 22:47	40502	CRES_T2	20	22	2	0.34	0.37	0.03	-0.33	-0.35	0	0	0	0	0	0
6/15/2024 22:47	51603	DUKE_T1	0	0	0	0	0	0	-0.88	-0.92	0	0	0	0	0	0
6/15/2024 22:47	52504	PROG_T1	26	0	-26	0.11	0	-0.11	0	0	0	0	0	0	0	0
6/15/2024 22:47	46002	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:47	63304	GREE_T1	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
6/15/2024 22:47	56801	BENV_T1	18	17	-1	0.63	0.62	-0.01	-1.31	-1.34	2	2	0	1200	1200	0
6/15/2024 22:47	27004	BELL_T1	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/15/2024 22:47	27005	BELL_T1	0	0	0	0	0	0	-1.67	-1.69	0	0	0	0	0	0
6/15/2024 22:47	52501	PROG_T1	1	0	-1	0.2	0	-0.2	0.63	0.6	1	1	0	300	300	0
6/15/2024 22:47	46506	LOHA_T1	1	1	0	0.4	0.6	0.2	-0.62	-0.63	0	0	0	0	0	0
6/15/2024 22:48	43302	WATS_T2	4	4	0	0.18	0.25	0.07	0	0	0	0	0	0	0	0
6/15/2024 22:48	43301	WATS_T2	2	1	-1	0.65	0.8	0.15	0	0	0	0	0	0	0	0
6/15/2024 22:48	61801	EELI_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
6/15/2024 22:48	56504	ROCK_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
6/15/2024 22:48	51604	DUKE_T2	0	0	0	0	0	0	-1.53	-1.56	1	1	0	900	900	0
6/15/2024 22:48	43304	WATS_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
6/15/2024 22:48	58401	MORO_T1	0	0	0	0	0	0	-1.49	-1.51	2	2	0	1200	1200	0
6/15/2024 22:48	56501	ROCK_T2	97	4	-93	0.16	0.53	0.37	0	0	0	0	0	0	0	0
6/15/2024 22:49	67605	WARW_T1	2	13	11	0.1	0.45	0.35	-1.26	-1.29	0	0	0	0	0	0
6/15/2024 22:49	44301	BEAV_T2	0	1	1	0	0	0	-1.06	-1.09	1	1	0	600	600	0
6/15/2024 22:49	52402	GRPA_T2	4	4	0	0.55	0.33	-0.22	0	0	0	0	0	0	0	0
6/15/2024 22:49	55002	NEWP_T1	5	5	0	1.12	1.06	-0.06	-0.15	-0.16	0	0	0	0	0	0
6/15/2024 22:49	56504	ROCK_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
6/15/2024 22:49	43304	WATS_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
6/15/2024 22:49	64204	KINZ_T1	1	3	2	1	0.53	-0.47	0	0	0	0	0	0	0	0
6/15/2024 22:49	52004	LING_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
6/15/2024 22:49	67204	TEHI_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
6/15/2024 22:49	21601	EYNO_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
6/15/2024 22:49	43301	WATS_T2	2	1	-1	0.65	0.8	0.15	0	0	0	0	0	0	0	0
6/15/2024 22:49	64201	KINZ_T1	1	6	5	1.1	0.46	-0.64	0	0	0	0	0	0	0	0
6/15/2024 22:49	43302	WATS_T2	4	4	0	0.18	0.25	0.07	0	0	0	0	0	0	0	0
6/15/2024 22:49	40101	HUNT_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
6/15/2024 22:49	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/15/2024 22:49	41902	REED_T1	0	0	0	0	0	0	1.02	0.99	0	0	0	0	0	0
6/15/2024 22:49	56801	BENV_T1	18	17	-1	0.63	0.62	-0.01	-1.96	-2.01	3	3	0	1800	1800	0
6/15/2024 22:49	56501	ROCK_T2	97	4	-93	0.16	0.53	0.37	0	0	0	0	0	0	0	0
6/15/2024 22:49	45402	WBLO_T2	2	2	0	0.9	1.3	0.4	-1.64	-1.66	1	1	0	900	900	0
6/15/2024 22:49	52401	GRPA_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
6/15/2024 22:49	64203	KINZ_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
6/15/2024 22:49	52403	GRPA_T2	2	2	0	0.1	0.2	0.1	-0.44	-0.46	0	0	0	0	0	0
6/15/2024 22:49	41901	REED_T1	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
6/15/2024 22:49	47401	PENS_T1	0	0	0	0	0	0	0.85	0.87	0	0	0	0	0	0
6/15/2024 22:49	64202	KINZ_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/15/2024 22:50	41902	REED_T1	0	0	0	0	0	0	1.02	0.99	0	0	0	0	0	0
6/15/2024 22:50	41901	REED_T1	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
6/15/2024 22:51	18502	CANA_T2	0	0	0	0	0	0	0.7	0.69	0	0	0	0	0	0
6/15/2024 22:51	54001	SDLE_T1	1	1	0	0.5	0.3	-0.2	0	0	1	1	0	600	600	0
6/15/2024 22:51	67901	WNHO_T2	44	90	46	0.23	0.29	0.06	-0.45	-0.46	0	0	0	0	0	0
6/15/2024 22:51	65401	MARI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:51	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/15/2024 22:51	52402	GRPA_T2	4	4	0	0.55	0.33	-0.22	0	0	0	0	0	0	0	0
6/15/2024 22:51	52002	LING_T2	0	0	0	0	0	0	0.15	0.09	0	0	0	0	0	0
6/15/2024 22:51	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/15/2024 22:51	52401	GRPA_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
6/15/2024 22:51	52403	GRPA_T2	2	2	0	0.1	0.2	0.1	-0.44	-0.46	0	0	0	0	0	0
6/15/2024 22:51	67602	WARW_T2	0	0	0	0	0	0	-2.01	-3.03	1	1	0	1200	1200	0
6/15/2024 22:51	64101	REFR_T1	1	2	1	0	0.1	0.1	0.22	0.61	0	0	0	0	0	0
6/15/2024 22:52	52402	GRPA_T2	4	4	0	0.55	0.33	-0.22	-0.75	-0.76	0	0	0	0	0	0
6/15/2024 22:52	52401	GRPA_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
6/15/2024 22:52	49804	UNIV_T1	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
6/15/2024 22:52	46901	MNTG_T2	0	0	0	0	0	0	0.26	0.21	0	0	0	0	0	0
6/15/2024 22:52	46903	MNTG_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/15/2024 22:52	52403	GRPA_T2	2	2	0	0.1	0.2	0.1	-0.46	-0.48	0	0	0	0	0	0
6/15/2024 22:52	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/15/2024 22:54	56801	BENV_T1	18	17	-1	0.63	0.62	-0.01	-0.67	-0.69	1	1	0	600	600	0
6/15/2024 22:54	40101	HUNT_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
6/15/2024 22:55	47101	MARL_T1	0	0	0	0	0	0	-0.42	-0.45	0	0	0	0	0	0
6/15/2024 23:15	43302	WATS_T2	4	4	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
6/15/2024 23:15	43304	WATS_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
6/15/2024 23:15	43301	WATS_T2	1	1	0	0.5	1.2	0.7	0	0	0	0	0	0	0	0
6/15/2024 23:28	52402	GRPA_T2	3	3	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
6/15/2024 23:28	52401	GRPA_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/15/2024 23:28	52403	GRPA_T2	1	2	1	0.1	0.1	0	-0.5	-0.51	0	0	0	0	0	0
6/15/2024 23:30	56501	ROCK_T2	1	3	2	0.1	3.33	3.23	0	0	0	0	0	0	0	0
6/15/2024 23:30	56504	ROCK_T2	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
6/16/2024 1:09	61701	ELIZ_T1	1	1	0	4.7	5.1	0.4	0.24	0.08	0	0	0	0	0	0
6/16/2024 4:07	65901	SAKR_T2	1	1	0	8.7	8.8	0.1	-1.31	-1.32	1	1	0	900	900	0
6/16/2024 4:24	67605	WARW_T1	19	23	4	0.73	0.72	-0.01	0	0	0	0	0	0	0	0
6/16/2024 4:24	67603	WARW_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
6/16/2024 6:18	24201	PROV_T3	1	1	0	6.5	6.4	-0.1	-0.18	-0.18	0	0	0	0	0	0
6/16/2024 6:18	24204	PROV_T3	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
6/16/2024 6:21	56501	ROCK_T2	4	2	-2	0.45	1.55	1.1	-0.13	-0.13	0	0	0	0	0	0
6/16/2024 6:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/16/2024 6:26	29402	BELT_T1	1	1	0	7.9	8	0.1	0	0	0	0	0	0	0	0
6/16/2024 6:28	62605	ENGL_T1	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
6/16/2024 6:32	52501	PROG_T1	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
6/16/2024 6:33	62607	ENGL_T1	0	0	0	0	0	0	-1.07	-1.08	1	1	0	300	300	0
6/16/2024 6:35	52503	PROG_T2	0	0	0	0	0	0	-0.8	-0.8	1	1	0	900	900	0
6/16/2024 6:35	67501	WEWI_T1	11	1	-10	0.13	0.3	0.17	0	0	0	0	0	0	0	0
6/16/2024 6:37	60801	BUCK_T1	181	180	-1	0.55	0.51	-0.04	-0.2	-0.19	0	0	0	0	0	0
6/16/2024 6:37	60803	BUCK_T1	14	14	0	0.31	0.21	-0.1	0	0	0	0	0	0	0	0
6/16/2024 6:38	67503	WEWI_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
6/16/2024 6:38	67502	WEWI_T2	0	156	156	0	0.14	0.14	0	0	0	0	0	0	0	0
6/16/2024 6:39	67503	WEWI_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
6/16/2024 6:39	67502	WEWI_T2	0	156	156	0	0.14	0.14	0	0	0	0	0	0	0	0
6/16/2024 6:45	62607	ENGL_T1	0	0	0	0	0	0	-1.08	-1.08	1	1	0	300	300	0
6/16/2024 6:48	52503	PROG_T2	0	7	7	0	0	0	-0.8	-0.8	1	1	0	900	900	0
6/16/2024 6:52	66703	STRA_T1	13	2	-11	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
6/16/2024 6:52	66701	STRA_T1	0	0	0	0	0	0	-0.03	0.04	1	1	0	600	600	0
6/16/2024 6:52	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/16/2024 6:52	29402	BELT_T1	1	2	1	8	8	0	0	0	0	0	0	0	0	0
6/16/2024 6:54	51303	WIND_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
6/16/2024 6:54	60802	BUCK_T2	351	284	-67	0.42	0.37	-0.05	0.22	0.22	0	0	0	0	0	0
6/16/2024 6:55	16301	ALPA_T1	126	65	-61	0.15	0.16	0.01	-0.43	-0.45	0	0	0	0	0	0
6/16/2024 6:55	51303	WIND_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
6/16/2024 6:56	51303	WIND_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
6/16/2024 6:57	29402	BELT_T1	1	2	1	8	8	0	0	0	0	0	0	0	0	0
6/16/2024 6:57	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/16/2024 6:58	54503	ENOL_T2	0	1	1	0	0	0	-1.91	-1.93	1	1	0	600	600	0
6/16/2024 6:58	54502	ENOL_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
6/16/2024 6:58	54501	ENOL_T2	4	3	-1	0.28	0.13	-0.15	0	0	0	0	0	0	0	0
6/16/2024 6:58	54505	ENOL_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
6/16/2024 6:59	26402	INOR_T1	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
6/16/2024 6:59	11504	FREE_T1	0	0	0	0	0	0	-2.63	-2.61	2	2	0	2100	2100	0
6/16/2024 7:00	54501	ENOL_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
6/16/2024 7:00	54502	ENOL_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/16/2024 7:00	54505	ENOL_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
6/16/2024 7:00	54503	ENOL_T2	0	0	0	0	0	0	-1.91	-1.93	1	1	0	600	600	0
6/16/2024 7:02	64904	MILL_T1	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
6/16/2024 7:04	47401	PENS_T1	0	0	0	0	0	0	0.7	0.73	0	0	0	0	0	0
6/16/2024 7:04	47402	PENS_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/16/2024 7:05	52503	PROG_T2	0	7	7	0	8.77	8.77	-1.6	-1.54	2	2	0	1800	1800	0
6/16/2024 7:08	20403	ASHF_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
6/16/2024 7:08	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/16/2024 7:08	29402	BELT_T1	2	1	-1	4.2	8	3.8	0	0	0	0	0	0	0	0
6/16/2024 7:08	20401	ASHF_T2	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
6/16/2024 7:09	51101	CARL_T1	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
6/16/2024 7:09	51107	CARL_T1	0	0	0	0	0	0	-0.42	-0.47	0	0	0	0	0	0
6/16/2024 7:10	20401	ASHF_T2	2	2	0	0.35	0.25	-0.1	-0.43	-0.39	0	0	0	0	0	0
6/16/2024 7:13	14204	EALL_T2	0	0	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
6/16/2024 7:15	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 7:15	51402	LYKE_T1	3	1	-2	1.9	0	-1.9	-0.93	-0.93	0	0	0	0	0	0
6/16/2024 7:18	51402	LYKE_T1	3	1	-2	1.9	0	-1.9	-0.93	-0.93	0	0	0	0	0	0
6/16/2024 7:19	43202	MVIL_T2	90	92	2	0.69	0.66	-0.03	-0.74	-0.74	0	0	0	0	0	0
6/16/2024 7:20	15204	SFAR_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
6/16/2024 7:20	15203	SFAR_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/16/2024 7:20	51402	LYKE_T1	3	1	-2	1.9	0	-1.9	-0.93	-0.93	0	0	0	0	0	0
6/16/2024 7:21	56501	ROCK_T2	1	1	0	1.6	2.9	1.3	-0.11	-0.1	0	0	0	0	0	0
6/16/2024 7:22	46301	ROHR_T1	3	0	-3	0.1	0	-0.1	0.24	0.24	0	0	0	0	0	0
6/16/2024 7:22	46302	ROHR_T1	5	0	-5	2.02	1.78	-0.24	0	0	0	0	0	0	0	0
6/16/2024 7:23	15203	SFAR_T2	2	0	-2	0.1	0	-0.1	-1.32	-1.3	0	0	0	0	0	0
6/16/2024 7:23	22001	BOHE_T1	15	0	-15	0.11	0	-0.11	0	0	0	0	0	0	0	0
6/16/2024 7:23	22003	BOHE_T1	39	11	-28	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
6/16/2024 7:23	22002	BOHE_T1	1	0	-1	0.2	0	-0.2	0.26	0.26	0	0	0	0	0	0
6/16/2024 7:23	46004	BERW_T2	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
6/16/2024 7:31	13303	ORVI_T1	0	1	1	0	0.1	0.1	1.24	1.26	0	0	0	0	0	0
6/16/2024 7:32	13303	ORVI_T1	0	1	1	0	0.1	0.1	0.62	0.63	0	0	0	0	0	0
6/16/2024 7:35	47401	PENS_T1	0	1	1	0	0.3	0.3	0.88	0.71	0	0	0	0	0	0
6/16/2024 7:36	66202	SISP_T2	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
6/16/2024 7:36	67402	WAKE_T2	1	0	-1	0.1	0	-0.1	0.47	0.51	0	0	0	0	0	0
6/16/2024 7:36	67401	WAKE_T2	173	106	-67	0.32	0.29	-0.03	0	0	0	0	0	0	0	0
6/16/2024 7:36	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.28	0	0	0	0	0	0
6/16/2024 7:37	67401	WAKE_T2	173	106	-67	0.32	0.29	-0.03	0	0	0	0	0	0	0	0
6/16/2024 7:37	67402	WAKE_T2	1	0	-1	0.1	0	-0.1	0.23	0.26	0	0	0	0	0	0
6/16/2024 7:38	56802	BENV_T2	1	1	0	0.4	0.3	-0.1	-1.44	-1.43	0	0	0	0	0	0
6/16/2024 7:39	29402	BELT_T1	1	1	0	7.7	7.2	-0.5	0	0	0	0	0	0	0	0
6/16/2024 7:39	22002	BOHE_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
6/16/2024 7:39	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/16/2024 7:39	22003	BOHE_T1	11	3	-8	0.23	0.53	0.3	0	0	0	0	0	0	0	0
6/16/2024 7:41	16301	ALPA_T1	5	3	-2	0.24	0.2	-0.04	-0.47	-0.45	0	0	0	0	0	0
6/16/2024 7:42	63305	GREE_T1	0	0	0	0	0	0	-1.27	-1.26	0	0	0	0	0	0
6/16/2024 7:42	14204	EALL_T2	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
6/16/2024 7:44	14204	EALL_T2	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
6/16/2024 7:50	56501	ROCK_T2	1	1	0	5.5	5.7	0.2	-0.08	-0.06	0	0	0	0	0	0
6/16/2024 7:52	66203	SISP_T2	0	0	0	0	0	0	-1.33	-1.29	1	1	0	1200	1200	0
6/16/2024 7:53	56501	ROCK_T2	1	1	0	5.5	5.7	0.2	-0.12	-0.07	0	0	0	0	0	0
6/16/2024 7:57	46801	HEPB_T2	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
6/16/2024 7:57	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.17	0.16	0	0	0	0	0	0
6/16/2024 8:01	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
6/16/2024 8:10	46302	ROHR_T1	4	4	0	1.9	1.83	-0.07	0	0	0	0	0	0	0	0
6/16/2024 8:10	46301	ROHR_T1	0	1	1	0	0.1	0.1	0.24	0.25	0	0	0	0	0	0
6/16/2024 8:12	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
6/16/2024 8:15	20601	GRWO_T2	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
6/16/2024 8:15	64204	KINZ_T1	34	29	-5	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
6/16/2024 8:15	20603	GRWO_T2	3	3	0	0.37	0.27	-0.1	0	0	0	0	0	0	0	0
6/16/2024 8:15	64202	KINZ_T1	23	27	4	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
6/16/2024 8:15	64203	KINZ_T1	28	13	-15	0.14	0.12	-0.02	0	0	0	0	0	0	0	0
6/16/2024 8:15	64201	KINZ_T1	9	8	-1	0.57	0.63	0.06	0.74	0.74	0	0	0	0	0	0
6/16/2024 8:16	64203	KINZ_T1	28	13	-15	0.14	0.12	-0.02	0.28	0.3	0	0	0	0	0	0
6/16/2024 8:16	64203	KINZ_T1	28	13	-15	0.14	0.12	-0.02	0.28	0.3	0	0	0	0	0	0
6/16/2024 8:16	64203	KINZ_T1	28	13	-15	0.14	0.12	-0.02	0.28	0.3	0	0	0	0	0	0
6/16/2024 8:16	64203	KINZ_T1	28	13	-15	0.14	0.12	-0.02	0.28	0.3	0	0	0	0	0	0
6/16/2024 8:16	64202	KINZ_T1	23	27	4	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
6/16/2024 8:16	64204	KINZ_T1	34	29	-5	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
6/16/2024 8:16	64201	KINZ_T1	9	8	-1	0.57	0.63	0.06	0	0	0	0	0	0	0	0
6/16/2024 8:17	64204	KINZ_T1	34	29	-5	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
6/16/2024 8:17	64201	KINZ_T1	9	8	-1	0.57	0.63	0.06	0	0	0	0	0	0	0	0
6/16/2024 8:17	64202	KINZ_T1	23	27	4	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
6/16/2024 8:17	64203	KINZ_T1	28	13	-15	0.14	0.12	-0.02	0.28	0.3	0	0	0	0	0	0
6/16/2024 8:18	64101	REFR_T1	82	49	-33	0.24	0.2	-0.04	0.14	0.16	0	0	0	0	0	0
6/16/2024 8:19	64101	REFR_T1	82	49	-33	0.24	0.2	-0.04	0.14	0.16	0	0	0	0	0	0
6/16/2024 8:19	15203	SFAR_T2	0	1	1	0	0.2	0.2	-1.26	-1.24	0	0	0	0	0	0
6/16/2024 8:20	64101	REFR_T1	82	49	-33	0.24	0.2	-0.04	0.43	0.49	0	0	0	0	0	0
6/16/2024 8:21	64101	REFR_T1	82	49	-33	0.24	0.2	-0.04	0.33	0.37	0	0	0	0	0	0
6/16/2024 8:22	64101	REFR_T1	82	49	-33	0.24	0.2	-0.04	0.33	0.37	0	0	0	0	0	0
6/16/2024 8:24	67605	WARW_T1	4	3	-1	0.25	0.2	-0.05	-1.1	-1.08	0	0	0	0	0	0
6/16/2024 8:24	56802	BENV_T2	0	0	0	0	0	0	-1.39	-1.37	0	0	0	0	0	0
6/16/2024 8:26	56802	BENV_T2	0	0	0	0	0	0	-1.39	-1.37	0	0	0	0	0	0
6/16/2024 8:27	22003	BOHE_T1	3	3	0	0.6	0.63	0.03	0	0	0	0	0	0	0	0
6/16/2024 8:27	22002	BOHE_T1	0	1	1	0	0.1	0.1	0.3	0.32	0	0	0	0	0	0
6/16/2024 8:29	63401	HONY_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
6/16/2024 8:29	63404	HONY_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 8:29	56802	BENV_T2	0	0	0	0	0	0	-1.39	-1.37	0	0	0	0	0	0
6/16/2024 8:30	63404	HONY_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/16/2024 8:30	63401	HONY_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
6/16/2024 8:30	46301	ROHR_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
6/16/2024 8:30	46302	ROHR_T1	4	4	0	1.53	1.73	0.2	0	0	0	0	0	0	0	0
6/16/2024 8:31	46302	ROHR_T1	4	4	0	1.53	1.73	0.2	0	0	0	0	0	0	0	0
6/16/2024 8:31	46301	ROHR_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
6/16/2024 8:32	63404	HONY_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/16/2024 8:32	63401	HONY_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
6/16/2024 8:32	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/16/2024 8:34	14404	SSLA_T1	1	1	0	4.8	4.5	-0.3	0	0	0	0	0	0	0	0
6/16/2024 8:34	14403	SSLA_T1	0	0	0	0	0	0	0.66	0.69	0	0	0	0	0	0
6/16/2024 8:36	67605	WARW_T1	2	3	1	0.25	0.23	-0.02	-1.08	-1.06	0	0	0	0	0	0
6/16/2024 8:39	14404	SSLA_T1	1	1	0	4.8	4.5	-0.3	0	0	0	0	0	0	0	0
6/16/2024 8:39	20403	ASHF_T2	0	1	1	0	0.3	0.3	0.15	0.22	0	0	0	0	0	0
6/16/2024 8:39	14403	SSLA_T1	0	0	0	0	0	0	0.69	0.73	0	0	0	0	0	0
6/16/2024 8:42	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
6/16/2024 8:42	53901	HALI_T2	1	1	0	0.7	0.8	0.1	-4.13	-4.09	0	0	0	0	0	0
6/16/2024 8:42	53903	HALI_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
6/16/2024 8:42	48901	FOSP_T2	0	0	0	0	0	0	-0.43	-0.43	1	1	0	600	600	0
6/16/2024 8:43	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
6/16/2024 8:43	48901	FOSP_T2	0	0	0	0	0	0	-0.43	-0.43	1	1	0	600	600	0
6/16/2024 8:43	53903	HALI_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
6/16/2024 8:43	47001	HUGH_T2	0	0	0	0	0	0	-0.82	-0.82	0	0	0	0	0	0
6/16/2024 8:43	53901	HALI_T2	1	1	0	0.7	0.8	0.1	-1.38	-1.36	0	0	0	0	0	0
6/16/2024 8:43	48902	FOSP_T2	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
6/16/2024 8:45	53903	HALI_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
6/16/2024 8:45	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
6/16/2024 8:45	48901	FOSP_T2	0	0	0	0	0	0	-0.43	-0.43	1	1	0	600	600	0
6/16/2024 8:45	53901	HALI_T2	1	1	0	0.8	0.7	-0.1	-1.38	-1.36	0	0	0	0	0	0
6/16/2024 8:46	47001	HUGH_T2	0	0	0	0	0	0	-0.82	-0.82	0	0	0	0	0	0
6/16/2024 8:47	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
6/16/2024 8:47	53903	HALI_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
6/16/2024 8:47	53901	HALI_T2	1	1	0	0.8	0.7	-0.1	-1.38	-1.36	0	0	0	0	0	0
6/16/2024 8:48	41902	REED_T1	2	1	-1	0.45	0	-0.45	1.05	1.06	0	0	0	0	0	0
6/16/2024 8:50	41902	REED_T1	2	1	-1	0.45	0	-0.45	1.05	1.06	0	0	0	0	0	0
6/16/2024 8:53	60803	BUCK_T1	10	8	-2	0.23	0.14	-0.09	0	0	0	0	0	0	0	0
6/16/2024 8:53	60801	BUCK_T1	31	19	-12	0.25	0.18	-0.07	-0.13	-0.12	0	0	0	0	0	0
6/16/2024 8:58	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
6/16/2024 9:00	46506	LOHA_T1	0	1	1	0	0.3	0.3	-0.73	-0.71	0	0	0	0	0	0
6/16/2024 9:00	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
6/16/2024 9:01	46506	LOHA_T1	0	1	1	0	0.3	0.3	-0.73	-0.71	0	0	0	0	0	0
6/16/2024 9:03	46506	LOHA_T1	0	1	1	0	0.3	0.3	-0.37	-0.36	0	0	0	0	0	0
6/16/2024 9:03	60501	NMAN_T2	3	3	0	4.77	5.2	0.43	0	0	0	0	0	0	0	0
6/16/2024 9:03	60502	NMAN_T2	0	0	0	0	0	0	-0.43	-0.35	0	0	0	0	0	0
6/16/2024 9:03	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 9:04	46506	LOHA_T1	0	1	1	0	0.3	0.3	-0.37	-0.36	0	0	0	0	0	0
6/16/2024 9:05	56501	ROCK_T2	1	1	0	6.3	9	2.7	-2.55	-2.53	0	0	0	0	0	0
6/16/2024 9:05	64101	REFR_T1	2	1	-1	0.1	0.1	0	0.2	0.22	0	0	0	0	0	0
6/16/2024 9:06	67605	WARW_T1	3	3	0	0.23	0.23	0	-1.04	-1.02	0	0	0	0	0	0
6/16/2024 9:06	56501	ROCK_T2	1	1	0	6.3	9	2.7	-1.28	-1.26	0	0	0	0	0	0
6/16/2024 9:08	67605	WARW_T1	3	3	0	0.23	0.23	0	-1.04	-1.02	0	0	0	0	0	0
6/16/2024 9:09	24902	WHHA_T1	0	2	2	0	0.35	0.35	0.54	0.54	0	0	0	0	0	0
6/16/2024 9:14	48902	FOSP_T2	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
6/16/2024 9:16	46803	HEPB_T2	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
6/16/2024 9:20	24902	WHHA_T1	2	3	1	1.1	0.25	-0.85	0.54	0.54	0	0	0	0	0	0
6/16/2024 9:23	67803	WLAN_T1	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
6/16/2024 9:24	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 9:24	65005	NEFF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/16/2024 9:24	65001	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 9:24	65004	NEFF_T2	0	1	1	0	0.2	0.2	-0.85	-0.83	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/16/2024 9:28	47001	HUGH_T2	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
6/16/2024 9:29	40101	HUNT_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
6/16/2024 9:30	45802	HEGI_T2	47	49	2	1.35	1.7	0.35	0.14	0.11	0	0	0	0	0	0
6/16/2024 9:30	47001	HUGH_T2	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
6/16/2024 9:39	56802	BENV_T2	0	0	0	0	0	0	-1.28	-1.26	0	0	0	0	0	0
6/16/2024 9:40	45501	DERR_T2	0	0	0	0	0	0	-0.56	-0.58	2	2	0	1800	1800	0
6/16/2024 9:42	56802	BENV_T2	0	0	0	0	0	0	-1.28	-1.26	0	0	0	0	0	0
6/16/2024 9:43	45501	DERR_T2	0	0	0	0	0	0	-0.56	-0.58	2	2	0	1800	1800	0
6/16/2024 9:43	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 9:44	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/16/2024 9:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 9:46	64203	KINZ_T1	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
6/16/2024 9:46	64204	KINZ_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
6/16/2024 9:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 9:49	56501	ROCK_T2	1	1	0	6.7	9.2	2.5	-1.24	-1.23	0	0	0	0	0	0
6/16/2024 9:50	56501	ROCK_T2	1	1	0	6.7	9.2	2.5	-1.24	-1.23	0	0	0	0	0	0
6/16/2024 9:51	56501	ROCK_T2	1	1	0	6.7	9.2	2.5	-1.24	-1.23	0	0	0	0	0	0
6/16/2024 9:53	56501	ROCK_T2	1	1	0	6.7	9.2	2.5	-1.23	-1.22	0	0	0	0	0	0
6/16/2024 9:55	60801	BUCK_T1	4	4	0	0.2	0.23	0.03	-0.09	-0.08	0	0	0	0	0	0
6/16/2024 9:58	46803	HEPB_T2	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
6/16/2024 10:00	58001	WCAR_T1	4	3	-1	0.18	0.1	-0.08	0.77	0.79	0	0	0	0	0	0
6/16/2024 10:00	15601	NSTR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 10:00	67502	WEWI_T2	5	2	-3	0.34	0.65	0.31	-1.3	-1.27	1	1	0	900	900	0
6/16/2024 10:00	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/16/2024 10:00	53901	HALI_T2	1	1	0	0.3	0.3	0	-1.32	-1.31	0	0	0	0	0	0
6/16/2024 10:00	67605	WARW_T1	11	15	4	0.35	0.46	0.11	-0.98	-0.97	0	0	0	0	0	0
6/16/2024 10:00	53903	HALI_T2	2	4	2	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
6/16/2024 10:00	65503	MOJO_T2	0	0	0	0	0	0	-0.86	-0.82	1	1	0	900	900	0
6/16/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	2.24	2.3	0	0	0	0	0	0
6/16/2024 10:00	53902	HALI_T2	2	2	0	2.6	2.5	-0.1	0	0	0	0	0	0	0	0
6/16/2024 10:00	58003	WCAR_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/16/2024 10:00	15603	NSTR_T2	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
6/16/2024 10:00	13503	MCMI_T2	137	46	-91	0.25	0.3	0.05	-1.84	-1.83	0	0	0	0	0	0
6/16/2024 10:00	40505	CRES_T1	3	3	0	5.2	4.8	-0.4	0.51	0.52	0	0	0	0	0	0
6/16/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
6/16/2024 10:01	65503	MOJO_T2	0	0	0	0	0	0	-0.86	-0.82	1	1	0	900	900	0
6/16/2024 10:06	65001	NEFF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/16/2024 10:06	65003	NEFF_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
6/16/2024 10:06	65005	NEFF_T2	2	2	0	0.15	0.55	0.4	0	0	0	0	0	0	0	0
6/16/2024 10:06	65004	NEFF_T2	1	3	2	0.1	0.4	0.3	-0.81	-0.8	1	1	0	600	600	0
6/16/2024 10:08	20403	ASHF_T2	1	1	0	0.3	0.4	0.1	0.59	0.59	0	0	0	0	0	0
6/16/2024 10:08	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 10:08	58003	WCAR_T1	1	1	0	0.8	0.8	0	0.68	0.68	0	0	0	0	0	0
6/16/2024 10:08	58001	WCAR_T1	4	3	-1	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
6/16/2024 10:09	24902	WHHA_T1	3	2	-1	0.6	0.7	0.1	0.55	0.56	0	0	0	0	0	0
6/16/2024 10:10	56801	BENV_T1	11	9	-2	0.85	0.43	-0.42	-0.68	-0.66	1	1	0	600	600	0
6/16/2024 10:11	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 10:11	20403	ASHF_T2	1	1	0	0.3	0.4	0.1	0.3	0.29	0	0	0	0	0	0
6/16/2024 10:11	56802	BENV_T2	0	0	0	0	0	0	-1.24	-1.22	0	0	0	0	0	0
6/16/2024 10:12	60801	BUCK_T1	4	3	-1	0.23	0.17	-0.06	-0.08	-0.08	0	0	0	0	0	0
6/16/2024 10:12	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 10:12	63401	HONY_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
6/16/2024 10:12	62102	ELAN_T1	1	1	0	0.3	0.4	0.1	0.95	0.96	0	0	0	0	0	0
6/16/2024 10:12	63404	HONY_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/16/2024 10:13	46803	HEPB_T2	0	1	1	0	0.2	0.2	0.52	0.52	0	0	0	0	0	0
6/16/2024 10:13	40101	HUNT_T2	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
6/16/2024 10:13	64204	KINZ_T1	2	2	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/16/2024 10:13	56802	BENV_T2	0	0	0	0	0	0	-1.24	-1.22	0	0	0	0	0	0
6/16/2024 10:13	64203	KINZ_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
6/16/2024 10:13	63501	HEID_TBK1-2	1	0	-1	0.3	0	-0.3	0.63	0.68	0	0	0	0	0	0
6/16/2024 10:14	63404	HONY_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/16/2024 10:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 10:14	46801	HEPB_T2	0	0	0	0	0	0	0.71	0.73	0	0	0	0	0	0
6/16/2024 10:14	46803	HEPB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/16/2024 10:14	63401	HONY_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
6/16/2024 10:15	52403	GRPA_T2	2	1	-1	0.5	0	-0.5	0.16	0.17	0	0	0	0	0	0
6/16/2024 10:16	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 10:16	63404	HONY_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/16/2024 10:16	63401	HONY_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
6/16/2024 10:16	58401	MORO_T1	0	0	0	0	0	0	-0.94	-0.92	1	1	0	600	600	0
6/16/2024 10:16	46506	LOHA_T1	1	0	-1	0.6	0	-0.6	-0.44	-0.43	0	0	0	0	0	0
6/16/2024 10:16	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 10:17	64204	KINZ_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/16/2024 10:17	40101	HUNT_T2	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
6/16/2024 10:17	64203	KINZ_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
6/16/2024 10:18	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 10:18	58401	MORO_T1	0	0	0	0	0	0	-0.94	-0.92	1	1	0	600	600	0
6/16/2024 10:19	56501	ROCK_T2	2	4	2	8.75	4.55	-4.2	-1.22	-1.2	0	0	0	0	0	0
6/16/2024 10:20	56501	ROCK_T2	2	4	2	8.75	4.55	-4.2	-1.22	-1.2	0	0	0	0	0	0
6/16/2024 10:20	24603	VARD_T2	9	9	0	0.44	0.53	0.09	-0.11	-0.1	0	0	0	0	0	0
6/16/2024 10:20	24602	VARD_T2	434	374	-60	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
6/16/2024 10:21	67603	WARW_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
6/16/2024 10:21	67605	WARW_T1	15	12	-3	0.46	0.38	-0.08	0	0	0	0	0	0	0	0
6/16/2024 10:21	24603	VARD_T2	9	9	0	0.44	0.53	0.09	0	0	0	0	0	0	0	0
6/16/2024 10:21	24602	VARD_T2	434	374	-60	0.53	0.43	-0.1	-1	-0.99	0	0	0	0	0	0
6/16/2024 10:22	67605	WARW_T1	15	12	-3	0.46	0.38	-0.08	-1.9	-1.87	0	0	0	0	0	0
6/16/2024 10:22	56501	ROCK_T2	2	4	2	8.75	4.55	-4.2	-1.2	-1.19	0	0	0	0	0	0
6/16/2024 10:23	56501	ROCK_T2	2	4	2	8.75	4.55	-4.2	-1.2	-1.19	0	0	0	0	0	0
6/16/2024 10:23	22001	BOHE_T1	4	5	1	0.23	0.32	0.09	0.3	0.3	0	0	0	0	0	0
6/16/2024 10:23	10602	BLGL_T2	0	0	0	0	0	0	0.24	0.28	0	0	0	0	0	0
6/16/2024 10:23	16302	ALPA_T2	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
6/16/2024 10:23	22003	BOHE_T1	10	12	2	0.85	0.73	-0.12	0	0	0	0	0	0	0	0
6/16/2024 10:24	16302	ALPA_T2	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
6/16/2024 10:24	67605	WARW_T1	15	12	-3	0.46	0.38	-0.08	-1.9	-1.87	0	0	0	0	0	0
6/16/2024 10:24	67605	WARW_T1	15	12	-3	0.46	0.38	-0.08	-1.9	-1.93	0	0	0	0	0	0
6/16/2024 10:24	67605	WARW_T1	15	12	-3	0.46	0.38	-0.08	-0.95	-1.87	0	0	0	0	0	0
6/16/2024 10:24	67605	WARW_T1	15	12	-3	0.46	0.38	-0.08	-0.95	-0.93	0	0	0	0	0	0
6/16/2024 10:25	67605	WARW_T1	15	12	-3	0.46	0.38	-0.08	-0.95	-0.93	0	0	0	0	0	0
6/16/2024 10:25	16302	ALPA_T2	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
6/16/2024 10:26	22001	BOHE_T1	4	5	1	0.23	0.32	0.09	0	0	0	0	0	0	0	0
6/16/2024 10:26	22003	BOHE_T1	10	12	2	0.85	0.73	-0.12	0	0	0	0	0	0	0	0
6/16/2024 10:27	16302	ALPA_T2	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
6/16/2024 10:28	45802	HEGI_T2	1	49	48	1.7	2.38	0.68	0.27	0	0	0	0	0	0	0
6/16/2024 10:30	52403	GRPA_T2	1	1	0	0.1	0	-0.1	0.17	0.18	0	0	0	0	0	0
6/16/2024 10:30	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 10:31	22602	KIMB_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
6/16/2024 10:31	66504	SMAN_T2	0	1	1	0	0.2	0.2	-2.76	-2.84	2	2	0	2400	2400	0
6/16/2024 10:31	66505	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/16/2024 10:31	25402	LAHA_T2	0	1	1	0	0.4	0.4	-0.41	-0.4	0	0	0	0	0	0
6/16/2024 10:31	22601	KIMB_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/16/2024 10:32	46801	HEPB_T2	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
6/16/2024 10:32	40602	PIGR_T1	1	1	0	1	0.9	-0.1	0	0	1	1	0	600	600	0
6/16/2024 10:32	46803	HEPB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/16/2024 10:34	56501	ROCK_T2	4	3	-1	4.98	6	1.02	-1.2	-1.19	0	0	0	0	0	0
6/16/2024 10:34	48302	ORWI_T2	1	2	1	0.2	0.7	0.5	0.03	-0.54	0	0	0	0	0	0
6/16/2024 10:35	66505	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/16/2024 10:35	66502	SMAN_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
6/16/2024 10:35	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/16/2024 10:35	56501	ROCK_T2	4	3	-1	4.98	6	1.02	-1.2	-1.19	0	0	0	0	0	0
6/16/2024 10:36	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/16/2024 10:36	66505	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/16/2024 10:36	66502	SMAN_T2	0	0	0	0	0	0	-0.07	0	0	0	0	0	0	0
6/16/2024 10:37	66703	STRA_T1	0	0	0	0	0	0	0.02	0.08	0	0	0	0	0	0
6/16/2024 10:39	10801	CHHI_T1	2	1	-1	0.15	0.2	0.05	-1.1	-1.09	2	2	0	1500	1500	0
6/16/2024 10:40	10801	CHHI_T1	2	1	-1	0.15	0.2	0.05	-1.1	-1.09	2	2	0	1500	1500	0
6/16/2024 10:43	60801	BUCK_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
6/16/2024 10:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 10:44	12701	MACU_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
6/16/2024 10:45	11507	FREE_T2	1	2	1	1	0.6	-0.4	0.93	0.92	0	0	0	0	0	0
6/16/2024 10:45	63401	HONY_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
6/16/2024 10:45	12701	MACU_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
6/16/2024 10:45	12801	MICK_T1	0	1	1	0	0	0	-0.91	-0.89	1	1	0	600	600	0
6/16/2024 10:45	12803	MICK_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/16/2024 10:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 10:48	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/16/2024 10:48	55002	NEWP_T1	1	3	2	0.8	0.83	0.03	-0.36	-0.34	0	0	0	0	0	0
6/16/2024 10:49	55002	NEWP_T1	1	3	2	0.8	0.83	0.03	-0.12	-0.11	0	0	0	0	0	0
6/16/2024 10:49	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/16/2024 10:51	15702	TANN_T2	0	1	1	0	0.2	0.2	-0.34	-0.33	0	0	0	0	0	0
6/16/2024 10:51	15703	TANN_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
6/16/2024 10:52	15702	TANN_T2	0	1	1	0	0.2	0.2	-0.33	-0.22	0	0	0	0	0	0
6/16/2024 10:52	15703	TANN_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
6/16/2024 10:53	15702	TANN_T2	0	1	1	0	0.2	0.2	-0.33	-0.22	0	0	0	0	0	0
6/16/2024 10:53	29402	BELT_T1	3	4	1	3.27	2.45	-0.82	0	0	0	0	0	0	0	0
6/16/2024 10:53	15703	TANN_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
6/16/2024 10:53	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/16/2024 10:54	29402	BELT_T1	3	4	1	3.27	2.45	-0.82	0	0	0	0	0	0	0	0
6/16/2024 10:54	44301	BEAV_T2	1	0	-1	0.2	0	-0.2	-0.35	-0.32	1	1	0	600	600	0
6/16/2024 10:54	44302	BEAV_T2	2	1	-1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/16/2024 10:55	60803	BUCK_T1	0	0	0	0	0	0	-0.76	-0.74	2	2	0	1200	1200	0
6/16/2024 10:55	45501	DERR_T2	0	0	0	0	0	0	-0.96	-0.77	4	4	0	3600	3600	0
6/16/2024 10:56	67901	WHHO_T2	13	9	-4	0.58	0.71	0.13	-0.41	-0.4	0	0	0	0	0	0
6/16/2024 10:56	44301	BEAV_T2	1	0	-1	0.2	0	-0.2	-0.35	-0.32	1	1	0	600	600	0
6/16/2024 10:56	29402	BELT_T1	3	4	1	3.27	2.45	-0.82	0	0	0	0	0	0	0	0
6/16/2024 10:56	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/16/2024 10:56	44302	BEAV_T2	2	1	-1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/16/2024 10:57	45501	DERR_T2	0	0	0	0	0	0	-0.48	-0.39	2	2	0	1800	1800	0
6/16/2024 10:58	29402	BELT_T1	3	4	1	3.27	2.45	-0.82	0	0	0	0	0	0	0	0
6/16/2024 10:58	60803	BUCK_T1	0	0	0	0	0	0	-0.76	-0.74	2	2	0	1200	1200	0
6/16/2024 11:01	63404	HONY_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 11:01	63401	HONY_T1	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
6/16/2024 11:01	46506	LOHA_T1	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
6/16/2024 11:03	64101	REFR_T1	0	1	1	0	0	0	0.16	0.17	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/16/2024 11:04	64101	REFR_T1	0	1	1	0	0	0	0.16	0.17	0	0	0	0	0	0
6/16/2024 11:04	40601	PIGR_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/16/2024 11:04	40602	PIGR_T1	1	1	0	0.9	0.5	-0.4	0	0	1	1	0	600	600	0
6/16/2024 11:04	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 11:05	64101	REFR_T1	0	1	1	0	0	0	0.16	0.17	0	0	0	0	0	0
6/16/2024 11:06	64101	REFR_T1	0	1	1	0	0	0	0.17	0.19	0	0	0	0	0	0
6/16/2024 11:07	64101	REFR_T1	0	1	1	0	0	0	0.17	0.19	0	0	0	0	0	0
6/16/2024 11:07	24204	PROV_T3	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
6/16/2024 11:07	24201	PROV_T3	1	1	0	6.4	6.6	0.2	-2.59	-2.55	2	2	0	2400	2400	0
6/16/2024 11:08	64101	REFR_T1	0	1	1	0	0	0	0.69	0.74	0	0	0	0	0	0
6/16/2024 11:09	59201	THOM_T1	1	2	1	0.1	0.8	0.7	0	0	0	0	0	0	0	0
6/16/2024 11:09	59202	THOM_T1	1	8	7	0.3	0.46	0.16	0	0	0	0	0	0	0	0
6/16/2024 11:10	64101	REFR_T1	0	1	1	0	0	0	0.17	0.19	0	0	0	0	0	0
6/16/2024 11:11	10805	CHHI_T2	1	1	0	8.4	7.6	-0.8	-0.82	-1.43	0	1	1	0	600	600
6/16/2024 11:12	52403	GRPA_T2	1	3	2	0.2	0.3	0.1	0.2	0.21	0	0	0	0	0	0
6/16/2024 11:12	63404	HONY_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 11:12	63401	HONY_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
6/16/2024 11:12	52402	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/16/2024 11:13	63304	GREE_T1	0	0	0	0	0	0	-1.2	-1.2	0	0	0	0	0	0
6/16/2024 11:14	10805	CHHI_T2	1	1	0	8.4	7.6	-0.8	-0.82	-1.43	0	1	1	0	600	600
6/16/2024 11:15	65401	MARI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/16/2024 11:15	65402	MARI_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/16/2024 11:15	26704	HEML_T2	0	1	1	0	0.1	0.1	-0.75	-0.74	1	1	0	1200	1200	0
6/16/2024 11:15	41801	GOCI_T2	0	5	5	0	0.58	0.58	0	0	0	0	0	0	0	0
6/16/2024 11:15	52402	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/16/2024 11:15	52403	GRPA_T2	2	2	0	0.1	0.3	0.2	0.2	0.21	0	0	0	0	0	0
6/16/2024 11:16	65401	MARI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/16/2024 11:16	52403	GRPA_T2	2	2	0	0.1	0.3	0.2	0.2	0.21	0	0	0	0	0	0
6/16/2024 11:16	65402	MARI_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/16/2024 11:16	52402	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/16/2024 11:17	65401	MARI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/16/2024 11:17	65402	MARI_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/16/2024 11:18	25502	MADI_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
6/16/2024 11:18	25503	MADI_T1	4	19	15	0.4	0.26	-0.14	-0.81	-0.79	0	0	0	0	0	0
6/16/2024 11:18	25501	MADI_T1	2	1	-1	0.55	0.8	0.25	0	0	0	0	0	0	0	0
6/16/2024 11:18	64101	REFR_T1	0	1	1	0	0	0	0.17	0.19	0	0	0	0	0	0
6/16/2024 11:19	64101	REFR_T1	0	1	1	0	0	0	0.35	0.37	0	0	0	0	0	0
6/16/2024 11:20	64101	REFR_T1	0	1	1	0	0	0	0.35	0.37	0	0	0	0	0	0
6/16/2024 11:21	40601	PIGR_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/16/2024 11:21	40602	PIGR_T1	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
6/16/2024 11:21	40603	PIGR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/16/2024 11:21	48302	ORWI_T2	2	2	0	0.45	0.55	0.1	-0.51	-0.5	0	0	0	0	0	0
6/16/2024 11:21	64101	REFR_T1	0	1	1	0	0	0	0.37	0.4	0	0	0	0	0	0
6/16/2024 11:22	64101	REFR_T1	0	1	1	0	0	0	0.19	0.2	0	0	0	0	0	0
6/16/2024 11:23	64101	REFR_T1	0	1	1	0	0	0	0.19	0.2	0	0	0	0	0	0
6/16/2024 11:24	64101	REFR_T1	0	1	1	0	0	0	0.19	0.2	0	0	0	0	0	0
6/16/2024 11:25	60803	BUCK_T1	0	3	3	0	0.1	0.1	-1.01	-1	1	1	0	600	600	0
6/16/2024 11:25	60801	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 11:26	45702	LIND_T2	2	1	-1	0.65	1.1	0.45	-1.63	-1.63	0	0	0	0	0	0
6/16/2024 11:27	52402	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/16/2024 11:27	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/16/2024 11:27	52403	GRPA_T2	2	2	0	0.1	0.3	0.2	0.21	0.22	0	0	0	0	0	0
6/16/2024 11:28	10801	CHHI_T1	6	8	2	0.7	0.74	0.04	-1.66	-1.65	3	3	0	2100	2100	0
6/16/2024 11:29	41801	GOCI_T2	0	5	5	0	0.58	0.58	0	0	0	0	0	0	0	0
6/16/2024 11:29	45702	LIND_T2	2	1	-1	0.65	1.1	0.45	-1.63	-1.63	0	0	0	0	0	0
6/16/2024 11:30	16102	BING_T2	6	6	0	0.55	0.4	-0.15	-0.13	-0.08	1	1	0	1200	1200	0
6/16/2024 11:30	16101	BING_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
6/16/2024 11:30	54602	SUMM_T2	0	0	0	0	0	0	-2.22	-3	1	1	0	600	600	0
6/16/2024 11:30	16103	BING_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
6/16/2024 11:30	40101	HUNT_T2	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
6/16/2024 11:31	16101	BING_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
6/16/2024 11:31	40101	HUNT_T2	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
6/16/2024 11:31	16103	BING_T2	1	1	0	0.7	0.9	0.2	-0.68	-0.66	2	2	0	1500	1500	0
6/16/2024 11:31	16102	BING_T2	6	6	0	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
6/16/2024 11:33	24204	PROV_T3	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
6/16/2024 11:33	24201	PROV_T3	1	1	0	6.6	6.6	0	-1.28	-1.26	1	1	0	1200	1200	0
6/16/2024 11:34	43202	MVIL_T2	26	8	-18	0.19	0.24	0.05	-0.67	-0.67	0	0	0	0	0	0
6/16/2024 11:34	43201	MVIL_T2	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
6/16/2024 11:35	43202	MVIL_T2	26	8	-18	0.19	0.24	0.05	-1.34	-1.33	0	0	0	0	0	0
6/16/2024 11:36	67602	WARW_T2	0	0	0	0	0	0	-0.37	-0.15	2	2	0	1500	1500	0
6/16/2024 11:37	67602	WARW_T2	0	0	0	0	0	0	-0.37	-0.15	2	1	-1	1500	1200	-300
6/16/2024 11:39	56801	BENV_T1	14	12	-2	0.97	1.02	0.05	-1.13	-1.1	2	2	0	1200	1200	0
6/16/2024 11:39	56803	BENV_T1	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
6/16/2024 11:40	67602	WARW_T2	0	0	0	0	0	0	-0.37	-0.15	2	1	-1	1500	1200	-300
6/16/2024 11:40	67605	WARW_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/16/2024 11:40	56801	BENV_T1	14	12	-2	0.97	1.02	0.05	-0.57	-0.55	1	1	0	600	600	0
6/16/2024 11:40	67603	WARW_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
6/16/2024 11:40	56803	BENV_T1	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
6/16/2024 11:41	20401	ASHF_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/16/2024 11:41	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
6/16/2024 11:41	24103	EHAZ_T1	0	0	0	0	0	0	-1.42	-1.5	0	0	0	0	0	0
6/16/2024 11:41	24102	EHAZ_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/16/2024 11:41	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 11:41	56803	BENV_T1	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
6/16/2024 11:41	24101	EHAZ_T1	1	9	8	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/16/2024 11:41	56801	BENV_T1	14	12	-2	0.97	1.02	0.05	-0.57	-0.55	1	1	0	600	600	0
6/16/2024 11:41	24105	EHAZ_T1	4	4	0	6.8	6.33	-0.47	0	0	0	0	0	0	0	0
6/16/2024 11:42	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 11:42	21203	ECAR_T1	2	3	1	0.95	0.37	-0.58	0.57	0.57	0	0	0	0	0	0
6/16/2024 11:42	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
6/16/2024 11:42	56803	BENV_T1	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
6/16/2024 11:42	20401	ASHF_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/16/2024 11:42	56801	BENV_T1	14	12	-2	0.97	1.02	0.05	-1.7	-1.64	3	3	0	1800	1800	0
6/16/2024 11:43	56803	BENV_T1	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
6/16/2024 11:43	56801	BENV_T1	14	12	-2	0.97	1.02	0.05	-0.57	-0.55	1	1	0	600	600	0
6/16/2024 11:44	52402	GRPA_T2	2	2	0	0.3	0.1	-0.2	-1.61	-1.59	0	0	0	0	0	0
6/16/2024 11:44	52403	GRPA_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
6/16/2024 11:44	56803	BENV_T1	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
6/16/2024 11:44	56801	BENV_T1	14	12	-2	0.97	1.02	0.05	-0.57	-0.55	1	1	0	600	600	0
6/16/2024 11:45	40101	HUNT_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
6/16/2024 11:45	52002	LING_T2	0	0	0	0	0	0	0.65	0.7	0	0	0	0	0	0
6/16/2024 11:45	52004	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 11:45	52403	GRPA_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
6/16/2024 11:45	52402	GRPA_T2	2	0	-2	0.1	0	-0.1	-0.81	-0.8	0	0	0	0	0	0
6/16/2024 11:46	52403	GRPA_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
6/16/2024 11:46	52402	GRPA_T2	2	0	-2	0.1	0	-0.1	-0.81	-0.8	0	0	0	0	0	0
6/16/2024 11:47	59301	MCAL_T1	5	6	1	0.42	0.42	0	-1.22	-1.21	0	0	0	0	0	0
6/16/2024 11:47	52004	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 11:47	52002	LING_T2	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
6/16/2024 11:47	40101	HUNT_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
6/16/2024 11:50	67401	WAKE_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/16/2024 11:50	67402	WAKE_T2	0	0	0	0	0	0	-0.11	-0.09	1	1	0	600	600	0
6/16/2024 11:50	67303	WYOM_T2	0	0	0	0	0	0	-0.89	-0.85	0	0	0	0	0	0
6/16/2024 11:53	67402	WAKE_T2	0	0	0	0	0	0	-0.09	-0.07	1	1	0	600	600	0
6/16/2024 11:53	67401	WAKE_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/16/2024 11:55	41502	FAIR_T2	0	0	0	0	0	0	-1.51	-1.51	1	1	0	900	900	0
6/16/2024 11:56	67901	WNHO_T2	6	5	-1	0.97	1.28	0.31	-0.36	-0.35	0	0	0	0	0	0
6/16/2024 11:57	63804	HEMP_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
6/16/2024 11:57	63801	HEMP_T1	0	1	1	0	0.1	0.1	-0.82	-0.66	1	1	0	900	900	0
6/16/2024 11:58	20603	GRWO_T2	1	1	0	0.2	0.2	0	0.54	0.54	0	0	0	0	0	0
6/16/2024 11:58	20601	GRWO_T2	2	2	0	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
6/16/2024 11:59	63802	HEMP_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
6/16/2024 11:59	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 11:59	63804	HEMP_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
6/16/2024 11:59	20601	GRWO_T2	2	2	0	0.6	0.45	-0.15	-0.17	-0.16	0	0	0	0	0	0
6/16/2024 11:59	17401	FOHI_T1	0	0	0	0	0	0	-1.72	-1.71	0	0	0	0	0	0
6/16/2024 11:59	20603	GRWO_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/16/2024 12:00	20601	GRWO_T2	2	1	-1	0.35	0.6	0.25	-0.17	-0.16	0	0	0	0	0	0
6/16/2024 12:00	20603	GRWO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/16/2024 12:00	41504	FAIR_T2	0	0	0	0	0	0	-0.81	-0.84	0	0	0	0	0	0
6/16/2024 12:01	41801	GOCI_T2	5	1	-4	0.7	1.1	0.4	0	0	0	0	0	0	0	0
6/16/2024 12:03	40101	HUNT_T2	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
6/16/2024 12:04	41801	GOCI_T2	5	1	-4	0.7	1.1	0.4	0	0	0	0	0	0	0	0
6/16/2024 12:07	58006	WCAR_T2	0	0	0	0	0	0	-0.73	-0.71	0	0	0	0	0	0
6/16/2024 12:07	40601	PIGR_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/16/2024 12:07	40603	PIGR_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/16/2024 12:07	13606	RICH_T2	1	1	0	7.5	7.5	0	0.98	0.99	0	0	0	0	0	0
6/16/2024 12:07	40602	PIGR_T1	1	1	0	0.6	0.9	0.3	0	0	1	1	0	600	600	0
6/16/2024 12:08	10102	ALLE_T2	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
6/16/2024 12:08	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 12:09	56803	BENV_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
6/16/2024 12:09	56801	BENV_T1	12	10	-2	0.81	0.83	0.02	-0.53	-0.51	1	1	0	600	600	0
6/16/2024 12:10	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
6/16/2024 12:10	56803	BENV_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
6/16/2024 12:10	56801	BENV_T1	12	10	-2	0.81	0.83	0.02	-0.53	-0.51	1	1	0	600	600	0
6/16/2024 12:11	56803	BENV_T1	1	0	-1	1.5	0	-1.5	0.24	0.25	0	0	0	0	0	0
6/16/2024 12:11	10102	ALLE_T2	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
6/16/2024 12:11	10105	ALLE_T3	12	18	6	2.11	1.68	-0.43	0	0	0	0	0	0	0	0
6/16/2024 12:11	10109	ALLE_T3	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/16/2024 12:11	56801	BENV_T1	12	10	-2	0.81	0.83	0.02	-0.53	-0.51	1	1	0	600	600	0
6/16/2024 12:11	10205	ALLE_T3	2	2	0	1.35	0.7	-0.65	0	0	0	0	0	0	0	0
6/16/2024 12:11	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 12:12	56801	BENV_T1	12	10	-2	0.81	0.83	0.02	-0.53	-0.51	1	1	0	600	600	0
6/16/2024 12:12	56803	BENV_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
6/16/2024 12:13	24702	FLND_T2	3	3	0	0.77	0.8	0.03	-0.42	-0.46	1	1	0	1200	1200	0
6/16/2024 12:13	56801	BENV_T1	12	10	-2	0.81	0.83	0.02	-1.06	-1.02	2	2	0	1200	1200	0
6/16/2024 12:13	56803	BENV_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
6/16/2024 12:13	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/16/2024 12:14	56801	BENV_T1	12	10	-2	0.81	0.83	0.02	-1.06	-1.02	2	2	0	1200	1200	0
6/16/2024 12:14	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 12:14	21206	ECAR_T2	1	1	0	7.8	8	0.2	-0.05	-0.06	0	0	0	0	0	0
6/16/2024 12:14	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 12:14	56803	BENV_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/16/2024 12:14	53902	HALI_T2	2	3	1	2.35	2.13	-0.22	0	0	0	0	0	0	0	0
6/16/2024 12:14	21202	ECAR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/16/2024 12:14	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 12:14	63804	HEMP_T1	1	1	0	6.1	6.4	0.3	-0.02	0	0	0	0	0	0	0
6/16/2024 12:14	53903	HALI_T2	5	5	0	0.54	0.74	0.2	0.01	0.02	0	0	0	0	0	0
6/16/2024 12:15	24702	FLND_T2	3	1	-2	0.8	0.2	-0.6	-0.42	-0.46	1	1	0	1200	1200	0
6/16/2024 12:15	63804	HEMP_T1	1	1	0	6.5	6.4	-0.1	-0.02	0	0	0	0	0	0	0
6/16/2024 12:15	63801	HEMP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/16/2024 12:16	63802	HEMP_T1	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
6/16/2024 12:16	63801	HEMP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/16/2024 12:16	63804	HEMP_T1	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
6/16/2024 12:17	58402	MORO_T1	0	0	0	0	0	0	-0.41	-0.39	2	2	0	1500	1500	0
6/16/2024 12:17	58401	MORO_T1	1	0	-1	0.2	0	-0.2	-1.42	-1.4	2	2	0	1200	1200	0
6/16/2024 12:18	16406	MOPO_T1	0	0	0	0	0	0	-1.25	-1.26	2	2	0	2100	2100	0
6/16/2024 12:18	16401	MOPO_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/16/2024 12:18	16402	MOPO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 12:20	40602	PIGR_T1	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
6/16/2024 12:20	40603	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	1	1	0	900	900	0
6/16/2024 12:20	64101	REFR_T1	0	1	1	0	0	0	0.45	0.47	0	0	0	0	0	0
6/16/2024 12:21	64101	REFR_T1	0	1	1	0	0	0	0.71	0.75	0	0	0	0	0	0
6/16/2024 12:21	66703	STRA_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
6/16/2024 12:22	64101	REFR_T1	0	1	1	0	0	0	0.71	0.75	0	0	0	0	0	0
6/16/2024 12:23	67201	TEHI_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/16/2024 12:23	64101	REFR_T1	0	1	1	0	0	0	0.47	0.5	0	0	0	0	0	0
6/16/2024 12:23	67203	TEHI_T1	0	0	0	0	0	0	0.9	0.9	1	1	0	900	900	0
6/16/2024 12:24	64101	REFR_T1	0	1	1	0	0	0	0.24	0.25	0	0	0	0	0	0
6/16/2024 12:25	66703	STRA_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
6/16/2024 12:25	64101	REFR_T1	0	1	1	0	0	0	0.24	0.25	0	0	0	0	0	0
6/16/2024 12:27	24105	EHAZ_T1	4	4	0	6.5	6.25	-0.25	0	0	0	0	0	0	0	0
6/16/2024 12:27	24701	FLND_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
6/16/2024 12:27	24103	EHAZ_T1	0	0	0	0	0	0	-1.49	-1.49	0	0	0	0	0	0
6/16/2024 12:27	24101	EHAZ_T1	10	21	11	0.39	0.21	-0.18	0	0	0	0	0	0	0	0
6/16/2024 12:27	24702	FLND_T2	3	1	-2	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
6/16/2024 12:28	53901	HALI_T2	0	1	1	0	0.1	0.1	-1.21	-1.19	0	0	0	0	0	0
6/16/2024 12:28	53903	HALI_T2	5	6	1	0.6	0.63	0.03	0	0	0	0	0	0	0	0
6/16/2024 12:28	53902	HALI_T2	1	3	2	4.9	2.13	-2.77	0	0	0	0	0	0	0	0
6/16/2024 12:29	53901	HALI_T2	0	1	1	0	0.1	0.1	-1.21	-1.19	0	0	0	0	0	0
6/16/2024 12:29	53902	HALI_T2	1	3	2	4.9	2.13	-2.77	0	0	0	0	0	0	0	0
6/16/2024 12:29	45802	HEGI_T2	49	49	0	1.92	1.65	-0.27	0.1	0.19	0	0	0	0	0	0
6/16/2024 12:29	53903	HALI_T2	5	6	1	0.6	0.63	0.03	0	0	0	0	0	0	0	0
6/16/2024 12:30	27605	PIRI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 12:30	27603	PIRI_T2	0	0	0	0	0	0	-1.01	-1.02	2	2	0	1800	1800	0
6/16/2024 12:31	11805	FRAN_T1	0	0	0	0	0	0	-0.99	-0.99	1	1	0	1200	1200	0
6/16/2024 12:31	11804	FRAN_T1	4	4	0	0.53	0.58	0.05	0	0	0	0	0	0	0	0
6/16/2024 12:32	42903	MIDD_T2	2	2	0	0.55	0.55	0	-0.07	-0.02	0	0	0	0	0	0
6/16/2024 12:33	58402	MORO_T1	0	0	0	0	0	0	-0.39	-0.37	2	2	0	1500	1500	0
6/16/2024 12:33	65603	QVIL_T2	0	0	0	0	0	0	0.4	-0.55	0	0	0	0	0	0
6/16/2024 12:34	66505	SMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
6/16/2024 12:34	66504	SMAN_T2	0	0	0	0	0	0	-1.2	-1.17	1	1	0	1200	1200	0
6/16/2024 12:35	58402	MORO_T1	0	0	0	0	0	0	-0.39	-0.37	2	2	0	1500	1500	0
6/16/2024 12:36	66505	SMAN_T2	0	2	2	0	0.5	0.5	0.42	0.46	3	3	0	1700	1700	0
6/16/2024 12:38	66505	SMAN_T2	0	2	2	0	0.5	0.5	0.42	0.46	3	3	0	1700	1700	0
6/16/2024 12:40	44302	BEAV_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
6/16/2024 12:40	44301	BEAV_T2	9	9	0	0.39	0.43	0.04	-1.59	-1.57	2	2	0	1200	1200	0
6/16/2024 12:41	44302	BEAV_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
6/16/2024 12:41	44301	BEAV_T2	9	9	0	0.39	0.43	0.04	-1.59	-1.57	2	2	0	1200	1200	0
6/16/2024 12:42	52403	GRPA_T2	5	8	3	0.88	0.37	-0.51	0	0	0	0	0	0	0	0
6/16/2024 12:42	52401	GRPA_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
6/16/2024 12:43	41801	GOCI_T2	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
6/16/2024 12:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 12:48	58402	MORO_T1	0	0	0	0	0	0	-0.37	-0.35	2	2	0	1500	1500	0
6/16/2024 12:51	65604	QVIL_T2	0	0	0	0	0	0	0.65	0.67	0	0	0	0	0	0
6/16/2024 12:51	43801	SWIL_T1	2	15	13	3.25	0.57	-2.68	0	0	0	0	0	0	0	0
6/16/2024 12:51	43802	SWIL_T1	0	0	0	0	0	0	0.02	0.03	1	1	0	600	600	0
6/16/2024 12:58	10805	CHHI_T2	1	1	0	8.1	8.3	0.2	-2.7	-2.37	2	2	0	1200	1200	0
6/16/2024 12:58	24702	FLND_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
6/16/2024 12:58	24701	FLND_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
6/16/2024 13:05	51002	NHAR_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/16/2024 13:05	51004	NHAR_T1	2	2	0	3.55	3.35	-0.2	-0.51	-0.5	0	0	0	0	0	0
6/16/2024 13:09	64101	REFR_T1	2	4	2	0.3	0.3	0	0.28	0.29	0	0	0	0	0	0
6/16/2024 13:10	29402	BELT_T1	1	1	0	8.7	8.3	-0.4	0	0	0	0	0	0	0	0
6/16/2024 13:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/16/2024 13:11	57004	WHHI_T2	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
6/16/2024 13:14	53903	HALI_T2	2	6	4	0.8	0.7	-0.1	0.05	0.05	0	0	0	0	0	0
6/16/2024 13:14	53902	HALI_T2	3	3	0	1.73	1.93	0.2	0	0	0	0	0	0	0	0
6/16/2024 13:15	52002	LING_T2	0	0	0	0	0	0	0.41	0.46	0	0	0	0	0	0
6/16/2024 13:15	12701	MACU_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
6/16/2024 13:15	52004	LING_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/16/2024 13:15	53903	HALI_T2	6	6	0	0.68	0.53	-0.15	0.05	0.05	0	0	0	0	0	0
6/16/2024 13:15	53902	HALI_T2	3	3	0	1.83	1.9	0.07	0	0	0	0	0	0	0	0
6/16/2024 13:17	48302	ORWI_T2	2	2	0	0.3	0.55	0.25	-0.4	-0.39	0	0	0	0	0	0
6/16/2024 13:17	12701	MACU_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
6/16/2024 13:19	52004	LING_T2	1	1	0	0.1	0.5	0.4	0.22	0.22	0	0	0	0	0	0
6/16/2024 13:19	51603	DUKE_T1	0	0	0	0	0	0	-0.74	-0.86	0	1	1	0	900	900
6/16/2024 13:19	65501	MOJO_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	900	900	0
6/16/2024 13:20	65501	MOJO_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	900	900	0
6/16/2024 13:20	51603	DUKE_T1	0	0	0	0	0	0	-2.22	-2.58	0	3	3	0	2700	2700
6/16/2024 13:21	67201	TEHI_T1	2	2	0	0.15	0.45	0.3	-0.47	-0.47	1	1	0	900	900	0
6/16/2024 13:21	67603	WARW_T1	0	0	0	0	0	0	0.71	0.75	0	0	0	0	0	0
6/16/2024 13:21	67605	WARW_T1	1	3	2	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
6/16/2024 13:21	67601	WARW_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
6/16/2024 13:24	67605	WARW_T1	1	3	2	0.9	0.6	-0.3	-1.13	-1.1	0	0	0	0	0	0
6/16/2024 13:28	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 13:28	21206	ECAR_T2	1	1	0	7.3	7.4	0.1	0	-0.02	0	0	0	0	0	0
6/16/2024 13:33	64701	LITI_T1	0	1	1	0	0	0	0.42	0.42	0	0	0	0	0	0
6/16/2024 13:33	12301	LANA_T2	0	0	0	0	0	0	-0.81	-0.79	1	1	0	1200	1200	0
6/16/2024 13:33	12304	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 13:34	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 13:36	55103	WERT_T1	1	1	0	5	6.8	1.8	0	0	0	0	0	0	0	0
6/16/2024 13:36	55101	WERT_T1	0	0	0	0	0	0	-2.85	-2.73	4	4	0	3000	3000	0
6/16/2024 13:39	45502	DERR_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
6/16/2024 13:40	49803	UNIV_T1	0	0	0	0	0	0	-0.53	-0.6	0	0	0	0	0	0
6/16/2024 13:41	10805	CHHI_T2	1	1	0	8.4	8.5	0.1	-1.19	-1.26	1	1	0	600	600	0
6/16/2024 13:41	58002	WCAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 13:41	58006	WCAR_T2	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
6/16/2024 13:42	56803	BENV_T1	3	6	3	1.53	1.65	0.12	0	0	0	0	0	0	0	0
6/16/2024 13:42	11102	EGYP_T1	1	2	1	1.7	1.4	-0.3	-0.05	-0.03	0	0	0	0	0	0
6/16/2024 13:42	56801	BENV_T1	3	3	0	0.27	0.47	0.2	-0.83	-0.8	2	2	0	1200	1200	0
6/16/2024 13:42	11104	EGYP_T1	6	0	-6	1.98	0	-1.98	0	0	0	0	0	0	0	0
6/16/2024 13:42	11101	EGYP_T1	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
6/16/2024 13:44	62102	ELAN_T1	1	1	0	0.1	0.3	0.2	1.3	1.22	0	0	0	0	0	0
6/16/2024 13:46	64203	KINZ_T1	0	0	0	0	0	0	0.6	0.52	0	0	0	0	0	0
6/16/2024 13:46	64204	KINZ_T1	2	1	-1	0.5	0.5	0	0	0	0	0	0	0	0	0
6/16/2024 13:46	64201	KINZ_T1	1	1	0	0.2	0.2	0	-0.4	-0.4	3	3	0	1500	1500	0
6/16/2024 13:47	58402	MORO_T1	0	1	1	0	0	0	-0.28	-0.26	2	2	0	1500	1500	0
6/16/2024 13:47	44203	POIN_T2	0	0	0	0	0	0	0.11	0.1	1	1	0	900	900	0
6/16/2024 13:47	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 13:48	65205	PRIN_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
6/16/2024 13:48	65202	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 13:49	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 13:49	44203	POIN_T2	0	0	0	0	0	0	0.11	0.1	1	1	0	900	900	0
6/16/2024 13:50	44601	SALE_T2	2	4	2	0.2	0.3	0.1	-0.03	-0.02	0	0	0	0	0	0
6/16/2024 13:51	44202	POIN_T2	0	1	1	0	0	0	-1.45	-1.43	2	2	0	2400	2400	0
6/16/2024 13:51	58402	MORO_T1	0	1	1	0	0	0	-0.28	-0.26	2	2	0	1500	1500	0
6/16/2024 13:54	67605	WARW_T1	1	2	1	1.1	0.65	-0.45	-1.08	-1.06	0	0	0	0	0	0
6/16/2024 13:57	61505	EPET_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 13:57	61502	EPET_T1	1	1	0	0.3	0.2	-0.1	-2.7	-2.67	0	0	0	0	0	0
6/16/2024 13:58	61506	EPET_T2	0	0	0	0	0	0	-1.97	-1.96	2	2	0	1800	1800	0
6/16/2024 13:58	56801	BENV_T1	3	3	0	0.3	0.45	0.15	-0.4	-0.38	1	1	0	600	600	0
6/16/2024 13:58	61501	EPET_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
6/16/2024 13:58	56803	BENV_T1	5	7	2	2.22	1.1	-1.12	0	0	0	0	0	0	0	0
6/16/2024 13:59	67605	WARW_T1	1	2	1	1.1	0.65	-0.45	-1.08	-1.06	0	0	0	0	0	0
6/16/2024 14:00	54602	SUMM_T2	0	0	0	0	0	0	-2.81	-2.68	1	1	0	600	600	0
6/16/2024 14:00	41801	GOCI_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/16/2024 14:01	41801	GOCI_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/16/2024 14:02	40602	PIGR_T1	1	1	0	1.9	1.7	-0.2	0	0	1	1	0	600	600	0
6/16/2024 14:03	40602	PIGR_T1	1	1	0	1.9	1.7	-0.2	0	0	1	1	0	600	600	0
6/16/2024 14:04	60803	BUCK_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	600	600	0
6/16/2024 14:05	66902	SHIL_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/16/2024 14:05	66901	SHIL_T2	2	2	0	0.15	0.2	0.05	0.21	0.26	0	0	0	0	0	0
6/16/2024 14:05	66903	SHIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/16/2024 14:06	44601	SALE_T2	3	4	1	0.23	0.25	0.02	-0.02	-0.01	0	0	0	0	0	0
6/16/2024 14:07	44601	SALE_T2	3	4	1	0.23	0.25	0.02	-0.02	-0.01	0	0	0	0	0	0
6/16/2024 14:08	42701	AUGU_T1	79	85	6	1.48	1.5	0.02	0	0	0	0	0	0	0	0
6/16/2024 14:08	60301	TWVA_T2	0	0	0	0	0	0	-2.92	-2.94	3	3	0	2700	2700	0
6/16/2024 14:09	56801	BENV_T1	2	1	-1	0.45	0.1	-0.35	-0.38	-0.36	1	1	0	600	600	0
6/16/2024 14:09	42701	AUGU_T1	79	85	6	1.48	1.5	0.02	0	0	0	0	0	0	0	0
6/16/2024 14:09	56803	BENV_T1	5	6	1	1.34	0.82	-0.52	0	0	0	0	0	0	0	0
6/16/2024 14:10	42701	AUGU_T1	79	85	6	1.48	1.5	0.02	0	0	0	0	0	0	0	0
6/16/2024 14:11	42701	AUGU_T1	79	85	6	1.48	1.5	0.02	0	0	0	0	0	0	0	0
6/16/2024 14:12	42701	AUGU_T1	79	85	6	1.48	1.5	0.02	0	0	0	0	0	0	0	0
6/16/2024 14:13	42701	AUGU_T1	79	85	6	1.48	1.5	0.02	0	0	0	0	0	0	0	0
6/16/2024 14:14	41801	GOCI_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/16/2024 14:16	59301	MCAL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/16/2024 14:16	41801	GOCI_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/16/2024 14:16	43202	MVIL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/16/2024 14:16	43201	MVIL_T2	1	0	-1	0.4	0	-0.4	-0.26	-0.25	0	0	0	0	0	0
6/16/2024 14:16	59302	MCAL_T1	0	0	0	0	0	0	-0.23	-0.22	1	1	0	600	600	0
6/16/2024 14:17	41801	GOCI_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/16/2024 14:19	56504	ROCK_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/16/2024 14:19	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/16/2024 14:19	56501	ROCK_T2	5	4	-1	3.84	4.85	1.01	-0.81	-0.78	0	0	0	0	0	0
6/16/2024 14:20	67401	WAKE_T2	0	0	0	0	0	0	-0.81	-0.8	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/16/2024 14:21	55101	WERT_T1	0	0	0	0	0	0	-1.38	-1.39	2	2	0	1500	1500	0
6/16/2024 14:21	55103	WERT_T1	2	2	0	3.5	3.65	0.15	0	0	0	0	0	0	0	0
6/16/2024 14:25	60803	BUCK_T1	0	2	2	0	0.1	0.1	-0.97	-0.96	1	1	0	600	600	0
6/16/2024 14:25	60801	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 14:39	15001	BLMO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 14:40	15001	BLMO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 14:40	10901	COOP_T2	0	0	0	0	0	0	-0.09	-0.09	1	1	0	1200	1200	0
6/16/2024 14:42	15001	BLMO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 14:43	53501	EVIL_T2	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
6/16/2024 14:43	15001	BLMO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 14:43	53502	EVIL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/16/2024 14:45	24205	PROV_T3	1	1	0	2	1.2	-0.8	0	0	0	0	0	0	0	0
6/16/2024 14:45	24204	PROV_T3	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
6/16/2024 14:45	24201	PROV_T3	1	1	0	6.8	6.5	-0.3	-1.09	-1.08	1	1	0	1200	1200	0
6/16/2024 14:46	46004	BERW_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/16/2024 14:46	46002	BERW_T2	1	1	0	0.4	0.2	-0.2	-1.63	-1.64	1	1	0	900	900	0
6/16/2024 14:47	15001	BLMO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 14:48	27005	BELL_T1	0	0	0	0	0	0	-1.3	-1.28	0	0	0	0	0	0
6/16/2024 14:49	62102	ELAN_T1	0	0	0	0	0	0	1.34	1.47	0	0	0	0	0	0
6/16/2024 14:49	46803	HEPB_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/16/2024 14:49	46801	HEPB_T2	2	2	0	0.45	0.3	-0.15	1.07	1.09	0	0	0	0	0	0
6/16/2024 14:49	46002	BERW_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/16/2024 14:49	46004	BERW_T2	0	1	1	0	0.4	0.4	-0.05	-0.04	0	0	0	0	0	0
6/16/2024 14:50	46002	BERW_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/16/2024 14:50	46004	BERW_T2	0	1	1	0	0.4	0.4	-0.05	-0.04	0	0	0	0	0	0
6/16/2024 14:51	46803	HEPB_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/16/2024 14:51	40101	HUNT_T2	2	3	1	0.55	0.3	-0.25	-0.38	-0.36	0	0	0	0	0	0
6/16/2024 14:51	46801	HEPB_T2	2	2	0	0.45	0.3	-0.15	1.09	1.1	0	0	0	0	0	0
6/16/2024 14:54	58402	MORO_T1	0	1	1	0	0	0	-0.17	-0.14	2	2	0	1500	1500	0
6/16/2024 14:54	52403	GRPA_T2	2	7	5	0.65	0.67	0.02	0	0	0	0	0	0	0	0
6/16/2024 14:54	52404	GRPA_T2	0	1	1	0	0.2	0.2	-0.22	-0.21	0	0	0	0	0	0
6/16/2024 14:54	46802	HEPB_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
6/16/2024 14:57	14404	SSLA_T1	1	1	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
6/16/2024 14:57	14403	SSLA_T1	1	1	0	0.4	0.3	-0.1	0.58	0.6	1	1	0	600	600	0
6/16/2024 14:57	66504	SMAN_T2	0	0	0	0	0	0	-0.85	-0.83	1	1	0	1200	1200	0
6/16/2024 15:00	55103	WERT_T1	2	2	0	3.8	7.2	3.4	0	0	0	0	0	0	0	0
6/16/2024 15:00	55101	WERT_T1	0	0	0	0	0	0	-1.31	-1.23	2	2	0	1500	1500	0
6/16/2024 15:01	10805	CHHI_T2	1	2	1	8.3	8.2	-0.1	-1.19	-1.13	1	1	0	600	600	0
6/16/2024 15:02	55103	WERT_T1	2	2	0	3.8	7.2	3.4	0	0	0	0	0	0	0	0
6/16/2024 15:02	55101	WERT_T1	0	0	0	0	0	0	-1.31	-1.23	2	2	0	1500	1500	0
6/16/2024 15:03	55101	WERT_T1	0	0	0	0	0	0	-1.31	-1.23	2	2	0	1500	1500	0
6/16/2024 15:03	55103	WERT_T1	2	2	0	3.8	7.2	3.4	0	0	0	0	0	0	0	0
6/16/2024 15:04	10801	CHHI_T1	4	4	0	0.35	0.47	0.12	-1.42	-1.39	3	3	0	2100	2100	0
6/16/2024 15:04	55103	WERT_T1	2	2	0	3.8	7.2	3.4	0	0	0	0	0	0	0	0
6/16/2024 15:04	55101	WERT_T1	0	0	0	0	0	0	-2.61	-2.46	4	4	0	3000	3000	0
6/16/2024 15:04	61701	ELIZ_T1	1	1	0	1.6	1.6	0	1.36	1.4	0	0	0	0	0	0
6/16/2024 15:05	61701	ELIZ_T1	1	1	0	1.6	1.6	0	0.68	0.7	0	0	0	0	0	0
6/16/2024 15:09	40901	JESH_T1	1	1	0	1.5	1.8	0.3	0	0	0	0	0	0	0	0
6/16/2024 15:09	40902	JESH_T1	0	1	1	0	0	0	-1.17	-1.16	1	1	0	600	600	0
6/16/2024 15:10	46506	LOHA_T1	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
6/16/2024 15:11	65005	NEFF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/16/2024 15:11	65001	NEFF_T2	0	0	0	0	0	0	-0.51	-0.3	1	1	0	1200	1200	0
6/16/2024 15:11	65003	NEFF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/16/2024 15:12	13606	RICH_T2	2	1	-1	3.95	7.8	3.85	1.09	1.07	0	0	0	0	0	0
6/16/2024 15:13	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/16/2024 15:14	66505	SMAN_T2	0	0	0	0	0	0	0.56	0	3	4	1	1700	2300	600
6/16/2024 15:17	66505	SMAN_T2	0	0	0	0	0	0	0.56	0	3	4	1	1700	2300	600
6/16/2024 15:19	53902	HALI_T2	1	2	1	4.3	4	-0.3	-0.65	-0.64	0	0	0	0	0	0
6/16/2024 15:19	53903	HALI_T2	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/16/2024 15:19	21206	ECAR_T2	1	1	0	7	7.2	0.2	0	0.01	0	0	0	0	0	0
6/16/2024 15:19	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 15:21	53903	HALI_T2	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/16/2024 15:21	53902	HALI_T2	1	2	1	4.3	4	-0.3	-0.65	-0.64	0	0	0	0	0	0
6/16/2024 15:22	52004	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 15:23	52004	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 15:23	53902	HALI_T2	1	2	1	4.3	4	-0.3	-0.64	-0.63	0	0	0	0	0	0
6/16/2024 15:23	47001	HUGH_T2	0	0	0	0	0	0	-1.37	-1.36	1	1	0	900	900	0
6/16/2024 15:23	53903	HALI_T2	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/16/2024 15:23	47101	MARL_T1	0	0	0	0	0	0	-1.66	-1.56	3	3	0	1800	1800	0
6/16/2024 15:24	53902	HALI_T2	1	2	1	4.3	4	-0.3	-0.64	-0.63	0	0	0	0	0	0
6/16/2024 15:24	47101	MARL_T1	0	0	0	0	0	0	-0.55	-0.52	1	1	0	600	600	0
6/16/2024 15:24	53903	HALI_T2	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/16/2024 15:25	53903	HALI_T2	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/16/2024 15:25	53902	HALI_T2	1	2	1	4.3	4	-0.3	-0.64	-0.63	0	0	0	0	0	0
6/16/2024 15:27	47101	MARL_T1	0	0	0	0	0	0	-0.55	-0.52	1	1	0	600	600	0
6/16/2024 15:28	57401	SPAN_T1	2	1	-1	0.6	0	-0.6	-0.61	-0.58	1	1	0	600	600	0
6/16/2024 15:28	47101	MARL_T1	0	0	0	0	0	0	-0.55	-0.52	1	1	0	600	600	0
6/16/2024 15:30	47001	HUGH_T2	0	0	0	0	0	0	-1.37	-1.36	1	1	0	900	900	0
6/16/2024 15:31	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 15:31	21206	ECAR_T2	1	1	0	7.2	6.9	-0.3	0.01	0.02	0	0	0	0	0	0
6/16/2024 15:33	10805	CHHI_T2	1	1	0	8.3	8.5	0.2	-1.13	-1.12	1	1	0	600	600	0
6/16/2024 15:33	24902	WHHA_T1	0	1	1	0	0	0	0.66	0.67	0	0	0	0	0	0
6/16/2024 15:33	24901	WHHA_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
6/16/2024 15:34	14204	EALL_T2	0	0	0	0	0	0	-0.32	-0.24	0	0	0	0	0	0
6/16/2024 15:37	65401	MARI_T1	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
6/16/2024 15:39	52004	LING_T2	1	0	-1	0.2	0	-0.2	0	0.01	0	0	0	0	0	0
6/16/2024 15:39	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 15:40	55001	NEWP_T1	0	2	2	0	0	0	0.12	0.13	0	0	0	0	0	0
6/16/2024 15:42	55001	NEWP_T1	0	2	2	0	0	0	0.12	0.13	0	0	0	0	0	0
6/16/2024 15:43	55001	NEWP_T1	0	2	2	0	0	0	0.35	0.38	0	0	0	0	0	0
6/16/2024 15:44	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 15:45	43304	WATS_T2	0	1	1	0	0	0	-2.43	-2.41	0	0	0	0	0	0
6/16/2024 15:47	42701	AUGU_T1	97	113	16	1.8	1.85	0.05	0	0	0	0	0	0	0	0
6/16/2024 15:47	43304	WATS_T2	0	1	1	0	0	0	-0.81	-0.8	0	0	0	0	0	0
6/16/2024 15:50	21206	ECAR_T2	1	1	0	6.9	6.8	-0.1	0.02	0.04	0	0	0	0	0	0
6/16/2024 15:50	21204	ECAR_T2	1	2	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 15:51	40901	JESH_T1	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
6/16/2024 15:51	40902	JESH_T1	0	0	0	0	0	0	-1.13	-1.12	1	1	0	600	600	0
6/16/2024 15:51	61702	ELIZ_T2	0	1	1	0	0	0	-2.27	-2.28	2	2	0	1500	1500	0
6/16/2024 15:56	65901	SAKR_T2	1	1	0	6.8	6.5	-0.3	-0.89	-0.91	2	2	0	1500	1500	0
6/16/2024 15:56	25503	MADI_T1	1	0	-1	0.4	0	-0.4	-0.67	-0.66	0	0	0	0	0	0
6/16/2024 15:56	25501	MADI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 15:58	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 15:59	67103	SPRI_T1	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
6/16/2024 16:00	55101	WERT_T1	0	0	0	0	0	0	-1.24	-1.21	2	2	0	1500	1500	0
6/16/2024 16:00	55103	WERT_T1	1	1	0	6.7	5.8	-0.9	0	0	0	0	0	0	0	0
6/16/2024 16:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 16:01	55103	WERT_T1	1	1	0	6.7	5.8	-0.9	0	0	0	0	0	0	0	0
6/16/2024 16:01	54001	SDLE_T1	0	2	2	0	0.1	0.1	0	0	1	1	0	600	600	0
6/16/2024 16:01	55101	WERT_T1	0	0	0	0	0	0	-1.24	-1.21	2	2	0	1500	1500	0
6/16/2024 16:02	55101	WERT_T1	0	0	0	0	0	0	-1.24	-1.21	2	2	0	1500	1500	0
6/16/2024 16:02	55103	WERT_T1	1	1	0	6.7	5.8	-0.9	0	0	0	0	0	0	0	0
6/16/2024 16:03	55101	WERT_T1	0	0	0	0	0	0	-1.24	-1.21	2	2	0	1500	1500	0
6/16/2024 16:03	55103	WERT_T1	1	1	0	6.7	5.8	-0.9	0	0	0	0	0	0	0	0
6/16/2024 16:04	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 16:09	45801	HEGI_T1	1	0	-1	0.1	0	-0.1	-0.05	-0.66	1	1	0	900	900	0
6/16/2024 16:10	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 16:12	41902	REED_T1	5	11	6	1.56	0.1	-1.46	0.34	0.33	0	0	0	0	0	0
6/16/2024 16:14	41902	REED_T1	5	11	6	1.56	0.1	-1.46	0.34	0.33	0	0	0	0	0	0
6/16/2024 16:15	58003	WCAR_T1	3	3	0	0.5	0.47	-0.03	0.25	0.27	1	1	0	600	600	0
6/16/2024 16:15	55103	WERT_T1	1	3	2	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
6/16/2024 16:15	55101	WERT_T1	0	0	0	0	0	0	-1.21	-1.15	2	2	0	1500	1500	0
6/16/2024 16:15	58001	WCAR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/16/2024 16:16	14403	SSLA_T1	0	0	0	0	0	0	0.67	0.08	1	2	1	600	1200	600
6/16/2024 16:16	14404	SSLA_T1	1	1	0	3.1	2.9	-0.2	0	0	0	0	0	0	0	0
6/16/2024 16:18	42701	AUGU_T1	112	134	22	2.05	2.06	0.01	0	0	0	0	0	0	0	0
6/16/2024 16:19	56801	BENV_T1	4	5	1	0.53	0.58	0.05	-0.25	-0.24	1	1	0	600	600	0
6/16/2024 16:19	56803	BENV_T1	5	8	3	1.32	1.08	-0.24	0	0	0	0	0	0	0	0
6/16/2024 16:19	42701	AUGU_T1	112	134	22	2.05	2.06	0.01	0	0	0	0	0	0	0	0
6/16/2024 16:20	11804	FRAN_T1	7	23	16	0.44	0.58	0.14	1.09	1.07	0	0	0	0	0	0
6/16/2024 16:20	42701	AUGU_T1	112	134	22	2.05	2.06	0.01	0	0	0	0	0	0	0	0
6/16/2024 16:25	46602	LACR_T1	0	0	0	0	0	0	0.91	0.93	0	0	0	0	0	0
6/16/2024 16:29	65902	SAKR_T2	0	0	0	0	0	0	-0.44	-0.42	1	1	0	300	300	0
6/16/2024 16:29	65901	SAKR_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
6/16/2024 16:30	67103	SPRI_T1	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
6/16/2024 16:32	54001	SDLE_T1	2	2	0	0.45	0.3	-0.15	0	0	1	1	0	600	600	0
6/16/2024 16:35	42701	AUGU_T1	124	134	10	2.05	2.27	0.22	0	0	0	0	0	0	0	0
6/16/2024 16:40	52002	LING_T2	0	1	1	0	0	0	-0.15	-0.11	0	0	0	0	0	0
6/16/2024 16:40	43802	SWIL_T1	0	0	0	0	0	0	0.23	0.24	1	1	0	600	600	0
6/16/2024 16:40	43801	SWIL_T1	2	2	0	3.35	3.25	-0.1	0	0	0	0	0	0	0	0
6/16/2024 16:41	58401	MORO_T1	0	2	2	0	0.2	0.2	-1.89	-1.86	3	3	0	2100	2100	0
6/16/2024 16:42	58401	MORO_T1	0	2	2	0	0.2	0.2	-1.89	-1.86	3	3	0	2100	2100	0
6/16/2024 16:46	67103	SPRI_T1	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
6/16/2024 16:47	46203	DANV_T2	0	0	0	0	0	0	-1.59	-1.53	0	0	0	0	0	0
6/16/2024 16:50	22003	BOHE_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/16/2024 16:50	22002	BOHE_T1	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
6/16/2024 16:51	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
6/16/2024 16:51	25402	LAHA_T2	0	0	0	0	0	0	-0.41	-0.46	0	0	0	0	0	0
6/16/2024 16:52	46203	DANV_T2	0	0	0	0	0	0	-1.53	-1.57	0	0	0	0	0	0
6/16/2024 16:56	46203	DANV_T2	0	0	0	0	0	0	-1.53	-1.57	0	0	0	0	0	0
6/16/2024 17:06	63401	HONY_T1	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
6/16/2024 17:06	52403	GRPA_T2	70	79	9	0.74	0.72	-0.02	-0.15	-0.21	0	0	0	0	0	0
6/16/2024 17:06	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 17:06	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 17:06	52401	GRPA_T2	4	11	7	0.38	0.48	0.1	0	0	0	0	0	0	0	0
6/16/2024 17:07	52401	GRPA_T2	4	11	7	0.38	0.48	0.1	0	0	0	0	0	0	0	0
6/16/2024 17:07	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 17:07	52403	GRPA_T2	70	79	9	0.74	0.72	-0.02	-0.21	-0.33	0	0	0	0	0	0
6/16/2024 17:07	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 17:08	52401	GRPA_T2	4	11	7	0.38	0.48	0.1	0	0	0	0	0	0	0	0
6/16/2024 17:08	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 17:08	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 17:08	52403	GRPA_T2	70	79	9	0.74	0.72	-0.02	-0.21	-0.33	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/16/2024 17:09	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 17:09	52403	GRPA_T2	70	79	9	0.74	0.72	-0.02	-0.21	-0.33	0	0	0	0	0	0
6/16/2024 17:09	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 17:09	52401	GRPA_T2	4	11	7	0.38	0.48	0.1	0	0	0	0	0	0	0	0
6/16/2024 17:22	46203	DANV_T2	0	0	0	0	0	0	-1.57	-1.56	0	0	0	0	0	0
6/16/2024 17:22	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 17:23	53302	GRAT_T2	57	43	-14	0.48	0.38	-0.1	0	0	0	0	0	0	0	0
6/16/2024 17:26	64101	REFR_T1	0	4	4	0	0	0	0.93	0.95	0	0	0	0	0	0
6/16/2024 17:27	64101	REFR_T1	0	4	4	0	0	0	1.4	1.42	0	0	0	0	0	0
6/16/2024 17:28	64101	REFR_T1	0	4	4	0	0	0	0.47	0.47	0	0	0	0	0	0
6/16/2024 17:30	64101	REFR_T1	3	7	4	0.2	0	-0.2	0.47	0.47	0	0	0	0	0	0
6/16/2024 17:31	64101	REFR_T1	3	7	4	0.2	0	-0.2	0.47	0.47	0	0	0	0	0	0
6/16/2024 17:35	52402	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
6/16/2024 17:35	52401	GRPA_T2	8	5	-3	0.49	0.47	-0.02	0	0	0	0	0	0	0	0
6/16/2024 17:35	52403	GRPA_T2	67	61	-6	1	0.96	-0.04	-0.33	-0.63	0	0	0	0	0	0
6/16/2024 17:35	61702	ELIZ_T2	0	1	1	0	0	0	-2.22	-2.23	2	2	0	1500	1500	0
6/16/2024 17:39	53302	GRAT_T2	43	37	-6	0.37	0.31	-0.06	0	0	0	0	0	0	0	0
6/16/2024 17:43	64101	REFR_T1	3	7	4	0.2	0	-0.2	0.47	0.48	0	0	0	0	0	0
6/16/2024 17:46	57106	SPHI_T2	3	3	0	0.17	0.23	0.06	0	0	0	0	0	0	0	0
6/16/2024 17:46	57104	SPHI_T2	1	1	0	1.2	1.2	0	-2.19	-2.19	1	1	0	900	900	0
6/16/2024 17:48	46203	DANV_T2	0	1	1	0	0	0	-1.56	-1.56	0	0	0	0	0	0
6/16/2024 17:48	46206	DANV_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/16/2024 17:49	46206	DANV_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/16/2024 17:49	46203	DANV_T2	0	1	1	0	0	0	-1.56	-1.56	0	0	0	0	0	0
6/16/2024 17:50	46203	DANV_T2	0	1	1	0	0	0	-1.56	-1.56	0	0	0	0	0	0
6/16/2024 17:50	41602	CLEV_T1	18	7	-11	0.49	0.2	-0.29	0	0	1	1	0	600	600	0
6/16/2024 17:50	46206	DANV_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/16/2024 17:53	52402	GRPA_T2	2	2	0	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/16/2024 17:53	52404	GRPA_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
6/16/2024 17:53	52401	GRPA_T2	5	5	0	0.38	0.45	0.07	0	0	0	0	0	0	0	0
6/16/2024 17:53	52403	GRPA_T2	55	62	7	0.96	1.19	0.23	0	0	0	0	0	0	0	0
6/16/2024 17:57	54001	SDLE_T1	2	2	0	0.2	0	-0.2	0	0	1	1	0	600	600	0
6/16/2024 17:58	54001	SDLE_T1	2	2	0	0.2	0	-0.2	0	0	1	1	0	600	600	0
6/16/2024 18:22	63804	HEMP_T1	1	1	0	6.6	6.4	-0.2	-0.11	-0.09	0	0	0	0	0	0
6/16/2024 18:26	52402	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/16/2024 18:26	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 18:26	52401	GRPA_T2	4	4	0	0.83	0.4	-0.43	0	0	0	0	0	0	0	0
6/16/2024 18:26	52403	GRPA_T2	58	56	-2	1.19	0.93	-0.26	-0.69	-0.71	0	0	0	0	0	0
6/16/2024 18:30	44301	BEAV_T2	2	2	0	1	0.7	-0.3	-0.6	-0.6	1	1	0	600	600	0
6/16/2024 18:31	20403	ASHF_T2	1	1	0	1.5	0.1	-1.4	0.79	0.77	0	0	0	0	0	0
6/16/2024 18:31	20401	ASHF_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
6/16/2024 18:32	42701	AUGU_T1	124	125	1	2.35	2.21	-0.14	0	0	0	0	0	0	0	0
6/16/2024 18:33	44301	BEAV_T2	2	2	0	1	0.7	-0.3	-0.6	-0.6	1	1	0	600	600	0
6/16/2024 18:33	42701	AUGU_T1	124	125	1	2.35	2.21	-0.14	0	0	0	0	0	0	0	0
6/16/2024 18:38	12602	MACA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/16/2024 18:38	12601	MACA_T1	0	0	0	0	0	0	1.31	1.29	0	0	0	0	0	0
6/16/2024 18:38	12606	MACA_T1	8	1	-7	0.33	0	-0.33	0	0	0	0	0	0	0	0
6/16/2024 18:41	29402	BELT_T1	1	1	0	9.2	9.3	0.1	0	0	0	0	0	0	0	0
6/16/2024 18:41	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/16/2024 18:43	57106	SPHI_T2	3	3	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/16/2024 18:43	57104	SPHI_T2	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
6/16/2024 18:43	57103	SPHI_T2	0	0	0	0	0	0	-0.98	-1	1	1	0	600	600	0
6/16/2024 18:44	41902	REED_T1	5	2	-3	0.34	0	-0.34	0	0	0	0	0	0	0	0
6/16/2024 18:44	41903	REED_T1	0	0	0	0	0	0	-0.05	-0.12	1	1	0	1200	1200	0
6/16/2024 18:51	62102	ELAN_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
6/16/2024 18:53	46901	MNTG_T2	0	3	3	0	0.13	0.13	0.45	0.42	0	0	0	0	0	0
6/16/2024 18:53	46903	MNTG_T2	1	14	13	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
6/16/2024 18:53	46902	MNTG_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 18:55	61701	ELIZ_T1	1	1	0	1.3	1.9	0.6	0.25	0.29	0	0	0	0	0	0
6/16/2024 19:05	46206	DANV_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/16/2024 19:05	46203	DANV_T2	0	0	0	0	0	0	-1.57	-1.59	0	0	0	0	0	0
6/16/2024 19:06	61701	ELIZ_T1	1	1	0	1.6	2	0.4	0.29	0.29	0	0	0	0	0	0
6/16/2024 19:19	10102	ALLE_T2	1	1	0	7.8	7.9	0.1	0	0	0	0	0	0	0	0
6/16/2024 19:19	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 19:20	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 19:20	52404	GRPA_T2	3	1	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/16/2024 19:20	52401	GRPA_T2	1	6	5	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
6/16/2024 19:20	52403	GRPA_T2	71	60	-11	1.07	0.88	-0.19	-0.13	-0.41	0	0	0	0	0	0
6/16/2024 19:24	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 19:24	65401	MARI_T1	4	0	-4	0.33	0	-0.33	0	0	0	0	0	0	0	0
6/16/2024 19:25	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.69	1	1	0	900	900	0
6/16/2024 19:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 19:28	40502	CRES_T2	2	5	3	0.2	0.14	-0.06	-0.49	-0.52	0	0	0	0	0	0
6/16/2024 19:30	40502	CRES_T2	4	5	1	0.15	0.2	0.05	-0.98	-1.03	0	0	0	0	0	0
6/16/2024 19:30	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 19:30	46001	BERW_T1	0	2	2	0	0	0	0.93	0.92	0	0	0	0	0	0
6/16/2024 19:31	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 19:31	40502	CRES_T2	4	5	1	0.15	0.2	0.05	-0.49	-0.52	0	0	0	0	0	0
6/16/2024 19:38	46903	MNTG_T2	22	35	13	0.2	0.19	-0.01	0.26	0.24	1	1	0	600	600	0
6/16/2024 19:38	46902	MNTG_T2	12	10	-2	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
6/16/2024 19:38	46901	MNTG_T2	5	5	0	0.18	0.22	0.04	0	0	0	0	0	0	0	0
6/16/2024 19:42	57103	SPHI_T2	0	0	0	0	0	0	-1.04	-1.05	1	1	0	600	600	0
6/16/2024 19:42	57106	SPHI_T2	3	3	0	0.47	0.53	0.06	0	0	0	0	0	0	0	0
6/16/2024 19:42	57104	SPHI_T2	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
6/16/2024 19:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 19:43	40502	CRES_T2	4	5	1	0.15	0.2	0.05	-0.52	-0.54	0	0	0	0	0	0
6/16/2024 19:44	65604	QVIL_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
6/16/2024 19:44	65603	QVIL_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
6/16/2024 19:48	42701	AUGU_T1	112	110	-2	2.11	2.24	0.13	0	0	0	0	0	0	0	0
6/16/2024 19:49	42701	AUGU_T1	112	110	-2	2.11	2.24	0.13	0	0	0	0	0	0	0	0
6/16/2024 19:49	10705	CATA_T2	0	0	0	0	0	0	-1.53	-1.57	1	1	0	900	900	0
6/16/2024 19:51	53502	EVIL_T2	0	0	0	0	0	0	0.35	0.34	1	1	0	600	600	0
6/16/2024 19:51	53501	EVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 19:56	52004	LING_T2	1	0	-1	0.9	0	-0.9	0.03	0.03	0	0	0	0	0	0
6/16/2024 19:58	15204	SFAR_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
6/16/2024 19:59	16301	ALPA_T1	1	3	2	0.3	0.27	-0.03	0.3	0.26	0	0	0	0	0	0
6/16/2024 20:09	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 20:09	40502	CRES_T2	5	12	7	0.2	0.26	0.06	-0.57	-0.59	0	0	0	0	0	0
6/16/2024 20:11	13503	MCMI_T2	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
6/16/2024 20:12	56802	BENV_T2	0	0	0	0	0	0	-1.08	-1.09	0	0	0	0	0	0
6/16/2024 20:12	20403	ASHF_T2	0	1	1	0	0	0	0.6	0.57	0	0	0	0	0	0
6/16/2024 20:15	20403	ASHF_T2	1	0	-1	0.6	0	-0.6	0.6	0.57	0	0	0	0	0	0
6/16/2024 20:19	15204	SFAR_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
6/16/2024 20:42	10801	CHHI_T1	0	0	0	0	0	0	-1.45	-1.49	3	3	0	2100	2100	0
6/16/2024 20:55	15702	TANN_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
6/16/2024 20:55	15703	TANN_T2	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
6/16/2024 20:56	15702	TANN_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
6/16/2024 20:56	15703	TANN_T2	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
6/16/2024 20:57	15703	TANN_T2	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
6/16/2024 20:57	15702	TANN_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
6/16/2024 21:12	24205	PROV_T3	1	3	2	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/16/2024 21:12	24201	PROV_T3	1	1	0	6.4	6.6	0.2	-1.12	-1.13	1	1	0	1200	1200	0
6/16/2024 21:12	24204	PROV_T3	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
6/16/2024 21:26	64101	REFR_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
6/16/2024 21:30	45702	LIND_T2	1	2	1	0.4	0.35	-0.05	-1.62	-1.64	0	0	0	0	0	0
6/16/2024 21:31	45702	LIND_T2	1	2	1	0.4	0.35	-0.05	-1.62	-1.64	0	0	0	0	0	0
6/16/2024 21:37	16102	BING_T2	5	10	5	0.16	0.22	0.06	0	0	0	0	0	0	0	0
6/16/2024 21:37	16103	BING_T2	0	0	0	0	0	0	-1.07	-1.07	1	1	0	900	900	0
6/16/2024 21:48	52403	GRPA_T2	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/16/2024 21:48	52402	GRPA_T2	0	1	1	0	0.4	0.4	-0.6	-0.59	0	0	0	0	0	0
6/16/2024 21:48	52401	GRPA_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/16/2024 21:51	40101	HUNT_T2	1	0	-1	1	0	-1	-0.4	-0.4	0	0	0	0	0	0
6/16/2024 21:54	67402	WAKE_T2	0	0	0	0	0	0	-0.17	-0.19	1	1	0	600	600	0
6/16/2024 21:54	67303	WYOM_T2	0	0	0	0	0	0	-1.59	-1.68	0	0	0	0	0	0
6/16/2024 21:57	67402	WAKE_T2	0	0	0	0	0	0	-0.17	-0.19	1	1	0	600	600	0
6/16/2024 22:03	20601	GRWO_T2	1	0	-1	0.1	0	-0.1	-0.18	-0.19	0	0	0	0	0	0
6/16/2024 22:03	20603	GRWO_T2	54	9	-45	0.22	0.11	-0.11	0	0	0	0	0	0	0	0
6/16/2024 22:06	20603	GRWO_T2	54	9	-45	0.22	0.11	-0.11	0	0	0	0	0	0	0	0
6/16/2024 22:06	20601	GRWO_T2	1	0	-1	0.1	0	-0.1	-0.18	-0.19	0	0	0	0	0	0
6/16/2024 22:19	24702	FLND_T2	0	0	0	0	0	0	-0.57	-0.68	1	1	0	1200	1200	0
6/16/2024 22:21	66703	STRA_T1	0	0	0	0	0	0	0	-0.16	0	0	0	0	0	0
6/16/2024 22:25	66703	STRA_T1	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
6/16/2024 22:27	26704	HEML_T2	0	38	38	0	0.13	0.13	-0.78	-0.79	1	1	0	1200	1200	0
6/16/2024 22:27	10602	BLGL_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
6/16/2024 22:28	66703	STRA_T1	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
6/16/2024 22:28	45802	HEGI_T2	10	2	-8	0.28	0.1	-0.18	0.33	0.32	0	0	0	0	0	0
6/16/2024 22:30	61701	ELIZ_T1	1	1	0	4	4.2	0.2	0.11	0	0	0	0	0	0	0
6/16/2024 22:33	27603	PIRI_T2	0	0	0	0	0	0	-1.1	-1.05	2	2	0	1800	1800	0
6/16/2024 22:34	61701	ELIZ_T1	1	1	0	4	4.2	0.2	0.11	0	0	0	0	0	0	0
6/16/2024 22:34	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:34	21206	ECAR_T2	1	1	0	7.7	7.9	0.2	0.04	0.02	0	0	0	0	0	0
6/16/2024 22:34	48302	ORWI_T2	2	2	0	0.3	0.3	0	0.06	0.04	0	0	0	0	0	0
6/16/2024 22:36	53903	HALI_T2	2	2	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:36	42701	AUGU_T1	80	73	-7	1.17	0.77	-0.4	0	0	0	0	0	0	0	0
6/16/2024 22:36	61702	ELIZ_T2	0	0	0	0	0	0	-1.91	-1.96	2	2	0	1500	1500	0
6/16/2024 22:36	53901	HALI_T2	1	1	0	0.2	0.4	0.2	-1.25	-1.26	0	0	0	0	0	0
6/16/2024 22:36	53902	HALI_T2	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
6/16/2024 22:37	22003	BOHE_T1	18	25	7	0.18	0.22	0.04	0	0	0	0	0	0	0	0
6/16/2024 22:37	65001	NEFF_T2	0	15	15	0	0.1	0.1	-0.99	-1.01	1	1	0	1200	1200	0
6/16/2024 22:37	10805	CHHI_T2	1	1	0	7.3	7.5	0.2	-1.25	-1.26	1	1	0	600	600	0
6/16/2024 22:37	22002	BOHE_T1	1	1	0	0.1	0.2	0.1	0.38	0.33	0	0	0	0	0	0
6/16/2024 22:37	55101	WERT_T1	0	0	0	0	0	0	-1.15	-1.13	2	2	0	1500	1500	0
6/16/2024 22:37	46002	BERW_T2	0	0	0	0	0	0	-1.84	-1.86	1	1	0	900	900	0
6/16/2024 22:37	12701	MACU_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	1200	1200	0
6/16/2024 22:37	65003	NEFF_T2	3	4	1	0.13	0.2	0.07	0	0	0	0	0	0	0	0
6/16/2024 22:38	56801	BENV_T1	8	7	-1	0.86	1.13	0.27	-0.52	-0.54	1	1	0	600	600	0
6/16/2024 22:38	20403	ASHF_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
6/16/2024 22:38	46802	HEPB_T1	2	3	1	0.6	0.53	-0.07	-0.05	-0.07	0	0	0	0	0	0
6/16/2024 22:38	47002	HUGH_T2	5	7	2	0.2	0.29	0.09	0	0	0	0	0	0	0	0
6/16/2024 22:38	66504	SMAN_T2	0	0	0	0	0	0	-2.65	-2.86	2	2	0	2400	2400	0
6/16/2024 22:38	10102	ALLE_T2	1	1	0	7.4	7	-0.4	0	0	0	0	0	0	0	0
6/16/2024 22:38	52002	LING_T2	0	0	0	0	0	0	0.27	0.22	0	0	0	0	0	0
6/16/2024 22:38	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/16/2024 22:38	47001	HUGH_T2	1	12	11	0.1	0.19	0.09	-1.74	-1.77	1	1	0	900	900	0
6/16/2024 22:39	51002	NHAR_T1	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:39	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:39	51003	NHAR_T1	60	67	7	0.18	0.2	0.02	0	0	0	0	0	0	0	0
6/16/2024 22:39	51004	NHAR_T1	3	5	2	2	1.34	-0.66	-1.86	-1.88	0	0	0	0	0	0
6/16/2024 22:39	17401	FOHI_T1	0	0	0	0	0	0	-1.75	-1.76	0	0	0	0	0	0
6/16/2024 22:39	48302	ORWI_T2	2	2	0	0.3	0.3	0	0.04	0.03	0	0	0	0	0	0
6/16/2024 22:39	16102	BING_T2	13	0	-13	0.32	0	-0.32	0.51	0.49	0	0	0	0	0	0
6/16/2024 22:39	12301	LANA_T2	0	0	0	0	0	0	-1.2	-1.03	1	1	0	1200	1200	0
6/16/2024 22:39	11507	FREE_T2	0	0	0	0	0	0	0.89	0.92	0	0	0	0	0	0
6/16/2024 22:40	40502	CRES_T2	0	2	2	0	0.1	0.1	-0.84	-0.87	0	0	0	0	0	0
6/16/2024 22:40	10801	CHHI_T1	0	0	0	0	0	0	-1.74	-1.77	3	3	0	2100	2100	0
6/16/2024 22:40	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:40	29402	BELT_T1	1	1	0	9	9.4	0.4	0	0	0	0	0	0	0	0
6/16/2024 22:40	53902	HALI_T2	1	1	0	5.5	5.7	0.2	-0.82	-0.84	0	0	0	0	0	0
6/16/2024 22:40	53901	HALI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/16/2024 22:40	13303	ORVI_T1	0	0	0	0	0	0	0.86	0.84	0	0	0	0	0	0
6/16/2024 22:40	53903	HALI_T2	2	2	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:40	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/16/2024 22:40	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:41	53902	HALI_T2	1	1	0	5.5	5.7	0.2	-0.82	-0.84	0	0	0	0	0	0
6/16/2024 22:41	24603	VARD_T2	8	12	4	0.18	0.31	0.13	0	0	0	0	0	0	0	0
6/16/2024 22:41	56501	ROCK_T2	1	6	5	9.4	1.45	-7.95	-1	-1.02	0	0	0	0	0	0
6/16/2024 22:41	16302	ALPA_T2	0	0	0	0	0	0	0.79	0.77	0	0	0	0	0	0
6/16/2024 22:41	57103	SPHI_T2	0	0	0	0	0	0	-0.66	-0.69	1	1	0	600	600	0
6/16/2024 22:41	53903	HALI_T2	2	2	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:41	47101	MARI_T1	0	0	0	0	0	0	-0.64	-0.12	0	0	0	0	0	0
6/16/2024 22:41	56801	BENV_T1	8	7	-1	0.86	1.13	0.27	-0.52	-0.54	1	1	0	600	600	0
6/16/2024 22:41	44601	SALE_T2	1	1	0	0.5	0.7	0.2	-0.05	-0.05	0	0	0	0	0	0
6/16/2024 22:41	57101	SPHI_T2	6	6	0	1.12	1.3	0.18	0	0	0	0	0	0	0	0
6/16/2024 22:41	42903	MIDD_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
6/16/2024 22:41	53901	HALI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/16/2024 22:41	10805	CHHI_T2	1	1	0	7.3	7.5	0.2	-1.25	-1.26	1	1	0	600	600	0
6/16/2024 22:41	24602	VARD_T2	472	620	148	0.63	0.77	0.14	-1	-1	0	0	0	0	0	0
6/16/2024 22:41	57106	SPHI_T2	3	3	0	1.3	1.37	0.07	0	0	0	0	0	0	0	0
6/16/2024 22:41	57104	SPHI_T2	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
6/16/2024 22:42	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:42	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:42	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/16/2024 22:42	52002	LING_T2	0	0	0	0	0	0	0.27	0.22	0	0	0	0	0	0
6/16/2024 22:42	40602	PIGR_T1	1	1	0	0.9	0.2	-0.7	-0.01	-0.01	1	1	0	600	600	0
6/16/2024 22:42	46504	LOHA_T1	2	12	10	1	0.38	-0.62	0	0	0	0	0	0	0	0
6/16/2024 22:42	65503	MOJO_T2	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
6/16/2024 22:42	56801	BENV_T1	8	7	-1	0.86	1.13	0.27	-0.52	-0.54	1	1	0	600	600	0
6/16/2024 22:42	46203	DANV_T2	0	0	0	0	0	0	-1.82	-1.84	0	0	0	0	0	0
6/16/2024 22:42	67603	WARW_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
6/16/2024 22:42	29402	BELT_T1	1	1	0	9	9.4	0.4	0	0	0	0	0	0	0	0
6/16/2024 22:42	56501	ROCK_T2	1	6	5	9.4	1.45	-7.95	-1	-1.02	0	0	0	0	0	0
6/16/2024 22:42	67605	WARW_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
6/16/2024 22:42	46506	LOHA_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
6/16/2024 22:42	55002	NEWP_T1	4	6	2	0.65	0.7	0.05	-0.25	-0.26	0	0	0	0	0	0
6/16/2024 22:42	52004	LING_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
6/16/2024 22:42	46501	LOHA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/16/2024 22:42	67602	WARW_T2	0	0	0	0	0	0	0.83	0.79	0	0	0	0	0	0
6/16/2024 22:42	16302	ALPA_T2	0	0	0	0	0	0	0.79	0.77	0	0	0	0	0	0
6/16/2024 22:42	42701	AUGU_T1	80	73	-7	1.17	0.77	-0.4	0	0	0	0	0	0	0	0
6/16/2024 22:43	46902	MNTG_T2	2	8	6	0.15	0.18	0.03	0	0	0	0	0	0	0	0
6/16/2024 22:43	63401	HONY_T1	0	0	0	0	0	0	0.4	0.47	0	0	0	0	0	0
6/16/2024 22:43	16302	ALPA_T2	0	0	0	0	0	0	0.79	0.77	0	0	0	0	0	0
6/16/2024 22:43	46602	LACR_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
6/16/2024 22:43	46203	DANV_T2	0	0	0	0	0	0	-1.82	-1.84	0	0	0	0	0	0
6/16/2024 22:43	10805	CHHI_T2	1	1	0	7.3	7.5	0.2	-1.25	-1.26	1	1	0	600	600	0
6/16/2024 22:43	46902	MNTG_T2	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
6/16/2024 22:43	55002	NEWP_T1	4	6	2	0.65	0.7	0.05	0	0	0	0	0	0	0	0
6/16/2024 22:43	63404	HONY_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:43	10801	CHHI_T1	0	0	0	0	0	0	-1.74	-1.77	3	3	0	2100	2100	0
6/16/2024 22:43	56801	BENV_T1	8	7	-1	0.86	1.13	0.27	-0.52	-0.54	1	1	0	600	600	0
6/16/2024 22:43	46903	MNTG_T2	36	85	49	0.19	0.31	0.12	0.06	0.05	1	1	0	600	600	0
6/16/2024 22:43	42701	AUGU_T1	80	73	-7	1.17	0.77	-0.4	0	0	0	0	0	0	0	0
6/16/2024 22:43	53302	GRAT_T2	85	77	-8	0.89	0.91	0.02	0	0	0	0	0	0	0	0
6/16/2024 22:43	55001	NEWP_T1	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
6/16/2024 22:44	53902	HALI_T2	1	1	0	5.5	5.7	0.2	-1.65	-1.68	0	0	0	0	0	0
6/16/2024 22:44	67602	WARW_T2	0	0	0	0	0	0	0.83	0.79	0	0	0	0	0	0
6/16/2024 22:44	58402	MORO_T1	0	0	0	0	0	0	-0.24	-0.26	2	2	0	1500	1500	0
6/16/2024 22:44	57106	SPHI_T2	3	3	0	1.3	1.37	0.07	0	0	0	0	0	0	0	0
6/16/2024 22:44	12803	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:44	53501	EVIL_T2	2	2	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
6/16/2024 22:44	45502	DERR_T2	0	1	1	0	0.2	0.2	-0.56	-0.57	0	0	0	0	0	0
6/16/2024 22:44	42701	AUGU_T1	80	73	-7	1.17	0.77	-0.4	0	0	0	0	0	0	0	0
6/16/2024 22:44	52004	LING_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
6/16/2024 22:44	57104	SPHI_T2	1	1	0	1.1	0.9	-0.2	-1.6	-1.62	1	1	0	900	900	0
6/16/2024 22:44	60803	BUCK_T1	11	14	3	0.22	0.22	0	-1.07	-1.08	1	1	0	600	600	0
6/16/2024 22:44	66504	SMAN_T2	0	0	0	0	0	0	-1.33	-1.43	1	1	0	1200	1200	0
6/16/2024 22:44	53901	HALI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/16/2024 22:44	57101	SPHI_T2	6	6	0	1.12	1.3	0.18	0	0	0	0	0	0	0	0
6/16/2024 22:44	60801	BUCK_T1	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
6/16/2024 22:44	40502	CRES_T2	0	2	2	0	0.1	0.1	-0.84	-0.87	0	0	0	0	0	0
6/16/2024 22:44	56501	ROCK_T2	1	6	5	9.4	1.45	-7.95	-1	-1.02	0	0	0	0	0	0
6/16/2024 22:44	44601	SALE_T2	1	1	0	0.5	0.7	0.2	-0.05	-0.05	0	0	0	0	0	0
6/16/2024 22:44	12701	MACU_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	1200	1200	0
6/16/2024 22:44	10805	CHHI_T2	1	1	0	7.3	7.5	0.2	-1.25	-1.26	1	1	0	600	600	0
6/16/2024 22:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:44	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	-0.12	-0.14	0	0	0	0	0	0
6/16/2024 22:44	12801	MICK_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	600	600	0
6/16/2024 22:44	53502	EVIL_T2	0	0	0	0	0	0	0.31	0.29	1	1	0	600	600	0
6/16/2024 22:44	53903	HALI_T2	2	2	0	1.3	1.4	0.1	-0.15	-0.15	0	0	0	0	0	0
6/16/2024 22:45	25502	MADI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:45	43301	WATS_T2	1	2	1	1	1.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:45	24204	PROV_T3	1	1	0	6.1	5.8	-0.3	0	0	0	0	0	0	0	0
6/16/2024 22:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:45	21206	ECAR_T2	1	3	2	7.8	8.2	0.4	0.02	0.01	0	0	0	0	0	0
6/16/2024 22:45	21202	ECAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:45	66902	SHIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/16/2024 22:45	43304	WATS_T2	0	0	0	0	0	0	-1.24	-1.27	0	0	0	0	0	0
6/16/2024 22:45	66901	SHIL_T2	7	4	-3	0.1	0.1	0	0.01	-0.01	0	0	0	0	0	0
6/16/2024 22:45	42701	AUGU_T1	73	63	-10	1.11	0.7	-0.41	0	0	0	0	0	0	0	0
6/16/2024 22:45	63404	HONY_T1	1	27	26	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:45	47101	MARL_T1	0	0	0	0	0	0	-0.64	-0.12	0	0	0	0	0	0
6/16/2024 22:45	25503	MADI_T1	29	133	104	0.13	0.38	0.25	-0.84	-0.85	0	0	0	0	0	0
6/16/2024 22:45	63401	HONY_T1	0	0	0	0	0	0	0.4	0.47	0	0	0	0	0	0
6/16/2024 22:45	45502	DERR_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/16/2024 22:45	67605	WARW_T1	1	12	11	0.2	0.23	0.03	-1.13	-1.15	0	0	0	0	0	0
6/16/2024 22:45	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:45	24201	PROV_T3	1	1	0	6.5	6.5	0	-1.19	-1.2	1	1	0	1200	1200	0
6/16/2024 22:45	45501	DERR_T2	0	0	0	0	0	0	-1.48	-1.43	4	4	0	3600	3600	0
6/16/2024 22:45	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:46	42701	AUGU_T1	73	63	-10	1.11	0.7	-0.41	0	0	0	0	0	0	0	0
6/16/2024 22:46	41903	REED_T1	0	0	0	0	0	0	-0.32	-0.33	1	1	0	1200	1200	0
6/16/2024 22:46	15204	SFAR_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
6/16/2024 22:46	10903	COOP_T2	0	12	12	0	0.13	0.13	0	0	0	0	0	0	0	0
6/16/2024 22:46	43201	MVIL_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
6/16/2024 22:46	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:46	22002	BOHE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:46	47001	HUGH_T2	7	13	6	0.16	0.19	0.03	-1.74	-1.77	1	1	0	900	900	0
6/16/2024 22:46	44301	BEAV_T2	0	0	0	0	0	0	-0.73	-0.74	1	1	0	600	600	0
6/16/2024 22:46	47002	HUGH_T2	0	7	7	0	0.29	0.29	0	0	0	0	0	0	0	0
6/16/2024 22:46	24602	VARD_T2	503	645	142	0.67	0.77	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:46	44601	SALE_T2	1	1	0	0.5	0.7	0.2	-0.05	-0.05	0	0	0	0	0	0
6/16/2024 22:46	52403	GRPA_T2	0	2	2	0	0.5	0.5	-0.32	-0.33	0	0	0	0	0	0
6/16/2024 22:46	10901	COOP_T2	0	0	0	0	0	0	-0.4	-0.41	1	1	0	1200	1200	0
6/16/2024 22:46	40502	CRES_T2	0	5	5	0	0.12	0.12	-0.84	-0.87	0	0	0	0	0	0
6/16/2024 22:46	21203	ECAR_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
6/16/2024 22:46	24603	VARD_T2	8	12	4	0.19	0.31	0.12	-0.15	-0.16	0	0	0	0	0	0
6/16/2024 22:46	22003	BOHE_T1	23	25	2	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
6/16/2024 22:46	13503	MCMI_T2	59	77	18	0.26	0.22	-0.04	-0.87	-0.01	0	0	0	0	0	0
6/16/2024 22:46	52401	GRPA_T2	1	1	0	0.8	0.5	-0.3	0.49	-0.5	0	0	0	0	0	0
6/16/2024 22:46	22602	KIMB_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/16/2024 22:46	67103	SPRI_T1	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
6/16/2024 22:46	52402	GRPA_T2	0	1	1	0	0.4	0.4	-0.69	-0.68	0	0	0	0	0	0
6/16/2024 22:47	27004	BELL_T1	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/16/2024 22:47	58001	WCAR_T1	4	4	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
6/16/2024 22:47	22001	BOHE_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
6/16/2024 22:47	52402	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/16/2024 22:47	16301	ALPA_T1	1	2	1	0.4	0.3	-0.1	0.01	-0.02	0	0	0	0	0	0
6/16/2024 22:47	52401	GRPA_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/16/2024 22:47	56501	ROCK_T2	6	3	-3	1.45	2.77	1.32	-1	-1.02	0	0	0	0	0	0
6/16/2024 22:47	56801	BENV_T1	5	10	5	1.24	0.89	-0.35	-0.52	-0.54	1	1	0	600	600	0
6/16/2024 22:47	40602	PIGR_T1	1	1	0	0.5	0.2	-0.3	-0.01	-0.01	1	1	0	600	600	0
6/16/2024 22:47	27005	BELL_T1	0	0	0	0	0	0	-1.54	-1.56	0	0	0	0	0	0
6/16/2024 22:47	52404	GRPA_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
6/16/2024 22:47	22003	BOHE_T1	23	25	2	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
6/16/2024 22:47	24902	WHHA_T1	0	1	1	0	0.6	0.6	0.56	0.55	0	0	0	0	0	0
6/16/2024 22:47	46602	LACR_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
6/16/2024 22:47	22002	BOHE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:47	58003	WCAR_T1	1	1	0	1.5	1.7	0.2	0.82	0.81	0	0	0	0	0	0
6/16/2024 22:47	10805	CHHI_T2	1	1	0	7.5	7.4	-0.1	-1.25	-1.26	1	1	0	600	600	0
6/16/2024 22:47	46203	DANV_T2	0	0	0	0	0	0	-1.82	-1.84	0	0	0	0	0	0
6/16/2024 22:47	65401	MARI_T1	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
6/16/2024 22:47	42701	AUGU_T1	73	63	-10	1.11	0.7	-0.41	0	0	0	0	0	0	0	0
6/16/2024 22:47	51603	DUKE_T1	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
6/16/2024 22:47	16302	ALPA_T2	0	0	0	0	0	0	0.79	0.77	0	0	0	0	0	0
6/16/2024 22:47	52403	GRPA_T2	0	2	2	0	0.5	0.5	-0.32	-0.33	0	0	0	0	0	0
6/16/2024 22:47	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/16/2024 22:48	20403	ASHF_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
6/16/2024 22:48	46004	BERW_T2	0	0	0	0	0	0	-0.23	-0.32	0	0	0	0	0	0
6/16/2024 22:48	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
6/16/2024 22:48	46801	HEPB_T2	5	10	5	0.32	0.24	-0.08	1.62	1.59	0	0	0	0	0	0
6/16/2024 22:48	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:48	67603	WARW_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
6/16/2024 22:48	55002	NEWP_T1	5	6	1	0.66	0.9	0.24	-0.12	-0.13	0	0	0	0	0	0
6/16/2024 22:48	52002	LING_T2	0	0	0	0	0	0	0.27	0.22	0	0	0	0	0	0
6/16/2024 22:48	11804	FRAN_T1	0	0	0	0	0	0	0.74	0.71	0	0	0	0	0	0
6/16/2024 22:48	45502	DERR_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/16/2024 22:48	45501	DERR_T2	0	0	0	0	0	0	-0.74	-0.71	2	2	0	1800	1800	0
6/16/2024 22:48	61506	EPET_T2	0	0	0	0	0	0	-2.14	-2.13	2	2	0	1800	1800	0
6/16/2024 22:48	61501	EPET_T2	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
6/16/2024 22:48	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:48	46803	HEPB_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/16/2024 22:48	53903	HALI_T2	2	2	0	1.4	1.55	0.15	0	0	0	0	0	0	0	0
6/16/2024 22:48	42701	AUGU_T1	73	63	-10	1.11	0.7	-0.41	0	0	0	0	0	0	0	0
6/16/2024 22:48	64101	REFR_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
6/16/2024 22:48	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
6/16/2024 22:48	63401	HONY_T1	0	0	0	0	0	0	0.4	0.47	0	0	0	0	0	0
6/16/2024 22:48	24204	PROV_T3	1	1	0	6.1	5.8	-0.3	0	0	0	0	0	0	0	0
6/16/2024 22:48	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:48	67605	WARW_T1	1	12	11	0.2	0.23	0.03	0	0	0	0	0	0	0	0
6/16/2024 22:48	58006	WCAR_T2	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
6/16/2024 22:48	60801	BUCK_T1	0	15	15	0	0.13	0.13	-0.1	-0.1	0	0	0	0	0	0
6/16/2024 22:48	24201	PROV_T3	1	1	0	6.5	6.5	0	-1.19	-1.2	1	1	0	1200	1200	0
6/16/2024 22:48	53901	HALI_T2	1	1	0	0.4	0.7	0.3	-1.26	-1.27	0	0	0	0	0	0
6/16/2024 22:48	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:48	24902	WHHA_T1	0	1	1	0	0.6	0.6	0.56	0.55	0	0	0	0	0	0
6/16/2024 22:48	63404	HONY_T1	1	27	26	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:48	60803	BUCK_T1	9	15	6	0.14	0.35	0.21	0	0	0	0	0	0	0	0
6/16/2024 22:48	55001	NEWP_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
6/16/2024 22:49	58003	WCAR_T1	1	1	0	1.5	1.7	0.2	0.82	0.81	0	0	0	0	0	0
6/16/2024 22:49	40502	CRES_T2	0	5	5	0	0.12	0.12	-0.84	0.87	0	0	0	0	0	0
6/16/2024 22:49	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:49	56802	BENV_T2	0	0	0	0	0	0	-1.27	-1.3	0	0	0	0	0	0
6/16/2024 22:49	20603	GRWO_T2	8	8	0	0.14	0.11	-0.03	0.51	0.49	0	0	0	0	0	0
6/16/2024 22:49	64101	REFR_T1	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
6/16/2024 22:49	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:49	58001	WCAR_T1	4	4	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
6/16/2024 22:49	46803	HEPB_T2	1	1	0	0.2	0.2	0	0.56	0.56	0	0	0	0	0	0
6/16/2024 22:49	51603	DUKE_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
6/16/2024 22:49	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:49	20601	GRWO_T2	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
6/16/2024 22:49	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/16/2024 22:49	46504	LOHA_T1	2	12	10	1.4	0.38	-1.02	0	0	0	0	0	0	0	0
6/16/2024 22:49	46801	HEPB_T2	5	10	5	0.32	0.24	-0.08	1.62	1.59	0	0	0	0	0	0
6/16/2024 22:49	46506	LOHA_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
6/16/2024 22:49	56501	ROCK_T2	6	3	-3	1.45	2.77	1.32	-1	-1.02	0	0	0	0	0	0
6/16/2024 22:49	42701	AUGU_T1	73	63	-10	1.11	0.7	-0.41	0	0	0	0	0	0	0	0
6/16/2024 22:49	12701	MACU_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	1200	1200	0
6/16/2024 22:50	67605	WARW_T1	1	12	11	0.2	0.23	0.03	-1.13	-1.15	0	0	0	0	0	0
6/16/2024 22:50	46203	DANV_T2	0	0	0	0	0	0	-1.82	-1.84	0	0	0	0	0	0
6/16/2024 22:50	46001	BERW_T1	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
6/16/2024 22:50	14403	SSLA_T1	0	0	0	0	0	0	0.11	0.07	1	1	0	600	600	0
6/16/2024 22:50	66505	SMAN_T2	0	0	0	0	0	0	0.25	0.11	2	2	0	1500	1500	0
6/16/2024 22:50	40602	PIGR_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/16/2024 22:50	63401	HONY_T1	0	0	0	0	0	0	0.4	0.47	0	0	0	0	0	0
6/16/2024 22:50	43301	WATS_T2	1	2	1	1	1.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:50	64902	MILL_T2	0	0	0	0	0	0	-1.03	-1.05	1	1	0	900	900	0
6/16/2024 22:50	55002	NEWP_T1	5	6	1	0.66	0.9	0.24	0	0	0	0	0	0	0	0
6/16/2024 22:50	43304	WATS_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
6/16/2024 22:50	56801	BENV_T1	5	10	5	1.24	0.89	-0.35	-0.52	-0.54	1	1	0	600	600	0
6/16/2024 22:50	41902	REED_T1	0	0	0	0	0	0	0.97	0.96	0	0	0	0	0	0
6/16/2024 22:50	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
6/16/2024 22:50	14404	SSLA_T1	1	1	0	4.2	4	-0.2	0	0	0	0	0	0	0	0
6/16/2024 22:50	40603	PIGR_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/16/2024 22:50	63404	HONY_T1	1	27	26	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:50	43202	MVIL_T2	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
6/16/2024 22:50	58402	MORO_T1	0	0	0	0	0	0	-0.24	-0.26	2	2	0	1500	1500	0
6/16/2024 22:50	14204	EALL_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
6/16/2024 22:50	54701	NEBL_T1	1	1	0	1.6	1.7	0.1	0	0	1	1	0	600	600	0
6/16/2024 22:50	44301	BEAV_T2	0	0	0	0	0	0	-2.19	-2.21	3	3	0	1800	1800	0
6/16/2024 22:50	55001	NEWP_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
6/16/2024 22:51	53901	HALI_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/16/2024 22:51	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:51	13303	ORVI_T1	0	0	0	0	0	0	1.67	1.62	0	0	0	0	0	0
6/16/2024 22:51	64101	REFR_T1	0	0	0	0	0	0	0.18	0.37	0	0	0	0	0	0
6/16/2024 22:51	47101	MARL_T1	0	0	0	0	0	0	-0.64	-0.12	0	0	0	0	0	0
6/16/2024 22:51	49803	UNIV_T1	8	20	12	0.1	0.14	0.04	-1	-1.01	0	0	0	0	0	0
6/16/2024 22:51	43202	MVIL_T2	0	0	0	0	0	0	-1.38	-1.39	0	0	0	0	0	0
6/16/2024 22:51	10801	CHHI_T1	0	0	0	0	0	0	-1.77	-1.81	3	3	0	2100	2100	0
6/16/2024 22:51	12601	MACA_T1	0	0	0	0	0	0	0.92	0.94	0	0	0	0	0	0
6/16/2024 22:51	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:51	67605	WARW_T1	1	12	11	0.2	0.23	0.03	-1.15	-1.03	0	0	0	0	0	0
6/16/2024 22:51	54001	SDLE_T1	1	3	2	0.9	0.37	-0.53	0	0	1	1	0	600	600	0
6/16/2024 22:51	55101	WERT_T1	0	0	0	0	0	0	-4.59	-4.54	8	8	0	6000	6000	0
6/16/2024 22:51	40901	JESH_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/16/2024 22:51	40902	JESH_T1	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
6/16/2024 22:51	53902	HALI_T2	1	1	0	5.6	5.7	0.1	-0.82	-0.84	0	0	0	0	0	0
6/16/2024 22:51	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:51	46203	DANV_T2	0	0	0	0	0	0	-1.84	-1.86	0	0	0	0	0	0
6/16/2024 22:51	53903	HALI_T2	2	2	0	1.4	1.55	0.15	0	0	0	0	0	0	0	0
6/16/2024 22:52	67901	WNHO_T2	17	0	-17	0.14	0	-0.14	-0.66	-0.64	0	0	0	0	0	0
6/16/2024 22:52	58402	MORO_T1	0	0	0	0	0	0	-0.26	-0.28	2	2	0	1500	1500	0
6/16/2024 22:52	67203	TEHI_T1	0	0	0	0	0	0	1.28	1.32	1	1	0	600	600	0
6/16/2024 22:52	10705	CATA_T2	0	0	0	0	0	0	-0.59	-0.63	1	1	0	900	900	0
6/16/2024 22:52	53901	HALI_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/16/2024 22:52	67602	WARW_T2	0	0	0	0	0	0	0.79	0.74	0	0	0	0	0	0
6/16/2024 22:52	64101	REFR_T1	0	0	0	0	0	0	0.54	1.11	0	0	0	0	0	0
6/16/2024 22:52	55001	NEWP_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
6/16/2024 22:52	64201	KINZ_T1	1	35	34	1.2	0.29	-0.91	0	0	0	0	0	0	0	0
6/16/2024 22:52	12701	MACU_T1	0	0	0	0	0	0	-1.04	-1.05	1	1	0	1200	1200	0
6/16/2024 22:52	65901	SAKR_T2	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:52	46004	BERW_T2	0	0	0	0	0	0	-0.32	-0.23	0	0	0	0	0	0
6/16/2024 22:52	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:52	65902	SAKR_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
6/16/2024 22:52	64204	KINZ_T1	1	39	38	1.2	0.36	-0.84	0	0	0	0	0	0	0	0
6/16/2024 22:52	56501	ROCK_T2	6	3	-3	1.45	2.77	1.32	-1.02	-1.05	0	0	0	0	0	0
6/16/2024 22:52	62102	ELAN_T1	0	0	0	0	0	0	1.06	1	0	0	0	0	0	0
6/16/2024 22:52	65503	MOJO_T2	0	0	0	0	0	0	-0.12	-0.16	0	0	0	0	0	0
6/16/2024 22:52	20403	ASHF_T2	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
6/16/2024 22:52	41902	REED_T1	0	0	0	0	0	0	0.96	0.95	0	0	0	0	0	0
6/16/2024 22:52	64203	KINZ_T1	0	37	37	0	0.16	0.16	0.36	0.36	0	0	0	0	0	0
6/16/2024 22:52	61502	EPET_T1	0	0	0	0	0	0	-2.15	-0.84	0	0	0	0	0	0
6/16/2024 22:52	51603	DUKE_T1	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
6/16/2024 22:52	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:52	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:52	58401	MORO_T1	0	0	0	0	0	0	-2.78	-2.83	4	4	0	2400	2400	0
6/16/2024 22:52	60801	BUCK_T1	0	15	15	0	0.13	0.13	0	0	0	0	0	0	0	0
6/16/2024 22:52	40502	CRES_T2	0	5	5	0	0.12	0.12	-0.87	-0.9	0	0	0	0	0	0
6/16/2024 22:52	60803	BUCK_T1	9	15	6	0.14	0.35	0.21	-2.17	-2.19	2	2	0	1200	1200	0
6/16/2024 22:52	47101	MARL_T1	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
6/16/2024 22:52	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:52	53903	HALI_T2	2	2	0	1.4	1.55	0.15	-0.15	-0.15	0	0	0	0	0	0
6/16/2024 22:52	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:52	55002	NEWP_T1	5	6	1	0.66	0.9	0.24	0	0	0	0	0	0	0	0
6/16/2024 22:52	52002	LING_T2	0	0	0	0	0	0	0.43	0.29	0	0	0	0	0	0
6/16/2024 22:52	64202	KINZ_T1	2	12	10	0.15	0.44	0.29	0	0	0	0	0	0	0	0
6/16/2024 22:53	55101	WERT_T1	0	0	0	0	0	0	-1.13	-1.15	2	2	0	1500	1500	0
6/16/2024 22:53	43304	WATS_T2	0	0	0	0	0	0	-0.63	-0.65	0	0	0	0	0	0
6/16/2024 22:53	43301	WATS_T2	1	2	1	1	1.1	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:53	60803	BUCK_T1	9	15	6	0.14	0.35	0.21	0	0	0	0	0	0	0	0
6/16/2024 22:53	55002	NEWP_T1	5	6	1	0.66	0.9	0.24	-0.13	-0.14	0	0	0	0	0	0
6/16/2024 22:53	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/16/2024 22:53	29402	BELT_T1	1	1	0	9.4	6.9	-2.5	0	0	0	0	0	0	0	0
6/16/2024 22:53	64101	REFR_T1	0	0	0	0	0	0	0.36	0.74	0	0	0	0	0	0
6/16/2024 22:53	42701	AUGU_T1	73	63	-10	1.11	0.7	-0.41	0	0	0	0	0	0	0	0
6/16/2024 22:53	60801	BUCK_T1	0	15	15	0	0.13	0.13	-0.1	-0.11	0	0	0	0	0	0
6/16/2024 22:53	44301	BEAV_T2	0	0	0	0	0	0	-0.74	-0.74	1	1	0	600	600	0
6/16/2024 22:53	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:53	58401	MORO_T1	0	0	0	0	0	0	-1.39	-1.42	2	2	0	1200	1200	0
6/16/2024 22:53	67605	WARW_T1	1	12	11	0.2	0.23	0.03	-1.15	-1.03	0	0	0	0	0	0
6/16/2024 22:54	56501	ROCK_T2	6	3	-3	1.45	2.77	1.32	-1.02	-1.05	0	0	0	0	0	0
6/16/2024 22:54	67605	WARW_T1	1	12	11	0.2	0.23	0.03	-1.15	-1.03	0	0	0	0	0	0
6/16/2024 22:54	53901	HALI_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/16/2024 22:54	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/16/2024 22:54	63801	HEMP_T1	0	0	0	0	0	0	-0.85	-1.01	1	1	0	900	900	0
6/16/2024 22:54	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/16/2024 22:54	44301	BEAV_T2	0	0	0	0	0	0	-0.74	-0.74	1	1	0	600	600	0
6/16/2024 22:54	63804	HEMP_T1	1	1	0	6	5.6	-0.4	0	0	0	0	0	0	0	0
6/16/2024 22:54	46902	MNTG_T2	2	7	5	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
6/16/2024 22:54	56801	BENV_T1	5	10	5	1.24	0.89	-0.35	-1.61	-1.65	3	3	0	1800	1800	0
6/16/2024 22:54	53903	HALI_T2	2	2	0	1.4	1.55	0.15	-0.15	-0.15	0	0	0	0	0	0
6/16/2024 22:54	46903	MNTG_T2	58	83	25	0.23	0.31	0.08	0	0	0	0	0	0	0	0
6/16/2024 22:54	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
6/16/2024 22:54	40602	PIGR_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/16/2024 22:54	46901	MNTG_T2	4	7	3	0.15	0.19	0.04	0.24	0.18	0	0	0	0	0	0
6/16/2024 22:54	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
6/16/2024 22:55	57103	SPHI_T2	0	0	0	0	0	0	-0.69	-0.72	1	1	0	600	600	0
6/16/2024 22:55	52002	LING_T2	0	0	0	0	0	0	0.22	0.14	0	0	0	0	0	0
6/16/2024 22:55	47101	MARL_T1	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
6/16/2024 22:55	52401	GRPA_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/16/2024 22:55	67201	TEHI_T1	0	0	0	0	0	0	-0.64	-0.65	1	1	0	900	900	0
6/16/2024 22:55	52402	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/16/2024 22:55	52403	GRPA_T2	0	2	2	0	0.5	0.5	-0.33	-0.34	0	0	0	0	0	0
6/16/2024 22:55	57106	SPHI_T2	3	3	0	1.2	1.37	0.17	0	0	0	0	0	0	0	0
6/16/2024 22:55	57101	SPHI_T2	6	6	0	1.3	0.83	-0.47	0	0	0	0	0	0	0	0
6/16/2024 22:55	64101	REFR_T1	0	0	0	0	0	0	0.18	0.37	0	0	0	0	0	0
6/16/2024 22:55	57104	SPHI_T2	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
6/16/2024 22:55	61701	ELIZ_T1	1	1	0	4.2	3.7	-0.5	-0.01	-0.03	0	0	0	0	0	0
6/16/2024 22:55	67605	WARW_T1	1	12	11	0.2	0.23	0.03	-1.15	-1.03	0	0	0	0	0	0
6/16/2024 22:56	52402	GRPA_T2	0	1	1	0	0.4	0.4	-0.68	-0.67	0	0	0	0	0	0
6/16/2024 22:56	56801	BENV_T1	5	10	5	1.24	0.89	-0.35	-0.54	-0.55	1	1	0	600	600	0
6/16/2024 22:56	67605	WARW_T1	1	12	11	0.2	0.23	0.03	-1.15	-1.03	0	0	0	0	0	0
6/16/2024 22:56	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
6/16/2024 22:56	52401	GRPA_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/16/2024 22:56	58401	MORO_T1	0	0	0	0	0	0	-1.39	-1.42	2	2	0	1200	1200	0
6/16/2024 22:56	55101	WERT_T1	0	0	0	0	0	0	-1.13	-1.15	2	2	0	1500	1500	0
6/16/2024 22:56	52403	GRPA_T2	0	2	2	0	0.5	0.5	-0.33	-0.34	0	0	0	0	0	0
6/16/2024 22:57	64101	REFR_T1	0	0	0	0	0	0	0.18	0.37	0	0	0	0	0	0
6/16/2024 22:57	52002	LING_T2	0	0	0	0	0	0	0.22	0.14	0	0	0	0	0	0
6/16/2024 22:57	58401	MORO_T1	0	0	0	0	0	0	-1.39	-1.42	2	2	0	1200	1200	0
6/16/2024 22:58	65004	NEFF_T2	0	0	0	0	0	0	-0.71	-0.74	1	1	0	600	600	0
6/16/2024 22:58	52401	GRPA_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/16/2024 22:58	56801	BENV_T1	5	10	5	1.24	0.89	-0.35	-0.54	-0.55	1	1	0	600	600	0
6/16/2024 22:58	65003	NEFF_T2	4	42	38	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
6/16/2024 22:58	63304	GREE_T1	0	0	0	0	0	0	-1.41	-1.44	0	0	0	0	0	0
6/16/2024 22:58	65001	NEFF_T2	3	103	100	0.1	0.18	0.08	0	0	0	0	0	0	0	0
6/16/2024 22:58	67901	WNHO_T2	17	0	-17	0.14	0	-0.14	-0.66	-0.64	0	0	0	0	0	0
6/16/2024 22:58	52402	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/16/2024 22:58	52403	GRPA_T2	0	2	2	0	0.5	0.5	-0.33	-0.34	0	0	0	0	0	0
6/16/2024 22:59	64101	REFR_T1	0	0	0	0	0	0	0.18	0.37	0	0	0	0	0	0
6/16/2024 23:04	54001	SDLE_T1	1	4	3	0.8	0.35	-0.45	0	0	1	1	0	600	600	0
6/16/2024 23:28	65205	PRIN_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
6/16/2024 23:35	11805	FRAN_T1	0	0	0	0	0	0	-1.21	-1.18	1	1	0	1200	1200	0
6/17/2024 0:03	60801	BUCK_T1	18	28	10	0.14	0.17	0.03	0	0	0	0	0	0	0	0
6/17/2024 0:03	60803	BUCK_T1	5	4	-1	0.1	0.1	0	-0.46	-0.46	1	1	0	600	600	0
6/17/2024 0:07	66505	SMAN_T2	0	0	0	0	0	0	0.36	0.37	1	1	0	900	900	0
6/17/2024 0:40	29402	BELT_T1	1	1	0	6.8	7	0.2	0	0	0	0	0	0	0	0
6/17/2024 1:59	65901	SAKR_T2	1	1	0	8.4	8.7	0.3	-1.25	-1.27	1	1	0	900	900	0
6/17/2024 5:04	65603	QVIL_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
6/17/2024 6:11	53501	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 6:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/17/2024 6:11	53502	EVIL_T2	0	0	0	0	0	0	0.11	0.16	2	2	0	1200	1200	0
6/17/2024 6:11	29402	BELT_T1	1	1	0	7.2	7.3	0.1	0	0	0	0	0	0	0	0
6/17/2024 6:40	20401	ASHF_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
6/17/2024 6:40	20403	ASHF_T2	0	0	0	0	0	0	0.1	0.18	0	0	0	0	0	0
6/17/2024 6:45	46803	HEPB_T2	9	6	-3	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
6/17/2024 6:45	46801	HEPB_T2	21	12	-9	0.23	0.27	0.04	0.62	0.63	0	0	0	0	0	0
6/17/2024 6:47	13501	MCMI_T1	0	1	1	0	0	0	0.05	0.05	0	0	0	0	0	0
6/17/2024 6:48	60501	NMAN_T2	3	3	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
6/17/2024 6:48	15203	SFAR_T2	0	45	45	0	0.12	0.12	-1.2	-1.17	0	0	0	0	0	0
6/17/2024 6:48	60502	NMAN_T2	0	0	0	0	0	0	-0.11	-0.07	0	0	0	0	0	0
6/17/2024 6:55	20401	ASHF_T2	2	2	0	0.65	0.35	-0.3	0	0	0	0	0	0	0	0
6/17/2024 6:55	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.27	0	0	0	0	0	0
6/17/2024 6:56	56802	BENV_T2	0	1	1	0	0.5	0.5	-1.31	-1.29	0	0	0	0	0	0
6/17/2024 6:56	22001	BOHE_T1	111	165	54	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
6/17/2024 6:56	22002	BOHE_T1	3	4	1	0.23	0.3	0.07	0.35	0.29	0	0	0	0	0	0
6/17/2024 6:56	46206	DANV_T2	5	24	19	0.64	0.7	0.06	2.81	2.8	1	1	0	1200	1200	0
6/17/2024 6:56	22003	BOHE_T1	70	110	40	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
6/17/2024 7:04	67002	STHI_T2	0	0	0	0	0	0	0.74	0.76	0	0	0	0	0	0
6/17/2024 7:04	67001	STHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/17/2024 7:05	67002	STHI_T2	0	0	0	0	0	0	0.74	0.76	0	0	0	0	0	0
6/17/2024 7:05	67001	STHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/17/2024 7:08	67001	STHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/17/2024 7:08	67002	STHI_T2	0	0	0	0	0	0	0.76	0.78	0	0	0	0	0	0
6/17/2024 7:11	22002	BOHE_T1	1	7	6	0.3	0.22	-0.08	0.29	0.3	0	0	0	0	0	0
6/17/2024 7:11	22003	BOHE_T1	29	146	117	0.25	0.26	0.01	0	0	0	0	0	0	0	0
6/17/2024 7:11	22001	BOHE_T1	1	70	69	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/17/2024 7:13	61802	EELI_T2	8	1	-7	0.28	0	-0.28	0	0	0	0	0	0	0	0
6/17/2024 7:13	61801	EELI_T2	0	0	0	0	0	0	-0.42	-0.36	1	1	0	600	600	0
6/17/2024 7:14	62607	ENGL_T1	0	1	1	0	0	0	-0.88	-0.86	1	1	0	300	300	0
6/17/2024 7:18	64904	MILL_T1	0	1	1	0	0	0	-0.56	-0.54	0	0	0	0	0	0
6/17/2024 7:18	59003	MIFF_T1	0	1	1	0	0.1	0.1	-0.17	-0.84	0	0	0	0	0	0
6/17/2024 7:20	15703	TANN_T2	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0	0
6/17/2024 7:20	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
6/17/2024 7:21	60301	TWVA_T2	0	0	0	0	0	0	-4.32	-4.32	3	3	0	2700	2700	0
6/17/2024 7:22	15702	TANN_T2	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
6/17/2024 7:22	15703	TANN_T2	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0	0
6/17/2024 7:23	45501	DERR_T2	0	0	0	0	0	0	0.69	0.68	2	2	0	1800	1800	0
6/17/2024 7:25	29402	BELT_T1	1	1	0	8.1	8.4	0.3	0	0	0	0	0	0	0	0
6/17/2024 7:25	29401	BELT_T1	0	6	6	0	0.1	0.1	0	0	1	1	0	900	900	0
6/17/2024 7:26	45501	DERR_T2	0	0	0	0	0	0	0.69	0.68	2	2	0	1800	1800	0
6/17/2024 7:27	54505	ENOL_T2	1	1	0	0.1	0.1	0	-1.22	-1.2	1	1	0	600	600	0
6/17/2024 7:28	46803	HEPB_T2	2	0	-2	0.1	0	-0.1	0.36	0.36	0	0	0	0	0	0
6/17/2024 7:28	46801	HEPB_T2	3	2	-1	0.53	0.55	0.02	0	0	0	0	0	0	0	0
6/17/2024 7:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 7:30	54505	ENOL_T2	0	1	1	0	0.2	0.2	-1.22	-1.2	1	1	0	600	600	0
6/17/2024 7:31	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 7:32	50501	MECH_T1	4	4	0	1.05	0.88	-0.17	0	0	0	0	0	0	0	0
6/17/2024 7:32	50505	MECH_T1	0	0	0	0	0	0	-1.92	-1.98	0	0	0	0	0	0
6/17/2024 7:32	50502	MECH_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
6/17/2024 7:33	22002	BOHE_T1	6	2	-4	0.22	0.25	0.03	0	0	0	0	0	0	0	0
6/17/2024 7:33	22003	BOHE_T1	138	64	-74	0.27	0.28	0.01	0	0	0	0	0	0	0	0
6/17/2024 7:33	22001	BOHE_T1	68	10	-58	0.14	0.12	-0.02	0.28	0.28	0	0	0	0	0	0
6/17/2024 7:33	58401	MORO_T1	0	1	1	0	0	0	-2.69	-2.62	4	4	0	2400	2400	0
6/17/2024 7:34	43202	MVIL_T2	1	1	0	0.1	0.2	0.1	-0.57	-0.55	0	0	0	0	0	0
6/17/2024 7:36	12601	MACA_T1	0	0	0	0	0	0	0.84	0.85	0	0	0	0	0	0
6/17/2024 7:41	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/17/2024 7:42	40802	EXCH_T2	0	0	0	0	0	0	-0.18	-0.23	0	0	0	0	0	0
6/17/2024 7:42	40801	EXCH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/17/2024 7:43	40801	EXCH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/17/2024 7:43	40802	EXCH_T2	0	0	0	0	0	0	-0.18	-0.23	0	0	0	0	0	0
6/17/2024 7:44	40802	EXCH_T2	0	0	0	0	0	0	-0.18	-0.23	0	0	0	0	0	0
6/17/2024 7:44	41501	FAIR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 7:44	41502	FAIR_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
6/17/2024 7:44	40801	EXCH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/17/2024 7:44	63305	GREE_T1	0	0	0	0	0	0	-1.83	-1.85	1	1	0	900	900	0
6/17/2024 7:46	40101	HUNT_T2	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
6/17/2024 7:46	21203	ECAR_T1	0	0	0	0	0	0	0.81	0.83	0	0	0	0	0	0
6/17/2024 7:47	63305	GREE_T1	0	0	0	0	0	0	-1.83	-1.85	1	1	0	900	900	0
6/17/2024 7:49	56501	ROCK_T2	2	4	2	3.25	2.15	-1.1	-1.15	-1.14	0	0	0	0	0	0
6/17/2024 7:51	56501	ROCK_T2	2	4	2	3.25	2.15	-1.1	-2.31	-2.27	0	0	0	0	0	0
6/17/2024 7:52	60305	TWVA_T2	0	0	0	0	0	0	-0.09	0.01	2	2	0	2400	2400	0
6/17/2024 7:53	20403	ASHF_T2	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
6/17/2024 7:53	67605	WARW_T1	18	14	-4	0.56	0.46	-0.1	0	0	0	0	0	0	0	0
6/17/2024 7:53	20401	ASHF_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/17/2024 7:53	67604	WARW_T1	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
6/17/2024 7:58	56601	HAMP_T1	0	0	0	0	0	0	-1.56	-1.44	0	0	0	0	0	0
6/17/2024 7:59	62607	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/17/2024 7:59	62601	ENGL_T1	0	0	0	0	0	0	-1.1	-1.07	0	0	0	0	0	0
6/17/2024 7:59	56601	HAMP_T1	0	0	0	0	0	0	-1.56	-1.44	0	0	0	0	0	0
6/17/2024 7:59	45801	HEGI_T1	0	0	0	0	0	0	0.22	0.22	1	1	0	900	900	0
6/17/2024 8:07	67505	WEWI_T1	1	0	-1	0.6	0	-0.6	0.18	0.38	1	1	0	900	900	0
6/17/2024 8:08	15203	SFAR_T2	0	0	0	0	0	0	-2.04	-1.98	0	0	0	0	0	0
6/17/2024 8:10	41502	FAIR_T2	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
6/17/2024 8:15	22002	BOHE_T1	2	3	1	0.25	0.43	0.18	0	0	0	0	0	0	0	0
6/17/2024 8:15	22003	BOHE_T1	59	67	8	0.25	0.35	0.1	0	0	0	0	0	0	0	0
6/17/2024 8:15	22001	BOHE_T1	4	8	4	0.15	0.16	0.01	0.29	0.29	0	0	0	0	0	0
6/17/2024 8:20	58001	WCAR_T1	4	5	1	1.6	1.2	-0.4	0	0	0	0	0	0	0	0
6/17/2024 8:20	58003	WCAR_T1	4	7	3	0.53	0.4	-0.13	1.02	1.07	0	0	0	0	0	0
6/17/2024 8:23	58006	WCAR_T2	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
6/17/2024 8:25	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/17/2024 8:26	53501	EVIL_T2	1	2	1	0.5	0.45	-0.05	0.11	-0.89	2	3	1	1200	2100	900
6/17/2024 8:26	53502	EVIL_T2	1	3	2	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
6/17/2024 8:27	53501	EVIL_T2	1	2	1	0.5	0.45	-0.05	0.11	-0.89	2	3	1	1200	2100	900
6/17/2024 8:27	53502	EVIL_T2	1	3	2	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
6/17/2024 8:29	43704	WILL_T1	1	0	-1	1.5	0.7	-0.8	0	0	0	0	0	0	0	0
6/17/2024 8:29	43701	WILL_T1	1	0	-1	0.1	0	-0.1	-1.09	-0.28	0	0	0	0	0	0
6/17/2024 8:29	53501	EVIL_T2	1	2	1	0.5	0.45	-0.05	0.11	-0.89	2	3	1	1200	2100	900
6/17/2024 8:29	43705	WILL_T1	2	2	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/17/2024 8:29	53502	EVIL_T2	1	3	2	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
6/17/2024 8:33	46506	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/17/2024 8:33	46502	LOHA_T1	0	0	0	0	0	0	-1.21	0.14	2	1	-1	2400	1200	-1200
6/17/2024 8:33	46504	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 8:34	14802	TREI_T2	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
6/17/2024 8:37	56802	BENV_T2	1	7	6	0.8	0.33	-0.47	-0.44	-1.09	0	0	0	0	0	0
6/17/2024 8:38	56801	BENV_T1	14	19	5	0.74	0.59	-0.15	0	0	0	0	0	0	0	0
6/17/2024 8:38	56803	BENV_T1	0	1	1	0	1	1	0.68	0.65	0	0	0	0	0	0
6/17/2024 8:38	56802	BENV_T2	1	7	6	0.8	0.33	-0.47	-0.44	-1.09	0	0	0	0	0	0
6/17/2024 8:40	56803	BENV_T1	0	1	1	0	1	1	1.37	1.3	0	0	0	0	0	0
6/17/2024 8:40	56802	BENV_T2	1	7	6	0.8	0.33	-0.47	-0.44	-1.09	0	0	0	0	0	0
6/17/2024 8:40	56801	BENV_T1	14	19	5	0.74	0.59	-0.15	0	0	0	0	0	0	0	0
6/17/2024 8:41	10805	OHHI_T2	1	1	0	9.1	9.1	0	-0.54	-0.46	1	1	0	600	600	0
6/17/2024 8:41	56802	BENV_T2	1	7	6	0.8	0.33	-0.47	-1.32	-3.26	0	0	0	0	0	0
6/17/2024 8:42	56803	BENV_T1	0	1	1	0	1	1	0.68	0.65	0	0	0	0	0	0
6/17/2024 8:42	56801	BENV_T1	14	19	5	0.74	0.59	-0.15	0	0	0	0	0	0	0	0
6/17/2024 8:42	56802	BENV_T2	1	7	6	0.8	0.33	-0.47	-0.88	-2.17	0	0	0	0	0	0
6/17/2024 8:44	46801	HEPB_T2	2	3	1	0.65	0.57	-0.08	0	0	0	0	0	0	0	0
6/17/2024 8:44	46803	HEPB_T2	0	2	2	0	0.15	0.15	0.37	0.38	0	0	0	0	0	0
6/17/2024 8:51	14403	SSLA_T1	0	0	0	0	0	0	2.15	2.24	0	0	0	0	0	0
6/17/2024 8:51	14404	SSLA_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
6/17/2024 8:53	67803	WLAN_T1	0	0	0	0	0	0	-0.66	-0.63	0	0	0	0	0	0
6/17/2024 8:54	67805	WLAN_T1	0	0	0	0	0	0	-0.6	-0.65	0	0	0	0	0	0
6/17/2024 8:54	14801	TREI_T2	0	0	0	0	0	0	0.62	0.66	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/17/2024 8:57	22003	BOHE_T1	61	65	4	0.33	0.35	0.02	0	0	0	0	0	0	0	0
6/17/2024 8:57	22002	BOHE_T1	2	2	0	0.25	0.65	0.4	0.43	0.44	0	0	0	0	0	0
6/17/2024 8:57	22001	BOHE_T1	5	4	-1	0.18	0.23	0.05	0	0	0	0	0	0	0	0
6/17/2024 8:57	41502	FAIR_T2	0	0	0	0	0	0	-0.54	-0.42	0	0	0	0	0	0
6/17/2024 8:58	52004	LING_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
6/17/2024 8:58	20601	GRWO_T2	4	1	-3	0.33	0	-0.33	1.09	0.23	0	0	0	0	0	0
6/17/2024 8:59	58003	WCAR_T1	3	13	10	0.57	0.37	-0.2	0	0	0	0	0	0	0	0
6/17/2024 8:59	58001	WCAR_T1	4	5	1	1.43	1.26	-0.17	0.02	0.04	0	0	0	0	0	0
6/17/2024 9:02	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 9:02	40602	PIGR_T1	1	2	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/17/2024 9:05	67605	WARW_T1	2	1	-1	0.35	0.1	-0.25	-0.82	-0.79	0	0	0	0	0	0
6/17/2024 9:06	67605	WARW_T1	2	1	-1	0.35	0.1	-0.25	-0.82	-0.79	0	0	0	0	0	0
6/17/2024 9:07	50701	SMEC_T1	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
6/17/2024 9:08	67605	WARW_T1	2	1	-1	0.35	0.1	-0.25	-1.58	-1.46	0	0	0	0	0	0
6/17/2024 9:17	48302	ORWI_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
6/17/2024 9:18	64101	REFR_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
6/17/2024 9:19	41902	REED_T1	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
6/17/2024 9:19	64101	REFR_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
6/17/2024 9:19	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 9:20	66504	SMAN_T2	0	0	0	0	0	0	0.7	-1.72	0	2	2	0	2400	2400
6/17/2024 9:20	17002	RIRO_T2	1	1	0	0.4	1.2	0.8	0.85	0.95	0	0	0	0	0	0
6/17/2024 9:20	64101	REFR_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
6/17/2024 9:20	41902	REED_T1	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
6/17/2024 9:20	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 9:21	64101	REFR_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
6/17/2024 9:21	46302	ROHR_T1	4	4	0	1.75	1.95	0.2	0.23	0.24	0	0	0	0	0	0
6/17/2024 9:21	46301	ROHR_T1	2	6	4	0.35	0.28	-0.07	0.29	0.3	0	0	0	0	0	0
6/17/2024 9:23	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 9:23	64101	REFR_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
6/17/2024 9:23	20403	ASHF_T2	0	0	0	0	0	0	0.63	0.7	0	0	0	0	0	0
6/17/2024 9:23	46301	ROHR_T1	2	6	4	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
6/17/2024 9:23	46302	ROHR_T1	4	4	0	1.75	1.95	0.2	0.23	0.24	0	0	0	0	0	0
6/17/2024 9:23	20401	ASHF_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/17/2024 9:23	66504	SMAN_T2	0	0	0	0	0	0	-0.86	-0.92	1	1	0	1200	1200	0
6/17/2024 9:24	20403	ASHF_T2	0	0	0	0	0	0	0.63	0.7	0	0	0	0	0	0
6/17/2024 9:24	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 9:24	20401	ASHF_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/17/2024 9:26	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	900	900	0
6/17/2024 9:26	29402	BELT_T1	1	1	0	7.1	7.4	0.3	0	0	0	0	0	0	0	0
6/17/2024 9:26	10801	CHHI_T1	1	3	2	0.1	0.37	0.27	-0.86	-0.76	2	2	0	1500	1500	0
6/17/2024 9:32	47001	HUGH_T2	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
6/17/2024 9:33	26401	INOR_T1	2	2	0	3.6	3.35	-0.25	0.95	0.89	0	0	0	0	0	0
6/17/2024 9:33	46302	ROHR_T1	4	4	0	1.85	1.78	-0.07	0.23	0.24	0	0	0	0	0	0
6/17/2024 9:33	46301	ROHR_T1	4	5	1	0.33	0.36	0.03	0.29	0.3	0	0	0	0	0	0
6/17/2024 9:33	44601	SALE_T2	0	0	0	0	0	0	0.67	0.28	2	1	-1	900	600	-300
6/17/2024 9:34	47001	HUGH_T2	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
6/17/2024 9:34	54201	PENN_T1	4	3	-1	0.9	1.23	0.33	-0.49	-0.54	0	0	0	0	0	0
6/17/2024 9:34	54203	PENN_T1	18	14	-4	0.48	0.24	-0.24	0	0	0	0	0	0	0	0
6/17/2024 9:35	54201	PENN_T1	4	3	-1	0.9	1.23	0.33	-0.49	-0.54	0	0	0	0	0	0
6/17/2024 9:35	48302	ORWI_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
6/17/2024 9:35	54203	PENN_T1	18	14	-4	0.48	0.24	-0.24	0	0	0	0	0	0	0	0
6/17/2024 9:36	46301	ROHR_T1	4	5	1	0.33	0.36	0.03	0.3	0.31	0	0	0	0	0	0
6/17/2024 9:36	46302	ROHR_T1	4	4	0	1.85	1.78	-0.07	0.24	0.25	0	0	0	0	0	0
6/17/2024 9:37	44601	SALE_T2	0	0	0	0	0	0	0.28	0.36	1	1	0	600	600	0
6/17/2024 9:38	18001	ZION_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/17/2024 9:38	10801	CHHI_T1	3	4	1	0.37	0.83	0.46	-0.76	-1.39	2	3	1	1500	2100	600
6/17/2024 9:39	10805	CHHI_T2	1	3	2	9.2	4.75	-4.45	-0.49	-0.34	1	1	0	600	600	0
6/17/2024 9:40	43304	WATS_T2	0	0	0	0	0	0	-1.19	-1.15	0	0	0	0	0	0
6/17/2024 9:43	46206	DANV_T2	22	28	6	0.46	0.61	0.15	0	0	0	0	0	0	0	0
6/17/2024 9:43	46203	DANV_T2	0	0	0	0	0	0	-1.7	-1.66	0	0	0	0	0	0
6/17/2024 9:44	40101	HUNT_T2	4	10	6	0.33	0.26	-0.07	0	0.02	0	0	0	0	0	0
6/17/2024 9:44	46206	DANV_T2	22	28	6	0.46	0.61	0.15	0	0	0	0	0	0	0	0
6/17/2024 9:44	46203	DANV_T2	0	0	0	0	0	0	-1.7	-1.66	0	0	0	0	0	0
6/17/2024 9:48	67002	STHI_T2	0	0	0	0	0	0	0.99	1.02	0	0	0	0	0	0
6/17/2024 9:48	67001	STHI_T2	4	2	-2	0.2	0.25	0.05	0	0	0	0	0	0	0	0
6/17/2024 9:50	67002	STHI_T2	0	0	0	0	0	0	1.99	2.04	0	0	0	0	0	0
6/17/2024 9:50	67001	STHI_T2	4	2	-2	0.2	0.25	0.05	0	0	0	0	0	0	0	0
6/17/2024 9:54	67201	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 9:54	67203	TEHI_T1	1	2	1	0.3	0	-0.3	1.52	1.59	4	4	0	3000	3000	0
6/17/2024 9:55	10805	CHHI_T2	2	7	5	4.8	3.23	-1.57	-0.34	-0.25	1	1	0	600	600	0
6/17/2024 9:55	45702	LIND_T2	3	2	-1	0.33	0.55	0.22	-1.45	-1.42	0	0	0	0	0	0
6/17/2024 9:55	10801	CHHI_T1	2	6	4	0.25	0.68	0.43	-1.39	-1.52	3	3	0	2100	2100	0
6/17/2024 9:57	24901	WHHA_T1	1	2	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
6/17/2024 9:57	24902	WHHA_T1	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
6/17/2024 10:00	24204	PROV_T3	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
6/17/2024 10:00	41903	REED_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/17/2024 10:00	24701	FLND_T2	0	9	9	0	0	0	0.44	0.44	0	0	0	0	0	0
6/17/2024 10:00	58003	WCAR_T1	2	4	2	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
6/17/2024 10:00	17002	RIRO_T2	1	2	1	0.1	0.8	0.7	0.85	0.84	0	0	0	0	0	0
6/17/2024 10:00	67605	WARW_T1	1	1	0	0.2	1.2	1	-1.72	-1.67	0	0	0	0	0	0
6/17/2024 10:00	67605	WARW_T1	1	1	0	0.2	1.2	1	-1.72	-0.83	0	0	0	0	0	0
6/17/2024 10:00	67605	WARW_T1	1	1	0	0.2	1.2	1	-0.86	-1.67	0	0	0	0	0	0
6/17/2024 10:00	67605	WARW_T1	1	1	0	0.2	1.2	1	-0.86	-0.83	0	0	0	0	0	0
6/17/2024 10:00	67001	STHI_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
6/17/2024 10:00	11804	FRAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	-0.07	0.05	0	0	0	0	0	0
6/17/2024 10:00	41902	REED_T1	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
6/17/2024 10:00	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/17/2024 10:00	24201	PROV_T3	1	1	0	7.3	7.9	0.6	-1.04	-1.02	1	1	0	1200	1200	0
6/17/2024 10:00	40505	CRES_T1	3	3	0	3.07	2.9	-0.17	0.65	0.67	0	0	0	0	0	0
6/17/2024 10:00	67002	STHI_T2	0	0	0	0	0	0	1.02	1.05	0	0	0	0	0	0
6/17/2024 10:00	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 10:00	40602	PIGR_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 10:00	24702	FLND_T2	2	1	-1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
6/17/2024 10:00	40601	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/17/2024 10:00	56501	ROCK_T2	3	2	-1	0.3	0.3	0	-5.51	-5.31	0	0	0	0	0	0
6/17/2024 10:00	67502	WEWI_T2	0	1	1	0	0.2	0.2	-0.66	-0.6	1	1	0	900	900	0
6/17/2024 10:00	58001	WCAR_T1	4	5	1	0.95	0.5	-0.45	0.04	0.16	0	0	0	0	0	0
6/17/2024 10:00	66504	SMAN_T2	0	0	0	0	0	0	-0.8	-0.68	1	1	0	1200	1200	0
6/17/2024 10:00	11805	FRAN_T1	0	0	0	0	0	0	-0.49	-0.62	1	1	0	1200	1200	0
6/17/2024 10:00	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 10:02	24901	WHHA_T1	1	2	1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/17/2024 10:02	24902	WHHA_T1	0	1	1	0	0	0	0.73	0.75	0	0	0	0	0	0
6/17/2024 10:04	44902	SCOT_T2	0	0	0	0	0	0	-0.54	-0.6	0	0	0	0	0	0
6/17/2024 10:07	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 10:07	66504	SMAN_T2	0	0	0	0	0	0	-1.36	-1.4	2	2	0	2400	2400	0
6/17/2024 10:07	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/17/2024 10:07	29402	BELT_T1	1	1	0	6.7	7	0.3	0	0	0	0	0	0	0	0
6/17/2024 10:07	29401	BELT_T1	0	1	1	0	0.2	0.2	0	0	1	1	0	900	900	0
6/17/2024 10:08	58001	WCAR_T1	4	5	1	0.95	0.5	-0.45	0	0	0	0	0	0	0	0
6/17/2024 10:08	67605	WARW_T1	1	1	0	0.2	1.2	1	-0.83	-0.81	0	0	0	0	0	0
6/17/2024 10:08	29402	BELT_T1	1	1	0	6.7	7	0.3	0	0	0	0	0	0	0	0
6/17/2024 10:08	29401	BELT_T1	0	1	1	0	0.2	0.2	0	0	2	2	0	1800	1800	0
6/17/2024 10:08	58003	WCAR_T1	2	4	2	0.55	0.45	-0.1	2.29	2.57	0	0	0	0	0	0
6/17/2024 10:09	45502	DERR_T2	1	0	-1	0.2	0	-0.2	0.08	0.06	0	0	0	0	0	0
6/17/2024 10:09	67203	TEHI_T1	2	0	-2	0.25	0	-0.25	1.59	1.63	4	4	0	3000	3000	0
6/17/2024 10:09	45501	DERR_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/17/2024 10:09	60305	TWVA_T2	0	0	0	0	0	0	1.18	1.36	0	0	0	0	0	0
6/17/2024 10:09	67201	TEHI_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/17/2024 10:09	67605	WARW_T1	1	1	0	0.2	1.2	1	-1.67	-1.61	0	0	0	0	0	0
6/17/2024 10:09	56802	BENV_T2	1	1	0	0.9	0.6	-0.3	-0.98	-0.95	0	0	0	0	0	0
6/17/2024 10:09	67604	WARW_T1	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
6/17/2024 10:10	67605	WARW_T1	1	1	0	0.2	1.2	1	0	0	0	0	0	0	0	0
6/17/2024 10:10	10801	CHHI_T1	4	5	1	0.83	0.52	-0.31	-1.52	-1.42	3	3	0	2100	2100	0
6/17/2024 10:10	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 10:10	20401	ASHF_T2	1	4	3	0.2	0.85	0.65	0	0	0	0	0	0	0	0
6/17/2024 10:10	67603	WARW_T1	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
6/17/2024 10:10	56802	BENV_T2	1	1	0	0.9	0.6	-0.3	-2.95	-2.84	0	0	0	0	0	0
6/17/2024 10:10	20403	ASHF_T2	0	0	0	0	0	0	1.27	1.26	0	0	0	0	0	0
6/17/2024 10:11	20401	ASHF_T2	1	4	3	0.2	0.85	0.65	0	0	0	0	0	0	0	0
6/17/2024 10:11	58001	WCAR_T1	4	5	1	0.95	0.5	-0.45	0	0	0	0	0	0	0	0
6/17/2024 10:11	45502	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/17/2024 10:11	20403	ASHF_T2	0	0	0	0	0	0	1.27	1.26	0	0	0	0	0	0
6/17/2024 10:11	56802	BENV_T2	1	1	0	0.9	0.6	-0.3	-0.98	-0.95	0	0	0	0	0	0
6/17/2024 10:11	58003	WCAR_T1	2	4	2	0.55	0.45	-0.1	1.14	1.29	0	0	0	0	0	0
6/17/2024 10:11	45702	LIND_T2	2	2	0	0.5	0.45	-0.05	-1.42	-1.38	0	0	0	0	0	0
6/17/2024 10:11	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 10:11	10805	CHHI_T2	3	8	5	3.23	2.05	-1.18	-0.25	-0.2	1	1	0	600	600	0
6/17/2024 10:11	45501	DERR_T2	0	1	1	0	0.3	0.3	0.87	0.98	2	2	0	1800	1800	0
6/17/2024 10:11	52403	GRPA_T2	2	11	9	0.25	0.65	0.4	0.42	0.43	0	0	0	0	0	0
6/17/2024 10:12	56803	BENV_T1	0	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0
6/17/2024 10:12	56802	BENV_T2	1	1	0	0.9	0.6	-0.3	-0.98	-0.95	0	0	0	0	0	0
6/17/2024 10:12	56801	BENV_T1	9	5	-4	0.47	0.38	-0.09	-0.5	-0.47	1	1	0	600	600	0
6/17/2024 10:13	40902	JESH_T1	0	0	0	0	0	0	-0.3	-0.34	1	1	0	600	600	0
6/17/2024 10:13	45702	LIND_T2	2	2	0	0.5	0.45	-0.05	-1.42	-1.38	0	0	0	0	0	0
6/17/2024 10:13	10801	CHHI_T1	4	5	1	0.83	0.52	-0.31	-1.52	-1.42	3	3	0	2100	2100	0
6/17/2024 10:13	40901	JESH_T1	1	0	-1	1.1	1.4	0.3	0	0	0	0	0	0	0	0
6/17/2024 10:14	47001	HUGH_T2	0	0	0	0	0	0	-0.39	-0.28	0	0	0	0	0	0
6/17/2024 10:15	40101	HUNT_T2	33	46	13	0.45	0.6	0.15	0.04	0.02	0	0	0	0	0	0
6/17/2024 10:15	52004	LING_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/17/2024 10:15	52002	LING_T2	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
6/17/2024 10:16	47001	HUGH_T2	0	0	0	0	0	0	-0.39	-0.28	0	0	0	0	0	0
6/17/2024 10:16	52002	LING_T2	0	0	0	0	0	0	1	1.04	0	0	0	0	0	0
6/17/2024 10:16	40902	JESH_T1	1	0	-1	1.1	0	-1.1	-0.3	-0.34	1	1	0	600	600	0
6/17/2024 10:16	52004	LING_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/17/2024 10:16	40901	JESH_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
6/17/2024 10:17	40602	PIGR_T1	1	1	0	1.1	1.3	0.2	0	0	1	1	0	600	600	0
6/17/2024 10:17	52002	LING_T2	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
6/17/2024 10:17	52004	LING_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/17/2024 10:18	44601	SALE_T2	0	2	2	0	0	0	1.21	0.48	2	1	-1	900	600	-300
6/17/2024 10:20	48302	ORWI_T2	0	1	1	0	0	0	-0.35	-0.33	0	0	0	0	0	0
6/17/2024 10:20	43301	WATS_T2	0	0	0	0	0	0	-0.36	-0.34	1	1	0	900	900	0
6/17/2024 10:20	52004	LING_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/17/2024 10:20	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 10:20	40602	PIGR_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
6/17/2024 10:20	52002	LING_T2	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
6/17/2024 10:20	44601	SALE_T2	0	2	2	0	0	0	1.21	0.48	2	1	-1	900	600	-300
6/17/2024 10:21	15702	TANN_T2	0	0	0	0	0	0	-0.16	-0.23	0	0	0	0	0	0
6/17/2024 10:21	15703	TANN_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
6/17/2024 10:21	43304	WATS_T2	0	0	0	0	0	0	-0.53	-0.51	0	0	0	0	0	0
6/17/2024 10:22	48302	ORWI_T2	0	1	1	0	0	0	-0.33	-0.31	0	0	0	0	0	0
6/17/2024 10:24	57006	WHHI_T2	0	1	1	0	0.2	0.2	1.34	1.34	0	0	0	0	0	0
6/17/2024 10:24	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.29	0	0	0	0	0	0
6/17/2024 10:24	15703	TANN_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
6/17/2024 10:24	57003	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/17/2024 10:25	43301	WATS_T2	0	0	0	0	0	0	-0.34	-0.32	1	1	0	900	900	0
6/17/2024 10:26	10102	ALLE_T2	1	1	0	7.7	7.4	-0.3	0	0	0	0	0	0	0	0
6/17/2024 10:26	57003	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/17/2024 10:26	57006	WHHI_T2	0	1	1	0	0.2	0.2	1.34	1.34	0	0	0	0	0	0
6/17/2024 10:26	10805	OHHI_T2	6	13	7	0.47	0.67	0.2	-0.2	-0.17	1	1	0	600	600	0
6/17/2024 10:27	45501	DERR_T2	1	1	0	0.3	0.4	0.1	0.98	0.94	2	2	0	1800	1800	0
6/17/2024 10:27	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 10:29	53601	DALM_T2	1	1	0	0.4	0.1	-0.3	-0.2	-0.18	1	1	0	900	900	0
6/17/2024 10:31	55001	NEWP_T1	1	4	3	7.9	0	-7.9	0.31	0.35	0	0	0	0	0	0
6/17/2024 10:31	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 10:31	42903	MIDD_T2	0	0	0	0	0	0	0.89	0.93	1	1	0	1200	1200	0
6/17/2024 10:31	55002	NEWP_T1	4	6	2	0.78	0.7	-0.08	0	0	0	0	0	0	0	0
6/17/2024 10:31	58401	MORO_T1	0	0	0	0	0	0	-1.08	-1.07	2	2	0	1200	1200	0
6/17/2024 10:32	55001	NEWP_T1	1	4	3	7.9	0	-7.9	0.31	0.35	0	0	0	0	0	0
6/17/2024 10:32	54201	PENN_T1	5	5	0	0.94	0.86	-0.08	-0.91	-0.82	0	0	0	0	0	0
6/17/2024 10:32	55002	NEWP_T1	4	6	2	0.78	0.7	-0.08	0	0	0	0	0	0	0	0
6/17/2024 10:32	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 10:32	58401	MORO_T1	0	0	0	0	0	0	-1.08	-1.07	2	2	0	1200	1200	0
6/17/2024 10:32	54203	PENN_T1	18	18	0	0.47	0.28	-0.19	0	0	0	0	0	0	0	0
6/17/2024 10:33	46505	LOHA_T1	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
6/17/2024 10:33	46504	LOHA_T1	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
6/17/2024 10:34	41903	REED_T1	1	4	3	0.2	0.58	0.38	0	0	0	0	0	0	0	0
6/17/2024 10:34	43201	MVIL_T2	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
6/17/2024 10:34	43202	MVIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/17/2024 10:34	41902	REED_T1	0	2	2	0	0.2	0.2	0.59	0.61	0	0	0	0	0	0
6/17/2024 10:35	42201	SHEN_T2	0	0	0	0	0	0	0.15	0.09	1	1	0	600	600	0
6/17/2024 10:35	58401	MORO_T1	0	0	0	0	0	0	-1.08	-1.07	2	2	0	1200	1200	0
6/17/2024 10:35	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 10:35	65001	NEFF_T2	0	0	0	0	0	0	0.22	0.32	1	1	0	1200	1200	0
6/17/2024 10:36	42201	SHEN_T2	0	0	0	0	0	0	0.15	0.09	1	1	0	600	600	0
6/17/2024 10:37	64101	REFR_T1	0	0	0	0	0	0	0.25	0.32	0	0	0	0	0	0
6/17/2024 10:38	20401	ASHF_T2	4	2	-2	0.6	0.65	0.05	0	0	0	0	0	0	0	0
6/17/2024 10:38	42201	SHEN_T2	0	0	0	0	0	0	0.19	0.3	2	2	0	1200	1200	0
6/17/2024 10:38	20403	ASHF_T2	0	1	1	0	0.2	0.2	1.13	1.01	0	0	0	0	0	0
6/17/2024 10:40	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 10:40	21206	ECAR_T2	4	23	19	1.88	1.29	-0.59	0.49	0.53	0	0	0	0	0	0
6/17/2024 10:42	46206	DANV_T2	36	38	2	0.44	0.37	-0.07	2.9	2.89	1	1	0	1200	1200	0
6/17/2024 10:42	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/17/2024 10:43	46206	DANV_T2	36	38	2	0.44	0.37	-0.07	2.9	2.89	1	1	0	1200	1200	0
6/17/2024 10:43	21206	ECAR_T2	4	23	19	1.88	1.29	-0.59	0.49	0.53	0	0	0	0	0	0
6/17/2024 10:43	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 10:44	21203	ECAR_T1	1	0	-1	0.2	0	-0.2	-0.05	-0.02	0	0	0	0	0	0
6/17/2024 10:44	63501	HEID_TBK1-2	0	0	0	0	0	0	0.72	0.68	1	1	0	900	900	0
6/17/2024 10:45	52001	LING_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
6/17/2024 10:46	52403	GRPA_T2	3	4	1	0.4	0.55	0.15	0.44	0.45	0	0	0	0	0	0
6/17/2024 10:46	63804	HEMP_T1	1	2	1	6.9	6.9	0	0	0	0	0	0	0	0	0
6/17/2024 10:46	63802	HEMP_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
6/17/2024 10:46	52402	GRPA_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/17/2024 10:47	26401	INOR_T1	4	4	0	1.9	1.75	-0.15	1.4	1.31	0	0	0	0	0	0
6/17/2024 10:47	47901	HRDG_T1	0	0	0	0	0	0	1.75	1.71	1	1	0	1200	1200	0
6/17/2024 10:54	56802	BENV_T2	1	1	0	0.7	0.4	-0.3	-0.87	-0.84	0	0	0	0	0	0
6/17/2024 10:55	43304	WATS_T2	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
6/17/2024 10:57	53501	EVIL_T2	1	2	1	0.1	0.4	0.3	-0.56	-0.61	4	4	0	2300	2300	0
6/17/2024 10:57	53502	EVIL_T2	6	5	-1	0.7	0.67	-0.03	0	0	0	0	0	0	0	0
6/17/2024 10:58	53501	EVIL_T2	1	2	1	0.1	0.4	0.3	-0.56	-0.61	4	4	0	2300	2300	0
6/17/2024 10:58	53502	EVIL_T2	6	5	-1	0.7	0.67	-0.03	0	0	0	0	0	0	0	0
6/17/2024 10:59	23401	HONE_T2	0	1	1	0	0	0	0.47	0.47	0	0	0	0	0	0
6/17/2024 10:59	53502	EVIL_T2	6	5	-1	0.7	0.67	-0.03	0	0	0	0	0	0	0	0
6/17/2024 10:59	53501	EVIL_T2	1	2	1	0.1	0.4	0.3	-0.56	-0.61	4	4	0	2300	2300	0
6/17/2024 11:00	25404	LAHA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/17/2024 11:00	25402	LAHA_T2	1	2	1	0.1	0.45	0.35	-0.42	-0.28	0	0	0	0	0	0
6/17/2024 11:01	64204	KINZ_T1	1	4	3	1	0.47	-0.53	0	0	0	0	0	0	0	0
6/17/2024 11:01	64201	KINZ_T1	1	3	2	0.3	0.6	0.3	0	0	0	0	0	0	0	0
6/17/2024 11:01	64203	KINZ_T1	2	2	0	1.2	0.95	-0.25	0.31	0.38	3	3	0	2100	2100	0
6/17/2024 11:02	64201	KINZ_T1	1	3	2	0.3	0.6	0.3	-0.04	-0.05	4	4	0	2100	2100	0
6/17/2024 11:02	64204	KINZ_T1	1	4	3	1	0.47	-0.53	0	0	0	0	0	0	0	0
6/17/2024 11:02	64203	KINZ_T1	2	2	0	1.2	0.95	-0.25	0	0	0	0	0	0	0	0
6/17/2024 11:05	65603	QVIL_T2	0	0	0	0	0	0	-0.5	-0.56	0	0	0	0	0	0
6/17/2024 11:05	65604	QVIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/17/2024 11:05	25503	MADI_T1	1	1	0	0.2	0.2	0	-0.67	-0.65	0	0	0	0	0	0
6/17/2024 11:05	25501	MADI_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/17/2024 11:06	66502	SMAN_T2	1	1	0	0.3	0.1	-0.2	-0.39	-0.39	1	1	0	900	900	0
6/17/2024 11:07	66502	SMAN_T2	1	1	0	0.3	0.1	-0.2	-0.39	-0.39	1	1	0	900	900	0
6/17/2024 11:07	66703	STRA_T1	0	0	0	0	0	0	0.59	0.01	0	0	0	0	0	0
6/17/2024 11:15	46801	HEPB_T2	2	2	0	1.2	1	-0.2	0.2	0.23	0	0	0	0	0	0
6/17/2024 11:15	63804	HEMP_T1	1	1	0	6.9	7.2	0.3	0.02	0.1	0	0	0	0	0	0
6/17/2024 11:15	46803	HEPB_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
6/17/2024 11:16	46801	HEPB_T2	2	2	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
6/17/2024 11:16	42901	MIDD_T2	0	0	0	0	0	0	-0.06	0.01	1	1	0	600	600	0
6/17/2024 11:16	46803	HEPB_T2	1	1	0	0.3	0.6	0.3	0.45	0.46	0	0	0	0	0	0
6/17/2024 11:21	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/17/2024 11:21	56501	ROCK_T2	1	3	2	1	0.3	-0.7	0	0	0	0	0	0	0	0
6/17/2024 11:21	56504	ROCK_T2	0	1	1	0	0	0	0.17	0.18	0	0	0	0	0	0
6/17/2024 11:23	56803	BENV_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/17/2024 11:23	46004	BERW_T2	0	0	0	0	0	0	0.67	0.74	0	0	0	0	0	0
6/17/2024 11:23	56801	BENV_T1	3	2	-1	0.13	0.7	0.57	-0.36	-0.33	1	1	0	600	600	0
6/17/2024 11:26	56801	BENV_T1	3	2	-1	0.13	0.7	0.57	-0.36	-0.33	1	1	0	600	600	0
6/17/2024 11:26	61506	EPET_T2	0	0	0	0	0	0	-1.22	-1.1	2	2	0	1800	1800	0
6/17/2024 11:26	61501	EPET_T2	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
6/17/2024 11:26	56803	BENV_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/17/2024 11:27	53903	HALI_T2	3	6	3	0.57	0.9	0.33	0	0	0	0	0	0	0	0
6/17/2024 11:27	53902	HALI_T2	2	3	1	2.35	2.37	0.02	-0.6	-0.57	0	0	0	0	0	0
6/17/2024 11:29	53902	HALI_T2	2	3	1	2.35	2.37	0.02	0	0	0	0	0	0	0	0
6/17/2024 11:29	53903	HALI_T2	3	6	3	0.57	0.9	0.33	0.03	0.03	0	0	0	0	0	0
6/17/2024 11:32	55001	NEWP_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/17/2024 11:32	12803	MICK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/17/2024 11:32	55002	NEWP_T1	2	1	-1	1.3	2.3	1	0.03	0.05	0	0	0	0	0	0
6/17/2024 11:32	12801	MICK_T1	0	0	0	0	0	0	-0.29	-0.3	1	1	0	600	600	0
6/17/2024 11:33	47402	PENS_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/17/2024 11:33	47403	PENS_T1	6	6	0	0.78	0.87	0.09	0	0	0	0	0	0	0	0
6/17/2024 11:33	47401	PENS_T1	4	4	0	0.35	0.6	0.25	3.6	3.45	0	0	0	0	0	0
6/17/2024 11:35	66901	SHIL_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
6/17/2024 11:35	66903	SHIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/17/2024 11:35	55002	NEWP_T1	2	1	-1	1.3	2.3	1	0.03	0.05	0	0	0	0	0	0
6/17/2024 11:35	55001	NEWP_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/17/2024 11:36	67904	WNHO_T1	0	0	0	0	0	0	-1.77	-1.76	2	2	0	2100	2100	0
6/17/2024 11:36	47403	PENS_T1	6	6	0	0.78	0.87	0.09	0	0	0	0	0	0	0	0
6/17/2024 11:36	47402	PENS_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/17/2024 11:36	47401	PENS_T1	4	4	0	0.35	0.6	0.25	1.73	1.76	0	0	0	0	0	0
6/17/2024 11:38	10801	CHHI_T1	3	4	1	0.37	0.53	0.16	-1.23	-1.17	3	3	0	2100	2100	0
6/17/2024 11:39	10801	CHHI_T1	3	4	1	0.37	0.53	0.16	-1.23	-1.17	3	3	0	2100	2100	0
6/17/2024 11:40	42701	AUGU_T1	65	69	4	0.99	0.98	-0.01	0	0	0	0	0	0	0	0
6/17/2024 11:40	47402	PENS_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/17/2024 11:40	47401	PENS_T1	4	4	0	0.35	0.6	0.25	1.73	1.76	0	0	0	0	0	0
6/17/2024 11:40	47403	PENS_T1	6	6	0	0.78	0.87	0.09	0	0	0	0	0	0	0	0
6/17/2024 11:41	47402	PENS_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/17/2024 11:41	47401	PENS_T1	4	4	0	0.35	0.6	0.25	1.73	1.76	0	0	0	0	0	0
6/17/2024 11:41	47403	PENS_T1	6	6	0	0.78	0.87	0.09	0	0	0	0	0	0	0	0
6/17/2024 11:42	42701	AUGU_T1	65	69	4	0.99	0.98	-0.01	0	0	0	0	0	0	0	0
6/17/2024 11:42	46802	HEPB_T1	0	0	0	0	0	0	0.12	0.08	0	0	0	0	0	0
6/17/2024 11:43	28801	LAKE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 11:43	28805	LAKE_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
6/17/2024 11:44	22001	BOHE_T1	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/17/2024 11:44	22003	BOHE_T1	5	3	-2	1.24	1.67	0.43	0	0	0	0	0	0	0	0
6/17/2024 11:44	22002	BOHE_T1	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
6/17/2024 11:45	52404	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 11:45	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 11:45	22001	BOHE_T1	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/17/2024 11:45	22003	BOHE_T1	3	3	0	1.67	1.27	-0.4	0.03	0.03	0	0	0	0	0	0
6/17/2024 11:45	52403	GRPA_T2	9	21	12	0.91	0.48	-0.43	0.02	0.02	0	0	0	0	0	0
6/17/2024 11:46	63401	HONY_T1	0	0	0	0	0	0	1.73	1.68	2	2	0	1200	1200	0
6/17/2024 11:46	40101	HUNT_T2	23	14	-9	0.5	0.54	0.04	-0.14	-0.18	0	0	0	0	0	0
6/17/2024 11:47	43202	MVIL_T2	1	1	0	0.6	0.6	0	-0.36	-0.36	0	0	0	0	0	0
6/17/2024 11:48	64101	REFR_T1	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
6/17/2024 11:48	59302	MCAL_T1	5	7	2	0.3	0.33	0.03	-0.38	-0.21	1	1	0	600	600	0
6/17/2024 11:50	43202	MVIL_T2	1	1	0	0.6	0.6	0	-0.36	-0.36	0	0	0	0	0	0
6/17/2024 11:50	44703	MUNC_T2	0	0	0	0	0	0	1.16	1.12	0	0	0	0	0	0
6/17/2024 11:50	63401	HONY_T1	0	0	0	0	0	0	0.86	0.84	1	1	0	600	600	0
6/17/2024 11:51	55002	NEWP_T1	1	1	0	2.3	2.2	-0.1	0.02	0.03	0	0	0	0	0	0
6/17/2024 11:51	65205	PRIN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/17/2024 11:51	64101	REFR_T1	0	0	0	0	0	0	0.78	0.83	0	0	0	0	0	0
6/17/2024 11:51	55001	NEWP_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/17/2024 11:51	16302	ALPA_T2	0	3	3	0	0.27	0.27	0.05	0.21	0	0	0	0	0	0
6/17/2024 11:52	64101	REFR_T1	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
6/17/2024 11:53	56803	BENV_T1	2	7	5	1.1	0.3	-0.8	0	0	0	0	0	0	0	0
6/17/2024 11:53	64101	REFR_T1	0	0	0	0	0	0	0.78	0.83	0	0	0	0	0	0
6/17/2024 11:53	56801	BENV_T1	1	4	3	0.7	1.03	0.33	-0.61	-0.55	2	2	0	1200	1200	0
6/17/2024 11:53	67904	WNHO_T1	0	0	0	0	0	0	-1.76	-1.75	2	2	0	2100	2100	0
6/17/2024 11:53	61102	BERK_T5	0	0	0	0	0	0	1.17	0.14	1	2	1	300	1200	900
6/17/2024 11:54	16302	ALPA_T2	0	3	3	0	0.27	0.27	0.05	0.21	0	0	0	0	0	0
6/17/2024 11:54	44301	BEAV_T2	3	3	0	0.83	0.8	-0.03	0.65	-0.01	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/17/2024 11:55	64101	REFR_T1	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
6/17/2024 11:55	56803	BENV_T1	2	7	5	1.1	0.3	-0.8	0	0	0	0	0	0	0	0
6/17/2024 11:55	56801	BENV_T1	1	4	3	0.7	1.03	0.33	-0.3	-0.28	1	1	0	600	600	0
6/17/2024 11:55	16302	ALPA_T2	0	3	3	0	0.27	0.27	0.05	0.21	0	0	0	0	0	0
6/17/2024 11:56	61504	EPET_T2	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
6/17/2024 11:56	56803	BENV_T1	2	7	5	1.1	0.3	-0.8	0	0	0	0	0	0	0	0
6/17/2024 11:56	56801	BENV_T1	1	4	3	0.7	1.03	0.33	-1.52	-1.38	5	5	0	3000	3000	0
6/17/2024 11:56	61102	BERK_T5	0	0	0	0	0	0	1.17	0.14	1	2	1	300	1200	900
6/17/2024 11:56	16302	ALPA_T2	0	3	3	0	0.27	0.27	0.05	0.21	0	0	0	0	0	0
6/17/2024 11:56	61501	EPET_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
6/17/2024 11:57	54504	ENOL_T2	0	0	0	0	0	0	-0.71	-0.69	1	1	0	600	600	0
6/17/2024 12:00	53501	EVIL_T2	1	2	1	1	0.75	-0.25	0	0	0	0	0	0	0	0
6/17/2024 12:00	53502	EVIL_T2	1	0	-1	0.5	0	-0.5	0.56	0.24	2	2	0	1200	1200	0
6/17/2024 12:01	64802	MONE_T2	5	11	6	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
6/17/2024 12:01	64801	MONE_T2	1	10	9	0.9	0.18	-0.72	-0.01	-0.01	0	0	0	0	0	0
6/17/2024 12:02	63401	HONY_T1	0	0	0	0	0	0	0.84	0.67	1	1	0	600	600	0
6/17/2024 12:02	27005	BELL_T1	0	0	0	0	0	0	-1.14	-1.1	0	0	0	0	0	0
6/17/2024 12:03	46501	LOHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/17/2024 12:03	64802	MONE_T2	5	11	6	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
6/17/2024 12:03	64801	MONE_T2	1	10	9	0.9	0.18	-0.72	-0.01	-0.01	0	0	0	0	0	0
6/17/2024 12:03	46504	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 12:03	46506	LOHA_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/17/2024 12:03	46502	LOHA_T1	0	0	0	0	0	0	-0.98	-1	2	2	0	2400	2400	0
6/17/2024 12:05	59201	THOM_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/17/2024 12:05	59202	THOM_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
6/17/2024 12:07	46001	BERW_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
6/17/2024 12:08	59201	THOM_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/17/2024 12:08	59202	THOM_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
6/17/2024 12:09	46001	BERW_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
6/17/2024 12:10	10105	ALLE_T3	12	15	3	0.87	1.08	0.21	0	0	0	0	0	0	0	0
6/17/2024 12:10	10109	ALLE_T3	3	4	1	1.1	0.73	-0.37	0	0	0	0	0	0	0	0
6/17/2024 12:10	10205	ALLE_T3	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/17/2024 12:10	10103	ALLE_T3	2	5	3	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/17/2024 12:10	46001	BERW_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
6/17/2024 12:10	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 12:11	59202	THOM_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
6/17/2024 12:11	46001	BERW_T1	0	0	0	0	0	0	0.38	0.34	0	0	0	0	0	0
6/17/2024 12:11	59201	THOM_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/17/2024 12:12	46001	BERW_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
6/17/2024 12:12	46803	HEPB_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/17/2024 12:12	46801	HEPB_T2	2	2	0	1	1	0	0.29	0.3	0	0	0	0	0	0
6/17/2024 12:13	42701	AUGU_T1	69	78	9	1.05	1.18	0.13	0	0	0	0	0	0	0	0
6/17/2024 12:15	52403	GRPA_T2	20	18	-2	0.64	0.76	0.12	0	0	0	0	0	0	0	0
6/17/2024 12:15	52404	GRPA_T2	3	0	-3	0.33	0	-0.33	0.88	0.99	0	0	0	0	0	0
6/17/2024 12:15	64204	KINZ_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
6/17/2024 12:15	64201	KINZ_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/17/2024 12:15	52402	GRPA_T2	1	2	1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/17/2024 12:15	64203	KINZ_T1	2	2	0	0.75	1	0.25	0.3	0.38	3	3	0	2100	2100	0
6/17/2024 12:16	52403	GRPA_T2	20	18	-2	0.64	0.76	0.12	0	0	0	0	0	0	0	0
6/17/2024 12:16	52402	GRPA_T2	1	2	1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/17/2024 12:16	64704	LITI_T1	0	0	0	0	0	0	0.76	0.72	1	1	0	600	600	0
6/17/2024 12:16	12401	MILF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 12:16	64701	LITI_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 12:16	52404	GRPA_T2	3	0	-3	0.33	0	-0.33	0.88	0.99	0	0	0	0	0	0
6/17/2024 12:16	12403	MILF_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/17/2024 12:16	12402	MILF_T1	64	138	74	0.57	0.78	0.21	1.17	1.17	0	0	0	0	0	0
6/17/2024 12:17	61801	EELI_T2	0	0	0	0	0	0	-0.28	-0.06	1	1	0	600	600	0
6/17/2024 12:17	26402	INOR_T1	0	0	0	0	0	0	-1.45	-1.44	1	1	0	600	600	0
6/17/2024 12:17	26401	INOR_T1	4	3	-1	2.3	2.87	0.57	0	0	0	0	0	0	0	0
6/17/2024 12:17	61802	EELI_T2	5	7	2	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/17/2024 12:17	46101	MACI_T2	0	0	0	0	0	0	-0.47	-0.39	2	2	0	2400	2400	0
6/17/2024 12:21	67605	WARW_T1	1	0	-1	0.9	1.1	0.2	-0.78	-0.77	0	0	0	0	0	0
6/17/2024 12:21	67603	WARW_T1	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
6/17/2024 12:23	61102	BERK_T5	0	0	0	0	0	0	0.45	0.35	4	4	0	2400	2400	0
6/17/2024 12:24	61102	BERK_T5	0	0	0	0	0	0	0.45	0.35	4	4	0	2400	2400	0
6/17/2024 12:24	67901	WNHO_T2	0	0	0	0	0	0	-0.66	-0.53	2	2	0	2100	2100	0
6/17/2024 12:25	42701	AUGU_T1	73	78	5	1.2	1.27	0.07	0	0	0	0	0	0	0	0
6/17/2024 12:25	61102	BERK_T5	0	0	0	0	0	0	0.22	0.18	2	2	0	1200	1200	0
6/17/2024 12:26	61102	BERK_T5	0	0	0	0	0	0	0.45	0.35	4	4	0	2400	2400	0
6/17/2024 12:27	61102	BERK_T5	0	0	0	0	0	0	0.22	0.18	2	2	0	1200	1200	0
6/17/2024 12:28	41801	GOCI_T2	2	1	-1	0.75	1	0.25	0	0	0	0	0	0	0	0
6/17/2024 12:29	53903	HALI_T2	5	7	2	1.02	0.74	-0.28	0.05	0.06	0	0	0	0	0	0
6/17/2024 12:29	53901	HALI_T2	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
6/17/2024 12:29	53902	HALI_T2	3	3	0	2.2	2.23	0.03	0	0	0	0	0	0	0	0
6/17/2024 12:30	41801	GOCI_T2	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
6/17/2024 12:30	60803	BUCK_T1	8	7	-1	0.25	0.17	-0.08	0	0	0	0	0	0	0	0
6/17/2024 12:30	60801	BUCK_T1	1	1	0	0.1	0.1	0	-0.42	-0.46	1	1	0	600	600	0
6/17/2024 12:32	53903	HALI_T2	7	5	-2	0.74	0.82	0.08	0.15	0.17	0	0	0	0	0	0
6/17/2024 12:32	47802	MOCK_T2	1	0	-1	0.1	0	-0.1	-0.55	-0.01	0	0	0	0	0	0
6/17/2024 12:32	53902	HALI_T2	3	3	0	2.23	2	-0.23	0	0	0	0	0	0	0	0
6/17/2024 12:34	61102	BERK_T5	0	0	0	0	0	0	0.22	0.18	2	2	0	1200	1200	0
6/17/2024 12:34	11804	FRAN_T1	1	20	19	0.4	0.36	-0.04	1.82	1.91	0	0	0	0	0	0
6/17/2024 12:39	16102	BING_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/17/2024 12:39	61101	BERK_T5	0	0	0	0	0	0	-0.47	-0.45	0	0	0	0	0	0
6/17/2024 12:39	16103	BING_T2	1	4	3	0.2	0	-0.2	-1.35	-1.32	2	2	0	1500	1500	0
6/17/2024 12:39	16101	BING_T2	2	2	0	5.2	9.2	4	0	0	0	0	0	0	0	0
6/17/2024 12:40	61101	BERK_T5	0	0	0	0	0	0	-0.47	-0.45	0	0	0	0	0	0
6/17/2024 12:41	53502	EVIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/17/2024 12:41	53501	EVIL_T2	1	1	0	0.5	0	-0.5	-1.14	-1.12	5	5	0	2900	2900	0
6/17/2024 12:42	16103	BING_T2	1	4	3	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/17/2024 12:42	41801	GOCI_T2	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
6/17/2024 12:42	16102	BING_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/17/2024 12:42	16101	BING_T2	2	2	0	5.2	9.2	4	1.02	1.03	0	0	0	0	0	0
6/17/2024 12:43	53502	EVIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/17/2024 12:43	53501	EVIL_T2	1	1	0	0.5	0	-0.5	-3.42	-3.35	15	15	0	8700	8700	0
6/17/2024 12:44	41801	GOCI_T2	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
6/17/2024 12:45	40101	HUNT_T2	96	347	251	0.56	0.7	0.14	-0.07	-0.04	0	0	0	0	0	0
6/17/2024 12:45	53501	EVIL_T2	0	3	3	0	0.5	0.5	-1.14	-1.12	5	5	0	2900	2900	0
6/17/2024 12:45	53502	EVIL_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
6/17/2024 12:47	52002	LING_T2	3	0	-3	0.15	0	-0.15	0.82	0.83	0	0	0	0	0	0
6/17/2024 12:47	52004	LING_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/17/2024 12:48	40101	HUNT_T2	96	347	251	0.56	0.7	0.14	-0.07	-0.04	0	0	0	0	0	0
6/17/2024 12:50	65901	SAKR_T2	1	1	0	5.9	5.8	-0.1	-0.31	-0.28	2	2	0	1500	1500	0
6/17/2024 12:50	65902	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 12:51	67804	WLAN_T1	8	10	2	0.26	0.61	0.35	0	0	0	0	0	0	0	0
6/17/2024 12:51	67801	WLAN_T1	1	1	0	1.2	0	-1.2	0.5	-0.65	0	0	0	0	0	0
6/17/2024 12:54	67201	TEHI_T1	0	3	3	0	0.2	0.2	0.68	0.87	1	1	0	600	600	0
6/17/2024 12:54	67203	TEHI_T1	2	7	5	1.2	1.3	0.1	0	0	0	0	0	0	0	0
6/17/2024 12:55	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 12:57	61102	BERK_T5	0	0	0	0	0	0	0.24	0.28	2	2	0	1200	1200	0
6/17/2024 12:57	44301	BEAV_T2	2	5	3	1.7	0.48	-1.22	1.02	0.96	2	2	0	1500	1500	0
6/17/2024 13:01	23202	HIRU_T2	0	2	2	0	0.2	0.2	0.16	0.17	0	0	0	0	0	0
6/17/2024 13:01	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 13:01	23203	HIRU_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/17/2024 13:04	56501	ROCK_T2	7	12	5	1.7	1.06	-0.64	-1.7	-1.68	0	0	0	0	0	0
6/17/2024 13:04	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 13:04	56504	ROCK_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/17/2024 13:05	56501	ROCK_T2	7	12	5	1.7	1.06	-0.64	0	0	0	0	0	0	0	0
6/17/2024 13:05	56504	ROCK_T2	1	1	0	0.3	0.2	-0.1	-0.66	-0.63	0	0	0	0	0	0
6/17/2024 13:05	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 13:06	67503	WEWI_T2	0	3	3	0	0.43	0.43	-0.19	-0.09	0	0	0	0	0	0
6/17/2024 13:06	67502	WEWI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/17/2024 13:07	67502	WEWI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/17/2024 13:07	67503	WEWI_T2	0	3	3	0	0.43	0.43	-0.19	-0.09	0	0	0	0	0	0
6/17/2024 13:08	49803	UNIV_T1	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
6/17/2024 13:08	49804	UNIV_T1	0	0	0	0	0	0	1.95	1.92	0	0	0	0	0	0
6/17/2024 13:09	46204	DANV_T2	2	27	25	0.25	0.4	0.15	0	0	0	0	0	0	0	0
6/17/2024 13:09	46206	DANV_T2	49	78	29	0.53	0.74	0.21	3.15	3.25	1	1	0	1200	1200	0
6/17/2024 13:10	46204	DANV_T2	2	27	25	0.25	0.4	0.15	0	0	0	0	0	0	0	0
6/17/2024 13:10	46206	DANV_T2	49	78	29	0.53	0.74	0.21	6.3	6.5	2	2	0	2400	2400	0
6/17/2024 13:11	46005	BERW_T1	1	1	0	0.1	0.2	0.1	-1.36	-1.35	2	2	0	2100	2100	0
6/17/2024 13:12	24701	FLND_T2	9	0	-9	0.78	0	-0.78	0	0	0	0	0	0	0	0
6/17/2024 13:12	24702	FLND_T2	2	2	0	0.35	0.8	0.45	0.87	0.7	1	1	0	1200	1200	0
6/17/2024 13:13	45501	DERR_T2	1	4	3	1.2	0.65	-0.55	1.06	1.29	2	2	0	1800	1800	0
6/17/2024 13:13	45502	DERR_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/17/2024 13:13	61102	BERK_T5	0	0	0	0	0	0	0.28	0.43	2	2	0	1200	1200	0
6/17/2024 13:14	40101	HUNT_T2	300	360	60	0.72	0.7	-0.02	-0.02	-0.01	0	0	0	0	0	0
6/17/2024 13:14	41801	GOCI_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
6/17/2024 13:14	45502	DERR_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/17/2024 13:14	45501	DERR_T2	1	4	3	1.2	0.65	-0.55	1.06	1.29	2	2	0	1800	1800	0
6/17/2024 13:15	65501	MOJO_T1	0	0	0	0	0	0	-0.58	-0.46	1	1	0	900	900	0
6/17/2024 13:15	41801	GOCI_T2	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
6/17/2024 13:17	13503	MCMI_T2	44	134	90	0.42	0.32	-0.1	-0.71	-0.7	0	0	0	0	0	0
6/17/2024 13:18	41902	REED_T1	9	12	3	0.57	0.4	-0.17	0.62	0.63	0	0	0	0	0	0
6/17/2024 13:18	13503	MCMI_T2	44	134	90	0.42	0.32	-0.1	-0.71	-0.7	0	0	0	0	0	0
6/17/2024 13:18	60502	NMAN_T2	0	0	0	0	0	0	0.87	0.81	0	0	0	0	0	0
6/17/2024 13:18	60504	NMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/17/2024 13:18	41903	REED_T1	4	4	0	0.78	0.8	0.02	0	0	0	0	0	0	0	0
6/17/2024 13:18	60501	NMAN_T2	3	3	0	2	2.47	0.47	0	0	0	0	0	0	0	0
6/17/2024 13:19	64101	REFR_T1	3	3	0	0.43	0.1	-0.33	0.5	-0.07	0	0	0	0	0	0
6/17/2024 13:19	13503	MCMI_T2	44	134	90	0.42	0.32	-0.1	-0.71	-0.7	0	0	0	0	0	0
6/17/2024 13:19	56504	ROCK_T2	1	1	0	0.2	0.2	0	-0.63	-0.61	0	0	0	0	0	0
6/17/2024 13:19	56501	ROCK_T2	11	12	1	1.13	1.02	-0.11	0	0	0	0	0	0	0	0
6/17/2024 13:19	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/17/2024 13:20	56501	ROCK_T2	11	12	1	1.13	1.02	-0.11	0	0	0	0	0	0	0	0
6/17/2024 13:20	64101	REFR_T1	3	3	0	0.43	0.1	-0.33	0.5	-0.07	0	0	0	0	0	0
6/17/2024 13:20	56504	ROCK_T2	1	1	0	0.2	0.2	0	-0.63	-0.61	0	0	0	0	0	0
6/17/2024 13:20	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/17/2024 13:20	13303	ORVI_T1	0	0	0	0	0	0	0.55	0.57	0	0	0	0	0	0
6/17/2024 13:21	56504	ROCK_T2	1	1	0	0.2	0.2	0	-0.63	-0.61	0	0	0	0	0	0
6/17/2024 13:21	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 13:21	60501	NMAN_T2	3	3	0	2	2.47	0.47	0	0	0	0	0	0	0	0
6/17/2024 13:21	56501	ROCK_T2	11	12	1	1.13	1.02	-0.11	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/17/2024 13:21	60502	NMAN_T2	0	0	0	0	0	0	0.81	0.73	0	0	0	0	0	0
6/17/2024 13:21	13503	MCMI_T2	44	134	90	0.42	0.32	-0.1	-0.71	-0.7	0	0	0	0	0	0
6/17/2024 13:21	60504	NMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/17/2024 13:21	64101	REFR_T1	3	3	0	0.43	0.1	-0.33	-0.07	-0.06	0	0	0	0	0	0
6/17/2024 13:21	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/17/2024 13:22	43304	WATS_T2	0	1	1	0	0	0	-1.56	-0.9	2	2	0	1200	1200	0
6/17/2024 13:22	64101	REFR_T1	3	3	0	0.43	0.1	-0.33	-0.13	-0.13	0	0	0	0	0	0
6/17/2024 13:22	67204	TEHI_T2	0	1	1	0	0	0	-0.05	-0.04	0	0	0	0	0	0
6/17/2024 13:23	55103	WERT_T1	1	1	0	8.4	7.5	-0.9	0	0	0	0	0	0	0	0
6/17/2024 13:23	55101	WERT_T1	0	0	0	0	0	0	-1.56	-1.67	4	4	0	3300	3300	0
6/17/2024 13:24	67204	TEHI_T2	0	1	1	0	0	0	-0.05	-0.04	0	0	0	0	0	0
6/17/2024 13:24	56802	BENV_T2	2	1	-1	0.4	0.1	-0.3	-0.73	-0.71	0	0	0	0	0	0
6/17/2024 13:25	43304	WATS_T2	0	1	1	0	0	0	-1.56	-0.9	2	2	0	1200	1200	0
6/17/2024 13:25	46005	BERW_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/17/2024 13:25	46001	BERW_T1	0	0	0	0	0	0	0.4	0.66	0	0	0	0	0	0
6/17/2024 13:28	48901	FOSP_T2	0	0	0	0	0	0	0	-0.01	1	1	0	600	600	0
6/17/2024 13:29	40101	HUNT_T2	341	436	95	0.85	0.68	-0.17	-0.01	0	0	0	0	0	0	0
6/17/2024 13:29	64204	KINZ_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
6/17/2024 13:29	41801	GOCI_T2	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
6/17/2024 13:29	64202	KINZ_T1	4	4	0	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/17/2024 13:29	64203	KINZ_T1	2	3	1	2.4	2	-0.4	0	0	0	0	0	0	0	0
6/17/2024 13:29	64201	KINZ_T1	5	4	-1	0.46	0.2	-0.26	-0.05	0.04	4	4	0	2100	2100	0
6/17/2024 13:30	65402	MARI_T1	6	3	-3	0.97	0	-0.97	0	0	0	0	0	0	0	0
6/17/2024 13:30	59302	MCAL_T1	15	28	13	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
6/17/2024 13:30	59301	MCAL_T1	4	0	-4	0.13	0	-0.13	-0.8	-0.82	0	0	0	0	0	0
6/17/2024 13:30	65401	MARI_T1	15	13	-2	2.23	1.64	-0.59	0	0	0	0	0	0	0	0
6/17/2024 13:30	48901	FOSP_T2	0	0	0	0	0	0	-0.01	-0.02	2	2	0	1200	1200	0
6/17/2024 13:31	65401	MARI_T1	15	13	-2	2.23	1.64	-0.59	0	0	0	0	0	0	0	0
6/17/2024 13:31	65402	MARI_T1	6	3	-3	0.97	0	-0.97	0	0	0	0	0	0	0	0
6/17/2024 13:32	60502	NMAN_T2	0	0	0	0	0	0	0.81	0.73	0	0	0	0	0	0
6/17/2024 13:32	60504	NMAN_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/17/2024 13:32	48302	ORWI_T2	2	12	10	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/17/2024 13:32	48303	ORWI_T2	0	0	0	0	0	0	0.67	0.61	0	0	0	0	0	0
6/17/2024 13:32	60501	NMAN_T2	3	3	0	2.47	2	-0.47	0	0	0	0	0	0	0	0
6/17/2024 13:33	64204	KINZ_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/17/2024 13:33	64203	KINZ_T1	2	3	1	2	2.45	0.45	0.47	0.52	3	3	0	2100	2100	0
6/17/2024 13:33	64202	KINZ_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 13:33	64201	KINZ_T1	3	7	4	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/17/2024 13:34	48302	ORWI_T2	2	12	10	0.2	0.1	-0.1	-0.11	-0.09	0	0	0	0	0	0
6/17/2024 13:35	13503	MCMI_T2	134	74	-60	0.32	0.35	0.03	-0.7	-0.69	0	0	0	0	0	0
6/17/2024 13:36	65902	SAKR_T2	1	1	0	0.7	0.6	-0.1	-0.76	-0.69	2	2	0	1200	1200	0
6/17/2024 13:36	65402	MARI_T1	6	3	-3	0.97	0	-0.97	0	0	0	0	0	0	0	0
6/17/2024 13:36	65901	SAKR_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
6/17/2024 13:36	65401	MARI_T1	15	13	-2	2.23	1.64	-0.59	0	0	0	0	0	0	0	0
6/17/2024 13:37	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 13:37	55103	WERT_T1	1	1	0	7.5	5.9	-1.6	0	0	0	0	0	0	0	0
6/17/2024 13:37	55101	WERT_T1	0	2	2	0	0	0	-1.67	-1.76	4	4	0	3300	3300	0
6/17/2024 13:39	14404	SSLA_T1	1	1	0	3	3	0	0	0	0	0	0	0	0	0
6/17/2024 13:39	55101	WERT_T1	0	2	2	0	0	0	-3.35	-3.52	8	8	0	6600	6600	0
6/17/2024 13:39	55103	WERT_T1	1	1	0	7.5	5.9	-1.6	0	0	0	0	0	0	0	0
6/17/2024 13:39	14403	SSLA_T1	3	4	1	0.33	0.1	-0.23	1.53	1.03	0	1	1	0	600	600
6/17/2024 13:40	45402	WBLO_T2	0	0	0	0	0	0	-0.85	-0.84	1	1	0	900	900	0
6/17/2024 13:40	45502	DERR_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 13:40	45501	DERR_T2	4	10	6	0.53	0.45	-0.08	1.35	1.34	2	2	0	1800	1800	0
6/17/2024 13:41	55101	WERT_T1	0	2	2	0	0	0	-1.67	-1.76	4	4	0	3300	3300	0
6/17/2024 13:41	45402	WBLO_T2	0	0	0	0	0	0	-0.85	-0.84	1	1	0	900	900	0
6/17/2024 13:41	53501	EVIL_T2	2	4	2	0.45	0.3	-0.15	-1.09	-1.21	5	5	0	2900	2900	0
6/17/2024 13:41	53502	EVIL_T2	1	2	1	1	0.65	-0.35	0	0	0	0	0	0	0	0
6/17/2024 13:41	55103	WERT_T1	1	1	0	7.5	5.9	-1.6	0	0	0	0	0	0	0	0
6/17/2024 13:42	55101	WERT_T1	0	2	2	0	0	0	-1.67	-1.76	4	4	0	3300	3300	0
6/17/2024 13:42	55103	WERT_T1	1	1	0	7.5	5.9	-1.6	0	0	0	0	0	0	0	0
6/17/2024 13:43	45502	DERR_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 13:43	45501	DERR_T2	4	10	6	0.53	0.45	-0.08	1.35	1.34	2	2	0	1800	1800	0
6/17/2024 13:44	64202	KINZ_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 13:44	64204	KINZ_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/17/2024 13:44	52403	GRPA_T2	13	31	18	1.08	0.95	-0.13	0	0	0	0	0	0	0	0
6/17/2024 13:44	52402	GRPA_T2	10	12	2	0.4	0.8	0.4	-1.18	-1.15	0	0	0	0	0	0
6/17/2024 13:44	64201	KINZ_T1	3	7	4	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/17/2024 13:44	64203	KINZ_T1	2	3	1	2	2.45	0.45	0.52	0.81	3	3	0	2100	2100	0
6/17/2024 13:44	52404	GRPA_T2	0	0	0	0	0	0	-0.05	0.13	0	0	0	0	0	0
6/17/2024 13:44	52401	GRPA_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
6/17/2024 13:44	20601	GRWO_T2	15	39	24	0.45	0.36	-0.09	0.54	0.56	0	0	0	0	0	0
6/17/2024 13:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 13:45	52402	GRPA_T2	3	12	9	1.03	0.63	-0.4	-1.18	-1.15	0	0	0	0	0	0
6/17/2024 13:45	52401	GRPA_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
6/17/2024 13:45	52403	GRPA_T2	21	41	20	0.94	1.04	0.1	0	0	0	0	0	0	0	0
6/17/2024 13:46	12305	LANA_T2	3	3	0	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
6/17/2024 13:46	12301	LANA_T2	0	0	0	0	0	0	-0.96	-0.94	1	1	0	1200	1200	0
6/17/2024 13:46	64203	KINZ_T1	3	2	-1	1.73	1.85	0.12	0.52	0.81	3	3	0	2100	2100	0
6/17/2024 13:46	12304	LANA_T2	45	82	37	0.54	0.53	-0.01	0	0	0	0	0	0	0	0
6/17/2024 13:46	65401	MARI_T1	13	13	0	2.28	1.64	-0.64	0	0	0	0	0	0	0	0
6/17/2024 13:46	64204	KINZ_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/17/2024 13:46	65402	MARI_T1	3	4	1	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/17/2024 13:46	64202	KINZ_T1	4	1	-3	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/17/2024 13:46	64201	KINZ_T1	4	11	7	0.35	0.37	0.02	0	0	0	0	0	0	0	0
6/17/2024 13:47	20601	GRWO_T2	26	50	24	0.38	0.43	0.05	0.54	0.56	0	0	0	0	0	0
6/17/2024 13:48	65602	QVIL_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/17/2024 13:48	65604	QVIL_T2	2	4	2	1.1	1.6	0.5	0.86	0.88	0	0	0	0	0	0
6/17/2024 13:49	65604	QVIL_T2	2	4	2	1.1	1.6	0.5	0.86	0.88	0	0	0	0	0	0
6/17/2024 13:49	65602	QVIL_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/17/2024 13:50	65604	QVIL_T2	2	4	2	1.1	1.6	0.5	0.86	0.88	0	0	0	0	0	0
6/17/2024 13:50	65602	QVIL_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/17/2024 13:51	65602	QVIL_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/17/2024 13:51	65604	QVIL_T2	2	4	2	1.1	1.6	0.5	0.88	0.9	0	0	0	0	0	0
6/17/2024 13:52	65602	QVIL_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/17/2024 13:52	65604	QVIL_T2	2	4	2	1.1	1.6	0.5	0.88	0.9	0	0	0	0	0	0
6/17/2024 13:54	42701	AUGU_T1	82	85	3	1.74	1.46	-0.28	0	0	0	0	0	0	0	0
6/17/2024 13:54	10801	CHHI_T1	25	29	4	0.76	0.53	-0.23	-1.06	-1.12	3	3	0	2100	2100	0
6/17/2024 13:55	46204	DANV_T2	2	9	7	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/17/2024 13:55	46206	DANV_T2	62	77	15	0.77	0.71	-0.06	0	0	0	0	0	0	0	0
6/17/2024 13:55	46203	DANV_T2	0	1	1	0	0	0	-1.31	-1.32	0	0	0	0	0	0
6/17/2024 13:56	56802	BENV_T2	1	0	-1	0.1	0	-0.1	0.69	0.67	0	0	0	0	0	0
6/17/2024 13:56	20402	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 13:56	10805	CHHI_T2	24	59	35	1.06	0.76	-0.3	-0.39	-0.34	1	1	0	600	600	0
6/17/2024 13:56	20401	ASHF_T2	6	7	1	0.97	1.08	0.11	0	0	0	0	0	0	0	0
6/17/2024 13:56	46204	DANV_T2	2	9	7	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/17/2024 13:56	20403	ASHF_T2	0	16	16	0	0.45	0.45	1.66	1.71	0	0	0	0	0	0
6/17/2024 13:56	46203	DANV_T2	0	1	1	0	0	0	-1.31	-1.32	0	0	0	0	0	0
6/17/2024 13:56	46206	DANV_T2	62	77	15	0.77	0.71	-0.06	0	0	0	0	0	0	0	0
6/17/2024 13:57	56803	BENV_T1	8	9	1	0.91	0.91	0	0.59	0.62	1	1	0	600	600	0
6/17/2024 13:57	56801	BENV_T1	1	3	2	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
6/17/2024 13:59	64202	KINZ_T1	4	1	-3	0.15	0	-0.15	1.4	0.84	0	0	0	0	0	0
6/17/2024 13:59	64203	KINZ_T1	3	2	-1	1.73	1.85	0.12	0	0	0	0	0	0	0	0
6/17/2024 13:59	64201	KINZ_T1	4	11	7	0.35	0.37	0.02	0	0	0	0	0	0	0	0
6/17/2024 13:59	64204	KINZ_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/17/2024 14:00	64204	KINZ_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
6/17/2024 14:00	64202	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/17/2024 14:00	64201	KINZ_T1	7	28	21	0.44	0.36	-0.08	0	0	0	0	0	0	0	0
6/17/2024 14:00	64203	KINZ_T1	2	3	1	2.45	1.85	-0.6	0.81	0.64	3	3	0	2100	2100	0
6/17/2024 14:02	54701	NEBL_T1	1	0	-1	0.1	0	-0.1	0	0	1	1	0	600	600	0
6/17/2024 14:02	64201	KINZ_T1	7	28	21	0.44	0.36	-0.08	0	0	0	0	0	0	0	0
6/17/2024 14:02	64203	KINZ_T1	2	3	1	2.45	1.85	-0.6	0.81	0.64	3	3	0	2100	2100	0
6/17/2024 14:02	48301	ORWI_T1	41	15	-26	0.19	0.85	0.66	0.1	0.01	1	1	0	900	900	0
6/17/2024 14:02	64202	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/17/2024 14:02	64204	KINZ_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
6/17/2024 14:06	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 14:06	57401	SPAN_T1	2	48	46	0.1	0.64	0.54	-0.51	-0.39	1	1	0	600	600	0
6/17/2024 14:07	55103	WERT_T1	1	2	1	5.9	4.4	-1.5	0	0	0	0	0	0	0	0
6/17/2024 14:07	55101	WERT_T1	2	19	17	0.4	0.43	0.03	-1.62	-1.46	4	4	0	3300	3300	0
6/17/2024 14:08	55103	WERT_T1	1	2	1	5.9	4.4	-1.5	0	0	0	0	0	0	0	0
6/17/2024 14:08	55101	WERT_T1	2	19	17	0.4	0.43	0.03	-1.62	-1.46	4	4	0	3300	3300	0
6/17/2024 14:09	67401	WAKE_T2	0	11	11	0	0.29	0.29	0	0	0	0	0	0	0	0
6/17/2024 14:09	46101	MACI_T2	0	0	0	0	0	0	-1.18	-1.36	2	2	0	2400	2400	0
6/17/2024 14:09	55101	WERT_T1	2	19	17	0.4	0.43	0.03	-1.62	-1.46	4	4	0	3300	3300	0
6/17/2024 14:09	67402	WAKE_T2	1	0	-1	0.5	0	-0.5	1.22	1.23	1	1	0	600	600	0
6/17/2024 14:09	55103	WERT_T1	1	2	1	5.9	4.4	-1.5	0	0	0	0	0	0	0	0
6/17/2024 14:10	46206	DANV_T2	65	80	15	0.76	0.75	-0.01	3.26	3.29	1	1	0	1200	1200	0
6/17/2024 14:10	55103	WERT_T1	1	2	1	5.9	4.4	-1.5	0	0	0	0	0	0	0	0
6/17/2024 14:10	46204	DANV_T2	4	22	18	0.25	0.33	0.08	0	0	0	0	0	0	0	0
6/17/2024 14:10	46203	DANV_T2	0	1	1	0	0.1	0.1	-1.32	-1.29	0	0	0	0	0	0
6/17/2024 14:10	55101	WERT_T1	2	19	17	0.4	0.43	0.03	-1.62	-1.46	4	4	0	3300	3300	0
6/17/2024 14:11	55101	WERT_T1	2	19	17	0.4	0.43	0.03	-1.62	-1.46	4	4	0	3300	3300	0
6/17/2024 14:11	53502	EVIL_T2	2	4	2	0.65	0.75	0.1	0	0	0	0	0	0	0	0
6/17/2024 14:11	53501	EVIL_T2	4	3	-1	0.25	0.3	0.05	-1.1	-1.12	5	5	0	2900	2900	0
6/17/2024 14:11	55103	WERT_T1	1	2	1	5.9	4.4	-1.5	0	0	0	0	0	0	0	0
6/17/2024 14:12	67401	WAKE_T2	0	11	11	0	0.29	0.29	0	0	0	0	0	0	0	0
6/17/2024 14:12	67402	WAKE_T2	1	0	-1	0.5	0	-0.5	1.22	1.23	1	1	0	600	600	0
6/17/2024 14:13	53502	EVIL_T2	2	4	2	0.65	0.75	0.1	0	0	0	0	0	0	0	0
6/17/2024 14:13	53501	EVIL_T2	4	3	-1	0.25	0.3	0.05	-1.1	-1.12	5	5	0	2900	2900	0
6/17/2024 14:14	12701	MACU_T1	0	0	0	0	0	0	-0.75	-0.74	1	1	0	1200	1200	0
6/17/2024 14:15	22901	HARW_T1	1	1	0	0.2	0.3	0.1	0.12	-0.13	1	1	0	1200	1200	0
6/17/2024 14:15	12701	MACU_T1	0	0	0	0	0	0	-0.75	-0.74	1	1	0	1200	1200	0
6/17/2024 14:15	22903	HARW_T1	2	1	-1	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/17/2024 14:16	22903	HARW_T1	2	1	-1	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/17/2024 14:16	64203	KINZ_T1	2	3	1	1.85	1.9	0.05	0.64	0.69	3	3	0	2100	2100	0
6/17/2024 14:16	22901	HARW_T1	1	1	0	0.2	0.3	0.1	0.12	-0.13	1	1	0	1200	1200	0
6/17/2024 14:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 14:16	64204	KINZ_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
6/17/2024 14:16	64902	MILL_T2	0	0	0	0	0	0	-0.4	-0.39	1	1	0	900	900	0
6/17/2024 14:16	64201	KINZ_T1	7	35	28	0.43	0.51	0.08	0	0	0	0	0	0	0	0
6/17/2024 14:16	12701	MACU_T1	0	0	0	0	0	0	-0.75	-0.74	1	1	0	1200	1200	0
6/17/2024 14:17	12701	MACU_T1	0	0	0	0	0	0	-0.75	-0.74	1	1	0	1200	1200	0
6/17/2024 14:18	44203	POIN_T2	6	5	-1	3.25	1.16	-2.09	0.15	0.13	2	2	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/17/2024 14:18	52402	GRPA_T2	7	16	9	0.57	0.58	0.01	0	0	0	0	0	0	0	0
6/17/2024 14:18	65401	MARI_T1	13	17	4	1.95	1.93	-0.02	0	0	0	0	0	0	0	0
6/17/2024 14:18	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 14:18	52403	GRPA_T2	31	30	-1	0.84	0.64	-0.2	0.05	0.06	0	0	0	0	0	0
6/17/2024 14:18	65402	MARI_T1	4	6	2	0.38	0.73	0.35	0	0	0	0	0	0	0	0
6/17/2024 14:19	48301	ORWI_T1	8	15	7	0.63	0.82	0.19	0.01	-0.1	1	1	0	900	900	0
6/17/2024 14:21	63403	HONY_T2	1	1	0	0.2	0.9	0.7	-0.83	-0.83	1	1	0	600	600	0
6/17/2024 14:21	63402	HONY_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/17/2024 14:21	48301	ORWI_T1	8	15	7	0.63	0.82	0.19	0.01	-0.1	1	1	0	900	900	0
6/17/2024 14:21	44203	POIN_T2	6	5	-1	3.25	1.16	-2.09	0.13	0.27	2	2	0	2100	2100	0
6/17/2024 14:22	57401	SPAN_T1	12	48	36	0.65	0.49	-0.16	-0.36	-0.83	1	2	1	600	1500	900
6/17/2024 14:22	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 14:22	49804	UNIV_T1	0	0	0	0	0	0	2.12	2.18	0	0	0	0	0	0
6/17/2024 14:24	11804	FRAN_T1	61	113	52	0.75	0.62	-0.13	1.88	1.86	0	0	0	0	0	0
6/17/2024 14:24	45502	DERR_T2	0	91	91	0	0.39	0.39	0	0	0	0	0	0	0	0
6/17/2024 14:24	45501	DERR_T2	6	12	6	0.48	0.48	0	1.41	1.41	2	2	0	1800	1800	0
6/17/2024 14:25	45501	DERR_T2	6	12	6	0.48	0.48	0	1.41	1.41	2	2	0	1800	1800	0
6/17/2024 14:25	46206	DANV_T2	77	79	2	0.79	0.64	-0.15	3.29	3.25	1	1	0	1200	1200	0
6/17/2024 14:25	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 14:25	46203	DANV_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/17/2024 14:25	44801	EDAN_T2	1	1	0	2.5	1	-1.5	1.03	1.04	0	0	0	0	0	0
6/17/2024 14:25	45502	DERR_T2	0	91	91	0	0.39	0.39	-0.02	0.42	1	1	0	300	300	0
6/17/2024 14:25	46204	DANV_T2	8	21	13	0.41	0.16	-0.25	0	0	0	0	0	0	0	0
6/17/2024 14:27	45502	DERR_T2	0	91	91	0	0.39	0.39	0	0	0	0	0	0	0	0
6/17/2024 14:27	45501	DERR_T2	6	12	6	0.48	0.48	0	4.23	4.23	6	6	0	5400	5400	0
6/17/2024 14:27	62102	ELAN_T1	0	0	0	0	0	0	-0.37	-0.28	0	0	0	0	0	0
6/17/2024 14:28	45501	DERR_T2	6	12	6	0.48	0.48	0	1.41	1.41	2	2	0	1800	1800	0
6/17/2024 14:28	45502	DERR_T2	0	91	91	0	0.39	0.39	0	0	0	0	0	0	0	0
6/17/2024 14:29	60903	DONG_T2	3	0	-3	0.53	0	-0.53	0	0	0	0	0	0	0	0
6/17/2024 14:29	60901	DONG_T2	7	8	1	0.33	0.48	0.15	0	0	0	0	0	0	0	0
6/17/2024 14:29	60902	DONG_T2	2	1	-1	0.5	0	-0.5	0.68	1.31	0	0	0	0	0	0
6/17/2024 14:30	44801	EDAN_T2	1	1	0	1.1	1	-0.1	1.03	1.04	0	0	0	0	0	0
6/17/2024 14:30	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 14:31	64203	KINZ_T1	3	3	0	1.73	1.9	0.17	0.69	0.58	3	3	0	2100	2100	0
6/17/2024 14:31	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.34	1	1	0	600	600	0
6/17/2024 14:31	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 14:31	64204	KINZ_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/17/2024 14:31	64201	KINZ_T1	28	21	-7	0.54	0.44	-0.1	0	0	0	0	0	0	0	0
6/17/2024 14:32	40901	JESH_T1	1	1	0	2.3	2.1	-0.2	0	0	0	0	0	0	0	0
6/17/2024 14:32	40902	JESH_T1	2	4	2	0.35	0	-0.35	-0.48	-0.62	3	3	0	1800	1800	0
6/17/2024 14:37	14404	SSLA_T1	1	1	0	2.9	3.1	0.2	0	0	0	0	0	0	0	0
6/17/2024 14:37	55103	WERT_T1	2	2	0	5.7	4.3	-1.4	0	0	0	0	0	0	0	0
6/17/2024 14:37	14403	SSLA_T1	2	2	0	0.2	0	-0.2	1.08	1.12	1	1	0	600	600	0
6/17/2024 14:37	55101	WERT_T1	19	17	-2	0.49	0.39	-0.1	-1.43	-1.51	4	4	0	3300	3300	0
6/17/2024 14:39	10705	CATA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/17/2024 14:39	10701	CATA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 14:39	10702	CATA_T2	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
6/17/2024 14:40	55103	WERT_T1	2	2	0	5.7	4.3	-1.4	0	0	0	0	0	0	0	0
6/17/2024 14:40	55101	WERT_T1	19	17	-2	0.49	0.39	-0.1	-2.87	-3.02	8	8	0	6600	6600	0
6/17/2024 14:41	24702	FLND_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/17/2024 14:41	55101	WERT_T1	19	17	-2	0.49	0.39	-0.1	-1.43	-1.51	4	4	0	3300	3300	0
6/17/2024 14:41	24701	FLND_T2	9	0	-9	0.88	0	-0.88	0.56	0.57	0	0	0	0	0	0
6/17/2024 14:41	55103	WERT_T1	2	2	0	5.7	4.3	-1.4	0	0	0	0	0	0	0	0
6/17/2024 14:43	52402	GRPA_T2	4	16	12	0.58	0.64	0.06	0	0	0	0	0	0	0	0
6/17/2024 14:43	52403	GRPA_T2	20	32	12	0.72	0.64	-0.08	0	0	0	0	0	0	0	0
6/17/2024 14:43	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 14:43	52404	GRPA_T2	0	0	0	0	0	0	-0.49	-0.28	0	0	0	0	0	0
6/17/2024 14:44	53501	EVIL_T2	1	2	1	0.2	0.3	0.1	-0.96	-1.2	5	5	0	2900	2900	0
6/17/2024 14:44	53502	EVIL_T2	2	4	2	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
6/17/2024 14:45	61703	ELIZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 14:45	61701	ELIZ_T1	0	2	2	0	0.5	0.5	1.38	1.14	0	0	0	0	0	0
6/17/2024 14:45	20601	GRWO_T2	89	112	23	0.83	0.57	-0.26	0.6	0.59	0	0	0	0	0	0
6/17/2024 14:47	40902	JESH_T1	4	0	-4	0.53	0	-0.53	-0.62	-1.14	3	3	0	1800	1800	0
6/17/2024 14:47	64201	KINZ_T1	21	8	-13	0.42	0.55	0.13	0	0	0	0	0	0	0	0
6/17/2024 14:47	64204	KINZ_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/17/2024 14:47	48301	ORWI_T1	9	42	33	0.66	0.34	-0.32	-0.17	-0.23	1	1	0	900	900	0
6/17/2024 14:47	55003	NEWP_T2	0	0	0	0	0	0	-0.23	-0.21	1	1	0	600	600	0
6/17/2024 14:47	40901	JESH_T1	1	1	0	2.3	2.1	-0.2	0	0	0	0	0	0	0	0
6/17/2024 14:47	64203	KINZ_T1	2	7	5	1.9	1.9	0	0.58	0.53	3	3	0	2100	2100	0
6/17/2024 14:49	64101	REFR_T1	14	14	0	1.41	0.93	-0.48	-0.03	0	0	0	0	0	0	0
6/17/2024 14:49	48302	ORWI_T2	28	63	35	0.78	0.54	-0.24	0	0	0	0	0	0	0	0
6/17/2024 14:49	48303	ORWI_T2	5	5	0	0.74	0.6	-0.14	1.43	1.48	0	0	0	0	0	0
6/17/2024 14:49	61701	ELIZ_T1	0	2	2	0	0.5	0.5	1.38	1.14	0	0	0	0	0	0
6/17/2024 14:49	48301	ORWI_T1	9	42	33	0.66	0.34	-0.32	-0.17	-0.23	1	1	0	900	900	0
6/17/2024 14:49	60801	BUCK_T1	0	0	0	0	0	0	-0.95	-0.03	1	1	0	600	600	0
6/17/2024 14:49	61703	ELIZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 14:50	64101	REFR_T1	14	14	0	1.41	0.93	-0.48	-0.05	0	0	0	0	0	0	0
6/17/2024 14:51	48301	ORWI_T1	9	42	33	0.66	0.34	-0.32	-0.17	-0.23	1	1	0	900	900	0
6/17/2024 14:51	67402	WAKE_T2	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
6/17/2024 14:51	67401	WAKE_T2	3	1	-2	0.27	0.5	0.23	0	0	0	0	0	0	0	0
6/17/2024 14:52	67903	WNHO_T1	0	0	0	0	0	0	1.43	1.5	1	1	0	1200	1200	0
6/17/2024 14:53	64101	REFR_T1	14	14	0	1.41	0.93	-0.48	0	0.03	0	0	0	0	0	0
6/17/2024 14:54	20403	ASHF_T2	7	20	13	0.51	0.2	-0.31	1.61	0.7	0	0	0	0	0	0
6/17/2024 14:54	20402	ASHF_T2	10	10	0	0.31	2.82	2.51	0	0	0	0	0	0	0	0
6/17/2024 14:54	20401	ASHF_T2	6	6	0	0.72	1.1	0.38	0	0	0	0	0	0	0	0
6/17/2024 14:58	63501	HEID_TBK1-2	0	0	0	0	0	0	0.99	1	1	1	0	900	900	0
6/17/2024 14:59	61701	ELIZ_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
6/17/2024 14:59	61703	ELIZ_T1	0	1	1	0	0	0	-2.28	-2.25	2	2	0	2100	2100	0
6/17/2024 15:00	61703	ELIZ_T1	0	14	14	0	0.1	0.1	-6.83	-6.75	6	6	0	6300	6300	0
6/17/2024 15:00	61701	ELIZ_T1	1	2	1	0.8	0.2	-0.6	1.14	1.1	0	0	0	0	0	0
6/17/2024 15:00	52004	LING_T2	0	0	0	0	0	0	0.68	0.53	0	0	0	0	0	0
6/17/2024 15:00	41204	KENM_T2	0	0	0	0	0	0	0.87	0.89	0	0	0	0	0	0
6/17/2024 15:01	63401	HONY_T1	0	0	0	0	0	0	0.66	0.77	1	1	0	600	600	0
6/17/2024 15:01	61701	ELIZ_T1	1	2	1	0.8	0.2	-0.6	1.14	1.1	0	0	0	0	0	0
6/17/2024 15:01	25501	MADI_T1	2	2	0	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
6/17/2024 15:01	47101	MARL_T1	38	43	5	1.03	0.95	-0.08	-0.94	-1.06	2	2	0	1200	1200	0
6/17/2024 15:01	61703	ELIZ_T1	0	14	14	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 15:01	20601	GRWO_T2	104	84	-20	0.7	0.44	-0.26	0.59	0.56	0	0	0	0	0	0
6/17/2024 15:01	25503	MADI_T1	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
6/17/2024 15:01	52002	LING_T2	0	0	0	0	0	0	0.2	0.27	1	1	0	900	900	0
6/17/2024 15:04	61703	ELIZ_T1	0	14	14	0	0.1	0.1	-2.28	-2.25	2	2	0	2100	2100	0
6/17/2024 15:04	61701	ELIZ_T1	1	2	1	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
6/17/2024 15:05	64101	REFR_T1	13	11	-2	0.79	0.69	-0.1	0	0.03	0	0	0	0	0	0
6/17/2024 15:06	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/17/2024 15:06	56501	ROCK_T2	4	7	3	0.45	0.37	-0.08	-1.52	-1.5	0	0	0	0	0	0
6/17/2024 15:09	29402	BELT_T1	2	1	-1	4.45	8.8	4.35	0	0	0	0	0	0	0	0
6/17/2024 15:09	29401	BELT_T1	3	4	1	0.13	0.25	0.12	0	0	1	1	0	900	900	0
6/17/2024 15:10	45501	DERR_T2	20	40	20	0.52	0.45	-0.07	0	0	0	0	0	0	0	0
6/17/2024 15:10	45502	DERR_T2	126	120	-6	0.49	0.4	-0.09	0.37	0.34	1	1	0	300	300	0
6/17/2024 15:12	45501	DERR_T2	20	40	20	0.52	0.45	-0.07	0	0	0	0	0	0	0	0
6/17/2024 15:12	45502	DERR_T2	126	120	-6	0.49	0.4	-0.09	0.37	0.34	1	1	0	300	300	0
6/17/2024 15:14	45501	DERR_T2	20	40	20	0.52	0.45	-0.07	1.48	1.45	2	2	0	1800	1800	0
6/17/2024 15:14	45502	DERR_T2	126	120	-6	0.49	0.4	-0.09	0	0	0	0	0	0	0	0
6/17/2024 15:15	47101	MARL_T1	37	50	13	1.3	1.03	-0.27	-1.59	-1.49	3	3	0	1800	1800	0
6/17/2024 15:16	61703	ELIZ_T1	1	22	21	0.1	0.35	0.25	0	0	0	0	0	0	0	0
6/17/2024 15:16	61701	ELIZ_T1	1	1	0	0.2	0.2	0	1.1	1.32	0	0	0	0	0	0
6/17/2024 15:17	42902	MIDD_T2	45	28	-17	0.86	0.46	-0.4	-0.14	-0.48	2	1	-1	900	600	-300
6/17/2024 15:17	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 15:17	47101	MARL_T1	37	50	13	1.3	1.03	-0.27	-0.53	-0.5	1	1	0	600	600	0
6/17/2024 15:17	64701	LITI_T1	10	10	0	1.47	1.07	-0.4	0.3	0.31	1	1	0	900	900	0
6/17/2024 15:17	42901	MIDD_T2	3	2	-1	1.37	0.95	-0.42	0	0	0	0	0	0	0	0
6/17/2024 15:18	42902	MIDD_T2	45	28	-17	0.86	0.46	-0.4	-0.14	-0.48	2	1	-1	900	600	-300
6/17/2024 15:18	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 15:18	42901	MIDD_T2	3	2	-1	1.37	0.95	-0.42	0	0	0	0	0	0	0	0
6/17/2024 15:19	42901	MIDD_T2	3	2	-1	1.37	0.95	-0.42	0	0	0	0	0	0	0	0
6/17/2024 15:19	42902	MIDD_T2	45	28	-17	0.86	0.46	-0.4	-0.14	-0.48	2	1	-1	900	600	-300
6/17/2024 15:19	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 15:19	56503	SMAN_T2	0	0	0	0	0	0	1.18	1.19	0	0	0	0	0	0
6/17/2024 15:19	66504	SMAN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/17/2024 15:19	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 15:19	66501	SMAN_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
6/17/2024 15:20	44203	POIN_T2	6	7	1	3.42	2	-1.42	0	0	0	0	0	0	0	0
6/17/2024 15:20	12701	MACU_T1	0	6	6	0	0.65	0.65	-0.71	-0.7	1	1	0	1200	1200	0
6/17/2024 15:20	47101	MARL_T1	37	50	13	1.3	1.03	-0.27	-0.53	-0.5	1	1	0	600	600	0
6/17/2024 15:20	44202	POIN_T2	0	0	0	0	0	0	-0.78	-0.76	2	2	0	1800	1800	0
6/17/2024 15:23	47403	PENS_T1	2	1	-1	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
6/17/2024 15:23	47402	PENS_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 15:23	47401	PENS_T1	4	7	3	0.5	0.3	-0.2	4.71	4.84	0	0	0	0	0	0
6/17/2024 15:24	46204	DANV_T2	9	17	8	0.36	0.26	-0.1	0	0	0	0	0	0	0	0
6/17/2024 15:24	46206	DANV_T2	75	78	3	0.57	0.57	0	0	0	0	0	0	0	0	0
6/17/2024 15:24	46203	DANV_T2	0	0	0	0	0	0	-1.18	-1.17	0	0	0	0	0	0
6/17/2024 15:25	46203	DANV_T2	0	0	0	0	0	0	-1.18	-1.17	0	0	0	0	0	0
6/17/2024 15:25	46206	DANV_T2	75	78	3	0.57	0.57	0	0	0	0	0	0	0	0	0
6/17/2024 15:25	46204	DANV_T2	9	17	8	0.36	0.26	-0.1	0	0	0	0	0	0	0	0
6/17/2024 15:25	42701	AUGU_T1	86	95	9	2.19	2.38	0.19	0	0	0	0	0	0	0	0
6/17/2024 15:26	24102	EHAZ_T1	1	2	1	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
6/17/2024 15:26	24105	EHAZ_T1	4	4	0	5.95	5.68	-0.27	-1.39	-1.35	1	1	0	1200	1200	0
6/17/2024 15:26	24101	EHAZ_T1	36	15	-21	0.98	0.23	-0.75	0	0	0	0	0	0	0	0
6/17/2024 15:29	61703	ELIZ_T1	1	22	21	0.1	0.35	0.25	0	0	0	0	0	0	0	0
6/17/2024 15:29	64204	KINZ_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/17/2024 15:29	64201	KINZ_T1	7	20	13	0.67	0.43	-0.24	0	0	0	0	0	0	0	0
6/17/2024 15:29	64203	KINZ_T1	6	6	0	0.83	1.9	1.07	0.55	0.43	3	3	0	2100	2100	0
6/17/2024 15:29	61701	ELIZ_T1	1	1	0	0.2	0.2	0	1.32	1.31	0	0	0	0	0	0
6/17/2024 15:34	60501	NMAN_T2	3	3	0	4.03	3.77	-0.26	0	0	0	0	0	0	0	0
6/17/2024 15:34	60502	NMAN_T2	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
6/17/2024 15:34	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 15:35	66901	SHIL_T2	0	0	0	0	0	0	-1.41	-1.44	0	0	0	0	0	0
6/17/2024 15:35	64101	REFR_T1	9	3	-6	0.69	0	-0.69	0.09	0.13	0	0	0	0	0	0
6/17/2024 15:36	64101	REFR_T1	9	3	-6	0.69	0	-0.69	0.13	0.16	0	0	0	0	0	0
6/17/2024 15:41	46602	LACR_T1	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
6/17/2024 15:43	63501	HEID_TBK1-2	0	0	0	0	0	0	0.6	0.56	1	1	0	900	900	0
6/17/2024 15:43	46602	LACR_T1	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
6/17/2024 15:45	64201	KINZ_T1	11	18	7	0.36	0.3	-0.06	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/17/2024 15:45	64204	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/17/2024 15:45	64203	KINZ_T1	2	7	5	2.1	0.88	-1.22	0.43	0.53	3	3	0	2100	2100	0
6/17/2024 15:46	63501	HEID_TBK1-2	0	0	0	0	0	0	0.6	0.56	1	1	0	900	900	0
6/17/2024 15:46	52004	LING_T2	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
6/17/2024 15:46	52002	LING_T2	6	7	1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
6/17/2024 15:49	11102	EGYP_T1	4	5	1	1.03	0.8	-0.23	0	0	0	0	0	0	0	0
6/17/2024 15:49	11104	EGYP_T1	5	7	2	1.52	1.03	-0.49	0	0	0	0	0	0	0	0
6/17/2024 15:49	11103	EGYP_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
6/17/2024 15:52	24001	WIBA_T1	11	6	-5	1.08	0.17	-0.91	0.93	0.94	0	0	0	0	0	0
6/17/2024 15:54	10701	CATA_T2	1	4	3	0.1	0.53	0.43	0	0	0	0	0	0	0	0
6/17/2024 15:54	10705	CATA_T2	0	1	1	0	0.1	0.1	-1.13	-1.11	1	1	0	900	900	0
6/17/2024 15:56	57401	SPAN_T1	12	53	41	0.63	0.48	-0.15	-0.68	-0.79	2	2	0	1500	1500	0
6/17/2024 15:56	57403	SPAN_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 15:57	10102	ALLE_T2	1	1	0	7.7	7.8	0.1	0	0	0	0	0	0	0	0
6/17/2024 15:57	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 15:58	53902	HALI_T2	2	2	0	2.2	2.2	0	0	0	0	0	0	0	0	0
6/17/2024 15:58	53903	HALI_T2	3	2	-1	0.53	0.7	0.17	0.12	0.12	0	0	0	0	0	0
6/17/2024 15:59	47101	MARL_T1	48	111	63	1.16	1.14	-0.02	-0.93	-1.03	2	2	0	1200	1200	0
6/17/2024 15:59	41801	GOCI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/17/2024 16:00	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 16:01	47101	MARL_T1	103	89	-14	0.95	1.1	0.15	-0.46	-0.51	1	1	0	600	600	0
6/17/2024 16:02	61704	ELIZ_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 16:02	53902	HALI_T2	1	2	1	4.2	2.6	-1.6	0	0	0	0	0	0	0	0
6/17/2024 16:02	61702	ELIZ_T2	4	6	2	0.7	0.43	-0.27	-1.83	-1.89	2	2	0	1500	1500	0
6/17/2024 16:02	53903	HALI_T2	2	2	0	0.7	0.8	0.1	0.12	0.12	0	0	0	0	0	0
6/17/2024 16:04	60501	NMAN_T2	3	3	0	3.53	3.57	0.04	0	0	0	0	0	0	0	0
6/17/2024 16:04	60502	NMAN_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
6/17/2024 16:07	64101	REFR_T1	3	3	0	0.2	0.23	0.03	0.18	0.18	0	0	0	0	0	0
6/17/2024 16:08	64101	REFR_T1	3	3	0	0.2	0.23	0.03	0.18	0.18	0	0	0	0	0	0
6/17/2024 16:10	20601	GRWO_T2	14	62	48	0.41	0.41	0	0	0	0	0	0	0	0	0
6/17/2024 16:10	20603	GRWO_T2	0	0	0	0	0	0	-0.27	-0.28	1	1	0	900	900	0
6/17/2024 16:12	45501	DERR_T2	2	6	4	0.5	0.25	-0.25	1.29	1.11	2	2	0	1800	1800	0
6/17/2024 16:12	45502	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 16:12	10805	CHHI_T2	13	38	25	1.98	0.88	-1.1	-0.61	-0.61	1	1	0	600	600	0
6/17/2024 16:13	20603	GRWO_T2	0	0	0	0	0	0	-0.27	-0.28	1	1	0	900	900	0
6/17/2024 16:13	10805	CHHI_T2	13	38	25	1.98	0.88	-1.1	-0.61	-0.61	1	1	0	600	600	0
6/17/2024 16:13	20601	GRWO_T2	14	62	48	0.41	0.41	0	0	0	0	0	0	0	0	0
6/17/2024 16:14	42902	MIDD_T2	31	8	-23	0.61	0.3	-0.31	-0.64	-0.69	1	1	0	600	600	0
6/17/2024 16:14	42903	MIDD_T2	2	4	2	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
6/17/2024 16:14	42901	MIDD_T2	3	3	0	1.33	1	-0.33	0	0	0	0	0	0	0	0
6/17/2024 16:15	42903	MIDD_T2	2	4	2	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
6/17/2024 16:15	42902	MIDD_T2	3	46	43	0.3	0.33	0.03	-0.64	-0.69	1	1	0	600	600	0
6/17/2024 16:15	42901	MIDD_T2	3	4	1	0.93	1	0.07	0	0	0	0	0	0	0	0
6/17/2024 16:15	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 16:16	64202	KINZ_T1	0	1	1	0	0	0	0.84	0.89	0	0	0	0	0	0
6/17/2024 16:16	64204	KINZ_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/17/2024 16:16	64203	KINZ_T1	6	5	-1	0.88	1	0.12	0	0	0	0	0	0	0	0
6/17/2024 16:16	64201	KINZ_T1	3	10	7	0.37	0.5	0.13	0	0	0	0	0	0	0	0
6/17/2024 16:22	40602	PIGR_T1	1	3	2	1.1	1.3	0.2	0	0	1	1	0	600	600	0
6/17/2024 16:22	57401	SPAN_T1	43	5	-38	0.43	0.3	-0.13	-1.26	-1.36	2	2	0	1500	1500	0
6/17/2024 16:22	40603	PIGR_T1	24	37	13	0.36	0.45	0.09	0	0	0	0	0	0	0	0
6/17/2024 16:22	64802	MONE_T2	95	139	44	1.53	1.56	0.03	-0.01	-0.01	0	0	0	0	0	0
6/17/2024 16:22	40601	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 16:22	64801	MONE_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 16:22	57403	SPAN_T1	2	9	7	0.15	0.27	0.12	0	0	0	0	0	0	0	0
6/17/2024 16:23	46301	ROHR_T1	59	105	46	0.26	0.32	0.06	0	0	0	0	0	0	0	0
6/17/2024 16:23	46302	ROHR_T1	4	0	-4	1.2	2.15	0.95	0.45	0.46	0	0	0	0	0	0
6/17/2024 16:23	57403	SPAN_T1	2	9	7	0.15	0.27	0.12	0	0	0	0	0	0	0	0
6/17/2024 16:23	57401	SPAN_T1	43	5	-38	0.43	0.3	-0.13	-1.26	-1.36	2	2	0	1500	1500	0
6/17/2024 16:24	64101	REFR_T1	3	4	1	0.43	0.23	-0.2	0.18	0.18	0	0	0	0	0	0
6/17/2024 16:24	57403	SPAN_T1	2	9	7	0.15	0.27	0.12	0	0	0	0	0	0	0	0
6/17/2024 16:24	53501	EVIL_T2	2	1	-1	0.65	1.3	0.65	-1.45	-1.78	5	4	-1	2900	2700	-200
6/17/2024 16:24	57401	SPAN_T1	43	5	-38	0.43	0.3	-0.13	-1.26	-1.36	2	2	0	1500	1500	0
6/17/2024 16:25	53501	EVIL_T2	2	1	-1	0.65	1.3	0.65	-1.45	-1.78	5	4	-1	2900	2700	-200
6/17/2024 16:25	46302	ROHR_T1	4	4	0	1.2	2.15	0.95	0.45	0.46	0	0	0	0	0	0
6/17/2024 16:25	60801	BUCK_T1	0	0	0	0	0	0	-0.79	-0.37	1	1	0	600	600	0
6/17/2024 16:25	57401	SPAN_T1	43	5	-38	0.43	0.3	-0.13	-1.26	-1.36	2	2	0	1500	1500	0
6/17/2024 16:25	46301	ROHR_T1	59	105	46	0.26	0.32	0.06	0	0	0	0	0	0	0	0
6/17/2024 16:25	57403	SPAN_T1	2	9	7	0.15	0.27	0.12	0	0	0	0	0	0	0	0
6/17/2024 16:26	57401	SPAN_T1	43	5	-38	0.43	0.3	-0.13	-1.26	-1.36	2	2	0	1500	1500	0
6/17/2024 16:26	57403	SPAN_T1	2	9	7	0.15	0.27	0.12	0	0	0	0	0	0	0	0
6/17/2024 16:29	60801	BUCK_T1	0	0	0	0	0	0	-0.79	-0.37	1	1	0	600	600	0
6/17/2024 16:29	67103	SPRI_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
6/17/2024 16:38	42701	AUGU_T1	108	123	15	2.47	2.54	0.07	0	0	0	0	0	0	0	0
6/17/2024 16:38	42201	SHEN_T2	0	0	0	0	0	0	0.34	0.32	1	1	0	600	600	0
6/17/2024 16:39	42701	AUGU_T1	108	123	15	2.47	2.54	0.07	0	0	0	0	0	0	0	0
6/17/2024 16:39	56801	BENV_T1	3	3	0	0.6	0.8	0.2	0.06	0.07	1	1	0	600	600	0
6/17/2024 16:39	67103	SPRI_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
6/17/2024 16:39	64101	REFR_T1	3	4	1	0.23	0	-0.23	0.18	0.19	0	0	0	0	0	0
6/17/2024 16:39	56803	BENV_T1	6	8	2	1.95	1.73	-0.22	0	0	0	0	0	0	0	0
6/17/2024 16:40	43202	MVIL_T2	3	1	-2	0.37	0.4	0.03	-0.31	-0.32	0	0	0	0	0	0
6/17/2024 16:40	21206	ECAR_T2	12	16	4	1.15	1.53	0.38	0.29	0.29	0	0	0	0	0	0
6/17/2024 16:40	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 16:40	56801	BENV_T1	3	3	0	0.6	0.8	0.2	0.18	0.22	3	3	0	1800	1800	0
6/17/2024 16:40	56803	BENV_T1	6	8	2	1.95	1.73	-0.22	0	0	0	0	0	0	0	0
6/17/2024 16:41	56803	BENV_T1	6	8	2	1.95	1.73	-0.22	0	0	0	0	0	0	0	0
6/17/2024 16:41	56801	BENV_T1	3	3	0	0.6	0.8	0.2	0.06	0.07	1	1	0	600	600	0
6/17/2024 16:43	42701	AUGU_T1	108	123	15	2.47	2.54	0.07	0	0	0	0	0	0	0	0
6/17/2024 16:43	56803	BENV_T1	6	8	2	1.95	1.73	-0.22	0	0	0	0	0	0	0	0
6/17/2024 16:43	56801	BENV_T1	3	3	0	0.6	0.8	0.2	0.06	0.07	1	1	0	600	600	0
6/17/2024 16:44	56803	BENV_T1	6	8	2	1.95	1.73	-0.22	0	0	0	0	0	0	0	0
6/17/2024 16:44	56801	BENV_T1	3	3	0	0.6	0.8	0.2	0.06	0.07	1	1	0	600	600	0
6/17/2024 16:45	11507	FREE_T2	192	222	30	0.83	0.78	-0.05	1.44	1.33	1	1	0	600	600	0
6/17/2024 16:46	52402	GRPA_T2	80	15	-65	0.58	0.66	0.08	0	0	0	0	0	0	0	0
6/17/2024 16:46	64302	LINC_T2	2	9	7	1.1	0.67	-0.43	1.92	2.13	0	0	0	0	0	0
6/17/2024 16:46	52403	GRPA_T2	90	92	2	1.64	0.78	-0.86	0.35	0.33	0	0	0	0	0	0
6/17/2024 16:46	52401	GRPA_T2	43	93	50	0.5	0.64	0.14	0	0	0	0	0	0	0	0
6/17/2024 16:47	65401	MARI_T1	17	13	-4	2.18	1.63	-0.55	0	0	0	0	0	0	0	0
6/17/2024 16:47	65402	MARI_T1	6	7	1	0.62	0	-0.62	0	0	0	0	0	0	0	0
6/17/2024 16:48	65402	MARI_T1	6	7	1	0.62	0	-0.62	0	0	0	0	0	0	0	0
6/17/2024 16:48	65401	MARI_T1	17	13	-4	2.18	1.63	-0.55	0	0	0	0	0	0	0	0
6/17/2024 16:50	11103	EGYP_T1	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
6/17/2024 16:50	11104	EGYP_T1	7	7	0	1.59	1.42	-0.17	0	0	0	0	0	0	0	0
6/17/2024 16:50	11102	EGYP_T1	11	11	0	0.83	0.74	-0.09	0	0	0	0	0	0	0	0
6/17/2024 16:50	11101	EGYP_T1	0	0	0	0	0	0	-0.07	-0.06	1	1	0	1200	1200	0
6/17/2024 16:51	51401	LYKE_T1	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
6/17/2024 16:52	11104	EGYP_T1	7	7	0	1.59	1.42	-0.17	0	0	0	0	0	0	0	0
6/17/2024 16:52	58702	ROSE_T2	1	1	0	7.6	5.5	-2.1	0	0	0	0	0	0	0	0
6/17/2024 16:52	11103	EGYP_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
6/17/2024 16:52	51401	LYKE_T1	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
6/17/2024 16:52	67503	WEWI_T2	76	56	-20	0.55	0.38	-0.17	-0.89	0.05	0	0	0	0	0	0
6/17/2024 16:52	67502	WEWI_T2	5	13	8	0.66	0.66	0	0	0	0	0	0	0	0	0
6/17/2024 16:52	58706	ROSE_T2	2	2	0	1.5	2.7	1.2	0.51	0.42	1	1	0	600	600	0
6/17/2024 16:52	11102	EGYP_T1	11	11	0	0.83	0.74	-0.09	0	0	0	0	0	0	0	0
6/17/2024 16:52	58705	ROSE_T2	2	3	1	0.35	0.45	0.1	0	0	0	0	0	0	0	0
6/17/2024 16:52	58701	ROSE_T2	0	5	5	0	0.13	0.13	0	0	0	0	0	0	0	0
6/17/2024 16:53	64802	MONE_T2	139	88	-51	1.78	1.63	-0.15	-0.01	-0.01	0	0	0	0	0	0
6/17/2024 16:53	15001	BLMO_T1	5	14	9	0.56	0.2	-0.36	0	0	0	0	0	0	0	0
6/17/2024 16:53	64801	MONE_T2	5	3	-2	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
6/17/2024 16:54	14403	SSLA_T1	0	1	1	0	0	0	2.38	2.24	2	2	0	1200	1200	0
6/17/2024 16:54	14404	SSLA_T1	2	1	-1	1.55	2.8	1.25	0	0	0	0	0	0	0	0
6/17/2024 16:54	14402	SSLA_T1	4	0	-4	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/17/2024 16:55	67103	SPRI_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
6/17/2024 16:55	12304	LANA_T2	146	151	5	0.95	0.82	-0.13	0	0	0	0	0	0	0	0
6/17/2024 16:55	46001	BERW_T1	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
6/17/2024 16:55	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 16:55	46005	BERW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 16:55	12301	LANA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 16:55	43202	MVIL_T2	1	1	0	0.4	0.3	-0.1	-0.32	-0.33	0	0	0	0	0	0
6/17/2024 16:55	12302	LANA_T2	2	3	1	0.4	0	-0.4	-1.55	-1.54	3	3	0	2700	2700	0
6/17/2024 16:55	12305	LANA_T2	6	19	13	0.75	0.33	-0.42	0	0	0	0	0	0	0	0
6/17/2024 16:56	44301	BEAV_T2	16	25	9	0.76	0.88	0.12	0.8	0.78	1	1	0	600	600	0
6/17/2024 16:57	44301	BEAV_T2	16	25	9	0.76	0.88	0.12	0.8	0.78	1	1	0	600	600	0
6/17/2024 17:03	64201	KINZ_T1	1	5	4	1	0.2	-0.8	0	0	0	0	0	0	0	0
6/17/2024 17:03	64202	KINZ_T1	0	3	3	0	0.4	0.4	0.84	0.92	0	0	0	0	0	0
6/17/2024 17:03	64203	KINZ_T1	2	1	-1	0.95	0.3	-0.65	0	0	0	0	0	0	0	0
6/17/2024 17:04	41902	REED_T1	17	27	10	0.49	0.83	0.34	0	0	0	0	0	0	0	0
6/17/2024 17:04	14404	SSLA_T1	1	1	0	2.8	2.6	-0.2	0	0	0	0	0	0	0	0
6/17/2024 17:04	14401	SSLA_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 17:04	41901	REED_T1	9	10	1	0.34	0.32	-0.02	-0.93	-0.93	1	1	0	900	900	0
6/17/2024 17:04	14403	SSLA_T1	0	1	1	0	0	0	1.19	1.12	1	1	0	600	600	0
6/17/2024 17:06	67103	SPRI_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
6/17/2024 17:07	52402	GRPA_T2	13	13	0	0.78	0.46	-0.32	0	0	0	0	0	0	0	0
6/17/2024 17:07	44301	BEAV_T2	19	44	25	0.89	0.83	-0.06	0.78	0.79	1	1	0	600	600	0
6/17/2024 17:07	52403	GRPA_T2	92	70	-22	1.61	0.78	-0.83	-0.27	0.14	0	0	0	0	0	0
6/17/2024 17:07	46204	DANV_T2	20	24	4	0.27	0.3	0.03	0	0	0	0	0	0	0	0
6/17/2024 17:07	46206	DANV_T2	73	99	26	0.6	0.63	0.03	0	0	0	0	0	0	0	0
6/17/2024 17:07	52401	GRPA_T2	85	80	-5	0.68	0.5	-0.18	0	0	0	0	0	0	0	0
6/17/2024 17:07	46203	DANV_T2	2	4	2	0.55	0.25	-0.3	-1.1	-1.22	0	0	0	0	0	0
6/17/2024 17:09	46005	BERW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 17:09	46001	BERW_T1	0	2	2	0	0	0	0.31	0.3	0	0	0	0	0	0
6/17/2024 17:10	14401	SSLA_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 17:10	64801	MONE_T2	3	9	6	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
6/17/2024 17:10	52402	GRPA_T2	13	13	0	0.78	0.46	-0.32	0	0	0	0	0	0	0	0
6/17/2024 17:10	52401	GRPA_T2	85	80	-5	0.68	0.5	-0.18	0	0	0	0	0	0	0	0
6/17/2024 17:10	64802	MONE_T2	74	160	86	1.64	1.74	0.1	-0.01	-0.01	0	0	0	0	0	0
6/17/2024 17:10	14403	SSLA_T1	0	1	1	0	0	0	1.12	1.17	1	1	0	600	600	0
6/17/2024 17:10	14404	SSLA_T1	1	1	0	2.8	2.6	-0.2	0	0	0	0	0	0	0	0
6/17/2024 17:10	52403	GRPA_T2	92	70	-22	1.61	0.78	-0.83	-0.54	0.28	0	0	0	0	0	0
6/17/2024 17:11	52401	GRPA_T2	85	80	-5	0.68	0.5	-0.18	0	0	0	0	0	0	0	0
6/17/2024 17:11	52402	GRPA_T2	13	13	0	0.78	0.46	-0.32	0	0	0	0	0	0	0	0
6/17/2024 17:11	52403	GRPA_T2	92	70	-22	1.61	0.78	-0.83	-0.27	0.14	0	0	0	0	0	0
6/17/2024 17:12	44301	BEAV_T2	19	44	25	0.89	0.83	-0.06	0.78	0.79	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/17/2024 17:13	64203	KINZ_T1	2	1	-1	0.95	0.3	-0.65	0	0	0	0	0	0	0	0
6/17/2024 17:13	64201	KINZ_T1	1	5	4	1	0.2	-0.8	0.07	0.04	4	4	0	2100	2100	0
6/17/2024 17:13	64202	KINZ_T1	0	3	3	0	0.4	0.4	0.92	1.8	0	0	0	0	0	0
6/17/2024 17:15	61703	ELIZ_T1	109	131	22	0.52	0.55	0.03	-2.09	-2.06	2	2	0	2100	2100	0
6/17/2024 17:15	61701	ELIZ_T1	8	32	24	0.35	0.43	0.08	0	0	0	0	0	0	0	0
6/17/2024 17:19	25402	LAHA_T2	0	0	0	0	0	0	-0.28	-0.37	0	0	0	0	0	0
6/17/2024 17:20	51004	NHAR_T1	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
6/17/2024 17:20	51003	NHAR_T1	0	0	0	0	0	0	-2.05	-2.07	1	1	0	1200	1200	0
6/17/2024 17:21	67602	WARW_T2	1	4	3	0.2	0.1	-0.1	0.44	0.43	2	2	0	1500	1500	0
6/17/2024 17:21	64101	REFR_T1	0	1	1	0	0	0	0.19	0.2	0	0	0	0	0	0
6/17/2024 17:22	56504	ROCK_T2	5	4	-1	0.32	0.5	0.18	0	0	0	0	0	0	0	0
6/17/2024 17:22	56501	ROCK_T2	2	5	3	3.4	0.5	-2.9	-1.29	-1.27	0	0	0	0	0	0
6/17/2024 17:23	56501	ROCK_T2	2	5	3	3.4	0.5	-2.9	-5.18	-5.09	0	0	0	0	0	0
6/17/2024 17:23	56504	ROCK_T2	5	4	-1	0.32	0.5	0.18	0	0	0	0	0	0	0	0
6/17/2024 17:23	61303	EARL_T1	1	1	0	0.1	1.6	1.5	0.29	0.24	0	0	0	0	0	0
6/17/2024 17:24	56501	ROCK_T2	2	5	3	3.4	0.5	-2.9	-1.29	-1.27	0	0	0	0	0	0
6/17/2024 17:24	56504	ROCK_T2	5	4	-1	0.32	0.5	0.18	0	0	0	0	0	0	0	0
6/17/2024 17:25	58203	NEWV_T2	112	109	-3	1.06	0.82	-0.24	-0.54	-0.53	0	0	0	0	0	0
6/17/2024 17:25	67602	WARW_T2	1	4	3	0.2	0.1	-0.1	0.87	0.85	4	4	0	3000	3000	0
6/17/2024 17:26	14204	EALL_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
6/17/2024 17:26	67602	WARW_T2	1	4	3	0.2	0.1	-0.1	0.44	0.43	2	2	0	1500	1500	0
6/17/2024 17:27	14204	EALL_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
6/17/2024 17:32	63401	HONY_T1	0	0	0	0	0	0	0.33	0.32	1	1	0	600	600	0
6/17/2024 17:32	63404	HONY_T1	1	2	1	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
6/17/2024 17:33	63404	HONY_T1	1	2	1	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
6/17/2024 17:33	63401	HONY_T1	0	0	0	0	0	0	0.33	0.32	1	1	0	600	600	0
6/17/2024 17:34	66504	SMAN_T2	10	13	3	0.5	1.1	0.6	0.18	0.2	1	1	0	1200	1200	0
6/17/2024 17:34	66503	SMAN_T2	14	9	-5	0.38	0.64	0.26	0	0	0	0	0	0	0	0
6/17/2024 17:36	57401	SPAN_T1	2	23	21	0.4	0.73	0.33	0	0	0	0	0	0	0	0
6/17/2024 17:36	57403	SPAN_T1	5	33	28	0.62	0.3	-0.32	0.79	0.79	0	0	0	0	0	0
6/17/2024 17:37	57401	SPAN_T1	2	23	21	0.4	0.73	0.33	0	0	0	0	0	0	0	0
6/17/2024 17:37	66503	SMAN_T2	14	9	-5	0.38	0.64	0.26	0	0	0	0	0	0	0	0
6/17/2024 17:37	57403	SPAN_T1	5	33	28	0.62	0.3	-0.32	0.79	1.55	0	0	0	0	0	0
6/17/2024 17:37	66504	SMAN_T2	10	13	3	0.5	1.1	0.6	0.2	0.26	1	1	0	1200	1200	0
6/17/2024 17:38	49803	UNIV_T1	8	15	7	0.26	0.31	0.05	-0.12	-0.19	0	0	0	0	0	0
6/17/2024 17:38	49804	UNIV_T1	13	42	29	0.75	0.77	0.02	0	0	0	0	0	0	0	0
6/17/2024 17:39	51401	LYKE_T1	0	0	0	0	0	0	1.11	2.19	0	0	0	0	0	0
6/17/2024 17:40	40502	CRES_T2	3	21	18	0.2	0.36	0.16	0.83	1.24	0	0	0	0	0	0
6/17/2024 17:40	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 17:41	41303	FISH_T1	8	5	-3	1.53	2.25	0.72	0	0	0	0	0	0	0	0
6/17/2024 17:41	41301	FISH_T1	1	3	2	1.3	0.57	-0.73	-0.3	-0.6	0	0	0	0	0	0
6/17/2024 17:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 17:41	40502	CRES_T2	3	21	18	0.2	0.36	0.16	1.67	2.47	0	0	0	0	0	0
6/17/2024 17:42	41301	FISH_T1	1	3	2	1.3	0.57	-0.73	-0.3	-0.6	0	0	0	0	0	0
6/17/2024 17:42	41303	FISH_T1	8	5	-3	1.53	2.25	0.72	0	0	0	0	0	0	0	0
6/17/2024 17:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 17:42	40502	CRES_T2	3	21	18	0.2	0.36	0.16	0.83	1.24	0	0	0	0	0	0
6/17/2024 17:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 17:43	40502	CRES_T2	3	21	18	0.2	0.36	0.16	0.42	0.62	0	0	0	0	0	0
6/17/2024 17:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 17:44	40502	CRES_T2	3	21	18	0.2	0.36	0.16	0.83	1.24	0	0	0	0	0	0
6/17/2024 17:45	40502	CRES_T2	18	8	-10	0.46	0.28	-0.18	0.83	1.24	0	0	0	0	0	0
6/17/2024 17:45	46101	MACI_T2	0	0	0	0	0	0	-0.33	-0.68	1	1	0	1200	1200	0
6/17/2024 17:45	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 17:46	40502	CRES_T2	18	8	-10	0.46	0.28	-0.18	0.42	0.62	0	0	0	0	0	0
6/17/2024 17:46	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 17:50	67602	WARW_T2	4	3	-1	0.45	0.1	-0.35	0.43	0.85	2	2	0	1500	1500	0
6/17/2024 17:51	67602	WARW_T2	4	3	-1	0.45	0.1	-0.35	0.85	0.42	2	2	0	1500	1500	0
6/17/2024 17:53	58704	ROSE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 17:53	58701	ROSE_T2	0	0	0	0	0	0	-1.06	-0.56	1	1	0	600	600	0
6/17/2024 17:53	67602	WARW_T2	4	3	-1	0.45	0.1	-0.35	0.85	0.42	2	2	0	1500	1500	0
6/17/2024 17:53	58702	ROSE_T2	1	4	3	6.9	6.6	-0.3	0	0	0	0	0	0	0	0
6/17/2024 17:53	58705	ROSE_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
6/17/2024 17:53	58706	ROSE_T2	7	4	-3	0.71	1.4	0.69	0	0	0	0	0	0	0	0
6/17/2024 17:53	40101	HUNT_T2	67	131	64	0.54	0.53	-0.01	-2.41	-1.2	0	0	0	0	0	0
6/17/2024 17:56	45502	DERR_T2	2	5	3	0.35	0.65	0.3	0	0	0	0	0	0	0	0
6/17/2024 17:56	45501	DERR_T2	12	30	18	0.34	0.39	0.05	4.3	2.19	4	4	0	3600	3600	0
6/17/2024 17:56	67602	WARW_T2	4	3	-1	0.45	0.1	-0.35	0.85	0.42	2	2	0	1500	1500	0
6/17/2024 17:57	58102	NEKI_T1	4	26	22	0.58	1.18	0.6	-1.92	-0.99	1	1	0	1200	1200	0
6/17/2024 17:58	47101	MARL_T1	102	141	39	1.24	1	-0.24	-1.15	-0.58	1	1	0	600	600	0
6/17/2024 17:58	47104	MARL_T1	3	1	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/17/2024 17:59	45502	DERR_T2	2	5	3	0.35	0.65	0.3	0	0	0	0	0	0	0	0
6/17/2024 17:59	45501	DERR_T2	12	30	18	0.34	0.39	0.05	2.15	1.09	2	2	0	1800	1800	0
6/17/2024 18:00	64202	KINZ_T1	3	1	-2	0.57	1.9	1.33	0	0	0	0	0	0	0	0
6/17/2024 18:00	64203	KINZ_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/17/2024 18:00	64204	KINZ_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/17/2024 18:00	64201	KINZ_T1	4	1	-3	0.18	0	-0.18	0.14	0.04	4	4	0	2100	2100	0
6/17/2024 18:00	63304	GREE_T1	0	0	0	0	0	0	-5.83	-2.95	1	1	0	1200	1200	0
6/17/2024 18:01	47101	MARL_T1	126	142	16	1.11	0.93	-0.18	-1.15	-0.58	1	1	0	600	600	0
6/17/2024 18:01	47104	MARL_T1	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/17/2024 18:01	63304	GREE_T1	0	0	0	0	0	0	-5.83	-2.95	1	1	0	1200	1200	0
6/17/2024 18:05	66505	SMAN_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
6/17/2024 18:05	66504	SMAN_T2	3	21	18	0.87	0.42	-0.45	0.26	0.2	1	1	0	1200	1200	0
6/17/2024 18:05	66503	SMAN_T2	5	7	2	0.64	0.64	0	0	0	0	0	0	0	0	0
6/17/2024 18:06	47401	PENS_T1	53	39	-14	0.55	0.57	0.02	1.6	1.55	0	0	0	0	0	0
6/17/2024 18:06	47402	PENS_T1	8	7	-1	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
6/17/2024 18:07	65602	QVIL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/17/2024 18:07	65604	QVIL_T2	4	4	0	0.8	1	0.2	0.45	0.45	0	0	0	0	0	0
6/17/2024 18:10	47401	PENS_T1	53	39	-14	0.55	0.57	0.02	1.6	1.55	0	0	0	0	0	0
6/17/2024 18:10	47402	PENS_T1	8	7	-1	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
6/17/2024 18:17	64203	KINZ_T1	0	0	0	0	0	0	-1.28	-1.2	3	3	0	2100	2100	0
6/17/2024 18:17	64201	KINZ_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
6/17/2024 18:17	64204	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/17/2024 18:17	64202	KINZ_T1	1	1	0	2.6	0	-2.6	0	0	0	0	0	0	0	0
6/17/2024 18:18	64201	KINZ_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
6/17/2024 18:18	64204	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/17/2024 18:18	64202	KINZ_T1	1	1	0	2.6	0	-2.6	0	0	0	0	0	0	0	0
6/17/2024 18:18	64203	KINZ_T1	0	0	0	0	0	0	-1.28	-1.2	3	3	0	2100	2100	0
6/17/2024 18:20	54203	PENN_T1	5	5	0	0.58	0.7	0.12	0	0	0	0	0	0	0	0
6/17/2024 18:20	54201	PENN_T1	3	4	1	0.6	0.63	0.03	-1.4	-1.42	0	0	0	0	0	0
6/17/2024 18:21	66901	SHIL_T2	0	0	0	0	0	0	-1.49	-1.52	0	0	0	0	0	0
6/17/2024 18:24	43301	WATS_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
6/17/2024 18:24	43304	WATS_T2	36	72	36	0.49	0.56	0.07	-0.3	-0.32	1	1	0	600	600	0
6/17/2024 18:26	43301	WATS_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
6/17/2024 18:26	43304	WATS_T2	36	72	36	0.49	0.56	0.07	-0.3	-0.32	1	1	0	600	600	0
6/17/2024 18:27	43301	WATS_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
6/17/2024 18:27	43304	WATS_T2	36	72	36	0.49	0.56	0.07	-0.3	-0.32	1	1	0	600	600	0
6/17/2024 18:27	12601	MACA_T1	5	10	5	0.52	0.2	-0.32	1.59	1.62	0	0	0	0	0	0
6/17/2024 18:27	12602	MACA_T1	13	11	-2	1.3	0.27	-1.03	0	0	0	0	0	0	0	0
6/17/2024 18:27	12606	MACA_T1	64	69	5	1.84	1.5	-0.34	0	0	0	0	0	0	0	0
6/17/2024 18:27	12605	MACA_T1	3	0	-3	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/17/2024 18:28	24702	FLND_T2	0	0	0	0	0	0	0.26	0.32	1	1	0	1200	1200	0
6/17/2024 18:36	61303	EARL_T1	2	1	-1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/17/2024 18:36	61302	EARL_T1	1	2	1	2.6	1.2	-1.4	0	0	0	0	0	0	0	0
6/17/2024 18:36	61304	EARL_T1	0	0	0	0	0	0	-0.34	-0.37	1	1	0	600	600	0
6/17/2024 18:37	61304	EARL_T1	0	0	0	0	0	0	-1.02	-1.11	3	3	0	1800	1800	0
6/17/2024 18:37	61302	EARL_T1	1	2	1	2.6	1.2	-1.4	0	0	0	0	0	0	0	0
6/17/2024 18:37	61303	EARL_T1	2	1	-1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/17/2024 18:38	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 18:38	40502	CRES_T2	8	32	24	0.29	0.32	0.03	0.12	0.18	0	0	0	0	0	0
6/17/2024 18:41	46602	LACR_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
6/17/2024 18:42	40101	HUNT_T2	80	64	-16	0.58	0.62	0.04	-2.42	-2.48	0	0	0	0	0	0
6/17/2024 18:42	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/17/2024 18:42	29402	BELT_T1	1	1	0	8.1	8.2	0.1	0	0	0	0	0	0	0	0
6/17/2024 18:43	45802	HEGI_T2	11	19	8	1.12	1.32	0.2	0.03	0.12	2	2	0	1200	1200	0
6/17/2024 18:44	24901	WHHA_T1	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
6/17/2024 18:44	24902	WHHA_T1	1	5	4	0.9	0.68	-0.22	0	0	0	0	0	0	0	0
6/17/2024 18:46	45802	HEGI_T2	17	17	0	1.35	1.51	0.16	0.03	0.12	2	2	0	1200	1200	0
6/17/2024 19:00	23401	HONE_T2	42	12	-30	0.47	0.32	-0.15	0.76	0.69	0	0	0	0	0	0
6/17/2024 19:04	64203	KINZ_T1	0	0	0	0	0	0	-1.23	-1.33	3	3	0	2100	2100	0
6/17/2024 19:04	64204	KINZ_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/17/2024 19:11	10204	ALLE_T2	4	4	0	0.33	0	-0.33	0	0	0	0	0	0	0	0
6/17/2024 19:11	10102	ALLE_T2	1	1	0	7.7	7.4	-0.3	0	0	0	0	0	0	0	0
6/17/2024 19:11	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 19:13	13501	MCMI_T1	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
6/17/2024 19:14	48301	ORWI_T1	2	2	0	5.1	5.45	0.35	-0.2	-0.25	1	1	0	900	900	0
6/17/2024 19:20	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 19:20	40502	CRES_T2	16	13	-3	0.41	0.2	-0.21	0.2	0.13	0	0	0	0	0	0
6/17/2024 19:24	29401	BELT_T1	0	12	12	0	0.14	0.14	0	0	1	1	0	900	900	0
6/17/2024 19:24	29402	BELT_T1	1	1	0	8.3	8.5	0.2	0	0	0	0	0	0	0	0
6/17/2024 19:25	12801	MICK_T1	0	0	0	0	0	0	-0.4	-0.43	1	1	0	600	600	0
6/17/2024 19:38	64801	MONE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 19:38	64802	MONE_T2	169	162	-7	2.13	1.63	-0.5	-0.01	-0.01	0	0	0	0	0	0
6/17/2024 19:39	53501	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 19:39	67503	WEWI_T2	82	56	-26	0.64	0.48	-0.16	-0.38	-0.44	0	0	0	0	0	0
6/17/2024 19:39	53502	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1200	1200	0
6/17/2024 19:39	67502	WEWI_T2	5	3	-2	0.38	0	-0.38	0	0	0	0	0	0	0	0
6/17/2024 19:41	51101	CARL_T1	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
6/17/2024 19:41	51108	CARL_T1	1	1	0	0.6	0.5	-0.1	-1.59	-0.97	1	0	-1	600	0	-600
6/17/2024 19:48	61704	ELIZ_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 19:48	23403	HONE_T1	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
6/17/2024 19:48	61702	ELIZ_T2	4	7	3	0.33	0	-0.33	-1.87	-1.99	2	2	0	1500	1500	0
6/17/2024 20:02	61701	ELIZ_T1	1	3	2	0.2	0.55	0.35	1.12	1.3	0	0	0	0	0	0
6/17/2024 20:02	61703	ELIZ_T1	15	0	-15	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/17/2024 20:03	64204	KINZ_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
6/17/2024 20:03	64201	KINZ_T1	1	0	-1	2.3	0	-2.3	-0.44	-0.42	4	4	0	2100	2100	0
6/17/2024 20:06	67804	WLAN_T1	8	8	0	1.04	0.7	-0.34	0	0	0	0	0	0	0	0
6/17/2024 20:06	67801	WLAN_T1	0	0	0	0	0	0	-0.6	-0.74	0	0	0	0	0	0
6/17/2024 20:08	44902	SCOT_T2	127	116	-11	0.36	0.12	-0.24	-1.74	-1.79	0	0	0	0	0	0
6/17/2024 20:12	29402	BELT_T1	1	5	4	8.8	2	-6.8	0	0	0	0	0	0	0	0
6/17/2024 20:12	29401	BELT_T1	22	71	49	0.21	0.37	0.16	0	0	1	1	0	900	900	0
6/17/2024 20:14	20403	ASHF_T2	0	2	2	0	0.3	0.3	1.05	1	0	0	0	0	0	0
6/17/2024 20:14	20402	ASHF_T2	1	5	4	0.2	0	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/17/2024 20:17	47001	HUGH_T2	6	2	-4	0.13	0.1	-0.03	-0.95	-0.91	1	1	0	900	900	0
6/17/2024 20:18	47001	HUGH_T2	6	2	-4	0.13	0.1	-0.03	-0.95	-0.91	1	1	0	900	900	0
6/17/2024 20:22	44601	SALE_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
6/17/2024 20:27	43304	WATS_T2	35	82	47	0.56	0.75	0.19	-0.6	-0.6	1	1	0	600	600	0
6/17/2024 20:35	15702	TANN_T2	0	0	0	0	0	0	-0.02	-0.14	0	0	0	0	0	0
6/17/2024 20:35	58401	MORO_T1	4	5	1	0.88	0.95	0.07	-5.14	-5.42	6	6	0	4200	4200	0
6/17/2024 20:35	15703	TANN_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
6/17/2024 20:36	55001	NEWP_T1	0	1	1	0	0	0	-0.08	-0.11	0	0	0	0	0	0
6/17/2024 20:36	55002	NEWP_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
6/17/2024 20:39	58401	MORO_T1	4	5	1	0.88	0.95	0.07	-2.71	-2.69	3	3	0	2100	2100	0
6/17/2024 20:39	15703	TANN_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
6/17/2024 20:39	15702	TANN_T2	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
6/17/2024 20:52	47901	HRDG_T1	0	0	0	0	0	0	1.25	1.24	1	1	0	1200	1200	0
6/17/2024 21:26	20401	ASHF_T2	0	0	0	0	0	0	0.41	0.36	0	0	0	0	0	0
6/17/2024 21:26	20403	ASHF_T2	3	5	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/17/2024 21:26	20402	ASHF_T2	6	2	-4	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/17/2024 21:54	16302	ALPA_T2	0	0	0	0	0	0	-0.09	-0.13	0	0	0	0	0	0
6/17/2024 21:56	45702	LIND_T2	0	2	2	0	0.1	0.1	-1.33	-1.39	0	0	0	0	0	0
6/17/2024 21:57	45702	LIND_T2	0	2	2	0	0.1	0.1	-1.33	-1.39	0	0	0	0	0	0
6/17/2024 21:58	16302	ALPA_T2	0	0	0	0	0	0	-0.09	-0.13	0	0	0	0	0	0
6/17/2024 21:59	16302	ALPA_T2	0	0	0	0	0	0	-0.09	-0.13	0	0	0	0	0	0
6/17/2024 22:00	16302	ALPA_T2	0	0	0	0	0	0	-0.09	-0.13	0	0	0	0	0	0
6/17/2024 22:04	65205	PRIN_T1	1	1	0	1.5	1.2	-0.3	0	0	0	0	0	0	0	0
6/17/2024 22:05	56801	BENV_T1	9	12	3	0.99	1.27	0.28	-0.15	-0.79	1	2	1	600	1200	600
6/17/2024 22:09	46802	HEPB_T1	0	0	0	0	0	0	-0.25	-0.33	0	0	0	0	0	0
6/17/2024 22:10	46602	LACR_T1	1	1	0	0.1	0.4	0.3	0.3	0.29	0	0	0	0	0	0
6/17/2024 22:11	61701	ELIZ_T1	1	1	0	1.8	1.8	0	0.6	0.59	0	0	0	0	0	0
6/17/2024 22:16	46803	HEPB_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:16	54201	PENN_T1	4	4	0	0.95	1	0.05	-1.65	-1.64	0	0	0	0	0	0
6/17/2024 22:16	54203	PENN_T1	5	5	0	0.52	0.76	0.24	0	0	0	0	0	0	0	0
6/17/2024 22:16	46801	HEPB_T2	3	10	7	0.93	0.38	-0.55	0.13	0.14	0	0	0	0	0	0
6/17/2024 22:17	46801	HEPB_T2	3	10	7	0.93	0.38	-0.55	0	0	0	0	0	0	0	0
6/17/2024 22:17	46803	HEPB_T2	1	1	0	0.1	0.2	0.1	0.65	0.7	0	0	0	0	0	0
6/17/2024 22:19	43301	WATS_T2	1	1	0	0.6	0.2	-0.4	-0.24	-0.21	1	1	0	900	900	0
6/17/2024 22:19	43304	WATS_T2	17	9	-8	0.39	0.21	-0.18	0	0	0	0	0	0	0	0
6/17/2024 22:20	61702	ELIZ_T2	0	0	0	0	0	0	-2.26	-2.24	2	2	0	1500	1500	0
6/17/2024 22:20	40101	HUNT_T2	0	1	1	0	0	0	-1.39	-1.12	0	0	0	0	0	0
6/17/2024 22:20	42701	AUGU_T1	90	86	-4	2.09	1.65	-0.44	0	0	0	0	0	0	0	0
6/17/2024 22:21	46602	LACR_T1	1	1	0	0.2	0.4	0.2	0.29	0.23	0	0	0	0	0	0
6/17/2024 22:21	55101	WERT_T1	0	0	0	0	0	0	-1.46	-1.48	3	3	0	2400	2400	0
6/17/2024 22:23	51401	LYKE_T1	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
6/17/2024 22:24	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:24	44301	BEAV_T2	1	1	0	1	0	-1	0.42	0.55	1	1	0	600	600	0
6/17/2024 22:25	65604	QVIL_T2	1	1	0	1.2	1.1	-0.1	0.7	0.66	0	0	0	0	0	0
6/17/2024 22:25	56501	ROCK_T2	4	5	1	2.43	1.92	-0.51	-1.85	-1.83	0	0	0	0	0	0
6/17/2024 22:25	12402	MILF_T1	23	18	-5	0.57	0.64	0.07	0.94	0.94	0	0	0	0	0	0
6/17/2024 22:25	57006	WHHI_T2	0	0	0	0	0	0	0.76	0.73	1	1	0	600	600	0
6/17/2024 22:26	40101	HUNT_T2	0	1	1	0	0	0	-1.12	-1.13	0	0	0	0	0	0
6/17/2024 22:26	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:26	52004	LING_T2	0	0	0	0	0	0	0.16	0.1	0	0	0	0	0	0
6/17/2024 22:26	40502	CRES_T2	9	26	17	0.68	0.46	-0.22	-0.28	-0.29	0	0	0	0	0	0
6/17/2024 22:26	54203	PENN_T1	5	5	0	0.52	0.76	0.24	0	0	0	0	0	0	0	0
6/17/2024 22:26	40501	CRES_T2	6	9	3	0.22	0.51	0.29	0	0	0	0	0	0	0	0
6/17/2024 22:26	54201	PENN_T1	4	4	0	0.95	1	0.05	-1.64	-1.65	0	0	0	0	0	0
6/17/2024 22:26	21206	ECAR_T2	10	3	-7	1.24	7.8	6.56	0.42	0.38	0	0	0	0	0	0
6/17/2024 22:27	46203	DANV_T2	0	0	0	0	0	0	-0.25	-0.33	0	0	0	0	0	0
6/17/2024 22:27	54203	PENN_T1	5	5	0	0.52	0.76	0.24	0	0	0	0	0	0	0	0
6/17/2024 22:27	61501	EPET_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
6/17/2024 22:27	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:27	56802	BENV_T2	0	0	0	0	0	0	-0.88	-0.98	0	0	0	0	0	0
6/17/2024 22:27	54201	PENN_T1	4	4	0	0.95	1	0.05	-1.64	-1.65	0	0	0	0	0	0
6/17/2024 22:27	47401	PENS_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
6/17/2024 22:27	46602	LACR_T1	1	1	0	0.2	0.4	0.2	0.29	0.23	0	0	0	0	0	0
6/17/2024 22:27	66504	SMAN_T2	0	0	0	0	0	0	-1.4	-1.72	2	2	0	2400	2400	0
6/17/2024 22:27	61506	EPET_T2	0	0	0	0	0	0	-1.83	-1.79	2	2	0	1800	1800	0
6/17/2024 22:27	47403	PENS_T1	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
6/17/2024 22:27	46206	DANV_T2	3	4	1	0.77	0.6	-0.17	0	0	0	0	0	0	0	0
6/17/2024 22:27	46101	MACI_T2	0	0	0	0	0	0	0.77	0.73	0	0	0	0	0	0
6/17/2024 22:28	42902	MIDD_T2	0	0	0	0	0	0	-0.82	-0.88	1	1	0	600	600	0
6/17/2024 22:28	22905	HARW_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:28	64201	KINZ_T1	1	1	0	0.2	0.3	0.1	-0.2	-0.13	3	3	0	1500	1500	0
6/17/2024 22:28	40501	CRES_T2	6	9	3	0.22	0.51	0.29	0	0	0	0	0	0	0	0
6/17/2024 22:28	43304	WATS_T2	17	9	-8	0.39	0.21	-0.18	-0.28	-0.27	0	0	0	0	0	0
6/17/2024 22:28	55002	NEWP_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
6/17/2024 22:28	56802	BENV_T2	0	0	0	0	0	0	-0.88	-0.98	0	0	0	0	0	0
6/17/2024 22:28	64204	KINZ_T1	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
6/17/2024 22:28	44203	POIN_T2	4	0	-4	0.4	0	-0.4	-0.39	-0.32	2	2	0	2100	2100	0
6/17/2024 22:28	57006	WHHI_T2	0	0	0	0	0	0	0.76	0.73	1	1	0	600	600	0
6/17/2024 22:28	59302	MCAL_T1	0	0	0	0	0	0	-0.61	-0.69	1	1	0	600	600	0
6/17/2024 22:28	40502	CRES_T2	9	26	17	0.68	0.46	-0.22	-0.28	-0.29	0	0	0	0	0	0
6/17/2024 22:28	65401	MARI_T1	0	9	9	0	0.7	0.7	0	0	0	0	0	0	0	0
6/17/2024 22:28	60501	NMAN_T2	3	3	0	4.43	4.8	0.37	0	0	0	0	0	0	0	0
6/17/2024 22:28	43301	WATS_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
6/17/2024 22:28	64202	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/17/2024 22:28	22901	HARW_T1	0	0	0	0	0	0	-0.36	-0.28	1	1	0	1200	1200	0
6/17/2024 22:28	40101	HUNT_T2	0	1	1	0	0	0	-1.12	-1.13	0	0	0	0	0	0
6/17/2024 22:28	17002	RIRO_T2	0	0	0	0	0	0	0.66	0.61	0	0	0	0	0	0
6/17/2024 22:28	60502	NMAN_T2	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
6/17/2024 22:28	22903	HARW_T1	16	22	6	1.17	0.79	-0.38	0	0	0	0	0	0	0	0
6/17/2024 22:28	61303	EARL_T1	0	1	1	0	0	0	0.23	0.38	0	0	0	0	0	0
6/17/2024 22:28	23201	HIRU_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
6/17/2024 22:28	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:29	42701	AUGU_T1	90	86	-4	2.09	1.65	-0.44	0	0	0	0	0	0	0	0
6/17/2024 22:29	47403	PENS_T1	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
6/17/2024 22:29	25404	LAHA_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:29	47401	PENS_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
6/17/2024 22:29	56801	BENV_T1	8	14	6	0.81	1.1	0.29	-0.84	-0.91	2	2	0	1200	1200	0
6/17/2024 22:29	55002	NEWP_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
6/17/2024 22:29	25402	LAHA_T2	0	0	0	0	0	0	-0.75	-0.79	0	0	0	0	0	0
6/17/2024 22:29	40501	CRES_T2	6	9	3	0.22	0.51	0.29	0	0	0	0	0	0	0	0
6/17/2024 22:29	40502	CRES_T2	9	26	17	0.68	0.46	-0.22	-0.56	-0.58	0	0	0	0	0	0
6/17/2024 22:29	65001	NEFF_T2	0	0	0	0	0	0	-0.28	-0.25	1	1	0	1200	1200	0
6/17/2024 22:29	58102	NEKI_T1	1	1	0	0.5	0.3	-0.2	-0.15	-0.08	1	1	0	1200	1200	0
6/17/2024 22:29	42902	MIDD_T2	0	0	0	0	0	0	-0.82	-0.88	1	1	0	600	600	0
6/17/2024 22:29	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.08	0.17	2	2	0	1800	1800	0
6/17/2024 22:29	60305	TWVA_T2	0	0	0	0	0	0	-0.01	-0.1	2	2	0	2400	2400	0
6/17/2024 22:30	61101	MARL_T1	36	16	-20	0.89	0.93	0.04	-0.99	-1.02	1	1	0	600	600	0
6/17/2024 22:30	13503	MCMI_T2	18	11	-7	0.14	0.11	-0.03	-0.71	-0.71	0	0	0	0	0	0
6/17/2024 22:30	63501	HEID_TBK1-2	0	0	0	0	0	0	0.08	0.1	1	1	0	900	900	0
6/17/2024 22:30	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-1.12	-1.13	0	0	0	0	0	0
6/17/2024 22:30	16102	BING_T2	2	12	10	0.15	0.21	0.06	0	0	0	0	0	0	0	0
6/17/2024 22:30	10801	CHHI_T1	2	0	-2	0.1	0	-0.1	-1.35	-1.43	3	3	0	2100	2100	0
6/17/2024 22:30	40502	CRES_T2	14	30	16	0.51	0.47	-0.04	-1.12	-1.16	0	0	0	0	0	0
6/17/2024 22:30	52402	GRPA_T2	2	0	-2	0.3	0	-0.3	-0.64	-0.69	0	0	0	0	0	0
6/17/2024 22:30	41301	FISH_T1	2	3	1	0.9	0.87	-0.03	-0.37	-0.35	0	0	0	0	0	0
6/17/2024 22:30	57401	SPAN_T1	1	0	-1	0.6	0	-0.6	-0.42	-0.51	1	1	0	600	600	0
6/17/2024 22:30	56801	BENV_T1	12	8	-4	1.27	1.15	-0.12	-1.68	-1.82	4	4	0	2400	2400	0
6/17/2024 22:30	48302	ORWI_T2	2	2	0	0.95	1.25	0.3	0.3	0.3	0	0	0	0	0	0
6/17/2024 22:30	67503	WEWI_T2	0	0	0	0	0	0	-0.27	-0.31	0	0	0	0	0	0
6/17/2024 22:30	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/17/2024 22:30	43304	WATS_T2	9	8	-1	0.33	0	-0.33	0	0	0	0	0	0	0	0
6/17/2024 22:30	52004	LING_T2	0	0	0	0	0	0	0.16	0.1	0	0	0	0	0	0
6/17/2024 22:30	56501	ROCK_T2	3	6	3	2.8	1.92	-0.88	-1.85	-1.83	0	0	0	0	0	0
6/17/2024 22:30	24902	WHHA_T1	0	1	1	0	0	0	0.79	0.67	0	0	0	0	0	0
6/17/2024 22:30	61701	ELIZ_T1	1	1	0	1.6	2.2	0.6	0.59	0.88	0	0	0	0	0	0
6/17/2024 22:30	45501	DERR_T2	0	0	0	0	0	0	0.08	0.17	2	2	0	1800	1800	0
6/17/2024 22:30	41303	FISH_T1	1	1	0	2.9	2.2	-0.7	0	0	0	0	0	0	0	0
6/17/2024 22:30	67603	WARW_T1	0	0	0	0	0	0	0.29	0.21	0	0	0	0	0	0
6/17/2024 22:30	43301	WATS_T2	1	0	-1	0.2	0	-0.2	-0.21	-0.28	1	1	0	900	900	0
6/17/2024 22:30	52403	GRPA_T2	17	5	-12	0.64	0.47	-0.17	0	0	0	0	0	0	0	0
6/17/2024 22:30	40501	CRES_T2	7	9	2	0.29	0.51	0.22	0	0	0	0	0	0	0	0
6/17/2024 22:30	16101	BING_T2	0	0	0	0	0	0	0.99	0.92	0	0	0	0	0	0
6/17/2024 22:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:31	40502	CRES_T2	14	30	16	0.51	0.47	-0.04	-0.28	-0.29	0	0	0	0	0	0
6/17/2024 22:31	11102	EGYP_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/17/2024 22:31	57401	SPAN_T1	1	0	-1	0.6	0	-0.6	-0.42	-0.51	1	1	0	600	600	0
6/17/2024 22:31	10805	CHHI_T2	7	1	-6	1.53	8.7	7.17	-0.84	-0.83	1	1	0	600	600	0
6/17/2024 22:31	12304	LANA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/17/2024 22:31	66504	SMAN_T2	0	0	0	0	0	0	-0.7	-0.86	1	1	0	1200	1200	0
6/17/2024 22:31	64801	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/17/2024 22:31	61102	BERK_T5	0	0	0	0	0	0	0.46	0.44	1	1	0	300	300	0
6/17/2024 22:31	56501	ROCK_T2	3	6	3	2.8	1.92	-0.88	-1.85	-1.83	0	0	0	0	0	0
6/17/2024 22:31	45501	DERR_T2	0	0	0	0	0	0	0.08	0.17	2	2	0	1800	1800	0
6/17/2024 22:31	13303	ORVI_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
6/17/2024 22:31	64802	MONE_T2	28	10	-18	0.59	0	-0.59	0	0	0	0	0	0	0	0
6/17/2024 22:31	60803	BUCK_T1	15	14	-1	0.39	0.25	-0.14	0	0	0	0	0	0	0	0
6/17/2024 22:31	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/17/2024 22:31	11507	FREE_T2	4	19	15	0.85	1.05	0.2	0.58	0.31	1	1	0	600	600	0
6/17/2024 22:31	40501	CRES_T2	7	9	2	0.29	0.51	0.22	0	0	0	0	0	0	0	0
6/17/2024 22:31	46206	DANV_T2	4	2	-2	0.55	0.6	0.05	3.11	3.05	1	1	0	1200	1200	0
6/17/2024 22:31	65604	QVIL_T2	1	1	0	1.1	0.7	-0.4	0.7	0.66	0	0	0	0	0	0
6/17/2024 22:31	43304	WATS_T2	9	8	-1	0.33	0	-0.33	-0.83	-0.82	0	0	0	0	0	0
6/17/2024 22:31	14204	EALL_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
6/17/2024 22:31	61703	ELIZ_T1	0	0	0	0	0	0	-2.49	-2.53	2	2	0	2100	2100	0
6/17/2024 22:31	61701	ELIZ_T1	1	1	0	1.6	2.2	0.6	0	0	0	0	0	0	0	0
6/17/2024 22:31	12302	LANA_T2	0	0	0	0	0	0	-2.05	-2.08	3	3	0	2700	2700	0
6/17/2024 22:31	67605	WARW_T1	0	0	0	0	0	0	-1.01	-1.03	0	0	0	0	0	0
6/17/2024 22:31	60801	BUCK_T1	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
6/17/2024 22:31	11103	EGYP_T1	0	0	0	0	0	0	0.71	0.66	0	0	0	0	0	0
6/17/2024 22:31	47101	MARL_T1	36	16	-20	0.89	0.93	0.04	-0.99	-1.02	1	1	0	600	600	0
6/17/2024 22:31	52002	LING_T2	0	0	0	0	0	0	-0.17	-0.41	0	0	0	0	0	0
6/17/2024 22:32	46206	DANV_T2	4	2	-2	0.55	0.6	0.05	3.11	3.05	1	1	0	1200	1200	0
6/17/2024 22:32	40502	CRES_T2	14	30	16	0.51	0.47	-0.04	-0.28	-0.29	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/17/2024 22:32	11102	EGYP_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/17/2024 22:32	53903	HALI_T2	2	2	0	0.1	0.45	0.35	-0.11	-0.1	0	0	0	0	0	0
6/17/2024 22:32	64302	LINC_T2	1	1	0	0.6	0.4	-0.2	1.48	1.43	0	0	0	0	0	0
6/17/2024 22:32	56504	ROCK_T2	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
6/17/2024 22:32	11101	EGYP_T1	0	0	0	0	0	0	-0.1	-0.32	1	1	0	1200	1200	0
6/17/2024 22:32	49803	UNIV_T1	5	0	-5	0.14	0	-0.14	-0.62	-0.73	0	0	0	0	0	0
6/17/2024 22:32	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:32	13501	MCMI_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
6/17/2024 22:32	48302	ORWI_T2	2	2	0	0.95	1.25	0.3	0.3	0.3	0	0	0	0	0	0
6/17/2024 22:32	63501	HEID_TBK1-2	0	0	0	0	0	0	0.08	0.1	1	1	0	900	900	0
6/17/2024 22:32	60803	BUCK_T1	15	14	-1	0.39	0.25	-0.14	0	0	0	0	0	0	0	0
6/17/2024 22:32	13503	MCMI_T2	18	11	-7	0.14	0.11	-0.03	-0.71	-0.71	0	0	0	0	0	0
6/17/2024 22:32	56501	ROCK_T2	3	6	3	2.8	1.92	-0.88	-1.85	-1.83	0	0	0	0	0	0
6/17/2024 22:32	67503	WEWI_T2	0	0	0	0	0	0	-0.27	-0.31	0	0	0	0	0	0
6/17/2024 22:32	45502	DERR_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
6/17/2024 22:32	56802	BENV_T2	0	0	0	0	0	0	-0.88	-0.98	0	0	0	0	0	0
6/17/2024 22:32	53902	HALI_T2	1	1	0	3.9	4.3	0.4	0	0	0	0	0	0	0	0
6/17/2024 22:32	57401	SPAN_T1	1	0	-1	0.6	0	-0.6	-0.42	-0.51	1	1	0	600	600	0
6/17/2024 22:32	20601	GRWO_T2	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
6/17/2024 22:32	45501	DERR_T2	0	0	0	0	0	0	0.08	0.17	2	2	0	1800	1800	0
6/17/2024 22:32	64101	REFR_T1	1	0	-1	0.4	0	-0.4	0.42	0.37	0	0	0	0	0	0
6/17/2024 22:32	60801	BUCK_T1	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
6/17/2024 22:32	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-1.12	-1.13	0	0	0	0	0	0
6/17/2024 22:32	40501	CRES_T2	7	9	2	0.29	0.51	0.22	0	0	0	0	0	0	0	0
6/17/2024 22:32	48301	ORWI_T1	2	2	0	5.35	5.7	0.35	0.55	0.52	0	0	0	0	0	0
6/17/2024 22:32	61102	BERK_T5	0	0	0	0	0	0	0.46	0.44	1	1	0	300	300	0
6/17/2024 22:33	56501	ROCK_T2	3	6	3	2.8	1.92	-0.88	-1.85	-1.83	0	0	0	0	0	0
6/17/2024 22:33	58003	WCAK_T1	1	0	-1	0.2	0	-0.2	0.34	0.81	1	1	0	600	600	0
6/17/2024 22:33	53902	HALI_T2	1	1	0	3.9	4.3	0.4	0	0	0	0	0	0	0	0
6/17/2024 22:33	20401	ASHF_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/17/2024 22:33	51401	LYKE_T1	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
6/17/2024 22:33	40501	CRES_T2	7	9	2	0.29	0.51	0.22	0	0	0	0	0	0	0	0
6/17/2024 22:33	11102	EGYP_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/17/2024 22:33	11103	EGYP_T1	0	0	0	0	0	0	0.71	0.66	0	0	0	0	0	0
6/17/2024 22:33	40502	CRES_T2	14	30	16	0.51	0.47	-0.04	-0.28	-0.29	0	0	0	0	0	0
6/17/2024 22:33	63401	HONY_T1	0	0	0	0	0	0	0.28	0.23	1	1	0	600	600	0
6/17/2024 22:33	64202	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/17/2024 22:33	64101	REFR_T1	1	0	-1	0.4	0	-0.4	0.83	0.75	0	0	0	0	0	0
6/17/2024 22:33	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/17/2024 22:33	53901	HALI_T2	0	0	0	0	0	0	-1	-1.03	0	0	0	0	0	0
6/17/2024 22:33	42701	AUGU_T1	85	85	0	1.98	1.46	-0.52	0	0	0	0	0	0	0	0
6/17/2024 22:33	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/17/2024 22:33	48301	ORWI_T1	2	2	0	5.35	5.7	0.35	0.55	0.52	0	0	0	0	0	0
6/17/2024 22:33	53501	EVIL_T2	0	1	1	0	0.1	0.1	-0.78	-0.8	2	2	0	1200	1200	0
6/17/2024 22:33	20403	ASHF_T2	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
6/17/2024 22:33	43304	WATS_T2	9	8	-1	0.33	0	-0.33	-0.28	-0.27	0	0	0	0	0	0
6/17/2024 22:33	46301	ROHR_T1	218	260	42	0.45	0.62	0.17	0	0	0	0	0	0	0	0
6/17/2024 22:33	65604	QVIL_T2	1	1	0	1.1	0.7	-0.4	0.7	0.66	0	0	0	0	0	0
6/17/2024 22:33	64201	KINZ_T1	1	7	6	0.3	0.27	-0.03	-0.2	-0.13	3	3	0	1500	1500	0
6/17/2024 22:33	61304	EARL_T1	0	0	0	0	0	0	-0.36	-0.4	1	1	0	600	600	0
6/17/2024 22:33	29401	BELT_T1	0	2	2	0	0.1	0.1	0	0	1	1	0	900	900	0
6/17/2024 22:33	46302	ROHR_T1	3	42	39	1.8	0.35	-1.45	0.39	0.37	0	0	0	0	0	0
6/17/2024 22:33	64203	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:33	53502	EVIL_T2	0	0	0	0	0	0	-0.13	-0.14	2	2	0	1200	1200	0
6/17/2024 22:33	61102	BERK_T5	0	0	0	0	0	0	0.46	0.44	1	1	0	300	300	0
6/17/2024 22:33	12701	MACU_T1	0	0	0	0	0	0	-0.86	-0.88	1	1	0	1200	1200	0
6/17/2024 22:33	64204	KINZ_T1	1	4	3	0.6	0.38	-0.22	0	0	0	0	0	0	0	0
6/17/2024 22:33	26401	INOR_T1	1	1	0	8.6	9	0.4	0.66	0.65	0	0	0	0	0	0
6/17/2024 22:33	53903	HALI_T2	2	2	0	0.1	0.45	0.35	0	0	0	0	0	0	0	0
6/17/2024 22:33	55003	NEWP_T2	0	0	0	0	0	0	-0.62	-0.64	1	1	0	600	600	0
6/17/2024 22:33	29402	BELT_T1	1	1	0	8	8.5	0.5	0	0	0	0	0	0	0	0
6/17/2024 22:34	65604	QVIL_T2	1	1	0	1.1	0.7	-0.4	0.7	0.66	0	0	0	0	0	0
6/17/2024 22:34	46203	DANV_T2	0	0	0	0	0	0	-0.25	-0.33	0	0	0	0	0	0
6/17/2024 22:34	47401	PENS_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
6/17/2024 22:34	12801	MICK_T1	0	0	0	0	0	0	-0.81	-0.83	1	1	0	600	600	0
6/17/2024 22:34	67603	WARW_T1	0	0	0	0	0	0	0.29	0.21	0	0	0	0	0	0
6/17/2024 22:34	61102	BERK_T5	0	0	0	0	0	0	0.46	0.44	1	1	0	300	300	0
6/17/2024 22:34	52401	GRPA_T2	0	1	1	0	0.5	0.5	-0.29	-0.34	0	0	0	0	0	0
6/17/2024 22:34	12803	MICK_T1	1	1	0	1.4	0.5	-0.9	0	0	0	0	0	0	0	0
6/17/2024 22:34	42701	AUGU_T1	85	85	0	1.98	1.46	-0.52	0	0	0	0	0	0	0	0
6/17/2024 22:34	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:34	42902	MIDD_T2	0	0	0	0	0	0	-0.82	-0.88	1	1	0	600	600	0
6/17/2024 22:34	21206	ECAR_T2	3	1	-2	2.77	7.3	4.53	0.42	0.38	0	0	0	0	0	0
6/17/2024 22:34	65401	MARI_T1	9	9	0	1.16	0.7	-0.46	0	0	0	0	0	0	0	0
6/17/2024 22:34	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/17/2024 22:34	52402	GRPA_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/17/2024 22:34	56802	BENV_T2	0	0	0	0	0	0	-0.88	-0.98	0	0	0	0	0	0
6/17/2024 22:34	40501	CRES_T2	7	9	2	0.29	0.51	0.22	0	0	0	0	0	0	0	0
6/17/2024 22:34	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:34	42201	SHEN_T2	0	0	0	0	0	0	0.14	0.11	1	1	0	600	600	0
6/17/2024 22:34	43304	WATS_T2	9	8	-1	0.33	0	-0.33	-0.28	-0.27	0	0	0	0	0	0
6/17/2024 22:34	53501	EVIL_T2	0	1	1	0	0.1	0.1	-0.78	-0.8	2	2	0	1200	1200	0
6/17/2024 22:34	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:34	56504	ROCK_T2	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
6/17/2024 22:34	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:34	41902	REED_T1	4	0	-4	0.2	0	-0.2	0.55	0.5	1	1	0	900	900	0
6/17/2024 22:34	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/17/2024 22:34	52403	GRPA_T2	17	5	-12	0.64	0.47	-0.17	0	0	0	0	0	0	0	0
6/17/2024 22:34	40502	CRES_T2	14	30	16	0.51	0.47	-0.04	-0.28	-0.29	0	0	0	0	0	0
6/17/2024 22:34	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/17/2024 22:34	56501	ROCK_T2	3	6	3	2.8	1.92	-0.88	-1.85	-1.83	0	0	0	0	0	0
6/17/2024 22:34	46101	MACI_T2	0	0	0	0	0	0	0.77	0.73	0	0	0	0	0	0
6/17/2024 22:34	24702	FLND_T2	0	0	0	0	0	0	-0.08	0.02	1	1	0	1200	1200	0
6/17/2024 22:34	46206	DANV_T2	4	2	-2	0.55	0.6	0.05	0	0	0	0	0	0	0	0
6/17/2024 22:35	41901	REED_T1	1	1	0	0.2	0.2	0	-1.14	-1.2	1	1	0	900	900	0
6/17/2024 22:35	67602	WARW_T2	0	0	0	0	0	0	0.12	0.06	2	2	0	1500	1500	0
6/17/2024 22:35	51003	NHAR_T1	0	0	0	0	0	0	-2.35	-2.34	1	1	0	1200	1200	0
6/17/2024 22:35	55101	WERT_T1	0	0	0	0	0	0	-1.48	-1.53	3	3	0	2400	2400	0
6/17/2024 22:35	23403	HONE_T1	5	30	25	0.12	0.16	0.04	-0.47	-0.51	0	0	0	0	0	0
6/17/2024 22:35	40501	CRES_T2	7	9	2	0.29	0.51	0.22	0	0	0	0	0	0	0	0
6/17/2024 22:35	12701	MACU_T1	0	0	0	0	0	0	-0.86	-0.88	1	1	0	1200	1200	0
6/17/2024 22:35	67605	WARW_T1	0	0	0	0	0	0	-1.01	-1.03	0	0	0	0	0	0
6/17/2024 22:35	48301	ORWI_T1	2	2	0	5.35	5.7	0.35	0.55	0.52	0	0	0	0	0	0
6/17/2024 22:35	13503	MCMI_T2	18	11	-7	0.14	0.11	-0.03	-0.71	-0.71	0	0	0	0	0	0
6/17/2024 22:35	64203	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:35	64201	KINZ_T1	1	7	6	0.3	0.27	-0.03	-0.2	-0.13	3	3	0	1500	1500	0
6/17/2024 22:35	49804	UNIV_T1	0	0	0	0	0	0	1.06	1.01	0	0	0	0	0	0
6/17/2024 22:35	51101	CARL_T1	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:35	51004	NHAR_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
6/17/2024 22:35	51002	NHAR_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
6/17/2024 22:35	41902	REED_T1	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/17/2024 22:35	61102	BERK_T5	0	0	0	0	0	0	0.92	0.88	2	2	0	600	600	0
6/17/2024 22:35	23404	HONE_T1	0	11	11	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:35	64202	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/17/2024 22:35	53501	EVIL_T2	0	1	1	0	0.1	0.1	-0.78	-0.8	2	2	0	1200	1200	0
6/17/2024 22:35	40502	CRES_T2	14	30	16	0.51	0.47	-0.04	-0.28	-0.29	0	0	0	0	0	0
6/17/2024 22:35	56501	ROCK_T2	3	6	3	2.8	1.92	-0.88	0	0	0	0	0	0	0	0
6/17/2024 22:35	63401	HONY_T1	0	0	0	0	0	0	0.28	0.23	1	1	0	600	600	0
6/17/2024 22:35	55001	NEWP_T1	0	0	0	0	0	0	-0.37	0.17	0	0	0	0	0	0
6/17/2024 22:35	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:35	56504	ROCK_T2	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
6/17/2024 22:35	60501	NMAN_T2	3	3	0	4.33	5.17	0.84	0	0	0	0	0	0	0	0
6/17/2024 22:35	49803	UNIV_T1	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
6/17/2024 22:35	51102	CARL_T1	20	0	-20	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/17/2024 22:35	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:35	64204	KINZ_T1	1	4	3	0.6	0.38	-0.22	0	0	0	0	0	0	0	0
6/17/2024 22:35	64101	REFR_T1	1	0	-1	0.4	0	-0.4	0.42	0.37	0	0	0	0	0	0
6/17/2024 22:35	51108	CARL_T1	1	0	-1	0.1	0	-0.1	-0.13	-0.23	0	0	0	0	0	0
6/17/2024 22:35	64802	MONE_T2	28	10	-18	0.59	0	-0.59	-0.01	-0.01	0	0	0	0	0	0
6/17/2024 22:35	60502	NMAN_T2	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
6/17/2024 22:36	67602	WARW_T2	0	0	0	0	0	0	0.06	0.03	2	2	0	1500	1500	0
6/17/2024 22:36	63402	HONY_T2	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:36	46203	DANV_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
6/17/2024 22:36	66903	SHIL_T2	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:36	66901	SHIL_T2	0	74	74	0	0.23	0.23	-0.6	-0.6	0	0	0	0	0	0
6/17/2024 22:36	56501	ROCK_T2	3	6	3	2.8	1.92	-0.88	-1.85	-1.83	0	0	0	0	0	0
6/17/2024 22:36	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/17/2024 22:36	26402	INOR_T1	0	0	0	0	0	0	-0.96	-1	0	0	0	0	0	0
6/17/2024 22:36	14404	SSLA_T1	1	1	0	3.3	3.7	0.4	0	0	0	0	0	0	0	0
6/17/2024 22:36	56802	BENV_T2	0	0	0	0	0	0	-0.88	-0.98	0	0	0	0	0	0
6/17/2024 22:36	20403	ASHF_T2	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
6/17/2024 22:36	52404	GRPA_T2	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
6/17/2024 22:36	42701	AUGU_T1	85	85	0	1.98	1.46	-0.52	0	0	0	0	0	0	0	0
6/17/2024 22:36	60801	BUCK_T1	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
6/17/2024 22:36	10801	CHHI_T1	2	0	-2	0.1	0	-0.1	-1.43	-1.46	3	3	0	2100	2100	0
6/17/2024 22:36	20401	ASHF_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/17/2024 22:36	14403	SSLA_T1	0	0	0	0	0	0	0.97	0.95	0	0	0	0	0	0
6/17/2024 22:36	67605	WARW_T1	0	0	0	0	0	0	-1.03	-1.06	0	0	0	0	0	0
6/17/2024 22:36	41301	FISH_T1	2	3	1	0.9	0.87	-0.03	-0.37	-0.35	0	0	0	0	0	0
6/17/2024 22:36	45501	DERR_T2	0	0	0	0	0	0	0.34	0.22	4	4	0	3600	3600	0
6/17/2024 22:36	52403	GRPA_T2	17	5	-12	0.64	0.47	-0.17	-0.13	-0.15	0	0	0	0	0	0
6/17/2024 22:36	22002	BOHE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:36	63403	HONY_T2	0	0	0	0	0	0	-0.66	-0.7	0	0	0	0	0	0
6/17/2024 22:36	24105	EHAZ_T1	4	4	0	5.78	5.5	-0.28	-1.57	-1.54	1	1	0	1200	1200	0
6/17/2024 22:36	24102	EHAZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/17/2024 22:36	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:36	46206	DANV_T2	4	2	-2	0.55	0.6	0.05	0	0	0	0	0	0	0	0
6/17/2024 22:36	53501	EVIL_T2	0	1	1	0	0.1	0.1	-0.78	-0.8	2	2	0	1200	1200	0
6/17/2024 22:36	61703	ELIZ_T1	0	0	0	0	0	0	-2.53	-2.62	2	2	0	2100	2100	0
6/17/2024 22:36	64802	MONE_T2	28	10	-18	0.59	0	-0.59	-0.01	-0.01	0	0	0	0	0	0
6/17/2024 22:36	40502	CRES_T2	14	30	16	0.51	0.47	-0.04	-0.56	-0.58	0	0	0	0	0	0
6/17/2024 22:36	47401	PENS_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
6/17/2024 22:36	41303	FISH_T1	1	1	0	2.9	2.2	-0.7	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/17/2024 22:36	26401	INOR_T1	1	1	0	8.6	9	0.4	0	0	0	0	0	0	0	0
6/17/2024 22:36	10805	CHHI_T2	7	1	-6	1.53	8.7	7.17	-1.66	-1.74	2	2	0	1200	1200	0
6/17/2024 22:36	61102	BERK_T5	0	0	0	0	0	0	0.88	0.94	2	2	0	600	600	0
6/17/2024 22:36	13503	MCMI_T2	18	11	-7	0.14	0.11	-0.03	-0.71	-0.71	0	0	0	0	0	0
6/17/2024 22:36	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:36	10102	ALLE_T2	1	1	0	7.4	7.3	-0.1	0	0	0	0	0	0	0	0
6/17/2024 22:36	66902	SHIL_T2	4	116	112	0.13	0.22	0.09	0	0	0	0	0	0	0	0
6/17/2024 22:36	60803	BUCK_T1	15	14	-1	0.39	0.25	-0.14	0	0	0	0	0	0	0	0
6/17/2024 22:36	64101	REFR_T1	1	0	-1	0.4	0	-0.4	0.75	0.69	0	0	0	0	0	0
6/17/2024 22:36	58003	WCAR_T1	1	0	-1	0.2	0	-0.2	0.34	0.81	1	1	0	600	600	0
6/17/2024 22:36	40501	CRES_T2	7	9	2	0.29	0.51	0.22	0	0	0	0	0	0	0	0
6/17/2024 22:36	22003	BOHE_T1	1	20	19	0.5	0.21	-0.29	0.04	0.04	0	0	0	0	0	0
6/17/2024 22:36	47101	MARL_T1	36	16	-20	0.89	0.93	0.04	-0.99	-1.02	1	1	0	600	600	0
6/17/2024 22:36	61701	ELIZ_T1	1	1	0	1.6	2.2	0.6	0	0	0	0	0	0	0	0
6/17/2024 22:36	52402	GRPA_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/17/2024 22:37	40902	JESH_T1	0	0	0	0	0	0	-0.81	-0.85	1	1	0	600	600	0
6/17/2024 22:37	44203	POIN_T2	0	1	1	0	0	0	-0.32	-0.44	2	2	0	2100	2100	0
6/17/2024 22:37	61701	ELIZ_T1	1	1	0	1.6	2.2	0.6	0	0	0	0	0	0	0	0
6/17/2024 22:37	64203	KINZ_T1	0	1	1	0	0.1	0.1	0.04	0	1	1	0	600	600	0
6/17/2024 22:37	57401	SPAN_T1	1	0	-1	0.6	0	-0.6	-0.51	-0.54	1	1	0	600	600	0
6/17/2024 22:37	64204	KINZ_T1	1	4	3	0.6	0.38	-0.22	0	0	0	0	0	0	0	0
6/17/2024 22:37	61703	ELIZ_T1	0	0	0	0	0	0	-2.53	-2.62	2	2	0	2100	2100	0
6/17/2024 22:37	66001	BERW_T1	0	0	0	0	0	0	4.6	4.56	0	0	0	0	0	0
6/17/2024 22:37	64201	KINZ_T1	1	7	6	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
6/17/2024 22:37	55002	NEWP_T1	0	0	0	0	0	0	-0.08	-0.11	0	0	0	0	0	0
6/17/2024 22:37	64202	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/17/2024 22:37	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:37	63401	HONY_T1	0	0	0	0	0	0	0.23	0.2	1	1	0	600	600	0
6/17/2024 22:37	42701	AUGU_T1	85	85	0	1.98	1.46	-0.52	0	0	0	0	0	0	0	0
6/17/2024 22:37	53501	EVIL_T2	0	1	1	0	0.1	0.1	-0.8	-0.81	2	2	0	1200	1200	0
6/17/2024 22:37	56802	BENV_T2	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
6/17/2024 22:37	40901	JESH_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/17/2024 22:37	56501	ROCK_T2	3	6	3	2.8	1.92	-0.88	-5.49	-5.88	0	0	0	0	0	0
6/17/2024 22:37	45802	HEGI_T2	45	25	-20	0.86	0.49	-0.37	-0.21	-0.08	2	2	0	1200	1200	0
6/17/2024 22:37	12304	LANA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/17/2024 22:37	67602	WARW_T2	0	0	0	0	0	0	0.06	0.03	2	2	0	1500	1500	0
6/17/2024 22:37	65401	MARI_T1	9	9	0	1.16	0.7	-0.46	0	0	0	0	0	0	0	0
6/17/2024 22:37	12301	LANA_T2	0	0	0	0	0	0	-0.93	-0.96	1	1	0	1200	1200	0
6/17/2024 22:38	66902	SHIL_T2	4	116	112	0.13	0.22	0.09	0	0	0	0	0	0	0	0
6/17/2024 22:38	58003	WCAR_T1	1	0	-1	0.2	0	-0.2	0.81	0.77	1	1	0	600	600	0
6/17/2024 22:38	43201	MVIL_T2	0	0	0	0	0	0	-0.2	-0.15	0	0	0	0	0	0
6/17/2024 22:38	25503	MADI_T1	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
6/17/2024 22:38	22905	HARW_T1	4	1	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/17/2024 22:38	57401	SPAN_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/17/2024 22:38	61701	ELIZ_T1	1	0	-1	1.6	2.2	0.6	0.88	0.82	0	0	0	0	0	0
6/17/2024 22:38	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/17/2024 22:38	61304	EARL_T1	0	0	0	0	0	0	-0.4	-0.43	1	1	0	600	600	0
6/17/2024 22:38	64801	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/17/2024 22:38	48301	ORWI_T1	2	2	0	5.35	5.7	0.35	0.52	0.53	0	0	0	0	0	0
6/17/2024 22:38	21203	ECAR_T1	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
6/17/2024 22:38	64802	MONE_T2	28	10	-18	0.59	0	-0.59	0	0	3	3	0	1800	1800	0
6/17/2024 22:38	48901	FOSP_T2	0	0	0	0	0	0	-0.84	-0.93	3	3	0	1800	1800	0
6/17/2024 22:38	63401	HONY_T1	0	0	0	0	0	0	0.23	0.2	1	1	0	600	600	0
6/17/2024 22:38	61102	BERK_T5	0	0	0	0	0	0	0.44	0.47	1	1	0	300	300	0
6/17/2024 22:38	45501	DERR_T2	0	0	0	0	0	0	0.17	0.11	2	2	0	1800	1800	0
6/17/2024 22:38	64202	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/17/2024 22:38	66504	SMAN_T2	0	0	0	0	0	0	-1.72	-1.68	2	2	0	2400	2400	0
6/17/2024 22:38	56801	BENV_T1	12	8	-4	1.27	1.15	-0.12	-0.91	-0.92	2	2	0	1200	1200	0
6/17/2024 22:38	53601	DALM_T2	1	1	0	0.5	0.1	-0.4	0.02	0.25	1	1	0	600	600	0
6/17/2024 22:38	40602	PIGR_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/17/2024 22:38	29401	BELT_T1	0	2	2	0	0.1	0.1	0	0	1	1	0	900	900	0
6/17/2024 22:38	66903	SHIL_T2	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:38	64204	KINZ_T1	1	4	3	0.6	0.38	-0.22	0	0	0	0	0	0	0	0
6/17/2024 22:38	40502	CRES_T2	14	30	16	0.51	0.47	-0.04	-0.58	-0.7	0	0	0	0	0	0
6/17/2024 22:38	67801	WLAN_T1	0	0	0	0	0	0	0.22	0.15	0	0	0	0	0	0
6/17/2024 22:38	47101	MARL_T1	36	16	-20	0.89	0.93	0.04	-1.02	-1.09	1	1	0	600	600	0
6/17/2024 22:38	56501	ROCK_T2	3	6	3	2.8	1.92	-0.88	-1.83	-1.96	0	0	0	0	0	0
6/17/2024 22:38	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/17/2024 22:38	12701	MACU_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	1200	1200	0
6/17/2024 22:38	64201	KINZ_T1	1	7	6	0.3	0.27	-0.03	-0.13	-0.18	3	3	0	1500	1500	0
6/17/2024 22:38	40501	CRES_T2	7	9	2	0.29	0.51	0.22	0	0	0	0	0	0	0	0
6/17/2024 22:38	42902	MIDD_T2	0	0	0	0	0	0	-0.88	-0.78	1	1	0	600	600	0
6/17/2024 22:38	57403	SPAN_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
6/17/2024 22:38	63804	HEMP_T1	1	1	0	7	6.5	-0.5	-0.18	-0.22	0	0	0	0	0	0
6/17/2024 22:38	44301	BEAV_T2	1	0	-1	0.4	0	-0.4	1.1	1.02	2	2	0	1200	1200	0
6/17/2024 22:38	22901	HARW_T1	0	0	0	0	0	0	-0.28	-0.3	1	1	0	1200	1200	0
6/17/2024 22:38	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:38	66502	SMAN_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
6/17/2024 22:38	22903	HARW_T1	21	14	-7	1.05	0.52	-0.53	0	0	0	0	0	0	0	0
6/17/2024 22:38	66901	SHIL_T2	0	74	74	0	0.23	0.23	-0.6	-0.6	0	0	0	0	0	0
6/17/2024 22:38	43202	MVIL_T2	58	87	29	0.52	0.78	0.26	-0.53	-0.54	0	0	0	0	0	0
6/17/2024 22:38	29402	BELT_T1	1	1	0	8	8.5	0.5	0	0	0	0	0	0	0	0
6/17/2024 22:38	64203	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:38	45502	DERR_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
6/17/2024 22:39	43304	WATS_T2	9	8	-1	0.33	0	-0.33	-0.27	-0.29	0	0	0	0	0	0
6/17/2024 22:39	52404	GRPA_T2	0	0	0	0	0	0	-0.04	-0.11	0	0	0	0	0	0
6/17/2024 22:39	52403	GRPA_T2	17	5	-12	0.64	0.47	-0.17	0	0	0	0	0	0	0	0
6/17/2024 22:39	66502	SMAN_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
6/17/2024 22:39	66503	SMAN_T2	0	0	0	0	0	0	0.86	0.85	0	0	0	0	0	0
6/17/2024 22:39	13503	MCMI_T2	18	11	-7	0.14	0.11	-0.03	-0.71	0.21	0	0	0	0	0	0
6/17/2024 22:39	60803	BUCK_T1	15	14	-1	0.39	0.25	-0.14	0	0	0	0	0	0	0	0
6/17/2024 22:39	40501	CRES_T2	7	9	2	0.29	0.51	0.22	0	0	0	0	0	0	0	0
6/17/2024 22:39	44801	EDAN_T2	2	1	-1	0.75	0.5	-0.25	0.77	0.77	0	0	0	0	0	0
6/17/2024 22:39	46206	DANV_T2	4	2	-2	0.55	0.6	0.05	3.05	3.04	1	1	0	1200	1200	0
6/17/2024 22:39	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/17/2024 22:39	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-1.13	-0.59	0	0	0	0	0	0
6/17/2024 22:39	52402	GRPA_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/17/2024 22:39	10801	CHHI_T1	2	0	-2	0.1	0	-0.1	-1.43	-1.46	3	3	0	2100	2100	0
6/17/2024 22:39	60801	BUCK_T1	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
6/17/2024 22:39	47401	PENS_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
6/17/2024 22:39	67602	WARW_T2	0	0	0	0	0	0	0.06	0.03	2	2	0	1500	1500	0
6/17/2024 22:39	23401	HONE_T2	0	0	0	0	0	0	0.44	0.37	0	0	0	0	0	0
6/17/2024 22:39	40502	CRES_T2	14	30	16	0.51	0.47	-0.04	-0.58	-0.7	0	0	0	0	0	0
6/17/2024 22:39	53501	EVIL_T2	0	1	1	0	0.1	0.1	-0.8	-0.81	2	2	0	1200	1200	0
6/17/2024 22:39	67605	WARW_T1	0	0	0	0	0	0	-1.03	-1.06	0	0	0	0	0	0
6/17/2024 22:39	45802	HEGI_T2	45	25	-20	0.86	0.49	-0.37	-0.21	-0.08	2	2	0	1200	1200	0
6/17/2024 22:39	40902	JESH_T1	0	0	0	0	0	0	-0.81	-0.85	1	1	0	600	600	0
6/17/2024 22:39	52401	GRPA_T2	0	1	1	0	0.5	0.5	-0.34	-0.28	0	0	0	0	0	0
6/17/2024 22:39	40901	JESH_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/17/2024 22:40	60501	NMAN_T2	3	3	0	4.33	5.17	0.84	0	0	0	0	0	0	0	0
6/17/2024 22:40	40502	CRES_T2	14	30	16	0.51	0.47	-0.04	-0.58	-0.7	0	0	0	0	0	0
6/17/2024 22:40	24901	WHHA_T1	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
6/17/2024 22:40	60502	NMAN_T2	0	0	0	0	0	0	0.28	0.22	0	0	0	0	0	0
6/17/2024 22:40	12701	MACU_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	1200	1200	0
6/17/2024 22:40	12606	MACA_T1	30	32	2	1.08	0.26	-0.82	0	0	0	0	0	0	0	0
6/17/2024 22:40	58203	NEWV_T2	1	1	0	5.4	5.5	0.1	-0.81	-0.84	0	0	0	0	0	0
6/17/2024 22:40	67203	TEHI_T1	0	1	1	0	0	0	2.38	2.3	2	2	0	1500	1500	0
6/17/2024 22:40	46206	DANV_T2	4	2	-2	0.55	0.6	0.05	3.05	3.04	1	1	0	1200	1200	0
6/17/2024 22:40	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/17/2024 22:40	55101	WERT_T1	0	0	0	0	0	0	-1.53	-1.56	3	3	0	2400	2400	0
6/17/2024 22:40	61703	ELIZ_T1	0	0	0	0	0	0	-2.53	-2.62	2	2	0	2100	2100	0
6/17/2024 22:40	52002	LING_T2	0	0	0	0	0	0	-0.21	0.6	0	0	0	0	0	0
6/17/2024 22:40	14403	SSLA_T1	0	0	0	0	0	0	1.94	1.9	0	0	0	0	0	0
6/17/2024 22:40	61701	ELIZ_T1	1	1	0	1.6	2.2	0.6	0	0	0	0	0	0	0	0
6/17/2024 22:40	56802	BENV_T2	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
6/17/2024 22:40	29401	BELT_T1	0	2	2	0	0.1	0.1	0	0	1	1	0	900	900	0
6/17/2024 22:40	63304	GREE_T1	0	0	0	0	0	0	-1.15	-1.21	0	0	0	0	0	0
6/17/2024 22:40	52403	GRPA_T2	17	5	-12	0.64	0.47	-0.17	0	0	0	0	0	0	0	0
6/17/2024 22:40	67401	WAKE_T2	382	410	28	0.73	0.72	-0.01	0	0	0	0	0	0	0	0
6/17/2024 22:40	14404	SSLA_T1	1	1	0	3.3	3.7	0.4	0	0	0	0	0	0	0	0
6/17/2024 22:40	67103	SPRI_T1	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
6/17/2024 22:40	10801	CHHI_T1	2	0	-2	0.1	0	-0.1	-1.43	-1.46	3	3	0	2100	2100	0
6/17/2024 22:40	46001	BERW_T1	0	0	0	0	0	0	1.15	1.14	0	0	0	0	0	0
6/17/2024 22:40	52404	GRPA_T2	0	0	0	0	0	0	-0.04	-0.11	0	0	0	0	0	0
6/17/2024 22:40	12601	MACA_T1	0	0	0	0	0	0	1.2	1.2	0	0	0	0	0	0
6/17/2024 22:40	44601	SALE_T2	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
6/17/2024 22:40	63305	GREE_T1	14	3	-11	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
6/17/2024 22:40	67402	WAKE_T2	22	23	1	0.32	0.3	-0.02	0.72	0.71	0	0	0	0	0	0
6/17/2024 22:40	67604	WARW_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
6/17/2024 22:40	52402	GRPA_T2	2	0	-2	0.3	0	-0.3	-0.69	-0.53	0	0	0	0	0	0
6/17/2024 22:40	42903	MIDD_T2	0	2	2	0	0.2	0.2	-1.11	-1.17	1	1	0	1200	1200	0
6/17/2024 22:40	24702	FLND_T2	0	0	0	0	0	0	0.02	0.32	1	1	0	1200	1200	0
6/17/2024 22:40	24902	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:40	45402	WBLO_T2	41	72	31	0.26	0.42	0.16	-1.27	-1.25	1	1	0	900	900	0
6/17/2024 22:40	46203	DANV_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
6/17/2024 22:40	46101	MACJ_T2	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
6/17/2024 22:40	40501	CRES_T2	7	9	2	0.29	0.51	0.22	0	0	0	0	0	0	0	0
6/17/2024 22:40	29402	BELT_T1	1	1	0	8	8.5	0.5	0	0	0	0	0	0	0	0
6/17/2024 22:40	67002	STHI_T2	0	0	0	0	0	0	0.62	0.6	1	1	0	600	600	0
6/17/2024 22:41	53902	HALI_T2	1	1	0	3.9	4.3	0.4	0	0	0	0	0	0	0	0
6/17/2024 22:41	20601	GRWO_T2	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
6/17/2024 22:41	52403	GRPA_T2	17	5	-12	0.64	0.47	-0.17	0	0	0	0	0	0	0	0
6/17/2024 22:41	67402	WAKE_T2	22	23	1	0.32	0.3	-0.02	0.72	0.71	0	0	0	0	0	0
6/17/2024 22:41	61703	ELIZ_T1	0	0	0	0	0	0	-2.53	-2.62	2	2	0	2100	2100	0
6/17/2024 22:41	52402	GRPA_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/17/2024 22:41	52002	LING_T2	0	0	0	0	0	0	-0.21	0.6	0	0	0	0	0	0
6/17/2024 22:41	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/17/2024 22:41	52404	GRPA_T2	0	0	0	0	0	0	-0.04	-0.11	0	0	0	0	0	0
6/17/2024 22:41	67204	TEHI_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
6/17/2024 22:41	20603	GRWO_T2	0	0	0	0	0	0	-0.42	-0.44	1	1	0	900	900	0
6/17/2024 22:41	67401	WAKE_T2	382	410	28	0.73	0.72	-0.01	0	0	0	0	0	0	0	0
6/17/2024 22:41	27005	BELL_T1	0	0	0	0	0	0	-1.19	-1.18	0	0	0	0	0	0
6/17/2024 22:41	47101	MARL_T1	36	16	-20	0.89	0.93	0.04	-2.04	-2.18	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/17/2024 22:41	65604	QVIL_T2	1	1	0	1.1	0.7	-0.4	0.66	0.65	0	0	0	0	0	0
6/17/2024 22:41	20401	ASHF_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/17/2024 22:41	65401	MARI_T1	9	9	0	1.16	0.7	-0.46	0	0	0	0	0	0	0	0
6/17/2024 22:41	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:41	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:41	55101	WERT_T1	0	0	0	0	0	0	-1.53	-1.56	3	3	0	2400	2400	0
6/17/2024 22:41	53501	EVIL_T2	0	1	1	0	0.1	0.1	-0.8	-0.81	2	2	0	1200	1200	0
6/17/2024 22:41	43202	MVIL_T2	58	87	29	0.52	0.78	0.26	-0.53	-0.54	0	0	0	0	0	0
6/17/2024 22:41	10805	CHHI_T2	7	1	-6	1.53	8.7	7.17	-0.83	-0.87	1	1	0	600	600	0
6/17/2024 22:41	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-1.13	-0.59	0	0	0	0	0	0
6/17/2024 22:41	40502	CRES_T2	14	30	16	0.51	0.47	-0.04	-0.29	-0.35	0	0	0	0	0	0
6/17/2024 22:41	40501	CRES_T2	7	9	2	0.29	0.51	0.22	0	0	0	0	0	0	0	0
6/17/2024 22:41	61701	ELIZ_T1	1	1	0	1.6	2.2	0.6	0	0	0	0	0	0	0	0
6/17/2024 22:41	56501	ROCK_T2	3	6	3	2.8	1.92	-0.88	-1.83	-1.96	0	0	0	0	0	0
6/17/2024 22:41	54701	NEBL_T1	1	1	0	0.8	1.3	0.5	0	0	1	1	0	600	600	0
6/17/2024 22:41	20403	ASHF_T2	0	0	0	0	0	0	0.67	0.58	0	0	0	0	0	0
6/17/2024 22:41	23401	HONE_T2	0	0	0	0	0	0	0.44	0.37	0	0	0	0	0	0
6/17/2024 22:41	56801	BENV_T1	12	8	-4	1.27	1.15	-0.12	-0.91	-0.92	2	2	0	1200	1200	0
6/17/2024 22:41	67602	WARW_T2	0	0	0	0	0	0	0.12	0.05	4	4	0	3000	3000	0
6/17/2024 22:41	45501	DERR_T2	0	0	0	0	0	0	0.34	0.22	4	4	0	3600	3600	0
6/17/2024 22:41	53903	HALI_T2	2	2	0	0.1	0.45	0.35	-0.1	-0.1	0	0	0	0	0	0
6/17/2024 22:42	61703	ELIZ_T1	0	0	0	0	0	0	-2.53	-2.62	2	2	0	2100	2100	0
6/17/2024 22:42	52402	GRPA_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/17/2024 22:42	61304	EARL_T1	0	0	0	0	0	0	-0.4	-0.43	1	1	0	600	600	0
6/17/2024 22:42	20401	ASHF_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/17/2024 22:42	65902	SAKR_T2	0	0	0	0	0	0	-0.47	-0.41	1	1	0	300	300	0
6/17/2024 22:42	20403	ASHF_T2	0	0	0	0	0	0	0.67	0.58	0	0	0	0	0	0
6/17/2024 22:42	43202	MVIL_T2	58	87	29	0.52	0.78	0.26	-0.53	-0.54	0	0	0	0	0	0
6/17/2024 22:42	52002	LING_T2	0	0	0	0	0	0	-0.21	0.6	0	0	0	0	0	0
6/17/2024 22:42	40501	CRES_T2	7	9	2	0.29	0.51	0.22	0	0	0	0	0	0	0	0
6/17/2024 22:42	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/17/2024 22:42	64101	REFR_T1	1	0	-1	0.4	0	-0.4	1.5	1.37	0	0	0	0	0	0
6/17/2024 22:42	48302	ORWI_T2	2	2	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
6/17/2024 22:42	40502	CRES_T2	14	30	16	0.51	0.47	-0.04	-0.29	-0.35	0	0	0	0	0	0
6/17/2024 22:42	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/17/2024 22:42	14204	EALL_T2	0	0	0	0	0	0	-0.34	-0.4	0	0	0	0	0	0
6/17/2024 22:42	42201	SHEN_T2	0	0	0	0	0	0	0.22	0.18	2	2	0	1200	1200	0
6/17/2024 22:42	67201	TEHI_T1	0	0	0	0	0	0	-0.43	-0.44	1	1	0	600	600	0
6/17/2024 22:42	67203	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:42	55002	NEWP_T1	0	0	0	0	0	0	-0.08	-0.11	0	0	0	0	0	0
6/17/2024 22:42	48303	ORWI_T2	0	0	0	0	0	0	0.71	1.29	0	0	0	0	0	0
6/17/2024 22:42	61701	ELIZ_T1	1	1	0	1.6	2.2	0.6	0	0	0	0	0	0	0	0
6/17/2024 22:42	48301	ORWI_T1	2	2	0	5.35	5.7	0.35	0.52	0.53	0	0	0	0	0	0
6/17/2024 22:42	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/17/2024 22:42	52403	GRPA_T2	17	5	-12	0.64	0.47	-0.17	-0.15	-0.22	0	0	0	0	0	0
6/17/2024 22:42	65901	SAKR_T2	1	1	0	7.4	7.1	-0.3	0	0	0	0	0	0	0	0
6/17/2024 22:42	56501	ROCK_T2	3	6	3	2.8	1.92	-0.88	-1.83	-1.96	0	0	0	0	0	0
6/17/2024 22:43	47101	MARL_T1	36	16	-20	0.89	0.93	0.04	-1.02	-1.09	1	1	0	600	600	0
6/17/2024 22:43	46206	DANV_T2	4	2	-2	0.55	0.6	0.05	3.05	3.04	1	1	0	1200	1200	0
6/17/2024 22:43	56504	ROCK_T2	0	0	0	0	0	0	-0.8	-0.84	0	0	0	0	0	0
6/17/2024 22:43	44801	EDAN_T2	2	1	-1	0.75	0.5	-0.25	0.77	0.77	0	0	0	0	0	0
6/17/2024 22:43	53902	HALI_T2	1	1	0	3.9	4.3	0.4	0	0	0	0	0	0	0	0
6/17/2024 22:43	11804	FRAN_T1	17	0	-17	0.35	0	-0.35	0.02	-0.04	1	1	0	1200	1200	0
6/17/2024 22:43	47401	PENS_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
6/17/2024 22:43	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:43	64101	REFR_T1	1	0	-1	0.4	0	-0.4	1.12	1.03	0	0	0	0	0	0
6/17/2024 22:43	58702	ROSE_T2	1	0	-1	6.1	4.1	-2	0	0	0	0	0	0	0	0
6/17/2024 22:43	67605	WARW_T1	0	0	0	0	0	0	-1.03	-1.06	0	0	0	0	0	0
6/17/2024 22:43	53903	HALI_T2	2	2	0	0.1	0.45	0.35	-0.1	-0.1	0	0	0	0	0	0
6/17/2024 22:43	58706	ROSE_T2	1	1	0	0.7	1.5	0.8	0	0	0	0	0	0	0	0
6/17/2024 22:43	58705	ROSE_T2	5	5	0	0.4	0.74	0.34	0	0	0	0	0	0	0	0
6/17/2024 22:43	57401	SPAN_T1	1	0	-1	0.6	0	-0.6	-0.51	-0.54	1	1	0	600	600	0
6/17/2024 22:43	56501	ROCK_T2	3	6	3	2.8	1.92	-0.88	0	0	0	0	0	0	0	0
6/17/2024 22:43	20603	GRWO_T2	0	0	0	0	0	0	-0.42	-0.44	1	1	0	900	900	0
6/17/2024 22:43	52002	LING_T2	0	0	0	0	0	0	-0.21	0.6	0	0	0	0	0	0
6/17/2024 22:43	58701	ROSE_T2	0	0	0	0	0	0	-0.87	-0.9	1	1	0	600	600	0
6/17/2024 22:43	20601	GRWO_T2	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
6/17/2024 22:43	45501	DERR_T2	0	0	0	0	0	0	0.34	0.22	4	4	0	3600	3600	0
6/17/2024 22:43	53501	EVIL_T2	0	1	1	0	0.1	0.1	-0.8	-0.81	2	2	0	1200	1200	0
6/17/2024 22:44	57403	SPAN_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
6/17/2024 22:44	40901	JESH_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/17/2024 22:44	52403	GRPA_T2	17	5	-12	0.64	0.47	-0.17	-0.15	-0.22	0	0	0	0	0	0
6/17/2024 22:44	55101	WERT_T1	0	0	0	0	0	0	-3.07	-3.11	6	6	0	4800	4800	0
6/17/2024 22:44	40502	CRES_T2	14	30	16	0.51	0.47	-0.04	-0.29	-0.35	0	0	0	0	0	0
6/17/2024 22:44	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/17/2024 22:44	47401	PENS_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
6/17/2024 22:44	42902	MIDD_T2	0	0	0	0	0	0	-0.88	-0.78	1	1	0	600	600	0
6/17/2024 22:44	40902	JESH_T1	0	0	0	0	0	0	-0.81	-0.85	1	1	0	600	600	0
6/17/2024 22:44	58706	ROSE_T2	1	1	0	0.7	1.5	0.8	1.01	0.95	1	1	0	600	600	0
6/17/2024 22:44	61802	EELI_T2	8	8	0	0.79	0.16	-0.63	0	0	0	0	0	0	0	0
6/17/2024 22:44	57401	SPAN_T1	1	0	-1	0.6	0	-0.6	-0.51	-0.54	1	1	0	600	600	0
6/17/2024 22:44	61801	EELI_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
6/17/2024 22:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:44	53903	HALI_T2	2	2	0	0.1	0.45	0.35	0	0	0	0	0	0	0	0
6/17/2024 22:44	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/17/2024 22:44	53902	HALI_T2	1	1	0	3.9	4.3	0.4	-0.63	-0.59	0	0	0	0	0	0
6/17/2024 22:44	58705	ROSE_T2	5	5	0	0.4	0.74	0.34	0	0	0	0	0	0	0	0
6/17/2024 22:44	40501	CRES_T2	7	9	2	0.29	0.51	0.22	0	0	0	0	0	0	0	0
6/17/2024 22:44	56801	BENV_T1	12	8	-4	1.27	1.15	-0.12	-0.91	-0.92	2	2	0	1200	1200	0
6/17/2024 22:44	58702	ROSE_T2	1	1	0	6.1	4.1	-2	0	0	0	0	0	0	0	0
6/17/2024 22:44	67204	TEHI_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
6/17/2024 22:44	52402	GRPA_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/17/2024 22:44	46001	BERW_T1	0	0	0	0	0	0	1.15	1.14	0	0	0	0	0	0
6/17/2024 22:45	52401	GRPA_T2	1	2	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:45	64203	KINZ_T1	0	1	1	0	0.1	0.1	0.04	0	1	1	0	600	600	0
6/17/2024 22:45	52402	GRPA_T2	0	1	1	0	0.1	0.1	-0.69	-0.53	0	0	0	0	0	0
6/17/2024 22:45	64201	KINZ_T1	1	7	6	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
6/17/2024 22:45	67605	WARW_T1	0	0	0	0	0	0	-1.03	-1.06	0	0	0	0	0	0
6/17/2024 22:45	66703	STRA_T1	0	0	0	0	0	0	0.18	0.13	0	0	0	0	0	0
6/17/2024 22:45	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2024 22:45	64204	KINZ_T1	1	4	3	0.5	0.38	-0.12	0	0	0	0	0	0	0	0
6/17/2024 22:45	40501	CRES_T2	9	15	6	0.51	0.43	-0.08	0	0	0	0	0	0	0	0
6/17/2024 22:45	40502	CRES_T2	25	38	13	0.47	0.56	0.09	-0.58	-0.7	0	0	0	0	0	0
6/17/2024 22:45	55101	WERT_T1	0	0	0	0	0	0	-3.07	-3.11	6	6	0	4800	4800	0
6/17/2024 22:45	52403	GRPA_T2	5	3	-2	1.3	0.47	-0.83	0	0	0	0	0	0	0	0
6/17/2024 22:45	56801	BENV_T1	8	8	0	1.11	0.94	-0.17	-1.82	-1.84	4	4	0	2400	2400	0
6/17/2024 22:45	64202	KINZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:46	61702	ELIZ_T2	0	0	0	0	0	0	-1.67	-1.66	2	2	0	1500	1500	0
6/17/2024 22:46	47101	MARL_T1	16	12	-4	1.57	0	-1.57	-1.02	-1.09	1	1	0	600	600	0
6/17/2024 22:46	42701	AUGU_T1	84	84	0	1.64	1.33	-0.31	0	0	0	0	0	0	0	0
6/17/2024 22:46	52401	GRPA_T2	1	2	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:46	48302	ORWI_T2	2	2	0	1.25	1.35	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:46	46302	ROHR_T1	42	28	-14	0.34	0.4	0.06	0.37	0.36	0	0	0	0	0	0
6/17/2024 22:46	40501	CRES_T2	9	15	6	0.51	0.43	-0.08	0	0	0	0	0	0	0	0
6/17/2024 22:46	52403	GRPA_T2	5	3	-2	1.3	0.47	-0.83	-0.15	-0.22	0	0	0	0	0	0
6/17/2024 22:46	40502	CRES_T2	25	38	13	0.47	0.56	0.09	-0.58	-0.7	0	0	0	0	0	0
6/17/2024 22:46	46301	ROHR_T1	257	239	-18	0.61	0.56	-0.05	0	0	0	0	0	0	0	0
6/17/2024 22:46	48303	ORWI_T2	0	0	0	0	0	0	0.71	1.29	0	0	0	0	0	0
6/17/2024 22:46	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:47	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:47	53903	HALI_T2	2	2	0	0.45	0.65	0.2	-0.1	-0.1	0	0	0	0	0	0
6/17/2024 22:47	66504	SMAN_T2	0	0	0	0	0	0	-0.86	-0.84	1	1	0	1200	1200	0
6/17/2024 22:47	53501	EVIL_T2	0	3	3	0	0.2	0.2	-0.8	-0.81	2	2	0	1200	1200	0
6/17/2024 22:47	41903	REED_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/17/2024 22:47	55101	WERT_T1	0	0	0	0	0	0	-1.53	-1.56	3	3	0	2400	2400	0
6/17/2024 22:47	45402	WBLO_T2	72	56	-16	0.42	0.32	-0.1	-1.27	-1.25	1	1	0	900	900	0
6/17/2024 22:47	52401	GRPA_T2	1	2	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:47	41902	REED_T1	0	0	0	0	0	0	0.5	0.51	1	1	0	900	900	0
6/17/2024 22:47	53902	HALI_T2	1	1	0	4.2	4.7	0.5	0	0	0	0	0	0	0	0
6/17/2024 22:47	52403	GRPA_T2	5	3	-2	1.3	0.47	-0.83	-0.15	-0.22	0	0	0	0	0	0
6/17/2024 22:47	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/17/2024 22:48	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/17/2024 22:48	44301	BEAV_T2	0	0	0	0	0	0	0.55	0.51	1	1	0	600	600	0
6/17/2024 22:48	63305	GREE_T1	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/17/2024 22:48	56501	ROCK_T2	5	8	3	2.12	1.5	-0.62	0	0	0	0	0	0	0	0
6/17/2024 22:48	63304	GREE_T1	0	0	0	0	0	0	-1.15	-1.21	0	0	0	0	0	0
6/17/2024 22:48	41903	REED_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/17/2024 22:48	56504	ROCK_T2	0	0	0	0	0	0	-0.8	-0.84	0	0	0	0	0	0
6/17/2024 22:48	41902	REED_T1	0	0	0	0	0	0	0.5	0.51	1	1	0	900	900	0
6/17/2024 22:49	61304	EARL_T1	0	0	0	0	0	0	-0.4	-0.43	1	1	0	600	600	0
6/17/2024 22:49	67402	WAKE_T2	11	23	12	0.26	0.3	0.04	0.72	0.71	0	0	0	0	0	0
6/17/2024 22:49	56801	BENV_T1	8	8	0	1.11	0.94	-0.17	-1.82	-1.84	4	4	0	2400	2400	0
6/17/2024 22:49	67401	WAKE_T2	298	408	110	0.58	0.72	0.14	0	0	0	0	0	0	0	0
6/17/2024 22:50	42903	MIDD_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/17/2024 22:50	42902	MIDD_T2	0	0	0	0	0	0	-0.88	-0.78	1	1	0	600	600	0
6/17/2024 22:50	47101	MARL_T1	16	12	-4	1.57	0	-1.57	-1.02	-1.09	1	1	0	600	600	0
6/17/2024 22:51	53903	HALI_T2	2	2	0	0.45	0.65	0.2	-0.1	-0.1	0	0	0	0	0	0
6/17/2024 22:51	52002	LING_T2	0	0	0	0	0	0	-0.21	0.6	0	0	0	0	0	0
6/17/2024 22:51	53902	HALI_T2	1	1	0	4.2	4.7	0.5	0	0	0	0	0	0	0	0
6/17/2024 22:55	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:55	52401	GRPA_T2	1	2	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/17/2024 22:55	52403	GRPA_T2	5	3	-2	1.3	0.47	-0.83	-0.22	-0.18	0	0	0	0	0	0
6/17/2024 23:16	63401	HONY_T1	0	0	0	0	0	0	0.15	0.13	1	1	0	600	600	0
6/18/2024 0:54	67605	WARW_T1	0	0	0	0	0	0	-1.03	-0.95	0	0	0	0	0	0
6/18/2024 1:13	42201	SHEN_T2	0	0	0	0	0	0	0	0.59	1	0	-1	600	0	-600
6/18/2024 1:52	65901	SAKR_T2	1	1	0	8.3	7.9	-0.4	-0.85	-0.73	1	1	0	900	900	0
6/18/2024 1:58	64203	KINZ_T1	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
6/18/2024 1:58	64204	KINZ_T1	9	23	14	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
6/18/2024 1:58	64202	KINZ_T1	3	4	1	0.37	0.48	0.11	0	0	0	0	0	0	0	0
6/18/2024 1:58	64201	KINZ_T1	5	6	1	0.38	0.38	0	0	0	0	0	0	0	0	0
6/18/2024 1:59	64204	KINZ_T1	9	23	14	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
6/18/2024 1:59	64202	KINZ_T1	3	4	1	0.37	0.48	0.11	0	0	0	0	0	0	0	0
6/18/2024 1:59	64203	KINZ_T1	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/18/2024 1:59	64201	KINZ_T1	5	6	1	0.38	0.38	0	0	0	0	0	0	0	0	0
6/18/2024 5:07	64201	KINZ_T1	5	0	-5	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/18/2024 5:07	64204	KINZ_T1	1	1	0	1.1	0.2	-0.9	0	0	0	0	0	0	0	0
6/18/2024 5:07	64202	KINZ_T1	2	0	-2	0.25	0	-0.25	0.52	0.52	0	0	0	0	0	0
6/18/2024 6:20	43304	WATS_T2	0	1	1	0	0	0	-0.74	-0.72	0	0	0	0	0	0
6/18/2024 6:20	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/18/2024 6:23	40502	CRES_T2	8	8	0	0.69	0.4	-0.29	0.73	0.7	0	0	0	0	0	0
6/18/2024 6:23	40501	CRES_T2	5	1	-4	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
6/18/2024 6:24	10103	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 6:24	10205	ALLE_T3	2	2	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/18/2024 6:24	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 6:24	10105	ALLE_T3	12	12	0	1.57	1.24	-0.33	0	0	0	0	0	0	0	0
6/18/2024 6:26	40502	CRES_T2	8	8	0	0.69	0.4	-0.29	0.73	0.7	0	0	0	0	0	0
6/18/2024 6:26	40501	CRES_T2	5	1	-4	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
6/18/2024 6:29	40501	CRES_T2	5	1	-4	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
6/18/2024 6:29	40502	CRES_T2	8	8	0	0.69	0.4	-0.29	0.73	0.7	0	0	0	0	0	0
6/18/2024 6:40	40501	CRES_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/18/2024 6:40	40502	CRES_T2	8	8	0	0.38	0.63	0.25	1.4	1.44	0	0	0	0	0	0
6/18/2024 6:50	14404	SSLA_T1	1	1	0	4.7	4.8	0.1	0.03	0.03	0	0	0	0	0	0
6/18/2024 6:52	67001	STHI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/18/2024 6:52	67002	STHI_T2	0	0	0	0	0	0	0.97	0.94	0	0	0	0	0	0
6/18/2024 6:56	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 6:56	10105	ALLE_T3	12	12	0	1.63	1.09	-0.54	0	0	0	0	0	0	0	0
6/18/2024 6:56	10103	ALLE_T3	1	1	0	4.7	0.2	-4.5	0	0	0	0	0	0	0	0
6/18/2024 6:57	22001	BOHE_T1	0	11	11	0	0.1	0.1	0	0	0	0	0	0	0	0
6/18/2024 6:57	22002	BOHE_T1	0	1	1	0	0.2	0.2	0.37	0.44	0	0	0	0	0	0
6/18/2024 6:57	22003	BOHE_T1	3	27	24	0.47	0.26	-0.21	0	0	0	0	0	0	0	0
6/18/2024 7:06	67605	WARW_T1	7	2	-5	0.3	0.1	-0.2	-0.8	-0.87	0	0	0	0	0	0
6/18/2024 7:06	15204	SFAR_T2	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
6/18/2024 7:09	62607	ENGL_T1	1	1	0	1	0	-1	-0.7	-0.67	1	1	0	300	300	0
6/18/2024 7:11	62604	ENGL_T1	0	0	0	0	0	0	-1.1	-1.15	1	1	0	600	600	0
6/18/2024 7:11	62607	ENGL_T1	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
6/18/2024 7:12	22003	BOHE_T1	9	27	18	0.24	0.26	0.02	0	0	0	0	0	0	0	0
6/18/2024 7:12	54505	ENOL_T2	0	0	0	0	0	0	-1.15	-1.12	1	1	0	600	600	0
6/18/2024 7:12	22002	BOHE_T1	0	1	1	0	0.2	0.2	0.44	0.44	0	0	0	0	0	0
6/18/2024 7:12	22001	BOHE_T1	0	11	11	0	0.1	0.1	0	0	0	0	0	0	0	0
6/18/2024 7:19	58402	MORO_T1	0	1	1	0	0.1	0.1	-0.57	-0.57	3	3	0	2400	2400	0
6/18/2024 7:19	58401	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 7:23	22003	BOHE_T1	27	12	-15	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
6/18/2024 7:23	22001	BOHE_T1	11	0	-11	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/18/2024 7:23	22002	BOHE_T1	1	0	-1	0.2	0	-0.2	0.44	0.49	0	0	0	0	0	0
6/18/2024 7:24	45502	DERR_T2	9	17	8	0.44	0.83	0.39	0.31	0.3	1	1	0	300	300	0
6/18/2024 7:24	45501	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 7:24	15703	TANN_T2	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
6/18/2024 7:24	15702	TANN_T2	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
6/18/2024 7:26	20401	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/18/2024 7:26	20403	ASHF_T2	0	0	0	0	0	0	0.91	1.25	0	0	0	0	0	0
6/18/2024 7:27	45502	DERR_T2	9	17	8	0.44	0.83	0.39	0	0	0	0	0	0	0	0
6/18/2024 7:27	45501	DERR_T2	0	1	1	0	0	0	0.81	0.82	2	2	0	1800	1800	0
6/18/2024 7:29	45501	DERR_T2	0	1	1	0	0	0	0.81	0.82	2	2	0	1800	1800	0
6/18/2024 7:29	45502	DERR_T2	9	17	8	0.44	0.83	0.39	0	0	0	0	0	0	0	0
6/18/2024 7:29	23401	HONE_T2	0	1	1	0	0	0	0.44	0.47	0	0	0	0	0	0
6/18/2024 7:33	53501	EVIL_T2	3	3	0	0.4	1	0.6	0	0	0	0	0	0	0	0
6/18/2024 7:33	43202	MVIL_T2	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
6/18/2024 7:33	53502	EVIL_T2	1	1	0	1.1	0.7	-0.4	1.01	1.1	1	1	0	600	600	0
6/18/2024 7:36	55002	NEWP_T1	5	4	-1	0.72	0.63	-0.09	0	0	0	0	0	0	0	0
6/18/2024 7:36	55001	NEWP_T1	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
6/18/2024 7:37	58006	WCAR_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
6/18/2024 7:40	21203	ECAR_T1	0	0	0	0	0	0	0.93	-0.09	0	0	0	0	0	0
6/18/2024 7:43	63305	GREE_T1	0	0	0	0	0	0	-1.9	-1.69	1	1	0	900	900	0
6/18/2024 7:46	63305	GREE_T1	0	0	0	0	0	0	-1.9	-1.69	1	1	0	900	900	0
6/18/2024 7:47	13302	ORVI_T2	1	1	0	0.2	0.3	0.1	0.08	0.12	0	0	0	0	0	0
6/18/2024 7:48	13302	ORVI_T2	1	1	0	0.2	0.3	0.1	0.08	0.12	0	0	0	0	0	0
6/18/2024 7:49	13302	ORVI_T2	1	1	0	0.2	0.3	0.1	0.08	0.12	0	0	0	0	0	0
6/18/2024 7:49	56501	ROCK_T2	4	29	25	4.13	0.75	-3.38	-6.54	-6.72	0	0	0	0	0	0
6/18/2024 7:51	56501	ROCK_T2	4	29	25	4.13	0.75	-3.38	-4.36	-4.48	0	0	0	0	0	0
6/18/2024 7:55	16301	ALPA_T1	0	1	1	0	0.1	0.1	0.11	0.13	0	0	0	0	0	0
6/18/2024 7:57	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 8:04	67103	SPRI_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
6/18/2024 8:06	67103	SPRI_T1	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
6/18/2024 8:07	20401	ASHF_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/18/2024 8:07	20403	ASHF_T2	0	0	0	0	0	0	1.19	1.28	0	0	0	0	0	0
6/18/2024 8:07	45602	WOOL_T1	0	0	0	0	0	0	0.91	0.94	0	0	0	0	0	0
6/18/2024 8:08	67103	SPRI_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
6/18/2024 8:09	45602	WOOL_T1	0	0	0	0	0	0	0.91	0.94	0	0	0	0	0	0
6/18/2024 8:09	67106	SPRI_T2	0	0	0	0	0	0	-0.92	-0.9	1	1	0	900	900	0
6/18/2024 8:10	45602	WOOL_T1	0	0	0	0	0	0	0.91	0.94	0	0	0	0	0	0
6/18/2024 8:10	67803	WLAN_T1	0	0	0	0	0	0	-1.24	-1.21	0	0	0	0	0	0
6/18/2024 8:13	67106	SPRI_T2	0	0	0	0	0	0	-0.92	-0.9	1	1	0	900	900	0
6/18/2024 8:13	67103	SPRI_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
6/18/2024 8:14	67106	SPRI_T2	0	0	0	0	0	0	-0.92	-0.9	1	1	0	900	900	0
6/18/2024 8:16	67106	SPRI_T2	0	0	0	0	0	0	-1.84	-1.8	2	2	0	1800	1800	0
6/18/2024 8:17	67106	SPRI_T2	0	0	0	0	0	0	-0.92	-0.9	1	1	0	900	900	0
6/18/2024 8:24	16102	BING_T2	0	0	0	0	0	0	0.25	0.3	1	1	0	1200	1200	0
6/18/2024 8:25	67103	SPRI_T1	0	0	0	0	0	0	0.26	0.35	0	0	0	0	0	0
6/18/2024 8:34	16902	MECK_T1	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
6/18/2024 8:36	57403	SPAN_T1	0	6	6	0	0.17	0.17	0.2	0.16	0	0	0	0	0	0
6/18/2024 8:37	57403	SPAN_T1	0	6	6	0	0.17	0.17	0.16	0.27	0	0	0	0	0	0
6/18/2024 8:38	22003	BOHE_T1	35	57	22	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
6/18/2024 8:38	22002	BOHE_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/18/2024 8:38	22001	BOHE_T1	30	85	55	0.12	0.14	0.02	0.35	0.37	0	0	0	0	0	0
6/18/2024 8:39	56802	BENV_T2	1	1	0	0.3	0.2	-0.1	-2	-0.5	0	0	0	0	0	0
6/18/2024 8:40	43304	WATS_T2	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
6/18/2024 8:41	56802	BENV_T2	1	1	0	0.3	0.2	-0.1	-1	-0.25	0	0	0	0	0	0
6/18/2024 8:43	22002	BOHE_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/18/2024 8:43	22001	BOHE_T1	30	85	55	0.12	0.14	0.02	0.35	0.37	0	0	0	0	0	0
6/18/2024 8:43	22003	BOHE_T1	35	57	22	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
6/18/2024 8:45	56802	BENV_T2	1	4	3	0.2	0	-0.2	-1	-0.25	0	0	0	0	0	0
6/18/2024 8:48	22602	KIMB_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
6/18/2024 8:49	67605	WARW_T1	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
6/18/2024 8:50	60502	NMAN_T2	0	0	0	0	0	0	0.33	0.45	0	0	0	0	0	0
6/18/2024 8:50	60501	NMAN_T2	3	3	0	2.93	3.17	0.24	0	0	0	0	0	0	0	0
6/18/2024 8:51	60502	NMAN_T2	0	0	0	0	0	0	0.45	0.37	0	0	0	0	0	0
6/18/2024 8:51	60501	NMAN_T2	3	3	0	2.93	3.17	0.24	0	0	0	0	0	0	0	0
6/18/2024 8:52	58001	WCAR_T1	4	4	0	1.13	0.73	-0.4	0.19	0.21	0	0	0	0	0	0
6/18/2024 8:52	58003	WCAR_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
6/18/2024 8:54	29402	BELT_T1	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
6/18/2024 8:54	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/18/2024 8:56	10805	CHHI_T2	5	6	1	2.18	2.73	0.55	-0.12	-0.15	1	1	0	600	600	0
6/18/2024 9:03	43202	MVIL_T2	29	1	-28	0.21	0.4	0.19	-0.38	-0.35	0	0	0	0	0	0
6/18/2024 9:04	50701	SMEC_T1	0	0	0	0	0	0	-0.06	0.05	0	0	0	0	0	0
6/18/2024 9:06	46301	ROHR_T1	49	3	-46	0.17	0.23	0.06	0	0	0	0	0	0	0	0
6/18/2024 9:06	46302	ROHR_T1	2	3	1	2.7	2.45	-0.25	0.33	0.36	0	0	0	0	0	0
6/18/2024 9:06	43202	MVIL_T2	29	1	-28	0.21	0.4	0.19	-0.35	-0.32	0	0	0	0	0	0
6/18/2024 9:07	46301	ROHR_T1	49	3	-46	0.17	0.23	0.06	0	0	0	0	0	0	0	0
6/18/2024 9:07	46302	ROHR_T1	2	3	1	2.7	2.45	-0.25	0.33	0.36	0	0	0	0	0	0
6/18/2024 9:09	50701	SMEC_T1	0	0	0	0	0	0	0.05	-0.06	0	0	0	0	0	0
6/18/2024 9:09	67605	WARW_T1	0	0	0	0	0	0	-0.72	-0.68	0	0	0	0	0	0
6/18/2024 9:10	67605	WARW_T1	0	0	0	0	0	0	-0.72	-0.68	0	0	0	0	0	0
6/18/2024 9:12	10805	CHHI_T2	4	16	12	3.05	1.93	-1.12	-0.15	-0.03	1	1	0	600	600	0
6/18/2024 9:18	40101	HUNT_T2	7	54	47	0.43	0.57	0.14	-0.24	-0.08	0	0	0	0	0	0
6/18/2024 9:21	54201	PENN_T1	58	13	-45	0.32	0.42	0.1	0	0	0	0	0	0	0	0
6/18/2024 9:21	54203	PENN_T1	18	10	-8	0.51	0.38	-0.13	0.84	0.89	0	0	0	0	0	0
6/18/2024 9:23	67103	SPRI_T1	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
6/18/2024 9:26	44801	EDAN_T2	1	1	0	0.4	0.7	0.3	0.87	0.89	0	0	0	0	0	0
6/18/2024 9:27	44801	EDAN_T2	1	1	0	0.4	0.7	0.3	0.87	0.89	0	0	0	0	0	0
6/18/2024 9:28	20601	GRWO_T2	0	0	0	0	0	0	0.42	0.35	0	0	0	0	0	0
6/18/2024 9:28	47001	HUGH_T2	0	0	0	0	0	0	-0.19	-0.16	0	0	0	0	0	0
6/18/2024 9:29	47001	HUGH_T2	0	0	0	0	0	0	-0.19	-0.16	0	0	0	0	0	0
6/18/2024 9:33	41902	REED_T1	1	2	1	0.1	0.2	0.1	0.61	0.6	0	0	0	0	0	0
6/18/2024 9:33	41901	REED_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/18/2024 9:33	41903	REED_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
6/18/2024 9:34	41903	REED_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
6/18/2024 9:34	41902	REED_T1	1	2	1	0.1	0.2	0.1	0.61	0.6	0	0	0	0	0	0
6/18/2024 9:34	44801	EDAN_T2	1	3	2	0.7	0.8	0.1	0.87	0.89	0	0	0	0	0	0
6/18/2024 9:34	41901	REED_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/18/2024 9:47	64101	REFR_T1	0	1	1	0	0	0	0.33	0.34	0	0	0	0	0	0
6/18/2024 9:48	64101	REFR_T1	0	1	1	0	0	0	0.33	0.34	0	0	0	0	0	0
6/18/2024 9:49	64101	REFR_T1	0	1	1	0	0	0	0.67	0.69	0	0	0	0	0	0
6/18/2024 9:50	42601	TUSC_T1	0	0	0	0	0	0	-0.37	-0.48	3	3	0	2400	2400	0
6/18/2024 9:50	64101	REFR_T1	0	1	1	0	0	0	0.67	0.69	0	0	0	0	0	0
6/18/2024 9:51	64101	REFR_T1	0	1	1	0	0	0	1.03	1.16	0	0	0	0	0	0
6/18/2024 9:52	64101	REFR_T1	0	1	1	0	0	0	0.34	0.39	0	0	0	0	0	0
6/18/2024 9:53	67201	TEHI_T1	6	22	16	1	1.25	0.25	0	0	0	0	0	0	0	0
6/18/2024 9:53	67203	TEHI_T1	3	3	0	0.93	0.63	-0.3	2.2	2.22	4	4	0	3000	3000	0
6/18/2024 9:53	42601	TUSC_T1	0	0	0	0	0	0	-0.48	-0.58	3	3	0	2400	2400	0
6/18/2024 9:53	56802	BENV_T2	0	1	1	0	0.2	0.2	-0.86	-0.79	0	0	0	0	0	0
6/18/2024 9:54	46203	DANV_T2	0	0	0	0	0	0	-1.33	-1.38	0	0	0	0	0	0
6/18/2024 9:54	46206	DANV_T2	1	1	0	2.1	1.7	-0.4	0	0	0	0	0	0	0	0
6/18/2024 9:55	46206	DANV_T2	1	1	0	2.1	1.7	-0.4	0	0	0	0	0	0	0	0
6/18/2024 9:55	46203	DANV_T2	0	0	0	0	0	0	-1.33	-1.38	0	0	0	0	0	0
6/18/2024 9:57	46206	DANV_T2	1	1	0	2.1	1.7	-0.4	0	0	0	0	0	0	0	0
6/18/2024 9:57	46203	DANV_T2	0	0	0	0	0	0	-1.33	-1.38	0	0	0	0	0	0
6/18/2024 9:58	56802	BENV_T2	0	1	1	0	0.2	0.2	-0.86	-0.79	0	0	0	0	0	0
6/18/2024 10:00	56501	ROCK_T2	4	4	0	0.25	0.43	0.18	0	0	0	0	0	0	0	0
6/18/2024 10:00	67502	WEWI_T2	0	0	0	0	0	0	-0.66	-0.65	1	1	0	900	900	0
6/18/2024 10:00	54201	PENN_T1	19	4	-15	0.36	1	0.64	0	0	0	0	0	0	0	0
6/18/2024 10:00	40602	PIGR_T1	1	1	0	0.8	1	0.2	0	0	1	1	0	600	600	0
6/18/2024 10:00	53902	HALI_T2	1	2	1	4.6	2.6	-2	0	0	0	0	0	0	0	0
6/18/2024 10:00	44801	EDAN_T2	3	3	0	1.5	0.7	-0.8	0.91	0.94	0	0	0	0	0	0
6/18/2024 10:00	40502	CRES_T2	1	1	0	0.1	0.1	0	-0.37	-0.37	0	0	0	0	0	0
6/18/2024 10:00	13302	ORVI_T2	0	1	1	0	0.3	0.3	0.45	0.49	0	0	0	0	0	0
6/18/2024 10:00	57401	SPAN_T1	0	0	0	0	0	0	-0.78	-0.54	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/18/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	0.69	0.77	0	0	0	0	0	0
6/18/2024 10:00	56504	ROCK_T2	1	3	2	0.1	0.5	0.4	-1.38	-1.3	0	0	0	0	0	0
6/18/2024 10:00	40505	CRES_T1	3	3	0	4.3	4.03	-0.27	0.77	0.85	0	0	0	0	0	0
6/18/2024 10:00	54203	PENN_T1	9	5	-4	0.37	0.38	0.01	0.87	0.94	0	0	0	0	0	0
6/18/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	1.11	1.32	0	0	0	0	0	0
6/18/2024 10:00	53903	HALI_T2	3	4	1	0.57	0.8	0.23	0.04	0.1	0	0	0	0	0	0
6/18/2024 10:00	62102	ELAN_T1	0	1	1	0	0	0	1.32	1.26	0	0	0	0	0	0
6/18/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 10:00	41903	REED_T1	4	4	0	0.6	0.85	0.25	0	0	0	0	0	0	0	0
6/18/2024 10:00	48302	ORWI_T2	2	3	1	0.8	0.7	-0.1	-0.22	-0.16	0	0	0	0	0	0
6/18/2024 10:00	60501	NMAN_T2	3	3	0	3.67	4.03	0.36	0	0	0	0	0	0	0	0
6/18/2024 10:00	41902	REED_T1	1	6	5	0.4	0.4	0	1.18	1.34	0	0	0	0	0	0
6/18/2024 10:00	40101	HUNT_T2	152	237	85	0.52	0.68	0.16	-0.02	0	0	0	0	0	0	0
6/18/2024 10:00	13503	MCMI_T2	0	1	1	0	0.3	0.3	0.17	0.2	0	0	0	0	0	0
6/18/2024 10:06	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
6/18/2024 10:06	64101	REFR_T1	0	0	0	0	0	0	0.77	0.81	0	0	0	0	0	0
6/18/2024 10:06	67503	WEWI_T2	0	0	0	0	0	0	0.16	0.22	0	0	0	0	0	0
6/18/2024 10:06	40101	HUNT_T2	152	237	85	0.52	0.68	0.16	-0.02	0	0	0	0	0	0	0
6/18/2024 10:06	16101	BING_T2	1	2	1	0.5	0.5	0	0.92	0.97	0	0	0	0	0	0
6/18/2024 10:07	64101	REFR_T1	0	0	0	0	0	0	1.16	1.22	0	0	0	0	0	0
6/18/2024 10:08	56802	BENV_T2	0	1	1	0	0.2	0.2	-0.79	-0.81	0	0	0	0	0	0
6/18/2024 10:08	10801	CHHI_T1	3	5	2	0.43	0.7	0.27	-1.23	-1.13	3	3	0	2100	2100	0
6/18/2024 10:08	64101	REFR_T1	0	0	0	0	0	0	0.77	0.81	0	0	0	0	0	0
6/18/2024 10:09	61102	BERK_T5	0	0	0	0	0	0	0.84	0.86	1	1	0	300	300	0
6/18/2024 10:09	56802	BENV_T2	0	1	1	0	0.2	0.2	-3.16	-3.24	0	0	0	0	0	0
6/18/2024 10:09	10801	CHHI_T1	3	5	2	0.43	0.7	0.27	-1.23	-1.13	3	3	0	2100	2100	0
6/18/2024 10:10	61102	BERK_T5	0	0	0	0	0	0	0.84	0.86	1	1	0	300	300	0
6/18/2024 10:10	20403	ASHF_T2	0	0	0	0	0	0	1.1	1.18	0	0	0	0	0	0
6/18/2024 10:10	10805	CHHI_T2	28	66	38	0.6	0.98	0.38	0.1	0.2	2	2	0	1200	1200	0
6/18/2024 10:10	20401	ASHF_T2	1	4	3	0.7	0.98	0.28	0	0	0	0	0	0	0	0
6/18/2024 10:10	21203	ECAR_T1	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
6/18/2024 10:11	10801	CHHI_T1	3	5	2	0.43	0.7	0.27	-1.23	-1.13	3	3	0	2100	2100	0
6/18/2024 10:11	56802	BENV_T2	0	1	1	0	0.2	0.2	-0.79	-0.81	0	0	0	0	0	0
6/18/2024 10:11	56801	BENV_T1	1	0	-1	0.3	0	-0.3	-0.31	-0.26	1	1	0	600	600	0
6/18/2024 10:11	61102	BERK_T5	0	0	0	0	0	0	1.68	1.72	2	2	0	600	600	0
6/18/2024 10:11	56803	BENV_T1	1	3	2	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
6/18/2024 10:12	20401	ASHF_T2	1	4	3	0.7	0.98	0.28	0	0	0	0	0	0	0	0
6/18/2024 10:12	20403	ASHF_T2	0	0	0	0	0	0	1.1	1.18	0	0	0	0	0	0
6/18/2024 10:14	23401	HONE_T2	21	160	139	0.43	0.4	-0.03	0.83	0.79	0	0	0	0	0	0
6/18/2024 10:18	65001	NEFF_T2	0	0	0	0	0	0	0.38	0.41	1	1	0	1200	1200	0
6/18/2024 10:19	43202	MVIL_T2	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/18/2024 10:19	44601	SALE_T2	0	1	1	0	0	0	0.4	0.72	1	1	0	600	600	0
6/18/2024 10:19	54203	PENN_T1	5	5	0	0.38	0.16	-0.22	0	0	0	0	0	0	0	0
6/18/2024 10:19	54201	PENN_T1	4	3	-1	1	1.3	0.3	-3.2	-3.28	0	0	0	0	0	0
6/18/2024 10:19	43201	MVIL_T2	0	0	0	0	0	0	-0.07	-0.15	0	0	0	0	0	0
6/18/2024 10:20	67201	TEHI_T1	12	26	14	1.27	0.69	-0.58	0	0	0	0	0	0	0	0
6/18/2024 10:20	67203	TEHI_T1	3	5	2	0.63	0.8	0.17	2.22	2.13	4	4	0	3000	3000	0
6/18/2024 10:21	56501	ROCK_T2	4	5	1	0.4	0.38	-0.02	-1.18	-1.12	0	0	0	0	0	0
6/18/2024 10:21	56504	ROCK_T2	1	3	2	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/18/2024 10:21	44601	SALE_T2	0	1	1	0	0	0	0.72	1.3	1	1	0	600	600	0
6/18/2024 10:21	27502	WEIS_T2	2	8	6	0.4	0.36	-0.04	0.1	0.2	0	0	0	0	0	0
6/18/2024 10:22	56504	ROCK_T2	1	3	2	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/18/2024 10:22	56501	ROCK_T2	4	5	1	0.4	0.38	-0.02	-1.12	-0.98	0	0	0	0	0	0
6/18/2024 10:23	67601	WARW_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
6/18/2024 10:23	56504	ROCK_T2	1	3	2	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/18/2024 10:23	56501	ROCK_T2	4	5	1	0.4	0.38	-0.02	-1.12	-0.98	0	0	0	0	0	0
6/18/2024 10:24	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.3	-1.11	0	0	0	0	0	0
6/18/2024 10:25	67903	WNHO_T1	0	0	0	0	0	0	1.19	1.26	1	1	0	1200	1200	0
6/18/2024 10:25	61102	BERK_T5	0	0	0	0	0	0	0.86	0.91	1	1	0	300	300	0
6/18/2024 10:26	11104	EGYP_T1	7	8	1	1.93	1.7	-0.23	1.23	1.33	0	0	0	0	0	0
6/18/2024 10:26	11102	EGYP_T1	3	3	0	1.13	0.93	-0.2	0	0	0	0	0	0	0	0
6/18/2024 10:28	11104	EGYP_T1	7	8	1	1.93	1.7	-0.23	1.23	1.33	0	0	0	0	0	0
6/18/2024 10:28	40902	JESH_T1	1	1	0	0.9	0	-0.9	-0.03	-0.07	2	2	0	1200	1200	0
6/18/2024 10:28	11102	EGYP_T1	3	3	0	1.13	0.93	-0.2	0	0	0	0	0	0	0	0
6/18/2024 10:28	52402	GRPA_T2	0	2	2	0	0.35	0.35	-0.55	-0.48	0	0	0	0	0	0
6/18/2024 10:28	40901	JESH_T1	1	2	1	2.2	2.1	-0.1	0	0	0	0	0	0	0	0
6/18/2024 10:28	52403	GRPA_T2	5	7	2	0.58	0.64	0.06	0	0	0	0	0	0	0	0
6/18/2024 10:29	52403	GRPA_T2	5	7	2	0.58	0.64	0.06	0	0	0	0	0	0	0	0
6/18/2024 10:29	52402	GRPA_T2	0	2	2	0	0.35	0.35	-0.55	-0.48	0	0	0	0	0	0
6/18/2024 10:30	53903	HALI_T2	4	5	1	0.8	0.48	-0.32	0.12	0.12	0	0	0	0	0	0
6/18/2024 10:30	64204	KINZ_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
6/18/2024 10:30	64201	KINZ_T1	0	2	2	0	0.1	0.1	-0.16	-0.17	4	4	0	2100	2100	0
6/18/2024 10:30	53902	HALI_T2	2	3	1	2.6	2.35	-0.25	0	0	0	0	0	0	0	0
6/18/2024 10:30	64203	KINZ_T1	2	2	0	1.9	1.5	-0.4	0.54	0.55	3	3	0	2100	2100	0
6/18/2024 10:31	20601	GRWO_T2	41	67	26	0.4	0.36	-0.04	0.57	0.54	0	0	0	0	0	0
6/18/2024 10:31	46803	HEPB_T2	1	1	0	0.2	0.5	0.3	0.68	0.71	0	0	0	0	0	0
6/18/2024 10:31	52403	GRPA_T2	5	12	7	0.72	0.72	0	0.17	0.23	0	0	0	0	0	0
6/18/2024 10:31	52404	GRPA_T2	0	0	0	0	0	0	0.37	0.47	0	0	0	0	0	0
6/18/2024 10:31	52002	LING_T2	0	0	0	0	0	0	1.36	1.38	0	0	0	0	0	0
6/18/2024 10:31	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 10:31	52402	GRPA_T2	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
6/18/2024 10:31	46801	HEPB_T2	2	2	0	1.1	1	-0.1	0.22	0.29	0	0	0	0	0	0
6/18/2024 10:32	52403	GRPA_T2	5	12	7	0.72	0.72	0	0	0	0	0	0	0	0	0
6/18/2024 10:32	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 10:32	52404	GRPA_T2	0	0	0	0	0	0	0.37	0.47	0	0	0	0	0	0
6/18/2024 10:32	20601	GRWO_T2	41	67	26	0.4	0.36	-0.04	0.57	0.54	0	0	0	0	0	0
6/18/2024 10:32	52402	GRPA_T2	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
6/18/2024 10:32	43202	MVIL_T2	1	2	1	0.6	0.4	-0.2	-0.31	-0.3	0	0	0	0	0	0
6/18/2024 10:33	25502	MADI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/18/2024 10:33	47403	PENS_T1	1	1	0	2.2	2	-0.2	0	0	0	0	0	0	0	0
6/18/2024 10:33	43202	MVIL_T2	1	2	1	0.6	0.4	-0.2	-0.31	-0.3	0	0	0	0	0	0
6/18/2024 10:33	47401	PENS_T1	4	5	1	0.78	0.3	-0.48	3.56	2.98	0	0	0	0	0	0
6/18/2024 10:33	25503	MADI_T1	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
6/18/2024 10:33	25501	MADI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/18/2024 10:34	47401	PENS_T1	4	5	1	0.78	0.3	-0.48	1.78	1.49	0	0	0	0	0	0
6/18/2024 10:34	47403	PENS_T1	1	1	0	2.2	2	-0.2	0	0	0	0	0	0	0	0
6/18/2024 10:35	15601	NSTR_T2	3	3	0	0.23	0.27	0.04	0	0	0	0	0	0	0	0
6/18/2024 10:35	42601	TUSC_T1	11	15	4	0.34	0.2	-0.14	-0.5	-0.51	3	3	0	2400	2400	0
6/18/2024 10:35	15603	NSTR_T2	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
6/18/2024 10:35	43202	MVIL_T2	1	2	1	0.6	0.4	-0.2	-0.31	-0.3	0	0	0	0	0	0
6/18/2024 10:36	24902	WHHA_T1	0	1	1	0	1.6	1.6	0.61	0.81	0	0	0	0	0	0
6/18/2024 10:37	13502	MCMI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/18/2024 10:38	42601	TUSC_T1	11	15	4	0.34	0.2	-0.14	-0.51	-0.53	3	3	0	2400	2400	0
6/18/2024 10:39	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
6/18/2024 10:39	29401	BELT_T1	0	3	3	0	0.4	0.4	0	0	1	1	0	900	900	0
6/18/2024 10:39	13503	MCMI_T2	1	14	13	0.3	0.46	0.16	-0.68	-0.66	0	0	0	0	0	0
6/18/2024 10:40	29401	BELT_T1	0	3	3	0	0.4	0.4	0	0	2	2	0	1800	1800	0
6/18/2024 10:40	24902	WHHA_T1	0	1	1	0	1.6	1.6	0.81	0.81	0	0	0	0	0	0
6/18/2024 10:40	44801	EDAN_T2	1	2	1	0.8	1.2	0.4	0.94	1.03	0	0	0	0	0	0
6/18/2024 10:40	45501	DERR_T2	35	38	3	0.45	0.54	0.09	0	0	0	0	0	0	0	0
6/18/2024 10:40	45502	DERR_T2	54	171	117	0.34	0.49	0.15	0.33	0.36	1	1	0	300	300	0
6/18/2024 10:40	61102	BERK_T5	0	0	0	0	0	0	0.91	0.76	1	1	0	300	300	0
6/18/2024 10:40	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
6/18/2024 10:41	13503	MCMI_T2	1	14	13	0.3	0.46	0.16	-0.68	-0.66	0	0	0	0	0	0
6/18/2024 10:41	61102	BERK_T5	0	0	0	0	0	0	0.91	0.76	1	1	0	300	300	0
6/18/2024 10:42	45501	DERR_T2	35	38	3	0.45	0.54	0.09	1.09	1.14	2	2	0	1800	1800	0
6/18/2024 10:42	45502	DERR_T2	54	171	117	0.34	0.49	0.15	0	0	0	0	0	0	0	0
6/18/2024 10:43	45502	DERR_T2	54	171	117	0.34	0.49	0.15	0	0	0	0	0	0	0	0
6/18/2024 10:43	45501	DERR_T2	35	38	3	0.45	0.54	0.09	1.09	1.14	2	2	0	1800	1800	0
6/18/2024 10:44	52002	LING_T2	0	0	0	0	0	0	0.69	0.73	0	0	0	0	0	0
6/18/2024 10:44	45502	DERR_T2	54	171	117	0.34	0.49	0.15	0.33	0.36	1	1	0	300	300	0
6/18/2024 10:44	45501	DERR_T2	35	38	3	0.45	0.54	0.09	0	0	0	0	0	0	0	0
6/18/2024 10:46	52004	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/18/2024 10:46	12801	MICK_T1	0	0	0	0	0	0	-0.21	-0.14	1	1	0	600	600	0
6/18/2024 10:46	52002	LING_T2	0	7	7	0	0	0	1.38	1.47	0	0	0	0	0	0
6/18/2024 10:50	23002	SAJO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/18/2024 10:50	23001	SAJO_T1	1	0	-1	0.1	0	-0.1	0.54	0.54	0	0	0	0	0	0
6/18/2024 10:51	43304	WATS_T2	0	0	0	0	0	0	-0.53	-0.54	1	1	0	600	600	0
6/18/2024 10:54	64101	REFR_T1	3	3	0	0.13	0.5	0.37	0.4	0.42	0	0	0	0	0	0
6/18/2024 10:54	67804	WLAN_T1	10	8	-2	0.8	0.48	-0.32	0	0	0	0	0	0	0	0
6/18/2024 10:54	67801	WLAN_T1	0	0	0	0	0	0	0.36	-0.81	0	0	0	0	0	0
6/18/2024 10:54	67803	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 10:54	64902	MILL_T2	0	0	0	0	0	0	-0.59	-0.56	1	1	0	900	900	0
6/18/2024 10:55	20401	ASHF_T2	4	4	0	0.85	0.8	-0.05	0.72	0.6	0	0	0	0	0	0
6/18/2024 10:55	20403	ASHF_T2	0	0	0	0	0	0	1.01	1.23	0	0	0	0	0	0
6/18/2024 10:57	64801	MONE_T2	1	0	-1	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
6/18/2024 10:58	45802	HEGI_T2	10	69	59	1.1	0.83	-0.27	0.15	0.38	2	2	0	1200	1200	0
6/18/2024 11:02	42903	MIDD_T2	0	0	0	0	0	0	1.19	1.2	1	1	0	1200	1200	0
6/18/2024 11:02	45802	HEGI_T2	26	71	45	0.88	0.69	-0.19	0.15	0.38	2	2	0	1200	1200	0
6/18/2024 11:02	42902	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 11:02	42901	MIDD_T2	2	1	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/18/2024 11:03	40603	PIGR_T1	2	2	0	0.45	0	-0.45	0	0	0	0	0	0	0	0
6/18/2024 11:03	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 11:03	40602	PIGR_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
6/18/2024 11:04	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 11:05	64101	REFR_T1	3	4	1	0.5	0.53	0.03	0.4	0.42	0	0	0	0	0	0
6/18/2024 11:06	16302	ALPA_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
6/18/2024 11:06	64101	REFR_T1	3	4	1	0.5	0.53	0.03	0.42	0.43	0	0	0	0	0	0
6/18/2024 11:07	64101	REFR_T1	3	4	1	0.5	0.53	0.03	0.42	0.43	0	0	0	0	0	0
6/18/2024 11:07	16302	ALPA_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
6/18/2024 11:07	61102	BERK_T5	0	0	0	0	0	0	0.86	0.88	1	1	0	300	300	0
6/18/2024 11:08	56803	BENV_T1	6	8	2	0.55	0.84	0.29	0	0	0	0	0	0	0	0
6/18/2024 11:08	56801	BENV_T1	1	2	1	1.3	0.8	-0.5	-0.3	-0.4	2	2	0	1200	1200	0
6/18/2024 11:09	64101	REFR_T1	3	4	1	0.5	0.53	0.03	0.42	0.43	0	0	0	0	0	0
6/18/2024 11:09	67203	TEHI_T1	6	13	7	0.77	1.3	0.53	0	0	0	0	0	0	0	0
6/18/2024 11:09	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 11:09	61102	BERK_T5	0	0	0	0	0	0	0.86	0.88	1	1	0	300	300	0
6/18/2024 11:09	67201	TEHI_T1	25	40	15	0.79	1.02	0.23	0.24	0.38	2	2	0	1500	1500	0
6/18/2024 11:10	16302	ALPA_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
6/18/2024 11:11	22001	BOHE_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/18/2024 11:11	16302	ALPA_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
6/18/2024 11:11	22003	BOHE_T1	3	3	0	1.4	1.23	-0.17	0.11	0.09	0	0	0	0	0	0
6/18/2024 11:12	20601	GRWO_T2	43	91	48	0.36	0.56	0.2	0.65	0.68	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/18/2024 11:14	10801	CHHI_T1	5	7	2	0.46	0.93	0.47	-1.09	-1.06	3	3	0	2100	2100	0
6/18/2024 11:15	53502	EVIL_T2	7	6	-1	0.96	0.66	-0.3	0	0	0	0	0	0	0	0
6/18/2024 11:15	53501	EVIL_T2	2	3	1	0.8	0.8	0	-1.16	-1.16	5	5	0	2900	2900	0
6/18/2024 11:15	52001	LING_T1	0	0	0	0	0	0	0.87	0.89	0	0	0	0	0	0
6/18/2024 11:15	52003	LING_T1	2	1	-1	0.35	0.7	0.35	0	0	0	0	0	0	0	0
6/18/2024 11:16	52403	GRPA_T2	17	13	-4	0.81	1.21	0.4	0.25	0.24	0	0	0	0	0	0
6/18/2024 11:16	52402	GRPA_T2	2	3	1	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/18/2024 11:16	52401	GRPA_T2	1	2	1	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/18/2024 11:17	53502	EVIL_T2	7	6	-1	0.96	0.66	-0.3	0	0	0	0	0	0	0	0
6/18/2024 11:17	53501	EVIL_T2	2	3	1	0.8	0.8	0	-1.16	-1.16	5	5	0	2900	2900	0
6/18/2024 11:18	42901	MIDD_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/18/2024 11:18	42902	MIDD_T2	1	0	-1	0.1	0	-0.1	0.3	0.17	1	1	0	600	600	0
6/18/2024 11:21	55103	WERT_T1	1	1	0	4.8	4.4	-0.4	0	0	0	0	0	0	0	0
6/18/2024 11:21	55101	WERT_T1	0	1	1	0	0	0	-1.63	-1.58	4	4	0	3300	3300	0
6/18/2024 11:23	55103	WERT_T1	1	1	0	4.8	4.4	-0.4	0	0	0	0	0	0	0	0
6/18/2024 11:23	55101	WERT_T1	0	1	1	0	0	0	-3.16	-3.22	8	8	0	6600	6600	0
6/18/2024 11:24	55101	WERT_T1	0	1	1	0	0	0	-1.58	-1.61	4	4	0	3300	3300	0
6/18/2024 11:24	10801	CHHI_T1	3	22	19	0.8	0.53	-0.27	-1.06	-1	3	3	0	2100	2100	0
6/18/2024 11:24	55103	WERT_T1	1	1	0	4.8	4.4	-0.4	0	0	0	0	0	0	0	0
6/18/2024 11:25	45502	DERR_T2	144	163	19	0.69	0.56	-0.13	0	0	0	0	0	0	0	0
6/18/2024 11:25	55101	WERT_T1	0	1	1	0	0	0	-1.58	-1.61	4	4	0	3300	3300	0
6/18/2024 11:25	45501	DERR_T2	19	56	37	0.66	0.57	-0.09	2.46	2.42	4	4	0	3600	3600	0
6/18/2024 11:25	55103	WERT_T1	1	1	0	4.8	4.4	-0.4	0	0	0	0	0	0	0	0
6/18/2024 11:26	66504	SMAN_T2	0	0	0	0	0	0	-0.17	-0.19	1	1	0	1200	1200	0
6/18/2024 11:26	21206	ECAR_T2	12	17	5	1.12	1.19	0.07	0.74	0.75	0	0	0	0	0	0
6/18/2024 11:26	66501	SMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
6/18/2024 11:26	66502	SMAN_T2	0	1	1	0	0.5	0.5	-0.52	-0.56	2	2	0	1800	1800	0
6/18/2024 11:26	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 11:26	45501	DERR_T2	19	56	37	0.66	0.57	-0.09	1.23	1.21	2	2	0	1800	1800	0
6/18/2024 11:26	45502	DERR_T2	144	163	19	0.69	0.56	-0.13	0	0	0	0	0	0	0	0
6/18/2024 11:27	44801	EDAN_T2	1	1	0	1	0.8	-0.2	1.05	1.1	0	0	0	0	0	0
6/18/2024 11:27	53501	EVIL_T2	2	3	1	0.8	0.8	0	-1.16	-1.19	5	5	0	2900	2900	0
6/18/2024 11:27	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 11:27	21206	ECAR_T2	12	17	5	1.12	1.19	0.07	0.74	0.75	0	0	0	0	0	0
6/18/2024 11:27	53502	EVIL_T2	7	6	-1	0.96	0.66	-0.3	0	0	0	0	0	0	0	0
6/18/2024 11:29	66502	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/18/2024 11:29	44801	EDAN_T2	1	1	0	1	0.8	-0.2	1.05	1.1	0	0	0	0	0	0
6/18/2024 11:29	66504	SMAN_T2	0	0	0	0	0	0	-0.34	-0.38	2	2	0	2400	2400	0
6/18/2024 11:29	45801	HEGI_T1	0	0	0	0	0	0	0.13	0.14	1	1	0	900	900	0
6/18/2024 11:29	66501	SMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
6/18/2024 11:29	53501	EVIL_T2	2	3	1	0.8	0.8	0	-1.16	-1.19	5	5	0	2900	2900	0
6/18/2024 11:29	53502	EVIL_T2	7	6	-1	0.96	0.66	-0.3	0	0	0	0	0	0	0	0
6/18/2024 11:30	53501	EVIL_T2	2	6	4	0.8	0.77	-0.03	-1.16	-1.19	5	5	0	2900	2900	0
6/18/2024 11:30	53502	EVIL_T2	6	8	2	0.87	0.62	-0.25	0	0	0	0	0	0	0	0
6/18/2024 11:31	12301	LANA_T2	1	0	-1	0.1	0	-0.1	-0.99	-1.01	1	1	0	1200	1200	0
6/18/2024 11:31	12304	LANA_T2	34	101	67	0.36	0.6	0.24	0	0	0	0	0	0	0	0
6/18/2024 11:31	12305	LANA_T2	2	3	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
6/18/2024 11:35	64201	KINZ_T1	3	6	3	0.17	0.25	0.08	0	0	0	0	0	0	0	0
6/18/2024 11:35	64204	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/18/2024 11:35	64203	KINZ_T1	2	2	0	2.4	2.85	0.45	0.72	0.7	3	3	0	2100	2100	0
6/18/2024 11:35	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 11:36	64201	KINZ_T1	3	6	3	0.17	0.25	0.08	0	0	0	0	0	0	0	0
6/18/2024 11:36	64203	KINZ_T1	2	2	0	2.4	2.85	0.45	0.72	0.7	3	3	0	2100	2100	0
6/18/2024 11:36	64204	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/18/2024 11:36	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 11:40	15703	TANN_T2	1	1	0	6.7	6.9	0.2	0	0	0	0	0	0	0	0
6/18/2024 11:40	15702	TANN_T2	0	0	0	0	0	0	0.02	0.32	0	0	0	0	0	0
6/18/2024 11:41	10102	ALLE_T2	1	2	1	7.8	7.8	0	0	0	0	0	0	0	0	0
6/18/2024 11:41	10204	ALLE_T2	4	4	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/18/2024 11:41	10206	ALLE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/18/2024 11:42	15702	TANN_T2	0	0	0	0	0	0	0.01	0.16	0	0	0	0	0	0
6/18/2024 11:42	15703	TANN_T2	1	1	0	6.7	6.9	0.2	0	0	0	0	0	0	0	0
6/18/2024 11:42	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	1	1	0	900	900
6/18/2024 11:42	20603	GRWO_T2	0	0	0	0	0	0	-0.19	-0.25	1	1	0	900	900	0
6/18/2024 11:42	20601	GRWO_T2	90	112	22	0.68	0.64	-0.04	0	0	0	0	0	0	0	0
6/18/2024 11:43	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	2	2	0	1800	1800
6/18/2024 11:45	59302	MCAL_T1	43	32	-11	1.04	0.71	-0.33	-0.45	-0.41	1	1	0	600	600	0
6/18/2024 11:45	22903	HARW_T1	24	21	-3	2.35	0.2	-2.15	0	0	0	0	0	0	0	0
6/18/2024 11:45	42102	FRAI_T1	1	1	0	0.1	0	-0.1	0	0	1	1	0	900	900	0
6/18/2024 11:45	22905	HARW_T1	4	1	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/18/2024 11:45	59301	MCAL_T1	6	1	-5	0.38	0	-0.38	0	0	0	0	0	0	0	0
6/18/2024 11:45	25402	LAHA_T2	0	1	1	0	0.4	0.4	-0.23	-0.42	0	0	0	0	0	0
6/18/2024 11:45	22901	HARW_T1	10	24	14	0.55	0.43	-0.12	-0.05	-0.12	1	1	0	1200	1200	0
6/18/2024 11:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	1	1	0	900	900
6/18/2024 11:46	22905	HARW_T1	4	1	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/18/2024 11:46	46101	MACI_T2	0	0	0	0	0	0	-0.56	-0.21	2	2	0	2400	2400	0
6/18/2024 11:46	22901	HARW_T1	10	24	14	0.55	0.43	-0.12	-0.05	-0.12	1	1	0	1200	1200	0
6/18/2024 11:46	22903	HARW_T1	24	21	-3	2.35	0.2	-2.15	0	0	0	0	0	0	0	0
6/18/2024 11:47	12402	MILF_T1	149	157	8	1.6	1.73	0.13	1.17	1.19	0	0	0	0	0	0
6/18/2024 11:47	12401	MILF_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/18/2024 11:47	58401	MORO_T1	0	0	0	0	0	0	-1.64	-2.51	2	3	1	1200	2100	900
6/18/2024 11:47	58402	MORO_T1	5	3	-2	0.58	0	-0.58	0	0	0	0	0	0	0	0
6/18/2024 11:48	47403	PENS_T1	1	2	1	2	1.35	-0.65	0	0	0	0	0	0	0	0
6/18/2024 11:48	47401	PENS_T1	8	11	3	0.48	0.61	0.13	3.08	3.22	0	0	0	0	0	0
6/18/2024 11:48	47402	PENS_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 11:49	47402	PENS_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 11:49	64201	KINZ_T1	4	4	0	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/18/2024 11:49	64204	KINZ_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
6/18/2024 11:49	47403	PENS_T1	1	2	1	2	1.35	-0.65	0	0	0	0	0	0	0	0
6/18/2024 11:49	47401	PENS_T1	8	11	3	0.48	0.61	0.13	6.16	6.44	0	0	0	0	0	0
6/18/2024 11:49	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 11:49	64203	KINZ_T1	2	2	0	2.9	2.5	-0.4	0.7	0.72	3	3	0	2100	2100	0
6/18/2024 11:50	58401	MORO_T1	0	0	0	0	0	0	-1.64	-2.51	2	3	1	1200	2100	900
6/18/2024 11:50	47402	PENS_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 11:50	58402	MORO_T1	5	3	-2	0.58	0	-0.58	0	0	0	0	0	0	0	0
6/18/2024 11:50	47401	PENS_T1	8	11	3	0.48	0.61	0.13	1.54	1.61	0	0	0	0	0	0
6/18/2024 11:50	47403	PENS_T1	1	2	1	2	1.35	-0.65	0	0	0	0	0	0	0	0
6/18/2024 11:51	58402	MORO_T1	5	3	-2	0.58	0	-0.58	0	0	0	0	0	0	0	0
6/18/2024 11:51	14403	SSLA_T1	2	2	0	0.5	0.5	0	1.1	1.03	0	1	1	0	600	600
6/18/2024 11:51	14404	SSLA_T1	1	1	0	3	3.3	0.3	0	0	0	0	0	0	0	0
6/18/2024 11:51	58401	MORO_T1	0	0	0	0	0	0	-1.64	-2.51	2	3	1	1200	2100	900
6/18/2024 11:52	47403	PENS_T1	1	2	1	2	1.35	-0.65	0	0	0	0	0	0	0	0
6/18/2024 11:52	47402	PENS_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 11:52	47401	PENS_T1	8	11	3	0.48	0.61	0.13	1.61	1.71	0	0	0	0	0	0
6/18/2024 11:53	66703	STRA_T1	0	0	0	0	0	0	-0.09	-0.15	0	0	0	0	0	0
6/18/2024 11:54	64301	LINC_T1	0	0	0	0	0	0	-1.09	0.35	1	1	0	600	600	0
6/18/2024 11:55	10801	CHHI_T1	21	19	-2	0.64	0.7	0.06	-0.95	-0.84	3	3	0	2100	2100	0
6/18/2024 11:56	64305	LINC_T1	0	0	0	0	0	0	-0.17	-0.29	0	0	0	0	0	0
6/18/2024 11:59	52401	GRPA_T2	1	7	6	0.8	0.9	0.1	-0.15	-0.1	0	0	0	0	0	0
6/18/2024 11:59	52402	GRPA_T2	3	9	6	0.83	0.43	-0.4	0	0	0	0	0	0	0	0
6/18/2024 11:59	52403	GRPA_T2	7	25	18	1.21	0.98	-0.23	0	0	0	0	0	0	0	0
6/18/2024 12:00	52403	GRPA_T2	8	66	58	0.98	0.82	-0.16	0	0	0	0	0	0	0	0
6/18/2024 12:00	52402	GRPA_T2	3	9	6	0.43	0.64	0.21	0	0	0	0	0	0	0	0
6/18/2024 12:00	52401	GRPA_T2	3	6	3	0.83	0.2	-0.63	-0.15	-0.1	0	0	0	0	0	0
6/18/2024 12:01	47101	MARL_T1	34	131	97	0.82	0.68	-0.14	-1.4	-1.34	2	2	0	1200	1200	0
6/18/2024 12:01	59202	THOM_T1	6	10	4	0.43	0.56	0.13	0	0	0	0	0	0	0	0
6/18/2024 12:02	47101	MARL_T1	34	131	97	0.82	0.68	-0.14	-0.7	-0.67	1	1	0	600	600	0
6/18/2024 12:03	47101	MARL_T1	34	131	97	0.82	0.68	-0.14	-1.4	-1.34	2	2	0	1200	1200	0
6/18/2024 12:04	47101	MARL_T1	34	131	97	0.82	0.68	-0.14	-1.4	-1.34	2	2	0	1200	1200	0
6/18/2024 12:05	47101	MARL_T1	34	131	97	0.82	0.68	-0.14	-0.7	-0.67	1	1	0	600	600	0
6/18/2024 12:05	67401	WAKE_T2	2	63	61	0.45	0.29	-0.16	0	0	0	0	0	0	0	0
6/18/2024 12:05	11804	FRAN_T1	37	103	66	0.44	0.47	0.03	1.91	1.84	0	0	0	0	0	0
6/18/2024 12:05	67402	WAKE_T2	0	0	0	0	0	0	1.77	1.09	0	1	1	0	600	600
6/18/2024 12:07	64101	REFR_T1	3	3	0	0.13	0	-0.13	-0.08	-0.05	0	0	0	0	0	0
6/18/2024 12:07	67402	WAKE_T2	0	0	0	0	0	0	1.09	1.1	1	1	0	600	600	0
6/18/2024 12:07	67401	WAKE_T2	2	63	61	0.45	0.29	-0.16	0	0	0	0	0	0	0	0
6/18/2024 12:09	10801	CHHI_T1	19	19	0	0.54	0.81	0.27	-0.84	-0.79	3	3	0	2100	2100	0
6/18/2024 12:13	52402	GRPA_T2	3	9	6	0.43	0.64	0.21	0	0	0	0	0	0	0	0
6/18/2024 12:13	52404	GRPA_T2	0	0	0	0	0	0	0.51	0.58	0	0	0	0	0	0
6/18/2024 12:13	52401	GRPA_T2	3	6	3	0.83	0.2	-0.63	0	0	0	0	0	0	0	0
6/18/2024 12:13	52403	GRPA_T2	8	66	58	0.98	0.82	-0.16	0	0	0	0	0	0	0	0
6/18/2024 12:14	44801	EDAN_T2	2	1	-1	0.9	1.8	0.9	1.05	1.07	0	0	0	0	0	0
6/18/2024 12:15	52402	GRPA_T2	9	12	3	0.64	0.4	-0.24	0	0	0	0	0	0	0	0
6/18/2024 12:15	52401	GRPA_T2	6	2	-4	0.52	0	-0.52	0	0	0	0	0	0	0	0
6/18/2024 12:15	52403	GRPA_T2	24	63	39	0.83	0.72	-0.11	0	0	0	0	0	0	0	0
6/18/2024 12:15	52404	GRPA_T2	0	5	5	0	0	0	0.51	0.58	0	0	0	0	0	0
6/18/2024 12:17	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 12:18	12701	MACU_T1	0	0	0	0	0	0	-0.69	-0.7	1	1	0	1200	1200	0
6/18/2024 12:20	67602	WARW_T2	0	0	0	0	0	0	0.37	0.41	2	2	0	1500	1500	0
6/18/2024 12:20	61102	BERK_T5	0	0	0	0	0	0	1.13	1.16	1	1	0	300	300	0
6/18/2024 12:21	55103	WERT_T1	2	5	3	3.2	4.6	1.4	0	0	0	0	0	0	0	0
6/18/2024 12:21	67401	WAKE_T2	19	65	46	0.21	0.28	0.07	-0.39	-0.38	0	0	0	0	0	0
6/18/2024 12:21	55101	WERT_T1	8	18	10	0.3	0.36	0.06	-1.48	-1.41	4	4	0	3300	3300	0
6/18/2024 12:21	67605	WARW_T1	1	1	0	0.3	0.5	0.2	-0.61	-0.52	0	0	0	0	0	0
6/18/2024 12:22	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 12:22	67401	WAKE_T2	19	65	46	0.21	0.28	0.07	-0.39	-0.38	0	0	0	0	0	0
6/18/2024 12:22	12701	MACU_T1	0	0	0	0	0	0	-0.7	-0.67	1	1	0	1200	1200	0
6/18/2024 12:22	67402	WAKE_T2	0	0	0	0	0	0	1.1	1.1	1	1	0	600	600	0
6/18/2024 12:22	43304	WATS_T2	0	2	2	0	0.1	0.1	-0.65	-0.67	1	1	0	600	600	0
6/18/2024 12:23	67603	WARW_T1	0	0	0	0	0	0	0.54	-0.05	0	0	0	0	0	0
6/18/2024 12:23	67605	WARW_T1	1	1	0	0.3	0.5	0.2	-0.61	-0.52	0	0	0	0	0	0
6/18/2024 12:24	46206	DANV_T2	3	2	-1	0.97	1.05	0.08	0	0	0	0	0	0	0	0
6/18/2024 12:24	67401	WAKE_T2	19	65	46	0.21	0.28	0.07	0	0	0	0	0	0	0	0
6/18/2024 12:24	46203	DANV_T2	0	1	1	0	0	0	-1.2	-0.72	0	0	0	0	0	0
6/18/2024 12:24	61101	BERK_T5	0	0	0	0	0	0	-0.58	-0.5	0	0	0	0	0	0
6/18/2024 12:24	67605	WARW_T1	1	1	0	0.3	0.5	0.2	-1.21	-1.05	0	0	0	0	0	0
6/18/2024 12:24	46204	DANV_T2	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
6/18/2024 12:24	67402	WAKE_T2	0	0	0	0	0	0	1.1	1.1	1	1	0	600	600	0
6/18/2024 12:24	67602	WARW_T2	0	0	0	0	0	0	1.22	1.19	6	6	0	4500	4500	0
6/18/2024 12:25	67801	WLAN_T1	3	1	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/18/2024 12:25	67805	WLAN_T1	0	0	0	0	0	0	-0.29	-0.19	0	0	0	0	0	0
6/18/2024 12:25	67804	WLAN_T1	10	10	0	0.88	0.86	-0.02	0	0	0	0	0	0	0	0
6/18/2024 12:25	67602	WARW_T2	0	0	0	0	0	0	0.81	0.79	4	4	0	3000	3000	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/18/2024 12:26	67605	WARW_T1	1	1	0	0.3	0.5	0.2	-0.61	-0.52	0	0	0	0	0	0
6/18/2024 12:26	46204	DANV_T2	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
6/18/2024 12:26	46206	DANV_T2	3	2	-1	0.97	1.05	0.08	0	0	0	0	0	0	0	0
6/18/2024 12:26	46203	DANV_T2	0	1	1	0	0	0	-1.2	-0.72	0	0	0	0	0	0
6/18/2024 12:27	46206	DANV_T2	3	2	-1	0.97	1.05	0.08	0	0	0	0	0	0	0	0
6/18/2024 12:27	46204	DANV_T2	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
6/18/2024 12:27	55103	WERT_T1	2	5	3	3.2	4.6	1.4	0	0	0	0	0	0	0	0
6/18/2024 12:27	55101	WERT_T1	8	18	10	0.3	0.36	0.06	-1.41	-1.39	4	4	0	3300	3300	0
6/18/2024 12:27	46203	DANV_T2	0	1	1	0	0	0	-1.2	-0.72	0	0	0	0	0	0
6/18/2024 12:29	40101	HUNT_T2	119	263	144	0.47	0.51	0.04	-0.37	-0.36	0	0	0	0	0	0
6/18/2024 12:31	64204	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/18/2024 12:31	64201	KINZ_T1	0	15	15	0	0.37	0.37	0	0	0	0	0	0	0	0
6/18/2024 12:31	64203	KINZ_T1	2	5	3	2.4	3.2	0.8	0.63	0.63	3	3	0	2100	2100	0
6/18/2024 12:31	64202	KINZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 12:34	25503	MADI_T1	0	0	0	0	0	0	-0.43	-0.37	0	0	0	0	0	0
6/18/2024 12:34	17002	RIRO_T2	2	1	-1	0.6	0.6	0	1.11	1.14	0	0	0	0	0	0
6/18/2024 12:34	25501	MADI_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
6/18/2024 12:34	66901	SHIL_T2	0	0	0	0	0	0	-1.42	-1.39	0	0	0	0	0	0
6/18/2024 12:35	54701	NEBL_T1	2	0	-2	0.15	0	-0.15	0	0	1	1	0	600	600	0
6/18/2024 12:35	64802	MONE_T2	5	1	-4	0.2	1.2	1	-0.01	-0.15	0	0	0	0	0	0
6/18/2024 12:36	41903	REED_T1	4	5	1	0.95	0.8	-0.15	0	0	0	0	0	0	0	0
6/18/2024 12:36	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 12:36	41902	REED_T1	20	17	-3	0.55	0.4	-0.15	-0.01	-0.06	1	1	0	900	900	0
6/18/2024 12:37	49804	UNIV_T1	1	1	0	1.4	0.6	-0.8	2.17	2.03	0	0	0	0	0	0
6/18/2024 12:37	55101	WERT_T1	9	18	9	0.6	0.29	-0.31	-1.39	-1.4	4	4	0	3300	3300	0
6/18/2024 12:37	49803	UNIV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/18/2024 12:37	55103	WERT_T1	2	5	3	5.2	4.4	-0.8	0	0	0	0	0	0	0	0
6/18/2024 12:37	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 12:37	57401	SPAN_T1	8	7	-1	0.49	0.15	-0.34	-0.33	-0.89	1	1	0	600	600	0
6/18/2024 12:37	56501	ROCK_T2	3	3	0	0.37	0.5	0.13	0	0	0	0	0	0	0	0
6/18/2024 12:37	56504	ROCK_T2	0	0	0	0	0	0	-1.17	-1.2	0	0	0	0	0	0
6/18/2024 12:38	55103	WERT_T1	2	5	3	5.2	4.4	-0.8	0	0	0	0	0	0	0	0
6/18/2024 12:38	55101	WERT_T1	9	18	9	0.6	0.29	-0.31	-1.39	-1.4	4	4	0	3300	3300	0
6/18/2024 12:39	67401	WAKE_T2	63	42	-21	0.28	0.24	-0.04	-0.38	-0.35	0	0	0	0	0	0
6/18/2024 12:39	61101	BERK_T5	0	0	0	0	0	0	-0.25	-0.2	0	0	0	0	0	0
6/18/2024 12:39	56501	ROCK_T2	3	3	0	0.37	0.5	0.13	0	0	0	0	0	0	0	0
6/18/2024 12:39	56504	ROCK_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
6/18/2024 12:40	45602	WOOL_T1	1	1	0	0.2	0.4	0.2	1.62	1.76	0	0	0	0	0	0
6/18/2024 12:40	56501	ROCK_T2	3	3	0	0.37	0.5	0.13	0	0	0	0	0	0	0	0
6/18/2024 12:40	56504	ROCK_T2	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
6/18/2024 12:40	67605	WARW_T1	1	1	0	0.4	0.5	0.1	-0.52	-0.55	0	0	0	0	0	0
6/18/2024 12:41	56504	ROCK_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
6/18/2024 12:41	56501	ROCK_T2	3	3	0	0.37	0.5	0.13	0	0	0	0	0	0	0	0
6/18/2024 12:42	16101	BING_T2	3	5	2	3.7	3	-0.7	0	0	0	0	0	0	0	0
6/18/2024 12:42	16102	BING_T2	1	8	7	0.2	0.3	0.1	-0.71	-0.68	2	2	0	2100	2100	0
6/18/2024 12:42	16103	BING_T2	4	5	1	2.85	0.27	-2.58	0	0	0	0	0	0	0	0
6/18/2024 12:44	45602	WOOL_T1	1	1	0	0.2	0.4	0.2	0.81	0.88	0	0	0	0	0	0
6/18/2024 12:45	57303	MOAL_T2	1	1	0	8	8.2	0.2	0	0	0	0	0	0	0	0
6/18/2024 12:45	57304	MOAL_T2	1	3	2	0.5	0.95	0.45	0.01	-0.01	0	0	0	0	0	0
6/18/2024 12:47	64201	KINZ_T1	5	14	9	0.6	0.44	-0.16	0	0	0	0	0	0	0	0
6/18/2024 12:47	64202	KINZ_T1	0	5	5	0	0.17	0.17	0	0	0	0	0	0	0	0
6/18/2024 12:47	64203	KINZ_T1	2	5	3	3.2	3.5	0.3	0.63	0.79	3	3	0	2100	2100	0
6/18/2024 12:47	64204	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/18/2024 12:48	43202	MVIL_T2	0	2	2	0	0.3	0.3	-0.21	-0.14	0	0	0	0	0	0
6/18/2024 12:50	64101	REFR_T1	3	3	0	0.23	0	-0.23	-0.05	-0.01	0	0	0	0	0	0
6/18/2024 12:51	40603	PIGR_T1	3	11	8	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
6/18/2024 12:51	40602	PIGR_T1	1	0	-1	0.2	1.1	0.9	0	0	1	1	0	600	600	0
6/18/2024 12:52	49804	UNIV_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/18/2024 12:52	49803	UNIV_T1	1	0	-1	0.2	0	-0.2	-1.41	-1.4	0	0	0	0	0	0
6/18/2024 12:52	64101	REFR_T1	3	3	0	0.23	0	-0.23	-0.01	0.1	0	0	0	0	0	0
6/18/2024 12:53	67204	TEHI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
6/18/2024 12:54	67204	TEHI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
6/18/2024 12:59	44801	EDAN_T2	1	5	4	1.9	1.8	-0.1	1.12	1.16	0	0	0	0	0	0
6/18/2024 13:00	64202	KINZ_T1	3	10	7	0.23	0.5	0.27	0	0	0	0	0	0	0	0
6/18/2024 13:00	64204	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/18/2024 13:00	64201	KINZ_T1	13	11	-2	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
6/18/2024 13:00	64203	KINZ_T1	5	4	-1	1.62	3.5	1.88	0.79	0.65	3	3	0	2100	2100	0
6/18/2024 13:01	53901	HALI_T2	0	0	0	0	0	0	-0.89	-0.84	0	0	0	0	0	0
6/18/2024 13:01	53902	HALI_T2	1	3	2	4.1	1.67	-2.43	0	0	0	0	0	0	0	0
6/18/2024 13:01	53903	HALI_T2	5	5	0	0.5	0.84	0.34	0	0	0	0	0	0	0	0
6/18/2024 13:02	12704	MACU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 13:02	52002	LING_T2	2	10	8	0.15	0.28	0.13	0.24	0.19	1	1	0	900	900	0
6/18/2024 13:02	64203	KINZ_T1	5	4	-1	1.62	3.5	1.88	0.79	0.65	3	3	0	2100	2100	0
6/18/2024 13:02	52006	LING_T2	5	6	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/18/2024 13:02	12701	MACU_T1	0	5	5	0	0.2	0.2	-0.65	-0.65	1	1	0	1200	1200	0
6/18/2024 13:02	64202	KINZ_T1	3	10	7	0.23	0.5	0.27	0	0	0	0	0	0	0	0
6/18/2024 13:02	64201	KINZ_T1	13	11	-2	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
6/18/2024 13:02	64204	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/18/2024 13:03	12701	MACU_T1	0	5	5	0	0.2	0.2	-0.65	-0.65	1	1	0	1200	1200	0
6/18/2024 13:03	12704	MACU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 13:04	58202	NEWV_T1	0	0	0	0	0	0	0.19	0.5	0	0	0	0	0	0
6/18/2024 13:04	58201	NEWV_T1	10	13	3	0.22	0.98	0.76	0	0	0	0	0	0	0	0
6/18/2024 13:05	64101	REFR_T1	3	0	-3	0.27	0	-0.27	-0.01	0.1	0	0	0	0	0	0
6/18/2024 13:07	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 13:09	58003	WCAR_T1	1	3	2	0.1	0.33	0.23	0.81	0.79	1	1	0	600	600	0
6/18/2024 13:10	67402	WAKE_T2	0	0	0	0	0	0	1.16	1.18	1	1	0	600	600	0
6/18/2024 13:10	58003	WCAR_T1	1	3	2	0.1	0.33	0.23	0.81	0.79	1	1	0	600	600	0
6/18/2024 13:10	67401	WAKE_T2	14	62	48	0.27	0.27	0	0	0	0	0	0	0	0	0
6/18/2024 13:11	46206	DANV_T2	1	15	14	1.9	0.9	-1	0	0	0	0	0	0	0	0
6/18/2024 13:11	46203	DANV_T2	0	1	1	0	0	0	-0.73	-1.99	0	0	0	0	0	0
6/18/2024 13:11	46204	DANV_T2	2	44	42	0.2	0.2	0	0	0	0	0	0	0	0	0
6/18/2024 13:12	46204	DANV_T2	2	44	42	0.2	0.2	0	0	0	0	0	0	0	0	0
6/18/2024 13:12	46203	DANV_T2	0	1	1	0	0	0	-0.73	-1.99	0	0	0	0	0	0
6/18/2024 13:12	46206	DANV_T2	1	15	14	1.9	0.9	-1	0	0	0	0	0	0	0	0
6/18/2024 13:14	64302	LINC_T2	4	10	6	1.18	0.65	-0.53	2.14	2.25	0	0	0	0	0	0
6/18/2024 13:15	64302	LINC_T2	4	12	8	0.73	0.56	-0.17	2.14	2.25	0	0	0	0	0	0
6/18/2024 13:18	47101	MARL_T1	200	290	90	1.22	1.22	0	-4.41	-4.23	3	3	0	1800	1800	0
6/18/2024 13:18	47104	MARL_T1	26	45	19	0.89	0.91	0.02	0	0	0	0	0	0	0	0
6/18/2024 13:18	46302	ROHR_T1	2	4	2	1.45	0.6	-0.85	0.5	0.48	0	0	0	0	0	0
6/18/2024 13:18	46301	ROHR_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/18/2024 13:18	12701	MACU_T1	2	5	3	0.15	0.43	0.28	-0.65	-0.62	1	1	0	1200	1200	0
6/18/2024 13:19	12701	MACU_T1	2	5	3	0.15	0.43	0.28	-0.65	-0.62	1	1	0	1200	1200	0
6/18/2024 13:20	46301	ROHR_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/18/2024 13:20	64101	REFR_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
6/18/2024 13:20	52501	PROG_T1	0	0	0	0	0	0	0.77	0.49	1	1	0	300	300	0
6/18/2024 13:20	47104	MARL_T1	26	45	19	0.89	0.91	0.02	0	0	0	0	0	0	0	0
6/18/2024 13:20	46302	ROHR_T1	2	4	2	1.45	0.6	-0.85	0.5	0.48	0	0	0	0	0	0
6/18/2024 13:20	47101	MARL_T1	200	290	90	1.22	1.22	0	-2.94	-2.82	2	2	0	1200	1200	0
6/18/2024 13:21	47101	MARL_T1	200	290	90	1.22	1.22	0	-1.47	-1.41	1	1	0	600	600	0
6/18/2024 13:21	66505	SMAN_T2	4	4	0	0.25	0.68	0.43	0.16	0.13	3	3	0	1700	1700	0
6/18/2024 13:21	66501	SMAN_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
6/18/2024 13:21	47104	MARL_T1	26	45	19	0.89	0.91	0.02	0	0	0	0	0	0	0	0
6/18/2024 13:21	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/18/2024 13:21	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 13:22	56801	BENV_T1	2	4	2	0.7	0.33	-0.37	0	0	0	0	0	0	0	0
6/18/2024 13:22	64101	REFR_T1	0	0	0	0	0	0	0.09	0.13	0	0	0	0	0	0
6/18/2024 13:22	56803	BENV_T1	9	11	2	2.61	2.95	0.34	0.13	0.15	1	1	0	600	600	0
6/18/2024 13:24	64101	REFR_T1	0	0	0	0	0	0	0.09	0.13	0	0	0	0	0	0
6/18/2024 13:25	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 13:25	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/18/2024 13:25	46206	DANV_T2	3	26	23	0.9	0.51	-0.39	0	0	0	0	0	0	0	0
6/18/2024 13:25	46205	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 13:25	46203	DANV_T2	0	1	1	0	0	0	-1.99	-1.99	0	0	0	0	0	0
6/18/2024 13:25	66501	SMAN_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
6/18/2024 13:25	46204	DANV_T2	8	58	50	0.2	0.28	0.08	0	0	0	0	0	0	0	0
6/18/2024 13:25	66505	SMAN_T2	4	4	0	0.25	0.68	0.43	0.16	0.13	3	3	0	1700	1700	0
6/18/2024 13:26	45502	DERR_T2	181	220	39	0.79	0.92	0.13	0	0	0	0	0	0	0	0
6/18/2024 13:26	46206	DANV_T2	3	26	23	0.9	0.51	-0.39	0	0	0	0	0	0	0	0
6/18/2024 13:26	46204	DANV_T2	8	58	50	0.2	0.28	0.08	0	0	0	0	0	0	0	0
6/18/2024 13:26	46205	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 13:26	45501	DERR_T2	120	140	20	0.78	0.51	-0.27	1.21	1.2	2	2	0	1800	1800	0
6/18/2024 13:26	46203	DANV_T2	0	1	1	0	0	0	-1.99	-1.99	0	0	0	0	0	0
6/18/2024 13:27	53502	EVIL_T2	5	9	4	0.5	0.73	0.23	0	0	0	0	0	0	0	0
6/18/2024 13:27	53501	EVIL_T2	3	7	4	0.37	0.2	-0.17	-1.04	-1.04	5	5	0	2900	2900	0
6/18/2024 13:28	53501	EVIL_T2	3	7	4	0.37	0.2	-0.17	-3.12	-3.12	15	15	0	8700	8700	0
6/18/2024 13:28	46203	DANV_T2	0	1	1	0	0	0	-1.99	-1.99	0	0	0	0	0	0
6/18/2024 13:28	46204	DANV_T2	8	58	50	0.2	0.28	0.08	0	0	0	0	0	0	0	0
6/18/2024 13:28	53502	EVIL_T2	5	9	4	0.5	0.73	0.23	0	0	0	0	0	0	0	0
6/18/2024 13:28	46205	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 13:28	46206	DANV_T2	3	26	23	0.9	0.51	-0.39	0	0	0	0	0	0	0	0
6/18/2024 13:29	46206	DANV_T2	3	26	23	0.9	0.51	-0.39	0	0	0	0	0	0	0	0
6/18/2024 13:29	64201	KINZ_T1	6	17	11	0.45	0.36	-0.09	0	0	0	0	0	0	0	0
6/18/2024 13:29	45502	DERR_T2	181	220	39	0.79	0.92	0.13	0	0	0	0	0	0	0	0
6/18/2024 13:29	46204	DANV_T2	8	58	50	0.2	0.28	0.08	0	0	0	0	0	0	0	0
6/18/2024 13:29	64204	KINZ_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/18/2024 13:29	46205	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 13:29	45501	DERR_T2	120	140	20	0.78	0.51	-0.27	1.21	1.2	2	2	0	1800	1800	0
6/18/2024 13:29	46203	DANV_T2	0	1	1	0	0	0	-1.99	-1.99	0	0	0	0	0	0
6/18/2024 13:29	64203	KINZ_T1	2	4	2	3.5	1.83	-1.67	0.58	0.74	3	3	0	2100	2100	0
6/18/2024 13:29	64202	KINZ_T1	5	9	4	0.46	1.2	0.74	0	0	0	0	0	0	0	0
6/18/2024 13:30	24105	EHAZ_T1	4	4	0	6.18	6.2	0.02	0	0	0	0	0	0	0	0
6/18/2024 13:30	46503	LOHA_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/18/2024 13:30	46501	LOHA_T1	20	20	0	0.79	0.75	-0.04	0	0	0	0	0	0	0	0
6/18/2024 13:30	46504	LOHA_T1	4	4	0	0.53	0.53	0	0	0	0	0	0	0	0	0
6/18/2024 13:30	46502	LOHA_T1	0	0	0	0	0	0	-0.83	-0.83	2	2	0	2400	2400	0
6/18/2024 13:30	61506	EPET_T2	0	0	0	0	0	0	-0.85	-0.84	2	2	0	1800	1800	0
6/18/2024 13:30	53501	EVIL_T2	3	17	14	0.2	0.32	0.12	-1.04	-1.04	5	5	0	2900	2900	0
6/18/2024 13:30	24101	EHAZ_T1	56	84	28	1.44	1.78	0.34	0	0	0	0	0	0	0	0
6/18/2024 13:30	24102	EHAZ_T1	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
6/18/2024 13:30	53502	EVIL_T2	7	11	4	0.74	0.65	-0.09	0	0	0	0	0	0	0	0
6/18/2024 13:30	61501	EPET_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
6/18/2024 13:31	52006	LING_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 13:31	52004	LING_T2	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/18/2024 13:31	52002	LING_T2	9	24	15	0.29	0.34	0.05	0	0	0	0	0	0	0	0
6/18/2024 13:31	65901	SAKR_T2	1	1	0	5.2	5.3	0.1	0.09	0.09	2	2	0	1500	1500	0
6/18/2024 13:33	47802	MOCA_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
6/18/2024 13:33	52004	LING_T2	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
6/18/2024 13:33	52006	LING_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 13:33	52002	LING_T2	9	24	15	0.29	0.34	0.05	0	0	0	0	0	0	0	0
6/18/2024 13:37	43301	WATS_T2	2	3	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/18/2024 13:37	43304	WATS_T2	10	4	-6	0.4	0.3	-0.1	-0.4	-0.85	1	1	0	600	600	0
6/18/2024 13:37	64101	REFR_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
6/18/2024 13:38	64101	REFR_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
6/18/2024 13:38	43304	WATS_T2	10	4	-6	0.4	0.3	-0.1	-0.4	-0.85	1	1	0	600	600	0
6/18/2024 13:38	43301	WATS_T2	2	3	1	0.2	0.4	0.2	0.03	0.09	1	1	0	900	900	0
6/18/2024 13:44	64203	KINZ_T1	4	4	0	1.93	3.45	1.52	0.74	0.84	3	3	0	2100	2100	0
6/18/2024 13:44	64204	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/18/2024 13:44	64201	KINZ_T1	11	13	2	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
6/18/2024 13:44	64202	KINZ_T1	9	1	-8	0.47	1	0.53	0	0	0	0	0	0	0	0
6/18/2024 13:45	20601	GRWO_T2	258	352	94	1.14	1.12	-0.02	0.83	0.8	0	0	0	0	0	0
6/18/2024 13:45	41301	FISH_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/18/2024 13:45	41305	FISH_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
6/18/2024 13:45	53502	EVIL_T2	8	11	3	0.66	0	-0.66	0	0	0	0	0	0	0	0
6/18/2024 13:45	53501	EVIL_T2	6	16	10	0.3	0.3	0	-1.04	-1.01	5	5	0	2900	2900	0
6/18/2024 13:45	41303	FISH_T1	9	9	0	1.7	1.55	-0.15	0	0	0	0	0	0	0	0
6/18/2024 13:47	52004	LING_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
6/18/2024 13:47	52002	LING_T2	13	39	26	0.39	0.51	0.12	0	0	0	0	0	0	0	0
6/18/2024 13:47	52006	LING_T2	0	6	6	0	1	1	0	0	0	0	0	0	0	0
6/18/2024 13:50	43301	WATS_T2	2	4	2	0.7	0.23	-0.47	0	0	0	0	0	0	0	0
6/18/2024 13:50	43304	WATS_T2	4	5	1	0.23	0.3	0.07	-0.4	-0.85	1	1	0	600	600	0
6/18/2024 13:51	14404	SSLA_T1	1	1	0	2.6	2.5	-0.1	0	0	0	0	0	0	0	0
6/18/2024 13:51	14403	SSLA_T1	7	11	4	0.77	1.01	0.24	1.27	1.31	1	1	0	600	600	0
6/18/2024 13:51	14402	SSLA_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 13:51	67901	WNHO_T2	0	0	0	0	0	0	-0.44	-0.43	2	2	0	2100	2100	0
6/18/2024 13:51	14401	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 13:52	58001	WCAR_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
6/18/2024 13:52	67605	WARW_T1	1	1	0	0.5	0.5	0	-0.58	-0.59	0	0	0	0	0	0
6/18/2024 13:52	58003	WCAR_T1	3	3	0	0.17	0.23	0.06	0	0	0	0	0	0	0	0
6/18/2024 13:56	46204	DANV_T2	58	86	28	0.36	0.47	0.11	0	0	0	0	0	0	0	0
6/18/2024 13:56	46206	DANV_T2	25	18	-7	0.45	0.44	-0.01	3.38	3.26	2	2	0	2400	2400	0
6/18/2024 13:56	46205	DANV_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
6/18/2024 13:56	61701	ELIZ_T1	1	1	0	1.3	1.2	-0.1	1.68	1.62	0	0	0	0	0	0
6/18/2024 13:57	61701	ELIZ_T1	1	1	0	1.3	1.2	-0.1	1.68	1.62	0	0	0	0	0	0
6/18/2024 13:57	53903	HALI_T2	5	4	-1	0.48	0.55	0.07	0.31	0.31	0	0	0	0	0	0
6/18/2024 13:57	53902	HALI_T2	1	1	0	4.1	4.2	0.1	0	0	0	0	0	0	0	0
6/18/2024 13:57	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 13:58	46206	DANV_T2	25	18	-7	0.45	0.44	-0.01	1.69	1.63	1	1	0	1200	1200	0
6/18/2024 13:58	53903	HALI_T2	5	4	-1	0.48	0.55	0.07	0.15	0.15	0	0	0	0	0	0
6/18/2024 13:58	53902	HALI_T2	1	1	0	4.1	4.2	0.1	0	0	0	0	0	0	0	0
6/18/2024 13:58	46205	DANV_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
6/18/2024 13:58	46204	DANV_T2	58	86	28	0.36	0.47	0.11	0	0	0	0	0	0	0	0
6/18/2024 13:59	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 13:59	64301	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 13:59	64305	LINC_T1	1	1	0	0.7	1	0.3	0.03	0.06	0	0	0	0	0	0
6/18/2024 13:59	61701	ELIZ_T1	1	1	0	1.3	1.2	-0.1	1.68	1.62	0	0	0	0	0	0
6/18/2024 14:00	64202	KINZ_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
6/18/2024 14:00	64201	KINZ_T1	6	13	7	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
6/18/2024 14:00	64904	MILL_T1	2	2	0	0.25	0	-0.25	0.82	0.75	0	0	0	0	0	0
6/18/2024 14:00	64203	KINZ_T1	2	13	11	3.45	1.05	-2.4	0.84	0.76	3	3	0	2100	2100	0
6/18/2024 14:00	53501	EVIL_T2	14	6	-8	0.44	1	0.56	-1.01	-0.81	5	5	0	2900	2900	0
6/18/2024 14:00	64204	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/18/2024 14:00	53502	EVIL_T2	11	0	-11	0.66	0	-0.66	0	0	0	0	0	0	0	0
6/18/2024 14:01	53501	EVIL_T2	14	6	-8	0.44	1	0.56	-2.02	-1.62	10	10	0	5800	5800	0
6/18/2024 14:01	53902	HALI_T2	1	1	0	4	4.2	0.2	0	0	0	0	0	0	0	0
6/18/2024 14:01	53502	EVIL_T2	11	0	-11	0.66	0	-0.66	0	0	0	0	0	0	0	0
6/18/2024 14:01	53903	HALI_T2	4	2	-2	0.55	0.3	-0.25	0.15	0.15	0	0	0	0	0	0
6/18/2024 14:02	64301	LINC_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/18/2024 14:02	53902	HALI_T2	1	1	0	4	4.2	0.2	0	0	0	0	0	0	0	0
6/18/2024 14:02	64305	LINC_T1	1	1	0	1	0.9	-0.1	0.03	0.06	0	0	0	0	0	0
6/18/2024 14:02	64303	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 14:02	53903	HALI_T2	4	2	-2	0.55	0.3	-0.25	0.15	0.15	0	0	0	0	0	0
6/18/2024 14:04	64303	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 14:04	45602	WOOL_T1	0	1	1	0	0.3	0.3	0.89	0.95	0	0	0	0	0	0
6/18/2024 14:04	64301	LINC_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/18/2024 14:04	64305	LINC_T1	1	1	0	1	0.9	-0.1	0.03	0.06	0	0	0	0	0	0
6/18/2024 14:07	45402	WBLO_T2	0	0	0	0	0	0	-0.56	-0.48	1	1	0	900	900	0
6/18/2024 14:07	56801	BENF_T1	4	9	5	0.7	0.7	0	0.25	0.3	5	5	0	3000	3000	0
6/18/2024 14:07	61701	ELIZ_T1	1	1	0	1.2	1	-0.2	1.62	1.48	0	0	0	0	0	0
6/18/2024 14:07	56803	BENV_T1	12	7	-5	2.11	3.62	1.51	0	0	0	0	0	0	0	0
6/18/2024 14:08	67901	WNHO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 14:08	56801	BENV_T1	4	9	5	0.7	0.7	0	0.1	0.12	2	2	0	1200	1200	0
6/18/2024 14:08	67902	WNHO_T2	0	2	2	0	0	0	1.17	1.19	2	2	0	2100	2100	0
6/18/2024 14:08	56803	BENV_T1	12	7	-5	2.11	3.62	1.51	0	0	0	0	0	0	0	0
6/18/2024 14:09	49803	UNIV_T1	0	0	0	0	0	0	-1.25	-1.29	0	0	0	0	0	0
6/18/2024 14:09	44301	BEAV_T2	10	43	33	0.82	0.43	-0.39	1.03	0.22	2	2	0	1500	1500	0
6/18/2024 14:09	56801	BENV_T1	4	9	5	0.7	0.7	0	0.05	0.06	1	1	0	600	600	0
6/18/2024 14:09	56803	BENV_T1	12	7	-5	2.11	3.62	1.51	0	0	0	0	0	0	0	0
6/18/2024 14:09	49804	UNIV_T1	2	3	1	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
6/18/2024 14:10	10702	CATA_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
6/18/2024 14:10	44301	BEAV_T2	10	43	33	0.82	0.43	-0.39	1.03	0.22	2	2	0	1500	1500	0
6/18/2024 14:10	10701	CATA_T2	5	12	7	1.46	0.4	-1.06	0	0	0	0	0	0	0	0
6/18/2024 14:10	56803	BENV_T1	12	7	-5	2.11	3.62	1.51	0	0	0	0	0	0	0	0
6/18/2024 14:10	56801	BENV_T1	4	9	5	0.7	0.7	0	0.15	0.18	3	3	0	1800	1800	0
6/18/2024 14:10	10705	CATA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/18/2024 14:11	44301	BEAV_T2	10	43	33	0.82	0.43	-0.39	1.03	0.22	2	2	0	1500	1500	0
6/18/2024 14:11	56803	BENV_T1	12	7	-5	2.11	3.62	1.51	0	0	0	0	0	0	0	0
6/18/2024 14:11	61303	EARL_T1	2	3	1	0.85	0.77	-0.08	0.58	0.53	0	0	0	0	0	0
6/18/2024 14:11	61304	EARL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/18/2024 14:11	56801	BENV_T1	4	9	5	0.7	0.7	0	0.05	0.06	1	1	0	600	600	0
6/18/2024 14:12	61303	EARL_T1	2	3	1	0.85	0.77	-0.08	0.58	0.53	0	0	0	0	0	0
6/18/2024 14:12	61304	EARL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/18/2024 14:12	44301	BEAV_T2	10	43	33	0.82	0.43	-0.39	1.03	0.22	2	2	0	1500	1500	0
6/18/2024 14:13	53903	HALI_T2	4	2	-2	0.55	0.3	-0.25	0.15	0.22	0	0	0	0	0	0
6/18/2024 14:13	53902	HALI_T2	1	1	0	4	4.2	0.2	0	0	0	0	0	0	0	0
6/18/2024 14:16	52002	LING_T2	38	51	13	0.49	0.57	0.08	0.36	0.4	1	1	0	900	900	0
6/18/2024 14:16	64204	KINZ_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/18/2024 14:16	64203	KINZ_T1	6	13	7	1.05	0.94	-0.11	0.76	0.88	3	3	0	2100	2100	0
6/18/2024 14:16	52006	LING_T2	4	1	-3	0.83	0	-0.83	0	0	0	0	0	0	0	0
6/18/2024 14:16	64201	KINZ_T1	3	14	11	0.3	0.43	0.13	0	0	0	0	0	0	0	0
6/18/2024 14:20	57403	SPAN_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 14:20	55003	NEWP_T2	0	0	0	0	0	0	-0.73	-0.71	1	1	0	600	600	0
6/18/2024 14:20	57401	SPAN_T1	0	4	4	0	0.2	0.2	-0.7	-1.55	1	2	1	600	1500	900
6/18/2024 14:22	56504	ROCK_T2	6	12	6	0.28	0.87	0.59	-0.21	-0.31	0	0	0	0	0	0
6/18/2024 14:22	57401	SPAN_T1	0	4	4	0	0.2	0.2	-1.55	-1.36	2	2	0	1500	1500	0
6/18/2024 14:22	67602	WARW_T2	0	0	0	0	0	0	0.71	0.88	4	4	0	3000	3000	0
6/18/2024 14:22	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/18/2024 14:22	57403	SPAN_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 14:22	56801	BENV_T1	5	8	3	0.48	0.61	0.13	0.06	0.11	1	1	0	600	600	0
6/18/2024 14:22	56803	BENV_T1	7	7	0	3.86	3.2	-0.66	0	0	0	0	0	0	0	0
6/18/2024 14:22	56501	ROCK_T2	2	2	0	1.15	0.5	-0.65	0	0	0	0	0	0	0	0
6/18/2024 14:23	56803	BENV_T1	7	7	0	3.86	3.2	-0.66	0	0	0	0	0	0	0	0
6/18/2024 14:23	57401	SPAN_T1	0	4	4	0	0.2	0.2	-3.1	-2.72	4	4	0	3000	3000	0
6/18/2024 14:23	57403	SPAN_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 14:23	56801	BENV_T1	5	8	3	0.48	0.61	0.13	0.18	0.33	3	3	0	1800	1800	0
6/18/2024 14:24	10805	CHHI_T2	389	496	107	1.22	1.63	0.41	0.44	0.62	1	1	0	600	600	0
6/18/2024 14:24	57403	SPAN_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 14:24	67602	WARW_T2	0	0	0	0	0	0	0.35	0.44	2	2	0	1500	1500	0
6/18/2024 14:24	67902	WNHO_T2	0	2	2	0	0	0	1.19	1.38	2	2	0	2100	2100	0
6/18/2024 14:24	20401	ASHF_T2	11	23	12	0.95	0.83	-0.12	0	0	0	0	0	0	0	0
6/18/2024 14:24	20402	ASHF_T2	17	72	55	0.87	0.68	-0.19	0	0	0	0	0	0	0	0
6/18/2024 14:24	67901	WNHO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 14:24	56801	BENV_T1	5	8	3	0.48	0.61	0.13	0.06	0.11	1	1	0	600	600	0
6/18/2024 14:24	56803	BENV_T1	7	7	0	3.86	3.2	-0.66	0	0	0	0	0	0	0	0
6/18/2024 14:24	57401	SPAN_T1	0	4	4	0	0.2	0.2	-1.55	-1.36	2	2	0	1500	1500	0
6/18/2024 14:24	20403	ASHF_T2	23	76	53	0.52	0.57	0.05	0.28	0.66	0	0	0	0	0	0
6/18/2024 14:25	57401	SPAN_T1	0	4	4	0	0.2	0.2	-1.55	-1.36	2	2	0	1500	1500	0
6/18/2024 14:25	57403	SPAN_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 14:26	20401	ASHF_T2	11	23	12	0.95	0.83	-0.12	0	0	0	0	0	0	0	0
6/18/2024 14:26	20402	ASHF_T2	17	72	55	0.87	0.68	-0.19	0	0	0	0	0	0	0	0
6/18/2024 14:26	56803	BENV_T1	7	7	0	3.86	3.2	-0.66	0	0	0	0	0	0	0	0
6/18/2024 14:26	56801	BENV_T1	5	8	3	0.48	0.61	0.13	0.12	0.22	2	2	0	1200	1200	0
6/18/2024 14:26	20403	ASHF_T2	23	76	53	0.52	0.57	0.05	0.28	0.66	0	0	0	0	0	0
6/18/2024 14:27	56501	ROCK_T2	2	2	0	1.15	0.5	-0.65	0	0	0	0	0	0	0	0
6/18/2024 14:27	61702	ELIZ_T2	0	1	1	0	0	-1.66	-1.7	2	2	0	0	1500	1500	0
6/18/2024 14:27	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/18/2024 14:27	56504	ROCK_T2	6	12	6	0.28	0.87	0.59	-0.21	-0.31	0	0	0	0	0	0
6/18/2024 14:28	40902	JESH_T1	2	1	-1	1.75	0.3	-1.45	-1.29	-1.3	3	3	0	1800	1800	0
6/18/2024 14:28	40901	JESH_T1	1	1	0	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
6/18/2024 14:28	65901	SAKR_T2	2	8	6	2.5	1.43	-1.07	0.26	0.24	4	4	0	3000	3000	0
6/18/2024 14:28	10805	CHHI_T2	389	496	107	1.22	1.63	0.41	0.44	0.62	1	1	0	600	600	0
6/18/2024 14:28	65902	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 14:29	61701	ELIZ_T1	1	1	0	1	0.7	-0.3	1.48	1.62	0	0	0	0	0	0
6/18/2024 14:32	64904	MILL_T1	0	0	0	0	0	0	0.82	-0.35	0	0	0	0	0	0
6/18/2024 14:33	40902	JESH_T1	1	1	0	1.9	0	-1.9	-1.29	-1.3	3	3	0	1800	1800	0
6/18/2024 14:33	40901	JESH_T1	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
6/18/2024 14:36	40601	PIGR_T1	2	3	1	0.25	0.25	0	0	0	0	0	0	0	0	0
6/18/2024 14:36	40603	PIGR_T1	43	53	10	0.94	0.85	-0.09	0	0	0	0	0	0	0	0
6/18/2024 14:36	40602	PIGR_T1	3	8	5	0.7	0.56	-0.14	0	0	1	1	0	600	600	0
6/18/2024 14:37	56803	BENV_T1	6	10	4	3.62	3	-0.62	0	0	0	0	0	0	0	0
6/18/2024 14:37	56801	BENV_T1	7	11	4	0.61	0.38	-0.23	0.11	0.08	1	1	0	600	600	0
6/18/2024 14:39	56803	BENV_T1	6	10	4	3.62	3	-0.62	0	0	0	0	0	0	0	0
6/18/2024 14:39	56801	BENV_T1	7	11	4	0.61	0.38	-0.23	0.11	0.08	1	1	0	600	600	0
6/18/2024 14:40	46206	DANV_T2	18	29	11	0.48	0.45	-0.03	1.61	1.66	1	1	0	1200	1200	0
6/18/2024 14:40	46205	DANV_T2	5	3	-2	0.64	0.25	-0.39	0	0	0	0	0	0	0	0
6/18/2024 14:40	46204	DANV_T2	95	100	5	0.5	0.42	-0.08	0	0	0	0	0	0	0	0
6/18/2024 14:41	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/18/2024 14:41	29402	BELT_T1	1	3	2	7.8	4.05	-3.75	0	0	0	0	0	0	0	0
6/18/2024 14:42	46204	DANV_T2	95	100	5	0.5	0.42	-0.08	0	0	0	0	0	0	0	0
6/18/2024 14:42	46205	DANV_T2	5	3	-2	0.64	0.25	-0.39	0	0	0	0	0	0	0	0
6/18/2024 14:42	46206	DANV_T2	18	29	11	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
6/18/2024 14:42	46203	DANV_T2	0	0	0	0	0	0	-1.97	-1.89	0	0	0	0	0	0
6/18/2024 14:43	23403	HONE_T1	0	0	0	0	0	0	-0.1	-0.07	0	0	0	0	0	0
6/18/2024 14:43	11102	EGYP_T1	23	29	6	1.17	1.09	-0.08	0	0	0	0	0	0	0	0
6/18/2024 14:43	11101	EGYP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/18/2024 14:43	61303	EARL_T1	3	2	-1	0.8	0	-0.8	0.58	0.42	0	0	0	0	0	0
6/18/2024 14:43	61304	EARL_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/18/2024 14:43	11104	EGYP_T1	18	25	7	1.13	1.15	0.02	0.44	0.47	1	1	0	900	900	0
6/18/2024 14:44	11902	ETEX_T1	8	12	4	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
6/18/2024 14:44	53501	EVIL_T2	5	5	0	0.98	0.68	-0.3	0	0	0	0	0	0	0	0
6/18/2024 14:44	11903	ETEX_T1	15	30	15	0.35	0.36	0.01	3	3.14	0	0	0	0	0	0
6/18/2024 14:44	53502	EVIL_T2	0	0	0	0	0	0	-1.25	-1.25	3	3	0	2100	2100	0
6/18/2024 14:46	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 14:46	11102	EGYP_T1	25	28	3	1	1.17	0.17	0	0	0	0	0	0	0	0
6/18/2024 14:46	11104	EGYP_T1	23	41	18	1.23	1.08	-0.15	0.44	0.47	1	1	0	900	900	0
6/18/2024 14:51	45302	WBER_T2	10	12	2	0.57	0.63	0.06	1.89	1.93	0	0	0	0	0	0
6/18/2024 14:51	64101	REFR_T1	1	3	2	0.1	0	-0.1	0.15	0.2	0	0	0	0	0	0
6/18/2024 14:52	56501	ROCK_T2	2	3	1	0.5	0.6	0.1	-1.29	-1.23	0	0	0	0	0	0
6/18/2024 14:52	56503	ROCK_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/18/2024 14:52	43301	WATS_T2	3	3	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/18/2024 14:52	56504	ROCK_T2	10	14	4	1.21	0.4	-0.81	0	0	0	0	0	0	0	0
6/18/2024 14:52	43304	WATS_T2	8	25	17	0.58	0.45	-0.13	-2.2	-2.28	2	2	0	1200	1200	0
6/18/2024 14:53	56504	ROCK_T2	10	14	4	1.21	0.4	-0.81	0	0	0	0	0	0	0	0
6/18/2024 14:53	10102	ALLE_T2	2	3	1	4.15	4.15	0	0	0	0	0	0	0	0	0
6/18/2024 14:53	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 14:53	56501	ROCK_T2	2	3	1	0.5	0.6	0.1	-1.29	-1.23	0	0	0	0	0	0
6/18/2024 14:53	10204	ALLE_T2	11	27	16	0.49	0.3	-0.19	0	0	0	0	0	0	0	0
6/18/2024 14:53	56503	ROCK_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/18/2024 14:53	45302	WBER_T2	10	12	2	0.57	0.63	0.06	1.89	1.93	0	0	0	0	0	0
6/18/2024 14:54	64101	REFR_T1	1	3	2	0.1	0	-0.1	0.15	0.2	0	0	0	0	0	0
6/18/2024 14:54	56503	ROCK_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/18/2024 14:54	43304	WATS_T2	8	25	17	0.58	0.45	-0.13	-1.1	-1.14	1	1	0	600	600	0
6/18/2024 14:54	43301	WATS_T2	3	3	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/18/2024 14:54	56504	ROCK_T2	10	14	4	1.21	0.4	-0.81	0	0	0	0	0	0	0	0
6/18/2024 14:54	56501	ROCK_T2	2	3	1	0.5	0.6	0.1	-2.58	-2.46	0	0	0	0	0	0
6/18/2024 14:55	64101	REFR_T1	1	3	2	0.1	0	-0.1	0.15	0.2	0	0	0	0	0	0
6/18/2024 14:55	56503	ROCK_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/18/2024 14:55	43304	WATS_T2	8	25	17	0.58	0.45	-0.13	-1.1	-1.14	1	1	0	600	600	0
6/18/2024 14:55	56504	ROCK_T2	10	14	4	1.21	0.4	-0.81	0	0	0	0	0	0	0	0
6/18/2024 14:55	56501	ROCK_T2	2	3	1	0.5	0.6	0.1	-2.58	-2.46	0	0	0	0	0	0
6/18/2024 14:55	43301	WATS_T2	3	3	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/18/2024 14:56	56501	ROCK_T2	2	3	1	0.5	0.6	0.1	-1.29	-1.23	0	0	0	0	0	0
6/18/2024 14:56	56504	ROCK_T2	10	14	4	1.21	0.4	-0.81	0	0	0	0	0	0	0	0
6/18/2024 14:56	56503	ROCK_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/18/2024 14:58	10805	CHHI_T2	496	414	-82	1.86	1.37	-0.49	0.28	0.23	1	1	0	600	600	0
6/18/2024 15:02	51401	LYKE_T1	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
6/18/2024 15:02	46501	LOHA_T1	11	17	6	0.54	0.46	-0.08	0	0	0	0	0	0	0	0
6/18/2024 15:02	46505	LOHA_T1	0	0	0	0	0	0	-0.03	-0.05	1	1	0	600	600	0
6/18/2024 15:02	46504	LOHA_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/18/2024 15:06	56501	ROCK_T2	3	1	-2	0.43	1	0.57	-1.29	-1.23	0	0	0	0	0	0
6/18/2024 15:06	56504	ROCK_T2	9	13	4	0.44	0.48	0.04	0	0	0	0	0	0	0	0
6/18/2024 15:06	56503	ROCK_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/18/2024 15:08	14705	TREX_T1	1	9	8	0.3	0.2	-0.1	1.65	1.59	0	0	0	0	0	0
6/18/2024 15:09	64101	REFR_T1	0	3	3	0	0.13	0.13	0.2	0.14	0	0	0	0	0	0
6/18/2024 15:10	45501	DERR_T2	121	115	-6	0.51	0.5	-0.01	1.38	1.28	2	2	0	1800	1800	0
6/18/2024 15:10	45502	DERR_T2	207	179	-28	1.06	0.7	-0.36	0	0	0	0	0	0	0	0
6/18/2024 15:11	45501	DERR_T2	121	115	-6	0.51	0.5	-0.01	1.38	1.28	2	2	0	1800	1800	0
6/18/2024 15:11	64101	REFR_T1	0	3	3	0	0.13	0.13	0.2	0.14	0	0	0	0	0	0
6/18/2024 15:11	45502	DERR_T2	207	179	-28	1.06	0.7	-0.36	0	0	0	0	0	0	0	0
6/18/2024 15:13	45501	DERR_T2	121	115	-6	0.51	0.5	-0.01	2.76	2.56	4	4	0	3600	3600	0
6/18/2024 15:13	61301	EARL_T1	0	0	0	0	0	0	-1.11	-1.09	2	2	0	1800	1800	0
6/18/2024 15:13	45502	DERR_T2	207	179	-28	1.06	0.7	-0.36	0	0	0	0	0	0	0	0
6/18/2024 15:14	45502	DERR_T2	207	179	-28	1.06	0.7	-0.36	0	0	0	0	0	0	0	0
6/18/2024 15:14	20601	GRWO_T2	311	298	-13	1.15	0.9	-0.25	0.76	0.62	0	0	0	0	0	0
6/18/2024 15:14	45501	DERR_T2	121	115	-6	0.51	0.5	-0.01	2.76	2.56	4	4	0	3600	3600	0
6/18/2024 15:15	11903	ETEX_T1	14	15	1	0.41	0.27	-0.14	1.55	1.56	0	0	0	0	0	0
6/18/2024 15:15	42902	MIDD_T2	53	53	0	1.86	0.85	-1.01	0.03	-0.2	2	1	-1	900	600	-300
6/18/2024 15:15	42901	MIDD_T2	2	3	1	0.95	0.6	-0.35	0	0	0	0	0	0	0	0
6/18/2024 15:15	11902	ETEX_T1	12	0	-12	0.32	0	-0.32	0	0	0	0	0	0	0	0
6/18/2024 15:15	42903	MIDD_T2	0	7	7	0	0.5	0.5	0	0	0	0	0	0	0	0
6/18/2024 15:15	51401	LYKE_T1	0	1	1	0	0	0	0.03	0.02	0	0	0	0	0	0
6/18/2024 15:15	61301	EARL_T1	0	0	0	0	0	0	-1.11	-1.09	2	2	0	1800	1800	0
6/18/2024 15:16	65402	MARI_T1	12	8	-4	1.27	1.45	0.18	0	0	0	0	0	0	0	0
6/18/2024 15:16	41801	GOCI_T2	3	3	0	0.43	0.2	-0.23	0	0	1	1	0	900	900	0
6/18/2024 15:16	11902	ETEX_T1	12	0	-12	0.32	0	-0.32	0	0	0	0	0	0	0	0
6/18/2024 15:16	11903	ETEX_T1	14	15	1	0.41	0.27	-0.14	1.55	1.56	0	0	0	0	0	0
6/18/2024 15:16	65401	MARI_T1	17	17	0	4.93	2.29	-2.64	0	0	0	0	0	0	0	0
6/18/2024 15:17	42901	MIDD_T2	2	3	1	0.95	0.6	-0.35	0	0	0	0	0	0	0	0
6/18/2024 15:17	64203	KINZ_T1	11	18	7	0.85	1.23	0.38	0	0	0	0	0	0	0	0
6/18/2024 15:17	64204	KINZ_T1	1	2	1	0.1	0.7	0.6	0	0	0	0	0	0	0	0
6/18/2024 15:17	42903	MIDD_T2	0	7	7	0	0.5	0.5	0	0	0	0	0	0	0	0
6/18/2024 15:17	64202	KINZ_T1	1	1	0	0.1	0	-0.1	1.07	1.03	0	0	0	0	0	0
6/18/2024 15:17	64201	KINZ_T1	22	123	101	0.36	0	-0.36	0	0	0	0	0	0	0	0
6/18/2024 15:17	42902	MIDD_T2	53	53	0	1.86	0.85	-1.01	0.03	-0.2	2	1	-1	900	600	-300
6/18/2024 15:18	65401	MARI_T1	17	17	0	4.93	2.29	-2.64	0	0	0	0	0	0	0	0
6/18/2024 15:18	13103	NHAM_T2	9	7	-2	0.48	0.48	0	0	0	0	0	0	0	0	0
6/18/2024 15:18	13105	NHAM_T2	20	38	18	0.53	0.62	0.09	-1.47	-1.45	1	1	0	1200	1200	0
6/18/2024 15:18	65402	MARI_T1	12	8	-4	1.27	1.45	0.18	0	0	0	0	0	0	0	0
6/18/2024 15:19	42901	MIDD_T2	2	3	1	0.95	0.6	-0.35	0	0	0	0	0	0	0	0
6/18/2024 15:19	42902	MIDD_T2	53	53	0	1.86	0.85	-1.01	0.03	-0.2	2	1	-1	900	600	-300
6/18/2024 15:19	65402	MARI_T1	12	8	-4	1.27	1.45	0.18	0	0	0	0	0	0	0	0
6/18/2024 15:19	65401	MARI_T1	17	17	0	4.93	2.29	-2.64	0	0	0	0	0	0	0	0
6/18/2024 15:19	42903	MIDD_T2	0	7	7	0	0.5	0.5	0	0	0	0	0	0	0	0
6/18/2024 15:20	42902	MIDD_T2	53	53	0	1.86	0.85	-1.01	0.03	-0.2	2	1	-1	900	600	-300
6/18/2024 15:20	42903	MIDD_T2	0	7	7	0	0.5	0.5	0	0	0	0	0	0	0	0
6/18/2024 15:20	64101	REFR_T1	3	3	0	0.13	0.33	0.2	0.2	0.14	0	0	0	0	0	0
6/18/2024 15:20	42901	MIDD_T2	2	3	1	0.95	0.6	-0.35	0	0	0	0	0	0	0	0
6/18/2024 15:21	56801	BENV_T1	9	8	-1	0.46	0.8	0.34	0.24	0.16	2	2	0	1200	1200	0
6/18/2024 15:21	56803	BENV_T1	10	9	-1	2.16	1.99	-0.17	0	0	0	0	0	0	0	0
6/18/2024 15:21	42902	MIDD_T2	53	53	0	1.86	0.85	-1.01	-0.2	-0.3	2	1	-1	900	600	-300
6/18/2024 15:21	42903	MIDD_T2	0	7	7	0	0.5	0.5	0	0	0	0	0	0	0	0
6/18/2024 15:21	42901	MIDD_T2	2	3	1	0.95	0.6	-0.35	0	0	0	0	0	0	0	0
6/18/2024 15:22	56803	BENV_T1	10	9	-1	2.16	1.99	-0.17	0	0	0	0	0	0	0	0
6/18/2024 15:22	56801	BENV_T1	9	8	-1	0.46	0.8	0.34	0.08	0.11	1	1	0	600	600	0
6/18/2024 15:24	56803	BENV_T1	10	9	-1	2.16	1.99	-0.17	0	0	0	0	0	0	0	0
6/18/2024 15:24	56801	BENV_T1	9	8	-1	0.46	0.8	0.34	0.16	0.22	2	2	0	1200	1200	0
6/18/2024 15:25	46204	DANV_T2	99	117	18	0.52	0.77	0.25	0	0	0	0	0	0	0	0
6/18/2024 15:25	46203	DANV_T2	0	3	3	0	0.2	0.2	-3.58	-3.64	0	0	0	0	0	0
6/18/2024 15:25	46205	DANV_T2	4	5	1	0.8	0.85	0.05	0	0	0	0	0	0	0	0
6/18/2024 15:25	46206	DANV_T2	23	41	18	0.72	0.57	-0.15	0	0	0	0	0	0	0	0
6/18/2024 15:26	27004	BELL_T1	21	25	4	1.32	1.16	-0.16	0	0	0	0	0	0	0	0
6/18/2024 15:26	27005	BELL_T1	13	17	4	0.63	0.84	0.21	-0.4	-0.4	0	0	0	0	0	0
6/18/2024 15:26	56803	BENV_T1	10	9	-1	2.16	1.99	-0.17	0	0	0	0	0	0	0	0
6/18/2024 15:26	56801	BENV_T1	9	8	-1	0.46	0.8	0.34	0.16	0.22	2	2	0	1200	1200	0
6/18/2024 15:27	63501	HEID_TBK1-2	0	0	0	0	0	0	0.44	0.22	1	1	0	900	900	0
6/18/2024 15:29	57502	LAWN_T3	20	15	-5	0.62	0.55	-0.07	0	0	0	0	0	0	0	0
6/18/2024 15:29	57503	LAWN_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 15:29	57505	LAWN_T3	3	13	10	0.17	0.37	0.2	0.53	0.54	0	0	0	0	0	0
6/18/2024 15:29	57506	LAWN_T3	24	24	0	0.84	0.29	-0.55	0	0	0	0	0	0	0	0
6/18/2024 15:29	57501	LAWN_T3	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
6/18/2024 15:31	51401	LYKE_T1	0	1	1	0	0	0	0.02	0.6	0	0	0	0	0	0
6/18/2024 15:34	65402	MARI_T1	8	6	-2	1.65	1.12	-0.53	0	0	0	0	0	0	0	0
6/18/2024 15:34	65401	MARI_T1	17	17	0	2.66	2.29	-0.37	0	0	0	0	0	0	0	0
6/18/2024 15:36	57603	RUTH_T2	23	31	8	0.74	0.57	-0.17	0	0	0	0	0	0	0	0
6/18/2024 15:36	57602	RUTH_T2	0	0	0	0	0	0	-1.14	-1.14	0	0	0	0	0	0
6/18/2024 15:40	67602	WARW_T2	0	3	3	0	0	0	0.46	0.54	2	2	0	1500	1500	0
6/18/2024 15:40	29402	BELT_T1	3	3	0	2.57	6.9	4.33	0	0	0	0	0	0	0	0
6/18/2024 15:40	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/18/2024 15:41	63803	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/18/2024 15:41	63804	HEMP_T1	1	1	0	8.1	7.9	-0.2	0	0	0	0	0	0	0	0
6/18/2024 15:41	63802	HEMP_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
6/18/2024 15:44	45501	DERR_T2	87	81	-6	0.51	0.44	-0.07	1.29	1.18	2	2	0	1800	1800	0
6/18/2024 15:44	45502	DERR_T2	144	96	-48	0.71	0.51	-0.2	0	0	0	0	0	0	0	0
6/18/2024 15:45	64201	KINZ_T1	0	0	0	0	0	0	-1	-0.97	5	5	0	3300	3300	0
6/18/2024 15:45	64203	KINZ_T1	6	2	-4	1.23	0.8	-0.43	0	0	0	0	0	0	0	0
6/18/2024 15:45	64204	KINZ_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/18/2024 15:46	12301	LANA_T2	2	4	2	0.5	0.5	0	0	0	0	0	0	0	0	0
6/18/2024 15:46	12302	LANA_T2	6	15	9	0.48	0.1	-0.38	-1.38	-1.35	3	3	0	2700	2700	0
6/18/2024 15:46	12304	LANA_T2	251	241	-10	1.04	1.06	0.02	0	0	0	0	0	0	0	0
6/18/2024 15:46	20601	GRWO_T2	208	275	67	1.04	1.08	0.04	0.58	0.58	0	0	0	0	0	0
6/18/2024 15:46	12305	LANA_T2	11	22	11	0.56	0.53	-0.03	0	0	0	0	0	0	0	0
6/18/2024 15:47	42903	MIDD_T2	7	5	-2	0.49	0	-0.49	0	0	0	0	0	0	0	0
6/18/2024 15:47	42902	MIDD_T2	53	54	1	1.65	1.37	-0.28	-0.3	-0.32	1	1	0	600	600	0
6/18/2024 15:47	42901	MIDD_T2	3	3	0	1.33	0.85	-0.48	0	0	0	0	0	0	0	0
6/18/2024 15:49	42903	MIDD_T2	7	5	-2	0.49	0	-0.49	0	0	0	0	0	0	0	0
6/18/2024 15:49	47402	PENS_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 15:49	41902	REED_T1	150	184	34	0.74	0.85	0.11	0.05	0.03	1	1	0	900	900	0
6/18/2024 15:49	42901	MIDD_T2	3	3	0	1.33	0.85	-0.48	0	0	0	0	0	0	0	0
6/18/2024 15:49	41903	REED_T1	6	7	1	1.32	0.28	-1.04	0	0	0	0	0	0	0	0
6/18/2024 15:49	42902	MIDD_T2	53	54	1	1.65	1.37	-0.28	-0.3	-0.32	1	1	0	600	600	0
6/18/2024 15:49	47401	PENS_T1	13	16	3	0.75	0.72	-0.03	0.57	0.58	0	0	0	0	0	0
6/18/2024 15:49	66701	STRA_T1	3	3	0	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
6/18/2024 15:49	41901	REED_T1	1	4	3	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
6/18/2024 15:49	66703	STRA_T1	1	1	0	0.1	0.1	0	0.1	0.14	0	0	0	0	0	0
6/18/2024 15:49	47403	PENS_T1	1	2	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
6/18/2024 15:50	47401	PENS_T1	13	16	3	0.75	0.72	-0.03	0.57	0.58	0	0	0	0	0	0
6/18/2024 15:50	47402	PENS_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 15:50	47403	PENS_T1	1	2	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
6/18/2024 15:51	41903	REED_T1	6	7	1	1.32	0.28	-1.04	0	0	0	0	0	0	0	0
6/18/2024 15:51	41902	REED_T1	150	184	34	0.74	0.85	0.11	0.05	0.03	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/18/2024 15:51	41901	REED_T1	1	4	3	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
6/18/2024 15:52	66503	SMAN_T2	21	17	-4	0.64	0.8	0.16	0	0	0	0	0	0	0	0
6/18/2024 15:52	66504	SMAN_T2	7	11	4	0.71	0.32	-0.39	0	0	0	0	0	0	0	0
6/18/2024 15:52	56801	BENV_T1	4	7	3	0.75	0.5	-0.25	0.2	0.24	2	2	0	1200	1200	0
6/18/2024 15:52	56803	BENV_T1	8	5	-3	1.99	3.7	1.71	0	0	0	0	0	0	0	0
6/18/2024 15:52	66505	SMAN_T2	0	4	4	0	0.2	0.2	0	0.09	3	3	0	1700	1700	0
6/18/2024 15:53	56803	BENV_T1	8	5	-3	1.99	3.7	1.71	0	0	0	0	0	0	0	0
6/18/2024 15:53	56801	BENV_T1	4	7	3	0.75	0.5	-0.25	0.3	0.36	3	3	0	1800	1800	0
6/18/2024 15:54	44301	BEAV_T2	79	39	-40	0.75	0.69	-0.06	0.02	0.07	2	2	0	1500	1500	0
6/18/2024 15:55	25601	ARRO_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
6/18/2024 15:55	56801	BENV_T1	4	7	3	0.75	0.5	-0.25	0.2	0.24	2	2	0	1200	1200	0
6/18/2024 15:55	56803	BENV_T1	8	5	-3	1.99	3.7	1.71	0	0	0	0	0	0	0	0
6/18/2024 15:56	56803	BENV_T1	8	5	-3	1.99	3.7	1.71	0	0	0	0	0	0	0	0
6/18/2024 15:56	15001	BLMO_T1	18	32	14	0.59	0.44	-0.15	0	0	0	0	0	0	0	0
6/18/2024 15:56	56801	BENV_T1	4	7	3	0.75	0.5	-0.25	0.1	0.12	1	1	0	600	600	0
6/18/2024 15:57	44301	BEAV_T2	79	39	-40	0.75	0.69	-0.06	0.02	0.07	2	2	0	1500	1500	0
6/18/2024 16:00	53501	EVIL_T2	1	4	3	0.3	0.4	0.1	-1.26	-0.8	5	5	0	2900	2900	0
6/18/2024 16:03	58705	ROSE_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/18/2024 16:03	58706	ROSE_T2	6	7	1	0.73	0.84	0.11	0.59	0.62	1	1	0	600	600	0
6/18/2024 16:03	58702	ROSE_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 16:03	58701	ROSE_T2	14	11	-3	0.88	0.53	-0.35	0	0	0	0	0	0	0	0
6/18/2024 16:05	47403	PENS_T1	2	1	-1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
6/18/2024 16:05	47401	PENS_T1	13	15	2	0.72	0.92	0.2	1.16	1.32	0	0	0	0	0	0
6/18/2024 16:05	47402	PENS_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 16:06	56504	ROCK_T2	9	12	3	1.92	0.91	-1.01	0	0	0	0	0	0	0	0
6/18/2024 16:06	13105	NHAM_T2	48	77	29	0.89	0.79	-0.1	0	0	0	0	0	0	0	0
6/18/2024 16:06	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 16:06	13102	NHAM_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 16:06	13103	NHAM_T2	7	17	10	1	0.78	-0.22	-0.81	-0.86	1	1	0	600	600	0
6/18/2024 16:06	56501	ROCK_T2	5	5	0	0.92	0.6	-0.32	-1.21	-1.18	0	0	0	0	0	0
6/18/2024 16:07	41901	REED_T1	2	6	4	0.25	0.3	0.05	0	0	0	0	0	0	0	0
6/18/2024 16:07	41903	REED_T1	7	28	21	1.21	0	-1.21	0.75	0.54	1	1	0	1200	1200	0
6/18/2024 16:07	41902	REED_T1	183	167	-16	0.99	0.5	-0.49	0	0	0	0	0	0	0	0
6/18/2024 16:07	49803	UNIV_T1	0	0	0	0	0	0	-1.18	-1.36	0	0	0	0	0	0
6/18/2024 16:07	49804	UNIV_T1	2	5	3	1.25	0.8	-0.45	0	0	0	0	0	0	0	0
6/18/2024 16:08	64101	REFR_T1	6	4	-2	0.75	0.33	-0.42	0.27	0.24	0	0	0	0	0	0
6/18/2024 16:08	41903	REED_T1	7	28	21	1.21	0	-1.21	0.75	0.54	1	1	0	1200	1200	0
6/18/2024 16:08	41902	REED_T1	183	167	-16	0.99	0.5	-0.49	0	0	0	0	0	0	0	0
6/18/2024 16:08	41901	REED_T1	2	6	4	0.25	0.3	0.05	0	0	0	0	0	0	0	0
6/18/2024 16:10	56501	ROCK_T2	5	5	0	0.92	0.6	-0.32	-1.18	-1.18	0	0	0	0	0	0
6/18/2024 16:10	56504	ROCK_T2	9	12	3	1.92	0.91	-1.01	0	0	0	0	0	0	0	0
6/18/2024 16:10	46001	BERW_T1	0	0	0	0	0	0	0.56	0.5	0	0	0	0	0	0
6/18/2024 16:10	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 16:11	11507	FREE_T2	415	423	8	1.5	1.14	-0.36	2.08	0.86	1	1	0	600	600	0
6/18/2024 16:12	46204	DANV_T2	121	124	3	1.35	0.45	-0.9	0	0	0	0	0	0	0	0
6/18/2024 16:12	46203	DANV_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/18/2024 16:12	46206	DANV_T2	66	80	14	0.65	0.64	-0.01	2.92	2.97	1	1	0	1200	1200	0
6/18/2024 16:12	46205	DANV_T2	8	0	-8	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/18/2024 16:13	63401	HONY_T1	0	0	0	0	0	0	-0.3	-0.36	1	1	0	600	600	0
6/18/2024 16:14	45502	DERR_T2	21	36	15	0.51	0.61	0.1	0	0	0	0	0	0	0	0
6/18/2024 16:14	45501	DERR_T2	22	13	-9	0.45	0.56	0.11	1.11	1.03	2	2	0	1800	1800	0
6/18/2024 16:15	52403	GRPA_T2	104	172	68	1.55	1.38	-0.17	0	0	0	0	0	0	0	0
6/18/2024 16:15	52404	GRPA_T2	10	15	5	0.41	0.45	0.04	0	0	0	0	0	0	0	0
6/18/2024 16:15	52401	GRPA_T2	19	47	28	0.39	0.41	0.02	0	0	0	0	0	0	0	0
6/18/2024 16:15	45501	DERR_T2	11	7	-4	0.48	0.5	0.02	1.11	1.03	2	2	0	1800	1800	0
6/18/2024 16:15	63401	HONY_T1	0	0	0	0	0	0	-0.3	-0.36	1	1	0	600	600	0
6/18/2024 16:15	52402	GRPA_T2	90	99	9	0.7	0.83	0.13	-0.4	-0.34	0	0	0	0	0	0
6/18/2024 16:15	45502	DERR_T2	35	17	-18	0.59	0.52	-0.07	0	0	0	0	0	0	0	0
6/18/2024 16:15	45801	HEGI_T1	0	1	1	0	0.5	0.5	0.03	0.03	1	1	0	900	900	0
6/18/2024 16:16	52004	LING_T2	2	0	-2	0.55	0	-0.55	0.37	0.35	0	0	0	0	0	0
6/18/2024 16:16	52404	GRPA_T2	10	15	5	0.41	0.45	0.04	0	0	0	0	0	0	0	0
6/18/2024 16:16	52403	GRPA_T2	104	172	68	1.55	1.38	-0.17	0	0	0	0	0	0	0	0
6/18/2024 16:16	52401	GRPA_T2	19	47	28	0.39	0.41	0.02	0	0	0	0	0	0	0	0
6/18/2024 16:16	63401	HONY_T1	0	0	0	0	0	0	-0.3	-0.36	1	1	0	600	600	0
6/18/2024 16:16	52002	LING_T2	59	133	74	0.49	0.52	0.03	0	0	0	0	0	0	0	0
6/18/2024 16:16	52402	GRPA_T2	90	99	9	0.7	0.83	0.13	-0.4	-0.34	0	0	0	0	0	0
6/18/2024 16:17	47403	PENS_T1	1	1	0	0.5	2	1.5	0	0	0	0	0	0	0	0
6/18/2024 16:17	47402	PENS_T1	3	4	1	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/18/2024 16:17	47401	PENS_T1	13	19	6	0.81	0.87	0.06	0.66	0.61	0	0	0	0	0	0
6/18/2024 16:19	47403	PENS_T1	1	1	0	0.5	2	1.5	0	0	0	0	0	0	0	0
6/18/2024 16:19	47402	PENS_T1	3	4	1	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/18/2024 16:19	47401	PENS_T1	13	19	6	0.81	0.87	0.06	0.66	0.61	0	0	0	0	0	0
6/18/2024 16:20	47401	PENS_T1	13	19	6	0.81	0.87	0.06	1.32	1.22	0	0	0	0	0	0
6/18/2024 16:20	47402	PENS_T1	3	4	1	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/18/2024 16:20	47403	PENS_T1	1	1	0	0.5	2	1.5	0	0	0	0	0	0	0	0
6/18/2024 16:21	47402	PENS_T1	3	4	1	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/18/2024 16:21	47403	PENS_T1	1	1	0	0.5	2	1.5	0	0	0	0	0	0	0	0
6/18/2024 16:21	47401	PENS_T1	13	19	6	0.81	0.87	0.06	0.61	0.55	0	0	0	0	0	0
6/18/2024 16:23	15001	BLMO_T1	26	76	50	0.43	0.45	0.02	0	0	0	0	0	0	0	0
6/18/2024 16:26	10903	COOP_T2	0	0	0	0	0	0	-1.1	-1.11	1	1	0	600	600	0
6/18/2024 16:26	10901	COOP_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/18/2024 16:28	46204	DANV_T2	124	70	-54	1.17	0.37	-0.8	0	0	0	0	0	0	0	0
6/18/2024 16:28	46203	DANV_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
6/18/2024 16:28	40101	HUNT_T2	387	463	76	0.83	0.58	-0.25	-0.99	-1.16	0	0	0	0	0	0
6/18/2024 16:28	46206	DANV_T2	77	74	-3	0.69	0.6	-0.09	2.92	3.05	1	1	0	1200	1200	0
6/18/2024 16:32	47403	PENS_T1	0	1	1	0	2	2	0	0	0	0	0	0	0	0
6/18/2024 16:32	55001	NEWP_T1	42	54	12	0.44	0.89	0.45	0.23	0.24	0	0	0	0	0	0
6/18/2024 16:32	47402	PENS_T1	0	5	5	0	0.43	0.43	0	0	0	0	0	0	0	0
6/18/2024 16:32	47401	PENS_T1	11	21	10	0.87	0.92	0.05	0.61	0.55	0	0	0	0	0	0
6/18/2024 16:33	55001	NEWP_T1	42	54	12	0.44	0.89	0.45	0.23	0.24	0	0	0	0	0	0
6/18/2024 16:35	64101	REFR_T1	3	3	0	0.33	0.23	-0.1	0.24	0.24	0	0	0	0	0	0
6/18/2024 16:35	55001	NEWP_T1	42	54	12	0.44	0.89	0.45	0.23	0.24	0	0	0	0	0	0
6/18/2024 16:37	47401	PENS_T1	11	21	10	0.87	0.92	0.05	0.55	0.55	0	0	0	0	0	0
6/18/2024 16:37	47402	PENS_T1	0	5	5	0	0.43	0.43	0	0	0	0	0	0	0	0
6/18/2024 16:37	47403	PENS_T1	0	1	1	0	2	2	0	0	0	0	0	0	0	0
6/18/2024 16:37	40101	HUNT_T2	421	249	-172	0.85	1.02	0.17	-1.16	-1.19	0	0	0	0	0	0
6/18/2024 16:39	64101	REFR_T1	3	3	0	0.33	0.23	-0.1	0.24	0.25	0	0	0	0	0	0
6/18/2024 16:42	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/18/2024 16:42	29402	BELT_T1	4	11	7	2.1	3.55	1.45	0	0	0	0	0	0	0	0
6/18/2024 16:42	45801	HEGI_T1	1	1	0	0.6	0	-0.6	0.07	0.03	1	1	0	900	900	0
6/18/2024 16:44	10801	OHHI_T1	211	219	8	2.03	1.82	-0.21	-0.67	-0.63	3	3	0	2100	2100	0
6/18/2024 16:45	45801	HEGI_T1	1	1	0	0.5	0	-0.5	0.07	0.03	1	1	0	900	900	0
6/18/2024 16:45	11502	FREE_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/18/2024 16:45	20601	GRWO_T2	270	263	-7	1.28	1.19	-0.09	0.55	0.56	0	0	0	0	0	0
6/18/2024 16:45	41801	GOCI_T2	1	6	5	0.5	0.2	-0.3	0	0	0	1	1	0	900	900
6/18/2024 16:45	11505	FREE_T1	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
6/18/2024 16:45	11504	FREE_T1	2	3	1	2.2	0.7	-1.5	-1	-0.93	2	2	0	2100	2100	0
6/18/2024 16:46	64201	KINZ_T1	7	8	1	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
6/18/2024 16:46	64203	KINZ_T1	2	2	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/18/2024 16:46	64204	KINZ_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/18/2024 16:46	41801	GOCI_T2	1	6	5	0.5	0.2	-0.3	0	0	0	1	1	0	900	900
6/18/2024 16:46	64202	KINZ_T1	0	4	4	0	0.3	0.3	0.92	0.94	0	0	0	0	0	0
6/18/2024 16:48	45802	HEGI_T2	14	95	81	1.58	0.96	-0.62	0.27	0.36	2	2	0	1200	1200	0
6/18/2024 16:49	60305	TWVA_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	2400	2400	0
6/18/2024 16:49	60301	TWVA_T2	5	8	3	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/18/2024 16:52	14404	SSLA_T1	1	2	1	1.7	1.8	0.1	0	0	0	0	0	0	0	0
6/18/2024 16:52	14403	SSLA_T1	8	14	6	0.85	0.66	-0.19	1.34	1.32	1	1	0	600	600	0
6/18/2024 16:52	14402	SSLA_T1	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
6/18/2024 16:52	14401	SSLA_T1	3	2	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/18/2024 16:53	14403	SSLA_T1	8	14	6	0.85	0.66	-0.19	1.34	1.32	1	1	0	600	600	0
6/18/2024 16:53	14404	SSLA_T1	1	2	1	1.7	1.8	0.1	0	0	0	0	0	0	0	0
6/18/2024 16:53	14401	SSLA_T1	3	2	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/18/2024 16:53	14402	SSLA_T1	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
6/18/2024 16:56	44801	EDAN_T2	5	16	11	0.74	0.49	-0.25	1.09	1.15	0	0	0	0	0	0
6/18/2024 17:01	58203	NEWV_T2	152	133	-19	1.96	1.27	-0.69	-0.66	-0.68	0	0	0	0	0	0
6/18/2024 17:01	61701	ELIZ_T1	1	1	0	1.1	1.3	0.2	1.61	1.64	0	0	0	0	0	0
6/18/2024 17:01	64201	KINZ_T1	8	2	-6	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
6/18/2024 17:01	64204	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/18/2024 17:01	64203	KINZ_T1	2	0	-2	0.75	0	-0.75	0	0	0	0	0	0	0	0
6/18/2024 17:01	61703	ELIZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 17:01	64202	KINZ_T1	3	4	1	0.43	0.6	0.17	0.94	1.92	0	0	0	0	0	0
6/18/2024 17:02	66503	SMAN_T2	7	23	16	1.01	0.69	-0.32	0	0	0	0	0	0	0	0
6/18/2024 17:02	60504	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 17:02	66504	SMAN_T2	29	52	23	0.41	0.43	0.02	0	0	0	0	0	0	0	0
6/18/2024 17:02	60502	NMAN_T2	0	0	0	0	0	0	0.36	0.32	0	0	0	0	0	0
6/18/2024 17:02	60501	NMAN_T2	3	3	0	4	4	0	0	0	0	0	0	0	0	0
6/18/2024 17:02	66505	SMAN_T2	3	4	1	0.63	0.37	-0.26	-0.03	-0.12	3	3	0	1700	1700	0
6/18/2024 17:03	44203	POIN_T2	34	77	43	0.42	0.56	0.14	0.16	0.11	2	2	0	2100	2100	0
6/18/2024 17:03	44202	POIN_T2	4	4	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/18/2024 17:04	40101	HUNT_T2	159	111	-48	1.06	1.03	-0.03	-1.19	-1.23	0	0	0	0	0	0
6/18/2024 17:04	47001	HUGH_T2	1	3	2	0.2	0.2	0	-0.58	-0.57	1	1	0	900	900	0
6/18/2024 17:04	44202	POIN_T2	4	4	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/18/2024 17:04	44203	POIN_T2	34	77	43	0.42	0.56	0.14	0.16	0.11	2	2	0	2100	2100	0
6/18/2024 17:04	47002	HUGH_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/18/2024 17:05	47002	HUGH_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/18/2024 17:05	44202	POIN_T2	4	4	0	0.3	0	-0.3	-0.93	-1.28	4	4	0	3600	3600	0
6/18/2024 17:05	47001	HUGH_T2	1	3	2	0.2	0.2	0	-0.58	-0.57	1	1	0	900	900	0
6/18/2024 17:05	44203	POIN_T2	34	77	43	0.42	0.56	0.14	0	0	0	0	0	0	0	0
6/18/2024 17:06	64101	REFR_T1	3	5	2	0.23	0.2	-0.03	0.24	0.23	0	0	0	0	0	0
6/18/2024 17:06	47001	HUGH_T2	1	3	2	0.2	0.2	0	-0.57	-0.56	1	1	0	900	900	0
6/18/2024 17:06	47002	HUGH_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/18/2024 17:07	67804	WLAN_T1	10	0	-10	1.16	1.04	-0.12	0	0	0	0	0	0	0	0
6/18/2024 17:07	67801	WLAN_T1	18	3	-15	0.22	0.4	0.18	-0.78	-0.85	0	0	0	0	0	0
6/18/2024 17:09	67602	WARW_T2	3	3	0	1.67	0.15	-1.52	0.63	0.53	2	2	0	1500	1500	0
6/18/2024 17:11	61703	ELIZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 17:11	61701	ELIZ_T1	1	1	0	1.1	1.3	0.2	1.64	1.67	0	0	0	0	0	0
6/18/2024 17:14	52404	GRPA_T2	9	6	-3	0.91	0.2	-0.71	0	0	0	0	0	0	0	0
6/18/2024 17:14	52401	GRPA_T2	83	56	-27	0.76	0.47	-0.29	0	0	0	0	0	0	0	0
6/18/2024 17:14	52403	GRPA_T2	89	75	-14	1.77	1.53	-0.24	-0.13	-0.19	0	0	0	0	0	0
6/18/2024 17:14	52402	GRPA_T2	121	97	-24	1.01	0.7	-0.31	0	0	0	0	0	0	0	0
6/18/2024 17:15	63402	HONY_T2	1	0	-1	5.6	0	-5.6	0	0	0	0	0	0	0	0
6/18/2024 17:15	63403	HONY_T2	52	20	-32	0.42	0.84	0.42	-1.33	-1.33	1	1	0	600	600	0
6/18/2024 17:21	56501	ROCK_T2	10	17	7	0.67	0.55	-0.12	-1.16	-1.12	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/18/2024 17:21	46903	MNTG_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
6/18/2024 17:21	56503	ROCK_T2	1	2	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/18/2024 17:21	56504	ROCK_T2	18	39	21	0.86	0.49	-0.37	0	0	0	0	0	0	0	0
6/18/2024 17:21	42201	SHEN_T2	0	0	0	0	0	0	0.29	0.3	1	1	0	600	600	0
6/18/2024 17:21	46901	MNTG_T2	0	2	2	0	0.1	0.1	0.1	0.19	1	1	0	1200	1200	0
6/18/2024 17:21	46902	MNTG_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/18/2024 17:24	42201	SHEN_T2	0	0	0	0	0	0	0.3	0.32	1	1	0	600	600	0
6/18/2024 17:25	42201	SHEN_T2	0	0	0	0	0	0	0.3	0.32	1	1	0	600	600	0
6/18/2024 17:26	61701	ELIZ_T1	1	1	0	1.3	1.2	-0.1	1.67	1.6	0	0	0	0	0	0
6/18/2024 17:26	61703	ELIZ_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/18/2024 17:27	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 17:27	40302	TAMA_T3	0	0	0	0	0	0	-2.19	-2.19	1	1	0	1200	1200	0
6/18/2024 17:31	12601	MACA_T1	16	13	-3	0.93	0.97	0.04	1.77	1.8	0	0	0	0	0	0
6/18/2024 17:31	12605	MACA_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 17:31	12606	MACA_T1	150	146	-4	1.71	1.93	0.22	0	0	0	0	0	0	0	0
6/18/2024 17:31	12602	MACA_T1	16	18	2	1.69	1.35	-0.34	0	0	0	0	0	0	0	0
6/18/2024 17:31	12603	MACA_T1	2	1	-1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/18/2024 17:34	66503	SMAN_T2	19	28	9	0.67	0.62	-0.05	0	0	0	0	0	0	0	0
6/18/2024 17:34	66504	SMAN_T2	52	61	9	0.58	0.45	-0.13	0.31	0.32	1	1	0	1200	1200	0
6/18/2024 17:36	57403	SPAN_T1	0	4	4	0	0.1	0.1	-0.01	0.05	0	0	0	0	0	0
6/18/2024 17:36	57401	SPAN_T1	1	8	7	0.1	0.68	0.58	0	0	0	0	0	0	0	0
6/18/2024 17:38	43304	WATS_T2	93	125	32	0.7	0.61	-0.09	-0.72	-0.74	1	1	0	600	600	0
6/18/2024 17:38	43301	WATS_T2	9	7	-2	0.27	0.5	0.23	0	0	0	0	0	0	0	0
6/18/2024 17:38	27205	YATE_T1	1	3	2	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
6/18/2024 17:38	27201	YATE_T1	10	12	2	1.7	1.3	-0.4	-0.21	-0.21	0	0	0	0	0	0
6/18/2024 17:39	43301	WATS_T2	9	7	-2	0.27	0.5	0.23	0	0	0	0	0	0	0	0
6/18/2024 17:39	41602	CLEV_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/18/2024 17:39	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/18/2024 17:39	43304	WATS_T2	93	125	32	0.7	0.61	-0.09	-0.72	-0.74	1	1	0	600	600	0
6/18/2024 17:42	43304	WATS_T2	93	125	32	0.7	0.61	-0.09	-0.72	-0.74	1	1	0	600	600	0
6/18/2024 17:42	43301	WATS_T2	9	7	-2	0.27	0.5	0.23	0	0	0	0	0	0	0	0
6/18/2024 17:45	62105	ELAN_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/18/2024 17:45	62102	ELAN_T1	0	0	0	0	0	0	0.2	0.15	0	0	0	0	0	0
6/18/2024 17:47	52402	GRPA_T2	92	73	-19	1.08	0.8	-0.28	0	0	0	0	0	0	0	0
6/18/2024 17:47	52404	GRPA_T2	3	29	26	0.6	0.6	0	0	0	0	0	0	0	0	0
6/18/2024 17:47	52401	GRPA_T2	74	87	13	0.69	0.79	0.1	0	0	0	0	0	0	0	0
6/18/2024 17:47	52403	GRPA_T2	85	138	53	1.54	1.3	-0.24	-0.16	-0.17	0	0	0	0	0	0
6/18/2024 17:50	46902	MNTG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/18/2024 17:50	46903	MNTG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/18/2024 17:50	46901	MNTG_T2	2	0	-2	0.1	0	-0.1	0.19	0.26	1	1	0	1200	1200	0
6/18/2024 17:51	57106	SPHI_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
6/18/2024 17:51	57104	SPHI_T2	2	1	-1	1.2	1.5	0.3	-1.47	-1.55	1	1	0	900	900	0
6/18/2024 17:51	57101	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/18/2024 17:53	56504	ROCK_T2	37	29	-8	0.54	0.33	-0.21	0	0	0	0	0	0	0	0
6/18/2024 17:53	56503	ROCK_T2	2	1	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/18/2024 17:53	56501	ROCK_T2	14	11	-3	0.88	0.46	-0.42	-1.71	-1.74	0	0	0	0	0	0
6/18/2024 17:54	64101	REFR_T1	3	3	0	0.5	0	-0.5	0.22	0.29	0	0	0	0	0	0
6/18/2024 17:54	56503	ROCK_T2	2	1	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/18/2024 17:54	56504	ROCK_T2	37	29	-8	0.54	0.33	-0.21	0	0	0	0	0	0	0	0
6/18/2024 17:54	56501	ROCK_T2	14	11	-3	0.88	0.46	-0.42	-1.71	-1.74	0	0	0	0	0	0
6/18/2024 17:57	63304	GREE_T1	0	0	0	0	0	0	-1.64	-1.65	0	0	0	0	0	0
6/18/2024 18:00	63304	GREE_T1	0	0	0	0	0	0	-1.64	-1.65	0	0	0	0	0	0
6/18/2024 18:03	55001	NEWP_T1	73	44	-29	0.71	0.54	-0.17	0.24	0.2	0	0	0	0	0	0
6/18/2024 18:03	55002	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/18/2024 18:05	14705	TREX_T1	12	12	0	0.8	0.44	-0.36	1.67	1.61	0	0	0	0	0	0
6/18/2024 18:06	58705	ROSE_T2	2	3	1	0.3	0.53	0.23	0	0	0	0	0	0	0	0
6/18/2024 18:06	58702	ROSE_T2	4	4	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/18/2024 18:06	58701	ROSE_T2	16	13	-3	0.88	0.43	-0.45	-0.43	-0.42	1	1	0	600	600	0
6/18/2024 18:06	58706	ROSE_T2	6	7	1	1	0.93	-0.07	0	0	0	0	0	0	0	0
6/18/2024 18:09	43304	WATS_T2	71	76	5	0.67	0.81	0.14	-0.78	-0.84	1	1	0	600	600	0
6/18/2024 18:09	46001	BERW_T1	0	1	1	0	0	0	0.3	0.23	0	0	0	0	0	0
6/18/2024 18:09	43301	WATS_T2	5	4	-1	0.54	0.2	-0.34	0	0	0	0	0	0	0	0
6/18/2024 18:10	46001	BERW_T1	0	1	1	0	0	0	0.3	0.23	0	0	0	0	0	0
6/18/2024 18:11	46001	BERW_T1	0	1	1	0	0	0	0.6	0.46	0	0	0	0	0	0
6/18/2024 18:12	11104	EGYP_T1	6	6	0	1.15	0.62	-0.53	0	0	0	0	0	0	0	0
6/18/2024 18:12	11102	EGYP_T1	35	23	-12	1.01	0.97	-0.04	0	0	0	0	0	0	0	0
6/18/2024 18:12	11103	EGYP_T1	0	2	2	0	0	0	-0.18	-0.22	0	0	0	0	0	0
6/18/2024 18:14	11104	EGYP_T1	6	6	0	1.15	0.62	-0.53	0	0	0	0	0	0	0	0
6/18/2024 18:14	11103	EGYP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 18:14	11102	EGYP_T1	35	23	-12	1.01	0.97	-0.04	1.74	1.66	0	0	0	0	0	0
6/18/2024 18:15	11102	EGYP_T1	21	20	-1	1.03	1.04	0.01	0	0	0	0	0	0	0	0
6/18/2024 18:15	11104	EGYP_T1	6	6	0	1.35	0.62	-0.73	0	0	0	0	0	0	0	0
6/18/2024 18:15	11103	EGYP_T1	2	0	-2	0.55	0	-0.55	-0.18	-0.22	0	0	0	0	0	0
6/18/2024 18:17	23402	HONE_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/18/2024 18:17	23401	HONE_T2	212	217	5	0.94	0.51	-0.43	0.91	0.66	0	0	0	0	0	0
6/18/2024 18:17	56504	ROCK_T2	13	7	-6	0.33	0	-0.33	0	0	0	0	0	0	0	0
6/18/2024 18:17	56501	ROCK_T2	5	4	-1	0.46	0.23	-0.23	-1.74	-1.83	0	0	0	0	0	0
6/18/2024 18:17	64202	KINZ_T1	11	6	-5	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
6/18/2024 18:17	64204	KINZ_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/18/2024 18:17	64203	KINZ_T1	0	0	0	0	0	0	-1.12	-1.11	3	3	0	2100	2100	0
6/18/2024 18:17	64201	KINZ_T1	58	34	-24	0.44	0.46	0.02	0	0	0	0	0	0	0	0
6/18/2024 18:18	23401	HONE_T2	212	217	5	0.94	0.51	-0.43	0.91	0.66	0	0	0	0	0	0
6/18/2024 18:18	23402	HONE_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/18/2024 18:19	57103	SPHI_T2	0	0	0	0	0	0	0.02	-0.01	1	1	0	600	600	0
6/18/2024 18:19	57104	SPHI_T2	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
6/18/2024 18:19	57101	SPHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/18/2024 18:19	57106	SPHI_T2	3	2	-1	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
6/18/2024 18:20	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 18:22	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 18:22	27201	YATE_T1	12	10	-2	0.89	1.21	0.32	-0.23	-0.26	0	0	0	0	0	0
6/18/2024 18:22	27205	YATE_T1	1	2	1	1	0.9	-0.1	0	0	0	0	0	0	0	0
6/18/2024 18:23	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 18:24	13903	SEID_T1	65	76	11	1.18	1.12	-0.06	0	0	0	0	0	0	0	0
6/18/2024 18:24	13904	SEID_T1	33	30	-3	0.87	0.79	-0.08	-0.8	-0.76	0	0	0	0	0	0
6/18/2024 18:26	40502	CRES_T2	18	21	3	0.38	0.37	-0.01	3.22	2.87	0	0	0	0	0	0
6/18/2024 18:26	40501	CRES_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/18/2024 18:27	40501	CRES_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/18/2024 18:27	40502	CRES_T2	18	21	3	0.38	0.37	-0.01	0.46	0.41	0	0	0	0	0	0
6/18/2024 18:28	40501	CRES_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/18/2024 18:28	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 18:28	40502	CRES_T2	18	21	3	0.38	0.37	-0.01	2.76	2.46	0	0	0	0	0	0
6/18/2024 18:29	64202	KINZ_T1	11	6	-5	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
6/18/2024 18:29	40502	CRES_T2	18	21	3	0.38	0.37	-0.01	3.68	3.28	0	0	0	0	0	0
6/18/2024 18:29	64201	KINZ_T1	58	34	-24	0.44	0.46	0.02	0.26	0.16	4	4	0	2100	2100	0
6/18/2024 18:29	40501	CRES_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/18/2024 18:29	64204	KINZ_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/18/2024 18:30	40502	CRES_T2	17	16	-1	0.39	0.47	0.08	1.84	1.64	0	0	0	0	0	0
6/18/2024 18:30	40501	CRES_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
6/18/2024 18:32	40501	CRES_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
6/18/2024 18:32	40502	CRES_T2	17	16	-1	0.39	0.47	0.08	0.46	0.41	0	0	0	0	0	0
6/18/2024 18:33	40501	CRES_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
6/18/2024 18:33	40502	CRES_T2	17	16	-1	0.39	0.47	0.08	0.46	0.41	0	0	0	0	0	0
6/18/2024 18:39	51002	NHAR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/18/2024 18:39	51003	NHAR_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 18:39	51004	NHAR_T1	7	9	2	1.11	1.07	-0.04	-0.98	-0.96	0	0	0	0	0	0
6/18/2024 18:40	51003	NHAR_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 18:40	51002	NHAR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/18/2024 18:40	61304	EARL_T1	0	0	0	0	0	0	-0.15	-0.16	1	1	0	600	600	0
6/18/2024 18:40	61303	EARL_T1	7	8	1	0.69	0.38	-0.31	0	0	0	0	0	0	0	0
6/18/2024 18:40	61302	EARL_T1	2	2	0	2.6	3.1	0.5	0	0	0	0	0	0	0	0
6/18/2024 18:40	51004	NHAR_T1	7	9	2	1.11	1.07	-0.04	-0.98	-0.96	0	0	0	0	0	0
6/18/2024 18:41	61302	EARL_T1	2	2	0	2.6	3.1	0.5	0	0	0	0	0	0	0	0
6/18/2024 18:41	61303	EARL_T1	7	8	1	0.69	0.38	-0.31	0	0	0	0	0	0	0	0
6/18/2024 18:41	61304	EARL_T1	0	0	0	0	0	0	-0.15	-0.16	1	1	0	600	600	0
6/18/2024 18:42	61303	EARL_T1	7	8	1	0.69	0.38	-0.31	0	0	0	0	0	0	0	0
6/18/2024 18:42	61304	EARL_T1	0	0	0	0	0	0	-0.15	-0.16	1	1	0	600	600	0
6/18/2024 18:42	61302	EARL_T1	2	2	0	2.6	3.1	0.5	0	0	0	0	0	0	0	0
6/18/2024 18:43	61302	EARL_T1	2	2	0	2.6	3.1	0.5	0	0	0	0	0	0	0	0
6/18/2024 18:43	61304	EARL_T1	0	0	0	0	0	0	-0.15	-0.16	1	1	0	600	600	0
6/18/2024 18:43	61303	EARL_T1	7	8	1	0.69	0.38	-0.31	0	0	0	0	0	0	0	0
6/18/2024 18:46	52004	LING_T2	1	0	-1	0.4	0	-0.4	0.41	0.39	0	0	0	0	0	0
6/18/2024 18:46	52006	LING_T2	4	0	-4	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/18/2024 18:51	66505	SMAN_T2	4	4	0	0.78	0.73	-0.05	0	0	0	0	0	0	0	0
6/18/2024 18:51	66503	SMAN_T2	10	5	-5	0.74	0.44	-0.3	0	0	0	0	0	0	0	0
6/18/2024 18:51	66504	SMAN_T2	13	2	-11	0.4	0.8	0.4	0.16	0.11	1	1	0	1200	1200	0
6/18/2024 18:52	66503	SMAN_T2	10	5	-5	0.74	0.44	-0.3	0	0	0	0	0	0	0	0
6/18/2024 18:52	66505	SMAN_T2	4	4	0	0.78	0.73	-0.05	0	0	0	0	0	0	0	0
6/18/2024 18:52	66504	SMAN_T2	13	2	-11	0.4	0.8	0.4	0.16	0.11	1	1	0	1200	1200	0
6/18/2024 19:02	55003	NEWP_T2	0	0	0	0	0	0	-0.84	-0.88	1	1	0	600	600	0
6/18/2024 19:04	13302	ORVI_T2	0	0	0	0	0	0	1.14	1.07	0	0	0	0	0	0
6/18/2024 19:07	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 19:09	44905	SCOT_T1	4	2	-2	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
6/18/2024 19:10	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 19:11	11104	EGYP_T1	9	7	-2	0.69	0.4	-0.29	0	0	0	0	0	0	0	0
6/18/2024 19:11	11101	EGYP_T1	0	0	0	0	0	0	0	-0.01	1	1	0	1200	1200	0
6/18/2024 19:11	11102	EGYP_T1	15	17	2	1	0.81	-0.19	0	0	0	0	0	0	0	0
6/18/2024 19:14	40101	HUNT_T2	189	153	-36	0.89	1.09	0.2	-0.97	-1.01	0	0	0	0	0	0
6/18/2024 19:22	41901	REED_T1	4	9	5	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
6/18/2024 19:22	41902	REED_T1	122	139	17	0.62	0.61	-0.01	0	0	0	0	0	0	0	0
6/18/2024 19:22	41903	REED_T1	0	0	0	0	0	0	0.61	0.59	1	1	0	1200	1200	0
6/18/2024 19:23	16201	POFA_T2	7	0	-7	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/18/2024 19:28	22002	BOHE_T1	0	0	0	0	0	0	0.82	0.77	0	0	0	0	0	0
6/18/2024 19:28	22003	BOHE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/18/2024 19:36	44902	SCOT_T2	129	128	-1	0.54	0.45	-0.09	0	0	0	0	0	0	0	0
6/18/2024 19:36	44901	SCOT_T2	0	0	0	0	0	0	0.46	0.54	0	0	0	0	0	0
6/18/2024 19:44	63401	HONY_T1	0	0	0	0	0	0	0.14	0.13	1	1	0	600	600	0
6/18/2024 19:48	22701	MINO_T1	0	0	0	0	0	0	-0.08	-0.06	1	1	0	600	600	0
6/18/2024 19:55	14705	TREX_T1	0	0	0	0	0	0	0.9	0.93	0	0	0	0	0	0
6/18/2024 19:56	20402	ASHF_T2	151	84	-67	0.69	0.68	-0.01	0	0	0	0	0	0	0	0
6/18/2024 19:56	20403	ASHF_T2	1	1	0	1.2	0	-1.2	0.04	0.02	0	0	0	0	0	0
6/18/2024 19:56	20401	ASHF_T2	2	2	0	0.75	0.3	-0.45	0	0	0	0	0	0	0	0
6/18/2024 20:01	61701	ELIZ_T1	1	1	0	2.4	3	0.6	1.47	1.44	0	0	0	0	0	0
6/18/2024 20:23	44601	SALE_T2	0	1	1	0	0	0	0.28	0.25	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/18/2024 20:25	44601	SALE_T2	0	1	1	0	0	0	0.28	0.25	0	0	0	0	0	0
6/18/2024 20:41	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 20:45	61102	BERK_T5	0	0	0	0	0	0	-0.03	0.88	2	1	-1	1200	300	-900
6/18/2024 20:52	22701	MINO_T1	0	0	0	0	0	0	-0.19	-0.29	1	1	0	600	600	0
6/18/2024 21:09	56501	ROCK_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/18/2024 21:09	56504	ROCK_T2	7	2	-5	0.6	0.55	-0.05	-0.56	-0.52	0	0	0	0	0	0
6/18/2024 21:10	16302	ALPA_T2	1	1	0	0.5	1	0.5	0.18	0.14	0	0	0	0	0	0
6/18/2024 21:11	64801	MONE_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
6/18/2024 21:13	16302	ALPA_T2	1	1	0	0.5	1	0.5	0.09	0.07	0	0	0	0	0	0
6/18/2024 21:15	16302	ALPA_T2	1	1	0	1	0.9	-0.1	0.09	0.07	0	0	0	0	0	0
6/18/2024 21:34	12304	LANA_T2	3	4	1	1.03	0.75	-0.28	0	0	0	0	0	0	0	0
6/18/2024 21:34	12301	LANA_T2	0	0	0	0	0	0	-0.86	-0.72	1	1	0	1200	1200	0
6/18/2024 21:34	12305	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 21:43	15703	TANN_T2	1	1	0	5.9	5.5	-0.4	0	0	0	0	0	0	0	0
6/18/2024 21:43	15702	TANN_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
6/18/2024 21:46	15703	TANN_T2	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
6/18/2024 21:46	15702	TANN_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
6/18/2024 21:47	15703	TANN_T2	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
6/18/2024 21:47	15702	TANN_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
6/18/2024 21:51	58401	MORO_T1	1	0	-1	0.6	0	-0.6	-1.78	-1.83	2	2	0	1200	1200	0
6/18/2024 21:53	58401	MORO_T1	1	0	-1	0.6	0	-0.6	-3.66	-3.66	4	4	0	2400	2400	0
6/18/2024 22:10	61102	BERK_T5	0	0	0	0	0	0	0.32	0.37	1	1	0	300	300	0
6/18/2024 22:15	61701	ELIZ_T1	1	1	0	3.7	4	0.3	0.97	1.02	0	0	0	0	0	0
6/18/2024 22:19	21206	ECAR_T2	18	14	-4	0.93	1.52	0.59	0.51	0.48	0	0	0	0	0	0
6/18/2024 22:19	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:23	61701	ELIZ_T1	1	1	0	3.7	4	0.3	1.02	0.93	0	0	0	0	0	0
6/18/2024 22:24	47101	MARL_T1	57	47	-10	1.91	0.82	-1.09	-1.61	-1.78	1	1	0	600	600	0
6/18/2024 22:24	25601	ARRO_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
6/18/2024 22:24	54201	PENN_T1	6	23	17	0.78	0.47	-0.31	-1.54	-1.53	0	0	0	0	0	0
6/18/2024 22:24	47104	MARL_T1	17	21	4	0.34	0.39	0.05	0	0	0	0	0	0	0	0
6/18/2024 22:24	54203	PENN_T1	5	15	10	0.98	0.49	-0.49	0	0	0	0	0	0	0	0
6/18/2024 22:25	61702	ELIZ_T2	0	0	0	0	0	0	-2.03	-1.39	2	2	0	1500	1500	0
6/18/2024 22:26	40501	CRES_T2	73	110	37	0.49	0.65	0.16	0	0	0	0	0	0	0	0
6/18/2024 22:26	40502	CRES_T2	42	53	11	0.95	1.05	0.1	-0.08	-0.13	0	0	0	0	0	0
6/18/2024 22:26	24902	WHHA_T1	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
6/18/2024 22:26	64302	LINC_T2	1	1	0	0.6	1.1	0.5	1.53	1.55	0	0	0	0	0	0
6/18/2024 22:26	64304	LINC_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:27	52002	LING_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:27	52004	LING_T2	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
6/18/2024 22:27	16201	POPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:28	12402	MILF_T1	15	17	2	0.52	0.4	-0.12	0.85	0.81	0	0	0	0	0	0
6/18/2024 22:28	15601	NSTR_T2	2	3	1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
6/18/2024 22:28	20401	ASHF_T2	3	1	-2	0.87	0	-0.87	0.34	0.3	0	0	0	0	0	0
6/18/2024 22:28	17002	RIRO_T2	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
6/18/2024 22:28	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/18/2024 22:28	56802	BENV_T2	3	3	0	1.27	0.73	-0.54	-0.75	-0.85	0	0	0	0	0	0
6/18/2024 22:28	20402	ASHF_T2	7	0	-7	0.31	0	-0.31	0	0	0	0	0	0	0	0
6/18/2024 22:28	29402	BELT_T1	1	1	0	8.6	9.1	0.5	0	0	0	0	0	0	0	0
6/18/2024 22:28	15603	NSTR_T2	0	0	0	0	0	0	-0.3	-0.33	0	0	0	0	0	0
6/18/2024 22:29	29402	BELT_T1	1	1	0	8.6	9.1	0.5	0	0	0	0	0	0	0	0
6/18/2024 22:29	13503	MCMI_T2	27	10	-17	0.23	0.12	-0.11	-0.61	-0.63	0	0	0	0	0	0
6/18/2024 22:29	65401	MARI_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:29	48303	ORWI_T2	1	22	21	0	0.12	0.12	0	0	0	0	0	0	0	0
6/18/2024 22:29	11101	EGYP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/18/2024 22:29	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:29	40101	HUNT_T2	33	18	-15	0.57	0.3	-0.27	-1.07	-1.11	0	0	0	0	0	0
6/18/2024 22:29	48302	ORWI_T2	81	125	44	0.37	0.48	0.11	0.45	0.43	0	0	0	0	0	0
6/18/2024 22:29	11104	EGYP_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/18/2024 22:29	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:29	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/18/2024 22:29	57505	LAWN_T3	0	0	0	0	0	0	0.27	0.17	0	0	0	0	0	0
6/18/2024 22:29	11103	EGYP_T1	0	0	0	0	0	0	0.83	0.78	0	0	0	0	0	0
6/18/2024 22:30	64204	KINZ_T1	2	1	-1	0.5	1	0.5	0	0	0	0	0	0	0	0
6/18/2024 22:30	66504	SMAN_T2	0	0	0	0	0	0	-1.1	-1.2	2	2	0	2400	2400	0
6/18/2024 22:30	66505	SMAN_T2	1	0	-1	4.7	0	-4.7	0	0	0	0	0	0	0	0
6/18/2024 22:30	67605	WARW_T1	0	0	0	0	0	0	-0.84	-0.91	0	0	0	0	0	0
6/18/2024 22:30	47401	PENS_T1	0	0	0	0	0	0	0.34	0.3	0	0	0	0	0	0
6/18/2024 22:30	42601	TUSC_T1	0	0	0	0	0	0	-0.92	-1.02	2	2	0	1800	1800	0
6/18/2024 22:30	44901	SCOT_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
6/18/2024 22:30	40501	CRES_T2	103	111	8	0.58	0.66	0.08	0	0	0	0	0	0	0	0
6/18/2024 22:30	11104	EGYP_T1	0	0	0	0	0	0	0	0.84	0	0	0	0	0	0
6/18/2024 22:30	10805	CHHI_T2	1	7	6	8.7	4.55	-4.15	0	0	1	1	0	600	600	0
6/18/2024 22:30	20601	GRWO_T2	0	0	0	0	0	0	0.12	0.07	0	0	0	0	0	0
6/18/2024 22:30	47101	MARL_T1	44	43	-1	1.42	0.78	-0.64	-1.61	-1.78	1	1	0	600	600	0
6/18/2024 22:30	63403	HONY_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
6/18/2024 22:30	11102	EGYP_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/18/2024 22:30	10801	CHHI_T1	0	0	0	0	0	0	0	0	3	3	0	2100	2100	0
6/18/2024 22:30	55101	WERT_T1	0	0	0	0	0	0	-2.17	-2.19	4	4	0	3300	3300	0
6/18/2024 22:30	11101	EGYP_T1	1	1	0	0.3	1.8	1.5	0	0	0	0	0	0	0	0
6/18/2024 22:30	40502	CRES_T2	45	53	8	1.08	1.08	0	-0.16	-0.26	0	0	0	0	0	0
6/18/2024 22:30	63402	HONY_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
6/18/2024 22:30	47104	MARL_T1	21	15	-6	0.6	0.17	-0.43	0	0	0	0	0	0	0	0
6/18/2024 22:30	64201	KINZ_T1	4	1	-3	0.43	1	0.57	-0.38	-0.11	3	2	-1	1500	1200	-300
6/18/2024 22:30	55103	WERT_T1	1	1	0	4.5	0.6	-3.9	0	0	0	0	0	0	0	0
6/18/2024 22:31	16101	BING_T2	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/18/2024 22:31	51402	LYKE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/18/2024 22:31	56504	ROCK_T2	0	0	0	0	0	0	-0.75	-0.8	0	0	0	0	0	0
6/18/2024 22:31	20601	GRWO_T2	0	0	0	0	0	0	0.12	0.07	0	0	0	0	0	0
6/18/2024 22:31	60502	NMAN_T2	0	0	0	0	0	0	0.28	0.24	0	0	0	0	0	0
6/18/2024 22:31	47104	MARL_T1	21	15	-6	0.6	0.17	-0.43	0	0	0	0	0	0	0	0
6/18/2024 22:31	64904	MILL_T1	0	0	0	0	0	0	0.5	0.39	0	0	0	0	0	0
6/18/2024 22:31	16102	BING_T2	2	7	5	0.1	0.14	0.04	-0.31	-0.4	1	1	0	1200	1200	0
6/18/2024 22:31	46203	DANV_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/18/2024 22:31	51401	LYKE_T1	0	0	0	0	0	0	0.44	0.49	0	0	0	0	0	0
6/18/2024 22:31	40501	CRES_T2	103	111	8	0.58	0.66	0.08	0	0	0	0	0	0	0	0
6/18/2024 22:31	22905	HARW_T1	1	3	2	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/18/2024 22:31	56501	ROCK_T2	1	6	5	9.8	1.57	-8.23	0	0	0	0	0	0	0	0
6/18/2024 22:31	11102	EGYP_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/18/2024 22:31	60501	NMAN_T2	3	3	0	4.47	4.77	0.3	0	0	0	0	0	0	0	0
6/18/2024 22:31	60305	TWVA_T2	0	0	0	0	0	0	-1.15	-0.67	2	2	0	2400	2400	0
6/18/2024 22:31	40502	CRES_T2	45	53	8	1.08	1.08	0	-0.32	-0.52	0	0	0	0	0	0
6/18/2024 22:31	22903	HARW_T1	21	21	0	0.96	0.52	-0.44	0	0	0	0	0	0	0	0
6/18/2024 22:31	11903	ETEX_T1	0	0	0	0	0	0	1.08	1.03	0	0	0	0	0	0
6/18/2024 22:31	48303	ORWI_T2	9	22	13	0.1	0.12	0.02	0	0	0	0	0	0	0	0
6/18/2024 22:31	11101	EGYP_T1	1	1	0	0.3	1.8	1.5	0.11	0.04	1	1	0	1200	1200	0
6/18/2024 22:31	48302	ORWI_T2	119	120	1	0.39	0.48	0.09	0.45	0.43	0	0	0	0	0	0
6/18/2024 22:31	57602	RUTH_T2	0	0	0	0	0	0	-1.05	-1.1	0	0	0	0	0	0
6/18/2024 22:31	22003	BOHE_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/18/2024 22:31	13503	MCMI_T2	9	9	0	0.1	0.12	0.02	-0.61	-0.63	0	0	0	0	0	0
6/18/2024 22:31	22901	HARW_T1	0	0	0	0	0	0	-0.26	-0.26	1	1	0	1200	1200	0
6/18/2024 22:31	22002	BOHE_T1	0	0	0	0	0	0	0.64	0.57	0	0	0	0	0	0
6/18/2024 22:31	47101	MARL_T1	44	43	-1	1.42	0.78	-0.64	-1.61	-1.78	1	1	0	600	600	0
6/18/2024 22:31	46206	DANV_T2	3	1	-2	0.63	0.9	0.27	2.85	2.83	1	1	0	1200	1200	0
6/18/2024 22:31	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/18/2024 22:31	20403	ASHF_T2	0	0	0	0	0	0	0.91	0.86	0	0	0	0	0	0
6/18/2024 22:31	52004	LING_T2	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
6/18/2024 22:31	61102	BERK_T5	0	0	0	0	0	0	0.37	0.15	1	1	0	300	300	0
6/18/2024 22:31	10805	CHHI_T2	1	7	6	8.7	4.55	-4.15	0	0	1	1	0	600	600	0
6/18/2024 22:31	52002	LING_T2	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/18/2024 22:32	66505	SMAN_T2	1	0	-1	4.7	0	-4.7	0	0	0	0	0	0	0	0
6/18/2024 22:32	40501	CRES_T2	103	111	8	0.58	0.66	0.08	0	0	0	0	0	0	0	0
6/18/2024 22:32	14705	TREX_T1	0	0	0	0	0	0	1.28	1.25	0	0	0	0	0	0
6/18/2024 22:32	27201	YATE_T1	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
6/18/2024 22:32	11103	EGYP_T1	0	0	0	0	0	0	0.83	0.78	0	0	0	0	0	0
6/18/2024 22:32	11102	EGYP_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/18/2024 22:32	11101	EGYP_T1	1	1	0	0.3	1.8	1.5	0	0	0	0	0	0	0	0
6/18/2024 22:32	47101	MARL_T1	44	43	-1	1.42	0.78	-0.64	-1.61	-1.78	1	1	0	600	600	0
6/18/2024 22:32	40502	CRES_T2	45	53	8	1.08	1.08	0	-0.08	-0.13	0	0	0	0	0	0
6/18/2024 22:32	61102	BERK_T5	0	0	0	0	0	0	0.75	0.31	2	2	0	600	600	0
6/18/2024 22:32	67602	WARW_T2	0	0	0	0	0	0	0.17	0.16	2	2	0	1500	1500	0
6/18/2024 22:32	66504	SMAN_T2	0	0	0	0	0	0	-0.55	-0.6	1	1	0	1200	1200	0
6/18/2024 22:32	47104	MARL_T1	21	15	-6	0.6	0.17	-0.43	0	0	0	0	0	0	0	0
6/18/2024 22:32	67603	WARW_T1	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
6/18/2024 22:32	12701	MACU_T1	0	0	0	0	0	0	-0.83	-0.81	1	1	0	1200	1200	0
6/18/2024 22:33	65001	NEFF_T2	0	0	0	0	0	0	-0.19	-0.18	1	1	0	1200	1200	0
6/18/2024 22:33	64101	RERR_T1	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
6/18/2024 22:33	14705	TREX_T1	0	0	0	0	0	0	1.28	1.25	0	0	0	0	0	0
6/18/2024 22:33	10805	CHHI_T2	1	7	6	8.7	4.55	-4.15	0	0	1	1	0	600	600	0
6/18/2024 22:33	24902	WHHA_T1	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
6/18/2024 22:33	57401	SPAN_T1	1	2	1	0.4	0	-0.4	-0.47	-0.34	1	1	0	600	600	0
6/18/2024 22:33	60501	NMAN_T2	3	3	0	4.47	4.77	0.3	0	0	0	0	0	0	0	0
6/18/2024 22:33	61102	BERK_T5	0	0	0	0	0	0	0.37	0.15	1	1	0	300	300	0
6/18/2024 22:33	60502	NMAN_T2	0	0	0	0	0	0	0.28	0.24	0	0	0	0	0	0
6/18/2024 22:33	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
6/18/2024 22:34	53102	WTWN_T1	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
6/18/2024 22:34	56501	ROCK_T2	1	6	5	9.8	1.57	-8.23	-1.61	-1.68	0	0	0	0	0	0
6/18/2024 22:34	14403	SSLA_T1	3	3	0	0.43	0	-0.43	1.27	1.18	0	0	0	0	0	0
6/18/2024 22:34	46302	ROHR_T1	2	2	0	2.25	2.3	0.05	0.43	0.42	0	0	0	0	0	0
6/18/2024 22:34	40502	CRES_T2	45	53	8	1.08	1.08	0	-0.08	-0.13	0	0	0	0	0	0
6/18/2024 22:34	40101	HUNT_T2	18	4	-14	0.68	0	-0.68	-1.07	-1.11	0	0	0	0	0	0
6/18/2024 22:34	11507	FREE_T2	10	9	-1	0.79	0.78	-0.01	0.88	0.74	1	1	0	600	600	0
6/18/2024 22:34	58701	ROSE_T2	0	0	0	0	0	0	-0.74	-0.79	1	1	0	600	600	0
6/18/2024 22:34	61506	EPET_T2	0	0	0	0	0	0	-0.65	-0.56	1	1	0	900	900	0
6/18/2024 22:34	49804	UNIV_T1	1	1	0	2	1	-1	0	0	0	0	0	0	0	0
6/18/2024 22:34	14404	SSLA_T1	3	1	-2	3.4	3.4	0	0	0	0	0	0	0	0	0
6/18/2024 22:34	56802	BENV_T2	3	3	0	1.3	0	-1.3	-0.75	-0.85	0	0	0	0	0	0
6/18/2024 22:34	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:34	53501	EVIL_T2	1	1	0	0.8	0.8	0	-0.91	-0.89	3	3	0	1800	1800	0
6/18/2024 22:34	52002	LING_T2	2	1	-1	0.1	0	-0.1	0.77	0.68	0	0	0	0	0	0
6/18/2024 22:34	49803	UNIV_T1	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
6/18/2024 22:34	52004	LING_T2	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
6/18/2024 22:34	58705	ROSE_T2	5	5	0	0.46	0.84	0.38	0	0	0	0	0	0	0	0
6/18/2024 22:34	65401	MARI_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/18/2024 22:34	40501	CRES_T2	103	111	8	0.58	0.66	0.08	0	0	0	0	0	0	0	0
6/18/2024 22:34	58706	ROSE_T2	1	1	0	1.9	0.6	-1.3	0	0	0	0	0	0	0	0
6/18/2024 22:34	42601	TUSC_T1	0	0	0	0	0	0	-0.92	-1.02	2	2	0	1800	1800	0
6/18/2024 22:34	46301	ROHR_T1	151	155	4	0.32	0.34	0.02	0	0	0	0	0	0	0	0
6/18/2024 22:34	61501	EPET_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
6/18/2024 22:34	56504	ROCK_T2	0	0	0	0	0	0	-1.5	-1.6	0	0	0	0	0	0
6/18/2024 22:35	12305	LANA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/18/2024 22:35	23001	SAJO_T1	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
6/18/2024 22:35	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/18/2024 22:35	12304	LANA_T2	1	3	2	2.4	0.5	-1.9	0	0	0	0	0	0	0	0
6/18/2024 22:35	56803	BENV_T1	3	4	1	1.43	2.35	0.92	0	0	0	0	0	0	0	0
6/18/2024 22:35	15001	BLMO_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/18/2024 22:35	56501	ROCK_T2	1	6	5	9.8	1.57	-8.23	0	0	0	0	0	0	0	0
6/18/2024 22:35	20403	ASHF_T2	0	0	0	0	0	0	0.91	0.86	0	0	0	0	0	0
6/18/2024 22:35	45302	WBER_T2	0	0	0	0	0	0	1.57	1.52	0	0	0	0	0	0
6/18/2024 22:35	67602	WARW_T2	0	0	0	0	0	0	0.17	0.16	2	2	0	1500	1500	0
6/18/2024 22:35	67605	WARW_T1	0	0	0	0	0	0	-0.84	-0.91	0	0	0	0	0	0
6/18/2024 22:35	49803	UNIV_T1	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
6/18/2024 22:35	49804	UNIV_T1	1	1	0	2	1	-1	0	0	0	0	0	0	0	0
6/18/2024 22:35	64101	REFR_T1	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
6/18/2024 22:35	40501	CRES_T2	103	111	8	0.58	0.66	0.08	0	0	0	0	0	0	0	0
6/18/2024 22:35	56504	ROCK_T2	0	0	0	0	0	0	-0.75	-0.8	0	0	0	0	0	0
6/18/2024 22:35	45303	WBER_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/18/2024 22:35	57401	SPAN_T1	1	2	1	0.4	0	-0.4	-0.94	-0.68	2	2	0	1200	1200	0
6/18/2024 22:35	40101	HUNT_T2	18	4	-14	0.68	0	-0.68	-1.07	-1.11	0	0	0	0	0	0
6/18/2024 22:35	44905	SCOT_T1	3	2	-1	1.43	0.1	-1.33	0	0	0	0	0	0	0	0
6/18/2024 22:35	12302	LANA_T2	0	0	0	0	0	0	-1.91	-2.03	3	3	0	2700	2700	0
6/18/2024 22:35	56801	BENV_T1	10	11	1	0.65	0.73	0.08	-0.72	-0.76	2	2	0	1200	1200	0
6/18/2024 22:35	40502	CRES_T2	45	53	8	1.08	1.08	0	-0.24	-0.39	0	0	0	0	0	0
6/18/2024 22:35	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.3	2	2	0	1800	1800	0
6/18/2024 22:36	41901	REED_T1	4	4	0	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
6/18/2024 22:36	51002	NHAR_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/18/2024 22:36	64204	KINZ_T1	2	1	-1	0.5	1	0.5	0	0	0	0	0	0	0	0
6/18/2024 22:36	20403	ASHF_T2	0	0	0	0	0	0	0.91	0.86	0	0	0	0	0	0
6/18/2024 22:36	45501	DERR_T2	0	0	0	0	0	0	0.17	0.26	2	2	0	1800	1800	0
6/18/2024 22:36	10801	CHHI_T1	0	0	0	0	0	0	0	0	3	3	0	2100	2100	0
6/18/2024 22:36	56803	BENV_T1	3	4	1	1.43	2.35	0.92	0	0	0	0	0	0	0	0
6/18/2024 22:36	61701	ELIZ_T1	1	1	0	4	4.1	0.1	0.93	1.05	0	0	0	0	0	0
6/18/2024 22:36	58803	COCO_T1	1	1	0	1.1	0.8	-0.3	-0.93	-0.87	1	1	0	600	600	0
6/18/2024 22:36	24105	EHAZ_T1	4	4	0	5.75	5.38	-0.37	0	0	0	0	0	0	0	0
6/18/2024 22:36	40501	CRES_T2	103	111	8	0.58	0.66	0.08	0	0	0	0	0	0	0	0
6/18/2024 22:36	11104	EGYP_T1	0	0	0	0	0	0	0.84	0.82	0	0	0	0	0	0
6/18/2024 22:36	47001	HUGH_T2	4	0	-4	0.13	0	-0.13	-1.27	-1.24	1	1	0	900	900	0
6/18/2024 22:36	40502	CRES_T2	45	53	8	1.08	1.08	0	-0.08	-0.13	0	0	0	0	0	0
6/18/2024 22:36	24101	EHAZ_T1	11	29	18	0.22	0.26	0.04	0	0	0	0	0	0	0	0
6/18/2024 22:36	56501	ROCK_T2	1	6	5	9.8	1.57	-8.23	-1.61	-1.68	0	0	0	0	0	0
6/18/2024 22:36	51004	NHAR_T1	1	1	0	6.6	6.3	-0.3	-1.28	-1.36	0	0	0	0	0	0
6/18/2024 22:36	53501	EVIL_T2	1	1	0	0.8	0.8	0	-0.91	-0.89	3	3	0	1800	1800	0
6/18/2024 22:36	65901	SAKR_T2	1	1	0	6.8	7.4	0.6	-0.81	-0.89	2	2	0	1500	1500	0
6/18/2024 22:36	24102	EHAZ_T1	1	0	-1	0.1	0	-0.1	0.29	0.19	0	0	0	0	0	0
6/18/2024 22:36	61304	EARL_T1	0	0	0	0	0	0	-0.3	-0.37	1	1	0	600	600	0
6/18/2024 22:36	67602	WARW_T2	0	0	0	0	0	0	0.16	0.1	2	2	0	1500	1500	0
6/18/2024 22:36	56801	BENV_T1	10	11	1	0.65	0.73	0.08	-0.72	-0.76	2	2	0	1200	1200	0
6/18/2024 22:36	11504	FREE_T1	0	0	0	0	0	0	-1.44	-1.48	2	2	0	2100	2100	0
6/18/2024 22:36	41903	REED_T1	0	0	0	0	0	0	0.28	0.27	1	1	0	1200	1200	0
6/18/2024 22:36	67605	WARW_T1	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
6/18/2024 22:36	64203	KINZ_T1	0	0	0	0	0	0	0.05	0	1	1	0	600	600	0
6/18/2024 22:36	64201	KINZ_T1	4	1	-3	0.43	1	0.57	0	0	0	0	0	0	0	0
6/18/2024 22:36	66902	SHIL_T2	11	175	164	0.13	0.27	0.14	0	0	0	0	0	0	0	0
6/18/2024 22:36	11102	EGYP_T1	1	1	0	0.2	0	-0.2	0.31	0.34	0	0	0	0	0	0
6/18/2024 22:36	43304	WATS_T2	29	17	-12	0.63	0.3	-0.33	-0.68	-0.71	0	0	0	0	0	0
6/18/2024 22:36	61102	BERK_T5	0	0	0	0	0	0	0.15	0.15	1	1	0	300	300	0
6/18/2024 22:36	66903	SHIL_T2	0	17	17	0	0.16	0.16	0	0	0	0	0	0	0	0
6/18/2024 22:36	11101	EGYP_T1	1	1	0	0.3	1.8	1.5	0	0	0	0	0	0	0	0
6/18/2024 22:36	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/18/2024 22:36	66901	SHIL_T2	46	156	110	0.14	0.29	0.15	-0.48	-0.47	0	0	0	0	0	0
6/18/2024 22:36	43301	WATS_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/18/2024 22:36	41902	REED_T1	6	3	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
6/18/2024 22:36	64101	REFR_T1	0	0	0	0	0	0	1.31	1.25	0	0	0	0	0	0
6/18/2024 22:36	61303	EARL_T1	0	0	0	0	0	0	1.12	1.16	0	0	0	0	0	0
6/18/2024 22:37	51002	NHAR_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/18/2024 22:37	53902	HALI_T2	1	1	0	4	4.5	0.5	0	0	0	0	0	0	0	0
6/18/2024 22:37	67402	WAKE_T2	16	6	-10	0.36	0.35	-0.01	0.77	0.74	0	0	0	0	0	0
6/18/2024 22:37	67401	WAKE_T2	337	281	-56	0.72	0.57	-0.15	0	0	0	0	0	0	0	0
6/18/2024 22:37	40502	CRES_T2	45	53	8	1.08	1.08	0	-0.13	-0.17	0	0	0	0	0	0
6/18/2024 22:37	22905	HARW_T1	1	3	2	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/18/2024 22:37	53501	EVIL_T2	1	1	0	0.8	0.8	0	-1.78	-1.4	6	6	0	3600	3600	0
6/18/2024 22:37	11102	EGYP_T1	1	1	0	0.2	0	-0.2	0.31	0.34	0	0	0	0	0	0
6/18/2024 22:37	41902	REED_T1	6	3	-3	0.33	0	-0.33	0.46	0.52	1	1	0	900	900	0
6/18/2024 22:37	56801	BENV_T1	10	11	1	0.65	0.73	0.08	-1.52	-1.66	4	4	0	2400	2400	0
6/18/2024 22:37	22903	HARW_T1	21	21	0	0.96	0.52	-0.44	0	0	0	0	0	0	0	0
6/18/2024 22:37	11101	EGYP_T1	1	1	0	0.3	1.8	1.5	0	0	0	0	0	0	0	0
6/18/2024 22:37	47401	PENS_T1	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
6/18/2024 22:37	55103	WERT_T1	1	1	0	4.5	0.6	-3.9	0	0	0	0	0	0	0	0
6/18/2024 22:37	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:37	56501	ROCK_T2	1	6	5	9.8	1.57	-8.23	-1.68	-1.8	0	0	0	0	0	0
6/18/2024 22:37	56803	BENV_T1	3	4	1	1.43	2.35	0.92	0	0	0	0	0	0	0	0
6/18/2024 22:37	12701	MACU_T1	0	0	0	0	0	0	-0.81	-0.82	1	1	0	1200	1200	0
6/18/2024 22:37	40101	HUNT_T2	18	4	-14	0.68	0	-0.68	-2.22	-2.36	0	0	0	0	0	0
6/18/2024 22:37	27201	YATE_T1	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
6/18/2024 22:37	45501	DERR_T2	0	0	0	0	0	0	0.17	0.26	2	2	0	1800	1800	0
6/18/2024 22:37	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/18/2024 22:37	11903	ETEX_T1	0	0	0	0	0	0	1.03	0.99	0	0	0	0	0	0
6/18/2024 22:37	63401	HONY_T1	0	0	0	0	0	0	-0.1	-0.17	1	1	0	600	600	0
6/18/2024 22:37	67902	WNHO_T2	0	0	0	0	0	0	0.1	0.1	2	2	0	2100	2100	0
6/18/2024 22:37	65901	SAKR_T2	1	1	0	6.8	7.4	0.6	-0.81	-0.89	2	2	0	1500	1500	0
6/18/2024 22:37	67602	WARW_T2	0	0	0	0	0	0	0.16	0.1	2	2	0	1500	1500	0
6/18/2024 22:37	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:37	67605	WARW_T1	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
6/18/2024 22:37	51004	NHAR_T1	1	1	0	6.6	6.3	-0.3	-1.36	-1.4	0	0	0	0	0	0
6/18/2024 22:37	55101	WERT_T1	0	0	0	0	0	0	-2.19	-2.2	4	4	0	3300	3300	0
6/18/2024 22:37	22901	HARW_T1	0	0	0	0	0	0	-0.26	-0.25	1	1	0	1200	1200	0
6/18/2024 22:37	40501	CRES_T2	103	111	8	0.58	0.66	0.08	0	0	0	0	0	0	0	0
6/18/2024 22:37	41901	REED_T1	4	4	0	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
6/18/2024 22:37	29402	BELT_T1	1	1	0	8.8	9.5	0.7	0	0	0	0	0	0	0	0
6/18/2024 22:37	61102	BERK_T5	0	0	0	0	0	0	0.15	0.15	1	1	0	300	300	0
6/18/2024 22:37	53903	HALI_T2	1	2	1	0.2	0.25	0.05	-0.13	-0.13	0	0	0	0	0	0
6/18/2024 22:38	56501	ROCK_T2	1	6	5	9.8	1.57	-8.23	-5.04	-5.4	0	0	0	0	0	0
6/18/2024 22:38	67401	WAKE_T2	337	281	-56	0.72	0.57	-0.15	-0.6	-0.38	0	0	0	0	0	0
6/18/2024 22:38	63401	HONY_T1	0	0	0	0	0	0	-0.1	-0.17	1	1	0	600	600	0
6/18/2024 22:38	40502	CRES_T2	45	53	8	1.08	1.08	0	-0.78	-1.02	0	0	0	0	0	0
6/18/2024 22:38	40501	CRES_T2	103	111	8	0.58	0.66	0.08	0	0	0	0	0	0	0	0
6/18/2024 22:38	25503	MADI_T1	0	0	0	0	0	0	-0.55	-0.58	0	0	0	0	0	0
6/18/2024 22:38	55101	WERT_T1	0	0	0	0	0	0	-2.19	-2.2	4	4	0	3300	3300	0
6/18/2024 22:38	55001	NEWP_T1	0	0	0	0	0	0	-0.27	-0.34	0	0	0	0	0	0
6/18/2024 22:38	40602	PIGR_T1	0	0	0	0	0	0	0	-0.01	1	1	0	600	600	0
6/18/2024 22:38	55103	WERT_T1	1	1	0	4.5	0.6	-3.9	0	0	0	0	0	0	0	0
6/18/2024 22:38	46206	DANV_T2	3	1	-2	0.63	0.9	0.27	2.83	2.84	1	1	0	1200	1200	0
6/18/2024 22:38	47401	PENS_T1	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
6/18/2024 22:38	60502	NMAN_T2	0	0	0	0	0	0	0.24	0.2	0	0	0	0	0	0
6/18/2024 22:38	66505	SMAN_T2	1	0	-1	4.7	0	-4.7	0	0	0	0	0	0	0	0
6/18/2024 22:38	23401	HONE_T2	3	2	-1	1.07	0	-1.07	0.37	0.32	0	0	0	0	0	0
6/18/2024 22:38	66502	SMAN_T2	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
6/18/2024 22:38	46001	BERW_T1	0	0	0	0	0	0	3.39	3.36	0	0	0	0	0	0
6/18/2024 22:38	45602	WOOL_T1	58	45	-13	0.49	0.38	-0.11	0.63	0.57	0	0	0	0	0	0
6/18/2024 22:38	60501	NMAN_T2	3	3	0	4.47	4.77	0.3	0	0	0	0	0	0	0	0
6/18/2024 22:38	55003	NEWP_T2	0	0	0	0	0	0	-0.96	-0.95	1	1	0	600	600	0
6/18/2024 22:38	67402	WAKE_T2	16	6	-10	0.36	0.35	-0.01	0	0	0	0	0	0	0	0
6/18/2024 22:38	46203	DANV_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/18/2024 22:38	44301	BEAV_T2	8	1	-7	1.1	0.8	-0.3	0.95	0.94	1	1	0	600	600	0
6/18/2024 22:39	43304	WATS_T2	29	17	-12	0.63	0.3	-0.33	-0.68	-0.71	0	0	0	0	0	0
6/18/2024 22:39	43301	WATS_T2	1	1	0	0.4	0.1	-0.3	-0.19	-0.2	1	1	0	900	900	0
6/18/2024 22:39	67602	WARW_T2	0	0	0	0	0	0	0.16	0.1	2	2	0	1500	1500	0
6/18/2024 22:39	67401	WAKE_T2	337	281	-56	0.72	0.57	-0.15	0	0	0	0	0	0	0	0
6/18/2024 22:39	66504	SMAN_T2	0	0	0	0	0	0	-0.6	-0.62	1	1	0	1200	1200	0
6/18/2024 22:39	53501	EVIL_T2	1	1	0	0.8	0.8	0	-2.68	-2.11	9	9	0	5400	5400	0
6/18/2024 22:39	46206	DANV_T2	3	1	-2	0.63	0.9	0.27	0	0	0	0	0	0	0	0
6/18/2024 22:39	66502	SMAN_T2	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
6/18/2024 22:39	42901	MIDD_T2	3	1	-2	0.83	0	-0.83	0	0	0	0	0	0	0	0
6/18/2024 22:39	57104	SPHI_T2	1	1	0	2	1.5	-0.5	-1.01	-1.03	1	1	0	900	900	0
6/18/2024 22:39	52002	LING_T2	2	1	-1	0.1	0	-0.1	0.68	0.65	0	0	0	0	0	0
6/18/2024 22:39	57106	SPHI_T2	3	3	0	0.83	1.33	0.5	0	0	0	0	0	0	0	0
6/18/2024 22:39	13302	ORVI_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
6/18/2024 22:39	47001	HUGH_T2	4	0	-4	0.13	0	-0.13	-1.27	-1.24	1	1	0	900	900	0
6/18/2024 22:39	67402	WAKE_T2	16	6	-10	0.36	0.35	-0.01	0.77	0.74	0	0	0	0	0	0
6/18/2024 22:39	64204	KINZ_T1	2	1	-1	0.5	1	0.5	0	0	0	0	0	0	0	0
6/18/2024 22:39	51401	LYKE_T1	0	0	0	0	0	0	0.49	0.44	0	0	0	0	0	0
6/18/2024 22:39	12701	MACU_T1	0	0	0	0	0	0	-0.81	-0.82	1	1	0	1200	1200	0
6/18/2024 22:39	66505	SMAN_T2	1	0	-1	4.7	0	-4.7	0	0	0	0	0	0	0	0
6/18/2024 22:39	51402	LYKE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/18/2024 22:39	41902	REED_T1	6	3	-3	0.33	0	-0.33	0.46	0.52	1	1	0	900	900	0
6/18/2024 22:39	43202	MVIL_T2	20	52	32	0.23	0.37	0.14	0	0	0	0	0	0	0	0
6/18/2024 22:39	44203	POIN_T2	10	6	-4	1.53	0.2	-1.33	-0.08	-0.09	2	2	0	2100	2100	0
6/18/2024 22:39	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:39	20403	ASHF_T2	0	0	0	0	0	0	0.86	0.85	0	0	0	0	0	0
6/18/2024 22:39	61304	EARL_T1	0	0	0	0	0	0	-0.3	-0.37	1	1	0	600	600	0
6/18/2024 22:39	12801	MICK_T1	0	0	0	0	0	0	-0.71	-0.77	1	1	0	600	600	0
6/18/2024 22:39	55103	WERT_T1	1	1	0	4.5	0.6	-3.9	0	0	0	0	0	0	0	0
6/18/2024 22:39	43201	MVIL_T2	0	0	0	0	0	0	-0.09	-0.18	0	0	0	0	0	0
6/18/2024 22:39	12803	MICK_T1	1	1	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
6/18/2024 22:39	42902	MIDD_T2	2	1	-1	0.25	0	-0.25	-0.47	-0.55	1	1	0	600	600	0
6/18/2024 22:39	45502	DERR_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
6/18/2024 22:39	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/18/2024 22:39	57101	SPHI_T2	6	6	0	0.47	0.63	0.16	0	0	0	0	0	0	0	0
6/18/2024 22:39	46203	DANV_T2	2	0	-2	0.25	0	-0.25	-0.3	-3.36	0	0	0	0	0	0
6/18/2024 22:39	46001	BERW_T1	0	0	0	0	0	0	1.13	1.12	0	0	0	0	0	0
6/18/2024 22:39	45501	DERR_T2	0	0	0	0	0	0	0.34	0.52	4	4	0	3600	3600	0
6/18/2024 22:39	13503	MCMI_T2	9	9	0	0.1	0.12	0.02	-0.63	-0.61	0	0	0	0	0	0
6/18/2024 22:39	47401	PENS_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
6/18/2024 22:39	62102	ELAN_T1	0	0	0	0	0	0	0.67	0.62	0	0	0	0	0	0
6/18/2024 22:39	10801	CHHI_T1	0	0	0	0	0	0	0	0	3	3	0	2100	2100	0
6/18/2024 22:39	40501	CRES_T2	103	111	8	0.58	0.66	0.08	0	0	0	0	0	0	0	0
6/18/2024 22:39	64201	KINZ_T1	4	1	-3	0.43	1	0.57	-0.11	-0.14	2	2	0	1200	1200	0
6/18/2024 22:39	52402	GRPA_T2	11	3	-8	0.82	0	-0.82	-0.69	-0.6	0	0	0	0	0	0
6/18/2024 22:39	52403	GRPA_T2	14	26	12	0.86	0.57	-0.29	0	0	0	0	0	0	0	0
6/18/2024 22:39	40502	CRES_T2	45	53	8	1.08	1.08	0	-0.13	-0.17	0	0	0	0	0	0
6/18/2024 22:39	22003	BOHE_T1	1	1	0	0.4	0.3	-0.1	0.15	0.15	0	0	0	0	0	0
6/18/2024 22:39	45602	WOOL_T1	58	45	-13	0.49	0.38	-0.11	0.63	0.57	0	0	0	0	0	0
6/18/2024 22:39	56802	BENV_T2	3	3	0	1.3	0	-1.3	-0.85	-0.84	0	0	0	0	0	0
6/18/2024 22:39	55101	WERT_T1	0	0	0	0	0	0	-2.19	-2.2	4	4	0	3300	3300	0
6/18/2024 22:39	41901	REED_T1	4	4	0	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
6/18/2024 22:39	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:40	40502	CRES_T2	45	53	8	1.08	1.08	0	-0.13	-0.17	0	0	0	0	0	0
6/18/2024 22:40	43304	WATS_T2	29	17	-12	0.63	0.3	-0.33	-0.68	-0.71	0	0	0	0	0	0
6/18/2024 22:40	47104	MARL_T1	21	15	-6	0.6	0.17	-0.43	0	0	0	0	0	0	0	0
6/18/2024 22:40	43301	WATS_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/18/2024 22:40	56501	ROCK_T2	1	6	5	9.8	1.57	-8.23	-1.68	-1.8	0	0	0	0	0	0
6/18/2024 22:40	56504	ROCK_T2	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
6/18/2024 22:40	67402	WAKE_T2	16	6	-10	0.36	0.35	-0.01	0	0	0	0	0	0	0	0
6/18/2024 22:40	64305	LINC_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/18/2024 22:40	47401	PENS_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
6/18/2024 22:40	55001	NEWP_T1	0	0	0	0	0	0	-0.27	-0.34	0	0	0	0	0	0
6/18/2024 22:40	52401	GRPA_T2	0	0	0	0	0	0	-0.22	-0.27	0	0	0	0	0	0
6/18/2024 22:40	52403	GRPA_T2	14	26	12	0.86	0.57	-0.29	-0.19	-0.08	0	0	0	0	0	0
6/18/2024 22:40	10801	CHHI_T1	0	0	0	0	0	0	0	0	3	3	0	2100	2100	0
6/18/2024 22:40	47101	MARL_T1	44	43	-1	1.42	0.78	-0.64	-3.56	-3.54	2	2	0	1200	1200	0
6/18/2024 22:40	65401	MARI_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:40	57401	SPAN_T1	1	2	1	0.4	0	-0.4	-0.34	-0.44	1	1	0	600	600	0
6/18/2024 22:40	67201	TEHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/18/2024 22:40	42902	MIDD_T2	2	1	-1	0.25	0	-0.25	-0.47	-0.55	1	1	0	600	600	0
6/18/2024 22:40	40501	CRES_T2	103	111	8	0.58	0.66	0.08	0	0	0	0	0	0	0	0
6/18/2024 22:40	61102	BERK_T5	0	0	0	0	0	0	0.15	0.15	1	1	0	300	300	0
6/18/2024 22:40	12606	MACA_T1	35	41	6	1.4	1.16	-0.24	0	0	0	0	0	0	0	0
6/18/2024 22:40	52402	GRPA_T2	11	3	-8	0.82	0	-0.82	0	0	0	0	0	0	0	0
6/18/2024 22:40	10805	CHHI_T2	1	7	6	8.7	4.55	-4.15	0	0	1	1	0	600	600	0
6/18/2024 22:40	12601	MACA_T1	0	0	0	0	0	0	1.37	1.32	0	0	0	0	0	0
6/18/2024 22:40	56802	BENV_T2	3	3	0	1.3	0	-1.3	-1.7	-1.68	0	0	0	0	0	0
6/18/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	1.75	1.67	0	0	0	0	0	0
6/18/2024 22:40	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:40	67203	TEHI_T1	0	0	0	0	0	0	1.81	1.87	3	3	0	2100	2100	0
6/18/2024 22:40	67401	WAKE_T2	337	281	-56	0.72	0.57	-0.15	-0.6	-0.38	0	0	0	0	0	0
6/18/2024 22:40	42901	MIDD_T2	3	1	-2	0.83	0	-0.83	0	0	0	0	0	0	0	0
6/18/2024 22:40	40101	HUNT_T2	18	4	-14	0.68	0	-0.68	-1.11	-1.18	0	0	0	0	0	0
6/18/2024 22:40	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:40	67602	WARW_T2	0	0	0	0	0	0	0.49	0.3	6	6	0	4500	4500	0
6/18/2024 22:40	43202	MVIL_T2	20	52	32	0.23	0.37	0.14	-0.46	-0.47	0	0	0	0	0	0
6/18/2024 22:40	64301	LINC_T1	0	0	0	0	0	0	-0.79	-0.79	1	1	0	600	600	0
6/18/2024 22:41	47104	MARL_T1	21	15	-6	0.6	0.17	-0.43	0	0	0	0	0	0	0	0
6/18/2024 22:41	57106	SPHI_T2	3	3	0	0.83	1.33	0.5	0	0	0	0	0	0	0	0
6/18/2024 22:41	43202	MVIL_T2	20	52	32	0.23	0.37	0.14	-0.46	-0.47	0	0	0	0	0	0
6/18/2024 22:41	14403	SSLA_T1	3	3	0	0.43	0	-0.43	1.18	1.19	0	0	0	0	0	0
6/18/2024 22:41	67602	WARW_T2	0	0	0	0	0	0	0.16	0.1	2	2	0	1500	1500	0
6/18/2024 22:41	58003	WCAR_T1	1	1	0	1	1	0	0.37	0.33	1	1	0	600	600	0
6/18/2024 22:41	40101	HUNT_T2	18	4	-14	0.68	0	-0.68	-1.11	-1.18	0	0	0	0	0	0
6/18/2024 22:41	23401	HONE_T2	3	2	-1	1.07	0	-1.07	0.37	0.32	0	0	0	0	0	0
6/18/2024 22:41	64204	KINZ_T1	2	1	-1	0.5	1	0.5	0	0	0	0	0	0	0	0
6/18/2024 22:41	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/18/2024 22:41	52404	GRPA_T2	0	0	0	0	0	0	-0.59	0	0	0	0	0	0	0
6/18/2024 22:41	67801	WLAN_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
6/18/2024 22:41	56504	ROCK_T2	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
6/18/2024 22:41	11804	FRAN_T1	82	23	-59	0.53	0.3	-0.23	0.48	0.45	0	0	0	0	0	0
6/18/2024 22:41	64201	KINZ_T1	4	1	-3	0.43	1	0.57	-0.11	-0.14	2	2	0	1200	1200	0
6/18/2024 22:41	40901	JESH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/18/2024 22:41	67402	WAKE_T2	16	6	-10	0.36	0.35	-0.01	0	0	0	0	0	0	0	0
6/18/2024 22:41	52501	PROG_T1	0	0	0	0	0	0	1.09	1.06	1	1	0	300	300	0
6/18/2024 22:41	56802	BENV_T2	3	3	0	1.3	0	-1.3	-0.85	-0.84	0	0	0	0	0	0
6/18/2024 22:41	53903	HALI_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
6/18/2024 22:41	52002	LING_T2	2	1	-1	0.1	0	-0.1	1.36	1.3	0	0	0	0	0	0
6/18/2024 22:41	44202	POIN_T2	0	0	0	0	0	0	-0.95	-0.82	2	2	0	1800	1800	0
6/18/2024 22:41	44301	BEAV_T2	8	1	-7	1.1	0.8	-0.3	0.95	0.94	1	1	0	600	600	0
6/18/2024 22:41	42902	MIDD_T2	2	1	-1	0.25	0	-0.25	-0.47	-0.55	1	1	0	600	600	0
6/18/2024 22:41	53902	HALI_T2	1	1	0	4	4.5	0.5	0	0	0	0	0	0	0	0
6/18/2024 22:41	42901	MIDD_T2	3	1	-2	0.83	0	-0.83	0	0	0	0	0	0	0	0
6/18/2024 22:41	67401	WAKE_T2	337	281	-56	0.72	0.57	-0.15	-0.6	-0.38	0	0	0	0	0	0
6/18/2024 22:41	45802	HEGI_T2	13	13	0	0.39	0.29	-0.1	0.2	0.19	2	2	0	1200	1200	0
6/18/2024 22:41	45501	DERR_T2	0	0	0	0	0	0	0.17	0.26	2	2	0	1800	1800	0
6/18/2024 22:41	14404	SSLA_T1	3	1	-2	3.4	3.4	0	0	0	0	0	0	0	0	0
6/18/2024 22:41	47101	MARL_T1	44	43	-1	1.42	0.78	-0.64	-1.78	-1.77	1	1	0	600	600	0
6/18/2024 22:41	40501	CRES_T2	103	111	8	0.58	0.66	0.08	0	0	0	0	0	0	0	0
6/18/2024 22:41	59302	MCAL_T1	4	5	1	1	0.43	-0.57	-0.53	-0.58	1	1	0	600	600	0
6/18/2024 22:41	56801	BENV_T1	10	11	1	0.65	0.73	0.08	-0.76	-0.83	2	2	0	1200	1200	0
6/18/2024 22:41	43304	WATS_T2	29	17	-12	0.63	0.3	-0.33	-0.68	-0.71	0	0	0	0	0	0
6/18/2024 22:41	57403	SPAN_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
6/18/2024 22:41	52402	GRPA_T2	11	3	-8	0.82	0	-0.82	0	0	0	0	0	0	0	0
6/18/2024 22:41	44203	POIN_T2	10	6	-4	1.53	0.2	-1.33	0	0	0	0	0	0	0	0
6/18/2024 22:41	44801	EDAN_T2	3	2	-1	1.03	1.3	0.27	0.79	0.83	0	0	0	0	0	0
6/18/2024 22:41	46203	DANV_T2	2	0	-2	0.25	0	-0.25	-0.6	-6.72	0	0	0	0	0	0
6/18/2024 22:41	53901	HALI_T2	0	0	0	0	0	0	-1	-1.03	0	0	0	0	0	0
6/18/2024 22:41	67804	WLAN_T1	0	5	5	0	0.33	0.33	0	0	0	0	0	0	0	0
6/18/2024 22:41	57401	SPAN_T1	1	2	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/18/2024 22:41	52403	GRPA_T2	14	26	12	0.86	0.57	-0.29	0	0	0	0	0	0	0	0
6/18/2024 22:41	43301	WATS_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/18/2024 22:41	42201	SHEN_T2	0	0	0	0	0	0	0.21	0.18	1	1	0	600	600	0
6/18/2024 22:41	57104	SPHI_T2	1	1	0	2	1.5	-0.5	0	0	0	0	0	0	0	0
6/18/2024 22:41	46206	DANV_T2	3	1	-2	0.63	0.9	0.27	0	0	0	0	0	0	0	0
6/18/2024 22:41	40902	JESH_T1	0	0	0	0	0	0	-0.87	-0.73	1	1	0	600	600	0
6/18/2024 22:41	57101	SPHI_T2	6	6	0	0.47	0.63	0.16	0	0	0	0	0	0	0	0
6/18/2024 22:41	56501	ROCK_T2	1	6	5	9.8	1.57	-8.23	-1.68	-1.8	0	0	0	0	0	0
6/18/2024 22:41	57103	SPHI_T2	0	0	0	0	0	0	-0.34	-0.39	1	1	0	600	600	0
6/18/2024 22:41	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:41	64101	REFR_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
6/18/2024 22:41	67605	WARW_T1	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
6/18/2024 22:41	40502	CRES_T2	45	53	8	1.08	1.08	0	-0.26	-0.34	0	0	0	0	0	0
6/18/2024 22:41	12701	MACU_T1	0	0	0	0	0	0	-0.81	-0.82	1	1	0	1200	1200	0
6/18/2024 22:41	47001	HUGH_T2	4	0	-4	0.13	0	-0.13	-1.27	-1.24	1	1	0	900	900	0
6/18/2024 22:41	56803	BENV_T1	3	4	1	1.43	2.35	0.92	0	0	0	0	0	0	0	0
6/18/2024 22:41	55101	WERT_T1	0	0	0	0	0	0	-4.38	-4.41	8	8	0	6600	6600	0
6/18/2024 22:41	55103	WERT_T1	1	1	0	4.5	0.6	-3.9	0	0	0	0	0	0	0	0
6/18/2024 22:42	52402	GRPA_T2	11	3	-8	0.82	0	-0.82	0	0	0	0	0	0	0	0
6/18/2024 22:42	27005	BELL_T1	0	0	0	0	0	0	-0.89	-0.95	0	0	0	0	0	0
6/18/2024 22:42	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/18/2024 22:42	53903	HALI_T2	1	2	1	0.2	0.25	0.05	-0.13	-0.13	0	0	0	0	0	0
6/18/2024 22:42	53502	EVIL_T2	0	0	0	0	0	0	0.6	0.58	1	1	0	600	600	0
6/18/2024 22:42	42902	MIDD_T2	2	1	-1	0.25	0	-0.25	-0.47	-0.55	1	1	0	600	600	0
6/18/2024 22:42	57602	RUTH_T2	0	0	0	0	0	0	-1.1	-0.15	0	0	0	0	0	0
6/18/2024 22:42	47401	PENS_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
6/18/2024 22:42	20403	ASHF_T2	0	0	0	0	0	0	0.86	0.85	0	0	0	0	0	0
6/18/2024 22:42	47101	MARL_T1	44	43	-1	1.42	0.78	-0.64	-1.78	-1.77	1	1	0	600	600	0
6/18/2024 22:42	56501	ROCK_T2	1	6	5	9.8	1.57	-8.23	-5.04	-5.4	0	0	0	0	0	0
6/18/2024 22:42	66504	SMAN_T2	0	0	0	0	0	0	-0.6	-0.62	1	1	0	1200	1200	0
6/18/2024 22:42	20601	GRWO_T2	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
6/18/2024 22:42	27004	BELL_T1	2	2	0	0.85	0.4	-0.45	0	0	0	0	0	0	0	0
6/18/2024 22:42	54201	PENN_T1	17	19	2	0.52	0.5	-0.02	-1.53	-1.58	0	0	0	0	0	0
6/18/2024 22:42	65401	MARI_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:42	45801	HEGI_T1	0	0	0	0	0	0	-0.26	-0.3	1	1	0	900	900	0
6/18/2024 22:42	20603	GRWO_T2	0	0	0	0	0	0	-0.35	-0.38	1	1	0	900	900	0
6/18/2024 22:42	43301	WATS_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/18/2024 22:42	42901	MIDD_T2	3	1	-2	0.83	0	-0.83	0	0	0	0	0	0	0	0
6/18/2024 22:42	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:42	53501	EVIL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/18/2024 22:42	67204	TEHI_T2	0	0	0	0	0	0	-0.04	-0.07	0	0	0	0	0	0
6/18/2024 22:42	45501	DERR_T2	0	0	0	0	0	0	0.17	0.26	2	2	0	1800	1800	0
6/18/2024 22:42	55001	NEWP_T1	0	0	0	0	0	0	-0.27	-0.34	0	0	0	0	0	0
6/18/2024 22:42	47104	MARL_T1	21	15	-6	0.6	0.17	-0.43	0	0	0	0	0	0	0	0
6/18/2024 22:42	66505	SMAN_T2	1	0	-1	4.7	0	-4.7	-0.28	-0.31	3	3	0	2100	2100	0
6/18/2024 22:42	55103	WERT_T1	1	1	0	4.5	0.6	-3.9	0	0	0	0	0	0	0	0
6/18/2024 22:42	53902	HALI_T2	1	1	0	4	4.5	0.5	0	0	0	0	0	0	0	0
6/18/2024 22:42	43304	WATS_T2	29	17	-12	0.63	0.3	-0.33	-1.36	-1.42	0	0	0	0	0	0
6/18/2024 22:42	52401	GRPA_T2	0	0	0	0	0	0	-0.22	-0.27	0	0	0	0	0	0
6/18/2024 22:42	55101	WERT_T1	0	0	0	0	0	0	-2.19	-2.2	4	4	0	3300	3300	0
6/18/2024 22:42	67201	TEHI_T1	1	0	-1	0.1	0	-0.1	0.16	0.15	0	0	0	0	0	0
6/18/2024 22:42	54203	PENN_T1	15	5	-10	0.4	1.28	0.88	0	0	0	0	0	0	0	0
6/18/2024 22:42	52403	GRPA_T2	14	26	12	0.86	0.57	-0.29	0	0	0	0	0	0	0	0
6/18/2024 22:42	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:42	58706	ROSE_T2	1	1	0	1.9	0.6	-1.3	-0.18	1.05	1	1	0	600	600	0
6/18/2024 22:42	58705	ROSE_T2	5	5	0	0.46	0.84	0.38	0	0	0	0	0	0	0	0
6/18/2024 22:43	57303	MOAL_T2	1	1	0	8.1	8.1	0	0	0	0	0	0	0	0	0
6/18/2024 22:43	64101	REFR_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
6/18/2024 22:43	20601	GRWO_T2	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
6/18/2024 22:43	54701	NEBL_T1	1	1	0	0.3	1.1	0.8	0	0	1	1	0	600	600	0
6/18/2024 22:43	56501	ROCK_T2	1	6	5	9.8	1.57	-8.23	-1.68	-1.8	0	0	0	0	0	0
6/18/2024 22:43	44801	EDAN_T2	3	2	-1	1.03	1.3	0.27	0.79	0.83	0	0	0	0	0	0
6/18/2024 22:43	52402	GRPA_T2	11	3	-8	0.82	0	-0.82	-0.69	-0.6	0	0	0	0	0	0
6/18/2024 22:43	56801	BENV_T1	10	11	1	0.65	0.73	0.08	-0.76	-0.83	2	2	0	1200	1200	0
6/18/2024 22:43	49803	UNIV_T1	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
6/18/2024 22:43	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/18/2024 22:43	43304	WATS_T2	29	17	-12	0.63	0.3	-0.33	-0.68	-0.71	0	0	0	0	0	0
6/18/2024 22:43	44301	BEAV_T2	8	1	-7	1.1	0.8	-0.3	0.95	0.94	1	1	0	600	600	0
6/18/2024 22:43	53903	HALI_T2	1	2	1	0.2	0.25	0.05	-0.13	-0.13	0	0	0	0	0	0
6/18/2024 22:43	43202	MVIL_T2	20	52	32	0.23	0.37	0.14	-0.46	-0.47	0	0	0	0	0	0
6/18/2024 22:43	53501	EVIL_T2	1	1	0	0.8	0.8	0	-0.89	-0.7	3	3	0	1800	1800	0
6/18/2024 22:43	58203	NEWV_T2	1	1	0	4.5	4.8	0.3	-0.99	-0.96	0	0	0	0	0	0
6/18/2024 22:43	49804	UNIV_T1	1	1	0	2	1	-1	0	0	0	0	0	0	0	0
6/18/2024 22:43	53902	HALI_T2	1	1	0	4	4.5	0.5	0	0	0	0	0	0	0	0
6/18/2024 22:43	56803	BENV_T1	3	4	1	1.43	2.35	0.92	0	0	0	0	0	0	0	0
6/18/2024 22:43	55003	NEWP_T2	0	0	0	0	0	0	-0.96	-0.95	1	1	0	600	600	0
6/18/2024 22:43	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:43	47101	MARL_T1	44	43	-1	1.42	0.78	-0.64	-3.56	-3.54	2	2	0	1200	1200	0
6/18/2024 22:43	46206	DANV_T2	3	1	-2	0.63	0.9	0.27	0	0	0	0	0	0	0	0
6/18/2024 22:43	52403	GRPA_T2	14	26	12	0.86	0.57	-0.29	0	0	0	0	0	0	0	0
6/18/2024 22:43	52404	GRPA_T2	0	0	0	0	0	0	-1.18	0	0	0	0	0	0	0
6/18/2024 22:43	43301	WATS_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/18/2024 22:43	58003	WCAR_T1	1	1	0	1	1	0	0.37	0.33	1	1	0	600	600	0
6/18/2024 22:43	46203	DANV_T2	2	0	-2	0.25	0	-0.25	-0.15	-1.68	0	0	0	0	0	0
6/18/2024 22:43	46001	BERW_T1	0	0	0	0	0	0	1.13	1.12	0	0	0	0	0	0
6/18/2024 22:43	57304	MOAL_T2	1	0	-1	0.1	0	-0.1	-0.15	-0.17	0	0	0	0	0	0
6/18/2024 22:43	61304	EARL_T1	0	0	0	0	0	0	-0.3	-0.37	1	1	0	600	600	0
6/18/2024 22:43	47104	MARL_T1	21	15	-6	0.6	0.17	-0.43	0	0	0	0	0	0	0	0
6/18/2024 22:43	46101	MACI_T2	0	0	0	0	0	0	0.78	0.77	0	0	0	0	0	0
6/18/2024 22:44	53501	EVIL_T2	1	1	0	0.8	0.8	0	-0.89	-0.7	3	3	0	1800	1800	0
6/18/2024 22:44	43301	WATS_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/18/2024 22:44	40502	CRES_T2	45	53	8	1.08	1.08	0	-0.13	-0.17	0	0	0	0	0	0
6/18/2024 22:44	21203	ECAR_T1	0	0	0	0	0	0	-0.2	-0.15	0	0	0	0	0	0
6/18/2024 22:44	52404	GRPA_T2	0	0	0	0	0	0	-0.59	0	0	0	0	0	0	0
6/18/2024 22:44	47401	PENS_T1	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
6/18/2024 22:44	52402	GRPA_T2	11	3	-8	0.82	0	-0.82	0	0	0	0	0	0	0	0
6/18/2024 22:44	55001	NEWP_T1	0	0	0	0	0	0	-0.27	-0.34	0	0	0	0	0	0
6/18/2024 22:44	43304	WATS_T2	29	17	-12	0.63	0.3	-0.33	-1.36	-1.42	0	0	0	0	0	0
6/18/2024 22:44	47104	MARL_T1	21	15	-6	0.6	0.17	-0.43	0	0	0	0	0	0	0	0
6/18/2024 22:44	14403	SSLA_T1	3	3	0	0.43	0	-0.43	1.18	1.19	0	0	0	0	0	0
6/18/2024 22:44	45501	DERR_T2	0	0	0	0	0	0	0.17	0.26	2	2	0	1800	1800	0
6/18/2024 22:44	42201	SHEN_T2	0	0	0	0	0	0	0.21	0.18	1	1	0	600	600	0
6/18/2024 22:44	66703	STRA_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
6/18/2024 22:44	14404	SSLA_T1	3	1	-2	3.4	3.4	0	0	0	0	0	0	0	0	0
6/18/2024 22:44	44301	BEAV_T2	8	1	-7	1.1	0.8	-0.3	0.95	0.94	1	1	0	600	600	0
6/18/2024 22:44	13105	NHAM_T2	15	2	-13	0.69	0.55	-0.14	-0.85	-0.91	1	1	0	1200	1200	0
6/18/2024 22:44	52403	GRPA_T2	14	26	12	0.86	0.57	-0.29	-0.19	-0.08	0	0	0	0	0	0
6/18/2024 22:44	45502	DERR_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
6/18/2024 22:44	47101	MARL_T1	44	43	-1	1.42	0.78	-0.64	-1.78	-1.77	1	1	0	600	600	0
6/18/2024 22:44	40501	CRES_T2	103	111	8	0.58	0.66	0.08	0	0	0	0	0	0	0	0
6/18/2024 22:44	23401	HONE_T2	3	2	-1	1.07	0	-1.07	0.37	0.32	0	0	0	0	0	0
6/18/2024 22:44	67605	WARW_T1	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
6/18/2024 22:45	43304	WATS_T2	17	6	-11	0.43	0.25	-0.18	-0.68	-0.71	0	0	0	0	0	0
6/18/2024 22:45	64204	KINZ_T1	1	1	0	0.4	1.2	0.8	0	0	0	0	0	0	0	0
6/18/2024 22:45	44801	EDAN_T2	2	1	-1	1.3	0	-1.3	0.79	0.83	0	0	0	0	0	0
6/18/2024 22:45	47104	MARL_T1	15	4	-11	0.39	0	-0.39	0	0	0	0	0	0	0	0
6/18/2024 22:45	40501	CRES_T2	109	106	-3	0.65	0.61	-0.04	0	0	0	0	0	0	0	0
6/18/2024 22:45	47101	MARL_T1	41	32	-9	0.85	0.49	-0.36	-1.78	-1.77	1	1	0	600	600	0
6/18/2024 22:45	57401	SPAN_T1	2	3	1	0.4	0	-0.4	-0.34	-0.44	1	1	0	600	600	0
6/18/2024 22:45	67401	WAKE_T2	243	276	33	0.48	0.57	0.09	0	0	0	0	0	0	0	0
6/18/2024 22:45	61303	EARL_T1	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
6/18/2024 22:45	44203	POIN_T2	6	2	-4	0.73	0.3	-0.43	-0.08	-0.09	2	2	0	2100	2100	0
6/18/2024 22:45	64101	RERR_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
6/18/2024 22:45	41901	REED_T1	4	7	3	0.25	0.26	0.01	0	0	0	0	0	0	0	0
6/18/2024 22:45	40502	CRES_T2	48	53	5	1.13	1.05	-0.08	-0.26	-0.34	0	0	0	0	0	0
6/18/2024 22:45	45801	HEGI_T1	0	0	0	0	0	0	-0.26	-0.3	1	1	0	900	900	0
6/18/2024 22:45	46203	DANV_T2	0	0	0	0	0	0	-0.15	-1.68	0	0	0	0	0	0
6/18/2024 22:45	42903	MIDD_T2	0	0	0	0	0	0	-1.13	-1.24	1	1	0	1200	1200	0
6/18/2024 22:45	56803	BENV_T1	4	4	0	2.35	2.48	0.13	0	0	0	0	0	0	0	0
6/18/2024 22:45	67605	WARW_T1	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
6/18/2024 22:45	56801	BENV_T1	9	8	-1	0.79	0.99	0.2	-2.28	-2.49	6	6	0	3600	3600	0
6/18/2024 22:45	41902	REED_T1	1	2	1	0.2	0	-0.2	0.92	1.04	2	2	0	1800	1800	0
6/18/2024 22:45	46206	DANV_T2	1	2	1	0.9	1	0.1	0	0	0	0	0	0	0	0
6/18/2024 22:45	42902	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/18/2024 22:45	64201	KINZ_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
6/18/2024 22:45	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/18/2024 22:45	64203	KINZ_T1	0	0	0	0	0	0	0.05	0	1	1	0	600	600	0
6/18/2024 22:45	61301	EARL_T1	0	0	0	0	0	0	-1.3	-1.28	2	2	0	1800	1800	0
6/18/2024 22:45	42901	MIDD_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/18/2024 22:45	67402	WAKE_T2	4	6	2	0.28	0.35	0.07	0.77	0.74	0	0	0	0	0	0
6/18/2024 22:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:46	46301	ROHR_T1	155	64	-91	0.34	0.18	-0.16	0	0	0	0	0	0	0	0
6/18/2024 22:46	53501	EVIL_T2	1	1	0	0.1	0.8	0.7	-0.89	-0.7	3	3	0	1800	1800	0
6/18/2024 22:46	46803	HEPB_T2	0	0	0	0	0	0	0.63	0.66	0	0	0	0	0	0
6/18/2024 22:46	40901	JESH_T1	1	0	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/18/2024 22:46	63305	GREE_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/18/2024 22:46	46302	ROHR_T1	2	2	0	2.25	2.6	0.35	0.42	0.38	0	0	0	0	0	0
6/18/2024 22:46	56801	BENV_T1	9	8	-1	0.79	0.99	0.2	-0.76	-0.83	2	2	0	1200	1200	0
6/18/2024 22:46	45501	DERR_T2	0	0	0	0	0	0	0.34	0.52	4	4	0	3600	3600	0
6/18/2024 22:46	56803	BENV_T1	4	4	0	2.35	2.48	0.13	0	0	0	0	0	0	0	0
6/18/2024 22:46	40902	JESH_T1	0	1	1	0	0	0	-0.87	-0.73	1	1	0	600	600	0
6/18/2024 22:46	52002	LING_T2	1	0	-1	0.2	0	-0.2	0.68	0.65	0	0	0	0	0	0
6/18/2024 22:46	53903	HALI_T2	2	2	0	0.15	0.25	0.1	-0.13	-0.13	0	0	0	0	0	0
6/18/2024 22:46	53902	HALI_T2	1	1	0	4.1	4.5	0.4	0	0	0	0	0	0	0	0
6/18/2024 22:46	44202	POIN_T2	0	0	0	0	0	0	-0.95	-0.82	2	2	0	1800	1800	0
6/18/2024 22:46	41901	REED_T1	4	7	3	0.25	0.26	0.01	0	0	0	0	0	0	0	0
6/18/2024 22:46	64101	RERR_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
6/18/2024 22:46	41902	REED_T1	1	2	1	0.2	0	-0.2	0.46	0.52	1	1	0	900	900	0
6/18/2024 22:46	63304	GREE_T1	0	0	0	0	0	0	-1.11	-1.14	0	0	0	0	0	0
6/18/2024 22:46	44203	POIN_T2	6	2	-4	0.73	0.3	-0.43	0	0	0	0	0	0	0	0
6/18/2024 22:46	46801	HEPB_T2	2	2	0	0.15	0.25	0.1	0.16	0.12	0	0	0	0	0	0
6/18/2024 22:46	46206	DANV_T2	1	2	1	0.9	1	0.1	2.83	2.84	1	1	0	1200	1200	0
6/18/2024 22:47	43304	WATS_T2	17	6	-11	0.43	0.25	-0.18	-0.68	-0.71	0	0	0	0	0	0
6/18/2024 22:47	41901	REED_T1	4	7	3	0.25	0.26	0.01	0	0	0	0	0	0	0	0
6/18/2024 22:47	41903	REED_T1	0	0	0	0	0	0	0.27	0.29	1	1	0	1200	1200	0
6/18/2024 22:47	40501	CRES_T2	109	106	-3	0.65	0.61	-0.04	0	0	0	0	0	0	0	0
6/18/2024 22:47	56801	BENV_T1	9	8	-1	0.79	0.99	0.2	-2.28	-2.49	6	6	0	3600	3600	0
6/18/2024 22:47	40502	CRES_T2	48	53	5	1.13	1.05	-0.08	-0.13	-0.17	0	0	0	0	0	0
6/18/2024 22:47	41902	REED_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/18/2024 22:47	61304	EARL_T1	0	0	0	0	0	0	-0.3	-0.37	1	1	0	600	600	0
6/18/2024 22:47	42902	MIDD_T2	1	0	-1	0.2	0	-0.2	-0.47	-0.55	1	1	0	600	600	0
6/18/2024 22:47	52402	GRPA_T2	3	0	-3	0.63	0	-0.63	0	0	0	0	0	0	0	0
6/18/2024 22:47	46901	MNTG_T2	0	0	0	0	0	0	0.68	0.65	1	1	0	1200	1200	0
6/18/2024 22:47	42901	MIDD_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/18/2024 22:47	56803	BENV_T1	4	4	0	2.35	2.48	0.13	0	0	0	0	0	0	0	0
6/18/2024 22:47	40901	JESH_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/18/2024 22:47	45402	WBLO_T2	35	1	-34	0.22	0.4	0.18	-1.17	-1.21	1	1	0	900	900	0
6/18/2024 22:47	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/18/2024 22:47	52403	GRPA_T2	15	24	9	0.59	0.75	0.16	-0.19	-0.08	0	0	0	0	0	0
6/18/2024 22:47	40902	JESH_T1	0	1	1	0	0	0	-0.87	-0.73	1	1	0	600	600	0
6/18/2024 22:47	67204	TEHI_T2	0	0	0	0	0	0	-0.04	-0.07	0	0	0	0	0	0
6/18/2024 22:48	56803	BENV_T1	4	4	0	2.35	2.48	0.13	0	0	0	0	0	0	0	0
6/18/2024 22:48	43304	WATS_T2	17	6	-11	0.43	0.25	-0.18	-0.68	-0.71	0	0	0	0	0	0
6/18/2024 22:48	66504	SMAN_T2	0	0	0	0	0	0	-0.6	-0.62	1	1	0	1200	1200	0
6/18/2024 22:48	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/18/2024 22:48	52002	LING_T2	1	0	-1	0.2	0	-0.2	0.68	0.65	0	0	0	0	0	0
6/18/2024 22:48	45303	WBER_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/18/2024 22:48	47104	MARL_T1	15	4	-11	0.39	0	-0.39	0	0	0	0	0	0	0	0
6/18/2024 22:48	56801	BENV_T1	9	8	-1	0.79	0.99	0.2	-0.76	-0.83	2	2	0	1200	1200	0
6/18/2024 22:48	42201	SHEN_T2	0	0	0	0	0	0	0.21	0.18	1	1	0	600	600	0
6/18/2024 22:48	47101	MARL_T1	41	32	-9	0.85	0.49	-0.36	-1.78	-1.77	1	1	0	600	600	0
6/18/2024 22:48	45501	DERR_T2	0	0	0	0	0	0	0.17	0.26	2	2	0	1800	1800	0
6/18/2024 22:48	45302	WBER_T2	0	0	0	0	0	0	1.52	1.58	0	0	0	0	0	0
6/18/2024 22:49	45602	WOOL_T1	16	45	29	0.36	0.38	0.02	0.63	0.57	0	0	0	0	0	0
6/18/2024 22:49	52403	GRPA_T2	15	24	9	0.59	0.75	0.16	-0.19	-0.08	0	0	0	0	0	0
6/18/2024 22:49	44905	SCOT_T1	2	2	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
6/18/2024 22:49	47401	PENS_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
6/18/2024 22:49	52402	GRPA_T2	3	0	-3	0.63	0	-0.63	0	0	0	0	0	0	0	0
6/18/2024 22:49	42901	MIDD_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/18/2024 22:49	42902	MIDD_T2	1	0	-1	0.2	0	-0.2	-0.47	-0.55	1	1	0	600	600	0
6/18/2024 22:50	45501	DERR_T2	0	0	0	0	0	0	0.17	0.26	2	2	0	1800	1800	0
6/18/2024 22:51	63401	HONY_T1	0	0	0	0	0	0	-0.17	-0.13	1	1	0	600	600	0
6/18/2024 22:51	46901	MNTG_T2	0	0	0	0	0	0	0.65	0.57	1	1	0	1200	1200	0
6/18/2024 22:51	49804	UNIV_T1	1	1	0	1.5	0.6	-0.9	1.04	0.98	0	0	0	0	0	0
6/18/2024 22:52	64305	LINC_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
6/18/2024 22:59	52002	LING_T2	1	0	-1	0.2	0	-0.2	0.65	0.59	0	0	0	0	0	0
6/18/2024 23:10	57401	SPAN_T1	0	3	3	0	0.2	0.2	-0.53	-0.57	1	1	0	600	600	0
6/18/2024 23:20	54201	PENN_T1	11	38	27	0.56	0.43	-0.13	0	0	0	0	0	0	0	0
6/18/2024 23:20	54203	PENN_T1	5	18	13	1.02	0.61	-0.41	0.7	0.7	0	0	0	0	0	0
6/18/2024 23:36	63304	GREE_T1	0	0	0	0	0	0	-1.25	-1.26	0	0	0	0	0	0
6/18/2024 23:38	53903	HALI_T2	0	2	2	0	0.2	0.2	-0.12	-0.11	0	0	0	0	0	0
6/18/2024 23:38	53902	HALI_T2	1	1	0	4.5	4.6	0.1	0	0	0	0	0	0	0	0
6/19/2024 1:26	65901	NAIR_T2	1	1	0	7.9	8.5	0.6	-1.28	-1.29	2	2	0	1500	1500	0
6/19/2024 1:55	40302	TAMA_T3	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
6/19/2024 1:55	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 5:05	64202	KINZ_T1	2	0	-2	0.2	0	-0.2	0.63	0.65	0	0	0	0	0	0
6/19/2024 5:05	64201	KINZ_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
6/19/2024 5:05	64204	KINZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/19/2024 5:09	56501	ROCK_T2	2	3	1	0.55	2	1.45	-1.05	-1.02	0	0	0	0	0	0
6/19/2024 5:10	13904	SEID_T1	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
6/19/2024 7:06	67401	WAKE_T2	437	422	-15	0.71	0.66	-0.05	0	0	0	0	0	0	0	0
6/19/2024 7:06	67402	WAKE_T2	7	6	-1	0.34	0.32	-0.02	1.38	1.39	0	0	0	0	0	0
6/19/2024 7:13	60802	BUCK_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
6/19/2024 7:18	55001	NEWP_T1	0	0	0	0	0	0	0.04	0.07	0	0	0	0	0	0
6/19/2024 7:18	55002	NEWP_T1	4	4	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
6/19/2024 7:23	15203	SFAR_T2	0	0	0	0	0	0	-0.95	-0.92	0	0	0	0	0	0
6/19/2024 7:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	2	0	-2	1800	0	-1800
6/19/2024 7:39	40502	CRES_T2	32	31	-1	0.66	0.61	-0.05	0.99	1.04	0	0	0	0	0	0
6/19/2024 7:39	40501	CRES_T2	22	19	-3	0.51	0.53	0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/19/2024 7:39	20401	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/19/2024 7:39	20403	ASHF_T2	0	0	0	0	0	0	0.85	0.92	0	0	0	0	0	0
6/19/2024 7:40	40502	CRES_T2	32	31	-1	0.66	0.61	-0.05	0.99	1.04	0	0	0	0	0	0
6/19/2024 7:40	40501	CRES_T2	22	19	-3	0.51	0.53	0.02	0	0	0	0	0	0	0	0
6/19/2024 7:40	46206	DANV_T2	69	72	3	0.54	0.57	0.03	2.87	2.9	1	1	0	1200	1200	0
6/19/2024 7:41	46206	DANV_T2	69	72	3	0.54	0.57	0.03	2.87	2.9	1	1	0	1200	1200	0
6/19/2024 7:42	40502	CRES_T2	32	31	-1	0.66	0.61	-0.05	0.99	1.04	0	0	0	0	0	0
6/19/2024 7:42	15203	SFAR_T2	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
6/19/2024 7:42	40501	CRES_T2	22	19	-3	0.51	0.53	0.02	0	0	0	0	0	0	0	0
6/19/2024 7:43	10707	CATA_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
6/19/2024 7:43	40501	CRES_T2	22	19	-3	0.51	0.53	0.02	0	0	0	0	0	0	0	0
6/19/2024 7:43	40502	CRES_T2	32	31	-1	0.66	0.61	-0.05	2.98	3.13	0	0	0	0	0	0
6/19/2024 7:44	41502	FAIR_T2	0	0	0	0	0	0	-0.47	-0.43	0	0	0	0	0	0
6/19/2024 7:44	40502	CRES_T2	32	31	-1	0.66	0.61	-0.05	3.97	4.18	0	0	0	0	0	0
6/19/2024 7:44	40501	CRES_T2	22	19	-3	0.51	0.53	0.02	0	0	0	0	0	0	0	0
6/19/2024 7:48	40601	PIGR_T1	9	35	26	0.13	0.18	0.05	0	0	0	0	0	0	0	0
6/19/2024 7:48	43202	MVIL_T2	0	1	1	0	0.3	0.3	-0.36	-0.35	0	0	0	0	0	0
6/19/2024 7:50	56501	ROCK_T2	1	4	3	0.8	0.4	-0.4	-0.95	-0.93	0	0	0	0	0	0
6/19/2024 7:54	14404	SSLA_T1	1	1	0	4.8	4.7	-0.1	0.12	0.13	0	0	0	0	0	0
6/19/2024 7:55	45502	DERR_T2	4	18	14	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/19/2024 7:55	45501	DERR_T2	1	4	3	0.2	0	-0.2	1.02	0.87	2	2	0	1800	1800	0
6/19/2024 8:10	45502	DERR_T2	3	48	45	0.7	0.66	-0.04	0	0	0	0	0	0	0	0
6/19/2024 8:10	20403	ASHF_T2	0	0	0	0	0	0	1.23	1.27	0	0	0	0	0	0
6/19/2024 8:10	45501	DERR_T2	0	14	14	0	0.13	0.13	0.87	1.03	2	2	0	1800	1800	0
6/19/2024 8:10	20401	ASHF_T2	0	4	4	0	0.6	0.6	0	0	0	0	0	0	0	0
6/19/2024 8:13	63803	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/19/2024 8:13	63804	HEMP_T1	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
6/19/2024 8:13	63802	HEMP_T1	0	0	0	0	0	0	0.38	0.41	0	0	0	0	0	0
6/19/2024 8:14	21203	ECAR_T1	0	0	0	0	0	0	-0.02	0.07	0	0	0	0	0	0
6/19/2024 8:15	58402	MORO_T1	0	0	0	0	0	0	-0.57	-0.56	3	3	0	2400	2400	0
6/19/2024 8:20	13503	MCMI_T2	0	1	1	0	0.1	0.1	-0.83	-0.84	0	0	0	0	0	0
6/19/2024 8:21	67401	WAKE_T2	347	285	-62	0.54	0.57	0.03	-0.46	-0.44	0	0	0	0	0	0
6/19/2024 8:21	67402	WAKE_T2	4	4	0	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
6/19/2024 8:22	16301	ALPA_T1	0	0	0	0	0	0	0.03	0.06	0	0	0	0	0	0
6/19/2024 8:23	67402	WAKE_T2	4	4	0	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
6/19/2024 8:23	67401	WAKE_T2	347	285	-62	0.54	0.57	0.03	-0.46	-0.44	0	0	0	0	0	0
6/19/2024 8:24	67402	WAKE_T2	4	4	0	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
6/19/2024 8:24	67401	WAKE_T2	347	285	-62	0.54	0.57	0.03	-0.46	-0.44	0	0	0	0	0	0
6/19/2024 8:25	67401	WAKE_T2	347	285	-62	0.54	0.57	0.03	0	0	0	0	0	0	0	0
6/19/2024 8:25	67402	WAKE_T2	4	4	0	0.23	0.18	-0.05	1.48	1.5	0	0	0	0	0	0
6/19/2024 8:26	41502	FAIR_T2	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
6/19/2024 8:26	56802	BENV_T2	1	1	0	0.5	0.9	0.4	-0.93	-0.9	0	0	0	0	0	0
6/19/2024 8:28	56802	BENV_T2	1	1	0	0.5	0.9	0.4	-0.93	-0.9	0	0	0	0	0	0
6/19/2024 8:28	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 8:29	65205	PRIN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/19/2024 8:30	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 8:30	56802	BENV_T2	1	1	0	0.9	0.9	0	-0.93	-0.9	0	0	0	0	0	0
6/19/2024 8:30	10705	CATA_T2	0	0	0	0	0	0	-0.78	-0.81	0	0	0	0	0	0
6/19/2024 8:31	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 8:32	56802	BENV_T2	1	1	0	0.9	0.9	0	-0.93	-0.9	0	0	0	0	0	0
6/19/2024 8:32	58006	WCAR_T2	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
6/19/2024 8:32	52004	LING_T2	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
6/19/2024 8:32	58401	MORO_T1	0	0	0	0	0	0	-1.06	-1.05	2	2	0	1200	1200	0
6/19/2024 8:33	58401	MORO_T1	0	0	0	0	0	0	-1.06	-1.05	2	2	0	1200	1200	0
6/19/2024 8:35	15204	SFAR_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
6/19/2024 8:35	40501	CRES_T2	22	16	-6	0.47	0.54	0.07	0	0	0	0	0	0	0	0
6/19/2024 8:35	23401	HONE_T2	10	55	45	0.36	0.52	0.16	0.71	0.79	0	0	0	0	0	0
6/19/2024 8:35	60305	TWVA_T2	0	0	0	0	0	0	-1.25	-1.28	2	2	0	2400	2400	0
6/19/2024 8:35	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 8:35	20401	ASHF_T2	4	2	-2	0.48	0.5	0.02	0.2	0.23	0	0	0	0	0	0
6/19/2024 8:35	40502	CRES_T2	29	31	2	0.73	0.64	-0.09	0.55	0.57	0	0	0	0	0	0
6/19/2024 8:35	60301	TWVA_T2	1	0	-1	3	0	-3	0	0	0	0	0	0	0	0
6/19/2024 8:36	48302	ORWI_T2	111	106	-5	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
6/19/2024 8:36	53502	EVIL_T2	2	5	3	1.35	0.9	-0.45	0.43	0.55	2	2	0	1200	1200	0
6/19/2024 8:36	23001	SAJO_T1	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
6/19/2024 8:36	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 8:36	48303	ORWI_T2	3	2	-1	0.2	0.25	0.05	1.33	1.35	0	0	0	0	0	0
6/19/2024 8:36	53501	EVIL_T2	2	1	-1	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
6/19/2024 8:37	45501	DERR_T2	13	6	-7	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
6/19/2024 8:37	45502	DERR_T2	19	18	-1	0.61	0.66	0.05	0.08	0.08	0	0	0	0	0	0
6/19/2024 8:37	56501	ROCK_T2	3	0	-3	0.23	0	-0.23	-0.81	-0.77	0	0	0	0	0	0
6/19/2024 8:38	67401	WAKE_T2	267	272	5	0.56	0.54	-0.02	0	0	0	0	0	0	0	0
6/19/2024 8:38	67402	WAKE_T2	4	2	-2	0.18	0.2	0.02	1.5	1.52	0	0	0	0	0	0
6/19/2024 8:38	67605	WARW_T1	0	0	0	0	0	0	-0.8	-0.78	0	0	0	0	0	0
6/19/2024 8:39	56501	ROCK_T2	3	0	-3	0.23	0	-0.23	-0.81	-0.77	0	0	0	0	0	0
6/19/2024 8:39	43304	WATS_T2	3	2	-1	0.43	0	-0.43	-0.57	-0.57	1	1	0	600	600	0
6/19/2024 8:39	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 8:39	40101	HUNT_T2	37	43	6	0.45	0.34	-0.11	-0.38	-0.33	0	0	0	0	0	0
6/19/2024 8:40	55102	WERT_T2	0	0	0	0	0	0	-0.08	0.03	1	1	0	600	600	0
6/19/2024 8:41	11102	EGYP_T1	1	1	0	0.3	0.1	-0.2	0.01	0.07	0	0	0	0	0	0
6/19/2024 8:41	11101	EGYP_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
6/19/2024 8:41	40801	EXCH_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
6/19/2024 8:41	40802	EXCH_T2	1	1	0	0.4	0.7	0.3	0.12	-0.06	0	0	0	0	0	0
6/19/2024 8:42	48302	ORWI_T2	111	106	-5	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
6/19/2024 8:42	40501	CRES_T2	22	16	-6	0.47	0.54	0.07	0	0	0	0	0	0	0	0
6/19/2024 8:42	40802	EXCH_T2	1	1	0	0.4	0.7	0.3	0.12	-0.06	0	0	0	0	0	0
6/19/2024 8:42	40801	EXCH_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
6/19/2024 8:42	15203	SFAR_T2	0	0	0	0	0	0	-0.8	-0.76	0	0	0	0	0	0
6/19/2024 8:42	48303	ORWI_T2	3	2	-1	0.2	0.25	0.05	1.35	1.37	0	0	0	0	0	0
6/19/2024 8:42	40502	CRES_T2	29	31	2	0.73	0.64	-0.09	0.57	0.6	0	0	0	0	0	0
6/19/2024 8:42	41502	FAIR_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
6/19/2024 8:43	10705	CATA_T2	0	0	0	0	0	0	-0.81	-0.76	0	0	0	0	0	0
6/19/2024 8:43	47001	HUGH_T2	0	0	0	0	0	0	-1.13	-1.1	1	1	0	900	900	0
6/19/2024 8:45	40802	EXCH_T2	1	1	0	0.3	0.8	0.5	0.12	-0.06	0	0	0	0	0	0
6/19/2024 8:45	40801	EXCH_T2	2	4	2	0.15	0.23	0.08	0	0	0	0	0	0	0	0
6/19/2024 8:46	40801	EXCH_T2	2	4	2	0.15	0.23	0.08	0	0	0	0	0	0	0	0
6/19/2024 8:46	67103	SPRI_T1	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
6/19/2024 8:46	40802	EXCH_T2	1	1	0	0.3	0.8	0.5	0.12	-0.06	0	0	0	0	0	0
6/19/2024 8:47	63804	HEMP_T1	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
6/19/2024 8:47	63803	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/19/2024 8:47	63802	HEMP_T1	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
6/19/2024 8:47	47001	HUGH_T2	0	1	1	0	0	0	-1.13	-1.1	1	1	0	900	900	0
6/19/2024 8:49	44601	SALE_T2	0	0	0	0	0	0	1.07	0.5	1	1	0	600	600	0
6/19/2024 8:49	60501	NMAN_T2	3	3	0	3.97	3.9	-0.07	0	0	0	0	0	0	0	0
6/19/2024 8:49	60502	NMAN_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
6/19/2024 8:50	57103	SPHI_T2	0	0	0	0	0	0	-0.59	-0.56	1	1	0	600	600	0
6/19/2024 8:50	57104	SPHI_T2	2	2	0	3.65	0.9	-2.75	0	0	0	0	0	0	0	0
6/19/2024 8:50	57106	SPHI_T2	3	3	0	1.17	0.93	-0.24	0	0	0	0	0	0	0	0
6/19/2024 8:51	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.7	0	0	0	0	0	0
6/19/2024 8:51	60502	NMAN_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
6/19/2024 8:51	60501	NMAN_T2	3	3	0	3.97	3.9	-0.07	0	0	0	0	0	0	0	0
6/19/2024 8:52	57106	SPHI_T2	3	3	0	1.17	0.93	-0.24	0	0	0	0	0	0	0	0
6/19/2024 8:52	57103	SPHI_T2	0	0	0	0	0	0	-0.56	-0.53	1	1	0	600	600	0
6/19/2024 8:52	57104	SPHI_T2	2	2	0	3.65	0.9	-2.75	0	0	0	0	0	0	0	0
6/19/2024 8:53	57106	SPHI_T2	3	3	0	1.17	0.93	-0.24	0	0	0	0	0	0	0	0
6/19/2024 8:53	57103	SPHI_T2	0	0	0	0	0	0	-0.56	-0.53	1	1	0	600	600	0
6/19/2024 8:53	57104	SPHI_T2	2	2	0	3.65	0.9	-2.75	0	0	0	0	0	0	0	0
6/19/2024 8:54	67603	WARW_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
6/19/2024 8:54	44601	SALE_T2	0	0	0	0	0	0	0.5	0.59	1	1	0	600	600	0
6/19/2024 8:55	44801	EDAN_T2	1	1	0	0.4	0	-0.4	0.91	0.95	0	0	0	0	0	0
6/19/2024 8:56	44801	EDAN_T2	1	1	0	0.4	0	-0.4	0.91	0.95	0	0	0	0	0	0
6/19/2024 8:57	52403	GRPA_T2	2	8	6	0.25	1	0.75	0	0	0	0	0	0	0	0
6/19/2024 8:57	52402	GRPA_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/19/2024 8:57	52404	GRPA_T2	0	0	0	0	0	0	0.9	0.56	0	0	0	0	0	0
6/19/2024 8:57	44801	EDAN_T2	1	1	0	0.4	0	-0.4	0.91	0.95	0	0	0	0	0	0
6/19/2024 9:00	52404	GRPA_T2	0	0	0	0	0	0	0.9	0.56	0	0	0	0	0	0
6/19/2024 9:00	52402	GRPA_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/19/2024 9:00	52403	GRPA_T2	8	15	7	0.7	1.08	0.38	0	0	0	0	0	0	0	0
6/19/2024 9:00	40101	HUNT_T2	43	142	99	0.39	0.43	0.04	-0.16	-0.1	0	0	0	0	0	0
6/19/2024 9:02	48302	ORWI_T2	61	2	-59	0.22	2	1.78	0	0	0	0	0	0	0	0
6/19/2024 9:02	48303	ORWI_T2	1	1	0	0.3	0.2	-0.1	1.37	1.4	0	0	0	0	0	0
6/19/2024 9:06	67605	WARW_T1	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
6/19/2024 9:07	41901	REED_T1	8	8	0	0.28	0.29	0.01	0	0	0	0	0	0	0	0
6/19/2024 9:07	15703	TANN_T2	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
6/19/2024 9:07	15702	TANN_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
6/19/2024 9:07	41902	REED_T1	0	0	0	0	0	0	1.09	1.17	0	0	0	0	0	0
6/19/2024 9:08	67605	WARW_T1	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
6/19/2024 9:09	15703	TANN_T2	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
6/19/2024 9:09	15702	TANN_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
6/19/2024 9:11	44801	EDAN_T2	0	1	1	0	0.5	0.5	0.95	0.96	0	0	0	0	0	0
6/19/2024 9:18	48302	ORWI_T2	2	2	0	2	1.75	-0.25	0	0	0	0	0	0	0	0
6/19/2024 9:18	43202	MVIL_T2	1	1	0	0.5	0.3	-0.2	-0.29	-0.28	0	0	0	0	0	0
6/19/2024 9:18	48303	ORWI_T2	1	1	0	0.2	0.2	0	1.4	1.43	0	0	0	0	0	0
6/19/2024 9:20	43202	MVIL_T2	1	1	0	0.5	0.3	-0.2	-0.29	-0.28	0	0	0	0	0	0
6/19/2024 9:23	67201	TEHI_T1	4	21	17	0.55	0.64	0.09	0	0	0	0	0	0	0	0
6/19/2024 9:23	67203	TEHI_T1	0	12	12	0	0.45	0.45	2.12	2.12	4	4	0	3000	3000	0
6/19/2024 9:24	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 9:24	56802	BENV_T2	1	1	0	0.5	0.5	0	-0.81	-0.78	0	0	0	0	0	0
6/19/2024 9:24	43304	WATS_T2	0	0	0	0	0	0	-0.59	-0.59	1	1	0	600	600	0
6/19/2024 9:27	10805	CHHI_T2	10	17	7	1.32	1.16	-0.16	-0.15	-0.16	1	1	0	600	600	0
6/19/2024 9:31	56802	BENV_T2	1	1	0	0.1	0.5	0.4	-0.81	-0.78	0	0	0	0	0	0
6/19/2024 9:31	40101	HUNT_T2	140	36	-104	0.5	0.43	-0.07	-0.08	-0.44	0	0	0	0	0	0
6/19/2024 9:37	56802	BENV_T2	1	1	0	0.1	0.5	0.4	-0.78	-0.75	0	0	0	0	0	0
6/19/2024 9:39	46206	DANV_T2	63	40	-23	0.81	0.46	-0.35	0	0	0	0	0	0	0	0
6/19/2024 9:39	46204	DANV_T2	1	1	0	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
6/19/2024 9:39	46203	DANV_T2	0	0	0	0	0	0	-1.46	-1.44	0	0	0	0	0	0
6/19/2024 9:40	10805	CHHI_T2	15	20	5	1.17	1.73	0.56	-0.16	-0.08	1	1	0	600	600	0
6/19/2024 9:43	61803	EELI_T2	0	0	0	0	0	0	0.79	0.83	1	1	0	600	600	0
6/19/2024 9:43	46203	DANV_T2	0	0	0	0	0	0	-1.46	-1.44	0	0	0	0	0	0
6/19/2024 9:43	46206	DANV_T2	63	40	-23	0.81	0.46	-0.35	0	0	0	0	0	0	0	0
6/19/2024 9:43	46204	DANV_T2	1	1	0	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
6/19/2024 9:43	61801	EELI_T2	0	0	0	0	0	0	-0.17	-0.09	1	1	0	600	600	0
6/19/2024 9:45	64904	MILL_T1	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/19/2024 9:45	13503	MCMI_T2	0	73	73	0	0.24	0.24	0.16	-0.76	0	0	0	0	0	0
6/19/2024 9:45	47101	MARL_T1	82	50	-32	0.86	0.63	-0.23	-0.76	-1.53	1	1	0	600	600	0
6/19/2024 9:45	47104	MARL_T1	7	12	5	0.71	0.27	-0.44	0	0	0	0	0	0	0	0
6/19/2024 9:46	47101	MARL_T1	82	50	-32	0.86	0.63	-0.23	-0.76	-1.53	1	1	0	600	600	0
6/19/2024 9:46	60501	NMAN_T2	3	3	0	3.7	3.9	0.2	0	0	0	0	0	0	0	0
6/19/2024 9:46	47104	MARL_T1	7	12	5	0.71	0.27	-0.44	0	0	0	0	0	0	0	0
6/19/2024 9:46	60502	NMAN_T2	0	0	0	0	0	0	0.39	0.53	0	0	0	0	0	0
6/19/2024 9:47	47102	MARL_T2	45	32	-13	0.52	0.4	-0.12	0	0	0	0	0	0	0	0
6/19/2024 9:47	64204	KINZ_T1	1	1	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
6/19/2024 9:47	64201	KINZ_T1	0	0	0	0	0	0	0.03	0.03	4	4	0	2100	2100	0
6/19/2024 9:47	64203	KINZ_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
6/19/2024 9:47	47103	MARL_T2	80	61	-19	0.59	0.49	-0.1	0.05	0.06	0	0	0	0	0	0
6/19/2024 9:47	13503	MCMI_T2	0	73	73	0	0.24	0.24	0.16	-0.76	0	0	0	0	0	0
6/19/2024 9:48	47101	MARL_T1	82	50	-32	0.86	0.63	-0.23	-3.05	-6.11	4	4	0	2400	2400	0
6/19/2024 9:48	47104	MARL_T1	7	12	5	0.71	0.27	-0.44	0	0	0	0	0	0	0	0
6/19/2024 9:48	60501	NMAN_T2	3	3	0	3.7	3.9	0.2	0	0	0	0	0	0	0	0
6/19/2024 9:48	60502	NMAN_T2	0	0	0	0	0	0	0.39	0.53	0	0	0	0	0	0
6/19/2024 9:48	39601	LNFD_T1	1	2	1	3.4	2.9	-0.5	0	0	1	1	0	900	900	0
6/19/2024 9:49	64101	REFR_T1	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
6/19/2024 9:49	13503	MCMI_T2	0	73	73	0	0.24	0.24	0.16	-0.76	0	0	0	0	0	0
6/19/2024 9:49	47102	MARL_T2	45	32	-13	0.52	0.4	-0.12	0	0	0	0	0	0	0	0
6/19/2024 9:49	47103	MARL_T2	80	61	-19	0.59	0.49	-0.1	0.05	0.06	0	0	0	0	0	0
6/19/2024 9:50	47102	MARL_T2	45	32	-13	0.52	0.4	-0.12	0	0	0	0	0	0	0	0
6/19/2024 9:50	47103	MARL_T2	80	61	-19	0.59	0.49	-0.1	0.05	0.06	0	0	0	0	0	0
6/19/2024 9:52	24902	WHHA_T1	1	1	0	0.4	1.5	1.1	0.77	0.78	0	0	0	0	0	0
6/19/2024 9:53	61102	BERK_T5	0	0	0	0	0	0	2.24	2.25	3	3	0	900	900	0
6/19/2024 9:54	46204	DANV_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
6/19/2024 9:54	46206	DANV_T2	34	43	9	0.46	0.52	0.06	2.98	3	1	1	0	1200	1200	0
6/19/2024 9:54	61102	BERK_T5	0	0	0	0	0	0	0.75	0.75	1	1	0	300	300	0
6/19/2024 9:55	61102	BERK_T5	0	0	0	0	0	0	2.24	2.25	3	3	0	900	900	0
6/19/2024 9:55	24902	WHHA_T1	1	1	0	0.4	1.5	1.1	0.77	0.78	0	0	0	0	0	0
6/19/2024 9:59	44801	EDAN_T2	1	1	0	1.2	0.7	-0.5	0.97	0.98	0	0	0	0	0	0
6/19/2024 10:00	58001	WCAR_T1	2	3	1	0.1	0.2	0.1	0.3	0.33	0	0	0	0	0	0
6/19/2024 10:00	53502	EVIL_T2	6	13	7	1.02	0.84	-0.18	0.76	0.78	2	2	0	1200	1200	0
6/19/2024 10:00	47102	MARL_T2	31	35	4	0.4	0.44	0.04	0	0	0	0	0	0	0	0
6/19/2024 10:00	66504	SMAN_T2	0	0	0	0	0	0	-1.64	-1.06	3	3	0	3600	3600	0
6/19/2024 10:00	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/19/2024 10:00	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/19/2024 10:00	60504	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/19/2024 10:00	41903	REED_T1	4	3	-1	0.18	0.25	0.07	0	0	0	0	0	0	0	0
6/19/2024 10:00	20601	GRWO_T2	11	78	67	0.5	0.47	-0.03	0.94	1.01	0	0	0	0	0	0
6/19/2024 10:00	67502	WEWI_T2	0	0	0	0	0	0	-0.51	-0.53	1	1	0	900	900	0
6/19/2024 10:00	40505	CRES_T1	3	4	1	0.7	1.03	0.33	0.83	0.86	0	0	0	0	0	0
6/19/2024 10:00	13302	ORVI_T2	0	1	1	0	0.2	0.2	1.62	0.48	0	0	0	0	0	0
6/19/2024 10:00	47103	MARL_T2	60	63	3	0.48	0.52	0.04	0.18	0.22	0	0	0	0	0	0
6/19/2024 10:00	23202	HIRU_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
6/19/2024 10:00	59202	THOM_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 10:00	60501	NMAN_T2	3	3	0	3.9	4.03	0.13	0	0	0	0	0	0	0	0
6/19/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	1.06	1.14	0	0	0	0	0	0
6/19/2024 10:00	40504	CRES_T1	13	13	0	0.74	0.67	-0.07	0	0	0	0	0	0	0	0
6/19/2024 10:00	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/19/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
6/19/2024 10:00	40503	CRES_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 10:00	41902	REED_T1	0	3	3	0	0.2	0.2	1.3	1.35	0	0	0	0	0	0
6/19/2024 10:00	58003	WCAR_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
6/19/2024 10:00	10705	CATA_T2	1	1	0	0.2	0.3	0.1	-0.54	-0.55	0	0	0	0	0	0
6/19/2024 10:07	59202	THOM_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 10:08	20403	ASHF_T2	1	3	2	0.1	0.1	0	1.44	1.58	0	0	0	0	0	0
6/19/2024 10:08	20401	ASHF_T2	4	4	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
6/19/2024 10:08	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 10:09	20401	ASHF_T2	4	4	0	0.75	0.55	-0.2	0.49	0.6	0	0	0	0	0	0
6/19/2024 10:09	10805	CHHI_T2	17	30	13	1.34	1.05	-0.29	0.01	-0.11	1	1	0	600	600	0
6/19/2024 10:09	20403	ASHF_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
6/19/2024 10:09	29402	BELT_T1	1	4	3	9.5	2.53	-6.97	0	0	0	0	0	0	0	0
6/19/2024 10:09	29401	BELT_T1	37	10	-27	0.19	0.17	-0.02	0	0	1	1	0	900	900	0
6/19/2024 10:09	10801	CHHI_T1	0	2	2	0	0.8	0.8	-0.65	-0.58	2	2	0	1500	1500	0
6/19/2024 10:09	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 10:10	20403	ASHF_T2	1	3	2	0.1	0.1	0	1.44	1.58	0	0	0	0	0	0
6/19/2024 10:10	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 10:10	10801	CHHI_T1	0	2	2	0	0.8	0.8	-0.65	-0.58	2	2	0	1500	1500	0
6/19/2024 10:10	20401	ASHF_T2	4	4	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
6/19/2024 10:10	29401	BELT_T1	37	10	-27	0.19	0.17	-0.02	0	0	1	1	0	900	900	0
6/19/2024 10:10	29402	BELT_T1	1	4	3	9.5	2.53	-6.97	0	0	0	0	0	0	0	0
6/19/2024 10:10	21203	ECAR_T1	0	1	1	0	0	0	0.13	0.13	0	0	0	0	0	0
6/19/2024 10:11	20401	ASHF_T2	4	4	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
6/19/2024 10:11	20403	ASHF_T2	1	3	2	0.1	0.1	0	1.44	1.58	0	0	0	0	0	0
6/19/2024 10:11	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 10:13	45802	HEGI_T2	45	138	93	0.47	0.63	0.16	1.27	1.19	1	1	0	300	300	0
6/19/2024 10:13	40901	JESH_T1	3	4	1	1.3	2.2	0.9	0	0	0	0	0	0	0	0
6/19/2024 10:13	40902	JESH_T1	2	8	6	0.25	0.56	0.31	-0.44	-0.44	3	3	0	1800	1800	0
6/19/2024 10:14	40101	HUNT_T2	16	66	50	0.48	0.45	-0.03	-0.48	-0.47	0	0	0	0	0	0
6/19/2024 10:14	52402	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 10:14	52403	GRPA_T2	11	48	37	0.9	0.93	0.03	0	0	0	0	0	0	0	0
6/19/2024 10:14	52404	GRPA_T2	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
6/19/2024 10:15	45502	DERR_T2	23	21	-2	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
6/19/2024 10:15	44801	EDAN_T2	1	1	0	0.7	1.2	0.5	0.98	0.99	0	0	0	0	0	0
6/19/2024 10:15	45501	DERR_T2	9	14	5	0.49	0.6	0.11	1.29	1.22	2	2	0	1800	1800	0
6/19/2024 10:15	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 10:16	13503	MCMI_T2	8	57	49	0.33	0.26	-0.07	-1.48	-1.45	0	0	0	0	0	0
6/19/2024 10:16	52403	GRPA_T2	19	47	28	0.87	0.68	-0.19	0	0	0	0	0	0	0	0
6/19/2024 10:16	52402	GRPA_T2	0	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0
6/19/2024 10:16	52404	GRPA_T2	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
6/19/2024 10:16	23401	HONE_T2	195	197	2	0.73	0.58	-0.15	0.94	0.82	0	0	0	0	0	0
6/19/2024 10:16	23402	HONE_T2	5	0	-5	0.72	0	-0.72	0	0	0	0	0	0	0	0
6/19/2024 10:16	52002	LING_T2	0	5	5	0	0	0	0.6	0.65	0	0	0	0	0	0
6/19/2024 10:17	52002	LING_T2	0	5	5	0	0	0	0.6	0.65	0	0	0	0	0	0
6/19/2024 10:17	45802	HEGI_T2	138	53	-85	0.67	0.65	-0.02	1.27	1.19	1	1	0	300	300	0
6/19/2024 10:18	44601	SALE_T2	0	0	0	0	0	0	0.5	0.66	1	1	0	600	600	0
6/19/2024 10:18	47401	PENS_T1	6	16	10	0.52	0.58	0.06	0.53	0.57	0	0	0	0	0	0
6/19/2024 10:18	47403	PENS_T1	0	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0
6/19/2024 10:19	56501	ROCK_T2	2	5	3	0.7	0.45	-0.25	-0.59	-0.55	0	0	0	0	0	0
6/19/2024 10:19	13503	MCMI_T2	8	57	49	0.33	0.26	-0.07	-0.74	-0.73	0	0	0	0	0	0
6/19/2024 10:19	47401	PENS_T1	6	16	10	0.52	0.58	0.06	0.53	0.57	0	0	0	0	0	0
6/19/2024 10:19	47403	PENS_T1	0	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0
6/19/2024 10:20	67203	TEHI_T1	9	10	1	0.38	0.67	0.29	2.19	2.3	4	4	0	3000	3000	0
6/19/2024 10:20	47401	PENS_T1	6	16	10	0.52	0.58	0.06	0.53	0.57	0	0	0	0	0	0
6/19/2024 10:20	47403	PENS_T1	0	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0
6/19/2024 10:20	67201	TEHI_T1	12	28	16	0.49	0.53	0.04	0	0	0	0	0	0	0	0
6/19/2024 10:21	17002	RIRO_T2	2	2	0	0.75	0.75	0	1.03	1.03	0	0	0	0	0	0
6/19/2024 10:21	56501	ROCK_T2	2	5	3	0.7	0.45	-0.25	-0.59	-0.55	0	0	0	0	0	0
6/19/2024 10:22	67804	WLAN_T1	3	8	5	0.37	0.43	0.06	0	0	0	0	0	0	0	0
6/19/2024 10:22	40602	PIGR_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/19/2024 10:22	43304	WATS_T2	2	4	2	1	0	-1	-0.5	-0.38	1	1	0	600	600	0
6/19/2024 10:22	56501	ROCK_T2	2	5	3	0.7	0.45	-0.25	-0.55	-0.52	0	0	0	0	0	0
6/19/2024 10:22	43302	WATS_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/19/2024 10:22	47401	PENS_T1	6	16	10	0.52	0.58	0.06	1.14	0.59	0	0	0	0	0	0
6/19/2024 10:22	47403	PENS_T1	0	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0
6/19/2024 10:22	67801	WLAN_T1	0	1	1	0	0.2	0.2	0.34	0.35	0	0	0	0	0	0
6/19/2024 10:22	40601	PIGR_T1	3	3	0	0.23	0.33	0.1	-0.04	-0.05	0	0	0	0	0	0
6/19/2024 10:23	44601	SALE_T2	0	0	0	0	0	0	0.66	0.62	1	1	0	600	600	0
6/19/2024 10:23	67903	WNHO_T1	0	0	0	0	0	0	1.4	1.39	1	1	0	1200	1200	0
6/19/2024 10:23	61102	BERK_T5	0	0	0	0	0	0	1.52	1.79	2	2	0	600	600	0
6/19/2024 10:23	56501	ROCK_T2	2	5	3	0.7	0.45	-0.25	-1.11	-1.03	0	0	0	0	0	0
6/19/2024 10:24	61102	BERK_T5	0	0	0	0	0	0	0.76	0.89	1	1	0	300	300	0
6/19/2024 10:24	56501	ROCK_T2	2	5	3	0.7	0.45	-0.25	-0.55	-0.52	0	0	0	0	0	0
6/19/2024 10:24	56802	BENV_T2	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
6/19/2024 10:25	56803	BENV_T1	1	4	3	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
6/19/2024 10:25	58001	WCAR_T1	3	1	-2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/19/2024 10:25	43304	WATS_T2	2	4	2	1	0	-1	-0.5	-0.38	1	1	0	600	600	0
6/19/2024 10:25	43302	WATS_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/19/2024 10:25	56802	BENV_T2	0	0	0	0	0	0	-1.43	-1.41	0	0	0	0	0	0
6/19/2024 10:25	56801	BENV_T1	0	2	2	0	0.75	0.75	-0.53	-0.48	2	2	0	1200	1200	0
6/19/2024 10:25	58003	WCAR_T1	1	1	0	0.5	0.4	-0.1	1.16	1.2	2	2	0	1200	1200	0
6/19/2024 10:26	10801	CHHI_T1	2	4	2	0.25	0.98	0.73	-0.58	-1.15	2	3	1	1500	2100	600
6/19/2024 10:27	56802	BENV_T2	0	0	0	0	0	0	-1.43	-1.41	0	0	0	0	0	0
6/19/2024 10:27	61102	BERK_T5	0	0	0	0	0	0	1.52	1.79	2	2	0	600	600	0
6/19/2024 10:28	11804	FRAN_T1	0	11	11	0	0.2	0.2	1.8	1.87	0	0	0	0	0	0
6/19/2024 10:29	64201	KINZ_T1	0	3	3	0	0.15	0.15	0.12	0.08	4	4	0	2100	2100	0
6/19/2024 10:29	64203	KINZ_T1	1	2	1	0.9	1	0.1	0	0	0	0	0	0	0	0
6/19/2024 10:29	64204	KINZ_T1	1	2	1	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
6/19/2024 10:30	52403	GRPA_T2	46	27	-19	0.88	0.84	-0.04	0	0.01	0	0	0	0	0	0
6/19/2024 10:30	52402	GRPA_T2	2	3	1	1.65	0.6	-1.05	0	0	0	0	0	0	0	0
6/19/2024 10:31	64204	KINZ_T1	1	2	1	0.8	0.8	0	0	0	0	0	0	0	0	0
6/19/2024 10:31	42901	MIDD_T2	2	3	1	0.45	0.45	0	0	0	0	0	0	0	0	0
6/19/2024 10:31	64201	KINZ_T1	2	5	3	0.15	0.23	0.08	0	0	0	0	0	0	0	0
6/19/2024 10:31	42903	MIDD_T2	0	0	0	0	0	0	1.26	1.47	1	1	0	1200	1200	0
6/19/2024 10:31	52002	LING_T2	1	4	3	0.1	0.1	0	0.65	0.72	0	0	0	0	0	0
6/19/2024 10:31	64203	KINZ_T1	2	2	0	1	1.2	0.2	0.69	0.66	3	3	0	2100	2100	0
6/19/2024 10:31	42902	MIDD_T2	1	8	7	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/19/2024 10:32	40602	PIGR_T1	1	1	0	0.4	0.6	0.2	-0.01	-0.01	0	0	0	0	0	0
6/19/2024 10:32	40601	PIGR_T1	2	3	1	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
6/19/2024 10:32	52002	LING_T2	1	4	3	0.1	0.1	0	0.65	0.72	0	0	0	0	0	0
6/19/2024 10:33	45502	DERR_T2	20	17	-3	0.41	0.4	-0.01	0.28	0.3	0	0	0	0	0	0
6/19/2024 10:33	45501	DERR_T2	12	10	-2	0.49	0.58	0.09	1.22	1.3	2	2	0	1800	1800	0
6/19/2024 10:34	54203	PENN_T1	5	5	0	0.32	0.54	0.22	0	0	0	0	0	0	0	0
6/19/2024 10:34	25503	MADI_T1	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
6/19/2024 10:34	12301	LANA_T2	0	2	2	0	0	0	-0.79	-0.76	1	1	0	1200	1200	0
6/19/2024 10:34	54201	PENN_T1	8	4	-4	0.69	1.25	0.56	-1.56	-1.52	0	0	0	0	0	0
6/19/2024 10:34	12304	LANA_T2	2	3	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/19/2024 10:34	12305	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 10:34	25501	MADI_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
6/19/2024 10:34	48301	ORWI_T1	14	21	7	0.84	0.69	-0.15	0.82	0.89	0	0	0	0	0	0
6/19/2024 10:34	64101	REFR_T1	0	3	3	0	0	0	0.37	0.39	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/19/2024 10:35	67605	WARW_T1	1	1	0	0.4	0.7	0.3	-0.62	-0.6	0	0	0	0	0	0
6/19/2024 10:36	64101	REFR_T1	0	3	3	0	0	0	2.33	2.41	0	0	0	0	0	0
6/19/2024 10:37	24901	WHHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/19/2024 10:37	24902	WHHA_T1	1	1	0	1.8	2.3	0.5	0.8	0.81	0	0	0	0	0	0
6/19/2024 10:37	64101	REFR_T1	0	3	3	0	0	0	1.17	1.21	0	0	0	0	0	0
6/19/2024 10:38	67605	WARW_T1	1	1	0	0.4	0.7	0.3	-0.6	-0.57	0	0	0	0	0	0
6/19/2024 10:39	24901	WHHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/19/2024 10:39	58006	WCAR_T2	0	0	0	0	0	0	-0.47	-0.45	0	0	0	0	0	0
6/19/2024 10:39	24902	WHHA_T1	1	1	0	1.8	2.3	0.5	0.8	0.81	0	0	0	0	0	0
6/19/2024 10:39	58002	WCAR_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/19/2024 10:39	67605	WARW_T1	1	1	0	0.4	0.7	0.3	-0.6	-0.57	0	0	0	0	0	0
6/19/2024 10:39	67603	WARW_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
6/19/2024 10:40	61102	BERK_T5	0	0	0	0	0	0	0.89	0.9	1	1	0	300	300	0
6/19/2024 10:41	61102	BERK_T5	0	0	0	0	0	0	0.89	0.9	1	1	0	300	300	0
6/19/2024 10:42	44801	EDAN_T2	1	1	0	1.2	2.1	0.9	1.99	2.15	0	0	0	0	0	0
6/19/2024 10:42	61102	BERK_T5	0	0	0	0	0	0	1.79	1.8	2	2	0	600	600	0
6/19/2024 10:43	10805	OHHI_T2	16	49	33	0.4	0.62	0.22	0.01	0.06	1	1	0	600	600	0
6/19/2024 10:44	52402	GRPA_T2	2	3	1	1.65	0.6	-1.05	0	0	0	0	0	0	0	0
6/19/2024 10:44	52403	GRPA_T2	46	27	-19	0.88	0.84	-0.04	0.01	0.03	0	0	0	0	0	0
6/19/2024 10:44	40101	HUNT_T2	66	109	43	0.49	0.5	0.01	-0.45	-0.45	0	0	0	0	0	0
6/19/2024 10:47	53903	HALI_T2	3	3	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
6/19/2024 10:47	53901	HALI_T2	0	0	0	0	0	0	-0.91	-0.89	0	0	0	0	0	0
6/19/2024 10:47	53902	HALI_T2	1	2	1	4.4	2.45	-1.95	0	0	0	0	0	0	0	0
6/19/2024 10:48	65401	MARI_T1	9	9	0	2.03	1.41	-0.62	0	0	0	0	0	0	0	0
6/19/2024 10:48	42902	MIDD_T2	8	3	-5	0.5	0	-0.5	0.18	-0.04	2	2	0	900	900	0
6/19/2024 10:48	42901	MIDD_T2	3	4	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
6/19/2024 10:48	65402	MARI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/19/2024 10:49	65401	MARI_T1	9	9	0	2.03	1.41	-0.62	0	0	0	0	0	0	0	0
6/19/2024 10:49	65402	MARI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/19/2024 10:50	65402	MARI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/19/2024 10:50	65401	MARI_T1	9	9	0	2.03	1.41	-0.62	0	0	0	0	0	0	0	0
6/19/2024 10:51	67603	WARW_T1	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
6/19/2024 10:51	67605	WARW_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/19/2024 10:52	67605	WARW_T1	1	1	0	0.5	0.7	0.2	-0.57	-0.53	0	0	0	0	0	0
6/19/2024 10:52	16302	ALPA_T2	0	0	0	0	0	0	0.4	0.3	0	0	0	0	0	0
6/19/2024 10:53	67203	TEHI_T1	10	17	7	1.03	0.93	-0.1	0	0	0	0	0	0	0	0
6/19/2024 10:53	67201	TEHI_T1	21	30	9	0.59	0.47	-0.12	0.32	0.31	2	2	0	1500	1500	0
6/19/2024 10:54	16302	ALPA_T2	0	0	0	0	0	0	0.2	0.15	0	0	0	0	0	0
6/19/2024 10:55	16302	ALPA_T2	0	0	0	0	0	0	0.2	0.15	0	0	0	0	0	0
6/19/2024 10:55	67605	WARW_T1	1	1	0	0.5	0.7	0.2	-0.57	-0.53	0	0	0	0	0	0
6/19/2024 10:57	41801	GOCI_T2	0	3	3	0	0.83	0.83	0	0	1	1	0	900	900	0
6/19/2024 10:57	44801	EDAN_T2	1	1	0	2.1	1.7	-0.4	1.08	1.09	0	0	0	0	0	0
6/19/2024 10:59	63804	HEMP_T1	1	1	0	7.4	7.1	-0.3	0	0	0	0	0	0	0	0
6/19/2024 10:59	63803	HEMP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/19/2024 10:59	63802	HEMP_T1	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
6/19/2024 11:00	45801	HEGI_T1	0	0	0	0	0	0	0.84	0.73	1	1	0	900	900	0
6/19/2024 11:01	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/19/2024 11:01	41801	GOCI_T2	3	3	0	0.83	0.6	-0.23	0	0	1	1	0	900	900	0
6/19/2024 11:01	52403	GRPA_T2	14	30	16	0.92	1.12	0.2	0.03	0.15	0	0	0	0	0	0
6/19/2024 11:01	40101	HUNT_T2	62	82	20	0.52	0.48	-0.04	-0.45	-0.44	0	0	0	0	0	0
6/19/2024 11:01	52402	GRPA_T2	3	7	4	0.43	0	-0.43	0	0	0	0	0	0	0	0
6/19/2024 11:02	40101	HUNT_T2	62	82	20	0.52	0.48	-0.04	-0.45	-0.44	0	0	0	0	0	0
6/19/2024 11:03	52003	LING_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/19/2024 11:03	52001	LING_T1	0	0	0	0	0	0	0.8	0.83	0	0	0	0	0	0
6/19/2024 11:06	67401	WAKE_T2	39	45	6	0.19	0.25	0.06	-0.39	-0.51	0	0	0	0	0	0
6/19/2024 11:08	67402	WAKE_T2	0	0	0	0	0	0	1.76	1.76	0	0	0	0	0	0
6/19/2024 11:08	67403	WAKE_T2	39	45	6	0.19	0.25	0.06	0	0	0	0	0	0	0	0
6/19/2024 11:08	59302	MCAL_T1	30	34	4	0.7	0.68	-0.02	-0.29	-0.42	1	1	0	600	600	0
6/19/2024 11:08	59301	MCAL_T1	7	8	1	0.73	0.52	-0.21	0	0	0	0	0	0	0	0
6/19/2024 11:09	67401	WAKE_T2	39	45	6	0.19	0.25	0.06	0	0	0	0	0	0	0	0
6/19/2024 11:09	55101	WERT_T1	0	17	17	0	0.36	0.36	-3.25	-3.06	8	8	0	6600	6600	0
6/19/2024 11:09	67402	WAKE_T2	0	0	0	0	0	0	1.76	1.76	0	0	0	0	0	0
6/19/2024 11:09	55103	WERT_T1	2	2	0	2.65	2.75	0.1	0	0	0	0	0	0	0	0
6/19/2024 11:10	46206	DANV_T2	7	48	41	0.64	0.59	-0.05	2.62	2.74	1	1	0	1200	1200	0
6/19/2024 11:10	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 11:10	55101	WERT_T1	0	17	17	0	0.36	0.36	-1.62	-1.53	4	4	0	3300	3300	0
6/19/2024 11:10	46203	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 11:10	55103	WERT_T1	2	2	0	2.65	2.75	0.1	0	0	0	0	0	0	0	0
6/19/2024 11:11	55101	WERT_T1	0	17	17	0	0.36	0.36	-1.62	-1.53	4	4	0	3300	3300	0
6/19/2024 11:11	46206	DANV_T2	7	48	41	0.64	0.59	-0.05	2.62	2.74	1	1	0	1200	1200	0
6/19/2024 11:11	47101	MARL_T1	110	143	33	0.74	0.78	0.04	-1.43	-1.53	1	1	0	600	600	0
6/19/2024 11:11	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 11:11	47104	MARL_T1	36	26	-10	0.57	0.57	0	0	0	0	0	0	0	0	0
6/19/2024 11:11	46203	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 11:11	55103	WERT_T1	2	2	0	2.65	2.75	0.1	0	0	0	0	0	0	0	0
6/19/2024 11:12	55101	WERT_T1	0	17	17	0	0.36	0.36	-1.62	-1.53	4	4	0	3300	3300	0
6/19/2024 11:12	16101	BING_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/19/2024 11:12	16102	BING_T2	0	0	0	0	0	0	-0.04	-0.01	1	1	0	1200	1200	0
6/19/2024 11:12	55103	WERT_T1	2	2	0	2.65	2.75	0.1	0	0	0	0	0	0	0	0
6/19/2024 11:12	16103	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/19/2024 11:12	47101	MARL_T1	110	143	33	0.74	0.78	0.04	-1.43	-1.53	1	1	0	600	600	0
6/19/2024 11:12	47104	MARL_T1	36	26	-10	0.57	0.57	0	0	0	0	0	0	0	0	0
6/19/2024 11:13	46203	DANV_T2	0	2	2	0	0	0	-1.33	-1.31	0	0	0	0	0	0
6/19/2024 11:13	10801	OHHI_T1	4	15	11	1.03	0.59	-0.44	-1.04	-0.93	3	3	0	2100	2100	0
6/19/2024 11:13	46206	DANV_T2	7	48	41	0.64	0.59	-0.05	2.62	2.74	1	1	0	1200	1200	0
6/19/2024 11:13	16103	BING_T2	1	0	-1	0.1	0	-0.1	-1.29	-1.24	2	2	0	1500	1500	0
6/19/2024 11:13	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 11:13	16101	BING_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/19/2024 11:14	46206	DANV_T2	7	48	41	0.64	0.59	-0.05	0	0	0	0	0	0	0	0
6/19/2024 11:14	46203	DANV_T2	0	2	2	0	0	0	-1.33	-1.31	0	0	0	0	0	0
6/19/2024 11:14	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 11:17	25402	LAHA_T2	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
6/19/2024 11:17	58302	NOTT_T1	0	0	0	0	0	0	-1.02	-1.01	2	2	0	2100	2100	0
6/19/2024 11:17	40101	HUNT_T2	82	105	23	0.65	0.48	-0.17	-0.44	-0.48	0	0	0	0	0	0
6/19/2024 11:18	47101	MARL_T1	119	145	26	0.82	0.87	0.05	-2.85	-3.06	2	2	0	1200	1200	0
6/19/2024 11:18	47104	MARL_T1	24	44	20	0.34	0.42	0.08	0	0	0	0	0	0	0	0
6/19/2024 11:20	47101	MARL_T1	119	145	26	0.82	0.87	0.05	-1.43	-1.53	1	1	0	600	600	0
6/19/2024 11:20	44203	POIN_T2	4	13	9	0.58	2	1.42	0	0	0	0	0	0	0	0
6/19/2024 11:20	44202	POIN_T2	0	0	0	0	0	0	-0.87	-1	2	2	0	1800	1800	0
6/19/2024 11:20	47104	MARL_T1	24	44	20	0.34	0.42	0.08	0	0	0	0	0	0	0	0
6/19/2024 11:21	64101	REFR_T1	3	9	6	0.73	0.43	-0.3	0.43	0.44	0	0	0	0	0	0
6/19/2024 11:22	58303	NOTT_T2	0	0	0	0	0	0	-0.09	0.01	1	1	0	900	900	0
6/19/2024 11:22	47104	MARL_T1	24	44	20	0.34	0.42	0.08	0	0	0	0	0	0	0	0
6/19/2024 11:22	47101	MARL_T1	119	145	26	0.82	0.87	0.05	-3.06	-3.1	2	2	0	1200	1200	0
6/19/2024 11:23	43301	WATS_T2	0	0	0	0	0	0	-0.05	-0.03	1	1	0	900	900	0
6/19/2024 11:23	45502	DERR_T2	23	75	52	0.47	0.46	-0.01	0	0	0	0	0	0	0	0
6/19/2024 11:23	45501	DERR_T2	8	19	11	0.7	0.52	-0.18	1.35	1.17	2	2	0	1800	1800	0
6/19/2024 11:23	43304	WATS_T2	3	3	0	0.87	1.65	0.78	-1.78	-1.73	2	2	0	1200	1200	0
6/19/2024 11:24	45501	DERR_T2	8	19	11	0.7	0.52	-0.18	1.35	1.17	2	2	0	1800	1800	0
6/19/2024 11:24	14403	SSLA_T1	0	2	2	0	0	0	1.08	1.01	1	1	0	600	600	0
6/19/2024 11:24	56803	BENV_T1	8	14	6	1.03	0.68	-0.35	0	0	0	0	0	0	0	0
6/19/2024 11:24	45502	DERR_T2	23	75	52	0.47	0.46	-0.01	0	0	0	0	0	0	0	0
6/19/2024 11:24	14404	SSLA_T1	1	1	0	2.1	1.8	-0.3	0	0	0	0	0	0	0	0
6/19/2024 11:24	56801	BENV_T1	1	3	2	1	0.7	-0.3	-0.16	-0.13	1	1	0	600	600	0
6/19/2024 11:25	45501	DERR_T2	8	19	11	0.7	0.52	-0.18	1.35	1.17	2	2	0	1800	1800	0
6/19/2024 11:25	45502	DERR_T2	23	75	52	0.47	0.46	-0.01	0	0	0	0	0	0	0	0
6/19/2024 11:25	43304	WATS_T2	3	3	0	0.87	1.65	0.78	-0.89	-0.87	1	1	0	600	600	0
6/19/2024 11:26	46203	DANV_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/19/2024 11:26	46206	DANV_T2	41	54	13	0.63	0.65	0.02	2.74	2.71	1	1	0	1200	1200	0
6/19/2024 11:26	46204	DANV_T2	0	12	12	0	0.6	0.6	0	0	0	0	0	0	0	0
6/19/2024 11:26	43304	WATS_T2	3	3	0	0.87	1.65	0.78	-0.89	-0.87	1	1	0	600	600	0
6/19/2024 11:27	56801	BENV_T1	1	3	2	1	0.7	-0.3	-0.16	-0.13	1	1	0	600	600	0
6/19/2024 11:27	56803	BENV_T1	8	14	6	1.03	0.68	-0.35	0	0	0	0	0	0	0	0
6/19/2024 11:28	10801	OHHI_T1	8	20	12	0.58	0.59	0.01	-0.93	-1.1	3	3	0	2100	2100	0
6/19/2024 11:29	14204	EALL_T2	0	0	0	0	0	0	-0.08	-0.01	0	0	0	0	0	0
6/19/2024 11:29	46206	DANV_T2	41	54	13	0.63	0.65	0.02	2.74	2.71	1	1	0	1200	1200	0
6/19/2024 11:29	46203	DANV_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/19/2024 11:29	46204	DANV_T2	0	12	12	0	0.6	0.6	0	0	0	0	0	0	0	0
6/19/2024 11:30	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/19/2024 11:31	13303	ORVI_T1	0	0	0	0	0	0	0.73	0.78	0	0	0	0	0	0
6/19/2024 11:33	47403	PENS_T1	0	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0
6/19/2024 11:33	65001	NEFF_T2	0	0	0	0	0	0	0.64	0.61	1	1	0	1200	1200	0
6/19/2024 11:33	46501	LOHA_T1	8	25	17	0.48	0.57	0.09	0	0	0	0	0	0	0	0
6/19/2024 11:33	47401	PENS_T1	19	19	0	0.76	0.78	0.02	0.45	0.42	0	0	0	0	0	0
6/19/2024 11:33	46502	LOHA_T1	0	0	0	0	0	0	-0.85	-0.84	2	2	0	2400	2400	0
6/19/2024 11:34	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 11:34	40601	PIGR_T1	3	3	0	0.27	0.4	0.13	0	0	0	0	0	0	0	0
6/19/2024 11:34	40602	PIGR_T1	3	1	-2	0.83	1	0.17	-0.01	0.01	0	0	0	0	0	0
6/19/2024 11:34	47101	MARL_T1	126	169	43	0.92	0.97	0.05	-1.53	-1.55	1	1	0	600	600	0
6/19/2024 11:34	47104	MARL_T1	8	45	37	0.55	0.41	-0.14	0	0	0	0	0	0	0	0
6/19/2024 11:35	40602	PIGR_T1	3	1	-2	0.83	1	0.17	-0.01	0.01	0	0	0	0	0	0
6/19/2024 11:35	64101	REFR_T1	3	9	6	0.43	0.71	0.28	0.86	0.89	0	0	0	0	0	0
6/19/2024 11:35	64204	KINZ_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/19/2024 11:35	64203	KINZ_T1	2	9	7	1.35	1.85	0.5	0.68	0.84	3	3	0	2100	2100	0
6/19/2024 11:35	47101	MARL_T1	126	169	43	0.92	0.97	0.05	-1.53	-1.55	1	1	0	600	600	0
6/19/2024 11:35	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 11:35	64201	KINZ_T1	10	36	26	0.37	0.58	0.21	0	0	0	0	0	0	0	0
6/19/2024 11:35	47104	MARL_T1	8	45	37	0.55	0.41	-0.14	0	0	0	0	0	0	0	0
6/19/2024 11:35	40601	PIGR_T1	3	3	0	0.27	0.4	0.13	0	0	0	0	0	0	0	0
6/19/2024 11:36	64204	KINZ_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/19/2024 11:36	64203	KINZ_T1	2	9	7	1.35	1.85	0.5	0.68	0.84	3	3	0	2100	2100	0
6/19/2024 11:36	64201	KINZ_T1	10	36	26	0.37	0.58	0.21	0	0	0	0	0	0	0	0
6/19/2024 11:37	47403	PENS_T1	0	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0
6/19/2024 11:37	47401	PENS_T1	19	19	0	0.76	0.78	0.02	0.42	0.38	0	0	0	0	0	0
6/19/2024 11:38	44301	BEAV_T2	43	57	14	0.73	0.76	0.03	2.34	2.08	4	4	0	3000	3000	0
6/19/2024 11:39	46204	DANV_T2	3	74	71	0.43	0.47	0.04	0	0	0	0	0	0	0	0
6/19/2024 11:39	46203	DANV_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/19/2024 11:39	46206	DANV_T2	47	91	44	0.65	0.68	0.03	2.71	2.99	1	1	0	1200	1200	0
6/19/2024 11:40	59302	MCAL_T1	31	39	8	0.76	0.67	-0.09	-0.35	-0.4	1	1	0	600	600	0
6/19/2024 11:40	59301	MCAL_T1	7	8	1	0.86	0.67	-0.19	0	0	0	0	0	0	0	0
6/19/2024 11:41	44301	BEAV_T2	43	57	14	0.73	0.76	0.03	1.17	1.04	2	2	0	1500	1500	0
6/19/2024 11:41	46004	BERW_T2	0	2	2	0	0	0	1.36	1.41	0	0	0	0	0	0
6/19/2024 11:42	46204	DANV_T2	3	74	71	0.43	0.47	0.04	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/19/2024 11:42	53502	EVIL_T2	5	6	1	0.8	0.96	0.16	0.7	0.74	2	2	0	1200	1200	0
6/19/2024 11:42	46203	DANV_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/19/2024 11:42	53501	EVIL_T2	0	3	3	0	1	1	0	0	0	0	0	0	0	0
6/19/2024 11:42	46206	DANV_T2	47	91	44	0.65	0.68	0.03	2.71	2.99	1	1	0	1200	1200	0
6/19/2024 11:43	10801	CHHI_T1	15	22	7	0.66	0.63	-0.03	-1.1	-1.03	3	3	0	2100	2100	0
6/19/2024 11:44	41801	GOCI_T2	2	3	1	0.85	0.5	-0.35	0	0	2	2	0	1800	1800	0
6/19/2024 11:45	46501	LOHA_T1	25	17	-8	0.72	0.59	-0.13	0	0	0	0	0	0	0	0
6/19/2024 11:45	65205	PRIN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/19/2024 11:45	46504	LOHA_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 11:45	46506	LOHA_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
6/19/2024 11:46	20601	GRWO_T2	105	131	26	0.76	0.95	0.19	0.61	0.62	0	0	0	0	0	0
6/19/2024 11:47	25501	MADI_T1	3	2	-1	0.47	1.5	1.03	0	0	0	0	0	0	0	0
6/19/2024 11:47	25503	MADI_T1	0	1	1	0	0	0	-0.39	-0.38	0	0	0	0	0	0
6/19/2024 11:49	66703	STRA_T1	0	0	0	0	0	0	-0.14	-0.11	0	0	0	0	0	0
6/19/2024 11:49	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 11:49	64101	REFR_T1	9	8	-1	0.78	0.75	-0.03	0.89	0.96	0	0	0	0	0	0
6/19/2024 11:49	40602	PIGR_T1	1	1	0	1	0.2	-0.8	0.01	0.01	0	0	0	0	0	0
6/19/2024 11:49	55003	NEWP_T2	0	0	0	0	0	0	-0.16	-0.16	1	1	0	600	600	0
6/19/2024 11:49	40601	PIGR_T1	2	3	1	0.4	0.67	0.27	0	0	0	0	0	0	0	0
6/19/2024 11:50	41902	REED_T1	22	29	7	0.42	0.61	0.19	0.69	0.8	0	0	0	0	0	0
6/19/2024 11:50	41901	REED_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
6/19/2024 11:50	41903	REED_T1	4	4	0	1.63	0.78	-0.85	0	0	0	0	0	0	0	0
6/19/2024 11:51	67204	TEHI_T2	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
6/19/2024 11:51	40602	PIGR_T1	1	1	0	1	0.2	-0.8	0.01	0.01	0	0	0	0	0	0
6/19/2024 11:51	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 11:51	40601	PIGR_T1	2	3	1	0.4	0.67	0.27	0	0	0	0	0	0	0	0
6/19/2024 11:52	43304	WATS_T2	3	5	2	1.37	0.4	-0.97	-1.69	-1.64	2	2	0	1200	1200	0
6/19/2024 11:53	64101	REFR_T1	9	8	-1	0.78	0.75	-0.03	0.48	0.53	0	0	0	0	0	0
6/19/2024 11:54	67204	TEHI_T2	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
6/19/2024 11:54	10801	CHHI_T1	19	27	8	0.52	0.64	0.12	-1.03	-1.02	3	3	0	2100	2100	0
6/19/2024 11:54	46203	DANV_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/19/2024 11:54	46206	DANV_T2	51	89	38	0.67	0.62	-0.05	5.97	6.04	2	2	0	2400	2400	0
6/19/2024 11:54	46204	DANV_T2	11	69	58	0.49	0.33	-0.16	0	0	0	0	0	0	0	0
6/19/2024 11:55	29402	BELT_T1	1	1	0	7.9	7.6	-0.3	0	0	0	0	0	0	0	0
6/19/2024 11:55	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/19/2024 11:55	27502	WEIS_T2	17	29	12	0.45	0.64	0.19	-0.12	-0.09	0	0	0	0	0	0
6/19/2024 11:56	10801	CHHI_T1	19	27	8	0.52	0.64	0.12	-1.03	-1.02	3	3	0	2100	2100	0
6/19/2024 11:58	22901	HARW_T1	14	28	14	0.34	0.47	0.13	-0.13	-0.11	1	1	0	1200	1200	0
6/19/2024 11:58	22905	HARW_T1	2	3	1	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/19/2024 11:58	22903	HARW_T1	22	25	3	0.95	2.3	1.35	0	0	0	0	0	0	0	0
6/19/2024 11:58	45402	WBLO_T2	1	0	-1	0.1	0	-0.1	-0.75	-0.74	1	1	0	900	900	0
6/19/2024 12:00	64202	KINZ_T1	0	3	3	0	1.2	1.2	0	0	0	0	0	0	0	0
6/19/2024 12:00	64201	KINZ_T1	34	80	46	0.51	0.44	-0.07	0	0	0	0	0	0	0	0
6/19/2024 12:00	64203	KINZ_T1	2	2	0	1.85	2.05	0.2	0.76	0.71	3	3	0	2100	2100	0
6/19/2024 12:00	22901	HARW_T1	27	27	0	0.62	0.62	0	-0.13	-0.11	1	1	0	1200	1200	0
6/19/2024 12:00	22903	HARW_T1	25	24	-1	2.67	0.74	-1.93	0	0	0	0	0	0	0	0
6/19/2024 12:00	64204	KINZ_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/19/2024 12:00	22904	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 12:00	22905	HARW_T1	1	14	13	0.2	3.1	2.9	0	0	0	0	0	0	0	0
6/19/2024 12:04	47401	PENS_T1	11	16	5	0.76	0.73	-0.03	0.75	1.06	0	0	0	0	0	0
6/19/2024 12:04	47403	PENS_T1	1	0	-1	2.1	0	-2.1	0	0	0	0	0	0	0	0
6/19/2024 12:05	45502	DERR_T2	114	109	-5	0.67	0.58	-0.09	0.25	0.32	1	1	0	300	300	0
6/19/2024 12:05	45501	DERR_T2	23	19	-4	0.45	0.44	-0.01	0	0	0	0	0	0	0	0
6/19/2024 12:05	47401	PENS_T1	11	16	5	0.76	0.73	-0.03	0.38	0.53	0	0	0	0	0	0
6/19/2024 12:05	47403	PENS_T1	1	0	-1	2.1	0	-2.1	0	0	0	0	0	0	0	0
6/19/2024 12:06	40602	PIGR_T1	1	1	0	1	0.2	-0.8	0.01	0.01	0	0	0	0	0	0
6/19/2024 12:06	40603	PIGR_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/19/2024 12:06	40601	PIGR_T1	2	3	1	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
6/19/2024 12:08	40602	PIGR_T1	1	1	0	1	0.2	-0.8	0.02	0.02	0	0	0	0	0	0
6/19/2024 12:08	40603	PIGR_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/19/2024 12:08	40601	PIGR_T1	2	3	1	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
6/19/2024 12:09	57004	WHHI_T2	0	0	0	0	0	0	-0.37	-0.34	0	0	0	0	0	0
6/19/2024 12:09	57003	WHHI_T2	18	14	-4	0.87	0.77	-0.1	0	0	0	0	0	0	0	0
6/19/2024 12:10	46203	DANV_T2	0	1	1	0	0	0	-2.18	-0.85	0	0	0	0	0	0
6/19/2024 12:10	46206	DANV_T2	89	63	-26	0.96	0.57	-0.39	0	0	0	0	0	0	0	0
6/19/2024 12:10	46204	DANV_T2	69	44	-25	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
6/19/2024 12:11	46203	DANV_T2	0	1	1	0	0	0	-2.18	-0.85	0	0	0	0	0	0
6/19/2024 12:11	10206	ALLE_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 12:11	46204	DANV_T2	69	44	-25	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
6/19/2024 12:11	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 12:11	10204	ALLE_T2	3	2	-1	0.57	0.2	-0.37	0	0	0	0	0	0	0	0
6/19/2024 12:11	10102	ALLE_T2	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
6/19/2024 12:11	46206	DANV_T2	89	63	-26	0.96	0.57	-0.39	0	0	0	0	0	0	0	0
6/19/2024 12:15	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 12:16	64202	KINZ_T1	3	4	1	1.13	0.33	-0.8	0	0	0	0	0	0	0	0
6/19/2024 12:16	64201	KINZ_T1	55	71	16	0.41	0.63	0.22	0	0	0	0	0	0	0	0
6/19/2024 12:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 12:16	41301	FISH_T1	3	1	-2	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
6/19/2024 12:16	64204	KINZ_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
6/19/2024 12:16	64203	KINZ_T1	2	2	0	2.1	1.5	-0.6	0.71	0.68	3	3	0	2100	2100	0
6/19/2024 12:16	41305	FISH_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
6/19/2024 12:16	41303	FISH_T1	8	10	2	1.46	1.21	-0.25	0	0	0	0	0	0	0	0
6/19/2024 12:17	47403	PENS_T1	0	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0
6/19/2024 12:17	47401	PENS_T1	15	14	-1	0.71	0.87	0.16	0.53	0.47	0	0	0	0	0	0
6/19/2024 12:18	12701	MACU_T1	0	0	0	0	0	0	-0.7	-0.69	1	1	0	1200	1200	0
6/19/2024 12:19	47403	PENS_T1	0	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0
6/19/2024 12:19	47401	PENS_T1	15	14	-1	0.71	0.87	0.16	1.06	0.94	0	0	0	0	0	0
6/19/2024 12:19	12701	MACU_T1	0	0	0	0	0	0	-0.7	-0.69	1	1	0	1200	1200	0
6/19/2024 12:21	40601	PIGR_T1	3	3	0	0.67	0.47	-0.2	0	0	0	0	0	0	0	0
6/19/2024 12:21	40602	PIGR_T1	1	1	0	0.2	0.3	0.1	0.01	0.01	0	0	0	0	0	0
6/19/2024 12:22	13606	RICH_T2	3	5	2	2.93	3.07	0.14	0.82	0.79	0	0	0	0	0	0
6/19/2024 12:23	51108	CARL_T1	1	0	-1	0.2	0	-0.2	-0.05	0.66	1	1	0	600	600	0
6/19/2024 12:23	67801	WLAN_T1	1	20	19	0.8	0.28	-0.52	-0.57	-0.42	0	0	0	0	0	0
6/19/2024 12:23	51104	CARL_T1	1	1	0	0.7	1.9	1.2	0	0	0	0	0	0	0	0
6/19/2024 12:23	51101	CARL_T1	1	1	0	8.6	8.7	0.1	0	0	0	0	0	0	0	0
6/19/2024 12:23	67804	WLAN_T1	9	10	1	0.61	0.73	0.12	0	0	0	0	0	0	0	0
6/19/2024 12:26	46206	DANV_T2	63	65	2	0.62	0.59	-0.03	2.93	2.98	1	1	0	1200	1200	0
6/19/2024 12:26	46204	DANV_T2	8	56	48	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
6/19/2024 12:26	46203	DANV_T2	0	1	1	0	0	0	-1.71	-1.61	0	0	0	0	0	0
6/19/2024 12:27	67605	WARW_T1	1	1	0	0.5	0.7	0.2	-0.61	-0.66	0	0	0	0	0	0
6/19/2024 12:28	67605	WARW_T1	1	1	0	0.5	0.7	0.2	-0.61	-0.66	0	0	0	0	0	0
6/19/2024 12:31	22903	HARW_T1	21	23	2	0.74	0.56	-0.18	-0.25	-0.28	0	0	0	0	0	0
6/19/2024 12:31	22901	HARW_T1	27	32	5	0.69	0.77	0.08	0	0	0	0	0	0	0	0
6/19/2024 12:31	23403	HONE_T1	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
6/19/2024 12:31	22905	HARW_T1	14	11	-3	0.75	0	-0.75	0	0	0	0	0	0	0	0
6/19/2024 12:31	40101	HUNT_T2	41	253	212	0.39	0.46	0.07	-2.99	-2.93	0	0	0	0	0	0
6/19/2024 12:32	64202	KINZ_T1	2	4	2	1.2	0.33	-0.87	0	0	0	0	0	0	0	0
6/19/2024 12:32	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
6/19/2024 12:32	64201	KINZ_T1	71	71	0	0.41	0.66	0.25	0	0	0	0	0	0	0	0
6/19/2024 12:32	40101	HUNT_T2	41	253	212	0.39	0.46	0.07	-1	-0.98	0	0	0	0	0	0
6/19/2024 12:32	64203	KINZ_T1	2	3	1	2.05	1.5	-0.55	0.68	0.8	3	3	0	2100	2100	0
6/19/2024 12:32	28403	HART_T2	0	0	0	0	0	0	-0.36	-0.35	1	1	0	900	900	0
6/19/2024 12:35	45402	WBLO_T2	0	0	0	0	0	0	-0.64	-0.69	1	1	0	900	900	0
6/19/2024 12:35	47401	PENS_T1	13	16	3	0.94	0.84	-0.1	0.47	0.49	0	0	0	0	0	0
6/19/2024 12:35	47403	PENS_T1	0	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0
6/19/2024 12:37	55101	WERT_T1	11	12	1	0.67	0.33	-0.34	-1.39	-1.34	4	4	0	3300	3300	0
6/19/2024 12:37	51005	NHAR_T1	0	155	155	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 12:37	45502	DERR_T2	108	128	20	0.71	0.7	-0.01	0.3	0.28	1	1	0	300	300	0
6/19/2024 12:37	51004	NHAR_T1	1	1450	1449	7	2.2	-4.8	0	0	0	0	0	0	0	0
6/19/2024 12:37	51006	NHAR_T1	0	609	609	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 12:37	55103	WERT_T1	1	1	0	4.6	8.6	4	0	0	0	0	0	0	0	0
6/19/2024 12:37	51003	NHAR_T1	0	1682	1682	0	0.48	0.48	-1.79	-1.8	1	1	0	1200	1200	0
6/19/2024 12:37	51002	NHAR_T1	0	1736	1736	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 12:37	45501	DERR_T2	16	67	51	0.49	0.52	0.03	0	0	0	0	0	0	0	0
6/19/2024 12:37	51001	NHAR_T1	0	12	12	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 12:38	50701	SMEC_T1	1	2	1	0.1	0.3	0.2	-0.86	-0.84	2	2	0	2100	2100	0
6/19/2024 12:38	61102	BERK_T5	0	0	0	0	0	0	0.07	0.19	2	2	0	1200	1200	0
6/19/2024 12:39	50701	SMEC_T1	1	2	1	0.1	0.3	0.2	-0.86	-0.84	2	2	0	2100	2100	0
6/19/2024 12:40	55103	WERT_T1	1	1	0	4.6	8.6	4	0	0	0	0	0	0	0	0
6/19/2024 12:40	44301	BEAV_T2	19	68	49	0.51	0.71	0.2	0.87	1.24	2	2	0	1500	1500	0
6/19/2024 12:40	55101	WERT_T1	11	12	1	0.67	0.33	-0.34	-1.39	-1.34	4	4	0	3300	3300	0
6/19/2024 12:41	46203	DANV_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/19/2024 12:41	46206	DANV_T2	59	88	29	0.61	0.81	0.2	2.98	3.24	1	1	0	1200	1200	0
6/19/2024 12:41	10805	CHHI_T2	176	312	136	0.85	0.94	0.09	0.55	0.66	2	2	0	1200	1200	0
6/19/2024 12:41	46204	DANV_T2	44	74	30	0.37	0.24	-0.13	0	0	0	0	0	0	0	0
6/19/2024 12:42	44301	BEAV_T2	19	68	49	0.51	0.71	0.2	0.87	1.24	2	2	0	1500	1500	0
6/19/2024 12:45	64704	LITI_T1	0	0	0	0	0	0	0.79	0.84	1	1	0	600	600	0
6/19/2024 12:45	64701	LITI_T1	15	16	1	2.86	2.51	-0.35	0	0	0	0	0	0	0	0
6/19/2024 12:46	65901	SAKR_T2	1	1	0	5.2	5.3	0.1	-0.07	-0.07	2	2	0	1500	1500	0
6/19/2024 12:47	54701	NEBL_T1	0	5	5	0	0.25	0.25	0	0	1	1	0	600	600	0
6/19/2024 12:47	43202	MVIL_T2	1	1	0	0.3	0.2	-0.1	-0.15	-0.08	0	0	0	0	0	0
6/19/2024 12:49	56504	ROCK_T2	5	1966	1961	1.84	2.15	0.31	0	0	0	0	0	0	0	0
6/19/2024 12:49	56501	ROCK_T2	2	2411	2409	0.9	1.58	0.68	-1.5	-1.43	0	0	0	0	0	0
6/19/2024 12:49	56503	ROCK_T2	0	917	917	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 12:51	57401	SPAN_T1	17	8	-9	0.69	1.02	0.33	-0.25	-0.87	1	1	0	600	600	0
6/19/2024 12:51	42902	MIDD_T2	9	52	43	0.56	0.79	0.23	-0.02	0.23	2	2	0	900	900	0
6/19/2024 12:51	42901	MIDD_T2	3	14	11	1.13	0.88	-0.25	0	0	0	0	0	0	0	0
6/19/2024 12:52	61101	BERK_T5	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
6/19/2024 12:53	49803	UNIV_T1	0	0	0	0	0	0	-1.47	-1.43	0	0	0	0	0	0
6/19/2024 12:53	49804	UNIV_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
6/19/2024 12:54	14402	SSLA_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 12:54	61101	BERK_T5	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
6/19/2024 12:54	14404	SSLA_T1	1	2	1	2.3	2.2	-0.1	0	0	0	0	0	0	0	0
6/19/2024 12:54	14403	SSLA_T1	5	6	1	0.66	0.6	-0.06	1.11	1.1	1	1	0	600	600	0
6/19/2024 12:55	55103	WERT_T1	1	1	0	8.6	9	0.4	0	0	0	0	0	0	0	0
6/19/2024 12:55	55101	WERT_T1	10	12	2	0.32	0.55	0.23	-1.34	-1.34	4	4	0	3300	3300	0
6/19/2024 12:56	46002	BERW_T2	0	0	0	0	0	0	-0.36	-0.34	1	1	0	900	900	0
6/19/2024 12:56	46004	BERW_T2	0	9	9	0	0.32	0.32	0	0	0	0	0	0	0	0
6/19/2024 12:58	67401	WAKE_T2	33	28	-5	0.29	0.3	0.01	0	0	0	0	0	0	0	0
6/19/2024 12:58	67402	WAKE_T2	0	0	0	0	0	0	1.88	1.85	0	0	0	0	0	0
6/19/2024 13:03	64204	KINZ_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
6/19/2024 13:03	64202	KINZ_T1	2	4	2	0.5	0.5	0	0	0	0	0	0	0	0	0
6/19/2024 13:03	64201	KINZ_T1	70	101	31	0.34	0.37	0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/19/2024 13:03	64203	KINZ_T1	3	4	1	1.47	1.57	0.1	0.97	0.85	3	3	0	2100	2100	0
6/19/2024 13:04	47001	HUGH_T2	1	1	0	1.2	0.3	-0.9	-0.64	-0.66	1	1	0	900	900	0
6/19/2024 13:06	47001	HUGH_T2	1	1	0	1.2	0.3	-0.9	-0.66	-0.73	1	1	0	900	900	0
6/19/2024 13:07	67602	WARW_T2	0	0	0	0	0	0	0.45	0.33	2	2	0	1500	1500	0
6/19/2024 13:08	49804	UNIV_T1	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
6/19/2024 13:08	67401	WAKE_T2	21	27	6	0.25	0.3	0.05	-0.4	-0.46	0	0	0	0	0	0
6/19/2024 13:08	49803	UNIV_T1	0	1	1	0	0.2	0.2	-1.43	-1.34	0	0	0	0	0	0
6/19/2024 13:08	67602	WARW_T2	0	0	0	0	0	0	1.34	1	6	6	0	4500	4500	0
6/19/2024 13:09	56501	ROCK_T2	2409	8	-2401	4.27	0.2	-4.07	0.95	-0.14	0	0	0	0	0	0
6/19/2024 13:09	56503	ROCK_T2	917	0	-917	3.65	0	-3.65	0	0	0	0	0	0	0	0
6/19/2024 13:09	67602	WARW_T2	0	0	0	0	0	0	0.45	0.33	2	2	0	1500	1500	0
6/19/2024 13:09	56504	ROCK_T2	1960	5	-1955	4.46	0	-4.46	0	0	0	0	0	0	0	0
6/19/2024 13:10	56503	ROCK_T2	917	0	-917	3.65	0	-3.65	0	0	0	0	0	0	0	0
6/19/2024 13:10	56501	ROCK_T2	2409	8	-2401	4.27	0.2	-4.07	1.9	-0.27	0	0	0	0	0	0
6/19/2024 13:10	56504	ROCK_T2	1960	5	-1955	4.46	0	-4.46	-0.51	-0.38	0	0	0	0	0	0
6/19/2024 13:10	67602	WARW_T2	0	0	0	0	0	0	1.79	1.34	8	8	0	6000	6000	0
6/19/2024 13:11	56503	ROCK_T2	917	0	-917	3.65	0	-3.65	0	0	0	0	0	0	0	0
6/19/2024 13:11	56501	ROCK_T2	2409	8	-2401	4.27	0.2	-4.07	0.95	-0.14	0	0	0	0	0	0
6/19/2024 13:11	56504	ROCK_T2	1960	5	-1955	4.46	0	-4.46	0	0	0	0	0	0	0	0
6/19/2024 13:11	67602	WARW_T2	0	0	0	0	0	0	0.45	0.33	2	2	0	1500	1500	0
6/19/2024 13:13	15001	BLMO_T1	2	3	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
6/19/2024 13:14	40101	HUNT_T2	244	348	104	0.73	0.95	0.22	-0.8	-0.92	0	0	0	0	0	0
6/19/2024 13:15	52402	GRPA_T2	66	69	3	0.59	0.58	-0.01	0	0	0	0	0	0	0	0
6/19/2024 13:15	53902	HALI_T2	1	2	1	4.2	2.3	-1.9	0	0	0	0	0	0	0	0
6/19/2024 13:15	52403	GRPA_T2	13	78	65	1.06	0.72	-0.34	0	0	0	0	0	0	0	0
6/19/2024 13:15	40101	HUNT_T2	310	353	43	0.95	0.95	0	-0.8	-0.92	0	0	0	0	0	0
6/19/2024 13:15	20601	GRWO_T2	293	291	-2	1.1	1.03	-0.07	0.71	0.73	0	0	0	0	0	0
6/19/2024 13:15	52401	GRPA_T2	10	13	3	0.54	0.65	0.11	0	0	0	0	0	0	0	0
6/19/2024 13:15	56504	ROCK_T2	6	1	-5	1.32	0	-1.32	0	0	0	0	0	0	0	0
6/19/2024 13:15	53903	HALI_T2	2	2	0	0.45	0.45	0	0.32	0.34	0	0	0	0	0	0
6/19/2024 13:15	46801	HEPB_T2	5	11	6	0.32	0.3	-0.02	0.58	0.59	0	0	0	0	0	0
6/19/2024 13:15	56501	ROCK_T2	7	1	-6	0.91	0.2	-0.71	0.95	-0.14	0	0	0	0	0	0
6/19/2024 13:15	46803	HEPB_T2	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
6/19/2024 13:15	52404	GRPA_T2	6	8	2	0.45	0.33	-0.12	0.55	0.52	0	0	0	0	0	0
6/19/2024 13:16	52402	GRPA_T2	66	69	3	0.59	0.58	-0.01	0	0	0	0	0	0	0	0
6/19/2024 13:16	52401	GRPA_T2	10	13	3	0.54	0.65	0.11	0	0	0	0	0	0	0	0
6/19/2024 13:16	53902	HALI_T2	1	2	1	4.2	2.3	-1.9	0	0	0	0	0	0	0	0
6/19/2024 13:16	52404	GRPA_T2	6	8	2	0.45	0.33	-0.12	0.55	0.52	0	0	0	0	0	0
6/19/2024 13:16	53903	HALI_T2	2	2	0	0.45	0.45	0	0.48	0.51	0	0	0	0	0	0
6/19/2024 13:16	52403	GRPA_T2	13	78	65	1.06	0.72	-0.34	0	0	0	0	0	0	0	0
6/19/2024 13:17	12701	MACU_T1	4	5	1	0.65	0.63	-0.02	-1.27	-1.23	2	2	0	2400	2400	0
6/19/2024 13:17	63802	HEMP_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
6/19/2024 13:17	63804	HEMP_T1	1	2	1	8.1	8.4	0.3	0	0	0	0	0	0	0	0
6/19/2024 13:19	64203	KINZ_T1	4	3	-1	1.55	1.7	0.15	0.85	0.79	3	3	0	2100	2100	0
6/19/2024 13:19	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/19/2024 13:19	64201	KINZ_T1	31	97	66	0.37	0	-0.37	0	0	0	0	0	0	0	0
6/19/2024 13:19	64202	KINZ_T1	2	3	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
6/19/2024 13:20	66901	SHIL_T2	0	0	0	0	0	0	-1.26	-1.31	0	0	0	0	0	0
6/19/2024 13:20	56504	ROCK_T2	6	1	-5	1.32	0	-1.32	0	0	0	0	0	0	0	0
6/19/2024 13:20	66902	SHIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 13:20	56501	ROCK_T2	7	1	-6	0.91	0.2	-0.71	1.9	-0.27	0	0	0	0	0	0
6/19/2024 13:21	16405	MOPO_T2	4	4	0	0.75	0	-0.75	0	0	0	0	0	0	0	0
6/19/2024 13:21	16403	MOPO_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
6/19/2024 13:22	56504	ROCK_T2	6	1	-5	1.32	0	-1.32	0	0	0	0	0	0	0	0
6/19/2024 13:22	56501	ROCK_T2	7	1	-6	0.91	0.2	-0.71	-0.14	-0.11	0	0	0	0	0	0
6/19/2024 13:24	67602	WARW_T2	0	1	1	0	0	0	0.33	0.36	2	2	0	1500	1500	0
6/19/2024 13:26	46101	MACI_T2	0	0	0	0	0	0	-0.47	-0.86	2	2	0	2400	2400	0
6/19/2024 13:28	64201	KINZ_T1	31	97	66	0.37	0	-0.37	0.34	-0.71	4	5	1	2100	3300	1200
6/19/2024 13:28	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/19/2024 13:28	64202	KINZ_T1	2	3	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
6/19/2024 13:28	64203	KINZ_T1	4	3	-1	1.55	1.7	0.15	0	0	0	0	0	0	0	0
6/19/2024 13:29	52006	LING_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 13:29	64203	KINZ_T1	4	3	-1	1.55	1.7	0.15	0.79	0.78	3	3	0	2100	2100	0
6/19/2024 13:29	64201	KINZ_T1	31	97	66	0.37	0	-0.37	0	0	0	0	0	0	0	0
6/19/2024 13:29	52004	LING_T2	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
6/19/2024 13:29	52002	LING_T2	9	13	4	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
6/19/2024 13:29	64202	KINZ_T1	2	3	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
6/19/2024 13:29	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/19/2024 13:31	12401	MILF_T1	3	4	1	0.77	0.3	-0.47	0	0	0	0	0	0	0	0
6/19/2024 13:31	12402	MILF_T1	159	160	1	2.26	2.13	-0.13	1.19	1.18	0	0	0	0	0	0
6/19/2024 13:32	45801	HEGI_T1	1	0	-1	0.4	0	-0.4	0.88	0.31	1	1	0	900	900	0
6/19/2024 13:32	47001	HUGH_T2	1	1	0	0.3	0.9	0.6	-0.73	-0.7	1	1	0	900	900	0
6/19/2024 13:34	13105	NHAM_T2	90	24	-66	0.96	0.81	-0.15	-0.6	-1.46	1	1	0	1200	1200	0
6/19/2024 13:34	13103	NHAM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/19/2024 13:35	12801	MICK_T1	0	0	0	0	0	0	0.03	0.04	1	1	0	600	600	0
6/19/2024 13:35	12803	MICK_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/19/2024 13:36	64101	REFR_T1	10	10	0	1.08	1.29	0.21	0.09	0.11	0	0	0	0	0	0
6/19/2024 13:37	14403	SSLA_T1	4	6	2	0.83	0.33	-0.5	1.17	1.21	1	1	0	600	600	0
6/19/2024 13:37	60902	DONG_T2	2	3	1	0.45	0.2	-0.25	1.32	1.32	0	0	0	0	0	0
6/19/2024 13:37	60903	DONG_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 13:37	60901	DONG_T2	16	17	1	0.46	0.4	-0.06	0	0	0	0	0	0	0	0
6/19/2024 13:37	14402	SSLA_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/19/2024 13:37	14404	SSLA_T1	1	1	0	2.5	2.9	0.4	0	0	0	0	0	0	0	0
6/19/2024 13:38	66203	SISP_T2	0	1	1	0	0	0	-0.3	-0.19	2	2	0	1800	1800	0
6/19/2024 13:38	14403	SSLA_T1	4	6	2	0.83	0.33	-0.5	1.17	1.21	1	1	0	600	600	0
6/19/2024 13:38	14404	SSLA_T1	1	1	0	2.5	2.9	0.4	0	0	0	0	0	0	0	0
6/19/2024 13:38	14402	SSLA_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/19/2024 13:40	51004	NHAR_T1	1	6	5	7.7	7.7	0	0	0	0	0	0	0	0	0
6/19/2024 13:40	51003	NHAR_T1	0	0	0	0	0	0	-0.37	-0.41	0	0	0	0	0	0
6/19/2024 13:40	29402	BELT_T1	16	31	15	0.81	0.74	-0.07	0	0	0	0	0	0	0	0
6/19/2024 13:40	29401	BELT_T1	0	6	6	0	0.2	0.2	0	0	1	1	0	900	900	0
6/19/2024 13:42	29401	BELT_T1	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
6/19/2024 13:42	46101	MACI_T2	0	0	0	0	0	0	-0.86	-0.86	2	2	0	2400	2400	0
6/19/2024 13:42	29402	BELT_T1	16	31	15	0.81	0.74	-0.07	0	0	0	0	0	0	0	0
6/19/2024 13:43	52403	GRPA_T2	42	77	35	0.68	0.76	0.08	0	0	0	0	0	0	0	0
6/19/2024 13:43	52402	GRPA_T2	69	18	-51	0.57	0.44	-0.13	0	0	0	0	0	0	0	0
6/19/2024 13:43	52404	GRPA_T2	5	16	11	0.3	0.32	0.02	0.56	0.48	0	0	0	0	0	0
6/19/2024 13:43	52401	GRPA_T2	10	12	2	0.74	0.63	-0.11	0	0	0	0	0	0	0	0
6/19/2024 13:46	65902	SAKR_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
6/19/2024 13:46	65901	SAKR_T2	1	1	0	4.4	4.8	0.4	-0.05	0.1	2	2	0	1500	1500	0
6/19/2024 13:46	65904	SAKR_T2	1	1	0	9.5	0	-9.5	0	0	0	0	0	0	0	0
6/19/2024 13:46	20601	GRWO_T2	281	320	39	1.14	1.1	-0.04	0.74	0.76	0	0	0	0	0	0
6/19/2024 13:46	65903	SAKR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/19/2024 13:50	65904	SAKR_T2	1	1	0	9.5	0	-9.5	0	0	0	0	0	0	0	0
6/19/2024 13:50	65903	SAKR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/19/2024 13:50	65902	SAKR_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
6/19/2024 13:50	65901	SAKR_T2	1	1	0	4.4	4.8	0.4	-0.05	0.1	2	2	0	1500	1500	0
6/19/2024 13:51	67605	WARW_T1	1	1	0	0.6	0.4	-0.2	-0.66	-0.65	0	0	0	0	0	0
6/19/2024 13:53	67602	WARW_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/19/2024 13:53	67601	WARW_T2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
6/19/2024 13:54	67605	WARW_T1	1	1	0	0.6	0.4	-0.2	-0.66	-0.65	0	0	0	0	0	0
6/19/2024 13:55	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
6/19/2024 13:56	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
6/19/2024 13:59	53501	EVIL_T2	1	2	1	0.7	0.5	-0.2	-1.28	-1.32	5	5	0	2900	2900	0
6/19/2024 13:59	53502	EVIL_T2	5	1	-4	0.78	2.2	1.42	-0.01	-0.01	3	3	0	2100	2100	0
6/19/2024 14:01	52002	LING_T2	13	15	2	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
6/19/2024 14:01	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 14:01	64204	KINZ_T1	1	1	0	1.2	0.5	-0.7	0	0	0	0	0	0	0	0
6/19/2024 14:01	64203	KINZ_T1	2	3	1	1.9	1.13	-0.77	0.79	0.68	3	3	0	2100	2100	0
6/19/2024 14:01	52004	LING_T2	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
6/19/2024 14:04	65901	SAKR_T2	1	1	0	4.8	4.9	0.1	0	0	0	0	0	0	0	0
6/19/2024 14:04	65902	SAKR_T2	1	1	0	0.4	0.1	-0.3	-0.59	-0.76	2	2	0	1200	1200	0
6/19/2024 14:04	65904	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 14:04	46301	ROHR_T1	2	3	1	0.5	0.67	0.17	0	0	0	0	0	0	0	0
6/19/2024 14:04	46302	ROHR_T1	6	8	2	1.5	0.77	-0.73	0.49	0.49	0	0	0	0	0	0
6/19/2024 14:04	65903	SAKR_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/19/2024 14:04	66703	STRA_T1	1	3	2	0.2	0.4	0.2	0.06	0.22	0	0	0	0	0	0
6/19/2024 14:04	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 14:05	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 14:05	66703	STRA_T1	1	3	2	0.2	0.4	0.2	0.06	0.22	0	0	0	0	0	0
6/19/2024 14:05	65604	QVIL_T2	5	6	1	0.14	0.17	0.03	0.98	1	0	0	0	0	0	0
6/19/2024 14:06	47402	PENS_T1	4	2	-2	0.83	0.1	-0.73	0	0	0	0	0	0	0	0
6/19/2024 14:06	46302	ROHR_T1	6	8	2	1.5	0.77	-0.73	0.49	0.5	0	0	0	0	0	0
6/19/2024 14:06	46301	ROHR_T1	2	3	1	0.5	0.67	0.17	0	0	0	0	0	0	0	0
6/19/2024 14:06	47401	PENS_T1	16	24	8	0.83	0.86	0.03	0.48	0.6	0	0	0	0	0	0
6/19/2024 14:06	65604	QVIL_T2	5	6	1	0.14	0.17	0.03	2	2.03	0	0	0	0	0	0
6/19/2024 14:06	47403	PENS_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/19/2024 14:07	65604	QVIL_T2	5	6	1	0.14	0.17	0.03	1	1.02	0	0	0	0	0	0
6/19/2024 14:08	24901	WHHA_T1	0	1	1	0	0.4	0.4	-0.4	-0.15	0	0	0	0	0	0
6/19/2024 14:08	24902	WHHA_T1	2	3	1	1.05	2.1	1.05	0	0	0	0	0	0	0	0
6/19/2024 14:08	65604	QVIL_T2	5	6	1	0.14	0.17	0.03	2	2.03	0	0	0	0	0	0
6/19/2024 14:08	67605	WARW_T1	1	1	0	0.4	0.3	-0.1	-0.65	-0.63	0	0	0	0	0	0
6/19/2024 14:09	66703	STRA_T1	1	3	2	0.2	0.4	0.2	0.22	0.18	0	0	0	0	0	0
6/19/2024 14:09	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 15:05	64203	KINZ_T1	6	11	5	0.95	1.5	0.55	0.9	0.81	3	3	0	2100	2100	0
6/19/2024 15:05	64201	KINZ_T1	4	4	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
6/19/2024 15:05	64202	KINZ_T1	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/19/2024 15:05	64204	KINZ_T1	3	2	-1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/19/2024 15:06	64202	KINZ_T1	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/19/2024 15:06	64204	KINZ_T1	3	2	-1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/19/2024 15:06	64201	KINZ_T1	4	4	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
6/19/2024 15:06	64203	KINZ_T1	6	11	5	0.95	1.5	0.55	0.9	0.81	3	3	0	2100	2100	0
6/19/2024 15:27	52403	GRPA_T2	36	85	49	0.84	1.21	0.37	0	0	0	0	0	0	0	0
6/19/2024 15:27	52404	GRPA_T2	5	0	-5	0.52	0	-0.52	0.08	0.07	0	0	0	0	0	0
6/19/2024 15:27	52401	GRPA_T2	5	28	23	0.88	0.66	-0.22	0	0	0	0	0	0	0	0
6/19/2024 15:27	52402	GRPA_T2	4	28	24	0.75	0.58	-0.17	0	0	0	0	0	0	0	0
6/19/2024 15:42	67605	WARW_T1	0	0	0	0	0	0	-0.58	-0.45	0	0	0	0	0	0
6/19/2024 15:43	67605	WARW_T1	0	0	0	0	0	0	-0.58	-0.45	0	0	0	0	0	0
6/19/2024 16:08	26402	INOR_T1	167	133	-34	1.14	0.41	-0.73	0	0	0	0	0	0	0	0
6/19/2024 16:08	26401	INOR_T1	118	123	5	1.6	1.29	-0.31	1.9	1.79	0	0	0	0	0	0
6/19/2024 16:49	53502	EVIL_T2	1	1	0	1.6	1.6	0	-0.06	-0.1	2	2	0	1500	1500	0
6/19/2024 16:49	53501	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 17:31	67605	WARW_T1	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/19/2024 17:32	67605	WARW_T1	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
6/19/2024 17:53	67605	WARW_T1	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
6/19/2024 17:54	67605	WARW_T1	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
6/19/2024 18:37	67605	WARW_T1	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
6/19/2024 18:38	67605	WARW_T1	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
6/19/2024 20:12	29401	BELT_T1	5	26	21	0.14	0.2	0.06	0	0	1	1	0	900	900	0
6/19/2024 20:12	29402	BELT_T1	1	1	0	7.5	8.2	0.7	0	0	0	0	0	0	0	0
6/19/2024 20:15	20403	ASHF_T2	0	15	15	0	1.4	1.4	0.04	1.32	0	0	0	0	0	0
6/19/2024 20:15	20401	ASHF_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
6/19/2024 20:15	20402	ASHF_T2	9	25	16	0.83	0.88	0.05	0	0	0	0	0	0	0	0
6/19/2024 20:19	13503	MCMI_T2	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
6/19/2024 20:20	13503	MCMI_T2	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
6/19/2024 20:20	46203	DANV_T2	1	3	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/19/2024 20:20	46206	DANV_T2	48	155	107	0.5	0.41	-0.09	3.02	2.92	1	1	0	1200	1200	0
6/19/2024 20:22	13503	MCMI_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
6/19/2024 20:22	44601	SALE_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
6/19/2024 20:24	61102	BERK_T5	0	0	0	0	0	0	0.48	0.48	2	2	0	1500	1500	0
6/19/2024 20:27	67804	WLAN_T1	2	3	1	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
6/19/2024 20:27	67801	WLAN_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
6/19/2024 20:27	44601	SALE_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
6/19/2024 20:29	10805	CHHI_T2	63	59	-4	0.9	0.86	-0.04	0	0	1	1	0	600	600	0
6/19/2024 20:32	40902	JESH_T1	0	0	0	0	0	0	-1.04	-1.07	2	2	0	1200	1200	0
6/19/2024 20:32	40901	JESH_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
6/19/2024 20:38	12304	LANA_T2	14	16	2	0.51	0.62	0.11	0	0	0	0	0	0	0	0
6/19/2024 20:38	12305	LANA_T2	3	0	-3	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/19/2024 20:38	12301	LANA_T2	0	0	0	0	0	0	-0.83	-0.87	1	1	0	1200	1200	0
6/19/2024 20:39	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/19/2024 20:39	43304	WATS_T2	73	54	-19	1.07	0.94	-0.13	-0.96	-0.98	1	1	0	600	600	0
6/19/2024 20:51	65401	MARI_T1	9	9	0	1.17	0.9	-0.27	0	0	0	0	0	0	0	0
6/19/2024 20:51	65402	MARI_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/19/2024 20:52	65401	MARI_T1	9	9	0	1.17	0.9	-0.27	0	0	0	0	0	0	0	0
6/19/2024 20:52	65402	MARI_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/19/2024 20:53	65402	MARI_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/19/2024 20:53	65401	MARI_T1	9	9	0	1.17	0.9	-0.27	0	0	0	0	0	0	0	0
6/19/2024 20:55	16302	ALPA_T2	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
6/19/2024 20:56	16302	ALPA_T2	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
6/19/2024 20:58	16302	ALPA_T2	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
6/19/2024 20:59	16302	ALPA_T2	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
6/19/2024 21:20	58302	NOTT_T1	0	0	0	0	0	0	-0.06	-0.11	1	1	0	1200	1200	0
6/19/2024 21:21	40101	HUNT_T2	63	22	-41	0.57	0.28	-0.29	-1.23	-1.21	0	0	0	0	0	0
6/19/2024 21:22	24902	WHHA_T1	2	1	-1	0.15	0	-0.15	0.84	0.83	0	0	0	0	0	0
6/19/2024 21:23	65205	PRIN_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
6/19/2024 21:24	16101	BING_T2	3	5	2	3.7	2.63	-1.07	0	0	0	0	0	0	0	0
6/19/2024 21:24	16102	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 21:24	16103	BING_T2	0	0	0	0	0	0	-1.38	-1.43	1	1	0	900	900	0
6/19/2024 21:27	45501	DERR_T2	9	2	-7	0.32	0.1	-0.22	0.71	0.38	2	2	0	1800	1800	0
6/19/2024 21:27	45502	DERR_T2	12	5	-7	0.57	0.2	-0.37	0	0	0	0	0	0	0	0
6/19/2024 21:38	59302	MCAL_T1	4	5	1	0.4	0.77	0.37	-0.47	-0.49	1	1	0	600	600	0
6/19/2024 21:38	59301	MCAL_T1	2	3	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/19/2024 22:03	46004	BERW_T2	0	1	1	0	0.6	0.6	0.98	0.94	0	0	0	0	0	0
6/19/2024 22:15	12402	MILF_T1	1	2	1	0.9	0	-0.9	0.79	0.87	0	0	0	0	0	0
6/19/2024 22:25	17002	RIRO_T2	0	0	0	0	0	0	0.71	0.61	0	0	0	0	0	0
6/19/2024 22:28	13303	ORVI_T1	0	0	0	0	0	0	0.21	0.16	0	0	0	0	0	0
6/19/2024 22:30	65604	QVIL_T2	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
6/19/2024 22:32	10805	CHHI_T2	1	29	28	9.2	1.32	-7.88	0	0	1	1	0	600	600	0
6/19/2024 22:32	45802	HEGI_T2	41	27	-14	0.9	0.51	-0.39	-0.02	0.07	2	2	0	1200	1200	0
6/19/2024 22:33	45802	HEGI_T2	41	27	-14	0.9	0.51	-0.39	-0.02	0.07	2	2	0	1200	1200	0
6/19/2024 22:33	66703	STRA_T1	0	0	0	0	0	0	0.17	0.26	0	0	0	0	0	0
6/19/2024 22:34	10805	CHHI_T2	1	29	28	9.2	1.32	-7.88	0	0	1	1	0	600	600	0
6/19/2024 22:34	16101	BING_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/19/2024 22:34	64201	KINZ_T1	1	1	0	1	1.3	0.3	-0.61	-0.67	6	6	0	3000	3000	0
6/19/2024 22:34	61102	BERK_T5	0	0	0	0	0	0	0.08	-0.02	2	2	0	1500	1500	0
6/19/2024 22:34	12701	MACU_T1	0	0	0	0	0	0	-0.82	-0.85	1	1	0	1200	1200	0
6/19/2024 22:34	64202	KINZ_T1	1	3	2	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
6/19/2024 22:34	64204	KINZ_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
6/19/2024 22:34	16102	BING_T2	0	5	5	0	0.12	0.12	-0.34	-0.36	1	1	0	1200	1200	0
6/19/2024 22:35	40101	HUNT_T2	11	3	-8	0.33	0.1	-0.23	-2.28	-2.31	0	0	0	0	0	0
6/19/2024 22:35	20402	ASHF_T2	3	1	-2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/19/2024 22:35	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/19/2024 22:35	20403	ASHF_T2	0	0	0	0	0	0	0.81	0.77	0	0	0	0	0	0
6/19/2024 22:35	66902	SHIL_T2	8	20	12	0.16	0.19	0.03	0	0	0	0	0	0	0	0
6/19/2024 22:35	66505	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/19/2024 22:35	67602	WARW_T2	1	1	0	0.2	0.3	0.1	0.26	0.2	4	4	0	3000	3000	0
6/19/2024 22:35	66901	SHIL_T2	31	63	32	0.13	0.16	0.03	-0.43	-0.47	0	0	0	0	0	0
6/19/2024 22:35	65604	QVIL_T2	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
6/19/2024 22:35	66504	SMAN_T2	1	1	0	0.7	0	-0.7	-1.28	-1.28	2	2	0	2400	2400	0
6/19/2024 22:35	65001	NEFF_T2	0	0	0	0	0	0	-0.19	-0.25	1	1	0	1200	1200	0
6/19/2024 22:35	67603	WARW_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
6/19/2024 22:36	60801	BUCK_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
6/19/2024 22:36	60803	BUCK_T1	12	10	-2	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
6/19/2024 22:36	65901	SAKR_T2	1	1	0	7.9	8.2	0.3	-1.05	-1.12	2	2	0	1500	1500	0
6/19/2024 22:36	50701	SMEC_T1	0	0	0	0	0	0	-0.06	-0.13	0	0	0	0	0	0
6/19/2024 22:36	20601	GRWO_T2	10	3	-7	0.81	1.1	0.29	0.14	0.11	0	0	0	0	0	0
6/19/2024 22:36	67605	WARW_T1	0	0	0	0	0	0	-1.01	-1.04	0	0	0	0	0	0
6/19/2024 22:36	10801	CHHI_T1	0	13	13	0	0.72	0.72	0	0	3	3	0	2100	2100	0
6/19/2024 22:37	20401	ASHF_T2	0	2	2	0	0.15	0.15	0.3	0.27	0	0	0	0	0	0
6/19/2024 22:37	47104	MARL_T1	36	23	-13	1.22	1.42	0.2	0	0	0	0	0	0	0	0
6/19/2024 22:37	24901	WHHA_T1	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
6/19/2024 22:37	20402	ASHF_T2	3	1	-2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/19/2024 22:37	24902	WHHA_T1	0	0	0	0	0	0	0.77	0.75	0	0	0	0	0	0
6/19/2024 22:37	67603	WARW_T1	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
6/19/2024 22:37	61102	BERK_T5	0	0	0	0	0	0	-0.07	-0.4	6	6	0	4500	4500	0
6/19/2024 22:37	47101	MARL_T1	83	50	-33	0.98	1.03	0.05	-3.51	-3.43	2	2	0	1200	1200	0
6/19/2024 22:37	64101	REFR_T1	0	0	0	0	0	0	0.8	0.75	0	0	0	0	0	0
6/19/2024 22:37	67602	WARW_T2	1	1	0	0.2	0.3	0.1	0.1	0.08	2	2	0	1500	1500	0
6/19/2024 22:37	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 22:37	40601	PIGR_T1	8	4	-4	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
6/19/2024 22:37	65604	QVIL_T2	0	0	0	0	0	0	1.48	1.44	0	0	0	0	0	0
6/19/2024 22:38	67605	WARW_T1	0	0	0	0	0	0	-1.01	-1.04	0	0	0	0	0	0
6/19/2024 22:38	47101	MARL_T1	83	50	-33	0.98	1.03	0.05	-1.76	-1.71	1	1	0	600	600	0
6/19/2024 22:38	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 22:38	14404	SSLA_T1	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
6/19/2024 22:38	54203	PENN_T1	5	9	4	0.98	0.74	-0.24	0	0	0	0	0	0	0	0
6/19/2024 22:38	14403	SSLA_T1	1	0	-1	0.3	0	-0.3	1.17	1.11	0	0	0	0	0	0
6/19/2024 22:38	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 22:38	12701	MACU_T1	0	0	0	0	0	0	-0.85	-0.88	1	1	0	1200	1200	0
6/19/2024 22:38	61102	BERK_T5	0	0	0	0	0	0	-0.02	-0.13	2	2	0	1500	1500	0
6/19/2024 22:38	40601	PIGR_T1	8	4	-4	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
6/19/2024 22:38	47104	MARL_T1	36	23	-13	1.22	1.42	0.2	0	0	0	0	0	0	0	0
6/19/2024 22:38	54201	PENN_T1	7	14	7	0.7	0.54	-0.16	-1.66	-1.68	0	0	0	0	0	0
6/19/2024 22:38	55101	WERT_T1	0	0	0	0	0	0	-1.71	-1.72	3	3	0	2400	2400	0
6/19/2024 22:39	46301	ROHR_T1	224	258	34	0.57	0.63	0.06	0	0	0	0	0	0	0	0
6/19/2024 22:39	47401	PENS_T1	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
6/19/2024 22:39	46302	ROHR_T1	20	48	28	0.45	0.36	-0.09	0.43	0.42	0	0	0	0	0	0
6/19/2024 22:39	22901	HARW_T1	1	5	4	0.7	0.45	-0.25	-0.15	-0.06	1	1	0	1200	1200	0
6/19/2024 22:39	47103	MARL_T2	0	0	0	0	0	0	-1.45	-1.47	0	0	0	0	0	0
6/19/2024 22:39	61102	BERK_T5	0	0	0	0	0	0	-0.02	-0.13	2	2	0	1500	1500	0
6/19/2024 22:39	20601	GRWO_T2	10	3	-7	0.81	1.1	0.29	0.11	0.09	0	0	0	0	0	0
6/19/2024 22:39	22905	HARW_T1	11	1	0	1.64	0.68	-0.96	0	0	0	0	0	0	0	0
6/19/2024 22:39	66703	STRA_T1	0	0	0	0	0	0	0.26	0.07	0	0	0	0	0	0
6/19/2024 22:39	22903	HARW_T1	9	7	-2	0.56	0.47	-0.09	0	0	0	0	0	0	0	0
6/19/2024 22:40	60502	NMAN_T2	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
6/19/2024 22:40	12803	MICK_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
6/19/2024 22:40	40601	PIGR_T1	8	4	-4	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
6/19/2024 22:40	53903	HALI_T2	1	2	1	0.1	0.35	0.25	-0.05	-0.07	0	0	0	0	0	0
6/19/2024 22:40	46206	DANV_T2	4	5	1	0.63	0.9	0.27	2.98	2.94	1	1	0	1200	1200	0
6/19/2024 22:40	66504	SMAN_T2	1	1	0	0.7	0	-0.7	-0.64	-0.7	1	1	0	1200	1200	0
6/19/2024 22:40	67605	WARW_T1	0	0	0	0	0	0	-1.01	-1.04	0	0	0	0	0	0
6/19/2024 22:40	46203	DANV_T2	5	0	-5	0.34	0	-0.34	0	0	0	0	0	0	0	0
6/19/2024 22:40	56802	BENV_T2	0	0	0	0	0	0	-1.84	-1.91	0	0	0	0	0	0
6/19/2024 22:40	65604	QVIL_T2	0	0	0	0	0	0	0.74	0.72	0	0	0	0	0	0
6/19/2024 22:40	60501	NMAN_T2	3	3	0	4.63	5.57	0.94	0	0	0	0	0	0	0	0
6/19/2024 22:40	66505	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/19/2024 22:40	14204	EALL_T2	3	0	-3	0.23	0	-0.23	-0.26	-0.28	0	0	0	0	0	0
6/19/2024 22:40	10801	CHHI_T1	0	13	13	0	0.72	0.72	0	0	3	3	0	2100	2100	0
6/19/2024 22:40	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 22:40	12801	MICK_T1	0	0	0	0	0	0	-0.64	-0.66	1	1	0	600	600	0
6/19/2024 22:40	29402	BELT_T1	1	1	0	8.6	9.6	1	0	0	0	0	0	0	0	0
6/19/2024 22:40	65901	SAKR_T2	1	1	0	7.9	8.2	0.3	-1.05	-1.12	2	2	0	1500	1500	0
6/19/2024 22:40	53902	HALI_T2	1	1	0	4.1	5	0.9	0	0	0	0	0	0	0	0
6/19/2024 22:41	60803	BUCK_T1	12	10	-2	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
6/19/2024 22:41	26401	INOR_T1	1	1	0	7	7.4	0.4	0.9	0.87	0	0	0	0	0	0
6/19/2024 22:41	60501	NMAN_T2	3	3	0	4.63	5.57	0.94	0	0	0	0	0	0	0	0
6/19/2024 22:41	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 22:41	52002	LING_T2	0	0	0	0	0	0	1.04	0.95	0	0	0	0	0	0
6/19/2024 22:41	22903	HARW_T1	9	7	-2	0.56	0.47	-0.09	0	0	0	0	0	0	0	0
6/19/2024 22:41	22901	HARW_T1	1	5	4	0.7	0.45	-0.25	-0.15	-0.06	1	1	0	1200	1200	0
6/19/2024 22:41	67203	TEHI_T1	0	0	0	0	0	0	2.12	2.02	3	3	0	2100	2100	0
6/19/2024 22:41	67402	WAKE_T2	0	0	0	0	0	0	-0.06	-0.08	1	1	0	600	600	0
6/19/2024 22:41	22905	HARW_T1	11	11	0	1.64	0.68	-0.96	0	0	0	0	0	0	0	0
6/19/2024 22:41	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/19/2024 22:41	67401	WAKE_T2	0	0	0	0	0	0	-0.77	-0.8	0	0	0	0	0	0
6/19/2024 22:41	60502	NMAN_T2	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
6/19/2024 22:41	47103	MARL_T2	0	0	0	0	0	0	-1.45	-1.47	0	0	0	0	0	0
6/19/2024 22:41	64101	REFR_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
6/19/2024 22:41	52004	LING_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
6/19/2024 22:41	61102	BERK_T5	0	0	0	0	0	0	-0.02	-0.13	2	2	0	1500	1500	0
6/19/2024 22:41	29402	BELT_T1	1	1	0	8.6	9.6	1	0	0	0	0	0	0	0	0
6/19/2024 22:41	60801	BUCK_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
6/19/2024 22:42	64101	REFR_T1	0	0	0	0	0	0	1.61	1.51	0	0	0	0	0	0
6/19/2024 22:42	67602	WARW_T2	1	1	0	0.2	0.3	0.1	0.29	0.25	6	6	0	4500	4500	0
6/19/2024 22:42	10801	CHHI_T1	0	13	13	0	0.72	0.72	0	0	3	3	0	2100	2100	0
6/19/2024 22:42	11804	FRAN_T1	32	37	5	0.74	0.15	-0.59	0.46	0.41	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/19/2024 22:42	67204	TEHI_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
6/19/2024 22:42	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 22:42	65604	QVIL_T2	0	0	0	0	0	0	0.74	0.72	0	0	0	0	0	0
6/19/2024 22:42	61102	BERK_T5	0	0	0	0	0	0	-0.02	-0.13	2	2	0	1500	1500	0
6/19/2024 22:42	40601	PIGR_T1	8	4	-4	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
6/19/2024 22:42	47103	MARL_T2	0	0	0	0	0	0	-1.45	-1.47	0	0	0	0	0	0
6/19/2024 22:42	50701	SMEC_T1	0	0	0	0	0	0	-0.13	-0.19	0	0	0	0	0	0
6/19/2024 22:42	56802	BENV_T2	0	0	0	0	0	0	-0.92	-0.95	0	0	0	0	0	0
6/19/2024 22:42	29402	BELT_T1	1	1	0	8.6	9.6	1	0	0	0	0	0	0	0	0
6/19/2024 22:42	47401	PENS_T1	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
6/19/2024 22:42	40101	HUNT_T2	11	3	-8	0.33	0.1	-0.23	-1.16	-1.19	0	0	0	0	0	0
6/19/2024 22:43	14403	SSLA_T1	1	0	-1	0.3	0	-0.3	1.17	1.11	0	0	0	0	0	0
6/19/2024 22:43	14404	SSLA_T1	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
6/19/2024 22:43	66703	STRA_T1	0	0	0	0	0	0	0.26	0.07	0	0	0	0	0	0
6/19/2024 22:43	67602	WARW_T2	1	1	0	0.2	0.3	0.1	0.1	0.08	2	2	0	1500	1500	0
6/19/2024 22:44	47401	PENS_T1	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
6/19/2024 22:44	20402	ASHF_T2	3	1	-2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/19/2024 22:44	58006	WCAR_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
6/19/2024 22:44	47104	MARL_T1	36	23	-13	1.22	1.42	0.2	0	0	0	0	0	0	0	0
6/19/2024 22:44	64101	REFR_T1	0	0	0	0	0	0	1.2	1.13	0	0	0	0	0	0
6/19/2024 22:44	20601	GRWO_T2	10	3	-7	0.81	1.1	0.29	0.11	0.09	0	0	0	0	0	0
6/19/2024 22:44	12701	MACU_T1	0	0	0	0	0	0	-1.7	-1.77	2	2	0	2400	2400	0
6/19/2024 22:44	20403	ASHF_T2	0	0	0	0	0	0	0.77	0.73	0	0	0	0	0	0
6/19/2024 22:44	47101	MARL_T1	83	50	-33	0.98	1.03	0.05	-1.76	-1.71	1	1	0	600	600	0
6/19/2024 22:44	25503	MADI_T1	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
6/19/2024 22:44	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/19/2024 22:44	67605	WARW_T1	0	0	0	0	0	0	-1.01	-1.04	0	0	0	0	0	0
6/19/2024 22:44	67602	WARW_T2	1	1	0	0.2	0.3	0.1	0.1	0.08	2	2	0	1500	1500	0
6/19/2024 22:45	14404	SSLA_T1	1	1	0	2.9	3.3	0.4	0	0	0	0	0	0	0	0
6/19/2024 22:45	56802	BENV_T2	0	1	1	0	0.3	0.3	-1.84	-1.91	0	0	0	0	0	0
6/19/2024 22:45	10801	CHHI_T1	12	8	-4	0.5	0.2	-0.3	0	0	3	3	0	2100	2100	0
6/19/2024 22:45	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 22:45	47101	MARL_T1	50	32	-18	0.99	1	0.01	-1.76	-1.71	1	1	0	600	600	0
6/19/2024 22:45	67401	WAKE_T2	0	0	0	0	0	0	-0.77	-0.8	0	0	0	0	0	0
6/19/2024 22:45	23401	HONE_T2	0	1	1	0	0	0	-0.66	-0.57	0	0	0	0	0	0
6/19/2024 22:45	21203	ECAR_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
6/19/2024 22:45	14403	SSLA_T1	0	0	0	0	0	0	1.17	1.11	0	0	0	0	0	0
6/19/2024 22:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 22:45	58003	WCAR_T1	1	1	0	1.3	1.4	0.1	0.37	0.35	1	1	0	600	600	0
6/19/2024 22:45	67204	TEHI_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
6/19/2024 22:45	40101	HUNT_T2	3	1	-2	0.2	0	-0.2	-1.16	-1.19	0	0	0	0	0	0
6/19/2024 22:45	47104	MARL_T1	23	23	0	1.77	0.66	-1.11	0	0	0	0	0	0	0	0
6/19/2024 22:45	40601	PIGR_T1	4	16	12	0.15	0.18	0.03	0	0	0	0	0	0	0	0
6/19/2024 22:45	66703	STRA_T1	0	0	0	0	0	0	0.26	0.07	0	0	0	0	0	0
6/19/2024 22:45	58001	WCAR_T1	3	4	1	0.27	0.5	0.23	0	0	0	0	0	0	0	0
6/19/2024 22:46	56801	BENV_T1	6	10	4	1.23	1.17	-0.06	-0.26	-0.29	1	1	0	600	600	0
6/19/2024 22:46	53903	HALI_T2	2	2	0	0.15	0.5	0.35	0	0	0	0	0	0	0	0
6/19/2024 22:46	40601	PIGR_T1	4	16	12	0.15	0.18	0.03	0	0	0	0	0	0	0	0
6/19/2024 22:46	47401	PENS_T1	0	1	1	0	0	0	0.59	0.54	0	0	0	0	0	0
6/19/2024 22:46	67605	WARW_T1	0	0	0	0	0	0	-1.01	-1.04	0	0	0	0	0	0
6/19/2024 22:46	55105	WERT_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/19/2024 22:46	56803	BENV_T1	3	3	0	1.37	1.73	0.36	0	0	0	0	0	0	0	0
6/19/2024 22:46	53902	HALI_T2	1	1	0	4.6	5.1	0.5	0	0	0	0	0	0	0	0
6/19/2024 22:46	44801	EDAN_T2	1	3	2	1.6	1	-0.6	0.86	0.85	0	0	0	0	0	0
6/19/2024 22:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 22:46	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 22:46	41902	REED_T1	4	7	3	0.45	0.37	-0.08	0.54	0.51	1	1	0	900	900	0
6/19/2024 22:46	41901	REED_T1	9	7	-2	0.44	0.26	-0.18	0	0	0	0	0	0	0	0
6/19/2024 22:46	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 22:46	20601	GRWO_T2	3	1	-2	0.53	0.4	-0.13	0.11	0.09	0	0	0	0	0	0
6/19/2024 22:46	55101	WERT_T1	0	0	0	0	0	0	-1.71	-1.72	3	3	0	2400	2400	0
6/19/2024 22:46	53901	HALI_T2	0	0	0	0	0	0	-1.09	-1.12	0	0	0	0	0	0
6/19/2024 22:47	64204	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
6/19/2024 22:47	64201	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
6/19/2024 22:47	64101	REFR_T1	0	0	0	0	0	0	1.2	1.13	0	0	0	0	0	0
6/19/2024 22:47	64202	KINZ_T1	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
6/19/2024 22:47	67402	WAKE_T2	0	0	0	0	0	0	-0.06	-0.08	1	1	0	600	600	0
6/19/2024 22:47	47104	MARL_T1	23	23	0	1.77	0.66	-1.11	0	0	0	0	0	0	0	0
6/19/2024 22:47	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 22:47	47101	MARL_T1	50	32	-18	0.99	1	0.01	-1.76	-1.71	1	1	0	600	600	0
6/19/2024 22:47	67201	TEHI_T1	0	0	0	0	0	0	-0.83	-0.86	1	1	0	900	900	0
6/19/2024 22:47	55101	WERT_T1	0	0	0	0	0	0	-1.71	-1.72	3	3	0	2400	2400	0
6/19/2024 22:47	55105	WERT_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/19/2024 22:47	64203	KINZ_T1	0	0	0	0	0	0	0.01	0	1	1	0	600	600	0
6/19/2024 22:47	46101	MACI_T2	0	0	0	0	0	0	0.81	0.77	0	0	0	0	0	0
6/19/2024 22:47	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/19/2024 22:47	40601	PIGR_T1	4	16	12	0.15	0.18	0.03	0.01	0.01	0	0	0	0	0	0
6/19/2024 22:47	67605	WARW_T1	0	0	0	0	0	0	-1.01	-1.04	0	0	0	0	0	0
6/19/2024 22:48	47401	PENS_T1	0	1	1	0	0	0	0.59	0.54	0	0	0	0	0	0
6/19/2024 22:48	47104	MARL_T1	23	23	0	1.77	0.66	-1.11	0	0	0	0	0	0	0	0
6/19/2024 22:48	46203	DANV_T2	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
6/19/2024 22:48	55101	WERT_T1	0	0	0	0	0	0	-3.42	-3.45	6	6	0	4800	4800	0
6/19/2024 22:48	51101	CARL_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
6/19/2024 22:48	55003	NEWP_T2	0	0	0	0	0	0	-0.99	-1	1	1	0	600	600	0
6/19/2024 22:48	52002	LING_T2	0	0	0	0	0	0	1.04	0.95	0	0	0	0	0	0
6/19/2024 22:48	53903	HALI_T2	2	2	0	0.15	0.5	0.35	-0.11	-0.13	0	0	0	0	0	0
6/19/2024 22:48	53902	HALI_T2	1	1	0	4.6	5.1	0.5	0	0	0	0	0	0	0	0
6/19/2024 22:48	45502	DERR_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
6/19/2024 22:48	46206	DANV_T2	2	5	3	0.9	0.7	-0.2	2.98	2.94	1	1	0	1200	1200	0
6/19/2024 22:48	45501	DERR_T2	0	0	0	0	0	0	0.19	0.18	2	2	0	1800	1800	0
6/19/2024 22:48	55105	WERT_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/19/2024 22:48	47101	MARL_T1	50	32	-18	0.99	1	0.01	-1.76	-1.71	1	1	0	600	600	0
6/19/2024 22:48	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/19/2024 22:48	51108	CARL_T1	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
6/19/2024 22:48	43304	WATS_T2	2	3	1	0.3	0.1	-0.2	-2.34	-2.42	0	0	0	0	0	0
6/19/2024 22:49	47001	HUGH_T2	0	0	0	0	0	0	-3	-3.1	2	2	0	1800	1800	0
6/19/2024 22:49	13105	NHAM_T2	3	1	-2	0.33	0.1	-0.23	-0.9	-0.93	1	1	0	1200	1200	0
6/19/2024 22:49	45402	WBLO_T2	80	41	-39	0.46	0.36	-0.1	-1.12	-1.16	1	1	0	900	900	0
6/19/2024 22:49	43304	WATS_T2	2	3	1	0.3	0.1	-0.2	-0.78	-0.81	0	0	0	0	0	0
6/19/2024 22:49	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/19/2024 22:49	40101	HUNT_T2	3	1	-2	0.2	0	-0.2	-1.16	-1.19	0	0	0	0	0	0
6/19/2024 22:49	47401	PENS_T1	0	1	1	0	0	0	0.3	0.27	0	0	0	0	0	0
6/19/2024 22:49	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 22:49	57401	SPAN_T1	0	0	0	0	0	0	-0.5	-0.52	1	1	0	600	600	0
6/19/2024 22:50	47401	PENS_T1	0	1	1	0	0	0	0.3	0.27	0	0	0	0	0	0
6/19/2024 22:50	46206	DANV_T2	2	5	3	0.9	0.7	-0.2	5.96	5.88	2	2	0	2400	2400	0
6/19/2024 22:50	55105	WERT_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/19/2024 22:50	45501	DERR_T2	0	0	0	0	0	0	0.19	0.18	2	2	0	1800	1800	0
6/19/2024 22:50	40101	HUNT_T2	3	1	-2	0.2	0	-0.2	-1.16	-1.19	0	0	0	0	0	0
6/19/2024 22:50	55101	WERT_T1	0	0	0	0	0	0	-1.71	-1.72	3	3	0	2400	2400	0
6/19/2024 22:50	44801	EDAN_T2	1	3	2	1.6	1	-0.6	1.73	1.7	0	0	0	0	0	0
6/19/2024 22:50	65901	SAXR_T2	1	1	0	7.6	8.7	1.1	-1.05	-1.12	2	2	0	1500	1500	0
6/19/2024 22:51	43304	WATS_T2	2	3	1	0.3	0.1	-0.2	-1.61	-1.67	0	0	0	0	0	0
6/19/2024 22:51	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/19/2024 22:51	58003	WCAR_T1	1	1	0	1.3	1.4	0.1	0.37	0.35	1	1	0	600	600	0
6/19/2024 22:51	58001	WCAR_T1	3	4	1	0.27	0.5	0.23	0	0	0	0	0	0	0	0
6/19/2024 22:51	52403	GRPA_T2	3	3	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
6/19/2024 22:51	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 22:51	40101	HUNT_T2	3	1	-2	0.2	0	-0.2	-1.16	-1.19	0	0	0	0	0	0
6/19/2024 22:51	52402	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/19/2024 22:51	52404	GRPA_T2	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
6/19/2024 22:51	56801	BENV_T1	6	10	4	1.23	1.17	-0.06	-0.26	-0.29	1	1	0	600	600	0
6/19/2024 22:51	46301	ROHR_T1	258	202	-56	0.63	0.49	-0.14	0	0	0	0	0	0	0	0
6/19/2024 22:51	46203	DANV_T2	0	0	0	0	0	0	-0.4	-0.51	0	0	0	0	0	0
6/19/2024 22:51	56803	BENV_T1	3	3	0	1.37	1.73	0.36	0	0	0	0	0	0	0	0
6/19/2024 22:51	45501	DERR_T2	0	0	0	0	0	0	0.18	0.16	2	2	0	1800	1800	0
6/19/2024 22:51	45502	DERR_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
6/19/2024 22:51	41902	REED_T1	4	7	3	0.45	0.37	-0.08	0.54	0.51	1	1	0	900	900	0
6/19/2024 22:51	46206	DANV_T2	2	5	3	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
6/19/2024 22:51	41901	REED_T1	9	7	-2	0.44	0.26	-0.18	0	0	0	0	0	0	0	0
6/19/2024 22:51	46302	ROHR_T1	48	19	-29	0.35	0.47	0.12	0.42	0.41	0	0	0	0	0	0
6/19/2024 22:51	43301	WATS_T2	0	1	1	0	0.1	0.1	-0.17	-0.19	1	1	0	900	900	0
6/19/2024 22:52	56803	BENV_T1	3	3	0	1.37	1.73	0.36	0	0	0	0	0	0	0	0
6/19/2024 22:52	42903	MIDD_T2	0	0	0	0	0	0	-0.94	-0.96	1	1	0	1200	1200	0
6/19/2024 22:52	40101	HUNT_T2	3	1	-2	0.2	0	-0.2	-1.19	-1.23	0	0	0	0	0	0
6/19/2024 22:52	41901	REED_T1	9	7	-2	0.44	0.26	-0.18	0	0	0	0	0	0	0	0
6/19/2024 22:52	44801	EDAN_T2	1	3	2	1.6	1	-0.6	0.85	0.84	0	0	0	0	0	0
6/19/2024 22:52	41902	REED_T1	4	7	3	0.45	0.37	-0.08	0.51	0.49	1	1	0	900	900	0
6/19/2024 22:52	56801	BENV_T1	6	10	4	1.23	1.17	-0.06	-0.29	-0.32	1	1	0	600	600	0
6/19/2024 22:52	47401	PENS_T1	0	1	1	0	0	0	0.54	0.49	0	0	0	0	0	0
6/19/2024 22:53	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/19/2024 22:53	55105	WERT_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/19/2024 22:53	46801	HEPB_T2	2	2	0	0.25	0.3	0.05	0.19	0.16	0	0	0	0	0	0
6/19/2024 22:53	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2024 22:53	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/19/2024 22:53	55101	WERT_T1	0	0	0	0	0	0	-1.72	-1.74	3	3	0	2400	2400	0
6/19/2024 22:53	46803	HEPB_T2	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
6/19/2024 22:53	53903	HALI_T2	2	2	0	0.15	0.5	0.35	-0.07	-0.08	0	0	0	0	0	0
6/19/2024 22:53	45501	DERR_T2	0	0	0	0	0	0	0.18	0.16	2	2	0	1800	1800	0
6/19/2024 22:53	52402	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/19/2024 22:53	52403	GRPA_T2	3	3	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
6/19/2024 22:53	44301	BEAV_T2	2	0	-2	0.65	0	-0.65	1.52	1.65	2	2	0	1200	1200	0
6/19/2024 22:53	53902	HALI_T2	1	1	0	4.6	5.1	0.5	0	0	0	0	0	0	0	0
6/19/2024 22:53	43304	WATS_T2	2	3	1	0.3	0.1	-0.2	-0.81	-0.84	0	0	0	0	0	0
6/19/2024 22:53	52404	GRPA_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
6/19/2024 22:53	42902	MIDD_T2	0	0	0	0	0	0	-0.66	-0.62	1	1	0	600	600	0
6/19/2024 22:54	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/19/2024 22:54	52403	GRPA_T2	3	3	0	0.5	0.45	-0.05	-0.12	-0.14	0	0	0	0	0	0
6/19/2024 22:54	52402	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/19/2024 22:54	52404	GRPA_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
6/19/2024 22:55	44301	BEAV_T2	2	0	-2	0.65	0	-0.65	0.76	0.83	1	1	0	600	600	0
6/19/2024 22:56	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/19/2024 22:56	52403	GRPA_T2	3	3	0	0.5	0.45	-0.05	-0.12	-0.14	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/19/2024 22:56	52402	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/19/2024 22:57	44301	BEAV_T2	2	0	-2	0.65	0	-0.65	0.76	0.83	1	1	0	600	600	0
6/19/2024 22:58	53903	HALI_T2	2	2	0	0.15	0.5	0.35	-0.07	-0.08	0	0	0	0	0	0
6/19/2024 22:58	53902	HALI_T2	1	1	0	4.6	5.1	0.5	0	0	0	0	0	0	0	0
6/19/2024 23:00	54701	NEBL_T1	1	1	0	0.6	1.1	0.5	0	0	1	1	0	600	600	0
6/19/2024 23:04	52402	GRPA_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
6/19/2024 23:04	52403	GRPA_T2	3	3	0	0.4	0.5	0.1	-0.12	-0.14	0	0	0	0	0	0
6/19/2024 23:04	52401	GRPA_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/19/2024 23:04	56501	ROCK_T2	0	2	2	0	0.55	0.55	-0.57	-0.63	0	0	0	0	0	0
6/19/2024 23:04	56504	ROCK_T2	0	0	0	0	0	0	-0.88	-0.92	0	0	0	0	0	0
6/19/2024 23:06	56501	ROCK_T2	0	2	2	0	0.55	0.55	-0.57	-0.63	0	0	0	0	0	0
6/19/2024 23:07	56501	ROCK_T2	0	2	2	0	0.55	0.55	-0.63	-0.67	0	0	0	0	0	0
6/19/2024 23:11	67602	WARW_T2	1	0	-1	0.3	0	-0.3	0.07	0.05	2	2	0	1500	1500	0
6/19/2024 23:25	67605	WARW_T1	0	0	0	0	0	0	-0.97	-0.86	0	0	0	0	0	0
6/19/2024 23:26	67605	WARW_T1	0	0	0	0	0	0	-0.97	-0.86	0	0	0	0	0	0
6/20/2024 1:35	10805	CHHI_T2	1	1	0	8.2	8	-0.2	0	0	1	1	0	600	600	0
6/20/2024 2:21	64203	KINZ_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
6/20/2024 2:21	64204	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
6/20/2024 2:21	64202	KINZ_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/20/2024 2:21	64201	KINZ_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
6/20/2024 2:22	64204	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
6/20/2024 2:22	64202	KINZ_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/20/2024 2:22	64201	KINZ_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
6/20/2024 2:22	64203	KINZ_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
6/20/2024 6:09	67805	WLAN_T1	0	0	0	0	0	0	-1.26	-1.17	0	0	0	0	0	0
6/20/2024 6:25	67805	WLAN_T1	0	0	0	0	0	0	-1.17	-1.09	0	0	0	0	0	0
6/20/2024 6:34	15203	SFAR_T2	0	0	0	0	0	0	-0.97	-0.95	0	0	0	0	0	0
6/20/2024 6:37	67605	WARW_T1	1	10	9	0.2	0.17	-0.03	-0.88	-0.85	0	0	0	0	0	0
6/20/2024 6:40	10705	CATA_T2	0	0	0	0	0	0	-2	-1.98	1	1	0	900	900	0
6/20/2024 6:53	67503	WEWI_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
6/20/2024 6:54	43304	WATS_T2	0	0	0	0	0	0	0.03	-0.56	1	0	-1	600	0	-600
6/20/2024 6:54	67605	WARW_T1	10	1	-9	0.17	0.3	0.13	-0.85	-0.82	0	0	0	0	0	0
6/20/2024 6:55	45501	DERR_T2	6	12	6	0.35	0.5	0.15	1.13	1.16	2	2	0	1800	1800	0
6/20/2024 6:55	57004	WHHI_T2	0	0	0	0	0	0	-0.34	-0.28	0	0	0	0	0	0
6/20/2024 6:55	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/20/2024 6:55	45502	DERR_T2	3	11	8	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
6/20/2024 6:55	29402	BELT_T1	1	1	0	7.2	7	-0.2	0	0	0	0	0	0	0	0
6/20/2024 6:55	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/20/2024 6:59	54505	ENOL_T2	0	0	0	0	0	0	-1.22	-1.19	1	1	0	600	600	0
6/20/2024 7:04	13501	MCMI_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
6/20/2024 7:08	67001	STHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/20/2024 7:08	67002	STHI_T2	0	0	0	0	0	0	0.92	0.96	0	0	0	0	0	0
6/20/2024 7:09	57002	WHHI_T2	0	0	0	0	0	0	-2.18	-2.04	1	1	0	1200	1200	0
6/20/2024 7:09	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/20/2024 7:12	45502	DERR_T2	11	5	-6	0.41	0.43	0.02	0	0	0	0	0	0	0	0
6/20/2024 7:12	45501	DERR_T2	12	2	-10	0.36	0.3	-0.06	1.16	1.15	2	2	0	1800	1800	0
6/20/2024 7:16	67605	WARW_T1	1	1	0	0.2	0.1	-0.1	-0.82	-0.79	0	0	0	0	0	0
6/20/2024 7:17	67605	WARW_T1	1	1	0	0.2	0.1	-0.1	-0.82	-0.79	0	0	0	0	0	0
6/20/2024 7:25	51204	MTON_T2	0	0	0	0	0	0	-1.06	-0.81	1	1	0	600	600	0
6/20/2024 7:30	23401	HONE_T2	2	9	7	0.1	0.7	0.6	0.48	0.64	0	0	0	0	0	0
6/20/2024 7:40	58006	WCAR_T2	0	0	0	0	0	0	-0.79	-0.76	0	0	0	0	0	0
6/20/2024 7:41	40801	EXCH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 7:41	40802	EXCH_T2	0	0	0	0	0	0	-0.38	-0.18	0	0	0	0	0	0
6/20/2024 7:42	40801	EXCH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 7:42	40802	EXCH_T2	0	0	0	0	0	0	-0.76	-0.36	0	0	0	0	0	0
6/20/2024 7:43	46203	DANV_T2	0	0	0	0	0	0	-1.65	-1.62	0	0	0	0	0	0
6/20/2024 7:43	46206	DANV_T2	55	92	37	0.58	0.82	0.24	0	0	0	0	0	0	0	0
6/20/2024 7:46	63305	GREE_T1	0	0	0	0	0	0	-1.85	-1.74	1	1	0	900	900	0
6/20/2024 7:47	12807	MICK_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/20/2024 7:47	12802	MICK_T1	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
6/20/2024 7:49	12802	MICK_T1	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
6/20/2024 7:49	12807	MICK_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/20/2024 7:53	29402	BELT_T1	1	1	0	7.6	7.3	-0.3	0	0	0	0	0	0	0	0
6/20/2024 7:53	20403	ASHF_T2	0	1	1	0	0.1	0.1	1.16	1.3	0	0	0	0	0	0
6/20/2024 7:53	29401	BELT_T1	4	3	-1	0.15	0.13	-0.02	0	0	1	1	0	900	900	0
6/20/2024 7:53	20401	ASHF_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/20/2024 7:55	46206	DANV_T2	79	91	12	0.84	0.6	-0.24	6.01	6.05	2	2	0	2400	2400	0
6/20/2024 7:55	54205	PENN_T1	0	23	23	0	0.13	0.13	0	0	0	0	0	0	0	0
6/20/2024 7:55	54203	PENN_T1	18	21	3	0.26	1.02	0.76	0.5	0.57	0	0	0	0	0	0
6/20/2024 7:55	54201	PENN_T1	18	206	188	0.46	0.48	0.02	0	0	0	0	0	0	0	0
6/20/2024 7:57	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 8:02	40601	PIGR_T1	32	31	-1	0.18	0.16	-0.02	0.01	0.01	0	0	0	0	0	0
6/20/2024 8:02	13503	MCMI_T2	88	0	-88	0.26	0	-0.26	-1.67	0.11	0	0	0	0	0	0
6/20/2024 8:06	40601	PIGR_T1	32	31	-1	0.18	0.16	-0.02	0.01	0.01	0	0	0	0	0	0
6/20/2024 8:09	46206	DANV_T2	90	60	-30	0.86	0.43	-0.43	3.02	3.04	1	1	0	1200	1200	0
6/20/2024 8:09	46204	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 8:10	21203	ECAR_T1	0	0	0	0	0	0	0	0.12	0	0	0	0	0	0
6/20/2024 8:11	46206	DANV_T2	90	60	-30	0.86	0.43	-0.43	3.02	3.04	1	1	0	1200	1200	0
6/20/2024 8:11	46204	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 8:12	23203	HIRU_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
6/20/2024 8:13	46204	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 8:13	23202	HIRU_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
6/20/2024 8:13	46206	DANV_T2	90	60	-30	0.86	0.43	-0.43	3.02	3.04	1	1	0	1200	1200	0
6/20/2024 8:16	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 8:16	58401	MORO_T1	0	0	0	0	0	0	-0.58	-0.55	1	1	0	600	600	0
6/20/2024 8:17	23203	HIRU_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
6/20/2024 8:17	16902	MECK_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
6/20/2024 8:18	43202	MVIL_T2	43	83	40	0.22	0.6	0.38	-1.15	-1.11	0	0	0	0	0	0
6/20/2024 8:18	46302	ROHR_T1	6	8	2	1.02	1.05	0.03	0	0	0	0	0	0	0	0
6/20/2024 8:18	46301	ROHR_T1	1	225	224	0.1	0.43	0.33	0.33	0.34	0	0	0	0	0	0
6/20/2024 8:18	16902	MECK_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
6/20/2024 8:19	58401	MORO_T1	0	0	0	0	0	0	-0.58	-0.55	1	1	0	600	600	0
6/20/2024 8:19	58402	MORO_T1	0	1	1	0	0	0	-0.74	-0.67	3	3	0	2400	2400	0
6/20/2024 8:20	16902	MECK_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
6/20/2024 8:21	57401	SPAN_T1	0	1	1	0	3.9	3.9	0	0	0	0	0	0	0	0
6/20/2024 8:21	58401	MORO_T1	0	0	0	0	0	0	-0.58	-0.55	1	1	0	600	600	0
6/20/2024 8:21	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 8:21	57403	SPAN_T1	5	4	-1	0.16	0.13	-0.03	0.11	0.12	0	0	0	0	0	0
6/20/2024 8:22	57403	SPAN_T1	5	4	-1	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
6/20/2024 8:22	57401	SPAN_T1	0	1	1	0	3.9	3.9	-1.1	-1.06	1	1	0	600	600	0
6/20/2024 8:22	46302	ROHR_T1	6	8	2	1.02	1.05	0.03	0.34	0.35	0	0	0	0	0	0
6/20/2024 8:22	46301	ROHR_T1	1	225	224	0.1	0.43	0.33	0	0	0	0	0	0	0	0
6/20/2024 8:22	56802	BENV_T2	1	1	0	1	0.7	-0.3	-0.38	-0.35	0	0	0	0	0	0
6/20/2024 8:23	46301	ROHR_T1	1	225	224	0.1	0.43	0.33	0.34	0.35	0	0	0	0	0	0
6/20/2024 8:23	46302	ROHR_T1	6	8	2	1.02	1.05	0.03	0	0	0	0	0	0	0	0
6/20/2024 8:23	56802	BENV_T2	1	1	0	1	0.7	-0.3	-0.38	-0.35	0	0	0	0	0	0
6/20/2024 8:24	46301	ROHR_T1	1	225	224	0.1	0.43	0.33	0	0	0	0	0	0	0	0
6/20/2024 8:24	10805	CHHI_T2	2	7	5	4.95	2.18	-2.77	-0.17	-0.01	1	1	0	600	600	0
6/20/2024 8:24	46302	ROHR_T1	6	8	2	1.02	1.05	0.03	0.34	0.35	0	0	0	0	0	0
6/20/2024 8:24	56802	BENV_T2	1	1	0	1	0.7	-0.3	-0.38	-0.35	0	0	0	0	0	0
6/20/2024 8:25	45502	DERR_T2	11	10	-1	0.65	0.74	0.09	0.16	0.16	0	1	1	0	300	300
6/20/2024 8:25	45501	DERR_T2	8	4	-4	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
6/20/2024 8:27	58401	MORO_T1	0	0	0	0	0	0	-0.55	-0.53	1	1	0	600	600	0
6/20/2024 8:27	57403	SPAN_T1	5	4	-1	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
6/20/2024 8:27	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 8:27	57401	SPAN_T1	0	1	1	0	3.9	3.9	-1.1	-1.06	1	1	0	600	600	0
6/20/2024 8:27	10805	CHHI_T2	2	7	5	4.95	2.18	-2.77	-0.17	-0.01	1	1	0	600	600	0
6/20/2024 8:28	10805	CHHI_T2	2	7	5	4.95	2.18	-2.77	-0.17	-0.01	1	1	0	600	600	0
6/20/2024 8:28	56802	BENV_T2	1	1	0	1	0.7	-0.3	-0.38	-0.35	0	0	0	0	0	0
6/20/2024 8:29	56802	BENV_T2	1	1	0	1	0.7	-0.3	-0.38	-0.35	0	0	0	0	0	0
6/20/2024 8:39	67605	WARW_T1	0	0	0	0	0	0	-0.67	-0.81	0	0	0	0	0	0
6/20/2024 8:47	42601	TUSC_T1	0	0	0	0	0	0	0.69	-0.47	2	2	0	1800	1800	0
6/20/2024 8:49	42601	TUSC_T1	0	0	0	0	0	0	0.69	-0.47	2	2	0	1800	1800	0
6/20/2024 8:50	13905	SEID_T1	0	0	0	0	0	0	-0.67	-0.66	1	1	0	1200	1200	0
6/20/2024 8:56	63304	GREE_T1	0	0	0	0	0	0	-1.16	-1.07	0	0	0	0	0	0
6/20/2024 8:56	41502	FAIR_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
6/20/2024 8:57	52403	GRPA_T2	2	3	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/20/2024 8:57	10805	CHHI_T2	7	16	9	1.69	1.6	-0.09	-0.03	0.09	1	1	0	600	600	0
6/20/2024 8:57	52404	GRPA_T2	0	0	0	0	0	0	0.74	0.45	0	0	0	0	0	0
6/20/2024 8:57	52402	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 8:58	47001	HUGH_T2	0	0	0	0	0	0	-0.47	-0.41	0	0	0	0	0	0
6/20/2024 9:01	52403	GRPA_T2	2	5	3	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
6/20/2024 9:01	52404	GRPA_T2	0	0	0	0	0	0	0.74	0.45	0	0	0	0	0	0
6/20/2024 9:01	13503	MCMI_T2	24	65	41	0.24	0.24	0	-0.76	-0.75	0	0	0	0	0	0
6/20/2024 9:01	63304	GREE_T1	0	0	0	0	0	0	-1.16	-1.07	0	0	0	0	0	0
6/20/2024 9:03	13503	MCMI_T2	24	65	41	0.24	0.24	0	-0.76	-0.75	0	0	0	0	0	0
6/20/2024 9:03	47001	HUGH_T2	0	0	0	0	0	0	-0.47	-0.41	0	0	0	0	0	0
6/20/2024 9:05	67605	WARW_T1	0	0	0	0	0	0	-0.81	-0.8	0	0	0	0	0	0
6/20/2024 9:07	67605	WARW_T1	0	0	0	0	0	0	-0.8	-0.78	0	0	0	0	0	0
6/20/2024 9:09	29402	BELT_T1	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
6/20/2024 9:09	29401	BELT_T1	0	2	2	0	0.15	0.15	0	0	1	1	0	900	900	0
6/20/2024 9:11	10805	CHHI_T2	12	31	19	1.19	1.52	0.33	0.09	0.1	1	1	0	600	600	0
6/20/2024 9:12	56802	BENV_T2	1	0	-1	0.5	0	-0.5	-0.29	-0.29	0	0	0	0	0	0
6/20/2024 9:14	13501	MCMI_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
6/20/2024 9:15	47101	MARL_T1	13	25	12	0.28	0.45	0.17	-0.76	-0.85	1	1	0	600	600	0
6/20/2024 9:17	47101	MARL_T1	13	25	12	0.28	0.45	0.17	-0.76	-0.85	1	1	0	600	600	0
6/20/2024 9:18	47101	MARL_T1	13	25	12	0.28	0.45	0.17	-0.76	-0.85	1	1	0	600	600	0
6/20/2024 9:19	47401	PENS_T1	5	5	0	0.9	1.05	0.15	0.3	0.31	0	0	0	0	0	0
6/20/2024 9:19	47403	PENS_T1	0	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0
6/20/2024 9:19	47101	MARL_T1	13	25	12	0.28	0.45	0.17	-0.76	-0.85	1	1	0	600	600	0
6/20/2024 9:21	47401	PENS_T1	5	5	0	0.9	1.05	0.15	0.31	0.38	0	0	0	0	0	0
6/20/2024 9:21	47403	PENS_T1	0	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0
6/20/2024 9:21	48302	ORWI_T2	2	2	0	0.15	0.25	0.1	-0.22	-0.2	0	0	0	0	0	0
6/20/2024 9:21	67201	TEHI_T1	0	12	12	0	0.2	0.2	0	0	0	0	0	0	0	0
6/20/2024 9:21	67203	TEHI_T1	0	2	2	0	0.3	0.3	2.19	2.33	4	4	0	3000	3000	0
6/20/2024 9:23	57002	WHHI_T2	0	0	0	0	0	0	-1.73	-1.7	1	1	0	1200	1200	0
6/20/2024 9:23	43304	WATS_T2	0	1	1	0	0	0	-0.32	-0.2	0	0	0	0	0	0
6/20/2024 9:23	57006	WHHI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/20/2024 9:24	57006	WHHI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/20/2024 9:24	57002	WHHI_T2	0	0	0	0	0	0	-1.73	-1.7	1	1	0	1200	1200	0
6/20/2024 9:26	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
6/20/2024 9:26	17002	RIRO_T2	2	2	0	0.35	0.7	0.35	0.97	1	0	0	0	0	0	0
6/20/2024 9:27	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/20/2024 9:29	46801	HEPB_T2	0	2	2	0	0.95	0.95	0.44	0.24	0	0	0	0	0	0
6/20/2024 9:29	46803	HEPB_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/20/2024 9:30	64203	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
6/20/2024 9:30	64204	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
6/20/2024 9:30	47101	MARL_T1	24	43	19	0.72	0.47	-0.25	-1.69	-1.34	2	2	0	1200	1200	0
6/20/2024 9:30	64201	KINZ_T1	0	0	0	0	0	0	-0.28	-0.3	4	4	0	2100	2100	0
6/20/2024 9:30	47104	MARL_T1	0	25	25	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 9:31	43202	MVIL_T2	56	40	-16	0.52	0.28	-0.24	-0.32	-0.29	0	0	0	0	0	0
6/20/2024 9:32	48302	ORWI_T2	2	2	0	0.25	0.25	0	-0.2	-0.17	0	0	0	0	0	0
6/20/2024 9:33	43202	MVIL_T2	56	40	-16	0.52	0.28	-0.24	-0.32	-0.29	0	0	0	0	0	0
6/20/2024 9:34	47403	PENS_T1	2	2	0	0.9	1.15	0.25	0	0	0	0	0	0	0	0
6/20/2024 9:34	47401	PENS_T1	4	4	0	1.05	1.08	0.03	0.31	0.38	0	0	0	0	0	0
6/20/2024 9:35	47401	PENS_T1	4	4	0	1.05	1.08	0.03	0.31	0.38	0	0	0	0	0	0
6/20/2024 9:35	60501	NMAN_T2	3	3	0	3.87	3.83	-0.04	0	0	0	0	0	0	0	0
6/20/2024 9:35	47403	PENS_T1	2	2	0	0.9	1.15	0.25	0	0	0	0	0	0	0	0
6/20/2024 9:35	60502	NMAN_T2	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
6/20/2024 9:36	41903	REED_T1	1	4	3	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/20/2024 9:36	41902	REED_T1	0	4	4	0	0.2	0.2	0.52	0.53	1	1	0	900	900	0
6/20/2024 9:37	60502	NMAN_T2	0	0	0	0	0	0	0.57	0.62	0	0	0	0	0	0
6/20/2024 9:37	60501	NMAN_T2	3	3	0	3.87	3.83	-0.04	0	0	0	0	0	0	0	0
6/20/2024 9:37	41902	REED_T1	0	4	4	0	0.2	0.2	0.53	0.55	1	1	0	900	900	0
6/20/2024 9:37	41903	REED_T1	1	4	3	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/20/2024 9:37	47401	PENS_T1	4	4	0	1.05	1.08	0.03	0.38	0.35	0	0	0	0	0	0
6/20/2024 9:37	47403	PENS_T1	2	2	0	0.9	1.15	0.25	0	0	0	0	0	0	0	0
6/20/2024 9:39	51108	CARL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/20/2024 9:39	51101	CARL_T1	1	1	0	8.8	9	0.2	0	0	0	0	0	0	0	0
6/20/2024 9:43	40101	HUNT_T2	28	109	81	0.38	0.48	0.1	-0.03	-0.08	0	0	0	0	0	0
6/20/2024 9:44	46803	HEPB_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/20/2024 9:44	46801	HEPB_T2	2	2	0	0.25	0.95	0.7	0.24	0.24	0	0	0	0	0	0
6/20/2024 9:45	40101	HUNT_T2	72	87	15	0.45	0.91	0.46	-0.03	-0.08	0	0	0	0	0	0
6/20/2024 9:46	43201	MVIL_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
6/20/2024 9:46	47101	MARL_T1	16	89	73	0.55	1.02	0.47	-1.34	-1.46	2	2	0	1200	1200	0
6/20/2024 9:46	43202	MVIL_T2	40	30	-10	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
6/20/2024 9:46	47104	MARL_T1	0	26	26	0	0.47	0.47	0	0	0	0	0	0	0	0
6/20/2024 9:47	20603	GRWO_T2	4	0	-4	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 9:47	20601	GRWO_T2	30	66	36	0.47	0.46	-0.01	0.5	0.52	0	0	0	0	0	0
6/20/2024 9:48	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 9:48	47401	PENS_T1	4	7	3	1.08	1.4	0.32	0.38	0.35	0	0	0	0	0	0
6/20/2024 9:48	20601	GRWO_T2	30	66	36	0.47	0.46	-0.01	0.5	0.52	0	0	0	0	0	0
6/20/2024 9:48	20603	GRWO_T2	4	0	-4	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 9:48	47403	PENS_T1	2	1	-1	1.15	2.1	0.95	0	0	0	0	0	0	0	0
6/20/2024 9:50	56504	ROCK_T2	0	4	4	0	0.6	0.6	0	0	0	0	0	0	0	0
6/20/2024 9:50	47401	PENS_T1	4	7	3	1.08	1.4	0.32	0.38	0.35	0	0	0	0	0	0
6/20/2024 9:50	56501	ROCK_T2	0	1	1	0	0	0	-0.77	-0.73	0	0	0	0	0	0
6/20/2024 9:50	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 9:50	47403	PENS_T1	2	1	-1	1.15	2.1	0.95	0	0	0	0	0	0	0	0
6/20/2024 9:52	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 9:52	56501	ROCK_T2	0	1	1	0	0	0	-1.46	-1.37	0	0	0	0	0	0
6/20/2024 9:52	47401	PENS_T1	4	7	3	1.08	1.4	0.32	0.35	0.47	0	0	0	0	0	0
6/20/2024 9:52	56504	ROCK_T2	0	4	4	0	0.6	0.6	0	0	0	0	0	0	0	0
6/20/2024 9:52	47403	PENS_T1	2	1	-1	1.15	2.1	0.95	0	0	0	0	0	0	0	0
6/20/2024 9:53	56501	ROCK_T2	0	1	1	0	0	0	-0.73	-0.69	0	0	0	0	0	0
6/20/2024 9:53	56504	ROCK_T2	0	4	4	0	0.6	0.6	0	0	0	0	0	0	0	0
6/20/2024 9:54	10602	BLGL_T2	15	35	20	1.09	0.81	-0.28	2.14	2.16	0	0	0	0	0	0
6/20/2024 10:00	64203	KINZ_T1	1	2	1	1	1	0	0.7	0.77	3	3	0	2100	2100	0
6/20/2024 10:00	40504	CRES_T1	12	13	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/20/2024 10:00	40505	CRES_T1	3	0	-3	1.6	1.5	-0.1	0.76	0.73	0	0	0	0	0	0
6/20/2024 10:00	64204	KINZ_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
6/20/2024 10:00	47104	MARL_T1	25	24	-1	0.47	0.1	-0.37	0	0	0	0	0	0	0	0
6/20/2024 10:00	67502	WEWI_T2	0	1	1	0	0.1	0.1	-0.59	-0.58	1	1	0	900	900	0
6/20/2024 10:00	64201	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 10:00	56504	ROCK_T2	3	4	1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
6/20/2024 10:00	47101	MARL_T1	42	98	56	1	0.74	-0.26	-1.46	-1.38	2	2	0	1200	1200	0
6/20/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	1.25	1.31	0	0	0	0	0	0
6/20/2024 10:00	65401	MARI_T1	8	0	-8	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/20/2024 10:00	40602	PIGR_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/20/2024 10:00	56501	ROCK_T2	1	0	-1	0.2	0	-0.2	-1.46	-1.37	0	0	0	0	0	0
6/20/2024 10:00	65402	MARI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/20/2024 10:00	20601	GRWO_T2	52	64	12	0.58	0.51	-0.07	1.04	1.08	0	0	0	0	0	0
6/20/2024 10:00	41903	REED_T1	4	4	0	1.1	0.25	-0.85	0	0	0	0	0	0	0	0
6/20/2024 10:00	67602	WARW_T2	0	0	0	0	0	0	0.2	0.22	2	2	0	1500	1500	0
6/20/2024 10:00	10705	CATA_T2	1	1	0	1.3	0.6	-0.7	-1.43	-1.33	1	1	0	900	900	0
6/20/2024 10:00	40601	PIGR_T1	4	7	3	0.3	0.36	0.06	0.01	0.01	0	0	0	0	0	0
6/20/2024 10:00	60501	NMAN_T2	3	3	0	3.7	3.9	0.2	0	0	0	0	0	0	0	0
6/20/2024 10:00	41901	REED_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/20/2024 10:00	41902	REED_T1	1	1	0	0.2	0	-0.2	0.55	0.55	1	1	0	900	900	0
6/20/2024 10:00	10701	CATA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 10:06	40602	PIGR_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/20/2024 10:06	40601	PIGR_T1	4	7	3	0.3	0.36	0.06	0.01	0.01	0	0	0	0	0	0
6/20/2024 10:07	41901	REED_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/20/2024 10:07	56504	ROCK_T2	3	4	1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
6/20/2024 10:07	41903	REED_T1	4	4	0	1.1	0.25	-0.85	0	0	0	0	0	0	0	0
6/20/2024 10:07	41902	REED_T1	1	1	0	0.2	0	-0.2	0.55	0.63	1	1	0	900	900	0
6/20/2024 10:07	56501	ROCK_T2	1	0	-1	0.2	0	-0.2	-0.69	-0.64	0	0	0	0	0	0
6/20/2024 10:08	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/20/2024 10:08	56802	BENV_T2	0	0	0	0	0	0	-0.24	-0.21	0	0	0	0	0	0
6/20/2024 10:08	44301	BEAV_T2	1	1	0	0.2	0.4	0.2	0.71	0.62	2	2	0	1500	1500	0
6/20/2024 10:08	56801	BENV_T1	3	2	-1	0.4	0.45	0.05	-0.4	-0.38	1	1	0	600	600	0
6/20/2024 10:08	67503	WEWI_T2	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
6/20/2024 10:08	67201	TEHI_T1	8	16	8	0.36	0.41	0.05	0	0	0	0	0	0	0	0
6/20/2024 10:08	20401	ASHF_T2	4	5	1	0.83	0.63	-0.2	0	0	0	0	0	0	0	0
6/20/2024 10:08	20403	ASHF_T2	2	7	5	0.15	0.95	0.8	1.45	1.65	0	0	0	0	0	0
6/20/2024 10:08	67605	WARW_T1	0	1	1	0	0.6	0.6	-1.43	-1.22	0	0	0	0	0	0
6/20/2024 10:08	10801	CHHI_T1	5	6	1	0.6	0.43	-0.17	-0.56	-0.43	2	2	0	1500	1500	0
6/20/2024 10:08	56504	ROCK_T2	3	4	1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
6/20/2024 10:08	67203	TEHI_T1	7	6	-1	0.51	0.43	-0.08	2.29	2.24	4	4	0	3000	3000	0
6/20/2024 10:08	20402	ASHF_T2	6	6	0	1.1	0.2	-0.9	0	0	0	0	0	0	0	0
6/20/2024 10:08	56803	BENV_T1	1	5	4	2.6	1.1	-1.5	0	0	0	0	0	0	0	0
6/20/2024 10:08	17002	RIRO_T2	2	2	0	0.6	0.9	0.3	1.05	1.12	0	0	0	0	0	0
6/20/2024 10:08	56501	ROCK_T2	1	0	-1	0.2	0	-0.2	-1.37	-1.29	0	0	0	0	0	0
6/20/2024 10:09	56504	ROCK_T2	3	4	1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
6/20/2024 10:09	56501	ROCK_T2	1	0	-1	0.2	0	-0.2	-0.69	-0.64	0	0	0	0	0	0
6/20/2024 10:09	56802	BENV_T2	0	0	0	0	0	0	-0.47	-0.42	0	0	0	0	0	0
6/20/2024 10:09	10801	CHHI_T1	5	6	1	0.6	0.43	-0.17	-0.56	-0.43	2	2	0	1500	1500	0
6/20/2024 10:09	44301	BEAV_T2	1	1	0	0.2	0.4	0.2	1.42	1.24	4	4	0	3000	3000	0
6/20/2024 10:09	67605	WARW_T1	0	1	1	0	0.6	0.6	-1.43	-1.22	0	0	0	0	0	0
6/20/2024 10:09	10805	CHHI_T2	35	79	44	0.94	0.98	0.04	0.12	0.3	1	1	0	600	600	0
6/20/2024 10:10	44301	BEAV_T2	1	1	0	0.2	0.4	0.2	1.42	1.24	4	4	0	3000	3000	0
6/20/2024 10:10	10805	CHHI_T2	35	79	44	0.94	0.98	0.04	0.12	0.3	1	1	0	600	600	0
6/20/2024 10:10	46206	DANV_T2	71	95	24	0.75	0.79	0.04	3.5	3.51	1	1	0	1200	1200	0
6/20/2024 10:10	20401	ASHF_T2	4	5	1	0.83	0.63	-0.2	0.42	0.48	0	0	0	0	0	0
6/20/2024 10:10	56802	BENV_T2	0	0	0	0	0	0	-0.47	-0.42	0	0	0	0	0	0
6/20/2024 10:10	67602	WARW_T2	0	0	0	0	0	0	0.44	0.47	4	4	0	3000	3000	0
6/20/2024 10:10	20402	ASHF_T2	6	6	0	1.1	0.2	-0.9	0	0	0	0	0	0	0	0
6/20/2024 10:10	21203	ECAR_T1	1	1	0	0.9	0	-0.9	0.12	0.11	0	0	0	0	0	0
6/20/2024 10:10	20403	ASHF_T2	2	7	5	0.15	0.95	0.8	1.45	1.65	0	0	0	0	0	0
6/20/2024 10:11	52403	GRPA_T2	12	22	10	0.79	0.63	-0.16	0	0	0	0	0	0	0	0
6/20/2024 10:11	52402	GRPA_T2	1	1	0	0.4	0	-0.4	-0.65	-0.61	0	0	0	0	0	0
6/20/2024 10:11	46206	DANV_T2	71	95	24	0.75	0.79	0.04	0	0	0	0	0	0	0	0
6/20/2024 10:11	45501	DERR_T2	15	18	3	0.5	0.6	0.1	2.58	2.33	4	4	0	3600	3600	0
6/20/2024 10:11	46203	DANV_T2	0	0	0	0	0	0	-0.73	-1.27	0	0	0	0	0	0
6/20/2024 10:11	52404	GRPA_T2	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/20/2024 10:11	45502	DERR_T2	9	15	6	0.66	0.64	-0.02	0.11	0.11	1	1	0	300	300	0
6/20/2024 10:12	20401	ASHF_T2	4	5	1	0.83	0.63	-0.2	0	0	0	0	0	0	0	0
6/20/2024 10:12	20403	ASHF_T2	2	7	5	0.15	0.95	0.8	4.35	4.96	0	0	0	0	0	0
6/20/2024 10:12	20402	ASHF_T2	6	6	0	1.1	0.2	-0.9	0	0	0	0	0	0	0	0
6/20/2024 10:13	52404	GRPA_T2	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/20/2024 10:13	10805	CHHI_T2	35	79	44	0.94	0.98	0.04	0.12	0.3	1	1	0	600	600	0
6/20/2024 10:13	52402	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/20/2024 10:13	47001	HUGH_T2	1	0	-1	0.7	0	-0.7	-0.37	-0.33	0	0	0	0	0	0
6/20/2024 10:13	61801	EELI_T2	1	1	0	1.5	0	-1.5	-0.17	-0.15	1	1	0	600	600	0
6/20/2024 10:13	52403	GRPA_T2	12	22	10	0.79	0.63	-0.16	-0.02	-0.03	0	0	0	0	0	0
6/20/2024 10:14	61801	EELI_T2	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
6/20/2024 10:14	52402	GRPA_T2	1	1	0	0.4	0	-0.4	-0.65	-0.61	0	0	0	0	0	0
6/20/2024 10:14	46206	DANV_T2	71	95	24	0.75	0.79	0.04	3.5	3.51	1	1	0	1200	1200	0
6/20/2024 10:14	61803	EELI_T2	0	0	0	0	0	0	0.85	0.88	1	1	0	600	600	0
6/20/2024 10:14	46101	MACI_T2	0	0	0	0	0	0	-0.53	-0.67	2	2	0	2400	2400	0
6/20/2024 10:14	52403	GRPA_T2	12	22	10	0.79	0.63	-0.16	0	0	0	0	0	0	0	0
6/20/2024 10:14	52404	GRPA_T2	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/20/2024 10:15	53903	HALI_T2	3	3	0	0.97	0.7	-0.27	0.07	0.09	0	0	0	0	0	0
6/20/2024 10:15	53901	HALI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 10:15	47104	MARL_T1	24	9	-15	0.83	0	-0.83	0	0	0	0	0	0	0	0
6/20/2024 10:15	47101	MARL_T1	87	80	-7	0.81	0.4	-0.41	-0.69	-0.67	1	1	0	600	600	0
6/20/2024 10:15	53902	HALI_T2	2	1	-1	2.5	4.5	2	0	0	0	0	0	0	0	0
6/20/2024 10:16	47101	MARL_T1	87	80	-7	0.81	0.4	-0.41	-0.69	-0.67	1	1	0	600	600	0
6/20/2024 10:16	46801	HEPB_T2	2	2	0	0.8	0.65	-0.15	0.29	0.32	0	0	0	0	0	0
6/20/2024 10:16	47104	MARL_T1	24	9	-15	0.83	0	-0.83	0	0	0	0	0	0	0	0
6/20/2024 10:17	43202	MVIL_T2	25	6	-19	0.22	0.32	0.1	0	0	0	0	0	0	0	0
6/20/2024 10:17	47101	MARL_T1	87	80	-7	0.81	0.4	-0.41	-2.06	-2.01	3	3	0	1800	1800	0
6/20/2024 10:17	43201	MVIL_T2	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
6/20/2024 10:17	47001	HUGH_T2	0	0	0	0	0	0	-0.37	-0.33	0	0	0	0	0	0
6/20/2024 10:17	46506	LOHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/20/2024 10:17	13503	MCMI_T2	4	3	-1	0.5	0.47	-0.03	-0.69	-0.67	0	0	0	0	0	0
6/20/2024 10:17	47104	MARL_T1	24	9	-15	0.83	0	-0.83	0	0	0	0	0	0	0	0
6/20/2024 10:17	46504	LOHA_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 10:17	46501	LOHA_T1	2	2	0	0.45	0	-0.45	0	0	0	0	0	0	0	0
6/20/2024 10:17	46505	LOHA_T1	0	0	0	0	0	0	0.54	-0.09	0	1	1	0	600	600
6/20/2024 10:18	43202	MVIL_T2	25	6	-19	0.22	0.32	0.1	0	0	0	0	0	0	0	0
6/20/2024 10:18	43201	MVIL_T2	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
6/20/2024 10:18	47101	MARL_T1	87	80	-7	0.81	0.4	-0.41	-0.69	-0.67	1	1	0	600	600	0
6/20/2024 10:18	47104	MARL_T1	24	9	-15	0.83	0	-0.83	0	0	0	0	0	0	0	0
6/20/2024 10:19	54201	PENN_T1	11	4	-7	0.55	0.73	0.18	-1.66	-1.61	0	0	0	0	0	0
6/20/2024 10:19	47401	PENS_T1	6	15	9	1.02	0.68	-0.34	0.47	0.44	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/20/2024 10:19	47402	PENS_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/20/2024 10:19	46302	ROHR_T1	2	5	3	2.8	1.38	-1.42	0	0	0	0	0	0	0	0
6/20/2024 10:19	43201	MVIL_T2	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
6/20/2024 10:19	47403	PENS_T1	1	1	0	2	1.9	-0.1	0	0	0	0	0	0	0	0
6/20/2024 10:19	54203	PENN_T1	5	5	0	0.48	0.42	-0.06	0	0	0	0	0	0	0	0
6/20/2024 10:19	43202	MVIL_T2	25	6	-19	0.22	0.32	0.1	-0.28	-0.27	0	0	0	0	0	0
6/20/2024 10:19	46301	ROHR_T1	117	70	-47	0.29	0.24	-0.05	0.82	0.84	0	0	0	0	0	0
6/20/2024 10:20	13503	MCMI_T2	4	3	-1	0.5	0.47	-0.03	-0.69	-0.67	0	0	0	0	0	0
6/20/2024 10:20	47401	PENS_T1	6	15	9	1.02	0.68	-0.34	0.47	0.44	0	0	0	0	0	0
6/20/2024 10:20	47402	PENS_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/20/2024 10:20	46301	ROHR_T1	117	70	-47	0.29	0.24	-0.05	0	0	0	0	0	0	0	0
6/20/2024 10:20	46302	ROHR_T1	2	5	3	2.8	1.38	-1.42	0.41	0.42	0	0	0	0	0	0
6/20/2024 10:20	47403	PENS_T1	1	1	0	2	1.9	-0.1	0	0	0	0	0	0	0	0
6/20/2024 10:21	40602	PIGR_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/20/2024 10:21	43202	MVIL_T2	25	6	-19	0.22	0.32	0.1	-0.27	-0.27	0	0	0	0	0	0
6/20/2024 10:21	40601	PIGR_T1	6	6	0	0.38	0.43	0.05	0.01	0.01	0	0	0	0	0	0
6/20/2024 10:21	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 10:22	61102	BERK_T5	0	0	0	0	0	0	0.85	0.81	1	1	0	300	300	0
6/20/2024 10:23	61102	BERK_T5	0	0	0	0	0	0	1.7	1.62	2	2	0	600	600	0
6/20/2024 10:23	46302	ROHR_T1	2	5	3	2.8	1.38	-1.42	0.42	0.43	0	0	0	0	0	0
6/20/2024 10:23	46301	ROHR_T1	117	70	-47	0.29	0.24	-0.05	0	0	0	0	0	0	0	0
6/20/2024 10:24	61102	BERK_T5	0	0	0	0	0	0	2.55	2.43	3	3	0	900	900	0
6/20/2024 10:25	61102	BERK_T5	0	0	0	0	0	0	0.85	0.81	1	1	0	300	300	0
6/20/2024 10:26	24902	WHHA_T1	1	2	1	1.2	1.5	0.3	1.62	1.65	0	0	0	0	0	0
6/20/2024 10:27	61102	BERK_T5	0	0	0	0	0	0	1.7	1.62	2	2	0	600	600	0
6/20/2024 10:28	64203	KINZ_T1	2	2	0	1	1.05	0.05	0	0	0	0	0	0	0	0
6/20/2024 10:28	11804	FRAN_T1	0	8	8	0	0.13	0.13	1.79	1.87	0	0	0	0	0	0
6/20/2024 10:28	64201	KINZ_T1	0	12	12	0	0.3	0.3	0.12	0.33	4	4	0	2100	2100	0
6/20/2024 10:28	64204	KINZ_T1	1	1	0	0.5	1.2	0.7	0	0	0	0	0	0	0	0
6/20/2024 10:29	23401	HONE_T2	32	96	64	0.4	0.35	-0.05	0.91	0.88	0	0	0	0	0	0
6/20/2024 10:29	58001	WCAR_T1	3	5	2	0.37	0	-0.37	0	0	0	0	0	0	0	0
6/20/2024 10:29	53601	DALM_T2	1	2	1	0.6	0.8	0.2	-0.07	-0.66	2	2	0	1500	1500	0
6/20/2024 10:29	58003	WCAR_T1	5	2	-3	0.24	0.15	-0.09	0.09	0.13	1	1	0	600	600	0
6/20/2024 10:29	46101	MACI_T2	0	0	0	0	0	0	-0.67	-0.47	2	2	0	2400	2400	0
6/20/2024 10:30	52004	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/20/2024 10:30	42901	MIDD_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/20/2024 10:30	42903	MIDD_T2	0	0	0	0	0	0	0.67	0.88	1	1	0	1200	1200	0
6/20/2024 10:30	42902	MIDD_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
6/20/2024 10:30	52002	LING_T2	0	0	0	0	0	0	0.54	0.57	0	0	0	0	0	0
6/20/2024 10:30	58001	WCAR_T1	0	9	9	0	0.53	0.53	0	0	0	0	0	0	0	0
6/20/2024 10:30	58003	WCAR_T1	2	2	0	0.15	0.25	0.1	0.09	0.13	1	1	0	600	600	0
6/20/2024 10:31	46803	HEPB_T2	0	0	0	0	0	0	0.75	0.77	0	0	0	0	0	0
6/20/2024 10:31	46801	HEPB_T2	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
6/20/2024 10:32	25501	MADI_T1	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
6/20/2024 10:32	40101	HUNT_T2	31	104	73	0.6	0.46	-0.14	-0.43	-0.42	0	0	0	0	0	0
6/20/2024 10:32	47403	PENS_T1	1	1	0	1.9	2.1	0.2	0	0	0	0	0	0	0	0
6/20/2024 10:32	51102	CARL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/20/2024 10:32	23202	HIRU_T2	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
6/20/2024 10:32	47402	PENS_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
6/20/2024 10:32	52002	LING_T2	0	0	0	0	0	0	1.09	1.14	0	0	0	0	0	0
6/20/2024 10:32	51104	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 10:32	25503	MADI_T1	0	0	0	0	0	0	-0.55	-0.5	0	0	0	0	0	0
6/20/2024 10:32	51101	CARL_T1	1	1	0	9.4	9.7	0.3	0	0	0	0	0	0	0	0
6/20/2024 10:32	23203	HIRU_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/20/2024 10:32	61102	BERK_T5	0	0	0	0	0	0	0.85	0.81	1	1	0	300	300	0
6/20/2024 10:32	52004	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/20/2024 10:32	47401	PENS_T1	7	16	9	1.23	0.69	-0.54	0.44	0.16	0	0	0	0	0	0
6/20/2024 10:32	25502	MADI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 10:33	51101	CARL_T1	1	1	0	9.4	9.7	0.3	0	0	0	0	0	0	0	0
6/20/2024 10:33	51108	CARL_T1	0	0	0	0	0	0	0	-0.01	1	1	0	600	600	0
6/20/2024 10:33	51102	CARL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/20/2024 10:34	52001	LING_T2	0	0	0	0	0	0	0.54	0.57	0	0	0	0	0	0
6/20/2024 10:34	64101	REFR_T1	0	3	3	0	0	0	0.5	0.38	0	0	0	0	0	0
6/20/2024 10:34	52004	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/20/2024 10:36	40602	PIGR_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/20/2024 10:36	40601	PIGR_T1	6	3	-3	0.4	0.53	0.13	0	0	0	0	0	0	0	0
6/20/2024 10:36	64101	REFR_T1	0	3	3	0	0	0	1.9	2.19	0	0	0	0	0	0
6/20/2024 10:36	55103	WERT_T1	2	2	0	3.2	5	1.8	0	0	0	0	0	0	0	0
6/20/2024 10:36	55101	WERT_T1	0	0	0	0	0	0	-1.86	-1.75	4	4	0	3300	3300	0
6/20/2024 10:37	43304	WATS_T2	2	2	0	0.4	0	-0.4	-0.41	-0.39	1	1	0	600	600	0
6/20/2024 10:37	44601	SALE_T2	0	0	0	0	0	0	0.47	0.66	1	1	0	600	600	0
6/20/2024 10:37	55101	WERT_T1	0	0	0	0	0	0	-1.75	-1.8	4	4	0	3300	3300	0
6/20/2024 10:37	55103	WERT_T1	2	2	0	3.2	5	1.8	0	0	0	0	0	0	0	0
6/20/2024 10:38	11102	EGYP_T1	4	8	4	1.63	1.67	0.04	0	0	0	0	0	0	0	0
6/20/2024 10:38	67804	WLAN_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/20/2024 10:38	29402	BELT_T1	2	3	1	4.4	3.07	-1.33	0	0	0	0	0	0	0	0
6/20/2024 10:38	44601	SALE_T2	0	0	0	0	0	0	0.47	0.66	1	1	0	600	600	0
6/20/2024 10:38	64101	REFR_T1	0	3	3	0	0	0	0.76	0.88	0	0	0	0	0	0
6/20/2024 10:38	67801	WLAN_T1	0	0	0	0	0	0	0.35	0.28	0	0	0	0	0	0
6/20/2024 10:38	29401	BELT_T1	22	5	-17	0.15	0.3	0.15	0	0	1	1	0	900	900	0
6/20/2024 10:38	11104	EGYP_T1	6	7	1	1.3	1.12	-0.18	0.95	0.98	0	0	0	0	0	0
6/20/2024 10:39	64101	REFR_T1	0	3	3	0	0	0	0.38	0.44	0	0	0	0	0	0
6/20/2024 10:39	56803	BENV_T1	4	0	-4	1.08	0	-1.08	0	0	0	0	0	0	0	0
6/20/2024 10:39	67605	WARW_T1	1	1	0	0.6	0.3	-0.3	-0.58	-0.55	0	0	0	0	0	0
6/20/2024 10:39	55103	WERT_T1	2	2	0	3.2	5	1.8	0	0	0	0	0	0	0	0
6/20/2024 10:39	55101	WERT_T1	0	0	0	0	0	0	-3.5	-3.6	8	8	0	6600	6600	0
6/20/2024 10:39	56801	BENV_T1	1	5	4	0.7	0.58	-0.12	-0.35	-0.33	1	1	0	600	600	0
6/20/2024 10:40	29401	BELT_T1	22	5	-17	0.15	0.3	0.15	0	0	1	1	0	900	900	0
6/20/2024 10:40	46206	DANV_T2	92	104	12	0.84	0.78	-0.06	3.48	3.46	1	1	0	1200	1200	0
6/20/2024 10:40	46204	DANV_T2	0	14	14	0	0.1	0.1	0	0	0	0	0	0	0	0
6/20/2024 10:40	29402	BELT_T1	2	3	1	4.4	3.07	-1.33	0	0	0	0	0	0	0	0
6/20/2024 10:41	29402	BELT_T1	2	3	1	4.4	3.07	-1.33	0	0	0	0	0	0	0	0
6/20/2024 10:41	11104	EGYP_T1	6	7	1	1.3	1.12	-0.18	0.95	0.98	0	0	0	0	0	0
6/20/2024 10:41	11102	EGYP_T1	4	8	4	1.63	1.67	0.04	0	0	0	0	0	0	0	0
6/20/2024 10:41	29401	BELT_T1	22	5	-17	0.15	0.3	0.15	0	0	1	1	0	900	900	0
6/20/2024 10:41	10102	ALLE_T2	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
6/20/2024 10:41	10602	BLGL_T2	31	51	20	1.07	0.96	-0.11	2.08	2.06	0	0	0	0	0	0
6/20/2024 10:42	29402	BELT_T1	2	3	1	4.4	3.07	-1.33	0	0	0	0	0	0	0	0
6/20/2024 10:42	29401	BELT_T1	22	5	-17	0.15	0.3	0.15	0	0	0	0	0	0	0	0
6/20/2024 10:43	40903	JESH_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 10:43	40901	JESH_T1	1	1	0	2.4	1.9	-0.5	0	0	0	0	0	0	0	0
6/20/2024 10:43	40902	JESH_T1	1	5	4	0.6	1.07	0.47	-0.47	-0.27	3	3	0	1800	1800	0
6/20/2024 10:44	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 10:44	44801	EDAN_T2	2	5	3	1.3	0.5	-0.8	1.93	2.1	0	0	0	0	0	0
6/20/2024 10:44	58006	WCAR_T2	0	0	0	0	0	0	-0.5	-0.48	0	0	0	0	0	0
6/20/2024 10:44	56802	BENV_T2	0	0	0	0	0	0	-0.19	-0.16	0	0	0	0	0	0
6/20/2024 10:44	58002	WCAR_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/20/2024 10:45	52402	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/20/2024 10:45	44802	EDAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/20/2024 10:45	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/20/2024 10:45	52404	GRPA_T2	0	0	0	0	0	0	0.26	0.35	0	0	0	0	0	0
6/20/2024 10:45	52403	GRPA_T2	8	16	8	0.84	1.23	0.39	0	0	0	0	0	0	0	0
6/20/2024 10:45	44801	EDAN_T2	5	2	-3	1.06	0.9	-0.16	1.93	2.1	0	0	0	0	0	0
6/20/2024 10:46	40101	HUNT_T2	88	134	46	0.47	0.46	-0.01	-0.42	-0.34	0	0	0	0	0	0
6/20/2024 10:47	52402	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/20/2024 10:47	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/20/2024 10:47	52403	GRPA_T2	8	16	8	0.84	1.23	0.39	-0.44	0.22	0	0	0	0	0	0
6/20/2024 10:47	52404	GRPA_T2	0	0	0	0	0	0	0.26	0.35	0	0	0	0	0	0
6/20/2024 10:49	40601	PIGR_T1	3	3	0	0.53	0.67	0.14	0	0	0	0	0	0	0	0
6/20/2024 10:49	40602	PIGR_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/20/2024 10:50	13503	MCMI_T2	2	3	1	0.6	0.77	0.17	-0.66	-0.64	0	0	0	0	0	0
6/20/2024 10:50	66504	SMAN_T2	0	0	0	0	0	0	-1.15	-1.17	3	3	0	3600	3600	0
6/20/2024 10:50	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/20/2024 10:51	54602	SUMM_T2	0	0	0	0	0	0	-2.51	-2.45	1	1	0	600	600	0
6/20/2024 10:52	67601	WARW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 10:52	40602	PIGR_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/20/2024 10:52	67602	WARW_T2	0	1	1	0	0	0	0.27	0.29	2	2	0	1500	1500	0
6/20/2024 10:52	40601	PIGR_T1	3	3	0	0.53	0.67	0.14	0	0	0	0	0	0	0	0
6/20/2024 10:53	51102	CARL_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 10:53	51101	CARL_T1	1	1	0	9.7	9.7	0	0	0	0	0	0	0	0	0
6/20/2024 10:53	51107	CARL_T1	0	0	0	0	0	0	1.01	0.71	0	0	0	0	0	0
6/20/2024 10:54	67602	WARW_T2	0	1	1	0	0	0	0.53	0.58	4	4	0	3000	3000	0
6/20/2024 10:54	67601	WARW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 10:55	45502	DERR_T2	10	41	31	0.63	0.51	-0.12	0	0	0	0	0	0	0	0
6/20/2024 10:55	45501	DERR_T2	10	18	8	0.64	0.55	-0.09	1.1	1.18	2	2	0	1800	1800	0
6/20/2024 10:56	45501	DERR_T2	10	18	8	0.64	0.55	-0.09	1.1	1.18	2	2	0	1800	1800	0
6/20/2024 10:56	45502	DERR_T2	10	41	31	0.63	0.51	-0.12	0	0	0	0	0	0	0	0
6/20/2024 10:57	45501	DERR_T2	10	18	8	0.64	0.55	-0.09	1.1	1.18	2	2	0	1800	1800	0
6/20/2024 10:57	45502	DERR_T2	10	41	31	0.63	0.51	-0.12	0	0	0	0	0	0	0	0
6/20/2024 11:01	42902	MIDD_T2	6	4	-2	0.8	0.35	-0.45	0.24	0.24	1	1	0	600	600	0
6/20/2024 11:01	43202	MVIL_T2	3	2	-1	0.5	0.7	0.2	-0.26	-0.26	0	0	0	0	0	0
6/20/2024 11:01	42901	MIDD_T2	2	3	1	0.3	0.55	0.25	0	0	0	0	0	0	0	0
6/20/2024 11:02	64204	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/20/2024 11:02	59302	MCAL_T1	25	35	10	0.88	0.76	-0.12	-0.35	-0.38	1	1	0	600	600	0
6/20/2024 11:02	42901	MIDD_T2	2	3	1	0.3	0.55	0.25	0	0	0	0	0	0	0	0
6/20/2024 11:02	42902	MIDD_T2	6	4	-2	0.8	0.35	-0.45	0.24	0.24	1	1	0	600	600	0
6/20/2024 11:02	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 11:02	64203	KINZ_T1	2	2	0	1.25	1.15	-0.1	0.76	0.77	3	3	0	2100	2100	0
6/20/2024 11:02	59301	MCAL_T1	6	6	0	0.65	0.52	-0.13	0	0	0	0	0	0	0	0
6/20/2024 11:02	64201	KINZ_T1	3	1	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/20/2024 11:02	20601	GRWO_T2	21	116	95	0.46	0.39	-0.07	0.6	0.62	0	0	0	0	0	0
6/20/2024 11:03	44203	POIN_T2	8	18	10	0.95	0.66	-0.29	0	0	0	0	0	0	0	0
6/20/2024 11:03	44202	POIN_T2	0	0	0	0.64	0	0	-0.92	-0.91	2	2	0	1800	1800	0
6/20/2024 11:04	13303	ORVI_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
6/20/2024 11:04	44203	POIN_T2	8	18	10	0.95	0.66	-0.29	0.39	0.4	2	2	0	2100	2100	0
6/20/2024 11:06	14403	SSLA_T1	1	6	5	0.2	0.25	0.05	1.49	1.54	0	0	0	0	0	0
6/20/2024 11:06	65001	NEFF_T2	0	0	0	0	0	0	0.5	0.67	1	1	0	1200	1200	0
6/20/2024 11:06	14404	SSLA_T1	1	2	1	3	2.9	-0.1	0	0	0	0	0	0	0	0
6/20/2024 11:06	23002	SAJO_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/20/2024 11:06	13302	ORVI_T2	2	2	0	0.85	1.1	0.25	0.76	0.86	0	0	0	0	0	0
6/20/2024 11:06	23001	SAJO_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
6/20/2024 11:06	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 11:06	66703	STRA_T1	0	0	0	0	0	0	-0.24	-0.17	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/20/2024 11:07	64101	REFR_T1	3	3	0	0.23	0.43	0.2	1.31	1.31	0	0	0	0	0	0
6/20/2024 11:07	54504	ENOL_T2	0	0	0	0	0	0	-0.69	-0.66	1	1	0	600	600	0
6/20/2024 11:07	54502	ENOL_T2	1	0	-1	2.3	0	-2.3	0	0	0	0	0	0	0	0
6/20/2024 11:08	64101	REFR_T1	3	3	0	0.23	0.43	0.2	0.44	0.44	0	0	0	0	0	0
6/20/2024 11:08	44203	POIN_T2	8	18	10	0.95	0.66	-0.29	0.4	0.44	2	2	0	2100	2100	0
6/20/2024 11:10	22003	BOHE_T1	2	2	0	1.05	1.45	0.4	0	0	0	0	0	0	0	0
6/20/2024 11:10	22001	BOHE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 11:10	44801	EDAN_T2	2	1	-1	0.5	1.1	0.6	1.06	1.06	0	0	0	0	0	0
6/20/2024 11:10	22002	BOHE_T1	0	0	0	0	0	0	0.79	0.8	0	0	0	0	0	0
6/20/2024 11:15	45802	HEGI_T2	20	20	0	0.62	0.39	-0.23	0.51	0.41	2	2	0	1200	1200	0
6/20/2024 11:18	55003	NEWP_T2	0	0	0	0	0	0	-0.16	-0.15	1	1	0	600	600	0
6/20/2024 11:18	45802	HEGI_T2	20	20	0	0.62	0.39	-0.23	0.51	0.41	2	2	0	1200	1200	0
6/20/2024 11:19	40601	PIGR_T1	3	9	6	0.67	0.5	-0.17	0	0	0	0	0	0	0	0
6/20/2024 11:19	47401	PENS_T1	16	49	33	0.44	0.42	-0.02	0.27	0.28	0	0	0	0	0	0
6/20/2024 11:19	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/20/2024 11:19	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 11:19	47403	PENS_T1	1	1	0	2.2	0.2	-2	0	0	0	0	0	0	0	0
6/20/2024 11:20	47401	PENS_T1	16	49	33	0.44	0.42	-0.02	0.27	0.28	0	0	0	0	0	0
6/20/2024 11:20	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/20/2024 11:20	47403	PENS_T1	1	1	0	2.2	0.2	-2	0	0	0	0	0	0	0	0
6/20/2024 11:21	47403	PENS_T1	1	1	0	2.2	0.2	-2	0	0	0	0	0	0	0	0
6/20/2024 11:21	67602	WARW_T2	0	1	1	0	0	0	0.31	0.23	2	2	0	1500	1500	0
6/20/2024 11:21	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/20/2024 11:21	47401	PENS_T1	16	49	33	0.44	0.42	-0.02	0.56	0.85	0	0	0	0	0	0
6/20/2024 11:22	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 11:22	41902	REED_T1	14	24	10	0.49	0.36	-0.13	0.66	0.63	1	1	0	900	900	0
6/20/2024 11:22	16302	ALPA_T2	0	0	0	0	0	0	0.26	0.2	0	0	0	0	0	0
6/20/2024 11:22	47403	PENS_T1	1	1	0	2.2	0.2	-2	0	0	0	0	0	0	0	0
6/20/2024 11:22	47401	PENS_T1	16	49	33	0.44	0.42	-0.02	0.28	0.42	0	0	0	0	0	0
6/20/2024 11:22	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/20/2024 11:22	41903	REED_T1	4	5	1	0.98	0.78	-0.2	0	0	0	0	0	0	0	0
6/20/2024 11:22	67602	WARW_T2	0	1	1	0	0	0	0.31	0.23	2	2	0	1500	1500	0
6/20/2024 11:22	40601	PIGR_T1	3	9	6	0.67	0.5	-0.17	0	0	0	0	0	0	0	0
6/20/2024 11:23	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/20/2024 11:23	47403	PENS_T1	1	1	0	2.2	0.2	-2	0	0	0	0	0	0	0	0
6/20/2024 11:23	67201	TEHI_T1	110	81	-29	0.75	0.86	0.11	1.34	1.7	1	1	0	600	600	0
6/20/2024 11:23	67203	TEHI_T1	16	29	13	1.08	0.82	-0.26	0	0	0	0	0	0	0	0
6/20/2024 11:23	64101	REFR_T1	3	3	0	0.43	0.53	0.1	0.44	-0.11	0	0	0	0	0	0
6/20/2024 11:23	47401	PENS_T1	16	49	33	0.44	0.42	-0.02	0.28	0.42	0	0	0	0	0	0
6/20/2024 11:24	55103	WERT_T1	2	2	0	2.75	3.9	1.15	0	0	0	0	0	0	0	0
6/20/2024 11:24	62102	ELAN_T1	0	0	0	0	0	0	0.23	-0.55	0	0	0	0	0	0
6/20/2024 11:24	67801	WLAN_T1	0	1	1	0	0	0	-0.76	-0.74	0	0	0	0	0	0
6/20/2024 11:24	16302	ALPA_T2	0	0	0	0	0	0	0.26	0.2	0	0	0	0	0	0
6/20/2024 11:24	16102	BING_T2	0	9	9	0	0.66	0.66	0	0	0	0	0	0	0	0
6/20/2024 11:24	16101	BING_T2	3	11	8	3.4	3.97	0.57	0	0	0	0	0	0	0	0
6/20/2024 11:24	60803	BUCK_T1	0	0	0	0	0	0	-0.9	-0.89	1	1	0	600	600	0
6/20/2024 11:24	16301	ALPA_T1	0	0	0	0	0	0	0.69	0.71	0	0	0	0	0	0
6/20/2024 11:24	55101	WERT_T1	0	0	0	0	0	0	-3.25	-3.66	8	8	0	6600	6600	0
6/20/2024 11:24	16103	BING_T2	1	5	4	0.2	0	-0.2	-1.26	-1.22	2	2	0	1500	1500	0
6/20/2024 11:24	67804	WLAN_T1	1	8	7	0.4	0.4	0	0	0	0	0	0	0	0	0
6/20/2024 11:25	60803	BUCK_T1	0	0	0	0	0	0	-1.79	-1.77	2	2	0	1200	1200	0
6/20/2024 11:25	62102	ELAN_T1	0	0	0	0	0	0	0.23	-0.55	0	0	0	0	0	0
6/20/2024 11:25	25402	LAHA_T2	0	1	1	0	0.5	0.5	-0.2	-0.19	0	0	0	0	0	0
6/20/2024 11:25	16302	ALPA_T2	0	0	0	0	0	0	0.26	0.2	0	0	0	0	0	0
6/20/2024 11:26	62102	ELAN_T1	0	0	0	0	0	0	0.23	-0.55	0	0	0	0	0	0
6/20/2024 11:26	44801	EDAN_T2	1	1	0	1.1	1.5	0.4	1.06	1.07	0	0	0	0	0	0
6/20/2024 11:27	16302	ALPA_T2	0	0	0	0	0	0	0.26	0.2	0	0	0	0	0	0
6/20/2024 11:27	41801	GOCI_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
6/20/2024 11:27	60803	BUCK_T1	0	0	0	0	0	0	-0.9	-0.89	1	1	0	600	600	0
6/20/2024 11:27	62102	ELAN_T1	0	0	0	0	0	0	0.23	-0.55	0	0	0	0	0	0
6/20/2024 11:32	16102	BING_T2	5	13	8	0.66	0.63	-0.03	0.06	-0.16	1	2	1	1200	2100	900
6/20/2024 11:32	16101	BING_T2	3	14	11	3.97	1.55	-2.42	0	0	0	0	0	0	0	0
6/20/2024 11:32	55002	NEWP_T1	2	2	0	1.35	1.35	0	0.06	0.07	0	0	0	0	0	0
6/20/2024 11:32	13903	SEID_T1	4	26	22	0.73	0.92	0.19	0.58	0	1	1	0	600	600	0
6/20/2024 11:32	16103	BING_T2	1	4	3	0.8	0.17	-0.63	0	0	0	0	0	0	0	0
6/20/2024 11:32	13904	SEID_T1	10	15	5	0.42	0.54	0.12	0	0	0	0	0	0	0	0
6/20/2024 11:33	47403	PENS_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
6/20/2024 11:33	16103	BING_T2	1	4	3	0.8	0.17	-0.63	-1.26	-1.22	2	2	0	1500	1500	0
6/20/2024 11:33	44703	MUNC_T2	6	8	2	3.2	2.18	-1.02	1.3	1.37	0	0	0	0	0	0
6/20/2024 11:33	47401	PENS_T1	46	19	-27	0.42	0.68	0.26	0.28	0.42	0	0	0	0	0	0
6/20/2024 11:33	44701	MUNC_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 11:33	16101	BING_T2	3	14	11	3.97	1.55	-2.42	0	0	0	0	0	0	0	0
6/20/2024 11:33	47402	PENS_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
6/20/2024 11:33	16102	BING_T2	5	13	8	0.66	0.63	-0.03	0	0	0	0	0	0	0	0
6/20/2024 11:34	67602	WARW_T2	0	0	0	0	0	0	0.31	0.23	2	2	0	1500	1500	0
6/20/2024 11:34	55002	NEWP_T1	2	2	0	1.35	1.35	0	0.06	0.07	0	0	0	0	0	0
6/20/2024 11:35	13904	SEID_T1	10	15	5	0.42	0.54	0.12	0	0	0	0	0	0	0	0
6/20/2024 11:35	13903	SEID_T1	4	26	22	0.73	0.92	0.19	0.58	0	1	1	0	600	600	0
6/20/2024 11:35	47402	PENS_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
6/20/2024 11:35	55002	NEWP_T1	2	2	0	1.35	1.35	0	0.06	0.07	0	0	0	0	0	0
6/20/2024 11:35	47401	PENS_T1	46	19	-27	0.42	0.68	0.26	0.28	0.42	0	0	0	0	0	0
6/20/2024 11:35	47403	PENS_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
6/20/2024 11:36	60502	NMAN_T2	1	0	-1	0.4	0	-0.4	0.04	0.96	0	0	0	0	0	0
6/20/2024 11:36	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 11:36	60501	NMAN_T2	3	3	0	3.5	3.77	0.27	0	0	0	0	0	0	0	0
6/20/2024 11:36	45602	WOOL_T1	1	5	4	0.4	0.24	-0.16	0.8	0.81	0	0	0	0	0	0
6/20/2024 11:36	40601	PIGR_T1	9	9	0	0.49	0.54	0.05	0	0	0	0	0	0	0	0
6/20/2024 11:36	47401	PENS_T1	46	19	-27	0.42	0.68	0.26	0.42	0.46	0	0	0	0	0	0
6/20/2024 11:36	47402	PENS_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
6/20/2024 11:36	20601	GRWO_T2	116	221	105	0.76	0.82	0.06	0.64	0.72	0	0	0	0	0	0
6/20/2024 11:36	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/20/2024 11:36	47403	PENS_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
6/20/2024 11:37	55002	NEWP_T1	2	2	0	1.35	1.35	0	0.07	0.07	0	0	0	0	0	0
6/20/2024 11:37	45602	WOOL_T1	1	5	4	0.4	0.24	-0.16	0.8	0.81	0	0	0	0	0	0
6/20/2024 11:38	67601	WARW_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
6/20/2024 11:38	45602	WOOL_T1	1	5	4	0.4	0.24	-0.16	0.8	0.81	0	0	0	0	0	0
6/20/2024 11:39	42701	AUGU_T1	82	83	1	1.46	1.48	0.02	0	0	0	0	0	0	0	0
6/20/2024 11:40	42701	AUGU_T1	82	83	1	1.46	1.48	0.02	0	0	0	0	0	0	0	0
6/20/2024 11:41	53501	EVIL_T2	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/20/2024 11:41	53502	EVIL_T2	5	4	-1	1.2	1.65	0.45	0.63	0.66	2	2	0	1200	1200	0
6/20/2024 11:42	42701	AUGU_T1	82	83	1	1.46	1.48	0.02	0	0	0	0	0	0	0	0
6/20/2024 11:45	47403	PENS_T1	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
6/20/2024 11:45	64202	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/20/2024 11:45	12301	LANA_T2	1	1	0	0.4	0.2	-0.2	-0.77	-0.98	1	1	0	1200	1200	0
6/20/2024 11:45	12305	LANA_T2	6	1	-5	0.73	0	-0.73	0	0	0	0	0	0	0	0
6/20/2024 11:45	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
6/20/2024 11:45	47402	PENS_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/20/2024 11:45	64203	KINZ_T1	2	2	0	1.15	1.35	0.2	0.75	0.8	3	3	0	2100	2100	0
6/20/2024 11:45	12304	LANA_T2	81	96	15	0.6	0.59	-0.01	0	0	0	0	0	0	0	0
6/20/2024 11:45	47401	PENS_T1	19	18	-1	0.71	0.73	0.02	0.42	0.46	0	0	0	0	0	0
6/20/2024 11:46	25501	MADI_T1	4	2	-2	0.55	1.2	0.65	0	0	0	0	0	0	0	0
6/20/2024 11:46	59302	MCAL_T1	45	40	-5	0.83	0.79	-0.04	0	0	0	0	0	0	0	0
6/20/2024 11:46	25503	MADI_T1	0	4	4	0	0	0	-0.45	-0.44	0	0	0	0	0	0
6/20/2024 11:46	59301	MCAL_T1	8	6	-2	0.78	0.25	-0.53	-0.54	-0.5	0	0	0	0	0	0
6/20/2024 11:47	16402	MOPO_T1	1	3	2	0.3	0.7	0.4	0	0	0	0	0	0	0	0
6/20/2024 11:47	16406	MOPO_T1	0	0	0	0	0	0	0.19	0.26	1	1	0	1200	1200	0
6/20/2024 11:47	12701	MACU_T1	0	0	0	0	0	0	-0.76	-0.74	1	1	0	1200	1200	0
6/20/2024 11:48	56504	ROCK_T2	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
6/20/2024 11:48	56501	ROCK_T2	5	3	-2	1.52	0.75	-0.77	0	0	0	0	0	0	0	0
6/20/2024 11:49	12701	MACU_T1	0	0	0	0	0	0	-0.76	-0.74	1	1	0	1200	1200	0
6/20/2024 11:49	13501	MCMI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/20/2024 11:49	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 11:50	65501	MOJO_T1	0	0	0	0	0	0	-1.52	-0.51	2	1	-1	1800	900	-900
6/20/2024 11:55	56801	BENV_T1	1	1	0	1.1	0	-1.1	-0.22	-0.2	1	1	0	600	600	0
6/20/2024 11:55	56803	BENV_T1	5	9	4	1.92	2.02	0.1	0	0	0	0	0	0	0	0
6/20/2024 11:59	22901	HARW_T1	28	33	5	1.2	0.66	-0.54	0.04	0	1	1	0	1200	1200	0
6/20/2024 11:59	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/20/2024 11:59	22903	HARW_T1	8	22	14	0.49	0.61	0.12	0	0	0	0	0	0	0	0
6/20/2024 12:00	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:00	64203	KINZ_T1	2	9	7	1.7	1.35	-0.35	0.8	0.57	3	3	0	2100	2100	0
6/20/2024 12:00	64204	KINZ_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
6/20/2024 12:02	22905	HARW_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:02	22903	HARW_T1	22	22	0	0.7	0.62	-0.08	0	0	0	0	0	0	0	0
6/20/2024 12:02	22901	HARW_T1	28	40	12	0.92	0.76	-0.16	0.04	0	1	1	0	1200	1200	0
6/20/2024 12:03	45801	HEGI_T1	0	0	0	0	0	0	0.73	0.73	1	1	0	900	900	0
6/20/2024 12:07	66901	SHIL_T2	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
6/20/2024 12:08	56803	BENV_T1	6	9	3	2.02	1.07	-0.95	0	0	0	0	0	0	0	0
6/20/2024 12:08	56801	BENV_T1	0	4	4	0	0.4	0.4	-0.2	-0.17	1	1	0	600	600	0
6/20/2024 12:09	59202	THOM_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/20/2024 12:10	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:10	41602	CLEV_T1	11	30	19	0.55	0.39	-0.16	0	0	0	0	0	0	0	0
6/20/2024 12:11	60101	COCA_T1	0	1	1	0	0.8	0.8	-0.2	-0.13	1	1	0	1200	1200	0
6/20/2024 12:13	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:13	41602	CLEV_T1	11	30	19	0.55	0.39	-0.16	0	0	0	0	0	0	0	0
6/20/2024 12:14	41602	CLEV_T1	11	30	19	0.55	0.39	-0.16	0	0	0	0	0	0	0	0
6/20/2024 12:14	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:16	64204	KINZ_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
6/20/2024 12:16	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:16	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:16	64203	KINZ_T1	2	9	7	1.35	1.06	-0.29	0.57	0.65	3	3	0	2100	2100	0
6/20/2024 12:17	28805	LAKE_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
6/20/2024 12:17	40101	HUNT_T2	82	314	232	0.56	0.51	-0.05	-0.36	-0.36	0	0	0	0	0	0
6/20/2024 12:18	64801	MONE_T2	1	0	-1	0.1	0	-0.1	0.96	0	0	0	0	0	0	0
6/20/2024 12:18	64802	MONE_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/20/2024 12:19	66504	SMAN_T2	0	1	1	0	0	0	-0.61	-0.4	2	2	0	2400	2400	0
6/20/2024 12:19	66502	SMAN_T2	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
6/20/2024 12:19	66501	SMAN_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/20/2024 12:19	66505	SMAN_T2	2	0	-2	0.15	0	-0.15	0.77	0.65	8	8	0	4600	4600	0
6/20/2024 12:19	60803	BUCK_T1	0	0	0	0	0	0	-0.86	-0.85	1	1	0	600	600	0
6/20/2024 12:24	56803	BENV_T1	9	9	0	1.67	1.93	0.26	0	0	0	0	0	0	0	0
6/20/2024 12:24	56801	BENV_T1	1	6	5	0.4	0.52	0.12	-0.17	-0.15	1	1	0	600	600	0
6/20/2024 12:24	65902	SAKR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/20/2024 12:24	65901	SAKR_T2	1	1	0	5.2	5.2	0	-0.17	-0.18	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/20/2024 12:25	60902	DONG_T2	0	2	2	0	0.25	0.25	1.35	1.35	0	0	0	0	0	0
6/20/2024 12:25	55103	WERT_T1	2	2	0	3.15	3.3	0.15	0	0	0	0	0	0	0	0
6/20/2024 12:25	60901	DONG_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/20/2024 12:25	55101	WERT_T1	5	4	-1	0.18	0	-0.18	-1.65	-1.57	4	4	0	3300	3300	0
6/20/2024 12:26	57004	WHHI_T2	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
6/20/2024 12:26	57003	WHHI_T2	0	14	14	0	0.37	0.37	0	0	0	0	0	0	0	0
6/20/2024 12:27	53902	HALI_T2	1	2	1	3.5	2.25	-1.25	0	0	0	0	0	0	0	0
6/20/2024 12:27	53903	HALI_T2	3	3	0	0.27	0.3	0.03	0.06	0.07	0	0	0	0	0	0
6/20/2024 12:28	65902	SAKR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/20/2024 12:28	65901	SAKR_T2	1	1	0	5.2	5.2	0	-0.17	-0.18	2	2	0	1500	1500	0
6/20/2024 12:29	52401	GRPA_T2	29	33	4	0.57	0.36	-0.21	0	0	0	0	0	0	0	0
6/20/2024 12:29	41801	GOCI_T2	1	2	1	1	1.1	0.1	0	0	0	0	0	0	0	0
6/20/2024 12:29	52402	GRPA_T2	4	4	0	0.58	0.65	0.07	0	0	0	0	0	0	0	0
6/20/2024 12:29	64701	LITI_T1	10	11	1	1.14	1.58	0.44	0	0	0	0	0	0	0	0
6/20/2024 12:29	57505	LAWN_T3	0	1	1	0	0	0	0.15	0.24	0	0	0	0	0	0
6/20/2024 12:29	64704	LITI_T1	0	0	0	0	0	0	0.58	0.53	1	1	0	600	600	0
6/20/2024 12:29	57501	LAWN_T3	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/20/2024 12:29	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0.4	0.45	0	0	0	0	0	0
6/20/2024 12:29	57502	LAWN_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:29	52403	GRPA_T2	68	104	36	0.75	0.71	-0.04	0	0	0	0	0	0	0	0
6/20/2024 12:30	52404	GRPA_T2	0	0	0	0	0	0	0.4	0.45	0	0	0	0	0	0
6/20/2024 12:30	52403	GRPA_T2	79	128	49	0.71	0.78	0.07	0	0	0	0	0	0	0	0
6/20/2024 12:30	52402	GRPA_T2	2	10	8	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
6/20/2024 12:30	66302	MCGO_T2	0	0	0	0	0	0	-2.01	-1.99	2	2	0	1200	1200	0
6/20/2024 12:30	64702	LITI_T2	0	0	0	0	0	0	0.98	0.79	0	0	0	0	0	0
6/20/2024 12:30	53903	HALI_T2	3	4	1	0.3	0.38	0.08	0.13	0.14	0	0	0	0	0	0
6/20/2024 12:30	53902	HALI_T2	2	2	0	2.25	2.4	0.15	0	0	0	0	0	0	0	0
6/20/2024 12:30	52401	GRPA_T2	33	5	-28	0.53	0.2	-0.33	0	0	0	0	0	0	0	0
6/20/2024 12:30	57502	LAWN_T3	0	3	3	0	0	0	-1.92	-1.89	0	0	0	0	0	0
6/20/2024 12:30	57505	LAWN_T3	0	1	1	0	0.2	0.2	0.15	0.24	0	0	0	0	0	0
6/20/2024 12:30	64701	LITI_T1	10	12	2	1.58	1.85	0.27	0	0	0	0	0	0	0	0
6/20/2024 12:30	41801	GOCI_T2	2	2	0	0.75	1.4	0.65	0	0	0	0	0	0	0	0
6/20/2024 12:30	16702	MACK_T1	0	0	0	0	0	0	-1.59	-1.58	0	0	0	0	0	0
6/20/2024 12:30	64704	LITI_T1	0	0	0	0	0	0	0.58	0.53	1	1	0	600	600	0
6/20/2024 12:30	57501	LAWN_T3	0	0	0	0	0	0	-5.4	-5.11	0	0	0	0	0	0
6/20/2024 12:31	57505	LAWN_T3	0	1	1	0	0.2	0.2	0.15	0.24	0	0	0	0	0	0
6/20/2024 12:31	53902	HALI_T2	2	2	0	2.25	2.4	0.15	0	0	0	0	0	0	0	0
6/20/2024 12:31	57502	LAWN_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:31	16103	BING_T2	4	5	1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/20/2024 12:31	50502	MECH_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/20/2024 12:31	50506	MECH_T1	0	0	0	0	0	0	0.79	1.03	1	1	0	900	900	0
6/20/2024 12:31	47104	MARL_T1	36	65	29	0.74	0.85	0.11	0	0	0	0	0	0	0	0
6/20/2024 12:31	57501	LAWN_T3	0	0	0	0	0	0	-1.08	-1.02	0	0	0	0	0	0
6/20/2024 12:31	47101	MARL_T1	128	330	202	0.92	1.02	0.1	-1.32	-1.23	1	1	0	600	600	0
6/20/2024 12:31	64401	LAND_T1	0	1	1	0	0	0	-0.79	-0.76	1	1	0	600	600	0
6/20/2024 12:31	16702	MACK_T1	0	0	0	0	0	0	-1.59	-1.58	0	0	0	0	0	0
6/20/2024 12:31	53903	HALI_T2	3	4	1	0.3	0.38	0.08	0.06	0.07	0	0	0	0	0	0
6/20/2024 12:31	41801	GOCI_T2	2	2	0	0.75	1.4	0.65	0	0	0	0	0	0	0	0
6/20/2024 12:31	66302	MCGO_T2	0	0	0	0	0	0	-1	-1	1	1	0	600	600	0
6/20/2024 12:31	64902	MILL_T2	1	0	-1	2.5	0	-2.5	-0.45	-0.43	1	1	0	900	900	0
6/20/2024 12:31	59301	MCAL_T1	3	28	25	0.17	0.55	0.38	0	0	0	0	0	0	0	0
6/20/2024 12:31	16101	BING_T2	18	11	-7	1.09	1.64	0.55	0	0	0	0	0	0	0	0
6/20/2024 12:31	42302	MOWR_T2	0	0	0	0	0	0	0.8	0.82	0	0	0	0	0	0
6/20/2024 12:31	59302	MCAL_T1	15	45	30	0.93	0.75	-0.18	-0.4	-0.32	1	1	0	600	600	0
6/20/2024 12:31	16102	BING_T2	19	13	-6	0.62	0.36	-0.26	-0.06	0.04	2	2	0	2100	2100	0
6/20/2024 12:32	64203	KINZ_T1	9	9	0	1.12	0.98	-0.14	0.65	0.69	3	3	0	2100	2100	0
6/20/2024 12:32	64201	KINZ_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
6/20/2024 12:32	59002	MIFF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:32	59003	MIFF_T1	4	5	1	0.6	0.65	0.05	-0.37	-0.86	0	0	0	0	0	0
6/20/2024 12:32	39601	LNFD_T1	17	16	-1	2.41	1.33	-1.08	0	0	1	1	0	900	900	0
6/20/2024 12:32	51704	OBER_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 12:32	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/20/2024 12:32	47101	MARL_T1	128	330	202	0.92	1.02	0.1	-2.64	-2.46	2	2	0	1200	1200	0
6/20/2024 12:32	64204	KINZ_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/20/2024 12:32	57506	LAWN_T3	0	0	0	0	0	0	3.1	3.1	2	2	0	1200	1200	0
6/20/2024 12:32	57505	LAWN_T3	0	1	1	0	0.2	0.2	0.15	0.24	0	0	0	0	0	0
6/20/2024 12:32	22405	MORG_T2	2	2	0	0.25	0.45	0.2	-0.5	-0.48	0	0	0	0	0	0
6/20/2024 12:32	64902	MILL_T2	1	0	-1	2.5	0	-2.5	-0.45	-0.43	1	1	0	900	900	0
6/20/2024 12:32	47104	MARL_T1	36	65	29	0.74	0.85	0.11	0	0	0	0	0	0	0	0
6/20/2024 12:32	57502	LAWN_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:32	22406	MORG_T2	5	5	0	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
6/20/2024 12:32	51702	OBER_T1	3	3	0	1.27	1.07	-0.2	-0.13	-0.02	1	1	0	600	600	0
6/20/2024 12:32	50502	MECH_T1	1	1	0	0.7	0.4	-0.3	0.11	0.12	2	2	0	2100	2100	0
6/20/2024 12:32	46801	HEPB_T2	2	3	1	0.7	0.55	-0.15	0.46	0.48	0	0	0	0	0	0
6/20/2024 12:32	22401	MORG_T2	2	6	4	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/20/2024 12:32	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:32	66302	MCGO_T2	0	0	0	0	0	0	-1	-1	1	1	0	600	600	0
6/20/2024 12:32	22402	MORG_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/20/2024 12:32	59001	MIFF_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/20/2024 12:33	64902	MILL_T2	1	0	-1	2.5	0	-2.5	-1.8	-1.73	4	4	0	3600	3600	0
6/20/2024 12:33	55001	NEWP_T1	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
6/20/2024 12:33	51704	OBER_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 12:33	65701	RVIL_T1	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
6/20/2024 12:33	51702	OBER_T1	3	3	0	1.27	1.07	-0.2	-0.13	-0.02	1	1	0	600	600	0
6/20/2024 12:33	47402	PENS_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/20/2024 12:33	57505	LAWN_T3	0	1	1	0	0.2	0.2	0.29	0.49	0	0	0	0	0	0
6/20/2024 12:33	52501	PROG_T1	0	0	0	0	0	0	0.55	0.47	1	1	0	300	300	0
6/20/2024 12:33	14103	TRUM_T2	40	2	-38	0.62	0.25	-0.37	0	0	0	0	0	0	0	0
6/20/2024 12:33	54201	PENN_T1	4	4	0	0.53	0.4	-0.13	-1.49	-1.45	0	0	0	0	0	0
6/20/2024 12:33	14101	TRUM_T2	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
6/20/2024 12:33	44201	POIN_T1	0	0	0	0	0	0	-2.28	-1.99	4	4	0	4200	4200	0
6/20/2024 12:33	47401	PENS_T1	10	19	9	1.1	1	-0.1	1.64	1.6	0	0	0	0	0	0
6/20/2024 12:33	42601	TUSC_T1	0	0	0	0	0	0	-1.43	-1.34	2	2	0	1800	1800	0
6/20/2024 12:33	13002	NBET_T2	1	0	-1	0.2	0	-0.2	-0.73	-0.69	2	2	0	2400	2400	0
6/20/2024 12:33	12802	MICK_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
6/20/2024 12:33	47403	PENS_T1	1	2	1	2.3	1.45	-0.85	0	0	0	0	0	0	0	0
6/20/2024 12:33	57502	LAWN_T3	0	3	3	0	0	0	-0.96	-0.95	0	0	0	0	0	0
6/20/2024 12:33	65004	NEFF_T2	1	0	-1	2	0	-2	-0.41	-0.39	1	1	0	600	600	0
6/20/2024 12:33	47104	MARL_T1	36	65	29	0.74	0.85	0.11	0	0	0	0	0	0	0	0
6/20/2024 12:33	48301	ORWI_T1	2	2	0	3.4	3.15	-0.25	0.14	0.11	2	2	0	1800	1800	0
6/20/2024 12:33	13005	NBET_T2	5	1	-4	0.54	0	-0.54	0	0	0	0	0	0	0	0
6/20/2024 12:33	47101	MARL_T1	128	330	202	0.92	1.02	0.1	-2.64	-2.46	2	2	0	1200	1200	0
6/20/2024 12:33	54203	PENN_T1	5	5	0	0.44	0.24	-0.2	0	0	0	0	0	0	0	0
6/20/2024 12:33	50502	MECH_T1	1	1	0	0.7	0.4	-0.3	0.21	0.25	4	4	0	4200	4200	0
6/20/2024 12:33	50506	MECH_T1	0	0	0	0	0	0	2.36	3.1	3	3	0	2700	2700	0
6/20/2024 12:33	57501	LAWN_T3	0	0	0	0	0	0	-1.08	-1.02	0	0	0	0	0	0
6/20/2024 12:33	48602	POCA_T1	0	0	0	0	0	0	0.3	0.22	1	1	0	1200	1200	0
6/20/2024 12:33	12803	MICK_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
6/20/2024 12:33	55002	NEWP_T1	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
6/20/2024 12:33	12801	MICK_T1	0	0	0	0	0	0	-0.07	-0.07	2	2	0	1200	1200	0
6/20/2024 12:34	12801	MICK_T1	0	0	0	0	0	0	-0.07	-0.07	2	2	0	1200	1200	0
6/20/2024 12:34	64702	LITI_T2	0	0	0	0	0	0	0.33	0.26	0	0	0	0	0	0
6/20/2024 12:34	50505	MECH_T1	0	0	0	0	0	0	-1.49	-1.46	0	0	0	0	0	0
6/20/2024 12:34	65001	NEFF_T2	0	0	0	0	0	0	1.47	1.37	2	2	0	2400	2400	0
6/20/2024 12:34	27302	PARR_T1	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
6/20/2024 12:34	41902	REED_T1	18	75	57	0.45	0.46	0.01	0	0	0	0	0	0	0	0
6/20/2024 12:34	65401	MARI_T1	9	13	4	1.4	1.12	-0.28	0	0	0	0	0	0	0	0
6/20/2024 12:34	42601	TUSC_T1	0	0	0	0	0	0	-1.43	-1.34	2	2	0	1800	1800	0
6/20/2024 12:34	50506	MECH_T1	0	0	0	0	0	0	1.57	2.07	2	2	0	1800	1800	0
6/20/2024 12:34	48602	POCA_T1	0	0	0	0	0	0	0.3	0.22	1	1	0	1200	1200	0
6/20/2024 12:34	50502	MECH_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/20/2024 12:34	57505	LAWN_T3	0	1	1	0	0.2	0.2	0.15	0.24	0	0	0	0	0	0
6/20/2024 12:34	47403	PENS_T1	1	2	1	2.3	1.45	-0.85	0	0	0	0	0	0	0	0
6/20/2024 12:34	66302	MCGO_T2	0	0	0	0	0	0	-3.01	-2.99	3	3	0	1800	1800	0
6/20/2024 12:34	12803	MICK_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
6/20/2024 12:34	55001	NEWP_T1	0	0	0	0	0	0	-0.42	-0.39	0	0	0	0	0	0
6/20/2024 12:34	41903	REED_T1	4	4	0	1.55	1.3	-0.25	0	0	0	0	0	0	0	0
6/20/2024 12:34	65402	MARI_T1	5	15	10	0.26	0	-0.26	0	0	0	0	0	0	0	0
6/20/2024 12:34	64902	MILL_T2	1	0	-1	2.5	0	-2.5	-0.45	-0.43	1	1	0	900	900	0
6/20/2024 12:34	13102	NHAM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:34	47401	PENS_T1	10	19	9	1.1	1	-0.1	3.28	3.2	0	0	0	0	0	0
6/20/2024 12:34	41901	REED_T1	2	1	-1	0.15	0	-0.15	-0.97	-0.97	1	1	0	900	900	0
6/20/2024 12:34	55002	NEWP_T1	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
6/20/2024 12:34	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/20/2024 12:34	43202	MVIL_T2	1	2	1	0.5	0.4	-0.1	-0.23	-0.23	0	0	0	0	0	0
6/20/2024 12:34	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 12:34	65004	NEFF_T2	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
6/20/2024 12:34	42302	MOWR_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
6/20/2024 12:34	66505	SMAN_T2	0	0	0	0	0	0	0.32	0.44	4	4	0	2300	2300	0
6/20/2024 12:34	47104	MARL_T1	36	65	29	0.74	0.85	0.11	0	0	0	0	0	0	0	0
6/20/2024 12:34	52502	PROG_T2	0	0	0	0	0	0	0.45	0.5	2	2	0	1800	1800	0
6/20/2024 12:34	27604	PIRI_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
6/20/2024 12:34	47101	MARL_T1	128	330	202	0.92	1.02	0.1	-6.6	-6.16	5	5	0	3000	3000	0
6/20/2024 12:34	57502	LAWN_T3	0	3	3	0	0	0	-1.92	-1.89	0	0	0	0	0	0
6/20/2024 12:34	47402	PENS_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/20/2024 12:34	51702	OBER_T1	3	3	0	1.27	1.07	-0.2	-0.4	-0.05	3	3	0	1800	1800	0
6/20/2024 12:34	13105	NHAM_T2	41	53	12	0.97	0.54	-0.43	-0.7	-0.69	1	1	0	1200	1200	0
6/20/2024 12:34	51704	OBER_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 12:35	59002	MIFF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:35	52502	PROG_T2	0	0	0	0	0	0	0.23	0.25	1	1	0	900	900	0
6/20/2024 12:35	13103	NHAM_T2	0	0	0	0	0	0	-1.01	-1	1	1	0	600	600	0
6/20/2024 12:35	12803	MICK_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
6/20/2024 12:35	22401	MORG_T2	2	6	4	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/20/2024 12:35	14705	TREX_T1	0	0	0	0	0	0	1.32	1.35	0	0	0	0	0	0
6/20/2024 12:35	44201	POIN_T1	0	0	0	0	0	0	-1.14	-1	2	2	0	2100	2100	0
6/20/2024 12:35	22405	MORG_T2	2	2	0	0.25	0.45	0.2	-0.5	-0.48	0	0	0	0	0	0
6/20/2024 12:35	54206	PENN_T2	0	0	0	0	0	0	-0.12	-0.04	0	0	0	0	0	0
6/20/2024 12:35	54201	PENN_T1	4	4	0	0.53	0.4	-0.13	-1.49	-1.45	0	0	0	0	0	0
6/20/2024 12:35	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.09	-0.21	1	1	0	900	900	0
6/20/2024 12:35	22402	MORG_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/20/2024 12:35	24205	PROV_T3	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/20/2024 12:35	65402	MARI_T1	5	15	10	0.26	0	-0.26	0	0	0	0	0	0	0	0
6/20/2024 12:35	51702	OBER_T1	3	3	0	1.27	1.07	-0.2	-0.27	-0.04	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/20/2024 12:35	65401	MARI_T1	9	13	4	1.4	1.12	-0.28	0	0	0	0	0	0	0	0
6/20/2024 12:35	13503	MCMI_T2	3	4	1	0.6	0.58	-0.02	-0.56	-0.54	0	0	0	0	0	0
6/20/2024 12:35	48602	POCA_T1	0	0	0	0	0	0	0.59	0.44	2	2	0	2400	2400	0
6/20/2024 12:35	66302	MCGO_T2	0	0	0	0	0	0	-1	-1	1	1	0	600	600	0
6/20/2024 12:35	59003	MIFF_T1	4	5	1	0.6	0.65	0.05	-0.37	-0.86	0	0	0	0	0	0
6/20/2024 12:35	13102	NHAM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:35	55001	NEWP_T1	0	0	0	0	0	0	-0.42	-0.39	0	0	0	0	0	0
6/20/2024 12:35	24201	PROV_T3	3	3	0	3.6	3.43	-0.17	-0.37	-0.35	1	1	0	1200	1200	0
6/20/2024 12:35	43202	MVIL_T2	1	2	1	0.5	0.4	-0.1	-0.23	-0.23	0	0	0	0	0	0
6/20/2024 12:35	59001	MIFF_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/20/2024 12:35	22406	MORG_T2	5	5	0	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
6/20/2024 12:35	65001	NEFF_T2	0	0	0	0	0	0	0.74	0.68	1	1	0	1200	1200	0
6/20/2024 12:35	54203	PENN_T1	5	5	0	0.44	0.24	-0.2	0	0	0	0	0	0	0	0
6/20/2024 12:35	42302	MOWR_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
6/20/2024 12:35	55002	NEWP_T1	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
6/20/2024 12:35	51704	OBER_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 12:35	48601	POCA_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	1200	1200	0
6/20/2024 12:35	24204	PROV_T3	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
6/20/2024 12:35	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	-0.4	-0.24	2	2	0	2400	2400	0
6/20/2024 12:35	13105	NHAM_T2	41	53	12	0.97	0.54	-0.43	0	0	0	0	0	0	0	0
6/20/2024 12:35	12802	MICK_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
6/20/2024 12:35	12801	MICK_T1	0	0	0	0	0	0	-0.07	-0.07	2	2	0	1200	1200	0
6/20/2024 12:35	65004	NEFF_T2	1	0	-1	2	0	-2	-0.41	-0.39	1	1	0	600	600	0
6/20/2024 12:35	42601	TUSC_T1	0	0	0	0	0	0	-1.43	-1.34	2	2	0	1800	1800	0
6/20/2024 12:36	44201	POIN_T1	0	0	0	0	0	0	-1.99	-1.9	4	4	0	4200	4200	0
6/20/2024 12:36	27302	PARR_T1	0	0	0	0	0	0	-1.1	-1.13	0	0	0	0	0	0
6/20/2024 12:36	57506	LAWN_T3	0	0	0	0	0	0	3.1	3.1	2	2	0	1200	1200	0
6/20/2024 12:36	41902	REED_T1	18	75	57	0.45	0.46	0.01	0.72	0.7	1	1	0	900	900	0
6/20/2024 12:36	57502	LAWN_T3	0	3	3	0	0	0	-1.92	-1.89	0	0	0	0	0	0
6/20/2024 12:36	66902	SHIL_T2	0	0	0	0	0	0	-3.04	-2.98	0	0	0	0	0	0
6/20/2024 12:36	43301	WATS_T2	1	1	0	0.6	0	-0.6	0.11	0.13	1	1	0	900	900	0
6/20/2024 12:36	65401	MARI_T1	9	13	4	1.4	1.12	-0.28	0	0	0	0	0	0	0	0
6/20/2024 12:36	43304	WATS_T2	1	3	2	0.8	0.4	-0.4	-0.4	-0.4	0	0	0	0	0	0
6/20/2024 12:36	55002	NEWP_T1	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
6/20/2024 12:36	66703	STRA_T1	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
6/20/2024 12:36	60504	NMAN_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
6/20/2024 12:36	44701	MUNC_T2	3	3	0	0.47	0.35	-0.12	0	0	0	0	0	0	0	0
6/20/2024 12:36	57505	LAWN_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/20/2024 12:36	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/20/2024 12:36	44703	MUNC_T2	8	15	7	1.5	2.02	0.52	1.42	1.45	0	0	0	0	0	0
6/20/2024 12:36	66702	STRA_T1	0	0	0	0	0	0	-1.44	-1.53	6	6	0	5400	5400	0
6/20/2024 12:36	50505	MECH_T1	0	0	0	0	0	0	-1.49	-1.46	0	0	0	0	0	0
6/20/2024 12:36	48602	POCA_T1	0	0	0	0	0	0	0.59	0.44	2	2	0	2400	2400	0
6/20/2024 12:36	60502	NMAN_T2	0	0	0	0	0	0	0.13	0.19	0	0	0	0	0	0
6/20/2024 12:36	55001	NEWP_T1	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
6/20/2024 12:36	65001	NEFF_T2	0	0	0	0	0	0	0.68	0.81	1	1	0	1200	1200	0
6/20/2024 12:36	41903	REED_T1	4	4	0	1.55	1.3	-0.25	0	0	0	0	0	0	0	0
6/20/2024 12:36	54203	PENN_T1	5	5	0	0.44	0.24	-0.2	0	0	0	0	0	0	0	0
6/20/2024 12:36	65402	MARI_T1	5	15	10	0.26	0	-0.26	0	0	0	0	0	0	0	0
6/20/2024 12:36	57104	SPHI_T2	1	1	0	2	2.1	0.1	-0.77	-0.74	1	1	0	900	900	0
6/20/2024 12:36	54201	PENN_T1	4	4	0	0.53	0.4	-0.13	-1.49	-1.45	0	0	0	0	0	0
6/20/2024 12:36	50502	MECH_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/20/2024 12:36	60501	NMAN_T2	3	3	0	3.07	3.8	0.73	0	0	0	0	0	0	0	0
6/20/2024 12:36	67901	WNHO_T2	0	0	0	0	0	0	-0.55	-0.41	2	2	0	2100	2100	0
6/20/2024 12:36	65004	NEFF_T2	1	0	-1	2	0	-2	-0.39	-0.37	1	1	0	600	600	0
6/20/2024 12:36	54206	PENN_T2	0	0	0	0	0	0	-0.12	-0.04	0	0	0	0	0	0
6/20/2024 12:36	41901	REED_T1	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/20/2024 12:36	57601	RUTH_T2	0	0	0	0	0	0	-1.51	-1.45	1	1	0	900	900	0
6/20/2024 12:36	24202	PROV_T4	0	0	0	0	0	0	0.42	0.42	1	1	0	1200	1200	0
6/20/2024 12:36	65802	RTWN_T2	0	0	0	0	0	0	-0.6	-0.56	0	0	0	0	0	0
6/20/2024 12:36	66505	SMAN_T2	0	0	0	0	0	0	0.44	0.33	4	4	0	2300	2300	0
6/20/2024 12:36	48301	ORWI_T1	2	2	0	3.4	3.15	-0.25	0.07	0.05	1	1	0	900	900	0
6/20/2024 12:36	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.21	-0.18	1	1	0	900	900	0
6/20/2024 12:36	51704	OBER_T1	1	0	-1	0.1	0	-0.1	-10.09	-9.94	4	4	0	4800	4800	0
6/20/2024 12:36	24206	PROV_T4	5	5	0	0.54	0	-0.54	0	0	0	0	0	0	0	0
6/20/2024 12:36	57401	SPAN_T1	2	4	2	5.05	0.4	-4.65	-0.96	-0.91	2	2	0	1200	1200	0
6/20/2024 12:36	48601	POCA_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	1200	1200	0
6/20/2024 12:36	51702	OBER_T1	3	3	0	1.27	1.07	-0.2	-0.67	-0.09	5	5	0	3000	3000	0
6/20/2024 12:36	65003	NEFF_T2	0	0	0	0	0	0	-0.42	-0.53	2	2	0	1800	1800	0
6/20/2024 12:37	24201	PROV_T3	3	3	0	3.6	3.43	-0.17	-0.35	-0.34	1	1	0	1200	1200	0
6/20/2024 12:37	57502	LAWN_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:37	24204	PROV_T3	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
6/20/2024 12:37	54201	PENN_T1	4	4	0	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
6/20/2024 12:37	67402	WAKE_T2	1	4	3	0.2	0.77	0.57	0.81	0.88	1	1	0	600	600	0
6/20/2024 12:37	43304	WATS_T2	1	3	2	0.8	0.4	-0.4	-1.17	-0.97	1	1	0	600	600	0
6/20/2024 12:37	42802	SELI_T1	0	0	0	0	0	0	-1.95	-1.92	2	2	0	1800	1800	0
6/20/2024 12:37	67401	WAKE_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:37	24205	PROV_T3	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/20/2024 12:37	41903	REED_T1	4	4	0	1.55	1.3	-0.25	0	0	0	0	0	0	0	0
6/20/2024 12:37	44201	POIN_T1	0	0	0	0	0	0	-2.99	-2.85	6	6	0	6300	6300	0
6/20/2024 12:37	43504	WWIL_T1	0	2	2	0	0.2	0.2	0.09	0.12	0	0	0	0	0	0
6/20/2024 12:37	43301	WATS_T2	1	1	0	0.6	0	-0.6	0.21	0.26	2	2	0	1800	1800	0
6/20/2024 12:37	41901	REED_T1	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/20/2024 12:37	41902	REED_T1	18	75	57	0.45	0.46	0.01	0.7	0.69	1	1	0	900	900	0
6/20/2024 12:37	42601	TUSC_T1	0	0	0	0	0	0	-1.34	-1.35	2	2	0	1800	1800	0
6/20/2024 12:37	66902	SHIL_T2	0	0	0	0	0	0	-1.52	-1.49	0	0	0	0	0	0
6/20/2024 12:37	59202	THOM_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:37	66702	STRA_T1	0	0	0	0	0	0	-0.72	-0.77	3	3	0	2700	2700	0
6/20/2024 12:37	57401	SPAN_T1	2	4	2	5.05	0.4	-4.65	-0.91	-0.81	2	2	0	1200	1200	0
6/20/2024 12:37	51702	OBER_T1	3	3	0	1.27	1.07	-0.2	-0.04	0.04	2	2	0	1200	1200	0
6/20/2024 12:37	57505	LAWN_T3	0	1	1	0	0.2	0.2	0.24	0.26	0	0	0	0	0	0
6/20/2024 12:37	57506	LAWN_T3	0	0	0	0	0	0	1.55	1.6	1	1	0	600	600	0
6/20/2024 12:37	66901	SHIL_T2	0	0	0	0	0	0	-0.05	0	0	0	0	0	0	0
6/20/2024 12:37	51704	OBER_T1	1	0	-1	0.1	0	-0.1	-2.49	-2.47	1	1	0	1200	1200	0
6/20/2024 12:37	66703	STRA_T1	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
6/20/2024 12:37	54206	PENN_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
6/20/2024 12:37	54203	PENN_T1	5	5	0	0.44	0.24	-0.2	0.91	0.98	2	2	0	1200	1200	0
6/20/2024 12:37	54701	NEBL_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
6/20/2024 12:37	43505	WWIL_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/20/2024 12:38	54201	PENN_T1	4	4	0	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
6/20/2024 12:38	57502	LAWN_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:38	43304	WATS_T2	1	3	2	0.8	0.4	-0.4	-3.52	-2.9	3	3	0	1800	1800	0
6/20/2024 12:38	27005	BELL_T1	17	28	11	0.39	0.43	0.04	-0.54	-0.53	0	0	0	0	0	0
6/20/2024 12:38	43301	WATS_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/20/2024 12:38	47402	PENS_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/20/2024 12:38	57505	LAWN_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/20/2024 12:38	47403	PENS_T1	1	2	1	2.3	1.45	-0.85	0	0	0	0	0	0	0	0
6/20/2024 12:38	57501	LAWN_T3	0	0	0	0	0	0	-1.02	-1	0	0	0	0	0	0
6/20/2024 12:38	48602	POCA_T1	0	0	0	0	0	0	0.22	0.33	1	1	0	1200	1200	0
6/20/2024 12:38	47401	PENS_T1	10	19	9	1.1	1	-0.1	1.6	1.56	0	0	0	0	0	0
6/20/2024 12:38	54203	PENN_T1	5	5	0	0.44	0.24	-0.2	0.46	0.49	1	1	0	600	600	0
6/20/2024 12:38	27004	BELL_T1	10	17	7	0.54	0.83	0.29	0	0	0	0	0	0	0	0
6/20/2024 12:38	51702	OBER_T1	3	3	0	1.27	1.07	-0.2	-0.05	0.06	3	3	0	1800	1800	0
6/20/2024 12:38	51704	OBER_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 12:38	60801	BUCK_T1	0	0	0	0	0	0	-0.35	-0.37	1	1	0	600	600	0
6/20/2024 12:38	67204	TEHI_T2	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
6/20/2024 12:38	64702	LITI_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
6/20/2024 12:38	44201	POIN_T1	0	0	0	0	0	0	-1.99	-1.9	4	4	0	4200	4200	0
6/20/2024 12:38	66703	STRA_T1	0	2	2	0	0.8	0.8	-0.04	0.01	0	0	0	0	0	0
6/20/2024 12:38	54701	NEBL_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
6/20/2024 12:38	42802	SELI_T1	0	0	0	0	0	0	-0.97	-0.96	1	1	0	900	900	0
6/20/2024 12:38	62102	ELAN_T1	0	0	0	0	0	0	-0.46	-0.35	0	0	0	0	0	0
6/20/2024 12:39	56803	BENV_T1	7	6	-1	1.07	1.65	0.58	0	0	0	0	0	0	0	0
6/20/2024 12:39	56801	BENV_T1	4	3	-1	0.4	0.77	0.37	-0.15	-0.12	1	1	0	600	600	0
6/20/2024 12:39	60801	BUCK_T1	0	0	0	0	0	0	-0.35	-0.37	1	1	0	600	600	0
6/20/2024 12:39	66703	STRA_T1	0	2	2	0	0.8	0.8	-0.04	0.01	0	0	0	0	0	0
6/20/2024 12:39	62102	ELAN_T1	0	0	0	0	0	0	-0.46	-0.35	0	0	0	0	0	0
6/20/2024 12:39	46206	DANV_T2	69	67	-2	0.76	0.77	0.01	2.56	2.51	1	1	0	1200	1200	0
6/20/2024 12:39	67801	WLAN_T1	0	16	16	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:39	66702	STRA_T1	0	0	0	0	0	0	-1.44	-1.53	6	6	0	5400	5400	0
6/20/2024 12:39	66505	SMAN_T2	0	0	0	0	0	0	0.87	0.67	8	8	0	4600	4600	0
6/20/2024 12:39	56802	BENV_T2	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
6/20/2024 12:39	67402	WAKE_T2	1	4	3	0.2	0.77	0.57	0	0	0	0	0	0	0	0
6/20/2024 12:39	60701	BREC_T1	4	4	0	0.63	0.1	-0.53	0.15	0.24	2	2	0	1200	1200	0
6/20/2024 12:39	15001	BLMO_T1	18	6	-12	0.33	0.6	0.27	0	0	0	0	0	0	0	0
6/20/2024 12:39	67803	WLAN_T1	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
6/20/2024 12:39	67804	WLAN_T1	10	10	0	0.56	0.69	0.13	0	0	0	0	0	0	0	0
6/20/2024 12:39	47402	PENS_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/20/2024 12:39	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 12:39	43304	WATS_T2	1	3	2	0.8	0.4	-0.4	-1.17	-0.97	1	1	0	600	600	0
6/20/2024 12:39	57401	SPAN_T1	2	4	2	5.05	0.4	-4.65	-0.91	-0.81	2	2	0	1200	1200	0
6/20/2024 12:39	10702	CATA_T2	0	0	0	0	0	0	0.75	0.69	0	0	0	0	0	0
6/20/2024 12:39	54201	PENN_T1	4	4	0	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
6/20/2024 12:39	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/20/2024 12:39	47401	PENS_T1	10	19	9	1.1	1	-0.1	1.6	1.56	0	0	0	0	0	0
6/20/2024 12:39	46203	DANV_T2	0	0	0	0	0	0	-2.34	-4.04	0	0	0	0	0	0
6/20/2024 12:39	43301	WATS_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/20/2024 12:39	46204	DANV_T2	28	20	-8	0.45	0.15	-0.3	0	0	0	0	0	0	0	0
6/20/2024 12:39	47403	PENS_T1	1	2	1	2.3	1.45	-0.85	0	0	0	0	0	0	0	0
6/20/2024 12:39	46004	BERW_T2	5	6	1	0.48	0.53	0.05	0	0	0	0	0	0	0	0
6/20/2024 12:39	60103	COCA_T2	2	3	1	0.7	0.1	-0.6	-0.93	-0.89	3	3	0	3300	3300	0
6/20/2024 12:39	67401	WAKE_T2	0	2	2	0	0	0	-0.51	-0.48	0	0	0	0	0	0
6/20/2024 12:39	46002	BERW_T2	0	1	1	0	0	0	-0.47	-0.46	1	1	0	900	900	0
6/20/2024 12:39	54203	PENN_T1	5	5	0	0.44	0.24	-0.2	0.46	0.49	1	1	0	600	600	0
6/20/2024 12:40	53601	DALM_T2	2	1	-1	0.4	2.1	1.7	-1.26	-1.24	4	4	0	3000	3000	0
6/20/2024 12:40	44301	BEAV_T2	8	15	7	0.49	0.47	-0.02	0.52	0.86	2	2	0	1500	1500	0
6/20/2024 12:40	46204	DANV_T2	28	20	-8	0.45	0.15	-0.3	0	0	0	0	0	0	0	0
6/20/2024 12:40	55105	WERT_T1	0	0	0	0	0	0	0.7	0.74	1	1	0	900	900	0
6/20/2024 12:40	10702	CATA_T2	0	0	0	0	0	0	0.75	0.69	0	0	0	0	0	0
6/20/2024 12:40	55103	WERT_T1	2	2	0	3.3	4.65	1.35	0	0	0	0	0	0	0	0
6/20/2024 12:40	62102	ELAN_T1	0	0	0	0	0	0	-1.37	-1.06	0	0	0	0	0	0
6/20/2024 12:40	55101	WERT_T1	0	10	10	0	0.35	0.35	0	0	0	0	0	0	0	0
6/20/2024 12:40	43301	WATS_T2	1	1	0	0.6	0	-0.6	0.11	0.13	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/20/2024 12:40	51905	COPA_T1	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
6/20/2024 12:40	46504	LOHA_T1	4	4	0	0.93	0.55	-0.38	0	0	0	0	0	0	0	0
6/20/2024 12:40	43304	WATS_T2	1	3	2	0.8	0.4	-0.4	-1.17	-0.97	1	1	0	600	600	0
6/20/2024 12:40	46501	LOHA_T1	35	59	24	0.5	0.62	0.12	0	0	0	0	0	0	0	0
6/20/2024 12:40	46506	LOHA_T1	1	1	0	0.3	0	-0.3	0.13	0.16	0	0	0	0	0	0
6/20/2024 12:40	51904	COPA_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
6/20/2024 12:40	10705	CATA_T2	0	0	0	0	0	0	-2.04	-2	2	2	0	1800	1800	0
6/20/2024 12:40	46206	DANV_T2	69	67	-2	0.76	0.77	0.01	2.56	2.51	1	1	0	1200	1200	0
6/20/2024 12:40	62105	ELAN_T1	0	0	0	0	0	0	1.25	1.27	0	0	0	0	0	0
6/20/2024 12:40	67204	TEHI_T2	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
6/20/2024 12:40	60701	BREC_T1	4	4	0	0.63	0.1	-0.53	0.15	0.24	2	2	0	1200	1200	0
6/20/2024 12:41	51704	OBER_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 12:41	10705	CATA_T2	0	0	0	0	0	0	-1.02	-1	1	1	0	900	900	0
6/20/2024 12:41	22101	EDEL_T2	0	0	0	0	0	0	1.59	1.61	1	1	0	1200	1200	0
6/20/2024 12:41	43304	WATS_T2	1	3	2	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
6/20/2024 12:41	60701	BREC_T1	4	4	0	0.63	0.1	-0.53	0.15	0.24	2	2	0	1200	1200	0
6/20/2024 12:41	61301	EARL_T1	0	0	0	0	0	0	-2.2	-2.18	4	4	0	3600	3600	0
6/20/2024 12:41	51604	DUKE_T2	1	1	0	0.2	0.3	0.1	-0.71	-0.68	1	1	0	900	900	0
6/20/2024 12:41	61703	ELIZ_T1	0	0	0	0	0	0	-4.39	-3.47	4	4	0	4200	4200	0
6/20/2024 12:41	10801	CHIH_T1	22	39	17	0.55	0.58	0.03	-0.86	-0.78	3	3	0	2100	2100	0
6/20/2024 12:41	10702	CATA_T2	0	0	0	0	0	0	1.49	1.38	0	0	0	0	0	0
6/20/2024 12:41	51902	COPA_T1	0	0	0	0	0	0	0.31	0.32	1	1	0	1200	1200	0
6/20/2024 12:41	62105	ELAN_T1	0	0	0	0	0	0	1.25	1.27	0	0	0	0	0	0
6/20/2024 12:41	29402	BELT_T1	1	8	7	7.5	1.5	-6	0	0	0	0	0	0	0	0
6/20/2024 12:41	48901	FOSP_T2	0	0	0	0	0	0	0.13	0.13	1	1	0	600	600	0
6/20/2024 12:41	43301	WATS_T2	1	1	0	0.6	0	-0.6	0.11	0.13	1	1	0	900	900	0
6/20/2024 12:41	62102	ELAN_T1	0	0	0	0	0	0	-0.92	-0.71	0	0	0	0	0	0
6/20/2024 12:41	61302	EARL_T1	0	0	0	0	0	0	0.79	1	3	3	0	2700	2700	0
6/20/2024 12:41	61303	EARL_T1	0	0	0	0	0	0	1.19	1.43	0	0	0	0	0	0
6/20/2024 12:41	29401	BELT_T1	0	1	1	0	0.2	0.2	0	0	2	2	0	1800	1800	0
6/20/2024 12:41	61701	ELIZ_T1	1	2	1	2.3	1.5	-0.8	0	0	0	0	0	0	0	0
6/20/2024 12:41	51702	OBER_T1	3	3	0	1.27	1.07	-0.2	-0.02	0.02	1	1	0	600	600	0
6/20/2024 12:41	51904	COPA_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
6/20/2024 12:42	57502	LAWN_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:42	62102	ELAN_T1	0	0	0	0	0	0	-0.92	-0.71	0	0	0	0	0	0
6/20/2024 12:42	10702	CATA_T2	0	0	0	0	0	0	1.49	1.38	0	0	0	0	0	0
6/20/2024 12:42	51904	COPA_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
6/20/2024 12:42	51906	COPA_T1	0	0	0	0	0	0	-0.93	-0.89	1	1	0	600	600	0
6/20/2024 12:42	46002	BERW_T2	0	1	1	0	0	0	-0.47	-0.46	1	1	0	900	900	0
6/20/2024 12:42	46504	LOHA_T1	4	4	0	0.93	0.55	-0.38	0	0	0	0	0	0	0	0
6/20/2024 12:42	46004	BERW_T2	5	6	1	0.48	0.53	0.05	0	0	0	0	0	0	0	0
6/20/2024 12:42	41501	FAIR_T2	0	0	0	0	0	0	-0.62	-0.62	1	1	0	600	600	0
6/20/2024 12:42	51905	COPA_T1	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
6/20/2024 12:42	46501	LOHA_T1	35	59	24	0.5	0.62	0.12	0.65	0.66	1	1	0	1200	1200	0
6/20/2024 12:42	46506	LOHA_T1	1	1	0	0.3	0	-0.3	0.06	0.08	0	0	0	0	0	0
6/20/2024 12:42	48901	FOSP_T2	0	0	0	0	0	0	0.25	0.26	2	2	0	1200	1200	0
6/20/2024 12:42	53502	EVIL_T2	5	9	4	1.04	1.52	0.48	1.16	1.31	4	4	0	2400	2400	0
6/20/2024 12:42	57505	LAWN_T3	0	1	1	0	0.2	0.2	0.24	0.26	0	0	0	0	0	0
6/20/2024 12:42	64401	LAND_T1	0	1	1	0	0	0	-0.76	-0.74	1	1	0	600	600	0
6/20/2024 12:42	60701	BREC_T1	4	4	0	0.63	0.1	-0.53	0.15	0.24	2	2	0	1200	1200	0
6/20/2024 12:42	41302	FISH_T2	18	20	2	3.47	4.77	1.3	0	0	0	0	0	0	0	0
6/20/2024 12:42	41304	FISH_T2	1	5	4	0	0.2	0.2	0.06	0.2	0	0	0	0	0	0
6/20/2024 12:42	53501	EVIL_T2	2	4	2	2.35	1	-1.35	0	0	0	0	0	0	0	0
6/20/2024 12:43	51904	COPA_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
6/20/2024 12:43	46206	DANV_T2	69	67	-2	0.76	0.77	0.01	2.56	2.51	1	1	0	1200	1200	0
6/20/2024 12:43	46501	LOHA_T1	35	59	24	0.5	0.62	0.12	1.3	1.32	2	2	0	2400	2400	0
6/20/2024 12:43	46506	LOHA_T1	1	1	0	0.3	0	-0.3	0.06	0.08	0	0	0	0	0	0
6/20/2024 12:43	46204	DANV_T2	28	20	-8	0.45	0.15	-0.3	0	0	0	0	0	0	0	0
6/20/2024 12:43	12001	HATF_T1	0	0	0	0	0	0	0.56	0.55	2	2	0	1800	1800	0
6/20/2024 12:43	12002	HATF_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
6/20/2024 12:43	51905	COPA_T1	0	0	0	0	0	0	-1.77	-1.83	0	0	0	0	0	0
6/20/2024 12:43	46002	BERW_T2	0	1	1	0	0	0	-0.47	-0.46	1	1	0	900	900	0
6/20/2024 12:43	11402	FARM_T1	2	3	1	1	0.43	-0.57	0	0	0	0	0	0	0	0
6/20/2024 12:43	41302	FISH_T2	18	20	2	3.47	4.77	1.3	0	0	0	0	0	0	0	0
6/20/2024 12:43	11406	FARM_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
6/20/2024 12:43	46004	BERW_T2	5	6	1	0.48	0.53	0.05	0	0	0	0	0	0	0	0
6/20/2024 12:43	57401	SPAN_T1	2	4	2	5.05	0.4	-4.65	-0.45	-0.4	1	1	0	600	600	0
6/20/2024 12:43	60701	BREC_T1	4	4	0	0.63	0.1	-0.53	0.15	0.24	2	2	0	1200	1200	0
6/20/2024 12:43	40801	EXCH_T2	0	0	0	0	0	0	0.38	0.4	1	1	0	1200	1200	0
6/20/2024 12:43	62102	ELAN_T1	0	0	0	0	0	0	-0.46	-0.35	0	0	0	0	0	0
6/20/2024 12:43	46504	LOHA_T1	4	4	0	0.93	0.55	-0.38	0	0	0	0	0	0	0	0
6/20/2024 12:43	61301	EARL_T1	0	0	0	0	0	0	-1.1	-1.09	2	2	0	1800	1800	0
6/20/2024 12:43	11407	FARM_T1	0	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0
6/20/2024 12:43	12006	HATF_T1	0	1	1	0	0.1	0.1	-0.22	-0.04	3	3	0	3600	3600	0
6/20/2024 12:43	11405	FARM_T1	0	11	11	0	0.6	0.6	0.55	0.59	1	1	0	1200	1200	0
6/20/2024 12:43	10705	CATA_T2	0	0	0	0	0	0	-1.02	-1	1	1	0	900	900	0
6/20/2024 12:43	41304	FISH_T2	1	5	4	0	0.2	0.2	0.03	0.1	0	0	0	0	0	0
6/20/2024 12:43	48901	FOSP_T2	0	0	0	0	0	0	0.25	0.26	2	2	0	1200	1200	0
6/20/2024 12:44	56802	BENV_T2	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
6/20/2024 12:44	46203	DANV_T2	0	0	0	0	0	0	-1.17	-2.02	0	0	0	0	0	0
6/20/2024 12:44	56503	ROCK_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/20/2024 12:44	46206	DANV_T2	69	67	-2	0.76	0.77	0.01	0	0	0	0	0	0	0	0
6/20/2024 12:44	50501	MECH_T1	0	0	0	0	0	0	-1.13	-0.9	0	0	0	0	0	0
6/20/2024 12:44	46204	DANV_T2	28	20	-8	0.45	0.15	-0.3	0	0	0	0	0	0	0	0
6/20/2024 12:44	50502	MECH_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/20/2024 12:44	51604	DUKE_T2	1	1	0	0.2	0.3	0.1	-0.71	-0.68	1	1	0	900	900	0
6/20/2024 12:44	56501	ROCK_T2	4	6	2	0.48	0.38	-0.1	-3.05	-2.98	0	0	0	0	0	0
6/20/2024 12:44	61303	EARL_T1	0	0	0	0	0	0	0.6	0.71	0	0	0	0	0	0
6/20/2024 12:45	61701	ELIZ_T1	2	2	0	1.45	1.3	-0.15	0	0	0	0	0	0	0	0
6/20/2024 12:45	41302	FISH_T2	18	20	2	4.77	5.12	0.35	0	0	0	0	0	0	0	0
6/20/2024 12:45	61703	ELIZ_T1	0	0	0	0	0	0	-4.39	-3.47	4	4	0	4200	4200	0
6/20/2024 12:45	61303	EARL_T1	0	0	0	0	0	0	0.6	0.71	0	0	0	0	0	0
6/20/2024 12:45	41801	GOCI_T2	1	2	1	1.4	1.15	-0.25	0	0	0	0	0	0	0	0
6/20/2024 12:45	41304	FISH_T2	2	6	4	0.2	0.4	0.2	0.12	0.41	0	0	0	0	0	0
6/20/2024 12:46	59302	MCAL_T1	35	48	13	0.75	0.93	0.18	-0.32	-0.37	1	1	0	600	600	0
6/20/2024 12:46	48901	FOSP_T2	0	0	0	0	0	0	0.13	0.13	1	1	0	600	600	0
6/20/2024 12:46	48902	FOSP_T2	0	0	0	0	0	0	0.77	-0.21	0	0	0	0	0	0
6/20/2024 12:46	59301	MCAL_T1	8	35	27	0.55	0.72	0.17	0	0	0	0	0	0	0	0
6/20/2024 12:46	24701	FLND_T2	5	0	-5	0.12	0	-0.12	0.6	0.6	0	0	0	0	0	0
6/20/2024 12:46	12001	HATF_T1	0	0	0	0	0	0	0.56	0.55	2	2	0	1800	1800	0
6/20/2024 12:46	52002	LING_T2	3	1	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/20/2024 12:46	52004	LING_T2	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
6/20/2024 12:46	54701	NEBL_T1	0	4	4	0	0	0	0	0	1	1	0	600	600	0
6/20/2024 12:46	43304	WATS_T2	2	3	1	0.4	1.4	1	-1.17	-0.97	1	1	0	600	600	0
6/20/2024 12:46	57505	LAWN_T3	1	1	0	0.4	0	-0.4	0.24	0.26	0	0	0	0	0	0
6/20/2024 12:46	57502	LAWN_T3	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/20/2024 12:46	56802	BENV_T2	0	0	0	0	0	0	-1.32	-1.28	0	0	0	0	0	0
6/20/2024 12:46	12006	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 12:46	12002	HATF_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
6/20/2024 12:46	41801	GOCI_T2	1	2	1	1.4	1.15	-0.25	0	0	0	0	0	0	0	0
6/20/2024 12:46	43301	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 12:47	52001	LING_T1	0	0	0	0	0	0	0.89	0.92	0	0	0	0	0	0
6/20/2024 12:47	65001	NEFF_T2	0	0	0	0	0	0	0.68	0.81	1	1	0	1200	1200	0
6/20/2024 12:47	12401	MILF_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:47	56503	ROCK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 12:47	12402	MILF_T1	153	158	5	1.72	2.03	0.31	1.15	1.2	0	0	0	0	0	0
6/20/2024 12:47	64204	KINZ_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/20/2024 12:47	64203	KINZ_T1	9	6	-3	1.1	2.2	1.1	0.69	1.01	3	3	0	2100	2100	0
6/20/2024 12:47	64202	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 12:47	52003	LING_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/20/2024 12:47	11507	FREE_T2	191	224	33	0.78	0.74	-0.04	1.56	1.42	1	1	0	600	600	0
6/20/2024 12:47	65003	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/20/2024 12:47	12001	HATF_T1	0	0	0	0	0	0	0.56	0.55	2	2	0	1800	1800	0
6/20/2024 12:47	12006	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 12:47	56501	ROCK_T2	4	5	1	0.4	0.53	0.13	-1.53	-1.49	0	0	0	0	0	0
6/20/2024 12:47	12002	HATF_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
6/20/2024 12:48	56503	ROCK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 12:48	64202	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 12:48	64203	KINZ_T1	9	6	-3	1.1	2.2	1.1	0.69	1.01	3	3	0	2100	2100	0
6/20/2024 12:48	64204	KINZ_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/20/2024 12:48	56501	ROCK_T2	4	5	1	0.4	0.53	0.13	-3.05	-2.98	0	0	0	0	0	0
6/20/2024 12:50	13201	PALM_T1	0	0	0	0	0	0	-1.1	-1.12	1	1	0	1200	1200	0
6/20/2024 12:50	64204	KINZ_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/20/2024 12:50	64203	KINZ_T1	9	6	-3	1.1	2.2	1.1	0	0	0	0	0	0	0	0
6/20/2024 12:50	64202	KINZ_T1	1	0	-1	0.3	0	-0.3	1.85	1	0	0	0	0	0	0
6/20/2024 12:51	58402	MORO_T1	0	0	0	0	0	0	-1.7	-1.69	3	3	0	2100	2100	0
6/20/2024 12:51	58402	MORO_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/20/2024 12:51	65604	QVIL_T2	1	11	10	0.3	0.29	-0.01	1.04	1.05	0	0	0	0	0	0
6/20/2024 12:51	27604	PIRI_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
6/20/2024 12:52	64101	REFR_T1	6	10	4	0.78	0.67	-0.11	-0.05	-0.03	0	0	0	0	0	0
6/20/2024 12:52	65604	QVIL_T2	1	11	10	0.3	0.29	-0.01	1.04	1.05	0	0	0	0	0	0
6/20/2024 12:52	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 12:52	40302	TAMA_T3	0	0	0	0	0	0	-0.93	-1.35	1	1	0	1200	1200	0
6/20/2024 12:52	59202	THOM_T1	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
6/20/2024 12:53	43301	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 12:53	43304	WATS_T2	2	3	1	0.4	1.4	1	-0.97	-0.88	1	1	0	600	600	0
6/20/2024 12:54	67605	WARW_T1	1	1	0	0.4	0.2	-0.2	-0.51	-0.5	0	0	0	0	0	0
6/20/2024 12:55	46204	DANV_T2	20	17	-3	0.29	0.16	-0.13	0	0	0	0	0	0	0	0
6/20/2024 12:55	57401	SPAN_T1	1	5	4	0.4	0.55	0.15	-0.4	-0.35	1	1	0	600	600	0
6/20/2024 12:55	10801	CHIH_T1	21	58	37	0.55	0.65	0.1	-0.78	-0.79	3	3	0	2100	2100	0
6/20/2024 12:55	46206	DANV_T2	63	64	1	0.82	0.69	-0.13	2.51	2.45	1	1	0	1200	1200	0
6/20/2024 12:56	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
6/20/2024 12:56	67605	WARW_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/20/2024 12:56	46204	DANV_T2	20	17	-3	0.29	0.16	-0.13	0	0	0	0	0	0	0	0
6/20/2024 12:56	46206	DANV_T2	63	64	1	0.82	0.69	-0.13	2.51	2.45	1	1	0	1200	1200	0
6/20/2024 12:58	53903	HALI_T2	2	4	2	0.2	0.38	0.18	0	0	0	0	0	0	0	0
6/20/2024 12:58	53902	HALI_T2	2	2	0	2.2	2.4	0.2	-0.47	-0.46	0	0	0	0	0	0
6/20/2024 12:58	67605	WARW_T1	1	1	0	0.4	0.2	-0.2	-0.51	-0.5	0	0	0	0	0	0
6/20/2024 12:58	46204	DANV_T2	20	17	-3	0.29	0.16	-0.13	0	0	0	0	0	0	0	0
6/20/2024 12:58	46206	DANV_T2	63	64	1	0.82	0.69	-0.13	2.51	2.45	1	1	0	1200	1200	0
6/20/2024 12:59	53903	HALI_T2	2	4	2	0.2	0.38	0.18	0	0	0	0	0	0	0	0
6/20/2024 12:59	53902	HALI_T2	2	2	0	2.2	2.4	0.2	-0.93	-0.92	0	0	0	0	0	0
6/20/2024 13:00	47101	MARL_T1	314	513	199	0.9	0.92	0.02	-1.23	-1.26	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/20/2024 13:00	22905	HARW_T1	4	11	7	0.13	0.1	-0.03	-0.28	-0.27	0	0	0	0	0	0
6/20/2024 13:00	53903	HALI_T2	4	2	-2	0.38	0.4	0.02	0	0	0	0	0	0	0	0
6/20/2024 13:00	53902	HALI_T2	2	2	0	2.4	2.15	-0.25	-0.47	-0.46	0	0	0	0	0	0
6/20/2024 13:00	47104	MARL_T1	62	87	25	0.88	0.67	-0.21	0	0	0	0	0	0	0	0
6/20/2024 13:00	22901	HARW_T1	32	42	10	1.35	1.01	-0.34	0	0	0	0	0	0	0	0
6/20/2024 13:00	22903	HARW_T1	24	23	-1	1.85	1.35	-0.5	0	0	0	0	0	0	0	0
6/20/2024 13:02	53902	HALI_T2	2	2	0	2.4	2.15	-0.25	0	0	0	0	0	0	0	0
6/20/2024 13:02	64204	KINZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/20/2024 13:02	22905	HARW_T1	4	11	7	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
6/20/2024 13:02	64203	KINZ_T1	6	2	-4	1.15	1.75	0.6	0	0	0	0	0	0	0	0
6/20/2024 13:02	22901	HARW_T1	32	42	10	1.35	1.01	-0.34	0.15	0.12	1	1	0	1200	1200	0
6/20/2024 13:02	53903	HALI_T2	4	2	-2	0.38	0.4	0.02	0	0	0	0	0	0	0	0
6/20/2024 13:02	64201	KINZ_T1	0	0	0	0	0	0	-0.79	-0.6	5	5	0	3300	3300	0
6/20/2024 13:02	53901	HALI_T2	0	0	0	0	0	0	-0.91	-0.89	0	0	0	0	0	0
6/20/2024 13:02	22903	HARW_T1	24	23	-1	1.85	1.35	-0.5	0	0	0	0	0	0	0	0
6/20/2024 13:03	64204	KINZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/20/2024 13:03	59301	MCAL_T1	28	42	14	0.7	0.79	0.09	0	0	0	0	0	0	0	0
6/20/2024 13:03	64203	KINZ_T1	6	2	-4	1.15	1.75	0.6	1.01	0.91	3	3	0	2100	2100	0
6/20/2024 13:03	59302	MCAL_T1	44	57	13	0.98	0.97	-0.01	-0.37	-0.33	1	1	0	600	600	0
6/20/2024 13:04	64204	KINZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/20/2024 13:04	64201	KINZ_T1	0	0	0	0	0	0	-0.79	-0.6	5	5	0	3300	3300	0
6/20/2024 13:04	64203	KINZ_T1	6	2	-4	1.15	1.75	0.6	0	0	0	0	0	0	0	0
6/20/2024 13:06	23001	SAJO_T1	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
6/20/2024 13:06	23002	SAJO_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/20/2024 13:08	50701	SMEC_T1	2	1	-1	1.75	0	-1.75	-0.62	-0.61	1	1	0	1200	1200	0
6/20/2024 13:08	50506	MECH_T1	0	0	0	0	0	0	1.23	1.11	1	1	0	900	900	0
6/20/2024 13:08	50502	MECH_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/20/2024 13:10	59202	THOM_T1	3	1	-2	0.47	0	-0.47	0	0	0	0	0	0	0	0
6/20/2024 13:10	67605	WARW_T1	0	1	1	0	0.8	0.8	-0.5	-0.42	0	0	0	0	0	0
6/20/2024 13:11	56803	BENV_T1	5	6	1	1.62	1.5	-0.12	0	0	0	0	0	0	0	0
6/20/2024 13:11	56801	BENV_T1	1	3	2	0.8	0.43	-0.37	-0.09	-0.07	1	1	0	600	600	0
6/20/2024 13:11	45402	WBLO_T2	0	3	3	0	0.6	0.6	-0.67	-0.65	1	1	0	900	900	0
6/20/2024 13:12	22901	HARW_T1	32	42	10	1.35	1.01	-0.34	0.12	0.07	1	1	0	1200	1200	0
6/20/2024 13:12	41801	GOCI_T2	2	2	0	1.15	1.3	0.15	0	0	0	0	0	0	0	0
6/20/2024 13:12	22905	HARW_T1	4	11	7	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
6/20/2024 13:12	22903	HARW_T1	24	23	-1	1.85	1.35	-0.5	-0.08	-0.15	0	0	0	0	0	0
6/20/2024 13:12	61501	EPET_T2	1	1	0	6	5.3	-0.7	0	0	0	0	0	0	0	0
6/20/2024 13:12	61504	EPET_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
6/20/2024 13:13	46206	DANV_T2	64	61	-3	0.82	0.64	-0.18	0	0	0	0	0	0	0	0
6/20/2024 13:13	57502	LAWN_T3	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/20/2024 13:13	46203	DANV_T2	0	1	1	0	0	0	-2.02	-2.01	0	0	0	0	0	0
6/20/2024 13:13	56803	BENV_T1	5	6	1	1.62	1.5	-0.12	0.02	0.16	1	1	0	600	600	0
6/20/2024 13:13	56801	BENV_T1	1	3	2	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
6/20/2024 13:13	46204	DANV_T2	15	19	4	0.21	0.14	-0.07	0	0	0	0	0	0	0	0
6/20/2024 13:13	57505	LAWN_T3	1	1	0	0.2	0	-0.2	0.28	0.3	0	0	0	0	0	0
6/20/2024 13:14	46206	DANV_T2	64	61	-3	0.82	0.64	-0.18	0	0	0	0	0	0	0	0
6/20/2024 13:14	46203	DANV_T2	0	1	1	0	0	0	-2.02	-2.01	0	0	0	0	0	0
6/20/2024 13:14	46204	DANV_T2	15	19	4	0.21	0.14	-0.07	0	0	0	0	0	0	0	0
6/20/2024 13:15	16605	PONO_T1	0	0	0	0	0	0	-0.76	-0.8	2	2	0	2400	2400	0
6/20/2024 13:15	41801	GOCI_T2	2	2	0	1.45	1.3	-0.15	0	0	0	0	0	0	0	0
6/20/2024 13:15	16601	PONO_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/20/2024 13:15	64701	LITI_T1	12	12	0	2.13	1.89	-0.24	0.46	0.41	1	1	0	900	900	0
6/20/2024 13:16	64701	LITI_T1	12	12	0	2.13	1.89	-0.24	0	0	0	0	0	0	0	0
6/20/2024 13:16	64704	LITI_T1	0	0	0	0	0	0	0.6	0.62	1	1	0	600	600	0
6/20/2024 13:17	54701	NEBL_T1	4	3	-1	0.43	0	-0.43	0	0	1	1	0	600	600	0
6/20/2024 13:17	41801	GOCI_T2	2	2	0	1.45	1.3	-0.15	0	0	0	0	0	0	0	0
6/20/2024 13:17	57303	MOAL_T2	1	1	0	8.2	7.7	-0.5	0	0	0	0	0	0	0	0
6/20/2024 13:17	57302	MOAL_T2	0	0	0	0	0	0	-0.7	-0.73	1	1	0	1200	1200	0
6/20/2024 13:17	57304	MOAL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/20/2024 13:17	65302	NBRI_T2	0	0	0	0	0	0	-0.09	-0.04	1	1	0	600	600	0
6/20/2024 13:19	47401	PENS_T1	8	22	14	1.09	1.25	0.16	1.55	1.63	0	0	0	0	0	0
6/20/2024 13:19	65302	NBRI_T2	0	0	0	0	0	0	-0.09	-0.04	1	1	0	600	600	0
6/20/2024 13:19	64203	KINZ_T1	2	2	0	2.2	1.75	-0.45	0.91	0.77	3	3	0	2100	2100	0
6/20/2024 13:19	64204	KINZ_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/20/2024 13:19	47403	PENS_T1	2	2	0	1.35	1.5	0.15	0	0	0	0	0	0	0	0
6/20/2024 13:19	47402	PENS_T1	1	3	2	0.4	0.4	0	0	0	0	0	0	0	0	0
6/20/2024 13:20	65302	NBRI_T2	0	0	0	0	0	0	-0.09	-0.04	1	1	0	600	600	0
6/20/2024 13:21	47403	PENS_T1	2	2	0	1.35	1.5	0.15	0	0	0	0	0	0	0	0
6/20/2024 13:21	47401	PENS_T1	8	22	14	1.09	1.25	0.16	1.63	1.65	0	0	0	0	0	0
6/20/2024 13:21	66702	STRA_T1	0	0	0	0	0	0	-0.69	-0.7	3	3	0	2700	2700	0
6/20/2024 13:21	66703	STRA_T1	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 13:21	65302	NBRI_T2	0	0	0	0	0	0	-0.04	0.06	1	1	0	600	600	0
6/20/2024 13:21	47402	PENS_T1	1	3	2	0.4	0.4	0	0	0	0	0	0	0	0	0
6/20/2024 13:22	47402	PENS_T1	1	3	2	0.4	0.4	0	0	0	0	0	0	0	0	0
6/20/2024 13:22	47403	PENS_T1	2	2	0	1.35	1.5	0.15	0	0	0	0	0	0	0	0
6/20/2024 13:22	47401	PENS_T1	8	22	14	1.09	1.25	0.16	1.63	1.65	0	0	0	0	0	0
6/20/2024 13:22	66703	STRA_T1	1	2	1	0.1	0	-0.1	0.01	0.07	0	0	0	0	0	0
6/20/2024 13:23	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 13:23	55101	WERT_T1	7	15	8	0.37	0.27	-0.1	-1.57	-1.44	4	4	0	3300	3300	0
6/20/2024 13:23	55103	WERT_T1	2	2	0	4.9	4.45	-0.45	0	0	0	0	0	0	0	0
6/20/2024 13:24	61101	BERK_T5	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
6/20/2024 13:25	56802	BENV_T2	0	0	0	0	0	0	-0.61	-0.59	0	0	0	0	0	0
6/20/2024 13:26	46204	DANV_T2	15	20	5	0.19	0.31	0.12	0	0	0	0	0	0	0	0
6/20/2024 13:26	46206	DANV_T2	56	60	4	0.72	0.54	-0.18	0	0	0	0	0	0	0	0
6/20/2024 13:26	46203	DANV_T2	0	1	1	0	0	0	-2.01	-2	0	0	0	0	0	0
6/20/2024 13:27	46203	DANV_T2	0	1	1	0	0	0	-2.01	-2	0	0	0	0	0	0
6/20/2024 13:27	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/20/2024 13:27	46204	DANV_T2	15	20	5	0.19	0.31	0.12	0	0	0	0	0	0	0	0
6/20/2024 13:27	46206	DANV_T2	56	60	4	0.72	0.54	-0.18	0	0	0	0	0	0	0	0
6/20/2024 13:27	63804	HEMP_T1	1	1	0	8.4	8.3	-0.1	0.42	0.45	0	0	0	0	0	0
6/20/2024 13:28	41801	GOCI_T2	2	2	0	1.45	1.3	-0.15	0	0	0	0	0	0	0	0
6/20/2024 13:29	53902	HALI_T2	2	2	0	2.05	2.15	0.1	-0.46	-0.45	0	0	0	0	0	0
6/20/2024 13:29	53903	HALI_T2	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
6/20/2024 13:29	42201	SHEN_T2	0	0	0	0	0	0	0.39	0.41	1	1	0	600	600	0
6/20/2024 13:30	42902	MIDD_T2	11	20	9	0.77	0.6	-0.17	0.05	0.18	2	2	0	900	900	0
6/20/2024 13:30	63803	HEMP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/20/2024 13:30	42903	MIDD_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
6/20/2024 13:30	63804	HEMP_T1	1	1	0	8.3	8.1	-0.2	0.42	0.45	0	0	0	0	0	0
6/20/2024 13:30	42901	MIDD_T2	3	18	15	1.47	0.88	-0.59	0	0	0	0	0	0	0	0
6/20/2024 13:30	53903	HALI_T2	2	3	1	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
6/20/2024 13:30	53902	HALI_T2	2	2	0	2.15	2	-0.15	-0.46	-0.45	0	0	0	0	0	0
6/20/2024 13:30	64902	MILL_T2	0	0	0	0	0	0	-0.37	-0.36	1	1	0	900	900	0
6/20/2024 13:31	64302	LINC_T2	0	1	1	0	0.1	0.1	2	1.99	0	0	0	0	0	0
6/20/2024 13:31	64305	LINC_T1	0	1	1	0	0	0	0.1	0.04	0	0	0	0	0	0
6/20/2024 13:31	64904	MILL_T1	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
6/20/2024 13:31	64303	LINC_T1	1	1	0	5.3	0	-5.3	0	0	0	0	0	0	0	0
6/20/2024 13:32	45702	LIND_T2	0	0	0	0	0	0	-1.05	-1.03	0	0	0	0	0	0
6/20/2024 13:32	42902	MIDD_T2	11	20	9	0.77	0.6	-0.17	0.05	0.18	2	2	0	900	900	0
6/20/2024 13:32	64904	MILL_T1	0	0	0	0	0	0	1.2	1.26	0	0	0	0	0	0
6/20/2024 13:32	42903	MIDD_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
6/20/2024 13:32	42901	MIDD_T2	3	18	15	1.47	0.88	-0.59	0	0	0	0	0	0	0	0
6/20/2024 13:33	54701	NEBL_T1	3	1	-2	0.3	0	-0.3	0	0	1	1	0	600	600	0
6/20/2024 13:33	64904	MILL_T1	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
6/20/2024 13:34	66201	SISP_T2	0	0	0	0	0	0	-1.51	-1.5	0	0	0	0	0	0
6/20/2024 13:34	64101	REFR_T1	10	10	0	1.03	0.75	-0.28	-0.01	0.03	0	0	0	0	0	0
6/20/2024 13:34	59302	MCAL_T1	55	65	10	1.24	1.39	0.15	-0.31	-0.48	1	1	0	600	600	0
6/20/2024 13:34	59301	MCAL_T1	39	98	59	0.79	0.81	0.02	0	0	0	0	0	0	0	0
6/20/2024 13:35	53903	HALI_T2	2	3	1	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
6/20/2024 13:35	53902	HALI_T2	2	2	0	2.15	2	-0.15	-0.46	-0.45	0	0	0	0	0	0
6/20/2024 13:38	42903	MIDD_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
6/20/2024 13:38	42902	MIDD_T2	11	20	9	0.77	0.6	-0.17	0.18	0.1	2	2	0	900	900	0
6/20/2024 13:38	42901	MIDD_T2	3	18	15	1.47	0.88	-0.59	0	0	0	0	0	0	0	0
6/20/2024 13:41	55103	WERT_T1	2	2	0	5.4	4.45	-0.95	0	0	0	0	0	0	0	0
6/20/2024 13:41	55101	WERT_T1	9	13	4	0.23	0.77	0.54	-1.44	-1.43	4	4	0	3300	3300	0
6/20/2024 13:41	55105	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/20/2024 13:43	53501	EVIL_T2	2	2	0	0.65	0.6	-0.05	-1.01	-1.15	5	5	0	2900	2900	0
6/20/2024 13:43	53502	EVIL_T2	13	16	3	0.9	1.04	0.14	0	0	0	0	0	0	0	0
6/20/2024 13:44	53502	EVIL_T2	13	16	3	0.9	1.04	0.14	0	0	0	0	0	0	0	0
6/20/2024 13:44	53501	EVIL_T2	2	2	0	0.65	0.6	-0.05	-2.02	-2.3	10	10	0	5800	5800	0
6/20/2024 13:46	45801	HEGI_T1	0	0	0	0	0	0	0.24	0.22	1	1	0	900	900	0
6/20/2024 13:47	52402	GRPA_T2	6	12	6	0.4	0.39	-0.01	0	0	0	0	0	0	0	0
6/20/2024 13:47	52401	GRPA_T2	12	18	6	0.46	0.63	0.17	0	0	0	0	0	0	0	0
6/20/2024 13:47	52404	GRPA_T2	0	2	2	0	0.1	0.1	0.41	0.46	0	0	0	0	0	0
6/20/2024 13:47	52403	GRPA_T2	144	100	-44	0.85	0.85	0	0	0	0	0	0	0	0	0
6/20/2024 13:53	56803	BENV_T1	8	7	-1	1.91	1.93	0.02	0	0	0	0	0	0	0	0
6/20/2024 13:53	56801	BENV_T1	4	6	2	0.45	0.66	0.21	-0.05	-0.03	1	1	0	600	600	0
6/20/2024 13:54	56801	BENV_T1	4	6	2	0.45	0.66	0.21	-0.1	-0.07	2	2	0	1200	1200	0
6/20/2024 13:54	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 13:54	10102	ALLE_T2	1	1	0	8.1	8.1	0	0	0	0	0	0	0	0	0
6/20/2024 13:54	10206	ALLE_T2	5	5	0	1.8	0.7	-1.1	0	0	0	0	0	0	0	0
6/20/2024 13:54	10204	ALLE_T2	3	9	6	0.7	0.16	-0.54	0	0	0	0	0	0	0	0
6/20/2024 13:54	56803	BENV_T1	8	7	-1	1.91	1.93	0.02	0	0	0	0	0	0	0	0
6/20/2024 13:55	56801	BENV_T1	4	6	2	0.45	0.66	0.21	-0.05	-0.03	1	1	0	600	600	0
6/20/2024 13:55	56803	BENV_T1	8	7	-1	1.91	1.93	0.02	0	0	0	0	0	0	0	0
6/20/2024 13:56	56803	BENV_T1	8	7	-1	1.91	1.93	0.02	0	0	0	0	0	0	0	0
6/20/2024 13:56	56801	BENV_T1	4	6	2	0.45	0.66	0.21	-0.14	-0.1	3	3	0	1800	1800	0
6/20/2024 13:57	56801	BENV_T1	4	6	2	0.45	0.66	0.21	-0.14	-0.1	3	3	0	1800	1800	0
6/20/2024 13:57	56803	BENV_T1	8	7	-1	1.91	1.93	0.02	0	0	0	0	0	0	0	0
6/20/2024 13:58	56801	BENV_T1	4	6	2	0.45	0.66	0.21	-0.05	-0.03	1	1	0	600	600	0
6/20/2024 13:58	56803	BENV_T1	8	7	-1	1.91	1.93	0.02	0	0	0	0	0	0	0	0
6/20/2024 13:59	56803	BENV_T1	8	7	-1	1.91	1.93	0.02	0	0	0	0	0	0	0	0
6/20/2024 13:59	56801	BENV_T1	4	6	2	0.45	0.66	0.21	-0.05	-0.03	1	1	0	600	600	0
6/20/2024 14:00	21204	ECAR_T2	1	2	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 14:00	21202	ECAR_T2	10	9	-1	0.9	0.32	-0.58	0	0	0	0	0	0	0	0
6/20/2024 14:00	24105	EHAZ_T1	4	4	0	6.18	6.23	0.05	0	0	0	0	0	0	0	0
6/20/2024 14:00	24102	EHAZ_T1	1	1	0	1	0	-1	-0.32	-0.32	0	0	0	0	0	0
6/20/2024 14:00	21206	ECAR_T2	58	59	1	1.07	0.82	-0.25	0.85	0.78	0	0	0	0	0	0
6/20/2024 14:00	24101	EHAZ_T1	67	66	-1	1.7	1.46	-0.24	0	0	0	0	0	0	0	0
6/20/2024 14:01	61506	EPET_T2	0	0	0	0	0	0	-0.59	-0.59	2	2	0	1800	1800	0
6/20/2024 14:01	61501	EPET_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
6/20/2024 14:03	43202	MVIL_T2	3	2	-1	0.33	0.55	0.22	-0.17	-0.09	0	0	0	0	0	0
6/20/2024 14:04	43202	MVIL_T2	3	2	-1	0.33	0.55	0.22	-0.17	-0.09	0	0	0	0	0	0
6/20/2024 14:07	50502	MECH_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/20/2024 14:07	50501	MECH_T1	0	0	0	0	0	0	-1.23	-1.11	0	0	0	0	0	0
6/20/2024 14:10	27602	PIRI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 14:10	27604	PIRI_T1	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
6/20/2024 14:13	60101	COCA_T1	1	1	0	1	1.2	0.2	-0.09	-0.05	1	1	0	1200	1200	0
6/20/2024 14:17	64201	KINZ_T1	2	4	2	0.3	0.3	0	0	0	0	0	0	0	0	0
6/20/2024 14:17	64203	KINZ_T1	2	2	0	2.5	2.4	-0.1	0.64	0.7	3	3	0	2100	2100	0
6/20/2024 14:17	64204	KINZ_T1	4	1	-3	0.43	0.5	0.07	0	0	0	0	0	0	0	0
6/20/2024 14:17	64202	KINZ_T1	2	1	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/20/2024 14:18	13606	RICH_T2	16	23	7	1.04	1.18	0.14	0.51	0.53	0	0	0	0	0	0
6/20/2024 14:18	13601	RICH_T2	1	9	8	0.1	1.8	1.7	0	0	0	0	0	0	0	0
6/20/2024 14:22	20601	GRWO_T2	387	391	4	1.26	1.14	-0.12	0.81	0.82	0	0	0	0	0	0
6/20/2024 14:22	64101	REFR_T1	10	10	0	0.99	1.35	0.36	0.07	0.08	0	0	0	0	0	0
6/20/2024 14:23	56801	BENV_T1	5	6	1	0.48	0.68	0.2	-0.02	-0.01	1	1	0	600	600	0
6/20/2024 14:23	56803	BENV_T1	6	7	1	2.18	2.4	0.22	0	0	0	0	0	0	0	0
6/20/2024 14:24	56803	BENV_T1	6	7	1	2.18	2.4	0.22	0	0	0	0	0	0	0	0
6/20/2024 14:24	56801	BENV_T1	5	6	1	0.48	0.68	0.2	-0.04	-0.02	2	2	0	1200	1200	0
6/20/2024 14:24	10805	CHHI_T2	322	344	22	1.02	1.02	0	0.42	0.74	2	2	0	1200	1200	0
6/20/2024 14:25	10805	CHHI_T2	322	344	22	1.02	1.02	0	0.21	0.37	1	1	0	600	600	0
6/20/2024 14:25	56803	BENV_T1	6	7	1	2.18	2.4	0.22	0	0	0	0	0	0	0	0
6/20/2024 14:25	56801	BENV_T1	5	6	1	0.48	0.68	0.2	-0.02	-0.01	1	1	0	600	600	0
6/20/2024 14:26	56801	BENV_T1	5	6	1	0.48	0.68	0.2	-0.02	-0.01	1	1	0	600	600	0
6/20/2024 14:26	10805	CHHI_T2	322	344	22	1.02	1.02	0	0.21	0.37	1	1	0	600	600	0
6/20/2024 14:26	61101	BERK_T5	0	1	1	0	0	0	-0.17	-0.2	0	0	0	0	0	0
6/20/2024 14:26	56803	BENV_T1	6	7	1	2.18	2.4	0.22	0	0	0	0	0	0	0	0
6/20/2024 14:26	60801	BUCK_T1	0	0	0	0	0	0	0.01	-0.87	1	1	0	600	600	0
6/20/2024 14:27	56803	BENV_T1	6	7	1	2.18	2.4	0.22	0	0	0	0	0	0	0	0
6/20/2024 14:27	56801	BENV_T1	5	6	1	0.48	0.68	0.2	-0.02	-0.01	1	1	0	600	600	0
6/20/2024 14:27	10805	CHHI_T2	322	344	22	1.02	1.02	0	0.21	0.37	1	1	0	600	600	0
6/20/2024 14:28	53902	HALI_T2	1	1	0	3.7	3.9	0.2	-0.43	-0.43	0	0	0	0	0	0
6/20/2024 14:28	53903	HALI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/20/2024 14:28	56803	BENV_T1	6	7	1	2.18	2.4	0.22	0	0	0	0	0	0	0	0
6/20/2024 14:28	56801	BENV_T1	5	6	1	0.48	0.68	0.2	-0.04	-0.02	2	2	0	1200	1200	0
6/20/2024 14:29	53902	HALI_T2	1	1	0	3.7	3.9	0.2	-0.43	-0.43	0	0	0	0	0	0
6/20/2024 14:29	53903	HALI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/20/2024 14:34	58201	NEWV_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/20/2024 14:34	58202	NEWV_T1	0	0	0	0	0	0	0.36	0.4	0	0	0	0	0	0
6/20/2024 14:38	56803	BENV_T1	7	7	0	2.3	2.2	-0.1	0	0	0	0	0	0	0	0
6/20/2024 14:38	56801	BENV_T1	6	8	2	0.5	0.65	0.15	-0.01	0	1	1	0	600	600	0
6/20/2024 14:39	56803	BENV_T1	7	7	0	2.3	2.2	-0.1	0	0	0	0	0	0	0	0
6/20/2024 14:39	56801	BENV_T1	6	8	2	0.5	0.65	0.15	-0.02	0.01	2	2	0	1200	1200	0
6/20/2024 14:40	46204	DANV_T2	18	56	38	0.21	0.53	0.32	0	0	0	0	0	0	0	0
6/20/2024 14:40	56803	BENV_T1	7	7	0	2.3	2.2	-0.1	0	0	0	0	0	0	0	0
6/20/2024 14:40	56801	BENV_T1	6	8	2	0.5	0.65	0.15	-0.01	0	1	1	0	600	600	0
6/20/2024 14:40	60801	BUCK_T1	0	0	0	0	0	0	-0.87	0.06	1	1	0	600	600	0
6/20/2024 14:40	67602	WARW_T2	0	0	0	0	0	0	0.59	0.52	2	2	0	1500	1500	0
6/20/2024 14:40	46205	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/20/2024 14:40	46203	DANV_T2	3	2	-1	0.27	0.15	-0.12	-1.96	-1.88	0	0	0	0	0	0
6/20/2024 14:40	46206	DANV_T2	69	167	98	0.9	1.05	0.15	0	0	0	0	0	0	0	0
6/20/2024 14:41	67602	WARW_T2	0	0	0	0	0	0	0.59	0.52	2	2	0	1500	1500	0
6/20/2024 14:41	56801	BENV_T1	6	8	2	0.5	0.65	0.15	-0.01	0	1	1	0	600	600	0
6/20/2024 14:41	56803	BENV_T1	7	7	0	2.3	2.2	-0.1	0	0	0	0	0	0	0	0
6/20/2024 14:43	56801	BENV_T1	6	8	2	0.5	0.65	0.15	-0.01	0	1	1	0	600	600	0
6/20/2024 14:43	56803	BENV_T1	7	7	0	2.3	2.2	-0.1	0	0	0	0	0	0	0	0
6/20/2024 14:45	53902	HALI_T2	1	1	0	3.7	4	0.3	-0.86	-0.84	0	0	0	0	0	0
6/20/2024 14:45	53903	HALI_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/20/2024 14:47	40101	HUNT_T2	312	356	44	0.71	0.7	-0.01	-0.93	-0.93	0	0	0	0	0	0
6/20/2024 14:48	64202	KINZ_T1	1	4	3	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/20/2024 14:48	64201	KINZ_T1	4	11	7	0.25	0.28	0.03	0	0	0	0	0	0	0	0
6/20/2024 14:48	64203	KINZ_T1	2	11	9	2.4	1.09	-1.31	0.54	0.67	3	3	0	2100	2100	0
6/20/2024 14:48	64204	KINZ_T1	1	5	4	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/20/2024 14:49	64203	KINZ_T1	2	11	9	2.4	1.09	-1.31	0	0	0	0	0	0	0	0
6/20/2024 14:49	64204	KINZ_T1	1	5	4	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/20/2024 14:49	64201	KINZ_T1	4	11	7	0.25	0.28	0.03	-0.72	-0.53	5	5	0	3300	3300	0
6/20/2024 14:49	64202	KINZ_T1	1	4	3	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/20/2024 14:50	12704	MACU_T1	5	2	-3	0.34	0.15	-0.19	0	0	0	0	0	0	0	0
6/20/2024 14:50	12701	MACU_T1	9	11	2	0.46	0.38	-0.08	-1.18	-1.17	2	2	0	2400	2400	0
6/20/2024 14:53	65202	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 14:53	65205	PRIN_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
6/20/2024 14:53	27205	YATE_T1	3	3	0	1.1	0.53	-0.57	0	0	0	0	0	0	0	0
6/20/2024 14:53	27201	YATE_T1	13	19	6	0.59	0.46	-0.13	-0.26	-0.25	0	0	0	0	0	0
6/20/2024 14:54	56803	BENV_T1	6	9	3	2.4	1.77	-0.63	0	0	0	0	0	0	0	0
6/20/2024 14:54	56801	BENV_T1	6	8	2	0.68	0.61	-0.07	0.01	0.05	3	3	0	1800	1800	0
6/20/2024 14:55	61701	ELIZ_T1	1	1	0	1.9	1.7	-0.2	1.59	1.49	0	0	0	0	0	0
6/20/2024 14:55	56803	BENV_T1	6	9	3	2.4	1.77	-0.63	0	0	0	0	0	0	0	0
6/20/2024 14:55	56801	BENV_T1	6	8	2	0.68	0.61	-0.07	0	0.02	1	1	0	600	600	0
6/20/2024 14:55	15001	BLMO_T1	3	5	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 14:56	56803	BENV_T1	6	9	3	2.4	1.77	-0.63	0	0	0	0	0	0	0	0
6/20/2024 14:56	56801	BENV_T1	6	8	2	0.68	0.61	-0.07	0.01	0.03	2	2	0	1200	1200	0
6/20/2024 14:57	67602	WARW_T2	0	0	0	0	0	0	0.52	0.51	2	2	0	1500	1500	0
6/20/2024 14:57	61701	ELIZ_T1	1	1	0	1.9	1.7	-0.2	1.59	1.49	0	0	0	0	0	0
6/20/2024 14:58	60801	BUCK_T1	0	0	0	0	0	0	0.06	0.05	1	1	0	600	600	0
6/20/2024 14:58	61701	ELIZ_T1	1	1	0	1.9	1.7	-0.2	1.59	1.49	0	0	0	0	0	0
6/20/2024 14:58	56504	ROCK_T2	1	7	6	0.2	0	-0.2	-0.35	-0.33	0	0	0	0	0	0
6/20/2024 14:58	56501	ROCK_T2	1	5	4	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
6/20/2024 14:59	56501	ROCK_T2	1	5	4	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
6/20/2024 14:59	56504	ROCK_T2	1	7	6	0.2	0	-0.2	-0.35	-0.33	0	0	0	0	0	0
6/20/2024 15:00	56504	ROCK_T2	3	7	4	0.27	0.33	0.06	-0.35	-0.33	0	0	0	0	0	0
6/20/2024 15:00	56501	ROCK_T2	5	2	-3	0.36	0.4	0.04	0	0	0	0	0	0	0	0
6/20/2024 15:01	56501	ROCK_T2	5	2	-3	0.36	0.4	0.04	0	0	0	0	0	0	0	0
6/20/2024 15:01	56504	ROCK_T2	3	7	4	0.27	0.33	0.06	-0.35	-0.33	0	0	0	0	0	0
6/20/2024 15:01	53902	HALI_T2	1	1	0	3.7	4	0.3	-0.42	-0.42	0	0	0	0	0	0
6/20/2024 15:01	42901	MIDD_T2	6	6	0	0.93	1.47	0.54	0	0	0	0	0	0	0	0
6/20/2024 15:01	53903	HALI_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
6/20/2024 15:01	42902	MIDD_T2	43	49	6	0.98	0.84	-0.14	0.13	0.07	2	2	0	900	900	0
6/20/2024 15:02	56504	ROCK_T2	3	7	4	0.27	0.33	0.06	-0.35	-0.33	0	0	0	0	0	0
6/20/2024 15:02	42902	MIDD_T2	43	49	6	0.98	0.84	-0.14	0.13	0.07	2	2	0	900	900	0
6/20/2024 15:02	42901	MIDD_T2	6	6	0	0.93	1.47	0.54	0	0	0	0	0	0	0	0
6/20/2024 15:02	58003	WCAR_T1	2	3	1	0.15	0.5	0.35	0	0	0	0	0	0	0	0
6/20/2024 15:02	56501	ROCK_T2	5	2	-3	0.36	0.4	0.04	0	0	0	0	0	0	0	0
6/20/2024 15:02	58001	WCAR_T1	1	1	0	0.1	0.4	0.3	-0.68	-0.68	0	0	0	0	0	0
6/20/2024 15:03	42901	MIDD_T2	6	6	0	0.93	1.47	0.54	0	0	0	0	0	0	0	0
6/20/2024 15:03	42902	MIDD_T2	43	49	6	0.98	0.84	-0.14	0.13	0.07	2	2	0	900	900	0
6/20/2024 15:03	46903	MNTG_T2	7	9	2	0.74	0.63	-0.11	0	0	0	0	0	0	0	0
6/20/2024 15:03	46902	MNTG_T2	15	2	-13	0.21	0.15	-0.06	0	0	0	0	0	0	0	0
6/20/2024 15:03	46901	MNTG_T2	6	1	-5	0.18	0.1	-0.08	0.74	0.77	1	1	0	1200	1200	0
6/20/2024 15:04	46903	MNTG_T2	7	9	2	0.74	0.63	-0.11	0.79	0.71	1	1	0	600	600	0
6/20/2024 15:04	46901	MNTG_T2	6	1	-5	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
6/20/2024 15:04	46902	MNTG_T2	15	2	-13	0.21	0.15	-0.06	0	0	0	0	0	0	0	0
6/20/2024 15:04	42901	MIDD_T2	6	6	0	0.93	1.47	0.54	0	0	0	0	0	0	0	0
6/20/2024 15:04	42902	MIDD_T2	43	49	6	0.98	0.84	-0.14	0.13	0.07	2	2	0	900	900	0
6/20/2024 15:05	56501	ROCK_T2	5	2	-3	0.36	0.4	0.04	0	0	0	0	0	0	0	0
6/20/2024 15:05	42902	MIDD_T2	43	49	6	0.98	0.84	-0.14	0.26	0.14	4	4	0	1800	1800	0
6/20/2024 15:05	45602	WOOL_T1	1	5	4	0.6	0.33	-0.27	0.93	0.94	0	0	0	0	0	0
6/20/2024 15:05	56504	ROCK_T2	3	7	4	0.27	0.33	0.06	-0.35	-0.33	0	0	0	0	0	0
6/20/2024 15:05	45601	WOOL_T1	2	2	0	1.1	0.55	-0.55	0	0	0	0	0	0	0	0
6/20/2024 15:05	42901	MIDD_T2	6	6	0	0.93	1.47	0.54	0	0	0	0	0	0	0	0
6/20/2024 15:07	45602	WOOL_T1	1	5	4	0.6	0.33	-0.27	1.88	1.9	0	0	0	0	0	0
6/20/2024 15:07	45601	WOOL_T1	2	2	0	1.1	0.55	-0.55	0	0	0	0	0	0	0	0
6/20/2024 15:10	64101	REFR_T1	10	12	2	1.55	1.77	0.22	0.11	0.13	0	0	0	0	0	0
6/20/2024 15:11	46204	DANV_T2	56	74	18	0.51	0.53	0.02	0	0	0	0	0	0	0	0
6/20/2024 15:11	46203	DANV_T2	2	4	2	0.1	0.1	0	-1.89	-1.87	0	0	0	0	0	0
6/20/2024 15:11	46205	DANV_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
6/20/2024 15:11	46206	DANV_T2	165	164	-1	1.14	1.08	-0.06	0	0	0	0	0	0	0	0
6/20/2024 15:16	11103	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 15:16	11102	EGYP_T1	15	28	13	1.1	1.08	-0.02	0	0	0	0	0	0	0	0
6/20/2024 15:16	11104	EGYP_T1	6	38	32	1.78	1.03	-0.75	0.48	0.5	1	1	0	900	900	0
6/20/2024 15:16	11101	EGYP_T1	4	1	-3	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/20/2024 15:17	52002	LING_T2	13	25	12	0.33	0.4	0.07	0	0	0	0	0	0	0	0
6/20/2024 15:17	52004	LING_T2	0	2	2	0	0	0	0.35	0.35	0	0	0	0	0	0
6/20/2024 15:17	52006	LING_T2	0	6	6	0	0.47	0.47	0	0	0	0	0	0	0	0
6/20/2024 15:21	64101	REFR_T1	11	14	3	1.77	1.95	0.18	0.13	0.12	0	0	0	0	0	0
6/20/2024 15:22	66503	SMAN_T2	4	8	4	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
6/20/2024 15:22	20601	GRWO_T2	367	352	-15	1.22	1.2	-0.02	0.59	0.59	0	0	0	0	0	0
6/20/2024 15:22	66505	SMAN_T2	0	1	1	0	0	0	0.18	0.28	3	3	0	1700	1700	0
6/20/2024 15:22	66504	SMAN_T2	4	6	2	0.3	0.35	0.05	0	0	0	0	0	0	0	0
6/20/2024 15:23	66503	SMAN_T2	4	8	4	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
6/20/2024 15:23	66504	SMAN_T2	4	6	2	0.3	0.35	0.05	0	0	0	0	0	0	0	0
6/20/2024 15:23	66505	SMAN_T2	0	1	1	0	0	0	0.18	0.28	3	3	0	1700	1700	0
6/20/2024 15:25	61701	ELIZ_T1	1	1	0	1.7	1.6	-0.1	1.61	1.65	0	0	0	0	0	0
6/20/2024 15:27	51804	EBEN_T2	3	10	7	0.63	0.38	-0.25	0	0	0	0	0	0	0	0
6/20/2024 15:27	46206	DANV_T2	143	197	54	1.12	1.11	-0.01	0	0	0	0	0	0	0	0
6/20/2024 15:27	51802	EBEN_T2	16	20	4	1.63	1.56	-0.07	1	1.02	1	1	0	900	900	0
6/20/2024 15:27	46205	DANV_T2	2	2	0	0.45	0	-0.45	0	0	0	0	0	0	0	0
6/20/2024 15:27	46204	DANV_T2	71	115	44	0.54	0.53	-0.01	0	0	0	0	0	0	0	0
6/20/2024 15:27	46203	DANV_T2	4	4	0	0.1	0	-0.1	-3.73	-3.74	0	0	0	0	0	0
6/20/2024 15:28	56501	ROCK_T2	1	2	1	0.4	0.1	-0.3	-1.3	-1.28	0	0	0	0	0	0
6/20/2024 15:28	56504	ROCK_T2	4	7	3	0.33	0.51	0.18	0	0	0	0	0	0	0	0
6/20/2024 15:30	41901	REED_T1	3	2	-1	0.27	0.3	0.03	0	0	0	0	0	0	0	0
6/20/2024 15:30	41902	REED_T1	61	169	108	0.63	0.64	0.01	0.04	-0.16	1	1	0	900	900	0
6/20/2024 15:30	41903	REED_T1	5	6	1	1.08	0.74	-0.34	0	0	0	0	0	0	0	0
6/20/2024 15:33	41903	REED_T1	5	6	1	1.08	0.74	-0.34	0	0	0	0	0	0	0	0
6/20/2024 15:33	41902	REED_T1	61	169	108	0.63	0.64	0.01	0.04	-0.16	1	1	0	900	900	0
6/20/2024 15:33	41901	REED_T1	3	2	-1	0.27	0.3	0.03	0	0	0	0	0	0	0	0
6/20/2024 15:36	45303	WBER_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/20/2024 15:36	45302	WBER_T2	2	23	21	0.45	0.39	-0.06	1.91	1.89	0	0	0	0	0	0
6/20/2024 15:36	57401	SPAN_T1	6	16	10	0.57	0.5	-0.07	-2.77	-2.34	4	4	0	3000	3000	0
6/20/2024 15:36	57403	SPAN_T1	7	15	8	0.41	0.46	0.05	0	0	0	0	0	0	0	0
6/20/2024 15:37	57403	SPAN_T1	7	15	8	0.41	0.46	0.05	0	0	0	0	0	0	0	0
6/20/2024 15:37	57401	SPAN_T1	6	16	10	0.57	0.5	-0.07	-1.17	-1.14	2	2	0	1500	1500	0
6/20/2024 15:40	57401	SPAN_T1	6	16	10	0.57	0.5	-0.07	-1.17	-1.14	2	2	0	1500	1500	0
6/20/2024 15:40	57403	SPAN_T1	7	15	8	0.41	0.46	0.05	0	0	0	0	0	0	0	0
6/20/2024 15:40	10903	COOP_T2	0	0	0	0	0	0	-1.2	-1.18	1	1	0	600	600	0
6/20/2024 15:41	56801	BENV_T1	7	8	1	0.66	0.48	-0.18	0.13	0.17	3	3	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/20/2024 15:41	45302	WBER_T2	2	23	21	0.45	0.39	-0.06	1.91	1.89	0	0	0	0	0	0
6/20/2024 15:41	45303	WBER_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/20/2024 15:41	56803	BENV_T1	8	10	2	1.91	2.09	0.18	0	0	0	0	0	0	0	0
6/20/2024 15:42	56803	BENV_T1	8	10	2	1.91	2.09	0.18	0	0	0	0	0	0	0	0
6/20/2024 15:42	44301	BEAV_T2	49	55	6	0.77	0.6	-0.17	0.57	0.32	2	2	0	1500	1500	0
6/20/2024 15:42	57506	LAWN_T3	12	15	3	0.58	0.62	0.04	0	0	0	0	0	0	0	0
6/20/2024 15:42	56801	BENV_T1	7	8	1	0.66	0.48	-0.18	0.13	0.17	3	3	0	1800	1800	0
6/20/2024 15:42	57502	LAWN_T3	4	11	7	0.58	0.1	-0.48	-0.81	-0.83	0	0	0	0	0	0
6/20/2024 15:42	57505	LAWN_T3	7	4	-3	0.69	0.3	-0.39	0	0	0	0	0	0	0	0
6/20/2024 15:43	56801	BENV_T1	7	8	1	0.66	0.48	-0.18	0.04	0.06	1	1	0	600	600	0
6/20/2024 15:43	56803	BENV_T1	8	10	2	1.91	2.09	0.18	0	0	0	0	0	0	0	0
6/20/2024 15:49	64101	REFR_T1	13	11	-2	1.68	1.21	-0.47	0.12	0.13	0	0	0	0	0	0
6/20/2024 15:51	45302	WBER_T2	23	31	8	0.44	0.48	0.04	1.89	1.88	0	0	0	0	0	0
6/20/2024 15:51	45303	WBER_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/20/2024 15:52	64101	REFR_T1	13	11	-2	1.68	1.21	-0.47	0.13	0.17	0	0	0	0	0	0
6/20/2024 15:57	45303	WBER_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/20/2024 15:57	45302	WBER_T2	23	31	8	0.44	0.48	0.04	1.89	1.88	0	0	0	0	0	0
6/20/2024 15:58	60801	BUCK_T1	0	0	0	0	0	0	0.04	-0.52	1	1	0	600	600	0
6/20/2024 15:59	12302	LANA_T2	4	16	12	0.33	0.15	-0.18	-1.41	-1.37	3	3	0	2700	2700	0
6/20/2024 15:59	12305	LANA_T2	12	15	3	0.83	1	0.17	0	0	0	0	0	0	0	0
6/20/2024 15:59	12304	LANA_T2	225	260	35	1.2	1.18	-0.02	0	0	0	0	0	0	0	0
6/20/2024 15:59	12301	LANA_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 16:04	65001	NEFF_T2	0	0	0	0	0	0	0.73	0.64	1	1	0	1200	1200	0
6/20/2024 16:05	64101	REFR_T1	10	11	1	1.21	1.56	0.35	0.13	0.17	0	0	0	0	0	0
6/20/2024 16:08	14401	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 16:08	14404	SSLA_T1	1	1	0	2.8	3.2	0.4	0	0	0	0	0	0	0	0
6/20/2024 16:08	14403	SSLA_T1	5	3	-2	0.84	0.3	-0.54	1.87	1.64	4	4	0	2400	2400	0
6/20/2024 16:08	56803	BENV_T1	10	11	1	1.85	2.21	0.36	0	0	0	0	0	0	0	0
6/20/2024 16:08	56801	BENV_T1	4	8	4	0.6	0.66	0.06	0.07	-0.48	1	2	1	600	1200	600
6/20/2024 16:09	67804	WLAN_T1	10	10	0	0.72	0.75	0.03	0	0	0	0	0	0	0	0
6/20/2024 16:09	56803	BENV_T1	10	11	1	1.85	2.21	0.36	0	0	0	0	0	0	0	0
6/20/2024 16:09	67801	WLAN_T1	5	1	-4	0.64	0.2	-0.44	-0.95	-0.89	0	0	0	0	0	0
6/20/2024 16:09	56801	BENV_T1	4	8	4	0.6	0.66	0.06	0.14	-0.96	2	4	2	1200	2400	1200
6/20/2024 16:10	56801	BENV_T1	4	8	4	0.6	0.66	0.06	0.07	-0.48	1	2	1	600	1200	600
6/20/2024 16:10	56803	BENV_T1	10	11	1	1.85	2.21	0.36	0	0	0	0	0	0	0	0
6/20/2024 16:11	56803	BENV_T1	10	11	1	1.85	2.21	0.36	0	0	0	0	0	0	0	0
6/20/2024 16:11	53502	EVIL_T2	5	2	-3	1.24	1.45	0.21	0	0	0	0	0	0	0	0
6/20/2024 16:11	53501	EVIL_T2	1	3	2	0.4	0.25	-0.15	-0.99	-1.02	4	4	0	2700	2700	0
6/20/2024 16:11	56801	BENV_T1	4	8	4	0.6	0.66	0.06	0.07	-0.48	1	2	1	600	1200	600
6/20/2024 16:12	56803	BENV_T1	10	11	1	1.85	2.21	0.36	0	0	0	0	0	0	0	0
6/20/2024 16:12	56801	BENV_T1	4	8	4	0.6	0.66	0.06	0.07	-0.48	1	2	1	600	1200	600
6/20/2024 16:13	56801	BENV_T1	4	8	4	0.6	0.66	0.06	0.14	-0.96	2	4	2	1200	2400	1200
6/20/2024 16:13	56803	BENV_T1	10	11	1	1.85	2.21	0.36	0	0	0	0	0	0	0	0
6/20/2024 16:31	49803	UNIV_T1	8	12	4	0.31	0.34	0.03	-0.13	-0.12	0	0	0	0	0	0
6/20/2024 17:24	57401	SPAN_T1	134	155	21	0.41	0.37	-0.04	-0.99	-0.94	2	2	0	1500	1500	0
6/20/2024 17:24	57403	SPAN_T1	32	22	-10	1.02	0.69	-0.33	0	0	0	0	0	0	0	0
6/20/2024 18:51	58001	WCAR_T1	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
6/20/2024 18:51	58003	WCAR_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
6/20/2024 20:13	20402	ASHF_T2	29	19	-10	0.79	0.93	0.14	0	0	0	0	0	0	0	0
6/20/2024 20:13	20401	ASHF_T2	3	6	3	0.57	0.43	-0.14	0	0	0	0	0	0	0	0
6/20/2024 20:13	20403	ASHF_T2	4	16	12	0.43	0.5	0.07	0.09	0	0	0	0	0	0	0
6/20/2024 20:16	57505	LAWN_T3	3	2	-1	0.67	1.4	0.73	0.47	0.45	0	0	0	0	0	0
6/20/2024 20:16	57506	LAWN_T3	2	7	5	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/20/2024 20:17	47001	HUGH_T2	0	0	0	0	0	0	-0.85	-0.91	1	1	0	900	900	0
6/20/2024 20:20	47001	HUGH_T2	0	0	0	0	0	0	-0.85	-0.91	1	1	0	900	900	0
6/20/2024 20:22	46302	ROHR_T1	7	5	-2	1.23	1.74	0.51	0	0	0	0	0	0	0	0
6/20/2024 20:22	46301	ROHR_T1	28	72	44	0.16	0.27	0.11	0.98	0.97	0	0	0	0	0	0
6/20/2024 20:23	46302	ROHR_T1	7	5	-2	1.23	1.74	0.51	0.51	0.51	0	0	0	0	0	0
6/20/2024 20:23	46301	ROHR_T1	28	72	44	0.16	0.27	0.11	0	0	0	0	0	0	0	0
6/20/2024 20:26	46302	ROHR_T1	7	5	-2	1.23	1.74	0.51	0.51	0.51	0	0	0	0	0	0
6/20/2024 20:26	46301	ROHR_T1	28	72	44	0.16	0.27	0.11	0	0	0	0	0	0	0	0
6/20/2024 20:28	61102	BERK_T5	0	0	0	0	0	0	0.5	0.54	2	2	0	1500	1500	0
6/20/2024 20:30	47401	PENS_T1	8	7	-1	1.29	1.52	0.23	0.65	0.6	0	0	0	0	0	0
6/20/2024 20:30	47402	PENS_T1	3	1	-2	0.47	0	-0.47	0	0	0	0	0	0	0	0
6/20/2024 20:33	53601	DALM_T2	1	1	0	0.4	0.4	0	-0.34	-0.35	1	1	0	600	600	0
6/20/2024 20:36	51101	CARL_T1	1	1	0	6.9	6.7	-0.2	0	0	0	0	0	0	0	0
6/20/2024 20:36	23201	HIRU_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 20:36	51104	CARL_T1	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
6/20/2024 20:36	51108	CARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/20/2024 20:36	23202	HIRU_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
6/20/2024 20:40	44601	SALE_T2	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
6/20/2024 20:42	29401	BELT_T1	17	25	8	0.14	0.22	0.08	0	0	1	1	0	900	900	0
6/20/2024 20:42	29402	BELT_T1	2	4	2	4.5	9.6	5.1	0	0	0	0	0	0	0	0
6/20/2024 20:45	29402	BELT_T1	3	2	-1	3.1	9.6	6.5	0	0	0	0	0	0	0	0
6/20/2024 20:45	29401	BELT_T1	19	31	12	0.16	0.24	0.08	0	0	1	1	0	900	900	0
6/20/2024 20:49	67201	TEHI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 20:49	67203	TEHI_T1	3	1	-2	0.3	0.2	-0.1	2.25	2.27	3	3	0	2100	2100	0
6/20/2024 20:50	40602	PIGR_T1	2	1	-1	0.75	1.1	0.35	0	0	0	0	0	0	0	0
6/20/2024 20:50	40603	PIGR_T1	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/20/2024 20:50	40601	PIGR_T1	3	27	24	0.2	0.31	0.11	0.01	0.01	0	0	0	0	0	0
6/20/2024 20:51	51108	CARL_T1	0	1	1	0	0.2	0.2	0.02	0	0	0	0	0	0	0
6/20/2024 20:51	51101	CARL_T1	1	1	0	6.9	6.5	-0.4	0	0	0	0	0	0	0	0
6/20/2024 20:55	51108	CARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/20/2024 20:55	51101	CARL_T1	1	1	0	6.9	6.5	-0.4	0	0	0	0	0	0	0	0
6/20/2024 20:55	51107	CARL_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
6/20/2024 20:59	45501	DERR_T2	6	2	-4	0.57	0	-0.57	1.14	1.01	2	2	0	1800	1800	0
6/20/2024 20:59	45502	DERR_T2	9	2	-7	0.39	0.2	-0.19	0	0	0	0	0	0	0	0
6/20/2024 21:05	44202	POIN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 21:05	43202	MVIL_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
6/20/2024 21:05	44203	POIN_T2	4	3	-1	0.65	0	-0.65	-0.98	-1.27	3	3	0	3300	3300	0
6/20/2024 21:06	42902	MIDD_T2	0	5	5	0	0.77	0.77	0	0	0	0	0	0	0	0
6/20/2024 21:06	42902	MIDD_T2	31	43	12	0.53	0.65	0.12	-0.68	-0.71	1	1	0	600	600	0
6/20/2024 21:11	44202	POIN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 21:11	44203	POIN_T2	4	3	-1	0.65	0	-0.65	-1.27	-1.13	3	3	0	3300	3300	0
6/20/2024 21:26	62102	ELAN_T1	0	0	0	0	0	0	0.94	0.89	0	0	0	0	0	0
6/20/2024 21:26	62104	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/20/2024 21:26	16302	ALPA_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/20/2024 21:27	16302	ALPA_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/20/2024 21:28	16302	ALPA_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/20/2024 21:28	62104	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/20/2024 21:28	62102	ELAN_T1	0	0	0	0	0	0	0.94	0.89	0	0	0	0	0	0
6/20/2024 21:29	16302	ALPA_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/20/2024 21:30	62104	ELAN_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/20/2024 21:30	62102	ELAN_T1	0	0	0	0	0	0	1.88	1.78	0	0	0	0	0	0
6/20/2024 21:31	16103	BING_T2	0	0	0	0	0	0	-1.34	-1.32	1	1	0	900	900	0
6/20/2024 21:31	16101	BING_T2	7	3	-4	2.2	4.4	2.2	0	0	0	0	0	0	0	0
6/20/2024 21:35	16101	BING_T2	7	3	-4	2.2	4.4	2.2	0	0	0	0	0	0	0	0
6/20/2024 21:35	16102	BING_T2	0	0	0	0	0	0	-1.16	-1.19	2	2	0	2100	2100	0
6/20/2024 21:36	55002	NEWP_T1	6	6	0	0.65	1.08	0.43	0.05	0.04	0	0	0	0	0	0
6/20/2024 21:38	55002	NEWP_T1	6	6	0	0.65	1.08	0.43	0.07	0.05	0	0	0	0	0	0
6/20/2024 21:39	13904	SEID_T1	53	47	-6	1.16	0.47	-0.69	0	0	0	0	0	0	0	0
6/20/2024 21:39	13903	SEID_T1	25	23	-2	0.48	0.3	-0.18	0.75	0.73	1	1	0	600	600	0
6/20/2024 21:40	55002	NEWP_T1	6	6	0	0.65	1.08	0.43	0.04	0.03	0	0	0	0	0	0
6/20/2024 21:49	12301	LANA_T2	0	0	0	0	0	0	-0.89	-0.73	1	1	0	1200	1200	0
6/20/2024 21:49	12304	LANA_T2	3	2	-1	0.63	0.8	0.17	0	0	0	0	0	0	0	0
6/20/2024 21:50	12701	MACU_T1	1	0	-1	0.1	0	-0.1	-0.72	-0.74	1	1	0	1200	1200	0
6/20/2024 21:53	42701	AUGU_T1	97	97	0	2.34	1.98	-0.36	0	0	0	0	0	0	0	0
6/20/2024 21:56	44801	EDAN_T2	3	2	-1	0.83	1.2	0.37	0.98	0.94	0	0	0	0	0	0
6/20/2024 21:58	42701	AUGU_T1	97	97	0	2.34	1.98	-0.36	0	0	0	0	0	0	0	0
6/20/2024 22:00	42701	AUGU_T1	83	97	14	1.99	2.16	0.17	0	0	0	0	0	0	0	0
6/20/2024 22:03	16101	BING_T2	2	4	2	2	0.4	-1.6	0	0	0	0	0	0	0	0
6/20/2024 22:03	16103	BING_T2	0	0	0	0	0	0	-1.2	-1.24	2	2	0	1500	1500	0
6/20/2024 22:15	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:15	41602	CLEV_T1	2	1	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:16	61701	ELIZ_T1	1	1	0	3.3	3.7	0.4	1.15	1.03	0	0	0	0	0	0
6/20/2024 22:17	41602	CLEV_T1	2	1	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:17	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:18	41602	CLEV_T1	2	1	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:18	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:21	13606	RICH_T2	1	1	0	7.2	6.7	-0.5	1.2	1.13	0	0	0	0	0	0
6/20/2024 22:28	14403	SSLA_T1	1	0	-1	0.3	0	-0.3	1.21	1.2	0	0	0	0	0	0
6/20/2024 22:28	14404	SSLA_T1	1	1	0	3	3.2	0.2	0	0	0	0	0	0	0	0
6/20/2024 22:29	54203	PENN_T1	5	5	0	0.4	0.88	0.48	0	0	0	0	0	0	0	0
6/20/2024 22:29	61303	EARL_T1	0	0	0	0	0	0	0.38	0.54	0	0	0	0	0	0
6/20/2024 22:29	48601	POCA_T1	0	0	0	0	0	0	-0.43	-0.45	1	1	0	1200	1200	0
6/20/2024 22:29	54203	PENN_T1	4	5	1	0.55	0.8	0.25	-1.56	-1.57	0	0	0	0	0	0
6/20/2024 22:30	65901	SAKR_T2	1	1	0	7.1	7.5	0.4	-0.84	-0.88	2	2	0	1500	1500	0
6/20/2024 22:30	65604	QVIL_T2	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
6/20/2024 22:30	46101	MACI_T2	0	4	4	0	0.1	0.1	-0.43	-0.44	1	1	0	1200	1200	0
6/20/2024 22:30	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/20/2024 22:30	52402	GRPA_T2	1	3	2	1	0.1	-0.9	0	0	0	0	0	0	0	0
6/20/2024 22:30	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	-0.38	-0.41	0	0	0	0	0	0
6/20/2024 22:30	29402	BELT_T1	1	1	0	7.4	7.9	0.5	0	0	0	0	0	0	0	0
6/20/2024 22:30	64401	LAND_T1	0	0	0	0	0	0	-0.59	-0.61	1	1	0	600	600	0
6/20/2024 22:31	41304	FISH_T2	1	1	0	0	0	0	-0.39	-0.44	0	0	0	0	0	0
6/20/2024 22:31	41302	FISH_T2	15	15	0	2.93	1.95	-0.98	0	0	0	0	0	0	0	0
6/20/2024 22:31	47401	PENS_T1	0	0	0	0	0	0	0.3	0.25	0	0	0	0	0	0
6/20/2024 22:31	60803	BUCK_T1	15	6	-9	0.4	0.2	-0.2	-0.91	-0.93	1	1	0	600	600	0
6/20/2024 22:31	22101	EDEL_T2	0	0	0	0	0	0	1.57	1.5	1	1	0	1200	1200	0
6/20/2024 22:31	46801	HEPB_T2	30	3	-27	0.37	0.7	0.33	0	0	0	0	0	0	0	0
6/20/2024 22:31	46803	HEPB_T2	11	0	-11	0.29	0	-0.29	0.77	0.77	0	0	0	0	0	0
6/20/2024 22:31	64702	LITI_T2	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
6/20/2024 22:32	22903	HARW_T1	22	22	0	0.97	1.23	0.26	0	0	0	0	0	0	0	0
6/20/2024 22:32	64903	MILL_T2	4	1	-3	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/20/2024 22:32	22901	HARW_T1	0	0	0	0	0	0	-0.2	-0.14	1	1	0	1200	1200	0
6/20/2024 22:32	64201	KINZ_T1	1	1	0	0.2	0.9	0.7	-0.28	-0.32	3	3	0	1500	1500	0
6/20/2024 22:32	64302	LINC_T2	0	1	1	0	0	0	1.62	1.58	0	0	0	0	0	0
6/20/2024 22:32	64202	KINZ_T1	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
6/20/2024 22:32	22905	HARW_T1	58	49	-9	1.53	1	-0.53	0	0	0	0	0	0	0	0
6/20/2024 22:32	64902	MILL_T2	0	0	0	0	0	0	-0.04	-0.07	1	1	0	900	900	0
6/20/2024 22:32	64401	LAND_T1	0	0	0	0	0	0	-0.59	-0.61	1	1	0	600	600	0
6/20/2024 22:32	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
6/20/2024 22:33	66302	MCGO_T2	0	0	0	0	0	0	-0.64	-0.78	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/20/2024 22:33	64702	LITI_T2	0	0	0	0	0	0	0.09	0.01	0	0	0	0	0	0
6/20/2024 22:33	42601	TUSC_T1	0	0	0	0	0	0	-2.15	-2.25	4	4	0	3600	3600	0
6/20/2024 22:33	46504	LOHA_T1	2	2	0	0.85	0.55	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:33	10805	CHHI_T2	9	24	15	1.57	1.44	-0.13	0	0	1	1	0	600	600	0
6/20/2024 22:33	20403	ASHF_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/20/2024 22:33	20402	ASHF_T2	4	8	4	0.13	0.35	0.22	0	0	0	0	0	0	0	0
6/20/2024 22:33	20401	ASHF_T2	1	0	-1	0.8	0	-0.8	-0.28	-0.31	1	1	0	600	600	0
6/20/2024 22:33	50502	MECH_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
6/20/2024 22:33	65001	NEFF_T2	0	0	0	0	0	0	-0.16	-0.17	1	1	0	1200	1200	0
6/20/2024 22:33	48602	POCA_T1	0	0	0	0	0	0	-0.12	-0.16	1	1	0	1200	1200	0
6/20/2024 22:33	50501	MECH_T1	0	0	0	0	0	0	-0.51	-0.58	0	0	0	0	0	0
6/20/2024 22:33	41302	FISH_T2	15	15	0	2.93	1.95	-0.98	0	0	0	0	0	0	0	0
6/20/2024 22:33	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:33	46501	LOHA_T1	0	0	0	0	0	0	0.18	0.16	1	1	0	1200	1200	0
6/20/2024 22:33	41304	FISH_T2	1	1	0	0	0	0	-0.39	-0.44	0	0	0	0	0	0
6/20/2024 22:33	65401	MARI_T1	8	4	-4	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/20/2024 22:34	46206	DANV_T2	5	5	0	1.02	1.3	0.28	2.25	2.25	2	2	0	2100	2100	0
6/20/2024 22:34	48901	FOSP_T2	0	0	0	0	0	0	-0.49	-0.5	2	2	0	1200	1200	0
6/20/2024 22:34	56802	BENV_T2	0	1	1	0	0.1	0.1	-0.91	-0.94	0	0	0	0	0	0
6/20/2024 22:34	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/20/2024 22:34	60803	BUCK_T1	15	6	-9	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/20/2024 22:34	66901	SHIL_T2	70	124	54	0.2	0.34	0.14	0	0	0	0	0	0	0	0
6/20/2024 22:34	24206	PROV_T4	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:34	67605	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:34	54203	PENN_T1	5	5	0	0.88	0.78	-0.1	0	0	0	0	0	0	0	0
6/20/2024 22:34	46901	MNTG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 22:34	24102	EHAZ_T1	1	2	1	1.7	0.9	-0.8	0.25	0.23	0	0	0	0	0	0
6/20/2024 22:34	52004	LING_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
6/20/2024 22:34	65004	NEFF_T2	0	0	0	0	0	0	-0.47	-0.49	1	1	0	600	600	0
6/20/2024 22:34	13903	SEID_T1	4	4	0	0.4	0	-0.4	0.67	0.62	1	1	0	600	600	0
6/20/2024 22:34	12802	MICK_T1	0	0	0	0	0	0	-0.77	-0.79	0	0	0	0	0	0
6/20/2024 22:34	20401	ASHF_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/20/2024 22:34	66902	SHIL_T2	25	180	155	0.17	0.26	0.09	-1.62	-1.65	0	0	0	0	0	0
6/20/2024 22:34	46903	MNTG_T2	0	0	0	0	0	0	0.51	0.44	1	1	0	600	600	0
6/20/2024 22:34	24101	EHAZ_T1	22	21	-1	3.12	0.1	-3.02	0	0	0	0	0	0	0	0
6/20/2024 22:34	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:34	65401	MARI_T1	8	4	-4	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/20/2024 22:34	60801	BUCK_T1	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
6/20/2024 22:34	66903	SHIL_T2	0	31	31	0	0.17	0.17	0	0	0	0	0	0	0	0
6/20/2024 22:34	50502	MECH_T1	1	1	0	1.4	1.6	0.2	0.31	0.28	0	0	0	0	0	0
6/20/2024 22:34	67603	WARW_T1	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
6/20/2024 22:34	46902	MNTG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/20/2024 22:34	41801	GOCI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:34	62102	ELAN_T1	0	0	0	0	0	0	1.39	1.28	0	0	0	0	0	0
6/20/2024 22:34	13904	SEID_T1	29	42	13	0.63	0.54	-0.09	0	0	0	0	0	0	0	0
6/20/2024 22:34	24902	WHHA_T1	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
6/20/2024 22:34	29402	BELT_T1	1	1	0	7.4	7.9	0.5	0	0	0	0	0	0	0	0
6/20/2024 22:34	12803	MICK_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
6/20/2024 22:34	20402	ASHF_T2	4	8	4	0.13	0.35	0.22	0	0	0	0	0	0	0	0
6/20/2024 22:34	43202	MVIL_T2	35	75	40	0.23	0.66	0.43	0	0	0	0	0	0	0	0
6/20/2024 22:34	20403	ASHF_T2	1	1	0	0.5	0	-0.5	0.91	0.85	0	0	0	0	0	0
6/20/2024 22:34	17002	RIRO_T2	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
6/20/2024 22:34	51905	COPA_T1	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
6/20/2024 22:34	24202	PROV_T4	0	0	0	0	0	0	0.17	0.12	1	1	0	1200	1200	0
6/20/2024 22:34	43201	MVIL_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
6/20/2024 22:34	62105	ELAN_T1	0	0	0	0	0	0	1.18	1.15	0	0	0	0	0	0
6/20/2024 22:34	54201	PENN_T1	5	6	1	0.8	0.68	-0.12	-1.56	-1.57	0	0	0	0	0	0
6/20/2024 22:34	24105	EHAZ_T1	4	4	0	5.75	5.78	0.03	0	0	0	0	0	0	0	0
6/20/2024 22:35	52502	PROG_T2	0	0	0	0	0	0	0.17	0.14	1	1	0	900	900	0
6/20/2024 22:35	10702	CATA_T2	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
6/20/2024 22:35	42302	MOWR_T2	0	0	0	0	0	0	1.46	1.45	0	0	0	0	0	0
6/20/2024 22:35	20601	GRWO_T2	4	1	-3	0.6	0.8	0.2	0.17	0.14	0	0	0	0	0	0
6/20/2024 22:35	13503	MCMI_T2	7	53	46	0.11	0.31	0.2	-0.59	-0.6	0	0	0	0	0	0
6/20/2024 22:35	51604	DUKE_T2	4	0	-4	0.15	0	-0.15	-2.05	-0.84	1	1	0	900	900	0
6/20/2024 22:35	47101	MARL_T1	53	39	-14	1.32	0.46	-0.86	-1.71	-1.8	1	1	0	600	600	0
6/20/2024 22:35	16102	BING_T2	0	9	9	0	0.17	0.17	-0.33	-0.35	1	1	0	1200	1200	0
6/20/2024 22:35	61501	EPET_T2	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
6/20/2024 22:35	10801	CHHI_T1	0	4	4	0	0	0	0	0	3	3	0	2100	2100	0
6/20/2024 22:35	66302	MCGO_T2	0	0	0	0	0	0	-0.64	-0.78	1	1	0	600	600	0
6/20/2024 22:35	45501	DERR_T2	0	0	0	0	0	0	0.13	0.17	2	2	0	1800	1800	0
6/20/2024 22:35	66504	SMAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:35	50502	MECH_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
6/20/2024 22:35	40302	TAMA_T3	0	1	1	0	0.2	0.2	-1.04	-1.07	0	0	0	0	0	0
6/20/2024 22:35	47104	MARL_T1	27	25	-2	1.06	0.65	-0.41	0	0	0	0	0	0	0	0
6/20/2024 22:35	16101	BING_T2	1	2	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/20/2024 22:35	14705	TREX_T1	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
6/20/2024 22:35	64902	MILL_T2	0	0	0	0	0	0	-0.04	-0.07	1	1	0	900	900	0
6/20/2024 22:35	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:35	48901	FOSP_T2	0	0	0	0	0	0	-0.49	-0.5	2	2	0	1200	1200	0
6/20/2024 22:35	50506	MECH_T1	0	0	0	0	0	0	1.34	1.31	0	0	0	0	0	0
6/20/2024 22:35	44201	POIN_T1	0	0	0	0	0	0	-1.58	-1.77	2	2	0	2100	2100	0
6/20/2024 22:35	10805	CHHI_T2	9	24	15	1.57	1.44	-0.13	0	0	1	1	0	600	600	0
6/20/2024 22:35	64903	MILL_T2	4	1	-3	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/20/2024 22:35	65401	MARI_T1	8	4	-4	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/20/2024 22:35	66702	STRA_T1	0	0	0	0	0	0	0	-0.22	2	2	0	1500	1500	0
6/20/2024 22:35	67605	WARW_T1	0	1	1	0	0	0	-0.86	-0.92	0	0	0	0	0	0
6/20/2024 22:35	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:35	66505	SMAN_T2	0	0	0	0	0	0	-0.11	-0.22	3	3	0	2100	2100	0
6/20/2024 22:35	61506	EPET_T2	0	0	0	0	0	0	-0.53	-0.48	1	1	0	900	900	0
6/20/2024 22:36	50502	MECH_T1	1	1	0	1.4	1.6	0.2	0.31	0.28	0	0	0	0	0	0
6/20/2024 22:36	64202	KINZ_T1	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
6/20/2024 22:36	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:36	12402	MILF_T1	1	2	1	0.7	0.8	0.1	0.64	0.62	0	0	0	0	0	0
6/20/2024 22:36	27005	BELL_T1	3	0	-3	0.17	0	-0.17	-0.83	-0.89	0	0	0	0	0	0
6/20/2024 22:36	67602	WARW_T2	0	0	0	0	0	0	0.22	0.2	2	2	0	1500	1500	0
6/20/2024 22:36	50501	MECH_T1	0	0	0	0	0	0	-0.51	-0.58	0	0	0	0	0	0
6/20/2024 22:36	43301	WATS_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/20/2024 22:36	66901	SHIL_T2	70	124	54	0.2	0.34	0.14	0	0	0	0	0	0	0	0
6/20/2024 22:36	43304	WATS_T2	11	12	1	0.48	0.1	-0.38	-0.61	-0.63	0	0	0	0	0	0
6/20/2024 22:36	66902	SHIL_T2	25	180	155	0.17	0.26	0.09	-1.65	-0.72	0	0	0	0	0	0
6/20/2024 22:36	51702	OBER_T1	2	2	0	1.6	1.8	0.2	-5.67	-5.64	4	4	0	2400	2400	0
6/20/2024 22:36	64201	KINZ_T1	1	1	0	0.2	0.9	0.7	-0.32	-0.37	3	3	0	1500	1500	0
6/20/2024 22:36	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:36	10705	CATA_T2	0	0	0	0	0	0	-1.3	-1.34	1	1	0	900	900	0
6/20/2024 22:36	22402	MORG_T2	4	4	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
6/20/2024 22:36	22405	MORG_T2	5	5	0	2.14	0.86	-1.28	-0.79	-0.81	0	0	0	0	0	0
6/20/2024 22:36	66903	SHIL_T2	0	31	31	0	0.17	0.17	0	0	0	0	0	0	0	0
6/20/2024 22:36	27201	YATE_T1	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
6/20/2024 22:36	61102	BERK_T5	0	0	0	0	0	0	-0.29	-0.24	4	4	0	3000	3000	0
6/20/2024 22:36	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/20/2024 22:36	27004	BELL_T1	6	6	0	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
6/20/2024 22:36	45602	WOOL_T1	26	20	-6	0.43	0.33	-0.1	0.66	0.62	0	0	0	0	0	0
6/20/2024 22:36	52502	PROG_T2	0	0	0	0	0	0	0.17	0.14	1	1	0	900	900	0
6/20/2024 22:36	55002	NEWP_T1	1	4	3	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/20/2024 22:36	46203	DANV_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
6/20/2024 22:36	41304	FISH_T2	1	1	0	0	0	0	-0.39	-0.44	0	0	0	0	0	0
6/20/2024 22:36	44201	POIN_T1	0	0	0	0	0	0	-1.77	-1.6	2	2	0	2100	2100	0
6/20/2024 22:36	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
6/20/2024 22:36	45302	WBER_T2	0	0	0	0	0	0	1.57	1.48	0	0	0	0	0	0
6/20/2024 22:36	46206	DANV_T2	5	5	0	1.02	1.3	0.28	0	0	0	0	0	0	0	0
6/20/2024 22:36	12802	MICK_T1	0	0	0	0	0	0	-0.79	-0.82	0	0	0	0	0	0
6/20/2024 22:36	12803	MICK_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
6/20/2024 22:36	45501	DERR_T2	0	0	0	0	0	0	0.17	0.16	2	2	0	1800	1800	0
6/20/2024 22:36	46803	HEPB_T2	11	0	-11	0.29	0	-0.29	0	0	0	0	0	0	0	0
6/20/2024 22:36	41302	FISH_T2	15	15	0	2.93	1.95	-0.98	0	0	0	0	0	0	0	0
6/20/2024 22:36	42902	MIDD_T2	0	0	0	0	0	0	-0.8	-0.73	1	1	0	600	600	0
6/20/2024 22:36	46801	HEPB_T2	30	3	-27	0.37	0.7	0.33	0.21	0.19	0	0	0	0	0	0
6/20/2024 22:36	40601	PIGR_T1	0	15	15	0	0.15	0.15	0	0	0	0	0	0	0	0
6/20/2024 22:36	55001	NEWP_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
6/20/2024 22:36	22401	MORG_T2	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
6/20/2024 22:37	57501	LAWN_T3	0	0	0	0	0	0	-1.21	-1.23	0	0	0	0	0	0
6/20/2024 22:37	47101	MARL_T1	53	39	-14	1.32	0.46	-0.86	-1.8	-1.84	1	1	0	600	600	0
6/20/2024 22:37	14404	SSLA_T1	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
6/20/2024 22:37	61303	EARL_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
6/20/2024 22:37	46206	DANV_T2	5	5	0	1.02	1.3	0.28	2.25	2.25	2	2	0	2100	2100	0
6/20/2024 22:37	10805	CHHI_T2	9	24	15	1.57	1.44	-0.13	0	0	1	1	0	600	600	0
6/20/2024 22:37	61501	EPET_T2	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
6/20/2024 22:37	14403	SSLA_T1	0	0	0	0	0	0	1.2	1.18	0	0	0	0	0	0
6/20/2024 22:37	43202	MVIL_T2	35	75	40	0.23	0.66	0.43	0	0	0	0	0	0	0	0
6/20/2024 22:37	24205	PROV_T3	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/20/2024 22:37	50506	MECH_T1	0	0	0	0	0	0	0.66	0.62	0	0	0	0	0	0
6/20/2024 22:37	50505	MECH_T1	0	0	0	0	0	0	-1.69	-1.71	0	0	0	0	0	0
6/20/2024 22:37	24201	PROV_T3	1	1	0	9.2	9	-0.2	-0.53	-0.56	1	1	0	1200	1200	0
6/20/2024 22:37	48301	ORWI_T1	2	2	0	4.55	5.1	0.55	0.82	0.78	0	0	0	0	0	0
6/20/2024 22:37	13002	NBET_T2	0	0	0	0	0	0	-1.2	-1.23	2	2	0	2400	2400	0
6/20/2024 22:37	61102	BERK_T5	0	0	0	0	0	0	-0.44	-0.36	6	6	0	4500	4500	0
6/20/2024 22:37	57502	LAWN_T3	0	0	0	0	0	0	-1.27	-1.3	0	0	0	0	0	0
6/20/2024 22:37	64902	MILL_T2	0	0	0	0	0	0	-0.13	-0.18	2	2	0	1800	1800	0
6/20/2024 22:37	55002	NEWP_T1	1	4	3	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/20/2024 22:37	54201	PENN_T1	5	6	1	0.8	0.68	-0.12	-1.57	-1.58	0	0	0	0	0	0
6/20/2024 22:37	11102	EGYP_T1	1	6	5	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/20/2024 22:37	47104	MARL_T1	27	25	-2	1.06	0.65	-0.41	0	0	0	0	0	0	0	0
6/20/2024 22:37	54203	PENN_T1	5	5	0	0.88	0.78	-0.1	0	0	0	0	0	0	0	0
6/20/2024 22:37	47401	PENS_T1	0	0	0	0	0	0	0.25	0.19	0	0	0	0	0	0
6/20/2024 22:37	61504	EPET_T2	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
6/20/2024 22:37	66903	SHIL_T2	0	31	31	0	0.17	0.17	0	0	0	0	0	0	0	0
6/20/2024 22:37	48901	FOSP_T2	0	0	0	0	0	0	-0.25	-0.26	1	1	0	600	600	0
6/20/2024 22:37	51702	OBER_T1	2	2	0	1.6	1.8	0.2	-2.82	-2.8	2	2	0	1200	1200	0
6/20/2024 22:37	20601	GRWO_T2	4	1	-3	0.6	0.8	0.2	0.14	0.11	0	0	0	0	0	0
6/20/2024 22:37	64903	MILL_T2	4	1	-3	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/20/2024 22:37	55001	NEWP_T1	0	0	0	0	0	0	-0.42	-0.52	0	0	0	0	0	0
6/20/2024 22:37	50502	MECH_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
6/20/2024 22:37	40101	HUNT_T2	1	0	-1	0.4	0	-0.4	-1.19	-1.23	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/20/2024 22:37	52501	PROG_T1	0	0	0	0	0	0	0.55	0.5	1	1	0	300	300	0
6/20/2024 22:37	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:37	24204	PROV_T3	1	1	0	7.1	6.8	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:37	43201	MVIL_T2	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
6/20/2024 22:37	51906	COPA_T1	0	0	0	0	0	0	-1.17	-0.29	1	1	0	600	600	0
6/20/2024 22:37	48602	POCA_T1	0	0	0	0	0	0	-0.16	-0.19	1	1	0	1200	1200	0
6/20/2024 22:37	55101	WERT_T1	0	0	0	0	0	0	-2.43	-2.56	4	4	0	3300	3300	0
6/20/2024 22:37	66901	SHIL_T2	70	124	54	0.2	0.34	0.14	-0.42	-0.46	0	0	0	0	0	0
6/20/2024 22:37	65401	MARI_T1	8	4	-4	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/20/2024 22:37	66902	SHIL_T2	25	180	155	0.17	0.26	0.09	0	0	0	0	0	0	0	0
6/20/2024 22:37	66302	MCGO_T2	0	0	0	0	0	0	-0.78	-0.85	1	1	0	600	600	0
6/20/2024 22:37	11104	EGYP_T1	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
6/20/2024 22:37	65302	NBRI_T2	0	0	0	0	0	0	-0.55	-0.48	1	1	0	600	600	0
6/20/2024 22:38	24902	WHHA_T1	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0	0
6/20/2024 22:38	54201	PENN_T1	5	6	1	0.8	0.68	-0.12	-1.57	-1.58	0	0	0	0	0	0
6/20/2024 22:38	42902	MIDD_T2	0	0	0	0	0	0	-0.8	-0.73	1	1	0	600	600	0
6/20/2024 22:38	55002	NEWP_T1	1	4	3	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/20/2024 22:38	64702	LITI_T2	0	0	0	0	0	0	0.01	0.06	0	0	0	0	0	0
6/20/2024 22:38	47104	MARL_T1	27	25	-2	1.06	0.65	-0.41	0	0	0	0	0	0	0	0
6/20/2024 22:38	57106	SPHI_T2	3	3	0	0.87	1	0.13	0	0	0	0	0	0	0	0
6/20/2024 22:38	41901	REED_T1	5	9	4	0.2	0.26	0.06	0	0	0	0	0	0	0	0
6/20/2024 22:38	40601	PIGR_T1	0	15	15	0	0.15	0.15	0.01	0.01	0	0	0	0	0	0
6/20/2024 22:38	46004	BERW_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:38	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:38	55001	NEWP_T1	0	0	0	0	0	0	-0.42	-0.52	0	0	0	0	0	0
6/20/2024 22:38	54203	PENN_T1	5	5	0	0.88	0.78	-0.1	0.74	0.7	0	0	0	0	0	0
6/20/2024 22:38	59002	MIFF_T1	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
6/20/2024 22:38	64904	MILL_T1	0	0	0	0	0	0	0.41	0.29	0	0	0	0	0	0
6/20/2024 22:38	41304	FISH_T2	1	1	0	0	0	0	-0.44	-0.4	0	0	0	0	0	0
6/20/2024 22:38	57104	SPHI_T2	1	1	0	2	1.8	-0.2	-0.04	-0.04	0	0	0	0	0	0
6/20/2024 22:38	60701	BREC_T1	0	0	0	0	0	0	-0.16	-0.27	2	2	0	1200	1200	0
6/20/2024 22:38	53903	HALI_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
6/20/2024 22:38	65401	MARI_T1	8	4	-4	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/20/2024 22:38	59003	MIFF_T1	1	1	0	0.2	0.2	0	-0.94	-0.19	0	0	0	0	0	0
6/20/2024 22:38	42601	TUSC_T1	0	0	0	0	0	0	-1.12	0.06	2	2	0	1800	1800	0
6/20/2024 22:38	50506	MECH_T1	0	0	0	0	0	0	1.31	1.24	0	0	0	0	0	0
6/20/2024 22:38	60502	NMAN_T2	0	0	0	0	0	0	0.38	0.31	0	0	0	0	0	0
6/20/2024 22:38	23001	SAJO_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
6/20/2024 22:38	57505	LAWN_T3	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
6/20/2024 22:38	48602	POCA_T1	0	0	0	0	0	0	-0.31	-0.39	2	2	0	2400	2400	0
6/20/2024 22:38	13503	MCMI_T2	7	53	46	0.11	0.31	0.2	-0.6	-0.62	0	0	0	0	0	0
6/20/2024 22:38	12302	LANA_T2	0	0	0	0	0	0	-1.98	-2.02	3	3	0	2700	2700	0
6/20/2024 22:38	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:38	60501	NMAN_T2	3	3	0	4.63	4.9	0.27	0	0	0	0	0	0	0	0
6/20/2024 22:38	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:38	47101	MARL_T1	53	39	-14	1.32	0.46	-0.86	-3.6	-3.67	2	2	0	1200	1200	0
6/20/2024 22:38	53902	HALI_T2	1	1	0	4.8	4.4	-0.4	-0.68	-0.71	0	0	0	0	0	0
6/20/2024 22:38	52502	PROG_T2	0	0	0	0	0	0	0.14	0.11	1	1	0	900	900	0
6/20/2024 22:38	45702	LIND_T2	8	0	-8	0.16	0	-0.16	-1.32	-1.35	0	0	0	0	0	0
6/20/2024 22:38	65001	NEFF_T2	0	0	0	0	0	0	-0.17	-0.21	1	1	0	1200	1200	0
6/20/2024 22:38	56504	ROCK_T2	2	2	0	0.2	0.1	-0.1	-0.84	-0.88	0	0	0	0	0	0
6/20/2024 22:38	12304	LANA_T2	2	0	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
6/20/2024 22:38	46002	BERW_T2	0	0	0	0	0	0	-1.03	-1.09	1	1	0	900	900	0
6/20/2024 22:38	50502	MECH_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
6/20/2024 22:38	66504	SMAN_T2	0	2	2	0	0	0	-1.19	-1.35	2	2	0	2400	2400	0
6/20/2024 22:38	45602	WOOL_T1	26	20	-6	0.43	0.33	-0.1	0.66	0.62	0	0	0	0	0	0
6/20/2024 22:38	51702	OBER_T1	2	2	0	1.6	1.8	0.2	-2.82	-2.8	2	2	0	1200	1200	0
6/20/2024 22:38	41302	FISH_T2	15	15	0	2.93	1.95	-0.98	0	0	0	0	0	0	0	0
6/20/2024 22:38	57101	SPHI_T2	6	6	0	0.63	0.93	0.3	0	0	0	0	0	0	0	0
6/20/2024 22:38	47401	PENS_T1	0	0	0	0	0	0	0.25	0.19	0	0	0	0	0	0
6/20/2024 22:38	41902	REED_T1	5	4	-1	0.24	0.2	-0.04	0.52	0.5	1	1	0	900	900	0
6/20/2024 22:39	41801	GOCI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:39	61301	EARL_T1	0	0	0	0	0	0	-1.27	-1.27	2	2	0	1800	1800	0
6/20/2024 22:39	22905	HARW_T1	58	49	-9	1.53	1	-0.53	0	0	0	0	0	0	0	0
6/20/2024 22:39	54203	PENN_T1	5	5	0	0.88	0.78	-0.1	0.74	0.7	0	0	0	0	0	0
6/20/2024 22:39	44703	MUNC_T2	0	0	0	0	0	0	1.08	1.05	0	0	0	0	0	0
6/20/2024 22:39	51704	OBER_T1	0	0	0	0	0	0	-2.85	-2.87	2	2	0	2400	2400	0
6/20/2024 22:39	55002	NEWP_T1	1	4	3	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/20/2024 22:39	53903	HALI_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
6/20/2024 22:39	46004	BERW_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:39	22903	HARW_T1	22	22	0	0.97	1.23	0.26	0	0	0	0	0	0	0	0
6/20/2024 22:39	60501	NMAN_T2	3	3	0	4.63	4.9	0.27	0	0	0	0	0	0	0	0
6/20/2024 22:39	60701	BREC_T1	0	0	0	0	0	0	-0.08	-0.13	1	1	0	600	600	0
6/20/2024 22:39	44201	PCIN_T1	0	0	0	0	0	0	-1.77	-1.6	2	2	0	2100	2100	0
6/20/2024 22:39	50505	MECH_T1	0	0	0	0	0	0	-1.69	-1.71	0	0	0	0	0	0
6/20/2024 22:39	22901	HARW_T1	0	0	0	0	0	0	-0.14	-0.19	1	1	0	1200	1200	0
6/20/2024 22:39	12801	MICK_T1	0	0	0	0	0	0	-0.73	-0.76	1	1	0	600	600	0
6/20/2024 22:39	56803	BENV_T1	3	3	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:39	57505	LAWN_T3	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
6/20/2024 22:39	57506	LAWN_T3	0	0	0	0	0	0	1.38	1.32	1	1	0	600	600	0
6/20/2024 22:39	65401	MARI_T1	8	4	-4	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/20/2024 22:39	55001	NEWP_T1	0	0	0	0	0	0	-0.85	-1.04	0	0	0	0	0	0
6/20/2024 22:39	48601	POCA_T1	0	0	0	0	0	0	-0.45	-0.46	1	1	0	1200	1200	0
6/20/2024 22:39	12803	MICK_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
6/20/2024 22:39	54206	PENN_T2	0	0	0	0	0	0	-0.94	-0.99	0	0	0	0	0	0
6/20/2024 22:39	57501	LAWN_T3	0	0	0	0	0	0	-1.21	-1.23	0	0	0	0	0	0
6/20/2024 22:39	51702	OBER_T1	2	2	0	1.6	1.8	0.2	-5.64	-5.61	4	4	0	2400	2400	0
6/20/2024 22:39	50502	MECH_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
6/20/2024 22:39	53902	HALI_T2	1	1	0	4.8	4.4	-0.4	-0.68	-0.71	0	0	0	0	0	0
6/20/2024 22:39	45602	WOOL_T1	26	20	-6	0.43	0.33	-0.1	1.97	1.87	0	0	0	0	0	0
6/20/2024 22:39	66501	SMAN_T2	0	0	0	0	0	0	-0.22	-0.25	3	3	0	2100	2100	0
6/20/2024 22:39	60502	NMAN_T2	0	0	0	0	0	0	0.76	0.62	0	0	0	0	0	0
6/20/2024 22:39	41902	REED_T1	5	4	-1	0.24	0.2	-0.04	0.52	0.5	1	1	0	900	900	0
6/20/2024 22:39	47401	PENS_T1	0	0	0	0	0	0	0.25	0.19	0	0	0	0	0	0
6/20/2024 22:39	46002	BERW_T2	0	0	0	0	0	0	-1.03	-1.09	1	1	0	900	900	0
6/20/2024 22:39	27604	WBI_T1	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
6/20/2024 22:39	54201	PENN_T1	5	6	1	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
6/20/2024 22:39	41901	REED_T1	5	9	4	0.2	0.26	0.06	0	0	0	0	0	0	0	0
6/20/2024 22:39	66302	MCGO_T2	0	0	0	0	0	0	-0.78	-0.85	1	1	0	600	600	0
6/20/2024 22:39	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:39	66504	SMAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:39	11507	FREE_T2	15	21	6	0.53	0.43	-0.1	0.57	0.57	1	1	0	600	600	0
6/20/2024 22:39	10702	CATA_T2	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
6/20/2024 22:39	61703	ELIZ_T1	0	0	0	0	0	0	-2.33	-2.56	2	2	0	2100	2100	0
6/20/2024 22:39	27302	PARR_T1	0	0	0	0	0	0	-1.16	-1.18	0	0	0	0	0	0
6/20/2024 22:39	56801	BENV_T1	4	8	4	0.45	0.86	0.41	-0.88	-0.32	2	1	-1	1200	600	-600
6/20/2024 22:39	61102	BERK_T5	0	0	0	0	0	0	-0.15	-0.12	2	2	0	1500	1500	0
6/20/2024 22:39	61701	ELIZ_T1	1	1	0	3.2	3.8	0.6	0.9	1.14	0	0	0	0	0	0
6/20/2024 22:40	47101	MARL_T1	53	39	-14	1.32	0.46	-0.86	-1.8	-1.84	1	1	0	600	600	0
6/20/2024 22:40	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:40	66902	SHIL_T2	25	180	155	0.17	0.26	0.09	-1.65	-0.72	0	0	0	0	0	0
6/20/2024 22:40	58006	WCAR_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
6/20/2024 22:40	66901	SHIL_T2	70	124	54	0.2	0.34	0.14	-0.42	-0.46	0	0	0	0	0	0
6/20/2024 22:40	61301	EARL_T1	0	0	0	0	0	0	-1.27	-1.27	2	2	0	1800	1800	0
6/20/2024 22:40	57401	SPAN_T1	0	0	0	0	0	0	-0.7	-0.74	1	1	0	600	600	0
6/20/2024 22:40	48902	FOSP_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
6/20/2024 22:40	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:40	65802	RTWN_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
6/20/2024 22:40	57505	LAWN_T3	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
6/20/2024 22:40	67901	WNHO_T2	0	0	0	0	0	0	-0.45	-0.44	1	1	0	900	900	0
6/20/2024 22:40	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
6/20/2024 22:40	40601	PIGR_T1	0	15	15	0	0.15	0.15	0	0	0	0	0	0	0	0
6/20/2024 22:40	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/20/2024 22:40	64201	KINZ_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
6/20/2024 22:40	62102	ELAN_T1	0	0	0	0	0	0	0.64	0.56	0	0	0	0	0	0
6/20/2024 22:40	11104	EGYP_T1	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
6/20/2024 22:40	66903	SHIL_T2	0	31	31	0	0.17	0.17	0	0	0	0	0	0	0	0
6/20/2024 22:40	10805	OHHI_T2	9	24	15	1.57	1.44	-0.13	0	0	1	1	0	600	600	0
6/20/2024 22:40	67602	WARW_T2	0	0	0	0	0	0	0.22	0.2	2	2	0	1500	1500	0
6/20/2024 22:40	64203	KINZ_T1	0	0	0	0	0	0	0.14	0.11	1	1	0	600	600	0
6/20/2024 22:40	12002	HATF_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:40	53903	HALI_T2	2	2	0	0.4	0.45	0.05	-0.07	-0.08	0	0	0	0	0	0
6/20/2024 22:40	64202	KINZ_T1	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
6/20/2024 22:40	24205	PROV_T3	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/20/2024 22:40	27302	PARR_T1	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
6/20/2024 22:40	51704	OBER_T1	0	0	0	0	0	0	-2.85	-2.87	2	2	0	2400	2400	0
6/20/2024 22:40	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:40	12001	HATF_T1	1	1	0	0.5	0	-0.5	0.3	0.35	2	2	0	1800	1800	0
6/20/2024 22:40	47104	MARL_T1	27	25	-2	1.06	0.65	-0.41	0	0	0	0	0	0	0	0
6/20/2024 22:40	10801	OHHI_T1	0	4	4	0	0	0	0	0	3	3	0	2100	2100	0
6/20/2024 22:40	64902	MILL_T2	0	0	0	0	0	0	-0.07	-0.09	1	1	0	900	900	0
6/20/2024 22:40	24204	PROV_T3	1	1	0	7.1	6.8	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:40	53501	EVIL_T2	1	1	0	0.6	0.8	0.2	-0.67	-0.69	2	2	0	1200	1200	0
6/20/2024 22:40	48602	POCA_T1	0	0	0	0	0	0	-0.31	-0.39	2	2	0	2400	2400	0
6/20/2024 22:40	61102	BERK_T5	0	0	0	0	0	0	-0.15	-0.12	2	2	0	1500	1500	0
6/20/2024 22:40	46504	LOHA_T1	2	2	0	0.85	0.55	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:40	64903	MILL_T2	4	1	-3	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/20/2024 22:40	53902	HALI_T2	1	1	0	4.8	4.4	-0.4	0	0	0	0	0	0	0	0
6/20/2024 22:40	42902	MIDD_T2	0	0	0	0	0	0	-0.8	-0.73	1	1	0	600	600	0
6/20/2024 22:40	60701	BREC_T1	0	0	0	0	0	0	-0.08	-0.13	1	1	0	600	600	0
6/20/2024 22:40	11102	EGYP_T1	1	6	5	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/20/2024 22:40	10602	BLGL_T2	2	2	0	3.75	7.4	3.65	0.73	0.7	0	0	0	0	0	0
6/20/2024 22:40	47401	PENS_T1	0	0	0	0	0	0	0.25	0.19	0	0	0	0	0	0
6/20/2024 22:40	29402	BELT_T1	1	1	0	7.4	7.9	0.5	0	0	0	0	0	0	0	0
6/20/2024 22:40	46506	LOHA_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
6/20/2024 22:40	51702	OBER_T1	2	2	0	1.6	1.8	0.2	-4.23	-4.21	3	3	0	1800	1800	0
6/20/2024 22:40	24201	PROV_T3	1	1	0	9.2	9	-0.2	-0.53	-0.56	1	1	0	1200	1200	0
6/20/2024 22:40	44201	POIN_T1	0	0	0	0	0	0	-5.3	-4.81	6	6	0	6300	6300	0
6/20/2024 22:41	64202	KINZ_T1	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
6/20/2024 22:41	65205	PRIN_T1	1	1	0	1.5	1.2	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:41	46004	BERW_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:41	64101	REFR_T1	0	0	0	0	0	0	0.51	0.86	0	0	0	0	0	0
6/20/2024 22:41	56501	ROCK_T2	0	0	0	0	0	0	-0.51	-0.44	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/20/2024 22:41	66504	SMAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:41	10705	CATA_T2	0	0	0	0	0	0	-1.3	-1.34	1	1	0	900	900	0
6/20/2024 22:41	46501	LOHA_T1	0	0	0	0	0	0	0.16	0.15	1	1	0	1200	1200	0
6/20/2024 22:41	12001	HATF_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/20/2024 22:41	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
6/20/2024 22:41	53903	HALI_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
6/20/2024 22:41	22903	HARW_T1	22	22	0	0.97	1.23	0.26	0	0	0	0	0	0	0	0
6/20/2024 22:41	64203	KINZ_T1	0	0	0	0	0	0	0.14	0.11	1	1	0	600	600	0
6/20/2024 22:41	27604	PIRI_T1	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
6/20/2024 22:41	62102	ELAN_T1	0	0	0	0	0	0	0.64	0.56	0	0	0	0	0	0
6/20/2024 22:41	51704	OBER_T1	0	0	0	0	0	0	-1.42	-1.44	1	1	0	1200	1200	0
6/20/2024 22:41	46504	LOHA_T1	2	2	0	0.85	0.55	-0.3	0	0	0	0	-1	0	0	0
6/20/2024 22:41	67605	WARW_T1	0	1	1	0	0	0	-0.92	-0.98	0	0	0	0	0	0
6/20/2024 22:41	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:41	47401	PENS_T1	0	0	0	0	0	0	0.25	0.19	0	0	0	0	0	0
6/20/2024 22:41	53501	EVIL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/20/2024 22:41	22905	HARW_T1	58	49	-9	1.53	1	-0.53	-0.22	-0.24	0	0	0	0	0	0
6/20/2024 22:41	56802	BENV_T2	0	1	1	0	0.1	0.1	-0.94	-0.97	0	0	0	0	0	0
6/20/2024 22:41	57401	SPAN_T1	0	0	0	0	0	0	-1.41	-1.47	2	2	0	1200	1200	0
6/20/2024 22:41	44201	POIN_T1	0	0	0	0	0	0	-1.77	-1.6	2	2	0	2100	2100	0
6/20/2024 22:41	46506	LOHA_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
6/20/2024 22:41	12006	HATF_T1	0	0	0	0	0	0	-0.36	-0.37	2	2	0	2400	2400	0
6/20/2024 22:41	12002	HATF_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:41	64201	KINZ_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
6/20/2024 22:41	67602	WARW_T2	0	0	0	0	0	0	0.22	0.2	2	2	0	1500	1500	0
6/20/2024 22:41	66505	SMAN_T2	0	0	0	0	0	0	-0.22	-0.25	3	3	0	2100	2100	0
6/20/2024 22:41	51702	OBER_T1	2	2	0	1.6	1.8	0.2	-2.82	-2.8	2	2	0	1200	1200	0
6/20/2024 22:41	42302	MOWK_T2	0	0	0	0	0	0	0.72	0.97	0	0	0	0	0	0
6/20/2024 22:41	42802	SELI_T1	0	0	0	0	0	0	-1.82	-1.87	0	0	0	0	0	0
6/20/2024 22:41	66702	STRA_T1	0	0	0	0	0	0	-0.22	-0.28	2	2	0	1500	1500	0
6/20/2024 22:41	42601	TUSC_T1	0	0	0	0	0	0	-1.12	0.06	2	2	0	1800	1800	0
6/20/2024 22:41	53502	EVIL_T2	0	0	0	0	0	0	0.38	0.36	1	1	0	600	600	0
6/20/2024 22:41	45502	DERR_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
6/20/2024 22:41	67402	WAKE_T2	0	0	0	0	0	0	0.03	0	1	1	0	600	600	0
6/20/2024 22:41	46002	BERW_T2	0	0	0	0	0	0	-1.03	-1.09	1	1	0	900	900	0
6/20/2024 22:41	65401	MARI_T1	8	4	-4	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/20/2024 22:41	56504	ROCK_T2	2	2	0	0.2	0.1	-0.1	-0.84	-0.88	0	0	0	0	0	0
6/20/2024 22:41	53902	HALI_T2	1	1	0	4.8	4.4	-0.4	-1.36	-1.42	0	0	0	0	0	0
6/20/2024 22:42	46504	LOHA_T1	2	2	0	0.85	0.55	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:42	64202	KINZ_T1	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
6/20/2024 22:42	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
6/20/2024 22:42	25501	MADI_T1	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
6/20/2024 22:42	56802	BENV_T2	0	1	1	0	0.1	0.1	-0.94	-0.97	0	0	0	0	0	0
6/20/2024 22:42	41302	FISH_T2	15	15	0	2.93	1.95	-0.98	0	0	0	0	0	0	0	0
6/20/2024 22:42	41901	REED_T1	5	9	4	0.2	0.26	0.06	-1.26	-1.25	1	1	0	900	900	0
6/20/2024 22:42	12701	MACU_T1	0	0	0	0	0	0	-0.8	-0.81	1	1	0	1200	1200	0
6/20/2024 22:42	20401	ASHF_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/20/2024 22:42	47104	MARL_T1	27	25	-2	1.06	0.65	-0.41	0	0	0	0	0	0	0	0
6/20/2024 22:42	52002	LING_T2	0	0	0	0	0	0	0.68	0.63	0	0	0	0	0	0
6/20/2024 22:42	65302	NBRI_T2	0	0	0	0	0	0	-0.55	-0.48	1	1	0	600	600	0
6/20/2024 22:42	56801	BENV_T1	4	8	4	0.45	0.86	0.41	-0.88	-0.32	2	1	-1	1200	600	-600
6/20/2024 22:42	41902	REED_T1	5	4	-1	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
6/20/2024 22:42	40601	PIGR_T1	0	15	15	0	0.15	0.15	0.01	0.01	0	0	0	0	0	0
6/20/2024 22:42	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/20/2024 22:42	48602	POCA_T1	0	0	0	0	0	0	-0.16	-0.19	1	1	0	1200	1200	0
6/20/2024 22:42	46506	LOHA_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
6/20/2024 22:42	67605	WARW_T1	0	1	1	0	0	0	-0.92	-0.98	0	0	0	0	0	0
6/20/2024 22:42	56803	BENV_T1	3	3	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:42	52402	GRPA_T2	1	3	2	1	0.1	-0.9	0	0	0	0	0	0	0	0
6/20/2024 22:42	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:42	52404	GRPA_T2	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
6/20/2024 22:42	46206	DANV_T2	5	5	0	1.02	1.3	0.28	0	0	0	0	0	0	0	0
6/20/2024 22:42	61102	BERK_T5	0	0	0	0	0	0	-0.15	-0.12	2	2	0	1500	1500	0
6/20/2024 22:42	64201	KINZ_T1	1	1	0	0.2	0.9	0.7	-0.32	-0.37	3	3	0	1500	1500	0
6/20/2024 22:42	20402	ASHF_T2	4	8	4	0.13	0.35	0.22	0	0	0	0	0	0	0	0
6/20/2024 22:42	12002	HATF_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:42	20403	ASHF_T2	1	1	0	0.5	0	-0.5	0.85	0.8	0	0	0	0	0	0
6/20/2024 22:42	12001	HATF_T1	1	1	0	0.5	0	-0.5	0.3	0.35	2	2	0	1800	1800	0
6/20/2024 22:42	60801	BUCK_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
6/20/2024 22:42	13303	ORVI_T1	0	0	0	0	0	0	-1.2	-1.28	0	0	0	0	0	0
6/20/2024 22:42	44201	POIN_T1	0	0	0	0	0	0	-1.77	-1.6	2	2	0	2100	2100	0
6/20/2024 22:42	66504	SMAN_T2	0	2	2	0	0	0	-0.6	-0.68	1	1	0	1200	1200	0
6/20/2024 22:42	13503	MCMI_T2	7	53	46	0.11	0.31	0.2	-0.6	-0.62	0	0	0	0	0	0
6/20/2024 22:42	51905	CORA_T1	0	0	0	0	0	0	-1.02	-1.06	0	0	0	0	0	0
6/20/2024 22:42	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/20/2024 22:42	41304	FISH_T2	1	1	0	0	0	0	-0.44	-0.4	0	0	0	0	0	0
6/20/2024 22:42	11405	FARM_T1	0	0	0	0	0	0	0.22	0.17	1	1	0	1200	1200	0
6/20/2024 22:42	64903	MILL_T2	4	1	-3	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/20/2024 22:42	64902	MILL_T2	0	0	0	0	0	0	-0.07	-0.09	1	1	0	900	900	0
6/20/2024 22:42	25503	MADI_T1	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
6/20/2024 22:42	60803	BUCK_T1	15	6	-9	0.4	0.2	-0.2	-1.85	-1.88	2	2	0	1200	1200	0
6/20/2024 22:42	46203	DANV_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
6/20/2024 22:42	10705	CATA_T2	0	0	0	0	0	0	-1.3	-1.34	1	1	0	900	900	0
6/20/2024 22:42	56504	ROCK_T2	2	2	0	0.2	0.1	-0.1	-0.84	-0.88	0	0	0	0	0	0
6/20/2024 22:42	47101	MARL_T1	53	39	-14	1.32	0.46	-0.86	-3.6	-3.67	2	2	0	1200	1200	0
6/20/2024 22:43	56801	BENV_T1	4	8	4	0.45	0.86	0.41	-1.76	-0.64	4	2	-2	2400	1200	-1200
6/20/2024 22:43	43301	WATS_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/20/2024 22:43	66505	SMAN_T2	0	0	0	0	0	0	-0.45	-0.5	6	6	0	4200	4200	0
6/20/2024 22:43	43304	WATS_T2	11	12	1	0.48	0.1	-0.38	-0.61	-0.63	0	0	0	0	0	0
6/20/2024 22:43	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/20/2024 22:43	62102	ELAN_T1	0	0	0	0	0	0	0.64	0.56	0	0	0	0	0	0
6/20/2024 22:43	56504	ROCK_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/20/2024 22:43	47101	MARL_T1	53	39	-14	1.32	0.46	-0.86	-3.6	-3.67	2	2	0	1200	1200	0
6/20/2024 22:43	60803	BUCK_T1	15	6	-9	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/20/2024 22:43	20402	ASHF_T2	4	8	4	0.13	0.35	0.22	0	0	0	0	0	0	0	0
6/20/2024 22:43	60801	BUCK_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
6/20/2024 22:43	52404	GRPA_T2	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
6/20/2024 22:43	47401	PENS_T1	0	0	0	0	0	0	0.25	0.19	0	0	0	0	0	0
6/20/2024 22:43	67605	WARW_T1	0	1	1	0	0	0	-0.92	-0.98	0	0	0	0	0	0
6/20/2024 22:43	56501	ROCK_T2	0	0	0	0	0	0	-1.52	-1.32	0	0	0	0	0	0
6/20/2024 22:43	64101	REFR_T1	0	0	0	0	0	0	0.26	0.43	0	0	0	0	0	0
6/20/2024 22:43	66703	STRA_T1	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
6/20/2024 22:43	66702	STRA_T1	0	0	0	0	0	0	-0.22	-0.28	2	2	0	1500	1500	0
6/20/2024 22:43	50701	SMEC_T1	0	0	0	0	0	0	0.02	-0.06	0	0	0	0	0	0
6/20/2024 22:43	52004	LING_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
6/20/2024 22:43	43201	MVIL_T2	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
6/20/2024 22:43	20401	ASHF_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/20/2024 22:43	61703	ELIZ_T1	0	0	0	0	0	0	-2.33	-2.56	2	2	0	2100	2100	0
6/20/2024 22:43	56802	BENV_T2	0	1	1	0	0.1	0.1	-0.94	-0.97	0	0	0	0	0	0
6/20/2024 22:43	66502	SMAN_T2	0	0	0	0	0	0	0.04	-0.01	0	0	0	0	0	0
6/20/2024 22:43	57401	SPAN_T1	0	0	0	0	0	0	-1.41	-1.47	2	2	0	1200	1200	0
6/20/2024 22:43	56803	BENV_T1	3	3	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:43	54206	PENN_T2	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
6/20/2024 22:43	46203	DANV_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
6/20/2024 22:43	42802	SELI_T1	0	0	0	0	0	0	-0.91	-0.94	0	0	0	0	0	0
6/20/2024 22:43	64801	MONE_T2	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
6/20/2024 22:43	52402	GRPA_T2	1	3	2	1	0.1	-0.9	0	0	0	0	0	0	0	0
6/20/2024 22:43	43202	MVIL_T2	35	75	40	0.23	0.66	0.43	0	0	0	0	0	0	0	0
6/20/2024 22:43	15001	BLMO_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/20/2024 22:43	66504	SMAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:43	10801	CHHI_T1	0	4	4	0	0	0	0	0	3	3	0	2100	2100	0
6/20/2024 22:43	46206	DANV_T2	5	5	0	1.02	1.3	0.28	2.25	2.25	2	2	0	2100	2100	0
6/20/2024 22:43	61701	ELIZ_T1	1	1	0	3.2	3.8	0.6	0	0	0	0	0	0	0	0
6/20/2024 22:43	64202	KINZ_T1	2	2	0	0.35	0.25	-0.1	1.19	1.23	0	0	0	0	0	0
6/20/2024 22:43	47104	MARL_T1	27	25	-2	1.06	0.65	-0.41	0	0	0	0	0	0	0	0
6/20/2024 22:43	20403	ASHF_T2	1	1	0	0.5	0	-0.5	0.85	0.8	0	0	0	0	0	0
6/20/2024 22:43	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
6/20/2024 22:43	64201	KINZ_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
6/20/2024 22:43	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/20/2024 22:43	10705	CATA_T2	0	0	0	0	0	0	-1.3	-1.34	1	1	0	900	900	0
6/20/2024 22:44	46101	MACI_T2	0	4	4	0	0.1	0.1	-0.44	-0.46	1	1	0	1200	1200	0
6/20/2024 22:44	57502	LAWN_T3	0	0	0	0	0	0	-1.27	-1.3	0	0	0	0	0	0
6/20/2024 22:44	67602	WARW_T2	0	0	0	0	0	0	0.22	0.2	2	2	0	1500	1500	0
6/20/2024 22:44	55001	NEWP_T1	0	0	0	0	0	0	-0.42	-0.52	0	0	0	0	0	0
6/20/2024 22:44	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/20/2024 22:44	10805	CHHI_T2	9	24	15	1.57	1.44	-0.13	0	0	1	1	0	600	600	0
6/20/2024 22:44	52404	GRPA_T2	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
6/20/2024 22:44	41304	FISH_T2	1	1	0	0	0	0	-0.44	-0.4	0	0	0	0	0	0
6/20/2024 22:44	49803	UNIV_T1	29	7	-22	0.22	0.16	-0.06	-0.56	-0.59	0	0	0	0	0	0
6/20/2024 22:44	64201	KINZ_T1	1	1	0	0.2	0.9	0.7	-0.32	-0.37	3	3	0	1500	1500	0
6/20/2024 22:44	61302	EARL_T1	0	0	0	0	0	0	0.29	0.37	2	2	0	1800	1800	0
6/20/2024 22:44	43301	WATS_T2	1	1	0	0.3	0.5	0.2	-0.13	-0.15	1	1	0	900	900	0
6/20/2024 22:44	53601	DALM_T2	1	0	-1	0.1	0	-0.1	0.09	0.06	1	1	0	600	600	0
6/20/2024 22:44	60801	BUCK_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
6/20/2024 22:44	12002	HATF_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:44	41302	FISH_T2	15	15	0	2.93	1.95	-0.98	0	0	0	0	0	0	0	0
6/20/2024 22:44	43304	WATS_T2	11	12	1	0.48	0.1	-0.38	0	0	0	0	0	0	0	0
6/20/2024 22:44	54203	PENN_T1	5	5	0	0.88	0.78	-0.1	1.47	1.41	0	0	0	0	0	0
6/20/2024 22:44	21203	ECAR_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
6/20/2024 22:44	13302	ORVI_T2	0	0	0	0	0	0	-0.74	-0.76	0	0	0	0	0	0
6/20/2024 22:44	44801	EDAN_T2	2	1	-1	0.75	1	0.25	0.83	0.79	0	0	0	0	0	0
6/20/2024 22:44	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/20/2024 22:44	47104	MARL_T1	27	25	-2	1.06	0.65	-0.41	0	0	0	0	0	0	0	0
6/20/2024 22:44	10801	CHHI_T1	0	4	4	0	0	0	0	0	3	3	0	2100	2100	0
6/20/2024 22:44	61801	EELI_T2	0	0	0	0	0	0	0.2	0.37	0	0	0	0	0	0
6/20/2024 22:44	55002	NEWP_T1	1	4	3	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/20/2024 22:44	64202	KINZ_T1	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
6/20/2024 22:44	61703	ELIZ_T1	0	0	0	0	0	0	-2.33	-2.56	2	2	0	2100	2100	0
6/20/2024 22:44	64904	MILL_T1	0	0	0	0	0	0	0.41	0.29	0	0	0	0	0	0
6/20/2024 22:44	12001	HATF_T1	1	1	0	0.5	0	-0.5	0.3	0.35	2	2	0	1800	1800	0
6/20/2024 22:44	57501	LAWN_T3	0	0	0	0	0	0	-1.21	-1.23	0	0	0	0	0	0
6/20/2024 22:44	11804	FRAN_T1	58	36	-22	0.66	0.5	-0.16	-0.38	0.51	1	0	-1	1200	0	-1200
6/20/2024 22:44	58003	WCAR_T1	1	1	0	1.1	1.1	0	0.39	0.38	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/20/2024 22:44	49804	UNIV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/20/2024 22:44	58001	WCAR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/20/2024 22:44	10702	CATA_T2	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
6/20/2024 22:44	46203	DANV_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
6/20/2024 22:44	62105	ELAN_T1	0	0	0	0	0	0	1.15	1.11	0	0	0	0	0	0
6/20/2024 22:44	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
6/20/2024 22:44	48301	ORWI_T1	2	2	0	4.55	5.1	0.55	0.41	0.39	0	0	0	0	0	0
6/20/2024 22:44	61701	ELIZ_T1	1	1	0	3.2	3.8	0.6	0	0	0	0	0	0	0	0
6/20/2024 22:44	57505	LAWN_T3	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
6/20/2024 22:44	65604	QVIL_T2	0	0	0	0	0	0	0.67	0.64	0	0	0	0	0	0
6/20/2024 22:44	23401	HONE_T2	12	11	-1	0.65	0.26	-0.39	0.71	0.66	0	0	0	0	0	0
6/20/2024 22:44	61303	EARL_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
6/20/2024 22:44	65001	NEFF_T2	0	0	0	0	0	0	-0.5	-0.62	3	3	0	3600	3600	0
6/20/2024 22:44	46206	DANV_T2	5	5	0	1.02	1.3	0.28	0	0	0	0	0	0	0	0
6/20/2024 22:44	52402	GRPA_T2	1	3	2	1	0.1	-0.9	-0.55	-0.55	0	0	0	0	0	0
6/20/2024 22:44	47401	PENS_T1	0	0	0	0	0	0	0.25	0.19	0	0	0	0	0	0
6/20/2024 22:44	60803	BUCK_T1	15	6	-9	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/20/2024 22:44	47101	MARL_T1	53	39	-14	1.32	0.46	-0.86	-1.8	-1.84	1	1	0	600	600	0
6/20/2024 22:44	54201	PENN_T1	5	6	1	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
6/20/2024 22:44	20601	GRWO_T2	4	1	-3	0.6	0.8	0.2	0.14	0.11	0	0	0	0	0	0
6/20/2024 22:44	64101	REFR_T1	0	0	0	0	0	0	0.51	0.86	0	0	0	0	0	0
6/20/2024 22:45	42903	MIDD_T2	0	0	0	0	0	0	-1.25	-1.26	1	1	0	1200	1200	0
6/20/2024 22:45	20601	GRWO_T2	1	1	0	1.9	0.7	-1.2	0.14	0.11	0	0	0	0	0	0
6/20/2024 22:45	20603	GRWO_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/20/2024 22:45	43304	WATS_T2	12	1	-11	0.33	0.1	-0.23	-0.61	-0.63	0	0	0	0	0	0
6/20/2024 22:45	57501	LAWN_T3	0	0	0	0	0	0	-1.21	-1.23	0	0	0	0	0	0
6/20/2024 22:45	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:45	55101	WERT_T1	0	0	0	0	0	0	-2.43	-2.56	4	4	0	3300	3300	0
6/20/2024 22:45	10702	CATA_T2	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
6/20/2024 22:45	10805	CHHI_T2	20	24	4	1.45	1.7	0.25	0	0	1	1	0	600	600	0
6/20/2024 22:45	42901	MIDD_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:45	44201	POIN_T1	0	0	0	0	0	0	-1.77	-1.6	2	2	0	2100	2100	0
6/20/2024 22:45	41302	FISH_T2	15	15	0	2.87	1.66	-1.21	0	0	0	0	0	0	0	0
6/20/2024 22:45	41304	FISH_T2	1	1	0	0	0	0	-0.44	-0.4	0	0	0	0	0	0
6/20/2024 22:45	64101	REFR_T1	0	0	0	0	0	0	0.51	0.86	0	0	0	0	0	0
6/20/2024 22:45	57502	LAWN_T3	0	0	0	0	0	0	-1.27	-1.3	0	0	0	0	0	0
6/20/2024 22:45	43301	WATS_T2	0	1	1	0	0.5	0.5	-0.13	-0.15	1	1	0	900	900	0
6/20/2024 22:45	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:45	62102	ELAN_T1	0	0	0	0	0	0	0.64	0.56	0	0	0	0	0	0
6/20/2024 22:45	66702	STRA_T1	0	0	0	0	0	0	-0.22	-0.28	2	2	0	1500	1500	0
6/20/2024 22:45	61803	EELI_T2	0	0	0	0	0	0	0.35	0.32	1	1	0	600	600	0
6/20/2024 22:45	57506	LAWN_T3	0	0	0	0	0	0	2.77	2.64	2	2	0	1200	1200	0
6/20/2024 22:45	53501	EVIL_T2	1	1	0	0.8	0.8	0	-1.33	-1.37	4	4	0	2400	2400	0
6/20/2024 22:45	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:45	61303	EARL_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
6/20/2024 22:45	52002	LING_T2	0	0	0	0	0	0	0.68	0.63	0	0	0	0	0	0
6/20/2024 22:45	40101	HUNT_T2	0	0	0	0	0	0	-1.19	-1.23	0	0	0	0	0	0
6/20/2024 22:46	45302	WBER_T2	0	0	0	0	0	0	1.57	1.48	0	0	0	0	0	0
6/20/2024 22:46	67804	WLAN_T1	3	6	3	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/20/2024 22:46	11104	EGYP_T1	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
6/20/2024 22:46	65004	NEFF_T2	0	0	0	0	0	0	-0.49	-0.51	1	1	0	600	600	0
6/20/2024 22:46	56504	ROCK_T2	2	1	-1	0.3	0	-0.3	-1.68	-1.76	0	0	0	0	0	0
6/20/2024 22:46	53502	EVIL_T2	0	1	1	0	0	0	0.38	0.36	1	1	0	600	600	0
6/20/2024 22:46	46206	DANV_T2	5	10	5	0.48	1.3	0.82	0	0	0	0	0	0	0	0
6/20/2024 22:46	11102	EGYP_T1	6	1	-5	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/20/2024 22:46	44301	BEAV_T2	0	1	1	0	0	0	0.52	0.47	1	1	0	600	600	0
6/20/2024 22:46	67801	WLAN_T1	1	0	-1	0.2	0	-0.2	0.24	0.22	0	0	0	0	0	0
6/20/2024 22:46	53902	HALI_T2	1	1	0	4.4	4.4	0	0	0	0	0	0	0	0	0
6/20/2024 22:46	46504	LOHA_T1	2	2	0	0.4	1	0.6	0	0	0	0	0	0	0	0
6/20/2024 22:46	55101	WERT_T1	0	0	0	0	0	0	-2.43	-2.56	4	4	0	3300	3300	0
6/20/2024 22:46	56801	BENV_T1	8	8	0	0.86	0.6	-0.26	-1.76	-0.64	4	2	-2	2400	1200	-1200
6/20/2024 22:46	43301	WATS_T2	0	1	1	0	0.5	0.5	-0.13	-0.15	1	1	0	900	900	0
6/20/2024 22:46	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:46	56803	BENV_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/20/2024 22:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:46	43304	WATS_T2	12	1	-11	0.33	0.1	-0.23	-0.61	-0.63	0	0	0	0	0	0
6/20/2024 22:46	46506	LOHA_T1	0	1	1	0	0.9	0.9	-0.09	-0.11	0	0	0	0	0	0
6/20/2024 22:46	46203	DANV_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
6/20/2024 22:46	47101	MARL_T1	37	30	-7	0.93	0.24	-0.69	-1.8	-1.84	1	1	0	600	600	0
6/20/2024 22:46	53501	EVIL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/20/2024 22:46	43202	MVIL_T2	62	75	13	0.65	0.65	0	-0.48	-0.49	0	0	0	0	0	0
6/20/2024 22:46	57501	LAWN_T3	0	0	0	0	0	0	-1.21	-1.23	0	0	0	0	0	0
6/20/2024 22:46	51905	COPA_T1	0	0	0	0	0	0	-1.02	-1.06	0	0	0	0	0	0
6/20/2024 22:46	66702	STRA_T1	0	0	0	0	0	0	-0.22	-0.28	2	2	0	1500	1500	0
6/20/2024 22:46	47104	MARL_T1	25	21	-4	0.79	0.39	-0.4	0	0	0	0	0	0	0	0
6/20/2024 22:46	53903	HALI_T2	1	2	1	0.2	0.45	0.25	-0.07	-0.08	0	0	0	0	0	0
6/20/2024 22:46	57506	LAWN_T3	0	0	0	0	0	0	1.38	1.32	1	1	0	600	600	0
6/20/2024 22:47	40101	HUNT_T2	0	0	0	0	0	0	-1.19	-1.23	0	0	0	0	0	0
6/20/2024 22:47	60103	COCA_T2	0	0	0	0	0	0	-1.42	-0.37	3	2	-1	3300	2100	-1200
6/20/2024 22:47	44301	BEAV_T2	0	1	1	0	0	0	0.52	0.47	1	1	0	600	600	0
6/20/2024 22:47	46206	DANV_T2	5	10	5	0.48	1.3	0.82	0	0	0	0	0	0	0	0
6/20/2024 22:47	66703	STRA_T1	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
6/20/2024 22:47	57401	SPAN_T1	0	0	0	0	0	0	-0.7	-0.74	1	1	0	600	600	0
6/20/2024 22:47	41902	REED_T1	2	3	1	0.2	0	-0.2	0.52	0.5	1	1	0	900	900	0
6/20/2024 22:47	60501	NMAN_T2	3	3	0	4.47	4.97	0.5	0	0	0	0	0	0	0	0
6/20/2024 22:47	14403	SSLA_T1	0	0	0	0	0	0	1.2	1.18	0	0	0	0	0	0
6/20/2024 22:47	14404	SSLA_T1	1	1	0	3.2	3.5	0.3	0	0	0	0	0	0	0	0
6/20/2024 22:47	43301	WATS_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/20/2024 22:47	46203	DANV_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
6/20/2024 22:47	41901	REED_T1	9	6	-3	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
6/20/2024 22:47	67602	WARW_T2	0	0	0	0	0	0	0.22	0.2	2	2	0	1500	1500	0
6/20/2024 22:47	42902	MIDD_T2	0	0	0	0	0	0	-1.59	-1.45	2	2	0	1200	1200	0
6/20/2024 22:47	43304	WATS_T2	12	1	-11	0.33	0.1	-0.23	-1.21	-1.26	0	0	0	0	0	0
6/20/2024 22:47	42901	MIDD_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:47	40901	JESH_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:47	16605	PONO_T1	0	0	0	0	0	0	-1.03	-1.09	2	2	0	2400	2400	0
6/20/2024 22:47	61301	EARL_T1	0	0	0	0	0	0	-1.27	-1.27	2	2	0	1800	1800	0
6/20/2024 22:47	55101	WERT_T1	0	0	0	0	0	0	-2.43	-2.56	4	4	0	3300	3300	0
6/20/2024 22:47	40902	JESH_T1	0	0	0	0	0	0	-1.21	-1.25	2	2	0	1200	1200	0
6/20/2024 22:47	51905	COPA_T1	0	0	0	0	0	0	-1.02	-1.06	0	0	0	0	0	0
6/20/2024 22:47	56501	ROCK_T2	0	0	0	0	0	0	-0.51	-0.44	0	0	0	0	0	0
6/20/2024 22:47	67204	TEHI_T2	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
6/20/2024 22:47	56504	ROCK_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:47	44801	EDAN_T2	1	4	3	1.1	1	-0.1	0.83	0.79	0	0	0	0	0	0
6/20/2024 22:47	60502	NMAN_T2	0	0	0	0	0	0	0.38	0.31	0	0	0	0	0	0
6/20/2024 22:47	57502	LAWN_T3	0	0	0	0	0	0	-1.27	-1.3	0	0	0	0	0	0
6/20/2024 22:48	61701	ELIZ_T1	1	1	0	3.7	3.8	0.1	0	0	0	0	0	0	0	0
6/20/2024 22:48	52402	GRPA_T2	1	3	2	0.5	0.15	-0.35	-0.55	-0.55	0	0	0	0	0	0
6/20/2024 22:48	47104	MARL_T1	25	21	-4	0.79	0.39	-0.4	0	0	0	0	0	0	0	0
6/20/2024 22:48	53902	HALI_T2	1	1	0	4.4	4.4	0	-0.68	-0.71	0	0	0	0	0	0
6/20/2024 22:48	20403	ASHF_T2	1	0	-1	0.5	0	-0.5	0.85	0.8	0	0	0	0	0	0
6/20/2024 22:48	53903	HALI_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
6/20/2024 22:48	56803	BENV_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/20/2024 22:48	45802	HEGI_T2	20	33	13	0.57	0.58	0.01	-0.1	-0.07	2	2	0	1200	1200	0
6/20/2024 22:48	20402	ASHF_T2	8	6	-2	0.68	0	-0.68	0	0	0	0	0	0	0	0
6/20/2024 22:48	52401	GRPA_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/20/2024 22:48	62102	ELAN_T1	0	0	0	0	0	0	0.64	0.56	0	0	0	0	0	0
6/20/2024 22:48	64903	MILL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/20/2024 22:48	56802	BENV_T2	0	1	1	0	0.1	0.1	-0.94	-0.97	0	0	0	0	0	0
6/20/2024 22:48	64902	MILL_T2	0	0	0	0	0	0	-0.07	-0.09	1	1	0	900	900	0
6/20/2024 22:48	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:48	13105	NHAM_T2	5	4	-1	1.5	0.8	-0.7	-0.88	-0.92	1	1	0	1200	1200	0
6/20/2024 22:48	40601	PIGR_T1	14	6	-8	0.16	0.12	-0.04	0	0	0	0	0	0	0	0
6/20/2024 22:48	56801	BENV_T1	8	8	0	0.86	0.6	-0.26	-1.76	-0.64	4	2	-2	2400	1200	-1200
6/20/2024 22:48	64101	REFR_T1	0	0	0	0	0	0	0.51	0.86	0	0	0	0	0	0
6/20/2024 22:48	12701	MACU_T1	0	0	0	0	0	0	-0.8	-0.81	1	1	0	1200	1200	0
6/20/2024 22:48	61703	ELIZ_T1	0	0	0	0	0	0	-2.33	-2.56	2	2	0	2100	2100	0
6/20/2024 22:48	47101	MARL_T1	37	30	-7	0.93	0.24	-0.69	-7.19	-7.34	4	4	0	2400	2400	0
6/20/2024 22:48	67602	WARW_T2	0	0	0	0	0	0	0.22	0.2	2	2	0	1500	1500	0
6/20/2024 22:48	10702	CATA_T2	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
6/20/2024 22:48	57505	LAWN_T3	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
6/20/2024 22:48	47401	PENS_T1	0	0	0	0	0	0	0.25	0.19	0	0	0	0	0	0
6/20/2024 22:48	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:49	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:49	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:49	53501	EVIL_T2	1	1	0	0.8	0.8	0	-0.67	-0.69	2	2	0	1200	1200	0
6/20/2024 22:49	44301	BEAV_T2	0	1	1	0	0	0	0.52	0.47	1	1	0	600	600	0
6/20/2024 22:49	44801	EDAN_T2	1	4	3	1.1	1	-0.1	0.83	0.79	0	0	0	0	0	0
6/20/2024 22:49	22402	MORG_T2	4	2	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/20/2024 22:49	66703	STRA_T1	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
6/20/2024 22:49	65302	NBRI_T2	0	0	0	0	0	0	-0.55	-0.48	1	1	0	600	600	0
6/20/2024 22:49	65001	NEFF_T2	0	0	0	0	0	0	-0.17	-0.21	1	1	0	1200	1200	0
6/20/2024 22:49	43202	MVIL_T2	62	75	13	0.65	0.65	0	-0.48	-0.49	0	0	0	0	0	0
6/20/2024 22:49	47101	MARL_T1	37	30	-7	0.93	0.24	-0.69	-1.8	-1.84	1	1	0	600	600	0
6/20/2024 22:49	47401	PENS_T1	0	0	0	0	0	0	0.25	0.19	0	0	0	0	0	0
6/20/2024 22:49	47104	MARL_T1	25	21	-4	0.79	0.39	-0.4	0	0	0	0	0	0	0	0
6/20/2024 22:49	42302	MOWR_T2	0	0	0	0	0	0	0.72	0.97	0	0	0	0	0	0
6/20/2024 22:49	22405	MORG_T2	5	5	0	0.9	0.4	-0.5	-0.81	-0.83	0	0	0	0	0	0
6/20/2024 22:49	52402	GRPA_T2	1	3	2	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
6/20/2024 22:49	23001	SAJO_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
6/20/2024 22:49	57501	LAWN_T3	0	0	0	0	0	0	-2.41	-2.47	0	0	0	0	0	0
6/20/2024 22:49	52403	GRPA_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
6/20/2024 22:49	54701	NEBL_T1	1	1	0	0.5	1.2	0.7	0	0	1	1	0	600	600	0
6/20/2024 22:49	67605	WARW_T1	0	1	1	0	0	0	-0.92	-0.98	0	0	0	0	0	0
6/20/2024 22:49	57502	LAWN_T3	0	0	0	0	0	0	-1.27	-1.3	0	0	0	0	0	0
6/20/2024 22:49	64101	REFR_T1	0	0	0	0	0	0	0.26	0.43	0	0	0	0	0	0
6/20/2024 22:49	52401	GRPA_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/20/2024 22:49	67204	TEHI_T2	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
6/20/2024 22:50	46203	DANV_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
6/20/2024 22:50	57502	LAWN_T3	0	0	0	0	0	0	-1.27	-1.3	0	0	0	0	0	0
6/20/2024 22:50	58401	MORO_T1	0	0	0	0	0	0	-1.06	-1.1	2	2	0	1200	1200	0
6/20/2024 22:50	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:50	65004	NEFF_T2	0	0	0	0	0	0	-0.49	-0.51	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/20/2024 22:50	58003	WCAR_T1	1	1	0	1	1.1	0.1	0.39	0.38	1	1	0	600	600	0
6/20/2024 22:50	43304	WATS_T2	12	1	-11	0.33	0.1	-0.23	0	0	0	0	0	0	0	0
6/20/2024 22:50	67605	WARW_T1	0	1	1	0	0	0	-0.92	-0.98	0	0	0	0	0	0
6/20/2024 22:50	56801	BENV_T1	8	8	0	0.86	0.6	-0.26	-0.88	-0.32	2	1	-1	1200	600	-600
6/20/2024 22:50	57505	LAWN_T3	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
6/20/2024 22:50	56802	BENV_T2	0	1	1	0	0.1	0.1	-0.94	-0.97	0	0	0	0	0	0
6/20/2024 22:50	45501	DERR_T2	0	0	0	0	0	0	0.17	0.16	2	2	0	1800	1800	0
6/20/2024 22:50	43301	WATS_T2	0	1	1	0	0.5	0.5	-0.13	-0.15	1	1	0	900	900	0
6/20/2024 22:50	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:50	56504	ROCK_T2	2	1	-1	0.3	0	-0.3	-0.84	-0.88	0	0	0	0	0	0
6/20/2024 22:50	46901	MNTG_T2	0	0	0	0	0	0	0.55	0.54	1	1	0	1200	1200	0
6/20/2024 22:50	58001	WCAR_T1	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
6/20/2024 22:50	40601	PIGR_T1	14	6	-8	0.16	0.12	-0.04	0	0	0	0	0	0	0	0
6/20/2024 22:50	53902	HALI_T2	1	1	0	4.4	4.4	0	0	0	0	0	0	0	0	0
6/20/2024 22:50	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 22:50	53903	HALI_T2	1	2	1	0.2	0.45	0.25	-0.07	-0.08	0	0	0	0	0	0
6/20/2024 22:50	41901	REED_T1	9	6	-3	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
6/20/2024 22:50	51604	DUKE_T2	0	0	0	0	0	0	-0.84	-0.87	1	1	0	900	900	0
6/20/2024 22:50	41902	REED_T1	2	3	1	0.2	0	-0.2	1.04	0.99	2	2	0	1800	1800	0
6/20/2024 22:50	46206	DANV_T2	5	10	5	0.48	1.3	0.82	0	0	0	0	0	0	0	0
6/20/2024 22:50	64101	REFR_T1	0	0	0	0	0	0	0.26	0.43	0	0	0	0	0	0
6/20/2024 22:50	56803	BENV_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/20/2024 22:51	64202	KINZ_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/20/2024 22:51	67201	TEHI_T1	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
6/20/2024 22:51	44301	BEAV_T2	0	1	1	0	0	0	0.47	0.29	1	1	0	600	600	0
6/20/2024 22:51	53903	HALI_T2	1	2	1	0.2	0.45	0.25	-0.07	-0.08	0	0	0	0	0	0
6/20/2024 22:51	57401	SPAN_T1	0	0	0	0	0	0	-1.41	-1.47	2	2	0	1200	1200	0
6/20/2024 22:51	56803	BENV_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/20/2024 22:51	55101	WERT_T1	0	0	0	0	0	0	-2.43	-2.56	4	4	0	3300	3300	0
6/20/2024 22:51	64101	REFR_T1	0	0	0	0	0	0	0.43	0.63	0	0	0	0	0	0
6/20/2024 22:51	64203	KINZ_T1	0	0	0	0	0	0	0.14	0.11	1	1	0	600	600	0
6/20/2024 22:51	44201	POIN_T1	0	0	0	0	0	0	-1.6	-1.71	2	2	0	2100	2100	0
6/20/2024 22:51	67605	WARW_T1	0	1	1	0	0	0	-0.98	-0.9	0	0	0	0	0	0
6/20/2024 22:51	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
6/20/2024 22:51	53902	HALI_T2	1	1	0	4.4	4.4	0	0	0	0	0	0	0	0	0
6/20/2024 22:51	67602	WARW_T2	0	0	0	0	0	0	0.2	0.17	2	2	0	1500	1500	0
6/20/2024 22:51	56801	BENV_T1	8	8	0	0.86	0.6	-0.26	-1.76	-0.64	4	2	-2	2400	1200	-1200
6/20/2024 22:51	64201	KINZ_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
6/20/2024 22:51	45501	DERR_T2	0	0	0	0	0	0	0.16	0.16	2	2	0	1800	1800	0
6/20/2024 22:52	57505	LAWN_T3	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
6/20/2024 22:52	45402	WBLO_T2	45	55	10	0.28	0.31	0.03	-1.12	-1.15	1	1	0	900	900	0
6/20/2024 22:52	43304	WATS_T2	12	1	-11	0.33	0.1	-0.23	-0.63	-0.65	0	0	0	0	0	0
6/20/2024 22:52	55101	WERT_T1	0	0	0	0	0	0	-5.13	-3.27	8	6	-2	6600	4800	-1800
6/20/2024 22:52	52002	LING_T2	0	0	0	0	0	0	0.63	0.55	0	0	0	0	0	0
6/20/2024 22:52	59003	MIFF_T1	1	1	0	0.2	0.2	0	-0.19	-0.17	0	0	0	0	0	0
6/20/2024 22:52	43301	WATS_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/20/2024 22:52	59002	MIFF_T1	1	5	4	0.2	0.22	0.02	0	0	0	0	0	0	0	0
6/20/2024 22:52	54701	NEBL_T1	1	1	0	0.5	1.2	0.7	0	0	1	1	0	600	600	0
6/20/2024 22:53	43304	WATS_T2	12	1	-11	0.33	0.1	-0.23	0	0	0	0	0	0	0	0
6/20/2024 22:53	56504	ROCK_T2	2	1	-1	0.3	0	-0.3	-0.88	-0.92	0	0	0	0	0	0
6/20/2024 22:53	55003	NEWP_T2	0	0	0	0	0	0	-1.01	-1.01	1	1	0	600	600	0
6/20/2024 22:53	43301	WATS_T2	0	1	1	0	0.5	0.5	-0.15	-0.18	1	1	0	900	900	0
6/20/2024 22:53	67602	WARW_T2	0	0	0	0	0	0	0.2	0.17	2	2	0	1500	1500	0
6/20/2024 22:53	56501	ROCK_T2	0	0	0	0	0	0	-0.44	-0.66	0	0	0	0	0	0
6/20/2024 22:53	56803	BENV_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/20/2024 22:53	56801	BENV_T1	8	8	0	0.86	0.6	-0.26	-0.32	-0.34	1	1	0	600	600	0
6/20/2024 22:53	66302	MCGO_T2	0	0	0	0	0	0	-0.85	-0.88	1	1	0	600	600	0
6/20/2024 22:53	62102	ELAN_T1	0	0	0	0	0	0	0.56	0.48	0	0	0	0	0	0
6/20/2024 22:54	56803	BENV_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/20/2024 22:54	42902	MIDD_T2	0	0	0	0	0	0	-0.73	-0.74	1	1	0	600	600	0
6/20/2024 22:54	44301	BEAV_T2	0	1	1	0	0	0	0.47	0.29	1	1	0	600	600	0
6/20/2024 22:54	56801	BENV_T1	8	8	0	0.86	0.6	-0.26	-0.64	-0.69	2	2	0	1200	1200	0
6/20/2024 22:54	42901	MIDD_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/20/2024 22:55	65003	NEFF_T2	0	0	0	0	0	0	-1.53	-1.56	2	2	0	1800	1800	0
6/20/2024 22:55	52002	LING_T2	0	0	0	0	0	0	0.63	0.55	0	0	0	0	0	0
6/20/2024 22:55	45602	WOOL_T1	11	22	11	0.25	0.34	0.09	0.62	0.59	0	0	0	0	0	0
6/20/2024 22:55	40101	HUNT_T2	0	0	0	0	0	0	-1.23	-1.26	0	0	0	0	0	0
6/20/2024 22:56	47104	MARL_T1	25	21	-4	0.79	0.39	-0.4	0	0	0	0	0	0	0	0
6/20/2024 22:56	47101	MARL_T1	37	30	-7	0.93	0.24	-0.69	-1.84	-1.87	1	1	0	600	600	0
6/20/2024 22:58	61701	ELIZ_T1	1	1	0	3.7	3.8	0.1	1.14	1.01	0	0	0	0	0	0
6/20/2024 23:03	62101	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/20/2024 23:03	62102	ELAN_T1	0	0	0	0	0	0	0.56	0.48	0	0	0	0	0	0
6/20/2024 23:03	47104	MARL_T1	21	19	-2	0.65	0.39	-0.26	0	0	0	0	0	0	0	0
6/20/2024 23:03	47101	MARL_T1	30	44	14	0.47	0.24	-0.23	-1.84	-1.87	1	1	0	600	600	0
6/20/2024 23:05	53903	HALI_T2	2	2	0	0.45	0.5	0.05	-0.08	-0.09	0	0	0	0	0	0
6/20/2024 23:05	53902	HALI_T2	1	1	0	4.4	4.2	-0.2	0	0	0	0	0	0	0	0
6/20/2024 23:06	57505	LAWN_T3	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
6/20/2024 23:09	50502	MECH_T1	1	1	0	1.3	1.2	-0.1	0.23	0.21	0	0	0	0	0	0
6/20/2024 23:13	66302	MCGO_T2	0	0	0	0	0	0	-0.88	-0.9	1	1	0	600	600	0
6/20/2024 23:24	46501	LOHA_T1	0	0	0	0	0	0	0.25	0.22	1	1	0	1200	1200	0
6/20/2024 23:24	46506	LOHA_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
6/20/2024 23:24	46504	LOHA_T1	2	2	0	1	0.45	-0.55	0	0	0	0	0	0	0	0
6/20/2024 23:38	64904	MILL_T1	0	0	0	0	0	0	0.14	0.09	0	0	0	0	0	0
6/20/2024 23:40	50506	MECH_T1	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
6/20/2024 23:40	50501	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/20/2024 23:40	50502	MECH_T1	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
6/20/2024 23:52	64201	KINZ_T1	1	7	6	0.9	0.33	-0.57	0	0	0	0	0	0	0	0
6/20/2024 23:52	64204	KINZ_T1	1	8	7	1.2	0.28	-0.92	0	0	0	0	0	0	0	0
6/20/2024 23:52	64202	KINZ_T1	2	5	3	0.2	0.44	0.24	0	0	0	0	0	0	0	0
6/20/2024 23:52	67605	WARW_T1	0	0	0	0	0	0	-0.84	-0.87	0	0	0	0	0	0
6/20/2024 23:52	64203	KINZ_T1	0	0	0	0	0	0	-0.03	0.6	1	0	-1	600	0	-600
6/20/2024 23:53	64203	KINZ_T1	0	0	0	0	0	0	-0.03	0.6	1	0	-1	600	0	-600
6/20/2024 23:53	67605	WARW_T1	0	0	0	0	0	0	-0.84	-0.87	0	0	0	0	0	0
6/20/2024 23:53	64202	KINZ_T1	2	5	3	0.2	0.44	0.24	0	0	0	0	0	0	0	0
6/20/2024 23:53	64201	KINZ_T1	1	7	6	0.9	0.33	-0.57	0	0	0	0	0	0	0	0
6/20/2024 23:53	64204	KINZ_T1	1	8	7	1.2	0.28	-0.92	0	0	0	0	0	0	0	0
6/21/2024 0:04	61301	EARL_T1	0	0	0	0	0	0	-1.31	-1.32	2	2	0	1800	1800	0
6/21/2024 0:13	64204	KINZ_T1	8	1	-7	0.28	0.7	0.42	0	0	0	0	0	0	0	0
6/21/2024 0:13	64202	KINZ_T1	5	3	-2	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
6/21/2024 0:13	64201	KINZ_T1	7	1	-6	0.33	0.9	0.57	0	0	0	0	0	0	0	0
6/21/2024 0:13	64203	KINZ_T1	0	0	0	0	0	0	0.6	0.67	0	0	0	0	0	0
6/21/2024 0:13	67605	WARW_T1	0	0	0	0	0	0	-0.87	-0.9	0	0	0	0	0	0
6/21/2024 0:14	64203	KINZ_T1	0	0	0	0	0	0	0.6	0.67	0	0	0	0	0	0
6/21/2024 0:14	64204	KINZ_T1	8	1	-7	0.28	0.7	0.42	0	0	0	0	0	0	0	0
6/21/2024 0:14	64202	KINZ_T1	5	3	-2	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
6/21/2024 0:14	67605	WARW_T1	0	0	0	0	0	0	-0.87	-0.9	0	0	0	0	0	0
6/21/2024 0:14	64201	KINZ_T1	7	1	-6	0.33	0.9	0.57	0	0	0	0	0	0	0	0
6/21/2024 1:02	61302	EARL_T1	0	79	79	0	0.48	0.48	0	0	0	0	0	0	0	0
6/21/2024 1:02	61304	EARL_T1	0	167	167	0	0.84	0.84	0	0	0	0	0	0	0	0
6/21/2024 1:02	61301	EARL_T1	0	77	77	0	1.01	1.01	-1.35	-1.36	2	2	0	1800	1800	0
6/21/2024 1:02	61303	EARL_T1	0	40	40	0	0.31	0.31	0	0	0	0	0	0	0	0
6/21/2024 1:02	61306	EARL_T1	0	34	34	0	0.66	0.66	0	0	0	0	0	0	0	0
6/21/2024 1:02	61305	EARL_T1	0	7	7	0	0.41	0.41	0	0	0	0	0	0	0	0
6/21/2024 6:36	43304	WATS_T2	0	0	0	0	0	0	-0.32	-0.27	1	0	-1	600	0	-600
6/21/2024 6:42	62101	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/21/2024 6:42	62102	ELAN_T1	0	0	0	0	0	0	0.82	0.78	0	0	0	0	0	0
6/21/2024 6:43	62101	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/21/2024 6:43	62106	ELAN_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
6/21/2024 6:56	45502	DERR_T2	1	0	-1	0.1	0.4	0.3	0.09	0.09	0	0	0	0	0	0
6/21/2024 6:56	45501	DERR_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/21/2024 7:03	15204	SFAR_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
6/21/2024 7:07	67001	STHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/21/2024 7:07	67002	STHI_T2	0	0	0	0	0	0	0.98	1.01	0	0	0	0	0	0
6/21/2024 7:08	15203	SFAR_T2	0	0	0	0	0	0	-0.88	-0.85	0	0	0	0	0	0
6/21/2024 7:08	67001	STHI_T2	1	0	-1	0.2	0	-0.2	0.21	0.24	0	0	0	0	0	0
6/21/2024 7:08	54505	ENOL_T2	0	0	0	0	0	0	-1.16	-1.14	1	1	0	600	600	0
6/21/2024 7:09	11103	EGYP_T1	0	0	0	0	0	0	-0.73	-0.71	0	0	0	0	0	0
6/21/2024 7:13	23403	HONE_T1	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
6/21/2024 7:14	11103	EGYP_T1	0	0	0	0	0	0	-0.73	-0.71	0	0	0	0	0	0
6/21/2024 7:16	23401	HONE_T2	2	10	8	0.3	0.6	0.3	0.5	0.51	0	0	0	0	0	0
6/21/2024 7:19	58401	MORO_T1	0	1	1	0	0	0	-1.42	-1.39	2	2	0	1200	1200	0
6/21/2024 7:19	58402	MORO_T1	0	2	2	0	0.9	0.9	-0.73	-0.69	3	3	0	2400	2400	0
6/21/2024 7:26	45501	DERR_T2	0	1	1	0	0	0	0.63	0.66	2	2	0	1800	1800	0
6/21/2024 7:26	45502	DERR_T2	1	2	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/21/2024 7:30	41801	GOCI_T2	0	1	1	0	0.3	0.3	0	0	1	0	-1	900	0	-900
6/21/2024 7:31	41801	GOCI_T2	0	1	1	0	0.3	0.3	0	0	1	0	-1	900	0	-900
6/21/2024 7:34	67402	WAKE_T2	0	0	0	0	0	0	-0.17	-0.13	1	1	0	600	600	0
6/21/2024 7:34	67401	WAKE_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/21/2024 7:34	51204	MTON_T2	0	0	0	0	0	0	-0.23	-0.22	1	1	0	600	600	0
6/21/2024 7:35	43202	MVIL_T2	20	7	-13	0.18	0.2	0.02	-0.48	-0.46	0	0	0	0	0	0
6/21/2024 7:35	22701	MINO_T1	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
6/21/2024 7:40	62105	ELAN_T1	0	0	0	0	0	0	0.7	0.72	0	0	0	0	0	0
6/21/2024 7:40	20403	ASHF_T2	1	0	-1	4.5	0	-4.5	0.48	0.82	0	0	0	0	0	0
6/21/2024 7:40	20401	ASHF_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/21/2024 7:41	20403	ASHF_T2	1	0	-1	4.5	0	-4.5	0.48	0.82	0	0	0	0	0	0
6/21/2024 7:41	60802	BUCK_T2	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
6/21/2024 7:41	20401	ASHF_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/21/2024 7:42	41801	GOCI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/21/2024 7:46	41801	GOCI_T2	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
6/21/2024 7:49	13905	SEID_T1	0	0	0	0	0	0	0.57	0.67	0	0	0	0	0	0
6/21/2024 7:49	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 7:50	22701	MINO_T1	0	0	0	0	0	0	0.12	0.23	0	0	0	0	0	0
6/21/2024 7:54	67605	WARW_T1	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
6/21/2024 9:44	67605	WARW_T1	0	0	0	0	0	0	-0.67	-0.64	0	0	0	0	0	0
6/21/2024 9:45	67605	WARW_T1	0	0	0	0	0	0	-0.67	-0.64	0	0	0	0	0	0
6/21/2024 10:31	64305	LINC_T1	1	1	0	1.3	0.8	-0.5	-0.57	-0.63	0	0	0	0	0	0
6/21/2024 11:39	64305	LINC_T1	0	1	1	0	0	0	-0.45	-0.21	0	0	0	0	0	0
6/21/2024 12:23	67605	WARW_T1	1	1	0	0.3	0.2	-0.1	-0.69	-0.73	0	0	0	0	0	0
6/21/2024 13:59	20601	GRWO_T2	354	385	31	1.34	1.4	0.06	0.6	0.6	0	0	0	0	0	0
6/21/2024 14:00	52401	GRPA_T2	4	14	10	0.43	0.42	-0.01	0	0	0	0	0	0	0	0
6/21/2024 14:00	52402	GRPA_T2	92	94	2	1.03	0.61	-0.42	0	0	0	0	0	0	0	0
6/21/2024 14:00	10805	CHHI_T2	440	399	-41	1.56	1.31	-0.25	0.46	0.54	1	1	0	600	600	0
6/21/2024 14:00	52403	GRPA_T2	79	89	10	1.03	1.47	0.44	-0.15	-0.1	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/21/2024 14:04	64301	LINC_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/21/2024 14:04	64305	LINC_T1	1	1	0	0.7	0.4	-0.3	-0.08	-0.08	0	0	0	0	0	0
6/21/2024 14:06	59202	THOM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/21/2024 14:06	67801	WLAN_T1	40	112	72	0.48	0.38	-0.1	-0.3	-0.26	0	0	0	0	0	0
6/21/2024 14:06	67804	WLAN_T1	10	10	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
6/21/2024 14:08	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	900	900	0
6/21/2024 14:08	44301	BEAV_T2	61	41	-20	0.79	0.59	-0.2	0.74	0.45	2	2	0	1500	1500	0
6/21/2024 14:08	29402	BELT_T1	31	20	-11	0.62	0.79	0.17	0	0	0	0	0	0	0	0
6/21/2024 14:09	44301	BEAV_T2	61	41	-20	0.79	0.59	-0.2	0.74	0.45	2	2	0	1500	1500	0
6/21/2024 14:09	58003	WCAR_T1	0	4	4	0	0.58	0.58	1.39	1.42	2	2	0	1200	1200	0
6/21/2024 14:09	10801	CHHI_T1	207	209	2	1.4	1.27	-0.13	-0.65	-0.62	3	3	0	2100	2100	0
6/21/2024 14:09	10805	CHHI_T2	440	399	-41	1.56	1.31	-0.25	1.09	1.09	2	2	0	1200	1200	0
6/21/2024 14:09	58001	WCAR_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
6/21/2024 14:10	10805	CHHI_T2	440	399	-41	1.56	1.31	-0.25	0.54	0.54	1	1	0	600	600	0
6/21/2024 14:10	44301	BEAV_T2	61	41	-20	0.79	0.59	-0.2	0.74	0.45	2	2	0	1500	1500	0
6/21/2024 14:10	29402	BELT_T1	31	20	-11	0.62	0.79	0.17	0	0	0	0	0	0	0	0
6/21/2024 14:10	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	2	2	0	1800	1800	0
6/21/2024 14:10	56801	BENV_T1	2	4	2	1.25	0.6	-0.65	0.09	0.1	1	1	0	600	600	0
6/21/2024 14:10	45402	WBLO_T2	1	1	0	0.6	0.5	-0.1	-0.53	-0.52	1	1	0	900	900	0
6/21/2024 14:10	61102	BERK_T5	0	0	0	0	0	0	0	0.05	2	2	0	1500	1500	0
6/21/2024 14:10	15001	BLMO_T1	2	4	2	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
6/21/2024 14:10	56803	BENV_T1	13	20	7	1.92	1.95	0.03	0	0	0	0	0	0	0	0
6/21/2024 14:10	61101	BERK_T5	8	12	4	0.15	0.49	0.34	0	0	0	0	0	0	0	0
6/21/2024 14:11	11103	EGYP_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/21/2024 14:11	56801	BENV_T1	2	4	2	1.25	0.6	-0.65	0.09	0.1	1	1	0	600	600	0
6/21/2024 14:11	11104	EGYP_T1	28	46	18	1.05	0.87	-0.18	0.57	0.58	1	1	0	900	900	0
6/21/2024 14:11	11102	EGYP_T1	30	42	12	1.14	1	-0.14	0	0	0	0	0	0	0	0
6/21/2024 14:11	56803	BENV_T1	13	20	7	1.92	1.95	0.03	0	0	0	0	0	0	0	0
6/21/2024 14:11	11101	EGYP_T1	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/21/2024 14:12	16102	BING_T2	24	25	1	1.45	0.72	-0.73	0	0	0	0	0	0	0	0
6/21/2024 14:12	61101	BERK_T5	8	12	4	0.15	0.49	0.34	0	0	0	0	0	0	0	0
6/21/2024 14:12	44801	EDAN_T2	44	54	10	0.74	0.64	-0.1	2.3	2.3	0	0	0	0	0	0
6/21/2024 14:12	56801	BENV_T1	2	4	2	1.25	0.6	-0.65	0.09	0.1	1	1	0	600	600	0
6/21/2024 14:12	44301	BEAV_T2	61	41	-20	0.79	0.59	-0.2	0.74	0.45	2	2	0	1500	1500	0
6/21/2024 14:12	61102	BERK_T5	0	0	0	0	0	0	0	0.05	2	2	0	1500	1500	0
6/21/2024 14:12	56803	BENV_T1	13	20	7	1.92	1.95	0.03	0	0	0	0	0	0	0	0
6/21/2024 14:12	16101	BING_T2	42	10	-32	1.01	2.74	1.73	1.63	0.8	0	0	0	0	0	0
6/21/2024 14:12	16103	BING_T2	4	5	1	0.88	0.95	0.07	-1.54	-1.51	2	2	0	1500	1500	0
6/21/2024 14:13	10801	CHHI_T1	207	209	2	1.4	1.27	-0.13	-0.65	-0.62	3	3	0	2100	2100	0
6/21/2024 14:13	56803	BENV_T1	13	20	7	1.92	1.95	0.03	0	0	0	0	0	0	0	0
6/21/2024 14:13	56801	BENV_T1	2	4	2	1.25	0.6	-0.65	0.45	0.52	5	5	0	3000	3000	0
6/21/2024 14:14	10801	CHHI_T1	207	209	2	1.4	1.27	-0.13	-0.65	-0.62	3	3	0	2100	2100	0
6/21/2024 14:14	56801	BENV_T1	2	4	2	1.25	0.6	-0.65	0.09	0.1	1	1	0	600	600	0
6/21/2024 14:14	41801	GOCI_T2	2	4	2	1.05	0.7	-0.35	0	0	1	1	0	900	900	0
6/21/2024 14:14	40902	JESH_T1	6	4	-2	0.62	0.15	-0.47	-1.43	-1.45	3	3	0	1800	1800	0
6/21/2024 14:14	40101	HUNT_T2	188	323	135	0.69	0.56	-0.13	-0.64	-1.02	0	0	0	0	0	0
6/21/2024 14:14	22901	HARW_T1	37	44	7	1.05	0.78	-0.27	0.07	0.03	1	1	0	1200	1200	0
6/21/2024 14:14	22903	HARW_T1	21	23	2	0.51	0.51	0	0	0	0	0	0	0	0	0
6/21/2024 14:14	40901	JESH_T1	3	3	0	0.97	1.03	0.06	0	0	0	0	0	0	0	0
6/21/2024 14:14	11805	FRAN_T1	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 14:14	40903	JESH_T1	4	10	6	0.2	0.22	0.02	0	0	0	0	0	0	0	0
6/21/2024 14:14	56803	BENV_T1	13	20	7	1.92	1.95	0.03	0	0	0	0	0	0	0	0
6/21/2024 14:14	22905	HARW_T1	7	17	10	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
6/21/2024 14:14	11804	FRAN_T1	226	232	6	1.27	1.22	-0.05	1.45	1.4	0	0	0	0	0	0
6/21/2024 14:14	20601	GRWO_T2	361	399	38	1.43	1.39	-0.04	1.21	1.21	0	0	0	0	0	0
6/21/2024 14:14	11802	FRAN_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:15	52402	GRPA_T2	93	73	-20	0.94	0.6	-0.34	0	0	0	0	0	0	0	0
6/21/2024 14:15	40101	HUNT_T2	322	197	-125	0.83	0.52	-0.31	-1.28	-2.05	0	0	0	0	0	0
6/21/2024 14:15	22901	HARW_T1	30	65	35	0.8	0.84	0.04	0	0	0	0	0	0	0	0
6/21/2024 14:15	11101	EGYP_T1	1	4	3	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
6/21/2024 14:15	56803	BENV_T1	13	20	7	2.13	1.68	-0.45	0	0	0	0	0	0	0	0
6/21/2024 14:15	52403	GRPA_T2	78	94	16	1.39	1.16	-0.23	0	0	0	0	0	0	0	0
6/21/2024 14:15	11103	EGYP_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/21/2024 14:15	22905	HARW_T1	1	18	17	0.2	0.66	0.46	0	0	0	0	0	0	0	0
6/21/2024 14:15	52401	GRPA_T2	13	18	5	0.42	0.57	0.15	0	0	0	0	0	0	0	0
6/21/2024 14:15	45802	HEGI_T2	12	6	-6	0.29	0.4	0.11	-0.13	0	2	2	0	1200	1200	0
6/21/2024 14:15	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/21/2024 14:15	11104	EGYP_T1	46	29	-17	0.85	1.1	0.25	0.57	0.58	1	1	0	900	900	0
6/21/2024 14:15	10805	CHHI_T2	396	401	5	1.34	1.37	0.03	0.54	0.54	1	1	0	600	600	0
6/21/2024 14:15	56801	BENV_T1	1	3	2	0.9	0.43	-0.47	0.27	0.31	3	3	0	1800	1800	0
6/21/2024 14:15	41801	GOCI_T2	4	4	0	0.78	0.63	-0.15	0	0	1	1	0	900	900	0
6/21/2024 14:15	22903	HARW_T1	23	27	4	1.49	0.49	-1	-0.09	-0.13	0	0	0	0	0	0
6/21/2024 14:15	11102	EGYP_T1	30	44	14	1.04	0.88	-0.16	0	0	0	0	0	0	0	0
6/21/2024 14:15	44801	EDAN_T2	52	61	9	0.73	0.64	-0.09	1.15	1.15	0	0	0	0	0	0
6/21/2024 14:15	52404	GRPA_T2	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
6/21/2024 14:16	46803	HEPB_T2	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
6/21/2024 14:16	45802	HEGI_T2	12	6	-6	0.29	0.4	0.11	-0.13	0	2	2	0	1200	1200	0
6/21/2024 14:16	46801	HEPB_T2	18	39	21	0.41	0.3	-0.11	0.66	0.67	0	0	0	0	0	0
6/21/2024 14:16	40101	HUNT_T2	322	197	-125	0.83	0.52	-0.31	-0.64	-1.02	0	0	0	0	0	0
6/21/2024 14:17	13105	NHAM_T2	71	106	35	0.69	0.64	-0.05	-1.41	-1.38	1	1	0	1200	1200	0
6/21/2024 14:17	60501	NMAN_T2	3	3	0	4.17	4.13	-0.04	0	0	0	0	0	0	0	0
6/21/2024 14:17	40903	JESH_T1	6	9	3	0.23	0.43	0.2	0	0	0	0	0	0	0	0
6/21/2024 14:17	22905	HARW_T1	1	18	17	0.2	0.66	0.46	-0.24	-0.23	0	0	0	0	0	0
6/21/2024 14:17	22903	HARW_T1	23	27	4	1.49	0.49	-1	0	0	0	0	0	0	0	0
6/21/2024 14:17	64302	LINC_T2	11	19	8	0.65	0.36	-0.29	2.07	2.07	0	0	0	0	0	0
6/21/2024 14:17	40902	JESH_T1	4	4	0	0.15	0.15	0	-1.43	-1.45	3	3	0	1800	1800	0
6/21/2024 14:17	60502	NMAN_T2	1	0	-1	0.1	0	-0.1	0.26	0.28	0	0	0	0	0	0
6/21/2024 14:17	22901	HARW_T1	30	65	35	0.8	0.84	0.04	0.07	0.03	1	1	0	1200	1200	0
6/21/2024 14:17	64304	LINC_T2	3	2	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/21/2024 14:17	13103	NHAM_T2	4	17	13	0.7	0.38	-0.32	0	0	0	0	0	0	0	0
6/21/2024 14:17	13102	NHAM_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:17	40901	JESH_T1	3	3	0	1.07	0.97	-0.1	0	0	0	0	0	0	0	0
6/21/2024 14:18	41902	REED_T1	34	62	28	0.54	0.55	0.01	-0.03	0.1	1	1	0	900	900	0
6/21/2024 14:18	65601	QVIL_T2	11	22	11	0.38	0.31	-0.07	0	0	0	0	0	0	0	0
6/21/2024 14:18	25501	MADI_T1	2	22	20	1.55	0.54	-1.01	0	0	0	0	0	0	0	0
6/21/2024 14:18	65205	PRIN_T1	1	1	0	1.7	1.1	-0.6	0	0	0	0	0	0	0	0
6/21/2024 14:18	41901	REED_T1	9	16	7	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
6/21/2024 14:18	25503	MADI_T1	9	15	6	0.41	0.34	-0.07	-0.28	-0.22	0	0	0	0	0	0
6/21/2024 14:18	41903	REED_T1	4	4	0	1.78	0.65	-1.13	0	0	0	0	0	0	0	0
6/21/2024 14:18	64101	REFR_T1	11	14	3	2.75	2.51	-0.24	-0.39	-0.38	0	0	0	0	0	0
6/21/2024 14:18	40101	HUNT_T2	322	197	-125	0.83	0.52	-0.31	-0.64	-1.02	0	0	0	0	0	0
6/21/2024 14:18	65604	QVIL_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
6/21/2024 14:19	64101	REFR_T1	11	14	3	2.75	2.51	-0.24	-1.57	-1.52	0	0	0	0	0	0
6/21/2024 14:19	46206	DANV_T2	61	55	-6	0.73	0.6	-0.13	0	0	0	0	0	0	0	0
6/21/2024 14:19	52403	GRPA_T2	78	94	16	1.39	1.16	-0.23	0	0	0	0	0	0	0	0
6/21/2024 14:19	65601	QVIL_T2	11	22	11	0.38	0.31	-0.07	0	0	0	0	0	0	0	0
6/21/2024 14:19	65604	QVIL_T2	0	0	0	0	0	0	0.96	0.98	0	0	0	0	0	0
6/21/2024 14:19	42901	MIDD_T2	9	14	5	1.19	1.3	0.11	0	0	0	0	0	0	0	0
6/21/2024 14:19	60502	NMAN_T2	1	0	-1	0.1	0	-0.1	0.26	0.28	0	0	0	0	0	0
6/21/2024 14:19	41903	REED_T1	4	4	0	1.78	0.65	-1.13	0	0	0	0	0	0	0	0
6/21/2024 14:19	42902	MIDD_T2	53	53	0	1.82	1.33	-0.49	0	0	0	0	0	0	0	0
6/21/2024 14:19	52404	GRPA_T2	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
6/21/2024 14:19	46205	DANV_T2	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 14:19	54701	NEBL_T1	35	100	65	0.3	0.34	0.04	0	0	1	1	0	600	600	0
6/21/2024 14:19	60501	NMAN_T2	3	3	0	4.17	4.13	-0.04	0	0	0	0	0	0	0	0
6/21/2024 14:19	42903	MIDD_T2	0	0	0	0	0	0	1.16	1.12	0	0	0	0	0	0
6/21/2024 14:19	46204	DANV_T2	88	132	44	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
6/21/2024 14:19	52402	GRPA_T2	93	73	-20	0.94	0.6	-0.34	0	0	0	0	0	0	0	0
6/21/2024 14:19	41902	REED_T1	34	62	28	0.54	0.55	0.01	-0.03	0.1	1	1	0	900	900	0
6/21/2024 14:19	41901	REED_T1	9	16	7	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
6/21/2024 14:19	52401	GRPA_T2	13	18	5	0.42	0.57	0.15	0	0	0	0	0	0	0	0
6/21/2024 14:19	46203	DANV_T2	3	15	12	0.63	0.49	-0.14	-3.72	-3.63	0	0	0	0	0	0
6/21/2024 14:20	46203	DANV_T2	3	15	12	0.63	0.49	-0.14	-1.86	-1.81	0	0	0	0	0	0
6/21/2024 14:20	46206	DANV_T2	61	55	-6	0.73	0.6	-0.13	0	0	0	0	0	0	0	0
6/21/2024 14:20	64101	REFR_T1	11	14	3	2.75	2.51	-0.24	-0.39	-0.38	0	0	0	0	0	0
6/21/2024 14:20	57403	SPAN_T1	6	19	13	1.1	2.07	0.97	0	0	0	0	0	0	0	0
6/21/2024 14:20	40101	HUNT_T2	322	197	-125	0.83	0.52	-0.31	-0.64	-1.02	0	0	0	0	0	0
6/21/2024 14:20	46204	DANV_T2	88	132	44	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
6/21/2024 14:20	46205	DANV_T2	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 14:20	66903	SHIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/21/2024 14:20	57401	SPAN_T1	2	18	16	0.3	0.38	0.08	-2.82	-2.67	4	4	0	3000	3000	0
6/21/2024 14:20	66901	SHIL_T2	0	0	0	0	0	0	-1.12	-1.15	0	0	0	0	0	0
6/21/2024 14:20	66902	SHIL_T2	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/21/2024 14:21	57401	SPAN_T1	2	18	16	0.3	0.38	0.08	-2.82	-2.67	4	4	0	3000	3000	0
6/21/2024 14:21	57403	SPAN_T1	6	19	13	1.1	2.07	0.97	0	0	0	0	0	0	0	0
6/21/2024 14:22	64101	REFR_T1	11	14	3	2.75	2.51	-0.24	-0.76	-0.73	0	0	0	0	0	0
6/21/2024 14:23	14401	SSLA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/21/2024 14:23	46203	DANV_T2	3	15	12	0.63	0.49	-0.14	-5.44	-5.65	0	0	0	0	0	0
6/21/2024 14:23	14403	SSLA_T1	8	5	-3	0.76	0.55	-0.21	0.88	0.9	2	2	0	1200	1200	0
6/21/2024 14:23	14402	SSLA_T1	4	0	-4	0.65	0	-0.65	0	0	0	0	0	0	0	0
6/21/2024 14:23	46205	DANV_T2	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 14:23	46206	DANV_T2	61	55	-6	0.73	0.6	-0.13	0	0	0	0	0	0	0	0
6/21/2024 14:23	14404	SSLA_T1	2	4	2	1.75	1.75	0	0	0	0	0	0	0	0	0
6/21/2024 14:23	46204	DANV_T2	88	132	44	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
6/21/2024 14:24	46204	DANV_T2	88	132	44	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
6/21/2024 14:24	20401	ASHF_T2	40	89	49	0.76	0.58	-0.18	0	0	0	0	0	0	0	0
6/21/2024 14:24	10204	ALLE_T2	28	31	3	0.76	0.59	-0.17	0	0	0	0	0	0	0	0
6/21/2024 14:24	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:24	57403	SPAN_T1	6	19	13	1.1	2.07	0.97	0	0	0	0	0	0	0	0
6/21/2024 14:24	46203	DANV_T2	3	15	12	0.63	0.49	-0.14	-3.63	-3.77	0	0	0	0	0	0
6/21/2024 14:24	10801	CHHI_T1	207	211	4	1.3	1.37	0.07	-0.62	-0.59	3	3	0	2100	2100	0
6/21/2024 14:24	57401	SPAN_T1	2	18	16	0.3	0.38	0.08	-4.01	-3.76	6	6	0	4500	4500	0
6/21/2024 14:24	10102	ALLE_T2	6	13	7	1.87	1.98	0.11	0	0	0	0	0	0	0	0
6/21/2024 14:24	57106	SPHI_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
6/21/2024 14:24	46206	DANV_T2	61	55	-6	0.73	0.6	-0.13	0	0	0	0	0	0	0	0
6/21/2024 14:24	57101	SPHI_T2	0	6	6	0	0.35	0.35	0	0	0	0	0	0	0	0
6/21/2024 14:24	20403	ASHF_T2	24	44	20	0.37	0.31	-0.06	0.26	0.49	0	0	0	0	0	0
6/21/2024 14:24	10206	ALLE_T2	5	5	0	1.14	0.86	-0.28	0	0	0	0	0	0	0	0
6/21/2024 14:24	46205	DANV_T2	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 14:24	20402	ASHF_T2	45	77	32	0.59	0.69	0.1	0	0	0	0	0	0	0	0
6/21/2024 14:24	57104	SPHI_T2	1	1	0	1.8	1.2	-0.6	-0.53	-0.52	0	0	0	0	0	0
6/21/2024 14:25	11102	EGYP_T1	30	44	14	1.04	0.88	-0.16	0	0	0	0	0	0	0	0
6/21/2024 14:25	10204	ALLE_T2	28	31	3	0.76	0.59	-0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/21/2024 14:25	11104	EGYP_T1	46	29	-17	0.85	1.1	0.25	0.58	0.6	1	1	0	900	900	0
6/21/2024 14:25	57401	SPAN_T1	2	18	16	0.3	0.38	0.08	-1.34	-1.25	2	2	0	1500	1500	0
6/21/2024 14:25	56803	BENV_T1	13	20	7	2.13	1.68	-0.45	0	0	0	0	0	0	0	0
6/21/2024 14:25	11101	EGYP_T1	1	4	3	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
6/21/2024 14:25	20403	ASHF_T2	24	44	20	0.37	0.31	-0.06	0.52	0.98	0	0	0	0	0	0
6/21/2024 14:25	11103	EGYP_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/21/2024 14:25	10206	ALLE_T2	5	5	0	1.14	0.86	-0.28	0	0	0	0	0	0	0	0
6/21/2024 14:25	57403	SPAN_T1	6	19	13	1.1	2.07	0.97	0	0	0	0	0	0	0	0
6/21/2024 14:25	10102	ALLE_T2	6	13	7	1.87	1.98	0.11	0	0	0	0	0	0	0	0
6/21/2024 14:25	61506	EPET_T2	0	0	0	0	0	0	-0.88	-0.89	2	2	0	1800	1800	0
6/21/2024 14:25	20401	ASHF_T2	40	89	49	0.76	0.58	-0.18	0	0	0	0	0	0	0	0
6/21/2024 14:25	61501	EPET_T2	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
6/21/2024 14:25	56801	BENV_T1	1	3	2	0.9	0.43	-0.47	0.21	0.24	2	2	0	1200	1200	0
6/21/2024 14:25	20402	ASHF_T2	45	77	32	0.59	0.69	0.1	0	0	0	0	0	0	0	0
6/21/2024 14:26	56803	BENV_T1	13	20	7	2.13	1.68	-0.45	0	0	0	0	0	0	0	0
6/21/2024 14:26	21201	ECAR_T1	3	0	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
6/21/2024 14:26	16103	BING_T2	4	5	1	2.1	0.82	-1.28	0	0	0	0	0	0	0	0
6/21/2024 14:26	21203	ECAR_T1	1	1	0	2.3	1.2	-1.1	0.16	0.16	0	0	0	0	0	0
6/21/2024 14:26	64101	REFR_T1	11	14	3	2.75	2.51	-0.24	-0.38	-0.37	0	0	0	0	0	0
6/21/2024 14:26	16101	BING_T2	9	7	-2	2.72	3.42	0.7	0	0	0	0	0	0	0	0
6/21/2024 14:26	16102	BING_T2	24	26	2	0.74	0.97	0.23	-0.51	-0.53	2	2	0	2100	2100	0
6/21/2024 14:26	27502	WEIS_T2	217	375	158	0.75	0.85	0.1	-0.24	-0.2	0	0	0	0	0	0
6/21/2024 14:26	56801	BENV_T1	1	3	2	0.9	0.43	-0.47	0.21	0.24	2	2	0	1200	1200	0
6/21/2024 14:26	15001	BLMO_T1	1	3	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/21/2024 14:27	10206	ALLE_T2	5	5	0	1.14	0.86	-0.28	0	0	0	0	0	0	0	0
6/21/2024 14:27	10102	ALLE_T2	6	13	7	1.87	1.98	0.11	0	0	0	0	0	0	0	0
6/21/2024 14:27	20402	ASHF_T2	45	77	32	0.59	0.69	0.1	0	0	0	0	0	0	0	0
6/21/2024 14:27	20403	ASHF_T2	24	44	20	0.37	0.31	-0.06	0.26	0.49	0	0	0	0	0	0
6/21/2024 14:27	10204	ALLE_T2	28	31	3	0.76	0.59	-0.17	0	0	0	0	0	0	0	0
6/21/2024 14:27	20401	ASHF_T2	40	89	49	0.76	0.58	-0.18	0	0	0	0	0	0	0	0
6/21/2024 14:28	64201	KINZ_T1	0	3	3	0	0	0	-0.89	-0.84	5	5	0	3300	3300	0
6/21/2024 14:28	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:28	56501	ROCK_T2	2	10	8	0.75	0	-0.75	-1.28	-1.27	0	0	0	0	0	0
6/21/2024 14:28	56504	ROCK_T2	10	28	18	0.4	0.21	-0.19	0	0	0	0	0	0	0	0
6/21/2024 14:28	47401	PENS_T1	26	36	10	0.95	0.94	-0.01	1.96	2.02	0	0	0	0	0	0
6/21/2024 14:28	64204	KINZ_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/21/2024 14:28	47402	PENS_T1	4	3	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/21/2024 14:28	47403	PENS_T1	2	5	3	0.7	0.62	-0.08	0	0	0	0	0	0	0	0
6/21/2024 14:28	56503	ROCK_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/21/2024 14:28	64203	KINZ_T1	11	10	-1	0.55	1.5	0.95	0	0	0	0	0	0	0	0
6/21/2024 14:29	56803	BENV_T1	13	20	7	2.13	1.68	-0.45	0	0	0	0	0	0	0	0
6/21/2024 14:29	56801	BENV_T1	1	3	2	0.9	0.43	-0.47	0.42	0.48	4	4	0	2400	2400	0
6/21/2024 14:29	47001	HUGH_T2	0	1	1	0	1	1	-0.55	-0.55	1	1	0	900	900	0
6/21/2024 14:29	44902	SCOT_T2	127	123	-4	0.3	0.21	-0.09	-3.04	-3.03	0	0	0	0	0	0
6/21/2024 14:29	45502	DERR_T2	89	77	-12	0.8	0.82	0.02	0.09	0.09	1	1	0	300	300	0
6/21/2024 14:29	44904	SCOT_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:29	44905	SCOT_T1	7	9	2	1.24	1.61	0.37	0	0	0	0	0	0	0	0
6/21/2024 14:29	45501	DERR_T2	87	83	-4	0.59	0.64	0.05	1.12	1.11	2	2	0	1800	1800	0
6/21/2024 14:29	44903	SCOT_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:30	56504	ROCK_T2	10	30	20	0.21	1.01	0.8	0.74	0.74	0	0	0	0	0	0
6/21/2024 14:30	11507	FREE_T2	62	34	-28	0.59	0.64	0.05	-0.04	-0.08	1	1	0	600	600	0
6/21/2024 14:30	56803	BENV_T1	20	25	5	1.38	1.68	0.3	0	0	0	0	0	0	0	0
6/21/2024 14:30	47401	PENS_T1	34	36	2	0.9	0.86	-0.04	1.96	2.02	0	0	0	0	0	0
6/21/2024 14:30	56501	ROCK_T2	0	10	10	0	0.3	0.3	-2.56	-2.53	0	0	0	0	0	0
6/21/2024 14:30	56801	BENV_T1	3	3	0	0.43	0.35	-0.08	0.21	0.24	2	2	0	1200	1200	0
6/21/2024 14:30	47403	PENS_T1	3	5	2	0.83	0.42	-0.41	0	0	0	0	0	0	0	0
6/21/2024 14:30	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:30	47402	PENS_T1	2	3	1	0.1	0.33	0.23	0	0	0	0	0	0	0	0
6/21/2024 14:31	56501	ROCK_T2	0	10	10	0	0.3	0.3	-5.12	-5.07	0	0	0	0	0	0
6/21/2024 14:31	47001	HUGH_T2	1	1	0	1	0.9	-0.1	-0.55	-0.55	1	1	0	900	900	0
6/21/2024 14:31	46101	MACI_T2	0	0	0	0	0	0	-1.06	-1.17	2	2	0	2400	2400	0
6/21/2024 14:31	47403	PENS_T1	3	5	2	0.83	0.42	-0.41	0	0	0	0	0	0	0	0
6/21/2024 14:31	56504	ROCK_T2	10	30	20	0.21	1.01	0.8	2.22	2.22	0	0	0	0	0	0
6/21/2024 14:31	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:31	47402	PENS_T1	2	3	1	0.1	0.33	0.23	0	0	0	0	0	0	0	0
6/21/2024 14:31	52006	LING_T2	3	5	2	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
6/21/2024 14:31	52004	LING_T2	0	3	3	0	0.25	0.25	0.68	0.65	0	0	0	0	0	0
6/21/2024 14:31	47401	PENS_T1	34	36	2	0.9	0.86	-0.04	0.65	0.67	0	0	0	0	0	0
6/21/2024 14:31	52002	LING_T2	0	15	15	0	0.2	0.2	0	0	0	0	0	0	0	0
6/21/2024 14:32	12304	LANA_T2	243	312	69	1.45	1.39	-0.06	0	0	0	0	0	0	0	0
6/21/2024 14:32	64201	KINZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:32	12302	LANA_T2	22	36	14	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
6/21/2024 14:32	45502	DERR_T2	71	86	15	0.83	0.95	0.12	0	0	0	0	0	0	0	0
6/21/2024 14:32	45501	DERR_T2	74	95	21	0.56	0.62	0.06	1.12	1.11	2	2	0	1800	1800	0
6/21/2024 14:32	12301	LANA_T2	2	1	-1	0.45	0	-0.45	-1.82	-1.8	1	1	0	1200	1200	0
6/21/2024 14:32	56501	ROCK_T2	0	10	10	0	0.3	0.3	-5.12	-5.07	0	0	0	0	0	0
6/21/2024 14:32	64203	KINZ_T1	6	11	5	0.87	1.23	0.36	0.57	0.59	3	3	0	2100	2100	0
6/21/2024 14:32	64204	KINZ_T1	1	4	3	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/21/2024 14:32	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:32	12305	LANA_T2	24	27	3	0.98	0.99	0.01	0	0	0	0	0	0	0	0
6/21/2024 14:32	56504	ROCK_T2	10	30	20	0.21	1.01	0.8	0.74	0.74	0	0	0	0	0	0
6/21/2024 14:32	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 14:32	64101	REFR_T1	12	13	1	2.93	2.52	-0.41	-0.38	-0.37	0	0	0	0	0	0
6/21/2024 14:33	12704	MACU_T1	10	11	1	0.99	0.99	0	0	0	0	0	0	0	0	0
6/21/2024 14:33	12701	MACU_T1	65	100	35	0.69	0.78	0.09	-0.46	-0.55	1	1	0	1200	1200	0
6/21/2024 14:34	41901	REED_T1	12	14	2	0.43	0.47	0.04	0	0	0	0	0	0	0	0
6/21/2024 14:34	41902	REED_T1	45	59	14	0.58	0.41	-0.17	0.1	0.1	1	1	0	900	900	0
6/21/2024 14:34	56501	ROCK_T2	0	10	10	0	0.3	0.3	-1.28	-1.27	0	0	0	0	0	0
6/21/2024 14:34	41903	REED_T1	4	4	0	1.85	0.4	-1.45	0	0	0	0	0	0	0	0
6/21/2024 14:34	56504	ROCK_T2	10	30	20	0.21	1.01	0.8	0	0	0	0	0	0	0	0
6/21/2024 14:34	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:34	45502	DERR_T2	71	86	15	0.83	0.95	0.12	0	0	0	0	0	0	0	0
6/21/2024 14:34	65001	NEFF_T2	0	0	0	0	0	0	0.57	0.53	1	1	0	1200	1200	0
6/21/2024 14:34	12301	LANA_T2	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
6/21/2024 14:34	45501	DERR_T2	74	95	21	0.56	0.62	0.06	1.12	1.11	2	2	0	1800	1800	0
6/21/2024 14:34	13503	MCMI_T2	2	3	1	0.5	0.57	0.07	-0.43	-0.41	0	0	0	0	0	0
6/21/2024 14:34	12304	LANA_T2	243	312	69	1.45	1.39	-0.06	0	0	0	0	0	0	0	0
6/21/2024 14:34	12305	LANA_T2	24	27	3	0.98	0.99	0.01	0	0	0	0	0	0	0	0
6/21/2024 14:34	12302	LANA_T2	22	36	14	0.45	0.43	-0.02	-1.4	-1.37	3	3	0	2700	2700	0
6/21/2024 14:35	12704	MACU_T1	10	11	1	0.99	0.99	0	0	0	0	0	0	0	0	0
6/21/2024 14:35	13503	MCMI_T2	2	3	1	0.5	0.57	0.07	-0.86	-0.83	0	0	0	0	0	0
6/21/2024 14:35	56504	ROCK_T2	10	30	20	0.21	1.01	0.8	0.74	0.74	0	0	0	0	0	0
6/21/2024 14:35	12701	MACU_T1	65	100	35	0.69	0.78	0.09	-0.46	-0.55	1	1	0	1200	1200	0
6/21/2024 14:35	56501	ROCK_T2	0	10	10	0	0.3	0.3	0	0	0	0	0	0	0	0
6/21/2024 14:35	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:35	54701	NEBL_T1	43	120	77	0.35	0.49	0.14	0	0	1	1	0	600	600	0
6/21/2024 14:36	41902	REED_T1	45	59	14	0.58	0.41	-0.17	0.1	0.1	1	1	0	900	900	0
6/21/2024 14:36	12704	MACU_T1	10	11	1	0.99	0.99	0	0	0	0	0	0	0	0	0
6/21/2024 14:36	41901	REED_T1	12	14	2	0.43	0.47	0.04	0	0	0	0	0	0	0	0
6/21/2024 14:36	12701	MACU_T1	65	100	35	0.69	0.78	0.09	-0.55	-0.52	1	1	0	1200	1200	0
6/21/2024 14:36	66701	STRA_T1	0	4	4	0	0.8	0.8	0	0	0	0	0	0	0	0
6/21/2024 14:36	41903	REED_T1	4	4	0	1.85	0.4	-1.45	0	0	0	0	0	0	0	0
6/21/2024 14:36	66703	STRA_T1	7	8	1	0.57	0.24	-0.33	0.14	0.21	0	0	0	0	0	0
6/21/2024 14:37	41903	REED_T1	4	4	0	1.85	0.4	-1.45	0	0	0	0	0	0	0	0
6/21/2024 14:37	41901	REED_T1	12	14	2	0.43	0.47	0.04	-1.09	-1.1	1	1	0	900	900	0
6/21/2024 14:37	41902	REED_T1	45	59	14	0.58	0.41	-0.17	0	0	0	0	0	0	0	0
6/21/2024 14:37	61102	BERK_T5	0	0	0	0	0	0	0.1	0.06	2	2	0	1500	1500	0
6/21/2024 14:37	14705	TREX_T1	6	7	1	0.65	0.48	-0.17	1.08	1.1	0	0	0	0	0	0
6/21/2024 14:37	42201	SHEN_T2	0	0	0	0	0	0	0.35	0.36	1	1	0	600	600	0
6/21/2024 14:37	61101	BERK_T5	12	17	5	1.32	1.38	0.06	0	0	0	0	0	0	0	0
6/21/2024 14:38	66701	STRA_T1	0	4	4	0	0.8	0.8	0	0	0	0	0	0	0	0
6/21/2024 14:38	67605	WARW_T1	1	1	0	0.4	0.2	-0.2	-0.54	-0.54	0	0	0	0	0	0
6/21/2024 14:38	67602	WARW_T2	0	1	1	0	0	0	0.55	0.58	2	2	0	1500	1500	0
6/21/2024 14:38	66703	STRA_T1	7	8	1	0.57	0.24	-0.33	0.14	0.21	0	0	0	0	0	0
6/21/2024 14:39	67204	TEHI_T2	1	5	4	0.1	0	-0.1	0.22	0.24	0	0	0	0	0	0
6/21/2024 14:39	42201	SHEN_T2	0	0	0	0	0	0	0.35	0.36	1	1	0	600	600	0
6/21/2024 14:39	66703	STRA_T1	7	8	1	0.57	0.24	-0.33	0.14	0.21	0	0	0	0	0	0
6/21/2024 14:39	66701	STRA_T1	0	4	4	0	0.8	0.8	0	0	0	0	0	0	0	0
6/21/2024 14:39	67602	WARW_T2	0	1	1	0	0	0	1.09	1.16	4	4	0	3000	3000	0
6/21/2024 14:39	67605	WARW_T1	1	1	0	0.4	0.2	-0.2	-0.54	-0.54	0	0	0	0	0	0
6/21/2024 14:40	61102	BERK_T5	0	0	0	0	0	0	0.2	0.12	4	4	0	3000	3000	0
6/21/2024 14:40	67605	WARW_T1	1	1	0	0.4	0.2	-0.2	-1.61	-1.61	0	0	0	0	0	0
6/21/2024 14:40	67602	WARW_T2	0	1	1	0	0	0	0.55	0.58	2	2	0	1500	1500	0
6/21/2024 14:40	61101	BERK_T5	12	17	5	1.32	1.38	0.06	0	0	0	0	0	0	0	0
6/21/2024 14:40	59202	THOM_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
6/21/2024 14:41	67602	WARW_T2	0	1	1	0	0	0	1.09	1.16	4	4	0	3000	3000	0
6/21/2024 14:41	67605	WARW_T1	1	1	0	0.4	0.2	-0.2	-0.54	-0.54	0	0	0	0	0	0
6/21/2024 14:41	59202	THOM_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
6/21/2024 14:42	12701	MACU_T1	65	100	35	0.69	0.78	0.09	-0.55	-0.52	1	1	0	1200	1200	0
6/21/2024 14:42	29402	BELT_T1	13	44	31	0.92	0.8	-0.12	0	0	0	0	0	0	0	0
6/21/2024 14:42	12704	MACU_T1	10	11	1	0.99	0.99	0	0	0	0	0	0	0	0	0
6/21/2024 14:43	61101	BERK_T5	12	17	5	1.32	1.38	0.06	-0.06	-0.05	0	0	0	0	0	0
6/21/2024 14:44	45502	DERR_T2	71	86	15	0.83	0.95	0.12	0	0	0	0	0	0	0	0
6/21/2024 14:44	45501	DERR_T2	74	95	21	0.56	0.62	0.06	1.11	1.12	2	2	0	1800	1800	0
6/21/2024 14:45	56504	ROCK_T2	27	23	-4	0.8	1.08	0.28	0	0	0	0	0	0	0	0
6/21/2024 14:45	45502	DERR_T2	76	86	10	0.98	0.79	-0.19	0	0	0	0	0	0	0	0
6/21/2024 14:45	53902	HALI_T2	1	1	0	3.9	3.5	-0.4	0	0	0	0	0	0	0	0
6/21/2024 14:45	45501	DERR_T2	43	116	73	0.63	0.53	-0.1	2.23	2.24	4	4	0	3600	3600	0
6/21/2024 14:45	56501	ROCK_T2	10	5	-5	0.61	0.3	-0.31	-1.27	-1.25	0	0	0	0	0	0
6/21/2024 14:45	53903	HALI_T2	0	1	1	0	0	0	0.33	0.34	0	0	0	0	0	0
6/21/2024 14:45	56503	ROCK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/21/2024 14:46	20601	GRWO_T2	346	329	-17	1.19	1.07	-0.12	0.61	0.61	0	0	0	0	0	0
6/21/2024 14:46	41802	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:46	45502	DERR_T2	76	86	10	0.98	0.79	-0.19	0	0	0	0	0	0	0	0
6/21/2024 14:46	45501	DERR_T2	43	116	73	0.63	0.53	-0.1	1.11	1.12	2	2	0	1800	1800	0
6/21/2024 14:46	41801	GOCI_T2	4	4	0	0.68	0.7	0.02	0	0	1	1	0	900	900	0
6/21/2024 14:47	45501	DERR_T2	43	116	73	0.63	0.53	-0.1	1.11	1.12	2	2	0	1800	1800	0
6/21/2024 14:47	56504	ROCK_T2	27	23	-4	0.8	1.08	0.28	0	0	0	0	0	0	0	0
6/21/2024 14:47	56503	ROCK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/21/2024 14:47	53903	HALI_T2	0	1	1	0	0	0	0.33	0.34	0	0	0	0	0	0
6/21/2024 14:47	53902	HALI_T2	1	1	0	3.9	3.5	-0.4	0	0	0	0	0	0	0	0
6/21/2024 14:47	56501	ROCK_T2	10	5	-5	0.61	0.3	-0.31	-2.53	-2.51	0	0	0	0	0	0
6/21/2024 14:47	41801	GOCI_T2	4	4	0	0.68	0.7	0.02	0	0	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/21/2024 14:47	41802	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:47	45502	DERR_T2	76	86	10	0.98	0.79	-0.19	0.09	0.08	1	1	0	300	300	0
6/21/2024 14:50	14404	SSLA_T1	2	2	0	1.75	3	1.25	0	0	0	0	0	0	0	0
6/21/2024 14:50	46301	ROHR_T1	3	4	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
6/21/2024 14:50	14402	SSLA_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 14:50	46302	ROHR_T1	8	8	0	0.99	1.24	0.25	0.52	0.53	0	0	0	0	0	0
6/21/2024 14:50	14401	SSLA_T1	1	3	2	0.3	0.37	0.07	0	0	0	0	0	0	0	0
6/21/2024 14:50	66703	STRA_T1	6	9	3	0.32	0.34	0.02	0.14	0.21	0	0	0	0	0	0
6/21/2024 14:50	14403	SSLA_T1	5	13	8	0.52	0.62	0.1	0.9	0.91	2	2	0	1200	1200	0
6/21/2024 14:50	66701	STRA_T1	1	5	4	0.8	0.48	-0.32	0	0	0	0	0	0	0	0
6/21/2024 14:51	67601	WARW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:51	67602	WARW_T2	0	1	1	0	0.1	0.1	0.58	0.5	2	2	0	1500	1500	0
6/21/2024 14:51	46204	DANV_T2	132	118	-14	0.73	0.46	-0.27	0	0	0	0	0	0	0	0
6/21/2024 14:51	46206	DANV_T2	55	57	2	0.81	0.65	-0.16	0	0	0	0	0	0	0	0
6/21/2024 14:51	65902	SAKR_T2	1	2	1	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
6/21/2024 14:51	46205	DANV_T2	8	2	-6	0.33	0.6	0.27	0	0	0	0	0	0	0	0
6/21/2024 14:51	65903	SAKR_T2	1	1	0	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
6/21/2024 14:51	46203	DANV_T2	7	19	12	0.5	0.4	-0.1	-1.85	-1.8	0	0	0	0	0	0
6/21/2024 14:51	65901	SAKR_T2	3	13	10	1.7	1.53	-0.17	0.11	0.09	2	2	0	1500	1500	0
6/21/2024 14:52	67601	WARW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:52	58001	WCAR_T1	1	1	0	0.3	0.1	-0.2	-0.59	-0.6	0	0	0	0	0	0
6/21/2024 14:52	67602	WARW_T2	0	1	1	0	0.1	0.1	0.58	0.5	2	2	0	1500	1500	0
6/21/2024 14:52	64101	REFR_T1	13	12	-1	2.47	3.18	0.71	-0.35	-0.34	0	0	0	0	0	0
6/21/2024 14:52	14403	SSLA_T1	5	13	8	0.52	0.62	0.1	0.91	0.93	2	2	0	1200	1200	0
6/21/2024 14:52	14404	SSLA_T1	2	2	0	1.75	3	1.25	0	0	0	0	0	0	0	0
6/21/2024 14:52	14401	SSLA_T1	1	3	2	0.3	0.37	0.07	0	0	0	0	0	0	0	0
6/21/2024 14:52	58003	WCAR_T1	3	3	0	0.77	0.63	-0.14	0	0	0	0	0	0	0	0
6/21/2024 14:52	14402	SSLA_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 14:54	67601	WARW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:54	45602	WOOL_T1	3	14	11	1.07	0.37	-0.7	1.07	1.07	0	0	0	0	0	0
6/21/2024 14:54	67602	WARW_T2	0	1	1	0	0.1	0.1	1.74	1.5	6	6	0	4500	4500	0
6/21/2024 14:55	24902	WHHA_T1	22	29	7	0.5	0.45	-0.05	1.06	1.07	0	0	0	0	0	0
6/21/2024 14:55	24901	WHHA_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
6/21/2024 14:55	56801	BENV_T1	2	4	2	0.25	0.48	0.23	-0.24	-0.84	2	4	2	1200	2400	1200
6/21/2024 14:55	56803	BENV_T1	12	26	14	1.71	2.91	1.2	0	0	0	0	0	0	0	0
6/21/2024 14:55	45602	WOOL_T1	3	14	11	1.07	0.37	-0.7	2.13	2.14	0	0	0	0	0	0
6/21/2024 14:56	56803	BENV_T1	12	26	14	1.71	2.91	1.2	0	0	0	0	0	0	0	0
6/21/2024 14:56	20402	ASHF_T2	71	131	60	0.73	0.68	-0.05	0	0	0	0	0	0	0	0
6/21/2024 14:56	56801	BENV_T1	2	4	2	0.25	0.48	0.23	-0.12	-0.42	1	2	1	600	1200	600
6/21/2024 14:56	67602	WARW_T2	0	1	1	0	0.1	0.1	0.58	0.5	2	2	0	1500	1500	0
6/21/2024 14:56	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:56	20403	ASHF_T2	33	82	49	0.54	0.38	-0.16	0.44	0.29	0	0	0	0	0	0
6/21/2024 14:56	67601	WARW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:56	20401	ASHF_T2	89	78	-11	0.72	0.59	-0.13	0	0	0	0	0	0	0	0
6/21/2024 14:56	61304	EARL_T1	0	0	0	0	0	0	-0.08	0.17	3	3	0	1800	1800	0
6/21/2024 14:57	56801	BENV_T1	2	4	2	0.25	0.48	0.23	-0.24	-0.84	2	4	2	1200	2400	1200
6/21/2024 14:57	56803	BENV_T1	12	26	14	1.71	2.91	1.2	0	0	0	0	0	0	0	0
6/21/2024 14:57	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 14:57	61304	EARL_T1	0	0	0	0	0	0	-0.03	0.06	1	1	0	600	600	0
6/21/2024 14:58	56801	BENV_T1	2	4	2	0.25	0.48	0.23	-0.12	-0.42	1	2	1	600	1200	600
6/21/2024 14:58	56803	BENV_T1	12	26	14	1.71	2.91	1.2	0	0	0	0	0	0	0	0
6/21/2024 15:00	56803	BENV_T1	25	10	-15	1.36	3	1.64	0	0	0	0	0	0	0	0
6/21/2024 15:00	44905	SCOT_T1	16	16	0	1.06	1.21	0.15	0	0	0	0	0	0	0	0
6/21/2024 15:00	56504	ROCK_T2	22	33	11	1.27	1.3	0.03	0	0	0	0	0	0	0	0
6/21/2024 15:00	56801	BENV_T1	2	4	2	0.35	0.45	0.1	-0.12	-0.42	1	2	1	600	1200	600
6/21/2024 15:00	44903	SCOT_T1	11	15	4	0.67	1.2	0.53	0	0	0	0	0	0	0	0
6/21/2024 15:00	56501	ROCK_T2	2	6	4	0.43	0.43	0.13	-1.25	-1.24	0	0	0	0	0	0
6/21/2024 15:00	44904	SCOT_T1	4	4	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
6/21/2024 15:02	52402	GRPA_T2	61	99	38	0.57	0.62	0.05	0	0	0	0	0	0	0	0
6/21/2024 15:02	52404	GRPA_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
6/21/2024 15:02	52401	GRPA_T2	12	80	68	0.41	0.53	0.12	-0.56	-0.57	0	0	0	0	0	0
6/21/2024 15:02	52403	GRPA_T2	65	196	131	0.91	1.05	0.14	0	0	0	0	0	0	0	0
6/21/2024 15:03	52404	GRPA_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
6/21/2024 15:03	52401	GRPA_T2	12	80	68	0.41	0.53	0.12	-0.56	-0.57	0	0	0	0	0	0
6/21/2024 15:03	52403	GRPA_T2	65	196	131	0.91	1.05	0.14	0	0	0	0	0	0	0	0
6/21/2024 15:03	52402	GRPA_T2	61	99	38	0.57	0.62	0.05	0	0	0	0	0	0	0	0
6/21/2024 15:06	14403	SSLA_T1	9	12	3	0.66	0.73	0.07	0.93	0.94	2	2	0	1200	1200	0
6/21/2024 15:06	44203	POIN_T2	8	7	-1	2.89	0.28	-2.61	0	0	0	0	0	0	0	0
6/21/2024 15:06	14404	SSLA_T1	1	2	1	3	3	0	0	0	0	0	0	0	0	0
6/21/2024 15:06	14402	SSLA_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 15:06	14401	SSLA_T1	3	4	1	0.37	0.8	0.43	0	0	0	0	0	0	0	0
6/21/2024 15:06	44202	POIN_T2	1	0	-1	0.3	0	-0.3	-0.42	-0.58	2	2	0	1800	1800	0
6/21/2024 15:07	49804	UNIV_T1	21	24	3	0.74	0.83	0.09	0	0	0	0	0	0	0	0
6/21/2024 15:07	43304	WATS_T2	18	22	4	0.32	1	0.68	-0.81	-0.84	1	1	0	600	600	0
6/21/2024 15:07	46301	ROHR_T1	4	2	-2	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
6/21/2024 15:07	67203	TEHI_T1	7	18	11	0.86	0.72	-0.14	2.41	2.31	3	3	0	2100	2100	0
6/21/2024 15:07	43301	WATS_T2	8	3	-5	0.55	0.67	0.12	0	0	0	0	0	0	0	0
6/21/2024 15:07	67201	TEHI_T1	45	49	4	0.66	0.63	-0.03	0	0	0	0	0	0	0	0
6/21/2024 15:07	46302	ROHR_T1	7	10	3	1.29	1.2	-0.09	0.53	0.54	0	0	0	0	0	0
6/21/2024 15:07	49803	UNIV_T1	3	26	23	0.13	0.1	-0.03	-0.04	0.04	0	0	0	0	0	0
6/21/2024 15:08	43301	WATS_T2	8	3	-5	0.55	0.67	0.12	0	0	0	0	0	0	0	0
6/21/2024 15:08	14401	SSLA_T1	3	4	1	0.37	0.8	0.43	0	0	0	0	0	0	0	0
6/21/2024 15:08	14403	SSLA_T1	9	12	3	0.66	0.73	0.07	0.93	0.94	2	2	0	1200	1200	0
6/21/2024 15:08	46302	ROHR_T1	7	10	3	1.29	1.2	-0.09	0.53	0.54	0	0	0	0	0	0
6/21/2024 15:08	46301	ROHR_T1	4	2	-2	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
6/21/2024 15:08	43304	WATS_T2	18	22	4	0.32	1	0.68	-0.81	-0.84	1	1	0	600	600	0
6/21/2024 15:08	14402	SSLA_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 15:08	14404	SSLA_T1	1	2	1	3	3	0	0	0	0	0	0	0	0	0
6/21/2024 15:10	67605	WARW_T1	0	0	0	0	0	0	-0.47	-0.44	0	0	0	0	0	0
6/21/2024 15:12	20403	ASHF_T2	47	83	36	0.31	0.58	0.27	0.29	0.4	0	0	0	0	0	0
6/21/2024 15:12	20402	ASHF_T2	100	204	104	0.7	0.66	-0.04	0	0	0	0	0	0	0	0
6/21/2024 15:12	20401	ASHF_T2	66	75	9	0.6	0.6	0	0	0	0	0	0	0	0	0
6/21/2024 15:13	41801	GOCI_T2	4	4	0	0.7	0.48	-0.22	0	0	1	1	0	900	900	0
6/21/2024 15:13	41802	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 15:15	44905	SCOT_T1	12	24	12	1.14	1.33	0.19	0	0	0	0	0	0	0	0
6/21/2024 15:15	44903	SCOT_T1	15	14	-1	1.13	0.58	-0.55	0	0	0	0	0	0	0	0
6/21/2024 15:15	21206	ECAR_T2	12	43	31	1.42	0.86	-0.56	0.82	0.75	0	0	0	0	0	0
6/21/2024 15:15	11404	FARM_T1	0	2	2	0	0	0	-1.24	-1.19	1	1	0	1200	1200	0
6/21/2024 15:15	11407	FARM_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/21/2024 15:15	42902	MIDD_T2	53	53	0	2.43	2.85	0.42	-0.03	-0.32	2	1	-1	900	600	-300
6/21/2024 15:15	11406	FARM_T1	7	10	3	0.86	0.9	0.04	0	0	0	0	0	0	0	0
6/21/2024 15:15	11402	FARM_T1	15	37	22	0.92	0.79	-0.13	0	0	0	0	0	0	0	0
6/21/2024 15:15	42903	MIDD_T2	2	2	0	0.75	1.05	0.3	0	0	0	0	0	0	0	0
6/21/2024 15:15	42901	MIDD_T2	5	6	1	1.08	1.6	0.52	0	0	0	0	0	0	0	0
6/21/2024 15:15	11405	FARM_T1	14	31	17	0.71	0.59	-0.12	0	0	0	0	0	0	0	0
6/21/2024 15:15	21204	ECAR_T2	2	2	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
6/21/2024 15:15	44904	SCOT_T1	4	4	0	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
6/21/2024 15:15	21202	ECAR_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 15:16	42901	MIDD_T2	5	6	1	1.08	1.6	0.52	0	0	0	0	0	0	0	0
6/21/2024 15:16	52006	LING_T2	6	5	-1	0.97	0.4	-0.57	0	0	0	0	0	0	0	0
6/21/2024 15:16	45502	DERR_T2	72	46	-26	0.81	0.58	-0.23	0	0	0	0	0	0	0	0
6/21/2024 15:16	42903	MIDD_T2	2	2	0	0.75	1.05	0.3	0	0	0	0	0	0	0	0
6/21/2024 15:16	45501	DERR_T2	108	27	-81	0.59	0.41	-0.18	2.38	1.95	4	4	0	3600	3600	0
6/21/2024 15:16	42902	MIDD_T2	53	53	0	2.43	2.85	0.42	-0.07	-0.63	4	2	-2	1800	1200	-600
6/21/2024 15:16	52002	LING_T2	8	21	13	0.28	0.34	0.06	-0.21	-0.2	1	1	0	900	900	0
6/21/2024 15:17	45502	DERR_T2	72	46	-26	0.81	0.58	-0.23	0	0	0	0	0	0	0	0
6/21/2024 15:17	42903	MIDD_T2	2	2	0	0.75	1.05	0.3	0	0	0	0	0	0	0	0
6/21/2024 15:17	52002	LING_T2	8	21	13	0.28	0.34	0.06	-0.43	-0.39	2	2	0	1800	1800	0
6/21/2024 15:17	41801	GOCI_T2	4	5	1	0.58	0.23	-0.35	0	0	1	1	0	900	900	0
6/21/2024 15:17	52006	LING_T2	6	5	-1	0.97	0.4	-0.57	0	0	0	0	0	0	0	0
6/21/2024 15:17	41802	GOCI_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/21/2024 15:17	45501	DERR_T2	108	27	-81	0.59	0.41	-0.18	1.19	0.98	2	2	0	1800	1800	0
6/21/2024 15:17	42902	MIDD_T2	53	53	0	2.43	2.85	0.42	-0.03	-0.32	2	1	-1	900	600	-300
6/21/2024 15:17	42901	MIDD_T2	5	6	1	1.08	1.6	0.52	0	0	0	0	0	0	0	0
6/21/2024 15:17	13503	MCMI_T2	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
6/21/2024 15:18	42903	MIDD_T2	2	2	0	0.75	1.05	0.3	0	0	0	0	0	0	0	0
6/21/2024 15:18	42902	MIDD_T2	53	53	0	2.43	2.85	0.42	-0.03	-0.32	2	1	-1	900	600	-300
6/21/2024 15:18	52006	LING_T2	6	5	-1	0.97	0.4	-0.57	0	0	0	0	0	0	0	0
6/21/2024 15:18	52002	LING_T2	8	21	13	0.28	0.34	0.06	-0.21	-0.2	1	1	0	900	900	0
6/21/2024 15:18	64101	REFR_T1	12	14	2	3.57	3.45	-0.12	-0.34	-0.32	0	0	0	0	0	0
6/21/2024 15:18	42901	MIDD_T2	5	6	1	1.08	1.6	0.52	0	0	0	0	0	0	0	0
6/21/2024 15:19	41903	REED_T1	4	1	-3	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
6/21/2024 15:19	41901	REED_T1	12	13	1	0.41	0.49	0.08	-1.11	-1.12	1	1	0	900	900	0
6/21/2024 15:19	43202	MVIL_T2	1	0	-1	0.4	0	-0.4	-0.24	-0.24	0	0	0	0	0	0
6/21/2024 15:19	41902	REED_T1	66	64	-2	0.48	0.44	-0.04	0	0	0	0	0	0	0	0
6/21/2024 15:19	43201	MVIL_T2	3	4	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/21/2024 15:20	42903	MIDD_T2	2	2	0	0.75	1.05	0.3	0	0	0	0	0	0	0	0
6/21/2024 15:20	42902	MIDD_T2	53	53	0	2.43	2.85	0.42	-0.03	-0.32	2	1	-1	900	600	-300
6/21/2024 15:20	42901	MIDD_T2	5	6	1	1.08	1.6	0.52	0	0	0	0	0	0	0	0
6/21/2024 15:21	43202	MVIL_T2	1	0	-1	0.4	0	-0.4	-0.24	-0.25	0	0	0	0	0	0
6/21/2024 15:21	44701	MUNC_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/21/2024 15:21	48301	ORWI_T1	2	6	4	3.05	1.53	-1.52	0	0.01	1	1	0	900	900	0
6/21/2024 15:21	43201	MVIL_T2	3	4	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/21/2024 15:21	44703	MUNC_T2	30	55	25	1.32	1.03	-0.29	1.53	1.58	0	0	0	0	0	0
6/21/2024 15:21	44702	MUNC_T2	4	5	1	0.55	0.82	0.27	0	0	0	0	0	0	0	0
6/21/2024 15:22	43301	WATS_T2	3	3	0	0.73	0.63	-0.1	0	0	0	0	0	0	0	0
6/21/2024 15:22	43304	WATS_T2	22	12	-10	0.57	0.86	0.29	-0.84	-1	1	1	0	600	600	0
6/21/2024 15:23	66505	SMAN_T2	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
6/21/2024 15:23	66504	SMAN_T2	8	13	5	1.23	1.09	-0.14	0.23	0.26	1	1	0	1200	1200	0
6/21/2024 15:23	66503	SMAN_T2	16	19	3	0.69	0.72	0.03	0	0	0	0	0	0	0	0
6/21/2024 15:25	23401	HONE_T2	21	183	162	0.53	0.46	-0.07	0.04	0.1	0	0	0	0	0	0
6/21/2024 15:26	67602	WARW_T2	1	2	1	0.8	0.6	-0.2	0.53	0.57	2	2	0	1500	1500	0
6/21/2024 15:28	63401	HONY_T1	1	0	-1	0.4	0	-0.4	1.1	1.09	2	2	0	1200	1200	0
6/21/2024 15:29	29402	BELT_T1	44	43	-1	1.22	1.32	0.1	0	0	0	0	0	0	0	0
6/21/2024 15:29	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/21/2024 15:30	64201	KINZ_T1	6	1	-5	0.37	0	-0.37	0	0	0	0	0	0	0	0
6/21/2024 15:30	64204	KINZ_T1	9	1	-8	0.33	0.8	0.47	0	0	0	0	0	0	0	0
6/21/2024 15:30	64203	KINZ_T1	16	6	-10	0.96	1.2	0.24	0.45	0.33	3	3	0	2100	2100	0
6/21/2024 15:30	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/21/2024 15:31	52002	LING_T2	20	10	-10	0.43	0.78	0.35	-0.2	-0.17	1	1	0	900	900	0
6/21/2024 15:31	52006	LING_T2	3	5	2	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
6/21/2024 15:31	52004	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 15:31	63401	HONY_T1	0	0	0	0	0	0	0.55	0.54	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/21/2024 15:32	56501	ROCK_T2	3	10	7	0.43	0.28	-0.15	-1.76	-1.75	0	0	0	0	0	0
6/21/2024 15:32	43201	MVIL_T2	4	4	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/21/2024 15:32	56504	ROCK_T2	33	22	-11	1.05	0.59	-0.46	0	0	0	0	0	0	0	0
6/21/2024 15:32	46901	MNTG_T2	7	4	-3	0.19	0.1	-0.09	1.21	1.73	2	2	0	2400	2400	0
6/21/2024 15:32	46903	MNTG_T2	4	6	2	0.53	0.33	-0.2	0	0	0	0	0	0	0	0
6/21/2024 15:32	46902	MNTG_T2	10	1	-9	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
6/21/2024 15:32	43202	MVIL_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
6/21/2024 15:33	13503	MCMI_T2	0	1	1	0	0.2	0.2	-0.38	-0.38	0	0	0	0	0	0
6/21/2024 15:34	59302	MCAL_T1	47	45	-2	1.61	1.58	-0.03	-0.85	-0.86	1	1	0	600	600	0
6/21/2024 15:34	64101	REFR_T1	13	12	-1	3.39	2.52	-0.87	-0.32	-0.31	0	0	0	0	0	0
6/21/2024 15:34	59301	MCAL_T1	56	40	-16	0.63	0.74	0.11	0	0	0	0	0	0	0	0
6/21/2024 15:37	46205	DANV_T2	4	16	12	0.9	0.51	-0.39	0	0	0	0	0	0	0	0
6/21/2024 15:37	46206	DANV_T2	92	104	12	1.09	1.17	0.08	1.6	1.6	1	1	0	1200	1200	0
6/21/2024 15:37	51006	NHAR_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/21/2024 15:37	51004	NHAR_T1	12	6	-6	1.13	3.6	2.47	0	0	0	0	0	0	0	0
6/21/2024 15:37	46204	DANV_T2	150	169	19	0.93	0.7	-0.23	0	0	0	0	0	0	0	0
6/21/2024 15:37	51003	NHAR_T1	2	3	1	0.15	0	-0.15	-2.08	-2.21	1	1	0	1200	1200	0
6/21/2024 15:37	14402	SSLA_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/21/2024 15:37	14403	SSLA_T1	8	12	4	0.89	0.8	-0.09	0.95	0.97	2	2	0	1200	1200	0
6/21/2024 15:37	46203	DANV_T2	11	6	-5	0.48	0.25	-0.23	0	0	0	0	0	0	0	0
6/21/2024 15:37	14401	SSLA_T1	2	4	2	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/21/2024 15:37	14404	SSLA_T1	2	2	0	1.55	2.7	1.15	0	0	0	0	0	0	0	0
6/21/2024 15:38	46206	DANV_T2	92	104	12	1.09	1.17	0.08	1.6	1.6	1	1	0	1200	1200	0
6/21/2024 15:38	15001	BLMO_T1	7	28	21	0.46	0.46	0	0	0	0	0	0	0	0	0
6/21/2024 15:38	46203	DANV_T2	11	6	-5	0.48	0.25	-0.23	0	0	0	0	0	0	0	0
6/21/2024 15:38	46205	DANV_T2	4	16	12	0.9	0.51	-0.39	0	0	0	0	0	0	0	0
6/21/2024 15:38	46204	DANV_T2	150	169	19	0.93	0.7	-0.23	0	0	0	0	0	0	0	0
6/21/2024 15:39	15001	BLMO_T1	7	28	21	0.46	0.46	0	0	0	0	0	0	0	0	0
6/21/2024 15:40	15001	BLMO_T1	7	28	21	0.46	0.46	0	0	0	0	0	0	0	0	0
6/21/2024 15:42	15001	BLMO_T1	7	28	21	0.46	0.46	0	0	0	0	0	0	0	0	0
6/21/2024 15:43	47402	PENS_T1	10	9	-1	0.63	0.46	-0.17	0	0	0	0	0	0	0	0
6/21/2024 15:43	47401	PENS_T1	50	66	16	0.72	0.82	0.1	0.64	0.65	0	0	0	0	0	0
6/21/2024 15:43	47403	PENS_T1	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/21/2024 15:44	47402	PENS_T1	10	9	-1	0.63	0.46	-0.17	0	0	0	0	0	0	0	0
6/21/2024 15:44	47001	HUGH_T2	1	1	0	0.7	0	-0.7	-0.72	-0.68	1	1	0	900	900	0
6/21/2024 15:44	47403	PENS_T1	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/21/2024 15:44	47401	PENS_T1	50	66	16	0.72	0.82	0.1	0.64	0.65	0	0	0	0	0	0
6/21/2024 15:47	47401	PENS_T1	60	65	5	0.69	0.91	0.22	1.27	1.3	0	0	0	0	0	0
6/21/2024 15:47	26402	INOR_T1	53	54	1	0.51	0.48	-0.03	0	0	0	0	0	0	0	0
6/21/2024 15:47	47402	PENS_T1	8	13	5	0.76	0.46	-0.3	0	0	0	0	0	0	0	0
6/21/2024 15:47	45702	LIND_T2	2	2	0	1.45	1.4	-0.05	-1.03	-1.03	0	0	0	0	0	0
6/21/2024 15:47	47403	PENS_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/21/2024 15:47	26401	INOR_T1	53	67	14	0.65	0.66	0.01	1.37	1.34	0	0	0	0	0	0
6/21/2024 15:48	47401	PENS_T1	60	65	5	0.69	0.91	0.22	0.64	0.65	0	0	0	0	0	0
6/21/2024 15:48	52006	LING_T2	5	0	-5	0.42	0.4	-0.02	0	0	0	0	0	0	0	0
6/21/2024 15:48	64304	LINC_T2	3	3	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
6/21/2024 15:48	47402	PENS_T1	8	13	5	0.76	0.46	-0.3	0	0	0	0	0	0	0	0
6/21/2024 15:48	52002	LING_T2	10	5	-5	0.79	0.74	-0.05	0	0	0	0	0	0	0	0
6/21/2024 15:48	52004	LING_T2	0	1	1	0	0.2	0.2	0.35	0.35	0	0	0	0	0	0
6/21/2024 15:48	64302	LINC_T2	86	137	51	0.51	0.4	-0.11	2.09	2.12	0	0	0	0	0	0
6/21/2024 15:48	47403	PENS_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/21/2024 15:48	45502	DERR_T2	40	18	-22	0.58	0.4	-0.18	0	0	0	0	0	0	0	0
6/21/2024 15:48	45501	DERR_T2	8	7	-1	0.43	0.15	-0.28	0.97	0.95	2	2	0	1800	1800	0
6/21/2024 15:48	51401	LYKE_T1	1	1	0	0.4	0	-0.4	0.59	0.6	0	0	0	0	0	0
6/21/2024 15:49	60502	NMAN_T2	0	5	5	0	0.12	0.12	-0.47	-0.44	0	0	0	0	0	0
6/21/2024 15:49	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 15:49	60501	NMAN_T2	3	0	-3	4.03	4.17	0.14	0	0	0	0	0	0	0	0
6/21/2024 15:50	66505	SMAN_T2	2	2	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
6/21/2024 15:50	66503	SMAN_T2	19	24	5	0.8	0.59	-0.21	0	0	0	0	0	0	0	0
6/21/2024 15:50	66504	SMAN_T2	8	27	19	1.04	0.51	-0.53	0.26	0.32	1	1	0	1200	1200	0
6/21/2024 15:53	45302	WBER_T2	10	25	15	0.35	0.34	-0.01	1.94	1.95	0	0	0	0	0	0
6/21/2024 15:53	66503	SMAN_T2	19	24	5	0.8	0.59	-0.21	0	0	0	0	0	0	0	0
6/21/2024 15:53	66504	SMAN_T2	8	27	19	1.04	0.51	-0.53	0.65	0.68	2	2	0	2400	2400	0
6/21/2024 15:53	66505	SMAN_T2	2	2	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
6/21/2024 15:54	45302	WBER_T2	10	25	15	0.35	0.34	-0.01	1.94	1.95	0	0	0	0	0	0
6/21/2024 15:55	20401	ASHF_T2	48	89	41	0.62	0.62	0	0	0	0	0	0	0	0	0
6/21/2024 15:55	20402	ASHF_T2	204	245	41	0.68	0.63	-0.05	0	0	0	0	0	0	0	0
6/21/2024 15:55	56803	BENV_T1	10	14	4	3.48	3.23	-0.25	0	0	0	0	0	0	0	0
6/21/2024 15:55	20403	ASHF_T2	72	117	45	0.81	0.79	-0.02	0.27	0.3	0	0	0	0	0	0
6/21/2024 15:55	56801	BENV_T1	2	0	-2	1.1	0	-1.1	-0.78	-0.76	4	4	0	2400	2400	0
6/21/2024 15:58	56803	BENV_T1	10	14	4	3.48	3.23	-0.25	0	0	0	0	0	0	0	0
6/21/2024 15:58	56801	BENV_T1	2	0	-2	1.1	0	-1.1	-1.18	-1.15	6	6	0	3600	3600	0
6/21/2024 15:59	56801	BENV_T1	2	0	-2	1.1	0	-1.1	-0.39	-0.38	2	2	0	1200	1200	0
6/21/2024 15:59	56803	BENV_T1	10	14	4	3.48	3.23	-0.25	0	0	0	0	0	0	0	0
6/21/2024 15:59	63804	HEMP_T1	1	1	0	8.7	8.5	-0.2	0	0	0	0	0	0	0	0
6/21/2024 15:59	53902	HALI_T2	1	2	1	3.4	4.1	0.7	0	0	0	0	0	0	0	0
6/21/2024 15:59	10801	CHHI_T1	212	216	4	2.61	2.61	0	0	0	3	3	0	2100	2100	0
6/21/2024 15:59	63802	HEMP_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
6/21/2024 15:59	53903	HALI_T2	0	2	2	0	0.3	0.3	0.2	0.2	0	0	0	0	0	0
6/21/2024 16:00	53903	HALI_T2	2	2	0	0.3	0.35	0.05	0.4	0.41	0	0	0	0	0	0
6/21/2024 16:00	53902	HALI_T2	1	2	1	4.1	3.9	-0.2	0	0	0	0	0	0	0	0
6/21/2024 16:00	56801	BENV_T1	0	1	1	0	0	0	-0.39	-0.38	2	2	0	1200	1200	0
6/21/2024 16:00	56803	BENV_T1	12	13	1	2.05	2.67	0.62	0	0	0	0	0	0	0	0
6/21/2024 16:00	64402	LAND_T2	1	0	-1	0.1	0	-0.1	-0.93	0.11	1	1	0	600	600	0
6/21/2024 16:05	64101	REFR_T1	11	14	3	2.53	2.74	0.21	-0.3	-0.3	0	0	0	0	0	0
6/21/2024 16:07	61102	BERK_T5	0	0	0	0	0	0	0.06	0.03	2	2	0	1500	1500	0
6/21/2024 16:07	54205	PENN_T1	20	3	-17	0.1	0.1	0	0	0	0	0	0	0	0	0
6/21/2024 16:07	54201	PENN_T1	16	19	3	0.39	0.4	0.01	0	0	0	0	0	0	0	0
6/21/2024 16:07	61101	BERK_T5	18	19	1	1.12	1.02	-0.1	0	0	0	0	0	0	0	0
6/21/2024 16:07	65601	QVIL_T2	11	22	11	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
6/21/2024 16:07	65602	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/21/2024 16:07	65603	QVIL_T2	4	5	1	0.33	0.5	0.17	-0.23	-0.34	0	0	0	0	0	0
6/21/2024 16:07	65604	QVIL_T2	7	19	12	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/21/2024 16:07	54203	PENN_T1	6	6	0	0.83	0.92	0.09	-0.49	-0.46	1	1	0	600	600	0
6/21/2024 16:08	61101	BERK_T5	18	19	1	1.12	1.02	-0.1	0	0	0	0	0	0	0	0
6/21/2024 16:08	54203	PENN_T1	6	6	0	0.83	0.92	0.09	0	0	0	0	0	0	0	0
6/21/2024 16:08	55101	WERT_T1	19	164	145	0.52	0.72	0.2	-1.63	-0.92	4	4	0	3300	3300	0
6/21/2024 16:08	44701	MUNC_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/21/2024 16:08	44702	MUNC_T2	8	8	0	0.75	1.21	0.46	0	0	0	0	0	0	0	0
6/21/2024 16:08	55103	WERT_T1	1	1	0	0.4	2.3	1.9	0	0	0	0	0	0	0	0
6/21/2024 16:08	44703	MUNC_T2	54	72	18	1.14	1.08	-0.06	1.65	1.63	0	0	0	0	0	0
6/21/2024 16:08	61102	BERK_T5	0	0	0	0	0	0	0.06	0.03	2	2	0	1500	1500	0
6/21/2024 16:08	54205	PENN_T1	20	3	-17	0.1	0.1	0	0	0	0	0	0	0	0	0
6/21/2024 16:08	54201	PENN_T1	16	19	3	0.39	0.4	0.01	-1.07	-1.13	0	0	0	0	0	0
6/21/2024 16:09	55101	WERT_T1	19	164	145	0.52	0.72	0.2	-1.63	-0.92	4	4	0	3300	3300	0
6/21/2024 16:09	61101	BERK_T5	18	19	1	1.12	1.02	-0.1	0	0	0	0	0	0	0	0
6/21/2024 16:09	27201	YATE_T1	22	21	-1	0.96	0.41	-0.55	-0.17	-0.15	0	0	0	0	0	0
6/21/2024 16:09	27205	YATE_T1	4	4	0	0.83	0.5	-0.33	0	0	0	0	0	0	0	0
6/21/2024 16:09	55103	WERT_T1	1	1	0	0.4	2.3	1.9	0	0	0	0	0	0	0	0
6/21/2024 16:09	61102	BERK_T5	0	0	0	0	0	0	0.19	0.1	6	6	0	4500	4500	0
6/21/2024 16:10	61102	BERK_T5	0	0	0	0	0	0	0.06	0.03	2	2	0	1500	1500	0
6/21/2024 16:10	64204	KINZ_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/21/2024 16:10	64203	KINZ_T1	1	1	0	1.2	0.6	-0.6	-0.78	-0.74	3	3	0	2100	2100	0
6/21/2024 16:10	61101	BERK_T5	18	19	1	1.12	1.02	-0.1	0	0	0	0	0	0	0	0
6/21/2024 16:10	55103	WERT_T1	1	1	0	0.4	2.3	1.9	0	0	0	0	0	0	0	0
6/21/2024 16:10	56803	BENV_T1	12	13	1	2.05	2.67	0.62	0	0	0	0	0	0	0	0
6/21/2024 16:10	55101	WERT_T1	19	164	145	0.52	0.72	0.2	-3.25	-1.84	8	8	0	6600	6600	0
6/21/2024 16:10	56801	BENV_T1	0	1	1	0	0	0	-0.38	-0.37	2	2	0	1200	1200	0
6/21/2024 16:11	55103	WERT_T1	1	1	0	0.4	2.3	1.9	0	0	0	0	0	0	0	0
6/21/2024 16:11	56801	BENV_T1	0	1	1	0	0	0	-0.38	-0.37	2	2	0	1200	1200	0
6/21/2024 16:11	55101	WERT_T1	19	164	145	0.52	0.72	0.2	-4.88	-2.76	12	12	0	9900	9900	0
6/21/2024 16:11	56803	BENV_T1	12	13	1	2.05	2.67	0.62	0	0	0	0	0	0	0	0
6/21/2024 16:12	61101	BERK_T5	18	19	1	1.12	1.02	-0.1	0	0	0	0	0	0	0	0
6/21/2024 16:12	61102	BERK_T5	0	0	0	0	0	0	0.06	0.03	2	2	0	1500	1500	0
6/21/2024 16:13	64204	KINZ_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/21/2024 16:13	64203	KINZ_T1	1	1	0	1.2	0.6	-0.6	-0.78	-0.74	3	3	0	2100	2100	0
6/21/2024 16:14	47402	PENS_T1	6	14	8	0.42	0.67	0.25	0	0	0	0	0	0	0	0
6/21/2024 16:14	56803	BENV_T1	12	13	1	2.05	2.67	0.62	0	0	0	0	0	0	0	0
6/21/2024 16:14	56801	BENV_T1	0	1	1	0	0	0	-1.53	-1.49	8	8	0	4800	4800	0
6/21/2024 16:14	47401	PENS_T1	42	68	26	0.97	0.79	-0.18	0.71	0.71	0	0	0	0	0	0
6/21/2024 16:15	56803	BENV_T1	9	19	10	2.68	2.41	-0.27	0	0	0	0	0	0	0	0
6/21/2024 16:15	47402	PENS_T1	12	9	-3	0.57	1.19	0.62	0	0	0	0	0	0	0	0
6/21/2024 16:15	47401	PENS_T1	57	90	33	0.74	0.81	0.07	0.71	0.71	0	0	0	0	0	0
6/21/2024 16:15	56801	BENV_T1	0	6	6	0	0.3	0.3	-0.76	-0.75	4	4	0	2400	2400	0
6/21/2024 16:20	55001	NEWP_T1	52	86	34	1.1	1.3	0.2	0.09	0.09	0	0	0	0	0	0
6/21/2024 16:21	55001	NEWP_T1	52	86	34	1.1	1.3	0.2	0.09	0.09	0	0	0	0	0	0
6/21/2024 16:21	45302	WBER_T2	25	34	9	0.58	0.67	0.09	1.95	1.95	0	0	0	0	0	0
6/21/2024 16:21	45303	WBER_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 16:22	58706	ROSE_T2	9	15	6	0.94	1.03	0.09	0.68	0.71	1	1	0	600	600	0
6/21/2024 16:22	58701	ROSE_T2	3	7	4	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
6/21/2024 16:22	58705	ROSE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 16:22	58704	ROSE_T2	1	1	0	3.3	0	-3.3	0	0	0	0	0	0	0	0
6/21/2024 16:24	45302	WBER_T2	25	34	9	0.58	0.67	0.09	1.95	1.95	0	0	0	0	0	0
6/21/2024 16:24	45303	WBER_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 16:26	10601	BLGL_T1	32	8	-24	0.53	0.28	-0.25	0	0	0	0	0	0	0	0
6/21/2024 16:26	10603	BLGL_T1	335	379	44	1.57	1.77	0.2	-0.13	-0.1	0	0	0	0	0	0
6/21/2024 16:29	62102	ELAN_T1	0	1	1	0	0	0	0.24	0.42	0	0	0	0	0	0
6/21/2024 16:29	62104	ELAN_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 16:30	56504	ROCK_T2	10	22	12	0.7	0.98	0.28	0	0	0	0	0	0	0	0
6/21/2024 16:30	51401	LYKE_T1	1	1	0	0.1	0	-0.1	0.59	0.59	0	0	0	0	0	0
6/21/2024 16:30	56501	ROCK_T2	9	9	0	0.29	0.39	0.1	-1.73	-1.73	0	0	0	0	0	0
6/21/2024 16:31	51401	LYKE_T1	1	1	0	0.1	0	-0.1	0.59	0.59	0	0	0	0	0	0
6/21/2024 16:35	56501	ROCK_T2	9	9	0	0.29	0.39	0.1	-1.73	-1.73	0	0	0	0	0	0
6/21/2024 16:35	46205	DANV_T2	3	3	0	1	0.67	-0.33	0	0	0	0	0	0	0	0
6/21/2024 16:35	56504	ROCK_T2	10	22	12	0.7	0.98	0.28	0	0	0	0	0	0	0	0
6/21/2024 16:35	46204	DANV_T2	120	103	-17	0.56	0.41	-0.15	0	0	0	0	0	0	0	0
6/21/2024 16:35	46206	DANV_T2	76	78	2	0.93	0.8	-0.13	1.59	1.53	1	1	0	1200	1200	0
6/21/2024 16:35	46203	DANV_T2	5	2	-3	0.44	0	-0.44	0	0	0	0	0	0	0	0
6/21/2024 16:40	45602	WOOL_T1	8	11	3	1.28	0.55	-0.73	1.11	1.11	0	0	0	0	0	0
6/21/2024 16:46	43202	MVIL_T2	1	0	-1	0.3	0	-0.3	-0.26	-0.27	0	0	0	0	0	0
6/21/2024 16:46	43201	MVIL_T2	3	4	1	0.13	0	-0.13	0	0	0	0	0	0	0	0
6/21/2024 16:46	52006	LING_T2	5	7	2	0.42	0.43	0.01	0	0	0	0	0	0	0	0
6/21/2024 16:46	52004	LING_T2	1	5	4	0.9	0.8	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/21/2024 16:46	52002	LING_T2	24	42	18	0.6	0.46	-0.14	-0.08	-0.07	1	1	0	900	900	0
6/21/2024 16:50	65604	QVIL_T2	18	22	4	0.54	0.58	0.04	0	0	0	0	0	0	0	0
6/21/2024 16:50	65601	QVIL_T2	22	24	2	0.32	0.35	0.03	0.61	0.62	1	1	0	900	900	0
6/21/2024 16:50	65603	QVIL_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/21/2024 16:50	65602	QVIL_T2	4	9	5	0.33	0.37	0.04	0	0	0	0	0	0	0	0
6/21/2024 16:51	57401	SPAN_T1	1	0	-1	0.4	0	-0.4	-4.01	-3.62	6	6	0	4800	4800	0
6/21/2024 16:51	57403	SPAN_T1	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/21/2024 16:52	57403	SPAN_T1	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/21/2024 16:52	65603	QVIL_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/21/2024 16:52	65604	QVIL_T2	18	22	4	0.54	0.58	0.04	1.74	1.76	0	0	0	0	0	0
6/21/2024 16:52	65803	RTWN_T2	5	5	0	0.18	0.2	0.02	0	0	0	0	0	0	0	0
6/21/2024 16:52	65802	RTWN_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
6/21/2024 16:52	65601	QVIL_T2	22	24	2	0.32	0.35	0.03	0	0	0	0	0	0	0	0
6/21/2024 16:52	57401	SPAN_T1	1	0	-1	0.4	0	-0.4	-5.44	-5.86	9	9	0	7200	7200	0
6/21/2024 16:52	65602	QVIL_T2	4	9	5	0.33	0.37	0.04	0	0	0	0	0	0	0	0
6/21/2024 16:53	57401	SPAN_T1	1	0	-1	0.4	0	-0.4	-1.81	-1.95	3	3	0	2400	2400	0
6/21/2024 16:53	57403	SPAN_T1	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/21/2024 16:58	15001	BLMO_T1	35	107	72	0.36	0.35	-0.01	0	0	0	0	0	0	0	0
6/21/2024 17:01	47402	PENS_T1	2	2	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
6/21/2024 17:01	47401	PENS_T1	63	44	-19	0.55	0.82	0.27	0.68	0.65	0	0	0	0	0	0
6/21/2024 17:02	52006	LING_T2	7	5	-2	0.67	0.48	-0.19	0	0	0	0	0	0	0	0
6/21/2024 17:02	52002	LING_T2	42	38	-4	0.5	0.33	-0.17	-0.07	-0.06	1	1	0	900	900	0
6/21/2024 17:02	52004	LING_T2	2	6	4	0.95	0.78	-0.17	0	0	0	0	0	0	0	0
6/21/2024 17:03	47401	PENS_T1	63	44	-19	0.55	0.82	0.27	0.68	0.65	0	0	0	0	0	0
6/21/2024 17:03	47402	PENS_T1	2	2	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
6/21/2024 17:06	43304	WATS_T2	39	67	28	0.61	0.53	-0.08	-1.1	-1.11	1	1	0	600	600	0
6/21/2024 17:06	43301	WATS_T2	4	8	4	0.83	0.7	-0.13	0	0	0	0	0	0	0	0
6/21/2024 17:07	13903	SEID_T1	46	45	-1	0.92	0.85	-0.07	0	0	0	0	0	0	0	0
6/21/2024 17:07	13904	SEID_T1	50	63	13	1.02	0.65	-0.37	-0.26	-0.32	0	0	0	0	0	0
6/21/2024 17:07	13902	SEID_T1	5	8	3	0.46	0.13	-0.33	0	0	0	0	0	0	0	0
6/21/2024 17:08	13904	SEID_T1	50	63	13	1.02	0.65	-0.37	-0.26	-0.32	0	0	0	0	0	0
6/21/2024 17:08	43301	WATS_T2	4	8	4	0.83	0.7	-0.13	0	0	0	0	0	0	0	0
6/21/2024 17:08	43304	WATS_T2	39	67	28	0.61	0.53	-0.08	-1.1	-1.11	1	1	0	600	600	0
6/21/2024 17:08	13902	SEID_T1	5	8	3	0.46	0.13	-0.33	0	0	0	0	0	0	0	0
6/21/2024 17:08	13903	SEID_T1	46	45	-1	0.92	0.85	-0.07	0	0	0	0	0	0	0	0
6/21/2024 17:10	43304	WATS_T2	39	67	28	0.61	0.53	-0.08	-1.1	-1.11	1	1	0	600	600	0
6/21/2024 17:10	43301	WATS_T2	4	8	4	0.83	0.7	-0.13	0	0	0	0	0	0	0	0
6/21/2024 17:10	67804	WLAN_T1	10	10	0	1.81	1.95	0.14	0	0	0	0	0	0	0	0
6/21/2024 17:10	67801	WLAN_T1	61	56	-5	0.55	0.61	0.06	-0.66	-0.66	0	0	0	0	0	0
6/21/2024 17:11	45602	WOOL_T1	10	13	3	0.56	0.4	-0.16	1.12	1.12	0	0	0	0	0	0
6/21/2024 17:12	10805	CHHI_T2	122	122	0	1.32	1.13	-0.19	0	0	1	1	0	600	600	0
6/21/2024 17:16	63404	HONY_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 17:16	63401	HONY_T1	0	0	0	0	0	0	0.42	0.4	1	1	0	600	600	0
6/21/2024 17:17	64802	MONE_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
6/21/2024 17:17	64801	MONE_T2	59	70	11	0.81	0.67	-0.14	0	0	0	0	0	0	0	0
6/21/2024 17:17	51003	NHAR_T1	3	6	3	0.1	0.8	0.7	0	0	0	0	0	0	0	0
6/21/2024 17:17	51004	NHAR_T1	17	19	2	1.21	1.36	0.15	-0.85	-0.86	0	0	0	0	0	0
6/21/2024 17:18	51401	LYKE_T1	1	0	-1	0.3	0	-0.3	1.17	1.16	0	0	0	0	0	0
6/21/2024 17:21	64204	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/21/2024 17:21	64303	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 17:21	64305	LINC_T1	1	1	0	0.5	0.6	0.1	-0.25	-0.17	0	0	0	0	0	0
6/21/2024 17:21	64203	KINZ_T1	1	1	0	0.3	0.6	0.3	-1.04	-0.94	3	3	0	2100	2100	0
6/21/2024 17:21	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 17:21	64301	LINC_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/21/2024 17:22	51003	NHAR_T1	3	6	3	0.1	0.8	0.7	0	0	0	0	0	0	0	0
6/21/2024 17:22	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 17:22	51004	NHAR_T1	17	19	2	1.21	1.36	0.15	-0.86	-0.86	0	0	0	0	0	0
6/21/2024 17:22	64204	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/21/2024 17:22	64303	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 17:22	64301	LINC_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/21/2024 17:22	64203	KINZ_T1	1	1	0	0.3	0.6	0.3	-0.94	-1.04	3	3	0	2100	2100	0
6/21/2024 17:22	64305	LINC_T1	1	1	0	0.5	0.6	0.1	-0.17	-0.21	0	0	0	0	0	0
6/21/2024 17:29	52403	GRPA_T2	90	83	-7	1.02	1.11	0.09	-0.34	-0.31	0	0	0	0	0	0
6/21/2024 17:29	52402	GRPA_T2	100	106	6	1.62	1.1	-0.52	0	0	0	0	0	0	0	0
6/21/2024 17:29	52404	GRPA_T2	4	10	6	0.33	0.35	0.02	0	0	0	0	0	0	0	0
6/21/2024 17:29	52401	GRPA_T2	97	107	10	1.13	1.11	-0.02	0	0	0	0	0	0	0	0
6/21/2024 17:31	52402	GRPA_T2	94	109	15	1.1	1.6	0.5	0	0	0	0	0	0	0	0
6/21/2024 17:31	52403	GRPA_T2	76	96	20	1.16	1.35	0.19	-0.34	-0.31	0	0	0	0	0	0
6/21/2024 17:31	52404	GRPA_T2	2	12	10	0.35	0.38	0.03	0	0	0	0	0	0	0	0
6/21/2024 17:31	52401	GRPA_T2	94	105	11	1.09	1.5	0.41	0	0	0	0	0	0	0	0
6/21/2024 17:32	47402	PENS_T1	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
6/21/2024 17:32	47403	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/21/2024 17:32	47401	PENS_T1	34	63	29	0.86	0.74	-0.12	1.12	0.97	0	0	0	0	0	0
6/21/2024 17:33	47403	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/21/2024 17:33	47402	PENS_T1	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
6/21/2024 17:33	45502	DERR_T2	35	33	-2	0.54	0.48	-0.06	0	0	0	0	0	0	0	0
6/21/2024 17:33	45501	DERR_T2	40	52	12	0.39	0.52	0.13	0.89	0.89	2	2	0	1800	1800	0
6/21/2024 17:33	47401	PENS_T1	34	63	29	0.86	0.74	-0.12	1.12	0.97	0	0	0	0	0	0
6/21/2024 17:34	51401	LYKE_T1	0	0	0	0	0	0	1.16	1.15	0	0	0	0	0	0
6/21/2024 17:40	29402	BELT_T1	118	106	-12	1.07	0.9	-0.17	0	0	0	0	0	0	0	0
6/21/2024 17:40	29401	BELT_T1	2	2	0	0.2	0.2	0	0	0	1	1	0	900	900	0
6/21/2024 17:44	61703	ELIZ_T1	55	72	17	0.46	0.41	-0.05	0	0	0	0	0	0	0	0
6/21/2024 17:44	61701	ELIZ_T1	3	13	10	0.57	0.23	-0.34	2.95	3.29	0	0	0	0	0	0
6/21/2024 17:48	65402	MARI_T1	26	28	2	0.77	1.23	0.46	0	0	0	0	0	0	0	0
6/21/2024 17:48	65401	MARI_T1	19	21	2	3.49	3.56	0.07	0	0	0	0	0	0	0	0
6/21/2024 17:49	61701	ELIZ_T1	4	15	11	0.23	0.25	0.02	0	0	0	0	0	0	0	0
6/21/2024 17:49	48302	ORWI_T2	153	123	-30	0.63	0.55	-0.08	0.23	0.21	0	0	0	0	0	0
6/21/2024 17:49	61703	ELIZ_T1	64	62	-2	0.46	0.5	0.04	-2	-1.99	2	2	0	2100	2100	0
6/21/2024 17:50	66701	STRA_T1	5	8	3	0.96	1.12	0.16	0	0	0	0	0	0	0	0
6/21/2024 17:50	66703	STRA_T1	20	11	-9	0.27	0.24	-0.03	0.06	0.03	0	0	0	0	0	0
6/21/2024 17:54	66504	SMAN_T2	5	6	1	0.56	1.1	0.54	0	0	0	0	0	0	0	0
6/21/2024 17:54	66505	SMAN_T2	3	2	-1	0.37	0.2	-0.17	0.23	0.29	3	3	0	1700	1700	0
6/21/2024 17:54	66503	SMAN_T2	37	35	-2	0.92	1.01	0.09	0	0	0	0	0	0	0	0
6/21/2024 17:55	49804	UNIV_T1	17	14	-3	0.96	0.93	-0.03	1.83	1.87	0	0	0	0	0	0
6/21/2024 17:56	57502	LAWN_T3	35	34	-1	0.54	0.35	-0.19	0	0	0	0	0	0	0	0
6/21/2024 17:56	57501	LAWN_T3	10	8	-2	1.13	0.7	-0.43	0	0	0	0	0	0	0	0
6/21/2024 17:56	57506	LAWN_T3	198	112	-86	0.41	0.62	0.21	2.08	1.99	1	1	0	600	600	0
6/21/2024 17:56	57505	LAWN_T3	54	49	-5	0.56	0.41	-0.15	0	0	0	0	0	0	0	0
6/21/2024 17:58	46001	BERW_T1	29	21	-8	0.64	0.57	-0.07	0.43	0.41	0	0	0	0	0	0
6/21/2024 17:59	58803	COCO_T1	10	14	4	0.38	0.45	0.07	-0.12	-0.14	1	1	0	600	600	0
6/21/2024 18:00	46001	BERW_T1	21	16	-5	0.6	0.38	-0.22	0.43	0.41	0	0	0	0	0	0
6/21/2024 18:00	47401	HUGH_T2	0	1	1	0	0.4	0.4	-0.68	-0.68	1	1	0	900	900	0
6/21/2024 18:04	44702	MUNC_T2	8	8	0	1.09	0.53	-0.56	0	0	0	0	0	0	0	0
6/21/2024 18:04	44703	MUNC_T2	56	54	-2	1.39	1.19	-0.2	1.58	1.67	0	0	0	0	0	0
6/21/2024 18:04	44701	MUNC_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/21/2024 18:05	46102	MACI_T1	1	0	-1	0.4	0	-0.4	1.22	1.22	0	0	0	0	0	0
6/21/2024 18:06	48302	ORWI_T2	123	99	-24	0.74	0.47	-0.27	0	0	0	0	0	0	0	0
6/21/2024 18:06	48303	ORWI_T2	0	0	0	0	0	0	1.08	1.07	0	0	0	0	0	0
6/21/2024 18:10	61801	EELI_T2	16	17	1	0.79	0.39	-0.4	0.07	0.07	1	1	0	600	600	0
6/21/2024 18:10	61101	BERK_T5	13	19	6	0.72	0.71	-0.01	-0.72	-0.74	0	0	0	0	0	0
6/21/2024 18:10	61802	EELI_T2	8	8	0	1.48	1.2	-0.28	0	0	0	0	0	0	0	0
6/21/2024 18:10	15103	UPHA_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
6/21/2024 18:10	15104	UPHA_T2	18	17	-1	1.22	1.29	0.07	0	0	0	0	0	0	0	0
6/21/2024 18:11	61303	EARL_T1	1	1	0	2.7	0.6	-2.1	0	0	0	0	0	0	0	0
6/21/2024 18:11	29401	BELT_T1	2	12	10	0.15	0.18	0.03	0	0	1	1	0	900	900	0
6/21/2024 18:11	61302	EARL_T1	1	1	0	1.2	1.6	0.4	0	0	0	0	0	0	0	0
6/21/2024 18:11	29402	BELT_T1	100	140	40	0.89	0.76	-0.13	0	0	0	0	0	0	0	0
6/21/2024 18:11	61304	EARL_T1	2	8	6	0.15	0.21	0.06	0.18	0.14	2	2	0	1200	1200	0
6/21/2024 18:12	61802	EELI_T2	8	8	0	1.48	1.2	-0.28	0	0	0	0	0	0	0	0
6/21/2024 18:12	57506	LAWN_T3	112	33	-79	0.4	0.52	0.12	0	0	0	0	0	0	0	0
6/21/2024 18:12	61801	EELI_T2	16	17	1	0.79	0.39	-0.4	0.07	0.07	1	1	0	600	600	0
6/21/2024 18:12	57502	LAWN_T3	31	34	3	0.51	0.42	-0.09	0	0	0	0	0	0	0	0
6/21/2024 18:12	57501	LAWN_T3	8	4	-4	0.89	0.6	-0.29	0	0	0	0	0	0	0	0
6/21/2024 18:12	57505	LAWN_T3	48	30	-18	0.58	0.45	-0.13	-0.59	-0.6	0	0	0	0	0	0
6/21/2024 18:14	47401	PENS_T1	59	82	23	0.55	0.55	0	0.73	0.71	0	0	0	0	0	0
6/21/2024 18:14	47403	PENS_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/21/2024 18:14	47402	PENS_T1	2	4	2	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/21/2024 18:16	47402	PENS_T1	2	2	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/21/2024 18:16	47403	PENS_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/21/2024 18:16	47401	PENS_T1	69	79	10	0.62	0.53	-0.09	0.73	0.71	0	0	0	0	0	0
6/21/2024 18:21	22701	MINO_T1	0	0	0	0	0	0	0.06	0.01	1	1	0	600	600	0
6/21/2024 18:22	58003	WCAR_T1	3	2	-1	0.43	0.6	0.17	0.67	0.65	1	1	0	600	600	0
6/21/2024 18:22	65205	PRIN_T1	2	10	8	0.65	0.7	0.05	0	0	0	0	0	0	0	0
6/21/2024 18:23	57101	SPHI_T2	0	6	6	0	0.18	0.18	0	0	0	0	0	0	0	0
6/21/2024 18:23	57104	SPHI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/21/2024 18:23	57106	SPHI_T2	3	3	0	0.77	0.73	-0.04	0	0	0	0	0	0	0	0
6/21/2024 18:23	57103	SPHI_T2	0	0	0	0	0	0	0.13	0.13	1	1	0	600	600	0
6/21/2024 18:28	63304	GREE_T1	0	0	0	0	0	0	-2.64	-2.65	1	1	0	1200	1200	0
6/21/2024 18:29	61703	ELIZ_T1	36	64	28	0.49	0.54	0.05	-1.78	-1.95	2	2	0	2100	2100	0
6/21/2024 18:29	61701	ELIZ_T1	5	5	0	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
6/21/2024 18:29	45501	DERR_T2	17	37	20	0.32	0.64	0.32	0.2	0.38	2	2	0	1800	1800	0
6/21/2024 18:29	45502	DERR_T2	10	2	-8	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
6/21/2024 18:30	61801	EELI_T2	14	11	-3	0.7	0.68	-0.02	0.07	0.07	1	1	0	600	600	0
6/21/2024 18:30	61701	ELIZ_T1	3	4	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/21/2024 18:30	63304	GREE_T1	0	0	0	0	0	0	-2.64	-2.65	1	1	0	1200	1200	0
6/21/2024 18:30	61802	EELI_T2	8	8	0	1.21	1.08	-0.13	0	0	0	0	0	0	0	0
6/21/2024 18:30	61703	ELIZ_T1	59	26	-33	0.48	0.4	-0.08	-5.35	-5.86	6	6	0	6300	6300	0
6/21/2024 18:30	61803	EELI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 18:31	61703	ELIZ_T1	59	26	-33	0.48	0.4	-0.08	-1.78	-1.95	2	2	0	2100	2100	0
6/21/2024 18:31	61701	ELIZ_T1	3	4	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/21/2024 18:37	22701	MINO_T1	0	0	0	0	0	0	-0.05	-0.04	1	1	0	600	600	0
6/21/2024 18:37	42701	AUGU_T1	119	127	8	1.74	1.54	-0.2	0	0	0	0	0	0	0	0
6/21/2024 18:39	67605	WAWW_T1	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
6/21/2024 18:45	41802	GOCI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 18:45	41801	GOCI_T2	9	12	3	0.98	0.78	-0.2	0	0	0	0	0	0	0	0
6/21/2024 18:46	46501	LOHA_T1	34	22	-12	0.73	0.63	-0.1	0	0	0	0	0	0	0	0
6/21/2024 18:46	46506	LOHA_T1	0	0	0	0	0	0	-0.91	-0.91	0	0	0	0	0	0
6/21/2024 18:46	46504	LOHA_T1	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0	0
6/21/2024 18:47	64701	LITI_T1	24	26	2	1.63	1.33	-0.3	0	0	0	0	0	0	0	0
6/21/2024 18:47	41802	GOCI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 18:47	64704	LITI_T1	0	0	0	0	0	0	0.56	0.55	1	1	0	600	600	0
6/21/2024 18:47	41801	GOCI_T2	9	12	3	0.98	0.78	-0.2	0	0	0	0	0	0	0	0
6/21/2024 18:48	46504	LOHA_T1	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/21/2024 18:48	46501	LOHA_T1	34	22	-12	0.73	0.63	-0.1	0	0	0	0	0	0	0	0
6/21/2024 18:48	46506	LOHA_T1	0	0	0	0	0	0	-1.81	-1.83	0	0	0	0	0	0
6/21/2024 18:49	46301	ROHR_T1	10	30	20	0.18	0.18	0	0	0	0	0	0	0	0	0
6/21/2024 18:49	46302	ROHR_T1	8	146	138	3.75	3.54	-0.21	0.5	0.42	0	0	0	0	0	0
6/21/2024 18:49	66901	SHIL_T2	0	0	0	0	0	0	-1.14	-1.16	0	0	0	0	0	0
6/21/2024 18:49	66902	SHIL_T2	4	2	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/21/2024 18:52	15202	SFAR_T1	12	11	-1	1.46	1.71	0.25	0.07	0.05	1	1	0	1200	1200	0
6/21/2024 18:52	15203	SFAR_T2	22	27	5	0.74	0.36	-0.38	-0.81	-0.83	0	0	0	0	0	0
6/21/2024 18:52	46302	ROHR_T1	8	146	138	3.75	3.54	-0.21	0.42	0.5	0	0	0	0	0	0
6/21/2024 18:52	46301	ROHR_T1	10	30	20	0.18	0.18	0	0	0	0	0	0	0	0	0
6/21/2024 18:52	15204	SFAR_T2	3	5	2	2.37	2.57	0.2	0	0	0	0	0	0	0	0
6/21/2024 18:58	29401	BELT_T1	2	2	0	0.1	0.2	0.1	0	0	1	1	0	900	900	0
6/21/2024 18:58	29402	BELT_T1	163	154	-9	1.22	1.03	-0.19	0	0	0	0	0	0	0	0
6/21/2024 18:59	64202	KINZ_T1	2	2	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
6/21/2024 18:59	64201	KINZ_T1	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/21/2024 18:59	64204	KINZ_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/21/2024 18:59	64203	KINZ_T1	0	0	0	0	0	0	-1.15	-1.16	3	3	0	2100	2100	0
6/21/2024 19:03	40101	HUNT_T2	5	8	3	0.32	0	-0.32	-1.34	-1.35	0	0	0	0	0	0
6/21/2024 19:09	20403	ASHF_T2	66	38	-28	0.65	0.59	-0.06	0.42	0.39	0	0	0	0	0	0
6/21/2024 19:09	20401	ASHF_T2	2	7	5	0.7	0.9	0.2	0	0	0	0	0	0	0	0
6/21/2024 19:09	20402	ASHF_T2	207	181	-26	0.79	0.56	-0.23	0	0	0	0	0	0	0	0
6/21/2024 19:13	63804	HEMP_T1	1	8	7	7.6	8.2	0.6	0.33	0.31	0	0	0	0	0	0
6/21/2024 19:21	54201	PENN_T1	8	6	-2	0.49	0.53	0.04	0	0	0	0	0	0	0	0
6/21/2024 19:21	54203	PENN_T1	5	5	0	0.94	0.86	-0.08	0.72	0.68	1	1	0	600	600	0
6/21/2024 19:22	40602	PIGR_T1	9	20	11	0.41	0.38	-0.03	0.01	0	0	0	0	0	0	0
6/21/2024 19:22	40603	PIGR_T1	42	35	-7	0.8	0.42	-0.38	0	0	0	0	0	0	0	0
6/21/2024 19:22	40601	PIGR_T1	10	13	3	0.48	0.6	0.12	0	0	0	0	0	0	0	0
6/21/2024 19:23	40602	PIGR_T1	9	20	11	0.41	0.38	-0.03	0.01	0	0	0	0	0	0	0
6/21/2024 19:23	40603	PIGR_T1	42	35	-7	0.8	0.42	-0.38	0	0	0	0	0	0	0	0
6/21/2024 19:23	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 19:23	10204	ALLE_T2	17	24	7	0.42	0.52	0.1	0	0	0	0	0	0	0	0
6/21/2024 19:23	40601	PIGR_T1	10	13	3	0.48	0.6	0.12	0	0	0	0	0	0	0	0
6/21/2024 19:23	10102	ALLE_T2	1	1	0	7.5	7.5	0	0	0	0	0	0	0	0	0
6/21/2024 19:24	40603	PIGR_T1	42	35	-7	0.8	0.42	-0.38	0	0	0	0	0	0	0	0
6/21/2024 19:24	40602	PIGR_T1	9	20	11	0.41	0.38	-0.03	0.01	0	0	0	0	0	0	0
6/21/2024 19:24	40601	PIGR_T1	10	13	3	0.48	0.6	0.12	0	0	0	0	0	0	0	0
6/21/2024 19:25	42701	AUGU_T1	114	132	18	2.28	2.68	0.4	0	0	0	0	0	0	0	0
6/21/2024 19:25	40602	PIGR_T1	9	20	11	0.41	0.38	-0.03	0.01	0	0	0	0	0	0	0
6/21/2024 19:25	40603	PIGR_T1	42	35	-7	0.8	0.42	-0.38	0	0	0	0	0	0	0	0
6/21/2024 19:25	40601	PIGR_T1	10	13	3	0.48	0.6	0.12	0	0	0	0	0	0	0	0
6/21/2024 19:32	61704	ELIZ_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/21/2024 19:32	61702	ELIZ_T2	2	0	-2	0.45	0	-0.45	-0.98	-1.01	2	2	0	1500	1500	0
6/21/2024 19:34	61701	ELIZ_T1	1	1	0	0.7	1	0.3	1.32	1.41	0	0	0	0	0	0
6/21/2024 19:36	57101	SPHI_T2	6	0	-6	0.17	0	-0.17	0	0	0	0	0	0	0	0
6/21/2024 19:36	57104	SPHI_T2	1	0	-1	0.8	1	0.2	0	0	0	0	0	0	0	0
6/21/2024 19:36	57106	SPHI_T2	3	3	0	0.8	0.83	0.03	0	0	0	0	0	0	0	0
6/21/2024 19:36	57103	SPHI_T2	0	0	0	0	0	0	0.1	0.07	1	1	0	600	600	0
6/21/2024 19:37	65804	RTWN_T1	0	0	0	0	0	0	1.05	1.01	1	1	0	600	600	0
6/21/2024 19:40	55101	WERT_T1	0	0	0	0	0	0	-1.94	-2.07	4	4	0	3300	3300	0
6/21/2024 19:40	55103	WERT_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
6/21/2024 19:42	64202	KINZ_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/21/2024 19:42	64201	KINZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/21/2024 19:42	64203	KINZ_T1	0	0	0	0	0	0	-1.19	-1.2	3	3	0	2100	2100	0
6/21/2024 19:42	67605	WARW_T1	0	0	0	0	0	0	-0.56	-0.43	0	0	0	0	0	0
6/21/2024 19:42	64204	KINZ_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
6/21/2024 19:43	64201	KINZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/21/2024 19:43	67605	WARW_T1	0	0	0	0	0	0	-0.56	-0.43	0	0	0	0	0	0
6/21/2024 19:43	64202	KINZ_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/21/2024 19:43	64203	KINZ_T1	0	0	0	0	0	0	-1.19	-1.2	3	3	0	2100	2100	0
6/21/2024 19:43	64204	KINZ_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
6/21/2024 19:44	53502	EVIL_T2	0	1	1	0	0.3	0.3	0.12	0.12	2	2	0	1200	1200	0
6/21/2024 19:44	53501	EVIL_T2	1	0	-1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/21/2024 19:49	46504	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/21/2024 19:49	46502	LOHA_T1	0	0	0	0	0	0	-0.8	-0.81	2	2	0	2400	2400	0
6/21/2024 19:49	46501	LOHA_T1	8	11	3	0.59	0.6	0.01	0	0	0	0	0	0	0	0
6/21/2024 19:50	52004	LING_T2	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
6/21/2024 19:50	52002	LING_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/21/2024 19:54	61102	BERK_T5	0	0	0	0	0	0	0.27	0.27	2	2	0	1500	1500	0
6/21/2024 19:55	42701	AUGU_T1	122	111	-11	2.7	2.75	0.05	0	0	0	0	0	0	0	0
6/21/2024 19:56	29402	BELT_T1	223	183	-40	1.13	1.11	-0.02	0	0	0	0	0	0	0	0
6/21/2024 19:56	29401	BELT_T1	23	23	0	0.27	0.26	-0.01	0	0	1	1	0	900	900	0
6/21/2024 19:57	63302	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/21/2024 19:57	63304	GREE_T1	0	0	0	0	0	0	-1.8	-1.84	0	0	0	0	0	0
6/21/2024 19:57	63305	GREE_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
6/21/2024 19:59	22903	HARW_T1	2	7	5	0.8	0.54	-0.26	0	0	0	0	0	0	0	0
6/21/2024 19:59	22905	HARW_T1	0	21	21	0	0.41	0.41	-0.24	-0.25	0	0	0	0	0	0
6/21/2024 19:59	22901	HARW_T1	32	43	11	1.18	0.79	-0.39	0	0	0	0	0	0	0	0
6/21/2024 20:06	41901	REED_T1	10	9	-1	1.46	1.19	-0.27	0	0	0	0	0	0	0	0
6/21/2024 20:06	41903	REED_T1	0	0	0	0	0	0	0.26	0.25	1	1	0	1200	1200	0
6/21/2024 20:06	41902	REED_T1	0	12	12	0	0.15	0.15	0	0	0	0	0	0	0	0
6/21/2024 20:12	29402	BELT_T1	183	69	-114	1.09	0.7	-0.39	0	0	0	0	0	0	0	0
6/21/2024 20:12	29401	BELT_T1	23	8	-15	0.26	0.15	-0.11	0	0	1	1	0	900	900	0
6/21/2024 20:25	64204	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
6/21/2024 20:25	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 20:25	64203	KINZ_T1	0	0	0	0	0	0	-0.3	-0.36	2	2	0	900	900	0
6/21/2024 20:26	64203	KINZ_T1	0	0	0	0	0	0	-0.3	-0.36	2	2	0	900	900	0
6/21/2024 20:26	64204	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
6/21/2024 20:26	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 20:48	22701	MINO_T1	0	0	0	0	0	0	-0.28	-0.31	1	1	0	600	600	0
6/21/2024 21:28	64203	KINZ_T1	0	0	0	0	0	0	0.15	0.21	1	1	0	600	600	0
6/21/2024 21:28	64204	KINZ_T1	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
6/21/2024 21:29	64204	KINZ_T1	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
6/21/2024 21:29	64203	KINZ_T1	0	0	0	0	0	0	0.15	0.21	1	1	0	600	600	0
6/21/2024 21:40	57505	LAWN_T3	2	2	0	0.5	1.7	1.2	0.44	0.41	0	0	0	0	0	0
6/21/2024 21:49	64203	KINZ_T1	0	0	0	0	0	0	0.21	0.12	1	1	0	600	600	0
6/21/2024 21:49	64204	KINZ_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
6/21/2024 21:50	64203	KINZ_T1	0	0	0	0	0	0	0.21	0.12	1	1	0	600	600	0
6/21/2024 21:50	64204	KINZ_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
6/21/2024 21:56	27605	PIRI_T2	19	7	-12	0.74	0.68	-0.06	0.59	0.2	1	1	0	900	900	0
6/21/2024 21:56	27201	YATE_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
6/21/2024 22:05	44703	MUNC_T2	0	0	0	0	0	0	1.16	1.13	0	0	0	0	0	0
6/21/2024 22:16	44703	MUNC_T2	0	4	4	0	0	0	1.13	1.1	0	0	0	0	0	0
6/21/2024 22:16	44702	MUNC_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:17	13503	MCMI_T2	0	20	20	0	0.15	0.15	-0.52	-0.53	0	0	0	0	0	0
6/21/2024 22:17	10603	BLGL_T1	36	28	-8	0.48	0.37	-0.11	-0.7	-0.74	0	0	0	0	0	0
6/21/2024 22:17	10601	BLGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:18	13904	SEID_T1	36	38	2	0.47	0.69	0.22	-0.39	-0.4	0	0	0	0	0	0
6/21/2024 22:18	13903	SEID_T1	18	15	-3	0.98	0.5	-0.48	0	0	0	0	0	0	0	0
6/21/2024 22:18	13902	SEID_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/21/2024 22:20	16101	BING_T2	3	3	0	3.83	4.1	0.27	1.3	1.26	0	0	0	0	0	0
6/21/2024 22:20	43304	WATS_T2	21	8	-13	0.46	0.53	0.07	-0.49	-0.53	0	0	0	0	0	0
6/21/2024 22:20	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 22:20	43301	WATS_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/21/2024 22:21	45501	DERR_T2	0	0	0	0	0	0	-0.07	-0.1	2	2	0	1800	1800	0
6/21/2024 22:22	63804	HEMP_T1	1	1	0	7.4	7	-0.4	0.09	0.05	0	0	0	0	0	0
6/21/2024 22:25	13503	MCMI_T2	0	20	20	0	0.15	0.15	-0.53	-0.55	0	0	0	0	0	0
6/21/2024 22:26	43202	MVIL_T2	26	65	39	0.22	0.71	0.49	-0.48	-0.48	0	0	0	0	0	0
6/21/2024 22:27	15202	SFAR_T1	4	1	-3	0.33	0	-0.33	-0.36	-0.41	1	1	0	1200	1200	0
6/21/2024 22:27	61101	BERK_T5	0	0	0	0	0	0	-1.15	-1.17	0	0	0	0	0	0
6/21/2024 22:27	12302	LANA_T2	0	0	0	0	0	0	-1.75	-1.78	3	3	0	2700	2700	0
6/21/2024 22:27	12304	LANA_T2	5	6	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
6/21/2024 22:27	10801	CHHI_T1	49	12	-37	0.58	0.2	-0.38	0	0	3	3	0	2100	2100	0
6/21/2024 22:28	12701	MACU_T1	0	0	0	0	0	0	-0.76	-0.77	1	1	0	1200	1200	0
6/21/2024 22:28	10805	CHHI_T2	16	8	-8	1.01	8.2	7.19	0	0	1	1	0	600	600	0
6/21/2024 22:28	65604	QVIL_T2	0	0	0	0	0	0	1.71	1.68	0	0	0	0	0	0
6/21/2024 22:28	55101	WERT_T1	0	0	0	0	0	0	-2.23	-2.3	4	4	0	3300	3300	0
6/21/2024 22:28	45302	WBER_T2	0	0	0	0	0	0	1.51	1.52	0	0	0	0	0	0
6/21/2024 22:29	16102	BING_T2	0	1	1	0	0.1	0.1	-1.15	-0.26	2	1	-1	2100	1200	-900
6/21/2024 22:29	29402	BELT_T1	60	96	36	0.58	0.92	0.34	0	0	0	0	0	0	0	0
6/21/2024 22:29	16101	BING_T2	3	3	0	3.83	4.1	0.27	0	0	0	0	0	0	0	0
6/21/2024 22:30	11104	EGYP_T1	0	2	2	0	0.1	0.1	0.09	0	0	0	0	0	0	0
6/21/2024 22:30	24902	WHHA_T1	1	0	-1	0.3	0	-0.3	0.9	0.88	0	0	0	0	0	0
6/21/2024 22:30	45501	DERR_T2	0	0	0	0	0	0	-0.07	-0.1	2	2	0	1800	1800	0
6/21/2024 22:30	57104	SPHI_T2	1	1	0	1.8	1.2	-0.6	0	0	0	0	0	0	0	0
6/21/2024 22:30	57103	SPHI_T2	0	0	0	0	0	0	-0.15	-0.3	1	1	0	600	600	0
6/21/2024 22:30	45502	DERR_T2	0	610	610	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:30	11102	EGYP_T1	10	7	-3	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
6/21/2024 22:30	57106	SPHI_T2	3	3	0	0.33	0.87	0.54	0	0	0	0	0	0	0	0
6/21/2024 22:30	57101	SPHI_T2	0	6	6	0	0.55	0.55	0	0	0	0	0	0	0	0
6/21/2024 22:31	57401	SPAN_T1	17	11	-6	0.28	0	-0.28	-0.57	-0.51	1	1	0	600	600	0
6/21/2024 22:31	45501	DERR_T2	0	0	0	0	0	0	-0.07	-0.1	2	2	0	1800	1800	0
6/21/2024 22:31	57403	SPAN_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
6/21/2024 22:31	54201	PENN_T1	4	4	0	0.65	0.63	-0.02	-1.47	-1.47	0	0	0	0	0	0
6/21/2024 22:31	45502	DERR_T2	0	610	610	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:31	54203	PENN_T1	5	5	0	0.52	0.58	0.06	0	0	0	0	0	0	0	0
6/21/2024 22:32	56803	BENV_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
6/21/2024 22:32	56801	BENV_T1	4	4	0	0.28	0.9	0.62	-0.67	-0.7	2	2	0	1200	1200	0
6/21/2024 22:32	61801	EELI_T2	1	1	0	0.4	0	-0.4	0.32	0.29	0	0	0	0	0	0
6/21/2024 22:32	65604	QVIL_T2	0	0	0	0	0	0	0.85	0.84	0	0	0	0	0	0
6/21/2024 22:32	10102	ALLE_T2	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
6/21/2024 22:32	16102	BING_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/21/2024 22:32	10805	CHHI_T2	1	13	12	8.2	4.25	-3.95	0	0	1	1	0	600	600	0
6/21/2024 22:32	10204	ALLE_T2	3	3	0	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/21/2024 22:32	46203	DANV_T2	9	0	-9	0.53	0	-0.53	-1.03	-0.19	0	0	0	0	0	0
6/21/2024 22:32	45501	DERR_T2	0	0	0	0	0	0	-0.07	-0.1	2	2	0	1800	1800	0
6/21/2024 22:32	16101	BING_T2	3	3	0	4.1	4	-0.1	0	0	0	0	0	0	0	0
6/21/2024 22:32	16103	BING_T2	0	0	0	0	0	0	-1.13	-1.17	2	2	0	1500	1500	0
6/21/2024 22:32	45502	DERR_T2	0	610	610	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:32	29402	BELT_T1	95	1	-94	0.92	0	-0.92	0	0	0	0	0	0	0	0
6/21/2024 22:32	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/21/2024 22:32	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:33	29402	BELT_T1	95	1	-94	0.92	0	-0.92	0	0	0	0	0	0	0	0
6/21/2024 22:33	11507	FREE_T2	11	6	-5	0.75	0.65	-0.1	0.59	0.58	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/21/2024 22:33	57401	SPAN_T1	17	11	-6	0.28	0	-0.28	-1.14	-1.03	2	2	0	1200	1200	0
6/21/2024 22:33	66703	STRA_T1	2	0	-2	0.4	0	-0.4	0.48	0.45	0	0	0	0	0	0
6/21/2024 22:33	15001	BLMO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 22:33	10801	CHHI_T1	12	1	-11	0.42	0.3	-0.12	0	0	3	3	0	2100	2100	0
6/21/2024 22:33	61701	ELIZ_T1	1	1	0	2.5	2.9	0.4	0.92	0.91	0	0	0	0	0	0
6/21/2024 22:33	57403	SPAN_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
6/21/2024 22:34	10805	CHHI_T2	1	13	12	8.2	4.25	-3.95	0	0	1	1	0	600	600	0
6/21/2024 22:34	11102	EGYP_T1	10	7	-3	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
6/21/2024 22:34	11104	EGYP_T1	0	2	2	0	0.1	0.1	0.09	0	0	0	0	0	0	0
6/21/2024 22:34	45502	DERR_T2	0	610	610	0	0	0	-0.48	-0.49	0	0	0	0	0	0
6/21/2024 22:34	15001	BLMO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 22:35	67602	WARW_T2	0	0	0	0	0	0	0.07	0.06	2	2	0	1500	1500	0
6/21/2024 22:35	56504	ROCK_T2	3	5	2	1.1	1	-0.1	0.51	0.48	0	0	0	0	0	0
6/21/2024 22:35	56501	ROCK_T2	1	1	0	0.2	0	-0.2	-1.57	-1.6	0	0	0	0	0	0
6/21/2024 22:35	51401	LYKE_T1	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
6/21/2024 22:35	29402	BELT_T1	95	1	-94	0.92	0	-0.92	0	0	0	0	0	0	0	0
6/21/2024 22:35	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/21/2024 22:36	56801	BENV_T1	4	4	0	0.28	0.9	0.62	-0.67	-0.7	2	2	0	1200	1200	0
6/21/2024 22:36	54203	PENN_T1	5	5	0	0.52	0.58	0.06	0.89	0.81	0	0	0	0	0	0
6/21/2024 22:36	56504	ROCK_T2	3	5	2	1.1	1	-0.1	0.51	0.48	0	0	0	0	0	0
6/21/2024 22:36	52403	GRPA_T2	19	27	8	0.52	0.35	-0.17	-0.6	-0.62	0	0	0	0	0	0
6/21/2024 22:36	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:36	56803	BENV_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
6/21/2024 22:36	22905	HARW_T1	1	4	3	0.9	0.53	-0.37	0	0	0	0	0	0	0	0
6/21/2024 22:36	52402	GRPA_T2	4	2	-2	0.28	0.15	-0.13	0	0	0	0	0	0	0	0
6/21/2024 22:36	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
6/21/2024 22:36	22901	HARW_T1	5	9	4	0.18	0.2	0.02	-0.11	-0.12	1	1	0	1200	1200	0
6/21/2024 22:36	65001	NEFF_T2	0	0	0	0	0	0	-0.39	-0.43	1	1	0	1200	1200	0
6/21/2024 22:36	65604	QVIL_T2	0	0	0	0	0	0	0.84	0.82	0	0	0	0	0	0
6/21/2024 22:36	10801	CHHI_T1	12	1	-11	0.42	0.3	-0.12	0	0	3	3	0	2100	2100	0
6/21/2024 22:36	66703	STRA_T1	2	0	-2	0.4	0	-0.4	0.9	0.8	0	0	0	0	0	0
6/21/2024 22:36	22903	HARW_T1	0	10	10	0	0.59	0.59	0	0	0	0	0	0	0	0
6/21/2024 22:36	56501	ROCK_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/21/2024 22:36	64302	LINC_T2	2	0	-2	0.2	0	-0.2	1.64	1.6	0	0	0	0	0	0
6/21/2024 22:36	64201	KINZ_T1	0	0	0	0	0	0	-0.3	-0.34	3	3	0	1500	1500	0
6/21/2024 22:36	61102	BERK_T5	0	0	0	0	0	0	0.3	0.25	2	2	0	1500	1500	0
6/21/2024 22:36	64202	KINZ_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
6/21/2024 22:36	12304	LANA_T2	6	3	-3	0.75	0.2	-0.55	0	0	0	0	0	0	0	0
6/21/2024 22:36	65603	QVIL_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
6/21/2024 22:36	12301	LANA_T2	0	0	0	0	0	0	-0.71	-0.74	1	1	0	1200	1200	0
6/21/2024 22:36	54201	PENN_T1	4	4	0	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
6/21/2024 22:37	10805	CHHI_T2	1	13	12	8.2	4.25	-3.95	0	0	1	1	0	600	600	0
6/21/2024 22:37	56801	BENV_T1	4	4	0	0.28	0.9	0.62	-0.7	-0.74	2	2	0	1200	1200	0
6/21/2024 22:37	45502	DERR_T2	0	610	610	0	0	0	-0.49	0.08	0	0	0	0	0	0
6/21/2024 22:37	44902	SCOT_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
6/21/2024 22:37	15001	BLMO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 22:37	56803	BENV_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
6/21/2024 22:37	46203	DANV_T2	9	0	-9	0.53	0	-0.53	-0.19	-0.23	0	0	0	0	0	0
6/21/2024 22:37	42902	MIDD_T2	1	0	-1	0.2	0	-0.2	-0.9	-0.94	1	1	0	600	600	0
6/21/2024 22:37	63401	HONY_T1	0	0	0	0	0	0	0.14	0.08	1	1	0	600	600	0
6/21/2024 22:37	57403	SPAN_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
6/21/2024 22:37	45501	DERR_T2	0	0	0	0	0	0	-0.2	-0.26	4	4	0	3600	3600	0
6/21/2024 22:37	66504	SMAN_T2	1	1	0	0.5	0.1	-0.4	-0.82	-1	2	2	0	2400	2400	0
6/21/2024 22:37	65401	MARI_T1	12	18	6	1.61	1.33	-0.28	0	0	0	0	0	0	0	0
6/21/2024 22:37	57401	SPAN_T1	17	11	-6	0.28	0	-0.28	-0.51	-0.67	1	1	0	600	600	0
6/21/2024 22:37	46001	BERW_T1	0	0	0	0	0	0	1.19	1.16	0	0	0	0	0	0
6/21/2024 22:37	43304	WATS_T2	7	5	-2	0.61	0	-0.61	-0.57	-0.61	0	0	0	0	0	0
6/21/2024 22:37	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/21/2024 22:37	65402	MARI_T1	6	4	-2	0.75	0	-0.75	0	0	0	0	0	0	0	0
6/21/2024 22:37	66505	SMAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:38	60501	NMAN_T2	3	3	0	3.77	4.5	0.73	0	0	0	0	0	0	0	0
6/21/2024 22:38	20402	ASHF_T2	6	3	-3	0.53	0	-0.53	0	0	0	0	0	0	0	0
6/21/2024 22:38	41801	GOCI_T2	0	1	1	0	0	0	0	0	2	0	-2	1800	0	-1800
6/21/2024 22:38	61304	EARL_T1	0	0	0	0	0	0	0.01	0	1	1	0	600	600	0
6/21/2024 22:38	67605	WARW_T1	0	0	0	0	0	0	-0.77	-0.82	0	0	0	0	0	0
6/21/2024 22:38	48302	ORWI_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
6/21/2024 22:38	46203	DANV_T2	9	0	-9	0.53	0	-0.53	-0.38	-0.45	0	0	0	0	0	0
6/21/2024 22:38	20403	ASHF_T2	0	0	0	0	0	0	1.03	1.03	0	0	0	0	0	0
6/21/2024 22:38	61102	BERK_T5	0	0	0	0	0	0	0.3	0.25	2	2	0	1500	1500	0
6/21/2024 22:38	58003	WCAR_T1	1	1	0	0.9	1.6	0.7	0.43	0.41	1	1	0	600	600	0
6/21/2024 22:38	60502	NMAN_T2	0	3	3	0	0.1	0.1	-0.46	-0.52	0	0	0	0	0	0
6/21/2024 22:38	12701	MACU_T1	0	0	0	0	0	0	-0.77	-0.79	1	1	0	1200	1200	0
6/21/2024 22:38	56504	ROCK_T2	3	5	2	1.1	1	-0.1	1.43	1.13	0	0	0	0	0	0
6/21/2024 22:38	65003	UPHA_T2	0	0	0	0	0	0	1.03	1	0	0	0	0	0	0
6/21/2024 22:38	58001	WCAR_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
6/21/2024 22:38	45501	DERR_T2	0	0	0	0	0	0	-0.1	-0.13	2	2	0	1800	1800	0
6/21/2024 22:38	56501	ROCK_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/21/2024 22:38	10801	CHHI_T1	12	1	-11	0.42	0.3	-0.12	0	0	3	3	0	2100	2100	0
6/21/2024 22:38	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 22:38	65604	QVIL_T2	0	0	0	0	0	0	0.84	0.82	0	0	0	0	0	0
6/21/2024 22:38	20601	GRWO_T2	47	19	-28	0.47	0.43	-0.04	0.19	0.17	0	0	0	0	0	0
6/21/2024 22:38	44902	SCOT_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
6/21/2024 22:38	45502	DERR_T2	0	610	610	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:38	52004	LING_T2	0	0	0	0	0	0	0.45	0.41	0	0	0	0	0	0
6/21/2024 22:39	49804	UNIV_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
6/21/2024 22:39	58001	WCAR_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
6/21/2024 22:39	59302	MCAL_T1	6	5	-1	0.5	0.1	-0.4	-0.68	-0.7	1	1	0	600	600	0
6/21/2024 22:39	61501	EPET_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
6/21/2024 22:39	29402	BELT_T1	95	1	-94	0.92	0	-0.92	0	0	0	0	0	0	0	0
6/21/2024 22:39	53902	HALI_T2	1	1	0	4.2	3.8	-0.4	0	0	0	0	0	0	0	0
6/21/2024 22:39	14404	SSLA_T1	1	0	-1	3	3.3	0.3	0	0	0	0	0	0	0	0
6/21/2024 22:39	14402	SSLA_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/21/2024 22:39	43304	WATS_T2	7	5	-2	0.61	0	-0.61	-0.57	-0.61	0	0	0	0	0	0
6/21/2024 22:39	66902	SHIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
6/21/2024 22:39	20601	GRWO_T2	47	19	-28	0.47	0.43	-0.04	0.19	0.17	0	0	0	0	0	0
6/21/2024 22:39	56803	BENV_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
6/21/2024 22:39	63401	HONY_T1	0	0	0	0	0	0	0.14	0.08	1	1	0	600	600	0
6/21/2024 22:39	13904	SEID_T1	36	46	10	0.53	0.83	0.3	-0.41	-0.41	0	0	0	0	0	0
6/21/2024 22:39	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/21/2024 22:39	66901	SHIL_T2	0	22	22	0	0.11	0.11	-0.29	-0.34	0	0	0	0	0	0
6/21/2024 22:39	14403	SSLA_T1	2	2	0	0.8	0.65	-0.15	1.39	1.33	0	0	0	0	0	0
6/21/2024 22:39	13903	SEID_T1	9	16	7	0.63	0.35	-0.28	0	0	0	0	0	0	0	0
6/21/2024 22:39	53903	HALI_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
6/21/2024 22:39	58003	WCAR_T1	1	1	0	0.9	1.6	0.7	0.43	0.41	1	1	0	600	600	0
6/21/2024 22:39	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
6/21/2024 22:39	56801	BENV_T1	4	4	0	0.28	0.9	0.62	-0.7	-0.74	2	2	0	1200	1200	0
6/21/2024 22:39	61506	EPET_T2	0	0	0	0	0	0	-0.38	-0.41	1	1	0	900	900	0
6/21/2024 22:39	42701	AUGU_T1	96	93	-3	2.23	1.91	-0.32	0	0	0	0	0	0	0	0
6/21/2024 22:39	47401	PENS_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
6/21/2024 22:39	49803	UNIV_T1	27	11	-16	0.2	0.2	0	-0.52	-0.56	0	0	0	0	0	0
6/21/2024 22:39	47001	HUGH_T2	249	221	-28	0.8	0.78	-0.02	-1.59	-1.66	1	1	0	900	900	0
6/21/2024 22:39	64402	LAND_T2	0	0	0	0	0	0	-0.19	-0.22	1	1	0	600	600	0
6/21/2024 22:40	56504	ROCK_T2	3	5	2	1.1	1	-0.1	0	0	0	0	0	0	0	0
6/21/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
6/21/2024 22:40	57403	SPAN_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
6/21/2024 22:40	61102	BERK_T5	0	0	0	0	0	0	0.3	0.25	2	2	0	1500	1500	0
6/21/2024 22:40	57401	SPAN_T1	17	11	-6	0.28	0	-0.28	-0.51	-0.67	1	1	0	600	600	0
6/21/2024 22:40	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:40	66504	SMAN_T2	1	1	0	0.5	0.1	-0.4	-0.41	-0.5	1	1	0	1200	1200	0
6/21/2024 22:40	61801	EELI_T2	1	1	0	0.4	0	-0.4	0.29	0.26	0	0	0	0	0	0
6/21/2024 22:40	66505	SMAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:40	56501	ROCK_T2	1	1	0	0.2	0	-0.2	-1.6	-1.8	0	0	0	0	0	0
6/21/2024 22:41	67605	WARW_T1	0	0	0	0	0	0	-0.77	-0.82	0	0	0	0	0	0
6/21/2024 22:41	61102	BERK_T5	0	0	0	0	0	0	0.6	0.49	4	4	0	3000	3000	0
6/21/2024 22:41	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.12	0	0	0	0	0	0
6/21/2024 22:41	45501	DERR_T2	0	0	0	0	0	0	-0.1	-0.13	2	2	0	1800	1800	0
6/21/2024 22:41	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/21/2024 22:41	45502	DERR_T2	0	610	610	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:41	57401	SPAN_T1	17	11	-6	0.28	0	-0.28	-0.51	-0.67	1	1	0	600	600	0
6/21/2024 22:41	60501	NMAN_T2	3	3	0	3.77	4.5	0.73	0	0	0	0	0	0	0	0
6/21/2024 22:41	63303	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/21/2024 22:41	43304	WATS_T2	7	5	-2	0.61	0	-0.61	-0.57	-0.61	0	0	0	0	0	0
6/21/2024 22:41	57403	SPAN_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
6/21/2024 22:41	60502	NMAN_T2	0	3	3	0	0.1	0.1	-0.46	-0.52	0	0	0	0	0	0
6/21/2024 22:41	56501	ROCK_T2	1	1	0	0.2	0	-0.2	-3.2	-3.6	0	0	0	0	0	0
6/21/2024 22:41	56504	ROCK_T2	3	5	2	1.1	1	-0.1	0	0	0	0	0	0	0	0
6/21/2024 22:41	44801	EDAN_T2	2	1	-1	0.85	1	0.15	0.92	0.88	0	0	0	0	0	0
6/21/2024 22:41	42902	MIDD_T2	1	0	-1	0.2	0	-0.2	-0.9	-0.94	1	1	0	600	600	0
6/21/2024 22:41	43202	MVIL_T2	54	69	15	0.44	0.73	0.29	-0.48	-0.49	0	0	0	0	0	0
6/21/2024 22:41	67602	WARW_T2	0	0	0	0	0	0	0.06	0.03	2	2	0	1500	1500	0
6/21/2024 22:41	63305	GREE_T1	10	0	-10	0.31	0	-0.31	0	0	0	0	0	0	0	0
6/21/2024 22:41	63304	GREE_T1	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
6/21/2024 22:42	45502	DERR_T2	0	610	610	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:42	45501	DERR_T2	0	0	0	0	0	0	-0.1	-0.13	2	2	0	1800	1800	0
6/21/2024 22:42	58803	COCO_T1	1	1	0	0.6	0.5	-0.1	-0.82	-0.87	1	1	0	600	600	0
6/21/2024 22:42	65601	QVIL_T2	0	0	0	0	0	0	-0.21	-0.28	1	1	0	900	900	0
6/21/2024 22:42	62102	ELAN_T1	0	0	0	0	0	0	0.76	0.67	0	0	0	0	0	0
6/21/2024 22:42	51004	NHAR_T1	1	2	1	6.8	7	0.2	-1.13	-1.15	0	0	0	0	0	0
6/21/2024 22:42	52402	GRPA_T2	4	2	-2	0.28	0.15	-0.13	0	0	0	0	0	0	0	0
6/21/2024 22:42	56803	BENV_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
6/21/2024 22:42	44905	SCOT_T1	5	6	1	0.64	0	-0.64	0	0	0	0	0	0	0	0
6/21/2024 22:42	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.12	0	0	0	0	0	0
6/21/2024 22:42	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/21/2024 22:42	40101	HUNT_T2	5	0	-5	0.44	0	-0.44	-0.94	-0.96	0	0	0	0	0	0
6/21/2024 22:42	46206	DANV_T2	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
6/21/2024 22:42	41901	REED_T1	10	9	-1	0.63	0.88	0.25	0	0	0	0	0	0	0	0
6/21/2024 22:42	56501	ROCK_T2	1	1	0	0.2	0	-0.2	-4.8	-5.39	0	0	0	0	0	0
6/21/2024 22:42	61102	BERK_T5	0	0	0	0	0	0	1.2	0.98	8	8	0	6000	6000	0
6/21/2024 22:42	52403	GRPA_T2	19	27	8	0.52	0.35	-0.17	0	0	0	0	0	0	0	0
6/21/2024 22:42	46203	DANV_T2	9	0	-9	0.53	0	-0.53	0	0	0	0	0	0	0	0
6/21/2024 22:42	41902	REED_T1	0	2	2	0	0	0	0.53	0.5	1	1	0	900	900	0
6/21/2024 22:42	51003	NHAR_T1	6	6	0	1.6	0.28	-1.32	0	0	0	0	0	0	0	0
6/21/2024 22:42	52404	GRPA_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/21/2024 22:42	56504	ROCK_T2	3	5	2	1.1	1	-0.1	0	0	0	0	0	0	0	0
6/21/2024 22:42	42902	MIDD_T2	1	0	-1	0.2	0	-0.2	-0.9	-0.94	1	1	0	600	600	0
6/21/2024 22:42	55101	WERT_T1	0	0	0	0	0	0	-2.3	-2.34	4	4	0	3300	3300	0
6/21/2024 22:42	56801	BENV_T1	4	4	0	0.28	0.9	0.62	-0.7	-0.74	2	2	0	1200	1200	0
6/21/2024 22:43	54701	NEBL_T1	1	1	0	0.6	1.2	0.6	0	0	1	1	0	600	600	0
6/21/2024 22:43	56504	ROCK_T2	3	5	2	1.1	1	-0.1	0	0	0	0	0	0	0	0
6/21/2024 22:43	40602	PIGR_T1	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
6/21/2024 22:43	40601	PIGR_T1	1	16	15	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/21/2024 22:43	58003	WCAR_T1	1	1	0	0.9	1.6	0.7	0.43	0.41	1	1	0	600	600	0
6/21/2024 22:43	46203	DANV_T2	9	0	-9	0.53	0	-0.53	-0.19	-0.23	0	0	0	0	0	0
6/21/2024 22:43	45501	DERR_T2	0	0	0	0	0	0	-0.1	-0.13	2	2	0	1800	1800	0
6/21/2024 22:43	51003	NHAR_T1	6	6	0	1.6	0.28	-1.32	-2.82	-2.81	1	1	0	1200	1200	0
6/21/2024 22:43	11804	FRAN_T1	227	180	-47	1.16	0.56	-0.6	0.6	0.57	0	0	0	0	0	0
6/21/2024 22:43	40101	HUNT_T2	5	0	-5	0.44	0	-0.44	-0.94	-0.96	0	0	0	0	0	0
6/21/2024 22:43	66505	SMAN_T2	0	2	2	0	0	0	0.07	-0.2	3	3	0	2100	2100	0
6/21/2024 22:43	61304	EARL_T1	0	0	0	0	0	0	0.01	0	1	1	0	600	600	0
6/21/2024 22:43	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.12	0	0	0	0	0	0
6/21/2024 22:43	14404	SSLA_T1	1	1	0	3	3.3	0.3	0	0	0	0	0	0	0	0
6/21/2024 22:43	55001	NEWP_T1	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
6/21/2024 22:43	61701	ELIZ_T1	1	1	0	2.5	2.9	0.4	0	0	0	0	0	0	0	0
6/21/2024 22:43	45502	DERR_T2	0	610	610	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:43	53501	EVIL_T2	1	2	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
6/21/2024 22:43	47401	PENS_T1	0	0	0	0	0	0	0.96	0.88	0	0	0	0	0	0
6/21/2024 22:43	51004	NHAR_T1	1	2	1	6.8	7	0.2	-1.13	-1.15	0	0	0	0	0	0
6/21/2024 22:43	40603	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/21/2024 22:43	41801	GOCI_T2	0	1	1	0	0	0	0	0	1	0	-1	900	0	-900
6/21/2024 22:43	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 22:43	52004	LING_T2	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
6/21/2024 22:43	57106	SPHI_T2	3	3	0	0.33	0.87	0.54	0	0	0	0	0	0	0	0
6/21/2024 22:43	57104	SPHI_T2	1	1	0	1.8	1.2	-0.6	-1.26	-2.13	0	1	1	0	900	900
6/21/2024 22:43	66504	SMAN_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
6/21/2024 22:43	15203	SFAR_T2	0	16	16	0	0.52	0.52	-0.29	-0.32	0	0	0	0	0	0
6/21/2024 22:43	64302	LINC_T2	2	0	-2	0.2	0	-0.2	1.64	1.6	0	0	0	0	0	0
6/21/2024 22:43	43304	WATS_T2	7	5	-2	0.61	0	-0.61	-0.57	-0.61	0	0	0	0	0	0
6/21/2024 22:43	42701	AUGU_T1	96	93	-3	2.23	1.91	-0.32	0	0	0	0	0	0	0	0
6/21/2024 22:43	46206	DANV_T2	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
6/21/2024 22:43	20403	ASHF_T2	0	0	0	0	0	0	1.03	1.03	0	0	0	0	0	0
6/21/2024 22:43	52002	LING_T2	0	0	0	0	0	0	0.13	-0.05	0	0	0	0	0	0
6/21/2024 22:43	14403	SSLA_T1	2	2	0	0.8	0.65	-0.15	1.39	1.33	0	0	0	0	0	0
6/21/2024 22:43	58001	WCAR_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
6/21/2024 22:43	14402	SSLA_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/21/2024 22:43	51401	LYKE_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
6/21/2024 22:43	47001	HUGH_T2	249	221	-28	0.8	0.78	-0.02	-1.59	-1.66	1	1	0	900	900	0
6/21/2024 22:43	20601	GRWO_T2	47	19	-28	0.47	0.43	-0.04	0.19	0.17	0	0	0	0	0	0
6/21/2024 22:43	20402	ASHF_T2	6	3	-3	0.53	0	-0.53	0	0	0	0	0	0	0	0
6/21/2024 22:43	56501	ROCK_T2	1	1	0	0.2	0	-0.2	-1.6	-1.8	0	0	0	0	0	0
6/21/2024 22:43	53502	EVIL_T2	0	0	0	0	0	0	-0.08	-0.07	2	2	0	1200	1200	0
6/21/2024 22:43	57101	SPHI_T2	0	6	6	0	0.55	0.55	0	0	0	0	0	0	0	0
6/21/2024 22:43	61703	ELIZ_T1	0	0	0	0	0	0	-2.31	-2.43	2	2	0	2100	2100	0
6/21/2024 22:44	60502	NMAN_T2	0	3	3	0	0.1	0.1	-0.46	-0.52	0	0	0	0	0	0
6/21/2024 22:44	46301	ROHR_T1	197	263	66	0.45	0.59	0.14	0	0	0	0	0	0	0	0
6/21/2024 22:44	55101	WERT_T1	0	0	0	0	0	0	-6.91	-7.01	12	12	0	9900	9900	0
6/21/2024 22:44	58001	WCAR_T1	0	3	3	0	0.13	0.13	-0.04	-0.96	0	0	0	0	0	0
6/21/2024 22:44	20403	ASHF_T2	0	0	0	0	0	0	2.06	2.05	0	0	0	0	0	0
6/21/2024 22:44	46001	BERW_T1	0	0	0	0	0	0	1.19	1.16	0	0	0	0	0	0
6/21/2024 22:44	56504	ROCK_T2	3	5	2	1.1	1	-0.1	0	0	0	0	0	0	0	0
6/21/2024 22:44	52002	LING_T2	0	0	0	0	0	0	0.06	-0.03	0	0	0	0	0	0
6/21/2024 22:44	46506	LOHA_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
6/21/2024 22:44	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 22:44	44801	EDAN_T2	2	1	-1	0.85	1	0.15	0.92	0.88	0	0	0	0	0	0
6/21/2024 22:44	15001	BLMO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/21/2024 22:44	20402	ASHF_T2	6	3	-3	0.53	0	-0.53	0	0	0	0	0	0	0	0
6/21/2024 22:44	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:44	47001	HUGH_T2	249	221	-28	0.8	0.78	-0.02	-1.59	-1.66	1	1	0	900	900	0
6/21/2024 22:44	47401	PENS_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
6/21/2024 22:44	67804	WLAN_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/21/2024 22:44	11102	EGYP_T1	10	7	-3	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
6/21/2024 22:44	22905	HARW_T1	1	4	3	0.9	0.53	-0.37	0	0	0	0	0	0	0	0
6/21/2024 22:44	67801	WLAN_T1	0	0	0	0	0	0	-0.81	-0.85	0	0	0	0	0	0
6/21/2024 22:44	11104	EGYP_T1	0	2	2	0	0.1	0.1	0	-0.04	0	0	0	0	0	0
6/21/2024 22:44	22901	HARW_T1	5	9	4	0.18	0.2	0.02	-0.12	-0.08	1	1	0	1200	1200	0
6/21/2024 22:44	56501	ROCK_T2	1	1	0	0.2	0	-0.2	-1.6	-1.8	0	0	0	0	0	0
6/21/2024 22:44	60501	NMAN_T2	3	3	0	3.77	4.5	0.73	0	0	0	0	0	0	0	0
6/21/2024 22:44	46501	LOHA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/21/2024 22:44	63401	HONY_T1	0	0	0	0	0	0	0.14	0.08	1	1	0	600	600	0
6/21/2024 22:44	40902	JESH_T1	0	0	0	0	0	0	-1.25	-1.27	2	2	0	1200	1200	0
6/21/2024 22:44	67602	WARW_T2	0	0	0	0	0	0	0.12	0.06	4	4	0	3000	3000	0
6/21/2024 22:44	42201	SHEN_T2	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
6/21/2024 22:44	22903	HARW_T1	0	10	10	0	0.59	0.59	0	0	0	0	0	0	0	0
6/21/2024 22:44	65205	PRIN_T1	1	1	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
6/21/2024 22:44	46504	LOHA_T1	2	2	0	0.3	0.55	0.25	0	0	0	0	0	0	0	0
6/21/2024 22:44	46203	DANV_T2	9	0	-9	0.53	0	-0.53	-0.19	-0.23	0	0	0	0	0	0
6/21/2024 22:44	46101	MACI_T2	0	0	0	0	0	0	0.77	0.76	0	0	0	0	0	0
6/21/2024 22:44	52401	GRPA_T2	0	0	0	0	0	0	-0.35	-0.4	0	0	0	0	0	0
6/21/2024 22:44	52404	GRPA_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
6/21/2024 22:44	40901	JESH_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
6/21/2024 22:44	55001	NEWP_T1	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
6/21/2024 22:44	52402	GRPA_T2	4	2	-2	0.28	0.15	-0.13	0	0	0	0	0	0	0	0
6/21/2024 22:44	67605	WARW_T1	0	0	0	0	0	0	-0.77	-0.82	0	0	0	0	0	0
6/21/2024 22:44	65604	QVIL_T2	0	0	0	0	0	0	0.84	0.82	0	0	0	0	0	0
6/21/2024 22:44	66703	STRA_T1	2	0	-2	0.4	0	-0.4	0.45	0.4	0	0	0	0	0	0
6/21/2024 22:44	67203	TEHI_T1	0	0	0	0	0	0	1.91	1.88	1	1	0	900	900	0
6/21/2024 22:44	58003	WCAR_T1	1	1	0	0.9	1.6	0.7	0	0	0	0	0	0	0	0
6/21/2024 22:44	46302	ROHR_T1	6	21	15	1.23	0.47	-0.76	0.41	0.41	0	0	0	0	0	0
6/21/2024 22:44	52403	GRPA_T2	19	27	8	0.52	0.35	-0.17	0	0	0	0	0	0	0	0
6/21/2024 22:45	41902	REED_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/21/2024 22:45	13105	NHAM_T2	47	15	-32	0.42	0.59	0.17	-0.71	-0.75	1	1	0	1200	1200	0
6/21/2024 22:45	13103	NHAM_T2	4	5	1	1.23	0.4	-0.83	0	0	0	0	0	0	0	0
6/21/2024 22:45	57103	SPHI_T2	0	0	0	0	0	0	-0.3	-0.94	1	1	0	600	600	0
6/21/2024 22:45	20402	ASHF_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/21/2024 22:45	57501	LAWN_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:45	57506	LAWN_T3	0	0	0	0	0	0	1.73	1.61	1	1	0	600	600	0
6/21/2024 22:45	57101	SPHI_T2	0	6	6	0	0.55	0.55	0	0	0	0	0	0	0	0
6/21/2024 22:45	58706	ROSE_T2	1	1	0	2.3	1.8	-0.5	1.15	1.11	1	1	0	600	600	0
6/21/2024 22:45	57401	SPAN_T1	11	0	-11	0.25	0	-0.25	-0.51	-0.67	1	1	0	600	600	0
6/21/2024 22:45	57106	SPHI_T2	3	3	0	0.53	0.93	0.4	0	0	0	0	0	0	0	0
6/21/2024 22:45	41901	REED_T1	9	9	0	0.78	1.02	0.24	-1.39	-1.38	1	1	0	900	900	0
6/21/2024 22:45	57505	LAWN_T3	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
6/21/2024 22:45	58705	ROSE_T2	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
6/21/2024 22:45	57104	SPHI_T2	1	1	0	1.5	1.2	-0.3	0	0	0	0	0	0	0	0
6/21/2024 22:45	44301	BEAV_T2	1	2	1	0.4	0.9	0.5	0.23	0.14	1	1	0	600	600	0
6/21/2024 22:45	20403	ASHF_T2	0	0	0	0	0	0	1.03	1.03	0	0	0	0	0	0
6/21/2024 22:45	45501	DERR_T2	0	0	0	0	0	0	-0.1	-0.13	2	2	0	1800	1800	0
6/21/2024 22:45	46203	DANV_T2	0	0	0	0	0	0	-0.19	-0.23	0	0	0	0	0	0
6/21/2024 22:45	63304	GREE_T1	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
6/21/2024 22:45	20401	ASHF_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/21/2024 22:45	13102	NHAM_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/21/2024 22:45	45502	DERR_T2	0	338	338	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:45	15001	BLMO_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/21/2024 22:45	56801	BENV_T1	3	6	3	0.73	1.08	0.35	-0.7	-0.74	2	2	0	1200	1200	0
6/21/2024 22:45	56803	BENV_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/21/2024 22:45	12701	MACU_T1	0	0	0	0	0	0	-0.77	-0.79	1	1	0	1200	1200	0
6/21/2024 22:46	44801	EDAN_T2	1	1	0	1	1	0	0.92	0.88	0	0	0	0	0	0
6/21/2024 22:46	40601	PIGR_T1	2	27	25	0.1	0.26	0.16	0	0	0	0	0	0	0	0
6/21/2024 22:46	56501	ROCK_T2	1	0	-1	0.7	0	-0.7	-1.6	-1.8	0	0	0	0	0	0
6/21/2024 22:46	56803	BENV_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/21/2024 22:46	61102	BERK_T5	0	0	0	0	0	0	0.3	0.25	2	2	0	1500	1500	0
6/21/2024 22:46	56801	BENV_T1	3	6	3	0.73	1.08	0.35	-0.7	-0.74	2	2	0	1200	1200	0
6/21/2024 22:46	52002	LING_T2	0	0	0	0	0	0	0.06	-0.03	0	0	0	0	0	0
6/21/2024 22:46	67602	WARW_T2	0	0	0	0	0	0	0.06	0.03	2	2	0	1500	1500	0
6/21/2024 22:46	56504	ROCK_T2	5	5	0	1	1.03	0.03	0	0	0	0	0	0	0	0
6/21/2024 22:46	40602	PIGR_T1	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
6/21/2024 22:47	40601	PIGR_T1	2	27	25	0.1	0.26	0.16	0	0	0	0	0	0	0	0
6/21/2024 22:47	56801	BENV_T1	3	6	3	0.73	1.08	0.35	-0.7	-0.74	2	2	0	1200	1200	0
6/21/2024 22:47	45602	WOOL_T1	44	48	4	0.53	0.56	0.03	1.49	1.43	0	0	0	0	0	0
6/21/2024 22:47	12701	MACU_T1	0	0	0	0	0	0	-0.77	-0.79	1	1	0	1200	1200	0
6/21/2024 22:47	61102	BERK_T5	0	0	0	0	0	0	0.3	0.25	2	2	0	1500	1500	0
6/21/2024 22:47	48301	ORWI_T1	2	2	0	4.1	4.8	0.7	0.44	0.41	0	0	0	0	0	0
6/21/2024 22:47	45302	WBER_T2	0	0	0	0	0	0	1.52	1.52	0	0	0	0	0	0
6/21/2024 22:47	47401	PENS_T1	0	0	0	0	0	0	0.96	0.88	0	0	0	0	0	0
6/21/2024 22:47	42903	MIDD_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/21/2024 22:47	44301	BEAV_T2	1	2	1	0.4	0.9	0.5	0.23	0.14	1	1	0	600	600	0
6/21/2024 22:47	56501	ROCK_T2	1	0	-1	0.7	0	-0.7	-1.6	-1.8	0	0	0	0	0	0
6/21/2024 22:47	56504	ROCK_T2	5	5	0	1	1.03	0.03	0	0	0	0	0	0	0	0
6/21/2024 22:47	40602	PIGR_T1	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
6/21/2024 22:47	67605	WARW_T1	0	2	2	0	0.1	0.1	-0.77	-0.82	0	0	0	0	0	0
6/21/2024 22:47	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
6/21/2024 22:47	67204	TEHI_T2	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
6/21/2024 22:47	56803	BENV_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/21/2024 22:47	55101	WERT_T1	0	0	0	0	0	0	-2.3	-2.34	4	4	0	3300	3300	0
6/21/2024 22:47	61702	ELIZ_T2	0	0	0	0	0	0	-1.21	-1.24	2	2	0	1500	1500	0
6/21/2024 22:47	46203	DANV_T2	0	0	0	0	0	0	-0.19	-0.23	0	0	0	0	0	0
6/21/2024 22:47	52002	LING_T2	0	0	0	0	0	0	0.06	-0.03	0	0	0	0	0	0
6/21/2024 22:47	42902	MIDD_T2	0	3	3	0	0	0	-0.9	-0.94	1	1	0	600	600	0
6/21/2024 22:47	46206	DANV_T2	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
6/21/2024 22:48	14404	SSLA_T1	1	1	0	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
6/21/2024 22:48	40901	JESH_T1	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
6/21/2024 22:48	46502	LOHA_T1	0	0	0	0	0	0	-0.92	-0.93	2	2	0	2400	2400	0
6/21/2024 22:48	67605	WARW_T1	0	2	2	0	0.1	0.1	-0.77	-0.82	0	0	0	0	0	0
6/21/2024 22:48	67605	WARW_T1	0	2	2	0	0.1	0.1	-0.77	-0.82	0	0	0	0	0	0
6/21/2024 22:48	67605	WARW_T1	0	2	2	0	0.1	0.1	-0.77	-0.82	0	0	0	0	0	0
6/21/2024 22:48	67605	WARW_T1	0	2	2	0	0.1	0.1	-0.77	-0.82	0	0	0	0	0	0
6/21/2024 22:48	56501	ROCK_T2	1	0	-1	0.7	0	-0.7	-1.6	-1.8	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/21/2024 22:48	42903	MIDD_T2	2	2	0	0.2	0.2	0	-1.07	-1.08	1	1	0	1200	1200	0
6/21/2024 22:48	42902	MIDD_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:48	46501	LOHA_T1	2	2	0	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/21/2024 22:48	61102	BERK_T5	0	0	0	0	0	0	0.3	0.25	2	2	0	1500	1500	0
6/21/2024 22:48	67602	WARW_T2	0	0	0	0	0	0	0.06	0.03	2	2	0	1500	1500	0
6/21/2024 22:48	53902	HALI_T2	1	1	0	3.5	4.1	0.6	0	0	1	0	0	0	0	0
6/21/2024 22:48	56504	ROCK_T2	5	5	0	1	1.03	0.03	0.48	0.38	0	0	0	0	0	0
6/21/2024 22:48	14403	SSLA_T1	2	2	0	0.65	0.7	0.05	1.39	1.33	0	0	0	0	0	0
6/21/2024 22:48	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
6/21/2024 22:48	46504	LOHA_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
6/21/2024 22:48	49804	UNIV_T1	2	1	-1	0.15	0.7	0.55	1.22	1.17	0	0	0	0	0	0
6/21/2024 22:48	40101	HUNT_T2	0	0	0	0	0	0	-0.94	-0.96	0	0	0	0	0	0
6/21/2024 22:48	47401	PENS_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
6/21/2024 22:48	53903	HALI_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
6/21/2024 22:48	49803	UNIV_T1	11	0	-11	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/21/2024 22:48	40902	JESH_T1	0	0	0	0	0	0	-1.25	-1.27	2	2	0	1200	1200	0
6/21/2024 22:48	61304	EARL_T1	0	0	0	0	0	0	0.01	0	1	1	0	600	600	0
6/21/2024 22:48	66703	STRA_T1	0	0	0	0	0	0	0.45	0.4	0	0	0	0	0	0
6/21/2024 22:49	57401	SPAN_T1	11	0	-11	0.25	0	-0.25	-0.51	-0.67	1	1	0	600	600	0
6/21/2024 22:49	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:49	45402	WILO_T2	58	72	14	0.43	0.44	0.01	-1.11	-1.16	1	1	0	900	900	0
6/21/2024 22:49	52002	LING_T2	0	0	0	0	0	0	0.06	-0.03	0	0	0	0	0	0
6/21/2024 22:49	21206	ECAR_T2	1	6	5	7.8	7.7	-0.1	0.36	0.35	0	0	0	0	0	0
6/21/2024 22:49	41902	REED_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/21/2024 22:49	41901	REED_T1	9	9	0	0.78	1.02	0.24	0	0	0	0	0	0	0	0
6/21/2024 22:49	20601	GRWO_T2	19	8	-11	0.45	0.15	-0.3	0.19	0.17	0	0	0	0	0	0
6/21/2024 22:49	56801	BENV_T1	3	6	3	0.73	1.08	0.35	-0.7	-0.74	2	2	0	1200	1200	0
6/21/2024 22:49	42903	MIDD_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/21/2024 22:49	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/21/2024 22:49	40602	PIGR_T1	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
6/21/2024 22:49	56501	ROCK_T2	1	0	-1	0.7	0	-0.7	-1.6	-1.8	0	0	0	0	0	0
6/21/2024 22:49	41903	REED_T1	0	0	0	0	0	0	0.02	0.01	1	1	0	1200	1200	0
6/21/2024 22:49	67602	WARW_T2	0	0	0	0	0	0	0.12	0.06	4	4	0	3000	3000	0
6/21/2024 22:49	52402	GRPA_T2	2	2	0	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/21/2024 22:49	42902	MIDD_T2	0	3	3	0	0	0	-0.9	-0.94	1	1	0	600	600	0
6/21/2024 22:49	67605	WARW_T1	0	2	2	0	0.1	0.1	-0.77	-0.82	0	0	0	0	0	0
6/21/2024 22:49	56803	BENV_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/21/2024 22:49	61304	EARL_T1	0	0	0	0	0	0	0.01	0	1	1	0	600	600	0
6/21/2024 22:49	40601	PIGR_T1	2	27	25	0.1	0.26	0.16	0	0	0	0	0	0	0	0
6/21/2024 22:49	42701	AUGU_T1	92	85	-7	1.95	1.57	-0.38	0	0	0	0	0	0	0	0
6/21/2024 22:49	56504	ROCK_T2	5	5	0	1	1.03	0.03	0	0	0	0	0	0	0	0
6/21/2024 22:49	46102	MACI_T1	0	1	1	0	0	0	1.18	1.17	0	0	0	0	0	0
6/21/2024 22:49	45702	LIND_T2	1	1	0	0.1	0.2	0.1	-1.33	-1.35	0	0	0	0	0	0
6/21/2024 22:49	52403	GRPA_T2	25	27	2	0.36	0.4	0.04	-0.62	-0.65	0	0	0	0	0	0
6/21/2024 22:49	40101	HUNT_T2	0	0	0	0	0	0	-0.94	-0.96	0	0	0	0	0	0
6/21/2024 22:50	46301	ROHR_T1	251	258	7	0.54	0.59	0.05	0	0	0	0	0	0	0	0
6/21/2024 22:50	25501	MADI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/21/2024 22:50	41901	REED_T1	9	9	0	0.78	1.02	0.24	0	0	0	0	0	0	0	0
6/21/2024 22:50	64204	KINZ_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
6/21/2024 22:50	53902	HALI_T2	1	1	0	3.5	4.1	0.6	0	0	0	0	0	0	0	0
6/21/2024 22:50	64202	KINZ_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
6/21/2024 22:50	21203	ECAR_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
6/21/2024 22:50	55101	WERT_T1	0	0	0	0	0	0	-2.3	-2.34	4	4	0	3300	3300	0
6/21/2024 22:50	64203	KINZ_T1	0	0	0	0	0	0	0.02	0.01	1	1	0	600	600	0
6/21/2024 22:50	56801	BENV_T1	3	6	3	0.73	1.08	0.35	-2.81	-2.94	8	8	0	4800	4800	0
6/21/2024 22:50	56803	BENV_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/21/2024 22:50	45802	HEGI_T2	14	16	2	0.3	0.36	0.06	0.59	0.6	0	0	0	0	0	0
6/21/2024 22:50	41801	GOCI_T2	0	1	1	0	0.1	0.1	0	0	2	0	-2	1800	0	-1800
6/21/2024 22:50	46302	ROHR_T1	16	20	4	0.52	0.48	-0.04	0.41	0.41	0	0	0	0	0	0
6/21/2024 22:50	53903	HALI_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
6/21/2024 22:50	48302	ORWI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/21/2024 22:50	48303	ORWI_T2	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
6/21/2024 22:50	25503	MADI_T1	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
6/21/2024 22:50	41902	REED_T1	2	0	-2	0.25	0	-0.25	0.53	0.5	1	1	0	900	900	0
6/21/2024 22:51	41801	GOCI_T2	0	1	1	0	0.1	0.1	0	0	1	0	-1	900	0	-900
6/21/2024 22:51	56801	BENV_T1	3	6	3	0.73	1.08	0.35	-0.7	-0.74	2	2	0	1200	1200	0
6/21/2024 22:51	47401	PENS_T1	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
6/21/2024 22:51	23401	HONE_T2	0	0	0	0	0	0	0.4	0.26	0	0	0	0	0	0
6/21/2024 22:51	56803	BENV_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/21/2024 22:52	42903	MIDD_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/21/2024 22:52	46301	ROHR_T1	251	258	7	0.54	0.59	0.05	0	0	0	0	0	0	0	0
6/21/2024 22:52	46302	ROHR_T1	16	20	4	0.52	0.48	-0.04	0.41	0.4	0	0	0	0	0	0
6/21/2024 22:52	42201	SHEN_T2	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
6/21/2024 22:52	40101	HUNT_T2	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
6/21/2024 22:52	42902	MIDD_T2	0	3	3	0	0	0	-0.94	-0.95	1	1	0	600	600	0
6/21/2024 22:53	64305	LINC_T1	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
6/21/2024 22:53	56504	ROCK_T2	5	5	0	1	1.03	0.03	0	0	0	0	0	0	0	0
6/21/2024 22:53	41902	REED_T1	2	0	-2	0.25	0	-0.25	0.5	0.46	1	1	0	900	900	0
6/21/2024 22:53	41901	REED_T1	9	9	0	0.78	1.02	0.24	0	0	0	0	0	0	0	0
6/21/2024 22:53	56501	ROCK_T2	1	0	-1	0.7	0	-0.7	-1.8	-1.79	0	0	0	0	0	0
6/21/2024 22:53	46901	MNTG_T2	0	0	0	0	0	0	0.28	0.19	2	2	0	2400	2400	0
6/21/2024 22:53	44301	BEAV_T2	1	2	1	0.4	0.9	0.5	0.14	0.06	1	1	0	600	600	0
6/21/2024 22:53	67602	WARW_T2	0	0	0	0	0	0	0.03	0	2	2	0	1500	1500	0
6/21/2024 22:54	41901	REED_T1	9	9	0	0.78	1.02	0.24	0	0	0	0	0	0	0	0
6/21/2024 22:54	41902	REED_T1	2	0	-2	0.25	0	-0.25	0.5	0.46	1	1	0	900	900	0
6/21/2024 22:55	46803	HEPB_T2	0	1	1	0	0.2	0.2	0.74	0.73	0	0	0	0	0	0
6/21/2024 22:55	46801	HEPB_T2	3	10	7	0.57	0.36	-0.21	0.17	0.14	0	0	0	0	0	0
6/21/2024 22:57	52403	GRPA_T2	25	27	2	0.36	0.4	0.04	-0.65	-0.68	0	0	0	0	0	0
6/21/2024 22:57	52402	GRPA_T2	2	2	0	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/21/2024 23:17	44301	BEAV_T2	2	2	0	0.9	0	-0.9	0.06	0.05	1	1	0	600	600	0
6/21/2024 23:56	22903	HARW_T1	14	22	8	0.69	0.64	-0.05	0	0	0	0	0	0	0	0
6/21/2024 23:56	22905	HARW_T1	0	14	14	0	0	0	-0.32	-0.32	0	0	0	0	0	0
6/21/2024 23:56	22901	HARW_T1	3	15	12	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/21/2024 23:57	64305	LINC_T1	1	1	0	0.3	0.7	0.4	-0.1	-0.13	0	0	0	0	0	0
6/21/2024 23:58	64305	LINC_T1	1	1	0	0.3	0.7	0.4	-0.1	-0.13	0	0	0	0	0	0
6/21/2024 23:58	45802	HEGI_T2	21	32	11	0.45	0.47	0.02	0.42	0.31	0	0	0	0	0	0
6/22/2024 0:01	43202	MVIL_T2	48	50	2	0.3	0.28	-0.02	-0.51	-0.51	0	0	0	0	0	0
6/22/2024 1:21	67605	WARW_T1	0	308	308	0	1.29	1.29	-0.86	-0.87	0	0	0	0	0	0
6/22/2024 1:21	67604	WARW_T1	0	31	31	0	0.17	0.17	0	0	0	0	0	0	0	0
6/22/2024 1:21	67603	WARW_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
6/22/2024 1:22	67603	WARW_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
6/22/2024 1:22	67604	WARW_T1	0	31	31	0	0.17	0.17	0	0	0	0	0	0	0	0
6/22/2024 1:22	67605	WARW_T1	0	308	308	0	1.29	1.29	-0.87	-0.89	0	0	0	0	0	0
6/22/2024 2:34	65901	SAKR_T2	1	1	0	8.6	8.5	-0.1	-1.19	-1.22	2	2	0	1500	1500	0
6/22/2024 10:00	58706	ROSE_T2	1	1	0	2.4	2.8	0.4	-0.08	-0.04	1	1	0	600	600	0
6/22/2024 10:00	67502	WEWI_T2	0	2	2	0	0.5	0.5	-1.03	-0.99	1	1	0	900	900	0
6/22/2024 10:00	53902	HALI_T2	1	1	0	3.2	3.1	-0.1	0	0	0	0	0	0	0	0
6/22/2024 10:00	53903	HALI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/22/2024 10:00	58705	ROSE_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/22/2024 10:00	40503	CRES_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/22/2024 10:00	40505	CRES_T1	9	9	0	0.57	0.82	0.25	0.86	0.89	0	0	0	0	0	0
6/22/2024 10:00	40504	CRES_T1	13	13	0	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
6/22/2024 10:00	67503	WEWI_T2	0	2	2	0	0	0	-0.22	-0.01	0	0	0	0	0	0
6/22/2024 10:41	21201	ECAR_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/22/2024 10:41	21203	ECAR_T1	0	2	2	0	0	0	-0.16	-0.16	0	0	0	0	0	0
6/22/2024 10:42	23401	HONE_T2	8	25	17	0.36	0.26	-0.1	0.39	0.53	0	0	0	0	0	0
6/22/2024 11:21	21206	ECAR_T2	72	116	44	1.25	0.99	-0.26	0.51	0.5	0	0	0	0	0	0
6/22/2024 11:21	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/22/2024 11:28	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/22/2024 11:28	21206	ECAR_T2	72	116	44	1.25	0.99	-0.26	0.5	0.49	0	0	0	0	0	0
6/22/2024 11:51	55105	WERT_T1	2	2	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
6/22/2024 11:51	55103	WERT_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/22/2024 11:51	55101	WERT_T1	36	56	20	0.74	0.78	0.04	-3.52	-3.58	8	8	0	6600	6600	0
6/22/2024 11:52	55101	WERT_T1	36	56	20	0.74	0.78	0.04	-1.79	-1.7	4	4	0	3300	3300	0
6/22/2024 11:52	55105	WERT_T1	2	2	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
6/22/2024 11:52	55103	WERT_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/22/2024 11:53	55103	WERT_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/22/2024 11:53	55105	WERT_T1	2	2	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
6/22/2024 11:53	55101	WERT_T1	36	56	20	0.74	0.78	0.04	-1.79	-1.7	4	4	0	3300	3300	0
6/22/2024 11:53	55102	WERT_T2	0	0	0	0	0	0	-1.97	-1.95	2	2	0	1200	1200	0
6/22/2024 11:54	55102	WERT_T2	0	0	0	0	0	0	-1.97	-1.95	2	2	0	1200	1200	0
6/22/2024 11:55	55103	WERT_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/22/2024 11:55	55105	WERT_T1	2	2	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
6/22/2024 11:55	55101	WERT_T1	36	56	20	0.74	0.78	0.04	-3.58	-3.39	8	8	0	6600	6600	0
6/22/2024 11:56	55105	WERT_T1	2	2	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
6/22/2024 11:56	55101	WERT_T1	36	56	20	0.74	0.78	0.04	-1.79	-1.7	4	4	0	3300	3300	0
6/22/2024 11:56	55103	WERT_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/22/2024 12:27	28801	LAKE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/22/2024 12:27	28805	LAKE_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
6/22/2024 12:29	21204	ECAR_T2	1	7	6	0	0.43	0.43	0	0	0	0	0	0	0	0
6/22/2024 12:29	21206	ECAR_T2	39	41	2	1	1.15	0.15	0.51	0.43	0	0	0	0	0	0
6/22/2024 12:29	21202	ECAR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/22/2024 12:44	49803	UNIV_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
6/22/2024 12:44	49804	UNIV_T1	1	8	7	4.6	1.23	-3.37	0	0	0	0	0	0	0	0
6/22/2024 12:46	49804	UNIV_T1	8	17	9	0.59	1.8	1.21	0	0	0	0	0	0	0	0
6/22/2024 12:46	49803	UNIV_T1	0	1	1	0	0	0	-0.11	-0.1	0	0	0	0	0	0
6/22/2024 14:06	57505	LAWN_T3	152	295	143	0.73	0.71	-0.02	-0.63	0	0	0	0	0	0	0
6/22/2024 14:06	57502	LAWN_T3	85	170	85	0.92	0.9	-0.02	0	0	0	0	0	0	0	0
6/22/2024 14:06	57501	LAWN_T3	18	24	6	0.96	0.74	-0.22	0	0	0	0	0	0	0	0
6/22/2024 14:06	57503	LAWN_T3	2	2	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
6/22/2024 14:06	57506	LAWN_T3	627	916	289	0.66	0.7	0.04	0	0	0	0	0	0	0	0
6/22/2024 14:07	57503	LAWN_T3	2	2	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
6/22/2024 14:07	57506	LAWN_T3	627	916	289	0.66	0.7	0.04	0	0	0	0	0	0	0	0
6/22/2024 14:07	57502	LAWN_T3	85	170	85	0.92	0.9	-0.02	0	0	0	0	0	0	0	0
6/22/2024 14:07	57501	LAWN_T3	18	24	6	0.96	0.74	-0.22	0	0	0	0	0	0	0	0
6/22/2024 14:07	57505	LAWN_T3	152	295	143	0.73	0.71	-0.02	0	0	0	0	0	0	0	0
6/22/2024 14:15	57506	LAWN_T3	795	953	158	0.71	0.74	0.03	0	0	0	0	0	0	0	0
6/22/2024 14:15	57505	LAWN_T3	204	391	187	0.72	0.76	0.04	0	0	0	0	0	0	0	0
6/22/2024 14:15	57501	LAWN_T3	19	27	8	0.94	0.7	-0.24	0	0	0	0	0	0	0	0
6/22/2024 14:15	57502	LAWN_T3	113	186	73	0.88	0.93	0.05	0	0	0	0	0	0	0	0
6/22/2024 14:15	57503	LAWN_T3	2	1	-1	0.85	1.7	0.85	0	0	0	0	0	0	0	0
6/22/2024 15:52	55105	WERT_T1	16	19	3	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
6/22/2024 15:52	55103	WERT_T1	14	21	7	0.6	0.72	0.12	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/22/2024 15:52	55101	WERT_T1	26	106	80	0.68	0.65	-0.03	-2.26	-2.15	4	4	0	3300	3300	0
6/22/2024 15:53	55102	WERT_T2	18	32	14	0.66	0.5	-0.16	-3.34	-3.33	4	4	0	2400	2400	0
6/22/2024 15:54	55102	WERT_T2	18	32	14	0.66	0.5	-0.16	-1.67	-1.67	2	2	0	1200	1200	0
6/22/2024 16:26	67702	WERN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/22/2024 16:26	67703	WERN_T2	255	514	259	0.83	0.63	-0.2	-0.01	-0.01	1	1	0	900	900	0
6/22/2024 16:27	67703	WERN_T2	255	514	259	0.83	0.63	-0.2	-0.01	-0.01	1	1	0	900	900	0
6/22/2024 16:27	67702	WERN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/22/2024 17:15	51004	NHAR_T1	12	7	-5	0.93	3.65	2.72	-2.43	-1.17	0	0	0	0	0	0
6/22/2024 17:15	51001	NHAR_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/22/2024 17:15	51002	NHAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/22/2024 17:15	51006	NHAR_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/22/2024 17:15	51003	NHAR_T1	13	2	-11	0.68	0.1	-0.58	0	0	0	0	0	0	0	0
6/22/2024 17:16	51006	NHAR_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/22/2024 17:16	51002	NHAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/22/2024 17:16	51003	NHAR_T1	13	2	-11	0.68	0.1	-0.58	0	0	0	0	0	0	0	0
6/22/2024 17:16	51004	NHAR_T1	12	7	-5	0.93	3.65	2.72	-2.43	-1.17	0	0	0	0	0	0
6/22/2024 17:16	51001	NHAR_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/22/2024 17:17	51002	NHAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/22/2024 17:17	51006	NHAR_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/22/2024 17:17	51003	NHAR_T1	13	2	-11	0.68	0.1	-0.58	-2.62	-2.69	1	1	0	1200	1200	0
6/22/2024 17:17	51001	NHAR_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/22/2024 17:17	51004	NHAR_T1	12	7	-5	0.93	3.65	2.72	0	0	0	0	0	0	0	0
6/22/2024 17:29	57403	SPAN_T1	12	1	-11	0.41	0.1	-0.31	-0.07	-0.09	0	0	0	0	0	0
6/22/2024 17:29	57401	SPAN_T1	8	5	-3	0.76	0	-0.76	0	0	0	0	0	0	0	0
6/22/2024 17:33	54501	ENOL_T2	0	0	0	0	0	0	-0.05	0.22	1	1	0	600	600	0
6/22/2024 17:48	57403	SPAN_T1	1	0	-1	0.1	0	-0.1	-0.18	-0.21	0	0	0	0	0	0
6/22/2024 17:48	57401	SPAN_T1	5	5	0	0.34	0.4	0.06	0	0	0	0	0	0	0	0
6/22/2024 17:52	61101	BERK_T5	63	47	-16	0.71	1.04	0.33	-0.75	-0.75	0	0	0	0	0	0
6/22/2024 17:54	61101	BERK_T5	63	47	-16	0.71	1.04	0.33	-0.75	-0.75	0	0	0	0	0	0
6/22/2024 18:11	57702	PAXT_T1	10	8	-2	0.58	0.34	-0.24	-0.25	-0.27	0	0	0	0	0	0
6/22/2024 18:16	49804	UNIV_T1	4	4	0	0.68	0.45	-0.23	1.68	1.64	0	0	0	0	0	0
6/22/2024 18:16	49803	UNIV_T1	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
6/22/2024 18:35	54501	ENOL_T2	0	0	0	0	0	0	0.17	0.16	1	1	0	600	600	0
6/22/2024 19:22	61101	BERK_T5	1	5	4	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/22/2024 19:22	61102	BERK_T5	0	0	0	0	0	0	-0.7	-0.92	2	2	0	1500	1500	0
6/22/2024 19:23	46902	MNTG_T2	90	112	22	0.74	0.82	0.08	0.91	0.97	0	0	0	0	0	0
6/22/2024 19:23	46903	MNTG_T2	23	179	156	0.32	0.65	0.33	0	0	0	0	0	0	0	0
6/22/2024 19:23	46901	MNTG_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
6/22/2024 22:22	61101	BERK_T5	0	0	0	0	0	0	-1.22	-1.23	0	0	0	0	0	0
6/22/2024 22:31	55101	WERT_T1	0	0	0	0	0	0	-2.45	-2.48	4	4	0	3300	3300	0
6/22/2024 22:31	55105	WERT_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/22/2024 22:31	54501	ENOL_T2	0	0	0	0	0	0	-0.05	-0.07	1	1	0	600	600	0
6/22/2024 22:32	61101	BERK_T5	0	0	0	0	0	0	-1.22	-1.23	0	0	0	0	0	0
6/22/2024 22:32	49804	UNIV_T1	1	5	4	0.1	0.18	0.08	0	0	0	0	0	0	0	0
6/22/2024 22:32	49803	UNIV_T1	24	32	8	0.19	0.28	0.09	-0.57	-0.6	0	0	0	0	0	0
6/22/2024 22:35	55102	WERT_T2	0	0	0	0	0	0	-0.61	-0.63	2	2	0	1200	1200	0
6/22/2024 22:36	23401	HONE_T2	1	0	-1	0.4	0	-0.4	0.12	0.11	0	0	0	0	0	0
6/22/2024 22:36	57501	LAWN_T3	0	0	0	0	0	0	-1.81	-1.83	0	0	0	0	0	0
6/22/2024 22:36	61102	BERK_T5	0	0	0	0	0	0	-0.53	-0.54	2	2	0	1500	1500	0
6/22/2024 22:37	46901	MNTG_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/22/2024 22:37	46902	MNTG_T2	172	174	2	1.02	1.19	0.17	0.85	0.06	0	0	0	0	0	0
6/22/2024 22:37	55102	WERT_T2	0	0	0	0	0	0	-0.63	-0.66	2	2	0	1200	1200	0
6/22/2024 22:37	46903	MNTG_T2	578	634	56	0.87	1.06	0.19	0	0	0	0	0	0	0	0
6/22/2024 22:38	57403	SPAN_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
6/22/2024 22:38	55102	WERT_T2	0	0	0	0	0	0	-1.27	-1.33	4	4	0	2400	2400	0
6/22/2024 22:40	51002	NHAR_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/22/2024 22:40	21203	ECAR_T1	1	1	0	0.3	0	-0.3	-0.19	-0.19	0	0	0	0	0	0
6/22/2024 22:40	51003	NHAR_T1	2	2	0	0.2	0.2	0	-2.9	-2.88	1	1	0	1200	1200	0
6/22/2024 22:40	49804	UNIV_T1	1	5	4	0.1	0.18	0.08	0	0	0	0	0	0	0	0
6/22/2024 22:40	49803	UNIV_T1	24	32	8	0.19	0.28	0.09	-0.6	-0.57	0	0	0	0	0	0
6/22/2024 22:40	51004	NHAR_T1	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
6/22/2024 22:41	51002	NHAR_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/22/2024 22:41	51003	NHAR_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/22/2024 22:41	55105	WERT_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/22/2024 22:41	51004	NHAR_T1	1	1	0	6.6	6.5	-0.1	-2.37	-2.39	0	0	0	0	0	0
6/22/2024 22:41	55101	WERT_T1	0	0	0	0	0	0	-2.48	-2.5	4	4	0	3300	3300	0
6/22/2024 22:42	57505	LAWN_T3	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
6/22/2024 22:42	55105	WERT_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/22/2024 22:42	55102	WERT_T2	0	0	0	0	0	0	-0.63	-0.66	2	2	0	1200	1200	0
6/22/2024 22:42	55101	WERT_T1	0	0	0	0	0	0	-4.95	-5	8	8	0	6600	6600	0
6/22/2024 22:42	57403	SPAN_T1	0	0	0	0	0	0	0.82	0.79	0	0	0	0	0	0
6/22/2024 22:43	54501	ENOL_T2	0	0	0	0	0	0	-0.07	-0.08	1	1	0	600	600	0
6/22/2024 22:44	57505	LAWN_T3	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
6/22/2024 22:44	55101	WERT_T1	0	0	0	0	0	0	-2.48	-2.5	4	4	0	3300	3300	0
6/22/2024 22:44	55105	WERT_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/22/2024 22:45	49804	UNIV_T1	5	1	-4	0.16	0.3	0.14	1.14	1.11	0	0	0	0	0	0
6/22/2024 22:45	49803	UNIV_T1	23	40	17	0.23	0.32	0.09	0	0	0	0	0	0	0	0
6/22/2024 22:46	55101	WERT_T1	0	0	0	0	0	0	-2.48	-2.5	4	4	0	3300	3300	0
6/22/2024 22:48	55101	WERT_T1	0	0	0	0	0	0	-2.48	-2.5	4	4	0	3300	3300	0
6/22/2024 22:49	57702	PAXT_T1	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
6/23/2024 1:58	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/23/2024 1:59	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/23/2024 6:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 6:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 6:42	22905	HARW_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
6/23/2024 6:47	64902	MILL_T2	0	0	0	0	0	0	-0.86	-0.84	1	1	0	900	900	0
6/23/2024 6:50	14404	SSLA_T1	1	1	0	3.7	3.7	0	0.09	0.09	0	0	0	0	0	0
6/23/2024 6:55	55102	WERT_T2	0	0	0	0	0	0	-0.79	-0.75	2	2	0	1200	1200	0
6/23/2024 6:58	63501	HEID_TBK1-2	1	1	0	0.3	0.8	0.5	0.07	0.07	1	1	0	900	900	0
6/23/2024 7:01	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 7:01	54505	ENOL_T2	0	0	0	0	0	0	-1.17	-1.18	1	1	0	600	600	0
6/23/2024 7:02	12601	MACA_T1	0	0	0	0	0	0	0.97	0.98	0	0	0	0	0	0
6/23/2024 7:02	20403	ASHF_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
6/23/2024 7:02	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/23/2024 7:12	29402	BELT_T1	1	1	0	9.1	8.8	-0.3	0	0	0	0	0	0	0	0
6/23/2024 7:12	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/23/2024 7:15	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 7:15	21206	ECAR_T2	6	11	5	1.68	1.43	-0.25	0.24	0.26	0	0	0	0	0	0
6/23/2024 7:19	52501	PROG_T1	0	0	0	0	0	0	0.37	0.38	1	1	0	300	300	0
6/23/2024 7:20	52501	PROG_T1	0	0	0	0	0	0	0.74	0.77	2	2	0	600	600	0
6/23/2024 7:22	29402	BELT_T1	1	1	0	8.8	8.7	-0.1	0	0	0	0	0	0	0	0
6/23/2024 7:22	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/23/2024 7:30	62102	ELAN_T1	0	0	0	0	0	0	1.09	1.1	0	0	0	0	0	0
6/23/2024 7:30	62104	ELAN_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/23/2024 7:53	16102	BING_T2	0	0	0	0	0	0	0.6	0.64	0	0	0	0	0	0
6/23/2024 7:54	15204	SFAR_T2	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
6/23/2024 7:57	12006	HATF_T1	0	0	0	0	0	0	0.85	0.97	0	0	0	0	0	0
6/23/2024 7:58	46206	DANV_T2	7	5	-2	0.69	1.25	0.56	0	0	0	0	0	0	0	0
6/23/2024 7:58	46803	HEPB_T2	0	0	0	0	0	0	0.69	0.71	0	0	0	0	0	0
6/23/2024 7:58	46203	DANV_T2	0	0	0	0	0	0	-1.7	-1.68	0	0	0	0	0	0
6/23/2024 7:58	41303	FISH_T1	1	1	0	2.4	2.8	0.4	0	0	0	0	0	0	0	0
6/23/2024 7:58	46801	HEPB_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/23/2024 7:58	41301	FISH_T1	2	1	-1	0.75	1.3	0.55	-0.47	-0.47	0	0	0	0	0	0
6/23/2024 7:59	41301	FISH_T1	2	1	-1	0.75	1.3	0.55	-0.47	-0.47	0	0	0	0	0	0
6/23/2024 7:59	41303	FISH_T1	1	1	0	2.4	2.8	0.4	0	0	0	0	0	0	0	0
6/23/2024 8:13	43304	WATS_T2	0	3	3	0	0.1	0.1	0.3	0.32	0	0	0	0	0	0
6/23/2024 8:14	52002	LING_T2	0	0	0	0	0	0	0.21	0.29	0	0	0	0	0	0
6/23/2024 8:15	64203	KINZ_T1	0	0	0	0	0	0	0.62	0.03	0	1	1	0	600	600
6/23/2024 8:15	64204	KINZ_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/23/2024 8:23	10801	CHIH_T1	0	0	0	0	0	0	-0.87	-0.84	2	2	0	1500	1500	0
6/23/2024 8:26	63304	GREE_T1	0	0	0	0	0	0	-1.04	-0.91	0	0	0	0	0	0
6/23/2024 8:27	21203	ECAR_T1	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
6/23/2024 8:28	63304	GREE_T1	0	0	0	0	0	0	-1.04	-0.91	0	0	0	0	0	0
6/23/2024 8:30	41801	GOCI_T2	0	1	1	0	0	0	0	0	1	1	0	900	900	0
6/23/2024 8:30	65004	NEFF_T2	0	0	0	0	0	0	-0.59	-0.57	1	1	0	600	600	0
6/23/2024 8:31	41801	GOCI_T2	0	1	1	0	0	0	0	0	1	1	0	900	900	0
6/23/2024 8:39	46203	DANV_T2	0	0	0	0	0	0	-1.57	-1.55	0	0	0	0	0	0
6/23/2024 8:39	46206	DANV_T2	1	11	10	0.2	0.88	0.68	0	0	0	0	0	0	0	0
6/23/2024 8:40	46203	DANV_T2	0	0	0	0	0	0	-1.57	-1.55	0	0	0	0	0	0
6/23/2024 8:40	63401	HONY_T1	0	0	0	0	0	0	-0.09	-0.07	1	1	0	600	600	0
6/23/2024 8:40	29402	BELT_T1	19	103	84	0.2	1.34	1.14	0	0	0	0	0	0	0	0
6/23/2024 8:40	46206	DANV_T2	1	11	10	0.2	0.88	0.68	0	0	0	0	0	0	0	0
6/23/2024 8:41	29402	BELT_T1	19	103	84	0.2	1.34	1.14	0	0	0	0	0	0	0	0
6/23/2024 8:41	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/23/2024 8:42	46206	DANV_T2	1	11	10	0.2	0.88	0.68	0	0	0	0	0	0	0	0
6/23/2024 8:42	46203	DANV_T2	0	0	0	0	0	0	-3.13	-3.1	0	0	0	0	0	0
6/23/2024 8:49	56501	ROCK_T2	1	1	0	0.9	0.7	-0.2	-0.82	-0.76	0	0	0	0	0	0
6/23/2024 8:52	56501	ROCK_T2	1	1	0	0.9	0.7	-0.2	-0.76	-0.7	0	0	0	0	0	0
6/23/2024 8:53	56501	ROCK_T2	1	1	0	0.9	0.7	-0.2	-0.76	-0.7	0	0	0	0	0	0
6/23/2024 8:53	44302	BEAV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/23/2024 8:53	44301	BEAV_T2	5	6	1	1.16	0.73	-0.43	-0.53	-0.52	1	1	0	600	600	0
6/23/2024 8:54	61304	EARL_T1	0	0	0	0	0	0	-0.14	-0.1	1	1	0	600	600	0
6/23/2024 8:54	44302	BEAV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/23/2024 8:54	44301	BEAV_T2	5	6	1	1.16	0.73	-0.43	-0.53	-0.52	1	1	0	600	600	0
6/23/2024 8:54	63401	HONY_T1	0	0	0	0	0	0	-0.14	-0.3	2	2	0	1200	1200	0
6/23/2024 8:55	44302	BEAV_T2	0	1	1	0	0.4	0.4	0.54	0.54	0	0	0	0	0	0
6/23/2024 8:55	44301	BEAV_T2	5	6	1	1.16	0.73	-0.43	0	0	0	0	0	0	0	0
6/23/2024 8:55	61304	EARL_T1	0	0	0	0	0	0	-0.14	-0.1	1	1	0	600	600	0
6/23/2024 8:56	10801	CHIH_T1	0	0	0	0	0	0	-0.93	-1.32	2	3	1	1500	2100	600
6/23/2024 8:56	46206	DANV_T2	6	8	2	0.25	0.95	0.7	0.16	0.18	1	1	0	1200	1200	0
6/23/2024 8:56	61304	EARL_T1	0	0	0	0	0	0	-0.14	-0.1	1	1	0	600	600	0
6/23/2024 8:58	46206	DANV_T2	6	8	2	0.25	0.95	0.7	0.16	0.18	1	1	0	1200	1200	0
6/23/2024 8:58	61304	EARL_T1	0	0	0	0	0	0	-0.14	-0.1	1	1	0	600	600	0
6/23/2024 8:59	52403	GRPA_T2	28	73	45	0.77	1.09	0.32	0	0	0	0	0	0	0	0
6/23/2024 8:59	52401	GRPA_T2	2	13	11	0.85	0.87	0.02	0	0	0	0	0	0	0	0
6/23/2024 8:59	52404	GRPA_T2	0	5	5	0	0	0	0.08	-1.12	0	0	0	0	0	0
6/23/2024 8:59	52402	GRPA_T2	6	13	7	0.9	0.47	-0.43	0	0	0	0	0	0	0	0
6/23/2024 9:00	46206	DANV_T2	8	4	-4	0.71	1	0.29	0.16	0.18	1	1	0	1200	1200	0
6/23/2024 9:08	67605	WARW_T1	0	0	0	0	0	0	-0.84	-0.81	0	0	0	0	0	0
6/23/2024 9:12	11507	FREE_T2	4	9	5	1.2	0.68	-0.52	0.92	0.89	0	0	0	0	0	0
6/23/2024 9:16	47104	MARL_T1	1	4	3	0.2	0.97	0.77	0	0	0	0	0	0	0	0
6/23/2024 9:16	47101	MARL_T1	55	156	101	0.84	0.8	-0.04	-0.9	-0.9	1	1	0	600	600	0
6/23/2024 9:16	20601	GRWO_T2	68	1	-67	0.57	0.1	-0.47	0.91	0.12	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/23/2024 9:18	47104	MARL_T1	1	4	3	0.2	0.97	0.77	0	0	0	0	0	0	0	0
6/23/2024 9:18	47101	MARL_T1	55	156	101	0.84	0.8	-0.04	-0.9	-0.9	1	1	0	600	600	0
6/23/2024 9:19	47101	MARL_T1	55	156	101	0.84	0.8	-0.04	-2.71	-2.7	3	3	0	1800	1800	0
6/23/2024 9:19	47104	MARL_T1	1	4	3	0.2	0.97	0.77	0	0	0	0	0	0	0	0
6/23/2024 9:20	47104	MARL_T1	1	4	3	0.2	0.97	0.77	0	0	0	0	0	0	0	0
6/23/2024 9:20	47101	MARL_T1	55	156	101	0.84	0.8	-0.04	-0.9	-0.9	1	1	0	600	600	0
6/23/2024 9:20	13303	ORVI_T1	0	0	0	0	0	0	0.48	0.43	0	0	0	0	0	0
6/23/2024 9:21	54701	NEBL_T1	1	2	1	0.7	0.7	0	0	0	1	1	0	600	600	0
6/23/2024 9:22	24902	WHHA_T1	0	2	2	0	0.25	0.25	0.64	0.65	0	0	0	0	0	0
6/23/2024 9:24	46203	DANV_T2	0	0	0	0	0	0	-1.45	-1.4	0	0	0	0	0	0
6/23/2024 9:24	24902	WHHA_T1	0	2	2	0	0.25	0.25	0.64	0.65	0	0	0	0	0	0
6/23/2024 9:24	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 9:24	46206	DANV_T2	4	5	1	1	1.3	0.3	0	0	0	0	0	0	0	0
6/23/2024 9:25	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 9:25	22001	BOHE_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
6/23/2024 9:25	22003	BOHE_T1	3	25	22	0.67	0.28	-0.39	0.1	0.11	0	0	0	0	0	0
6/23/2024 9:25	46203	DANV_T2	0	0	0	0	0	0	-1.45	-1.4	0	0	0	0	0	0
6/23/2024 9:25	46206	DANV_T2	4	5	1	1	1.3	0.3	0	0	0	0	0	0	0	0
6/23/2024 9:25	22002	BOHE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/23/2024 9:25	43304	WATS_T2	0	0	0	0	0	0	-0.16	-0.69	0	0	0	0	0	0
6/23/2024 9:26	56803	BENV_T1	3	6	3	0.9	0.78	-0.12	0	0	0	0	0	0	0	0
6/23/2024 9:26	56801	BENV_T1	2	5	3	0.35	0.36	0.01	-0.84	-0.8	2	2	0	1200	1200	0
6/23/2024 9:27	22901	HARW_T1	37	60	23	0.92	0.82	-0.1	-0.52	-0.39	1	1	0	1200	1200	0
6/23/2024 9:27	22903	HARW_T1	4	7	3	0.2	0.2	0	0	0	0	0	0	0	0	0
6/23/2024 9:27	43301	WATS_T2	0	0	0	0	0	0	-0.28	-0.26	1	1	0	900	900	0
6/23/2024 9:27	43302	WATS_T2	0	0	0	0	0	0	-0.8	-0.8	2	2	0	1800	1800	0
6/23/2024 9:27	22905	HARW_T1	7	17	10	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
6/23/2024 9:27	22904	HARW_T1	1	0	-1	6.8	0	-6.8	0	0	0	0	0	0	0	0
6/23/2024 9:30	22901	HARW_T1	55	56	1	1.21	0.75	-0.46	-0.52	-0.39	1	1	0	1200	1200	0
6/23/2024 9:30	22903	HARW_T1	5	7	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
6/23/2024 9:30	22905	HARW_T1	2	17	15	0.3	0.33	0.03	0	0	0	0	0	0	0	0
6/23/2024 9:31	60502	NMAN_T2	0	1	1	0	0.3	0.3	-0.38	-0.32	0	0	0	0	0	0
6/23/2024 9:31	60501	NMAN_T2	3	3	0	4.47	4.63	0.16	0	0	0	0	0	0	0	0
6/23/2024 9:31	47401	PENS_T1	9	10	1	0.99	1.11	0.12	1.56	1.52	0	0	0	0	0	0
6/23/2024 9:32	60502	NMAN_T2	0	1	1	0	0.3	0.3	-0.38	-0.32	0	0	0	0	0	0
6/23/2024 9:32	65401	MARI_T1	17	17	0	3.55	2.34	-1.21	0	0	0	0	0	0	0	0
6/23/2024 9:32	60501	NMAN_T2	3	3	0	4.47	4.63	0.16	0	0	0	0	0	0	0	0
6/23/2024 9:32	64101	REFR_T1	10	11	1	0.77	1.55	0.78	1.13	1.2	0	0	0	0	0	0
6/23/2024 9:32	65402	MARI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 9:33	52004	LING_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
6/23/2024 9:33	64101	REFR_T1	10	11	1	0.77	1.55	0.78	0.57	0.6	0	0	0	0	0	0
6/23/2024 9:33	52002	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 9:33	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 9:34	64101	REFR_T1	10	11	1	0.77	1.55	0.78	0.57	0.6	0	0	0	0	0	0
6/23/2024 9:35	64101	REFR_T1	10	11	1	0.77	1.55	0.78	0.57	0.6	0	0	0	0	0	0
6/23/2024 9:35	65402	MARI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 9:35	65401	MARI_T1	17	17	0	3.55	2.34	-1.21	0	0	0	0	0	0	0	0
6/23/2024 9:36	64101	REFR_T1	10	11	1	0.77	1.55	0.78	1.2	1.26	0	0	0	0	0	0
6/23/2024 9:37	47401	PENS_T1	9	10	1	0.99	1.11	0.12	1.52	1.55	0	0	0	0	0	0
6/23/2024 9:37	64101	REFR_T1	10	11	1	0.77	1.55	0.78	1.8	1.9	0	0	0	0	0	0
6/23/2024 9:38	67605	WARW_T1	0	0	0	0	0	0	-0.79	-0.76	0	0	0	0	0	0
6/23/2024 9:38	10801	CHHI_T1	0	8	8	0	0.35	0.35	-1.28	-1.23	3	3	0	2100	2100	0
6/23/2024 9:38	56801	BENV_T1	4	4	0	0.43	0.1	-0.33	-0.8	-0.76	2	2	0	1200	1200	0
6/23/2024 9:38	56803	BENV_T1	5	5	0	0.72	0.7	-0.02	0	0	0	0	0	0	0	0
6/23/2024 9:39	67901	WNHO_T2	8	56	48	0.21	0.34	0.13	-0.09	-0.08	0	0	0	0	0	0
6/23/2024 9:39	56801	BENV_T1	4	4	0	0.43	0.1	-0.33	-0.8	-0.76	2	2	0	1200	1200	0
6/23/2024 9:39	56803	BENV_T1	5	5	0	0.72	0.7	-0.02	0	0	0	0	0	0	0	0
6/23/2024 9:42	41902	REED_T1	15	42	27	0.27	0.33	0.06	0.36	0.38	1	1	0	900	900	0
6/23/2024 9:42	41901	REED_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
6/23/2024 9:42	61301	EARL_T1	0	0	0	0	0	0	-1.24	-1.24	2	2	0	1800	1800	0
6/23/2024 9:43	41902	REED_T1	15	42	27	0.27	0.33	0.06	0.36	0.38	1	1	0	900	900	0
6/23/2024 9:43	41901	REED_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
6/23/2024 9:43	61301	EARL_T1	0	0	0	0	0	0	-1.24	-1.24	2	2	0	1800	1800	0
6/23/2024 9:47	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 9:49	65205	PRIN_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
6/23/2024 9:51	56501	ROCK_T2	1	3	2	0.7	0.65	-0.05	-3.7	-3.63	0	0	0	0	0	0
6/23/2024 9:53	45501	DERR_T2	0	0	0	0	0	0	-0.46	-0.39	2	2	0	1800	1800	0
6/23/2024 9:53	67801	WLAN_T1	6	57	51	0.18	0.56	0.38	-0.76	-0.78	0	0	0	0	0	0
6/23/2024 9:53	67804	WLAN_T1	10	10	0	1.37	1.4	0.03	0	0	0	0	0	0	0	0
6/23/2024 9:54	56501	ROCK_T2	1	3	2	0.7	0.65	-0.05	-1.21	-1.04	0	0	0	0	0	0
6/23/2024 9:57	46901	MNTG_T2	118	112	-6	0.48	0.42	-0.06	-0.22	-0.21	1	1	0	1200	1200	0
6/23/2024 9:57	46903	MNTG_T2	247	211	-36	0.49	0.47	-0.02	0	0	0	0	0	0	0	0
6/23/2024 9:57	46902	MNTG_T2	89	88	-1	0.56	0.48	-0.08	0	0	0	0	0	0	0	0
6/23/2024 9:58	45501	DERR_T2	0	0	0	0	0	0	-0.46	-0.39	2	2	0	1800	1800	0
6/23/2024 10:00	56501	ROCK_T2	1	4	3	1.3	0.65	-0.65	-6.05	-5.2	0	0	0	0	0	0
6/23/2024 10:00	60501	NMAN_T2	3	3	0	4.63	4.53	-0.1	0	0	0	0	0	0	0	0
6/23/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
6/23/2024 10:00	65205	PRIN_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
6/23/2024 10:00	67502	WEWI_T2	0	0	0	0	0	0	-1.12	-1.02	1	1	0	900	900	0
6/23/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.5	-0.4	0	0	0	0	0	0
6/23/2024 10:00	40505	CRES_T1	3	9	6	2.13	1.09	-1.04	0.87	0.89	0	0	0	0	0	0
6/23/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	-0.09	-0.05	0	0	0	0	0	0
6/23/2024 10:00	40504	CRES_T1	7	13	6	0.29	0.59	0.3	0	0	0	0	0	0	0	0
6/23/2024 10:06	52402	GRPA_T2	6	9	3	0.65	0.83	0.18	0	0	0	0	0	0	0	0
6/23/2024 10:06	67603	WARW_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
6/23/2024 10:06	56501	ROCK_T2	1	4	3	1.3	0.65	-0.65	-1.21	-1.04	0	0	0	0	0	0
6/23/2024 10:06	52403	GRPA_T2	37	85	48	0.75	0.82	0.07	0	0	0	0	0	0	0	0
6/23/2024 10:06	16302	ALPA_T2	0	0	0	0	0	0	-0.1	-0.07	0	0	0	0	0	0
6/23/2024 10:06	46302	ROHR_T1	5	7	2	0.4	0.3	-0.1	0.72	0.73	0	0	0	0	0	0
6/23/2024 10:06	52404	GRPA_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
6/23/2024 10:06	52401	GRPA_T2	10	13	3	0.78	0.5	-0.28	0	0	0	0	0	0	0	0
6/23/2024 10:08	67605	WARW_T1	0	0	0	0	0	0	-0.74	-0.71	0	0	0	0	0	0
6/23/2024 10:08	56501	ROCK_T2	1	4	3	1.3	0.65	-0.65	-1.04	-1.04	0	0	0	0	0	0
6/23/2024 10:09	67801	WLAN_T1	27	72	45	0.51	0.37	-0.14	-0.78	-0.77	0	0	0	0	0	0
6/23/2024 10:09	45501	DERR_T2	0	0	0	0	0	0	-0.39	-0.36	2	2	0	1800	1800	0
6/23/2024 10:09	67605	WARW_T1	0	0	0	0	0	0	-0.74	-0.71	0	0	0	0	0	0
6/23/2024 10:09	67804	WLAN_T1	10	10	0	1.49	1.41	-0.08	0	0	0	0	0	0	0	0
6/23/2024 10:10	16103	BING_T2	2	4	2	0.35	0.7	0.35	0	0	0	0	0	0	0	0
6/23/2024 10:10	16302	ALPA_T2	0	0	0	0	0	0	-0.1	-0.07	0	0	0	0	0	0
6/23/2024 10:10	67901	WNHO_T2	44	26	-18	0.3	0.37	0.07	-0.07	-0.07	0	0	0	0	0	0
6/23/2024 10:10	67605	WARW_T1	0	0	0	0	0	0	-1.48	-1.43	0	0	0	0	0	0
6/23/2024 10:10	16102	BING_T2	0	1	1	0	0.8	0.8	-0.3	-0.32	1	1	0	1200	1200	0
6/23/2024 10:10	67903	WNHO_T1	0	0	0	0	0	0	1.11	1.15	1	1	0	1200	1200	0
6/23/2024 10:10	24902	WHHA_T1	0	1	1	0	0.1	0.1	0.67	0.67	0	0	0	0	0	0
6/23/2024 10:10	24901	WHHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 10:10	16101	BING_T2	2	4	2	5.2	3.67	-1.53	0	0	0	0	0	0	0	0
6/23/2024 10:11	46203	DANV_T2	0	1	1	0	0.6	0.6	-2.86	-2.82	0	0	0	0	0	0
6/23/2024 10:11	46206	DANV_T2	1	4	3	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
6/23/2024 10:11	45501	DERR_T2	0	0	0	0	0	0	-0.39	-0.36	2	2	0	1800	1800	0
6/23/2024 10:11	46204	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 10:11	16302	ALPA_T2	0	0	0	0	0	0	-0.1	-0.07	0	0	0	0	0	0
6/23/2024 10:12	24902	WHHA_T1	0	1	1	0	0.1	0.1	0.67	0.67	0	0	0	0	0	0
6/23/2024 10:12	24901	WHHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 10:12	16302	ALPA_T2	0	0	0	0	0	0	-0.1	-0.07	0	0	0	0	0	0
6/23/2024 10:13	46902	MNTG_T2	83	73	-10	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
6/23/2024 10:13	46901	MNTG_T2	100	95	-5	0.43	0.42	-0.01	-0.21	-0.21	1	1	0	1200	1200	0
6/23/2024 10:13	46903	MNTG_T2	203	175	-28	0.46	0.45	-0.01	0	0	0	0	0	0	0	0
6/23/2024 10:13	45501	DERR_T2	0	0	0	0	0	0	-0.39	-0.36	2	2	0	1800	1800	0
6/23/2024 10:14	46206	DANV_T2	1	4	3	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
6/23/2024 10:14	43304	WATS_T2	1	4	3	0.3	0.4	0.1	-0.65	-0.63	0	0	0	0	0	0
6/23/2024 10:14	46204	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 10:14	46203	DANV_T2	0	1	1	0	0.6	0.6	-2.86	-2.82	0	0	0	0	0	0
6/23/2024 10:15	52002	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 10:15	52004	LING_T2	0	1	1	0	0	0	0.06	0.07	0	0	0	0	0	0
6/23/2024 10:15	40101	HUNT_T2	159	72	-87	0.58	0.52	-0.06	-0.25	-0.79	0	0	0	0	0	0
6/23/2024 10:16	47104	MARL_T1	37	52	15	0.91	0.57	-0.34	0	0	0	0	0	0	0	0
6/23/2024 10:16	47101	MARL_T1	304	142	-162	1.03	1.11	0.08	-0.83	-1.56	1	1	0	600	600	0
6/23/2024 10:17	47101	MARL_T1	304	142	-162	1.03	1.11	0.08	-0.83	-1.56	1	1	0	600	600	0
6/23/2024 10:17	64204	KINZ_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/23/2024 10:17	64203	KINZ_T1	0	0	0	0	0	0	-0.42	-0.37	2	2	0	900	900	0
6/23/2024 10:17	47104	MARL_T1	37	52	15	0.91	0.57	-0.34	0	0	0	0	0	0	0	0
6/23/2024 10:17	64202	KINZ_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/23/2024 10:18	47104	MARL_T1	37	52	15	0.91	0.57	-0.34	0	0	0	0	0	0	0	0
6/23/2024 10:18	47101	MARL_T1	304	142	-162	1.03	1.11	0.08	-0.83	-1.56	1	1	0	600	600	0
6/23/2024 10:18	67103	SPRI_T1	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
6/23/2024 10:19	47104	MARL_T1	37	52	15	0.91	0.57	-0.34	0	0	0	0	0	0	0	0
6/23/2024 10:19	47101	MARL_T1	304	142	-162	1.03	1.11	0.08	-0.83	-1.56	1	1	0	600	600	0
6/23/2024 10:20	60501	NMAN_T2	3	3	0	4.17	4.53	0.36	0	0	0	0	0	0	0	0
6/23/2024 10:20	60502	NMAN_T2	0	0	0	0	0	0	-0.2	-0.12	0	0	0	0	0	0
6/23/2024 10:21	64101	REFR_T1	14	11	-3	1.61	0.82	-0.79	0.7	0.74	0	0	0	0	0	0
6/23/2024 10:22	44301	BEAV_T2	23	42	19	0.6	0.63	0.03	-0.5	-0.37	1	1	0	600	600	0
6/23/2024 10:23	44301	BEAV_T2	23	42	19	0.6	0.63	0.03	-0.5	-0.37	1	1	0	600	600	0
6/23/2024 10:23	40101	HUNT_T2	159	72	-87	0.58	0.52	-0.06	-0.79	-0.78	0	0	0	0	0	0
6/23/2024 10:24	46206	DANV_T2	1	5	4	1.5	2.2	0.7	0	0	0	0	0	0	0	0
6/23/2024 10:24	46204	DANV_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/23/2024 10:24	56803	BENV_T1	7	11	4	0.57	0.8	0.23	0	0	0	0	0	0	0	0
6/23/2024 10:24	56801	BENV_T1	0	0	0	0	0	0	-0.69	-0.65	2	2	0	1200	1200	0
6/23/2024 10:24	10801	CHHI_T1	24	93	69	0.55	0.57	0.02	-1.07	-0.96	3	3	0	2100	2100	0
6/23/2024 10:24	46203	DANV_T2	1	1	0	0.6	0	-0.6	-1.41	-1.35	0	0	0	0	0	0
6/23/2024 10:25	10805	CHHI_T2	3	23	20	3.57	1.1	-2.47	-0.44	-0.39	1	1	0	600	600	0
6/23/2024 10:25	10801	CHHI_T1	24	93	69	0.55	0.57	0.02	-1.07	-0.96	3	3	0	2100	2100	0
6/23/2024 10:26	20401	ASHF_T2	9	7	-2	0.66	0.88	0.22	0	0	0	0	0	0	0	0
6/23/2024 10:26	56801	BENV_T1	0	0	0	0	0	0	-0.69	-0.65	2	2	0	1200	1200	0
6/23/2024 10:26	10805	CHHI_T2	3	23	20	3.57	1.1	-2.47	-0.44	-0.39	1	1	0	600	600	0
6/23/2024 10:26	20403	ASHF_T2	0	2	2	0	0	0	-0.12	-0.09	0	0	0	0	0	0
6/23/2024 10:26	56803	BENV_T1	7	11	4	0.57	0.8	0.23	0	0	0	0	0	0	0	0
6/23/2024 10:26	20402	ASHF_T2	12	29	17	1.62	1.3	-0.32	0	0	0	0	0	0	0	0
6/23/2024 10:28	22901	HARW_T1	47	80	33	1.02	1.01	-0.01	-0.29	-0.3	1	1	0	1200	1200	0
6/23/2024 10:28	22903	HARW_T1	8	22	14	0.53	0.87	0.34	0	0	0	0	0	0	0	0
6/23/2024 10:28	22905	HARW_T1	24	45	21	0.43	0.72	0.29	0	0	0	0	0	0	0	0
6/23/2024 10:28	63401	HONY_T1	0	0	0	0	0	0	0.16	0.11	1	1	0	600	600	0
6/23/2024 10:29	10801	CHHI_T1	24	93	69	0.55	0.57	0.02	-1.07	-0.96	3	3	0	2100	2100	0
6/23/2024 10:31	22901	HARW_T1	62	95	33	1.16	0.8	-0.36	-0.59	-0.6	2	2	0	2400	2400	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/23/2024 10:31	22903	HARW_T1	22	22	0	1.06	0.87	-0.19	0	0	0	0	0	0	0	0
6/23/2024 10:31	22905	HARW_T1	40	39	-1	0.59	1.52	0.93	0	0	0	0	0	0	0	0
6/23/2024 10:34	64101	REFR_T1	10	11	1	0.82	2.3	1.48	0.7	0.74	0	0	0	0	0	0
6/23/2024 10:35	60305	TWVA_T2	0	0	0	0	0	0	-1.16	-1.15	2	2	0	2400	2400	0
6/23/2024 10:35	64101	REFR_T1	10	11	1	0.82	2.3	1.48	1.41	1.49	0	0	0	0	0	0
6/23/2024 10:36	64101	REFR_T1	10	11	1	0.82	2.3	1.48	0.74	0.78	0	0	0	0	0	0
6/23/2024 10:38	64101	REFR_T1	10	11	1	0.82	2.3	1.48	0.74	0.78	0	0	0	0	0	0
6/23/2024 10:38	60801	BUCK_T1	0	0	0	0	0	0	-0.48	-0.46	1	1	0	600	600	0
6/23/2024 10:38	61102	BERK_T5	0	0	0	0	0	0	-0.48	-0.37	2	2	0	1200	1200	0
6/23/2024 10:38	61101	BERK_T5	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 10:38	29402	BELT_T1	25	24	-1	0.58	0.61	0.03	0	0	0	0	0	0	0	0
6/23/2024 10:38	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/23/2024 10:39	61304	EARL_T1	0	0	0	0	0	0	0.15	0.2	1	1	0	600	600	0
6/23/2024 10:39	61101	BERK_T5	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 10:39	61102	BERK_T5	0	0	0	0	0	0	-0.48	-0.37	2	2	0	1200	1200	0
6/23/2024 10:39	64101	REFR_T1	10	11	1	0.82	2.3	1.48	1.49	1.57	0	0	0	0	0	0
6/23/2024 10:40	55101	WERT_T1	0	0	0	0	0	0	-1.78	-1.65	3	3	0	2400	2400	0
6/23/2024 10:40	61304	EARL_T1	0	0	0	0	0	0	0.15	0.2	1	1	0	600	600	0
6/23/2024 10:41	61304	EARL_T1	0	0	0	0	0	0	0.15	0.2	1	1	0	600	600	0
6/23/2024 10:41	56803	BENV_T1	8	12	4	0.8	0.98	0.18	0	0	0	0	0	0	0	0
6/23/2024 10:41	56801	BENV_T1	0	2	2	0	0	0	-1.29	-1.27	4	4	0	2400	2400	0
6/23/2024 10:42	16103	BING_T2	4	4	0	1.6	1.73	0.13	-1.19	-1.15	2	2	0	1500	1500	0
6/23/2024 10:42	16102	BING_T2	1	2	1	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
6/23/2024 10:42	29402	BELT_T1	25	24	-1	0.58	0.61	0.03	0	0	0	0	0	0	0	0
6/23/2024 10:42	61501	EPET_T2	1	1	0	6.1	5.8	-0.3	0	0	0	0	0	0	0	0
6/23/2024 10:42	56803	BENV_T1	8	12	4	0.8	0.98	0.18	0	0	0	0	0	0	0	0
6/23/2024 10:42	10801	CHHI_T1	22	92	70	0.57	0.64	0.07	-0.96	-1.01	3	3	0	2100	2100	0
6/23/2024 10:42	64101	REFR_T1	10	11	1	0.82	2.3	1.48	0.74	0.78	0	0	0	0	0	0
6/23/2024 10:42	56801	BENV_T1	0	2	2	0	0	0	-0.65	-0.63	2	2	0	1200	1200	0
6/23/2024 10:42	61506	EPET_T2	0	0	0	0	0	0	-1.55	-1.5	2	2	0	1800	1800	0
6/23/2024 10:42	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/23/2024 10:42	16101	BING_T2	4	10	6	3.68	4.07	0.39	0	0	0	0	0	0	0	0
6/23/2024 10:43	11804	FRAN_T1	78	177	99	0.61	0.7	0.09	1.32	1.45	0	0	0	0	0	0
6/23/2024 10:43	56801	BENV_T1	0	2	2	0	0	0	-0.65	-0.63	2	2	0	1200	1200	0
6/23/2024 10:43	61304	EARL_T1	0	0	0	0	0	0	0.15	0.2	1	1	0	600	600	0
6/23/2024 10:43	21203	ECAR_T1	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
6/23/2024 10:43	56803	BENV_T1	8	12	4	0.8	0.98	0.18	0	0	0	0	0	0	0	0
6/23/2024 10:46	58402	MORO_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/23/2024 10:46	58401	MORO_T1	0	0	0	0	0	0	-1.82	-1.8	3	3	0	2100	2100	0
6/23/2024 10:46	63403	HONY_T2	1	0	-1	0.4	0	-0.4	-0.45	-1.55	1	1	0	600	600	0
6/23/2024 10:48	13503	MCMI_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
6/23/2024 10:49	60502	NMAN_T2	0	0	0	0	0	0	0	-0.24	0	0	0	0	0	0
6/23/2024 10:49	60501	NMAN_T2	3	3	0	3.97	3.7	-0.27	0	0	0	0	0	0	0	0
6/23/2024 10:50	58402	MORO_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/23/2024 10:50	58401	MORO_T1	0	0	0	0	0	0	-1.82	-1.8	3	3	0	2100	2100	0
6/23/2024 10:51	14404	SSLA_T1	1	1	0	2.8	2.7	-0.1	0	0	0	0	0	0	0	0
6/23/2024 10:51	14401	SSLA_T1	1	3	2	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/23/2024 10:51	14403	SSLA_T1	5	18	13	0.3	0.48	0.18	0.34	0.35	2	2	0	1200	1200	0
6/23/2024 10:53	10801	CHHI_T1	89	87	-2	0.66	0.62	-0.04	-1.01	-0.98	3	3	0	2100	2100	0
6/23/2024 10:53	27503	WEIS_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/23/2024 10:53	27502	WEIS_T2	51	68	17	0.77	0.9	0.13	-0.47	-0.39	0	0	0	0	0	0
6/23/2024 10:54	14401	SSLA_T1	1	3	2	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/23/2024 10:54	14403	SSLA_T1	5	18	13	0.3	0.48	0.18	0.34	0.35	2	2	0	1200	1200	0
6/23/2024 10:54	14404	SSLA_T1	1	1	0	2.8	2.7	-0.1	0	0	0	0	0	0	0	0
6/23/2024 10:55	61102	BERK_T5	0	0	0	0	0	0	-0.74	-0.87	4	4	0	2400	2400	0
6/23/2024 10:55	61101	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/23/2024 10:56	46204	DANV_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
6/23/2024 10:56	46206	DANV_T2	2	15	13	1.3	0.68	-0.62	0.27	0.28	1	1	0	1200	1200	0
6/23/2024 10:56	61102	BERK_T5	0	0	0	0	0	0	-1.48	-1.74	8	8	0	4800	4800	0
6/23/2024 10:56	61101	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/23/2024 10:57	46206	DANV_T2	2	15	13	1.3	0.68	-0.62	0.27	0.28	1	1	0	1200	1200	0
6/23/2024 10:57	46204	DANV_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
6/23/2024 10:57	61102	BERK_T5	0	0	0	0	0	0	-1.11	-1.3	6	6	0	3600	3600	0
6/23/2024 10:57	61101	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/23/2024 10:57	41801	GOCI_T2	2	3	1	0.7	0.75	0.05	0	0	1	1	0	900	900	0
6/23/2024 10:57	41802	GOCI_T2	1	2	1	1	0.2	-0.8	0	0	0	0	0	0	0	0
6/23/2024 10:58	41801	GOCI_T2	2	3	1	0.7	0.75	0.05	0	0	1	1	0	900	900	0
6/23/2024 10:58	52401	GRPA_T2	4	10	6	0.25	0.44	0.19	0	0	0	0	0	0	0	0
6/23/2024 10:58	52404	GRPA_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
6/23/2024 10:58	26704	HEMI_T2	0	0	0	0	0	0	-0.56	-0.56	1	1	0	1200	1200	0
6/23/2024 10:58	52403	GRPA_T2	52	68	16	0.61	0.72	0.11	0	0	0	0	0	0	0	0
6/23/2024 10:58	52402	GRPA_T2	7	22	15	0.74	0.64	-0.1	0	0	0	0	0	0	0	0
6/23/2024 10:58	63401	HONY_T1	0	0	0	0	0	0	0.16	0.13	1	1	0	600	600	0
6/23/2024 10:58	41802	GOCI_T2	1	2	1	1	0.2	-0.8	0	0	0	0	0	0	0	0
6/23/2024 10:59	46206	DANV_T2	2	15	13	1.3	0.68	-0.62	0.27	0.28	1	1	0	1200	1200	0
6/23/2024 10:59	46204	DANV_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
6/23/2024 11:01	43202	MVIL_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
6/23/2024 11:01	43201	MVIL_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/23/2024 11:03	43202	MVIL_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
6/23/2024 11:03	43201	MVIL_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/23/2024 11:04	43201	MVIL_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/23/2024 11:04	43202	MVIL_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
6/23/2024 11:04	47101	MARL_T1	148	267	119	1.04	1	-0.04	-3.19	-3.05	2	2	0	1200	1200	0
6/23/2024 11:04	47104	MARL_T1	39	59	20	0.76	0.98	0.22	0	0	0	0	0	0	0	0
6/23/2024 11:06	13601	RICH_T2	4	2	-2	2.28	0	-2.28	0	0	0	0	0	0	0	0
6/23/2024 11:06	13606	RICH_T2	3	18	15	2.67	7.4	4.73	0.23	0.25	0	0	0	0	0	0
6/23/2024 11:07	55101	WERT_T1	0	0	0	0	0	0	-1.64	-1.59	3	3	0	2400	2400	0
6/23/2024 11:07	67801	WLAN_T1	38	73	35	0.39	0.33	-0.06	-1.27	-1.08	0	0	0	0	0	0
6/23/2024 11:07	61102	BERK_T5	0	0	0	0	0	0	-0.43	-0.41	2	2	0	1200	1200	0
6/23/2024 11:07	67804	WLAN_T1	11	11	0	1.48	1.84	0.36	0	0	0	0	0	0	0	0
6/23/2024 11:07	61101	BERK_T5	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:07	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:07	25801	SUTR_T2	1	4	3	0.1	0.3	0.2	-0.21	-0.2	0	0	0	0	0	0
6/23/2024 11:07	67803	WLAN_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:08	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:08	55101	WERT_T1	0	0	0	0	0	0	-3.29	-3.17	6	6	0	4800	4800	0
6/23/2024 11:09	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:09	55101	WERT_T1	0	0	0	0	0	0	-1.64	-1.59	3	3	0	2400	2400	0
6/23/2024 11:10	10204	ALLE_T2	33	46	13	0.41	0.47	0.06	0	0	0	0	0	0	0	0
6/23/2024 11:10	61101	BERK_T5	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:10	61102	BERK_T5	0	0	0	0	0	0	-0.43	-0.41	2	2	0	1200	1200	0
6/23/2024 11:10	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/23/2024 11:10	29402	BELT_T1	15	30	15	0.79	0.86	0.07	0	0	0	0	0	0	0	0
6/23/2024 11:10	10206	ALLE_T2	10	10	0	1.21	1.58	0.37	0	0	0	0	0	0	0	0
6/23/2024 11:10	10102	ALLE_T2	6	9	3	2.4	1.77	-0.63	0	0	0	0	0	0	0	0
6/23/2024 11:11	64101	REFR_T1	10	13	3	2.36	2.51	0.15	0.8	0.8	0	0	0	0	0	0
6/23/2024 11:12	55101	WERT_T1	0	0	0	0	0	0	-1.64	-1.59	3	3	0	2400	2400	0
6/23/2024 11:12	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:12	20603	GRWO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/23/2024 11:12	29402	BELT_T1	15	30	15	0.79	0.86	0.07	0	0	0	0	0	0	0	0
6/23/2024 11:12	20601	GRWO_T2	56	85	29	0.56	0.54	-0.02	0.23	0.24	0	0	0	0	0	0
6/23/2024 11:13	64203	KINZ_T1	0	0	0	0	0	0	-0.35	-0.35	2	2	0	900	900	0
6/23/2024 11:13	64201	KINZ_T1	0	0	0	0	0	0	-0.58	-0.55	4	4	0	2100	2100	0
6/23/2024 11:14	45302	WBER_T2	0	2	2	0	0	0	3.31	3.39	0	0	0	0	0	0
6/23/2024 11:14	45303	WBER_T2	4	1	-3	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
6/23/2024 11:14	64203	KINZ_T1	0	0	0	0	0	0	-0.35	-0.35	2	2	0	900	900	0
6/23/2024 11:15	64302	LINC_T2	3	7	4	0.47	0.23	-0.24	1.42	1.5	0	0	0	0	0	0
6/23/2024 11:17	52401	GRPA_T2	10	64	54	0.55	0.38	-0.17	0	0	0	0	0	0	0	0
6/23/2024 11:17	52404	GRPA_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
6/23/2024 11:17	52402	GRPA_T2	21	76	55	0.52	0.64	0.12	0	0	0	0	0	0	0	0
6/23/2024 11:17	52403	GRPA_T2	67	101	34	1.32	1.5	0.18	-0.39	-0.38	0	0	0	0	0	0
6/23/2024 11:19	66505	SMAN_T2	2	25	23	0.8	0.18	-0.62	0	0	0	0	0	0	0	0
6/23/2024 11:19	66503	SMAN_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/23/2024 11:19	66504	SMAN_T2	7	10	3	0.83	0.3	-0.53	-0.37	-0.3	1	1	0	1200	1200	0
6/23/2024 11:20	57403	SPAN_T1	1	3	2	0.5	0.1	-0.4	0.56	-0.26	0	0	0	0	0	0
6/23/2024 11:20	57401	SPAN_T1	9	27	18	0.38	0.48	0.1	0	0	0	0	0	0	0	0
6/23/2024 11:20	58402	MORO_T1	0	0	0	0	0	0	-1.07	-1.09	4	4	0	2850	2850	0
6/23/2024 11:22	46302	ROHR_T1	4	7	3	0.4	0.5	0.1	0.38	0.39	0	0	0	0	0	0
6/23/2024 11:24	12305	LANA_T2	12	26	14	0.73	0.77	0.04	0	0	0	0	0	0	0	0
6/23/2024 11:24	12301	LANA_T2	0	0	0	0	0	0	-2	-1.97	1	1	0	1200	1200	0
6/23/2024 11:24	56803	BENV_T1	10	11	1	0.97	0.96	-0.01	0	0	0	0	0	0	0	0
6/23/2024 11:24	12302	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:24	56801	BENV_T1	4	7	3	1.03	1.2	0.17	-1.84	-1.82	6	6	0	3600	3600	0
6/23/2024 11:24	12304	LANA_T2	67	129	62	0.56	0.81	0.25	0	0	0	0	0	0	0	0
6/23/2024 11:25	56803	BENV_T1	10	11	1	0.97	0.96	-0.01	0	0	0	0	0	0	0	0
6/23/2024 11:25	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/23/2024 11:25	29402	BELT_T1	14	30	16	0.89	0.74	-0.15	0	0	0	0	0	0	0	0
6/23/2024 11:25	56801	BENV_T1	4	7	3	1.03	1.2	0.17	-0.61	-0.61	2	2	0	1200	1200	0
6/23/2024 11:26	56803	BENV_T1	10	11	1	0.97	0.96	-0.01	0	0	0	0	0	0	0	0
6/23/2024 11:26	10102	ALLE_T2	7	9	2	1.77	2.04	0.27	0	0	0	0	0	0	0	0
6/23/2024 11:26	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:26	10204	ALLE_T2	29	41	12	0.49	0.75	0.26	0	0	0	0	0	0	0	0
6/23/2024 11:26	10206	ALLE_T2	10	10	0	1.59	1.71	0.12	0	0	0	0	0	0	0	0
6/23/2024 11:26	56801	BENV_T1	4	7	3	1.03	1.2	0.17	-1.23	-1.21	4	4	0	2400	2400	0
6/23/2024 11:28	56801	BENV_T1	4	7	3	1.03	1.2	0.17	-1.23	-1.21	4	4	0	2400	2400	0
6/23/2024 11:28	56803	BENV_T1	10	11	1	0.97	0.96	-0.01	0	0	0	0	0	0	0	0
6/23/2024 11:29	20402	ASHF_T2	56	220	164	0.95	0.68	-0.27	0	0	0	0	0	0	0	0
6/23/2024 11:29	45302	WBER_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/23/2024 11:29	20401	ASHF_T2	20	76	56	0.59	0.69	0.1	0	0	0	0	0	0	0	0
6/23/2024 11:29	20403	ASHF_T2	14	10	-4	0.58	0.43	-0.15	-0.02	0	0	0	0	0	0	0
6/23/2024 11:29	45303	WBER_T2	1	0	-1	0.1	0	-0.1	-0.21	-0.19	0	0	0	0	0	0
6/23/2024 11:30	52004	LING_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:30	52006	LING_T2	6	6	0	1.5	0.95	-0.55	0	0	0	0	0	0	0	0
6/23/2024 11:30	52002	LING_T2	11	5	-6	0.54	0	-0.54	0.11	0.14	0	0	0	0	0	0
6/23/2024 11:31	52006	LING_T2	6	6	0	1.5	0.95	-0.55	0	0	0	0	0	0	0	0
6/23/2024 11:31	52002	LING_T2	11	5	-6	0.54	0	-0.54	0.22	0.28	0	0	0	0	0	0
6/23/2024 11:31	52004	LING_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:32	52002	LING_T2	11	5	-6	0.54	0	-0.54	0.11	0.14	0	0	0	0	0	0
6/23/2024 11:32	52004	LING_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:32	40101	HUNT_T2	46	269	223	0.47	0.56	0.09	-0.76	-0.76	0	0	0	0	0	0
6/23/2024 11:32	52006	LING_T2	6	6	0	1.5	0.95	-0.55	0	0	0	0	0	0	0	0
6/23/2024 11:33	46101	MACI_T2	0	0	0	0	0	0	-0.33	-0.34	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/23/2024 11:34	66504	SMAN_T2	10	2	-8	0.71	0	-0.71	-0.59	-2.89	2	2	0	2400	2400	0
6/23/2024 11:34	52006	LING_T2	6	6	0	1.5	0.95	-0.55	0	0	0	0	0	0	0	0
6/23/2024 11:34	66505	SMAN_T2	24	19	-5	0.44	0.17	-0.27	0	0	0	0	0	0	0	0
6/23/2024 11:34	66503	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/23/2024 11:34	52004	LING_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:34	52002	LING_T2	11	5	-6	0.54	0	-0.54	0.11	0.14	0	0	0	0	0	0
6/23/2024 11:35	66503	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/23/2024 11:35	66504	SMAN_T2	10	2	-8	0.71	0	-0.71	-0.3	-1.44	1	1	0	1200	1200	0
6/23/2024 11:35	66505	SMAN_T2	24	19	-5	0.44	0.17	-0.27	0	0	0	0	0	0	0	0
6/23/2024 11:37	67602	WARW_T2	1	2	1	0.6	0	-0.6	0.67	0.66	4	4	0	3000	3000	0
6/23/2024 11:38	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:38	56801	BENV_T1	7	7	0	1.23	0.74	-0.49	-0.61	-0.6	2	2	0	1200	1200	0
6/23/2024 11:38	55101	WERT_T1	0	0	0	0	0	0	-2.41	-2.44	4	4	0	3300	3300	0
6/23/2024 11:38	56803	BENV_T1	7	17	10	1.13	1.48	0.35	0	0	0	0	0	0	0	0
6/23/2024 11:39	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:39	67602	WARW_T2	1	2	1	0.6	0	-0.6	1.01	0.99	6	6	0	4500	4500	0
6/23/2024 11:39	55101	WERT_T1	0	0	0	0	0	0	-4.83	-4.87	8	8	0	6600	6600	0
6/23/2024 11:40	55101	WERT_T1	0	0	0	0	0	0	-4.83	-4.87	8	8	0	6600	6600	0
6/23/2024 11:40	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:41	41304	FISH_T2	1	1	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
6/23/2024 11:41	41302	FISH_T2	17	19	2	3.5	3.47	-0.03	0	0	0	0	0	0	0	0
6/23/2024 11:42	20603	GRWO_T2	0	0	0	0	0	0	-0.22	-0.21	1	1	0	900	900	0
6/23/2024 11:42	20601	GRWO_T2	85	137	52	0.65	0.88	0.23	0	0	0	0	0	0	0	0
6/23/2024 11:42	43304	WATS_T2	7	13	6	0.3	0.27	-0.03	-0.51	-0.48	0	0	0	0	0	0
6/23/2024 11:43	41304	FISH_T2	1	1	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
6/23/2024 11:43	41302	FISH_T2	17	19	2	3.5	3.47	-0.03	0	0	0	0	0	0	0	0
6/23/2024 11:43	41902	REED_T1	111	115	4	0.6	0.48	-0.12	0.5	-0.36	1	1	0	900	900	0
6/23/2024 11:43	22901	HARW_T1	131	40	-91	1.02	0.74	-0.28	-1.64	-1.62	1	1	0	1200	1200	0
6/23/2024 11:43	22905	HARW_T1	50	68	18	1.06	0.68	-0.38	0	0	0	0	0	0	0	0
6/23/2024 11:43	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:43	22903	HARW_T1	25	27	2	1.98	2.75	0.77	0	0	0	0	0	0	0	0
6/23/2024 11:43	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:43	22904	HARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/23/2024 11:44	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:44	52401	GRPA_T2	6	85	79	0.52	0.61	0.09	0	0	0	0	0	0	0	0
6/23/2024 11:44	22904	HARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/23/2024 11:44	22901	HARW_T1	131	40	-91	1.02	0.74	-0.28	-1.64	-1.62	1	1	0	1200	1200	0
6/23/2024 11:44	41801	GOCI_T2	5	5	0	0.84	0.85	0.01	0	0	1	1	0	900	900	0
6/23/2024 11:44	22903	HARW_T1	25	27	2	1.98	2.75	0.77	0	0	0	0	0	0	0	0
6/23/2024 11:44	41902	REED_T1	111	115	4	0.6	0.48	-0.12	0.5	-0.36	1	1	0	900	900	0
6/23/2024 11:44	52402	GRPA_T2	11	78	67	0.73	0.51	-0.22	0	0	0	0	0	0	0	0
6/23/2024 11:44	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:44	52403	GRPA_T2	73	117	44	1.46	1.84	0.38	-0.37	-0.36	0	0	0	0	0	0
6/23/2024 11:44	41802	GOCI_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/23/2024 11:44	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:44	22905	HARW_T1	50	68	18	1.06	0.68	-0.38	0	0	0	0	0	0	0	0
6/23/2024 11:45	64202	KINZ_T1	2	4	2	1.5	2.8	1.3	0	0	0	0	0	0	0	0
6/23/2024 11:45	41802	GOCI_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:45	64201	KINZ_T1	2	2	0	0.2	0	-0.2	-0.52	-0.47	4	4	0	2100	2100	0
6/23/2024 11:45	41801	GOCI_T2	2	5	3	0.85	0.55	-0.3	0	0	1	1	0	900	900	0
6/23/2024 11:46	41302	FISH_T2	19	18	-1	5.27	3.47	-1.8	0	0	0	0	0	0	0	0
6/23/2024 11:46	42902	MIDD_T2	51	53	2	1.04	1.23	0.19	-0.11	-0.08	0	0	0	0	0	0
6/23/2024 11:46	42903	MIDD_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
6/23/2024 11:46	41304	FISH_T2	1	5	4	0	0	0	-0.11	-0.1	0	0	0	0	0	0
6/23/2024 11:47	42902	MIDD_T2	51	53	2	1.04	1.23	0.19	-0.22	-0.17	0	0	0	0	0	0
6/23/2024 11:47	42903	MIDD_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
6/23/2024 11:48	64202	KINZ_T1	2	4	2	1.5	2.8	1.3	0	0	0	0	0	0	0	0
6/23/2024 11:48	64201	KINZ_T1	2	2	0	0.2	0	-0.2	-0.52	-0.47	4	4	0	2100	2100	0
6/23/2024 11:48	42902	MIDD_T2	51	53	2	1.04	1.23	0.19	-0.11	-0.08	0	0	0	0	0	0
6/23/2024 11:48	59003	MIFF_T1	2	6	4	0.3	0	-0.3	-0.09	-0.08	0	0	0	0	0	0
6/23/2024 11:48	42903	MIDD_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
6/23/2024 11:50	54602	SUMM_T2	0	7	7	0	0.77	0.77	0	0	0	0	0	0	0	0
6/23/2024 11:50	42902	MIDD_T2	51	53	2	1.04	1.23	0.19	-0.22	-0.17	0	0	0	0	0	0
6/23/2024 11:50	54601	SUMM_T2	1	3	2	0.5	0.7	0.2	0	0	3	3	0	3000	3000	0
6/23/2024 11:50	42903	MIDD_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
6/23/2024 11:56	46206	DANV_T2	24	34	10	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
6/23/2024 11:56	46204	DANV_T2	24	62	38	0.41	0.37	-0.04	0	0	0	0	0	0	0	0
6/23/2024 11:56	46203	DANV_T2	0	0	0	0	0	0	-2.23	-2.22	0	0	0	0	0	0
6/23/2024 11:56	46205	DANV_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:57	46203	DANV_T2	0	0	0	0	0	0	-2.23	-2.22	0	0	0	0	0	0
6/23/2024 11:57	46206	DANV_T2	24	34	10	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
6/23/2024 11:57	64202	KINZ_T1	2	4	2	1.5	2.8	1.3	0	0	0	0	0	0	0	0
6/23/2024 11:57	64203	KINZ_T1	0	0	0	0	0	0	-0.35	-1.4	2	3	1	900	2100	1200
6/23/2024 11:57	46204	DANV_T2	24	62	38	0.41	0.37	-0.04	0	0	0	0	0	0	0	0
6/23/2024 11:57	46205	DANV_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 11:57	64201	KINZ_T1	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/23/2024 11:58	64202	KINZ_T1	2	4	2	1.5	2.8	1.3	0	0	0	0	0	0	0	0
6/23/2024 11:58	64201	KINZ_T1	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/23/2024 11:58	64203	KINZ_T1	0	0	0	0	0	0	-0.35	-1.4	2	3	1	900	2100	1200
6/23/2024 12:00	47002	HUGH_T2	15	13	-2	3.39	1.2	-2.19	0	0	0	0	0	0	0	0
6/23/2024 12:00	47001	HUGH_T2	3	4	1	7.4	7.03	-0.37	-2.02	-1.95	2	2	0	1800	1800	0
6/23/2024 12:03	52004	LING_T2	1	0	-1	1	0	-1	0.21	0.22	0	0	0	0	0	0
6/23/2024 12:03	52006	LING_T2	6	2	-4	1.45	0	-1.45	0	0	0	0	0	0	0	0
6/23/2024 12:03	45702	LIND_T2	0	0	0	0	0	0	-1.26	-1.25	0	0	0	0	0	0
6/23/2024 12:03	52002	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 12:05	43202	MVIL_T2	0	4	4	0	0.4	0.4	-0.26	-0.26	0	0	0	0	0	0
6/23/2024 12:06	67703	WERN_T2	4	8	4	0.38	0.3	-0.08	-0.01	-0.01	1	1	0	900	900	0
6/23/2024 12:06	40302	TAMA_T3	0	0	0	0	0	0	-0.98	-2.21	1	1	0	1200	1200	0
6/23/2024 12:06	48303	ORWI_T2	0	0	0	0	0	0	0.97	0.97	0	0	0	0	0	0
6/23/2024 12:06	48302	ORWI_T2	9	30	21	0.3	0.38	0.08	0	0	0	0	0	0	0	0
6/23/2024 12:06	57403	SPAN_T1	1	1	0	0.2	0	-0.2	-0.24	-0.23	0	0	0	0	0	0
6/23/2024 12:06	57401	SPAN_T1	10	16	6	0.26	0.32	0.06	0	0	0	0	0	0	0	0
6/23/2024 12:06	40301	TAMA_T3	15	1	-14	0.33	0	-0.33	0	0	0	0	0	0	0	0
6/23/2024 12:07	57401	SPAN_T1	10	16	6	0.26	0.32	0.06	0	0	0	0	0	0	0	0
6/23/2024 12:07	57403	SPAN_T1	1	1	0	0.2	0	-0.2	-0.23	-0.22	0	0	0	0	0	0
6/23/2024 12:08	67703	WERN_T2	4	8	4	0.38	0.3	-0.08	-0.01	-0.01	1	1	0	900	900	0
6/23/2024 12:08	67602	WARW_T2	1	4	3	0.1	0	-0.1	0.32	0.35	2	2	0	1500	1500	0
6/23/2024 12:08	67605	WARW_T1	0	0	0	0	0	0	-0.59	-0.72	0	0	0	0	0	0
6/23/2024 12:08	67605	WARW_T1	0	0	0	0	0	0	-0.59	-0.72	0	0	0	0	0	0
6/23/2024 12:08	67605	WARW_T1	0	0	0	0	0	0	-0.59	-0.72	0	0	0	0	0	0
6/23/2024 12:08	67605	WARW_T1	0	0	0	0	0	0	-0.59	-0.72	0	0	0	0	0	0
6/23/2024 12:09	67605	WARW_T1	0	0	0	0	0	0	-0.59	-0.72	0	0	0	0	0	0
6/23/2024 12:10	67602	WARW_T2	1	4	3	0.1	0	-0.1	0.32	0.35	2	2	0	1500	1500	0
6/23/2024 12:10	67605	WARW_T1	0	0	0	0	0	0	-1.18	-1.44	0	0	0	0	0	0
6/23/2024 12:14	40902	JESH_T1	0	5	5	0	0.47	0.47	-1.99	-1.96	3	3	0	1800	1800	0
6/23/2024 12:14	40901	JESH_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
6/23/2024 12:14	40903	JESH_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 12:15	11507	FREE_T2	45	86	41	0.84	0.79	-0.05	0.48	0.58	1	1	0	600	600	0
6/23/2024 12:15	40101	HUNT_T2	293	223	-70	0.69	0.48	-0.21	-0.74	-0.74	0	0	0	0	0	0
6/23/2024 12:16	40901	JESH_T1	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
6/23/2024 12:16	40902	JESH_T1	5	3	-2	1.1	0.3	-0.8	-1.99	-1.96	3	3	0	1800	1800	0
6/23/2024 12:16	47104	MARL_T1	94	101	7	1.12	1	-0.12	0	0	0	0	0	0	0	0
6/23/2024 12:16	40903	JESH_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 12:16	47101	MARL_T1	452	565	113	1.1	1.02	-0.08	-1.41	-1.44	1	1	0	600	600	0
6/23/2024 12:18	47401	PENS_T1	6	7	1	0.97	0.87	-0.1	1.42	1.4	0	0	0	0	0	0
6/23/2024 12:18	47402	PENS_T1	11	11	0	1.15	0.13	-1.02	0	0	0	0	0	0	0	0
6/23/2024 12:18	47403	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/23/2024 12:19	47401	PENS_T1	6	7	1	0.97	0.87	-0.1	1.42	1.4	0	0	0	0	0	0
6/23/2024 12:19	11407	FARM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 12:19	11405	FARM_T1	9	17	8	0.53	0.64	0.11	0	0	0	0	0	0	0	0
6/23/2024 12:19	11402	FARM_T1	7	20	13	1.16	0.97	-0.19	0	0	0	0	0	0	0	0
6/23/2024 12:19	11406	FARM_T1	1	5	4	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
6/23/2024 12:19	47402	PENS_T1	11	11	0	1.15	0.13	-1.02	0	0	0	0	0	0	0	0
6/23/2024 12:19	40101	HUNT_T2	293	223	-70	0.69	0.48	-0.21	-0.74	-0.74	0	0	0	0	0	0
6/23/2024 12:19	11403	FARM_T1	0	0	0	0	0	0	0.02	0.03	1	1	0	600	600	0
6/23/2024 12:19	47403	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/23/2024 12:21	11406	FARM_T1	1	5	4	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
6/23/2024 12:21	47403	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/23/2024 12:21	47402	PENS_T1	11	11	0	1.15	0.13	-1.02	0	0	0	0	0	0	0	0
6/23/2024 12:21	47401	PENS_T1	6	7	1	0.97	0.87	-0.1	2.8	2.86	0	0	0	0	0	0
6/23/2024 12:21	11407	FARM_T1	0	1	1	0	0	0	0.31	0.32	0	0	0	0	0	0
6/23/2024 12:21	11405	FARM_T1	9	17	8	0.53	0.64	0.11	0	0	0	0	0	0	0	0
6/23/2024 12:21	11402	FARM_T1	7	20	13	1.16	0.97	-0.19	0	0	0	0	0	0	0	0
6/23/2024 12:23	67703	WERN_T2	2	9	7	0.25	0.77	0.52	-0.01	-0.01	1	1	0	900	900	0
6/23/2024 12:25	60801	BUCK_T1	0	1	1	0	0	0	-1.49	-0.72	2	2	0	1200	1200	0
6/23/2024 12:25	44301	BEAV_T2	53	51	-2	0.95	0.72	-0.23	-0.25	-0.23	1	1	0	600	600	0
6/23/2024 12:25	44302	BEAV_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/23/2024 12:26	46206	DANV_T2	27	32	5	0.39	0.39	0	0	0	0	0	0	0	0	0
6/23/2024 12:26	46203	DANV_T2	0	1	1	0	0	0	-2.21	-2.17	0	0	0	0	0	0
6/23/2024 12:26	46204	DANV_T2	57	121	64	0.4	0.46	0.06	0	0	0	0	0	0	0	0
6/23/2024 12:26	46205	DANV_T2	5	3	-2	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
6/23/2024 12:27	46205	DANV_T2	5	3	-2	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
6/23/2024 12:27	46204	DANV_T2	57	121	64	0.4	0.46	0.06	0	0	0	0	0	0	0	0
6/23/2024 12:27	46206	DANV_T2	27	32	5	0.39	0.39	0	0	0	0	0	0	0	0	0
6/23/2024 12:27	46203	DANV_T2	0	1	1	0	0	0	-2.21	-2.17	0	0	0	0	0	0
6/23/2024 12:28	15001	BLMO_T1	7	29	22	0.76	0.49	-0.27	0	0	0	0	0	0	0	0
6/23/2024 12:29	61702	ELIZ_T2	8	9	1	0.7	0.55	-0.15	-1.15	-1.15	2	2	0	1500	1500	0
6/23/2024 12:29	58803	COCO_T1	21	13	-8	0.45	0.53	0.08	-0.51	-0.52	1	1	0	600	600	0
6/23/2024 12:29	61704	ELIZ_T2	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/23/2024 12:32	59301	MCAL_T1	5	10	5	0.4	0.93	0.53	-1.03	-1.03	0	0	0	0	0	0
6/23/2024 12:32	59302	MCAL_T1	6	11	5	0.78	0.63	-0.15	0	0	0	0	0	0	0	0
6/23/2024 12:34	47401	PENS_T1	7	10	3	1.1	0.87	-0.23	1.4	1.43	0	0	0	0	0	0
6/23/2024 12:34	47402	PENS_T1	11	7	-4	0.88	0.15	-0.73	0	0	0	0	0	0	0	0
6/23/2024 12:34	59003	MIFF_T1	6	0	-6	0.68	0	-0.68	-0.06	-0.31	0	0	0	0	0	0
6/23/2024 12:34	47403	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/23/2024 12:35	47403	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/23/2024 12:35	47401	PENS_T1	7	10	3	1.1	0.87	-0.23	2.8	2.86	0	0	0	0	0	0
6/23/2024 12:35	47402	PENS_T1	11	7	-4	0.88	0.15	-0.73	0	0	0	0	0	0	0	0
6/23/2024 12:36	56504	ROCK_T2	7	11	4	1.79	0.6	-1.19	2.39	2.45	0	0	0	0	0	0
6/23/2024 12:36	56501	ROCK_T2	3	7	4	0.6	0.92	0.32	0	0	0	0	0	0	0	0
6/23/2024 12:37	47401	PENS_T1	7	10	3	1.1	0.87	-0.23	1.43	1.87	0	0	0	0	0	0
6/23/2024 12:37	47403	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/23/2024 12:37	66901	SHIL_T2	0	0	0	0	0	0	-1.38	-1.38	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/23/2024 12:37	47402	PENS_T1	11	7	-4	0.88	0.15	-0.73	0	0	0	0	0	0	0	0
6/23/2024 12:38	61301	EARL_T1	0	0	0	0	0	0	-1.19	-1.18	2	2	0	1800	1800	0
6/23/2024 12:38	66901	SHIL_T2	0	0	0	0	0	0	-1.38	-1.38	0	0	0	0	0	0
6/23/2024 12:39	45502	DERR_T2	5	5	0	0.66	0	-0.66	0	0	0	0	0	0	0	0
6/23/2024 12:39	64305	LINC_T1	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
6/23/2024 12:39	45501	DERR_T2	5	26	21	0.46	0.28	-0.18	-0.26	-0.24	2	2	0	1800	1800	0
6/23/2024 12:40	45502	DERR_T2	5	5	0	0.66	0	-0.66	0	0	0	0	0	0	0	0
6/23/2024 12:40	45501	DERR_T2	5	26	21	0.46	0.28	-0.18	-0.26	-0.24	2	2	0	1800	1800	0
6/23/2024 12:40	56504	ROCK_T2	7	11	4	1.79	0.6	-1.19	0.61	0.63	0	0	0	0	0	0
6/23/2024 12:40	56501	ROCK_T2	3	7	4	0.6	0.92	0.32	0	0	0	0	0	0	0	0
6/23/2024 12:41	42201	SHEN_T2	0	0	0	0	0	0	0.34	0.33	1	1	0	600	600	0
6/23/2024 12:41	63501	HEID_TBK1-2	0	0	0	0	0	0	0.54	0.56	1	1	0	900	900	0
6/23/2024 12:42	45501	DERR_T2	5	26	21	0.46	0.28	-0.18	-0.26	-0.24	2	2	0	1800	1800	0
6/23/2024 12:42	42201	SHEN_T2	0	0	0	0	0	0	0.34	0.33	1	1	0	600	600	0
6/23/2024 12:42	45502	DERR_T2	5	5	0	0.66	0	-0.66	0	0	0	0	0	0	0	0
6/23/2024 12:44	56504	ROCK_T2	7	11	4	1.79	0.6	-1.19	0	0	0	0	0	0	0	0
6/23/2024 12:44	56501	ROCK_T2	3	7	4	0.6	0.92	0.32	-1.73	-1.7	0	0	0	0	0	0
6/23/2024 12:44	46802	HEPB_T1	1	1	0	0.6	0.2	-0.4	0.23	0.24	0	0	0	0	0	0
6/23/2024 12:46	20601	GRWO_T2	144	127	-17	1.08	0.92	-0.16	0.3	0.31	0	0	0	0	0	0
6/23/2024 12:48	44203	POIN_T2	66	71	5	0.94	0.82	-0.12	0.43	0.5	1	1	0	900	900	0
6/23/2024 12:48	40901	JESH_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
6/23/2024 12:48	40903	JESH_T1	0	7	7	0	0.2	0.2	0	0	0	0	0	0	0	0
6/23/2024 12:48	40902	JESH_T1	1	1	0	0.3	0	-0.3	-1.93	-1.9	3	3	0	1800	1800	0
6/23/2024 12:48	44202	POIN_T2	0	0	0	0	0	0	-0.54	-0.52	1	1	0	1200	1200	0
6/23/2024 12:49	44202	POIN_T2	0	0	0	0	0	0	-0.54	-0.52	1	1	0	1200	1200	0
6/23/2024 12:49	44203	POIN_T2	66	71	5	0.94	0.82	-0.12	0	0	0	0	0	0	0	0
6/23/2024 12:50	49803	UNIV_T1	0	0	0	0	0	0	-1.41	-1.41	0	0	0	0	0	0
6/23/2024 12:50	54701	NEBL_T1	25	74	49	0.58	0.48	-0.1	0	0	1	1	0	600	600	0
6/23/2024 12:50	49804	UNIV_T1	3	2	-1	0.63	0.8	0.17	0	0	0	0	0	0	0	0
6/23/2024 12:52	48301	ORWI_T1	2	5	3	3.75	1.62	-2.13	-0.43	-0.42	1	1	0	900	900	0
6/23/2024 12:58	20601	GRWO_T2	144	127	-17	1.08	0.92	-0.16	0.31	0.32	0	0	0	0	0	0
6/23/2024 12:59	66901	SHIL_T2	0	0	0	0	0	0	-1.38	-1.37	0	0	0	0	0	0
6/23/2024 12:59	46801	HEPB_T2	2	1	-1	0.25	0.2	-0.05	0.3	0.32	0	0	0	0	0	0
6/23/2024 13:01	22905	HARW_T1	44	40	-4	0.67	0.62	-0.05	0	0	0	0	0	0	0	0
6/23/2024 13:01	22903	HARW_T1	16	27	11	0.75	1.18	0.43	0	0	0	0	0	0	0	0
6/23/2024 13:01	22901	HARW_T1	8	5	-3	0.44	0	-0.44	-1.51	-1.48	1	1	0	1200	1200	0
6/23/2024 13:03	44203	POIN_T2	57	71	14	0.97	0.82	-0.15	0.5	0.47	1	1	0	900	900	0
6/23/2024 13:05	56504	ROCK_T2	11	23	12	1.09	0.4	-0.69	0.63	0.64	0	0	0	0	0	0
6/23/2024 13:05	54602	SUMM_T2	3	14	11	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
6/23/2024 13:05	67703	WERN_T2	8	20	12	0.41	0.45	0.04	-0.01	-0.01	1	1	0	900	900	0
6/23/2024 13:05	57401	SPAN_T1	4	1	-3	0.15	0	-0.15	-1.53	-3.18	2	4	2	1200	3000	1800
6/23/2024 13:05	56501	ROCK_T2	6	9	3	0.95	0.58	-0.37	0	0	0	0	0	0	0	0
6/23/2024 13:05	54601	SUMM_T2	7	4	-3	0.67	1.5	0.83	0	0	3	3	0	3000	3000	0
6/23/2024 13:06	54601	SUMM_T2	7	4	-3	0.67	1.5	0.83	0	0	6	6	0	6000	6000	0
6/23/2024 13:06	57401	SPAN_T1	4	1	-3	0.15	0	-0.15	-1.53	-3.18	2	4	2	1200	3000	1800
6/23/2024 13:06	54602	SUMM_T2	3	14	11	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
6/23/2024 13:07	44203	POIN_T2	57	71	14	0.97	0.82	-0.15	0.47	0.52	1	1	0	900	900	0
6/23/2024 13:07	46901	MNTG_T2	8	10	2	0.33	0.34	0.01	0.19	0.16	1	1	0	1200	1200	0
6/23/2024 13:07	46902	MNTG_T2	11	9	-2	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
6/23/2024 13:07	46903	MNTG_T2	4	3	-1	0.38	0.37	-0.01	0	0	0	0	0	0	0	0
6/23/2024 13:08	15001	BLMO_T1	6	21	15	0.78	0.61	-0.17	0	0	0	0	0	0	0	0
6/23/2024 13:08	54602	SUMM_T2	3	14	11	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
6/23/2024 13:08	54601	SUMM_T2	7	4	-3	0.67	1.5	0.83	0	0	3	3	0	3000	3000	0
6/23/2024 13:09	54602	SUMM_T2	3	14	11	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
6/23/2024 13:09	15001	BLMO_T1	6	21	15	0.78	0.61	-0.17	0	0	0	0	0	0	0	0
6/23/2024 13:09	57401	SPAN_T1	4	1	-3	0.15	0	-0.15	-4.78	-4.61	6	6	0	4500	4500	0
6/23/2024 13:09	54601	SUMM_T2	7	4	-3	0.67	1.5	0.83	0	0	3	3	0	3000	3000	0
6/23/2024 13:10	57401	SPAN_T1	4	1	-3	0.15	0	-0.15	-1.59	-1.54	2	2	0	1500	1500	0
6/23/2024 13:12	15001	BLMO_T1	6	21	15	0.78	0.61	-0.17	0	0	0	0	0	0	0	0
6/23/2024 13:13	11507	FREE_T2	40	49	9	0.63	0.78	0.15	0.43	0.45	1	1	0	600	600	0
6/23/2024 13:13	10801	OHHI_T1	212	217	5	2.91	3.16	0.25	-0.69	-0.66	3	3	0	2100	2100	0
6/23/2024 13:15	64202	KINZ_T1	2	11	9	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
6/23/2024 13:15	64201	KINZ_T1	4	1	-3	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/23/2024 13:15	64204	KINZ_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/23/2024 13:15	64203	KINZ_T1	0	0	0	0	0	0	-1.35	-1.35	3	3	0	2100	2100	0
6/23/2024 13:19	46302	ROHR_T1	11	8	-3	0.85	0.88	0.03	0	0	0	0	0	0	0	0
6/23/2024 13:19	46301	ROHR_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
6/23/2024 13:23	67601	WARW_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
6/23/2024 13:23	67602	WARW_T2	5	9	4	0.62	0.48	-0.14	0	0	0	0	0	0	0	0
6/23/2024 13:24	61304	EARL_T1	0	0	0	0	0	0	0.39	0.38	1	1	0	600	600	0
6/23/2024 13:24	67602	WARW_T2	5	9	4	0.62	0.48	-0.14	0.81	0.84	4	4	0	3000	3000	0
6/23/2024 13:26	61701	ELIZ_T1	1	1	0	1.5	1	-0.5	0.74	0.75	0	0	0	0	0	0
6/23/2024 13:27	12302	LANA_T2	6	13	7	0.25	0.29	0.04	-1.55	-1.53	3	3	0	2700	2700	0
6/23/2024 13:27	12304	LANA_T2	203	236	33	1.24	1.17	-0.07	0	0	0	0	0	0	0	0
6/23/2024 13:27	12301	LANA_T2	5	6	1	0.32	0.4	0.08	0	0	0	0	0	0	0	0
6/23/2024 13:27	12305	LANA_T2	28	40	12	0.76	0.8	0.04	0	0	0	0	0	0	0	0
6/23/2024 13:28	61701	ELIZ_T1	1	1	0	1.5	1	-0.5	0.74	0.75	0	0	0	0	0	0
6/23/2024 13:29	63802	HEMP_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
6/23/2024 13:29	63804	HEMP_T1	2	1	-1	3.6	6.9	3.3	0	0	0	0	0	0	0	0
6/23/2024 13:30	40101	HUNT_T2	164	180	16	0.55	0.46	-0.09	-0.71	-0.7	0	0	0	0	0	0
6/23/2024 13:30	63804	HEMP_T1	1	1	0	7	6.9	-0.1	0	0	0	0	0	0	0	0
6/23/2024 13:30	63802	HEMP_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
6/23/2024 13:32	65001	NEFF_T2	0	0	0	0	0	0	-0.09	0.01	1	1	0	1200	1200	0
6/23/2024 13:33	13606	RICH_T2	18	22	4	0.97	0.98	0.01	0	0	0	0	0	0	0	0
6/23/2024 13:33	13601	RICH_T2	1	6	5	0.4	0.23	-0.17	1.14	1.16	1	1	0	600	600	0
6/23/2024 13:35	56504	ROCK_T2	21	15	-6	0.36	0.26	-0.1	0	0	0	0	0	0	0	0
6/23/2024 13:35	61701	ELIZ_T1	1	1	0	1	1	0	0.74	0.75	0	0	0	0	0	0
6/23/2024 13:35	12603	MACA_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
6/23/2024 13:35	12601	MACA_T1	8	5	-3	0.99	1.04	0.05	1.73	1.7	0	0	0	0	0	0
6/23/2024 13:35	12606	MACA_T1	135	158	23	1.74	1.79	0.05	0	0	0	0	0	0	0	0
6/23/2024 13:35	12602	MACA_T1	5	16	11	0.74	0.64	-0.1	0	0	0	0	0	0	0	0
6/23/2024 13:35	56501	ROCK_T2	8	128	120	0.5	0.26	-0.24	-1.65	-2.88	0	0	0	0	0	0
6/23/2024 13:37	66502	SMAN_T2	0	0	0	0	0	0	-0.64	-0.67	1	1	0	900	900	0
6/23/2024 13:37	66504	SMAN_T2	5	7	2	0.68	0.5	-0.18	0	0	0	0	0	0	0	0
6/23/2024 13:37	66701	STRA_T1	24	26	2	0.7	0.76	0.06	0	0	0	0	0	0	0	0
6/23/2024 13:37	66703	STRA_T1	35	40	5	0.48	0.37	-0.11	-0.72	-0.71	0	0	0	0	0	0
6/23/2024 13:37	66503	SMAN_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
6/23/2024 13:37	66505	SMAN_T2	1	36	35	0.2	0.28	0.08	0	0	0	0	0	0	0	0
6/23/2024 13:37	57603	RUTH_T2	21	49	28	1.11	0.99	-0.12	0	0	0	0	0	0	0	0
6/23/2024 13:37	57601	RUTH_T2	0	0	0	0	0	0	-3.3	-3.08	2	2	0	1800	1800	0
6/23/2024 13:38	67605	WARW_T1	1	0	-1	0.3	0	-0.3	-0.7	-0.69	0	0	0	0	0	0
6/23/2024 13:40	67203	TEHI_T1	0	0	0	0	0	0	1.3	1.3	1	1	0	900	900	0
6/23/2024 13:40	61101	BERK_T5	0	12	12	0	0.3	0.3	0	0	0	0	0	0	0	0
6/23/2024 13:40	61102	BERK_T5	0	0	0	0	0	0	-1.47	-1.47	3	3	0	2400	2400	0
6/23/2024 13:41	61304	EARL_T1	0	0	0	0	0	0	0.38	0.37	1	1	0	600	600	0
6/23/2024 13:42	61102	BERK_T5	0	0	0	0	0	0	-2.94	-2.94	6	6	0	4800	4800	0
6/23/2024 13:42	61101	BERK_T5	0	12	12	0	0.3	0.3	0	0	0	0	0	0	0	0
6/23/2024 13:44	28704	HAML_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
6/23/2024 13:45	51004	NHAR_T1	1	1	0	7.4	7.3	-0.1	0	0	0	0	0	0	0	0
6/23/2024 13:45	51003	NHAR_T1	0	0	0	0	0	0	-2.65	-2.65	1	1	0	1200	1200	0
6/23/2024 13:46	20401	ASHF_T2	100	99	-1	1.02	0.78	-0.24	0	0	0	0	0	0	0	0
6/23/2024 13:46	20402	ASHF_T2	276	340	64	1.03	1.22	0.19	0	0	0	0	0	0	0	0
6/23/2024 13:46	20403	ASHF_T2	29	59	30	0.46	0.4	-0.06	0.23	0.24	0	0	0	0	0	0
6/23/2024 13:47	59302	MCAL_T1	12	8	-4	0.52	0.65	0.13	0	0	0	0	0	0	0	0
6/23/2024 13:47	59301	MCAL_T1	8	16	8	0.84	0.77	-0.07	-1	-0.99	0	0	0	0	0	0
6/23/2024 13:48	25402	LAHA_T2	0	0	0	0	0	0	-0.19	-0.3	0	0	0	0	0	0
6/23/2024 13:49	57304	MOAL_T2	12	12	0	0.69	0.46	-0.23	-0.89	-0.87	0	0	0	0	0	0
6/23/2024 13:49	57303	MOAL_T2	1	1	0	9.5	9.1	-0.4	0	0	0	0	0	0	0	0
6/23/2024 13:51	67703	WERN_T2	7	17	10	0.5	0.36	-0.14	-0.01	-0.01	1	1	0	900	900	0
6/23/2024 13:54	61701	ELIZ_T1	1	1	0	1	1	0	0.81	0.83	0	0	0	0	0	0
6/23/2024 13:55	10201	ALLE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 13:55	10102	ALLE_T2	6	5	-1	1.88	4.5	2.62	0	0	0	0	0	0	0	0
6/23/2024 13:55	10204	ALLE_T2	36	42	6	0.57	0.51	-0.06	0	0	0	0	0	0	0	0
6/23/2024 13:55	10206	ALLE_T2	8	11	3	1.05	0.1	-0.95	0	0	0	0	0	0	0	0
6/23/2024 13:56	51804	EBEN_T2	0	0	0	0	0	0	-1.19	-1.2	2	2	0	1800	1800	0
6/23/2024 13:56	51802	EBEN_T2	9	20	11	1.43	1.13	-0.3	0	0	0	0	0	0	0	0
6/23/2024 13:57	61304	EARL_T1	0	0	0	0	0	0	0.37	0.36	1	1	0	600	600	0
6/23/2024 13:57	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 13:59	63401	HONY_T1	0	0	0	0	0	0	0.32	0.37	1	1	0	600	600	0
6/23/2024 14:01	65401	MARI_T1	17	17	0	4.24	3.09	-1.15	0	0	0	0	0	0	0	0
6/23/2024 14:01	65402	MARI_T1	19	19	0	0.61	0.47	-0.14	0	0	0	0	0	0	0	0
6/23/2024 14:02	42901	MIDD_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/23/2024 14:02	42903	MIDD_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
6/23/2024 14:02	65401	MARI_T1	17	17	0	4.24	3.09	-1.15	0	0	0	0	0	0	0	0
6/23/2024 14:02	65402	MARI_T1	19	19	0	0.61	0.47	-0.14	0	0	0	0	0	0	0	0
6/23/2024 14:02	42902	MIDD_T2	46	57	11	0.8	0.89	0.09	-0.14	-0.14	0	0	0	0	0	0
6/23/2024 14:03	63401	HONY_T1	0	0	0	0	0	0	0.32	0.37	1	1	0	600	600	0
6/23/2024 14:03	59003	MIFF_T1	0	0	0	0	0	0	-0.88	-0.96	0	0	0	0	0	0
6/23/2024 14:08	67605	WARW_T1	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
6/23/2024 14:09	14705	TREX_T1	6	6	0	0.53	0.2	-0.33	0.98	1	0	0	0	0	0	0
6/23/2024 14:11	61701	ELIZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
6/23/2024 14:11	61703	ELIZ_T1	0	3	3	0	0	0	-4.38	-4.37	4	4	0	4200	4200	0
6/23/2024 14:13	21204	ECAR_T2	10	6	-4	0.71	0	-0.71	0	0	0	0	0	0	0	0
6/23/2024 14:13	62102	ELAN_T1	2	1	-1	0.6	0.4	-0.2	-0.06	-0.03	0	0	0	0	0	0
6/23/2024 14:13	62104	ELAN_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 14:13	62105	ELAN_T1	4	4	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
6/23/2024 14:13	62101	ELAN_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
6/23/2024 14:13	63401	HONY_T1	0	0	0	0	0	0	0.37	0.42	1	1	0	600	600	0
6/23/2024 14:13	21206	ECAR_T2	130	151	21	1.22	1.23	0.01	0.65	0.65	0	0	0	0	0	0
6/23/2024 14:14	43301	WATS_T2	2	7	5	0.2	0.3	0.1	-0.02	-0.01	1	1	0	900	900	0
6/23/2024 14:14	61701	ELIZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
6/23/2024 14:14	61703	ELIZ_T1	0	3	3	0	0	0	-2.19	-2.19	2	2	0	2100	2100	0
6/23/2024 14:14	43304	WATS_T2	16	13	-3	0.44	0.45	0.01	0	0	0	0	0	0	0	0
6/23/2024 14:15	61703	ELIZ_T1	0	3	3	0	0.1	0.1	-2.19	-2.19	2	2	0	2100	2100	0
6/23/2024 14:15	61701	ELIZ_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
6/23/2024 14:16	64302	LINC_T2	46	82	36	2.41	2.26	-0.15	1.54	1.54	0	0	0	0	0	0
6/23/2024 14:16	61701	ELIZ_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
6/23/2024 14:16	58401	MORO_T1	0	2	2	0	0.2	0.2	-1.62	-1.62	3	3	0	2100	2100	0
6/23/2024 14:16	61703	ELIZ_T1	0	3	3	0	0.1	0.1	-2.19	-2.19	2	2	0	2100	2100	0
6/23/2024 14:17	40101	HUNT_T2	94	199	105	0.51	0.54	0.03	-0.69	-0.68	0	0	0	0	0	0
6/23/2024 14:19	65502	MOJO_T2	0	0	0	0	0	0	-0.68	-0.69	1	1	0	900	900	0
6/23/2024 14:19	40101	HUNT_T2	94	199	105	0.51	0.54	0.03	-0.69	-0.68	0	0	0	0	0	0
6/23/2024 14:19	65503	MOJO_T2	3	5	2	0.47	0.47	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/23/2024 14:20	65601	QVIL_T2	21	42	21	0.44	0.36	-0.08	0	0	0	0	0	0	0	0
6/23/2024 14:20	65604	QVIL_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
6/23/2024 14:21	65804	RTWN_T1	0	0	0	0	0	0	0.93	0.94	1	1	0	600	600	0
6/23/2024 14:23	49804	UNIV_T1	3	6	3	0.3	0.57	0.27	1.52	1.51	0	0	0	0	0	0
6/23/2024 14:25	61701	ELIZ_T1	1	1	0	1	0.7	-0.3	0.76	0.75	0	0	0	0	0	0
6/23/2024 14:25	61703	ELIZ_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/23/2024 14:28	26401	INOR_T1	8	4	-4	0.85	2.5	1.65	1.07	1.07	0	0	0	0	0	0
6/23/2024 14:28	26402	INOR_T1	3	7	4	0.67	1.15	0.48	0	0	0	0	0	0	0	0
6/23/2024 14:29	22905	HARW_T1	46	106	60	0.56	0.7	0.14	-0.13	-0.18	0	0	0	0	0	0
6/23/2024 14:29	22903	HARW_T1	23	25	2	1.57	2.26	0.69	0	0	0	0	0	0	0	0
6/23/2024 14:29	22901	HARW_T1	6	9	3	0.55	0.24	-0.31	0	0	0	0	0	0	0	0
6/23/2024 14:42	24105	EHAZ_T1	4	4	0	7.55	7.38	-0.17	0	0	0	0	0	0	0	0
6/23/2024 14:42	24103	EHAZ_T1	0	0	0	0	0	0	-1.31	-1.32	0	0	0	0	0	0
6/23/2024 14:42	53901	HALI_T2	2	3	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/23/2024 14:42	24101	EHAZ_T1	53	70	17	1.5	1.62	0.12	0	0	0	0	0	0	0	0
6/23/2024 14:42	24102	EHAZ_T1	26	28	2	1	0.79	-0.21	0	0	0	0	0	0	0	0
6/23/2024 14:42	53902	HALI_T2	1	1	0	3.7	3.7	0	-0.51	-0.52	0	0	0	0	0	0
6/23/2024 14:43	24105	EHAZ_T1	4	4	0	7.55	7.38	-0.17	0	0	0	0	0	0	0	0
6/23/2024 14:43	24101	EHAZ_T1	53	70	17	1.5	1.62	0.12	0	0	0	0	0	0	0	0
6/23/2024 14:43	24102	EHAZ_T1	26	28	2	1	0.79	-0.21	0	0	0	0	0	0	0	0
6/23/2024 14:43	24103	EHAZ_T1	0	0	0	0	0	0	-1.31	-1.32	0	0	0	0	0	0
6/23/2024 14:44	53901	HALI_T2	2	3	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/23/2024 14:44	53902	HALI_T2	1	1	0	3.7	3.7	0	-0.51	-0.52	0	0	0	0	0	0
6/23/2024 14:45	53902	HALI_T2	1	1	0	3.4	3.7	0.3	-0.51	-0.52	0	0	0	0	0	0
6/23/2024 14:45	53901	HALI_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
6/23/2024 14:46	47802	MOCA_T2	1	0	-1	0.7	0	-0.7	-0.46	-0.47	0	0	0	0	0	0
6/23/2024 14:46	22701	MINO_T1	0	0	0	0	0	0	-0.28	-0.28	1	1	0	600	600	0
6/23/2024 14:47	53902	HALI_T2	1	1	0	3.4	3.7	0.3	-0.51	-0.52	0	0	0	0	0	0
6/23/2024 14:47	53901	HALI_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
6/23/2024 14:48	53901	HALI_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
6/23/2024 14:48	64305	LINC_T1	1	1	0	1	0.7	-0.3	-0.64	-0.66	0	0	0	0	0	0
6/23/2024 14:48	53902	HALI_T2	1	1	0	3.4	3.7	0.3	-0.51	-0.52	0	0	0	0	0	0
6/23/2024 14:58	43301	WATS_T2	5	7	2	0.56	0.3	-0.26	0	0	0	0	0	0	0	0
6/23/2024 14:58	43304	WATS_T2	46	60	14	0.53	0.43	-0.1	-1.97	-1.97	2	2	0	1200	1200	0
6/23/2024 14:59	45501	DERR_T2	5	23	18	0.42	0.33	-0.09	0.12	0.14	2	2	0	1800	1800	0
6/23/2024 14:59	45502	DERR_T2	24	18	-6	0.48	0.32	-0.16	0	0	0	0	0	0	0	0
6/23/2024 15:02	61703	ELIZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/23/2024 15:02	61701	ELIZ_T1	2	1	-1	0.6	0.8	0.2	0.72	0.8	0	0	0	0	0	0
6/23/2024 15:05	24702	FLND_T2	4	7	3	0.18	0.35	0.17	0	0	0	0	0	0	0	0
6/23/2024 15:05	24701	FLND_T2	0	9	9	0	0.1	0.1	-0.65	-0.65	0	0	0	0	0	0
6/23/2024 15:05	24703	FLND_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/23/2024 15:06	58705	ROSE_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 15:06	58702	ROSE_T2	6	11	5	0.92	0.35	-0.57	0	0	0	0	0	0	0	0
6/23/2024 15:06	58706	ROSE_T2	5	6	1	0.9	0.84	-0.06	0	0	0	0	0	0	0	0
6/23/2024 15:06	58701	ROSE_T2	3	8	5	0.4	0.3	-0.1	-1.38	-1.38	1	1	0	600	600	0
6/23/2024 15:10	45501	DERR_T2	19	18	-1	0.37	0.29	-0.08	0	0	0	0	0	0	0	0
6/23/2024 15:10	45502	DERR_T2	10	20	10	0.32	0.37	0.05	-0.44	-0.44	0	0	0	0	0	0
6/23/2024 15:11	43301	WATS_T2	6	4	-2	0.67	0.53	-0.14	0	0	1	1	0	900	900	0
6/23/2024 15:11	43304	WATS_T2	60	35	-25	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
6/23/2024 15:13	61703	ELIZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/23/2024 15:13	43304	WATS_T2	60	35	-25	0.43	0.37	-0.06	-0.98	-0.99	1	1	0	600	600	0
6/23/2024 15:13	61701	ELIZ_T1	2	1	-1	0.6	0.8	0.2	0.8	0.74	0	0	0	0	0	0
6/23/2024 15:13	43301	WATS_T2	6	4	-2	0.67	0.53	-0.14	0	0	0	0	0	0	0	0
6/23/2024 15:14	61303	EARL_T1	1	3	2	0.9	0	-0.9	0	0	0	0	0	0	0	0
6/23/2024 15:14	61304	EARL_T1	0	0	0	0	0	0	0.36	0.37	1	1	0	600	600	0
6/23/2024 15:15	61702	ELIZ_T2	8	38	30	0.39	0.35	-0.04	-1.04	-1.16	2	2	0	1500	1500	0
6/23/2024 15:15	61704	ELIZ_T2	0	6	6	0	0.28	0.28	0	0	0	0	0	0	0	0
6/23/2024 15:21	57401	SPAN_T1	26	123	97	0.65	0.54	-0.11	-1.11	-1.05	2	2	0	1500	1500	0
6/23/2024 15:21	57402	SPAN_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
6/23/2024 15:21	57403	SPAN_T1	8	7	-1	0.81	0.25	-0.56	0	0	0	0	0	0	0	0
6/23/2024 15:21	57404	SPAN_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/23/2024 15:22	10204	ALLE_T2	43	38	-5	0.49	0.58	0.09	0	0	1	1	0	600	600	0
6/23/2024 15:22	10206	ALLE_T2	5	10	5	0.28	0	-0.28	0	0	0	0	0	0	0	0
6/23/2024 15:22	10203	ALLE_T2	1	1	0	1.4	0.6	-0.8	0	0	0	0	0	0	0	0
6/23/2024 15:22	10102	ALLE_T2	10	16	6	1.1	1.9	0.8	0	0	0	0	0	0	0	0
6/23/2024 15:25	10203	ALLE_T2	1	1	0	1.4	0.6	-0.8	0	0	0	0	0	0	0	0
6/23/2024 15:25	10102	ALLE_T2	10	16	6	1.1	1.9	0.8	0	0	0	0	0	0	0	0
6/23/2024 15:25	10206	ALLE_T2	5	10	5	0.28	0	-0.28	0	0	0	0	0	0	0	0
6/23/2024 15:25	10204	ALLE_T2	43	38	-5	0.49	0.58	0.09	0	0	1	1	0	600	600	0
6/23/2024 15:27	10805	CHHI_T2	118	134	16	1.29	1.19	-0.1	-0.76	-0.91	2	2	0	1200	1200	0
6/23/2024 15:28	10801	CHHI_T1	212	211	-1	3.24	2.86	-0.38	-0.63	-0.66	3	3	0	2100	2100	0
6/23/2024 15:28	22901	HARW_T1	6	10	4	0.47	0.36	-0.11	-1.46	-1.47	1	1	0	1200	1200	0
6/23/2024 15:28	22903	HARW_T1	26	27	1	3.13	3.17	0.04	0	0	0	0	0	0	0	0
6/23/2024 15:28	22905	HARW_T1	27	61	34	0.33	0.5	0.17	0	0	0	0	0	0	0	0
6/23/2024 15:30	11801	FRAN_T2	39	26	-13	0.77	0.51	-0.26	0.1	0.1	0	0	0	0	0	0
6/23/2024 15:30	11803	FRAN_T2	174	168	-6	1.42	0.79	-0.63	0	0	0	0	0	0	0	0
6/23/2024 15:34	65604	QVIL_T2	2	4	2	0.75	0.1	-0.65	0	0	0	0	0	0	0	0
6/23/2024 15:34	65603	QVIL_T2	1	1	0	0.3	0	-0.3	-0.76	-0.77	0	0	0	0	0	0
6/23/2024 15:34	65602	QVIL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/23/2024 15:34	65601	QVIL_T2	18	10	-8	0.28	0.3	0.02	0	0	0	0	0	0	0	0
6/23/2024 15:37	14008	SELL_T2	1	2	1	0.6	1.3	0.7	0	0	0	0	0	0	0	0
6/23/2024 15:37	14006	SELL_T2	0	0	0	0	0	0	-0.03	-0.03	1	1	0	1200	1200	0
6/23/2024 15:39	14401	SSLA_T1	4	11	7	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
6/23/2024 15:39	14402	SSLA_T1	5	9	4	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
6/23/2024 15:39	14404	SSLA_T1	1	1	0	2.1	1.9	-0.2	0	0	0	0	0	0	0	0
6/23/2024 15:39	14403	SSLA_T1	25	28	3	0.77	0.62	-0.15	0.07	0.07	3	3	0	1800	1800	0
6/23/2024 15:41	61303	EARL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 15:41	61304	EARL_T1	0	0	0	0	0	0	0.38	0.39	1	1	0	600	600	0
6/23/2024 15:50	57401	SPAN_T1	45	11	-34	0.53	0.9	0.37	-1.09	-1.93	2	3	1	1500	2400	900
6/23/2024 15:50	57403	SPAN_T1	5	9	4	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
6/23/2024 15:51	57401	SPAN_T1	45	11	-34	0.53	0.9	0.37	-2.19	-3.86	4	6	2	3000	4800	1800
6/23/2024 15:51	58701	ROSE_T2	6	8	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/23/2024 15:51	58706	ROSE_T2	9	5	-4	0.61	1.65	1.04	0.27	0.26	1	1	0	600	600	0
6/23/2024 15:51	58705	ROSE_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/23/2024 15:51	58702	ROSE_T2	5	11	6	0.38	0	-0.38	0	0	0	0	0	0	0	0
6/23/2024 15:51	57403	SPAN_T1	5	9	4	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
6/23/2024 15:52	57401	SPAN_T1	45	11	-34	0.53	0.9	0.37	-1.93	-2.06	3	3	0	2400	2400	0
6/23/2024 15:52	57403	SPAN_T1	5	9	4	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
6/23/2024 15:54	57401	SPAN_T1	45	11	-34	0.53	0.9	0.37	-1.93	-2.06	3	3	0	2400	2400	0
6/23/2024 15:54	57403	SPAN_T1	5	9	4	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
6/23/2024 15:55	10805	CHHI_T2	99	130	31	1.24	1.16	-0.08	-0.35	-0.41	1	1	0	600	600	0
6/23/2024 15:57	11502	FREE_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 15:57	11505	FREE_T1	7	7	0	0.47	0.65	0.18	0	0	0	0	0	0	0	0
6/23/2024 15:57	11504	FREE_T1	2	5	3	0.35	0.1	-0.25	-1.37	-1.29	2	2	0	2100	2100	0
6/23/2024 15:58	63304	GREE_T1	0	0	0	0	0	0	-2.86	-2.9	1	1	0	1200	1200	0
6/23/2024 16:00	63304	GREE_T1	0	0	0	0	0	0	-2.86	-2.9	1	1	0	1200	1200	0
6/23/2024 16:15	53502	EVIL_T2	1	2	1	1.5	0.75	-0.75	0	0	0	0	0	0	0	0
6/23/2024 16:15	53501	EVIL_T2	2	4	2	1.8	0.17	-1.63	-0.48	-0.48	1	1	0	600	600	0
6/23/2024 16:28	10603	BLGL_T1	365	334	-31	1.49	1.38	-0.11	-0.3	-0.3	0	0	0	0	0	0
6/23/2024 16:28	10601	BLGL_T1	2	2	0	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
6/23/2024 16:29	41802	GOCI_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/23/2024 16:29	41801	GOCI_T2	2	4	2	0.55	1.3	0.75	0	0	1	1	0	900	900	0
6/23/2024 16:32	41801	GOCI_T2	2	4	2	1.3	1.23	-0.07	0	0	1	1	0	900	900	0
6/23/2024 16:34	51003	NHAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 16:34	51004	NHAR_T1	13	1	-12	1	7.1	6.1	-1.05	-1.07	0	0	0	0	0	0
6/23/2024 16:35	51003	NHAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 16:35	51004	NHAR_T1	13	1	-12	1	7.1	6.1	-1.05	-1.07	0	0	0	0	0	0
6/23/2024 16:36	66505	SMAN_T2	2	12	10	0.25	0.31	0.06	0	0	0	0	0	0	0	0
6/23/2024 16:36	66503	SMAN_T2	10	7	-3	0.38	0.2	-0.18	0	0	0	0	0	0	0	0
6/23/2024 16:36	66504	SMAN_T2	4	36	32	0.3	0.39	0.09	-1.14	-1.13	1	1	0	1200	1200	0
6/23/2024 16:37	51004	NHAR_T1	13	1	-12	1	7.1	6.1	-1.07	-1.09	0	0	0	0	0	0
6/23/2024 16:37	51003	NHAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 16:42	66503	SMAN_T2	10	7	-3	0.38	0.2	-0.18	0	0	0	0	0	0	0	0
6/23/2024 16:42	66504	SMAN_T2	4	36	32	0.3	0.39	0.09	-1.14	-1.13	1	1	0	1200	1200	0
6/23/2024 16:42	66505	SMAN_T2	2	12	10	0.25	0.31	0.06	0	0	0	0	0	0	0	0
6/23/2024 16:47	12701	MACU_T1	144	211	67	0.78	0.84	0.06	-1.01	-1.01	2	2	0	2400	2400	0
6/23/2024 16:47	12704	MACU_T1	38	69	31	0.61	0.74	0.13	0	0	0	0	0	0	0	0
6/23/2024 16:47	22701	MINO_T1	0	0	0	0	0	0	-0.26	-0.32	1	1	0	600	600	0
6/23/2024 16:49	12704	MACU_T1	38	69	31	0.61	0.74	0.13	0	0	0	0	0	0	0	0
6/23/2024 16:49	12701	MACU_T1	144	211	67	0.78	0.84	0.06	-0.51	-0.51	1	1	0	1200	1200	0
6/23/2024 16:50	12704	MACU_T1	38	69	31	0.61	0.74	0.13	0	0	0	0	0	0	0	0
6/23/2024 16:50	12701	MACU_T1	144	211	67	0.78	0.84	0.06	-0.51	-0.51	1	1	0	1200	1200	0
6/23/2024 17:00	48901	FOSP_T2	0	0	0	0	0	0	-0.21	-0.22	1	1	0	600	600	0
6/23/2024 17:02	11104	EGYP_T1	9	23	14	1.26	1.07	-0.19	-0.35	-0.27	1	1	0	900	900	0
6/23/2024 17:02	52403	GRPA_T2	96	185	89	0.91	1.09	0.18	0	0	0	0	0	0	0	0
6/23/2024 17:02	52401	GRPA_T2	2	4	2	0.3	0.4	0.1	-0.72	-0.72	0	0	0	0	0	0
6/23/2024 17:02	52402	GRPA_T2	16	13	-3	0.71	0.56	-0.15	0	0	0	0	0	0	0	0
6/23/2024 17:02	11101	EGYP_T1	5	5	0	0.34	0.7	0.36	0	0	0	0	0	0	0	0
6/23/2024 17:02	11103	EGYP_T1	1	0	-1	1.8	0	-1.8	0	0	0	0	0	0	0	0
6/23/2024 17:02	11102	EGYP_T1	57	69	12	0.88	1.13	0.25	0	0	0	0	0	0	0	0
6/23/2024 17:04	11101	EGYP_T1	5	5	0	0.34	0.7	0.36	0	0	0	0	0	0	0	0
6/23/2024 17:04	11104	EGYP_T1	9	23	14	1.26	1.07	-0.19	-0.35	-0.27	1	1	0	900	900	0
6/23/2024 17:04	11103	EGYP_T1	1	0	-1	1.8	0	-1.8	0	0	0	0	0	0	0	0
6/23/2024 17:04	11102	EGYP_T1	57	69	12	0.88	1.13	0.25	0	0	0	0	0	0	0	0
6/23/2024 17:08	44301	BEAV_T2	49	81	32	0.92	0.81	-0.11	-0.17	-0.18	1	1	0	600	600	0
6/23/2024 17:09	58003	WCAR_T1	1	1	0	0.7	0.7	0	0.5	0.49	1	1	0	600	600	0
6/23/2024 17:10	58003	WCAR_T1	1	1	0	0.7	0.7	0	0.5	0.49	1	1	0	600	600	0
6/23/2024 17:11	57401	SPAN_T1	2	3	1	0.7	0.7	0	-1.53	-1.49	2	2	0	1500	1500	0
6/23/2024 17:12	44301	BEAV_T2	49	81	32	0.92	0.81	-0.11	-0.17	-0.18	1	1	0	600	600	0
6/23/2024 17:14	61505	EPET_T1	0	0	0	0	0	0	0.91	0.86	0	0	0	0	0	0
6/23/2024 17:14	61502	EPET_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/23/2024 17:25	62606	ENGL_T1	60	51	-9	1.78	3.87	2.09	0	0	0	0	0	0	0	0
6/23/2024 17:25	62604	ENGL_T1	45	50	5	0.48	0.5	0.02	-0.59	-0.56	1	1	0	600	600	0
6/23/2024 17:25	62607	ENGL_T1	13	9	-4	1.5	1.45	-0.05	0	0	0	0	0	0	0	0
6/23/2024 17:25	62601	ENGL_T1	2	2	0	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/23/2024 17:26	62601	ENGL_T1	2	2	0	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/23/2024 17:26	62604	ENGL_T1	45	50	5	0.48	0.5	0.02	-0.59	-0.56	1	1	0	600	600	0
6/23/2024 17:26	62607	ENGL_T1	13	9	-4	1.5	1.45	-0.05	0	0	0	0	0	0	0	0
6/23/2024 17:26	62606	ENGL_T1	60	51	-9	1.78	3.87	2.09	0	0	0	0	0	0	0	0
6/23/2024 17:28	62604	ENGL_T1	45	50	5	0.48	0.5	0.02	-1.17	-1.12	2	2	0	1200	1200	0
6/23/2024 17:28	62601	ENGL_T1	2	2	0	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/23/2024 17:28	62607	ENGL_T1	13	9	-4	1.5	1.45	-0.05	0	0	0	0	0	0	0	0
6/23/2024 17:28	62606	ENGL_T1	60	51	-9	1.78	3.87	2.09	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/23/2024 17:29	62606	ENGL_T1	60	51	-9	1.78	3.87	2.09	0	0	0	0	0	0	0	0
6/23/2024 17:29	62601	ENGL_T1	2	2	0	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/23/2024 17:29	62607	ENGL_T1	13	9	-4	1.5	1.45	-0.05	0	0	0	0	0	0	0	0
6/23/2024 17:29	62604	ENGL_T1	45	50	5	0.48	0.5	0.02	-0.59	-0.56	1	1	0	600	600	0
6/23/2024 17:30	62604	ENGL_T1	46	34	-12	0.52	0.38	-0.14	-0.59	-0.56	1	1	0	600	600	0
6/23/2024 17:30	62606	ENGL_T1	48	34	-14	2.09	3.06	0.97	0	0	0	0	0	0	0	0
6/23/2024 17:30	62601	ENGL_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/23/2024 17:30	62607	ENGL_T1	8	9	1	1.31	1.25	-0.06	0	0	0	0	0	0	0	0
6/23/2024 17:30	47402	PENS_T1	4	4	0	0.68	0	-0.68	0	0	0	0	0	0	0	0
6/23/2024 17:30	47401	PENS_T1	14	19	5	0.69	0.79	0.1	3.63	3.59	0	0	0	0	0	0
6/23/2024 17:31	26402	INOR_T1	5	4	-1	0.72	0.4	-0.32	0	0	0	0	0	0	0	0
6/23/2024 17:31	26401	INOR_T1	2	1	-1	3.2	5.1	1.9	1.06	1.07	0	0	0	0	0	0
6/23/2024 17:32	62601	ENGL_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/23/2024 17:32	62606	ENGL_T1	48	34	-14	2.09	3.06	0.97	0	0	0	0	0	0	0	0
6/23/2024 17:32	62604	ENGL_T1	46	34	-12	0.52	0.38	-0.14	-0.59	-0.56	1	1	0	600	600	0
6/23/2024 17:32	62607	ENGL_T1	8	9	1	1.31	1.25	-0.06	0	0	0	0	0	0	0	0
6/23/2024 17:34	60502	NMAN_T2	13	0	-13	0.21	0	-0.21	-0.64	-0.11	0	0	0	0	0	0
6/23/2024 17:34	48302	ORWI_T2	43	26	-17	0.52	0.49	-0.03	0.05	0.04	0	0	0	0	0	0
6/23/2024 17:34	67703	WERN_T2	10	6	-4	0.53	0.3	-0.23	-0.01	-0.01	1	1	0	900	900	0
6/23/2024 17:34	60501	NMAN_T2	3	3	0	3.63	3.63	0	0	0	0	0	0	0	0	0
6/23/2024 17:35	48302	ORWI_T2	43	26	-17	0.52	0.49	-0.03	0.03	0.02	0	0	0	0	0	0
6/23/2024 17:35	67703	WERN_T2	10	6	-4	0.53	0.3	-0.23	-0.01	-0.01	1	1	0	900	900	0
6/23/2024 17:38	67703	WERN_T2	10	6	-4	0.53	0.3	-0.23	-0.01	-0.01	1	1	0	900	900	0
6/23/2024 17:46	62607	ENGL_T1	7	9	2	1.26	0.9	-0.36	0	0	0	0	0	0	0	0
6/23/2024 17:46	62601	ENGL_T1	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
6/23/2024 17:46	62604	ENGL_T1	26	25	-1	0.49	0.43	-0.06	0	0	0	0	0	0	0	0
6/23/2024 17:46	62606	ENGL_T1	22	31	9	3.44	2.39	-1.05	0	0	0	0	0	0	0	0
6/23/2024 17:51	66505	SMAN_T2	34	18	-16	0.35	0.37	0.02	0.13	0.18	4	4	0	2300	2300	0
6/23/2024 17:51	66503	SMAN_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/23/2024 17:51	66504	SMAN_T2	9	5	-4	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
6/23/2024 17:52	66505	SMAN_T2	34	18	-16	0.35	0.37	0.02	0.13	0.18	4	4	0	2300	2300	0
6/23/2024 17:52	65602	QVIL_T2	1	1	0	0.9	1.5	0.6	0	0	0	0	0	0	0	0
6/23/2024 17:52	66503	SMAN_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/23/2024 17:52	65604	QVIL_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
6/23/2024 17:52	65601	QVIL_T2	0	0	0	0	0	0	0.19	0.27	1	1	0	900	900	0
6/23/2024 17:52	66504	SMAN_T2	9	5	-4	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
6/23/2024 17:58	29402	BELT_T1	51	63	12	0.41	0.44	0.03	0	0	0	0	0	0	0	0
6/23/2024 17:58	29401	BELT_T1	1	0	-1	1.1	0	-1.1	0	0	1	1	0	900	900	0
6/23/2024 18:00	12601	MACA_T1	12	8	-4	2.02	1.08	-0.94	0	0	0	0	0	0	0	0
6/23/2024 18:00	12606	MACA_T1	133	121	-12	2.4	2.45	0.05	0	0	0	0	0	0	0	0
6/23/2024 18:00	12602	MACA_T1	15	15	0	2.01	1.13	-0.88	0	0	0	0	0	0	0	0
6/23/2024 18:00	12605	MACA_T1	0	2	2	0	0	0	0.11	0.11	0	0	0	0	0	0
6/23/2024 18:00	12603	MACA_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/23/2024 18:02	12601	MACA_T1	12	8	-4	2.02	1.08	-0.94	0	0	0	0	0	0	0	0
6/23/2024 18:02	12602	MACA_T1	15	15	0	2.01	1.13	-0.88	0	0	0	0	0	0	0	0
6/23/2024 18:02	12606	MACA_T1	133	121	-12	2.4	2.45	0.05	0	0	0	0	0	0	0	0
6/23/2024 18:02	12605	MACA_T1	0	2	2	0	0	0	0.11	0.11	0	0	0	0	0	0
6/23/2024 18:02	12603	MACA_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/23/2024 18:09	12302	LANA_T2	8	8	0	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
6/23/2024 18:09	12304	LANA_T2	215	190	-25	1.17	0.97	-0.2	0	0	0	0	0	0	0	0
6/23/2024 18:09	12305	LANA_T2	38	32	-6	0.89	0.77	-0.12	0	0	0	0	0	0	0	0
6/23/2024 18:09	12301	LANA_T2	14	12	-2	1.05	0.78	-0.27	-1.76	-1.8	1	1	0	1200	1200	0
6/23/2024 18:17	12002	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/23/2024 18:17	12001	HATF_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/23/2024 18:17	12006	HATF_T1	0	1	1	0	1.2	1.2	0.87	0.88	1	1	0	1200	1200	0
6/23/2024 18:19	65205	PRIN_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
6/23/2024 18:21	57103	SPHI_T2	0	0	0	0	0	0	-0.84	-0.82	1	1	0	600	600	0
6/23/2024 18:21	57101	SPHI_T2	3	6	3	0.13	0.2	0.07	0	0	0	0	0	0	0	0
6/23/2024 18:21	57106	SPHI_T2	3	3	0	0.27	0.37	0.1	0	0	0	0	0	0	0	0
6/23/2024 18:21	57104	SPHI_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
6/23/2024 18:22	54203	PENN_T1	5	5	0	0.6	0.56	-0.04	0	0	0	0	0	0	0	0
6/23/2024 18:22	14603	SWHI_T1	2	1	-1	0.25	0	-0.25	-1.67	-1.67	2	2	0	1200	1200	0
6/23/2024 18:22	14605	SWHI_T1	53	39	-14	0.77	0.82	0.05	0	0	0	0	0	0	0	0
6/23/2024 18:22	54201	PENN_T1	3	3	0	0.6	1.1	0.5	-1.44	-1.44	0	0	0	0	0	0
6/23/2024 18:22	14601	SWHI_T1	3	0	-3	0.57	0	-0.57	0	0	0	0	0	0	0	0
6/23/2024 18:25	57101	SPHI_T2	3	6	3	0.13	0.2	0.07	0	0	0	0	0	0	0	0
6/23/2024 18:25	57104	SPHI_T2	1	1	0	1.2	1.1	-0.1	-1.97	-1.98	1	1	0	900	900	0
6/23/2024 18:25	57106	SPHI_T2	3	3	0	0.27	0.37	0.1	0	0	0	0	0	0	0	0
6/23/2024 18:27	62606	ENGL_T1	17	41	24	2.39	2.33	-0.06	0	0	0	0	0	0	0	0
6/23/2024 18:27	62605	ENGL_T1	0	0	0	0	0	0	-3.25	-3.27	0	0	0	0	0	0
6/23/2024 18:27	62607	ENGL_T1	9	10	1	0.83	0.91	0.08	0	0	0	0	0	0	0	0
6/23/2024 18:27	62604	ENGL_T1	22	36	14	0.52	0.66	0.14	0	0	0	0	0	0	0	0
6/23/2024 18:30	62606	ENGL_T1	28	37	9	1.65	2.94	1.29	0	0	0	0	0	0	0	0
6/23/2024 18:30	62605	ENGL_T1	0	0	0	0	0	0	-1.63	-1.63	0	0	0	0	0	0
6/23/2024 18:30	62604	ENGL_T1	34	32	-2	0.74	0.67	-0.07	0	0	0	0	0	0	0	0
6/23/2024 18:30	62607	ENGL_T1	9	9	0	0.82	0.93	0.11	0	0	0	0	0	0	0	0
6/23/2024 18:33	44902	SCOT_T2	6	72	66	0.1	0.13	0.03	-1.68	-1.7	0	0	0	0	0	0
6/23/2024 18:35	13201	PALM_T1	67	63	-4	1.41	1.69	0.28	-1.18	-1.18	1	1	0	1200	1200	0
6/23/2024 18:35	67103	SPRI_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
6/23/2024 18:48	46101	MACI_T2	0	0	0	0	0	0	-0.42	-0.41	1	1	0	1200	1200	0
6/23/2024 18:48	13105	NHAM_T2	125	103	-22	0.91	0.9	-0.01	0	0	0	0	0	0	0	0
6/23/2024 18:48	13103	NHAM_T2	18	19	1	1.14	1.03	-0.11	-0.95	-0.95	1	1	0	600	600	0
6/23/2024 18:48	13102	NHAM_T2	4	15	11	0.55	0.33	-0.22	0	0	0	0	0	0	0	0
6/23/2024 18:49	13103	NHAM_T2	18	19	1	1.14	1.03	-0.11	-0.95	-0.95	1	1	0	600	600	0
6/23/2024 18:49	13102	NHAM_T2	4	15	11	0.55	0.33	-0.22	0	0	0	0	0	0	0	0
6/23/2024 18:49	13105	NHAM_T2	125	103	-22	0.91	0.9	-0.01	0	0	0	0	0	0	0	0
6/23/2024 18:59	63401	HONY_T1	0	0	0	0	0	0	0.29	0.3	1	1	0	600	600	0
6/23/2024 19:09	25603	ARRO_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
6/23/2024 19:11	46001	BERW_T1	1	2	1	0.3	0.2	-0.1	0.09	0.06	0	0	0	0	0	0
6/23/2024 19:14	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.07	0.46	2	1	-1	1500	900	-600
6/23/2024 19:22	14402	SSLA_T1	4	0	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/23/2024 19:22	14401	SSLA_T1	1	1	0	0.3	0.7	0.4	-0.59	-0.6	1	1	0	600	600	0
6/23/2024 19:22	14403	SSLA_T1	11	6	-5	0.53	0.75	0.22	0	0	0	0	0	0	0	0
6/23/2024 19:22	14404	SSLA_T1	10	6	-4	0.87	3.3	2.43	0	0	0	0	0	0	0	0
6/23/2024 19:24	14402	SSLA_T1	4	4	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/23/2024 19:24	14403	SSLA_T1	11	6	-5	0.53	0.75	0.22	0	0	0	0	0	0	0	0
6/23/2024 19:24	14404	SSLA_T1	10	6	-4	0.87	3.3	2.43	0	0	0	0	0	0	0	0
6/23/2024 19:24	14401	SSLA_T1	1	1	0	0.3	0.7	0.4	-0.59	-0.6	1	1	0	600	600	0
6/23/2024 19:31	41301	FISH_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/23/2024 19:31	41305	FISH_T1	0	2	2	0	0.1	0.1	0.35	0.34	0	0	0	0	0	0
6/23/2024 19:31	41303	FISH_T1	5	7	2	1.54	1.26	-0.28	0	0	0	0	0	0	0	0
6/23/2024 19:31	64305	LINC_T1	0	0	0	0	0	0	-0.74	-0.76	0	0	0	0	0	0
6/23/2024 19:32	61701	ELIZ_T1	1	1	0	2	2	0	0.65	0.71	0	0	0	0	0	0
6/23/2024 19:35	14603	SWHI_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/23/2024 19:35	13801	SALI_T1	1	0	-1	0.1	0	-0.1	0.33	0.33	0	0	0	0	0	0
6/23/2024 19:35	14605	SWHI_T1	12	14	2	0.45	0.34	-0.11	0	0	0	0	0	0	0	0
6/23/2024 19:35	14601	SWHI_T1	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
6/23/2024 19:36	14605	SWHI_T1	12	14	2	0.45	0.34	-0.11	0	0	0	0	0	0	0	0
6/23/2024 19:36	13801	SALI_T1	1	0	-1	0.1	0	-0.1	0.33	0.32	0	0	0	0	0	0
6/23/2024 19:36	14603	SWHI_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/23/2024 19:36	14601	SWHI_T1	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
6/23/2024 19:41	61102	BERK_T5	0	0	0	0	0	0	-0.82	-0.83	2	2	0	1500	1500	0
6/23/2024 19:41	61101	BERK_T5	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 19:44	62102	ELAN_T1	0	0	0	0	0	0	-0.17	-0.28	0	0	0	0	0	0
6/23/2024 19:44	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 19:44	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/23/2024 19:46	63501	HEID_TBK1-2	0	0	0	0	0	0	0.45	0.54	1	1	0	900	900	0
6/23/2024 19:48	22905	HARW_T1	0	18	18	0	0.27	0.27	-0.29	-0.29	0	0	0	0	0	0
6/23/2024 19:48	22903	HARW_T1	26	25	-1	2.12	2.23	0.11	0	0	0	0	0	0	0	0
6/23/2024 19:49	67103	SPRI_T1	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
6/23/2024 19:54	14404	SSLA_T1	1	1	0	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
6/23/2024 19:54	14401	SSLA_T1	1	0	-1	0.7	0	-0.7	-0.61	-0.63	1	1	0	600	600	0
6/23/2024 19:54	14403	SSLA_T1	4	8	4	0.75	0.1	-0.65	0	0	0	0	0	0	0	0
6/23/2024 19:54	14402	SSLA_T1	4	4	0	1.28	0.65	-0.63	0	0	0	0	0	0	0	0
6/23/2024 19:56	11104	EGYP_T1	5	6	1	0.46	0	-0.46	0	0	0	0	0	0	0	0
6/23/2024 19:56	11102	EGYP_T1	5	10	5	0.94	0.56	-0.38	0	0	0	0	0	0	0	0
6/23/2024 19:56	11103	EGYP_T1	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
6/23/2024 19:56	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 19:59	40502	CRES_T2	27	74	47	0.57	0.64	0.07	-0.17	-0.04	0	0	0	0	0	0
6/23/2024 19:59	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 20:04	13501	MCMI_T1	1	2	1	1.1	0	-1.1	-0.22	-0.22	0	0	0	0	0	0
6/23/2024 20:07	11102	EGYP_T1	5	13	8	0.56	0.58	0.02	0	0	0	0	0	0	0	0
6/23/2024 20:07	11104	EGYP_T1	0	10	10	0	0.73	0.73	0	0	0	0	0	0	0	0
6/23/2024 20:07	11101	EGYP_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/23/2024 20:07	11103	EGYP_T1	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
6/23/2024 20:10	16302	ALPA_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
6/23/2024 20:15	16302	ALPA_T2	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
6/23/2024 20:16	16302	ALPA_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
6/23/2024 20:22	40101	HUNT_T2	92	45	-47	0.56	0.46	-0.1	-0.73	-0.77	0	0	0	0	0	0
6/23/2024 20:32	64305	LINC_T1	0	0	0	0	0	0	-0.76	-0.84	0	0	0	0	0	0
6/23/2024 20:33	64305	LINC_T1	0	0	0	0	0	0	-0.76	-0.84	0	0	0	0	0	0
6/23/2024 20:38	64101	REFR_T1	0	0	0	0	0	0	0.66	0.64	0	0	0	0	0	0
6/23/2024 20:51	64101	REFR_T1	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
6/23/2024 20:51	58803	COCO_T1	0	1	1	0	0	0	-0.78	-0.79	1	1	0	600	600	0
6/23/2024 20:53	64101	REFR_T1	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
6/23/2024 20:54	64101	REFR_T1	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
6/23/2024 20:55	64101	REFR_T1	0	0	0	0	0	0	1.28	1.23	0	0	0	0	0	0
6/23/2024 20:56	64101	REFR_T1	0	0	0	0	0	0	1.91	1.85	0	0	0	0	0	0
6/23/2024 21:27	57403	SPAN_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/23/2024 21:27	57401	SPAN_T1	19	14	-5	0.4	0.2	-0.2	-0.69	-0.76	1	1	0	600	600	0
6/23/2024 21:28	56803	BENV_T1	4	3	-1	1.18	1.23	0.05	0	0	0	0	0	0	0	0
6/23/2024 21:28	56801	BENV_T1	5	11	6	0.54	0.76	0.22	-2.07	-2.14	6	6	0	3600	3600	0
6/23/2024 21:29	56801	BENV_T1	5	11	6	0.54	0.76	0.22	-1.38	-1.43	4	4	0	2400	2400	0
6/23/2024 21:29	56803	BENV_T1	4	3	-1	1.18	1.23	0.05	0	0	0	0	0	0	0	0
6/23/2024 21:30	56801	BENV_T1	5	11	6	0.54	0.81	0.27	-1.38	-1.43	4	4	0	2400	2400	0
6/23/2024 21:30	56803	BENV_T1	3	4	1	1.63	1.23	-0.4	0	0	0	0	0	0	0	0
6/23/2024 21:32	56803	BENV_T1	3	4	1	1.63	1.23	-0.4	0	0	0	0	0	0	0	0
6/23/2024 21:32	56801	BENV_T1	5	11	6	0.54	0.81	0.27	-0.69	-0.71	2	2	0	1200	1200	0
6/23/2024 21:40	60801	BUCK_T1	0	0	0	0	0	0	-0.57	-0.58	1	1	0	600	600	0
6/23/2024 21:53	46206	DANV_T2	1	1	0	0.7	0	-0.7	0.21	0.2	1	1	0	1200	1200	0
6/23/2024 21:53	47401	PENS_T1	0	0	0	0	0	0	0.24	0.18	0	0	0	0	0	0
6/23/2024 21:53	46203	DANV_T2	5	5	0	0.2	0.32	0.12	0	0	0	0	0	0	0	0
6/23/2024 21:54	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/23/2024 21:56	64305	LINC_T1	1	1	0	0.2	0	-0.2	-0.08	-0.08	0	0	0	0	0	0
6/23/2024 21:57	64305	LINC_T1	1	1	0	0.2	0	-0.2	-0.08	-0.08	0	0	0	0	0	0
6/23/2024 22:00	46203	DANV_T2	5	4	-1	0.24	0.35	0.11	0	0	0	0	0	0	0	0
6/23/2024 22:00	40101	HUNT_T2	9	8	-1	0.66	0.5	-0.16	-1.74	-1.76	0	0	0	0	0	0
6/23/2024 22:00	46206	DANV_T2	1	0	-1	0.5	0	-0.5	0.21	0.2	1	1	0	1200	1200	0
6/23/2024 22:01	40101	HUNT_T2	9	8	-1	0.66	0.5	-0.16	-0.87	-0.88	0	0	0	0	0	0
6/23/2024 22:04	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/23/2024 22:05	40101	HUNT_T2	9	8	-1	0.66	0.5	-0.16	-0.87	-0.88	0	0	0	0	0	0
6/23/2024 22:05	45302	WBER_T2	0	0	0	0	0	0	1.47	1.46	0	0	0	0	0	0
6/23/2024 22:05	57403	SPAN_T1	0	1	1	0	0	0	-0.37	0.44	0	0	0	0	0	0
6/23/2024 22:08	60305	TWVA_T2	0	0	0	0	0	0	1.4	1.4	0	0	0	0	0	0
6/23/2024 22:09	44902	SCOT_T2	117	0	-117	0.14	0	-0.14	-1.68	-0.53	0	0	0	0	0	0
6/23/2024 22:09	46001	BERW_T1	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
6/23/2024 22:10	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/23/2024 22:14	56504	ROCK_T2	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
6/23/2024 22:14	11803	FRAN_T2	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
6/23/2024 22:14	53902	HALI_T2	1	1	0	5	5.2	0.2	-0.81	-0.82	0	0	0	0	0	0
6/23/2024 22:14	53903	HALI_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
6/23/2024 22:14	67605	WARW_T1	0	0	0	0	0	0	-0.95	-0.98	0	0	0	0	0	0
6/23/2024 22:14	56501	ROCK_T2	272	372	100	0.34	0.42	0.08	0	0	0	0	0	0	0	0
6/23/2024 22:14	11801	FRAN_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
6/23/2024 22:15	56504	ROCK_T2	0	1	1	0	0	0	0.41	0.37	0	0	0	0	0	0
6/23/2024 22:15	56501	ROCK_T2	371	2	-369	0.42	0.25	-0.17	0	0	0	0	0	0	0	0
6/23/2024 22:16	42903	MIDD_T2	2	2	0	0.95	0.75	-0.2	0	0	0	0	0	0	0	0
6/23/2024 22:16	53903	HALI_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
6/23/2024 22:16	42902	MIDD_T2	0	0	0	0	0	0	-1.01	-1.03	1	1	0	600	600	0
6/23/2024 22:16	53902	HALI_T2	1	1	0	5.2	5.2	0	-0.81	-0.82	0	0	0	0	0	0
6/23/2024 22:17	42902	MIDD_T2	0	0	0	0	0	0	-1.01	-1.03	1	1	0	600	600	0
6/23/2024 22:17	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:17	64201	KINZ_T1	0	0	0	0	0	0	-0.39	-0.11	3	2	-1	1500	600	-900
6/23/2024 22:17	64204	KINZ_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
6/23/2024 22:17	46802	HEPB_T1	1	0	-1	0.1	0	-0.1	0.08	0.05	0	0	0	0	0	0
6/23/2024 22:17	42903	MIDD_T2	2	2	0	0.95	0.75	-0.2	0	0	0	0	0	0	0	0
6/23/2024 22:17	13303	ORVI_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
6/23/2024 22:18	53902	HALI_T2	1	1	0	5.2	5.2	0	-0.81	-0.82	0	0	0	0	0	0
6/23/2024 22:18	53903	HALI_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
6/23/2024 22:18	56501	ROCK_T2	371	2	-369	0.42	0.25	-0.17	0	0	0	0	0	0	0	0
6/23/2024 22:18	47802	MOCA_T2	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
6/23/2024 22:18	56504	ROCK_T2	0	1	1	0	0	0	0.41	0.37	0	0	0	0	0	0
6/23/2024 22:19	64204	KINZ_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
6/23/2024 22:19	60801	BUCK_T1	0	0	0	0	0	0	-0.59	-0.6	1	1	0	600	600	0
6/23/2024 22:19	64203	KINZ_T1	0	0	0	0	0	0	-0.09	-0.66	1	2	1	600	900	300
6/23/2024 22:19	53902	HALI_T2	1	1	0	5.2	5.2	0	-0.81	-0.82	0	0	0	0	0	0
6/23/2024 22:19	47401	PENS_T1	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
6/23/2024 22:19	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:19	56501	ROCK_T2	371	2	-369	0.42	0.25	-0.17	0	0	0	0	0	0	0	0
6/23/2024 22:19	56504	ROCK_T2	0	1	1	0	0	0	0.41	0.37	0	0	0	0	0	0
6/23/2024 22:19	53903	HALI_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
6/23/2024 22:19	61304	EARL_T1	0	0	0	0	0	0	-0.22	-0.24	1	1	0	600	600	0
6/23/2024 22:20	53902	HALI_T2	1	1	0	5.2	5.2	0	-0.81	-0.82	0	0	0	0	0	0
6/23/2024 22:20	10603	BLGL_T1	160	164	4	1.04	0.86	-0.18	0.39	0.34	0	0	0	0	0	0
6/23/2024 22:20	53903	HALI_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
6/23/2024 22:20	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:20	10601	BLGL_T1	0	12	12	0	0.17	0.17	0	0	0	0	0	0	0	0
6/23/2024 22:20	46001	BERW_T1	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
6/23/2024 22:20	63401	HONY_T1	0	0	0	0	0	0	0.16	0.21	1	1	0	600	600	0
6/23/2024 22:20	56501	ROCK_T2	371	2	-369	0.42	0.25	-0.17	-2.7	-1.81	0	0	0	0	0	0
6/23/2024 22:20	67603	WARW_T1	0	0	0	0	0	0	-0.83	-0.85	0	0	0	0	0	0
6/23/2024 22:20	65604	QVIL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
6/23/2024 22:20	65601	QVIL_T2	0	0	0	0	0	0	-0.19	-0.32	1	1	0	900	900	0
6/23/2024 22:21	56504	ROCK_T2	0	1	1	0	0	0	0.41	0.37	0	0	0	0	0	0
6/23/2024 22:21	56501	ROCK_T2	371	2	-369	0.42	0.25	-0.17	-8.1	-5.42	0	0	0	0	0	0
6/23/2024 22:22	65001	NEFF_T2	0	0	0	0	0	0	-0.43	-0.47	1	1	0	1200	1200	0
6/23/2024 22:22	62606	ENGL_T1	14	14	0	2.49	1.2	-1.29	0	0	0	0	0	0	0	0
6/23/2024 22:22	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:22	66703	STRA_T1	0	0	0	0	0	0	-0.93	-0.96	0	0	0	0	0	0
6/23/2024 22:22	66701	STRA_T1	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/23/2024 22:22	62604	ENGL_T1	0	0	0	0	0	0	-0.92	-0.95	1	1	0	600	600	0
6/23/2024 22:22	62607	ENGL_T1	6	2	-4	1	1.15	0.15	0	0	0	0	0	0	0	0
6/23/2024 22:22	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
6/23/2024 22:22	56501	ROCK_T2	371	2	-369	0.42	0.25	-0.17	-1.81	-1.8	0	0	0	0	0	0
6/23/2024 22:23	60801	BUCK_T1	0	0	0	0	0	0	-0.6	-0.61	1	1	0	600	600	0
6/23/2024 22:23	63304	GREE_T1	0	3	3	0	0.13	0.13	-2.47	-2.51	0	0	0	0	0	0
6/23/2024 22:23	65604	QVIL_T2	1	1	0	1.2	1.3	0.1	0.76	0.75	0	0	0	0	0	0
6/23/2024 22:23	56501	ROCK_T2	371	2	-369	0.42	0.25	-0.17	-1.81	-1.8	0	0	0	0	0	0
6/23/2024 22:23	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:23	63403	HONY_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
6/23/2024 22:23	63402	HONY_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/23/2024 22:24	63401	HONY_T1	0	0	0	0	0	0	0.21	0.1	1	1	0	600	600	0
6/23/2024 22:24	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
6/23/2024 22:24	52401	GRPA_T2	6	2	-4	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/23/2024 22:24	54201	PENN_T1	4	7	3	1.13	0.74	-0.39	-1.56	-1.58	0	0	0	0	0	0
6/23/2024 22:24	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:24	52404	GRPA_T2	0	0	0	0	0	0	-0.63	-0.65	0	0	0	0	0	0
6/23/2024 22:24	54203	PENN_T1	5	15	10	0.84	0.48	-0.36	0	0	0	0	0	0	0	0
6/23/2024 22:24	52403	GRPA_T2	19	13	-6	0.86	0.89	0.03	0	0	0	0	0	0	0	0
6/23/2024 22:25	67203	TEHI_T1	0	0	0	0	0	0	1.49	1.47	1	2	1	900	1500	600
6/23/2024 22:25	52403	GRPA_T2	19	13	-6	0.86	0.89	0.03	0	0	0	0	0	0	0	0
6/23/2024 22:25	52401	GRPA_T2	6	2	-4	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/23/2024 22:25	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
6/23/2024 22:25	55101	WERT_T1	0	0	0	0	0	0	-2.43	-2.42	4	4	0	3300	3300	0
6/23/2024 22:25	47401	PENS_T1	0	0	0	0	0	0	0.12	0.06	0	0	0	0	0	0
6/23/2024 22:25	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:25	47101	MARL_T1	69	144	75	1.22	1.09	-0.13	-0.78	-0.85	1	1	0	600	600	0
6/23/2024 22:25	52404	GRPA_T2	0	0	0	0	0	0	-0.63	-0.65	0	0	0	0	0	0
6/23/2024 22:25	47104	MARL_T1	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
6/23/2024 22:26	51003	NHAR_T1	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
6/23/2024 22:26	48901	FOSP_T2	0	0	0	0	0	0	-0.33	-0.34	1	1	0	600	600	0
6/23/2024 22:26	65604	QVIL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
6/23/2024 22:26	51004	NHAR_T1	1	1	0	6.5	6.4	-0.1	-1.27	-1.29	0	0	0	0	0	0
6/23/2024 22:26	51002	NHAR_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/23/2024 22:26	65603	QVIL_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
6/23/2024 22:27	11804	FRAN_T1	27	18	-9	0.56	0.34	-0.22	1.05	1.04	0	0	0	0	0	0
6/23/2024 22:27	42903	MIDD_T2	2	2	0	0.95	0.75	-0.2	0	0	0	0	0	0	0	0
6/23/2024 22:27	24902	WHHA_T1	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
6/23/2024 22:27	63401	HONY_T1	0	0	0	0	0	0	0.42	0.19	2	2	0	1200	1200	0
6/23/2024 22:27	51004	NHAR_T1	1	1	0	6.5	6.4	-0.1	-1.27	-1.29	0	0	0	0	0	0
6/23/2024 22:27	42902	MIDD_T2	0	0	0	0	0	0	-1.03	-1.04	1	1	0	600	600	0
6/23/2024 22:27	51003	NHAR_T1	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
6/23/2024 22:27	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
6/23/2024 22:27	51002	NHAR_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/23/2024 22:27	47401	PENS_T1	0	0	0	0	0	0	0.12	0.06	0	0	0	0	0	0
6/23/2024 22:28	61304	EARL_T1	0	0	0	0	0	0	-0.24	-0.26	1	1	0	600	600	0
6/23/2024 22:28	44301	BEAV_T2	1	1	0	0.5	0.4	-0.1	-0.47	-0.49	1	1	0	600	600	0
6/23/2024 22:28	51002	NHAR_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/23/2024 22:28	51004	NHAR_T1	1	1	0	6.5	6.4	-0.1	-1.27	-1.29	0	0	0	0	0	0
6/23/2024 22:28	42201	SHEN_T2	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
6/23/2024 22:28	51003	NHAR_T1	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
6/23/2024 22:29	42201	SHEN_T2	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
6/23/2024 22:29	47104	MARL_T1	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
6/23/2024 22:29	47101	MARL_T1	69	144	75	1.22	1.09	-0.13	-0.78	-0.85	1	1	0	600	600	0
6/23/2024 22:29	51002	NHAR_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
6/23/2024 22:29	51003	NHAR_T1	2	2	0	0.15	0.3	0.15	-2.89	-2.9	1	1	0	1200	1200	0
6/23/2024 22:29	44301	BEAV_T2	1	1	0	0.5	0.4	-0.1	-0.47	-0.49	1	1	0	600	600	0
6/23/2024 22:29	51004	NHAR_T1	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
6/23/2024 22:30	47101	MARL_T1	141	95	-46	1.19	1	-0.19	-1.55	-1.7	2	2	0	1200	1200	0
6/23/2024 22:30	56801	BENV_T1	9	7	-2	0.76	1.01	0.25	-0.78	-0.81	2	2	0	1200	1200	0
6/23/2024 22:30	67901	WNHO_T2	53	111	58	0.26	0.37	0.11	-0.25	-0.25	0	0	0	0	0	0
6/23/2024 22:30	56803	BENV_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/23/2024 22:30	55101	WERT_T1	0	0	0	0	0	0	-2.43	-2.42	4	4	0	3300	3300	0
6/23/2024 22:30	47401	PENS_T1	0	0	0	0	0	0	0.24	0.12	0	0	0	0	0	0
6/23/2024 22:30	45501	DERR_T2	1	1	0	2	0	-2	-0.28	-0.2	2	2	0	1800	1800	0
6/23/2024 22:30	47104	MARL_T1	4	1	-3	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/23/2024 22:30	61304	EARL_T1	0	0	0	0	0	0	-0.24	-0.26	1	1	0	600	600	0
6/23/2024 22:31	62604	ENGL_T1	0	0	0	0	0	0	-0.92	-0.95	1	1	0	600	600	0
6/23/2024 22:31	61304	EARL_T1	0	0	0	0	0	0	-0.24	-0.26	1	1	0	600	600	0
6/23/2024 22:31	51802	EBEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:31	51804	EBEN_T2	0	0	0	0	0	0	-0.93	-0.95	1	1	0	900	900	0
6/23/2024 22:31	62606	ENGL_T1	14	9	-5	2.06	0.58	-1.48	0	0	0	0	0	0	0	0
6/23/2024 22:31	57101	SPHI_T2	6	6	0	1.02	0.75	-0.27	0	0	0	0	0	0	0	0
6/23/2024 22:31	42902	MIDD_T2	0	0	0	0	0	0	-1.03	-1.04	1	1	0	600	600	0
6/23/2024 22:31	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
6/23/2024 22:31	42903	MIDD_T2	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
6/23/2024 22:31	57104	SPHI_T2	1	2	1	1.1	1.7	0.6	-2.4	-1.16	1	1	0	900	900	0
6/23/2024 22:31	57106	SPHI_T2	3	3	0	1.23	0.83	-0.4	0	0	0	0	0	0	0	0
6/23/2024 22:31	62607	ENGL_T1	2	2	0	2	0.6	-1.4	0	0	0	0	0	0	0	0
6/23/2024 22:32	58706	ROSE_T2	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
6/23/2024 22:32	61102	BERK_T5	0	0	0	0	0	0	0.06	0.04	1	1	0	300	300	0
6/23/2024 22:32	41302	FISH_T2	12	12	0	0.68	0.78	0.1	0	0	0	0	0	0	0	0
6/23/2024 22:32	58701	ROSE_T2	0	0	0	0	0	0	-1.72	-1.76	1	1	0	600	600	0
6/23/2024 22:32	47401	PENS_T1	0	0	0	0	0	0	0.12	0.06	0	0	0	0	0	0
6/23/2024 22:32	41304	FISH_T2	1	1	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
6/23/2024 22:32	14006	SELL_T2	0	0	0	0	0	0	-0.42	-0.45	1	1	0	1200	1200	0
6/23/2024 22:32	10204	ALLE_T2	10	1	-9	0.38	0	-0.38	0	0	1	1	0	600	600	0
6/23/2024 22:32	10102	ALLE_T2	1	1	0	8.3	8.1	-0.2	0	0	0	0	0	0	0	0
6/23/2024 22:33	12602	MACA_T1	2	2	0	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/23/2024 22:33	22903	HARW_T1	15	9	-6	0.89	0.24	-0.65	0	0	0	0	0	0	0	0
6/23/2024 22:33	47101	MARL_T1	141	95	-46	1.19	1	-0.19	-0.78	-0.85	1	1	0	600	600	0
6/23/2024 22:33	44202	POIN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/23/2024 22:33	22905	HARW_T1	45	44	-1	0.72	0.71	-0.01	0	0	0	0	0	0	0	0
6/23/2024 22:33	12606	MACA_T1	56	43	-13	2.22	1.38	-0.84	0	0	0	0	0	0	0	0
6/23/2024 22:33	67801	WLAN_T1	0	0	0	0	0	0	-1.05	-1.1	0	0	0	0	0	0
6/23/2024 22:33	45702	LIND_T2	0	0	0	0	0	0	-1.49	-1.51	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/23/2024 22:33	45501	DERR_T2	1	1	0	2	0	-2	-0.28	-0.2	2	2	0	1800	1800	0
6/23/2024 22:33	22901	HARW_T1	25	8	-17	0.48	0	-0.48	-0.36	-0.27	1	1	0	1200	1200	0
6/23/2024 22:33	40901	JESH_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/23/2024 22:33	67804	WLAN_T1	4	3	-1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
6/23/2024 22:33	12605	MACA_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
6/23/2024 22:33	44203	POIN_T2	0	0	0	0	0	0	0.17	0.27	1	1	0	900	900	0
6/23/2024 22:33	47104	MARL_T1	4	1	-3	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/23/2024 22:33	61102	BERK_T5	0	0	0	0	0	0	0.06	0.04	1	1	0	300	300	0
6/23/2024 22:33	40902	JESH_T1	0	0	0	0	0	0	-1.49	-1.52	2	2	0	1200	1200	0
6/23/2024 22:34	46903	MNTG_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
6/23/2024 22:34	11104	EGYP_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/23/2024 22:34	61102	BERK_T5	0	0	0	0	0	0	0.06	0.04	1	1	0	300	300	0
6/23/2024 22:34	24103	EHAZ_T1	0	0	0	0	0	0	-1.37	-1.38	0	0	0	0	0	0
6/23/2024 22:34	12701	MACU_T1	0	0	0	0	0	0	-0.76	-0.78	1	1	0	1200	1200	0
6/23/2024 22:34	24102	EHAZ_T1	3	1	-2	0.53	1.1	0.57	0	0	0	0	0	0	0	0
6/23/2024 22:34	43202	MVIL_T2	0	14	14	0	0.16	0.16	-1.03	-1.03	0	0	0	0	0	0
6/23/2024 22:34	56803	BENV_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/23/2024 22:34	11102	EGYP_T1	4	6	2	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/23/2024 22:34	24105	EHAZ_T1	4	4	0	6.2	6.18	-0.02	0	0	0	0	0	0	0	0
6/23/2024 22:34	28704	HAML_T2	0	1	1	0	0.1	0.1	0.06	0.06	0	0	0	0	0	0
6/23/2024 22:34	47101	MARL_T1	141	95	-46	1.19	1	-0.19	-0.78	-0.85	1	1	0	600	600	0
6/23/2024 22:34	41304	FISH_T2	1	1	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
6/23/2024 22:34	22905	HARW_T1	45	44	-1	0.72	0.71	-0.01	-0.24	-0.25	0	0	0	0	0	0
6/23/2024 22:34	67605	WARW_T1	0	0	0	0	0	0	-0.98	-1.01	0	0	0	0	0	0
6/23/2024 22:34	62604	ENGL_T1	0	0	0	0	0	0	-0.92	-0.95	1	1	0	600	600	0
6/23/2024 22:34	62605	ENGL_T1	0	0	0	0	0	0	-1.95	-1.96	0	0	0	0	0	0
6/23/2024 22:34	61701	ELIZ_T1	1	1	0	3.1	3.7	0.6	0.96	0.97	0	0	0	0	0	0
6/23/2024 22:34	63501	HEID_TBK1-2	0	0	0	0	0	0	0.26	0.25	1	1	0	900	900	0
6/23/2024 22:34	67602	WARW_T2	0	0	0	0	0	0	0.03	0.02	2	2	0	1500	1500	0
6/23/2024 22:34	46203	DANV_T2	4	0	-4	0.23	0	-0.23	-5.12	-3.24	0	0	0	0	0	0
6/23/2024 22:34	12005	HATF_T1	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/23/2024 22:34	62606	ENGL_T1	14	9	-5	2.06	0.58	-1.48	0	0	0	0	0	0	0	0
6/23/2024 22:34	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/23/2024 22:34	66505	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/23/2024 22:34	62601	ENGL_T1	0	0	0	0	0	0	-0.99	-1	0	0	0	0	0	0
6/23/2024 22:34	62607	ENGL_T1	2	2	0	2	0.6	-1.4	0	0	0	0	0	0	0	0
6/23/2024 22:34	24101	EHAZ_T1	12	18	6	0.28	0.56	0.28	0	0	0	0	0	0	0	0
6/23/2024 22:34	11103	EGYP_T1	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
6/23/2024 22:34	47104	MARL_T1	4	1	-3	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/23/2024 22:34	10801	OHH_T1	51	17	-34	0.52	0.38	-0.14	-1.24	-1.28	3	3	0	2100	2100	0
6/23/2024 22:34	22903	HARW_T1	15	9	-6	0.89	0.24	-0.65	0	0	0	0	0	0	0	0
6/23/2024 22:34	46901	MNTG_T2	0	1	1	0	0.1	0.1	0.47	0.49	0	0	0	0	0	0
6/23/2024 22:34	12006	HATF_T1	0	0	0	0	0	0	1.32	1.32	0	0	0	0	0	0
6/23/2024 22:34	64302	LINC_T2	0	0	0	0	0	0	1.28	1.23	0	0	0	0	0	0
6/23/2024 22:34	22901	HARW_T1	25	8	-17	0.48	0	-0.48	0	0	0	0	0	0	0	0
6/23/2024 22:34	61505	EPET_T1	0	0	0	0	0	0	1.25	1.21	0	0	0	0	0	0
6/23/2024 22:34	56801	BENV_T1	9	7	-2	0.76	1.01	0.25	-0.78	-0.81	2	2	0	1200	1200	0
6/23/2024 22:34	55101	WERT_T1	0	0	0	0	0	0	-4.86	-4.85	8	8	0	6600	6600	0
6/23/2024 22:34	66504	SMAN_T2	2	1	-1	1.7	0	-1.7	-1.18	-1.46	2	2	0	2400	2400	0
6/23/2024 22:34	41302	FISH_T2	12	12	0	0.68	0.78	0.1	0	0	0	0	0	0	0	0
6/23/2024 22:34	48302	ORWI_T2	2	2	0	0.3	0.8	0.5	-0.42	-0.47	0	0	0	0	0	0
6/23/2024 22:35	62606	ENGL_T1	14	9	-5	2.06	0.58	-1.48	0	0	0	0	0	0	0	0
6/23/2024 22:35	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/23/2024 22:35	58001	WCAR_T1	4	4	0	0.63	0.8	0.17	0	0	0	0	0	0	0	0
6/23/2024 22:35	16101	BING_T2	4	1	-3	2.85	9.3	6.45	0	0	0	0	0	0	0	0
6/23/2024 22:35	40902	JESH_T1	0	0	0	0	0	0	-1.49	-1.52	2	2	0	1200	1200	0
6/23/2024 22:35	58003	WCAR_T1	1	2	1	1.6	0.85	-0.75	0.39	0.38	1	1	0	600	600	0
6/23/2024 22:35	12304	LANA_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/23/2024 22:35	52004	LING_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
6/23/2024 22:35	41901	REED_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/23/2024 22:35	41902	REED_T1	0	0	0	0	0	0	0.36	0.28	1	1	0	900	900	0
6/23/2024 22:35	46301	ROHR_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
6/23/2024 22:35	12305	LANA_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
6/23/2024 22:35	47002	HUGH_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/23/2024 22:35	41301	FISH_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
6/23/2024 22:35	67602	WARW_T2	0	0	0	0	0	0	0.1	0.06	6	6	0	4500	4500	0
6/23/2024 22:35	46302	ROHR_T1	4	4	0	1.18	1.38	0.2	0	0	0	0	0	0	0	0
6/23/2024 22:35	57401	SPAN_T1	0	6	6	0	0	0	-1.01	-0.33	1	1	0	600	600	0
6/23/2024 22:35	62607	ENGL_T1	2	2	0	2	0.6	-1.4	0	0	0	0	0	0	0	0
6/23/2024 22:35	43304	WATS_T2	1	0	-1	0.3	0	-0.3	-0.81	-0.81	0	0	0	0	0	0
6/23/2024 22:35	47001	HUGH_T2	3	3	0	7	7.23	0.23	-1.44	-1.46	1	1	0	900	900	0
6/23/2024 22:35	41303	FISH_T1	5	4	-1	1.26	1.2	-0.06	0	0	0	0	0	0	0	0
6/23/2024 22:35	61102	BERK_T5	0	0	0	0	0	0	0.11	0.07	2	2	0	600	600	0
6/23/2024 22:35	46203	DANV_T2	4	0	-4	0.23	0	-0.23	-2.56	-1.62	0	0	0	0	0	0
6/23/2024 22:35	41305	FISH_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
6/23/2024 22:35	67605	WARW_T1	0	0	0	0	0	0	-0.98	-1.01	0	0	0	0	0	0
6/23/2024 22:35	43301	WATS_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/23/2024 22:35	62605	ENGL_T1	0	0	0	0	0	0	-1.95	-1.96	0	0	0	0	0	0
6/23/2024 22:35	62604	ENGL_T1	0	0	0	0	0	0	-0.92	-0.95	1	1	0	600	600	0
6/23/2024 22:35	16102	BING_T2	1	0	-1	0.3	0	-0.3	-0.34	-0.23	1	1	0	1200	1200	0
6/23/2024 22:35	16103	BING_T2	5	0	-5	0.52	0	-0.52	-1.45	-1.51	1	1	0	900	900	0
6/23/2024 22:35	12302	LANA_T2	0	0	0	0	0	0	-1.92	-1.95	3	3	0	2700	2700	0
6/23/2024 22:35	11507	FREE_T2	26	15	-11	0.72	0.58	-0.14	0.81	0.72	1	1	0	600	600	0
6/23/2024 22:35	40901	JESH_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/23/2024 22:36	40502	CRES_T2	0	9	9	0	0.27	0.27	-0.32	-0.35	0	0	0	0	0	0
6/23/2024 22:36	67103	SPRI_T1	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
6/23/2024 22:36	47001	HUGH_T2	3	3	0	7	7.23	0.23	-1.46	-1.49	1	1	0	900	900	0
6/23/2024 22:36	47104	MARL_T1	4	1	-3	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/23/2024 22:36	24102	EHAZ_T1	3	1	-2	0.53	1.1	0.57	0	0	0	0	0	0	0	0
6/23/2024 22:36	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/23/2024 22:36	52403	GRPA_T2	13	9	-4	0.97	1.55	0.58	0	0	0	0	0	0	0	0
6/23/2024 22:36	41901	REED_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/23/2024 22:36	66902	SHIL_T2	13	53	40	0.15	0.18	0.03	0	0	0	0	0	0	0	0
6/23/2024 22:36	22901	HARW_T1	25	8	-17	0.48	0	-0.48	0	0	0	0	0	0	0	0
6/23/2024 22:36	47101	MARL_T1	141	95	-46	1.19	1	-0.19	-0.78	-0.85	1	1	0	600	600	0
6/23/2024 22:36	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:36	66901	SHIL_T2	39	73	34	0.14	0.31	0.17	-0.48	-0.5	0	0	0	0	0	0
6/23/2024 22:36	24101	EHAZ_T1	12	18	6	0.28	0.56	0.28	0	0	0	0	0	0	0	0
6/23/2024 22:36	40902	JESH_T1	0	0	0	0	0	0	-1.52	-0.94	2	2	0	1200	1200	0
6/23/2024 22:36	12305	LANA_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
6/23/2024 22:36	40901	JESH_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
6/23/2024 22:36	62607	ENGL_T1	2	2	0	2	0.6	-1.4	0	0	0	0	0	0	0	0
6/23/2024 22:36	22903	HARW_T1	15	9	-6	0.89	0.24	-0.65	0	0	0	0	0	0	0	0
6/23/2024 22:36	12304	LANA_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/23/2024 22:36	11504	FREE_T1	0	9	9	0	0.35	0.35	-1.72	-1.59	2	2	0	2100	2100	0
6/23/2024 22:36	66505	SMAN_T2	1	0	-1	0.3	0	-0.3	0.23	0.08	3	3	0	2100	2100	0
6/23/2024 22:36	67602	WARW_T2	0	0	0	0	0	0	0.02	0	2	2	0	1500	1500	0
6/23/2024 22:36	12301	LANA_T2	0	0	0	0	0	0	-0.78	-0.8	1	1	0	1200	1200	0
6/23/2024 22:36	13501	MCMI_T1	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
6/23/2024 22:36	57401	SPAN_T1	0	6	6	0	0	0	-2.02	-0.67	2	2	0	1200	1200	0
6/23/2024 22:36	55101	WERT_T1	0	0	0	0	0	0	-2.43	-2.42	4	4	0	3300	3300	0
6/23/2024 22:36	52402	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/23/2024 22:36	24105	EHAZ_T1	4	4	0	6.2	6.18	-0.02	0	0	0	0	0	0	0	0
6/23/2024 22:36	45502	DERR_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
6/23/2024 22:36	13801	SALI_T1	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
6/23/2024 22:36	52401	GRPA_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/23/2024 22:36	22905	HARW_T1	45	44	-1	0.72	0.71	-0.01	-0.24	-0.25	0	0	0	0	0	0
6/23/2024 22:36	62606	ENGL_T1	14	9	-5	2.06	0.58	-1.48	0	0	0	0	0	0	0	0
6/23/2024 22:36	12701	MACU_T1	0	0	0	0	0	0	-0.78	-0.79	1	1	0	1200	1200	0
6/23/2024 22:36	52404	GRPA_T2	0	0	0	0	0	0	-0.63	-0.65	0	0	0	0	0	0
6/23/2024 22:36	24103	EHAZ_T1	0	0	0	0	0	0	-1.37	-1.38	0	0	0	0	0	0
6/23/2024 22:36	66504	SMAN_T2	2	1	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
6/23/2024 22:36	62605	ENGL_T1	0	0	0	0	0	0	-1.96	-1.98	0	0	0	0	0	0
6/23/2024 22:36	47002	HUGH_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/23/2024 22:36	52002	LING_T2	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
6/23/2024 22:36	66903	SHIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/23/2024 22:36	41902	REED_T1	0	0	0	0	0	0	0.36	0.28	1	1	0	900	900	0
6/23/2024 22:36	45501	DERR_T2	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
6/23/2024 22:37	62607	ENGL_T1	2	2	0	2	0.6	-1.4	0	0	0	0	0	0	0	0
6/23/2024 22:37	29402	BELT_T1	1	1	0	8.2	8.5	0.3	0	0	0	0	0	0	0	0
6/23/2024 22:37	67703	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	2	2	0	1800	1800	0
6/23/2024 22:37	46803	HEPB_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/23/2024 22:37	62102	ELAN_T1	1	0	-1	1.8	0	-1.8	0.61	0.6	0	0	0	0	0	0
6/23/2024 22:37	46203	DANV_T2	4	0	-4	0.23	0	-0.23	-3.24	-3.26	0	0	0	0	0	0
6/23/2024 22:37	43301	WATS_T2	1	1	0	0.3	0.5	0.2	-0.33	-0.34	1	1	0	900	900	0
6/23/2024 22:37	62606	ENGL_T1	14	9	-5	2.06	0.58	-1.48	0	0	0	0	0	0	0	0
6/23/2024 22:37	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/23/2024 22:37	46801	HEPB_T2	8	14	6	0.45	0.38	-0.07	0.01	-0.02	0	0	0	0	0	0
6/23/2024 22:37	43304	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/23/2024 22:37	44202	POIN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/23/2024 22:37	10805	OHH_T2	29	23	-6	1.08	1.55	0.47	-0.77	-0.79	1	1	0	600	600	0
6/23/2024 22:37	57401	SPAN_T1	0	6	6	0	0	0	-0.33	-0.38	1	1	0	600	600	0
6/23/2024 22:37	56801	BENV_T1	9	7	-2	0.76	1.01	0.25	-0.81	-0.84	2	2	0	1200	1200	0
6/23/2024 22:37	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/23/2024 22:37	61102	BERK_T5	0	0	0	0	0	0	0.04	0.02	1	1	0	300	300	0
6/23/2024 22:37	66505	SMAN_T2	1	0	-1	0.3	0	-0.3	0.23	0.08	3	3	0	2100	2100	0
6/23/2024 22:37	13503	MCMI_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
6/23/2024 22:37	62604	ENGL_T1	0	0	0	0	0	0	-0.95	-0.93	1	1	0	600	600	0
6/23/2024 22:37	56803	BENV_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/23/2024 22:37	62101	ELAN_T1	1	1	0	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
6/23/2024 22:37	44203	POIN_T2	0	0	0	0	0	0	0.27	0.11	1	1	0	900	900	0
6/23/2024 22:37	66504	SMAN_T2	2	1	-1	1.7	0	-1.7	-0.73	-0.78	1	1	0	1200	1200	0
6/23/2024 22:37	46101	MACI_T2	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
6/23/2024 22:38	67605	WARW_T1	0	0	0	0	0	0	-1.01	-1.05	0	0	0	0	0	0
6/23/2024 22:38	47401	PENS_T1	0	0	0	0	0	0	0.06	0	0	0	0	0	0	0
6/23/2024 22:38	58803	COCO_T1	1	1	0	0.4	0.7	0.3	-0.93	-0.97	1	1	0	600	600	0
6/23/2024 22:38	45501	DERR_T2	1	1	0	2	0	-2	-0.2	-0.27	2	2	0	1800	1800	0
6/23/2024 22:38	11102	EGYP_T1	4	6	2	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/23/2024 22:38	46203	DANV_T2	4	0	-4	0.23	0	-0.23	-1.62	-1.63	0	0	0	0	0	0
6/23/2024 22:38	52403	GRPA_T2	13	9	-4	0.97	1.55	0.58	0	0	0	0	0	0	0	0
6/23/2024 22:38	20401	ASHF_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/23/2024 22:38	57401	SPAN_T1	0	6	6	0	0	0	-0.33	-0.38	1	1	0	600	600	0
6/23/2024 22:38	20403	ASHF_T2	0	1	1	0	0	0	-0.43	0.72	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/23/2024 22:38	60502	NMAN_T2	0	0	0	0	0	0	0.19	0.14	0	0	0	0	0	0
6/23/2024 22:38	67602	WARW_T2	0	0	0	0	0	0	0.04	0	4	4	0	3000	3000	0
6/23/2024 22:38	61102	BERK_T5	0	0	0	0	0	0	0.11	0.06	3	3	0	900	900	0
6/23/2024 22:38	60501	NMAN_T2	3	3	0	4.53	5.33	0.8	0	0	0	0	0	0	0	0
6/23/2024 22:38	52401	GRPA_T2	2	0	-2	0.55	0	-0.55	-0.18	-0.2	0	0	0	0	0	0
6/23/2024 22:38	52402	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/23/2024 22:38	10805	CHHI_T2	29	23	-6	1.08	1.55	0.47	-0.77	-0.79	1	1	0	600	600	0
6/23/2024 22:38	11104	EGYP_T1	0	2	2	0	0.2	0.2	-0.14	0.7	0	0	0	0	0	0
6/23/2024 22:38	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/23/2024 22:38	20402	ASHF_T2	6	6	0	2.2	1.23	-0.97	0	0	0	0	0	0	0	0
6/23/2024 22:38	64302	LINC_T2	0	0	0	0	0	0	1.23	1.2	0	0	0	0	0	0
6/23/2024 22:38	54701	NEBL_T1	2	1	-1	0.85	1.4	0.55	0	0	1	1	0	600	600	0
6/23/2024 22:39	62606	ENGL_T1	14	9	-5	2.06	0.58	-1.48	0	0	0	0	0	0	0	0
6/23/2024 22:39	43202	MVIL_T2	0	14	14	0	0.16	0.16	-0.52	-0.52	0	0	0	0	0	0
6/23/2024 22:39	43301	WATS_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/23/2024 22:39	46903	MNTG_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
6/23/2024 22:39	60502	NMAN_T2	0	0	0	0	0	0	0.19	0.14	0	0	0	0	0	0
6/23/2024 22:39	46901	MNTG_T2	0	1	1	0	0.1	0.1	0.49	0.51	0	0	0	0	0	0
6/23/2024 22:39	43304	WATS_T2	1	0	-1	0.3	0	-0.3	-1.62	-1.61	0	0	0	0	0	0
6/23/2024 22:39	61701	ELIZ_T1	1	1	0	3.1	3.7	0.6	0.97	1.05	0	0	0	0	0	0
6/23/2024 22:39	12701	MACU_T1	0	0	0	0	0	0	-1.55	-1.59	2	2	0	2400	2400	0
6/23/2024 22:39	62607	ENGL_T1	2	2	0	2	0.6	-1.4	0	0	0	0	0	0	0	0
6/23/2024 22:39	56501	ROCK_T2	2	5	3	0.25	0.26	0.01	-1.8	-1.91	0	0	0	0	0	0
6/23/2024 22:39	22905	HARW_T1	45	44	-1	0.72	0.71	-0.01	0	0	0	0	0	0	0	0
6/23/2024 22:39	14603	SWHI_T1	0	0	0	0	0	0	-1.06	-1.08	2	2	0	1200	1200	0
6/23/2024 22:39	52002	LING_T2	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
6/23/2024 22:39	57401	SPAN_T1	0	6	6	0	0	0	-0.33	-0.38	1	1	0	600	600	0
6/23/2024 22:39	22901	HARW_T1	25	8	-17	0.48	0	-0.48	-0.27	-0.43	1	1	0	1200	1200	0
6/23/2024 22:39	62604	ENGL_T1	0	0	0	0	0	0	-0.95	-0.93	1	1	0	600	600	0
6/23/2024 22:39	22903	HARW_T1	15	9	-6	0.89	0.24	-0.65	0	0	0	0	0	0	0	0
6/23/2024 22:39	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:39	60501	NMAN_T2	3	3	0	4.53	5.33	0.8	0	0	0	0	0	0	0	0
6/23/2024 22:40	14601	SWHI_T1	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
6/23/2024 22:40	46101	MACI_T2	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
6/23/2024 22:40	58706	ROSE_T2	1	1	0	1.6	1.4	-0.2	0.95	0.94	1	1	0	600	600	0
6/23/2024 22:40	67605	WARW_T1	0	0	0	0	0	0	-2.02	-2.09	0	0	0	0	0	0
6/23/2024 22:40	58001	WCAR_T1	4	4	0	0.63	0.8	0.17	0	0	0	0	0	0	0	0
6/23/2024 22:40	57103	SPHI_T2	0	0	0	0	0	0	-0.36	-0.38	1	1	0	600	600	0
6/23/2024 22:40	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:40	57104	SPHI_T2	1	2	1	1.1	1.7	0.6	0	0	0	0	0	0	0	0
6/23/2024 22:40	56501	ROCK_T2	2	5	3	0.25	0.26	0.01	0	0	0	0	0	0	0	0
6/23/2024 22:40	29402	BELT_T1	1	1	0	8.2	8.5	0.3	0	0	0	0	0	0	0	0
6/23/2024 22:40	52402	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/23/2024 22:40	65401	MARI_T1	8	5	-3	0.79	0	-0.79	0	0	0	0	0	0	0	0
6/23/2024 22:40	57401	SPAN_T1	0	6	6	0	0	0	-0.67	-0.76	2	2	0	1200	1200	0
6/23/2024 22:40	58401	MORO_T1	0	0	0	0	0	0	-1.96	-2	3	3	0	2100	2100	0
6/23/2024 22:40	52403	GRPA_T2	13	9	-4	0.97	1.55	0.58	-0.44	-0.4	0	0	0	0	0	0
6/23/2024 22:40	10801	CHHI_T1	51	17	-34	0.52	0.38	-0.14	-1.28	-1.32	3	3	0	2100	2100	0
6/23/2024 22:40	56504	ROCK_T2	0	1	1	0	0	0	0.34	0.32	0	0	0	0	0	0
6/23/2024 22:40	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/23/2024 22:40	57101	SPHI_T2	6	6	0	1.02	0.75	-0.27	0	0	0	0	0	0	0	0
6/23/2024 22:40	57106	SPHI_T2	3	3	0	1.23	0.83	-0.4	0	0	0	0	0	0	0	0
6/23/2024 22:40	58003	WCAR_T1	1	2	1	1.6	0.85	-0.75	0.38	0.37	1	1	0	600	600	0
6/23/2024 22:40	10805	CHHI_T2	29	23	-6	1.08	1.55	0.47	-0.77	-0.79	1	1	0	600	600	0
6/23/2024 22:40	46203	DANV_T2	4	0	-4	0.23	0	-0.23	-1.62	-1.63	0	0	0	0	0	0
6/23/2024 22:40	61102	BERK_T5	0	0	0	0	0	0	0.07	0.04	2	2	0	600	600	0
6/23/2024 22:40	11104	EGYP_T1	0	2	2	0	0.2	0.2	-0.14	0.7	0	0	0	0	0	0
6/23/2024 22:40	61701	ELIZ_T1	1	1	0	3.1	3.7	0.6	0	0	0	0	0	0	0	0
6/23/2024 22:40	61703	ELIZ_T1	0	0	0	0	0	0	-2.52	-2.55	2	2	0	2100	2100	0
6/23/2024 22:40	11102	EGYP_T1	4	6	2	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/23/2024 22:40	52401	GRPA_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/23/2024 22:40	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:41	57401	SPAN_T1	0	6	6	0	0	0	-0.33	-0.38	1	1	0	600	600	0
6/23/2024 22:41	65401	MARI_T1	8	5	-3	0.79	0	-0.79	0	0	0	0	0	0	0	0
6/23/2024 22:41	26401	INOR_T1	1	1	0	7.7	7.9	0.2	0.81	0.79	0	0	0	0	0	0
6/23/2024 22:41	20402	ASHF_T2	6	6	0	2.2	1.23	-0.97	0	0	0	0	0	0	0	0
6/23/2024 22:41	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/23/2024 22:41	40101	HUNT_T2	2	1	-1	0.5	0	-0.5	-0.93	-0.96	0	0	0	0	0	0
6/23/2024 22:41	40302	TAMA_T3	3	1	-2	0.23	0.3	0.07	-1.03	0.25	0	0	0	0	0	0
6/23/2024 22:41	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/23/2024 22:41	61702	ELIZ_T2	0	0	0	0	0	0	-1.38	-1.4	2	2	0	1500	1500	0
6/23/2024 22:41	22901	HARW_T1	25	8	-17	0.48	0	-0.48	-0.27	-0.43	1	1	0	1200	1200	0
6/23/2024 22:41	20603	GRWO_T2	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/23/2024 22:41	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:41	67602	WARW_T2	0	0	0	0	0	0	0.02	0	2	2	0	1500	1500	0
6/23/2024 22:41	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:41	55101	WERT_T1	0	0	0	0	0	0	-2.42	-2.42	4	4	0	3300	3300	0
6/23/2024 22:41	42903	MIDD_T2	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
6/23/2024 22:41	10805	CHHI_T2	29	23	-6	1.08	1.55	0.47	-0.77	-0.79	1	1	0	600	600	0
6/23/2024 22:41	42902	MIDD_T2	0	0	0	0	0	0	-1.04	-1.06	1	1	0	600	600	0
6/23/2024 22:41	20401	ASHF_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/23/2024 22:41	22903	HARW_T1	15	9	-6	0.89	0.24	-0.65	0	0	0	0	0	0	0	0
6/23/2024 22:41	20601	GRWO_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
6/23/2024 22:41	48302	ORWI_T2	2	2	0	0.3	0.8	0.5	-0.23	-0.26	0	0	0	0	0	0
6/23/2024 22:41	52002	LING_T2	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
6/23/2024 22:41	22905	HARW_T1	45	44	-1	0.72	0.71	-0.01	0	0	0	0	0	0	0	0
6/23/2024 22:41	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:41	20403	ASHF_T2	0	1	1	0	0	0	-0.43	0.72	0	0	0	0	0	0
6/23/2024 22:42	22905	HARW_T1	45	44	-1	0.72	0.71	-0.01	0	0	0	0	0	0	0	0
6/23/2024 22:42	51802	EBEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:42	57304	MOAL_T2	1	1	0	0.2	0	-0.2	-0.87	0.05	0	0	0	0	0	0
6/23/2024 22:42	56801	BENV_T1	9	7	-2	0.76	1.01	0.25	-1.61	-1.67	4	4	0	2400	2400	0
6/23/2024 22:42	14401	SSLA_T1	0	0	0	0	0	0	-0.66	-0.73	1	1	0	600	600	0
6/23/2024 22:42	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/23/2024 22:42	22903	HARW_T1	15	9	-6	0.89	0.24	-0.65	0	0	0	0	0	0	0	0
6/23/2024 22:42	66505	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/23/2024 22:42	27502	WEIS_T2	6	3	-3	0.52	0.1	-0.42	-0.71	-0.75	0	0	0	0	0	0
6/23/2024 22:42	14402	SSLA_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:42	24902	WHHA_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
6/23/2024 22:42	14404	SSLA_T1	1	1	0	3.6	4.1	0.5	0	0	0	0	0	0	0	0
6/23/2024 22:42	57401	SPAN_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:42	57303	MOAL_T2	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
6/23/2024 22:42	66504	SMAN_T2	2	1	-1	1.7	0	-1.7	-0.73	-0.78	1	1	0	1200	1200	0
6/23/2024 22:42	45501	DERR_T2	1	1	0	2	0	-2	-0.41	-0.54	4	4	0	3600	3600	0
6/23/2024 22:42	46302	ROHR_T1	4	4	0	1.18	1.38	0.2	0.32	0.32	0	0	0	0	0	0
6/23/2024 22:42	56803	BENV_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/23/2024 22:42	52002	LING_T2	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
6/23/2024 22:42	67602	WARW_T2	0	0	0	0	0	0	0.02	0	2	2	0	1500	1500	0
6/23/2024 22:42	13105	NHAM_T2	37	27	-10	0.58	1.04	0.46	0	0	0	0	0	0	0	0
6/23/2024 22:42	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:42	46203	DANV_T2	4	0	-4	0.23	0	-0.23	-1.62	-1.63	0	0	0	0	0	0
6/23/2024 22:42	57403	SPAN_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
6/23/2024 22:42	13103	NHAM_T2	0	0	0	0	0	0	-1.15	-1.18	1	1	0	600	600	0
6/23/2024 22:42	58402	MORO_T1	0	0	0	0	0	0	-0.41	-0.43	3	3	0	1950	1950	0
6/23/2024 22:42	22901	HARW_T1	25	8	-17	0.48	0	-0.48	-0.53	-0.85	2	2	0	2400	2400	0
6/23/2024 22:42	51804	EBEN_T2	0	0	0	0	0	0	-0.95	-0.97	1	1	0	900	900	0
6/23/2024 22:43	60501	NMAN_T2	3	3	0	4.53	5.33	0.8	0	0	0	0	0	0	0	0
6/23/2024 22:43	66505	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/23/2024 22:43	61701	ELIZ_T1	1	1	0	3.1	3.7	0.6	0	0	0	0	0	0	0	0
6/23/2024 22:43	10204	ALLE_T2	10	1	-9	0.38	0	-0.38	0	0	1	1	0	600	600	0
6/23/2024 22:43	44301	BEAV_T2	1	1	0	0.4	0	-0.4	-0.49	-0.5	1	1	0	600	600	0
6/23/2024 22:43	67605	WARW_T1	0	0	0	0	0	0	-1.01	-1.05	0	0	0	0	0	0
6/23/2024 22:43	40101	HUNT_T2	2	1	-1	0.5	0	-0.5	-0.93	-0.96	0	0	0	0	0	0
6/23/2024 22:43	10102	ALLE_T2	1	1	0	8.3	8.1	-0.2	0	0	0	0	0	0	0	0
6/23/2024 22:43	43304	WATS_T2	1	0	-1	0.3	0	-0.3	-0.81	-0.8	0	0	0	0	0	0
6/23/2024 22:43	60502	NMAN_T2	0	0	0	0	0	0	0.19	0.14	0	0	0	0	0	0
6/23/2024 22:43	43301	WATS_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/23/2024 22:43	42903	MIDD_T2	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
6/23/2024 22:43	42902	MIDD_T2	0	0	0	0	0	0	-1.04	-1.06	1	1	0	600	600	0
6/23/2024 22:43	49804	UNIV_T1	8	1	-7	0.19	0.2	0.01	0	0	0	0	0	0	0	0
6/23/2024 22:43	66504	SMAN_T2	2	1	-1	1.7	0	-1.7	-0.73	-0.78	1	1	0	1200	1200	0
6/23/2024 22:43	52002	LING_T2	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
6/23/2024 22:43	61703	ELIZ_T1	0	0	0	0	0	0	-2.52	-2.55	2	2	0	2100	2100	0
6/23/2024 22:43	45501	DERR_T2	1	1	0	2	0	-2	-0.2	-0.27	2	2	0	1800	1800	0
6/23/2024 22:43	64101	RERR_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
6/23/2024 22:43	49803	UNIV_T1	0	7	7	0.16	0.16	0	-0.7	-0.74	0	0	0	0	0	0
6/23/2024 22:44	20601	GRWO_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
6/23/2024 22:44	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:44	10801	CHHI_T1	51	17	-34	0.52	0.38	-0.14	-2.56	-2.64	6	6	0	4200	4200	0
6/23/2024 22:44	20603	GRWO_T2	2	4	2	0.1	0.15	0.05	-0.3	-0.31	1	1	0	900	900	0
6/23/2024 22:44	66505	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/23/2024 22:44	58401	MORO_T1	0	0	0	0	0	0	-1.96	-2	3	3	0	2100	2100	0
6/23/2024 22:44	66504	SMAN_T2	2	1	-1	1.7	0	-1.7	-0.73	-0.78	1	1	0	1200	1200	0
6/23/2024 22:45	22903	HARW_T1	9	5	-4	0.46	0.1	-0.36	0	0	0	0	0	0	0	0
6/23/2024 22:45	20603	GRWO_T2	4	2	-2	0.15	0.15	0	0	0	0	0	0	0	0	0
6/23/2024 22:45	42903	MIDD_T2	2	3	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
6/23/2024 22:45	64305	LINC_T1	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
6/23/2024 22:45	20601	GRWO_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
6/23/2024 22:45	22905	HARW_T1	44	25	-19	0.71	0.74	0.03	0	0	0	0	0	0	0	0
6/23/2024 22:45	22901	HARW_T1	8	6	-2	0.33	0	-0.33	-0.27	-0.43	1	1	0	1200	1200	0
6/23/2024 22:45	42902	MIDD_T2	0	0	0	0	0	0	-1.04	-1.06	1	1	0	600	600	0
6/23/2024 22:45	47401	PENS_T1	0	0	0	0	0	0	0.06	0	0	0	0	0	0	0
6/23/2024 22:46	63304	GREE_T1	3	132	129	0.13	0.18	0.05	-2.51	-2.54	0	0	0	0	0	0
6/23/2024 22:46	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/23/2024 22:46	63301	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/23/2024 22:46	29402	BELT_T1	1	1	0	8.5	8.5	0	0	0	0	0	0	0	0	0
6/23/2024 22:46	20402	ASHF_T2	6	6	0	1.23	1.23	0	0	0	0	0	0	0	0	0
6/23/2024 22:46	56801	BENV_T1	7	7	0	0.71	1.1	0.39	-0.81	-0.84	2	2	0	1200	1200	0
6/23/2024 22:46	63305	GREE_T1	0	3	3	0	0.25	0.25	0	0	0	0	0	0	0	0
6/23/2024 22:46	46206	DANV_T2	0	0	0	0	0	0	0.16	0.15	1	1	0	1200	1200	0
6/23/2024 22:46	20403	ASHF_T2	0	1	1	0	0.3	0.3	-0.43	0.72	0	0	0	0	0	0
6/23/2024 22:46	61701	ELIZ_T1	1	1	0	3.7	3.7	0	0	0	0	0	0	0	0	0
6/23/2024 22:46	20401	ASHF_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/23/2024 22:46	56803	BENV_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 22:46	61703	ELIZ_T1	0	0	0	0	0	0	-2.52	-2.55	2	2	0	2100	2100	0
6/23/2024 22:47	57401	SPAN_T1	6	0	-6	0.3	0	-0.3	-0.33	-0.38	1	1	0	600	600	0
6/23/2024 22:47	46203	DANV_T2	0	0	0	0	0	0	-1.62	-1.63	0	0	0	0	0	0
6/23/2024 22:47	57403	SPAN_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
6/23/2024 22:47	46302	ROHR_T1	4	2	-2	1.3	2.8	1.5	0.32	0.32	0	0	0	0	0	0
6/23/2024 22:47	45302	WBER_T2	0	0	0	0	0	0	1.44	1.44	0	0	0	0	0	0
6/23/2024 22:48	46302	ROHR_T1	4	2	-2	1.3	2.8	1.5	0.32	0.32	0	0	0	0	0	0
6/23/2024 22:48	57401	SPAN_T1	6	0	-6	0.3	0	-0.3	-0.33	-0.38	1	1	0	600	600	0
6/23/2024 22:49	61102	BERK_T5	0	0	0	0	0	0	0.04	0.02	1	1	0	300	300	0
6/23/2024 22:51	14403	SSLA_T1	0	0	0	0	0	0	-0.13	-0.01	4	4	0	2400	2400	0
6/23/2024 22:51	14404	SSLA_T1	1	1	0	3.7	4.2	0.5	0	0	0	0	0	0	0	0
6/23/2024 22:51	14402	SSLA_T1	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/23/2024 22:52	14402	SSLA_T1	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/23/2024 22:52	13201	PALM_T1	21	8	-13	0.49	0.26	-0.23	-1.27	-1.28	1	1	0	1200	1200	0
6/23/2024 22:52	14404	SSLA_T1	1	1	0	3.7	4.2	0.5	0	0	0	0	0	0	0	0
6/23/2024 22:52	14403	SSLA_T1	0	0	0	0	0	0	-0.07	-0.01	2	2	0	1200	1200	0
6/23/2024 22:53	12601	MACA_T1	0	0	0	0	0	0	1.34	1.31	0	0	0	0	0	0
6/23/2024 22:53	12606	MACA_T1	43	38	-5	1.75	1.53	-0.22	0	0	0	0	0	0	0	0
6/23/2024 22:53	12602	MACA_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/23/2024 22:55	22701	MINO_T1	0	0	0	0	0	0	-0.39	-0.42	1	1	0	600	600	0
6/23/2024 22:55	25801	SUTR_T2	0	1	1	0	0	0	0.28	0.27	0	0	0	0	0	0
6/23/2024 22:56	21203	ECAR_T1	0	1	1	0	0	0	-0.22	-0.22	0	0	0	0	0	0
6/23/2024 22:58	21206	ECAR_T2	2	7	5	4.2	7.9	3.7	0.29	0.3	0	0	0	0	0	0
6/23/2024 22:58	21204	ECAR_T2	1	2	1	0	0	0	0	0	0	0	0	0	0	0
6/23/2024 23:04	65205	PRIN_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
6/23/2024 23:28	64305	LINC_T1	0	0	0	0	0	0	-0.13	-0.19	0	0	0	0	0	0
6/23/2024 23:29	64305	LINC_T1	0	0	0	0	0	0	-0.13	-0.19	0	0	0	0	0	0
6/23/2024 23:32	57401	SPAN_T1	0	0	0	0	0	0	-0.51	-0.55	1	1	0	600	600	0
6/23/2024 23:46	67605	WARW_T1	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
6/23/2024 23:47	67605	WARW_T1	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
6/24/2024 0:11	64305	LINC_T1	0	0	0	0	0	0	-0.05	-0.26	0	0	0	0	0	0
6/24/2024 0:12	64305	LINC_T1	0	0	0	0	0	0	-0.05	-0.26	0	0	0	0	0	0
6/24/2024 1:12	67605	WARW_T1	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
6/24/2024 1:13	67605	WARW_T1	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
6/24/2024 2:45	60501	NMAN_T2	3	3	0	4.67	4.6	-0.07	0	0	0	0	0	0	0	0
6/24/2024 2:45	60502	NMAN_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
6/24/2024 6:40	62102	ELAN_T1	0	0	0	0	0	0	0.89	0.96	0	0	0	0	0	0
6/24/2024 6:40	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 6:40	62101	ELAN_T1	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
6/24/2024 6:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 6:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 6:50	40601	PIGR_T1	17	1	-16	0.12	0.1	-0.02	0.22	0.21	0	0	0	0	0	0
6/24/2024 6:55	10603	BLGL_T1	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
6/24/2024 6:56	11103	EGYP_T1	0	0	0	0	0	0	-0.66	-0.7	0	0	0	0	0	0
6/24/2024 6:56	11104	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 6:58	62101	ELAN_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
6/24/2024 6:58	62102	ELAN_T1	0	0	0	0	0	0	0.96	1.02	0	0	0	0	0	0
6/24/2024 7:00	64503	LAVI_T1	0	0	0	0	0	0	-0.78	-0.52	1	1	0	1200	1200	0
6/24/2024 7:00	11104	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 7:00	11103	EGYP_T1	0	0	0	0	0	0	-0.66	-0.7	0	0	0	0	0	0
6/24/2024 7:03	65702	RVIL_T2	0	0	0	0	0	0	-1.06	-1.03	1	1	0	600	600	0
6/24/2024 7:05	15204	SFAR_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
6/24/2024 7:07	10203	ALLE_T2	1	1	0	3.9	7.2	3.3	0	0	0	0	0	0	0	0
6/24/2024 7:07	10102	ALLE_T2	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
6/24/2024 7:12	41303	FISH_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
6/24/2024 7:12	41301	FISH_T1	1	3	2	1.2	0.4	-0.8	-0.46	-0.46	0	0	0	0	0	0
6/24/2024 7:15	54505	ENOL_T2	0	0	0	0	0	0	-1.13	-1.12	1	1	0	600	600	0
6/24/2024 7:20	14601	SWHI_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
6/24/2024 7:20	46301	ROHR_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
6/24/2024 7:20	46302	ROHR_T1	5	5	0	1.32	1.83	0.51	0	0	0	0	0	0	0	0
6/24/2024 7:22	46301	ROHR_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
6/24/2024 7:22	46302	ROHR_T1	5	5	0	1.32	1.83	0.51	0	0	0	0	0	0	0	0
6/24/2024 7:34	55001	NEWP_T1	0	0	0	0	0	0	-0.15	-0.13	0	0	0	0	0	0
6/24/2024 7:34	55002	NEWP_T1	6	6	0	1.02	1.12	0.1	0	0	0	0	0	0	0	0
6/24/2024 7:35	60305	TWVA_T2	0	0	0	0	0	0	-1.16	-1.17	2	2	0	2400	2400	0
6/24/2024 7:37	20403	ASHF_T2	0	0	0	0	0	0	0.41	0.71	0	0	0	0	0	0
6/24/2024 7:37	20401	ASHF_T2	1	3	2	0.4	0.45	0.05	0	0	0	0	0	0	0	0
6/24/2024 7:38	44301	BEAV_T2	1	1	0	1	0	-1	0.3	0.42	2	2	0	1500	1500	0
6/24/2024 7:39	44301	BEAV_T2	1	1	0	1	0	-1	0.3	0.42	2	2	0	1500	1500	0
6/24/2024 7:40	62607	ENGL_T1	0	0	0	0	0	0	-0.55	-0.56	1	1	0	300	300	0
6/24/2024 7:40	56802	BENV_T2	0	1	1	0	0.1	0.1	-1.07	-1.05	0	0	0	0	0	0
6/24/2024 7:41	63305	GREE_T1	0	0	0	0	0	0	-1.54	-1.62	1	1	0	900	900	0
6/24/2024 7:42	11102	EGYP_T1	0	0	0	0	0	0	-0.05	0.06	0	0	0	0	0	0
6/24/2024 7:43	46206	DANV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 7:43	46203	DANV_T2	0	0	0	0	0	0	-1.74	-1.74	0	0	0	0	0	0
6/24/2024 7:44	11102	EGYP_T1	0	0	0	0	0	0	-0.05	0.06	0	0	0	0	0	0
6/24/2024 7:45	56802	BENV_T2	1	1	0	0.1	0.9	0.8	-1.07	-1.05	0	0	0	0	0	0
6/24/2024 7:45	46203	DANV_T2	0	0	0	0	0	0	-1.74	-1.74	0	0	0	0	0	0
6/24/2024 7:45	46206	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/24/2024 7:46	63303	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 7:46	63306	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 7:48	58402	MORO_T1	0	0	0	0	0	0	-0.75	-0.73	3	3	0	2400	2400	0
6/24/2024 7:49	40601	PIGR_T1	66	55	-11	0.19	0.2	0.01	0.25	0.28	0	0	0	0	0	0
6/24/2024 7:52	67605	WARW_T1	0	0	0	0	0	0	-0.8	-0.77	0	0	0	0	0	0
6/24/2024 7:54	20401	ASHF_T2	3	1	-2	0.4	0.1	-0.3	0.1	0.1	0	0	0	0	0	0
6/24/2024 7:57	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 7:57	40802	EXCH_T2	1	1	0	0.1	0.2	0.1	-0.56	-0.56	0	0	0	0	0	0
6/24/2024 7:58	40802	EXCH_T2	1	1	0	0.1	0.2	0.1	-1.11	-1.11	0	0	0	0	0	0
6/24/2024 7:58	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 7:59	40802	EXCH_T2	1	1	0	0.1	0.2	0.1	-0.56	-0.56	0	0	0	0	0	0
6/24/2024 7:59	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 8:01	62102	ELAN_T1	0	0	0	0	0	0	1.15	1.13	0	0	0	0	0	0
6/24/2024 8:06	43304	WATS_T2	0	0	0	0	0	0	0.32	0.19	1	1	0	600	600	0
6/24/2024 8:08	15702	TANN_T2	0	0	0	0	0	0	-0.23	-0.19	0	0	0	0	0	0
6/24/2024 8:08	15703	TANN_T2	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
6/24/2024 8:08	20403	ASHF_T2	0	0	0	0	0	0	0.76	0.78	0	0	0	0	0	0
6/24/2024 8:08	20401	ASHF_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 8:09	61802	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 8:09	61801	EELI_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
6/24/2024 8:12	44301	BEAV_T2	1	1	0	0.5	1	0.5	0.61	0.75	2	2	0	1500	1500	0
6/24/2024 8:13	56601	HAMP_T1	0	0	0	0	0	0	-1.33	-1.3	0	0	0	0	0	0
6/24/2024 8:19	64101	REFR_T1	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
6/24/2024 8:20	64101	REFR_T1	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
6/24/2024 8:21	64101	REFR_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
6/24/2024 8:21	40601	PIGR_T1	24	20	-4	0.16	0.15	-0.01	0.29	0.3	0	0	0	0	0	0
6/24/2024 8:22	64101	REFR_T1	0	0	0	0	0	0	0.47	0.5	0	0	0	0	0	0
6/24/2024 8:23	45602	WOOL_T1	1	0	-1	0.2	0	-0.2	2.85	2.84	0	0	0	0	0	0
6/24/2024 8:23	64101	REFR_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
6/24/2024 8:24	45602	WOOL_T1	1	0	-1	0.2	0	-0.2	0.95	0.95	0	0	0	0	0	0
6/24/2024 8:26	20401	ASHF_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/24/2024 8:26	20403	ASHF_T2	0	0	0	0	0	0	0.78	0.79	0	0	0	0	0	0
6/24/2024 8:42	63401	HONY_T1	0	0	0	0	0	0	0.71	0.63	1	1	0	600	600	0
6/24/2024 8:43	63401	HONY_T1	0	0	0	0	0	0	0.71	0.63	1	1	0	600	600	0
6/24/2024 8:44	63401	HONY_T1	0	0	0	0	0	0	0.71	0.63	1	1	0	600	600	0
6/24/2024 8:45	23202	HIRU_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
6/24/2024 8:45	23201	HIRU_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 8:49	48302	ORWI_T2	2	2	0	0.7	0.7	0	-0.25	-0.26	0	0	0	0	0	0
6/24/2024 8:50	67605	WARW_T1	1	1	0	0.1	0.2	0.1	-0.72	-0.69	0	0	0	0	0	0
6/24/2024 8:50	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/24/2024 8:51	66504	SMAN_T2	0	0	0	0	0	0	-0.61	-0.78	1	1	0	1200	1200	0
6/24/2024 8:51	43201	MVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 8:51	43202	MVIL_T2	83	97	14	0.61	1.3	0.69	-0.47	-0.47	0	0	0	0	0	0
6/24/2024 8:52	56501	ROCK_T2	1	1	0	0.1	0	-0.1	-0.88	-0.86	0	0	0	0	0	0
6/24/2024 8:52	17002	RIRO_T2	1	8	7	0.3	0.16	-0.14	0.94	0.95	0	0	0	0	0	0
6/24/2024 8:53	67605	WARW_T1	1	1	0	0.1	0.2	0.1	-0.69	-0.71	0	0	0	0	0	0
6/24/2024 8:53	56501	ROCK_T2	1	1	0	0.1	0	-0.1	-0.88	-0.86	0	0	0	0	0	0
6/24/2024 8:54	66504	SMAN_T2	0	0	0	0	0	0	-1.22	-1.57	2	2	0	2400	2400	0
6/24/2024 8:55	67605	WARW_T1	1	1	0	0.1	0.2	0.1	-0.69	-0.71	0	0	0	0	0	0
6/24/2024 8:56	24103	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 8:56	24105	EHAZ_T1	4	4	0	5.75	5.33	-0.42	0	0	0	0	0	0	0	0
6/24/2024 8:56	24101	EHAZ_T1	13	13	0	0.68	0.21	-0.47	0	0	0	0	0	0	0	0
6/24/2024 8:56	24104	EHAZ_T1	0	2	2	0	0.1	0.1	-2.11	-2.11	1	1	0	1200	1200	0
6/24/2024 8:56	24102	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 8:58	52401	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
6/24/2024 8:58	52403	GRPA_T2	1	2	1	0.3	0	-0.3	-0.15	0.44	0	0	0	0	0	0
6/24/2024 8:58	52402	GRPA_T2	6	4	-2	0.37	0.38	0.01	0	0	0	0	0	0	0	0
6/24/2024 9:04	43201	MVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 9:04	43202	MVIL_T2	95	101	6	1.06	1.26	0.2	-0.47	-0.47	0	0	0	0	0	0
6/24/2024 9:04	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 9:06	13905	SEID_T1	0	0	0	0	0	0	-0.63	-0.61	1	1	0	1200	1200	0
6/24/2024 9:11	16301	ALPA_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
6/24/2024 9:18	48302	ORWI_T2	2	2	0	0.7	0.7	0	-0.27	-0.26	0	0	0	0	0	0
6/24/2024 9:21	67203	TEHI_T1	5	41	36	0.44	0.62	0.18	2.25	2.34	3	3	0	2100	2100	0
6/24/2024 9:23	50701	SMEC_T1	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
6/24/2024 9:24	45501	DERR_T2	0	0	0	0	0	0	0.86	0.8	2	2	0	1800	1800	0
6/24/2024 9:24	45502	DERR_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/24/2024 9:25	15203	SFAR_T2	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
6/24/2024 9:26	56802	BENV_T2	1	1	0	1.2	1	-0.2	-1.9	-1.87	0	0	0	0	0	0
6/24/2024 9:28	56802	BENV_T2	1	1	0	1.2	1	-0.2	-0.95	-0.93	0	0	0	0	0	0
6/24/2024 9:29	56802	BENV_T2	1	1	0	1.2	1	-0.2	-0.95	-0.93	0	0	0	0	0	0
6/24/2024 9:31	11507	FREE_T2	0	0	0	0	0	0	0.88	0.92	0	0	0	0	0	0
6/24/2024 9:37	67605	WARW_T1	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
6/24/2024 9:37	67603	WARW_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
6/24/2024 9:41	46203	DANV_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
6/24/2024 9:42	46203	DANV_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
6/24/2024 9:43	46203	DANV_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
6/24/2024 9:44	45502	DERR_T2	1	0	-1	0.8	0	-0.8	0.34	0.35	0	0	0	0	0	0
6/24/2024 9:46	46203	DANV_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
6/24/2024 9:46	43202	MVIL_T2	105	100	-5	1.2	1.2	0	-0.47	-0.47	0	0	0	0	0	0
6/24/2024 9:47	40101	HUNT_T2	25	3	-22	0.46	0.23	-0.23	0.05	-0.2	0	0	0	0	0	0
6/24/2024 9:48	55002	NEWP_T1	7	6	-1	0.87	0.88	0.01	-0.09	-0.09	0	0	0	0	0	0
6/24/2024 9:49	13503	MCMI_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/24/2024 9:50	55002	NEWP_T1	7	6	-1	0.87	0.88	0.01	-0.09	-0.09	0	0	0	0	0	0
6/24/2024 9:50	43301	WATS_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/24/2024 9:50	56501	ROCK_T2	1	3	2	0.6	0.15	-0.45	-0.82	-0.8	0	0	0	0	0	0
6/24/2024 9:50	43304	WATS_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
6/24/2024 9:51	43202	MVIL_T2	105	100	-5	1.2	1.2	0	-0.47	-0.47	0	0	0	0	0	0
6/24/2024 9:52	67203	TEHI_T1	39	38	-1	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
6/24/2024 9:52	67201	TEHI_T1	0	0	0	0	0	0	-0.07	-0.21	2	2	0	1500	1500	0
6/24/2024 9:52	59101	WALK_T2	35	35	0	3.53	4.74	1.21	0	0	1	1	0	600	600	0
6/24/2024 9:53	56501	ROCK_T2	1	3	2	0.6	0.15	-0.45	-0.8	-0.78	0	0	0	0	0	0
6/24/2024 9:53	56802	BENV_T2	1	1	0	1	0.7	-0.3	-0.92	-0.9	0	0	0	0	0	0
6/24/2024 9:56	56802	BENV_T2	1	1	0	1	0.7	-0.3	-0.92	-0.9	0	0	0	0	0	0
6/24/2024 9:58	56501	ROCK_T2	1	3	2	0.6	0.15	-0.45	-0.8	-0.78	0	0	0	0	0	0
6/24/2024 10:00	64204	KINZ_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
6/24/2024 10:00	67502	WEWI_T2	0	1	1	0	0.1	0.1	-0.6	-0.54	1	1	0	900	900	0
6/24/2024 10:00	56802	BENV_T2	1	1	0	0.7	0.7	0	-0.92	-0.9	0	0	0	0	0	0
6/24/2024 10:00	55002	NEWP_T1	6	3	-3	0.82	1.3	0.48	-0.18	-0.17	0	0	0	0	0	0
6/24/2024 10:00	60501	NMAN_T2	3	3	0	4.07	4.53	0.46	0	0	0	0	0	0	0	0
6/24/2024 10:00	64503	LAVI_T1	0	0	0	0	0	0	-0.68	-0.43	1	1	0	1200	1200	0
6/24/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
6/24/2024 10:00	55001	NEWP_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
6/24/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	0.95	0.96	0	0	0	0	0	0
6/24/2024 10:00	17002	RIRO_T2	0	1	1	0	0.1	0.1	1.01	1.05	0	0	0	0	0	0
6/24/2024 10:00	48302	ORWI_T2	2	2	0	0.6	0.65	0.05	-0.46	-0.42	0	0	0	0	0	0
6/24/2024 10:00	64201	KINZ_T1	0	0	0	0	0	0	0.47	0.36	3	3	0	1200	1200	0
6/24/2024 10:00	13905	SEID_T1	0	0	0	0	0	0	-0.58	-0.52	1	1	0	1200	1200	0
6/24/2024 10:00	64203	KINZ_T1	0	1	1	0	0.1	0.1	-0.21	0.18	3	3	0	2100	2100	0
6/24/2024 10:00	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 10:00	40505	CRES_T1	3	3	0	2.43	3	0.57	0.61	0.62	0	0	0	0	0	0
6/24/2024 10:02	63401	HONY_T1	0	0	0	0	0	0	0.04	0.4	1	1	0	600	600	0
6/24/2024 10:03	65004	NEFF_T2	0	0	0	0	0	0	-0.67	-0.66	1	1	0	600	600	0
6/24/2024 10:04	52502	PROG_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/24/2024 10:04	52503	PROG_T2	0	0	0	0	0	0	-0.21	-0.1	1	1	0	900	900	0
6/24/2024 10:05	52502	PROG_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/24/2024 10:05	52503	PROG_T2	0	0	0	0	0	0	-0.21	-0.1	1	1	0	900	900	0
6/24/2024 10:06	52502	PROG_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/24/2024 10:06	60502	NMAN_T2	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
6/24/2024 10:06	60501	NMAN_T2	3	3	0	4.07	4.53	0.46	0	0	0	0	0	0	0	0
6/24/2024 10:06	64101	REFR_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
6/24/2024 10:06	52503	PROG_T2	0	0	0	0	0	0	-0.63	-0.3	3	3	0	2700	2700	0
6/24/2024 10:07	64101	REFR_T1	0	0	0	0	0	0	0.96	0.98	0	0	0	0	0	0
6/24/2024 10:07	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 10:07	67503	WEWI_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
6/24/2024 10:08	29401	BELT_T1	1	9	8	0.1	0.11	0.01	0	0	1	1	0	900	900	0
6/24/2024 10:08	52502	PROG_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/24/2024 10:08	52503	PROG_T2	0	0	0	0	0	0	-0.2	-0.2	2	2	0	1800	1800	0
6/24/2024 10:08	58001	WCAR_T1	4	5	1	0.38	0.68	0.3	0	0	0	0	0	0	0	0
6/24/2024 10:08	29402	BELT_T1	1	20	19	8.8	0.67	-8.13	0	0	0	0	0	0	0	0
6/24/2024 10:08	58003	WCAR_T1	3	3	0	0.57	0.6	0.03	0.54	0.54	1	1	0	600	600	0
6/24/2024 10:09	16101	BING_T2	2	2	0	1.05	0	-1.05	0	0	0	0	0	0	0	0
6/24/2024 10:09	16102	BING_T2	0	0	0	0	0	0	-0.19	-0.22	1	1	0	1200	1200	0
6/24/2024 10:09	20403	ASHF_T2	0	1	1	0	0.8	0.8	0.71	0.47	0	0	0	0	0	0
6/24/2024 10:09	29402	BELT_T1	1	20	19	8.8	0.67	-8.13	0	0	0	0	0	0	0	0
6/24/2024 10:09	29401	BELT_T1	1	9	8	0.1	0.11	0.01	0	0	1	1	0	900	900	0
6/24/2024 10:09	20401	ASHF_T2	2	4	2	0.15	0.55	0.4	0	0	0	0	0	0	0	0
6/24/2024 10:10	29401	BELT_T1	1	9	8	0.1	0.11	0.01	0	0	1	1	0	900	900	0
6/24/2024 10:10	44301	BEAV_T2	0	4	4	0	0.2	0.2	0.81	0.58	2	2	0	1500	1500	0
6/24/2024 10:10	21206	ECAR_T2	1	1	0	7.6	8.2	0.6	0.44	0.49	0	0	0	0	0	0
6/24/2024 10:10	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 10:10	29402	BELT_T1	1	20	19	8.8	0.67	-8.13	0	0	0	0	0	0	0	0
6/24/2024 10:11	20401	ASHF_T2	2	4	2	0.15	0.55	0.4	0	0	0	0	0	0	0	0
6/24/2024 10:11	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 10:11	20403	ASHF_T2	0	1	1	0	0.8	0.8	0.71	0.47	0	0	0	0	0	0
6/24/2024 10:11	21206	ECAR_T2	1	1	0	7.6	8.2	0.6	0.44	0.49	0	0	0	0	0	0
6/24/2024 10:13	46203	DANV_T2	0	0	0	0	0	0	-0.33	-0.28	0	0	0	0	0	0
6/24/2024 10:13	40802	EXCH_T2	1	1	0	0.7	0.5	-0.2	-0.49	-0.29	0	0	0	0	0	0
6/24/2024 10:15	40802	EXCH_T2	1	1	0	0.2	0.5	0.3	-0.99	-0.58	0	0	0	0	0	0
6/24/2024 10:15	46203	DANV_T2	0	0	0	0	0	0	-0.66	-0.56	0	0	0	0	0	0
6/24/2024 10:15	40801	EXCH_T2	0	0	0	0	0	0	-0.11	-0.09	1	1	0	1200	1200	0
6/24/2024 10:16	41304	FISH_T2	1	1	0	0	0	0	-0.35	-0.3	0	0	0	0	0	0
6/24/2024 10:16	41302	FISH_T2	12	10	-2	0.68	0.49	-0.19	0	0	0	0	0	0	0	0
6/24/2024 10:16	40802	EXCH_T2	1	1	0	0.2	0.5	0.3	-0.49	-0.29	0	0	0	0	0	0
6/24/2024 10:16	46203	DANV_T2	0	0	0	0	0	0	-0.33	-0.28	0	0	0	0	0	0
6/24/2024 10:17	41301	FISH_T1	3	3	0	0.8	0.97	0.17	-0.36	-0.39	0	0	0	0	0	0
6/24/2024 10:17	41303	FISH_T1	1	1	0	1.4	1.7	0.3	0	0	0	0	0	0	0	0
6/24/2024 10:18	41304	FISH_T2	1	1	0	0	0	0	-0.35	-0.3	0	0	0	0	0	0
6/24/2024 10:18	46602	LACR_T1	1	0	-1	0.2	0	-0.2	0.48	0.47	0	0	0	0	0	0
6/24/2024 10:18	41302	FISH_T2	12	10	-2	0.68	0.49	-0.19	0	0	0	0	0	0	0	0
6/24/2024 10:18	64101	REFR_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
6/24/2024 10:19	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 10:19	56501	ROCK_T2	2	2	0	0.15	0.3	0.15	-0.78	-0.76	0	0	0	0	0	0
6/24/2024 10:20	13103	NHAM_T2	0	0	0	0	0	0	-1.25	-1.3	1	1	0	600	600	0
6/24/2024 10:20	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 10:20	40603	PIGR_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
6/24/2024 10:20	40601	PIGR_T1	2	3	1	0.2	0.23	0.03	0.42	0.48	0	0	0	0	0	0
6/24/2024 10:21	64101	REFR_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
6/24/2024 10:21	65603	QVIL_T2	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
6/24/2024 10:22	56501	ROCK_T2	2	2	0	0.15	0.3	0.15	-0.76	-0.74	0	0	0	0	0	0
6/24/2024 10:22	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 10:22	44301	BEAV_T2	4	2	-2	0.7	0.2	-0.5	0.58	0.41	2	2	0	1500	1500	0
6/24/2024 10:24	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 10:24	44301	BEAV_T2	4	2	-2	0.7	0.2	-0.5	1.17	0.83	4	4	0	3000	3000	0
6/24/2024 10:24	56501	ROCK_T2	2	2	0	0.15	0.3	0.15	-0.76	-0.74	0	0	0	0	0	0
6/24/2024 10:25	67203	TEHI_T1	32	32	0	0.54	0.68	0.14	2.39	2.29	3	3	0	2100	2100	0
6/24/2024 10:26	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 10:26	45501	DERR_T2	0	0	0	0	0	0	0.89	0.88	2	2	0	1800	1800	0
6/24/2024 10:27	53502	EVIL_T2	1	2	1	1.3	1.3	0	0	0	0	0	0	0	0	0
6/24/2024 10:27	53501	EVIL_T2	0	0	0	0	0	0	0.08	0.14	1	1	0	600	600	0
6/24/2024 10:27	54504	ENOL_T2	0	0	0	0	0	0	-0.76	-0.75	1	1	0	600	600	0
6/24/2024 10:27	44301	BEAV_T2	4	2	-2	0.7	0.2	-0.5	0.58	0.41	2	2	0	1500	1500	0
6/24/2024 10:28	10805	CHHI_T2	13	18	5	1.11	0.97	-0.14	-0.24	-0.03	1	1	0	600	600	0
6/24/2024 10:28	44301	BEAV_T2	4	2	-2	0.7	0.2	-0.5	0.58	0.41	2	2	0	1500	1500	0
6/24/2024 10:29	52403	GRPA_T2	3	4	1	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
6/24/2024 10:29	24105	EHAZ_T1	4	4	0	5.73	5.55	-0.18	0	0	0	0	0	0	0	0
6/24/2024 10:29	24102	EHAZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 10:29	24101	EHAZ_T1	2	18	16	0.15	0.4	0.25	0	0	0	0	0	0	0	0
6/24/2024 10:29	52402	GRPA_T2	2	2	0	0.25	0.4	0.15	-1.29	-1.28	0	0	0	0	0	0
6/24/2024 10:29	24103	EHAZ_T1	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
6/24/2024 10:30	46503	LOHA_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
6/24/2024 10:30	46506	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/24/2024 10:31	28403	HART_T2	0	0	0	0	0	0	-0.77	-0.77	1	1	0	900	900	0
6/24/2024 10:33	43301	WATS_T2	1	1	0	0.2	0.2	0	-0.4	-0.4	1	1	0	900	900	0
6/24/2024 10:33	46503	LOHA_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
6/24/2024 10:33	46506	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/24/2024 10:33	65604	QVIL_T2	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
6/24/2024 10:33	13302	ORVI_T2	114	259	145	0.18	0.19	0.01	0.98	1.06	0	0	0	0	0	0
6/24/2024 10:34	50501	MECH_T1	4	4	0	1.4	1.4	0	-1.49	-1.81	0	0	0	0	0	0
6/24/2024 10:34	50506	MECH_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
6/24/2024 10:34	65604	QVIL_T2	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
6/24/2024 10:34	50502	MECH_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
6/24/2024 10:35	66901	SHIL_T2	0	0	0	0	0	0	0.45	0.49	0	0	0	0	0	0
6/24/2024 10:35	66902	SHIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/24/2024 10:36	56504	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 10:36	56501	ROCK_T2	2	1	-1	0.3	0.8	0.5	-0.76	-0.74	0	0	0	0	0	0
6/24/2024 10:37	56501	ROCK_T2	2	1	-1	0.3	0.8	0.5	-0.74	-0.72	0	0	0	0	0	0
6/24/2024 10:37	56504	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 10:38	60904	DONG_T2	1	2	1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
6/24/2024 10:38	43301	WATS_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/24/2024 10:38	60902	DONG_T2	0	0	0	0	0	0	1.26	1.29	0	0	0	0	0	0
6/24/2024 10:38	43304	WATS_T2	0	0	0	0	0	0	-0.57	-0.38	0	0	0	0	0	0
6/24/2024 10:38	60901	DONG_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/24/2024 10:38	56802	BENV_T2	1	1	0	0.3	0.5	0.2	-0.87	-0.85	0	0	0	0	0	0
6/24/2024 10:39	58001	WCAR_T1	5	4	-1	0.5	0.85	0.35	0	0	0	0	0	0	0	0
6/24/2024 10:39	55101	WERT_T1	0	0	0	0	0	0	-1.41	-1.57	4	4	0	3300	3300	0
6/24/2024 10:39	56802	BENV_T2	1	1	0	0.3	0.5	0.2	-0.87	-0.85	0	0	0	0	0	0
6/24/2024 10:39	58003	WCAR_T1	3	3	0	0.6	0.77	0.17	0.55	0.55	1	1	0	600	600	0
6/24/2024 10:39	43301	WATS_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/24/2024 10:39	59101	WALK_T2	35	35	0	5.41	5.82	0.41	0	0	1	1	0	600	600	0
6/24/2024 10:39	43304	WATS_T2	0	0	0	0	0	0	-0.57	-0.38	0	0	0	0	0	0
6/24/2024 10:40	55101	WERT_T1	0	0	0	0	0	0	-1.41	-1.57	4	4	0	3300	3300	0
6/24/2024 10:40	56801	BENV_T1	5	5	0	0.52	0.58	0.06	0	0	0	0	0	0	0	0
6/24/2024 10:40	56803	BENV_T1	0	2	2	0	1.4	1.4	0.66	0.69	0	0	0	0	0	0
6/24/2024 10:40	56802	BENV_T2	1	1	0	0.3	0.5	0.2	-0.87	-0.85	0	0	0	0	0	0
6/24/2024 10:41	45502	DERR_T2	0	1	1	0	0	0	0.4	0.31	0	0	0	0	0	0
6/24/2024 10:41	55101	WERT_T1	0	0	0	0	0	0	-2.83	-3.15	8	8	0	6600	6600	0
6/24/2024 10:41	45501	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 10:41	16403	MOPO_T2	0	0	0	0	0	0	0.37	0.43	0	0	0	0	0	0
6/24/2024 10:41	46203	DANV_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
6/24/2024 10:42	56802	BENV_T2	1	1	0	0.3	0.5	0.2	-0.87	-0.85	0	0	0	0	0	0
6/24/2024 10:43	52402	GRPA_T2	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
6/24/2024 10:43	52403	GRPA_T2	3	4	1	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
6/24/2024 10:43	61803	EELI_T2	1	0	-1	0.2	0	-0.2	0.69	0.74	1	1	0	600	600	0
6/24/2024 10:43	52404	GRPA_T2	0	0	0	0	0	0	0.74	0.87	0	0	0	0	0	0
6/24/2024 10:44	52402	GRPA_T2	2	2	0	0.2	0.35	0.15	-0.64	-0.64	0	0	0	0	0	0
6/24/2024 10:44	52404	GRPA_T2	0	0	0	0	0	0	0.74	0.87	0	0	0	0	0	0
6/24/2024 10:44	52403	GRPA_T2	3	4	1	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
6/24/2024 10:45	64404	LAND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/24/2024 10:45	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 10:45	64402	LAND_T2	0	0	0	0	0	0	-0.05	-0.05	1	1	0	600	600	0
6/24/2024 10:45	52402	GRPA_T2	2	3	1	0.35	0.37	0.02	-0.64	-0.64	0	0	0	0	0	0
6/24/2024 10:45	46203	DANV_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
6/24/2024 10:45	52403	GRPA_T2	4	4	0	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
6/24/2024 10:46	52004	LING_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/24/2024 10:46	63303	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/24/2024 10:46	63304	GREE_T1	0	0	0	0	0	0	-1.04	-1.12	0	0	0	0	0	0
6/24/2024 10:46	52002	LING_T2	0	0	0	0	0	0	1.14	1.19	0	0	0	0	0	0
6/24/2024 10:48	13303	ORVI_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
6/24/2024 10:49	52004	LING_T2	1	0	-1	0.5	0	-0.5	0.7	0.71	0	0	0	0	0	0
6/24/2024 10:49	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/24/2024 10:49	64101	REFR_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
6/24/2024 10:49	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 10:49	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/24/2024 10:49	66504	SMAN_T2	0	0	0	0	0	0	-1.47	-1.52	2	2	0	2400	2400	0
6/24/2024 10:51	67603	WARW_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
6/24/2024 10:51	61801	EELI_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
6/24/2024 10:51	67502	WEWI_T2	1	1	0	0.2	1	0.8	-0.43	-0.61	1	1	0	900	900	0
6/24/2024 10:51	67605	WARW_T1	1	2	1	1.1	0.75	-0.35	-0.7	-0.69	0	0	0	0	0	0
6/24/2024 10:51	64101	REFR_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
6/24/2024 10:52	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 10:52	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/24/2024 10:52	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/24/2024 10:52	66504	SMAN_T2	0	0	0	0	0	0	-0.76	-0.78	1	1	0	1200	1200	0
6/24/2024 10:53	67401	WAKE_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
6/24/2024 10:53	67502	WEWI_T2	1	1	0	0.2	1	0.8	-0.43	-0.61	1	1	0	900	900	0
6/24/2024 10:53	67605	WARW_T1	1	2	1	1.1	0.75	-0.35	-0.7	-0.69	0	0	0	0	0	0
6/24/2024 10:53	67605	WARW_T1	1	2	1	1.1	0.75	-0.35	-0.7	-0.69	0	0	0	0	0	0
6/24/2024 10:53	67605	WARW_T1	1	2	1	1.1	0.75	-0.35	-0.7	-0.69	0	0	0	0	0	0
6/24/2024 10:53	67605	WARW_T1	1	2	1	1.1	0.75	-0.35	-0.7	-0.69	0	0	0	0	0	0
6/24/2024 10:54	67605	WARW_T1	1	2	1	1.1	0.75	-0.35	-0.7	-0.69	0	0	0	0	0	0
6/24/2024 10:54	10801	CHHI_T1	2	2	0	0.4	0.4	0	-0.66	-0.67	2	2	0	1500	1500	0
6/24/2024 10:54	67502	WEWI_T2	1	1	0	0.2	1	0.8	-0.43	-0.61	1	1	0	900	900	0
6/24/2024 10:55	67605	WARW_T1	1	2	1	1.1	0.75	-0.35	-1.4	-1.38	0	0	0	0	0	0
6/24/2024 10:55	67502	WEWI_T2	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
6/24/2024 10:55	67503	WEWI_T2	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
6/24/2024 10:55	62607	ENGL_T1	0	0	0	0	0	0	-0.46	-0.45	1	1	0	300	300	0
6/24/2024 10:56	67603	WARW_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
6/24/2024 10:56	67605	WARW_T1	1	2	1	1.1	0.75	-0.35	0	0	0	0	0	0	0	0
6/24/2024 10:56	16302	ALPA_T2	0	0	0	0	0	0	1.31	1.31	0	0	0	0	0	0
6/24/2024 10:57	61101	BERK_T5	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
6/24/2024 10:58	45501	DERR_T2	0	1	1	0	0	0	0.94	0.96	2	2	0	1800	1800	0
6/24/2024 10:58	45502	DERR_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 10:59	46803	HEPB_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
6/24/2024 10:59	10801	CHHI_T1	2	2	0	0.4	0.4	0	-0.66	-0.67	2	2	0	1500	1500	0
6/24/2024 10:59	62904	HARW_T1	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
6/24/2024 10:59	46801	HEPB_T2	1	2	1	0.1	0.15	0.05	0.98	0.99	0	0	0	0	0	0
6/24/2024 11:00	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 11:00	52404	GRPA_T2	0	0	0	0	0	0	0.87	0.79	0	0	0	0	0	0
6/24/2024 11:00	61101	BERK_T5	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
6/24/2024 11:00	46506	LOHA_T1	1	0	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/24/2024 11:00	46502	LOHA_T1	0	0	0	0	0	0	0.22	0.19	1	1	0	1200	1200	0
6/24/2024 11:00	52402	GRPA_T2	1	3	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/24/2024 11:00	52403	GRPA_T2	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/24/2024 11:01	64201	KINZ_T1	73	35	-38	0.23	0.29	0.06	0	0	0	0	0	0	0	0
6/24/2024 11:01	59302	MCAL_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 11:01	63305	GREE_T1	0	0	0	0	0	0	-1.62	-1.62	1	1	0	900	900	0
6/24/2024 11:01	59301	MCAL_T1	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
6/24/2024 11:01	64203	KINZ_T1	2	1	-1	0.7	0.7	0	0.51	0.45	3	3	0	2100	2100	0
6/24/2024 11:01	63303	GREE_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/24/2024 11:01	64204	KINZ_T1	1	1	0	0.5	1.2	0.7	0	0	0	0	0	0	0	0
6/24/2024 11:02	46801	HEPB_T2	2	2	0	0.15	0.55	0.4	0.98	0.99	0	0	0	0	0	0
6/24/2024 11:02	46803	HEPB_T2	0	1	1	0	0.6	0.6	0.49	0.43	0	0	0	0	0	0
6/24/2024 11:03	40603	PIGR_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
6/24/2024 11:03	40601	PIGR_T1	4	3	-1	0.23	0.2	-0.03	0.37	0.38	0	0	0	0	0	0
6/24/2024 11:04	40603	PIGR_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
6/24/2024 11:04	43301	WATS_T2	0	1	1	0	0.1	0.1	-0.4	-0.41	1	1	0	900	900	0
6/24/2024 11:04	40601	PIGR_T1	4	3	-1	0.23	0.2	-0.03	0.37	0.38	0	0	0	0	0	0
6/24/2024 11:06	67605	WARW_T1	2	3	1	0.7	0.7	0	-0.69	-0.68	0	0	0	0	0	0
6/24/2024 11:06	67601	WARW_T2	0	0	0	0	0	0	0.1	0.04	0	0	0	0	0	0
6/24/2024 11:07	46301	ROHR_T1	6	283	277	0.48	0.63	0.15	0	0	0	0	0	0	0	0
6/24/2024 11:07	46302	ROHR_T1	4	85	81	1.88	0.3	-1.58	0.29	0.29	0	0	0	0	0	0
6/24/2024 11:07	67605	WARW_T1	2	3	1	0.7	0.7	0	-0.69	-0.68	0	0	0	0	0	0
6/24/2024 11:07	13606	RICH_T2	1	1	0	7.3	7.3	0	0.47	0.61	0	0	0	0	0	0
6/24/2024 11:08	46301	ROHR_T1	6	283	277	0.48	0.63	0.15	0	0	0	0	0	0	0	0
6/24/2024 11:08	46302	ROHR_T1	4	85	81	1.88	0.3	-1.58	0.29	0.29	0	0	0	0	0	0
6/24/2024 11:10	44301	BEAV_T2	1	1	0	1.5	1.4	-0.1	0.88	0.74	2	2	0	1500	1500	0
6/24/2024 11:10	67605	WARW_T1	2	3	1	0.7	0.7	0	-1.38	-1.37	0	0	0	0	0	0
6/24/2024 11:11	60803	BUCK_T1	8	8	0	0.2	0.26	0.06	0	0	0	0	0	0	0	0
6/24/2024 11:11	60801	BUCK_T1	11	2	-9	2.11	0.2	-1.91	-0.48	-0.42	1	1	0	600	600	0
6/24/2024 11:13	53901	HALI_T2	0	0	0	0	0	0	-1.09	-1.08	0	0	0	0	0	0
6/24/2024 11:13	45502	DERR_T2	0	1	1	0	0	0	0.34	0.35	0	0	0	0	0	0
6/24/2024 11:13	53902	HALI_T2	2	2	0	2.4	2.65	0.25	0	0	0	0	0	0	0	0
6/24/2024 11:13	61102	BERK_T5	0	0	0	0	0	0	0.82	0.02	1	2	1	300	1200	900
6/24/2024 11:13	53903	HALI_T2	6	5	-1	0.62	1.02	0.4	0.07	0.08	0	0	0	0	0	0
6/24/2024 11:13	45501	DERR_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 11:13	63501	HEID_TBK1-2	0	0	0	0	0	0	0.73	0.72	1	1	0	900	900	0
6/24/2024 11:14	61102	BERK_T5	0	0	0	0	0	0	0.82	0.02	1	2	1	300	1200	900
6/24/2024 11:15	53903	HALI_T2	5	5	0	1.02	0.58	-0.44	0.07	0.08	0	0	0	0	0	0
6/24/2024 11:15	24101	EHAZ_T1	8	20	12	0.85	0.37	-0.48	0	0	0	0	0	0	0	0
6/24/2024 11:15	24102	EHAZ_T1	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
6/24/2024 11:15	52001	LING_T1	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
6/24/2024 11:15	53902	HALI_T2	1	3	2	4.9	2	-2.9	0	0	0	0	0	0	0	0
6/24/2024 11:15	24105	EHAZ_T1	4	4	0	6.3	6.13	-0.17	0	0	0	0	0	0	0	0
6/24/2024 11:15	24103	EHAZ_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
6/24/2024 11:16	53902	HALI_T2	1	3	2	4.9	2	-2.9	0	0	0	0	0	0	0	0
6/24/2024 11:16	63804	HEMP_T1	1	1	0	7.5	7.4	-0.1	0.14	0.04	0	0	0	0	0	0
6/24/2024 11:16	63803	HEMP_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/24/2024 11:16	53903	HALI_T2	5	5	0	1.02	0.58	-0.44	0.07	0.08	0	0	0	0	0	0
6/24/2024 11:17	53903	HALI_T2	5	5	0	1.02	0.58	-0.44	0.14	0.16	0	0	0	0	0	0
6/24/2024 11:17	43301	WATS_T2	0	1	1	0	0.1	0.1	-0.41	-0.41	1	1	0	900	900	0
6/24/2024 11:17	12601	MACA_T1	0	0	0	0	0	0	1.22	1.22	0	0	0	0	0	0
6/24/2024 11:17	53902	HALI_T2	1	3	2	4.9	2	-2.9	0	0	0	0	0	0	0	0
6/24/2024 11:19	65003	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/24/2024 11:19	52002	LING_T2	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
6/24/2024 11:19	65001	NEFF_T2	0	0	0	0	0	0	0.29	0.32	1	1	0	1200	1200	0
6/24/2024 11:19	52004	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/24/2024 11:20	52502	PROG_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/24/2024 11:20	65501	MOJO_T1	0	0	0	0	0	0	-0.51	-0.49	1	1	0	900	900	0
6/24/2024 11:20	52503	PROG_T2	0	0	0	0	0	0	-0.13	-0.14	1	1	0	900	900	0
6/24/2024 11:21	42102	FRAI_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/24/2024 11:21	40603	PIGR_T1	1	1	0	0.7	0.8	0.1	0.62	0.63	0	0	0	0	0	0
6/24/2024 11:21	40601	PIGR_T1	3	3	0	0.2	0.33	0.13	0	0	0	0	0	0	0	0
6/24/2024 11:22	55105	WERT_T1	0	0	0	0	0	0	0.26	0.35	1	1	0	900	900	0
6/24/2024 11:22	40603	PIGR_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/24/2024 11:22	40602	PIGR_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
6/24/2024 11:22	40601	PIGR_T1	3	3	0	0.2	0.33	0.13	0	0	0	0	0	0	0	0
6/24/2024 11:23	55101	WERT_T1	0	0	0	0	0	0	-1.61	-1.68	4	4	0	3300	3300	0
6/24/2024 11:24	20402	ASHF_T2	6	6	0	0.52	1.63	1.11	0	0	0	0	0	0	0	0
6/24/2024 11:24	20401	ASHF_T2	4	4	0	0.68	0.55	-0.13	0.22	0.21	0	0	0	0	0	0
6/24/2024 11:24	45501	DERR_T2	0	1	1	0	0.2	0.2	0.98	0.98	2	2	0	1800	1800	0
6/24/2024 11:24	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 11:25	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 11:25	10102	ALLE_T2	1	1	0	8	7.8	-0.2	0	0	0	0	0	0	0	0
6/24/2024 11:25	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 11:25	45501	DERR_T2	0	1	1	0	0.2	0.2	0.98	0.98	2	2	0	1800	1800	0
6/24/2024 11:26	10805	CHHI_T2	8	15	7	1.48	1.51	0.03	-0.24	-0.28	1	1	0	600	600	0
6/24/2024 11:27	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 11:27	45501	DERR_T2	0	1	1	0	0.2	0.2	0.98	0.98	2	2	0	1800	1800	0
6/24/2024 11:27	11901	ETEX_T2	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
6/24/2024 11:27	11904	ETEX_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
6/24/2024 11:28	61102	BERK_T5	0	0	0	0	0	0	0.02	-0.3	2	2	0	1200	1200	0
6/24/2024 11:29	11901	ETEX_T2	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
6/24/2024 11:29	46203	DANV_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
6/24/2024 11:30	45501	DERR_T2	1	1	0	0.3	0.2	-0.1	0.98	0.98	2	2	0	1800	1800	0
6/24/2024 11:30	61102	BERK_T5	0	0	0	0	0	0	0.02	-0.3	2	2	0	1200	1200	0
6/24/2024 11:30	46506	LOHA_T1	1	1	0	0.3	0.6	0.3	-0.21	-0.18	0	0	0	0	0	0
6/24/2024 11:30	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 11:30	21203	ECAR_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
6/24/2024 11:31	12605	MACA_T1	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
6/24/2024 11:31	12601	MACA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/24/2024 11:31	12606	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 11:31	52004	LING_T2	1	0	-1	0.2	0	-0.2	0.74	0.75	0	0	0	0	0	0
6/24/2024 11:31	46203	DANV_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
6/24/2024 11:32	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 11:32	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
6/24/2024 11:32	64203	KINZ_T1	1	1	0	0.7	0.7	0	0.39	0.28	3	3	0	2100	2100	0
6/24/2024 11:32	64201	KINZ_T1	33	83	50	0.24	0.27	0.03	0	0	0	0	0	0	0	0
6/24/2024 11:32	46203	DANV_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
6/24/2024 11:32	42903	MIDD_T2	0	0	0	0	0	0	0.9	1	1	1	0	1200	1200	0
6/24/2024 11:33	52004	LING_T2	1	0	-1	0.2	0	-0.2	0.74	0.75	0	0	0	0	0	0
6/24/2024 11:34	41902	REED_T1	1	0	-1	0.3	0	-0.3	0.34	0.38	0	0	0	0	0	0
6/24/2024 11:35	67002	STHI_T2	0	1	1	0	0	0	1.14	1.14	0	0	0	0	0	0
6/24/2024 11:35	44703	MUNC_T2	1	0	-1	0.2	0	-0.2	0.9	0.85	0	0	0	0	0	0
6/24/2024 11:36	65901	SAKR_T2	1	1	0	7.1	6.9	-0.2	-0.57	-0.45	2	2	0	1500	1500	0
6/24/2024 11:37	13904	SEID_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
6/24/2024 11:39	10801	CHHI_T1	3	6	3	0.43	0.6	0.17	-1.32	-1.32	3	3	0	2100	2100	0
6/24/2024 11:40	62602	ENGL_T1	1	1	0	0.1	0.1	0	0.21	0.21	0	0	0	0	0	0
6/24/2024 11:40	67402	WAKE_T2	0	0	0	0	0	0	0.54	0.55	1	1	0	600	600	0
6/24/2024 11:40	62605	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 11:41	23901	EFMO_T2	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
6/24/2024 11:42	46203	DANV_T2	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
6/24/2024 11:42	10801	CHHI_T1	3	6	3	0.43	0.6	0.17	-1.32	-1.32	3	3	0	2100	2100	0
6/24/2024 11:43	46203	DANV_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
6/24/2024 11:43	54504	ENOL_T2	0	0	0	0	0	0	-0.72	-0.71	1	1	0	600	600	0
6/24/2024 11:44	46203	DANV_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
6/24/2024 11:44	54505	ENOL_T2	0	0	0	0	0	0	-0.89	-0.88	1	1	0	600	600	0
6/24/2024 11:47	43202	MVIL_T2	93	63	-30	0.7	0.4	-0.3	-0.48	-0.48	0	0	0	0	0	0
6/24/2024 11:47	64202	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/24/2024 11:47	13502	MCMI_T1	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
6/24/2024 11:47	64203	KINZ_T1	1	1	0	0.7	0.5	-0.2	0.28	0.35	3	3	0	2100	2100	0
6/24/2024 11:47	52001	LING_T1	0	0	0	0	0	0	0.7	0.71	0	0	0	0	0	0
6/24/2024 11:47	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
6/24/2024 11:47	64201	KINZ_T1	73	48	-25	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
6/24/2024 11:48	65501	MOJO_T1	0	0	0	0	0	0	-0.47	-0.46	1	1	0	900	900	0
6/24/2024 11:48	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
6/24/2024 11:48	64201	KINZ_T1	73	48	-25	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
6/24/2024 11:48	64202	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/24/2024 11:48	64203	KINZ_T1	1	1	0	0.7	0.5	-0.2	0.28	0.35	3	3	0	2100	2100	0
6/24/2024 11:49	46301	ROHR_T1	143	56	-87	0.3	0.24	-0.06	0.43	0.42	0	0	0	0	0	0
6/24/2024 11:49	13503	MCMI_T2	1	0	-1	0.2	0	-0.2	0.09	0.09	0	0	0	0	0	0
6/24/2024 11:49	46302	ROHR_T1	6	4	-2	1.23	1.55	0.32	0	0	0	0	0	0	0	0
6/24/2024 11:49	64101	REFR_T1	1	7	6	0.2	0.48	0.28	0.36	0.36	0	0	0	0	0	0
6/24/2024 11:50	52001	LING_T1	0	0	0	0	0	0	0.7	0.71	0	0	0	0	0	0
6/24/2024 11:51	59202	THOM_T1	0	6	6	0	0.45	0.45	0	0	0	0	0	0	0	0
6/24/2024 11:52	43202	MVIL_T2	93	63	-30	0.7	0.4	-0.3	-0.48	-0.48	0	0	0	0	0	0
6/24/2024 11:53	46302	ROHR_T1	6	4	-2	1.23	1.55	0.32	0	0	0	0	0	0	0	0
6/24/2024 11:53	46301	ROHR_T1	143	56	-87	0.3	0.24	-0.06	0.42	0.32	0	0	0	0	0	0
6/24/2024 11:54	56504	ROCK_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
6/24/2024 11:54	56501	ROCK_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
6/24/2024 11:56	60803	BUCK_T1	7	8	1	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
6/24/2024 11:56	67603	WARW_T1	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
6/24/2024 11:56	67605	WARW_T1	2	2	0	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
6/24/2024 11:56	56802	BENV_T2	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
6/24/2024 11:56	60801	BUCK_T1	1	1	0	0.1	0.3	0.2	-0.37	-0.36	1	1	0	600	600	0
6/24/2024 11:56	43301	WATS_T2	0	1	1	0	0.1	0.1	-0.41	-0.4	1	1	0	900	900	0
6/24/2024 11:57	56801	BENV_T1	9	10	1	0.59	0.58	-0.01	-0.38	-0.37	1	1	0	600	600	0
6/24/2024 11:57	56803	BENV_T1	1	2	1	2	1.7	-0.3	0	0	0	0	0	0	0	0
6/24/2024 11:59	56501	ROCK_T2	1	1	0	0.8	0.2	-0.6	-0.64	-0.62	0	0	0	0	0	0
6/24/2024 12:00	23901	EFMO_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
6/24/2024 12:00	26704	HEML_T2	0	0	0	0	0	0	-0.67	-0.66	1	1	0	1200	1200	0
6/24/2024 12:00	45802	HEGI_T2	8	13	5	0.25	0.47	0.22	0.02	0.21	4	4	0	2400	2400	0
6/24/2024 12:03	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/24/2024 12:03	64203	KINZ_T1	1	1	0	0.7	0.5	-0.2	0.35	0.36	3	3	0	2100	2100	0
6/24/2024 12:03	64201	KINZ_T1	45	22	-23	0.25	0.27	0.02	0	0	0	0	0	0	0	0
6/24/2024 12:04	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 12:04	67203	TEHI_T1	2	9	7	0.9	1.4	0.5	0	0	0	0	0	0	0	0
6/24/2024 12:04	67201	TEHI_T1	0	1	1	0	0.2	0.2	0.08	0.12	2	2	0	1500	1500	0
6/24/2024 12:04	64203	KINZ_T1	1	1	0	0.7	0.5	-0.2	0.35	0.36	3	3	0	2100	2100	0
6/24/2024 12:04	64201	KINZ_T1	45	22	-23	0.25	0.27	0.02	0	0	0	0	0	0	0	0
6/24/2024 12:04	42903	MIDD_T2	0	2	2	0	1.3	1.3	0.9	0.24	1	1	0	1200	1200	0
6/24/2024 12:04	42902	MIDD_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/24/2024 12:04	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/24/2024 12:05	64101	REFR_T1	4	10	6	0.5	0.53	0.03	0.36	0.37	0	0	0	0	0	0
6/24/2024 12:07	60301	TWVA_T2	0	0	0	0	0	0	-2.78	-2.69	2	2	0	1800	1800	0
6/24/2024 12:08	55101	WERT_T1	0	0	0	0	0	0	-1.66	-1.49	4	4	0	3300	3300	0
6/24/2024 12:10	45502	DERR_T2	0	4	4	0	0.2	0.2	0.41	0.45	0	0	0	0	0	0
6/24/2024 12:10	55102	WERT_T2	0	0	0	0	0	0	-1.33	-1.45	2	2	0	1200	1200	0
6/24/2024 12:10	45501	DERR_T2	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
6/24/2024 12:12	43301	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 12:12	52502	PROG_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
6/24/2024 12:12	52503	PROG_T2	0	0	0	0	0	0	-0.15	-0.26	2	2	0	1800	1800	0
6/24/2024 12:12	43304	WATS_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
6/24/2024 12:13	10801	CHHI_T1	4	3	-1	0.53	0.8	0.27	-1.16	-1.25	3	3	0	2100	2100	0
6/24/2024 12:13	12006	HATF_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
6/24/2024 12:13	12002	HATF_T1	0	0	0	0	0	0	-0.36	-0.4	1	1	0	1200	1200	0
6/24/2024 12:14	22101	EDEL_T2	0	0	0	0	0	0	0.8	0.8	1	1	0	1200	1200	0
6/24/2024 12:14	56603	HAMP_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
6/24/2024 12:14	56601	HAMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 12:15	24101	EHAZ_T1	20	22	2	1.2	0.92	-0.28	0	0	0	0	0	0	0	0
6/24/2024 12:15	40101	HUNT_T2	23	34	11	0.28	0.32	0.04	-0.27	-0.28	0	0	0	0	0	0
6/24/2024 12:15	24105	EHAZ_T1	4	4	0	6.23	5.78	-0.45	0	0	0	0	0	0	0	0
6/24/2024 12:15	24104	EHAZ_T1	0	0	0	0	0	0	-0.67	-0.69	1	1	0	1200	1200	0
6/24/2024 12:15	24102	EHAZ_T1	2	3	1	1.1	1.1	0	0	0	0	0	0	0	0	0
6/24/2024 12:16	25503	MADI_T1	0	3	3	0	0.2	0.2	-0.76	-0.77	0	0	0	0	0	0
6/24/2024 12:16	67402	WAKE_T2	0	0	0	0	0	0	0.56	0.57	1	1	0	600	600	0
6/24/2024 12:18	40101	HUNT_T2	23	34	11	0.28	0.32	0.04	-0.27	-0.28	0	0	0	0	0	0
6/24/2024 12:19	56601	HAMP_T1	1	1	0	0.1	0.2	0.1	-0.9	-0.9	0	0	0	0	0	0
6/24/2024 12:19	64204	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/24/2024 12:19	64201	KINZ_T1	22	6	-16	0.23	0.23	0	0.87	0.78	3	3	0	1200	1200	0
6/24/2024 12:19	64203	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/24/2024 12:20	12604	MACA_T1	0	0	0	0	0	0	0.78	0.8	0	0	0	0	0	0
6/24/2024 12:20	12606	MACA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 12:21	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 12:21	59202	THOM_T1	6	6	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
6/24/2024 12:22	66502	SMAN_T2	0	1	1	0	0.4	0.4	0.71	0.74	0	0	0	0	0	0
6/24/2024 12:22	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/24/2024 12:22	66505	SMAN_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
6/24/2024 12:23	67804	WLAN_T1	1	4	3	0.3	0.5	0.2	-0.5	-0.49	0	0	0	0	0	0
6/24/2024 12:23	67801	WLAN_T1	1	1	0	4.5	9.9	5.4	0	0	0	0	0	0	0	0
6/24/2024 12:23	63401	HONY_T1	0	0	0	0	0	0	0.65	0.62	1	1	0	600	600	0
6/24/2024 12:24	46001	BERW_T1	0	0	0	0	0	0	0.43	0.48	0	0	0	0	0	0
6/24/2024 12:24	14203	EALL_T1	0	0	0	0	0	0	0.52	0.41	1	1	0	1200	1200	0
6/24/2024 12:24	63401	HONY_T1	0	0	0	0	0	0	0.65	0.62	1	1	0	600	600	0
6/24/2024 12:24	57002	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/24/2024 12:24	57006	WHHI_T2	0	1	1	0	0.3	0.3	1.52	1.33	1	1	0	600	600	0
6/24/2024 12:25	67804	WLAN_T1	1	4	3	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/24/2024 12:25	46001	BERW_T1	0	0	0	0	0	0	0.85	0.97	0	0	0	0	0	0
6/24/2024 12:25	67801	WLAN_T1	1	1	0	4.5	9.9	5.4	0.21	0.12	0	0	0	0	0	0
6/24/2024 12:26	44801	EDAN_T2	1	1	0	0.3	0.2	-0.1	0.84	0.8	0	0	0	0	0	0
6/24/2024 12:26	57002	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/24/2024 12:26	57006	WHHI_T2	0	1	1	0	0.3	0.3	1.52	1.33	1	1	0	600	600	0
6/24/2024 12:27	46004	BERW_T2	0	0	0	0	0	0	0.48	0.54	0	0	0	0	0	0
6/24/2024 12:27	46001	BERW_T1	0	0	0	0	0	0	0.43	0.48	0	0	0	0	0	0
6/24/2024 12:28	52401	GRPA_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
6/24/2024 12:28	22003	BOHE_T1	22	283	261	0.29	0.41	0.12	0	0	0	0	0	0	0	0
6/24/2024 12:28	54505	ENOL_T2	0	0	0	0	0	0	-0.85	-0.84	1	1	0	600	600	0
6/24/2024 12:28	22001	BOHE_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/24/2024 12:28	22002	BOHE_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/24/2024 12:28	52403	GRPA_T2	2	7	5	0.6	1.03	0.43	0	0	0	0	0	0	0	0
6/24/2024 12:28	52402	GRPA_T2	2	1	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
6/24/2024 12:30	64201	KINZ_T1	3	41	38	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
6/24/2024 12:30	64203	KINZ_T1	1	2	1	0.9	0.7	-0.2	0.33	0.33	3	3	0	2100	2100	0
6/24/2024 12:30	44801	EDAN_T2	1	1	0	0.2	0.8	0.6	0.84	0.8	0	0	0	0	0	0
6/24/2024 12:30	64204	KINZ_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/24/2024 12:30	22905	HARW_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 12:30	41802	GOCI_T2	0	2	2	0	9.5	9.5	0	0	0	0	0	0	0	0
6/24/2024 12:30	22903	HARW_T1	4	5	1	0.18	0.4	0.22	0.6	0.69	0	0	0	0	0	0
6/24/2024 12:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 12:31	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 12:31	42902	MIDD_T2	0	0	0	0	0	0	0.1	-0.01	0	0	0	0	0	0
6/24/2024 12:31	41802	GOCI_T2	0	2	2	0	9.5	9.5	0	0	0	0	0	0	0	0
6/24/2024 12:31	42903	MIDD_T2	2	2	0	1.05	0.1	-0.95	0	0	0	0	0	0	0	0
6/24/2024 12:32	64902	MILL_T2	0	0	0	0	0	0	-0.69	-0.69	1	1	0	900	900	0
6/24/2024 12:32	58401	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 12:32	58402	MORO_T1	0	0	0	0	0	0	-0.52	-0.48	3	3	0	2400	2400	0
6/24/2024 12:32	46602	LACR_T1	3	2	-1	0.5	0.85	0.35	-0.6	-0.6	0	0	0	0	0	0
6/24/2024 12:32	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 12:33	64904	MILL_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
6/24/2024 12:33	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 12:35	44801	EDAN_T2	1	1	0	0.2	0.8	0.6	0.84	0.8	0	0	0	0	0	0
6/24/2024 12:35	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 12:35	44601	SALE_T2	0	0	0	0	0	0	0.23	1.43	2	1	-1	900	600	-300
6/24/2024 12:36	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
6/24/2024 12:36	59202	THOM_T1	5	2	-3	0.4	0.4	0	0	0	0	0	0	0	0	0
6/24/2024 12:36	59201	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 12:36	42204	SHEN_T2	0	0	0	0	0	0	-0.07	-0.1	1	1	0	1200	1200	0
6/24/2024 12:36	15702	TANN_T2	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
6/24/2024 12:37	59101	WALK_T2	35	4	-31	3.84	0	-3.84	0	0.65	1	0	-1	600	0	-600
6/24/2024 12:37	14601	SWHI_T1	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
6/24/2024 12:37	57002	WHHI_T2	0	0	0	0	0	0	-0.21	-0.25	0	0	0	0	0	0
6/24/2024 12:37	59102	WALK_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/24/2024 12:37	42201	SHEN_T2	0	0	0	0	0	0	0.12	0.13	1	1	0	600	600	0
6/24/2024 12:37	57006	WHHI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/24/2024 12:38	15702	TANN_T2	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
6/24/2024 12:38	10102	ALLE_T2	1	1	0	8.1	7.7	-0.4	0	0	0	0	0	0	0	0
6/24/2024 12:38	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 12:38	58003	WCAR_T1	4	3	-1	0.48	0.47	-0.01	0.58	0.6	1	1	0	600	600	0
6/24/2024 12:38	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
6/24/2024 12:38	58001	WCAR_T1	5	3	-2	0.46	0.2	-0.26	0	0	0	0	0	0	0	0
6/24/2024 12:39	67801	WLAN_T1	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
6/24/2024 12:39	67804	WLAN_T1	1	8	7	0.5	0.65	0.15	0	0	0	0	0	0	0	0
6/24/2024 12:40	44801	EDAN_T2	1	1	0	0.2	0.8	0.6	0.8	0.76	0	0	0	0	0	0
6/24/2024 12:40	67605	WARW_T1	1	1	0	1.3	1.2	-0.1	-0.61	-0.6	0	0	0	0	0	0
6/24/2024 12:40	57006	WHHI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/24/2024 12:40	58003	WCAR_T1	4	3	-1	0.48	0.47	-0.01	0.58	0.6	1	1	0	600	600	0
6/24/2024 12:40	57002	WHHI_T2	0	0	0	0	0	0	-0.21	-0.25	0	0	0	0	0	0
6/24/2024 12:40	46004	BERW_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
6/24/2024 12:40	58001	WCAR_T1	5	3	-2	0.46	0.2	-0.26	0	0	0	0	0	0	0	0
6/24/2024 12:41	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 12:42	44801	EDAN_T2	1	1	0	0.2	0.8	0.6	0.8	0.76	0	0	0	0	0	0
6/24/2024 12:43	16101	BING_T2	1	1	0	9.8	9.8	0	0	0	0	0	0	0	0	0
6/24/2024 12:43	16103	BING_T2	0	0	0	0	0	0	-1.55	-1.53	2	2	0	1500	1500	0
6/24/2024 12:43	52403	GRPA_T2	6	11	5	0.83	1.38	0.55	0.08	0.09	0	0	0	0	0	0
6/24/2024 12:43	16102	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/24/2024 12:43	54503	ENOL_T2	0	0	0	0	0	0	-0.83	-0.82	1	1	0	600	600	0
6/24/2024 12:43	52402	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/24/2024 12:46	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 12:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 12:46	64203	KINZ_T1	1	2	1	0.7	0.55	-0.15	0.33	0.37	3	3	0	2100	2100	0
6/24/2024 12:46	64201	KINZ_T1	6	42	36	0.22	0.34	0.12	0	0	0	0	0	0	0	0
6/24/2024 12:46	64204	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/24/2024 12:47	44202	POIN_T2	0	0	0	0	0	0	-0.25	-0.91	1	2	1	1200	1800	600
6/24/2024 12:47	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 12:49	12604	MACA_T1	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0	0
6/24/2024 12:49	12606	MACA_T1	2	13	11	0.15	0.42	0.27	0	0	0	0	0	0	0	0
6/24/2024 12:50	44801	EDAN_T2	1	1	0	0.8	1.2	0.4	0.8	0.76	0	0	0	0	0	0
6/24/2024 12:50	64101	REFR_T1	7	10	3	0.89	0.52	-0.37	0.79	0.79	0	0	0	0	0	0
6/24/2024 12:51	47403	PENS_T1	1	1	0	2	1.6	-0.4	0	0	0	0	0	0	0	0
6/24/2024 12:51	57205	ROSS_T1	1	3	2	1.1	0.53	-0.57	0	0	0	0	0	0	0	0
6/24/2024 12:51	47402	PENS_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/24/2024 12:51	57201	ROSS_T1	0	0	0	0	0	0	-1.24	-1.26	0	0	0	0	0	0
6/24/2024 12:51	12606	MACA_T1	2	13	11	0.15	0.42	0.27	0	0	0	0	0	0	0	0
6/24/2024 12:51	47401	PENS_T1	3	6	3	0.67	1.07	0.4	0.91	1.04	0	0	0	0	0	0
6/24/2024 12:51	64101	REFR_T1	7	10	3	0.89	0.52	-0.37	0.4	0.4	0	0	0	0	0	0
6/24/2024 12:51	12604	MACA_T1	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
6/24/2024 12:51	57203	ROSS_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/24/2024 12:51	16503	STRO_T2	0	0	0	0	0	0	-0.32	-0.36	1	1	0	1200	1200	0
6/24/2024 12:52	57203	ROSS_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/24/2024 12:52	57205	ROSS_T1	1	3	2	1.1	0.53	-0.57	0.93	0.94	0	0	0	0	0	0
6/24/2024 12:53	27502	WEIS_T2	1	0	-1	5.2	0	-5.2	0.12	0.12	0	0	0	0	0	0
6/24/2024 12:54	57201	ROSS_T1	0	0	0	0	0	0	-1.26	-1.21	0	0	0	0	0	0
6/24/2024 12:54	57203	ROSS_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/24/2024 12:54	57205	ROSS_T1	1	3	2	1.1	0.53	-0.57	0	0	0	0	0	0	0	0
6/24/2024 12:54	27502	WEIS_T2	1	0	-1	5.2	0	-5.2	0.12	0.12	0	0	0	0	0	0
6/24/2024 12:57	43301	WATS_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/24/2024 12:57	43304	WATS_T2	0	0	0	0	0	0	-0.55	-0.5	0	0	0	0	0	0
6/24/2024 12:59	53601	DALM_T2	1	1	0	0.1	0	-0.1	-0.16	-0.11	1	1	0	900	900	0
6/24/2024 12:59	25603	ARRO_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
6/24/2024 13:00	25603	ARRO_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
6/24/2024 13:01	52402	GRPA_T2	0	2	2	0	0.4	0.4	-0.55	-0.54	0	0	0	0	0	0
6/24/2024 13:01	22903	HARW_T1	3	13	10	0.3	0	-0.3	1.24	1.16	0	0	0	0	0	0
6/24/2024 13:01	64203	KINZ_T1	2	2	0	0.55	0.7	0.15	0.37	0.36	3	3	0	2100	2100	0
6/24/2024 13:01	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 13:01	52401	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/24/2024 13:01	22901	HARW_T1	0	9	9	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 13:01	52403	GRPA_T2	9	19	10	1.51	1.76	0.25	0	0	0	0	0	0	0	0
6/24/2024 13:01	64204	KINZ_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/24/2024 13:01	64201	KINZ_T1	41	29	-12	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
6/24/2024 13:01	42903	MIDD_T2	0	0	0	0	0	0	0.93	0.61	1	1	0	1200	1200	0
6/24/2024 13:02	47401	PENS_T1	5	6	1	1.1	1.03	-0.07	0.46	0.52	0	0	0	0	0	0
6/24/2024 13:02	64204	KINZ_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/24/2024 13:02	64201	KINZ_T1	41	29	-12	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
6/24/2024 13:02	47402	PENS_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
6/24/2024 13:02	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 13:02	64203	KINZ_T1	2	2	0	0.55	0.7	0.15	0.37	0.36	3	3	0	2100	2100	0
6/24/2024 13:02	47403	PENS_T1	1	3	2	1.6	0.57	-1.03	0	0	0	0	0	0	0	0
6/24/2024 13:03	47402	PENS_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
6/24/2024 13:03	47401	PENS_T1	5	6	1	1.1	1.03	-0.07	0.46	0.52	0	0	0	0	0	0
6/24/2024 13:03	13501	MCMI_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
6/24/2024 13:03	13502	MCMI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/24/2024 13:03	47403	PENS_T1	1	3	2	1.6	0.57	-1.03	0	0	0	0	0	0	0	0
6/24/2024 13:05	25603	ARRO_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
6/24/2024 13:07	47401	PENS_T1	5	6	1	1.1	1.03	-0.07	0.52	0.58	0	0	0	0	0	0
6/24/2024 13:07	47402	PENS_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
6/24/2024 13:07	47403	PENS_T1	1	3	2	1.6	0.57	-1.03	0	0	0	0	0	0	0	0
6/24/2024 13:08	57004	WHHI_T2	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
6/24/2024 13:08	57006	WHHI_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
6/24/2024 13:09	10102	ALLE_T2	1	1	0	7.7	7.8	0.1	0	0	0	0	0	0	0	0
6/24/2024 13:09	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 13:11	46206	DANV_T2	2	2	0	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
6/24/2024 13:11	46203	DANV_T2	0	0	0	0	0	0	-0.35	-0.31	0	0	0	0	0	0
6/24/2024 13:12	62601	ENGL_T1	0	0	0	0	0	0	-1.23	-1.23	0	0	0	0	0	0
6/24/2024 13:12	61504	EPET_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
6/24/2024 13:12	61501	EPET_T2	1	1	0	6.2	5.8	-0.4	0	0	0	0	0	0	0	0
6/24/2024 13:13	46206	DANV_T2	2	2	0	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
6/24/2024 13:13	46203	DANV_T2	0	0	0	0	0	0	-0.35	-0.31	0	0	0	0	0	0
6/24/2024 13:14	23202	HIRU_T2	0	3	3	0	0.1	0.1	0.14	0.14	0	0	0	0	0	0
6/24/2024 13:14	23201	HIRU_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/24/2024 13:15	45502	DERR_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/24/2024 13:15	45501	DERR_T2	2	2	0	0.7	0.7	0	1.09	1.08	2	2	0	1800	1800	0
6/24/2024 13:17	64202	KINZ_T1	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
6/24/2024 13:17	64204	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/24/2024 13:17	64201	KINZ_T1	11	28	17	0.33	0.26	-0.07	0	0	0	0	0	0	0	0
6/24/2024 13:17	64203	KINZ_T1	2	2	0	0.75	0.7	-0.05	0.36	0.54	3	3	0	2100	2100	0
6/24/2024 13:19	13606	RICH_T2	1	1	0	7.4	7.3	-0.1	0.73	0.91	0	0	0	0	0	0
6/24/2024 13:19	58202	NEWV_T1	0	0	0	0	0	0	0.95	1.05	0	0	0	0	0	0
6/24/2024 13:21	56504	ROCK_T2	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
6/24/2024 13:21	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 13:21	29402	BELT_T1	3	4	1	3.3	2.35	-0.95	0	0	0	0	0	0	0	0
6/24/2024 13:21	56501	ROCK_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/24/2024 13:23	67604	WARW_T1	0	0	0	0	0	0	0.44	0.56	0	0	0	0	0	0
6/24/2024 13:23	67605	WARW_T1	1	1	0	1.3	0.2	-1.1	-0.59	-0.58	0	0	0	0	0	0
6/24/2024 13:23	56501	ROCK_T2	1	1	0	0.4	0.2	-0.2	-0.56	-0.55	0	0	0	0	0	0
6/24/2024 13:24	44801	EDAN_T2	1	1	0	1.2	0.6	-0.6	0.81	0.84	0	0	0	0	0	0
6/24/2024 13:26	67605	WARW_T1	1	1	0	1.3	0.2	-1.1	0	0	0	0	0	0	0	0
6/24/2024 13:26	67604	WARW_T1	0	0	0	0	0	0	0.44	0.56	0	0	0	0	0	0
6/24/2024 13:27	45502	DERR_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/24/2024 13:27	45501	DERR_T2	2	2	0	0.7	0.7	0	3.23	3.38	6	6	0	5400	5400	0
6/24/2024 13:28	45502	DERR_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/24/2024 13:28	45501	DERR_T2	2	2	0	0.7	0.7	0	1.08	1.13	2	2	0	1800	1800	0
6/24/2024 13:31	22602	KIMB_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
6/24/2024 13:31	63501	HEID_TBK1-2	0	0	0	0	0	0	0.79	0.86	1	1	0	900	900	0
6/24/2024 13:35	59301	MCAL_T1	0	1	1	0	0	0	-0.61	-0.65	0	0	0	0	0	0
6/24/2024 13:35	59302	MCAL_T1	1	3	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/24/2024 13:35	14601	SWHI_T1	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
6/24/2024 13:37	64201	KINZ_T1	28	8	-20	0.34	0	-0.34	0	0	0	0	0	0	0	0
6/24/2024 13:37	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/24/2024 13:37	64204	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
6/24/2024 13:37	64203	KINZ_T1	2	2	0	0.7	0.7	0	0.45	0.57	3	3	0	2100	2100	0
6/24/2024 13:37	45403	WBLO_T1	0	0	0	0	0	0	0	0	3	3	0	3600	3600	0
6/24/2024 13:38	64204	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
6/24/2024 13:38	64201	KINZ_T1	28	8	-20	0.34	0	-0.34	0	0	0	0	0	0	0	0
6/24/2024 13:38	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/24/2024 13:38	64203	KINZ_T1	2	2	0	0.7	0.7	0	0.45	0.57	3	3	0	2100	2100	0
6/24/2024 13:42	62101	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/24/2024 13:42	11104	EGYP_T1	5	5	0	0.92	0.4	-0.52	0	0	0	0	0	0	0	0
6/24/2024 13:42	11102	EGYP_T1	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
6/24/2024 13:42	11101	EGYP_T1	0	0	0	0	0	0	0.46	0.47	1	1	0	1200	1200	0
6/24/2024 13:42	62102	ELAN_T1	0	0	0	0	0	0	1.47	1.53	0	0	0	0	0	0
6/24/2024 13:43	61505	EPET_T1	0	0	0	0	0	0	1.01	1.03	0	0	0	0	0	0
6/24/2024 13:43	63303	GREE_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/24/2024 13:43	63305	GREE_T1	0	0	0	0	0	0	-1.61	-1.63	1	1	0	900	900	0
6/24/2024 13:44	24202	PROV_T4	0	0	0	0	0	0	-0.21	-0.21	1	1	0	1200	1200	0
6/24/2024 13:44	24206	PROV_T4	0	18	18	0	0.4	0.4	0	0	0	0	0	0	0	0
6/24/2024 13:45	45802	HEGI_T2	39	42	3	0.8	1.02	0.22	0.07	0.04	2	2	0	1200	1200	0
6/24/2024 13:45	63303	GREE_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/24/2024 13:45	63305	GREE_T1	0	0	0	0	0	0	-1.61	-1.63	1	1	0	900	900	0
6/24/2024 13:46	62606	ENGL_T1	8	0	-8	0.33	0	-0.33	0	0	0	0	0	0	0	0
6/24/2024 13:46	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 13:46	21206	ECAR_T2	1	1	0	7.4	7.8	0.4	0.44	0.46	0	0	0	0	0	0
6/24/2024 13:46	62607	ENGL_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/24/2024 13:46	62601	ENGL_T1	0	0	0	0	0	0	-1.22	-1.22	0	0	0	0	0	0
6/24/2024 13:49	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 13:49	40902	JESH_T1	1	1	0	1.7	0.1	-1.6	-0.84	-0.87	3	3	0	1800	1800	0
6/24/2024 13:49	40901	JESH_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
6/24/2024 13:49	65401	MARI_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 13:50	46206	DANV_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/24/2024 13:50	46203	DANV_T2	1	0	-1	0.1	0	-0.1	-0.31	-0.32	0	0	0	0	0	0
6/24/2024 13:51	67602	WARW_T2	0	0	0	0	0	0	0.2	0.36	2	2	0	1500	1500	0
6/24/2024 13:52	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 13:52	67602	WARW_T2	0	0	0	0	0	0	0.2	0.36	2	2	0	1500	1500	0
6/24/2024 13:53	56803	BENV_T1	3	5	2	1.73	1.5	-0.23	0	0	0	0	0	0	0	0
6/24/2024 13:53	56801	BENV_T1	5	7	2	0.52	0.73	0.21	-0.29	-0.27	1	1	0	600	600	0
6/24/2024 13:54	67602	WARW_T2	0	0	0	0	0	0	0.2	0.36	2	2	0	1500	1500	0
6/24/2024 13:54	56803	BENV_T1	3	5	2	1.73	1.5	-0.23	0	0	0	0	0	0	0	0
6/24/2024 13:54	56801	BENV_T1	5	7	2	0.52	0.73	0.21	-0.29	-0.27	1	1	0	600	600	0
6/24/2024 13:55	67605	WARW_T1	0	1	1	0	1.2	1.2	-0.58	-0.58	0	0	0	0	0	0
6/24/2024 13:55	67602	WARW_T2	0	0	0	0	0	0	0.2	0.36	2	2	0	1500	1500	0
6/24/2024 13:56	44301	BEAV_T2	1	2	1	2.2	0.2	-2	0.67	0.75	2	2	0	1500	1500	0
6/24/2024 13:57	53501	EVIL_T2	0	2	2	0	0.2	0.2	-0.06	-0.25	2	2	0	800	800	0
6/24/2024 13:57	53502	EVIL_T2	2	2	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
6/24/2024 13:58	63305	GREE_T1	0	0	0	0	0	0	-1.63	-1.62	1	1	0	900	900	0
6/24/2024 13:58	53903	HALI_T2	4	3	-1	0.58	0.63	0.05	0.1	0.1	0	0	0	0	0	0
6/24/2024 13:58	53902	HALI_T2	2	2	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
6/24/2024 13:58	63303	GREE_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/24/2024 13:58	44301	BEAV_T2	1	2	1	2.2	0.2	-2	0.67	0.75	2	2	0	1500	1500	0
6/24/2024 13:59	53502	EVIL_T2	2	2	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
6/24/2024 13:59	53501	EVIL_T2	0	2	2	0	0.2	0.2	-0.06	-0.25	2	2	0	800	800	0
6/24/2024 14:00	64202	KINZ_T1	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
6/24/2024 14:00	67602	WARW_T2	0	0	0	0	0	0	0.2	0.36	2	2	0	1500	1500	0
6/24/2024 14:00	64201	KINZ_T1	0	43	43	0	0.15	0.15	0.94	0.9	3	3	0	1200	1200	0
6/24/2024 14:00	64203	KINZ_T1	1	2	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
6/24/2024 14:00	64204	KINZ_T1	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
6/24/2024 14:00	53502	EVIL_T2	2	1	-1	1	0.4	-0.6	0	0	0	0	0	0	0	0
6/24/2024 14:00	53501	EVIL_T2	0	2	2	0	0.2	0.2	-0.06	-0.25	2	2	0	800	800	0
6/24/2024 14:00	54505	ENOL_T2	0	0	0	0	0	0	-0.78	-0.76	1	1	0	600	600	0
6/24/2024 14:01	63202	MGTN_T2	0	1	1	0	0.1	0.1	-0.66	-0.74	1	1	0	900	900	0
6/24/2024 14:03	13601	RICH_T2	0	0	0	0	0	0	0.65	0.64	1	1	0	600	600	0
6/24/2024 14:03	13606	RICH_T2	1	1	0	7.3	7.1	-0.2	0	0	0	0	0	0	0	0
6/24/2024 14:04	47402	PENS_T1	2	2	0	0.55	0.85	0.3	0	0	0	0	0	0	0	0
6/24/2024 14:04	47401	PENS_T1	7	7	0	0.93	0.67	-0.26	0.68	0.54	0	0	0	0	0	0
6/24/2024 14:04	47403	PENS_T1	7	6	-1	0.59	0.98	0.39	0	0	0	0	0	0	0	0
6/24/2024 14:05	23001	SAJO_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
6/24/2024 14:05	47403	PENS_T1	7	6	-1	0.59	0.98	0.39	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/24/2024 14:05	23002	SAJO_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/24/2024 14:05	66902	SHIL_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/24/2024 14:05	47401	PENS_T1	7	7	0	0.93	0.67	-0.26	0.68	0.54	0	0	0	0	0	0
6/24/2024 14:05	47402	PENS_T1	2	2	0	0.55	0.85	0.3	0	0	0	0	0	0	0	0
6/24/2024 14:05	66901	SHIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/24/2024 14:05	66903	SHIL_T2	0	1	1	0	0.2	0.2	-1.03	-1.02	0	0	0	0	0	0
6/24/2024 14:06	57303	MOAL_T2	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
6/24/2024 14:06	57304	MOAL_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
6/24/2024 14:06	57306	MOAL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/24/2024 14:07	47401	PENS_T1	7	7	0	0.93	0.67	-0.26	0.54	0.6	0	0	0	0	0	0
6/24/2024 14:07	47403	PENS_T1	7	6	-1	0.59	0.98	0.39	0	0	0	0	0	0	0	0
6/24/2024 14:07	47402	PENS_T1	2	2	0	0.55	0.85	0.3	0	0	0	0	0	0	0	0
6/24/2024 14:07	64101	REFR_T1	3	3	0	0.13	0	-0.13	0.43	0.43	0	0	0	0	0	0
6/24/2024 14:08	28704	HAML_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
6/24/2024 14:08	28701	HAML_T2	0	94	94	0	0.97	0.97	0	0	0	0	0	0	0	0
6/24/2024 14:08	28703	HAML_T2	3	4	1	0.2	0.87	0.67	0	0	0	0	0	0	0	0
6/24/2024 14:08	28702	HAML_T2	0	3	3	0	0	0	0.25	0.24	0	0	0	0	0	0
6/24/2024 14:11	10705	CATA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/24/2024 14:11	10702	CATA_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
6/24/2024 14:13	45501	DERR_T2	3	2	-1	0.97	1.1	0.13	1.17	1.11	2	2	0	1800	1800	0
6/24/2024 14:13	45502	DERR_T2	1	5	4	2.2	0	-2.2	0	0	0	0	0	0	0	0
6/24/2024 14:16	52001	LING_T1	0	0	0	0	0	0	0.82	0.83	0	0	0	0	0	0
6/24/2024 14:16	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 14:16	46101	MACI_T2	0	0	0	0	0	0	-0.15	-0.13	1	1	0	1200	1200	0
6/24/2024 14:17	13103	NHAM_T2	0	0	0	0	0	0	-1.2	-1.21	1	1	0	600	600	0
6/24/2024 14:17	26704	HEML_T2	0	0	0	0	0	0	-0.68	-0.69	1	1	0	1200	1200	0
6/24/2024 14:18	40101	HUNT_T2	38	39	1	0.39	0.34	-0.05	-0.6	-0.36	0	0	0	0	0	0
6/24/2024 14:20	26401	INOR_T1	1	17	16	7.5	8.5	1	0	0	0	0	0	0	0	0
6/24/2024 14:20	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 14:20	58401	MORO_T1	0	0	0	0	0	0	-1.76	-1.78	3	3	0	2100	2100	0
6/24/2024 14:20	26402	INOR_T1	1	0	-1	0.1	0	-0.1	-1.09	-1.09	0	0	0	0	0	0
6/24/2024 14:21	67602	WARW_T2	0	0	0	0	0	0	0.28	0.27	2	2	0	1500	1500	0
6/24/2024 14:22	44601	SALE_T2	0	0	0	0	0	0	0.43	0.35	1	1	0	600	600	0
6/24/2024 14:23	67605	WARW_T1	1	0	-1	0.9	0	-0.9	-0.57	-0.57	0	0	0	0	0	0
6/24/2024 14:26	67602	WARW_T2	0	0	0	0	0	0	0.28	0.27	2	2	0	1500	1500	0
6/24/2024 14:28	67602	WARW_T2	0	0	0	0	0	0	0.28	0.27	2	2	0	1500	1500	0
6/24/2024 14:31	64204	KINZ_T1	1	1	0	0.4	1.3	0.9	0	0	0	0	0	0	0	0
6/24/2024 14:31	64203	KINZ_T1	2	1	-1	0.75	0	-0.75	0.61	0.49	3	3	0	2100	2100	0
6/24/2024 14:31	40101	HUNT_T2	36	33	-3	0.43	0.29	-0.14	-0.12	-0.14	0	0	0	0	0	0
6/24/2024 14:31	64201	KINZ_T1	43	0	-43	0.34	0	-0.34	0	0	0	0	0	0	0	0
6/24/2024 14:32	40101	HUNT_T2	36	33	-3	0.43	0.29	-0.14	-0.12	-0.14	0	0	0	0	0	0
6/24/2024 14:33	47402	PENS_T1	2	0	-2	0.85	0	-0.85	0	0	0	0	0	0	0	0
6/24/2024 14:33	40101	HUNT_T2	36	33	-3	0.43	0.29	-0.14	-0.12	-0.14	0	0	0	0	0	0
6/24/2024 14:33	47403	PENS_T1	3	3	0	0.97	1	0.03	0	0	0	0	0	0	0	0
6/24/2024 14:33	47401	PENS_T1	7	1	-6	0.7	0.3	-0.4	0.6	1.7	0	0	0	0	0	0
6/24/2024 14:34	51004	NHAR_T1	1	1	0	7.1	7.2	0.1	-1.21	-1.21	0	0	0	0	0	0
6/24/2024 14:34	40101	HUNT_T2	36	33	-3	0.43	0.29	-0.14	-0.12	-0.14	0	0	0	0	0	0
6/24/2024 14:35	14204	EALL_T2	0	0	0	0	0	0	-0.33	-0.25	0	0	0	0	0	0
6/24/2024 14:36	27605	PIRI_T2	0	0	0	0	0	0	0.1	0.09	1	1	0	900	900	0
6/24/2024 14:36	67002	STHI_T2	1	1	0	3.2	0	-3.2	0	0	0	0	0	0	0	0
6/24/2024 14:36	67001	STHI_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
6/24/2024 14:37	47401	PENS_T1	7	1	-6	0.7	0.3	-0.4	1.7	1.75	0	0	0	0	0	0
6/24/2024 14:37	47402	PENS_T1	2	0	-2	0.85	0	-0.85	0	0	0	0	0	0	0	0
6/24/2024 14:37	47403	PENS_T1	3	3	0	0.97	1	0.03	0	0	0	0	0	0	0	0
6/24/2024 14:38	27503	WEIS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/24/2024 14:38	27502	WEIS_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
6/24/2024 14:44	24701	FLND_T2	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
6/24/2024 14:44	22901	HARW_T1	0	2	2	0	0	0	-0.17	-0.09	1	1	0	1200	1200	0
6/24/2024 14:44	22002	BOHE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 14:44	22003	BOHE_T1	40	3	-37	0.23	0.63	0.4	0	0	0	0	0	0	0	0
6/24/2024 14:44	22903	HARW_T1	2	3	1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
6/24/2024 14:44	22001	BOHE_T1	11	0	-11	0.14	0	-0.14	0	0	0	0	0	0	0	0
6/24/2024 14:44	24702	FLND_T2	1	3	2	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/24/2024 14:46	58402	MORO_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/24/2024 14:46	58401	MORO_T1	0	0	0	0	0	0	-1.8	-1.81	3	3	0	2100	2100	0
6/24/2024 14:47	40902	JESH_T1	0	0	0	0	0	0	-1.01	-0.88	3	3	0	1800	1800	0
6/24/2024 14:47	65401	MARI_T1	10	0	-10	1	0	-1	-0.03	-0.03	0	0	0	0	0	0
6/24/2024 14:47	40901	JESH_T1	1	1	0	2.1	1.8	-0.3	0	0	0	0	0	0	0	0
6/24/2024 14:52	58402	MORO_T1	1	0	-1	0.6	0	-0.6	-0.33	-0.33	3	3	0	2400	2400	0
6/24/2024 14:57	24702	FLND_T2	3	3	0	0.5	0.4	-0.1	0.64	0.85	1	1	0	1200	1200	0
6/24/2024 15:03	61501	EPET_T2	1	1	0	5.7	5.3	-0.4	0	0	0	0	0	0	0	0
6/24/2024 15:03	61506	EPET_T2	0	0	0	0	0	0	-1.23	-1.26	2	2	0	1800	1800	0
6/24/2024 15:04	43302	WATS_T2	0	0	0	0	0	0	-0.71	-0.15	3	2	-1	2400	1800	-600
6/24/2024 15:07	67605	WARW_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/24/2024 15:07	67603	WARW_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
6/24/2024 15:07	47001	HUGH_T2	4	4	0	5.78	5.53	-0.25	-0.72	-0.61	1	1	0	900	900	0
6/24/2024 15:08	47001	HUGH_T2	4	4	0	5.78	5.53	-0.25	-0.72	-0.61	1	1	0	900	900	0
6/24/2024 15:10	64101	REFR_T1	3	4	1	0.2	0.23	0.03	0.43	0.49	0	0	0	0	0	0
6/24/2024 15:11	24204	PROV_T3	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
6/24/2024 15:11	24201	PROV_T3	1	1	0	8.6	8.1	-0.5	-1.99	-2	2	2	0	2400	2400	0
6/24/2024 15:12	11104	EGYP_T1	6	5	-1	0.52	0.68	0.16	0	0	0	0	0	0	0	0
6/24/2024 15:12	11102	EGYP_T1	1	1	0	0.6	0	-0.6	0.2	0.29	0	0	0	0	0	0
6/24/2024 15:14	24702	FLND_T2	2	2	0	0.35	0.6	0.25	0.85	0.55	1	1	0	1200	1200	0
6/24/2024 15:16	40101	HUNT_T2	92	128	36	0.45	0.39	-0.06	-0.19	-0.16	0	0	0	0	0	0
6/24/2024 15:17	43301	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/24/2024 15:17	43304	WATS_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
6/24/2024 15:18	64204	KINZ_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
6/24/2024 15:18	64203	KINZ_T1	0	0	0	0	0	0	0.44	0.54	3	3	0	2100	2100	0
6/24/2024 15:18	40101	HUNT_T2	92	128	36	0.45	0.39	-0.06	-0.19	-0.16	0	0	0	0	0	0
6/24/2024 15:19	13105	NHAM_T2	0	1	1	0	0	0	-1.37	-1.4	1	1	0	1200	1200	0
6/24/2024 15:20	16902	MECK_T1	0	1	1	0	0.1	0.1	0.18	0.17	0	0	0	0	0	0
6/24/2024 15:20	41902	REED_T1	0	1	1	0	0.3	0.3	0.45	0.46	0	0	0	0	0	0
6/24/2024 15:20	41901	REED_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/24/2024 15:21	64101	REFR_T1	4	7	3	0.4	0.23	-0.17	0.49	0.53	0	0	0	0	0	0
6/24/2024 15:21	67801	WLAN_T1	0	0	0	0	0	0	0.35	0.3	0	0	0	0	0	0
6/24/2024 15:21	29402	BELT_T1	1	1	0	8.6	8.7	0.1	0	0	0	0	0	0	0	0
6/24/2024 15:21	66504	SMAN_T2	0	0	0	0	0	0	-0.51	-0.34	1	1	0	1200	1200	0
6/24/2024 15:21	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 15:21	67804	WLAN_T1	3	4	1	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
6/24/2024 15:22	66504	SMAN_T2	0	0	0	0	0	0	-0.51	-0.34	1	1	0	1200	1200	0
6/24/2024 15:24	56803	BENV_T1	4	4	0	0.7	0.67	-0.03	0	0	0	0	0	0	0	0
6/24/2024 15:24	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 15:24	40302	TAMA_T3	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
6/24/2024 15:24	56801	BENV_T1	8	6	-2	0.5	0.53	0.03	-0.22	-0.21	1	1	0	600	600	0
6/24/2024 15:26	45501	DERR_T2	1	2	1	1	0.4	-0.6	0.97	0.92	2	2	0	1800	1800	0
6/24/2024 15:26	45502	DERR_T2	2	4	2	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
6/24/2024 15:27	11103	EGYP_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
6/24/2024 15:27	11102	EGYP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/24/2024 15:27	11104	EGYP_T1	5	5	0	0.7	0.44	-0.26	0	0	0	0	0	0	0	0
6/24/2024 15:29	45502	DERR_T2	2	4	2	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
6/24/2024 15:29	45501	DERR_T2	1	2	1	1	0.4	-0.6	0.97	0.92	2	2	0	1800	1800	0
6/24/2024 15:29	40101	HUNT_T2	92	128	36	0.45	0.39	-0.06	-0.16	-0.3	0	0	0	0	0	0
6/24/2024 15:30	11104	EGYP_T1	5	6	1	0.7	0.44	-0.26	0	0	0	0	0	0	0	0
6/24/2024 15:30	11102	EGYP_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/24/2024 15:30	11103	EGYP_T1	0	0	0	0	0	0	-1.06	-1.08	0	0	0	0	0	0
6/24/2024 15:31	54502	ENOL_T2	0	0	0	0	0	0	-1.07	-1.07	1	1	0	600	600	0
6/24/2024 15:32	13105	NHAM_T2	0	1	1	0	0.3	0.3	-1.4	-1.42	1	1	0	1200	1200	0
6/24/2024 15:32	55001	NEWP_T1	0	1	1	0	0	0	0.25	0.26	0	0	0	0	0	0
6/24/2024 15:32	12304	LANA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 15:32	12302	LANA_T2	0	0	0	0	0	0	-2.13	-2.12	3	3	0	2700	2700	0
6/24/2024 15:32	55002	NEWP_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
6/24/2024 15:34	55001	NEWP_T1	0	1	1	0	0	0	0.25	0.26	0	0	0	0	0	0
6/24/2024 15:34	55002	NEWP_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
6/24/2024 15:36	64101	REFR_T1	3	8	5	0.23	0	-0.23	0.53	0.57	0	0	0	0	0	0
6/24/2024 15:36	59202	THOM_T1	0	9	9	0	0.27	0.27	0	0	0	0	0	0	0	0
6/24/2024 15:36	55002	NEWP_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
6/24/2024 15:36	55001	NEWP_T1	0	1	1	0	0	0	0.25	0.26	0	0	0	0	0	0
6/24/2024 15:36	14203	EALL_T1	0	0	0	0	0	0	0.46	0.4	1	1	0	1200	1200	0
6/24/2024 15:36	67602	WARW_T2	0	0	0	0	0	0	0.17	0.19	2	2	0	1500	1500	0
6/24/2024 15:37	22003	BOHE_T1	1	2	1	1.2	0.65	-0.55	0	0	0	0	0	0	0	0
6/24/2024 15:37	64101	REFR_T1	3	8	5	0.23	0	-0.23	0.53	0.57	0	0	0	0	0	0
6/24/2024 15:40	64101	REFR_T1	3	8	5	0.23	0	-0.23	0.53	0.57	0	0	0	0	0	0
6/24/2024 15:41	61301	EARL_T1	0	0	0	0	0	0	-1.21	-1.22	2	2	0	1800	1800	0
6/24/2024 15:42	64101	REFR_T1	3	8	5	0.23	0	-0.23	0.53	0.57	0	0	0	0	0	0
6/24/2024 15:43	46002	BERW_T2	0	0	0	0	0	0	-0.97	-0.95	1	1	0	900	900	0
6/24/2024 15:43	61304	EARL_T1	0	0	0	0	0	0	-1.21	-1.22	2	2	0	1800	1800	0
6/24/2024 15:50	64101	REFR_T1	7	7	0	0.57	0	-0.57	0.53	0.57	0	0	0	0	0	0
6/24/2024 15:52	64101	REFR_T1	7	7	0	0.57	0	-0.57	0.57	0.61	0	0	0	0	0	0
6/24/2024 15:53	42201	SHEN_T2	0	53	53	0	0	0	0.44	0.48	1	1	0	600	600	0
6/24/2024 15:54	42201	SHEN_T2	0	53	53	0	0	0	0.44	0.48	1	1	0	600	600	0
6/24/2024 15:54	56501	ROCK_T2	1	2	1	0.3	0.2	-0.1	-1.67	-1.65	0	0	0	0	0	0
6/24/2024 15:54	56504	ROCK_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
6/24/2024 15:55	46206	DANV_T2	2	2	0	0.25	0.65	0.4	0	0	0	0	0	0	0	0
6/24/2024 15:55	46203	DANV_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
6/24/2024 15:56	10707	CATA_T2	0	0	0	0	0	0	0.69	0.74	0	0	0	0	0	0
6/24/2024 15:56	45502	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/24/2024 15:56	45501	DERR_T2	2	0	-2	0.4	0	-0.4	0.92	0.66	2	2	0	1800	1800	0
6/24/2024 15:56	10702	CATA_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 15:57	40601	PIGR_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/24/2024 15:57	40603	PIGR_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
6/24/2024 15:57	40602	PIGR_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
6/24/2024 15:58	46505	LOHA_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
6/24/2024 15:58	46504	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 15:58	64203	KINZ_T1	0	2	2	0	0.2	0.2	0.22	0.12	3	3	0	2100	2100	0
6/24/2024 15:58	64204	KINZ_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
6/24/2024 15:59	64204	KINZ_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
6/24/2024 15:59	46206	DANV_T2	2	2	0	0.25	0.65	0.4	0	0	0	0	0	0	0	0
6/24/2024 15:59	64203	KINZ_T1	0	2	2	0	0.2	0.2	0.22	0.12	3	3	0	2100	2100	0
6/24/2024 15:59	52402	GRPA_T2	4	6	2	0.28	0.6	0.32	0	0	0	0	0	0	0	0
6/24/2024 15:59	46203	DANV_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
6/24/2024 15:59	52403	GRPA_T2	55	23	-32	0.69	0.52	-0.17	0.27	0.27	0	0	0	0	0	0
6/24/2024 16:00	52004	LING_T2	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
6/24/2024 16:01	45801	HEGI_T1	0	0	0	0	0	0	0.23	0.23	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/24/2024 16:02	45802	HEGI_T2	5	10	5	0.26	0.25	-0.01	0.76	0.9	2	2	0	1200	1200	0
6/24/2024 16:03	23403	HONE_T1	0	0	0	0	0	0	-0.12	-0.09	0	0	0	0	0	0
6/24/2024 16:03	55001	NEWP_T1	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
6/24/2024 16:06	44203	POIN_T2	1	0	-1	0.2	0	-0.2	-0.14	-0.07	2	2	0	2100	2100	0
6/24/2024 16:06	64101	REFR_T1	1	10	9	0.9	0.63	-0.27	0.61	0.54	0	0	0	0	0	0
6/24/2024 16:07	61102	BERK_T5	0	0	0	0	0	0	0.39	0.31	2	2	0	1200	1200	0
6/24/2024 16:07	41901	REED_T1	6	9	3	0.17	0.21	0.04	0	0	0	0	0	0	0	0
6/24/2024 16:07	41902	REED_T1	0	6	6	0	0	0	0.5	0.52	0	0	0	0	0	0
6/24/2024 16:07	64101	REFR_T1	1	10	9	0.9	0.63	-0.27	0.61	0.54	0	0	0	0	0	0
6/24/2024 16:07	52002	LING_T2	0	0	0	0	0	0	0.83	0.86	0	0	0	0	0	0
6/24/2024 16:07	61101	BERK_T5	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/24/2024 16:08	16302	ALPA_T2	0	0	0	0	0	0	1.48	1.41	0	0	0	0	0	0
6/24/2024 16:08	64101	REFR_T1	1	10	9	0.9	0.63	-0.27	0.61	0.54	0	0	0	0	0	0
6/24/2024 16:08	15702	TANN_T2	1	0	-1	0.3	0	-0.3	-0.1	-0.12	0	0	0	0	0	0
6/24/2024 16:08	15703	TANN_T2	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
6/24/2024 16:09	61101	BERK_T5	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/24/2024 16:09	61102	BERK_T5	0	0	0	0	0	0	0.39	0.31	2	2	0	1200	1200	0
6/24/2024 16:10	45802	HEGI_T2	5	10	5	0.26	0.25	-0.01	0.9	0.76	2	2	0	1200	1200	0
6/24/2024 16:12	16302	ALPA_T2	0	0	0	0	0	0	4.43	4.24	0	0	0	0	0	0
6/24/2024 16:13	41801	GOCI_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/24/2024 16:18	59302	MCAL_T1	3	5	2	0.63	0.4	-0.23	-0.49	-0.57	1	1	0	600	600	0
6/24/2024 16:18	59301	MCAL_T1	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
6/24/2024 16:21	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 16:21	55001	NEWP_T1	0	0	0	0	0	0	0.6	0.68	0	0	0	0	0	0
6/24/2024 16:22	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 16:23	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 16:24	10901	CDOP_T2	0	0	0	0	0	0	0.03	0	1	1	0	1200	1200	0
6/24/2024 16:24	64101	REFR_T1	6	10	4	0.63	0.7	0.07	0.54	0.54	0	0	0	0	0	0
6/24/2024 16:28	27503	WEIS_T2	2	1	-1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
6/24/2024 16:28	27502	WEIS_T2	2	0	-2	0.25	0	-0.25	0.05	0	0	0	0	0	0	0
6/24/2024 16:29	40101	HUNT_T2	12	16	4	0.44	0.39	-0.05	-0.47	-0.48	0	0	0	0	0	0
6/24/2024 16:32	40101	HUNT_T2	15	10	-5	0.39	0.4	0.01	-0.47	-0.48	0	0	0	0	0	0
6/24/2024 16:32	16902	MECK_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
6/24/2024 16:36	56501	ROCK_T2	0	2	2	0	0	0	-1.64	-1.63	0	0	0	0	0	0
6/24/2024 16:36	56504	ROCK_T2	2	4	2	0.2	1	0.8	0	0	0	0	0	0	0	0
6/24/2024 16:38	67703	WERN_T2	0	1	1	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/24/2024 16:39	64101	REFR_T1	10	11	1	0.97	0.5	-0.47	0.54	0.55	0	0	0	0	0	0
6/24/2024 16:40	64101	REFR_T1	10	11	1	0.97	0.5	-0.47	0.54	0.55	0	0	0	0	0	0
6/24/2024 16:44	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
6/24/2024 16:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 16:46	16902	MECK_T1	0	4	4	0	0.1	0.1	0.16	0.16	0	0	0	0	0	0
6/24/2024 16:46	16402	MOPO_T1	2	6	4	0.1	0.1	0	0.55	0.54	0	0	0	0	0	0
6/24/2024 16:46	28403	HART_T2	0	0	0	0	0	0	-0.66	-0.66	1	1	0	900	900	0
6/24/2024 16:49	26704	HEML_T2	0	3	3	0	0.1	0.1	-0.72	-0.72	1	1	0	1200	1200	0
6/24/2024 16:54	56802	BENV_T2	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
6/24/2024 16:55	20403	ASHF_T2	0	0	0	0	0	0	0.66	0.71	0	0	0	0	0	0
6/24/2024 16:55	20401	ASHF_T2	3	6	3	0.43	0.9	0.47	0	0	0	0	0	0	0	0
6/24/2024 16:55	64101	REFR_T1	10	5	-5	0.7	0.18	-0.52	0.55	0.56	0	0	0	0	0	0
6/24/2024 16:56	20403	ASHF_T2	0	0	0	0	0	0	0.66	0.71	0	0	0	0	0	0
6/24/2024 16:56	20401	ASHF_T2	3	6	3	0.43	0.9	0.47	0	0	0	0	0	0	0	0
6/24/2024 16:58	24104	EHAZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 16:58	67602	WARW_T2	0	0	0	0	0	0	0.65	2.37	4	2	-2	3000	2400	-600
6/24/2024 16:58	24105	EHAZ_T1	4	4	0	5.55	5.6	0.05	0	0	0	0	0	0	0	0
6/24/2024 16:58	24102	EHAZ_T1	0	0	0	0	0	0	0.98	1.05	0	0	0	0	0	0
6/24/2024 16:59	45802	HEGI_T2	40	42	2	0.76	0.93	0.17	-0.02	0.3	2	1	-1	1200	900	-300
6/24/2024 17:01	43402	BENT_T1	29	69	40	0.28	0.46	0.18	-1.33	-1.47	2	2	0	1800	1800	0
6/24/2024 17:01	20603	GRWO_T2	2	16	14	0.1	0.16	0.06	-0.4	-0.4	1	1	0	900	900	0
6/24/2024 17:01	20601	GRWO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/24/2024 17:02	52002	LING_T2	2	14	12	0.25	0.15	-0.1	0.92	0.94	0	0	0	0	0	0
6/24/2024 17:03	52002	LING_T2	2	14	12	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
6/24/2024 17:03	52004	LING_T2	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
6/24/2024 17:04	13105	NHAM_T2	0	3	3	0	1.07	1.07	0	0	0	0	0	0	0	0
6/24/2024 17:04	13103	NHAM_T2	0	0	0	0	0	0	-1.22	-1.21	1	1	0	600	600	0
6/24/2024 17:04	26704	HEML_T2	0	3	3	0	0.1	0.1	-0.72	-0.72	1	1	0	1200	1200	0
6/24/2024 17:05	55405	SHER_T1	0	7	7	0	0.37	0.37	0.14	0.15	0	0	0	0	0	0
6/24/2024 17:08	60201	ATGL_T2	0	0	0	0	0	0	0.38	0.23	2	2	0	900	900	0
6/24/2024 17:10	65205	PRIN_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
6/24/2024 17:10	65202	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 17:10	44902	SCOT_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
6/24/2024 17:13	46203	DANV_T2	0	0	0	0	0	0	-0.21	-0.25	0	0	0	0	0	0
6/24/2024 17:13	46206	DANV_T2	3	3	0	1.27	0.93	-0.34	0	0	0	0	0	0	0	0
6/24/2024 17:14	14403	SSLA_T1	2	14	12	0.95	0.6	-0.35	1.34	1.34	0	0	0	0	0	0
6/24/2024 17:14	14402	SSLA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/24/2024 17:14	14404	SSLA_T1	1	1	0	3.8	4.2	0.4	0	0	0	0	0	0	0	0
6/24/2024 17:15	14404	SSLA_T1	1	1	0	4.2	4	-0.2	0	0	0	0	0	0	0	0
6/24/2024 17:15	14402	SSLA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/24/2024 17:15	14403	SSLA_T1	2	2	0	0.7	0.1	-0.6	1.34	1.34	0	0	0	0	0	0
6/24/2024 17:20	53501	EVIL_T2	1	1	0	0.6	0.5	-0.1	-0.42	-0.44	1	1	0	600	600	0
6/24/2024 17:20	43301	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 17:20	53502	EVIL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/24/2024 17:20	43304	WATS_T2	0	2	2	0	0.1	0.1	-0.18	-0.23	0	0	0	0	0	0
6/24/2024 17:23	56504	ROCK_T2	5	5	0	1.8	0.6	-1.2	0	0	0	0	0	0	0	0
6/24/2024 17:23	56501	ROCK_T2	2	1	-1	1	0	-1	-1.64	-1.64	0	0	0	0	0	0
6/24/2024 17:28	52402	GRPA_T2	4	3	-1	0.8	1.05	0.25	0	0	0	0	0	0	0	0
6/24/2024 17:28	65205	PRIN_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
6/24/2024 17:28	15603	NSTR_T2	3	2	-1	0.1	0.1	0	-0.46	-0.46	0	0	0	0	0	0
6/24/2024 17:28	52401	GRPA_T2	23	62	39	0.47	0.46	-0.01	0	0	0	0	0	0	0	0
6/24/2024 17:28	15601	NSTR_T2	3	3	0	0.73	0.97	0.24	0	0	0	0	0	0	0	0
6/24/2024 17:28	52403	GRPA_T2	49	76	27	0.83	1.36	0.53	0.24	0.08	0	0	0	0	0	0
6/24/2024 17:29	64303	LINC_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
6/24/2024 17:30	52403	GRPA_T2	74	88	14	1.36	1.42	0.06	0	0	0	0	0	0	0	0
6/24/2024 17:30	52401	GRPA_T2	62	35	-27	0.62	0.47	-0.15	-0.23	-0.24	0	0	0	0	0	0
6/24/2024 17:30	52402	GRPA_T2	2	5	3	1.05	0.45	-0.6	0	0	0	0	0	0	0	0
6/24/2024 17:31	67602	WARW_T2	0	0	0	0	0	0	1.23	0.17	1	2	1	300	1500	1200
6/24/2024 17:31	47101	MARL_T1	13	14	1	0.66	0.36	-0.3	-0.99	-0.82	1	0	-1	600	0	-600
6/24/2024 17:32	43304	WATS_T2	1	2	1	0.1	0.3	0.2	-0.23	-0.2	0	0	0	0	0	0
6/24/2024 17:32	47101	MARL_T1	13	14	1	0.66	0.36	-0.3	-0.99	-0.82	1	0	-1	600	0	-600
6/24/2024 17:33	64303	LINC_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
6/24/2024 17:34	47101	MARL_T1	13	14	1	0.66	0.36	-0.3	-1.98	-1.64	2	0	-2	1200	0	-1200
6/24/2024 17:35	24102	EHAZ_T1	0	1	1	0	0.1	0.1	0.98	1.05	0	0	0	0	0	0
6/24/2024 17:35	43304	WATS_T2	1	2	1	0.1	0.3	0.2	-0.23	-0.2	0	0	0	0	0	0
6/24/2024 17:35	24101	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 17:35	24105	EHAZ_T1	4	4	0	5.65	5.65	0	0	0	0	0	0	0	0	0
6/24/2024 17:37	67804	WLAN_T1	10	10	0	0.99	1.37	0.38	0	0	0	0	0	0	0	0
6/24/2024 17:37	67801	WLAN_T1	2	8	6	0.25	0.35	0.1	0.35	0.34	0	0	0	0	0	0
6/24/2024 17:44	41303	FISH_T1	2	1	-1	1.35	1.6	0.25	0	0	0	0	0	0	0	0
6/24/2024 17:44	41301	FISH_T1	2	3	1	0.45	1.33	0.88	-0.36	-0.36	0	0	0	0	0	0
6/24/2024 17:45	61703	ELIZ_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
6/24/2024 17:45	61701	ELIZ_T1	1	1	0	2.6	2.8	0.2	1.13	1.09	0	0	0	0	0	0
6/24/2024 17:47	41303	FISH_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
6/24/2024 17:47	41301	FISH_T1	3	3	0	1.3	1.53	0.23	-0.36	-0.36	0	0	0	0	0	0
6/24/2024 17:48	59101	WALK_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
6/24/2024 17:49	58402	MORO_T1	3	5	2	0.53	0.2	-0.33	0	0	0	0	0	0	0	0
6/24/2024 17:49	58401	MORO_T1	2	2	0	0.65	2	1.35	-3.54	-3.53	6	6	0	4200	4200	0
6/24/2024 17:52	61703	ELIZ_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
6/24/2024 17:52	61701	ELIZ_T1	1	1	0	2.6	2.8	0.2	1.09	1.05	0	0	0	0	0	0
6/24/2024 18:00	46203	DANV_T2	1	1	0	0.5	0	-0.5	-0.26	-0.23	0	0	0	0	0	0
6/24/2024 18:00	46206	DANV_T2	3	4	1	1.67	0.57	-1.1	0	0	0	0	0	0	0	0
6/24/2024 18:00	52401	GRPA_T2	34	34	0	0.56	0.6	0.04	0	0	0	0	0	0	0	0
6/24/2024 18:00	52403	GRPA_T2	86	79	-7	1.93	1.57	-0.36	0.07	0.05	0	0	0	0	0	0
6/24/2024 18:00	52402	GRPA_T2	4	6	2	0.45	0.6	0.15	0	0	0	0	0	0	0	0
6/24/2024 18:01	40101	HUNT_T2	50	51	1	0.56	0.48	-0.08	-0.54	-0.55	0	0	0	0	0	0
6/24/2024 18:01	14404	SSLA_T1	1	1	0	4.1	4.5	0.4	0	0	0	0	0	0	0	0
6/24/2024 18:01	14403	SSLA_T1	0	0	0	0	0	0	1.31	1.29	0	0	0	0	0	0
6/24/2024 18:03	14404	SSLA_T1	1	1	0	4.1	4.5	0.4	0	0	0	0	0	0	0	0
6/24/2024 18:03	22003	BOHE_T1	14	31	17	0.19	0.23	0.04	0	0	0	0	0	0	0	0
6/24/2024 18:03	22002	BOHE_T1	0	2	2	0	0.2	0.2	0.45	0.45	0	0	0	0	0	0
6/24/2024 18:03	22001	BOHE_T1	0	14	14	0	0.12	0.12	0	0	0	0	0	0	0	0
6/24/2024 18:03	14403	SSLA_T1	0	0	0	0	0	0	1.31	1.29	0	0	0	0	0	0
6/24/2024 18:04	53801	MBRG_T2	0	0	0	0	0	0	-1.35	-1.43	0	0	0	0	0	0
6/24/2024 18:05	59003	MIFF_T1	2	1	-1	1.45	2.7	1.25	-0.88	-0.59	0	0	0	0	0	0
6/24/2024 18:06	51003	NHAR_T1	0	0	0	0	0	0	-2.2	-2.29	1	1	0	1200	1200	0
6/24/2024 18:06	51004	NHAR_T1	1	1	0	6.8	6.3	-0.5	0	0	0	0	0	0	0	0
6/24/2024 18:06	51002	NHAR_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/24/2024 18:12	23203	HIRU_T2	0	5	5	0	0.12	0.12	0.18	0.18	0	0	0	0	0	0
6/24/2024 18:12	23202	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 18:12	23201	HIRU_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
6/24/2024 18:32	43202	MVIL_T2	64	63	-1	0.7	0.66	-0.04	-0.48	-0.49	0	0	0	0	0	0
6/24/2024 18:34	43202	MVIL_T2	64	63	-1	0.7	0.66	-0.04	-0.48	-0.49	0	0	0	0	0	0
6/24/2024 18:41	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 18:41	61301	EARL_T1	0	0	0	0	0	0	-1.28	-1.29	2	2	0	1800	1800	0
6/24/2024 18:41	61302	EARL_T1	2	3	1	0.35	1	0.65	0	0	0	0	0	0	0	0
6/24/2024 18:44	61301	EARL_T1	0	0	0	0	0	0	-1.28	-1.29	2	2	0	1800	1800	0
6/24/2024 18:44	61302	EARL_T1	2	3	1	0.35	1	0.65	0	0	0	0	0	0	0	0
6/24/2024 18:44	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 18:49	46901	MNTG_T2	0	1	1	0	0.1	0.1	1.89	1.82	0	0	0	0	0	0
6/24/2024 18:49	46903	MNTG_T2	10	6	-4	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
6/24/2024 18:49	46902	MNTG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 18:49	61701	ELIZ_T1	1	1	0	3	3.8	0.8	1.14	1.12	0	0	0	0	0	0
6/24/2024 18:49	52004	LING_T2	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
6/24/2024 18:52	67804	WLAN_T1	8	3	-5	0.75	0.33	-0.42	-0.37	-0.39	0	0	0	0	0	0
6/24/2024 18:52	67801	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 18:54	42701	AUGU_T1	85	82	-3	1.8	1.43	-0.37	0	0	0	0	0	0	0	0
6/24/2024 18:57	43401	BENT_T1	5	0	-5	1.68	0	-1.68	0	0	0	0	0	0	0	0
6/24/2024 18:57	43402	BENT_T1	0	0	0	0	0	0	-0.81	-0.81	1	1	0	900	900	0
6/24/2024 19:01	43402	BENT_T1	0	0	0	0	0	0	-0.81	-0.81	1	1	0	900	900	0
6/24/2024 19:02	46102	MACI_T1	0	0	0	0	0	0	0.97	0.97	0	0	0	0	0	0
6/24/2024 19:08	65603	QVIL_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
6/24/2024 19:08	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 19:13	67401	WAKE_T2	0	0	0	0	0	0	-1.37	-1.4	0	0	0	0	0	0
6/24/2024 19:14	62102	ELAN_T1	0	0	0	0	0	0	0.78	0.75	0	0	0	0	0	0
6/24/2024 19:14	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 19:16	62102	ELAN_T1	0	0	0	0	0	0	0.78	0.75	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/24/2024 19:16	46101	MACI_T2	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
6/24/2024 19:18	43202	MVIL_T2	60	71	11	0.65	0.8	0.15	-0.51	-0.52	0	0	0	0	0	0
6/24/2024 19:20	46101	MACI_T2	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
6/24/2024 19:28	61301	EARL_T1	0	0	0	0	0	0	-1.3	-1.31	2	2	0	1800	1800	0
6/24/2024 19:28	61302	EARL_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/24/2024 19:29	61302	EARL_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/24/2024 19:29	61301	EARL_T1	0	0	0	0	0	0	-1.3	-1.31	2	2	0	1800	1800	0
6/24/2024 19:38	47401	PENS_T1	3	3	0	1.3	0.25	-1.05	1.61	1.52	0	0	0	0	0	0
6/24/2024 19:40	43402	BENT_T1	0	11	11	0	6.1	6.1	-0.82	-0.76	1	1	0	900	900	0
6/24/2024 19:41	43402	BENT_T1	0	11	11	0	6.1	6.1	-0.82	-0.76	1	1	0	900	900	0
6/24/2024 19:42	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 19:42	21206	ECAR_T2	1	9	8	7.7	8.1	0.4	0.18	0.16	0	0	0	0	0	0
6/24/2024 19:44	63306	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 19:44	63305	GREE_T1	2	15	13	0.2	0.42	0.22	0	0	0	0	0	0	0	0
6/24/2024 20:00	63304	GREE_T1	0	0	0	0	0	0	-1.1	-1.12	0	0	0	0	0	0
6/24/2024 20:00	63305	GREE_T1	15	7	-8	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
6/24/2024 20:01	53903	HALI_T2	2	2	0	1.1	1.55	0.45	0	0	0	0	0	0	0	0
6/24/2024 20:01	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
6/24/2024 20:01	63304	GREE_T1	0	0	0	0	0	0	-1.1	-1.12	0	0	0	0	0	0
6/24/2024 20:01	63305	GREE_T1	15	7	-8	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
6/24/2024 20:01	53901	HALI_T2	0	3	3	0	0.13	0.13	-1.13	-1.14	0	0	0	0	0	0
6/24/2024 20:02	53901	HALI_T2	0	3	3	0	0.13	0.13	-1.13	-1.14	0	0	0	0	0	0
6/24/2024 20:02	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
6/24/2024 20:02	53903	HALI_T2	2	2	0	1.1	1.55	0.45	0	0	0	0	0	0	0	0
6/24/2024 20:03	48302	ORWI_T2	2	2	0	0.6	0.75	0.15	-0.27	-0.29	0	0	0	0	0	0
6/24/2024 20:05	65701	RVIL_T1	0	0	0	0	0	0	-1.04	-1.09	0	0	0	0	0	0
6/24/2024 20:05	52501	PROG_T1	1	2	1	0.1	0.15	0.05	0.41	0.4	1	1	0	300	300	0
6/24/2024 20:05	52504	PROG_T1	9	1	-8	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
6/24/2024 20:07	20403	ASHF_T2	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
6/24/2024 20:07	20401	ASHF_T2	4	6	2	0.55	0.48	-0.07	0	0	0	0	0	0	0	0
6/24/2024 20:07	20402	ASHF_T2	2	3	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/24/2024 20:08	65701	RVIL_T1	0	0	0	0	0	0	-1.09	-0.5	0	0	0	0	0	0
6/24/2024 20:11	61102	BERK_T5	0	0	0	0	0	0	-0.25	0	2	2	0	1200	1200	0
6/24/2024 20:14	21206	ECAR_T2	7	1	-6	1.4	7.9	6.5	0.15	0.14	0	0	0	0	0	0
6/24/2024 20:14	21204	ECAR_T2	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
6/24/2024 20:17	40802	EXCH_T2	2	0	-2	0.1	0	-0.1	-0.09	-0.09	0	0	0	0	0	0
6/24/2024 20:17	40801	EXCH_T2	3	2	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/24/2024 20:19	40801	EXCH_T2	3	2	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/24/2024 20:19	40802	EXCH_T2	2	0	-2	0.1	0	-0.1	-0.18	-0.19	0	0	0	0	0	0
6/24/2024 20:21	60801	BUCK_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
6/24/2024 20:21	60803	BUCK_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 20:23	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 20:23	29402	BELT_T1	1	1	0	9	8.9	-0.1	0	0	0	0	0	0	0	0
6/24/2024 20:25	43402	BENT_T1	3	0	-3	0.1	0	-0.1	-0.78	-0.78	1	1	0	900	900	0
6/24/2024 20:26	43402	BENT_T1	3	0	-3	0.1	0	-0.1	-0.78	-0.78	1	1	0	900	900	0
6/24/2024 20:39	66901	SHIL_T2	52	74	22	0.15	0.17	0.02	-0.62	-0.65	0	0	0	0	0	0
6/24/2024 20:39	66902	SHIL_T2	9	6	-3	0.11	0.13	0.02	0	0	0	0	0	0	0	0
6/24/2024 20:45	43402	BENT_T1	0	0	0	0	0	0	-0.78	-0.79	1	1	0	900	900	0
6/24/2024 20:46	43402	BENT_T1	0	0	0	0	0	0	-0.78	-0.79	1	1	0	900	900	0
6/24/2024 20:47	61301	EARL_T1	0	0	0	0	0	0	-1.33	-0.35	2	1	-1	1800	900	-900
6/24/2024 20:50	61801	EELI_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
6/24/2024 20:56	67502	WEWI_T2	0	0	0	0	0	0	-1.04	-1.1	1	1	0	900	900	0
6/24/2024 20:57	67502	WEWI_T2	0	0	0	0	0	0	-1.04	-1.1	1	1	0	900	900	0
6/24/2024 20:58	67503	WEWI_T2	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
6/24/2024 21:00	67502	WEWI_T2	0	0	0	0	0	0	-1.04	-1.1	1	1	0	900	900	0
6/24/2024 21:02	46801	HEPB_T2	2	2	0	0.85	1.1	0.25	-0.02	-0.05	0	0	0	0	0	0
6/24/2024 21:04	50502	MECH_T1	1	1	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
6/24/2024 21:04	50501	MECH_T1	0	2	2	0	0.15	0.15	-0.66	-0.08	0	0	0	0	0	0
6/24/2024 21:06	46801	HEPB_T2	2	2	0	0.85	1.1	0.25	0	0	0	0	0	0	0	0
6/24/2024 21:06	43402	BENT_T1	0	0	0	0	0	0	-0.8	-0.8	1	1	0	900	900	0
6/24/2024 21:06	46803	HEPB_T2	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
6/24/2024 21:07	43402	BENT_T1	0	0	0	0	0	0	-0.8	-0.8	1	1	0	900	900	0
6/24/2024 21:18	53901	HALI_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
6/24/2024 21:18	53903	HALI_T2	23	2	-21	0.3	1.55	1.25	0.03	0.02	0	0	0	0	0	0
6/24/2024 21:18	53902	HALI_T2	1	1	0	6.2	5.7	-0.5	0	0	0	0	0	0	0	0
6/24/2024 21:19	52503	PROG_T2	0	0	0	0	0	0	-0.22	-0.25	1	1	0	900	900	0
6/24/2024 21:19	16902	MECK_T1	0	20	20	0	0.18	0.18	0.07	0	0	0	0	0	0	0
6/24/2024 21:20	52503	PROG_T2	0	0	0	0	0	0	-0.22	-0.25	1	1	0	900	900	0
6/24/2024 21:22	52503	PROG_T2	0	0	0	0	0	0	-0.25	-0.27	1	1	0	900	900	0
6/24/2024 21:25	52503	PROG_T2	0	0	0	0	0	0	-0.25	-0.27	1	1	0	900	900	0
6/24/2024 21:27	14404	SSLA_T1	1	2	1	4.5	2.7	-1.8	0	0	0	0	0	0	0	0
6/24/2024 21:27	14403	SSLA_T1	1	0	-1	0.4	0	-0.4	1.04	1.09	0	0	0	0	0	0
6/24/2024 21:28	14403	SSLA_T1	1	0	-1	0.4	0	-0.4	1.04	1.09	0	0	0	0	0	0
6/24/2024 21:28	14404	SSLA_T1	1	2	1	4.5	2.7	-1.8	0	0	0	0	0	0	0	0
6/24/2024 21:47	43402	BENT_T1	0	0	0	0	0	0	-0.81	-0.82	1	1	0	900	900	0
6/24/2024 21:48	46301	ROHR_T1	361	344	-17	0.89	0.73	-0.16	0	0	0	0	0	0	0	0
6/24/2024 21:48	46302	ROHR_T1	171	136	-35	0.52	0.38	-0.14	0.26	0.26	0	0	0	0	0	0
6/24/2024 21:48	43402	BENT_T1	0	0	0	0	0	0	-0.81	-0.82	1	1	0	900	900	0
6/24/2024 21:53	46302	ROHR_T1	171	136	-35	0.52	0.38	-0.14	0.26	0.25	0	0	0	0	0	0
6/24/2024 21:53	46301	ROHR_T1	361	344	-17	0.89	0.73	-0.16	0	0	0	0	0	0	0	0
6/24/2024 21:57	46302	ROHR_T1	171	136	-35	0.52	0.38	-0.14	0	0	0	0	0	0	0	0
6/24/2024 21:57	46301	ROHR_T1	361	344	-17	0.89	0.73	-0.16	0.3	0.29	0	0	0	0	0	0
6/24/2024 22:01	56802	BENV_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
6/24/2024 22:08	43402	BENT_T1	0	3	3	0	0.13	0.13	-0.82	-0.83	1	1	0	900	900	0
6/24/2024 22:09	43402	BENT_T1	0	3	3	0	0.13	0.13	-0.82	-0.83	1	1	0	900	900	0
6/24/2024 22:18	56603	HAMP_T1	0	0	0	0	0	0	-0.51	-0.55	0	0	0	0	0	0
6/24/2024 22:23	59101	WALK_T2	0	0	0	0	0	0	-0.37	-0.41	0	0	0	0	0	0
6/24/2024 22:23	63401	HONY_T1	0	0	0	0	0	0	0.16	0.26	1	1	0	600	600	0
6/24/2024 22:29	43402	BENT_T1	0	3	3	0	0.23	0.23	-0.83	-0.84	1	1	0	900	900	0
6/24/2024 22:30	43402	BENT_T1	3	3	0	0.13	0.23	0.1	-0.83	-0.84	1	1	0	900	900	0
6/24/2024 22:30	46004	BERW_T2	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
6/24/2024 22:31	17002	RIRO_T2	1	1	0	0.9	1.5	0.6	0.52	0.5	0	0	0	0	0	0
6/24/2024 22:32	23202	HIRU_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
6/24/2024 22:34	65604	QVIL_T2	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
6/24/2024 22:34	65004	NEFF_T2	0	0	0	0	0	0	-0.68	-0.69	1	1	0	600	600	0
6/24/2024 22:35	26704	HEMI_T2	84	93	9	0.33	0.45	0.12	-0.81	-0.81	1	1	0	1200	1200	0
6/24/2024 22:35	16902	MECK_T1	0	0	0	0	0	0	0.14	0.05	0	0	0	0	0	0
6/24/2024 22:35	16402	MOPO_T1	0	0	0	0	0	0	0.12	-0.06	0	0	0	0	0	0
6/24/2024 22:35	60801	BUCK_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
6/24/2024 22:35	58402	MORO_T1	0	0	0	0	0	0	-0.86	-0.83	3	3	0	2400	2400	0
6/24/2024 22:36	20401	ASHF_T2	2	2	0	0.15	0.45	0.3	-0.02	-0.05	0	0	0	0	0	0
6/24/2024 22:36	41302	FISH_T2	9	12	3	0.61	0.81	0.2	0	0	0	0	0	0	0	0
6/24/2024 22:36	41304	FISH_T2	1	1	0	0	0	0	0.63	0.49	0	0	0	0	0	0
6/24/2024 22:37	65001	NEFF_T2	0	0	0	0	0	0	-0.54	-0.62	1	1	0	1200	1200	0
6/24/2024 22:37	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
6/24/2024 22:37	64901	MILL_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
6/24/2024 22:37	57006	WHHI_T2	0	0	0	0	0	0	1.85	1.84	1	1	0	600	600	0
6/24/2024 22:37	64902	MILL_T2	0	0	0	0	0	0	-0.3	-0.32	1	1	0	900	900	0
6/24/2024 22:37	64904	MILL_T1	1	0	-1	0.1	0	-0.1	0.01	-0.08	0	0	0	0	0	0
6/24/2024 22:37	13303	ORVI_T1	0	0	0	0	0	0	0.16	0.09	0	0	0	0	0	0
6/24/2024 22:38	29402	BELT_T1	1	1	0	7	7.4	0.4	0	0	0	0	0	0	0	0
6/24/2024 22:38	66504	SMAN_T2	0	0	0	0	0	0	-2.52	-2.57	2	2	0	2400	2400	0
6/24/2024 22:38	15703	TANN_T2	1	2	1	4.9	2.4	-2.5	0	0	0	0	0	0	0	0
6/24/2024 22:38	11104	EGYP_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/24/2024 22:38	41301	FISH_T1	3	3	0	1.07	1.1	0.03	-0.42	-0.43	0	0	0	0	0	0
6/24/2024 22:38	11101	EGYP_T1	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
6/24/2024 22:38	41303	FISH_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
6/24/2024 22:38	16503	STRO_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
6/24/2024 22:38	46203	DANV_T2	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
6/24/2024 22:38	15702	TANN_T2	0	10	10	0	0.1	0.1	-0.32	-0.33	0	0	0	0	0	0
6/24/2024 22:38	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/24/2024 22:38	10801	CHHI_T1	0	0	0	0	0	0	-1.19	-1.21	2	2	0	1500	1500	0
6/24/2024 22:39	47401	PENS_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
6/24/2024 22:39	52004	LING_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
6/24/2024 22:39	13502	MCMI_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
6/24/2024 22:39	20401	ASHF_T2	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
6/24/2024 22:39	61102	BERK_T5	0	0	0	0	0	0	0.27	0.17	2	2	0	1200	1200	0
6/24/2024 22:39	16302	ALPA_T2	0	0	0	0	0	0	0.87	0.86	0	0	0	0	0	0
6/24/2024 22:39	20403	ASHF_T2	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
6/24/2024 22:39	29402	BELT_T1	1	1	0	7	7.4	0.4	0	0	0	0	0	0	0	0
6/24/2024 22:39	48302	ORWI_T2	2	2	0	1.35	1.3	-0.05	-0.52	0.07	0	0	0	0	0	0
6/24/2024 22:39	13501	MCMI_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
6/24/2024 22:40	63401	HONY_T1	0	0	0	0	0	0	0.26	0.21	1	1	0	600	600	0
6/24/2024 22:40	67603	WARW_T1	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
6/24/2024 22:40	60501	NMAN_T2	3	3	0	3.87	4.33	0.46	0	0	0	0	0	0	0	0
6/24/2024 22:40	67605	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 22:40	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 22:40	52004	LING_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
6/24/2024 22:40	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 22:40	16302	ALPA_T2	0	0	0	0	0	0	0.87	0.86	0	0	0	0	0	0
6/24/2024 22:40	63404	HONY_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 22:40	57006	WHHI_T2	0	0	0	0	0	0	1.85	1.84	1	1	0	600	600	0
6/24/2024 22:40	40302	TAMA_T3	0	0	0	0	0	0	0.14	0.19	0	0	0	0	0	0
6/24/2024 22:40	23203	HIRU_T2	0	0	0	0	0	0	0.15	0.08	0	0	0	0	0	0
6/24/2024 22:40	13503	MCMI_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
6/24/2024 22:40	61501	EPET_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
6/24/2024 22:40	61506	EPET_T2	0	0	0	0	0	0	-0.82	-0.84	1	1	0	900	900	0
6/24/2024 22:40	16102	BING_T2	15	17	2	0.21	0.4	0.19	0.52	0.49	0	0	0	0	0	0
6/24/2024 22:40	64202	KINZ_T1	3	4	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/24/2024 22:40	60502	NMAN_T2	0	0	0	0	0	0	-0.12	-0.17	0	0	0	0	0	0
6/24/2024 22:40	64201	KINZ_T1	0	0	0	0	0	0	0.65	0.51	2	2	0	600	600	0
6/24/2024 22:40	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 22:40	64204	KINZ_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
6/24/2024 22:41	47001	HUGH_T2	3	3	0	8.7	8.6	-0.1	-0.76	-0.81	0	0	0	0	0	0
6/24/2024 22:41	11104	EGYP_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/24/2024 22:41	43402	BENT_T1	3	3	0	0.13	0.23	0.1	-0.84	-0.84	1	1	0	900	900	0
6/24/2024 22:41	56802	BENV_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
6/24/2024 22:41	11103	EGYP_T1	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
6/24/2024 22:41	23203	HIRU_T2	0	0	0	0	0	0	0.15	0.08	0	0	0	0	0	0
6/24/2024 22:41	66504	SMAN_T2	0	0	0	0	0	0	-1.26	-1.29	1	1	0	1200	1200	0
6/24/2024 22:41	16302	ALPA_T2	0	0	0	0	0	0	0.87	0.86	0	0	0	0	0	0
6/24/2024 22:42	55001	NEWP_T1	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
6/24/2024 22:42	59201	THOM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/24/2024 22:42	22903	HARW_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/24/2024 22:42	12604	MACA_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
6/24/2024 22:42	67602	WARW_T2	0	0	0	0	0	0	-0.16	-0.03	2	1	-1	1500	1200	-300
6/24/2024 22:42	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.14	-1.17	0	0	0	0	0	0
6/24/2024 22:42	43301	WATS_T2	0	1	1	0	0.1	0.1	-0.49	-0.52	1	1	0	900	900	0
6/24/2024 22:42	12602	MACA_T1	17	0	-17	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/24/2024 22:42	60502	NMAN_T2	0	0	0	0	0	0	-0.12	-0.17	0	0	0	0	0	0
6/24/2024 22:42	55002	NEWP_T1	2	2	0	0.45	0.75	0.3	-0.11	-0.11	0	0	0	0	0	0
6/24/2024 22:42	43402	BENT_T1	3	3	0	0.13	0.23	0.1	-0.84	-0.84	1	1	0	900	900	0
6/24/2024 22:42	41303	FISH_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
6/24/2024 22:42	41301	FISH_T1	3	3	0	1.07	1.1	0.03	-0.42	-0.43	0	0	0	0	0	0
6/24/2024 22:42	59202	THOM_T1	0	10	10	0	0.12	0.12	0	0	0	0	0	0	0	0
6/24/2024 22:42	60501	NMAN_T2	3	3	0	3.87	4.33	0.46	0	0	0	0	0	0	0	0
6/24/2024 22:42	43302	WATS_T2	4	4	0	0.33	0.45	0.12	0	0	0	0	0	0	0	0
6/24/2024 22:42	56802	BENV_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
6/24/2024 22:42	22904	HARW_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
6/24/2024 22:42	64101	REFR_T1	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
6/24/2024 22:43	65603	QVIL_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
6/24/2024 22:43	65604	QVIL_T2	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
6/24/2024 22:43	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
6/24/2024 22:43	41304	FISH_T2	1	1	0	0	0	0	0.49	0.44	0	0	0	0	0	0
6/24/2024 22:43	53901	HALI_T2	1	1	0	0.2	0.3	0.1	-1.19	-1.21	0	0	0	0	0	0
6/24/2024 22:43	56602	LACR_T1	3	0	-3	0.13	0	-0.13	-0.77	-0.79	0	0	0	0	0	0
6/24/2024 22:43	46203	DANV_T2	0	0	0	0	0	0	-0.58	-0.61	0	0	0	0	0	0
6/24/2024 22:43	16402	MOPO_T1	0	0	0	0	0	0	-0.06	0.09	0	0	0	0	0	0
6/24/2024 22:43	67805	WLAN_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 22:43	23901	EPMO_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
6/24/2024 22:43	64204	KINZ_T1	1	0	-1	1.2	1	-0.2	0	0	0	0	0	0	0	0
6/24/2024 22:43	67401	WAKE_T2	11	3	-8	0.15	0.1	-0.05	-0.84	-0.85	0	0	0	0	0	0
6/24/2024 22:43	46002	BERW_T2	0	0	0	0	0	0	-1.48	-1.49	1	1	0	900	900	0
6/24/2024 22:43	53903	HALI_T2	2	2	0	1.15	1.35	0.2	0	0	0	0	0	0	0	0
6/24/2024 22:43	64202	KINZ_T1	3	4	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/24/2024 22:43	53902	HALI_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
6/24/2024 22:43	67801	WLAN_T1	1	1	0	2.9	0.7	-2.2	0	0	0	0	0	0	0	0
6/24/2024 22:43	65205	PRIN_T1	1	1	0	1.1	1.6	0.5	0	0	0	0	0	0	0	0
6/24/2024 22:43	10801	CHHI_T1	0	0	0	0	0	0	-1.19	-1.21	2	2	0	1500	1500	0
6/24/2024 22:43	12604	MACA_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
6/24/2024 22:43	67804	WLAN_T1	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0
6/24/2024 22:43	64101	REFR_T1	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
6/24/2024 22:43	64201	KINZ_T1	0	0	0	0	0	0	0.65	0.51	2	2	0	600	600	0
6/24/2024 22:43	12602	MACA_T1	17	0	-17	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/24/2024 22:43	61301	EARL_T1	0	0	0	0	0	0	-0.38	-0.38	1	1	0	900	900	0
6/24/2024 22:43	15703	TANN_T2	1	2	1	4.9	2.4	-2.5	0	0	0	0	0	0	0	0
6/24/2024 22:43	41302	FISH_T2	9	12	3	0.61	0.81	0.2	0	0	0	0	0	0	0	0
6/24/2024 22:43	15702	TANN_T2	0	10	10	0	0.1	0.1	-0.32	-0.33	0	0	0	0	0	0
6/24/2024 22:44	56501	ROCK_T2	1	1	0	0.4	0	-0.4	-0.88	-0.91	0	0	0	0	0	0
6/24/2024 22:44	56801	BENV_T1	2	6	4	0.15	1.15	1	-0.5	-0.53	1	1	0	600	600	0
6/24/2024 22:44	28704	HAML_T2	1	13	12	1.2	0.19	-1.01	0	0	0	0	0	0	0	0
6/24/2024 22:44	47104	MARL_T1	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
6/24/2024 22:44	15703	TANN_T2	1	2	1	4.9	2.4	-2.5	0	0	0	0	0	0	0	0
6/24/2024 22:44	28701	HAML_T2	0	14	14	0	0.11	0.11	0	0	0	0	0	0	0	0
6/24/2024 22:44	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.14	-1.17	0	0	0	0	0	0
6/24/2024 22:44	60201	ATGL_T2	0	0	0	0	0	0	0.19	0.16	1	1	0	300	300	0
6/24/2024 22:44	45501	DERR_T2	0	0	0	0	0	0	-0.12	-0.14	2	2	0	1800	1800	0
6/24/2024 22:44	28703	HAML_T2	3	3	0	1.1	1.1	0	0	0	0	0	0	0	0	0
6/24/2024 22:44	52401	GRPA_T2	2	2	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/24/2024 22:44	15702	TANN_T2	0	10	10	0	0.1	0.1	-0.32	-0.33	0	0	0	0	0	0
6/24/2024 22:44	55001	NEWP_T1	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
6/24/2024 22:44	55002	NEWP_T1	2	2	0	0.45	0.75	0.3	0	0	0	0	0	0	0	0
6/24/2024 22:44	56802	BENV_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
6/24/2024 22:44	63202	MGTN_T2	0	0	0	0	0	0	-0.09	-0.13	1	1	0	900	900	0
6/24/2024 22:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 22:44	63305	GREE_T1	0	2	2	0	0.1	0.1	-1.82	-1.9	1	1	0	900	900	0
6/24/2024 22:44	28702	HAML_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
6/24/2024 22:44	13905	SEID_T1	0	0	0	0	0	0	-0.73	-0.74	1	1	0	1200	1200	0
6/24/2024 22:44	52004	LING_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
6/24/2024 22:44	47401	PENS_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
6/24/2024 22:44	67602	WARW_T2	0	0	0	0	0	0	-0.16	-0.03	2	1	-1	1500	1200	-300
6/24/2024 22:44	47101	MARL_T1	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
6/24/2024 22:44	52402	GRPA_T2	0	3	3	0	0.2	0.2	-0.68	-0.64	0	0	0	0	0	0
6/24/2024 22:44	64101	REFR_T1	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
6/24/2024 22:45	67801	WLAN_T1	1	2	1	0.7	3.4	2.7	-0.26	-0.29	0	0	0	0	0	0
6/24/2024 22:45	14203	EALL_T1	0	0	0	0	0	0	-0.03	-0.03	1	1	0	1200	1200	0
6/24/2024 22:45	46602	LACR_T1	0	0	0	0	0	0	-0.77	-0.79	0	0	0	0	0	0
6/24/2024 22:45	56601	HAMP_T1	0	0	0	0	0	0	-1.38	-1.36	0	0	0	0	0	0
6/24/2024 22:45	67203	TEHI_T1	0	0	0	0	0	0	1.68	2.23	3	2	-1	2100	1500	-600
6/24/2024 22:45	14204	EALL_T2	0	0	0	0	0	0	0.09	-0.07	0	0	0	0	0	0
6/24/2024 22:45	52002	LING_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
6/24/2024 22:45	64303	LINC_T1	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
6/24/2024 22:45	55002	NEWP_T1	2	2	0	0.6	0.75	0.15	-0.11	-0.11	0	0	0	0	0	0
6/24/2024 22:45	67602	WARW_T2	0	0	0	0	0	0	-0.16	-0.03	2	1	-1	1500	1200	-300
6/24/2024 22:45	10707	CATA_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
6/24/2024 22:45	67804	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 22:45	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.14	-1.17	0	0	0	0	0	0
6/24/2024 22:45	47401	PENS_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
6/24/2024 22:45	44301	BEAV_T2	0	0	0	0	0	0	0.22	0.19	1	1	0	600	600	0
6/24/2024 22:45	59202	THOM_T1	0	10	10	0	0.12	0.12	0	0	0	0	0	0	0	0
6/24/2024 22:45	16302	ALPA_T2	0	0	0	0	0	0	0.87	0.86	0	0	0	0	0	0
6/24/2024 22:45	25603	ARRO_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
6/24/2024 22:45	59201	THOM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 22:45	65402	MARI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 22:45	46101	MACI_T2	0	0	0	0	0	0	0.81	0.81	0	0	0	0	0	0
6/24/2024 22:46	53903	HALI_T2	2	2	0	1.35	1	-0.35	0	0	0	0	0	0	0	0
6/24/2024 22:46	46302	ROHR_T1	194	210	16	0.66	0.81	0.15	0	0	0	0	0	0	0	0
6/24/2024 22:46	25603	ARRO_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
6/24/2024 22:46	46301	ROHR_T1	385	403	18	0.96	1.02	0.06	0.28	0.27	0	0	0	0	0	0
6/24/2024 22:46	14601	SWHI_T1	0	0	0	0	0	0	-0.61	-0.63	0	0	0	0	0	0
6/24/2024 22:46	67602	WARW_T2	0	0	0	0	0	0	-0.32	-0.05	4	2	-2	3000	2400	-600
6/24/2024 22:46	21206	ECAR_T2	3	2	-1	2.87	7.3	4.43	0.02	1.24	0	0	0	0	0	0
6/24/2024 22:46	64101	REFR_T1	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
6/24/2024 22:46	53901	HALI_T2	1	1	0	0.3	0.1	-0.2	-1.19	-1.21	0	0	0	0	0	0
6/24/2024 22:46	53902	HALI_T2	1	1	0	5.6	4.9	-0.7	0	0	0	0	0	0	0	0
6/24/2024 22:46	25503	MADI_T1	61	93	32	0.18	0.33	0.15	-0.84	-0.85	0	0	0	0	0	0
6/24/2024 22:46	59301	MCAL_T1	2	3	1	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
6/24/2024 22:46	10801	CHHI_T1	0	0	0	0	0	0	-1.19	-1.21	2	2	0	1500	1500	0
6/24/2024 22:46	45501	DERR_T2	0	2	2	0	0	0	-0.12	-0.14	2	2	0	1800	1800	0
6/24/2024 22:46	65701	RVIL_T1	0	0	0	0	0	0	0.1	0.05	0	0	0	0	0	0
6/24/2024 22:46	21204	ECAR_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/24/2024 22:46	59302	MCAL_T1	1	1	0	0.5	0.8	0.3	-0.8	-0.82	1	1	0	600	600	0
6/24/2024 22:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 22:46	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 22:47	45501	DERR_T2	0	2	2	0	0	0	-0.12	-0.14	2	2	0	1800	1800	0
6/24/2024 22:47	52401	GRPA_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/24/2024 22:47	22002	BOHE_T1	2	2	0	0.4	0.2	-0.2	0.33	0.32	0	0	0	0	0	0
6/24/2024 22:47	53902	HALI_T2	1	1	0	5.6	4.9	-0.7	0	0	0	0	0	0	0	0
6/24/2024 22:47	22003	BOHE_T1	105	86	-19	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
6/24/2024 22:47	65402	MARI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 22:47	40601	PIGR_T1	0	14	14	0	0.11	0.11	0.03	0.01	0	0	0	0	0	0
6/24/2024 22:47	51003	NHAR_T1	0	0	0	0	0	0	-1.15	-1.18	1	1	0	1200	1200	0
6/24/2024 22:47	64101	REFR_T1	0	0	0	0	0	0	0.39	0.34	0	0	0	0	0	0
6/24/2024 22:47	52402	GRPA_T2	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/24/2024 22:47	53903	HALI_T2	2	2	0	1.35	1	-0.35	-0.01	-0.02	0	0	0	0	0	0
6/24/2024 22:47	53601	DALM_T2	1	1	0	0.2	0.3	0.1	0.7	0.7	0	0	0	0	0	0
6/24/2024 22:47	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.14	-1.17	0	0	0	0	0	0
6/24/2024 22:47	55002	NEWP_T1	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
6/24/2024 22:47	52404	GRPA_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
6/24/2024 22:47	65701	RVIL_T1	0	0	0	0	0	0	0.1	0.05	0	0	0	0	0	0
6/24/2024 22:47	52002	LING_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
6/24/2024 22:47	23403	HONE_T1	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
6/24/2024 22:47	55001	NEWP_T1	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
6/24/2024 22:47	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
6/24/2024 22:47	22903	HARW_T1	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
6/24/2024 22:47	10903	COOP_T2	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
6/24/2024 22:47	51004	NHAR_T1	1	1	0	6.3	6.6	0.3	0	0	0	0	0	0	0	0
6/24/2024 22:47	10901	COOP_T2	0	0	0	0	0	0	0.9	0.89	0	0	0	0	0	0
6/24/2024 22:47	40802	EXCH_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
6/24/2024 22:47	63404	HONY_T1	0	25	25	0	0.21	0.21	0	0	0	0	0	0	0	0
6/24/2024 22:47	46001	BERW_T1	0	1	1	0	0	0	0.77	0.75	0	0	0	0	0	0
6/24/2024 22:47	56501	ROCK_T2	0	1	1	0	0	0	-0.88	-0.91	0	0	0	0	0	0
6/24/2024 22:47	65205	PRIN_T1	1	1	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
6/24/2024 22:47	67602	WARW_T2	0	0	0	0	0	0	-0.16	-0.03	2	1	-1	1500	1200	-300
6/24/2024 22:47	22001	BOHE_T1	187	125	-62	0.14	0.12	-0.02	0	0	0	0	0	0	0	0
6/24/2024 22:47	51002	NHAR_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/24/2024 22:47	61102	BERK_T5	0	0	0	0	0	0	0.27	0.17	2	2	0	1200	1200	0
6/24/2024 22:47	53901	HALI_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/24/2024 22:47	63401	HONY_T1	0	0	0	0	0	0	0.26	0.21	1	1	0	600	600	0
6/24/2024 22:48	42902	MIDD_T2	0	0	0	0	0	0	-0.9	-0.84	1	1	0	600	600	0
6/24/2024 22:48	63305	GREE_T1	0	2	2	0	0.1	0.1	-1.82	-1.9	1	1	0	900	900	0
6/24/2024 22:48	63304	GREE_T1	0	0	0	0	0	0	-1.48	-1.52	0	0	0	0	0	0
6/24/2024 22:48	13302	ORVI_T2	0	0	0	0	0	0	0.94	0.88	0	0	0	0	0	0
6/24/2024 22:48	63306	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 22:48	59002	MIFF_T1	5	5	0	0.48	0.76	0.28	0	0	0	0	0	0	0	0
6/24/2024 22:48	59003	MIFF_T1	1	1	0	0.6	0.9	0.3	-0.38	-0.37	0	0	0	0	0	0
6/24/2024 22:48	47101	MARL_T1	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
6/24/2024 22:48	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
6/24/2024 22:48	10801	CHHI_T1	0	0	0	0	0	0	-1.19	-1.21	2	2	0	1500	1500	0
6/24/2024 22:48	12002	HATF_T1	0	0	0	0	0	0	-0.9	-0.96	1	1	0	1200	1200	0
6/24/2024 22:48	42903	MIDD_T2	2	2	0	0.85	1.1	0.25	0	0	0	0	0	0	0	0
6/24/2024 22:48	64101	REFR_T1	0	0	0	0	0	0	0.39	0.34	0	0	0	0	0	0
6/24/2024 22:48	67602	WARW_T2	0	0	0	0	0	0	-0.16	-0.03	2	1	-1	1500	1200	-300
6/24/2024 22:48	56801	BENV_T1	6	6	0	0.57	1.12	0.55	-0.5	-0.53	1	1	0	600	600	0
6/24/2024 22:48	47001	HUGH_T2	3	3	0	8.27	8.8	0.53	-0.76	-0.81	0	0	0	0	0	0
6/24/2024 22:49	58003	WCAR_T1	1	1	0	1.3	1.3	0	1.84	1.82	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/24/2024 22:49	56501	ROCK_T2	0	1	1	0	0	0	-0.88	-0.91	0	0	0	0	0	0
6/24/2024 22:49	52402	GRPA_T2	1	2	1	0.4	0.1	-0.3	-0.68	-0.64	0	0	0	0	0	0
6/24/2024 22:49	43302	WATS_T2	4	4	0	0.15	0.5	0.35	0	0	0	0	0	0	0	0
6/24/2024 22:49	61102	BERK_T5	0	0	0	0	0	0	0.27	0.17	2	2	0	1200	1200	0
6/24/2024 22:49	46001	BERW_T1	0	1	1	0	0	0	0.77	0.75	0	0	0	0	0	0
6/24/2024 22:49	52404	GRPA_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
6/24/2024 22:49	43304	WATS_T2	0	0	0	0	0	0	-0.29	-0.62	0	0	0	0	0	0
6/24/2024 22:49	58401	MORO_T1	0	0	0	0	0	0	-0.7	-0.73	1	1	0	600	600	0
6/24/2024 22:49	67201	TEHI_T1	0	0	0	0	0	0	-0.93	-0.96	1	1	0	900	900	0
6/24/2024 22:49	43301	WATS_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/24/2024 22:49	20401	ASHF_T2	2	3	1	0.35	0.57	0.22	0	0	0	0	0	0	0	0
6/24/2024 22:49	20403	ASHF_T2	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
6/24/2024 22:49	67602	WARW_T2	0	0	0	0	0	0	-0.16	-0.03	2	1	-1	1500	1200	-300
6/24/2024 22:49	45501	DERR_T2	0	2	2	0	0	0	-0.12	-0.14	2	2	0	1800	1800	0
6/24/2024 22:49	58001	WCAR_T1	4	4	0	0.88	0.98	0.1	0	0	0	0	0	0	0	0
6/24/2024 22:49	55101	WERT_T1	0	0	0	0	0	0	-2.71	-2.65	4	4	0	3600	3600	0
6/24/2024 22:49	43201	MVIL_T2	25	51	26	0.12	0.14	0.02	0	0	0	0	0	0	0	0
6/24/2024 22:49	44601	SALE_T2	1	1	0	0.4	0.4	0	0.07	0.05	0	0	0	0	0	0
6/24/2024 22:49	10805	CHHI_T2	1	1	0	7.5	7.5	0	-1.07	-1.12	1	1	0	600	600	0
6/24/2024 22:49	56802	BENV_T2	0	0	0	0	0	0	-0.82	-0.86	0	0	0	0	0	0
6/24/2024 22:49	46203	DANV_T2	0	0	0	0	0	0	-1.17	-1.23	0	0	0	0	0	0
6/24/2024 22:49	52401	GRPA_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/24/2024 22:49	43202	MVIL_T2	229	331	102	0.98	0.88	-0.1	-0.63	-0.63	0	0	0	0	0	0
6/24/2024 22:50	20401	ASHF_T2	2	3	1	0.35	0.57	0.22	0	0	0	0	0	0	0	0
6/24/2024 22:50	21206	ECAR_T2	3	2	-1	2.87	7.3	4.43	0.02	1.24	0	0	0	0	0	0
6/24/2024 22:50	55001	NEWP_T1	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
6/24/2024 22:50	20403	ASHF_T2	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
6/24/2024 22:50	55101	WERT_T1	0	0	0	0	0	0	-1.35	-1.32	2	2	0	1800	1800	0
6/24/2024 22:50	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/24/2024 22:50	65402	MARI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 22:50	47401	PENS_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
6/24/2024 22:50	24702	FLND_T2	0	0	0	0	0	0	-0.06	-0.13	1	1	0	1200	1200	0
6/24/2024 22:50	67602	WARW_T2	0	0	0	0	0	0	-0.16	-0.03	2	1	-1	1500	1200	-300
6/24/2024 22:50	56802	BENV_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
6/24/2024 22:50	44301	BEAV_T2	0	0	0	0	0	0	0.43	0.39	2	2	0	1200	1200	0
6/24/2024 22:50	55002	NEWP_T1	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
6/24/2024 22:50	21204	ECAR_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/24/2024 22:50	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 22:50	29402	BELT_T1	1	1	0	7.3	7.5	0.2	0	0	0	0	0	0	0	0
6/24/2024 22:50	52004	LING_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
6/24/2024 22:50	46001	BERW_T1	0	1	1	0	0	0	0.77	0.75	0	0	0	0	0	0
6/24/2024 22:50	64101	REFR_T1	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
6/24/2024 22:51	44601	SALE_T2	1	1	0	0.4	0.4	0	0.05	0.03	0	0	0	0	0	0
6/24/2024 22:51	45502	DERR_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
6/24/2024 22:51	43301	WATS_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/24/2024 22:51	57205	ROSS_T1	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
6/24/2024 22:51	45501	DERR_T2	0	2	2	0	0	0	-0.14	-0.33	2	2	0	1800	1800	0
6/24/2024 22:51	44801	EDAN_T2	0	0	0	0	0	0	1.23	1.22	0	0	0	0	0	0
6/24/2024 22:51	26402	INOR_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
6/24/2024 22:51	46101	MACI_T2	0	0	0	0	0	0	0.81	0.81	0	0	0	0	0	0
6/24/2024 22:51	64101	REFR_T1	0	0	0	0	0	0	0.34	0.76	0	0	0	0	0	0
6/24/2024 22:51	52503	PROG_T2	0	0	0	0	0	0	-0.38	-0.4	1	1	0	900	900	0
6/24/2024 22:51	52402	GRPA_T2	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/24/2024 22:51	65402	MARI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 22:51	56501	ROCK_T2	0	1	1	0	0	0	-0.88	-0.91	0	0	0	0	0	0
6/24/2024 22:51	45802	HEGI_T2	9	4	-5	0.3	0.18	-0.12	0.76	0.83	0	0	0	0	0	0
6/24/2024 22:51	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/24/2024 22:51	44301	BEAV_T2	0	0	0	0	0	0	0.39	0.62	2	2	0	1200	1200	0
6/24/2024 22:51	40601	PIGR_T1	0	14	14	0	0.11	0.11	0.03	0.01	0	0	0	0	0	0
6/24/2024 22:51	43302	WATS_T2	4	4	0	0.15	0.5	0.35	0	0	0	0	0	0	0	0
6/24/2024 22:51	52401	GRPA_T2	1	1	0	0.5	0.3	-0.2	-0.32	-0.34	0	0	0	0	0	0
6/24/2024 22:51	42903	MIDD_T2	2	2	0	0.85	1.1	0.25	-1.29	-1.28	1	1	0	1200	1200	0
6/24/2024 22:51	43304	WATS_T2	0	0	0	0	0	0	-0.62	-0.67	0	0	0	0	0	0
6/24/2024 22:52	47401	PENS_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
6/24/2024 22:52	45501	DERR_T2	0	2	2	0	0	0	-0.14	-0.33	2	2	0	1800	1800	0
6/24/2024 22:52	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 22:52	40601	PIGR_T1	0	14	14	0	0.11	0.11	0.01	0	0	0	0	0	0	0
6/24/2024 22:52	55405	SHER_T1	11	11	0	1.02	1.18	0.16	-0.38	-0.41	0	0	0	0	0	0
6/24/2024 22:52	43302	WATS_T2	4	4	0	0.15	0.5	0.35	0	0	0	0	0	0	0	0
6/24/2024 22:52	43304	WATS_T2	0	0	0	0	0	0	-1.24	-1.35	0	0	0	0	0	0
6/24/2024 22:52	55001	NEWP_T1	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
6/24/2024 22:52	59201	THOM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 22:52	43301	WATS_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/24/2024 22:52	66504	SMAN_T2	0	0	0	0	0	0	-1.29	-1.35	1	1	0	1200	1200	0
6/24/2024 22:52	21203	ECAR_T1	0	5	5	0	0.16	0.16	0.57	0.56	0	0	0	0	0	0
6/24/2024 22:52	59202	THOM_T1	0	10	10	0	0.12	0.12	0	0	0	0	0	0	0	0
6/24/2024 22:52	55002	NEWP_T1	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
6/24/2024 22:52	52002	LING_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
6/24/2024 22:52	46203	DANV_T2	0	0	0	0	0	0	-0.61	-0.64	0	0	0	0	0	0
6/24/2024 22:52	25603	ARRO_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
6/24/2024 22:53	45501	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 22:53	52501	PROG_T1	0	0	0	0	0	0	0.2	0.17	1	1	0	300	300	0
6/24/2024 22:53	52401	GRPA_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/24/2024 22:53	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.17	-1.21	0	0	0	0	0	0
6/24/2024 22:53	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.17	-1.21	0	0	0	0	0	0
6/24/2024 22:53	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.17	-1.21	0	0	0	0	0	0
6/24/2024 22:53	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.17	-1.21	0	0	0	0	0	0
6/24/2024 22:53	58401	MORO_T1	0	0	0	0	0	0	-0.73	-0.76	1	1	0	600	600	0
6/24/2024 22:53	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 22:53	54504	ENOL_T2	0	0	0	0	0	0	-0.8	-0.82	1	1	0	600	600	0
6/24/2024 22:53	52403	GRPA_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
6/24/2024 22:53	43401	BENT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 22:53	13502	MCMI_T1	0	20	20	0	0.15	0.15	0	0	0	0	0	0	0	0
6/24/2024 22:53	20603	GRWO_T2	7	52	45	0.11	0.26	0.15	-0.53	-0.53	1	1	0	900	900	0
6/24/2024 22:53	64303	LINC_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
6/24/2024 22:53	61803	EELI_T2	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
6/24/2024 22:53	40101	HUNT_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
6/24/2024 22:53	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 22:53	52402	GRPA_T2	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/24/2024 22:53	22602	KIMB_T1	1	1	0	0.3	0.2	-0.1	0.34	0.34	0	0	0	0	0	0
6/24/2024 22:53	45502	DERR_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
6/24/2024 22:53	59101	WALK_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
6/24/2024 22:53	42201	SHEN_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
6/24/2024 22:53	43402	BENT_T1	3	0	-3	0.23	0	-0.23	-0.84	-0.85	1	1	0	900	900	0
6/24/2024 22:53	53801	MBRG_T2	0	0	0	0	0	0	-1.7	-1.73	0	0	0	0	0	0
6/24/2024 22:54	56501	ROCK_T2	0	1	1	0	0	0	-0.91	-0.93	0	0	0	0	0	0
6/24/2024 22:54	40603	PIGR_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
6/24/2024 22:54	46102	MACI_T1	0	0	0	0	0	0	0.89	0.89	0	0	0	0	0	0
6/24/2024 22:54	53902	HALI_T2	1	1	0	5.6	4.9	-0.7	0	0	0	0	0	0	0	0
6/24/2024 22:54	46203	DANV_T2	0	0	0	0	0	0	-1.23	-1.29	0	0	0	0	0	0
6/24/2024 22:54	13105	NHAM_T2	0	1	1	0	0.6	0.6	-0.39	-0.4	1	1	0	1200	1200	0
6/24/2024 22:54	53901	HALI_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/24/2024 22:54	63304	GREE_T1	0	0	0	0	0	0	-1.52	-1.56	0	0	0	0	0	0
6/24/2024 22:54	58401	MORO_T1	0	0	0	0	0	0	-0.73	-0.76	1	1	0	600	600	0
6/24/2024 22:54	52403	GRPA_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
6/24/2024 22:54	53903	HALI_T2	2	2	0	1.35	1	-0.35	-0.02	-0.03	0	0	0	0	0	0
6/24/2024 22:54	52401	GRPA_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/24/2024 22:54	46001	BERW_T1	0	1	1	0	0	0	0.75	0.74	0	0	0	0	0	0
6/24/2024 22:54	55101	WERT_T1	0	0	0	0	0	0	-1.32	-1.3	2	2	0	1800	1800	0
6/24/2024 22:54	63305	GREE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 22:54	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.17	-1.21	0	0	0	0	0	0
6/24/2024 22:54	43202	MVIL_T2	229	331	102	0.98	0.88	-0.1	-1.27	-1.29	0	0	0	0	0	0
6/24/2024 22:54	40601	PIGR_T1	0	14	14	0	0.11	0.11	0	0	0	0	0	0	0	0
6/24/2024 22:54	52402	GRPA_T2	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/24/2024 22:54	43201	MVIL_T2	25	51	26	0.12	0.14	0.02	0	0	0	0	0	0	0	0
6/24/2024 22:55	64202	KINZ_T1	0	4	4	0	0.55	0.55	0	0	0	0	0	0	0	0
6/24/2024 22:55	52002	LING_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
6/24/2024 22:55	42701	AUGU_T1	24	16	-8	0.47	0.77	0.3	0	0	0	0	0	0	0	0
6/24/2024 22:55	55001	NEWP_T1	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
6/24/2024 22:55	55002	NEWP_T1	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
6/24/2024 22:55	43301	WATS_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/24/2024 22:55	44301	BEAV_T2	0	0	0	0	0	0	0.19	0.31	1	1	0	600	600	0
6/24/2024 22:55	52402	GRPA_T2	1	2	1	0.4	0.1	-0.3	-0.64	-0.53	0	0	0	0	0	0
6/24/2024 22:55	64204	KINZ_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
6/24/2024 22:55	40101	HUNT_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
6/24/2024 22:55	52401	GRPA_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/24/2024 22:55	43201	MVIL_T2	25	51	26	0.12	0.14	0.02	0	0	0	0	0	0	0	0
6/24/2024 22:55	42201	SHEN_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
6/24/2024 22:55	43304	WATS_T2	0	0	0	0	0	0	-1.24	-1.35	0	0	0	0	0	0
6/24/2024 22:55	43302	WATS_T2	4	4	0	0.15	0.5	0.35	0	0	0	0	0	0	0	0
6/24/2024 22:55	64101	REFR_T1	0	0	0	0	0	0	0.34	0.76	0	0	0	0	0	0
6/24/2024 22:55	55101	WERT_T1	0	0	0	0	0	0	-1.32	-1.3	2	2	0	1800	1800	0
6/24/2024 22:55	56501	ROCK_T2	0	1	1	0	0	0	-0.91	-0.93	0	0	0	0	0	0
6/24/2024 22:55	43202	MVIL_T2	229	331	102	0.98	0.88	-0.1	-0.63	-0.64	0	0	0	0	0	0
6/24/2024 22:55	64203	KINZ_T1	0	0	0	0	0	0	-0.23	-0.29	1	1	0	600	600	0
6/24/2024 22:55	44801	EDAN_T2	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
6/24/2024 22:56	46203	DANV_T2	0	0	0	0	0	0	-0.61	-0.64	0	0	0	0	0	0
6/24/2024 22:56	43202	MVIL_T2	229	331	102	0.98	0.88	-0.1	-0.63	-0.64	0	0	0	0	0	0
6/24/2024 22:56	43201	MVIL_T2	25	51	26	0.12	0.14	0.02	0	0	0	0	0	0	0	0
6/24/2024 22:56	23001	SAJO_T1	9	5	-4	0.18	0.22	0.04	0.18	0.21	0	0	0	0	0	0
6/24/2024 22:56	53903	HALI_T2	2	2	0	1.35	1	-0.35	-0.04	-0.06	0	0	0	0	0	0
6/24/2024 22:56	67402	WAKE_T2	0	0	0	0	0	0	-0.23	-0.25	1	1	0	600	600	0
6/24/2024 22:56	40901	JESH_T1	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
6/24/2024 22:56	47101	MARL_T1	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
6/24/2024 22:56	53901	HALI_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/24/2024 22:56	40801	EXCH_T2	0	0	0	0	0	0	-0.31	-0.27	1	1	0	1200	1200	0
6/24/2024 22:56	67401	WAKE_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 22:56	23002	SAJO_T1	6	0	-6	0.1	0.1	0	0	0	0	0	0	0	0	0
6/24/2024 22:56	53902	HALI_T2	1	1	0	5.6	4.9	-0.7	0	0	0	0	0	0	0	0
6/24/2024 22:56	41902	REED_T1	0	0	0	0	0	0	1.06	1.03	0	0	0	0	0	0
6/24/2024 22:56	55101	WERT_T1	0	0	0	0	0	0	-1.32	-1.3	2	2	0	1800	1800	0
6/24/2024 22:56	53501	EVIL_T2	2	2	0	0.4	0.85	0.45	-0.59	-0.72	1	1	0	600	600	0
6/24/2024 22:56	40902	JESH_T1	0	0	0	0	0	0	-1.22	-1.24	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/24/2024 22:56	46801	HEPB_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
6/24/2024 22:56	56801	BENV_T1	6	6	0	0.57	1.12	0.55	-0.53	-0.55	1	1	0	600	600	0
6/24/2024 22:56	23003	SAJO_T1	3	1	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/24/2024 22:56	61301	EARL_T1	0	0	0	0	0	0	-0.38	-0.39	1	1	0	900	900	0
6/24/2024 22:57	52002	LING_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
6/24/2024 22:57	41902	REED_T1	0	0	0	0	0	0	1.06	1.03	0	0	0	0	0	0
6/24/2024 22:57	41303	FISH_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
6/24/2024 22:57	47101	MARL_T1	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
6/24/2024 22:57	41301	FISH_T1	3	3	0	1.07	1.1	0.03	-0.43	-0.44	0	0	0	0	0	0
6/24/2024 22:58	55001	NEWP_T1	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
6/24/2024 22:58	45501	DERR_T2	0	2	2	0	0	0	-0.14	-0.33	2	2	0	1800	1800	0
6/24/2024 22:58	46504	LOHA_T1	2	47	45	1.15	0.46	-0.69	0	0	0	0	0	0	0	0
6/24/2024 22:58	46503	LOHA_T1	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
6/24/2024 22:58	55002	NEWP_T1	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
6/24/2024 22:58	44301	BEAV_T2	0	0	0	0	0	0	0.19	0.31	1	1	0	600	600	0
6/24/2024 22:59	52402	GRPA_T2	1	2	1	0.4	0.1	-0.3	-0.64	-0.53	0	0	0	0	0	0
6/24/2024 22:59	66504	SMAN_T2	0	0	0	0	0	0	-1.29	-1.35	1	1	0	1200	1200	0
6/24/2024 22:59	46901	MNTG_T2	0	0	0	0	0	0	1.89	1.67	0	0	0	0	0	0
6/24/2024 22:59	52401	GRPA_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/24/2024 22:59	45501	DERR_T2	0	2	2	0	0	0	-0.14	-0.33	2	2	0	1800	1800	0
6/24/2024 23:00	16902	MECK_T1	0	4	4	0	0.15	0.15	0.05	0.05	0	0	0	0	0	0
6/24/2024 23:00	16901	MECK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 23:01	11103	EGYP_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
6/24/2024 23:04	43402	BENT_T1	0	0	0	0	0	0	-0.84	-0.85	1	1	0	900	900	0
6/24/2024 23:05	44801	EDAN_T2	0	1	1	0	0	0	0.62	0.61	0	0	0	0	0	0
6/24/2024 23:05	43402	BENT_T1	0	0	0	0	0	0	-0.84	-0.85	1	1	0	900	900	0
6/24/2024 23:11	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 23:11	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/24/2024 23:11	62601	ENGL_T1	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
6/24/2024 23:14	57002	WHHI_T2	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
6/24/2024 23:25	43402	BENT_T1	0	2	2	0	0.1	0.1	-0.86	-0.86	1	1	0	900	900	0
6/24/2024 23:26	43402	BENT_T1	0	2	2	0	0.1	0.1	-0.86	-0.86	1	1	0	900	900	0
6/24/2024 23:30	52402	GRPA_T2	1	4	3	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/24/2024 23:30	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/24/2024 23:30	52401	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/24/2024 23:30	52403	GRPA_T2	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
6/24/2024 23:31	61701	ELIZ_T1	1	1	0	4.7	5	0.3	0.17	0.25	0	0	0	0	0	0
6/24/2024 23:36	46506	LOHA_T1	0	1	1	0	0.2	0.2	-0.27	-0.27	0	0	0	0	0	0
6/24/2024 23:36	46504	LOHA_T1	41	45	4	0.36	0.4	0.04	0	0	0	0	0	0	0	0
6/24/2024 23:39	44902	SCOT_T2	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
6/24/2024 23:46	43402	BENT_T1	2	0	-2	0.1	0	-0.1	-0.86	-0.87	1	1	0	900	900	0
6/24/2024 23:47	43402	BENT_T1	2	0	-2	0.1	0	-0.1	-0.86	-0.87	1	1	0	900	900	0
6/25/2024 0:07	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
6/25/2024 0:08	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
6/25/2024 0:28	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.89	1	1	0	900	900	0
6/25/2024 0:29	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.89	1	1	0	900	900	0
6/25/2024 0:34	46203	DANV_T2	0	0	0	0	0	0	-2.01	-2.02	0	0	0	0	0	0
6/25/2024 0:35	27502	WEIS_T2	0	0	0	0	0	0	-0.25	-0.39	0	0	0	0	0	0
6/25/2024 0:50	43402	BENT_T1	0	2	2	0	0.15	0.15	-0.89	-0.9	1	1	0	900	900	0
6/25/2024 0:51	43402	BENT_T1	0	2	2	0	0.15	0.15	-0.9	-0.9	1	1	0	900	900	0
6/25/2024 1:11	43402	BENT_T1	0	2	2	0	0.15	0.15	-0.9	-0.91	1	1	0	900	900	0
6/25/2024 1:12	43402	BENT_T1	0	2	2	0	0.15	0.15	-0.9	-0.91	1	1	0	900	900	0
6/25/2024 1:33	43402	BENT_T1	0	3	3	0	0.5	0.5	-0.91	-0.92	1	1	0	900	900	0
6/25/2024 1:34	43402	BENT_T1	0	3	3	0	0.5	0.5	-0.91	-0.92	1	1	0	900	900	0
6/25/2024 1:55	43402	BENT_T1	0	3	3	0	0.5	0.5	-0.92	-0.93	1	1	0	900	900	0
6/25/2024 1:56	43402	BENT_T1	0	3	3	0	0.5	0.5	-0.92	-0.93	1	1	0	900	900	0
6/25/2024 2:32	61304	EARL_T1	0	0	0	0	0	0	-0.44	-0.44	1	1	0	900	900	0
6/25/2024 2:33	61301	EARL_T1	0	0	0	0	0	0	-0.44	-0.44	1	1	0	900	900	0
6/25/2024 3:02	67605	WARW_T1	28	42	14	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
6/25/2024 3:02	67603	WARW_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
6/25/2024 3:51	43402	BENT_T1	3	3	0	0.3	0.17	-0.13	-0.96	-0.95	1	1	0	900	900	0
6/25/2024 4:01	61304	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/25/2024 4:01	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
6/25/2024 4:02	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
6/25/2024 4:02	61304	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/25/2024 4:09	65901	SAKR_T2	1	1	0	8.8	8.6	-0.2	-1.02	-1.03	1	1	0	900	900	0
6/25/2024 4:29	28403	HART_T2	0	0	0	0	0	0	-0.98	-0.98	1	1	0	900	900	0
6/25/2024 6:19	56501	ROCK_T2	0	1	1	0	0.2	0.2	0.02	0.02	0	0	0	0	0	0
6/25/2024 6:23	46302	ROHR_T1	9	8	-1	1.16	1.39	0.23	0.21	0.21	0	0	0	0	0	0
6/25/2024 6:23	46301	ROHR_T1	164	142	-22	0.23	0.23	0	0	0	0	0	0	0	0	0
6/25/2024 6:40	67805	WLAN_T1	0	0	0	0	0	0	-1.26	-0.98	0	0	0	0	0	0
6/25/2024 6:40	67801	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 6:44	62105	ELAN_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
6/25/2024 6:46	55101	WERT_T1	0	0	0	0	0	0	-1.1	-1.97	2	3	1	1500	2400	900
6/25/2024 6:46	55103	WERT_T1	1	1	0	6	4.6	-1.4	0	0	0	0	0	0	0	0
6/25/2024 6:51	65601	QVIL_T2	0	0	0	0	0	0	-1	-1	1	1	0	900	900	0
6/25/2024 6:53	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/25/2024 6:53	29402	BELT_T1	1	1	0	7.6	7.9	0.3	0	0	0	0	0	0	0	0
6/25/2024 7:02	43202	WVIL_T2	94	87	-7	0.89	0.61	-0.28	-0.59	-0.57	0	0	0	0	0	0
6/25/2024 7:06	67503	WEWI_T2	0	0	0	0	0	0	-0.13	-0.02	0	0	0	0	0	0
6/25/2024 7:07	66505	SMAN_T2	0	3	3	0	0.3	0.3	0.26	0.2	2	2	0	1500	1500	0
6/25/2024 7:09	29402	BELT_T1	1	1	0	7.9	8.1	0.2	0	0	0	0	0	0	0	0
6/25/2024 7:09	46001	BERW_T1	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
6/25/2024 7:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/25/2024 7:11	67001	STHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/25/2024 7:11	67002	STHI_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
6/25/2024 7:12	67002	STHI_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
6/25/2024 7:12	67001	STHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/25/2024 7:13	67002	STHI_T2	0	0	0	0	0	0	1.36	1.38	0	0	0	0	0	0
6/25/2024 7:13	67001	STHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/25/2024 7:15	61503	EPET_T1	0	0	0	0	0	0	-0.76	-0.86	0	0	0	0	0	0
6/25/2024 7:16	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 7:21	15203	SFAR_T2	1	1	0	0.1	0.1	0	-1.05	-1.07	0	0	0	0	0	0
6/25/2024 7:22	15203	SFAR_T2	1	1	0	0.1	0.1	0	-1.05	-1.07	0	0	0	0	0	0
6/25/2024 7:22	15204	SFAR_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
6/25/2024 7:23	16301	ALPA_T1	1	0	-1	0.1	0	-0.1	-0.21	-0.24	0	0	0	0	0	0
6/25/2024 7:24	15203	SFAR_T2	1	1	0	0.1	0.1	0	-1.05	-1.07	0	0	0	0	0	0
6/25/2024 7:25	22002	BOHE_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
6/25/2024 7:25	29402	BELT_T1	1	1	0	7.8	8.1	0.3	0	0	0	0	0	0	0	0
6/25/2024 7:25	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/25/2024 7:25	22003	BOHE_T1	1	16	15	1.3	0.19	-1.11	0	0	0	0	0	0	0	0
6/25/2024 7:27	10705	CATA_T2	0	0	0	0	0	0	-0.77	-0.79	1	1	0	900	900	0
6/25/2024 7:28	10705	CATA_T2	0	0	0	0	0	0	-0.77	-0.79	1	1	0	900	900	0
6/25/2024 7:29	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.4	1	1	0	900	900	0
6/25/2024 7:29	55103	WERT_T1	1	0	-1	4.9	0	-4.9	0	0	0	0	0	0	0	0
6/25/2024 7:30	13501	MCMI_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
6/25/2024 7:36	67505	WEWI_T1	0	0	0	0	0	0	0.01	0.04	1	1	0	900	900	0
6/25/2024 7:37	67801	WLAN_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/25/2024 7:37	67804	WLAN_T1	0	0	0	0	0	0	-1.01	-0.99	0	0	0	0	0	0
6/25/2024 7:38	67803	WLAN_T1	0	0	0	0	0	0	-0.76	-0.75	0	0	0	0	0	0
6/25/2024 7:38	67801	WLAN_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/25/2024 7:39	60301	TWVA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 7:39	67801	WLAN_T1	1	0	-1	0.4	0	-0.4	0.17	0.07	0	0	0	0	0	0
6/25/2024 7:39	60305	TWVA_T2	0	0	0	0	0	0	-1.62	-1.62	2	2	0	2400	2400	0
6/25/2024 7:39	67803	WLAN_T1	0	0	0	0	0	0	-0.76	-0.75	0	0	0	0	0	0
6/25/2024 7:39	67805	WLAN_T1	0	0	0	0	0	0	-0.79	-0.77	0	0	0	0	0	0
6/25/2024 7:40	56802	BENV_T2	1	2	1	0.6	0.3	-0.3	-1.29	-1.26	0	0	0	0	0	0
6/25/2024 7:41	22003	BOHE_T1	16	5	-11	0.19	0.42	0.23	0	0	0	0	0	0	0	0
6/25/2024 7:41	22002	BOHE_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
6/25/2024 7:43	56802	BENV_T2	1	2	1	0.6	0.3	-0.3	-1.29	-1.26	0	0	0	0	0	0
6/25/2024 7:52	67804	WLAN_T1	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
6/25/2024 7:52	67803	WLAN_T1	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
6/25/2024 7:52	46302	ROHR_T1	5	48	43	1.62	0.34	-1.28	0.21	0.21	0	0	0	0	0	0
6/25/2024 7:52	46301	ROHR_T1	66	252	186	0.16	0.42	0.26	0	0	0	0	0	0	0	0
6/25/2024 7:53	60802	BUCK_T2	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
6/25/2024 7:53	67605	WARW_T1	9	7	-2	0.28	0.2	-0.08	-0.86	-0.8	0	0	0	0	0	0
6/25/2024 7:54	10705	CATA_T2	0	0	0	0	0	0	-0.71	-0.67	1	1	0	900	900	0
6/25/2024 7:54	14403	SSLA_T1	0	0	0	0	0	0	1.18	1.15	0	0	0	0	0	0
6/25/2024 7:54	14404	SSLA_T1	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
6/25/2024 7:55	59101	WALK_T2	0	0	0	0	0	0	0.45	0.24	0	0	0	0	0	0
6/25/2024 7:55	67804	WLAN_T1	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
6/25/2024 7:55	67803	WLAN_T1	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
6/25/2024 7:55	56802	BENV_T2	2	55	53	0.3	0.16	-0.14	-1.26	-1.22	0	0	0	0	0	0
6/25/2024 7:56	20403	ASHF_T2	0	0	0	0	0	0	1.2	1.28	0	0	0	0	0	0
6/25/2024 7:56	67804	WLAN_T1	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
6/25/2024 7:57	63804	HEMP_T1	1	1	0	6.9	6.8	-0.1	-0.3	-0.28	0	0	0	0	0	0
6/25/2024 7:58	21203	ECAR_T1	0	0	0	0	0	0	0.85	0.95	0	0	0	0	0	0
6/25/2024 7:59	63804	HEMP_T1	1	1	0	6.9	6.8	-0.1	-0.3	-0.28	0	0	0	0	0	0
6/25/2024 8:02	63804	HEMP_T1	1	1	0	6.8	7.1	0.3	-0.3	-0.28	0	0	0	0	0	0
6/25/2024 8:04	22701	MINO_T1	0	0	0	0	0	0	-0.86	-0.84	1	1	0	600	600	0
6/25/2024 8:04	12601	MACA_T1	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
6/25/2024 8:04	12604	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 8:05	56501	ROCK_T2	1	2	1	0.3	0.65	0.35	-1.18	-1.15	0	0	0	0	0	0
6/25/2024 8:06	56501	ROCK_T2	1	2	1	0.3	0.65	0.35	-1.18	-1.15	0	0	0	0	0	0
6/25/2024 8:08	58001	WCAR_T1	4	4	0	0.7	1.6	0.9	0	0	0	0	0	0	0	0
6/25/2024 8:08	40602	PIGR_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
6/25/2024 8:08	58003	WCAR_T1	1	12	11	1.1	0.31	-0.79	0.24	0.27	1	1	0	600	600	0
6/25/2024 8:08	40601	PIGR_T1	42	13	-29	0.13	0.15	0.02	0	0	0	0	0	0	0	0
6/25/2024 8:08	56501	ROCK_T2	1	2	1	0.3	0.65	0.35	-1.15	-1.12	0	0	0	0	0	0
6/25/2024 8:09	56801	BENV_T1	13	22	9	0.62	0.91	0.29	0	0	0	0	0	0	0	0
6/25/2024 8:09	56803	BENV_T1	1	1	0	2.3	1.5	-0.8	0.42	0.5	0	0	0	0	0	0
6/25/2024 8:10	56803	BENV_T1	1	1	0	2.3	1.5	-0.8	0.42	0.5	0	0	0	0	0	0
6/25/2024 8:10	56801	BENV_T1	13	22	9	0.62	0.91	0.29	0	0	0	0	0	0	0	0
6/25/2024 8:11	56801	BENV_T1	13	22	9	0.62	0.91	0.29	0	0	0	0	0	0	0	0
6/25/2024 8:11	22001	BOHE_T1	0	33	33	0	0.12	0.12	0.29	0.29	0	0	0	0	0	0
6/25/2024 8:11	56803	BENV_T1	1	1	0	2.3	1.5	-0.8	0.42	0.5	0	0	0	0	0	0
6/25/2024 8:11	22003	BOHE_T1	4	54	50	0.48	0.27	-0.21	0	0	0	0	0	0	0	0
6/25/2024 8:11	22002	BOHE_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/25/2024 8:12	56802	BENV_T2	1	56	55	0.3	0.16	-0.14	-1.22	-1.19	0	0	0	0	0	0
6/25/2024 8:13	46206	DANV_T2	2	2	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
6/25/2024 8:13	56802	BENV_T2	1	56	55	0.3	0.16	-0.14	-1.22	-1.19	0	0	0	0	0	0
6/25/2024 8:13	56801	BENV_T1	13	22	9	0.62	0.91	0.29	0	0	0	0	0	0	0	0
6/25/2024 8:13	56803	BENV_T1	1	1	0	2.3	1.5	-0.8	0.42	0.5	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/25/2024 8:13	46203	DANV_T2	0	0	0	0	0	0	-1.88	-1.89	0	0	0	0	0	0
6/25/2024 8:14	46203	DANV_T2	0	0	0	0	0	0	-1.88	-1.89	0	0	0	0	0	0
6/25/2024 8:14	46206	DANV_T2	2	2	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
6/25/2024 8:16	64904	MILL_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
6/25/2024 8:18	46301	ROHR_T1	251	267	16	0.42	0.44	0.02	0	0	0	0	0	0	0	0
6/25/2024 8:18	46302	ROHR_T1	48	47	-1	0.33	0.35	0.02	0.21	0.22	0	0	0	0	0	0
6/25/2024 8:22	20403	ASHF_T2	0	1	1	0	0.1	0.1	1.28	1.4	0	0	0	0	0	0
6/25/2024 8:22	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/25/2024 8:27	53901	HALI_T2	1	1	0	0.7	1	0.3	-1.34	-1.32	0	0	0	0	0	0
6/25/2024 8:27	53903	HALI_T2	2	4	2	1.05	0.93	-0.12	0	0	0	0	0	0	0	0
6/25/2024 8:27	53902	HALI_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
6/25/2024 8:28	53902	HALI_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
6/25/2024 8:28	53901	HALI_T2	1	1	0	0.7	1	0.3	-2.69	-2.64	0	0	0	0	0	0
6/25/2024 8:28	53903	HALI_T2	2	4	2	1.05	0.93	-0.12	0	0	0	0	0	0	0	0
6/25/2024 8:29	53902	HALI_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
6/25/2024 8:29	53901	HALI_T2	1	1	0	0.7	1	0.3	-2.69	-2.64	0	0	0	0	0	0
6/25/2024 8:29	53903	HALI_T2	2	4	2	1.05	0.93	-0.12	0	0	0	0	0	0	0	0
6/25/2024 8:31	53901	HALI_T2	1	1	0	0.7	1	0.3	-1.34	-1.32	0	0	0	0	0	0
6/25/2024 8:31	53903	HALI_T2	2	4	2	1.2	0.98	-0.22	0	0	0	0	0	0	0	0
6/25/2024 8:31	53902	HALI_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
6/25/2024 8:33	50502	MECH_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
6/25/2024 8:33	50501	MECH_T1	4	4	0	1.55	1.5	-0.05	-0.89	-0.95	0	0	0	0	0	0
6/25/2024 8:38	58003	WCAR_T1	12	11	-1	0.31	0.34	0.03	0.27	0.27	1	1	0	600	600	0
6/25/2024 8:38	58001	WCAR_T1	4	5	1	1.6	1.3	-0.3	0	0	0	0	0	0	0	0
6/25/2024 8:39	22002	BOHE_T1	2	2	0	0.35	0.35	0	0.37	0.38	0	0	0	0	0	0
6/25/2024 8:39	22001	BOHE_T1	33	7	-26	0.12	0.19	0.07	0	0	0	0	0	0	0	0
6/25/2024 8:39	22003	BOHE_T1	54	36	-18	0.27	0.36	0.09	0	0	0	0	0	0	0	0
6/25/2024 8:41	46206	DANV_T2	2	10	8	1.25	1.4	0.15	5.13	5.45	2	2	0	2400	2400	0
6/25/2024 8:42	11507	FREE_T2	0	1	1	0	0	0	1.35	1.31	0	0	0	0	0	0
6/25/2024 8:45	47001	HUGH_T2	3	3	0	8.07	8.67	0.6	-0.69	-0.65	0	0	0	0	0	0
6/25/2024 8:47	47001	HUGH_T2	3	3	0	8.07	8.67	0.6	-0.69	-0.65	0	0	0	0	0	0
6/25/2024 8:47	58003	WCAR_T1	11	8	-3	0.34	0.43	0.09	0	0	0	0	0	0	0	0
6/25/2024 8:47	58001	WCAR_T1	5	5	0	1.3	1.26	-0.04	-0.02	-0.03	0	0	0	0	0	0
6/25/2024 8:50	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 8:50	41902	REED_T1	0	0	0	0	0	0	2.42	2.48	0	0	0	0	0	0
6/25/2024 8:51	67605	WARW_T1	0	0	0	0	0	0	-0.76	-0.73	0	0	0	0	0	0
6/25/2024 8:54	67605	WARW_T1	0	0	0	0	0	0	-1.52	-1.46	0	0	0	0	0	0
6/25/2024 8:55	22003	BOHE_T1	36	16	-20	0.34	0.46	0.12	0	0	0	0	0	0	0	0
6/25/2024 8:55	22002	BOHE_T1	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/25/2024 8:55	22001	BOHE_T1	7	1	-6	0.19	0.5	0.31	0.29	0.3	0	0	0	0	0	0
6/25/2024 9:01	21901	HUMB_T1	0	0	0	0	0	0	-2.15	-2.17	0	0	0	0	0	0
6/25/2024 9:03	25402	LAHA_T2	1	1	0	0.2	0.1	-0.1	-0.55	-0.5	0	0	0	0	0	0
6/25/2024 9:06	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 9:06	66504	SMAN_T2	0	0	0	0	0	0	-1.01	-1.02	0	1	1	0	1200	1200
6/25/2024 9:07	15703	TANN_T2	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
6/25/2024 9:07	15702	TANN_T2	0	0	0	0	0	0	-0.23	-0.19	0	0	0	0	0	0
6/25/2024 9:09	66504	SMAN_T2	0	0	0	0	0	0	-2.02	-2.05	2	2	0	2400	2400	0
6/25/2024 9:09	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 9:11	22002	BOHE_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/25/2024 9:11	22003	BOHE_T1	15	5	-10	0.49	1.18	0.69	0	0	0	0	0	0	0	0
6/25/2024 9:11	22001	BOHE_T1	1	1	0	0.5	0.5	0	0.3	0.3	0	0	0	0	0	0
6/25/2024 9:14	44801	EDAN_T2	0	2	2	0	0	0	0.71	0.65	0	0	0	0	0	0
6/25/2024 9:15	44801	EDAN_T2	1	2	1	1.6	0.4	-1.2	0.71	0.65	0	0	0	0	0	0
6/25/2024 9:17	61502	EPET_T1	0	0	0	0	0	0	-1.74	-1.31	0	0	0	0	0	0
6/25/2024 9:17	17002	RIRO_T2	3	3	0	0.6	0.63	0.03	0.82	0.83	0	0	0	0	0	0
6/25/2024 9:19	44801	EDAN_T2	1	2	1	1.6	0.4	-1.2	0.71	0.65	0	0	0	0	0	0
6/25/2024 9:20	67201	TEHI_T1	4	19	15	0.25	0.34	0.09	0	0	0	0	0	0	0	0
6/25/2024 9:20	67203	TEHI_T1	3	40	37	0.37	0.45	0.08	2.29	2.92	3	3	0	2100	2100	0
6/25/2024 9:23	67001	STHI_T2	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/25/2024 9:23	67002	STHI_T2	1	1	0	0.1	0.2	0.1	0.9	0.91	0	0	0	0	0	0
6/25/2024 9:24	50701	SMEC_T1	2	1	-1	0.35	0.7	0.35	-0.44	-0.36	0	0	0	0	0	0
6/25/2024 9:25	56802	BENV_T2	1	8	7	0.4	0.35	-0.05	-0.43	-0.89	0	0	0	0	0	0
6/25/2024 9:25	22001	BOHE_T1	1	1	0	0.5	0.4	-0.1	0.3	0.31	0	0	0	0	0	0
6/25/2024 9:25	22002	BOHE_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/25/2024 9:25	22003	BOHE_T1	5	4	-1	1.16	1.13	-0.03	0	0	0	0	0	0	0	0
6/25/2024 9:31	43304	WATS_T2	0	0	0	0	0	0	0.18	-0.37	1	0	-1	600	0	-600
6/25/2024 9:33	43202	MVIL_T2	93	93	0	0.57	0.65	0.08	0	0	0	0	0	0	0	0
6/25/2024 9:33	43201	MVIL_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
6/25/2024 9:34	43202	MVIL_T2	93	93	0	0.57	0.65	0.08	-0.46	-0.45	0	0	0	0	0	0
6/25/2024 9:34	48302	ORWI_T2	1	2	1	0.3	0.2	-0.1	0.18	-0.35	0	0	0	0	0	0
6/25/2024 9:35	48302	ORWI_T2	1	2	1	0.3	0.2	-0.1	0.18	-0.35	0	0	0	0	0	0
6/25/2024 9:35	57403	SPAN_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/25/2024 9:35	57401	SPAN_T1	1	1	0	1.6	2.9	1.3	-1.08	-1.02	1	1	0	600	600	0
6/25/2024 9:36	43202	MVIL_T2	93	93	0	0.57	0.65	0.08	-0.45	-0.44	0	0	0	0	0	0
6/25/2024 9:36	43201	MVIL_T2	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
6/25/2024 9:37	57403	SPAN_T1	2	0	-2	0.2	0	-0.2	0.37	0.4	0	0	0	0	0	0
6/25/2024 9:37	57401	SPAN_T1	1	1	0	1.6	2.9	1.3	0	0	0	0	0	0	0	0
6/25/2024 9:43	28704	HAML_T2	0	1	1	0	5	5	0.01	0.01	0	0	0	0	0	0
6/25/2024 9:43	28701	HAML_T2	1	4	3	0.2	0.68	0.48	0	0	0	0	0	0	0	0
6/25/2024 9:43	28703	HAML_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/25/2024 9:43	63401	HONY_T1	0	0	0	0	0	0	1.14	1.21	0	0	0	0	0	0
6/25/2024 9:44	63401	HONY_T1	0	0	0	0	0	0	1.14	1.21	0	0	0	0	0	0
6/25/2024 9:45	63401	HONY_T1	0	0	0	0	0	0	1.14	1.21	0	0	0	0	0	0
6/25/2024 9:48	43304	WATS_T2	0	0	0	0	0	0	-0.37	-0.42	0	0	0	0	0	0
6/25/2024 9:49	56501	ROCK_T2	1	5	4	0.9	0.35	-0.55	-0.99	-0.97	0	0	0	0	0	0
6/25/2024 9:50	56501	ROCK_T2	1	5	4	0.9	0.35	-0.55	-0.99	-0.97	0	0	0	0	0	0
6/25/2024 9:51	56501	ROCK_T2	1	5	4	0.9	0.35	-0.55	-1.98	-1.93	0	0	0	0	0	0
6/25/2024 9:52	56501	ROCK_T2	1	5	4	0.9	0.35	-0.55	-1.93	-1.88	0	0	0	0	0	0
6/25/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.1	0.52	0	0	0	0	0	0
6/25/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.23	0.26	0	0	0	0	0	0
6/25/2024 10:00	65701	BVIL_T1	0	0	0	0	0	0	-0.82	-0.66	0	0	0	0	0	0
6/25/2024 10:00	58003	WCAR_T1	4	2	-2	0.65	0.75	0.1	0	0	0	0	0	0	0	0
6/25/2024 10:00	67804	WLAN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/25/2024 10:00	58001	WCAR_T1	5	5	0	0.92	0.78	-0.14	0.14	0.09	0	0	0	0	0	0
6/25/2024 10:00	67801	WLAN_T1	1	1	0	0.1	0	-0.1	0.45	0.46	0	0	0	0	0	0
6/25/2024 10:00	40505	CRES_T1	3	3	0	4.43	4.23	-0.2	0.66	0.68	0	0	0	0	0	0
6/25/2024 10:00	67502	WEWI_T2	1	1	0	0.1	0.2	0.1	-0.76	-0.78	1	1	0	900	900	0
6/25/2024 10:00	40101	HUNT_T2	5	7	2	1.5	0.65	-0.85	0.07	0.08	0	0	0	0	0	0
6/25/2024 10:00	41902	REED_T1	0	0	0	0	0	0	2.39	2.37	0	0	0	0	0	0
6/25/2024 10:05	56801	BENV_T1	13	4	-9	0.57	0.3	-0.27	0	0	0	0	0	0	0	0
6/25/2024 10:05	56803	BENV_T1	1	2	1	2.3	2.7	0.4	0.67	0.71	0	0	0	0	0	0
6/25/2024 10:08	43304	WATS_T2	0	0	0	0	0	0	-0.39	-0.33	0	0	0	0	0	0
6/25/2024 10:09	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/25/2024 10:09	20401	ASHF_T2	1	4	3	0.1	0.6	0.5	0.28	0.29	0	0	0	0	0	0
6/25/2024 10:10	43402	BENT_T1	1	1	0	0.1	0.8	0.7	-2.33	-2.31	3	3	0	2700	2700	0
6/25/2024 10:10	67804	WLAN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/25/2024 10:10	67803	WLAN_T1	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
6/25/2024 10:10	67801	WLAN_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/25/2024 10:11	67803	WLAN_T1	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
6/25/2024 10:11	67804	WLAN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/25/2024 10:11	46203	DANV_T2	0	1	1	0	0.4	0.4	-1.73	-1.76	0	0	0	0	0	0
6/25/2024 10:11	46206	DANV_T2	3	1	-2	1.23	1.9	0.67	0	0	0	0	0	0	0	0
6/25/2024 10:11	67801	WLAN_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/25/2024 10:11	20401	ASHF_T2	1	4	3	0.1	0.6	0.5	0	0	0	0	0	0	0	0
6/25/2024 10:11	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	1.54	1.51	0	0	0	0	0	0
6/25/2024 10:12	11507	FREE_T2	3	1	-2	0.63	0.8	0.17	0.88	0.96	0	0	0	0	0	0
6/25/2024 10:12	20401	ASHF_T2	1	4	3	0.1	0.6	0.5	0	0	0	0	0	0	0	0
6/25/2024 10:12	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	1.54	1.51	0	0	0	0	0	0
6/25/2024 10:12	46206	DANV_T2	3	1	-2	1.23	1.9	0.67	0	0	0	0	0	0	0	0
6/25/2024 10:12	58003	WCAR_T1	4	2	-2	0.65	0.75	0.1	0.37	0.39	1	1	0	600	600	0
6/25/2024 10:12	58001	WCAR_T1	5	5	0	0.92	0.78	-0.14	0	0	0	0	0	0	0	0
6/25/2024 10:12	46203	DANV_T2	0	1	1	0	0.4	0.4	-1.73	-1.76	0	0	0	0	0	0
6/25/2024 10:13	46206	DANV_T2	3	1	-2	1.23	1.9	0.67	0	0	0	0	0	0	0	0
6/25/2024 10:13	46203	DANV_T2	0	1	1	0	0.4	0.4	-1.73	-1.76	0	0	0	0	0	0
6/25/2024 10:14	46206	DANV_T2	3	1	-2	1.23	1.9	0.67	0	0	0	0	0	0	0	0
6/25/2024 10:14	23201	HIRU_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/25/2024 10:14	23203	HIRU_T2	0	1	1	0	0.2	0.2	0.07	0.08	0	0	0	0	0	0
6/25/2024 10:14	46203	DANV_T2	0	1	1	0	0.4	0.4	-1.73	-1.76	0	0	0	0	0	0
6/25/2024 10:15	23201	HIRU_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/25/2024 10:15	23202	HIRU_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
6/25/2024 10:15	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/25/2024 10:15	21901	HUMB_T1	0	0	0	0	0	0	-2.11	-2.09	0	0	0	0	0	0
6/25/2024 10:15	46206	DANV_T2	1	1	0	1.9	2.3	0.4	0	0	0	0	0	0	0	0
6/25/2024 10:15	46203	DANV_T2	1	2	1	0.4	0.35	-0.05	-1.73	-1.76	0	0	0	0	0	0
6/25/2024 10:15	23203	HIRU_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/25/2024 10:17	28702	HAML_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
6/25/2024 10:17	28703	HAML_T2	1	3	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/25/2024 10:17	43202	MVIL_T2	91	91	0	0.6	0.62	0.02	-0.43	-0.42	0	0	0	0	0	0
6/25/2024 10:17	28701	HAML_T2	4	3	-1	0.58	0.67	0.09	0	0	0	0	0	0	0	0
6/25/2024 10:18	43202	MVIL_T2	91	91	0	0.6	0.62	0.02	-0.43	-0.42	0	0	0	0	0	0
6/25/2024 10:18	47403	PENS_T1	1	1	0	2	2	0	0.03	0	0	0	0	0	0	0
6/25/2024 10:18	47401	PENS_T1	1	3	2	2.6	1.3	-1.3	2.84	2.89	0	0	0	0	0	0
6/25/2024 10:19	46302	ROHR_T1	6	6	0	1.4	1.57	0.17	0.51	0.53	0	0	0	0	0	0
6/25/2024 10:19	66501	SMAN_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
6/25/2024 10:19	66504	SMAN_T2	0	0	0	0	0	0	-0.79	-0.81	1	1	0	1200	1200	0
6/25/2024 10:19	46301	ROHR_T1	123	143	20	0.26	0.28	0.02	0.34	0.34	0	0	0	0	0	0
6/25/2024 10:19	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/25/2024 10:20	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
6/25/2024 10:20	17002	RIRO_T2	2	2	0	0.9	0.85	-0.05	0.85	0.96	0	0	0	0	0	0
6/25/2024 10:20	15702	TANN_T2	0	0	0	0	0	0	-0.06	-0.1	0	0	0	0	0	0
6/25/2024 10:21	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
6/25/2024 10:21	15702	TANN_T2	0	0	0	0	0	0	-0.06	-0.1	0	0	0	0	0	0
6/25/2024 10:21	67605	WARW_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
6/25/2024 10:21	67603	WARW_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
6/25/2024 10:21	67601	WARW_T2	0	0	0	0	0	0	-0.06	-0.03	0	0	0	0	0	0
6/25/2024 10:21	48302	ORWI_T2	2	2	0	0.3	0.25	-0.05	-0.3	-0.27	0	0	0	0	0	0
6/25/2024 10:22	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/25/2024 10:22	47401	PENS_T1	1	3	2	2.6	1.3	-1.3	2.89	2.94	0	0	0	0	0	0
6/25/2024 10:22	46302	ROHR_T1	6	6	0	1.4	1.57	0.17	0	0	0	0	0	0	0	0
6/25/2024 10:22	66504	SMAN_T2	0	0	0	0	0	0	-1.63	-1.68	2	2	0	2400	2400	0
6/25/2024 10:22	60305	TWVA_T2	0	0	0	0	0	0	-0.86	-0.81	2	2	0	2400	2400	0
6/25/2024 10:22	66501	SMAN_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
6/25/2024 10:22	44301	BEAV_T2	2	3	1	0.65	0.25	-0.4	0.62	0.31	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/25/2024 10:22	46301	ROHR_T1	123	143	20	0.26	0.28	0.02	0.34	0.35	0	0	0	0	0	0
6/25/2024 10:22	47403	PENS_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
6/25/2024 10:22	67605	WARW_T1	1	1	0	0.8	1.2	0.4	-0.79	-0.79	0	0	0	0	0	0
6/25/2024 10:23	67203	TEHI_T1	1	6	5	0.3	0.55	0.25	0	0	0	0	0	0	0	0
6/25/2024 10:23	67605	WARW_T1	1	1	0	0.8	1.2	0.4	-0.79	-0.79	0	0	0	0	0	0
6/25/2024 10:23	47403	PENS_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
6/25/2024 10:23	44301	BEAV_T2	2	3	1	0.65	0.25	-0.4	1.24	0.61	4	4	0	3000	3000	0
6/25/2024 10:23	47401	PENS_T1	1	3	2	2.6	1.3	-1.3	1.44	1.47	0	0	0	0	0	0
6/25/2024 10:23	67603	WARW_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
6/25/2024 10:23	67903	WNHO_T1	0	0	0	0	0	0	1.24	1.3	1	1	0	1200	1200	0
6/25/2024 10:23	67201	TEHI_T1	19	3	-16	0.81	0	-0.81	0.65	1.29	1	1	0	600	600	0
6/25/2024 10:23	46302	ROHR_T1	6	6	0	1.4	1.57	0.17	0	0	0	0	0	0	0	0
6/25/2024 10:23	56501	ROCK_T2	4	4	0	0.35	0.35	0	-0.89	-0.84	0	0	0	0	0	0
6/25/2024 10:23	46301	ROHR_T1	123	143	20	0.26	0.28	0.02	0.34	0.35	0	0	0	0	0	0
6/25/2024 10:24	67605	WARW_T1	1	1	0	0.8	1.2	0.4	-0.79	-0.79	0	0	0	0	0	0
6/25/2024 10:25	21203	ECAR_T1	1	1	0	0.2	0.2	0	-0.01	0.01	0	0	0	0	0	0
6/25/2024 10:25	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
6/25/2024 10:25	15702	TANN_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
6/25/2024 10:25	56802	BENV_T2	5	6	1	0.3	0.25	-0.05	-1.01	-0.99	0	0	0	0	0	0
6/25/2024 10:25	44301	BEAV_T2	2	3	1	0.65	0.25	-0.4	0.62	0.31	2	2	0	1500	1500	0
6/25/2024 10:26	46203	DANV_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
6/25/2024 10:26	46206	DANV_T2	1	1	0	1.9	2.3	0.4	4.24	3.36	2	4	2	2400	4200	1800
6/25/2024 10:26	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/25/2024 10:26	56802	BENV_T2	5	6	1	0.3	0.25	-0.05	-2.02	-1.98	0	0	0	0	0	0
6/25/2024 10:27	56803	BENV_T1	2	2	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
6/25/2024 10:27	56802	BENV_T2	5	6	1	0.3	0.25	-0.05	-2.02	-1.98	0	0	0	0	0	0
6/25/2024 10:27	56801	BENV_T1	4	3	-1	0.25	0.33	0.08	-0.55	-0.52	1	1	0	600	600	0
6/25/2024 10:27	44301	BEAV_T2	2	3	1	0.65	0.25	-0.4	0.62	0.31	2	2	0	1500	1500	0
6/25/2024 10:28	56802	BENV_T2	5	6	1	0.3	0.25	-0.05	-2.02	-1.98	0	0	0	0	0	0
6/25/2024 10:28	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/25/2024 10:28	46206	DANV_T2	1	1	0	1.9	2.3	0.4	0	0	0	0	0	0	0	0
6/25/2024 10:28	46203	DANV_T2	1	2	1	0.4	0.35	-0.05	-1.76	-1.7	0	0	0	0	0	0
6/25/2024 10:28	40101	HUNT_T2	2	62	60	0.65	0.38	-0.27	0.08	0.09	0	0	0	0	0	0
6/25/2024 10:29	26401	INOR_T1	1	2	1	6.8	3.65	-3.15	0	0	0	0	0	0	0	0
6/25/2024 10:29	21206	ECAR_T2	1	1	0	7.4	7.5	0.1	0.55	0.51	0	0	0	0	0	0
6/25/2024 10:29	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 10:29	26402	INOR_T1	0	0	0	0	0	0	-1.48	-1.53	1	1	0	600	600	0
6/25/2024 10:30	47001	HUGH_T2	3	3	0	8.33	8.13	-0.2	-0.61	-0.51	0	0	0	0	0	0
6/25/2024 10:30	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 10:30	21206	ECAR_T2	1	1	0	7.5	7	-0.5	0.55	0.51	0	0	0	0	0	0
6/25/2024 10:31	43202	MVIL_T2	88	90	2	0.57	0.58	0.01	0	0	0	0	0	0	0	0
6/25/2024 10:31	43201	MVIL_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
6/25/2024 10:32	47001	HUGH_T2	3	3	0	8.33	8.13	-0.2	-0.61	-0.51	0	0	0	0	0	0
6/25/2024 10:33	40601	PIGR_T1	2	7	5	0.15	0.3	0.15	0	0	0	0	0	0	0	0
6/25/2024 10:33	40101	HUNT_T2	6	70	64	0.4	0.46	0.06	0.08	0.09	0	0	0	0	0	0
6/25/2024 10:33	40602	PIGR_T1	0	0	0	0	0	0	0.49	0.57	0	0	0	0	0	0
6/25/2024 10:34	43202	MVIL_T2	88	90	2	0.57	0.58	0.01	0	0	0	0	0	0	0	0
6/25/2024 10:34	64101	REFR_T1	0	0	0	0	0	0	0.47	0.56	0	0	0	0	0	0
6/25/2024 10:34	40602	PIGR_T1	0	0	0	0	0	0	0.97	1.13	0	0	0	0	0	0
6/25/2024 10:34	13503	MCMI_T2	1	1	0	0.8	0.6	-0.2	0.11	0.11	0	0	0	0	0	0
6/25/2024 10:34	43304	WATS_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
6/25/2024 10:34	43201	MVIL_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
6/25/2024 10:34	40601	PIGR_T1	2	7	5	0.15	0.3	0.15	0.27	0.35	0	0	0	0	0	0
6/25/2024 10:36	66504	SMAN_T2	0	0	0	0	0	0	-0.84	-0.66	1	1	0	1200	1200	0
6/25/2024 10:36	66502	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/25/2024 10:36	66501	SMAN_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
6/25/2024 10:36	64101	REFR_T1	0	0	0	0	0	0	0.85	0.76	0	0	0	0	0	0
6/25/2024 10:36	56501	ROCK_T2	4	2	-2	0.35	0.6	0.25	-0.89	-0.84	0	0	0	0	0	0
6/25/2024 10:36	43304	WATS_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
6/25/2024 10:37	56501	ROCK_T2	4	2	-2	0.35	0.6	0.25	-0.84	-0.91	0	0	0	0	0	0
6/25/2024 10:37	64101	REFR_T1	0	0	0	0	0	0	0.56	0.5	0	0	0	0	0	0
6/25/2024 10:37	66501	SMAN_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
6/25/2024 10:37	66502	SMAN_T2	1	1	0	0.2	0.2	0	0.67	0.69	0	0	0	0	0	0
6/25/2024 10:38	56501	ROCK_T2	4	2	-2	0.35	0.6	0.25	-0.84	-0.91	0	0	0	0	0	0
6/25/2024 10:38	58001	WCAR_T1	5	5	0	0.72	0.68	-0.04	0	0	0	0	0	0	0	0
6/25/2024 10:38	58003	WCAR_T1	1	3	2	1.3	0.73	-0.57	0.41	0.43	1	1	0	600	600	0
6/25/2024 10:39	44301	BEAV_T2	2	5	3	0.6	0.23	-0.37	0.31	0.35	2	2	0	1500	1500	0
6/25/2024 10:39	20401	ASHF_T2	4	5	1	0.75	0.98	0.23	0	0	0	0	0	0	0	0
6/25/2024 10:39	20403	ASHF_T2	0	2	2	0	0	0	1.58	1.62	0	0	0	0	0	0
6/25/2024 10:39	29402	BELT_T1	1	1	0	7.2	7.3	0.1	0	0	0	0	0	0	0	0
6/25/2024 10:39	67203	TEHI_T1	2	6	4	0.55	0.5	-0.05	2.26	2.26	4	4	0	3000	3000	0
6/25/2024 10:39	67201	TEHI_T1	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
6/25/2024 10:39	56501	ROCK_T2	4	2	-2	0.35	0.6	0.25	-0.84	-0.91	0	0	0	0	0	0
6/25/2024 10:39	29401	BELT_T1	0	1	1	0	0.5	0.5	0	0	1	1	0	900	900	0
6/25/2024 10:39	64101	REFR_T1	0	0	0	0	0	0	0.85	0.76	0	0	0	0	0	0
6/25/2024 10:42	29401	BELT_T1	0	1	1	0	0.5	0.5	0	0	1	1	0	900	900	0
6/25/2024 10:42	29402	BELT_T1	1	1	0	7.2	7.3	0.1	0	0	0	0	0	0	0	0
6/25/2024 10:43	20601	GRWO_T2	2	3	1	0.1	0.33	0.23	1.05	0.96	0	0	0	0	0	0
6/25/2024 10:43	29402	BELT_T1	1	1	0	7.2	7.3	0.1	0	0	0	0	0	0	0	0
6/25/2024 10:43	29401	BELT_T1	0	1	1	0	0.5	0.5	0	0	1	1	0	900	900	0
6/25/2024 10:49	48302	ORWI_T2	1	2	1	0.2	0.15	-0.05	-0.25	-0.23	0	0	0	0	0	0
6/25/2024 10:50	64101	REFR_T1	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
6/25/2024 10:50	58402	MORO_T1	0	0	0	0	0	0	-0.59	-0.58	3	3	0	2400	2400	0
6/25/2024 10:52	13303	ORVI_T1	0	0	0	0	0	0	0.27	0.33	0	0	0	0	0	0
6/25/2024 10:52	60201	ATGL_T2	0	0	0	0	0	0	0.19	0.33	2	2	0	900	900	0
6/25/2024 10:53	64101	REFR_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
6/25/2024 10:54	56802	BENV_T2	1	1	0	0.6	0.5	-0.1	-0.97	-0.95	0	0	0	0	0	0
6/25/2024 10:56	53601	DALM_T2	0	1	1	0	0.2	0.2	-0.26	-0.26	1	1	0	900	900	0
6/25/2024 10:56	22003	BOHE_T1	3	3	0	1.53	1.67	0.14	0.03	0.04	0	0	0	0	0	0
6/25/2024 10:56	61301	EARL_T1	0	0	0	0	0	0	-1.09	-1.19	2	2	0	1800	1800	0
6/25/2024 10:56	22001	BOHE_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/25/2024 10:57	56803	BENV_T1	1	4	3	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/25/2024 10:57	56801	BENV_T1	2	1	-1	0.45	0.6	0.15	-0.5	-0.48	1	1	0	600	600	0
6/25/2024 10:58	61301	EARL_T1	0	0	0	0	0	0	-1.09	-1.19	2	2	0	1800	1800	0
6/25/2024 10:59	25402	LAHA_T2	0	1	1	0	0.1	0.1	-0.35	-0.39	0	0	0	0	0	0
6/25/2024 11:00	52001	LING_T1	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
6/25/2024 11:00	52004	LING_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/25/2024 11:00	52003	LING_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 11:00	20601	GRWO_T2	3	78	75	0.57	0.45	-0.12	0.96	0.98	0	0	0	0	0	0
6/25/2024 11:00	52002	LING_T2	0	0	0	0	0	0	0.56	0.6	0	0	0	0	0	0
6/25/2024 11:01	46801	HEPB_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
6/25/2024 11:01	46803	HEPB_T2	1	1	0	0.4	1	0.6	0.64	0.65	0	0	0	0	0	0
6/25/2024 11:02	52002	LING_T2	0	0	0	0	0	0	1.11	1.2	0	0	0	0	0	0
6/25/2024 11:02	52004	LING_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/25/2024 11:03	22001	BOHE_T1	1	1	0	0.2	0.4	0.2	0.33	0.34	0	0	0	0	0	0
6/25/2024 11:03	22003	BOHE_T1	3	3	0	1.67	1.6	-0.07	0	0	0	0	0	0	0	0
6/25/2024 11:03	43301	WATS_T2	0	0	0	0	0	0	-0.39	-0.38	1	1	0	900	900	0
6/25/2024 11:04	66701	STRA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/25/2024 11:04	66703	STRA_T1	0	0	0	0	0	0	0.53	0.58	0	0	0	0	0	0
6/25/2024 11:05	52004	LING_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/25/2024 11:05	52002	LING_T2	0	0	0	0	0	0	0.56	0.6	0	0	0	0	0	0
6/25/2024 11:07	66701	STRA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/25/2024 11:07	66703	STRA_T1	0	0	0	0	0	0	0.58	0.63	0	0	0	0	0	0
6/25/2024 11:08	64101	REFR_T1	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
6/25/2024 11:11	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/25/2024 11:12	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 11:12	21206	ECAR_T2	1	1	0	6.6	6.7	0.1	0.54	0.49	0	0	0	0	0	0
6/25/2024 11:15	61501	EPET_T2	1	1	0	6.3	5.8	-0.5	0	0	0	0	0	0	0	0
6/25/2024 11:15	64203	KINZ_T1	1	1	0	0.3	0.2	-0.1	0.47	0.46	3	3	0	2100	2100	0
6/25/2024 11:15	64204	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/25/2024 11:15	61504	EPET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 11:16	12701	MACU_T1	1	1	0	0.1	0	-0.1	0.32	0.33	0	0	0	0	0	0
6/25/2024 11:16	26704	HEMI_T2	0	0	0	0	0	0	-0.48	-0.47	1	1	0	1200	1200	0
6/25/2024 11:16	25501	MADI_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
6/25/2024 11:16	25503	MADI_T1	8	37	29	0.23	0.21	-0.02	-0.77	-0.76	0	0	0	0	0	0
6/25/2024 11:16	25502	MADI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/25/2024 11:17	24902	WHHA_T1	5	1	-4	3.42	0	-3.42	0.71	0.7	0	0	0	0	0	0
6/25/2024 11:17	56501	ROCK_T2	1	1	0	0.7	1.3	0.6	-0.87	-0.82	0	0	0	0	0	0
6/25/2024 11:18	16204	POFA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/25/2024 11:18	16202	POFA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/25/2024 11:18	12701	MACU_T1	1	1	0	0.1	0	-0.1	0.32	0.33	0	0	0	0	0	0
6/25/2024 11:18	65001	NEFF_T2	0	0	0	0	0	0	0.32	0.23	1	1	0	1200	1200	0
6/25/2024 11:19	40601	PIGR_T1	3	5	2	0.53	0.42	-0.11	0	0	0	0	0	0	0	0
6/25/2024 11:19	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 11:19	40603	PIGR_T1	0	0	0	0	0	0	0.64	0.67	0	0	0	0	0	0
6/25/2024 11:20	24902	WHHA_T1	5	1	-4	3.42	0	-3.42	0.71	0.7	0	0	0	0	0	0
6/25/2024 11:22	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 11:22	44601	SALE_T2	0	0	0	0	0	0	0.7	0.57	2	2	0	1200	1200	0
6/25/2024 11:22	66504	SMAN_T2	0	0	0	0	0	0	-0.61	-0.64	1	1	0	1200	1200	0
6/25/2024 11:25	46206	DANV_T2	2	3	1	1.6	2.5	0.9	0	0	0	0	0	0	0	0
6/25/2024 11:25	46203	DANV_T2	1	1	0	0.2	0.2	0	-1.62	-1.59	0	0	0	0	0	0
6/25/2024 11:26	60201	ATGL_T2	0	0	0	0	0	0	0.13	0.28	2	2	0	900	900	0
6/25/2024 11:27	22001	BOHE_T1	1	1	0	0.2	0.4	0.2	0.34	0.34	0	0	0	0	0	0
6/25/2024 11:27	22003	BOHE_T1	3	3	0	1.57	1.97	0.4	0	0	0	0	0	0	0	0
6/25/2024 11:28	22001	BOHE_T1	1	1	0	0.2	0.4	0.2	0.34	0.34	0	0	0	0	0	0
6/25/2024 11:28	22003	BOHE_T1	3	3	0	1.57	1.97	0.4	0	0	0	0	0	0	0	0
6/25/2024 11:29	47203	FAXO_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
6/25/2024 11:29	47202	FAXO_T2	0	0	0	0	0	0	-2.01	-2	0	0	0	0	0	0
6/25/2024 11:29	46802	HEPB_T1	1	1	0	0.7	0.3	-0.4	0.03	0.05	0	0	0	0	0	0
6/25/2024 11:30	46203	DANV_T2	1	0	-1	0.2	0	-0.2	-1.62	-1.59	0	0	0	0	0	0
6/25/2024 11:30	52402	GRPA_T2	3	3	0	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
6/25/2024 11:30	52404	GRPA_T2	0	0	0	0	0	0	0.94	0.36	0	0	0	0	0	0
6/25/2024 11:30	46206	DANV_T2	2	4	2	1.55	1.4	-0.15	0	0	0	0	0	0	0	0
6/25/2024 11:30	28403	HART_T2	0	0	0	0	0	0	-0.69	-0.68	1	1	0	900	900	0
6/25/2024 11:30	52403	GRPA_T2	2	4	2	0.45	0.53	0.08	0	0	0	0	0	0	0	0
6/25/2024 11:33	52402	GRPA_T2	3	3	0	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
6/25/2024 11:33	52404	GRPA_T2	0	0	0	0	0	0	0.94	0.36	0	0	0	0	0	0
6/25/2024 11:33	13503	MCMI_T2	13	233	220	0.49	0.69	0.2	0.13	-0.74	0	0	0	0	0	0
6/25/2024 11:33	52403	GRPA_T2	2	4	2	0.45	0.53	0.08	0	0	0	0	0	0	0	0
6/25/2024 11:34	13503	MCMI_T2	13	233	220	0.49	0.69	0.2	0.13	-0.74	0	0	0	0	0	0
6/25/2024 11:35	64204	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/25/2024 11:35	58401	MORO_T1	0	0	0	0	0	0	-2.45	-2.4	4	4	0	2400	2400	0
6/25/2024 11:35	58402	MORO_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/25/2024 11:35	55105	WERT_T1	0	0	0	0	0	0	0.25	0.3	1	1	0	900	900	0
6/25/2024 11:35	65901	SAKR_T2	1	1	0	6.4	6.6	0.2	-0.39	-0.47	2	2	0	1500	1500	0
6/25/2024 11:35	13502	MCMI_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/25/2024 11:35	64203	KINZ_T1	1	1	0	0.6	0.2	-0.4	0.46	0.41	3	3	0	2100	2100	0
6/25/2024 11:36	64204	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/25/2024 11:36	58401	MORO_T1	0	0	0	0	0	0	-1.23	-1.2	2	2	0	1200	1200	0
6/25/2024 11:36	58402	MORO_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/25/2024 11:36	64203	KINZ_T1	1	1	0	0.6	0.2	-0.4	0.46	0.41	3	3	0	2100	2100	0
6/25/2024 11:37	16302	ALPA_T2	0	3	3	0	0.2	0.2	0.09	0.07	0	0	0	0	0	0
6/25/2024 11:38	16402	MOPO_T1	0	14	14	0	0.2	0.2	0	0	0	0	0	0	0	0
6/25/2024 11:38	16302	ALPA_T2	0	3	3	0	0.2	0.2	0.09	0.07	0	0	0	0	0	0
6/25/2024 11:38	16406	MOPO_T1	0	0	0	0	0	0	-1.15	-1.07	2	2	0	2100	2100	0
6/25/2024 11:39	16302	ALPA_T2	0	3	3	0	0.2	0.2	0.09	0.07	0	0	0	0	0	0
6/25/2024 11:40	16301	ALPA_T1	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
6/25/2024 11:40	65901	SAKR_T2	1	1	0	6.4	6.6	0.2	-0.47	-0.5	2	2	0	1500	1500	0
6/25/2024 11:40	29401	BELT_T1	7	4	-3	0.3	0.3	0	0	0	0	0	0	0	0	0
6/25/2024 11:40	29402	BELT_T1	7	7	0	1.64	1.71	0.07	0	0	0	0	0	0	0	0
6/25/2024 11:42	16302	ALPA_T2	0	3	3	0	0.2	0.2	0.09	0.07	0	0	0	0	0	0
6/25/2024 11:43	20601	GRWO_T2	78	81	3	0.66	0.57	-0.09	1.01	1.02	0	0	0	0	0	0
6/25/2024 11:45	15601	NSTR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/25/2024 11:45	15603	NSTR_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
6/25/2024 11:47	52004	LING_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/25/2024 11:47	45801	HEGI_T1	0	1	1	0	0	0	0.36	0.34	1	1	0	900	900	0
6/25/2024 11:47	52002	LING_T2	0	0	0	0	0	0	0.63	0.67	0	0	0	0	0	0
6/25/2024 11:48	45802	HEGI_T2	16	35	19	0.53	0.6	0.07	0.09	-0.22	2	2	0	1200	1200	0
6/25/2024 11:49	56501	ROCK_T2	1	1	0	1.5	1.1	-0.4	-0.77	-0.74	0	0	0	0	0	0
6/25/2024 11:50	60502	NMAN_T2	0	0	0	0	0	0	0.52	0.55	0	0	0	0	0	0
6/25/2024 11:50	65604	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/25/2024 11:50	60501	NMAN_T2	3	3	0	4.13	4.2	0.07	0	0	0	0	0	0	0	0
6/25/2024 11:50	65603	QVIL_T2	0	0	0	0	0	0	-0.07	-0.15	0	0	0	0	0	0
6/25/2024 11:52	59202	THOM_T1	1	0	-1	2.3	0	-2.3	0	0	0	0	0	0	0	0
6/25/2024 11:55	59202	THOM_T1	1	0	-1	2.3	0	-2.3	0	0	0	0	0	0	0	0
6/25/2024 11:59	63401	HONY_T1	0	0	0	0	0	0	0.91	0.84	1	1	0	600	600	0
6/25/2024 11:59	44801	EDAN_T2	1	2	1	0.5	0.5	0	0.78	0.78	0	0	0	0	0	0
6/25/2024 12:01	63401	HONY_T1	0	0	0	0	0	0	1.82	1.68	2	2	0	1200	1200	0
6/25/2024 12:02	26401	INOR_T1	2	5	3	3.3	1.82	-1.48	1.36	0.9	0	0	0	0	0	0
6/25/2024 12:02	43301	WATS_T2	0	0	0	0	0	0	-0.33	-0.31	1	1	0	900	900	0
6/25/2024 12:04	13503	MCMI_T2	215	226	11	0.5	0.54	0.04	-0.73	-0.73	0	0	0	0	0	0
6/25/2024 12:04	64101	REFR_T1	3	3	0	0.73	0.37	-0.36	0.35	0.37	0	0	0	0	0	0
6/25/2024 12:06	67605	WARW_T1	1	1	0	0.8	0.8	0	-0.64	-0.81	0	0	0	0	0	0
6/25/2024 12:07	54602	SUMM_T2	0	0	0	0	0	0	-2.67	-2.6	1	1	0	600	600	0
6/25/2024 12:07	45802	HEGI_T2	35	29	-6	0.6	0.62	0.02	-0.08	-0.05	2	2	0	1200	1200	0
6/25/2024 12:08	60801	BUCK_T1	0	0	0	0	0	0	-0.47	-0.47	1	1	0	600	600	0
6/25/2024 12:08	67605	WARW_T1	1	1	0	0.8	0.8	0	-0.64	-0.81	0	0	0	0	0	0
6/25/2024 12:08	54505	ENOL_T2	0	0	0	0	0	0	-0.93	-0.91	1	1	0	600	600	0
6/25/2024 12:09	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 12:10	61801	EELI_T2	0	0	0	0	0	0	-0.17	-0.16	1	1	0	600	600	0
6/25/2024 12:11	61803	EELI_T2	0	0	0	0	0	0	1.38	1.42	0	0	0	0	0	0
6/25/2024 12:13	44801	EDAN_T2	1	2	1	0.5	0.45	-0.05	1.57	1.57	0	0	0	0	0	0
6/25/2024 12:14	44801	EDAN_T2	1	2	1	0.5	0.45	-0.05	0.78	0.79	0	0	0	0	0	0
6/25/2024 12:16	25603	ARRO_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
6/25/2024 12:17	12402	MILF_T1	144	140	-4	1.07	0.94	-0.13	1.15	1.13	0	0	0	0	0	0
6/25/2024 12:18	25603	ARRO_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
6/25/2024 12:18	55102	WERT_T2	6	13	7	0.45	0.65	0.2	-0.64	-0.69	2	2	0	1200	1200	0
6/25/2024 12:18	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 12:19	55102	WERT_T2	6	13	7	0.45	0.65	0.2	-0.64	-0.69	2	2	0	1200	1200	0
6/25/2024 12:19	64201	KINZ_T1	0	4	4	0	0.2	0.2	-0.17	-0.03	4	4	0	2100	2100	0
6/25/2024 12:19	11102	EGYP_T1	1	3	2	1.3	1.03	-0.27	0.28	0.3	0	0	0	0	0	0
6/25/2024 12:19	64203	KINZ_T1	1	2	1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
6/25/2024 12:19	64204	KINZ_T1	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
6/25/2024 12:19	11104	EGYP_T1	5	8	3	0.18	0.74	0.56	0	0	0	0	0	0	0	0
6/25/2024 12:21	67605	WARW_T1	1	1	0	0.4	1	0.6	-0.81	-0.76	0	0	0	0	0	0
6/25/2024 12:22	59101	WALK_T2	0	0	0	0	0	0	0.31	0.55	0	0	0	0	0	0
6/25/2024 12:22	59102	WALK_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/25/2024 12:23	67605	WARW_T1	1	1	0	0.4	1	0.6	-0.81	-0.76	0	0	0	0	0	0
6/25/2024 12:23	67605	WARW_T1	1	1	0	0.4	1	0.6	-0.81	-0.76	0	0	0	0	0	0
6/25/2024 12:23	67605	WARW_T1	1	1	0	0.4	1	0.6	-0.81	-0.76	0	0	0	0	0	0
6/25/2024 12:23	67605	WARW_T1	1	1	0	0.4	1	0.6	-0.81	-0.76	0	0	0	0	0	0
6/25/2024 12:24	60201	ATGL_T2	0	0	0	0	0	0	0.33	0.33	2	2	0	900	900	0
6/25/2024 12:28	44801	EDAN_T2	2	2	0	0.45	0.85	0.4	0.79	0.79	0	0	0	0	0	0
6/25/2024 12:30	61505	EPET_T1	0	0	0	0	0	0	0.9	0.94	0	0	0	0	0	0
6/25/2024 12:31	52002	LING_T2	2	15	13	0.45	0	-0.45	0.76	0.76	0	0	0	0	0	0
6/25/2024 12:31	52004	LING_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
6/25/2024 12:35	53502	EVIL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/25/2024 12:35	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	0.64	0.29	1	1	0	200	200	0
6/25/2024 12:37	14103	TRUM_T2	2	4	2	1.6	0	-1.6	0	0	0	0	0	0	0	0
6/25/2024 12:37	49803	UNIV_T1	1	1	0	0.7	0.1	-0.6	-0.5	-0.49	0	0	0	0	0	0
6/25/2024 12:37	14101	TRUM_T2	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
6/25/2024 12:38	60305	WVA_T2	0	0	0	0	0	0	-1.49	-1.52	2	2	0	2400	2400	0
6/25/2024 12:39	46005	BERW_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
6/25/2024 12:39	46001	BERW_T1	0	0	0	0	0	0	0.35	0.79	0	0	0	0	0	0
6/25/2024 12:40	14103	TRUM_T2	2	4	2	1.6	0	-1.6	0	0	0	0	0	0	0	0
6/25/2024 12:40	14101	TRUM_T2	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
6/25/2024 12:42	46001	BERW_T1	0	0	0	0	0	0	0.12	0.26	0	0	0	0	0	0
6/25/2024 12:42	46005	BERW_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
6/25/2024 12:44	28805	LAKE_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
6/25/2024 12:45	64201	KINZ_T1	4	13	9	0.5	0.48	-0.02	0.04	0.11	4	4	0	2100	2100	0
6/25/2024 12:45	64203	KINZ_T1	2	4	2	0.6	0.95	0.35	0	0	0	0	0	0	0	0
6/25/2024 12:45	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/25/2024 12:47	26402	INOR_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/25/2024 12:47	26401	INOR_T1	2	5	3	3.35	2.57	-0.78	1.11	1.15	0	0	0	0	0	0
6/25/2024 12:50	58705	ROSE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 12:50	58702	ROSE_T2	0	0	0	0	0	0	-1.78	-1.87	0	0	0	0	0	0
6/25/2024 12:50	58706	ROSE_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
6/25/2024 12:56	56801	BENV_T1	2	7	5	0.2	0.83	0.63	-0.31	-0.29	1	1	0	600	600	0
6/25/2024 12:56	56803	BENV_T1	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/25/2024 12:59	56801	BENV_T1	2	7	5	0.2	0.83	0.63	-0.31	-0.29	1	1	0	600	600	0
6/25/2024 12:59	56803	BENV_T1	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/25/2024 13:00	64203	KINZ_T1	4	4	0	1.15	0.8	-0.35	0.6	0.58	3	3	0	2100	2100	0
6/25/2024 13:00	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/25/2024 13:00	64201	KINZ_T1	12	11	-1	0.43	0.6	0.17	0	0	0	0	0	0	0	0
6/25/2024 13:00	64204	KINZ_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/25/2024 13:02	40902	JESH_T1	0	0	0	0	0	0	-0.81	-0.43	3	3	0	1800	1800	0
6/25/2024 13:02	56602	HAMP_T2	100	73	-27	0.43	0.35	-0.08	0	0	0	0	0	0	0	0
6/25/2024 13:02	23401	HONE_T2	1	0	-1	0.4	0	-0.4	0.08	-0.06	0	0	0	0	0	0
6/25/2024 13:02	40901	JESH_T1	1	1	0	2.3	1.7	-0.6	0	0	0	0	0	0	0	0
6/25/2024 13:03	28805	LAKE_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
6/25/2024 13:10	44301	BEAV_T2	2	3	1	1	1.15	0.15	0.95	0.89	2	2	0	1500	1500	0
6/25/2024 13:10	24902	WHHA_T1	1	1	0	0.8	0.2	-0.6	0.79	0.78	0	0	0	0	0	0
6/25/2024 13:14	24702	FLND_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
6/25/2024 13:14	24701	FLND_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
6/25/2024 13:15	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 13:15	23901	ERMO_T2	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
6/25/2024 13:15	52403	GRPA_T2	3	8	5	0.53	0.53	0	0.03	0.08	0	0	0	0	0	0
6/25/2024 13:15	52404	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 13:15	52402	GRPA_T2	4	3	-1	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
6/25/2024 13:17	47402	PENS_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
6/25/2024 13:17	47401	PENS_T1	7	9	2	0.54	0.57	0.03	1.77	1.81	0	0	0	0	0	0
6/25/2024 13:17	46801	HEPB_T2	0	0	0	0	0	0	-1.06	-1.07	0	0	0	0	0	0
6/25/2024 13:17	46803	HEPB_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
6/25/2024 13:17	65501	MOJO_T1	0	0	0	0	0	0	-0.56	-0.56	1	1	0	900	900	0
6/25/2024 13:17	47403	PENS_T1	2	3	1	0.6	0.77	0.17	0	0	0	0	0	0	0	0
6/25/2024 13:18	46801	HEPB_T2	0	0	0	0	0	0	1.06	1.07	0	0	0	0	0	0
6/25/2024 13:18	46803	HEPB_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
6/25/2024 13:19	47403	PENS_T1	2	3	1	0.6	0.77	0.17	0	0	0	0	0	0	0	0
6/25/2024 13:19	47402	PENS_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
6/25/2024 13:19	47401	PENS_T1	7	9	2	0.54	0.57	0.03	1.77	1.81	0	0	0	0	0	0
6/25/2024 13:21	47403	PENS_T1	2	3	1	0.6	0.77	0.17	0	0	0	0	0	0	0	0
6/25/2024 13:21	47401	PENS_T1	7	9	2	0.54	0.57	0.03	3.62	3.65	0	0	0	0	0	0
6/25/2024 13:21	55003	NEWP_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
6/25/2024 13:21	47402	PENS_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
6/25/2024 13:22	40301	TAMA_T3	4	4	0	0.57	0.8	0.23	0	0	0	0	0	0	0	0
6/25/2024 13:22	40302	TAMA_T3	0	0	0	0	0	0	-1.05	-1.05	1	1	0	1200	1200	0
6/25/2024 13:23	59202	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/25/2024 13:24	61102	BERK_T5	0	0	0	0	0	0	4.03	4.11	5	5	0	1500	1500	0
6/25/2024 13:25	61102	BERK_T5	0	0	0	0	0	0	1.61	1.64	2	2	0	600	600	0
6/25/2024 13:26	61102	BERK_T5	0	0	0	0	0	0	1.61	1.64	2	2	0	600	600	0
6/25/2024 13:27	20601	GRWO_T2	73	115	42	0.6	0.49	-0.11	1.06	1.05	0	0	0	0	0	0
6/25/2024 13:30	55101	WERT_T1	0	2	2	0	0.1	0.1	-2.02	-1.75	4	4	0	3300	3300	0
6/25/2024 13:30	66901	SHIL_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
6/25/2024 13:30	66902	SHIL_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
6/25/2024 13:30	55103	WERT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/25/2024 13:31	65501	MOJO_T1	0	0	0	0	0	0	-0.56	-0.54	1	1	0	900	900	0
6/25/2024 13:32	64201	KINZ_T1	6	2	-4	0.48	0	-0.48	0	0	0	0	0	0	0	0
6/25/2024 13:32	64203	KINZ_T1	3	2	-1	0.8	0.5	-0.3	0.7	0.67	3	3	0	2100	2100	0
6/25/2024 13:32	64202	KINZ_T1	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
6/25/2024 13:32	64204	KINZ_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/25/2024 13:33	55002	NEWP_T1	4	4	0	0.93	0.68	-0.25	0.03	0.03	0	0	0	0	0	0
6/25/2024 13:33	45801	HEGI_T1	0	0	0	0	0	0	0.53	0.53	1	1	0	900	900	0
6/25/2024 13:33	45802	HEGI_T2	28	26	-2	0.65	0.63	-0.02	-0.03	-0.1	2	2	0	1200	1200	0
6/25/2024 13:34	64101	REFR_T1	8	10	2	0.69	0.95	0.26	0.49	0.51	0	0	0	0	0	0
6/25/2024 13:34	55002	NEWP_T1	4	4	0	0.93	0.68	-0.25	0.03	0.03	0	0	0	0	0	0
6/25/2024 13:40	54504	ENOL_T2	0	0	0	0	0	0	-1.98	-1.92	1	1	0	600	600	0
6/25/2024 13:42	24902	WHHA_T1	1	1	0	0.6	0.7	0.1	0.78	0.78	0	0	0	0	0	0
6/25/2024 13:45	28704	HAML_T2	0	1	1	0	0.1	0.1	0.03	0.03	0	0	0	0	0	0
6/25/2024 13:45	28701	HAML_T2	4	4	0	0.65	0.73	0.08	0	0	0	0	0	0	0	0
6/25/2024 13:46	40101	HUNT_T2	1	7	6	0.4	0.45	0.05	-0.12	-0.11	0	0	0	0	0	0
6/25/2024 13:48	55101	WERT_T1	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/25/2024 13:48	51002	NHAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 13:48	64203	KINZ_T1	2	2	0	0.85	0.5	-0.35	0.67	0.58	3	3	0	2100	2100	0
6/25/2024 13:48	64204	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/25/2024 13:48	55105	WERT_T1	0	0	0	0	0	0	0.5	0.46	1	1	0	900	900	0
6/25/2024 13:48	55103	WERT_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/25/2024 13:48	51004	NHAR_T1	1	1	0	7.2	6.8	-0.4	-1.24	-1.23	0	0	0	0	0	0
6/25/2024 13:48	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/25/2024 13:48	64201	KINZ_T1	0	8	8	0	0.8	0.8	0	0	0	0	0	0	0	0
6/25/2024 13:51	55408	SHER_T2	2	1	-1	1.15	2	0.85	0.08	0.05	1	1	0	1200	1200	0
6/25/2024 13:51	65901	SAKR_T2	1	1	0	6.8	6.9	0.1	-0.26	-0.31	2	2	0	1500	1500	0
6/25/2024 13:53	60201	ATGL_T2	0	0	0	0	0	0	0.38	0.29	2	2	0	900	900	0
6/25/2024 13:53	54506	ENOL_T2	0	0	0	0	0	0	0.57	0.67	1	1	0	600	600	0
6/25/2024 13:58	48901	FOSP_T2	0	0	0	0	0	0	-0.1	-0.11	1	1	0	600	600	0
6/25/2024 13:59	20601	GRWO_T2	113	115	2	0.73	0.49	-0.24	0	0	0	0	0	0	0	0
6/25/2024 13:59	20603	GRWO_T2	0	0	0	0	0	0	-0.31	-0.3	1	1	0	900	900	0
6/25/2024 14:00	24101	EHAZ_T1	8	15	7	0.16	0.2	0.04	0	0	0	0	0	0	0	0
6/25/2024 14:00	24102	EHAZ_T1	2	1	-1	1.15	0.9	-0.25	0	0	0	0	0	0	0	0
6/25/2024 14:00	24103	EHAZ_T1	0	0	0	0	0	0	-0.32	-0.27	0	0	0	0	0	0
6/25/2024 14:00	24105	EHAZ_T1	4	4	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
6/25/2024 14:00	24104	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/25/2024 14:03	47802	MOCA_T2	1	1	0	0.7	0.9	0.2	-0.58	-0.58	0	0	0	0	0	0
6/25/2024 14:08	66505	SMAN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/25/2024 14:08	66501	SMAN_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
6/25/2024 14:08	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 14:08	66502	SMAN_T2	1	1	0	0.1	0.1	0	0.65	0.6	0	0	0	0	0	0
6/25/2024 14:10	13905	SEID_T1	0	0	0	0	0	0	-0.21	-0.29	1	1	0	1200	1200	0
6/25/2024 14:10	13903	SEID_T1	1	3	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/25/2024 14:13	53903	HALI_T2	2	6	4	0.65	0.67	0.02	0.2	0.21	0	0	0	0	0	0
6/25/2024 14:13	53902	HALI_T2	1	2	1	4.5	2.5	-2	0	0	0	0	0	0	0	0
6/25/2024 14:14	53903	HALI_T2	2	6	4	0.65	0.67	0.02	0.1	0.11	0	0	0	0	0	0
6/25/2024 14:14	53902	HALI_T2	1	2	1	4.5	2.5	-2	0	0	0	0	0	0	0	0
6/25/2024 14:15	53901	HALI_T2	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
6/25/2024 14:15	53903	HALI_T2	6	5	-1	0.67	0.62	-0.05	0	0	0	0	0	0	0	0
6/25/2024 14:15	53902	HALI_T2	1	3	2	4.8	1.67	-3.13	0	0	0	0	0	0	0	0
6/25/2024 14:17	11103	EGYP_T1	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
6/25/2024 14:17	11104	EGYP_T1	8	8	0	1.01	0.96	-0.05	0	0	0	0	0	0	0	0
6/25/2024 14:17	11102	EGYP_T1	4	1	-3	0.7	1	0.3	0	0	0	0	0	0	0	0
6/25/2024 14:17	65001	NEFF_T2	0	0	0	0	0	0	0.45	0.38	1	1	0	1200	1200	0
6/25/2024 14:18	63501	HEID_TBK1-2	0	0	0	0	0	0	0.9	0.89	1	1	0	900	900	0
6/25/2024 14:18	47401	PENS_T1	9	7	-2	0.63	0.58	-0.05	1.88	1.79	0	0	0	0	0	0
6/25/2024 14:18	47403	PENS_T1	2	2	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
6/25/2024 14:18	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/25/2024 14:18	40101	HUNT_T2	3	31	28	0.37	0.44	0.07	-0.1	-0.05	0	0	0	0	0	0
6/25/2024 14:18	24902	WHHA_T1	1	1	0	0.7	1	0.3	0.78	0.78	0	0	0	0	0	0
6/25/2024 14:19	11104	EGYP_T1	8	8	0	1.01	0.96	-0.05	0	0	0	0	0	0	0	0
6/25/2024 14:19	11102	EGYP_T1	4	1	-3	0.7	1	0.3	0.84	0.86	0	0	0	0	0	0
6/25/2024 14:19	47403	PENS_T1	2	2	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
6/25/2024 14:19	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/25/2024 14:19	47401	PENS_T1	9	7	-2	0.63	0.58	-0.05	1.88	1.79	0	0	0	0	0	0
6/25/2024 14:20	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/25/2024 14:20	47401	PENS_T1	9	7	-2	0.63	0.58	-0.05	1.88	1.79	0	0	0	0	0	0
6/25/2024 14:20	47403	PENS_T1	2	2	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
6/25/2024 14:23	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/25/2024 14:23	47401	PENS_T1	9	7	-2	0.63	0.58	-0.05	1.79	1.77	0	0	0	0	0	0
6/25/2024 14:23	51303	WIND_T1	4	13	9	0.33	0.18	-0.15	0	0	0	0	0	0	0	0
6/25/2024 14:23	51305	WIND_T1	1	1	0	0.3	0.5	0.2	-0.12	-0.11	0	0	0	0	0	0
6/25/2024 14:23	47403	PENS_T1	2	2	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
6/25/2024 14:23	60801	BUCK_T1	0	0	0	0	0	0	-0.21	-0.2	1	1	0	600	600	0
6/25/2024 14:23	51306	WIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/25/2024 14:23	51302	WIND_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
6/25/2024 14:24	67801	WLAN_T1	1	11	10	2.6	2.8	0.2	0.24	0.23	0	0	0	0	0	0
6/25/2024 14:24	46004	BERW_T2	0	0	0	0	0	0	1.08	1.09	0	0	0	0	0	0
6/25/2024 14:24	67804	WLAN_T1	7	10	3	0.39	0.8	0.41	0	0	0	0	0	0	0	0
6/25/2024 14:25	10705	CATA_T2	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
6/25/2024 14:25	51302	WIND_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
6/25/2024 14:25	10707	CATA_T2	0	0	0	0	0	0	0.77	0.8	0	0	0	0	0	0
6/25/2024 14:25	51306	WIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/25/2024 14:26	61102	BERK_T5	0	0	0	0	0	0	1.54	1.47	2	2	0	600	600	0
6/25/2024 14:28	63303	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/25/2024 14:28	63305	GREE_T1	0	0	0	0	0	0	-1.79	-1.6	1	1	0	900	900	0
6/25/2024 14:29	24902	WHHA_T1	1	1	0	0.7	1	0.3	0.78	0.78	0	0	0	0	0	0
6/25/2024 14:29	53902	HALI_T2	1	3	2	4.8	1.67	-3.13	0	0	0	0	0	0	0	0
6/25/2024 14:29	53903	HALI_T2	6	5	-1	0.67	0.62	-0.05	0.11	0.11	0	0	0	0	0	0
6/25/2024 14:29	63303	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/25/2024 14:29	63305	GREE_T1	0	0	0	0	0	0	-1.79	-1.6	1	1	0	900	900	0
6/25/2024 14:30	53902	HALI_T2	2	2	0	2.4	2.4	0	0	0	0	0	0	0	0	0
6/25/2024 14:30	53903	HALI_T2	5	4	-1	0.62	0.63	0.01	0.21	0.23	0	0	0	0	0	0
6/25/2024 14:33	12701	MACU_T1	0	0	0	0	0	0	-1.5	-1.49	2	2	0	2400	2400	0
6/25/2024 14:34	47401	PENS_T1	6	7	1	0.58	0.28	-0.3	1.79	1.77	0	0	0	0	0	0
6/25/2024 14:34	47403	PENS_T1	2	2	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
6/25/2024 14:35	47403	PENS_T1	2	2	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
6/25/2024 14:35	47401	PENS_T1	6	7	1	0.58	0.28	-0.3	1.79	1.77	0	0	0	0	0	0
6/25/2024 14:38	64101	REFR_T1	10	10	0	0.67	0.73	0.06	0.51	-0.05	0	0	0	0	0	0
6/25/2024 14:41	60201	ATGL_T2	1	1	0	0.5	0	-0.5	0.34	0.42	2	2	0	900	900	0
6/25/2024 14:42	54503	ENOL_T2	0	0	0	0	0	0	-0.72	-0.71	1	1	0	600	600	0
6/25/2024 14:45	55101	WERT_T1	8	5	-3	0.31	0.1	-0.21	-3.57	-3.64	8	8	0	6600	6600	0
6/25/2024 14:45	55103	WERT_T1	1	1	0	3.9	0.9	-3	0	0	0	0	0	0	0	0
6/25/2024 14:45	62105	ELAN_T1	0	0	0	0	0	0	1.11	1.13	0	0	0	0	0	0
6/25/2024 14:46	55103	WERT_T1	1	1	0	3.9	0.9	-3	0	0	0	0	0	0	0	0
6/25/2024 14:46	55101	WERT_T1	8	5	-3	0.31	0.1	-0.21	-3.57	-3.64	8	8	0	6600	6600	0
6/25/2024 14:47	60501	NMAN_T2	3	3	0	3.03	3.1	0.07	0	0	0	0	0	0	0	0
6/25/2024 14:47	63401	HONY_T1	0	0	0	0	0	0	0.87	1.06	1	1	0	600	600	0
6/25/2024 14:47	60502	NMAN_T2	0	0	0	0	0	0	0.72	0.65	0	0	0	0	0	0
6/25/2024 14:48	55101	WERT_T1	8	5	-3	0.31	0.1	-0.21	-1.79	-1.82	4	4	0	3300	3300	0
6/25/2024 14:48	55103	WERT_T1	1	1	0	3.9	0.9	-3	0	0	0	0	0	0	0	0
6/25/2024 14:49	55103	WERT_T1	1	1	0	3.9	0.9	-3	0	0	0	0	0	0	0	0
6/25/2024 14:49	55101	WERT_T1	8	5	-3	0.31	0.1	-0.21	-1.79	-1.82	4	4	0	3300	3300	0
6/25/2024 14:50	60501	NMAN_T2	3	3	0	3.03	3.1	0.07	0	0	0	0	0	0	0	0
6/25/2024 14:50	52501	PROG_T1	0	0	0	0	0	0	0.73	0.8	1	1	0	300	300	0
6/25/2024 14:50	60502	NMAN_T2	0	0	0	0	0	0	0.72	0.65	0	0	0	0	0	0
6/25/2024 14:51	14403	SSLA_T1	1	2	1	0.4	0	-0.4	1.04	1.06	0	1	1	0	600	600
6/25/2024 14:51	14402	SSLA_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
6/25/2024 14:51	14401	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/25/2024 14:51	24201	PROV_T3	3	2	-1	3.7	4.8	1.1	-0.82	-0.81	1	1	0	1200	1200	0
6/25/2024 14:51	14404	SSLA_T1	1	2	1	3.4	3.5	0.1	0	0	0	0	0	0	0	0
6/25/2024 14:51	24204	PROV_T3	1	1	0	7.2	7.6	0.4	0	0	0	0	0	0	0	0
6/25/2024 14:53	64101	REFR_T1	10	3	-7	0.77	0.73	-0.04	-0.05	-0.04	0	0	0	0	0	0
6/25/2024 14:55	44801	EDAN_T2	5	4	-1	1.48	1	-0.48	0.83	0.83	0	0	0	0	0	0
6/25/2024 14:56	10704	CATA_T2	0	0	0	0	0	0	0.37	0.31	2	2	0	2400	2400	0
6/25/2024 14:56	10701	CATA_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/25/2024 14:56	10705	CATA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/25/2024 14:57	46005	BERW_T1	1	1	0	1	0.6	-0.4	-1.39	-1.41	2	2	0	2100	2100	0
6/25/2024 15:00	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/25/2024 15:00	44801	EDAN_T2	2	5	3	1	0.9	-0.1	0.83	0.83	0	0	0	0	0	0
6/25/2024 15:00	42902	MIDD_T2	2	4	2	0.4	0	-0.4	0.04	0.07	0	0	0	0	0	0
6/25/2024 15:01	52004	LING_T2	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
6/25/2024 15:01	12304	LANA_T2	32	54	22	0.48	0.41	-0.07	0	0	0	0	0	0	0	0
6/25/2024 15:01	12301	LANA_T2	0	1	1	0	0.4	0.4	-0.68	-0.85	1	1	0	1200	1200	0
6/25/2024 15:01	12305	LANA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/25/2024 15:04	64101	REFR_T1	3	6	3	0.73	0.73	0	-0.05	-0.04	0	0	0	0	0	0
6/25/2024 15:06	64101	REFR_T1	3	6	3	0.73	0.73	0	-0.04	-0.04	0	0	0	0	0	0
6/25/2024 15:07	44203	POIN_T2	7	6	-1	2.44	0.58	-1.86	0.15	0.18	2	2	0	2100	2100	0
6/25/2024 15:07	64101	REFR_T1	3	6	3	0.73	0.73	0	-0.08	-0.07	0	0	0	0	0	0
6/25/2024 15:07	21206	ECAR_T2	8	13	5	1.38	3.85	2.47	0.45	0.38	0	0	0	0	0	0
6/25/2024 15:07	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 15:09	64101	REFR_T1	3	6	3	0.73	0.73	0	-0.04	-0.04	0	0	0	0	0	0
6/25/2024 15:11	24102	EHAZ_T1	3	2	-1	0.4	0.1	-0.3	0.18	0.27	0	0	0	0	0	0
6/25/2024 15:11	24101	EHAZ_T1	31	12	-19	0.39	0.58	0.19	0	0	0	0	0	0	0	0
6/25/2024 15:11	24105	EHAZ_T1	4	4	0	5.88	5.93	0.05	0	0	0	0	0	0	0	0
6/25/2024 15:12	10702	CATA_T2	0	0	0	0	0	0	-0.15	-0.06	0	0	0	0	0	0
6/25/2024 15:12	10701	CATA_T2	3	3	0	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
6/25/2024 15:12	10705	CATA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/25/2024 15:17	64204	KINZ_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
6/25/2024 15:17	64201	KINZ_T1	6	6	0	0.43	0.35	-0.08	0	0	0	0	0	0	0	0
6/25/2024 15:17	64203	KINZ_T1	3	2	-1	0.97	0.8	-0.17	0.69	0.6	3	3	0	2100	2100	0
6/25/2024 15:17	52004	LING_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
6/25/2024 15:18	60501	NMAN_T2	3	3	0	1.9	2.8	0.9	0	0	0	0	0	0	0	0
6/25/2024 15:18	60502	NMAN_T2	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
6/25/2024 15:18	53802	MBRG_T2	0	0	0	0	0	0	0.69	0.7	0	0	0	0	0	0
6/25/2024 15:19	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 15:19	64101	REFR_T1	3	6	3	0.73	0.7	-0.03	-0.04	-0.04	0	0	0	0	0	0
6/25/2024 15:19	43301	WATS_T2	1	2	1	0.6	0.1	-0.5	-0.14	-0.13	1	1	0	900	900	0
6/25/2024 15:20	64101	REFR_T1	3	6	3	0.73	0.7	-0.03	-0.04	-0.04	0	0	0	0	0	0
6/25/2024 15:20	11102	EGYP_T1	2	1	-1	0.5	0.9	0.4	0	0	0	0	0	0	0	0
6/25/2024 15:20	11104	EGYP_T1	9	11	2	1.23	1.2	-0.03	1.12	1.12	0	0	0	0	0	0
6/25/2024 15:22	57403	SPAN_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
6/25/2024 15:22	57401	SPAN_T1	0	7	7	0	0.1	0.1	-0.29	-0.31	1	1	0	600	600	0
6/25/2024 15:22	64101	REFR_T1	3	6	3	0.73	0.7	-0.03	-0.04	-0.03	0	0	0	0	0	0
6/25/2024 15:23	64101	REFR_T1	3	6	3	0.73	0.7	-0.03	-0.07	-0.06	0	0	0	0	0	0
6/25/2024 15:24	64101	REFR_T1	3	6	3	0.73	0.7	-0.03	-0.04	-0.03	0	0	0	0	0	0
6/25/2024 15:31	43301	WATS_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/25/2024 15:31	43304	WATS_T2	1	0	-1	0.2	0	-0.2	-0.14	-0.17	0	0	0	0	0	0
6/25/2024 15:35	43301	WATS_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/25/2024 15:35	14403	SSLA_T1	0	1	1	0	0	0	1.08	1.1	1	1	0	600	600	0
6/25/2024 15:35	14404	SSLA_T1	1	1	0	3.7	3.6	-0.1	0	0	0	0	0	0	0	0
6/25/2024 15:35	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/25/2024 15:35	43304	WATS_T2	1	0	-1	0.2	0	-0.2	-0.14	-0.17	0	0	0	0	0	0
6/25/2024 15:35	14402	SSLA_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/25/2024 15:37	43201	MVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/25/2024 15:37	43202	MVIL_T2	2	7	5	0.35	0.33	-0.02	-0.36	-0.35	0	0	0	0	0	0
6/25/2024 15:38	43301	WATS_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/25/2024 15:38	43304	WATS_T2	1	0	-1	0.2	0	-0.2	-0.17	-0.09	0	0	0	0	0	0
6/25/2024 15:39	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/25/2024 15:39	14404	SSLA_T1	1	1	0	3.7	3.6	-0.1	0	0	0	0	0	0	0	0
6/25/2024 15:39	14403	SSLA_T1	0	1	1	0	0	0	1.1	1.12	1	1	0	600	600	0
6/25/2024 15:39	14402	SSLA_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/25/2024 15:40	64701	LITI_T1	0	7	7	0	0	0	0.24	0.17	1	1	0	900	900	0
6/25/2024 15:44	53601	DALM_T2	1	1	0	0.9	0.5	-0.4	-0.79	-0.77	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/25/2024 15:46	52004	LING_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
6/25/2024 15:48	64201	KINZ_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/25/2024 15:48	64204	KINZ_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
6/25/2024 15:48	64203	KINZ_T1	2	1	-1	0.8	0.3	-0.5	0.57	0.31	3	3	0	2100	2100	0
6/25/2024 15:51	64101	REFR_T1	6	10	4	0.7	0.98	0.28	-0.05	-0.04	0	0	0	0	0	0
6/25/2024 15:51	14603	SWHI_T1	0	0	0	0	0	0	-1	-0.99	2	2	0	1200	1200	0
6/25/2024 15:51	14605	SWHI_T1	3	7	4	0.97	0.6	-0.37	0	0	0	0	0	0	0	0
6/25/2024 15:53	56501	ROCK_T2	1	1	0	0.3	0.4	0.1	-1.55	-1.54	0	0	0	0	0	0
6/25/2024 15:54	64101	REFR_T1	6	10	4	0.7	0.98	0.28	-0.03	-0.02	0	0	0	0	0	0
6/25/2024 15:58	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	900	900	0
6/25/2024 15:58	53602	DALM_T2	0	0	0	0	0	0	-0.41	-0.41	1	1	0	600	600	0
6/25/2024 15:58	29402	BELT_T1	1	1	0	8.2	8	-0.2	0	0	0	0	0	0	0	0
6/25/2024 15:58	53601	DALM_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/25/2024 16:00	11805	FRAN_T1	0	4	4	0	0.88	0.88	0	0	0	0	0	0	0	0
6/25/2024 16:00	11804	FRAN_T1	230	236	6	1.15	0.97	-0.18	1.74	1.7	0	0	0	0	0	0
6/25/2024 16:01	63401	HONY_T1	0	0	0	0	0	0	0.79	0.73	1	1	0	600	600	0
6/25/2024 16:01	42903	MIDD_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/25/2024 16:01	42902	MIDD_T2	14	22	8	0.65	0.84	0.19	-0.16	-0.26	0	0	0	0	0	0
6/25/2024 16:02	63403	HONY_T2	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
6/25/2024 16:02	26401	INOR_T1	4	1	-3	1.73	5.8	4.07	1.46	1.45	0	0	0	0	0	0
6/25/2024 16:02	12302	LANA_T2	0	0	0	0	0	0	-1.71	-1.66	3	3	0	2700	2700	0
6/25/2024 16:02	12305	LANA_T2	1	6	5	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/25/2024 16:02	63402	HONY_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
6/25/2024 16:02	12301	LANA_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
6/25/2024 16:02	12304	LANA_T2	38	66	28	0.41	0.45	0.04	0	0	0	0	0	0	0	0
6/25/2024 16:03	42903	MIDD_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/25/2024 16:03	42902	MIDD_T2	14	22	8	0.65	0.84	0.19	-0.16	-0.26	0	0	0	0	0	0
6/25/2024 16:04	52004	LING_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
6/25/2024 16:05	42903	MIDD_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/25/2024 16:05	42902	MIDD_T2	14	22	8	0.65	0.84	0.19	-0.16	-0.26	0	0	0	0	0	0
6/25/2024 16:07	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/25/2024 16:15	14204	EALL_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
6/25/2024 16:19	46101	MACI_T2	0	0	0	0	0	0	-0.42	-0.42	1	1	0	1200	1200	0
6/25/2024 16:28	41301	FISH_T1	2	3	1	1.1	0.97	-0.13	-0.28	-0.28	0	0	0	0	0	0
6/25/2024 16:28	41303	FISH_T1	1	5	4	3	1.02	-1.98	0	0	0	0	0	0	0	0
6/25/2024 16:29	52403	GRPA_T2	54	56	2	0.83	0.66	-0.17	0.27	0.27	0	0	0	0	0	0
6/25/2024 16:29	52401	GRPA_T2	3	8	5	0.57	0.1	-0.47	0	0	0	0	0	0	0	0
6/25/2024 16:29	63304	GREE_T1	0	0	0	0	0	0	-4.01	-3.97	0	0	0	0	0	0
6/25/2024 16:29	46206	DANV_T2	13	32	19	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
6/25/2024 16:29	46203	DANV_T2	0	0	0	0	0	0	-1.33	-1.34	0	0	0	0	0	0
6/25/2024 16:29	52402	GRPA_T2	4	6	2	0.33	0.4	0.07	0	0	0	0	0	0	0	0
6/25/2024 16:33	28805	LAKE_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
6/25/2024 16:39	56501	ROCK_T2	1	3	2	0.5	0.2	-0.3	-1.51	-1.5	0	0	0	0	0	0
6/25/2024 16:39	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 16:39	56504	ROCK_T2	3	3	0	0.47	0	-0.47	0	0	0	0	0	0	0	0
6/25/2024 16:45	63802	HEMP_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
6/25/2024 16:45	63804	HEMP_T1	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
6/25/2024 16:47	11104	EGYP_T1	16	28	12	1.22	1.62	0.4	0	0	0	0	0	0	0	0
6/25/2024 16:47	11102	EGYP_T1	3	4	1	0.57	0.9	0.33	0	0	0	0	0	0	0	0
6/25/2024 16:47	11103	EGYP_T1	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
6/25/2024 16:56	67804	WLAN_T1	10	10	0	1.97	0.98	-0.99	0	0	0	0	0	0	0	0
6/25/2024 16:56	60201	ATGL_T2	0	1	1	0	0	0	0.47	0.38	2	2	0	900	900	0
6/25/2024 16:56	67801	WLAN_T1	24	27	3	0.61	0.95	0.34	0.44	-0.84	0	0	0	0	0	0
6/25/2024 16:59	63401	HONY_T1	0	0	0	0	0	0	0.51	0.52	1	1	0	600	600	0
6/25/2024 17:01	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 17:01	21206	ECAR_T2	1	1	0	7.4	7.2	-0.2	0.21	0.21	0	0	0	0	0	0
6/25/2024 17:06	42201	SHEN_T2	0	0	0	0	0	0	0.5	0.48	1	1	0	600	600	0
6/25/2024 17:07	42201	SHEN_T2	0	0	0	0	0	0	0.48	0.45	1	1	0	600	600	0
6/25/2024 17:09	42201	SHEN_T2	0	0	0	0	0	0	0.95	0.91	2	2	0	1200	1200	0
6/25/2024 17:10	56801	BENV_T1	1	1	0	0.1	0.1	0	-0.43	-0.39	4	4	0	2400	2400	0
6/25/2024 17:10	56803	BENV_T1	6	11	5	1.05	1.02	-0.03	0	0	0	0	0	0	0	0
6/25/2024 17:11	56801	BENV_T1	1	1	0	0.1	0.1	0	-0.11	-0.1	1	1	0	600	600	0
6/25/2024 17:11	56803	BENV_T1	6	11	5	1.05	1.02	-0.03	0	0	0	0	0	0	0	0
6/25/2024 17:12	44801	EDAN_T2	2	5	3	0.95	1.5	0.55	0.78	0.89	0	0	0	0	0	0
6/25/2024 17:13	56801	BENV_T1	1	1	0	0.1	0.1	0	-0.11	-0.1	1	1	0	600	600	0
6/25/2024 17:13	56803	BENV_T1	6	11	5	1.05	1.02	-0.03	0	0	0	0	0	0	0	0
6/25/2024 17:14	56803	BENV_T1	6	11	5	1.05	1.02	-0.03	0	0	0	0	0	0	0	0
6/25/2024 17:14	56801	BENV_T1	1	1	0	0.1	0.1	0	-0.22	-0.2	2	2	0	1200	1200	0
6/25/2024 17:16	11103	EGYP_T1	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
6/25/2024 17:16	11102	EGYP_T1	4	3	-1	0.73	0.77	0.04	0	0	0	0	0	0	0	0
6/25/2024 17:16	11104	EGYP_T1	28	8	-20	1.07	1.05	-0.02	0	0	0	0	0	0	0	0
6/25/2024 17:17	52403	GRPA_T2	63	97	34	1.11	1.56	0.45	0	0	0	0	0	0	0	0
6/25/2024 17:17	52401	GRPA_T2	65	69	4	0.62	0.54	-0.08	-0.22	-0.2	0	0	0	0	0	0
6/25/2024 17:17	52402	GRPA_T2	14	5	-9	0.86	0.55	-0.31	0	0	0	0	0	0	0	0
6/25/2024 17:18	64801	MONE_T2	1	1	0	0.3	1.8	1.5	0	0	0	0	0	0	0	0
6/25/2024 17:18	64802	MONE_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
6/25/2024 17:20	11104	EGYP_T1	28	8	-20	1.07	1.05	-0.02	1.16	0.31	0	1	1	0	900	900
6/25/2024 17:20	11102	EGYP_T1	4	3	-1	0.73	0.77	0.04	0	0	0	0	0	0	0	0
6/25/2024 17:21	56501	ROCK_T2	2	2	0	0.25	1	0.75	-1.48	-1.47	0	0	0	0	0	0
6/25/2024 17:21	56504	ROCK_T2	0	21	21	0	0.84	0.84	0	0	0	0	0	0	0	0
6/25/2024 17:23	67602	WARW_T2	1	0	-1	0.4	0	-0.4	0.5	0.43	2	2	0	1500	1500	0
6/25/2024 17:25	67602	WARW_T2	1	0	-1	0.4	0	-0.4	0.5	0.43	2	2	0	1500	1500	0
6/25/2024 17:26	61701	ELIZ_T1	1	1	0	2.3	2.9	0.6	1.18	1.13	0	0	0	0	0	0
6/25/2024 17:26	61703	ELIZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/25/2024 17:27	61703	ELIZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/25/2024 17:27	61701	ELIZ_T1	1	1	0	2.3	2.9	0.6	1.18	1.13	0	0	0	0	0	0
6/25/2024 17:30	61701	ELIZ_T1	1	1	0	2.6	2.9	0.3	1.18	1.13	0	0	0	0	0	0
6/25/2024 17:31	64202	KINZ_T1	2	4	2	0.65	0	-0.65	0	0	0	0	0	0	0	0
6/25/2024 17:31	64201	KINZ_T1	2	3	1	0.95	0.3	-0.65	0.07	0.03	4	4	0	2100	2100	0
6/25/2024 17:33	43301	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/25/2024 17:33	43304	WATS_T2	6	6	0	0.5	0.35	-0.15	0	-0.07	0	0	0	0	0	0
6/25/2024 17:34	43304	WATS_T2	6	6	0	0.5	0.35	-0.15	0	-0.07	0	0	0	0	0	0
6/25/2024 17:34	22602	KIMB_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
6/25/2024 17:34	65205	PRIN_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
6/25/2024 17:34	65202	PRIN_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/25/2024 17:34	43301	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/25/2024 17:36	56504	ROCK_T2	11	23	12	0.85	0.74	-0.11	0	0	0	0	0	0	0	0
6/25/2024 17:36	56501	ROCK_T2	1	4	3	1	0.3	-0.7	-1.47	-1.45	0	0	0	0	0	0
6/25/2024 17:37	56501	ROCK_T2	1	4	3	1	0.3	-0.7	-4.36	-4.32	0	0	0	0	0	0
6/25/2024 17:37	43304	WATS_T2	6	6	0	0.5	0.35	-0.15	-0.07	0.07	0	0	0	0	0	0
6/25/2024 17:37	56504	ROCK_T2	11	23	12	0.85	0.74	-0.11	0	0	0	0	0	0	0	0
6/25/2024 17:37	43301	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/25/2024 17:38	56504	ROCK_T2	11	23	12	0.85	0.74	-0.11	0.78	0.79	0	0	0	0	0	0
6/25/2024 17:38	56501	ROCK_T2	1	4	3	1	0.3	-0.7	-1.45	-1.44	0	0	0	0	0	0
6/25/2024 17:39	66504	SMAN_T2	11	7	-4	0.37	0.55	0.18	-0.21	-0.15	1	1	0	1200	1200	0
6/25/2024 17:39	66505	SMAN_T2	1	3	2	0.7	1.5	0.8	0	0	0	0	0	0	0	0
6/25/2024 17:40	56501	ROCK_T2	1	4	3	1	0.3	-0.7	0	0	0	0	0	0	0	0
6/25/2024 17:40	56504	ROCK_T2	11	23	12	0.85	0.74	-0.11	0.78	0.79	0	0	0	0	0	0
6/25/2024 17:41	61302	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 17:41	61303	EARL_T1	2	2	0	0.9	0.5	-0.4	0.81	0.82	0	0	0	0	0	0
6/25/2024 17:42	11104	EGYP_T1	8	6	-2	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
6/25/2024 17:42	11102	EGYP_T1	3	3	0	0.77	0.9	0.13	0	0	0	0	0	0	0	0
6/25/2024 17:42	11103	EGYP_T1	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
6/25/2024 17:46	12305	LANA_T2	6	8	2	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
6/25/2024 17:46	12301	LANA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 17:46	12304	LANA_T2	65	88	23	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
6/25/2024 17:46	12302	LANA_T2	0	0	0	0	0	0	-1.64	-1.64	3	3	0	2700	2700	0
6/25/2024 17:48	47101	MARL_T1	52	57	5	1.08	1.26	0.18	-0.78	-0.74	1	1	0	600	600	0
6/25/2024 17:48	47104	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 17:49	47101	MARL_T1	52	57	5	1.08	1.26	0.18	-0.78	-0.74	1	1	0	600	600	0
6/25/2024 17:49	47104	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 17:50	56504	ROCK_T2	21	17	-4	0.75	0.71	-0.04	0.39	0.4	0	0	0	0	0	0
6/25/2024 17:50	56501	ROCK_T2	2	3	1	0.85	0.3	-0.55	0	0	0	0	0	0	0	0
6/25/2024 17:50	47101	MARL_T1	52	57	5	1.08	1.26	0.18	-0.78	-0.74	1	1	0	600	600	0
6/25/2024 17:50	51002	NHAR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/25/2024 17:50	47104	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 17:50	51004	NHAR_T1	1	1	0	7.1	6.7	-0.4	-1.17	-1.18	0	0	0	0	0	0
6/25/2024 17:50	51006	NHAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 17:52	56501	ROCK_T2	2	3	1	0.85	0.3	-0.55	0	0	0	0	0	0	0	0
6/25/2024 17:52	56504	ROCK_T2	21	17	-4	0.75	0.71	-0.04	0.4	0.4	0	0	0	0	0	0
6/25/2024 17:54	56504	ROCK_T2	21	17	-4	0.75	0.71	-0.04	0.79	0.81	0	0	0	0	0	0
6/25/2024 17:54	56501	ROCK_T2	2	3	1	0.85	0.3	-0.55	0	0	0	0	0	0	0	0
6/25/2024 17:55	67703	WERN_T2	1	1	0	2.3	0	-2.3	-0.01	-0.01	1	1	0	900	900	0
6/25/2024 17:55	56501	ROCK_T2	2	3	1	0.85	0.3	-0.55	0	0	0	0	0	0	0	0
6/25/2024 17:55	56504	ROCK_T2	21	17	-4	0.75	0.71	-0.04	0.4	0.4	0	0	0	0	0	0
6/25/2024 17:58	52403	GRPA_T2	95	95	0	2.14	2.19	0.05	0.09	0.07	0	0	0	0	0	0
6/25/2024 17:58	52401	GRPA_T2	38	33	-5	0.57	0.45	-0.12	0	0	0	0	0	0	0	0
6/25/2024 17:58	52402	GRPA_T2	4	6	2	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/25/2024 18:09	56501	ROCK_T2	3	1	-2	0.33	0.3	-0.03	-1.44	-1.46	0	0	0	0	0	0
6/25/2024 18:09	56504	ROCK_T2	16	16	0	0.93	0.84	-0.09	0	0	0	0	0	0	0	0
6/25/2024 18:11	22003	BOHE_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/25/2024 18:11	22002	BOHE_T1	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
6/25/2024 18:12	47101	MARL_T1	53	64	11	1.53	1.32	-0.21	-0.77	-0.73	1	1	0	600	600	0
6/25/2024 18:13	22003	BOHE_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/25/2024 18:13	22001	BOHE_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
6/25/2024 18:15	64903	MILL_T2	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/25/2024 18:15	64902	MILL_T2	0	0	0	0	0	0	-0.48	-0.5	1	1	0	900	900	0
6/25/2024 18:18	64902	MILL_T2	0	0	0	0	0	0	-0.48	-0.5	1	1	0	900	900	0
6/25/2024 18:18	64903	MILL_T2	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/25/2024 18:19	47101	MARL_T1	56	62	6	1.38	1.26	-0.12	-0.77	-0.73	1	1	0	600	600	0
6/25/2024 18:21	14204	EALL_T2	0	0	0	0	0	0	-0.34	-0.25	0	0	0	0	0	0
6/25/2024 18:24	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 18:26	20402	ASHF_T2	7	10	3	0.39	0.1	-0.29	0	0	0	0	0	0	0	0
6/25/2024 18:26	20401	ASHF_T2	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
6/25/2024 18:26	20403	ASHF_T2	48	12	-36	0.57	0.2	-0.37	1.11	1.1	0	0	0	0	0	0
6/25/2024 18:32	43301	WATS_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/25/2024 18:32	12606	MACA_T1	27	35	8	0.42	0.86	0.44	0	0	0	0	0	0	0	0
6/25/2024 18:32	43304	WATS_T2	5	8	3	0.46	0.1	-0.36	-0.07	-0.07	0	0	0	0	0	0
6/25/2024 18:32	12601	MACA_T1	0	6	6	0	0.4	0.4	1.5	1.52	0	0	0	0	0	0
6/25/2024 18:34	51004	NHAR_T1	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
6/25/2024 18:34	51003	NHAR_T1	0	0	0	0	0	0	-2.22	-2.18	1	1	0	1200	1200	0
6/25/2024 18:47	13501	MCMI_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
6/25/2024 18:50	11101	EGYP_T1	0	0	0	0	0	0	-0.11	0.16	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/25/2024 18:50	22701	MINO_T1	0	0	0	0	0	0	-0.45	-0.48	1	1	0	600	600	0
6/25/2024 18:50	11102	EGYP_T1	3	3	0	1	1.13	0.13	0	0	0	0	0	0	0	0
6/25/2024 18:50	11104	EGYP_T1	6	5	-1	0.95	1.02	0.07	0	0	0	0	0	0	0	0
6/25/2024 18:54	46001	BERW_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
6/25/2024 18:55	54501	ENOL_T2	0	0	0	0	0	0	0.09	0.09	1	1	0	600	600	0
6/25/2024 18:55	29402	BELT_T1	1	1	0	6.6	7.3	0.7	0	0	0	0	0	0	0	0
6/25/2024 18:55	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/25/2024 18:55	54505	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 18:58	46001	BERW_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
6/25/2024 19:02	47001	HUGH_T2	3	3	0	7.27	7.87	0.6	-0.18	-0.21	0	0	0	0	0	0
6/25/2024 19:13	24902	WHHA_T1	1	3	2	1.1	0.3	-0.8	0	0	0	0	0	0	0	0
6/25/2024 19:13	24901	WHHA_T1	0	0	0	0	0	0	0.76	0.75	0	0	0	0	0	0
6/25/2024 19:15	12304	LANA_T2	29	8	-21	0.57	0.57	0	0	0	0	0	0	0	0	0
6/25/2024 19:15	12301	LANA_T2	0	0	0	0	0	0	-0.84	-0.86	1	1	0	1200	1200	0
6/25/2024 19:16	56501	ROCK_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/25/2024 19:16	56504	ROCK_T2	0	4	4	0	0	0	0.42	0.39	0	0	0	0	0	0
6/25/2024 19:17	63501	HEID_TBK1-2	0	0	0	0	0	0	0.49	0.32	1	1	0	900	900	0
6/25/2024 19:18	64701	LITI_T1	0	0	0	0	0	0	0.06	-0.03	1	1	0	900	900	0
6/25/2024 19:21	59003	MIFF_T1	1	2	1	0.4	0.3	-0.1	-0.69	-0.82	0	0	0	0	0	0
6/25/2024 19:21	59002	MIFF_T1	1	5	4	0.1	0.14	0.04	0	0	0	0	0	0	0	0
6/25/2024 19:21	52503	PROG_T2	0	0	0	0	0	0	0.16	0.03	1	1	0	900	900	0
6/25/2024 19:22	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 19:22	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.21	1	1	0	600	600	0
6/25/2024 19:23	52503	PROG_T2	0	0	0	0	0	0	0.03	-0.03	1	1	0	900	900	0
6/25/2024 19:24	66504	SMAN_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/25/2024 19:24	66505	SMAN_T2	3	2	-1	0.37	0.2	-0.17	0.24	0.2	4	4	0	2300	2300	0
6/25/2024 19:27	61001	DONV_T1	0	0	0	0	0	0	1.08	1.02	0	0	0	0	0	0
6/25/2024 19:32	22905	HARW_T1	0	2	2	0	0	0	-0.46	-0.46	0	0	0	0	0	0
6/25/2024 19:32	22903	HARW_T1	7	13	6	0.33	0.75	0.42	0	0	0	0	0	0	0	0
6/25/2024 19:33	12006	HATF_T1	0	0	0	0	0	0	0.06	0.05	2	2	0	2400	2400	0
6/25/2024 19:33	12002	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/25/2024 19:33	61701	ELIZ_T1	1	1	0	2.8	3.6	0.8	1.18	1.17	0	0	0	0	0	0
6/25/2024 19:33	12001	HATF_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/25/2024 19:35	66504	SMAN_T2	0	0	0	0	0	0	-0.31	-0.31	1	1	0	1200	1200	0
6/25/2024 19:35	66505	SMAN_T2	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
6/25/2024 19:38	65604	QVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/25/2024 19:38	65603	QVIL_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
6/25/2024 19:42	29402	BELT_T1	1	1	0	7.8	8.7	0.9	0	0	0	0	0	0	0	0
6/25/2024 19:42	29401	BELT_T1	0	16	16	0	0.13	0.13	0	0	1	1	0	900	900	0
6/25/2024 19:42	67503	WEWI_T2	0	0	0	0	0	0	0.05	0.61	0	0	0	0	0	0
6/25/2024 20:07	67804	WLAN_T1	6	3	-3	0.38	0.4	0.02	0	0	0	0	0	0	0	0
6/25/2024 20:07	67803	WLAN_T1	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
6/25/2024 20:07	67801	WLAN_T1	1	2	1	3.2	3.1	-0.1	0	0	0	0	0	0	0	0
6/25/2024 20:08	52501	PROG_T1	1	1	0	0.1	0.2	0.1	0.58	0.57	1	1	0	300	300	0
6/25/2024 20:08	52504	PROG_T1	4	11	7	0.13	0.13	0	0	0	0	0	0	0	0	0
6/25/2024 20:14	62101	ELAN_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
6/25/2024 20:14	62102	ELAN_T1	0	1	1	0	0	0	0.84	0.78	0	0	0	0	0	0
6/25/2024 20:17	47502	NECO_T1	10	17	7	0.28	0.28	0	1.08	1.07	0	0	0	0	0	0
6/25/2024 20:23	46301	ROHR_T1	100	90	-10	0.2	0.22	0.02	0.34	0.34	0	0	0	0	0	0
6/25/2024 20:23	46302	ROHR_T1	4	2	-2	1.33	2.35	1.02	0.65	0.64	0	0	0	0	0	0
6/25/2024 20:26	46302	ROHR_T1	4	2	-2	1.33	2.35	1.02	0	0	0	0	0	0	0	0
6/25/2024 20:26	46301	ROHR_T1	100	90	-10	0.2	0.22	0.02	0.69	0.68	0	0	0	0	0	0
6/25/2024 20:28	56501	ROCK_T2	16	80	64	0.21	0.23	0.02	-1.63	-1.7	0	0	0	0	0	0
6/25/2024 20:33	47002	HUGH_T2	3	0	-3	1.17	0	-1.17	0	0	0	0	0	0	0	0
6/25/2024 20:33	47001	HUGH_T2	3	3	0	8.17	8.53	0.36	-0.32	-0.36	0	0	0	0	0	0
6/25/2024 20:37	40601	PIGR_T1	7	19	12	0.16	0.18	0.02	0	0	0	0	0	0	0	0
6/25/2024 20:37	40602	PIGR_T1	0	0	0	0	0	0	-0.45	-0.5	0	0	0	0	0	0
6/25/2024 20:38	40601	PIGR_T1	7	19	12	0.16	0.18	0.02	0	0	0	0	0	0	0	0
6/25/2024 20:38	40602	PIGR_T1	0	0	0	0	0	0	-0.9	-0.99	0	0	0	0	0	0
6/25/2024 21:08	66703	STRA_T1	0	0	0	0	0	0	0.33	0.29	0	0	0	0	0	0
6/25/2024 21:11	66703	STRA_T1	0	0	0	0	0	0	0.33	0.29	0	0	0	0	0	0
6/25/2024 21:16	15601	NSTR_T2	3	3	0	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
6/25/2024 21:16	15603	NSTR_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
6/25/2024 21:20	25503	MADI_T1	0	2	2	0	0.15	0.15	-0.69	-0.7	0	0	0	0	0	0
6/25/2024 21:20	25501	MADI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 21:20	40601	PIGR_T1	11	31	20	0.17	0.23	0.06	0.17	0.14	0	0	0	0	0	0
6/25/2024 21:23	40603	PIGR_T1	0	0	0	0	0	0	0.67	0.65	0	0	0	0	0	0
6/25/2024 21:23	40601	PIGR_T1	11	31	20	0.17	0.23	0.06	0	0	0	0	0	0	0	0
6/25/2024 21:25	44601	SALE_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
6/25/2024 21:26	44601	SALE_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
6/25/2024 21:31	22003	BOHE_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
6/25/2024 21:31	22001	BOHE_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/25/2024 21:41	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 21:41	16302	ALPA_T2	0	0	0	0	0	0	-0.38	-0.42	0	0	0	0	0	0
6/25/2024 21:43	16302	ALPA_T2	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
6/25/2024 21:45	16302	ALPA_T2	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
6/25/2024 22:02	26704	HEML_T2	0	0	0	0	0	0	-0.67	-0.68	1	1	0	1200	1200	0
6/25/2024 22:16	28403	HART_T2	0	0	0	0	0	0	-0.66	-0.68	1	1	0	900	900	0
6/25/2024 22:17	25603	ARRO_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
6/25/2024 22:18	25603	ARRO_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
6/25/2024 22:19	21901	HUMB_T1	0	0	0	0	0	0	-1.88	-1.89	0	0	0	0	0	0
6/25/2024 22:21	12402	MILF_T1	3	5	2	1.53	0.93	-0.6	0.88	0.87	0	0	0	0	0	0
6/25/2024 22:23	11102	EGYP_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
6/25/2024 22:24	24902	WHHA_T1	1	0	-1	0.3	0	-0.3	0.67	0.66	0	0	0	0	0	0
6/25/2024 22:24	40302	TAMA_T3	0	1	1	0	0.1	0.1	0.19	0.19	0	0	0	0	0	0
6/25/2024 22:24	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 22:25	64201	KINZ_T1	5	7	2	0.24	0.34	0.1	-0.27	-0.28	3	3	0	1500	1500	0
6/25/2024 22:25	64204	KINZ_T1	4	4	0	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
6/25/2024 22:25	64202	KINZ_T1	2	3	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/25/2024 22:25	61701	ELIZ_T1	1	1	0	3.9	4.3	0.4	0.56	1.09	0	0	0	0	0	0
6/25/2024 22:26	59101	WALK_T2	0	0	0	0	0	0	-0.28	-0.36	0	0	0	0	0	0
6/25/2024 22:26	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/25/2024 22:27	17002	RIRO_T2	1	1	0	1.3	1.5	0.2	0.59	0.58	0	0	0	0	0	0
6/25/2024 22:27	24102	EHAZ_T1	1	0	-1	0.5	0	-0.5	0.33	0.31	0	0	0	0	0	0
6/25/2024 22:27	24105	EHAZ_T1	4	4	0	5.58	5.78	0.2	0	0	0	0	0	0	0	0
6/25/2024 22:28	15702	TANN_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
6/25/2024 22:28	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/25/2024 22:28	13503	MCMI_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
6/25/2024 22:28	13501	MCMI_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
6/25/2024 22:28	10702	CATA_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
6/25/2024 22:28	64204	KINZ_T1	4	4	0	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
6/25/2024 22:28	20603	GRWO_T2	2	15	13	0.1	0.18	0.08	0	0	0	0	0	0	0	0
6/25/2024 22:28	64202	KINZ_T1	2	3	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/25/2024 22:28	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
6/25/2024 22:28	64201	KINZ_T1	5	7	2	0.24	0.34	0.1	-0.27	-0.28	3	3	0	1500	1500	0
6/25/2024 22:28	20601	GRWO_T2	1	1	0	0.2	0	-0.2	0.36	0.34	0	0	0	0	0	0
6/25/2024 22:29	12302	LANA_T2	0	0	0	0	0	0	-2.14	-2.18	3	3	0	2700	2700	0
6/25/2024 22:29	20401	ASHF_T2	0	2	2	0	0.1	0.1	0.14	0.11	0	0	0	0	0	0
6/25/2024 22:29	11104	EGYP_T1	0	0	0	0	0	0	0.66	0.62	0	0	0	0	0	0
6/25/2024 22:30	60305	TWVA_T2	0	0	0	0	0	0	-1.81	-1.81	2	2	0	2400	2400	0
6/25/2024 22:30	61102	BERK_T5	0	0	0	0	0	0	-0.09	-0.01	1	1	0	300	300	0
6/25/2024 22:30	29402	BELT_T1	1	27	26	9.2	0.53	-8.67	0	0	0	0	0	0	0	0
6/25/2024 22:30	13303	ORVI_T1	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
6/25/2024 22:30	14404	SSLA_T1	1	1	0	4.1	4.7	0.6	0	0	0	0	0	0	0	0
6/25/2024 22:30	61303	EARL_T1	0	0	0	0	0	0	0.33	0.47	0	0	0	0	0	0
6/25/2024 22:30	22001	BOHE_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
6/25/2024 22:30	14403	SSLA_T1	0	0	0	0	0	0	1.01	0.95	0	0	0	0	0	0
6/25/2024 22:30	60201	ATGL_T2	0	0	0	0	0	0	0.46	0.38	1	1	0	300	300	0
6/25/2024 22:30	22003	BOHE_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/25/2024 22:30	29401	BELT_T1	0	11	11	0	0.12	0.12	0	0	1	1	0	900	900	0
6/25/2024 22:31	66901	SHII_T2	10	0	-10	0.1	0	-0.1	-0.64	-0.6	0	0	0	0	0	0
6/25/2024 22:31	65603	QVIL_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
6/25/2024 22:31	20603	GRWO_T2	7	16	9	0.14	0.19	0.05	-0.45	-0.45	1	1	0	900	900	0
6/25/2024 22:31	20403	ASHF_T2	0	0	0	0	0	0	0.65	0.69	0	0	0	0	0	0
6/25/2024 22:31	61102	BERK_T5	0	0	0	0	0	0	-0.09	-0.01	1	1	0	300	300	0
6/25/2024 22:31	20601	GRWO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/25/2024 22:31	13503	MCMI_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
6/25/2024 22:31	48302	ORWI_T2	2	2	0	0.55	0.8	0.25	-0.41	-0.43	0	0	0	0	0	0
6/25/2024 22:31	29401	BELT_T1	0	11	11	0	0.12	0.12	0	0	1	1	0	900	900	0
6/25/2024 22:31	11101	EGYP_T1	0	0	0	0	0	0	0.85	0.84	0	0	0	0	0	0
6/25/2024 22:31	20401	ASHF_T2	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
6/25/2024 22:31	66902	SHII_T2	10	0	-10	0.16	0	-0.16	0	0	0	0	0	0	0	0
6/25/2024 22:31	63401	HONY_T1	0	0	0	0	0	0	0.15	0.17	1	1	0	600	600	0
6/25/2024 22:31	29402	BELT_T1	1	27	26	9.2	0.53	-8.67	0	0	0	0	0	0	0	0
6/25/2024 22:31	23202	HIRU_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
6/25/2024 22:32	61102	BERK_T5	0	0	0	0	0	0	-0.09	-0.01	1	1	0	300	300	0
6/25/2024 22:32	25402	LAHA_T2	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
6/25/2024 22:32	64701	LITI_T1	0	0	0	0	0	0	-0.35	-0.39	1	1	0	900	900	0
6/25/2024 22:32	20601	GRWO_T2	1	0	-1	0.2	0	-0.2	0.36	0.34	0	0	0	0	0	0
6/25/2024 22:32	48302	ORWI_T2	2	2	0	0.55	0.8	0.25	-0.41	-0.43	0	0	0	0	0	0
6/25/2024 22:32	60201	ATGL_T2	0	0	0	0	0	0	0.46	0.38	1	1	0	300	300	0
6/25/2024 22:32	11507	FREE_T2	1	23	22	0.8	0.9	0.1	0.58	1.04	1	1	0	600	600	0
6/25/2024 22:32	20603	GRWO_T2	7	16	9	0.14	0.19	0.05	0	0	0	0	0	0	0	0
6/25/2024 22:32	25404	LAHA_T2	0	15	15	0	0.11	0.11	0	0	0	0	0	0	0	0
6/25/2024 22:33	20403	ASHF_T2	0	0	0	0	0	0	0.65	0.69	0	0	0	0	0	0
6/25/2024 22:33	12606	MACA_T1	11	2	-9	0.31	0	-0.31	0	0	0	0	0	0	0	0
6/25/2024 22:33	12601	MACA_T1	1	0	-1	0.2	0	-0.2	1.16	1.14	0	0	0	0	0	0
6/25/2024 22:33	60801	BUCK_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
6/25/2024 22:33	10707	CATA_T2	0	0	0	0	0	0	0.7	0.71	0	0	0	0	0	0
6/25/2024 22:33	20401	ASHF_T2	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
6/25/2024 22:33	12701	MACU_T1	0	0	0	0	0	0	-1.77	-1.8	2	2	0	2400	2400	0
6/25/2024 22:33	60201	ATGL_T2	0	0	0	0	0	0	0.46	0.38	1	1	0	300	300	0
6/25/2024 22:33	11103	EGYP_T1	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
6/25/2024 22:34	66504	SMAN_T2	0	0	0	0	0	0	-0.77	-0.9	1	1	0	1200	1200	0
6/25/2024 22:34	61102	BERK_T5	0	0	0	0	0	0	-0.09	-0.01	1	1	0	300	300	0
6/25/2024 22:34	67503	WEWI_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
6/25/2024 22:35	51004	NHAR_T1	1	1	0	6.7	6.5	-0.2	-1.4	-1.44	0	0	0	0	0	0
6/25/2024 22:35	56802	BENV_T2	0	0	0	0	0	0	-1.06	-1.1	0	0	0	0	0	0
6/25/2024 22:35	12301	LANA_T2	0	0	0	0	0	0	-0.94	-0.99	1	1	0	1200	1200	0
6/25/2024 22:35	51003	NHAR_T1	4	0	-4	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/25/2024 22:35	41303	FISH_T1	1	1	0	3.9	2.6	-1.3	0	0	0	0	0	0	0	0
6/25/2024 22:35	28703	HAML_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/25/2024 22:35	64902	MILL_T2	0	0	0	0	0	0	-0.18	-0.85	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/25/2024 22:35	11104	EGYP_T1	0	0	0	0	0	0	0.66	0.62	0	0	0	0	0	0
6/25/2024 22:35	63402	HONY_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
6/25/2024 22:35	61102	BERK_T5	0	0	0	0	0	0	-0.09	-0.01	1	1	0	300	300	0
6/25/2024 22:35	28704	HAML_T2	1	1	0	0.9	0.2	-0.7	0.04	0.04	0	0	0	0	0	0
6/25/2024 22:35	63403	HONY_T2	0	0	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
6/25/2024 22:35	41301	FISH_T1	2	3	1	1	0.8	-0.2	-0.44	-0.45	0	0	0	0	0	0
6/25/2024 22:35	65001	NEFF_T2	0	0	0	0	0	0	-0.32	-0.28	1	1	0	1200	1200	0
6/25/2024 22:35	51002	NHAR_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/25/2024 22:35	63401	HONY_T1	0	0	0	0	0	0	0.15	0.17	1	1	0	600	600	0
6/25/2024 22:36	63401	HONY_T1	0	0	0	0	0	0	0.17	0.2	1	1	0	600	600	0
6/25/2024 22:36	11103	EGYP_T1	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
6/25/2024 22:36	46203	DANV_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
6/25/2024 22:36	67402	WAKE_T2	0	0	0	0	0	0	-0.03	-0.04	1	1	0	600	600	0
6/25/2024 22:36	67603	WARW_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
6/25/2024 22:36	61701	ELIZ_T1	1	1	0	4.3	3.9	-0.4	1.09	0.66	0	0	0	0	0	0
6/25/2024 22:36	23203	HIRU_T2	0	0	0	0	0	0	0.15	0.09	0	0	0	0	0	0
6/25/2024 22:36	61001	DONV_T1	0	0	0	0	0	0	0.22	0.17	0	0	0	0	0	0
6/25/2024 22:36	67805	WLAN_T1	7	0	-7	0.11	0	-0.11	0	0	0	0	0	0	0	0
6/25/2024 22:36	47401	PENS_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
6/25/2024 22:36	46206	DANV_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/25/2024 22:36	61301	EARL_T1	0	0	0	0	0	0	-1.34	-1.35	2	2	0	1800	1800	0
6/25/2024 22:36	63305	GREE_T1	0	0	0	0	0	0	-1.92	-1.93	0	1	1	0	900	900
6/25/2024 22:36	63303	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/25/2024 22:36	67803	WLAN_T1	0	0	0	0	0	0	-0.37	-0.41	0	0	0	0	0	0
6/25/2024 22:36	61102	BERK_T5	0	0	0	0	0	0	-0.03	-0.24	2	2	0	600	600	0
6/25/2024 22:36	12701	MACU_T1	0	0	0	0	0	0	-0.9	-0.92	1	1	0	1200	1200	0
6/25/2024 22:37	56504	ROCK_T2	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
6/25/2024 22:37	56501	ROCK_T2	3	7	4	0.47	0.44	-0.03	0	0	0	0	0	0	0	0
6/25/2024 22:37	63304	GREE_T1	0	0	0	0	0	0	-1.25	-1.3	0	0	0	0	0	0
6/25/2024 22:37	12001	HATF_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/25/2024 22:37	63501	HEID_TBK1-2	0	1	1	0	0.4	0.4	-0.03	-0.07	1	1	0	900	900	0
6/25/2024 22:37	28703	HAML_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/25/2024 22:37	64101	REFR_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
6/25/2024 22:37	12002	HATF_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/25/2024 22:37	62105	ELAN_T1	0	0	0	0	0	0	1.01	0.99	0	0	0	0	0	0
6/25/2024 22:37	61102	BERK_T5	0	0	0	0	0	0	-0.01	-0.12	1	1	0	300	300	0
6/25/2024 22:37	67801	WLAN_T1	0	0	0	0	0	0	-0.08	-0.13	0	0	0	0	0	0
6/25/2024 22:37	28702	HAML_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
6/25/2024 22:37	20403	ASHF_T2	0	0	0	0	0	0	0.69	0.6	0	0	0	0	0	0
6/25/2024 22:37	55101	WERT_T1	0	0	0	0	0	0	-2.13	-1.25	3	2	-1	2700	1800	-900
6/25/2024 22:37	22001	BOHE_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
6/25/2024 22:37	12006	HATF_T1	0	0	0	0	0	0	-0.92	-0.93	2	2	0	2400	2400	0
6/25/2024 22:37	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
6/25/2024 22:37	43402	BENT_T1	0	88	88	0	0.38	0.38	0.07	0.07	0	0	0	0	0	0
6/25/2024 22:37	67805	WLAN_T1	7	0	-7	0.11	0	-0.11	0	0	0	0	0	0	0	0
6/25/2024 22:37	46001	BERW_T1	0	0	0	0	0	0	0.99	0.96	0	0	0	0	0	0
6/25/2024 22:37	56802	BENV_T2	0	0	0	0	0	0	-2.19	-2.26	0	0	0	0	0	0
6/25/2024 22:37	22003	BOHE_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/25/2024 22:37	66504	SMAN_T2	0	0	0	0	0	0	-1.8	-1.91	2	2	0	2400	2400	0
6/25/2024 22:37	28704	HAML_T2	1	1	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
6/25/2024 22:37	20401	ASHF_T2	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
6/25/2024 22:37	63303	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/25/2024 22:38	67602	WARW_T2	0	0	0	0	0	0	0.13	0.1	2	2	0	1500	1500	0
6/25/2024 22:38	47401	PENS_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
6/25/2024 22:38	28805	LAKE_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
6/25/2024 22:38	64902	MILL_T2	0	0	0	0	0	0	-0.85	-0.87	1	1	0	900	900	0
6/25/2024 22:38	29401	BELT_T1	0	11	11	0	0.12	0.12	0	0	1	1	0	900	900	0
6/25/2024 22:38	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 22:38	14404	SSLA_T1	1	1	0	4.1	4.7	0.6	0	0	0	0	0	0	0	0
6/25/2024 22:38	56501	ROCK_T2	3	7	4	0.47	0.44	-0.03	-2.02	-2.1	0	0	0	0	0	0
6/25/2024 22:38	29402	BELT_T1	1	27	26	9.2	0.53	-8.67	0	0	0	0	0	0	0	0
6/25/2024 22:38	14403	SSLA_T1	0	0	0	0	0	0	0.95	0.89	0	0	0	0	0	0
6/25/2024 22:38	52002	LING_T2	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
6/25/2024 22:38	52004	LING_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
6/25/2024 22:38	60201	ATGL_T2	0	0	0	0	0	0	0.38	0.38	1	1	0	300	300	0
6/25/2024 22:38	67605	WARW_T1	0	0	0	0	0	0	-3.37	-3.49	0	0	0	0	0	0
6/25/2024 22:38	60502	NMAN_T2	0	0	0	0	0	0	0.09	0	0	0	0	0	0	0
6/25/2024 22:38	46001	BERW_T1	0	0	0	0	0	0	0.99	0.96	0	0	0	0	0	0
6/25/2024 22:38	64101	REFR_T1	0	0	0	0	0	0	0.7	0.66	0	0	0	0	0	0
6/25/2024 22:38	67203	TEHI_T1	0	0	0	0	0	0	2.39	2.45	2	2	0	1500	1500	0
6/25/2024 22:38	60501	NMAN_T2	3	3	0	3.83	4.2	0.37	0	0	0	0	0	0	0	0
6/25/2024 22:38	65205	PRIN_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
6/25/2024 22:39	20603	GRWO_T2	7	16	9	0.14	0.19	0.05	0	0	0	0	0	0	0	0
6/25/2024 22:39	20601	GRWO_T2	1	0	-1	0.2	0	-0.2	0.34	0.33	0	0	0	0	0	0
6/25/2024 22:39	66505	SMAN_T2	0	0	0	0	0	0	-0.04	-0.09	3	3	0	2100	2100	0
6/25/2024 22:39	56504	ROCK_T2	0	0	0	0	0	0	0.11	0.03	0	0	0	0	0	0
6/25/2024 22:39	56801	BENV_T1	5	9	4	0.6	1.13	0.53	-0.82	-0.88	2	2	0	1200	1200	0
6/25/2024 22:39	53601	DALM_T2	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
6/25/2024 22:39	56501	ROCK_T2	3	7	4	0.47	0.44	-0.03	0	0	0	0	0	0	0	0
6/25/2024 22:39	55002	NEWP_T1	2	2	0	0.3	0.5	0.2	-0.05	-0.06	0	0	0	0	0	0
6/25/2024 22:39	56803	BENV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/25/2024 22:40	55002	NEWP_T1	2	2	0	0.3	0.5	0.2	-0.05	-0.06	0	0	0	0	0	0
6/25/2024 22:40	42902	MIDD_T2	0	0	0	0	0	0	-0.89	-0.89	1	1	0	600	600	0
6/25/2024 22:40	56803	BENV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/25/2024 22:40	59003	MIFF_T1	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
6/25/2024 22:40	59002	MIFF_T1	0	5	5	0	0.24	0.24	0	0	0	0	0	0	0	0
6/25/2024 22:40	61102	BERK_T5	0	0	0	0	0	0	-0.01	-0.12	1	1	0	300	300	0
6/25/2024 22:40	56504	ROCK_T2	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
6/25/2024 22:40	28805	LAKE_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
6/25/2024 22:40	55101	WERT_T1	0	0	0	0	0	0	-2.13	-1.25	3	2	-1	2700	1800	-900
6/25/2024 22:40	56801	BENV_T1	5	9	4	0.6	1.13	0.53	-0.82	-0.88	2	2	0	1200	1200	0
6/25/2024 22:40	43402	BENT_T1	0	88	88	0	0.38	0.38	0.07	0.07	0	0	0	0	0	0
6/25/2024 22:40	67605	WARW_T1	0	0	0	0	0	0	-1.12	-1.16	0	0	0	0	0	0
6/25/2024 22:40	67602	WARW_T2	0	0	0	0	0	0	0.13	0.1	2	2	0	1500	1500	0
6/25/2024 22:40	46001	BERW_T1	0	0	0	0	0	0	0.99	0.96	0	0	0	0	0	0
6/25/2024 22:40	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
6/25/2024 22:40	56501	ROCK_T2	3	7	4	0.47	0.44	-0.03	-2.02	-2.1	0	0	0	0	0	0
6/25/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	0.7	0.66	0	0	0	0	0	0
6/25/2024 22:40	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 22:41	43201	MVIL_T2	0	49	49	0	0.13	0.13	-0.25	-0.26	0	0	0	0	0	0
6/25/2024 22:41	43301	WATS_T2	1	0	-1	0.3	0	-0.3	-0.34	-0.36	1	1	0	900	900	0
6/25/2024 22:41	12701	MACU_T1	0	0	0	0	0	0	-0.9	-0.92	1	1	0	1200	1200	0
6/25/2024 22:41	43202	MVIL_T2	54	251	197	0.46	0.93	0.47	-0.57	-0.58	0	0	0	0	0	0
6/25/2024 22:41	26401	INOR_T1	1	1	0	9.1	9.4	0.3	0	0	0	0	0	0	0	0
6/25/2024 22:41	56501	ROCK_T2	3	7	4	0.47	0.44	-0.03	-2.02	-2.1	0	0	0	0	0	0
6/25/2024 22:41	65205	PRIN_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
6/25/2024 22:41	43302	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/25/2024 22:41	56802	BENV_T2	0	0	0	0	0	0	-1.1	-1.13	0	0	0	0	0	0
6/25/2024 22:41	43304	WATS_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
6/25/2024 22:41	60501	NMAN_T2	3	3	0	3.83	4.2	0.37	0	0	0	0	0	0	0	0
6/25/2024 22:41	26402	INOR_T1	0	11	11	0	0.15	0.15	-1.18	-1.19	0	0	0	0	0	0
6/25/2024 22:41	46206	DANV_T2	1	1	0	0.2	0	-0.2	3.69	3.87	4	4	0	4200	4200	0
6/25/2024 22:41	60502	NMAN_T2	0	0	0	0	0	0	0.09	0	0	0	0	0	0	0
6/25/2024 22:41	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
6/25/2024 22:41	23901	EFMO_T2	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
6/25/2024 22:41	46802	HEPB_T1	1	0	-1	0.2	0	-0.2	0.04	0.02	0	0	0	0	0	0
6/25/2024 22:41	42902	MIDD_T2	0	0	0	0	0	0	-0.89	-0.89	1	1	0	600	600	0
6/25/2024 22:42	43202	MVIL_T2	54	251	197	0.46	0.93	0.47	-0.57	-0.58	0	0	0	0	0	0
6/25/2024 22:42	47001	HUGH_T2	3	3	0	7.97	7.5	-0.47	-0.58	-0.62	0	0	0	0	0	0
6/25/2024 22:42	51003	NHAR_T1	4	0	-4	0.35	0	-0.35	-1.17	-1.12	1	1	0	1200	1200	0
6/25/2024 22:42	46203	DANV_T2	0	0	0	0	0	0	-1.29	-1.37	0	0	0	0	0	0
6/25/2024 22:42	56802	BENV_T2	0	0	0	0	0	0	-1.1	-1.13	0	0	0	0	0	0
6/25/2024 22:42	67805	WLAN_T1	7	0	-7	0.11	0	-0.11	0	0	0	0	0	0	0	0
6/25/2024 22:42	56801	BENV_T1	5	9	4	0.6	1.13	0.53	-0.82	-0.88	2	2	0	1200	1200	0
6/25/2024 22:42	58001	WCAR_T1	0	4	4	0	0.68	0.68	0	0	0	0	0	0	0	0
6/25/2024 22:42	47101	MARL_T1	5	1	-4	0.14	0	-0.14	-0.46	-0.47	0	0	0	0	0	0
6/25/2024 22:42	53903	HALI_T2	2	2	0	0.65	0.7	0.05	0.01	0	0	0	0	0	0	0
6/25/2024 22:42	66502	SMAN_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
6/25/2024 22:42	11804	FRAN_T1	9	1	-8	0.51	0	-0.51	0.07	0.02	1	1	0	1200	1200	0
6/25/2024 22:42	46001	BERW_T1	0	0	0	0	0	0	1.97	1.93	0	0	0	0	0	0
6/25/2024 22:42	58003	WCAR_T1	1	1	0	0.8	1.1	0.3	0.99	0.98	0	0	0	0	0	0
6/25/2024 22:42	64101	REFR_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
6/25/2024 22:42	21206	ECAR_T2	1	1	0	7.8	7.4	-0.4	0.12	0.15	0	0	0	0	0	0
6/25/2024 22:42	48901	FOSP_T2	0	0	0	0	0	0	-0.36	-0.37	1	1	0	600	600	0
6/25/2024 22:42	47002	HUGH_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/25/2024 22:42	67801	WLAN_T1	0	0	0	0	0	0	-0.08	-0.13	0	0	0	0	0	0
6/25/2024 22:42	43201	MVIL_T2	0	49	49	0	0.13	0.13	0	0	0	0	0	0	0	0
6/25/2024 22:42	42902	MIDD_T2	0	0	0	0	0	0	-0.89	-0.89	1	1	0	600	600	0
6/25/2024 22:42	56803	BENV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/25/2024 22:42	53902	HALI_T2	1	1	0	4.9	4.6	-0.3	0	0	0	0	0	0	0	0
6/25/2024 22:42	46206	DANV_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/25/2024 22:42	52503	PROG_T2	0	0	0	0	0	0	-0.32	-0.33	1	1	0	900	900	0
6/25/2024 22:42	47401	PENS_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
6/25/2024 22:42	51002	NHAR_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/25/2024 22:42	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 22:42	51004	NHAR_T1	1	1	0	6.7	6.5	-0.2	0	0	0	0	0	0	0	0
6/25/2024 22:42	56501	ROCK_T2	3	7	4	0.47	0.44	-0.03	-6.05	-6.29	0	0	0	0	0	0
6/25/2024 22:43	53903	HALI_T2	2	2	0	0.65	0.7	0.05	0.01	0	0	0	0	0	0	0
6/25/2024 22:43	52402	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/25/2024 22:43	43202	MVIL_T2	54	251	197	0.46	0.93	0.47	0	0	0	0	0	0	0	0
6/25/2024 22:43	46203	DANV_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
6/25/2024 22:43	55101	WERT_T1	0	0	0	0	0	0	-2.13	-1.25	3	2	-1	2700	1800	-900
6/25/2024 22:43	52004	LING_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
6/25/2024 22:43	46206	DANV_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/25/2024 22:43	52403	GRPA_T2	42	22	-20	0.57	0.43	-0.14	0	0	0	0	0	0	0	0
6/25/2024 22:43	47401	PENS_T1	0	0	0	0	0	0	0.42	0.32	0	0	0	0	0	0
6/25/2024 22:43	56501	ROCK_T2	3	7	4	0.47	0.44	-0.03	-6.05	-6.29	0	0	0	0	0	0
6/25/2024 22:43	53902	HALI_T2	1	1	0	4.9	4.6	-0.3	0	0	0	0	0	0	0	0
6/25/2024 22:43	43201	MVIL_T2	0	49	49	0	0.13	0.13	-0.25	-0.26	0	0	0	0	0	0
6/25/2024 22:43	46001	BERW_T1	0	0	0	0	0	0	0.99	0.96	0	0	0	0	0	0
6/25/2024 22:43	58003	WCAR_T1	1	1	0	0.8	1.1	0.3	0.99	0.98	0	0	0	0	0	0
6/25/2024 22:43	52404	GRPA_T2	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
6/25/2024 22:43	56802	BENV_T2	0	0	0	0	0	0	-2.19	-2.26	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/25/2024 22:43	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/25/2024 22:43	58001	WCAR_T1	0	4	4	0	0.68	0.68	0	0	0	0	0	0	0	0
6/25/2024 22:43	58702	ROSE_T2	0	0	0	0	0	0	-2.08	-2.12	0	0	0	0	0	0
6/25/2024 22:43	55003	NEWP_T2	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0
6/25/2024 22:43	58706	ROSE_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/25/2024 22:43	43402	BENT_T1	0	88	88	0	0.38	0.38	0.07	0.07	0	0	0	0	0	0
6/25/2024 22:44	56803	BENV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/25/2024 22:44	44301	BEAV_T2	1	2	1	1.4	0	-1.4	0.55	0.63	1	1	0	600	600	0
6/25/2024 22:44	22003	BOHE_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/25/2024 22:44	53501	EVIL_T2	0	2	2	0	0.3	0.3	0.2	0.2	0	0	0	0	0	0
6/25/2024 22:44	52403	GRPA_T2	42	22	-20	0.57	0.43	-0.14	0	0	0	0	0	0	0	0
6/25/2024 22:44	47502	NECO_T1	1	1	0	0.4	0.6	0.2	0.97	0.95	0	0	0	0	0	0
6/25/2024 22:44	15703	TANN_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
6/25/2024 22:44	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/25/2024 22:44	22002	BOHE_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
6/25/2024 22:44	52402	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/25/2024 22:44	53802	MBRG_T2	0	0	0	0	0	0	1.1	1.15	0	0	0	0	0	0
6/25/2024 22:44	53903	HALI_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
6/25/2024 22:44	53902	HALI_T2	1	1	0	4.9	4.6	-0.3	0	0	0	0	0	0	0	0
6/25/2024 22:44	43202	MVIL_T2	54	251	197	0.46	0.93	0.47	-0.57	-0.58	0	0	0	0	0	0
6/25/2024 22:44	47101	MARL_T1	5	1	-4	0.14	0	-0.14	-0.46	-0.47	0	0	0	0	0	0
6/25/2024 22:44	64101	REFR_T1	0	0	0	0	0	0	0.7	0.66	0	0	0	0	0	0
6/25/2024 22:44	53901	HALI_T2	0	0	0	0	0	0	-1.19	-1.21	0	0	0	0	0	0
6/25/2024 22:44	56801	BENV_T1	5	9	4	0.6	1.13	0.53	-0.82	-0.88	2	2	0	1200	1200	0
6/25/2024 22:44	44801	EDAN_T2	1	1	0	0.8	0	-0.8	0.64	0.63	0	0	0	0	0	0
6/25/2024 22:44	51003	NHAR_T1	4	0	-4	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/25/2024 22:44	56802	BENV_T2	0	0	0	0	0	0	-1.1	-1.13	0	0	0	0	0	0
6/25/2024 22:44	42902	MIDD_T2	0	0	0	0	0	0	-0.89	-0.89	1	1	0	600	600	0
6/25/2024 22:44	45802	HEGI_T2	7	7	0	0.26	0.33	0.07	0.17	0.11	1	1	0	900	900	0
6/25/2024 22:44	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/25/2024 22:44	43201	MVIL_T2	0	49	49	0	0.13	0.13	0	0	0	0	0	0	0	0
6/25/2024 22:44	51004	NHAR_T1	1	1	0	6.7	6.5	-0.2	-1.44	-1.48	0	0	0	0	0	0
6/25/2024 22:44	15702	TANN_T2	0	0	0	0	0	0	-0.23	-0.19	0	0	0	0	0	0
6/25/2024 22:44	51002	NHAR_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/25/2024 22:44	66504	SMAN_T2	0	0	0	0	0	0	-0.9	-0.95	1	1	0	1200	1200	0
6/25/2024 22:44	52404	GRPA_T2	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
6/25/2024 22:45	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/25/2024 22:45	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
6/25/2024 22:45	43301	WATS_T2	0	0	0	0	0	0	-0.34	-0.36	1	1	0	900	900	0
6/25/2024 22:45	63304	GREE_T1	0	0	0	0	0	0	-1.25	-1.3	0	0	0	0	0	0
6/25/2024 22:45	46203	DANV_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
6/25/2024 22:45	44301	BEAV_T2	1	0	-1	0.7	0	-0.7	0.55	0.63	1	1	0	600	600	0
6/25/2024 22:45	64101	REFR_T1	0	0	0	0	0	0	1.4	1.32	0	0	0	0	0	0
6/25/2024 22:45	42201	SHEN_T2	0	1	1	0	0	0	0.27	0.26	1	1	0	600	600	0
6/25/2024 22:45	52501	PROG_T1	0	0	0	0	0	0	0.4	0.33	1	1	0	300	300	0
6/25/2024 22:45	41902	REED_T1	0	0	0	0	0	0	0.5	0.49	1	1	0	900	900	0
6/25/2024 22:45	44801	EDAN_T2	1	1	0	0.6	0	-0.6	0.64	0.63	0	0	0	0	0	0
6/25/2024 22:45	42203	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 22:45	41901	REED_T1	8	9	1	0.4	0.48	0.08	0	0	0	0	0	0	0	0
6/25/2024 22:45	46206	DANV_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/25/2024 22:45	23401	HONE_T2	1	0	-1	0.3	0	-0.3	-0.29	-0.31	0	0	0	0	0	0
6/25/2024 22:45	52002	LING_T2	0	0	0	0	0	0	1.12	1.06	0	0	0	0	0	0
6/25/2024 22:46	58401	MORO_T1	0	0	0	0	0	0	-1.31	-1.34	2	2	0	1200	1200	0
6/25/2024 22:46	15702	TANN_T2	0	0	0	0	0	0	-0.23	-0.19	0	0	0	0	0	0
6/25/2024 22:46	52401	GRPA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
6/25/2024 22:46	67605	WARW_T1	0	0	0	0	0	0	-1.12	-1.16	0	0	0	0	0	0
6/25/2024 22:46	54501	ENOL_T2	0	0	0	0	0	0	-0.14	-0.16	1	1	0	600	600	0
6/25/2024 22:46	56801	BENV_T1	9	10	1	0.69	1.1	0.41	-0.41	-0.44	1	1	0	600	600	0
6/25/2024 22:46	44301	BEAV_T2	1	0	-1	0.7	0	-0.7	0.55	0.63	1	1	0	600	600	0
6/25/2024 22:46	61803	EELI_T2	0	0	0	0	0	0	0.88	0.86	0	0	0	0	0	0
6/25/2024 22:46	52403	GRPA_T2	22	13	-9	0.7	0.2	-0.5	0.35	0.33	0	0	0	0	0	0
6/25/2024 22:46	15703	TANN_T2	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
6/25/2024 22:46	54701	NEBL_T1	1	1	0	0.9	0.9	0	0	0	1	1	0	600	600	0
6/25/2024 22:46	24901	WHHA_T1	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
6/25/2024 22:46	62102	ELAN_T1	0	0	0	0	0	0	0.43	1.32	0	0	0	0	0	0
6/25/2024 22:46	52402	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/25/2024 22:47	52403	GRPA_T2	22	13	-9	0.7	0.2	-0.5	0.69	0.65	0	0	0	0	0	0
6/25/2024 22:47	67605	WARW_T1	0	0	0	0	0	0	-1.12	-1.16	0	0	0	0	0	0
6/25/2024 22:47	47401	PENS_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
6/25/2024 22:47	42902	MIDD_T2	0	0	0	0	0	0	-0.89	-0.89	1	1	0	600	600	0
6/25/2024 22:47	44301	BEAV_T2	1	0	-1	0.7	0	-0.7	0.55	0.63	1	1	0	600	600	0
6/25/2024 22:47	52501	PROG_T1	0	0	0	0	0	0	0.4	0.33	1	1	0	300	300	0
6/25/2024 22:47	56501	ROCK_T2	5	11	6	0.34	0.37	0.03	-2.02	-2.1	0	0	0	0	0	0
6/25/2024 22:47	52401	GRPA_T2	0	1	1	0	0.6	0.6	-0.42	-0.41	0	0	0	0	0	0
6/25/2024 22:47	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 22:47	52402	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/25/2024 22:47	64101	REFR_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
6/25/2024 22:47	56801	BENV_T1	9	10	1	0.69	1.1	0.41	-0.41	-0.44	1	1	0	600	600	0
6/25/2024 22:47	58401	MORO_T1	0	0	0	0	0	0	-1.31	-1.34	2	2	0	1200	1200	0
6/25/2024 22:47	55101	WERT_T1	0	0	0	0	0	0	-4.27	-2.51	6	4	-2	5400	3600	-1800
6/25/2024 22:48	57303	MOAL_T2	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
6/25/2024 22:48	57401	SPAN_T1	0	0	0	0	0	0	-0.65	-0.67	1	1	0	600	600	0
6/25/2024 22:48	10704	CATA_T2	0	0	0	0	0	0	1.3	1.39	1	1	0	1200	1200	0
6/25/2024 22:48	58401	MORO_T1	0	0	0	0	0	0	-1.31	-1.34	2	2	0	1200	1200	0
6/25/2024 22:48	44301	BEAV_T2	1	0	-1	0.7	0	-0.7	0.55	0.63	1	1	0	600	600	0
6/25/2024 22:48	55101	WERT_T1	0	0	0	0	0	0	-2.13	-1.25	3	2	-1	2700	1800	-900
6/25/2024 22:48	64202	KINZ_T1	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
6/25/2024 22:48	46203	DANV_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
6/25/2024 22:48	67201	TEHI_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
6/25/2024 22:48	56504	ROCK_T2	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
6/25/2024 22:48	46206	DANV_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/25/2024 22:48	56501	ROCK_T2	5	11	6	0.34	0.37	0.03	-2.02	-2.1	0	0	0	0	0	0
6/25/2024 22:48	64203	KINZ_T1	0	0	0	0	0	0	-0.04	-0.07	1	1	0	600	600	0
6/25/2024 22:48	44801	EDAN_T2	1	1	0	0.6	0	-0.6	0.64	0.63	0	0	0	0	0	0
6/25/2024 22:48	67605	WARW_T1	0	0	0	0	0	0	-1.12	-1.16	0	0	0	0	0	0
6/25/2024 22:48	57306	MOAL_T2	0	0	0	0	0	0	-2.77	-2.79	1	1	0	1200	1200	0
6/25/2024 22:48	22602	KIMB_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
6/25/2024 22:48	42902	MIDD_T2	0	0	0	0	0	0	-0.89	-0.89	1	1	0	600	600	0
6/25/2024 22:48	64204	KINZ_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
6/25/2024 22:48	57304	MOAL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/25/2024 22:48	64201	KINZ_T1	1	2	1	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
6/25/2024 22:48	57301	MOAL_T2	1	1	0	2.3	3.1	0.8	0	0	0	0	0	0	0	0
6/25/2024 22:48	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
6/25/2024 22:49	53902	HALI_T2	1	1	0	4.6	4.9	0.3	0	0	0	0	0	0	0	0
6/25/2024 22:49	56801	BENV_T1	9	10	1	0.69	1.1	0.41	-0.41	-0.44	1	1	0	600	600	0
6/25/2024 22:49	61301	EARL_T1	0	0	0	0	0	0	-1.34	-1.35	2	2	0	1800	1800	0
6/25/2024 22:49	26402	INOR_T1	3	16	13	0.1	0.23	0.13	0	0	0	0	0	0	0	0
6/25/2024 22:49	42902	MIDD_T2	0	0	0	0	0	0	-0.89	-0.89	1	1	0	600	600	0
6/25/2024 22:49	26401	INOR_T1	1	1	0	9.4	9.6	0.2	0.6	0.58	0	0	0	0	0	0
6/25/2024 22:49	55101	WERT_T1	0	0	0	0	0	0	-2.13	-1.25	3	2	-1	2700	1800	-900
6/25/2024 22:49	53903	HALI_T2	2	2	0	0.7	0.95	0.25	0.02	0.01	0	0	0	0	0	0
6/25/2024 22:49	47401	PENS_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
6/25/2024 22:50	42201	SHEN_T2	0	1	1	0	0	0	0.27	0.26	1	1	0	600	600	0
6/25/2024 22:50	13503	MCMI_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
6/25/2024 22:50	41901	REED_T1	8	9	1	0.4	0.48	0.08	0	0	0	0	0	0	0	0
6/25/2024 22:50	46203	DANV_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
6/25/2024 22:50	22003	BOHE_T1	1	1	0	0.7	0.8	0.1	0.02	0.02	0	0	0	0	0	0
6/25/2024 22:50	46206	DANV_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/25/2024 22:50	40902	JESH_T1	0	0	0	0	0	0	-1.06	-1.09	1	1	0	600	600	0
6/25/2024 22:50	41902	REED_T1	0	0	0	0	0	0	0.5	0.49	1	1	0	900	900	0
6/25/2024 22:50	42203	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 22:50	40901	JESH_T1	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
6/25/2024 22:50	58402	MORO_T1	0	0	0	0	0	0	-0.76	-0.59	3	3	0	2400	2400	0
6/25/2024 22:50	22001	BOHE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 22:51	44301	BEAV_T2	1	0	-1	0.7	0	-0.7	0.63	0.61	1	1	0	600	600	0
6/25/2024 22:51	47101	MARL_T1	1	0	-1	0.6	0	-0.6	-0.46	-0.47	0	0	0	0	0	0
6/25/2024 22:51	43304	WATS_T2	0	0	0	0	0	0	-0.97	-0.96	0	0	0	0	0	0
6/25/2024 22:52	43304	WATS_T2	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
6/25/2024 22:52	42201	SHEN_T2	0	1	1	0	0	0	0.26	0.29	1	1	0	600	600	0
6/25/2024 22:52	52002	LING_T2	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
6/25/2024 22:52	42203	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 22:52	46101	MACI_T2	0	0	0	0	0	0	0.76	0.76	0	0	0	0	0	0
6/25/2024 22:52	61801	EELI_T2	0	0	0	0	0	0	-0.42	-0.45	1	1	0	600	600	0
6/25/2024 22:52	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 22:54	43304	WATS_T2	0	0	0	0	0	0	-0.97	-0.96	0	0	0	0	0	0
6/25/2024 22:55	46803	HEPB_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
6/25/2024 22:55	43304	WATS_T2	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
6/25/2024 22:55	46203	DANV_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
6/25/2024 22:55	46801	HEPB_T2	2	2	0	0.95	1	0.05	0	0	0	0	0	0	0	0
6/25/2024 22:55	46206	DANV_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/25/2024 22:56	46801	HEPB_T2	2	2	0	0.95	1	0.05	-0.12	-0.13	0	0	0	0	0	0
6/25/2024 22:57	43402	BENT_T1	3	88	85	0.1	0.38	0.28	0.07	0.06	0	0	0	0	0	0
6/25/2024 22:58	25603	ARRO_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
6/25/2024 22:58	43402	BENT_T1	3	88	85	0.1	0.38	0.28	0.07	0.06	0	0	0	0	0	0
6/25/2024 22:58	25602	ARRO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/25/2024 23:01	21203	ECAR_T1	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
6/25/2024 23:04	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/25/2024 23:04	43304	WATS_T2	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
6/25/2024 23:10	14403	SSLA_T1	0	0	0	0	0	0	0.89	0.92	0	0	0	0	0	0
6/25/2024 23:10	14404	SSLA_T1	1	1	0	4.7	4.8	0.1	0	0	0	0	0	0	0	0
6/25/2024 23:18	43402	BENT_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
6/25/2024 23:19	43402	BENT_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
6/25/2024 23:27	47101	MARL_T1	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
6/25/2024 23:39	43402	BENT_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
6/25/2024 23:40	43402	BENT_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
6/26/2024 0:00	43402	BENT_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
6/26/2024 0:01	43402	BENT_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
6/26/2024 0:14	11103	EGYP_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
6/26/2024 0:20	13905	SEID_T1	0	0	0	0	0	0	-0.7	-0.72	1	1	0	1200	1200	0
6/26/2024 0:20	13902	SEID_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/26/2024 0:21	43402	BENT_T1	0	0	0	0	0	0	-0.88	0.04	0	1	1	0	900	900
6/26/2024 0:22	24902	WHHA_T1	2	0	-2	0.1	0	-0.1	0.61	0.61	0	0	0	0	0	0
6/26/2024 0:22	43402	BENT_T1	0	0	0	0	0	0	-0.88	0.04	1	0	-1	900	0	-900

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/26/2024 1:41	61301	EARL_T1	0	0	0	0	0	0	-0.74	-0.74	1	1	0	900	900	0
6/26/2024 1:42	61301	EARL_T1	0	0	0	0	0	0	-0.74	-0.74	1	1	0	900	900	0
6/26/2024 1:43	22701	MINO_T1	0	0	0	0	0	0	-0.78	-0.78	1	1	0	600	600	0
6/26/2024 2:46	61301	EARL_T1	0	0	0	0	0	0	-0.74	-0.74	1	1	0	900	900	0
6/26/2024 2:47	61301	EARL_T1	0	0	0	0	0	0	-0.74	-0.74	1	1	0	900	900	0
6/26/2024 5:06	67603	WARW_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
6/26/2024 5:06	67605	WARW_T1	9	3	-6	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
6/26/2024 5:07	65901	SAKR_T2	1	1	0	7.8	7.4	-0.4	-0.87	-0.84	1	1	0	900	900	0
6/26/2024 6:19	56501	ROCK_T2	0	1	1	0	0	0	-1.18	-1.17	0	0	0	0	0	0
6/26/2024 6:42	22001	BOHE_T1	178	69	-109	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
6/26/2024 6:42	22003	BOHE_T1	80	48	-32	0.24	0.24	0	0	0	0	0	0	0	0	0
6/26/2024 6:42	22002	BOHE_T1	5	2	-3	0.16	0.2	0.04	0.32	0.33	0	0	0	0	0	0
6/26/2024 6:46	53803	MBRG_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
6/26/2024 6:46	63306	GREE_T1	0	0	0	0	0	0	-1.97	-1.95	1	1	0	900	900	0
6/26/2024 6:46	63305	GREE_T1	4	3	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
6/26/2024 6:55	62102	ELAN_T1	0	0	0	0	0	0	1.79	1.86	0	0	0	0	0	0
6/26/2024 6:56	62102	ELAN_T1	0	0	0	0	0	0	0.89	0.93	0	0	0	0	0	0
6/26/2024 6:58	22002	BOHE_T1	2	1	-1	0.2	0.1	-0.1	0.33	0.38	0	0	0	0	0	0
6/26/2024 6:58	22003	BOHE_T1	48	21	-27	0.24	0.18	-0.06	0	0	0	0	0	0	0	0
6/26/2024 6:58	22001	BOHE_T1	69	0	-69	0.12	0	-0.12	0	0	0	0	0	0	0	0
6/26/2024 6:58	62102	ELAN_T1	0	0	0	0	0	0	0.89	0.93	0	0	0	0	0	0
6/26/2024 7:01	22701	MINO_T1	0	0	0	0	0	0	-0.79	-0.73	1	1	0	600	600	0
6/26/2024 7:07	58001	WCAR_T1	4	4	0	0.43	0.88	0.45	0	0	0	0	0	0	0	0
6/26/2024 7:07	58003	WCAR_T1	1	1	0	0.6	1.3	0.7	0.27	0.28	1	1	0	600	600	0
6/26/2024 7:08	67303	WYOM_T2	0	0	0	0	0	0	-1.07	-1.02	0	0	0	0	0	0
6/26/2024 7:08	66504	SMAN_T2	0	0	0	0	0	0	-1.08	-1.13	1	1	0	1200	1200	0
6/26/2024 7:08	66505	SMAN_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/26/2024 7:08	22003	BOHE_T1	21	3	-18	0.18	0.53	0.35	0	0	0	0	0	0	0	0
6/26/2024 7:08	22002	BOHE_T1	1	0	-1	0.1	0	-0.1	0.38	0.36	0	0	0	0	0	0
6/26/2024 7:09	67303	WYOM_T2	0	0	0	0	0	0	-1.07	-1.02	0	0	0	0	0	0
6/26/2024 7:09	65802	RTWN_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
6/26/2024 7:10	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 7:10	40502	CRES_T2	0	12	12	0	0.29	0.29	-0.36	-0.71	0	0	0	0	0	0
6/26/2024 7:10	65802	RTWN_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
6/26/2024 7:11	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 7:11	40502	CRES_T2	0	12	12	0	0.29	0.29	-1.44	-2.85	0	0	0	0	0	0
6/26/2024 7:11	67303	WYOM_T2	0	0	0	0	0	0	-1.07	-1.02	0	0	0	0	0	0
6/26/2024 7:12	67303	WYOM_T2	0	0	0	0	0	0	-1.07	-1.02	0	0	0	0	0	0
6/26/2024 7:12	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 7:12	40502	CRES_T2	0	12	12	0	0.29	0.29	-0.36	-0.71	0	0	0	0	0	0
6/26/2024 7:13	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 7:13	40502	CRES_T2	0	12	12	0	0.29	0.29	-0.72	-1.43	0	0	0	0	0	0
6/26/2024 7:14	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 7:14	40502	CRES_T2	0	12	12	0	0.29	0.29	-0.72	-1.43	0	0	0	0	0	0
6/26/2024 7:18	52502	PROG_T2	0	0	0	0	0	0	-0.52	-0.51	1	1	0	900	900	0
6/26/2024 7:20	55002	NEWP_T1	6	5	-1	0.43	0.62	0.19	0	0	0	0	0	0	0	0
6/26/2024 7:20	55001	NEWP_T1	0	0	0	0	0	0	-0.14	-0.11	0	0	0	0	0	0
6/26/2024 7:22	55001	NEWP_T1	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
6/26/2024 7:22	55002	NEWP_T1	6	5	-1	0.43	0.62	0.19	0	0	0	0	0	0	0	0
6/26/2024 7:23	65602	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 7:23	65603	QVIL_T2	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
6/26/2024 7:26	11102	EGYP_T1	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
6/26/2024 7:27	11102	EGYP_T1	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
6/26/2024 7:29	46206	DANV_T2	2	21	19	1.55	0.24	-1.31	2.21	2.36	1	1	0	1200	1200	0
6/26/2024 7:30	40101	HUNT_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
6/26/2024 7:34	56501	ROCK_T2	0	1	1	0	0	0	-1.12	-1.1	0	0	0	0	0	0
6/26/2024 7:35	15204	SFAR_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
6/26/2024 7:36	15203	SFAR_T2	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
6/26/2024 7:36	15204	SFAR_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
6/26/2024 7:37	15203	SFAR_T2	0	0	0	0	0	0	-1.74	-1.68	0	0	0	0	0	0
6/26/2024 7:37	56501	ROCK_T2	0	1	1	0	0	0	-2.2	-2.09	0	0	0	0	0	0
6/26/2024 7:38	15203	SFAR_T2	0	0	0	0	0	0	-1.74	-1.68	0	0	0	0	0	0
6/26/2024 7:39	15203	SFAR_T2	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
6/26/2024 7:40	15203	SFAR_T2	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
6/26/2024 7:41	61102	BERK_T5	0	0	0	0	0	0	0.25	0.27	1	1	0	300	300	0
6/26/2024 7:42	63306	GREE_T1	0	0	0	0	0	0	-3.76	-3.71	2	2	0	1800	1800	0
6/26/2024 7:43	62102	ELAN_T1	0	0	0	0	0	0	0.94	1.05	0	0	0	0	0	0
6/26/2024 7:43	20401	ASHF_T2	1	2	1	0.7	0.1	-0.6	0.05	0.13	0	0	0	0	0	0
6/26/2024 7:44	63306	GREE_T1	0	0	0	0	0	0	-1.88	-1.86	1	1	0	900	900	0
6/26/2024 7:46	63306	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 7:48	58402	MORO_T1	1	0	-1	0.1	0	-0.1	-0.55	-0.58	3	3	0	2400	2400	0
6/26/2024 7:49	47401	PENS_T1	1	2	1	0.2	0.2	0	0.22	0.26	0	0	0	0	0	0
6/26/2024 7:51	57403	SPAN_T1	1	13	12	0.1	0.2	0.1	0.13	0.13	0	0	0	0	0	0
6/26/2024 7:53	57403	SPAN_T1	1	13	12	0.1	0.2	0.1	0.13	0.13	0	0	0	0	0	0
6/26/2024 7:53	67803	WLAN_T1	0	0	0	0	0	0	-1.3	-1.27	0	0	0	0	0	0
6/26/2024 7:53	67804	WLAN_T1	0	0	0	0	0	0	-0.83	-0.8	0	0	0	0	0	0
6/26/2024 7:53	61103	BERK_T5	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
6/26/2024 7:53	67505	WEWI_T1	0	0	0	0	0	0	0.32	0.33	1	1	0	900	900	0
6/26/2024 7:54	67804	WLAN_T1	0	0	0	0	0	0	-0.83	-0.8	0	0	0	0	0	0
6/26/2024 7:55	67505	WEWI_T1	0	0	0	0	0	0	0.32	0.33	1	1	0	900	900	0
6/26/2024 7:55	61103	BERK_T5	0	0	0	0	0	0	-0.64	-0.59	0	0	0	0	0	0
6/26/2024 8:00	25402	LAHA_T2	0	0	0	0	0	0	-0.72	-0.66	0	0	0	0	0	0
6/26/2024 8:02	25402	LAHA_T2	0	0	0	0	0	0	-0.72	-0.66	0	0	0	0	0	0
6/26/2024 8:06	14403	SSLA_T1	0	0	0	0	0	0	1.12	1.17	0	0	0	0	0	0
6/26/2024 8:06	14404	SSLA_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
6/26/2024 8:07	57002	WHHI_T2	0	0	0	0	0	0	-1.94	-1.92	1	1	0	1200	1200	0
6/26/2024 8:08	14404	SSLA_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
6/26/2024 8:08	14403	SSLA_T1	0	0	0	0	0	0	1.12	1.17	0	0	0	0	0	0
6/26/2024 8:10	46206	DANV_T2	14	6	-8	0.29	1.4	1.11	0	0	0	0	0	0	0	0
6/26/2024 8:10	46203	DANV_T2	0	1	1	0	0	0	-1.73	-1.72	0	0	0	0	0	0
6/26/2024 8:10	56802	BENV_T2	1	1	0	0.2	0.8	0.6	-4.39	-4.3	0	0	0	0	0	0
6/26/2024 8:11	46206	DANV_T2	14	6	-8	0.29	1.4	1.11	0	0	0	0	0	0	0	0
6/26/2024 8:11	46203	DANV_T2	0	1	1	0	0	0	-1.73	-1.72	0	0	0	0	0	0
6/26/2024 8:12	46203	DANV_T2	0	1	1	0	0	0	-1.73	-1.72	0	0	0	0	0	0
6/26/2024 8:12	46206	DANV_T2	14	6	-8	0.29	1.4	1.11	0	0	0	0	0	0	0	0
6/26/2024 8:13	46203	DANV_T2	0	1	1	0	0	0	-1.73	-1.72	0	0	0	0	0	0
6/26/2024 8:13	56802	BENV_T2	1	1	0	0.2	0.8	0.6	-1.1	-1.07	0	0	0	0	0	0
6/26/2024 8:13	46206	DANV_T2	14	6	-8	0.29	1.4	1.11	0	0	0	0	0	0	0	0
6/26/2024 8:15	21203	ECAR_T1	0	0	0	0	0	0	0.97	0.89	0	0	0	0	0	0
6/26/2024 8:18	50501	MECH_T1	4	4	0	1.55	1.1	-0.45	-0.61	-0.59	0	0	0	0	0	0
6/26/2024 8:18	50502	MECH_T1	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
6/26/2024 8:20	44601	SALE_T2	0	0	0	0	0	0	1.3	0.99	1	2	1	600	900	300
6/26/2024 8:21	44601	SALE_T2	0	0	0	0	0	0	0.99	0.95	1	2	1	600	900	300
6/26/2024 8:21	65004	NEFF_T2	0	0	0	0	0	0	-0.71	-0.7	1	1	0	600	600	0
6/26/2024 8:22	15703	TANN_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
6/26/2024 8:22	15702	TANN_T2	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
6/26/2024 8:23	15703	TANN_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
6/26/2024 8:23	58001	WCAR_T1	4	4	0	1.08	1.18	0.1	0.02	0	0	0	0	0	0	0
6/26/2024 8:23	15702	TANN_T2	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
6/26/2024 8:23	58003	WCAR_T1	1	1	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
6/26/2024 8:26	67605	WARW_T1	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
6/26/2024 8:34	46302	ROHR_T1	4	6	2	1.98	1.52	-0.46	0.23	0.24	0	0	0	0	0	0
6/26/2024 8:34	43202	MVIL_T2	88	65	-23	0.54	0.52	-0.02	-0.5	-0.49	0	0	0	0	0	0
6/26/2024 8:34	46301	ROHR_T1	94	139	45	0.2	0.27	0.07	0	0	0	0	0	0	0	0
6/26/2024 8:37	46302	ROHR_T1	4	6	2	1.98	1.52	-0.46	0.24	0.25	0	0	0	0	0	0
6/26/2024 8:37	46301	ROHR_T1	94	139	45	0.2	0.27	0.07	0	0	0	0	0	0	0	0
6/26/2024 8:47	16901	MECK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 8:47	16902	MECK_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
6/26/2024 8:48	52004	LING_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
6/26/2024 8:50	16901	MECK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 8:50	16902	MECK_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
6/26/2024 8:58	47001	HUGH_T2	3	3	0	7.63	7.8	0.17	-0.47	-0.32	0	0	0	0	0	0
6/26/2024 8:59	22903	HARW_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
6/26/2024 8:59	22905	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 9:00	47001	HUGH_T2	3	3	0	7.8	7.47	-0.33	-0.47	-0.32	0	0	0	0	0	0
6/26/2024 9:01	16901	MECK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 9:01	16902	MECK_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
6/26/2024 9:03	13501	MCMI_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
6/26/2024 9:04	58401	MORO_T1	0	0	0	0	0	0	-0.6	-0.58	1	1	0	600	600	0
6/26/2024 9:04	16902	MECK_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
6/26/2024 9:04	16901	MECK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 9:08	67605	WARW_T1	0	0	0	0	0	0	-0.84	-0.82	0	0	0	0	0	0
6/26/2024 9:08	14801	TREI_T2	0	0	0	0	0	0	0.83	0.86	0	0	0	0	0	0
6/26/2024 9:09	58401	MORO_T1	0	0	0	0	0	0	-0.58	-0.56	1	1	0	600	600	0
6/26/2024 9:15	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 9:18	43304	WATS_T2	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
6/26/2024 9:19	64101	REFR_T1	0	0	0	0	0	0	0.72	0.71	0	0	0	0	0	0
6/26/2024 9:20	46206	DANV_T2	19	21	2	0.26	0.26	0	2.3	2.59	1	1	0	1200	1200	0
6/26/2024 9:22	64101	REFR_T1	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
6/26/2024 9:23	64101	REFR_T1	0	0	0	0	0	0	1.42	1.48	0	0	0	0	0	0
6/26/2024 9:23	45303	WBER_T2	0	0	0	0	0	0	0.66	0.6	0	0	0	0	0	0
6/26/2024 9:24	56802	BENV_T2	1	1	0	0.7	0.5	-0.2	-0.98	-0.95	0	0	0	0	0	0
6/26/2024 9:24	64101	REFR_T1	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
6/26/2024 9:29	20601	GRWO_T2	3	44	41	0.27	0.44	0.17	0.86	0.89	0	0	0	0	0	0
6/26/2024 9:29	46203	DANV_T2	0	0	0	0	0	0	-1.59	-1.5	0	0	0	0	0	0
6/26/2024 9:29	46206	DANV_T2	19	21	2	0.26	0.26	0	0	0	0	0	0	0	0	0
6/26/2024 9:31	22903	HARW_T1	0	0	0	0	0	0	0.62	0.69	0	0	0	0	0	0
6/26/2024 9:33	46206	DANV_T2	21	9	-12	0.34	0.22	-0.12	0	0	0	0	0	0	0	0
6/26/2024 9:33	46203	DANV_T2	0	0	0	0	0	0	-1.59	-1.5	0	0	0	0	0	0
6/26/2024 9:35	48302	ORWI_T2	1	779	778	0.2	1.09	0.89	-0.26	-0.26	0	0	0	0	0	0
6/26/2024 9:38	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/26/2024 9:39	20403	ASHF_T2	0	1	1	0	0	0	1.5	1.46	0	0	0	0	0	0
6/26/2024 9:39	20401	ASHF_T2	2	4	2	0.65	1.08	0.43	0	0	0	0	0	0	0	0
6/26/2024 9:39	20402	ASHF_T2	0	10	10	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 9:39	65205	PRIN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/26/2024 9:41	20401	ASHF_T2	2	4	2	0.65	1.08	0.43	0	0	0	0	0	0	0	0
6/26/2024 9:41	20402	ASHF_T2	0	10	10	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 9:41	20403	ASHF_T2	0	1	1	0	0	0	1.5	1.46	0	0	0	0	0	0
6/26/2024 9:49	67201	TEHI_T1	1	20	19	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
6/26/2024 9:49	67203	TEHI_T1	10	9	-1	0.45	0.51	0.06	1.77	1.79	4	4	0	3000	3000	0
6/26/2024 9:50	66504	SMAN_T2	0	0	0	0	0	0	-0.61	-0.62	1	1	0	1200	1200	0
6/26/2024 9:50	55001	NEWP_T1	1	0	-1	0.6	0	-0.6	0.27	-0.78	0	0	0	0	0	0
6/26/2024 9:50	55002	NEWP_T1	2	3	1	0.75	0.7	-0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/26/2024 9:51	55002	NEWP_T1	2	3	1	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
6/26/2024 9:51	55001	NEWP_T1	1	0	-1	0.6	0	-0.6	0.27	-0.78	0	0	0	0	0	0
6/26/2024 9:52	66504	SMAN_T2	0	0	0	0	0	0	-1.24	-1.13	2	2	0	2400	2400	0
6/26/2024 9:52	55001	NEWP_T1	1	0	-1	0.6	0	-0.6	-0.39	-0.36	0	0	0	0	0	0
6/26/2024 9:52	55002	NEWP_T1	2	3	1	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
6/26/2024 9:54	48302	ORWI_T2	0	4	4	0	0	0	-0.22	-0.14	0	0	0	0	0	0
6/26/2024 9:56	24902	WHHA_T1	0	0	0	0	0	0	0.77	0.79	0	0	0	0	0	0
6/26/2024 9:56	24901	WHHA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/26/2024 9:57	24901	WHHA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/26/2024 9:57	24902	WHHA_T1	0	0	0	0	0	0	0.77	0.79	0	0	0	0	0	0
6/26/2024 9:59	64204	KINZ_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
6/26/2024 9:59	64203	KINZ_T1	2	3	1	0.8	1.7	0.9	0	0	0	0	0	0	0	0
6/26/2024 9:59	64201	KINZ_T1	0	100	100	0	0.23	0.23	0.68	0.86	8	8	0	4200	4200	0
6/26/2024 9:59	64202	KINZ_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/26/2024 10:00	64202	KINZ_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/26/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.46	0.49	0	0	0	0	0	0
6/26/2024 10:00	55001	NEWP_T1	0	0	0	0	0	0	-1.17	-1.08	0	0	0	0	0	0
6/26/2024 10:00	40504	CRES_T1	0	5	5	0	0.25	0.25	0	0	0	0	0	0	0	0
6/26/2024 10:00	64201	KINZ_T1	29	101	72	0.23	0.31	0.08	0	0	0	0	0	0	0	0
6/26/2024 10:00	64701	LITI_T1	0	8	8	0	0	0	0.09	0.17	1	1	0	900	900	0
6/26/2024 10:00	13503	MCMI_T2	1	8	7	0.2	0.4	0.2	0.12	-0.75	0	0	0	0	0	0
6/26/2024 10:00	26402	INOR_T1	0	1	1	0	0	0	-1.44	-1.44	1	1	0	600	600	0
6/26/2024 10:00	26401	INOR_T1	1	3	2	6.3	4.7	-1.6	0	0	0	0	0	0	0	0
6/26/2024 10:00	40505	CRES_T1	3	4	1	2.3	1.95	-0.35	0.83	0.87	0	0	0	0	0	0
6/26/2024 10:00	20601	GRWO_T2	86	150	64	0.53	0.53	0	0.91	0.94	0	0	0	0	0	0
6/26/2024 10:00	64802	MONE_T2	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
6/26/2024 10:00	64203	KINZ_T1	3	2	-1	1.4	1.8	0.4	0.73	0.79	3	3	0	2100	2100	0
6/26/2024 10:00	55002	NEWP_T1	3	4	1	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
6/26/2024 10:00	64204	KINZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/26/2024 10:00	67502	WEWI_T2	0	0	0	0	0	0	-0.57	-0.56	1	1	0	900	900	0
6/26/2024 10:07	55001	NEWP_T1	0	0	0	0	0	0	-0.36	-0.33	0	0	0	0	0	0
6/26/2024 10:07	55002	NEWP_T1	3	4	1	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
6/26/2024 10:08	67605	WARW_T1	0	1	1	0	0.5	0.5	-0.7	-0.66	0	0	0	0	0	0
6/26/2024 10:10	20403	ASHF_T2	1	4	3	0.1	0.4	0.3	2.07	1	0	0	0	0	0	0
6/26/2024 10:10	20401	ASHF_T2	4	6	2	1.1	1.03	-0.07	0	0	0	0	0	0	0	0
6/26/2024 10:10	43304	WATS_T2	0	0	0	0	0	0	-0.41	-0.16	0	0	0	0	0	0
6/26/2024 10:10	20402	ASHF_T2	7	0	-7	0.54	0	-0.54	0	0	0	0	0	0	0	0
6/26/2024 10:11	56802	BENV_T2	1	1	0	0.1	0.2	0.1	-3.63	-3.53	0	0	0	0	0	0
6/26/2024 10:11	67605	WARW_T1	0	1	1	0	0.5	0.5	-0.7	-0.66	0	0	0	0	0	0
6/26/2024 10:11	29402	BELT_T1	18	16	-2	0.77	0.86	0.09	0	0	0	0	0	0	0	0
6/26/2024 10:11	44801	EDAN_T2	2	3	1	1.5	1.45	-0.05	0.81	0.83	0	0	0	0	0	0
6/26/2024 10:11	13503	MCMI_T2	1	8	7	0.2	0.4	0.2	-1.5	-1.48	0	0	0	0	0	0
6/26/2024 10:11	29401	BELT_T1	5	39	34	0.18	0.2	0.02	0	0	0	0	0	0	0	0
6/26/2024 10:12	63401	HONY_T1	0	0	0	0	0	0	1.15	1.32	0	0	0	0	0	0
6/26/2024 10:12	20401	ASHF_T2	4	6	2	1.1	1.03	-0.07	0.39	0.48	0	0	0	0	0	0
6/26/2024 10:12	20402	ASHF_T2	7	0	-7	0.54	0	-0.54	0	0	0	0	0	0	0	0
6/26/2024 10:12	20403	ASHF_T2	1	4	3	0.1	0.4	0.3	2.07	1	0	0	0	0	0	0
6/26/2024 10:12	56802	BENV_T2	1	1	0	0.1	0.2	0.1	-0.91	-0.88	0	0	0	0	0	0
6/26/2024 10:12	63404	HONY_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 10:13	56802	BENV_T2	1	1	0	0.1	0.2	0.1	-0.91	-0.88	0	0	0	0	0	0
6/26/2024 10:15	64202	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/26/2024 10:15	52002	LING_T2	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
6/26/2024 10:15	63404	HONY_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 10:15	63401	HONY_T1	0	0	0	0	0	0	1.15	1.32	0	0	0	0	0	0
6/26/2024 10:15	64203	KINZ_T1	2	2	0	1.85	1.5	-0.35	0	0	0	0	0	0	0	0
6/26/2024 10:15	64201	KINZ_T1	99	55	-44	0.3	0.33	0.03	0.43	0.37	4	4	0	2100	2100	0
6/26/2024 10:15	64204	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/26/2024 10:16	52402	GRPA_T2	4	4	0	0.4	0.85	0.45	0	0	0	0	0	0	0	0
6/26/2024 10:16	20601	GRWO_T2	150	110	-40	0.78	0.53	-0.25	0.94	0.97	0	0	0	0	0	0
6/26/2024 10:16	52404	GRPA_T2	0	0	0	0	0	0	0.31	0.37	0	0	0	0	0	0
6/26/2024 10:16	44801	EDAN_T2	3	2	-1	1.2	1.2	0	0.81	0.83	0	0	0	0	0	0
6/26/2024 10:16	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/26/2024 10:16	63501	HEID_TBK1-2	0	0	0	0	0	0	0.84	0.83	1	1	0	900	900	0
6/26/2024 10:16	52403	GRPA_T2	8	5	-3	0.59	0.7	0.11	0	0	0	0	0	0	0	0
6/26/2024 10:17	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/26/2024 10:17	52002	LING_T2	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
6/26/2024 10:17	52402	GRPA_T2	4	4	0	0.4	0.85	0.45	0	0	0	0	0	0	0	0
6/26/2024 10:17	52403	GRPA_T2	8	5	-3	0.59	0.7	0.11	0.16	0.19	0	0	0	0	0	0
6/26/2024 10:18	40101	HUNT_T2	11	20	9	0.69	0.49	-0.2	-0.22	-0.24	0	0	0	0	0	0
6/26/2024 10:20	44801	EDAN_T2	3	2	-1	1.2	1.2	0	0.81	0.83	0	0	0	0	0	0
6/26/2024 10:22	56501	ROCK_T2	1	2	1	1.1	0.8	-0.3	-0.64	-1.83	0	0	0	0	0	0
6/26/2024 10:22	67605	WARW_T1	1	1	0	0.4	0.5	0.1	-0.66	-0.62	0	0	0	0	0	0
6/26/2024 10:23	67603	WARW_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
6/26/2024 10:23	56501	ROCK_T2	1	2	1	1.1	0.8	-0.3	-1.29	-3.65	0	0	0	0	0	0
6/26/2024 10:23	67605	WARW_T1	1	1	0	0.4	0.5	0.1	-0.66	-0.62	0	0	0	0	0	0
6/26/2024 10:24	56501	ROCK_T2	1	2	1	1.1	0.8	-0.3	-1.29	-3.65	0	0	0	0	0	0
6/26/2024 10:25	56501	ROCK_T2	1	2	1	1.1	0.8	-0.3	-0.64	-1.83	0	0	0	0	0	0
6/26/2024 10:25	61102	BERK_T5	0	0	0	0	0	0	2.74	3.02	4	4	0	1200	1200	0
6/26/2024 10:25	67605	WARW_T1	1	1	0	0.4	0.5	0.1	-0.66	-0.62	0	0	0	0	0	0
6/26/2024 10:25	67605	WARW_T1	1	1	0	0.4	0.5	0.1	-0.66	-0.62	0	0	0	0	0	0
6/26/2024 10:25	67605	WARW_T1	1	1	0	0.4	0.5	0.1	-0.66	-0.62	0	0	0	0	0	0
6/26/2024 10:25	67605	WARW_T1	1	1	0	0.4	0.5	0.1	-0.66	-0.62	0	0	0	0	0	0
6/26/2024 10:26	46206	DANV_T2	24	3	-21	0.39	1.17	0.78	0	0	0	0	0	0	0	0
6/26/2024 10:26	61102	BERK_T5	0	0	0	0	0	0	0.69	0.75	1	1	0	300	300	0
6/26/2024 10:26	46203	DANV_T2	0	1	1	0	0	0	-1.46	-1.41	0	0	0	0	0	0
6/26/2024 10:27	46206	DANV_T2	24	3	-21	0.39	1.17	0.78	0	0	0	0	0	0	0	0
6/26/2024 10:27	20401	ASHF_T2	6	6	0	1.05	2.02	0.97	0.48	0.51	0	0	0	0	0	0
6/26/2024 10:27	20403	ASHF_T2	3	3	0	0.7	2.6	1.9	0	0	0	0	0	0	0	0
6/26/2024 10:27	46203	DANV_T2	0	1	1	0	0	0	-4.38	-4.24	0	0	0	0	0	0
6/26/2024 10:27	61102	BERK_T5	0	0	0	0	0	0	0.69	0.75	1	1	0	300	300	0
6/26/2024 10:28	46203	DANV_T2	0	1	1	0	0	0	-2.92	-2.83	0	0	0	0	0	0
6/26/2024 10:28	61102	BERK_T5	0	0	0	0	0	0	0.69	0.75	1	1	0	300	300	0
6/26/2024 10:28	46206	DANV_T2	24	3	-21	0.39	1.17	0.78	1.74	1.81	2	2	0	2100	2100	0
6/26/2024 10:28	20401	ASHF_T2	6	6	0	1.05	2.02	0.97	0	0	0	0	0	0	0	0
6/26/2024 10:28	20403	ASHF_T2	3	3	0	0.7	2.6	1.9	1	0.91	0	0	0	0	0	0
6/26/2024 10:29	46203	DANV_T2	0	1	1	0	0	0	-1.46	-1.41	0	0	0	0	0	0
6/26/2024 10:29	46206	DANV_T2	24	3	-21	0.39	1.17	0.78	0	0	0	0	0	0	0	0
6/26/2024 10:31	44801	EDAN_T2	2	3	1	1.45	1.2	-0.25	0.83	0.84	0	0	0	0	0	0
6/26/2024 10:31	52004	LING_T2	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
6/26/2024 10:31	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 10:32	23401	HONE_T2	1	1	0	0.1	0	-0.1	0.14	0.17	0	0	0	0	0	0
6/26/2024 10:32	21203	ECAR_T1	0	2	2	0	0.2	0.2	0.02	0.01	0	0	0	0	0	0
6/26/2024 10:35	40601	PIGR_T1	0	2	2	0	0.4	0.4	0.44	0.53	0	0	0	0	0	0
6/26/2024 10:37	41902	REED_T1	0	0	0	0	0	0	0.58	0.56	1	1	0	900	900	0
6/26/2024 10:38	41902	REED_T1	0	0	0	0	0	0	0.58	0.56	1	1	0	900	900	0
6/26/2024 10:38	24902	WHHA_T1	0	1	1	0	0	0	0.81	0.8	0	0	0	0	0	0
6/26/2024 10:38	24901	WHHA_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
6/26/2024 10:39	45602	WOOL_T1	0	0	0	0	0	0	3.22	3.28	0	0	0	0	0	0
6/26/2024 10:42	61102	BERK_T5	0	0	0	0	0	0	0.75	0.83	1	1	0	300	300	0
6/26/2024 10:43	61102	BERK_T5	0	0	0	0	0	0	0.75	0.83	1	1	0	300	300	0
6/26/2024 10:43	24901	WHHA_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
6/26/2024 10:43	24902	WHHA_T1	0	1	1	0	0	0	0.81	0.8	0	0	0	0	0	0
6/26/2024 10:44	54504	ENOL_T2	0	0	0	0	0	0	-2.16	-2.05	1	1	0	600	600	0
6/26/2024 10:46	43202	MVIL_T2	4	3	-1	0.28	0.43	0.15	-0.4	-0.39	0	0	0	0	0	0
6/26/2024 10:47	20601	GRWO_T2	110	142	32	0.65	0.82	0.17	0.99	1.02	0	0	0	0	0	0
6/26/2024 10:47	47802	MOCA_T2	0	1	1	0	0.1	0.1	-0.53	-0.54	0	0	0	0	0	0
6/26/2024 10:47	52004	LING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/26/2024 10:47	43202	MVIL_T2	4	3	-1	0.28	0.43	0.15	-0.4	-0.39	0	0	0	0	0	0
6/26/2024 10:47	52002	LING_T2	0	0	0	0	0	0	0.74	0.79	0	0	0	0	0	0
6/26/2024 10:48	47403	PENS_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
6/26/2024 10:48	52002	LING_T2	0	0	0	0	0	0	0.74	0.79	0	0	0	0	0	0
6/26/2024 10:48	47401	PENS_T1	11	26	15	1.07	0.62	-0.45	0.18	0.24	0	0	0	0	0	0
6/26/2024 10:48	52004	LING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/26/2024 10:49	43202	MVIL_T2	4	3	-1	0.28	0.43	0.15	-0.4	-0.39	0	0	0	0	0	0
6/26/2024 10:50	24102	EHAZ_T1	2	7	5	0.1	0.63	0.53	0	0	0	0	0	0	0	0
6/26/2024 10:50	24103	EHAZ_T1	0	0	0	0	0	0	-0.27	0.06	0	0	0	0	0	0
6/26/2024 10:50	47403	PENS_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
6/26/2024 10:50	24105	EHAZ_T1	4	4	0	6.18	6.48	0.3	0	0	0	0	0	0	0	0
6/26/2024 10:50	24104	EHAZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/26/2024 10:50	24101	EHAZ_T1	13	30	17	0.24	0.78	0.54	0	0	0	0	0	0	0	0
6/26/2024 10:50	47401	PENS_T1	11	26	15	1.07	0.62	-0.45	0.18	0.24	0	0	0	0	0	0
6/26/2024 10:52	17002	RIRO_T2	1	1	0	0.9	1.1	0.2	1.02	1.04	0	0	0	0	0	0
6/26/2024 10:52	60201	ATGL_T2	0	0	0	0	0	0	0.33	0.33	2	2	0	900	900	0
6/26/2024 10:52	55101	WERT_T1	0	1	1	0	0	0	-1.68	-1.77	4	4	0	3300	3300	0
6/26/2024 10:52	47403	PENS_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
6/26/2024 10:52	47401	PENS_T1	11	26	15	1.07	0.62	-0.45	0.47	0.51	0	0	0	0	0	0
6/26/2024 10:53	43304	WATS_T2	1	0	-1	0.2	0	-0.2	-1.16	-1.25	2	2	0	1200	1200	0
6/26/2024 10:53	43302	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 10:53	47403	PENS_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
6/26/2024 10:53	55101	WERT_T1	0	1	1	0	0	0	-1.68	-1.77	4	4	0	3300	3300	0
6/26/2024 10:53	16302	ALPA_T2	0	0	0	0	0	0	0.12	0.18	0	0	0	0	0	0
6/26/2024 10:53	47401	PENS_T1	11	26	15	1.07	0.62	-0.45	0.24	0.25	0	0	0	0	0	0
6/26/2024 10:54	22001	BOHE_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
6/26/2024 10:54	16302	ALPA_T2	0	0	0	0	0	0	0.36	0.54	0	0	0	0	0	0
6/26/2024 10:54	43302	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 10:54	67804	WLAN_T1	3	8	5	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
6/26/2024 10:54	67801	WLAN_T1	17	25	8	1.07	0.87	-0.2	0.25	0.34	0	0	0	0	0	0
6/26/2024 10:54	43304	WATS_T2	1	0	-1	0.2	0	-0.2	-1.16	-1.25	2	2	0	1200	1200	0
6/26/2024 10:54	55101	WERT_T1	0	1	1	0	0	0	-5.05	-5.32	12	12	0	9900	9900	0
6/26/2024 10:54	22003	BOHE_T1	3	4	1	1.03	0.7	-0.33	0	0	0	0	0	0	0	0
6/26/2024 10:55	55101	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 10:55	55105	WERT_T1	0	0	0	0	0	0	0.42	0.43	1	1	0	900	900	0
6/26/2024 10:57	43302	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 10:57	55101	WERT_T1	0	1	1	0	0	0	-1.68	-1.77	4	4	0	3300	3300	0
6/26/2024 10:57	43304	WATS_T2	1	0	-1	0.2	0	-0.2	-0.58	-0.62	1	1	0	600	600	0
6/26/2024 10:58	61701	ELIZ_T1	2	2	0	1.9	1.95	0.05	0	0	0	0	0	0	0	0
6/26/2024 10:58	61703	ELIZ_T1	0	0	0	0	0	0	-8.49	-7.79	8	8	0	8400	8400	0
6/26/2024 10:59	61703	ELIZ_T1	0	0	0	0	0	0	-2.12	-1.95	2	2	0	2100	2100	0
6/26/2024 10:59	61701	ELIZ_T1	2	2	0	1.9	1.95	0.05	0	0	0	0	0	0	0	0
6/26/2024 11:01	64204	KINZ_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/26/2024 11:01	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/26/2024 11:01	64203	KINZ_T1	2	5	3	1.1	1.1	0	0.9	0.78	3	3	0	2100	2100	0
6/26/2024 11:03	16402	MOPO_T1	1	4	3	0.3	0.4	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/26/2024 11:03	16406	MOPO_T1	0	0	0	0	0	0	0.11	0.33	1	1	0	1200	1200	0
6/26/2024 11:04	46206	DANV_T2	7	23	16	0.31	0.46	0.15	1.74	1.76	2	2	0	2100	2100	0
6/26/2024 11:18	43304	WATS_T2	0	0	0	0	0	0	-0.62	-0.6	1	1	0	600	600	0
6/26/2024 11:18	64101	REFR_T1	10	5	-5	1.44	0.83	-0.61	2.35	2.35	0	0	0	0	0	0
6/26/2024 11:18	43302	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/26/2024 11:19	28805	LAKE_T1	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
6/26/2024 11:19	25501	MADI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 11:19	67201	TEHI_T1	30	32	2	0.63	0.59	-0.04	0	0	0	0	0	0	0	0
6/26/2024 11:19	41302	FISH_T2	14	17	3	1.57	1.76	0.19	0	0	0	0	0	0	0	0
6/26/2024 11:19	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 11:19	64101	REFR_T1	10	5	-5	1.44	0.83	-0.61	0.94	0.94	0	0	0	0	0	0
6/26/2024 11:19	41304	FISH_T2	1	1	0	0	0	0	-0.1	-0.16	0	0	0	0	0	0
6/26/2024 11:19	67203	TEHI_T1	25	17	-8	0.71	1.5	0.79	1.85	2.12	4	4	0	3000	3000	0
6/26/2024 11:19	66505	SMAN_T2	19	24	5	0.54	0.95	0.41	0	0	0	0	0	0	0	0
6/26/2024 11:19	25503	MADI_T1	0	0	0	0	0	0	-0.57	-0.55	0	0	0	0	0	0
6/26/2024 11:19	66504	SMAN_T2	1	0	-1	0.3	0	-0.3	-0.37	-0.21	1	1	0	1200	1200	0
6/26/2024 11:20	20403	ASHF_T2	0	3	3	0	0.3	0.3	0.79	0.78	0	0	0	0	0	0
6/26/2024 11:20	64101	REFR_T1	10	5	-5	1.44	0.83	-0.61	0.94	0.94	0	0	0	0	0	0
6/26/2024 11:20	44301	BEAV_T2	3	5	2	0.67	1.07	0.4	0.94	1.14	2	2	0	1500	1500	0
6/26/2024 11:20	20402	ASHF_T2	0	12	12	0	0.53	0.53	0	0	0	0	0	0	0	0
6/26/2024 11:20	20401	ASHF_T2	5	6	1	1.88	1.52	-0.36	0	0	0	0	0	0	0	0
6/26/2024 11:20	12304	LANA_T2	1	25	24	0.3	0.64	0.34	0	0	0	0	0	0	0	0
6/26/2024 11:20	41302	FISH_T2	14	17	3	1.57	1.76	0.19	0	0	0	0	0	0	0	0
6/26/2024 11:20	12305	LANA_T2	2	4	2	0.4	1	0.6	0	0	0	0	0	0	0	0
6/26/2024 11:20	65001	NEFF_T2	0	0	0	0	0	0	0.65	0.61	1	1	0	1200	1200	0
6/26/2024 11:20	12301	LANA_T2	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
6/26/2024 11:20	41304	FISH_T2	1	1	0	0	0	0	-0.1	-0.16	0	0	0	0	0	0
6/26/2024 11:21	44301	BEAV_T2	3	5	2	0.67	1.07	0.4	1.14	1.11	2	2	0	1500	1500	0
6/26/2024 11:21	66504	SMAN_T2	1	0	-1	0.3	0	-0.3	-0.43	-0.49	2	2	0	2400	2400	0
6/26/2024 11:21	66505	SMAN_T2	19	24	5	0.54	0.95	0.41	0	0	0	0	0	0	0	0
6/26/2024 11:24	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 11:24	52404	GRPA_T2	0	0	0	0	0	0	0.49	-0.04	0	0	0	0	0	0
6/26/2024 11:24	52402	GRPA_T2	5	1	-4	1.08	1	-0.08	0	0	0	0	0	0	0	0
6/26/2024 11:24	52403	GRPA_T2	21	28	7	0.6	0.77	0.17	0	0	0	0	0	0	0	0
6/26/2024 11:24	60201	ATGL_T2	0	0	0	0	0	0	0.39	0.4	2	2	0	900	900	0
6/26/2024 11:26	52404	GRPA_T2	0	0	0	0	0	0	0.49	-0.04	0	0	0	0	0	0
6/26/2024 11:26	52402	GRPA_T2	5	1	-4	1.08	1	-0.08	0	0	0	0	0	0	0	0
6/26/2024 11:26	64302	LINC_T2	3	5	2	0.3	0.4	0.1	1.72	1.87	0	0	0	0	0	0
6/26/2024 11:26	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 11:26	43402	BENT_T1	2	0	-2	0.45	0	-0.45	-0.92	-0.94	2	2	0	1800	1800	0
6/26/2024 11:26	52403	GRPA_T2	21	28	7	0.6	0.77	0.17	0.17	0.18	0	0	0	0	0	0
6/26/2024 11:27	43402	BENT_T1	2	0	-2	0.45	0	-0.45	-0.92	-0.94	2	2	0	1800	1800	0
6/26/2024 11:40	58001	WCAR_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
6/26/2024 11:40	58003	WCAR_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/26/2024 11:49	43402	BENT_T1	0	0	0	0	0	0	-0.47	-0.47	1	1	0	900	900	0
6/26/2024 11:50	43402	BENT_T1	0	0	0	0	0	0	-0.47	-0.47	1	1	0	900	900	0
6/26/2024 12:18	42701	AUGU_T1	75	80	5	1.15	1.49	0.34	0	0	0	0	0	0	0	0
6/26/2024 12:22	11104	EGYP_T1	13	6	-7	1.19	0.86	-0.33	0.25	0.26	1	1	0	900	900	0
6/26/2024 12:22	25603	ARRO_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
6/26/2024 12:22	11102	EGYP_T1	6	5	-1	0.88	0.67	-0.21	0	0	0	0	0	0	0	0
6/26/2024 12:22	11101	EGYP_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/26/2024 12:23	11102	EGYP_T1	6	5	-1	0.88	0.67	-0.21	0	0	0	0	0	0	0	0
6/26/2024 12:23	11101	EGYP_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/26/2024 12:23	11104	EGYP_T1	13	6	-7	1.19	0.86	-0.33	0.25	0.26	1	1	0	900	900	0
6/26/2024 12:24	63403	HONY_T2	1	0	-1	0.2	0	-0.2	-0.98	-0.79	1	1	0	600	600	0
6/26/2024 12:24	28702	HAML_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
6/26/2024 12:24	28701	HAML_T2	3	0	0	0.67	0.7	0.03	0	0	0	0	0	0	0	0
6/26/2024 12:25	11101	EGYP_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/26/2024 12:25	11104	EGYP_T1	13	6	-7	1.19	0.86	-0.33	0.25	0.26	1	1	0	900	900	0
6/26/2024 12:25	11102	EGYP_T1	6	5	-1	0.88	0.67	-0.21	0	0	0	0	0	0	0	0
6/26/2024 12:26	64204	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/26/2024 12:26	64201	KINZ_T1	2	103	101	0.85	0.33	-0.52	-0.69	-0.58	5	5	0	3300	3300	0
6/26/2024 12:26	64202	KINZ_T1	0	11	11	0	0.27	0.27	0	0	0	0	0	0	0	0
6/26/2024 12:26	64203	KINZ_T1	2	8	6	2	2.5	0.5	0	0	0	0	0	0	0	0
6/26/2024 12:26	64305	LINC_T1	0	1	1	0	0	0	-0.53	-0.48	0	0	0	0	0	0
6/26/2024 12:28	47101	MARL_T1	38	42	4	0.72	0.87	0.15	-0.5	-0.48	1	1	0	600	600	0
6/26/2024 12:28	40902	JESH_T1	4	8	4	1.43	1.1	-0.33	-0.54	-0.52	3	3	0	1800	1800	0
6/26/2024 12:28	63202	MGTN_T2	0	0	0	0	0	0	-0.76	-0.53	1	1	0	900	900	0
6/26/2024 12:28	53501	EVIL_T2	1	0	-1	0.6	0	-0.6	-0.34	-0.29	3	3	0	1400	1400	0
6/26/2024 12:28	12704	MACU_T1	0	0	0	0	0	0	-0.56	-0.52	1	1	0	600	600	0
6/26/2024 12:28	53502	EVIL_T2	2	3	1	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
6/26/2024 12:28	40101	HUNT_T2	38	232	194	0.42	0.52	0.1	-0.25	-0.21	0	0	0	0	0	0
6/26/2024 12:28	63201	MGTN_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/26/2024 12:28	40901	JESH_T1	2	3	1	1.2	0.97	-0.23	0	0	0	0	0	0	0	0
6/26/2024 12:29	64302	LINC_T2	10	25	15	0.37	0.4	0.03	1.66	1.73	0	0	0	0	0	0
6/26/2024 12:29	40101	HUNT_T2	38	232	194	0.42	0.52	0.1	-0.25	-0.21	0	0	0	0	0	0
6/26/2024 12:29	12701	MACU_T1	0	0	0	0	0	0	-0.73	-0.71	1	1	0	1200	1200	0
6/26/2024 12:29	47101	MARL_T1	38	42	4	0.72	0.87	0.15	-1	-0.95	2	2	0	1200	1200	0
6/26/2024 12:30	47101	MARL_T1	24	64	40	0.85	0.88	0.03	-0.5	-0.48	1	1	0	600	600	0
6/26/2024 12:30	12701	MACU_T1	0	0	0	0	0	0	-0.73	-0.71	1	1	0	1200	1200	0
6/26/2024 12:32	67605	WARW_T1	0	1	1	0	0.9	0.9	-0.69	-0.67	0	0	0	0	0	0
6/26/2024 12:34	29402	BELT_T1	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
6/26/2024 12:34	56801	BENV_T1	0	4	4	0	0.55	0.55	-0.15	-0.13	1	1	0	600	600	0
6/26/2024 12:34	56803	BENV_T1	3	6	3	0.53	1.08	0.55	0	0	0	0	0	0	0	0
6/26/2024 12:34	29401	BELT_T1	1	0	-1	0.3	0	-0.3	0	0	3	3	0	2700	2700	0
6/26/2024 12:39	11805	FRAN_T1	0	4	4	0	0.25	0.25	-2.25	-2.17	1	1	0	1200	1200	0
6/26/2024 12:39	24702	FLND_T2	0	1	1	0	0.3	0.3	0.8	0.83	2	2	0	2400	2400	0
6/26/2024 12:39	11804	FRAN_T1	242	247	5	1.22	1.74	0.52	1.47	1.53	0	0	0	0	0	0
6/26/2024 12:40	24701	FLND_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
6/26/2024 12:40	24702	FLND_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/26/2024 12:40	63403	HONY_T2	0	0	0	0	0	0	-0.79	-0.65	1	1	0	600	600	0
6/26/2024 12:41	46801	HEPB_T2	2	2	0	0.2	0.1	-0.1	0.35	0.37	0	0	0	0	0	0
6/26/2024 12:42	40101	HUNT_T2	155	258	103	0.54	0.6	0.06	-0.21	-0.21	0	0	0	0	0	0
6/26/2024 12:43	40901	JESH_T1	3	3	0	1.17	0.97	-0.2	0	0	0	0	0	0	0	0
6/26/2024 12:43	64701	LITI_T1	0	13	13	0	1.33	1.33	0	0	0	0	0	0	0	0
6/26/2024 12:43	47101	MARL_T1	24	64	40	0.85	0.88	0.03	-0.48	-0.42	1	1	0	600	600	0
6/26/2024 12:43	40902	JESH_T1	2	8	6	1.95	0.97	-0.98	-0.52	-0.52	3	3	0	1800	1800	0
6/26/2024 12:43	64704	LITI_T1	0	0	0	0	0	0	0.67	0.63	1	1	0	600	600	0
6/26/2024 12:44	16403	MOPO_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
6/26/2024 12:44	56501	ROCK_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
6/26/2024 12:44	16405	MOPO_T2	0	4	4	0	0.58	0.58	0	0	0	0	0	0	0	0
6/26/2024 12:44	47101	MARL_T1	24	64	40	0.85	0.88	0.03	-0.48	-0.42	1	1	0	600	600	0
6/26/2024 12:44	65901	SAKR_T2	1	1	0	5.3	5.6	0.3	-0.09	-0.07	2	2	0	1500	1500	0
6/26/2024 12:44	56504	ROCK_T2	0	4	4	0	0.2	0.2	0.39	0.35	0	0	0	0	0	0
6/26/2024 12:45	47101	MARL_T1	41	69	28	0.88	0.91	0.03	-0.48	-0.42	1	1	0	600	600	0
6/26/2024 12:46	66103	REAM_T2	0	0	0	0	0	0	0.52	0.67	1	1	0	1200	1200	0
6/26/2024 12:47	67204	TEHI_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
6/26/2024 12:47	59202	THOM_T1	3	2	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/26/2024 12:48	59202	THOM_T1	3	2	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/26/2024 12:48	67605	WARW_T1	1	1	0	0.9	0.5	-0.4	-0.67	-0.64	0	0	0	0	0	0
6/26/2024 12:48	25603	ARRO_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
6/26/2024 12:48	60201	ATGL_T2	0	1	1	0	0	0	-0.4	-0.4	2	2	0	900	900	0
6/26/2024 12:48	55103	WERT_T1	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/26/2024 12:48	56504	ROCK_T2	4	4	0	0.3	0.15	-0.15	0.39	0.35	0	0	0	0	0	0
6/26/2024 12:48	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/26/2024 12:48	56501	ROCK_T2	2	2	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
6/26/2024 12:48	67603	WARW_T1	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
6/26/2024 12:48	55101	WERT_T1	15	91	76	0.72	0.69	-0.03	-1.45	-1.46	4	4	0	3300	3300	0
6/26/2024 12:48	55105	WERT_T1	0	0	0	0	0	0	0.56	0.6	1	1	0	900	900	0
6/26/2024 12:49	13601	RICH_T2	0	0	0	0	0	0	1.02	0.76	1	1	0	600	600	0
6/26/2024 12:49	55103	WERT_T1	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/26/2024 12:49	60201	ATGL_T2	0	1	1	0	0	0	-0.4	-0.4	2	2	0	900	900	0
6/26/2024 12:49	59202	THOM_T1	3	2	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/26/2024 12:49	67605	WARW_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
6/26/2024 12:49	67204	TEHI_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
6/26/2024 12:49	13606	RICH_T2	4	5	1	2.58	2.33	-0.25	0	0	0	0	0	0	0	0
6/26/2024 12:49	55101	WERT_T1	15	91	76	0.72	0.69	-0.03	-2.91	-2.92	8	8	0	6600	6600	0
6/26/2024 12:49	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 12:50	56501	ROCK_T2	2	2	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
6/26/2024 12:50	67801	WLAN_T1	23	34	11	0.5	0.58	0.08	-0.58	-0.58	0	0	0	0	0	0
6/26/2024 12:50	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/26/2024 12:50	25603	ARRO_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
6/26/2024 12:50	67804	WLAN_T1	10	10	0	0.87	0.97	0.1	0	0	0	0	0	0	0	0
6/26/2024 12:50	67203	TEHI_T1	30	35	5	0.62	0.67	0.05	0	0	0	0	0	0	0	0
6/26/2024 12:50	56504	ROCK_T2	4	4	0	0.3	0.15	-0.15	0.39	0.35	0	0	0	0	0	0
6/26/2024 12:50	67201	TEHI_T1	26	87	61	0.74	0.63	-0.11	-0.1	-0.05	2	2	0	1500	1500	0
6/26/2024 12:52	56803	BENV_T1	4	6	2	1.08	1.2	0.12	0	0	0	0	0	0	0	0
6/26/2024 12:52	55102	WERT_T2	79	139	60	1.23	1.23	0	-0.42	-0.25	2	2	0	1200	1200	0
6/26/2024 12:52	56801	BENV_T1	4	5	1	0.45	0.95	0.5	-0.11	-0.09	1	1	0	600	600	0
6/26/2024 12:53	47001	HUGH_T2	4	3	-1	4.6	6.97	2.37	-0.86	-0.88	1	1	0	900	900	0
6/26/2024 12:53	60901	DONG_T2	13	19	6	0.92	0.65	-0.27	0	0	0	0	0	0	0	0
6/26/2024 12:53	60902	DONG_T2	0	1	1	0	0	0	0.73	0.75	0	0	0	0	0	0
6/26/2024 12:53	60904	DONG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 12:54	46206	DANV_T2	55	45	-10	0.68	0.48	-0.2	1.76	1.46	2	2	0	2100	2100	0
6/26/2024 12:54	40101	HUNT_T2	229	316	87	0.62	0.59	-0.03	-0.21	-0.2	0	0	0	0	0	0
6/26/2024 12:54	47001	HUGH_T2	4	3	-1	4.6	6.97	2.37	-0.86	-0.88	1	1	0	900	900	0
6/26/2024 12:54	46204	DANV_T2	11	4	-7	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/26/2024 12:54	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 12:54	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/26/2024 12:54	56504	ROCK_T2	4	4	0	0.3	0.15	-0.15	0.35	0.38	0	0	0	0	0	0
6/26/2024 12:54	56501	ROCK_T2	2	2	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
6/26/2024 12:55	46204	DANV_T2	11	4	-7	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/26/2024 12:55	28805	LAKE_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
6/26/2024 12:55	45802	HEGI_T2	3	23	20	0.57	0.33	-0.24	0.76	0.72	2	2	0	1200	1200	0
6/26/2024 12:55	46206	DANV_T2	55	45	-10	0.68	0.48	-0.2	1.76	1.46	2	2	0	2100	2100	0
6/26/2024 12:55	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 12:57	64202	KINZ_T1	11	45	34	0.27	0.38	0.11	0	0	0	0	0	0	0	0
6/26/2024 12:57	64201	KINZ_T1	102	402	300	0.34	0.73	0.39	0	0	0	0	0	0	0	0
6/26/2024 12:57	64204	KINZ_T1	0	10	10	0	0.43	0.43	0	0	0	0	0	0	0	0
6/26/2024 12:57	64203	KINZ_T1	8	82	74	1.34	0.57	-0.77	0.79	0.85	3	3	0	2100	2100	0
6/26/2024 12:58	12701	MACU_T1	0	0	0	0	0	0	-0.69	-0.67	1	1	0	1200	1200	0
6/26/2024 12:59	53803	MBRG_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
6/26/2024 12:59	45802	HEGI_T2	3	23	20	0.57	0.33	-0.24	0.76	0.72	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/26/2024 12:59	64101	REFR_T1	10	10	0	0.96	0.91	-0.05	0.64	0.13	0	0	0	0	0	0
6/26/2024 13:00	40603	PIGR_T1	1	5	4	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/26/2024 13:00	25402	LAHA_T2	2	1	-1	0.35	0.2	-0.15	-0.03	0.15	0	0	0	0	0	0
6/26/2024 13:00	47101	MARL_T1	63	82	19	0.86	0.95	0.09	-0.42	-0.38	1	1	0	600	600	0
6/26/2024 13:00	12701	MACU_T1	0	0	0	0	0	0	-0.69	-0.67	1	1	0	1200	1200	0
6/26/2024 13:00	67203	TEHI_T1	35	21	-14	0.68	0.69	0.01	0	0	0	0	0	0	0	0
6/26/2024 13:00	40601	PIGR_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
6/26/2024 13:00	40602	PIGR_T1	0	2	2	0	0	0	-0.26	-0.19	0	0	0	0	0	0
6/26/2024 13:00	67201	TEHI_T1	78	73	-5	0.68	0.64	-0.04	-0.05	0.46	2	2	0	1500	1500	0
6/26/2024 13:01	47101	MARL_T1	63	82	19	0.86	0.95	0.09	-0.42	-0.38	1	1	0	600	600	0
6/26/2024 13:02	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 13:02	43301	WATS_T2	0	0	0	0	0	0	-0.03	-0.02	1	1	0	900	900	0
6/26/2024 13:02	64101	REFR_T1	10	10	0	2.57	0.91	-1.66	0.64	0.13	0	0	0	0	0	0
6/26/2024 13:03	16405	MOPO_T2	4	4	0	1.03	0	-1.03	0	0	0	0	0	0	0	0
6/26/2024 13:03	16403	MOPO_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
6/26/2024 13:03	67701	WERN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/26/2024 13:03	64101	REFR_T1	10	10	0	2.57	0.91	-1.66	0.64	0.13	0	0	0	0	0	0
6/26/2024 13:03	60801	BUCK_T1	0	0	0	0	0	0	-0.41	-1.83	2	2	0	1200	1200	0
6/26/2024 13:03	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/26/2024 13:04	67401	WAKE_T2	0	0	0	0	0	0	-1	-0.99	0	0	0	0	0	0
6/26/2024 13:04	67402	WAKE_T2	18	68	50	0.43	0.49	0.06	0	0	0	0	0	0	0	0
6/26/2024 13:04	58003	WCAR_T1	1	1	0	0.3	0.5	0.2	0.72	0.75	1	1	0	600	600	0
6/26/2024 13:04	60201	ATGL_T2	0	2	2	0	0.3	0.3	-0.4	-0.21	2	2	0	900	900	0
6/26/2024 13:04	58001	WCAR_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/26/2024 13:06	60101	COCA_T1	2	1	-1	0.45	1.1	0.65	-0.07	-0.02	1	1	0	1200	1200	0
6/26/2024 13:08	60801	BUCK_T1	0	0	0	0	0	0	-0.92	-0.9	1	1	0	600	600	0
6/26/2024 13:09	60102	COCA_T1	0	0	0	0	0	0	-0.87	-0.69	3	3	0	2100	2100	0
6/26/2024 13:09	61701	ELIZ_T1	2	2	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
6/26/2024 13:09	60101	COCA_T1	2	1	-1	0.45	1.1	0.65	-0.07	-0.02	1	1	0	1200	1200	0
6/26/2024 13:09	20601	GRWO_T2	19	61	42	0.52	0.41	-0.11	0.04	0.06	1	1	0	1200	1200	0
6/26/2024 13:09	45802	HEGI_T2	13	23	10	0.33	0.65	0.32	0.72	0.65	2	2	0	1200	1200	0
6/26/2024 13:09	61703	ELIZ_T1	0	0	0	0	0	0	-2.18	-2.28	2	2	0	2100	2100	0
6/26/2024 13:09	14203	EALL_T1	0	0	0	0	0	0	0.84	0.96	1	1	0	1200	1200	0
6/26/2024 13:09	14201	EALL_T1	0	7	7	0	1.38	1.38	0	0	0	0	0	0	0	0
6/26/2024 13:10	63802	HEMP_T1	3	1	-2	1.33	0	-1.33	0	0	0	0	0	0	0	0
6/26/2024 13:10	64203	KINZ_T1	45	310	265	0.58	0.59	0.01	0	0	0	0	0	0	0	0
6/26/2024 13:10	63804	HEMP_T1	1	1	0	9	9	0	0.39	0.36	0	0	0	0	0	0
6/26/2024 13:10	64201	KINZ_T1	382	497	115	0.74	0.88	0.14	-0.34	-0.18	5	5	0	3300	3300	0
6/26/2024 13:10	64202	KINZ_T1	28	70	42	0.38	0.68	0.3	0	0	0	0	0	0	0	0
6/26/2024 13:10	64204	KINZ_T1	4	123	119	0.38	0.71	0.33	0	0	0	0	0	0	0	0
6/26/2024 13:10	63803	HEMP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 13:12	64202	KINZ_T1	28	70	42	0.38	0.68	0.3	0	0	0	0	0	0	0	0
6/26/2024 13:12	64204	KINZ_T1	4	123	119	0.38	0.71	0.33	0	0	0	0	0	0	0	0
6/26/2024 13:12	64203	KINZ_T1	45	310	265	0.58	0.59	0.01	0.85	0.82	3	3	0	2100	2100	0
6/26/2024 13:12	43402	BENT_T1	0	1	1	0	0.2	0.2	-0.47	-0.47	1	1	0	900	900	0
6/26/2024 13:12	64201	KINZ_T1	382	497	115	0.74	0.88	0.14	0	0	0	0	0	0	0	0
6/26/2024 13:13	64201	KINZ_T1	382	497	115	0.74	0.88	0.14	-0.34	-0.18	5	5	0	3300	3300	0
6/26/2024 13:13	12701	MACU_T1	0	0	0	0	0	0	-0.67	-0.65	1	1	0	1200	1200	0
6/26/2024 13:13	64204	KINZ_T1	4	123	119	0.38	0.71	0.33	0	0	0	0	0	0	0	0
6/26/2024 13:13	64203	KINZ_T1	45	310	265	0.58	0.59	0.01	0.85	0.82	3	3	0	2100	2100	0
6/26/2024 13:13	43402	BENT_T1	0	1	1	0	0.2	0.2	-0.47	-0.47	1	1	0	900	900	0
6/26/2024 13:13	64202	KINZ_T1	28	70	42	0.38	0.68	0.3	0	0	0	0	0	0	0	0
6/26/2024 13:14	48303	ORWI_T2	0	4	4	0	0	0	0.9	0.91	0	0	0	0	0	0
6/26/2024 13:14	48302	ORWI_T2	4	9	5	0.3	0.47	0.17	0	0	0	0	0	0	0	0
6/26/2024 13:14	53803	MBRG_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
6/26/2024 13:15	24201	PROV_T3	1	1	0	9.5	9.2	-0.3	-0.64	-0.63	1	1	0	1200	1200	0
6/26/2024 13:15	58202	NEWK_T1	0	1	1	0	0	0	0.12	0.22	0	0	0	0	0	0
6/26/2024 13:15	51004	NHAR_T1	1	1	0	7.1	7	-0.1	0	0	0	0	0	0	0	0
6/26/2024 13:15	24204	PROV_T3	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
6/26/2024 13:15	58402	MORO_T1	2	3	1	0.9	0	-0.9	0	0	0	0	0	0	0	0
6/26/2024 13:15	58401	MORO_T1	0	2	2	0	0	0	-5.08	-4.95	9	9	0	6300	6300	0
6/26/2024 13:15	51003	NHAR_T1	0	0	0	0	0	0	-2.03	-1.89	1	1	0	1200	1200	0
6/26/2024 13:17	64101	REFR_T1	10	10	0	0.91	1.28	0.37	0.13	0.14	0	0	0	0	0	0
6/26/2024 13:33	60801	BUCK_T1	0	0	0	0	0	0	-0.9	-0.88	1	1	0	600	600	0
6/26/2024 13:33	43402	BENT_T1	1	2	1	0.2	0.35	0.15	-0.47	-0.47	1	1	0	900	900	0
6/26/2024 13:34	43402	BENT_T1	1	2	1	0.2	0.35	0.15	-0.47	-0.47	1	1	0	900	900	0
6/26/2024 13:47	56501	ROCK_T2	1	5	4	0.3	0.3	0	-1.47	-1.55	0	0	0	0	0	0
6/26/2024 13:47	56504	ROCK_T2	4	7	3	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/26/2024 13:53	64202	KINZ_T1	87	101	14	1.54	1.55	0.01	0	0	0	0	0	0	0	0
6/26/2024 13:53	64203	KINZ_T1	690	993	303	0.71	0.76	0.05	0.89	0.94	3	3	0	2100	2100	0
6/26/2024 13:53	64201	KINZ_T1	630	761	131	1.81	1.66	-0.15	-0.34	-0.27	5	5	0	3300	3300	0
6/26/2024 13:53	64204	KINZ_T1	285	558	273	0.5	0.56	0.06	0	0	0	0	0	0	0	0
6/26/2024 13:54	64204	KINZ_T1	285	558	273	0.5	0.56	0.06	0	0	0	0	0	0	0	0
6/26/2024 13:54	64202	KINZ_T1	87	101	14	1.54	1.55	0.01	0	0	0	0	0	0	0	0
6/26/2024 13:54	64201	KINZ_T1	630	761	131	1.81	1.66	-0.15	0	0	0	0	0	0	0	0
6/26/2024 13:54	64203	KINZ_T1	690	993	303	0.71	0.76	0.05	0.89	0.94	3	3	0	2100	2100	0
6/26/2024 13:55	64204	KINZ_T1	285	558	273	0.5	0.56	0.06	0	0	0	0	0	0	0	0
6/26/2024 13:55	64203	KINZ_T1	690	993	303	0.71	0.76	0.05	0.89	0.94	3	3	0	2100	2100	0
6/26/2024 13:55	64202	KINZ_T1	87	101	14	1.54	1.55	0.01	0	0	0	0	0	0	0	0
6/26/2024 13:55	64201	KINZ_T1	630	761	131	1.81	1.66	-0.15	0	0	0	0	0	0	0	0
6/26/2024 14:10	64203	KINZ_T1	974	993	19	0.81	0.76	-0.05	0.94	0.99	3	3	0	2100	2100	0
6/26/2024 14:10	64201	KINZ_T1	748	751	3	1.6	1.88	0.28	0	0	0	0	0	0	0	0
6/26/2024 14:10	64202	KINZ_T1	100	102	2	1.63	1.56	-0.07	0	0	0	0	0	0	0	0
6/26/2024 14:10	64204	KINZ_T1	544	574	30	0.61	0.57	-0.04	0	0	0	0	0	0	0	0
6/26/2024 14:14	43402	BENT_T1	0	2	2	0	0.55	0.55	-0.47	-0.47	1	1	0	900	900	0
6/26/2024 14:15	43402	BENT_T1	2	2	0	0.5	0.55	0.05	-0.47	-0.47	1	1	0	900	900	0
6/26/2024 14:24	40601	PIGR_T1	4	3	-1	0.33	0.1	-0.23	0	0	0	0	0	0	0	0
6/26/2024 14:24	40602	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 14:24	40603	PIGR_T1	30	30	0	0.42	0.33	-0.09	0.89	0.89	0	0	0	0	0	0
6/26/2024 14:35	43402	BENT_T1	2	2	0	0.55	0.35	-0.2	-0.47	-0.47	1	1	0	900	900	0
6/26/2024 14:36	43402	BENT_T1	2	2	0	0.55	0.35	-0.2	-0.47	-0.47	1	1	0	900	900	0
6/26/2024 14:44	43802	SWIL_T1	0	1	1	0	0	0	-0.75	-0.75	1	1	0	600	600	0
6/26/2024 14:44	43801	SWIL_T1	1	2	1	4.9	2.5	-2.4	0	0	0	0	0	0	0	0
6/26/2024 14:54	46902	MNTG_T2	6	18	12	0.18	0.23	0.05	0	0	0	0	0	0	0	0
6/26/2024 14:54	46903	MNTG_T2	4	17	13	0.88	0.41	-0.47	0	0	0	0	0	0	0	0
6/26/2024 14:54	46901	MNTG_T2	2	7	5	0.15	0.24	0.09	0.67	0.37	1	1	0	1200	1200	0
6/26/2024 15:11	64203	KINZ_T1	888	520	-368	0.83	0.73	-0.1	0.83	0.8	3	3	0	2100	2100	0
6/26/2024 15:11	64204	KINZ_T1	521	421	-100	0.69	0.52	-0.17	0	0	0	0	0	0	0	0
6/26/2024 15:11	64201	KINZ_T1	551	521	-30	1.53	0.8	-0.73	0	0	0	0	0	0	0	0
6/26/2024 15:11	64202	KINZ_T1	95	82	-13	1.6	1.57	-0.03	0	0	0	0	0	0	0	0
6/26/2024 15:12	64201	KINZ_T1	551	521	-30	1.53	0.8	-0.73	0	0	0	0	0	0	0	0
6/26/2024 15:12	64203	KINZ_T1	888	520	-368	0.83	0.73	-0.1	0.83	0.8	3	3	0	2100	2100	0
6/26/2024 15:12	64202	KINZ_T1	95	82	-13	1.6	1.57	-0.03	0	0	0	0	0	0	0	0
6/26/2024 15:12	64204	KINZ_T1	521	421	-100	0.69	0.52	-0.17	0	0	0	0	0	0	0	0
6/26/2024 15:16	43402	BENT_T1	1	1	0	0.1	0.1	0	-0.47	-0.47	1	1	0	900	900	0
6/26/2024 15:17	43402	BENT_T1	1	1	0	0.1	0.1	0	-0.47	-0.47	1	1	0	900	900	0
6/26/2024 15:25	64203	KINZ_T1	520	223	-297	0.75	0.68	-0.07	0.8	0.84	3	3	0	2100	2100	0
6/26/2024 15:25	64204	KINZ_T1	419	242	-177	0.69	0.46	-0.23	0	0	0	0	0	0	0	0
6/26/2024 15:25	64202	KINZ_T1	82	62	-20	1.81	1.61	-0.2	0	0	0	0	0	0	0	0
6/26/2024 15:25	64201	KINZ_T1	521	391	-130	1.36	0.64	-0.72	0	0	0	0	0	0	0	0
6/26/2024 15:37	43402	BENT_T1	1	0	-1	0.1	0	-0.1	-0.47	-0.47	1	1	0	900	900	0
6/26/2024 15:38	43402	BENT_T1	1	0	-1	0.1	0	-0.1	-0.47	-0.47	1	1	0	900	900	0
6/26/2024 15:55	64204	KINZ_T1	71	20	-51	0.47	0.31	-0.16	0	0	0	0	0	0	0	0
6/26/2024 15:55	64201	KINZ_T1	336	48	-288	0.66	0.23	-0.43	0	0	0	0	0	0	0	0
6/26/2024 15:55	64202	KINZ_T1	55	49	-6	1.66	0.49	-1.17	0	0	0	0	0	0	0	0
6/26/2024 15:55	64203	KINZ_T1	123	46	-77	0.67	0.94	0.27	0.81	0.65	3	3	0	2100	2100	0
6/26/2024 15:58	43402	BENT_T1	0	0	0	0	0	0	-0.47	-0.47	1	1	0	900	900	0
6/26/2024 15:59	43402	BENT_T1	0	0	0	0	0	0	-0.47	-0.47	1	1	0	900	900	0
6/26/2024 16:11	64204	KINZ_T1	18	20	2	0.42	0.31	-0.11	0	0	0	0	0	0	0	0
6/26/2024 16:11	64201	KINZ_T1	48	10	-38	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
6/26/2024 16:11	64202	KINZ_T1	49	41	-8	0.78	0.4	-0.38	0	0	0	0	0	0	0	0
6/26/2024 16:11	64203	KINZ_T1	46	20	-26	0.89	0.8	-0.09	0.65	0.51	3	3	0	2100	2100	0
6/26/2024 16:19	43402	BENT_T1	0	0	0	0	0	0	-0.47	-0.47	1	1	0	900	900	0
6/26/2024 16:20	43402	BENT_T1	0	0	0	0	0	0	-0.47	-0.47	1	1	0	900	900	0
6/26/2024 16:40	43402	BENT_T1	0	0	0	0	0	0	-0.47	-0.68	1	1	0	900	900	0
6/26/2024 16:41	43402	BENT_T1	0	0	0	0	0	0	-0.47	-0.68	1	1	0	900	900	0
6/26/2024 17:01	61505	EPET_T1	0	0	0	0	0	0	0.99	0.98	0	0	0	0	0	0
6/26/2024 17:01	61502	EPET_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 17:13	57304	MOAL_T2	11	13	2	0.71	0.77	0.06	-0.21	-0.28	0	0	0	0	0	0
6/26/2024 17:13	57303	MOAL_T2	1	1	0	7.9	7.4	-0.5	0	0	0	0	0	0	0	0
6/26/2024 17:13	57301	MOAL_T2	0	100	100	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 17:14	56802	BENV_T2	0	711	711	0	3.28	3.28	-0.56	-0.08	0	0	0	0	0	0
6/26/2024 17:16	57304	MOAL_T2	13	12	-1	0.72	0	-0.72	-0.21	-0.28	0	0	0	0	0	0
6/26/2024 17:16	57303	MOAL_T2	1	1	0	7.7	7.4	-0.3	0	0	0	0	0	0	0	0
6/26/2024 17:18	56501	ROCK_T2	550	136	-414	1.7	0.3	-1.4	0	0	0	0	0	0	0	0
6/26/2024 17:18	56503	ROCK_T2	0	410	410	0	0.1	0.1	0	0	0	0	0	0	0	0
6/26/2024 17:18	56504	ROCK_T2	96	202	106	0.69	6.5	5.81	0.66	0.29	0	0	0	0	0	0
6/26/2024 17:26	58003	WCAR_T1	1	3	2	1.2	0.53	-0.67	0.66	0.63	1	1	0	600	600	0
6/26/2024 17:26	58001	WCAR_T1	1	4	3	0.1	0.43	0.33	0	0	0	0	0	0	0	0
6/26/2024 17:29	58003	WCAR_T1	1	3	2	1.2	0.53	-0.67	0.66	0.63	1	1	0	600	600	0
6/26/2024 17:29	58001	WCAR_T1	1	4	3	0.1	0.43	0.33	0	0	0	0	0	0	0	0
6/26/2024 17:32	56501	ROCK_T2	11	133	122	1.39	0.29	-1.1	-1.65	-1.63	0	0	0	0	0	0
6/26/2024 17:32	56504	ROCK_T2	202	1	-201	5.59	0	-5.59	0	0	0	0	0	0	0	0
6/26/2024 17:36	47402	PENS_T1	5	3	-2	1.1	0	-1.1	0	0	0	0	0	0	0	0
6/26/2024 17:36	47401	PENS_T1	8	378	370	1.15	0.97	-0.18	1.16	1	0	0	0	0	0	0
6/26/2024 17:36	47403	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/26/2024 17:37	40601	PIGR_T1	13	106	93	0.52	0.38	-0.14	0	0	0	0	0	0	0	0
6/26/2024 17:37	40602	PIGR_T1	29	58	29	0.56	0.32	-0.24	-0.01	-0.71	0	0	0	0	0	0
6/26/2024 17:37	40603	PIGR_T1	56	50	-6	1.29	1.1	-0.19	0	0	0	0	0	0	0	0
6/26/2024 17:38	40602	PIGR_T1	29	58	29	0.56	0.32	-0.24	-0.01	-0.71	0	0	0	0	0	0
6/26/2024 17:38	40601	PIGR_T1	13	106	93	0.52	0.38	-0.14	0	0	0	0	0	0	0	0
6/26/2024 17:38	40603	PIGR_T1	56	50	-6	1.29	1.1	-0.19	0	0	0	0	0	0	0	0
6/26/2024 17:39	40602	PIGR_T1	29	58	29	0.56	0.32	-0.24	-0.01	-0.71	0	0	0	0	0	0
6/26/2024 17:39	40601	PIGR_T1	13	106	93	0.52	0.38	-0.14	0	0	0	0	0	0	0	0
6/26/2024 17:39	40603	PIGR_T1	56	50	-6	1.29	1.1	-0.19	0	0	0	0	0	0	0	0
6/26/2024 17:42	40601	PIGR_T1	13	106	93	0.52	0.38	-0.14	0	0	0	0	0	0	0	0
6/26/2024 17:42	40602	PIGR_T1	29	58	29	0.56	0.32	-0.24	-0.02	-1.42	0	0	0	0	0	0
6/26/2024 17:42	40603	PIGR_T1	56	50	-6	1.29	1.1	-0.19	0	0	0	0	0	0	0	0
6/26/2024 17:48	46002	BERW_T2	0	864	864	0	1.85	1.85	0	0	0	0	0	0	0	0
6/26/2024 17:48	46003	BERW_T2	0	42	42	0	9.47	9.47	0	0	0	0	0	0	0	0
6/26/2024 17:48	46004	BERW_T2	0	878	878	0	0.97	0.97	1.17	0.11	0	0	0	0	0	0
6/26/2024 17:51	45802	HEGI_T2	19	36	17	0.74	0.51	-0.23	0.04	0.45	2	1	-1	1200	300	-900
6/26/2024 17:52	46301	ROHR_T1	169	178	9	0.45	0.36	-0.09	0.49	0.48	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/26/2024 17:52	46302	ROHR_T1	11	7	-4	0.77	1.53	0.76	0	0	0	0	0	0	0	0
6/26/2024 17:53	46206	DANV_T2	10	11	1	1.01	0.8	-0.21	0	0	0	0	0	0	0	0
6/26/2024 17:53	46203	DANV_T2	9	625	616	0.6	0.3	-0.3	-1.06	0.57	0	0	0	0	0	0
6/26/2024 17:53	46204	DANV_T2	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/26/2024 17:54	56501	ROCK_T2	126	97	-29	0.29	0.3	0.01	0	0	0	0	0	0	0	0
6/26/2024 17:54	56504	ROCK_T2	1	0	-1	6.5	0	-6.5	0.46	0.44	0	0	0	0	0	0
6/26/2024 17:54	56503	ROCK_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/26/2024 17:54	28805	LAKE_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
6/26/2024 17:55	46206	DANV_T2	10	11	1	1.01	0.8	-0.21	0	0	0	0	0	0	0	0
6/26/2024 17:55	46204	DANV_T2	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/26/2024 17:55	46203	DANV_T2	9	625	616	0.6	0.3	-0.3	-1.06	0.57	0	0	0	0	0	0
6/26/2024 17:56	46203	DANV_T2	9	625	616	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
6/26/2024 17:56	46204	DANV_T2	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/26/2024 17:56	46206	DANV_T2	10	11	1	1.01	0.8	-0.21	2.13	1.22	2	2	0	2100	2100	0
6/26/2024 17:57	58401	MORO_T1	1	3	2	1.5	0.57	-0.93	-0.66	-0.67	1	1	0	600	600	0
6/26/2024 17:57	58402	MORO_T1	3	4	1	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
6/26/2024 17:58	40602	PIGR_T1	8	76	68	0.5	0.38	-0.12	-0.71	1.09	0	0	0	0	0	0
6/26/2024 17:58	40601	PIGR_T1	6	32	26	0.35	9.32	8.97	0	0	0	0	0	0	0	0
6/26/2024 17:58	40603	PIGR_T1	46	50	4	1.21	0	-1.21	0	0	0	0	0	0	0	0
6/26/2024 18:00	56501	ROCK_T2	97	8	-89	0.3	1.26	0.96	0	0	0	0	0	0	0	0
6/26/2024 18:00	56504	ROCK_T2	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
6/26/2024 18:01	40601	PIGR_T1	13	1	-12	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/26/2024 18:01	58402	MORO_T1	3	1	-2	1.43	0	-1.43	0	0	0	0	0	0	0	0
6/26/2024 18:01	58401	MORO_T1	1	3	2	1.4	0.63	-0.77	-0.66	-0.67	1	1	0	600	600	0
6/26/2024 18:01	40602	PIGR_T1	18	35	17	0.47	0	-0.47	-0.71	1.09	0	0	0	0	0	0
6/26/2024 18:01	40603	PIGR_T1	50	0	-50	1.09	0	-1.09	0	0	0	0	0	0	0	0
6/26/2024 18:02	52403	GRPA_T2	23	6	-17	0.71	0.7	-0.01	-0.05	-0.04	0	0	0	0	0	0
6/26/2024 18:04	50502	MECH_T1	1	0	-1	1.5	1.7	0.2	0	0	0	0	0	0	0	0
6/26/2024 18:04	50501	MECH_T1	0	1	1	0	0.3	0.3	-1.21	-1.19	0	0	0	0	0	0
6/26/2024 18:07	47101	MARL_T1	418	163	-255	1.2	0.38	-0.82	-1.32	-1.33	2	2	0	1200	1200	0
6/26/2024 18:07	47104	MARL_T1	20	1	-19	0.36	0	-0.36	0	0	0	0	0	0	0	0
6/26/2024 18:08	28805	LAKE_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
6/26/2024 18:08	47104	MARL_T1	20	1	-19	0.36	0	-0.36	0	0	0	0	0	0	0	0
6/26/2024 18:08	47101	MARL_T1	418	163	-255	1.2	0.38	-0.82	-1.32	-1.33	2	2	0	1200	1200	0
6/26/2024 18:09	47104	MARL_T1	20	1	-19	0.36	0	-0.36	0	0	0	0	0	0	0	0
6/26/2024 18:09	47101	MARL_T1	418	163	-255	1.2	0.38	-0.82	-1.98	-2	3	3	0	1800	1800	0
6/26/2024 18:10	47104	MARL_T1	20	1	-19	0.36	0	-0.36	0	0	0	0	0	0	0	0
6/26/2024 18:10	47101	MARL_T1	418	163	-255	1.2	0.38	-0.82	-0.66	-0.67	1	1	0	600	600	0
6/26/2024 18:10	28805	LAKE_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
6/26/2024 18:11	58003	WCAR_T1	2	18	16	0.7	0.23	-0.47	0.59	0.58	1	1	0	600	600	0
6/26/2024 18:11	58001	WCAR_T1	1	4	3	0.2	0.68	0.48	0	0	0	0	0	0	0	0
6/26/2024 18:17	41304	FISH_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 18:17	41302	FISH_T2	19	18	-1	3.04	1.63	-1.41	0	0	0	0	0	0	0	0
6/26/2024 18:19	41302	FISH_T2	19	18	-1	3.04	1.63	-1.41	0	0	0	0	0	0	0	0
6/26/2024 18:19	41304	FISH_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 18:20	52002	LING_T2	0	0	0	0	0	0	0.26	0.2	1	1	0	900	900	0
6/26/2024 18:24	20601	GRWO_T2	2	451	449	0.5	1.15	0.65	1.02	1.48	0	0	0	0	0	0
6/26/2024 18:24	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 18:25	42902	MIDD_T2	6	35	29	0.83	0.86	0.03	-0.21	-0.21	0	0	0	0	0	0
6/26/2024 18:25	42901	MIDD_T2	1	2	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
6/26/2024 18:26	20401	ASHF_T2	40	62	22	0.58	0.94	0.36	0	0	0	0	0	0	0	0
6/26/2024 18:26	20403	ASHF_T2	6	499	493	0.38	1.18	0.8	-0.49	1.03	0	0	0	0	0	0
6/26/2024 18:26	20402	ASHF_T2	169	165	-4	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
6/26/2024 18:27	49803	UNIV_T1	0	0	0	0	0	0	-0.5	-0.39	0	0	0	0	0	0
6/26/2024 18:27	49804	UNIV_T1	0	51	51	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 18:27	46203	DANV_T2	5	0	-5	1.4	0	-1.4	0.51	-0.24	0	0	0	0	0	0
6/26/2024 18:27	46206	DANV_T2	1	2	1	0.8	1	0.2	0	0	0	0	0	0	0	0
6/26/2024 18:28	46206	DANV_T2	1	2	1	0.8	1	0.2	0	0	0	0	0	0	0	0
6/26/2024 18:28	46203	DANV_T2	5	0	-5	1.4	0	-1.4	0.51	-0.24	0	0	0	0	0	0
6/26/2024 18:32	49803	UNIV_T1	0	0	0	0	0	0	-0.5	-0.39	0	0	0	0	0	0
6/26/2024 18:32	56501	ROCK_T2	0	197	197	0	0.1	0.1	-1.74	-1.65	0	0	0	0	0	0
6/26/2024 18:32	49804	UNIV_T1	33	1	-32	1.72	0	-1.72	0	0	0	0	0	0	0	0
6/26/2024 18:34	20402	ASHF_T2	149	141	-8	0.52	0	-0.52	0	0	0	0	0	0	0	0
6/26/2024 18:34	20403	ASHF_T2	464	79	-385	1.43	0.7	-0.73	-0.49	1.03	0	0	0	0	0	0
6/26/2024 18:34	20401	ASHF_T2	17	44	27	0.75	0.58	-0.17	0	0	0	0	0	0	0	0
6/26/2024 18:35	57203	ROSS_T1	8	0	-8	1.86	0	-1.86	0.41	0.37	0	0	0	0	0	0
6/26/2024 18:35	46203	DANV_T2	0	0	0	0	0	0	0.51	-0.24	0	0	0	0	0	0
6/26/2024 18:35	46206	DANV_T2	1	3	2	1	1.1	0.1	0	0	0	0	0	0	0	0
6/26/2024 18:36	20401	ASHF_T2	17	44	27	0.75	0.58	-0.17	0	0	0	0	0	0	0	0
6/26/2024 18:36	20402	ASHF_T2	149	141	-8	0.52	0	-0.52	0	0	0	0	0	0	0	0
6/26/2024 18:36	20403	ASHF_T2	464	79	-385	1.43	0.7	-0.73	-0.49	1.03	0	0	0	0	0	0
6/26/2024 18:36	43202	MVIL_T2	9	31	22	0.18	0.23	0.05	-0.52	-0.53	0	0	0	0	0	0
6/26/2024 18:37	57203	ROSS_T1	8	0	-8	1.86	0	-1.86	0.37	0.34	0	0	0	0	0	0
6/26/2024 18:41	46206	DANV_T2	1	3	2	1	1.1	0.1	0	0	0	0	0	0	0	0
6/26/2024 18:41	46203	DANV_T2	0	0	0	0	0	0	-0.24	-1.61	0	0	0	0	0	0
6/26/2024 18:41	53901	HALI_T2	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
6/26/2024 18:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 18:44	40502	CRES_T2	2	9	7	0.5	0.4	-0.1	-0.3	-0.26	0	0	0	0	0	0
6/26/2024 18:45	53302	GRAT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 18:46	44202	POIN_T2	0	0	0	0	0	0	-0.29	-0.12	1	1	0	1200	1200	0
6/26/2024 18:46	44203	POIN_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
6/26/2024 18:47	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/26/2024 18:47	29402	BELT_T1	18	60	42	0.78	8.4	7.62	0	0	0	0	0	0	0	0
6/26/2024 18:56	46203	DANV_T2	0	0	0	0	0	0	-1.61	-1.62	0	0	0	0	0	0
6/26/2024 18:56	46206	DANV_T2	2	3	1	1.1	1.75	0.65	0	0	0	0	0	0	0	0
6/26/2024 18:57	44902	SCOT_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
6/26/2024 18:57	47802	MOCA_T2	11	9	-2	0.15	0.11	-0.04	-0.72	-0.73	0	0	0	0	0	0
6/26/2024 18:58	47802	MOCA_T2	11	9	-2	0.15	0.11	-0.04	-0.72	-0.73	0	0	0	0	0	0
6/26/2024 19:03	25402	LAHA_T2	0	74	74	0	0.21	0.21	-0.61	-0.67	0	0	0	0	0	0
6/26/2024 19:06	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 19:07	25503	MADI_T1	0	17	17	0	0.16	0.16	-0.74	-0.6	0	0	0	0	0	0
6/26/2024 19:07	25501	MADI_T1	0	344	344	0	0.2	0.2	0	0	0	0	0	0	0	0
6/26/2024 19:16	12701	MACU_T1	2	1	-1	1.5	0	-1.5	-0.58	-0.6	1	1	0	1200	1200	0
6/26/2024 19:17	23401	HONE_T2	0	1	1	0	0	0	-0.07	-0.4	0	0	0	0	0	0
6/26/2024 19:22	29402	BELT_T1	1	134	133	8.4	9.1	0.7	0	0	0	0	0	0	0	0
6/26/2024 19:22	29401	BELT_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
6/26/2024 19:23	41602	CLEV_T1	1	1	0	0.2	0.2	0	0	0	1	1	0	600	600	0
6/26/2024 19:51	47401	PENS_T1	2	2	0	0.3	0.1	-0.2	0.79	0.76	0	0	0	0	0	0
6/26/2024 19:55	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 19:55	40502	CRES_T2	50	1	-49	0.42	0	-0.42	-0.34	-0.36	0	0	0	0	0	0
6/26/2024 19:57	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 19:57	40502	CRES_T2	50	1	-49	0.42	0	-0.42	-0.69	-0.73	0	0	0	0	0	0
6/26/2024 20:11	40101	HUNT_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
6/26/2024 20:29	61102	BERK_T5	0	0	0	0	0	0	0.49	0.45	1	1	0	300	300	0
6/26/2024 20:31	24105	EHAZ_T1	4	4	0	5.8	5.58	-0.22	0	0	0	0	0	0	0	0
6/26/2024 20:31	24102	EHAZ_T1	20	3	-17	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/26/2024 20:31	24103	EHAZ_T1	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
6/26/2024 20:34	56802	BENV_T2	0	160	160	0	0	0	-0.1	-0.23	0	0	0	0	0	0
6/26/2024 20:35	56802	BENV_T2	0	160	160	0	0	0	-0.1	-0.23	0	0	0	0	0	0
6/26/2024 20:37	56802	BENV_T2	0	160	160	0	0	0	-0.23	-0.16	0	0	0	0	0	0
6/26/2024 20:38	56802	BENV_T2	0	160	160	0	0	0	-0.23	-0.16	0	0	0	0	0	0
6/26/2024 20:41	45602	WOOL_T1	0	0	0	0	0	0	0.95	0.93	0	0	0	0	0	0
6/26/2024 20:42	45602	WOOL_T1	0	0	0	0	0	0	1.9	1.85	0	0	0	0	0	0
6/26/2024 20:57	67801	WLAN_T1	15	11	-4	0.37	0	-0.37	0.34	0.34	0	0	0	0	0	0
6/26/2024 20:57	16302	ALPA_T2	0	0	0	0	0	0	-0.07	-0.13	0	0	0	0	0	0
6/26/2024 20:57	67804	WLAN_T1	10	6	-4	0.83	0.55	-0.28	0	0	0	0	0	0	0	0
6/26/2024 20:57	24902	WHHA_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
6/26/2024 20:58	28703	HAML_T2	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
6/26/2024 20:58	28702	HAML_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
6/26/2024 20:58	28704	HAML_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/26/2024 20:58	28701	HAML_T2	73	70	-3	0.57	0.59	0.02	0	0	0	0	0	0	0	0
6/26/2024 21:00	16302	ALPA_T2	0	0	0	0	0	0	-0.03	-0.07	0	0	0	0	0	0
6/26/2024 21:01	22001	BOHE_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
6/26/2024 21:01	28805	LAKE_T1	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
6/26/2024 21:01	22003	BOHE_T1	37	56	19	0.16	0.16	0	0	0	0	0	0	0	0	0
6/26/2024 21:02	16302	ALPA_T2	0	0	0	0	0	0	-0.03	-0.07	0	0	0	0	0	0
6/26/2024 21:19	28805	LAKE_T1	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
6/26/2024 21:21	64101	REFR_T1	0	0	0	0	0	0	0.01	0.57	0	0	0	0	0	0
6/26/2024 21:22	43304	WATS_T2	1	2	1	0.5	0	-0.5	-0.1	-0.13	0	0	0	0	0	0
6/26/2024 21:22	43301	WATS_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/26/2024 21:22	13503	MCMI_T2	0	0	0	0	0	0	-0.65	0.25	0	0	0	0	0	0
6/26/2024 21:24	43402	BENT_T1	0	4	4	0	0.4	0.4	-1.67	-1.69	2	2	0	1800	1800	0
6/26/2024 21:30	56802	BENV_T2	1	1	0	0.7	0.5	-0.2	-0.03	-0.05	0	0	0	0	0	0
6/26/2024 21:30	12301	LANA_T2	1	0	-1	0.5	0	-0.5	-0.87	-0.9	0	0	0	0	0	0
6/26/2024 21:30	12305	LANA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/26/2024 22:07	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:11	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:11	55101	WERT_T1	0	0	0	0	0	0	-1.76	-1.79	3	3	0	2400	2400	0
6/26/2024 22:14	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:14	55002	NEWP_T1	2	1	-1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
6/26/2024 22:14	55001	NEWP_T1	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
6/26/2024 22:16	55002	NEWP_T1	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/26/2024 22:16	21203	ECAR_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
6/26/2024 22:16	55001	NEWP_T1	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
6/26/2024 22:17	17002	RIRO_T2	1	1	0	1.8	1.5	-0.3	0.65	0.62	0	0	0	0	0	0
6/26/2024 22:20	53302	GRAT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:20	55001	NEWP_T1	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
6/26/2024 22:20	55002	NEWP_T1	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/26/2024 22:20	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:20	44301	BEAV_T2	1	1	0	1.6	1.6	0	0.14	0.37	1	1	0	600	600	0
6/26/2024 22:21	13503	MCMI_T2	0	30	30	0	0.18	0.18	0.22	0.2	0	0	0	0	0	0
6/26/2024 22:22	44301	BEAV_T2	1	1	0	1.6	1.6	0	0.37	0.29	1	1	0	600	600	0
6/26/2024 22:22	46901	MNTG_T2	0	0	0	0	0	0	0.47	0.41	1	1	0	1200	1200	0
6/26/2024 22:22	42902	MIDD_T2	0	0	0	0	0	0	-0.93	-0.94	1	1	0	600	600	0
6/26/2024 22:23	52403	GRPA_T2	6	2	-4	0.4	0.3	-0.1	0.25	0.23	0	0	0	0	0	0
6/26/2024 22:23	47001	HUGH_T2	3	3	0	8.37	8.67	0.3	-0.67	-0.7	0	0	0	0	0	0
6/26/2024 22:24	40101	HUNT_T2	0	1	1	0	0	0	-0.32	-0.34	0	0	0	0	0	0
6/26/2024 22:24	64204	KINZ_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
6/26/2024 22:24	64201	KINZ_T1	0	0	0	0	0	0	-0.36	-0.41	3	3	0	1500	1500	0
6/26/2024 22:24	64202	KINZ_T1	1	3	2	1	0.7	-0.3	0	0	0	0	0	0	0	0
6/26/2024 22:25	61701	ELIZ_T1	1	1	0	4.2	4.5	0.3	0	0	0	0	0	0	0	0
6/26/2024 22:25	64101	REFR_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
6/26/2024 22:25	61102	BERK_T5	0	0	0	0	0	0	0.02	-0.01	1	1	0	300	300	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/26/2024 22:25	43304	WATS_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
6/26/2024 22:25	64203	KINZ_T1	0	0	0	0	0	0	0.02	0.02	1	1	0	600	600	0
6/26/2024 22:25	64204	KINZ_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
6/26/2024 22:25	64202	KINZ_T1	1	3	2	1	0.7	-0.3	0	0	0	0	0	0	0	0
6/26/2024 22:25	61703	ELIZ_T1	0	0	0	0	0	0	-2.37	-2.37	2	2	0	2100	2100	0
6/26/2024 22:25	43301	WATS_T2	1	3	2	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/26/2024 22:26	42701	AUGU_T1	56	56	0	0.63	0.41	-0.22	0	0	0	0	0	0	0	0
6/26/2024 22:26	20401	ASHF_T2	3	3	0	0.2	0.63	0.43	0.15	0.13	0	0	0	0	0	0
6/26/2024 22:26	64201	KINZ_T1	0	0	0	0	0	0	-0.36	-0.41	3	3	0	1500	1500	0
6/26/2024 22:26	61701	ELIZ_T1	1	1	0	4.2	4.5	0.3	0	0	0	0	0	0	0	0
6/26/2024 22:26	64204	KINZ_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
6/26/2024 22:26	61703	ELIZ_T1	0	0	0	0	0	0	-4.74	-4.74	4	4	0	4200	4200	0
6/26/2024 22:26	64202	KINZ_T1	1	3	2	1	0.7	-0.3	0	0	0	0	0	0	0	0
6/26/2024 22:27	46206	DANV_T2	1	1	0	0.5	0.2	-0.3	1.7	1.69	2	2	0	2100	2100	0
6/26/2024 22:27	64101	REFR_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
6/26/2024 22:27	64201	KINZ_T1	0	0	0	0	0	0	-0.36	-0.41	3	3	0	1500	1500	0
6/26/2024 22:27	43202	MVIL_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
6/26/2024 22:27	29402	BELT_T1	1	1	0	6.1	6.5	0.4	0	0	0	0	0	0	0	0
6/26/2024 22:27	64204	KINZ_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
6/26/2024 22:27	40101	HUNT_T2	0	1	1	0	0	0	-0.32	-0.34	0	0	0	0	0	0
6/26/2024 22:27	64202	KINZ_T1	1	3	2	1	0.7	-0.3	0	0	0	0	0	0	0	0
6/26/2024 22:27	45802	HEGI_T2	6	7	1	0.2	0.29	0.09	0.63	0.64	1	1	0	300	300	0
6/26/2024 22:28	40602	PIGR_T1	1	1	0	0.4	0.2	-0.2	0.41	0.37	0	0	0	0	0	0
6/26/2024 22:28	55102	WERT_T2	0	0	0	0	0	0	-0.84	-0.87	2	2	0	1200	1200	0
6/26/2024 22:29	60803	BUCK_T1	8	13	5	0.24	0.25	0.01	0	0	0	0	0	0	0	0
6/26/2024 22:29	64204	KINZ_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
6/26/2024 22:29	60801	BUCK_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
6/26/2024 22:29	64202	KINZ_T1	1	3	2	1	0.7	-0.3	0	0	0	0	0	0	0	0
6/26/2024 22:29	47001	HUGH_T2	3	3	0	8.37	8.67	0.3	-0.67	-0.7	0	0	0	0	0	0
6/26/2024 22:29	64203	KINZ_T1	0	0	0	0	0	0	0.02	0.02	1	1	0	600	600	0
6/26/2024 22:30	55101	WERT_T1	0	0	0	0	0	0	-1.79	-1.82	3	3	0	2400	2400	0
6/26/2024 22:30	55105	WERT_T1	0	63	63	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:30	64202	KINZ_T1	3	3	0	0.7	0.27	-0.43	0	0	0	0	0	0	0	0
6/26/2024 22:30	63401	HONY_T1	0	0	0	0	0	0	0.28	0.33	1	1	0	600	600	0
6/26/2024 22:30	64201	KINZ_T1	0	1	1	0	0.7	0.7	-0.36	-0.41	3	3	0	1500	1500	0
6/26/2024 22:30	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
6/26/2024 22:30	64101	REFR_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
6/26/2024 22:31	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:31	46302	ROHR_T1	4	4	0	0.88	1.7	0.82	0	0	0	0	0	0	0	0
6/26/2024 22:31	64101	REFR_T1	0	0	0	0	0	0	0.94	0.87	0	0	0	0	0	0
6/26/2024 22:31	43304	WATS_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
6/26/2024 22:31	52403	GRPA_T2	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
6/26/2024 22:31	58001	WCAR_T1	4	4	0	0.2	0.83	0.63	0	0	0	0	0	0	0	0
6/26/2024 22:31	66504	SMAN_T2	0	0	0	0	0	0	-0.8	-0.91	1	1	0	1200	1200	0
6/26/2024 22:31	58003	WCAR_T1	1	1	0	0.8	1.1	0.3	0.96	0.94	0	0	0	0	0	0
6/26/2024 22:31	61505	EPET_T1	0	0	0	0	0	0	1.15	1.11	0	0	0	0	0	0
6/26/2024 22:31	52404	GRPA_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
6/26/2024 22:31	46301	ROHR_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
6/26/2024 22:31	43301	WATS_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/26/2024 22:31	52401	GRPA_T2	0	370	370	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:31	63202	MGTN_T2	0	0	0	0	0	0	-0.01	-0.02	1	1	0	900	900	0
6/26/2024 22:32	61701	ELIZ_T1	1	1	0	4.4	4.7	0.3	0	0	0	0	0	0	0	0
6/26/2024 22:32	67603	WARW_T1	0	0	0	0	0	0	-0.57	-0.61	0	0	0	0	0	0
6/26/2024 22:32	43301	WATS_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/26/2024 22:32	61703	ELIZ_T1	0	0	0	0	0	0	-2.37	-2.37	2	2	0	2100	2100	0
6/26/2024 22:32	65001	NEFF_T2	0	0	0	0	0	0	-0.21	-0.22	1	1	0	1200	1200	0
6/26/2024 22:32	60201	ATGL_T2	14	9	-5	0.18	0.13	-0.05	-0.71	-0.85	2	2	0	600	600	0
6/26/2024 22:32	52401	GRPA_T2	0	370	370	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:32	55002	NEWP_T1	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
6/26/2024 22:32	43304	WATS_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
6/26/2024 22:32	52403	GRPA_T2	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
6/26/2024 22:32	64101	REFR_T1	0	0	0	0	0	0	0.94	0.87	0	0	0	0	0	0
6/26/2024 22:32	52404	GRPA_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
6/26/2024 22:32	67605	WARW_T1	0	0	0	0	0	0	-1.02	-1.06	0	0	0	0	0	0
6/26/2024 22:32	47802	MOCA_T2	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
6/26/2024 22:32	11104	EGYP_T1	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
6/26/2024 22:32	64302	LINC_T2	0	0	0	0	0	0	1.44	1.31	0	0	0	0	0	0
6/26/2024 22:32	55001	NEWP_T1	0	0	0	0	0	0	-0.58	-0.01	0	0	0	0	0	0
6/26/2024 22:33	58003	WCAR_T1	1	1	0	0.8	1.1	0.3	0.96	0.94	0	0	0	0	0	0
6/26/2024 22:33	12701	MACU_T1	0	0	0	0	0	0	-1.74	-1.78	2	2	0	2400	2400	0
6/26/2024 22:33	11104	EGYP_T1	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
6/26/2024 22:33	67605	WARW_T1	0	0	0	0	0	0	-1.02	-1.06	0	0	0	0	0	0
6/26/2024 22:33	29402	BELT_T1	1	1	0	6.1	7	0.9	0	0	0	0	0	0	0	0
6/26/2024 22:33	63402	HONY_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/26/2024 22:33	52002	LING_T2	0	0	0	0	0	0	0.61	0.56	0	0	0	0	0	0
6/26/2024 22:33	63401	HONY_T1	0	0	0	0	0	0	0.28	0.33	1	1	0	600	600	0
6/26/2024 22:33	55105	WERT_T1	0	63	63	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:33	63403	HONY_T2	0	0	0	0	0	0	-0.53	-0.57	0	0	0	0	0	0
6/26/2024 22:33	55101	WERT_T1	0	0	0	0	0	0	-1.79	-1.82	3	3	0	2400	2400	0
6/26/2024 22:33	43202	MVIL_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
6/26/2024 22:33	58001	WCAR_T1	4	4	0	0.2	0.83	0.63	0	0	0	0	0	0	0	0
6/26/2024 22:33	52004	LING_T2	0	33	33	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:33	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:33	56801	BENV_T1	10	12	2	0.72	1.19	0.47	-0.45	-0.47	1	1	0	600	600	0
6/26/2024 22:33	49803	UNIV_T1	0	18	18	0	0.14	0.14	-0.84	-0.87	0	0	0	0	0	0
6/26/2024 22:33	66504	SMAN_T2	0	0	0	0	0	0	-1.59	-1.82	2	2	0	2400	2400	0
6/26/2024 22:34	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/26/2024 22:34	58001	WCAR_T1	4	4	0	0.2	0.83	0.63	0	0	0	0	0	0	0	0
6/26/2024 22:34	64101	REFR_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
6/26/2024 22:34	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
6/26/2024 22:34	64201	KINZ_T1	0	1	1	0	0.7	0.7	-0.36	-0.41	3	3	0	1500	1500	0
6/26/2024 22:34	58003	WCAR_T1	1	1	0	0.8	1.1	0.3	0.96	0.94	0	0	0	0	0	0
6/26/2024 22:34	64202	KINZ_T1	3	3	0	0.7	0.27	-0.43	0	0	0	0	0	0	0	0
6/26/2024 22:34	46801	HEPB_T2	10	2	-8	0.43	1.4	0.97	-0.13	-0.15	0	0	0	0	0	0
6/26/2024 22:35	51003	NHAR_T1	1	4	3	0.2	0.1	-0.1	-0.12	-0.13	1	1	0	1200	1200	0
6/26/2024 22:35	67605	WARW_T1	0	0	0	0	0	0	-1.02	-1.06	0	0	0	0	0	0
6/26/2024 22:35	61102	BERK_T5	0	0	0	0	0	0	0.05	-0.04	3	3	0	900	900	0
6/26/2024 22:35	64101	REFR_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
6/26/2024 22:35	51004	NHAR_T1	1	1	0	6.5	6.2	-0.3	0	0	0	0	0	0	0	0
6/26/2024 22:35	51002	NHAR_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
6/26/2024 22:35	40902	JESH_T1	0	0	0	0	0	0	-1.13	-1.16	1	1	0	600	600	0
6/26/2024 22:35	40901	JESH_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
6/26/2024 22:35	44801	EDAN_T2	1	1	0	0.2	0.1	-0.1	0.73	0.72	0	0	0	0	0	0
6/26/2024 22:35	60201	ATGL_T2	14	9	-5	0.18	0.13	-0.05	-0.36	-0.42	1	1	0	300	300	0
6/26/2024 22:36	64101	REFR_T1	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
6/26/2024 22:36	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:36	67605	WARW_T1	0	0	0	0	0	0	-1.06	-1.04	0	0	0	0	0	0
6/26/2024 22:36	43802	SWIL_T1	0	0	0	0	0	0	0.05	0.03	1	1	0	600	600	0
6/26/2024 22:36	43304	WATS_T2	0	0	0	0	0	0	-0.5	-0.56	0	0	0	0	0	0
6/26/2024 22:36	60201	ATGL_T2	14	9	-5	0.18	0.13	-0.05	-0.42	-0.4	1	1	0	300	300	0
6/26/2024 22:36	61102	BERK_T5	0	0	0	0	0	0	-0.03	0.05	2	2	0	600	600	0
6/26/2024 22:36	13503	MCMI_T2	0	30	30	0	0.18	0.18	0.2	-0.72	0	0	0	0	0	0
6/26/2024 22:36	60101	COCA_T1	0	0	0	0	0	0	-0.5	-0.53	1	1	0	1200	1200	0
6/26/2024 22:36	44202	POIN_T2	0	1	1	0	0	0	-0.35	-0.35	1	1	0	1200	1200	0
6/26/2024 22:36	44801	EDAN_T2	1	1	0	0.2	0.1	-0.1	0.72	0.71	0	0	0	0	0	0
6/26/2024 22:36	43801	SWIL_T1	2	2	0	3.15	3.1	-0.05	0	0	0	0	0	0	0	0
6/26/2024 22:36	55101	WERT_T1	0	0	0	0	0	0	-1.79	-1.82	3	3	0	2400	2400	0
6/26/2024 22:36	43301	WATS_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/26/2024 22:36	67203	TEHI_T1	0	0	0	0	0	0	1.62	2.52	3	3	0	2400	2400	0
6/26/2024 22:36	61703	ELIZ_T1	0	0	0	0	0	0	-2.37	-2.21	2	2	0	2100	2100	0
6/26/2024 22:36	56801	BENV_T1	10	12	2	0.72	1.19	0.47	-0.45	-0.47	1	1	0	600	600	0
6/26/2024 22:36	55105	WERT_T1	0	63	63	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:36	61701	ELIZ_T1	1	1	0	4.4	4.7	0.3	0	0	0	0	0	0	0	0
6/26/2024 22:37	12701	MACU_T1	0	0	0	0	0	0	-0.89	-0.91	1	1	0	1200	1200	0
6/26/2024 22:37	53501	EVIL_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
6/26/2024 22:37	55105	WERT_T1	0	63	63	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:37	53502	EVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/26/2024 22:37	67605	WARW_T1	0	0	0	0	0	0	-2.12	-2.08	0	0	0	0	0	0
6/26/2024 22:37	11802	FRAN_T1	3	0	-3	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/26/2024 22:37	43304	WATS_T2	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
6/26/2024 22:37	55101	WERT_T1	0	0	0	0	0	0	-1.82	-1.85	3	3	0	2400	2400	0
6/26/2024 22:37	40602	PIGR_T1	1	1	0	0.4	0	-0.4	0.37	0.34	0	0	0	0	0	0
6/26/2024 22:37	43301	WATS_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/26/2024 22:37	44801	EDAN_T2	1	1	0	0.2	0.1	-0.1	0.72	0.71	0	0	0	0	0	0
6/26/2024 22:37	11804	FRAN_T1	51	20	-31	0.56	0.5	-0.06	-0.39	0.38	1	0	-1	1200	0	-1200
6/26/2024 22:38	44901	SCOT_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:38	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
6/26/2024 22:38	64201	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/26/2024 22:38	40603	PIGR_T1	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
6/26/2024 22:38	47802	MOCA_T2	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
6/26/2024 22:38	64202	KINZ_T1	3	3	0	0.7	0.27	-0.43	0	0	0	0	0	0	0	0
6/26/2024 22:38	64203	KINZ_T1	0	0	0	0	0	0	0.03	-0.08	2	2	0	1200	1200	0
6/26/2024 22:38	44902	SCOT_T2	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
6/26/2024 22:38	40602	PIGR_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/26/2024 22:38	61102	BERK_T5	0	0	0	0	0	0	-0.01	0.02	1	1	0	300	300	0
6/26/2024 22:38	11104	EGYP_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
6/26/2024 22:39	40101	HUNT_T2	1	0	-1	0.3	0	-0.3	-0.34	-0.36	0	0	0	0	0	0
6/26/2024 22:39	67201	TEHI_T1	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
6/26/2024 22:39	50501	MECH_T1	1	3	2	0.1	0.2	0.1	-0.01	-0.43	0	0	0	0	0	0
6/26/2024 22:39	64201	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/26/2024 22:39	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
6/26/2024 22:39	64203	KINZ_T1	0	0	0	0	0	0	0.02	-0.04	1	1	0	600	600	0
6/26/2024 22:39	50502	MECH_T1	1	0	-1	1.2	1.2	0	0	0	0	0	0	0	0	0
6/26/2024 22:39	64202	KINZ_T1	3	3	0	0.7	0.27	-0.43	0	0	0	0	0	0	0	0
6/26/2024 22:39	60101	COCA_T1	0	0	0	0	0	0	-0.5	-0.53	1	1	0	1200	1200	0
6/26/2024 22:40	52004	LING_T2	0	33	33	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:40	44801	EDAN_T2	1	1	0	0.2	0.1	-0.1	0.72	0.71	0	0	0	0	0	0
6/26/2024 22:40	67204	TEHI_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
6/26/2024 22:40	52401	GRPA_T2	0	370	370	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:40	55105	WERT_T1	0	63	63	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:40	20601	GRWO_T2	0	0	0	0	0	0	1.38	1.36	0	0	0	0	0	0
6/26/2024 22:40	55101	WERT_T1	0	0	0	0	0	0	-1.82	-1.85	3	3	0	2400	2400	0
6/26/2024 22:40	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/26/2024 22:40	61102	BERK_T5	0	0	0	0	0	0	-0.01	0.02	1	1	0	300	300	0
6/26/2024 22:40	67605	WARW_T1	0	0	0	0	0	0	-1.06	-1.04	0	0	0	0	0	0
6/26/2024 22:40	52002	LING_T2	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
6/26/2024 22:40	52403	GRPA_T2	2	1	-1	0.45	0	-0.45	0.23	0.21	0	0	0	0	0	0
6/26/2024 22:41	52002	LING_T2	0	0	0	0	0	0	1.13	1.04	0	0	0	0	0	0
6/26/2024 22:41	55105	WERT_T1	0	63	63	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:41	55101	WERT_T1	0	0	0	0	0	0	-1.82	-1.85	3	3	0	2400	2400	0
6/26/2024 22:41	52004	LING_T2	0	33	33	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:42	25603	ARRO_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
6/26/2024 22:42	67204	TEHI_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
6/26/2024 22:42	41901	REED_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
6/26/2024 22:42	41902	REED_T1	0	0	0	0	0	0	1.12	1.09	0	0	0	0	0	0
6/26/2024 22:43	52002	LING_T2	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
6/26/2024 22:43	52004	LING_T2	0	33	33	0	0	0	0	0	0	0	0	0	0	0
6/26/2024 22:43	41902	REED_T1	0	0	0	0	0	0	1.12	1.09	0	0	0	0	0	0
6/26/2024 22:43	41901	REED_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
6/26/2024 22:47	65901	SAKR_T2	1	1	0	7.6	8.2	0.6	-0.95	-1	2	2	0	1500	1500	0
6/26/2024 23:03	57303	MOAL_T2	1	1	0	7	6.6	-0.4	0	0	0	0	0	0	0	0
6/26/2024 23:03	57304	MOAL_T2	1	0	-1	10	0	-10	-0.08	-0.07	0	0	0	0	0	0
6/26/2024 23:49	25603	ARRO_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
6/27/2024 0:42	52404	GRPA_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
6/27/2024 1:58	43402	BENT_T1	3	1	-2	0.2	0.1	-0.1	0.05	0.05	0	0	0	0	0	0
6/27/2024 2:30	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 2:47	56504	ROCK_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
6/27/2024 5:08	57203	ROSS_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
6/27/2024 5:09	40502	CRES_T2	3	0	-3	0.1	0	-0.1	-1.43	-1.44	0	0	0	0	0	0
6/27/2024 5:09	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 5:10	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/27/2024 5:13	53901	HALI_T2	1	1	0	0.5	0.5	0	-1.34	-1.33	0	0	0	0	0	0
6/27/2024 5:13	53902	HALI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/27/2024 5:13	53903	HALI_T2	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/27/2024 5:13	58401	MORO_T1	0	0	0	0	0	0	-0.93	-0.91	1	1	0	600	600	0
6/27/2024 5:17	46001	BERW_T1	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0
6/27/2024 6:51	41902	REED_T1	0	1	1	0	0	0	1.08	1.09	0	0	0	0	0	0
6/27/2024 6:52	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 6:53	24902	WHHA_T1	0	8	8	0	0	0	0.41	0.42	0	0	0	0	0	0
6/27/2024 6:54	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 6:57	62102	ELAN_T1	0	0	0	0	0	0	0.76	0.81	0	0	0	0	0	0
6/27/2024 6:59	64904	MILL_T1	0	2	2	0	0	0	-0.2	-0.22	0	0	0	0	0	0
6/27/2024 6:59	15203	SFAR_T2	11	5	-6	0.18	0.1	-0.08	-1.4	-1.39	0	0	0	0	0	0
6/27/2024 7:00	63804	HEMP_T1	1	1	0	5.9	6.3	0.4	0	0	0	0	0	0	0	0
6/27/2024 7:00	63801	HEMP_T1	0	0	0	0	0	0	-0.4	-0.41	1	1	0	900	900	0
6/27/2024 7:01	15203	SFAR_T2	5	4	-1	0.1	0.1	0	-2.81	-2.77	0	0	0	0	0	0
6/27/2024 7:02	15203	SFAR_T2	5	4	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/27/2024 7:02	15204	SFAR_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
6/27/2024 7:03	15203	SFAR_T2	5	4	-1	0.1	0.1	0	-1.4	-1.39	0	0	0	0	0	0
6/27/2024 7:03	65401	MARI_T1	0	0	0	0	0	0	-0.02	0.04	0	0	0	0	0	0
6/27/2024 7:05	24901	WHHA_T1	0	0	0	0	0	0	-0.67	-0.7	0	0	0	0	0	0
6/27/2024 7:05	24902	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 7:06	40505	CRES_T2	3	3	0	4.8	4.37	-0.43	0	0	0	0	0	0	0	0
6/27/2024 7:06	40504	CRES_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
6/27/2024 7:09	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 7:12	46803	HEPB_T2	1	3	2	0.1	0.17	0.07	0.55	0.55	0	0	0	0	0	0
6/27/2024 7:12	46801	HEPB_T2	3	6	3	0.63	0.43	-0.2	0	0	0	0	0	0	0	0
6/27/2024 7:17	15203	SFAR_T2	1	4	3	0.1	0.1	0	-1.39	-1.37	0	0	0	0	0	0
6/27/2024 7:19	16301	ALPA_T1	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
6/27/2024 7:22	67803	WLAN_T1	0	0	0	0	0	0	-1.28	-1.26	0	0	0	0	0	0
6/27/2024 7:24	29401	BELT_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
6/27/2024 7:24	29402	BELT_T1	1	1	0	7.7	8.2	0.5	0	0	0	0	0	0	0	0
6/27/2024 7:25	11205	ELHE_T1	0	0	0	0	0	0	-0.13	-0.02	1	1	0	1200	1200	0
6/27/2024 7:25	22003	BOHE_T1	216	199	-17	0.46	0.33	-0.13	0	0	0	0	0	0	0	0
6/27/2024 7:25	22002	BOHE_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/27/2024 7:28	54505	ENOL_T2	0	0	0	0	0	0	-1.24	-1.22	1	1	0	600	600	0
6/27/2024 7:35	40101	HUNT_T2	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
6/27/2024 7:37	67002	STHI_T2	0	0	0	0	0	0	0.92	0.99	0	0	0	0	0	0
6/27/2024 7:37	67001	STHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/27/2024 7:38	56501	ROCK_T2	0	2	2	0	0.1	0.1	-6.43	-6.4	0	0	0	0	0	0
6/27/2024 7:40	43304	WATS_T2	0	0	0	0	0	0	-0.21	-0.17	1	1	0	600	600	0
6/27/2024 7:40	56501	ROCK_T2	0	2	2	0	0.1	0.1	-2.14	-2.13	0	0	0	0	0	0
6/27/2024 7:47	58401	MORO_T1	0	0	0	0	0	0	-0.67	-0.66	1	1	0	600	600	0
6/27/2024 7:49	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 7:50	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 7:50	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/27/2024 7:50	67002	STHI_T2	0	0	0	0	0	0	0.92	0.99	0	0	0	0	0	0
6/27/2024 7:51	67804	WLAN_T1	0	0	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0
6/27/2024 7:51	40302	TAMA_T3	0	0	0	0	0	0	-1	-1	1	1	0	1200	1200	0
6/27/2024 7:52	16204	POFA_T1	0	435	435	0	0.18	0.18	0	0	0	0	0	0	0	0
6/27/2024 7:52	16202	POFA_T1	0	22	22	0	0.13	0.13	0	0	0	0	0	0	0	0
6/27/2024 7:52	20603	GRWO_T2	0	0	0	0	0	0	-3.54	-3.52	4	4	0	4200	4200	0
6/27/2024 7:53	67804	WLAN_T1	0	0	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0
6/27/2024 7:55	61801	EELI_T2	1	0	-1	0.1	0	-0.1	-0.34	-0.31	1	1	0	600	600	0
6/27/2024 7:56	55002	NEWP_T1	6	10	4	0.75	0.95	0.2	-0.13	-0.13	0	0	0	0	0	0
6/27/2024 7:57	55002	NEWP_T1	6	10	4	0.75	0.95	0.2	-0.13	-0.13	0	0	0	0	0	0
6/27/2024 7:58	55002	NEWP_T1	6	10	4	0.75	0.95	0.2	-0.13	-0.13	0	0	0	0	0	0
6/27/2024 8:07	15702	TANN_T2	0	0	0	0	0	0	-0.23	-0.29	0	0	0	0	0	0
6/27/2024 8:07	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
6/27/2024 8:10	67605	WARW_T1	2	0	-2	0.2	0	-0.2	-0.79	-0.71	0	0	0	0	0	0
6/27/2024 8:10	67604	WARW_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
6/27/2024 8:12	52403	GRPA_T2	0	1	1	0	0.2	0.2	-0.24	-0.25	0	0	0	0	0	0
6/27/2024 8:12	52402	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/27/2024 8:13	11102	EGYP_T1	0	1	1	0	0	0	-0.09	-0.07	0	0	0	0	0	0
6/27/2024 8:15	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 8:15	50502	MECH_T1	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
6/27/2024 8:15	50505	MECH_T1	0	0	0	0	0	0	-3.11	-3.02	0	0	0	0	0	0
6/27/2024 8:15	11102	EGYP_T1	1	0	-1	0.1	0	-0.1	-0.09	-0.07	0	0	0	0	0	0
6/27/2024 8:15	50501	MECH_T1	4	4	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
6/27/2024 8:20	13501	MCMI_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
6/27/2024 8:23	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
6/27/2024 8:23	56802	BENV_T2	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
6/27/2024 8:23	56501	ROCK_T2	80	129	49	0.19	0.23	0.04	-2.12	-2.11	0	0	0	0	0	0
6/27/2024 8:23	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/27/2024 8:23	15702	TANN_T2	0	0	0	0	0	0	-0.29	-0.16	0	0	0	0	0	0
6/27/2024 8:24	56802	BENV_T2	0	0	0	0	0	0	-1.71	-1.69	0	0	0	0	0	0
6/27/2024 8:24	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/27/2024 8:24	56501	ROCK_T2	80	129	49	0.19	0.23	0.04	-2.12	-2.11	0	0	0	0	0	0
6/27/2024 8:25	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/27/2024 8:25	56501	ROCK_T2	80	129	49	0.19	0.23	0.04	-6.35	-6.33	0	0	0	0	0	0
6/27/2024 8:25	56802	BENV_T2	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
6/27/2024 8:26	53902	HALI_T2	2	1	-1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
6/27/2024 8:26	53901	HALI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/27/2024 8:26	53903	HALI_T2	3	3	0	1.2	2.93	1.73	-0.06	-0.05	0	0	0	0	0	0
6/27/2024 8:27	40801	EXCH_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/27/2024 8:27	40802	EXCH_T2	0	1	1	0	0.8	0.8	-0.25	-0.29	0	0	0	0	0	0
6/27/2024 8:28	40801	EXCH_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/27/2024 8:28	53901	HALI_T2	1	1	0	0.5	0.7	0.2	-3.66	-3.62	0	0	0	0	0	0
6/27/2024 8:28	56802	BENV_T2	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
6/27/2024 8:28	53902	HALI_T2	2	1	-1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
6/27/2024 8:28	53903	HALI_T2	3	3	0	1.2	2.93	1.73	0	0	0	0	0	0	0	0
6/27/2024 8:28	40802	EXCH_T2	0	1	1	0	0.8	0.8	-0.25	-0.29	0	0	0	0	0	0
6/27/2024 8:28	62102	ELAN_T1	0	0	0	0	0	0	0.99	1.08	0	0	0	0	0	0
6/27/2024 8:30	53903	HALI_T2	3	4	1	2.93	2.45	-0.48	0	0	0	0	0	0	0	0
6/27/2024 8:30	40801	EXCH_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
6/27/2024 8:30	53902	HALI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/27/2024 8:30	53901	HALI_T2	1	1	0	0.7	0.7	0	-3.66	-3.62	0	0	0	0	0	0
6/27/2024 8:30	40802	EXCH_T2	1	1	0	0.1	0.8	0.7	-0.25	-0.29	0	0	0	0	0	0
6/27/2024 8:31	56501	ROCK_T2	126	100	-26	0.23	0.2	-0.03	-2.12	-2.11	0	0	0	0	0	0
6/27/2024 8:31	51204	MTON_T2	0	0	0	0	0	0	-0.26	-0.25	1	1	0	600	600	0
6/27/2024 8:33	58401	MORO_T1	0	0	0	0	0	0	-0.62	-0.6	1	1	0	600	600	0
6/27/2024 8:36	20601	GRWO_T2	0	0	0	0	0	0	1.25	1.22	0	0	0	0	0	0
6/27/2024 8:36	51204	MTON_T2	0	0	0	0	0	0	-0.26	-0.25	1	1	0	600	600	0
6/27/2024 8:36	20603	GRWO_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
6/27/2024 8:36	52004	LING_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
6/27/2024 8:36	23001	SAJO_T1	1	1	0	0.2	0.1	-0.1	0.49	0.47	0	0	0	0	0	0
6/27/2024 8:37	29401	BELT_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/27/2024 8:37	23001	SAJO_T1	1	1	0	0.2	0.1	-0.1	0.24	0.23	0	0	0	0	0	0
6/27/2024 8:37	44301	BEAV_T2	2	2	0	1	0.6	-0.4	0.69	0.75	2	2	0	1500	1500	0
6/27/2024 8:38	55405	SHER_T1	11	11	0	1.26	1.08	-0.18	-0.1	-0.08	0	0	0	0	0	0
6/27/2024 8:38	67605	WARW_T1	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
6/27/2024 8:42	21203	ECAR_T1	0	4	4	0	0.35	0.35	0.89	1.05	0	0	0	0	0	0
6/27/2024 8:47	67605	WARW_T1	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
6/27/2024 8:49	66504	SMAN_T2	0	0	0	0	0	0	-1.81	-1.62	2	2	0	2400	2400	0
6/27/2024 8:56	67605	WARW_T1	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
6/27/2024 8:56	66504	SMAN_T2	0	0	0	0	0	0	-0.81	-0.87	1	1	0	1200	1200	0
6/27/2024 8:57	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 8:57	52403	GRPA_T2	0	4	4	0	0.3	0.3	-0.26	0.35	0	0	0	0	0	0
6/27/2024 8:57	52402	GRPA_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/27/2024 9:04	41902	REED_T1	0	0	0	0	0	0	2.45	2.5	0	0	0	0	0	0
6/27/2024 9:04	17002	RIRO_T2	27	8	-19	0.18	0.28	0.1	0.96	0.96	0	0	0	0	0	0
6/27/2024 9:05	15703	TANN_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
6/27/2024 9:05	15702	TANN_T2	0	1	1	0	0.4	0.4	-0.39	-0.36	0	0	0	0	0	0
6/27/2024 9:07	20403	ASHF_T2	2	4	2	0.4	0.35	-0.05	1.45	1.56	0	0	0	0	0	0
6/27/2024 9:07	20401	ASHF_T2	5	14	9	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
6/27/2024 9:11	63304	GREE_T1	0	0	0	0	0	0	-1.29	-1.32	0	0	0	0	0	0
6/27/2024 9:11	40802	EXCH_T2	1	1	0	0.6	0.5	-0.1	-0.4	-0.17	0	0	0	0	0	0
6/27/2024 9:11	40801	EXCH_T2	1	2	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
6/27/2024 9:12	13502	MCMI_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
6/27/2024 9:12	13501	MCMI_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
6/27/2024 9:12	20403	ASHF_T2	2	4	2	0.4	0.35	-0.05	1.45	1.56	0	0	0	0	0	0
6/27/2024 9:12	20401	ASHF_T2	5	14	9	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
6/27/2024 9:13	63304	GREE_T1	0	0	0	0	0	0	-1.29	-1.32	0	0	0	0	0	0
6/27/2024 9:15	40801	EXCH_T2	2	1	-1	0.2	0.7	0.5	-0.23	-0.21	1	1	0	1200	1200	0
6/27/2024 9:15	40802	EXCH_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/27/2024 9:23	49803	UNIV_T1	0	0	0	0	0	0	-0.79	-0.73	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/27/2024 9:29	24202	PROV_T4	5	8	3	0.1	0.1	0	-0.45	-0.45	0	0	0	0	0	0
6/27/2024 9:32	42201	SHEN_T2	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
6/27/2024 9:32	13502	MCMI_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
6/27/2024 9:32	13501	MCMI_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
6/27/2024 9:33	42201	SHEN_T2	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
6/27/2024 9:35	23001	SAJO_T1	0	1	1	0	0.2	0.2	0.23	0.23	0	0	0	0	0	0
6/27/2024 9:35	23002	SAJO_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/27/2024 9:35	14802	TREI_T2	0	0	0	0	0	0	0.77	0.79	0	0	0	0	0	0
6/27/2024 9:36	51202	MTON_T2	0	0	0	0	0	0	-0.92	-0.91	1	1	0	1200	1200	0
6/27/2024 9:39	44301	BEAV_T2	1	3	2	1.2	2	0.8	1.01	1.2	2	2	0	1500	1500	0
6/27/2024 9:41	53902	HALI_T2	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
6/27/2024 9:41	16302	ALPA_T2	0	1	1	0	0.1	0.1	-0.1	-0.01	0	0	0	0	0	0
6/27/2024 9:41	44301	BEAV_T2	1	3	2	1.2	2	0.8	1.01	1.2	2	2	0	1500	1500	0
6/27/2024 9:41	53901	HALI_T2	1	1	0	0.5	0.4	-0.1	-1.16	-1.14	0	0	0	0	0	0
6/27/2024 9:41	53903	HALI_T2	2	3	1	1.3	0.8	-0.5	0.09	0.1	0	0	0	0	0	0
6/27/2024 9:42	53901	HALI_T2	1	1	0	0.5	0.4	-0.1	-1.16	-1.14	0	0	0	0	0	0
6/27/2024 9:42	53902	HALI_T2	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
6/27/2024 9:42	53903	HALI_T2	2	3	1	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
6/27/2024 9:43	53903	HALI_T2	2	3	1	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
6/27/2024 9:43	53901	HALI_T2	1	1	0	0.5	0.4	-0.1	-1.16	-1.14	0	0	0	0	0	0
6/27/2024 9:43	53902	HALI_T2	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
6/27/2024 9:44	53901	HALI_T2	1	1	0	0.5	0.4	-0.1	-2.31	-2.29	0	0	0	0	0	0
6/27/2024 9:44	53903	HALI_T2	2	3	1	1.3	0.8	-0.5	0.09	0.1	0	0	0	0	0	0
6/27/2024 9:44	53902	HALI_T2	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
6/27/2024 9:44	16302	ALPA_T2	0	1	1	0	0.1	0.1	-0.2	-0.03	0	0	0	0	0	0
6/27/2024 9:44	47001	HUGH_T2	3	4	1	7.63	7.97	0.34	-0.46	-0.44	0	0	0	0	0	0
6/27/2024 9:46	47001	HUGH_T2	3	4	1	7.97	7.97	0	-0.46	-0.44	0	0	0	0	0	0
6/27/2024 9:48	53901	HALI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/27/2024 9:48	53902	HALI_T2	2	1	-1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
6/27/2024 9:48	53903	HALI_T2	3	2	-1	0.8	0.9	0.1	0.09	0.1	0	0	0	0	0	0
6/27/2024 9:50	16302	ALPA_T2	1	0	-1	0.1	0	-0.1	-0.1	-0.01	0	0	0	0	0	0
6/27/2024 9:50	43301	WATS_T2	0	0	0	0	0	0	-0.42	-0.4	1	1	0	900	900	0
6/27/2024 9:52	43304	WATS_T2	0	0	0	0	0	0	-0.33	-0.29	0	0	0	0	0	0
6/27/2024 9:53	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.67	-0.62	0	0	0	0	0	0
6/27/2024 9:55	43304	WATS_T2	0	0	0	0	0	0	-0.33	-0.29	0	0	0	0	0	0
6/27/2024 9:56	20401	ASHF_T2	16	16	0	0.47	0.33	-0.14	0	0	0	0	0	0	0	0
6/27/2024 9:56	20403	ASHF_T2	5	2	-3	0.16	0.15	-0.01	1.37	1.43	0	0	0	0	0	0
6/27/2024 9:58	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 9:58	24104	EHAZ_T1	3	0	-3	0.2	0	-0.2	-2.08	-2.02	1	1	0	1200	1200	0
6/27/2024 9:58	24101	EHAZ_T1	18	2	-16	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
6/27/2024 9:58	24105	EHAZ_T1	4	4	0	6.63	6.35	-0.28	0	0	0	0	0	0	0	0
6/27/2024 9:59	46802	HEPB_T1	1	1	0	0.1	0.1	0	-0.01	0	0	0	0	0	0	0
6/27/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
6/27/2024 10:00	29401	BELT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/27/2024 10:00	40503	CRES_T1	3	8	5	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
6/27/2024 10:00	57203	ROSS_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
6/27/2024 10:00	43304	WATS_T2	0	0	0	0	0	0	-0.33	-0.29	0	0	0	0	0	0
6/27/2024 10:00	40505	CRES_T1	3	3	0	4.43	4.3	-0.13	0.59	0.6	0	0	0	0	0	0
6/27/2024 10:00	20601	GRWO_T2	0	0	0	0	0	0	1.22	1.22	0	0	0	0	0	0
6/27/2024 10:00	15702	TANN_T2	0	4	4	0	0.4	0.4	-0.22	-0.14	0	0	0	0	0	0
6/27/2024 10:00	64204	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/27/2024 10:00	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
6/27/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	1.94	2.02	0	0	0	0	0	0
6/27/2024 10:00	64201	KINZ_T1	0	0	0	0	0	0	-0.11	-0.13	4	4	0	2100	2100	0
6/27/2024 10:00	67502	WEWI_T2	1	0	-1	0.3	0	-0.3	-0.73	-0.62	1	1	0	900	900	0
6/27/2024 10:00	66504	SMAN_T2	0	0	0	0	0	0	-0.81	-0.68	1	1	0	1200	1200	0
6/27/2024 10:00	20603	GRWO_T2	0	0	0	0	0	0	-1.67	-1.68	2	2	0	2100	2100	0
6/27/2024 10:00	57205	ROSS_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/27/2024 10:00	29402	BELT_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/27/2024 10:00	13503	MCMI_T2	1	3	2	0.6	0.6	0	0.16	0.19	0	0	0	0	0	0
6/27/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
6/27/2024 10:02	22602	KIMB_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/27/2024 10:04	66502	SMAN_T2	0	0	0	0	0	0	0.54	0.6	0	0	0	0	0	0
6/27/2024 10:05	40601	PIGR_T1	67	91	24	0.22	0.23	0.01	0.3	0.31	0	0	0	0	0	0
6/27/2024 10:06	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
6/27/2024 10:06	40601	PIGR_T1	67	91	24	0.22	0.23	0.01	0.3	0.31	0	0	0	0	0	0
6/27/2024 10:06	15702	TANN_T2	0	4	4	0	0.4	0.4	-0.11	-0.07	0	0	0	0	0	0
6/27/2024 10:06	64101	REFR_T1	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
6/27/2024 10:07	12807	MICK_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/27/2024 10:07	64101	REFR_T1	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
6/27/2024 10:07	66502	SMAN_T2	0	0	0	0	0	0	0.6	0.68	0	0	0	0	0	0
6/27/2024 10:07	12801	MICK_T1	0	0	0	0	0	0	-0.39	-0.35	1	1	0	600	600	0
6/27/2024 10:07	17002	RIRO_T2	2	2	0	0.6	0.6	0	0.96	1.03	0	0	0	0	0	0
6/27/2024 10:08	43304	WATS_T2	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
6/27/2024 10:08	66504	SMAN_T2	0	0	0	0	0	0	-1.37	-1.65	2	2	0	2400	2400	0
6/27/2024 10:09	67605	WARW_T1	1	1	0	0.1	0.1	0	-0.62	-0.58	0	0	0	0	0	0
6/27/2024 10:09	67603	WARW_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
6/27/2024 10:09	56501	ROCK_T2	1	0	-1	9.4	0	-9.4	-1.52	-1.48	0	0	0	0	0	0
6/27/2024 10:10	20403	ASHF_T2	1	2	1	0.1	0.15	0.05	2.87	2.99	0	0	0	0	0	0
6/27/2024 10:10	67605	WARW_T1	1	1	0	0.1	0.1	0	-0.62	-0.58	0	0	0	0	0	0
6/27/2024 10:10	20401	ASHF_T2	11	14	3	0.35	0.59	0.24	0	0	0	0	0	0	0	0
6/27/2024 10:11	20401	ASHF_T2	11	14	3	0.35	0.59	0.24	0.18	0.24	0	0	0	0	0	0
6/27/2024 10:11	67604	WARW_T1	0	0	0	0	0	0	0.48	0.54	0	0	0	0	0	0
6/27/2024 10:11	67605	WARW_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/27/2024 10:11	20403	ASHF_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/27/2024 10:11	44301	BEAV_T2	3	3	0	0.9	1.05	0.15	1.24	1.2	2	2	0	1500	1500	0
6/27/2024 10:11	52002	LING_T2	0	0	0	0	0	0	0.53	0.57	0	0	0	0	0	0
6/27/2024 10:11	63304	GREE_T1	0	0	0	0	0	0	-1.08	-1.09	0	0	0	0	0	0
6/27/2024 10:12	20403	ASHF_T2	1	2	1	0.1	0.15	0.05	1.43	1.5	0	0	0	0	0	0
6/27/2024 10:12	52002	LING_T2	0	0	0	0	0	0	0.53	0.57	0	0	0	0	0	0
6/27/2024 10:12	20401	ASHF_T2	11	14	3	0.35	0.59	0.24	0	0	0	0	0	0	0	0
6/27/2024 10:13	63304	GREE_T1	0	0	0	0	0	0	-1.08	-1.09	0	0	0	0	0	0
6/27/2024 10:13	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
6/27/2024 10:13	11102	EGYP_T1	1	1	0	0.6	0.8	0.2	0.07	0.08	0	0	0	0	0	0
6/27/2024 10:14	63401	HONY_T1	0	0	0	0	0	0	1.02	1.03	0	0	0	0	0	0
6/27/2024 10:15	43402	BENT_T1	71	83	12	0.42	0.48	0.06	-1.08	-1.07	2	2	0	1800	1800	0
6/27/2024 10:15	63401	HONY_T1	0	0	0	0	0	0	1.02	1.03	0	0	0	0	0	0
6/27/2024 10:17	60502	NMAN_T2	0	0	0	0	0	0	0.74	0.98	0	0	0	0	0	0
6/27/2024 10:17	63401	HONY_T1	0	0	0	0	0	0	1.02	1.03	0	0	0	0	0	0
6/27/2024 10:17	60501	NMAN_T2	3	3	0	3.77	4	0.23	0	0	0	0	0	0	0	0
6/27/2024 10:18	40101	HUNT_T2	0	9	9	0	0.4	0.4	-0.25	-0.18	0	0	0	0	0	0
6/27/2024 10:19	43402	BENT_T1	71	83	12	0.42	0.48	0.06	-0.54	-0.53	1	1	0	900	900	0
6/27/2024 10:20	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/27/2024 10:21	67605	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/27/2024 10:21	40601	PIGR_T1	90	93	3	0.22	0.24	0.02	0.31	0.37	0	0	0	0	0	0
6/27/2024 10:21	58003	WCAR_T1	1	3	2	1.3	0.73	-0.57	0.37	0.37	1	1	0	600	600	0
6/27/2024 10:21	14601	SWHI_T1	0	1	1	0	0.1	0.1	-0.55	-0.54	0	0	0	0	0	0
6/27/2024 10:21	67603	WARW_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
6/27/2024 10:21	58001	WCAR_T1	3	5	2	0.67	0.54	-0.13	0	0	0	0	0	0	0	0
6/27/2024 10:21	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/27/2024 10:22	67203	TEHI_T1	1	10	9	0.3	0.4	0.1	2.35	2.3	4	4	0	3000	3000	0
6/27/2024 10:22	67201	TEHI_T1	1	20	19	0.1	0.13	0.03	0	0	0	0	0	0	0	0
6/27/2024 10:22	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.58	-0.58	0	0	0	0	0	0
6/27/2024 10:22	44301	BEAV_T2	3	2	-1	1.07	1	-0.07	1.2	1.02	2	2	0	1500	1500	0
6/27/2024 10:23	44301	BEAV_T2	3	2	-1	1.07	1	-0.07	1.2	1.02	2	2	0	1500	1500	0
6/27/2024 10:23	67601	WARW_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
6/27/2024 10:24	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.58	-0.58	0	0	0	0	0	0
6/27/2024 10:24	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.58	-0.58	0	0	0	0	0	0
6/27/2024 10:24	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.58	-0.58	0	0	0	0	0	0
6/27/2024 10:24	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.58	-0.58	0	0	0	0	0	0
6/27/2024 10:24	43301	WATS_T2	0	0	0	0	0	0	-0.37	-0.36	1	1	0	900	900	0
6/27/2024 10:24	40302	TAMA_T3	0	0	0	0	0	0	-0.97	-0.97	1	1	0	1200	1200	0
6/27/2024 10:25	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.58	-0.58	0	0	0	0	0	0
6/27/2024 10:25	44801	EDAN_T2	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/27/2024 10:25	58003	WCAR_T1	1	3	2	1.3	0.73	-0.57	0.37	0.38	1	1	0	600	600	0
6/27/2024 10:25	58001	WCAR_T1	3	5	2	0.67	0.54	-0.13	0	0	0	0	0	0	0	0
6/27/2024 10:25	44802	EDAN_T2	0	0	0	0	0	0	-1.74	-1.74	1	1	0	1200	1200	0
6/27/2024 10:26	44802	EDAN_T2	0	0	0	0	0	0	-3.49	-3.47	2	2	0	2400	2400	0
6/27/2024 10:26	67603	WARW_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
6/27/2024 10:26	67605	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/27/2024 10:26	44801	EDAN_T2	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/27/2024 10:26	60801	BUCK_T1	0	0	0	0	0	0	0.58	-0.34	0	0	0	0	0	0
6/27/2024 10:26	44301	BEAV_T2	3	2	-1	1.07	1	-0.07	1.2	1.02	2	2	0	1500	1500	0
6/27/2024 10:27	21203	ECAR_T1	0	3	3	0	0.23	0.23	0.92	0.92	0	0	0	0	0	0
6/27/2024 10:27	24202	PROV_T4	0	9	9	0	0.1	0.1	-0.43	-0.43	0	0	0	0	0	0
6/27/2024 10:27	15203	SFAR_T2	5	8	3	0.46	0.51	0.05	-1.16	-1.1	0	0	0	0	0	0
6/27/2024 10:27	44801	EDAN_T2	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/27/2024 10:27	44802	EDAN_T2	0	0	0	0	0	0	-3.49	-3.47	2	2	0	2400	2400	0
6/27/2024 10:28	15204	SFAR_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
6/27/2024 10:28	15203	SFAR_T2	5	8	3	0.46	0.51	0.05	0	0	0	0	0	0	0	0
6/27/2024 10:30	15203	SFAR_T2	8	6	-2	0.51	0.5	-0.01	-1.16	-1.1	0	0	0	0	0	0
6/27/2024 10:30	44802	EDAN_T2	0	0	0	0	0	0	-1.74	-1.74	1	1	0	1200	1200	0
6/27/2024 10:30	44801	EDAN_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/27/2024 10:31	23403	HONE_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
6/27/2024 10:31	16302	ALPA_T2	0	0	0	0	0	0	-0.09	-0.03	0	0	0	0	0	0
6/27/2024 10:32	56803	BENV_T1	1	0	-1	2.1	0	-2.1	0	0	0	0	0	0	0	0
6/27/2024 10:32	15203	SFAR_T2	8	6	-2	0.51	0.5	-0.01	-1.16	-1.1	0	0	0	0	0	0
6/27/2024 10:32	16302	ALPA_T2	0	0	0	0	0	0	-0.19	-0.05	0	0	0	0	0	0
6/27/2024 10:32	15204	SFAR_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
6/27/2024 10:32	56801	BENV_T1	4	6	2	0.4	0.42	0.02	-0.55	-0.53	1	1	0	600	600	0
6/27/2024 10:33	16302	ALPA_T2	0	0	0	0	0	0	-0.09	-0.03	0	0	0	0	0	0
6/27/2024 10:33	40101	HUNT_T2	4	9	5	0.65	0.32	-0.33	-0.18	-0.12	0	0	0	0	0	0
6/27/2024 10:34	41902	REED_T1	5	5	0	0.44	0.35	-0.09	1.37	1.33	0	0	0	0	0	0
6/27/2024 10:34	40101	HUNT_T2	4	9	5	0.65	0.32	-0.33	-0.18	-0.12	0	0	0	0	0	0
6/27/2024 10:35	57303	MOAL_T2	1	1	0	7.1	7.2	0.1	0	0	0	0	0	0	0	0
6/27/2024 10:35	57304	MOAL_T2	19	0	-19	0.33	0	-0.33	0	0	0	0	0	0	0	0
6/27/2024 10:36	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 10:36	40502	CRES_T2	2	3	1	0.35	0	-0.35	-0.07	-0.05	0	0	0	0	0	0
6/27/2024 10:36	60201	ATGL_T2	0	0	0	0	0	0	-0.02	0.15	2	2	0	900	900	0
6/27/2024 10:36	29401	BELT_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/27/2024 10:37	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 10:37	40502	CRES_T2	2	3	1	0.35	0	-0.35	-0.11	0.03	0	0	0	0	0	0
6/27/2024 10:37	58001	WCAR_T1	5	4	-1	0.52	0.7	0.18	0.21	0.23	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/27/2024 10:37	58003	WCAR_T1	1	3	2	1.4	0.73	-0.67	0	0	0	0	0	0	0	0
6/27/2024 10:38	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/27/2024 10:38	41902	REED_T1	5	5	0	0.44	0.35	-0.09	1.33	1.29	0	0	0	0	0	0
6/27/2024 10:38	60801	BUCK_T1	0	0	0	0	0	0	-0.34	-0.1	0	1	1	0	600	600
6/27/2024 10:38	40502	CRES_T2	2	3	1	0.35	0	-0.35	-0.16	0.05	0	0	0	0	0	0
6/27/2024 10:38	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 10:39	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 10:39	40502	CRES_T2	2	3	1	0.35	0	-0.35	-0.33	0.1	0	0	0	0	0	0
6/27/2024 10:39	60201	ATGL_T2	0	0	0	0	0	0	-0.02	0.15	2	2	0	900	900	0
6/27/2024 10:39	29401	BELT_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/27/2024 10:40	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 10:40	40502	CRES_T2	2	3	1	0.35	0	-0.35	-0.27	0.09	0	0	0	0	0	0
6/27/2024 10:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 10:41	40502	CRES_T2	2	3	1	0.35	0	-0.35	-0.05	0.02	0	0	0	0	0	0
6/27/2024 10:42	53601	DALM_T2	1	1	0	0.1	1	0.9	0.2	-0.02	1	1	0	900	900	0
6/27/2024 10:43	53601	DALM_T2	1	1	0	0.1	1	0.9	0.2	-0.02	1	1	0	900	900	0
6/27/2024 10:44	40902	JESH_T1	0	0	0	0	0	0	-0.78	-0.84	1	1	0	600	600	0
6/27/2024 10:44	40901	JESH_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
6/27/2024 10:45	54504	ENOL_T2	1	1	0	0.3	0.3	0	-2.07	-1.92	1	1	0	600	600	0
6/27/2024 10:46	40901	JESH_T1	1	3	2	2	2.1	0.1	0	0	0	0	0	0	0	0
6/27/2024 10:46	40902	JESH_T1	0	0	0	0	0	0	-0.78	-0.84	1	1	0	600	600	0
6/27/2024 10:47	15201	SFAR_T1	0	0	0	0	0	0	0.75	0.77	2	2	0	1800	1800	0
6/27/2024 10:48	15801	WGAT_T1	642	631	-11	0.94	0.81	-0.13	0	0	0	0	0	0	0	0
6/27/2024 10:48	65205	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 10:48	15803	WGAT_T1	419	362	-57	0.64	0.58	-0.06	2.38	2.46	0	0	0	0	0	0
6/27/2024 10:49	65802	RTWN_T2	0	1	1	0	0.4	0.4	0.27	0.29	0	0	0	0	0	0
6/27/2024 10:49	15803	WGAT_T1	419	362	-57	0.64	0.58	-0.06	2.38	2.46	0	0	0	0	0	0
6/27/2024 10:49	15801	WGAT_T1	642	631	-11	0.94	0.81	-0.13	0	0	0	0	0	0	0	0
6/27/2024 10:51	67801	WLAN_T1	0	1	1	0	5.5	5.5	0.08	0.06	0	0	0	0	0	0
6/27/2024 10:52	52002	LING_T2	0	0	0	0	0	0	0.59	0.63	0	0	0	0	0	0
6/27/2024 10:52	67201	TEHI_T1	20	19	-1	0.49	0	-0.49	1.39	0.55	1	1	0	600	600	0
6/27/2024 10:52	67203	TEHI_T1	10	8	-2	0.81	0.55	-0.26	0	0	0	0	0	0	0	0
6/27/2024 10:54	52002	LING_T2	0	0	0	0	0	0	0.59	0.63	0	0	0	0	0	0
6/27/2024 10:56	52004	LING_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
6/27/2024 10:58	17401	FOHI_T1	0	0	0	0	0	0	-1.56	-1.56	0	0	0	0	0	0
6/27/2024 11:00	43402	BENT_T1	9	14	5	0.38	0.37	-0.01	-0.47	-0.49	1	1	0	900	900	0
6/27/2024 11:02	12301	LANA_T2	0	0	0	0	0	0	0.19	-0.99	0	0	0	0	0	0
6/27/2024 11:03	46004	BERW_T2	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
6/27/2024 11:03	46002	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 11:03	25402	LANA_T2	1	2	1	0.3	0.35	0.05	-0.43	-0.56	0	0	0	0	0	0
6/27/2024 11:04	42903	MIDD_T2	0	0	0	0	0	0	0.73	0.64	1	1	0	1200	1200	0
6/27/2024 11:05	66504	SMAN_T2	0	0	0	0	0	0	-1.43	-1.26	2	2	0	2400	2400	0
6/27/2024 11:05	66505	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/27/2024 11:06	59202	THOM_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/27/2024 11:08	59202	THOM_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/27/2024 11:09	20601	GRWO_T2	0	0	0	0	0	0	1.35	1.35	0	0	0	0	0	0
6/27/2024 11:11	43304	WATS_T2	0	0	0	0	0	0	-0.26	-0.22	0	0	0	0	0	0
6/27/2024 11:14	52403	GRPA_T2	8	6	-2	0.41	0.35	-0.06	0.86	0.18	0	0	0	0	0	0
6/27/2024 11:14	52402	GRPA_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
6/27/2024 11:16	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 11:16	42903	MIDD_T2	0	0	0	0	0	0	0.64	1.02	1	1	0	1200	1200	0
6/27/2024 11:19	46005	BERW_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/27/2024 11:19	55003	NEWP_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
6/27/2024 11:19	46001	BERW_T1	0	0	0	0	0	0	1.09	1.14	0	0	0	0	0	0
6/27/2024 11:20	65001	NEFF_T2	0	0	0	0	0	0	0.32	0.37	1	1	0	1200	1200	0
6/27/2024 11:20	16406	MOPO_T1	0	0	0	0	0	0	0.7	0.7	1	1	0	1200	1200	0
6/27/2024 11:20	65005	NEFF_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/27/2024 11:21	58003	WCAR_T1	3	2	-1	0.77	0.6	-0.17	0.4	0.41	1	1	0	600	600	0
6/27/2024 11:21	58001	WCAR_T1	5	3	-2	0.46	0.3	-0.16	0	0	0	0	0	0	0	0
6/27/2024 11:22	58001	WCAR_T1	5	3	-2	0.46	0.3	-0.16	0	0	0	0	0	0	0	0
6/27/2024 11:22	58003	WCAR_T1	3	2	-1	0.77	0.6	-0.17	0.41	0.42	1	1	0	600	600	0
6/27/2024 11:27	15203	SFAR_T2	3	2	-1	0.33	0.15	-0.18	-1.04	-1.03	0	0	0	0	0	0
6/27/2024 11:28	61301	EARL_T1	0	0	0	0	0	0	-1.21	-1.23	2	2	0	1800	1800	0
6/27/2024 11:28	15203	SFAR_T2	3	2	-1	0.33	0.15	-0.18	-1.04	-1.03	0	0	0	0	0	0
6/27/2024 11:29	46801	HEPB_T2	0	0	0	0	0	0	1.02	1.04	0	0	0	0	0	0
6/27/2024 11:29	24102	EHAZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/27/2024 11:29	24103	EHAZ_T1	0	0	0	0	0	0	-0.14	-0.07	0	0	0	0	0	0
6/27/2024 11:29	24101	EHAZ_T1	9	2	-7	0.44	0.2	-0.24	0	0	0	0	0	0	0	0
6/27/2024 11:29	24105	EHAZ_T1	4	4	0	6.7	6.68	-0.02	0	0	0	0	0	0	0	0
6/27/2024 11:29	24104	EHAZ_T1	1	4	3	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
6/27/2024 11:30	46803	HEPB_T2	0	0	0	0	0	0	0.65	0.72	0	0	0	0	0	0
6/27/2024 11:30	61301	EARL_T1	0	0	0	0	0	0	-1.21	-1.23	2	2	0	1800	1800	0
6/27/2024 11:33	45802	HEGI_T2	2	0	-2	0.2	0	-0.2	0.82	0.57	2	2	0	1200	1200	0
6/27/2024 11:34	13502	MCMI_T1	0	1	1	0	0.5	0.5	-0.06	-0.06	0	0	0	0	0	0
6/27/2024 11:34	60902	DONG_T2	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
6/27/2024 11:34	55101	WERT_T1	0	0	0	0	0	0	-4.22	-4.37	8	8	0	6600	6600	0
6/27/2024 11:34	60904	DONG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/27/2024 11:34	52501	PROG_T1	0	0	0	0	0	0	0.56	0.56	1	1	0	300	300	0
6/27/2024 11:34	46004	BERW_T2	0	1	1	0	0.1	0.1	-0.2	-0.31	0	0	0	0	0	0
6/27/2024 11:36	40101	HUNT_T2	8	19	11	0.51	0.44	-0.07	-0.1	-0.08	0	0	0	0	0	0
6/27/2024 11:37	52004	LING_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/27/2024 11:37	61102	BERK_T5	0	0	0	0	0	0	0.96	1	1	1	0	300	300	0
6/27/2024 11:37	52002	LING_T2	0	0	0	0	0	0	0.65	0.72	0	0	0	0	0	0
6/27/2024 11:38	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 11:38	61102	BERK_T5	0	0	0	0	0	0	4.8	5.02	5	5	0	1500	1500	0
6/27/2024 11:38	67804	WLAN_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/27/2024 11:38	67801	WLAN_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
6/27/2024 11:39	61102	BERK_T5	0	0	0	0	0	0	0.96	1	1	1	0	300	300	0
6/27/2024 11:39	60201	ATGL_T2	0	0	0	0	0	0	0.16	0.04	2	2	0	900	900	0
6/27/2024 11:39	61301	EARL_T1	0	0	0	0	0	0	-1.23	-1.24	2	2	0	1800	1800	0
6/27/2024 11:40	61301	EARL_T1	0	0	0	0	0	0	-1.23	-1.24	2	2	0	1800	1800	0
6/27/2024 11:40	15601	NSTR_T2	3	3	0	0.97	0.47	-0.5	0	0	0	0	0	0	0	0
6/27/2024 11:40	15603	NSTR_T2	2	0	-2	0.2	0	-0.2	-0.46	-0.46	0	0	0	0	0	0
6/27/2024 11:40	60201	ATGL_T2	0	0	0	0	0	0	0.16	0.04	2	2	0	900	900	0
6/27/2024 11:41	24101	EHAZ_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
6/27/2024 11:41	61102	BERK_T5	0	0	0	0	0	0	0.96	1	1	1	0	300	300	0
6/27/2024 11:41	24105	EHAZ_T1	4	4	0	6.68	6.78	0.1	0	0	0	0	0	0	0	0
6/27/2024 11:41	24104	EHAZ_T1	3	3	0	0.27	0.23	-0.04	-2.04	-2.04	1	1	0	1200	1200	0
6/27/2024 11:42	43402	BENT_T1	13	8	-5	0.35	0.34	-0.01	-0.53	-0.52	1	1	0	900	900	0
6/27/2024 11:42	52402	GRPA_T2	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
6/27/2024 11:42	52403	GRPA_T2	4	1	-3	0.38	0	-0.38	0.08	0.01	0	0	0	0	0	0
6/27/2024 11:42	43401	BENT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 11:42	61102	BERK_T5	0	0	0	0	0	0	0.96	1	1	1	0	300	300	0
6/27/2024 11:43	43402	BENT_T1	13	8	-5	0.35	0.34	-0.01	-0.53	-0.52	1	1	0	900	900	0
6/27/2024 11:43	43401	BENT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 11:44	24105	EHAZ_T1	4	4	0	6.68	6.78	0.1	0	0	0	0	0	0	0	0
6/27/2024 11:44	24101	EHAZ_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
6/27/2024 11:44	24104	EHAZ_T1	3	3	0	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
6/27/2024 11:44	24103	EHAZ_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
6/27/2024 11:45	58003	WCAR_T1	1	3	2	1	0.87	-0.13	0	0	0	0	0	0	0	0
6/27/2024 11:45	56801	BENV_T1	2	0	-2	0.25	0	-0.25	-0.91	-0.88	2	2	0	1200	1200	0
6/27/2024 11:45	56803	BENV_T1	2	2	0	1.8	0	-1.8	0	0	0	0	0	0	0	0
6/27/2024 11:45	58001	WCAR_T1	2	3	1	0.15	0.33	0.18	0.26	0.31	0	0	0	0	0	0
6/27/2024 11:46	13502	MCMI_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/27/2024 11:46	23203	HIRU_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/27/2024 11:46	23202	HIRU_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
6/27/2024 11:46	23201	HIRU_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/27/2024 11:47	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 11:47	56803	BENV_T1	2	2	0	1.8	0	-1.8	0	0	0	0	0	0	0	0
6/27/2024 11:47	40601	PIGR_T1	5	6	1	0.44	0.45	0.01	0	0	0	0	0	0	0	0
6/27/2024 11:47	52403	GRPA_T2	1	3	2	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
6/27/2024 11:47	40603	PIGR_T1	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
6/27/2024 11:47	52404	GRPA_T2	0	0	0	0	0	0	0.31	0.41	0	0	0	0	0	0
6/27/2024 11:47	56801	BENV_T1	2	0	-2	0.25	0	-0.25	-0.46	-0.44	1	1	0	600	600	0
6/27/2024 11:47	52402	GRPA_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
6/27/2024 11:48	56801	BENV_T1	2	0	-2	0.25	0	-0.25	-1.37	-1.32	3	3	0	1800	1800	0
6/27/2024 11:48	16401	MOPO_T1	0	1	1	0	0.1	0.1	0.27	0.27	0	0	0	0	0	0
6/27/2024 11:48	56803	BENV_T1	2	2	0	1.8	0	-1.8	0	0	0	0	0	0	0	0
6/27/2024 11:49	16204	POFA_T1	6	0	-6	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/27/2024 11:49	16202	POFA_T1	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
6/27/2024 11:50	40601	PIGR_T1	5	6	1	0.44	0.45	0.01	0	0	0	0	0	0	0	0
6/27/2024 11:50	40602	PIGR_T1	0	1	1	0	0	0	-0.01	0.01	0	0	0	0	0	0
6/27/2024 11:51	16204	POFA_T1	6	0	-6	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/27/2024 11:51	16202	POFA_T1	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
6/27/2024 11:51	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 11:51	40101	HUNT_T2	15	13	-2	0.41	0.33	-0.08	-0.08	-0.1	0	0	0	0	0	0
6/27/2024 11:52	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 11:53	45303	WBER_T2	1	2	1	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
6/27/2024 11:53	16204	POFA_T1	6	0	-6	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/27/2024 11:53	16202	POFA_T1	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
6/27/2024 11:53	45301	WBER_T2	8	8	0	0.18	0.15	-0.03	-0.29	-0.29	0	0	0	0	0	0
6/27/2024 11:56	53601	DALM_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/27/2024 11:56	53602	DALM_T2	0	0	0	0	0	0	-0.45	-0.44	1	1	0	600	600	0
6/27/2024 11:58	46803	HEPB_T2	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
6/27/2024 11:58	63602	LETO_T1	0	0	0	0	0	0	-0.21	-0.16	1	1	0	600	600	0
6/27/2024 11:58	63601	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/27/2024 11:59	63601	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/27/2024 11:59	63602	LETO_T1	0	0	0	0	0	0	-0.21	-0.16	1	1	0	600	600	0
6/27/2024 12:01	45802	HEGI_T2	0	8	8	0	0.26	0.26	0.42	0.56	2	2	0	1200	1200	0
6/27/2024 12:02	64402	LAND_T2	0	0	0	0	0	0	-0.04	0.02	1	1	0	600	600	0
6/27/2024 12:03	43401	BENT_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/27/2024 12:03	43402	BENT_T1	4	2	-2	0.28	0.4	0.12	-0.52	-0.52	1	1	0	900	900	0
6/27/2024 12:04	43402	BENT_T1	4	2	-2	0.28	0.4	0.12	-0.52	-0.52	1	1	0	900	900	0
6/27/2024 12:04	53801	MBRG_T2	0	0	0	0	0	0	-1.21	-1.24	0	0	0	0	0	0
6/27/2024 12:04	43401	BENT_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/27/2024 12:11	64101	REFR_T1	0	0	0	0	0	0	0.76	0.79	0	0	0	0	0	0
6/27/2024 12:11	61103	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/27/2024 12:11	61102	BERK_T5	0	0	0	0	0	0	1.05	1.15	1	1	0	300	300	0
6/27/2024 12:12	64101	REFR_T1	0	0	0	0	0	0	0.76	0.79	0	0	0	0	0	0
6/27/2024 12:12	29402	BELT_T1	0	182	182	0	0.87	0.87	0	0	0	0	0	0	0	0
6/27/2024 12:12	44301	BEAV_T2	1	0	-1	0	0	0	0.12	0.22	2	2	0	1500	1500	0
6/27/2024 12:12	29401	BELT_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
6/27/2024 12:13	64101	REFR_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/27/2024 12:14	64101	REFR_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
6/27/2024 12:15	61103	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/27/2024 12:15	61102	BERK_T5	0	0	0	0	0	0	1.05	1.15	1	1	0	300	300	0
6/27/2024 12:16	28704	HAML_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
6/27/2024 12:16	28701	HAML_T2	2	3	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
6/27/2024 12:16	28703	HAML_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 12:17	52403	GRPA_T2	3	15	12	0.3	0.3	0	0.01	0	0	0	0	0	0	0
6/27/2024 12:19	46004	BERW_T2	1	0	-1	0.1	0	-0.1	-0.19	-0.21	0	0	0	0	0	0
6/27/2024 12:19	17001	RIRO_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
6/27/2024 12:20	56803	BENV_T1	0	1	1	0	0	0	0.47	0.48	1	1	0	600	600	0
6/27/2024 12:21	63804	HEMP_T1	1	1	0	8	7.9	-0.1	0.16	0.19	0	0	0	0	0	0
6/27/2024 12:22	65901	SAKR_T2	1	1	0	6.6	6.4	-0.2	-0.5	-0.44	2	2	0	1500	1500	0
6/27/2024 12:23	67001	STHI_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/27/2024 12:23	67002	STHI_T2	0	0	0	0	0	0	1.26	1.27	0	0	0	0	0	0
6/27/2024 12:23	43302	WATS_T2	0	0	0	0	0	0	-0.3	-0.3	3	3	0	2400	2400	0
6/27/2024 12:24	43402	BENT_T1	2	5	3	0.4	0.24	-0.16	-0.51	-0.5	1	1	0	900	900	0
6/27/2024 12:25	43402	BENT_T1	2	5	3	0.4	0.24	-0.16	-0.51	-0.5	1	1	0	900	900	0
6/27/2024 12:25	49803	UNIV_T1	0	1	1	0	0.9	0.9	-0.53	-0.52	0	0	0	0	0	0
6/27/2024 12:27	51102	CARL_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
6/27/2024 12:27	51109	CARL_T1	0	0	0	0	0	0	-0.49	-0.48	1	1	0	1200	1200	0
6/27/2024 12:27	51108	CARL_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
6/27/2024 12:27	51101	CARL_T1	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
6/27/2024 12:30	56504	ROCK_T2	4	0	-4	0.25	0	-0.25	0.27	0.3	0	0	0	0	0	0
6/27/2024 12:31	56803	BENV_T1	0	1	1	0	2.8	2.8	0.48	0.33	1	1	0	600	600	0
6/27/2024 12:31	56801	BENV_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/27/2024 12:33	55101	WERT_T1	0	0	0	0	0	0	-3.94	-4.11	8	8	0	6600	6600	0
6/27/2024 12:35	58102	NEKI_T1	2	2	0	0.8	0.9	0.1	-1.1	-1.08	1	1	0	1200	1200	0
6/27/2024 12:35	58101	NEKI_T1	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
6/27/2024 12:35	55101	WERT_T1	0	0	0	0	0	0	-3.94	-4.11	8	8	0	6600	6600	0
6/27/2024 12:36	60201	ATGL_T2	0	0	0	0	0	0	0.26	0.35	2	2	0	900	900	0
6/27/2024 12:38	64101	REFR_T1	0	1	1	0	0.5	0.5	0.4	0.42	0	0	0	0	0	0
6/27/2024 12:40	22001	BOHE_T1	1	1	0	0.3	0.3	0	0.39	0.39	0	0	0	0	0	0
6/27/2024 12:40	22003	BOHE_T1	6	6	0	0.78	0.73	-0.05	0	0	0	0	0	0	0	0
6/27/2024 12:45	43402	BENT_T1	5	9	4	0.24	0.38	0.14	-0.5	-0.49	1	1	0	900	900	0
6/27/2024 12:46	43402	BENT_T1	5	9	4	0.24	0.38	0.14	-0.5	-0.49	1	1	0	900	900	0
6/27/2024 13:00	56503	ROCK_T2	0	0	0	0	0	0	-0.62	-0.63	1	1	0	1200	1200	0
6/27/2024 13:00	56504	ROCK_T2	0	4	4	0	0	0	0.32	0.35	0	0	0	0	0	0
6/27/2024 13:00	56501	ROCK_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/27/2024 13:02	56501	ROCK_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/27/2024 13:02	56504	ROCK_T2	0	4	4	0	0	0	0.65	0.69	0	0	0	0	0	0
6/27/2024 13:03	56504	ROCK_T2	0	4	4	0	0	0	0.32	0.35	0	0	0	0	0	0
6/27/2024 13:03	56501	ROCK_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/27/2024 13:04	56504	ROCK_T2	0	4	4	0	0	0	0.32	0.35	0	0	0	0	0	0
6/27/2024 13:04	56501	ROCK_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/27/2024 13:05	56504	ROCK_T2	0	4	4	0	0	0	0.32	0.35	0	0	0	0	0	0
6/27/2024 13:05	56501	ROCK_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/27/2024 13:36	24204	PROV_T3	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
6/27/2024 13:36	24201	PROV_T3	2	1	-1	3.95	7.6	3.65	-0.9	-0.89	1	1	0	1200	1200	0
6/27/2024 13:48	20403	ASHF_T2	3	7	4	0.43	0.41	-0.02	0	0	0	0	0	0	0	0
6/27/2024 13:48	20401	ASHF_T2	4	4	0	0.9	0.8	-0.1	0.51	0.5	0	0	0	0	0	0
6/27/2024 13:49	56504	ROCK_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 13:49	56501	ROCK_T2	2	3	1	0.55	0.5	-0.05	-1.71	-1.75	0	0	0	0	0	0
6/27/2024 13:53	43301	WATS_T2	1	2	1	0.1	0.5	0.4	-0.19	-0.19	1	1	0	900	900	0
6/27/2024 13:55	22404	MORG_T2	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
6/27/2024 13:56	56803	BENV_T1	3	7	4	1.47	0.43	-1.04	0	0	0	0	0	0	0	0
6/27/2024 13:56	46005	BERW_T1	3	1	-2	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
6/27/2024 13:56	46001	BERW_T1	24	5	-19	0.43	0.58	0.15	-0.23	-0.24	0	0	0	0	0	0
6/27/2024 13:56	56801	BENV_T1	2	2	0	0.2	0.35	0.15	-0.29	-0.27	1	1	0	600	600	0
6/27/2024 13:58	46001	BERW_T1	24	5	-19	0.43	0.58	0.15	-0.23	-0.24	0	0	0	0	0	0
6/27/2024 13:58	46005	BERW_T1	3	1	-2	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
6/27/2024 14:06	56803	BENV_T1	6	7	1	0.83	0.86	0.03	0	0	0	0	0	0	0	0
6/27/2024 14:06	56801	BENV_T1	1	2	1	0.4	0.45	0.05	-0.29	-0.27	1	1	0	600	600	0
6/27/2024 14:20	56803	BENV_T1	7	7	0	0.89	0.98	0.09	0	0	0	0	0	0	0	0
6/27/2024 14:20	56801	BENV_T1	2	2	0	0.35	0.45	0.1	-0.27	-0.25	1	1	0	600	600	0
6/27/2024 14:32	56501	ROCK_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
6/27/2024 14:32	56504	ROCK_T2	7	6	-1	0.31	0	-0.31	0.41	0.42	0	0	0	0	0	0
6/27/2024 14:35	56802	BENV_T2	0	48	48	0	0	0	-0.68	-0.68	0	0	0	0	0	0
6/27/2024 14:36	56504	ROCK_T2	7	6	-1	0.31	0	-0.31	0	0	0	0	0	0	0	0
6/27/2024 14:36	56501	ROCK_T2	1	1	0	0.1	0.6	0.5	-1.73	-1.71	0	0	0	0	0	0
6/27/2024 14:42	51804	EBEN_T2	0	0	0	0	0	0	-0.7	-0.87	1	1	0	900	900	0
6/27/2024 14:42	51802	EBEN_T2	5	3	-2	0.4	0.67	0.27	0	0	0	0	0	0	0	0
6/27/2024 14:44	51802	EBEN_T2	5	3	-2	0.4	0.67	0.27	0	0	0	0	0	0	0	0
6/27/2024 14:44	51804	EBEN_T2	0	0	0	0	0	0	-0.7	-0.87	1	1	0	900	900	0
6/27/2024 14:51	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/27/2024 14:51	43304	WATS_T2	0	0	0	0	0	0	-0.22	-0.4	0	0	0	0	0	0
6/27/2024 14:53	43304	WATS_T2	0	0	0	0	0	0	-0.07	-0.13	0	0	0	0	0	0
6/27/2024 14:53	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/27/2024 14:54	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/27/2024 14:54	43304	WATS_T2	0	0	0	0	0	0	-0.07	-0.13	0	0	0	0	0	0
6/27/2024 15:06	43301	WATS_T2	0	1	1	0	0.1	0.1	-0.17	-0.17	1	1	0	900	900	0
6/27/2024 15:19	56802	BENV_T2	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
6/27/2024 15:20	56501	ROCK_T2	0	0	0	0	0	0	-1.69	-1.68	0	0	0	0	0	0
6/27/2024 15:20	56504	ROCK_T2	9	7	-2	1.81	2.25	0.44	0	0	0	0	0	0	0	0
6/27/2024 15:26	46005	BERW_T1	1	0	-1	0.3	0	-0.3	-0.02	-0.04	1	1	0	900	900	0
6/27/2024 15:26	46001	BERW_T1	6	2	-4	0.38	0.5	0.12	0	0	0	0	0	0	0	0
6/27/2024 15:29	48902	FOSP_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
6/27/2024 15:30	48902	FOSP_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
6/27/2024 15:33	56802	BENV_T2	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
6/27/2024 15:39	56504	ROCK_T2	6	14	8	2.47	2.07	-0.4	0.47	0.48	0	0	0	0	0	0
6/27/2024 15:47	56801	BENV_T1	1	3	2	0.1	0.33	0.23	-0.2	-0.2	1	1	0	600	600	0
6/27/2024 15:47	56803	BENV_T1	6	8	2	1.98	1.67	-0.31	0	0	0	0	0	0	0	0
6/27/2024 16:02	51802	EBEN_T2	3	2	-1	0.33	0.4	0.07	0.27	0.23	1	1	0	900	900	0
6/27/2024 16:05	52004	LING_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
6/27/2024 16:09	52001	LING_T1	0	0	0	0	0	0	0.87	0.86	0	0	0	0	0	0
6/27/2024 16:25	56802	BENV_T2	1	2	1	0.7	0.3	-0.4	-0.87	-0.87	0	0	0	0	0	0
6/27/2024 16:34	52004	LING_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
6/27/2024 16:55	56801	BENV_T1	1	1	0	0.1	0.5	0.4	-0.47	-0.45	3	3	0	1800	1800	0
6/27/2024 16:55	56803	BENV_T1	12	9	-3	1.56	1.26	-0.3	0	0	0	0	0	0	0	0
6/27/2024 16:57	56801	BENV_T1	1	1	0	0.1	0.5	0.4	-0.16	-0.15	1	1	0	600	600	0
6/27/2024 16:57	56803	BENV_T1	12	9	-3	1.56	1.26	-0.3	0	0	0	0	0	0	0	0
6/27/2024 16:58	56801	BENV_T1	1	1	0	0.1	0.5	0.4	-0.32	-0.3	2	2	0	1200	1200	0
6/27/2024 16:58	56803	BENV_T1	12	9	-3	1.56	1.26	-0.3	0	0	0	0	0	0	0	0
6/27/2024 17:18	57403	SPAN_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/27/2024 17:18	57401	SPAN_T1	8	0	-8	0.43	0	-0.43	-0.46	-1.55	2	2	0	1200	1200	0
6/27/2024 17:19	57403	SPAN_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/27/2024 17:19	57401	SPAN_T1	8	0	-8	0.43	0	-0.43	-0.69	-2.33	3	3	0	1800	1800	0
6/27/2024 17:20	57403	SPAN_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/27/2024 17:20	57401	SPAN_T1	8	0	-8	0.43	0	-0.43	-0.23	-0.78	1	1	0	600	600	0
6/27/2024 17:22	57403	SPAN_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/27/2024 17:22	57401	SPAN_T1	8	0	-8	0.43	0	-0.43	-0.78	-0.71	1	1	0	600	600	0
6/27/2024 17:23	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 17:23	52404	GRPA_T2	0	1	1	0	0	0	-1.38	0.43	0	0	0	0	0	0
6/27/2024 17:23	52402	GRPA_T2	90	95	5	0.81	0.83	0.02	0	0	0	0	0	0	0	0
6/27/2024 17:23	52403	GRPA_T2	59	86	27	1.37	1.79	0.42	0	0	0	0	0	0	0	0
6/27/2024 17:31	52401	GRPA_T2	2	27	25	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/27/2024 17:31	52404	GRPA_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/27/2024 17:31	52403	GRPA_T2	72	92	20	1.76	1.89	0.13	0.28	0.28	0	0	0	0	0	0
6/27/2024 17:31	52402	GRPA_T2	89	93	4	0.85	0.62	-0.23	0	0	0	0	0	0	0	0
6/27/2024 17:32	52404	GRPA_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/27/2024 17:32	52402	GRPA_T2	89	93	4	0.85	0.62	-0.23	0	0	0	0	0	0	0	0
6/27/2024 17:32	52401	GRPA_T2	2	27	25	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/27/2024 17:32	52403	GRPA_T2	72	92	20	1.76	1.89	0.13	0.28	0.28	0	0	0	0	0	0
6/27/2024 17:34	52401	GRPA_T2	2	27	25	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/27/2024 17:34	52404	GRPA_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/27/2024 17:34	52403	GRPA_T2	72	92	20	1.76	1.89	0.13	0.28	0.28	0	0	0	0	0	0
6/27/2024 17:34	52402	GRPA_T2	89	93	4	0.85	0.62	-0.23	0	0	0	0	0	0	0	0
6/27/2024 17:40	20801	LOPO_T1	320	8	-312	1.85	0	-1.85	0	0	0	0	0	0	0	0
6/27/2024 17:46	51802	EBEN_T2	10	7	-3	0.47	0.5	0.03	0.13	0.13	1	1	0	900	900	0
6/27/2024 17:47	52403	GRPA_T2	84	91	7	1.9	1.78	-0.12	0.28	0.25	0	0	0	0	0	0
6/27/2024 17:47	52402	GRPA_T2	94	82	-12	1.04	0.59	-0.45	0	0	0	0	0	0	0	0
6/27/2024 17:47	52404	GRPA_T2	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/27/2024 17:47	52401	GRPA_T2	0	28	28	0	0.4	0.4	0	0	0	0	0	0	0	0
6/27/2024 18:03	52404	GRPA_T2	1	3	2	0.9	0.45	-0.45	0	0	0	0	0	0	0	0
6/27/2024 18:03	52403	GRPA_T2	91	75	-16	1.98	1.54	-0.44	0.25	0.09	0	0	0	0	0	0
6/27/2024 18:03	52401	GRPA_T2	27	3	-24	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
6/27/2024 18:03	52402	GRPA_T2	76	70	-6	0.63	0.65	0.02	0	0	0	0	0	0	0	0
6/27/2024 18:09	13904	SEID_T1	3	36	33	0.33	0.57	0.24	0	0	0	0	0	0	0	0
6/27/2024 18:09	13902	SEID_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/27/2024 18:09	13903	SEID_T1	23	24	1	1.04	0.97	-0.07	0	0	0	0	0	0	0	0
6/27/2024 18:27	46004	BERW_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
6/27/2024 18:30	44902	SCOT_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
6/27/2024 18:30	29402	BELT_T1	208	38	-170	1.06	0.51	-0.55	0	0	0	0	0	0	0	0
6/27/2024 18:43	47401	PENS_T1	2	41	39	1.45	0.52	-0.93	1.05	-0.55	0	0	0	0	0	0
6/27/2024 18:45	47401	PENS_T1	7	35	28	0.66	0.5	-0.16	1.05	-0.55	0	0	0	0	0	0
6/27/2024 18:53	52402	GRPA_T2	30	40	10	0.84	0.54	-0.3	-0.44	-0.45	0	0	0	0	0	0
6/27/2024 18:53	52401	GRPA_T2	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/27/2024 18:53	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/27/2024 18:53	52403	GRPA_T2	67	31	-36	1.52	0.78	-0.74	0	0	0	0	0	0	0	0
6/27/2024 18:56	47401	PENS_T1	7	35	28	0.66	0.5	-0.16	-0.55	-0.57	0	0	0	0	0	0
6/27/2024 19:06	44601	SALE_T2	1	1	0	0.9	1	0.1	0.03	0.02	0	0	0	0	0	0
6/27/2024 19:08	44601	SALE_T2	1	1	0	0.9	1	0.1	0.03	0.02	0	0	0	0	0	0
6/27/2024 19:11	46004	BERW_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
6/27/2024 19:14	20801	LOPO_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/27/2024 19:14	20802	LOPO_T1	0	0	0	0	0	0	-0.19	-0.2	1	1	0	600	600	0
6/27/2024 20:05	15702	TANN_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
6/27/2024 20:05	56503	ROCK_T2	2	30	28	0.15	0.19	0.04	0	0	0	0	0	0	0	0
6/27/2024 20:05	56501	ROCK_T2	10	117	107	0.27	0.22	-0.05	-1.63	-1.66	0	0	0	0	0	0
6/27/2024 20:05	15703	TANN_T2	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
6/27/2024 20:05	56504	ROCK_T2	4	0	-4	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/27/2024 20:07	13503	MCMI_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
6/27/2024 20:08	65702	RVIL_T2	0	0	0	0	0	0	-0.67	-0.71	1	1	0	600	600	0
6/27/2024 20:08	15702	TANN_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
6/27/2024 20:08	15703	TANN_T2	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/27/2024 20:09	15702	TANN_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
6/27/2024 20:09	15703	TANN_T2	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
6/27/2024 20:14	56504	ROCK_T2	4	0	-4	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/27/2024 20:14	56503	ROCK_T2	2	30	28	0.15	0.19	0.04	0	0	0	0	0	0	0	0
6/27/2024 20:14	56501	ROCK_T2	10	117	107	0.27	0.22	-0.05	-1.66	-1.7	0	0	0	0	0	0
6/27/2024 20:20	63401	HONY_T1	0	0	0	0	0	0	0.3	0.4	1	1	0	600	600	0
6/27/2024 20:22	63401	HONY_T1	0	0	0	0	0	0	0.8	0.93	2	2	0	1200	1200	0
6/27/2024 20:22	23403	HONE_T1	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
6/27/2024 20:24	67605	WARW_T1	0	0	0	0	0	0	-2.02	-0.89	0	0	0	0	0	0
6/27/2024 20:24	67605	WARW_T1	0	0	0	0	0	0	-2.02	-1.78	0	0	0	0	0	0
6/27/2024 20:24	67605	WARW_T1	0	0	0	0	0	0	-1.01	-0.89	0	0	0	0	0	0
6/27/2024 20:24	67605	WARW_T1	0	0	0	0	0	0	-1.01	-1.78	0	0	0	0	0	0
6/27/2024 20:26	67604	WARW_T1	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
6/27/2024 20:26	67605	WARW_T1	0	0	0	0	0	0	-1.01	-0.89	0	0	0	0	0	0
6/27/2024 20:28	67605	WARW_T1	0	0	0	0	0	0	-1.01	-0.89	0	0	0	0	0	0
6/27/2024 20:28	56501	ROCK_T2	81	110	29	0.21	0.22	0.01	-1.7	-1.73	0	0	0	0	0	0
6/27/2024 20:28	56503	ROCK_T2	20	29	9	0.18	0.19	0.01	0	0	0	0	0	0	0	0
6/27/2024 20:28	56504	ROCK_T2	1	0	-1	3.9	0	-3.9	0	0	0	0	0	0	0	0
6/27/2024 20:30	67603	WARW_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
6/27/2024 20:30	67605	WARW_T1	0	0	0	0	0	0	-1.01	-0.89	0	0	0	0	0	0
6/27/2024 20:35	16302	ALPA_T2	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
6/27/2024 20:36	16302	ALPA_T2	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
6/27/2024 20:37	57303	MOAL_T2	1	1	0	7.5	7.3	-0.2	0	0	0	0	0	0	0	0
6/27/2024 20:37	57304	MOAL_T2	4	3	-1	0.23	0.1	-0.13	-0.43	0.17	0	0	0	0	0	0
6/27/2024 20:39	44801	EDAN_T2	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
6/27/2024 20:39	44802	EDAN_T2	0	0	0	0	0	0	-1.86	-1.88	1	1	0	1200	1200	0
6/27/2024 20:40	40502	CRES_T2	229	136	-93	1.05	1.05	0	1.18	1.03	0	0	0	0	0	0
6/27/2024 20:40	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 20:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 20:41	40502	CRES_T2	229	136	-93	1.05	1.05	0	0.39	0.34	0	0	0	0	0	0
6/27/2024 20:42	40502	CRES_T2	229	136	-93	1.05	1.05	0	1.96	1.72	0	0	0	0	0	0
6/27/2024 20:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 20:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 20:43	60801	BUCK_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
6/27/2024 20:43	40502	CRES_T2	229	136	-93	1.05	1.05	0	1.96	1.72	0	0	0	0	0	0
6/27/2024 20:44	40502	CRES_T2	229	136	-93	1.05	1.05	0	1.18	1.03	0	0	0	0	0	0
6/27/2024 20:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 20:45	25501	MADI_T1	2	2	0	1.9	3.1	1.2	0	0	0	0	0	0	0	0
6/27/2024 20:45	25503	MADI_T1	1	1	0	0.1	0.1	0	-0.77	-0.78	0	0	0	0	0	0
6/27/2024 20:46	22602	KIMB_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/27/2024 20:48	53601	DALM_T2	1	1	0	0.7	0.8	0.1	0.03	0.03	0	0	0	0	0	0
6/27/2024 20:49	40901	JESH_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/27/2024 20:49	40902	JESH_T1	0	0	0	0	0	0	-2.46	-2.54	2	2	0	1200	1200	0
6/27/2024 20:52	67203	TEHI_T1	1	0	-1	0.2	0	-0.2	2.09	2.05	3	3	0	2100	2100	0
6/27/2024 20:52	65802	RTWN_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
6/27/2024 21:04	12301	LANA_T2	0	0	0	0	0	0	-0.94	-0.97	0	0	0	0	0	0
6/27/2024 21:06	65205	PRIN_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
6/27/2024 21:19	12807	MICK_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/27/2024 21:19	42903	MIDD_T2	2	2	0	0.2	0.7	0.5	-1.13	-1.26	1	1	0	1200	1200	0
6/27/2024 21:19	12801	MICK_T1	0	0	0	0	0	0	-0.75	-0.77	1	1	0	600	600	0
6/27/2024 21:19	66504	SMAN_T2	0	0	0	0	0	0	-0.74	-0.79	1	1	0	1200	1200	0
6/27/2024 21:22	20402	ASHF_T2	6	4	-2	0.77	0.2	-0.57	0	0	0	0	0	0	0	0
6/27/2024 21:22	20403	ASHF_T2	0	0	0	0	0	0	0.6	0.53	0	0	0	0	0	0
6/27/2024 21:22	20401	ASHF_T2	4	6	2	0.4	0.48	0.08	0	0	0	0	0	0	0	0
6/27/2024 21:23	20403	ASHF_T2	0	0	0	0	0	0	0.6	0.53	0	0	0	0	0	0
6/27/2024 21:23	20402	ASHF_T2	6	4	-2	0.77	0.2	-0.57	0	0	0	0	0	0	0	0
6/27/2024 21:23	20401	ASHF_T2	4	6	2	0.4	0.48	0.08	0	0	0	0	0	0	0	0
6/27/2024 21:24	14601	SWHI_T1	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
6/27/2024 21:27	20402	ASHF_T2	6	4	-2	0.77	0.2	-0.57	0	0	0	0	0	0	0	0
6/27/2024 21:27	20401	ASHF_T2	4	6	2	0.4	0.48	0.08	0.04	0	0	0	0	0	0	0
6/27/2024 21:27	20403	ASHF_T2	0	0	0	0	0	0	0.6	0.53	0	0	0	0	0	0
6/27/2024 21:28	15204	SFAR_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/27/2024 21:28	15203	SFAR_T2	4	3	-1	1.15	0	-1.15	-1.24	-1.17	0	0	0	0	0	0
6/27/2024 21:29	15204	SFAR_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/27/2024 21:29	15203	SFAR_T2	4	3	-1	1.15	0	-1.15	-0.62	-0.58	0	0	0	0	0	0
6/27/2024 21:30	15204	SFAR_T2	1	0	-1	0.1	0	-0.1	0.27	0.25	0	0	0	0	0	0
6/27/2024 21:30	15203	SFAR_T2	3	0	-3	0.63	0	-0.63	-0.62	-0.58	0	0	0	0	0	0
6/27/2024 21:31	15204	SFAR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/27/2024 21:31	15203	SFAR_T2	3	0	-3	0.63	0	-0.63	-0.62	-0.58	0	0	0	0	0	0
6/27/2024 21:32	15203	SFAR_T2	3	0	-3	0.63	0	-0.63	0	0	0	0	0	0	0	0
6/27/2024 21:32	15204	SFAR_T2	1	0	-1	0.1	0	-0.1	0.27	0.25	0	0	0	0	0	0
6/27/2024 21:36	45802	HEGI_T2	11	26	15	0.54	0.51	-0.03	0.71	0.71	0	0	0	0	0	0
6/27/2024 21:38	52501	PROG_T1	0	0	0	0	0	0	0.36	0.32	1	1	0	300	300	0
6/27/2024 21:40	61102	BERK_T5	0	0	0	0	0	0	-0.05	0.08	2	2	0	600	600	0
6/27/2024 21:41	67805	WLAN_T1	0	26	26	0	0.11	0.11	0	0	0	0	0	0	0	0
6/27/2024 21:41	67801	WLAN_T1	0	0	0	0	0	0	0.11	0.05	0	0	0	0	0	0
6/27/2024 21:43	61301	EARL_T1	0	0	0	0	0	0	-1.32	-1.33	2	2	0	1800	1800	0
6/27/2024 21:43	61102	BERK_T5	0	0	0	0	0	0	-0.08	0.12	3	3	0	900	900	0
6/27/2024 21:44	61102	BERK_T5	0	0	0	0	0	0	-0.03	0.04	1	1	0	300	300	0
6/27/2024 21:44	61301	EARL_T1	0	0	0	0	0	0	-1.32	-1.33	2	2	0	1800	1800	0
6/27/2024 21:45	17401	FOHI_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
6/27/2024 21:47	61102	BERK_T5	0	0	0	0	0	0	-0.03	0.04	1	1	0	300	300	0
6/27/2024 21:49	40601	PIGR_T1	244	17	-227	0.34	0.19	-0.15	0.11	0.07	0	0	0	0	0	0
6/27/2024 21:49	40602	PIGR_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/27/2024 21:50	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/27/2024 21:50	40602	PIGR_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/27/2024 21:50	23202	HIRU_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
6/27/2024 21:50	40601	PIGR_T1	244	17	-227	0.34	0.19	-0.15	0.05	0.03	0	0	0	0	0	0
6/27/2024 21:51	40601	PIGR_T1	244	17	-227	0.34	0.19	-0.15	0	0	0	0	0	0	0	0
6/27/2024 21:51	40602	PIGR_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/27/2024 21:51	40603	PIGR_T1	0	0	0	0	0	0	0.65	0.6	0	0	0	0	0	0
6/27/2024 21:52	16401	MOPO_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
6/27/2024 21:55	15803	WGAT_T1	223	225	2	0.56	0.55	-0.01	1.56	1.37	0	0	0	0	0	0
6/27/2024 21:55	15801	WGAT_T1	571	559	-12	1.26	0.73	-0.53	0	0	0	0	0	0	0	0
6/27/2024 21:59	46801	HEPB_T2	2	6	4	0.5	0.45	-0.05	0.77	0.75	0	0	0	0	0	0
6/27/2024 21:59	53601	DALM_T2	1	1	0	0.4	0.5	0.1	0.2	0.67	0	0	0	0	0	0
6/27/2024 21:59	46803	HEPB_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
6/27/2024 22:00	46801	HEPB_T2	3	6	3	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
6/27/2024 22:00	46803	HEPB_T2	1	4	3	0.1	0.13	0.03	0.65	0.62	0	0	0	0	0	0
6/27/2024 22:01	63602	LETO_T1	0	0	0	0	0	0	-0.37	-0.44	1	1	0	600	600	0
6/27/2024 22:02	64201	KINZ_T1	7	25	18	0.36	0.32	-0.04	-0.49	-0.43	3	3	0	1500	1500	0
6/27/2024 22:02	64202	KINZ_T1	2	10	8	0.15	0.21	0.06	0	0	0	0	0	0	0	0
6/27/2024 22:02	63602	LETO_T1	0	0	0	0	0	0	-0.37	-0.44	1	1	0	600	600	0
6/27/2024 22:02	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.56	-0.59	0	0	0	0	0	0
6/27/2024 22:02	64204	KINZ_T1	4	17	13	0.5	0.31	-0.19	0	0	0	0	0	0	0	0
6/27/2024 22:02	64203	KINZ_T1	0	13	13	0	0.13	0.13	0	0	0	0	0	0	0	0
6/27/2024 22:03	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.56	-0.59	0	0	0	0	0	0
6/27/2024 22:04	65003	NEFF_T2	4	0	-4	0.18	0	-0.18	0	0	0	0	0	0	0	0
6/27/2024 22:04	65001	NEFF_T2	0	0	0	0	0	0	-0.36	-0.46	1	1	0	1200	1200	0
6/27/2024 22:05	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.56	-0.59	0	0	0	0	0	0
6/27/2024 22:06	60501	NMAN_T2	3	3	0	4.37	3.73	-0.64	0	0	0	0	0	0	0	0
6/27/2024 22:06	60502	NMAN_T2	0	0	0	0	0	0	0.16	0	0	0	0	0	0	0
6/27/2024 22:07	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.59	-0.61	0	0	0	0	0	0
6/27/2024 22:12	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 22:12	16204	POFA_T1	109	179	70	0.12	0.14	0.02	0	0	0	0	0	0	0	0
6/27/2024 22:12	41902	REED_T1	0	0	0	0	0	0	1.19	1.15	0	0	0	0	0	0
6/27/2024 22:12	41901	REED_T1	8	0	-8	0.49	0	-0.49	0	0	0	0	0	0	0	0
6/27/2024 22:12	16202	POFA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/27/2024 22:14	16202	POFA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/27/2024 22:14	16204	POFA_T1	109	179	70	0.12	0.14	0.02	0	0	0	0	0	0	0	0
6/27/2024 22:15	15603	NSTR_T2	2	0	-2	0.1	0	-0.1	-0.47	-0.48	0	0	0	0	0	0
6/27/2024 22:15	15601	NSTR_T2	4	3	-1	0.95	0.93	-0.02	0	0	0	0	0	0	0	0
6/27/2024 22:15	24103	EHAZ_T1	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
6/27/2024 22:15	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 22:15	24105	EHAZ_T1	4	4	0	6.58	6.45	-0.13	0	0	0	0	0	0	0	0
6/27/2024 22:16	41902	REED_T1	0	0	0	0	0	0	1.19	1.15	0	0	0	0	0	0
6/27/2024 22:16	24104	EHAZ_T1	0	0	0	0	0	0	-0.81	-0.82	1	1	0	1200	1200	0
6/27/2024 22:16	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 22:16	64101	REFR_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
6/27/2024 22:16	24105	EHAZ_T1	4	4	0	6.58	6.45	-0.13	0	0	0	0	0	0	0	0
6/27/2024 22:16	61102	BERK_T5	0	0	0	0	0	0	-0.16	-0.23	1	1	0	300	300	0
6/27/2024 22:16	16204	POFA_T1	144	109	-35	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
6/27/2024 22:17	25402	LAHA_T2	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
6/27/2024 22:18	61102	BERK_T5	0	0	0	0	0	0	-0.16	-0.23	1	1	0	300	300	0
6/27/2024 22:20	13502	MCMI_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
6/27/2024 22:21	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 22:21	56802	BENV_T2	0	0	0	0	0	0	-0.32	-0.35	0	0	0	0	0	0
6/27/2024 22:21	16406	MOPO_T1	0	0	0	0	0	0	1.15	1.12	0	0	0	0	0	0
6/27/2024 22:22	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/27/2024 22:23	55003	NEWP_T2	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
6/27/2024 22:23	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 22:24	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/27/2024 22:25	60803	BUCK_T1	11	12	1	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
6/27/2024 22:25	65901	SAKR_T2	1	1	0	7.2	7.4	0.2	-1.12	-1.24	2	2	0	1500	1500	0
6/27/2024 22:25	60801	BUCK_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
6/27/2024 22:26	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 22:27	67002	STHI_T2	0	0	0	0	0	0	1.11	1.07	0	0	0	0	0	0
6/27/2024 22:27	63304	GREE_T1	0	0	0	0	0	0	-1.21	-1.25	0	0	0	0	0	0
6/27/2024 22:27	63305	GREE_T1	16	15	-1	0.35	0.24	-0.11	0	0	0	0	0	0	0	0
6/27/2024 22:28	63304	GREE_T1	0	0	0	0	0	0	-1.21	-1.25	0	0	0	0	0	0
6/27/2024 22:28	63305	GREE_T1	16	15	-1	0.35	0.24	-0.11	0	0	0	0	0	0	0	0
6/27/2024 22:29	21203	ECAR_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
6/27/2024 22:30	43402	BENT_T1	3	3	0	0.17	0.33	0.16	0.06	0.06	0	0	0	0	0	0
6/27/2024 22:30	28703	HAML_T2	2	3	1	0.35	0.77	0.42	0	0	0	0	0	0	0	0
6/27/2024 22:30	28701	HAML_T2	4	9	5	0.1	0.11	0.01	0	0	0	0	0	0	0	0
6/27/2024 22:30	28704	HAML_T2	3	7	4	0.43	0.31	-0.12	0	0	0	0	0	0	0	0
6/27/2024 22:31	51109	CARL_T1	0	0	0	0	0	0	-0.57	-0.59	1	1	0	1200	1200	0
6/27/2024 22:31	43402	BENT_T1	3	3	0	0.17	0.33	0.16	0.06	0.06	0	0	0	0	0	0
6/27/2024 22:31	51101	CARL_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
6/27/2024 22:31	51102	CARL_T1	43	80	37	0.2	0.25	0.05	0	0	0	0	0	0	0	0
6/27/2024 22:31	51108	CARL_T1	2	13	11	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
6/27/2024 22:33	43402	BENT_T1	3	3	0	0.17	0.33	0.16	0.06	0.06	0	0	0	0	0	0
6/27/2024 22:33	17002	RIRO_T2	1	1	0	1.2	2	0.8	0.61	0.5	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/27/2024 22:33	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/27/2024 22:35	66502	SMAN_T2	0	0	0	0	0	0	0.18	-0.91	0	1	1	0	900	900
6/27/2024 22:35	64101	REFR_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
6/27/2024 22:36	13303	ORVI_T1	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
6/27/2024 22:36	64101	REFR_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
6/27/2024 22:37	15801	WGAT_T1	272	280	8	0.44	0.54	0.1	0	0	0	0	0	0	0	0
6/27/2024 22:37	15803	WGAT_T1	83	104	21	0.31	0.34	0.03	1.33	1.24	0	0	0	0	0	0
6/27/2024 22:37	55101	WERT_T1	0	0	0	0	0	0	-3.9	-3.93	6	6	0	4800	4800	0
6/27/2024 22:37	60201	ATGL_T2	0	0	0	0	0	0	0.53	0.44	1	1	0	300	300	0
6/27/2024 22:38	64101	REFR_T1	0	0	0	0	0	0	0.84	0.79	0	0	0	0	0	0
6/27/2024 22:38	44301	BEAV_T2	1	1	0	1.3	0.1	-1.2	0.81	0.82	1	1	0	600	600	0
6/27/2024 22:38	60201	ATGL_T2	0	0	0	0	0	0	1.6	1.33	3	3	0	900	900	0
6/27/2024 22:39	57403	SPAN_T1	9	17	8	0.13	0.25	0.12	0	0	0	0	0	0	0	0
6/27/2024 22:39	52004	LING_T2	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
6/27/2024 22:39	22003	BOHE_T1	189	136	-53	0.25	0.17	-0.08	0	0	0	0	0	0	0	0
6/27/2024 22:39	22001	BOHE_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/27/2024 22:39	57401	SPAN_T1	0	0	0	0	0	0	-0.75	-0.79	1	1	0	600	600	0
6/27/2024 22:39	56504	ROCK_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
6/27/2024 22:39	55101	WERT_T1	0	0	0	0	0	0	-3.9	-3.93	6	6	0	4800	4800	0
6/27/2024 22:39	51804	EBEN_T2	3	2	-1	0.17	0.15	-0.02	-0.1	-0.24	0	0	0	0	0	0
6/27/2024 22:39	58102	NEKI_T1	1	2	1	0.8	0.8	0	-0.52	-0.51	0	0	0	0	0	0
6/27/2024 22:40	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/27/2024 22:40	57401	SPAN_T1	0	0	0	0	0	0	-0.75	-0.79	1	1	0	600	600	0
6/27/2024 22:40	51804	EBEN_T2	3	2	-1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
6/27/2024 22:40	40302	TAMA_T3	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
6/27/2024 22:40	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 22:40	51802	EBEN_T2	0	0	0	0	0	0	-0.55	-0.67	1	1	0	900	900	0
6/27/2024 22:40	57403	SPAN_T1	9	17	8	0.13	0.25	0.12	0	0	0	0	0	0	0	0
6/27/2024 22:41	56801	BENV_T1	5	5	0	0.98	1.5	0.52	-0.44	-0.47	1	1	0	600	600	0
6/27/2024 22:41	56501	ROCK_T2	0	0	0	0	0	0	-0.78	-0.81	0	0	0	0	0	0
6/27/2024 22:41	52402	GRPA_T2	2	2	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
6/27/2024 22:41	46002	BERW_T2	7	5	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
6/27/2024 22:41	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/27/2024 22:41	57401	SPAN_T1	0	0	0	0	0	0	-0.75	-0.79	1	1	0	600	600	0
6/27/2024 22:41	46004	BERW_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
6/27/2024 22:41	46003	BERW_T2	4	3	-1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
6/27/2024 22:41	56803	BENV_T1	3	0	-3	1.07	0	-1.07	0	0	0	0	0	0	0	0
6/27/2024 22:41	57403	SPAN_T1	9	17	8	0.13	0.25	0.12	0	0	0	0	0	0	0	0
6/27/2024 22:41	44301	BEAV_T2	1	1	0	1.3	0.1	-1.2	1.62	1.64	2	2	0	1200	1200	0
6/27/2024 22:41	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/27/2024 22:41	52403	GRPA_T2	4	3	-1	0.53	0	-0.53	0.36	0.34	0	0	0	0	0	0
6/27/2024 22:42	44301	BEAV_T2	1	1	0	1.3	0.1	-1.2	0.81	0.82	1	1	0	600	600	0
6/27/2024 22:42	52004	LING_T2	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
6/27/2024 22:42	56803	BENV_T1	3	0	-3	1.07	0	-1.07	0	0	0	0	0	0	0	0
6/27/2024 22:42	56801	BENV_T1	5	5	0	0.98	1.5	0.52	-0.44	-0.47	1	1	0	600	600	0
6/27/2024 22:42	56504	ROCK_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
6/27/2024 22:42	29402	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 22:43	57401	SPAN_T1	0	0	0	0	0	0	-0.75	-0.79	1	1	0	600	600	0
6/27/2024 22:43	58003	WCAR_T1	1	1	0	0.8	1.3	0.5	0.94	0.91	0	0	0	0	0	0
6/27/2024 22:43	15801	WGAT_T1	272	280	8	0.44	0.54	0.1	0	0	0	0	0	0	0	0
6/27/2024 22:43	56504	ROCK_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
6/27/2024 22:43	52402	GRPA_T2	2	2	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
6/27/2024 22:43	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/27/2024 22:43	58001	WCAR_T1	3	4	1	0.27	0.43	0.16	0	0	0	0	0	0	0	0
6/27/2024 22:43	52002	LING_T2	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
6/27/2024 22:43	52404	GRPA_T2	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
6/27/2024 22:43	56801	BENV_T1	5	5	0	0.98	1.5	0.52	-0.44	-0.47	1	1	0	600	600	0
6/27/2024 22:43	57403	SPAN_T1	9	17	8	0.13	0.25	0.12	0	0	0	0	0	0	0	0
6/27/2024 22:43	15803	WGAT_T1	83	104	21	0.31	0.34	0.03	1.33	1.24	0	0	0	0	0	0
6/27/2024 22:43	52403	GRPA_T2	4	3	-1	0.53	0	-0.53	0	0	0	0	0	0	0	0
6/27/2024 22:43	56803	BENV_T1	3	0	-3	1.07	0	-1.07	0	0	0	0	0	0	0	0
6/27/2024 22:44	46003	BERW_T2	4	3	-1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
6/27/2024 22:44	46002	BERW_T2	7	5	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
6/27/2024 22:44	13904	SEID_T1	0	9	9	0	0	0	0	0	0	0	0	0	0	0
6/27/2024 22:44	58003	WCAR_T1	1	1	0	0.8	1.3	0.5	0.94	0.91	0	0	0	0	0	0
6/27/2024 22:44	20802	LOPO_T1	0	0	0	0	0	0	-0.51	-0.52	1	1	0	600	600	0
6/27/2024 22:44	43302	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/27/2024 22:44	58001	WCAR_T1	3	4	1	0.27	0.43	0.16	0	0	0	0	0	0	0	0
6/27/2024 22:44	43301	WATS_T2	1	1	0	0.4	0.8	0.4	-0.54	-0.55	1	1	0	900	900	0
6/27/2024 22:44	46004	BERW_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
6/27/2024 22:45	57403	SPAN_T1	1	18	17	0.1	0.28	0.18	0	0	0	0	0	0	0	0
6/27/2024 22:45	56801	BENV_T1	5	9	4	1.4	0.9	-0.5	-0.44	-0.47	1	1	0	600	600	0
6/27/2024 22:45	57401	SPAN_T1	0	0	0	0	0	0	-0.75	-0.79	1	1	0	600	600	0
6/27/2024 22:45	58001	WCAR_T1	4	4	0	0.43	1.08	0.65	0	0	0	0	0	0	0	0
6/27/2024 22:45	58003	WCAR_T1	1	6	5	1	0.35	-0.65	0.94	0.91	0	0	0	0	0	0
6/27/2024 22:46	64101	REFR_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
6/27/2024 22:46	58001	WCAR_T1	4	4	0	0.43	1.08	0.65	0	0	0	0	0	0	0	0
6/27/2024 22:46	57403	SPAN_T1	1	18	17	0.1	0.28	0.18	0	0	0	0	0	0	0	0
6/27/2024 22:46	44601	SALE_T2	1	1	0	0.8	0.8	0	-0.06	-0.06	0	0	0	0	0	0
6/27/2024 22:46	58003	WCAR_T1	1	6	5	1	0.35	-0.65	0.94	0.91	0	0	0	0	0	0
6/27/2024 22:46	57401	SPAN_T1	0	0	0	0	0	0	-0.75	-0.79	1	1	0	600	600	0
6/27/2024 22:47	56801	BENV_T1	5	9	4	1.4	0.9	-0.5	-0.44	-0.47	1	1	0	600	600	0
6/27/2024 22:47	24204	PROV_T3	1	2	1	5.8	2.9	-2.9	0	0	0	0	0	0	0	0
6/27/2024 22:47	24202	PROV_T4	0	0	0	0	0	0	-0.46	-0.48	1	1	0	1200	1200	0
6/27/2024 22:47	24201	PROV_T3	1	1	0	6.6	6.4	-0.2	-1.19	-1.2	1	1	0	1200	1200	0
6/27/2024 22:47	51804	EBEN_T2	2	1	-1	0.15	0.1	-0.05	-0.1	-0.24	0	0	0	0	0	0
6/27/2024 22:47	44601	SALE_T2	1	1	0	0.8	0.8	0	-0.06	-0.06	0	0	0	0	0	0
6/27/2024 22:47	20603	GRWO_T2	4	30	26	0.13	0.21	0.08	-0.48	-0.49	1	1	0	900	900	0
6/27/2024 22:48	43301	WATS_T2	1	1	0	0.8	0.6	-0.2	-0.54	-0.55	1	1	0	900	900	0
6/27/2024 22:48	57403	SPAN_T1	1	18	17	0.1	0.28	0.18	0	0	0	0	0	0	0	0
6/27/2024 22:48	52404	GRPA_T2	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
6/27/2024 22:48	56501	ROCK_T2	2	0	-2	7.6	0	-7.6	-0.78	-0.81	0	0	0	0	0	0
6/27/2024 22:48	52002	LING_T2	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
6/27/2024 22:48	52402	GRPA_T2	2	3	1	0.5	0.17	-0.33	0	0	0	0	0	0	0	0
6/27/2024 22:48	46001	BERW_T1	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
6/27/2024 22:48	56802	BENV_T2	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
6/27/2024 22:48	52401	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/27/2024 22:48	52403	GRPA_T2	3	0	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/27/2024 22:48	57401	SPAN_T1	0	0	0	0	0	0	-0.75	-0.79	1	1	0	600	600	0
6/27/2024 22:49	56802	BENV_T2	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
6/27/2024 22:49	43301	WATS_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
6/27/2024 22:49	52401	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/27/2024 22:49	43304	WATS_T2	0	0	0	0	0	0	-0.4	-0.46	0	0	0	0	0	0
6/27/2024 22:49	52402	GRPA_T2	2	3	1	0.5	0.17	-0.33	0	0	0	0	0	0	0	0
6/27/2024 22:49	56801	BENV_T1	5	9	4	1.4	0.9	-0.5	-0.44	-0.47	1	1	0	600	600	0
6/27/2024 22:49	52403	GRPA_T2	3	0	-3	0.4	0	-0.4	0.36	0.34	0	0	0	0	0	0
6/27/2024 22:49	48902	FOSP_T2	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
6/27/2024 22:50	56801	BENV_T1	5	9	4	1.4	0.9	-0.5	-0.44	-0.47	1	1	0	600	600	0
6/27/2024 22:50	48902	FOSP_T2	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
6/27/2024 22:51	56501	ROCK_T2	2	0	-2	7.6	0	-7.6	-0.78	-0.81	0	0	0	0	0	0
6/27/2024 22:51	43304	WATS_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
6/27/2024 22:51	43301	WATS_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
6/27/2024 22:51	56801	BENV_T1	5	9	4	1.4	0.9	-0.5	-0.44	-0.47	1	1	0	600	600	0
6/27/2024 22:51	65702	RVIL_T2	0	0	0	0	0	0	-1.02	-1.06	1	1	0	600	600	0
6/27/2024 22:51	52004	LING_T2	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
6/27/2024 22:52	52402	GRPA_T2	2	3	1	0.5	0.17	-0.33	0	0	0	0	0	0	0	0
6/27/2024 22:52	52401	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/27/2024 22:52	52002	LING_T2	0	0	0	0	0	0	0.77	0.73	0	0	0	0	0	0
6/27/2024 22:52	52403	GRPA_T2	3	0	-3	0.4	0	-0.4	0.68	0.64	0	0	0	0	0	0
6/27/2024 22:53	43301	WATS_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
6/27/2024 22:53	44902	SCOT_T2	150	151	1	0.24	0.27	0.03	-0.76	-0.77	0	0	0	0	0	0
6/27/2024 22:53	43304	WATS_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
6/27/2024 22:53	52002	LING_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
6/27/2024 22:53	56801	BENV_T1	5	9	4	1.4	0.9	-0.5	-0.47	-0.5	1	1	0	600	600	0
6/27/2024 22:54	49804	UNIV_T1	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
6/27/2024 22:54	20603	GRWO_T2	4	30	26	0.13	0.21	0.08	0	0	0	0	0	0	0	0
6/27/2024 22:54	20601	GRWO_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
6/27/2024 22:54	43304	WATS_T2	0	0	0	0	0	0	-0.46	-0.51	0	0	0	0	0	0
6/27/2024 22:54	43301	WATS_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
6/27/2024 22:54	49803	UNIV_T1	0	0	0	0	0	0	-0.99	-1.05	0	0	0	0	0	0
6/27/2024 22:57	43301	WATS_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
6/27/2024 22:57	46001	BERW_T1	0	0	0	0	0	0	0.74	0.72	0	0	0	0	0	0
6/27/2024 22:57	46002	BERW_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/27/2024 22:57	46004	BERW_T2	0	0	0	0	0	0	-0.39	-0.44	0	0	0	0	0	0
6/27/2024 22:57	43304	WATS_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
6/27/2024 22:57	46003	BERW_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
6/27/2024 23:02	56501	ROCK_T2	0	0	0	0	0	0	-0.81	-0.84	0	0	0	0	0	0
6/27/2024 23:11	43402	BENT_T1	3	0	-3	0.27	0	-0.27	0.05	0.05	0	0	0	0	0	0
6/27/2024 23:12	43402	BENT_T1	3	0	-3	0.27	0	-0.27	0.05	0.05	0	0	0	0	0	0
6/27/2024 23:32	43402	BENT_T1	0	3	3	0	0.2	0.2	0.05	0.05	0	0	0	0	0	0
6/27/2024 23:33	43402	BENT_T1	0	3	3	0	0.2	0.2	0.05	0.05	0	0	0	0	0	0
6/27/2024 23:53	43402	BENT_T1	0	4	4	0	0.4	0.4	0.04	0.04	0	0	0	0	0	0
6/27/2024 23:54	43402	BENT_T1	0	4	4	0	0.4	0.4	0.04	0.04	0	0	0	0	0	0
6/28/2024 0:14	43402	BENT_T1	3	12	9	0.2	0.27	0.07	0.04	0.04	0	0	0	0	0	0
6/28/2024 0:15	43402	BENT_T1	4	11	7	0.4	0.27	-0.13	0.04	0.04	0	0	0	0	0	0
6/28/2024 0:57	43402	BENT_T1	4	4	0	0.43	0.43	0	0.03	0.03	0	0	0	0	0	0
6/28/2024 0:58	43402	BENT_T1	4	4	0	0.43	0.43	0	0.03	0.03	0	0	0	0	0	0
6/28/2024 1:16	61301	EARL_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
6/28/2024 1:17	61301	EARL_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
6/28/2024 1:19	43402	BENT_T1	3	4	1	0.5	0.4	-0.1	0.03	0.03	0	0	0	0	0	0
6/28/2024 1:20	43402	BENT_T1	3	4	1	0.5	0.4	-0.1	0.03	0.03	0	0	0	0	0	0
6/28/2024 2:03	43402	BENT_T1	18	58	40	0.19	0.19	0	0.02	0.02	0	0	0	0	0	0
6/28/2024 2:04	43402	BENT_T1	18	58	40	0.19	0.19	0	0.02	0.02	0	0	0	0	0	0
6/28/2024 2:13	56802	BENV_T2	1	1	0	0.8	0.8	0	-1.27	-1.28	0	0	0	0	0	0
6/28/2024 2:25	43402	BENT_T1	32	60	28	0.13	0.2	0.07	0.02	0.02	0	0	0	0	0	0
6/28/2024 2:26	43402	BENT_T1	32	60	28	0.13	0.2	0.07	0.02	0.02	0	0	0	0	0	0
6/28/2024 2:47	43402	BENT_T1	57	64	7	0.19	0.2	0.01	0.02	0.01	0	0	0	0	0	0
6/28/2024 2:48	43402	BENT_T1	57	64	7	0.19	0.2	0.01	0.02	0.01	0	0	0	0	0	0
6/28/2024 3:09	43402	BENT_T1	63	34	-29	0.2	0.17	-0.03	0.01	0.01	0	0	0	0	0	0
6/28/2024 3:10	20801	LOPO_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
6/28/2024 3:10	43402	BENT_T1	63	34	-29	0.2	0.17	-0.03	0.01	0.01	0	0	0	0	0	0
6/28/2024 3:31	43402	BENT_T1	16	87	71	0.21	0.4	0.19	0.01	0.01	0	0	0	0	0	0
6/28/2024 3:32	52401	GRPA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/28/2024 3:32	52402	GRPA_T2	1	1	0	1	1.1	0.1	-0.72	-0.73	0	0	0	0	0	0
6/28/2024 3:32	43402	BENT_T1	16	87	71	0.21	0.4	0.19	0.01	0.01	0	0	0	0	0	0
6/28/2024 3:53	43402	BENT_T1	78	87	9	0.33	0.4	0.07	0	0	0	0	0	0	0	0
6/28/2024 3:54	43402	BENT_T1	78	87	9	0.33	0.4	0.07	0	0	0	0	0	0	0	0
6/28/2024 7:32	62106	ELAN_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
6/28/2024 7:40	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 7:44	46302	ROHR_T1	6	4	-2	1.03	1.5	0.47	0.16	0.15	0	0	0	0	0	0
6/28/2024 7:44	61801	EELI_T2	1	1	0	0.1	0.4	0.3	-0.61	-0.6	1	1	0	600	600	0
6/28/2024 7:46	42001	MNVL_T2	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
6/28/2024 7:47	47101	MARL_T1	0	1	1	0	0	0	-0.5	-0.38	0	0	0	0	0	0
6/28/2024 7:47	47104	MARL_T1	0	0	0	0	0	0	-0.88	-0.86	0	0	0	0	0	0
6/28/2024 7:49	42001	MNVL_T2	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
6/28/2024 7:49	52001	LING_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
6/28/2024 7:51	47101	MARL_T1	0	1	1	0	0	0	-0.25	-0.19	0	0	0	0	0	0
6/28/2024 7:52	67502	WEWI_T2	0	0	0	0	0	0	-0.22	-0.17	0	0	0	0	0	0
6/28/2024 7:52	44601	SALE_T2	0	1	1	0	0	0	0.34	1.16	0	1	1	0	300	300
6/28/2024 7:53	67505	WEWI_T1	0	0	0	0	0	0	-0.02	0.06	1	1	0	900	900	0
6/28/2024 7:53	14601	SWHI_T1	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
6/28/2024 7:54	14601	SWHI_T1	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
6/28/2024 7:54	66202	SISP_T2	0	0	0	0	0	0	-0.4	-0.15	0	0	0	0	0	0
6/28/2024 7:54	67505	WEWI_T1	0	0	0	0	0	0	-0.02	0.06	1	1	0	900	900	0
6/28/2024 7:55	44601	SALE_T2	0	1	1	0	0	0	0.34	1.16	0	1	1	0	300	300
6/28/2024 7:55	56802	BENV_T2	1	1	0	0.6	0.6	0	-2.62	-1.15	0	0	0	0	0	0
6/28/2024 7:56	29402	BELT_T1	1	3	2	8.4	8.6	0.2	0	0	0	0	0	0	0	0
6/28/2024 7:56	56802	BENV_T2	1	1	0	0.6	0.6	0	-1.31	-0.57	0	0	0	0	0	0
6/28/2024 7:56	29401	BELT_T1	0	37	37	0	0.15	0.15	0	0	0	0	0	0	0	0
6/28/2024 7:57	60802	BUCK_T2	0	0	0	0	0	0	0.28	0.31	0	0	0	0	0	0
6/28/2024 7:57	40801	EXCH_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/28/2024 7:57	40802	EXCH_T2	1	1	0	0.2	0.6	0.4	-0.5	-0.54	0	0	0	0	0	0
6/28/2024 7:57	63305	GREE_T1	0	0	0	0	0	0	-1.88	-1.81	1	1	0	900	900	0
6/28/2024 7:58	40801	EXCH_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
6/28/2024 7:58	40802	EXCH_T2	1	1	0	0.2	0.6	0.4	-1.49	-1.62	0	0	0	0	0	0
6/28/2024 7:59	63305	GREE_T1	0	0	0	0	0	0	-1.88	-1.81	1	1	0	900	900	0
6/28/2024 7:59	47101	MARL_T1	0	1	1	0	0	0	-0.19	-0.15	0	0	0	0	0	0
6/28/2024 8:00	23201	HIRU_T2	3	10	7	0.1	0.11	0.01	0	0	0	0	0	0	0	0
6/28/2024 8:00	23203	HIRU_T2	0	0	0	0	0	0	0.05	0.1	0	0	0	0	0	0
6/28/2024 8:03	43202	MVIL_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
6/28/2024 8:04	47101	MARL_T1	0	1	1	0	5.4	5.4	-0.19	-0.15	0	0	0	0	0	0
6/28/2024 8:05	14404	SSLA_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
6/28/2024 8:05	14403	SSLA_T1	0	0	0	0	0	0	0.91	1.01	0	0	0	0	0	0
6/28/2024 8:06	67605	WARW_T1	27	21	-6	0.56	0.58	0.02	-0.98	-0.95	0	0	0	0	0	0
6/28/2024 8:06	43304	WATS_T2	0	0	0	0	0	0	0.76	0.76	0	0	0	0	0	0
6/28/2024 8:07	59101	WALK_T2	1	53	52	0	0.39	0.39	-0.62	-0.63	0	0	0	0	0	0
6/28/2024 8:07	59102	WALK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/28/2024 8:08	56802	BENV_T2	1	3	2	0.2	0.6	0.4	-0.57	-0.56	0	0	0	0	0	0
6/28/2024 8:09	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
6/28/2024 8:09	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
6/28/2024 8:11	22003	BOHE_T1	290	389	99	0.52	0.61	0.09	-0.18	-0.18	0	0	0	0	0	0
6/28/2024 8:11	22001	BOHE_T1	80	149	69	0.12	0.22	0.1	0	0	0	0	0	0	0	0
6/28/2024 8:11	10603	BLGL_T1	0	0	0	0	0	0	0.39	0.43	0	0	0	0	0	0
6/28/2024 8:11	22002	BOHE_T1	0	7	7	0	0.19	0.19	0	0	0	0	0	0	0	0
6/28/2024 8:12	10603	BLGL_T1	0	0	0	0	0	0	0.39	0.43	0	0	0	0	0	0
6/28/2024 8:13	22001	BOHE_T1	80	149	69	0.12	0.22	0.1	0	0	0	0	0	0	0	0
6/28/2024 8:13	22002	BOHE_T1	0	7	7	0	0.19	0.19	0.31	0.35	0	0	0	0	0	0
6/28/2024 8:13	22003	BOHE_T1	290	389	99	0.52	0.61	0.09	0	0	0	0	0	0	0	0
6/28/2024 8:16	59003	MIFF_T1	1	1	0	0.7	0.2	-0.5	-0.24	-0.11	0	0	0	0	0	0
6/28/2024 8:16	59002	MIFF_T1	5	5	0	0.82	0.38	-0.44	0	0	0	0	0	0	0	0
6/28/2024 8:18	40101	HUNT_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
6/28/2024 8:18	51702	OBER_T1	2	4	2	3.55	1.83	-1.72	-1.68	-1.68	2	2	0	1200	1200	0
6/28/2024 8:20	23001	SAJO_T1	1	1	0	0.2	0.5	0.3	0.16	0.17	0	0	0	0	0	0
6/28/2024 8:21	51704	OBER_T1	0	0	0	0	0	0	-1.4	-1.45	1	1	0	1200	1200	0
6/28/2024 8:21	51702	OBER_T1	2	4	2	3.55	1.83	-1.72	0	0	0	0	0	0	0	0
6/28/2024 8:21	58402	MORO_T1	1	0	-1	0.8	0	-0.8	-0.73	-0.74	3	3	0	2400	2400	0
6/28/2024 8:22	67803	WLAN_T1	0	0	0	0	0	0	-0.76	-0.75	0	0	0	0	0	0
6/28/2024 8:22	67503	WEWI_T2	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
6/28/2024 8:23	24201	PROV_T3	1	1	0	5.9	5.8	-0.1	-1.28	-1.26	1	1	0	1200	1200	0
6/28/2024 8:23	24204	PROV_T3	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
6/28/2024 8:24	42201	SHEN_T2	1	7	6	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/28/2024 8:24	42204	SHEN_T2	0	0	0	0	0	0	-0.79	-0.8	1	1	0	1200	1200	0
6/28/2024 8:27	63401	HONY_T1	0	0	0	0	0	0	0.82	0.76	0	0	0	0	0	0
6/28/2024 8:28	20601	GRWO_T2	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
6/28/2024 8:29	63401	HONY_T1	0	0	0	0	0	0	0.82	0.76	0	0	0	0	0	0
6/28/2024 8:29	20603	GRWO_T2	0	0	0	0	0	0	-0.58	-0.56	1	1	0	900	900	0
6/28/2024 8:30	63401	HONY_T1	0	0	0	0	0	0	0.82	0.76	0	0	0	0	0	0
6/28/2024 8:30	24105	EHAZ_T1	4	4	0	6.1	6.23	0.13	0	0	0	0	0	0	0	0
6/28/2024 8:30	24104	EHAZ_T1	1	2	1	0.1	0.25	0.15	-0.88	-0.88	1	1	0	1200	1200	0
6/28/2024 8:31	58401	MORO_T1	0	0	0	0	0	0	-0.85	-0.84	1	1	0	600	600	0
6/28/2024 8:31	56802	BENV_T2	0	2	2	0	0.1	0.1	-0.56	-0.54	0	0	0	0	0	0
6/28/2024 8:32	58402	MORO_T1	0	0	0	0	0	0	-0.74	-0.74	3	3	0	2400	2400	0
6/28/2024 8:32	55508	HERS_T2	2	2	0	1.4	1.25	-0.15	-4.9	-4.88	2	2	0	2400	2400	0
6/28/2024 8:32	55002	NEWP_T1	7	6	-1	0.37	0.53	0.16	-0.33	-0.32	0	0	0	0	0	0
6/28/2024 8:33	55002	NEWP_T1	7	6	-1	0.37	0.53	0.16	-0.17	-0.16	0	0	0	0	0	0
6/28/2024 8:35	58702	ROSE_T2	0	0	0	0	0	0	-1.28	-1.31	0	0	0	0	0	0
6/28/2024 8:35	58706	ROSE_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/28/2024 8:35	13503	MCMI_T2	0	1	1	0	0.6	0.6	0.05	0.05	0	0	0	0	0	0
6/28/2024 8:36	55002	NEWP_T1	7	6	-1	0.37	0.53	0.16	-0.17	-0.16	0	0	0	0	0	0
6/28/2024 8:36	58401	MORO_T1	0	0	0	0	0	0	-0.85	-0.84	1	1	0	600	600	0
6/28/2024 8:37	23001	SAJO_T1	1	2	1	0.5	0.2	-0.3	0.17	0.24	0	0	0	0	0	0
6/28/2024 8:37	23002	SAJO_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/28/2024 8:37	58702	ROSE_T2	0	0	0	0	0	0	-1.31	-1.24	0	0	0	0	0	0
6/28/2024 8:37	58706	ROSE_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/28/2024 8:39	12601	MACA_T1	0	0	0	0	0	0	1.43	1.48	0	0	0	0	0	0
6/28/2024 8:40	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 8:40	20401	ASHF_T2	10	17	7	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
6/28/2024 8:40	20403	ASHF_T2	1	5	4	0.3	0.54	0.24	0.61	0.35	0	0	0	0	0	0
6/28/2024 8:42	56802	BENV_T2	0	2	2	0	0.1	0.1	-0.54	-0.52	0	0	0	0	0	0
6/28/2024 8:45	25402	LAHA_T2	1	1	0	0.1	0.2	0.1	-0.7	-0.66	0	0	0	0	0	0
6/28/2024 8:46	47001	HUGH_T2	3	3	0	6.97	7	0.03	-0.05	-0.04	0	0	0	0	0	0
6/28/2024 8:48	64101	REFR_T1	0	0	0	0	0	0	0.05	0.09	0	0	0	0	0	0
6/28/2024 8:48	50502	MECH_T1	1	1	0	1.6	2	0.4	0	0	0	0	0	0	0	0
6/28/2024 8:48	50501	MECH_T1	4	4	0	1.23	1.28	0.05	-0.74	-0.47	0	0	0	0	0	0
6/28/2024 8:49	41902	REED_T1	0	0	0	0	0	0	1.16	1.17	0	0	0	0	0	0
6/28/2024 8:50	64902	MILL_T2	0	0	0	0	0	0	-0.41	-0.39	1	1	0	900	900	0
6/28/2024 8:50	67605	WARW_T1	14	14	0	0.56	0.53	-0.03	-0.9	-0.88	0	0	0	0	0	0
6/28/2024 8:51	67605	WARW_T1	14	14	0	0.56	0.53	-0.03	-0.9	-0.88	0	0	0	0	0	0
6/28/2024 8:52	67605	WARW_T1	14	14	0	0.56	0.53	-0.03	-1.75	-1.7	0	0	0	0	0	0
6/28/2024 8:53	41902	REED_T1	0	0	0	0	0	0	1.17	1.16	0	0	0	0	0	0
6/28/2024 8:54	67605	WARW_T1	14	14	0	0.56	0.53	-0.03	-0.88	-0.85	0	0	0	0	0	0
6/28/2024 8:59	23201	HIRU_T2	29	32	3	0.13	0.14	0.01	0	0	0	0	0	0	0	0
6/28/2024 8:59	46802	HEPB_T1	1	1	0	0.5	1	0.5	-0.19	-0.17	0	0	0	0	0	0
6/28/2024 8:59	23202	HIRU_T2	3	8	5	0.1	0.1	0	0	0	0	0	0	0	0	0
6/28/2024 8:59	23203	HIRU_T2	4	6	2	0.1	0.12	0.02	0.11	0.07	0	0	0	0	0	0
6/28/2024 8:59	22905	HARW_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
6/28/2024 9:04	17002	RIRO_T2	3	3	0	0.63	0.83	0.2	0.8	0.88	0	0	0	0	0	0
6/28/2024 9:04	22905	HARW_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
6/28/2024 9:07	44301	BEAV_T2	0	1	1	0	0.3	0.3	0.04	0.32	2	2	0	1500	1500	0
6/28/2024 9:08	14801	TREI_T2	0	1	1	0	0.1	0.1	0.58	0.6	0	0	0	0	0	0
6/28/2024 9:09	15001	BLMO_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/28/2024 9:11	44301	BEAV_T2	0	1	1	0	0.3	0.3	0.04	0.32	2	2	0	1500	1500	0
6/28/2024 9:12	62102	ELAN_T1	1	1	0	0.7	0.7	0	0.88	0.98	0	0	0	0	0	0
6/28/2024 9:12	15001	BLMO_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/28/2024 9:13	15001	BLMO_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/28/2024 9:17	63501	HEID_TBK1-2	3	7	4	0.47	0.66	0.19	-0.15	-0.16	1	1	0	900	900	0
6/28/2024 9:18	64902	MILL_T2	0	0	0	0	0	0	-0.38	-0.36	1	1	0	900	900	0
6/28/2024 9:18	21203	ECAR_T1	4	2	-2	0.43	0.85	0.42	0.81	0.89	0	0	0	0	0	0
6/28/2024 9:19	64902	MILL_T2	0	0	0	0	0	0	-0.38	-0.36	1	1	0	900	900	0
6/28/2024 9:19	63202	MGTN_T2	0	0	0	0	0	0	0.36	0.45	1	1	0	900	900	0
6/28/2024 9:20	50701	SMEC_T1	4	2	-2	0.28	0.25	-0.03	-0.47	-0.54	0	0	0	0	0	0
6/28/2024 9:22	50701	SMEC_T1	4	2	-2	0.28	0.25	-0.03	-0.54	-0.45	0	0	0	0	0	0
6/28/2024 9:23	20402	ASHF_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
6/28/2024 9:23	20403	ASHF_T2	6	23	17	0.5	0.37	-0.13	0.38	0.28	0	0	0	0	0	0
6/28/2024 9:23	67805	WLAN_T1	0	0	0	0	0	0	-0.69	-0.53	0	0	0	0	0	0
6/28/2024 9:23	55102	WERT_T2	0	0	0	0	0	0	-1.35	-1.27	2	2	0	1200	1200	0
6/28/2024 9:23	20401	ASHF_T2	11	16	5	0.47	0.47	0	0	0	0	0	0	0	0	0
6/28/2024 9:24	56802	BENV_T2	3	5	2	1	0.88	-0.12	-0.48	-0.46	0	0	0	0	0	0
6/28/2024 9:25	20401	ASHF_T2	11	16	5	0.47	0.47	0	0	0	0	0	0	0	0	0
6/28/2024 9:25	56802	BENV_T2	3	5	2	1	0.88	-0.12	-0.48	-0.46	0	0	0	0	0	0
6/28/2024 9:25	20402	ASHF_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
6/28/2024 9:25	20403	ASHF_T2	6	23	17	0.5	0.37	-0.13	0.38	0.28	0	0	0	0	0	0
6/28/2024 9:26	55102	WERT_T2	0	0	0	0	0	0	-1.35	-1.27	2	2	0	1200	1200	0
6/28/2024 9:28	29402	BELT_T1	1	1	0	7.7	8	0.3	0	0	0	0	0	0	0	0
6/28/2024 9:28	21203	ECAR_T1	4	2	-2	0.43	0.85	0.42	0.89	0.86	0	0	0	0	0	0
6/28/2024 9:28	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 9:29	28702	HAML_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
6/28/2024 9:29	28703	HAML_T2	3	3	0	0.23	0.4	0.17	0	0	0	0	0	0	0	0
6/28/2024 9:29	28701	HAML_T2	3	4	1	0.4	0.85	0.45	0	0	0	0	0	0	0	0
6/28/2024 9:29	28704	HAML_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/28/2024 9:33	67605	WARW_T1	11	12	1	0.3	0.38	0.08	-0.83	-0.81	0	0	0	0	0	0
6/28/2024 9:34	67605	WARW_T1	11	12	1	0.3	0.38	0.08	-0.83	-0.81	0	0	0	0	0	0
6/28/2024 9:34	56501	ROCK_T2	5	5	0	0.38	0.38	0	-2.15	-2.11	0	0	0	0	0	0
6/28/2024 9:36	43304	WATS_T2	0	2	2	0	0.25	0.25	-0.36	-0.46	0	0	0	0	0	0
6/28/2024 9:36	43302	WATS_T2	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
6/28/2024 9:36	43301	WATS_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
6/28/2024 9:37	43301	WATS_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
6/28/2024 9:37	43304	WATS_T2	0	2	2	0	0.25	0.25	-0.36	-0.46	0	0	0	0	0	0
6/28/2024 9:37	43302	WATS_T2	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
6/28/2024 9:37	55101	WERT_T1	0	0	0	0	0	0	-1.23	-1.17	3	3	0	2400	2400	0
6/28/2024 9:38	55101	WERT_T1	0	0	0	0	0	0	-2.46	-2.35	6	6	0	4800	4800	0
6/28/2024 9:39	15702	TANN_T2	4	6	2	0.2	0.45	0.25	-0.28	-0.3	0	0	0	0	0	0
6/28/2024 9:39	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
6/28/2024 9:42	55101	WERT_T1	0	0	0	0	0	0	-1.23	-1.17	3	3	0	2400	2400	0
6/28/2024 9:43	48302	ORWI_T2	1	2	1	0.2	0.3	0.1	0.11	0.13	0	0	0	0	0	0
6/28/2024 9:43	63501	HEID_TBK1-2	3	8	5	0.4	0.59	0.19	-0.05	0.08	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/28/2024 9:44	63501	HEID_TBK1-2	3	8	5	0.4	0.59	0.19	-0.09	0.16	2	2	0	1800	1800	0
6/28/2024 9:45	28701	HAML_T2	4	4	0	0.85	1.08	0.23	0	0	0	0	0	0	0	0
6/28/2024 9:45	28703	HAML_T2	3	3	0	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
6/28/2024 9:45	28702	HAML_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
6/28/2024 9:45	63501	HEID_TBK1-2	7	9	2	0.66	0.44	-0.22	-0.05	0.08	1	1	0	900	900	0
6/28/2024 9:45	28704	HAML_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/28/2024 9:47	12601	MACA_T1	1	1	0	0.9	1.5	0.6	0.91	0.91	0	0	0	0	0	0
6/28/2024 9:47	13501	MCMI_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
6/28/2024 9:47	13502	MCMI_T1	2	2	0	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
6/28/2024 9:47	12604	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 9:48	13503	MCMI_T2	2	7	5	0.6	0.54	-0.06	0.06	0.06	0	0	0	0	0	0
6/28/2024 9:48	13501	MCMI_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
6/28/2024 9:48	13502	MCMI_T1	2	2	0	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
6/28/2024 9:48	63501	HEID_TBK1-2	7	9	2	0.66	0.44	-0.22	-0.05	0.08	1	1	0	900	900	0
6/28/2024 9:50	65003	NEFF_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/28/2024 9:50	13502	MCMI_T1	2	2	0	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
6/28/2024 9:50	65004	NEFF_T2	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
6/28/2024 9:50	13501	MCMI_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
6/28/2024 9:50	13503	MCMI_T2	2	7	5	0.6	0.54	-0.06	0.06	0.06	0	0	0	0	0	0
6/28/2024 9:51	42201	SHEN_T2	1	2	1	0.1	0.1	0	0.98	1	0	0	0	0	0	0
6/28/2024 9:55	15702	TANN_T2	5	8	3	0.32	0.54	0.22	-0.3	-0.3	0	0	0	0	0	0
6/28/2024 9:55	15703	TANN_T2	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
6/28/2024 9:59	56501	ROCK_T2	5	5	0	0.34	0.34	0	-1.03	-1.01	0	0	0	0	0	0
6/28/2024 10:00	47402	PENS_T1	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
6/28/2024 10:00	47401	PENS_T1	5	5	0	0.84	0.95	0.11	0.23	0.22	0	0	0	0	0	0
6/28/2024 10:00	56501	ROCK_T2	5	5	0	0.34	0.32	-0.02	-1.03	-1.01	0	0	0	0	0	0
6/28/2024 10:00	64101	REFR_T1	0	1	1	0	0.5	0.5	0.88	0.95	0	0	0	0	0	0
6/28/2024 10:00	23002	SAJO_T1	1	0	-1	1.8	2.1	0.3	0	0	0	0	0	0	0	0
6/28/2024 10:00	42201	SHEN_T2	2	1	-1	0.1	0.1	0	0.5	0.51	0	0	0	0	0	0
6/28/2024 10:00	23001	SAJO_T1	2	4	2	0.45	0.45	0	0.46	0.46	0	0	0	0	0	0
6/28/2024 10:00	56504	ROCK_T2	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
6/28/2024 10:00	13503	MCMI_T2	5	14	9	0.48	0.51	0.03	0.06	0.06	0	0	0	0	0	0
6/28/2024 10:00	67502	WEWI_T2	2	5	3	0.5	0.44	-0.06	-0.95	-0.85	1	1	0	900	900	0
6/28/2024 10:00	40505	CRES_T1	3	3	0	3.83	4.5	0.67	0.47	0.49	0	0	0	0	0	0
6/28/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	-1.37	-1.36	6	6	0	4800	4800	0
6/28/2024 10:00	58401	MORO_T1	0	0	0	0	0	0	-1.58	-1.56	2	2	0	1200	1200	0
6/28/2024 10:00	40504	CRES_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/28/2024 10:00	40101	HUNT_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
6/28/2024 10:03	47402	PENS_T1	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
6/28/2024 10:03	47401	PENS_T1	5	5	0	0.84	0.95	0.11	0.11	0.11	0	0	0	0	0	0
6/28/2024 10:04	47401	PENS_T1	5	5	0	0.84	0.95	0.11	0.11	0.11	0	0	0	0	0	0
6/28/2024 10:04	47402	PENS_T1	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
6/28/2024 10:04	15601	NSTR_T2	4	65	61	0.55	0.22	-0.33	0	0	0	0	0	0	0	0
6/28/2024 10:04	15602	NSTR_T2	0	2	2	0	0.15	0.15	0.4	0.39	0	0	0	0	0	0
6/28/2024 10:04	15603	NSTR_T2	5	16	11	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
6/28/2024 10:05	42201	SHEN_T2	2	1	-1	0.1	0.1	0	0.5	0.51	0	0	0	0	0	0
6/28/2024 10:06	47401	PENS_T1	5	5	0	0.84	0.95	0.11	0.11	0.12	0	0	0	0	0	0
6/28/2024 10:06	47402	PENS_T1	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
6/28/2024 10:07	67503	WEWI_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
6/28/2024 10:07	67502	WEWI_T2	2	5	3	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
6/28/2024 10:08	61101	BERK_T5	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/28/2024 10:08	66502	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/28/2024 10:08	56802	BENV_T2	3	6	3	0.6	0.68	0.08	-0.42	-0.4	0	0	0	0	0	0
6/28/2024 10:08	20402	ASHF_T2	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
6/28/2024 10:08	20403	ASHF_T2	6	2	-4	0.52	0.95	0.43	0.54	0.63	0	0	0	0	0	0
6/28/2024 10:08	20401	ASHF_T2	12	11	-1	0.58	0.49	-0.09	0	0	0	0	0	0	0	0
6/28/2024 10:08	61102	BERK_T5	0	0	0	0	0	0	0.62	0.75	1	1	0	300	300	0
6/28/2024 10:08	42201	SHEN_T2	2	1	-1	0.1	0.1	0	0.51	0.52	0	0	0	0	0	0
6/28/2024 10:08	64101	REFR_T1	0	1	1	0	0.5	0.5	0.27	0.33	0	0	0	0	0	0
6/28/2024 10:08	66504	SMAN_T2	0	0	0	0	0	0	0.25	0.28	0	0	0	0	0	0
6/28/2024 10:09	56802	BENV_T2	3	6	3	0.6	0.68	0.08	-0.42	-0.4	0	0	0	0	0	0
6/28/2024 10:09	42204	SHEN_T2	0	0	0	0	0	0	-0.79	-0.79	1	1	0	1200	1200	0
6/28/2024 10:09	42201	SHEN_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/28/2024 10:09	43402	BENT_T1	7	4	-3	0.54	0.63	0.09	0.17	0.17	0	0	0	0	0	0
6/28/2024 10:10	20403	ASHF_T2	6	2	-4	0.52	0.95	0.43	0.54	0.63	0	0	0	0	0	0
6/28/2024 10:10	61102	BERK_T5	0	0	0	0	0	0	0.62	0.75	1	1	0	300	300	0
6/28/2024 10:10	20402	ASHF_T2	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
6/28/2024 10:10	61101	BERK_T5	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/28/2024 10:10	56802	BENV_T2	3	6	3	0.6	0.68	0.08	-0.42	-0.4	0	0	0	0	0	0
6/28/2024 10:10	43402	BENT_T1	7	4	-3	0.54	0.63	0.09	0.17	0.17	0	0	0	0	0	0
6/28/2024 10:10	20401	ASHF_T2	12	11	-1	0.58	0.49	-0.09	0	0	0	0	0	0	0	0
6/28/2024 10:11	60201	ATGL_T2	0	0	0	0	0	0	0.3	0.35	1	1	0	300	300	0
6/28/2024 10:11	56501	ROCK_T2	5	5	0	0.34	0.32	-0.02	-1.01	-0.99	0	0	0	0	0	0
6/28/2024 10:11	61101	BERK_T5	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/28/2024 10:11	61803	EELI_T2	0	1	1	0	0.1	0.1	1.24	1.21	0	0	0	0	0	0
6/28/2024 10:11	43402	BENT_T1	7	4	-3	0.54	0.63	0.09	0.17	0.17	0	0	0	0	0	0
6/28/2024 10:11	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 10:11	61102	BERK_T5	0	0	0	0	0	0	3.11	3.73	5	5	0	1500	1500	0
6/28/2024 10:12	61102	BERK_T5	0	0	0	0	0	0	0.62	0.75	1	1	0	300	300	0
6/28/2024 10:12	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 10:12	41602	CLEV_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
6/28/2024 10:12	61101	BERK_T5	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/28/2024 10:13	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 10:14	25404	LAHA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/28/2024 10:14	28703	HAML_T2	3	3	0	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
6/28/2024 10:14	56501	ROCK_T2	5	5	0	0.34	0.32	-0.02	-1.01	-0.99	0	0	0	0	0	0
6/28/2024 10:14	40902	JESH_T1	0	0	0	0	0	0	-0.31	-0.23	1	1	0	600	600	0
6/28/2024 10:14	40901	JESH_T1	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
6/28/2024 10:14	61101	BERK_T5	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
6/28/2024 10:14	61102	BERK_T5	0	0	0	0	0	0	0.62	0.75	1	1	0	300	300	0
6/28/2024 10:14	28704	HAML_T2	4	4	0	1.03	1.03	0	0	0	0	0	0	0	0	0
6/28/2024 10:14	40101	HUNT_T2	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
6/28/2024 10:14	25402	LAHA_T2	1	1	0	0.4	0.6	0.2	-0.34	-0.38	0	0	0	0	0	0
6/28/2024 10:14	28704	HAML_T2	1	1	0	0.4	0.2	-0.2	0.01	0.01	0	0	0	0	0	0
6/28/2024 10:15	29402	BELT_T1	1	4	3	7.7	2.38	-5.32	0	0	0	0	0	0	0	0
6/28/2024 10:15	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 10:15	63501	HEID_TBK1-2	9	21	12	0.42	0.32	-0.1	0.28	0.16	2	2	0	1800	1800	0
6/28/2024 10:15	21203	ECAR_T1	2	2	0	0.55	1	0.45	0.86	0.9	0	0	0	0	0	0
6/28/2024 10:16	56501	ROCK_T2	3	5	2	0.43	0.32	-0.11	-1.01	-0.99	0	0	0	0	0	0
6/28/2024 10:16	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/28/2024 10:16	13502	MCMI_T1	2	3	1	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
6/28/2024 10:16	13501	MCMI_T1	0	1	1	0	0.2	0.2	0.19	0.2	0	0	0	0	0	0
6/28/2024 10:17	12002	HATF_T1	0	0	0	0	0	0	-0.58	-0.47	1	1	0	1200	1200	0
6/28/2024 10:17	13503	MCMI_T2	6	14	8	0.6	0.51	-0.09	0.06	0.07	0	0	0	0	0	0
6/28/2024 10:17	64204	KINZ_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
6/28/2024 10:17	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 10:17	13501	MCMI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/28/2024 10:17	28701	HAML_T2	4	4	0	1.03	1.08	0.05	0	0	0	0	0	0	0	0
6/28/2024 10:17	28702	HAML_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
6/28/2024 10:17	59002	MIFF_T1	5	5	0	0.64	0.38	-0.26	0	0	0	0	0	0	0	0
6/28/2024 10:17	59001	MIFF_T1	1	2	1	0.8	0.8	0	0	0	0	0	0	0	0	0
6/28/2024 10:17	13502	MCMI_T1	2	3	1	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
6/28/2024 10:17	64203	KINZ_T1	0	0	0	0	0	0	1.1	1.2	2	2	0	900	900	0
6/28/2024 10:17	28704	HAML_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/28/2024 10:17	59003	MIFF_T1	2	2	0	0.55	0.2	-0.35	-0.31	0.08	0	0	0	0	0	0
6/28/2024 10:17	28703	HAML_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
6/28/2024 10:17	12006	HATF_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/28/2024 10:19	13501	MCMI_T1	0	1	1	0	0.2	0.2	0.39	0.41	0	0	0	0	0	0
6/28/2024 10:19	13502	MCMI_T1	2	3	1	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
6/28/2024 10:19	44601	SALE_T2	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
6/28/2024 10:20	15702	TANN_T2	8	6	-2	0.54	0.65	0.11	-0.3	-0.24	0	0	0	0	0	0
6/28/2024 10:20	13503	MCMI_T2	6	14	8	0.6	0.51	-0.09	0.06	0.07	0	0	0	0	0	0
6/28/2024 10:20	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
6/28/2024 10:20	13501	MCMI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/28/2024 10:20	25502	MADI_T1	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
6/28/2024 10:20	25503	MADI_T1	98	94	-4	0.29	0.28	-0.01	-0.82	-0.82	0	0	0	0	0	0
6/28/2024 10:20	13502	MCMI_T1	2	3	1	0.8	0.63	-0.17	-0.09	-0.09	0	0	0	0	0	0
6/28/2024 10:20	25501	MADI_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
6/28/2024 10:21	67605	WARW_T1	11	11	0	0.45	0.35	-0.1	-0.75	-0.73	0	0	0	0	0	0
6/28/2024 10:21	56803	BENV_T1	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
6/28/2024 10:21	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
6/28/2024 10:21	67603	WARW_T1	1	1	0	0.3	0.4	0.1	0.16	0.17	0	0	0	0	0	0
6/28/2024 10:21	15702	TANN_T2	8	6	-2	0.54	0.65	0.11	-0.3	-0.24	0	0	0	0	0	0
6/28/2024 10:21	67402	WAKE_T2	0	0	0	0	0	0	0.72	0.74	1	1	0	600	600	0
6/28/2024 10:21	56801	BENV_T1	22	21	-1	0.54	0.52	-0.02	-0.66	-0.64	1	1	0	600	600	0
6/28/2024 10:22	56802	BENV_T2	6	3	-3	0.68	0.7	0.02	-0.8	-0.76	0	0	0	0	0	0
6/28/2024 10:22	67804	WLAN_T1	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/28/2024 10:22	15702	TANN_T2	8	6	-2	0.54	0.65	0.11	-0.24	-0.25	0	0	0	0	0	0
6/28/2024 10:22	67402	WAKE_T2	0	0	0	0	0	0	1.45	1.49	2	2	0	1200	1200	0
6/28/2024 10:22	13303	ORVI_T1	5	4	-1	0.38	0.3	-0.08	0.48	0.47	0	0	0	0	0	0
6/28/2024 10:22	66502	SMAN_T2	1	1	0	0.3	0.5	0.2	0.49	0.63	0	0	0	0	0	0
6/28/2024 10:22	67803	WLAN_T1	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
6/28/2024 10:22	58003	WCAR_T1	3	3	0	0.57	0.6	0.03	0.9	0.9	0	0	0	0	0	0
6/28/2024 10:22	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
6/28/2024 10:22	44601	SALE_T2	0	0	0	0	0	0	0.76	0.76	0	0	0	0	0	0
6/28/2024 10:22	58001	WCAR_T1	5	5	0	0.88	0.9	0.02	0	0	0	0	0	0	0	0
6/28/2024 10:23	66502	SMAN_T2	1	1	0	0.3	0.5	0.2	0.49	0.63	0	0	0	0	0	0
6/28/2024 10:23	67605	WARW_T1	11	11	0	0.45	0.35	-0.1	-0.75	-0.73	0	0	0	0	0	0
6/28/2024 10:23	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/28/2024 10:23	56501	ROCK_T2	3	5	2	0.43	0.32	-0.11	-0.99	-0.96	0	0	0	0	0	0
6/28/2024 10:23	67603	WARW_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/28/2024 10:24	58001	WCAR_T1	5	5	0	0.88	0.9	0.02	0	0	0	0	0	0	0	0
6/28/2024 10:24	67605	WARW_T1	11	11	0	0.45	0.35	-0.1	-0.75	-0.73	0	0	0	0	0	0
6/28/2024 10:24	67603	WARW_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/28/2024 10:24	58003	WCAR_T1	3	3	0	0.57	0.6	0.03	0.9	0.9	0	0	0	0	0	0
6/28/2024 10:25	16302	ALPA_T2	0	2	2	0	0.2	0.2	-0.26	-0.17	0	0	0	0	0	0
6/28/2024 10:25	67605	WARW_T1	11	11	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
6/28/2024 10:25	67603	WARW_T1	1	1	0	0.3	0.4	0.1	0.16	0.17	0	0	0	0	0	0
6/28/2024 10:26	67603	WARW_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/28/2024 10:26	67605	WARW_T1	11	11	0	0.45	0.35	-0.1	-0.75	-0.73	0	0	0	0	0	0
6/28/2024 10:26	16302	ALPA_T2	0	2	2	0	0.2	0.2	-0.26	-0.17	0	0	0	0	0	0
6/28/2024 10:27	67605	WARW_T1	11	11	0	0.45	0.35	-0.1	-0.75	-0.73	0	0	0	0	0	0
6/28/2024 10:27	67603	WARW_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/28/2024 10:27	10903	COOP_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
6/28/2024 10:27	16302	ALPA_T2	0	2	2	0	0.2	0.2	-0.52	-0.33	0	0	0	0	0	0
6/28/2024 10:27	10901	COOP_T2	0	0	0	0	0	0	0.07	0.05	1	1	0	1200	1200	0
6/28/2024 10:28	67502	WEWI_T2	4	5	1	0.48	0.54	0.06	0	0	0	0	0	0	0	0
6/28/2024 10:28	67503	WEWI_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
6/28/2024 10:30	64802	MONE_T2	1	2	1	0.3	0.3	0	0.49	0.5	0	0	0	0	0	0
6/28/2024 10:30	11601	CEAL_T1	0	1	1	0	0.5	0.5	0	0	1	1	0	1200	1200	0
6/28/2024 10:30	12301	LANA_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
6/28/2024 10:32	42902	MIDD_T2	2	2	0	0.25	0.45	0.2	0.36	0.32	0	0	0	0	0	0
6/28/2024 10:32	42903	MIDD_T2	2	2	0	1.2	1.45	0.25	0	0	0	0	0	0	0	0
6/28/2024 10:34	40601	PIGR_T1	12	9	-3	0.37	0.38	0.01	0.29	0.19	0	0	0	0	0	0
6/28/2024 10:34	60502	NMAN_T2	0	0	0	0	0	0	0.27	0.31	0	0	0	0	0	0
6/28/2024 10:34	60504	NMAN_T2	2	2	0	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
6/28/2024 10:34	41902	REED_T1	0	0	0	0	0	0	1.15	1.16	0	0	0	0	0	0
6/28/2024 10:34	60501	NMAN_T2	3	3	0	5.27	4.77	-0.5	0	0	0	0	0	0	0	0
6/28/2024 10:35	42902	MIDD_T2	2	2	0	0.25	0.45	0.2	0.36	0.32	0	0	0	0	0	0
6/28/2024 10:35	65205	PRIN_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
6/28/2024 10:35	42903	MIDD_T2	2	2	0	1.2	1.45	0.25	0	0	0	0	0	0	0	0
6/28/2024 10:36	66504	SMAN_T2	0	0	0	0	0	0	0.77	0.72	0	0	0	0	0	0
6/28/2024 10:36	66502	SMAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/28/2024 10:36	66902	SHIL_T2	2	1	-1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
6/28/2024 10:36	67203	TEHI_T1	1	1	0	0.2	0.1	-0.1	2.1	2.12	4	4	0	3000	3000	0
6/28/2024 10:36	66901	SHIL_T2	1	0	-1	0.1	0	-0.1	0.31	0.33	0	0	0	0	0	0
6/28/2024 10:36	64802	MONE_T2	1	2	1	0.3	0.3	0	0.5	0.51	0	0	0	0	0	0
6/28/2024 10:36	66903	SHIL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
6/28/2024 10:37	66502	SMAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/28/2024 10:37	42201	SHEN_T2	1	0	-1	0.1	0	-0.1	0.53	0.78	0	0	0	0	0	0
6/28/2024 10:37	66103	REAM_T2	0	0	0	0	0	0	1.47	1.4	1	1	0	1200	1200	0
6/28/2024 10:37	40601	PIGR_T1	12	9	-3	0.37	0.38	0.01	0.38	0.38	0	0	0	0	0	0
6/28/2024 10:37	66504	SMAN_T2	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
6/28/2024 10:38	41902	REED_T1	0	0	0	0	0	0	1.16	1.18	0	0	0	0	0	0
6/28/2024 10:39	44302	BEAV_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
6/28/2024 10:39	44301	BEAV_T2	0	10	10	0	0.41	0.41	-0.04	-0.11	2	2	0	1500	1500	0
6/28/2024 10:39	20403	ASHF_T2	2	3	1	0.95	0.9	-0.05	0.66	0.68	0	0	0	0	0	0
6/28/2024 10:39	20401	ASHF_T2	11	10	-1	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
6/28/2024 10:39	20402	ASHF_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/28/2024 10:40	55101	WERT_T1	0	0	0	0	0	0	-2.26	-2.38	6	6	0	4800	4800	0
6/28/2024 10:40	44302	BEAV_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
6/28/2024 10:40	44301	BEAV_T2	0	10	10	0	0.41	0.41	-0.07	-0.22	4	4	0	3000	3000	0
6/28/2024 10:41	44301	BEAV_T2	0	10	10	0	0.41	0.41	-0.04	-0.11	2	2	0	1500	1500	0
6/28/2024 10:41	44302	BEAV_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
6/28/2024 10:41	20403	ASHF_T2	2	3	1	0.95	0.9	-0.05	0.66	0.68	0	0	0	0	0	0
6/28/2024 10:41	20401	ASHF_T2	11	10	-1	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
6/28/2024 10:41	55101	WERT_T1	0	0	0	0	0	0	-3.39	-3.57	9	9	0	7200	7200	0
6/28/2024 10:41	20402	ASHF_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/28/2024 10:42	44301	BEAV_T2	0	10	10	0	0.41	0.41	-0.07	-0.22	4	4	0	3000	3000	0
6/28/2024 10:42	44302	BEAV_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
6/28/2024 10:45	20401	ASHF_T2	10	6	-4	0.38	0.37	-0.01	-0.05	-0.01	0	0	0	0	0	0
6/28/2024 10:45	20402	ASHF_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/28/2024 10:45	20403	ASHF_T2	2	4	2	1.05	0.85	-0.2	0	0	0	0	0	0	0	0
6/28/2024 10:48	65603	OVIL_T2	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
6/28/2024 10:50	12701	MACU_T1	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
6/28/2024 10:50	44703	MUNC_T2	0	0	0	0	0	0	0.96	1.04	0	0	0	0	0	0
6/28/2024 10:51	43304	WATS_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/28/2024 10:51	67603	WARW_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/28/2024 10:51	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 10:51	43301	WATS_T2	1	2	1	0.2	0.4	0.2	-0.45	-0.44	1	1	0	900	900	0
6/28/2024 10:51	67605	WARW_T1	4	6	2	0.45	0.42	-0.03	-0.78	-0.73	0	0	0	0	0	0
6/28/2024 10:52	60201	ATGL_T2	0	0	0	0	0	0	0.4	0.4	1	1	0	300	300	0
6/28/2024 10:53	43301	WATS_T2	1	2	1	0.2	0.4	0.2	-0.9	-0.87	2	2	0	1800	1800	0
6/28/2024 10:53	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 10:53	43304	WATS_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/28/2024 10:54	58001	WCAR_T1	5	5	0	0.78	0.42	-0.36	0	0	0	0	0	0	0	0
6/28/2024 10:54	60201	ATGL_T2	0	0	0	0	0	0	0.4	0.4	1	1	0	300	300	0
6/28/2024 10:54	58003	WCAR_T1	2	1	-1	0.75	0.9	0.15	0	0	0	0	0	0	0	0
6/28/2024 10:55	43304	WATS_T2	0	2	2	0	0.3	0.3	-0.52	-0.55	0	0	0	0	0	0
6/28/2024 10:55	43301	WATS_T2	1	2	1	0.2	0.4	0.2	-0.45	-0.44	1	1	0	900	900	0
6/28/2024 10:55	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 10:55	60801	BUCK_T1	0	0	0	0	0	0	-0.21	-0.25	1	1	0	600	600	0
6/28/2024 10:56	67605	WARW_T1	4	6	2	0.45	0.42	-0.03	-0.78	-0.73	0	0	0	0	0	0
6/28/2024 10:56	67603	WARW_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
6/28/2024 10:57	29402	BELT_T1	3	106	103	0.3	0.6	0.3	0	0	0	0	0	0	0	0
6/28/2024 10:57	29401	BELT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/28/2024 10:58	26704	HEML_T2	1	1	0	0.1	0.1	0	-0.71	-0.71	1	1	0	1200	1200	0
6/28/2024 10:59	52403	GRPA_T2	5	5	0	0.42	0.33	-0.09	0	0	0	0	0	0	0	0
6/28/2024 10:59	52402	GRPA_T2	5	5	0	0.3	0.32	0.02	-0.77	-0.76	0	0	0	0	0	0
6/28/2024 10:59	40101	HUNT_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
6/28/2024 11:00	29402	BELT_T1	99	129	30	0.62	0.64	0.02	0	0	0	0	0	0	0	0
6/28/2024 11:00	29401	BELT_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/28/2024 11:01	45802	HEGI_T2	1	0	-1	0.3	0	-0.3	1.44	1.41	1	1	0	300	300	0
6/28/2024 11:01	52403	GRPA_T2	2	6	4	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
6/28/2024 11:01	52402	GRPA_T2	4	7	3	0.23	0.29	0.06	-2.3	-2.27	0	0	0	0	0	0
6/28/2024 11:01	40101	HUNT_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
6/28/2024 11:01	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 11:04	58402	MORO_T1	0	0	0	0	0	0	-0.7	-0.71	3	3	0	2400	2400	0
6/28/2024 11:05	64101	REFR_T1	1	1	0	0.3	0.4	0.1	0.19	0.2	0	0	0	0	0	0
6/28/2024 11:06	64101	REFR_T1	1	1	0	0.3	0.4	0.1	0.4	0.42	0	0	0	0	0	0
6/28/2024 11:07	64101	REFR_T1	1	1	0	0.3	0.4	0.1	0.2	0.21	0	0	0	0	0	0
6/28/2024 11:07	55101	WERT_T1	0	0	0	0	0	0	-3.98	-3.87	8	8	0	6600	6600	0
6/28/2024 11:07	56803	BENV_T1	2	1	-1	1.45	2.8	1.35	0	0	0	0	0	0	0	0
6/28/2024 11:07	56801	BENV_T1	11	10	-1	0.68	0.63	-0.05	-1.18	-1.15	2	2	0	1200	1200	0
6/28/2024 11:08	64101	REFR_T1	1	1	0	0.3	0.4	0.1	0.6	0.63	0	0	0	0	0	0
6/28/2024 11:08	52501	PROG_T1	0	0	0	0	0	0	0.37	0.36	1	1	0	300	300	0
6/28/2024 11:09	56803	BENV_T1	2	1	-1	1.45	2.8	1.35	0	0	0	0	0	0	0	0
6/28/2024 11:09	56801	BENV_T1	11	10	-1	0.68	0.63	-0.05	-1.77	-1.72	3	3	0	1800	1800	0
6/28/2024 11:09	64101	REFR_T1	1	1	0	0.3	0.4	0.1	0.4	0.42	0	0	0	0	0	0
6/28/2024 11:09	54602	SUMM_T2	0	0	0	0	0	0	-2.96	-2.9	1	1	0	600	600	0
6/28/2024 11:10	56803	BENV_T1	2	1	-1	1.45	2.8	1.35	0	0	0	0	0	0	0	0
6/28/2024 11:10	22002	BOHE_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 11:10	56801	BENV_T1	11	10	-1	0.68	0.63	-0.05	-0.59	-0.57	1	1	0	600	600	0
6/28/2024 11:10	22003	BOHE_T1	269	330	61	0.51	0.61	0.1	-0.17	-0.17	0	0	0	0	0	0
6/28/2024 11:10	22001	BOHE_T1	9	90	81	0.27	0.18	-0.09	0.34	0.34	0	0	0	0	0	0
6/28/2024 11:11	24104	EHAZ_T1	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/28/2024 11:11	55101	WERT_T1	0	0	0	0	0	0	-3.98	-3.87	8	8	0	6600	6600	0
6/28/2024 11:11	24101	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 11:11	24103	EHAZ_T1	0	1	1	0	7.9	7.9	-1.2	-1.2	0	0	0	0	0	0
6/28/2024 11:11	56801	BENV_T1	11	10	-1	0.68	0.63	-0.05	-1.18	-1.15	2	2	0	1200	1200	0
6/28/2024 11:11	56803	BENV_T1	2	1	-1	1.45	2.8	1.35	0	0	0	0	0	0	0	0
6/28/2024 11:11	24105	EHAZ_T1	4	4	0	6.6	6.55	-0.05	0	0	0	0	0	0	0	0
6/28/2024 11:12	60904	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/28/2024 11:12	60901	DONG_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/28/2024 11:12	60902	DONG_T2	0	0	0	0	0	0	1.19	1.18	0	0	0	0	0	0
6/28/2024 11:14	43402	BENT_T1	5	8	3	0.62	0.49	-0.13	0.18	0.18	0	0	0	0	0	0
6/28/2024 11:15	43402	BENT_T1	4	10	6	0.63	0.52	-0.11	0.18	0.18	0	0	0	0	0	0
6/28/2024 11:17	40101	HUNT_T2	0	0	0	0	0	0	-0.04	-0.1	0	0	0	0	0	0
6/28/2024 11:19	58402	MORO_T1	0	0	0	0	0	0	-0.71	-0.74	3	3	0	2400	2400	0
6/28/2024 11:19	55001	NEWP_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
6/28/2024 11:19	55002	NEWP_T1	8	8	0	0.95	1.03	0.08	-0.07	-0.06	0	0	0	0	0	0
6/28/2024 11:20	55001	NEWP_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
6/28/2024 11:20	55002	NEWP_T1	8	8	0	0.95	1.03	0.08	-0.14	-0.13	0	0	0	0	0	0
6/28/2024 11:21	55002	NEWP_T1	8	8	0	0.95	1.03	0.08	-0.07	-0.06	0	0	0	0	0	0
6/28/2024 11:21	55001	NEWP_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
6/28/2024 11:24	15001	BLMO_T1	3	4	1	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
6/28/2024 11:25	56802	BENV_T2	3	2	-1	0.3	0.3	0	-0.32	-0.3	0	0	0	0	0	0
6/28/2024 11:26	15001	BLMO_T1	3	4	1	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
6/28/2024 11:28	24105	EHAZ_T1	4	4	0	6.6	6.58	-0.02	0	0	0	0	0	0	0	0
6/28/2024 11:28	24101	EHAZ_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/28/2024 11:28	24103	EHAZ_T1	0	0	0	0	0	0	-1.2	-1.24	0	0	0	0	0	0
6/28/2024 11:28	24104	EHAZ_T1	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
6/28/2024 11:28	63401	HONY_T1	0	0	0	0	0	0	1.1	1.11	0	0	0	0	0	0
6/28/2024 11:29	23403	HONE_T1	2	1	-1	0.35	0.2	-0.15	-0.04	-0.15	0	0	0	0	0	0
6/28/2024 11:29	15001	BLMO_T1	3	4	1	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
6/28/2024 11:32	63401	HONY_T1	0	0	0	0	0	0	2.2	2.22	0	0	0	0	0	0
6/28/2024 11:34	23102	MOSC_T2	0	0	0	0	0	0	0.44	0.46	1	1	0	900	900	0
6/28/2024 11:34	43402	BENT_T1	8	10	2	0.49	0.6	0.11	0.18	0.18	0	0	0	0	0	0
6/28/2024 11:34	52501	PROG_T1	0	0	0	0	0	0	0.36	0.35	1	1	0	300	300	0
6/28/2024 11:34	23101	MOSC_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/28/2024 11:35	58402	MORO_T1	0	0	0	0	0	0	-0.74	-0.77	3	3	0	2400	2400	0
6/28/2024 11:36	66203	SISP_T2	0	0	0	0	0	0	-0.07	0.04	2	2	0	1800	1800	0
6/28/2024 11:36	43402	BENT_T1	8	10	2	0.49	0.6	0.11	0.18	0.18	0	0	0	0	0	0
6/28/2024 11:37	12601	MACA_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
6/28/2024 11:37	12604	MACA_T1	0	0	0	0	0	0	1.17	1.2	0	0	0	0	0	0
6/28/2024 11:39	16301	ALPA_T1	1	0	-1	0.5	0	-0.5	0.08	0.1	0	0	0	0	0	0
6/28/2024 11:39	15001	BLMO_T1	3	4	1	0.73	0.63	-0.1	0	0	0	0	0	0	0	0
6/28/2024 11:41	60801	BUCK_T1	0	2	2	0	0.2	0.2	-0.4	-0.45	1	1	0	600	600	0
6/28/2024 11:42	61301	EARL_T1	0	0	0	0	0	0	-1.15	-1.19	2	2	0	1800	1800	0
6/28/2024 11:42	67605	WARW_T1	4	2	-2	0.55	0.8	0.25	-0.73	-0.73	0	0	0	0	0	0
6/28/2024 11:42	67603	WARW_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
6/28/2024 11:43	46801	HEPB_T2	2	2	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
6/28/2024 11:43	46803	HEPB_T2	1	1	0	1.2	1.1	-0.1	0.63	0.64	0	0	0	0	0	0
6/28/2024 11:45	46803	HEPB_T2	1	4	3	0.8	0.48	-0.32	0	0	0	0	0	0	0	0
6/28/2024 11:45	60801	BUCK_T1	0	4	4	0	0.25	0.25	-0.4	-0.45	1	1	0	600	600	0
6/28/2024 11:45	46801	HEPB_T2	2	2	0	0.4	0.45	0.05	0.94	0.94	0	0	0	0	0	0
6/28/2024 11:47	46802	HEPB_T1	1	3	2	0.1	0.2	0.1	-0.04	-0.03	0	0	0	0	0	0
6/28/2024 11:48	57303	MOAL_T2	1	1	0	7.7	7.7	0	0	0	0	0	0	0	0	0
6/28/2024 11:48	40101	HUNT_T2	0	2	2	0	0.5	0.5	-0.16	-0.09	0	0	0	0	0	0
6/28/2024 11:48	57304	MOAL_T2	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
6/28/2024 11:49	57303	MOAL_T2	1	1	0	7.7	7.7	0	0	0	0	0	0	0	0	0
6/28/2024 11:49	64101	REFR_T1	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
6/28/2024 11:49	57302	MOAL_T2	0	0	0	0	0	0	-1.13	-1.23	1	1	0	1200	1200	0
6/28/2024 11:50	64101	REFR_T1	0	0	0	0	0	0	0.88	0.92	0	0	0	0	0	0
6/28/2024 11:50	67002	STHI_T2	6	7	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
6/28/2024 11:50	67001	STHI_T2	6	6	0	0.2	0.25	0.05	0.29	0.31	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/28/2024 11:51	20601	GRWO_T2	1	1	0	0.4	0.6	0.2	0.83	0.6	0	0	0	0	0	0
6/28/2024 11:51	64101	REFR_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
6/28/2024 11:51	67001	STHI_T2	6	6	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
6/28/2024 11:51	20603	GRWO_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
6/28/2024 11:51	58402	MORO_T1	0	0	0	0	0	0	-0.77	-0.81	3	3	0	2400	2400	0
6/28/2024 11:51	67002	STHI_T2	6	7	1	0.2	0.27	0.07	1.05	1.06	0	0	0	0	0	0
6/28/2024 11:52	67001	STHI_T2	6	6	0	0.2	0.25	0.05	0.31	0.32	0	0	0	0	0	0
6/28/2024 11:52	67002	STHI_T2	6	7	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
6/28/2024 11:53	67002	STHI_T2	6	7	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
6/28/2024 11:53	67001	STHI_T2	6	6	0	0.2	0.25	0.05	0.31	0.32	0	0	0	0	0	0
6/28/2024 11:53	64101	REFR_T1	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
6/28/2024 11:54	55101	WERT_T1	0	0	0	0	0	0	-1.87	-2.05	4	4	0	3300	3300	0
6/28/2024 11:54	64101	REFR_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
6/28/2024 11:56	61102	BERK_T5	0	0	0	0	0	0	1.65	1.49	2	2	0	600	600	0
6/28/2024 11:56	55101	WERT_T1	0	0	0	0	0	0	-3.75	-4.1	8	8	0	6600	6600	0
6/28/2024 11:56	61101	BERK_T5	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/28/2024 11:57	43402	BENT_T1	10	12	2	0.52	0.67	0.15	0.18	0.18	0	0	0	0	0	0
6/28/2024 11:57	43401	BENT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 11:58	43401	BENT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 11:58	43402	BENT_T1	10	12	2	0.52	0.67	0.15	0.18	0.18	0	0	0	0	0	0
6/28/2024 11:59	40101	HUNT_T2	0	2	2	0	0.5	0.5	-0.09	0	0	0	0	0	0	0
6/28/2024 12:01	44301	BEAV_T2	3	5	2	0.37	0.2	-0.17	-0.18	-0.29	2	1	-1	1500	600	-900
6/28/2024 12:01	58402	MORO_T1	0	0	0	0	0	0	-0.81	-0.84	3	3	0	2400	2400	0
6/28/2024 12:01	28403	HART_T2	0	0	0	0	0	0	-0.6	-0.57	1	1	0	900	900	0
6/28/2024 12:01	44302	BEAV_T2	2	2	0	0.7	1	0.3	0	0	0	0	0	0	0	0
6/28/2024 12:04	43802	SWIL_T1	0	0	0	0	0	0	0.02	0.03	1	1	0	600	600	0
6/28/2024 12:04	43801	SWIL_T1	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
6/28/2024 12:08	55105	WERT_T1	0	0	0	0	0	0	-0.02	-0.01	1	1	0	900	900	0
6/28/2024 12:09	60801	BUCK_T1	2	4	2	0.2	0.25	0.05	-0.61	-0.61	1	1	0	600	600	0
6/28/2024 12:09	67303	WYOM_T2	1	0	-1	0.1	0	-0.1	-0.63	-0.67	0	0	0	0	0	0
6/28/2024 12:10	67303	WYOM_T2	1	0	-1	0.1	0	-0.1	-0.63	-0.67	0	0	0	0	0	0
6/28/2024 12:10	67702	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/28/2024 12:10	67703	WERN_T2	1	0	-1	0.1	0	-0.1	-0.01	-0.01	1	1	0	900	900	0
6/28/2024 12:11	67805	WLAN_T1	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
6/28/2024 12:11	67804	WLAN_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/28/2024 12:11	60801	BUCK_T1	2	4	2	0.2	0.25	0.05	-0.61	-0.61	1	1	0	600	600	0
6/28/2024 12:11	67801	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 12:11	44801	EDAN_T2	2	2	0	0.35	0.45	0.1	0.71	0.72	0	0	0	0	0	0
6/28/2024 12:13	47001	HUGH_T2	3	5	2	7.27	5.26	-2.01	-0.46	-0.5	0	0	0	0	0	0
6/28/2024 12:13	63401	HONY_T1	0	1	1	0	0	0	1.16	1.06	0	0	0	0	0	0
6/28/2024 12:16	47001	HUGH_T2	5	5	0	5.24	5.16	-0.08	-0.46	-0.5	0	0	0	0	0	0
6/28/2024 12:16	40902	JESH_T1	0	0	0	0	0	0	-0.75	-0.73	2	2	0	1200	1200	0
6/28/2024 12:16	40901	JESH_T1	1	1	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
6/28/2024 12:17	58402	MORO_T1	0	0	0	0	0	0	-0.84	-0.84	3	3	0	2400	2400	0
6/28/2024 12:17	16902	MECK_T1	5	0	-5	0.3	0.34	0.04	0.12	0.12	0	0	0	0	0	0
6/28/2024 12:17	16901	MECK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/28/2024 12:17	40902	JESH_T1	0	0	0	0	0	0	-0.75	-0.73	2	2	0	1200	1200	0
6/28/2024 12:17	24702	FLND_T2	3	3	0	0.4	0.43	0.03	1.16	1.17	1	1	0	1200	1200	0
6/28/2024 12:17	40901	JESH_T1	1	1	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
6/28/2024 12:18	16302	ALPA_T2	1	1	0	0.4	0.3	-0.1	-0.06	-0.06	0	0	0	0	0	0
6/28/2024 12:19	64101	REFR_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
6/28/2024 12:20	16901	MECK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/28/2024 12:20	16902	MECK_T1	5	5	0	0.3	0.34	0.04	0.23	0.24	0	0	0	0	0	0
6/28/2024 12:20	64101	REFR_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
6/28/2024 12:20	13503	MCMI_T2	12	15	3	0.58	0.62	0.04	0.11	0.12	0	0	0	0	0	0
6/28/2024 12:21	16902	MECK_T1	5	5	0	0.3	0.34	0.04	0.12	0.12	0	0	0	0	0	0
6/28/2024 12:21	64101	REFR_T1	0	0	0	0	0	0	0.75	0.79	0	0	0	0	0	0
6/28/2024 12:21	16901	MECK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/28/2024 12:22	56802	BENV_T2	0	1	1	0	0.2	0.2	-0.25	-0.23	0	0	0	0	0	0
6/28/2024 12:22	64101	REFR_T1	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
6/28/2024 12:22	56803	BENV_T1	2	1	-1	1.5	2.4	0.9	0	0	0	0	0	0	0	0
6/28/2024 12:22	56801	BENV_T1	8	9	1	0.48	0.64	0.16	-0.51	-0.49	1	1	0	600	600	0
6/28/2024 12:23	56801	BENV_T1	8	9	1	0.48	0.64	0.16	-1.01	-0.98	2	2	0	1200	1200	0
6/28/2024 12:23	56803	BENV_T1	2	1	-1	1.5	2.4	0.9	0	0	0	0	0	0	0	0
6/28/2024 12:23	64101	REFR_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
6/28/2024 12:24	56801	BENV_T1	8	9	1	0.48	0.64	0.16	-0.51	-0.49	1	1	0	600	600	0
6/28/2024 12:24	64101	REFR_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
6/28/2024 12:24	56803	BENV_T1	2	1	-1	1.5	2.4	0.9	0	0	0	0	0	0	0	0
6/28/2024 12:26	56801	BENV_T1	8	9	1	0.48	0.64	0.16	-0.51	-0.49	1	1	0	600	600	0
6/28/2024 12:26	56803	BENV_T1	2	1	-1	1.5	2.4	0.9	0	0	0	0	0	0	0	0
6/28/2024 12:27	45303	WBER_T2	1	82	81	3.2	0.62	-2.58	0	0	0	0	0	0	0	0
6/28/2024 12:27	45301	WBER_T2	0	0	0	0	0	0	0.61	0.6	1	1	0	1200	1200	0
6/28/2024 12:28	45802	HEGI_T2	0	10	10	0	0.45	0.45	1.17	1.09	1	1	0	300	300	0
6/28/2024 12:30	41301	FISH_T1	3	3	0	2	1.77	-0.23	-0.02	-0.02	0	0	0	0	0	0
6/28/2024 12:30	41303	FISH_T1	1	2	1	2.3	2.1	-0.2	0	0	0	0	0	0	0	0
6/28/2024 12:31	13503	MCMI_T2	10	15	5	0.69	0.59	-0.1	0.12	0.12	0	0	0	0	0	0
6/28/2024 12:33	64204	KINZ_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/28/2024 12:33	51002	NHAR_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/28/2024 12:33	51004	NHAR_T1	2	2	0	3.5	3.35	-0.15	-1.46	-1.43	0	0	0	0	0	0
6/28/2024 12:33	52403	GRPA_T2	0	2	2	0	0.2	0.2	0.4	0.44	0	0	0	0	0	0
6/28/2024 12:33	64201	KINZ_T1	0	0	0	0	0	0	-0.28	-0.17	4	4	0	2100	2100	0
6/28/2024 12:33	52402	GRPA_T2	1	7	6	0.5	0.31	-0.19	0	0	0	0	0	0	0	0
6/28/2024 12:34	65901	SAKR_T2	1	2	1	7.2	4.1	-3.1	-0.77	-0.86	2	2	0	1500	1500	0
6/28/2024 12:36	59202	THOM_T1	5	8	3	0.5	0.46	-0.04	0	0	0	0	0	0	0	0
6/28/2024 12:37	58202	NEWV_T1	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
6/28/2024 12:40	43402	BENT_T1	7	5	-2	0.57	0.58	0.01	0.18	0.18	0	0	0	0	0	0
6/28/2024 12:40	43401	BENT_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/28/2024 12:41	43402	BENT_T1	7	5	-2	0.57	0.58	0.01	0.18	0.18	0	0	0	0	0	0
6/28/2024 12:41	43401	BENT_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/28/2024 12:43	52402	GRPA_T2	1	7	6	0.5	0.31	-0.19	0	0	0	0	0	0	0	0
6/28/2024 12:43	53903	HALI_T2	5	8	3	0.68	0.73	0.05	0.04	0.05	0	0	0	0	0	0
6/28/2024 12:43	53902	HALI_T2	3	3	0	1.63	2.07	0.44	0	0	0	0	0	0	0	0
6/28/2024 12:43	53901	HALI_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/28/2024 12:43	52403	GRPA_T2	0	2	2	0	0.2	0.2	0.44	0.49	0	0	0	0	0	0
6/28/2024 12:45	53903	HALI_T2	8	5	-3	0.73	0.82	0.09	0.04	0.05	0	0	0	0	0	0
6/28/2024 12:45	53901	HALI_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
6/28/2024 12:45	53902	HALI_T2	3	3	0	2.07	1.9	-0.17	0	0	0	0	0	0	0	0
6/28/2024 12:46	56504	ROCK_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/28/2024 12:46	53902	HALI_T2	3	3	0	2.07	1.9	-0.17	0	0	0	0	0	0	0	0
6/28/2024 12:46	53903	HALI_T2	8	5	-3	0.73	0.82	0.09	0.09	0.1	0	0	0	0	0	0
6/28/2024 12:46	53901	HALI_T2	3	0	-3	0.17	0	-0.17	-1.15	-1.14	0	0	0	0	0	0
6/28/2024 12:46	40101	HUNT_T2	5	12	7	0.64	0.78	0.14	-0.01	-0.02	0	0	0	0	0	0
6/28/2024 12:46	56501	ROCK_T2	5	3	-2	0.5	0.43	-0.07	-0.79	-0.77	0	0	0	0	0	0
6/28/2024 12:47	13503	MCMI_T2	15	7	-8	0.59	0.3	-0.29	0.12	0.13	0	0	0	0	0	0
6/28/2024 12:47	47802	MOCA_T2	2	2	0	0.65	0.7	0.05	-0.76	-0.62	0	0	0	0	0	0
6/28/2024 12:48	45801	HEGI_T1	0	0	0	0	0	0	0.21	0.25	1	1	0	900	900	0
6/28/2024 12:48	55001	NEWP_T1	2	1	-1	0.65	0.6	-0.05	0.11	0.13	0	0	0	0	0	0
6/28/2024 12:48	55002	NEWP_T1	4	4	0	0.93	0.35	-0.58	0	0	0	0	0	0	0	0
6/28/2024 12:49	64204	KINZ_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/28/2024 12:49	64201	KINZ_T1	0	0	0	0	0	0	-0.17	0	4	4	0	2100	2100	0
6/28/2024 12:50	11205	ELHE_T1	0	531	531	0	7.51	7.51	-0.85	-0.85	1	1	0	1200	1200	0
6/28/2024 12:51	55002	NEWP_T1	4	4	0	0.93	0.35	-0.58	-0.02	-0.01	0	0	0	0	0	0
6/28/2024 12:51	52004	LING_T2	1	1	0	0.7	0.5	-0.2	0.53	0.54	0	0	0	0	0	0
6/28/2024 12:51	55001	NEWP_T1	2	1	-1	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
6/28/2024 12:51	52002	LING_T2	0	0	0	0	0	0	0.54	0.57	0	0	0	0	0	0
6/28/2024 12:52	59102	WALK_T2	2	2	0	0.65	0.45	-0.2	0.62	0.62	0	0	0	0	0	0
6/28/2024 12:52	55001	NEWP_T1	2	1	-1	0.65	0.6	-0.05	0.13	0.14	0	0	0	0	0	0
6/28/2024 12:52	13201	PALM_T1	3	10	7	0.47	0.37	-0.1	-0.22	-0.2	0	0	0	0	0	0
6/28/2024 12:52	55002	NEWP_T1	4	4	0	0.93	0.35	-0.58	0	0	0	0	0	0	0	0
6/28/2024 12:53	59101	WALK_T2	0	0	0	0	0	0	-0.25	-0.22	0	0	0	0	0	0
6/28/2024 12:53	52002	LING_T2	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
6/28/2024 12:53	59102	WALK_T2	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
6/28/2024 12:53	52004	LING_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/28/2024 12:54	61102	BERK_T5	0	0	0	0	0	0	0.85	0.93	1	1	0	300	300	0
6/28/2024 12:54	59102	WALK_T2	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
6/28/2024 12:54	59101	WALK_T2	0	0	0	0	0	0	-0.25	-0.22	0	0	0	0	0	0
6/28/2024 12:55	49803	UNIV_T1	0	1	1	0	0.2	0.2	-0.61	-0.52	0	0	0	0	0	0
6/28/2024 12:56	61102	BERK_T5	0	0	0	0	0	0	0.85	0.93	1	1	0	300	300	0
6/28/2024 12:56	59101	WALK_T2	0	0	0	0	0	0	-0.25	-0.22	0	0	0	0	0	0
6/28/2024 12:56	20401	ASHF_T2	4	5	1	0.68	0.9	0.22	0	0	0	0	0	0	0	0
6/28/2024 12:56	20403	ASHF_T2	5	7	2	0.62	0.47	-0.15	0.81	0.82	0	0	0	0	0	0
6/28/2024 12:56	20402	ASHF_T2	6	6	0	0.85	0	-0.85	0	0	0	0	0	0	0	0
6/28/2024 12:56	59102	WALK_T2	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
6/28/2024 12:57	44801	EDAN_T2	2	1	-1	0.65	0.3	-0.35	0.74	0.75	0	0	0	0	0	0
6/28/2024 12:58	20402	ASHF_T2	6	6	0	0.85	0	-0.85	0	0	0	0	0	0	0	0
6/28/2024 12:58	20401	ASHF_T2	4	5	1	0.68	0.9	0.22	0	0	0	0	0	0	0	0
6/28/2024 12:58	20403	ASHF_T2	5	7	2	0.62	0.47	-0.15	0.81	0.82	0	0	0	0	0	0
6/28/2024 12:59	44801	EDAN_T2	2	1	-1	0.65	0.3	-0.35	2.23	2.26	0	0	0	0	0	0
6/28/2024 13:01	61002	DONV_T2	0	0	0	0	0	0	-0.59	-0.53	2	2	0	1200	1200	0
6/28/2024 13:02	13503	MCMI_T2	6	9	3	0.23	0.46	0.23	0.13	0.13	0	0	0	0	0	0
6/28/2024 13:02	43402	BENT_T1	5	15	10	0.56	0.56	0	0.18	0.18	0	0	0	0	0	0
6/28/2024 13:03	43402	BENT_T1	5	15	10	0.56	0.56	0	0.18	0.18	0	0	0	0	0	0
6/28/2024 13:04	40601	PIGR_T1	40	94	54	0.35	0.29	-0.06	0	0	0	0	0	0	0	0
6/28/2024 13:04	40603	PIGR_T1	3	3	0	0.13	0.43	0.3	0.61	0.63	0	0	0	0	0	0
6/28/2024 13:06	63602	LETO_T1	0	0	0	0	0	0	-0.41	-0.39	1	1	0	600	600	0
6/28/2024 13:07	63602	LETO_T1	0	0	0	0	0	0	-0.41	-0.39	1	1	0	600	600	0
6/28/2024 13:08	63602	LETO_T1	0	0	0	0	0	0	-0.41	-0.39	1	1	0	600	600	0
6/28/2024 13:08	67203	TEHI_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
6/28/2024 13:08	67201	TEHI_T1	0	0	0	0	0	0	-0.16	-0.01	2	2	0	1500	1500	0
6/28/2024 13:09	52004	LING_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/28/2024 13:09	52002	LING_T2	0	0	0	0	0	0	0.58	0.62	0	0	0	0	0	0
6/28/2024 13:10	14204	EALL_T2	0	0	0	0	0	0	0.25	0.21	1	1	0	1200	1200	0
6/28/2024 13:12	60801	BUCK_T1	1	0	-1	0.1	0	-0.1	-0.6	-0.6	1	1	0	600	600	0
6/28/2024 13:15	44801	EDAN_T2	1	3	2	0.3	0.7	0.4	0.75	0.76	0	0	0	0	0	0
6/28/2024 13:15	45801	HEGI_T1	0	0	0	0	0	0	0.27	0.3	1	1	0	900	900	0
6/28/2024 13:21	43301	WATS_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/28/2024 13:21	43304	WATS_T2	0	0	0	0	0	0	-0.26	-0.16	0	0	0	0	0	0
6/28/2024 13:23	43304	WATS_T2	0	0	0	0	0	0	-0.26	-0.16	0	0	0	0	0	0
6/28/2024 13:23	43301	WATS_T2	1	1	0	0.2	0.5	0.3	-0.34	-0.33	1	1	0	900	900	0
6/28/2024 13:24	43301	WATS_T2	1	1	0	0.2	0.5	0.3	-0.34	-0.33	1	1	0	900	900	0
6/28/2024 13:25	25603	ARRO_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
6/28/2024 13:27	62102	ELAN_T1	1	1	0	0.2	0.6	0.4	1.24	1.33	0	0	0	0	0	0
6/28/2024 13:27	62105	ELAN_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/28/2024 13:27	26401	INOR_T1	3	5	2	2.77	2.26	-0.51	0	0	0	0	0	0	0	0
6/28/2024 13:27	26402	INOR_T1	0	1	1	0	0.9	0.9	-1.61	-1.62	1	1	0	600	600	0
6/28/2024 13:30	52403	GRPA_T2	2	3	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/28/2024 13:30	52402	GRPA_T2	1	4	3	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/28/2024 13:30	52404	GRPA_T2	0	0	0	0	0	0	0.16	0.09	0	0	0	0	0	0
6/28/2024 13:35	15602	NSTR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 13:35	15603	NSTR_T2	1	1	0	0.5	0.4	-0.1	-0.44	-0.44	0	0	0	0	0	0
6/28/2024 13:35	15601	NSTR_T2	5	5	0	0.4	0.66	0.26	0	0	0	0	0	0	0	0
6/28/2024 13:36	16402	MOPO_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
6/28/2024 13:36	16406	MOPO_T1	0	0	0	0	0	0	-0.26	-0.26	1	1	0	1200	1200	0
6/28/2024 13:36	16401	MOPO_T1	6	5	-1	0.67	0.64	-0.03	0	0	0	0	0	0	0	0
6/28/2024 13:37	17002	RIRO_T2	3	3	0	0.57	0.57	0	0.85	0.87	0	0	0	0	0	0
6/28/2024 13:38	54602	SUMM_T2	0	0	0	0	0	0	-2.75	-2.73	1	1	0	600	600	0
6/28/2024 13:38	54601	SUMM_T2	0	0	0	0	0	0	0	0	2	2	0	2100	2100	0
6/28/2024 13:41	44801	EDAN_T2	2	2	0	1.35	0.5	-0.85	0.78	0.79	0	0	0	0	0	0
6/28/2024 13:42	46201	DANV_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/28/2024 13:42	46203	DANV_T2	3	7	4	0.6	0.56	-0.04	-1.72	-1.73	0	0	0	0	0	0
6/28/2024 13:42	46206	DANV_T2	2	2	0	1.6	2.1	0.5	0	0	0	0	0	0	0	0
6/28/2024 13:43	24702	FLND_T2	2	3	1	0.5	1.07	0.57	0.81	0.89	1	1	0	1200	1200	0
6/28/2024 13:43	46206	DANV_T2	2	2	0	1.6	2.1	0.5	0	0	0	0	0	0	0	0
6/28/2024 13:43	46203	DANV_T2	3	7	4	0.6	0.56	-0.04	-1.72	-1.73	0	0	0	0	0	0
6/28/2024 13:43	46201	DANV_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/28/2024 13:45	28805	LAKE_T1	1	1	0	0.7	0.7	0	-0.15	-0.15	0	0	0	0	0	0
6/28/2024 13:45	47001	HUGH_T2	3	3	0	8.13	8.33	0.2	-0.37	-0.36	0	0	0	0	0	0
6/28/2024 13:45	43402	BENT_T1	8	10	2	0.48	0.62	0.14	0.18	0.18	0	0	0	0	0	0
6/28/2024 13:46	43402	BENT_T1	8	10	2	0.48	0.62	0.14	0.18	0.18	0	0	0	0	0	0
6/28/2024 13:46	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/28/2024 13:47	28805	LAKE_T1	1	1	0	0.7	0.7	0	-0.15	-0.15	0	0	0	0	0	0
6/28/2024 13:50	59003	MIFF_T1	1	0	-1	0.1	0	-0.1	-0.74	-0.81	0	0	0	0	0	0
6/28/2024 13:50	59002	MIFF_T1	5	1	-4	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/28/2024 13:50	59001	MIFF_T1	1	1	0	0.7	1.7	1	0	0	0	0	0	0	0	0
6/28/2024 13:51	52004	LING_T2	0	1	1	0	0.5	0.5	0.59	0.61	0	0	0	0	0	0
6/28/2024 13:51	58003	WCAR_T1	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/28/2024 13:51	56801	BENV_T1	3	4	1	0.23	0.35	0.12	-0.42	-0.41	1	1	0	600	600	0
6/28/2024 13:51	58001	WCAR_T1	1	4	3	0.5	0.38	-0.12	0.31	0.14	0	0	0	0	0	0
6/28/2024 13:51	56802	BENV_T2	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
6/28/2024 13:51	52002	LING_T2	3	4	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/28/2024 13:51	56803	BENV_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 13:52	60201	ATGL_T2	0	0	0	0	0	0	-0.02	-0.07	2	2	0	900	900	0
6/28/2024 13:56	60201	ATGL_T2	0	0	0	0	0	0	-0.02	-0.07	2	2	0	900	900	0
6/28/2024 13:56	58001	WCAR_T1	1	4	3	0.5	0.38	-0.12	0.14	0.15	0	0	0	0	0	0
6/28/2024 13:56	58003	WCAR_T1	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
6/28/2024 14:01	22903	HARW_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/28/2024 14:01	22901	HARW_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
6/28/2024 14:01	22904	HARW_T1	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
6/28/2024 14:05	13606	RICH_T2	2	1	-1	4.15	8	3.85	1.51	1.57	0	0	0	0	0	0
6/28/2024 14:06	64101	REFR_T1	1	3	2	0.1	0	-0.1	0.4	0.4	0	0	0	0	0	0
6/28/2024 14:07	64101	REFR_T1	1	3	2	0.1	0	-0.1	0.79	0.8	0	0	0	0	0	0
6/28/2024 14:07	57004	WHHI_T2	0	0	0	0	0	0	-0.65	-0.56	0	0	0	0	0	0
6/28/2024 14:07	54601	SUMM_T2	0	0	0	0	0	0	0	0	4	4	0	4200	4200	0
6/28/2024 14:08	64101	REFR_T1	1	3	2	0.1	0	-0.1	0.79	0.8	0	0	0	0	0	0
6/28/2024 14:08	57006	WHHI_T2	0	0	0	0	0	0	1.95	1.9	2	2	0	1200	1200	0
6/28/2024 14:08	24801	VALM_T1	2	2	0	0.45	0.35	-0.1	-0.1	-0.1	0	0	0	0	0	0
6/28/2024 14:09	64101	REFR_T1	1	3	2	0.1	0	-0.1	0.4	0.4	0	0	0	0	0	0
6/28/2024 14:09	55101	WERT_T1	0	0	0	0	0	0	-1.54	-1.73	4	4	0	3300	3300	0
6/28/2024 14:10	64101	REFR_T1	1	3	2	0.1	0	-0.1	0.4	0.4	0	0	0	0	0	0
6/28/2024 14:11	55105	WERT_T1	0	0	0	0	0	0	0.28	0.31	1	1	0	900	900	0
6/28/2024 14:11	64101	REFR_T1	1	3	2	0.1	0	-0.1	0.79	0.8	0	0	0	0	0	0
6/28/2024 14:12	24105	EHAZ_T1	4	4	0	6.68	6.68	0	0	0	0	0	0	0	0	0
6/28/2024 14:12	24104	EHAZ_T1	1	1	0	0.2	0.3	0.1	-0.8	-0.79	1	1	0	1200	1200	0
6/28/2024 14:12	24102	EHAZ_T1	2	2	0	0.45	1	0.55	0	0	0	0	0	0	0	0
6/28/2024 14:12	24101	EHAZ_T1	6	2	-4	6.7	0	-6.7	0	0	0	0	0	0	0	0
6/28/2024 14:19	66203	SISP_T2	0	1	1	0	0	0	-0.25	-0.3	2	2	0	1800	1800	0
6/28/2024 14:20	52002	LING_T2	3	0	-3	0.3	0	-0.3	0.68	0.71	0	0	0	0	0	0
6/28/2024 14:20	52001	LING_T1	0	1	1	0	0	0	0.62	0.64	0	0	0	0	0	0
6/28/2024 14:20	52004	LING_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
6/28/2024 14:21	63401	HONY_T1	0	0	0	0	0	0	1.06	1.06	0	0	0	0	0	0
6/28/2024 14:24	48302	ORWI_T2	2	2	0	0.8	0.85	0.05	-0.21	-0.21	0	0	0	0	0	0
6/28/2024 14:29	61506	EPET_T2	0	0	0	0	0	0	-1.12	-1.15	2	2	0	1800	1800	0
6/28/2024 14:29	61501	EPET_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
6/28/2024 14:30	52402	GRPA_T2	3	4	1	0.13	0.2	0.07	0	0	0	0	0	0	0	0
6/28/2024 14:30	52404	GRPA_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
6/28/2024 14:30	52403	GRPA_T2	5	11	6	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
6/28/2024 14:31	52403	GRPA_T2	5	11	6	0.56	0.5	-0.06	0.53	0.52	0	0	0	0	0	0
6/28/2024 14:31	52402	GRPA_T2	3	4	1	0.13	0.2	0.07	0	0	0	0	0	0	0	0
6/28/2024 14:32	63401	HONY_T1	0	0	0	0	0	0	1.06	1.06	0	0	0	0	0	0
6/28/2024 14:33	58003	WCAR_T1	1	3	2	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/28/2024 14:33	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 14:33	60502	NMAN_T2	0	0	0	0	0	0	0.44	0.5	0	0	0	0	0	0
6/28/2024 14:33	60501	NMAN_T2	3	3	0	4.1	3.67	-0.43	0	0	0	0	0	0	0	0
6/28/2024 14:33	58001	WCAR_T1	0	4	4	0	0.33	0.33	0.23	0.22	0	0	0	0	0	0
6/28/2024 14:34	40603	PIGR_T1	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
6/28/2024 14:34	49804	UNIV_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/28/2024 14:34	40601	PIGR_T1	72	37	-35	0.29	0.31	0.02	0	0	0	0	0	0	0	0
6/28/2024 14:34	49803	UNIV_T1	1	0	-1	0.2	0	-0.2	-0.47	-0.48	0	0	0	0	0	0
6/28/2024 14:34	40602	PIGR_T1	0	1	1	0	0	0	1.26	1.21	0	0	0	0	0	0
6/28/2024 14:35	52002	LING_T2	0	1	1	0	0	0	0.71	0.74	0	0	0	0	0	0
6/28/2024 14:35	52004	LING_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
6/28/2024 14:36	41902	REED_T1	1	1	0	1.3	1.4	0.1	0.6	0.51	1	1	0	900	900	0
6/28/2024 14:36	41901	REED_T1	10	9	-1	0.34	0.47	0.13	0	0	0	0	0	0	0	0
6/28/2024 14:38	60502	NMAN_T2	0	0	0	0	0	0	0.5	0.53	0	0	0	0	0	0
6/28/2024 14:38	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 14:38	60501	NMAN_T2	3	3	0	4.1	3.67	-0.43	0	0	0	0	0	0	0	0
6/28/2024 14:39	22101	EDEL_T2	0	0	0	0	0	0	0.93	0.93	1	1	0	1200	1200	0
6/28/2024 14:41	48302	ORWI_T2	2	2	0	0.85	0.65	-0.2	0	0	0	0	0	0	0	0
6/28/2024 14:41	67903	WNHO_T1	0	0	0	0	0	0	1.41	1.4	1	1	0	1200	1200	0
6/28/2024 14:41	48303	ORWI_T2	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
6/28/2024 14:42	24104	EHAZ_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/28/2024 14:42	24102	EHAZ_T1	2	1	-1	0.75	0	-0.75	0.88	0.86	0	0	0	0	0	0
6/28/2024 14:42	24105	EHAZ_T1	4	4	0	6.68	6.78	0.1	0	0	0	0	0	0	0	0
6/28/2024 14:43	24702	FLND_T2	4	3	-1	0.93	0.93	0	0.45	0.65	1	1	0	1200	1200	0
6/28/2024 14:45	20601	GRWO_T2	89	86	-3	0.58	0.41	-0.17	0.9	0.88	0	0	0	0	0	0
6/28/2024 14:47	64701	LITI_T1	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
6/28/2024 14:48	40101	HUNT_T2	29	36	7	0.48	0.36	-0.12	0.12	0.14	0	0	0	0	0	0
6/28/2024 14:50	40601	PIGR_T1	37	35	-2	0.31	0.25	-0.06	0	0	0	0	0	0	0	0
6/28/2024 14:50	40603	PIGR_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/28/2024 14:50	52001	LING_T1	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
6/28/2024 14:50	40602	PIGR_T1	0	1	1	0	0	0	1.21	1.2	0	0	0	0	0	0
6/28/2024 14:51	64101	REFR_T1	2	4	2	0.1	0	-0.1	0.4	0.41	0	0	0	0	0	0
6/28/2024 14:52	64101	REFR_T1	2	4	2	0.1	0	-0.1	0.4	0.41	0	0	0	0	0	0
6/28/2024 14:53	64101	REFR_T1	2	4	2	0.1	0	-0.1	0.4	0.41	0	0	0	0	0	0
6/28/2024 14:54	64101	REFR_T1	2	4	2	0.1	0	-0.1	0.4	0.41	0	0	0	0	0	0
6/28/2024 14:55	64101	REFR_T1	2	4	2	0.1	0	-0.1	0.4	0.41	0	0	0	0	0	0
6/28/2024 14:56	43301	WATS_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/28/2024 14:56	43304	WATS_T2	0	0	0	0	0	0	-0.26	-0.45	0	0	0	0	0	0
6/28/2024 14:56	64101	REFR_T1	2	4	2	0.1	0	-0.1	0.4	0.41	0	0	0	0	0	0
6/28/2024 14:57	61101	BERK_T5	0	0	0	0	0	0	-0.41	-0.51	0	0	0	0	0	0
6/28/2024 15:04	56801	BENV_T1	1	15	14	0.3	0.73	0.43	-0.34	-0.31	1	1	0	600	600	0
6/28/2024 15:04	23202	HIRU_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
6/28/2024 15:04	23203	HIRU_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/28/2024 15:04	56803	BENV_T1	3	24	21	2.13	0.53	-1.6	0.64	-2.9	0	1	1	0	900	900
6/28/2024 15:04	23201	HIRU_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
6/28/2024 15:05	56504	ROCK_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
6/28/2024 15:05	56803	BENV_T1	3	24	21	2.13	0.53	-1.6	0	0	0	0	0	0	0	0
6/28/2024 15:05	56501	ROCK_T2	1	1190	1189	0.9	6.64	5.74	0	0	0	0	0	0	0	0
6/28/2024 15:05	56801	BENV_T1	1	15	14	0.3	0.73	0.43	-0.34	-0.31	1	1	0	600	600	0
6/28/2024 15:07	67605	WARW_T1	1	3	2	0.8	0.67	-0.13	-0.88	-0.86	0	0	0	0	0	0
6/28/2024 15:07	67603	WARW_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/28/2024 15:12	43402	BENT_T1	8	10	2	0.55	0.57	0.02	0.17	0.17	0	0	0	0	0	0
6/28/2024 15:13	43402	BENT_T1	8	10	2	0.55	0.57	0.02	0.17	0.17	0	0	0	0	0	0
6/28/2024 15:13	40801	EXCH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 15:13	40802	EXCH_T2	1	1	0	0.8	1.1	0.3	-0.37	-0.28	0	0	0	0	0	0
6/28/2024 15:14	40802	EXCH_T2	1	1	0	0.8	1.1	0.3	-0.73	-0.56	0	0	0	0	0	0
6/28/2024 15:14	56501	ROCK_T2	1	1190	1189	0.9	6.64	5.74	0	0	0	0	0	0	0	0
6/28/2024 15:14	40801	EXCH_T2	0	2	2	0	0.1	0.1	-0.05	-0.05	1	1	0	1200	1200	0
6/28/2024 15:14	56504	ROCK_T2	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
6/28/2024 15:15	53602	DALM_T2	0	0	0	0	0	0	-0.45	-0.45	1	1	0	600	600	0
6/28/2024 15:15	53601	DALM_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
6/28/2024 15:16	40101	HUNT_T2	31	35	4	0.45	0.45	0	0.14	0.06	0	0	0	0	0	0
6/28/2024 15:16	65001	NEFF_T2	0	0	0	0	0	0	-0.24	-0.16	1	1	0	1200	1200	0
6/28/2024 15:16	65003	NEFF_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
6/28/2024 15:17	56803	BENV_T1	17	112	95	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
6/28/2024 15:17	56801	BENV_T1	13	14	1	0.81	0.61	-0.2	-0.62	-0.57	2	2	0	1200	1200	0
6/28/2024 15:17	40801	EXCH_T2	1	2	1	0.1	0.15	0.05	-0.05	-0.05	1	1	0	1200	1200	0
6/28/2024 15:17	40802	EXCH_T2	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
6/28/2024 15:18	56801	BENV_T1	13	14	1	0.81	0.61	-0.2	-0.62	-0.57	2	2	0	1200	1200	0
6/28/2024 15:18	56803	BENV_T1	17	112	95	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
6/28/2024 15:19	56803	BENV_T1	17	112	95	0.65	0.6	-0.05	-2.9	-1.52	1	0	-1	900	0	-900
6/28/2024 15:19	56801	BENV_T1	13	14	1	0.81	0.61	-0.2	-0.62	-0.57	2	2	0	1200	1200	0
6/28/2024 15:20	56801	BENV_T1	13	14	1	0.81	0.61	-0.2	-0.62	-0.57	2	2	0	1200	1200	0
6/28/2024 15:20	56803	BENV_T1	17	112	95	0.65	0.6	-0.05	-2.9	-1.52	1	0	-1	900	0	-900
6/28/2024 15:21	56803	BENV_T1	17	112	95	0.65	0.6	-0.05	-2.9	-1.52	1	0	-1	900	0	-900
6/28/2024 15:21	58401	MORO_T1	0	0	0	0	0	0	-1.12	-1.11	2	2	0	1200	1200	0
6/28/2024 15:21	56801	BENV_T1	13	14	1	0.81	0.61	-0.2	-0.93	-0.86	3	3	0	1800	1800	0
6/28/2024 15:22	56801	BENV_T1	13	14	1	0.81	0.61	-0.2	-0.29	-0.26	1	1	0	600	600	0
6/28/2024 15:22	56803	BENV_T1	17	112	95	0.65	0.6	-0.05	-1.52	-1.95	0	1	1	0	600	600
6/28/2024 15:23	52004	LING_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
6/28/2024 15:23	52002	LING_T2	0	0	0	0	0	0	0.76	0.78	0	0	0	0	0	0
6/28/2024 15:30	40802	EXCH_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/28/2024 15:30	53601	DALM_T2	1	1	0	1	0.6	-0.4	-0.81	-0.88	1	1	0	900	900	0
6/28/2024 15:30	40801	EXCH_T2	2	2	0	0.1	0.2	0.1	-0.05	-0.07	1	1	0	1200	1200	0
6/28/2024 15:31	44801	EDAN_T2	2	2	0	1.15	0.95	-0.2	0.84	0.84	0	0	0	0	0	0
6/28/2024 15:33	42903	MIDD_T2	2	2	0	0.9	1.05	0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/28/2024 15:33	42902	MIDD_T2	0	0	0	0	0	0	0.17	0.08	0	0	0	0	0	0
6/28/2024 15:36	44203	POIN_T2	0	2	2	0	0	0	0.61	0.74	2	2	0	1800	1800	0
6/28/2024 15:41	55101	WERT_T1	0	2	2	0	0.1	0.1	-1.6	-1.6	4	4	0	3300	3300	0
6/28/2024 15:45	63501	HEID_TBK1-2	0	0	0	0	0	0	0.27	0.29	1	1	0	900	900	0
6/28/2024 15:46	49804	UNIV_T1	1	4	3	1	1.2	0.2	0	0	0	0	0	0	0	0
6/28/2024 15:46	49803	UNIV_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
6/28/2024 15:50	59003	MIFF_T1	0	0	0	0	0	0	-0.87	0.08	0	0	0	0	0	0
6/28/2024 15:50	59001	MIFF_T1	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
6/28/2024 15:50	59002	MIFF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/28/2024 15:55	56501	ROCK_T2	769	768	-1	2.17	0.63	-1.54	-0.02	-0.02	0	0	0	0	0	0
6/28/2024 15:55	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 15:56	56801	BENV_T1	14	12	-2	0.61	0.76	0.15	0	0	0	0	0	0	0	0
6/28/2024 15:56	56803	BENV_T1	112	96	-16	0.6	0.65	0.05	-2.76	-0.75	1	1	0	600	600	0
6/28/2024 15:57	56501	ROCK_T2	769	768	-1	2.17	0.63	-1.54	-0.02	-0.02	0	0	0	0	0	0
6/28/2024 15:57	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 16:01	20601	GRWO_T2	2	2	0	0.45	1.3	0.85	0	0	0	0	0	0	0	0
6/28/2024 16:01	20603	GRWO_T2	0	1	1	0	0.1	0.1	-0.39	-0.38	1	1	0	900	900	0
6/28/2024 16:01	40802	EXCH_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/28/2024 16:01	40801	EXCH_T2	2	2	0	0.2	0.2	0	-0.09	0	1	1	0	1200	1200	0
6/28/2024 16:03	44801	EDAN_T2	2	3	1	1	1.1	0.1	0.84	0.84	0	0	0	0	0	0
6/28/2024 16:06	67402	WAKE_T2	1	0	-1	0.3	0	-0.3	0.08	-0.2	1	1	0	600	600	0
6/28/2024 16:07	67602	WARW_T2	0	0	0	0	0	0	0.26	0.33	2	2	0	1500	1500	0
6/28/2024 16:07	57104	SPHI_T2	1	0	-1	2.6	2.8	0.2	-0.98	-1	1	1	0	900	900	0
6/28/2024 16:07	57106	SPHI_T2	3	3	0	0.37	0.53	0.16	0	0	0	0	0	0	0	0
6/28/2024 16:08	67602	WARW_T2	0	0	0	0	0	0	0.26	0.33	2	2	0	1500	1500	0
6/28/2024 16:09	67602	WARW_T2	0	0	0	0	0	0	0.26	0.33	2	2	0	1500	1500	0
6/28/2024 16:10	67804	WLAN_T1	1	6	5	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/28/2024 16:10	67602	WARW_T2	0	0	0	0	0	0	0.26	0.33	2	2	0	1500	1500	0
6/28/2024 16:10	67801	WLAN_T1	0	0	0	0	0	0	0.26	0.22	0	0	0	0	0	0
6/28/2024 16:11	67602	WARW_T2	0	0	0	0	0	0	0.52	0.66	4	4	0	3000	3000	0
6/28/2024 16:11	41301	FISH_T1	2	3	1	0.9	0.87	-0.03	0.05	0.04	0	0	0	0	0	0
6/28/2024 16:11	41303	FISH_T1	2	6	4	2.75	3.1	0.35	0	0	0	0	0	0	0	0
6/28/2024 16:12	22003	BOHE_T1	82	61	-21	0.19	0.15	-0.04	0	0	0	0	0	0	0	0
6/28/2024 16:12	41301	FISH_T1	2	3	1	0.9	0.87	-0.03	0.05	0.04	0	0	0	0	0	0
6/28/2024 16:12	22001	BOHE_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/28/2024 16:12	67602	WARW_T2	0	0	0	0	0	0	0.26	0.33	2	2	0	1500	1500	0
6/28/2024 16:12	48302	ORWI_T2	3	2	-1	0.53	0.35	-0.18	-0.2	-0.2	0	0	0	0	0	0
6/28/2024 16:12	41303	FISH_T1	2	6	4	2.75	3.1	0.35	0	0	0	0	0	0	0	0
6/28/2024 16:12	22002	BOHE_T1	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
6/28/2024 16:21	63401	HONY_T1	0	0	0	0	0	0	0.96	0.95	0	0	0	0	0	0
6/28/2024 16:27	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/28/2024 16:27	51401	LYKE_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
6/28/2024 16:27	46206	DANV_T2	5	3	-2	0.76	0.9	0.14	2.11	2.14	2	2	0	2100	2100	0
6/28/2024 16:27	52403	GRPA_T2	1	5	4	0.6	0.7	0.1	0.2	0.27	0	0	0	0	0	0
6/28/2024 16:28	51401	LYKE_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
6/28/2024 16:28	11205	ELHE_T1	2	14	12	0.45	0.39	-0.06	0.17	-0.68	0	1	1	0	1200	1200
6/28/2024 16:28	11203	ELHE_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
6/28/2024 16:29	20601	GRWO_T2	1	2	1	1.3	1	-0.3	0	0	0	0	0	0	0	0
6/28/2024 16:29	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/28/2024 16:29	46206	DANV_T2	5	3	-2	0.76	0.9	0.14	2.11	2.14	2	2	0	2100	2100	0
6/28/2024 16:29	20603	GRWO_T2	0	1	1	0	0.1	0.1	-0.39	-0.4	1	1	0	900	900	0
6/28/2024 16:30	56501	ROCK_T2	2	1	-1	7.05	4.5	-2.55	-1.15	-1.02	0	0	0	0	0	0
6/28/2024 16:30	56504	ROCK_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 16:31	20603	GRWO_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/28/2024 16:31	20601	GRWO_T2	2	1	-1	0.75	1	0.25	0.49	0.54	0	0	0	0	0	0
6/28/2024 16:34	56504	ROCK_T2	0	3	3	0	0	0	0.62	0.67	0	0	0	0	0	0
6/28/2024 16:34	56501	ROCK_T2	2	1	-1	7.05	4.5	-2.55	0	0	0	0	0	0	0	0
6/28/2024 16:35	56504	ROCK_T2	0	3	3	0	0	0	0.15	0.17	0	0	0	0	0	0
6/28/2024 16:35	52004	LING_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
6/28/2024 16:35	52002	LING_T2	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
6/28/2024 16:35	56501	ROCK_T2	2	1	-1	7.05	4.5	-2.55	0	0	0	0	0	0	0	0
6/28/2024 16:37	56501	ROCK_T2	2	1	-1	7.05	4.5	-2.55	-1.02	-1.03	0	0	0	0	0	0
6/28/2024 16:37	56504	ROCK_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 16:41	56504	ROCK_T2	0	3	3	0	0	0	0.17	0.18	0	0	0	0	0	0
6/28/2024 16:41	56501	ROCK_T2	2	1	-1	7.05	4.5	-2.55	0	0	0	0	0	0	0	0
6/28/2024 16:44	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 16:44	21206	ECAR_T2	1	1	0	7.9	8	0.1	0.29	0.23	0	0	0	0	0	0
6/28/2024 16:46	14201	EALL_T1	38	55	17	0.68	0.72	0.04	0.53	0.52	0	0	0	0	0	0
6/28/2024 16:48	56501	ROCK_T2	1	2	1	9.1	4.5	-4.6	-1.02	-1.03	0	0	0	0	0	0
6/28/2024 16:48	56504	ROCK_T2	0	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0
6/28/2024 16:50	47401	PENS_T1	1	2	1	0.8	1.2	0.4	0.69	0.34	0	0	0	0	0	0
6/28/2024 16:50	47403	PENS_T1	1	1	0	0.4	1.7	1.3	0	0	0	0	0	0	0	0
6/28/2024 16:52	65802	RTWN_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
6/28/2024 16:52	47401	PENS_T1	1	2	1	0.8	1.2	0.4	0.17	0.15	0	0	0	0	0	0
6/28/2024 16:52	47403	PENS_T1	1	1	0	0.4	1.7	1.3	0	0	0	0	0	0	0	0
6/28/2024 17:03	53802	MBRG_T2	0	0	0	0	0	0	1.03	1.04	0	0	0	0	0	0
6/28/2024 17:04	13503	MCMI_T2	0	99	99	0	0.23	0.23	0.19	-0.69	0	0	0	0	0	0
6/28/2024 17:04	47401	PENS_T1	3	2	-1	2.5	1.5	-1	0.34	0.3	0	0	0	0	0	0
6/28/2024 17:04	47403	PENS_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
6/28/2024 17:05	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 17:05	67204	TEHI_T2	0	0	0	0	0	0	-0.04	0.15	0	0	0	0	0	0
6/28/2024 17:06	47403	PENS_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
6/28/2024 17:06	47401	PENS_T1	3	2	-1	2.5	1.5	-1	0.3	0.34	0	0	0	0	0	0
6/28/2024 17:08	67204	TEHI_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
6/28/2024 17:12	61301	EARL_T1	0	0	0	0	0	0	-1.3	-1.3	2	2	0	1800	1800	0
6/28/2024 17:12	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 17:23	67804	WLAN_T1	1	3	2	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
6/28/2024 17:23	67801	WLAN_T1	0	0	0	0	0	0	0.31	0.26	0	0	0	0	0	0
6/28/2024 17:23	52002	LING_T2	2	0	-2	0.4	0	-0.4	0.93	0.9	0	0	0	0	0	0
6/28/2024 17:24	42501	ALTA_T2	0	0	0	0	0	0	-0.87	-0.87	1	1	0	600	600	0
6/28/2024 17:30	42503	ALTA_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
6/28/2024 17:37	56802	BENV_T2	0	1	1	0	0	0	-0.78	-0.76	0	0	0	0	0	0
6/28/2024 17:47	13503	MCMI_T2	24	145	121	0.15	0.27	0.12	-0.69	-0.69	0	0	0	0	0	0
6/28/2024 17:48	60501	NMAN_T2	3	3	0	3.63	4.17	0.54	0	0	0	0	0	0	0	0
6/28/2024 17:48	60502	NMAN_T2	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
6/28/2024 17:53	60502	NMAN_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
6/28/2024 17:53	60501	NMAN_T2	3	3	0	3.63	4.17	0.54	0	0	0	0	0	0	0	0
6/28/2024 17:58	44801	EDAN_T2	2	5	3	2	1.42	-0.58	0.82	0.82	0	0	0	0	0	0
6/28/2024 18:07	43304	WATS_T2	2	0	-2	0.25	0	-0.25	-0.48	-0.47	0	0	0	0	0	0
6/28/2024 18:08	44301	BEAV_T2	10	5	-5	0.48	0	-0.48	0.33	0.12	1	1	0	600	600	0
6/28/2024 18:11	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 18:11	44301	BEAV_T2	10	5	-5	0.48	0	-0.48	0.33	0.12	1	1	0	600	600	0
6/28/2024 18:12	42503	ALTA_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
6/28/2024 18:12	42501	ALTA_T2	0	1	1	0	0.4	0.4	-1.75	-1.76	2	2	0	1200	1200	0
6/28/2024 18:24	43301	WATS_T2	0	0	0	0	0	0	-0.2	-0.22	1	1	0	900	900	0
6/28/2024 18:24	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 18:26	64101	REFR_T1	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
6/28/2024 18:27	24901	WHHA_T1	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
6/28/2024 18:29	11102	EGYP_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/28/2024 18:29	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 18:29	11104	EGYP_T1	7	5	-2	1.11	0.66	-0.45	0	0	0	0	0	0	0	0
6/28/2024 18:29	41602	CLEV_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 18:29	11103	EGYP_T1	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
6/28/2024 18:30	11104	EGYP_T1	5	5	0	0.66	0.8	0.14	0	0	0	0	0	0	0	0
6/28/2024 18:30	11103	EGYP_T1	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
6/28/2024 18:30	11102	EGYP_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/28/2024 18:33	47101	MARL_T1	0	0	0	0	0	0	-0.37	-0.4	1	1	0	600	600	0
6/28/2024 18:34	47802	MOCA_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
6/28/2024 18:34	47101	MARL_T1	0	0	0	0	0	0	-0.37	-0.4	1	1	0	600	600	0
6/28/2024 18:36	47802	MOCA_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
6/28/2024 18:37	47101	MARL_T1	0	0	0	0	0	0	-0.4	-0.43	1	1	0	600	600	0
6/28/2024 18:38	59201	THOM_T1	2	9	7	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
6/28/2024 18:38	59202	THOM_T1	4	17	13	0.13	0.22	0.09	0	0	0	0	0	0	0	0
6/28/2024 18:39	59201	THOM_T1	2	9	7	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
6/28/2024 18:39	56501	ROCK_T2	0	0	0	0	0	0	-1.1	-1.11	0	0	0	0	0	0
6/28/2024 18:39	56504	ROCK_T2	3	3	0	1.23	1.17	-0.06	0	0	0	0	0	0	0	0
6/28/2024 18:39	59202	THOM_T1	4	17	13	0.13	0.22	0.09	0	0	0	0	0	0	0	0
6/28/2024 18:40	61102	BERK_T5	0	0	0	0	0	0	0.91	0.95	1	1	0	300	300	0
6/28/2024 18:43	52403	GRPA_T2	30	61	31	0.82	0.74	-0.08	-0.23	-0.15	0	0	0	0	0	0
6/28/2024 18:43	52401	GRPA_T2	3	1	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/28/2024 18:43	52402	GRPA_T2	3	3	0	0.33	0.37	0.04	0	0	0	0	0	0	0	0
6/28/2024 19:00	40601	PIGR_T1	34	37	3	0.24	0.26	0.02	0	0	0	0	0	0	0	0
6/28/2024 19:00	40602	PIGR_T1	1	0	-1	0.3	0	-0.3	1.26	1.26	0	0	0	0	0	0
6/28/2024 19:00	12006	HATF_T1	0	0	0	0	0	0	0.41	0.36	1	1	0	1200	1200	0
6/28/2024 19:01	11102	EGYP_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/28/2024 19:01	11101	EGYP_T1	0	0	0	0	0	0	-0.35	-0.36	1	1	0	1200	1200	0
6/28/2024 19:01	11104	EGYP_T1	5	5	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
6/28/2024 19:02	26704	HEML_T2	0	14	14	0	0.1	0.1	-0.7	-0.7	1	1	0	1200	1200	0
6/28/2024 19:07	58001	WCAR_T1	3	4	1	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
6/28/2024 19:07	15103	UPHA_T2	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
6/28/2024 19:07	58003	WCAR_T1	1	18	17	1.4	0.21	-1.19	0.35	0.34	1	1	0	600	600	0
6/28/2024 19:08	51306	WIND_T2	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
6/28/2024 19:08	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/28/2024 19:08	65603	QVIL_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
6/28/2024 19:12	22701	MINO_T1	0	0	0	0	0	0	-0.61	-0.6	1	1	0	600	600	0
6/28/2024 19:16	13501	MCMI_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
6/28/2024 19:17	64902	MILL_T2	0	0	0	0	0	0	-1.43	-1.48	2	2	0	1800	1800	0
6/28/2024 19:20	64902	MILL_T2	0	0	0	0	0	0	-0.72	-0.74	1	1	0	900	900	0
6/28/2024 19:28	22905	HARW_T1	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
6/28/2024 19:28	22903	HARW_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
6/28/2024 19:30	64203	KINZ_T1	0	10	10	0	0.11	0.11	0.16	0.12	1	1	0	600	600	0
6/28/2024 19:30	64202	KINZ_T1	5	11	6	0.22	0.24	0.02	0	0	0	0	0	0	0	0
6/28/2024 19:30	64201	KINZ_T1	13	10	-3	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/28/2024 19:30	64204	KINZ_T1	12	23	11	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
6/28/2024 19:31	54505	ENOL_T2	0	0	0	0	0	0	-0.79	-0.79	1	1	0	600	600	0
6/28/2024 19:33	63501	HEID_TBK1-2	0	1	1	0	0.2	0.2	0.22	0.1	1	1	0	900	900	0
6/28/2024 19:38	14603	SWHI_T1	0	1	1	0	0	0	-1.21	-1.22	2	2	0	1200	1200	0
6/28/2024 19:41	67805	WLAN_T1	0	0	0	0	0	0	-0.97	-1.03	0	0	0	0	0	0
6/28/2024 19:50	56801	BENV_T1	8	20	12	0.49	0.35	-0.14	0	0	0	0	0	0	0	0
6/28/2024 19:50	56803	BENV_T1	12	24	12	0.59	0.51	-0.08	-0.69	-0.71	1	1	0	600	600	0
6/28/2024 19:52	52004	LING_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
6/28/2024 19:52	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 19:52	40502	CRES_T2	13	14	1	0.24	0.29	0.05	-0.91	-0.98	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/28/2024 19:54	61102	BERK_T5	0	0	0	0	0	0	0.62	0.52	1	1	0	300	300	0
6/28/2024 19:56	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 19:56	40502	CRES_T2	13	14	1	0.24	0.29	0.05	-0.45	-0.49	0	0	0	0	0	0
6/28/2024 19:58	54503	ENOL_T2	0	0	0	0	0	0	-0.79	-0.81	1	1	0	600	600	0
6/28/2024 19:58	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 20:02	53901	HALI_T2	1	1	0	0.1	0.3	0.2	-1.01	-1.02	0	0	0	0	0	0
6/28/2024 20:02	53903	HALI_T2	2	2	0	1.45	1.6	0.15	0	0	0	0	0	0	0	0
6/28/2024 20:02	53902	HALI_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
6/28/2024 20:04	65702	RVIL_T2	0	0	0	0	0	0	-0.83	-0.88	1	1	0	600	600	0
6/28/2024 20:05	22701	MINO_T1	0	0	0	0	0	0	-0.11	-0.07	0	0	0	0	0	0
6/28/2024 20:05	42201	SHEN_T2	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
6/28/2024 20:07	52501	PROG_T1	0	1	1	0	0.1	0.1	0.38	0.36	1	1	0	300	300	0
6/28/2024 20:13	62102	ELAN_T1	0	0	0	0	0	0	1.41	1.36	0	0	0	0	0	0
6/28/2024 20:22	59102	WALK_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
6/28/2024 20:22	59101	WALK_T2	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
6/28/2024 20:24	25503	MADI_T1	0	4	4	0	0.18	0.18	-0.75	-0.76	0	0	0	0	0	0
6/28/2024 20:26	10901	COOP_T2	0	0	0	0	0	0	-0.37	-0.41	1	1	0	1200	1200	0
6/28/2024 20:26	67402	WAKE_T2	0	0	0	0	0	0	-0.07	-0.1	1	1	0	600	600	0
6/28/2024 20:26	67401	WAKE_T2	3	11	8	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
6/28/2024 20:30	67503	WEWI_T2	0	0	0	0	0	0	0.42	0.38	0	0	0	0	0	0
6/28/2024 20:32	12301	LANA_T2	0	0	0	0	0	0	-0.81	-0.82	1	1	0	1200	1200	0
6/28/2024 20:34	64802	MONE_T2	0	0	0	0	0	0	0.25	0.33	0	0	0	0	0	0
6/28/2024 20:35	42201	SHEN_T2	0	0	0	0	0	0	0.86	0.85	0	0	0	0	0	0
6/28/2024 20:38	42201	SHEN_T2	0	0	0	0	0	0	0.85	0.84	0	0	0	0	0	0
6/28/2024 20:39	42204	SHEN_T2	0	0	0	0	0	0	-0.81	-0.81	1	1	0	1200	1200	0
6/28/2024 20:39	42201	SHEN_T2	0	0	0	0	0	0	0.85	0.84	0	0	0	0	0	0
6/28/2024 20:53	12701	MACU_T1	0	0	0	0	0	0	-0.98	-0.99	1	1	0	1200	1200	0
6/28/2024 21:09	29402	BELT_T1	2	107	105	0.1	0.57	0.47	0	0	0	0	0	0	0	0
6/28/2024 21:28	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 21:38	16302	ALPA_T2	0	0	0	0	0	0	-0.39	-0.42	0	0	0	0	0	0
6/28/2024 21:39	16302	ALPA_T2	0	0	0	0	0	0	-0.79	-0.83	0	0	0	0	0	0
6/28/2024 21:40	12604	MACA_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
6/28/2024 21:42	15001	BLMO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 21:42	16302	ALPA_T2	0	0	0	0	0	0	-0.39	-0.42	0	0	0	0	0	0
6/28/2024 21:43	15001	BLMO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 21:45	16302	ALPA_T2	0	0	0	0	0	0	-0.39	-0.42	0	0	0	0	0	0
6/28/2024 21:45	15001	BLMO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 21:47	12701	MACU_T1	0	0	0	0	0	0	-1.02	-1.03	1	1	0	1200	1200	0
6/28/2024 21:58	24102	EHAZ_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/28/2024 21:58	24105	EHAZ_T1	4	4	0	6.55	6.53	-0.02	0	0	0	0	0	0	0	0
6/28/2024 21:58	24103	EHAZ_T1	0	0	0	0	0	0	-0.49	-0.53	0	0	0	0	0	0
6/28/2024 22:06	44301	BEAV_T2	0	0	0	0	0	0	-0.1	0.02	1	1	0	600	600	0
6/28/2024 22:07	44702	MUNC_T2	48	1	-47	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
6/28/2024 22:07	44701	MUNC_T2	7	2	-5	0.19	0.15	-0.04	0	0	0	0	0	0	0	0
6/28/2024 22:07	44703	MUNC_T2	3	3	0	0.57	0.4	-0.17	0.77	0.75	0	0	0	0	0	0
6/28/2024 22:08	43802	SWIL_T1	0	0	0	0	0	0	0.07	0.04	1	1	0	600	600	0
6/28/2024 22:08	43801	SWIL_T1	18	2	-16	0.49	3.3	2.81	0	0	0	0	0	0	0	0
6/28/2024 22:21	56801	BENV_T1	9	11	2	0.59	0.95	0.36	-0.45	-0.47	1	1	0	600	600	0
6/28/2024 22:21	56803	BENV_T1	23	25	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:22	16902	MECK_T1	0	3	3	0	0.1	0.1	0.11	0.11	0	0	0	0	0	0
6/28/2024 22:22	17002	RIRO_T2	1	1	0	1.2	0.9	-0.3	0.49	0.48	0	0	0	0	0	0
6/28/2024 22:22	16901	MECK_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/28/2024 22:23	56803	BENV_T1	23	25	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:23	16902	MECK_T1	0	3	3	0	0.1	0.1	0.11	0.11	0	0	0	0	0	0
6/28/2024 22:23	56801	BENV_T1	9	11	2	0.59	0.95	0.36	-0.47	-0.49	1	1	0	600	600	0
6/28/2024 22:23	16901	MECK_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/28/2024 22:24	16901	MECK_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/28/2024 22:24	56803	BENV_T1	23	25	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:24	16902	MECK_T1	0	3	3	0	0.1	0.1	0.23	0.22	0	0	0	0	0	0
6/28/2024 22:24	56801	BENV_T1	9	11	2	0.59	0.95	0.36	-0.47	-0.49	1	1	0	600	600	0
6/28/2024 22:26	11103	EGYP_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
6/28/2024 22:26	13303	ORVI_T1	0	0	0	0	0	0	0.23	-0.26	0	0	0	0	0	0
6/28/2024 22:26	56803	BENV_T1	23	25	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:26	56801	BENV_T1	9	11	2	0.59	0.95	0.36	-0.94	-0.98	2	2	0	1200	1200	0
6/28/2024 22:27	56801	BENV_T1	9	11	2	0.59	0.95	0.36	-0.47	-0.49	1	1	0	600	600	0
6/28/2024 22:27	56803	BENV_T1	23	25	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:28	56801	BENV_T1	9	11	2	0.59	0.95	0.36	-0.47	-0.49	1	1	0	600	600	0
6/28/2024 22:28	64203	KINZ_T1	0	0	0	0	0	0	0.42	0.38	0	0	0	0	0	0
6/28/2024 22:28	64204	KINZ_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
6/28/2024 22:28	56803	BENV_T1	23	25	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:28	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/28/2024 22:28	64201	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/28/2024 22:28	63602	LETO_T1	0	0	0	0	0	0	-0.71	-0.78	1	1	0	600	600	0
6/28/2024 22:29	56803	BENV_T1	23	25	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:29	56801	BENV_T1	9	11	2	0.59	0.95	0.36	-0.47	-0.49	1	1	0	600	600	0
6/28/2024 22:30	48302	ORWI_T2	2	2	0	0.9	1.25	0.35	0.12	0.11	0	0	0	0	0	0
6/28/2024 22:30	13502	MCMI_T1	0	1	1	0	0.1	0.1	-0.1	-0.11	0	0	0	0	0	0
6/28/2024 22:31	11103	EGYP_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
6/28/2024 22:31	15601	NSTR_T2	4	21	17	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
6/28/2024 22:31	15602	NSTR_T2	4	40	36	0.1	0.11	0.01	0	0	0	0	0	0	0	0
6/28/2024 22:31	60201	ATGL_T2	0	0	0	0	0	0	0.25	0.59	1	0	-1	300	0	-300
6/28/2024 22:31	13501	MCMI_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
6/28/2024 22:31	11101	EGYP_T1	0	0	0	0	0	0	0.72	0.7	0	0	0	0	0	0
6/28/2024 22:31	67605	WARW_T1	1	5	4	0.1	0.32	0.22	0	0	0	0	0	0	0	0
6/28/2024 22:31	61102	BERK_T5	0	0	0	0	0	0	0.98	0.93	2	2	0	600	600	0
6/28/2024 22:31	67603	WARW_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
6/28/2024 22:31	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:31	15603	NSTR_T2	5	10	5	0.14	0.18	0.04	-0.49	-0.49	0	0	0	0	0	0
6/28/2024 22:31	61103	BERK_T5	0	14	14	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:32	63401	HONY_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
6/28/2024 22:32	64202	KINZ_T1	1	1	0	0.6	1.2	0.6	0	0	0	0	0	0	0	0
6/28/2024 22:32	14201	EALL_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
6/28/2024 22:32	61102	BERK_T5	0	0	0	0	0	0	0.49	0.47	1	1	0	300	300	0
6/28/2024 22:32	65001	NEFF_T2	0	0	0	0	0	0	-1.07	-1.07	1	1	0	1200	1200	0
6/28/2024 22:32	67001	STHI_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
6/28/2024 22:32	64202	KINZ_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
6/28/2024 22:32	63404	HONY_T1	2	20	18	0.1	0.17	0.07	0	0	0	0	0	0	0	0
6/28/2024 22:32	64201	KINZ_T1	1	1	0	0.4	1.1	0.7	0.6	0.56	1	1	0	300	300	0
6/28/2024 22:32	63602	LETO_T1	0	0	0	0	0	0	-0.71	-0.78	1	1	0	600	600	0
6/28/2024 22:32	15103	UPHA_T2	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
6/28/2024 22:32	26704	HEMI_T2	90	89	-1	0.4	0.39	-0.01	-0.76	-0.76	1	1	0	1200	1200	0
6/28/2024 22:32	60201	ATGL_T2	0	0	0	0	0	0	0.25	0.59	1	0	-1	300	0	-300
6/28/2024 22:32	61103	BERK_T5	0	14	14	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:32	65603	QVIL_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
6/28/2024 22:33	63404	HONY_T1	2	20	18	0.1	0.17	0.07	0	0	0	0	0	0	0	0
6/28/2024 22:33	20401	ASHF_T2	1	0	-1	0.3	0	-0.3	-0.06	-0.08	0	0	0	0	0	0
6/28/2024 22:33	63401	HONY_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
6/28/2024 22:33	40101	HUNT_T2	2	1	-1	0.55	0	-0.55	-0.43	-0.45	0	0	0	0	0	0
6/28/2024 22:33	61102	BERK_T5	0	0	0	0	0	0	0.49	0.47	1	1	0	300	300	0
6/28/2024 22:33	61103	BERK_T5	0	14	14	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:33	47001	HUGH_T2	3	3	0	8.8	8.73	-0.07	-0.66	-0.68	0	0	0	0	0	0
6/28/2024 22:34	25402	LAHA_T2	1	0	-1	0.1	0	-0.1	-0.81	-0.82	0	0	0	0	0	0
6/28/2024 22:34	23201	HIRU_T2	0	8	8	0	0.14	0.14	0	0	0	0	0	0	0	0
6/28/2024 22:34	15703	TANN_T2	1	3	2	5	1.73	-3.27	0	0	0	0	0	0	0	0
6/28/2024 22:34	28703	HAML_T2	2	3	1	0.35	0.73	0.38	0	0	0	0	0	0	0	0
6/28/2024 22:34	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:34	15702	TANN_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
6/28/2024 22:34	66505	SMAN_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:34	67605	WARW_T1	1	5	4	0.1	0.32	0.22	-1.21	-1.24	0	0	0	0	0	0
6/28/2024 22:34	56802	BENV_T2	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
6/28/2024 22:34	28704	HAML_T2	1	6	5	0.6	0.23	-0.37	0.04	0.04	0	0	0	0	0	0
6/28/2024 22:34	13501	MCMI_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
6/28/2024 22:34	67303	WYOM_T2	0	0	0	0	0	0	-1.24	-1.27	0	0	0	0	0	0
6/28/2024 22:34	64101	REFR_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
6/28/2024 22:34	41301	FISH_T1	1	2	1	2.2	1.3	-0.9	0.06	0.05	0	0	0	0	0	0
6/28/2024 22:34	60803	BUCK_T1	13	0	-13	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/28/2024 22:34	41303	FISH_T1	1	1	0	1.9	1	-0.9	0	0	0	0	0	0	0	0
6/28/2024 22:34	60801	BUCK_T1	12	0	-12	0.19	0	-0.19	-0.09	-0.09	0	0	0	0	0	0
6/28/2024 22:34	25404	LAHA_T2	51	45	-6	0.12	0.12	0	0	0	0	0	0	0	0	0
6/28/2024 22:34	47401	PENS_T1	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
6/28/2024 22:34	28701	HAML_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:34	23203	HIRU_T2	0	9	9	0	0.14	0.14	0	0	0	0	0	0	0	0
6/28/2024 22:34	66504	SMAN_T2	0	0	0	0	0	0	-2.68	0	2	2	0	2400	2400	0
6/28/2024 22:34	23202	HIRU_T2	0	2	2	0	0.1	0.1	0.13	0.13	0	0	0	0	0	0
6/28/2024 22:35	55101	WERT_T1	0	0	0	0	0	0	-1.1	-1.13	2	2	0	1500	1500	0
6/28/2024 22:35	13503	MCMI_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
6/28/2024 22:35	46802	HEPB_T1	1	1	0	0.8	0.1	-0.7	-0.06	-0.07	0	0	0	0	0	0
6/28/2024 22:35	15602	NSTR_T2	4	40	36	0.1	0.11	0.01	0.04	0.02	0	0	0	0	0	0
6/28/2024 22:35	29402	BELT_T1	100	168	68	0.65	0.66	0.01	0	0	0	0	0	0	0	0
6/28/2024 22:35	66505	SMAN_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:35	66901	SHIL_T2	242	308	66	0.34	0.48	0.14	0.1	0.08	0	0	0	0	0	0
6/28/2024 22:35	41303	FISH_T1	1	1	0	1.9	1	-0.9	0	0	0	0	0	0	0	0
6/28/2024 22:35	20403	ASHF_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
6/28/2024 22:35	66504	SMAN_T2	0	0	0	0	0	0	0	-1.34	0	1	1	0	1200	1200
6/28/2024 22:35	22904	HARW_T1	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
6/28/2024 22:35	55001	NEWP_T1	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
6/28/2024 22:35	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:35	67605	WARW_T1	1	5	4	0.1	0.32	0.22	0	0	0	0	0	0	0	0
6/28/2024 22:35	15601	NSTR_T2	4	21	17	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
6/28/2024 22:35	12006	HATF_T1	0	0	0	0	0	0	-0.49	-0.54	1	1	0	1200	1200	0
6/28/2024 22:35	67603	WARW_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
6/28/2024 22:35	61102	BERK_T5	0	0	0	0	0	0	0.49	0.47	1	1	0	300	300	0
6/28/2024 22:35	66902	SHIL_T2	163	335	172	0.22	0.3	0.08	0	0	0	0	0	0	0	0
6/28/2024 22:35	63401	HONY_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
6/28/2024 22:35	67602	WARW_T2	0	0	0	0	0	0	0.11	0.08	1	1	0	1200	1200	0
6/28/2024 22:35	20401	ASHF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/28/2024 22:35	63404	HONY_T1	2	20	18	0.1	0.17	0.07	0	0	0	0	0	0	0	0
6/28/2024 22:35	41301	FISH_T1	1	2	1	2.2	1.3	-0.9	0.06	0.05	0	0	0	0	0	0
6/28/2024 22:35	66903	SHIL_T2	67	143	76	0.28	0.36	0.08	0	0	0	0	0	0	0	0
6/28/2024 22:35	63501	HEID_TBK1-2	0	1	1	0	0.3	0.3	0.66	-0.27	0	1	1	0	900	900
6/28/2024 22:35	61103	BERK_T5	0	14	14	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:35	15603	NSTR_T2	5	10	5	0.14	0.18	0.04	0	0	0	0	0	0	0	0
6/28/2024 22:36	60501	NMAN_T2	3	3	0	4.8	4.67	-0.13	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/28/2024 22:36	20403	ASHF_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
6/28/2024 22:36	60201	ATGL_T2	0	0	0	0	0	0	0.59	0.47	1	0	-1	300	0	-300
6/28/2024 22:36	61102	BERK_T5	0	0	0	0	0	0	0.47	0.44	1	1	0	300	300	0
6/28/2024 22:36	21204	ECAR_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:36	63501	HEID_TBK1-2	0	1	1	0	0.3	0.3	-0.27	-0.28	0	1	1	0	900	900
6/28/2024 22:36	23403	HONE_T1	0	0	0	0	0	0	-0.26	-0.22	0	0	0	0	0	0
6/28/2024 22:36	21206	ECAR_T2	1	8	7	8.1	8.4	0.3	0.11	0.13	0	0	0	0	0	0
6/28/2024 22:36	64101	REFR_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
6/28/2024 22:36	20401	ASHF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/28/2024 22:36	67602	WARW_T2	0	0	0	0	0	0	0.08	0.05	1	1	0	1200	1200	0
6/28/2024 22:36	13503	MCMI_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
6/28/2024 22:36	61303	BERK_T5	0	14	14	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:36	51004	NHAR_T1	1	1	0	6.4	6.1	-0.3	-1.67	-1.69	0	0	0	0	0	0
6/28/2024 22:36	51003	NHAR_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
6/28/2024 22:36	51002	NHAR_T1	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
6/28/2024 22:36	67605	WARW_T1	1	5	4	0.1	0.32	0.22	-1.24	-1.28	0	0	0	0	0	0
6/28/2024 22:36	64902	MILL_T2	0	0	0	0	0	0	-0.37	-0.27	1	1	0	900	900	0
6/28/2024 22:36	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.19	0	0	0	0	0	0
6/28/2024 22:37	61501	EPET_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
6/28/2024 22:37	51401	LYKE_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
6/28/2024 22:37	28805	LAKE_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
6/28/2024 22:37	41602	CLEV_T1	1	1	0	0.4	0	-0.4	0	0	1	1	0	600	600	0
6/28/2024 22:37	43402	BENT_T1	0	3	3	0	0.23	0.23	0.04	0.03	0	0	0	0	0	0
6/28/2024 22:37	28702	HAML_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
6/28/2024 22:37	67605	WARW_T1	1	5	4	0.1	0.32	0.22	-1.24	-1.28	0	0	0	0	0	0
6/28/2024 22:37	39601	LNFD_T1	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/28/2024 22:37	22002	BOHE_T1	7	8	1	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
6/28/2024 22:37	67802	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/28/2024 22:37	61301	EARL_T1	0	0	0	0	0	0	-0.42	-0.43	1	1	0	900	900	0
6/28/2024 22:37	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.19	0	0	0	0	0	0
6/28/2024 22:37	67805	WLAN_T1	295	0	-295	0.19	0	-0.19	0	0	0	0	0	0	0	0
6/28/2024 22:37	28701	HAML_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:37	60501	NMAN_T2	3	3	0	4.8	4.67	-0.13	0	0	0	0	0	0	0	0
6/28/2024 22:37	61102	BERK_T5	0	0	0	0	0	0	0.47	0.44	1	1	0	300	300	0
6/28/2024 22:37	22001	BOHE_T1	128	145	17	0.19	0.19	0	0.36	0.35	0	0	0	0	0	0
6/28/2024 22:37	63501	HEID_TBK1-2	0	1	1	0	0.3	0.3	-0.27	-0.28	1	1	0	900	900	0
6/28/2024 22:37	28704	HAML_T2	1	6	5	0.6	0.23	-0.37	0	0	0	0	0	0	0	0
6/28/2024 22:37	67002	STHI_T2	0	0	0	0	0	0	0.87	0.85	0	0	0	0	0	0
6/28/2024 22:37	23001	SAJO_T1	1	3	2	0.3	0.3	0	0.18	0.16	0	0	0	0	0	0
6/28/2024 22:37	28703	HAML_T2	2	3	1	0.35	0.73	0.38	0	0	0	0	0	0	0	0
6/28/2024 22:37	56501	ROCK_T2	2	2	0	4.05	3.45	-0.6	-0.18	-0.2	0	0	0	0	0	0
6/28/2024 22:37	16406	MOPO_T1	0	0	0	0	0	0	-0.28	-0.28	1	1	0	900	900	0
6/28/2024 22:37	48302	ORWI_T2	2	2	0	0.9	1.25	0.35	0.11	0.11	0	0	0	0	0	0
6/28/2024 22:37	64902	MILL_T2	0	0	0	0	0	0	-0.37	-0.27	1	1	0	900	900	0
6/28/2024 22:37	61304	EARL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:37	56504	ROCK_T2	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
6/28/2024 22:37	67803	WLAN_T1	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
6/28/2024 22:37	20603	GRWO_T2	0	1	1	0	0.1	0.1	0.47	0.47	0	0	0	0	0	0
6/28/2024 22:37	61506	EPET_T2	0	0	0	0	0	0	-0.81	-0.74	1	1	0	900	900	0
6/28/2024 22:37	12002	HATF_T1	0	0	0	0	0	0	-1.11	-1.11	1	1	0	1200	1200	0
6/28/2024 22:37	22003	BOHE_T1	344	382	38	0.59	0.57	-0.02	-0.18	-0.18	0	0	0	0	0	0
6/28/2024 22:37	61103	BERK_T5	0	14	14	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:38	15702	TANN_T2	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
6/28/2024 22:38	26402	INOR_T1	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
6/28/2024 22:38	61103	BERK_T5	0	14	14	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:38	67805	WLAN_T1	295	0	-295	0.19	0	-0.19	0	0	0	0	0	0	0	0
6/28/2024 22:38	26401	INOR_T1	1	0	-1	9.2	9.3	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:38	64101	REFR_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
6/28/2024 22:38	60201	ATGL_T2	0	0	0	0	0	0	0.59	0.47	0	0	0	0	0	0
6/28/2024 22:38	61102	BERK_T5	0	0	0	0	0	0	0.93	0.88	2	2	0	600	600	0
6/28/2024 22:38	15703	TANN_T2	1	3	2	5	1.73	-3.27	0	0	0	0	0	0	0	0
6/28/2024 22:38	60801	BUCK_T1	12	0	-12	0.19	0	-0.19	-0.09	-0.1	0	0	0	0	0	0
6/28/2024 22:38	29402	BELT_T1	100	168	68	0.65	0.66	0.01	0	0	0	0	0	0	0	0
6/28/2024 22:38	14204	EALL_T2	0	0	0	0	0	0	-0.48	0.8	1	0	-1	1200	0	-1200
6/28/2024 22:38	66502	SMAN_T2	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
6/28/2024 22:38	67802	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/28/2024 22:38	42501	ALTA_T2	0	0	0	0	0	0	0.29	0.28	1	1	0	600	600	0
6/28/2024 22:38	66505	SMAN_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:38	24702	FLND_T2	0	0	0	0	0	0	-0.15	-0.29	1	1	0	1200	1200	0
6/28/2024 22:38	67801	WLAN_T1	0	0	0	0	0	0	-0.33	-0.37	0	0	0	0	0	0
6/28/2024 22:38	67001	STHI_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
6/28/2024 22:38	60803	BUCK_T1	13	0	-13	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/28/2024 22:39	53901	HALI_T2	0	1	1	0	0.2	0.2	-1.13	-1.14	0	0	0	0	0	0
6/28/2024 22:39	53903	HALI_T2	0	2	2	0	1.25	1.25	0	0	0	0	0	0	0	0
6/28/2024 22:39	22003	BOHE_T1	344	382	38	0.59	0.57	-0.02	0	0	0	0	0	0	0	0
6/28/2024 22:39	67401	WAKE_T2	6	0	-6	0.13	0	-0.13	0	0	0	0	0	0	0	0
6/28/2024 22:39	61102	BERK_T5	0	0	0	0	0	0	0.47	0.44	1	1	0	300	300	0
6/28/2024 22:39	52002	LING_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
6/28/2024 22:39	15703	TANN_T2	1	3	2	5	1.73	-3.27	0	0	0	0	0	0	0	0
6/28/2024 22:39	15702	TANN_T2	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
6/28/2024 22:39	67602	WARW_T2	0	0	0	0	0	0	0.16	0.11	2	2	0	2400	2400	0
6/28/2024 22:39	53902	HALI_T2	1	1	0	5	5.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:39	67402	WAKE_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
6/28/2024 22:39	61103	BERK_T5	0	14	14	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:39	67605	WARW_T1	1	5	4	0.1	0.32	0.22	-1.24	-1.28	0	0	0	0	0	0
6/28/2024 22:39	46206	DANV_T2	0	0	0	0	0	0	0.82	0.8	2	2	0	2100	2100	0
6/28/2024 22:39	22001	BOHE_T1	128	145	17	0.19	0.19	0	0	0	0	0	0	0	0	0
6/28/2024 22:39	22002	BOHE_T1	7	8	1	0.21	0.19	-0.02	0.4	0.38	0	0	0	0	0	0
6/28/2024 22:40	52004	LING_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
6/28/2024 22:40	41301	FISH_T1	1	2	1	2.2	1.3	-0.9	0.05	0.05	0	0	0	0	0	0
6/28/2024 22:40	40802	EXCH_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
6/28/2024 22:40	64902	MILL_T2	0	0	0	0	0	0	-0.37	-0.27	1	1	0	900	900	0
6/28/2024 22:40	41303	FISH_T1	1	1	0	1.9	1	-0.9	0	0	0	0	0	0	0	0
6/28/2024 22:40	40801	EXCH_T2	0	0	0	0	0	0	-0.27	-0.29	1	1	0	1200	1200	0
6/28/2024 22:40	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:40	59202	THOM_T1	23	11	-12	0.18	0.12	-0.06	0	0	0	0	0	0	0	0
6/28/2024 22:40	57106	SPHI_T2	3	3	0	1.73	1.77	0.04	0	0	0	0	0	0	0	0
6/28/2024 22:40	57104	SPHI_T2	1	2	1	2.6	2.6	0	-1.6	-1.64	1	1	0	900	900	0
6/28/2024 22:40	20403	ASHF_T2	0	0	0	0	0	0	0.86	0.8	0	0	0	0	0	0
6/28/2024 22:40	63404	HONY_T1	2	20	18	0.1	0.17	0.07	0	0	0	0	0	0	0	0
6/28/2024 22:40	20401	ASHF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/28/2024 22:40	57101	SPHI_T2	3	6	3	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/28/2024 22:40	47401	PENS_T1	0	0	0	0	0	0	-0.18	-0.24	0	0	0	0	0	0
6/28/2024 22:40	59201	THOM_T1	6	2	-4	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
6/28/2024 22:40	28805	LAKE_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
6/28/2024 22:40	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:40	40502	CRES_T2	9	18	9	0.13	0.29	0.16	-0.43	-0.48	0	0	0	0	0	0
6/28/2024 22:40	65205	PRIN_T1	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
6/28/2024 22:40	44601	SALE_T2	1	1	0	0.2	0.6	0.4	0.03	0.02	0	0	0	0	0	0
6/28/2024 22:40	47802	MOCA_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
6/28/2024 22:40	43301	WATS_T2	0	2	2	0	0.15	0.15	-0.48	-0.49	1	1	0	900	900	0
6/28/2024 22:40	24702	FLND_T2	0	0	0	0	0	0	-0.15	-0.29	1	1	0	1200	1200	0
6/28/2024 22:40	63401	HONY_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/28/2024 22:40	54505	ENOL_T2	0	0	0	0	0	0	-0.98	-1	1	1	0	600	600	0
6/28/2024 22:40	43302	WATS_T2	4	4	0	0.45	0.53	0.08	0	0	0	0	0	0	0	0
6/28/2024 22:40	13503	MCMI_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/28/2024 22:41	28403	HART_T2	0	0	0	0	0	0	-0.77	-0.78	1	1	0	900	900	0
6/28/2024 22:41	67204	TEHI_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
6/28/2024 22:41	40601	PIGR_T1	2	84	82	0.1	0.19	0.09	-0.07	-0.08	0	0	0	0	0	0
6/28/2024 22:41	16204	POFA_T1	61	0	-61	0.14	0	-0.14	0	0	0	0	0	0	0	0
6/28/2024 22:41	56803	BENV_T1	25	20	-5	0.4	0.43	0.03	-1.81	-1.84	2	2	0	1200	1200	0
6/28/2024 22:41	52402	GRPA_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/28/2024 22:41	60803	BUCK_T1	13	0	-13	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/28/2024 22:41	67602	WARW_T2	0	0	0	0	0	0	0.08	0.05	1	1	0	1200	1200	0
6/28/2024 22:41	56801	BENV_T1	11	11	0	0.91	1.03	0.12	-0.98	-1.02	2	2	0	1200	1200	0
6/28/2024 22:41	52501	PROG_T1	0	0	0	0	0	0	0.19	0.17	1	1	0	300	300	0
6/28/2024 22:41	59101	WALK_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
6/28/2024 22:41	60201	ATGL_T2	0	0	0	0	0	0	0.59	0.47	0	0	0	0	0	0
6/28/2024 22:41	67203	TEHI_T1	0	0	0	0	0	0	1.7	1.68	1	1	0	900	900	0
6/28/2024 22:41	16202	POFA_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/28/2024 22:41	56501	ROCK_T2	2	2	0	4.05	3.45	-0.6	0	0	0	0	0	0	0	0
6/28/2024 22:41	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	-0.17	-0.19	0	0	0	0	0	0
6/28/2024 22:41	49803	UNIV_T1	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
6/28/2024 22:41	56504	ROCK_T2	0	0	0	0	0	0	-0.24	-0.29	0	0	0	0	0	0
6/28/2024 22:41	47001	HUGH_T2	3	3	0	8.8	8.73	-0.07	-0.68	-0.69	0	0	0	0	0	0
6/28/2024 22:41	49804	UNIV_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/28/2024 22:41	60801	BUCK_T1	12	0	-12	0.19	0	-0.19	-0.09	-0.1	0	0	0	0	0	0
6/28/2024 22:42	56803	BENV_T1	25	20	-5	0.4	0.43	0.03	0	0	0	0	0	0	0	0
6/28/2024 22:42	40901	JESH_T1	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
6/28/2024 22:42	42503	ALTA_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
6/28/2024 22:42	60801	BUCK_T1	12	0	-12	0.19	0	-0.19	-0.09	-0.1	0	0	0	0	0	0
6/28/2024 22:42	61102	BERK_T5	0	0	0	0	0	0	0.47	0.44	1	1	0	300	300	0
6/28/2024 22:42	41602	CLEV_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/28/2024 22:42	61803	EELI_T2	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
6/28/2024 22:42	40902	JESH_T1	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
6/28/2024 22:42	61801	EELI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/28/2024 22:42	65702	RVIL_T2	0	0	0	0	0	0	-0.67	-0.69	1	1	0	600	600	0
6/28/2024 22:42	58402	MORO_T1	0	0	0	0	0	0	-0.35	-0.37	2	2	0	1500	1500	0
6/28/2024 22:42	20603	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:42	60803	BUCK_T1	13	0	-13	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/28/2024 22:42	67602	WARW_T2	0	0	0	0	0	0	0.08	0.05	1	1	0	1200	1200	0
6/28/2024 22:42	45801	HEGI_T1	0	0	0	0	0	0	-0.19	-0.2	1	1	0	900	900	0
6/28/2024 22:42	58001	WCAR_T1	4	4	0	0.43	0.63	0.2	0	0	0	0	0	0	0	0
6/28/2024 22:42	20601	GRWO_T2	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
6/28/2024 22:42	56801	BENV_T1	11	11	0	0.91	1.03	0.12	-0.98	-1.02	2	2	0	1200	1200	0
6/28/2024 22:42	47401	PENS_T1	0	0	0	0	0	0	-0.54	-0.72	0	0	0	0	0	0
6/28/2024 22:42	61103	BERK_T5	0	14	14	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:42	56501	ROCK_T2	2	2	0	4.05	3.45	-0.6	-0.18	-0.2	0	0	0	0	0	0
6/28/2024 22:42	58003	WCAR_T1	1	1	0	1	1.2	0.2	1.7	1.68	0	0	0	0	0	0
6/28/2024 22:42	52004	LING_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
6/28/2024 22:42	13503	MCMI_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
6/28/2024 22:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:42	44601	SALE_T2	1	1	0	0.2	0.6	0.4	0.03	0.02	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/28/2024 22:42	55002	NEWP_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
6/28/2024 22:42	56802	BENV_T2	0	0	0	0	0	0	-0.82	-0.87	0	0	0	0	0	0
6/28/2024 22:43	66502	SMAN_T2	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
6/28/2024 22:43	40801	EXCH_T2	0	0	0	0	0	0	-0.27	-0.29	1	1	0	1200	1200	0
6/28/2024 22:43	42501	ALTA_T2	0	0	0	0	0	0	0.29	0.28	1	1	0	600	600	0
6/28/2024 22:43	56802	BENV_T2	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
6/28/2024 22:43	64101	REFR_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
6/28/2024 22:43	66505	SMAN_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:43	56803	BENV_T1	25	20	-5	0.4	0.43	0.03	0	0	0	0	0	0	0	0
6/28/2024 22:43	20403	ASHF_T2	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
6/28/2024 22:43	53902	HALI_T2	1	1	0	5	5.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:43	60501	NMAN_T2	3	3	0	4.8	4.67	-0.13	0	0	0	0	0	0	0	0
6/28/2024 22:43	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/28/2024 22:43	22905	HARW_T1	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
6/28/2024 22:43	52002	LING_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
6/28/2024 22:43	53903	HALI_T2	0	2	2	0	1.25	1.25	0.04	0.03	0	0	0	0	0	0
6/28/2024 22:43	56501	ROCK_T2	2	2	0	4.05	3.45	-0.6	-0.18	-0.2	0	0	0	0	0	0
6/28/2024 22:43	55002	NEWP_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
6/28/2024 22:43	46206	DANV_T2	0	0	0	0	0	0	0.82	0.8	2	2	0	2100	2100	0
6/28/2024 22:43	61102	BERK_T5	0	0	0	0	0	0	0.47	0.44	1	1	0	300	300	0
6/28/2024 22:43	61103	BERK_T5	0	14	14	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:43	56801	BENV_T1	11	11	0	0.91	1.03	0.12	-0.49	-0.51	1	1	0	600	600	0
6/28/2024 22:43	20401	ASHF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/28/2024 22:43	42903	MIDD_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
6/28/2024 22:43	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.19	0	0	0	0	0	0
6/28/2024 22:43	42902	MIDD_T2	0	0	0	0	0	0	-1.17	-1.19	1	1	0	600	600	0
6/28/2024 22:44	53901	HALI_T2	0	1	1	0	0.2	0.2	-1.13	-1.14	0	0	0	0	0	0
6/28/2024 22:44	55101	WERT_T1	0	0	0	0	0	0	-1.13	-1.16	2	2	0	1500	1500	0
6/28/2024 22:44	40502	CRES_T2	9	18	9	0.13	0.29	0.16	-0.22	-0.24	0	0	0	0	0	0
6/28/2024 22:44	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:44	64101	REFR_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
6/28/2024 22:44	53902	HALI_T2	1	1	0	5	5.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:44	59003	MIFF_T1	1	1	0	0.8	0.6	-0.2	-0.18	-0.24	0	0	0	0	0	0
6/28/2024 22:44	58001	WCAR_T1	4	4	0	0.43	0.63	0.2	0	0	0	0	0	0	0	0
6/28/2024 22:44	41901	REED_T1	1	3	2	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
6/28/2024 22:44	56801	BENV_T1	11	11	0	0.91	1.03	0.12	-0.98	-1.02	2	2	0	1200	1200	0
6/28/2024 22:44	41902	REED_T1	0	0	0	0	0	0	0.34	0.32	1	1	0	900	900	0
6/28/2024 22:44	43301	WATS_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/28/2024 22:44	59002	MIFF_T1	5	5	0	0.76	0.72	-0.04	0	0	0	0	0	0	0	0
6/28/2024 22:44	43302	WATS_T2	4	4	0	0.45	0.53	0.08	0	0	0	0	0	0	0	0
6/28/2024 22:44	53903	HALI_T2	0	2	2	0	1.25	1.25	0	0	0	0	0	0	0	0
6/28/2024 22:44	58003	WCAR_T1	1	1	0	1	1.2	0.2	0.85	0.84	0	0	0	0	0	0
6/28/2024 22:44	52402	GRPA_T2	2	0	-2	0.3	0	-0.3	-0.61	-0.5	0	0	0	0	0	0
6/28/2024 22:44	56803	BENV_T1	25	20	-5	0.4	0.43	0.03	0	0	0	0	0	0	0	0
6/28/2024 22:44	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	-0.17	-0.19	0	0	0	0	0	0
6/28/2024 22:44	43304	WATS_T2	0	1	1	0	0	0	-0.47	-0.48	0	0	0	0	0	0
6/28/2024 22:44	52501	PROG_T1	0	0	0	0	0	0	0.19	0.17	1	1	0	300	300	0
6/28/2024 22:44	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:44	20601	GRWO_T2	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
6/28/2024 22:44	55002	NEWP_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
6/28/2024 22:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:44	44301	BEAV_T2	0	0	0	0	0	0	0.07	-0.16	2	2	0	1200	1200	0
6/28/2024 22:44	53601	DALM_T2	1	1	0	1.2	1.2	0	-0.05	-0.06	0	0	0	0	0	0
6/28/2024 22:44	20603	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:44	59101	WALK_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
6/28/2024 22:44	20403	ASHF_T2	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
6/28/2024 22:44	40601	PIGR_T1	2	84	82	0.1	0.19	0.09	-0.07	-0.08	0	0	0	0	0	0
6/28/2024 22:44	41602	CLEV_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/28/2024 22:44	20401	ASHF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/28/2024 22:45	45802	HEGI_T2	42	42	0	0.7	0.62	-0.08	0.7	0.77	1	1	0	300	300	0
6/28/2024 22:45	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/28/2024 22:45	55101	WERT_T1	0	0	0	0	0	0	-2.26	-2.31	4	4	0	3000	3000	0
6/28/2024 22:45	58401	MORO_T1	0	0	0	0	0	0	-0.72	-0.74	1	1	0	600	600	0
6/28/2024 22:45	44801	EDAN_T2	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
6/28/2024 22:45	46803	HEPB_T2	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
6/28/2024 22:45	43402	BENT_T1	3	3	0	0.13	0.5	0.37	0.04	0.03	0	0	0	0	0	0
6/28/2024 22:45	21203	ECAR_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
6/28/2024 22:45	47401	PENS_T1	0	0	0	0	0	0	-0.36	-0.48	0	0	0	0	0	0
6/28/2024 22:45	42503	ALTA_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
6/28/2024 22:45	67201	TEHI_T1	0	0	0	0	0	0	-1.09	-0.13	1	0	-1	900	0	-900
6/28/2024 22:45	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:45	59201	THOM_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/28/2024 22:45	20603	GRWO_T2	1	1	0	0.1	0.1	0	0.47	0.47	0	0	0	0	0	0
6/28/2024 22:45	59202	THOM_T1	11	10	-1	0.12	0.13	0.01	0	0	0	0	0	0	0	0
6/28/2024 22:45	41602	CLEV_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/28/2024 22:45	43304	WATS_T2	0	1	1	0	0	0	-0.47	-0.48	0	0	0	0	0	0
6/28/2024 22:45	56801	BENV_T1	9	11	2	1.09	1.12	0.03	-1.47	-1.53	3	3	0	1800	1800	0
6/28/2024 22:45	51306	WIND_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
6/28/2024 22:45	64101	REFR_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
6/28/2024 22:45	43302	WATS_T2	4	4	0	0.15	0.53	0.38	0	0	0	0	0	0	0	0
6/28/2024 22:45	56501	ROCK_T2	2	4	2	3.4	1.98	-1.42	-0.18	-0.2	0	0	0	0	0	0
6/28/2024 22:45	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.45	-0.47	0	0	0	0	0	0
6/28/2024 22:45	62102	ELAN_T1	0	0	0	0	0	0	1.15	1	0	0	0	0	0	0
6/28/2024 22:45	43301	WATS_T2	1	2	1	0.1	0.3	0.2	-0.48	-0.49	1	1	0	900	900	0
6/28/2024 22:45	67605	WARW_T1	5	3	-2	0.32	0.23	-0.09	-1.24	-1.28	0	0	0	0	0	0
6/28/2024 22:45	40802	EXCH_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
6/28/2024 22:45	59102	WALK_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
6/28/2024 22:45	24901	WHHA_T1	1	0	-1	0.2	0	-0.2	0.62	0.61	0	0	0	0	0	0
6/28/2024 22:45	67602	WARW_T2	0	0	0	0	0	0	0.08	0.05	1	1	0	1200	1200	0
6/28/2024 22:45	56803	BENV_T1	14	20	6	0.3	0.45	0.15	-0.9	-0.92	1	1	0	600	600	0
6/28/2024 22:46	44801	EDAN_T2	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
6/28/2024 22:46	67605	WARW_T1	5	3	-2	0.32	0.23	-0.09	-1.24	-1.28	0	0	0	0	0	0
6/28/2024 22:46	40601	PIGR_T1	19	163	144	0.16	0.28	0.12	-0.07	-0.08	0	0	0	0	0	0
6/28/2024 22:46	47401	PENS_T1	0	0	0	0	0	0	-0.18	-0.24	0	0	0	0	0	0
6/28/2024 22:46	64101	REFR_T1	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
6/28/2024 22:46	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:46	56801	BENV_T1	9	11	2	1.09	1.12	0.03	-0.49	-0.51	1	1	0	600	600	0
6/28/2024 22:46	40902	JESH_T1	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
6/28/2024 22:46	53902	HALI_T2	1	1	0	4.8	5.7	0.9	0	0	0	0	0	0	0	0
6/28/2024 22:46	44301	BEAV_T2	0	0	0	0	0	0	0.07	-0.16	2	2	0	1200	1200	0
6/28/2024 22:46	40901	JESH_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
6/28/2024 22:46	56802	BENV_T2	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
6/28/2024 22:46	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.45	-0.47	0	0	0	0	0	0
6/28/2024 22:46	23001	SAJO_T1	1	3	2	0.7	0.27	-0.43	0.18	0.16	0	0	0	0	0	0
6/28/2024 22:46	54503	ENOL_T2	0	0	0	0	0	0	-0.95	-0.98	1	1	0	600	600	0
6/28/2024 22:46	43301	WATS_T2	1	2	1	0.1	0.3	0.2	-0.48	-0.49	1	1	0	900	900	0
6/28/2024 22:46	53903	HALI_T2	2	3	1	1	1.25	0.25	0.04	0.03	0	0	0	0	0	0
6/28/2024 22:46	43302	WATS_T2	4	4	0	0.15	0.53	0.38	0	0	0	0	0	0	0	0
6/28/2024 22:46	47802	MOCA_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
6/28/2024 22:46	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:46	52004	LING_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
6/28/2024 22:46	51401	LYKE_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
6/28/2024 22:46	56803	BENV_T1	14	20	6	0.3	0.45	0.15	-0.9	-0.92	1	1	0	600	600	0
6/28/2024 22:46	53901	HALI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/28/2024 22:47	52002	LING_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
6/28/2024 22:47	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:47	56501	ROCK_T2	2	4	2	3.4	1.98	-1.42	-0.18	-0.2	0	0	0	0	0	0
6/28/2024 22:47	43301	WATS_T2	1	2	1	0.1	0.3	0.2	-0.48	-0.49	1	1	0	900	900	0
6/28/2024 22:47	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:47	40603	PIGR_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
6/28/2024 22:47	58401	MORO_T1	0	0	0	0	0	0	-1.44	-1.48	2	2	0	1200	1200	0
6/28/2024 22:47	55002	NEWP_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
6/28/2024 22:47	56504	ROCK_T2	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
6/28/2024 22:47	47401	PENS_T1	0	0	0	0	0	0	-0.18	-0.24	0	0	0	0	0	0
6/28/2024 22:47	43302	WATS_T2	4	4	0	0.15	0.53	0.38	0	0	0	0	0	0	0	0
6/28/2024 22:47	43402	BENT_T1	3	3	0	0.13	0.5	0.37	0.04	0.03	0	0	0	0	0	0
6/28/2024 22:47	44801	EDAN_T2	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
6/28/2024 22:47	52404	GRPA_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
6/28/2024 22:47	25603	ARRO_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
6/28/2024 22:47	46801	HEPB_T2	0	0	0	0	0	0	0.76	0.75	0	0	0	0	0	0
6/28/2024 22:47	40601	PIGR_T1	19	163	144	0.16	0.28	0.12	0	0	0	0	0	0	0	0
6/28/2024 22:47	13502	MCMI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:47	41602	CLEV_T1	1	0	-1	0.6	0	-0.6	0	0	1	1	0	600	600	0
6/28/2024 22:48	56803	BENV_T1	14	20	6	0.3	0.45	0.15	0	0	0	0	0	0	0	0
6/28/2024 22:48	49803	UNIV_T1	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
6/28/2024 22:48	56801	BENV_T1	9	11	2	1.09	1.12	0.03	-0.49	-0.51	1	1	0	600	600	0
6/28/2024 22:48	52402	GRPA_T2	0	0	0	0	0	0	-0.61	-0.5	0	0	0	0	0	0
6/28/2024 22:48	64101	REFR_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
6/28/2024 22:48	49804	UNIV_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
6/28/2024 22:48	47802	MOCA_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
6/28/2024 22:48	52403	GRPA_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
6/28/2024 22:48	47401	PENS_T1	0	0	0	0	0	0	-0.18	-0.24	0	0	0	0	0	0
6/28/2024 22:48	52002	LING_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
6/28/2024 22:48	46203	DANV_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
6/28/2024 22:48	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:48	55002	NEWP_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
6/28/2024 22:49	53903	HALI_T2	2	3	1	1	1.25	0.25	0.04	0.03	0	0	0	0	0	0
6/28/2024 22:49	53902	HALI_T2	1	1	0	4.8	5.7	0.9	0	0	0	0	0	0	0	0
6/28/2024 22:49	41902	REED_T1	0	0	0	0	0	0	0.34	0.32	1	1	0	900	900	0
6/28/2024 22:49	43304	WATS_T2	0	1	1	0	0	0	-0.47	-0.48	0	0	0	0	0	0
6/28/2024 22:49	40902	JESH_T1	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
6/28/2024 22:49	65802	RTWN_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
6/28/2024 22:49	59101	WALK_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
6/28/2024 22:49	65803	RTWN_T2	2	11	9	0.1	0.24	0.14	0	0	0	0	0	0	0	0
6/28/2024 22:49	53901	HALI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/28/2024 22:49	56801	BENV_T1	9	11	2	1.09	1.12	0.03	-0.49	-0.51	1	1	0	600	600	0
6/28/2024 22:49	40901	JESH_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
6/28/2024 22:49	43302	WATS_T2	4	4	0	0.15	0.53	0.38	0	0	0	0	0	0	0	0
6/28/2024 22:49	43301	WATS_T2	1	2	1	0.1	0.3	0.2	-0.48	-0.49	1	1	0	900	900	0
6/28/2024 22:49	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:49	67204	TEHI_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
6/28/2024 22:49	42903	MIDD_T2	2	2	0	0.55	0.15	-0.4	0	0	0	0	0	0	0	0
6/28/2024 22:49	42902	MIDD_T2	0	0	0	0	0	0	-1.17	-1.19	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/28/2024 22:49	41901	REED_T1	2	3	1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/28/2024 22:49	56803	BENV_T1	14	20	6	0.3	0.45	0.15	0	0	0	0	0	0	0	0
6/28/2024 22:49	52402	GRPA_T2	0	0	0	0	0	0	-0.61	-0.5	0	0	0	0	0	0
6/28/2024 22:49	46203	DANV_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
6/28/2024 22:50	52403	GRPA_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
6/28/2024 22:50	53901	HALI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/28/2024 22:50	47401	PENS_T1	0	0	0	0	0	0	-0.36	-0.48	0	0	0	0	0	0
6/28/2024 22:50	42902	MIDD_T2	0	0	0	0	0	0	-1.17	-1.19	1	1	0	600	600	0
6/28/2024 22:50	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/28/2024 22:50	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.9	-0.94	0	0	0	0	0	0
6/28/2024 22:50	44301	BEAV_T2	0	0	0	0	0	0	0.04	-0.08	1	1	0	600	600	0
6/28/2024 22:50	55101	WERT_T1	0	0	0	0	0	0	-2.26	-2.31	4	4	0	3000	3000	0
6/28/2024 22:50	67605	WARW_T1	5	3	-2	0.32	0.23	-0.09	-1.24	-1.28	0	0	0	0	0	0
6/28/2024 22:50	56803	BENV_T1	14	20	6	0.3	0.45	0.15	0	0	0	0	0	0	0	0
6/28/2024 22:50	67805	WLAN_T1	0	0	0	0	0	0	-1.25	-1.28	0	0	0	0	0	0
6/28/2024 22:50	42903	MIDD_T2	2	2	0	0.55	0.15	-0.4	0	0	0	0	0	0	0	0
6/28/2024 22:50	53902	HALI_T2	1	1	0	4.8	5.7	0.9	0	0	0	0	0	0	0	0
6/28/2024 22:50	56801	BENV_T1	9	11	2	1.09	1.12	0.03	-0.49	-0.51	1	1	0	600	600	0
6/28/2024 22:50	53903	HALI_T2	2	3	1	1	1.25	0.25	0.04	0.03	0	0	0	0	0	0
6/28/2024 22:51	40801	EXCH_T2	0	0	0	0	0	0	-0.27	-0.29	1	1	0	1200	1200	0
6/28/2024 22:51	41901	REED_T1	2	3	1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/28/2024 22:51	44301	BEAV_T2	0	0	0	0	0	0	-0.08	-0.09	1	1	0	600	600	0
6/28/2024 22:51	41902	REED_T1	0	0	0	0	0	0	0.34	0.32	1	1	0	900	900	0
6/28/2024 22:52	43301	WATS_T2	1	2	1	0.1	0.3	0.2	-0.49	-0.5	1	1	0	900	900	0
6/28/2024 22:52	52002	LING_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
6/28/2024 22:52	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/28/2024 22:52	56803	BENV_T1	14	20	6	0.3	0.45	0.15	0	0	0	0	0	0	0	0
6/28/2024 22:52	43302	WATS_T2	4	4	0	0.15	0.53	0.38	0	0	0	0	0	0	0	0
6/28/2024 22:52	56801	BENV_T1	9	11	2	1.09	1.12	0.03	-0.51	-0.53	1	1	0	600	600	0
6/28/2024 22:52	67402	WAKE_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
6/28/2024 22:53	58402	MORO_T1	0	0	0	0	0	0	-0.37	-0.38	2	2	0	1500	1500	0
6/28/2024 22:54	55001	NEWP_T1	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
6/28/2024 22:58	56501	ROCK_T2	2	4	2	3.4	1.98	-1.42	0	0	0	0	0	0	0	0
6/28/2024 22:58	56504	ROCK_T2	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
6/28/2024 23:05	67001	STHI_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
6/28/2024 23:27	24105	EHAZ_T1	4	4	0	6.83	6.68	-0.15	0	0	0	0	0	0	0	0
6/28/2024 23:27	24102	EHAZ_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
6/28/2024 23:32	56504	ROCK_T2	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
6/28/2024 23:32	56501	ROCK_T2	4	4	0	1.53	1.63	0.1	0	0	0	0	0	0	0	0
6/28/2024 23:34	56501	ROCK_T2	4	4	0	1.53	1.63	0.1	-0.25	-0.28	0	0	0	0	0	0
6/28/2024 23:52	56504	ROCK_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
6/28/2024 23:52	56501	ROCK_T2	4	2	-2	2.33	2	-0.33	0	0	0	0	0	0	0	0
6/29/2024 0:09	64101	REFR_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
6/29/2024 0:24	59002	MIFF_T1	0	5	5	0	0.36	0.36	0	0	0	0	0	0	0	0
6/29/2024 0:24	59003	MIFF_T1	0	1	1	0	0.6	0.6	-0.45	-0.46	0	0	0	0	0	0
6/29/2024 1:14	59202	THOM_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
6/29/2024 1:57	22701	MINO_T1	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
6/29/2024 2:47	64203	KINZ_T1	190	180	-10	0.32	0.29	-0.03	0.28	0.27	0	0	0	0	0	0
6/29/2024 2:47	64201	KINZ_T1	117	113	-4	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
6/29/2024 2:47	64204	KINZ_T1	46	42	-4	0.5	0.52	0.02	0	0	0	0	0	0	0	0
6/29/2024 2:47	64202	KINZ_T1	67	67	0	0.42	0.39	-0.03	0	0	0	0	0	0	0	0
6/29/2024 5:06	61301	EARL_T1	0	0	0	0	0	0	-0.44	-0.44	1	1	0	900	900	0
6/29/2024 5:08	65901	SAKR_T2	1	1	0	8.5	8.7	0.2	-0.98	-1.15	1	1	0	900	900	0
6/29/2024 7:15	63305	GREE_T1	0	0	0	0	0	0	-2.09	-2.07	1	1	0	900	900	0
6/29/2024 7:26	63305	GREE_T1	0	0	0	0	0	0	-2.07	-2.05	1	1	0	900	900	0
6/29/2024 7:40	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 7:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 7:50	66202	SISP_T2	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
6/29/2024 7:51	66202	SISP_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
6/29/2024 7:52	67505	WEWI_T1	0	0	0	0	0	0	0	0.03	1	1	0	900	900	0
6/29/2024 7:54	67505	WEWI_T1	0	0	0	0	0	0	0	0.03	1	1	0	900	900	0
6/29/2024 7:59	12006	HATF_T1	0	0	0	0	0	0	0.66	0.8	0	0	0	0	0	0
6/29/2024 8:26	47101	MARL_T1	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
6/29/2024 8:30	42901	MIDD_T2	83	54	-29	0.15	0.15	0	0	0	0	0	0	0	0	0
6/29/2024 8:30	42903	MIDD_T2	2	2	0	2.4	2.25	-0.15	0	0	0	0	0	0	0	0
6/29/2024 8:30	42902	MIDD_T2	54	53	-1	0.35	0.33	-0.02	-0.56	-0.55	0	0	0	0	0	0
6/29/2024 8:34	58402	MORO_T1	0	0	0	0	0	0	-0.18	-0.21	2	2	0	1500	1500	0
6/29/2024 8:36	58006	WCAR_T2	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
6/29/2024 8:44	63804	HEMP_T1	1	1	0	6.1	5.7	-0.4	0	0	0	0	0	0	0	0
6/29/2024 8:44	63801	HEMP_T1	0	0	0	0	0	0	-0.96	-0.92	1	1	0	900	900	0
6/29/2024 9:02	42902	MIDD_T2	31	23	-8	0.29	0.29	0	-0.54	-0.53	0	0	0	0	0	0
6/29/2024 9:02	42901	MIDD_T2	23	4	-19	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
6/29/2024 9:02	42903	MIDD_T2	2	2	0	2.05	2.1	0.05	0	0	0	0	0	0	0	0
6/29/2024 9:04	46102	MACI_T1	0	0	0	0	0	0	0.93	0.93	0	0	0	0	0	0
6/29/2024 9:15	46102	MACI_T1	0	0	0	0	0	0	0.93	0.93	0	0	0	0	0	0
6/29/2024 9:17	46101	MACI_T2	0	0	0	0	0	0	-0.06	-0.06	1	1	0	1200	1200	0
6/29/2024 9:18	65206	PRIN_T4	0	2	2	0	7.2	7.2	0	0	0	0	0	0	0	0
6/29/2024 9:18	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/29/2024 9:20	56501	ROCK_T2	2	0	-2	1.55	0	-1.55	-0.37	-1.65	0	0	0	0	0	0
6/29/2024 9:22	56501	ROCK_T2	2	0	-2	1.55	0	-1.55	-1.65	-1.62	0	0	0	0	0	0
6/29/2024 9:23	56501	ROCK_T2	2	0	-2	1.55	0	-1.55	-1.65	-1.62	0	0	0	0	0	0
6/29/2024 9:25	59101	WALK_T2	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
6/29/2024 9:33	65004	NEFF_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	600	600	0
6/29/2024 9:44	63304	GREE_T1	0	0	0	0	0	0	-1.29	-1.27	0	0	0	0	0	0
6/29/2024 9:45	63304	GREE_T1	0	0	0	0	0	0	-1.29	-1.27	0	0	0	0	0	0
6/29/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-1.28	-1.28	2	2	0	1800	1800	0
6/29/2024 10:00	62102	ELAN_T1	0	1	1	0	0.8	0.8	0.99	1.03	0	0	0	0	0	0
6/29/2024 10:00	64201	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/29/2024 10:00	56802	BENV_T2	0	0	0	0	0	0	-1.16	-1.14	0	0	0	0	0	0
6/29/2024 10:00	52001	LING_T1	0	0	0	0	0	0	-0.84	-0.81	0	0	0	0	0	0
6/29/2024 10:00	64802	MONE_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
6/29/2024 10:00	40505	CRES_T1	3	3	0	3.13	3.17	0.04	0.49	0.47	0	0	0	0	0	0
6/29/2024 10:00	64204	KINZ_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
6/29/2024 10:00	67502	WEWI_T2	0	0	0	0	0	0	-1.14	-1.03	1	1	0	900	900	0
6/29/2024 10:00	67605	WARW_T1	0	0	0	0	0	0	-0.94	-0.96	0	0	0	0	0	0
6/29/2024 10:00	64203	KINZ_T1	0	0	0	0	0	0	1	1.08	1	1	0	600	600	0
6/29/2024 10:00	61304	EARL_T1	19	0	-19	0.17	0	-0.17	0	0	0	0	0	0	0	0
6/29/2024 10:00	64801	MONE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.21	0.16	0	0	0	0	0	0
6/29/2024 10:05	13302	ORVI_T2	2	2	0	0.4	0.45	0.05	3.04	3.32	0	0	0	0	0	0
6/29/2024 10:11	58006	WCAR_T2	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
6/29/2024 10:13	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 10:17	20601	GRWO_T2	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
6/29/2024 10:17	20603	GRWO_T2	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
6/29/2024 10:21	56501	ROCK_T2	0	1	1	0	0	0	-3.13	-3.07	0	0	0	0	0	0
6/29/2024 10:21	13303	ORVI_T1	0	0	0	0	0	0	0.03	0.06	0	0	0	0	0	0
6/29/2024 10:22	41902	REED_T1	0	0	0	0	0	0	0.53	0.54	2	2	0	1800	1800	0
6/29/2024 10:23	56501	ROCK_T2	0	1	1	0	0	0	-1.54	-1.51	0	0	0	0	0	0
6/29/2024 10:24	10602	BLGL_T2	0	0	0	0	0	0	0.28	0.31	0	0	0	0	0	0
6/29/2024 10:27	42201	SHEN_T2	0	0	0	0	0	0	0.76	0.78	0	0	0	0	0	0
6/29/2024 10:28	42201	SHEN_T2	0	0	0	0	0	0	0.76	0.78	0	0	0	0	0	0
6/29/2024 10:32	42204	SHEN_T2	0	0	0	0	0	0	-0.85	-0.85	1	1	0	1200	1200	0
6/29/2024 10:33	43304	WATS_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
6/29/2024 10:35	52004	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 10:35	52002	LING_T2	0	2	2	0	0	0	0.3	0.37	0	0	0	0	0	0
6/29/2024 10:37	67203	TEHI_T1	0	0	0	0	0	0	1.61	1.65	1	1	0	900	900	0
6/29/2024 10:39	67203	TEHI_T1	0	0	0	0	0	0	1.61	1.65	1	1	0	900	900	0
6/29/2024 10:41	29402	BELT_T1	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
6/29/2024 10:41	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/29/2024 10:42	20401	ASHF_T2	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
6/29/2024 10:42	22002	BOHE_T1	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0	0
6/29/2024 10:42	22003	BOHE_T1	309	323	14	0.5	0.5	0	0	0	0	0	0	0	0	0
6/29/2024 10:42	22001	BOHE_T1	88	113	25	0.19	0.2	0.01	0.34	0.34	0	0	0	0	0	0
6/29/2024 10:42	20403	ASHF_T2	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
6/29/2024 10:43	22002	BOHE_T1	6	6	0	0.12	0.12	0	0.46	0.47	0	0	0	0	0	0
6/29/2024 10:43	45802	HEGI_T2	26	0	-26	0.39	0	-0.39	0.52	0.53	0	0	0	0	0	0
6/29/2024 10:43	22001	BOHE_T1	88	113	25	0.19	0.2	0.01	0	0	0	0	0	0	0	0
6/29/2024 10:43	22003	BOHE_T1	309	323	14	0.5	0.5	0	0	0	0	0	0	0	0	0
6/29/2024 10:44	63304	GREE_T1	0	0	0	0	0	0	-2.39	-2.43	0	0	0	0	0	0
6/29/2024 10:46	63304	GREE_T1	0	0	0	0	0	0	-2.39	-2.43	0	0	0	0	0	0
6/29/2024 10:47	45802	HEGI_T2	0	11	11	0	0.45	0.45	0.52	0.53	0	0	0	0	0	0
6/29/2024 10:49	59003	MIFF_T1	1	0	-1	0.1	0	-0.1	-1.23	-0.17	0	0	0	0	0	0
6/29/2024 10:49	59002	MIFF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/29/2024 10:55	61306	EARL_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
6/29/2024 11:04	64101	REFR_T1	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
6/29/2024 11:05	46102	MACI_T1	0	0	0	0	0	0	0.92	1.11	0	0	0	0	0	0
6/29/2024 11:05	64101	REFR_T1	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
6/29/2024 11:06	58202	NEWV_T1	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
6/29/2024 11:06	64101	REFR_T1	0	0	0	0	0	0	0.52	0.55	0	0	0	0	0	0
6/29/2024 11:07	64101	REFR_T1	0	0	0	0	0	0	0.52	0.55	0	0	0	0	0	0
6/29/2024 11:08	64101	REFR_T1	0	0	0	0	0	0	0.52	0.55	0	0	0	0	0	0
6/29/2024 11:12	16302	ALPA_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
6/29/2024 11:15	67603	WARW_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
6/29/2024 11:17	23202	HIRU_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
6/29/2024 11:19	22602	KIMB_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/29/2024 11:21	67804	WLAN_T1	10	10	0	0.54	0.67	0.13	0	0	0	0	0	0	0	0
6/29/2024 11:21	67801	WLAN_T1	0	1	1	0	0	0	0.02	0.1	0	0	0	0	0	0
6/29/2024 11:23	44302	BEAV_T2	0	3	3	0	0.2	0.2	0.58	0.55	0	0	0	0	0	0
6/29/2024 11:23	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 11:25	44302	BEAV_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
6/29/2024 11:25	44301	BEAV_T2	0	1	1	0	0	0	-0.01	0	1	1	0	600	600	0
6/29/2024 11:25	60101	COCA_T1	0	0	0	0	0	0	0.65	0.68	0	0	0	0	0	0
6/29/2024 11:26	44301	BEAV_T2	0	1	1	0	0	0	-0.01	0	1	1	0	600	600	0
6/29/2024 11:26	44302	BEAV_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
6/29/2024 11:27	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 11:27	60102	COCA_T1	0	0	0	0	0	0	-0.85	-0.87	2	2	0	1200	1200	0
6/29/2024 11:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/29/2024 11:28	44302	BEAV_T2	0	3	3	0	0.2	0.2	0.58	0.55	0	0	0	0	0	0
6/29/2024 11:28	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 11:32	63501	HEID_TBK1-2	0	0	0	0	0	0	0.05	0.05	1	1	0	900	900	0
6/29/2024 11:33	46101	MACI_T2	0	0	0	0	0	0	-0.39	-0.4	1	1	0	1200	1200	0
6/29/2024 11:39	29402	BELT_T1	0	118	118	0	0.61	0.61	0	0	0	0	0	0	0	0
6/29/2024 11:39	16302	ALPA_T2	0	0	0	0	0	0	-0.72	-0.81	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/29/2024 11:39	29401	BELT_T1	0	31	31	0	0.21	0.21	0	0	0	0	0	0	0	0
6/29/2024 11:39	66703	STRA_T1	0	0	0	0	0	0	-0.58	-0.52	0	0	0	0	0	0
6/29/2024 11:40	66702	STRA_T1	0	0	0	0	0	0	-0.95	-0.96	2	2	0	1500	1500	0
6/29/2024 11:41	16302	ALPA_T2	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
6/29/2024 11:41	16301	ALPA_T1	0	0	0	0	0	0	0.13	0.17	0	0	0	0	0	0
6/29/2024 11:46	63401	HONY_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
6/29/2024 11:46	63804	HEMP_T1	1	1	0	6.9	7.2	0.3	-0.18	-0.15	0	0	0	0	0	0
6/29/2024 11:48	45702	LIND_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
6/29/2024 11:48	65001	NEFF_T2	0	0	0	0	0	0	-0.55	-0.56	1	1	0	1200	1200	0
6/29/2024 11:48	65603	QVIL_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
6/29/2024 11:49	12801	MICK_T1	0	0	0	0	0	0	-0.63	-0.59	1	1	0	600	600	0
6/29/2024 11:49	12803	MICK_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
6/29/2024 11:53	65803	RTWN_T2	9	7	-2	0.17	0.17	0	0	0	0	0	0	0	0	0
6/29/2024 11:53	65802	RTWN_T2	0	1	1	0	0.3	0.3	0.26	0.29	0	0	0	0	0	0
6/29/2024 11:53	67901	WNHO_T2	3	48	45	0.43	0.34	-0.09	-0.05	-0.06	0	0	0	0	0	0
6/29/2024 12:04	66203	SISP_T2	0	0	0	0	0	0	-1.04	-0.96	1	1	0	1200	1200	0
6/29/2024 12:04	40101	HUNT_T2	93	114	21	0.59	0.66	0.07	-0.4	-0.4	0	0	0	0	0	0
6/29/2024 12:06	65604	QVIL_T2	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
6/29/2024 12:07	66505	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
6/29/2024 12:07	55101	WERT_T1	1	0	-1	0.2	0	-0.2	-1.99	-2.04	4	4	0	3300	3300	0
6/29/2024 12:07	66504	SMAN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
6/29/2024 12:07	66503	SMAN_T2	0	0	0	0	0	0	0.78	0.8	0	0	0	0	0	0
6/29/2024 12:07	65604	QVIL_T2	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
6/29/2024 12:08	67605	WARW_T1	0	1	1	0	0.4	0.4	-0.89	-0.99	0	0	0	0	0	0
6/29/2024 12:09	67605	WARW_T1	0	1	1	0	0.4	0.4	-0.89	-0.99	0	0	0	0	0	0
6/29/2024 12:09	29402	BELT_T1	87	39	-48	0.57	0.37	-0.2	0	0	0	0	0	0	0	0
6/29/2024 12:09	29401	BELT_T1	18	3	-15	0.12	0.1	-0.02	0	0	1	1	0	900	900	0
6/29/2024 12:10	58003	WCAR_T1	1	1	0	1.1	1.2	0.1	0.18	0.19	1	1	0	600	600	0
6/29/2024 12:10	29401	BELT_T1	18	3	-15	0.12	0.1	-0.02	0	0	1	1	0	900	900	0
6/29/2024 12:10	55101	WERT_T1	1	0	-1	0.2	0	-0.2	-1.99	-2.04	4	4	0	3300	3300	0
6/29/2024 12:10	67605	WARW_T1	0	1	1	0	0.4	0.4	-0.89	-0.99	0	0	0	0	0	0
6/29/2024 12:10	58001	WCAR_T1	4	4	0	0.55	0.68	0.13	0	0	0	0	0	0	0	0
6/29/2024 12:10	29402	BELT_T1	87	39	-48	0.57	0.37	-0.2	0	0	0	0	0	0	0	0
6/29/2024 12:11	67605	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/29/2024 12:11	58003	WCAR_T1	1	1	0	1.1	1.2	0.1	0.18	0.19	1	1	0	600	600	0
6/29/2024 12:11	67604	WARW_T1	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
6/29/2024 12:11	11901	ETEX_T2	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
6/29/2024 12:11	58001	WCAR_T1	4	4	0	0.55	0.68	0.13	0	0	0	0	0	0	0	0
6/29/2024 12:11	55101	WERT_T1	1	0	-1	0.2	0	-0.2	-5.98	-6.12	12	12	0	9900	9900	0
6/29/2024 12:12	29401	BELT_T1	18	3	-15	0.12	0.1	-0.02	0	0	1	1	0	900	900	0
6/29/2024 12:12	29402	BELT_T1	87	39	-48	0.57	0.37	-0.2	0	0	0	0	0	0	0	0
6/29/2024 12:22	58003	WCAR_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
6/29/2024 12:22	58001	WCAR_T1	4	1	-3	0.68	0.1	-0.58	-1.23	-1.12	0	0	0	0	0	0
6/29/2024 12:26	65205	PRIN_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/29/2024 12:33	28704	HAML_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
6/29/2024 12:35	67605	WARW_T1	0	0	0	0	0	0	-0.99	-1	0	0	0	0	0	0
6/29/2024 12:35	66703	STRA_T1	0	0	0	0	0	0	-0.41	-0.32	0	0	0	0	0	0
6/29/2024 12:37	66701	STRA_T1	0	0	0	0	0	0	0.36	0.41	1	1	0	600	600	0
6/29/2024 12:37	67002	STHI_T2	0	0	0	0	0	0	1.12	1.15	0	0	0	0	0	0
6/29/2024 12:37	66703	STRA_T1	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
6/29/2024 12:38	20401	ASHF_T2	1	2	1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/29/2024 12:38	20403	ASHF_T2	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
6/29/2024 12:42	21203	ECAR_T1	1	0	-1	0.2	0	-0.2	0.61	0.61	0	0	0	0	0	0
6/29/2024 12:43	20403	ASHF_T2	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
6/29/2024 12:43	20401	ASHF_T2	1	2	1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
6/29/2024 12:45	58001	WCAR_T1	1	0	-1	0.1	0	-0.1	-1.12	-1.11	0	0	0	0	0	0
6/29/2024 12:45	58003	WCAR_T1	1	0	-1	0.1	0.8	-0.1	0	0	0	0	0	0	0	0
6/29/2024 12:48	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 12:48	21206	ECAR_T2	1	1	0	7.8	7.7	-0.1	0.16	0.19	0	0	0	0	0	0
6/29/2024 12:50	66201	SISP_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
6/29/2024 12:52	58402	MORO_T1	0	0	0	0	0	0	-0.94	-0.93	3	3	0	2400	2400	0
6/29/2024 12:53	67605	WARW_T1	0	0	0	0	0	0	-0.98	-0.96	0	0	0	0	0	0
6/29/2024 12:56	61304	EARL_T1	0	0	0	0	0	0	0	-0.01	1	1	0	600	600	0
6/29/2024 13:03	13503	MCMI_T2	2	6	4	0.1	0.42	0.32	-0.83	-0.82	0	0	0	0	0	0
6/29/2024 13:04	60502	NMAN_T2	1	1	0	0.2	0.1	-0.1	0.3	0.31	0	0	0	0	0	0
6/29/2024 13:04	60501	NMAN_T2	3	3	0	2.9	2.9	0	0	0	0	0	0	0	0	0
6/29/2024 13:05	64101	REFR_T1	10	5	-5	0.75	1.27	0.52	0.43	0.46	0	0	0	0	0	0
6/29/2024 13:06	66701	STRA_T1	0	0	0	0	0	0	0.39	0.4	1	1	0	600	600	0
6/29/2024 13:06	12802	MICK_T1	0	0	0	0	0	0	-0.85	-0.84	0	0	0	0	0	0
6/29/2024 13:06	66504	SMAN_T2	7	7	0	0.46	0.61	0.15	0	0	0	0	0	0	0	0
6/29/2024 13:06	66505	SMAN_T2	2	11	9	0.35	0.58	0.23	0.22	0.05	4	4	0	2300	2300	0
6/29/2024 13:06	66703	STRA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 13:06	12803	MICK_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
6/29/2024 13:07	60502	NMAN_T2	1	1	0	0.2	0.1	-0.1	0.31	0.32	0	0	0	0	0	0
6/29/2024 13:07	60501	NMAN_T2	3	3	0	2.9	2.9	0	0	0	0	0	0	0	0	0
6/29/2024 13:08	67901	WNHO_T2	8	10	2	0.64	0.51	-0.13	-0.07	-0.05	0	0	0	0	0	0
6/29/2024 13:10	60201	ATGL_T2	0	0	0	0	0	0	-0.23	-0.14	2	2	0	900	900	0
6/29/2024 13:12	41303	FISH_T1	1	1	0	2.6	3.3	0.7	0	0	0	0	0	0	0	0
6/29/2024 13:12	41301	FISH_T1	2	3	1	1.2	0.93	-0.27	-0.07	-0.07	0	0	0	0	0	0
6/29/2024 13:13	41301	FISH_T1	2	3	1	1.2	0.93	-0.27	-0.07	-0.07	0	0	0	0	0	0
6/29/2024 13:13	41303	FISH_T1	1	1	0	2.6	3.3	0.7	0	0	0	0	0	0	0	0
6/29/2024 13:15	40101	HUNT_T2	132	115	-17	0.93	0.73	-0.2	-0.37	-0.36	0	0	0	0	0	0
6/29/2024 13:22	66703	STRA_T1	0	2	2	0	0	0	-0.25	-0.26	0	0	0	0	0	0
6/29/2024 13:22	63601	LETO_T1	0	0	0	0	0	0	0.41	0.43	3	3	0	2700	2700	0
6/29/2024 13:25	67904	WNHO_T1	0	0	0	0	0	0	-1.86	-1.86	2	2	0	2100	2100	0
6/29/2024 13:35	67203	TEHI_T1	1	1	0	0.4	0.5	0.1	1.79	1.81	1	1	0	900	900	0
6/29/2024 13:35	13503	MCMI_T2	0	0	0	0	0	0	-0.82	-0.82	0	0	0	0	0	0
6/29/2024 13:45	20601	GRWO_T2	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
6/29/2024 13:52	55101	WERT_T1	0	1	1	0	0	0	-1.9	-1.88	4	4	0	3300	3300	0
6/29/2024 13:53	55101	WERT_T1	0	1	1	0	0	0	-1.9	-1.88	4	4	0	3300	3300	0
6/29/2024 13:55	55101	WERT_T1	0	1	1	0	0	0	-1.9	-1.88	4	4	0	3300	3300	0
6/29/2024 13:56	55101	WERT_T1	0	1	1	0	0	0	-5.71	-5.65	12	12	0	9900	9900	0
6/29/2024 13:56	60201	ATGL_T2	0	0	0	0	0	0	-0.09	0	2	2	0	900	900	0
6/29/2024 14:01	52404	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 14:01	52403	GRPA_T2	44	52	8	0.7	0.57	-0.13	-0.32	-0.31	0	0	0	0	0	0
6/29/2024 14:01	52402	GRPA_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/29/2024 14:01	52401	GRPA_T2	4	3	-1	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/29/2024 14:02	52404	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 14:02	52403	GRPA_T2	44	52	8	0.7	0.57	-0.13	-0.32	-0.31	0	0	0	0	0	0
6/29/2024 14:02	52401	GRPA_T2	4	3	-1	0.23	0	-0.23	0	0	0	0	0	0	0	0
6/29/2024 14:02	52402	GRPA_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/29/2024 14:08	60801	BUCK_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	600	600	0
6/29/2024 14:15	63401	HONY_T1	0	0	0	0	0	0	0.28	0.37	0	0	0	0	0	0
6/29/2024 14:17	63401	HONY_T1	0	0	0	0	0	0	0.55	0.74	0	0	0	0	0	0
6/29/2024 14:17	46206	DANV_T2	3	2	-1	1.1	2.1	1	0.94	0.95	2	2	0	2100	2100	0
6/29/2024 14:18	59001	MIFF_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/29/2024 14:18	59003	MIFF_T1	0	0	0	0	0	0	-0.18	-0.25	0	0	0	0	0	0
6/29/2024 14:20	64101	REFR_T1	10	10	0	0.87	1.03	0.16	-0.05	-0.04	0	0	0	0	0	0
6/29/2024 14:20	65901	SAKR_T2	1	1	0	5.3	5.2	-0.1	-0.31	-0.21	2	2	0	1500	1500	0
6/29/2024 14:21	13501	MCMI_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
6/29/2024 14:22	66703	STRA_T1	4	8	4	0.58	0.75	0.17	-0.17	-0.21	0	0	0	0	0	0
6/29/2024 14:22	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 14:22	60301	TWVA_T2	0	0	0	0	0	0	-1.54	-1.45	2	2	0	1800	1800	0
6/29/2024 14:23	66203	SISP_T2	0	0	0	0	0	0	-0.84	-0.85	1	1	0	1200	1200	0
6/29/2024 14:23	59101	WALK_T2	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
6/29/2024 14:23	67602	WARW_T2	0	1	1	0	0	0	0.25	0.27	2	2	0	1500	1500	0
6/29/2024 14:24	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 14:24	66703	STRA_T1	4	8	4	0.58	0.75	0.17	-0.17	-0.21	0	0	0	0	0	0
6/29/2024 14:25	67602	WARW_T2	0	1	1	0	0	0	0.5	0.53	4	4	0	3000	3000	0
6/29/2024 14:26	67603	WARW_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
6/29/2024 14:27	67602	WARW_T2	0	1	1	0	0	0	0.25	0.27	2	2	0	1500	1500	0
6/29/2024 14:27	66505	SMAN_T2	6	22	16	0.23	0.43	0.2	0	0	0	0	0	0	0	0
6/29/2024 14:27	66504	SMAN_T2	7	3	-4	0.99	0.2	-0.79	0	0	0	0	0	0	0	0
6/29/2024 14:27	66502	SMAN_T2	0	0	0	0	0	0	-1.53	-1.65	1	1	0	900	900	0
6/29/2024 14:30	52401	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/29/2024 14:30	52404	GRPA_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
6/29/2024 14:30	52402	GRPA_T2	2	2	0	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/29/2024 14:30	52403	GRPA_T2	38	72	34	0.59	0.56	-0.03	0	0	0	0	0	0	0	0
6/29/2024 14:31	52404	GRPA_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
6/29/2024 14:31	40101	HUNT_T2	153	119	-34	1.16	0.55	-0.61	-0.33	-0.32	0	0	0	0	0	0
6/29/2024 14:31	52401	GRPA_T2	2	0	-2	0.2	0	-0.2	-0.21	-0.83	0	0	0	0	0	0
6/29/2024 14:31	52403	GRPA_T2	38	72	34	0.59	0.56	-0.03	-0.3	-0.01	0	0	0	0	0	0
6/29/2024 14:31	52402	GRPA_T2	2	2	0	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/29/2024 14:32	52401	GRPA_T2	2	0	-2	0.2	0	-0.2	-0.21	-0.83	0	0	0	0	0	0
6/29/2024 14:32	52402	GRPA_T2	2	2	0	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/29/2024 14:32	52403	GRPA_T2	38	72	34	0.59	0.56	-0.03	0	0	0	0	0	0	0	0
6/29/2024 14:33	54701	NEBL_T1	6	11	5	0.42	0.35	-0.07	0	0	1	1	0	600	600	0
6/29/2024 14:35	46206	DANV_T2	2	3	1	1.25	1.7	0.45	0	0	0	0	0	0	0	0
6/29/2024 14:35	46203	DANV_T2	0	0	0	0	0	0	-1.63	-1.65	0	0	0	0	0	0
6/29/2024 14:36	66703	STRA_T1	7	13	6	0.96	0.69	-0.27	0	0	0	0	0	0	0	0
6/29/2024 14:36	66701	STRA_T1	0	1	1	0	0	0	1.15	1.18	2	2	0	1200	1200	0
6/29/2024 14:37	66701	STRA_T1	0	1	1	0	0	0	0.57	0.59	1	1	0	600	600	0
6/29/2024 14:37	66901	SHIL_T2	0	0	0	0	0	0	0.48	-0.46	0	0	0	0	0	0
6/29/2024 14:37	66703	STRA_T1	7	13	6	0.96	0.69	-0.27	0	0	0	0	0	0	0	0
6/29/2024 14:38	66703	STRA_T1	7	13	6	0.96	0.69	-0.27	0	0	0	0	0	0	0	0
6/29/2024 14:38	66701	STRA_T1	0	1	1	0	0	0	0.57	0.59	1	1	0	600	600	0
6/29/2024 14:40	67903	WNHO_T1	0	0	0	0	0	0	1.39	1.48	1	1	0	1200	1200	0
6/29/2024 14:47	47802	MOCA_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
6/29/2024 14:49	46203	DANV_T2	0	0	0	0	0	0	-1.65	-1.63	0	0	0	0	0	0
6/29/2024 14:49	46206	DANV_T2	1	3	2	2.1	0.7	-1.4	0	0	0	0	0	0	0	0
6/29/2024 14:49	51003	NHAR_T1	0	0	0	0	0	0	-1.62	-1.62	1	1	0	1200	1200	0
6/29/2024 14:49	51004	NHAR_T1	1	3	2	7.5	7.5	0	0	0	0	0	0	0	0	0
6/29/2024 14:50	15204	SFAR_T2	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
6/29/2024 14:50	46203	DANV_T2	0	0	0	0	0	0	-1.65	-1.63	0	0	0	0	0	0
6/29/2024 14:50	46206	DANV_T2	1	3	2	2.1	0.7	-1.4	0	0	0	0	0	0	0	0
6/29/2024 14:51	46206	DANV_T2	1	3	2	2.1	0.7	-1.4	0	0	0	0	0	0	0	0
6/29/2024 14:51	46203	DANV_T2	0	0	0	0	0	0	-3.27	-3.23	0	0	0	0	0	0
6/29/2024 14:53	15204	SFAR_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
6/29/2024 14:54	48302	ORWI_T2	1	1	0	0.2	0.3	0.1	-0.3	-0.3	0	0	0	0	0	0
6/29/2024 14:55	56803	BENV_T1	4	5	1	1.9	3.3	1.4	0	0	0	0	0	0	0	0
6/29/2024 14:55	56801	BENV_T1	3	2	-1	0.13	0	-0.13	-0.21	-0.19	1	1	0	600	600	0
6/29/2024 14:56	56803	BENV_T1	4	5	1	1.9	3.3	1.4	0	0	0	0	0	0	0	0
6/29/2024 14:56	56801	BENV_T1	3	2	-1	0.13	0	-0.13	-0.21	-0.19	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/29/2024 14:56	59101	WALK_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
6/29/2024 14:59	52403	GRPA_T2	63	68	5	0.66	0.58	-0.08	0.01	-0.25	0	0	0	0	0	0
6/29/2024 14:59	52402	GRPA_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
6/29/2024 15:00	52403	GRPA_T2	64	99	35	0.56	0.54	-0.02	0.01	-0.25	0	0	0	0	0	0
6/29/2024 15:00	52402	GRPA_T2	2	3	1	0.35	0.45	0.1	0	0	0	0	0	0	0	0
6/29/2024 15:02	52403	GRPA_T2	64	99	35	0.56	0.54	-0.02	0	0	0	0	0	0	0	0
6/29/2024 15:02	52404	GRPA_T2	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
6/29/2024 15:02	52402	GRPA_T2	2	3	1	0.35	0.45	0.1	0	0	0	0	0	0	0	0
6/29/2024 15:03	52402	GRPA_T2	2	3	1	0.35	0.45	0.1	0	0	0	0	0	0	0	0
6/29/2024 15:03	52403	GRPA_T2	64	99	35	0.56	0.54	-0.02	0.01	-0.25	0	0	0	0	0	0
6/29/2024 15:04	12701	MACU_T1	0	6	6	0	0.1	0.1	-2.27	-2.22	3	3	0	3600	3600	0
6/29/2024 15:04	12704	MACU_T1	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
6/29/2024 15:05	12701	MACU_T1	0	6	6	0	0.1	0.1	-0.76	-0.74	1	1	0	1200	1200	0
6/29/2024 15:05	12704	MACU_T1	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
6/29/2024 15:07	66703	STRA_T1	13	16	3	0.58	0.39	-0.19	-0.18	-0.11	0	0	0	0	0	0
6/29/2024 15:07	59101	WALK_T2	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
6/29/2024 15:07	66701	STRA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 15:10	59101	WALK_T2	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
6/29/2024 15:10	66703	STRA_T1	13	16	3	0.58	0.39	-0.19	-0.18	-0.11	0	0	0	0	0	0
6/29/2024 15:10	66701	STRA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 15:11	59101	WALK_T2	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
6/29/2024 15:14	11805	FRAN_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 15:14	11802	FRAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 15:14	11804	FRAN_T1	155	190	35	0.65	0.76	0.11	1.19	0.64	0	0	0	0	0	0
6/29/2024 15:16	52403	GRPA_T2	31	141	110	0.55	0.67	0.12	-0.25	-0.27	0	0	0	0	0	0
6/29/2024 15:16	11804	FRAN_T1	182	184	2	0.77	0.66	-0.11	0	0	0	0	0	0	0	0
6/29/2024 15:16	11805	FRAN_T1	0	4	4	0	0	0	-1.99	-2.09	1	1	0	1200	1200	0
6/29/2024 15:16	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 15:16	11802	FRAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/29/2024 15:16	52402	GRPA_T2	2	5	3	0.95	0.33	-0.62	0	0	0	0	0	0	0	0
6/29/2024 15:21	67801	WLAN_T1	7	6	-1	0.34	0.15	-0.19	-1.29	-1.35	0	0	0	0	0	0
6/29/2024 15:21	67803	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 15:21	67804	WLAN_T1	10	10	0	1.24	1.28	0.04	0	0	0	0	0	0	0	0
6/29/2024 15:22	57303	MOAL_T2	1	1	0	9	9	0	0	0	0	0	0	0	0	0
6/29/2024 15:22	57304	MOAL_T2	0	5	5	0	0.1	0.1	-0.54	-0.48	0	0	0	0	0	0
6/29/2024 15:23	14404	SSLA_T1	1	1	0	1.6	2.2	0.6	0	0	0	0	0	0	0	0
6/29/2024 15:23	14403	SSLA_T1	0	0	0	0	0	0	0.7	0.59	1	1	0	600	600	0
6/29/2024 15:23	67602	WARW_T2	0	0	0	0	0	0	0.24	0.22	2	2	0	1500	1500	0
6/29/2024 15:24	67602	WARW_T2	0	0	0	0	0	0	0.24	0.22	2	2	0	1500	1500	0
6/29/2024 15:25	14404	SSLA_T1	1	1	0	1.6	2.2	0.6	0	0	0	0	0	0	0	0
6/29/2024 15:25	14403	SSLA_T1	0	0	0	0	0	0	0.7	0.59	1	1	0	600	600	0
6/29/2024 15:30	64302	LINC_T2	8	12	4	0.43	0.68	0.25	1.67	1.67	0	0	0	0	0	0
6/29/2024 15:35	56501	ROCK_T2	2	3	1	0.3	0.33	0.03	-2.29	-2.25	0	0	0	0	0	0
6/29/2024 15:35	56504	ROCK_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 15:36	64302	LINC_T2	8	12	4	0.43	0.68	0.25	1.67	1.76	0	0	0	0	0	0
6/29/2024 15:36	66504	SMAN_T2	0	0	0	0	0	0	-0.22	-0.26	0	0	0	0	0	0
6/29/2024 15:36	66505	SMAN_T2	0	9	9	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 15:38	56501	ROCK_T2	2	3	1	0.3	0.33	0.03	-2.25	-2.21	0	0	0	0	0	0
6/29/2024 15:38	56504	ROCK_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 15:39	56504	ROCK_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 15:39	66504	SMAN_T2	0	0	0	0	0	0	-0.45	-0.52	0	0	0	0	0	0
6/29/2024 15:39	56501	ROCK_T2	2	3	1	0.3	0.33	0.03	-4.5	-4.42	0	0	0	0	0	0
6/29/2024 15:39	66505	SMAN_T2	0	9	9	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 15:40	29402	BELT_T1	1	2	1	9.2	4.75	-4.45	0	0	0	0	0	0	0	0
6/29/2024 15:40	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/29/2024 15:42	51804	EBEN_T2	4	0	-4	1.75	0	-1.75	-0.66	-0.67	1	1	0	900	900	0
6/29/2024 15:42	61701	ELIZ_T1	1	1	0	1.3	1.6	0.3	1.17	1.03	0	0	0	0	0	0
6/29/2024 15:42	51802	EBEN_T2	0	15	15	0	0.1	0.1	0	0	0	0	0	0	0	0
6/29/2024 15:43	61701	ELIZ_T1	1	1	0	1.3	1.6	0.3	1.17	1.03	0	0	0	0	0	0
6/29/2024 15:44	46206	DANV_T2	1	2	1	1.4	1.4	0	0	0	0	0	0	0	0	0
6/29/2024 15:44	46204	DANV_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 15:44	46203	DANV_T2	0	0	0	0	0	0	-1.58	-1.57	0	0	0	0	0	0
6/29/2024 15:44	61701	ELIZ_T1	1	1	0	1.3	1.6	0.3	1.17	1.03	0	0	0	0	0	0
6/29/2024 15:44	11904	ETEX_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
6/29/2024 15:45	40902	JESH_T1	0	1	1	0	0	0	-1.29	-1.29	1	1	0	600	600	0
6/29/2024 15:45	40901	JESH_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
6/29/2024 15:46	46206	DANV_T2	1	2	1	1.6	0.9	-0.7	0	0	0	0	0	0	0	0
6/29/2024 15:46	46203	DANV_T2	0	0	0	0	0	0	-1.58	-1.57	0	0	0	0	0	0
6/29/2024 15:48	40902	JESH_T1	0	1	1	0	0	0	-1.29	-1.29	1	1	0	600	600	0
6/29/2024 15:48	40901	JESH_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
6/29/2024 15:54	61102	BERK_T5	0	0	0	0	0	0	0.36	0.5	1	1	0	300	300	0
6/29/2024 15:57	60801	BUCK_T1	0	0	0	0	0	0	-1.33	-1.12	1	1	0	600	600	0
6/29/2024 15:57	61102	BERK_T5	0	0	0	0	0	0	0.36	0.5	1	1	0	300	300	0
6/29/2024 15:58	10701	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 15:58	10705	CATA_T2	0	0	0	0	0	0	-1.48	-1.47	1	1	0	900	900	0
6/29/2024 15:59	60801	BUCK_T1	0	0	0	0	0	0	-1.33	-1.12	1	1	0	600	600	0
6/29/2024 16:00	10705	CATA_T2	0	0	0	0	0	0	-1.48	-1.47	1	1	0	900	900	0
6/29/2024 16:00	10701	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 16:06	44202	POIN_T2	0	0	0	0	0	0	-0.73	-0.73	1	1	0	1200	1200	0
6/29/2024 16:09	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 16:09	43402	BENT_T1	0	0	0	0	0	0	-0.83	-0.83	1	1	0	900	900	0
6/29/2024 16:11	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 16:11	43402	BENT_T1	0	0	0	0	0	0	-0.83	-0.83	1	1	0	900	900	0
6/29/2024 16:12	43402	BENT_T1	0	0	0	0	0	0	-0.83	-0.83	1	1	0	900	900	0
6/29/2024 16:12	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 16:19	13501	MCMI_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
6/29/2024 16:23	46302	ROHR_T1	4	9	5	0.38	0.13	-0.25	0.28	-0.31	0	0	0	0	0	0
6/29/2024 16:28	46302	ROHR_T1	4	9	5	0.38	0.13	-0.25	0.28	-0.31	0	0	0	0	0	0
6/29/2024 16:33	42903	MIDD_T2	2	2	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
6/29/2024 16:33	42902	MIDD_T2	41	53	12	0.97	1.36	0.39	-0.53	-0.56	0	0	0	0	0	0
6/29/2024 16:34	42902	MIDD_T2	41	53	12	0.97	1.36	0.39	-0.27	-0.28	0	0	0	0	0	0
6/29/2024 16:34	42903	MIDD_T2	2	2	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
6/29/2024 16:37	64101	REFR_T1	4	10	6	1.03	1.35	0.32	0.07	0.08	0	0	0	0	0	0
6/29/2024 16:38	57104	SPHI_T2	1	1	0	3.1	2.8	-0.3	-1.02	-0.97	1	1	0	900	900	0
6/29/2024 16:38	42902	MIDD_T2	41	53	12	0.97	1.36	0.39	-0.28	-0.29	0	0	0	0	0	0
6/29/2024 16:38	42903	MIDD_T2	2	2	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
6/29/2024 16:38	57106	SPHI_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
6/29/2024 16:41	59101	WALK_T2	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
6/29/2024 16:43	62102	ELAN_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
6/29/2024 16:53	64101	REFR_T1	10	10	0	1.35	1.12	-0.23	0.08	0.1	0	0	0	0	0	0
6/29/2024 16:56	67605	WARW_T1	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
6/29/2024 17:01	63401	HONY_T1	0	0	0	0	0	0	0.5	0.42	0	0	0	0	0	0
6/29/2024 17:03	64101	REFR_T1	10	10	0	1.64	1.12	-0.52	0.08	0.1	0	0	0	0	0	0
6/29/2024 17:04	64101	REFR_T1	10	10	0	1.64	1.12	-0.52	0.08	0.1	0	0	0	0	0	0
6/29/2024 17:04	14204	EALL_T2	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
6/29/2024 17:10	46001	BERW_T1	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
6/29/2024 17:12	46001	BERW_T1	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
6/29/2024 17:17	61703	ELIZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/29/2024 17:17	61701	ELIZ_T1	1	1	0	1.5	1.6	0.1	0.71	0.74	0	0	0	0	0	0
6/29/2024 17:20	54001	SDLE_T1	4	2	-2	0.53	0.6	0.07	0	0	1	1	0	600	600	0
6/29/2024 17:23	54001	SDLE_T1	4	2	-2	0.53	0.6	0.07	0	0	1	1	0	600	600	0
6/29/2024 17:26	57702	PAXT_T1	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
6/29/2024 17:34	13503	MCMI_T2	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
6/29/2024 17:49	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 17:49	40502	CRES_T2	1	1	0	0.1	0.2	0.1	-0.26	-0.24	0	0	0	0	0	0
6/29/2024 17:50	40502	CRES_T2	1	1	0	0.1	0.2	0.1	-0.52	-0.48	0	0	0	0	0	0
6/29/2024 17:50	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 17:51	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 17:51	40502	CRES_T2	1	1	0	0.1	0.2	0.1	-0.52	-0.48	0	0	0	0	0	0
6/29/2024 17:52	66504	SMAN_T2	3	2	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/29/2024 17:52	66503	SMAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 17:52	66703	STRA_T1	3	2	-1	0.87	0	-0.87	0	0	0	0	0	0	0	0
6/29/2024 17:52	66701	STRA_T1	6	7	1	1.25	1	-0.25	0.65	0.65	1	1	0	600	600	0
6/29/2024 17:52	66505	SMAN_T2	1	5	4	0.2	0.3	0.1	0.02	0.02	4	4	0	2300	2300	0
6/29/2024 17:52	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 17:52	40502	CRES_T2	1	1	0	0.1	0.2	0.1	-0.24	-0.22	0	0	0	0	0	0
6/29/2024 17:53	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 17:53	40502	CRES_T2	1	1	0	0.1	0.2	0.1	-1.21	-1.11	0	0	0	0	0	0
6/29/2024 17:54	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 17:54	66503	SMAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 17:54	66504	SMAN_T2	3	2	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/29/2024 17:54	66505	SMAN_T2	1	5	4	0.2	0.3	0.1	0.02	0.02	4	4	0	2300	2300	0
6/29/2024 17:54	40502	CRES_T2	1	1	0	0.1	0.2	0.1	-0.24	-0.22	0	0	0	0	0	0
6/29/2024 17:56	62102	ELAN_T1	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
6/29/2024 17:58	63401	HONY_T1	0	0	0	0	0	0	0.37	0.42	0	0	0	0	0	0
6/29/2024 18:11	51804	EBEN_T2	0	0	0	0	0	0	-0.66	-0.66	1	1	0	900	900	0
6/29/2024 18:14	51804	EBEN_T2	0	0	0	0	0	0	-0.66	-0.66	1	1	0	900	900	0
6/29/2024 18:15	51804	EBEN_T2	0	0	0	0	0	0	-0.66	-0.66	1	1	0	900	900	0
6/29/2024 18:15	61701	ELIZ_T1	1	1	0	1.1	1.7	0.6	0.83	0.78	0	0	0	0	0	0
6/29/2024 18:19	52403	GRPA_T2	66	33	-33	1.4	0.7	-0.7	-0.36	-0.4	0	0	0	0	0	0
6/29/2024 18:19	52402	GRPA_T2	2	1	-1	1.05	1.1	0.05	0	0	0	0	0	0	0	0
6/29/2024 18:21	65901	SAKR_T2	1	1	0	6.3	6.6	0.3	-0.69	-0.66	2	2	0	1500	1500	0
6/29/2024 18:21	65902	SAKR_T2	1	3	2	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/29/2024 18:21	65903	SAKR_T2	1	1	0	1.7	0	-1.7	0	0	0	0	0	0	0	0
6/29/2024 18:23	57403	SPAN_T1	3	2	-1	0.67	0	-0.67	0	0	0	0	0	0	0	0
6/29/2024 18:23	57401	SPAN_T1	30	17	-13	0.29	0.33	0.04	-0.83	-0.88	1	1	0	600	600	0
6/29/2024 18:24	57403	SPAN_T1	3	2	-1	0.67	0	-0.67	0	0	0	0	0	0	0	0
6/29/2024 18:24	57401	SPAN_T1	30	17	-13	0.29	0.33	0.04	-0.83	-0.88	1	1	0	600	600	0
6/29/2024 18:31	61701	ELIZ_T1	1	1	0	1.5	1.9	0.4	0.78	0.75	0	0	0	0	0	0
6/29/2024 18:32	41301	FISH_T1	1	1	0	1.3	1.6	0.3	-0.09	-0.09	0	0	0	0	0	0
6/29/2024 18:32	41303	FISH_T1	2	2	0	2.55	2.2	-0.35	0	0	0	0	0	0	0	0
6/29/2024 18:33	64201	KINZ_T1	0	0	0	0	0	0	-0.57	-0.64	4	4	0	2100	2100	0
6/29/2024 18:33	41303	FISH_T1	2	2	0	2.55	2.2	-0.35	0	0	0	0	0	0	0	0
6/29/2024 18:33	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 18:33	64204	KINZ_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
6/29/2024 18:33	41301	FISH_T1	1	1	0	1.3	1.6	0.3	-0.09	-0.09	0	0	0	0	0	0
6/29/2024 18:44	12006	HATF_T1	0	1	1	0	0	0	1.22	1.24	0	0	0	0	0	0
6/29/2024 18:46	12606	MACA_T1	17	26	9	1.7	0.63	-1.07	0	0	0	0	0	0	0	0
6/29/2024 18:46	12601	MACA_T1	0	0	0	0	0	0	1.38	1.37	0	0	0	0	0	0
6/29/2024 18:50	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/29/2024 19:15	62102	ELAN_T1	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
6/29/2024 19:40	55102	WERT_T2	0	0	0	0	0	0	-2.26	-2.29	2	2	0	1200	1200	0
6/29/2024 20:02	54503	ENOL_T2	0	0	0	0	0	0	-1.79	-1.8	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/29/2024 20:09	13302	ORVI_T2	0	0	0	0	0	0	1.82	1.83	0	0	0	0	0	0
6/29/2024 20:15	41602	CLEV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/29/2024 20:15	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/29/2024 20:19	50103	HARR_T3	1	0	-1	0.1	0	-0.1	-1.25	-1.28	1	1	0	1200	1200	0
6/29/2024 20:19	50105	HARR_T3	6	6	0	6.38	6.25	-0.13	0	0	0	0	0	0	0	0
6/29/2024 20:19	50107	HARR_T3	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
6/29/2024 20:19	50201	HARR_T3	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
6/29/2024 20:25	64203	KINZ_T1	0	0	0	0	0	0	-0.03	-0.04	1	1	0	600	600	0
6/29/2024 20:25	64202	KINZ_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
6/29/2024 20:25	64204	KINZ_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
6/29/2024 20:27	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 20:27	43402	BENT_T1	0	0	0	0	0	0	-0.85	-0.85	1	1	0	900	900	0
6/29/2024 20:28	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 20:28	43402	BENT_T1	0	0	0	0	0	0	-0.85	-0.85	1	1	0	900	900	0
6/29/2024 20:30	42201	SHEN_T2	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
6/29/2024 20:31	42201	SHEN_T2	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
6/29/2024 20:35	42204	SHEN_T2	0	0	0	0	0	0	-0.8	-0.8	1	1	0	1200	1200	0
6/29/2024 20:55	45802	HEGI_T2	513	523	10	1.51	1.3	-0.21	0.07	0.12	0	0	0	0	0	0
6/29/2024 20:56	45802	HEGI_T2	513	523	10	1.51	1.3	-0.21	0.07	0.12	0	0	0	0	0	0
6/29/2024 21:00	13501	MCMI_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
6/29/2024 21:05	23202	HIRU_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
6/29/2024 21:06	13503	MCMI_T2	0	0	0	0	0	0	-0.79	-0.79	0	0	0	0	0	0
6/29/2024 21:10	29402	BELT_T1	1	1	0	9.1	9.3	0.2	0	0	0	0	0	0	0	0
6/29/2024 21:10	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
6/29/2024 21:11	29402	BELT_T1	1	1	0	9.1	9.3	0.2	0	0	0	0	0	0	0	0
6/29/2024 21:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/29/2024 21:15	29402	BELT_T1	1	1	0	9.3	9.1	-0.2	0	0	0	0	0	0	0	0
6/29/2024 21:16	16302	ALPA_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
6/29/2024 21:18	29402	BELT_T1	1	1	0	9.3	9.1	-0.2	0	0	0	0	0	0	0	0
6/29/2024 21:18	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/29/2024 21:21	12801	MICK_T1	0	0	0	0	0	0	-0.82	-0.84	1	1	0	600	600	0
6/29/2024 21:25	10705	CATA_T2	0	0	0	0	0	0	-1.67	-1.7	1	1	0	900	900	0
6/29/2024 21:28	14204	EALL_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
6/29/2024 21:29	66903	SHIL_T2	15	0	-15	0.16	0	-0.16	0	0	0	0	0	0	0	0
6/29/2024 21:29	66902	SHIL_T2	60	41	-19	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
6/29/2024 21:29	66901	SHIL_T2	64	49	-15	0.24	0.14	-0.1	0.28	0.27	0	0	0	0	0	0
6/29/2024 21:30	11904	ETEX_T2	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
6/29/2024 21:32	12606	MACA_T1	17	11	-6	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/29/2024 21:32	12601	MACA_T1	0	0	0	0	0	0	1.19	1.18	0	0	0	0	0	0
6/29/2024 21:33	12701	MACU_T1	0	0	0	0	0	0	-2.59	-2.64	3	3	0	3600	3600	0
6/29/2024 21:36	12701	MACU_T1	0	0	0	0	0	0	-0.88	-0.89	1	1	0	1200	1200	0
6/29/2024 21:36	11904	ETEX_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
6/29/2024 21:37	15204	SFAR_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/29/2024 21:38	16302	ALPA_T2	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
6/29/2024 21:39	15204	SFAR_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
6/29/2024 21:43	16302	ALPA_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
6/29/2024 21:49	67203	TEHI_T1	0	0	0	0	0	0	1.29	1.27	0	0	0	0	0	0
6/29/2024 21:52	45702	LIND_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
6/29/2024 21:52	66701	STRA_T1	0	0	0	0	0	0	0.31	0.32	1	1	0	600	600	0
6/29/2024 21:52	66703	STRA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/29/2024 21:56	60101	COCA_T1	0	0	0	0	0	0	0.84	0.7	0	0	0	0	0	0
6/29/2024 21:59	22602	KIMB_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
6/29/2024 21:59	67203	TEHI_T1	0	0	0	0	0	0	1.27	1.26	0	0	0	0	0	0
6/29/2024 21:59	48302	ORWI_T2	2	2	0	1.1	1.2	0.1	-0.46	-0.47	0	0	0	0	0	0
6/29/2024 22:00	63401	HONY_T1	0	0	0	0	0	0	0.37	0.28	0	0	0	0	0	0
6/29/2024 22:02	16302	ALPA_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
6/29/2024 22:04	64204	KINZ_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
6/29/2024 22:04	64201	KINZ_T1	0	1	1	0	0.3	0.3	-0.35	-0.37	3	3	0	1500	1500	0
6/29/2024 22:04	64202	KINZ_T1	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
6/29/2024 22:05	41902	REED_T1	0	0	0	0	0	0	0.23	0.15	1	1	0	900	900	0
6/29/2024 22:05	41901	REED_T1	7	5	-2	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
6/29/2024 22:07	41902	REED_T1	0	0	0	0	0	0	0.15	0.25	1	1	0	900	900	0
6/29/2024 22:07	41901	REED_T1	7	5	-2	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
6/29/2024 22:07	63401	HONY_T1	0	0	0	0	0	0	0.28	0.31	0	0	0	0	0	0
6/29/2024 22:09	60201	ATGL_T2	0	0	0	0	0	0	-0.51	-0.59	1	1	0	300	300	0
6/29/2024 22:10	66703	STRA_T1	0	4	4	0	0.13	0.13	-0.83	-0.88	0	0	0	0	0	0
6/29/2024 22:10	60801	BUCK_T1	0	0	0	0	0	0	-1.14	-1.16	2	2	0	1200	1200	0
6/29/2024 22:10	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/29/2024 22:10	63401	HONY_T1	0	0	0	0	0	0	0.56	0.61	0	0	0	0	0	0
6/29/2024 22:11	66703	STRA_T1	0	4	4	0	0.13	0.13	-0.83	-0.88	0	0	0	0	0	0
6/29/2024 22:11	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
6/29/2024 22:13	10602	BLGI_T2	1	1	0	8.7	8.8	0.1	0.55	0.52	0	0	0	0	0	0
6/29/2024 22:14	66703	STRA_T1	0	4	4	0	0.13	0.13	-0.83	-0.88	0	0	0	0	0	0
6/29/2024 22:14	63401	HONY_T1	0	0	0	0	0	0	0.28	0.31	0	0	0	0	0	0
6/29/2024 22:14	11804	FRAN_T1	4	1	-3	0.33	0.2	-0.13	0.93	0.89	0	0	0	0	0	0
6/29/2024 22:15	13303	ORVI_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
6/29/2024 22:17	65604	QVIL_T2	0	0	0	0	0	0	0.76	0.75	0	0	0	0	0	0
6/29/2024 22:17	60801	BUCK_T1	0	0	0	0	0	0	-0.57	-0.58	1	1	0	600	600	0
6/29/2024 22:17	60803	BUCK_T1	1	5	4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
6/29/2024 22:17	66703	STRA_T1	1	4	3	0.1	0.13	0.03	-0.83	-0.88	0	0	0	0	0	0
6/29/2024 22:18	66703	STRA_T1	1	4	3	0.1	0.13	0.03	-0.83	-0.88	0	0	0	0	0	0
6/29/2024 22:20	12002	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/29/2024 22:20	12005	HATF_T1	3	3	0	0.33	0.37	0.04	0	0	0	0	0	0	0	0
6/29/2024 22:20	12006	HATF_T1	0	0	0	0	0	0	0.91	0.85	0	0	0	0	0	0
6/29/2024 22:24	65205	PRIN_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
6/29/2024 22:24	40101	HUNT_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
6/29/2024 22:24	58006	WCAR_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
6/29/2024 22:26	40502	CRES_T2	6	16	10	0.18	0.29	0.11	-0.67	-0.7	0	0	0	0	0	0
6/29/2024 22:26	28704	HAML_T2	1	1	0	0.1	0.1	0	0.03	0.03	0	0	0	0	0	0
6/29/2024 22:26	65604	QVIL_T2	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
6/29/2024 22:26	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/29/2024 22:28	13503	MCMI_T2	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
6/29/2024 22:28	40502	CRES_T2	6	16	10	0.18	0.29	0.11	-0.67	-0.7	0	0	0	0	0	0
6/29/2024 22:28	55102	WERT_T2	0	0	0	0	0	0	-1.31	-1.36	2	2	0	1200	1200	0
6/29/2024 22:28	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/29/2024 22:29	40502	CRES_T2	6	16	10	0.18	0.29	0.11	-0.67	-0.7	0	0	0	0	0	0
6/29/2024 22:29	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/29/2024 22:30	55101	WERT_T1	0	0	0	0	0	0	-3.8	-3.84	6	6	0	4800	4800	0
6/29/2024 22:30	66703	STRA_T1	4	3	-1	0.13	0.2	0.07	-0.88	-0.94	0	0	0	0	0	0
6/29/2024 22:31	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/29/2024 22:31	55101	WERT_T1	0	0	0	0	0	0	-1.9	-1.92	3	3	0	2400	2400	0
6/29/2024 22:31	58003	WCAR_T1	1	1	0	1.5	1.4	-0.1	0.19	0.18	1	1	0	600	600	0
6/29/2024 22:31	40502	CRES_T2	13	15	2	0.28	0.27	-0.01	-0.67	-0.7	0	0	0	0	0	0
6/29/2024 22:31	58001	WCAR_T1	4	4	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
6/29/2024 22:31	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/29/2024 22:32	43402	BENT_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	900	900	0
6/29/2024 22:32	56503	ROCK_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/29/2024 22:32	56501	ROCK_T2	416	13	-403	0.52	0.17	-0.35	-2.61	-1.36	0	0	0	0	0	0
6/29/2024 22:32	55101	WERT_T1	0	0	0	0	0	0	-1.9	-1.92	3	3	0	2400	2400	0
6/29/2024 22:33	56503	ROCK_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/29/2024 22:33	55101	WERT_T1	0	0	0	0	0	0	-1.9	-1.92	3	3	0	2400	2400	0
6/29/2024 22:33	56501	ROCK_T2	416	13	-403	0.52	0.17	-0.35	-5.23	-2.72	0	0	0	0	0	0
6/29/2024 22:34	52403	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/29/2024 22:34	52401	GRPA_T2	0	1	1	0	0.3	0.3	-0.42	-0.42	0	0	0	0	0	0
6/29/2024 22:34	64101	REFR_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
6/29/2024 22:34	43402	BENT_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	900	900	0
6/29/2024 22:34	54503	ENOL_T2	0	0	0	0	0	0	-0.95	-0.96	1	1	0	600	600	0
6/29/2024 22:34	47802	MOCA_T2	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
6/29/2024 22:35	56501	ROCK_T2	416	13	-403	0.52	0.17	-0.35	-5.23	-2.72	0	0	0	0	0	0
6/29/2024 22:35	42902	MIDD_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
6/29/2024 22:35	46101	MACI_T2	0	0	0	0	0	0	-0.48	-0.52	1	1	0	1200	1200	0
6/29/2024 22:35	56503	ROCK_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/29/2024 22:35	58001	WCAR_T1	4	4	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
6/29/2024 22:35	58003	WCAR_T1	1	1	0	1.5	1.4	-0.1	0.19	0.18	1	1	0	600	600	0
6/29/2024 22:35	52401	GRPA_T2	0	1	1	0	0.3	0.3	-0.42	-0.42	0	0	0	0	0	0
6/29/2024 22:35	52403	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/29/2024 22:36	43402	BENT_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	900	900	0
6/29/2024 22:36	56503	ROCK_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/29/2024 22:36	64101	REFR_T1	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
6/29/2024 22:36	57104	SPHI_T2	2	1	-1	2.45	3.9	1.45	-1.44	-1.47	1	1	0	900	900	0
6/29/2024 22:36	55101	WERT_T1	0	0	0	0	0	0	-1.9	-1.92	3	3	0	2400	2400	0
6/29/2024 22:36	57106	SPHI_T2	3	3	0	1.27	0.97	-0.3	0	0	0	0	0	0	0	0
6/29/2024 22:36	61701	ELIZ_T1	1	1	0	4.5	4.1	-0.4	0.43	0.39	0	0	0	0	0	0
6/29/2024 22:36	56501	ROCK_T2	416	13	-403	0.52	0.17	-0.35	-2.61	-1.36	0	0	0	0	0	0
6/29/2024 22:36	59101	WALK_T2	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
6/29/2024 22:37	56801	BENV_T1	9	8	-1	0.99	1.25	0.26	-1.01	-1.03	2	2	0	1200	1200	0
6/29/2024 22:37	51804	EBEN_T2	1	0	-1	0.1	0	-0.1	-1.01	-1.03	1	1	0	900	900	0
6/29/2024 22:37	44301	BEAV_T2	0	0	0	0	0	0	-0.81	-0.82	1	1	0	600	600	0
6/29/2024 22:37	59101	WALK_T2	0	0	0	0	0	0	-0.57	-0.62	0	0	0	0	0	0
6/29/2024 22:37	46203	DANV_T2	0	0	0	0	0	0	-1.79	-1.8	0	0	0	0	0	0
6/29/2024 22:38	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/29/2024 22:38	54001	SDLE_T1	1	1	0	0.6	1	0.4	0	0	1	1	0	600	600	0
6/29/2024 22:38	46203	DANV_T2	0	0	0	0	0	0	-3.58	-3.61	0	0	0	0	0	0
6/29/2024 22:39	51004	NHAR_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
6/29/2024 22:39	51003	NHAR_T1	0	1	1	0	0.1	0.1	-1.75	-1.76	1	1	0	1200	1200	0
6/29/2024 22:39	59003	MIFF_T1	1	1	0	0.8	1	0.2	-0.43	-0.43	0	0	0	0	0	0
6/29/2024 22:39	63601	LETO_T1	0	0	0	0	0	0	0.32	0.21	3	3	0	2700	2700	0
6/29/2024 22:39	40502	CRES_T2	13	15	2	0.28	0.27	-0.01	-1.4	-0.32	0	0	0	0	0	0
6/29/2024 22:39	51804	EBEN_T2	1	0	-1	0.1	0	-0.1	-1.01	-1.03	1	1	0	900	900	0
6/29/2024 22:39	61102	BERK_T5	0	0	0	0	0	0	0.68	0.7	1	1	0	300	300	0
6/29/2024 22:39	40901	JESH_T1	1	1	0	2	1.5	-0.5	0	0	0	0	0	0	0	0
6/29/2024 22:39	59001	MIFF_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/29/2024 22:39	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/29/2024 22:39	52403	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/29/2024 22:39	67603	WARW_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
6/29/2024 22:39	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/29/2024 22:39	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 22:39	66703	STRA_T1	4	3	-1	0.13	0.2	0.07	0	0	0	0	0	0	0	0
6/29/2024 22:39	64101	REFR_T1	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
6/29/2024 22:39	63304	GREE_T1	0	0	0	0	0	0	-2.54	-2.58	0	0	0	0	0	0
6/29/2024 22:39	65003	NEFF_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
6/29/2024 22:39	52404	GRPA_T2	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
6/29/2024 22:39	66701	STRA_T1	0	0	0	0	0	0	0.29	0.26	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/29/2024 22:39	46302	ROHR_T1	4	4	0	0.4	0.8	0.4	0.24	0.24	0	0	0	0	0	0
6/29/2024 22:39	44302	BEAV_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
6/29/2024 22:39	40902	JESH_T1	0	0	0	0	0	0	-1.21	-1.22	1	1	0	600	600	0
6/29/2024 22:39	59101	WALK_T2	0	0	0	0	0	0	-0.57	-0.62	0	0	0	0	0	0
6/29/2024 22:39	51002	NHAR_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
6/29/2024 22:39	65001	NEFF_T2	0	0	0	0	0	0	-0.8	-0.77	1	1	0	1200	1200	0
6/29/2024 22:39	59002	MIFF_T1	5	6	1	0.2	0.73	0.53	0	0	0	0	0	0	0	0
6/29/2024 22:40	42902	MIDD_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
6/29/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
6/29/2024 22:40	52403	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/29/2024 22:40	52404	GRPA_T2	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
6/29/2024 22:40	66504	SMAN_T2	0	1	1	0	0	0	0.25	0.22	0	0	0	0	0	0
6/29/2024 22:40	62102	ELAN_T1	0	0	0	0	0	0	1.46	1.41	0	0	0	0	0	0
6/29/2024 22:40	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/29/2024 22:41	57702	PAXT_T1	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
6/29/2024 22:41	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/29/2024 22:41	56501	ROCK_T2	416	13	-403	0.52	0.17	-0.35	-1.36	-1.39	0	0	0	0	0	0
6/29/2024 22:41	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/29/2024 22:41	66505	SMAN_T2	0	0	0	0	0	0	-0.07	-0.18	3	3	0	2100	2100	0
6/29/2024 22:41	60502	NMAN_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
6/29/2024 22:41	52403	GRPA_T2	1	0	-1	0.6	0	-0.6	-0.55	-0.56	0	0	0	0	0	0
6/29/2024 22:41	46001	BERW_T1	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
6/29/2024 22:41	54701	NEBL_T1	1	1	0	1.2	1.5	0.3	0	0	1	1	0	600	600	0
6/29/2024 22:41	46203	DANV_T2	0	0	0	0	0	0	-3.58	-3.61	0	0	0	0	0	0
6/29/2024 22:41	67605	WARW_T1	0	0	0	0	0	0	-2.11	-2.14	0	0	0	0	0	0
6/29/2024 22:41	66502	SMAN_T2	0	0	0	0	0	0	-1.02	-1	1	1	0	900	900	0
6/29/2024 22:41	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 22:41	64101	REFR_T1	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
6/29/2024 22:41	46302	ROHR_T1	4	4	0	0.4	0.8	0.4	0.24	0.24	0	0	0	0	0	0
6/29/2024 22:41	66703	STRA_T1	4	3	-1	0.13	0.2	0.07	0	0	0	0	0	0	0	0
6/29/2024 22:41	64302	LINC_T2	0	0	0	0	0	0	1.31	1.29	0	0	0	0	0	0
6/29/2024 22:41	56503	ROCK_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/29/2024 22:41	42902	MIDD_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
6/29/2024 22:41	61102	BERK_T5	0	0	0	0	0	0	0.68	0.7	1	1	0	300	300	0
6/29/2024 22:41	66701	STRA_T1	0	0	0	0	0	0	0.29	0.26	1	1	0	600	600	0
6/29/2024 22:41	67901	WNHO_T2	62	54	-8	0.3	0.32	0.02	-0.26	-0.33	0	0	0	0	0	0
6/29/2024 22:41	67602	WARW_T2	0	0	0	0	0	0	0.01	0.06	1	1	0	1200	1200	0
6/29/2024 22:41	59101	WALK_T2	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
6/29/2024 22:41	60501	NMAN_T2	3	3	0	5.37	4.63	-0.74	0	0	0	0	0	0	0	0
6/29/2024 22:41	40502	CRES_T2	13	15	2	0.28	0.27	-0.01	-0.7	-0.16	0	0	0	0	0	0
6/29/2024 22:42	46203	DANV_T2	0	0	0	0	0	0	-1.79	-1.8	0	0	0	0	0	0
6/29/2024 22:42	67804	WLAN_T1	8	4	-4	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
6/29/2024 22:42	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/29/2024 22:42	52404	GRPA_T2	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
6/29/2024 22:42	52403	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/29/2024 22:42	43304	WATS_T2	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
6/29/2024 22:42	60501	NMAN_T2	3	3	0	5.37	4.63	-0.74	0	0	0	0	0	0	0	0
6/29/2024 22:42	64101	REFR_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
6/29/2024 22:42	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 22:42	40502	CRES_T2	13	15	2	0.28	0.27	-0.01	-1.4	-0.32	0	0	0	0	0	0
6/29/2024 22:42	21206	ECAR_T2	1	1	0	8.2	8.4	0.2	0.19	0.19	0	0	0	0	0	0
6/29/2024 22:42	43301	WATS_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/29/2024 22:42	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/29/2024 22:42	60502	NMAN_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
6/29/2024 22:42	67801	WLAN_T1	0	2	2	0	0	0	-1.29	-0.09	0	0	0	0	0	0
6/29/2024 22:42	46001	BERW_T1	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
6/29/2024 22:43	46102	MACI_T1	0	0	0	0	0	0	1.05	1.05	0	0	0	0	0	0
6/29/2024 22:43	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/29/2024 22:43	40502	CRES_T2	13	15	2	0.28	0.27	-0.01	-1.4	-0.32	0	0	0	0	0	0
6/29/2024 22:43	67605	WARW_T1	0	0	0	0	0	0	-1.05	-1.07	0	0	0	0	0	0
6/29/2024 22:43	64101	REFR_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
6/29/2024 22:43	46203	DANV_T2	0	0	0	0	0	0	-1.79	-1.8	0	0	0	0	0	0
6/29/2024 22:43	57303	MOAL_T2	1	1	0	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
6/29/2024 22:43	59101	WALK_T2	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
6/29/2024 22:43	66505	SMAN_T2	0	0	0	0	0	0	-0.07	-0.18	3	3	0	2100	2100	0
6/29/2024 22:43	57304	MOAL_T2	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
6/29/2024 22:43	60102	COCA_T1	0	0	0	0	0	0	-0.35	0.26	2	2	0	1200	1200	0
6/29/2024 22:43	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 22:43	67602	WARW_T2	0	0	0	0	0	0	0.01	0.06	1	1	0	1200	1200	0
6/29/2024 22:44	54001	SDLE_T1	1	1	0	0.6	1	0.4	0	0	1	1	0	600	600	0
6/29/2024 22:44	52002	LING_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
6/29/2024 22:44	67605	WARW_T1	0	0	0	0	0	0	-2.11	-2.14	0	0	0	0	0	0
6/29/2024 22:44	65803	RTWN_T2	25	3	-22	0.38	0.1	-0.28	0	0	0	0	0	0	0	0
6/29/2024 22:44	66703	STRA_T1	4	3	-1	0.13	0.2	0.07	0	0	0	0	0	0	0	0
6/29/2024 22:44	42902	MIDD_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
6/29/2024 22:44	65802	RTWN_T2	0	0	0	0	0	0	0.43	0.34	0	0	0	0	0	0
6/29/2024 22:44	64101	REFR_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
6/29/2024 22:44	66504	SMAN_T2	0	1	1	0	0	0	0.5	0.44	0	0	0	0	0	0
6/29/2024 22:44	67901	WNHO_T2	62	54	-8	0.3	0.32	0.02	-0.26	-0.33	0	0	0	0	0	0
6/29/2024 22:44	20403	ASHF_T2	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
6/29/2024 22:44	66701	STRA_T1	0	0	0	0	0	0	0.29	0.26	1	1	0	600	600	0
6/29/2024 22:44	63304	GREE_T1	0	0	0	0	0	0	-2.54	-2.58	0	0	0	0	0	0
6/29/2024 22:44	67602	WARW_T2	0	0	0	0	0	0	0.01	0.11	2	2	0	2400	2400	0
6/29/2024 22:45	25503	MADI_T1	48	24	-24	0.19	0.16	-0.03	-0.81	-0.82	0	0	0	0	0	0
6/29/2024 22:45	40902	JESH_T1	0	0	0	0	0	0	-1.21	-1.22	1	1	0	600	600	0
6/29/2024 22:45	20601	GRWO_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
6/29/2024 22:45	20603	GRWO_T2	43	59	16	0.23	0.22	-0.01	-0.51	-0.51	1	1	0	900	900	0
6/29/2024 22:45	52402	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/29/2024 22:45	67602	WARW_T2	0	0	0	0	0	0	0.01	0.06	1	1	0	1200	1200	0
6/29/2024 22:45	40901	JESH_T1	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
6/29/2024 22:45	52401	GRPA_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/29/2024 22:45	52403	GRPA_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
6/29/2024 22:46	20403	ASHF_T2	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
6/29/2024 22:46	14403	SSLA_T1	1	0	-1	0.2	0	-0.2	0.24	0.21	1	1	0	600	600	0
6/29/2024 22:46	14401	SSLA_T1	4	0	-4	0.85	0	-0.85	0	0	0	0	0	0	0	0
6/29/2024 22:46	14402	SSLA_T1	45	0	-45	0.83	0	-0.83	0	0	0	0	0	0	0	0
6/29/2024 22:46	67602	WARW_T2	0	0	0	0	0	0	0.01	0.06	1	1	0	1200	1200	0
6/29/2024 22:46	14404	SSLA_T1	2	1	-1	5.85	4	-1.85	0	0	0	0	0	0	0	0
6/29/2024 22:47	20603	GRWO_T2	43	59	16	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
6/29/2024 22:47	52402	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
6/29/2024 22:47	40502	CRES_T2	15	5	-10	0.27	0.2	-0.07	-0.7	-0.16	0	0	0	0	0	0
6/29/2024 22:47	52401	GRPA_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
6/29/2024 22:47	20601	GRWO_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
6/29/2024 22:47	20403	ASHF_T2	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
6/29/2024 22:47	52403	GRPA_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
6/29/2024 22:47	40501	CRES_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/29/2024 22:48	57403	SPAN_T1	0	16	16	0	0.29	0.29	0	0	0	0	0	0	0	0
6/29/2024 22:48	14401	SSLA_T1	4	0	-4	0.85	0	-0.85	0	0	0	0	0	0	0	0
6/29/2024 22:48	61701	ELIZ_T1	1	1	0	4.1	4	-0.1	0.43	0.39	0	0	0	0	0	0
6/29/2024 22:48	57401	SPAN_T1	0	0	0	0	0	0	-0.52	-0.67	1	1	0	600	600	0
6/29/2024 22:48	14402	SSLA_T1	45	0	-45	0.83	0	-0.83	0	0	0	0	0	0	0	0
6/29/2024 22:48	14404	SSLA_T1	2	1	-1	5.85	4	-1.85	0	0	0	0	0	0	0	0
6/29/2024 22:48	14403	SSLA_T1	1	0	-1	0.2	0	-0.2	0.24	0.21	1	1	0	600	600	0
6/29/2024 22:51	44302	BEAV_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
6/29/2024 22:53	22002	BOHE_T1	0	0	0	0	0	0	0.48	0.4	0	0	0	0	0	0
6/29/2024 22:53	22003	BOHE_T1	2	103	101	0.4	0.16	-0.24	0	0	0	0	0	0	0	0
6/29/2024 22:53	44301	BEAV_T2	0	0	0	0	0	0	-0.82	-0.84	1	1	0	600	600	0
6/29/2024 22:54	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 22:54	43402	BENT_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	900	900	0
6/29/2024 22:55	22003	BOHE_T1	2	103	101	0.4	0.16	-0.24	0	0	0	0	0	0	0	0
6/29/2024 22:55	43402	BENT_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	900	900	0
6/29/2024 22:55	22001	BOHE_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
6/29/2024 22:55	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/29/2024 22:59	21203	ECAR_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
6/29/2024 23:13	50107	HARR_T3	1	1	0	7.3	6.6	-0.7	0	0	0	0	0	0	0	0
6/29/2024 23:13	50103	HARR_T3	0	1	1	0	0.1	0.1	-1.46	-1.49	1	1	0	1200	1200	0
6/29/2024 23:13	50105	HARR_T3	6	6	0	6.45	6.22	-0.23	0	0	0	0	0	0	0	0
6/29/2024 23:13	50201	HARR_T3	1	2	1	9.8	9.7	-0.1	0	0	0	0	0	0	0	0
6/29/2024 23:15	43401	BENT_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/29/2024 23:15	43402	BENT_T1	0	0	0	0	0	0	-0.86	-0.87	1	1	0	900	900	0
6/29/2024 23:16	43401	BENT_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/29/2024 23:16	43402	BENT_T1	0	0	0	0	0	0	-0.86	-0.87	1	1	0	900	900	0
6/29/2024 23:58	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
6/29/2024 23:58	43401	BENT_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/29/2024 23:59	43401	BENT_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/29/2024 23:59	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
6/30/2024 0:19	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
6/30/2024 0:21	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
6/30/2024 0:37	58402	MORO_T1	0	0	0	0	0	0	-0.34	-0.35	2	2	0	1500	1500	0
6/30/2024 1:02	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
6/30/2024 1:04	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
6/30/2024 1:25	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
6/30/2024 1:26	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
6/30/2024 1:47	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
6/30/2024 1:48	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
6/30/2024 2:54	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
6/30/2024 2:55	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
6/30/2024 3:38	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
6/30/2024 3:39	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
6/30/2024 4:18	64203	KINZ_T1	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
6/30/2024 4:18	64201	KINZ_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
6/30/2024 4:18	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
6/30/2024 4:21	67605	WARW_T1	20	26	6	0.49	0.47	-0.02	-1.08	-1.08	0	0	0	0	0	0
6/30/2024 7:04	12504	MITR_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 7:04	12502	MITR_T2	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
6/30/2024 7:04	12505	MITR_T2	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
6/30/2024 7:04	12501	MITR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 7:05	53803	MBRG_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
6/30/2024 7:07	15203	SFAR_T2	0	0	0	0	0	0	-0.95	-0.92	0	0	0	0	0	0
6/30/2024 7:09	16501	STRO_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
6/30/2024 7:16	63305	GREE_T1	0	0	0	0	0	0	-1.91	-1.83	1	1	0	900	900	0
6/30/2024 7:18	12006	HATF_T1	0	0	0	0	0	0	0.71	0.79	0	0	0	0	0	0
6/30/2024 7:22	15203	SFAR_T2	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/30/2024 7:23	15203	SFAR_T2	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
6/30/2024 7:24	14601	SWHI_T1	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
6/30/2024 7:25	14601	SWHI_T1	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
6/30/2024 7:26	55102	WERT_T2	0	0	0	0	0	0	-1.32	-1.21	1	1	0	600	600	0
6/30/2024 7:31	63305	GREE_T1	0	0	0	0	0	0	-1.83	-1.87	1	1	0	900	900	0
6/30/2024 7:32	65401	MARI_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
6/30/2024 7:33	65401	MARI_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
6/30/2024 7:39	15803	WGAT_T1	44	13	-31	0.15	0.11	-0.04	1.19	1.27	0	0	0	0	0	0
6/30/2024 7:39	15801	WGAT_T1	265	224	-41	0.39	0.26	-0.13	0	0	0	0	0	0	0	0
6/30/2024 7:40	15803	WGAT_T1	44	13	-31	0.15	0.11	-0.04	1.19	1.27	0	0	0	0	0	0
6/30/2024 7:40	15801	WGAT_T1	265	224	-41	0.39	0.26	-0.13	0	0	0	0	0	0	0	0
6/30/2024 7:42	40504	CRES_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
6/30/2024 7:42	44301	BEAV_T2	0	0	0	0	0	0	-0.78	-0.77	1	1	0	600	600	0
6/30/2024 7:42	40505	CRES_T1	3	3	0	4.57	4.5	-0.07	0	0	0	0	0	0	0	0
6/30/2024 7:43	40505	CRES_T1	3	3	0	4.57	4.5	-0.07	0	0	0	0	0	0	0	0
6/30/2024 7:43	40504	CRES_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
6/30/2024 7:44	63501	HEID_TBK1-2	1	1	0	0.4	0.5	0.1	-0.18	-0.06	1	1	0	900	900	0
6/30/2024 7:46	64201	KINZ_T1	1	1	0	0.8	0.5	-0.3	0.31	-0.62	2	3	1	600	1500	900
6/30/2024 7:46	64204	KINZ_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
6/30/2024 7:47	40101	HUNT_T2	0	1	1	0	0	0	-0.56	-0.55	0	0	0	0	0	0
6/30/2024 7:50	52501	PROG_T1	0	0	0	0	0	0	0.58	0.58	2	2	0	600	600	0
6/30/2024 7:56	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 7:56	29402	BELT_T1	40	21	-19	0.7	0.69	-0.01	0	0	0	0	0	0	0	0
6/30/2024 7:57	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 7:58	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 7:59	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 8:07	67604	WARW_T1	0	0	0	0	0	0	0.02	0.07	0	0	0	0	0	0
6/30/2024 8:13	10901	COOP_T2	0	0	0	0	0	0	0.96	0.98	0	0	0	0	0	0
6/30/2024 8:14	64701	LITI_T1	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
6/30/2024 8:16	64902	MILL_T2	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
6/30/2024 8:18	64902	MILL_T2	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
6/30/2024 8:22	66202	SISP_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
6/30/2024 8:27	58006	WCAR_T2	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
6/30/2024 8:27	21203	ECAR_T1	0	1	1	0	0	0	0.64	0.64	0	0	0	0	0	0
6/30/2024 8:35	56501	ROCK_T2	1	1	0	0.3	0.3	0	-1.58	-1.54	0	0	0	0	0	0
6/30/2024 8:36	56501	ROCK_T2	1	1	0	0.3	0.3	0	-3.15	-3.07	0	0	0	0	0	0
6/30/2024 8:37	41902	REED_T1	0	0	0	0	0	0	0.35	0.36	1	1	0	900	900	0
6/30/2024 8:38	41902	REED_T1	0	0	0	0	0	0	0.35	0.36	1	1	0	900	900	0
6/30/2024 8:51	56501	ROCK_T2	1	1	0	0.3	0.4	0.1	-1.54	-1.5	0	0	0	0	0	0
6/30/2024 9:01	16902	MECK_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
6/30/2024 9:04	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 9:04	47401	PENS_T1	1	5	4	0.9	0.8	-0.1	0.07	0.17	0	0	0	0	0	0
6/30/2024 9:05	47401	PENS_T1	1	5	4	0.9	0.8	-0.1	0.07	0.17	0	0	0	0	0	0
6/30/2024 9:05	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 9:07	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 9:07	47401	PENS_T1	1	5	4	0.9	0.8	-0.1	0.17	0.13	0	0	0	0	0	0
6/30/2024 9:13	52403	GRPA_T2	1	24	23	0.7	0.51	-0.19	0	0	0	0	0	0	0	0
6/30/2024 9:13	52402	GRPA_T2	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
6/30/2024 9:13	52404	GRPA_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
6/30/2024 9:13	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 9:14	64203	KINZ_T1	0	0	0	0	0	0	0.7	0.51	0	0	0	0	0	0
6/30/2024 9:14	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
6/30/2024 9:14	64201	KINZ_T1	2	2	0	2.3	0.1	-2.2	0	0	0	0	0	0	0	0
6/30/2024 9:15	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 9:16	52403	GRPA_T2	21	24	3	0.66	0.57	-0.09	0	0	0	0	0	0	0	0
6/30/2024 9:16	52402	GRPA_T2	2	2	0	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
6/30/2024 9:16	52404	GRPA_T2	0	2	2	0	0	0	-0.07	-0.06	0	0	0	0	0	0
6/30/2024 9:16	52401	GRPA_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
6/30/2024 9:19	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
6/30/2024 9:19	64203	KINZ_T1	0	0	0	0	0	0	0.7	0.51	0	0	0	0	0	0
6/30/2024 9:19	64201	KINZ_T1	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
6/30/2024 9:21	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/30/2024 9:23	59101	WALK_T2	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
6/30/2024 9:25	59101	WALK_T2	0	0	0	0	0	0	-0.44	-0.37	0	0	0	0	0	0
6/30/2024 9:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/30/2024 9:40	56803	BENV_T1	1	5	4	0.8	0.85	0.05	0	0	0	0	0	0	0	0
6/30/2024 9:40	43304	WATS_T2	4	0	-4	0.2	0	-0.2	-0.82	-0.8	0	0	0	0	0	0
6/30/2024 9:40	56801	BENV_T1	6	6	0	0.4	0.2	-0.2	-0.69	-0.61	2	2	0	1200	1200	0
6/30/2024 9:44	20601	GRWO_T2	18	4	-14	0.33	0	-0.33	0.83	-0.02	0	0	0	0	0	0
6/30/2024 9:45	22901	HARW_T1	5	16	11	0.4	0.24	-0.16	-0.45	-0.58	1	1	0	1200	1200	0
6/30/2024 9:45	22903	HARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/30/2024 9:45	22905	HARW_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 9:46	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.18	2	2	0	1200	1200	0
6/30/2024 9:46	58402	MORO_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
6/30/2024 9:47	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.18	2	2	0	1200	1200	0
6/30/2024 9:47	58402	MORO_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
6/30/2024 9:47	20601	GRWO_T2	4	0	-4	0.25	0	-0.25	0.83	-0.02	0	0	0	0	0	0
6/30/2024 9:48	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.18	2	2	0	1200	1200	0
6/30/2024 9:48	58402	MORO_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
6/30/2024 9:55	56801	BENV_T1	4	6	2	0.2	0.53	0.33	-0.3	-0.26	1	1	0	600	600	0
6/30/2024 9:55	56803	BENV_T1	2	5	3	0.85	0.4	-0.45	0	0	0	0	0	0	0	0
6/30/2024 9:57	60801	BUCK_T1	0	0	0	0	0	0	-0.64	-0.63	1	1	0	600	600	0
6/30/2024 10:00	47401	PENS_T1	3	6	3	0.97	0.57	-0.4	0.11	0.14	0	0	0	0	0	0
6/30/2024 10:00	47402	PENS_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 10:00	67502	WEWI_T2	0	0	0	0	0	0	-1.27	-1.24	1	1	0	900	900	0
6/30/2024 10:00	47403	PENS_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/30/2024 10:00	64203	KINZ_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
6/30/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
6/30/2024 10:00	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 10:00	15203	SFAR_T2	0	0	0	0	0	0	-1.29	-1.2	0	0	0	0	0	0
6/30/2024 10:00	40505	CRES_T1	3	3	0	4.2	4.3	0.1	0.6	0.63	0	0	0	0	0	0
6/30/2024 10:00	64204	KINZ_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/30/2024 10:00	54701	NEBL_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
6/30/2024 10:00	67605	WARW_T1	0	0	0	0	0	0	-0.88	-0.85	0	0	0	0	0	0
6/30/2024 10:05	47402	PENS_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 10:05	47403	PENS_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/30/2024 10:05	47401	PENS_T1	3	6	3	0.97	0.57	-0.4	0.23	0.27	0	0	0	0	0	0
6/30/2024 10:07	47402	PENS_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 10:07	47401	PENS_T1	3	6	3	0.97	0.57	-0.4	0.27	0.41	0	0	0	0	0	0
6/30/2024 10:07	47403	PENS_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/30/2024 10:08	47402	PENS_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 10:08	47401	PENS_T1	3	6	3	0.97	0.57	-0.4	0.14	0.2	0	0	0	0	0	0
6/30/2024 10:08	47403	PENS_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
6/30/2024 10:11	56803	BENV_T1	5	1	-4	0.82	0.4	-0.42	0	0	0	0	0	0	0	0
6/30/2024 10:11	56801	BENV_T1	3	6	3	0.2	0.36	0.16	-0.26	-0.23	1	1	0	600	600	0
6/30/2024 10:12	21203	ECAR_T1	0	1	1	0	0.1	0.1	0.69	-0.23	0	0	0	0	0	0
6/30/2024 10:14	41602	CLEV_T1	3	38	35	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
6/30/2024 10:14	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/30/2024 10:16	20601	GRWO_T2	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
6/30/2024 10:16	20603	GRWO_T2	0	0	0	0	0	0	-0.35	-0.33	1	1	0	900	900	0
6/30/2024 10:16	12006	HATF_T1	0	0	0	0	0	0	0.91	1	0	0	0	0	0	0
6/30/2024 10:19	60502	NMAN_T2	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
6/30/2024 10:19	60501	NMAN_T2	3	3	0	4.5	4.5	0	0	0	0	0	0	0	0	0
6/30/2024 10:20	64101	REFR_T1	0	0	0	0	0	0	0.83	0.87	0	0	0	0	0	0
6/30/2024 10:20	56501	ROCK_T2	1	2	1	1.1	0.3	-0.8	-1.26	-2.48	0	0	0	0	0	0
6/30/2024 10:21	13903	SEID_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
6/30/2024 10:21	13905	SEID_T1	0	0	0	0	0	0	-0.58	-0.54	1	1	0	1200	1200	0
6/30/2024 10:21	60502	NMAN_T2	0	0	0	0	0	0	0.01	0.07	0	0	0	0	0	0
6/30/2024 10:21	60501	NMAN_T2	3	3	0	4.5	4.5	0	0	0	0	0	0	0	0	0
6/30/2024 10:21	64101	REFR_T1	0	0	0	0	0	0	0.87	0.91	0	0	0	0	0	0
6/30/2024 10:22	56501	ROCK_T2	1	2	1	1.1	0.3	-0.8	-2.48	-2.44	0	0	0	0	0	0
6/30/2024 10:22	43304	WATS_T2	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
6/30/2024 10:22	55101	WERT_T1	0	0	0	0	0	0	-4.18	-5.74	9	9	0	7200	7200	0
6/30/2024 10:22	64101	REFR_T1	0	0	0	0	0	0	0.87	0.91	0	0	0	0	0	0
6/30/2024 10:23	64101	REFR_T1	0	0	0	0	0	0	1.31	1.37	0	0	0	0	0	0
6/30/2024 10:23	45602	WOOL_T1	8	2	-6	0.33	0.35	0.02	0.77	0.82	0	0	0	0	0	0
6/30/2024 10:24	55101	WERT_T1	0	0	0	0	0	0	-2.78	-3.83	6	6	0	4800	4800	0
6/30/2024 10:24	56501	ROCK_T2	1	2	1	1.1	0.3	-0.8	-2.48	-2.44	0	0	0	0	0	0
6/30/2024 10:27	56803	BENV_T1	1	3	2	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/30/2024 10:27	56801	BENV_T1	4	8	4	0.43	0.42	-0.01	-0.23	-0.19	1	1	0	600	600	0
6/30/2024 10:28	46204	DANV_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
6/30/2024 10:28	46203	DANV_T2	2	4	2	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/30/2024 10:28	46206	DANV_T2	12	22	10	0.62	0.84	0.22	0.98	0.99	2	2	0	2100	2100	0
6/30/2024 10:28	60801	BUCK_T1	0	0	0	0	0	0	-0.61	-0.59	1	1	0	600	600	0
6/30/2024 10:29	46206	DANV_T2	12	22	10	0.62	0.84	0.22	1.96	1.98	4	4	0	4200	4200	0
6/30/2024 10:29	52404	GRPA_T2	4	0	-4	0.35	0	-0.35	-0.5	-0.49	0	0	0	0	0	0
6/30/2024 10:29	46203	DANV_T2	2	4	2	0.3	0	-0.3	-1.5	-1.46	0	0	0	0	0	0
6/30/2024 10:29	46803	HEPB_T2	0	0	0	0	0	0	0.64	0.66	0	0	0	0	0	0
6/30/2024 10:29	46204	DANV_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
6/30/2024 10:29	52401	GRPA_T2	7	6	-1	0.56	0.58	0.02	0	0	0	0	0	0	0	0
6/30/2024 10:29	52403	GRPA_T2	53	45	-8	0.74	0.48	-0.26	0	0	0	0	0	0	0	0
6/30/2024 10:29	46801	HEPB_T2	2	2	0	0.85	0.65	-0.2	0	0	0	0	0	0	0	0
6/30/2024 10:29	52402	GRPA_T2	11	11	0	0.87	0.7	-0.17	0	0	0	0	0	0	0	0
6/30/2024 10:30	46801	HEPB_T2	2	2	0	0.65	0.5	-0.15	0.11	0.14	0	0	0	0	0	0
6/30/2024 10:32	52401	GRPA_T2	6	4	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
6/30/2024 10:32	52404	GRPA_T2	0	40	40	0	0	0	-0.5	-0.49	0	0	0	0	0	0
6/30/2024 10:32	52402	GRPA_T2	11	5	-6	0.63	0.65	0.02	0	0	0	0	0	0	0	0
6/30/2024 10:32	52403	GRPA_T2	44	13	-31	0.68	0.5	-0.18	0	0	0	0	0	0	0	0
6/30/2024 10:33	23401	HONE_T2	0	1	1	0	0	0	0.11	0.13	0	0	0	0	0	0
6/30/2024 10:36	56501	ROCK_T2	0	2	2	0	0.4	0.4	-2.48	-2.44	0	0	0	0	0	0
6/30/2024 10:37	56501	ROCK_T2	0	2	2	0	0.4	0.4	-2.44	-2.41	0	0	0	0	0	0
6/30/2024 10:38	66901	SHIL_T2	0	0	0	0	0	0	0.33	0.41	0	0	0	0	0	0
6/30/2024 10:38	46301	ROHR_T1	2	3	1	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/30/2024 10:38	46302	ROHR_T1	4	7	3	0.55	0.14	-0.41	-0.23	-0.23	0	0	0	0	0	0
6/30/2024 10:38	56501	ROCK_T2	0	2	2	0	0.4	0.4	-2.44	-2.41	0	0	0	0	0	0
6/30/2024 10:40	67801	WLAN_T1	1	1	0	1.1	0.5	-0.6	0	-1.11	0	0	0	0	0	0
6/30/2024 10:40	29402	BELT_T1	97	94	-3	1.1	0.94	-0.16	0	0	0	0	0	0	0	0
6/30/2024 10:40	24902	WHHA_T1	0	0	0	0	0	0	1.09	1.11	0	0	0	0	0	0
6/30/2024 10:40	67804	WLAN_T1	7	10	3	0.4	0.48	0.08	0	0	0	0	0	0	0	0
6/30/2024 10:40	24901	WHHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/30/2024 10:42	56801	BENV_T1	6	4	-2	0.22	0.5	0.28	-0.19	-0.15	1	1	0	600	600	0
6/30/2024 10:42	63304	GREE_T1	0	0	0	0	0	0	-2.37	-2.33	0	0	0	0	0	0
6/30/2024 10:42	56803	BENV_T1	1	5	4	0.5	0.8	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/30/2024 10:43	52402	GRPA_T2	11	5	-6	0.63	0.65	0.02	0	0	0	0	0	0	0	0
6/30/2024 10:43	52401	GRPA_T2	6	4	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
6/30/2024 10:43	52403	GRPA_T2	44	13	-31	0.68	0.5	-0.18	-0.52	-0.51	0	0	0	0	0	0
6/30/2024 10:43	45802	HEGI_T2	47	37	-10	1.28	0.53	-0.75	0.4	0.38	0	0	0	0	0	0
6/30/2024 10:43	52404	GRPA_T2	0	40	40	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 10:45	63304	GREE_T1	0	0	0	0	0	0	-2.37	-2.33	0	0	0	0	0	0
6/30/2024 10:47	42902	MIDD_T2	1	2	1	0.7	0.7	0	-2.72	-0.64	3	0	-3	1800	0	-1800
6/30/2024 10:47	42903	MIDD_T2	2	2	0	0.35	1.5	1.15	0	0	0	0	0	0	0	0
6/30/2024 10:49	41902	REED_T1	41	87	46	0.44	0.44	0	0.91	0.94	2	2	0	1800	1800	0
6/30/2024 10:49	43201	MVIL_T2	6	12	6	1.13	0.72	-0.41	0	0	0	0	0	0	0	0
6/30/2024 10:49	41901	REED_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 10:49	43202	MVIL_T2	1	4	3	0.1	0.2	0.1	-0.56	-0.55	0	0	0	0	0	0
6/30/2024 10:50	43202	MVIL_T2	1	4	3	0.1	0.2	0.1	-0.56	-0.55	0	0	0	0	0	0
6/30/2024 10:50	42903	MIDD_T2	2	2	0	0.35	1.5	1.15	0	0	0	0	0	0	0	0
6/30/2024 10:50	42902	MIDD_T2	1	2	1	0.7	0.7	0	-0.91	-0.21	1	0	-1	600	0	-600
6/30/2024 10:50	43201	MVIL_T2	6	12	6	1.13	0.72	-0.41	0	0	0	0	0	0	0	0
6/30/2024 10:50	45802	HEGI_T2	36	30	-6	0.52	0.55	0.03	0.4	0.38	0	0	0	0	0	0
6/30/2024 10:53	41901	REED_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 10:53	41902	REED_T1	41	87	46	0.44	0.44	0	0.47	0.49	1	1	0	900	900	0
6/30/2024 10:54	20401	ASHF_T2	5	3	-2	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
6/30/2024 10:54	20402	ASHF_T2	2	6	4	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/30/2024 10:54	42202	SHEN_T2	0	154	154	0	2.51	2.51	0	0	0	0	0	0	0	0
6/30/2024 10:54	20403	ASHF_T2	1	1	0	0.8	1.1	0.3	-0.25	-0.23	0	0	0	0	0	0
6/30/2024 10:54	42201	SHEN_T2	0	1	1	0	0	0	0.97	0.44	0	1	1	0	600	600
6/30/2024 10:54	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/30/2024 10:54	29402	BELT_T1	82	90	8	0.93	0.95	0.02	0	0	0	0	0	0	0	0
6/30/2024 10:55	46203	DANV_T2	4	0	-4	0.4	0	-0.4	-2.32	-2.29	0	0	0	0	0	0
6/30/2024 10:55	58001	WCAR_T1	0	0	0	0	0	0	-1.06	-1.05	0	0	0	0	0	0
6/30/2024 10:55	46204	DANV_T2	2	5	3	0.55	0.65	0.1	0	0	0	0	0	0	0	0
6/30/2024 10:55	20403	ASHF_T2	1	1	0	0.8	1.1	0.3	-0.25	-0.23	0	0	0	0	0	0
6/30/2024 10:55	58003	WCAR_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
6/30/2024 10:55	46001	BERW_T1	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
6/30/2024 10:55	20401	ASHF_T2	5	3	-2	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
6/30/2024 10:55	46206	DANV_T2	15	24	9	0.79	0.61	-0.18	0	0	0	0	0	0	0	0
6/30/2024 10:55	20402	ASHF_T2	2	6	4	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/30/2024 10:56	46001	BERW_T1	0	0	0	0	0	0	-0.42	-0.36	0	0	0	0	0	0
6/30/2024 10:56	42202	SHEN_T2	0	154	154	0	2.51	2.51	0	0	0	0	0	0	0	0
6/30/2024 10:56	42201	SHEN_T2	0	1	1	0	0	0	0.97	0.44	0	1	1	0	600	600
6/30/2024 10:57	20401	ASHF_T2	5	3	-2	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
6/30/2024 10:57	20402	ASHF_T2	2	6	4	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/30/2024 10:57	20403	ASHF_T2	1	1	0	0.8	1.1	0.3	-0.25	-0.23	0	0	0	0	0	0
6/30/2024 10:59	22901	HARW_T1	1	11	10	0.2	0.48	0.28	-0.52	-0.43	1	1	0	1200	1200	0
6/30/2024 10:59	22903	HARW_T1	0	21	21	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 10:59	22905	HARW_T1	17	15	-2	0.49	1.14	0.65	0	0	0	0	0	0	0	0
6/30/2024 10:59	46206	DANV_T2	15	24	9	0.79	0.61	-0.18	0	0	0	0	0	0	0	0
6/30/2024 10:59	46203	DANV_T2	4	0	-4	0.4	0	-0.4	-2.32	-2.29	0	0	0	0	0	0
6/30/2024 10:59	29402	BELT_T1	82	90	8	0.93	0.95	0.02	0	0	0	0	0	0	0	0
6/30/2024 10:59	46204	DANV_T2	2	5	3	0.55	0.65	0.1	0	0	0	0	0	0	0	0
6/30/2024 11:00	54506	ENOL_T2	0	0	0	0	0	0	-0.26	-0.14	0	1	1	0	600	600
6/30/2024 11:01	40101	HUNT_T2	34	249	215	0.47	0.44	-0.03	-0.2	-0.21	0	0	0	0	0	0
6/30/2024 11:03	22905	HARW_T1	14	23	9	1.49	1.1	-0.39	0	0	0	0	0	0	0	0
6/30/2024 11:03	42201	SHEN_T2	0	1	1	0	0.4	0.4	0.97	0.44	0	1	1	0	600	600
6/30/2024 11:03	42202	SHEN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 11:03	22904	HARW_T1	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
6/30/2024 11:03	22901	HARW_T1	5	24	19	0.54	0.43	-0.11	0	0	0	0	0	0	0	0
6/30/2024 11:03	22903	HARW_T1	0	21	21	0	0.82	0.82	0	0	0	0	0	0	0	0
6/30/2024 11:04	59003	MIFF_T1	1	2	1	0.4	1.3	0.9	-0.29	-0.27	0	0	0	0	0	0
6/30/2024 11:04	12703	MACU_T2	0	0	0	0	0	0	-1.3	-0.96	0	0	0	0	0	0
6/30/2024 11:04	42201	SHEN_T2	0	1	1	0	0.4	0.4	0.97	0.44	0	1	1	0	600	600
6/30/2024 11:04	42202	SHEN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 11:05	65901	SAKR_T2	1	1	0	5.8	6.1	0.3	-0.7	-0.69	2	2	0	1500	1500	0
6/30/2024 11:06	52002	LING_T2	4	24	20	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
6/30/2024 11:06	52004	LING_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
6/30/2024 11:08	16302	ALPA_T2	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
6/30/2024 11:09	20401	ASHF_T2	2	5	3	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
6/30/2024 11:09	20403	ASHF_T2	1	1	0	1.1	0.9	-0.2	-0.23	-0.21	0	0	0	0	0	0
6/30/2024 11:09	16302	ALPA_T2	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
6/30/2024 11:09	20402	ASHF_T2	0	21	21	0	0.33	0.33	0	0	0	0	0	0	0	0
6/30/2024 11:10	16302	ALPA_T2	0	0	0	0	0	0	-0.49	-0.45	0	0	0	0	0	0
6/30/2024 11:12	20402	ASHF_T2	0	21	21	0	0.33	0.33	0	0	0	0	0	0	0	0
6/30/2024 11:12	20403	ASHF_T2	1	1	0	1.1	0.9	-0.2	-0.23	-0.21	0	0	0	0	0	0
6/30/2024 11:12	20401	ASHF_T2	2	5	3	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
6/30/2024 11:14	40901	JESH_T1	1	3	2	2.1	2.3	0.2	0	0	0	0	0	0	0	0
6/30/2024 11:14	67601	WARW_T2	0	0	0	0	0	0	-0.19	-0.16	0	0	0	0	0	0
6/30/2024 11:14	40902	JESH_T1	0	0	0	0	0	0	-2.13	-2.02	3	3	0	1800	1800	0
6/30/2024 11:16	40902	JESH_T1	0	0	0	0	0	0	-2.13	-2.02	3	3	0	1800	1800	0
6/30/2024 11:16	40901	JESH_T1	3	1	-2	0.83	2.1	1.27	0	0	0	0	0	0	0	0
6/30/2024 11:16	54505	ENOL_T2	0	0	0	0	0	0	-0.75	-0.72	1	1	0	600	600	0
6/30/2024 11:17	43201	MVIL_T2	9	7	-2	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
6/30/2024 11:17	43202	MVIL_T2	1	4	3	0.5	0.45	-0.05	-0.55	-0.54	0	0	0	0	0	0
6/30/2024 11:17	63501	HEID_TBK1-2	0	0	0	0	0	0	0.18	0.22	1	1	0	900	900	0
6/30/2024 11:17	65501	MOJO_T1	0	0	0	0	0	0	-0.72	-0.79	1	1	0	900	900	0
6/30/2024 11:19	48302	ORWI_T2	0	6	6	0	1.02	1.02	0	0	0	0	0	0	0	0
6/30/2024 11:19	48303	ORWI_T2	0	0	0	0	0	0	0.83	0.85	0	0	0	0	0	0
6/30/2024 11:22	57401	SPAN_T1	14	143	129	0.41	0.36	-0.05	-0.57	-0.49	1	1	0	600	600	0
6/30/2024 11:22	43301	WATS_T2	0	0	0	0	0	0	-0.17	-0.15	1	1	0	900	900	0
6/30/2024 11:22	43304	WATS_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
6/30/2024 11:22	57403	SPAN_T1	4	13	9	0.48	0.24	-0.24	0	0	0	0	0	0	0	0
6/30/2024 11:24	55102	WERT_T2	8	31	23	0.84	0.82	-0.02	-1.49	-1.47	2	2	0	1200	1200	0
6/30/2024 11:24	43304	WATS_T2	0	4	4	0	0.2	0.2	-0.65	-0.63	0	0	0	0	0	0
6/30/2024 11:25	22001	BOHE_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
6/30/2024 11:25	22003	BOHE_T1	3	2	-1	0.73	1.05	0.32	0	0	0	0	0	0	0	0
6/30/2024 11:26	66203	SISP_T2	2	0	-2	1.5	0	-1.5	0	0	0	0	0	0	0	0
6/30/2024 11:26	66202	SISP_T2	0	0	0	0	0	0	-0.31	-0.27	0	0	0	0	0	0
6/30/2024 11:30	22901	HARW_T1	22	33	11	0.49	1.2	0.71	0	0	0	0	0	0	0	0
6/30/2024 11:30	22903	HARW_T1	21	22	1	0.84	0.57	-0.27	-0.78	-0.69	0	0	0	0	0	0
6/30/2024 11:30	22905	HARW_T1	22	25	3	1.03	0	-1.03	0	0	0	0	0	0	0	0
6/30/2024 11:30	13503	MCMI_T2	2	0	-2	0.35	0	-0.35	-0.69	-0.67	0	0	0	0	0	0
6/30/2024 11:30	25503	MADI_T1	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
6/30/2024 11:30	25501	MADI_T1	1	6	5	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
6/30/2024 11:31	14403	SSLA_T1	2	7	5	1.45	0.54	-0.91	0.19	0.19	2	2	0	1200	1200	0
6/30/2024 11:31	14404	SSLA_T1	1	2	1	2.2	3.2	1	0	0	0	0	0	0	0	0
6/30/2024 11:31	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/30/2024 11:31	52401	GRPA_T2	5	4	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/30/2024 11:31	64701	LITI_T1	10	10	0	0.81	0.66	-0.15	0	0	0	0	0	0	0	0
6/30/2024 11:31	52403	GRPA_T2	50	60	10	0.82	0.58	-0.24	-0.48	-0.47	0	0	0	0	0	0
6/30/2024 11:31	64704	LITI_T1	0	0	0	0	0	0	0.34	0.32	1	1	0	600	600	0
6/30/2024 11:31	52402	GRPA_T2	23	7	-16	0.66	0.76	0.1	0	0	0	0	0	0	0	0
6/30/2024 11:32	40101	HUNT_T2	237	226	-11	0.5	0.71	0.21	-0.42	-0.38	0	0	0	0	0	0
6/30/2024 11:32	28805	LAKE_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
6/30/2024 11:33	13503	MCMI_T2	2	0	-2	0.35	0	-0.35	-0.69	-0.67	0	0	0	0	0	0
6/30/2024 11:34	13503	MCMI_T2	2	0	-2	0.35	0	-0.35	-0.69	-0.67	0	0	0	0	0	0
6/30/2024 11:34	64101	REPR_T1	3	10	7	0.5	1.23	0.73	0.52	0.55	0	0	0	0	0	0
6/30/2024 11:35	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 11:36	65001	NEFF_T2	0	0	0	0	0	0	-0.34	-0.38	1	1	0	1200	1200	0
6/30/2024 11:36	65005	NEFF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/30/2024 11:37	67605	WARW_T1	1	1	0	0.2	0.3	0.1	-0.77	-0.75	0	0	0	0	0	0
6/30/2024 11:37	67603	WARW_T1	0	0	0	0	0	0	-0.24	-0.21	0	0	0	0	0	0
6/30/2024 11:38	65802	RTWN_T2	0	1	1	0	0.4	0.4	0.44	0.47	0	0	0	0	0	0
6/30/2024 11:38	65803	RTWN_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
6/30/2024 11:38	67605	WARW_T1	1	1	0	0.2	0.3	0.1	-0.77	-0.75	0	0	0	0	0	0
6/30/2024 11:39	56803	BENV_T1	10	10	0	0.78	0.56	-0.22	0	0	0	0	0	0	0	0
6/30/2024 11:39	67605	WARW_T1	1	1	0	0.2	0.3	0.1	-0.77	-0.75	0	0	0	0	0	0
6/30/2024 11:39	56801	BENV_T1	6	16	10	0.67	0.44	-0.23	-0.61	-0.59	2	2	0	1200	1200	0
6/30/2024 11:40	46203	DANV_T2	0	6	6	0	0.12	0.12	-2.27	-2.26	0	0	0	0	0	0
6/30/2024 11:40	46206	DANV_T2	15	29	14	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
6/30/2024 11:40	56802	BENV_T2	0	1	1	0	0	0	-0.73	-0.7	0	0	0	0	0	0
6/30/2024 11:40	56803	BENV_T1	10	10	0	0.78	0.56	-0.22	0	0	0	0	0	0	0	0
6/30/2024 11:40	56801	BENV_T1	6	16	10	0.67	0.44	-0.23	-0.61	-0.59	2	2	0	1200	1200	0
6/30/2024 11:40	46204	DANV_T2	2	18	16	1.3	0.58	-0.72	0	0	0	0	0	0	0	0
6/30/2024 11:41	56801	BENV_T1	6	16	10	0.67	0.44	-0.23	-1.82	-1.78	6	6	0	3600	3600	0
6/30/2024 11:41	67605	WARW_T1	1	1	0	0.2	0.3	0.1	-0.77	-0.75	0	0	0	0	0	0
6/30/2024 11:41	56803	BENV_T1	10	10	0	0.78	0.56	-0.22	0	0	0	0	0	0	0	0
6/30/2024 11:42	56803	BENV_T1	10	10	0	0.78	0.56	-0.22	0	0	0	0	0	0	0	0
6/30/2024 11:42	56801	BENV_T1	6	16	10	0.67	0.44	-0.23	-1.21	-1.19	4	4	0	2400	2400	0
6/30/2024 11:42	46206	DANV_T2	15	29	14	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
6/30/2024 11:42	46204	DANV_T2	2	18	16	1.3	0.58	-0.72	0	0	0	0	0	0	0	0
6/30/2024 11:42	46203	DANV_T2	0	6	6	0	0.12	0.12	-2.27	-2.26	0	0	0	0	0	0
6/30/2024 11:43	56803	BENV_T1	10	10	0	0.78	0.56	-0.22	0	0	0	0	0	0	0	0
6/30/2024 11:43	56801	BENV_T1	6	16	10	0.67	0.44	-0.23	-1.82	-1.78	6	6	0	3600	3600	0
6/30/2024 11:44	46204	DANV_T2	2	18	16	1.3	0.58	-0.72	0	0	0	0	0	0	0	0
6/30/2024 11:44	56803	BENV_T1	10	10	0	0.78	0.56	-0.22	0	0	0	0	0	0	0	0
6/30/2024 11:44	46206	DANV_T2	15	29	14	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
6/30/2024 11:44	46203	DANV_T2	0	6	6	0	0.12	0.12	-2.27	-2.26	0	0	0	0	0	0
6/30/2024 11:44	56801	BENV_T1	6	16	10	0.67	0.44	-0.23	-0.61	-0.59	2	2	0	1200	1200	0
6/30/2024 11:45	46206	DANV_T2	18	30	12	0.54	0.61	0.07	0	0	0	0	0	0	0	0
6/30/2024 11:45	46203	DANV_T2	5	4	-1	0.12	0.15	0.03	-2.27	-2.26	0	0	0	0	0	0
6/30/2024 11:45	56801	BENV_T1	8	14	6	0.38	0.47	0.09	-0.61	-0.59	2	2	0	1200	1200	0
6/30/2024 11:45	56803	BENV_T1	10	10	0	0.7	0.66	-0.04	0	0	0	0	0	0	0	0
6/30/2024 11:45	46204	DANV_T2	5	20	15	0.58	0.33	-0.25	0	0	0	0	0	0	0	0
6/30/2024 11:46	40903	JESH_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
6/30/2024 11:46	42903	MIDD_T2	2	2	0	1.55	1.55	0	0	0	0	0	0	0	0	0
6/30/2024 11:46	40901	JESH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
6/30/2024 11:46	40902	JESH_T1	0	2	2	0	0.2	0.2	-2.01	-2	3	3	0	1800	1800	0
6/30/2024 11:46	42902	MIDD_T2	31	41	10	0.57	1.1	0.53	-0.18	-0.17	0	0	0	0	0	0
6/30/2024 11:46	63401	HONY_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
6/30/2024 11:48	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 11:48	52002	LING_T2	4	24	20	0.68	0.74	0.06	0	0	0	0	0	0	0	0
6/30/2024 11:48	52004	LING_T2	0	2	2	0	0.2	0.2	0.07	0.08	0	0	0	0	0	0
6/30/2024 11:48	52001	LING_T1	0	0	0	0	0	0	-0.42	-0.39	0	0	0	0	0	0
6/30/2024 11:48	40902	JESH_T1	0	2	2	0	0.2	0.2	-2.01	-2	3	3	0	1800	1800	0
6/30/2024 11:48	40901	JESH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
6/30/2024 11:48	40903	JESH_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/30/2024 11:49	64701	LITI_T1	8	10	2	0.66	0	-0.66	0.44	0.47	0	0	0	0	0	0
6/30/2024 11:50	67201	TEHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
6/30/2024 11:50	56501	ROCK_T2	2	3	1	0.45	0.8	0.35	-2.3	-2.27	0	0	0	0	0	0
6/30/2024 11:50	56504	ROCK_T2	4	22	18	0.6	0.63	0.03	0	0	0	0	0	0	0	0
6/30/2024 11:50	67203	TEHI_T1	0	0	0	0	0	0	1.17	1.2	1	1	0	900	900	0
6/30/2024 11:51	55408	SHER_T2	1	2	1	1.5	1	-0.5	-0.72	-0.73	1	1	0	1200	1200	0
6/30/2024 11:51	56504	ROCK_T2	4	22	18	0.6	0.63	0.03	0.5	0.51	0	0	0	0	0	0
6/30/2024 11:51	56501	ROCK_T2	2	3	1	0.45	0.8	0.35	0	0	0	0	0	0	0	0
6/30/2024 11:52	67904	WNHO_T1	0	0	0	0	0	0	-0.86	-0.85	1	1	0	1200	1200	0
6/30/2024 11:52	46301	ROHR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/30/2024 11:52	64101	REFR_T1	10	10	0	0.76	1.23	0.47	0.58	0.61	0	0	0	0	0	0
6/30/2024 11:52	56504	ROCK_T2	4	22	18	0.6	0.63	0.03	0.51	0.53	0	0	0	0	0	0
6/30/2024 11:52	56501	ROCK_T2	2	3	1	0.45	0.8	0.35	0	0	0	0	0	0	0	0
6/30/2024 11:52	46302	ROHR_T1	5	10	5	0.36	0.41	0.05	-0.21	-0.21	0	0	0	0	0	0
6/30/2024 11:52	67903	WNHO_T1	0	0	0	0	0	0	1.07	1.11	1	1	0	1200	1200	0
6/30/2024 11:52	67204	TEHI_T2	0	3	3	0	0.37	0.37	0.16	0.2	0	0	0	0	0	0
6/30/2024 11:53	46302	ROHR_T1	5	10	5	0.36	0.41	0.05	-0.21	-0.21	0	0	0	0	0	0
6/30/2024 11:53	66502	SMAN_T2	0	0	0	0	0	0	-1.58	-1.69	2	2	0	1800	1800	0
6/30/2024 11:53	66505	SMAN_T2	9	18	9	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
6/30/2024 11:53	56501	ROCK_T2	2	3	1	0.45	0.8	0.35	0	0	0	0	0	0	0	0
6/30/2024 11:53	55105	WERT_T1	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/30/2024 11:53	56504	ROCK_T2	4	22	18	0.6	0.63	0.03	0.51	0.53	0	0	0	0	0	0
6/30/2024 11:53	46301	ROHR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/30/2024 11:53	55101	WERT_T1	0	0	0	0	0	0	-1.6	-2.54	3	4	1	2400	3300	900
6/30/2024 11:53	66504	SMAN_T2	7	7	0	0.44	0.1	-0.34	0	0	0	0	0	0	0	0
6/30/2024 11:54	67401	WAKE_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
6/30/2024 11:54	56501	ROCK_T2	2	3	1	0.45	0.8	0.35	0	0	0	0	0	0	0	0
6/30/2024 11:54	55105	WERT_T1	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/30/2024 11:54	67901	WNHO_T2	39	15	-24	0.35	0.45	0.1	-0.03	-0.03	0	0	0	0	0	0
6/30/2024 11:54	44301	BEAV_T2	10	29	19	0.71	0.53	-0.18	0	0	0	0	0	0	0	0
6/30/2024 11:54	56504	ROCK_T2	4	22	18	0.6	0.63	0.03	1.03	1.07	0	0	0	0	0	0
6/30/2024 11:54	44302	BEAV_T2	2	3	1	0.55	0.6	0.05	0.57	0.57	0	0	0	0	0	0
6/30/2024 11:54	55101	WERT_T1	0	0	0	0	0	0	-3.19	-5.08	6	8	2	4800	6600	1800
6/30/2024 11:54	67902	WNHO_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
6/30/2024 11:55	46002	BERW_T2	0	1	1	0	0	0	-1.49	-1.47	1	1	0	900	900	0
6/30/2024 11:55	46004	BERW_T2	3	6	3	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
6/30/2024 11:55	66203	SISP_T2	0	1	1	0	1.4	1.4	-0.87	-0.86	1	1	0	1200	1200	0
6/30/2024 11:55	61102	BERK_T5	0	0	0	0	0	0	0.47	0.55	1	1	0	300	300	0
6/30/2024 11:55	66202	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 11:55	61101	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/30/2024 11:56	61101	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/30/2024 11:56	61102	BERK_T5	0	0	0	0	0	0	0.47	0.55	1	1	0	300	300	0
6/30/2024 11:56	60201	ATGL_T2	0	0	0	0	0	0	-0.24	-0.25	2	2	0	900	900	0
6/30/2024 11:57	21502	CEAV_T2	0	0	0	0	0	0	-1.23	-1.23	1	1	0	1200	1200	0
6/30/2024 11:58	67605	WARW_T1	1	0	-1	0.3	0	-0.3	-0.75	-0.75	0	0	0	0	0	0
6/30/2024 12:00	64203	KINZ_T1	0	0	0	0	0	0	0.05	-0.55	1	2	1	600	900	300
6/30/2024 12:00	64202	KINZ_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/30/2024 12:00	22602	KIMB_T1	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
6/30/2024 12:01	40101	HUNT_T2	154	205	51	0.75	0.45	-0.3	-0.17	-0.25	0	0	0	0	0	0
6/30/2024 12:04	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 12:04	64201	KINZ_T1	0	0	0	0	0	0	-0.33	-0.25	3	3	0	1500	1500	0
6/30/2024 12:04	52004	LING_T2	1	2	1	0.2	1	0.8	0.08	0.1	0	0	0	0	0	0
6/30/2024 12:04	47101	MARL_T1	51	89	38	0.96	1.05	0.09	-1.49	-1.34	2	2	0	1200	1200	0
6/30/2024 12:04	52002	LING_T2	22	10	-12	0.46	0.85	0.39	0	0	0	0	0	0	0	0
6/30/2024 12:04	64202	KINZ_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
6/30/2024 12:04	45702	LIND_T2	3	3	0	0.47	0.27	-0.2	-1.23	-1.2	0	0	0	0	0	0
6/30/2024 12:04	58402	MORO_T1	5	3	-2	0.66	0	-0.66	0	0	0	0	0	0	0	0
6/30/2024 12:04	47104	MARL_T1	9	0	-9	0.29	0	-0.29	0	0	0	0	0	0	0	0
6/30/2024 12:04	58401	MORO_T1	2	2	0	1.35	0.4	-0.95	-3.67	-3.63	6	6	0	4200	4200	0
6/30/2024 12:06	16402	MOPO_T1	3	7	4	0.67	0.5	-0.17	0	0	0	0	0	0	0	0
6/30/2024 12:06	16406	MOPO_T1	0	0	0	0	0	0	-0.85	-0.87	2	2	0	2100	2100	0
6/30/2024 12:06	27605	PIRI_T2	29	40	11	0.74	0.55	-0.19	0.37	0.42	1	1	0	900	900	0
6/30/2024 12:06	60502	NMAN_T2	0	1	1	0	0.6	0.6	-0.41	-0.41	0	0	0	0	0	0
6/30/2024 12:06	60501	NMAN_T2	3	3	0	3.93	4.5	0.57	0	0	0	0	0	0	0	0
6/30/2024 12:06	27603	PIRI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 12:06	60504	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 12:07	67605	WARW_T1	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
6/30/2024 12:07	56504	ROCK_T2	12	22	10	0.6	0.6	0	0.53	0.55	0	0	0	0	0	0
6/30/2024 12:07	56501	ROCK_T2	3	3	0	0.87	0.45	-0.42	-2.23	-2.2	0	0	0	0	0	0
6/30/2024 12:08	44301	BEAV_T2	24	39	15	0.51	0.54	0.03	-0.41	-0.39	1	1	0	600	600	0
6/30/2024 12:08	44302	BEAV_T2	3	3	0	0.6	0.67	0.07	0	0	0	0	0	0	0	0
6/30/2024 12:08	66505	SMAN_T2	16	21	5	0.2	0.46	0.26	0	0	0	0	0	0	0	0
6/30/2024 12:08	61102	BERK_T5	0	0	0	0	0	0	0.55	0.53	1	1	0	300	300	0
6/30/2024 12:08	55408	SHER_T2	2	3	1	1.6	1.3	-0.3	-0.75	-0.76	1	1	0	1200	1200	0
6/30/2024 12:08	66504	SMAN_T2	7	3	-4	0.93	0.1	-0.83	-0.4	-0.4	0	0	0	0	0	0
6/30/2024 12:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/30/2024 12:09	61101	BERK_T5	0	0	0	0	0	0	-1.33	-1.3	0	0	0	0	0	0
6/30/2024 12:09	56501	ROCK_T2	3	3	0	0.87	0.45	-0.42	-2.23	-2.2	0	0	0	0	0	0
6/30/2024 12:09	61102	BERK_T5	0	0	0	0	0	0	0.55	0.53	1	1	0	300	300	0
6/30/2024 12:09	56504	ROCK_T2	12	22	10	0.6	0.6	0	0	0	0	0	0	0	0	0
6/30/2024 12:09	29402	BELT_T1	59	46	-13	0.76	0.75	-0.01	0	0	0	0	0	0	0	0
6/30/2024 12:10	61102	BERK_T5	0	0	0	0	0	0	1.11	1.06	2	2	0	600	600	0
6/30/2024 12:11	61102	BERK_T5	0	0	0	0	0	0	0.55	0.53	1	1	0	300	300	0
6/30/2024 12:12	61101	BERK_T5	0	0	0	0	0	0	-1.33	-1.3	0	0	0	0	0	0
6/30/2024 12:12	61102	BERK_T5	0	0	0	0	0	0	0.55	0.53	1	1	0	300	300	0
6/30/2024 12:13	29402	BELT_T1	59	46	-13	0.76	0.75	-0.01	0	0	0	0	0	0	0	0
6/30/2024 12:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/30/2024 12:13	61102	BERK_T5	0	0	0	0	0	0	0.55	0.53	1	1	0	300	300	0
6/30/2024 12:14	61102	BERK_T5	0	0	0	0	0	0	0.55	0.53	1	1	0	300	300	0
6/30/2024 12:16	47101	MARL_T1	64	104	40	1.09	1.15	0.06	-0.67	-0.67	1	1	0	600	600	0
6/30/2024 12:17	47101	MARL_T1	64	104	40	1.09	1.15	0.06	-1.34	-1.33	2	2	0	1200	1200	0
6/30/2024 12:17	12701	MACU_T1	1	6	5	0.4	0.4	0	-0.74	-0.73	1	1	0	1200	1200	0
6/30/2024 12:17	40101	HUNT_T2	96	227	131	0.48	0.55	0.07	-0.25	-0.24	0	0	0	0	0	0
6/30/2024 12:18	52004	LING_T2	2	1	-1	1.05	0	-1.05	0	0	0	0	0	0	0	0
6/30/2024 12:18	52006	LING_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/30/2024 12:18	52002	LING_T2	10	6	-4	0.68	0.8	0.12	0.21	0.2	0	0	0	0	0	0
6/30/2024 12:18	40101	HUNT_T2	96	227	131	0.48	0.55	0.07	-0.25	-0.24	0	0	0	0	0	0
6/30/2024 12:19	56504	ROCK_T2	21	21	0	0.92	0.57	-0.35	0.53	0.55	0	0	0	0	0	0
6/30/2024 12:19	13303	ORVI_T1	0	0	0	0	0	0	0.44	0.49	0	0	0	0	0	0
6/30/2024 12:19	12701	MACU_T1	1	6	5	0.4	0.4	0	-0.74	-0.73	1	1	0	1200	1200	0
6/30/2024 12:19	56501	ROCK_T2	2	2	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
6/30/2024 12:20	47101	MARL_T1	64	104	40	1.09	1.15	0.06	-0.67	-0.67	1	1	0	600	600	0
6/30/2024 12:20	56504	ROCK_T2	21	21	0	0.92	0.57	-0.35	0.53	0.55	0	0	0	0	0	0
6/30/2024 12:20	56501	ROCK_T2	2	2	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
6/30/2024 12:21	52002	LING_T2	10	6	-4	0.68	0.8	0.12	0.21	0.2	0	0	0	0	0	0
6/30/2024 12:21	52004	LING_T2	2	1	-1	1.05	0	-1.05	0	0	0	0	0	0	0	0
6/30/2024 12:21	52006	LING_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/30/2024 12:22	52002	LING_T2	10	6	-4	0.68	0.8	0.12	0.39	-1.06	0	2	2	0	1800	1800
6/30/2024 12:22	52006	LING_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/30/2024 12:22	52004	LING_T2	2	1	-1	1.05	0	-1.05	0	0	0	0	0	0	0	0
6/30/2024 12:23	46302	ROHR_T1	10	13	3	0.62	0.56	-0.06	-0.2	-0.2	0	0	0	0	0	0
6/30/2024 12:23	46301	ROHR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/30/2024 12:24	25601	ARRO_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
6/30/2024 12:25	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/30/2024 12:25	29402	BELT_T1	39	47	8	0.77	0.73	-0.04	0	0	0	0	0	0	0	0
6/30/2024 12:26	56803	BENV_T1	9	10	1	0.82	1	0.18	0	0	0	0	0	0	0	0
6/30/2024 12:26	56801	BENV_T1	11	7	-4	0.48	0.56	0.08	-0.57	-0.56	2	2	0	1200	1200	0
6/30/2024 12:26	55101	WERT_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/30/2024 12:26	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 12:26	55105	WERT_T1	0	4	4	0	0.5	0.5	0.61	0.64	1	1	0	900	900	0
6/30/2024 12:27	61102	BERK_T5	0	0	0	0	0	0	0.53	-0.34	1	2	1	300	1200	900
6/30/2024 12:28	24105	EHAZ_T1	4	4	0	6.8	7.05	0.25	0	0	0	0	0	0	0	0
6/30/2024 12:28	24102	EHAZ_T1	22	23	1	2.1	0.87	-1.23	0	0	0	0	0	0	0	0
6/30/2024 12:28	24101	EHAZ_T1	20	23	3	0.58	0.51	-0.07	0	0	0	0	0	0	0	0
6/30/2024 12:28	56801	BENV_T1	11	7	-4	0.48	0.56	0.08	0	0	0	0	0	0	0	0
6/30/2024 12:28	24103	EHAZ_T1	0	0	0	0	0	0	-1.28	-1.34	0	0	0	0	0	0
6/30/2024 12:28	56803	BENV_T1	9	10	1	0.82	1	0.18	-0.99	-0.97	2	2	0	1200	1200	0
6/30/2024 12:29	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/30/2024 12:29	29402	BELT_T1	39	47	8	0.77	0.73	-0.04	0	0	0	0	0	0	0	0
6/30/2024 12:32	47101	MARL_T1	89	111	22	1.1	1.35	0.25	-0.67	-0.66	1	1	0	600	600	0
6/30/2024 12:32	47104	MARL_T1	0	9	9	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 12:33	47101	MARL_T1	89	111	22	1.1	1.35	0.25	-0.67	-0.66	1	1	0	600	600	0
6/30/2024 12:33	47104	MARL_T1	0	9	9	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 12:34	40101	HUNT_T2	204	199	-5	0.57	0.4	-0.17	-0.24	-0.23	0	0	0	0	0	0
6/30/2024 12:34	65602	QVIL_T2	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
6/30/2024 12:34	65601	QVIL_T2	2	4	2	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/30/2024 12:34	46302	ROHR_T1	11	14	3	0.59	0.34	-0.25	-0.2	-0.2	0	0	0	0	0	0
6/30/2024 12:34	64101	REFR_T1	10	11	1	0.85	2.31	1.46	0.06	0.08	0	0	0	0	0	0
6/30/2024 12:34	65604	QVIL_T2	0	1	1	0	0	0	0.55	0.59	0	0	0	0	0	0
6/30/2024 12:35	52002	LING_T2	6	1	-5	0.85	0.5	-0.35	0.2	-0.53	0	1	1	0	900	900
6/30/2024 12:35	52004	LING_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
6/30/2024 12:36	52002	LING_T2	6	1	-5	0.85	0.5	-0.35	0.2	-0.53	0	1	1	0	900	900
6/30/2024 12:36	52004	LING_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
6/30/2024 12:37	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 12:38	52004	LING_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
6/30/2024 12:38	52501	PROG_T1	0	0	0	0	0	0	0.55	0.55	1	1	0	300	300	0
6/30/2024 12:38	52002	LING_T2	6	1	-5	0.85	0.5	-0.35	-0.53	0.48	1	1	0	900	900	0
6/30/2024 12:39	20403	ASHF_T2	2	12	10	0.7	0.3	-0.4	0	0.06	0	0	0	0	0	0
6/30/2024 12:39	20401	ASHF_T2	11	52	41	0.59	0.72	0.13	0	0	0	0	0	0	0	0
6/30/2024 12:39	20402	ASHF_T2	24	112	88	1.46	0.58	-0.88	0	0	0	0	0	0	0	0
6/30/2024 12:39	59101	WALK_T2	1	1	0	0.2	0	-0.2	0.09	0.22	0	0	0	0	0	0
6/30/2024 12:40	24901	WHHA_T1	2	2	0	1.35	0	-1.35	0	0	0	0	0	0	0	0
6/30/2024 12:40	24902	WHHA_T1	4	8	4	0.65	0.9	0.25	0.61	0.62	0	0	0	0	0	0
6/30/2024 12:41	55103	WERT_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/30/2024 12:41	55105	WERT_T1	4	7	3	0.65	0.3	-0.35	0	0	0	0	0	0	0	0
6/30/2024 12:41	55101	WERT_T1	1	1	0	0.4	0.5	0.1	-2.54	-2.49	4	4	0	3300	3300	0
6/30/2024 12:42	60801	BUCK_T1	0	0	0	0	0	0	-0.7	-1.34	1	1	0	600	600	0
6/30/2024 12:45	12704	MACU_T1	0	5	5	0	0.27	0.27	0	0	0	0	0	0	0	0
6/30/2024 12:45	12701	MACU_T1	3	9	6	0.43	0.78	0.35	-0.71	-0.69	1	1	0	1200	1200	0
6/30/2024 12:46	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 12:46	64204	KINZ_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/30/2024 12:46	64201	KINZ_T1	0	1	1	0	0	0	-0.74	-0.63	4	4	0	2100	2100	0
6/30/2024 12:47	40101	HUNT_T2	198	103	-95	0.61	0.4	-0.21	-0.23	-0.76	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/30/2024 12:47	14404	SSLA_T1	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
6/30/2024 12:47	14401	SSLA_T1	5	2	-3	0.32	0.5	0.18	0	0	0	0	0	0	0	0
6/30/2024 12:47	14403	SSLA_T1	10	7	-3	1.01	0.5	-0.51	0.29	0.33	2	2	0	1200	1200	0
6/30/2024 12:48	40101	HUNT_T2	198	103	-95	0.61	0.4	-0.21	-0.23	-0.76	0	0	0	0	0	0
6/30/2024 12:49	25402	LAHA_T2	0	0	0	0	0	0	-0.34	-0.39	0	0	0	0	0	0
6/30/2024 12:49	25404	LAHA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 12:49	51004	NHAR_T1	1	1	0	7.2	7.4	0.2	-1.19	-1.18	0	0	0	0	0	0
6/30/2024 12:50	12701	MACU_T1	3	9	6	0.43	0.78	0.35	-0.71	-0.69	1	1	0	1200	1200	0
6/30/2024 12:50	13606	RICH_T2	18	3	-15	1.09	7.4	6.31	1.17	0.24	0	0	0	0	0	0
6/30/2024 12:50	14403	SSLA_T1	10	7	-3	1.01	0.5	-0.51	0.29	0.33	2	2	0	1200	1200	0
6/30/2024 12:50	51004	NHAR_T1	1	1	0	7.2	7.4	0.2	-1.19	-1.18	0	0	0	0	0	0
6/30/2024 12:50	14404	SSLA_T1	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
6/30/2024 12:50	14401	SSLA_T1	5	2	-3	0.32	0.5	0.18	0	0	0	0	0	0	0	0
6/30/2024 12:50	12704	MACU_T1	0	5	5	0	0.27	0.27	0	0	0	0	0	0	0	0
6/30/2024 12:51	54601	SUMM_T2	7	7	0	0.54	0.7	0.16	0	0	6	6	0	6000	6000	0
6/30/2024 12:51	54602	SUMM_T2	4	11	7	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/30/2024 12:51	12701	MACU_T1	3	9	6	0.43	0.78	0.35	-0.69	-0.67	1	1	0	1200	1200	0
6/30/2024 12:51	12704	MACU_T1	0	5	5	0	0.27	0.27	0	0	0	0	0	0	0	0
6/30/2024 12:52	52002	LING_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
6/30/2024 12:52	52006	LING_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 12:52	52004	LING_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
6/30/2024 12:53	54602	SUMM_T2	4	11	7	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/30/2024 12:53	54601	SUMM_T2	7	7	0	0.54	0.7	0.16	0	0	3	3	0	3000	3000	0
6/30/2024 12:53	67605	WARW_T1	0	0	0	0	0	0	-0.67	-0.64	0	0	0	0	0	0
6/30/2024 12:54	55102	WERT_T2	119	118	-1	1.06	1	-0.06	-1.04	-1.02	2	2	0	1200	1200	0
6/30/2024 12:54	54602	SUMM_T2	4	11	7	0.4	0.5	0.1	0	0	0	0	0	0	0	0
6/30/2024 12:54	54601	SUMM_T2	7	7	0	0.54	0.7	0.16	0	0	3	3	0	3000	3000	0
6/30/2024 12:54	WNHO_T1	WNHO_T1	0	0	0	0	0	0	-1.79	-1.79	2	2	0	2100	2100	0
6/30/2024 12:54	55104	WERT_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/30/2024 12:55	61306	EARL_T1	0	0	0	0	0	0	-1.12	-1.12	0	0	0	0	0	0
6/30/2024 12:55	66201	SISP_T2	0	0	0	0	0	0	-0.49	-0.46	0	0	0	0	0	0
6/30/2024 12:55	66203	SISP_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/30/2024 12:56	60101	COCA_T1	1	1	0	0.8	1.2	0.4	-0.24	-0.21	1	1	0	1200	1200	0
6/30/2024 12:56	66201	ATGL_T2	0	0	0	0	0	0	-0.1	-0.09	2	2	0	900	900	0
6/30/2024 12:57	55104	WERT_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
6/30/2024 12:57	55102	WERT_T2	119	118	-1	1.06	1	-0.06	-1.04	-1.02	2	2	0	1200	1200	0
6/30/2024 13:00	51804	EBEN_T2	0	2	2	0	0	0	-0.53	-0.51	1	1	0	900	900	0
6/30/2024 13:00	51802	EBEN_T2	5	14	9	0.62	0.85	0.23	0	0	0	0	0	0	0	0
6/30/2024 13:00	45801	HEGI_T1	0	0	0	0	0	0	-0.38	-0.39	1	1	0	900	900	0
6/30/2024 13:01	41301	FISH_T1	3	2	-1	1.03	1	-0.03	-0.71	-0.71	0	0	0	0	0	0
6/30/2024 13:01	41303	FISH_T1	7	5	-2	1.13	1.2	0.07	0	0	0	0	0	0	0	0
6/30/2024 13:01	64305	LINC_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
6/30/2024 13:01	65501	MOJO_T1	0	0	0	0	0	0	-0.71	-0.74	1	1	0	900	900	0
6/30/2024 13:02	47104	MARL_T1	9	9	0	0.49	0.42	-0.07	0	0	0	0	0	0	0	0
6/30/2024 13:02	47101	MARL_T1	100	198	98	1.52	1.28	-0.24	-0.66	-0.65	1	1	0	600	600	0
6/30/2024 13:04	64302	LINC_T2	7	8	1	0.46	0.27	-0.19	1.48	1.54	0	0	0	0	0	0
6/30/2024 13:05	41303	FISH_T1	7	5	-2	1.13	1.2	0.07	0	0	0	0	0	0	0	0
6/30/2024 13:05	51003	NHAR_T1	0	0	0	0	0	0	-2.68	-2.68	1	1	0	1200	1200	0
6/30/2024 13:05	41301	FISH_T1	3	2	-1	1.03	1	-0.03	-0.36	-0.36	0	0	0	0	0	0
6/30/2024 13:05	51004	NHAR_T1	1	1	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
6/30/2024 13:06	66505	SMAN_T2	93	53	-40	0.38	0.37	-0.01	0.49	0.28	4	4	0	2300	2300	0
6/30/2024 13:06	65604	QVIL_T2	0	3	3	0	0	0	0.68	0.72	0	0	0	0	0	0
6/30/2024 13:06	45301	WBER_T2	0	0	0	0	0	0	-1.16	-1.18	2	2	0	2400	2400	0
6/30/2024 13:06	65602	QVIL_T2	2	9	7	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
6/30/2024 13:06	66504	SMAN_T2	7	1	-6	0.5	0.4	-0.1	-0.27	-0.25	0	0	0	0	0	0
6/30/2024 13:06	49803	UNIV_T1	3	3	0	0.37	0.1	-0.27	-0.13	-0.12	0	0	0	0	0	0
6/30/2024 13:06	45302	WBER_T2	2	13	11	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/30/2024 13:06	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 13:06	65603	QVIL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
6/30/2024 13:06	49804	UNIV_T1	1	3	2	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/30/2024 13:06	65601	QVIL_T2	4	0	-4	0.25	0	-0.25	0	0	0	0	0	0	0	0
6/30/2024 13:07	54601	SUMM_T2	3	11	8	0.5	0.96	0.46	0	0	3	3	0	3000	3000	0
6/30/2024 13:07	66505	SMAN_T2	93	53	-40	0.38	0.37	-0.01	0	0	0	0	0	0	0	0
6/30/2024 13:07	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 13:07	66504	SMAN_T2	7	1	-6	0.5	0.4	-0.1	-0.54	-0.5	0	0	0	0	0	0
6/30/2024 13:07	54602	SUMM_T2	7	11	4	0.5	0.65	0.15	0	0	0	0	0	0	0	0
6/30/2024 13:08	45303	WBER_T2	0	0	0	0	0	0	-1.02	-0.91	0	0	0	0	0	0
6/30/2024 13:08	13606	RICH_T2	3	3	0	2.63	7.2	4.57	0.21	0.18	0	0	0	0	0	0
6/30/2024 13:08	58003	WCAR_T1	0	0	0	0	0	0	0.46	0.46	1	1	0	600	600	0
6/30/2024 13:08	45302	WBER_T2	2	13	11	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
6/30/2024 13:09	61101	BERK_T5	0	9	9	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 13:09	61102	BERK_T5	0	0	0	0	0	0	-0.44	-0.28	2	2	0	1200	1200	0
6/30/2024 13:10	67605	WARW_T1	0	0	0	0	0	0	-0.64	-0.61	0	0	0	0	0	0
6/30/2024 13:12	61102	BERK_T5	0	0	0	0	0	0	-0.44	-0.28	2	2	0	1200	1200	0
6/30/2024 13:12	61101	BERK_T5	0	9	9	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 13:13	21206	ECAR_T2	6	7	1	1.33	1.37	0.04	0.35	0.33	0	0	0	0	0	0
6/30/2024 13:13	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 13:14	47001	HUGH_T2	3	4	1	7.17	7.9	0.73	-1.15	-1.14	1	1	0	900	900	0
6/30/2024 13:17	47001	HUGH_T2	3	3	0	7.9	7.37	-0.53	-1.15	-1.14	1	1	0	900	900	0
6/30/2024 13:20	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 13:20	66504	SMAN_T2	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
6/30/2024 13:20	66505	SMAN_T2	52	38	-14	0.42	0.38	-0.04	0	0	0	0	0	0	0	0
6/30/2024 13:20	66502	SMAN_T2	0	0	0	0	0	0	-1.67	-1.71	1	1	0	900	900	0
6/30/2024 13:21	52004	LING_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 13:21	43301	WATS_T2	1	4	3	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
6/30/2024 13:21	52002	LING_T2	1	10	9	0.2	0.68	0.48	-0.5	-0.48	1	1	0	900	900	0
6/30/2024 13:21	43304	WATS_T2	14	14	0	0.27	0.37	0.1	0	0	0	0	0	0	0	0
6/30/2024 13:21	43302	WATS_T2	1	0	-1	0.9	0	-0.9	-0.55	-0.55	2	2	0	1800	1800	0
6/30/2024 13:21	52006	LING_T2	3	5	2	0.4	0.4	0	0	0	0	0	0	0	0	0
6/30/2024 13:23	61102	BERK_T5	0	0	0	0	0	0	-0.28	-0.4	2	2	0	1200	1200	0
6/30/2024 13:23	13604	RICH_T2	0	0	0	0	0	0	-2.22	-2.19	3	3	0	2100	2100	0
6/30/2024 13:23	61101	BERK_T5	0	9	9	0	0.33	0.33	0	0	0	0	0	0	0	0
6/30/2024 13:23	13606	RICH_T2	1	5	4	7.4	2.5	-4.9	0	0	0	0	0	0	0	0
6/30/2024 13:23	11507	FREE_T2	31	189	158	0.87	0.7	-0.17	0.93	1.34	1	1	0	600	600	0
6/30/2024 13:26	16302	ALPA_T2	0	2	2	0	0	0	-0.09	-0.08	0	0	0	0	0	0
6/30/2024 13:26	44801	EDAN_T2	16	32	16	0.71	0.52	-0.19	0.94	0.94	0	0	0	0	0	0
6/30/2024 13:28	46206	DANV_T2	44	64	20	0.61	0.65	0.04	0.99	0.97	2	2	0	2100	2100	0
6/30/2024 13:28	46203	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 13:28	46204	DANV_T2	7	53	46	0.61	0.33	-0.28	0	0	0	0	0	0	0	0
6/30/2024 13:29	21901	HUMB_T1	4	6	2	0.5	0.65	0.15	-2.7	-2.68	0	0	0	0	0	0
6/30/2024 13:30	41602	CLEV_T1	62	28	-34	0.63	0.49	-0.14	0	0	2	2	0	1500	1500	0
6/30/2024 13:32	46206	DANV_T2	63	58	-5	0.82	0.59	-0.23	0.99	0.97	2	2	0	2100	2100	0
6/30/2024 13:32	46203	DANV_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/30/2024 13:32	28702	HAML_T2	0	1	1	0	0	0	0.39	0.39	0	0	0	0	0	0
6/30/2024 13:32	46204	DANV_T2	49	38	-11	0.32	0.2	-0.12	0	0	0	0	0	0	0	0
6/30/2024 13:32	28701	HAML_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/30/2024 13:32	22701	MINO_T1	0	0	0	0	0	0	-0.27	-0.32	1	1	0	600	600	0
6/30/2024 13:33	48302	ORWI_T2	12	9	-3	0.68	0.36	-0.32	-0.03	-0.01	0	0	0	0	0	0
6/30/2024 13:33	52404	GRPA_T2	2	11	9	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/30/2024 13:33	52401	GRPA_T2	52	75	23	0.59	0.59	0	-1.45	-1.44	0	0	0	0	0	0
6/30/2024 13:33	55001	NEWP_T1	39	34	-5	0.61	0.47	-0.14	-0.16	-0.15	0	0	0	0	0	0
6/30/2024 13:33	52403	GRPA_T2	206	140	-66	1.1	0.96	-0.14	-0.39	-0.37	0	0	0	0	0	0
6/30/2024 13:33	55002	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/30/2024 13:33	52402	GRPA_T2	46	80	34	0.52	0.52	0	0	0	0	0	0	0	0	0
6/30/2024 13:34	14401	SSLA_T1	8	17	9	0.43	0.76	0.33	0	0	0	0	0	0	0	0
6/30/2024 13:34	14403	SSLA_T1	4	17	13	0.98	0.97	-0.01	-0.18	-0.15	3	3	0	1800	1800	0
6/30/2024 13:34	43402	BENT_T1	3	0	-3	0.67	0	-0.67	-0.75	-0.75	1	1	0	900	900	0
6/30/2024 13:34	14404	SSLA_T1	1	6	5	2.7	2.3	-0.4	0	0	0	0	0	0	0	0
6/30/2024 13:35	55001	NEWP_T1	39	34	-5	0.61	0.47	-0.14	-0.16	-0.15	0	0	0	0	0	0
6/30/2024 13:35	47101	MARL_T1	194	205	11	1.28	1.32	0.04	-0.6	-0.65	1	1	0	600	600	0
6/30/2024 13:35	47104	MARL_T1	9	18	9	0.42	0.16	-0.26	0	0	0	0	0	0	0	0
6/30/2024 13:35	55002	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/30/2024 13:36	42601	TUSC_T1	0	29	29	0	0	0	-1	-0.32	2	2	0	1800	1800	0
6/30/2024 13:36	56501	ROCK_T2	7	10	3	1.26	0.93	-0.33	-4.12	-4.05	0	0	0	0	0	0
6/30/2024 13:36	56504	ROCK_T2	77	87	10	0.7	0.64	-0.06	0	0	0	0	0	0	0	0
6/30/2024 13:36	54602	SUMM_T2	8	14	6	0.65	0.38	-0.27	0	0	0	0	0	0	0	0
6/30/2024 13:36	54601	SUMM_T2	10	15	5	0.77	0.78	0.01	0	0	3	3	0	3000	3000	0
6/30/2024 13:36	66701	STRA_T1	3	5	2	0.33	0	-0.33	0	0	0	0	0	0	0	0
6/30/2024 13:36	56503	ROCK_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/30/2024 13:36	54603	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 13:36	66703	STRA_T1	8	19	11	0.28	0.23	-0.05	-0.3	-0.29	0	0	0	0	0	0
6/30/2024 13:37	56501	ROCK_T2	7	10	3	1.26	0.93	-0.33	-2.02	-1.99	0	0	0	0	0	0
6/30/2024 13:37	56503	ROCK_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/30/2024 13:37	66703	STRA_T1	8	19	11	0.28	0.23	-0.05	-0.3	-0.29	0	0	0	0	0	0
6/30/2024 13:37	56504	ROCK_T2	77	87	10	0.7	0.64	-0.06	0	0	0	0	0	0	0	0
6/30/2024 13:37	66701	STRA_T1	3	5	2	0.33	0	-0.33	0	0	0	0	0	0	0	0
6/30/2024 13:38	56504	ROCK_T2	77	87	10	0.7	0.64	-0.06	0	0	0	0	0	0	0	0
6/30/2024 13:38	56503	ROCK_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/30/2024 13:38	56501	ROCK_T2	7	10	3	1.26	0.93	-0.33	-4.05	-3.99	0	0	0	0	0	0
6/30/2024 13:39	55105	WERT_T1	7	14	7	0.64	0.67	0.03	0	0	0	0	0	0	0	0
6/30/2024 13:39	55101	WERT_T1	1	1	0	0.4	0.4	0	-2.37	-2.51	4	4	0	3300	3300	0
6/30/2024 13:39	56503	ROCK_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/30/2024 13:39	55103	WERT_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
6/30/2024 13:39	56501	ROCK_T2	7	10	3	1.26	0.93	-0.33	0	0	0	0	0	0	0	0
6/30/2024 13:39	56504	ROCK_T2	77	87	10	0.7	0.64	-0.06	0.5	-0.07	0	0	0	0	0	0
6/30/2024 13:41	20402	ASHF_T2	167	272	105	0.6	0.54	-0.06	0	0	0	0	0	0	0	0
6/30/2024 13:41	20401	ASHF_T2	31	97	66	0.61	0.52	-0.09	0	0	0	0	0	0	0	0
6/30/2024 13:41	20403	ASHF_T2	52	69	17	0.5	0.36	-0.14	0.15	0.18	0	0	0	0	0	0
6/30/2024 13:42	56803	BENV_T1	8	11	3	1.1	1.78	0.68	-0.43	-0.42	1	1	0	600	600	0
6/30/2024 13:42	63401	HONY_T1	0	0	0	0	0	0	0.33	0.5	0	0	0	0	0	0
6/30/2024 13:42	56801	BENV_T1	11	6	-5	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
6/30/2024 13:43	60903	DONG_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 13:43	56501	ROCK_T2	7	10	3	1.26	0.93	-0.33	0	0	0	0	0	0	0	0
6/30/2024 13:43	56503	ROCK_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/30/2024 13:43	60902	DONG_T2	2	2	0	0.3	0.3	0	0.74	0.75	0	0	0	0	0	0
6/30/2024 13:43	60901	DONG_T2	17	27	10	1.34	1.65	0.31	0	0	0	0	0	0	0	0
6/30/2024 13:43	56504	ROCK_T2	77	87	10	0.7	0.64	-0.06	0.5	-0.07	0	0	0	0	0	0
6/30/2024 13:44	63401	HONY_T1	0	0	0	0	0	0	0.33	0.5	0	0	0	0	0	0
6/30/2024 13:45	63401	HONY_T1	0	0	0	0	0	0	0.33	0.5	0	0	0	0	0	0
6/30/2024 13:45	63404	HONY_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 13:47	57303	MOAL_T2	1	1	0	9.6	9.7	0.1	0	0	0	0	0	0	0	0
6/30/2024 13:47	57304	MOAL_T2	11	16	5	0.49	0.39	-0.1	-1	-0.98	0	0	0	0	0	0
6/30/2024 13:47	57302	MOAL_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/30/2024 13:49	40603	PIGR_T1	43	63	20	1.04	1.13	0.09	0	0	0	0	0	0	0	0
6/30/2024 13:49	40601	PIGR_T1	3	13	10	0.8	0.43	-0.37	0.24	0.25	0	0	0	0	0	0
6/30/2024 13:49	40602	PIGR_T1	4	7	3	0.43	0.7	0.27	0	0	0	0	0	0	0	0
6/30/2024 13:50	40603	PIGR_T1	43	63	20	1.04	1.13	0.09	0.91	0.88	0	0	0	0	0	0
6/30/2024 13:50	40601	PIGR_T1	3	13	10	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
6/30/2024 13:50	40602	PIGR_T1	4	7	3	0.43	0.7	0.27	0	0	0	0	0	0	0	0
6/30/2024 13:50	52002	LING_T2	7	5	-2	0.48	0.6	0.12	-0.42	-0.43	1	1	0	900	900	0
6/30/2024 13:50	52004	LING_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 13:50	52006	LING_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/30/2024 13:51	66703	STRA_T1	18	17	-1	0.23	0.3	0.07	-0.29	-0.25	0	0	0	0	0	0
6/30/2024 13:51	66701	STRA_T1	5	7	2	0.46	0	-0.46	0	0	0	0	0	0	0	0
6/30/2024 13:52	66701	STRA_T1	5	7	2	0.46	0	-0.46	0.7	0.74	1	1	0	600	600	0
6/30/2024 13:52	66703	STRA_T1	18	17	-1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
6/30/2024 13:53	40601	PIGR_T1	3	13	10	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
6/30/2024 13:53	40603	PIGR_T1	43	63	20	1.04	1.13	0.09	0	0	0	0	0	0	0	0
6/30/2024 13:53	40602	PIGR_T1	4	7	3	0.43	0.7	0.27	-0.94	-0.93	1	1	0	600	600	0
6/30/2024 13:54	66504	SMAN_T2	2	7	5	0.2	0.2	0	-0.18	-0.15	0	0	0	0	0	0
6/30/2024 13:54	66505	SMAN_T2	35	139	104	0.51	0.32	-0.19	0	0	0	0	0	0	0	0
6/30/2024 13:55	41602	CLEV_T1	15	53	38	0.55	0.84	0.29	0	0	0	0	0	0	0	0
6/30/2024 13:55	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/30/2024 13:57	58803	COCO_T1	41	122	81	0.44	0.51	0.07	-0.52	-0.51	1	1	0	600	600	0
6/30/2024 13:58	58801	COCO_T2	0	0	0	0	0	0	-1.23	-1.25	2	2	0	2400	2400	0
6/30/2024 13:58	61703	ELIZ_T1	0	18	18	0	0.28	0.28	-3.83	-4.26	4	4	0	4200	4200	0
6/30/2024 13:58	61701	ELIZ_T1	3	3	0	0.57	0.23	-0.34	0	0	0	0	0	0	0	0
6/30/2024 13:59	61703	ELIZ_T1	0	18	18	0	0.28	0.28	-3.83	-4.26	4	4	0	4200	4200	0
6/30/2024 13:59	58803	COCO_T1	41	122	81	0.44	0.51	0.07	-0.52	-0.51	1	1	0	600	600	0
6/30/2024 13:59	61701	ELIZ_T1	3	3	0	0.57	0.23	-0.34	0	0	0	0	0	0	0	0
6/30/2024 14:01	64201	KINZ_T1	0	0	0	0	0	0	-0.61	-0.61	4	4	0	2100	2100	0
6/30/2024 14:01	64204	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/30/2024 14:01	64202	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/30/2024 14:01	64304	LINC_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 14:01	64302	LINC_T2	0	8	8	0	0.23	0.23	1.61	1.66	0	0	0	0	0	0
6/30/2024 14:04	42901	MIDD_T2	0	64	64	0	1	1	0	0	0	0	0	0	0	0
6/30/2024 14:04	46102	MACI_T1	0	0	0	0	0	0	1.18	1.18	0	0	0	0	0	0
6/30/2024 14:04	40902	JESH_T1	0	0	0	0	0	0	-2.04	-2.06	3	3	0	1800	1800	0
6/30/2024 14:04	42903	MIDD_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
6/30/2024 14:04	40901	JESH_T1	2	3	1	1.15	0.9	-0.25	0	0	0	0	0	0	0	0
6/30/2024 14:04	42902	MIDD_T2	53	4	-49	1.45	0.35	-1.1	-0.12	-0.18	0	0	0	0	0	0
6/30/2024 14:04	40903	JESH_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 14:05	66703	STRA_T1	10	20	10	0.3	0.48	0.18	0	0	0	0	0	0	0	0
6/30/2024 14:05	66701	STRA_T1	0	15	15	0	0.46	0.46	0.7	0.74	1	1	0	600	600	0
6/30/2024 14:06	47402	PENS_T1	3	333	330	0.47	0.9	0.43	0	0	0	0	0	0	0	0
6/30/2024 14:06	47403	PENS_T1	1	4	3	2.1	2.1	0	0	0	0	0	0	0	0	0
6/30/2024 14:06	47401	PENS_T1	5	960	955	0.8	1.45	0.65	0.95	1.43	0	0	0	0	0	0
6/30/2024 14:07	66701	STRA_T1	0	15	15	0	0.46	0.46	1.47	1.54	2	2	0	1200	1200	0
6/30/2024 14:07	66703	STRA_T1	10	20	10	0.3	0.48	0.18	0	0	0	0	0	0	0	0
6/30/2024 14:07	59101	WALK_T2	8	1	-7	0.28	0	-0.28	0.27	0.24	0	0	0	0	0	0
6/30/2024 14:10	66703	STRA_T1	10	20	10	0.3	0.48	0.18	0	0	0	0	0	0	0	0
6/30/2024 14:10	57106	SPHI_T2	2	3	1	0.15	0.47	0.32	0	0	0	0	0	0	0	0
6/30/2024 14:10	66701	STRA_T1	0	15	15	0	0.46	0.46	0.74	0.77	1	1	0	600	600	0
6/30/2024 14:10	57104	SPHI_T2	1	1	0	2.6	2.3	-0.3	-1.93	-1.92	1	1	0	900	900	0
6/30/2024 14:13	11805	FRAN_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 14:13	20401	ASHF_T2	97	74	-23	1.09	0.45	-0.64	0	0	0	0	0	0	0	0
6/30/2024 14:13	11804	FRAN_T1	182	240	58	0.75	1.08	0.33	0.64	0.65	0	0	0	0	0	0
6/30/2024 14:13	20402	ASHF_T2	265	239	-26	0.69	0.56	-0.13	0	0	0	0	0	0	0	0
6/30/2024 14:13	11802	FRAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 14:13	20403	ASHF_T2	68	54	-14	0.53	0.15	-0.38	0.21	0.23	0	0	0	0	0	0
6/30/2024 14:14	61304	EARL_T1	0	0	0	0	0	0	0.37	0.33	1	1	0	600	600	0
6/30/2024 14:14	46206	DANV_T2	52	46	-6	0.67	0.54	-0.13	0	0	0	0	0	0	0	0
6/30/2024 14:14	16403	MOPO_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
6/30/2024 14:14	40902	JESH_T1	0	0	0	0	0	0	-2.06	-2.04	3	3	0	1800	1800	0
6/30/2024 14:14	40903	JESH_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 14:14	46203	DANV_T2	1	0	-1	0.1	0	-0.1	-2.16	-2.19	0	0	0	0	0	0
6/30/2024 14:14	40901	JESH_T1	2	3	1	1.15	0.9	-0.25	0	0	0	0	0	0	0	0
6/30/2024 14:14	46204	DANV_T2	4	6	2	0.4	0.24	-0.16	0	0	0	0	0	0	0	0
6/30/2024 14:15	16403	MOPO_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
6/30/2024 14:15	60102	COCA_T1	0	0	0	0	0	0	-0.02	0.01	2	2	0	1200	1200	0
6/30/2024 14:18	47103	MARL_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
6/30/2024 14:18	47402	PENS_T1	333	3	-330	1.12	0.75	-0.37	0	0	0	0	0	0	0	0
6/30/2024 14:18	12801	MICK_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	600	600	0
6/30/2024 14:18	47403	PENS_T1	4	1	-3	1.03	1.8	0.77	0	0	0	0	0	0	0	0
6/30/2024 14:18	47401	PENS_T1	653	0	-653	4.73	0	-4.73	0.95	1.43	0	0	0	0	0	0
6/30/2024 14:18	12803	MICK_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
6/30/2024 14:19	12302	LANA_T2	6	6	0	0.52	0.8	0.28	0	0	0	0	0	0	0	0
6/30/2024 14:19	52403	GRPA_T2	138	206	68	1.02	0.97	-0.05	0	0	0	0	0	0	0	0
6/30/2024 14:19	52402	GRPA_T2	59	79	20	0.57	0.6	0.03	-0.46	-0.45	0	0	0	0	0	0
6/30/2024 14:19	52404	GRPA_T2	10	13	3	0.31	0.45	0.14	0	0	0	0	0	0	0	0
6/30/2024 14:19	12301	LANA_T2	0	1	1	0	0	0	-1.92	-1.89	1	1	0	1200	1200	0
6/30/2024 14:19	12304	LANA_T2	137	120	-17	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
6/30/2024 14:19	12305	LANA_T2	20	17	-3	0.85	0.85	0	0	0	0	0	0	0	0	0
6/30/2024 14:19	52401	GRPA_T2	68	68	0	0.74	0.34	-0.4	0	0	0	0	0	0	0	0
6/30/2024 14:20	56501	ROCK_T2	3	8	5	1.07	0.57	-0.5	-1.97	-1.95	0	0	0	0	0	0
6/30/2024 14:20	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 14:20	56504	ROCK_T2	17	25	8	0.43	0.42	-0.01	0	0	0	0	0	0	0	0
6/30/2024 14:21	66503	SMAN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
6/30/2024 14:21	66505	SMAN_T2	139	181	42	0.37	0.5	0.13	0.52	0.33	4	4	0	2300	2300	0
6/30/2024 14:21	66504	SMAN_T2	7	4	-3	0.39	0.2	-0.19	0	0	0	0	0	0	0	0
6/30/2024 14:21	57103	SPHI_T2	0	0	0	0	0	0	-3.5	-3.55	1	1	0	600	600	0
6/30/2024 14:21	57104	SPHI_T2	1	1	0	2.6	2.1	-0.5	0	0	0	0	0	0	0	0
6/30/2024 14:21	57106	SPHI_T2	3	3	0	0.13	0.53	0.4	0	0	0	0	0	0	0	0
6/30/2024 14:22	13102	NHAM_T2	0	15	15	0	0.14	0.14	0	0	0	0	0	0	0	0
6/30/2024 14:22	60301	TWVA_T2	0	5	5	0	0.2	0.2	-1.17	-1.23	2	2	0	1800	1800	0
6/30/2024 14:22	13105	NHAM_T2	45	125	80	0.9	0.77	-0.13	-1.52	-1.51	1	1	0	1200	1200	0
6/30/2024 14:22	13103	NHAM_T2	14	28	14	1.71	0.83	-0.88	0	0	0	0	0	0	0	0
6/30/2024 14:23	66701	STRA_T1	7	14	7	0.39	0.4	0.01	0	0	0	0	0	0	0	0
6/30/2024 14:23	66505	SMAN_T2	139	181	42	0.37	0.5	0.13	0.52	0.33	4	4	0	2300	2300	0
6/30/2024 14:23	66503	SMAN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
6/30/2024 14:23	56501	ROCK_T2	3	8	5	1.07	0.57	-0.5	0	0	0	0	0	0	0	0
6/30/2024 14:23	56504	ROCK_T2	17	25	8	0.43	0.42	-0.01	-0.02	0	0	0	0	0	0	0
6/30/2024 14:23	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 14:23	66504	SMAN_T2	7	4	-3	0.39	0.2	-0.19	0	0	0	0	0	0	0	0
6/30/2024 14:23	66703	STRA_T1	17	22	5	0.6	0.26	-0.34	-0.23	-0.22	0	0	0	0	0	0
6/30/2024 14:24	56801	BENV_T1	7	12	5	0.49	0.28	-0.21	-0.47	-0.45	2	2	0	1200	1200	0
6/30/2024 14:24	56501	ROCK_T2	3	8	5	1.07	0.57	-0.5	-1.95	-1.94	0	0	0	0	0	0
6/30/2024 14:24	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 14:24	67201	TEHI_T1	0	0	0	0	0	0	0.2	0.21	1	1	0	600	600	0
6/30/2024 14:24	67602	WARW_T2	0	0	0	0	0	0	0.02	0.01	2	2	0	1500	1500	0
6/30/2024 14:24	56803	BENV_T1	23	20	-3	1.08	1.21	0.13	0	0	0	0	0	0	0	0
6/30/2024 14:24	56504	ROCK_T2	17	25	8	0.43	0.42	-0.01	0	0	0	0	0	0	0	0
6/30/2024 14:25	66703	STRA_T1	17	22	5	0.6	0.26	-0.34	-0.23	-0.22	0	0	0	0	0	0
6/30/2024 14:25	66701	STRA_T1	7	14	7	0.39	0.4	0.01	0	0	0	0	0	0	0	0
6/30/2024 14:25	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 14:25	56504	ROCK_T2	17	25	8	0.43	0.42	-0.01	-0.02	0	0	0	0	0	0	0
6/30/2024 14:25	67602	WARW_T2	0	0	0	0	0	0	0.02	-0.01	2	2	0	1500	1500	0
6/30/2024 14:25	56501	ROCK_T2	3	8	5	1.07	0.57	-0.5	0	0	0	0	0	0	0	0
6/30/2024 14:26	14204	EALL_T2	5	6	1	0.36	0.75	0.39	-0.7	-0.7	0	0	0	0	0	0
6/30/2024 14:26	14205	EALL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 14:28	66203	SISP_T2	1	1	0	3.6	1.1	-2.5	-1.34	-1.34	2	2	0	1800	1800	0
6/30/2024 14:28	66202	SISP_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/30/2024 14:28	56801	BENV_T1	7	12	5	0.49	0.28	-0.21	-0.47	-0.45	2	2	0	1200	1200	0
6/30/2024 14:28	56803	BENV_T1	23	20	-3	1.08	1.21	0.13	0	0	0	0	0	0	0	0
6/30/2024 14:30	22903	HARW_T1	22	20	-2	1.16	0.1	-1.06	0	0	0	0	0	0	0	0
6/30/2024 14:30	22905	HARW_T1	16	16	0	0.99	0.94	-0.05	0	0	0	0	0	0	0	0
6/30/2024 14:30	22901	HARW_T1	54	57	3	0.71	0.48	-0.23	-0.41	-0.44	1	1	0	1200	1200	0
6/30/2024 14:31	22903	HARW_T1	22	20	-2	1.16	0.1	-1.06	0	0	0	0	0	0	0	0
6/30/2024 14:31	44905	SCOT_T1	26	42	16	0.58	0.63	0.05	0	0	0	0	0	0	0	0
6/30/2024 14:31	44903	SCOT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 14:31	22905	HARW_T1	16	16	0	0.99	0.94	-0.05	0	0	0	0	0	0	0	0
6/30/2024 14:31	22901	HARW_T1	54	57	3	0.71	0.48	-0.23	-0.41	-0.44	1	1	0	1200	1200	0
6/30/2024 14:32	14401	SSLA_T1	7	4	-3	0.64	0.6	-0.04	0	0	0	0	0	0	0	0
6/30/2024 14:32	14403	SSLA_T1	12	20	8	0.61	1.19	0.58	-0.07	-0.05	3	3	0	1800	1800	0
6/30/2024 14:32	14404	SSLA_T1	1	2	1	2.7	1.4	-1.3	0	0	0	0	0	0	0	0
6/30/2024 14:32	14402	SSLA_T1	4	0	-4	0.35	0	-0.35	0	0	0	0	0	0	0	0
6/30/2024 14:36	46301	ROHR_T1	0	3	3	0	0.25	0.25	-0.45	-0.44	0	0	0	0	0	0
6/30/2024 14:36	47403	PENS_T1	1	0	-1	1.8	0	-1.8	0	0	0	0	0	0	0	0
6/30/2024 14:36	47401	PENS_T1	125	114	-11	1.45	1.28	-0.17	1.39	1.4	0	0	0	0	0	0
6/30/2024 14:36	47402	PENS_T1	2	4	2	0.9	0	-0.9	0	0	0	0	0	0	0	0
6/30/2024 14:36	46302	ROHR_T1	4	6	2	0.33	0.56	0.23	0	0	0	0	0	0	0	0
6/30/2024 14:41	66203	SISP_T2	1	1	0	1.1	0	-1.1	-1.34	-1.31	2	2	0	1800	1800	0
6/30/2024 14:41	60102	COCA_T1	0	0	0	0	0	0	0.04	0.05	2	2	0	1200	1200	0
6/30/2024 14:42	54506	ENOL_T2	0	0	0	0	0	0	0.11	0.13	0	1	1	0	600	600
6/30/2024 14:42	54503	ENOL_T2	1	5	4	0.4	0.53	0.13	0	0	0	0	0	0	0	0
6/30/2024 14:42	54504	ENOL_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 14:43	10903	COOP_T2	0	1	1	0	0	0	0.08	0.09	1	1	0	600	600	0
6/30/2024 14:44	63501	HEID_TBK1-2	0	0	0	0	0	0	0.39	0.32	1	1	0	900	900	0
6/30/2024 14:48	11104	EGYP_T1	27	35	8	1.02	1.28	0.26	0.4	0.43	1	1	0	900	900	0
6/30/2024 14:48	11102	EGYP_T1	47	47	0	0.9	0.86	-0.04	0	0	0	0	0	0	0	0
6/30/2024 14:48	11101	EGYP_T1	4	4	0	1.65	0.88	-0.77	0	0	0	0	0	0	0	0
6/30/2024 14:48	43402	BENT_T1	4	2	-2	0.73	0.55	-0.18	-0.73	-0.73	1	1	0	900	900	0
6/30/2024 14:50	11101	EGYP_T1	4	4	0	1.65	0.88	-0.77	0	0	0	0	0	0	0	0
6/30/2024 14:50	11104	EGYP_T1	27	35	8	1.02	1.28	0.26	0.81	0.86	2	2	0	1800	1800	0
6/30/2024 14:50	11102	EGYP_T1	47	47	0	0.9	0.86	-0.04	0	0	0	0	0	0	0	0
6/30/2024 14:50	43402	BENT_T1	4	2	-2	0.73	0.55	-0.18	-0.73	-0.73	1	1	0	900	900	0
6/30/2024 14:51	65603	QVIL_T2	1	0	-1	0.9	0	-0.9	-0.94	-0.93	0	0	0	0	0	0
6/30/2024 14:51	65601	QVIL_T2	4	4	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/30/2024 14:51	43402	BENT_T1	4	2	-2	0.73	0.55	-0.18	-0.73	-0.73	1	1	0	900	900	0
6/30/2024 14:57	66701	STRA_T1	7	9	2	0.67	0.36	-0.31	0.72	0.75	1	1	0	600	600	0
6/30/2024 14:57	66703	STRA_T1	18	26	8	0.28	0.3	0.02	0	0	0	0	0	0	0	0
6/30/2024 14:57	61703	ELIZ_T1	0	0	0	0	0	0	-2.12	-2.12	2	2	0	2100	2100	0
6/30/2024 14:57	61701	ELIZ_T1	1	1	0	0.9	1.1	0.2	0.85	0.86	0	0	0	0	0	0
6/30/2024 14:58	61701	ELIZ_T1	1	1	0	0.9	1.1	0.2	0.85	0.86	0	0	0	0	0	0
6/30/2024 14:59	51802	EBEN_T2	4	11	7	0.2	0.32	0.12	-0.1	-0.02	1	1	0	900	900	0
6/30/2024 15:00	61701	ELIZ_T1	1	1	0	0.5	1.1	0.6	0.85	0.86	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/30/2024 15:00	45802	HEGI_T2	39	48	9	0.62	1.14	0.52	0.35	0.42	0	0	0	0	0	0
6/30/2024 15:01	46205	DANV_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
6/30/2024 15:01	46203	DANV_T2	0	0	0	0	0	0	-4.5	-4.52	0	0	0	0	0	0
6/30/2024 15:01	46204	DANV_T2	5	4	-1	0.76	0.1	-0.66	0	0	0	0	0	0	0	0
6/30/2024 15:01	46206	DANV_T2	52	55	3	0.68	0.84	0.16	0	0	0	0	0	0	0	0
6/30/2024 15:04	67703	WERN_T2	1	0	-1	0.8	0	-0.8	-0.01	-0.01	1	1	0	900	900	0
6/30/2024 15:06	64101	REFR_T1	16	28	12	2.19	2.11	-0.08	0.22	0.24	0	0	0	0	0	0
6/30/2024 15:06	11101	EGYP_T1	4	5	1	0.88	0.68	-0.2	0	0	0	0	0	0	0	0
6/30/2024 15:06	11104	EGYP_T1	35	6	-29	0.91	0.4	-0.51	-0.49	-0.53	1	1	0	900	900	0
6/30/2024 15:06	67703	WERN_T2	1	0	-1	0.8	0	-0.8	-0.01	-0.01	1	1	0	900	900	0
6/30/2024 15:06	11102	EGYP_T1	41	35	-6	0.86	0.86	0	0	0	0	0	0	0	0	0
6/30/2024 15:07	67703	WERN_T2	1	0	-1	0.8	0	-0.8	-0.01	-0.01	1	1	0	900	900	0
6/30/2024 15:07	64101	REFR_T1	16	28	12	2.19	2.11	-0.08	0.22	0.24	0	0	0	0	0	0
6/30/2024 15:08	66504	SMAN_T2	5	7	2	0.38	0.28	-0.1	-0.13	-0.29	0	0	0	0	0	0
6/30/2024 15:08	66505	SMAN_T2	54	324	270	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
6/30/2024 15:08	66503	SMAN_T2	3	1	-2	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/30/2024 15:09	54001	SDLE_T1	195	197	2	1.45	1.54	0.09	0	0	2	2	0	1200	1200	0
6/30/2024 15:09	64101	REFR_T1	16	28	12	2.19	2.11	-0.08	0.22	0.24	0	0	0	0	0	0
6/30/2024 15:09	60801	BUCK_T1	0	0	0	0	0	0	-0.34	-0.31	1	1	0	600	600	0
6/30/2024 15:10	67605	WARW_T1	0	1	1	0	0	0	-0.83	-0.92	0	0	0	0	0	0
6/30/2024 15:12	60801	BUCK_T1	0	0	0	0	0	0	-0.34	-0.31	1	1	0	600	600	0
6/30/2024 15:14	60801	BUCK_T1	0	0	0	0	0	0	-0.34	-0.31	1	1	0	600	600	0
6/30/2024 15:16	52404	GRPA_T2	12	3	-9	0.45	0	-0.45	0	0	0	0	0	0	0	0
6/30/2024 15:16	52401	GRPA_T2	93	68	-25	0.9	0.49	-0.41	0	0	0	0	0	0	0	0
6/30/2024 15:16	52403	GRPA_T2	177	115	-62	1.41	1.14	-0.27	-0.33	-0.46	0	0	0	0	0	0
6/30/2024 15:16	52402	GRPA_T2	100	85	-15	0.95	0.76	-0.19	0	0	0	0	0	0	0	0
6/30/2024 15:17	52403	GRPA_T2	177	115	-62	1.41	1.14	-0.27	-0.33	-0.46	0	0	0	0	0	0
6/30/2024 15:17	52402	GRPA_T2	100	85	-15	0.95	0.76	-0.19	0	0	0	0	0	0	0	0
6/30/2024 15:17	52401	GRPA_T2	93	68	-25	0.9	0.49	-0.41	0	0	0	0	0	0	0	0
6/30/2024 15:17	52404	GRPA_T2	12	3	-9	0.45	0	-0.45	-0.4	-0.39	0	0	0	0	0	0
6/30/2024 15:18	47101	MARL_T1	148	161	13	1.44	1.42	-0.02	-0.65	-0.59	1	1	0	600	600	0
6/30/2024 15:18	47104	MARL_T1	0	9	9	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 15:19	54001	SDLE_T1	194	197	3	1.61	1.08	-0.53	0	0	1	1	0	600	600	0
6/30/2024 15:19	47104	MARL_T1	0	9	9	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 15:19	58704	ROSE_T2	1	1	0	8.2	3.8	-4.4	0	0	0	0	0	0	0	0
6/30/2024 15:19	58706	ROSE_T2	5	6	1	1.02	2.8	1.78	0	0	0	0	0	0	0	0
6/30/2024 15:19	58702	ROSE_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 15:19	58701	ROSE_T2	6	13	7	0.32	0.68	0.36	-1.43	-1.42	1	1	0	600	600	0
6/30/2024 15:19	58705	ROSE_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/30/2024 15:19	47101	MARL_T1	148	161	13	1.44	1.42	-0.02	-0.65	-0.59	1	1	0	600	600	0
6/30/2024 15:20	58701	ROSE_T2	6	13	7	0.32	0.68	0.36	-2.86	-2.83	2	2	0	1200	1200	0
6/30/2024 15:20	56504	ROCK_T2	41	96	55	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
6/30/2024 15:20	58706	ROSE_T2	5	6	1	1.02	2.8	1.78	0	0	0	0	0	0	0	0
6/30/2024 15:20	58704	ROSE_T2	1	1	0	8.2	3.8	-4.4	0	0	0	0	0	0	0	0
6/30/2024 15:20	58702	ROSE_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 15:20	56501	ROCK_T2	2	19	17	0.45	0.33	-0.12	-1.9	-1.83	0	0	0	0	0	0
6/30/2024 15:20	56503	ROCK_T2	2	3	1	0.35	0.8	0.45	0	0	0	0	0	0	0	0
6/30/2024 15:20	58705	ROSE_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/30/2024 15:21	58705	ROSE_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/30/2024 15:21	56504	ROCK_T2	41	96	55	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
6/30/2024 15:21	58706	ROSE_T2	5	6	1	1.02	2.8	1.78	0	0	0	0	0	0	0	0
6/30/2024 15:21	58704	ROSE_T2	1	1	0	8.2	3.8	-4.4	0	0	0	0	0	0	0	0
6/30/2024 15:21	47802	MOCA_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
6/30/2024 15:21	56503	ROCK_T2	2	3	1	0.35	0.8	0.45	0	0	0	0	0	0	0	0
6/30/2024 15:21	56501	ROCK_T2	2	19	17	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
6/30/2024 15:21	58701	ROSE_T2	6	13	7	0.32	0.68	0.36	-1.43	-1.42	1	1	0	600	600	0
6/30/2024 15:21	58702	ROSE_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 15:24	56504	ROCK_T2	41	96	55	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
6/30/2024 15:24	56503	ROCK_T2	2	3	1	0.35	0.8	0.45	0	0	0	0	0	0	0	0
6/30/2024 15:24	56501	ROCK_T2	2	19	17	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
6/30/2024 15:24	58706	ROSE_T2	5	6	1	1.02	2.8	1.78	0	0	0	0	0	0	0	0
6/30/2024 15:24	58702	ROSE_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 15:24	58705	ROSE_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
6/30/2024 15:24	58701	ROSE_T2	6	13	7	0.32	0.68	0.36	-1.42	-1.4	1	1	0	600	600	0
6/30/2024 15:24	58704	ROSE_T2	1	1	0	8.2	3.8	-4.4	0	0	0	0	0	0	0	0
6/30/2024 15:27	56501	ROCK_T2	2	19	17	0.45	0.33	-0.12	-1.83	-1.78	0	0	0	0	0	0
6/30/2024 15:27	56504	ROCK_T2	41	96	55	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
6/30/2024 15:27	56503	ROCK_T2	2	3	1	0.35	0.8	0.45	0	0	0	0	0	0	0	0
6/30/2024 15:29	22903	HARW_T1	1	9	8	0.2	0.28	0.08	0	0	0	0	0	0	0	0
6/30/2024 15:29	22905	HARW_T1	23	55	32	0.51	0.44	-0.07	0	0	0	0	0	0	0	0
6/30/2024 15:29	22901	HARW_T1	47	57	10	0.88	0.38	-0.5	-0.5	-0.45	1	1	0	1200	1200	0
6/30/2024 15:30	51401	LYKE_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
6/30/2024 15:31	51401	LYKE_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
6/30/2024 15:33	13202	PALM_T2	4	4	0	0.78	1.03	0.25	-2.54	-2.51	4	4	0	3600	3600	0
6/30/2024 15:34	12302	LANA_T2	25	3	-22	0.45	0.3	-0.15	-1.5	-1.48	3	3	0	2700	2700	0
6/30/2024 15:34	12305	LANA_T2	29	16	-13	1.04	1.56	0.52	0	0	0	0	0	0	0	0
6/30/2024 15:34	12304	LANA_T2	234	144	-90	1.16	0.55	-0.61	0	0	0	0	0	0	0	0
6/30/2024 15:34	12301	LANA_T2	3	2	-1	1.63	0.5	-1.13	0	0	0	0	0	0	0	0
6/30/2024 15:37	20401	ASHF_T2	4	7	3	0.83	0.47	-0.36	0	0	0	0	0	0	0	0
6/30/2024 15:37	20403	ASHF_T2	0	1	1	0	0	0	0.12	0.14	0	0	0	0	0	0
6/30/2024 15:37	20402	ASHF_T2	13	20	7	0.44	0.13	-0.31	0	0	0	0	0	0	0	0
6/30/2024 15:38	44301	BEAV_T2	3	6	3	0.73	0.1	-0.63	-0.24	-0.24	1	1	0	600	600	0
6/30/2024 15:38	44302	BEAV_T2	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
6/30/2024 15:39	66703	STRA_T1	46	62	16	0.52	0.26	-0.26	0	0	0	0	0	0	0	0
6/30/2024 15:39	66701	STRA_T1	12	20	8	1.18	0.89	-0.29	0.77	0.78	1	1	0	600	600	0
6/30/2024 15:39	55105	WERT_T1	11	12	1	0.55	0.24	-0.31	0	0	0	0	0	0	0	0
6/30/2024 15:39	55101	WERT_T1	6	9	3	0.32	1.4	1.08	-2.3	-2.43	4	4	0	3300	3300	0
6/30/2024 15:39	55103	WERT_T1	6	1	-5	0.53	0.8	0.27	0	0	0	0	0	0	0	0
6/30/2024 15:40	44301	BEAV_T2	3	6	3	0.73	0.1	-0.63	-0.24	-0.24	1	1	0	600	600	0
6/30/2024 15:40	44302	BEAV_T2	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
6/30/2024 15:41	56504	ROCK_T2	75	104	29	0.5	0.58	0.08	0	0	0	0	0	0	0	0
6/30/2024 15:41	56503	ROCK_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/30/2024 15:41	56501	ROCK_T2	16	18	2	0.44	0.38	-0.06	-1.78	-1.81	0	0	0	0	0	0
6/30/2024 15:43	44301	BEAV_T2	3	6	3	0.73	0.1	-0.63	-0.24	-0.24	1	1	0	600	600	0
6/30/2024 15:43	44302	BEAV_T2	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
6/30/2024 15:46	13503	MCMI_T2	3	3	0	0.3	0.3	0	-0.52	-0.52	0	0	0	0	0	0
6/30/2024 15:46	64202	KINZ_T1	7	2	-5	0.27	0	-0.27	0	0	0	0	0	0	0	0
6/30/2024 15:46	64201	KINZ_T1	0	1	1	0	0	0	-0.41	-0.46	4	4	0	2100	2100	0
6/30/2024 15:46	64204	KINZ_T1	1	1	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
6/30/2024 15:52	67505	WEWI_T1	1	1	0	0.4	0.4	0	0.45	0.45	1	1	0	900	900	0
6/30/2024 15:52	43301	WATS_T2	2	4	2	0.3	0.35	0.05	0	0	0	0	0	0	0	0
6/30/2024 15:52	67502	WEWI_T2	40	75	35	0.76	0.73	-0.03	0	0	0	0	0	0	0	0
6/30/2024 15:52	67501	WEWI_T1	13	14	1	1.4	1.31	-0.09	0	0	0	0	0	0	0	0
6/30/2024 15:52	67503	WEWI_T2	260	285	25	0.97	0.77	-0.2	-0.44	-0.43	1	1	0	600	600	0
6/30/2024 15:52	43304	WATS_T2	21	35	14	0.5	0.51	0.01	-0.51	-0.49	0	0	0	0	0	0
6/30/2024 15:54	65602	QVIL_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/30/2024 15:54	65603	QVIL_T2	0	0	0	0	0	0	-0.88	-0.86	0	0	0	0	0	0
6/30/2024 15:54	65601	QVIL_T2	38	82	44	0.44	0.39	-0.05	0	0	0	0	0	0	0	0
6/30/2024 15:54	65604	QVIL_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
6/30/2024 15:55	43301	WATS_T2	2	4	2	0.3	0.35	0.05	0	0	0	0	0	0	0	0
6/30/2024 15:55	67505	WEWI_T1	1	1	0	0.4	0.4	0	0.45	0.45	1	1	0	900	900	0
6/30/2024 15:55	67501	WEWI_T1	13	14	1	1.4	1.31	-0.09	0	0	0	0	0	0	0	0
6/30/2024 15:55	43304	WATS_T2	21	35	14	0.5	0.51	0.01	-1.52	-1.48	0	0	0	0	0	0
6/30/2024 15:57	61801	EELI_T2	4	6	2	0.6	0.67	0.07	0	0	0	0	0	0	0	0
6/30/2024 15:57	61802	EELI_T2	8	8	0	1.23	1.01	-0.22	0.24	0.24	0	0	0	0	0	0
6/30/2024 15:58	61801	EELI_T2	4	6	2	0.6	0.67	0.07	-0.12	-0.16	3	3	0	1800	1800	0
6/30/2024 15:58	61802	EELI_T2	8	8	0	1.23	1.01	-0.22	0	0	0	0	0	0	0	0
6/30/2024 16:03	45802	HEGI_T2	34	46	12	0.59	0.92	0.33	0.31	0.18	0	0	0	0	0	0
6/30/2024 16:06	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/30/2024 16:07	61102	BERK_T5	0	0	0	0	0	0	-0.62	-0.54	2	2	0	1200	1200	0
6/30/2024 16:08	61102	BERK_T5	0	0	0	0	0	0	-0.62	-0.54	2	2	0	1200	1200	0
6/30/2024 16:08	67605	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/30/2024 16:08	67604	WARW_T1	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
6/30/2024 16:09	45302	WBER_T2	7	35	28	0.26	0.4	0.14	1.5	1.49	0	0	0	0	0	0
6/30/2024 16:09	45303	WBER_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/30/2024 16:10	61102	BERK_T5	0	0	0	0	0	0	-0.62	-0.54	2	2	0	1200	1200	0
6/30/2024 16:11	45302	WBER_T2	7	35	28	0.26	0.4	0.14	1.5	1.49	0	0	0	0	0	0
6/30/2024 16:11	45303	WBER_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
6/30/2024 16:15	64201	KINZ_T1	0	0	0	0	0	0	-0.53	-0.51	4	4	0	2100	2100	0
6/30/2024 16:15	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/30/2024 16:15	64204	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
6/30/2024 16:19	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/30/2024 16:19	64204	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
6/30/2024 16:19	64203	KINZ_T1	0	0	0	0	0	0	-1.46	-1.52	3	3	0	2100	2100	0
6/30/2024 16:20	66103	REAM_T2	0	0	0	0	0	0	0.27	0.29	1	1	0	1200	1200	0
6/30/2024 16:21	56504	ROCK_T2	92	63	-29	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
6/30/2024 16:21	56503	ROCK_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
6/30/2024 16:21	56501	ROCK_T2	5	15	10	0.3	0.43	0.13	0	0	0	0	0	0	0	0
6/30/2024 16:23	56504	ROCK_T2	92	63	-29	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
6/30/2024 16:23	56503	ROCK_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
6/30/2024 16:23	56501	ROCK_T2	5	15	10	0.3	0.43	0.13	-1.84	-1.84	0	0	0	0	0	0
6/30/2024 16:25	67602	WARW_T2	0	3	3	0	0	0	0.47	0.46	2	2	0	1500	1500	0
6/30/2024 16:26	61702	ELIZ_T2	12	8	-4	0.59	0.6	0.01	-1.06	-1.06	2	2	0	1500	1500	0
6/30/2024 16:26	61704	ELIZ_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 16:27	61701	ELIZ_T1	1	1	0	0.9	0.9	0	0.84	0.85	0	0	0	0	0	0
6/30/2024 16:27	24701	FLND_T2	14	19	5	2.06	1.5	-0.56	0.54	0.54	0	0	0	0	0	0
6/30/2024 16:27	24702	FLND_T2	1	1	0	0.2	0.4	0.2	-0.51	-0.48	2	2	0	2400	2400	0
6/30/2024 16:27	24703	FLND_T2	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
6/30/2024 16:28	24702	FLND_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
6/30/2024 16:28	24701	FLND_T2	14	19	5	2.06	1.5	-0.56	0.54	0.54	0	0	0	0	0	0
6/30/2024 16:28	24703	FLND_T2	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
6/30/2024 16:29	21504	CEAV_T1	4	7	3	0.7	0.33	-0.37	0.17	0.14	1	1	0	1200	1200	0
6/30/2024 16:31	43301	WATS_T2	3	3	0	0.37	0	-0.37	0.06	0.05	1	1	0	900	900	0
6/30/2024 16:31	43304	WATS_T2	92	14	-78	0.78	0.4	-0.38	0	0	0	0	0	0	0	0
6/30/2024 16:31	61505	EPET_T1	0	1	1	0	0	0	0.68	0.7	0	0	0	0	0	0
6/30/2024 16:32	43304	WATS_T2	92	14	-78	0.78	0.4	-0.38	0	0	0	0	0	0	0	0
6/30/2024 16:32	43301	WATS_T2	3	3	0	0.37	0	-0.37	0.11	0.11	2	2	0	1800	1800	0
6/30/2024 16:33	43301	WATS_T2	3	3	0	0.37	0	-0.37	0.06	0.05	1	1	0	900	900	0
6/30/2024 16:33	54602	SUMM_T2	10	23	13	0.51	0.72	0.21	0	0	0	0	0	0	0	0
6/30/2024 16:33	43304	WATS_T2	92	14	-78	0.78	0.4	-0.38	0	0	0	0	0	0	0	0
6/30/2024 16:33	46101	MACI_T2	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0	0
6/30/2024 16:33	54601	SUMM_T2	5	12	7	0.76	0.8	0.04	0	0	3	3	0	3000	3000	0
6/30/2024 16:36	45303	WBER_T2	1	1	0	0.2	0.2	0	-0.88	-0.88	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/30/2024 16:36	45302	WBER_T2	35	37	2	0.61	0.61	0	0	0	0	0	0	0	0	0
6/30/2024 16:39	45302	WBER_T2	35	37	2	0.61	0.61	0	0	0	0	0	0	0	0	0
6/30/2024 16:39	45303	WBER_T2	1	1	0	0.2	0.2	0	-0.88	-0.88	0	0	0	0	0	0
6/30/2024 16:40	20401	ASHF_T2	6	7	1	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
6/30/2024 16:40	45302	WBER_T2	35	37	2	0.61	0.61	0	0	0	0	0	0	0	0	0
6/30/2024 16:40	20403	ASHF_T2	20	36	16	0.57	0.64	0.07	0.2	0.21	0	0	0	0	0	0
6/30/2024 16:40	45303	WBER_T2	1	1	0	0.2	0.2	0	-0.88	-0.88	0	0	0	0	0	0
6/30/2024 16:40	20402	ASHF_T2	81	141	60	0.54	0.64	0.1	0	0	0	0	0	0	0	0
6/30/2024 16:42	63802	HEMP_T1	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
6/30/2024 16:42	63804	HEMP_T1	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
6/30/2024 16:42	63801	HEMP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
6/30/2024 16:44	61702	ELIZ_T2	7	9	2	0.37	0.4	0.03	-1.06	-1.06	2	2	0	1500	1500	0
6/30/2024 16:44	61704	ELIZ_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/30/2024 16:46	53902	HALI_T2	2	3	1	1.95	2.8	0.85	-0.86	-0.85	0	0	0	0	0	0
6/30/2024 16:46	53901	HALI_T2	5	5	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/30/2024 16:47	53902	HALI_T2	2	3	1	1.95	2.8	0.85	-0.86	-0.85	0	0	0	0	0	0
6/30/2024 16:47	53901	HALI_T2	5	5	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/30/2024 16:48	53902	HALI_T2	2	3	1	1.95	2.8	0.85	-0.43	-0.43	0	0	0	0	0	0
6/30/2024 16:48	53901	HALI_T2	5	5	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/30/2024 16:50	42201	SHEN_T2	0	0	0	0	0	0	0.52	0.51	1	1	0	600	600	0
6/30/2024 16:51	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/30/2024 16:52	45303	WBER_T2	1	1	0	0.3	0	-0.3	-0.88	-0.88	0	0	0	0	0	0
6/30/2024 16:52	58401	MORO_T1	6	11	5	0.52	0.48	-0.04	0	0	0	0	0	0	0	0
6/30/2024 16:52	45302	WBER_T2	36	40	4	0.75	0.64	-0.11	0	0	0	0	0	0	0	0
6/30/2024 16:52	58402	MORO_T1	0	1	1	0	0	0	-1.81	-1.78	4	4	0	2850	2850	0
6/30/2024 16:53	65601	QVIL_T2	40	2	-38	0.5	0	-0.5	0	0	0	0	0	0	0	0
6/30/2024 16:53	67602	WARW_T2	3	0	-3	0.27	0	-0.27	0.46	0.45	2	2	0	1500	1500	0
6/30/2024 16:53	64101	REFR_T1	3	12	9	0.3	0.59	0.29	0.1	0.1	0	0	0	0	0	0
6/30/2024 16:53	65604	QVIL_T2	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/30/2024 16:53	65602	QVIL_T2	1	0	-1	0.2	0	-0.2	1.2	1.14	0	0	0	0	0	0
6/30/2024 16:54	49803	UNIV_T1	0	26	26	0	0.26	0.26	-0.1	-0.1	0	0	0	0	0	0
6/30/2024 16:54	49804	UNIV_T1	6	5	-1	0.32	1.13	0.81	0	0	0	0	0	0	0	0
6/30/2024 16:55	45303	WBER_T2	1	1	0	0.3	0	-0.3	-0.88	-0.88	0	0	0	0	0	0
6/30/2024 16:55	45302	WBER_T2	36	40	4	0.75	0.64	-0.11	0	0	0	0	0	0	0	0
6/30/2024 16:55	67602	WARW_T2	3	0	-3	0.27	0	-0.27	0.46	0.45	2	2	0	1500	1500	0
6/30/2024 16:56	45303	WBER_T2	1	1	0	0.3	0	-0.3	-0.88	-0.88	0	0	0	0	0	0
6/30/2024 16:56	45302	WBER_T2	36	40	4	0.75	0.64	-0.11	0	0	0	0	0	0	0	0
6/30/2024 16:57	53902	HALI_T2	2	3	1	1.95	2.8	0.85	-0.43	-0.43	0	0	0	0	0	0
6/30/2024 16:57	53901	HALI_T2	5	5	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/30/2024 16:58	53902	HALI_T2	2	3	1	1.95	2.8	0.85	-0.43	-0.43	0	0	0	0	0	0
6/30/2024 16:58	53901	HALI_T2	5	5	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/30/2024 17:01	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/30/2024 17:01	63804	HEMP_T1	1	1	0	6.5	6.4	-0.1	0.56	0.66	0	0	0	0	0	0
6/30/2024 17:02	53901	HALI_T2	5	2	-3	0.36	0	-0.36	0	0	0	0	0	0	0	0
6/30/2024 17:02	53902	HALI_T2	2	2	0	1.45	1.45	0	-1.28	-1.28	0	0	0	0	0	0
6/30/2024 17:03	58001	WCAR_T1	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
6/30/2024 17:03	55002	NEWP_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/30/2024 17:03	55001	NEWP_T1	49	52	3	0.97	0.99	0.02	-0.12	-0.12	0	0	0	0	0	0
6/30/2024 17:06	64101	REFR_T1	9	15	6	0.59	0.61	0.02	0.1	0.09	0	0	0	0	0	0
6/30/2024 17:13	10901	COOP_T2	0	0	0	0	0	0	-0.07	-0.08	1	1	0	1200	1200	0
6/30/2024 17:17	42902	MIDD_T2	53	53	0	3.17	3.14	-0.03	-0.09	-0.09	0	0	0	0	0	0
6/30/2024 17:17	42903	MIDD_T2	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
6/30/2024 17:19	42903	MIDD_T2	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
6/30/2024 17:19	58701	ROSE_T2	9	9	0	0.37	0.5	0.13	0	0	0	0	0	0	0	0
6/30/2024 17:19	52403	GRPA_T2	129	194	65	1.91	1.49	-0.42	-0.37	-0.34	0	0	0	0	0	0
6/30/2024 17:19	12606	MACA_T1	46	53	7	1.48	1.22	-0.26	0	0	0	0	0	0	0	0
6/30/2024 17:19	52404	GRPA_T2	18	28	10	0.48	0.48	0	0	0	0	0	0	0	0	0
6/30/2024 17:19	48302	ORWI_T2	25	21	-4	0.52	0.56	0.04	0	0	0	0	0	0	0	0
6/30/2024 17:19	52402	GRPA_T2	98	101	3	1.17	1.36	0.19	0	0	0	0	0	0	0	0
6/30/2024 17:19	12602	MACA_T1	4	5	1	0.38	0.6	0.22	0	0	0	0	0	0	0	0
6/30/2024 17:19	48303	ORWI_T2	0	0	0	0	0	0	0.96	1.01	0	0	0	0	0	0
6/30/2024 17:19	12601	MACA_T1	0	0	0	0	0	0	1.46	1.48	0	0	0	0	0	0
6/30/2024 17:19	58706	ROSE_T2	8	8	0	0.84	1.65	0.81	0.36	0.35	1	1	0	600	600	0
6/30/2024 17:19	58705	ROSE_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/30/2024 17:19	52401	GRPA_T2	87	87	0	0.94	0.77	-0.17	0	0	0	0	0	0	0	0
6/30/2024 17:19	42902	MIDD_T2	53	53	0	3.17	3.14	-0.03	-0.09	-0.09	0	0	0	0	0	0
6/30/2024 17:20	42903	MIDD_T2	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
6/30/2024 17:20	42902	MIDD_T2	53	53	0	3.17	3.14	-0.03	-0.09	-0.09	0	0	0	0	0	0
6/30/2024 17:21	42903	MIDD_T2	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
6/30/2024 17:21	42902	MIDD_T2	53	53	0	3.17	3.14	-0.03	-0.19	-0.21	0	0	0	0	0	0
6/30/2024 17:29	61801	EELI_T2	4	11	7	0.63	0.99	0.36	0	0	0	0	0	0	0	0
6/30/2024 17:29	61802	EELI_T2	9	9	0	1.41	1.61	0.2	0	0	0	0	0	0	0	0
6/30/2024 17:29	44902	SCOT_T2	0	133	133	0	0.6	0.6	-1.64	-1.65	0	0	0	0	0	0
6/30/2024 17:33	42902	MIDD_T2	53	53	0	3.47	3.05	-0.42	-0.09	-0.1	0	0	0	0	0	0
6/30/2024 17:33	42903	MIDD_T2	2	2	0	1.05	0.8	-0.25	0	0	0	0	0	0	0	0
6/30/2024 17:41	61702	ELIZ_T2	17	27	10	1.16	0.4	-0.76	-1.08	-1.09	2	2	0	1500	1500	0
6/30/2024 17:41	61704	ELIZ_T2	2	4	2	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
6/30/2024 17:42	61103	BERK_T5	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
6/30/2024 17:42	56801	BENV_T1	13	18	5	0.47	0.5	0.03	-1.52	-1.46	6	6	0	3600	3600	0
6/30/2024 17:42	56803	BENV_T1	20	12	-8	1.06	1.08	0.02	0	0	0	0	0	0	0	0
6/30/2024 17:43	58803	COCO_T1	9	17	8	0.39	0.35	-0.04	-0.3	-0.42	1	1	0	600	600	0
6/30/2024 17:46	44902	SCOT_T2	133	138	5	0.6	0.67	0.07	-1.65	-1.66	0	0	0	0	0	0
6/30/2024 17:59	56504	ROCK_T2	114	66	-48	0.78	0.74	-0.04	0	0	0	0	0	0	0	0
6/30/2024 17:59	56503	ROCK_T2	5	1	-4	0.36	0.6	0.24	0	0	0	0	0	0	0	0
6/30/2024 17:59	56501	ROCK_T2	15	5	-10	0.57	1.2	0.63	-1.84	-1.85	0	0	0	0	0	0
6/30/2024 18:01	42601	TUSC_T1	0	0	0	0	0	0	-1.02	-1.06	2	2	0	1800	1800	0
6/30/2024 18:03	42601	TUSC_T1	0	0	0	0	0	0	-1.02	-1.06	2	2	0	1800	1800	0
6/30/2024 18:04	44703	MUNC_T2	2	3	1	0.1	0	-0.1	0.63	0.63	0	0	0	0	0	0
6/30/2024 18:04	44701	MUNC_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/30/2024 18:09	59101	WALK_T2	9	3	-6	1.24	0	-1.24	0.13	0.07	2	2	0	1200	1200	0
6/30/2024 18:09	44301	BEAV_T2	52	83	31	0.7	0.71	0.01	0	0	0	0	0	0	0	0
6/30/2024 18:09	44302	BEAV_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
6/30/2024 18:09	58002	WCAR_T2	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
6/30/2024 18:09	58006	WCAR_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
6/30/2024 18:10	58003	WCAR_T1	1	2	1	0.2	0.6	0.4	0.5	0.5	1	1	0	600	600	0
6/30/2024 18:10	59101	WALK_T2	9	3	-6	1.24	0	-1.24	0.27	0.13	4	4	0	2400	2400	0
6/30/2024 18:11	59101	WALK_T2	9	3	-6	1.24	0	-1.24	0.13	0.07	2	2	0	1200	1200	0
6/30/2024 18:11	58003	WCAR_T1	1	2	1	0.2	0.6	0.4	0.5	0.5	1	1	0	600	600	0
6/30/2024 18:17	64305	LINC_T1	0	1	1	0	0.2	0.2	-0.68	-0.63	0	0	0	0	0	0
6/30/2024 18:43	52402	GRPA_T2	92	9	-83	0.84	0.55	-0.29	0	0	0	0	0	0	0	0
6/30/2024 18:43	52401	GRPA_T2	77	78	1	0.75	0.63	-0.12	-0.71	-0.71	0	0	0	0	0	0
6/30/2024 18:43	52403	GRPA_T2	151	134	-17	1.31	1.19	-0.12	0	0	0	0	0	0	0	0
6/30/2024 18:43	52404	GRPA_T2	3	1	-2	0.17	0	-0.17	0	0	0	0	0	0	0	0
6/30/2024 18:45	64305	LINC_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/30/2024 18:45	64301	LINC_T1	0	0	0	0	0	0	-0.59	-0.63	1	1	0	600	600	0
6/30/2024 18:46	50103	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 18:46	50201	HARR_T3	1	1	0	8.1	8.3	0.2	0	0	0	0	0	0	0	0
6/30/2024 18:46	50105	HARR_T3	6	6	0	7.47	7.17	-0.3	0	0	0	0	0	0	0	0
6/30/2024 18:46	50202	HARR_T3	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/30/2024 18:46	50107	HARR_T3	1	1	0	7.8	8	0.2	0.96	0.95	0	0	0	0	0	0
6/30/2024 18:49	64305	LINC_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
6/30/2024 18:49	64301	LINC_T1	0	0	0	0	0	0	-0.59	-0.63	1	1	0	600	600	0
6/30/2024 18:54	46901	MNTG_T2	1	4	3	0.1	0.15	0.05	0.6	0.57	0	0	0	0	0	0
6/30/2024 18:54	46902	MNTG_T2	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
6/30/2024 18:55	57104	SPHI_T2	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
6/30/2024 18:55	57103	SPHI_T2	0	0	0	0	0	0	-3.46	-3.48	1	1	0	600	600	0
6/30/2024 18:55	49803	UNIV_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/30/2024 18:55	49804	UNIV_T1	1	1	0	0.8	0	-0.8	1.44	1.41	0	0	0	0	0	0
6/30/2024 18:55	57106	SPHI_T2	3	3	0	0.5	0.67	0.17	0	0	0	0	0	0	0	0
6/30/2024 18:58	24703	FLND_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
6/30/2024 18:58	24701	FLND_T2	4	6	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/30/2024 18:58	24702	FLND_T2	0	1	1	0	0.1	0.1	-0.46	-0.29	2	2	0	2400	2400	0
6/30/2024 19:03	52404	GRPA_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
6/30/2024 19:03	52402	GRPA_T2	4	11	7	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
6/30/2024 19:03	52403	GRPA_T2	96	232	136	1.21	1.64	0.43	-0.54	-0.02	0	0	0	0	0	0
6/30/2024 19:03	52401	GRPA_T2	33	49	16	0.64	0.54	-0.1	0	0	0	0	0	0	0	0
6/30/2024 19:18	12301	LANA_T2	0	2	2	0	0	0	-0.9	-0.91	1	1	0	1200	1200	0
6/30/2024 19:18	12305	LANA_T2	5	8	3	1.26	0.5	-0.76	0	0	0	0	0	0	0	0
6/30/2024 19:18	12304	LANA_T2	17	21	4	0.59	0.78	0.19	0	0	0	0	0	0	0	0
6/30/2024 19:20	20603	GRWO_T2	0	0	0	0	0	0	-0.28	-0.29	1	1	0	900	900	0
6/30/2024 19:20	20601	GRWO_T2	51	41	-10	0.58	0.86	0.28	0	0	0	0	0	0	0	0
6/30/2024 19:23	59101	WALK_T2	2	2	0	0.35	0	-0.35	0.4	0.45	3	3	0	1800	1800	0
6/30/2024 19:24	44301	BEAV_T2	14	11	-3	0.83	0.76	-0.07	-0.36	-0.39	1	1	0	600	600	0
6/30/2024 19:24	44302	BEAV_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
6/30/2024 19:28	24901	WHHA_T1	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
6/30/2024 19:29	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/30/2024 19:29	64204	KINZ_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
6/30/2024 19:29	64203	KINZ_T1	0	0	0	0	0	0	0.2	0.21	1	1	0	600	600	0
6/30/2024 19:37	54001	SDLE_T1	53	7	-46	0.38	0.74	0.36	0	0	1	1	0	600	600	0
6/30/2024 19:40	61701	ELIZ_T1	1	2	1	1.4	1.8	0.4	0.63	0.7	0	0	0	0	0	0
6/30/2024 19:40	42401	AUGU_T1	149	129	-20	1.88	1.99	0.11	0	0	0	0	0	0	0	0
6/30/2024 19:41	42701	AUGU_T1	149	129	-20	1.88	1.99	0.11	0	0	0	0	0	0	0	0
6/30/2024 19:49	52501	PROG_T1	0	1	1	0	0.1	0.1	0.76	0.71	1	1	0	300	300	0
6/30/2024 19:49	52504	PROG_T1	0	8	8	0	0.14	0.14	0	0	0	0	0	0	0	0
6/30/2024 19:50	67203	TEHI_T1	0	0	0	0	0	0	1.35	1.33	1	1	0	900	900	0
6/30/2024 19:50	52504	PROG_T1	0	8	8	0	0.14	0.14	0	0	0	0	0	0	0	0
6/30/2024 19:50	52501	PROG_T1	0	1	1	0	0.1	0.1	0.76	0.71	1	1	0	300	300	0
6/30/2024 19:54	16301	ALPA_T1	1	1	0	0.1	0.3	0.2	0.59	0.55	0	0	0	0	0	0
6/30/2024 20:06	66505	SMAN_T2	10	17	7	0.36	0.68	0.32	0	0	0	0	0	0	0	0
6/30/2024 20:06	66503	SMAN_T2	3	1	-2	0.37	0	-0.37	0	0	0	0	0	0	0	0
6/30/2024 20:06	57404	SPAN_T2	0	2	2	0	0	0	-0.48	-0.53	1	1	0	1200	1200	0
6/30/2024 20:06	57402	SPAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 20:06	66504	SMAN_T2	3	1	-2	0.23	0	-0.23	-0.51	-0.45	0	0	0	0	0	0
6/30/2024 20:10	15203	SFAR_T2	0	1	1	0	0	0	-0.25	-0.28	0	0	0	0	0	0
6/30/2024 20:18	41901	REED_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/30/2024 20:18	41902	REED_T1	5	1	-4	0.78	0	-0.78	0	0	0	0	0	0	0	0
6/30/2024 20:18	41903	REED_T1	0	0	0	0	0	0	0.05	0.03	1	1	0	1200	1200	0
6/30/2024 20:26	43304	WATS_T2	5	2	-3	0.16	0	-0.16	-0.7	-0.73	0	0	0	0	0	0
6/30/2024 20:26	45602	WOOL_T1	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
6/30/2024 20:26	45601	WOOL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 20:27	45601	WOOL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 20:27	45602	WOOL_T1	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
6/30/2024 20:33	46801	HEPB_T2	16	35	19	0.33	0.35	0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/30/2024 20:33	46803	HEPB_T2	4	15	11	0.15	0.22	0.07	0.65	0.63	0	0	0	0	0	0
6/30/2024 20:34	46803	HEPB_T2	4	15	11	0.15	0.22	0.07	0	0	0	0	0	0	0	0
6/30/2024 20:34	46801	HEPB_T2	16	35	19	0.33	0.35	0.02	0.13	0.09	0	0	0	0	0	0
6/30/2024 21:19	43202	MVIL_T2	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
6/30/2024 21:20	43202	MVIL_T2	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
6/30/2024 21:21	43202	MVIL_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
6/30/2024 21:22	67801	WLAN_T1	0	0	0	0	0	0	-1.18	-1.22	0	0	0	0	0	0
6/30/2024 21:22	67804	WLAN_T1	5	5	0	0.66	0.53	-0.13	0	0	0	0	0	0	0	0
6/30/2024 21:43	41301	FISH_T1	11	4	-7	0.15	0.87	0.72	-0.5	-0.51	0	0	0	0	0	0
6/30/2024 21:43	41303	FISH_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 21:43	41305	FISH_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 21:52	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 21:52	57401	SPAN_T1	0	0	0	0	0	0	-0.77	-0.78	1	1	0	600	600	0
6/30/2024 21:57	66502	SMAN_T2	0	0	0	0	0	0	-0.96	-0.96	0	0	0	0	0	0
6/30/2024 22:07	45702	LIND_T2	4	4	0	0.2	0.25	0.05	-1.64	-1.67	0	0	0	0	0	0
6/30/2024 22:07	58401	MORO_T1	0	0	0	0	0	0	-2.18	-2.23	2	2	0	1200	1200	0
6/30/2024 22:09	41301	FISH_T1	3	15	12	0.55	0.25	-0.3	-0.52	-0.52	0	0	0	0	0	0
6/30/2024 22:09	58401	MORO_T1	0	0	0	0	0	0	-2.18	-2.23	2	2	0	1200	1200	0
6/30/2024 22:15	61102	BERK_T5	0	0	0	0	0	0	-0.11	-0.26	1	1	0	300	300	0
6/30/2024 22:16	61701	ELIZ_T1	1	1	0	4	4.6	0.6	0.84	0.86	0	0	0	0	0	0
6/30/2024 22:17	14403	SSLA_T1	0	1	1	0	0	0	0.44	0.4	1	1	0	600	600	0
6/30/2024 22:17	14404	SSLA_T1	1	1	0	4	3.4	-0.6	0	0	0	0	0	0	0	0
6/30/2024 22:19	40101	HUNT_T2	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
6/30/2024 22:22	40101	HUNT_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
6/30/2024 22:23	47101	MARL_T1	14	10	-4	1.56	0	-1.56	-0.46	-0.51	0	0	0	0	0	0
6/30/2024 22:24	46001	BERW_T1	0	0	0	0	0	0	-0.37	-0.41	0	0	0	0	0	0
6/30/2024 22:32	65603	QVIL_T2	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
6/30/2024 22:33	61704	ELIZ_T2	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/30/2024 22:33	61702	ELIZ_T2	0	0	0	0	0	0	-1.49	-1.51	2	2	0	1500	1500	0
6/30/2024 22:35	24701	FLND_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
6/30/2024 22:36	51401	LYKE_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
6/30/2024 22:36	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/30/2024 22:37	25503	MADI_T1	64	108	44	0.22	0.39	0.17	-0.78	-0.8	0	0	0	0	0	0
6/30/2024 22:37	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/30/2024 22:37	58006	WCAR_T2	0	0	0	0	0	0	-0.58	-0.61	0	0	0	0	0	0
6/30/2024 22:37	64202	KINZ_T1	3	3	0	0.47	0.73	0.26	0	0	0	0	0	0	0	0
6/30/2024 22:37	29402	BELT_T1	1	1	0	7.7	8.1	0.4	0	0	0	0	0	0	0	0
6/30/2024 22:37	64203	KINZ_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
6/30/2024 22:37	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/30/2024 22:37	64201	KINZ_T1	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
6/30/2024 22:37	64302	LINC_T2	0	0	0	0	0	0	1.12	1.12	0	0	0	0	0	0
6/30/2024 22:38	47001	HUGH_T2	3	6	3	8.6	4.68	-3.92	-1.7	-1.74	1	1	0	900	900	0
6/30/2024 22:38	47002	HUGH_T2	8	3	-5	0.2	0.27	0.07	0	0	0	0	0	0	0	0
6/30/2024 22:38	58801	COCO_T2	0	0	0	0	0	0	-1.55	-1.53	2	2	0	2400	2400	0
6/30/2024 22:39	61802	EELI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:39	29402	BELT_T1	1	1	0	7.7	8.1	0.4	0	0	0	0	0	0	0	0
6/30/2024 22:39	46206	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/30/2024 22:39	55101	WERT_T1	0	0	0	0	0	0	-1.91	-1.94	3	3	0	2400	2400	0
6/30/2024 22:39	46203	DANV_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
6/30/2024 22:39	56501	ROCK_T2	1	1	0	7.7	5.5	-2.2	0	0	0	0	0	0	0	0
6/30/2024 22:39	24902	WHHA_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
6/30/2024 22:39	56504	ROCK_T2	0	1	1	0	0	0	0.16	0.11	0	0	0	0	0	0
6/30/2024 22:39	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/30/2024 22:39	42601	TUSC_T1	2	0	-2	0.45	0	-0.45	-0.14	-0.22	2	2	0	1800	1800	0
6/30/2024 22:39	53903	HALI_T2	2	0	-2	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/30/2024 22:39	53902	HALI_T2	1	1	0	4.8	4.9	0.1	-0.67	-0.7	0	0	0	0	0	0
6/30/2024 22:39	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
6/30/2024 22:40	52002	LING_T2	0	0	0	0	0	0	-0.37	-0.44	0	0	0	0	0	0
6/30/2024 22:40	24701	FLND_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
6/30/2024 22:40	11104	EGYP_T1	1	0	-1	1.6	0	-1.6	0.55	0.51	0	0	0	0	0	0
6/30/2024 22:40	21206	ECAR_T2	2	1	-1	4.1	8.4	4.3	0.02	0	0	0	0	0	0	0
6/30/2024 22:40	67505	WEWI_T1	0	0	0	0	0	0	0.33	0.3	1	1	0	900	900	0
6/30/2024 22:40	21204	ECAR_T2	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
6/30/2024 22:40	52004	LING_T2	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
6/30/2024 22:40	16302	ALPA_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
6/30/2024 22:40	43402	BENT_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
6/30/2024 22:40	60801	BUCK_T1	2	0	-2	0.1	0	-0.1	-0.05	-0.06	0	0	0	0	0	0
6/30/2024 22:40	60803	BUCK_T1	14	6	-8	0.37	0.15	-0.22	0	0	0	0	0	0	0	0
6/30/2024 22:40	13904	SEID_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/30/2024 22:40	14403	SSLA_T1	0	1	1	0	0.2	0.2	0.35	0.3	1	1	0	600	600	0
6/30/2024 22:40	13905	SEID_T1	0	0	0	0	0	0	-0.61	-0.64	1	1	0	1200	1200	0
6/30/2024 22:40	13503	MCMI_T2	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
6/30/2024 22:40	61102	BERK_T5	0	0	0	0	0	0	-0.99	-1.17	4	4	0	1200	1200	0
6/30/2024 22:40	14404	SSLA_T1	1	1	0	3.3	3.7	0.4	0	0	0	0	0	0	0	0
6/30/2024 22:40	61701	ELIZ_T1	1	1	0	4.5	4.6	0.1	0.86	0.76	0	0	0	0	0	0
6/30/2024 22:41	64201	KINZ_T1	1	1	0	1.2	1.5	0.3	-0.52	-0.29	3	2	-1	1500	1200	-300
6/30/2024 22:41	57103	SPHI_T2	0	0	0	0	0	0	-1.74	-1.78	1	1	0	600	600	0
6/30/2024 22:41	46203	DANV_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
6/30/2024 22:41	42903	MIDD_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/30/2024 22:41	47802	MOCA_T2	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
6/30/2024 22:41	47002	HUGH_T2	8	3	-5	0.2	0.27	0.07	0	0	0	0	0	0	0	0
6/30/2024 22:41	64202	KINZ_T1	3	3	0	0.47	0.73	0.26	0	0	0	0	0	0	0	0
6/30/2024 22:41	42902	MIDD_T2	0	0	0	0	0	0	-1.16	-1.1	1	1	0	600	600	0
6/30/2024 22:41	57104	SPHI_T2	1	1	0	3	3.3	0.3	0	0	0	0	0	0	0	0
6/30/2024 22:41	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/30/2024 22:41	61102	BERK_T5	0	0	0	0	0	0	-0.25	-0.29	1	1	0	300	300	0
6/30/2024 22:41	46206	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
6/30/2024 22:41	57101	SPHI_T2	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/30/2024 22:41	57106	SPHI_T2	3	3	0	1.63	1.43	-0.2	0	0	0	0	0	0	0	0
6/30/2024 22:41	47001	HUGH_T2	3	6	3	8.6	4.68	-3.92	-1.7	-1.74	1	1	0	900	900	0
6/30/2024 22:42	12803	MICK_T1	1	0	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
6/30/2024 22:42	13503	MCMI_T2	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
6/30/2024 22:42	12301	LANA_T2	0	0	0	0	0	0	-1.02	-0.87	1	1	0	1200	1200	0
6/30/2024 22:42	20603	GRWO_T2	70	66	-4	0.39	0.36	-0.03	-0.43	-0.44	1	1	0	900	900	0
6/30/2024 22:42	56504	ROCK_T2	0	1	1	0	0	0	0.16	0.11	0	0	0	0	0	0
6/30/2024 22:42	66701	STRA_T1	0	0	0	0	0	0	0.21	0.18	1	1	0	600	600	0
6/30/2024 22:42	15203	SFAR_T2	0	0	0	0	0	0	-0.65	-0.69	0	0	0	0	0	0
6/30/2024 22:42	44302	BEAV_T2	0	0	0	0	0	0	0.79	0.92	0	0	0	0	0	0
6/30/2024 22:42	16302	ALPA_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
6/30/2024 22:42	52002	LING_T2	0	0	0	0	0	0	-0.37	-0.44	0	0	0	0	0	0
6/30/2024 22:42	65001	NEFF_T2	0	0	0	0	0	0	-0.86	-0.9	1	1	0	1200	1200	0
6/30/2024 22:42	15204	SFAR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
6/30/2024 22:42	20403	ASHF_T2	0	0	0	0	0	0	1.16	1.07	0	0	0	0	0	0
6/30/2024 22:42	12701	MACU_T1	0	0	0	0	0	0	-0.89	-0.91	1	1	0	1200	1200	0
6/30/2024 22:42	21504	CEAV_T1	0	0	0	0	0	0	1.56	1.54	0	0	0	0	0	0
6/30/2024 22:42	63501	HEID_TBK1-2	0	1	1	0	1.1	1.1	-0.08	-0.11	1	1	0	900	900	0
6/30/2024 22:42	56501	ROCK_T2	1	1	0	7.7	5.5	-2.2	0	0	0	0	0	0	0	0
6/30/2024 22:42	67605	WARW_T1	0	1	1	0	0	0	-2.16	-2.26	0	0	0	0	0	0
6/30/2024 22:42	59101	WALK_T2	0	0	0	0	0	0	1.1	1.07	1	1	0	600	600	0
6/30/2024 22:42	45303	WBER_T2	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
6/30/2024 22:42	14204	EALL_T2	0	0	0	0	0	0	-1	-1.02	0	0	0	0	0	0
6/30/2024 22:42	12801	MICK_T1	0	0	0	0	0	0	-0.87	-0.9	1	1	0	600	600	0
6/30/2024 22:42	65003	NEFF_T2	1	6	5	0.1	0.25	0.15	0	0	0	0	0	0	0	0
6/30/2024 22:42	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/30/2024 22:42	40101	HUNT_T2	0	0	0	0	0	0	-0.92	-0.95	0	0	0	0	0	0
6/30/2024 22:43	46302	ROHR_T1	4	4	0	1.2	1.68	0.48	0.29	0.29	0	0	0	0	0	0
6/30/2024 22:43	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
6/30/2024 22:43	49803	UNIV_T1	4	33	29	0.13	0.23	0.1	-0.9	-0.94	0	0	0	0	0	0
6/30/2024 22:43	61701	ELIZ_T1	1	1	0	4.5	4.6	0.1	0	0	0	0	0	0	0	0
6/30/2024 22:43	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
6/30/2024 22:43	47101	MARL_T1	10	0	-10	0.68	0	-0.68	-0.51	-0.55	0	0	0	0	0	0
6/30/2024 22:43	67203	TEHI_T1	0	0	0	0	0	0	1.44	1.42	1	1	0	600	600	0
6/30/2024 22:43	64201	KINZ_T1	1	1	0	1.2	1.5	0.3	-1.03	-0.57	6	4	-2	3000	2400	-600
6/30/2024 22:43	46206	DANV_T2	1	0	-1	0.2	0	-0.2	0.76	0.8	2	2	0	2100	2100	0
6/30/2024 22:43	63401	HONY_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
6/30/2024 22:43	60502	NMAN_T2	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
6/30/2024 22:43	58705	ROSE_T2	4	5	1	1.78	1.54	-0.24	0	0	0	0	0	0	0	0
6/30/2024 22:43	66703	STRA_T1	0	0	0	0	0	0	0.21	0.09	0	0	0	0	0	0
6/30/2024 22:43	65604	QVIL_T2	0	0	0	0	0	0	1.27	1.24	0	0	0	0	0	0
6/30/2024 22:43	56504	SMAN_T2	0	0	0	0	0	0	0.2	0.09	0	0	0	0	0	0
6/30/2024 22:43	58706	ROSE_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
6/30/2024 22:43	29402	BELT_T1	1	1	0	7.7	8.1	0.4	0	0	0	0	0	0	0	0
6/30/2024 22:43	49804	UNIV_T1	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
6/30/2024 22:43	58701	ROSE_T2	0	0	0	0	0	0	-2	-2.05	1	1	0	600	600	0
6/30/2024 22:43	16302	ALPA_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
6/30/2024 22:43	53902	HALI_T2	2	0	-2	0.8	0	-0.8	0	0	0	0	0	0	0	0
6/30/2024 22:43	55408	SHER_T2	1	1	0	2.4	2.8	0.4	-0.78	-0.8	1	1	0	1200	1200	0
6/30/2024 22:43	61801	EELI_T2	0	0	0	0	0	0	0.43	0.36	0	0	0	0	0	0
6/30/2024 22:43	61703	ELIZ_T1	0	0	0	0	0	0	-2.49	-2.5	2	2	0	2100	2100	0
6/30/2024 22:43	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/30/2024 22:43	45302	WBER_T2	0	0	0	0	0	0	1.05	1.05	0	0	0	0	0	0
6/30/2024 22:43	53902	HALI_T2	1	1	0	4.8	4.9	0.1	-0.67	-0.7	0	0	0	0	0	0
6/30/2024 22:43	60501	NMAN_T2	3	3	0	5.03	5.5	0.47	0	0	0	0	0	0	0	0
6/30/2024 22:43	64202	KINZ_T1	3	3	0	0.47	0.73	0.26	0	0	0	0	0	0	0	0
6/30/2024 22:44	12606	MACA_T1	23	13	-10	0.97	0.37	-0.6	0	0	0	0	0	0	0	0
6/30/2024 22:44	63401	HONY_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
6/30/2024 22:44	42903	MIDD_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/30/2024 22:44	60102	COCA_T1	0	0	0	0	0	0	0.74	0.82	1	1	0	600	600	0
6/30/2024 22:44	42601	TUSC_T1	2	0	-2	0.45	0	-0.45	-0.14	-0.22	2	2	0	1800	1800	0
6/30/2024 22:44	57106	SPHI_T2	3	3	0	1.63	1.43	-0.2	0	0	0	0	0	0	0	0
6/30/2024 22:44	24902	WHHA_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
6/30/2024 22:44	56504	ROCK_T2	0	1	1	0	0	0	0.32	0.23	0	0	0	0	0	0
6/30/2024 22:44	46206	DANV_T2	1	0	-1	0.2	0	-0.2	0.76	0.8	2	2	0	2100	2100	0
6/30/2024 22:44	65603	QVIL_T2	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
6/30/2024 22:44	21203	ECAR_T1	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
6/30/2024 22:44	63305	GREE_T1	14	5	-9	0.18	0.25	0.07	0	0	0	0	0	0	0	0
6/30/2024 22:44	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/30/2024 22:44	12302	LANA_T2	0	0	0	0	0	0	-2.24	-2.3	3	3	0	2700	2700	0
6/30/2024 22:44	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/30/2024 22:44	67603	WARW_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
6/30/2024 22:44	57104	SPHI_T2	1	1	0	3	3.3	0.3	-1.49	-1.56	1	1	0	900	900	0
6/30/2024 22:44	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
6/30/2024 22:44	61102	BERK_T5	0	0	0	0	0	0	-0.49	-0.58	2	2	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/30/2024 22:44	63304	GREE_T1	11	0	-11	0.24	0	-0.24	-1.28	-1.32	0	0	0	0	0	0
6/30/2024 22:44	67605	WARW_T1	0	1	1	0	0	0	-1.08	-1.13	0	0	0	0	0	0
6/30/2024 22:44	20403	ASHF_T2	0	0	0	0	0	0	0.58	0.53	0	0	0	0	0	0
6/30/2024 22:44	57101	SPHI_T2	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
6/30/2024 22:44	12601	MACA_T1	0	0	0	0	0	0	1.13	1.1	0	0	0	0	0	0
6/30/2024 22:44	42902	MIDD_T2	0	0	0	0	0	0	-1.16	-1.1	1	1	0	600	600	0
6/30/2024 22:44	52004	LING_T2	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
6/30/2024 22:44	56501	ROCK_T2	1	1	0	7.7	5.5	-2.2	-4.26	-4.39	0	0	0	0	0	0
6/30/2024 22:44	66504	SMAN_T2	0	0	0	0	0	0	0.4	0.19	0	0	0	0	0	0
6/30/2024 22:45	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.22	0.27	3	2	-1	2100	1500	-600
6/30/2024 22:45	66902	SHIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/30/2024 22:45	52401	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/30/2024 22:45	58701	ROSE_T2	0	0	0	0	0	0	-2	-2.05	1	1	0	600	600	0
6/30/2024 22:45	58705	ROSE_T2	5	5	0	1.54	1.78	0.24	0	0	0	0	0	0	0	0
6/30/2024 22:45	52403	GRPA_T2	1	0	-1	0.3	0	-0.3	-0.32	-0.34	0	0	0	0	0	0
6/30/2024 22:45	58706	ROSE_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/30/2024 22:45	24702	FLND_T2	0	0	0	0	0	0	-0.68	-0.46	1	1	0	1200	1200	0
6/30/2024 22:45	56504	ROCK_T2	0	1	1	0	0	0	0.32	0.23	0	0	0	0	0	0
6/30/2024 22:45	53902	HALI_T2	1	1	0	4.8	5.4	0.6	-0.67	-0.7	0	0	0	0	0	0
6/30/2024 22:45	67505	WEWI_T1	0	0	0	0	0	0	0.33	0.3	1	1	0	900	900	0
6/30/2024 22:45	56501	ROCK_T2	1	12	11	6.8	0.15	-6.65	0	0	0	0	0	0	0	0
6/30/2024 22:45	22905	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:45	20603	GRWO_T2	66	31	-35	0.36	0.25	-0.11	-0.43	-0.44	1	1	0	900	900	0
6/30/2024 22:45	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
6/30/2024 22:45	11507	FREE_T2	6	4	-2	0.48	0.35	-0.13	1.26	1.16	1	1	0	600	600	0
6/30/2024 22:45	61102	BERK_T5	0	0	0	0	0	0	-0.25	-0.29	1	1	0	300	300	0
6/30/2024 22:45	52402	GRPA_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
6/30/2024 22:45	42701	AUGU_T1	66	58	-8	1.09	0.72	-0.37	0	0	0	0	0	0	0	0
6/30/2024 22:45	22903	HARW_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:45	22901	HARW_T1	0	0	0	0	0	0	-0.76	-0.71	2	2	0	2400	2400	0
6/30/2024 22:45	67501	WEWI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:45	53903	HALI_T2	0	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0
6/30/2024 22:45	66901	SHIL_T2	6	16	10	0.1	0.11	0.01	0.2	0.17	0	0	0	0	0	0
6/30/2024 22:45	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/30/2024 22:45	53901	HALI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/30/2024 22:45	20403	ASHF_T2	0	0	0	0	0	0	0.58	0.53	0	0	0	0	0	0
6/30/2024 22:45	65602	QIVL_T2	0	0	0	0	0	0	1.74	1.7	0	0	0	0	0	0
6/30/2024 22:45	46001	BERW_T1	0	0	0	0	0	0	-0.82	-0.9	0	0	0	0	0	0
6/30/2024 22:45	67605	WARW_T1	0	3	3	0	0.15	0.15	-1.08	-1.13	0	0	0	0	0	0
6/30/2024 22:46	58705	ROSE_T2	5	0	-5	1.54	1.78	0.24	0	0	0	0	0	0	0	0
6/30/2024 22:46	55002	NEWP_T1	6	6	0	1.08	1.45	0.37	0	0	0	0	0	0	0	0
6/30/2024 22:46	58701	ROSE_T2	0	0	0	0	0	0	-2	-2.05	1	1	0	600	600	0
6/30/2024 22:46	64301	LINC_T1	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
6/30/2024 22:46	10901	COOP_T2	0	0	0	0	0	0	-0.37	-0.39	1	1	0	1200	1200	0
6/30/2024 22:46	60803	BUCK_T1	6	14	8	0.15	0.27	0.12	0	0	0	0	0	0	0	0
6/30/2024 22:46	60801	BUCK_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
6/30/2024 22:46	64101	REFR_T1	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
6/30/2024 22:46	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/30/2024 22:46	63401	HONY_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
6/30/2024 22:46	63804	HEMP_T1	1	1	0	6.1	5.7	-0.4	0.11	0.08	0	0	0	0	0	0
6/30/2024 22:46	58706	ROSE_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/30/2024 22:46	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
6/30/2024 22:46	47101	MARL_T1	0	0	0	0	0	0	-0.51	-0.55	0	0	0	0	0	0
6/30/2024 22:46	40902	JESH_T1	0	0	0	0	0	0	-1.21	-1.24	1	1	0	600	600	0
6/30/2024 22:46	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:46	56801	BENV_T1	8	10	2	1.1	0.97	-0.13	-0.44	-0.47	1	1	0	600	600	0
6/30/2024 22:46	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:46	67203	TEHI_T1	0	0	0	0	0	0	1.44	1.42	1	1	0	600	600	0
6/30/2024 22:46	55001	NEWP_T1	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
6/30/2024 22:46	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
6/30/2024 22:46	44703	MUNC_T2	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
6/30/2024 22:46	46203	DANV_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
6/30/2024 22:46	56501	ROCK_T2	1	12	11	6.8	0.15	-6.65	-1.42	-1.46	0	0	0	0	0	0
6/30/2024 22:47	16301	ALPA_T1	1	1	0	0.2	0.4	0.2	0.11	0.07	0	0	0	0	0	0
6/30/2024 22:47	22901	HARW_T1	0	0	0	0	0	0	-0.38	-0.35	1	1	0	1200	1200	0
6/30/2024 22:47	56801	BENV_T1	8	10	2	1.1	0.97	-0.13	-0.89	-0.94	2	2	0	1200	1200	0
6/30/2024 22:47	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:47	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
6/30/2024 22:47	40902	JESH_T1	0	0	0	0	0	0	-1.21	-1.24	1	1	0	600	600	0
6/30/2024 22:47	66703	STRA_T1	0	0	0	0	0	0	0.21	0.09	0	0	0	0	0	0
6/30/2024 22:47	44801	EDAN_T2	1	0	-1	0.3	0	-0.3	0.68	0.67	0	0	0	0	0	0
6/30/2024 22:47	66701	STRA_T1	0	0	0	0	0	0	0.21	0.18	1	1	0	600	600	0
6/30/2024 22:47	67602	WARW_T2	0	0	0	0	0	0	-0.11	-0.14	2	2	0	1500	1500	0
6/30/2024 22:47	22903	HARW_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:47	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:47	61801	EELI_T2	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
6/30/2024 22:47	58803	COCO_T1	1	1	0	1.1	1.1	0	-0.77	-0.82	0	0	0	0	0	0
6/30/2024 22:47	61102	BERK_T5	0	0	0	0	0	0	-0.49	-0.58	2	2	0	600	600	0
6/30/2024 22:47	52002	LING_T2	0	0	0	0	0	0	-0.37	-0.44	0	0	0	0	0	0
6/30/2024 22:47	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:47	56501	ROCK_T2	1	12	11	6.8	0.15	-6.65	-1.42	-1.46	0	0	0	0	0	0
6/30/2024 22:47	66203	SISP_T2	0	0	0	0	0	0	-0.92	-1	1	1	0	1200	1200	0
6/30/2024 22:47	55102	WERT_T2	0	0	0	0	0	0	-1.17	-1.12	1	1	0	600	600	0
6/30/2024 22:47	67503	WEWI_T2	0	0	0	0	0	0	-0.42	-0.45	0	0	0	0	0	0
6/30/2024 22:47	22905	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:47	57404	SPAN_T2	0	0	0	0	0	0	-1.01	-1.06	1	1	0	1200	1200	0
6/30/2024 22:47	67605	WARW_T1	0	3	3	0	0.15	0.15	-1.08	-1.13	0	0	0	0	0	0
6/30/2024 22:47	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/30/2024 22:48	53903	HALI_T2	0	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0
6/30/2024 22:48	11104	EGYP_T1	0	0	0	0	0	0	0.55	0.51	0	0	0	0	0	0
6/30/2024 22:48	44301	BEAV_T2	0	1	1	0	0	0	-0.74	-0.77	1	1	0	600	600	0
6/30/2024 22:48	64101	REFR_T1	0	0	0	0	0	0	0.72	0.68	0	0	0	0	0	0
6/30/2024 22:48	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/30/2024 22:48	61102	BERK_T5	0	0	0	0	0	0	-0.25	-0.29	1	1	0	300	300	0
6/30/2024 22:48	67201	TEHI_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
6/30/2024 22:48	67602	WARW_T2	0	0	0	0	0	0	-0.11	-0.14	2	2	0	1500	1500	0
6/30/2024 22:48	66504	SMAN_T2	0	0	0	0	0	0	0.2	0.09	0	0	0	0	0	0
6/30/2024 22:48	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:48	52402	GRPA_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
6/30/2024 22:48	45303	WBER_T2	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
6/30/2024 22:48	55101	WERT_T1	0	0	0	0	0	0	-1.91	-1.94	3	3	0	2400	2400	0
6/30/2024 22:48	58803	COCO_T1	1	1	0	1.1	1.1	0	-1.53	-1.64	0	0	0	0	0	0
6/30/2024 22:48	52404	GRPA_T2	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
6/30/2024 22:48	67204	TEHI_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
6/30/2024 22:48	52403	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/30/2024 22:48	53902	HALI_T2	1	1	0	4.8	5.4	0.6	-0.67	-0.7	0	0	0	0	0	0
6/30/2024 22:48	12701	MACU_T1	0	0	0	0	0	0	-0.89	-0.91	1	1	0	1200	1200	0
6/30/2024 22:48	53901	HALI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/30/2024 22:48	42701	AUGU_T1	66	58	-8	1.09	0.72	-0.37	0	0	0	0	0	0	0	0
6/30/2024 22:48	52401	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/30/2024 22:48	42902	MIDD_T2	0	0	0	0	0	0	-1.16	-1.1	1	1	0	600	600	0
6/30/2024 22:48	46203	DANV_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
6/30/2024 22:48	66701	STRA_T1	0	0	0	0	0	0	0.21	0.18	1	1	0	600	600	0
6/30/2024 22:48	46301	ROHR_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
6/30/2024 22:48	23401	HONE_T2	1	1	0	0.5	0.9	0.4	-0.03	-0.04	0	0	0	0	0	0
6/30/2024 22:48	60803	BUCK_T1	6	14	8	0.15	0.27	0.12	0	0	0	0	0	0	0	0
6/30/2024 22:48	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.22	0.27	3	2	-1	2100	1500	-600
6/30/2024 22:48	60801	BUCK_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
6/30/2024 22:48	46302	ROHR_T1	4	4	0	1.58	1.9	0.32	0	0	0	0	0	0	0	0
6/30/2024 22:48	56501	ROCK_T2	1	12	11	6.8	0.15	-6.65	-1.42	-1.46	0	0	0	0	0	0
6/30/2024 22:48	66502	SMAN_T2	0	0	0	0	0	0	-1.06	-1.07	0	0	0	0	0	0
6/30/2024 22:49	61701	ELIZ_T1	1	1	0	4.6	4.1	-0.5	0	0	0	0	0	0	0	0
6/30/2024 22:49	24702	FLND_T2	0	0	0	0	0	0	-0.68	-0.46	1	1	0	1200	1200	0
6/30/2024 22:49	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.22	0.27	3	2	-1	2100	1500	-600
6/30/2024 22:49	60803	BUCK_T1	6	14	8	0.15	0.27	0.12	0	0	0	0	0	0	0	0
6/30/2024 22:49	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:49	52401	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/30/2024 22:49	67602	WARW_T2	0	0	0	0	0	0	-0.11	-0.14	2	2	0	1500	1500	0
6/30/2024 22:49	42902	MIDD_T2	0	0	0	0	0	0	-1.16	-1.1	1	1	0	600	600	0
6/30/2024 22:49	41901	REED_T1	8	7	-1	0.21	0.37	0.16	0	0	0	0	0	0	0	0
6/30/2024 22:49	43301	WATS_T2	1	1	0	0.2	0.5	0.3	-0.45	-0.47	1	1	0	900	900	0
6/30/2024 22:49	58701	ROSE_T2	0	0	0	0	0	0	-2	-2.05	1	1	0	600	600	0
6/30/2024 22:49	58003	WCAR_T1	2	3	1	0.95	0.7	-0.25	0.26	0.24	1	1	0	600	600	0
6/30/2024 22:49	58001	WCAR_T1	4	4	0	0.68	1.13	0.45	0	0	0	0	0	0	0	0
6/30/2024 22:49	59101	WALK_T2	0	0	0	0	0	0	1.1	1.07	1	1	0	600	600	0
6/30/2024 22:49	14403	SSLA_T1	1	1	0	0.5	0	-0.5	0.35	0.3	1	1	0	600	600	0
6/30/2024 22:49	59102	WALK_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/30/2024 22:49	56501	ROCK_T2	1	12	11	6.8	0.15	-6.65	-2.84	-2.93	0	0	0	0	0	0
6/30/2024 22:49	63304	GREE_T1	0	0	0	0	0	0	-1.28	-1.32	0	0	0	0	0	0
6/30/2024 22:49	60201	ATGL_T2	0	0	0	0	0	0	0.18	0.15	1	1	0	300	300	0
6/30/2024 22:49	41902	REED_T1	0	0	0	0	0	0	0.21	0.15	1	1	0	900	900	0
6/30/2024 22:49	42201	SHEN_T2	0	0	0	0	0	0	0.3	0.3	1	1	0	600	600	0
6/30/2024 22:49	14404	SSLA_T1	1	1	0	3.4	3.9	0.5	0	0	0	0	0	0	0	0
6/30/2024 22:49	47101	MARL_T1	0	0	0	0	0	0	-0.51	-0.55	0	0	0	0	0	0
6/30/2024 22:49	61505	EPET_T1	0	0	0	0	0	0	1.05	0.99	0	0	0	0	0	0
6/30/2024 22:49	60801	BUCK_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
6/30/2024 22:49	66701	STRA_T1	0	0	0	0	0	0	0.21	0.18	1	1	0	600	600	0
6/30/2024 22:49	54701	NEBL_T1	1	1	0	1.4	1.7	0.3	0	0	1	1	0	600	600	0
6/30/2024 22:49	45303	WBER_T2	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
6/30/2024 22:49	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/30/2024 22:49	58706	ROSE_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
6/30/2024 22:49	58705	ROSE_T2	5	5	0	1.54	1.78	0.24	0	0	0	0	0	0	0	0
6/30/2024 22:49	46203	DANV_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
6/30/2024 22:49	44301	BEAV_T2	0	1	1	0	0	0	-0.74	-0.77	1	1	0	600	600	0
6/30/2024 22:49	55001	NEWP_T1	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
6/30/2024 22:49	46102	MACI_T1	0	0	0	0	0	0	0.94	0.93	0	0	0	0	0	0
6/30/2024 22:49	44902	SCOT_T2	128	142	14	0.12	0.23	0.11	-0.72	-0.74	0	0	0	0	0	0
6/30/2024 22:49	52404	GRPA_T2	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
6/30/2024 22:49	12701	MACU_T1	0	0	0	0	0	0	-0.89	-0.91	1	1	0	1200	1200	0
6/30/2024 22:49	51003	NHAR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/30/2024 22:49	61703	ELIZ_T1	0	0	0	0	0	0	-7.46	-7.49	6	6	0	6300	6300	0
6/30/2024 22:49	63305	GREE_T1	2	8	6	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
6/30/2024 22:49	51004	NHAR_T1	1	1	0	6.4	6.1	-0.3	-1.57	-1.63	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/30/2024 22:49	52402	GRPA_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
6/30/2024 22:49	55002	NEWP_T1	6	6	0	1.08	1.45	0.37	0	0	0	0	0	0	0	0
6/30/2024 22:49	63303	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
6/30/2024 22:49	51002	NHAR_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
6/30/2024 22:49	52403	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/30/2024 22:50	51003	NHAR_T1	0	2	2	0	0.2	0.2	-1.7	-1.72	1	1	0	1200	1200	0
6/30/2024 22:50	22905	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:50	22903	HARW_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:50	58701	ROSE_T2	0	0	0	0	0	0	-2	-2.05	1	1	0	600	600	0
6/30/2024 22:50	64101	REFR_T1	0	0	0	0	0	0	0.72	0.68	0	0	0	0	0	0
6/30/2024 22:50	52403	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/30/2024 22:50	22901	HARW_T1	0	0	0	0	0	0	-0.38	-0.35	1	1	0	1200	1200	0
6/30/2024 22:50	63401	HONY_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
6/30/2024 22:50	51002	NHAR_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
6/30/2024 22:50	55101	WERT_T1	0	0	0	0	0	0	-3.82	-3.88	6	6	0	4800	4800	0
6/30/2024 22:50	42201	SHEN_T2	0	0	0	0	0	0	0.3	0.3	1	1	0	600	600	0
6/30/2024 22:50	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/30/2024 22:50	51004	NHAR_T1	1	1	0	6.4	6.1	-0.3	0	0	0	0	0	0	0	0
6/30/2024 22:50	43301	WATS_T2	1	1	0	0.2	0.5	0.3	-0.45	-0.47	1	1	0	900	900	0
6/30/2024 22:50	58001	WCAR_T1	4	4	0	0.68	1.13	0.45	0	0	0	0	0	0	0	0
6/30/2024 22:50	42902	MIDD_T2	0	0	0	0	0	0	-1.16	-1.1	1	1	0	600	600	0
6/30/2024 22:50	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
6/30/2024 22:50	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:50	67602	WARW_T2	0	0	0	0	0	0	-0.11	-0.14	2	2	0	1500	1500	0
6/30/2024 22:50	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:50	65802	RTWN_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
6/30/2024 22:50	48302	ORWI_T2	2	2	0	1.35	1.3	-0.05	0	0	0	0	0	0	0	0
6/30/2024 22:50	56501	ROCK_T2	1	12	11	6.8	0.15	-6.65	-1.42	-1.46	0	0	0	0	0	0
6/30/2024 22:50	58706	ROSE_T2	1	1	0	0.5	0.2	-0.3	0.89	0.86	1	1	0	600	600	0
6/30/2024 22:50	58705	ROSE_T2	5	5	0	1.54	1.78	0.24	0	0	0	0	0	0	0	0
6/30/2024 22:50	52401	GRPA_T2	1	1	0	0.6	0.8	0.2	-0.36	-0.37	0	0	0	0	0	0
6/30/2024 22:50	52402	GRPA_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
6/30/2024 22:50	47101	MARL_T1	0	0	0	0	0	0	-0.51	-0.55	0	0	0	0	0	0
6/30/2024 22:50	46203	DANV_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
6/30/2024 22:50	58003	WCAR_T1	2	3	1	0.95	0.7	-0.25	0.26	0.24	1	1	0	600	600	0
6/30/2024 22:50	55102	WERT_T2	0	0	0	0	0	0	-2.33	-2.24	2	2	0	1200	1200	0
6/30/2024 22:50	52404	GRPA_T2	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
6/30/2024 22:50	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/30/2024 22:50	48303	ORWI_T2	0	0	0	0	0	0	0.46	0.41	0	0	0	0	0	0
6/30/2024 22:51	42701	AUGU_T1	66	58	-8	1.09	0.72	-0.37	0	0	0	0	0	0	0	0
6/30/2024 22:51	13503	MCMI_T2	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
6/30/2024 22:51	51401	LYKE_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
6/30/2024 22:51	20403	ASHF_T2	0	0	0	0	0	0	0.58	0.53	0	0	0	0	0	0
6/30/2024 22:51	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:51	46101	MACI_T2	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
6/30/2024 22:51	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
6/30/2024 22:51	61702	ELIZ_T2	0	0	0	0	0	0	-1.55	-1.58	2	2	0	1500	1500	0
6/30/2024 22:51	67901	WNHO_T2	140	191	51	0.39	0.48	0.09	-0.4	-0.4	0	0	0	0	0	0
6/30/2024 22:51	54001	SDLE_T1	1	1	0	1.3	1	-0.3	0	0	1	1	0	600	600	0
6/30/2024 22:52	60502	NMAN_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
6/30/2024 22:52	58803	COCO_T1	1	1	0	1.1	1.1	0	-0.82	-0.87	0	0	0	0	0	0
6/30/2024 22:52	43304	WATS_T2	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
6/30/2024 22:52	60501	NMAN_T2	3	3	0	5	5.57	0.57	0	0	0	0	0	0	0	0
6/30/2024 22:52	43301	WATS_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/30/2024 22:52	24901	WHHA_T1	0	0	0	0	0	0	-0.61	-0.63	0	0	0	0	0	0
6/30/2024 22:52	56801	BENV_T1	8	10	2	1.1	0.97	-0.13	-0.94	-1	2	2	0	1200	1200	0
6/30/2024 22:52	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:52	12006	HATF_T1	0	0	0	0	0	0	1.16	1.13	0	0	0	0	0	0
6/30/2024 22:52	64101	REFR_T1	0	0	0	0	0	0	1.03	1.54	0	0	0	0	0	0
6/30/2024 22:52	20601	GRWO_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
6/30/2024 22:52	16302	ALPA_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
6/30/2024 22:52	52501	PROG_T1	1	43	42	0.1	0.12	0.02	0.28	0.41	1	1	0	300	300	0
6/30/2024 22:52	52504	PROG_T1	5	95	90	0.1	0.14	0.04	0	0	0	0	0	0	0	0
6/30/2024 22:52	56501	ROCK_T2	1	12	11	6.8	0.15	-6.65	-2.93	-3.01	0	0	0	0	0	0
6/30/2024 22:52	20603	GRWO_T2	66	31	-35	0.36	0.25	-0.11	0	0	0	0	0	0	0	0
6/30/2024 22:52	46203	DANV_T2	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
6/30/2024 22:52	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:53	56801	BENV_T1	8	10	2	1.1	0.97	-0.13	-0.94	-1	2	2	0	1200	1200	0
6/30/2024 22:53	11104	EGYP_T1	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
6/30/2024 22:53	46203	DANV_T2	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
6/30/2024 22:53	59101	WALK_T2	0	0	0	0	0	0	1.07	1.02	1	1	0	600	600	0
6/30/2024 22:53	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/30/2024 22:53	42902	MIDD_T2	0	0	0	0	0	0	-1.1	-1.12	1	1	0	600	600	0
6/30/2024 22:53	52402	GRPA_T2	1	1	0	0.8	0.4	-0.4	-0.69	-0.64	0	0	0	0	0	0
6/30/2024 22:53	42201	SHEN_T2	0	0	0	0	0	0	0.3	0.28	1	1	0	600	600	0
6/30/2024 22:53	45802	HEGI_T2	37	39	2	0.67	0.78	0.11	0.26	0.34	0	0	0	0	0	0
6/30/2024 22:53	46302	ROHR_T1	4	4	0	1.58	1.9	0.32	0.29	0.28	0	0	0	0	0	0
6/30/2024 22:53	52403	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
6/30/2024 22:53	52401	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/30/2024 22:53	67605	WARW_T1	0	3	3	0	0.15	0.15	-1.13	-0.99	0	0	0	0	0	0
6/30/2024 22:53	59102	WALK_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/30/2024 22:53	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
6/30/2024 22:53	64101	REFR_T1	0	0	0	0	0	0	0.34	0.51	0	0	0	0	0	0
6/30/2024 22:53	55101	WERT_T1	0	0	0	0	0	0	-1.94	-1.97	3	3	0	2400	2400	0
6/30/2024 22:54	55101	WERT_T1	0	0	0	0	0	0	-1.94	-1.97	3	3	0	2400	2400	0
6/30/2024 22:54	67605	WARW_T1	0	3	3	0	0.15	0.15	-1.13	-0.99	0	0	0	0	0	0
6/30/2024 22:54	56501	ROCK_T2	1	12	11	6.8	0.15	-6.65	0	0	0	0	0	0	0	0
6/30/2024 22:54	42201	SHEN_T2	0	0	0	0	0	0	0.3	0.28	1	1	0	600	600	0
6/30/2024 22:54	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:54	53902	HALI_T2	1	1	0	4.8	5.4	0.6	-0.7	-0.72	0	0	0	0	0	0
6/30/2024 22:54	40902	JESH_T1	0	0	0	0	0	0	-1.24	-1.26	1	1	0	600	600	0
6/30/2024 22:54	53901	HALI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
6/30/2024 22:54	44302	BEAV_T2	0	0	0	0	0	0	0.92	0.89	0	0	0	0	0	0
6/30/2024 22:54	53903	HALI_T2	0	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0
6/30/2024 22:54	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 22:54	64101	REFR_T1	0	0	0	0	0	0	0.34	0.51	0	0	0	0	0	0
6/30/2024 22:54	46206	DANV_T2	0	0	0	0	0	0	0.8	0.82	2	2	0	2100	2100	0
6/30/2024 22:54	56504	ROCK_T2	0	1	1	0	0	0	0.11	0.07	0	0	0	0	0	0
6/30/2024 22:54	40603	PIGR_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
6/30/2024 22:54	40601	PIGR_T1	2	21	19	0.15	0.17	0.02	0	0	0	0	0	0	0	0
6/30/2024 22:54	67204	TEHI_T2	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
6/30/2024 22:55	46203	DANV_T2	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
6/30/2024 22:55	44902	SCOT_T2	128	142	14	0.12	0.23	0.11	-0.74	-0.76	0	0	0	0	0	0
6/30/2024 22:55	46001	BERW_T1	0	0	0	0	0	0	-0.45	-0.49	0	0	0	0	0	0
6/30/2024 22:55	52403	GRPA_T2	1	0	-1	0.3	0	-0.3	-0.34	-0.36	0	0	0	0	0	0
6/30/2024 22:55	61802	EELI_T2	0	0	0	0	0	0	0.19	0.14	0	0	0	0	0	0
6/30/2024 22:55	52401	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/30/2024 22:55	47101	MARL_T1	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
6/30/2024 22:55	56801	BENV_T1	8	10	2	1.1	0.97	-0.13	-0.94	-1	2	2	0	1200	1200	0
6/30/2024 22:55	13303	ORVI_T1	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
6/30/2024 22:55	55002	NEWP_T1	6	6	0	1.08	1.45	0.37	0	0	0	0	0	0	0	0
6/30/2024 22:55	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
6/30/2024 22:55	40601	PIGR_T1	2	21	19	0.15	0.17	0.02	0.02	0	0	0	0	0	0	0
6/30/2024 22:55	43301	WATS_T2	1	1	0	0.2	0.5	0.3	-0.47	-0.48	1	1	0	900	900	0
6/30/2024 22:55	46206	DANV_T2	0	0	0	0	0	0	0.8	0.82	2	2	0	2100	2100	0
6/30/2024 22:55	44301	BEAV_T2	0	1	1	0	0	0	-0.77	-0.79	1	1	0	600	600	0
6/30/2024 22:55	55001	NEWP_T1	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
6/30/2024 22:55	52402	GRPA_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
6/30/2024 22:55	12701	MACU_T1	0	0	0	0	0	0	-0.91	-0.93	1	1	0	1200	1200	0
6/30/2024 22:55	52002	LING_T2	0	0	0	0	0	0	-0.44	-0.5	0	0	0	0	0	0
6/30/2024 22:55	55408	SHER_T2	1	1	0	2.8	2.4	-0.4	-0.8	-0.82	1	1	0	1200	1200	0
6/30/2024 22:56	54001	SDLE_T1	1	1	0	1.3	1	-0.3	0	0	1	1	0	600	600	0
6/30/2024 22:56	57103	SPHI_T2	0	0	0	0	0	0	-1.78	-1.9	1	1	0	600	600	0
6/30/2024 22:56	43301	WATS_T2	1	1	0	0.2	0.5	0.3	-0.47	-0.48	1	1	0	900	900	0
6/30/2024 22:56	57106	SPHI_T2	3	3	0	1.33	1.63	0.3	0	0	0	0	0	0	0	0
6/30/2024 22:56	58402	MORO_T1	0	0	0	0	0	0	-0.12	-0.1	2	2	0	1500	1500	0
6/30/2024 22:56	41901	REED_T1	8	7	-1	0.21	0.37	0.16	0	0	0	0	0	0	0	0
6/30/2024 22:56	49803	UNIV_T1	17	38	21	0.18	0.21	0.03	-0.94	-0.99	0	0	0	0	0	0
6/30/2024 22:56	45302	WBER_T2	0	0	0	0	0	0	1.05	0.97	0	0	0	0	0	0
6/30/2024 22:56	57104	SPHI_T2	1	1	0	3.3	3	-0.3	0	0	0	0	0	0	0	0
6/30/2024 22:56	43402	BENT_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
6/30/2024 22:56	49804	UNIV_T1	1	3	2	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
6/30/2024 22:56	41903	REED_T1	0	0	0	0	0	0	-0.29	-0.3	1	1	0	1200	1200	0
6/30/2024 22:56	57401	SPAN_T1	0	1	1	0	0	0	-0.7	-0.75	1	1	0	600	600	0
6/30/2024 22:56	41902	REED_T1	0	0	0	0	0	0	0.15	0.16	1	1	0	900	900	0
6/30/2024 22:57	43304	WATS_T2	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
6/30/2024 22:57	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
6/30/2024 22:57	43301	WATS_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
6/30/2024 22:57	52002	LING_T2	0	0	0	0	0	0	-0.44	-0.5	0	0	0	0	0	0
6/30/2024 22:57	66504	SMAN_T2	0	0	0	0	0	0	0.09	0.03	0	0	0	0	0	0
6/30/2024 22:57	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
6/30/2024 22:57	42902	MIDD_T2	0	0	0	0	0	0	-1.1	-1.12	1	1	0	600	600	0
6/30/2024 22:57	47101	MARL_T1	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
6/30/2024 22:58	46901	MNTG_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
6/30/2024 22:58	46903	MNTG_T2	27	20	-7	0.16	0.17	0.01	0	0	0	0	0	0	0	0
6/30/2024 22:58	59101	WALK_T2	0	0	0	0	0	0	1.07	1.02	1	1	0	600	600	0
6/30/2024 22:58	52401	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
6/30/2024 22:58	47101	MARL_T1	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
6/30/2024 22:58	59102	WALK_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/30/2024 22:58	52002	LING_T2	0	0	0	0	0	0	-0.44	-0.5	0	0	0	0	0	0
6/30/2024 22:58	52403	GRPA_T2	1	0	-1	0.3	0	-0.3	-0.34	-0.36	0	0	0	0	0	0
6/30/2024 22:58	52402	GRPA_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
6/30/2024 22:58	55101	WERT_T1	0	0	0	0	0	0	-1.94	-1.97	3	3	0	2400	2400	0
6/30/2024 22:58	11804	FRAN_T1	1	27	26	0.1	0.11	0.01	0.17	0.03	0	0	0	0	0	0
6/30/2024 22:59	56801	BENV_T1	8	10	2	1.1	0.97	-0.13	-0.47	-0.5	1	1	0	600	600	0
6/30/2024 22:59	44301	BEAV_T2	0	1	1	0	0	0	-0.77	-0.79	1	1	0	600	600	0
6/30/2024 22:59	59102	WALK_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
6/30/2024 22:59	41902	REED_T1	0	0	0	0	0	0	0.15	0.16	1	1	0	900	900	0
6/30/2024 22:59	41901	REED_T1	8	7	-1	0.21	0.37	0.16	0	0	0	0	0	0	0	0
6/30/2024 22:59	59101	WALK_T2	0	0	0	0	0	0	1.07	1.02	1	1	0	600	600	0
6/30/2024 23:00	46302	ROHR_T1	4	4	0	1.68	1.93	0.25	0.29	0.28	0	0	0	0	0	0
6/30/2024 23:00	43402	BENT_T1	0	3	3	0	0.13	0.13	0.05	0.05	0	0	0	0	0	0
6/30/2024 23:00	56801	BENV_T1	7	11	4	1.24	1.04	-0.2	-0.47	-0.5	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
6/30/2024 23:01	43402	BENT_T1	0	3	3	0	0.13	0.13	0.09	0.09	0	0	0	0	0	0
6/30/2024 23:01	42903	MIDD_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
6/30/2024 23:01	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/30/2024 23:01	42902	MIDD_T2	0	0	0	0	0	0	-1.1	-1.12	1	1	0	600	600	0
6/30/2024 23:01	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
6/30/2024 23:02	49804	UNIV_T1	2	2	0	0.4	0.25	-0.15	0.82	0.79	0	0	0	0	0	0
6/30/2024 23:02	49803	UNIV_T1	33	30	-3	0.23	0.19	-0.04	0	0	0	0	0	0	0	0
6/30/2024 23:14	22701	MINO_T1	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
6/30/2024 23:18	64101	REFR_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
6/30/2024 23:22	43402	BENT_T1	0	3	3	0	0.3	0.3	0.04	0.04	0	0	0	0	0	0
6/30/2024 23:23	43402	BENT_T1	0	3	3	0	0.3	0.3	0.04	0.04	0	0	0	0	0	0
6/30/2024 23:29	51002	NHAR_T1	1	1	0	0.9	1.4	0.5	0	0	0	0	0	0	0	0
6/30/2024 23:29	51004	NHAR_T1	1	1	0	6.1	5.9	-0.2	-1.65	-1.66	0	0	0	0	0	0
6/30/2024 23:29	51003	NHAR_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
6/30/2024 23:43	47401	PENS_T1	1	37	36	0.1	0.3	0.2	1.25	1.38	0	0	0	0	0	0
6/30/2024 23:46	47401	PENS_T1	18	37	19	0.17	0.3	0.13	1.25	1.38	0	0	0	0	0	0
6/30/2024 23:47	50107	HARR_T3	1	1	0	6.8	6.7	-0.1	0.79	0.78	0	0	0	0	0	0
6/30/2024 23:47	50105	HARR_T3	6	6	0	5.87	5.97	0.1	0	0	0	0	0	0	0	0
6/30/2024 23:47	50201	HARR_T3	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
6/30/2024 23:48	47401	PENS_T1	18	37	19	0.17	0.3	0.13	1.25	1.38	0	0	0	0	0	0
6/30/2024 23:48	52501	PROG_T1	0	0	0	0	0	0	0.19	0.14	1	1	0	300	300	0
7/1/2024 0:04	43402	BENT_T1	3	5	2	0.2	0.4	0.2	0.04	0.04	0	0	0	0	0	0
7/1/2024 0:06	43402	BENT_T1	3	5	2	0.2	0.4	0.2	0.04	0.04	0	0	0	0	0	0
7/1/2024 0:27	43402	BENT_T1	3	13	10	0.43	0.25	-0.18	0.04	0.04	0	0	0	0	0	0
7/1/2024 0:28	43402	BENT_T1	3	13	10	0.43	0.25	-0.18	0.04	0.04	0	0	0	0	0	0
7/1/2024 0:49	43402	BENT_T1	13	32	19	0.25	0.17	-0.08	0.04	0.04	0	0	0	0	0	0
7/1/2024 0:50	43402	BENT_T1	13	32	19	0.25	0.17	-0.08	0.04	0.04	0	0	0	0	0	0
7/1/2024 1:33	43402	BENT_T1	27	18	-9	0.19	0.21	0.02	0.03	0.03	0	0	0	0	0	0
7/1/2024 1:34	43402	BENT_T1	27	18	-9	0.19	0.21	0.02	0.03	0.03	0	0	0	0	0	0
7/1/2024 1:42	56503	ROCK_T2	27	87	60	0.13	0.19	0.06	0	0	0	0	0	0	0	0
7/1/2024 1:42	56501	ROCK_T2	185	366	181	0.28	0.34	0.06	-1.86	-1.88	0	0	0	0	0	0
7/1/2024 1:57	64305	LINC_T1	0	0	0	0	0	0	-0.44	-0.49	0	0	0	0	0	0
7/1/2024 2:17	43402	BENT_T1	29	66	37	0.21	0.2	-0.01	0.03	0.03	0	0	0	0	0	0
7/1/2024 2:18	43402	BENT_T1	29	66	37	0.21	0.2	-0.01	0.03	0.03	0	0	0	0	0	0
7/1/2024 5:03	64204	KINZ_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/1/2024 5:03	64201	KINZ_T1	5	3	-2	0.24	0.13	-0.11	0	0	0	0	0	0	0	0
7/1/2024 5:03	64202	KINZ_T1	3	2	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/1/2024 5:03	64203	KINZ_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
7/1/2024 5:04	65901	SAKR_T2	1	1	0	9	8.8	-0.2	-1.38	-1.37	1	1	0	900	900	0
7/1/2024 5:05	67605	WARW_T1	30	24	-6	0.67	0.66	-0.01	-1.23	-1.21	0	0	0	0	0	0
7/1/2024 6:10	14203	EALL_T1	0	0	0	0	0	0	-0.25	-0.28	1	1	0	1200	1200	0
7/1/2024 6:20	49804	UNIV_T1	0	0	0	0	0	0	0.64	0.56	0	0	0	0	0	0
7/1/2024 6:57	62102	ELAN_T1	0	0	0	0	0	0	0.61	0.67	0	0	0	0	0	0
7/1/2024 7:07	67501	WEWI_T1	0	0	0	0	0	0	-1	-0.96	1	1	0	600	600	0
7/1/2024 7:07	67503	WEWI_T2	0	0	0	0	0	0	-0.01	-0.2	0	0	0	0	0	0
7/1/2024 7:07	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 7:19	15203	SFAR_T2	0	0	0	0	0	0	-1.16	-1.11	0	0	0	0	0	0
7/1/2024 7:22	57106	SPHI_T2	3	3	0	1.73	1.77	0.04	0	0	0	0	0	0	0	0
7/1/2024 7:22	57101	SPHI_T2	6	6	0	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
7/1/2024 7:22	57104	SPHI_T2	3	2	-1	2.57	3.75	1.18	0	0	0	0	0	0	0	0
7/1/2024 7:22	57103	SPHI_T2	0	0	0	0	0	0	-1.4	-1.38	0	0	0	0	0	0
7/1/2024 7:23	15204	SFAR_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
7/1/2024 7:24	60802	BUCK_T2	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
7/1/2024 7:29	40101	HUNT_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
7/1/2024 7:29	61503	EPET_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
7/1/2024 7:37	57101	SPHI_T2	6	6	0	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
7/1/2024 7:37	57104	SPHI_T2	2	1	-1	1.2	1.7	0.5	0	0	0	0	0	0	0	0
7/1/2024 7:37	57106	SPHI_T2	3	3	0	1.77	1.6	-0.17	0	0	0	0	0	0	0	0
7/1/2024 7:37	57103	SPHI_T2	0	0	0	0	0	0	-1.38	-1.27	0	0	0	0	0	0
7/1/2024 7:38	67401	WAKE_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
7/1/2024 7:39	67401	WAKE_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
7/1/2024 7:40	14404	SSLA_T1	1	1	0	5.3	6.1	0.8	0	0	0	0	0	0	0	0
7/1/2024 7:40	22001	BOHE_T1	4	14	10	0.13	0.13	0	0	0	0	0	0	0	0	0
7/1/2024 7:40	14403	SSLA_T1	0	0	0	0	0	0	0.8	0.85	0	0	0	0	0	0
7/1/2024 7:40	22002	BOHE_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
7/1/2024 7:40	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 7:40	22003	BOHE_T1	240	266	26	0.47	0.56	0.09	0	0	0	0	0	0	0	0
7/1/2024 7:48	14601	SWHI_T1	0	0	0	0	0	0	-0.85	-0.84	0	0	0	0	0	0
7/1/2024 7:48	46602	LACR_T1	0	2	2	0	0.1	0.1	-0.9	-0.88	0	0	0	0	0	0
7/1/2024 7:49	45701	LIND_T2	0	1	1	0	0	0	-1.57	-1.57	0	0	0	0	0	0
7/1/2024 7:49	45702	LIND_T2	1	3	2	1	0.4	-0.6	0	0	0	0	0	0	0	0
7/1/2024 7:51	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/1/2024 7:54	67604	WARW_T1	0	0	0	0	0	0	0.05	0.13	0	0	0	0	0	0
7/1/2024 7:54	67605	WARW_T1	30	28	-2	0.57	0.57	0	0	0	0	0	0	0	0	0
7/1/2024 7:55	67604	WARW_T1	0	0	0	0	0	0	0.05	0.13	0	0	0	0	0	0
7/1/2024 7:55	67605	WARW_T1	30	28	-2	0.57	0.57	0	0	0	0	0	0	0	0	0
7/1/2024 7:58	63801	HEMP_T1	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
7/1/2024 7:58	63804	HEMP_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
7/1/2024 7:58	20601	EMID_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
7/1/2024 7:59	63501	HEID_TBK1-2	2	2	0	0.8	0.5	-0.3	0.22	0.21	1	1	0	900	900	0
7/1/2024 8:01	14601	SWHI_T1	0	0	0	0	0	0	-0.84	-0.82	0	0	0	0	0	0
7/1/2024 8:03	64701	LITI_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
7/1/2024 8:04	67001	STHI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/1/2024 8:04	67002	STHI_T2	0	3	3	0	0.27	0.27	0.77	0.8	0	0	0	0	0	0
7/1/2024 8:06	67803	WLAN_T1	0	2	2	0	0.15	0.15	-0.83	-0.81	0	0	0	0	0	0
7/1/2024 8:06	57403	SPAN_T1	2	28	26	0.1	0.31	0.21	0.05	0.06	0	0	0	0	0	0
7/1/2024 8:06	67804	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 8:06	57401	SPAN_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 8:07	57401	SPAN_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 8:07	67804	WLAN_T1	0	1	1	0	0.2	0.2	-1.05	-1.05	0	0	0	0	0	0
7/1/2024 8:07	57403	SPAN_T1	2	28	26	0.1	0.31	0.21	0.06	0.06	0	0	0	0	0	0
7/1/2024 8:07	67803	WLAN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/1/2024 8:08	67804	WLAN_T1	0	1	1	0	0.2	0.2	-1.05	-1.05	0	0	0	0	0	0
7/1/2024 8:08	67803	WLAN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/1/2024 8:09	67804	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 8:09	67803	WLAN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/1/2024 8:09	67805	WLAN_T1	0	0	0	0	0	0	-1.26	-1.21	0	0	0	0	0	0
7/1/2024 8:10	67803	WLAN_T1	0	2	2	0	0.15	0.15	-0.83	-0.81	0	0	0	0	0	0
7/1/2024 8:10	67804	WLAN_T1	0	1	1	0	0.2	0.2	-2.1	-2.1	0	0	0	0	0	0
7/1/2024 8:10	22001	BOHE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 8:10	22002	BOHE_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
7/1/2024 8:10	61801	EELI_T2	0	1	1	0	0.1	0.1	-0.62	-0.6	1	1	0	600	600	0
7/1/2024 8:10	67805	WLAN_T1	0	0	0	0	0	0	-1.26	-1.21	0	0	0	0	0	0
7/1/2024 8:10	22003	BOHE_T1	238	215	-23	0.44	0.32	-0.12	0	0	0	0	0	0	0	0
7/1/2024 8:11	67804	WLAN_T1	0	1	1	0	0.2	0.2	-1.05	-1.05	0	0	0	0	0	0
7/1/2024 8:11	67803	WLAN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/1/2024 8:12	67803	WLAN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/1/2024 8:12	67303	WYOM_T2	0	1	1	0	0.2	0.2	-1.28	-1.24	0	0	0	0	0	0
7/1/2024 8:12	67804	WLAN_T1	0	1	1	0	0.2	0.2	-1.05	-1.05	0	0	0	0	0	0
7/1/2024 8:18	58102	NEKI_T1	1	2	1	1.6	0.95	-0.65	-0.82	-0.85	0	0	0	0	0	0
7/1/2024 8:20	66903	SHIL_T2	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
7/1/2024 8:20	66902	SHIL_T2	22	0	-22	0.11	0	-0.11	0	0	0	0	0	0	0	0
7/1/2024 8:20	66901	SHIL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/1/2024 8:21	66903	SHIL_T2	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
7/1/2024 8:21	66902	SHIL_T2	22	0	-22	0.11	0	-0.11	-0.46	-0.45	0	0	0	0	0	0
7/1/2024 8:22	66902	SHIL_T2	22	0	-22	0.11	0	-0.11	-0.46	-0.45	0	0	0	0	0	0
7/1/2024 8:22	67505	WEWI_T1	0	0	0	0	0	0	-0.14	-0.06	2	2	0	1800	1800	0
7/1/2024 8:22	66901	SHIL_T2	1	1	0	0.3	0.3	0	0.13	0.06	0	0	0	0	0	0
7/1/2024 8:23	56802	BENV_T2	1	1	0	0.5	0.8	0.3	-0.62	-0.61	0	0	0	0	0	0
7/1/2024 8:23	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.37	-0.37	0	0	0	0	0	0
7/1/2024 8:23	15703	TANN_T2	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
7/1/2024 8:25	51904	COPA_T1	5	5	0	0.82	1.3	0.48	0	0	0	0	0	0	0	0
7/1/2024 8:25	51906	COPA_T1	0	0	0	0	0	0	0.03	0	1	1	0	600	600	0
7/1/2024 8:25	56802	BENV_T2	1	1	0	0.5	0.8	0.3	-1.87	-1.83	0	0	0	0	0	0
7/1/2024 8:26	29401	BELT_T1	47	98	51	0.23	0.33	0.1	0	0	1	1	0	900	900	0
7/1/2024 8:26	29402	BELT_T1	1	2	1	8.4	4.55	-3.85	0	0	0	0	0	0	0	0
7/1/2024 8:27	29402	BELT_T1	1	2	1	8.4	4.55	-3.85	0	0	0	0	0	0	0	0
7/1/2024 8:27	29401	BELT_T1	47	98	51	0.23	0.33	0.1	0	0	1	1	0	900	900	0
7/1/2024 8:27	56802	BENV_T2	1	1	0	0.5	0.8	0.3	-0.62	-0.61	0	0	0	0	0	0
7/1/2024 8:28	56802	BENV_T2	1	1	0	0.5	0.8	0.3	-0.62	-0.61	0	0	0	0	0	0
7/1/2024 8:31	42002	MNVL_T2	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
7/1/2024 8:31	42001	MNVL_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
7/1/2024 8:31	25402	LAHA_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
7/1/2024 8:32	13501	MCMI_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
7/1/2024 8:32	42001	MNVL_T2	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
7/1/2024 8:32	13503	MCMI_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
7/1/2024 8:32	13502	MCMI_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/1/2024 8:32	42001	MNVL_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
7/1/2024 8:33	52002	LING_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/1/2024 8:33	55002	NEWP_T1	6	6	0	1.05	1.17	0.12	-0.19	-0.19	0	0	0	0	0	0
7/1/2024 8:33	52004	LING_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
7/1/2024 8:34	55002	NEWP_T1	6	6	0	1.05	1.17	0.12	-0.19	-0.19	0	0	0	0	0	0
7/1/2024 8:35	55002	NEWP_T1	6	6	0	1.05	1.17	0.12	-0.19	-0.19	0	0	0	0	0	0
7/1/2024 8:36	67401	WAKE_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
7/1/2024 8:36	67402	WAKE_T2	0	0	0	0	0	0	0.52	0.54	1	1	0	600	600	0
7/1/2024 8:36	59101	WALK_T2	1	2	1	1.4	0.55	-0.85	1.71	1.95	1	1	0	600	600	0
7/1/2024 8:37	67402	WAKE_T2	0	0	0	0	0	0	0.52	0.54	1	1	0	600	600	0
7/1/2024 8:37	14404	SSLA_T1	1	2	1	6.2	3.15	-3.05	0	0	0	0	0	0	0	0
7/1/2024 8:37	14403	SSLA_T1	0	0	0	0	0	0	0.96	0.98	0	0	0	0	0	0
7/1/2024 8:37	67401	WAKE_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
7/1/2024 8:38	14404	SSLA_T1	1	2	1	6.2	3.15	-3.05	0.04	0.05	0	0	0	0	0	0
7/1/2024 8:38	58001	WCAR_T1	4	4	0	0.85	1.23	0.38	0	0	0	0	0	0	0	0
7/1/2024 8:38	58003	WCAR_T1	1	10	9	1.8	0.33	-1.47	0.19	0.18	2	2	0	1200	1200	0
7/1/2024 8:39	24801	VALM_T1	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
7/1/2024 8:41	58002	WCAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 8:41	67605	WARW_T1	13	20	7	0.5	0.59	0.09	-0.87	-0.86	0	0	0	0	0	0
7/1/2024 8:41	62102	ELAN_T1	1	1	0	0.1	0.6	0.5	0.79	0.84	0	0	0	0	0	0
7/1/2024 8:41	59101	WALK_T2	1	2	1	1.4	0.55	-0.85	1.95	1.64	1	1	0	600	600	0
7/1/2024 8:41	58006	WCAR_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
7/1/2024 8:42	52402	GRPA_T2	2	3	1	0.1	0.17	0.07	-0.78	-0.78	0	0	0	0	0	0
7/1/2024 8:43	53903	HALI_T2	2	2	0	1.8	1.8	0	0	0	0	0	0	0	0	0
7/1/2024 8:43	67604	WARW_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/1/2024 8:43	53901	HALI_T2	1	1	0	1.4	1.6	0.2	-2.72	-2.71	0	0	0	0	0	0
7/1/2024 8:43	53902	HALI_T2	1	1	0	5.4	5.8	0.4	0	0	0	0	0	0	0	0
7/1/2024 8:43	52402	GRPA_T2	2	3	1	0.1	0.17	0.07	-0.78	-0.78	0	0	0	0	0	0
7/1/2024 8:43	67605	WARW_T1	13	20	7	0.5	0.59	0.09	0	0	0	0	0	0	0	0
7/1/2024 8:44	53902	HALI_T2	1	1	0	5.4	5.8	0.4	0	0	0	0	0	0	0	0
7/1/2024 8:44	53901	HALI_T2	1	1	0	1.4	1.6	0.2	-2.72	-2.71	0	0	0	0	0	0
7/1/2024 8:44	53903	HALI_T2	2	2	0	1.8	1.8	0	-0.09	-0.09	0	0	0	0	0	0
7/1/2024 8:45	66902	SHIL_T2	0	68	68	0	0.14	0.14	0	0	0	0	0	0	0	0
7/1/2024 8:45	66903	SHIL_T2	0	10	10	0	0.13	0.13	-0.76	-0.75	0	0	0	0	0	0
7/1/2024 8:45	66901	SHIL_T2	1	72	71	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
7/1/2024 8:45	53903	HALI_T2	2	8	6	1.8	0.86	-0.94	-0.09	-0.09	0	0	0	0	0	0
7/1/2024 8:45	53901	HALI_T2	1	1	0	1.6	1.4	-0.2	-4.09	-4.07	0	0	0	0	0	0
7/1/2024 8:45	53902	HALI_T2	1	2	1	5.4	3	-2.4	0	0	0	0	0	0	0	0
7/1/2024 8:46	53903	HALI_T2	2	8	6	1.8	0.86	-0.94	-0.09	-0.09	0	0	0	0	0	0
7/1/2024 8:46	53902	HALI_T2	1	2	1	5.4	3	-2.4	0	0	0	0	0	0	0	0
7/1/2024 8:46	53901	HALI_T2	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
7/1/2024 8:47	53903	HALI_T2	2	8	6	1.8	0.86	-0.94	-0.09	-0.09	0	0	0	0	0	0
7/1/2024 8:47	53901	HALI_T2	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
7/1/2024 8:47	53902	HALI_T2	1	2	1	5.4	3	-2.4	0	0	0	0	0	0	0	0
7/1/2024 8:47	45702	LIND_T2	1	1	0	0.8	0.4	-0.4	-1.49	-1.58	0	0	0	0	0	0
7/1/2024 8:48	65004	NEFF_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
7/1/2024 8:48	65003	NEFF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/1/2024 8:48	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 8:49	58102	NEKI_T1	2	1	-1	0.95	0.5	-0.45	-0.82	0.45	0	0	0	0	0	0
7/1/2024 8:50	67605	WARW_T1	14	21	7	0.5	0.59	0.09	-0.87	-0.86	0	0	0	0	0	0
7/1/2024 8:51	56503	ROCK_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/1/2024 8:51	56501	ROCK_T2	12	21	9	0.3	0.23	-0.07	-0.5	-0.49	0	0	0	0	0	0
7/1/2024 8:52	67605	WARW_T1	14	21	7	0.5	0.59	0.09	-0.86	-0.85	0	0	0	0	0	0
7/1/2024 8:53	56503	ROCK_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/1/2024 8:53	56501	ROCK_T2	12	21	9	0.3	0.23	-0.07	-0.49	-0.48	0	0	0	0	0	0
7/1/2024 8:54	20402	ASHF_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/1/2024 8:54	24201	PROV_T3	1	1	0	6.1	6	-0.1	-1.25	-1.24	1	1	0	1200	1200	0
7/1/2024 8:54	24204	PROV_T3	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
7/1/2024 8:54	20403	ASHF_T2	0	2	2	0	0.6	0.6	1.24	1.59	0	0	0	0	0	0
7/1/2024 8:54	20401	ASHF_T2	6	6	0	0.38	0.28	-0.1	0	0	0	0	0	0	0	0
7/1/2024 8:55	20402	ASHF_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/1/2024 8:55	56501	ROCK_T2	12	21	9	0.3	0.23	-0.07	-0.49	-0.48	0	0	0	0	0	0
7/1/2024 8:55	56503	ROCK_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/1/2024 8:55	20403	ASHF_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
7/1/2024 8:55	20401	ASHF_T2	6	6	0	0.38	0.28	-0.1	-0.07	-0.06	0	0	0	0	0	0
7/1/2024 8:56	56503	ROCK_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/1/2024 8:56	20401	ASHF_T2	6	6	0	0.38	0.28	-0.1	-0.07	-0.06	0	0	0	0	0	0
7/1/2024 8:56	11904	ETEX_T2	0	1	1	0	0.4	0.4	0.32	0.33	0	0	0	0	0	0
7/1/2024 8:56	20402	ASHF_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/1/2024 8:56	56501	ROCK_T2	12	21	9	0.3	0.23	-0.07	-0.49	-0.48	0	0	0	0	0	0
7/1/2024 8:56	11901	ETEX_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 8:56	20403	ASHF_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
7/1/2024 8:58	63401	HONY_T1	0	0	0	0	0	0	1.22	1.13	0	0	0	0	0	0
7/1/2024 9:01	11901	ETEX_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/1/2024 9:01	11904	ETEX_T2	1	1	0	0.2	0.4	0.2	0.32	0.33	0	0	0	0	0	0
7/1/2024 9:02	63401	HONY_T1	0	1	1	0	0	0	1.22	1.13	0	0	0	0	0	0
7/1/2024 9:03	52503	PROG_T2	0	0	0	0	0	0	-0.55	-0.54	1	1	0	900	900	0
7/1/2024 9:03	63401	HONY_T1	0	1	1	0	0	0	1.22	1.13	0	0	0	0	0	0
7/1/2024 9:05	52503	PROG_T2	0	0	0	0	0	0	-0.55	-0.54	1	1	0	900	900	0
7/1/2024 9:06	14801	TREI_T2	2	1	-1	0.2	0.2	0	0.58	0.61	0	0	0	0	0	0
7/1/2024 9:06	52503	PROG_T2	0	0	0	0	0	0	-0.55	-0.54	1	1	0	900	900	0
7/1/2024 9:07	43801	WATS_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/1/2024 9:07	43304	WATS_T2	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
7/1/2024 9:08	15001	BLMO_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/1/2024 9:10	56802	BENV_T2	1	1	0	0.9	0.7	-0.2	-0.58	-0.57	0	0	0	0	0	0
7/1/2024 9:10	15001	BLMO_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/1/2024 9:11	20401	ASHF_T2	6	3	-3	0.28	0.13	-0.15	0	0	0	0	0	0	0	0
7/1/2024 9:11	11904	ETEX_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/1/2024 9:11	43301	WATS_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/1/2024 9:11	43304	WATS_T2	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
7/1/2024 9:11	20403	ASHF_T2	1	1	0	0.6	0	-0.6	1.59	1.55	0	0	0	0	0	0
7/1/2024 9:11	11901	ETEX_T2	1	1	0	0.1	0.1	0	0.58	0.52	0	0	0	0	0	0
7/1/2024 9:12	15001	BLMO_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/1/2024 9:12	56802	BENV_T2	1	1	0	0.9	0.7	-0.2	-1.17	-1.14	0	0	0	0	0	0
7/1/2024 9:12	20403	ASHF_T2	1	1	0	0.6	0	-0.6	1.59	1.55	0	0	0	0	0	0
7/1/2024 9:12	20401	ASHF_T2	6	3	-3	0.28	0.13	-0.15	0	0	0	0	0	0	0	0
7/1/2024 9:13	46802	HEPB_T1	1	1	0	1.1	1	-0.1	-0.18	-0.17	0	0	0	0	0	0
7/1/2024 9:15	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 9:16	54502	ENOL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/1/2024 9:16	54505	ENOL_T2	1	1	0	0.5	0.5	0	-1.25	-1.24	1	1	0	600	600	0
7/1/2024 9:18	54502	ENOL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/1/2024 9:18	54505	ENOL_T2	1	1	0	0.5	0.5	0	-1.25	-1.24	1	1	0	600	600	0
7/1/2024 9:19	21203	ECAR_T1	3	7	4	0.3	0.26	-0.04	0.77	0.9	0	0	0	0	0	0
7/1/2024 9:23	67503	WEWI_T2	0	0	0	0	0	0	0.13	0.04	0	0	0	0	0	0
7/1/2024 9:23	67702	WERN_T2	1	0	-1	0.1	0	-0.1	0	0.01	0	0	0	0	0	0
7/1/2024 9:23	67701	WERN_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/1/2024 9:23	67703	WERN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/1/2024 9:23	67502	WEWI_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
7/1/2024 9:24	56503	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/1/2024 9:24	67502	WEWI_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
7/1/2024 9:24	56504	ROCK_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
7/1/2024 9:24	67503	WEWI_T2	0	0	0	0	0	0	0.26	0.09	0	0	0	0	0	0
7/1/2024 9:24	56501	ROCK_T2	20	5	-15	0.23	0.38	0.15	-0.4	-0.39	0	0	0	0	0	0
7/1/2024 9:25	67703	WERN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/1/2024 9:25	67702	WERN_T2	1	0	-1	0.1	0	-0.1	0	0.01	0	0	0	0	0	0
7/1/2024 9:25	67701	WERN_T2	1	0	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/1/2024 9:26	60801	BUCK_T1	2	1	-1	0.25	0.2	-0.05	0.07	0.29	0	0	0	0	0	0
7/1/2024 9:26	60803	BUCK_T1	14	12	-2	0.24	0.18	-0.06	0	0	0	0	0	0	0	0
7/1/2024 9:35	41901	REED_T1	2	9	7	0.15	0.19	0.04	0	0	0	0	0	0	0	0
7/1/2024 9:35	41902	REED_T1	0	0	0	0	0	0	1.17	1.19	0	0	0	0	0	0
7/1/2024 9:36	57103	SPHI_T2	0	1	1	0	0.1	0.1	-1.15	-1.03	0	0	0	0	0	0
7/1/2024 9:36	57101	SPHI_T2	6	6	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/1/2024 9:36	57106	SPHI_T2	3	3	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
7/1/2024 9:36	57104	SPHI_T2	2	3	1	4.85	2.17	-2.68	0	0	0	0	0	0	0	0
7/1/2024 9:37	66504	SMAN_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
7/1/2024 9:37	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 9:37	41902	REED_T1	0	0	0	0	0	0	1.19	1.05	0	0	0	0	0	0
7/1/2024 9:37	43302	WATS_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 9:37	41901	REED_T1	2	9	7	0.15	0.19	0.04	0	0	0	0	0	0	0	0
7/1/2024 9:37	43301	WATS_T2	1	1	0	0.3	0.6	0.3	-0.54	-0.53	1	1	0	900	900	0
7/1/2024 9:38	66504	SMAN_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
7/1/2024 9:38	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 9:39	60803	BUCK_T1	12	1	-11	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
7/1/2024 9:39	60801	BUCK_T1	1	0	-1	0.2	0	-0.2	0.29	0.31	0	0	0	0	0	0
7/1/2024 9:41	20401	ASHF_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
7/1/2024 9:41	20403	ASHF_T2	0	0	0	0	0	0	1.62	1.39	0	0	0	0	0	0
7/1/2024 9:42	14601	SWHI_T1	0	0	0	0	0	0	-0.75	-1.51	0	0	0	0	0	0
7/1/2024 9:44	62106	ELAN_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
7/1/2024 9:44	63804	HEMP_T1	1	1	0	6.9	6.8	-0.1	1.35	1.43	0	0	0	0	0	0
7/1/2024 9:44	29402	BELT_T1	1	2	1	7.8	4.2	-3.6	0	0	0	0	0	0	0	0
7/1/2024 9:44	29401	BELT_T1	0	1	1	0	0.2	0.2	0	0	1	1	0	900	900	0
7/1/2024 9:44	62102	ELAN_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/1/2024 9:46	65503	MOJO_T2	1	2	1	0.2	0.25	0.05	-0.58	-0.59	1	1	0	900	900	0
7/1/2024 9:46	60803	BUCK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/1/2024 9:46	60801	BUCK_T1	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
7/1/2024 9:47	65503	MOJO_T2	1	2	1	0.2	0.25	0.05	-0.58	-0.59	1	1	0	900	900	0
7/1/2024 9:49	43202	MVIL_T2	1	0	-1	0.2	0	-0.2	-1.2	-1.18	0	0	0	0	0	0
7/1/2024 9:49	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 9:50	43202	MVIL_T2	1	0	-1	0.2	0	-0.2	-0.6	-0.59	0	0	0	0	0	0
7/1/2024 9:50	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 9:51	67203	TEHI_T1	3	4	1	0.53	0.37	-0.16	2.36	2.27	3	3	0	2100	2100	0
7/1/2024 9:51	67201	TEHI_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/1/2024 9:52	60504	NMAN_T2	2	3	1	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
7/1/2024 9:52	60502	NMAN_T2	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
7/1/2024 9:52	60501	NMAN_T2	3	4	1	5.47	4.4	-1.07	0	0	0	0	0	0	0	0
7/1/2024 9:53	67502	WEWI_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
7/1/2024 9:53	16302	ALPA_T2	0	1	1	0	0.1	0.1	1.04	1.03	0	0	0	0	0	0
7/1/2024 9:53	67503	WEWI_T2	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
7/1/2024 9:54	44301	BEAV_T2	1	1	0	0.6	1.4	0.8	1.14	1.19	2	2	0	1500	1500	0
7/1/2024 9:55	16302	ALPA_T2	0	1	1	0	0.1	0.1	1.04	1.03	0	0	0	0	0	0
7/1/2024 9:56	16301	ALPA_T2	0	1	1	0	0.1	0.1	1.04	1.03	0	0	0	0	0	0
7/1/2024 9:56	67503	WEWI_T2	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
7/1/2024 9:56	44301	BEAV_T2	1	1	0	0.6	1.4	0.8	3.43	3.57	6	6	0	4500	4500	0
7/1/2024 9:56	67502	WEWI_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
7/1/2024 9:57	29401	BELT_T1	0	1	1	0	0.2	0.2	0	0	1	1	0	900	900	0
7/1/2024 9:57	29402	BELT_T1	2	2	0	4.1	4.2	0.1	0	0	0	0	0	0	0	0
7/1/2024 9:57	16302	ALPA_T2	0	1	1	0	0.1	0.1	1.04	1.03	0	0	0	0	0	0
7/1/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
7/1/2024 10:00	63804	HEMP_T1	1	1	0	6.9	6.8	-0.1	1.43	1.36	0	0	0	0	0	0
7/1/2024 10:00	58706	ROSE_T2	1	1	0	0.1	0.3	0.2	0.68	0.69	1	1	0	600	600	0
7/1/2024 10:00	65003	NEFF_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/1/2024 10:00	64203	KINZ_T1	0	0	0	0	0	0	1.02	1.13	2	2	0	900	900	0
7/1/2024 10:00	58705	ROSE_T2	5	5	0	1.52	1.62	0.1	0	0	0	0	0	0	0	0
7/1/2024 10:00	40504	CRES_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/1/2024 10:00	57103	SPHI_T2	0	0	0	0	0	0	-1	-0.95	0	0	0	0	0	0
7/1/2024 10:00	58001	WCAR_T1	5	4	-1	0.86	0.73	-0.13	0	0	0	0	0	0	0	0
7/1/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	0.1	0.03	0	0	0	0	0	0
7/1/2024 10:00	52503	PROG_T2	0	0	0	0	0	0	-0.68	-0.89	2	2	0	1800	1800	0
7/1/2024 10:00	65004	NEFF_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
7/1/2024 10:00	52501	PROG_T1	0	1	1	0	0.2	0.2	0.24	0.27	1	1	0	300	300	0
7/1/2024 10:00	58003	WCAR_T1	10	1	-9	0.51	1.6	1.09	0.2	0.2	1	1	0	600	600	0
7/1/2024 10:00	40101	HUNT_T2	0	2	2	0	0.5	0.5	-0.09	-0.06	0	0	0	0	0	0
7/1/2024 10:00	40505	CRES_T1	4	4	0	3.68	3.75	0.07	0.56	0.57	0	0	0	0	0	0
7/1/2024 10:00	13503	MCMI_T2	3	3	0	0.27	0.3	0.03	0.02	0.03	0	0	0	0	0	0
7/1/2024 10:00	43202	MVIL_T2	0	0	0	0	0	0	-1.77	-1.75	0	0	0	0	0	0
7/1/2024 10:00	57104	SPHI_T2	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
7/1/2024 10:00	64204	KINZ_T1	1	2	1	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
7/1/2024 10:00	67605	WARW_T1	10	14	4	0.35	0.44	0.09	-0.85	-0.85	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/1/2024 10:00	67605	WARW_T1	10	14	4	0.35	0.44	0.09	-0.85	-0.85	0	0	0	0	0	0
7/1/2024 10:00	67605	WARW_T1	10	14	4	0.35	0.44	0.09	-0.85	-0.85	0	0	0	0	0	0
7/1/2024 10:00	67605	WARW_T1	10	14	4	0.35	0.44	0.09	-0.85	-0.85	0	0	0	0	0	0
7/1/2024 10:00	57101	SPHI_T2	6	6	0	0.5	0.42	-0.08	0	0	0	0	0	0	0	0
7/1/2024 10:00	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 10:00	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 10:00	57106	SPHI_T2	3	3	0	1.4	1.33	-0.07	0	0	0	0	0	0	0	0
7/1/2024 10:00	66504	SMAN_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
7/1/2024 10:00	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/1/2024 10:00	67502	WEWI_T2	1	2	1	0.9	0.35	-0.55	0.01	0.04	0	0	0	0	0	0
7/1/2024 10:00	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 10:02	67605	WARW_T1	10	14	4	0.35	0.44	0.09	0	0	0	0	0	0	0	0
7/1/2024 10:02	65003	NEFF_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/1/2024 10:02	65004	NEFF_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
7/1/2024 10:02	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/1/2024 10:02	67604	WARW_T1	0	0	0	0	0	0	0.23	0.3	0	0	0	0	0	0
7/1/2024 10:05	44201	POIN_T1	4	0	-4	0.1	0	-0.1	-2.08	-2.11	2	2	0	2100	2100	0
7/1/2024 10:06	15703	TANN_T2	1	1	0	5.7	5.9	0.2	0	0	0	0	0	0	0	0
7/1/2024 10:06	15702	TANN_T2	0	0	0	0	0	0	-0.23	-0.28	0	0	0	0	0	0
7/1/2024 10:06	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 10:06	65206	PRIN_T4	2	2	0	3.3	3.5	0.2	0	0	0	0	0	0	0	0
7/1/2024 10:06	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/1/2024 10:07	15702	TANN_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
7/1/2024 10:07	67502	WEWI_T2	1	2	1	0.9	0.35	-0.55	0.04	0.01	0	0	0	0	0	0
7/1/2024 10:07	14601	SWHI_T1	0	0	0	0	0	0	-1.6	-1.5	0	0	0	0	0	0
7/1/2024 10:07	15703	TANN_T2	1	1	0	5.7	5.9	0.2	0	0	0	0	0	0	0	0
7/1/2024 10:08	15702	TANN_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
7/1/2024 10:08	15703	TANN_T2	1	1	0	5.7	5.9	0.2	0	0	0	0	0	0	0	0
7/1/2024 10:08	14601	SWHI_T1	0	0	0	0	0	0	-1.6	-1.5	0	0	0	0	0	0
7/1/2024 10:08	52503	PROG_T2	0	0	0	0	0	0	-0.44	-0.4	1	1	0	900	900	0
7/1/2024 10:09	66504	SMAN_T2	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
7/1/2024 10:09	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 10:09	67502	WEWI_T2	1	2	1	0.9	0.35	-0.55	0.04	0.01	0	0	0	0	0	0
7/1/2024 10:09	43402	BENT_T1	6	3	-3	0.2	0.73	0.53	0.23	0.22	0	0	0	0	0	0
7/1/2024 10:09	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 10:09	14605	SWHI_T1	0	0	0	0	0	0	1.48	1.61	1	1	0	1200	1200	0
7/1/2024 10:10	58001	WCAR_T1	5	4	-1	0.86	0.73	-0.13	0	0	0	0	0	0	0	0
7/1/2024 10:10	58003	WCAR_T1	10	1	-9	0.51	1.6	1.09	0.4	0.41	2	2	0	1200	1200	0
7/1/2024 10:10	67503	WEWI_T2	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
7/1/2024 10:10	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/1/2024 10:10	67803	WLAN_T1	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
7/1/2024 10:10	29402	BELT_T1	2	1	-1	4.2	7.7	3.5	0	0	0	0	0	0	0	0
7/1/2024 10:10	29401	BELT_T1	1	1	0	0.2	0.1	-0.1	0	0	1	1	0	900	900	0
7/1/2024 10:10	67502	WEWI_T2	1	2	1	0.9	0.35	-0.55	0.04	0.01	0	0	0	0	0	0
7/1/2024 10:10	67605	WARW_T1	10	14	4	0.35	0.44	0.09	-1.7	-1.7	0	0	0	0	0	0
7/1/2024 10:10	67804	WLAN_T1	5	4	-1	0.3	0.35	0.05	-0.94	-0.92	0	0	0	0	0	0
7/1/2024 10:11	63304	GREE_T1	0	0	0	0	0	0	-0.12	0	0	0	0	0	0	0
7/1/2024 10:12	46203	DANV_T2	2	2	0	0.2	0.3	0.1	-3.72	-3.64	0	0	0	0	0	0
7/1/2024 10:12	46206	DANV_T2	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
7/1/2024 10:13	20601	GRWO_T2	0	0	0	0	0	0	0.52	0.46	0	0	0	0	0	0
7/1/2024 10:13	60803	BUCK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/1/2024 10:13	63304	GREE_T1	0	0	0	0	0	0	-0.12	0	0	0	0	0	0	0
7/1/2024 10:13	60801	BUCK_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
7/1/2024 10:13	63401	HONY_T1	0	0	0	0	0	0	1.23	1.21	0	0	0	0	0	0
7/1/2024 10:13	43402	BENT_T1	6	3	-3	0.2	0.73	0.53	0.12	0.11	0	0	0	0	0	0
7/1/2024 10:14	45702	LIND_T2	1	0	-1	0.1	0	-0.1	-1.53	-1.52	0	0	0	0	0	0
7/1/2024 10:14	20601	GRWO_T2	0	0	0	0	0	0	1.04	0.93	0	0	0	0	0	0
7/1/2024 10:15	64704	LITI_T1	0	1	1	0	0	0	0.41	0.52	1	1	0	600	600	0
7/1/2024 10:15	63401	HONY_T1	0	0	0	0	0	0	1.23	1.21	0	0	0	0	0	0
7/1/2024 10:16	65001	NEFF_T2	0	0	0	0	0	0	-0.19	-0.05	1	1	0	1200	1200	0
7/1/2024 10:16	65003	NEFF_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/1/2024 10:16	25402	LAHA_T2	0	0	0	0	0	0	-0.51	-0.2	0	0	0	0	0	0
7/1/2024 10:17	45702	LIND_T2	0	0	0	0	0	0	-1.53	-1.52	0	0	0	0	0	0
7/1/2024 10:17	40101	HUNT_T2	1	2	1	0.6	0.25	-0.35	-0.06	0.02	0	0	0	0	0	0
7/1/2024 10:17	20601	GRWO_T2	0	0	0	0	0	0	0.52	0.46	0	0	0	0	0	0
7/1/2024 10:17	63401	HONY_T1	0	0	0	0	0	0	1.23	1.21	0	0	0	0	0	0
7/1/2024 10:17	64101	REFR_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
7/1/2024 10:21	60501	NMAN_T2	3	4	1	5.4	4.23	-1.17	0	0	0	0	0	0	0	0
7/1/2024 10:21	67401	WAKE_T2	3	3	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/1/2024 10:21	55105	WERT_T1	0	0	0	0	0	0	-0.34	-0.32	1	1	0	900	900	0
7/1/2024 10:21	60504	NMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/1/2024 10:21	60502	NMAN_T2	0	0	0	0	0	0	0.1	0.21	0	0	0	0	0	0
7/1/2024 10:21	67402	WAKE_T2	0	0	0	0	0	0	1.28	1.34	2	2	0	1200	1200	0
7/1/2024 10:22	67605	WARW_T1	12	13	1	0.45	0.52	0.07	-0.85	-0.85	0	0	0	0	0	0
7/1/2024 10:22	24902	WHHA_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
7/1/2024 10:22	54505	ENOL_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
7/1/2024 10:22	67603	WARW_T1	1	1	0	0.2	0.3	0.1	0.14	0.14	0	0	0	0	0	0
7/1/2024 10:22	67401	WAKE_T2	3	3	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/1/2024 10:22	67402	WAKE_T2	0	0	0	0	0	0	0.64	0.67	1	1	0	600	600	0
7/1/2024 10:22	54504	ENOL_T2	0	1	1	0	0.9	0.9	-1.86	-1.79	1	1	0	600	600	0
7/1/2024 10:23	67203	TEHI_T1	4	4	0	0.35	0.38	0.03	2.19	2.42	3	3	0	2100	2100	0
7/1/2024 10:23	67201	TEHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/1/2024 10:24	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 10:24	56802	BENV_T2	1	3	2	0.6	0.3	-0.3	-0.52	-0.51	0	0	0	0	0	0
7/1/2024 10:24	43304	WATS_T2	0	0	0	0	0	0	0.33	-0.32	0	0	0	0	0	0
7/1/2024 10:25	67804	WLAN_T1	4	1	-3	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
7/1/2024 10:25	67601	WARW_T2	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
7/1/2024 10:25	56802	BENV_T2	1	3	2	0.6	0.3	-0.3	-0.52	-0.51	0	0	0	0	0	0
7/1/2024 10:25	67401	WAKE_T2	3	3	0	0.3	0.4	0.1	-0.59	-0.59	0	0	0	0	0	0
7/1/2024 10:25	67803	WLAN_T1	2	3	1	0.25	0.23	-0.02	-0.69	-0.68	0	0	0	0	0	0
7/1/2024 10:26	56802	BENV_T2	1	3	2	0.6	0.3	-0.3	-1.04	-1.01	0	0	0	0	0	0
7/1/2024 10:26	67804	WLAN_T1	4	1	-3	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
7/1/2024 10:26	67805	WLAN_T1	0	0	0	0	0	0	-0.95	-0.92	0	0	0	0	0	0
7/1/2024 10:26	62102	ELAN_T1	1	1	0	0.8	1.1	0.3	0.84	0.96	0	0	0	0	0	0
7/1/2024 10:26	67803	WLAN_T1	2	3	1	0.25	0.23	-0.02	-0.69	-0.68	0	0	0	0	0	0
7/1/2024 10:27	56802	BENV_T2	1	3	2	0.6	0.3	-0.3	-0.52	-0.51	0	0	0	0	0	0
7/1/2024 10:27	60802	BUCK_T2	4	5	1	0.18	0.18	0	0.37	0.53	0	0	0	0	0	0
7/1/2024 10:27	67605	WARW_T1	12	13	1	0.45	0.52	0.07	-0.85	-0.85	0	0	0	0	0	0
7/1/2024 10:27	67603	WARW_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/1/2024 10:29	67803	WLAN_T1	2	3	1	0.25	0.23	-0.02	-0.69	-0.68	0	0	0	0	0	0
7/1/2024 10:29	67804	WLAN_T1	4	1	-3	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
7/1/2024 10:30	40603	PIGR_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
7/1/2024 10:30	65502	MOJO_T2	0	0	0	0	0	0	-1	-0.84	1	1	0	900	900	0
7/1/2024 10:30	65503	MOJO_T2	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
7/1/2024 10:30	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 10:30	40601	PIGR_T1	41	30	-11	0.34	0.45	0.11	0.04	0.05	0	0	0	0	0	0
7/1/2024 10:32	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 10:32	40603	PIGR_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
7/1/2024 10:32	40601	PIGR_T1	41	30	-11	0.34	0.45	0.11	0.04	0.05	0	0	0	0	0	0
7/1/2024 10:33	52004	LING_T2	0	3	3	0	0.53	0.53	0.41	0.43	0	0	0	0	0	0
7/1/2024 10:33	40603	PIGR_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
7/1/2024 10:33	52002	LING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/1/2024 10:33	40601	PIGR_T1	41	30	-11	0.34	0.45	0.11	0.04	0.05	0	0	0	0	0	0
7/1/2024 10:33	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 10:34	65502	MOJO_T2	0	0	0	0	0	0	-1	-0.84	1	1	0	900	900	0
7/1/2024 10:34	40603	PIGR_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
7/1/2024 10:34	40601	PIGR_T1	41	30	-11	0.34	0.45	0.11	0	0	0	0	0	0	0	0
7/1/2024 10:34	65503	MOJO_T2	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
7/1/2024 10:34	40602	PIGR_T1	0	1	1	0	0	0	0.87	0.86	0	0	0	0	0	0
7/1/2024 10:35	44203	POIN_T2	0	0	0	0	0	0	-0.43	-0.42	2	2	0	2100	2100	0
7/1/2024 10:36	44701	MUNC_T2	0	1	1	0	0.1	0.1	-1.13	-1.16	0	0	0	0	0	0
7/1/2024 10:36	44201	POIN_T1	0	0	0	0	0	0	-2.19	-2.09	2	2	0	2100	2100	0
7/1/2024 10:37	67505	WEWI_T1	0	0	0	0	0	0	0.1	0.12	1	1	0	900	900	0
7/1/2024 10:37	67603	WARW_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/1/2024 10:37	67605	WARW_T1	13	14	1	0.44	0.52	0.08	-0.85	-0.85	0	0	0	0	0	0
7/1/2024 10:38	60801	BUCK_T1	0	1	1	0	0.2	0.2	0.34	0.35	0	0	0	0	0	0
7/1/2024 10:38	60803	BUCK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/1/2024 10:39	67505	WEWI_T1	0	0	0	0	0	0	0.1	0.12	1	1	0	900	900	0
7/1/2024 10:39	20403	ASHF_T2	0	1	1	0	0.2	0.2	1.67	1.72	0	0	0	0	0	0
7/1/2024 10:39	20401	ASHF_T2	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
7/1/2024 10:40	20401	ASHF_T2	2	2	0	0.45	0.2	-0.25	0.02	0.03	0	0	0	0	0	0
7/1/2024 10:40	67504	WEWI_T1	0	0	0	0	0	0	-0.02	-0.01	1	1	0	900	900	0
7/1/2024 10:40	20403	ASHF_T2	0	1	1	0	0.2	0.2	1.67	1.72	0	0	0	0	0	0
7/1/2024 10:41	62102	ELAN_T1	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
7/1/2024 10:41	20401	ASHF_T2	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
7/1/2024 10:41	20403	ASHF_T2	0	1	1	0	0.2	0.2	1.67	1.72	0	0	0	0	0	0
7/1/2024 10:41	62106	ELAN_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
7/1/2024 10:43	67803	WLAN_T1	2	2	0	0.25	0.15	-0.1	-1.36	-1.33	0	0	0	0	0	0
7/1/2024 10:43	24701	FLND_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
7/1/2024 10:43	67805	WLAN_T1	0	0	0	0	0	0	-0.92	-1	0	0	0	0	0	0
7/1/2024 10:43	67804	WLAN_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
7/1/2024 10:43	40101	HUNT_T2	2	2	0	0.4	0.2	-0.2	0.01	0.01	0	0	0	0	0	0
7/1/2024 10:44	52403	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 10:44	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 10:44	24702	FLND_T2	0	0	0	0	0	0	0.67	0.74	1	1	0	1200	1200	0
7/1/2024 10:44	14205	EALL_T2	0	0	0	0	0	0	0.01	0.11	0	0	0	0	0	0
7/1/2024 10:44	52402	GRPA_T2	0	0	0	0	0	0	-1.38	-1.36	0	0	0	0	0	0
7/1/2024 10:45	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 10:45	52403	GRPA_T2	1	5	4	0.2	0.4	0.2	0.3	0.32	0	0	0	0	0	0
7/1/2024 10:45	52402	GRPA_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
7/1/2024 10:46	12704	MACU_T1	0	0	0	0	0	0	-1.22	-1.21	1	1	0	600	600	0
7/1/2024 10:46	40802	EXCH_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
7/1/2024 10:46	63804	HEMP_T1	1	1	0	7.1	6.9	-0.2	1.39	1.39	0	0	0	0	0	0
7/1/2024 10:46	40801	EXCH_T2	0	3	3	0	0.53	0.53	-0.34	-0.31	1	1	0	1200	1200	0
7/1/2024 10:49	60504	NMAN_T2	2	2	0	0.3	0.25	-0.05	-0.07	-0.06	1	1	0	1200	1200	0
7/1/2024 10:49	60501	NMAN_T2	4	4	0	4.23	4.35	0.12	0	0	0	0	0	0	0	0
7/1/2024 10:49	57403	SPAN_T1	9	15	6	0.18	0.23	0.05	0.09	0.1	0	0	0	0	0	0
7/1/2024 10:49	12701	MACU_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
7/1/2024 10:49	12704	MACU_T1	0	0	0	0	0	0	-1.22	-1.21	1	1	0	600	600	0
7/1/2024 10:49	57401	SPAN_T1	3	5	2	1.83	1.12	-0.71	0	0	0	0	0	0	0	0
7/1/2024 10:49	52501	PROG_T1	0	0	0	0	0	0	0.24	0.27	1	1	0	300	300	0
7/1/2024 10:50	57403	SPAN_T1	9	15	6	0.18	0.23	0.05	0.09	0.1	0	0	0	0	0	0
7/1/2024 10:50	64101	REFR_T1	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/1/2024 10:50	57401	SPAN_T1	3	5	2	1.83	1.12	-0.71	0	0	0	0	0	0	0	0
7/1/2024 10:51	64101	REFR_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
7/1/2024 10:51	52501	PROG_T1	0	0	0	0	0	0	0.24	0.27	1	1	0	300	300	0
7/1/2024 10:52	40302	TAMA_T3	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
7/1/2024 10:52	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 10:52	64101	REFR_T1	0	0	0	0	0	0	0.98	1	0	0	0	0	0	0
7/1/2024 10:52	66701	STRA_T1	1	1	0	0.3	0.4	0.1	0.54	0.58	2	2	0	1200	1200	0
7/1/2024 10:53	64101	REFR_T1	0	0	0	0	0	0	0.65	0.67	0	0	0	0	0	0
7/1/2024 10:54	66701	STRA_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/1/2024 10:54	66703	STRA_T1	0	0	0	0	0	0	0.25	0.14	0	0	0	0	0	0
7/1/2024 10:55	58001	WCAR_T1	4	4	0	0.53	0.23	-0.3	0.95	0.96	0	0	0	0	0	0
7/1/2024 10:55	58003	WCAR_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
7/1/2024 10:55	60101	COCA_T1	1	1	0	0.8	0.7	-0.1	0.54	0.56	0	0	0	0	0	0
7/1/2024 10:57	60101	COCA_T1	1	1	0	0.8	0.7	-0.1	0.54	0.56	0	0	0	0	0	0
7/1/2024 10:58	50105	HARR_T3	6	7	1	6.07	6.17	0.1	0	0	0	0	0	0	0	0
7/1/2024 10:58	67804	WLAN_T1	1	4	3	0.2	0.33	0.13	-0.88	-0.87	0	0	0	0	0	0
7/1/2024 10:58	24104	EHAZ_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/1/2024 10:58	52403	GRPA_T2	1	5	4	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/1/2024 10:58	50107	HARR_T3	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
7/1/2024 10:58	24103	EHAZ_T1	0	1	1	0	0	0	-1.18	-1.15	0	0	0	0	0	0
7/1/2024 10:58	67803	WLAN_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
7/1/2024 10:58	24105	EHAZ_T1	4	4	0	5.78	5.78	0	0	0	0	0	0	0	0	0
7/1/2024 10:58	52401	GRPA_T2	0	1	1	0	0.1	0.1	-0.45	-0.44	0	0	0	0	0	0
7/1/2024 10:58	52402	GRPA_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
7/1/2024 10:58	50201	HARR_T3	0	0	0	0	0	0	-0.62	-0.62	1	1	0	1200	1200	0
7/1/2024 10:58	50103	HARR_T3	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/1/2024 10:59	50107	HARR_T3	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
7/1/2024 10:59	14604	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 10:59	50105	HARR_T3	6	7	1	6.07	6.17	0.1	0	0	0	0	0	0	0	0
7/1/2024 10:59	24103	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 10:59	14602	SWHI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/1/2024 10:59	24105	EHAZ_T1	4	4	0	5.78	5.78	0	0	0	0	0	0	0	0	0
7/1/2024 10:59	50103	HARR_T3	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/1/2024 10:59	50201	HARR_T3	0	0	0	0	0	0	-0.62	-0.62	1	1	0	1200	1200	0
7/1/2024 10:59	24104	EHAZ_T1	1	1	0	0.2	0.3	0.1	-0.84	-0.84	1	1	0	1200	1200	0
7/1/2024 10:59	14603	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 10:59	12801	MICK_T1	0	0	0	0	0	0	-0.5	-0.47	1	1	0	600	600	0
7/1/2024 11:03	57303	MOAL_T2	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
7/1/2024 11:03	12705	MACU_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
7/1/2024 11:03	57304	MOAL_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
7/1/2024 11:03	57306	MOAL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 11:03	57302	MOAL_T2	0	0	0	0	0	0	-1.43	-1.45	1	1	0	1200	1200	0
7/1/2024 11:03	12703	MACU_T2	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
7/1/2024 11:04	55003	NEWP_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
7/1/2024 11:05	16401	MOPO_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
7/1/2024 11:06	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 11:06	66703	STRA_T1	0	0	0	0	0	0	0.14	0.2	0	0	0	0	0	0
7/1/2024 11:06	66501	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/1/2024 11:06	66701	STRA_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/1/2024 11:06	57401	SPAN_T1	4	5	1	1.05	0.48	-0.57	-3.13	-3.32	4	4	0	2400	2400	0
7/1/2024 11:06	66502	SMAN_T2	1	1	0	0.3	0.6	0.3	0.61	0.54	0	0	0	0	0	0
7/1/2024 11:06	65901	SAKR_T2	1	1	0	7.1	7.5	0.4	-0.24	-0.26	1	1	0	900	900	0
7/1/2024 11:06	57403	SPAN_T1	15	14	-1	0.23	0.17	-0.06	0.1	0.1	0	0	0	0	0	0
7/1/2024 11:06	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 11:07	56501	ROCK_T2	5	7	2	0.46	0.47	0.01	-0.61	-0.58	0	0	0	0	0	0
7/1/2024 11:07	56503	ROCK_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/1/2024 11:07	57401	SPAN_T1	4	5	1	1.05	0.48	-0.57	-0.83	-0.87	1	1	0	600	600	0
7/1/2024 11:07	57403	SPAN_T1	15	14	-1	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
7/1/2024 11:08	56503	ROCK_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/1/2024 11:08	56501	ROCK_T2	5	7	2	0.46	0.47	0.01	-0.61	-0.58	0	0	0	0	0	0
7/1/2024 11:08	66201	SISP_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/1/2024 11:08	66203	SISP_T2	0	0	0	0	0	0	-0.08	-0.09	2	2	0	1800	1800	0
7/1/2024 11:09	56501	ROCK_T2	5	7	2	0.46	0.47	0.01	-0.61	-0.58	0	0	0	0	0	0
7/1/2024 11:09	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 11:09	66501	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/1/2024 11:09	56503	ROCK_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/1/2024 11:09	44301	BEAV_T2	2	1	-1	1.7	1.5	-0.2	2.4	2.19	4	4	0	3000	3000	0
7/1/2024 11:09	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 11:09	67303	WYOM_T2	0	1	1	0	0.2	0.2	-0.86	-0.89	0	0	0	0	0	0
7/1/2024 11:09	66502	SMAN_T2	1	1	0	0.3	0.6	0.3	0.61	0.54	0	0	0	0	0	0
7/1/2024 11:10	56503	ROCK_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/1/2024 11:10	56501	ROCK_T2	5	7	2	0.46	0.47	0.01	-0.31	-0.29	0	0	0	0	0	0
7/1/2024 11:10	67303	WYOM_T2	0	1	1	0	0.2	0.2	-0.86	-0.89	0	0	0	0	0	0
7/1/2024 11:11	56503	ROCK_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/1/2024 11:11	56501	ROCK_T2	5	7	2	0.46	0.47	0.01	-0.31	-0.29	0	0	0	0	0	0
7/1/2024 11:11	21203	ECAR_T1	0	1	1	0	0.5	0.5	0.95	0.87	0	0	0	0	0	0
7/1/2024 11:11	60101	COCA_T1	1	1	0	0.7	0.5	-0.2	0.56	0.57	0	0	0	0	0	0
7/1/2024 11:12	63804	HEMP_T1	1	1	0	7	6.9	-0.1	0	0	0	0	0	0	0	0
7/1/2024 11:12	63801	HEMP_T1	0	0	0	0	0	0	-0.23	-0.31	1	1	0	900	900	0
7/1/2024 11:13	60104	COCA_T2	0	8	8	0	0.67	0.67	0	0	0	0	0	0	0	0
7/1/2024 11:13	60103	COCA_T2	0	9	9	0	1.26	1.26	-0.12	-0.11	2	2	0	2100	2100	0
7/1/2024 11:13	40802	EXCH_T2	1	1	0	1	0.9	-0.1	0.17	0.21	0	0	0	0	0	0
7/1/2024 11:13	21901	HUMB_T1	0	0	0	0	0	0	-2.16	-2.15	0	0	0	0	0	0
7/1/2024 11:13	40801	EXCH_T2	3	2	-1	0.47	0.6	0.13	0	0	0	0	0	0	0	0
7/1/2024 11:13	63401	HONY_T1	0	0	0	0	0	0	1.19	1.23	0	0	0	0	0	0
7/1/2024 11:14	40801	EXCH_T2	3	2	-1	0.47	0.6	0.13	-0.26	-0.28	1	1	0	1200	1200	0
7/1/2024 11:14	52404	GRPA_T2	0	0	0	0	0	0	0.73	0.63	0	0	0	0	0	0
7/1/2024 11:14	52403	GRPA_T2	1	5	4	0.1	0.4	0.3	0.42	0.41	0	0	0	0	0	0
7/1/2024 11:14	52402	GRPA_T2	0	4	4	0	0.6	0.6	0	0	0	0	0	0	0	0
7/1/2024 11:14	40802	EXCH_T2	1	1	0	1	0.9	-0.1	0.17	0.21	0	0	0	0	0	0
7/1/2024 11:14	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/1/2024 11:15	40802	EXCH_T2	1	1	0	0.9	0.3	-0.6	0.17	0.21	0	0	0	0	0	0
7/1/2024 11:15	40801	EXCH_T2	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
7/1/2024 11:16	52004	LING_T2	4	6	2	1.1	0.92	-0.18	0.47	0.49	0	0	0	0	0	0
7/1/2024 11:16	52001	LING_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
7/1/2024 11:17	57303	MOAL_T2	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
7/1/2024 11:17	57306	MOAL_T2	1	1	0	0.1	0.1	0	-2.99	-2.98	1	1	0	1200	1200	0
7/1/2024 11:17	64204	KINZ_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
7/1/2024 11:17	64201	KINZ_T1	0	0	0	0	0	0	-0.22	-0.2	3	3	0	1500	1500	0
7/1/2024 11:17	57304	MOAL_T2	2	2	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/1/2024 11:18	44701	MUNC_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/1/2024 11:18	44703	MUNC_T2	0	0	0	0	0	0	0.91	0.93	0	0	0	0	0	0
7/1/2024 11:19	54505	ENOL_T2	0	0	0	0	0	0	-1.15	-1.14	1	1	0	600	600	0
7/1/2024 11:19	52004	LING_T2	4	6	2	1.1	0.92	-0.18	0.47	0.49	0	0	0	0	0	0
7/1/2024 11:19	41902	REED_T1	0	0	0	0	0	0	1.26	1.26	0	0	0	0	0	0
7/1/2024 11:19	52001	LING_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
7/1/2024 11:20	58401	MORO_T1	0	0	0	0	0	0	-0.79	-0.78	1	1	0	600	600	0
7/1/2024 11:22	41902	REED_T1	0	0	0	0	0	0	1.26	1.22	0	0	0	0	0	0
7/1/2024 11:24	61304	EARL_T1	0	0	0	0	0	0	-0.44	-0.31	1	1	0	600	600	0
7/1/2024 11:25	56801	BENV_T1	6	3	-3	0.3	0.3	0	0	0	0	0	0	0	0	0
7/1/2024 11:25	56803	BENV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 11:25	56802	BENV_T2	1	1	0	0.4	0.4	0	-0.93	-0.91	0	0	0	0	0	0
7/1/2024 11:26	44801	EDAN_T2	1	2	1	5.2	0.2	-5	0.7	0.71	0	0	0	0	0	0
7/1/2024 11:26	61306	EARL_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
7/1/2024 11:27	44801	EDAN_T2	1	2	1	5.2	0.2	-5	0.7	0.71	0	0	0	0	0	0
7/1/2024 11:27	46004	BERW_T2	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
7/1/2024 11:28	47001	HUGH_T2	3	3	0	6.7	6.93	0.23	0.04	0.05	0	0	0	0	0	0
7/1/2024 11:29	44801	EDAN_T2	1	2	1	5.2	0.2	-5	0.7	0.71	0	0	0	0	0	0
7/1/2024 11:29	12802	MICK_T1	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
7/1/2024 11:31	47001	HUGH_T2	3	3	0	6.93	6.87	-0.06	0.04	0.05	0	0	0	0	0	0
7/1/2024 11:31	12703	MACU_T2	0	1	1	0	0.1	0.1	-0.82	-0.81	0	0	0	0	0	0
7/1/2024 11:31	12705	MACU_T2	1	2	1	0.9	1.05	0.15	0	0	0	0	0	0	0	0
7/1/2024 11:32	14601	SWHI_T1	0	6	6	0	0.28	0.28	-2.04	-1.99	0	0	0	0	0	0
7/1/2024 11:32	14603	SWHI_T1	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
7/1/2024 11:33	59003	MIFF_T1	0	0	0	0	0	0	-1.14	-0.92	0	0	0	0	0	0
7/1/2024 11:33	44801	EDAN_T2	2	2	0	0.2	0	-0.2	0.7	0.71	0	0	0	0	0	0
7/1/2024 11:33	65904	SAKR_T2	0	3	3	0	0.13	0.13	-1.47	-1.49	3	3	0	1500	1500	0
7/1/2024 11:33	65901	SAKR_T2	1	1	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
7/1/2024 11:33	59001	MIFF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 11:34	53803	MBRG_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
7/1/2024 11:35	59003	MIFF_T1	0	0	0	0	0	0	-1.14	-0.92	0	0	0	0	0	0
7/1/2024 11:35	59001	MIFF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 11:36	14702	TREX_T2	0	0	0	0	0	0	1.02	1.02	0	0	0	0	0	0
7/1/2024 11:36	54506	ENOL_T2	0	0	0	0	0	0	0.26	0.22	1	1	0	600	600	0
7/1/2024 11:37	57401	SPAN_T1	3	3	0	0.1	2.77	2.67	-0.79	-0.73	1	1	0	600	600	0
7/1/2024 11:37	14702	TREX_T2	0	0	0	0	0	0	1.02	1.02	0	0	0	0	0	0
7/1/2024 11:37	57403	SPAN_T1	14	13	-1	0.17	0.18	0.01	0	0	0	0	0	0	0	0
7/1/2024 11:38	14603	SWHI_T1	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
7/1/2024 11:38	57401	SPAN_T1	3	3	0	0.1	2.77	2.67	-0.79	-0.73	1	1	0	600	600	0
7/1/2024 11:38	14601	SWHI_T1	0	6	6	0	0.28	0.28	-1.99	-1.95	0	0	0	0	0	0
7/1/2024 11:38	57403	SPAN_T1	14	13	-1	0.17	0.18	0.01	0	0	0	0	0	0	0	0
7/1/2024 11:38	44203	POIN_T2	0	3	3	0	0	0	-0.4	-0.3	2	2	0	2100	2100	0
7/1/2024 11:39	57403	SPAN_T1	14	13	-1	0.17	0.18	0.01	0	0	0	0	0	0	0	0
7/1/2024 11:39	57401	SPAN_T1	3	3	0	0.1	2.77	2.67	-0.79	-0.73	1	1	0	600	600	0
7/1/2024 11:39	60301	TWVA_T2	0	0	0	0	0	0	-1.31	-1.34	1	1	0	1200	1200	0
7/1/2024 11:40	67805	WLAN_T1	0	0	0	0	0	0	-0.95	-0.98	0	0	0	0	0	0
7/1/2024 11:40	67803	WLAN_T1	2	5	3	0.35	0.26	-0.09	0	0	0	0	0	0	0	0
7/1/2024 11:40	57401	SPAN_T1	3	3	0	0.1	2.77	2.67	-0.79	-0.73	1	1	0	600	600	0
7/1/2024 11:40	67804	WLAN_T1	1	3	2	0.4	0.53	0.13	0	0	0	0	0	0	0	0
7/1/2024 11:40	57403	SPAN_T1	14	13	-1	0.17	0.18	0.01	0	0	0	0	0	0	0	0
7/1/2024 11:40	61306	EARL_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
7/1/2024 11:42	57403	SPAN_T1	14	13	-1	0.17	0.18	0.01	0	0	0	0	0	0	0	0
7/1/2024 11:42	57401	SPAN_T1	3	3	0	0.1	2.77	2.67	-0.79	-0.73	1	1	0	600	600	0
7/1/2024 11:43	63501	HEID_TBK1-2	4	3	-1	0.33	0.53	0.2	0.4	0.36	1	1	0	900	900	0
7/1/2024 11:43	21203	ECAR_T1	1	2	1	0.5	0.1	-0.4	0.87	0.86	0	0	0	0	0	0
7/1/2024 11:43	59202	THOM_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/1/2024 11:43	61301	EARL_T1	0	0	0	0	0	0	-1.31	-1.31	2	2	0	1800	1800	0
7/1/2024 11:44	40601	PIGR_T1	30	80	50	0.41	0.26	-0.15	0	0	0	0	0	0	0	0
7/1/2024 11:44	40602	PIGR_T1	0	0	0	0	0	0	1.05	1.02	0	0	0	0	0	0
7/1/2024 11:44	40603	PIGR_T1	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
7/1/2024 11:47	62105	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/1/2024 11:47	62102	ELAN_T1	1	1	0	0.2	1.3	1.1	0.96	0.93	0	0	0	0	0	0
7/1/2024 11:47	26402	INOR_T1	0	0	0	0	0	0	-1.64	-1.69	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/1/2024 11:47	26401	INOR_T1	1	4	3	7.2	3.23	-3.97	0	0	0	0	0	0	0	0
7/1/2024 11:48	55101	WERT_T1	0	0	0	0	0	0	-1.1	-1.15	3	3	0	2400	2400	0
7/1/2024 11:49	14403	SSLA_T1	0	3	3	0	0.3	0.3	1.12	0.9	0	0	0	0	0	0
7/1/2024 11:49	52501	PROG_T1	0	2	2	0	0.2	0.2	0.28	0.27	1	1	0	300	300	0
7/1/2024 11:49	14401	SSLA_T1	1	8	7	5	1	-4	0	0	0	0	0	0	0	0
7/1/2024 11:49	14402	SSLA_T1	0	13	13	0	0.43	0.43	0	0	0	0	0	0	0	0
7/1/2024 11:49	14401	SSLA_T1	1	5	4	0.1	0.62	0.52	0	0	0	0	0	0	0	0
7/1/2024 11:50	51004	NHAR_T1	2	2	0	3.4	3.25	-0.15	-1.63	-1.63	0	0	0	0	0	0
7/1/2024 11:50	55102	WERT_T2	0	0	0	0	0	0	-1.68	-1.6	2	2	0	1200	1200	0
7/1/2024 11:50	66103	REAM_T2	0	0	0	0	0	0	1.23	1.14	1	1	0	1200	1200	0
7/1/2024 11:50	51002	NHAR_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/1/2024 11:51	67401	WAKE_T2	5	8	3	0.68	0.55	-0.13	0	0	0	0	0	0	0	0
7/1/2024 11:51	54506	ENOL_T2	0	0	0	0	0	0	0.22	0.22	1	1	0	600	600	0
7/1/2024 11:51	67402	WAKE_T2	0	0	0	0	0	0	0.7	0.7	1	1	0	600	600	0
7/1/2024 11:52	14401	SSLA_T1	1	5	4	0.1	0.62	0.52	0	0	0	0	0	0	0	0
7/1/2024 11:52	14404	SSLA_T1	1	8	7	5	1	-4	0	0	0	0	0	0	0	0
7/1/2024 11:52	14403	SSLA_T1	0	3	3	0	0.3	0.3	0.9	1.04	0	0	0	0	0	0
7/1/2024 11:52	43402	BENT_T1	20	5	-15	0.42	0.64	0.22	0.19	0.21	0	0	0	0	0	0
7/1/2024 11:52	55101	WERT_T1	0	0	0	0	0	0	-2.3	-2.37	6	6	0	4800	4800	0
7/1/2024 11:52	14402	SSLA_T1	0	13	13	0	0.43	0.43	0	0	0	0	0	0	0	0
7/1/2024 11:53	55101	WERT_T1	0	0	0	0	0	0	-2.3	-2.37	6	6	0	4800	4800	0
7/1/2024 11:53	66701	STRA_T1	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
7/1/2024 11:53	66703	STRA_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
7/1/2024 11:54	56801	BENV_T1	2	5	3	0.15	0.24	0.09	0.01	0.02	0	0	0	0	0	0
7/1/2024 11:54	56803	BENV_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
7/1/2024 11:54	56802	BENV_T2	1	1	0	0.4	0.7	0.3	-0.44	-0.43	0	0	0	0	0	0
7/1/2024 11:54	43402	BENT_T1	20	5	-15	0.42	0.64	0.22	0.19	0.21	0	0	0	0	0	0
7/1/2024 11:55	61102	BERK_T5	0	0	0	0	0	0	0.1	0.18	1	1	0	300	300	0
7/1/2024 11:55	56803	BENV_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
7/1/2024 11:55	61101	BERK_T5	2	4	2	0.25	0.37	0.12	0	0	0	0	0	0	0	0
7/1/2024 11:55	56801	BENV_T1	2	5	3	0.15	0.24	0.09	0.03	0.05	0	0	0	0	0	0
7/1/2024 11:56	56803	BENV_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
7/1/2024 11:56	56801	BENV_T1	2	5	3	0.15	0.24	0.09	0.03	0.05	0	0	0	0	0	0
7/1/2024 11:57	63305	GREE_T1	0	0	0	0	0	0	-1.66	-1.6	1	1	0	900	900	0
7/1/2024 11:57	63306	GREE_T1	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
7/1/2024 11:57	56803	BENV_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
7/1/2024 11:57	56801	BENV_T1	2	5	3	0.15	0.24	0.09	0.04	0.07	0	0	0	0	0	0
7/1/2024 11:58	56801	BENV_T1	2	5	3	0.15	0.24	0.09	0.01	0.02	0	0	0	0	0	0
7/1/2024 11:58	56803	BENV_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
7/1/2024 11:59	63305	GREE_T1	0	0	0	0	0	0	-1.66	-1.6	1	1	0	900	900	0
7/1/2024 11:59	63306	GREE_T1	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
7/1/2024 12:01	63501	HEID_TBK1-2	2	1	-1	0.4	0.6	0.2	0.36	0.43	1	1	0	900	900	0
7/1/2024 12:02	60502	NMAN_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
7/1/2024 12:02	60501	NMAN_T2	3	3	0	4.9	4.6	-0.3	0	0	0	0	0	0	0	0
7/1/2024 12:02	60504	NMAN_T2	2	3	1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/1/2024 12:02	45801	HEGI_T1	0	0	0	0	0	0	0.22	0.27	1	1	0	900	900	0
7/1/2024 12:03	58402	MORO_T1	0	0	0	0	0	0	-0.72	-0.71	3	3	0	2400	2400	0
7/1/2024 12:03	40902	JESH_T1	0	0	0	0	0	0	-0.56	-0.57	2	2	0	1200	1200	0
7/1/2024 12:03	40901	JESH_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
7/1/2024 12:03	55002	NEWP_T1	8	11	3	0.68	0.99	0.31	0	0	0	0	0	0	0	0
7/1/2024 12:03	64101	REFR_T1	2	1	-1	0.45	0.2	-0.25	0.15	0.15	0	0	0	0	0	0
7/1/2024 12:03	55001	NEWP_T1	3	2	-1	0.73	0.5	-0.23	-0.09	-0.04	0	0	0	0	0	0
7/1/2024 12:04	64101	REFR_T1	2	1	-1	0.45	0.2	-0.25	0.15	0.15	0	0	0	0	0	0
7/1/2024 12:04	26401	INOR_T1	3	1	-2	3.23	7.6	4.37	1.25	0.75	0	0	0	0	0	0
7/1/2024 12:05	55001	NEWP_T1	3	2	-1	0.73	0.5	-0.23	-0.09	-0.04	0	0	0	0	0	0
7/1/2024 12:05	64101	REFR_T1	2	1	-1	0.45	0.2	-0.25	0.73	0.77	0	0	0	0	0	0
7/1/2024 12:05	55002	NEWP_T1	8	11	3	0.68	0.99	0.31	0	0	0	0	0	0	0	0
7/1/2024 12:06	59101	WALK_T2	1	1	0	0.1	0.2	0.1	1.93	1.99	1	0	-1	600	0	-600
7/1/2024 12:06	67605	WARW_T1	15	12	-3	0.56	0.55	-0.01	0	0	0	0	0	0	0	0
7/1/2024 12:06	58402	MORO_T1	0	0	0	0	0	0	-0.72	-0.71	3	3	0	2400	2400	0
7/1/2024 12:06	15602	NSTR_T2	1	1	0	0.3	0.1	-0.2	0.11	0.13	0	0	0	0	0	0
7/1/2024 12:06	59102	WALK_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/1/2024 12:06	67604	WARW_T1	0	0	0	0	0	0	0.65	0.9	0	0	0	0	0	0
7/1/2024 12:06	15603	NSTR_T2	9	7	-2	0.28	0.3	0.02	0	0	0	0	0	0	0	0
7/1/2024 12:06	67401	WAKE_T2	7	8	1	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
7/1/2024 12:06	67603	WARW_T1	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/1/2024 12:06	15203	SFAR_T2	3	1	-2	0.57	0.4	-0.17	-0.73	-0.71	0	0	0	0	0	0
7/1/2024 12:06	67402	WAKE_T2	0	0	0	0	0	0	0.7	0.71	1	1	0	600	600	0
7/1/2024 12:06	15601	NSTR_T2	8	4	-4	0.53	0.45	-0.08	0	0	0	0	0	0	0	0
7/1/2024 12:07	64101	REFR_T1	2	1	-1	0.45	0.2	-0.25	0.15	0.16	0	0	0	0	0	0
7/1/2024 12:08	15203	SFAR_T2	3	1	-2	0.57	0.4	-0.17	-0.73	-0.71	0	0	0	0	0	0
7/1/2024 12:09	66505	SMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
7/1/2024 12:09	56803	BENV_T1	1	3	2	0.1	0.47	0.37	0	0	0	0	0	0	0	0
7/1/2024 12:09	67402	WAKE_T2	0	0	0	0	0	0	0.7	0.71	1	1	0	600	600	0
7/1/2024 12:09	66502	SMAN_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/1/2024 12:09	66501	SMAN_T2	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
7/1/2024 12:09	67401	WAKE_T2	7	8	1	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
7/1/2024 12:09	56801	BENV_T1	5	4	-1	0.24	0.28	0.04	0.02	0.03	0	0	0	0	0	0
7/1/2024 12:09	66504	SMAN_T2	0	1	1	0	0	0	0.2	0.25	0	0	0	0	0	0
7/1/2024 12:10	10704	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 12:10	59101	WALK_T2	1	1	0	0.1	0.2	0.1	1.99	2.24	0	0	0	0	0	0
7/1/2024 12:10	59102	WALK_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/1/2024 12:10	65503	MOJO_T2	2	2	0	0.15	0.4	0.25	-0.52	-0.47	1	1	0	900	900	0
7/1/2024 12:10	10707	CATA_T2	1	1	0	0.3	0.3	0	0.7	0.57	0	0	0	0	0	0
7/1/2024 12:10	10701	CATA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/1/2024 12:11	60902	DONG_T2	0	0	0	0	0	0	1.16	1.15	0	0	0	0	0	0
7/1/2024 12:11	59101	WALK_T2	1	1	0	0.1	0.2	0.1	1.99	2.24	0	0	0	0	0	0
7/1/2024 12:11	59102	WALK_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/1/2024 12:11	60904	DONG_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
7/1/2024 12:12	56801	BENV_T1	5	4	-1	0.24	0.28	0.04	0.02	0.03	0	0	0	0	0	0
7/1/2024 12:12	56803	BENV_T1	1	3	2	0.1	0.47	0.37	0	0	0	0	0	0	0	0
7/1/2024 12:13	56801	BENV_T1	5	4	-1	0.24	0.28	0.04	0	0	0	0	0	0	0	0
7/1/2024 12:13	23203	HIRU_T2	1	30	29	0.1	0.19	0.09	0.17	0.17	0	0	0	0	0	0
7/1/2024 12:13	43402	BENT_T1	5	5	0	0.64	0.52	-0.12	0.21	0.24	0	0	0	0	0	0
7/1/2024 12:13	23201	HIRU_T2	2	65	63	0.55	0.18	-0.37	0	0	0	0	0	0	0	0
7/1/2024 12:13	23202	HIRU_T2	2	94	92	0.3	0.16	-0.14	0	0	0	0	0	0	0	0
7/1/2024 12:13	56803	BENV_T1	1	3	2	0.1	0.47	0.37	-0.63	-0.68	1	1	0	600	600	0
7/1/2024 12:14	63803	HEMP_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/1/2024 12:14	63804	HEMP_T1	1	1	0	7.3	7.1	-0.2	0	0	0	0	0	0	0	0
7/1/2024 12:14	43402	BENT_T1	5	5	0	0.64	0.52	-0.12	0.21	0.24	0	0	0	0	0	0
7/1/2024 12:14	63802	HEMP_T1	0	1	1	0	0	0	0.41	0.42	0	0	0	0	0	0
7/1/2024 12:14	63801	HEMP_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 12:15	40802	EXCH_T2	1	1	0	0.2	0.2	0	0.05	0	0	0	0	0	0	0
7/1/2024 12:15	40801	EXCH_T2	3	3	0	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
7/1/2024 12:16	45801	HEGI_T1	0	0	0	0	0	0	0.27	0.22	1	1	0	900	900	0
7/1/2024 12:17	64902	MILL_T2	0	0	0	0	0	0	-0.31	-0.3	1	1	0	900	900	0
7/1/2024 12:17	15803	WGAT_T1	141	16	-125	0.47	0.16	-0.31	4.11	4.02	0	0	0	0	0	0
7/1/2024 12:17	15801	WGAT_T1	701	265	-436	0.61	0.34	-0.27	0	0	0	0	0	0	0	0
7/1/2024 12:18	42902	MIDD_T2	3	3	0	0.5	0.43	-0.07	0.49	0.46	0	0	0	0	0	0
7/1/2024 12:18	42903	MIDD_T2	2	2	0	1.45	1.8	0.35	0	0	0	0	0	0	0	0
7/1/2024 12:18	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 12:19	42902	MIDD_T2	3	3	0	0.5	0.43	-0.07	0.49	0.46	0	0	0	0	0	0
7/1/2024 12:19	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 12:19	64101	REFR_T1	0	1	1	0	0.6	0.6	0.15	0.16	0	0	0	0	0	0
7/1/2024 12:19	42903	MIDD_T2	2	2	0	1.45	1.8	0.35	0	0	0	0	0	0	0	0
7/1/2024 12:20	54601	SUMM_T2	0	0	0	0	0	0	0	0	2	2	0	2100	2100	0
7/1/2024 12:20	64101	REFR_T1	0	1	1	0	0.6	0.6	0.31	0.32	0	0	0	0	0	0
7/1/2024 12:20	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 12:20	42902	MIDD_T2	3	3	0	0.5	0.43	-0.07	0.49	0.46	0	0	0	0	0	0
7/1/2024 12:20	42903	MIDD_T2	2	2	0	1.45	1.8	0.35	0	0	0	0	0	0	0	0
7/1/2024 12:21	14403	SSLA_T1	3	2	-1	0.3	2.3	2	0	0	0	0	0	0	0	0
7/1/2024 12:21	54601	SUMM_T2	0	0	0	0	0	0	0	0	2	2	0	2100	2100	0
7/1/2024 12:21	42902	MIDD_T2	3	3	0	0.5	0.43	-0.07	0.46	0.39	0	0	0	0	0	0
7/1/2024 12:21	14401	SSLA_T1	5	3	-2	0.58	0.4	-0.18	-0.07	-0.07	0	0	0	0	0	0
7/1/2024 12:21	14404	SSLA_T1	8	2	-6	1	2.75	1.75	0	0	0	0	0	0	0	0
7/1/2024 12:21	13704	SCHN_T2	1	1	0	0.5	0.6	0.1	0.39	0.39	0	0	0	0	0	0
7/1/2024 12:21	64101	REFR_T1	0	1	1	0	0.6	0.6	0.32	0.34	0	0	0	0	0	0
7/1/2024 12:21	42903	MIDD_T2	2	2	0	1.45	1.8	0.35	0	0	0	0	0	0	0	0
7/1/2024 12:21	13701	SCHN_T2	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
7/1/2024 12:21	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 12:21	14402	SSLA_T1	12	3	-9	0.46	0.7	0.24	0	0	0	0	0	0	0	0
7/1/2024 12:22	58003	WCAR_T1	3	4	1	0.57	0.65	0.08	0.24	0.24	1	1	0	600	600	0
7/1/2024 12:22	65904	SAKR_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
7/1/2024 12:22	54601	SUMM_T2	0	0	0	0	0	0	0	0	4	4	0	4200	4200	0
7/1/2024 12:22	64101	REFR_T1	0	1	1	0	0.6	0.6	0.48	0.51	0	0	0	0	0	0
7/1/2024 12:22	65901	SAKR_T2	1	1	0	6.9	7.6	0.7	0	0	0	0	0	0	0	0
7/1/2024 12:22	65903	SAKR_T2	0	0	0	0	0	0	-0.64	-0.65	3	3	0	2100	2100	0
7/1/2024 12:22	58001	WCAR_T1	4	5	1	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
7/1/2024 12:23	28102	TWLA_T2	0	5	5	0	0.2	0.2	0.25	0.25	0	0	0	0	0	0
7/1/2024 12:23	54601	SUMM_T2	0	0	0	0	0	0	0	0	2	2	0	2100	2100	0
7/1/2024 12:24	60801	BUCK_T1	6	6	0	0.43	0.45	0.02	0.05	0.11	0	0	0	0	0	0
7/1/2024 12:24	60803	BUCK_T1	13	13	0	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
7/1/2024 12:26	60801	BUCK_T1	6	6	0	0.43	0.45	0.02	0.02	0.06	0	0	0	0	0	0
7/1/2024 12:26	60803	BUCK_T1	13	13	0	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
7/1/2024 12:26	42903	MIDD_T2	2	2	0	1.45	1.8	0.35	0	0	0	0	0	0	0	0
7/1/2024 12:26	42902	MIDD_T2	3	3	0	0.5	0.43	-0.07	0.46	0.39	0	0	0	0	0	0
7/1/2024 12:26	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 12:27	58003	WCAR_T1	3	4	1	0.57	0.65	0.08	0.24	0.24	1	1	0	600	600	0
7/1/2024 12:27	58001	WCAR_T1	4	5	1	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
7/1/2024 12:28	24702	FLND_T2	0	3	3	0	0.5	0.5	1	1.01	1	1	0	1200	1200	0
7/1/2024 12:29	40901	JESH_T1	1	1	0	2	1.9	-0.1	0	0	0	0	0	0	0	0
7/1/2024 12:29	40902	JESH_T1	0	0	0	0	0	0	-1.02	-1.01	3	3	0	1800	1800	0
7/1/2024 12:31	46803	HEPB_T2	1	1	0	0.6	0.8	0.2	0.63	0.65	0	0	0	0	0	0
7/1/2024 12:31	53501	EVIL_T2	4	2	-2	0.78	0.6	-0.18	0.13	0.14	1	1	0	600	600	0
7/1/2024 12:31	46801	HEPB_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
7/1/2024 12:32	58402	MORO_T1	0	0	0	0	0	0	-0.7	-0.69	3	3	0	2400	2400	0
7/1/2024 12:32	46801	HEPB_T2	2	2	0	0.55	0.45	-0.1	1.84	1.82	0	0	0	0	0	0
7/1/2024 12:32	16401	MOPO_T1	4	4	0	0.58	0.45	-0.13	0	0	0	0	0	0	0	0
7/1/2024 12:32	16402	MOPO_T1	2	1	-1	0.55	0.2	-0.35	0.11	0.26	0	0	0	0	0	0
7/1/2024 12:32	46803	HEPB_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/1/2024 12:32	58401	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 12:33	16406	MOPO_T1	0	0	0	0	0	0	1.21	1.23	0	0	0	0	0	0
7/1/2024 12:33	58401	MORO_T1	0	1	1	0	0.2	0.2	-0.73	-0.71	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/1/2024 12:33	16402	MOPO_T1	2	1	-1	0.55	0.2	-0.35	0.11	0.26	0	0	0	0	0	0
7/1/2024 12:33	16401	MOPO_T1	4	4	0	0.58	0.45	-0.13	0	0	0	0	0	0	0	0
7/1/2024 12:35	47402	PENS_T1	5	1	-4	1.48	0.2	-1.28	0	0	0	0	0	0	0	0
7/1/2024 12:35	47403	PENS_T1	6	1	-5	0.83	1.8	0.97	0	0	0	0	0	0	0	0
7/1/2024 12:35	47401	PENS_T1	2	5	3	1.1	0.64	-0.46	1.23	1.3	0	0	0	0	0	0
7/1/2024 12:36	47402	PENS_T1	5	1	-4	1.48	0.2	-1.28	0	0	0	0	0	0	0	0
7/1/2024 12:36	47401	PENS_T1	2	5	3	1.1	0.64	-0.46	1.3	0.14	0	0	0	0	0	0
7/1/2024 12:36	47403	PENS_T1	6	1	-5	0.83	1.8	0.97	0	0	0	0	0	0	0	0
7/1/2024 12:37	47402	PENS_T1	5	1	-4	1.48	0.2	-1.28	0	0	0	0	0	0	0	0
7/1/2024 12:37	47403	PENS_T1	6	1	-5	0.83	1.8	0.97	0	0	0	0	0	0	0	0
7/1/2024 12:37	47401	PENS_T1	2	5	3	1.1	0.64	-0.46	1.3	0.14	0	0	0	0	0	0
7/1/2024 12:39	47401	PENS_T1	2	5	3	1.1	0.64	-0.46	2.6	0.29	0	0	0	0	0	0
7/1/2024 12:39	60904	DONG_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/1/2024 12:39	60902	DONG_T2	0	2	2	0	0	0	1.13	1.12	0	0	0	0	0	0
7/1/2024 12:39	47403	PENS_T1	6	1	-5	0.83	1.8	0.97	0	0	0	0	0	0	0	0
7/1/2024 12:39	47402	PENS_T1	5	1	-4	1.48	0.2	-1.28	0	0	0	0	0	0	0	0
7/1/2024 12:40	44801	EDAN_T2	0	1	1	0	0	0	0.73	0.74	0	0	0	0	0	0
7/1/2024 12:42	44301	BEAV_T2	1	1	0	0.5	2	1.5	0.96	1.05	2	2	0	1500	1500	0
7/1/2024 12:42	60902	DONG_T2	0	2	2	0	0	0	1.13	1.12	0	0	0	0	0	0
7/1/2024 12:42	44302	BEAV_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/1/2024 12:42	60904	DONG_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/1/2024 12:43	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/1/2024 12:44	40602	PIGR_T1	1	0	-1	0.2	0	-0.2	0.9	0.91	0	0	0	0	0	0
7/1/2024 12:44	40601	PIGR_T1	106	75	-31	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
7/1/2024 12:44	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 12:45	12701	MACU_T1	0	1	1	0	0	0	0.38	0.38	0	0	0	0	0	0
7/1/2024 12:45	52001	LING_T1	0	1	1	0	0.2	0.2	0.46	0.47	0	0	0	0	0	0
7/1/2024 12:45	44801	EDAN_T2	1	0	0	0.2	0	-0.2	0.73	0.74	0	0	0	0	0	0
7/1/2024 12:45	22602	KIMB_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
7/1/2024 12:45	22601	KIMB_T1	1	1	0	1	1.6	0.6	0	0	0	0	0	0	0	0
7/1/2024 12:46	12701	MACU_T1	0	1	1	0	0	0	0.38	0.38	0	0	0	0	0	0
7/1/2024 12:46	44301	BEAV_T2	1	1	0	2.1	1.8	-0.3	0.96	1.05	2	2	0	1500	1500	0
7/1/2024 12:47	24201	PROV_T3	1	1	0	6.8	6.8	0	-1.08	-1.07	1	1	0	1200	1200	0
7/1/2024 12:47	55002	NEWP_T1	10	12	2	0.87	0.73	-0.14	-0.14	-0.14	0	0	0	0	0	0
7/1/2024 12:47	55001	NEWP_T1	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/1/2024 12:47	24204	PROV_T3	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
7/1/2024 12:47	44801	EDAN_T2	1	1	0	0.2	0	-0.2	0.73	0.74	0	0	0	0	0	0
7/1/2024 12:48	67605	WARW_T1	8	5	-3	0.46	0.62	0.16	-0.81	-0.77	0	0	0	0	0	0
7/1/2024 12:48	67603	WARW_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/1/2024 12:48	55001	NEWP_T1	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/1/2024 12:48	55002	NEWP_T1	10	12	2	0.87	0.73	-0.14	-0.14	-0.14	0	0	0	0	0	0
7/1/2024 12:49	55102	WERT_T2	0	0	0	0	0	0	-1.36	-1.31	2	2	0	1200	1200	0
7/1/2024 12:49	54505	ENOL_T2	0	0	0	0	0	0	-1.07	-1.06	1	1	0	600	600	0
7/1/2024 12:50	55002	NEWP_T1	10	12	2	0.87	0.73	-0.14	-0.14	-0.14	0	0	0	0	0	0
7/1/2024 12:50	55001	NEWP_T1	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/1/2024 12:50	28805	LAKE_T1	1	1	0	0.2	0.5	0.3	-0.16	-0.16	0	0	0	0	0	0
7/1/2024 12:50	64101	REFR_T1	1	2	1	0.6	0.9	0.3	0.17	0.18	0	0	0	0	0	0
7/1/2024 12:50	52004	LING_T2	4	4	0	0.5	0.58	0.08	0.51	0.51	0	0	0	0	0	0
7/1/2024 12:51	55001	NEWP_T1	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/1/2024 12:51	55002	NEWP_T1	10	12	2	0.87	0.73	-0.14	-0.14	-0.14	0	0	0	0	0	0
7/1/2024 12:51	49803	UNIV_T1	0	1	1	0	0.6	0.6	-0.67	-0.65	0	0	0	0	0	0
7/1/2024 12:52	64101	REFR_T1	1	2	1	0.6	0.9	0.3	0.18	0.19	0	0	0	0	0	0
7/1/2024 12:52	55002	NEWP_T1	10	12	2	0.87	0.73	-0.14	-0.28	-0.27	0	0	0	0	0	0
7/1/2024 12:52	55001	NEWP_T1	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/1/2024 12:53	55101	WERT_T1	0	0	0	0	0	0	-3.13	-3.21	6	6	0	4800	4800	0
7/1/2024 12:53	44301	BEAV_T2	1	1	0	2.1	1.8	-0.3	1.05	0.97	2	2	0	1500	1500	0
7/1/2024 12:53	49803	UNIV_T1	0	1	1	0	0.6	0.6	-0.67	-0.65	0	0	0	0	0	0
7/1/2024 12:54	44301	BEAV_T2	1	1	0	2.1	1.8	-0.3	2.09	1.94	4	4	0	3000	3000	0
7/1/2024 12:59	67803	WLAN_T1	2	2	0	0.2	0.15	-0.05	-0.55	-0.53	0	0	0	0	0	0
7/1/2024 12:59	67804	WLAN_T1	2	1	-1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
7/1/2024 13:00	22602	KIMB_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
7/1/2024 13:00	47402	PENS_T1	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
7/1/2024 13:00	47403	PENS_T1	1	2	1	1.8	0.15	-1.65	0	0	0	0	0	0	0	0
7/1/2024 13:00	47401	PENS_T1	5	5	0	0.64	0.72	0.08	0.14	0.16	0	0	0	0	0	0
7/1/2024 13:00	22601	KIMB_T1	1	1	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
7/1/2024 13:01	47403	PENS_T1	1	2	1	1.8	0.15	-1.65	0	0	0	0	0	0	0	0
7/1/2024 13:01	47402	PENS_T1	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
7/1/2024 13:01	47401	PENS_T1	5	5	0	0.64	0.72	0.08	0.14	0.16	0	0	0	0	0	0
7/1/2024 13:02	47402	PENS_T1	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
7/1/2024 13:02	47401	PENS_T1	5	5	0	0.64	0.72	0.08	0.14	0.16	0	0	0	0	0	0
7/1/2024 13:02	47403	PENS_T1	1	2	1	1.8	0.15	-1.65	0	0	0	0	0	0	0	0
7/1/2024 13:03	22905	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 13:03	22901	HARW_T1	1	3	2	0.8	0.9	0.1	-0.25	-0.31	1	1	0	1200	1200	0
7/1/2024 13:03	22903	HARW_T1	9	21	12	0.23	0.55	0.32	0	0	0	0	0	0	0	0
7/1/2024 13:09	56802	BENV_T2	2	1	-1	0.45	0.5	0.05	-0.37	-0.36	0	0	0	0	0	0
7/1/2024 13:10	56803	BENV_T1	3	2	-1	0.6	1.05	0.45	0	0	0	0	0	0	0	0
7/1/2024 13:10	10704	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 13:10	67401	WAKE_T2	3	3	0	0.7	0.6	-0.1	-0.79	-0.78	0	0	0	0	0	0
7/1/2024 13:10	10707	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/1/2024 13:10	10702	CATA_T2	0	0	0	0	0	0	0.05	-0.05	0	0	0	0	0	0
7/1/2024 13:10	56801	BENV_T1	6	7	1	0.32	0.3	-0.02	0.06	0.07	0	0	0	0	0	0
7/1/2024 13:10	10701	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 13:10	10705	CATA_T2	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
7/1/2024 13:12	67804	WLAN_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/1/2024 13:12	67801	WLAN_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
7/1/2024 13:12	67803	WLAN_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/1/2024 13:14	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 13:15	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 13:15	41602	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/1/2024 13:16	13502	MCMI_T1	3	4	1	0.73	0.5	-0.23	-0.1	-0.1	0	0	0	0	0	0
7/1/2024 13:16	13501	MCMI_T1	1	2	1	0.2	0.25	0.05	0.24	0.25	0	0	0	0	0	0
7/1/2024 13:17	13503	MCMI_T2	6	8	2	0.55	0.68	0.13	0.11	0.12	0	0	0	0	0	0
7/1/2024 13:18	64101	REFR_T1	1	2	1	0.5	0.5	0	0.19	0.2	0	0	0	0	0	0
7/1/2024 13:18	54505	ENOL_T2	0	0	0	0	0	0	-2.1	-2.07	2	2	0	1200	1200	0
7/1/2024 13:19	64101	REFR_T1	1	2	1	0.5	0.5	0	0.19	0.2	0	0	0	0	0	0
7/1/2024 13:20	64101	REFR_T1	1	2	1	0.5	0.5	0	0.57	0.6	0	0	0	0	0	0
7/1/2024 13:21	67402	WAKE_T2	0	0	0	0	0	0	0.75	0.77	1	1	0	600	600	0
7/1/2024 13:21	13503	MCMI_T2	6	8	2	0.55	0.68	0.13	0.11	0.12	0	0	0	0	0	0
7/1/2024 13:21	67401	WAKE_T2	3	3	0	0.5	0.53	0.03	0	0	0	0	0	0	0	0
7/1/2024 13:22	67002	STHI_T2	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
7/1/2024 13:22	67001	STHI_T2	1	5	4	0.2	0.26	0.06	0.33	0.34	0	0	0	0	0	0
7/1/2024 13:22	24801	VALM_T1	0	1	1	0	0.7	0.7	-0.2	-0.2	0	0	0	0	0	0
7/1/2024 13:22	13303	ORVI_T1	0	1	1	0	0.1	0.1	0.21	0.23	0	0	0	0	0	0
7/1/2024 13:22	64101	REFR_T1	1	2	1	0.5	0.5	0	0.2	0.21	0	0	0	0	0	0
7/1/2024 13:22	59101	WALK_T2	3	3	0	0.7	0.67	-0.03	1.3	2.35	1	0	-1	600	0	-600
7/1/2024 13:22	59102	WALK_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/1/2024 13:23	59101	WALK_T2	3	3	0	0.7	0.67	-0.03	1.3	2.35	1	0	-1	600	0	-600
7/1/2024 13:23	65604	QVIL_T2	0	0	0	0	0	0	0.78	0.79	0	0	0	0	0	0
7/1/2024 13:23	22901	HARW_T1	1	1	0	0.6	0.9	0.3	-0.35	-0.19	1	1	0	1200	1200	0
7/1/2024 13:23	59102	WALK_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/1/2024 13:23	54505	ENOL_T2	0	0	0	0	0	0	-1.03	-1.02	1	1	0	600	600	0
7/1/2024 13:23	64101	REFR_T1	1	2	1	0.5	0.5	0	0.2	0.21	0	0	0	0	0	0
7/1/2024 13:23	22903	HARW_T1	21	13	-8	1.41	0	-1.41	0	0	0	0	0	0	0	0
7/1/2024 13:24	41602	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/1/2024 13:24	59102	WALK_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/1/2024 13:24	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 13:24	64101	REFR_T1	1	2	1	0.5	0.5	0	0.2	0.21	0	0	0	0	0	0
7/1/2024 13:24	59101	WALK_T2	3	3	0	0.7	0.67	-0.03	1.3	2.35	1	0	-1	600	0	-600
7/1/2024 13:25	59101	WALK_T2	3	3	0	0.7	0.67	-0.03	1.3	2.35	1	0	-1	600	0	-600
7/1/2024 13:25	41602	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/1/2024 13:25	16504	STRO_T1	0	0	0	0	0	0	1.06	1.07	0	0	0	0	0	0
7/1/2024 13:25	59102	WALK_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/1/2024 13:25	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 13:28	14204	FALL_T2	1	1	0	0.1	0.2	0.1	-0.51	-0.53	0	0	0	0	0	0
7/1/2024 13:32	24204	PROV_T3	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
7/1/2024 13:32	24201	PROV_T3	1	1	0	7.3	7.7	0.4	-1.06	-1.05	1	1	0	1200	1200	0
7/1/2024 13:35	66502	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/1/2024 13:35	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/1/2024 13:35	66505	SMAN_T2	0	0	0	0	0	0	0.57	0.58	2	2	0	1500	1500	0
7/1/2024 13:35	61301	EARL_T1	0	0	0	0	0	0	1.25	1.24	2	2	0	1800	1800	0
7/1/2024 13:36	43802	SWIL_T1	0	0	0	0	0	0	1.3	0.05	0	0	0	0	0	0
7/1/2024 13:36	52403	GRPA_T2	2	2	0	0.5	0	-0.5	0.42	0.43	0	0	0	0	0	0
7/1/2024 13:36	52402	GRPA_T2	6	1	-5	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
7/1/2024 13:36	43801	SWIL_T1	1	2	1	5.7	4.9	-0.8	0	0	0	0	0	0	0	0
7/1/2024 13:38	59101	WALK_T2	3	3	0	0.67	2.9	2.23	2.35	2.03	0	1	1	0	600	600
7/1/2024 13:38	59102	WALK_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/1/2024 13:39	59102	WALK_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/1/2024 13:39	59101	WALK_T2	3	3	0	0.67	2.9	2.23	2.35	2.03	0	1	1	0	600	600
7/1/2024 13:40	59102	WALK_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/1/2024 13:40	59101	WALK_T2	3	3	0	0.67	2.9	2.23	2.35	2.03	0	1	1	0	600	600
7/1/2024 13:41	40801	EXCH_T2	1	5	4	0.1	0.3	0.2	-0.24	-0.2	1	1	0	1200	1200	0
7/1/2024 13:41	23902	EFMO_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/1/2024 13:41	40802	EXCH_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 13:41	23901	EFMO_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
7/1/2024 13:43	23901	EFMO_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
7/1/2024 13:43	23902	EFMO_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/1/2024 13:44	22903	HARW_T1	13	1	-12	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/1/2024 13:44	22901	HARW_T1	1	1	0	0.9	0.4	-0.5	-0.19	-0.24	1	1	0	1200	1200	0
7/1/2024 13:44	44801	EDAN_T2	1	1	0	1.4	0	-1.4	0.76	0.76	0	0	0	0	0	0
7/1/2024 13:44	20601	GRWO_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
7/1/2024 13:45	28403	HART_T2	0	1	1	0	0.1	0.1	-1.54	-1.52	2	2	0	1800	1800	0
7/1/2024 13:45	20603	GRWO_T2	0	0	0	0	0	0	-0.46	-0.42	1	1	0	900	900	0
7/1/2024 13:46	40801	EXCH_T2	3	5	2	0.4	0.18	-0.22	-0.24	-0.2	1	1	0	1200	1200	0
7/1/2024 13:46	40802	EXCH_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
7/1/2024 13:47	46101	MACI_T2	0	0	0	0	0	0	0.16	0.09	1	1	0	1200	1200	0
7/1/2024 13:48	47402	PENS_T1	2	3	1	0.65	0.47	-0.18	0	0	0	0	0	0	0	0
7/1/2024 13:48	47401	PENS_T1	7	6	-1	0.66	0.93	0.27	0.15	0.14	0	0	0	0	0	0
7/1/2024 13:50	23102	MOSC_T2	0	0	0	0	0	0	0.2	0.22	1	1	0	900	900	0
7/1/2024 13:53	17001	RIRO_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
7/1/2024 13:54	43301	WATS_T2	0	0	0	0	0	0	-0.4	-0.39	1	1	0	900	900	0
7/1/2024 13:59	44801	EDAN_T2	1	1	0	0	0	0	0.76	0.77	0	0	0	0	0	0
7/1/2024 14:02	65501	MOJO_T1	0	0	0	0	0	0	-0.82	-0.73	1	1	0	900	900	0
7/1/2024 14:02	53801	MBRG_T2	1	1	0	0.1	0.3	0.2	-1.48	-1.5	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/1/2024 14:04	65005	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 14:04	65004	NEFF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/1/2024 14:04	65003	NEFF_T2	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
7/1/2024 14:04	65001	NEFF_T2	0	0	0	0	0	0	-0.19	-0.2	1	1	0	1200	1200	0
7/1/2024 14:05	13503	MCMI_T2	8	7	-1	0.59	0.36	-0.23	0.13	0.14	0	0	0	0	0	0
7/1/2024 14:06	43304	WATS_T2	0	0	0	0	0	0	-0.11	-0.15	0	0	0	0	0	0
7/1/2024 14:06	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 14:07	13302	ORVI_T2	6	9	3	0.97	0.59	-0.38	1.62	1.61	0	0	0	0	0	0
7/1/2024 14:07	14103	TRUM_T2	2	7	5	1.9	1.5	-0.4	0	0	0	0	0	0	0	0
7/1/2024 14:07	14101	TRUM_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
7/1/2024 14:08	66901	SHIL_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
7/1/2024 14:08	66902	SHIL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/1/2024 14:08	66903	SHIL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/1/2024 14:08	60201	ATGL_T2	0	0	0	0	0	0	0.74	0.75	1	1	0	300	300	0
7/1/2024 14:09	43301	WATS_T2	0	1	1	0	0.1	0.1	-0.39	-0.38	1	1	0	900	900	0
7/1/2024 14:11	43301	WATS_T2	0	1	1	0	0.1	0.1	-0.39	-0.38	1	1	0	900	900	0
7/1/2024 14:15	24202	PROV_T4	0	0	0	0	0	0	-0.24	-0.25	1	1	0	1200	1200	0
7/1/2024 14:16	45802	HEGI_T2	25	9	-16	0.4	0.41	0.01	0.52	0.72	2	2	0	1200	1200	0
7/1/2024 14:25	66502	SMAN_T2	1	0	-1	0.2	0	-0.2	0.56	0.4	0	0	0	0	0	0
7/1/2024 14:25	66501	SMAN_T2	2	2	0	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
7/1/2024 14:27	47103	MARL_T2	0	0	0	0	0	0	-0.27	-0.26	0	0	0	0	0	0
7/1/2024 14:28	66201	SISP_T2	0	0	0	0	0	0	-1.79	-1.78	0	0	0	0	0	0
7/1/2024 14:30	66301	MCGO_T2	0	1	1	0	0.1	0.1	-1.47	-1.46	0	0	0	0	0	0
7/1/2024 14:30	66302	MCGO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 14:31	13503	MCMI_T2	3	1	-2	0.27	0.6	0.33	0.14	0.15	0	0	0	0	0	0
7/1/2024 14:31	65502	MOJO_T2	0	0	0	0	0	0	-0.31	-0.18	1	1	0	900	900	0
7/1/2024 14:32	66302	MCGO_T2	0	2	2	0	0.1	0.1	-1.25	-0.95	1	1	0	600	600	0
7/1/2024 14:32	66301	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 14:33	64701	LITI_T1	0	0	0	0	0	0	0.5	0.55	0	0	0	0	0	0
7/1/2024 14:33	58402	MORO_T1	0	0	0	0	0	0	-0.63	-0.63	3	3	0	2400	2400	0
7/1/2024 14:33	58401	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 14:34	66301	MCGO_T2	0	1	1	0	0.1	0.1	-1.47	-1.46	0	0	0	0	0	0
7/1/2024 14:34	66302	MCGO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 14:35	66302	MCGO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 14:35	66301	MCGO_T2	0	1	1	0	0.1	0.1	-1.47	-1.46	0	0	0	0	0	0
7/1/2024 14:38	66201	SISP_T2	0	0	0	0	0	0	-1.78	-1.77	0	0	0	0	0	0
7/1/2024 14:40	29402	BELT_T1	66	50	-16	0.4	0.39	-0.01	0	0	0	0	0	0	0	0
7/1/2024 14:40	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/1/2024 14:41	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/1/2024 14:41	29402	BELT_T1	66	50	-16	0.4	0.39	-0.01	0	0	0	0	0	0	0	0
7/1/2024 14:42	29402	BELT_T1	66	50	-16	0.4	0.39	-0.01	0	0	0	0	0	0	0	0
7/1/2024 14:42	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/1/2024 14:43	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/1/2024 14:43	29402	BELT_T1	66	50	-16	0.4	0.39	-0.01	0	0	0	0	0	0	0	0
7/1/2024 14:44	21504	CEAV_T1	0	0	0	0	0	0	-0.55	-0.54	1	1	0	1200	1200	0
7/1/2024 14:47	65603	QVIL_T2	0	0	0	0	0	0	-0.02	-0.3	0	0	0	0	0	0
7/1/2024 14:48	65501	MOJO_T1	0	0	0	0	0	0	-0.8	-0.82	1	1	0	900	900	0
7/1/2024 14:49	47802	MOCA_T2	0	0	0	0	0	0	0.66	0.64	0	0	0	0	0	0
7/1/2024 14:50	53801	MBRG_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/1/2024 14:50	53802	MBRG_T2	0	1	1	0	0	0	1.46	1.43	0	0	0	0	0	0
7/1/2024 14:50	53803	MBRG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 14:53	66703	STRA_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
7/1/2024 14:53	58006	WCAR_T2	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
7/1/2024 14:53	66701	STRA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/1/2024 14:54	66703	STRA_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
7/1/2024 14:54	66701	STRA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/1/2024 14:54	66702	STRA_T1	0	0	0	0	0	0	-0.08	-0.19	2	2	0	1500	1500	0
7/1/2024 14:55	61501	EPET_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
7/1/2024 14:55	61506	EPET_T2	0	0	0	0	0	0	-0.13	-0.14	1	1	0	900	900	0
7/1/2024 14:57	62105	ELAN_T1	0	0	0	0	0	0	1.62	1.65	0	0	0	0	0	0
7/1/2024 14:57	62102	ELAN_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
7/1/2024 14:58	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 15:00	45802	HEGI_T2	31	43	12	0.57	0.82	0.25	0.57	0.65	2	2	0	1200	1200	0
7/1/2024 15:05	16204	POFA_T1	7	12	5	0.3	0.34	0.04	0	0	0	0	0	0	0	0
7/1/2024 15:05	16202	POFA_T1	4	4	0	0.25	0.28	0.03	0	0	0	0	0	0	0	0
7/1/2024 15:08	65601	QVIL_T2	0	0	0	0	0	0	-0.43	-0.35	1	1	0	900	900	0
7/1/2024 15:10	61801	EELI_T2	0	1	1	0	0.2	0.2	-0.54	-0.54	2	2	0	1200	1200	0
7/1/2024 15:10	61802	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 15:11	14403	SSLA_T1	23	23	0	0.44	0.3	-0.14	0.75	0.76	1	1	0	600	600	0
7/1/2024 15:11	14404	SSLA_T1	1	1	0	4.4	4.2	-0.2	0	0	0	0	0	0	0	0
7/1/2024 15:11	14402	SSLA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/1/2024 15:11	14401	SSLA_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
7/1/2024 15:11	12605	MACA_T1	0	0	0	0	0	0	0.58	-0.08	0	0	0	0	0	0
7/1/2024 15:11	12601	MACA_T1	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
7/1/2024 15:12	61801	EELI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 15:12	61803	EELI_T2	0	0	0	0	0	0	1.25	1.23	0	0	0	0	0	0
7/1/2024 15:12	61802	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 15:14	23201	HIRU_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
7/1/2024 15:14	23202	HIRU_T2	2	2	0	0.2	0.15	-0.05	0.14	0.14	0	0	0	0	0	0
7/1/2024 15:14	23203	HIRU_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/1/2024 15:18	13503	MCMI_T2	1	1	0	0.6	0.8	0.2	0.17	0.17	0	0	0	0	0	0
7/1/2024 15:18	40602	PIGR_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/1/2024 15:18	40603	PIGR_T1	0	2	2	0	0.2	0.2	0.62	0.54	0	0	0	0	0	0
7/1/2024 15:18	40601	PIGR_T1	9	9	0	0.38	0.4	0.02	0	0	0	0	0	0	0	0
7/1/2024 15:27	66203	SISP_T2	0	0	0	0	0	0	-0.81	-0.88	2	2	0	1800	1800	0
7/1/2024 15:32	64902	MILL_T2	0	0	0	0	0	0	-0.13	-0.13	1	1	0	900	900	0
7/1/2024 15:32	58401	MORO_T1	0	0	0	0	0	0	-0.6	-0.61	1	1	0	600	600	0
7/1/2024 15:33	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.21	2	2	0	1200	1200	0
7/1/2024 15:34	42902	MIDD_T2	0	1	1	0	0	0	0.23	0.17	0	0	0	0	0	0
7/1/2024 15:34	64101	REFR_T1	0	1	1	0	0.1	0.1	0.27	0.28	0	0	0	0	0	0
7/1/2024 15:34	44202	POIN_T2	0	0	0	0	0	0	-0.53	-0.21	1	1	0	1200	1200	0
7/1/2024 15:34	42903	MIDD_T2	2	2	0	1	1.35	0.35	0	0	0	0	0	0	0	0
7/1/2024 15:35	55101	WERT_T1	0	0	0	0	0	0	-1.55	-1.54	3	3	0	2400	2400	0
7/1/2024 15:36	64101	REFR_T1	0	1	1	0	0.1	0.1	0.85	0.87	0	0	0	0	0	0
7/1/2024 15:42	13704	SCHN_T2	2	1	-1	0.2	0.1	-0.1	0.42	0.42	0	0	0	0	0	0
7/1/2024 15:44	64201	KINZ_T1	0	1	1	0	0	0	-0.35	-0.5	4	4	0	2100	2100	0
7/1/2024 15:44	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 15:44	64204	KINZ_T1	1	1	0	0.2	1.2	1	0	0	0	0	0	0	0	0
7/1/2024 15:45	14401	SSLA_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/1/2024 15:45	45802	HEGI_T2	43	38	-5	1.07	0.6	-0.47	0.22	0.37	2	2	0	1200	1200	0
7/1/2024 15:45	14403	SSLA_T1	7	10	3	0.14	0.14	0	0.77	0.74	1	1	0	600	600	0
7/1/2024 15:45	14404	SSLA_T1	1	1	0	4.2	4.3	0.1	0	0	0	0	0	0	0	0
7/1/2024 15:45	61301	EARL_T1	0	0	0	0	0	0	-1.25	-1.25	2	2	0	1800	1800	0
7/1/2024 15:45	63501	HEID_TBK1-2	4	4	0	0.43	0.4	-0.03	0.38	0.06	1	1	0	900	900	0
7/1/2024 15:45	14402	SSLA_T1	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
7/1/2024 15:47	63501	HEID_TBK1-2	4	4	0	0.43	0.4	-0.03	0.38	0.06	1	1	0	900	900	0
7/1/2024 15:49	53803	MBRG_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
7/1/2024 15:49	47403	PENS_T1	4	3	-1	0.45	0.53	0.08	0	0	0	0	0	0	0	0
7/1/2024 15:49	44202	POIN_T2	0	0	0	0	0	0	-0.21	-0.29	1	1	0	1200	1200	0
7/1/2024 15:49	47401	PENS_T1	3	2	-1	0.5	0.45	-0.05	0.32	0.31	0	0	0	0	0	0
7/1/2024 15:49	47402	PENS_T1	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/1/2024 15:52	59102	WALK_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
7/1/2024 15:52	59101	WALK_T2	1	0	0	1.7	0	-1.7	1.65	1.24	2	2	0	1200	1200	0
7/1/2024 16:01	40901	JESH_T1	1	1	0	1.6	2.1	0.5	0	0	0	0	0	0	0	0
7/1/2024 16:01	40902	JESH_T1	0	0	0	0	0	0	-1.17	-1.12	2	1	-1	1200	600	-600
7/1/2024 16:02	64904	MILL_T1	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
7/1/2024 16:02	45801	HEGI_T1	0	0	0	0	0	0	0.24	0.22	1	1	0	900	900	0
7/1/2024 16:03	40902	JESH_T1	0	0	0	0	0	0	-1.17	-1.12	2	1	-1	1200	600	-600
7/1/2024 16:03	40901	JESH_T1	1	1	0	1.6	2.1	0.5	0	0	0	0	0	0	0	0
7/1/2024 16:05	55101	WERT_T1	0	0	0	0	0	0	-1.48	-1.45	3	3	0	2400	2400	0
7/1/2024 16:07	48302	ORWI_T2	2	2	0	0.65	0.65	0	-0.25	-0.25	0	0	0	0	0	0
7/1/2024 16:07	64101	REFR_T1	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
7/1/2024 16:08	64101	REFR_T1	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
7/1/2024 16:08	67901	WNHO_T2	0	2	2	0	0.1	0.1	0.01	-0.05	1	1	0	900	900	0
7/1/2024 16:09	55101	WERT_T1	0	0	0	0	0	0	-1.45	-1.53	3	3	0	2400	2400	0
7/1/2024 16:14	63401	HONY_T1	0	0	0	0	0	0	0.92	0.93	0	0	0	0	0	0
7/1/2024 16:14	63404	HONY_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 16:15	40101	HUNT_T2	7	7	0	0.53	0.58	0.05	-0.21	-0.19	0	0	0	0	0	0
7/1/2024 16:20	46301	ROHR_T1	290	298	8	0.63	0.59	-0.04	0.34	0.34	0	0	0	0	0	0
7/1/2024 16:20	46302	ROHR_T1	95	57	-38	0.32	0.35	0.03	0.27	0.28	0	0	0	0	0	0
7/1/2024 16:21	57104	SPHI_T2	1	1	0	2.5	2.3	-0.2	-1.25	-1.23	1	1	0	900	900	0
7/1/2024 16:21	46301	ROHR_T1	290	298	8	0.63	0.59	-0.04	0.34	0.34	0	0	0	0	0	0
7/1/2024 16:21	52403	GRPA_T2	5	13	8	0.52	2.07	1.55	0.51	0.51	0	0	0	0	0	0
7/1/2024 16:21	52402	GRPA_T2	3	2	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
7/1/2024 16:21	67001	STHI_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
7/1/2024 16:21	46302	ROHR_T1	95	57	-38	0.32	0.35	0.03	0	0	0	0	0	0	0	0
7/1/2024 16:21	57106	SPHI_T2	3	3	0	0.87	0.93	0.06	0	0	0	0	0	0	0	0
7/1/2024 16:22	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/1/2024 16:23	46302	ROHR_T1	95	57	-38	0.32	0.35	0.03	0.28	0.28	0	0	0	0	0	0
7/1/2024 16:23	46301	ROHR_T1	290	298	8	0.63	0.59	-0.04	0.34	0.34	0	0	0	0	0	0
7/1/2024 16:28	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 16:28	47101	MARL_T1	0	0	0	0	0	0	-0.44	-0.51	0	0	0	0	0	0
7/1/2024 16:29	47104	MARL_T1	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
7/1/2024 16:29	47101	MARL_T1	0	0	0	0	0	0	-1.77	-2.04	0	0	0	0	0	0
7/1/2024 16:30	47101	MARL_T1	0	0	0	0	0	0	-0.44	-0.51	0	0	0	0	0	0
7/1/2024 16:31	47101	MARL_T1	0	0	0	0	0	0	-0.88	-1.02	0	0	0	0	0	0
7/1/2024 16:32	47101	MARL_T1	0	0	0	0	0	0	-0.88	-1.02	0	0	0	0	0	0
7/1/2024 16:34	16204	POFA_T1	4	5	1	0.35	0.24	-0.11	0	0	0	0	0	0	0	0
7/1/2024 16:34	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 16:35	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 16:35	64101	REFR_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
7/1/2024 16:38	59102	WALK_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
7/1/2024 16:38	59101	WALK_T2	1	0	-1	0.1	0	-0.1	1.3	1.35	1	1	0	600	600	0
7/1/2024 16:39	56503	ROCK_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/1/2024 16:39	56501	ROCK_T2	3	4	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/1/2024 16:39	56504	ROCK_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
7/1/2024 16:49	61301	EARL_T1	0	0	0	0	0	0	-1.28	-1.28	2	2	0	1800	1800	0
7/1/2024 16:51	64101	REFR_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
7/1/2024 16:57	11104	EGYP_T1	10	7	-3	0.83	0.9	0.07	0	0	0	0	0	0	0	0
7/1/2024 16:57	11103	EGYP_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
7/1/2024 16:57	11102	EGYP_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
7/1/2024 17:00	11104	EGYP_T1	8	7	-1	1.01	1.52	0.51	0	0	0	0	0	0	0	0
7/1/2024 17:00	11103	EGYP_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/1/2024 17:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 17:00	11102	EGYP_T1	1	2	1	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
7/1/2024 17:05	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 17:05	52403	GRPA_T2	15	28	13	0.57	0.48	-0.09	0.52	0.53	0	0	0	0	0	0
7/1/2024 17:05	52402	GRPA_T2	2	1	-1	0.95	0	-0.95	0	0	0	0	0	0	0	0
7/1/2024 17:05	57401	SPAN_T1	0	1	1	0	0	0	-0.86	-1.12	1	1	0	600	600	0
7/1/2024 17:07	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 17:08	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 17:08	57401	SPAN_T1	0	1	1	0	0	0	-2.24	-2.22	2	2	0	1200	1200	0
7/1/2024 17:09	57401	SPAN_T1	0	1	1	0	0	0	-1.12	-1.11	1	1	0	600	600	0
7/1/2024 17:09	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 17:14	47101	MARL_T1	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
7/1/2024 17:16	47101	MARL_T1	0	9	9	0	0	0	-0.42	-0.4	0	0	0	0	0	0
7/1/2024 17:18	60502	NMAN_T2	0	0	0	0	0	0	0.42	0.35	0	0	0	0	0	0
7/1/2024 17:18	60501	NMAN_T2	3	3	0	3.4	3.6	0.2	0	0	0	0	0	0	0	0
7/1/2024 17:21	60502	NMAN_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
7/1/2024 17:21	60501	NMAN_T2	3	3	0	3.4	3.6	0.2	0	0	0	0	0	0	0	0
7/1/2024 17:26	60201	ATGL_T2	0	0	0	0	0	0	0.66	0.68	1	1	0	300	300	0
7/1/2024 17:32	25402	LAHA_T2	0	0	0	0	0	0	-0.54	-0.68	0	0	0	0	0	0
7/1/2024 17:34	58401	MORO_T1	0	1	1	0	0	0	-1.19	-1.19	2	2	0	1200	1200	0
7/1/2024 17:34	11102	EGYP_T1	2	3	1	1.2	1.2	0	0	0	0	0	0	0	0	0
7/1/2024 17:34	58402	MORO_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 17:34	11104	EGYP_T1	6	5	-1	1.48	0.6	-0.88	1.29	0.92	0	0	0	0	0	0
7/1/2024 17:42	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 17:42	21206	ECAR_T2	1	2	1	8.1	7.8	-0.3	0.3	0.33	0	0	0	0	0	0
7/1/2024 17:53	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 17:53	21206	ECAR_T2	1	2	1	7.8	7.9	0.1	0.33	0.36	0	0	0	0	0	0
7/1/2024 17:54	22002	BOHE_T1	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
7/1/2024 17:54	22003	BOHE_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/1/2024 18:04	52401	GRPA_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/1/2024 18:04	56501	ROCK_T2	1	1	0	0.1	0.7	0.6	-1.29	-1.28	0	0	0	0	0	0
7/1/2024 18:04	46101	MACI_T2	0	0	0	0	0	0	-0.43	-0.43	1	1	0	1200	1200	0
7/1/2024 18:04	52404	GRPA_T2	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
7/1/2024 18:04	52403	GRPA_T2	17	15	-2	0.87	0.5	-0.37	0	0	0	0	0	0	0	0
7/1/2024 18:04	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 18:06	41901	REED_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/1/2024 18:06	41902	REED_T1	9	13	4	0.69	0.88	0.19	0	0	0	0	0	0	0	0
7/1/2024 18:06	41903	REED_T1	0	0	0	0	0	0	0.26	0.26	1	1	0	1200	1200	0
7/1/2024 18:08	67204	TEHI_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
7/1/2024 18:08	67503	WEWI_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
7/1/2024 18:09	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 18:10	22003	BOHE_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/1/2024 18:10	22002	BOHE_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
7/1/2024 18:11	57401	SPAN_T1	0	0	0	0	0	0	-0.81	-0.8	1	1	0	600	600	0
7/1/2024 18:14	63404	HONY_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/1/2024 18:14	63401	HONY_T1	0	0	0	0	0	0	0.88	0.85	0	0	0	0	0	0
7/1/2024 18:16	64202	KINZ_T1	2	6	4	0.2	0.28	0.08	0	0	0	0	0	0	0	0
7/1/2024 18:16	64204	KINZ_T1	2	10	8	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/1/2024 18:16	46801	HEPB_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/1/2024 18:16	46803	HEPB_T2	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
7/1/2024 18:16	64201	KINZ_T1	5	5	0	0.22	0.6	0.38	0	0	0	0	0	0	0	0
7/1/2024 18:16	64203	KINZ_T1	0	0	0	0	0	0	0.16	0.15	1	1	0	600	600	0
7/1/2024 18:17	21206	ECAR_T2	1	1	0	7.9	8.1	0.2	0.36	0.37	0	0	0	0	0	0
7/1/2024 18:17	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 18:19	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 18:20	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 18:25	44601	SALE_T2	0	1	1	0	0.4	0.4	0.18	0.16	0	0	0	0	0	0
7/1/2024 18:25	52402	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 18:25	52403	GRPA_T2	14	6	-8	0.61	0.33	-0.28	-0.21	-0.25	0	0	0	0	0	0
7/1/2024 18:27	43302	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/1/2024 18:27	14204	EALL_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
7/1/2024 18:27	43304	WATS_T2	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
7/1/2024 18:29	14204	EALL_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
7/1/2024 18:31	13501	MCMI_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
7/1/2024 18:32	52002	LING_T2	0	0	0	0	0	0	0.48	0.59	0	0	0	0	0	0
7/1/2024 18:32	46903	MNTG_T2	13	156	143	0.23	0.26	0.03	0.17	0.19	1	1	0	600	600	0
7/1/2024 18:32	46902	MNTG_T2	0	15	15	0	0.15	0.15	0	0	0	0	0	0	0	0
7/1/2024 18:32	46901	MNTG_T2	0	3	3	0	0.13	0.13	1.74	1.51	0	0	0	0	0	0
7/1/2024 18:46	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 18:46	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 18:46	21206	ECAR_T2	1	1	0	8.1	8	-0.1	0.32	0.31	0	0	0	0	0	0
7/1/2024 18:51	12601	MACA_T1	0	0	0	0	0	0	1.34	1.28	0	0	0	0	0	0
7/1/2024 18:52	23001	SAJO_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
7/1/2024 19:01	65604	QVIL_T2	1	1	0	4.8	4	-0.8	0	0	0	0	0	0	0	0
7/1/2024 19:01	65603	QVIL_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
7/1/2024 19:05	64902	MILL_T2	0	0	0	0	0	0	-0.85	-0.86	1	1	0	900	900	0
7/1/2024 19:07	12006	HATF_T1	0	0	0	0	0	0	-0.08	-0.17	2	2	0	2400	2400	0
7/1/2024 19:08	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 19:10	18001	ZION_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 19:15	11904	ETEX_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
7/1/2024 19:17	20603	GRWO_T2	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
7/1/2024 19:17	20601	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 19:24	24901	WHHA_T1	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
7/1/2024 19:28	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 19:28	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 19:32	50201	HARR_T3	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/1/2024 19:32	50107	HARR_T3	1	1	0	7.2	6.9	-0.3	0.7	0.7	0	0	0	0	0	0
7/1/2024 19:32	50105	HARR_T3	6	6	0	6.23	5.98	-0.25	0	0	0	0	0	0	0	0
7/1/2024 19:35	64201	KINZ_T1	31	26	-5	0.24	0.29	0.05	0	0	0	0	0	0	0	0
7/1/2024 19:35	64203	KINZ_T1	16	22	6	0.13	0.14	0.01	0.13	0.05	1	1	0	600	600	0
7/1/2024 19:35	64202	KINZ_T1	4	9	5	0.2	0.21	0.01	0	0	0	0	0	0	0	0
7/1/2024 19:35	64204	KINZ_T1	23	26	3	0.23	0.31	0.08	0	0	0	0	0	0	0	0
7/1/2024 19:38	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 19:45	29402	BELT_T1	1	1	0	8.8	8.9	0.1	0	0	0	0	0	0	0	0
7/1/2024 19:45	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 19:54	66901	SHIL_T2	0	0	0	0	0	0	0.24	0.18	0	0	0	0	0	0
7/1/2024 19:59	10705	CATA_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
7/1/2024 20:13	15703	TANN_T2	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
7/1/2024 20:13	24802	VALM_T1	0	0	0	0	0	0	3.31	3.35	0	0	0	0	0	0
7/1/2024 20:13	15702	TANN_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
7/1/2024 20:15	46203	DANV_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
7/1/2024 20:17	22701	MINO_T1	0	0	0	0	0	0	-0.74	-0.65	1	1	0	600	600	0
7/1/2024 20:18	46203	DANV_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
7/1/2024 20:19	63305	GREE_T1	14	15	1	0.36	0.39	0.03	0	0	0	0	0	0	0	0
7/1/2024 20:19	46004	BERW_T2	0	0	0	0	0	0	0.41	0.34	0	0	0	0	0	0
7/1/2024 20:19	63304	GREE_T1	0	0	0	0	0	0	-1.28	-1.32	0	0	0	0	0	0
7/1/2024 20:20	25503	MADI_T1	50	59	9	0.23	0.21	-0.02	-0.75	-0.76	0	0	0	0	0	0
7/1/2024 20:32	64203	KINZ_T1	0	0	0	0	0	0	0.64	0.59	0	0	0	0	0	0
7/1/2024 20:32	64204	KINZ_T1	1	7	6	0.7	0.26	-0.44	0	0	0	0	0	0	0	0
7/1/2024 20:32	64202	KINZ_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/1/2024 20:32	64201	KINZ_T1	1	5	4	0.5	0.32	-0.18	0	0	0	0	0	0	0	0
7/1/2024 20:36	67502	WEWI_T2	1	30	29	0.1	0.17	0.07	-1.04	-1.07	1	1	0	900	900	0
7/1/2024 20:40	67502	WEWI_T2	1	30	29	0.1	0.17	0.07	-1.04	-1.07	1	1	0	900	900	0
7/1/2024 20:40	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/1/2024 20:40	65207	PRIN_T4	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 20:40	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 20:42	60803	BUCK_T1	3	9	6	0.13	0.14	0.01	0	0	0	0	0	0	0	0
7/1/2024 20:42	60801	BUCK_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
7/1/2024 20:45	40502	CRES_T2	3	3	0	0.17	0.13	-0.04	-0.04	-0.05	0	0	0	0	0	0
7/1/2024 20:45	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 20:47	40101	HUNT_T2	1	3	2	0.3	0.3	0	-0.31	-0.28	0	0	0	0	0	0
7/1/2024 20:52	24902	WHHA_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
7/1/2024 20:52	45702	LIND_T2	0	0	0	0	0	0	-1.66	-1.68	0	0	0	0	0	0
7/1/2024 20:53	60504	NMAN_T2	0	0	0	0	0	0	-0.27	-0.31	1	1	0	1200	1200	0
7/1/2024 20:53	12701	MACU_T1	0	0	0	0	0	0	-1.93	-1.95	2	2	0	2400	2400	0
7/1/2024 20:53	60501	NMAN_T2	3	3	0	4.57	4.33	-0.24	0	0	0	0	0	0	0	0
7/1/2024 21:02	50201	HARR_T3	1	1	0	0.5	0.7	0.2	-0.76	-0.77	1	1	0	1200	1200	0
7/1/2024 21:02	50105	HARR_T3	6	6	0	5.9	5.83	-0.07	0	0	0	0	0	0	0	0
7/1/2024 21:02	50103	HARR_T3	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/1/2024 21:02	50107	HARR_T3	1	1	0	7.3	6.8	-0.5	0	0	0	0	0	0	0	0
7/1/2024 21:03	50103	HARR_T3	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/1/2024 21:03	50107	HARR_T3	1	1	0	7.3	6.8	-0.5	0	0	0	0	0	0	0	0
7/1/2024 21:03	50105	HARR_T3	6	6	0	5.9	5.83	-0.07	0	0	0	0	0	0	0	0
7/1/2024 21:03	50201	HARR_T3	1	1	0	0.5	0.7	0.2	-0.76	-0.77	1	1	0	1200	1200	0
7/1/2024 21:07	52501	PROG_T1	0	0	0	0	0	0	0.13	0.1	1	1	0	300	300	0
7/1/2024 21:08	66502	SMAN_T2	0	0	0	0	0	0	0.16	0.12	0	0	0	0	0	0
7/1/2024 21:08	66504	SMAN_T2	1	0	-1	2.9	0	-2.9	0	0	0	0	0	0	0	0
7/1/2024 21:12	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/1/2024 21:12	56501	ROCK_T2	139	21	-118	0.27	0.27	0	-1.54	-1.58	0	0	0	0	0	0
7/1/2024 21:13	56501	ROCK_T2	139	21	-118	0.27	0.27	0	-1.54	-1.58	0	0	0	0	0	0
7/1/2024 21:13	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/1/2024 21:32	47001	HUGH_T2	3	3	0	7.53	8.27	0.74	-0.62	-0.67	0	0	0	0	0	0
7/1/2024 21:32	47002	HUGH_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/1/2024 21:33	14601	SWHI_T1	0	0	0	0	0	0	-1.77	-1.36	0	0	0	0	0	0
7/1/2024 21:35	47001	HUGH_T2	3	3	0	7.53	8.27	0.74	-0.62	-0.67	0	0	0	0	0	0
7/1/2024 21:35	47002	HUGH_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/1/2024 21:36	44201	POIN_T1	6	8	2	0.17	0.2	0.03	-2.33	-2.35	2	2	0	2100	2100	0
7/1/2024 21:40	14702	TREX_T2	0	0	0	0	0	0	1.16	1.25	0	0	0	0	0	0
7/1/2024 21:41	14702	TREX_T2	0	0	0	0	0	0	1.16	1.25	0	0	0	0	0	0
7/1/2024 21:43	67805	WLAN_T1	0	16	16	0	0.11	0.11	-1.26	-1.27	0	0	0	0	0	0
7/1/2024 21:48	43202	MVIL_T2	100	137	37	0.87	0.86	-0.01	-1.21	-1.22	0	0	0	0	0	0
7/1/2024 21:48	43201	MVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 21:49	43201	MVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 21:49	43202	MVIL_T2	100	137	37	0.87	0.86	-0.01	-0.61	-0.61	0	0	0	0	0	0
7/1/2024 21:50	66504	SMAN_T2	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
7/1/2024 21:50	66505	SMAN_T2	3	3	0	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
7/1/2024 21:53	14601	SWHI_T1	0	0	0	0	0	0	-1.38	-1.41	0	0	0	0	0	0
7/1/2024 21:59	63305	GREE_T1	0	5	5	0	0.1	0.1	-1.03	-1.03	0	0	0	0	0	0
7/1/2024 22:02	16402	MOPO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:02	16401	MOPO_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
7/1/2024 22:08	15203	SFAR_T2	0	0	0	0	0	0	-0.83	-0.86	0	0	0	0	0	0
7/1/2024 22:10	67604	WARW_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
7/1/2024 22:10	67402	WAKE_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/1/2024 22:10	67605	WARW_T1	10	3	-7	0.28	0.3	0.02	-3.57	-3.7	0	0	0	0	0	0
7/1/2024 22:10	41902	REED_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:10	41901	REED_T1	9	0	-9	1.06	0	-1.06	0	0	0	0	0	0	0	0
7/1/2024 22:10	67401	WAKE_T2	23	79	56	0.17	0.25	0.08	0	0	0	0	0	0	0	0
7/1/2024 22:10	41903	REED_T1	0	0	0	0	0	0	1.01	1	0	0	0	0	0	0
7/1/2024 22:11	55002	NEWP_T1	5	4	-1	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
7/1/2024 22:11	67603	WARW_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
7/1/2024 22:11	67605	WARW_T1	10	3	-7	0.28	0.3	0.02	-1.19	-1.23	0	0	0	0	0	0
7/1/2024 22:11	55001	NEWP_T1	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
7/1/2024 22:12	15203	SFAR_T2	0	0	0	0	0	0	-0.83	-0.86	0	0	0	0	0	0
7/1/2024 22:24	42903	MIDD_T2	2	2	0	0.85	1.25	0.4	0	0	0	0	0	0	0	0
7/1/2024 22:24	42902	MIDD_T2	0	0	0	0	0	0	-0.73	-0.76	1	1	0	600	600	0
7/1/2024 22:25	54601	SUMM_T2	0	0	0	0	0	0	0	0	2	2	0	2100	2100	0
7/1/2024 22:25	42903	MIDD_T2	2	2	0	0.85	1.25	0.4	0	0	0	0	0	0	0	0
7/1/2024 22:25	65901	SAKR_T2	1	1	0	7.8	7.6	-0.2	0	0	0	0	0	0	0	0
7/1/2024 22:25	65903	SAKR_T2	0	0	0	0	0	0	-1.19	-1.23	3	3	0	2100	2100	0
7/1/2024 22:25	42902	MIDD_T2	0	0	0	0	0	0	-0.73	-0.76	1	1	0	600	600	0
7/1/2024 22:26	54601	SUMM_T2	0	0	0	0	0	0	0	0	4	4	0	4200	4200	0
7/1/2024 22:28	60801	BUCK_T1	55	62	7	0.37	0.48	0.11	-0.16	-0.17	0	0	0	0	0	0
7/1/2024 22:28	60803	BUCK_T1	19	22	3	0.44	0.57	0.13	0	0	0	0	0	0	0	0
7/1/2024 22:29	23202	HIRU_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
7/1/2024 22:29	42902	MIDD_T2	0	0	0	0	0	0	-0.73	-0.76	1	1	0	600	600	0
7/1/2024 22:29	42903	MIDD_T2	2	2	0	0.85	1.25	0.4	0	0	0	0	0	0	0	0
7/1/2024 22:30	60803	BUCK_T1	22	16	-6	0.57	0.45	-0.12	0	0	0	0	0	0	0	0
7/1/2024 22:30	60801	BUCK_T1	62	55	-7	0.48	0.36	-0.12	-0.16	-0.17	0	0	0	0	0	0
7/1/2024 22:31	58003	WCAR_T1	1	1	0	1	0.9	-0.1	0.8	0.79	0	0	0	0	0	0
7/1/2024 22:31	58001	WCAR_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
7/1/2024 22:32	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
7/1/2024 22:32	60501	NMAN_T2	3	3	0	4.27	5	0.73	0	0	0	0	0	0	0	0
7/1/2024 22:32	66303	MCGO_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/1/2024 22:32	15702	TANN_T2	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
7/1/2024 22:32	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:32	60502	NMAN_T2	0	0	0	0	0	0	-0.28	-0.32	0	0	0	0	0	0
7/1/2024 22:32	13502	MCMI_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
7/1/2024 22:32	66301	MCGO_T2	15	0	-15	0.13	0	-0.13	-1.56	-1.57	0	0	0	0	0	0
7/1/2024 22:33	55001	NEWP_T1	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
7/1/2024 22:33	55002	NEWP_T1	4	5	1	0.8	0.88	0.08	0	0	0	0	0	0	0	0
7/1/2024 22:34	65004	NEFF_T2	0	0	0	0	0	0	-0.74	-0.76	1	1	0	600	600	0
7/1/2024 22:34	65003	NEFF_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
7/1/2024 22:34	20401	ASHF_T2	2	4	2	0.25	0.38	0.13	-0.1	-0.12	0	0	0	0	0	0
7/1/2024 22:35	65003	NEFF_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
7/1/2024 22:35	15803	WGAT_T1	143	185	42	0.44	0.5	0.06	1.23	1.26	0	0	0	0	0	0
7/1/2024 22:35	15801	WGAT_T1	527	636	109	0.55	0.67	0.12	0	0	0	0	0	0	0	0
7/1/2024 22:35	21901	HUMB_T1	0	0	0	0	0	0	-0.87	-0.88	0	0	0	0	0	0
7/1/2024 22:35	48302	ORWI_T2	2	2	0	0.9	1.1	0.2	0.06	0.05	0	0	0	0	0	0
7/1/2024 22:35	53501	EVIL_T2	2	2	0	0.65	0.85	0.2	-0.76	-0.78	1	1	0	600	600	0
7/1/2024 22:35	65004	NEFF_T2	0	0	0	0	0	0	-0.74	-0.76	1	1	0	600	600	0
7/1/2024 22:36	65003	NEFF_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
7/1/2024 22:36	50103	HARR_T3	2	2	0	0.1	0.35	0.25	0	0	0	0	0	0	0	0
7/1/2024 22:36	65001	NEFF_T2	0	0	0	0	0	0	-0.81	-0.83	1	1	0	1200	1200	0
7/1/2024 22:36	21204	ECAR_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/1/2024 22:36	21206	ECAR_T2	1	1	0	8	8.4	0.4	0.06	0.16	0	0	0	0	0	0
7/1/2024 22:36	50102	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:36	50201	HARR_T3	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/1/2024 22:36	16406	MOPO_T1	0	0	0	0	0	0	0.94	-0.23	0	1	1	0	900	900
7/1/2024 22:36	50105	HARR_T3	6	6	0	6.2	5.68	-0.52	0	0	0	0	0	0	0	0
7/1/2024 22:36	25402	LAHA_T2	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
7/1/2024 22:36	46801	HEPB_T2	46	3	-43	0.38	0.57	0.19	0.71	0.69	0	0	0	0	0	0
7/1/2024 22:36	50107	HARR_T3	1	1	0	6.6	6.4	-0.2	0.66	0.65	0	0	0	0	0	0
7/1/2024 22:36	46803	HEPB_T2	41	0	-41	0.26	0	-0.26	0	0	0	0	0	0	0	0
7/1/2024 22:36	16402	MOPO_T1	0	1	1	0	0	0	0.15	0.01	0	0	0	0	0	0
7/1/2024 22:37	13503	MCMI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
7/1/2024 22:37	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/1/2024 22:37	16402	MOPO_T1	0	1	1	0	0	0	0.01	-0.02	0	0	0	0	0	0
7/1/2024 22:37	29402	BELT_T1	1	1	0	6.4	7.1	0.7	0	0	0	0	0	0	0	0
7/1/2024 22:38	47101	MARL_T1	0	0	0	0	0	0	-0.76	-0.17	0	0	0	0	0	0
7/1/2024 22:38	60101	COCA_T1	0	2	2	0	0.1	0.1	0.44	0.36	0	0	0	0	0	0
7/1/2024 22:38	64201	KINZ_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/1/2024 22:38	60801	BUCK_T1	62	55	-7	0.48	0.36	-0.12	-0.17	-0.18	0	0	0	0	0	0
7/1/2024 22:38	60803	BUCK_T1	22	16	-6	0.57	0.45	-0.12	0	0	0	0	0	0	0	0
7/1/2024 22:38	29402	BELT_T1	1	1	0	6.4	7.1	0.7	0	0	0	0	0	0	0	0
7/1/2024 22:38	64203	KINZ_T1	0	0	0	0	0	0	0.74	0.7	0	0	0	0	0	0
7/1/2024 22:38	62105	ELAN_T1	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
7/1/2024 22:38	64202	KINZ_T1	3	3	0	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
7/1/2024 22:38	64204	KINZ_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/1/2024 22:38	59202	THOM_T1	0	10	10	0	0.13	0.13	0	0	0	0	0	0	0	0
7/1/2024 22:38	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/1/2024 22:38	23901	EFMO_T2	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
7/1/2024 22:38	13501	MCMI_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
7/1/2024 22:39	60801	BUCK_T1	62	55	-7	0.48	0.36	-0.12	-0.17	-0.18	0	0	0	0	0	0
7/1/2024 22:39	20401	ASHF_T2	2	4	2	0.25	0.38	0.13	0	0	0	0	0	0	0	0
7/1/2024 22:39	20403	ASHF_T2	0	0	0	0	0	0	0.37	0.32	0	0	0	0	0	0
7/1/2024 22:39	60803	BUCK_T1	22	16	-6	0.57	0.45	-0.12	0	0	0	0	0	0	0	0
7/1/2024 22:39	67805	WLAN_T1	303	0	-303	0.18	0	-0.18	0	0	0	0	0	0	0	0
7/1/2024 22:39	67803	WLAN_T1	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
7/1/2024 22:39	67802	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/1/2024 22:39	13303	ORVI_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
7/1/2024 22:39	67804	WLAN_T1	0	0	0	0	0	0	-0.87	-0.88	0	0	0	0	0	0
7/1/2024 22:39	11103	EGYP_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
7/1/2024 22:40	47401	PENS_T1	0	0	0	0	0	0	1.06	0.99	0	0	0	0	0	0
7/1/2024 22:40	14401	SSLA_T1	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
7/1/2024 22:40	15801	WGAT_T1	527	636	109	0.55	0.67	0.12	0	0	0	0	0	0	0	0
7/1/2024 22:40	57401	SPAN_T1	0	0	0	0	0	0	-0.57	-0.58	1	1	0	600	600	0
7/1/2024 22:40	66504	SMAN_T2	0	0	0	0	0	0	-0.36	-0.43	0	0	0	0	0	0
7/1/2024 22:40	22901	HARW_T1	0	0	0	0	0	0	-0.4	-0.4	1	1	0	1200	1200	0
7/1/2024 22:40	58006	WCAR_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
7/1/2024 22:40	14403	SSLA_T1	3	22	19	0.1	0.16	0.06	0	0	0	0	0	0	0	0
7/1/2024 22:40	44301	BEAV_T2	0	0	0	0	0	0	0.44	0.44	1	1	0	600	600	0
7/1/2024 22:40	44201	POIN_T1	36	176	140	0.17	0.21	0.04	-2.41	-2.42	2	2	0	2100	2100	0
7/1/2024 22:40	56802	BENV_T2	3	4	1	1.57	0.2	-1.37	-0.5	-0.53	0	0	0	0	0	0
7/1/2024 22:40	11904	ETEX_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
7/1/2024 22:40	15803	WGAT_T1	143	185	42	0.44	0.5	0.06	1.26	1.28	0	0	0	0	0	0
7/1/2024 22:40	66505	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
7/1/2024 22:40	66703	STRA_T1	4	2	-2	0.25	0.2	-0.05	-0.18	-0.21	0	0	0	0	0	0
7/1/2024 22:40	21206	ECAR_T2	1	1	0	8	8.4	0.4	0.16	0.12	0	0	0	0	0	0
7/1/2024 22:40	55002	NEWP_T1	4	5	1	0.8	0.88	0.08	-0.19	-0.2	0	0	0	0	0	0
7/1/2024 22:40	63501	HEID_TBK1-2	0	1	1	0	0.3	0.3	1.02	0.86	0	0	0	0	0	0
7/1/2024 22:40	57403	SPAN_T1	0	49	49	0	0.31	0.31	0	0	0	0	0	0	0	0
7/1/2024 22:40	14404	SSLA_T1	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
7/1/2024 22:40	21204	ECAR_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/1/2024 22:40	40802	EXCH_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
7/1/2024 22:40	59101	WALK_T2	0	0	0	0	0	0	0.83	0.88	1	1	0	600	600	0
7/1/2024 22:41	29402	BELT_T1	1	1	0	6.4	7.1	0.7	0	0	0	0	0	0	0	0
7/1/2024 22:41	51002	NHAR_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
7/1/2024 22:41	67605	WARW_T1	0	5	5	0	0.3	0.3	-1.27	-1.22	0	0	0	0	0	0
7/1/2024 22:41	43402	BENT_T1	0	3	3	0	0.17	0.17	0.01	0.01	0	0	0	0	0	0
7/1/2024 22:41	46301	ROHR_T1	311	363	52	0.81	0.93	0.12	0	0	0	0	0	0	0	0
7/1/2024 22:41	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:41	67505	WEWI_T1	0	0	0	0	0	0	0.06	0.05	1	1	0	900	900	0
7/1/2024 22:41	56802	BENV_T2	3	4	1	1.57	0.2	-1.37	-0.5	-0.53	0	0	0	0	0	0
7/1/2024 22:41	58402	MORO_T1	0	0	0	0	0	0	-0.09	-0.12	2	2	0	1500	1500	0
7/1/2024 22:41	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.81	2	2	0	1800	1800	0
7/1/2024 22:41	46302	ROHR_T1	159	184	25	0.38	0.64	0.26	0.26	0.25	0	0	0	0	0	0
7/1/2024 22:41	51004	NHAR_T1	1	1	0	6.3	6.1	-0.2	-1.81	-1.82	0	0	0	0	0	0
7/1/2024 22:42	66901	SHIL_T2	240	346	106	0.33	0.49	0.16	0	-0.02	0	0	0	0	0	0
7/1/2024 22:42	66903	SHIL_T2	80	209	129	0.25	0.28	0.03	0	0	0	0	0	0	0	0
7/1/2024 22:42	57401	SPAN_T1	0	0	0	0	0	0	-0.57	-0.58	1	1	0	600	600	0
7/1/2024 22:42	67502	WEWI_T2	3	0	-3	0.1	0	-0.1	-0.23	-0.26	0	0	0	0	0	0
7/1/2024 22:42	14404	SSLA_T1	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
7/1/2024 22:42	57403	SPAN_T1	0	49	49	0	0.31	0.31	0	0	0	0	0	0	0	0
7/1/2024 22:42	56802	BENV_T2	3	4	1	1.57	0.2	-1.37	-0.5	-0.53	0	0	0	0	0	0
7/1/2024 22:42	14403	SSLA_T1	3	22	19	0.1	0.16	0.06	0.63	0.58	0	0	0	0	0	0
7/1/2024 22:42	66902	SHIL_T2	168	365	197	0.23	0.34	0.11	0	0	0	0	0	0	0	0
7/1/2024 22:42	60802	BUCK_T2	75	55	-20	0.34	0.22	-0.12	0.25	0.24	0	0	0	0	0	0
7/1/2024 22:42	10702	CATA_T2	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
7/1/2024 22:42	16504	STRO_T1	0	1	1	0	0	0	0.85	0.83	0	0	0	0	0	0
7/1/2024 22:42	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:42	60201	ATGL_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
7/1/2024 22:42	56803	BENV_T1	28	57	29	0.69	0.67	-0.02	0	0	0	0	0	0	0	0
7/1/2024 22:42	46101	MACI_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
7/1/2024 22:42	56801	BENV_T1	17	19	2	0.59	1.16	0.57	-0.68	-0.7	1	1	0	600	600	0
7/1/2024 22:42	11103	EGYP_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
7/1/2024 22:43	14601	SWHI_T1	0	0	0	0	0	0	-1.45	-1.48	0	0	0	0	0	0
7/1/2024 22:43	55002	NEWP_T1	4	5	1	0.8	0.88	0.08	-0.19	-0.2	0	0	0	0	0	0
7/1/2024 22:43	23203	HIRU_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
7/1/2024 22:43	67505	WEWI_T1	0	0	0	0	0	0	0.06	0.05	1	1	0	900	900	0
7/1/2024 22:43	26402	INOR_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
7/1/2024 22:43	20603	GRWO_T2	6	13	7	0.12	0.13	0.01	0.44	0.44	0	0	0	0	0	0
7/1/2024 22:43	52401	GRPA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
7/1/2024 22:43	22002	BOHE_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
7/1/2024 22:43	63401	HONY_T1	0	0	0	0	0	0	0.76	0.75	0	0	0	0	0	0
7/1/2024 22:43	66703	STRA_T1	4	2	-2	0.25	0.2	-0.05	-0.18	-0.21	0	0	0	0	0	0
7/1/2024 22:43	46301	ROHR_T1	311	363	52	0.81	0.93	0.12	0.27	0.26	0	0	0	0	0	0
7/1/2024 22:43	46302	ROHR_T1	159	184	25	0.38	0.64	0.26	0	0	0	0	0	0	0	0
7/1/2024 22:43	56503	ROCK_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 22:43	23001	SAJO_T1	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
7/1/2024 22:43	56501	ROCK_T2	3	20	17	0.83	0.28	-0.55	-1.72	-1.75	0	0	0	0	0	0
7/1/2024 22:43	52404	GRPA_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/1/2024 22:43	52402	GRPA_T2	3	4	1	0.23	0.73	0.5	-0.76	-0.76	0	0	0	0	0	0
7/1/2024 22:43	22003	BOHE_T1	192	183	-9	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
7/1/2024 22:43	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
7/1/2024 22:43	26401	INOR_T1	1	1	0	9.2	9.1	-0.1	0	0	0	0	0	0	0	0
7/1/2024 22:44	47101	MARL_T1	0	0	0	0	0	0	-0.76	-0.17	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/1/2024 22:44	61301	EARL_T1	0	0	0	0	0	0	-0.43	-0.43	1	1	0	900	900	0
7/1/2024 22:44	60502	NMAN_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
7/1/2024 22:44	57106	SPHI_T2	3	3	0	1.63	1.77	0.14	0	0	0	0	0	0	0	0
7/1/2024 22:44	67303	WYOM_T2	0	0	0	0	0	0	-1.4	-1.44	0	0	0	0	0	0
7/1/2024 22:44	57101	SPHI_T2	0	6	6	0	0.72	0.72	0	0	0	0	0	0	0	0
7/1/2024 22:44	55002	NEWP_T1	4	5	1	0.8	0.88	0.08	-0.19	-0.2	0	0	0	0	0	0
7/1/2024 22:44	13503	MCMI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
7/1/2024 22:44	14202	EALL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 22:44	58003	WCAR_T1	1	1	0	1	0.9	-0.1	0.79	0.78	0	0	0	0	0	0
7/1/2024 22:44	64201	KINZ_T1	1	1	0	0.7	1	0.3	0.51	0.47	1	1	0	300	300	0
7/1/2024 22:44	43302	WATS_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
7/1/2024 22:44	43304	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/1/2024 22:44	46302	ROHR_T1	159	184	25	0.38	0.64	0.26	0	0	0	0	0	0	0	0
7/1/2024 22:44	47401	PENS_T1	0	0	0	0	0	0	1.06	0.99	0	0	0	0	0	0
7/1/2024 22:44	62105	ELAN_T1	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
7/1/2024 22:44	60501	NMAN_T2	3	3	0	4.27	5	0.73	0	0	0	0	0	0	0	0
7/1/2024 22:44	64202	KINZ_T1	3	3	0	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
7/1/2024 22:44	57401	SPAN_T1	0	0	0	0	0	0	-1.14	-1.17	2	2	0	1200	1200	0
7/1/2024 22:44	57104	SPHI_T2	1	1	0	2.3	2.3	0	-0.83	-0.87	0	0	0	0	0	0
7/1/2024 22:44	14204	EALL_T2	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
7/1/2024 22:44	43301	WATS_T2	0	1	1	0	0.6	0.6	-0.55	-0.58	1	1	0	900	900	0
7/1/2024 22:44	64204	KINZ_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/1/2024 22:44	57403	SPAN_T1	0	49	49	0	0.31	0.31	0	0	0	0	0	0	0	0
7/1/2024 22:44	46301	ROHR_T1	311	363	52	0.81	0.93	0.12	0.27	0.26	0	0	0	0	0	0
7/1/2024 22:44	58001	WCAR_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
7/1/2024 22:45	47101	MARL_T1	0	0	0	0	0	0	-0.76	-0.17	0	0	0	0	0	0
7/1/2024 22:45	60501	NMAN_T2	3	3	0	4.8	5.3	0.5	0	0	0	0	0	0	0	0
7/1/2024 22:45	40602	PIGR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 22:45	40101	HUNT_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
7/1/2024 22:45	56503	ROCK_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/1/2024 22:45	60502	NMAN_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
7/1/2024 22:45	63804	HEMP_T1	1	1	0	5.7	5.6	-0.1	1.17	1.17	0	0	0	0	0	0
7/1/2024 22:45	53803	MBRG_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
7/1/2024 22:45	40502	CRES_T2	24	23	-1	0.35	0.37	0.02	-0.18	-0.2	0	0	0	0	0	0
7/1/2024 22:45	44801	EDAN_T2	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
7/1/2024 22:45	62106	ELAN_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
7/1/2024 22:45	62102	ELAN_T1	0	0	0	0	0	0	0.99	0.91	0	0	0	0	0	0
7/1/2024 22:45	55002	NEWP_T1	4	5	1	1.03	0.92	-0.11	-0.19	-0.2	0	0	0	0	0	0
7/1/2024 22:45	67803	WLAN_T1	0	0	0	0	0	0	-1.3	-1.33	0	0	0	0	0	0
7/1/2024 22:45	40501	CRES_T2	8	8	0	0.16	0.19	0.03	0	0	0	0	0	0	0	0
7/1/2024 22:45	56501	ROCK_T2	20	4	-16	0.27	0.9	0.63	-3.44	-3.49	0	0	0	0	0	0
7/1/2024 22:45	40601	PIGR_T1	318	333	15	0.58	0.7	0.12	-0.08	-0.09	0	0	0	0	0	0
7/1/2024 22:45	15702	TANN_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
7/1/2024 22:45	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:45	15703	TANN_T2	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
7/1/2024 22:45	40603	PIGR_T1	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
7/1/2024 22:45	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
7/1/2024 22:46	56802	BENV_T2	3	1	-2	0.83	0.2	-0.63	-0.5	-0.53	0	0	0	0	0	0
7/1/2024 22:46	47401	PENS_T1	0	0	0	0	0	0	1.06	0.99	0	0	0	0	0	0
7/1/2024 22:46	67803	WLAN_T1	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
7/1/2024 22:46	10707	CATA_T2	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
7/1/2024 22:46	67402	WAKE_T2	0	0	0	0	0	0	0.74	0.7	0	0	0	0	0	0
7/1/2024 22:46	60201	ATGL_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
7/1/2024 22:46	67605	WARW_T1	1	12	11	0.1	0.48	0.38	-1.27	-1.22	0	0	0	0	0	0
7/1/2024 22:46	14202	EALL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 22:46	14204	EALL_T2	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
7/1/2024 22:46	56801	BENV_T1	17	19	2	1.02	1.2	0.18	-1.36	-1.4	2	2	0	1200	1200	0
7/1/2024 22:46	52002	LING_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
7/1/2024 22:46	52006	LING_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
7/1/2024 22:46	56803	BENV_T1	35	66	31	0.74	0.63	-0.11	0	0	0	0	0	0	0	0
7/1/2024 22:46	52004	LING_T2	0	1	1	0	0.1	0.1	0.23	0.22	0	0	0	0	0	0
7/1/2024 22:46	64101	REFR_T1	0	0	0	0	0	0	0.22	0.17	0	0	0	0	0	0
7/1/2024 22:46	56501	ROCK_T2	20	4	-16	0.27	0.9	0.63	-1.72	-1.75	0	0	0	0	0	0
7/1/2024 22:46	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:46	59101	WALK_T2	0	0	0	0	0	0	0.83	0.88	1	1	0	600	600	0
7/1/2024 22:46	44703	MUNC_T2	2	2	0	0.4	0.8	0.4	0.8	0.77	0	0	0	0	0	0
7/1/2024 22:46	65205	PRIN_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
7/1/2024 22:46	47101	MARL_T1	0	0	0	0	0	0	-0.76	-0.17	0	0	0	0	0	0
7/1/2024 22:46	56503	ROCK_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/1/2024 22:46	67401	WAKE_T2	28	24	-4	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
7/1/2024 22:46	46903	MNTG_T2	0	26	26	0	0.17	0.17	-0.03	-0.03	1	1	0	600	600	0
7/1/2024 22:46	15602	NSTR_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
7/1/2024 22:46	63401	HONY_T1	0	0	0	0	0	0	2.27	2.25	0	0	0	0	0	0
7/1/2024 22:46	44702	MUNC_T2	3	14	11	0.17	0.18	0.01	0	0	0	0	0	0	0	0
7/1/2024 22:47	40601	PIGR_T1	318	333	15	0.58	0.7	0.12	0	0	0	0	0	0	0	0
7/1/2024 22:47	40901	JESH_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/1/2024 22:47	56801	BENV_T1	17	19	2	1.02	1.2	0.18	-0.68	-0.7	1	1	0	600	600	0
7/1/2024 22:47	45801	HEGI_T1	0	0	0	0	0	0	-0.02	-0.04	1	1	0	900	900	0
7/1/2024 22:47	56802	BENV_T2	3	1	-2	0.83	0.2	-0.63	-0.5	-0.53	0	0	0	0	0	0
7/1/2024 22:47	52402	GRPA_T2	4	4	0	0.4	0.78	0.38	0	0	0	0	0	0	0	0
7/1/2024 22:47	57303	MOAL_T2	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
7/1/2024 22:47	57302	MOAL_T2	0	0	0	0	0	0	-1.41	-1.43	1	1	0	1200	1200	0
7/1/2024 22:47	14202	EALL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 22:47	40801	EXCH_T2	0	0	0	0	0	0	-0.4	-0.41	1	1	0	1200	1200	0
7/1/2024 22:47	46302	ROHR_T1	169	184	15	0.5	0.64	0.14	0	0	0	0	0	0	0	0
7/1/2024 22:47	12801	MICK_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
7/1/2024 22:47	56803	BENV_T1	35	66	31	0.74	0.63	-0.11	0	0	0	0	0	0	0	0
7/1/2024 22:47	14601	SWHI_T1	0	0	0	0	0	0	-1.45	-1.48	0	0	0	0	0	0
7/1/2024 22:47	12601	MACA_T1	1	2	1	0.5	0.5	0	0.93	0.93	0	0	0	0	0	0
7/1/2024 22:47	46301	ROHR_T1	349	357	8	0.81	0.93	0.12	0.27	0.26	0	0	0	0	0	0
7/1/2024 22:47	52404	GRPA_T2	1	2	1	0.3	0.25	-0.05	-0.27	-0.3	0	0	0	0	0	0
7/1/2024 22:47	40602	PIGR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 22:47	13302	ORVI_T2	0	0	0	0	0	0	-0.04	-0.08	0	0	0	0	0	0
7/1/2024 22:47	52401	GRPA_T2	1	1	0	0.2	0.8	0.6	-0.51	-0.53	0	0	0	0	0	0
7/1/2024 22:47	40902	JESH_T1	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
7/1/2024 22:47	44601	MALE_T2	1	1	0	0.4	0.7	0.3	-0.01	-0.02	0	0	0	0	0	0
7/1/2024 22:47	47101	MARL_T1	0	0	0	0	0	0	-0.76	-0.17	0	0	0	0	0	0
7/1/2024 22:47	47401	PENS_T1	0	0	0	0	0	0	1.06	0.99	0	0	0	0	0	0
7/1/2024 22:47	67401	WAKE_T2	28	24	-4	0.17	0.13	-0.04	-0.64	-0.65	0	0	0	0	0	0
7/1/2024 22:47	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:47	21203	ECAR_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
7/1/2024 22:47	67803	WLAN_T1	0	0	0	0	0	0	-1.3	-1.33	0	0	0	0	0	0
7/1/2024 22:47	40603	PIGR_T1	1	1	0	1.1	0	-1.1	0.43	0.44	0	0	0	0	0	0
7/1/2024 22:47	66703	STRA_T1	1	2	1	0.1	0.2	0.1	-0.18	-0.21	0	0	0	0	0	0
7/1/2024 22:47	14204	EALL_T2	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
7/1/2024 22:48	22602	KIMB_T1	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
7/1/2024 22:48	24201	PROV_T3	1	7	6	6.6	1.1	-5.5	1.24	1.26	1	1	0	1200	1200	0
7/1/2024 22:48	54504	ENOL_T2	0	0	0	0	0	0	-1.67	-1.65	1	1	0	600	600	0
7/1/2024 22:48	56802	BENV_T2	3	1	-2	0.83	0.2	-0.63	-1	-1.06	0	0	0	0	0	0
7/1/2024 22:48	67203	TEHI_T1	0	0	0	0	0	0	2.23	2.19	2	2	0	1500	1500	0
7/1/2024 22:48	12001	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:48	47103	MARL_T2	0	0	0	0	0	0	-0.42	-0.45	0	0	0	0	0	0
7/1/2024 22:48	60501	NMAN_T2	3	3	0	4.8	5.3	0.5	0	0	0	0	0	0	0	0
7/1/2024 22:48	63401	HONY_T1	0	0	0	0	0	0	0.76	0.75	0	0	0	0	0	0
7/1/2024 22:48	42903	MIDD_T2	2	2	0	1.25	0.25	-1	0	0	0	0	0	0	0	0
7/1/2024 22:48	42902	MIDD_T2	0	0	0	0	0	0	-0.76	-0.74	1	1	0	600	600	0
7/1/2024 22:48	56503	ROCK_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/1/2024 22:48	52401	GRPA_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
7/1/2024 22:48	24702	FLND_T2	0	0	0	0	0	0	0.93	1.1	0	0	0	0	0	0
7/1/2024 22:48	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/1/2024 22:48	60502	NMAN_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
7/1/2024 22:48	20401	ASHF_T2	3	5	2	0.33	0.46	0.13	0	0	0	0	0	0	0	0
7/1/2024 22:48	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
7/1/2024 22:48	54505	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/1/2024 22:48	20403	ASHF_T2	0	0	0	0	0	0	0.37	0.32	0	0	0	0	0	0
7/1/2024 22:48	56803	BENV_T1	35	66	31	0.74	0.63	-0.11	0	0	0	0	0	0	0	0
7/1/2024 22:48	60101	COCA_T1	0	2	2	0	0.1	0.1	0.44	0.36	0	0	0	0	0	0
7/1/2024 22:48	12006	HATF_T1	0	0	0	0	0	0	0.62	0.38	1	1	0	1200	1200	0
7/1/2024 22:48	24204	PROV_T3	1	2	1	5.8	2.85	-2.95	0	0	0	0	0	0	0	0
7/1/2024 22:48	67401	WAKE_T2	28	24	-4	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
7/1/2024 22:48	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:48	56501	ROCK_T2	20	4	-16	0.27	0.9	0.63	-1.72	-1.75	0	0	0	0	0	0
7/1/2024 22:48	55101	WERT_T1	0	0	0	0	0	0	-1.26	-1.3	2	2	0	1500	1500	0
7/1/2024 22:48	52404	GRPA_T2	1	2	1	0.3	0.25	-0.05	-0.27	-0.3	0	0	0	0	0	0
7/1/2024 22:48	67402	WAKE_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
7/1/2024 22:48	67303	WYOM_T2	0	0	0	0	0	0	-1.4	-1.44	0	0	0	0	0	0
7/1/2024 22:48	56801	BENV_T1	17	19	2	1.02	1.2	0.18	-0.68	-0.7	1	1	0	600	600	0
7/1/2024 22:48	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:48	47101	MARL_T1	0	0	0	0	0	0	-0.76	-0.17	0	0	0	0	0	0
7/1/2024 22:48	52402	GRPA_T2	4	4	0	0.4	0.78	0.38	0	0	0	0	0	0	0	0
7/1/2024 22:48	47401	PENS_T1	0	0	0	0	0	0	1.06	0.99	0	0	0	0	0	0
7/1/2024 22:49	24902	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:49	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:49	58401	MORO_T1	0	0	0	0	0	0	-0.89	-0.91	1	1	0	600	600	0
7/1/2024 22:49	56503	ROCK_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/1/2024 22:49	47401	PENS_T1	0	0	0	0	0	0	1.06	0.99	0	0	0	0	0	0
7/1/2024 22:49	57403	SPAN_T1	8	49	41	0.19	0.31	0.12	0.16	0.14	0	0	0	0	0	0
7/1/2024 22:49	20601	GRWO_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 22:49	55002	NEWP_T1	4	5	1	1.03	0.92	-0.11	-0.19	-0.2	0	0	0	0	0	0
7/1/2024 22:49	63304	GREE_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
7/1/2024 22:49	56802	BENV_T2	3	1	-2	0.83	0.2	-0.63	-0.5	-0.53	0	0	0	0	0	0
7/1/2024 22:49	24901	WHHA_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
7/1/2024 22:49	59101	WALK_T2	0	0	0	0	0	0	0.83	0.88	1	1	0	600	600	0
7/1/2024 22:49	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
7/1/2024 22:49	12701	MACU_T1	0	0	0	0	0	0	-2.14	-2.17	2	2	0	2400	2400	0
7/1/2024 22:49	20603	GRWO_T2	13	13	0	0.13	0.12	-0.01	0.44	0.44	0	0	0	0	0	0
7/1/2024 22:49	56501	ROCK_T2	20	4	-16	0.27	0.9	0.63	-1.72	-1.75	0	0	0	0	0	0
7/1/2024 22:49	66703	STRA_T1	1	2	1	0.1	0.2	0.1	-0.18	-0.21	0	0	0	0	0	0
7/1/2024 22:49	46101	MACI_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
7/1/2024 22:49	61801	EELI_T2	1	1	0	0.3	0.6	0.3	-0.31	-0.37	0	0	0	0	0	0
7/1/2024 22:49	67001	STHI_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
7/1/2024 22:50	59002	MIFF_T1	6	6	0	0.48	0.8	0.32	0	0	0	0	0	0	0	0
7/1/2024 22:50	66302	MCGO_T2	0	0	0	0	0	0	-0.77	-0.83	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/1/2024 22:50	63801	HEMP_T1	0	0	0	0	0	0	-0.58	-0.58	1	1	0	900	900	0
7/1/2024 22:50	43304	WATS_T2	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
7/1/2024 22:50	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:50	20601	GRWO_T2	0	3	3	0	0.1	0.1	-0.19	-0.2	0	0	0	0	0	0
7/1/2024 22:50	46801	HEPB_T2	2	6	4	0.8	0.37	-0.43	0	0	0	0	0	0	0	0
7/1/2024 22:50	59003	MIFF_T1	1	1	0	0.2	0.6	0.4	0.19	0.16	0	0	0	0	0	0
7/1/2024 22:50	14605	SWHI_T1	0	0	0	0	0	0	1.27	1.23	1	1	0	1200	1200	0
7/1/2024 22:50	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:50	63804	HEMP_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
7/1/2024 22:50	13503	MCMI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
7/1/2024 22:50	58001	WCAR_T1	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
7/1/2024 22:50	40302	TAMA_T3	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
7/1/2024 22:50	54505	ENOL_T2	0	1	1	0	0.4	0.4	-1.11	-1.13	1	1	0	600	600	0
7/1/2024 22:50	55101	WERT_T1	0	0	0	0	0	0	-1.26	-1.3	2	2	0	1500	1500	0
7/1/2024 22:50	57403	SPAN_T1	8	49	41	0.19	0.31	0.12	0.16	0.14	0	0	0	0	0	0
7/1/2024 22:50	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:50	20603	GRWO_T2	13	13	0	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
7/1/2024 22:50	13704	SCHN_T2	1	37	36	0.1	0.25	0.15	0.36	0.35	0	0	0	0	0	0
7/1/2024 22:50	58003	WCAR_T1	1	1	0	0.7	1.2	0.5	0.79	0.78	0	0	0	0	0	0
7/1/2024 22:50	66303	MCGO_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/1/2024 22:50	14403	SSLA_T1	15	24	9	0.15	0.54	0.39	0.63	0.58	0	0	0	0	0	0
7/1/2024 22:50	46803	HEPB_T2	0	1	1	0	0.2	0.2	0.52	0.51	0	0	0	0	0	0
7/1/2024 22:50	43301	WATS_T2	1	1	0	0.2	0.6	0.4	-0.55	-0.58	1	1	0	900	900	0
7/1/2024 22:50	14404	SSLA_T1	1	1	0	5.5	5.8	0.3	0	0	0	0	0	0	0	0
7/1/2024 22:50	67401	WAKE_T2	28	24	-4	0.17	0.13	-0.04	-0.64	-0.65	0	0	0	0	0	0
7/1/2024 22:50	43302	WATS_T2	1	4	3	0.1	0.15	0.05	0	0	0	0	0	0	0	0
7/1/2024 22:50	40802	EXCH_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
7/1/2024 22:50	43402	BENT_T1	3	3	0	0.17	0.13	-0.04	0.01	0.01	0	0	0	0	0	0
7/1/2024 22:50	45702	LIND_T2	0	1	1	0	0.4	0.4	-1.8	-1.82	0	0	0	0	0	0
7/1/2024 22:50	45802	HEGI_T2	44	41	-3	0.9	0.77	-0.13	0.65	0.62	0	0	0	0	0	0
7/1/2024 22:51	65904	SAKR_T2	0	0	0	0	0	0	-1.52	-1.54	3	3	0	1500	1500	0
7/1/2024 22:51	58001	WCAR_T1	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
7/1/2024 22:51	49803	UNIV_T1	34	13	-21	0.13	0.11	-0.02	-1.07	-1.11	0	0	0	0	0	0
7/1/2024 22:51	57103	SPHI_T2	0	0	0	0	0	0	-1.05	-0.95	0	0	0	0	0	0
7/1/2024 22:51	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:51	59101	WALK_T2	0	0	0	0	0	0	0.83	0.88	1	1	0	600	600	0
7/1/2024 22:51	20403	ASHF_T2	0	0	0	0	0	0	0.37	0.32	0	0	0	0	0	0
7/1/2024 22:51	67805	WLAN_T1	0	0	0	0	0	0	-1.33	-1.35	0	0	0	0	0	0
7/1/2024 22:51	21504	CEAV_T1	0	0	0	0	0	0	1.69	1.41	0	0	0	0	0	0
7/1/2024 22:51	65901	SAKR_T2	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
7/1/2024 22:51	24802	VALM_T1	0	0	0	0	0	0	3.44	3.35	0	0	0	0	0	0
7/1/2024 22:51	47101	MARL_T1	0	0	0	0	0	0	-0.76	-0.17	0	0	0	0	0	0
7/1/2024 22:51	44801	EDAN_T2	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
7/1/2024 22:51	20401	ASHF_T2	3	5	2	0.33	0.46	0.13	0	0	0	0	0	0	0	0
7/1/2024 22:51	57101	SPHI_T2	1	6	5	0.1	0.85	0.75	0	0	0	0	0	0	0	0
7/1/2024 22:51	67402	WAKE_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
7/1/2024 22:51	49804	UNIV_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/1/2024 22:51	67401	WAKE_T2	28	24	-4	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
7/1/2024 22:51	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:51	55101	WERT_T1	0	0	0	0	0	0	-1.26	-1.3	2	2	0	1500	1500	0
7/1/2024 22:51	52501	PROG_T1	0	0	0	0	0	0	0.04	0.03	1	1	0	300	300	0
7/1/2024 22:51	58003	WCAR_T1	1	1	0	0.7	1.2	0.5	0.79	0.78	0	0	0	0	0	0
7/1/2024 22:51	57104	SPHI_T2	1	1	0	2.5	2.1	-0.4	0	0	0	0	0	0	0	0
7/1/2024 22:51	57106	SPHI_T2	3	3	0	1.4	1.87	0.47	0	0	0	0	0	0	0	0
7/1/2024 22:51	66201	SISP_T2	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
7/1/2024 22:51	44301	BEAV_T2	0	0	0	0	0	0	0.89	0.77	2	2	0	1200	1200	0
7/1/2024 22:52	40601	PIGR_T1	318	333	15	0.58	0.7	0.12	-0.09	-0.09	0	0	0	0	0	0
7/1/2024 22:52	56803	BENV_T1	35	66	31	0.74	0.63	-0.11	0	0	0	0	0	0	0	0
7/1/2024 22:52	47104	MARL_T1	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
7/1/2024 22:52	56504	ROCK_T2	0	1	1	0	0	0	-0.16	-0.18	0	0	0	0	0	0
7/1/2024 22:52	40603	PIGR_T1	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
7/1/2024 22:52	67204	TEHI_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
7/1/2024 22:52	40902	JESH_T1	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
7/1/2024 22:52	40901	JESH_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/1/2024 22:52	47101	MARL_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
7/1/2024 22:52	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:52	64101	REFR_T1	0	0	0	0	0	0	0.17	0.79	0	0	0	0	0	0
7/1/2024 22:52	56503	ROCK_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/1/2024 22:52	58001	WCAR_T1	0	4	4	0	0.38	0.38	0.82	0.8	0	0	0	0	0	0
7/1/2024 22:52	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:52	56501	ROCK_T2	20	4	-16	0.27	0.9	0.63	0	0	0	0	0	0	0	0
7/1/2024 22:52	58003	WCAR_T1	1	1	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
7/1/2024 22:52	65502	MOJO_T2	0	0	0	0	0	0	-1.81	-0.93	1	0	-1	900	0	-900
7/1/2024 22:52	56804	BENV_T1	17	19	2	1.02	1.2	0.18	-1.4	-1.44	2	2	0	1200	1200	0
7/1/2024 22:52	40801	EXCH_T2	0	0	0	0	0	0	-0.41	-0.42	1	1	0	1200	1200	0
7/1/2024 22:52	13704	SCHN_T2	1	37	36	0.1	0.25	0.15	0.35	0.34	0	0	0	0	0	0
7/1/2024 22:52	10705	CATA_T2	0	0	0	0	0	0	-0.93	-0.96	0	0	0	0	0	0
7/1/2024 22:52	21206	ECAR_T2	1	1	0	8.2	8.4	0.2	0.12	0.09	0	0	0	0	0	0
7/1/2024 22:52	40602	PIGR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 22:52	21204	ECAR_T2	1	1	0	0	0.5	0.5	0	0	0	0	0	0	0	0
7/1/2024 22:52	59101	WALK_T2	0	0	0	0	0	0	0.88	0.83	1	1	0	600	600	0
7/1/2024 22:53	56801	BENV_T1	17	19	2	1.02	1.2	0.18	-0.7	-0.72	1	1	0	600	600	0
7/1/2024 22:53	53802	MBRG_T2	0	0	0	0	0	0	0.5	0.64	0	0	0	0	0	0
7/1/2024 22:53	52004	LING_T2	0	1	1	0	0.1	0.1	0.22	0.21	0	0	0	0	0	0
7/1/2024 22:53	40101	HUNT_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
7/1/2024 22:53	56803	BENV_T1	35	66	31	0.74	0.63	-0.11	0	0	0	0	0	0	0	0
7/1/2024 22:53	40602	PIGR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 22:53	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:53	52002	LING_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
7/1/2024 22:53	52006	LING_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
7/1/2024 22:53	47101	MARL_T1	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
7/1/2024 22:53	40603	PIGR_T1	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
7/1/2024 22:53	55101	WERT_T1	0	0	0	0	0	0	-1.3	-1.25	2	2	0	1500	1500	0
7/1/2024 22:53	43802	SWIL_T1	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
7/1/2024 22:53	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:53	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:53	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:53	67901	WNHO_T2	0	0	0	0	0	0	-0.7	-0.72	1	1	0	900	900	0
7/1/2024 22:53	56503	ROCK_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/1/2024 22:53	40601	PIGR_T1	318	333	15	0.58	0.7	0.12	-0.09	-0.09	0	0	0	0	0	0
7/1/2024 22:53	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:53	56501	ROCK_T2	20	4	-16	0.27	0.9	0.63	-1.75	-1.77	0	0	0	0	0	0
7/1/2024 22:53	43801	SWIL_T1	2	6	4	3.25	1.15	-2.1	0	0	0	0	0	0	0	0
7/1/2024 22:53	23901	EFMO_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
7/1/2024 22:53	58401	MORO_T1	0	0	0	0	0	0	-0.91	-0.94	1	1	0	600	600	0
7/1/2024 22:54	66301	MCGO_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
7/1/2024 22:54	61801	EELI_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
7/1/2024 22:54	58401	MORO_T1	0	0	0	0	0	0	-0.91	-0.94	1	1	0	600	600	0
7/1/2024 22:54	57403	SPAN_T1	8	49	41	0.19	0.31	0.12	0.14	0.12	0	0	0	0	0	0
7/1/2024 22:54	66303	MCGO_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/1/2024 22:54	46801	HEPB_T2	2	6	4	0.8	0.37	-0.43	0	0	0	0	0	0	0	0
7/1/2024 22:54	40901	JESH_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/1/2024 22:54	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:54	67804	WLAN_T1	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
7/1/2024 22:54	58402	MORO_T1	0	0	0	0	0	0	-0.12	-0.18	2	2	0	1500	1500	0
7/1/2024 22:54	61803	EELI_T2	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
7/1/2024 22:54	24104	EHAZ_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	1200	1200	0
7/1/2024 22:54	55101	WERT_T1	0	0	0	0	0	0	-1.3	-1.25	2	2	0	1500	1500	0
7/1/2024 22:54	44801	EDAN_T2	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
7/1/2024 22:54	40802	EXCH_T2	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
7/1/2024 22:54	40902	JESH_T1	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
7/1/2024 22:54	46803	HEPB_T2	0	1	1	0	0.2	0.2	0.51	0.51	0	0	0	0	0	0
7/1/2024 22:54	24105	EHAZ_T1	4	5	1	6.13	6.05	-0.08	0	0	0	0	0	0	0	0
7/1/2024 22:55	49804	UNIV_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/1/2024 22:55	52501	PROG_T1	0	0	0	0	0	0	0.03	0.02	1	1	0	300	300	0
7/1/2024 22:55	52503	PROG_T2	0	0	0	0	0	0	-1.12	-1.15	2	2	0	1800	1800	0
7/1/2024 22:55	59101	WALK_T2	0	0	0	0	0	0	0.88	0.83	1	1	0	600	600	0
7/1/2024 22:55	56803	BENV_T1	35	66	31	0.74	0.63	-0.11	0	0	0	0	0	0	0	0
7/1/2024 22:55	44801	EDAN_T2	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
7/1/2024 22:55	42902	MIDD_T2	0	0	0	0	0	0	-0.74	-0.75	1	1	0	600	600	0
7/1/2024 22:55	49803	UNIV_T1	34	13	-21	0.13	0.11	-0.02	-1.07	-1.11	0	0	0	0	0	0
7/1/2024 22:55	56801	BENV_T1	17	19	2	1.02	1.2	0.18	-1.4	-1.44	2	2	0	1200	1200	0
7/1/2024 22:55	61102	BERK_T5	0	0	0	0	0	0	1.14	1.09	1	1	0	300	300	0
7/1/2024 22:55	42903	MIDD_T2	2	2	0	1.25	0.25	-1	0	0	0	0	0	0	0	0
7/1/2024 22:56	24204	PROV_T3	1	2	1	5.8	2.85	-2.95	0	0	0	0	0	0	0	0
7/1/2024 22:56	63804	GREE_T1	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
7/1/2024 22:56	24201	PROV_T3	1	7	6	6.6	1.1	-5.5	-1.26	-1.27	1	1	0	1200	1200	0
7/1/2024 22:56	43301	WATS_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
7/1/2024 22:56	55002	NEWP_T1	4	5	1	1.03	0.92	-0.11	-0.2	-0.21	0	0	0	0	0	0
7/1/2024 22:56	43304	WATS_T2	0	0	0	0	0	0	-0.19	-0.23	0	0	0	0	0	0
7/1/2024 22:56	59101	WALK_T2	0	0	0	0	0	0	0.88	0.83	1	1	0	600	600	0
7/1/2024 22:56	46801	HEPB_T2	2	6	4	0.8	0.37	-0.43	0.69	0.67	0	0	0	0	0	0
7/1/2024 22:56	57306	MOAL_T2	0	0	0	0	0	0	-3	-3.01	1	1	0	1200	1200	0
7/1/2024 22:56	57303	MOAL_T2	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
7/1/2024 22:56	46803	HEPB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/1/2024 22:56	43302	WATS_T2	1	4	3	0.1	0.15	0.05	0	0	0	0	0	0	0	0
7/1/2024 22:56	64101	REFR_T1	0	0	0	0	0	0	0.06	0.26	0	0	0	0	0	0
7/1/2024 22:56	55003	NEWP_T2	0	4	4	0	0.15	0.15	-0.09	-0.1	0	0	0	0	0	0
7/1/2024 22:57	52006	LING_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
7/1/2024 22:57	52402	GRPA_T2	4	4	0	0.4	0.78	0.38	0	0	0	0	0	0	0	0
7/1/2024 22:57	52004	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/1/2024 22:57	52401	GRPA_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
7/1/2024 22:57	52404	GRPA_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
7/1/2024 22:57	52002	LING_T2	1	1	0	0.2	0.6	0.4	0.14	0.12	0	0	0	0	0	0
7/1/2024 22:57	52403	GRPA_T2	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
7/1/2024 22:57	41902	REED_T1	0	0	0	0	0	0	2.12	2.09	0	0	0	0	0	0
7/1/2024 22:58	40801	EXCH_T2	0	0	0	0	0	0	-0.41	-0.42	1	1	0	1200	1200	0
7/1/2024 22:58	52403	GRPA_T2	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
7/1/2024 22:58	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/1/2024 22:58	55101	WERT_T1	0	0	0	0	0	0	-1.3	-1.25	2	2	0	1500	1500	0
7/1/2024 22:58	40101	HUNT_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
7/1/2024 22:58	52402	GRPA_T2	4	4	0	0.4	0.78	0.38	0	0	0	0	0	0	0	0
7/1/2024 22:58	56803	BENV_T1	35	66	31	0.74	0.63	-0.11	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/1/2024 22:58	47401	PENS_T1	0	0	0	0	0	0	0.99	0.96	0	0	0	0	0	0
7/1/2024 22:58	56801	BENV_T1	17	19	2	1.02	1.2	0.18	-0.7	-0.72	1	1	0	600	600	0
7/1/2024 22:58	40802	EXCH_T2	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
7/1/2024 22:58	52401	GRPA_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
7/1/2024 22:58	52404	GRPA_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
7/1/2024 22:58	44301	BEAV_T2	0	0	0	0	0	0	0.44	0.38	1	1	0	600	600	0
7/1/2024 22:59	42902	MIDD_T2	0	0	0	0	0	0	-0.74	-0.75	1	1	0	600	600	0
7/1/2024 22:59	52404	GRPA_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
7/1/2024 22:59	46302	ROHR_T1	169	184	15	0.5	0.64	0.14	0.25	0.25	0	0	0	0	0	0
7/1/2024 22:59	52402	GRPA_T2	4	4	0	0.4	0.78	0.38	-0.76	-0.76	0	0	0	0	0	0
7/1/2024 22:59	46301	ROHR_T1	349	357	8	0.81	0.93	0.12	0	0	0	0	0	0	0	0
7/1/2024 22:59	42903	MIDD_T2	2	2	0	1.25	0.25	-1	0	0	0	0	0	0	0	0
7/1/2024 22:59	52401	GRPA_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
7/1/2024 23:00	46901	MNTG_T2	0	0	0	0	0	0	1.3	1.06	0	0	0	0	0	0
7/1/2024 23:00	47401	PENS_T1	0	0	0	0	0	0	0.99	0.96	0	0	0	0	0	0
7/1/2024 23:00	46903	MNTG_T2	0	27	27	0	0.17	0.17	0	0	0	0	0	0	0	0
7/1/2024 23:03	43402	BENT_T1	3	0	-3	0.13	0	-0.13	0.01	0	0	0	0	0	0	0
7/1/2024 23:10	52503	PROG_T2	0	0	0	0	0	0	-0.58	-0.59	1	1	0	900	900	0
7/1/2024 23:19	41902	REED_T1	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
7/1/2024 23:20	41902	REED_T1	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
7/1/2024 23:25	43402	BENT_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
7/1/2024 23:26	43402	BENT_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
7/1/2024 23:35	57401	SPAN_T1	0	2	2	0	0.2	0.2	-0.71	-0.64	1	1	0	600	600	0
7/1/2024 23:35	57403	SPAN_T1	52	170	118	0.26	0.34	0.08	0	0	0	0	0	0	0	0
7/1/2024 23:37	57403	SPAN_T1	52	170	118	0.26	0.34	0.08	0	0	0	0	0	0	0	0
7/1/2024 23:37	57401	SPAN_T1	0	2	2	0	0.2	0.2	-0.64	-0.68	1	1	0	600	600	0
7/1/2024 23:47	43402	BENT_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/1/2024 23:48	43402	BENT_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/1/2024 23:49	28403	HART_T2	0	0	0	0	0	0	-0.79	-0.8	1	1	0	900	900	0
7/2/2024 0:21	61301	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
7/2/2024 0:32	43402	BENT_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
7/2/2024 0:33	43402	BENT_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
7/2/2024 0:45	22901	HARW_T1	0	0	0	0	0	0	-0.55	-0.44	1	1	0	1200	1200	0
7/2/2024 0:55	52404	GRPA_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/2/2024 0:55	52401	GRPA_T2	1	3	2	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
7/2/2024 0:55	52403	GRPA_T2	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
7/2/2024 0:55	52402	GRPA_T2	4	4	0	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
7/2/2024 2:09	65901	SAKR_T2	1	1	0	8.5	8.6	0.1	-1.01	-1.02	1	1	0	900	900	0
7/2/2024 2:37	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 3:17	11104	EGYP_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
7/2/2024 3:54	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
7/2/2024 3:55	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
7/2/2024 4:07	67605	WARW_T1	34	27	-7	0.65	0.71	0.06	-1.27	-1.25	0	0	0	0	0	0
7/2/2024 4:07	64202	KINZ_T1	139	81	-58	0.51	0.43	-0.08	0	0	0	0	0	0	0	0
7/2/2024 4:07	64201	KINZ_T1	307	126	-181	0.44	0.45	0.01	0	0	0	0	0	0	0	0
7/2/2024 4:07	64203	KINZ_T1	459	167	-292	0.4	0.28	-0.12	0.59	0.57	0	0	0	0	0	0
7/2/2024 4:07	64204	KINZ_T1	127	69	-58	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
7/2/2024 4:36	22701	MINO_T1	0	0	0	0	0	0	-1.05	-1.06	1	1	0	600	600	0
7/2/2024 4:48	56501	ROCK_T2	2	2	0	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
7/2/2024 4:48	56504	ROCK_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
7/2/2024 4:59	65604	QVIL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/2/2024 4:59	65603	QVIL_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
7/2/2024 6:18	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
7/2/2024 8:08	56803	BENV_T1	5	6	1	0.52	0.44	-0.08	0	0	0	0	0	0	0	0
7/2/2024 8:08	56802	BENV_T2	2	1	-1	0.55	0.9	0.35	-1.29	-1.25	0	0	0	0	0	0
7/2/2024 8:08	56801	BENV_T1	26	19	-7	0.8	0.68	-0.12	-0.14	-0.12	0	0	0	0	0	0
7/2/2024 8:09	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 8:09	56802	BENV_T2	2	1	-1	0.55	0.9	0.35	-1.29	-1.25	0	0	0	0	0	0
7/2/2024 8:10	56801	BENV_T1	26	19	-7	0.8	0.68	-0.12	-0.14	-0.12	0	0	0	0	0	0
7/2/2024 8:10	56803	BENV_T1	5	6	1	0.52	0.44	-0.08	0	0	0	0	0	0	0	0
7/2/2024 8:10	40505	CRES_T1	3	3	0	5.5	5.57	0.07	0	0	0	0	0	0	0	0
7/2/2024 8:10	40504	CRES_T1	0	0	0	0	0	0	-1.55	-1.52	0	0	0	0	0	0
7/2/2024 8:11	40504	CRES_T1	0	0	0	0	0	0	-1.55	-1.52	0	0	0	0	0	0
7/2/2024 8:11	40505	CRES_T1	3	3	0	5.5	5.57	0.07	0	0	0	0	0	0	0	0
7/2/2024 8:13	46602	LACR_T1	4	0	-4	0.1	0	-0.1	-0.89	-0.89	0	0	0	0	0	0
7/2/2024 8:14	43202	MVIL_T2	90	114	24	0.67	1.18	0.51	-0.58	-0.57	0	0	0	0	0	0
7/2/2024 8:15	44703	MUNC_T2	2	2	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/2/2024 8:15	44701	MUNC_T2	0	0	0	0	0	0	-1.25	-1.25	0	0	0	0	0	0
7/2/2024 8:15	47802	MOCA_T2	0	1	1	0	0.3	0.3	-0.75	-0.74	0	0	0	0	0	0
7/2/2024 8:15	13502	MCMI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 8:15	13501	MCMI_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
7/2/2024 8:15	40101	HUNT_T2	0	0	0	0	0	0	-0.14	-0.11	0	0	0	0	0	0
7/2/2024 8:16	53803	MBRG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 8:16	43202	MVIL_T2	114	120	6	1.14	1.27	0.13	-0.58	-0.57	0	0	0	0	0	0
7/2/2024 8:16	64101	REFR_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
7/2/2024 8:16	53801	MBRG_T2	0	1	1	0	0.3	0.3	-1.68	-1.66	0	0	0	0	0	0
7/2/2024 8:18	43202	MVIL_T2	114	120	6	1.14	1.27	0.13	-0.58	-0.57	0	0	0	0	0	0
7/2/2024 8:18	47802	MOCA_T2	0	1	1	0	0.3	0.3	-0.75	-0.74	0	0	0	0	0	0
7/2/2024 8:18	17002	MIRO_T2	2	2	0	0.55	0.5	-0.05	0.7	0.78	0	0	0	0	0	0
7/2/2024 8:19	46302	ROHR_T1	66	46	-20	0.38	0.39	0.01	0.22	0.22	0	0	0	0	0	0
7/2/2024 8:19	64101	REFR_T1	0	0	0	0	0	0	1.05	1.17	0	0	0	0	0	0
7/2/2024 8:19	46301	ROHR_T1	300	298	-2	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
7/2/2024 8:20	67804	WLAN_T1	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
7/2/2024 8:20	64101	REFR_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
7/2/2024 8:21	67804	WLAN_T1	0	0	0	0	0	0	-1	-0.99	0	0	0	0	0	0
7/2/2024 8:21	64101	REFR_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
7/2/2024 8:21	46301	ROHR_T1	300	298	-2	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
7/2/2024 8:21	46302	ROHR_T1	66	46	-20	0.38	0.39	0.01	0.22	0.23	0	0	0	0	0	0
7/2/2024 8:22	15703	TANN_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
7/2/2024 8:22	15702	TANN_T2	0	0	0	0	0	0	-0.39	-0.33	0	0	0	0	0	0
7/2/2024 8:22	64101	REFR_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
7/2/2024 8:22	67804	WLAN_T1	0	0	0	0	0	0	-1	-0.99	0	0	0	0	0	0
7/2/2024 8:23	67804	WLAN_T1	0	0	0	0	0	0	-1	-0.99	0	0	0	0	0	0
7/2/2024 8:31	58402	MORO_T1	1	0	-1	0.1	0	-0.1	-0.76	-0.74	3	3	0	2400	2400	0
7/2/2024 8:31	13302	ORVI_T2	0	1	1	0	0.6	0.6	1.47	1.61	0	0	0	0	0	0
7/2/2024 8:32	58402	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/2/2024 8:32	13302	ORVI_T2	0	1	1	0	0.6	0.6	1.47	1.61	0	0	0	0	0	0
7/2/2024 8:32	58401	MORO_T1	0	0	0	0	0	0	-1.78	-1.74	2	2	0	1200	1200	0
7/2/2024 8:33	16605	PONO_T1	0	0	0	0	0	0	-0.24	-0.23	1	1	0	1200	1200	0
7/2/2024 8:37	58001	WCAR_T1	4	4	0	0.73	0.9	0.17	0	0	0	0	0	0	0	0
7/2/2024 8:37	20403	ASHF_T2	1	1	0	0.1	0.1	0	1.42	1.5	0	0	0	0	0	0
7/2/2024 8:37	58003	WCAR_T1	1	4	3	1.4	0.6	-0.8	0.08	0.09	1	1	0	600	600	0
7/2/2024 8:37	20401	ASHF_T2	3	3	0	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
7/2/2024 8:38	10901	COOP_T2	0	0	0	0	0	0	0.04	0.08	1	1	0	1200	1200	0
7/2/2024 8:39	56802	BENV_T2	1	1	0	0.3	0.1	-0.2	-0.6	-0.58	0	0	0	0	0	0
7/2/2024 8:39	44301	BEAV_T2	1	0	-1	0.6	0	-0.6	0.4	0.51	2	2	0	1500	1500	0
7/2/2024 8:40	20403	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/2/2024 8:40	21203	ECAR_T1	0	1	1	0	0.1	0.1	0.77	0.86	0	0	0	0	0	0
7/2/2024 8:40	20401	ASHF_T2	3	3	0	0.27	0.25	-0.02	-0.07	-0.06	0	0	0	0	0	0
7/2/2024 8:41	44301	BEAV_T2	1	0	-1	0.6	0	-0.6	0.4	0.51	2	2	0	1500	1500	0
7/2/2024 8:45	64904	MILL_T1	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
7/2/2024 8:49	56501	ROCK_T2	3	3	0	0.67	0.55	-0.12	-0.46	-0.44	0	0	0	0	0	0
7/2/2024 8:50	67603	WARW_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
7/2/2024 8:50	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 8:50	41902	REED_T1	0	0	0	0	0	0	1.18	1.17	0	0	0	0	0	0
7/2/2024 8:50	59101	WALK_T2	0	1	1	0	0.4	0.4	3.67	4.22	0	0	0	0	0	0
7/2/2024 8:50	67605	WARW_T1	13	13	0	0.43	0.42	-0.01	-1.77	-1.71	0	0	0	0	0	0
7/2/2024 8:51	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 8:51	59101	WALK_T2	0	1	1	0	0.4	0.4	1.83	2.11	0	0	0	0	0	0
7/2/2024 8:51	56501	ROCK_T2	3	3	0	0.67	0.55	-0.12	-0.92	-0.88	0	0	0	0	0	0
7/2/2024 8:51	41902	REED_T1	0	0	0	0	0	0	1.18	1.17	0	0	0	0	0	0
7/2/2024 8:53	59101	WALK_T2	0	1	1	0	0.4	0.4	2.11	2.19	0	0	0	0	0	0
7/2/2024 8:53	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 8:58	25402	LAHA_T2	0	0	0	0	0	0	-0.56	-0.51	0	0	0	0	0	0
7/2/2024 9:00	67605	WARW_T1	13	11	-2	0.37	0.39	0.02	0	0	0	0	0	0	0	0
7/2/2024 9:00	67603	WARW_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
7/2/2024 9:02	13503	MCMI_T2	1	1	0	0.2	0.6	0.4	0.04	0.05	0	0	0	0	0	0
7/2/2024 9:02	60504	NMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/2/2024 9:02	60502	NMAN_T2	0	0	0	0	0	0	0	0.13	0	0	0	0	0	0
7/2/2024 9:02	60501	NMAN_T2	3	3	0	4.67	4.77	0.1	0	0	0	0	0	0	0	0
7/2/2024 9:03	67201	TEHI_T1	7	0	-7	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/2/2024 9:03	67203	TEHI_T1	4	4	0	0.48	0	-0.48	2.69	2.17	3	3	0	2100	2100	0
7/2/2024 9:03	55002	NEWP_T1	10	8	-2	0.8	0.91	0.11	-0.17	-0.16	0	0	0	0	0	0
7/2/2024 9:04	55002	NEWP_T1	10	8	-2	0.8	0.91	0.11	-0.17	-0.16	0	0	0	0	0	0
7/2/2024 9:05	55002	NEWP_T1	10	8	-2	0.8	0.91	0.11	-0.34	-0.33	0	0	0	0	0	0
7/2/2024 9:06	16302	ALPA_T1	0	0	0	0	0	0	-0.15	-0.11	0	0	0	0	0	0
7/2/2024 9:06	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	1.5	1.28	0	0	0	0	0	0
7/2/2024 9:06	20401	ASHF_T2	3	3	0	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
7/2/2024 9:07	56802	BENV_T2	1	4	3	0.1	0.2	0.1	-0.56	-0.54	0	0	0	0	0	0
7/2/2024 9:09	46206	DANV_T2	1	2	1	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
7/2/2024 9:09	46203	DANV_T2	0	0	0	0	0	0	-1.93	-0.62	0	0	0	0	0	0
7/2/2024 9:11	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	1.28	1.62	0	0	0	0	0	0
7/2/2024 9:11	20401	ASHF_T2	3	3	0	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
7/2/2024 9:12	46203	DANV_T2	0	0	0	0	0	0	-1.93	-0.62	0	0	0	0	0	0
7/2/2024 9:12	54503	ENOL_T2	0	0	0	0	0	0	-1.23	-1.17	1	1	0	600	600	0
7/2/2024 9:12	54504	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/2/2024 9:12	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/2/2024 9:12	46206	DANV_T2	1	2	1	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
7/2/2024 9:13	63401	HONY_T1	0	0	0	0	0	0	2.23	2.32	0	0	0	0	0	0
7/2/2024 9:14	63401	HONY_T1	0	0	0	0	0	0	1.12	1.16	0	0	0	0	0	0
7/2/2024 9:17	58401	MORO_T1	0	0	0	0	0	0	-0.84	-0.83	1	1	0	600	600	0
7/2/2024 9:27	46802	HEPB_T1	1	1	0	0.8	0.9	0.1	-0.17	-0.15	0	0	0	0	0	0
7/2/2024 9:28	11507	FREE_T2	4	2	-2	1.57	0	-1.57	1.18	1.04	0	0	0	0	0	0
7/2/2024 9:29	13502	MCMI_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
7/2/2024 9:29	40101	HUNT_T2	0	0	0	0	0	0	-0.06	-0.15	0	0	0	0	0	0
7/2/2024 9:29	13501	MCMI_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
7/2/2024 9:30	64802	MONE_T2	1	1	0	0.2	0.4	0.2	0.37	0.39	0	0	0	0	0	0
7/2/2024 9:30	57501	LAWN_T3	0	0	0	0	0	0	-0.55	-0.52	0	0	0	0	0	0
7/2/2024 9:31	57501	LAWN_T3	0	0	0	0	0	0	-0.55	-0.52	0	0	0	0	0	0
7/2/2024 9:31	55002	NEWP_T1	7	10	3	1.03	0.82	-0.21	-0.32	-0.31	0	0	0	0	0	0
7/2/2024 9:32	57501	LAWN_T3	0	0	0	0	0	0	-0.55	-0.52	0	0	0	0	0	0
7/2/2024 9:33	64802	MONE_T2	1	1	0	0.2	0.4	0.2	0.37	0.39	0	0	0	0	0	0
7/2/2024 9:33	64101	REFR_T1	0	1	1	0	7.8	7.8	0.08	0.09	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/2/2024 9:34	55002	NEWP_T1	7	10	3	1.03	0.82	-0.21	-0.16	-0.15	0	0	0	0	0	0
7/2/2024 9:35	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 9:35	59101	WALK_T2	1	1	0	0.3	0	-0.3	2.3	1.92	0	0	0	0	0	0
7/2/2024 9:35	55002	NEWP_T1	7	10	3	1.03	0.82	-0.21	-0.16	-0.15	0	0	0	0	0	0
7/2/2024 9:36	50701	SMEC_T1	4	4	0	0.35	0.68	0.33	-1.13	-0.85	0	0	0	0	0	0
7/2/2024 9:37	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 9:37	59101	WALK_T2	1	1	0	0.3	0	-0.3	1.92	2.31	0	0	0	0	0	0
7/2/2024 9:37	67605	WARW_T1	7	4	-3	0.23	0.33	0.1	-0.78	-0.78	0	0	0	0	0	0
7/2/2024 9:47	13501	MCMI_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
7/2/2024 9:47	13502	MCMI_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
7/2/2024 9:48	44601	SALE_T2	1	1	0	0.1	0.1	0	0.14	0.12	1	1	0	600	600	0
7/2/2024 9:48	56501	ROCK_T2	4	4	0	0.23	0.13	-0.1	-0.38	-0.36	0	0	0	0	0	0
7/2/2024 9:48	56504	ROCK_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/2/2024 9:49	15702	TANN_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
7/2/2024 9:49	44601	SALE_T2	1	1	0	0.1	0.1	0	0.14	0.12	1	1	0	600	600	0
7/2/2024 9:49	56501	ROCK_T2	4	4	0	0.23	0.13	-0.1	-0.38	-0.36	0	0	0	0	0	0
7/2/2024 9:49	56504	ROCK_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/2/2024 9:49	15703	TANN_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
7/2/2024 9:51	56504	ROCK_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/2/2024 9:51	56501	ROCK_T2	4	4	0	0.23	0.13	-0.1	-0.76	-0.72	0	0	0	0	0	0
7/2/2024 9:53	15702	TANN_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
7/2/2024 9:53	15703	TANN_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
7/2/2024 9:57	22904	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 9:57	22903	HARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 9:57	22901	HARW_T1	0	0	0	0	0	0	-0.55	-0.55	2	2	0	2400	2400	0
7/2/2024 10:00	67502	WEWI_T2	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
7/2/2024 10:00	46301	ROHR_T1	279	253	-26	0.47	0.36	-0.11	0.62	0.64	0	0	0	0	0	0
7/2/2024 10:00	64204	KINZ_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
7/2/2024 10:00	28102	TWLA_T2	0	3	3	0	0.23	0.23	0.23	0.23	0	0	0	0	0	0
7/2/2024 10:00	64203	KINZ_T1	0	0	0	0	0	0	1.27	1.15	2	2	0	900	900	0
7/2/2024 10:00	67605	WARW_T1	4	2	-2	0.25	0.5	0.25	-0.78	-0.79	0	0	0	0	0	0
7/2/2024 10:00	46302	ROHR_T1	23	13	-10	0.56	0.81	0.25	0.24	0.25	0	0	0	0	0	0
7/2/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.03	0.08	0	0	0	0	0	0
7/2/2024 10:00	40505	CRES_T1	3	3	0	4.73	4.5	-0.23	0.57	0	0	0	0	0	0	0
7/2/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-1.27	-1.27	2	2	0	1800	1800	0
7/2/2024 10:00	59101	WALK_T2	0	0	0	0	0	0	2.31	2.41	0	0	0	0	0	0
7/2/2024 10:01	12301	LANA_T2	0	0	0	0	0	0	0.17	-1.22	0	0	0	0	0	0
7/2/2024 10:06	46301	ROHR_T1	279	253	-26	0.47	0.36	-0.11	0	0	0	0	0	0	0	0
7/2/2024 10:06	46302	ROHR_T1	23	13	-10	0.56	0.81	0.25	0.25	0.25	0	0	0	0	0	0
7/2/2024 10:07	67804	WLAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/2/2024 10:07	67803	WLAN_T1	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
7/2/2024 10:07	59101	WALK_T2	0	0	0	0	0	0	2.41	2.34	0	0	0	0	0	0
7/2/2024 10:08	20401	ASHF_T2	1	2	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
7/2/2024 10:08	50701	SMEC_T1	4	3	-1	0.63	1.03	0.4	-0.92	-0.9	0	0	0	0	0	0
7/2/2024 10:08	56802	BENV_T2	9	7	-2	0.24	0.3	0.06	-0.49	-0.47	0	0	0	0	0	0
7/2/2024 10:08	56803	BENV_T1	5	1	-4	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
7/2/2024 10:08	56801	BENV_T1	17	13	-4	0.5	0.45	-0.05	0	0.02	0	0	0	0	0	0
7/2/2024 10:08	20403	ASHF_T2	3	2	-1	0.37	0.35	-0.02	1.4	1.54	0	0	0	0	0	0
7/2/2024 10:09	20403	ASHF_T2	3	2	-1	0.37	0.35	-0.02	1.4	1.54	0	0	0	0	0	0
7/2/2024 10:09	59101	WALK_T2	0	0	0	0	0	0	7.24	7.03	0	0	0	0	0	0
7/2/2024 10:09	20401	ASHF_T2	1	2	1	0.2	0.7	0.5	0.04	0.07	0	0	0	0	0	0
7/2/2024 10:09	56802	BENV_T2	9	7	-2	0.24	0.3	0.06	-1.46	-1.4	0	0	0	0	0	0
7/2/2024 10:10	56802	BENV_T2	9	7	-2	0.24	0.3	0.06	-0.97	-0.93	0	0	0	0	0	0
7/2/2024 10:10	56801	BENV_T1	17	13	-4	0.5	0.45	-0.05	0	0.02	0	0	0	0	0	0
7/2/2024 10:10	56803	BENV_T1	5	1	-4	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
7/2/2024 10:11	20403	ASHF_T2	3	2	-1	0.37	0.35	-0.02	1.4	1.54	0	0	0	0	0	0
7/2/2024 10:11	20401	ASHF_T2	1	2	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
7/2/2024 10:13	62105	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/2/2024 10:13	62102	ELAN_T1	1	1	0	1.2	1.5	0.3	1	1.03	0	0	0	0	0	0
7/2/2024 10:15	23202	HIRU_T2	0	2	2	0	0.3	0.3	0.11	0.11	0	0	0	0	0	0
7/2/2024 10:15	40101	HUNT_T2	0	3	3	0	0	0	-0.27	-0.29	0	0	0	0	0	0
7/2/2024 10:15	23201	HIRU_T2	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/2/2024 10:15	64802	MONE_T2	1	1	0	0.4	0.2	-0.2	0.41	0.42	0	0	0	0	0	0
7/2/2024 10:15	53802	MBRG_T2	0	0	0	0	0	0	1.69	1.56	0	0	0	0	0	0
7/2/2024 10:15	23203	HIRU_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 10:15	53801	MBRG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 10:16	55002	NEWP_T1	10	10	0	0.76	0.9	0.14	-0.14	-0.14	0	0	0	0	0	0
7/2/2024 10:16	55001	NEWP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/2/2024 10:16	56501	ROCK_T2	4	2	-2	0.13	0.2	0.07	-0.68	-0.65	0	0	0	0	0	0
7/2/2024 10:16	56504	ROCK_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/2/2024 10:17	56501	ROCK_T2	4	2	-2	0.13	0.2	0.07	-0.34	-0.32	0	0	0	0	0	0
7/2/2024 10:17	55001	NEWP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/2/2024 10:17	55002	NEWP_T1	10	10	0	0.76	0.9	0.14	-0.14	-0.14	0	0	0	0	0	0
7/2/2024 10:17	56504	ROCK_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/2/2024 10:18	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 10:18	53501	EVIL_T2	2	3	1	0.35	0.5	0.15	0.04	0.25	2	2	0	800	800	0
7/2/2024 10:18	55002	NEWP_T1	10	10	0	0.76	0.9	0.14	-0.14	-0.14	0	0	0	0	0	0
7/2/2024 10:18	55001	NEWP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/2/2024 10:19	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
7/2/2024 10:19	55002	NEWP_T1	10	10	0	0.76	0.9	0.14	-0.14	-0.14	0	0	0	0	0	0
7/2/2024 10:19	15702	TANN_T2	0	2	2	0	0.3	0.3	-0.25	-0.16	0	0	0	0	0	0
7/2/2024 10:19	56504	ROCK_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/2/2024 10:19	55001	NEWP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/2/2024 10:19	56501	ROCK_T2	4	2	-2	0.13	0.2	0.07	-0.34	-0.32	0	0	0	0	0	0
7/2/2024 10:19	41902	REED_T1	0	0	0	0	0	0	1.21	1.23	0	0	0	0	0	0
7/2/2024 10:20	41902	REED_T1	0	0	0	0	0	0	1.21	1.23	0	0	0	0	0	0
7/2/2024 10:20	13905	SEID_T1	1	1	0	0.2	0.2	0	-0.72	-0.69	1	1	0	1200	1200	0
7/2/2024 10:21	67201	TEHI_T1	8	14	6	0.64	0	-0.64	0	0	0	0	0	0	0	0
7/2/2024 10:21	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
7/2/2024 10:21	15702	TANN_T2	0	2	2	0	0.3	0.3	-0.25	-0.16	0	0	0	0	0	0
7/2/2024 10:21	67203	TEHI_T1	3	4	1	0.63	0.38	-0.25	2.91	3.01	3	3	0	2100	2100	0
7/2/2024 10:23	15702	TANN_T2	0	2	2	0	0.3	0.3	-0.16	-0.19	0	0	0	0	0	0
7/2/2024 10:23	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
7/2/2024 10:24	44301	BEAV_T2	1	15	14	0.5	0.29	-0.21	0.51	0.27	2	2	0	1500	1500	0
7/2/2024 10:24	59101	WALK_T2	0	2	2	0	0.2	0.2	2.34	2.06	0	0	0	0	0	0
7/2/2024 10:25	21203	ECAR_T1	2	2	0	0.5	0.55	0.05	-0.06	-0.06	0	0	0	0	0	0
7/2/2024 10:26	11507	FREE_T2	0	1	1	0	0	0	1.13	1.24	0	0	0	0	0	0
7/2/2024 10:27	25402	LAHA_T2	1	1	0	0.2	0.4	0.2	-0.32	-0.28	0	0	0	0	0	0
7/2/2024 10:30	42902	MIDD_T2	1	1	0	0.4	0.1	-0.3	0.41	0.51	0	0	0	0	0	0
7/2/2024 10:30	42903	MIDD_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
7/2/2024 10:31	42902	MIDD_T2	1	1	0	0.4	0.1	-0.3	0.82	1.01	0	0	0	0	0	0
7/2/2024 10:31	42903	MIDD_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
7/2/2024 10:32	42903	MIDD_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
7/2/2024 10:32	42902	MIDD_T2	1	1	0	0.4	0.1	-0.3	0.82	1.01	0	0	0	0	0	0
7/2/2024 10:33	42902	MIDD_T2	1	1	0	0.4	0.1	-0.3	0.41	0.51	0	0	0	0	0	0
7/2/2024 10:33	13303	ORVI_T1	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
7/2/2024 10:33	42903	MIDD_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
7/2/2024 10:33	64101	REFR_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
7/2/2024 10:34	59101	WALK_T2	0	2	2	0	0.3	0.3	2.34	2.06	0	0	0	0	0	0
7/2/2024 10:34	43304	WATS_T2	0	1	1	0	0.3	0.3	0.61	-0.34	0	0	0	0	0	0
7/2/2024 10:34	67201	TEHI_T1	14	0	-14	0.44	0	-0.44	2.03	1.99	1	1	0	600	600	0
7/2/2024 10:34	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 10:34	67203	TEHI_T1	4	4	0	0.43	0.43	0	0	0	0	0	0	0	0	0
7/2/2024 10:34	42903	MIDD_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
7/2/2024 10:34	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 10:34	42902	MIDD_T2	1	1	0	0.4	0.1	-0.3	0.41	0.51	0	0	0	0	0	0
7/2/2024 10:35	67503	WEWI_T2	0	0	0	0	0	0	0.11	0.16	0	0	0	0	0	0
7/2/2024 10:35	24902	WHHA_T1	0	2	2	0	1.2	1.2	0.6	0.77	0	0	0	0	0	0
7/2/2024 10:35	67502	WEWI_T2	2	2	0	0.8	1	0.2	0.93	0.94	1	1	0	900	900	0
7/2/2024 10:35	64101	REFR_T1	0	0	0	0	0	0	0.35	0.39	0	0	0	0	0	0
7/2/2024 10:35	43301	WATS_T2	0	1	1	0	0.2	0.2	-0.43	-0.41	1	1	0	900	900	0
7/2/2024 10:35	43304	WATS_T2	0	1	1	0	0.3	0.3	0.61	-0.34	0	0	0	0	0	0
7/2/2024 10:36	64101	REFR_T1	0	0	0	0	0	0	0.26	0.31	0	0	0	0	0	0
7/2/2024 10:37	64101	REFR_T1	0	0	0	0	0	0	0.26	0.31	0	0	0	0	0	0
7/2/2024 10:38	43301	WATS_T2	0	1	1	0	0.2	0.2	-0.41	-0.4	1	1	0	900	900	0
7/2/2024 10:38	64101	REFR_T1	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
7/2/2024 10:38	43304	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/2/2024 10:39	58003	WCAR_T1	1	2	1	1.4	0.65	-0.75	0.46	0.49	2	2	0	1200	1200	0
7/2/2024 10:39	60201	ATGL_T2	0	0	0	0	0	0	0.71	0.79	1	1	0	300	300	0
7/2/2024 10:39	58001	WCAR_T1	4	4	0	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
7/2/2024 10:39	67801	WLAN_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
7/2/2024 10:39	67804	WLAN_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/2/2024 10:40	24902	WHHA_T1	0	2	2	0	1.2	1.2	0.77	0.79	0	0	0	0	0	0
7/2/2024 10:41	21204	ECAR_T2	1	2	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 10:41	21206	ECAR_T2	1	9	8	7	6.9	-0.1	0.77	0.96	0	0	0	0	0	0
7/2/2024 10:43	64401	LAND_T1	0	0	0	0	0	0	-1.12	-1.1	1	1	0	600	600	0
7/2/2024 10:45	40101	HUNT_T2	2	21	19	1.05	0.5	-0.55	0.02	-0.01	0	0	0	0	0	0
7/2/2024 10:46	64401	LAND_T1	0	0	0	0	0	0	-1.12	-1.1	1	1	0	600	600	0
7/2/2024 10:46	66301	MCGO_T2	1	1	0	0.1	0.2	0.1	-1.56	-1.49	0	0	0	0	0	0
7/2/2024 10:46	25501	MADI_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
7/2/2024 10:46	66302	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 10:46	25502	MADI_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
7/2/2024 10:46	25503	MADI_T1	20	29	9	0.28	0.22	-0.06	-0.78	-0.76	0	0	0	0	0	0
7/2/2024 10:47	40602	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 10:47	66301	MCGO_T2	1	1	0	0.1	0.2	0.1	-1.56	-1.49	0	0	0	0	0	0
7/2/2024 10:47	40603	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/2/2024 10:47	40601	PIGR_T1	44	11	-33	0.3	0.37	0.07	0.16	0.18	0	0	0	0	0	0
7/2/2024 10:47	66302	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 10:48	66301	MCGO_T2	1	1	0	0.1	0.2	0.1	-1.56	-1.49	0	0	0	0	0	0
7/2/2024 10:48	66302	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 10:49	55001	NEWP_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/2/2024 10:49	55002	NEWP_T1	10	8	-2	0.84	0.73	-0.11	-0.26	-0.25	0	0	0	0	0	0
7/2/2024 10:50	40602	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 10:50	40601	PIGR_T1	44	11	-33	0.3	0.37	0.07	0.16	0.18	0	0	0	0	0	0
7/2/2024 10:50	40603	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/2/2024 10:51	67601	WARW_T2	0	0	0	0	0	0	-0.08	0.05	0	0	0	0	0	0
7/2/2024 10:51	40602	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 10:51	40601	PIGR_T1	44	11	-33	0.3	0.37	0.07	0.16	0.18	0	0	0	0	0	0
7/2/2024 10:51	40603	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/2/2024 10:52	66902	SHIL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/2/2024 10:52	67603	WARW_T1	0	1	1	0	0.5	0.5	0.2	0.22	0	0	0	0	0	0
7/2/2024 10:52	67605	WARW_T1	1	2	1	1	0.7	-0.3	0	0	0	0	0	0	0	0
7/2/2024 10:52	66901	SHIL_T2	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/2/2024 10:52	66903	SHIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/2/2024 10:53	60801	BUCK_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
7/2/2024 10:56	60801	BUCK_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
7/2/2024 10:58	40902	JESH_T1	0	0	0	0	0	0	-0.41	-0.54	2	2	0	1200	1200	0
7/2/2024 10:58	40901	JESH_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
7/2/2024 11:01	64204	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
7/2/2024 11:01	64201	KINZ_T1	0	0	0	0	0	0	0.3	-0.33	3	4	1	1500	2100	600
7/2/2024 11:02	27604	PIRI_T1	0	0	0	0	0	0	0.71	0.72	0	0	0	0	0	0
7/2/2024 11:02	44601	SALE_T2	0	0	0	0	0	0	0.07	0.25	1	1	0	600	600	0
7/2/2024 11:02	46302	ROHR_T1	9	10	1	1.26	1.22	-0.04	0.26	0.26	0	0	0	0	0	0
7/2/2024 11:02	46301	ROHR_T1	171	187	16	0.32	0.32	0	0	0	0	0	0	0	0	0
7/2/2024 11:03	66701	STRA_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 11:03	66702	STRA_T1	0	0	0	0	0	0	-0.09	-0.08	2	2	0	1500	1500	0
7/2/2024 11:03	56801	BENV_T1	5	7	2	0.2	0.37	0.17	0.1	0.14	0	0	0	0	0	0
7/2/2024 11:03	58402	MORO_T1	0	0	0	0	0	0	-1.22	-1.44	6	6	0	4800	4800	0
7/2/2024 11:03	27604	PIRI_T1	0	0	0	0	0	0	0.71	0.72	0	0	0	0	0	0
7/2/2024 11:03	56803	BENV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/2/2024 11:04	66701	STRA_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 11:04	66702	STRA_T1	0	0	0	0	0	0	-0.09	-0.08	2	2	0	1500	1500	0
7/2/2024 11:05	24806	VALM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 11:05	44601	SALE_T2	0	0	0	0	0	0	0.07	0.25	1	1	0	600	600	0
7/2/2024 11:05	24801	VALM_T1	1	0	-1	0.2	0	-0.2	-0.13	-0.19	0	0	0	0	0	0
7/2/2024 11:05	66701	STRA_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 11:05	56803	BENV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/2/2024 11:05	66702	STRA_T1	0	0	0	0	0	0	-0.09	-0.08	2	2	0	1500	1500	0
7/2/2024 11:05	56801	BENV_T1	5	7	2	0.2	0.37	0.17	0.1	0.14	0	0	0	0	0	0
7/2/2024 11:06	66701	STRA_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 11:06	66702	STRA_T1	0	0	0	0	0	0	-0.42	-1.17	10	10	0	7500	7500	0
7/2/2024 11:06	58006	WCAR_T2	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
7/2/2024 11:06	56801	BENV_T1	5	7	2	0.2	0.37	0.17	0.05	0.07	0	0	0	0	0	0
7/2/2024 11:06	57205	ROSS_T1	1	1	0	0.5	1.2	0.7	-0.45	-0.44	1	1	0	900	900	0
7/2/2024 11:06	66201	SISP_T2	0	0	0	0	0	0	-1.14	-1.23	0	0	0	0	0	0
7/2/2024 11:06	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 11:06	56803	BENV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/2/2024 11:07	58001	WCAR_T1	3	3	0	0.23	0.17	-0.06	1.06	1.07	0	0	0	0	0	0
7/2/2024 11:07	56802	BENV_T2	1	2	1	0.5	0.25	-0.25	-0.4	-0.38	0	0	0	0	0	0
7/2/2024 11:07	66702	STRA_T1	0	0	0	0	0	0	-0.08	-0.23	2	2	0	1500	1500	0
7/2/2024 11:07	56801	BENV_T1	5	7	2	0.2	0.37	0.17	0.07	0.09	0	0	0	0	0	0
7/2/2024 11:07	56803	BENV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/2/2024 11:07	58003	WCAR_T1	1	1	0	1	1	0	0.26	0.27	1	1	0	600	600	0
7/2/2024 11:07	66701	STRA_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 11:08	56801	BENV_T1	5	7	2	0.2	0.37	0.17	0.14	0.17	0	0	0	0	0	0
7/2/2024 11:08	56803	BENV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/2/2024 11:08	58001	WCAR_T1	3	3	0	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
7/2/2024 11:08	58003	WCAR_T1	1	1	0	1	1	0	0.52	0.54	2	2	0	1200	1200	0
7/2/2024 11:08	60803	BUCK_T1	0	0	0	0	0	0	-0.65	-0.63	2	2	0	1200	1200	0
7/2/2024 11:09	60803	BUCK_T1	0	0	0	0	0	0	-0.32	-0.31	1	1	0	600	600	0
7/2/2024 11:09	60101	COCA_T1	1	2	1	0.2	0.3	0.1	0.61	0.65	0	0	0	0	0	0
7/2/2024 11:09	58003	WCAR_T1	1	1	0	1	1	0	0.26	0.27	1	1	0	600	600	0
7/2/2024 11:09	58001	WCAR_T1	3	3	0	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
7/2/2024 11:09	60102	COCA_T1	0	2	2	0	1	1	0	0	0	0	0	0	0	0
7/2/2024 11:10	61301	EARL_T1	0	0	0	0	0	0	-1.21	-1.23	2	2	0	1800	1800	0
7/2/2024 11:11	60803	BUCK_T1	0	0	0	0	0	0	-0.32	-0.31	1	1	0	600	600	0
7/2/2024 11:11	12001	HATF_T1	0	0	0	0	0	0	0.97	1.12	1	1	0	600	600	0
7/2/2024 11:12	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 11:12	63804	HEMP_T1	1	1	0	7.4	7.4	0	1.2	1.3	0	0	0	0	0	0
7/2/2024 11:14	47001	HUGH_T2	3	5	2	7.67	4.54	-3.13	-0.2	-0.18	0	0	0	0	0	0
7/2/2024 11:14	63202	MGTN_T2	0	0	0	0	0	0	-0.81	-0.77	1	1	0	900	900	0
7/2/2024 11:15	12001	HATF_T1	0	0	0	0	0	0	0.97	1.12	1	1	0	600	600	0
7/2/2024 11:16	26402	INOR_T1	0	0	0	0	0	0	-1.5	-1.54	1	1	0	600	600	0
7/2/2024 11:16	64201	KINZ_T1	0	0	0	0	0	0	-0.33	-0.25	4	4	0	2100	2100	0
7/2/2024 11:16	64204	KINZ_T1	1	0	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
7/2/2024 11:16	26401	INOR_T1	4	6	2	2.28	2.25	-0.03	0	0	0	0	0	0	0	0
7/2/2024 11:16	47001	HUGH_T2	3	5	2	7.43	4.48	-2.95	-0.2	-0.18	0	0	0	0	0	0
7/2/2024 11:17	56803	BENV_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
7/2/2024 11:17	56801	BENV_T1	6	8	2	0.4	0.29	-0.11	0.07	0.09	0	0	0	0	0	0
7/2/2024 11:18	56801	BENV_T1	6	8	2	0.4	0.29	-0.11	0.34	0.43	0	0	0	0	0	0
7/2/2024 11:18	56803	BENV_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
7/2/2024 11:19	56803	BENV_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
7/2/2024 11:19	56801	BENV_T1	6	8	2	0.4	0.29	-0.11	0.07	0.09	0	0	0	0	0	0
7/2/2024 11:19	12001	HATF_T1	0	0	0	0	0	0	0.97	1.12	1	1	0	600	600	0
7/2/2024 11:20	56801	BENV_T1	6	8	2	0.4	0.29	-0.11	0.07	0.09	0	0	0	0	0	0
7/2/2024 11:20	56803	BENV_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
7/2/2024 11:21	56803	BENV_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
7/2/2024 11:21	56801	BENV_T1	6	8	2	0.4	0.29	-0.11	0.07	0.09	0	0	0	0	0	0
7/2/2024 11:22	67605	WARW_T1	2	2	0	0.7	0.8	0.1	-0.68	-0.66	0	0	0	0	0	0
7/2/2024 11:22	67603	WARW_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/2/2024 11:22	56803	BENV_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
7/2/2024 11:22	56801	BENV_T1	6	8	2	0.4	0.29	-0.11	0.09	-0.5	0	1	1	0	600	600
7/2/2024 11:22	45801	HEGI_T1	0	1	1	0	0	0	0.49	0.77	1	1	0	900	900	0
7/2/2024 11:23	45802	HEGI_T2	0	5	5	0	0	0	0.55	0.46	2	2	0	1200	1200	0
7/2/2024 11:23	67603	WARW_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/2/2024 11:23	45801	HEGI_T1	0	1	1	0	0	0	0.49	0.77	1	1	0	900	900	0
7/2/2024 11:23	67605	WARW_T1	2	2	0	0.7	0.8	0.1	-1.36	-1.33	0	0	0	0	0	0
7/2/2024 11:24	60801	BUCK_T1	0	0	0	0	0	0	0.19	0.41	0	1	1	0	600	600
7/2/2024 11:25	45801	HEGI_T1	0	1	1	0	0	0	0.49	0.77	1	1	0	900	900	0
7/2/2024 11:26	20601	GRWO_T2	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
7/2/2024 11:26	45802	HEGI_T2	0	5	5	0	0	0	0.55	0.46	2	2	0	1200	1200	0
7/2/2024 11:28	20601	GRWO_T2	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
7/2/2024 11:31	47401	PENS_T1	6	6	0	0.92	0.9	-0.02	0.13	0.15	0	0	0	0	0	0
7/2/2024 11:31	47403	PENS_T1	1	1	0	1.7	0.1	-1.6	0	0	0	0	0	0	0	0
7/2/2024 11:31	47402	PENS_T1	2	1	-1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/2/2024 11:35	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 11:35	24801	VALM_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
7/2/2024 11:35	43301	WATS_T2	1	4	3	0.2	0.38	0.18	0	0	0	0	0	0	0	0
7/2/2024 11:35	43304	WATS_T2	0	2	2	0	0.1	0.1	-0.37	-0.96	0	0	0	0	0	0
7/2/2024 11:36	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 11:36	67605	WARW_T1	2	1	-1	0.8	1.5	0.7	-0.68	-0.66	0	0	0	0	0	0
7/2/2024 11:36	67603	WARW_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/2/2024 11:36	43304	WATS_T2	0	2	2	0	0.1	0.1	-0.48	-0.35	0	0	0	0	0	0
7/2/2024 11:36	43301	WATS_T2	1	4	3	0.2	0.38	0.18	0	0	0	0	0	0	0	0
7/2/2024 11:37	67702	WERN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/2/2024 11:37	13704	SCHN_T2	0	1	1	0	0.2	0.2	0.45	0.47	0	0	0	0	0	0
7/2/2024 11:37	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/2/2024 11:38	13704	SCHN_T2	0	1	1	0	0.2	0.2	0.45	0.47	0	0	0	0	0	0
7/2/2024 11:38	67605	WARW_T1	2	1	-1	0.8	1.5	0.7	-0.66	-0.64	0	0	0	0	0	0
7/2/2024 11:38	67603	WARW_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/2/2024 11:39	43304	WATS_T2	0	2	2	0	0.1	0.1	-0.48	-0.35	0	0	0	0	0	0
7/2/2024 11:39	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 11:39	43301	WATS_T2	1	4	3	0.2	0.38	0.18	0	0	0	0	0	0	0	0
7/2/2024 11:39	67603	WARW_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/2/2024 11:39	67605	WARW_T1	2	1	-1	0.8	1.5	0.7	-0.66	-0.64	0	0	0	0	0	0
7/2/2024 11:40	60801	BUCK_T1	0	0	0	0	0	0	-0.41	-0.37	1	1	0	600	600	0
7/2/2024 11:40	24105	EHAZ_T1	4	4	0	6	6.05	0.05	0	0	0	0	0	0	0	0
7/2/2024 11:40	24101	EHAZ_T1	18	19	1	0.32	0.42	0.1	0	0	0	0	0	0	0	0
7/2/2024 11:40	24104	EHAZ_T1	1	0	-1	0.2	0	-0.2	-0.8	-0.79	1	1	0	1200	1200	0
7/2/2024 11:40	24102	EHAZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/2/2024 11:41	63801	HEMP_T1	0	3	3	0	0.43	0.43	-0.16	-0.18	1	1	0	900	900	0
7/2/2024 11:41	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 11:41	63804	HEMP_T1	1	1	0	7.4	6.9	-0.5	0	0	0	0	0	0	0	0
7/2/2024 11:41	63803	HEMP_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/2/2024 11:42	64704	LITI_T1	0	0	0	0	0	0	0.37	0.37	1	1	0	600	600	0
7/2/2024 11:43	24102	EHAZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/2/2024 11:43	24105	EHAZ_T1	4	4	0	6	6.05	0.05	0	0	0	0	0	0	0	0
7/2/2024 11:43	53902	HALI_T2	3	3	0	2.07	2.5	0.43	0	0	0	0	0	0	0	0
7/2/2024 11:43	53903	HALI_T2	4	6	2	0.68	0.72	0.04	0.04	0.04	0	0	0	0	0	0
7/2/2024 11:43	24104	EHAZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 11:43	24101	EHAZ_T1	18	19	1	0.32	0.42	0.1	0	0	0	0	0	0	0	0
7/2/2024 11:43	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 11:43	24103	EHAZ_T1	0	0	0	0	0	0	-0.29	-0.36	0	0	0	0	0	0
7/2/2024 11:44	24702	FLND_T2	3	1	-2	0.17	0.3	0.13	0	0	0	0	0	0	0	0
7/2/2024 11:44	24701	FLND_T2	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
7/2/2024 11:44	22903	HARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 11:44	22901	HARW_T1	0	1	1	0	0.2	0.2	-0.64	-0.76	2	2	0	2400	2400	0
7/2/2024 11:46	64203	KINZ_T1	0	0	0	0	0	0	0.45	0.42	3	3	0	2100	2100	0
7/2/2024 11:46	64204	KINZ_T1	1	0	-1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
7/2/2024 11:48	42201	SHEN_T2	1	0	-1	0.2	0	-0.2	0.32	0.32	1	1	0	600	600	0
7/2/2024 11:48	48302	ORWI_T2	1	2	1	0.1	0.6	0.5	0.29	-0.28	0	0	0	0	0	0
7/2/2024 11:49	58202	NEWV_T1	0	0	0	0	0	0	0.54	0.57	0	0	0	0	0	0
7/2/2024 11:50	48302	ORWI_T2	1	2	1	0.1	0.6	0.5	0.29	-0.28	0	0	0	0	0	0
7/2/2024 11:51	42201	SHEN_T2	1	0	-1	0.2	0	-0.2	0.64	0.64	2	2	0	1200	1200	0
7/2/2024 11:51	29402	BELT_T1	87	28	-59	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
7/2/2024 11:51	29401	BELT_T1	6	0	-6	0.25	0	-0.25	0	0	1	0	-1	900	0	-900
7/2/2024 11:52	66504	SMAN_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/2/2024 11:52	66501	SMAN_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/2/2024 11:52	66502	SMAN_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/2/2024 11:52	66505	SMAN_T2	0	0	0	0	0	0	0.8	0.7	2	2	0	1500	1500	0
7/2/2024 11:54	29401	BELT_T1	6	0	-6	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/2/2024 11:54	67402	WAKE_T2	0	2	2	0	0.3	0.3	0.82	0.55	1	1	0	600	600	0
7/2/2024 11:54	67401	WAKE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 11:54	29402	BELT_T1	87	28	-59	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
7/2/2024 11:56	29402	BELT_T1	87	28	-59	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
7/2/2024 11:56	29401	BELT_T1	6	0	-6	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/2/2024 11:58	20601	GRWO_T2	0	2	2	0	0	0	0.56	0.58	0	0	0	0	0	0
7/2/2024 11:59	53803	MBRG_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
7/2/2024 11:59	53801	MBRG_T2	2	3	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/2/2024 12:01	22905	HARW_T1	0	0	0	0	0	0	-0.6	-0.55	0	0	0	0	0	0
7/2/2024 12:01	22904	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 12:01	22903	HARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 12:01	22901	HARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 12:03	17002	RIRO_T2	3	4	1	0.67	0.75	0.08	0.97	0.93	0	0	0	0	0	0
7/2/2024 12:04	14802	TREI_T2	1	1	0	0.8	2.7	1.9	0	0	0	0	0	0	0	0
7/2/2024 12:04	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/2/2024 12:04	14801	TREI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 12:05	57104	SPHI_T2	2	1	-1	1.1	1.9	0.8	-1.4	-1.41	1	1	0	900	900	0
7/2/2024 12:05	66501	SMAN_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
7/2/2024 12:05	57106	SPHI_T2	3	3	0	0.93	1.07	0.14	0	0	0	0	0	0	0	0
7/2/2024 12:05	66502	SMAN_T2	1	1	0	0.7	0.1	-0.6	0.52	0.55	0	0	0	0	0	0
7/2/2024 12:06	14801	TREI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 12:06	14802	TREI_T2	1	1	0	0.8	2.7	1.9	0	0	0	0	0	0	0	0
7/2/2024 12:07	29402	BELT_T1	28	24	-4	0.7	0.79	0.09	0	0	0	0	0	0	0	0
7/2/2024 12:07	14801	TREI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 12:07	66502	SMAN_T2	1	1	0	0.7	0.1	-0.6	0.55	0.6	0	0	0	0	0	0
7/2/2024 12:07	14802	TREI_T2	1	1	0	0.8	2.7	1.9	0	0	0	0	0	0	0	0
7/2/2024 12:07	67703	WERN_T2	0	1	1	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/2/2024 12:07	57106	SPHI_T2	3	3	0	0.93	1.07	0.14	0	0	0	0	0	0	0	0
7/2/2024 12:07	57103	SPHI_T2	0	0	0	0	0	0	-2.11	-1.53	1	1	0	600	600	0
7/2/2024 12:07	60801	BUCK_T1	0	2	2	0	0.15	0.15	-0.56	-0.56	1	1	0	600	600	0
7/2/2024 12:07	66501	SMAN_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
7/2/2024 12:07	57104	SPHI_T2	2	1	-1	1.1	1.9	0.8	0	0	0	0	0	0	0	0
7/2/2024 12:07	67702	WERN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 12:08	60101	COCA_T1	0	1	1	0	0.4	0.4	0.74	0.77	0	0	0	0	0	0
7/2/2024 12:09	22001	BOHE_T1	3	4	1	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
7/2/2024 12:09	66501	SMAN_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
7/2/2024 12:09	66502	SMAN_T2	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
7/2/2024 12:09	14802	TREI_T2	1	1	0	0.8	2.7	1.9	0	0	0	0	0	0	0	0
7/2/2024 12:09	22003	BOHE_T1	171	105	-66	0.29	0.29	0	-0.16	-0.15	0	0	0	0	0	0
7/2/2024 12:09	14801	TREI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 12:09	66505	SMAN_T2	0	0	0	0	0	0	0.7	0.82	2	2	0	1500	1500	0
7/2/2024 12:10	61702	ELIZ_T2	0	0	0	0	0	0	-1.32	-1.38	2	2	0	1500	1500	0
7/2/2024 12:10	67605	WARW_T1	1	1	0	1.5	1.3	-0.2	-0.63	-0.61	0	0	0	0	0	0
7/2/2024 12:10	60201	ATGL_T2	0	0	0	0	0	0	1.36	1.23	2	2	1	600	600	0
7/2/2024 12:10	67603	WARW_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/2/2024 12:11	60101	COCA_T1	0	1	1	0	0.4	0.4	0.74	0.77	0	0	0	0	0	0
7/2/2024 12:11	22003	BOHE_T1	171	105	-66	0.29	0.29	0	0	0	0	0	0	0	0	0
7/2/2024 12:11	22001	BOHE_T1	3	4	1	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
7/2/2024 12:11	22002	BOHE_T1	0	0	0	0	0	0	0.53	0.58	0	0	0	0	0	0
7/2/2024 12:11	60102	COCA_T1	0	0	0	0	0	0	0.1	0.31	6	6	0	4200	4200	0
7/2/2024 12:12	60101	COCA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/2/2024 12:12	60102	COCA_T1	0	0	0	0	0	0	0.05	0.16	3	3	0	2100	2100	0
7/2/2024 12:14	64204	KINZ_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/2/2024 12:14	64203	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 12:14	64201	KINZ_T1	0	0	0	0	0	0	-0.33	-0.34	4	4	0	2100	2100	0
7/2/2024 12:15	22905	HARW_T1	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
7/2/2024 12:15	67603	WARW_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/2/2024 12:15	67605	WARW_T1	1	1	0	1.3	1.3	0	-0.63	-0.61	0	0	0	0	0	0
7/2/2024 12:15	22904	HARW_T1	0	0	0	0	0	0	-0.53	-0.43	0	0	0	0	0	0
7/2/2024 12:16	56801	BENV_T1	15	6	-9	0.29	0.28	-0.01	-0.48	-0.46	1	1	0	600	600	0
7/2/2024 12:16	56803	BENV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/2/2024 12:19	44703	MUNC_T2	0	0	0	0	0	0	1.12	1.16	0	0	0	0	0	0
7/2/2024 12:20	40602	PIGR_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/2/2024 12:20	40601	PIGR_T1	1	32	31	0.1	0.3	0.2	0.23	0.23	0	0	0	0	0	0
7/2/2024 12:20	40603	PIGR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 12:21	48302	ORWI_T2	2	2	0	0.55	0.5	-0.05	-0.27	-0.26	0	0	0	0	0	0
7/2/2024 12:25	55101	WERT_T1	0	0	0	0	0	0	-2.75	-4.66	6	8	2	4800	6600	1800
7/2/2024 12:26	56802	BENV_T2	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
7/2/2024 12:29	63801	HEMP_T1	3	3	0	0.57	0.13	-0.44	0	0	0	0	0	0	0	0
7/2/2024 12:29	63802	HEMP_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/2/2024 12:29	40101	HUNT_T2	14	77	63	0.36	0.2	-0.16	0.11	-0.14	0	0	0	0	0	0
7/2/2024 12:29	53803	MBRG_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
7/2/2024 12:29	63803	HEMP_T1	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/2/2024 12:29	63804	HEMP_T1	1	1	0	7.1	7.1	0	1.28	1.29	0	0	0	0	0	0
7/2/2024 12:29	53801	MBRG_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/2/2024 12:31	52001	LING_T1	0	1	1	0	0	0	0.55	0.57	0	0	0	0	0	0
7/2/2024 12:31	40101	HUNT_T2	74	13	-61	0.39	0.48	0.09	0.11	0.14	0	0	0	0	0	0
7/2/2024 12:31	65003	NEFF_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/2/2024 12:31	65001	NEFF_T2	0	0	0	0	0	0	0.17	0.07	1	1	0	1200	1200	0
7/2/2024 12:31	65005	NEFF_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/2/2024 12:32	58401	MORO_T1	1	1	0	0.2	0.5	0.3	-0.65	-0.63	1	1	0	600	600	0
7/2/2024 12:32	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 12:32	41902	REED_T1	0	1	1	0	0.5	0.5	1.36	0.53	0	1	1	0	900	900
7/2/2024 12:33	40601	PIGR_T1	32	17	-15	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
7/2/2024 12:33	51004	NHAR_T1	1	1	0	6.6	6.7	0.1	-1.69	-1.68	0	0	0	0	0	0
7/2/2024 12:33	51002	NHAR_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 12:33	40603	PIGR_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/2/2024 12:33	58401	MORO_T1	1	1	0	0.2	0.5	0.3	-1.29	-1.26	2	2	0	1200	1200	0
7/2/2024 12:33	47401	PENS_T1	3	2	-1	1.03	1	-0.03	0.15	0.26	0	0	0	0	0	0
7/2/2024 12:33	47403	PENS_T1	1	1	0	1.9	1.6	-0.3	0	0	0	0	0	0	0	0
7/2/2024 12:33	40602	PIGR_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
7/2/2024 12:34	47401	PENS_T1	3	2	-1	1.03	1	-0.03	0.15	0.26	0	0	0	0	0	0
7/2/2024 12:34	47403	PENS_T1	1	1	0	1.9	1.6	-0.3	0	0	0	0	0	0	0	0
7/2/2024 12:36	24901	WHHA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/2/2024 12:36	24902	WHHA_T1	3	2	-1	1.03	1.2	0.17	0.84	0.84	0	0	0	0	0	0
7/2/2024 12:37	57106	SPHI_T2	3	3	0	1	0.93	-0.07	0	0	0	0	0	0	0	0
7/2/2024 12:37	57103	SPHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 12:37	57101	SPHI_T2	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
7/2/2024 12:37	57104	SPHI_T2	2	3	1	2.95	1.17	-1.78	0	0	0	0	0	0	0	0
7/2/2024 12:38	57103	SPHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 12:38	60101	COCA_T1	1	1	0	0.4	0.7	0.3	0.71	0.73	0	0	0	0	0	0
7/2/2024 12:38	57104	SPHI_T2	2	3	1	2.95	1.17	-1.78	0	0	0	0	0	0	0	0
7/2/2024 12:38	57106	SPHI_T2	3	3	0	1	0.93	-0.07	0	0	0	0	0	0	0	0
7/2/2024 12:38	57101	SPHI_T2	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
7/2/2024 12:39	49803	UNIV_T1	1	0	-1	0.1	0	-0.1	-1.82	-1.83	0	0	0	0	0	0
7/2/2024 12:41	63803	HEMP_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/2/2024 12:41	63804	HEMP_T1	1	1	0	7.1	7.3	0.2	0	0	0	0	0	0	0	0
7/2/2024 12:41	63801	HEMP_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
7/2/2024 12:41	52403	GRPA_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/2/2024 12:41	52402	GRPA_T2	6	4	-2	0.28	0.28	0	0	0	0	0	0	0	0	0
7/2/2024 12:41	52401	GRPA_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
7/2/2024 12:41	63802	HEMP_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
7/2/2024 12:41	60201	ATGL_T2	0	0	0	0	0	0	0.72	0.72	1	1	0	300	300	0
7/2/2024 12:42	24102	EHAZ_T1	1	1	0	0.7	0.3	-0.4	0.24	0.23	0	0	0	0	0	0
7/2/2024 12:42	24101	EHAZ_T1	9	22	13	0.31	0.23	-0.08	0	0	0	0	0	0	0	0
7/2/2024 12:42	24105	EHAZ_T1	4	4	0	6.2	6.18	-0.02	0	0	0	0	0	0	0	0
7/2/2024 12:42	60102	COCA_T1	0	0	0	0	0	0	-0.79	-0.65	3	3	0	2100	2100	0
7/2/2024 12:42	24104	EHAZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/2/2024 12:42	60101	COCA_T1	1	1	0	0.4	0.7	0.3	0.71	0.73	0	0	0	0	0	0
7/2/2024 12:43	63401	HONY_T1	0	0	0	0	0	0	1.3	1.2	2	2	0	1200	1200	0
7/2/2024 12:43	60102	COCA_T1	0	0	0	0	0	0	-1.57	-1.29	6	6	0	4200	4200	0
7/2/2024 12:43	60101	COCA_T1	1	1	0	0.4	0.7	0.3	0.71	0.73	0	0	0	0	0	0
7/2/2024 12:44	52004	LING_T2	1	1	0	1.3	0.2	-1.1	0.48	0.48	0	0	0	0	0	0
7/2/2024 12:44	60101	COCA_T1	1	1	0	0.4	0.7	0.3	0.71	0.73	0	0	0	0	0	0
7/2/2024 12:44	63401	HONY_T1	0	0	0	0	0	0	0.65	0.6	1	1	0	600	600	0
7/2/2024 12:45	52002	LING_T2	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
7/2/2024 12:45	63802	HEMP_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
7/2/2024 12:45	63801	HEMP_T1	3	2	-1	0.13	0.45	0.32	0	0	0	0	0	0	0	0
7/2/2024 12:45	63804	HEMP_T1	1	1	0	7.3	7.1	-0.2	0	0	0	0	0	0	0	0
7/2/2024 12:45	63803	HEMP_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/2/2024 12:45	52004	LING_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/2/2024 12:46	52402	GRPA_T2	3	4	1	0.17	0.28	0.11	0	0	0	0	0	0	0	0
7/2/2024 12:46	52403	GRPA_T2	1	1	0	0.4	0.1	-0.3	0.06	0.06	0	0	0	0	0	0
7/2/2024 12:47	64101	REFR_T1	1	1	0	0.2	0.2	0	0.27	0.35	0	0	0	0	0	0
7/2/2024 12:48	40602	PIGR_T1	0	0	0	0	0	0	-0.16	-0.14	0	0	0	0	0	0
7/2/2024 12:48	40603	PIGR_T1	0	3	3	0	0.45	0.45	0	0	0	0	0	0	0	0
7/2/2024 12:48	43801	SWIL_T1	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
7/2/2024 12:48	43802	SWIL_T1	0	0	0	0	0	0	0.18	0.19	1	1	0	600	600	0
7/2/2024 12:48	40601	PIGR_T1	13	16	3	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
7/2/2024 12:49	64101	REFR_T1	1	1	0	0.2	0.2	0	0.27	0.35	0	0	0	0	0	0
7/2/2024 12:50	65901	SAKR_T2	1	1	0	7.2	7.2	0	-0.65	-0.72	2	2	0	1500	1500	0
7/2/2024 12:51	55102	WERT_T2	0	0	0	0	0	0	-0.9	-1.4	2	2	0	1200	1200	0
7/2/2024 12:51	52004	LING_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/2/2024 12:51	64101	REFR_T1	1	1	0	0.2	0.2	0	0.35	0.37	0	0	0	0	0	0
7/2/2024 12:51	52002	LING_T2	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
7/2/2024 12:51	60801	BUCK_T1	1	0	-1	0.2	0	-0.2	-0.17	-0.42	1	1	0	600	600	0
7/2/2024 12:52	64101	REFR_T1	1	1	0	0.2	0.2	0	0.35	0.37	0	0	0	0	0	0
7/2/2024 12:53	60201	ATGL_T2	0	0	0	0	0	0	0.72	0.72	1	1	0	300	300	0
7/2/2024 12:53	64101	REFR_T1	1	1	0	0.2	0.2	0	0.71	0.74	0	0	0	0	0	0
7/2/2024 12:54	56504	ROCK_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
7/2/2024 12:54	60801	BUCK_T1	1	0	-1	0.2	0	-0.2	-0.17	-0.42	1	1	0	600	600	0
7/2/2024 12:54	56501	ROCK_T2	2	5	3	0.5	0.32	-0.18	0	0	0	0	0	0	0	0
7/2/2024 12:54	44301	BEAV_T2	0	1	1	0	0.3	0.3	0.27	0.51	2	2	0	1500	1500	0
7/2/2024 12:56	56501	ROCK_T2	2	5	3	0.5	0.32	-0.18	-0.06	-1.36	0	0	0	0	0	0
7/2/2024 12:57	56504	ROCK_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
7/2/2024 12:57	24701	FLND_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
7/2/2024 12:57	24702	FLND_T2	1	2	1	1	0.25	-0.75	0	0	0	0	0	0	0	0
7/2/2024 12:57	56501	ROCK_T2	2	5	3	0.5	0.32	-0.18	0	0	0	0	0	0	0	0
7/2/2024 12:58	60102	COCA_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 12:58	60101	COCA_T1	1	1	0	0.7	0.3	-0.4	0.73	0.77	0	0	0	0	0	0
7/2/2024 12:58	56501	ROCK_T2	2	5	3	0.5	0.32	-0.18	-0.06	-1.36	0	0	0	0	0	0
7/2/2024 12:58	56504	ROCK_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
7/2/2024 12:59	63401	HONY_T1	0	0	0	0	0	0	0.6	0.79	1	1	0	600	600	0
7/2/2024 13:00	52004	LING_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/2/2024 13:00	52002	LING_T2	0	0	0	0	0	0	0.48	0.52	0	0	0	0	0	0
7/2/2024 13:01	52002	LING_T2	0	0	0	0	0	0	0.48	0.52	0	0	0	0	0	0
7/2/2024 13:01	52004	LING_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/2/2024 13:02	65001	NEFF_T2	0	0	0	0	0	0	0.11	0.16	1	1	0	1200	1200	0
7/2/2024 13:02	65005	NEFF_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/2/2024 13:02	40101	HUNT_T2	9	79	70	0.76	0.47	-0.29	-0.17	-0.05	0	0	0	0	0	0
7/2/2024 13:02	65003	NEFF_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/2/2024 13:03	59001	MIFF_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/2/2024 13:03	22901	HARW_T1	0	0	0	0	0	0	-0.78	-0.99	3	3	0	3600	3600	0
7/2/2024 13:03	52004	LING_T2	1	1	0	0.2	0.2	0	0.48	0.49	0	0	0	0	0	0
7/2/2024 13:03	59003	MIFF_T1	0	1	1	0	0	0	-0.38	-0.42	0	0	0	0	0	0
7/2/2024 13:03	56802	BENV_T2	0	1	1	0	0.1	0.1	-0.26	-0.27	0	0	0	0	0	0
7/2/2024 13:03	22903	HARW_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/2/2024 13:04	14801	TREI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/2/2024 13:04	14802	TREI_T2	1	1	0	2.1	2.4	0.3	0	0	0	0	0	0	0	0
7/2/2024 13:04	59202	THOM_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 13:05	49803	UNIV_T1	0	0	0	0	0	0	-1.83	-1.72	0	0	0	0	0	0
7/2/2024 13:06	67002	STHI_T2	0	0	0	0	0	0	1.09	1.11	0	0	0	0	0	0
7/2/2024 13:06	67001	STHI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 13:07	67801	WLAN_T1	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
7/2/2024 13:07	59202	THOM_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 13:07	60801	BUCK_T1	0	0	0	0	0	0	-0.42	-0.37	1	1	0	600	600	0
7/2/2024 13:07	67804	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 13:08	67605	WARW_T1	1	1	0	1.1	1	-0.1	-0.72	-0.69	0	0	0	0	0	0
7/2/2024 13:08	20402	ASHF_T2	6	6	0	0.67	0.32	-0.35	0	0	0	0	0	0	0	0
7/2/2024 13:08	20401	ASHF_T2	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
7/2/2024 13:08	20403	ASHF_T2	3	5	2	0.33	0.3	-0.03	1.74	1.8	0	0	0	0	0	0
7/2/2024 13:10	20401	ASHF_T2	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
7/2/2024 13:10	20402	ASHF_T2	6	6	0	0.67	0.32	-0.35	0	0	0	0	0	0	0	0
7/2/2024 13:10	57104	SPHI_T2	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
7/2/2024 13:10	57106	SPHI_T2	3	3	0	0.77	0.57	-0.2	0	0	0	0	0	0	0	0
7/2/2024 13:10	57103	SPHI_T2	1	0	-1	0.2	0	-0.2	-2.69	-2.62	1	1	0	600	600	0
7/2/2024 13:10	20403	ASHF_T2	3	5	2	0.33	0.3	-0.03	1.74	1.8	0	0	0	0	0	0
7/2/2024 13:11	20401	ASHF_T2	2	2	0	0.8	0.85	0.05	0.34	0.35	0	0	0	0	0	0
7/2/2024 13:11	67803	WLAN_T1	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
7/2/2024 13:11	67804	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 13:11	20402	ASHF_T2	6	6	0	0.67	0.32	-0.35	0	0	0	0	0	0	0	0
7/2/2024 13:11	20403	ASHF_T2	3	5	2	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
7/2/2024 13:13	44801	EDAN_T2	1	1	0	1.3	1	-0.3	0.83	0.82	0	0	0	0	0	0
7/2/2024 13:14	22901	HARW_T1	0	0	0	0	0	0	-0.33	-0.34	1	1	0	1200	1200	0
7/2/2024 13:14	22903	HARW_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/2/2024 13:15	60801	BUCK_T1	0	0	0	0	0	0	-0.42	-0.37	1	1	0	600	600	0
7/2/2024 13:15	13503	MCMI_T2	3	3	0	0.6	0.4	-0.2	0.16	0.18	0	0	0	0	0	0
7/2/2024 13:16	48301	ORWI_T1	2	2	0	4	3.6	-0.4	-0.25	-0.15	1	1	0	900	900	0
7/2/2024 13:16	20601	GRWO_T2	47	62	15	0.48	0.53	0.05	0.64	0.66	0	0	0	0	0	0
7/2/2024 13:18	48301	ORWI_T1	2	2	0	4	3.6	-0.4	-0.25	-0.15	1	1	0	900	900	0
7/2/2024 13:20	67001	STHI_T2	1	1	0	0.1	0.1	0	0.43	0.45	0	0	0	0	0	0
7/2/2024 13:20	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/2/2024 13:25	55102	WERT_T2	0	0	0	0	0	0	-1.78	-1.72	2	2	0	1200	1200	0
7/2/2024 13:25	61002	DONV_T2	0	0	0	0	0	0	-0.63	-0.61	2	2	0	1200	1200	0
7/2/2024 13:26	63401	HONY_T1	0	0	0	0	0	0	0.75	0.79	1	1	0	600	600	0
7/2/2024 13:28	46602	LACR_T1	0	1	1	0	1.1	1.1	-0.62	-0.61	0	0	0	0	0	0
7/2/2024 13:30	52002	LING_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
7/2/2024 13:30	52004	LING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 13:31	47401	PENS_T1	2	3	1	0.9	0.4	-0.5	0.38	0.34	0	0	0	0	0	0
7/2/2024 13:31	65205	PRIN_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
7/2/2024 13:31	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/2/2024 13:31	47403	PENS_T1	1	1	0	2.3	1.9	-0.4	0	0	0	0	0	0	0	0
7/2/2024 13:32	52004	LING_T2	1	0	-1	0.2	0	-0.2	0.5	0.51	0	0	0	0	0	0
7/2/2024 13:33	47403	PENS_T1	1	1	0	2.3	1.9	-0.4	0	0	0	0	0	0	0	0
7/2/2024 13:33	47401	PENS_T1	2	3	1	0.9	0.4	-0.5	0.38	0.34	0	0	0	0	0	0
7/2/2024 13:34	52002	LING_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
7/2/2024 13:34	52004	LING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 13:36	47403	PENS_T1	1	1	0	2.3	1.9	-0.4	0	0	0	0	0	0	0	0
7/2/2024 13:36	47401	PENS_T1	2	3	1	0.9	0.4	-0.5	0.34	0.38	0	0	0	0	0	0
7/2/2024 13:37	67303	WYOM_T2	0	0	0	0	0	0	-0.78	-0.83	0	0	0	0	0	0
7/2/2024 13:38	55105	WERT_T1	0	0	0	0	0	0	0.22	0.26	1	1	0	900	900	0
7/2/2024 13:39	46206	DANV_T2	23	25	2	0.4	0.89	0.49	2.2	2.23	2	2	0	2100	2100	0
7/2/2024 13:39	46203	DANV_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/2/2024 13:39	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 13:39	43301	WATS_T2	2	2	0	0.1	0.5	0.4	-0.59	-0.54	2	2	0	1800	1800	0
7/2/2024 13:39	61102	BERK_T5	0	0	0	0	0	0	1.4	1.57	2	2	0	600	600	0
7/2/2024 13:40	60102	COCA_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 13:40	46206	DANV_T2	23	25	2	0.4	0.89	0.49	2.2	2.23	2	2	0	2100	2100	0
7/2/2024 13:40	46203	DANV_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/2/2024 13:40	60101	COCA_T1	1	1	0	0.2	0.6	0.4	0.83	0.87	0	0	0	0	0	0
7/2/2024 13:41	60102	COCA_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 13:41	60101	COCA_T1	1	1	0	0.2	0.6	0.4	0.83	0.87	0	0	0	0	0	0
7/2/2024 13:42	60101	COCA_T1	1	1	0	0.2	0.6	0.4	0.83	0.87	0	0	0	0	0	0
7/2/2024 13:42	60102	COCA_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 13:43	60102	COCA_T1	1	2	1	0.2	0	-0.2	-0.43	-0.52	3	3	0	2100	2100	0
7/2/2024 13:43	60101	COCA_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
7/2/2024 13:44	28403	HART_T2	0	0	0	0	0	0	-0.62	-0.61	1	1	0	900	900	0
7/2/2024 13:46	13502	MCMI_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/2/2024 13:46	48302	ORWI_T2	0	1	1	0	0	0	-0.22	-0.21	0	0	0	0	0	0
7/2/2024 13:47	58401	MORO_T1	0	0	0	0	0	0	-0.85	-1.09	2	2	0	1200	1200	0
7/2/2024 13:47	46206	DANV_T2	24	13	-11	0.41	0.86	0.45	2.2	2.23	2	2	0	2100	2100	0
7/2/2024 13:47	46203	DANV_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/2/2024 13:49	60101	COCA_T1	1	1	0	0.6	0.4	-0.2	0.83	0.87	0	0	0	0	0	0
7/2/2024 13:49	60102	COCA_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/2/2024 13:50	42601	TUSC_T1	1	0	-1	0.1	0	-0.1	-0.38	0	2	2	0	1800	1800	0
7/2/2024 13:50	48303	ORWI_T2	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
7/2/2024 13:50	48302	ORWI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 13:50	57404	SPAN_T2	0	0	0	0	0	0	-0.26	-0.22	1	1	0	1200	1200	0
7/2/2024 13:51	14802	TREI_T2	3	3	0	1.13	1.13	0	0	0	0	0	0	0	0	0
7/2/2024 13:51	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 13:52	56501	ROCK_T2	2	2	0	0.4	0.5	0.1	-1.29	-1.26	0	0	0	0	0	0
7/2/2024 13:53	67702	WERN_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/2/2024 13:53	40301	TAMA_T3	2	2	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
7/2/2024 13:53	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/2/2024 13:53	67701	WERN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/2/2024 13:53	40302	TAMA_T3	0	0	0	0	0	0	-1.07	-1.07	1	1	0	1200	1200	0
7/2/2024 13:53	14802	TREI_T2	3	3	0	1.13	1.13	0	0	0	0	0	0	0	0	0
7/2/2024 13:53	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 13:55	60201	ATGL_T2	0	0	0	0	0	0	0.82	0.16	1	2	1	300	900	600
7/2/2024 13:56	11104	EGYP_T1	6	8	2	1.3	1.17	-0.13	1.26	1.23	0	0	0	0	0	0
7/2/2024 13:56	11102	EGYP_T1	1	1	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
7/2/2024 13:57	11104	EGYP_T1	6	8	2	1.3	1.17	-0.13	1.26	1.23	0	0	0	0	0	0
7/2/2024 13:57	11102	EGYP_T1	1	1	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
7/2/2024 13:59	64204	KINZ_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/2/2024 13:59	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 13:59	64203	KINZ_T1	1	2	1	0.5	0.9	0.4	0.41	0.46	3	3	0	2100	2100	0
7/2/2024 14:01	52403	GRPA_T2	0	3	3	0	0	0	0.17	0.14	0	0	0	0	0	0
7/2/2024 14:01	48302	ORWI_T2	0	1	1	0	0.1	0.1	-0.21	-0.2	0	0	0	0	0	0
7/2/2024 14:01	47401	PENS_T1	2	3	1	0.2	0.4	0.2	0.38	0.39	0	0	0	0	0	0
7/2/2024 14:01	47403	PENS_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
7/2/2024 14:02	52003	LING_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/2/2024 14:02	52001	LING_T1	0	0	0	0	0	0	0.65	0.67	0	0	0	0	0	0
7/2/2024 14:03	52002	LING_T2	0	8	8	0	0	0	0.6	0.59	0	0	0	0	0	0
7/2/2024 14:03	47401	PENS_T1	2	3	1	0.2	0.4	0.2	0.38	0.39	0	0	0	0	0	0
7/2/2024 14:03	64701	UTI_T1	0	0	0	0	0	0	0.74	0.73	0	0	0	0	0	0
7/2/2024 14:03	65604	QVIL_T2	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
7/2/2024 14:03	47403	PENS_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
7/2/2024 14:04	52004	LING_T2	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
7/2/2024 14:04	52002	LING_T2	0	8	8	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 14:04	13503	MCMI_T2	164	3	-161	0.33	2.8	2.47	-1.43	0.4	0	0	0	0	0	0
7/2/2024 14:05	14801	TREI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 14:05	45801	HEGI_T1	0	0	0	0	0	0	-0.17	-0.18	1	1	0	900	900	0
7/2/2024 14:05	14802	TREI_T2	3	3	0	1.1	0.83	-0.27	0	0	0	0	0	0	0	0
7/2/2024 14:07	16301	ALPA_T1	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
7/2/2024 14:07	14802	TREI_T2	3	3	0	1.1	0.83	-0.27	0	0	0	0	0	0	0	0
7/2/2024 14:07	14801	TREI_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 14:07	65604	QVIL_T2	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
7/2/2024 14:08	16302	ALPA_T2	0	4	4	0	0.38	0.38	0.1	0.31	0	0	0	0	0	0
7/2/2024 14:09	29402	BELT_T1	1	5	4	8.8	2.18	-6.62	0	0	0	0	0	0	0	0
7/2/2024 14:09	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 14:10	16302	ALPA_T2	0	4	4	0	0.38	0.38	0.05	0.15	0	0	0	0	0	0
7/2/2024 14:11	41602	CLEV_T1	4	2	-2	0.55	0.2	-0.35	0	0	1	1	0	600	600	0
7/2/2024 14:11	16302	ALPA_T2	0	4	4	0	0.38	0.38	0.05	0.15	0	0	0	0	0	0
7/2/2024 14:12	44801	EDAN_T2	1	2	1	0.9	0.75	-0.15	0.83	0.82	0	0	0	0	0	0
7/2/2024 14:12	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 14:12	41602	CLEV_T1	4	2	-2	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
7/2/2024 14:13	52403	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 14:13	52404	GRPA_T2	0	0	0	0	0	0	0.73	0.64	0	0	0	0	0	0
7/2/2024 14:13	40101	HUNT_T2	95	120	25	0.47	0.42	-0.05	-0.04	0.04	0	0	0	0	0	0
7/2/2024 14:13	44801	EDAN_T2	1	2	1	0.9	0.75	-0.15	0.83	0.82	0	0	0	0	0	0
7/2/2024 14:13	52401	GRPA_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
7/2/2024 14:15	40101	HUNT_T2	110	87	-23	0.47	0.45	-0.02	-0.04	0.04	0	0	0	0	0	0
7/2/2024 14:15	52404	GRPA_T2	0	0	0	0	0	0	0.73	0.64	0	0	0	0	0	0
7/2/2024 14:15	52403	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 14:16	40101	HUNT_T2	110	87	-23	0.47	0.45	-0.02	-0.04	0.04	0	0	0	0	0	0
7/2/2024 14:17	52403	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 14:17	52402	GRPA_T2	0	0	0	0	0	0	-1.3	-1.31	0	0	0	0	0	0
7/2/2024 14:20	14404	SSLA_T1	1	1	0	3.7	3.7	0	0	0	0	0	0	0	0	0
7/2/2024 14:20	64101	REFR_T1	0	0	0	0	0	0	0.8	0.76	0	0	0	0	0	0
7/2/2024 14:20	14403	SSLA_T1	0	0	0	0	0	0	1.53	1.56	0	0	0	0	0	0
7/2/2024 14:20	14402	SSLA_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/2/2024 14:21	61102	BERK_T5	0	0	0	0	0	0	1.34	1.48	2	2	0	600	600	0
7/2/2024 14:21	64101	REFR_T1	0	0	0	0	0	0	0.38	0.47	0	0	0	0	0	0
7/2/2024 14:21	40601	PIGR_T1	8	9	1	0.49	0.42	-0.07	0	0	0	0	0	0	0	0
7/2/2024 14:21	40603	PIGR_T1	2	2	0	0.25	0.15	-0.1	0.69	0.63	0	0	0	0	0	0
7/2/2024 14:22	64101	REFR_T1	0	0	0	0	0	0	0.76	0.93	0	0	0	0	0	0
7/2/2024 14:23	64101	REFR_T1	0	0	0	0	0	0	0.38	0.47	0	0	0	0	0	0
7/2/2024 14:23	61102	BERK_T5	0	0	0	0	0	0	2.01	2.22	3	3	0	900	900	0
7/2/2024 14:24	61102	BERK_T5	0	0	0	0	0	0	0.67	0.74	1	1	0	300	300	0
7/2/2024 14:24	57401	SPAN_T1	2	0	-2	1.35	0	-1.35	-0.96	-0.83	1	1	0	600	600	0
7/2/2024 14:26	20601	GRWO_T2	55	70	15	0.53	0.58	0.05	0.63	0.6	0	0	0	0	0	0
7/2/2024 14:26	61102	BERK_T5	0	0	0	0	0	0	0.67	0.74	1	1	0	300	300	0
7/2/2024 14:28	13503	MCMI_T2	2	3	1	0.65	0.47	-0.18	0.21	0.22	0	0	0	0	0	0
7/2/2024 14:29	11102	EGYP_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/2/2024 14:29	11104	EGYP_T1	7	7	0	1.03	1.2	0.17	1.24	0.91	0	0	0	0	0	0
7/2/2024 14:29	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 14:36	14605	SWHI_T1	0	25	25	0	0.49	0.49	0	0	0	0	0	0	0	0
7/2/2024 14:36	14601	SWHI_T1	0	1	1	0	0.3	0.3	-0.54	-0.89	0	0	0	0	0	0
7/2/2024 14:37	14802	TREI_T2	2	1	-1	0.8	1.6	0.8	0	0	0	0	0	0	0	0
7/2/2024 14:38	14802	TREI_T2	2	1	-1	0.8	1.6	0.8	0	0	0	0	0	0	0	0
7/2/2024 14:39	14802	TREI_T2	2	1	-1	0.8	1.6	0.8	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/2/2024 14:44	53803	MBRG_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
7/2/2024 14:45	24702	FLND_T2	3	3	0	0.5	0.5	0	0.97	0.99	1	1	0	1200	1200	0
7/2/2024 14:46	21901	HUMB_T1	0	1	1	0	0.1	0.1	-1.98	-1.97	0	0	0	0	0	0
7/2/2024 14:50	47401	PENS_T1	2	2	0	0.25	0.6	0.35	0.41	0.38	0	0	0	0	0	0
7/2/2024 14:50	47403	PENS_T1	1	1	0	2	0.9	-1.1	0	0	0	0	0	0	0	0
7/2/2024 14:50	56501	ROCK_T2	2	2	0	0.8	0.35	-0.45	-1.21	-1.19	0	0	0	0	0	0
7/2/2024 14:51	13503	MCMI_T2	3	1	-2	0.47	0.9	0.43	0.22	0.23	0	0	0	0	0	0
7/2/2024 14:51	64101	REFR_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
7/2/2024 14:52	43402	BENT_T1	2	2	0	0.6	0.35	-0.25	-0.5	-0.51	1	1	0	900	900	0
7/2/2024 14:53	43402	BENT_T1	2	2	0	0.6	0.35	-0.25	-0.5	-0.51	1	1	0	900	900	0
7/2/2024 14:53	64101	REFR_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
7/2/2024 14:54	64101	REFR_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
7/2/2024 14:54	24902	WHHA_T1	2	9	7	1.25	1	-0.25	0.89	0.9	0	0	0	0	0	0
7/2/2024 14:56	43402	BENT_T1	2	2	0	0.6	0.35	-0.25	-0.5	-0.51	1	1	0	900	900	0
7/2/2024 14:58	52403	GRPA_T2	0	2	2	0	0	0	0.12	0.13	0	0	0	0	0	0
7/2/2024 14:58	52402	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 15:01	52402	GRPA_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/2/2024 15:01	13503	MCMI_T2	1	10	9	0.9	0.42	-0.48	0.23	0.24	0	0	0	0	0	0
7/2/2024 15:01	52404	GRPA_T2	0	2	2	0	0	0	0.66	0.45	0	0	0	0	0	0
7/2/2024 15:01	52403	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 15:02	52404	GRPA_T2	0	2	2	0	0	0	0.66	0.45	0	0	0	0	0	0
7/2/2024 15:02	52402	GRPA_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/2/2024 15:02	64801	EDAN_T2	1	2	1	1.1	1.3	0.2	0.91	0.88	0	0	0	0	0	0
7/2/2024 15:02	52403	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 15:03	52403	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 15:03	52401	GRPA_T2	0	0	0	0	0	0	-0.35	-0.26	0	0	0	0	0	0
7/2/2024 15:03	52402	GRPA_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/2/2024 15:03	52404	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 15:04	58001	WCAR_T1	5	5	0	0.52	0.6	0.08	0.23	0.33	0	0	0	0	0	0
7/2/2024 15:04	58003	WCAR_T1	3	4	1	0.63	0.75	0.12	0	0	0	0	0	0	0	0
7/2/2024 15:07	60201	ATGL_T2	0	0	0	0	0	0	0.15	0.22	2	2	0	900	900	0
7/2/2024 15:07	57106	SPHI_T2	3	3	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
7/2/2024 15:07	57104	SPHI_T2	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
7/2/2024 15:08	64101	REFR_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
7/2/2024 15:09	58003	WCAR_T1	3	4	1	0.63	0.75	0.12	0	0	0	0	0	0	0	0
7/2/2024 15:09	58001	WCAR_T1	5	5	0	0.52	0.6	0.08	0.33	0.33	0	0	0	0	0	0
7/2/2024 15:10	51604	DUKE_T2	0	1	1	0	0.1	0.1	-0.81	-0.8	1	1	0	900	900	0
7/2/2024 15:10	14204	EALL_T2	0	0	0	0	0	0	-0.39	-0.25	0	0	0	0	0	0
7/2/2024 15:14	64802	MONE_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
7/2/2024 15:15	52002	LING_T2	0	10	10	0	0	0	0.7	0.72	0	0	0	0	0	0
7/2/2024 15:16	12701	MACU_T1	0	0	0	0	0	0	-1.51	-1.5	2	2	0	2400	2400	0
7/2/2024 15:18	47001	HUGH_T2	3	3	0	6.77	6.97	0.2	0.07	0.09	0	0	0	0	0	0
7/2/2024 15:18	48302	ORWI_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
7/2/2024 15:20	48302	ORWI_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
7/2/2024 15:20	56501	ROCK_T2	2	2	0	0.35	0.25	-0.1	-1.16	-1.14	0	0	0	0	0	0
7/2/2024 15:21	66505	SMAN_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/2/2024 15:21	59202	THOM_T1	0	9	9	0	0.33	0.33	0	0	0	0	0	0	0	0
7/2/2024 15:21	66504	SMAN_T2	0	0	0	0	0	0	0.59	0.8	0	0	0	0	0	0
7/2/2024 15:22	66504	SMAN_T2	0	0	0	0	0	0	1.18	1.6	0	0	0	0	0	0
7/2/2024 15:22	66505	SMAN_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/2/2024 15:23	67402	WAKE_T2	2	4	2	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
7/2/2024 15:23	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	-0.57	-0.57	0	0	0	0	0	0
7/2/2024 15:24	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/2/2024 15:24	67402	WAKE_T2	2	4	2	0.3	0.15	-0.15	0.68	0.14	1	1	0	600	600	0
7/2/2024 15:28	20601	GRWO_T2	22	36	14	0.44	0.42	-0.02	0.36	0.34	0	0	0	0	0	0
7/2/2024 15:32	53801	MBRG_T2	0	0	0	0	0	0	-1.5	-1.47	0	0	0	0	0	0
7/2/2024 15:36	42201	SHEN_T2	0	0	0	0	0	0	0.47	0.58	1	1	0	600	600	0
7/2/2024 15:37	24901	WHHA_T1	0	0	0	0	0	0	1.53	1.54	0	0	0	0	0	0
7/2/2024 15:37	24902	WHHA_T1	25	93	68	0.51	0.64	0.13	0	0	0	0	0	0	0	0
7/2/2024 15:39	14802	TREI_T2	1	2	1	0.7	0.85	0.15	0	0	0	0	0	0	0	0
7/2/2024 15:40	60201	ATGL_T2	0	0	0	0	0	0	0.28	0.34	2	2	0	900	900	0
7/2/2024 15:41	13503	MCMI_T2	10	19	9	0.42	0.46	0.04	-0.66	-0.66	0	0	0	0	0	0
7/2/2024 15:46	46802	HEPB_T1	1	0	-1	0.1	0	-0.1	0.18	0.2	0	0	0	0	0	0
7/2/2024 15:47	43202	MVIL_T2	53	52	-1	0.33	0.28	-0.05	-0.38	-0.38	0	0	0	0	0	0
7/2/2024 15:47	65803	RTWN_T2	6	7	1	0.23	0.29	0.06	0	0	0	0	0	0	0	0
7/2/2024 15:47	65802	RTWN_T2	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
7/2/2024 15:48	64101	REFR_T1	0	1	1	0	0	0	0.43	0.44	0	0	0	0	0	0
7/2/2024 15:49	14403	SSLA_T1	1	1	0	0.3	0	-0.3	1.58	1	0	1	1	0	600	600
7/2/2024 15:49	14404	SSLA_T1	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0	0
7/2/2024 15:50	43202	MVIL_T2	53	52	-1	0.33	0.28	-0.05	-0.75	-0.77	0	0	0	0	0	0
7/2/2024 15:50	64101	REFR_T1	0	1	1	0	0	0	0.43	0.44	0	0	0	0	0	0
7/2/2024 15:50	61301	EARL_T1	0	0	0	0	0	0	-1.22	-1.22	2	2	0	1800	1800	0
7/2/2024 15:51	64101	REFR_T1	0	1	1	0	0	0	0.44	-0.12	0	0	0	0	0	0
7/2/2024 15:52	14603	SWHI_T1	1	1	0	0.4	0.1	-0.3	-0.01	-0.01	2	2	0	1200	1200	0
7/2/2024 15:52	14605	SWHI_T1	73	139	66	0.58	0.61	0.03	0	0	0	0	0	0	0	0
7/2/2024 15:58	64501	LAVI_T1	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
7/2/2024 15:58	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 15:58	21206	ECAR_T2	1	7	6	7.5	7.6	0.1	0.12	0.09	0	0	0	0	0	0
7/2/2024 16:02	47401	PENS_T1	2	2	0	0.4	0.45	0.05	1.06	0.93	0	0	0	0	0	0
7/2/2024 16:02	47403	PENS_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
7/2/2024 16:04	65604	QVIL_T2	0	1	1	0	0.1	0.1	0.77	0.78	0	0	0	0	0	0
7/2/2024 16:04	47403	PENS_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
7/2/2024 16:04	47401	PENS_T1	2	2	0	0.4	0.45	0.05	0.35	0.31	0	0	0	0	0	0
7/2/2024 16:06	47403	PENS_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
7/2/2024 16:06	47401	PENS_T1	2	2	0	0.4	0.45	0.05	0.31	0.33	0	0	0	0	0	0
7/2/2024 16:08	67602	WARW_T2	0	0	0	0	0	0	0.4	0.47	2	2	0	1500	1500	0
7/2/2024 16:11	67602	WARW_T2	0	0	0	0	0	0	0.4	0.47	2	2	0	1500	1500	0
7/2/2024 16:14	40901	JESH_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
7/2/2024 16:14	40902	JESH_T1	0	0	0	0	0	0	-1.29	-1.28	2	2	0	1200	1200	0
7/2/2024 16:17	40902	JESH_T1	0	0	0	0	0	0	-1.29	-1.28	2	2	0	1200	1200	0
7/2/2024 16:17	56802	BENV_T2	1	0	-1	0.3	0	-0.3	-0.77	-0.76	0	0	0	0	0	0
7/2/2024 16:17	40901	JESH_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
7/2/2024 16:17	56801	BENV_T1	3	5	2	0.17	0.52	0.35	-0.29	-0.28	1	1	0	600	600	0
7/2/2024 16:18	56803	BENV_T1	0	0	0	0	0	0	-0.38	-0.38	1	1	0	600	600	0
7/2/2024 16:18	47403	PENS_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/2/2024 16:18	47401	PENS_T1	0	2	2	0	0.45	0.45	0.62	0.65	0	0	0	0	0	0
7/2/2024 16:18	56801	BENV_T1	3	5	2	0.17	0.52	0.35	-0.29	-0.28	1	1	0	600	600	0
7/2/2024 16:19	60501	NMAN_T2	3	3	0	3.4	4.37	0.97	0	0	0	0	0	0	0	0
7/2/2024 16:19	60502	NMAN_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
7/2/2024 16:21	60501	NMAN_T2	3	3	0	3.4	4.37	0.97	0	0	0	0	0	0	0	0
7/2/2024 16:21	55101	WERT_T1	0	0	0	0	0	0	-2.11	-2.09	4	4	0	3300	3300	0
7/2/2024 16:21	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 16:21	60502	NMAN_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
7/2/2024 16:22	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.17	1	1	0	600	600	0
7/2/2024 16:28	41303	FISH_T1	1	1	0	2.4	3	0.6	0	0	0	0	0	0	0	0
7/2/2024 16:28	41301	FISH_T1	3	3	0	0.6	1.03	0.43	-0.01	0	0	0	0	0	0	0
7/2/2024 16:29	41301	FISH_T1	3	3	0	0.6	1.03	0.43	-0.01	0	0	0	0	0	0	0
7/2/2024 16:29	41303	FISH_T1	1	1	0	2.4	3	0.6	0	0	0	0	0	0	0	0
7/2/2024 16:36	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
7/2/2024 16:36	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 16:37	59101	WALK_T2	0	1	1	0	0	0	1.52	1.61	1	1	0	600	600	0
7/2/2024 16:38	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
7/2/2024 16:43	63401	HONY_T1	0	0	0	0	0	0	0.04	0.09	1	1	0	600	600	0
7/2/2024 16:54	61703	ELIZ_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
7/2/2024 16:54	61701	ELIZ_T1	1	1	0	2	2	0	0.98	0.91	0	0	0	0	0	0
7/2/2024 16:55	67602	WARW_T2	0	1	1	0	0	0	0.44	0.42	2	2	0	1500	1500	0
7/2/2024 16:55	61701	ELIZ_T1	1	1	0	2	2	0	0.98	0.91	0	0	0	0	0	0
7/2/2024 16:55	61703	ELIZ_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
7/2/2024 16:56	61701	ELIZ_T1	1	1	0	2	2	0	1.97	1.83	0	0	0	0	0	0
7/2/2024 16:56	67602	WARW_T2	0	1	1	0	0	0	0.44	0.42	2	2	0	1500	1500	0
7/2/2024 16:56	61703	ELIZ_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
7/2/2024 16:57	67602	WARW_T2	0	1	1	0	0	0	0.44	0.42	2	2	0	1500	1500	0
7/2/2024 17:01	20603	GRWO_T2	0	0	0	0	0	0	-0.4	-0.4	1	1	0	900	900	0
7/2/2024 17:01	20601	GRWO_T2	2	12	10	0.4	0.4	0	0	0	0	0	0	0	0	0
7/2/2024 17:02	52004	LING_T2	0	1	1	0	0	0	0.45	0.45	0	0	0	0	0	0
7/2/2024 17:02	52002	LING_T2	12	11	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/2/2024 17:05	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 17:05	40502	CRES_T2	2	3	1	0.2	0.2	0	-0.13	-0.13	0	0	0	0	0	0
7/2/2024 17:06	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 17:06	40502	CRES_T2	2	3	1	0.2	0.2	0	-0.13	-0.13	0	0	0	0	0	0
7/2/2024 17:07	14802	TREI_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/2/2024 17:07	55101	WERT_T1	0	0	0	0	0	0	-2.29	-2.02	4	4	0	3300	3300	0
7/2/2024 17:07	14801	TREI_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 17:08	40502	CRES_T2	2	3	1	0.2	0.2	0	-0.13	-0.13	0	0	0	0	0	0
7/2/2024 17:08	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 17:09	40502	CRES_T2	2	3	1	0.2	0.2	0	-0.26	-0.27	0	0	0	0	0	0
7/2/2024 17:09	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 17:10	63304	GREE_T1	0	0	0	0	0	0	-2.08	-2.15	0	0	0	0	0	0
7/2/2024 17:10	63305	GREE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 17:10	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 17:10	40502	CRES_T2	2	3	1	0.2	0.2	0	-0.92	-0.94	0	0	0	0	0	0
7/2/2024 17:11	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 17:11	40502	CRES_T2	2	3	1	0.2	0.2	0	-0.26	-0.27	0	0	0	0	0	0
7/2/2024 17:12	40502	CRES_T2	2	3	1	0.2	0.2	0	-0.13	-0.13	0	0	0	0	0	0
7/2/2024 17:12	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 17:12	46203	DANV_T2	0	0	0	0	0	0	-1.53	-1.55	0	0	0	0	0	0
7/2/2024 17:12	46206	DANV_T2	21	23	2	0.45	0.41	-0.04	0	0	0	0	0	0	0	0
7/2/2024 17:15	46101	MACI_T2	0	0	0	0	0	0	-0.42	-0.42	1	1	0	1200	1200	0
7/2/2024 17:15	14404	SSLA_T1	1	2	1	3.5	3.3	-0.2	0	0	0	0	0	0	0	0
7/2/2024 17:15	14403	SSLA_T1	1	4	3	1.2	0	-1.2	0.98	1.02	1	1	0	600	600	0
7/2/2024 17:18	63305	GREE_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/2/2024 17:18	63304	GREE_T1	0	0	0	0	0	0	-2.08	-2.15	0	0	0	0	0	0
7/2/2024 17:18	14403	SSLA_T1	1	4	3	1.2	0	-1.2	0.98	1.02	1	1	0	600	600	0
7/2/2024 17:18	14404	SSLA_T1	1	2	1	3.5	3.3	-0.2	0	0	0	0	0	0	0	0
7/2/2024 17:18	60502	NMAN_T2	0	0	0	0	0	0	0.61	0.64	0	0	0	0	0	0
7/2/2024 17:18	60501	NMAN_T2	3	3	0	3.67	3.43	-0.24	0	0	0	0	0	0	0	0
7/2/2024 17:22	42701	AUGU_T1	7	20	13	0.24	0.29	0.05	0	0	2	2	0	1800	1800	0
7/2/2024 17:26	42701	AUGU_T1	7	20	13	0.24	0.29	0.05	0	0	2	2	0	1800	1800	0
7/2/2024 17:26	40802	EXCH_T2	1	1	0	0.3	0.3	0	-0.65	-0.66	0	0	0	0	0	0
7/2/2024 17:27	40802	EXCH_T2	1	1	0	0.3	0.3	0	-0.65	-0.66	0	0	0	0	0	0
7/2/2024 17:28	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 17:28	52401	GRPA_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 17:28	40802	EXCH_T2	1	1	0	0.3	0.3	0	-0.65	-0.66	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/2/2024 17:28	52403	GRPA_T2	45	71	26	0.7	0.81	0.11	0.1	0.57	0	0	0	0	0	0
7/2/2024 17:29	40802	EXCH_T2	1	1	0	0.3	0.3	0	-0.65	-0.66	0	0	0	0	0	0
7/2/2024 17:31	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/2/2024 17:31	47401	PENS_T1	0	0	0	0	0	0	0.89	0.88	0	0	0	0	0	0
7/2/2024 17:31	46801	HEPB_T2	6	5	-1	0.57	0.75	0.18	0.22	0.22	0	0	0	0	0	0
7/2/2024 17:32	58402	MORO_T1	4	7	3	0.33	0.9	0.57	0	0	0	0	0	0	0	0
7/2/2024 17:32	58401	MORO_T1	0	2	2	0	0.1	0.1	-1.94	-1.92	3	3	0	2100	2100	0
7/2/2024 17:33	47401	PENS_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
7/2/2024 17:33	58401	MORO_T1	0	2	2	0	0.1	0.1	-1.94	-1.92	3	3	0	2100	2100	0
7/2/2024 17:33	58402	MORO_T1	4	7	3	0.33	0.9	0.57	0	0	0	0	0	0	0	0
7/2/2024 17:35	47401	PENS_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
7/2/2024 17:39	67804	WLAN_T1	10	10	0	0.58	0.76	0.18	0	0	0	0	0	0	0	0
7/2/2024 17:39	67801	WLAN_T1	0	2	2	0	0.25	0.25	0.37	0.27	0	0	0	0	0	0
7/2/2024 17:42	60803	BUCK_T1	4	2	-2	0.23	0.15	-0.08	-0.84	-0.84	1	1	0	600	600	0
7/2/2024 17:45	52401	GRPA_T2	4	6	2	0.65	0.33	-0.32	0	0	0	0	0	0	0	0
7/2/2024 17:45	52402	GRPA_T2	1	6	5	0.3	1.3	1	0	0	0	0	0	0	0	0
7/2/2024 17:45	52403	GRPA_T2	70	130	60	0.92	0.87	-0.05	0.57	0.55	0	0	0	0	0	0
7/2/2024 17:45	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 17:49	58402	MORO_T1	2	8	6	0.9	0.56	-0.34	0	0	0	0	0	0	0	0
7/2/2024 17:49	58401	MORO_T1	2	1	-1	0.2	1.1	0.9	-3.83	-3.79	6	6	0	4200	4200	0
7/2/2024 17:53	14801	TREI_T2	4	3	-1	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/2/2024 17:53	14802	TREI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 18:05	14802	TREI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 18:05	14801	TREI_T2	3	1	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/2/2024 18:06	43401	BENT_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 18:06	43402	BENT_T1	0	0	0	0	0	0	-0.73	-0.75	1	1	0	900	900	0
7/2/2024 18:07	43401	BENT_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 18:07	43402	BENT_T1	0	0	0	0	0	0	-0.73	-0.75	1	1	0	900	900	0
7/2/2024 18:11	63305	GREE_T1	0	5	5	0	0.18	0.18	-1.73	-1.72	1	1	0	900	900	0
7/2/2024 18:13	63305	GREE_T1	0	5	5	0	0.18	0.18	-1.73	-1.72	1	1	0	900	900	0
7/2/2024 18:19	61701	ELIZ_T1	1	1	0	1.6	2.1	0.5	1.08	1.17	0	0	0	0	0	0
7/2/2024 18:21	43506	WWIL_T1	1	5	4	2	0.63	-1.37	0	0	0	0	0	0	0	0
7/2/2024 18:21	43505	WWIL_T1	1	1	0	2.7	2.8	0.1	0	0	0	0	0	0	0	0
7/2/2024 18:21	43504	WWIL_T1	0	0	0	0	0	0	1.14	1.14	0	0	0	0	0	0
7/2/2024 18:22	67503	WEWI_T2	0	2	2	0	0	0	0.57	0.57	0	0	0	0	0	0
7/2/2024 18:22	43402	BENT_T1	0	0	0	0	0	0	-0.75	-0.77	1	1	0	900	900	0
7/2/2024 18:22	43401	BENT_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 18:25	29401	BELT_T1	2	21	19	0.1	0.2	0.1	0	0	1	1	0	900	900	0
7/2/2024 18:25	29402	BELT_T1	1	1	0	8	8.4	0.4	0	0	0	0	0	0	0	0
7/2/2024 18:26	44801	EDAN_T2	4	4	0	1.4	1.15	-0.25	0.79	0.79	0	0	0	0	0	0
7/2/2024 18:27	43402	BENT_T1	0	0	0	0	0	0	-0.75	-0.77	1	1	0	900	900	0
7/2/2024 18:27	43401	BENT_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 18:29	61701	ELIZ_T1	1	1	0	1.6	2.1	0.5	1.17	1.06	0	0	0	0	0	0
7/2/2024 18:31	43402	BENT_T1	0	0	0	0	0	0	-0.75	-0.77	1	1	0	900	900	0
7/2/2024 18:31	43401	BENT_T1	5	0	-5	0.98	0	-0.98	0	0	0	0	0	0	0	0
7/2/2024 18:34	60301	TWVA_T2	0	0	0	0	0	0	-2.43	-2.45	2	2	0	1800	1800	0
7/2/2024 18:34	12606	MACA_T1	0	22	22	0	0.25	0.25	0	0	0	0	0	0	0	0
7/2/2024 18:34	12601	MACA_T1	0	0	0	0	0	0	1.44	1.41	0	0	0	0	0	0
7/2/2024 18:35	13501	MCMI_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
7/2/2024 18:38	43402	BENT_T1	0	0	0	0	0	0	-0.77	-0.78	1	1	0	900	900	0
7/2/2024 18:38	43401	BENT_T1	5	0	-5	0.98	0	-0.98	0	0	0	0	0	0	0	0
7/2/2024 18:41	43401	BENT_T1	5	0	-5	0.98	0	-0.98	0	0	0	0	0	0	0	0
7/2/2024 18:41	43402	BENT_T1	0	0	0	0	0	0	-0.77	-0.78	1	1	0	900	900	0
7/2/2024 18:42	43401	BENT_T1	5	0	-5	0.98	0	-0.98	0	0	0	0	0	0	0	0
7/2/2024 18:42	43402	BENT_T1	0	0	0	0	0	0	-1.53	-1.56	2	2	0	1800	1800	0
7/2/2024 18:45	42902	MIDD_T2	35	2	-33	0.73	1	0.27	-0.14	-0.09	0	0	0	0	0	0
7/2/2024 18:45	42903	MIDD_T2	2	2	0	0.55	0.15	-0.4	0	0	0	0	0	0	0	0
7/2/2024 18:47	52404	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 18:47	52402	GRPA_T2	3	3	0	0.57	0	-0.57	0	0	0	0	0	0	0	0
7/2/2024 18:47	52403	GRPA_T2	70	62	-8	1.33	0.86	-0.47	0.49	0.47	0	0	0	0	0	0
7/2/2024 18:47	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 18:56	22002	BOHE_T1	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
7/2/2024 19:04	43402	BENT_T1	0	0	0	0	0	0	-0.78	-0.8	1	1	0	900	900	0
7/2/2024 19:05	43402	BENT_T1	0	0	0	0	0	0	-0.78	-0.8	1	1	0	900	900	0
7/2/2024 19:06	56501	ROCK_T2	1	1	0	0.3	0.4	0.1	-1.03	-1.06	0	0	0	0	0	0
7/2/2024 19:14	54501	ENOL_T2	0	0	0	0	0	0	-0.02	-0.05	1	1	0	600	600	0
7/2/2024 19:18	22701	MINO_T1	0	0	0	0	0	0	-0.5	-0.52	1	1	0	600	600	0
7/2/2024 19:20	65603	QVIL_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
7/2/2024 19:24	46001	BERW_T1	0	0	0	0	0	0	1.07	1.05	0	0	0	0	0	0
7/2/2024 19:26	46001	BERW_T1	0	0	0	0	0	0	1.07	1.05	0	0	0	0	0	0
7/2/2024 19:29	50107	HARR_T3	1	1	0	6.9	7	0.1	0.79	0.79	0	0	0	0	0	0
7/2/2024 19:29	50201	HARR_T3	2	2	0	4.3	4.35	0.05	0	0	0	0	0	0	0	0
7/2/2024 19:29	50105	HARR_T3	6	6	0	6.12	6.1	-0.02	0	0	0	0	0	0	0	0
7/2/2024 19:30	46602	LACR_T1	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
7/2/2024 19:48	65903	SAKR_T2	0	0	0	0	0	0	-1.07	-1.19	6	6	0	4200	4200	0
7/2/2024 19:48	65901	SAKR_T2	1	1	0	8	8.5	0.5	0	0	0	0	0	0	0	0
7/2/2024 19:48	65902	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 19:53	42204	SHEN_T2	0	0	0	0	0	0	-0.83	-0.83	1	1	0	1200	1200	0
7/2/2024 19:58	64704	LITI_T1	0	0	0	0	0	0	0.52	0.65	1	1	0	600	600	0
7/2/2024 20:02	48301	ORWI_T1	2	2	0	5.3	5.8	0.5	-0.41	-0.43	1	1	0	900	900	0
7/2/2024 20:05	12301	LANA_T2	0	0	0	0	0	0	-0.83	-0.85	0	0	0	0	0	0
7/2/2024 20:06	50701	SMEC_T1	0	0	0	0	0	0	0.14	0.09	0	0	0	0	0	0
7/2/2024 20:11	61102	BERK_T5	0	0	0	0	0	0	0.65	0.61	1	1	0	300	300	0
7/2/2024 20:12	24105	EHAZ_T1	4	4	0	5.85	5.45	-0.4	0	0	0	0	0	0	0	0
7/2/2024 20:12	43402	BENT_T1	0	0	0	0	0	0	-0.82	-0.82	1	1	0	900	900	0
7/2/2024 20:12	24101	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 20:12	24103	EHAZ_T1	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
7/2/2024 20:12	24102	EHAZ_T1	2	7	5	0.55	0.9	0.35	0	0	0	0	0	0	0	0
7/2/2024 20:13	14204	EALL_T2	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
7/2/2024 20:13	24103	EHAZ_T1	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
7/2/2024 20:13	24105	EHAZ_T1	4	4	0	5.85	5.45	-0.4	0	0	0	0	0	0	0	0
7/2/2024 20:13	24102	EHAZ_T1	2	7	5	0.55	0.9	0.35	0	0	0	0	0	0	0	0
7/2/2024 20:13	43402	BENT_T1	0	0	0	0	0	0	-0.82	-0.82	1	1	0	900	900	0
7/2/2024 20:13	24101	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 20:14	22903	HARW_T1	3	6	3	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/2/2024 20:14	22905	HARW_T1	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
7/2/2024 20:23	43304	WATS_T2	7	2	-5	0.29	0	-0.29	-0.24	-0.29	0	0	0	0	0	0
7/2/2024 20:23	43302	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 20:30	11507	FREE_T2	9	12	3	1.07	0.88	-0.19	1.26	1.08	1	1	0	600	600	0
7/2/2024 20:30	46302	ROHR_T1	42	73	31	0.34	0.38	0.04	0	0	0	0	0	0	0	0
7/2/2024 20:30	46301	ROHR_T1	283	295	12	0.54	0.67	0.13	0.37	0.37	0	0	0	0	0	0
7/2/2024 20:35	43402	BENT_T1	0	0	0	0	0	0	-0.82	-0.83	1	1	0	900	900	0
7/2/2024 20:36	43402	BENT_T1	0	0	0	0	0	0	-0.83	-0.83	1	1	0	900	900	0
7/2/2024 20:39	67502	WEWI_T2	0	0	0	0	0	0	-1.04	-1.08	1	1	0	900	900	0
7/2/2024 20:50	25503	MADI_T1	25	65	40	0.18	0.23	0.05	-0.7	-0.71	0	0	0	0	0	0
7/2/2024 20:55	43402	BENT_T1	0	0	0	0	0	0	-0.83	-0.84	1	1	0	900	900	0
7/2/2024 20:56	43402	BENT_T1	0	0	0	0	0	0	-0.83	-0.84	1	1	0	900	900	0
7/2/2024 21:03	46302	ROHR_T1	63	119	56	0.38	0.38	0	0.35	0.34	0	0	0	0	0	0
7/2/2024 21:03	46301	ROHR_T1	287	356	69	0.66	0.77	0.11	0	0	0	0	0	0	0	0
7/2/2024 21:05	46301	ROHR_T1	287	356	69	0.66	0.77	0.11	0	0	0	0	0	0	0	0
7/2/2024 21:05	46302	ROHR_T1	63	119	56	0.38	0.38	0	0.35	0.34	0	0	0	0	0	0
7/2/2024 21:05	27604	PIRI_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
7/2/2024 21:06	46301	ROHR_T1	287	356	69	0.66	0.77	0.11	0	0	0	0	0	0	0	0
7/2/2024 21:06	44601	SALE_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
7/2/2024 21:06	46302	ROHR_T1	63	119	56	0.38	0.38	0	0.34	0.33	0	0	0	0	0	0
7/2/2024 21:06	27604	PIRI_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
7/2/2024 21:07	66702	STRA_T1	0	0	0	0	0	0	-0.28	-0.26	2	2	0	1500	1500	0
7/2/2024 21:08	66702	STRA_T1	0	0	0	0	0	0	-0.28	-0.26	2	2	0	1500	1500	0
7/2/2024 21:09	65205	PRIN_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
7/2/2024 21:09	66702	STRA_T1	0	0	0	0	0	0	-0.28	-0.26	2	2	0	1500	1500	0
7/2/2024 21:09	44601	SALE_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
7/2/2024 21:10	66702	STRA_T1	0	0	0	0	0	0	-0.56	-0.52	4	4	0	3000	3000	0
7/2/2024 21:10	66201	SISP_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
7/2/2024 21:11	66702	STRA_T1	0	0	0	0	0	0	-0.28	-0.26	2	2	0	1500	1500	0
7/2/2024 21:15	63804	HEMP_T1	1	1	0	5.9	6	0.1	1.39	1.4	0	0	0	0	0	0
7/2/2024 21:15	12001	HATF_T1	1	0	-1	0.8	0	-0.8	1.83	1.58	1	1	0	600	600	0
7/2/2024 21:16	43402	BENT_T1	0	0	0	0	0	0	-0.84	-0.84	1	1	0	900	900	0
7/2/2024 21:17	43402	BENT_T1	0	0	0	0	0	0	-0.84	-0.84	1	1	0	900	900	0
7/2/2024 21:18	12001	HATF_T1	1	0	-1	0.8	0	-0.8	1.83	1.58	1	1	0	600	600	0
7/2/2024 21:23	66702	STRA_T1	0	0	0	0	0	0	-0.26	-0.39	2	2	0	1500	1500	0
7/2/2024 21:39	13704	SCHN_T2	0	0	0	0	0	0	0.17	0.27	0	0	0	0	0	0
7/2/2024 21:42	13704	SCHN_T2	0	0	0	0	0	0	0.17	0.27	0	0	0	0	0	0
7/2/2024 21:44	66303	MCGO_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/2/2024 21:44	66301	MCGO_T2	0	0	0	0	0	0	-2.87	-2.88	0	0	0	0	0	0
7/2/2024 21:47	67605	WARW_T1	0	0	0	0	0	0	-0.94	-0.98	0	0	0	0	0	0
7/2/2024 21:47	24105	EHAZ_T1	4	4	0	5.58	6.33	0.75	0	0	0	0	0	0	0	0
7/2/2024 21:47	24102	EHAZ_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/2/2024 21:47	24103	EHAZ_T1	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
7/2/2024 22:16	22903	HARW_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 22:16	22904	HARW_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
7/2/2024 22:17	40602	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/2/2024 22:17	40601	PIGR_T1	0	23	23	0	0.18	0.18	0.03	0.01	0	0	0	0	0	0
7/2/2024 22:18	43402	BENT_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	900	900	0
7/2/2024 22:19	43402	BENT_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	900	900	0
7/2/2024 22:21	61701	ELIZ_T1	1	1	0	4	4.3	0.3	0.61	0.46	0	0	0	0	0	0
7/2/2024 22:28	51004	NHAR_T1	1	1	0	6.7	6.5	-0.2	-1.82	-1.83	0	0	0	0	0	0
7/2/2024 22:28	51002	NHAR_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
7/2/2024 22:29	53902	HALI_T2	1	1	0	5	5.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 22:29	53903	HALI_T2	2	2	0	0.95	1.5	0.55	0.01	0.01	0	0	0	0	0	0
7/2/2024 22:29	53901	HALI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/2/2024 22:30	46206	DANV_T2	0	0	0	0	0	0	1.93	1.91	2	2	0	2100	2100	0
7/2/2024 22:31	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:31	65901	SAKR_T2	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
7/2/2024 22:31	65903	SAKR_T2	0	0	0	0	0	0	-1.16	-1.19	3	3	0	2100	2100	0
7/2/2024 22:31	65902	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:32	52004	LING_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
7/2/2024 22:32	21204	ECAR_T2	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 22:32	21206	ECAR_T2	1	1	0	8	8.3	0.3	0.17	0.17	0	0	0	0	0	0
7/2/2024 22:33	60803	BUCK_T1	4	0	-4	0.13	0	-0.13	-0.34	-0.34	1	1	0	600	600	0
7/2/2024 22:33	50202	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:33	50201	HARR_T3	1	1	0	9.2	8.8	-0.4	0	0	0	0	0	0	0	0
7/2/2024 22:33	50107	HARR_T3	1	1	0	6.7	6.8	0.1	0.73	0.73	0	0	0	0	0	0
7/2/2024 22:33	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.12	-0.13	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/2/2024 22:33	50105	HARR_T3	6	6	0	6.3	6.33	0.03	0	0	0	0	0	0	0	0
7/2/2024 22:34	40802	EXCH_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
7/2/2024 22:34	59101	WALK_T2	0	0	0	0	0	0	1.05	1.12	1	1	0	600	600	0
7/2/2024 22:34	58006	WCAR_T2	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
7/2/2024 22:34	13501	MCMI_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
7/2/2024 22:34	46602	LAOR_T1	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
7/2/2024 22:34	52002	LING_T2	0	0	0	0	0	0	0.32	0.28	0	0	0	0	0	0
7/2/2024 22:34	56802	BENV_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
7/2/2024 22:35	65001	NEFF_T2	0	0	0	0	0	0	-0.67	-0.71	1	1	0	1200	1200	0
7/2/2024 22:35	40502	CRES_T2	10	9	-1	0.29	0.3	0.01	-0.61	-0.64	0	0	0	0	0	0
7/2/2024 22:35	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:35	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.12	-0.13	0	0	0	0	0	0
7/2/2024 22:35	23202	HIRU_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
7/2/2024 22:35	60101	COCA_T1	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
7/2/2024 22:36	67603	WARW_T1	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
7/2/2024 22:36	22002	BOHE_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
7/2/2024 22:36	52002	LING_T2	0	0	0	0	0	0	0.32	0.28	0	0	0	0	0	0
7/2/2024 22:36	47401	PENS_T1	0	0	0	0	0	0	-0.12	1.15	0	0	0	0	0	0
7/2/2024 22:36	64704	LITI_T1	0	0	0	0	0	0	0.13	0.11	1	1	0	600	600	0
7/2/2024 22:36	47002	HUGH_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/2/2024 22:36	47001	HUGH_T2	3	3	0	8.67	8.5	-0.17	-0.65	-0.68	0	0	0	0	0	0
7/2/2024 22:36	22003	BOHE_T1	4	113	109	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
7/2/2024 22:37	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:37	43302	WATS_T2	4	4	0	0.13	0.25	0.12	0	0	0	0	0	0	0	0
7/2/2024 22:37	60803	BUCK_T1	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/2/2024 22:37	40502	CRES_T2	10	9	-1	0.29	0.3	0.01	-0.64	-0.67	0	0	0	0	0	0
7/2/2024 22:37	43301	WATS_T2	0	1	1	0	0.4	0.4	-0.44	-0.49	1	1	0	900	900	0
7/2/2024 22:37	45801	HEGI_T1	0	0	0	0	0	0	0.04	0.01	1	1	0	900	900	0
7/2/2024 22:37	26402	INOR_T1	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
7/2/2024 22:37	25404	LAHA_T2	30	141	111	0.11	0.14	0.03	0	0	0	0	0	0	0	0
7/2/2024 22:37	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.13	-0.14	0	0	0	0	0	0
7/2/2024 22:37	60801	BUCK_T1	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
7/2/2024 22:37	61701	ELIZ_T1	1	1	0	4.2	4.3	0.1	0.46	0.45	0	0	0	0	0	0
7/2/2024 22:37	25402	LAHA_T2	0	1	1	0	0.1	0.1	-0.79	-0.8	0	0	0	0	0	0
7/2/2024 22:37	26401	INOR_T1	1	1	0	8.9	8.8	-0.1	0	0	0	0	0	0	0	0
7/2/2024 22:38	21206	ECAR_T2	1	1	0	8	8.3	0.3	0.17	0.17	0	0	0	0	0	0
7/2/2024 22:38	65206	PRIN_T4	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
7/2/2024 22:38	13503	MCMI_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
7/2/2024 22:38	65604	QVIL_T2	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
7/2/2024 22:38	66505	SMAN_T2	3	2	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/2/2024 22:38	60502	NMAN_T2	0	0	0	0	0	0	-0.23	-0.28	0	0	0	0	0	0
7/2/2024 22:38	46203	DANV_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
7/2/2024 22:38	21204	ECAR_T2	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 22:38	15702	TANN_T2	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
7/2/2024 22:38	66504	SMAN_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
7/2/2024 22:38	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.34	0	0	0	0	0	0
7/2/2024 22:38	60501	NMAN_T2	3	3	0	4.23	5.63	1.4	0	0	0	0	0	0	0	0
7/2/2024 22:38	17002	RIRO_T2	1	1	0	1.1	1.7	0.6	0.57	0.51	0	0	0	0	0	0
7/2/2024 22:38	15703	TANN_T2	1	1	0	5.2	4.9	-0.3	0	0	0	0	0	0	0	0
7/2/2024 22:38	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/2/2024 22:39	44703	MUNC_T2	3	1	-2	0.63	0.5	-0.13	0.72	0.68	0	0	0	0	0	0
7/2/2024 22:39	22003	BOHE_T1	4	113	109	0.3	0.22	-0.08	-0.14	-0.14	0	0	0	0	0	0
7/2/2024 22:39	56801	BENV_T1	8	12	4	0.39	0.62	0.23	-1.01	-1.06	2	2	0	1200	1200	0
7/2/2024 22:39	42201	SHEN_T2	0	0	0	0	0	0	0.2	0.19	1	1	0	600	600	0
7/2/2024 22:39	29401	BELT_T1	24	0	-24	0.16	0	-0.16	0	0	0	0	0	0	0	0
7/2/2024 22:39	60803	BUCK_T1	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/2/2024 22:39	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
7/2/2024 22:39	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:39	56803	BENV_T1	21	25	4	0.5	0.76	0.26	0	0	0	0	0	0	0	0
7/2/2024 22:39	60801	BUCK_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
7/2/2024 22:39	63804	HEMP_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
7/2/2024 22:39	44702	MUNC_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/2/2024 22:39	44701	MUNC_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
7/2/2024 22:39	47002	HUGH_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/2/2024 22:39	47001	HUGH_T2	3	3	0	8.67	8.5	-0.17	-0.65	-0.68	0	0	0	0	0	0
7/2/2024 22:39	29402	BELT_T1	19	1	-18	0.66	7.5	6.84	0	0	0	0	0	0	0	0
7/2/2024 22:39	24902	WHHA_T1	0	1	1	0	0.1	0.1	0.83	0.82	0	0	0	0	0	0
7/2/2024 22:39	21901	HUMB_T1	0	1	1	0	0	0	-0.73	-0.75	0	0	0	0	0	0
7/2/2024 22:39	63802	HEMP_T1	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
7/2/2024 22:40	67605	WARW_T1	0	0	0	0	0	0	-1.12	-1.17	0	0	0	0	0	0
7/2/2024 22:40	42902	MIDD_T2	0	0	0	0	0	0	-0.7	-0.74	1	1	0	600	600	0
7/2/2024 22:40	56501	ROCK_T2	1	3	2	0.6	0.6	0	-1.49	-1.57	0	0	0	0	0	0
7/2/2024 22:40	58003	WCAR_T1	1	1	0	1	1.2	0.2	0.88	0.86	0	0	0	0	0	0
7/2/2024 22:40	65603	QVIL_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
7/2/2024 22:40	41303	FISH_T1	1	1	0	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
7/2/2024 22:40	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.34	0	0	0	0	0	0
7/2/2024 22:40	58001	WCAR_T1	4	4	0	0.23	1.08	0.85	0	0	0	0	0	0	0	0
7/2/2024 22:40	63305	GREE_T1	2	0	-2	0	0	0	-1.02	-1.01	0	0	0	0	0	0
7/2/2024 22:40	42903	MIDD_T2	2	2	0	0.55	1	0.45	0	0	0	0	0	0	0	0
7/2/2024 22:40	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
7/2/2024 22:40	59101	WALK_T2	0	0	0	0	0	0	1.12	1.16	1	1	0	600	600	0
7/2/2024 22:40	61102	BERK_T5	0	0	0	0	0	0	0.02	-0.08	1	1	0	300	300	0
7/2/2024 22:40	16302	ALPA_T2	0	0	0	0	0	0	1	0.98	0	0	0	0	0	0
7/2/2024 22:40	41301	FISH_T1	1	1	0	1.9	1.9	0	-0.03	-0.03	0	0	0	0	0	0
7/2/2024 22:41	46302	ROHR_T1	204	234	30	0.64	0.83	0.19	0	0	0	0	0	0	0	0
7/2/2024 22:41	63802	HEMP_T1	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
7/2/2024 22:41	56803	BENV_T1	21	25	4	0.5	0.76	0.26	0	0	0	0	0	0	0	0
7/2/2024 22:41	57104	SPHI_T2	1	1	0	2.4	2.1	-0.3	-0.58	-0.62	0	0	0	0	0	0
7/2/2024 22:41	40502	CRES_T2	10	9	-1	0.29	0.3	0.01	-0.64	-0.67	0	0	0	0	0	0
7/2/2024 22:41	13503	MCMI_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
7/2/2024 22:41	63804	HEMP_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
7/2/2024 22:41	67602	WARW_T2	0	0	0	0	0	0	0.05	0.03	2	2	0	1500	1500	0
7/2/2024 22:41	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.13	-0.14	0	0	0	0	0	0
7/2/2024 22:41	46206	DANV_T2	0	0	0	0	0	0	1.91	1.9	2	2	0	2100	2100	0
7/2/2024 22:41	57101	SPHI_T2	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
7/2/2024 22:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:41	15702	TANN_T2	0	0	0	0	0	0	-0.48	-0.53	0	0	0	0	0	0
7/2/2024 22:41	58003	WCAR_T1	1	1	0	1	1.2	0.2	0.88	0.86	0	0	0	0	0	0
7/2/2024 22:41	15703	TANN_T2	1	1	0	5.2	4.9	-0.3	0	0	0	0	0	0	0	0
7/2/2024 22:41	60102	COCA_T1	0	0	0	0	0	0	0.04	0.15	2	2	0	1200	1200	0
7/2/2024 22:41	56801	BENV_T1	8	12	4	0.39	0.62	0.23	-1.01	-1.06	2	2	0	1200	1200	0
7/2/2024 22:41	46301	ROHR_T1	392	412	20	1.05	1.22	0.17	0.34	0.34	0	0	0	0	0	0
7/2/2024 22:41	58001	WCAR_T1	4	4	0	0.23	1.08	0.85	0	0	0	0	0	0	0	0
7/2/2024 22:41	42204	SHEN_T2	0	0	0	0	0	0	-0.87	-0.87	1	1	0	1200	1200	0
7/2/2024 22:41	56501	ROCK_T2	1	3	2	0.6	0.6	0	-1.49	-1.57	0	0	0	0	0	0
7/2/2024 22:41	60101	COCA_T1	0	0	0	0	0	0	1.19	1.15	0	0	0	0	0	0
7/2/2024 22:41	57404	SPAN_T2	0	0	0	0	0	0	-0.72	-0.74	1	1	0	1200	1200	0
7/2/2024 22:41	47401	PENS_T1	0	0	0	0	0	0	-0.12	1.15	0	0	0	0	0	0
7/2/2024 22:41	57106	SPHI_T2	3	3	0	1.4	1.77	0.37	0	0	0	0	0	0	0	0
7/2/2024 22:41	63305	GREE_T1	2	0	-2	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:41	56802	BENV_T2	0	0	0	0	0	0	-0.86	-0.9	0	0	0	0	0	0
7/2/2024 22:41	63304	GREE_T1	0	0	0	0	0	0	-1.38	-1.42	0	0	0	0	0	0
7/2/2024 22:42	64101	REFR_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
7/2/2024 22:42	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 22:42	45801	HEGI_T1	0	0	0	0	0	0	0.04	0.01	1	1	0	900	900	0
7/2/2024 22:42	66505	SMAN_T2	3	2	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/2/2024 22:42	60803	BUCK_T1	4	0	-4	0.13	0	-0.13	-0.34	-0.35	1	1	0	600	600	0
7/2/2024 22:42	52402	GRPA_T2	3	4	1	0.3	0.43	0.13	-0.76	-0.75	0	0	0	0	0	0
7/2/2024 22:42	66502	SMAN_T2	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
7/2/2024 22:42	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
7/2/2024 22:42	61102	BERK_T5	0	0	0	0	0	0	0.02	-0.08	1	1	0	300	300	0
7/2/2024 22:42	67602	WARW_T2	0	0	0	0	0	0	0.09	0.07	4	4	0	3000	3000	0
7/2/2024 22:42	58001	WCAR_T1	4	4	0	0.23	1.08	0.85	0	0	0	0	0	0	0	0
7/2/2024 22:42	11104	EGYP_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
7/2/2024 22:42	60102	COCA_T1	0	0	0	0	0	0	0.04	0.15	2	2	0	1200	1200	0
7/2/2024 22:42	29402	BELT_T1	19	1	-18	0.66	7.5	6.84	0	0	0	0	0	0	0	0
7/2/2024 22:42	52401	GRPA_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
7/2/2024 22:42	66504	SMAN_T2	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
7/2/2024 22:42	13503	MCMI_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
7/2/2024 22:42	58003	WCAR_T1	1	1	0	1	1.2	0.2	0.88	0.86	0	0	0	0	0	0
7/2/2024 22:42	60801	BUCK_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
7/2/2024 22:42	14801	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:42	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:42	29401	BELT_T1	24	0	-24	0.16	0	-0.16	0	0	1	1	0	900	900	0
7/2/2024 22:42	13905	SEID_T1	0	0	0	0	0	0	-0.76	-0.79	1	1	0	1200	1200	0
7/2/2024 22:42	56802	BENV_T2	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
7/2/2024 22:42	56501	ROCK_T2	1	3	2	0.6	0.6	0	-1.49	-1.57	0	0	0	0	0	0
7/2/2024 22:42	60101	COCA_T1	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
7/2/2024 22:42	64501	LAVI_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
7/2/2024 22:42	22901	HARW_T1	0	0	0	0	0	0	-0.43	-0.42	1	1	0	1200	1200	0
7/2/2024 22:43	67805	WLAN_T1	34	0	-34	0.16	0	-0.16	0	0	0	0	0	0	0	0
7/2/2024 22:43	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
7/2/2024 22:43	40302	TAMA_T3	0	1	1	0	0.1	0.1	0.14	0.14	0	0	0	0	0	0
7/2/2024 22:43	13503	MCMI_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
7/2/2024 22:43	58003	WCAR_T1	1	1	0	1	1.2	0.2	0.88	0.86	0	0	0	0	0	0
7/2/2024 22:43	43506	WWIL_T1	22	1	-21	0.32	2	1.68	0	0	0	0	0	0	0	0
7/2/2024 22:43	29402	BELT_T1	19	1	-18	0.66	7.5	6.84	0	0	0	0	0	0	0	0
7/2/2024 22:43	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:43	61301	EARL_T1	0	0	0	0	0	0	-0.4	-0.4	1	1	0	900	900	0
7/2/2024 22:43	63401	HONY_T1	0	0	0	0	0	0	0.18	0.16	1	1	0	600	600	0
7/2/2024 22:43	63305	GREE_T1	2	0	-2	0	0	0	-1.02	-1.01	0	0	0	0	0	0
7/2/2024 22:43	11104	EGYP_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
7/2/2024 22:43	58001	WCAR_T1	4	4	0	0.23	1.08	0.85	0	0	0	0	0	0	0	0
7/2/2024 22:43	13303	ORVI_T1	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
7/2/2024 22:43	46001	BERW_T1	0	0	0	0	0	0	0.87	0.85	0	0	0	0	0	0
7/2/2024 22:43	52004	LING_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
7/2/2024 22:43	67803	WLAN_T1	0	0	0	0	0	0	-1.15	-1.17	0	0	0	0	0	0
7/2/2024 22:43	67602	WARW_T2	0	0	0	0	0	0	0.05	0.03	2	2	0	1500	1500	0
7/2/2024 22:43	47401	PENS_T1	0	0	0	0	0	0	-0.12	1.15	0	0	0	0	0	0
7/2/2024 22:43	43505	WWIL_T1	25	2	-23	0.26	2.9	2.64	0	0	0	0	0	0	0	0
7/2/2024 22:43	40802	EXCH_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
7/2/2024 22:43	29401	BELT_T1	24	0	-24	0.16	0	-0.16	0	0	1	1	0	900	900	0
7/2/2024 22:43	43504	WWIL_T1	13	3	-10	0.44	0.3	-0.14	0.78	0.74	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/2/2024 22:43	52404	GRPA_T2	0	1	1	0	0.2	0.2	-0.17	-0.19	0	0	0	0	0	0
7/2/2024 22:43	64401	LAND_T1	0	0	0	0	0	0	-0.92	-0.94	1	1	0	600	600	0
7/2/2024 22:43	52401	GRPA_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
7/2/2024 22:43	52402	GRPA_T2	3	4	1	0.3	0.43	0.13	0	0	0	0	0	0	0	0
7/2/2024 22:44	57205	ROSS_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
7/2/2024 22:44	64201	KINZ_T1	4	13	9	0.48	0.28	-0.2	-0.38	-0.04	2	1	-1	1200	900	-300
7/2/2024 22:44	60502	NMAN_T2	0	0	0	0	0	0	-0.23	-0.28	0	0	0	0	0	0
7/2/2024 22:44	16302	ALPA_T2	0	0	0	0	0	0	2	1.96	0	0	0	0	0	0
7/2/2024 22:44	64204	KINZ_T1	3	7	4	0.5	0.31	-0.19	0	0	0	0	0	0	0	0
7/2/2024 22:44	24801	VALM_T1	0	0	0	0	0	0	-0.25	-0.29	0	0	0	0	0	0
7/2/2024 22:44	67605	WARW_T1	0	0	0	0	0	0	-1.12	-1.17	0	0	0	0	0	0
7/2/2024 22:44	62102	ELAN_T1	0	0	0	0	0	0	1.14	1.15	0	0	0	0	0	0
7/2/2024 22:44	20601	GRWO_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
7/2/2024 22:44	64202	KINZ_T1	3	3	0	0.57	0.67	0.1	0	0	0	0	0	0	0	0
7/2/2024 22:44	60501	NMAN_T2	3	3	0	4.23	5.63	1.4	0	0	0	0	0	0	0	0
7/2/2024 22:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:44	61102	BERK_T5	0	0	0	0	0	0	0.02	-0.08	1	1	0	300	300	0
7/2/2024 22:44	54501	ENOL_T2	0	0	0	0	0	0	-0.24	-0.25	1	1	0	600	600	0
7/2/2024 22:44	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.13	-0.14	0	0	0	0	0	0
7/2/2024 22:44	40502	CRES_T2	10	9	-1	0.29	0.3	0.01	-0.64	-0.67	0	0	0	0	0	0
7/2/2024 22:44	20401	ASHF_T2	0	2	2	0	0.3	0.3	-0.06	-0.07	0	0	0	0	0	0
7/2/2024 22:44	43202	MVIL_T2	202	377	175	0.93	0.84	-0.09	-0.59	-0.6	0	0	0	0	0	0
7/2/2024 22:44	53801	MBRG_T2	0	13	13	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 22:44	56802	BENV_T2	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
7/2/2024 22:44	42601	TUSC_T1	0	0	0	0	0	0	-0.13	-0.22	2	2	0	1800	1800	0
7/2/2024 22:44	16301	ALPA_T1	4	1	-3	0.28	0.5	0.22	-0.03	-0.07	0	0	0	0	0	0
7/2/2024 22:44	48302	ORWI_T2	2	2	0	1.4	1.4	0	-0.51	-0.53	0	0	0	0	0	0
7/2/2024 22:44	20603	GRWO_T2	52	52	0	0.26	0.27	0.01	0	0	0	0	0	0	0	0
7/2/2024 22:44	64101	REFR_T1	0	0	0	0	0	0	0.4	0.35	0	0	0	0	0	0
7/2/2024 22:44	60101	COCA_T1	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
7/2/2024 22:44	43201	MVIL_T2	21	89	68	0.13	0.28	0.15	0	0	0	0	0	0	0	0
7/2/2024 22:44	53803	MBRG_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
7/2/2024 22:45	41902	REED_T1	0	0	0	0	0	0	0.3	0.26	1	1	0	900	900	0
7/2/2024 22:45	20403	ASHF_T2	0	0	0	0	0	0	0.46	0.42	0	0	0	0	0	0
7/2/2024 22:45	46001	BERW_T1	0	0	0	0	0	0	0.87	0.85	0	0	0	0	0	0
7/2/2024 22:45	40502	CRES_T2	9	11	2	0.3	0.26	-0.04	-1.28	-1.35	0	0	0	0	0	0
7/2/2024 22:45	44801	EDAN_T2	0	1	1	0	0	0	0.66	0.65	0	0	0	0	0	0
7/2/2024 22:45	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:45	48301	ORWI_T1	2	2	0	5.05	5.2	0.15	0.17	0.14	0	0	0	0	0	0
7/2/2024 22:45	64401	LAND_T1	0	0	0	0	0	0	-0.92	-0.94	1	1	0	600	600	0
7/2/2024 22:45	43301	WATS_T2	0	1	1	0	0.4	0.4	-0.44	-0.49	1	1	0	900	900	0
7/2/2024 22:45	20401	ASHF_T2	1	2	1	0.1	0.45	0.35	-0.06	-0.07	0	0	0	0	0	0
7/2/2024 22:45	24902	WHHA_T1	1	1	0	0.1	0.7	0.6	0.83	0.82	0	0	0	0	0	0
7/2/2024 22:45	22901	HARW_T1	0	0	0	0	0	0	-0.43	-0.42	1	1	0	1200	1200	0
7/2/2024 22:45	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:45	61102	BERK_T5	0	0	0	0	0	0	0.04	-0.16	2	2	0	600	600	0
7/2/2024 22:45	64802	MONE_T2	0	1	1	0	0	0	0.26	0.41	0	0	0	0	0	0
7/2/2024 22:45	43201	MVIL_T2	70	89	19	0.18	0.28	0.1	0	0	0	0	0	0	0	0
7/2/2024 22:45	41901	REED_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
7/2/2024 22:45	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:45	59101	WALK_T2	0	0	0	0	0	0	1.12	1.16	1	1	0	600	600	0
7/2/2024 22:45	43302	WATS_T2	1	4	3	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/2/2024 22:45	60201	ATGL_T2	0	0	0	0	0	0	0.38	0.56	2	2	0	600	600	0
7/2/2024 22:45	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 22:45	45801	HEGI_T1	0	0	0	0	0	0	0.04	0.01	1	1	0	900	900	0
7/2/2024 22:45	56802	BENV_T2	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
7/2/2024 22:45	45802	HEGI_T2	38	47	9	0.64	1.29	0.65	0.62	0.72	1	1	0	300	300	0
7/2/2024 22:45	67402	WAKE_T2	0	0	0	0	0	0	-0.15	-0.17	1	1	0	600	600	0
7/2/2024 22:45	67602	WARW_T2	0	0	0	0	0	0	0.05	0.03	2	2	0	1500	1500	0
7/2/2024 22:45	43202	MVIL_T2	284	376	92	0.8	0.84	0.04	-0.59	-0.6	0	0	0	0	0	0
7/2/2024 22:45	22905	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:46	52002	LING_T2	0	0	0	0	0	0	0.28	0.24	0	0	0	0	0	0
7/2/2024 22:46	20401	ASHF_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
7/2/2024 22:46	14404	SSLA_T1	1	1	0	5.2	5.6	0.4	0	0	0	0	0	0	0	0
7/2/2024 22:46	65902	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:46	60102	COCA_T1	0	0	0	0	0	0	0.04	0.15	2	2	0	1200	1200	0
7/2/2024 22:46	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:46	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/2/2024 22:46	60201	ATGL_T2	0	0	0	0	0	0	0.19	0.28	1	1	0	300	300	0
7/2/2024 22:46	56802	BENV_T2	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
7/2/2024 22:46	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/2/2024 22:46	42903	MIDD_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
7/2/2024 22:46	67605	WARW_T1	0	0	0	0	0	0	-1.12	-1.17	0	0	0	0	0	0
7/2/2024 22:46	60301	TWVA_T2	0	0	0	0	0	0	-3.03	-3.07	2	2	0	1800	1800	0
7/2/2024 22:46	65901	SAKR_T2	1	1	0	7.5	7.1	-0.4	0	0	0	0	0	0	0	0
7/2/2024 22:46	66902	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/2/2024 22:46	14204	EALL_T2	0	1	1	0	0	0	-0.59	-0.59	0	0	0	0	0	0
7/2/2024 22:46	48302	ORWI_T2	2	2	0	1.35	1.45	0.1	-0.51	-0.53	0	0	0	0	0	0
7/2/2024 22:46	43302	WATS_T2	1	4	3	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/2/2024 22:46	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:46	59101	WALK_T2	0	0	0	0	0	0	1.12	1.16	1	1	0	600	600	0
7/2/2024 22:46	65903	SAKR_T2	0	0	0	0	0	0	-1.19	-1.2	3	3	0	2100	2100	0
7/2/2024 22:46	24902	WHHA_T1	1	1	0	0.1	0.7	0.6	0.83	0.82	0	0	0	0	0	0
7/2/2024 22:46	22901	HARW_T1	0	0	0	0	0	0	-0.43	-0.42	1	1	0	1200	1200	0
7/2/2024 22:46	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 22:46	66301	MCGO_T2	0	0	0	0	0	0	-1.59	-1.54	0	0	0	0	0	0
7/2/2024 22:46	47401	PENS_T1	0	0	0	0	0	0	-0.36	3.44	0	0	0	0	0	0
7/2/2024 22:46	60803	BUCK_T1	0	0	0	0	0	0	-0.69	-0.7	2	2	0	1200	1200	0
7/2/2024 22:46	61102	BERK_T5	0	0	0	0	0	0	0.02	-0.08	1	1	0	300	300	0
7/2/2024 22:46	12601	MACA_T1	0	0	0	0	0	0	1.08	1.07	0	0	0	0	0	0
7/2/2024 22:46	64101	REFR_T1	0	0	0	0	0	0	0.6	0.53	0	0	0	0	0	0
7/2/2024 22:46	43301	WATS_T2	0	1	1	0	0.4	0.4	-0.44	-0.49	1	1	0	900	900	0
7/2/2024 22:46	56801	BENV_T1	11	14	3	0.64	0.7	0.06	-0.5	-0.53	1	1	0	600	600	0
7/2/2024 22:46	20403	ASHF_T2	0	0	0	0	0	0	0.46	0.42	0	0	0	0	0	0
7/2/2024 22:46	66505	SMAN_T2	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/2/2024 22:46	65604	QVIL_T2	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
7/2/2024 22:46	56803	BENV_T1	25	27	2	0.76	0.65	-0.11	0	0	0	0	0	0	0	0
7/2/2024 22:46	66901	SHIL_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
7/2/2024 22:46	14403	SSLA_T1	0	0	0	0	0	0	0.96	0.91	0	0	0	0	0	0
7/2/2024 22:46	22905	HARW_T1	0	1	1	0	0	0	-0.57	-0.6	0	0	0	0	0	0
7/2/2024 22:46	40502	CRES_T2	9	11	2	0.3	0.26	-0.04	-2.56	-2.69	0	0	0	0	0	0
7/2/2024 22:46	66502	SMAN_T2	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
7/2/2024 22:46	42902	MIDD_T2	0	0	0	0	0	0	-0.7	-0.74	1	1	0	600	600	0
7/2/2024 22:47	41301	FISH_T1	1	3	2	1.9	0.77	-1.13	-0.03	-0.03	0	0	0	0	0	0
7/2/2024 22:47	43301	WATS_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/2/2024 22:47	20401	ASHF_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
7/2/2024 22:47	40802	EXCH_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
7/2/2024 22:47	60801	BUCK_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
7/2/2024 22:47	43304	WATS_T2	0	0	0	0	0	0	-0.35	-0.39	0	0	0	0	0	0
7/2/2024 22:47	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 22:47	43201	MVIL_T2	70	89	19	0.18	0.28	0.1	0	0	0	0	0	0	0	0
7/2/2024 22:47	61102	BERK_T5	0	0	0	0	0	0	0.02	-0.08	1	1	0	300	300	0
7/2/2024 22:47	44801	EDAN_T2	0	1	1	0	0	0	0.66	0.65	0	0	0	0	0	0
7/2/2024 22:47	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:47	21203	ECAR_T1	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
7/2/2024 22:47	53801	MBRG_T2	0	32	32	0	0.14	0.14	-1.73	-1.76	0	0	0	0	0	0
7/2/2024 22:47	67001	STHI_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
7/2/2024 22:47	59101	WALK_T2	0	0	0	0	0	0	1.12	1.16	1	1	0	600	600	0
7/2/2024 22:47	40502	CRES_T2	9	11	2	0.3	0.26	-0.04	-2.64	-2.67	0	0	0	0	0	0
7/2/2024 22:47	24104	EHAZ_T1	0	0	0	0	0	0	-0.81	-0.82	1	1	0	1200	1200	0
7/2/2024 22:47	58401	MORO_T1	0	1	1	0	0	0	-0.77	-0.78	1	1	0	600	600	0
7/2/2024 22:47	14603	SWHI_T1	0	0	0	0	0	0	-0.01	-0.01	2	1	-1	1200	600	-600
7/2/2024 22:47	41303	FISH_T1	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
7/2/2024 22:47	43202	MVIL_T2	284	376	92	0.8	0.84	0.04	-0.59	-0.6	0	0	0	0	0	0
7/2/2024 22:47	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:47	24103	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:47	40901	JESH_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
7/2/2024 22:47	42902	MIDD_T2	0	0	0	0	0	0	-0.7	-0.74	1	1	0	600	600	0
7/2/2024 22:47	40902	JESH_T1	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
7/2/2024 22:47	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/2/2024 22:47	20603	GRWO_T2	52	6	-46	0.27	0.12	-0.15	-0.53	0.45	1	0	-1	900	0	-900
7/2/2024 22:47	42903	MIDD_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
7/2/2024 22:47	42201	SHEN_T2	0	0	0	0	0	0	0.2	0.19	1	1	0	600	600	0
7/2/2024 22:47	67203	TEHI_T1	0	0	0	0	0	0	2.27	2.23	2	2	0	1500	1500	0
7/2/2024 22:47	24105	EHAZ_T1	4	4	0	6.13	6.63	0.5	0	0	0	0	0	0	0	0
7/2/2024 22:47	43302	WATS_T2	1	4	3	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/2/2024 22:47	20403	ASHF_T2	0	0	0	0	0	0	0.92	0.85	0	0	0	0	0	0
7/2/2024 22:48	63803	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:48	43302	WATS_T2	1	4	3	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/2/2024 22:48	44801	EDAN_T2	0	1	1	0	0	0	0.66	0.65	0	0	0	0	0	0
7/2/2024 22:48	52403	GRPA_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
7/2/2024 22:48	60101	COCA_T1	0	0	0	0	0	0	1.19	1.15	0	0	0	0	0	0
7/2/2024 22:48	56801	BENV_T1	11	14	3	0.64	0.7	0.06	-0.5	-0.53	1	1	0	600	600	0
7/2/2024 22:48	49804	UNIV_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/2/2024 22:48	61102	BERK_T5	0	0	0	0	0	0	0.02	-0.08	1	1	0	300	300	0
7/2/2024 22:48	63804	HEMP_T1	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
7/2/2024 22:48	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.34	0	0	0	0	0	0
7/2/2024 22:48	43304	WATS_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
7/2/2024 22:48	52002	LING_T2	0	0	0	0	0	0	0.28	0.24	0	0	0	0	0	0
7/2/2024 22:48	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/2/2024 22:48	43301	WATS_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/2/2024 22:48	56803	BENV_T1	25	27	2	0.76	0.65	-0.11	0	0	0	0	0	0	0	0
7/2/2024 22:48	52402	GRPA_T2	4	4	0	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
7/2/2024 22:48	49803	UNIV_T1	0	0	0	0	0	0	-0.92	-0.96	0	0	0	0	0	0
7/2/2024 22:48	60201	ATGL_T2	0	0	0	0	0	0	0.19	0.28	1	1	0	300	300	0
7/2/2024 22:48	11104	EGYP_T1	0	2	2	0	0.35	0.35	0.47	0.44	0	0	0	0	0	0
7/2/2024 22:48	63801	HEMP_T1	0	0	0	0	0	0	-0.47	-0.61	1	1	0	900	900	0
7/2/2024 22:48	52404	GRPA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/2/2024 22:48	52401	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/2/2024 22:48	24902	WHHA_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
7/2/2024 22:48	64101	REFR_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
7/2/2024 22:48	24901	WHHA_T1	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
7/2/2024 22:49	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/2/2024 22:49	20601	GRWO_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
7/2/2024 22:49	43302	WATS_T2	1	4	3	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/2/2024 22:49	53501	EVIL_T2	2	1	-1	0.8	0.8	0	-0.66	-0.68	1	1	0	600	600	0
7/2/2024 22:49	14404	SSLA_T1	1	1	0	5.2	5.6	0.4	0	0	0	0	0	0	0	0
7/2/2024 22:49	14403	SSLA_T1	0	0	0	0	0	0	0.96	0.91	0	0	0	0	0	0
7/2/2024 22:49	48301	ORWI_T1	2	2	0	5.05	5.2	0.15	0.17	0.14	0	0	0	0	0	0
7/2/2024 22:49	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:49	67201	TEHI_T1	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
7/2/2024 22:49	43301	WATS_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/2/2024 22:49	42201	SHEN_T2	0	0	0	0	0	0	0.2	0.19	1	1	0	600	600	0
7/2/2024 22:49	45802	HEGI_T2	38	47	9	0.64	1.29	0.65	0.62	0.72	1	1	0	300	300	0
7/2/2024 22:49	58001	WCAR_T1	4	4	0	1.08	0.98	-0.1	0	0	0	0	0	0	0	0
7/2/2024 22:49	42902	MIDD_T2	0	0	0	0	0	0	-0.7	-0.74	1	1	0	600	600	0
7/2/2024 22:49	55101	WERT_T1	0	0	0	0	0	0	-3.85	-3.85	6	6	0	4800	4800	0
7/2/2024 22:49	20603	GRWO_T2	52	6	-46	0.27	0.12	-0.15	0	0	0	0	0	0	0	0
7/2/2024 22:49	58003	WCAR_T1	1	1	0	1.2	1.4	0.2	1.76	1.72	0	0	0	0	0	0
7/2/2024 22:49	44301	BEAV_T2	0	0	0	0	0	0	0.28	0.15	1	1	0	600	600	0
7/2/2024 22:49	56501	ROCK_T2	3	5	2	0.4	0.5	0.1	-1.49	-1.57	0	0	0	0	0	0
7/2/2024 22:49	43304	WATS_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
7/2/2024 22:49	64101	REFR_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
7/2/2024 22:49	55002	NEWP_T1	1	3	2	0.1	0.33	0.23	-0.13	-0.14	0	0	0	0	0	0
7/2/2024 22:49	42903	MIDD_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
7/2/2024 22:50	16302	ALPA_T2	0	0	0	0	0	0	1	0.98	0	0	0	0	0	0
7/2/2024 22:50	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/2/2024 22:50	60201	ATGL_T2	0	0	0	0	0	0	0.38	0.56	2	2	0	600	600	0
7/2/2024 22:50	20401	ASHF_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
7/2/2024 22:50	43302	WATS_T2	1	4	3	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/2/2024 22:50	67605	WARW_T1	0	0	0	0	0	0	-1.12	-1.17	0	0	0	0	0	0
7/2/2024 22:50	20601	GRWO_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
7/2/2024 22:50	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
7/2/2024 22:50	43301	WATS_T2	0	1	1	0	0.4	0.4	-0.44	-0.49	1	1	0	900	900	0
7/2/2024 22:50	64101	REFR_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
7/2/2024 22:50	63401	HONY_T1	0	0	0	0	0	0	0.18	0.16	1	1	0	600	600	0
7/2/2024 22:50	47401	PENS_T1	0	0	0	0	0	0	-0.12	1.15	0	0	0	0	0	0
7/2/2024 22:50	20403	ASHF_T2	0	0	0	0	0	0	0.46	0.42	0	0	0	0	0	0
7/2/2024 22:50	43304	WATS_T2	0	0	0	0	0	0	-0.35	-0.39	0	0	0	0	0	0
7/2/2024 22:50	42903	MIDD_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
7/2/2024 22:50	20603	GRWO_T2	52	6	-46	0.27	0.12	-0.15	0	0	0	0	0	0	0	0
7/2/2024 22:50	67402	WAKE_T2	0	0	0	0	0	0	-0.3	-0.35	2	2	0	1200	1200	0
7/2/2024 22:50	56803	BENV_T1	25	27	2	0.76	0.65	-0.11	0	0	0	0	0	0	0	0
7/2/2024 22:50	61102	BERK_T5	0	0	0	0	0	0	0.02	-0.08	1	1	0	300	300	0
7/2/2024 22:50	46101	MACI_T2	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
7/2/2024 22:50	42902	MIDD_T2	0	0	0	0	0	0	-0.7	-0.74	1	1	0	600	600	0
7/2/2024 22:50	56501	ROCK_T2	3	5	2	0.4	0.5	0.1	-1.49	-1.57	0	0	0	0	0	0
7/2/2024 22:50	56801	BENV_T1	11	14	3	0.64	0.7	0.06	-1.01	-1.06	2	2	0	1200	1200	0
7/2/2024 22:51	53801	MBRG_T2	0	32	32	0	0.14	0.14	0	0	0	0	0	0	0	0
7/2/2024 22:51	41901	REED_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
7/2/2024 22:51	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:51	64101	REFR_T1	0	0	0	0	0	0	0.18	0.39	0	0	0	0	0	0
7/2/2024 22:51	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.34	0	0	0	0	0	0
7/2/2024 22:51	67605	WARW_T1	0	0	0	0	0	0	-1.17	-1.06	0	0	0	0	0	0
7/2/2024 22:51	40901	JESH_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
7/2/2024 22:51	47401	PENS_T1	0	0	0	0	0	0	1.15	1.04	0	0	0	0	0	0
7/2/2024 22:51	40603	PIGR_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
7/2/2024 22:51	40502	CRES_T2	9	11	2	0.3	0.26	-0.04	-0.64	-0.67	0	0	0	0	0	0
7/2/2024 22:51	46206	DANV_T2	0	0	0	0	0	0	1.9	1.86	2	2	0	2100	2100	0
7/2/2024 22:51	56801	BENV_T1	11	14	3	0.64	0.7	0.06	-1.01	-1.06	2	2	0	1200	1200	0
7/2/2024 22:51	53802	MBRG_T2	0	0	0	0	0	0	0.72	0.67	0	0	0	0	0	0
7/2/2024 22:51	41902	REED_T1	0	0	0	0	0	0	0.59	0.51	2	2	0	1800	1800	0
7/2/2024 22:51	40601	PIGR_T1	0	27	27	0	0.17	0.17	-0.01	-0.02	0	0	0	0	0	0
7/2/2024 22:51	40902	JESH_T1	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
7/2/2024 22:51	40802	EXCH_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
7/2/2024 22:51	56501	ROCK_T2	3	5	2	0.4	0.5	0.1	-1.49	-1.57	0	0	0	0	0	0
7/2/2024 22:51	56803	BENV_T1	25	27	2	0.76	0.65	-0.11	0	0	0	0	0	0	0	0
7/2/2024 22:51	46801	HEPB_T2	2	2	0	1.3	1.55	0.25	-0.2	-0.23	0	0	0	0	0	0
7/2/2024 22:52	56801	BENV_T1	11	14	3	0.64	0.7	0.06	-0.53	-0.55	1	1	0	600	600	0
7/2/2024 22:52	43801	SWIL_T1	2	2	0	3.35	3.2	-0.15	0	0	0	0	0	0	0	0
7/2/2024 22:52	40502	CRES_T2	9	11	2	0.3	0.26	-0.04	-1.35	-1.41	0	0	0	0	0	0
7/2/2024 22:52	42902	MIDD_T2	0	0	0	0	0	0	-0.74	-0.6	1	1	0	600	600	0
7/2/2024 22:52	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:52	63401	HONY_T1	0	0	0	0	0	0	0.16	0.02	1	1	0	600	600	0
7/2/2024 22:52	52401	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/2/2024 22:52	56803	BENV_T1	25	27	2	0.76	0.65	-0.11	0	0	0	0	0	0	0	0
7/2/2024 22:52	52402	GRPA_T2	4	4	0	0.43	0.4	-0.03	-0.75	-0.72	0	0	0	0	0	0
7/2/2024 22:52	52404	GRPA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/2/2024 22:52	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:52	58402	MORO_T1	0	0	0	0	0	0	-0.26	-0.29	2	2	0	1500	1500	0
7/2/2024 22:52	58401	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:52	42903	MIDD_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
7/2/2024 22:52	63202	MGTN_T2	0	0	0	0	0	0	-0.06	-0.08	1	1	0	900	900	0
7/2/2024 22:52	65802	RTWN_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
7/2/2024 22:52	43802	SWIL_T1	0	0	0	0	0	0	0.06	0.04	1	1	0	600	600	0
7/2/2024 22:53	56801	BENV_T1	11	14	3	0.64	0.7	0.06	-0.53	-0.55	1	1	0	600	600	0
7/2/2024 22:53	52403	GRPA_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
7/2/2024 22:53	22901	HARW_T1	0	0	0	0	0	0	-0.42	-0.36	1	1	0	1200	1200	0
7/2/2024 22:53	58401	MORO_T1	0	1	1	0	0	0	-0.78	-0.8	1	1	0	600	600	0
7/2/2024 22:53	52401	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/2/2024 22:53	52402	GRPA_T2	4	4	0	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
7/2/2024 22:53	22905	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:53	40901	JESH_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
7/2/2024 22:53	47401	PENS_T1	0	0	0	0	0	0	1.15	1.04	0	0	0	0	0	0
7/2/2024 22:53	12701	MACU_T1	0	0	0	0	0	0	-2	-2.02	2	2	0	2400	2400	0
7/2/2024 22:53	56803	BENV_T1	25	27	2	0.76	0.65	-0.11	0	0	0	0	0	0	0	0
7/2/2024 22:53	52404	GRPA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/2/2024 22:53	42201	SHEN_T2	0	0	0	0	0	0	0.19	0.81	1	0	-1	600	0	-600
7/2/2024 22:53	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 22:53	40902	JESH_T1	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
7/2/2024 22:53	40502	CRES_T2	9	11	2	0.3	0.26	-0.04	-0.67	-0.71	0	0	0	0	0	0
7/2/2024 22:54	59101	WALK_T2	0	0	0	0	0	0	1.16	1.03	1	1	0	600	600	0
7/2/2024 22:54	14403	SSLA_T1	0	0	0	0	0	0	0.91	0.88	0	0	0	0	0	0
7/2/2024 22:54	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 22:54	52002	LING_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
7/2/2024 22:54	63401	HONY_T1	0	0	0	0	0	0	0.16	0.02	1	1	0	600	600	0
7/2/2024 22:54	14404	SSLA_T1	1	1	0	5.2	5.6	0.4	0	0	0	0	0	0	0	0
7/2/2024 22:55	52402	GRPA_T2	4	4	0	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
7/2/2024 22:55	52403	GRPA_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
7/2/2024 22:55	59101	WALK_T2	0	0	0	0	0	0	1.16	1.03	1	1	0	600	600	0
7/2/2024 22:55	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/2/2024 22:55	52404	GRPA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/2/2024 22:55	52401	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/2/2024 22:55	40101	HUNT_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
7/2/2024 22:56	56803	BENV_T1	25	27	2	0.76	0.65	-0.11	0	0	0	0	0	0	0	0
7/2/2024 22:56	56801	BENV_T1	11	14	3	0.64	0.7	0.06	-0.53	-0.55	1	1	0	600	600	0
7/2/2024 22:57	42902	MIDD_T2	0	0	0	0	0	0	-0.74	-0.6	1	1	0	600	600	0
7/2/2024 22:57	42903	MIDD_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
7/2/2024 22:58	63304	GREE_T1	0	0	0	0	0	0	-1.42	-1.46	0	0	0	0	0	0
7/2/2024 22:58	63305	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 23:03	67801	WLAN_T1	0	0	0	0	0	0	-0.37	-0.4	0	0	0	0	0	0
7/2/2024 23:07	52006	LING_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/2/2024 23:07	52002	LING_T2	0	0	0	0	0	0	0.24	0.18	0	0	0	0	0	0
7/2/2024 23:11	52006	LING_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/2/2024 23:11	52004	LING_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
7/2/2024 23:24	56802	BENV_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
7/2/2024 23:46	43402	BENT_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	900	900	0
7/2/2024 23:46	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 23:47	43402	BENT_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	900	900	0
7/2/2024 23:47	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/2/2024 23:51	56501	ROCK_T2	6	31	25	0.48	0.21	-0.27	-1.67	-1.69	0	0	0	0	0	0
7/2/2024 23:58	61701	ELIZ_T1	1	1	0	4.6	4.9	0.3	0.32	0.37	0	0	0	0	0	0
7/3/2024 0:03	16202	POKA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 0:07	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	900	900	0
7/3/2024 0:08	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	900	900	0
7/3/2024 0:17	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/3/2024 0:17	52404	GRPA_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
7/3/2024 0:30	24103	EHAZ_T1	0	0	0	0	0	0	-1.54	-1.54	0	0	0	0	0	0
7/3/2024 0:30	24105	EHAZ_T1	4	4	0	6.48	6.4	-0.08	0	0	0	0	0	0	0	0
7/3/2024 0:30	24102	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 0:48	52402	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/3/2024 0:48	52404	GRPA_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
7/3/2024 0:48	52401	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/3/2024 0:48	22701	MINO_T1	0	0	0	0	0	0	-0.73	-0.75	1	1	0	600	600	0
7/3/2024 1:02	58003	WCAR_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
7/3/2024 1:02	58001	WCAR_T1	4	4	0	0.88	0.73	-0.15	-0.12	-0.15	0	0	0	0	0	0
7/3/2024 1:35	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.93	1	1	0	900	900	0
7/3/2024 1:36	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
7/3/2024 1:57	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
7/3/2024 1:58	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
7/3/2024 2:19	67605	WARW_T1	16	25	9	0.76	0.6	-0.16	-1.14	-1.15	0	0	0	0	0	0
7/3/2024 2:58	24102	EHAZ_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
7/3/2024 2:58	24105	EHAZ_T1	4	4	0	6.13	6.1	-0.03	0	0	0	0	0	0	0	0
7/3/2024 3:16	64202	KINZ_T1	3	3	0	0.33	0.77	0.44	0	0	0	0	0	0	0	0
7/3/2024 3:16	64201	KINZ_T1	1	7	6	1.3	0.36	-0.94	0	0	0	0	0	0	0	0
7/3/2024 3:16	64204	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
7/3/2024 3:16	64203	KINZ_T1	0	0	0	0	0	0	0.48	0.43	0	0	0	0	0	0
7/3/2024 4:19	65901	SAKR_T2	1	1	0	8.6	8.4	-0.2	-1.13	-1.13	1	1	0	900	900	0
7/3/2024 6:22	46302	ROHR_T1	19	6	-13	0.64	1.73	1.09	0.24	0.25	0	0	0	0	0	0
7/3/2024 6:22	46301	ROHR_T1	188	120	-68	0.27	0.21	-0.06	0	0	0	0	0	0	0	0
7/3/2024 6:23	56501	ROCK_T2	3	1	-2	0.23	0.1	-0.13	-0.55	-0.53	0	0	0	0	0	0
7/3/2024 6:37	24902	WHHA_T1	1	1	0	1.5	1	-0.5	0.69	0.7	0	0	0	0	0	0
7/3/2024 6:38	66903	SHIL_T2	840	360	-480	0.22	0.23	0.01	0	0	0	0	0	0	0	0
7/3/2024 6:38	66901	SHIL_T2	400	333	-67	0.38	0.35	-0.03	-0.03	0.01	0	0	0	0	0	0
7/3/2024 6:38	66902	SHIL_T2	632	475	-157	0.34	0.29	-0.05	0	0	0	0	0	0	0	0
7/3/2024 6:42	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.87	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/3/2024 6:56	61103	BERK_T5	0	0	0	0	0	0	-0.54	0.05	0	0	0	0	0	0
7/3/2024 6:56	11103	EGYP_T1	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
7/3/2024 6:57	61503	EPET_T1	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
7/3/2024 7:09	60802	BUCK_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
7/3/2024 7:11	67303	WYOM_T2	0	4	4	0	0.15	0.15	-2.7	-2.37	0	0	0	0	0	0
7/3/2024 7:12	54505	ENOL_T2	0	0	0	0	0	0	-1.24	-1.24	1	1	0	600	600	0
7/3/2024 7:13	54505	ENOL_T2	0	0	0	0	0	0	-1.24	-1.24	1	1	0	600	600	0
7/3/2024 7:15	54502	ENOL_T2	0	0	0	0	0	0	-1.1	-1.1	1	1	0	600	600	0
7/3/2024 7:15	43202	MVIL_T2	72	93	21	0.48	0.73	0.25	-0.59	-0.58	0	0	0	0	0	0
7/3/2024 7:16	58402	MORO_T1	0	1	1	0	0	0	-0.78	-0.72	3	3	0	2400	2400	0
7/3/2024 7:21	61301	EARL_T1	0	0	0	0	0	0	-1.3	-1.3	2	2	0	1800	1800	0
7/3/2024 7:21	61302	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 7:26	10705	CATA_T2	0	0	0	0	0	0	-0.76	-0.74	1	1	0	900	900	0
7/3/2024 7:29	62102	ELAN_T1	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
7/3/2024 7:31	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
7/3/2024 7:32	56501	ROCK_T2	2	2	0	0.4	0.5	0.1	-3.62	-3.59	0	0	0	0	0	0
7/3/2024 7:33	56501	ROCK_T2	2	2	0	0.4	0.5	0.1	-1.81	-1.8	0	0	0	0	0	0
7/3/2024 7:33	64902	MILL_T2	0	0	0	0	0	0	-1.04	-0.44	1	1	0	900	900	0
7/3/2024 7:35	64904	MILL_T1	0	0	0	0	0	0	-0.26	-0.18	0	0	0	0	0	0
7/3/2024 7:37	56501	ROCK_T2	2	2	0	0.4	0.5	0.1	-1.8	-1.78	0	0	0	0	0	0
7/3/2024 7:37	43402	BENT_T1	0	0	0	0	0	0	-0.71	-0.7	1	1	0	900	900	0
7/3/2024 7:41	62104	ELAN_T1	0	0	0	0	0	0	1.58	1.64	4	4	0	3000	3000	0
7/3/2024 7:43	62104	ELAN_T1	0	0	0	0	0	0	0.79	0.82	2	2	0	1500	1500	0
7/3/2024 7:45	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 7:45	13501	MCMI_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
7/3/2024 7:45	24105	EHAZ_T1	4	4	0	5.78	5.8	0.02	0	0	0	0	0	0	0	0
7/3/2024 7:45	24102	EHAZ_T1	1	4	3	0.1	0.43	0.33	1.43	1.45	0	0	0	0	0	0
7/3/2024 7:46	24902	WHHA_T1	2	1	-1	0.5	0.5	0	0.72	0.73	0	0	0	0	0	0
7/3/2024 7:46	24901	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 7:47	64904	MILL_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
7/3/2024 7:47	47802	MOCA_T2	0	1	1	0	0.1	0.1	-0.62	-0.6	0	0	0	0	0	0
7/3/2024 7:50	47802	MOCA_T2	0	1	1	0	0.1	0.1	-0.62	-0.6	0	0	0	0	0	0
7/3/2024 7:51	43202	MVIL_T2	91	94	3	0.65	0.99	0.34	-0.56	-0.56	0	0	0	0	0	0
7/3/2024 7:57	40602	PIGR_T1	0	1	1	0	0	0	0.86	0.89	0	0	0	0	0	0
7/3/2024 7:57	40601	PIGR_T1	209	241	32	0.29	0.38	0.09	0	0	0	0	0	0	0	0
7/3/2024 7:57	43402	BENT_T1	0	0	0	0	0	0	-0.7	-0.69	1	1	0	900	900	0
7/3/2024 7:58	14404	SSLA_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
7/3/2024 7:58	14403	SSLA_T1	0	0	0	0	0	0	0.91	0.93	0	0	0	0	0	0
7/3/2024 7:58	43402	BENT_T1	0	0	0	0	0	0	-0.7	-0.69	1	1	0	900	900	0
7/3/2024 7:59	29401	BELT_T1	4	2	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
7/3/2024 7:59	40801	EXCH_T2	1	2	1	0.1	0.35	0.25	-0.27	-0.31	1	1	0	1200	1200	0
7/3/2024 7:59	40802	EXCH_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/3/2024 7:59	58702	ROSE_T2	0	1	1	0	0	0	-2.19	-2.23	0	0	0	0	0	0
7/3/2024 7:59	58705	ROSE_T2	5	5	0	1.66	1.56	-0.1	0	0	0	0	0	0	0	0
7/3/2024 7:59	29402	BELT_T1	1	1	0	8.5	8.1	-0.4	0	0	0	0	0	0	0	0
7/3/2024 7:59	58706	ROSE_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/3/2024 8:00	57403	SPAN_T1	57	37	-20	0.23	0.25	0.02	0.09	0.11	0	0	0	0	0	0
7/3/2024 8:00	57401	SPAN_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
7/3/2024 8:01	58702	ROSE_T2	0	0	0	0	0	0	-2.19	-2.23	0	0	0	0	0	0
7/3/2024 8:01	58705	ROSE_T2	4	5	1	1.83	1.46	-0.37	0	0	0	0	0	0	0	0
7/3/2024 8:01	58706	ROSE_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/3/2024 8:02	45702	LIND_T2	1	1	0	0.6	0.2	-0.4	-0.29	-0.26	0	0	0	0	0	0
7/3/2024 8:05	43402	BENT_T1	0	0	0	0	0	0	-0.7	-0.69	1	1	0	900	900	0
7/3/2024 8:14	56802	BENV_T2	1	1	0	0.1	0.8	0.7	-2.36	-0.96	0	0	0	0	0	0
7/3/2024 8:14	11102	EGYP_T1	0	1	1	0	0	0	-0.24	-0.21	0	0	0	0	0	0
7/3/2024 8:14	11101	EGYP_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/3/2024 8:14	11103	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 8:16	44201	POIN_T1	0	0	0	0	0	0	-2.19	-2.13	2	2	0	2100	2100	0
7/3/2024 8:16	56802	BENV_T2	1	1	0	0.8	0.6	-0.2	-1.18	-0.48	0	0	0	0	0	0
7/3/2024 8:16	46004	BERW_T2	0	0	0	0	0	0	0.42	0.33	0	0	0	0	0	0
7/3/2024 8:17	56802	BENV_T2	1	1	0	0.8	0.6	-0.2	-2.36	-0.96	0	0	0	0	0	0
7/3/2024 8:18	59101	WALK_T2	1	3	2	0.8	0.2	-0.6	2.25	2.48	0	0	0	0	0	0
7/3/2024 8:18	64101	REFR_T1	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
7/3/2024 8:19	59101	WALK_T2	1	3	2	0.8	0.2	-0.6	2.25	2.48	0	0	0	0	0	0
7/3/2024 8:19	64101	REFR_T1	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
7/3/2024 8:19	58402	MORO_T1	0	0	0	0	0	0	-0.57	-0.59	3	3	0	2400	2400	0
7/3/2024 8:20	58003	WCAR_T1	4	2	-2	0.65	0.65	0	0.26	0.91	1	0	-1	600	0	-600
7/3/2024 8:20	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 8:20	58001	WCAR_T1	5	4	-1	1.14	1.13	-0.01	0	0	0	0	0	0	0	0
7/3/2024 8:20	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
7/3/2024 8:20	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
7/3/2024 8:21	64101	REFR_T1	0	0	0	0	0	0	0.18	0.22	0	0	0	0	0	0
7/3/2024 8:21	67505	WEWI_T1	0	0	0	0	0	0	0.18	0.27	1	1	0	900	900	0
7/3/2024 8:22	64101	REFR_T1	0	0	0	0	0	0	0.27	0.33	0	0	0	0	0	0
7/3/2024 8:23	67505	WEWI_T1	0	0	0	0	0	0	0.18	0.27	1	1	0	900	900	0
7/3/2024 8:23	44301	BEAV_T2	1	1	0	2	1	-1	0.3	0.16	2	2	0	1500	1500	0
7/3/2024 8:23	64101	REFR_T1	0	0	0	0	0	0	0.18	0.22	0	0	0	0	0	0
7/3/2024 8:25	44301	BEAV_T2	1	1	0	2	1	-1	0.3	0.16	2	2	0	1500	1500	0
7/3/2024 8:28	44301	BEAV_T2	1	1	0	2	1	-1	0.3	0.16	2	2	0	1500	1500	0
7/3/2024 8:29	44601	SALE_T2	0	0	0	0	0	0	1.23	1.22	1	2	1	600	900	300
7/3/2024 8:30	23202	HIRU_T2	4	10	6	0.1	0.12	0.02	0	0	0	0	0	0	0	0
7/3/2024 8:30	46302	ROHR_T1	128	65	-63	0.35	0.39	0.04	0.29	0.29	0	0	0	0	0	0
7/3/2024 8:30	23201	HIRU_T2	29	13	-16	0.12	0.16	0.04	0	0	0	0	0	0	0	0
7/3/2024 8:30	21203	ECAR_T1	0	0	0	0	0	0	0.85	0.88	0	0	0	0	0	0
7/3/2024 8:30	23203	HIRU_T2	3	4	1	0.1	0.1	0	0.16	0.17	0	0	0	0	0	0
7/3/2024 8:30	46301	ROHR_T1	312	304	-8	0.69	0.59	-0.1	0	0	0	0	0	0	0	0
7/3/2024 8:32	53902	HALI_T2	1	2	1	5.5	2.7	-2.8	0	0	0	0	0	0	0	0
7/3/2024 8:32	44601	SALE_T2	0	0	0	0	0	0	1.23	1.22	1	2	1	600	900	300
7/3/2024 8:32	53901	HALI_T2	1	1	0	0.9	0.8	-0.1	-1.27	-1.26	0	0	0	0	0	0
7/3/2024 8:32	55002	NEWP_T1	6	10	4	0.62	0.61	-0.01	-0.14	-0.13	0	0	0	0	0	0
7/3/2024 8:32	53903	HALI_T2	2	2	0	1.4	1.05	-0.35	0	0	0	0	0	0	0	0
7/3/2024 8:32	55001	NEWP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/3/2024 8:33	46301	ROHR_T1	312	304	-8	0.69	0.59	-0.1	0	0	0	0	0	0	0	0
7/3/2024 8:33	46302	ROHR_T1	128	65	-63	0.35	0.39	0.04	0.29	0.29	0	0	0	0	0	0
7/3/2024 8:33	55001	NEWP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/3/2024 8:33	55002	NEWP_T1	6	10	4	0.62	0.61	-0.01	-0.14	-0.13	0	0	0	0	0	0
7/3/2024 8:34	53901	HALI_T2	1	1	0	0.9	0.8	-0.1	-1.27	-1.26	0	0	0	0	0	0
7/3/2024 8:34	53902	HALI_T2	1	2	1	5.5	2.7	-2.8	0	0	0	0	0	0	0	0
7/3/2024 8:34	53903	HALI_T2	2	2	0	1.4	1.05	-0.35	0	0	0	0	0	0	0	0
7/3/2024 8:34	64101	REFR_T1	0	0	0	0	0	0	0.36	0.44	0	0	0	0	0	0
7/3/2024 8:34	13302	ORVI_T2	36	10	-26	0.19	0.28	0.09	0.61	0.8	0	0	0	0	0	0
7/3/2024 8:34	55002	NEWP_T1	6	10	4	0.62	0.61	-0.01	-0.27	-0.26	0	0	0	0	0	0
7/3/2024 8:34	67002	STHI_T2	0	0	0	0	0	0	0.96	0.98	0	0	0	0	0	0
7/3/2024 8:34	55001	NEWP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/3/2024 8:35	67002	STHI_T2	0	0	0	0	0	0	0.96	0.98	0	0	0	0	0	0
7/3/2024 8:35	64101	REFR_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
7/3/2024 8:36	53903	HALI_T2	2	2	0	1.4	1.05	-0.35	0	0	0	0	0	0	0	0
7/3/2024 8:36	53901	HALI_T2	1	1	0	0.9	0.8	-0.1	-2.55	-2.51	0	0	0	0	0	0
7/3/2024 8:36	64101	REFR_T1	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
7/3/2024 8:36	53902	HALI_T2	1	2	1	5.5	2.7	-2.8	0	0	0	0	0	0	0	0
7/3/2024 8:37	53903	HALI_T2	2	2	0	1.4	1.05	-0.35	0	0	0	0	0	0	0	0
7/3/2024 8:37	53901	HALI_T2	1	1	0	0.9	0.8	-0.1	-2.51	-2.48	0	0	0	0	0	0
7/3/2024 8:37	64101	REFR_T1	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
7/3/2024 8:37	53902	HALI_T2	1	2	1	5.5	2.7	-2.8	0	0	0	0	0	0	0	0
7/3/2024 8:38	64101	REFR_T1	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
7/3/2024 8:40	43402	BENT_T1	0	0	0	0	0	0	-0.66	-0.65	1	1	0	900	900	0
7/3/2024 8:41	43402	BENT_T1	0	0	0	0	0	0	-0.66	-0.65	1	1	0	900	900	0
7/3/2024 8:42	14403	SSLA_T1	0	0	0	0	0	0	0.97	1	0	0	0	0	0	0
7/3/2024 8:42	14404	SSLA_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
7/3/2024 8:44	41902	REED_T1	1	1	0	0.1	0	-0.1	1.31	1.3	0	0	0	0	0	0
7/3/2024 8:46	41902	REED_T1	1	1	0	0.3	0	-0.3	1.31	1.3	0	0	0	0	0	0
7/3/2024 8:50	12801	MICK_T1	0	0	0	0	0	0	-0.51	-0.52	1	1	0	600	600	0
7/3/2024 8:50	12807	MICK_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/3/2024 8:51	67605	WARW_T1	3	3	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/3/2024 8:51	67603	WARW_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
7/3/2024 8:53	67605	WARW_T1	3	3	0	0.3	0.2	-0.1	-0.73	-0.76	0	0	0	0	0	0
7/3/2024 8:54	67605	WARW_T1	3	3	0	0.3	0.2	-0.1	-1.46	-1.53	0	0	0	0	0	0
7/3/2024 9:01	23203	HIRU_T2	0	5	5	0	0.1	0.1	0.18	0.18	0	0	0	0	0	0
7/3/2024 9:01	23201	HIRU_T2	10	6	-4	0.14	0.15	0.01	0	0	0	0	0	0	0	0
7/3/2024 9:02	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.25	2	2	0	1200	1200	0
7/3/2024 9:04	64101	REFR_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
7/3/2024 9:05	64101	REFR_T1	0	0	0	0	0	0	0.26	0.31	0	0	0	0	0	0
7/3/2024 9:06	64101	REFR_T1	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
7/3/2024 9:06	58401	MORO_T1	0	0	0	0	0	0	-0.64	-0.62	1	1	0	600	600	0
7/3/2024 9:07	24801	VALM_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
7/3/2024 9:07	64101	REFR_T1	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
7/3/2024 9:08	64101	REFR_T1	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
7/3/2024 9:09	64101	REFR_T1	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
7/3/2024 9:10	20401	ASHF_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/3/2024 9:10	20403	ASHF_T2	0	0	0	0	0	0	1.48	1.59	0	0	0	0	0	0
7/3/2024 9:14	47001	HUGH_T2	3	3	0	7.6	8.6	1	-0.41	-0.42	0	0	0	0	0	0
7/3/2024 9:15	20401	ASHF_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/3/2024 9:15	20403	ASHF_T2	0	1	1	0	0	0	1.48	1.59	0	0	0	0	0	0
7/3/2024 9:16	46206	DANV_T2	5	16	11	0.88	0.84	-0.04	0	0	0	0	0	0	0	0
7/3/2024 9:16	46203	DANV_T2	0	0	0	0	0	0	-1.83	-1.68	0	0	0	0	0	0
7/3/2024 9:17	47001	HUGH_T2	3	4	1	8.2	6.5	-1.7	-0.41	-0.42	0	0	0	0	0	0
7/3/2024 9:18	46206	DANV_T2	5	16	11	0.88	0.84	-0.04	0	0	0	0	0	0	0	0
7/3/2024 9:18	46203	DANV_T2	0	0	0	0	0	0	-1.83	-1.68	0	0	0	0	0	0
7/3/2024 9:20	64902	MILL_T2	0	0	0	0	0	0	-0.28	-0.25	1	1	0	900	900	0
7/3/2024 9:23	43402	BENT_T1	1	2	1	0.1	0.45	0.35	-0.63	-0.61	1	1	0	900	900	0
7/3/2024 9:24	43402	BENT_T1	1	2	1	0.1	0.45	0.35	-0.63	-0.61	1	1	0	900	900	0
7/3/2024 9:26	67503	WEWI_T2	0	0	0	0	0	0	0.48	0.53	0	0	0	0	0	0
7/3/2024 9:26	67502	WEWI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/3/2024 9:33	24205	PROV_T3	6	67	61	0.18	0.29	0.11	0	0	0	0	0	0	0	0
7/3/2024 9:33	24201	PROV_T3	1	37	36	6.5	0.32	-6.18	-1.08	-1.05	1	1	0	1200	1200	0
7/3/2024 9:33	24204	PROV_T3	1	2	1	6.3	3.15	-3.15	0	0	0	0	0	0	0	0
7/3/2024 9:35	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/3/2024 9:35	56501	ROCK_T2	2	4	2	1.1	0.2	-0.9	-0.36	-0.25	0	0	0	0	0	0
7/3/2024 9:36	24205	PROV_T3	6	67	61	0.18	0.29	0.11	0	0	0	0	0	0	0	0
7/3/2024 9:36	24204	PROV_T3	1	2	1	6.3	3.15	-3.15	0	0	0	0	0	0	0	0
7/3/2024 9:36	24201	PROV_T3	1	37	36	6.5	0.32	-6.18	-1.08	-1.05	1	1	0	1200	1200	0
7/3/2024 9:38	64101	REFR_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
7/3/2024 9:43	64101	REFR_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/3/2024 9:45	43402	BENT_T1	2	2	0	0.45	0.4	-0.05	-0.61	-0.6	1	1	0	900	900	0
7/3/2024 9:46	43402	BENT_T1	2	2	0	0.45	0.4	-0.05	-0.61	-0.6	1	1	0	900	900	0
7/3/2024 9:46	13502	MCMI_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
7/3/2024 9:46	13501	MCMI_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
7/3/2024 9:48	53901	HALI_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/3/2024 9:48	53902	HALI_T2	3	3	0	1.7	2.23	0.53	0	0	0	0	0	0	0	0
7/3/2024 9:48	47401	PENS_T1	4	7	3	0.85	0.64	-0.21	0.1	0.38	0	0	0	0	0	0
7/3/2024 9:48	53903	HALI_T2	2	4	2	0.7	0.7	0	-0.02	0.01	0	0	0	0	0	0
7/3/2024 9:48	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/3/2024 9:49	47401	PENS_T1	4	7	3	0.85	0.64	-0.21	0.1	0.38	0	0	0	0	0	0
7/3/2024 9:49	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/3/2024 9:50	53902	HALI_T2	3	3	0	1.7	2.23	0.53	0	0	0	0	0	0	0	0
7/3/2024 9:50	53901	HALI_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/3/2024 9:50	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/3/2024 9:50	47401	PENS_T1	4	7	3	0.85	0.64	-0.21	0.05	0.19	0	0	0	0	0	0
7/3/2024 9:50	53903	HALI_T2	2	4	2	0.7	0.7	0	-0.02	0.01	0	0	0	0	0	0
7/3/2024 9:51	53903	HALI_T2	2	4	2	0.7	0.7	0	0	0	0	0	0	0	0	0
7/3/2024 9:51	53901	HALI_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/3/2024 9:51	53902	HALI_T2	3	3	0	1.7	2.23	0.53	-0.58	-0.56	0	0	0	0	0	0
7/3/2024 9:52	45702	LIND_T2	1	1	0	0.2	0.5	0.3	-0.11	-0.03	0	0	0	0	0	0
7/3/2024 9:53	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.71	-0.69	0	0	0	0	0	0
7/3/2024 9:53	67603	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 10:00	67502	WEWI_T2	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
7/3/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
7/3/2024 10:00	57401	SPAN_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/3/2024 10:00	24204	PROV_T3	1	2	1	6.1	3.1	-3	0	0	0	0	0	0	0	0
7/3/2024 10:00	64203	KINZ_T1	0	0	0	0	0	0	0.39	0.25	3	3	0	2100	2100	0
7/3/2024 10:00	64204	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/3/2024 10:00	60501	NMAN_T2	3	3	0	3.93	4.63	0.7	0	0	0	0	0	0	0	0
7/3/2024 10:00	57403	SPAN_T1	1	1	0	0.4	0.4	0	0.22	0.23	0	0	0	0	0	0
7/3/2024 10:00	24205	PROV_T3	23	40	17	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
7/3/2024 10:00	28102	TWLA_T2	0	2	2	0	0.3	0.3	0.23	0.23	0	0	0	0	0	0
7/3/2024 10:00	13302	ORVI_T2	1	2	1	1.3	0.95	-0.35	1.01	0.9	0	0	0	0	0	0
7/3/2024 10:00	47401	PENS_T1	7	7	0	0.51	0.82	0.31	0.19	0.13	0	0	0	0	0	0
7/3/2024 10:00	60504	NMAN_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
7/3/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-1.21	-1.2	2	2	0	1800	1800	0
7/3/2024 10:00	24201	PROV_T3	5	6	1	1.44	1.28	-0.16	-1.03	-1.01	1	1	0	1200	1200	0
7/3/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	0.27	0.32	0	0	0	0	0	0
7/3/2024 10:00	40505	CRES_T1	3	3	0	4.13	4	-0.13	0.67	0.68	0	0	0	0	0	0
7/3/2024 10:00	47402	PENS_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/3/2024 10:03	43402	BENT_T1	2	0	-2	0.4	0	-0.4	-0.6	-0.59	1	1	0	900	900	0
7/3/2024 10:04	60502	NMAN_T2	0	0	0	0	0	0	0.27	0.32	0	0	0	0	0	0
7/3/2024 10:04	60504	NMAN_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
7/3/2024 10:04	60501	NMAN_T2	3	3	0	3.93	4.63	0.7	0	0	0	0	0	0	0	0
7/3/2024 10:06	62102	ELAN_T1	1	1	0	0.8	1	0.2	1.08	1.2	0	0	0	0	0	0
7/3/2024 10:06	60504	NMAN_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
7/3/2024 10:06	60501	NMAN_T2	3	3	0	3.93	4.63	0.7	0	0	0	0	0	0	0	0
7/3/2024 10:06	60502	NMAN_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
7/3/2024 10:07	24204	PROV_T3	1	2	1	6.1	3.1	-3	0	0	0	0	0	0	0	0
7/3/2024 10:07	43202	MVIL_T2	64	67	3	0.55	0.5	-0.05	-0.49	-0.48	0	0	0	0	0	0
7/3/2024 10:07	24201	PROV_T3	5	6	1	1.44	1.28	-0.16	-1.01	-0.99	1	1	0	1200	1200	0
7/3/2024 10:07	24205	PROV_T3	23	40	17	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
7/3/2024 10:09	15702	TANN_T2	0	2	2	0	0.5	0.5	-0.19	-0.27	0	0	0	0	0	0
7/3/2024 10:09	15703	TANN_T2	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
7/3/2024 10:10	60801	BUCK_T1	0	1	1	0	0.1	0.1	-0.38	-0.4	1	1	0	600	600	0
7/3/2024 10:10	43301	WATS_T2	0	1	1	0	0.1	0.1	-0.37	-0.35	1	1	0	900	900	0
7/3/2024 10:10	43202	MVIL_T2	64	67	3	0.55	0.5	-0.05	-0.49	-0.48	0	0	0	0	0	0
7/3/2024 10:10	24801	VALM_T1	0	2	2	0	0.2	0.2	-0.1	-0.12	0	0	0	0	0	0
7/3/2024 10:11	20403	ASHF_T2	1	3	2	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
7/3/2024 10:11	20401	ASHF_T2	1	4	3	1.1	1.2	0.1	0.22	0.28	0	0	0	0	0	0
7/3/2024 10:11	46004	BERW_T2	0	0	0	0	0	0	0.68	0.74	0	0	0	0	0	0
7/3/2024 10:11	15702	TANN_T2	0	2	2	0	0.5	0.5	-0.1	-0.13	0	0	0	0	0	0
7/3/2024 10:11	15703	TANN_T2	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
7/3/2024 10:11	20402	ASHF_T2	0	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0
7/3/2024 10:12	24902	WHHA_T1	1	1	0	1.1	0.7	-0.4	1.62	1.74	0	0	0	0	0	0
7/3/2024 10:12	24901	WHHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 10:13	41902	REED_T1	0	1	1	0	0	0	1.25	1.31	0	0	0	0	0	0
7/3/2024 10:13	20402	ASHF_T2	0	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0
7/3/2024 10:13	24102	EHAZ_T1	3	19	16	0.8	1.28	0.48	0	0	0	0	0	0	0	0
7/3/2024 10:13	24103	EHAZ_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
7/3/2024 10:13	20403	ASHF_T2	1	3	2	0.9	0.2	-0.7	1.88	1.89	0	0	0	0	0	0
7/3/2024 10:13	46302	ROHR_T1	5	7	2	1.8	1.36	-0.44	0.32	0.33	0	0	0	0	0	0
7/3/2024 10:13	20401	ASHF_T2	1	4	3	1.1	1.2	0.1	0	0	0	0	0	0	0	0
7/3/2024 10:13	24101	EHAZ_T1	0	7	7	0	0.36	0.36	0	0	0	0	0	0	0	0
7/3/2024 10:13	24104	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 10:13	46301	ROHR_T1	190	216	26	0.35	0.37	0.02	0.34	0.35	0	0	0	0	0	0
7/3/2024 10:13	24105	EHAZ_T1	4	4	0	6.13	5.85	-0.28	0	0	0	0	0	0	0	0
7/3/2024 10:14	46302	ROHR_T1	5	7	2	1.8	1.36	-0.44	0	0	0	0	0	0	0	0
7/3/2024 10:14	40101	HUNT_T2	2	2	0	0.4	0.25	-0.15	-0.32	-0.3	0	0	0	0	0	0
7/3/2024 10:14	46301	ROHR_T1	190	216	26	0.35	0.37	0.02	0.34	0.35	0	0	0	0	0	0
7/3/2024 10:15	26401	INOR_T1	2	2	0	3.95	3.95	0	0	0	0	0	0	0	0	0
7/3/2024 10:15	46302	ROHR_T1	6	7	1	1.45	1.36	-0.09	0	0	0	0	0	0	0	0
7/3/2024 10:15	21201	ECAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 10:15	26402	INOR_T1	0	0	0	0	0	0	-1.57	-1.56	1	1	0	600	600	0
7/3/2024 10:15	21203	ECAR_T1	1	1	0	0.5	0.6	0.1	0	-0.01	0	0	0	0	0	0
7/3/2024 10:15	20401	ASHF_T2	4	4	0	0.53	1.2	0.67	0	0	0	0	0	0	0	0
7/3/2024 10:15	46301	ROHR_T1	202	206	4	0.36	0.36	0	0.34	0.35	0	0	0	0	0	0
7/3/2024 10:15	20403	ASHF_T2	2	3	1	0.45	0.2	-0.25	1.88	1.89	0	0	0	0	0	0
7/3/2024 10:16	41902	REED_T1	0	1	1	0	0	0	1.25	1.31	0	0	0	0	0	0
7/3/2024 10:17	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/3/2024 10:17	56501	ROCK_T2	3	3	0	0.23	0.3	0.07	-0.18	-0.15	0	0	0	0	0	0
7/3/2024 10:17	53903	HALI_T2	3	5	2	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/3/2024 10:17	56504	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/3/2024 10:17	58001	WCAR_T1	4	4	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
7/3/2024 10:17	53901	HALI_T2	1	1	0	0.7	0.6	-0.1	-1.15	-1.13	0	0	0	0	0	0
7/3/2024 10:17	58003	WCAR_T1	1	2	1	0.9	0.5	-0.4	1.07	1.04	0	0	0	0	0	0
7/3/2024 10:17	53902	HALI_T2	3	3	0	2.13	2.33	0.2	0	0	0	0	0	0	0	0
7/3/2024 10:18	56504	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/3/2024 10:18	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/3/2024 10:18	56501	ROCK_T2	3	3	0	0.23	0.3	0.07	-0.18	-0.15	0	0	0	0	0	0
7/3/2024 10:18	46301	ROHR_T1	202	206	4	0.36	0.36	0	0	0	0	0	0	0	0	0
7/3/2024 10:18	25501	MADI_T1	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
7/3/2024 10:18	53901	HALI_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
7/3/2024 10:18	53903	HALI_T2	3	5	2	0.8	0.5	-0.3	0.03	0.06	0	0	0	0	0	0
7/3/2024 10:18	25502	MADI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 10:18	53902	HALI_T2	3	3	0	2.13	2.33	0.2	0	0	0	0	0	0	0	0
7/3/2024 10:18	46302	ROHR_T1	6	7	1	1.45	1.36	-0.09	0.32	0.33	0	0	0	0	0	0
7/3/2024 10:18	25503	MADI_T1	42	64	22	0.2	0.23	0.03	-0.7	-0.7	0	0	0	0	0	0
7/3/2024 10:19	56501	ROCK_T2	3	3	0	0.23	0.3	0.07	-0.18	-0.15	0	0	0	0	0	0
7/3/2024 10:19	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/3/2024 10:19	65401	MARI_T1	0	11	11	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 10:19	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 10:19	56504	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/3/2024 10:21	58001	WCAR_T1	4	4	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
7/3/2024 10:21	56503	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/3/2024 10:21	53903	HALI_T2	3	5	2	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/3/2024 10:21	56501	ROCK_T2	3	3	0	0.23	0.3	0.07	-0.54	-0.44	0	0	0	0	0	0
7/3/2024 10:21	53902	HALI_T2	3	3	0	2.13	2.33	0.2	0	0	0	0	0	0	0	0
7/3/2024 10:21	58003	WCAR_T1	1	2	1	0.9	0.5	-0.4	1.07	1.04	0	0	0	0	0	0
7/3/2024 10:21	56504	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/3/2024 10:21	53901	HALI_T2	1	1	0	0.7	0.6	-0.1	-3.45	-3.4	0	0	0	0	0	0
7/3/2024 10:24	24801	VALM_T1	2	2	0	0.2	0.2	0	-0.12	-0.15	0	0	0	0	0	0
7/3/2024 10:25	67605	WARW_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/3/2024 10:25	67603	WARW_T1	0	0	0	0	0	0	0.47	0.5	0	0	0	0	0	0
7/3/2024 10:29	63401	HONY_T1	0	0	0	0	0	0	0.58	0.68	1	1	0	600	600	0
7/3/2024 10:29	20603	GRWO_T2	1	3	2	0.2	0.17	-0.03	-0.41	-0.41	1	1	0	900	900	0
7/3/2024 10:29	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 10:29	20601	GRWO_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/3/2024 10:29	63804	HEMP_T1	1	1	0	7.2	7.3	0.1	1.63	1.59	0	0	0	0	0	0
7/3/2024 10:30	20603	GRWO_T2	2	4	2	0.15	0.18	0.03	-0.41	-0.41	1	1	0	900	900	0
7/3/2024 10:30	57403	SPAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/3/2024 10:30	20601	GRWO_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/3/2024 10:30	57401	SPAN_T1	1	0	-1	0.2	0	-0.2	-3.25	-2.63	3	3	0	1800	1800	0
7/3/2024 10:31	63401	HONY_T1	0	0	0	0	0	0	0.58	0.68	1	1	0	600	600	0
7/3/2024 10:32	40101	HUNT_T2	2	7	5	0.4	0.15	-0.25	-0.3	-0.29	0	0	0	0	0	0
7/3/2024 10:32	57403	SPAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/3/2024 10:32	13503	MCMI_T2	8	9	1	0.44	0.5	0.06	0.19	0.22	0	0	0	0	0	0
7/3/2024 10:32	63401	HONY_T1	0	0	0	0	0	0	0.58	0.68	1	1	0	600	600	0
7/3/2024 10:32	57401	SPAN_T1	1	0	-1	0.2	0	-0.2	-4.33	-3.51	4	4	0	2400	2400	0
7/3/2024 10:33	48302	ORWI_T2	2	2	0	0.2	0.3	0.1	-0.33	-0.3	0	0	0	0	0	0
7/3/2024 10:34	13502	MCMI_T1	2	2	0	0.25	0.65	0.4	0	0	0	0	0	0	0	0
7/3/2024 10:34	57401	SPAN_T1	1	0	-1	0.2	0	-0.2	-1.08	-0.88	1	1	0	600	600	0
7/3/2024 10:34	13501	MCMI_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
7/3/2024 10:34	57403	SPAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/3/2024 10:35	13502	MCMI_T1	2	2	0	0.25	0.65	0.4	-0.1	-0.1	0	0	0	0	0	0
7/3/2024 10:35	47403	PENS_T1	0	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0
7/3/2024 10:35	47401	PENS_T1	6	3	-3	0.78	1.07	0.29	0.39	0.36	0	0	0	0	0	0
7/3/2024 10:35	47402	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/3/2024 10:35	13503	MCMI_T2	8	9	1	0.44	0.5	0.06	0.09	0.11	0	0	0	0	0	0
7/3/2024 10:36	13502	MCMI_T1	2	2	0	0.25	0.65	0.4	0	0	0	0	0	0	0	0
7/3/2024 10:36	67203	TEHI_T1	20	1	-19	0.46	0	-0.46	2.25	2.16	3	4	1	2100	3000	900
7/3/2024 10:36	47401	PENS_T1	6	3	-3	0.78	1.07	0.29	0.18	0.2	0	0	0	0	0	0
7/3/2024 10:36	67201	TEHI_T1	12	8	-4	0.83	0.6	-0.23	0	0	0	0	0	0	0	0
7/3/2024 10:36	47402	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/3/2024 10:36	47403	PENS_T1	0	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0
7/3/2024 10:38	67605	WARW_T1	1	1	0	0.3	0.4	0.1	-0.63	-0.61	0	0	0	0	0	0
7/3/2024 10:38	43301	WATS_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/3/2024 10:38	43304	WATS_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
7/3/2024 10:39	67605	WARW_T1	1	1	0	0.3	0.4	0.1	-1.9	-1.82	0	0	0	0	0	0
7/3/2024 10:40	43301	WATS_T2	1	1	0	0.1	0.1	0	-0.33	-0.31	1	1	0	900	900	0
7/3/2024 10:40	67605	WARW_T1	1	1	0	0.3	0.4	0.1	-1.27	-1.21	0	0	0	0	0	0
7/3/2024 10:42	40601	PIGR_T1	5	6	1	0.4	0.52	0.12	0.2	0.22	0	0	0	0	0	0
7/3/2024 10:42	40602	PIGR_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/3/2024 10:43	40602	PIGR_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/3/2024 10:43	40601	PIGR_T1	5	6	1	0.4	0.52	0.12	0.2	0.22	0	0	0	0	0	0
7/3/2024 10:43	47001	HUGH_T2	4	4	0	6.2	5.98	-0.22	-0.33	-0.29	0	0	0	0	0	0
7/3/2024 10:44	20402	ASHF_T2	1	0	-1	1.8	0	-1.8	0	0	0	0	0	0	0	0
7/3/2024 10:44	20403	ASHF_T2	2	2	0	0.2	0.4	0.2	1.87	1.86	0	0	0	0	0	0
7/3/2024 10:44	20401	ASHF_T2	1	4	3	1.2	0.83	-0.37	0	0	0	0	0	0	0	0
7/3/2024 10:46	40602	PIGR_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/3/2024 10:46	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 10:46	40601	PIGR_T1	5	6	1	0.56	0.53	-0.03	0.2	0.22	0	0	0	0	0	0
7/3/2024 10:46	47001	HUGH_T2	3	4	1	7.57	6.03	-1.54	-0.33	-0.29	0	0	0	0	0	0
7/3/2024 10:47	45801	HEGI_T1	0	0	0	0	0	0	0.43	0.43	1	1	0	900	900	0
7/3/2024 10:49	52403	GRPA_T2	3	6	3	0.8	0.15	-0.65	0	0	0	0	0	0	0	0
7/3/2024 10:49	53903	HALI_T2	4	4	0	0.38	0.55	0.17	0	0	0	0	0	0	0	0
7/3/2024 10:49	53901	HALI_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/3/2024 10:49	53902	HALI_T2	3	3	0	2.27	2	-0.27	-0.48	-0.45	0	0	0	0	0	0
7/3/2024 10:49	52404	GRPA_T2	0	0	0	0	0	0	0.37	0.27	0	0	0	0	0	0
7/3/2024 10:49	45303	WBER_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
7/3/2024 10:50	52403	GRPA_T2	3	6	3	0.8	0.15	-0.65	0	0	0	0	0	0	0	0
7/3/2024 10:50	52401	GRPA_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
7/3/2024 10:52	52404	GRPA_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
7/3/2024 10:52	52403	GRPA_T2	3	6	3	0.8	0.15	-0.65	0	0	0	0	0	0	0	0
7/3/2024 10:55	44301	BEAV_T2	1	4	3	1.4	0.83	-0.57	0.75	0.78	2	2	0	1500	1500	0
7/3/2024 10:56	44301	BEAV_T2	1	4	3	1.4	0.83	-0.57	0.75	0.78	2	2	0	1500	1500	0
7/3/2024 10:59	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 10:59	45802	HEGI_T2	0	4	4	0	0.18	0.18	0.58	0.48	2	2	0	1200	1200	0
7/3/2024 10:59	21206	ECAR_T2	14	29	15	1.45	1.38	-0.07	0.51	0.49	0	0	0	0	0	0
7/3/2024 11:00	45802	HEGI_T2	0	4	4	0	0.18	0.18	0.58	0.48	2	2	0	1200	1200	0
7/3/2024 11:00	48303	ORWI_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
7/3/2024 11:00	21206	ECAR_T2	18	24	6	1.43	1.43	0	0.51	0.49	0	0	0	0	0	0
7/3/2024 11:00	48302	ORWI_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/3/2024 11:00	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 11:01	48302	ORWI_T2	2	2	0	0.3	0.2	-0.1	-0.27	-0.25	0	0	0	0	0	0
7/3/2024 11:02	47001	HUGH_T2	4	4	0	5.88	5.93	0.05	-0.29	-0.27	0	0	0	0	0	0
7/3/2024 11:03	52403	GRPA_T2	5	7	2	0.24	0.43	0.19	0.48	0.49	0	0	0	0	0	0
7/3/2024 11:03	28805	LAKE_T1	1	1	0	0.3	0.5	0.2	-0.12	-0.11	0	0	0	0	0	0
7/3/2024 11:04	53902	HALI_T2	3	3	0	2	1.9	-0.1	0	0	0	0	0	0	0	0
7/3/2024 11:04	53903	HALI_T2	4	3	-1	0.55	0.53	-0.02	0.04	0.07	0	0	0	0	0	0
7/3/2024 11:04	16202	POFA_T1	3	3	0	0.27	0.33	0.06	0	0	0	0	0	0	0	0
7/3/2024 11:04	16204	POFA_T1	4	2	-2	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
7/3/2024 11:04	53901	HALI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/3/2024 11:06	42201	SHEN_T2	1	1	0	0.2	0.3	0.1	0.37	0.38	1	1	0	600	600	0
7/3/2024 11:06	53903	HALI_T2	4	3	-1	0.55	0.53	-0.02	0.02	0.03	0	0	0	0	0	0
7/3/2024 11:06	53902	HALI_T2	3	3	0	2	1.9	-0.1	0	0	0	0	0	0	0	0
7/3/2024 11:06	64101	REFR_T1	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
7/3/2024 11:06	53901	HALI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/3/2024 11:09	60201	ATGL_T2	0	0	0	0	0	0	0.55	0.45	1	1	0	300	300	0
7/3/2024 11:10	25402	LAHA_T2	1	1	0	0.3	0.2	-0.1	-0.16	-0.12	0	0	0	0	0	0
7/3/2024 11:10	60201	ATGL_T2	0	0	0	0	0	0	0.55	0.45	1	1	0	300	300	0
7/3/2024 11:11	64101	REFR_T1	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
7/3/2024 11:14	20601	GRWO_T2	0	3	3	0	0.45	0.45	0.67	0.7	0	0	0	0	0	0
7/3/2024 11:14	20603	GRWO_T2	4	0	-4	0.18	0	-0.18	0	0	0	0	0	0	0	0
7/3/2024 11:15	47001	HUGH_T2	4	4	0	5.93	5.73	-0.2	-0.27	-0.24	0	0	0	0	0	0
7/3/2024 11:16	65001	NEFF_T2	0	0	0	0	0	0	0.22	0.19	1	1	0	1200	1200	0
7/3/2024 11:16	12701	MACU_T1	0	1	1	0	0	0	0.29	0.29	0	0	0	0	0	0
7/3/2024 11:17	22602	KIMB_T1	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
7/3/2024 11:17	22601	KIMB_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
7/3/2024 11:18	12701	MACU_T1	0	1	1	0	0	0	0.29	0.29	0	0	0	0	0	0
7/3/2024 11:18	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 11:18	52403	GRPA_T2	5	9	4	0.48	0.35	-0.13	0.49	0.5	0	0	0	0	0	0
7/3/2024 11:18	58401	MORO_T1	0	0	0	0	0	0	-0.95	-2.12	2	4	2	1200	2400	1200
7/3/2024 11:20	65004	NEFF_T2	0	0	0	0	0	0	-0.67	-0.66	1	1	0	600	600	0
7/3/2024 11:23	44301	BEAV_T2	4	6	2	0.88	0.4	-0.48	0.76	0.47	2	2	0	1500	1500	0
7/3/2024 11:24	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/3/2024 11:24	60803	BUCK_T1	0	0	0	0	0	0	-0.3	-0.29	1	1	0	600	600	0
7/3/2024 11:25	60803	BUCK_T1	0	0	0	0	0	0	-0.3	-0.29	1	1	0	600	600	0
7/3/2024 11:27	60803	BUCK_T1	0	0	0	0	0	0	-0.3	-0.29	1	1	0	600	600	0
7/3/2024 11:28	60803	BUCK_T1	0	0	0	0	0	0	-0.3	-0.29	1	1	0	600	600	0
7/3/2024 11:28	45602	WOOL_T1	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
7/3/2024 11:29	40902	JESH_T1	0	0	0	0	0	0	-0.92	-0.8	3	3	0	1800	1800	0
7/3/2024 11:29	40901	JESH_T1	1	2	1	1.9	2.1	0.2	0	0	0	0	0	0	0	0
7/3/2024 11:29	45602	WOOL_T1	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
7/3/2024 11:30	45602	WOOL_T1	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
7/3/2024 11:30	20601	GRWO_T2	2	19	17	0.55	0.72	0.17	0.7	0.73	0	0	0	0	0	0
7/3/2024 11:31	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 11:31	29402	BELT_T1	40	18	-22	0.5	0.86	0.36	0	0	0	0	0	0	0	0
7/3/2024 11:32	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 11:32	29402	BELT_T1	40	18	-22	0.5	0.86	0.36	0	0	0	0	0	0	0	0
7/3/2024 11:33	26401	INOR_T1	1	2	1	6.8	3.65	-3.15	1.32	1.3	0	0	0	0	0	0
7/3/2024 11:34	29402	BELT_T1	40	18	-22	0.5	0.86	0.36	0	0	0	0	0	0	0	0
7/3/2024 11:34	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 11:35	57401	SPAN_T1	2	1	-1	2.45	0	-2.45	-0.98	-0.91	1	1	0	600	600	0
7/3/2024 11:35	57403	SPAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/3/2024 11:36	67201	TEHI_T1	1	5	4	0.4	0	-0.4	1.5	1.35	1	1	0	600	600	0
7/3/2024 11:36	67203	TEHI_T1	1	2	1	1.1	0.3	-0.8	0	0	0	0	0	0	0	0
7/3/2024 11:40	64204	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/3/2024 11:40	61301	EARL_T1	0	0	0	0	0	0	-1.19	-1.2	2	2	0	1800	1800	0
7/3/2024 11:40	64203	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/3/2024 11:40	43301	WATS_T2	0	0	0	0	0	0	-0.26	-0.25	1	1	0	900	900	0
7/3/2024 11:40	64201	KINZ_T1	0	0	0	0	0	0	-0.3	-0.29	4	4	0	2100	2100	0
7/3/2024 11:42	44801	EDAN_T2	2	2	0	1.1	1.25	0.15	0.83	0.78	0	0	0	0	0	0
7/3/2024 11:42	60201	ATGL_T2	0	0	0	0	0	0	0.94	1.09	2	2	0	600	600	0
7/3/2024 11:43	40101	HUNT_T2	29	49	20	0.38	0.31	-0.07	-0.23	-0.22	0	0	0	0	0	0
7/3/2024 11:45	56801	BENV_T1	0	4	4	0	0.55	0.55	-0.38	-0.36	1	1	0	600	600	0
7/3/2024 11:45	56803	BENV_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 11:46	40101	HUNT_T2	48	61	13	0.4	0.41	0.01	-0.23	-0.22	0	0	0	0	0	0
7/3/2024 11:47	52004	LING_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/3/2024 11:47	56801	BENV_T1	0	4	4	0	0.55	0.55	-0.38	-0.36	1	1	0	600	600	0
7/3/2024 11:47	56803	BENV_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 11:47	52002	LING_T2	0	0	0	0	0	0	0.55	0.6	0	0	0	0	0	0
7/3/2024 11:48	58003	WCAR_T1	1	1	0	0.3	0.2	-0.1	1.11	1.12	0	0	0	0	0	0
7/3/2024 11:48	52002	LING_T2	0	0	0	0	0	0	0.55	0.6	0	0	0	0	0	0
7/3/2024 11:48	56801	BENV_T1	0	4	4	0	0.55	0.55	-0.38	-0.36	1	1	0	600	600	0
7/3/2024 11:48	56803	BENV_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 11:48	58001	WCAR_T1	3	2	-1	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
7/3/2024 11:48	52004	LING_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/3/2024 11:49	52002	LING_T2	0	0	0	0	0	0	0.55	0.6	0	0	0	0	0	0
7/3/2024 11:49	52004	LING_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/3/2024 11:49	58401	MORO_T1	0	0	0	0	0	0	-1.04	-1.02	2	2	0	1200	1200	0
7/3/2024 11:50	52403	GRPA_T2	8	39	31	0.51	0.57	0.06	0.51	0.52	0	0	0	0	0	0
7/3/2024 11:50	52404	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 11:51	67401	WAKE_T2	0	0	0	0	0	0	-0.69	-0.59	0	0	0	0	0	0
7/3/2024 11:52	67402	WAKE_T2	0	0	0	0	0	0	0.89	0.91	1	1	0	600	600	0
7/3/2024 11:56	40601	PIGR_T1	6	49	43	0.43	0.29	-0.14	0	0	0	0	0	0	0	0
7/3/2024 11:56	40603	PIGR_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
7/3/2024 11:56	40602	PIGR_T1	1	0	-1	0.3	0	-0.3	0.07	-0.05	0	0	0	0	0	0
7/3/2024 11:59	24105	EHAZ_T1	4	4	0	5.88	6.08	0.2	0	0	0	0	0	0	0	0
7/3/2024 11:59	24102	EHAZ_T1	1	2	1	0.1	0.5	0.4	0.23	0.3	0	0	0	0	0	0
7/3/2024 11:59	24104	EHAZ_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/3/2024 12:00	56802	BENV_T2	1	0	-1	0.1	0	-0.1	-1.69	-1.65	0	0	0	0	0	0
7/3/2024 12:02	64704	LITI_T1	0	0	0	0	0	0	0.3	0.33	1	1	0	600	600	0
7/3/2024 12:03	56802	BENV_T2	1	0	-1	0.1	0	-0.1	-0.85	-0.83	0	0	0	0	0	0
7/3/2024 12:04	16401	MOPO_T1	2	5	3	0.15	0.34	0.19	0	0	0	0	0	0	0	0
7/3/2024 12:04	16406	MOPO_T1	0	0	0	0	0	0	0.06	0.01	1	1	0	1200	1200	0
7/3/2024 12:04	16402	MOPO_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/3/2024 12:04	56802	BENV_T2	1	0	-1	0.1	0	-0.1	-1.69	-1.65	0	0	0	0	0	0
7/3/2024 12:08	60201	ATGL_T2	0	3	3	0	0.2	0.2	0.52	0.7	1	1	0	300	300	0
7/3/2024 12:08	56802	BENV_T2	1	0	-1	0.1	0	-0.1	-0.83	-0.8	0	0	0	0	0	0
7/3/2024 12:10	60803	BUCK_T1	0	10	10	0	0.31	0.31	0	0	0	0	0	0	0	0
7/3/2024 12:10	60801	BUCK_T1	2	2	0	0.1	0.4	0.3	0.13	0.15	0	0	0	0	0	0
7/3/2024 12:11	60801	BUCK_T1	2	2	0	0.1	0.4	0.3	0.4	0.44	0	0	0	0	0	0
7/3/2024 12:11	60803	BUCK_T1	0	10	10	0	0.31	0.31	0	0	0	0	0	0	0	0
7/3/2024 12:12	60201	ATGL_T2	0	3	3	0	0.2	0.2	0.52	0.7	1	1	0	300	300	0
7/3/2024 12:15	48302	ORWI_T2	2	2	0	0.35	0.2	-0.15	-0.21	-0.21	0	0	0	0	0	0
7/3/2024 12:15	44601	SALE_T2	0	0	0	0	0	0	0.9	0.19	2	1	-1	900	600	-300
7/3/2024 12:16	63601	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/3/2024 12:16	55101	WERT_T1	0	0	0	0	0	0	-1.94	-2.07	4	4	0	3300	3300	0
7/3/2024 12:16	63602	LETO_T1	0	1	1	0	0.1	0.1	-0.67	-0.42	2	2	0	1200	1200	0
7/3/2024 12:17	44601	SALE_T2	0	0	0	0	0	0	0.9	0.19	2	1	-1	900	600	-300
7/3/2024 12:17	55101	WERT_T1	0	0	0	0	0	0	-1.94	-2.07	4	4	0	3300	3300	0
7/3/2024 12:17	13503	MCMI_T2	3	1	-2	0.57	0.7	0.13	0.2	0.22	0	0	0	0	0	0
7/3/2024 12:18	55101	WERT_T1	0	0	0	0	0	0	-1.94	-2.07	4	4	0	3300	3300	0
7/3/2024 12:19	55101	WERT_T1	0	0	0	0	0	0	-1.94	-2.07	4	4	0	3300	3300	0
7/3/2024 12:20	66903	SHIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/3/2024 12:20	65604	QVIL_T2	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
7/3/2024 12:20	66901	SHIL_T2	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
7/3/2024 12:20	66902	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/3/2024 12:20	65601	QVIL_T2	2	4	2	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
7/3/2024 12:22	52403	GRPA_T2	36	43	7	0.69	0.51	-0.18	0	0	0	0	0	0	0	0
7/3/2024 12:22	52401	GRPA_T2	0	2	2	0	0	0	-0.36	-0.35	0	0	0	0	0	0
7/3/2024 12:22	52404	GRPA_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/3/2024 12:22	52402	GRPA_T2	1	0	-1	5.7	0	-5.7	0	0	0	0	0	0	0	0
7/3/2024 12:23	67203	TEHI_T1	1	2	1	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
7/3/2024 12:23	67201	TEHI_T1	2	4	2	0.15	0.7	0.55	1.43	1.56	1	1	0	600	600	0
7/3/2024 12:24	22003	BOHE_T1	88	94	6	0.29	0.29	0	-0.13	-0.13	0	0	0	0	0	0
7/3/2024 12:24	22001	BOHE_T1	4	4	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
7/3/2024 12:26	20403	ASHF_T2	3	3	0	0.63	0.35	-0.28	1.89	2	0	0	0	0	0	0
7/3/2024 12:26	20401	ASHF_T2	7	4	-3	0.96	0.75	-0.21	0	0	0	0	0	0	0	0
7/3/2024 12:26	20402	ASHF_T2	6	0	-6	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/3/2024 12:28	24102	EHAZ_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/3/2024 12:28	24101	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 12:28	24103	EHAZ_T1	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
7/3/2024 12:28	24105	EHAZ_T1	4	4	0	6.1	6.1	0	0	0	0	0	0	0	0	0
7/3/2024 12:28	24104	EHAZ_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/3/2024 12:30	44601	SALE_T2	0	0	0	0	0	0	0.19	0.91	1	2	1	600	900	300
7/3/2024 12:30	40603	PIGR_T1	3	3	0	0.23	0.17	-0.06	0.63	0.65	0	0	0	0	0	0
7/3/2024 12:30	46803	HEPB_T2	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/3/2024 12:30	46801	HEPB_T2	2	3	1	0.85	1.1	0.25	0.79	0.24	0	0	0	0	0	0
7/3/2024 12:30	40601	PIGR_T1	8	8	0	0.6	0.61	0.01	0	0	0	0	0	0	0	0
7/3/2024 12:31	49803	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 12:31	20401	ASHF_T2	4	6	2	0.83	0.75	-0.08	0	0	0	0	0	0	0	0
7/3/2024 12:31	40101	HUNT_T2	96	81	-15	0.44	0.39	-0.05	-0.19	-0.18	0	0	0	0	0	0
7/3/2024 12:31	20403	ASHF_T2	2	3	1	0.8	0.27	-0.53	1.89	2	0	0	0	0	0	0
7/3/2024 12:31	49804	UNIV_T1	0	0	0	0	0	0	0.65	0.67	0	0	0	0	0	0
7/3/2024 12:33	13503	MCMI_T2	1	3	2	0.7	0.63	-0.07	0.22	0.23	0	0	0	0	0	0
7/3/2024 12:33	46801	HEPB_T2	2	3	1	0.85	1.1	0.25	0	0	0	0	0	0	0	0
7/3/2024 12:33	46803	HEPB_T2	1	2	1	0.8	0.6	-0.2	0.74	0.71	0	0	0	0	0	0
7/3/2024 12:35	65603	QVIL_T2	0	0	0	0	0	0	0.72	1.01	0	0	0	0	0	0
7/3/2024 12:35	60301	TWVA_T2	0	0	0	0	0	0	-1.24	-1.23	2	2	0	1800	1800	0
7/3/2024 12:35	65601	QVIL_T2	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
7/3/2024 12:38	65901	SAKR_T2	1	1	0	7.2	7	-0.2	-0.5	-0.52	2	2	0	1500	1500	0
7/3/2024 12:38	65601	QVIL_T2	3	0	-3	0.33	0	-0.33	-0.1	-0.15	1	1	0	900	900	0
7/3/2024 12:40	15603	NSTR_T2	1	1	0	0.3	0.5	0.2	-0.42	-0.42	0	0	0	0	0	0
7/3/2024 12:40	15601	NSTR_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/3/2024 12:43	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 12:43	14801	TREI_T2	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
7/3/2024 12:43	24702	FLND_T2	1	2	1	0.2	0.35	0.15	1.27	1.18	1	1	0	1200	1200	0
7/3/2024 12:45	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 12:45	20601	GRWO_T2	17	12	-5	0.58	0.54	-0.04	0.59	0.53	0	0	0	0	0	0
7/3/2024 12:45	44801	EDAN_T2	2	2	0	1.1	0.55	-0.55	1.03	0.98	0	0	0	0	0	0
7/3/2024 12:45	29402	BELT_T1	3	2	-1	3.17	4.6	1.43	0	0	0	0	0	0	0	0
7/3/2024 12:46	40101	HUNT_T2	81	20	-61	0.44	0.34	-0.1	-0.18	-0.17	0	0	0	0	0	0
7/3/2024 12:46	56802	BENV_T2	0	0	0	0	0	0	-0.78	-0.76	0	0	0	0	0	0
7/3/2024 12:51	58001	WCAR_T1	2	4	2	0.15	0.23	0.08	0.31	0.33	0	0	0	0	0	0
7/3/2024 12:51	58003	WCAR_T1	3	3	0	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
7/3/2024 12:52	65803	RTWN_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
7/3/2024 12:52	67303	WYOM_T2	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
7/3/2024 12:52	65802	RTWN_T2	1	1	0	0.5	0.5	0	0.96	0.88	0	0	0	0	0	0
7/3/2024 12:55	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 12:57	24104	EHAZ_T1	1	0	-1	0.3	0	-0.3	-0.68	-0.68	1	1	0	1200	1200	0
7/3/2024 12:57	64201	KINZ_T1	0	0	0	0	0	0	-0.27	-0.14	4	4	0	2100	2100	0
7/3/2024 12:57	24102	EHAZ_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
7/3/2024 12:57	24105	EHAZ_T1	4	4	0	6.1	6.23	0.13	0	0	0	0	0	0	0	0
7/3/2024 12:57	44801	EDAN_T2	2	2	0	1.1	0.55	-0.55	0.98	0.98	0	0	0	0	0	0
7/3/2024 12:57	64204	KINZ_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
7/3/2024 12:57	24101	EHAZ_T1	2	2	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/3/2024 12:57	64203	KINZ_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
7/3/2024 12:58	11102	EGYP_T1	2	5	3	1.05	1.6	0.55	0	0	0	0	0	0	0	0
7/3/2024 12:58	11104	EGYP_T1	8	8	0	1.49	1.92	0.43	1.21	1.22	0	0	0	0	0	0
7/3/2024 12:58	67303	WYOM_T2	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
7/3/2024 12:58	11101	EGYP_T1	1	1	0	1.3	1.7	0.4	0	0	0	0	0	0	0	0
7/3/2024 12:59	44801	EDAN_T2	2	2	0	1.1	0.55	-0.55	0.98	0.98	0	0	0	0	0	0
7/3/2024 12:59	46206	DANV_T2	30	22	-8	0.38	0.65	0.27	0	0	0	0	0	0	0	0
7/3/2024 12:59	46203	DANV_T2	0	0	0	0	0	0	-2.91	-2.88	0	0	0	0	0	0
7/3/2024 13:01	11102	EGYP_T1	1	5	4	1.6	0.8	-0.8	0	0	0	0	0	0	0	0
7/3/2024 13:01	11101	EGYP_T1	1	1	0	2	1.5	-0.5	0	0	0	0	0	0	0	0
7/3/2024 13:01	11104	EGYP_T1	8	6	-2	1.61	1.85	0.24	1.21	1.22	0	0	0	0	0	0
7/3/2024 13:02	46206	DANV_T2	13	43	30	0.59	0.49	-0.1	0	0	0	0	0	0	0	0
7/3/2024 13:02	44601	SALE_T2	0	0	0	0	0	0	0.86	0.24	2	1	-1	900	600	-300
7/3/2024 13:02	56802	BENV_T2	0	0	0	0	0	0	-0.76	-0.74	0	0	0	0	0	0
7/3/2024 13:02	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 13:02	46203	DANV_T2	0	0	0	0	0	0	-1.45	-1.44	0	0	0	0	0	0
7/3/2024 13:03	53902	HALI_T2	3	2	-1	1.53	2	0.47	0	0	0	0	0	0	0	0
7/3/2024 13:03	53901	HALI_T2	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
7/3/2024 13:03	53903	HALI_T2	3	2	-1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
7/3/2024 13:03	46206	DANV_T2	13	43	30	0.59	0.49	-0.1	0	0	0	0	0	0	0	0
7/3/2024 13:03	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 13:03	46203	DANV_T2	0	0	0	0	0	0	-1.45	-1.44	0	0	0	0	0	0
7/3/2024 13:04	13503	MCMI_T2	3	239	236	0.63	0.73	0.1	0.25	-0.68	0	0	0	0	0	0
7/3/2024 13:05	44801	EDAN_T2	2	2	0	0.7	0.6	-0.1	0.98	0.98	0	0	0	0	0	0
7/3/2024 13:07	43304	WATS_T2	0	1	1	0	0	0	-0.02	0.04	0	0	0	0	0	0
7/3/2024 13:11	43304	WATS_T2	0	1	1	0	0	0	-0.01	0.02	0	0	0	0	0	0
7/3/2024 13:12	44601	SALE_T2	0	0	0	0	0	0	0.24	0.16	1	1	0	600	600	0
7/3/2024 13:13	22003	BOHE_T1	24	5	-19	0.32	1.18	0.86	0	0	0	0	0	0	0	0
7/3/2024 13:13	22001	BOHE_T1	2	1	-1	0.3	0.2	-0.1	0.44	0.44	0	0	0	0	0	0
7/3/2024 13:13	14801	TREI_T2	1	1	0	1.3	0.6	-0.7	0	0	0	0	0	0	0	0
7/3/2024 13:16	11104	EGYP_T1	6	7	1	1.93	1.1	-0.83	1.22	1.24	0	0	0	0	0	0
7/3/2024 13:16	11102	EGYP_T1	5	3	-2	0.74	0.8	0.06	0	0	0	0	0	0	0	0
7/3/2024 13:16	11101	EGYP_T1	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
7/3/2024 13:17	24702	FLND_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/3/2024 13:17	24102	EHAZ_T1	1	1	0	1	1.4	0.4	0.31	0.3	0	0	0	0	0	0
7/3/2024 13:17	24701	FLND_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
7/3/2024 13:17	24105	EHAZ_T1	4	4	0	6.25	6.05	-0.2	0	0	0	0	0	0	0	0
7/3/2024 13:17	24101	EHAZ_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/3/2024 13:18	53802	MBRG_T2	0	0	0	0	0	0	1.05	0.82	0	0	0	0	0	0
7/3/2024 13:19	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 13:19	52002	LING_T2	1	9	8	0.1	0.15	0.05	0.67	0.7	0	0	0	0	0	0
7/3/2024 13:19	66505	SMAN_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
7/3/2024 13:19	67001	STHI_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
7/3/2024 13:19	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 13:19	66504	SMAN_T2	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
7/3/2024 13:25	14802	TREI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/3/2024 13:25	14801	TREI_T2	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
7/3/2024 13:26	10705	CATA_T2	0	1	1	0	1	1	-2.6	-2.59	2	2	0	1800	1800	0
7/3/2024 13:26	16302	ALPA_T2	0	2	2	0	0.25	0.25	0.25	0.39	0	0	0	0	0	0
7/3/2024 13:27	10705	CATA_T2	0	1	1	0	1	1	-1.3	-1.29	1	1	0	900	900	0
7/3/2024 13:27	16302	ALPA_T2	0	2	2	0	0.25	0.25	0.12	0.19	0	0	0	0	0	0
7/3/2024 13:28	16302	ALPA_T2	0	2	2	0	0.25	0.25	0.12	0.19	0	0	0	0	0	0
7/3/2024 13:29	14801	TREI_T2	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
7/3/2024 13:29	14802	TREI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/3/2024 13:30	44801	EDAN_T2	2	2	0	0.8	0.75	-0.05	0.97	0.97	0	0	0	0	0	0
7/3/2024 13:32	56802	BENV_T2	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
7/3/2024 13:33	53802	MBRG_T2	0	0	0	0	0	0	0.82	1.04	0	0	0	0	0	0
7/3/2024 13:34	52002	LING_T2	2	15	13	0.15	0.32	0.17	0.7	0.74	0	0	0	0	0	0
7/3/2024 13:37	14802	TREI_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/3/2024 13:37	14801	TREI_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/3/2024 13:39	14801	TREI_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/3/2024 13:39	14802	TREI_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/3/2024 13:41	61703	ELIZ_T1	0	0	0	0	0	0	-2.08	-2.08	2	2	0	2100	2100	0
7/3/2024 13:41	61701	ELIZ_T1	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
7/3/2024 13:43	11804	FRAN_T1	21	54	33	0.29	0.57	0.28	1.77	1.74	0	0	0	0	0	0
7/3/2024 13:44	61701	ELIZ_T1	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
7/3/2024 13:44	61703	ELIZ_T1	0	0	0	0	0	0	-4.16	-4.15	4	4	0	4200	4200	0
7/3/2024 13:45	61703	ELIZ_T1	0	0	0	0	0	0	-4.16	-4.15	4	4	0	4200	4200	0
7/3/2024 13:45	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 13:45	61701	ELIZ_T1	2	2	0	1.3	1.25	-0.05	0	0	0	0	0	0	0	0
7/3/2024 13:45	20401	ASHF_T2	5	6	1	1.3	0.98	-0.32	0	0	0	0	0	0	0	0
7/3/2024 13:45	20403	ASHF_T2	9	9	0	0.43	0.32	-0.11	1.98	1.9	0	0	0	0	0	0
7/3/2024 13:46	46206	DANV_T2	22	38	16	0.59	0.51	-0.08	0	0	0	0	0	0	0	0
7/3/2024 13:46	46203	DANV_T2	0	0	0	0	0	0	-1.41	-1.37	0	0	0	0	0	0
7/3/2024 13:46	53802	MBRG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 13:46	53803	MBRG_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
7/3/2024 13:46	47802	MOCA_T2	1	1	0	0.7	0.9	0.2	-0.56	-0.57	0	0	0	0	0	0
7/3/2024 13:48	29401	BELT_T1	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
7/3/2024 13:48	29402	BELT_T1	1	282	281	0.1	0.97	0.87	0	0	0	0	0	0	0	0
7/3/2024 13:54	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/3/2024 13:54	43304	WATS_T2	2	2	0	0.45	0.4	-0.05	0.12	0.1	0	0	0	0	0	0
7/3/2024 13:56	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/3/2024 13:56	43304	WATS_T2	2	2	0	0.45	0.4	-0.05	0.12	0.1	0	0	0	0	0	0
7/3/2024 13:57	43304	WATS_T2	2	2	0	0.45	0.4	-0.05	0.12	0.1	0	0	0	0	0	0
7/3/2024 13:57	16302	ALPA_T2	1	2	1	0.2	0.4	0.2	0.17	0.28	0	0	0	0	0	0
7/3/2024 13:57	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/3/2024 13:58	24902	WHHA_T1	14	20	6	0.42	0.5	0.08	1.89	1.91	0	0	0	0	0	0
7/3/2024 13:58	16302	ALPA_T2	1	2	1	0.2	0.4	0.2	0.17	0.28	0	0	0	0	0	0
7/3/2024 13:58	46101	MACI_T2	0	0	0	0	0	0	0.21	0.11	1	1	0	1200	1200	0
7/3/2024 13:58	47101	MARL_T1	3	16	13	0.13	0.38	0.25	-0.24	-0.28	0	0	0	0	0	0
7/3/2024 14:00	55101	WERT_T1	5	5	0	0.32	0.4	0.08	-1.67	-1.75	4	4	0	3300	3300	0
7/3/2024 14:01	20402	ASHF_T2	6	0	-6	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/3/2024 14:01	20401	ASHF_T2	6	7	1	1.38	0.93	-0.45	0	0	0	0	0	0	0	0
7/3/2024 14:01	20403	ASHF_T2	9	9	0	0.39	0.28	-0.11	1.9	1.82	0	0	0	0	0	0
7/3/2024 14:02	54701	NEBL_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
7/3/2024 14:04	64904	MILL_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
7/3/2024 14:08	67502	WEWI_T2	0	1	1	0	0.6	0.6	-1.53	-1.45	3	3	0	2700	2700	0
7/3/2024 14:08	44301	BEAV_T2	3	1	-2	0.93	0.3	-0.63	0.74	0.66	2	2	0	1500	1500	0
7/3/2024 14:08	67503	WEWI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 14:09	67402	WAKE_T2	0	0	0	0	0	0	1	1	1	1	0	600	600	0
7/3/2024 14:09	46001	BERW_T1	0	0	0	0	0	0	0.43	0.31	0	0	0	0	0	0
7/3/2024 14:09	46005	BERW_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
7/3/2024 14:09	67502	WEWI_T2	0	1	1	0	0.6	0.6	-0.51	-0.48	1	1	0	900	900	0
7/3/2024 14:09	67503	WEWI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 14:10	67502	WEWI_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
7/3/2024 14:10	67503	WEWI_T2	0	1	1	0	0	0	0.62	0.63	0	0	0	0	0	0
7/3/2024 14:11	64203	KINZ_T1	1	1	0	1.2	0.6	-0.6	0	0	0	0	0	0	0	0
7/3/2024 14:11	64201	KINZ_T1	0	0	0	0	0	0	-0.2	-0.05	4	4	0	2100	2100	0
7/3/2024 14:11	64204	KINZ_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
7/3/2024 14:15	61701	ELIZ_T1	2	2	0	1.15	1.35	0.2	0	0	0	0	0	0	0	0
7/3/2024 14:15	57404	SPAN_T2	2	2	0	0.15	0	-0.15	0.09	0.11	1	1	0	1200	1200	0
7/3/2024 14:15	61703	ELIZ_T1	0	0	0	0	0	0	-2.07	-2.07	2	2	0	2100	2100	0
7/3/2024 14:16	56803	BENV_T1	5	5	0	1.16	0.43	-0.73	-0.13	-0.12	1	1	0	600	600	0
7/3/2024 14:16	56801	BENV_T1	2	6	4	0.3	0.57	0.27	0	0	0	0	0	0	0	0
7/3/2024 14:18	59101	WALK_T2	2	1	-1	0.7	0	-0.7	1.32	0.99	3	4	1	1800	2400	600
7/3/2024 14:18	64904	MILL_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
7/3/2024 14:20	67801	WLAN_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/3/2024 14:20	67804	WLAN_T1	1	3	2	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
7/3/2024 14:20	67805	WLAN_T1	0	0	0	0	0	0	-0.56	-0.49	0	0	0	0	0	0
7/3/2024 14:21	59101	WALK_T2	2	1	-1	0.7	0	-0.7	1.32	0.99	3	4	1	1800	2400	600
7/3/2024 14:22	64101	REFR_T1	3	4	1	0.3	1.17	0.87	0.51	0.52	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/3/2024 14:23	64101	REFR_T1	3	4	1	0.3	1.17	0.87	0.51	0.52	0	0	0	0	0	0
7/3/2024 14:24	64101	REFR_T1	3	4	1	0.3	1.17	0.87	1.53	1.57	0	0	0	0	0	0
7/3/2024 14:25	64101	REFR_T1	3	4	1	0.3	1.17	0.87	0.51	0.52	0	0	0	0	0	0
7/3/2024 14:25	43301	WATS_T2	1	1	0	0.2	0.3	0.1	-0.11	-0.09	1	1	0	900	900	0
7/3/2024 14:25	43304	WATS_T2	2	2	0	0.95	0	-0.95	0	0	0	0	0	0	0	0
7/3/2024 14:26	64101	REFR_T1	3	4	1	0.3	1.17	0.87	1.02	1.04	0	0	0	0	0	0
7/3/2024 14:30	56802	BENV_T2	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
7/3/2024 14:31	56802	BENV_T2	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
7/3/2024 14:31	40101	HUNT_T2	116	13	-103	0.56	0.33	-0.23	-0.09	-0.35	0	0	0	0	0	0
7/3/2024 14:38	43304	WATS_T2	2	1	-1	0.35	0	-0.35	0.04	-0.01	0	0	0	0	0	0
7/3/2024 14:38	43301	WATS_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/3/2024 14:39	43301	WATS_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/3/2024 14:39	43304	WATS_T2	2	1	-1	0.35	0	-0.35	0.04	-0.01	0	0	0	0	0	0
7/3/2024 14:47	55103	WERT_T1	1	1	0	0.1	1.1	1	0	0	0	0	0	0	0	0
7/3/2024 14:47	16402	MOPO_T1	1	0	-1	0.2	0	-0.2	0.44	0.43	0	0	0	0	0	0
7/3/2024 14:47	55101	WERT_T1	5	15	10	0.14	0	-0.14	-1.73	-1.83	4	4	0	3300	3300	0
7/3/2024 14:49	16402	MOPO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/3/2024 14:49	55101	WERT_T1	5	15	10	0.14	0	-0.14	-1.73	-1.83	4	4	0	3300	3300	0
7/3/2024 14:49	53903	HALI_T2	2	2	0	0.75	0.55	-0.2	0.12	0.11	0	0	0	0	0	0
7/3/2024 14:49	55103	WERT_T1	1	1	0	0.1	1.1	1	0	0	0	0	0	0	0	0
7/3/2024 14:49	16401	MOPO_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
7/3/2024 14:49	53902	HALI_T2	3	2	-1	1.73	2.4	0.67	0	0	0	0	0	0	0	0
7/3/2024 14:50	42201	SHEN_T2	2	2	0	0.25	0.7	0.45	0.5	0.5	1	1	0	600	600	0
7/3/2024 14:51	16402	MOPO_T1	1	0	-1	0.2	0	-0.2	0.44	0.43	0	0	0	0	0	0
7/3/2024 14:51	46101	MACI_T2	0	0	0	0	0	0	0.08	0.07	1	1	0	1200	1200	0
7/3/2024 14:52	27603	PIRI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 14:52	27605	PIRI_T2	30	37	7	0.43	0.46	0.03	1.3	1.4	0	0	0	0	0	0
7/3/2024 14:54	55103	WERT_T1	1	1	0	0.1	1.1	1	0	0	0	0	0	0	0	0
7/3/2024 14:54	42201	SHEN_T2	2	2	0	0.25	0.7	0.45	1.01	1.01	2	2	0	1200	1200	0
7/3/2024 14:54	55101	WERT_T1	5	15	10	0.14	0	-0.14	-1.83	-1.6	4	4	0	3300	3300	0
7/3/2024 15:00	20603	GRWO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/3/2024 15:00	20601	GRWO_T2	2	0	-2	0.15	0	-0.15	0.41	0.4	0	0	0	0	0	0
7/3/2024 15:04	52004	LING_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
7/3/2024 15:08	46001	BERW_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
7/3/2024 15:09	46001	BERW_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
7/3/2024 15:10	46001	BERW_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
7/3/2024 15:12	14403	SSLA_T1	0	2	2	0	0	0	1.54	1.53	0	0	0	0	0	0
7/3/2024 15:12	46001	BERW_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
7/3/2024 15:12	14402	SSLA_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/3/2024 15:12	14404	SSLA_T1	1	1	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
7/3/2024 15:13	44601	SALE_T2	1	0	-1	0.5	0	-0.5	0.37	0.14	1	1	0	600	600	0
7/3/2024 15:13	67503	WEWI_T2	0	1	1	0	0	0	0.64	0.65	0	0	0	0	0	0
7/3/2024 15:14	12701	MACU_T1	0	0	0	0	0	0	-0.71	-0.71	1	1	0	1200	1200	0
7/3/2024 15:14	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 15:14	46206	DANV_T2	3	45	42	1.17	0.5	-0.67	2.17	2.25	2	2	0	2100	2100	0
7/3/2024 15:15	12701	MACU_T1	0	0	0	0	0	0	-0.71	-0.71	1	1	0	1200	1200	0
7/3/2024 15:16	22903	HARW_T1	7	22	15	0.33	0	-0.33	0	0	0	0	0	0	0	0
7/3/2024 15:16	22901	HARW_T1	4	0	-4	0.1	0	-0.1	-0.67	-0.47	2	2	0	2400	2400	0
7/3/2024 15:16	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	-0.41	-0.51	2	2	0	1200	1200	0
7/3/2024 15:16	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 15:17	26401	INOR_T1	1	5	4	5.6	5.6	0	1.47	1.36	0	0	0	0	0	0
7/3/2024 15:17	57304	MOAL_T2	0	6	6	0	0.2	0.2	0.07	0.06	0	0	0	0	0	0
7/3/2024 15:17	57301	MOAL_T2	1	1	0	2.5	2.6	0.1	0	0	0	0	0	0	0	0
7/3/2024 15:17	26402	INOR_T1	1	2	1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
7/3/2024 15:17	57303	MOAL_T2	1	1	0	8.2	8	-0.2	0	0	0	0	0	0	0	0
7/3/2024 15:18	46204	DANV_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/3/2024 15:18	46206	DANV_T2	33	45	12	0.52	0.48	-0.04	4.35	4.51	4	4	0	4200	4200	0
7/3/2024 15:19	13503	MCMI_T2	166	90	-76	0.32	0.25	-0.07	-0.65	-0.65	0	0	0	0	0	0
7/3/2024 15:22	67601	WARW_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
7/3/2024 15:22	43202	MVIL_T2	2	0	-2	0.55	0	-0.55	-0.37	-0.38	0	0	0	0	0	0
7/3/2024 15:23	46001	BERW_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
7/3/2024 15:26	61701	ELIZ_T1	1	2	1	1.7	1.3	-0.4	1.36	1.34	0	0	0	0	0	0
7/3/2024 15:28	52403	GRPA_T2	20	58	38	0.65	0.64	-0.01	0.17	0.21	0	0	0	0	0	0
7/3/2024 15:28	52401	GRPA_T2	3	1	-2	0.33	0	-0.33	0	0	0	0	0	0	0	0
7/3/2024 15:28	52402	GRPA_T2	2	3	1	1.05	1	-0.05	0	0	0	0	0	0	0	0
7/3/2024 15:30	61701	ELIZ_T1	1	2	1	1.8	1.3	-0.5	2.72	2.68	0	0	0	0	0	0
7/3/2024 15:35	67804	WLAN_T1	9	10	1	0.57	0.82	0.25	0	0	0	0	0	0	0	0
7/3/2024 15:35	52403	GRPA_T2	52	53	1	0.65	0.6	-0.05	0.17	0.21	0	0	0	0	0	0
7/3/2024 15:35	67801	WLAN_T1	1	2	1	0.8	0	-0.8	0.4	0.45	0	0	0	0	0	0
7/3/2024 15:35	52402	GRPA_T2	1	6	5	1.2	1	-0.2	0	0	0	0	0	0	0	0
7/3/2024 15:35	16202	POFA_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/3/2024 15:35	52401	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/3/2024 15:37	16202	POFA_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/3/2024 15:42	42701	AUGU_T1	13	46	33	0.25	0.44	0.19	0	0	2	2	0	1800	1800	0
7/3/2024 15:45	57401	SPAN_T1	10	188	178	0.75	0.36	-0.39	-0.15	-0.16	1	1	0	600	600	0
7/3/2024 15:45	24702	FLND_T2	3	4	1	0.5	0.37	-0.13	0.27	0.23	1	1	0	1200	1200	0
7/3/2024 15:45	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 15:46	11102	EGYP_T1	5	8	3	0.86	0.9	0.04	0	0	0	0	0	0	0	0
7/3/2024 15:46	11101	EGYP_T1	1	1	0	1.7	1.3	-0.4	0	0	0	0	0	0	0	0
7/3/2024 15:46	11104	EGYP_T1	11	15	4	1.23	1.32	0.09	1.05	1.05	0	0	0	0	0	0
7/3/2024 15:47	52002	LING_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
7/3/2024 15:49	58003	WCAR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/3/2024 15:49	58001	WCAR_T1	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
7/3/2024 15:56	61701	ELIZ_T1	2	2	0	1.3	1.1	-0.2	1.3	1.31	0	0	0	0	0	0
7/3/2024 15:57	12304	LANA_T2	25	38	13	0.54	0.52	-0.02	0	0	0	0	0	0	0	0
7/3/2024 15:57	61701	ELIZ_T1	2	2	0	1.3	1.1	-0.2	1.3	1.31	0	0	0	0	0	0
7/3/2024 15:57	12301	LANA_T2	1	0	-1	0.3	0	-0.3	-0.9	-0.9	0	0	0	0	0	0
7/3/2024 15:58	61701	ELIZ_T1	2	2	0	1.3	1.1	-0.2	1.3	1.31	0	0	0	0	0	0
7/3/2024 15:58	45802	HEGI_T2	21	46	25	0.6	1.05	0.45	0.27	0.29	2	2	0	1200	1200	0
7/3/2024 16:00	45802	HEGI_T2	43	46	3	0.83	1.06	0.23	0.27	0.29	2	2	0	1200	1200	0
7/3/2024 16:01	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 16:01	41602	CLEV_T1	137	111	-26	1.67	1.1	-0.57	0	0	0	0	0	0	0	0
7/3/2024 16:02	51401	LYKE_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
7/3/2024 16:02	45702	LIND_T2	1	1	0	0.4	0.1	-0.3	0.07	0.07	0	0	0	0	0	0
7/3/2024 16:03	52002	LING_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 16:03	52004	LING_T2	0	0	0	0	0	0	0.24	0.18	0	0	0	0	0	0
7/3/2024 16:05	51401	LYKE_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
7/3/2024 16:15	61301	EARL_T1	0	0	0	0	0	0	-1.22	-1.22	2	2	0	1800	1800	0
7/3/2024 16:16	42903	MIDD_T2	2	2	0	0.8	1.15	0.35	0	0	0	0	0	0	0	0
7/3/2024 16:16	42902	MIDD_T2	8	9	1	1.04	0.72	-0.32	-0.65	-0.51	1	1	0	600	600	0
7/3/2024 16:17	42903	MIDD_T2	2	2	0	0.8	1.15	0.35	0	0	0	0	0	0	0	0
7/3/2024 16:17	42902	MIDD_T2	8	9	1	1.04	0.72	-0.32	-1.3	-1.02	2	2	0	1200	1200	0
7/3/2024 16:19	42902	MIDD_T2	8	9	1	1.04	0.72	-0.32	-0.65	-0.51	1	1	0	600	600	0
7/3/2024 16:19	42903	MIDD_T2	2	2	0	0.8	1.15	0.35	0	0	0	0	0	0	0	0
7/3/2024 16:20	42903	MIDD_T2	2	2	0	0.8	1.15	0.35	0	0	0	0	0	0	0	0
7/3/2024 16:20	42902	MIDD_T2	8	9	1	1.04	0.72	-0.32	-0.65	-0.51	1	1	0	600	600	0
7/3/2024 16:21	42902	MIDD_T2	8	9	1	1.04	0.72	-0.32	-0.51	-0.6	1	1	0	600	600	0
7/3/2024 16:21	42903	MIDD_T2	2	2	0	0.8	1.15	0.35	0	0	0	0	0	0	0	0
7/3/2024 16:21	63401	HONY_T1	0	0	0	0	0	0	0.7	0.62	1	1	0	600	600	0
7/3/2024 16:23	61102	BERK_T5	0	0	0	0	0	0	1.01	0.91	1	1	0	300	300	0
7/3/2024 16:24	61102	BERK_T5	0	0	0	0	0	0	4.06	3.65	4	4	0	1200	1200	0
7/3/2024 16:25	43301	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/3/2024 16:25	44302	BEAV_T2	4	12	8	0.78	0.7	-0.08	-0.16	0.64	2	1	-1	1500	600	-900
7/3/2024 16:25	43304	WATS_T2	0	4	4	0	0.5	0.5	-0.47	-0.51	1	1	0	600	600	0
7/3/2024 16:25	61102	BERK_T5	0	0	0	0	0	0	1.01	0.91	1	1	0	300	300	0
7/3/2024 16:26	41602	CLEV_T1	108	132	24	1.25	0.75	-0.5	0	0	1	1	0	600	600	0
7/3/2024 16:26	12001	HATF_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/3/2024 16:26	12002	HATF_T1	0	1	1	0	0	0	-0.47	-0.61	1	1	0	1200	1200	0
7/3/2024 16:28	61102	BERK_T5	0	0	0	0	0	0	1.01	0.91	1	1	0	300	300	0
7/3/2024 16:30	56803	BENV_T1	7	5	-2	0.83	0.37	-0.46	0	0	0	0	0	0	0	0
7/3/2024 16:30	56801	BENV_T1	0	2	2	0	0.1	0.1	-0.07	-0.05	1	1	0	600	600	0
7/3/2024 16:31	56801	BENV_T1	0	2	2	0	0.1	0.1	-0.07	-0.05	1	1	0	600	600	0
7/3/2024 16:31	56803	BENV_T1	7	5	-2	0.83	0.37	-0.46	0	0	0	0	0	0	0	0
7/3/2024 16:32	56801	BENV_T1	0	2	2	0	0.1	0.1	-0.2	-0.16	3	3	0	1800	1800	0
7/3/2024 16:32	56803	BENV_T1	7	5	-2	0.83	0.37	-0.46	0	0	0	0	0	0	0	0
7/3/2024 16:34	56801	BENV_T1	0	2	2	0	0.1	0.1	-0.14	-0.1	2	2	0	1200	1200	0
7/3/2024 16:34	56803	BENV_T1	7	5	-2	0.83	0.37	-0.46	0	0	0	0	0	0	0	0
7/3/2024 16:35	56801	BENV_T1	0	2	2	0	0.1	0.1	-0.07	-0.05	1	1	0	600	600	0
7/3/2024 16:35	56803	BENV_T1	7	5	-2	0.83	0.37	-0.46	0	0	0	0	0	0	0	0
7/3/2024 16:41	43301	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/3/2024 16:41	43304	WATS_T2	4	4	0	0.45	0.5	0.05	-0.51	-0.43	1	1	0	600	600	0
7/3/2024 16:47	56801	BENV_T1	0	2	2	0	0.25	0.25	-0.05	-0.04	1	1	0	600	600	0
7/3/2024 16:47	21206	ECAR_T2	4	16	12	2.13	1.98	-0.15	0.31	0.36	0	0	0	0	0	0
7/3/2024 16:47	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 16:47	56803	BENV_T1	4	5	1	0.5	1.07	0.57	0	0	0	0	0	0	0	0
7/3/2024 16:48	56803	BENV_T1	4	5	1	0.5	1.07	0.57	0	0	0	0	0	0	0	0
7/3/2024 16:48	56801	BENV_T1	0	2	2	0	0.25	0.25	-0.05	-0.04	1	1	0	600	600	0
7/3/2024 16:49	40901	JESH_T1	1	3	2	2.3	2.2	-0.1	0	0	0	0	0	0	0	0
7/3/2024 16:49	40902	JESH_T1	0	0	0	0	0	0	-1.79	-1.84	3	3	0	1800	1800	0
7/3/2024 16:49	51003	NHAR_T1	0	0	0	0	0	0	-1.97	-2.04	1	1	0	1200	1200	0
7/3/2024 16:49	51004	NHAR_T1	1	1	0	7.1	6.8	-0.3	0	0	0	0	0	0	0	0
7/3/2024 16:49	51002	NHAR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 16:52	56501	ROCK_T2	3	17	14	0.17	0.18	0.01	-2.07	-2.06	0	0	0	0	0	0
7/3/2024 16:52	56504	ROCK_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 17:03	63305	GREE_T1	0	7	7	0	0.17	0.17	0	0	0	0	0	0	0	0
7/3/2024 17:03	63304	GREE_T1	0	0	0	0	0	0	-1.97	-2.01	0	0	0	0	0	0
7/3/2024 17:04	63305	GREE_T1	0	7	7	0	0.17	0.17	0	0	0	0	0	0	0	0
7/3/2024 17:04	63304	GREE_T1	0	0	0	0	0	0	-1.97	-2.01	0	0	0	0	0	0
7/3/2024 17:06	43402	BENT_T1	0	0	0	0	0	0	-0.7	-0.74	1	1	0	900	900	0
7/3/2024 17:07	21206	ECAR_T2	4	16	12	1.98	1.46	-0.52	0.41	0.46	0	0	0	0	0	0
7/3/2024 17:07	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 17:07	43402	BENT_T1	0	0	0	0	0	0	-0.7	-0.74	1	1	0	900	900	0
7/3/2024 17:07	67602	WARW_T2	0	0	0	0	0	0	0.29	0.28	2	2	0	1500	1500	0
7/3/2024 17:10	67602	WARW_T2	0	0	0	0	0	0	0.29	0.28	2	2	0	1500	1500	0
7/3/2024 17:14	63401	HONY_T1	0	0	0	0	0	0	0.55	0.51	1	1	0	600	600	0
7/3/2024 17:30	61702	ELIZ_T2	0	0	0	0	0	0	-1.24	-1.26	2	2	0	1500	1500	0
7/3/2024 17:32	67605	WARW_T1	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
7/3/2024 17:33	67804	WLAN_T1	10	10	0	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
7/3/2024 17:33	67801	WLAN_T1	11	6	-5	0.55	0.4	-0.15	0.53	0.4	0	0	0	0	0	0
7/3/2024 17:43	44801	EDAN_T2	2	3	1	1.35	0.83	-0.52	1	1	0	0	0	0	0	0
7/3/2024 17:43	62102	ELAN_T1	0	0	0	0	0	0	1.05	0.9	0	0	0	0	0	0
7/3/2024 17:47	56501	ROCK_T2	6	31	25	0.22	0.2	-0.02	-6.21	-6.22	0	0	0	0	0	0
7/3/2024 17:48	56501	ROCK_T2	6	31	25	0.22	0.2	-0.02	-2.07	-2.07	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/3/2024 17:50	56501	ROCK_T2	6	31	25	0.22	0.2	-0.02	-2.07	-2.07	0	0	0	0	0	0
7/3/2024 17:52	27603	PIRI_T2	1	1	0	1.1	0.2	-0.9	0	0	0	0	0	0	0	0
7/3/2024 17:52	27605	PIRI_T2	51	32	-19	0.57	0.6	0.03	1.15	1.01	0	0	0	0	0	0
7/3/2024 18:01	11507	FREE_T2	60	53	-7	0.62	0.42	-0.2	1.37	1.4	1	1	0	600	600	0
7/3/2024 18:10	43304	WATS_T2	6	8	2	0.6	0.5	-0.1	-0.47	-0.44	1	1	0	600	600	0
7/3/2024 18:16	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 18:16	29402	BELT_T1	115	121	6	0.98	0.96	-0.02	0	0	0	0	0	0	0	0
7/3/2024 18:26	13905	SEID_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/3/2024 18:26	13903	SEID_T1	8	10	2	1.19	1.33	0.14	0	0	0	0	0	0	0	0
7/3/2024 18:26	13904	SEID_T1	3	2	-1	0.5	0	-0.5	0.64	0.64	0	0	0	0	0	0
7/3/2024 18:29	52402	GRPA_T2	20	8	-12	0.74	0.9	0.16	0	0	0	0	0	0	0	0
7/3/2024 18:29	52401	GRPA_T2	74	61	-13	0.88	0.56	-0.32	0	0	0	0	0	0	0	0
7/3/2024 18:29	13905	SEID_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/3/2024 18:29	52403	GRPA_T2	62	55	-7	1	0.8	-0.2	-0.23	-0.24	0	0	0	0	0	0
7/3/2024 18:29	13903	SEID_T1	8	10	2	1.19	1.33	0.14	0	0	0	0	0	0	0	0
7/3/2024 18:29	13904	SEID_T1	3	2	-1	0.5	0	-0.5	0.64	0.64	0	0	0	0	0	0
7/3/2024 18:30	13903	SEID_T1	10	9	-1	1.35	1.9	0.55	0	0	0	0	0	0	0	0
7/3/2024 18:30	13904	SEID_T1	0	3	3	0	0.5	0.5	0.64	0.64	0	0	0	0	0	0
7/3/2024 18:30	13905	SEID_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/3/2024 18:31	64903	MILL_T2	8	28	20	0.14	0.29	0.15	0	0	0	0	0	0	0	0
7/3/2024 18:31	64902	MILL_T2	0	0	0	0	0	0	-0.58	-0.59	1	1	0	900	900	0
7/3/2024 18:31	63804	HEMP_T1	1	1	0	6.2	6.1	-0.1	0.03	0.02	0	0	0	0	0	0
7/3/2024 18:32	63304	GREE_T1	0	12	12	0	0.18	0.18	0	0	0	0	0	0	0	0
7/3/2024 18:32	63305	GREE_T1	12	16	4	0.43	0.5	0.07	0	0	0	0	0	0	0	0
7/3/2024 18:32	63306	GREE_T1	0	0	0	0	0	0	-1.53	-1.55	1	1	0	900	900	0
7/3/2024 18:35	64902	MILL_T2	0	0	0	0	0	0	-0.58	-0.59	1	1	0	900	900	0
7/3/2024 18:35	64903	MILL_T2	8	28	20	0.14	0.29	0.15	0	0	0	0	0	0	0	0
7/3/2024 18:37	43304	WATS_T2	6	12	6	0.5	0.57	0.07	-0.48	-0.53	1	1	0	600	600	0
7/3/2024 18:40	43304	WATS_T2	6	12	6	0.5	0.57	0.07	-0.96	-1.05	2	2	0	1200	1200	0
7/3/2024 18:49	22002	BOHE_T1	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
7/3/2024 18:55	46004	BERW_T2	2	3	1	0.55	0.25	-0.3	0.61	0.57	0	0	0	0	0	0
7/3/2024 18:55	46003	BERW_T2	1	0	-1	5.4	0	-5.4	0	0	0	0	0	0	0	0
7/3/2024 19:00	45602	WOOL_T1	17	61	44	0.49	0.8	0.31	0.73	0.82	0	0	0	0	0	0
7/3/2024 19:02	11904	ETEX_T2	0	0	0	0	0	0	-0.23	-0.27	0	0	0	0	0	0
7/3/2024 19:03	64902	MILL_T2	0	0	0	0	0	0	-0.61	-0.52	1	1	0	900	900	0
7/3/2024 19:03	64903	MILL_T2	27	6	-21	0.29	0.13	-0.16	0	0	0	0	0	0	0	0
7/3/2024 19:05	22002	BOHE_T1	0	0	0	0	0	0	0.8	0.78	0	0	0	0	0	0
7/3/2024 19:05	22003	BOHE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 19:08	65601	QVIL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
7/3/2024 19:08	65604	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/3/2024 19:08	65603	QVIL_T2	0	1	1	0	0.1	0.1	0.49	0.47	0	0	0	0	0	0
7/3/2024 19:10	12001	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 19:10	12006	HATF_T1	0	0	0	0	0	0	-0.26	0.53	2	1	-1	2400	1200	-1200
7/3/2024 19:21	22003	BOHE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/3/2024 19:21	57304	MOAL_T2	20	9	-11	0.44	0	-0.44	-0.23	-0.22	0	0	0	0	0	0
7/3/2024 19:21	57303	MOAL_T2	1	1	0	8	7.4	-0.6	0	0	0	0	0	0	0	0
7/3/2024 19:21	57301	MOAL_T2	1	1	0	2.6	0	-2.6	0	0	0	0	0	0	0	0
7/3/2024 19:21	22002	BOHE_T1	0	0	0	0	0	0	0.78	0.77	0	0	0	0	0	0
7/3/2024 19:27	16301	ALPA_T1	0	0	0	0	0	0	0.59	0.55	0	0	0	0	0	0
7/3/2024 19:30	66301	MCGO_T2	0	0	0	0	0	0	-1.34	-1.36	0	0	0	0	0	0
7/3/2024 19:32	22701	MINO_T1	0	0	0	0	0	0	-0.44	-0.49	1	1	0	600	600	0
7/3/2024 19:34	21206	ECAR_T2	9	9	0	1.83	2.2	0.37	0.6	0.53	0	0	0	0	0	0
7/3/2024 19:34	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 19:34	57301	MOAL_T2	1	0	-1	0.8	0	-0.8	0.87	0.86	0	0	0	0	0	0
7/3/2024 19:34	57304	MOAL_T2	9	0	-9	0.37	0	-0.37	0	0	0	0	0	0	0	0
7/3/2024 19:34	57303	MOAL_T2	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
7/3/2024 19:38	66901	SHIL_T2	3	69	66	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/3/2024 19:38	66902	SHIL_T2	1	34	33	0.1	0.15	0.05	-1.73	-1.76	0	0	0	0	0	0
7/3/2024 19:42	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0.28	0.26	0	0	0	0	0	0
7/3/2024 19:44	61701	ELIZ_T1	1	1	0	2.2	2.9	0.7	1.07	1.21	0	0	0	0	0	0
7/3/2024 19:45	11901	ETEX_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
7/3/2024 19:48	12807	MICK_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/3/2024 19:48	12802	MICK_T1	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
7/3/2024 19:49	52004	LING_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
7/3/2024 19:50	13501	MCMI_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
7/3/2024 19:50	12802	MICK_T1	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
7/3/2024 19:50	12807	MICK_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/3/2024 20:01	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 20:01	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 20:01	29402	BELT_T1	4	1	-3	2.2	8.5	6.3	0	0	0	0	0	0	0	0
7/3/2024 20:01	40502	CRES_T2	3	6	3	0.17	0.22	0.05	-0.09	-0.11	0	0	0	0	0	0
7/3/2024 20:02	11103	EGYP_T1	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
7/3/2024 20:02	11102	EGYP_T1	3	3	0	1.13	0.7	-0.43	0	0	0	0	0	0	0	0
7/3/2024 20:02	11104	EGYP_T1	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
7/3/2024 20:03	43402	BENT_T1	0	0	0	0	0	0	-0.79	-0.8	1	1	0	900	900	0
7/3/2024 20:03	43401	BENT_T1	5	5	0	0.72	0.86	0.14	0	0	0	0	0	0	0	0
7/3/2024 20:05	65701	RVIL_T1	0	0	0	0	0	0	-1.61	-1.7	0	0	0	0	0	0
7/3/2024 20:17	46301	ROHR_T1	69	127	58	0.24	0.32	0.08	0.8	0.79	0	0	0	0	0	0
7/3/2024 20:17	46302	ROHR_T1	7	8	1	0.94	1.12	0.18	0.32	0.32	0	0	0	0	0	0
7/3/2024 20:18	46301	ROHR_T1	69	127	58	0.24	0.32	0.08	0.4	0.39	0	0	0	0	0	0
7/3/2024 20:18	46302	ROHR_T1	7	8	1	0.94	1.12	0.18	0	0	0	0	0	0	0	0
7/3/2024 20:21	53501	EVIL_T2	1	381	380	0.1	0.5	0.4	-0.7	-0.72	1	1	0	600	600	0
7/3/2024 20:21	53901	HALI_T2	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
7/3/2024 20:21	53903	HALI_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
7/3/2024 20:21	53902	HALI_T2	1	1	0	4.5	5.1	0.6	0	0	0	0	0	0	0	0
7/3/2024 20:22	56501	ROCK_T2	145	261	116	0.31	0.37	0.06	-2.27	-2.32	0	0	0	0	0	0
7/3/2024 20:22	46302	ROHR_T1	7	8	1	0.94	1.12	0.18	0.32	0.31	0	0	0	0	0	0
7/3/2024 20:22	46301	ROHR_T1	69	127	58	0.24	0.32	0.08	0	0	0	0	0	0	0	0
7/3/2024 20:22	25503	MADI_T1	43	70	27	0.18	0.23	0.05	-0.58	-0.6	0	0	0	0	0	0
7/3/2024 20:24	53901	HALI_T2	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
7/3/2024 20:24	53903	HALI_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
7/3/2024 20:24	53902	HALI_T2	1	1	0	4.5	5.1	0.6	0	0	0	0	0	0	0	0
7/3/2024 20:25	53903	HALI_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
7/3/2024 20:25	53902	HALI_T2	1	1	0	4.5	5.1	0.6	0	0	0	0	0	0	0	0
7/3/2024 20:25	53901	HALI_T2	0	0	0	0	0	0	-1.77	-1.8	0	0	0	0	0	0
7/3/2024 20:31	62102	ELAN_T1	0	0	0	0	0	0	1.53	1.43	0	0	0	0	0	0
7/3/2024 20:44	57401	SPAN_T1	0	0	0	0	0	0	-0.49	-0.52	1	1	0	600	600	0
7/3/2024 20:45	57401	SPAN_T1	0	0	0	0	0	0	-0.49	-0.52	1	1	0	600	600	0
7/3/2024 20:46	57401	SPAN_T1	0	0	0	0	0	0	-0.49	-0.52	1	1	0	600	600	0
7/3/2024 20:47	57401	SPAN_T1	0	0	0	0	0	0	-0.98	-1.04	2	2	0	1200	1200	0
7/3/2024 20:48	57401	SPAN_T1	0	0	0	0	0	0	-0.49	-0.52	1	1	0	600	600	0
7/3/2024 21:02	53802	MBRG_T2	0	46	46	0	0.42	0.42	1.52	1.54	0	0	0	0	0	0
7/3/2024 21:06	52404	GRPA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/3/2024 21:06	52402	GRPA_T2	3	10	7	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/3/2024 21:06	52403	GRPA_T2	3	3	0	0.87	0.63	-0.24	-0.29	-0.31	0	0	0	0	0	0
7/3/2024 21:06	25402	LAHA_T2	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
7/3/2024 21:14	15603	NSTR_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
7/3/2024 21:14	15601	NSTR_T2	2	3	1	0.25	0.33	0.08	0	0	0	0	0	0	0	0
7/3/2024 21:16	47001	HUGH_T2	3	3	0	8.57	7.03	-1.54	-0.32	-0.35	0	0	0	0	0	0
7/3/2024 21:19	47001	HUGH_T2	3	3	0	8.57	7.03	-1.54	-0.32	-0.35	0	0	0	0	0	0
7/3/2024 21:32	22602	KIMB_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
7/3/2024 21:33	45602	WOOL_T1	147	168	21	0.84	0.8	-0.04	1.24	1.19	0	0	0	0	0	0
7/3/2024 21:40	57401	SPAN_T1	0	1	1	0	0	0	-0.64	-0.69	1	1	0	600	600	0
7/3/2024 21:40	57403	SPAN_T1	0	7	7	0	0.2	0.2	0	0	0	0	0	0	0	0
7/3/2024 22:18	48302	ORWI_T2	2	2	0	1	1.1	0.1	-0.35	-0.36	0	0	0	0	0	0
7/3/2024 22:24	60801	BUCK_T1	70	70	0	0.61	0.62	0.01	-0.07	-0.09	0	0	0	0	0	0
7/3/2024 22:24	60803	BUCK_T1	27	28	1	0.82	0.8	-0.02	0	0	0	0	0	0	0	0
7/3/2024 22:26	61701	ELIZ_T1	1	1	0	3.5	4	0.5	0.72	0.66	0	0	0	0	0	0
7/3/2024 22:28	61701	ELIZ_T1	1	1	0	3.5	4	0.5	0.72	0.66	0	0	0	0	0	0
7/3/2024 22:29	40602	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 22:29	40601	PIGR_T1	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
7/3/2024 22:29	61702	ELIZ_T2	0	0	0	0	0	0	-1.62	-1.63	2	2	0	1500	1500	0
7/3/2024 22:31	40602	PIGR_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/3/2024 22:31	40601	PIGR_T1	0	11	11	0	0.12	0.12	0.02	0	0	0	0	0	0	0
7/3/2024 22:31	63804	HEMP_T1	1	1	0	5.9	5.5	-0.4	0.03	0.02	0	0	0	0	0	0
7/3/2024 22:33	40101	HUNT_T2	2	1	-1	0.45	0	-0.45	-0.52	-0.54	0	0	0	0	0	0
7/3/2024 22:34	13502	MCMI_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
7/3/2024 22:34	20603	GRWO_T2	54	119	65	0.31	0.32	0.01	-0.49	-0.49	1	1	0	900	900	0
7/3/2024 22:34	60801	BUCK_T1	69	60	-9	0.62	0.49	-0.13	0	0	0	0	0	0	0	0
7/3/2024 22:34	60803	BUCK_T1	28	23	-5	0.8	0.73	-0.07	-0.35	-0.36	1	1	0	600	600	0
7/3/2024 22:34	20601	GRWO_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:34	46801	HEPB_T2	3	2	-1	0.97	0.8	-0.17	0.02	0	0	0	0	0	0	0
7/3/2024 22:34	67603	WARW_T1	0	0	0	0	0	0	0.19	0.16	0	0	0	0	0	0
7/3/2024 22:34	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/3/2024 22:35	60803	BUCK_T1	28	23	-5	0.8	0.73	-0.07	0	0	0	0	0	0	0	0
7/3/2024 22:35	29402	BELT_T1	1	1	0	8.7	9.2	0.5	0	0	0	0	0	0	0	0
7/3/2024 22:35	60801	BUCK_T1	69	60	-9	0.62	0.49	-0.13	-0.07	-0.09	0	0	0	0	0	0
7/3/2024 22:36	21206	ECAR_T2	3	5	2	2.87	4.4	1.53	0.3	0.29	0	0	0	0	0	0
7/3/2024 22:36	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/3/2024 22:36	29402	BELT_T1	1	1	0	8.7	9.2	0.5	0	0	0	0	0	0	0	0
7/3/2024 22:36	20603	GRWO_T2	54	119	65	0.31	0.32	0.01	0	0	0	0	0	0	0	0
7/3/2024 22:36	64904	MILL_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
7/3/2024 22:36	63602	LETO_T1	0	0	0	0	0	0	-0.63	-0.64	1	1	0	600	600	0
7/3/2024 22:36	24801	VALM_T1	0	0	0	0	0	0	-0.19	-0.13	0	0	0	0	0	0
7/3/2024 22:36	60801	BUCK_T1	69	60	-9	0.62	0.49	-0.13	-0.09	-0.1	0	0	0	0	0	0
7/3/2024 22:36	20601	GRWO_T2	0	3	3	0	0.1	0.1	-0.09	-0.1	0	0	0	0	0	0
7/3/2024 22:36	52004	LING_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
7/3/2024 22:36	60803	BUCK_T1	28	23	-5	0.8	0.73	-0.07	0	0	0	0	0	0	0	0
7/3/2024 22:36	21204	ECAR_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:37	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.2	0	0	0	0	0	0
7/3/2024 22:37	15702	TANN_T2	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
7/3/2024 22:37	67502	WEWI_T2	0	0	0	0	0	0	-1.02	-1.06	1	1	0	900	900	0
7/3/2024 22:37	64902	MILL_T2	0	0	0	0	0	0	-0.26	-0.92	1	1	0	900	900	0
7/3/2024 22:37	60803	BUCK_T1	28	23	-5	0.8	0.73	-0.07	-0.36	-0.37	1	1	0	600	600	0
7/3/2024 22:37	60801	BUCK_T1	69	60	-9	0.62	0.49	-0.13	0	0	0	0	0	0	0	0
7/3/2024 22:37	65004	NEFF_T2	0	0	0	0	0	0	-0.65	-0.68	1	1	0	600	600	0
7/3/2024 22:37	67605	WARW_T1	0	0	0	0	0	0	-0.96	-1	0	0	0	0	0	0
7/3/2024 22:37	46801	HEPB_T2	3	2	-1	0.97	0.8	-0.17	0	0	0	0	0	0	0	0
7/3/2024 22:37	60501	NMAN_T2	3	3	0	4.37	4.87	0.5	0	0	0	0	0	0	0	0
7/3/2024 22:37	63602	LETO_T1	0	0	0	0	0	0	-0.63	-0.64	1	1	0	600	600	0
7/3/2024 22:37	15703	TANN_T2	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
7/3/2024 22:37	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0.59	0.58	0	0	0	0	0	0
7/3/2024 22:38	65602	QVIL_T2	4	2	-2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/3/2024 22:38	52002	LING_T2	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
7/3/2024 22:38	24902	WHHA_T1	0	2	2	0	0.95	0.95	0.25	0.24	0	0	0	0	0	0
7/3/2024 22:38	67502	WEWI_T2	0	0	0	0	0	0	-1.02	-1.06	1	1	0	900	900	0
7/3/2024 22:38	51402	LYKE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:38	16402	MOPO_T1	0	0	0	0	0	0	0.15	0.25	0	0	0	0	0	0
7/3/2024 22:38	48302	ORWI_T2	2	2	0	0.9	1.2	0.3	-0.38	-0.41	0	0	0	0	0	0
7/3/2024 22:38	65603	QVIL_T2	126	26	-100	0.17	0.15	-0.02	0.25	0.24	0	0	0	0	0	0
7/3/2024 22:38	65001	NEFF_T2	0	0	0	0	0	0	-0.79	-0.81	1	1	0	1200	1200	0
7/3/2024 22:38	24105	EHAZ_T1	4	4	0	5.7	5.43	-0.27	0	0	0	0	0	0	0	0
7/3/2024 22:38	13501	MCMI_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
7/3/2024 22:38	24103	EHAZ_T1	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
7/3/2024 22:38	22001	BOHE_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
7/3/2024 22:38	11104	EGYP_T1	0	0	0	0	0	0	0.55	0.51	0	0	0	0	0	0
7/3/2024 22:38	22003	BOHE_T1	1	2	1	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
7/3/2024 22:38	63804	HEMP_T1	1	1	0	5.9	5.5	-0.4	0.02	0.01	0	0	0	0	0	0
7/3/2024 22:38	51401	LYKE_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
7/3/2024 22:38	65601	QVIL_T2	85	22	-63	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
7/3/2024 22:38	65604	QVIL_T2	3	3	0	0.47	0.23	-0.24	0	0	0	0	0	0	0	0
7/3/2024 22:38	64902	MILL_T2	0	0	0	0	0	0	-0.26	-0.92	1	1	0	900	900	0
7/3/2024 22:39	61701	ELIZ_T1	1	1	0	3.9	4	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:39	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 22:39	65802	RTWN_T2	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
7/3/2024 22:39	16406	MOPO_T1	0	0	0	0	0	0	0	-1.33	1	2	1	900	2100	1200
7/3/2024 22:39	61703	ELIZ_T1	0	0	0	0	0	0	-2.54	-2.37	2	2	0	2100	2100	0
7/3/2024 22:39	46206	DANV_T2	1	2	1	0.9	1	0.1	1.92	1.9	2	2	0	2100	2100	0
7/3/2024 22:39	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.2	0	0	0	0	0	0
7/3/2024 22:39	60501	NMAN_T2	3	3	0	4.37	4.87	0.5	0	0	0	0	0	0	0	0
7/3/2024 22:39	29402	BELT_T1	1	1	0	8.7	9.2	0.5	0	0	0	0	0	0	0	0
7/3/2024 22:39	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/3/2024 22:40	64201	KINZ_T1	1	1	0	0.4	0.8	0.4	0.73	0.69	1	1	0	300	300	0
7/3/2024 22:40	64202	KINZ_T1	2	3	1	0.2	0.73	0.53	0	0	0	0	0	0	0	0
7/3/2024 22:40	61703	ELIZ_T1	0	0	0	0	0	0	-5.09	-4.74	4	4	0	4200	4200	0
7/3/2024 22:40	29402	BELT_T1	1	1	0	8.7	9.2	0.5	0	0	0	0	0	0	0	0
7/3/2024 22:40	55101	WERT_T1	0	0	0	0	0	0	-1.82	-1.83	3	3	0	2400	2400	0
7/3/2024 22:40	64204	KINZ_T1	1	1	0	0.5	1.3	0.8	0	0	0	0	0	0	0	0
7/3/2024 22:40	11103	EGYP_T1	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
7/3/2024 22:40	67603	WARW_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
7/3/2024 22:40	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 22:40	12701	MACU_T1	0	0	0	0	0	0	-0.96	-0.98	1	1	0	1200	1200	0
7/3/2024 22:40	61102	BERK_T5	0	0	0	0	0	0	0.08	0.09	3	3	0	900	900	0
7/3/2024 22:40	61701	ELIZ_T1	1	1	0	3.9	4	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:40	44601	SALE_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
7/3/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
7/3/2024 22:40	13503	MCMI_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
7/3/2024 22:40	20403	ASHF_T2	0	0	0	0	0	0	0.58	0.54	0	0	0	0	0	0
7/3/2024 22:40	42201	SHEN_T2	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
7/3/2024 22:40	20401	ASHF_T2	2	2	0	1.05	0.4	-0.65	0	0	0	0	0	0	0	0
7/3/2024 22:40	44301	BEAV_T2	1	1	0	1.7	0	-1.7	0.53	0.54	1	1	0	600	600	0
7/3/2024 22:41	42902	MIDD_T2	0	0	0	0	0	0	-0.65	-0.57	1	1	0	600	600	0
7/3/2024 22:41	43301	WATS_T2	0	0	0	0	0	0	-0.31	-0.33	1	1	0	900	900	0
7/3/2024 22:41	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 22:41	60801	BUCK_T1	69	60	-9	0.62	0.49	-0.13	-0.09	-0.1	0	0	0	0	0	0
7/3/2024 22:41	22701	MINO_T1	0	0	0	0	0	0	-0.65	-0.67	1	1	0	600	600	0
7/3/2024 22:41	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 22:41	24205	PROV_T3	8	10	2	0.29	0.37	0.08	0	0	0	0	0	0	0	0
7/3/2024 22:41	46203	DANV_T2	0	0	0	0	0	0	-1.68	-1.7	0	0	0	0	0	0
7/3/2024 22:41	16401	MOPO_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
7/3/2024 22:41	47401	PENS_T1	0	0	0	0	0	0	0.11	0.02	0	0	0	0	0	0
7/3/2024 22:41	26401	INOR_T1	1	1	0	8.4	8.8	0.4	0.72	0.7	0	0	0	0	0	0
7/3/2024 22:41	45702	LIND_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
7/3/2024 22:41	24201	PROV_T3	1	1	0	7.3	7.1	-0.2	-0.94	-0.96	1	1	0	1200	1200	0
7/3/2024 22:41	46206	DANV_T2	1	2	1	0.9	1	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:41	43304	WATS_T2	4	2	-2	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/3/2024 22:41	42903	MIDD_T2	2	6	4	0.85	0.42	-0.43	0	0	0	0	0	0	0	0
7/3/2024 22:41	65901	SAKR_T2	1	1	0	7.9	8.1	0.2	-1.17	-1.18	2	2	0	1500	1500	0
7/3/2024 22:41	24204	PROV_T3	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
7/3/2024 22:41	43402	BENT_T1	0	0	0	0	0	0	-0.85	-0.85	1	1	0	900	900	0
7/3/2024 22:41	43302	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/3/2024 22:41	60803	BUCK_T1	28	23	-5	0.8	0.73	-0.07	-0.36	-0.37	1	1	0	600	600	0
7/3/2024 22:41	61102	BERK_T5	0	0	0	0	0	0	0.03	-0.03	1	1	0	300	300	0
7/3/2024 22:42	13503	MCMI_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
7/3/2024 22:42	22903	HARW_T1	8	7	-1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
7/3/2024 22:42	11904	ETEX_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
7/3/2024 22:42	22901	HARW_T1	0	0	0	0	0	0	-0.42	-0.34	1	1	0	1200	1200	0
7/3/2024 22:42	13904	SEID_T1	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
7/3/2024 22:42	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 22:42	67502	WEWI_T2	0	0	0	0	0	0	-1.02	-1.06	1	1	0	900	900	0
7/3/2024 22:42	46206	DANV_T2	1	2	1	0.9	1	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:42	53102	WTWN_T1	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
7/3/2024 22:42	61301	EARL_T1	0	0	0	0	0	0	-0.38	-0.38	1	1	0	900	900	0
7/3/2024 22:42	22905	HARW_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/3/2024 22:42	65701	RVIL_T1	0	0	0	0	0	0	-0.49	-0.53	0	0	0	0	0	0
7/3/2024 22:42	46203	DANV_T2	0	0	0	0	0	0	-1.68	-1.7	0	0	0	0	0	0
7/3/2024 22:42	64101	REFR_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
7/3/2024 22:43	22901	HARW_T1	0	0	0	0	0	0	-0.42	-0.34	1	1	0	1200	1200	0
7/3/2024 22:43	24902	WHHA_T1	0	2	2	0	0.95	0.95	0.5	0.49	0	0	0	0	0	0
7/3/2024 22:43	67502	WEWI_T2	0	0	0	0	0	0	-1.02	-1.06	1	1	0	900	900	0
7/3/2024 22:43	63404	HONY_T1	0	16	16	0	0.14	0.14	0	0	0	0	0	0	0	0
7/3/2024 22:43	26401	INOR_T1	1	1	0	8.4	8.8	0.4	0	0	0	0	0	0	0	0
7/3/2024 22:43	22003	BOHE_T1	1	2	1	0.9	0.55	-0.35	-0.09	-0.09	0	0	0	0	0	0
7/3/2024 22:43	67605	WARW_T1	0	0	0	0	0	0	-1.93	-1.99	0	0	0	0	0	0
7/3/2024 22:43	22905	HARW_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/3/2024 22:43	46203	DANV_T2	0	0	0	0	0	0	-1.68	-1.7	0	0	0	0	0	0
7/3/2024 22:43	46206	DANV_T2	1	2	1	0.9	1	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:43	26402	INOR_T1	0	0	0	0	0	0	-1.12	-1.13	0	0	0	0	0	0
7/3/2024 22:43	67801	WLAN_T1	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
7/3/2024 22:43	43302	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/3/2024 22:43	67805	WLAN_T1	21	0	-21	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/3/2024 22:43	56802	BENV_T2	0	1	1	0	0.2	0.2	-0.98	-1.01	0	0	0	0	0	0
7/3/2024 22:43	43304	WATS_T2	4	2	-2	0.2	0.25	0.05	-0.41	-0.43	0	0	0	0	0	0
7/3/2024 22:43	43301	WATS_T2	0	0	0	0	0	0	-0.31	-0.33	1	1	0	900	900	0
7/3/2024 22:43	64902	MILL_T2	0	0	0	0	0	0	-0.26	-0.92	1	1	0	900	900	0
7/3/2024 22:43	16302	ALPA_T2	0	0	0	0	0	0	2.13	1.91	0	0	0	0	0	0
7/3/2024 22:43	22903	HARW_T1	8	7	-1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
7/3/2024 22:43	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 22:43	64101	REFR_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
7/3/2024 22:43	65701	RVIL_T1	0	0	0	0	0	0	-0.49	-0.53	0	0	0	0	0	0
7/3/2024 22:43	11901	ETEX_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
7/3/2024 22:43	60201	ATGL_T2	44	63	19	0.21	0.2	-0.01	0.67	0.57	0	0	0	0	0	0
7/3/2024 22:43	63401	HONY_T1	0	0	0	0	0	0	0.1	0.1	1	1	0	600	600	0
7/3/2024 22:44	63404	HONY_T1	0	16	16	0	0.14	0.14	0	0	0	0	0	0	0	0
7/3/2024 22:44	66902	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/3/2024 22:44	66901	SHIL_T2	0	39	39	0	0.12	0.12	0.23	0.21	0	0	0	0	0	0
7/3/2024 22:44	66301	MCGO_T2	0	4	4	0	0.13	0.13	-1.51	-1.52	0	0	0	0	0	0
7/3/2024 22:44	52404	GRPA_T2	41	1	-40	0.15	0.3	0.15	0	0	0	0	0	0	0	0
7/3/2024 22:44	15703	TANN_T2	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
7/3/2024 22:44	20403	ASHF_T2	0	0	0	0	0	0	0.58	0.54	0	0	0	0	0	0
7/3/2024 22:44	46001	BERW_T1	0	0	0	0	0	0	1.01	0.99	0	0	0	0	0	0
7/3/2024 22:44	43301	WATS_T2	0	0	0	0	0	0	-0.31	-0.33	1	1	0	900	900	0
7/3/2024 22:44	63304	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/3/2024 22:44	63306	GREE_T1	0	0	0	0	0	0	-1.89	-1.92	1	1	0	900	900	0
7/3/2024 22:44	52401	GRPA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/3/2024 22:44	40502	CRES_T2	7	15	8	0.17	0.3	0.13	-0.56	-0.62	0	0	0	0	0	0
7/3/2024 22:44	64101	REFR_T1	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
7/3/2024 22:44	53902	HALI_T2	1	1	0	4.3	4.9	0.6	0	0	0	0	0	0	0	0
7/3/2024 22:44	15702	TANN_T2	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
7/3/2024 22:44	40501	CRES_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:44	63305	GREE_T1	15	0	-15	0.47	0	-0.47	0	0	0	0	0	0	0	0
7/3/2024 22:44	52403	GRPA_T2	3	2	-1	0.6	0.8	0.2	-0.44	-0.46	0	0	0	0	0	0
7/3/2024 22:44	43304	WATS_T2	4	2	-2	0.2	0.25	0.05	-1.23	-1.29	0	0	0	0	0	0
7/3/2024 22:44	53903	HALI_T2	2	2	0	0.25	0.45	0.2	0.05	0.03	0	0	0	0	0	0
7/3/2024 22:44	52402	GRPA_T2	4	2	-2	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/3/2024 22:44	63401	HONY_T1	0	0	0	0	0	0	0.2	0.21	2	2	0	1200	1200	0
7/3/2024 22:44	43302	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/3/2024 22:44	57404	SPAN_T2	0	0	0	0	0	0	-0.43	-0.49	1	1	0	1200	1200	0
7/3/2024 22:44	20401	ASHF_T2	2	2	0	1.05	0.4	-0.65	0	0	0	0	0	0	0	0
7/3/2024 22:44	66303	MCGO_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/3/2024 22:44	60201	ATGL_T2	44	63	19	0.21	0.2	-0.01	0.67	0.57	0	0	0	0	0	0
7/3/2024 22:45	65604	QVIL_T2	3	3	0	0.2	0.23	0.03	0.59	0.57	0	0	0	0	0	0
7/3/2024 22:45	43304	WATS_T2	2	3	1	0.25	0	-0.25	-2.05	-2.15	0	0	0	0	0	0
7/3/2024 22:45	24702	FLND_T2	0	0	0	0	0	0	0.12	-0.07	1	1	0	1200	1200	0
7/3/2024 22:45	63401	HONY_T1	0	0	0	0	0	0	0.1	0.1	1	1	0	600	600	0
7/3/2024 22:45	47401	PENS_T1	0	0	0	0	0	0	0.11	0.02	0	0	0	0	0	0
7/3/2024 22:45	60501	NMAN_T2	3	3	0	4.63	4.87	0.24	0	0	0	0	0	0	0	0
7/3/2024 22:45	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 22:45	24102	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 22:45	56803	BENV_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:45	42701	AUGU_T1	0	1	1	0	0	0	0	0	2	2	0	1800	1800	0
7/3/2024 22:45	61703	ELIZ_T1	0	0	0	0	0	0	-2.54	-2.37	2	2	0	2100	2100	0
7/3/2024 22:45	56501	ROCK_T2	2	8	6	0.4	0.36	-0.04	-1.28	-1.3	0	0	0	0	0	0
7/3/2024 22:45	11507	FREE_T2	1	7	6	0.7	0.64	-0.06	1.36	1.31	1	1	0	600	600	0
7/3/2024 22:45	65601	QVIL_T2	2	22	20	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
7/3/2024 22:45	52002	LING_T2	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
7/3/2024 22:45	44801	EDAN_T2	1	8	7	0.7	0.5	-0.2	0.71	0.69	0	0	0	0	0	0
7/3/2024 22:45	60803	BUCK_T1	20	23	3	0.7	0.73	0.03	-0.36	-0.37	1	1	0	600	600	0
7/3/2024 22:45	15702	TANN_T2	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
7/3/2024 22:45	61701	ELIZ_T1	1	1	0	4	3.6	-0.4	0	0	0	0	0	0	0	0
7/3/2024 22:45	65602	QVIL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
7/3/2024 22:45	16402	MOPO_T1	0	0	0	0	0	0	0.15	0.25	0	0	0	0	0	0
7/3/2024 22:45	24104	EHAZ_T1	0	0	0	0	0	0	-0.77	-0.78	1	1	0	1200	1200	0
7/3/2024 22:45	12006	HATF_T1	0	0	0	0	0	0	0.68	0.6	0	0	0	0	0	0
7/3/2024 22:45	22002	BOHE_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
7/3/2024 22:45	64101	REFR_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/3/2024 22:45	65603	QVIL_T2	3	26	23	0.1	0.15	0.05	0	0	0	0	0	0	0	0
7/3/2024 22:45	46001	BERW_T1	0	0	0	0	0	0	3.02	2.98	0	0	0	0	0	0
7/3/2024 22:45	22003	BOHE_T1	2	1	-1	0.55	1.1	0.55	0	0	0	0	0	0	0	0
7/3/2024 22:45	15703	TANN_T2	1	1	0	5	4.8	-0.2	0	0	0	0	0	0	0	0
7/3/2024 22:45	49804	UNIV_T1	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
7/3/2024 22:45	63404	HONV_T1	6	16	10	0.1	0.14	0.04	0	0	0	0	0	0	0	0
7/3/2024 22:45	61102	BERK_T5	0	0	0	0	0	0	0.03	-0.03	1	1	0	300	300	0
7/3/2024 22:45	67605	WARW_T1	0	0	0	0	0	0	-0.96	-1	0	0	0	0	0	0
7/3/2024 22:45	60801	BUCK_T1	57	54	-3	0.48	0.46	-0.02	0	0	0	0	0	0	0	0
7/3/2024 22:45	46206	DANV_T2	2	3	1	0.55	1	0.45	1.92	1.9	2	2	0	2100	2100	0
7/3/2024 22:45	56801	BENV_T1	7	7	0	1.3	0.9	-0.4	-0.4	-0.43	1	1	0	600	600	0
7/3/2024 22:45	42903	MIDD_T2	6	2	-4	0.42	1.05	0.63	0	0	0	0	0	0	0	0
7/3/2024 22:45	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.2	0	0	0	0	0	0
7/3/2024 22:45	24105	EHAZ_T1	4	4	0	5.63	5.43	-0.2	0	0	0	0	0	0	0	0
7/3/2024 22:45	42902	MIDD_T2	0	0	0	0	0	0	-0.65	-0.57	1	1	0	600	600	0
7/3/2024 22:46	20401	ASHF_T2	1	2	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/3/2024 22:46	66903	SHIL_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:46	44301	BEAV_T2	1	1	0	1	0	-1	1.06	1.09	2	2	0	1200	1200	0
7/3/2024 22:46	60803	BUCK_T1	20	23	3	0.7	0.73	0.03	0	0	0	0	0	0	0	0
7/3/2024 22:46	13503	MCMI_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
7/3/2024 22:46	67602	WARW_T2	0	0	0	0	0	0	0.97	0.93	0	0	0	0	0	0
7/3/2024 22:46	12701	MACU_T1	0	0	0	0	0	0	-0.96	-0.98	1	1	0	1200	1200	0
7/3/2024 22:46	58401	MORO_T1	0	0	0	0	0	0	-0.55	-0.58	1	1	0	600	600	0
7/3/2024 22:46	40902	JESH_T1	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
7/3/2024 22:46	42903	MIDD_T2	6	2	-4	0.42	1.05	0.63	0	0	0	0	0	0	0	0
7/3/2024 22:46	42201	SHEN_T2	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
7/3/2024 22:46	56801	BENV_T1	7	7	0	1.3	0.9	-0.4	-0.8	-0.86	2	2	0	1200	1200	0
7/3/2024 22:46	21203	ECAR_T1	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
7/3/2024 22:46	20403	ASHF_T2	0	0	0	0	0	0	1.16	1.09	0	0	0	0	0	0
7/3/2024 22:46	67001	STHI_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
7/3/2024 22:46	56803	BENV_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:46	59101	WALK_T2	0	0	0	0	0	0	0.9	0.91	2	2	0	1200	1200	0
7/3/2024 22:46	61703	ELIZ_T1	0	0	0	0	0	0	-2.54	-2.37	2	2	0	2100	2100	0
7/3/2024 22:46	67203	TEHI_T1	0	0	0	0	0	0	2.42	2.49	2	2	0	1500	1500	0
7/3/2024 22:46	40901	JESH_T1	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
7/3/2024 22:46	60801	BUCK_T1	57	54	-3	0.48	0.46	-0.02	-0.09	-0.1	0	0	0	0	0	0
7/3/2024 22:46	66902	SHIL_T2	0	3	3	0	0.2	0.2	-0.1	-0.11	0	0	0	0	0	0
7/3/2024 22:46	43202	MVIL_T2	52	64	12	0.38	0.75	0.37	-0.55	-0.55	0	0	0	0	0	0
7/3/2024 22:46	61701	ELIZ_T1	1	1	0	4	3.6	-0.4	0	0	0	0	0	0	0	0
7/3/2024 22:46	66901	SHIL_T2	0	69	69	0	0.2	0.2	0	0	0	0	0	0	0	0
7/3/2024 22:46	42902	MIDD_T2	0	0	0	0	0	0	-0.65	-0.57	1	1	0	600	600	0
7/3/2024 22:46	11104	EGYP_T1	0	0	0	0	0	0	0.55	0.51	0	0	0	0	0	0
7/3/2024 22:47	43202	MVIL_T2	52	64	12	0.38	0.75	0.37	-0.55	-0.55	0	0	0	0	0	0
7/3/2024 22:47	61102	BERK_T5	0	0	0	0	0	0	0.03	-0.03	1	1	0	300	300	0
7/3/2024 22:47	56501	ROCK_T2	2	8	6	0.4	0.36	-0.04	-5.11	-5.21	0	0	0	0	0	0
7/3/2024 22:47	44601	SALE_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
7/3/2024 22:47	51402	LYKE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:47	43304	WATS_T2	2	3	1	0.25	0	-0.25	-0.41	-0.43	0	0	0	0	0	0
7/3/2024 22:47	56801	BENV_T1	7	7	0	1.3	0.9	-0.4	-0.4	-0.43	1	1	0	600	600	0
7/3/2024 22:47	56803	BENV_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:47	45802	HEGI_T2	48	46	-2	1.55	1.1	-0.45	0.58	0.37	1	1	0	300	300	0
7/3/2024 22:47	43402	BENT_T1	0	1	1	0	0	0	-0.85	-0.85	1	1	0	900	900	0
7/3/2024 22:47	64101	REFR_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
7/3/2024 22:47	51401	LYKE_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
7/3/2024 22:47	55101	WERT_T1	0	0	0	0	0	0	-3.64	-3.66	6	6	0	4800	4800	0
7/3/2024 22:47	58001	WCAR_T1	3	4	1	0.23	0.73	0.5	0	0	0	0	0	0	0	0
7/3/2024 22:47	12301	LANA_T2	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
7/3/2024 22:47	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/3/2024 22:47	12302	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 22:47	52004	LING_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
7/3/2024 22:47	60201	ATGL_T2	8	63	55	0.11	0.2	0.09	0.67	0.57	0	0	0	0	0	0
7/3/2024 22:47	54701	NEBL_T1	1	1	0	0.2	0.5	0.3	0	0	1	1	0	600	600	0
7/3/2024 22:47	56802	BENV_T2	1	1	0	0.2	0.1	-0.1	-0.98	-1.01	0	0	0	0	0	0
7/3/2024 22:47	58003	WCAR_T1	1	2	1	1	0.7	-0.3	0.96	0.96	0	0	0	0	0	0
7/3/2024 22:47	62102	ELAN_T1	0	0	0	0	0	0	1.16	1.13	0	0	0	0	0	0
7/3/2024 22:48	43202	MVIL_T2	52	64	12	0.38	0.75	0.37	-0.55	-0.55	0	0	0	0	0	0
7/3/2024 22:48	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/3/2024 22:48	13503	MCMI_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
7/3/2024 22:48	12701	MACU_T1	0	0	0	0	0	0	-0.96	-0.98	1	1	0	1200	1200	0
7/3/2024 22:48	58003	WCAR_T1	1	2	1	1	0.7	-0.3	0.96	0.96	0	0	0	0	0	0
7/3/2024 22:48	20403	ASHF_T2	0	0	0	0	0	0	0.58	0.54	0	0	0	0	0	0
7/3/2024 22:48	61102	BERK_T5	0	0	0	0	0	0	0.03	-0.03	1	1	0	300	300	0
7/3/2024 22:48	67201	TEHI_T1	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
7/3/2024 22:48	46101	MACI_T2	0	0	0	0	0	0	0.74	0.73	0	0	0	0	0	0
7/3/2024 22:48	57303	MOAL_T2	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
7/3/2024 22:48	20401	ASHF_T2	1	2	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/3/2024 22:48	16302	ALPA_T2	0	0	0	0	0	0	1.06	0.96	0	0	0	0	0	0
7/3/2024 22:48	42201	SHEN_T2	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
7/3/2024 22:48	64101	REFR_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
7/3/2024 22:48	52403	GRPA_T2	2	2	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/3/2024 22:48	52404	GRPA_T2	1	0	-1	0.3	0	-0.3	-0.37	-0.09	0	0	0	0	0	0
7/3/2024 22:48	63304	GREE_T1	0	0	0	0	0	0	-1.37	-1.41	0	0	0	0	0	0
7/3/2024 22:48	57301	MOAL_T2	0	1	1	0	0	0	0.65	0.63	0	0	0	0	0	0
7/3/2024 22:48	58001	WCAR_T1	3	4	1	0.23	0.73	0.5	0	0	0	0	0	0	0	0
7/3/2024 22:48	57304	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 22:48	24801	VALM_T1	0	0	0	0	0	0	-0.13	-0.25	0	0	0	0	0	0
7/3/2024 22:48	44801	EDAN_T2	1	8	7	0.7	0.5	-0.2	0.71	0.69	0	0	0	0	0	0
7/3/2024 22:48	12802	MICK_T1	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
7/3/2024 22:48	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 22:48	56501	ROCK_T2	2	8	6	0.4	0.36	-0.04	-2.56	-2.61	0	0	0	0	0	0
7/3/2024 22:48	52402	GRPA_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/3/2024 22:49	67602	WARW_T2	0	0	0	0	0	0	0.97	0.93	0	0	0	0	0	0
7/3/2024 22:49	51003	NHAR_T1	0	0	0	0	0	0	-0.95	-1.04	1	1	0	1200	1200	0
7/3/2024 22:49	60201	ATGL_T2	8	63	55	0.11	0.2	0.09	0.67	0.57	0	0	0	0	0	0
7/3/2024 22:49	67605	WARW_T1	0	0	0	0	0	0	-0.96	-1	0	0	0	0	0	0
7/3/2024 22:49	52002	LING_T2	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
7/3/2024 22:49	40601	PIGR_T1	0	13	13	0	0.12	0.12	0	-0.02	0	0	0	0	0	0
7/3/2024 22:49	44301	BEAV_T2	1	1	0	1	0	-1	0.53	0.54	1	1	0	600	600	0
7/3/2024 22:49	56501	ROCK_T2	2	8	6	0.4	0.36	-0.04	-2.56	-2.61	0	0	0	0	0	0
7/3/2024 22:49	14404	SSLA_T1	1	1	0	4.4	4.5	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:49	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 22:49	46206	DANV_T2	2	3	1	0.55	1	0.45	1.92	1.9	2	2	0	2100	2100	0
7/3/2024 22:49	51002	NHAR_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
7/3/2024 22:49	45802	HEGI_T2	48	46	-2	1.55	1.1	-0.45	0.58	0.37	1	1	0	300	300	0
7/3/2024 22:49	55101	WERT_T1	0	0	0	0	0	0	-1.82	-1.83	3	3	0	2400	2400	0
7/3/2024 22:49	57304	MOAL_T2	0	1	1	0	0	0	-0.32	-0.36	0	0	0	0	0	0
7/3/2024 22:49	46001	BERW_T1	0	0	0	0	0	0	1.01	0.99	0	0	0	0	0	0
7/3/2024 22:49	56802	BENV_T2	1	1	0	0.2	0.1	-0.1	-0.98	-1.01	0	0	0	0	0	0
7/3/2024 22:49	16302	ALPA_T2	0	0	0	0	0	0	1.06	0.96	0	0	0	0	0	0
7/3/2024 22:49	51004	NHAR_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
7/3/2024 22:49	57303	MOAL_T2	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
7/3/2024 22:49	20603	GRWO_T2	69	118	49	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
7/3/2024 22:49	20601	GRWO_T2	0	3	3	0	0.1	0.1	-0.1	-0.12	0	0	0	0	0	0
7/3/2024 22:49	13904	SEID_T1	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
7/3/2024 22:49	40603	PIGR_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
7/3/2024 22:49	56803	BENV_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:49	24205	PROV_T3	8	10	2	0.36	0.38	0.02	0	0	0	0	0	0	0	0
7/3/2024 22:49	41902	REED_T1	3	3	0	0.3	0	-0.3	0.35	0.36	1	1	0	900	900	0
7/3/2024 22:49	67402	WAKE_T2	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
7/3/2024 22:49	24204	PROV_T3	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
7/3/2024 22:49	43304	WATS_T2	2	3	1	0.25	0	-0.25	-0.82	-0.86	0	0	0	0	0	0
7/3/2024 22:49	13302	ORVI_T2	0	0	0	0	0	0	0.2	0.13	0	0	0	0	0	0
7/3/2024 22:49	24201	PROV_T3	1	1	0	7.1	6.9	-0.2	-0.94	-0.96	1	1	0	1200	1200	0
7/3/2024 22:49	14403	SSLA_T1	0	0	0	0	0	0	0.85	0.83	0	0	0	0	0	0
7/3/2024 22:49	12002	HATF_T1	0	0	0	0	0	0	-1.08	-1.11	1	1	0	1200	1200	0
7/3/2024 22:49	57301	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 22:49	64101	REFR_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
7/3/2024 22:49	16301	ALPA_T1	1	2	1	0.5	0.35	-0.15	0.08	0.05	0	0	0	0	0	0
7/3/2024 22:49	56801	BENV_T1	7	7	0	1.3	0.9	-0.4	-0.4	-0.43	1	1	0	600	600	0
7/3/2024 22:49	40602	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/3/2024 22:50	20601	GRWO_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:50	67605	WARW_T1	0	0	0	0	0	0	-0.96	-1	0	0	0	0	0	0
7/3/2024 22:50	65802	RTWN_T2	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
7/3/2024 22:50	47401	PENS_T1	0	0	0	0	0	0	0.11	0.02	0	0	0	0	0	0
7/3/2024 22:50	20603	GRWO_T2	69	118	49	0.33	0.32	-0.01	-0.49	-0.5	1	1	0	900	900	0
7/3/2024 22:50	57403	SPAN_T1	11	15	4	0.22	0.31	0.09	0	0	0	0	0	0	0	0
7/3/2024 22:50	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 22:50	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/3/2024 22:50	63804	HEMP_T1	1	1	0	5.9	5.5	-0.4	0.02	0.01	0	0	0	0	0	0
7/3/2024 22:50	42902	MIDD_T2	0	0	0	0	0	0	-1.31	-1.15	2	2	0	1200	1200	0
7/3/2024 22:50	53903	HALI_T2	2	2	0	0.2	0.65	0.45	0.05	0.03	0	0	0	0	0	0
7/3/2024 22:50	53902	HALI_T2	1	1	0	4.3	5.3	1	0	0	0	0	0	0	0	0
7/3/2024 22:50	56801	BENV_T1	7	7	0	1.3	0.9	-0.4	-0.8	-0.86	2	2	0	1200	1200	0
7/3/2024 22:50	52402	GRPA_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/3/2024 22:50	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-1.09	-1.15	0	0	0	0	0	0
7/3/2024 22:50	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2024 22:50	56803	BENV_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:50	42903	MIDD_T2	6	2	-4	0.42	1.05	0.63	0	0	0	0	0	0	0	0
7/3/2024 22:50	56802	BENV_T2	1	1	0	0.2	0.1	-0.1	-0.98	-1.01	0	0	0	0	0	0
7/3/2024 22:50	57401	SPAN_T1	0	0	0	0	0	0	-0.79	-0.73	1	1	0	600	600	0
7/3/2024 22:50	52404	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/3/2024 22:50	58401	MORO_T1	0	0	0	0	0	0	-0.55	-0.58	1	1	0	600	600	0
7/3/2024 22:50	46203	DANV_T2	0	0	0	0	0	0	-1.68	-1.7	0	0	0	0	0	0
7/3/2024 22:50	46206	DANV_T2	2	3	1	0.55	1	0.45	0	0	0	0	0	0	0	0
7/3/2024 22:50	52403	GRPA_T2	2	2	0	0.8	0.5	-0.3	-0.44	-0.46	0	0	0	0	0	0
7/3/2024 22:51	11804	FRAN_T1	0	0	0	0	0	0	-0.08	-0.16	1	1	0	1200	1200	0
7/3/2024 22:51	55101	WERT_T1	0	0	0	0	0	0	-3.64	-3.66	6	6	0	4800	4800	0
7/3/2024 22:51	56501	ROCK_T2	2	8	6	0.4	0.36	-0.04	-1.28	-1.3	0	0	0	0	0	0
7/3/2024 22:51	27605	PIRI_T2	3	0	-3	0.1	0	-0.1	0.7	0.7	0	0	0	0	0	0
7/3/2024 22:51	56803	BENV_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:51	56801	BENV_T1	7	7	0	1.3	0.9	-0.4	-1.6	-1.71	4	4	0	2400	2400	0
7/3/2024 22:51	58401	MORO_T1	0	0	0	0	0	0	-0.55	-0.58	1	1	0	600	600	0
7/3/2024 22:51	42201	SHEN_T2	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/3/2024 22:51	52403	GRPA_T2	2	2	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/3/2024 22:51	52404	GRPA_T2	1	0	-1	0.3	0	-0.3	-0.37	-0.09	0	0	0	0	0	0
7/3/2024 22:51	63304	GREE_T1	0	0	0	0	0	0	-1.41	-1.45	0	0	0	0	0	0
7/3/2024 22:51	52002	LING_T2	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
7/3/2024 22:51	56802	BENV_T2	1	1	0	0.2	0.1	-0.1	-1.96	-2.02	0	0	0	0	0	0
7/3/2024 22:51	52402	GRPA_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/3/2024 22:51	41902	REED_T1	3	3	0	0.3	0	-0.3	0.35	0.36	1	1	0	900	900	0
7/3/2024 22:51	46001	BERW_T1	0	0	0	0	0	0	0.99	0.93	0	0	0	0	0	0
7/3/2024 22:51	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/3/2024 22:52	53903	HALI_T2	2	2	0	0.2	0.65	0.45	0.03	0	0	0	0	0	0	0
7/3/2024 22:52	53902	HALI_T2	1	1	0	4.3	5.3	1	0	0	0	0	0	0	0	0
7/3/2024 22:52	59101	WALK_T2	0	0	0	0	0	0	0.91	0.8	2	2	0	1200	1200	0
7/3/2024 22:52	12802	MICK_T1	0	0	0	0	0	0	-1.01	-1.03	0	0	0	0	0	0
7/3/2024 22:52	42902	MIDD_T2	0	0	0	0	0	0	-0.57	-0.59	1	1	0	600	600	0
7/3/2024 22:52	42903	MIDD_T2	6	2	-4	0.42	1.05	0.63	0	0	0	0	0	0	0	0
7/3/2024 22:52	56501	ROCK_T2	2	8	6	0.4	0.36	-0.04	-1.3	-1.33	0	0	0	0	0	0
7/3/2024 22:52	46203	DANV_T2	0	0	0	0	0	0	-1.7	-1.72	0	0	0	0	0	0
7/3/2024 22:52	67402	WAKE_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
7/3/2024 22:52	56801	BENV_T1	7	7	0	1.3	0.9	-0.4	-0.43	-0.46	1	1	0	600	600	0
7/3/2024 22:52	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.57	-0.6	0	0	0	0	0	0
7/3/2024 22:52	46206	DANV_T2	2	3	1	0.55	1	0.45	0	0	0	0	0	0	0	0
7/3/2024 22:52	12701	MACU_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	1200	1200	0
7/3/2024 22:52	44801	EDAN_T2	1	8	7	0.7	0.5	-0.2	0.69	0.68	0	0	0	0	0	0
7/3/2024 22:52	56803	BENV_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:53	43304	WATS_T2	2	3	1	0.25	0	-0.25	-0.43	-0.45	0	0	0	0	0	0
7/3/2024 22:53	56801	BENV_T1	7	7	0	1.3	0.9	-0.4	-0.43	-0.46	1	1	0	600	600	0
7/3/2024 22:53	55101	WERT_T1	0	0	0	0	0	0	-1.83	-1.85	3	3	0	2400	2400	0
7/3/2024 22:53	46004	BERW_T2	0	1	1	0	0	0	0.05	0.04	0	0	0	0	0	0
7/3/2024 22:53	53903	HALI_T2	2	2	0	0.2	0.65	0.45	0	0	0	0	0	0	0	0
7/3/2024 22:53	53902	HALI_T2	1	1	0	4.3	5.3	1	-0.72	-0.74	0	0	0	0	0	0
7/3/2024 22:53	56803	BENV_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/3/2024 22:54	52002	LING_T2	0	0	0	0	0	0	0.47	0.41	0	0	0	0	0	0
7/3/2024 22:54	43402	BENT_T1	0	1	1	0	0	0	-0.85	-0.86	1	1	0	900	900	0
7/3/2024 22:54	53902	HALI_T2	1	1	0	4.3	5.3	1	0	0	0	0	0	0	0	0
7/3/2024 22:54	53903	HALI_T2	2	2	0	0.2	0.65	0.45	0.03	0	0	0	0	0	0	0
7/3/2024 22:56	45602	WOOL_T1	65	75	10	1.18	1.18	0	0.48	0.46	0	0	0	0	0	0
7/3/2024 23:01	43402	BENT_T1	0	1	1	0	0	0	-0.85	-0.86	1	1	0	900	900	0
7/3/2024 23:02	43402	BENT_T1	0	1	1	0	0	0	-0.85	-0.86	1	1	0	900	900	0
7/3/2024 23:09	61301	EARL_T1	0	0	0	0	0	0	-0.39	-0.39	1	1	0	900	900	0
7/3/2024 23:13	64201	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
7/3/2024 23:13	64204	KINZ_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
7/3/2024 23:13	64203	KINZ_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
7/3/2024 23:13	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.9	-0.94	0	0	0	0	0	0
7/3/2024 23:13	64202	KINZ_T1	3	1	-2	0.73	0.2	-0.53	0	0	0	0	0	0	0	0
7/3/2024 23:22	43402	BENT_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	900	900	0
7/3/2024 23:23	43402	BENT_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	900	900	0
7/3/2024 23:30	61301	EARL_T1	0	0	0	0	0	0	-0.39	-0.4	1	1	0	900	900	0
7/3/2024 23:30	13904	SEID_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
7/3/2024 23:31	61301	EARL_T1	0	0	0	0	0	0	-0.39	-0.4	1	1	0	900	900	0
7/3/2024 23:33	64201	KINZ_T1	1	4	3	1	0.43	-0.57	0	0	0	0	0	0	0	0
7/3/2024 23:33	64203	KINZ_T1	0	0	0	0	0	0	0.37	0.47	0	0	0	0	0	0
7/3/2024 23:33	64204	KINZ_T1	1	3	2	1.1	0.33	-0.77	0	0	0	0	0	0	0	0
7/3/2024 23:33	67605	WARW_T1	1	11	10	0.1	0.2	0.1	-0.94	-0.98	0	0	0	0	0	0
7/3/2024 23:33	64202	KINZ_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/3/2024 23:34	64203	KINZ_T1	0	0	0	0	0	0	0.37	0.47	0	0	0	0	0	0
7/3/2024 23:34	64202	KINZ_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/3/2024 23:34	64201	KINZ_T1	1	4	3	1	0.43	-0.57	0	0	0	0	0	0	0	0
7/3/2024 23:34	64204	KINZ_T1	1	3	2	1.1	0.33	-0.77	0	0	0	0	0	0	0	0
7/3/2024 23:34	67605	WARW_T1	1	11	10	0.1	0.2	0.1	-0.94	-0.98	0	0	0	0	0	0
7/3/2024 23:49	56501	ROCK_T2	133	246	113	0.26	0.3	0.04	0	0	0	0	0	0	0	0
7/3/2024 23:49	56504	ROCK_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
7/3/2024 23:51	61301	EARL_T1	0	0	0	0	0	0	-0.4	0.23	1	0	-1	900	0	-900
7/3/2024 23:52	61301	EARL_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
7/3/2024 23:55	64204	KINZ_T1	1	3	2	0.4	0.47	0.07	0	0	0	0	0	0	0	0
7/3/2024 23:55	67605	WARW_T1	3	15	12	0.2	0.25	0.05	-0.99	-1	0	0	0	0	0	0
7/3/2024 23:55	64201	KINZ_T1	1	4	3	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
7/3/2024 23:55	64202	KINZ_T1	0	3	3	0	0.53	0.53	0	0	0	0	0	0	0	0
7/3/2024 23:55	64203	KINZ_T1	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
7/3/2024 23:56	64201	KINZ_T1	1	4	3	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
7/3/2024 23:56	64204	KINZ_T1	1	3	2	0.4	0.47	0.07	0	0	0	0	0	0	0	0
7/3/2024 23:56	64203	KINZ_T1	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
7/3/2024 23:56	64202	KINZ_T1	0	3	3	0	0.53	0.53	0	0	0	0	0	0	0	0
7/3/2024 23:56	67605	WARW_T1	3	15	12	0.2	0.25	0.05	-0.99	-1	0	0	0	0	0	0
7/4/2024 0:05	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.88	1	1	0	900	900	0
7/4/2024 0:06	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.87	1	1	0	900	900	0
7/4/2024 0:16	64201	KINZ_T1	2	6	4	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
7/4/2024 0:16	64202	KINZ_T1	3	3	0	0.53	1.1	0.57	0	0	0	0	0	0	0	0
7/4/2024 0:16	64203	KINZ_T1	0	1	1	0	0.1	0.1	0.41	0.37	0	0	0	0	0	0
7/4/2024 0:16	64204	KINZ_T1	3	6	3	0.47	0.35	-0.12	0	0	0	0	0	0	0	0
7/4/2024 0:16	67605	WARW_T1	10	16	6	0.31	0.49	0.18	-1	-1.03	0	0	0	0	0	0
7/4/2024 0:17	64202	KINZ_T1	3	3	0	0.53	1.1	0.57	0	0	0	0	0	0	0	0
7/4/2024 0:17	67605	WARW_T1	10	16	6	0.31	0.49	0.18	-1	-1.03	0	0	0	0	0	0
7/4/2024 0:17	64204	KINZ_T1	3	6	3	0.47	0.35	-0.12	0	0	0	0	0	0	0	0
7/4/2024 0:17	64201	KINZ_T1	2	6	4	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
7/4/2024 0:17	64203	KINZ_T1	0	1	1	0	0.1	0.1	0.41	0.37	0	0	0	0	0	0
7/4/2024 0:26	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
7/4/2024 0:27	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
7/4/2024 0:37	64203	KINZ_T1	0	1	1	0	0.1	0.1	0.37	0.35	0	0	0	0	0	0
7/4/2024 0:37	64204	KINZ_T1	3	6	3	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
7/4/2024 0:37	67605	WARW_T1	16	17	1	0.48	0.57	0.09	-1.03	-1.08	0	0	0	0	0	0
7/4/2024 0:37	64202	KINZ_T1	3	0	-3	0.93	1.1	0.17	0	0	0	0	0	0	0	0
7/4/2024 0:37	64201	KINZ_T1	5	6	1	0.36	0.4	0.04	0	0	0	0	0	0	0	0
7/4/2024 0:38	64202	KINZ_T1	3	3	0	0.93	1.1	0.17	0	0	0	0	0	0	0	0
7/4/2024 0:38	67605	WARW_T1	16	17	1	0.48	0.57	0.09	-1.03	-1.08	0	0	0	0	0	0
7/4/2024 0:38	64203	KINZ_T1	0	1	1	0	0.1	0.1	0.37	0.35	0	0	0	0	0	0
7/4/2024 0:38	64201	KINZ_T1	5	6	1	0.36	0.4	0.04	0	0	0	0	0	0	0	0
7/4/2024 0:38	64204	KINZ_T1	3	6	3	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
7/4/2024 0:48	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.91	1	1	0	900	900	0
7/4/2024 0:49	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.91	1	1	0	900	900	0
7/4/2024 1:00	67605	WARW_T1	17	41	24	0.57	0.5	-0.07	-1.08	-1.06	0	0	0	0	0	0
7/4/2024 1:00	64203	KINZ_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
7/4/2024 1:00	64204	KINZ_T1	3	1	-2	0.47	0.6	0.13	0	0	0	0	0	0	0	0
7/4/2024 1:00	64202	KINZ_T1	3	3	0	0.83	0.43	-0.4	0	0	0	0	0	0	0	0
7/4/2024 1:00	64201	KINZ_T1	3	1	-2	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/4/2024 1:01	64203	KINZ_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
7/4/2024 1:01	64204	KINZ_T1	3	1	-2	0.47	0.6	0.13	0	0	0	0	0	0	0	0
7/4/2024 1:01	64201	KINZ_T1	3	1	-2	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/4/2024 1:01	64202	KINZ_T1	3	3	0	0.83	0.43	-0.4	0	0	0	0	0	0	0	0
7/4/2024 1:01	67605	WARW_T1	17	41	24	0.57	0.5	-0.07	-1.08	-1.06	0	0	0	0	0	0
7/4/2024 1:10	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.89	1	1	0	900	900	0
7/4/2024 1:11	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.89	1	1	0	900	900	0
7/4/2024 1:21	64204	KINZ_T1	1	1	0	0.4	1.3	0.9	0	0	0	0	0	0	0	0
7/4/2024 1:21	64203	KINZ_T1	0	0	0	0	0	0	0.35	0.27	0	0	0	0	0	0
7/4/2024 1:21	64201	KINZ_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
7/4/2024 1:21	64202	KINZ_T1	2	3	1	0.2	0.47	0.27	0	0	0	0	0	0	0	0
7/4/2024 1:22	64202	KINZ_T1	2	3	1	0.2	0.47	0.27	0	0	0	0	0	0	0	0
7/4/2024 1:22	64204	KINZ_T1	1	1	0	0.4	1.3	0.9	0	0	0	0	0	0	0	0
7/4/2024 1:22	64203	KINZ_T1	0	0	0	0	0	0	0.27	0.32	0	0	0	0	0	0
7/4/2024 1:22	64201	KINZ_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
7/4/2024 1:32	43402	BENT_T1	0	0	0	0	0	0	-0.89	-0.91	1	1	0	900	900	0
7/4/2024 1:33	43402	BENT_T1	0	0	0	0	0	0	-0.89	-0.91	1	1	0	900	900	0
7/4/2024 1:43	64204	KINZ_T1	1	1	0	0.6	1.3	0.7	0	0	0	0	0	0	0	0
7/4/2024 1:43	64202	KINZ_T1	3	3	0	0.43	0.8	0.37	0	0	0	0	0	0	0	0
7/4/2024 1:43	64201	KINZ_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/4/2024 1:43	64203	KINZ_T1	0	0	0	0	0	0	0.32	0.28	0	0	0	0	0	0
7/4/2024 1:44	64202	KINZ_T1	3	3	0	0.43	0.8	0.37	0	0	0	0	0	0	0	0
7/4/2024 1:44	64204	KINZ_T1	1	1	0	0.6	1.3	0.7	0	0	0	0	0	0	0	0
7/4/2024 1:44	64203	KINZ_T1	0	0	0	0	0	0	0.32	0.28	0	0	0	0	0	0
7/4/2024 1:44	64201	KINZ_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/4/2024 2:06	64203	KINZ_T1	0	0	0	0	0	0	0.28	0.33	0	0	0	0	0	0
7/4/2024 2:06	64204	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 2:06	64201	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 2:06	64202	KINZ_T1	3	3	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/4/2024 2:07	64201	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 2:07	64202	KINZ_T1	3	3	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/4/2024 2:07	64204	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 2:07	64203	KINZ_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
7/4/2024 2:16	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	900	900	0
7/4/2024 2:17	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	900	900	0
7/4/2024 2:39	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	900	900	0
7/4/2024 2:40	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	900	900	0
7/4/2024 3:01	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.91	1	1	0	900	900	0
7/4/2024 3:02	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.91	1	1	0	900	900	0
7/4/2024 3:07	21204	ECAR_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
7/4/2024 3:07	21206	ECAR_T2	1	1	0	8.1	8.2	0.1	-0.01	-0.02	0	0	0	0	0	0
7/4/2024 3:24	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
7/4/2024 3:25	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
7/4/2024 3:46	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.91	1	1	0	900	900	0
7/4/2024 3:47	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.91	1	1	0	900	900	0
7/4/2024 4:09	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.81	1	1	0	900	900	0
7/4/2024 4:10	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.81	1	1	0	900	900	0
7/4/2024 4:31	43402	BENT_T1	0	0	0	0	0	0	-0.81	-0.84	1	1	0	900	900	0
7/4/2024 4:32	43402	BENT_T1	0	0	0	0	0	0	-0.81	-0.84	1	1	0	900	900	0
7/4/2024 6:40	62105	ELAN_T1	0	80	80	0	0.16	0.16	0	0	0	0	0	0	0	0
7/4/2024 6:40	62106	ELAN_T1	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
7/4/2024 6:40	62103	ELAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/4/2024 6:40	62102	ELAN_T1	0	0	0	0	0	0	0.74	0.76	0	0	0	0	0	0
7/4/2024 6:40	62101	ELAN_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/4/2024 6:43	64501	LAVI_T1	0	0	0	0	0	0	-0.36	-0.33	0	0	0	0	0	0
7/4/2024 6:46	13501	MCMI_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
7/4/2024 6:47	48301	ORWI_T1	2	2	0	6	5.9	-0.1	-0.03	0.04	0	0	0	0	0	0
7/4/2024 6:48	16603	PONO_T2	0	0	0	0	0	0	0.13	0.13	1	1	0	1200	1200	0
7/4/2024 6:50	24901	WHHA_T1	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/4/2024 6:50	24902	WHHA_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/4/2024 6:52	67503	WEWI_T2	0	0	0	0	0	0	-0.17	0.05	0	0	0	0	0	0
7/4/2024 6:54	60801	BUCK_T1	272	264	-8	0.74	0.65	-0.09	-0.14	-0.12	0	0	0	0	0	0
7/4/2024 6:54	60803	BUCK_T1	51	47	-4	0.62	0.64	0.02	0	0	0	0	0	0	0	0
7/4/2024 6:55	55102	WERT_T2	0	0	0	0	0	0	-0.68	-0.67	1	1	0	600	600	0
7/4/2024 6:56	60801	BUCK_T1	272	264	-8	0.74	0.65	-0.09	-0.14	-0.12	0	0	0	0	0	0
7/4/2024 6:56	60803	BUCK_T1	51	47	-4	0.62	0.64	0.02	0	0	0	0	0	0	0	0
7/4/2024 6:57	60803	BUCK_T1	51	47	-4	0.62	0.64	0.02	0	0	0	0	0	0	0	0
7/4/2024 6:57	60801	BUCK_T1	272	264	-8	0.74	0.65	-0.09	-0.14	-0.12	0	0	0	0	0	0
7/4/2024 6:57	43402	BENT_T1	0	0	0	0	0	0	-0.84	-0.81	1	1	0	900	900	0
7/4/2024 6:59	63804	HEMP_T1	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
7/4/2024 6:59	63801	HEMP_T1	0	0	0	0	0	0	-0.15	-0.13	0	0	0	0	0	0
7/4/2024 7:04	65207	PRIN_T4	20	3	-17	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
7/4/2024 7:04	65206	PRIN_T4	9	1	-8	0.1	1.2	1.1	0	0	0	0	0	0	0	0
7/4/2024 7:04	67203	TEHI_T1	0	0	0	0	0	0	1.95	1.9	1	1	0	900	900	0
7/4/2024 7:04	65201	PRIN_T4	3	3	0	0.6	0.4	-0.2	0	0	1	1	0	600	600	0
7/4/2024 7:06	66504	SMAN_T2	0	0	0	0	0	0	-0.22	-0.28	0	0	0	0	0	0
7/4/2024 7:08	67203	TEHI_T1	0	0	0	0	0	0	1.9	1.89	1	1	0	900	900	0
7/4/2024 7:09	22002	BOHE_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
7/4/2024 7:09	22003	BOHE_T1	237	183	-54	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
7/4/2024 7:17	66302	MCGO_T2	0	0	0	0	0	0	-0.91	-0.86	0	0	0	0	0	0
7/4/2024 7:17	66303	MCGO_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/4/2024 7:21	67502	WEWI_T2	0	9	9	0	0.13	0.13	-1.26	-1.18	1	1	0	900	900	0
7/4/2024 7:23	67505	WEWI_T1	0	0	0	0	0	0	0.04	0.14	1	1	0	900	900	0
7/4/2024 7:24	67505	WEWI_T1	0	0	0	0	0	0	0.04	0.14	1	1	0	900	900	0
7/4/2024 7:26	63305	GREE_T1	0	4	4	0	0.15	0.15	-2.1	-2.09	1	1	0	900	900	0
7/4/2024 7:29	63305	GREE_T1	0	4	4	0	0.15	0.15	-2.1	-2.09	1	1	0	900	900	0
7/4/2024 7:31	64501	LAVI_T1	0	0	0	0	0	0	-0.64	-0.68	0	0	0	0	0	0
7/4/2024 7:32	40101	HUNT_T2	0	0	0	0	0	0	-0.65	-0.61	0	0	0	0	0	0
7/4/2024 7:35	52501	PROG_T1	0	0	0	0	0	0	0.11	0.11	1	1	0	300	300	0
7/4/2024 7:36	52501	PROG_T1	0	0	0	0	0	0	0.11	0.11	1	1	0	300	300	0
7/4/2024 7:37	67904	WNHO_T1	0	0	0	0	0	0	-1.06	-1.04	1	1	0	1200	1200	0
7/4/2024 7:39	60201	ATGL_T2	1	15	14	0.1	0.14	0.04	1.51	1.53	0	0	0	0	0	0
7/4/2024 7:39	67903	WNHO_T1	0	0	0	0	0	0	1.06	1.22	0	0	0	0	0	0
7/4/2024 7:41	43401	BENT_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 7:41	43402	BENT_T1	0	0	0	0	0	0	-0.84	-0.78	1	1	0	900	900	0
7/4/2024 7:41	40505	CRES_T1	3	3	0	5.63	5.8	0.17	0	0	0	0	0	0	0	0
7/4/2024 7:41	40504	CRES_T1	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
7/4/2024 7:43	56501	ROCK_T2	0	0	0	0	0	0	-0.5	-1.68	0	0	0	0	0	0
7/4/2024 7:44	40505	CRES_T1	3	3	0	5.63	5.8	0.17	0	0	0	0	0	0	0	0
7/4/2024 7:44	56501	ROCK_T2	0	0	0	0	0	0	-0.99	-3.37	0	0	0	0	0	0
7/4/2024 7:44	40504	CRES_T1	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
7/4/2024 7:46	64904	MILL_T1	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
7/4/2024 7:47	13303	ORVI_T1	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
7/4/2024 7:49	67605	WARW_T1	21	22	1	0.43	0.46	0.03	0	0	0	0	0	0	0	0
7/4/2024 7:49	67604	WARW_T1	0	0	0	0	0	0	0.04	0.09	0	0	0	0	0	0
7/4/2024 7:49	15204	SFAR_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
7/4/2024 7:50	15203	SFAR_T2	0	0	0	0	0	0	-1.1	-1.06	0	0	0	0	0	0
7/4/2024 7:50	40301	TAMA_T3	11	49	38	0.13	0.46	0.33	0	0	0	0	0	0	0	0
7/4/2024 7:50	24902	WHHA_T1	1	1	0	0.9	1	0.1	0.76	0.78	0	0	0	0	0	0
7/4/2024 7:50	40303	TAMA_T3	2	3	1	0.1	0.37	0.27	0	0	0	0	0	0	0	0
7/4/2024 7:50	67604	WARW_T1	0	0	0	0	0	0	0.04	0.09	0	0	0	0	0	0
7/4/2024 7:50	67605	WARW_T1	21	22	1	0.43	0.46	0.03	0	0	0	0	0	0	0	0
7/4/2024 7:50	40302	TAMA_T3	2	7	5	0.2	0.26	0.06	0.12	0.12	0	0	0	0	0	0
7/4/2024 7:50	15204	SFAR_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
7/4/2024 7:53	14601	SWHI_T1	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
7/4/2024 7:54	14601	SWHI_T1	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
7/4/2024 7:55	40505	CRES_T1	3	3	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
7/4/2024 7:55	24902	WHHA_T1	1	1	0	0.9	1	0.1	0.78	0.79	0	0	0	0	0	0
7/4/2024 7:55	40504	CRES_T1	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
7/4/2024 7:55	60802	BUCK_T2	51	60	9	0.3	0.26	-0.04	0.23	0.25	0	0	0	0	0	0
7/4/2024 7:57	60801	BUCK_T1	259	252	-7	0.62	0.63	0.01	-0.06	-0.06	0	0	0	0	0	0
7/4/2024 7:57	60803	BUCK_T1	54	39	-15	0.67	0.81	0.14	0	0	0	0	0	0	0	0
7/4/2024 8:00	43402	BENT_T1	0	0	0	0	0	0	-0.78	-0.79	1	1	0	900	900	0
7/4/2024 8:00	46602	LACR_T1	0	1	1	0	0	0	-0.78	-0.76	0	0	0	0	0	0
7/4/2024 8:01	43402	BENT_T1	0	0	0	0	0	0	-0.78	-0.79	1	1	0	900	900	0
7/4/2024 8:01	40101	HUNT_T2	0	0	0	0	0	0	-0.56	-0.52	0	0	0	0	0	0
7/4/2024 8:02	60801	BUCK_T1	245	184	-61	0.63	0.58	-0.05	-0.06	-0.06	0	0	0	0	0	0
7/4/2024 8:02	46801	HEPB_T2	3	3	0	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
7/4/2024 8:02	52403	GRPA_T2	3	0	-3	0.73	0	-0.73	-0.24	-0.25	0	0	0	0	0	0
7/4/2024 8:02	60803	BUCK_T1	39	34	-5	0.8	0.8	0	0	0	0	0	0	0	0	0
7/4/2024 8:02	46803	HEPB_T2	2	2	0	0.15	0.1	-0.05	0.39	0.37	0	0	0	0	0	0
7/4/2024 8:02	52402	GRPA_T2	0	4	4	0	0.47	0.47	0	0	0	0	0	0	0	0
7/4/2024 8:03	64902	MILL_T2	0	0	0	0	0	0	-1.01	-0.94	1	1	0	900	900	0
7/4/2024 8:04	17002	RIRO_T2	0	15	15	0	0.17	0.17	0.47	0.47	0	0	0	0	0	0
7/4/2024 8:04	40603	PIGR_T1	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
7/4/2024 8:04	40601	PIGR_T1	314	253	-61	0.47	0.37	-0.1	0	0	0	0	0	0	0	0
7/4/2024 8:05	24205	PROV_T3	41	13	-28	0.25	0.4	0.15	0	0	0	0	0	0	0	0
7/4/2024 8:05	24204	PROV_T3	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
7/4/2024 8:05	24201	PROV_T3	7	6	-1	0.99	1.2	0.21	-1.14	-1.1	1	1	0	1200	1200	0
7/4/2024 8:06	67605	WARW_T1	22	8	-14	0.46	0.25	-0.21	0	0	0	0	0	0	0	0
7/4/2024 8:06	67604	WARW_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
7/4/2024 8:07	67906	WNHO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 8:07	67901	WNHO_T2	27	5	-22	0.17	0.12	-0.05	0.19	0.21	0	0	0	0	0	0
7/4/2024 8:09	56802	BENV_T2	0	1	1	0	0.4	0.4	-0.41	-0.38	0	0	0	0	0	0
7/4/2024 8:11	56802	BENV_T2	0	1	1	0	0.4	0.4	-0.41	-0.38	0	0	0	0	0	0
7/4/2024 8:15	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
7/4/2024 8:15	23201	HIRU_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 8:19	46101	MACI_T2	0	0	0	0	0	0	-0.01	1.27	1	0	-1	1200	0	-1200
7/4/2024 8:20	43202	MVIL_T2	10	7	-3	0.19	0.14	-0.05	-0.48	-0.42	0	0	0	0	0	0
7/4/2024 8:20	43402	BENT_T1	0	0	0	0	0	0	-0.79	-0.77	1	1	0	900	900	0
7/4/2024 8:21	43202	MVIL_T2	10	7	-3	0.19	0.14	-0.05	-0.42	-0.47	0	0	0	0	0	0
7/4/2024 8:21	43402	BENT_T1	0	0	0	0	0	0	-0.77	-0.78	1	1	0	900	900	0
7/4/2024 8:23	58001	WCAR_T1	4	5	1	1.25	1.4	0.15	0	0	0	0	0	0	0	0
7/4/2024 8:23	58003	WCAR_T1	1	8	7	1.4	0.38	-1.02	0.98	0.97	0	0	0	0	0	0
7/4/2024 8:25	62104	ELAN_T1	0	0	0	0	0	0	0.65	0.7	1	1	0	1200	1200	0
7/4/2024 8:26	62104	ELAN_T1	0	0	0	0	0	0	0.65	0.7	1	1	0	1200	1200	0
7/4/2024 8:27	41301	FISH_T1	2	2	0	0.95	1.2	0.25	-0.1	-0.08	0	0	0	0	0	0
7/4/2024 8:28	41301	FISH_T1	2	2	0	0.95	1.2	0.25	-0.1	-0.08	0	0	0	0	0	0
7/4/2024 8:28	22904	HARW_T1	0	0	0	0	0	0	-0.57	-0.61	0	0	0	0	0	0
7/4/2024 8:30	13905	SEID_T1	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
7/4/2024 8:32	58402	MORO_T1	0	0	0	0	0	0	-0.12	-0.06	2	2	0	1500	1500	0
7/4/2024 8:32	65401	MARI_T1	0	0	0	0	0	0	0.01	0.07	0	0	0	0	0	0
7/4/2024 8:34	67605	WARW_T1	2	1	-1	0.25	0.1	-0.15	-0.86	-0.82	0	0	0	0	0	0
7/4/2024 8:36	64204	KINZ_T1	1	1	0	1.2	0.5	-0.7	0	0	0	0	0	0	0	0
7/4/2024 8:36	15702	TANN_T2	0	0	0	0	0	0	-0.35	-0.32	0	0	0	0	0	0
7/4/2024 8:36	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 8:36	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
7/4/2024 8:36	64203	KINZ_T1	0	0	0	0	0	0	0.79	0.8	0	0	0	0	0	0
7/4/2024 8:36	64201	KINZ_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
7/4/2024 8:37	45602	WOOL_T1	51	186	135	0.5	0.83	0.33	0.33	0.35	0	0	0	0	0	0
7/4/2024 8:39	45602	WOOL_T1	51	186	135	0.5	0.83	0.33	0.33	0.35	0	0	0	0	0	0
7/4/2024 8:40	46002	BERW_T2	0	0	0	0	0	0	-1.08	-1.05	1	1	0	900	900	0
7/4/2024 8:40	45602	WOOL_T1	51	186	135	0.5	0.83	0.33	0.33	0.35	0	0	0	0	0	0
7/4/2024 8:40	59201	THOM_T1	18	17	-1	0.39	0.26	-0.13	0	0	0	0	0	0	0	0
7/4/2024 8:40	15702	TANN_T2	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
7/4/2024 8:40	59202	THOM_T1	104	32	-72	0.22	0.26	0.04	0	0	0	0	0	0	0	0
7/4/2024 8:40	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
7/4/2024 8:47	67605	WARW_T1	1	0	-1	0.1	0	-0.1	-1.65	-1.68	0	0	0	0	0	0
7/4/2024 8:50	67605	WARW_T1	1	0	-1	0.1	0	-0.1	-0.82	-0.84	0	0	0	0	0	0
7/4/2024 8:51	14403	SSLA_T1	0	0	0	0	0	0	0.99	1.03	0	0	0	0	0	0
7/4/2024 8:51	14404	SSLA_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
7/4/2024 8:53	14404	SSLA_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
7/4/2024 8:53	56802	BENV_T2	0	1	1	0	0.6	0.6	-0.4	-0.4	0	0	0	0	0	0
7/4/2024 8:53	14403	SSLA_T1	0	0	0	0	0	0	0.99	1.03	0	0	0	0	0	0
7/4/2024 8:54	67605	WARW_T1	1	0	-1	0.1	0	-0.1	-0.84	-0.97	0	0	0	0	0	0
7/4/2024 8:54	56802	BENV_T2	0	1	1	0	0.6	0.6	-0.4	-0.4	0	0	0	0	0	0
7/4/2024 8:55	67605	WARW_T1	1	0	-1	0.1	0	-0.1	-0.84	-0.97	0	0	0	0	0	0
7/4/2024 8:55	56802	BENV_T2	0	1	1	0	0.6	0.6	-0.4	-0.4	0	0	0	0	0	0
7/4/2024 8:56	56802	BENV_T2	0	1	1	0	0.6	0.6	-0.4	-0.4	0	0	0	0	0	0
7/4/2024 8:59	47001	HUGH_T2	3	3	0	7.3	7.47	0.17	-0.44	-0.38	0	0	0	0	0	0
7/4/2024 9:00	25402	LAHA_T2	0	0	0	0	0	0	-0.67	-0.53	0	0	0	0	0	0
7/4/2024 9:02	47001	HUGH_T2	3	3	0	7.47	7.33	-0.14	-0.44	-0.38	0	0	0	0	0	0
7/4/2024 9:03	65604	QVIL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 9:03	65601	QVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 9:03	65603	QVIL_T2	2	0	-2	0.1	0	-0.1	0.43	0.44	0	0	0	0	0	0
7/4/2024 9:04	47403	PENS_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
7/4/2024 9:04	47401	PENS_T1	2	2	0	0.45	0.2	-0.25	1.14	0.11	0	0	0	0	0	0
7/4/2024 9:05	65604	QVIL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 9:05	65601	QVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 9:05	65603	QVIL_T2	2	0	-2	0.1	0	-0.1	0.43	0.44	0	0	0	0	0	0
7/4/2024 9:06	47403	PENS_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
7/4/2024 9:06	43402	BENT_T1	0	0	0	0	0	0	-0.78	-0.75	1	1	0	900	900	0
7/4/2024 9:06	43401	BENT_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/4/2024 9:06	47401	PENS_T1	2	2	0	0.45	0.2	-0.25	0.11	0.08	0	0	0	0	0	0
7/4/2024 9:07	65601	QVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 9:07	43401	BENT_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/4/2024 9:07	43402	BENT_T1	0	0	0	0	0	0	-0.78	-0.75	1	1	0	900	900	0
7/4/2024 9:07	65604	QVIL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 9:07	65603	QVIL_T2	2	0	-2	0.1	0	-0.1	0.44	0.48	0	0	0	0	0	0
7/4/2024 9:08	47403	PENS_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
7/4/2024 9:08	47401	PENS_T1	2	2	0	0.45	0.2	-0.25	0.11	0.08	0	0	0	0	0	0
7/4/2024 9:10	22002	BOHE_T1	0	0	0	0	0	0	0.49	0.58	0	0	0	0	0	0
7/4/2024 9:10	22003	BOHE_T1	26	106	80	0.14	0.21	0.07	0	0	0	0	0	0	0	0
7/4/2024 9:11	56802	BENV_T2	0	0	0	0	0	0	-0.4	-0.34	0	0	0	0	0	0
7/4/2024 9:13	22901	HARW_T1	0	0	0	0	0	0	-0.57	-0.6	1	1	0	1200	1200	0
7/4/2024 9:15	13503	MCMI_T2	0	0	0	0	0	0	0.06	0.13	0	0	0	0	0	0
7/4/2024 9:17	22901	HARW_T1	0	0	0	0	0	0	-0.57	-0.6	1	1	0	1200	1200	0
7/4/2024 9:19	41902	REED_T1	0	3	3	0	0	0	1.27	1.34	0	0	0	0	0	0
7/4/2024 9:22	41902	REED_T1	0	3	3	0	0	0	1.34	1.32	0	0	0	0	0	0
7/4/2024 9:24	66001	RHEE_T2	0	0	0	0	0	0	-2.2	-0.41	4	2	-2	4200	1800	-2400
7/4/2024 9:26	66001	RHEE_T2	0	0	0	0	0	0	-1.1	-0.2	2	1	-1	2100	900	-1200
7/4/2024 9:29	43401	BENT_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/4/2024 9:29	43402	BENT_T1	0	0	0	0	0	0	-0.75	-0.76	1	1	0	900	900	0
7/4/2024 9:30	43401	BENT_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/4/2024 9:30	43202	MVIL_T2	16	53	37	0.23	0.44	0.21	-0.34	-0.36	0	0	0	0	0	0
7/4/2024 9:30	43402	BENT_T1	0	0	0	0	0	0	-0.75	-0.76	1	1	0	900	900	0
7/4/2024 9:32	46302	ROHR_T1	3	7	4	2.23	1.08	-1.15	0.35	0.36	0	0	0	0	0	0
7/4/2024 9:32	46301	ROHR_T1	142	154	12	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
7/4/2024 9:33	65207	PRIN_T4	2	2	0	0.5	0.65	0.15	0	0	2	2	0	1800	1800	0
7/4/2024 9:33	46301	ROHR_T1	142	154	12	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
7/4/2024 9:33	65201	PRIN_T4	3	3	0	0.5	0.67	0.17	0	0	0	0	0	0	0	0
7/4/2024 9:33	46302	ROHR_T1	3	7	4	2.23	1.08	-1.15	0.35	0.36	0	0	0	0	0	0
7/4/2024 9:34	48302	ORWI_T2	2	1	-1	0.25	0.2	-0.05	0.25	0.29	0	0	0	0	0	0
7/4/2024 9:34	13502	MCMI_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/4/2024 9:34	13501	MCMI_T1	0	0	0	0	0	0	0.26	0.3	0	0	0	0	0	0
7/4/2024 9:35	50701	SMEC_T1	0	0	0	0	0	0	-0.21	-0.13	0	0	0	0	0	0
7/4/2024 9:36	44601	SALE_T2	1	0	-1	0.1	0	-0.1	0.1	0.1	0	0	0	0	0	0
7/4/2024 9:36	50701	SMEC_T1	0	0	0	0	0	0	-0.21	-0.13	0	0	0	0	0	0
7/4/2024 9:38	44601	SALE_T2	1	0	-1	0.1	0	-0.1	0.1	0.1	0	0	0	0	0	0
7/4/2024 9:42	56501	ROCK_T2	1	3	2	0.6	1.65	1.05	-0.17	-1.41	0	0	0	0	0	0
7/4/2024 9:43	56501	ROCK_T2	1	3	2	0.6	1.65	1.05	-0.17	-1.41	0	0	0	0	0	0
7/4/2024 9:45	56501	ROCK_T2	2	3	1	1.95	0.7	-1.25	-0.17	-1.41	0	0	0	0	0	0
7/4/2024 9:45	20601	GRWO_T2	0	0	0	0	0	0	0.76	-0.16	0	0	0	0	0	0
7/4/2024 9:46	62106	ELAN_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
7/4/2024 9:46	56501	ROCK_T2	2	3	1	1.95	0.7	-1.25	-0.17	-1.41	0	0	0	0	0	0
7/4/2024 9:54	59202	THOM_T1	3	10	7	0.17	0.25	0.08	0	0	0	0	0	0	0	0
7/4/2024 9:54	59201	THOM_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
7/4/2024 9:59	63403	HONY_T2	0	0	0	0	0	0	0.45	0.11	0	0	0	0	0	0
7/4/2024 10:00	40603	PIGR_T1	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
7/4/2024 10:00	40505	CRES_T1	3	3	0	4.2	4.33	0.13	0.86	0.87	0	0	0	0	0	0
7/4/2024 10:00	58003	WCAR_T1	4	1	-3	0.58	1	0.42	0	0	0	0	0	0	0	0
7/4/2024 10:00	24801	VALM_T1	0	0	0	0	0	0	-0.1	-0.04	0	0	0	0	0	0
7/4/2024 10:00	40601	PIGR_T1	19	21	2	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
7/4/2024 10:00	14403	SSLA_T1	0	0	0	0	0	0	1.17	1.25	0	0	0	0	0	0
7/4/2024 10:00	14404	SSLA_T1	1	1	0	5.1	4.8	-0.3	0	0	0	0	0	0	0	0
7/4/2024 10:00	24204	PROV_T3	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
7/4/2024 10:00	24201	PROV_T3	2	2	0	3.6	3.6	0	-0.99	-0.93	1	1	0	1200	1200	0
7/4/2024 10:00	21203	ECAR_T1	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
7/4/2024 10:00	65603	QIVL_T2	0	0	0	0	0	0	1.56	1.73	0	0	0	0	0	0
7/4/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
7/4/2024 10:00	58001	WCAR_T1	4	4	0	0.88	0.8	-0.08	0.18	0.21	0	0	0	0	0	0
7/4/2024 10:00	40602	PIGR_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/4/2024 10:00	24205	PROV_T3	27	12	-15	0.33	0.43	0.1	0	0	0	0	0	0	0	0
7/4/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
7/4/2024 10:02	43402	BENT_T1	0	1	1	0	0.2	0.2	-0.71	-0.7	1	1	0	900	900	0
7/4/2024 10:02	43401	BENT_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/4/2024 10:06	59101	WALK_T2	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
7/4/2024 10:06	59102	WALK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 10:06	67503	WEWI_T2	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
7/4/2024 10:07	67201	TEHI_T1	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/4/2024 10:07	59102	WALK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 10:07	67203	TEHI_T1	0	0	0	0	0	0	1.95	2.04	1	1	0	900	900	0
7/4/2024 10:07	59101	WALK_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
7/4/2024 10:08	67901	WNHO_T2	0	22	22	0	0.2	0.2	0.22	0.21	0	0	0	0	0	0
7/4/2024 10:08	56802	BENV_T2	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
7/4/2024 10:09	14403	SSLA_T1	0	0	0	0	0	0	1.25	1.3	0	0	0	0	0	0
7/4/2024 10:09	29402	BELT_T1	1	1	0	8.9	8.8	-0.1	0	0	0	0	0	0	0	0
7/4/2024 10:09	59202	THOM_T1	10	5	-5	0.24	0.3	0.06	0	0	0	0	0	0	0	0
7/4/2024 10:09	59201	THOM_T1	3	2	-1	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
7/4/2024 10:09	56802	BENV_T2	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
7/4/2024 10:09	14404	SSLA_T1	1	1	0	5.1	4.8	-0.3	0	0	0	0	0	0	0	0
7/4/2024 10:09	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 10:10	56802	BENV_T2	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
7/4/2024 10:10	10602	BLGL_T2	0	0	0	0	0	0	0.5	0.53	0	0	0	0	0	0
7/4/2024 10:10	59201	THOM_T1	3	2	-1	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
7/4/2024 10:10	59202	THOM_T1	10	5	-5	0.24	0.3	0.06	0	0	0	0	0	0	0	0
7/4/2024 10:11	56801	BENV_T1	11	3	-8	0.45	0.23	-0.22	-0.33	-0.27	1	1	0	600	600	0
7/4/2024 10:12	56802	BENV_T2	0	0	0	0	0	0	-0.56	-0.59	0	0	0	0	0	0
7/4/2024 10:14	60801	BUCK_T1	4	1	-3	0.1	0.2	0.1	0.05	0.09	0	0	0	0	0	0
7/4/2024 10:14	60803	BUCK_T1	13	14	1	0.46	0.47	0.01	0	0	0	0	0	0	0	0
7/4/2024 10:15	20603	GRWO_T2	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
7/4/2024 10:15	65502	MOJO_T2	0	0	0	0	0	0	-0.4	-0.43	0	0	0	0	0	0
7/4/2024 10:15	40101	HUNT_T2	5	13	8	0.62	0.52	-0.1	-0.32	-0.29	0	0	0	0	0	0
7/4/2024 10:17	42902	MIDD_T2	4	3	-1	0.25	0.25	0	-0.34	-0.21	1	0	-1	600	0	-600
7/4/2024 10:17	42903	MIDD_T2	2	2	0	1.55	1.65	0.1	0	0	0	0	0	0	0	0
7/4/2024 10:18	44203	POIN_T2	7	7	0	3.29	3.78	0.49	0.46	0.49	1	1	0	900	900	0
7/4/2024 10:18	47401	PENS_T1	3	5	2	1.13	0.7	-0.43	0.26	0.29	0	0	0	0	0	0
7/4/2024 10:18	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 10:18	40101	HUNT_T2	5	13	8	0.62	0.52	-0.1	-0.32	-0.29	0	0	0	0	0	0
7/4/2024 10:18	65502	MOJO_T2	0	0	0	0	0	0	-0.4	-0.43	0	0	0	0	0	0
7/4/2024 10:18	65401	MARI_T1	0	6	6	0	0	0	0.29	0.37	0	0	0	0	0	0
7/4/2024 10:18	40602	PIGR_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
7/4/2024 10:18	47403	PENS_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
7/4/2024 10:18	40601	PIGR_T1	20	12	-8	0.2	0.23	0.03	0.08	0.06	0	0	0	0	0	0
7/4/2024 10:19	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 10:19	60801	BUCK_T1	1	1	0	0.1	0.6	0.5	0.05	0.09	0	0	0	0	0	0
7/4/2024 10:19	44601	SALE_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
7/4/2024 10:19	42902	MIDD_T2	4	3	-1	0.25	0.25	0	-0.34	-0.21	1	0	-1	600	0	-600
7/4/2024 10:19	47403	PENS_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
7/4/2024 10:19	47401	PENS_T1	3	5	2	1.13	0.7	-0.43	0.26	0.29	0	0	0	0	0	0
7/4/2024 10:19	42903	MIDD_T2	2	2	0	1.55	1.65	0.1	0	0	0	0	0	0	0	0
7/4/2024 10:19	60803	BUCK_T1	14	14	0	0.47	0.37	-0.1	0	0	0	0	0	0	0	0
7/4/2024 10:20	15702	TANN_T2	0	0	0	0	0	0	-0.16	-0.12	0	0	0	0	0	0
7/4/2024 10:20	47403	PENS_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
7/4/2024 10:20	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 10:20	55405	SHER_T1	6	1	-5	0.5	0.1	-0.4	0.15	0.16	0	0	0	0	0	0
7/4/2024 10:20	15703	TANN_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
7/4/2024 10:20	47401	PENS_T1	3	5	2	1.13	0.7	-0.43	0.26	0.29	0	0	0	0	0	0
7/4/2024 10:20	44601	SALE_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
7/4/2024 10:21	59202	THOM_T1	5	2	-3	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
7/4/2024 10:21	58003	WCAR_T1	1	2	1	0.7	0.55	-0.15	1.14	1.14	0	0	0	0	0	0
7/4/2024 10:21	48302	ORWI_T2	1	2	1	0.2	0.4	0.2	0.31	-0.3	0	0	0	0	0	0
7/4/2024 10:21	59101	WALK_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
7/4/2024 10:21	58001	WCAR_T1	4	4	0	0.28	0.8	0.52	0	0	0	0	0	0	0	0
7/4/2024 10:21	59201	THOM_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/4/2024 10:22	24902	WHHA_T1	7	18	11	0.46	0.68	0.22	0.89	0.91	0	0	0	0	0	0
7/4/2024 10:22	59101	WALK_T2	0	0	0	0	0	0	0.1	0.19	0	0	0	0	0	0
7/4/2024 10:23	56801	BENV_T1	3	2	-1	0.23	0.1	-0.13	-0.27	-0.26	1	1	0	600	600	0
7/4/2024 10:24	24902	WHHA_T1	7	18	11	0.46	0.68	0.22	0.89	0.91	0	0	0	0	0	0
7/4/2024 10:24	45602	WOOL_T1	65	66	1	1.5	1.5	0	0.63	0.63	0	0	0	0	0	0
7/4/2024 10:24	56801	BENV_T1	3	2	-1	0.23	0.1	-0.13	-0.27	-0.26	1	1	0	600	600	0
7/4/2024 10:25	58003	WCAR_T1	1	2	1	0.7	0.55	-0.15	1.14	1.14	0	0	0	0	0	0
7/4/2024 10:25	11104	EGYP_T1	1	3	2	0.6	0	-0.6	1.14	1.16	0	0	0	0	0	0
7/4/2024 10:25	11101	EGYP_T1	1	4	3	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
7/4/2024 10:25	61703	ELIZ_T1	0	0	0	0	0	0	-6.22	-5.95	6	6	0	6300	6300	0
7/4/2024 10:25	15702	TANN_T2	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
7/4/2024 10:25	59101	WALK_T2	0	0	0	0	0	0	0.05	0.1	0	0	0	0	0	0
7/4/2024 10:25	45602	WOOL_T1	65	66	1	1.5	1.5	0	0.63	0.63	0	0	0	0	0	0
7/4/2024 10:25	44801	EDAN_T2	2	8	6	0.7	1.3	0.6	0.87	0.83	0	0	0	0	0	0
7/4/2024 10:25	15703	TANN_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
7/4/2024 10:25	61701	ELIZ_T1	1	1	0	3.2	2.9	-0.3	0	0	0	0	0	0	0	0
7/4/2024 10:25	58001	WCAR_T1	4	4	0	0.28	0.8	0.52	0	0	0	0	0	0	0	0
7/4/2024 10:26	59101	WALK_T2	0	0	0	0	0	0	0.05	0.1	0	0	0	0	0	0
7/4/2024 10:27	61701	ELIZ_T1	1	1	0	3.2	2.9	-0.3	0	0	0	0	0	0	0	0
7/4/2024 10:27	67605	WARW_T1	0	1	1	0	0.6	0.6	-0.7	-0.65	0	0	0	0	0	0
7/4/2024 10:27	60201	ATGL_T2	0	0	0	0	0	0	0.81	0.92	0	0	0	0	0	0
7/4/2024 10:27	61703	ELIZ_T1	0	0	0	0	0	0	-2.07	-1.98	2	2	0	2100	2100	0
7/4/2024 10:27	45602	WOOL_T1	65	66	1	1.5	1.5	0	0.63	0.63	0	0	0	0	0	0
7/4/2024 10:28	46803	HEPB_T2	3	13	10	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
7/4/2024 10:28	46801	HEPB_T2	3	22	19	0.83	0.34	-0.49	0.09	0.12	0	0	0	0	0	0
7/4/2024 10:28	61701	ELIZ_T1	1	1	0	3.2	2.9	-0.3	0	0	0	0	0	0	0	0
7/4/2024 10:28	61703	ELIZ_T1	0	0	0	0	0	0	-2.07	-1.98	2	2	0	2100	2100	0
7/4/2024 10:29	11101	EGYP_T1	1	4	3	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
7/4/2024 10:29	63501	HEID_TBK1-2	1	1	0	0.1	0.1	0	0.34	0.43	1	1	0	900	900	0
7/4/2024 10:29	11104	EGYP_T1	1	3	2	0.6	0	-0.6	1.14	1.16	0	0	0	0	0	0
7/4/2024 10:31	46803	HEPB_T2	2	13	11	0.35	0.31	-0.04	0.5	0.49	0	0	0	0	0	0
7/4/2024 10:31	46801	HEPB_T2	3	22	19	0.97	0.34	-0.63	0	0	0	0	0	0	0	0
7/4/2024 10:32	65501	MOJO_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
7/4/2024 10:32	65001	NEFF_T2	0	0	0	0	0	0	-0.74	-0.62	1	1	0	1200	1200	0
7/4/2024 10:32	46801	HEPB_T2	3	22	19	0.97	0.34	-0.63	0.09	0.12	0	0	0	0	0	0
7/4/2024 10:32	46803	HEPB_T2	2	13	11	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
7/4/2024 10:33	41902	REED_T1	0	0	0	0	0	0	0.59	0.53	1	1	0	900	900	0
7/4/2024 10:33	41901	REED_T1	6	1	-5	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
7/4/2024 10:35	41901	REED_T1	6	1	-5	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
7/4/2024 10:35	41902	REED_T1	0	0	0	0	0	0	0.59	0.53	1	1	0	900	900	0
7/4/2024 10:35	65205	PRIN_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
7/4/2024 10:36	67602	WARW_T2	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
7/4/2024 10:38	67804	WLAN_T1	1	3	2	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/4/2024 10:38	67901	WNHO_T2	22	56	34	0.2	0.36	0.16	0.24	0.23	0	0	0	0	0	0
7/4/2024 10:38	67805	WLAN_T1	0	0	0	0	0	0	-1.03	-0.96	0	0	0	0	0	0
7/4/2024 10:38	67803	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 10:38	67902	WNHO_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/4/2024 10:41	58402	MORO_T1	0	0	0	0	0	0	-0.74	-0.68	3	3	0	2400	2400	0
7/4/2024 10:41	56501	ROCK_T2	2	4	2	0.55	0.33	-0.22	-1.28	-1.27	0	0	0	0	0	0
7/4/2024 10:41	56503	ROCK_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/4/2024 10:42	56501	ROCK_T2	2	4	2	0.55	0.33	-0.22	-2.57	-2.54	0	0	0	0	0	0
7/4/2024 10:42	56503	ROCK_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/4/2024 10:43	56501	ROCK_T2	2	4	2	0.55	0.33	-0.22	-1.28	-1.27	0	0	0	0	0	0
7/4/2024 10:43	61702	ELIZ_T2	0	0	0	0	0	0	-1.38	-1.35	2	2	0	1500	1500	0
7/4/2024 10:43	56503	ROCK_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/4/2024 10:44	56501	ROCK_T2	2	4	2	0.55	0.33	-0.22	-1.28	-1.27	0	0	0	0	0	0
7/4/2024 10:44	56503	ROCK_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/4/2024 10:45	46301	ROHR_T1	91	105	14	0.26	0.28	0.02	0	0	0	0	0	0	0	0
7/4/2024 10:45	46302	ROHR_T1	5	8	3	1.2	0.99	-0.21	0.43	0.42	0	0	0	0	0	0
7/4/2024 10:46	46301	ROHR_T1	91	105	14	0.26	0.28	0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/4/2024 10:46	56501	ROCK_T2	3	3	0	0.4	0.47	0.07	-1.28	-1.27	0	0	0	0	0	0
7/4/2024 10:46	45702	LIND_T2	2	3	1	0.85	1.9	1.05	0.12	0.2	0	0	0	0	0	0
7/4/2024 10:46	44702	MUNC_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/4/2024 10:46	44703	MUNC_T2	0	0	0	0	0	0	1.19	1.18	0	0	0	0	0	0
7/4/2024 10:46	56503	ROCK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/4/2024 10:46	46302	ROHR_T1	5	8	3	1.2	0.99	-0.21	0.43	0.42	0	0	0	0	0	0
7/4/2024 10:47	64701	LITI_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 10:47	43202	MVIL_T2	41	37	-4	0.28	0.26	-0.02	-0.71	-0.69	0	0	0	0	0	0
7/4/2024 10:47	64704	LITI_T1	0	0	0	0	0	0	0.33	0.37	1	1	0	600	600	0
7/4/2024 10:48	64101	REFR_T1	10	11	1	1.17	0.76	-0.41	0.55	0.58	0	0	0	0	0	0
7/4/2024 10:49	46301	ROHR_T1	91	105	14	0.26	0.28	0.02	0.43	0.43	0	0	0	0	0	0
7/4/2024 10:49	43202	MVIL_T2	41	37	-4	0.28	0.26	-0.02	-0.35	-0.34	0	0	0	0	0	0
7/4/2024 10:49	64101	REFR_T1	10	11	1	1.17	0.76	-0.41	0.55	0.58	0	0	0	0	0	0
7/4/2024 10:49	46302	ROHR_T1	5	8	3	1.2	0.99	-0.21	0	0	0	0	0	0	0	0
7/4/2024 10:50	46301	ROHR_T1	91	105	14	0.26	0.28	0.02	0.43	0.43	0	0	0	0	0	0
7/4/2024 10:50	46302	ROHR_T1	5	8	3	1.2	0.99	-0.21	0	0	0	0	0	0	0	0
7/4/2024 10:50	64101	REFR_T1	10	11	1	1.17	0.76	-0.41	1.64	1.74	0	0	0	0	0	0
7/4/2024 10:50	43202	MVIL_T2	41	37	-4	0.28	0.26	-0.02	-0.35	-0.34	0	0	0	0	0	0
7/4/2024 10:51	64101	REFR_T1	10	11	1	1.17	0.76	-0.41	1.16	1.2	0	0	0	0	0	0
7/4/2024 10:52	64101	REFR_T1	10	11	1	1.17	0.76	-0.41	1.16	1.2	0	0	0	0	0	0
7/4/2024 10:55	60803	BUCK_T1	14	12	-2	0.35	0.27	-0.08	0	0	0	0	0	0	0	0
7/4/2024 10:55	60801	BUCK_T1	1	1	0	0.6	0.1	-0.5	0.09	0.09	0	0	0	0	0	0
7/4/2024 10:56	63305	GREE_T1	3	0	-3	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/4/2024 10:56	63304	GREE_T1	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
7/4/2024 10:58	63305	GREE_T1	3	0	-3	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/4/2024 10:58	63304	GREE_T1	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
7/4/2024 11:01	20401	ASHF_T2	2	4	2	1	0.7	-0.3	0	0	0	0	0	0	0	0
7/4/2024 11:01	20402	ASHF_T2	3	2	-1	0.57	0	-0.57	0	0	0	0	0	0	0	0
7/4/2024 11:01	20403	ASHF_T2	0	1	1	0	0.2	0.2	0.61	0.68	0	0	0	0	0	0
7/4/2024 11:02	43202	MVIL_T2	37	15	-22	0.25	0.25	0	-0.34	-0.36	0	0	0	0	0	0
7/4/2024 11:02	67601	WARW_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
7/4/2024 11:02	67605	WARW_T1	1	1	0	0.8	0.4	-0.4	-0.83	-0.76	0	0	0	0	0	0
7/4/2024 11:04	67605	WARW_T1	1	1	0	0.8	0.4	-0.4	-1.66	-1.52	0	0	0	0	0	0
7/4/2024 11:05	67603	WARW_T1	0	0	0	0	0	0	0.28	0.33	0	0	0	0	0	0
7/4/2024 11:05	67605	WARW_T1	1	1	0	0.8	0.4	-0.4	-1.66	-1.52	0	0	0	0	0	0
7/4/2024 11:06	67603	WARW_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
7/4/2024 11:06	67605	WARW_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
7/4/2024 11:09	60201	ATGL_T2	0	0	0	0	0	0	1.04	0.96	0	0	0	0	0	0
7/4/2024 11:12	52402	GRPA_T2	23	89	66	0.66	0.73	0.07	0	0	0	0	0	0	0	0
7/4/2024 11:12	52401	GRPA_T2	15	33	18	0.37	0.73	0.36	0	0	0	0	0	0	0	0
7/4/2024 11:12	52403	GRPA_T2	62	118	56	1.01	1.31	0.3	0.11	0.19	0	0	0	0	0	0
7/4/2024 11:12	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 11:15	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 11:15	52401	GRPA_T2	33	16	-17	0.44	0.9	0.46	-0.12	-0.07	0	0	0	0	0	0
7/4/2024 11:15	52403	GRPA_T2	78	139	61	1.32	0.78	-0.54	0	0	0	0	0	0	0	0
7/4/2024 11:15	52402	GRPA_T2	12	89	77	0.73	0.81	0.08	0	0	0	0	0	0	0	0
7/4/2024 11:16	13503	MCMI_T2	0	101	101	0	0.27	0.27	0.21	-0.68	0	0	0	0	0	0
7/4/2024 11:16	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 11:16	20402	ASHF_T2	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/4/2024 11:16	20401	ASHF_T2	4	2	-2	0.73	0.7	-0.03	0.31	0.31	0	0	0	0	0	0
7/4/2024 11:16	20403	ASHF_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 11:18	13503	MCMI_T2	0	101	101	0	0.27	0.27	0.41	-1.37	0	0	0	0	0	0
7/4/2024 11:19	52402	GRPA_T2	12	89	77	0.73	0.81	0.08	0	0	0	0	0	0	0	0
7/4/2024 11:19	52403	GRPA_T2	78	139	61	1.32	0.78	-0.54	0	0	0	0	0	0	0	0
7/4/2024 11:19	52401	GRPA_T2	33	16	-17	0.44	0.9	0.46	-0.12	-0.07	0	0	0	0	0	0
7/4/2024 11:19	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 11:20	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 11:20	64101	REFR_T1	11	10	-1	1.72	1.12	-0.6	0.6	0.06	0	0	0	0	0	0
7/4/2024 11:20	52401	GRPA_T2	33	16	-17	0.44	0.9	0.46	0	0	0	0	0	0	0	0
7/4/2024 11:20	52403	GRPA_T2	78	139	61	1.32	0.78	-0.54	0.11	0.19	0	0	0	0	0	0
7/4/2024 11:20	52402	GRPA_T2	12	89	77	0.73	0.81	0.08	0	0	0	0	0	0	0	0
7/4/2024 11:21	48302	ORWI_T2	2	2	0	0.65	0.4	-0.25	-0.16	-0.13	0	0	0	0	0	0
7/4/2024 11:22	64101	REFR_T1	11	10	-1	1.72	1.12	-0.6	0.06	0.06	0	0	0	0	0	0
7/4/2024 11:24	56803	BENV_T1	5	6	1	0.84	1.08	0.24	0	0	0	0	0	0	0	0
7/4/2024 11:24	56801	BENV_T1	4	8	4	0.38	0.58	0.2	-0.13	-0.13	1	1	0	600	600	0
7/4/2024 11:25	46203	DANV_T2	0	8	8	0	0.2	0.2	-1.33	-1.37	0	0	0	0	0	0
7/4/2024 11:25	56801	BENV_T1	4	8	4	0.38	0.58	0.2	-0.4	-0.38	3	3	0	1800	1800	0
7/4/2024 11:25	46206	DANV_T2	4	3	-1	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
7/4/2024 11:25	56803	BENV_T1	5	6	1	0.84	1.08	0.24	0	0	0	0	0	0	0	0
7/4/2024 11:25	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 11:26	46206	DANV_T2	4	3	-1	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
7/4/2024 11:26	60801	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 11:26	60803	BUCK_T1	10	10	0	0.22	0.18	-0.04	-0.43	-0.39	2	2	0	1200	1200	0
7/4/2024 11:26	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 11:26	46203	DANV_T2	0	8	8	0	0.2	0.2	-2.67	-2.73	0	0	0	0	0	0
7/4/2024 11:27	46203	DANV_T2	0	8	8	0	0.2	0.2	-1.33	-1.37	0	0	0	0	0	0
7/4/2024 11:27	46206	DANV_T2	4	3	-1	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
7/4/2024 11:27	56803	BENV_T1	5	6	1	0.84	1.08	0.24	0	0	0	0	0	0	0	0
7/4/2024 11:27	56801	BENV_T1	4	8	4	0.38	0.58	0.2	-0.66	-0.63	5	5	0	3000	3000	0
7/4/2024 11:27	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 11:28	60803	BUCK_T1	10	10	0	0.22	0.18	-0.04	-0.22	-0.2	1	1	0	600	600	0
7/4/2024 11:28	60801	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 11:28	56803	BENV_T1	5	6	1	0.84	1.08	0.24	0	0	0	0	0	0	0	0
7/4/2024 11:28	56801	BENV_T1	4	8	4	0.38	0.58	0.2	-0.4	-0.38	3	3	0	1800	1800	0
7/4/2024 11:28	40101	HUNT_T2	58	95	37	0.66	0.49	-0.17	-0.16	-0.24	0	0	0	0	0	0
7/4/2024 11:29	46203	DANV_T2	0	8	8	0	0.2	0.2	-2.67	-2.73	0	0	0	0	0	0
7/4/2024 11:29	60801	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 11:29	46206	DANV_T2	4	3	-1	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
7/4/2024 11:29	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 11:29	60803	BUCK_T1	10	10	0	0.22	0.18	-0.04	-0.22	-0.2	1	1	0	600	600	0
7/4/2024 11:29	45802	HEGI_T2	38	47	9	0.89	1.34	0.45	0.36	0.45	1	1	0	300	300	0
7/4/2024 11:31	25501	MADI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 11:31	25503	MADI_T1	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
7/4/2024 11:34	54701	NEBL_T1	14	54	40	0.31	0.27	-0.04	0	0	1	1	0	600	600	0
7/4/2024 11:34	57205	ROSS_T1	0	0	0	0	0	0	-0.23	-0.11	1	1	0	900	900	0
7/4/2024 11:35	66701	STRA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 11:35	66703	STRA_T1	1	1	0	0.4	0	-0.4	0.66	0.63	0	0	0	0	0	0
7/4/2024 11:36	66901	SHIL_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
7/4/2024 11:36	64101	REFR_T1	10	10	0	1.12	1.37	0.25	0.06	0.09	0	0	0	0	0	0
7/4/2024 11:37	45602	WOOL_T1	58	58	0	0.95	0.73	-0.22	0.76	0.83	0	0	0	0	0	0
7/4/2024 11:38	66505	SMAN_T2	2	4	2	0.25	0.33	0.08	0	0	0	0	0	0	0	0
7/4/2024 11:38	66504	SMAN_T2	0	0	0	0	0	0	0.55	0.59	0	0	0	0	0	0
7/4/2024 11:39	45602	WOOL_T1	58	58	0	0.95	0.73	-0.22	1.52	1.66	0	0	0	0	0	0
7/4/2024 11:40	64802	MONE_T2	0	0	0	0	0	0	0.78	0.81	0	0	0	0	0	0
7/4/2024 11:42	54504	ENOL_T2	0	0	0	0	0	0	-1.26	-1.23	1	1	0	600	600	0
7/4/2024 11:42	63401	HONY_T1	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
7/4/2024 11:42	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 11:42	52002	LING_T2	0	4	4	0	0	0	1.49	-0.1	0	0	0	0	0	0
7/4/2024 11:43	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 11:43	52002	LING_T2	0	4	4	0	0	0	0.75	-0.05	0	0	0	0	0	0
7/4/2024 11:45	52404	GRPA_T2	0	1	1	0	0	0	-0.32	-0.25	0	0	0	0	0	0
7/4/2024 11:45	52403	GRPA_T2	112	103	-9	0.84	0.74	-0.1	0	0	0	0	0	0	0	0
7/4/2024 11:45	52401	GRPA_T2	16	45	29	0.61	0.55	-0.06	0	0	0	0	0	0	0	0
7/4/2024 11:45	52402	GRPA_T2	87	94	7	0.82	1.06	0.24	0	0	0	0	0	0	0	0
7/4/2024 11:46	52006	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 11:46	56501	ROCK_T2	3	3	0	0.97	0.6	-0.37	-1.11	-1.05	0	0	0	0	0	0
7/4/2024 11:46	52002	LING_T2	4	0	-4	0.1	0	-0.1	1.49	-0.1	0	0	0	0	0	0
7/4/2024 11:46	52004	LING_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 11:46	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 11:47	56501	ROCK_T2	3	3	0	0.97	0.6	-0.37	-1.11	-1.05	0	0	0	0	0	0
7/4/2024 11:47	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 11:48	64204	KINZ_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/4/2024 11:48	52401	GRPA_T2	16	45	29	0.61	0.55	-0.06	0	0	0	0	0	0	0	0
7/4/2024 11:48	64203	KINZ_T1	1	1	0	0.3	0.1	-0.2	-0.22	-0.17	2	2	0	900	900	0
7/4/2024 11:48	52403	GRPA_T2	112	103	-9	0.84	0.74	-0.1	0	0	0	0	0	0	0	0
7/4/2024 11:48	52404	GRPA_T2	0	1	1	0	0	0	-0.32	-0.25	0	0	0	0	0	0
7/4/2024 11:48	40603	PIGR_T1	3	3	0	0.17	0.25	0.08	0	0	0	0	0	0	0	0
7/4/2024 11:48	40601	PIGR_T1	23	20	-3	0.32	0.31	-0.01	0.2	0.18	0	0	0	0	0	0
7/4/2024 11:48	52402	GRPA_T2	87	94	7	0.82	1.06	0.24	0	0	0	0	0	0	0	0
7/4/2024 11:49	40601	PIGR_T1	23	20	-3	0.32	0.31	-0.01	0.2	0.18	0	0	0	0	0	0
7/4/2024 11:49	40603	PIGR_T1	3	3	0	0.17	0.25	0.08	0	0	0	0	0	0	0	0
7/4/2024 11:49	13503	MCMI_T2	97	16	-81	0.27	0.47	0.2	-0.67	-0.63	0	0	0	0	0	0
7/4/2024 11:50	67605	WARW_T1	1	1	0	0.1	0.1	0	-0.68	-0.66	0	0	0	0	0	0
7/4/2024 11:51	65004	NEFF_T2	0	0	0	0	0	0	-0.49	-0.47	1	1	0	600	600	0
7/4/2024 11:52	43301	WATS_T2	2	2	0	0.95	0.2	-0.75	-0.05	-0.06	1	1	0	900	900	0
7/4/2024 11:52	52401	GRPA_T2	16	45	29	0.61	0.55	-0.06	0	0	0	0	0	0	0	0
7/4/2024 11:52	43304	WATS_T2	3	3	0	0.87	0	-0.87	-0.26	-0.28	0	0	0	0	0	0
7/4/2024 11:52	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 11:52	52402	GRPA_T2	87	94	7	0.82	1.06	0.24	0	0	0	0	0	0	0	0
7/4/2024 11:52	52403	GRPA_T2	112	103	-9	0.84	0.74	-0.1	-0.12	-0.19	0	0	0	0	0	0
7/4/2024 11:54	46002	BERW_T2	0	0	0	0	0	0	-0.77	-0.72	1	1	0	900	900	0
7/4/2024 11:54	29402	BELT_T1	1	8	7	8.4	1.82	-6.58	0	0	0	0	0	0	0	0
7/4/2024 11:54	66701	STRA_T1	0	2	2	0	0	0	0.59	0.65	1	1	0	600	600	0
7/4/2024 11:54	56801	BENV_T1	8	4	-4	0.58	0.58	0	-0.11	-0.09	1	1	0	600	600	0
7/4/2024 11:54	29401	BELT_T1	0	1	1	0	0.3	0.3	0	0	1	1	0	900	900	0
7/4/2024 11:54	66703	STRA_T1	1	6	5	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/4/2024 11:54	64203	KINZ_T1	1	1	0	0.3	0.1	-0.2	-0.17	-0.2	2	2	0	900	900	0
7/4/2024 11:54	56803	BENV_T1	6	7	1	1.3	1.43	0.13	0	0	0	0	0	0	0	0
7/4/2024 11:54	46004	BERW_T2	2	3	1	0.7	0.85	0.15	0	0	0	0	0	0	0	0
7/4/2024 11:54	64204	KINZ_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/4/2024 11:57	29402	BELT_T1	1	8	7	8.4	1.82	-6.58	0	0	0	0	0	0	0	0
7/4/2024 11:57	63401	HONY_T1	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
7/4/2024 11:57	29401	BELT_T1	0	1	1	0	0.3	0.3	0	0	1	1	0	900	900	0
7/4/2024 11:58	24104	EHAZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/4/2024 11:58	24101	EHAZ_T1	21	23	2	0.61	0.24	-0.37	0	0	0	0	0	0	0	0
7/4/2024 11:58	24105	EHAZ_T1	4	4	0	6.18	6.15	-0.03	0	0	0	0	0	0	0	0
7/4/2024 11:58	24102	EHAZ_T1	1	3	2	0.7	0	-0.7	0.07	0.09	0	0	0	0	0	0
7/4/2024 12:00	52402	GRPA_T2	93	93	0	1.5	1.07	-0.43	0	0	0	0	0	0	0	0
7/4/2024 12:00	52403	GRPA_T2	85	103	18	0.84	0.68	-0.16	0	0	0	0	0	0	0	0
7/4/2024 12:00	52401	GRPA_T2	8	56	48	0.56	0.58	0.02	0	0	0	0	0	0	0	0
7/4/2024 12:00	40101	HUNT_T2	108	190	82	0.52	0.65	0.13	-0.22	-0.2	0	0	0	0	0	0
7/4/2024 12:00	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	-0.5	-0.4	0	0	0	0	0	0
7/4/2024 12:01	63401	HONY_T1	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/4/2024 12:03	45702	LIND_T2	4	6	2	2.15	0.95	-1.2	0.23	-1	0	0	0	0	0	0
7/4/2024 12:03	63401	HONY_T1	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
7/4/2024 12:03	64201	KINZ_T1	0	0	0	0	0	0	0.03	0.02	3	3	0	1500	1500	0
7/4/2024 12:03	64204	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
7/4/2024 12:03	64203	KINZ_T1	1	1	0	0.1	1.1	1	0	0	0	0	0	0	0	0
7/4/2024 12:05	67401	WAKE_T2	1	0	-1	0.2	0	-0.2	0	0	1	0	0	0	0	0
7/4/2024 12:05	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.23	1	1	0	600	600	0
7/4/2024 12:07	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.26	1	1	0	600	600	0
7/4/2024 12:07	67401	WAKE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 12:08	15702	TANN_T2	0	0	0	0	0	0	-0.08	0	0	0	0	0	0	0
7/4/2024 12:08	15703	TANN_T2	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
7/4/2024 12:09	61101	BERK_T5	0	0	0	0	0	0	-0.45	-0.91	0	0	0	0	0	0
7/4/2024 12:09	61102	BERK_T5	0	0	0	0	0	0	1.14	1.21	1	1	0	300	300	0
7/4/2024 12:10	67401	WAKE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 12:10	60201	ATGL_T2	0	1	1	0	0	0	1.01	1.13	0	0	0	0	0	0
7/4/2024 12:10	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.26	1	1	0	600	600	0
7/4/2024 12:11	61102	BERK_T5	0	0	0	0	0	0	1.14	1.21	1	1	0	300	300	0
7/4/2024 12:12	45802	HEGI_T2	27	38	11	0.45	0.76	0.31	0.94	0.44	1	1	0	300	300	0
7/4/2024 12:12	61102	BERK_T5	0	0	0	0	0	0	1.14	1.21	1	1	0	300	300	0
7/4/2024 12:14	61501	EPET_T2	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
7/4/2024 12:14	61506	EPET_T2	0	0	0	0	0	0	-1.42	-1.37	2	2	0	1800	1800	0
7/4/2024 12:15	42902	MIDD_T2	7	39	32	0.59	0.88	0.29	-0.14	-0.11	0	0	0	0	0	0
7/4/2024 12:15	42903	MIDD_T2	2	2	0	1.6	1.25	-0.35	0	0	0	0	0	0	0	0
7/4/2024 12:16	57303	MOAL_T2	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
7/4/2024 12:16	57304	MOAL_T2	5	4	-1	0.36	0.1	-0.26	0.13	0.12	0	0	0	0	0	0
7/4/2024 12:18	40602	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 12:18	40603	PIGR_T1	0	2	2	0	0.2	0.2	0.79	0.83	0	0	0	0	0	0
7/4/2024 12:18	12801	MICK_T1	0	0	0	0	0	0	-0.47	-0.53	1	1	0	600	600	0
7/4/2024 12:18	40601	PIGR_T1	14	3	-11	0.36	0.8	0.44	0	0	0	0	0	0	0	0
7/4/2024 12:21	64101	REFR_T1	10	10	0	2.48	1.89	-0.59	0.19	0.24	0	0	0	0	0	0
7/4/2024 12:23	42701	AUGU_T1	16	42	26	0.43	0.41	-0.02	0	0	2	2	0	1800	1800	0
7/4/2024 12:23	64101	REFR_T1	10	10	0	2.48	1.89	-0.59	0.19	0.24	0	0	0	0	0	0
7/4/2024 12:24	67902	WNHO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 12:24	67901	WNHO_T2	12	26	14	0.53	0.33	-0.2	0.03	0.12	0	0	0	0	0	0
7/4/2024 12:25	42701	AUGU_T1	16	42	26	0.43	0.41	-0.02	0	0	2	2	0	1800	1800	0
7/4/2024 12:25	55101	WERT_T1	0	0	0	0	0	0	-1.5	-1.49	3	3	0	2400	2400	0
7/4/2024 12:25	55103	WERT_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/4/2024 12:25	55105	WERT_T1	0	1	1	0	0	0	0.65	0.73	1	1	0	900	900	0
7/4/2024 12:26	44801	EDAN_T2	12	14	2	0.62	0.43	-0.19	1.08	1.13	0	0	0	0	0	0
7/4/2024 12:26	60201	ATGL_T2	0	1	1	0	0	0	1.13	1.14	0	0	0	0	0	0
7/4/2024 12:27	42701	AUGU_T1	16	42	26	0.43	0.41	-0.02	0	0	2	2	0	1800	1800	0
7/4/2024 12:27	67201	TEHI_T1	0	2	2	0	0.25	0.25	0.64	0.65	1	1	0	600	600	0
7/4/2024 12:27	44801	EDAN_T2	12	14	2	0.62	0.43	-0.19	1.08	1.13	0	0	0	0	0	0
7/4/2024 12:29	56802	BENV_T2	0	0	0	0	0	0	-0.59	-0.54	0	0	0	0	0	0
7/4/2024 12:30	16302	ALPA_T2	0	4	4	0	0.25	0.25	-0.25	-0.22	0	0	0	0	0	0
7/4/2024 12:30	20401	ASHF_T2	6	6	0	1.37	1.36	-0.01	0	0	0	0	0	0	0	0
7/4/2024 12:30	20403	ASHF_T2	3	4	1	0.53	1.15	0.62	0.91	1.02	0	0	0	0	0	0
7/4/2024 12:30	20402	ASHF_T2	6	6	0	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
7/4/2024 12:30	44801	EDAN_T2	12	13	1	1.22	0.5	-0.72	1.08	1.13	0	0	0	0	0	0
7/4/2024 12:33	20401	ASHF_T2	6	6	0	1.37	1.36	-0.01	0	0	0	0	0	0	0	0
7/4/2024 12:33	20403	ASHF_T2	3	4	1	0.53	1.15	0.62	0.91	1.02	0	0	0	0	0	0
7/4/2024 12:33	20402	ASHF_T2	6	6	0	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
7/4/2024 12:34	47403	PENS_T1	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
7/4/2024 12:34	47402	PENS_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
7/4/2024 12:34	48302	ORWI_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
7/4/2024 12:34	47401	PENS_T1	7	6	-1	0.93	0.6	-0.33	1.51	2.24	0	0	0	0	0	0
7/4/2024 12:35	47401	PENS_T1	7	6	-1	0.93	0.6	-0.33	0.38	0.56	0	0	0	0	0	0
7/4/2024 12:35	64101	REFR_T1	10	10	0	2.07	1.5	-0.57	0.19	0.24	0	0	0	0	0	0
7/4/2024 12:35	47403	PENS_T1	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
7/4/2024 12:35	47402	PENS_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
7/4/2024 12:36	44801	EDAN_T2	12	13	1	1.22	0.5	-0.72	1.13	1.04	0	0	0	0	0	0
7/4/2024 12:38	67903	WNHO_T1	0	0	0	0	0	0	0.43	0.48	1	1	0	1200	1200	0
7/4/2024 12:39	60201	ATGL_T2	1	0	-1	1.2	0	-1.2	1.14	1.15	0	0	0	0	0	0
7/4/2024 12:39	42701	AUGU_T1	21	52	31	0.44	0.5	0.06	0	0	2	2	0	1800	1800	0
7/4/2024 12:40	29401	BELT_T1	20	8	-12	0.21	0.24	0.03	0	0	0	0	0	0	0	0
7/4/2024 12:40	29402	BELT_T1	134	92	-42	1.14	0.94	-0.2	0	0	0	0	0	0	0	0
7/4/2024 12:41	43301	WATS_T2	1	1	0	0.2	0	-0.2	-0.01	0.05	0	1	1	0	900	900
7/4/2024 12:41	29402	BELT_T1	134	92	-42	1.14	0.94	-0.2	0	0	0	0	0	0	0	0
7/4/2024 12:41	43304	WATS_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
7/4/2024 12:41	44801	EDAN_T2	12	13	1	1.22	0.5	-0.72	1.13	1.04	0	0	0	0	0	0
7/4/2024 12:41	29401	BELT_T1	20	8	-12	0.21	0.24	0.03	0	0	0	0	0	0	0	0
7/4/2024 12:42	61701	ELIZ_T1	1	1	0	1.7	1.1	-0.6	1.35	1.21	0	0	0	0	0	0
7/4/2024 12:42	61702	ELIZ_T2	1	1	0	2.8	0	-2.8	-1.09	-1.18	2	2	0	1500	1500	0
7/4/2024 12:42	22903	HANW_T1	11	3	-8	0.56	0.1	-0.46	0	0	0	0	0	0	0	0
7/4/2024 12:42	22901	HARW_T1	4	4	0	0.5	0	-0.5	-0.41	-0.49	1	1	0	1200	1200	0
7/4/2024 12:42	22905	HARW_T1	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/4/2024 12:43	22905	HARW_T1	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/4/2024 12:43	22903	HARW_T1	11	3	-8	0.56	0.1	-0.46	0	0	0	0	0	0	0	0
7/4/2024 12:43	22901	HARW_T1	4	4	0	0.5	0	-0.5	-0.41	-0.49	1	1	0	1200	1200	0
7/4/2024 12:43	61701	ELIZ_T1	1	1	0	1.7	1.1	-0.6	1.35	1.21	0	0	0	0	0	0
7/4/2024 12:43	61302	EARL_T1	0	0	0	0	0	0	0.92	1.12	2	2	0	1800	1800	0
7/4/2024 12:44	16302	ALPA_T2	0	4	4	0	0.25	0.25	-0.22	-0.2	0	0	0	0	0	0
7/4/2024 12:44	40902	JESH_T1	0	1	1	0	0.2	0.2	-1.05	-1.01	2	2	0	1200	1200	0
7/4/2024 12:44	40903	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 12:44	56503	ROCK_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/4/2024 12:44	56504	ROCK_T2	1	7	6	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/4/2024 12:44	40901	JESH_T1	3	5	2	1.83	1.45	-0.38	0	0	0	0	0	0	0	0
7/4/2024 12:44	56501	ROCK_T2	6	6	0	0.47	0.2	-0.27	-2.23	-2.17	0	0	0	0	0	0
7/4/2024 12:45	12606	MACA_T1	12	17	5	0.4	0.82	0.42	0	0	0	0	0	0	0	0
7/4/2024 12:45	12605	MACA_T1	0	1	1	0	0	0	-0.05	-0.07	0	0	0	0	0	0
7/4/2024 12:45	40903	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 12:45	12601	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 12:45	40902	JESH_T1	1	2	1	0.2	0	-0.2	-1.05	-1.01	2	2	0	1200	1200	0
7/4/2024 12:45	40901	JESH_T1	5	4	-1	1.38	1.15	-0.23	0	0	0	0	0	0	0	0
7/4/2024 12:46	16301	ALPA_T1	0	1	1	0	0.2	0.2	0.48	0.53	0	0	0	0	0	0
7/4/2024 12:47	52402	GRPA_T2	93	103	10	1.46	0.98	-0.48	0	0	0	0	0	0	0	0
7/4/2024 12:47	52401	GRPA_T2	64	56	-8	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
7/4/2024 12:47	22903	HARW_T1	2	7	5	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
7/4/2024 12:47	55002	NEWP_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 12:47	22905	HARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 12:47	52404	GRPA_T2	3	4	1	0.17	0.55	0.38	-0.19	-0.19	0	0	0	0	0	0
7/4/2024 12:47	22901	HARW_T1	3	1	-2	0.4	0	-0.4	-0.41	-0.49	1	1	0	1200	1200	0
7/4/2024 12:47	55001	NEWP_T1	61	74	13	1.27	0.77	-0.5	-0.12	-0.09	0	0	0	0	0	0
7/4/2024 12:47	16302	ALPA_T2	0	4	4	0	0.48	0.48	-0.22	-0.2	0	0	0	0	0	0
7/4/2024 12:47	52403	GRPA_T2	97	126	29	0.79	0.88	0.09	0	0	0	0	0	0	0	0
7/4/2024 12:48	16302	ALPA_T2	0	4	4	0	0.48	0.48	-0.43	-0.4	0	0	0	0	0	0
7/4/2024 12:48	21901	HUMB_T1	3	2	-1	0.97	1	0.03	-0.12	-0.1	0	0	0	0	0	0
7/4/2024 12:49	64903	MILL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 12:49	16302	ALPA_T2	0	4	4	0	0.48	0.48	-0.22	-0.2	0	0	0	0	0	0
7/4/2024 12:49	64902	MILL_T2	0	0	0	0	0	0	-0.42	-0.39	1	1	0	900	900	0
7/4/2024 12:50	64101	REFR_T1	10	10	0	1.89	1.5	-0.39	0.24	0.26	0	0	0	0	0	0
7/4/2024 12:51	55101	WERT_T1	0	0	0	0	0	0	-1.49	-1.54	3	3	0	2400	2400	0
7/4/2024 12:51	55103	WERT_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/4/2024 12:51	55002	NEWP_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 12:51	55001	NEWP_T1	61	74	13	1.27	0.77	-0.5	-0.12	-0.09	0	0	0	0	0	0
7/4/2024 12:52	55101	WERT_T1	0	0	0	0	0	0	-3.08	-2.98	6	6	0	4800	4800	0
7/4/2024 12:52	60201	ATGL_T2	0	0	0	0	0	0	1.15	1.15	0	0	0	0	0	0
7/4/2024 12:52	55103	WERT_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/4/2024 12:53	43301	WATS_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/4/2024 12:53	43304	WATS_T2	2	3	1	0.3	0.3	0	-0.24	-0.24	0	0	0	0	0	0
7/4/2024 12:54	55103	WERT_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/4/2024 12:54	55101	WERT_T1	0	0	0	0	0	0	-1.54	-1.49	3	3	0	2400	2400	0
7/4/2024 12:54	42701	AUGU_T1	42	63	21	0.5	0.58	0.08	0	0	2	2	0	1800	1800	0
7/4/2024 12:55	55103	WERT_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/4/2024 12:55	56803	BENV_T1	10	8	-2	1.73	2.34	0.61	0	0	0	0	0	0	0	0
7/4/2024 12:55	56801	BENV_T1	4	6	2	0.5	0.56	0.06	-0.06	-0.04	1	1	0	600	600	0
7/4/2024 12:55	56802	BENV_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
7/4/2024 12:55	55101	WERT_T1	0	0	0	0	0	0	-3.08	-2.98	6	6	0	4800	4800	0
7/4/2024 12:56	44301	BEAV_T2	9	23	14	0.49	0.61	0.12	0	0	0	0	0	0	0	0
7/4/2024 12:56	44302	BEAV_T2	4	6	2	0.3	0.25	-0.05	0.61	0.62	0	0	0	0	0	0
7/4/2024 12:57	56801	BENV_T1	4	6	2	0.5	0.56	0.06	-0.06	-0.04	1	1	0	600	600	0
7/4/2024 12:57	56803	BENV_T1	10	8	-2	1.73	2.34	0.61	0	0	0	0	0	0	0	0
7/4/2024 12:58	63501	HEID_TBK1-2	0	0	0	0	0	0	0.62	0.67	1	1	0	900	900	0
7/4/2024 12:59	24702	FLND_T2	11	2	-9	0.61	1.15	0.54	0	0	0	0	0	0	0	0
7/4/2024 12:59	24102	EHAZ_T1	2	1	-1	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/4/2024 12:59	24105	EHAZ_T1	4	4	0	6.45	6.28	-0.17	0	0	0	0	0	0	0	0
7/4/2024 12:59	24701	FLND_T2	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
7/4/2024 12:59	24101	EHAZ_T1	24	24	0	0.83	0.68	-0.15	0	0	0	0	0	0	0	0
7/4/2024 12:59	24103	EHAZ_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
7/4/2024 12:59	24703	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 13:00	42903	MIDD_T2	2	2	0	0.4	0.95	0.55	0	0	0	0	0	0	0	0
7/4/2024 13:00	42901	MIDD_T2	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 13:00	42902	MIDD_T2	46	53	7	1.29	1.47	0.18	-0.12	-0.11	0	0	0	0	0	0
7/4/2024 13:01	20403	ASHF_T2	2	31	29	1.15	0.5	-0.65	2.12	2.31	0	0	0	0	0	0
7/4/2024 13:01	53902	HALI_T2	1	1	0	3.6	4	0.4	0	0	0	0	0	0	0	0
7/4/2024 13:01	42902	MIDD_T2	46	53	7	1.29	1.47	0.18	-0.12	-0.11	0	0	0	0	0	0
7/4/2024 13:01	20402	ASHF_T2	6	4	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
7/4/2024 13:01	42903	MIDD_T2	2	2	0	0.4	0.95	0.55	0	0	0	0	0	0	0	0
7/4/2024 13:01	42901	MIDD_T2	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 13:01	53901	HALI_T2	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
7/4/2024 13:01	20401	ASHF_T2	5	6	1	1.42	1.2	-0.22	0	0	0	0	0	0	0	0
7/4/2024 13:02	12301	LANA_T2	0	0	0	0	0	0	-0.79	-0.95	0	0	0	0	0	0
7/4/2024 13:02	42902	MIDD_T2	46	53	7	1.29	1.47	0.18	-0.12	-0.11	0	0	0	0	0	0
7/4/2024 13:02	64701	LITI_T1	10	11	1	1.37	1.63	0.26	-0.18	-0.09	1	1	0	900	900	0
7/4/2024 13:02	12701	MACU_T1	0	0	0	0	0	0	-0.77	-0.77	1	1	0	1200	1200	0
7/4/2024 13:02	42903	MIDD_T2	2	2	0	0.4	0.95	0.55	0	0	0	0	0	0	0	0
7/4/2024 13:02	14204	EALL_T2	0	0	0	0	0	0	0.03	0.1	1	1	0	1200	1200	0
7/4/2024 13:02	42901	MIDD_T2	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 13:02	12304	LANA_T2	2	5	3	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/4/2024 13:02	64704	LITI_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 13:03	20402	ASHF_T2	6	4	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
7/4/2024 13:03	47101	MARL_T1	49	74	25	0.79	0.89	0.1	-0.54	-0.56	1	1	0	600	600	0
7/4/2024 13:03	39601	LNFD_T1	2	1	-1	2.85	3.9	1.05	0	0	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/4/2024 13:03	20403	ASHF_T2	2	31	29	1.15	0.5	-0.65	1.06	1.15	0	0	0	0	0	0
7/4/2024 13:03	20401	ASHF_T2	5	6	1	1.42	1.2	-0.22	0	0	0	0	0	0	0	0
7/4/2024 13:03	45802	HEGI_T2	3	13	10	0.43	0.37	-0.06	0.6	0.6	1	1	0	300	300	0
7/4/2024 13:04	42901	MIDD_T2	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 13:04	55001	NEWP_T1	74	68	-6	1.41	0.78	-0.63	-0.09	-0.05	0	0	0	0	0	0
7/4/2024 13:04	42902	MIDD_T2	46	53	7	1.29	1.47	0.18	-0.25	-0.23	0	0	0	0	0	0
7/4/2024 13:04	42903	MIDD_T2	2	2	0	0.4	0.95	0.55	0	0	0	0	0	0	0	0
7/4/2024 13:04	55002	NEWP_T1	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
7/4/2024 13:04	67204	TEHI_T2	0	1	1	0	0.2	0.2	0.1	0.17	0	0	0	0	0	0
7/4/2024 13:05	51004	NHAR_T1	1	1	0	7.3	7	-0.3	0	0	0	0	0	0	0	0
7/4/2024 13:05	65603	QVIL_T2	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
7/4/2024 13:05	50701	SMEC_T1	0	1	1	0	0.6	0.6	-0.9	-1.09	2	2	0	2100	2100	0
7/4/2024 13:05	42903	MIDD_T2	2	2	0	0.4	0.95	0.55	0	0	0	0	0	0	0	0
7/4/2024 13:05	65604	QVIL_T2	1	2	1	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/4/2024 13:05	12701	MACU_T1	0	0	0	0	0	0	-0.77	-0.77	1	1	0	1200	1200	0
7/4/2024 13:05	67204	TEHI_T2	0	1	1	0	0.2	0.2	0.1	0.17	0	0	0	0	0	0
7/4/2024 13:05	42901	MIDD_T2	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 13:05	65601	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 13:05	67201	TEHI_T1	4	0	-4	0.38	0	-0.38	0	0	0	0	0	0	0	0
7/4/2024 13:05	42902	MIDD_T2	46	53	7	1.29	1.47	0.18	-0.25	-0.23	0	0	0	0	0	0
7/4/2024 13:05	51003	NHAR_T1	0	0	0	0	0	0	-1.46	-1.48	1	1	0	1200	1200	0
7/4/2024 13:05	67203	TEHI_T1	2	0	-2	0.15	0	-0.15	2.08	2.12	1	1	0	900	900	0
7/4/2024 13:05	47101	MARL_T1	49	74	25	0.79	0.89	0.1	-0.54	-0.56	1	1	0	600	600	0
7/4/2024 13:07	66505	SMAN_T2	35	69	34	0.36	0.7	0.34	1.36	1.29	8	8	0	4600	4600	0
7/4/2024 13:07	55002	NEWP_T1	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
7/4/2024 13:07	55001	NEWP_T1	74	68	-6	1.41	0.78	-0.63	-0.05	-0.01	0	0	0	0	0	0
7/4/2024 13:07	66504	SMAN_T2	7	7	0	0.46	0.3	-0.16	0	0	0	0	0	0	0	0
7/4/2024 13:09	44801	EDAN_T2	11	22	11	0.48	0.56	0.08	1.11	1.1	0	0	0	0	0	0
7/4/2024 13:09	67804	WLAN_T1	10	10	0	0.85	0.85	0	0	0	0	0	0	0	0	0
7/4/2024 13:09	67801	WLAN_T1	3	6	3	0.43	0	-0.43	0.32	-0.8	0	0	0	0	0	0
7/4/2024 13:09	56803	BENV_T1	8	10	2	2.36	2.93	0.57	0	0	0	0	0	0	0	0
7/4/2024 13:09	56801	BENV_T1	4	7	3	0.38	0.56	0.18	-0.04	0.04	1	1	0	600	600	0
7/4/2024 13:10	56801	BENV_T1	4	7	3	0.38	0.56	0.18	-0.16	0.17	4	4	0	2400	2400	0
7/4/2024 13:10	41301	WATS_T2	0	0	0	0	0	0	0.05	0.07	1	1	0	900	900	0
7/4/2024 13:10	43304	WATS_T2	3	2	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/4/2024 13:10	56803	BENV_T1	8	10	2	2.36	2.93	0.57	0	0	0	0	0	0	0	0
7/4/2024 13:11	57004	WHHI_T2	0	0	0	0	0	0	-0.42	-0.48	0	0	0	0	0	0
7/4/2024 13:12	56504	ROCK_T2	7	9	2	0.93	0.2	-0.73	0.59	0.63	0	0	0	0	0	0
7/4/2024 13:12	56503	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/4/2024 13:12	56803	BENV_T1	8	10	2	2.36	2.93	0.57	0	0	0	0	0	0	0	0
7/4/2024 13:12	56501	ROCK_T2	3	13	10	0.17	0.28	0.11	0	0	0	0	0	0	0	0
7/4/2024 13:12	56801	BENV_T1	4	7	3	0.38	0.56	0.18	-0.04	0.04	1	1	0	600	600	0
7/4/2024 13:13	56504	ROCK_T2	7	9	2	0.93	0.2	-0.73	0.59	0.63	0	0	0	0	0	0
7/4/2024 13:13	56803	BENV_T1	8	10	2	2.36	2.93	0.57	0	0	0	0	0	0	0	0
7/4/2024 13:13	56801	BENV_T1	4	7	3	0.38	0.56	0.18	-0.08	0.09	2	2	0	1200	1200	0
7/4/2024 13:13	56501	ROCK_T2	3	13	10	0.17	0.28	0.11	0	0	0	0	0	0	0	0
7/4/2024 13:13	56503	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/4/2024 13:14	56504	ROCK_T2	7	9	2	0.93	0.2	-0.73	1.78	1.89	0	0	0	0	0	0
7/4/2024 13:14	56501	ROCK_T2	3	13	10	0.17	0.28	0.11	0	0	0	0	0	0	0	0
7/4/2024 13:14	63804	HEMP_T1	1	2	1	6.5	6.6	0.1	0.17	0.22	0	0	0	0	0	0
7/4/2024 13:14	56503	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/4/2024 13:14	51802	EBEN_T2	1	4	3	0.5	0	-0.5	0.9	0.87	1	1	0	900	900	0
7/4/2024 13:15	61701	ELIZ_T1	1	2	1	0.7	0.9	0.2	1.2	1.38	0	0	0	0	0	0
7/4/2024 13:16	56503	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/4/2024 13:16	56504	ROCK_T2	9	7	-2	0.26	0.1	-0.16	0.59	0.63	0	0	0	0	0	0
7/4/2024 13:16	56501	ROCK_T2	3	15	12	0.17	0.33	0.16	0	0	0	0	0	0	0	0
7/4/2024 13:16	53801	MBRG_T2	2	1	-1	0.65	0	-0.65	0.66	0.8	0	0	0	0	0	0
7/4/2024 13:17	12701	MACU_T1	0	0	0	0	0	0	-1.54	-1.47	2	2	0	2400	2400	0
7/4/2024 13:18	47101	MARL_T1	62	88	26	0.99	0.81	-0.18	-0.56	-0.61	1	1	0	600	600	0
7/4/2024 13:18	65901	SAKR_T2	1	1	0	6.4	5.9	-0.5	-0.33	-0.27	2	2	0	1500	1500	0
7/4/2024 13:18	63804	HEMP_T1	1	2	1	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
7/4/2024 13:18	63803	HEMP_T1	0	0	0	0	0	0	0.99	1.02	0	0	0	0	0	0
7/4/2024 13:18	12701	MACU_T1	0	0	0	0	0	0	-0.77	-0.73	1	1	0	1200	1200	0
7/4/2024 13:19	52501	PROG_T1	0	0	0	0	0	0	-0.06	-0.07	1	1	0	300	300	0
7/4/2024 13:19	64203	KINZ_T1	2	2	0	1	1.2	0.2	-0.02	0	2	2	0	900	900	0
7/4/2024 13:19	47101	MARL_T1	62	88	26	0.99	0.81	-0.18	-0.56	-0.61	1	1	0	600	600	0
7/4/2024 13:20	64202	KINZ_T1	0	0	0	0	0	0	1.63	1.7	0	0	0	0	0	0
7/4/2024 13:20	66505	SMAN_T2	69	6	-63	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
7/4/2024 13:20	66504	SMAN_T2	7	6	-1	0.3	0.3	0	0.86	0.9	0	0	0	0	0	0
7/4/2024 13:20	64203	KINZ_T1	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 13:20	47101	MARL_T1	62	88	26	0.99	0.81	-0.18	-0.56	-0.61	1	1	0	600	600	0
7/4/2024 13:21	66504	SMAN_T2	7	6	-1	0.3	0.3	0	1.81	1.95	0	0	0	0	0	0
7/4/2024 13:21	66505	SMAN_T2	69	6	-63	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
7/4/2024 13:22	40603	PIGR_T1	31	21	-10	0.53	0.27	-0.26	0	0	0	0	0	0	0	0
7/4/2024 13:22	40602	PIGR_T1	2	8	6	0.2	0.35	0.15	0.32	0.32	0	0	0	0	0	0
7/4/2024 13:22	40601	PIGR_T1	2	2	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/4/2024 13:23	64101	REFR_T1	10	11	1	2.48	2.46	-0.02	0.33	0.35	0	0	0	0	0	0
7/4/2024 13:23	61102	BERK_T5	0	0	0	0	0	0	1.4	1.41	1	1	0	300	300	0
7/4/2024 13:23	59101	WALK_T2	1	1	0	0.2	0	-0.2	0.01	0.01	1	1	0	600	600	0
7/4/2024 13:24	59101	WALK_T2	1	1	0	0.2	0	-0.2	0.01	0.01	1	1	0	600	600	0
7/4/2024 13:25	61102	BERK_T5	0	0	0	0	0	0	1.4	1.41	1	1	0	300	300	0
7/4/2024 13:26	59101	WALK_T2	1	1	0	0.2	0	-0.2	0.01	0.01	1	1	0	600	600	0
7/4/2024 13:26	61102	BERK_T5	0	0	0	0	0	0	4.19	4.23	3	3	0	900	900	0
7/4/2024 13:27	61102	BERK_T5	0	0	0	0	0	0	1.4	1.41	1	1	0	300	300	0
7/4/2024 13:28	61102	BERK_T5	0	0	0	0	0	0	1.4	1.41	1	1	0	300	300	0
7/4/2024 13:29	20601	GRWO_T2	6	13	7	0.45	0.55	0.1	0.21	0.2	0	0	0	0	0	0
7/4/2024 13:30	64403	LAND_T1	0	0	0	0	0	0	-1.61	-1.61	1	1	0	900	900	0
7/4/2024 13:32	52404	GRPA_T2	6	1	-5	0.37	0	-0.37	0	0	0	0	0	0	0	0
7/4/2024 13:32	52403	GRPA_T2	80	69	-11	1.57	1.06	-0.51	-0.23	-0.26	0	0	0	0	0	0
7/4/2024 13:32	52402	GRPA_T2	97	91	-6	1.82	1.19	-0.63	0	0	0	0	0	0	0	0
7/4/2024 13:32	52401	GRPA_T2	62	27	-35	0.72	0.3	-0.42	0	0	0	0	0	0	0	0
7/4/2024 13:33	46803	HEPB_T2	2	2	0	0.25	0.2	-0.05	0.57	0.58	0	0	0	0	0	0
7/4/2024 13:33	65402	MARI_T1	13	25	12	0.48	0.46	-0.02	0	0	0	0	0	0	0	0
7/4/2024 13:33	46801	HEPB_T2	3	4	1	0.63	0.73	0.1	0	0	0	0	0	0	0	0
7/4/2024 13:33	65401	MARI_T1	17	17	0	4.17	3.46	-0.71	0	0	0	0	0	0	0	0
7/4/2024 13:34	42901	MIDD_T2	3	3	0	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/4/2024 13:34	52404	GRPA_T2	6	1	-5	0.37	0	-0.37	0	0	0	0	0	0	0	0
7/4/2024 13:34	52401	GRPA_T2	62	27	-35	0.72	0.3	-0.42	0	0	0	0	0	0	0	0
7/4/2024 13:34	52403	GRPA_T2	80	69	-11	1.57	1.06	-0.51	-0.23	-0.26	0	0	0	0	0	0
7/4/2024 13:34	42902	MIDD_T2	53	54	1	1.9	0.99	-0.91	-0.08	-0.11	0	0	0	0	0	0
7/4/2024 13:34	52402	GRPA_T2	97	91	-6	1.82	1.19	-0.63	0	0	0	0	0	0	0	0
7/4/2024 13:34	42903	MIDD_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
7/4/2024 13:35	52501	PROG_T1	0	0	0	0	0	0	-0.07	-0.02	1	1	0	300	300	0
7/4/2024 13:38	67701	WERN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/4/2024 13:38	40601	PIGR_T1	2	3	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/4/2024 13:38	66901	SHIL_T2	0	34	34	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 13:38	67001	STHI_T2	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
7/4/2024 13:38	40602	PIGR_T1	6	8	2	0.28	0.7	0.42	0.32	0.38	0	0	0	0	0	0
7/4/2024 13:38	66903	SHIL_T2	0	0	0	0	0	0	-0.89	-0.81	0	0	0	0	0	0
7/4/2024 13:38	40603	PIGR_T1	7	34	27	0.27	0.39	0.12	0	0	0	0	0	0	0	0
7/4/2024 13:38	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/4/2024 13:38	67702	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 13:42	61301	EARL_T1	0	0	0	0	0	0	-0.25	-0.23	1	1	0	900	900	0
7/4/2024 13:42	61304	EARL_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 13:43	20601	GRWO_T2	12	8	-4	0.56	0.55	-0.01	0	0	0	0	0	0	0	0
7/4/2024 13:43	20603	GRWO_T2	0	0	0	0	0	0	-0.25	-0.27	1	1	0	900	900	0
7/4/2024 13:44	61301	EARL_T1	0	0	0	0	0	0	-0.25	-0.23	1	1	0	900	900	0
7/4/2024 13:44	61304	EARL_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 13:45	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 13:45	61301	EARL_T1	0	0	0	0	0	0	-0.25	-0.23	1	1	0	900	900	0
7/4/2024 13:46	16402	MOPO_T1	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 13:46	16406	MOPO_T1	0	0	0	0	0	0	0.72	0.7	0	0	0	0	0	0
7/4/2024 13:47	24105	EHAZ_T1	4	4	0	6.43	6.53	0.1	0	0	0	0	0	0	0	0
7/4/2024 13:47	24102	EHAZ_T1	3	16	13	0.5	0.41	-0.09	0.1	0.1	0	0	0	0	0	0
7/4/2024 13:47	24101	EHAZ_T1	24	28	4	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
7/4/2024 13:48	47401	PENS_T1	6	9	3	0.72	0.7	-0.02	0.62	0.25	0	0	0	0	0	0
7/4/2024 13:48	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 13:48	47403	PENS_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/4/2024 13:49	20403	ASHF_T2	59	87	28	0.53	0.44	-0.09	1.24	1.26	0	0	0	0	0	0
7/4/2024 13:49	64204	KINZ_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
7/4/2024 13:49	20401	ASHF_T2	6	11	5	1.02	0.94	-0.08	0	0	0	0	0	0	0	0
7/4/2024 13:49	20402	ASHF_T2	7	19	12	1.7	1.07	-0.63	0	0	0	0	0	0	0	0
7/4/2024 13:49	64203	KINZ_T1	2	2	0	1.4	1.3	-0.1	0.03	0	2	2	0	900	900	0
7/4/2024 13:50	64204	KINZ_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
7/4/2024 13:50	64203	KINZ_T1	2	2	0	1.4	1.3	-0.1	0.03	0	2	2	0	900	900	0
7/4/2024 13:51	51004	NHAR_T1	1	2	1	7	7.2	0.2	-1.42	-1.39	0	0	0	0	0	0
7/4/2024 13:51	64202	KINZ_T1	0	0	0	0	0	0	1.72	1.8	0	0	0	0	0	0
7/4/2024 13:51	64204	KINZ_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
7/4/2024 13:51	42201	SHEN_T2	0	0	0	0	0	0	0.46	0.47	1	1	0	600	600	0
7/4/2024 13:51	64203	KINZ_T1	2	2	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
7/4/2024 13:52	43304	WATS_T2	4	18	14	0.55	0.63	0.08	-0.32	-0.11	0	0	0	0	0	0
7/4/2024 13:52	43301	WATS_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/4/2024 13:52	57006	WHHI_T2	0	0	0	0	0	0	2.09	2.06	2	2	0	1200	1200	0
7/4/2024 13:52	42701	AUGU_T1	59	65	6	1.23	1.14	-0.09	0	0	2	2	0	1800	1800	0
7/4/2024 13:53	43304	WATS_T2	4	18	14	0.55	0.63	0.08	-0.63	-0.23	0	0	0	0	0	0
7/4/2024 13:53	57401	SPAN_T1	59	229	170	0.48	0.43	-0.05	-0.18	-0.26	1	1	0	600	600	0
7/4/2024 13:53	43301	WATS_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/4/2024 13:53	57403	SPAN_T1	4	6	2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/4/2024 13:54	43301	WATS_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/4/2024 13:54	43304	WATS_T2	4	18	14	0.55	0.63	0.08	-0.47	-0.17	0	0	0	0	0	0
7/4/2024 13:55	43304	WATS_T2	4	18	14	0.55	0.63	0.08	-0.32	-0.11	0	0	0	0	0	0
7/4/2024 13:55	43301	WATS_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/4/2024 13:56	43304	WATS_T2	4	18	14	0.55	0.63	0.08	-0.32	-0.11	0	0	0	0	0	0
7/4/2024 13:56	43301	WATS_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/4/2024 13:57	64203	KINZ_T1	2	2	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
7/4/2024 13:57	43301	WATS_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/4/2024 13:57	43304	WATS_T2	4	18	14	0.55	0.63	0.08	-0.32	-0.11	0	0	0	0	0	0
7/4/2024 13:57	64204	KINZ_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
7/4/2024 13:57	64202	KINZ_T1	0	0	0	0	0	0	1.72	1.8	0	0	0	0	0	0
7/4/2024 13:58	52004	LING_T2	0	3	3	0	0.3	0.3	0.69	0.73	0	0	0	0	0	0
7/4/2024 13:58	52006	LING_T2	5	5	0	0.24	0.3	0.06	0	0	0	0	0	0	0	0
7/4/2024 13:58	52002	LING_T2	4	3	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 13:59	42201	SHEN_T2	0	0	0	0	0	0	0.47	0.5	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/4/2024 13:59	47001	HUGH_T2	4	3	-1	5.4	7.97	2.57	-0.84	-0.86	1	1	0	900	900	0
7/4/2024 13:59	11507	FREE_T2	4	6	2	0.78	0.17	-0.61	0.01	0.06	1	1	0	600	600	0
7/4/2024 14:01	47001	HUGH_T2	3	3	0	7.77	7.97	0.2	-0.84	-0.86	1	1	0	900	900	0
7/4/2024 14:02	25402	LAHA_T2	0	0	0	0	0	0	-0.03	-0.31	0	0	0	0	0	0
7/4/2024 14:04	64304	LINC_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 14:04	64302	LINC_T2	5	10	5	0.4	0.57	0.17	1.65	1.67	0	0	0	0	0	0
7/4/2024 14:05	53801	MBRG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 14:05	61301	EARL_T1	0	0	0	0	0	0	-0.23	-0.23	1	1	0	900	900	0
7/4/2024 14:05	53803	MBRG_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
7/4/2024 14:05	64203	KINZ_T1	2	2	0	1.3	1.5	0.2	0	-0.04	2	2	0	900	900	0
7/4/2024 14:05	61303	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 14:05	64204	KINZ_T1	2	1	-1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/4/2024 14:06	14605	SWHI_T1	4	6	2	0.58	0.9	0.32	0	0	0	0	0	0	0	0
7/4/2024 14:06	14602	SWHI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/4/2024 14:06	64204	KINZ_T1	2	1	-1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/4/2024 14:06	61303	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 14:06	64203	KINZ_T1	2	2	0	1.3	1.5	0.2	0	-0.04	2	2	0	900	900	0
7/4/2024 14:06	61301	EARL_T1	0	0	0	0	0	0	-0.23	-0.23	1	1	0	900	900	0
7/4/2024 14:07	49804	UNIV_T1	1	2	1	1.5	0	-1.5	0	0	0	0	0	0	0	0
7/4/2024 14:07	49803	UNIV_T1	1	0	-1	0.2	0	-0.2	-1.35	-1.33	0	0	0	0	0	0
7/4/2024 14:08	20402	ASHF_T2	11	29	18	1.97	0.65	-1.32	0	0	0	0	0	0	0	0
7/4/2024 14:08	20403	ASHF_T2	52	91	39	0.46	0.48	0.02	1.29	1.3	0	0	0	0	0	0
7/4/2024 14:08	66504	SMAN_T2	7	7	0	0.33	0.33	0.03	0	0	0	0	0	0	0	0
7/4/2024 14:08	66505	SMAN_T2	62	187	125	0.42	0.42	0	0.73	0.51	4	4	0	2300	2300	0
7/4/2024 14:08	20401	ASHF_T2	11	10	-1	0.97	0.86	-0.11	0	0	0	0	0	0	0	0
7/4/2024 14:09	56801	BENV_T1	9	9	0	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
7/4/2024 14:09	56803	BENV_T1	12	11	-1	2.83	3.78	0.95	0.15	0.15	1	1	0	600	600	0
7/4/2024 14:10	56803	BENV_T1	12	11	-1	2.83	3.78	0.95	0	0	0	0	0	0	0	0
7/4/2024 14:10	56801	BENV_T1	9	9	0	0.53	0.4	-0.13	0.16	0.13	2	2	0	1200	1200	0
7/4/2024 14:11	56803	BENV_T1	12	11	-1	2.83	3.78	0.95	0	0	0	0	0	0	0	0
7/4/2024 14:11	56801	BENV_T1	9	9	0	0.53	0.4	-0.13	0.08	0.07	1	1	0	600	600	0
7/4/2024 14:12	41602	CLEV_T1	148	103	-45	0.93	1.09	0.16	0	0	1	1	0	600	600	0
7/4/2024 14:12	56803	BENV_T1	12	11	-1	2.83	3.78	0.95	0	0	0	0	0	0	0	0
7/4/2024 14:12	56801	BENV_T1	9	9	0	0.53	0.4	-0.13	0.08	0.07	1	1	0	600	600	0
7/4/2024 14:13	56801	BENV_T1	9	9	0	0.53	0.4	-0.13	0.31	0.27	4	4	0	2400	2400	0
7/4/2024 14:13	56803	BENV_T1	12	11	-1	2.83	3.78	0.95	0	0	0	0	0	0	0	0
7/4/2024 14:14	52004	LING_T2	1	4	3	0.3	0.6	0.3	0.73	0.7	0	0	0	0	0	0
7/4/2024 14:14	46203	DANV_T2	8	11	3	0.36	0	-0.36	-1.15	-1.11	0	0	0	0	0	0
7/4/2024 14:14	52006	LING_T2	4	6	2	0.3	0.6	0.3	0	0	0	0	0	0	0	0
7/4/2024 14:14	52002	LING_T2	0	25	25	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 14:14	46206	DANV_T2	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
7/4/2024 14:14	41602	CLEV_T1	148	103	-45	0.93	1.09	0.16	0	0	1	1	0	600	600	0
7/4/2024 14:17	40101	HUNT_T2	278	470	192	0.62	0.72	0.1	-0.14	-0.12	0	0	0	0	0	0
7/4/2024 14:19	47402	PENS_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 14:19	47401	PENS_T1	5	7	2	0.64	0.57	-0.07	0.21	0.12	0	0	0	0	0	0
7/4/2024 14:20	64101	REFR_T1	26	39	13	1.73	1.36	-0.37	0.38	0.36	0	0	0	0	0	0
7/4/2024 14:22	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 14:22	43304	WATS_T2	18	7	-11	0.47	0.45	-0.02	-0.62	-0.68	1	1	0	600	600	0
7/4/2024 14:25	43304	WATS_T2	18	7	-11	0.47	0.45	-0.02	-0.62	-0.68	1	1	0	600	600	0
7/4/2024 14:25	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 14:27	64204	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/4/2024 14:27	61301	EARL_T1	0	0	0	0	0	0	-0.23	-0.25	1	1	0	900	900	0
7/4/2024 14:27	64203	KINZ_T1	2	2	0	1.75	1.5	-0.25	0.01	0.08	2	2	0	900	900	0
7/4/2024 14:27	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 14:27	61303	EARL_T1	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
7/4/2024 14:28	64204	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/4/2024 14:28	61303	EARL_T1	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
7/4/2024 14:28	61301	EARL_T1	0	0	0	0	0	0	-0.23	-0.25	1	1	0	900	900	0
7/4/2024 14:28	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 14:28	64203	KINZ_T1	2	2	0	1.75	1.5	-0.25	0.01	0.08	2	2	0	900	900	0
7/4/2024 14:30	54502	ENOL_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 14:30	47101	MARL_T1	65	100	35	0.85	1.07	0.22	-0.59	-0.53	1	1	0	600	600	0
7/4/2024 14:30	47104	MARL_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/4/2024 14:30	54503	ENOL_T2	2	1	-1	0.5	0	-0.5	-1.42	-1.44	1	1	0	600	600	0
7/4/2024 14:31	52404	GRPA_T2	3	3	0	0.43	0.7	0.27	0	0	0	0	0	0	0	0
7/4/2024 14:31	52401	GRPA_T2	72	91	19	0.99	0.78	-0.21	0	0	0	0	0	0	0	0
7/4/2024 14:31	52402	GRPA_T2	74	95	21	0.65	0.79	0.14	0	0	0	0	0	0	0	0
7/4/2024 14:31	52403	GRPA_T2	65	180	115	0.74	1.03	0.29	-0.18	-0.16	0	0	0	0	0	0
7/4/2024 14:32	52401	GRPA_T2	72	91	19	0.99	0.78	-0.21	0	0	0	0	0	0	0	0
7/4/2024 14:32	47101	MARL_T1	65	100	35	0.85	1.07	0.22	-1.18	-1.07	2	2	0	1200	1200	0
7/4/2024 14:32	52402	GRPA_T2	74	95	21	0.65	0.79	0.14	-0.29	-0.3	0	0	0	0	0	0
7/4/2024 14:32	52404	GRPA_T2	3	3	0	0.43	0.7	0.27	-0.13	-0.11	0	0	0	0	0	0
7/4/2024 14:32	47104	MARL_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/4/2024 14:32	52403	GRPA_T2	65	180	115	0.74	1.03	0.29	0	0	0	0	0	0	0	0
7/4/2024 14:33	47402	PENS_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 14:33	47401	PENS_T1	3	6	3	0.57	1.6	1.03	0.12	0.25	0	0	0	0	0	0
7/4/2024 14:34	52403	GRPA_T2	65	180	115	0.74	1.03	0.29	0	0	0	0	0	0	0	0
7/4/2024 14:34	52401	GRPA_T2	72	91	19	0.99	0.78	-0.21	0	0	0	0	0	0	0	0
7/4/2024 14:34	52404	GRPA_T2	3	3	0	0.43	0.7	0.27	0	0	0	0	0	0	0	0
7/4/2024 14:34	52402	GRPA_T2	74	95	21	0.65	0.79	0.14	-0.29	-0.3	0	0	0	0	0	0
7/4/2024 14:35	47401	PENS_T1	3	6	3	0.57	1.6	1.03	0.12	0.25	0	0	0	0	0	0
7/4/2024 14:35	57401	SPAN_T1	172	194	22	0.5	0.43	-0.07	-0.22	-0.2	1	1	0	600	600	0
7/4/2024 14:35	47402	PENS_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 14:35	57403	SPAN_T1	8	3	-5	0.41	0	-0.41	0	0	0	0	0	0	0	0
7/4/2024 14:37	64101	REFR_T1	34	47	13	1.38	1.57	0.19	0.36	0.38	0	0	0	0	0	0
7/4/2024 14:38	57403	SPAN_T1	8	3	-5	0.41	0	-0.41	0	0	0	0	0	0	0	0
7/4/2024 14:38	57401	SPAN_T1	172	194	22	0.5	0.43	-0.07	-0.2	-0.14	1	1	0	600	600	0
7/4/2024 14:38	47101	MARL_T1	65	100	35	0.85	1.07	0.22	-0.53	-0.62	1	1	0	600	600	0
7/4/2024 14:38	47104	MARL_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/4/2024 14:42	56501	ROCK_T2	3	5	2	0.57	0.97	0.4	-2.01	-1.98	0	0	0	0	0	0
7/4/2024 14:42	56504	ROCK_T2	17	39	22	0.49	0.46	-0.03	0	0	0	0	0	0	0	0
7/4/2024 14:42	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 14:43	56501	ROCK_T2	3	5	2	0.57	0.97	0.4	-2.01	-1.98	0	0	0	0	0	0
7/4/2024 14:43	56504	ROCK_T2	17	39	22	0.49	0.46	-0.03	0	0	0	0	0	0	0	0
7/4/2024 14:43	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 14:44	52006	LING_T2	6	6	0	0.52	0.35	-0.17	0	0	0	0	0	0	0	0
7/4/2024 14:44	52004	LING_T2	3	4	1	0.73	2.2	1.47	0.69	0.66	0	0	0	0	0	0
7/4/2024 14:44	52002	LING_T2	23	63	40	0.16	0.26	0.1	0	0	0	0	0	0	0	0
7/4/2024 14:44	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 14:44	56501	ROCK_T2	3	5	2	0.57	0.97	0.4	-2.01	-1.98	0	0	0	0	0	0
7/4/2024 14:44	56504	ROCK_T2	17	39	22	0.49	0.46	-0.03	0	0	0	0	0	0	0	0
7/4/2024 14:46	56503	ROCK_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/4/2024 14:46	52006	LING_T2	6	6	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/4/2024 14:46	52004	LING_T2	2	3	1	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
7/4/2024 14:46	56501	ROCK_T2	4	5	1	0.78	0.6	-0.18	-4.02	-3.95	0	0	0	0	0	0
7/4/2024 14:46	52002	LING_T2	50	59	9	0.33	0.37	0.04	0.32	0.34	0	0	0	0	0	0
7/4/2024 14:46	56504	ROCK_T2	18	39	21	0.49	0.48	-0.01	0	0	0	0	0	0	0	0
7/4/2024 14:47	47101	MARL_T1	76	104	28	1.08	0.99	-0.09	-0.53	-0.62	1	1	0	600	600	0
7/4/2024 14:47	47104	MARL_T1	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/4/2024 14:48	53802	MBRG_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 14:48	53803	MBRG_T2	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
7/4/2024 14:50	61301	EARL_T1	0	0	0	0	0	0	-0.25	-0.23	1	1	0	900	900	0
7/4/2024 14:50	64202	KINZ_T1	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 14:50	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 14:50	64203	KINZ_T1	2	2	0	1.6	1.35	-0.25	0.08	-0.04	2	2	0	900	900	0
7/4/2024 14:50	64204	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 14:51	64202	KINZ_T1	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 14:51	61301	EARL_T1	0	0	0	0	0	0	-0.25	-0.23	1	1	0	900	900	0
7/4/2024 14:51	64203	KINZ_T1	2	2	0	1.6	1.35	-0.25	0.08	-0.04	2	2	0	900	900	0
7/4/2024 14:51	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 14:51	64204	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 14:52	14403	SSLA_T1	3	5	2	0.7	0.97	0.27	1.1	1.16	1	1	0	600	600	0
7/4/2024 14:52	14401	SSLA_T1	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/4/2024 14:52	14404	SSLA_T1	1	1	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
7/4/2024 14:55	43304	WATS_T2	4	19	15	0.65	0.54	-0.11	-0.62	-0.38	1	1	0	600	600	0
7/4/2024 14:56	56802	BENV_T2	0	0	0	0	0	0	-0.57	-0.49	0	0	0	0	0	0
7/4/2024 14:56	44302	BEAV_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/4/2024 14:56	55102	WERT_T2	2	1	-1	0.9	0.6	-0.3	-0.82	-0.79	1	1	0	600	600	0
7/4/2024 14:56	44301	BEAV_T2	33	83	50	0.52	0.77	0.25	-0.15	-0.15	1	1	0	600	600	0
7/4/2024 14:58	15001	BLMO_T1	36	26	-10	0.5	0.61	0.11	0	0	0	0	0	0	0	0
7/4/2024 14:58	44301	BEAV_T2	33	83	50	0.52	0.77	0.25	-0.15	-0.15	1	1	0	600	600	0
7/4/2024 14:58	44302	BEAV_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/4/2024 14:59	56504	ROCK_T2	18	39	21	0.49	0.48	-0.01	1.41	1.42	0	0	0	0	0	0
7/4/2024 14:59	56501	ROCK_T2	4	5	1	0.78	0.6	-0.18	0	0	0	0	0	0	0	0
7/4/2024 14:59	63804	HEMP_T1	1	3	2	7	6.9	-0.1	0	0	0	0	0	0	0	0
7/4/2024 14:59	63802	HEMP_T1	0	0	0	0	0	0	0.79	0.88	0	0	0	0	0	0
7/4/2024 14:59	11804	FRAN_T1	113	146	33	0.64	0.7	0.06	0.53	0.53	1	1	0	1200	1200	0
7/4/2024 14:59	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 14:59	56503	ROCK_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/4/2024 15:00	22901	HARW_T1	11	14	3	0.97	0.3	-0.67	-0.29	-0.32	1	1	0	1200	1200	0
7/4/2024 15:00	22903	HARW_T1	5	1	-4	0.18	0.7	0.52	0	0	0	0	0	0	0	0
7/4/2024 15:01	22901	HARW_T1	11	14	3	0.97	0.3	-0.67	-0.29	-0.32	1	1	0	1200	1200	0
7/4/2024 15:01	22903	HARW_T1	5	1	-4	0.18	0.7	0.52	0	0	0	0	0	0	0	0
7/4/2024 15:03	52401	GRPA_T2	90	83	-7	1.21	0.81	-0.4	0	0	0	0	0	0	0	0
7/4/2024 15:03	53802	MBRG_T2	0	1	1	0	0	0	-0.15	-0.21	0	0	0	0	0	0
7/4/2024 15:03	52404	GRPA_T2	3	14	11	0.63	0.3	-0.33	0	0	0	0	0	0	0	0
7/4/2024 15:03	16302	ALPA_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
7/4/2024 15:03	52403	GRPA_T2	180	183	3	1.6	1.46	-0.14	-0.09	-0.1	0	0	0	0	0	0
7/4/2024 15:03	52402	GRPA_T2	84	89	5	0.79	0.73	-0.06	0	0	0	0	0	0	0	0
7/4/2024 15:06	50701	SMEC_T1	0	0	0	0	0	0	-0.72	-0.78	2	2	0	2100	2100	0
7/4/2024 15:06	64801	MONE_T2	3	3	0	0.83	0.25	-0.58	0	0	0	0	0	0	0	0
7/4/2024 15:06	64802	MONE_T2	0	1	1	0	0	0	0.35	0.32	0	0	0	0	0	0
7/4/2024 15:07	64101	REFR_T1	44	36	-8	1.73	2.21	0.48	0.39	0.42	0	0	0	0	0	0
7/4/2024 15:07	43304	WATS_T2	10	21	11	0.54	0.74	0.2	-0.38	-0.34	1	1	0	600	600	0
7/4/2024 15:07	50701	SMEC_T1	0	0	0	0	0	0	-0.78	-0.76	2	2	0	2100	2100	0
7/4/2024 15:08	40101	HUNT_T2	463	569	106	0.91	0.93	0.02	-0.08	-0.06	0	0	0	0	0	0
7/4/2024 15:08	15001	BLMO_T1	22	32	10	0.68	0.51	-0.17	0	0	0	0	0	0	0	0
7/4/2024 15:11	44302	BEAV_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/4/2024 15:11	44301	BEAV_T2	69	119	50	0.8	0.72	-0.08	-0.15	-0.16	1	1	0	600	600	0
7/4/2024 15:12	61301	EARL_T1	0	0	0	0	0	0	-0.19	-0.22	1	1	0	900	900	0
7/4/2024 15:12	64203	KINZ_T1	2	2	0	1.35	1.5	0.15	-0.08	-0.07	2	2	0	900	900	0
7/4/2024 15:12	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 15:12	56501	ROCK_T2	4	8	4	2.78	0.43	-2.35	-2.01	-1.94	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/4/2024 15:12	64204	KINZ_T1	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 15:12	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 15:12	64202	KINZ_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 15:12	56504	ROCK_T2	39	37	-2	0.45	0.52	0.07	0	0	0	0	0	0	0	0
7/4/2024 15:13	64204	KINZ_T1	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 15:13	56504	ROCK_T2	39	37	-2	0.45	0.52	0.07	0.71	0.73	0	0	0	0	0	0
7/4/2024 15:13	64202	KINZ_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 15:13	56501	ROCK_T2	4	8	4	2.78	0.43	-2.35	-4.02	-3.89	0	0	0	0	0	0
7/4/2024 15:13	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 15:13	61301	EARL_T1	0	0	0	0	0	0	-0.19	-0.22	1	1	0	900	900	0
7/4/2024 15:13	64203	KINZ_T1	2	2	0	1.35	1.5	0.15	-0.08	-0.07	2	2	0	900	900	0
7/4/2024 15:13	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 15:15	56503	ROCK_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 15:15	56504	ROCK_T2	21	38	17	0.54	0.43	-0.11	0	0	0	0	0	0	0	0
7/4/2024 15:15	56501	ROCK_T2	3	9	6	0.43	0.4	-0.03	-2.01	-1.94	0	0	0	0	0	0
7/4/2024 15:16	11104	EGYP_T1	12	23	11	0.94	1.43	0.49	0.37	0.38	1	1	0	900	900	0
7/4/2024 15:16	64302	LINC_T2	29	29	0	0.46	0.38	-0.08	1.71	1.75	0	0	0	0	0	0
7/4/2024 15:16	64304	LINC_T2	4	8	4	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
7/4/2024 15:16	11102	EGYP_T1	8	13	5	0.39	0.49	0.1	0	0	0	0	0	0	0	0
7/4/2024 15:16	52001	LING_T1	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
7/4/2024 15:16	11101	EGYP_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 15:17	52402	GRPA_T2	83	92	9	0.73	0.87	0.14	0	0	0	0	0	0	0	0
7/4/2024 15:17	52404	GRPA_T2	12	16	4	0.41	0.15	-0.26	0	0	0	0	0	0	0	0
7/4/2024 15:17	52401	GRPA_T2	77	82	5	0.84	0.65	-0.19	0	0	0	0	0	0	0	0
7/4/2024 15:17	52403	GRPA_T2	116	160	44	1.84	1.33	-0.51	-0.1	-0.19	0	0	0	0	0	0
7/4/2024 15:18	52402	GRPA_T2	83	92	9	0.73	0.87	0.14	-0.91	-0.34	1	0	-1	600	0	-600
7/4/2024 15:18	52404	GRPA_T2	12	16	4	0.41	0.15	-0.26	0	0	0	0	0	0	0	0
7/4/2024 15:18	52401	GRPA_T2	77	82	5	0.84	0.65	-0.19	0	0	0	0	0	0	0	0
7/4/2024 15:18	52403	GRPA_T2	116	160	44	1.84	1.33	-0.51	0	0	0	0	0	0	0	0
7/4/2024 15:24	67801	WLAN_T1	16	19	3	0.26	0.15	-0.11	-0.52	-0.56	0	0	0	0	0	0
7/4/2024 15:24	67804	WLAN_T1	10	10	0	0.95	1.03	0.08	0	0	0	0	0	0	0	0
7/4/2024 15:26	44301	BEAV_T2	76	142	66	0.79	0.62	-0.17	-0.16	-0.15	1	1	0	600	600	0
7/4/2024 15:28	56503	ROCK_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 15:28	56504	ROCK_T2	21	38	17	0.54	0.43	-0.11	0	0	0	0	0	0	0	0
7/4/2024 15:28	56501	ROCK_T2	3	9	6	0.43	0.4	-0.03	-7.78	-7.64	0	0	0	0	0	0
7/4/2024 15:30	52002	LING_T2	37	70	33	0.44	0.5	0.06	0.44	0.45	0	0	0	0	0	0
7/4/2024 15:30	52006	LING_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 15:30	56501	ROCK_T2	7	9	2	0.76	3.17	2.41	-1.94	-1.91	0	0	0	0	0	0
7/4/2024 15:30	56504	ROCK_T2	37	33	-4	0.6	0.32	-0.28	0	0	0	0	0	0	0	0
7/4/2024 15:30	52004	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 15:30	56503	ROCK_T2	1	4	3	0.2	0.53	0.33	0	0	0	0	0	0	0	0
7/4/2024 15:31	56503	ROCK_T2	1	4	3	0.2	0.53	0.33	0	0	0	0	0	0	0	0
7/4/2024 15:31	56501	ROCK_T2	7	9	2	0.76	3.17	2.41	-1.94	-1.91	0	0	0	0	0	0
7/4/2024 15:31	56504	ROCK_T2	37	33	-4	0.6	0.32	-0.28	0	0	0	0	0	0	0	0
7/4/2024 15:33	13103	NHAM_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 15:33	13105	NHAM_T2	8	18	10	0.44	0.79	0.35	-1.59	-1.61	1	1	0	1200	1200	0
7/4/2024 15:33	52403	GRPA_T2	159	89	-70	1.23	1.31	0.08	-0.19	-0.34	0	0	0	0	0	0
7/4/2024 15:33	52401	GRPA_T2	82	103	21	0.92	0.65	-0.27	0	0	0	0	0	0	0	0
7/4/2024 15:33	52402	GRPA_T2	88	96	8	0.87	1.23	0.36	0	0	0	0	0	0	0	0
7/4/2024 15:33	65803	RTWN_T2	7	7	0	0.24	0.36	0.12	0	0	0	0	0	0	0	0
7/4/2024 15:33	52404	GRPA_T2	3	16	13	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 15:33	65802	RTWN_T2	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
7/4/2024 15:34	56501	ROCK_T2	7	9	2	0.76	3.17	2.41	0	0	0	0	0	0	0	0
7/4/2024 15:34	56503	ROCK_T2	1	4	3	0.2	0.53	0.33	0	0	0	0	0	0	0	0
7/4/2024 15:34	56504	ROCK_T2	37	33	-4	0.6	0.32	-0.28	0.73	0.76	0	0	0	0	0	0
7/4/2024 15:35	64204	KINZ_T1	4	1	-3	0.23	0.5	0.27	0	0	0	0	0	0	0	0
7/4/2024 15:35	64203	KINZ_T1	2	1	-1	1.8	1.5	-0.3	-0.07	-1	2	3	1	900	2100	1200
7/4/2024 15:36	46301	ROHR_T1	1	3	2	0.8	0.37	-0.43	0	0	0	0	0	0	0	0
7/4/2024 15:36	46302	ROHR_T1	8	10	2	2.23	1.8	-0.43	0.52	0.57	0	0	0	0	0	0
7/4/2024 15:36	64203	KINZ_T1	2	1	-1	1.8	1.5	-0.3	-0.07	-1	2	3	1	900	2100	1200
7/4/2024 15:36	64204	KINZ_T1	4	1	-3	0.23	0.5	0.27	0	0	0	0	0	0	0	0
7/4/2024 15:37	64101	REFR_T1	32	64	32	2.03	1.64	-0.39	0.43	0.42	0	0	0	0	0	0
7/4/2024 15:37	20601	GRWO_T2	49	98	49	0.48	0.64	0.16	0.3	0.33	0	0	0	0	0	0
7/4/2024 15:38	43304	WATS_T2	15	15	0	0.73	0.64	-0.09	-0.3	-0.29	1	1	0	600	600	0
7/4/2024 15:46	52404	GRPA_T2	15	5	-10	0.41	0.1	-0.31	0	0	0	0	0	0	0	0
7/4/2024 15:46	52402	GRPA_T2	92	94	2	1.21	1.34	0.13	0	0	0	0	0	0	0	0
7/4/2024 15:46	52403	GRPA_T2	74	185	111	1.32	1.71	0.39	-0.34	-0.39	0	0	0	0	0	0
7/4/2024 15:46	52401	GRPA_T2	60	103	43	0.65	1.07	0.42	0	0	0	0	0	0	0	0
7/4/2024 15:47	52006	LING_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 15:47	52002	LING_T2	53	84	31	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
7/4/2024 15:47	52004	LING_T2	0	1	1	0	0.2	0.2	0.59	0.5	0	0	0	0	0	0
7/4/2024 15:48	52403	GRPA_T2	74	185	111	1.32	1.71	0.39	0	0	0	0	0	0	0	0
7/4/2024 15:48	52401	GRPA_T2	60	103	43	0.65	1.07	0.42	0	0	0	0	0	0	0	0
7/4/2024 15:48	52402	GRPA_T2	92	94	2	1.21	1.34	0.13	-0.32	-0.33	0	0	0	0	0	0
7/4/2024 15:48	52404	GRPA_T2	15	5	-10	0.41	0.1	-0.31	0	0	0	0	0	0	0	0
7/4/2024 15:48	44203	POIN_T2	35	50	15	1.67	1.9	0.23	-0.12	-0.14	2	2	0	2100	2100	0
7/4/2024 15:49	52403	GRPA_T2	74	185	111	1.32	1.71	0.39	-0.34	-0.39	0	0	0	0	0	0
7/4/2024 15:49	52402	GRPA_T2	92	94	2	1.21	1.34	0.13	0	0	0	0	0	0	0	0
7/4/2024 15:49	52404	GRPA_T2	15	5	-10	0.41	0.1	-0.31	0	0	0	0	0	0	0	0
7/4/2024 15:49	52401	GRPA_T2	60	103	43	0.65	1.07	0.42	0	0	0	0	0	0	0	0
7/4/2024 15:50	44203	POIN_T2	35	50	15	1.67	1.9	0.23	-0.12	-0.14	2	2	0	2100	2100	0
7/4/2024 15:51	52403	GRPA_T2	74	185	111	1.32	1.71	0.39	0	0	0	0	0	0	0	0
7/4/2024 15:51	52404	GRPA_T2	15	5	-10	0.41	0.1	-0.31	0	0	0	0	0	0	0	0
7/4/2024 15:51	52402	GRPA_T2	92	94	2	1.21	1.34	0.13	-0.32	-0.33	0	0	0	0	0	0
7/4/2024 15:51	52401	GRPA_T2	60	103	43	0.65	1.07	0.42	0	0	0	0	0	0	0	0
7/4/2024 15:53	67701	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 15:53	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/4/2024 15:53	44203	POIN_T2	35	50	15	1.67	1.9	0.23	-0.14	-0.14	2	2	0	2100	2100	0
7/4/2024 15:54	56803	BENV_T1	7	5	-2	3.34	3.38	0.04	0	0	0	0	0	0	0	0
7/4/2024 15:54	56801	BENV_T1	2	3	1	0.25	0.23	-0.02	-0.47	-0.45	2	2	0	1200	1200	0
7/4/2024 15:55	56803	BENV_T1	7	5	-2	3.34	3.38	0.04	0	0	0	0	0	0	0	0
7/4/2024 15:55	56801	BENV_T1	2	3	1	0.25	0.23	-0.02	-1.89	-1.79	8	8	0	4800	4800	0
7/4/2024 15:56	62102	ELAN_T1	0	0	0	0	0	0	1.21	1.33	0	0	0	0	0	0
7/4/2024 15:56	56801	BENV_T1	2	3	1	0.25	0.23	-0.02	-0.47	-0.45	2	2	0	1200	1200	0
7/4/2024 15:56	56803	BENV_T1	7	5	-2	3.34	3.38	0.04	0	0	0	0	0	0	0	0
7/4/2024 15:57	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 15:57	64203	KINZ_T1	1	1	0	1.6	1.5	-0.1	-0.93	-1.07	3	3	0	2100	2100	0
7/4/2024 15:57	64204	KINZ_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/4/2024 15:57	64201	KINZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 15:57	56801	BENV_T1	2	3	1	0.25	0.23	-0.02	-0.47	-0.45	2	2	0	1200	1200	0
7/4/2024 15:57	56803	BENV_T1	7	5	-2	3.34	3.38	0.04	0	0	0	0	0	0	0	0
7/4/2024 15:58	64201	KINZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 15:58	56803	BENV_T1	7	5	-2	3.34	3.38	0.04	0	0	0	0	0	0	0	0
7/4/2024 15:58	56801	BENV_T1	2	3	1	0.25	0.23	-0.02	-0.47	-0.45	2	2	0	1200	1200	0
7/4/2024 15:58	52004	LING_T2	0	1	1	0	0.2	0.2	0.5	0.43	0	0	0	0	0	0
7/4/2024 15:58	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 15:58	52002	LING_T2	53	84	31	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
7/4/2024 15:58	52006	LING_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 15:58	64204	KINZ_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/4/2024 15:58	64203	KINZ_T1	1	1	0	1.6	1.5	-0.1	-0.93	-1.07	3	3	0	2100	2100	0
7/4/2024 15:59	41602	CLEV_T1	169	201	32	1.23	1.06	-0.17	0	0	1	1	0	600	600	0
7/4/2024 16:02	52402	GRPA_T2	94	93	-1	1.51	1.34	-0.17	0	0	0	0	0	0	0	0
7/4/2024 16:02	52404	GRPA_T2	1	32	31	0.1	0.22	0.12	0	0	0	0	0	0	0	0
7/4/2024 16:02	52403	GRPA_T2	89	203	114	1.69	1.31	-0.38	-0.39	-0.02	0	0	0	0	0	0
7/4/2024 16:02	52401	GRPA_T2	103	104	1	1.49	1.07	-0.42	0	0	0	0	0	0	0	0
7/4/2024 16:04	64101	REFR_T1	63	85	22	1.4	1.43	0.03	0.42	0.47	0	0	0	0	0	0
7/4/2024 16:10	61303	EARL_T1	0	0	0	0	0	0	0.17	0.26	0	0	0	0	0	0
7/4/2024 16:19	58701	ROSE_T2	4	5	1	0.33	0.4	0.07	0	0	0	0	0	0	0	0
7/4/2024 16:19	58706	ROSE_T2	5	3	-2	0.64	1.35	0.71	0.6	0.61	1	1	0	600	600	0
7/4/2024 16:19	58704	ROSE_T2	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
7/4/2024 16:20	64201	KINZ_T1	3	3	0	0.2	1.2	1	0	0	0	0	0	0	0	0
7/4/2024 16:20	64202	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/4/2024 16:20	64204	KINZ_T1	1	5	4	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/4/2024 16:20	64101	REFR_T1	68	85	17	1.41	1.57	0.16	0.47	0.48	0	0	0	0	0	0
7/4/2024 16:20	64203	KINZ_T1	1	2	1	1.7	1	-0.7	-1.07	-1.02	3	3	0	2100	2100	0
7/4/2024 16:21	64201	KINZ_T1	3	3	0	0.2	1.2	1	0	0	0	0	0	0	0	0
7/4/2024 16:21	64203	KINZ_T1	1	2	1	1.7	1	-0.7	-1.07	-1.02	3	3	0	2100	2100	0
7/4/2024 16:21	64202	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/4/2024 16:21	64204	KINZ_T1	1	5	4	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/4/2024 16:30	63401	HONY_T1	0	0	0	0	0	0	0.51	0.6	0	0	0	0	0	0
7/4/2024 16:32	52401	GRPA_T2	104	117	13	1.36	1.17	-0.19	0	0	0	0	0	0	0	0
7/4/2024 16:32	52404	GRPA_T2	32	70	38	0.44	0.51	0.07	0	0	0	0	0	0	0	0
7/4/2024 16:32	52403	GRPA_T2	192	229	37	1.26	1.34	0.08	-0.02	-0.15	0	0	0	0	0	0
7/4/2024 16:32	60502	NMAN_T2	4	5	1	0.5	0.43	-0.07	0.09	0.1	0	0	0	0	0	0
7/4/2024 16:32	52402	GRPA_T2	92	107	15	1.4	1.77	0.37	0	0	0	0	0	0	0	0
7/4/2024 16:32	60501	NMAN_T2	3	3	0	3.43	3.37	-0.06	0	0	0	0	0	0	0	0
7/4/2024 16:32	60504	NMAN_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/4/2024 16:34	66701	STRA_T1	7	5	-2	0.57	0.83	0.26	0	0	0	0	0	0	0	0
7/4/2024 16:34	66703	STRA_T1	19	17	-2	0.48	0.24	-0.24	0.11	0.03	0	0	0	0	0	0
7/4/2024 16:34	64204	KINZ_T1	4	2	-2	0.35	0.5	0.15	0	0	0	0	0	0	0	0
7/4/2024 16:34	64201	KINZ_T1	3	1	-2	1.03	0	-1.03	0	0	0	0	0	0	0	0
7/4/2024 16:34	64203	KINZ_T1	2	1	-1	0.9	0.7	-0.2	-1.02	-0.96	3	3	0	2100	2100	0
7/4/2024 16:35	64101	REFR_T1	84	83	-1	1.56	1.44	-0.12	0.48	0.49	0	0	0	0	0	0
7/4/2024 16:38	57106	SPHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 16:38	57103	SPHI_T2	0	0	0	0	0	0	-0.08	-0.08	1	1	0	600	600	0
7/4/2024 16:40	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 16:40	29402	BELT_T1	97	80	-17	1.13	1.26	0.13	0	0	0	0	0	0	0	0
7/4/2024 16:41	43304	WATS_T2	40	75	35	0.5	0.64	0.14	-0.31	-0.35	1	1	0	600	600	0
7/4/2024 16:43	64201	KINZ_T1	3	1	-2	1.03	0	-1.03	0	0	0	0	0	0	0	0
7/4/2024 16:43	64204	KINZ_T1	4	2	-2	0.35	0.5	0.15	0	0	0	0	0	0	0	0
7/4/2024 16:43	64203	KINZ_T1	2	1	-1	0.9	0.7	-0.2	-0.96	-1.08	3	3	0	2100	2100	0
7/4/2024 16:44	64203	KINZ_T1	2	1	-1	0.9	0.7	-0.2	-0.96	-1.08	3	3	0	2100	2100	0
7/4/2024 16:44	64201	KINZ_T1	3	1	-2	1.03	0	-1.03	0	0	0	0	0	0	0	0
7/4/2024 16:44	64204	KINZ_T1	4	2	-2	0.35	0.5	0.15	0	0	0	0	0	0	0	0
7/4/2024 16:47	61505	EPET_T1	0	0	0	0	0	0	0.96	0.95	0	0	0	0	0	0
7/4/2024 16:49	66505	SMAN_T2	104	59	-45	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
7/4/2024 16:49	66503	SMAN_T2	24	8	-16	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/4/2024 16:49	66504	SMAN_T2	11	25	14	0.27	0.39	0.12	0.04	0.04	0	0	0	0	0	0
7/4/2024 16:50	67703	WERN_T2	3	11	8	0.27	0.5	0.23	-0.01	-0.01	1	1	0	900	900	0
7/4/2024 16:52	66505	SMAN_T2	104	59	-45	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
7/4/2024 16:52	66504	SMAN_T2	11	25	14	0.27	0.39	0.12	0.04	0.03	0	0	0	0	0	0
7/4/2024 16:52	66503	SMAN_T2	24	8	-16	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/4/2024 16:53	49804	UNIV_T1	9	11	2	0.67	0.66	-0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/4/2024 16:53	49803	UNIV_T1	3	19	16	0.5	0.53	0.03	-1.31	-1.31	0	0	0	0	0	0
7/4/2024 16:54	55408	SHER_T2	5	3	-2	0.5	0.65	0.15	-0.25	-0.21	1	1	0	1200	1200	0
7/4/2024 16:56	60201	ATGL_T2	0	1	1	0	0.1	0.1	0.43	0.34	2	2	0	900	900	0
7/4/2024 16:56	61703	ELIZ_T1	5	1	-4	0.22	1.4	1.18	0	0	0	0	0	0	0	0
7/4/2024 16:56	61701	ELIZ_T1	3	2	-1	0.13	0.25	0.12	1.44	1.57	0	0	0	0	0	0
7/4/2024 17:02	61701	ELIZ_T1	1	2	1	1.6	0.2	-1.4	1.44	1.57	0	0	0	0	0	0
7/4/2024 17:02	61703	ELIZ_T1	1	1	0	2.2	1.4	-0.8	0	0	0	0	0	0	0	0
7/4/2024 17:02	52404	GRPA_T2	62	11	-51	0.52	0.2	-0.32	0	0	0	0	0	0	0	0
7/4/2024 17:02	52403	GRPA_T2	170	161	-9	1.39	1.46	0.07	-0.1	-0.14	0	0	0	0	0	0
7/4/2024 17:02	52402	GRPA_T2	94	89	-5	1.77	0.86	-0.91	0	0	0	0	0	0	0	0
7/4/2024 17:02	52401	GRPA_T2	100	82	-18	1.21	0.73	-0.48	0	0	0	0	0	0	0	0
7/4/2024 17:06	64203	KINZ_T1	1	1	0	0.7	0.4	-0.3	-1.08	-1.09	3	3	0	2100	2100	0
7/4/2024 17:06	67703	WERN_T2	7	15	8	0.29	0.92	0.63	-0.01	-0.01	1	1	0	900	900	0
7/4/2024 17:06	64204	KINZ_T1	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/4/2024 17:07	64203	KINZ_T1	1	1	0	0.7	0.4	-0.3	-1.09	-1.12	3	3	0	2100	2100	0
7/4/2024 17:07	64204	KINZ_T1	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/4/2024 17:07	64101	REFR_T1	77	66	-11	1.44	1.75	0.31	0.47	0.47	0	0	0	0	0	0
7/4/2024 17:09	24901	WHHA_T1	1	1	0	0.3	0.3	0	-0.18	-0.22	0	0	0	0	0	0
7/4/2024 17:09	24902	WHHA_T1	3	4	1	0.87	0.95	0.08	0	0	0	0	0	0	0	0
7/4/2024 17:11	46001	BERW_T1	46	73	27	0.63	0.43	-0.2	2.97	2.97	0	0	0	0	0	0
7/4/2024 17:18	47104	MARL_T1	0	4	4	0	0.5	0.5	0	0	0	0	0	0	0	0
7/4/2024 17:18	47101	MARL_T1	189	208	19	1.27	1.28	0.01	-0.55	-0.51	1	1	0	600	600	0
7/4/2024 17:19	47101	MARL_T1	189	208	19	1.27	1.28	0.01	-1.11	-1.02	2	2	0	1200	1200	0
7/4/2024 17:19	47104	MARL_T1	0	4	4	0	0.5	0.5	0	0	0	0	0	0	0	0
7/4/2024 17:20	55003	NEWP_T2	114	111	-3	1.32	0.49	-0.83	-0.66	-0.66	1	1	0	600	600	0
7/4/2024 17:22	47101	MARL_T1	189	208	19	1.27	1.28	0.01	-0.51	-0.51	1	1	0	600	600	0
7/4/2024 17:22	47104	MARL_T1	0	4	4	0	0.5	0.5	0	0	0	0	0	0	0	0
7/4/2024 17:23	57106	SPHI_T2	3	3	0	0.17	0.67	0.5	0	0	0	0	0	0	0	0
7/4/2024 17:23	57104	SPHI_T2	0	0	0	0	0	0	-1.72	-1.71	1	1	0	900	900	0
7/4/2024 17:25	61701	ELIZ_T1	2	2	0	0.25	0.3	0.05	1.57	1.53	0	0	0	0	0	0
7/4/2024 17:25	61703	ELIZ_T1	1	1	0	1.4	0.4	-1	0	0	0	0	0	0	0	0
7/4/2024 17:26	64204	KINZ_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
7/4/2024 17:26	64203	KINZ_T1	1	1	0	0.4	0	-0.4	-1.12	-1.15	3	3	0	2100	2100	0
7/4/2024 17:27	64204	KINZ_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
7/4/2024 17:27	64203	KINZ_T1	1	1	0	0.4	0	-0.4	-1.12	-1.15	3	3	0	2100	2100	0
7/4/2024 17:28	63401	HONY_T1	0	0	0	0	0	0	0.57	0.6	0	0	0	0	0	0
7/4/2024 17:36	44903	SCOT_T1	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/4/2024 17:36	44905	SCOT_T1	13	8	-5	0.62	0.4	-0.22	0	0	0	0	0	0	0	0
7/4/2024 17:38	49804	UNIV_T1	12	3	-9	0.48	0	-0.48	0.31	0.26	0	0	0	0	0	0
7/4/2024 17:38	49803	UNIV_T1	8	1	-7	0.43	1.7	1.27	0	0	0	0	0	0	0	0
7/4/2024 17:41	43402	BENT_T1	0	1	1	0	0	0	-0.72	-0.74	1	1	0	900	900	0
7/4/2024 17:41	43401	BENT_T1	10	10	0	0.39	0.25	-0.14	0	0	0	0	0	0	0	0
7/4/2024 17:42	42902	MIDD_T2	54	53	-1	3	1.01	-1.99	0.03	-0.07	0	0	0	0	0	0
7/4/2024 17:42	42901	MIDD_T2	2	3	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/4/2024 17:42	42903	MIDD_T2	1	2	1	0.1	0.75	0.65	0	0	0	0	0	0	0	0
7/4/2024 17:49	47401	PENS_T1	28	34	6	0.54	0.54	0	1.03	1.09	0	0	0	0	0	0
7/4/2024 17:49	64204	KINZ_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
7/4/2024 17:49	47402	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 17:49	64203	KINZ_T1	0	1	1	0	0	0	-1.15	-0.21	3	2	-1	2100	900	-1200
7/4/2024 17:49	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 17:50	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 17:50	64203	KINZ_T1	0	1	1	0	0	0	-1.15	-0.21	3	2	-1	2100	900	-1200
7/4/2024 17:50	64204	KINZ_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
7/4/2024 17:54	61701	ELIZ_T1	2	1	-1	0.5	0.5	0	1.44	1.5	0	0	0	0	0	0
7/4/2024 17:54	61703	ELIZ_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/4/2024 17:56	52002	LING_T2	0	0	0	0	0	0	-0.46	0.31	1	1	0	900	900	0
7/4/2024 17:56	52004	LING_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/4/2024 17:57	15001	BLMO_T1	10	19	9	0.85	0.62	-0.23	0	0	0	0	0	0	0	0
7/4/2024 17:59	61703	ELIZ_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/4/2024 17:59	61701	ELIZ_T1	2	1	-1	0.5	0.5	0	1.44	1.5	0	0	0	0	0	0
7/4/2024 17:59	52004	LING_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/4/2024 17:59	52002	LING_T2	0	0	0	0	0	0	-0.46	0.31	1	1	0	900	900	0
7/4/2024 18:06	44201	POIN_T1	0	0	0	0	0	0	-1.31	-1.32	1	1	0	1200	1200	0
7/4/2024 18:08	24802	VALM_T1	0	0	0	0	0	0	0.93	1.04	0	0	0	0	0	0
7/4/2024 18:12	64203	KINZ_T1	1	0	-1	0.4	0	-0.4	-0.23	0.32	2	1	-1	900	600	-300
7/4/2024 18:12	64204	KINZ_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
7/4/2024 18:12	64202	KINZ_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/4/2024 18:13	64204	KINZ_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
7/4/2024 18:13	64203	KINZ_T1	1	0	-1	0.4	0	-0.4	-0.23	0.32	2	1	-1	900	600	-300
7/4/2024 18:13	64202	KINZ_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/4/2024 18:20	64101	REFR_T1	36	26	-10	1.35	2.79	1.44	0.48	0.46	0	0	0	0	0	0
7/4/2024 18:20	60803	BUCK_T1	3	10	7	0.2	0.21	0.01	-0.08	-0.1	1	1	0	600	600	0
7/4/2024 18:28	60101	COCA_T1	0	0	0	0	0	0	-0.28	-0.27	2	2	0	2400	2400	0
7/4/2024 18:32	64204	KINZ_T1	1	2	1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/4/2024 18:32	64202	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/4/2024 18:32	64203	KINZ_T1	0	0	0	0	0	0	0.32	0.31	1	1	0	600	600	0
7/4/2024 18:33	64202	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/4/2024 18:33	64203	KINZ_T1	0	0	0	0	0	0	0.32	0.31	1	1	0	600	600	0
7/4/2024 18:33	64204	KINZ_T1	1	2	1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/4/2024 18:36	44902	SCOT_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
7/4/2024 18:36	64304	LINC_T2	3	2	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/4/2024 18:36	57403	SPAN_T1	1	3	2	0.4	0	-0.4	1.65	1.57	0	0	0	0	0	0
7/4/2024 18:36	64302	LINC_T2	96	117	21	0.48	0.4	-0.08	1.77	1.68	0	0	0	0	0	0
7/4/2024 18:37	41903	REED_T1	0	0	0	0	0	0	1.19	1.13	0	0	0	0	0	0
7/4/2024 18:37	57403	SPAN_T1	1	3	2	0.4	0	-0.4	0.79	0.74	0	0	0	0	0	0
7/4/2024 18:37	41901	REED_T1	9	9	0	0.66	0.83	0.17	0	0	0	0	0	0	0	0
7/4/2024 18:37	41902	REED_T1	7	7	0	0.66	0.4	-0.26	0	0	0	0	0	0	0	0
7/4/2024 18:39	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 18:39	43402	BENT_T1	0	0	0	0	0	0	-0.79	-0.75	1	1	0	900	900	0
7/4/2024 18:49	58401	MORO_T1	1	1	0	1.4	1.2	-0.2	-3.17	-3.18	6	6	0	4200	4200	0
7/4/2024 18:49	58402	MORO_T1	12	6	-6	1.08	0.9	-0.18	0	0	0	0	0	0	0	0
7/4/2024 18:52	64204	KINZ_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/4/2024 18:52	64203	KINZ_T1	0	0	0	0	0	0	0.32	0.3	1	1	0	600	600	0
7/4/2024 18:52	64101	REFR_T1	13	11	-2	2.79	2.6	-0.19	0.43	0.4	0	0	0	0	0	0
7/4/2024 18:53	64203	KINZ_T1	0	0	0	0	0	0	0.32	0.3	1	1	0	600	600	0
7/4/2024 18:53	64204	KINZ_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/4/2024 18:55	10602	BLGL_T2	5	3	-2	1.58	5.4	3.82	1.22	1.19	0	0	0	0	0	0
7/4/2024 18:57	10705	CATA_T2	0	1	1	0	0	0	-1.09	-1.08	1	1	0	900	900	0
7/4/2024 18:59	10705	CATA_T2	0	1	1	0	0	0	-1.09	-1.08	1	1	0	900	900	0
7/4/2024 19:00	40801	EXCH_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/4/2024 19:00	40802	EXCH_T2	1	4	3	0.1	0.18	0.08	-0.66	-0.69	0	0	0	0	0	0
7/4/2024 19:02	64605	LEOL_T1	0	0	0	0	0	0	0.18	0.15	1	1	0	300	300	0
7/4/2024 19:03	64605	LEOL_T1	0	0	0	0	0	0	0.18	0.15	1	1	0	300	300	0
7/4/2024 19:07	65603	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 19:07	65601	QVIL_T2	1	5	4	0.2	0.24	0.04	0.27	0.28	1	1	0	900	900	0
7/4/2024 19:07	65604	QVIL_T2	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/4/2024 19:09	22002	BOHE_T1	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
7/4/2024 19:12	40802	EXCH_T2	1	4	3	0.1	0.18	0.08	-0.69	-0.7	0	0	0	0	0	0
7/4/2024 19:12	64203	KINZ_T1	0	0	0	0	0	0	0.3	0.29	1	1	0	600	600	0
7/4/2024 19:12	64204	KINZ_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
7/4/2024 19:12	40801	EXCH_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/4/2024 19:13	64204	KINZ_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
7/4/2024 19:13	64203	KINZ_T1	0	0	0	0	0	0.3	0.29	1	1	0	600	600	0
7/4/2024 19:17	40802	EXCH_T2	4	4	0	0.18	0.15	-0.03	-0.69	-0.7	0	0	0	0	0	0
7/4/2024 19:17	40801	EXCH_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/4/2024 19:18	56802	BENV_T2	762	0	-762	6.29	0	-6.29	-0.7	-0.19	0	0	0	0	0	0
7/4/2024 19:19	56802	BENV_T2	762	0	-762	6.29	0	-6.29	-0.7	-0.19	0	0	0	0	0	0
7/4/2024 19:19	52403	GRPA_T2	65	62	-3	1.43	0.78	-0.65	0	0	0	0	0	0	0	0
7/4/2024 19:19	52401	GRPA_T2	2	3	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 19:19	52402	GRPA_T2	29	17	-12	0.67	0.85	0.18	-0.37	-0.41	0	0	0	0	0	0
7/4/2024 19:22	56802	BENV_T2	762	0	-762	6.29	0	-6.29	-0.19	-0.13	0	0	0	0	0	0
7/4/2024 19:23	56802	BENV_T2	762	0	-762	6.29	0	-6.29	-0.19	-0.13	0	0	0	0	0	0
7/4/2024 19:24	57103	SPHI_T2	0	0	0	0	0	0	-0.13	-0.14	1	1	0	600	600	0
7/4/2024 19:24	67904	WNHO_T1	0	0	0	0	0	0	-0.78	-0.79	1	1	0	1200	1200	0
7/4/2024 19:24	57106	SPHI_T2	3	3	0	1.07	1.13	0.06	0	0	0	0	0	0	0	0
7/4/2024 19:24	57101	SPHI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 19:25	56802	BENV_T2	762	0	-762	6.29	0	-6.29	-0.19	-0.13	0	0	0	0	0	0
7/4/2024 19:26	67904	WNHO_T1	0	0	0	0	0	0	-0.78	-0.79	1	1	0	1200	1200	0
7/4/2024 19:29	12006	HATF_T1	0	0	0	0	0	0	0.37	0.37	1	1	0	1200	1200	0
7/4/2024 19:31	63305	GREE_T1	15	8	-7	0.34	0.24	-0.1	-1.7	-1.67	1	1	0	900	900	0
7/4/2024 19:31	63304	GREE_T1	8	3	-5	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
7/4/2024 19:31	56802	BENV_T2	0	0	0	0	0	0	-0.19	-0.13	0	0	0	0	0	0
7/4/2024 19:32	64203	KINZ_T1	0	0	0	0	0	0	0.29	0.21	1	1	0	600	600	0
7/4/2024 19:32	64204	KINZ_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
7/4/2024 19:33	64203	KINZ_T1	0	0	0	0	0	0	0.29	0.21	1	1	0	600	600	0
7/4/2024 19:33	64204	KINZ_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
7/4/2024 19:33	52402	GRPA_T2	17	6	-11	0.58	0.76	0.18	-0.41	-0.44	0	0	0	0	0	0
7/4/2024 19:33	52401	GRPA_T2	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/4/2024 19:33	52403	GRPA_T2	61	61	0	1.23	0.74	-0.49	0	0	0	0	0	0	0	0
7/4/2024 19:39	57401	SPAN_T1	68	9	-59	0.31	0.5	0.19	0	0	0	0	0	0	0	0
7/4/2024 19:39	57403	SPAN_T1	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
7/4/2024 19:41	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 19:41	62101	ELAN_T1	0	0	0	0	0	0	1.32	1.28	0	0	0	0	0	0
7/4/2024 19:44	56802	BENV_T2	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
7/4/2024 19:52	64204	KINZ_T1	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
7/4/2024 19:52	64203	KINZ_T1	0	0	0	0	0	0	0.25	0.11	1	1	0	600	600	0
7/4/2024 19:53	64203	KINZ_T1	0	0	0	0	0	0	0.25	0.11	1	1	0	600	600	0
7/4/2024 19:53	64204	KINZ_T1	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
7/4/2024 19:58	62103	ELAN_T1	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 19:58	62102	ELAN_T1	0	0	0	0	0	0	1.01	0.96	0	0	0	0	0	0
7/4/2024 20:00	54503	ENOL_T2	0	0	0	0	0	0	-1.5	-1.61	1	1	0	600	600	0
7/4/2024 20:01	22905	HARW_T1	0	0	0	0	0	0	-0.49	-0.46	0	0	0	0	0	0
7/4/2024 20:08	61701	ELIZ_T1	1	1	0	1.3	2	0.7	1.32	1.26	0	0	0	0	0	0
7/4/2024 20:12	64203	KINZ_T1	0	0	0	0	0	0	0.11	0.05	1	1	0	600	600	0
7/4/2024 20:12	64204	KINZ_T1	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
7/4/2024 20:13	64204	KINZ_T1	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
7/4/2024 20:13	64203	KINZ_T1	0	0	0	0	0	0	0.11	0.05	1	1	0	600	600	0
7/4/2024 20:17	60801	BUCK_T1	11	19	8	0.15	0.2	0.05	0.16	0.17	0	0	0	0	0	0
7/4/2024 20:17	60803	BUCK_T1	18	18	0	0.59	0.69	0.1	0	0	0	0	0	0	0	0
7/4/2024 20:18	60803	BUCK_T1	18	18	0	0.59	0.69	0.1	0	0	0	0	0	0	0	0
7/4/2024 20:18	60801	BUCK_T1	11	19	8	0.15	0.2	0.05	0.16	0.17	0	0	0	0	0	0
7/4/2024 20:22	44601	SALE_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
7/4/2024 20:23	43402	BENT_T1	0	0	0	0	0	0	-0.81	-0.79	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/4/2024 20:23	43401	BENT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 20:24	44601	SALE_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
7/4/2024 20:29	56504	ROCK_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
7/4/2024 20:29	56501	ROCK_T2	1	23	22	0.1	0.18	0.08	0	0	0	0	0	0	0	0
7/4/2024 20:33	64204	KINZ_T1	1	1	0	0.1	1.1	1	0	0	0	0	0	0	0	0
7/4/2024 20:33	64203	KINZ_T1	0	0	0	0	0	0	0.05	0.05	1	1	0	600	600	0
7/4/2024 20:33	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 20:34	64203	KINZ_T1	0	0	0	0	0	0	0.05	0.05	1	1	0	600	600	0
7/4/2024 20:34	64204	KINZ_T1	1	1	0	0.1	1.1	1	0	0	0	0	0	0	0	0
7/4/2024 20:34	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 20:36	46803	HEPB_T2	7	10	3	0.23	0.23	0	0	0	0	0	0	0	0	0
7/4/2024 20:36	46801	HEPB_T2	23	30	7	0.33	0.31	-0.02	0.16	0.18	0	0	0	0	0	0
7/4/2024 20:42	59101	WALK_T2	1	0	-1	0.1	0	-0.1	0.23	0.24	0	0	0	0	0	0
7/4/2024 20:48	64201	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/4/2024 20:48	64203	KINZ_T1	0	0	0	0	0	0	0.05	0.03	1	1	0	600	600	0
7/4/2024 20:48	65205	PRIN_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
7/4/2024 20:48	64204	KINZ_T1	1	1	0	0.3	1.3	1	0	0	0	0	0	0	0	0
7/4/2024 20:50	24801	VALM_T1	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
7/4/2024 21:06	44703	MUNC_T2	2	2	0	0.1	0.1	0	1.29	1.23	0	0	0	0	0	0
7/4/2024 21:06	44702	MUNC_T2	35	42	7	0.22	0.3	0.08	0	0	0	0	0	0	0	0
7/4/2024 21:06	44701	MUNC_T2	5	5	0	0.26	0.36	0.1	0	0	0	0	0	0	0	0
7/4/2024 21:27	46203	DANV_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
7/4/2024 21:27	46206	DANV_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/4/2024 21:29	14403	SSLA_T1	0	0	0	0	0	0	1.28	1.24	0	0	0	0	0	0
7/4/2024 21:29	14404	SSLA_T1	4	5	1	1.5	1.42	-0.08	0	0	0	0	0	0	0	0
7/4/2024 21:30	46206	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 21:30	46203	DANV_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
7/4/2024 21:42	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 21:43	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 21:43	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 21:43	11104	EGYP_T1	0	0	0	0	0	0	0.74	0.68	0	0	0	0	0	0
7/4/2024 21:46	11507	FREE_T2	0	0	0	0	0	0	0.47	0.46	1	1	0	600	600	0
7/4/2024 21:47	14204	EALL_T2	0	0	0	0	0	0	0.01	-0.01	1	1	0	1200	1200	0
7/4/2024 21:49	11104	EGYP_T1	0	0	0	0	0	0	0.74	0.68	0	0	0	0	0	0
7/4/2024 21:49	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 21:50	66901	SHIL_T2	2	32	30	0.1	0.14	0.04	-0.54	-0.58	0	0	0	0	0	0
7/4/2024 21:50	12807	MICK_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/4/2024 21:50	66902	SHIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/4/2024 21:50	12801	MICK_T1	0	0	0	0	0	0	-0.76	-0.77	1	1	0	600	600	0
7/4/2024 21:52	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 21:52	11104	EGYP_T1	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
7/4/2024 21:53	64201	KINZ_T1	6	26	20	0.37	0.29	-0.08	0	0	0	0	0	0	0	0
7/4/2024 21:53	64204	KINZ_T1	3	11	8	0.37	0.29	-0.08	0	0	0	0	0	0	0	0
7/4/2024 21:53	64203	KINZ_T1	0	24	24	0	0.18	0.18	0.07	0.04	1	1	0	600	600	0
7/4/2024 21:53	64202	KINZ_T1	2	9	7	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/4/2024 21:54	16302	ALPA_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
7/4/2024 21:56	13105	NHAM_T2	0	1	1	0	0	0	-1.03	-0.99	1	1	0	1200	1200	0
7/4/2024 21:57	10705	CATA_T2	0	0	0	0	0	0	-1.47	-1.44	1	1	0	900	900	0
7/4/2024 21:57	12701	MACU_T1	0	0	0	0	0	0	-0.81	-0.84	1	1	0	1200	1200	0
7/4/2024 21:58	16302	ALPA_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
7/4/2024 21:58	47101	MARL_T1	24	15	-9	1.15	0.88	-0.27	-0.35	-0.32	0	0	0	0	0	0
7/4/2024 21:59	16302	ALPA_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
7/4/2024 22:02	47101	MARL_T1	15	13	-2	1.05	0.86	-0.19	-0.71	-0.64	0	0	0	0	0	0
7/4/2024 22:05	12301	LANA_T2	0	0	0	0	0	0	-0.81	-0.86	1	1	0	1200	1200	0
7/4/2024 22:06	15702	TANN_T2	1	1	0	0.3	0	-0.3	-0.07	-0.09	0	0	0	0	0	0
7/4/2024 22:06	48302	ORWI_T2	2	2	0	1.2	1.1	-0.1	-0.24	-0.27	0	0	0	0	0	0
7/4/2024 22:06	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
7/4/2024 22:06	46004	BERW_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
7/4/2024 22:07	12701	MACU_T1	0	0	0	0	0	0	-0.84	-0.84	1	1	0	1200	1200	0
7/4/2024 22:08	47101	MARL_T1	15	13	-2	1.05	0.86	-0.19	-0.32	-0.4	0	0	0	0	0	0
7/4/2024 22:08	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
7/4/2024 22:08	15702	TANN_T2	1	1	0	0.3	0	-0.3	-0.09	-0.09	0	0	0	0	0	0
7/4/2024 22:09	12701	MACU_T1	0	0	0	0	0	0	-0.84	-0.84	1	1	0	1200	1200	0
7/4/2024 22:10	47101	MARL_T1	15	13	-2	1.05	0.86	-0.19	-0.64	-0.79	0	0	0	0	0	0
7/4/2024 22:10	16302	ALPA_T2	0	0	0	0	0	0	-0.32	-0.36	0	0	0	0	0	0
7/4/2024 22:12	20401	ASHF_T2	3	2	-1	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/4/2024 22:12	20403	ASHF_T2	0	0	0	0	0	0	0.78	0.71	0	0	0	0	0	0
7/4/2024 22:13	15702	TANN_T2	1	1	0	0.3	0	-0.3	-0.09	-0.09	0	0	0	0	0	0
7/4/2024 22:13	13303	ORVI_T1	0	0	0	0	0	0	0.06	-0.83	0	0	0	0	0	0
7/4/2024 22:13	47101	MARL_T1	15	13	-2	1.05	0.86	-0.19	-0.32	-0.4	0	0	0	0	0	0
7/4/2024 22:13	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
7/4/2024 22:14	20603	GRWO_T2	36	42	6	0.26	0.27	0.01	0	0	0	0	0	0	0	0
7/4/2024 22:14	10602	BLGL_T2	1	1	0	7.7	7.6	-0.1	0.74	0.67	0	0	0	0	0	0
7/4/2024 22:14	20601	GRWO_T2	1	0	-1	0.9	0	-0.9	-0.06	-0.07	0	0	0	0	0	0
7/4/2024 22:16	47101	MARL_T1	13	12	-1	0.88	0.6	-0.28	-0.32	-0.4	0	0	0	0	0	0
7/4/2024 22:16	61102	BERK_T5	0	0	0	0	0	0	1.48	0.94	4	4	0	1200	1200	0
7/4/2024 22:17	61102	BERK_T5	0	0	0	0	0	0	0.37	0.24	1	1	0	300	300	0
7/4/2024 22:17	40601	PIGR_T1	1	4	3	0.1	0.13	0.03	0.1	0.05	0	0	0	0	0	0
7/4/2024 22:17	20403	ASHF_T2	0	0	0	0	0	0	0.78	0.71	0	0	0	0	0	0
7/4/2024 22:17	20401	ASHF_T2	2	0	-2	0.2	0	-0.2	0.14	0.14	0	0	0	0	0	0
7/4/2024 22:17	47101	MARL_T1	13	12	-1	0.88	0.6	-0.28	-0.32	-0.4	0	0	0	0	0	0
7/4/2024 22:18	61102	BERK_T5	0	0	0	0	0	0	0.37	0.24	1	1	0	300	300	0
7/4/2024 22:18	40601	PIGR_T1	1	4	3	0.1	0.13	0.03	0.1	0.05	0	0	0	0	0	0
7/4/2024 22:19	47101	MARL_T1	13	12	-1	0.88	0.6	-0.28	-0.32	-0.4	0	0	0	0	0	0
7/4/2024 22:19	14404	SSLA_T1	2	2	0	1.75	2.1	0.35	0	0	0	0	0	0	0	0
7/4/2024 22:19	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 22:19	20403	ASHF_T2	0	0	0	0	0	0	1.57	1.43	0	0	0	0	0	0
7/4/2024 22:19	20401	ASHF_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 22:19	59201	THOM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 22:19	14403	SSLA_T1	0	1	1	0	0	0	1.02	1.01	0	0	0	0	0	0
7/4/2024 22:19	61102	BERK_T5	0	0	0	0	0	0	0.37	0.24	1	1	0	300	300	0
7/4/2024 22:20	59201	THOM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 22:20	61102	BERK_T5	0	0	0	0	0	0	0.37	0.24	1	1	0	300	300	0
7/4/2024 22:20	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 22:20	11804	FRAN_T1	15	16	1	0.81	0.65	-0.16	0.97	0.99	0	0	0	0	0	0
7/4/2024 22:21	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/4/2024 22:21	47101	MARL_T1	13	12	-1	0.88	0.6	-0.28	-0.32	-0.4	0	0	0	0	0	0
7/4/2024 22:21	61701	ELIZ_T1	1	1	0	1.9	2.2	0.3	1.11	1	0	0	0	0	0	0
7/4/2024 22:21	61102	BERK_T5	0	0	0	0	0	0	0.24	0.24	1	1	0	300	300	0
7/4/2024 22:21	29402	BELT_T1	1	1	0	8.3	8.8	0.5	0	0	0	0	0	0	0	0
7/4/2024 22:22	67703	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	2	2	0	1800	1800	0
7/4/2024 22:22	64304	LINC_T2	4	4	0	1.03	0.85	-0.18	0	0	0	0	0	0	0	0
7/4/2024 22:22	64302	LINC_T2	4	3	-1	0.8	0.77	-0.03	1.28	1.26	0	0	0	0	0	0
7/4/2024 22:23	14403	SSLA_T1	0	1	1	0	0	0	1.01	0.98	0	0	0	0	0	0
7/4/2024 22:23	14404	SSLA_T1	2	2	0	1.75	2.1	0.35	0	0	0	0	0	0	0	0
7/4/2024 22:23	12006	HATF_T1	0	0	0	0	0	0	0.67	0.74	0	0	0	0	0	0
7/4/2024 22:24	20603	GRWO_T2	42	43	1	0.26	0.28	0.02	-0.39	-0.4	1	1	0	900	900	0
7/4/2024 22:24	56504	ROCK_T2	0	0	0	0	0	0	0.36	0.32	0	0	0	0	0	0
7/4/2024 22:24	29402	BELT_T1	1	1	0	8.3	8.8	0.5	0	0	0	0	0	0	0	0
7/4/2024 22:24	56501	ROCK_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 22:24	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/4/2024 22:25	55001	NEWP_T1	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
7/4/2024 22:25	56504	ROCK_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
7/4/2024 22:25	56501	ROCK_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 22:25	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/4/2024 22:25	55002	NEWP_T1	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
7/4/2024 22:26	64204	KINZ_T1	8	3	-5	0.28	0.47	0.19	0	0	0	0	0	0	0	0
7/4/2024 22:26	20401	ASHF_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 22:26	24205	PROV_T3	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
7/4/2024 22:26	64201	KINZ_T1	12	5	-7	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
7/4/2024 22:26	20403	ASHF_T2	0	0	0	0	0	0	0.71	0.76	0	0	0	0	0	0
7/4/2024 22:26	24204	PROV_T3	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
7/4/2024 22:26	56504	ROCK_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
7/4/2024 22:26	64202	KINZ_T1	3	2	-1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
7/4/2024 22:26	64203	KINZ_T1	2	0	-2	0.1	0	-0.1	0.67	0.67	0	0	0	0	0	0
7/4/2024 22:26	56501	ROCK_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 22:26	24201	PROV_T3	1	1	0	7.4	7.4	0	-0.9	-0.9	1	1	0	1200	1200	0
7/4/2024 22:27	57106	SPHI_T2	3	3	0	0.5	0.67	0.17	0	0	0	0	0	0	0	0
7/4/2024 22:27	20601	GRWO_T2	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
7/4/2024 22:27	57103	SPHI_T2	0	0	0	0	0	0	-0.39	-0.4	1	1	0	600	600	0
7/4/2024 22:27	56801	BENV_T1	4	7	3	0.53	0.84	0.31	-0.39	-0.36	1	1	0	600	600	0
7/4/2024 22:27	40603	PIGR_T1	0	0	0	0	0	0	0.72	0.68	0	0	0	0	0	0
7/4/2024 22:27	56501	ROCK_T2	1	1	0	0.2	0	-0.2	-1.33	-1.35	0	0	0	0	0	0
7/4/2024 22:27	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 22:27	44902	SCOT_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
7/4/2024 22:27	40601	PIGR_T1	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
7/4/2024 22:27	20603	GRWO_T2	42	43	1	0.26	0.28	0.02	0	0	0	0	0	0	0	0
7/4/2024 22:28	55001	NEWP_T1	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
7/4/2024 22:28	53903	HALI_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
7/4/2024 22:28	66504	SMAN_T2	1	6	5	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/4/2024 22:28	12701	MACU_T1	0	0	0	0	0	0	-0.84	-0.87	1	1	0	1200	1200	0
7/4/2024 22:28	53901	HALI_T2	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
7/4/2024 22:28	56801	BENV_T1	4	7	3	0.53	0.84	0.31	-0.39	-0.36	1	1	0	600	600	0
7/4/2024 22:28	61303	EARL_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
7/4/2024 22:28	55002	NEWP_T1	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
7/4/2024 22:28	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 22:28	56501	ROCK_T2	1	1	0	0.2	0	-0.2	-1.33	-1.35	0	0	0	0	0	0
7/4/2024 22:28	40602	PIGR_T1	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
7/4/2024 22:28	67203	TEHI_T1	0	0	0	0	0	0	1.3	1.29	1	1	0	900	900	0
7/4/2024 22:28	40601	PIGR_T1	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
7/4/2024 22:28	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/4/2024 22:28	67603	WARW_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
7/4/2024 22:28	47401	PENS_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
7/4/2024 22:28	22002	BOHE_T1	0	0	0	0	0	0	0.6	0.65	0	0	0	0	0	0
7/4/2024 22:28	50701	SMEC_T1	0	0	0	0	0	0	-0.07	0.05	0	0	0	0	0	0
7/4/2024 22:28	66505	SMAN_T2	2	1	-1	0.25	0	-0.25	0.07	0.04	3	3	0	2100	2100	0
7/4/2024 22:28	53902	HALI_T2	1	1	0	4.1	4.8	0.7	0	0	0	0	0	0	0	0
7/4/2024 22:29	65004	NEFF_T2	0	0	0	0	0	0	-0.46	-0.46	1	1	0	600	600	0
7/4/2024 22:29	56801	BENV_T1	4	7	3	0.53	0.84	0.31	-0.77	-0.72	2	2	0	1200	1200	0
7/4/2024 22:29	56501	ROCK_T2	1	1	0	0.2	0	-0.2	-1.33	-1.35	0	0	0	0	0	0
7/4/2024 22:29	64101	REFR_T1	0	0	0	0	0	0	0.13	0.69	0	0	0	0	0	0
7/4/2024 22:29	55003	NEWP_T2	1	2	1	0.2	1	0.8	-0.56	-0.53	0	0	0	0	0	0
7/4/2024 22:29	53803	MBRG_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/4/2024 22:29	29402	BELT_T1	1	1	0	8.3	8.8	0.5	0	0	0	0	0	0	0	0
7/4/2024 22:29	63401	HONY_T1	0	0	0	0	0	0	0.3	0.35	0	0	0	0	0	0
7/4/2024 22:30	58003	WCAR_T1	1	1	0	0.8	1.2	0.4	1.02	1.04	0	0	0	0	0	0
7/4/2024 22:30	65603	QVIL_T2	18	0	-18	0.17	0	-0.17	0.47	0.46	0	0	0	0	0	0
7/4/2024 22:30	65604	QVIL_T2	3	2	-1	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
7/4/2024 22:30	40802	EXCH_T2	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
7/4/2024 22:30	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/4/2024 22:30	22901	HARW_T1	0	0	0	0	0	0	-0.53	-0.59	1	1	0	1200	1200	0
7/4/2024 22:30	60803	BUCK_T1	25	18	-7	0.81	0.59	-0.22	-0.27	-0.3	1	1	0	600	600	0
7/4/2024 22:30	56501	ROCK_T2	1	0	-1	0.4	0	-0.4	-2.67	-2.71	0	0	0	0	0	0
7/4/2024 22:30	60801	BUCK_T1	66	33	-33	0.45	0.27	-0.18	0	0	0	0	0	0	0	0
7/4/2024 22:30	56504	ROCK_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
7/4/2024 22:30	61702	ELIZ_T2	0	0	0	0	0	0	-1.39	-1.42	2	2	0	1500	1500	0
7/4/2024 22:30	65601	QVIL_T2	14	1	-13	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
7/4/2024 22:30	57205	ROSS_T1	0	0	0	0	0	0	-0.38	-0.42	1	1	0	900	900	0
7/4/2024 22:30	61701	ELIZ_T1	1	1	0	2.1	2.4	0.3	1.11	1	0	0	0	0	0	0
7/4/2024 22:31	63302	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 22:31	52402	GRPA_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 22:31	52404	GRPA_T2	0	1	1	0	0.2	0.2	-0.51	-0.55	0	0	0	0	0	0
7/4/2024 22:31	20603	GRWO_T2	25	51	26	0.27	0.29	0.02	-0.39	-0.4	1	1	0	900	900	0
7/4/2024 22:31	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 22:31	59101	WALK_T2	0	0	0	0	0	0	-0.01	0.05	0	0	0	0	0	0
7/4/2024 22:31	22901	HARW_T1	0	0	0	0	0	0	-0.53	-0.59	1	1	0	1200	1200	0
7/4/2024 22:31	40601	PIGR_T1	1	7	6	0.1	0.16	0.06	0	0	0	0	0	0	0	0
7/4/2024 22:31	67204	TEHI_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
7/4/2024 22:31	67605	WARW_T1	0	0	0	0	0	0	-1.62	-1.73	0	0	0	0	0	0
7/4/2024 22:31	60201	ATGL_T2	70	17	-53	0.31	0.14	-0.17	0.92	0.84	0	0	0	0	0	0
7/4/2024 22:31	52403	GRPA_T2	7	8	1	0.64	0.38	-0.26	-0.34	-0.35	0	0	0	0	0	0
7/4/2024 22:31	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 22:31	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/4/2024 22:31	48302	ORWI_T2	2	2	0	1.1	1.2	0.1	-0.3	-0.31	0	0	0	0	0	0
7/4/2024 22:31	63305	GREE_T1	14	2	-12	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
7/4/2024 22:31	52004	LING_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
7/4/2024 22:31	63304	GREE_T1	0	0	0	0	0	0	-1.14	-1.14	0	0	0	0	0	0
7/4/2024 22:31	40603	PIGR_T1	0	0	0	0	0	0	0.72	0.68	0	0	0	0	0	0
7/4/2024 22:31	52501	PROG_T1	0	0	0	0	0	0	0.54	0.56	1	1	0	300	300	0
7/4/2024 22:31	40802	EXCH_T2	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
7/4/2024 22:32	65001	NEFF_T2	0	0	0	0	0	0	-0.64	-0.6	1	1	0	1200	1200	0
7/4/2024 22:32	59101	WALK_T2	0	0	0	0	0	0	-0.01	0.05	0	0	0	0	0	0
7/4/2024 22:32	22901	HARW_T1	0	0	0	0	0	0	-0.53	-0.59	1	1	0	1200	1200	0
7/4/2024 22:32	40101	HUNT_T2	0	0	0	0	0	0	-1.02	-1.06	0	0	0	0	0	0
7/4/2024 22:32	66505	SMAN_T2	1	3	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 22:32	52004	LING_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
7/4/2024 22:32	65401	MARI_T1	12	13	1	0.74	0.83	0.09	-0.15	-0.14	0	0	0	0	0	0
7/4/2024 22:32	56501	ROCK_T2	1	0	-1	0.4	0	-0.4	-2.67	-2.71	0	0	0	0	0	0
7/4/2024 22:32	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 22:32	67204	TEHI_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
7/4/2024 22:32	25503	MADI_T1	18	3	-15	0.14	0.1	-0.04	-0.63	-0.69	0	0	0	0	0	0
7/4/2024 22:32	60201	ATGL_T2	70	17	-53	0.31	0.14	-0.17	0.92	0.84	0	0	0	0	0	0
7/4/2024 22:32	63401	HONY_T1	0	0	0	0	0	0	0.6	0.71	0	0	0	0	0	0
7/4/2024 22:32	52002	LING_T2	0	0	0	0	0	0	1.23	1.17	0	0	0	0	0	0
7/4/2024 22:32	66504	SMAN_T2	3	6	3	0.13	0	-0.13	1.15	0.95	0	0	0	0	0	0
7/4/2024 22:32	65402	MARI_T1	50	18	-32	0.15	0.18	0.03	0	0	0	0	0	0	0	0
7/4/2024 22:33	67901	WNHO_T2	5	33	28	0.17	0.25	0.08	-0.3	-0.26	0	0	0	0	0	0
7/4/2024 22:33	63401	HONY_T1	0	0	0	0	0	0	0.3	0.35	0	0	0	0	0	0
7/4/2024 22:33	29402	BELT_T1	1	1	0	8.5	8.9	0.4	0	0	0	0	0	0	0	0
7/4/2024 22:33	57106	SPHI_T2	3	3	0	0.53	1	0.47	0	0	0	0	0	0	0	0
7/4/2024 22:33	64204	KINZ_T1	3	1	-2	0.47	1	0.53	0	0	0	0	0	0	0	0
7/4/2024 22:33	64202	KINZ_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
7/4/2024 22:33	64302	LINC_T2	3	3	0	1	0	-1	1.28	1.26	0	0	0	0	0	0
7/4/2024 22:33	56501	ROCK_T2	1	0	-1	0.4	0	-0.4	-5.34	-5.42	0	0	0	0	0	0
7/4/2024 22:33	57403	SPAN_T1	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
7/4/2024 22:33	40601	PIGR_T1	1	7	6	0.1	0.16	0.06	0.05	0.06	0	0	0	0	0	0
7/4/2024 22:33	64201	KINZ_T1	4	1	-3	0.25	0.1	-0.15	-0.29	-0.31	3	3	0	1500	1500	0
7/4/2024 22:33	64101	REFR_T1	0	3	3	0	0	0	0.13	0.69	0	0	0	0	0	0
7/4/2024 22:33	57104	SPHI_T2	0	0	0	0	0	0	-1.1	-1.16	1	1	0	900	900	0
7/4/2024 22:33	64304	LINC_T2	4	4	0	1.03	0	-1.03	0	0	0	0	0	0	0	0
7/4/2024 22:33	52002	LING_T2	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
7/4/2024 22:33	65502	MOJO_T2	0	0	0	0	0	0	-1.26	-1.28	1	1	0	900	900	0
7/4/2024 22:33	61301	EARL_T1	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
7/4/2024 22:34	55001	NEWP_T1	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
7/4/2024 22:34	60803	BUCK_T1	25	18	-7	0.81	0.59	-0.22	-0.27	-0.3	1	1	0	600	600	0
7/4/2024 22:34	45602	WOOL_T1	221	155	-66	1.11	1.03	-0.08	0.56	0.51	0	0	0	0	0	0
7/4/2024 22:34	52402	GRPA_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 22:34	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 22:34	56501	ROCK_T2	1	0	-1	0.4	0	-0.4	-2.67	-2.71	0	0	0	0	0	0
7/4/2024 22:34	42201	SHEN_T2	0	0	0	0	0	0	0.28	0.28	1	1	0	600	600	0
7/4/2024 22:34	60501	NMAN_T2	3	3	0	3.93	4.33	0.4	0	0	0	0	0	0	0	0
7/4/2024 22:34	63302	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 22:34	63305	GREE_T1	14	2	-12	0.25	0.1	-0.15	-1.88	-1.89	1	1	0	900	900	0
7/4/2024 22:34	66505	SMAN_T2	1	3	2	0.2	0	-0.2	0.07	0.04	3	3	0	2100	2100	0
7/4/2024 22:34	52403	GRPA_T2	7	8	1	0.64	0.38	-0.26	0	0	0	0	0	0	0	0
7/4/2024 22:34	55101	WERT_T1	0	0	0	0	0	0	-1.6	-1.62	3	3	0	2400	2400	0
7/4/2024 22:34	66504	SMAN_T2	3	6	3	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/4/2024 22:34	56504	ROCK_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
7/4/2024 22:34	58401	MORO_T1	0	0	0	0	0	0	-2.21	-2.27	4	4	0	2400	2400	0
7/4/2024 22:34	55405	SHER_T1	4	6	2	0.18	0.37	0.19	-0.3	-0.32	0	0	0	0	0	0
7/4/2024 22:34	24902	WHHA_T1	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
7/4/2024 22:34	55002	NEWP_T1	2	3	1	0.25	0.33	0.08	0	0	0	0	0	0	0	0
7/4/2024 22:34	60801	BUCK_T1	66	33	-33	0.45	0.27	-0.18	0	0	0	0	0	0	0	0
7/4/2024 22:34	52404	GRPA_T2	0	1	1	0	0.2	0.2	-0.51	-0.55	0	0	0	0	0	0
7/4/2024 22:34	60502	NMAN_T2	1	0	-1	0.3	0	-0.3	0.23	0.2	0	0	0	0	0	0
7/4/2024 22:35	13503	MCMI_T2	0	135	135	0	0.32	0.32	0.28	-0.67	0	0	0	0	0	0
7/4/2024 22:35	55408	SHER_T2	1	1	0	2.5	2.5	0	-0.58	-0.59	1	1	0	1200	1200	0
7/4/2024 22:35	62102	ELAN_T1	0	0	0	0	0	0	0.61	0.76	0	0	0	0	0	0
7/4/2024 22:35	45602	WOOL_T1	221	155	-66	1.11	1.03	-0.08	0.56	0.51	0	0	0	0	0	0
7/4/2024 22:35	52403	GRPA_T2	7	8	1	0.64	0.38	-0.26	0	0	0	0	0	0	0	0
7/4/2024 22:35	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 22:35	53802	MBRG_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
7/4/2024 22:35	56801	BENV_T1	7	8	1	0.67	0.96	0.29	-0.39	-0.36	1	1	0	600	600	0
7/4/2024 22:35	61703	ELIZ_T1	0	0	0	0	0	0	-2.5	-2.33	2	2	0	2100	2100	0
7/4/2024 22:35	52404	GRPA_T2	0	1	1	0	0.2	0.2	-1.01	-1.1	0	0	0	0	0	0
7/4/2024 22:35	60201	ATGL_T2	70	17	-53	0.31	0.14	-0.17	0.92	0.84	0	0	0	0	0	0
7/4/2024 22:35	46203	DANV_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
7/4/2024 22:35	55101	WERT_T1	0	0	0	0	0	0	-1.6	-1.62	3	3	0	2400	2400	0
7/4/2024 22:35	40101	HUNT_T2	0	0	0	0	0	0	-1.02	-1.06	0	0	0	0	0	0
7/4/2024 22:35	52402	GRPA_T2	0	3	3	0	0.1	0.1	-0.68	-0.56	0	0	0	0	0	0
7/4/2024 22:35	67804	WLAN_T1	2	7	5	0.25	0.45	0.2	0	0	0	0	0	0	0	0
7/4/2024 22:35	67801	WLAN_T1	0	1	1	0	0	0	0.18	0.12	0	0	0	0	0	0
7/4/2024 22:35	45802	HEGI_T2	47	47	0	1.37	1.03	-0.34	0.24	0.31	0	0	0	0	0	0
7/4/2024 22:35	61701	ELIZ_T1	1	1	0	2.1	2.4	0.3	1.11	1	0	0	0	0	0	0
7/4/2024 22:36	58705	ROSE_T2	2	2	0	1.3	1.45	0.15	0	0	0	0	0	0	0	0
7/4/2024 22:36	58003	WCAR_T1	1	1	0	0.8	1.2	0.4	1.02	1.04	0	0	0	0	0	0
7/4/2024 22:36	65601	QVIL_T2	14	1	-13	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
7/4/2024 22:36	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 22:36	64902	MILL_T2	0	0	0	0	0	0	-0.73	-0.75	1	1	0	900	900	0
7/4/2024 22:36	58706	ROSE_T2	1	1	0	1	0.8	-0.2	1.04	1.04	1	1	0	600	600	0
7/4/2024 22:36	59201	THOM_T1	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
7/4/2024 22:36	66504	SMAN_T2	3	6	3	0.13	0	-0.13	0.48	0.49	0	0	0	0	0	0
7/4/2024 22:36	58702	ROSE_T2	1	1	0	1	1.5	0.5	0	0	0	0	0	0	0	0
7/4/2024 22:36	40101	HUNT_T2	0	0	0	0	0	0	-1.02	-1.06	0	0	0	0	0	0
7/4/2024 22:36	65603	QVIL_T2	18	0	-18	0.17	0	-0.17	0.46	0.42	0	0	0	0	0	0
7/4/2024 22:36	65604	QVIL_T2	3	2	-1	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
7/4/2024 22:36	67605	WARW_T1	0	0	0	0	0	0	-0.86	-0.91	0	0	0	0	0	0
7/4/2024 22:36	66505	SMAN_T2	1	3	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 22:36	64101	REFR_T1	0	3	3	0	0	0	1.38	1.4	0	0	0	0	0	0
7/4/2024 22:37	67203	TEHI_T1	0	0	0	0	0	0	1.29	1.29	1	1	0	900	900	0
7/4/2024 22:37	65604	QVIL_T2	3	2	-1	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
7/4/2024 22:37	64101	REFR_T1	0	3	3	0	0	0	0.69	0.7	0	0	0	0	0	0
7/4/2024 22:37	61703	ELIZ_T1	0	0	0	0	0	0	-2.33	-2.53	2	2	0	2100	2100	0
7/4/2024 22:37	52402	GRPA_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 22:37	42701	AUGU_T1	1	2	1	0.7	0.25	-0.45	0	0	2	2	0	1800	1800	0
7/4/2024 22:37	50701	SMEC_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
7/4/2024 22:37	65603	QVIL_T2	18	0	-18	0.17	0	-0.17	0	0	0	0	0	0	0	0
7/4/2024 22:37	24902	WHHA_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
7/4/2024 22:37	67402	WAKE_T2	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
7/4/2024 22:37	21203	ECAR_T1	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
7/4/2024 22:37	65601	QVIL_T2	14	1	-13	0.24	0.2	-0.04	0.65	0.58	0	0	0	0	0	0
7/4/2024 22:37	56801	BENV_T1	7	8	1	0.67	0.96	0.29	-0.36	-0.41	1	1	0	600	600	0
7/4/2024 22:37	67605	WARW_T1	0	0	0	0	0	0	-0.86	-0.91	0	0	0	0	0	0
7/4/2024 22:37	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 22:37	46001	BERW_T1	0	0	0	0	0	0	2.12	2.05	0	0	0	0	0	0
7/4/2024 22:37	60101	COCA_T1	0	0	0	0	0	0	0.82	0.83	0	0	0	0	0	0
7/4/2024 22:37	45602	WOOL_T1	221	155	-66	1.11	1.03	-0.08	0.51	0.53	0	0	0	0	0	0
7/4/2024 22:37	57403	SPAN_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
7/4/2024 22:37	52403	GRPA_T2	7	8	1	0.64	0.38	-0.26	0	0	0	0	0	0	0	0
7/4/2024 22:37	61701	ELIZ_T1	1	1	0	2.1	2.4	0.3	0	0	0	0	0	0	0	0
7/4/2024 22:37	60201	ATGL_T2	70	17	-53	0.31	0.14	-0.17	0.84	0.81	0	0	0	0	0	0
7/4/2024 22:37	66505	SMAN_T2	1	3	2	0.2	0	-0.2	0.04	0.07	3	3	0	2100	2100	0
7/4/2024 22:37	52401	GRPA_T2	0	1	1	0	0.1	0.1	-0.21	-0.23	0	0	0	0	0	0
7/4/2024 22:37	63401	HONY_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
7/4/2024 22:37	66504	SMAN_T2	3	6	3	0.13	0	-0.13	0.48	0.49	0	0	0	0	0	0
7/4/2024 22:38	44203	PCIN_T2	5	5	0	0.98	1.2	0.22	-0.86	-0.85	2	2	0	2100	2100	0
7/4/2024 22:38	52002	LING_T2	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
7/4/2024 22:38	56504	ROCK_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
7/4/2024 22:38	47402	PENS_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/4/2024 22:38	60801	BUCK_T1	66	33	-33	0.45	0.27	-0.18	0	0	0	0	0	0	0	0
7/4/2024 22:38	47401	PENS_T1	0	0	0	0	0	0	0.41	0.32	0	0	0	0	0	0
7/4/2024 22:38	61505	EPET_T1	0	0	0	0	0	0	1.1	1.08	0	0	0	0	0	0
7/4/2024 22:38	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 22:38	13503	MCMI_T2	0	135	135	0	0.32	0.32	-0.67	-0.69	0	0	0	0	0	0
7/4/2024 22:38	52403	GRPA_T2	7	8	1	0.64	0.38	-0.26	-0.35	-0.37	0	0	0	0	0	0
7/4/2024 22:38	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/4/2024 22:38	61703	ELIZ_T1	0	0	0	0	0	0	-2.33	-2.53	2	2	0	2100	2100	0
7/4/2024 22:38	42901	MIDD_T2	3	2	-1	0.87	0	-0.87	0	0	0	0	0	0	0	0
7/4/2024 22:38	65802	RTWN_T2	0	0	0	0	0	0	0.48	0.53	0	0	0	0	0	0
7/4/2024 22:38	60803	BUCK_T1	25	18	-7	0.81	0.59	-0.22	-0.3	-0.28	1	1	0	600	600	0
7/4/2024 22:38	61701	ELIZ_T1	1	1	0	2.1	2.4	0.3	0	0	0	0	0	0	0	0
7/4/2024 22:38	64101	REFR_T1	0	3	3	0	0	0	2.07	2.09	0	0	0	0	0	0
7/4/2024 22:38	67605	WARW_T1	0	0	0	0	0	0	-1.73	-1.82	0	0	0	0	0	0
7/4/2024 22:38	65803	RTWN_T2	7	4	-3	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
7/4/2024 22:38	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 22:38	52402	GRPA_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 22:38	45702	LIND_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
7/4/2024 22:38	42902	MIDD_T2	0	0	0	0	0	0	-2.01	-2.12	2	2	0	1200	1200	0
7/4/2024 22:38	57401	SPAN_T1	0	0	0	0	0	0	-0.56	-0.59	1	1	0	600	600	0
7/4/2024 22:38	59101	WALK_T2	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
7/4/2024 22:38	67901	WNHO_T2	5	33	28	0.17	0.25	0.08	-0.26	-0.27	0	0	0	0	0	0
7/4/2024 22:38	57403	SPAN_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
7/4/2024 22:38	56501	ROCK_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/4/2024 22:39	63305	GREE_T1	14	2	-12	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
7/4/2024 22:39	56801	BENV_T1	7	8	1	0.67	0.96	0.29	-0.72	-0.82	2	2	0	1200	1200	0
7/4/2024 22:39	63302	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/4/2024 22:39	63304	GREE_T1	0	0	0	0	0	0	-1.14	-1.15	0	0	0	0	0	0
7/4/2024 22:39	43302	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 22:39	60803	BUCK_T1	25	18	-7	0.81	0.59	-0.22	0	0	0	0	0	0	0	0
7/4/2024 22:39	44203	POIN_T2	5	5	0	0.98	1.2	0.22	-0.86	-0.85	2	2	0	2100	2100	0
7/4/2024 22:39	47001	HUGH_T2	3	3	0	7.33	6.3	-1.03	-0.46	-0.49	0	0	0	0	0	0
7/4/2024 22:39	60801	BUCK_T1	66	33	-33	0.45	0.27	-0.18	0.03	0	0	0	0	0	0	0
7/4/2024 22:39	42901	MIDD_T2	3	2	-1	0.87	0	-0.87	0	0	0	0	0	0	0	0
7/4/2024 22:39	64101	REFR_T1	0	3	3	0	0	0	0.69	0.7	0	0	0	0	0	0
7/4/2024 22:39	59101	WALK_T2	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
7/4/2024 22:39	52403	GRPA_T2	7	8	1	0.64	0.38	-0.26	-0.35	-0.37	0	0	0	0	0	0
7/4/2024 22:39	47401	PENS_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
7/4/2024 22:39	60502	NMAN_T2	1	0	-1	0.3	0	-0.3	0.2	0.2	0	0	0	0	0	0
7/4/2024 22:39	43304	WATS_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/4/2024 22:39	46801	HEPB_T2	37	2	-35	0.39	1.3	0.91	0	0	0	0	0	0	0	0
7/4/2024 22:39	42902	MIDD_T2	0	0	0	0	0	0	-1.01	-1.06	1	1	0	600	600	0
7/4/2024 22:39	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 22:39	47402	PENS_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/4/2024 22:39	65401	MARI_T1	12	13	1	0.74	0.83	0.09	0	0	0	0	0	0	0	0
7/4/2024 22:39	67904	WNHO_T1	0	0	0	0	0	0	-0.9	-0.91	1	1	0	1200	1200	0
7/4/2024 22:39	45702	LIND_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
7/4/2024 22:39	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 22:39	43202	MVIL_T2	60	59	-1	0.61	0.66	0.05	-0.47	-0.49	0	0	0	0	0	0
7/4/2024 22:39	60501	NMAN_T2	3	3	0	3.93	4.33	0.4	0	0	0	0	0	0	0	0
7/4/2024 22:39	65402	MARI_T1	50	18	-32	0.15	0.18	0.03	0	0	0	0	0	0	0	0
7/4/2024 22:39	46302	ROHR_T1	46	23	-23	0.44	0.53	0.09	0	0	0	0	0	0	0	0
7/4/2024 22:39	43301	WATS_T2	9	0	-9	0.13	0	-0.13	-0.3	-0.31	1	1	0	900	900	0
7/4/2024 22:39	52402	GRPA_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 22:39	65601	QVIL_T2	14	1	-13	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
7/4/2024 22:39	65603	QVIL_T2	18	0	-18	0.17	0	-0.17	0.46	0.42	0	0	0	0	0	0
7/4/2024 22:39	52401	GRPA_T2	0	1	1	0	0.1	0.1	-0.21	-0.23	0	0	0	0	0	0
7/4/2024 22:39	46301	ROHR_T1	295	247	-48	0.64	0.55	-0.09	0.4	0.36	0	0	0	0	0	0
7/4/2024 22:39	46803	HEPB_T2	21	0	-21	0.25	0	-0.25	0.43	0.44	0	0	0	0	0	0
7/4/2024 22:39	65604	QVIL_T2	3	2	-1	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
7/4/2024 22:40	47402	PENS_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/4/2024 22:40	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 22:40	64101	REFR_T1	0	3	3	0	0	0	0.69	0.7	0	0	0	0	0	0
7/4/2024 22:40	44301	BEAV_T2	1	0	-1	0.9	1.4	0.5	-0.8	-0.81	1	1	0	600	600	0
7/4/2024 22:40	52403	GRPA_T2	7	8	1	0.64	0.38	-0.26	-0.35	-0.37	0	0	0	0	0	0
7/4/2024 22:40	43304	WATS_T2	2	0	-2	0.25	0	-0.25	-0.45	-0.46	0	0	0	0	0	0
7/4/2024 22:40	57103	SPHI_T2	0	0	0	0	0	0	-0.4	-0.43	1	1	0	600	600	0
7/4/2024 22:40	47401	PENS_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
7/4/2024 22:40	57304	MOAL_T2	0	0	0	0	0	0	-0.12	-0.17	0	0	0	0	0	0
7/4/2024 22:40	52002	LING_T2	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
7/4/2024 22:40	57106	SPHI_T2	3	3	0	0.53	1	0.47	0	0	0	0	0	0	0	0
7/4/2024 22:40	54701	NEBL_T1	1	1	0	0.5	0.8	0.3	0	0	1	1	0	600	600	0
7/4/2024 22:40	45602	WOOL_T1	221	155	-66	1.11	1.03	-0.08	0.51	0.53	0	0	0	0	0	0
7/4/2024 22:40	46002	BERW_T2	0	0	0	0	0	0	-0.99	-0.98	1	1	0	900	900	0
7/4/2024 22:40	57303	MOAL_T2	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
7/4/2024 22:40	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 22:40	59101	WALK_T2	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
7/4/2024 22:40	42201	SHEN_T2	0	0	0	0	0	0	0.28	0.25	1	1	0	600	600	0
7/4/2024 22:40	52402	GRPA_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 22:40	43301	WATS_T2	9	0	-9	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/4/2024 22:40	43302	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 22:40	65502	MOJO_T2	0	0	0	0	0	0	-1.28	-1.35	1	1	0	900	900	0
7/4/2024 22:40	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 22:40	61701	ELIZ_T1	1	1	0	2.1	2.4	0.3	0	0	0	0	0	0	0	0
7/4/2024 22:40	61703	ELIZ_T1	0	0	0	0	0	0	-4.65	-5.07	4	4	0	4200	4200	0
7/4/2024 22:41	67201	TEHI_T1	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
7/4/2024 22:41	64101	REFR_T1	0	3	3	0	0	0	0.69	0.7	0	0	0	0	0	0
7/4/2024 22:41	57401	SPAN_T1	0	0	0	0	0	0	-0.56	-0.59	1	1	0	600	600	0
7/4/2024 22:41	43304	WATS_T2	2	0	-2	0.25	0	-0.25	-0.45	-0.46	0	0	0	0	0	0
7/4/2024 22:41	13503	MCMI_T2	0	135	135	0	0.32	0.32	-0.67	-0.69	0	0	0	0	0	0
7/4/2024 22:41	46801	HEPB_T2	37	2	-35	0.39	1.3	0.91	0	0	0	0	0	0	0	0
7/4/2024 22:41	43301	WATS_T2	9	0	-9	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/4/2024 22:41	64204	KINZ_T1	3	1	-2	0.47	1	0.53	0	0	0	0	0	0	0	0
7/4/2024 22:41	43302	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 22:41	42701	AUGU_T1	1	2	1	0.7	0.25	-0.45	0	0	2	2	0	1800	1800	0
7/4/2024 22:41	64202	KINZ_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
7/4/2024 22:41	46803	HEPB_T2	21	0	-21	0.25	0	-0.25	0.43	0.44	0	0	0	0	0	0
7/4/2024 22:41	46203	DANV_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
7/4/2024 22:41	47001	HUGH_T2	3	3	0	7.33	6.3	-1.03	-0.46	-0.49	0	0	0	0	0	0
7/4/2024 22:41	64203	KINZ_T1	0	0	0	0	0	0	0.67	0.63	0	0	0	0	0	0
7/4/2024 22:41	64201	KINZ_T1	4	1	-3	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
7/4/2024 22:41	63804	HEMP_T1	1	1	0	6	6.1	0.1	0.25	0.2	0	0	0	0	0	0
7/4/2024 22:41	40101	HUNT_T2	0	0	0	0	0	0	-1.06	-0.48	0	0	0	0	0	0
7/4/2024 22:41	43402	BENT_T1	0	0	0	0	0	0	-0.82	-0.84	1	1	0	900	900	0
7/4/2024 22:42	42901	MIDD_T2	3	2	-1	0.87	0	-0.87	0	0	0	0	0	0	0	0
7/4/2024 22:42	45602	WOOL_T1	221	155	-66	1.11	1.03	-0.08	0.51	0.53	0	0	0	0	0	0
7/4/2024 22:42	67402	WAKE_T2	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
7/4/2024 22:42	66703	STRA_T1	0	0	0	0	0	0	0.25	0.17	0	0	0	0	0	0
7/4/2024 22:42	55002	NEWP_T1	2	3	1	0.25	0.33	0.08	0	0	0	0	0	0	0	0
7/4/2024 22:42	56501	ROCK_T2	1	0	-1	0.4	0	-0.4	-1.35	-1.32	0	0	0	0	0	0
7/4/2024 22:42	49803	UNIV_T1	0	0	0	0	0	0	-2.02	-2.06	0	0	0	0	0	0
7/4/2024 22:42	43301	WATS_T2	9	0	-9	0.13	0	-0.13	-0.3	-0.31	1	1	0	900	900	0
7/4/2024 22:42	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/4/2024 22:42	56801	BENV_T1	7	8	1	0.67	0.96	0.29	-0.36	-0.41	1	1	0	600	600	0
7/4/2024 22:42	43302	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 22:42	40802	EXCH_T2	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
7/4/2024 22:42	46203	DANV_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
7/4/2024 22:42	43202	MVIL_T2	60	59	-1	0.61	0.66	0.05	-0.47	-0.49	0	0	0	0	0	0
7/4/2024 22:42	59101	WALK_T2	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
7/4/2024 22:42	42902	MIDD_T2	0	0	0	0	0	0	-1.01	-1.06	1	1	0	600	600	0
7/4/2024 22:42	44801	EDAN_T2	1	1	0	0.8	0.8	0	0.74	0.71	0	0	0	0	0	0
7/4/2024 22:42	43304	WATS_T2	2	0	-2	0.25	0	-0.25	-0.45	-0.46	0	0	0	0	0	0
7/4/2024 22:42	55001	NEWP_T1	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
7/4/2024 22:43	40101	HUNT_T2	0	0	0	0	0	0	-1.06	-0.48	0	0	0	0	0	0
7/4/2024 22:43	44301	BEAV_T2	1	1	0	0.9	1.4	0.5	-0.8	-0.81	1	1	0	600	600	0
7/4/2024 22:43	47401	PENS_T1	0	0	0	0	0	0	0.27	0.21	0	0	0	0	0	0
7/4/2024 22:43	43202	MVIL_T2	60	59	-1	0.61	0.66	0.05	-0.47	-0.49	0	0	0	0	0	0
7/4/2024 22:43	64101	REFR_T1	0	3	3	0	0	0	0.69	0.7	0	0	0	0	0	0
7/4/2024 22:43	40901	JESH_T1	1	1	0	1.2	1.7	0.5	0	0	0	0	0	0	0	0
7/4/2024 22:43	40902	JESH_T1	0	0	0	0	0	0	-0.27	-0.31	0	0	0	0	0	0
7/4/2024 22:43	46801	HEPB_T2	37	2	-35	0.39	1.3	0.91	0	0.02	0	0	0	0	0	0
7/4/2024 22:43	49804	UNIV_T1	0	0	0	0	0	0	0.87	0.9	0	0	0	0	0	0
7/4/2024 22:43	46803	HEPB_T2	21	0	-21	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/4/2024 22:43	43302	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 22:43	41901	REED_T1	9	9	0	0.56	0.64	0.08	0	0	0	0	0	0	0	0
7/4/2024 22:43	52002	LING_T2	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
7/4/2024 22:43	43304	WATS_T2	2	0	-2	0.25	0	-0.25	-0.9	-0.91	0	0	0	0	0	0
7/4/2024 22:43	43301	WATS_T2	9	0	-9	0.13	0	-0.13	-0.3	-0.31	1	1	0	900	900	0
7/4/2024 22:43	41902	REED_T1	0	0	0	0	0	0	0.25	0.27	1	1	0	900	900	0
7/4/2024 22:43	41903	REED_T1	0	0	0	0	0	0	0.96	0.94	0	0	0	0	0	0
7/4/2024 22:43	44203	POIN_T2	5	5	0	0.98	1.2	0.22	-0.86	-0.85	2	2	0	2100	2100	0
7/4/2024 22:43	46203	DANV_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
7/4/2024 22:43	47402	PENS_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/4/2024 22:43	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 22:43	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/4/2024 22:44	43302	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/4/2024 22:44	43304	WATS_T2	2	0	-2	0.25	0	-0.25	-0.45	-0.46	0	0	0	0	0	0
7/4/2024 22:44	67901	WNHO_T2	5	33	28	0.17	0.25	0.08	-0.26	-0.27	0	0	0	0	0	0
7/4/2024 22:44	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 22:44	40901	JESH_T1	1	1	0	1.2	1.7	0.5	0	0	0	0	0	0	0	0
7/4/2024 22:44	42902	MIDD_T2	0	0	0	0	0	0	-1.01	-1.06	1	1	0	600	600	0
7/4/2024 22:44	44201	POIN_T1	0	0	0	0	0	0	-1.63	-1.66	1	1	0	1200	1200	0
7/4/2024 22:44	52002	LING_T2	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
7/4/2024 22:44	40902	JESH_T1	0	0	0	0	0	0	-0.27	-0.31	0	0	0	0	0	0
7/4/2024 22:44	42901	MIDD_T2	3	2	-1	0.87	0	-0.87	0	0	0	0	0	0	0	0
7/4/2024 22:44	44801	EDAN_T2	1	1	0	0.8	0.8	0	0.74	0.71	0	0	0	0	0	0
7/4/2024 22:44	46302	ROHR_T1	46	23	-23	0.44	0.53	0.09	0.35	0.36	0	0	0	0	0	0
7/4/2024 22:44	43301	WATS_T2	9	0	-9	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/4/2024 22:44	56801	BENV_T1	7	8	1	0.67	0.96	0.29	-0.72	-0.82	2	2	0	1200	1200	0
7/4/2024 22:44	46301	ROHR_T1	295	247	-48	0.64	0.55	-0.09	0.4	0.36	0	0	0	0	0	0
7/4/2024 22:44	42701	AUGU_T1	1	2	1	0.7	0.25	-0.45	0	0	2	2	0	1800	1800	0
7/4/2024 22:45	61304	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 22:45	44801	EDAN_T2	1	1	0	0.8	0.8	0	0.74	0.71	0	0	0	0	0	0
7/4/2024 22:45	61301	EARL_T1	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
7/4/2024 22:45	46302	ROHR_T1	23	16	-7	0.47	0.63	0.16	0.35	0.36	0	0	0	0	0	0
7/4/2024 22:45	56803	BENV_T1	0	5	5	0	0.22	0.22	0	0	0	0	0	0	0	0
7/4/2024 22:45	67605	WARW_T1	0	0	0	0	0	0	-0.86	-0.91	0	0	0	0	0	0
7/4/2024 22:45	24901	WHHA_T1	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
7/4/2024 22:45	56801	BENV_T1	6	10	4	0.97	0.95	-0.02	-0.36	-0.41	1	1	0	600	600	0
7/4/2024 22:45	46301	ROHR_T1	226	237	11	0.55	0.55	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/4/2024 22:46	40101	HUNT_T2	0	0	0	0	0	0	-1.06	-0.48	0	0	0	0	0	0
7/4/2024 22:46	43304	WATS_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
7/4/2024 22:46	56803	BENV_T1	0	5	5	0	0.22	0.22	0	0	0	0	0	0	0	0
7/4/2024 22:46	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 22:46	56801	BENV_T1	6	10	4	0.97	0.95	-0.02	-0.36	-0.41	1	1	0	600	600	0
7/4/2024 22:46	43402	BENT_T1	0	0	0	0	0	0	-1.64	-1.68	2	2	0	1800	1800	0
7/4/2024 22:47	44301	BEAV_T2	1	1	0	1.4	0.1	-1.3	-0.8	-0.81	1	1	0	600	600	0
7/4/2024 22:47	46302	ROHR_T1	23	16	-7	0.47	0.63	0.16	0.35	0.36	0	0	0	0	0	0
7/4/2024 22:47	42902	MIDD_T2	0	0	0	0	0	0	-1.01	-1.06	1	1	0	600	600	0
7/4/2024 22:47	41902	REED_T1	0	0	0	0	0	0	0.25	0.27	1	1	0	900	900	0
7/4/2024 22:47	43202	MVIL_T2	59	56	-3	0.66	0.5	-0.16	-0.47	-0.49	0	0	0	0	0	0
7/4/2024 22:47	56803	BENV_T1	0	5	5	0	0.22	0.22	0	0	0	0	0	0	0	0
7/4/2024 22:47	56801	BENV_T1	6	10	4	0.97	0.95	-0.02	-0.36	-0.41	1	1	0	600	600	0
7/4/2024 22:47	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/4/2024 22:47	41901	REED_T1	9	9	0	0.59	0.7	0.11	0	0	0	0	0	0	0	0
7/4/2024 22:47	47401	PENS_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
7/4/2024 22:47	42901	MIDD_T2	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/4/2024 22:47	46301	ROHR_T1	226	237	11	0.55	0.55	0	0	0	0	0	0	0	0	0
7/4/2024 22:48	43304	WATS_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
7/4/2024 22:49	44302	BEAV_T2	0	0	0	0	0	0	0.45	0.49	0	0	0	0	0	0
7/4/2024 22:49	43304	WATS_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
7/4/2024 22:49	42902	MIDD_T2	0	0	0	0	0	0	-1.01	-1.06	1	1	0	600	600	0
7/4/2024 22:49	44301	BEAV_T2	1	1	0	1.4	0.1	-1.3	0	0	0	0	0	0	0	0
7/4/2024 22:49	42901	MIDD_T2	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/4/2024 22:49	45602	WOOL_T1	154	169	15	1.03	0.98	-0.05	0.51	0.53	0	0	0	0	0	0
7/4/2024 22:57	64101	REFR_T1	0	3	3	0	0.2	0.2	0.7	0.67	0	0	0	0	0	0
7/4/2024 23:05	51002	NHAR_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
7/4/2024 23:05	66505	SMAN_T2	3	0	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
7/4/2024 23:05	66504	SMAN_T2	1	1	0	0.2	0.1	-0.1	0.49	0.52	0	0	0	0	0	0
7/4/2024 23:05	51003	NHAR_T1	0	0	0	0	0	0	-1.61	-1.69	1	1	0	1200	1200	0
7/4/2024 23:05	51004	NHAR_T1	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
7/4/2024 23:07	67605	WARW_T1	0	0	0	0	0	0	-0.88	-0.92	0	0	0	0	0	0
7/4/2024 23:08	67605	WARW_T1	0	0	0	0	0	0	-0.88	-0.92	0	0	0	0	0	0
7/4/2024 23:08	47101	MARL_T1	10	10	0	0.59	0	-0.59	-0.42	-0.48	0	0	0	0	0	0
7/4/2024 23:21	64204	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/4/2024 23:21	64201	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 23:21	64203	KINZ_T1	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
7/4/2024 23:21	64202	KINZ_T1	3	3	0	0.33	0.53	0.2	0	0	0	0	0	0	0	0
7/4/2024 23:21	65901	SAKR_T2	1	1	0	7.8	8.1	0.3	-0.9	-0.93	2	2	0	1500	1500	0
7/4/2024 23:22	64202	KINZ_T1	3	3	0	0.33	0.53	0.2	0	0	0	0	0	0	0	0
7/4/2024 23:22	64201	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/4/2024 23:22	64204	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/4/2024 23:22	64203	KINZ_T1	0	0	0	0	0	0	0.61	0.55	0	0	0	0	0	0
7/4/2024 23:25	43402	BENT_T1	0	0	0	0	0	0	-0.86	-0.84	1	1	0	900	900	0
7/4/2024 23:26	43402	BENT_T1	0	0	0	0	0	0	-0.86	-0.84	1	1	0	900	900	0
7/4/2024 23:29	67605	WARW_T1	0	0	0	0	0	0	-0.92	-0.97	0	0	0	0	0	0
7/4/2024 23:30	67605	WARW_T1	0	0	0	0	0	0	-0.92	-0.97	0	0	0	0	0	0
7/4/2024 23:43	64201	KINZ_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/4/2024 23:43	64202	KINZ_T1	3	3	0	0.53	0.67	0.14	0	0	0	0	0	0	0	0
7/4/2024 23:43	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/4/2024 23:43	64203	KINZ_T1	0	0	0	0	0	0	0.55	0.57	0	0	0	0	0	0
7/4/2024 23:44	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/4/2024 23:44	64203	KINZ_T1	0	0	0	0	0	0	0.55	0.57	0	0	0	0	0	0
7/4/2024 23:44	64201	KINZ_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/4/2024 23:44	64202	KINZ_T1	3	3	0	0.53	0.67	0.14	0	0	0	0	0	0	0	0
7/4/2024 23:51	67605	WARW_T1	0	0	0	0	0	0	-0.97	-1	0	0	0	0	0	0
7/4/2024 23:52	67605	WARW_T1	0	0	0	0	0	0	-1	-1.02	0	0	0	0	0	0
7/5/2024 0:05	64202	KINZ_T1	3	3	0	0.67	0.4	-0.27	0	0	0	0	0	0	0	0
7/5/2024 0:05	64203	KINZ_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
7/5/2024 0:05	64204	KINZ_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
7/5/2024 0:05	64201	KINZ_T1	1	5	4	0.5	0.38	-0.12	0	0	0	0	0	0	0	0
7/5/2024 0:06	64204	KINZ_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
7/5/2024 0:06	64202	KINZ_T1	3	3	0	0.67	0.4	-0.27	0	0	0	0	0	0	0	0
7/5/2024 0:06	64203	KINZ_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
7/5/2024 0:06	64201	KINZ_T1	1	5	4	0.5	0.38	-0.12	0	0	0	0	0	0	0	0
7/5/2024 0:08	64605	LEOL_T1	0	0	0	0	0	0	-0.15	-0.15	1	1	0	300	300	0
7/5/2024 0:14	22901	HARW_T1	0	0	0	0	0	0	-0.47	-0.54	1	1	0	1200	1200	0
7/5/2024 0:14	22903	HARW_T1	1	2	1	0.1	1.2	1.1	0	0	0	0	0	0	0	0
7/5/2024 0:27	64204	KINZ_T1	1	2	1	1.1	0.55	-0.55	0	0	0	0	0	0	0	0
7/5/2024 0:27	64203	KINZ_T1	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
7/5/2024 0:27	64201	KINZ_T1	1	5	4	1.2	0.4	-0.8	0	0	0	0	0	0	0	0
7/5/2024 0:27	64202	KINZ_T1	3	3	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
7/5/2024 0:28	64202	KINZ_T1	3	3	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
7/5/2024 0:28	64201	KINZ_T1	1	5	4	1.2	0.4	-0.8	0	0	0	0	0	0	0	0
7/5/2024 0:28	64204	KINZ_T1	1	2	1	1.1	0.55	-0.55	0	0	0	0	0	0	0	0
7/5/2024 0:28	64203	KINZ_T1	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
7/5/2024 0:31	43402	BENT_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	900	900	0
7/5/2024 0:31	43401	BENT_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 0:32	43401	BENT_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 0:32	43402	BENT_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	900	900	0
7/5/2024 0:50	64201	KINZ_T1	5	16	11	0.4	0.31	-0.09	0	0	0	0	0	0	0	0
7/5/2024 0:50	64203	KINZ_T1	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
7/5/2024 0:50	64202	KINZ_T1	3	5	2	0.4	0.34	-0.06	0	0	0	0	0	0	0	0
7/5/2024 0:50	64204	KINZ_T1	2	16	14	0.5	0.24	-0.26	0	0	0	0	0	0	0	0
7/5/2024 0:51	64203	KINZ_T1	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
7/5/2024 0:51	64202	KINZ_T1	3	5	2	0.4	0.34	-0.06	0	0	0	0	0	0	0	0
7/5/2024 0:51	64201	KINZ_T1	5	16	11	0.4	0.31	-0.09	0	0	0	0	0	0	0	0
7/5/2024 0:51	64204	KINZ_T1	2	16	14	0.5	0.24	-0.26	0	0	0	0	0	0	0	0
7/5/2024 1:13	64204	KINZ_T1	16	1	-15	0.24	0.6	0.36	0	0	0	0	0	0	0	0
7/5/2024 1:13	64201	KINZ_T1	16	1	-15	0.31	1	0.69	0	0	0	0	0	0	0	0
7/5/2024 1:13	64202	KINZ_T1	5	1	-4	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
7/5/2024 1:13	64203	KINZ_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
7/5/2024 1:14	64203	KINZ_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
7/5/2024 1:14	64201	KINZ_T1	16	1	-15	0.31	1	0.69	0	0	0	0	0	0	0	0
7/5/2024 1:14	64204	KINZ_T1	16	1	-15	0.24	0.6	0.36	0	0	0	0	0	0	0	0
7/5/2024 1:14	64202	KINZ_T1	5	1	-4	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
7/5/2024 1:16	43402	BENT_T1	0	0	0	0	0	0	-0.85	-0.88	1	1	0	900	900	0
7/5/2024 1:17	43402	BENT_T1	0	0	0	0	0	0	-0.85	-0.88	1	1	0	900	900	0
7/5/2024 1:35	64204	KINZ_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
7/5/2024 1:35	64201	KINZ_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
7/5/2024 1:35	64202	KINZ_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/5/2024 1:35	64203	KINZ_T1	0	0	0	0	0	0	0.55	0.47	0	0	0	0	0	0
7/5/2024 1:36	64203	KINZ_T1	0	0	0	0	0	0	0.55	0.47	0	0	0	0	0	0
7/5/2024 1:36	64201	KINZ_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
7/5/2024 1:36	64204	KINZ_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
7/5/2024 1:36	64202	KINZ_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/5/2024 1:58	64201	KINZ_T1	1	6	5	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
7/5/2024 1:58	64204	KINZ_T1	1	11	10	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
7/5/2024 1:58	64202	KINZ_T1	1	4	3	0.1	0.35	0.25	0	0	0	0	0	0	0	0
7/5/2024 1:58	64203	KINZ_T1	0	0	0	0	0	0	0.51	0.57	0	0	0	0	0	0
7/5/2024 1:59	64204	KINZ_T1	1	11	10	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
7/5/2024 1:59	64203	KINZ_T1	0	0	0	0	0	0	0.51	0.57	0	0	0	0	0	0
7/5/2024 1:59	64201	KINZ_T1	1	6	5	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
7/5/2024 1:59	64202	KINZ_T1	1	4	3	0.1	0.35	0.25	0	0	0	0	0	0	0	0
7/5/2024 2:01	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.89	1	1	0	900	900	0
7/5/2024 2:02	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.89	1	1	0	900	900	0
7/5/2024 2:20	64201	KINZ_T1	6	13	7	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
7/5/2024 2:20	64204	KINZ_T1	11	25	14	0.25	0.3	0.05	0	0	0	0	0	0	0	0
7/5/2024 2:20	64203	KINZ_T1	0	7	7	0	0.1	0.1	0.57	0.5	0	0	0	0	0	0
7/5/2024 2:20	64202	KINZ_T1	4	12	8	0.35	0.38	0.03	0	0	0	0	0	0	0	0
7/5/2024 2:21	64202	KINZ_T1	4	12	8	0.35	0.38	0.03	0	0	0	0	0	0	0	0
7/5/2024 2:21	64201	KINZ_T1	6	13	7	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
7/5/2024 2:21	64203	KINZ_T1	0	7	7	0	0.1	0.1	0.57	0.5	0	0	0	0	0	0
7/5/2024 2:21	64204	KINZ_T1	11	25	14	0.25	0.3	0.05	0	0	0	0	0	0	0	0
7/5/2024 2:43	64202	KINZ_T1	12	12	0	0.34	0.37	0.03	0	0	0	0	0	0	0	0
7/5/2024 2:43	64204	KINZ_T1	25	22	-3	0.29	0.29	0	0	0	0	0	0	0	0	0
7/5/2024 2:43	64201	KINZ_T1	13	8	-5	0.35	0.48	0.13	0	0	0	0	0	0	0	0
7/5/2024 2:43	64203	KINZ_T1	7	5	-2	0.1	0.1	0	0.57	0.48	0	0	0	0	0	0
7/5/2024 2:44	64204	KINZ_T1	25	22	-3	0.29	0.29	0	0	0	0	0	0	0	0	0
7/5/2024 2:44	64201	KINZ_T1	13	8	-5	0.35	0.48	0.13	0	0	0	0	0	0	0	0
7/5/2024 2:44	64203	KINZ_T1	7	5	-2	0.1	0.1	0	0.57	0.48	0	0	0	0	0	0
7/5/2024 2:44	64202	KINZ_T1	12	12	0	0.34	0.37	0.03	0	0	0	0	0	0	0	0
7/5/2024 2:46	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
7/5/2024 2:47	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
7/5/2024 3:05	64204	KINZ_T1	22	24	2	0.28	0.28	0	0	0	0	0	0	0	0	0
7/5/2024 3:05	64203	KINZ_T1	5	3	-2	0.1	0.1	0	0.48	0.51	0	0	0	0	0	0
7/5/2024 3:05	64202	KINZ_T1	10	12	2	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
7/5/2024 3:05	64201	KINZ_T1	8	8	0	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
7/5/2024 3:06	64203	KINZ_T1	5	3	-2	0.1	0.1	0	0.48	0.51	0	0	0	0	0	0
7/5/2024 3:06	64202	KINZ_T1	10	12	2	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
7/5/2024 3:06	64201	KINZ_T1	8	8	0	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
7/5/2024 3:06	64204	KINZ_T1	22	24	2	0.28	0.28	0	0	0	0	0	0	0	0	0
7/5/2024 3:27	67603	WARW_T1	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
7/5/2024 3:27	67605	WARW_T1	6	12	6	0.27	0.27	0	0	0	0	0	0	0	0	0
7/5/2024 3:28	64204	KINZ_T1	21	27	6	0.24	0.29	0.05	0	0	0	0	0	0	0	0
7/5/2024 3:28	64201	KINZ_T1	7	12	5	0.44	0.39	-0.05	0	0	0	0	0	0	0	0
7/5/2024 3:28	64203	KINZ_T1	0	11	11	0	0.11	0.11	0.46	0.5	0	0	0	0	0	0
7/5/2024 3:28	64202	KINZ_T1	9	12	3	0.32	0.36	0.04	0	0	0	0	0	0	0	0
7/5/2024 3:29	64201	KINZ_T1	7	12	5	0.44	0.39	-0.05	0	0	0	0	0	0	0	0
7/5/2024 3:29	64204	KINZ_T1	21	27	6	0.24	0.29	0.05	0	0	0	0	0	0	0	0
7/5/2024 3:29	64203	KINZ_T1	0	11	11	0	0.11	0.11	0.46	0.5	0	0	0	0	0	0
7/5/2024 3:29	64202	KINZ_T1	9	12	3	0.32	0.36	0.04	0	0	0	0	0	0	0	0
7/5/2024 3:31	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	900	900	0
7/5/2024 3:31	43401	BENT_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 3:32	54503	ENOL_T2	0	0	0	0	0	0	-0.98	-1.06	1	1	0	600	600	0
7/5/2024 3:32	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	900	900	0
7/5/2024 3:32	43401	BENT_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 3:50	64201	KINZ_T1	12	6	-6	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
7/5/2024 3:50	64202	KINZ_T1	12	0	-12	0.33	0	-0.33	0	0	0	0	0	0	0	0
7/5/2024 3:50	64204	KINZ_T1	27	4	-23	0.29	0.3	0.01	0	0	0	0	0	0	0	0
7/5/2024 3:50	64203	KINZ_T1	11	0	-11	0.11	0	-0.11	0.5	0.45	0	0	0	0	0	0
7/5/2024 3:51	64201	KINZ_T1	12	6	-6	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
7/5/2024 3:51	64203	KINZ_T1	11	0	-11	0.11	0	-0.11	0.5	0.45	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/5/2024 3:51	64204	KINZ_T1	27	4	-23	0.29	0.3	0.01	0	0	0	0	0	0	0	0
7/5/2024 3:51	64202	KINZ_T1	12	0	-12	0.33	0	-0.33	0	0	0	0	0	0	0	0
7/5/2024 3:56	24802	VALM_T1	0	0	0	0	0	0	1.05	1	0	0	0	0	0	0
7/5/2024 4:13	64203	KINZ_T1	0	0	0	0	0	0	0.45	0.41	0	0	0	0	0	0
7/5/2024 4:13	64201	KINZ_T1	5	1	-4	0.36	0.7	0.34	0	0	0	0	0	0	0	0
7/5/2024 4:13	64204	KINZ_T1	3	1	-2	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/5/2024 4:14	64201	KINZ_T1	5	1	-4	0.36	0.7	0.34	0	0	0	0	0	0	0	0
7/5/2024 4:14	64203	KINZ_T1	0	0	0	0	0	0	0.45	0.41	0	0	0	0	0	0
7/5/2024 4:14	64204	KINZ_T1	3	1	-2	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/5/2024 4:16	43402	BENT_T1	0	0	0	0	0	0	-0.84	-0.78	1	1	0	900	900	0
7/5/2024 4:17	43402	BENT_T1	0	0	0	0	0	0	-0.84	-0.78	1	1	0	900	900	0
7/5/2024 5:17	22903	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 5:17	22905	HARW_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
7/5/2024 6:44	62102	ELAN_T1	0	0	0	0	0	0	0.9	0.96	0	0	0	0	0	0
7/5/2024 6:51	44902	SCOT_T2	0	35	35	0	0.11	0.11	-2.03	-2.02	0	0	0	0	0	0
7/5/2024 7:11	67503	WEWI_T2	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
7/5/2024 7:15	64903	MILL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/5/2024 7:15	64902	MILL_T2	0	0	0	0	0	0	-0.9	-0.87	1	1	0	900	900	0
7/5/2024 7:16	13501	MCMI_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
7/5/2024 7:28	22905	HARW_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
7/5/2024 7:29	24104	EHAZ_T1	0	0	0	0	0	0	-2.12	-2.12	1	1	0	1200	1200	0
7/5/2024 7:29	24105	EHAZ_T1	4	4	0	5.9	5.65	-0.25	0	0	0	0	0	0	0	0
7/5/2024 7:29	24101	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 7:33	12402	MILF_T1	1	5	4	0.4	0.13	-0.27	0	0	0	0	0	0	0	0
7/5/2024 7:33	12401	MILF_T1	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
7/5/2024 7:34	12402	MILF_T1	1	5	4	0.4	0.13	-0.27	0	0	0	0	0	0	0	0
7/5/2024 7:34	12401	MILF_T1	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
7/5/2024 7:40	22003	BOHE_T1	1	2	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
7/5/2024 7:40	22002	BOHE_T1	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
7/5/2024 7:40	60801	BUCK_T1	40	56	16	0.33	0.44	0.11	-0.01	0.01	0	0	0	0	0	0
7/5/2024 7:40	60803	BUCK_T1	18	20	2	0.52	0.77	0.25	0	0	0	0	0	0	0	0
7/5/2024 7:43	21203	ECAR_T1	0	0	0	0	0	0	0.65	-0.27	0	0	0	0	0	0
7/5/2024 7:46	63306	GREE_T1	0	0	0	0	0	0	-1.82	-1.84	1	1	0	900	900	0
7/5/2024 7:47	63306	GREE_T1	0	0	0	0	0	0	-1.82	-1.84	1	1	0	900	900	0
7/5/2024 7:52	58402	MORO_T1	2	1	-1	1.25	0	-1.25	-0.84	-0.68	3	3	0	2400	2400	0
7/5/2024 7:52	58401	MORO_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/5/2024 8:06	13905	SEID_T1	0	0	0	0	0	0	-0.76	-0.72	1	1	0	1200	1200	0
7/5/2024 8:07	57106	SPHI_T2	3	3	0	0.77	1.37	0.6	0	0	0	0	0	0	0	0
7/5/2024 8:07	57101	SPHI_T2	0	6	6	0	0.18	0.18	0	0	0	0	0	0	0	0
7/5/2024 8:07	57103	SPHI_T2	0	0	0	0	0	0	-0.68	-0.65	1	1	0	600	600	0
7/5/2024 8:09	46004	BERW_T2	0	1	1	0	1	1	-0.3	-0.27	0	0	0	0	0	0
7/5/2024 8:12	46203	DANV_T2	0	0	0	0	0	0	-1.61	-1.65	0	0	0	0	0	0
7/5/2024 8:12	63305	GREE_T1	0	0	0	0	0	0	-1.59	-1.58	1	1	0	900	900	0
7/5/2024 8:12	46206	DANV_T2	2	2	0	1.8	1.2	-0.6	0	0	0	0	0	0	0	0
7/5/2024 8:15	62102	ELAN_T1	0	0	0	0	0	0	1.07	1.08	0	0	0	0	0	0
7/5/2024 8:15	63305	GREE_T1	0	0	0	0	0	0	-1.59	-1.58	1	1	0	900	900	0
7/5/2024 8:15	64904	MILL_T1	0	0	0	0	0	0	-0.02	0.04	0	0	0	0	0	0
7/5/2024 8:16	50506	MECH_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
7/5/2024 8:16	12006	HATF_T1	0	0	0	0	0	0	1.36	1.48	0	0	0	0	0	0
7/5/2024 8:16	63804	HEMP_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
7/5/2024 8:16	50502	MECH_T1	1	1	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
7/5/2024 8:16	50501	MECH_T1	3	3	0	1.7	0.83	-0.87	0	0	0	0	0	0	0	0
7/5/2024 8:16	63801	HEMP_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
7/5/2024 8:18	59002	MIFF_T1	5	5	0	0.18	0.52	0.34	0	0	0	0	0	0	0	0
7/5/2024 8:18	59003	MIFF_T1	0	1	1	0	0.3	0.3	0.26	0.32	0	0	0	0	0	0
7/5/2024 8:20	64802	MONE_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
7/5/2024 8:20	57403	SPAN_T1	18	26	8	0.29	0.33	0.04	0.15	0.2	0	0	0	0	0	0
7/5/2024 8:23	57403	SPAN_T1	18	26	8	0.29	0.33	0.04	0.2	0.26	0	0	0	0	0	0
7/5/2024 8:24	56802	BENV_T2	3	14	11	0.3	0.16	-0.14	-1.04	-1.02	0	0	0	0	0	0
7/5/2024 8:25	67801	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 8:25	67803	WLAN_T1	0	0	0	0	0	0	-1.21	-1.21	0	0	0	0	0	0
7/5/2024 8:25	56802	BENV_T2	3	14	11	0.3	0.16	-0.14	-2.08	-2.04	0	0	0	0	0	0
7/5/2024 8:27	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 8:27	56802	BENV_T2	3	14	11	0.3	0.16	-0.14	-1.04	-1.02	0	0	0	0	0	0
7/5/2024 8:27	21206	ECAR_T2	23	17	-6	1.05	1.15	0.1	0.3	0.26	0	0	0	0	0	0
7/5/2024 8:30	67604	WARW_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
7/5/2024 8:31	40101	HUNT_T2	0	1	1	0	0	0	-0.49	-0.42	0	0	0	0	0	0
7/5/2024 8:35	65603	QVIL_T2	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
7/5/2024 8:43	56802	BENV_T2	14	3	-11	0.16	0.23	0.07	-1.02	-0.95	0	0	0	0	0	0
7/5/2024 8:44	24702	FLND_T2	0	0	0	0	0	0	0.55	0.08	2	2	0	2400	2400	0
7/5/2024 8:50	65903	SAKR_T2	0	0	0	0	0	0	-0.53	-0.61	3	3	0	2100	2100	0
7/5/2024 8:50	65901	SAKR_T2	1	1	0	7.8	7.4	-0.4	0	0	0	0	0	0	0	0
7/5/2024 8:53	43304	WATS_T2	0	0	0	0	0	0	-0.29	-0.2	0	0	0	0	0	0
7/5/2024 8:54	17002	RIRO_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
7/5/2024 9:10	55405	SHER_T1	6	6	0	0.47	0.2	-0.27	0.33	0.38	0	0	0	0	0	0
7/5/2024 9:18	13503	MCMI_T2	21	17	-4	0.11	0.12	0.01	-0.77	-0.77	0	0	0	0	0	0
7/5/2024 9:19	56501	ROCK_T2	4	1	-3	0.15	0.2	0.05	-1.51	-1.4	0	0	0	0	0	0
7/5/2024 9:19	56503	ROCK_T2	0	1	1	0	3.7	3.7	0	0	0	0	0	0	0	0
7/5/2024 9:19	22602	KIMB_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
7/5/2024 9:20	55405	SHER_T1	6	6	0	0.18	0.33	0.15	0.33	0.38	0	0	0	0	0	0
7/5/2024 9:25	56803	BENV_T1	3	2	-1	1.33	0.1	-1.23	0	0	0	0	0	0	0	0
7/5/2024 9:25	56501	ROCK_T2	4	1	-3	0.15	0.2	0.05	-1.4	-1.37	0	0	0	0	0	0
7/5/2024 9:25	56801	BENV_T1	2	1	-1	0.15	0.3	0.15	-0.35	-0.33	1	1	0	600	600	0
7/5/2024 9:25	56503	ROCK_T2	0	1	1	0	3.7	3.7	0	0	0	0	0	0	0	0
7/5/2024 9:28	56802	BENV_T2	0	0	0	0	0	0	-0.89	-0.83	0	0	0	0	0	0
7/5/2024 9:28	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.72	0	0	0	0	0	0
7/5/2024 9:30	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.72	0	0	0	0	0	0
7/5/2024 9:30	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.72	0	0	0	0	0	0
7/5/2024 9:30	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.72	0	0	0	0	0	0
7/5/2024 9:30	56802	BENV_T2	0	1	1	0	0	0	-0.89	-0.83	0	0	0	0	0	0
7/5/2024 9:33	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.72	0	0	0	0	0	0
7/5/2024 9:40	60803	BUCK_T1	13	11	-2	0.29	0.25	-0.04	0	0	0	0	0	0	0	0
7/5/2024 9:40	60801	BUCK_T1	2	0	-2	0.1	0	-0.1	0.13	0.16	0	0	0	0	0	0
7/5/2024 9:40	22002	BOHE_T1	0	0	0	0	0	0	0.8	0.87	0	0	0	0	0	0
7/5/2024 9:40	22003	BOHE_T1	7	3	-4	0.56	0.9	0.34	0	0	0	0	0	0	0	0
7/5/2024 9:41	24902	WHHA_T1	1	1	0	0.4	0.2	-0.2	0.31	0.31	0	0	0	0	0	0
7/5/2024 9:42	24902	WHHA_T1	1	1	0	0.4	0.2	-0.2	0.31	0.31	0	0	0	0	0	0
7/5/2024 9:43	52404	GRPA_T2	0	0	0	0	0	0	0.39	-0.23	0	0	0	0	0	0
7/5/2024 9:43	52402	GRPA_T2	4	4	0	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
7/5/2024 9:43	52403	GRPA_T2	3	6	3	0.87	1.6	0.73	0	0	0	0	0	0	0	0
7/5/2024 9:45	52404	GRPA_T2	0	0	0	0	0	0	0.39	-0.23	0	0	0	0	0	0
7/5/2024 9:45	52403	GRPA_T2	5	7	2	1.92	1.2	-0.72	0	0	0	0	0	0	0	0
7/5/2024 9:45	52402	GRPA_T2	3	27	24	0.6	0.75	0.15	0	0	0	0	0	0	0	0
7/5/2024 9:47	64203	KINZ_T1	1	2	1	1	1.4	0.4	0.32	0.33	3	3	0	2100	2100	0
7/5/2024 9:47	64204	KINZ_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/5/2024 9:51	56501	ROCK_T2	1	1	0	0.4	0	-0.4	-1.37	-1.33	0	0	0	0	0	0
7/5/2024 9:51	56503	ROCK_T2	1	0	-1	3.7	0	-3.7	0	0	0	0	0	0	0	0
7/5/2024 9:52	56501	ROCK_T2	1	1	0	0.4	0	-0.4	-1.33	-1.29	0	0	0	0	0	0
7/5/2024 9:52	56503	ROCK_T2	1	0	-1	3.7	0	-3.7	0	0	0	0	0	0	0	0
7/5/2024 9:52	67605	WARW_T1	0	0	0	0	0	0	-0.69	-0.65	0	0	0	0	0	0
7/5/2024 9:53	56501	ROCK_T2	1	1	0	0.4	0	-0.4	-1.33	-1.29	0	0	0	0	0	0
7/5/2024 9:53	56503	ROCK_T2	1	0	-1	3.7	0	-3.7	0	0	0	0	0	0	0	0
7/5/2024 9:53	67605	WARW_T1	0	0	0	0	0	0	-0.69	-0.65	0	0	0	0	0	0
7/5/2024 9:55	56503	ROCK_T2	1	0	-1	3.7	0	-3.7	0	0	0	0	0	0	0	0
7/5/2024 9:55	56501	ROCK_T2	1	1	0	0.4	0	-0.4	-1.33	-1.29	0	0	0	0	0	0
7/5/2024 9:59	63401	HONY_T1	0	0	0	0	0	0	0.31	0.44	0	0	0	0	0	0
7/5/2024 9:59	52402	GRPA_T2	3	27	24	0.6	0.75	0.15	-0.5	-0.47	0	0	0	0	0	0
7/5/2024 9:59	52403	GRPA_T2	5	7	2	1.92	1.2	-0.72	0	0	0	0	0	0	0	0
7/5/2024 10:00	52002	LING_T2	0	2	2	0	0.1	0.1	1.81	1.82	0	0	0	0	0	0
7/5/2024 10:00	52402	GRPA_T2	4	34	30	0.83	0.43	-0.4	0	0	0	0	0	0	0	0
7/5/2024 10:00	52004	LING_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
7/5/2024 10:00	13905	SEID_T1	0	0	0	0	0	0	-0.62	-0.63	1	1	0	1200	1200	0
7/5/2024 10:00	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	1.02	1.09	0	0	0	0	0	0
7/5/2024 10:00	52001	LING_T1	0	1	1	0	0	0	0.65	0.68	0	0	0	0	0	0
7/5/2024 10:00	40505	CRES_T1	3	3	0	4.63	4.13	-0.5	0.79	0.81	0	0	0	0	0	0
7/5/2024 10:00	52403	GRPA_T2	6	11	5	1.4	1	-0.4	-0.1	-0.08	0	0	0	0	0	0
7/5/2024 10:00	10602	BLGL_T2	1	2	1	8.5	7.2	-1.3	0.81	1.37	0	0	0	0	0	0
7/5/2024 10:00	63401	HONY_T1	0	0	0	0	0	0	0.62	0.88	0	0	0	0	0	0
7/5/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
7/5/2024 10:00	60501	NMAN_T2	3	3	0	3.43	3.03	-0.4	0	0	0	0	0	0	0	0
7/5/2024 10:01	52002	LING_T2	0	2	2	0	0.1	0.1	0.6	0.61	0	0	0	0	0	0
7/5/2024 10:02	64204	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/5/2024 10:02	64203	KINZ_T1	2	2	0	1.15	1.4	0.25	0.33	0.22	3	3	0	2100	2100	0
7/5/2024 10:04	67605	WARW_T1	0	0	0	0	0	0	-0.69	-0.65	0	0	0	0	0	0
7/5/2024 10:06	64201	KINZ_T1	0	0	0	0	0	0	-0.18	-0.27	4	4	0	2100	2100	0
7/5/2024 10:06	64204	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/5/2024 10:06	52403	GRPA_T2	6	11	5	1.4	1	-0.4	0	0	0	0	0	0	0	0
7/5/2024 10:06	64203	KINZ_T1	2	2	0	1.15	1.4	0.25	0	0	0	0	0	0	0	0
7/5/2024 10:06	52402	GRPA_T2	4	34	30	0.83	0.43	-0.4	-0.5	-0.47	0	0	0	0	0	0
7/5/2024 10:07	55101	WERT_T1	0	0	0	0	0	0	-3.77	-3.59	8	8	0	6600	6600	0
7/5/2024 10:07	52002	LING_T2	0	2	2	0	0.1	0.1	0.61	0.66	0	0	0	0	0	0
7/5/2024 10:08	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 10:08	40602	PIGR_T1	1	0	-1	0.2	0	-0.2	-1.36	-1.32	0	0	0	0	0	0
7/5/2024 10:08	40601	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/5/2024 10:10	56801	BENV_T1	1	4	3	0.3	0.53	0.23	-0.26	-0.25	1	1	0	600	600	0
7/5/2024 10:10	56802	BENV_T2	0	0	0	0	0	0	-0.78	-0.71	0	0	0	0	0	0
7/5/2024 10:10	56803	BENV_T1	0	4	4	0	0.43	0.43	0	0	0	0	0	0	0	0
7/5/2024 10:11	55101	WERT_T1	0	0	0	0	0	0	-1.88	-1.8	4	4	0	3300	3300	0
7/5/2024 10:11	56802	BENV_T2	0	0	0	0	0	0	-0.78	-0.71	0	0	0	0	0	0
7/5/2024 10:12	60803	BUCK_T1	9	7	-2	0.14	0.17	0.03	0	0	0	0	0	0	0	0
7/5/2024 10:12	60801	BUCK_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
7/5/2024 10:13	46206	DANV_T2	2	2	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
7/5/2024 10:13	46203	DANV_T2	0	0	0	0	0	0	-1.4	-1.41	0	0	0	0	0	0
7/5/2024 10:14	46803	HEPB_T2	0	0	0	0	0	0	0.67	0.64	0	0	0	0	0	0
7/5/2024 10:14	46801	HEPB_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/5/2024 10:15	63304	GREE_T1	0	0	0	0	0	0	-2.18	-2.05	0	0	0	0	0	0
7/5/2024 10:15	52402	GRPA_T2	27	30	3	0.47	0.66	0.19	-0.47	-0.49	0	0	0	0	0	0
7/5/2024 10:15	52403	GRPA_T2	6	26	20	1.1	0.67	-0.43	0	0	0	0	0	0	0	0
7/5/2024 10:17	52402	GRPA_T2	27	30	3	0.47	0.66	0.19	0	0	0	0	0	0	0	0
7/5/2024 10:17	52403	GRPA_T2	6	26	20	1.1	0.67	-0.43	0	0	0	0	0	0	0	0
7/5/2024 10:17	52404	GRPA_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/5/2024 10:18	52002	LING_T2	2	1	-1	0.2	0.1	-0.1	0.61	0.66	0	0	0	0	0	0
7/5/2024 10:18	21206	ECAR_T2	7	12	5	1.4	2	0.6	0.34	0.33	0	0	0	0	0	0
7/5/2024 10:18	52403	GRPA_T2	6	26	20	1.1	0.67	-0.43	-0.08	0.02	0	0	0	0	0	0
7/5/2024 10:18	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 10:18	52402	GRPA_T2	27	30	3	0.47	0.66	0.19	0	0	0	0	0	0	0	0
7/5/2024 10:18	58401	MORO_T1	0	0	0	0	0	0	-0.83	-1.83	2	4	2	1200	2400	1200
7/5/2024 10:18	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 10:19	52403	GRPA_T2	6	26	20	1.1	0.67	-0.43	0	0	0	0	0	0	0	0
7/5/2024 10:19	56501	ROCK_T2	0	1	1	0	0.7	0.7	-1.29	-1.2	0	0	0	0	0	0
7/5/2024 10:19	52402	GRPA_T2	27	30	3	0.47	0.66	0.19	0	0	0	0	0	0	0	0
7/5/2024 10:19	52404	GRPA_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
7/5/2024 10:20	66703	STRA_T1	1	0	-1	0.1	0	-0.1	1.53	-0.55	0	0	0	0	0	0
7/5/2024 10:20	58401	MORO_T1	0	0	0	0	0	0	-0.42	-0.92	1	2	1	600	1200	600
7/5/2024 10:20	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 10:21	56501	ROCK_T2	0	1	1	0	0.7	0.7	-1.29	-1.2	0	0	0	0	0	0
7/5/2024 10:22	56501	ROCK_T2	0	1	1	0	0.7	0.7	-3.6	-3.57	0	0	0	0	0	0
7/5/2024 10:22	66703	STRA_T1	1	0	-1	0.1	0	-0.1	-0.28	-0.25	0	0	0	0	0	0
7/5/2024 10:22	43304	WATS_T2	1	0	-1	0.4	0	-0.4	-0.1	-0.17	0	0	0	0	0	0
7/5/2024 10:23	67002	STHI_T2	0	0	0	0	0	0	1.23	1.26	0	0	0	0	0	0
7/5/2024 10:24	60201	ATGL_T2	0	0	0	0	0	0	1.12	0.92	0	1	1	0	300	300
7/5/2024 10:24	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/5/2024 10:24	56501	ROCK_T2	0	1	1	0	0.7	0.7	-1.2	-1.19	0	0	0	0	0	0
7/5/2024 10:24	58003	WCAR_T1	1	0	0	0.5	0.5	0	1.19	1.2	0	0	0	0	0	0
7/5/2024 10:24	58001	WCAR_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
7/5/2024 10:25	56802	BENV_T2	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
7/5/2024 10:25	58001	WCAR_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
7/5/2024 10:25	58003	WCAR_T1	1	1	0	0.5	0.5	0	1.19	1.2	0	0	0	0	0	0
7/5/2024 10:26	56802	BENV_T2	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
7/5/2024 10:26	67605	WARW_T1	0	0	0	0	0	0	-0.68	-0.76	0	0	0	0	0	0
7/5/2024 10:26	60201	ATGL_T2	0	0	0	0	0	0	1.12	0.92	0	1	1	0	300	300
7/5/2024 10:27	56501	ROCK_T2	0	1	1	0	0.7	0.7	-1.2	-1.19	0	0	0	0	0	0
7/5/2024 10:28	67605	WARW_T1	0	0	0	0	0	0	-0.68	-0.76	0	0	0	0	0	0
7/5/2024 10:28	56802	BENV_T2	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
7/5/2024 10:30	64203	KINZ_T1	2	2	0	1.35	1	-0.35	0	0	0	0	0	0	0	0
7/5/2024 10:30	64204	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/5/2024 10:30	64202	KINZ_T1	0	0	0	0	0	0	1.49	1.56	0	0	0	0	0	0
7/5/2024 10:31	65001	NEFF_T2	0	0	0	0	0	0	-0.17	-0.15	1	1	0	1200	1200	0
7/5/2024 10:32	64902	MILL_T2	0	0	0	0	0	0	-0.55	-0.49	1	1	0	900	900	0
7/5/2024 10:37	40603	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/5/2024 10:37	40601	PIGR_T1	0	1	1	0	0	0	0.32	0.31	0	0	0	0	0	0
7/5/2024 10:39	20403	ASHF_T2	0	0	0	0	0	0	0.91	0.97	0	0	0	0	0	0
7/5/2024 10:39	20401	ASHF_T2	2	4	2	1	1.15	0.15	0	0	0	0	0	0	0	0
7/5/2024 10:39	20402	ASHF_T2	6	3	-3	0.77	0	-0.77	0	0	0	0	0	0	0	0
7/5/2024 10:40	20402	ASHF_T2	6	3	-3	0.77	0	-0.77	0	0	0	0	0	0	0	0
7/5/2024 10:40	20403	ASHF_T2	0	0	0	0	0	0	0.91	0.97	0	0	0	0	0	0
7/5/2024 10:40	67605	WARW_T1	0	0	0	0	0	0	-0.76	-0.69	0	0	0	0	0	0
7/5/2024 10:40	20401	ASHF_T2	2	4	2	1	1.15	0.15	0	0	0	0	0	0	0	0
7/5/2024 10:42	67605	WARW_T1	0	0	0	0	0	0	-0.76	-0.69	0	0	0	0	0	0
7/5/2024 10:43	20402	ASHF_T2	6	3	-3	0.77	0	-0.77	0	0	0	0	0	0	0	0
7/5/2024 10:43	24105	EHAZ_T1	4	4	0	5.78	5.88	0.1	0	0	0	0	0	0	0	0
7/5/2024 10:43	20601	GRWO_T2	7	8	1	0.31	0.35	0.04	0	0	0	0	0	0	0	0
7/5/2024 10:43	24102	EHAZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/5/2024 10:43	67605	WARW_T1	0	0	0	0	0	0	-0.76	-0.69	0	0	0	0	0	0
7/5/2024 10:43	20403	ASHF_T2	0	0	0	0	0	0	0.91	0.97	0	0	0	0	0	0
7/5/2024 10:43	24104	EHAZ_T1	27	14	-13	0.2	0.17	-0.03	-2.02	-1.98	1	1	0	1200	1200	0
7/5/2024 10:43	20603	GRWO_T2	0	0	0	0	0	0	-0.35	-0.35	1	1	0	900	900	0
7/5/2024 10:43	20401	ASHF_T2	2	4	2	1	1.15	0.15	0	0	0	0	0	0	0	0
7/5/2024 10:43	24101	EHAZ_T1	0	16	16	0	0.41	0.41	0	0	0	0	0	0	0	0
7/5/2024 10:44	56803	BENV_T1	4	5	1	0.48	1	0.52	0	0	0	0	0	0	0	0
7/5/2024 10:44	56801	BENV_T1	3	2	-1	0.57	0.5	-0.07	-0.23	-0.19	1	1	0	600	600	0
7/5/2024 10:48	46801	HEPB_T2	3	3	0	0.9	0.87	-0.03	0.19	0.19	0	0	0	0	0	0
7/5/2024 10:48	52403	GRPA_T2	25	17	-8	0.74	1.3	0.56	-0.05	-0.18	0	0	0	0	0	0
7/5/2024 10:48	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 10:48	52402	GRPA_T2	14	68	54	0.89	0.71	-0.18	0	0	0	0	0	0	0	0
7/5/2024 10:48	46803	HEPB_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/5/2024 10:48	64904	MILL_T1	0	0	0	0	0	0	0.4	0.46	0	0	0	0	0	0
7/5/2024 10:49	65205	PRIN_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
7/5/2024 10:49	64101	REFR_T1	10	10	0	2.19	1.21	-0.98	1.13	0.02	0	0	0	0	0	0
7/5/2024 10:50	64101	REFR_T1	10	10	0	2.19	1.21	-0.98	1.13	0.02	0	0	0	0	0	0
7/5/2024 10:51	64101	REFR_T1	10	10	0	2.19	1.21	-0.98	0.02	-0.05	0	0	0	0	0	0
7/5/2024 10:51	43304	WATS_T2	0	2	2	0	0.7	0.7	-0.29	-0.23	0	0	0	0	0	0
7/5/2024 10:52	43304	WATS_T2	0	2	2	0	0.7	0.7	-0.29	-0.23	0	0	0	0	0	0
7/5/2024 10:52	64101	REFR_T1	10	10	0	2.19	1.21	-0.98	0.02	-0.05	0	0	0	0	0	0
7/5/2024 10:52	55101	WERT_T1	5	8	3	0.3	0	-0.3	-1.66	-1.76	4	4	0	3300	3300	0
7/5/2024 10:53	64101	REFR_T1	10	10	0	2.19	1.21	-0.98	0.01	-0.03	0	0	0	0	0	0
7/5/2024 10:53	61102	BERK_T5	0	0	0	0	0	0	1.41	1.43	2	2	0	600	600	0
7/5/2024 10:54	61102	BERK_T5	0	0	0	0	0	0	1.41	1.43	2	2	0	600	600	0
7/5/2024 10:55	46004	BERW_T2	0	0	0	0	0	0	0.1	0.05	0	0	0	0	0	0
7/5/2024 10:55	61102	BERK_T5	0	0	0	0	0	0	1.41	1.43	2	2	0	600	600	0
7/5/2024 10:56	67801	WLAN_T1	3	7	4	0.17	0	-0.17	0.29	0.31	0	0	0	0	0	0
7/5/2024 10:56	67804	WLAN_T1	5	10	5	0.32	0.53	0.21	0	0	0	0	0	0	0	0
7/5/2024 10:56	62104	ELAN_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/5/2024 10:56	62102	ELAN_T1	1	1	0	0.7	0.6	-0.1	1.55	1.71	0	0	0	0	0	0
7/5/2024 10:56	45802	HEGI_T2	20	45	25	0.8	0.63	-0.17	0.26	0.31	2	2	0	1200	1200	0
7/5/2024 10:57	61102	BERK_T5	0	0	0	0	0	0	1.41	1.43	2	2	0	600	600	0
7/5/2024 10:57	45802	HEGI_T2	20	45	25	0.8	0.63	-0.17	0.26	0.31	2	2	0	1200	1200	0
7/5/2024 10:58	61102	BERK_T5	0	0	0	0	0	0	0.7	0.72	1	1	0	300	300	0
7/5/2024 10:59	44801	EDAN_T2	16	20	4	0.57	0.52	-0.05	0.93	0.9	0	0	0	0	0	0
7/5/2024 11:00	52402	GRPA_T2	42	69	27	0.71	0.65	-0.06	0	0	0	0	0	0	0	0
7/5/2024 11:00	52401	GRPA_T2	0	14	14	0	0.1	0.1	0	0	0	0	0	0	0	0
7/5/2024 11:00	52403	GRPA_T2	16	8	-8	0.68	1.15	0.47	-0.36	-0.34	0	0	0	0	0	0
7/5/2024 11:00	44801	EDAN_T2	13	26	13	0.65	0.51	-0.14	0.93	0.9	0	0	0	0	0	0
7/5/2024 11:02	50501	MECH_T1	0	1	1	0	0.2	0.2	-0.93	-1.04	0	0	0	0	0	0
7/5/2024 11:02	50502	MECH_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
7/5/2024 11:04	60502	NMAN_T2	1	1	0	0.3	0.5	0.2	0.17	0.29	0	0	0	0	0	0
7/5/2024 11:04	60501	NMAN_T2	3	5	2	4.13	3.83	-0.3	0	0	0	0	0	0	0	0
7/5/2024 11:04	60504	NMAN_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
7/5/2024 11:04	40101	HUNT_T2	3	33	30	0.8	0.67	-0.13	-0.31	-0.15	0	0	0	0	0	0
7/5/2024 11:06	24902	WHHA_T1	1	1	0	0.3	0.3	0	0.34	0.33	0	0	0	0	0	0
7/5/2024 11:06	64203	KINZ_T1	2	2	0	1	1.65	0.65	0.36	0.32	3	3	0	2100	2100	0
7/5/2024 11:06	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 11:06	64204	KINZ_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/5/2024 11:06	24901	WHHA_T1	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
7/5/2024 11:06	56501	ROCK_T2	1	3	2	0.8	0.7	-0.1	-1.12	-1.07	0	0	0	0	0	0
7/5/2024 11:07	24902	WHHA_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/5/2024 11:07	24901	WHHA_T1	1	2	1	0.3	0.3	0	0.82	0.81	0	0	0	0	0	0
7/5/2024 11:07	43304	WATS_T2	1	5	4	0.7	0.4	-0.3	-0.23	-0.25	0	0	0	0	0	0
7/5/2024 11:08	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 11:08	67201	TEHI_T1	22	2	-20	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
7/5/2024 11:08	29402	BELT_T1	3	1	-2	2.93	8.2	5.27	0	0	0	0	0	0	0	0
7/5/2024 11:08	67203	TEHI_T1	22	14	-8	0.7	0.53	-0.17	2.19	2.35	3	3	0	2100	2100	0
7/5/2024 11:08	59101	WALK_T2	1	1	0	3.8	3.8	0	0.11	0.04	0	0	0	0	0	0
7/5/2024 11:09	59101	WALK_T2	1	1	0	3.8	3.8	0	0.11	0.04	0	0	0	0	0	0
7/5/2024 11:09	61301	EARL_T1	0	0	0	0	0	0	-1.1	-1.09	2	2	0	1800	1800	0
7/5/2024 11:10	24901	WHHA_T1	1	2	1	0.3	0.3	0	0.82	0.81	0	0	0	0	0	0
7/5/2024 11:10	61301	EARL_T1	0	0	0	0	0	0	-1.1	-1.09	2	2	0	1800	1800	0
7/5/2024 11:10	24902	WHHA_T1	1	1	0	0.3	0.3	0	0.33	0.36	0	0	0	0	0	0
7/5/2024 11:10	59101	WALK_T2	1	1	0	3.8	3.8	0	0.11	0.04	0	0	0	0	0	0
7/5/2024 11:13	61306	EARL_T1	0	0	0	0	0	0	-1.13	-1.12	0	0	0	0	0	0
7/5/2024 11:14	61301	EARL_T1	0	0	0	0	0	0	-1.1	-1.09	2	2	0	1800	1800	0
7/5/2024 11:15	21203	ECAR_T1	0	5	5	0	0	0	-0.11	-0.13	0	0	0	0	0	0
7/5/2024 11:15	21201	ECAR_T1	5	2	-3	0.76	1.05	0.29	0	0	0	0	0	0	0	0
7/5/2024 11:16	40101	HUNT_T2	14	39	25	0.65	0.46	-0.19	-0.15	-0.16	0	0	0	0	0	0
7/5/2024 11:17	40101	HUNT_T2	14	39	25	0.65	0.46	-0.19	-0.15	-0.16	0	0	0	0	0	0
7/5/2024 11:18	63401	HONY_T1	0	0	0	0	0	0	0.58	0.48	0	0	0	0	0	0
7/5/2024 11:18	12801	MICK_T1	0	0	0	0	0	0	-0.44	-0.4	1	1	0	600	600	0
7/5/2024 11:19	59003	MIFF_T1	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
7/5/2024 11:22	43301	WATS_T2	0	0	0	0	0	0	-0.13	-0.14	1	1	0	900	900	0
7/5/2024 11:22	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.72	-0.67	0	0	0	0	0	0
7/5/2024 11:22	43304	WATS_T2	5	3	-2	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
7/5/2024 11:23	16302	ALPA_T2	0	0	0	0	0	0	0.13	0.21	0	0	0	0	0	0
7/5/2024 11:23	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.72	-0.67	0	0	0	0	0	0
7/5/2024 11:25	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.72	-0.67	0	0	0	0	0	0
7/5/2024 11:25	16302	ALPA_T2	0	0	0	0	0	0	0.13	0.21	0	0	0	0	0	0
7/5/2024 11:26	29402	BELT_T1	0	75	75	0	0.64	0.64	0	0	0	0	0	0	0	0
7/5/2024 11:26	16302	ALPA_T2	0	0	0	0	0	0	0.13	0.21	0	0	0	0	0	0
7/5/2024 11:26	22001	BOHE_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
7/5/2024 11:26	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 11:27	44301	BEAV_T2	13	17	4	0.72	0.64	-0.08	0.76	0.75	1	1	0	600	600	0
7/5/2024 11:28	16302	ALPA_T2	0	0	0	0	0	0	0.13	0.21	0	0	0	0	0	0
7/5/2024 11:28	24102	EHAZ_T1	2	4	2	1.25	0.43	-0.82	0	0	0	0	0	0	0	0
7/5/2024 11:28	24103	EHAZ_T1	0	0	0	0	0	0	-0.29	-0.21	0	0	0	0	0	0
7/5/2024 11:28	24101	EHAZ_T1	22	22	0	1.11	1.39	0.28	0	0	0	0	0	0	0	0
7/5/2024 11:28	44801	EDAN_T2	20	34	14	0.46	0.48	0.02	0.94	0.96	0	0	0	0	0	0
7/5/2024 11:28	24105	EHAZ_T1	4	4	0	6.08	6.2	0.12	0	0	0	0	0	0	0	0
7/5/2024 11:28	24104	EHAZ_T1	3	10	7	0.1	0.12	0.02	0	0	0	0	0	0	0	0
7/5/2024 11:29	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.72	-0.67	0	0	0	0	0	0
7/5/2024 11:31	45702	LIND_T2	1	1	0	0.8	0.9	0.1	-0.08	-0.02	0	0	0	0	0	0
7/5/2024 11:31	22904	HARW_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
7/5/2024 11:31	65501	MOJO_T1	0	0	0	0	0	0	-0.44	-0.52	1	1	0	900	900	0
7/5/2024 11:31	22903	HARW_T1	0	9	9	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 11:31	52402	GRPA_T2	56	90	34	0.68	0.6	-0.08	0	0	0	0	0	0	0	0
7/5/2024 11:31	52403	GRPA_T2	7	65	58	0.86	0.72	-0.14	-0.16	-0.06	0	0	0	0	0	0
7/5/2024 11:31	52401	GRPA_T2	14	19	5	0.28	0.32	0.04	0	0	0	0	0	0	0	0
7/5/2024 11:31	61301	EARL_T1	0	0	0	0	0	0	-1.09	-1.08	2	2	0	1800	1800	0
7/5/2024 11:32	52401	GRPA_T2	14	19	5	0.28	0.32	0.04	0	0	0	0	0	0	0	0
7/5/2024 11:32	61301	EARL_T1	0	0	0	0	0	0	-1.09	-1.08	2	2	0	1800	1800	0
7/5/2024 11:32	52402	GRPA_T2	56	90	34	0.68	0.6	-0.08	0	0	0	0	0	0	0	0
7/5/2024 11:32	64701	LITI_T1	6	10	4	0.22	1.36	1.14	0.06	0.01	1	1	0	900	900	0
7/5/2024 11:32	52403	GRPA_T2	7	65	58	0.86	0.72	-0.14	-0.32	-0.11	0	0	0	0	0	0
7/5/2024 11:32	63402	HONY_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/5/2024 11:32	63403	HONY_T2	1	0	-1	0.3	0	-0.3	-0.45	-1.63	1	1	0	600	600	0
7/5/2024 11:33	21901	HUMB_T1	0	0	0	0	0	0	-1.55	-1.51	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/5/2024 11:34	51004	NHAR_T1	1	1	0	7.3	7.4	0.1	0	0	0	0	0	0	0	0
7/5/2024 11:34	43202	MVIL_T2	2	2	0	0.3	0.5	0.2	-0.32	-0.31	0	0	0	0	0	0
7/5/2024 11:34	51003	NHAR_T1	0	0	0	0	0	0	-1.34	-1.37	1	1	0	1200	1200	0
7/5/2024 11:34	41902	REED_T1	23	53	30	0.4	0.46	0.06	0.65	0.69	1	1	0	900	900	0
7/5/2024 11:34	41901	REED_T1	6	7	1	0.13	0.13	0	0	0	0	0	0	0	0	0
7/5/2024 11:35	43202	MVIL_T2	2	2	0	0.3	0.5	0.2	-0.32	-0.31	0	0	0	0	0	0
7/5/2024 11:35	52002	LING_T2	12	0	-12	0.31	0	-0.31	0.93	0.06	0	0	0	0	0	0
7/5/2024 11:35	45702	LIND_T2	1	1	0	0.8	0.9	0.1	-0.08	-0.02	0	0	0	0	0	0
7/5/2024 11:35	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 11:36	43202	MVIL_T2	2	2	0	0.3	0.5	0.2	-0.31	-0.34	0	0	0	0	0	0
7/5/2024 11:39	60201	ATGL_T2	0	0	0	0	0	0	0.82	0.97	1	1	0	300	300	0
7/5/2024 11:40	60803	BUCK_T1	0	0	0	0	0	0	-0.16	-0.13	1	1	0	600	600	0
7/5/2024 11:40	44301	BEAV_T2	15	17	2	0.75	0.54	-0.21	0.75	0.8	1	1	0	600	600	0
7/5/2024 11:41	67603	WARW_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
7/5/2024 11:41	60803	BUCK_T1	0	0	0	0	0	0	-0.16	-0.13	1	1	0	600	600	0
7/5/2024 11:41	58001	WCAR_T1	5	4	-1	0.58	0.33	-0.25	0.62	0.53	0	0	0	0	0	0
7/5/2024 11:41	58003	WCAR_T1	21	11	-10	0.2	0.39	0.19	0.68	0.66	1	1	0	600	600	0
7/5/2024 11:41	67605	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/5/2024 11:41	61102	BERK_T5	0	0	0	0	0	0	0.85	0.82	1	1	0	300	300	0
7/5/2024 11:42	44301	BEAV_T2	15	17	2	0.75	0.54	-0.21	0.75	0.8	1	1	0	600	600	0
7/5/2024 11:42	60803	BUCK_T1	0	0	0	0	0	0	-0.16	-0.13	1	1	0	600	600	0
7/5/2024 11:42	63501	HEID_TBK1-2	0	0	0	0	0	0	0.54	0.57	1	1	0	900	900	0
7/5/2024 11:43	54504	ENOL_T2	0	0	0	0	0	0	-0.51	-1.13	1	1	0	600	600	0
7/5/2024 11:43	46004	BERW_T2	0	1	1	0	0	0	0.29	0.51	0	0	0	0	0	0
7/5/2024 11:43	60803	BUCK_T1	0	0	0	0	0	0	-0.16	-0.13	1	1	0	600	600	0
7/5/2024 11:44	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.67	-0.61	0	0	0	0	0	0
7/5/2024 11:44	54504	ENOL_T2	0	0	0	0	0	0	-0.51	-1.13	1	1	0	600	600	0
7/5/2024 11:45	64302	LINC_T2	24	39	15	1.48	0.33	-1.15	1.85	1.88	0	0	0	0	0	0
7/5/2024 11:45	64304	LINC_T2	6	7	1	1.05	0	-1.05	0	0	0	0	0	0	0	0
7/5/2024 11:45	67605	WARW_T1	1	0	-1	0.2	0	-0.2	-0.67	-0.61	0	0	0	0	0	0
7/5/2024 11:46	67605	WARW_T1	1	0	-1	0.2	0	-0.2	-0.67	-0.61	0	0	0	0	0	0
7/5/2024 11:46	54504	ENOL_T2	0	0	0	0	0	0	-0.51	-1.13	1	1	0	600	600	0
7/5/2024 11:47	65004	NEFF_T2	0	0	0	0	0	0	-0.33	-0.34	1	1	0	600	600	0
7/5/2024 11:50	66703	STRA_T1	0	0	0	0	0	0	-0.25	-0.22	0	0	0	0	0	0
7/5/2024 11:52	65903	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 11:52	24801	VALM_T1	0	0	0	0	0	0	0.15	0.19	0	0	0	0	0	0
7/5/2024 11:52	55103	WERT_T1	1	2	1	0.7	1.1	0.4	0	0	0	0	0	0	0	0
7/5/2024 11:52	24803	VALM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/5/2024 11:52	55101	WERT_T1	4	11	7	0.15	0.51	0.36	-1.61	-1.67	4	4	0	3300	3300	0
7/5/2024 11:52	65901	SAKR_T2	1	1	0	5.1	5.2	0.1	-0.04	-0.01	2	2	0	1500	1500	0
7/5/2024 11:53	24803	VALM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/5/2024 11:53	55405	SHER_T1	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
7/5/2024 11:53	24801	VALM_T1	0	0	0	0	0	0	0.15	0.19	0	0	0	0	0	0
7/5/2024 11:54	55103	WERT_T1	1	2	1	0.7	1.1	0.4	0	0	0	0	0	0	0	0
7/5/2024 11:54	55101	WERT_T1	4	11	7	0.15	0.51	0.36	-1.61	-1.67	4	4	0	3300	3300	0
7/5/2024 11:55	67401	WAKE_T2	0	3	3	0	1.17	1.17	0	0	0	0	0	0	0	0
7/5/2024 11:55	55101	WERT_T1	4	11	7	0.15	0.51	0.36	-1.61	-1.67	4	4	0	3300	3300	0
7/5/2024 11:55	55103	WERT_T1	1	2	1	0.7	1.1	0.4	0	0	0	0	0	0	0	0
7/5/2024 11:55	67402	WAKE_T2	0	11	11	0	0.58	0.58	0.86	0.89	1	1	0	600	600	0
7/5/2024 11:56	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 11:56	46206	DANV_T2	5	7	2	1.06	1.27	0.21	0.78	0.84	2	2	0	2100	2100	0
7/5/2024 11:56	56803	BENV_T1	6	9	3	0.7	1.33	0.63	0	0	0	0	0	0	0	0
7/5/2024 11:56	56802	BENV_T2	0	0	0	0	0	0	-0.57	-0.53	0	0	0	0	0	0
7/5/2024 11:56	56801	BENV_T1	6	4	-2	0.92	0	-0.92	-0.1	-0.1	1	1	0	600	600	0
7/5/2024 11:56	46203	DANV_T2	2	2	0	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
7/5/2024 11:57	46203	DANV_T2	2	2	0	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
7/5/2024 11:57	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 11:57	56803	BENV_T1	6	9	3	0.7	1.33	0.63	0	0	0	0	0	0	0	0
7/5/2024 11:57	56801	BENV_T1	6	4	-2	0.92	0	-0.92	-0.1	-0.1	1	1	0	600	600	0
7/5/2024 11:57	46206	DANV_T2	5	7	2	1.06	1.27	0.21	0.78	0.84	2	2	0	2100	2100	0
7/5/2024 11:58	20601	GRWO_T2	7	68	61	0.49	0.46	-0.03	0.41	0.41	0	0	0	0	0	0
7/5/2024 11:59	46203	DANV_T2	2	2	0	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
7/5/2024 11:59	46206	DANV_T2	5	7	2	1.06	1.27	0.21	0.78	0.84	2	2	0	2100	2100	0
7/5/2024 11:59	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 12:00	56801	BENV_T1	2	2	0	1.15	0	-1.15	-0.1	-0.1	1	1	0	600	600	0
7/5/2024 12:00	56803	BENV_T1	8	9	1	1.35	1.54	0.19	0	0	0	0	0	0	0	0
7/5/2024 12:01	20601	GRWO_T2	58	66	8	0.49	0.39	-0.1	0.41	0.41	0	0	0	0	0	0
7/5/2024 12:01	12701	MACU_T1	1	0	-1	0.7	0	-0.7	-0.73	-0.71	1	1	0	1200	1200	0
7/5/2024 12:02	12701	MACU_T1	1	0	-1	0.7	0	-0.7	-0.73	-0.71	1	1	0	1200	1200	0
7/5/2024 12:02	22602	KIMB_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
7/5/2024 12:03	23401	HONE_T2	7	6	-1	0.36	0.43	0.07	0.07	0.05	0	0	0	0	0	0
7/5/2024 12:05	12701	MACU_T1	1	0	-1	0.7	0	-0.7	-0.73	-0.71	1	1	0	1200	1200	0
7/5/2024 12:05	67605	WARW_T1	0	0	0	0	0	0	-0.61	-0.7	0	0	0	0	0	0
7/5/2024 12:05	64304	LINC_T2	0	7	7	0	1.33	1.33	0	0	0	0	0	0	0	0
7/5/2024 12:05	64302	LINC_T2	30	97	67	0.39	0.79	0.4	1.88	1.74	0	0	0	0	0	0
7/5/2024 12:06	66504	SMAN_T2	7	1	-6	0.67	0.2	-0.47	0	0	0	0	0	0	0	0
7/5/2024 12:06	66505	SMAN_T2	92	46	-46	0.45	0.3	-0.15	0.63	0.66	4	4	0	2300	2300	0
7/5/2024 12:06	67605	WARW_T1	0	0	0	0	0	0	-0.61	-0.7	0	0	0	0	0	0
7/5/2024 12:07	58003	WCAR_T1	7	3	-4	0.44	0.73	0.29	0.67	0.69	1	1	0	600	600	0
7/5/2024 12:07	58001	WCAR_T1	3	1	-2	0.33	0.4	0.07	0	0	0	0	0	0	0	0
7/5/2024 12:10	61101	BERK_T5	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
7/5/2024 12:11	59101	WALK_T2	1	1	0	3.8	4	0.2	0.1	0.1	0	0	0	0	0	0
7/5/2024 12:12	61101	BERK_T5	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
7/5/2024 12:13	11102	EGYP_T1	3	3	0	1.87	1.17	-0.7	0	0	0	0	0	0	0	0
7/5/2024 12:13	11101	EGYP_T1	4	5	1	1.75	1.2	-0.55	0	0	0	0	0	0	0	0
7/5/2024 12:13	11104	EGYP_T1	9	9	0	1.24	1.6	0.36	0.93	0.9	0	0	0	0	0	0
7/5/2024 12:14	63803	HEMP_T1	1	1	0	0.4	0.3	-0.1	0.71	0.72	0	0	0	0	0	0
7/5/2024 12:14	11104	EGYP_T1	9	9	0	1.24	1.6	0.36	0.93	0.9	0	0	0	0	0	0
7/5/2024 12:14	63804	HEMP_T1	1	1	0	6.9	7	0.1	0	0	0	0	0	0	0	0
7/5/2024 12:14	11102	EGYP_T1	3	3	0	1.87	1.17	-0.7	0	0	0	0	0	0	0	0
7/5/2024 12:14	11101	EGYP_T1	4	5	1	1.75	1.2	-0.55	0	0	0	0	0	0	0	0
7/5/2024 12:14	63801	HEMP_T1	3	1	-2	0.13	0.4	0.27	0	0	0	0	0	0	0	0
7/5/2024 12:15	47001	HUGH_T2	4	3	-1	4.45	7.27	2.82	-0.09	-0.02	0	0	0	0	0	0
7/5/2024 12:15	63803	HEMP_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/5/2024 12:15	63804	HEMP_T1	1	1	0	7	7.3	0.3	0.39	0.39	0	0	0	0	0	0
7/5/2024 12:15	63801	HEMP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/5/2024 12:16	25503	MADI_T1	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
7/5/2024 12:16	12304	LANA_T2	12	28	16	0.58	0.43	-0.15	0	0	0	0	0	0	0	0
7/5/2024 12:16	12305	LANA_T2	0	8	8	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 12:16	12301	LANA_T2	0	1	1	0	0	0	-0.78	-0.95	1	1	0	1200	1200	0
7/5/2024 12:17	64802	MONE_T2	2	1	-1	0.25	0.2	-0.05	0.43	0.44	0	0	0	0	0	0
7/5/2024 12:18	47001	HUGH_T2	4	3	-1	4.45	7.27	2.82	-0.09	-0.02	0	0	0	0	0	0
7/5/2024 12:18	52401	GRPA_T2	24	15	-9	0.39	0.33	-0.06	0	0	0	0	0	0	0	0
7/5/2024 12:18	52402	GRPA_T2	14	48	34	0.57	0.59	0.02	0	0	0	0	0	0	0	0
7/5/2024 12:18	52403	GRPA_T2	23	64	41	0.71	0.73	0.02	-0.26	-0.26	0	0	0	0	0	0
7/5/2024 12:19	64801	MONE_T2	0	0	0	0	0	0	0.22	0.12	0	0	0	0	0	0
7/5/2024 12:19	64802	MONE_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/5/2024 12:20	67201	TEHI_T1	0	1	1	0	0.2	0.2	0.09	0.07	1	1	0	600	600	0
7/5/2024 12:20	64802	MONE_T2	2	1	-1	0.25	0.2	-0.05	0.43	0.44	0	0	0	0	0	0
7/5/2024 12:20	67203	TEHI_T1	2	2	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
7/5/2024 12:22	43304	WATS_T2	5	7	2	0.24	0	-0.24	-0.75	-0.43	1	1	0	600	600	0
7/5/2024 12:23	20401	ASHF_T2	4	4	0	0.78	0.98	0.2	0	0	0	0	0	0	0	0
7/5/2024 12:23	20403	ASHF_T2	0	0	0	0	0	0	1.06	1.1	0	0	0	0	0	0
7/5/2024 12:23	20402	ASHF_T2	13	17	4	0.71	0.45	-0.26	0	0	0	0	0	0	0	0
7/5/2024 12:26	44301	BEAV_T2	2	10	8	0.95	1.07	0.12	0.35	0.75	1	1	0	600	600	0
7/5/2024 12:26	61102	BERK_T5	0	0	0	0	0	0	0.87	0.91	1	1	0	300	300	0
7/5/2024 12:26	20403	ASHF_T2	0	0	0	0	0	0	1.06	1.1	0	0	0	0	0	0
7/5/2024 12:26	20402	ASHF_T2	13	17	4	0.71	0.45	-0.26	0	0	0	0	0	0	0	0
7/5/2024 12:26	20401	ASHF_T2	4	4	0	0.78	0.98	0.2	0.53	0.57	0	0	0	0	0	0
7/5/2024 12:27	60101	COCA_T1	0	0	0	0	0	0	-0.17	-0.17	1	1	0	1200	1200	0
7/5/2024 12:27	61703	ELIZ_T1	0	0	0	0	0	0	-2.18	-2.22	2	2	0	2100	2100	0
7/5/2024 12:27	61701	ELIZ_T1	1	2	1	1.4	0.7	-0.7	0	0	0	0	0	0	0	0
7/5/2024 12:27	45801	HEGI_T1	0	0	0	0	0	0	-0.07	0.05	1	1	0	900	900	0
7/5/2024 12:28	61701	ELIZ_T1	1	2	1	1.4	0.7	-0.7	0	0	0	0	0	0	0	0
7/5/2024 12:28	29402	BELT_T1	94	116	22	1.05	1.13	0.08	0	0	0	0	0	0	0	0
7/5/2024 12:28	61703	ELIZ_T1	0	0	0	0	0	0	-2.18	-2.22	2	2	0	2100	2100	0
7/5/2024 12:30	61701	ELIZ_T1	2	1	-1	0.7	0.7	0	0	0	0	0	0	0	0	0
7/5/2024 12:30	11804	FRAN_T1	214	247	33	0.9	1.5	0.6	1.74	1.26	0	0	0	0	0	0
7/5/2024 12:30	61703	ELIZ_T1	0	0	0	0	0	0	-6.55	-6.67	6	6	0	6300	6300	0
7/5/2024 12:30	54505	ENOL_T2	0	0	0	0	0	0	-0.53	-0.48	1	1	0	600	600	0
7/5/2024 12:30	11802	FRAN_T1	1	12	11	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
7/5/2024 12:30	11805	FRAN_T1	4	4	0	0.25	0.58	0.33	0	0	0	0	0	0	0	0
7/5/2024 12:32	52401	GRPA_T2	13	29	16	0.28	0.47	0.19	-0.23	-0.25	0	0	0	0	0	0
7/5/2024 12:32	52403	GRPA_T2	34	68	34	0.73	1.01	0.28	0	0	0	0	0	0	0	0
7/5/2024 12:32	52402	GRPA_T2	46	36	-10	0.62	0.88	0.26	0	0	0	0	0	0	0	0
7/5/2024 12:32	23403	HONE_T1	2	2	0	0.4	0	-0.4	0.24	0.22	0	0	0	0	0	0
7/5/2024 12:33	57303	MOAL_T2	1	1	0	7.7	7.9	0.2	0	0	0	0	0	0	0	0
7/5/2024 12:33	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 12:33	13503	MCMI_T2	14	3	-11	0.23	0.5	0.27	-0.62	-0.62	0	0	0	0	0	0
7/5/2024 12:33	57302	MOAL_T2	0	0	0	0	0	0	-0.6	-0.65	1	1	0	1200	1200	0
7/5/2024 12:33	57304	MOAL_T2	1	3	2	2	0.7	-1.3	0	0	0	0	0	0	0	0
7/5/2024 12:35	64101	REFR_T1	11	17	6	2.5	2.38	-0.12	0.15	0.27	0	0	0	0	0	0
7/5/2024 12:35	60301	TWVA_T2	4	6	2	1	0.6	-0.4	-1.95	-1.93	2	2	0	1800	1800	0
7/5/2024 12:35	56504	ROCK_T2	4	2	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/5/2024 12:35	56501	ROCK_T2	3	2	-1	2.57	5.05	2.48	-2.15	-2.16	0	0	0	0	0	0
7/5/2024 12:35	13503	MCMI_T2	14	3	-11	0.23	0.5	0.27	-0.62	-0.62	0	0	0	0	0	0
7/5/2024 12:36	64101	REFR_T1	11	17	6	2.5	2.38	-0.12	0.27	0.26	0	0	0	0	0	0
7/5/2024 12:36	13503	MCMI_T2	14	3	-11	0.23	0.5	0.27	-0.62	-0.62	0	0	0	0	0	0
7/5/2024 12:37	67801	WLAN_T1	19	43	24	0.2	0.53	0.33	0	0	0	0	0	0	0	0
7/5/2024 12:37	43304	WATS_T2	7	3	-4	0.24	0	-0.24	-0.86	-0.74	2	2	0	1200	1200	0
7/5/2024 12:37	67804	WLAN_T1	10	10	0	1.91	1.35	-0.56	-0.65	-0.63	0	0	0	0	0	0
7/5/2024 12:38	20401	ASHF_T2	4	5	1	0.98	1.03	0.05	0	0	0	0	0	0	0	0
7/5/2024 12:38	20402	ASHF_T2	17	10	-7	0.46	0.2	-0.26	0	0	0	0	0	0	0	0
7/5/2024 12:38	20403	ASHF_T2	0	0	0	0	0	0	1.1	1.19	0	0	0	0	0	0
7/5/2024 12:39	29402	BELT_T1	88	127	39	1.11	0.88	-0.23	0	0	0	0	0	0	0	0
7/5/2024 12:39	67602	WARW_T2	1	2	1	0.4	0	-0.4	0.95	1.15	4	4	0	3000	3000	0
7/5/2024 12:39	10705	CATA_T2	0	0	0	0	0	0	-1.13	-1.05	1	1	0	900	900	0
7/5/2024 12:39	66504	SMAN_T2	1	5	4	0.2	0.45	0.25	0	0	0	0	0	0	0	0
7/5/2024 12:39	66505	SMAN_T2	31	281	250	0.33	0.44	0.11	0.78	0.85	4	4	0	2300	2300	0
7/5/2024 12:39	43304	WATS_T2	7	3	-4	0.24	0	-0.24	-0.43	-0.37	1	1	0	600	600	0
7/5/2024 12:40	21206	ECAR_T2	14	37	23	1.09	1.24	0.15	0.42	0.46	0	0	0	0	0	0
7/5/2024 12:40	21204	ECAR_T2	1	3	2	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 12:41	20402	ASHF_T2	17	10	-7	0.46	0.2	-0.26	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/5/2024 12:41	56802	BENV_T2	0	0	0	0	0	0	-0.57	-0.68	0	0	0	0	0	0
7/5/2024 12:41	20403	ASHF_T2	0	0	0	0	0	0	1.1	1.19	0	0	0	0	0	0
7/5/2024 12:41	25603	ARRO_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
7/5/2024 12:41	20401	ASHF_T2	4	5	1	0.98	1.03	0.05	0	0	0	0	0	0	0	0
7/5/2024 12:41	67602	WARW_T2	1	2	1	0.4	0	-0.4	0.48	0.58	2	2	0	1500	1500	0
7/5/2024 12:41	25602	ARRO_T1	1	0	-1	2.2	0	-2.2	0	0	0	0	0	0	0	0
7/5/2024 12:42	67602	WARW_T2	1	2	1	0.4	0	-0.4	0.48	0.58	2	2	0	1500	1500	0
7/5/2024 12:43	45801	HEGI_T1	0	1	1	0	0	0	0.05	0.03	1	1	0	900	900	0
7/5/2024 12:43	24105	EHAZ_T1	4	4	0	6.1	6.1	0	0	0	0	0	0	0	0	0
7/5/2024 12:43	25602	ARRO_T1	1	0	-1	2.2	0	-2.2	0	0	0	0	0	0	0	0
7/5/2024 12:43	24102	EHAZ_T1	1	1	0	0.6	0.2	-0.4	0.12	0.13	0	0	0	0	0	0
7/5/2024 12:43	41902	REED_T1	35	35	0	0.36	0.35	-0.01	0.69	0.69	1	1	0	900	900	0
7/5/2024 12:43	24104	EHAZ_T1	33	13	-20	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/5/2024 12:43	25603	ARRO_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
7/5/2024 12:43	24101	EHAZ_T1	10	23	13	0.15	0.79	0.64	0	0	0	0	0	0	0	0
7/5/2024 12:43	41901	REED_T1	3	5	2	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
7/5/2024 12:44	21206	ECAR_T2	14	37	23	1.09	1.24	0.15	0.42	0.46	0	0	0	0	0	0
7/5/2024 12:44	61501	EPET_T2	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
7/5/2024 12:44	21204	ECAR_T2	1	3	2	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 12:44	61506	EPET_T2	0	0	0	0	0	0	-1.09	-1.01	2	2	0	1800	1800	0
7/5/2024 12:45	56803	BENV_T1	10	10	0	1.8	1.5	-0.3	0.26	0.12	2	2	0	1200	1200	0
7/5/2024 12:45	20601	GRWO_T2	59	76	17	0.49	0.66	0.17	0.42	0.52	0	0	0	0	0	0
7/5/2024 12:45	56801	BENV_T1	1	5	4	0.2	0.68	0.48	0	0	0	0	0	0	0	0
7/5/2024 12:46	61703	ELIZ_T1	0	0	0	0	0	0	-2.22	-2.23	2	2	0	2100	2100	0
7/5/2024 12:46	40903	JESH_T1	1	7	6	0.1	0.8	0.7	0	0	0	0	0	0	0	0
7/5/2024 12:46	40901	JESH_T1	3	4	1	1.27	1.37	0.1	0	0	0	0	0	0	0	0
7/5/2024 12:46	40902	JESH_T1	0	0	0	0	0	0	-1.17	-1.18	2	2	0	1200	1200	0
7/5/2024 12:46	61701	ELIZ_T1	1	0	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
7/5/2024 12:48	40902	JESH_T1	0	0	0	0	0	0	-1.17	-1.18	2	2	0	1200	1200	0
7/5/2024 12:48	52001	LING_T1	0	0	0	0	0	0	1.12	1.11	0	0	0	0	0	0
7/5/2024 12:48	40903	JESH_T1	1	7	6	0.1	0.8	0.7	0	0	0	0	0	0	0	0
7/5/2024 12:48	40901	JESH_T1	3	4	1	1.27	1.37	0.1	0	0	0	0	0	0	0	0
7/5/2024 12:48	67605	WARW_T1	1	0	-1	0.2	0	-0.2	-0.64	-0.63	0	0	0	0	0	0
7/5/2024 12:49	12702	MACU_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 12:49	47401	PENS_T1	14	6	-8	0.44	0.42	-0.02	0.23	0.22	0	0	0	0	0	0
7/5/2024 12:49	12703	MACU_T2	0	0	0	0	0	0	-0.45	-0.49	0	0	0	0	0	0
7/5/2024 12:49	67605	WARW_T1	1	0	-1	0.2	0	-0.2	-0.64	-0.63	0	0	0	0	0	0
7/5/2024 12:50	52001	LING_T1	0	0	0	0	0	0	1.12	1.11	0	0	0	0	0	0
7/5/2024 12:50	47401	PENS_T1	14	6	-8	0.44	0.42	-0.02	0.23	0.22	0	0	0	0	0	0
7/5/2024 12:50	44202	POIN_T2	0	0	0	0	0	0	-0.68	-0.78	2	2	0	1800	1800	0
7/5/2024 12:50	44203	POIN_T2	9	19	10	3.43	3.55	0.12	0	0	0	0	0	0	0	0
7/5/2024 12:52	40602	PIGR_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/5/2024 12:52	40603	PIGR_T1	40	29	-11	0.62	0.43	-0.19	0.83	0.83	0	0	0	0	0	0
7/5/2024 12:54	20401	ASHF_T2	4	5	1	1.03	0.65	-0.38	0	0	0	0	0	0	0	0
7/5/2024 12:54	20402	ASHF_T2	10	3	-7	0.48	0.2	-0.28	0	0	0	0	0	0	0	0
7/5/2024 12:54	20403	ASHF_T2	0	3	3	0	0	0	1.19	1.28	0	0	0	0	0	0
7/5/2024 12:55	45602	WOOL_T1	43	56	13	0.61	0.88	0.27	1.4	1.4	0	0	0	0	0	0
7/5/2024 12:56	20402	ASHF_T2	10	3	-7	0.48	0.2	-0.28	0	0	0	0	0	0	0	0
7/5/2024 12:56	20403	ASHF_T2	0	3	3	0	0	0	1.19	1.28	0	0	0	0	0	0
7/5/2024 12:56	20401	ASHF_T2	4	5	1	1.03	0.65	-0.38	0	0	0	0	0	0	0	0
7/5/2024 12:58	67602	WARW_T2	0	4	4	0	0.3	0.3	0.58	0.46	2	2	0	1500	1500	0
7/5/2024 12:58	25603	ARRO_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
7/5/2024 12:58	61701	ELIZ_T1	1	1	0	0.7	0.5	-0.2	1.48	1.59	0	0	0	0	0	0
7/5/2024 12:59	61703	ELIZ_T1	0	0	0	0	0	0	-2.23	-2.22	2	2	0	2100	2100	0
7/5/2024 12:59	61701	ELIZ_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
7/5/2024 12:59	45602	WOOL_T1	43	56	13	0.61	0.88	0.27	0.7	0.7	0	0	0	0	0	0
7/5/2024 12:59	67602	WARW_T2	0	4	4	0	0.3	0.3	1.15	0.93	4	4	0	3000	3000	0
7/5/2024 13:00	63804	HEMP_T1	1	1	0	7.3	7.4	0.1	0	0	0	0	0	0	0	0
7/5/2024 13:00	63801	HEMP_T1	0	1	1	0	0.1	0.1	-0.33	-0.32	1	1	0	900	900	0
7/5/2024 13:00	63803	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/5/2024 13:00	61701	ELIZ_T1	1	1	0	0.5	0.2	-0.3	2.96	3.19	0	0	0	0	0	0
7/5/2024 13:03	47103	MARL_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
7/5/2024 13:04	47101	MARL_T1	57	84	27	0.8	0.77	-0.03	-1.32	-1.23	2	2	0	1200	1200	0
7/5/2024 13:04	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 13:04	47104	MARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/5/2024 13:04	47401	PENS_T1	6	7	1	0.47	0.6	0.13	0.22	0.18	0	0	0	0	0	0
7/5/2024 13:05	66505	SMAN_T2	280	319	39	0.77	0.67	-0.1	0	0	0	0	0	0	0	0
7/5/2024 13:05	66504	SMAN_T2	5	7	2	0.38	0.38	0	-0.1	-0.12	0	0	0	0	0	0
7/5/2024 13:05	51004	NHAR_T1	1	1	0	7.4	7.2	-0.2	-0.98	-0.99	0	0	0	0	0	0
7/5/2024 13:06	24902	WHHA_T1	6	8	2	0.78	0.66	-0.12	0.5	0.45	0	0	0	0	0	0
7/5/2024 13:06	24901	WHHA_T1	1	1	0	1.6	1.3	-0.3	0	0	0	0	0	0	0	0
7/5/2024 13:07	51004	NHAR_T1	1	1	0	7.4	7.2	-0.2	-0.99	-0.95	0	0	0	0	0	0
7/5/2024 13:09	66504	SMAN_T2	5	7	2	0.38	0.38	0	0	0	0	0	0	0	0	0
7/5/2024 13:09	66505	SMAN_T2	280	319	39	0.77	0.67	-0.1	0.71	0.71	4	4	0	2300	2300	0
7/5/2024 13:10	66504	SMAN_T2	5	7	2	0.38	0.38	0	-0.12	-0.04	0	0	0	0	0	0
7/5/2024 13:10	66505	SMAN_T2	280	319	39	0.77	0.67	-0.1	0	0	0	0	0	0	0	0
7/5/2024 13:10	57104	SPHI_T2	0	0	0	0	0	0	-0.59	-0.6	1	1	0	900	900	0
7/5/2024 13:10	67605	WARW_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
7/5/2024 13:10	61504	EPET_T2	0	0	0	0	0	0	0.76	0.77	0	0	0	0	0	0
7/5/2024 13:10	61501	EPET_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
7/5/2024 13:11	56801	BENV_T1	4	6	2	0.93	0.94	0.01	-0.05	-0.08	1	1	0	600	600	0
7/5/2024 13:11	56803	BENV_T1	10	10	0	1.61	1.71	0.1	0	0	0	0	0	0	0	0
7/5/2024 13:11	60902	DONG_T2	2	2	0	0.5	0.45	-0.05	0.72	0.78	0	0	0	0	0	0
7/5/2024 13:11	60901	DONG_T2	51	57	6	0.82	0.87	0.05	0	0	0	0	0	0	0	0
7/5/2024 13:11	60903	DONG_T2	4	1	-3	0.38	0.1	-0.28	0	0	0	0	0	0	0	0
7/5/2024 13:11	67605	WARW_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
7/5/2024 13:12	61702	ELIZ_T2	1	1	0	0.2	0	-0.2	-0.94	-0.95	2	2	0	1500	1500	0
7/5/2024 13:12	61704	ELIZ_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/5/2024 13:13	20401	ASHF_T2	5	5	0	1.64	0.65	-0.99	0	0	0	0	0	0	0	0
7/5/2024 13:13	20402	ASHF_T2	1	7	6	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/5/2024 13:13	20403	ASHF_T2	0	3	3	0	0.17	0.17	1.28	1.43	0	0	0	0	0	0
7/5/2024 13:15	56802	BENV_T2	0	2	2	0	0.4	0.4	-0.67	-0.68	0	0	0	0	0	0
7/5/2024 13:16	28805	LAKE_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
7/5/2024 13:17	58401	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 13:17	63404	HONY_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/5/2024 13:17	58402	MORO_T1	2	1	-1	0.35	0	-0.35	-0.95	-0.84	5	5	0	3150	3150	0
7/5/2024 13:17	63401	HONY_T1	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
7/5/2024 13:20	13105	NHAM_T2	39	78	39	0.68	0.66	-0.02	0	0	0	0	0	0	0	0
7/5/2024 13:20	13103	NHAM_T2	0	6	6	0	0.38	0.38	-1.07	-1	1	1	0	600	600	0
7/5/2024 13:20	60501	NMAN_T2	3	3	0	3.37	3.4	0.03	0	0	0	0	0	0	0	0
7/5/2024 13:20	60502	NMAN_T2	4	3	-1	0.13	0.1	-0.03	-0.37	-0.35	0	0	0	0	0	0
7/5/2024 13:21	65903	SAKR_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/5/2024 13:21	65901	SAKR_T2	1	4	3	5.2	2.35	-2.85	0.13	0.01	2	2	0	1500	1500	0
7/5/2024 13:21	13105	NHAM_T2	39	78	39	0.68	0.66	-0.02	-0.7	-0.68	1	1	0	1200	1200	0
7/5/2024 13:21	13103	NHAM_T2	0	6	6	0	0.38	0.38	0	0	0	0	0	0	0	0
7/5/2024 13:22	57401	SPAN_T1	36	135	99	0.51	0.44	-0.07	0	0	0	0	0	0	0	0
7/5/2024 13:22	65903	SAKR_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/5/2024 13:22	55408	SHER_T2	2	2	0	0.75	0.65	-0.1	-0.28	-0.31	1	1	0	1200	1200	0
7/5/2024 13:22	57403	SPAN_T1	2	9	7	0.45	0.38	-0.07	0.7	0.68	0	0	0	0	0	0
7/5/2024 13:22	65901	SAKR_T2	1	4	3	5.2	2.35	-2.85	0.13	0.01	2	2	0	1500	1500	0
7/5/2024 13:23	14801	TREI_T2	192	200	8	1.7	1.73	0.03	0	0	0	0	0	0	0	0
7/5/2024 13:23	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 13:24	14801	TREI_T2	192	200	8	1.7	1.73	0.03	0	0	0	0	0	0	0	0
7/5/2024 13:24	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 13:25	14801	TREI_T2	192	200	8	1.7	1.73	0.03	0	0	0	0	0	0	0	0
7/5/2024 13:25	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 13:26	61701	ELIZ_T1	1	5	4	0.2	0.45	0.25	1.58	1.65	0	0	0	0	0	0
7/5/2024 13:26	14102	TRUM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 13:26	14103	TRUM_T2	12	63	51	0.49	0.47	-0.02	0	0	0	0	0	0	0	0
7/5/2024 13:26	14101	TRUM_T2	0	0	0	0	0	0	0.55	0.59	0	0	0	0	0	0
7/5/2024 13:30	28102	TWLA_T2	1	4	3	0.4	0.27	-0.13	0.41	0.44	0	0	0	0	0	0
7/5/2024 13:31	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.63	-0.58	0	0	0	0	0	0
7/5/2024 13:31	12701	MACU_T1	1	7	6	0.5	0.56	0.06	-0.61	-0.61	1	1	0	1200	1200	0
7/5/2024 13:31	23401	HONE_T2	18	27	9	0.75	0.41	-0.34	0.09	0.21	0	0	0	0	0	0
7/5/2024 13:31	12704	MACU_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/5/2024 13:32	61701	ELIZ_T1	1	6	5	0.2	0.45	0.25	1.58	1.65	0	0	0	0	0	0
7/5/2024 13:32	20601	GRWO_T2	63	137	74	0.58	0.91	0.33	0.48	0.54	0	0	0	0	0	0
7/5/2024 13:32	53802	MBRG_T2	0	0	0	0	0	0	1.09	1.01	0	0	0	0	0	0
7/5/2024 13:32	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.63	-0.58	0	0	0	0	0	0
7/5/2024 13:33	12701	MACU_T1	1	7	6	0.5	0.56	0.06	-0.61	-0.61	1	1	0	1200	1200	0
7/5/2024 13:33	63804	HEMP_T1	1	1	0	7.6	7.6	0	0	0	0	0	0	0	0	0
7/5/2024 13:33	63803	HEMP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/5/2024 13:33	12704	MACU_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/5/2024 13:33	63802	HEMP_T1	0	0	0	0	0	0	0.87	0.89	0	0	0	0	0	0
7/5/2024 13:34	64101	REFR_T1	29	39	10	1.72	1.95	0.23	0.25	0.21	0	0	0	0	0	0
7/5/2024 13:35	66703	STRA_T1	3	6	3	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
7/5/2024 13:35	66703	STRA_T1	11	30	19	0.43	0.47	0.04	-0.06	0.01	0	0	0	0	0	0
7/5/2024 13:35	64101	REFR_T1	29	39	10	1.72	1.95	0.23	0.25	0.21	0	0	0	0	0	0
7/5/2024 13:36	13903	SEID_T1	16	23	7	0.81	0.84	0.03	0	0	0	0	0	0	0	0
7/5/2024 13:36	13904	SEID_T1	10	15	5	0.81	0.84	0.03	-1	-0.96	0	0	0	0	0	0
7/5/2024 13:36	13902	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 13:37	13904	SEID_T1	10	15	5	0.81	0.84	0.03	-0.5	-0.48	0	0	0	0	0	0
7/5/2024 13:37	13902	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 13:37	13903	SEID_T1	16	23	7	0.81	0.84	0.03	0	0	0	0	0	0	0	0
7/5/2024 13:38	64101	REFR_T1	29	39	10	1.72	1.95	0.23	0.21	0.21	0	0	0	0	0	0
7/5/2024 13:39	66505	SMAN_T2	319	208	-111	0.93	0.58	-0.35	0	0	0	0	0	0	0	0
7/5/2024 13:39	66504	SMAN_T2	7	12	5	0.36	0.5	0.14	0.07	0.04	0	0	0	0	0	0
7/5/2024 13:39	66503	SMAN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 13:40	60201	ATGL_T2	1	2	1	0.1	0.25	0.15	0.7	0.83	2	2	0	900	900	0
7/5/2024 13:44	61701	ELIZ_T1	1	6	5	0.2	0.45	0.25	1.65	1.54	0	0	0	0	0	0
7/5/2024 13:44	53903	HALI_T2	2	2	0	0.45	0.25	-0.2	0.12	0.09	0	0	0	0	0	0
7/5/2024 13:44	14204	EALL_T2	3	2	-1	0.33	0	-0.33	0.01	0	0	0	0	0	0	0
7/5/2024 13:44	53901	HALI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 13:44	53902	HALI_T2	1	1	0	4.1	4.6	0.5	0	0	0	0	0	0	0	0
7/5/2024 13:46	53903	HALI_T2	2	1	-1	0.25	0.2	-0.05	0.12	0.09	0	0	0	0	0	0
7/5/2024 13:46	53901	HALI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/5/2024 13:46	63401	HONY_T1	0	0	0	0	0	0	0.47	0.1	0	1	1	0	600	600
7/5/2024 13:46	63404	HONY_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/5/2024 13:46	53902	HALI_T2	1	1	0	4.6	4.2	-0.4	0	0	0	0	0	0	0	0
7/5/2024 13:50	16406	MOPO_T1	0	0	0	0	0	0	0.18	0.25	1	1	0	1200	1200	0
7/5/2024 13:51	64101	REFR_T1	38	29	-9	1.56	2.3	0.74	0.21	-0.05	0	0	0	0	0	0
7/5/2024 13:51	47403	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/5/2024 13:51	47401	PENS_T1	5	10	5	1.02	0.75	-0.27	0.25	0.26	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/5/2024 13:51	47402	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/5/2024 13:52	66701	STRA_T1	6	9	3	0.28	0.82	0.54	1.06	1.06	1	1	0	600	600	0
7/5/2024 13:52	65803	RTWN_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/5/2024 13:52	66703	STRA_T1	28	61	33	0.56	0.59	0.03	0	0	0	0	0	0	0	0
7/5/2024 13:52	65802	RTWN_T2	0	0	0	0	0	0	0.96	0.89	0	0	0	0	0	0
7/5/2024 13:52	44203	POIN_T2	17	22	5	2.59	2.89	0.3	-0.06	-0.13	2	2	0	2100	2100	0
7/5/2024 13:53	67605	WARW_T1	1	1	0	0.1	0.2	0.1	-0.58	-0.58	0	0	0	0	0	0
7/5/2024 13:54	60201	ATGL_T2	2	2	0	0.25	0.45	0.2	0.83	0.74	2	2	0	900	900	0
7/5/2024 13:54	67605	WARW_T1	1	1	0	0.1	0.2	0.1	-0.58	-0.58	0	0	0	0	0	0
7/5/2024 13:54	20401	ASHF_T2	5	6	1	0.7	0.85	0.15	0	0	0	0	0	0	0	0
7/5/2024 13:54	20403	ASHF_T2	5	26	21	0.96	0.48	-0.48	1.4	1.34	0	0	0	0	0	0
7/5/2024 13:54	20402	ASHF_T2	6	17	11	1.38	0.39	-0.99	0	0	0	0	0	0	0	0
7/5/2024 13:57	41602	CLEV_T1	50	49	-1	0.44	0.29	-0.15	0	0	0	0	0	0	0	0
7/5/2024 13:57	20401	ASHF_T2	5	6	1	0.7	0.85	0.15	0	0	0	0	0	0	0	0
7/5/2024 13:57	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/5/2024 13:57	60201	ATGL_T2	2	2	0	0.25	0.45	0.2	0.83	0.74	2	2	0	900	900	0
7/5/2024 13:57	20403	ASHF_T2	5	26	21	0.96	0.48	-0.48	1.4	1.34	0	0	0	0	0	0
7/5/2024 13:57	20402	ASHF_T2	6	17	11	1.38	0.39	-0.99	0	0	0	0	0	0	0	0
7/5/2024 13:58	61701	ELIZ_T1	5	3	-2	0.24	0.2	-0.04	1.54	1.64	0	0	0	0	0	0
7/5/2024 13:58	45602	WOOL_T1	70	62	-8	0.84	0.66	-0.18	0.79	0.81	0	0	0	0	0	0
7/5/2024 14:00	64701	LITI_T1	13	14	1	1.81	2.36	0.55	0	0	0	0	0	0	0	0
7/5/2024 14:00	64704	LITI_T1	0	0	0	0	0	0	0.53	0.55	1	1	0	600	600	0
7/5/2024 14:01	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 14:01	64203	KINZ_T1	14	7	-7	0.84	0.8	-0.04	0	0	0	0	0	0	0	0
7/5/2024 14:01	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	1.17	1.16	0	0	0	0	0	0
7/5/2024 14:01	64204	KINZ_T1	3	5	2	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
7/5/2024 14:03	65501	MOJO_T1	0	0	0	0	0	0	-0.5	-0.46	1	1	0	900	900	0
7/5/2024 14:05	42201	SHEN_T2	0	0	0	0	0	0	0.34	0.37	1	1	0	600	600	0
7/5/2024 14:06	61402	SLIT_T1	2	1	-1	1.15	1.4	0.25	0	0	0	0	0	0	0	0
7/5/2024 14:06	60502	NMAN_T2	1	3	2	0.1	0.1	0	-0.32	-0.33	0	0	0	0	0	0
7/5/2024 14:06	66701	STRA_T1	5	9	4	0.82	1.03	0.21	0	0	0	0	0	0	0	0
7/5/2024 14:06	51401	LYKE_T1	0	1	1	0	8.6	8.6	0.55	0.56	0	0	0	0	0	0
7/5/2024 14:06	60501	NMAN_T2	3	3	0	3.2	3.73	0.53	0	0	0	0	0	0	0	0
7/5/2024 14:06	66703	STRA_T1	29	68	39	0.59	0.61	0.02	0.19	0.24	0	0	0	0	0	0
7/5/2024 14:06	61404	SLIT_T1	0	0	0	0	0	0	-0.01	-0.09	0	0	0	0	0	0
7/5/2024 14:08	44203	POIN_T2	15	34	19	2.89	2.27	-0.62	-0.13	0.03	2	2	0	2100	2100	0
7/5/2024 14:09	24901	WHHA_T1	1	1	0	1	0.3	-0.7	0.95	0.93	0	0	0	0	0	0
7/5/2024 14:09	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.36	1	1	0	600	600	0
7/5/2024 14:09	24902	WHHA_T1	13	14	1	0.65	0.59	-0.06	0	0	0	0	0	0	0	0
7/5/2024 14:10	20403	ASHF_T2	15	28	13	0.79	0.31	-0.48	1.34	1.34	0	0	0	0	0	0
7/5/2024 14:10	20402	ASHF_T2	11	22	11	0.43	0.97	0.54	0	0	0	0	0	0	0	0
7/5/2024 14:10	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.36	1	1	0	600	600	0
7/5/2024 14:10	51401	LYKE_T1	0	1	1	0	8.6	8.6	0.56	0.56	0	0	0	0	0	0
7/5/2024 14:10	20401	ASHF_T2	6	8	2	1.08	0.85	-0.23	0	0	0	0	0	0	0	0
7/5/2024 14:12	61704	ELIZ_T2	1	6	5	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/5/2024 14:12	46204	DANV_T2	0	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0
7/5/2024 14:12	46203	DANV_T2	1	2	1	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
7/5/2024 14:12	61702	ELIZ_T2	3	13	10	0.2	0.63	0.43	-0.93	-0.95	2	2	0	1500	1500	0
7/5/2024 14:12	46206	DANV_T2	13	26	13	0.47	0.62	0.15	0.83	0.87	2	2	0	2100	2100	0
7/5/2024 14:13	61703	ELIZ_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 14:13	61701	ELIZ_T1	2	2	0	0.1	0.2	0.1	1.64	1.54	0	0	0	0	0	0
7/5/2024 14:14	67605	WARW_T1	1	0	-1	0.2	0	-0.2	-0.58	-0.56	0	0	0	0	0	0
7/5/2024 14:15	67605	WARW_T1	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
7/5/2024 14:18	43801	SWIL_T1	2	2	0	3.25	3.3	0.05	0	0	0	0	0	0	0	0
7/5/2024 14:18	43802	SWIL_T1	11	12	1	3.29	3.92	0.63	0.55	0.51	1	1	0	600	600	0
7/5/2024 14:22	24204	PROV_T3	1	1	0	7.3	7.2	-0.1	0	0	0	0	0	0	0	0
7/5/2024 14:22	24201	PROV_T3	4	4	0	3.9	3.93	0.03	-0.46	-0.43	1	1	0	1200	1200	0
7/5/2024 14:25	66505	SMAN_T2	274	237	-37	0.62	0.64	0.02	0	0	0	0	0	0	0	0
7/5/2024 14:25	66503	SMAN_T2	0	7	7	0	0.18	0.18	0	0	0	0	0	0	0	0
7/5/2024 14:25	66504	SMAN_T2	12	7	-5	0.63	0.41	-0.22	0.05	0.11	0	0	0	0	0	0
7/5/2024 14:29	53901	HALI_T2	1	0	-1	0.6	0	-0.6	-0.69	-0.65	0	0	0	0	0	0
7/5/2024 14:29	53903	HALI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/5/2024 14:29	53902	HALI_T2	1	1	0	3.7	3.8	0.1	0	0	0	0	0	0	0	0
7/5/2024 14:29	11507	FREE_T2	4	7	3	0.35	0	-0.35	-0.71	-0.64	1	1	0	600	600	0
7/5/2024 14:30	52006	LING_T2	4	3	-1	0.58	0	-0.58	0	0	0	0	0	0	0	0
7/5/2024 14:30	63804	HEMP_T1	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
7/5/2024 14:30	63803	HEMP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/5/2024 14:30	52004	LING_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
7/5/2024 14:30	52002	LING_T2	8	14	6	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
7/5/2024 14:30	63801	HEMP_T1	0	0	0	0	0	0	-0.31	-0.29	1	1	0	900	900	0
7/5/2024 14:31	42001	MNVL_T2	1	4	3	0.6	0.2	-0.4	1.03	1.03	0	0	0	0	0	0
7/5/2024 14:31	42002	MNVL_T2	1	1	0	3.5	3.5	0	0	0	0	0	0	0	0	0
7/5/2024 14:32	64203	KINZ_T1	6	7	1	1.3	1.36	0.06	-0.39	-0.41	3	3	0	2100	2100	0
7/5/2024 14:32	64202	KINZ_T1	0	5	5	0	0.4	0.4	1.21	2.05	0	0	0	0	0	0
7/5/2024 14:32	64204	KINZ_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/5/2024 14:32	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 14:33	64202	KINZ_T1	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
7/5/2024 14:33	64203	KINZ_T1	6	7	1	1.3	1.36	0.06	-0.39	-0.41	3	3	0	2100	2100	0
7/5/2024 14:33	64204	KINZ_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/5/2024 14:33	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 14:34	66703	STRA_T1	55	69	14	0.7	0.54	-0.16	0	0	0	0	0	0	0	0
7/5/2024 14:34	66701	STRA_T1	7	8	1	1.09	1.36	0.27	1.06	1.18	1	1	0	600	600	0
7/5/2024 14:35	66701	STRA_T1	7	8	1	1.09	1.36	0.27	1.06	1.18	1	1	0	600	600	0
7/5/2024 14:35	66703	STRA_T1	55	69	14	0.7	0.54	-0.16	0	0	0	0	0	0	0	0
7/5/2024 14:36	67605	WARW_T1	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
7/5/2024 14:36	66703	STRA_T1	55	69	14	0.7	0.54	-0.16	0	0	0	0	0	0	0	0
7/5/2024 14:36	66701	STRA_T1	7	8	1	1.09	1.36	0.27	1.18	1.13	1	1	0	600	600	0
7/5/2024 14:37	67605	WARW_T1	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
7/5/2024 14:38	66503	SMAN_T2	4	7	3	0.18	0.2	0.02	0	0	0	0	0	0	0	0
7/5/2024 14:38	66103	REAM_T2	1	1	0	0.2	0	-0.2	0.23	0.19	1	1	0	1200	1200	0
7/5/2024 14:38	59202	THOM_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
7/5/2024 14:38	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/5/2024 14:38	42701	AUGU_T1	49	54	5	0.68	0.6	-0.08	0	0	2	2	0	1800	1800	0
7/5/2024 14:38	66504	SMAN_T2	7	7	0	0.46	0.35	-0.11	0.22	0.36	0	0	0	0	0	0
7/5/2024 14:38	66505	SMAN_T2	159	234	75	0.71	0.61	-0.1	0	0	0	0	0	0	0	0
7/5/2024 14:38	66703	STRA_T1	55	69	14	0.7	0.54	-0.16	0	0	0	0	0	0	0	0
7/5/2024 14:38	66701	STRA_T1	7	8	1	1.09	1.36	0.27	1.18	1.13	1	1	0	600	600	0
7/5/2024 14:39	66703	STRA_T1	55	69	14	0.7	0.54	-0.16	0.29	0.31	0	0	0	0	0	0
7/5/2024 14:39	66701	STRA_T1	7	8	1	1.09	1.36	0.27	0	0	0	0	0	0	0	0
7/5/2024 14:39	67804	WLAN_T1	10	10	0	2.96	2.45	-0.51	0	0	0	0	0	0	0	0
7/5/2024 14:39	67801	WLAN_T1	44	52	8	0.77	0.47	-0.3	-0.88	-0.85	0	0	0	0	0	0
7/5/2024 14:41	15001	BLMO_T1	13	19	6	0.42	0.35	-0.07	0	0	0	0	0	0	0	0
7/5/2024 14:42	61703	ELIZ_T1	6	5	-1	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
7/5/2024 14:42	42701	AUGU_T1	49	54	5	0.68	0.6	-0.08	0	0	2	2	0	1800	1800	0
7/5/2024 14:42	61701	ELIZ_T1	0	1	1	0	0.2	0.2	1.53	1.55	0	0	0	0	0	0
7/5/2024 14:42	42901	MIDD_T2	4	4	0	1.18	0.7	-0.48	0	0	0	0	0	0	0	0
7/5/2024 14:42	42902	MIDD_T2	33	53	20	0.9	0.84	-0.06	-0.08	-0.1	0	0	0	0	0	0
7/5/2024 14:43	42901	MIDD_T2	4	4	0	1.18	0.7	-0.48	0	0	0	0	0	0	0	0
7/5/2024 14:43	42902	MIDD_T2	33	53	20	0.9	0.84	-0.06	-0.15	-0.19	0	0	0	0	0	0
7/5/2024 14:44	42902	MIDD_T2	33	53	20	0.9	0.84	-0.06	-0.15	-0.19	0	0	0	0	0	0
7/5/2024 14:44	42901	MIDD_T2	4	4	0	1.18	0.7	-0.48	0	0	0	0	0	0	0	0
7/5/2024 14:45	42901	MIDD_T2	4	3	-1	0.9	0.43	-0.47	0	0	0	0	0	0	0	0
7/5/2024 14:45	42902	MIDD_T2	53	23	-30	2.03	0.81	-1.22	-0.08	-0.1	0	0	0	0	0	0
7/5/2024 14:47	53501	EVIL_T2	0	3	3	0	0.1	0.1	-1	-0.93	1	1	0	900	900	0
7/5/2024 14:50	46101	MACI_T2	0	0	0	0	0	0	0.08	0.06	1	1	0	1200	1200	0
7/5/2024 14:50	57401	SPAN_T1	140	238	98	0.52	0.52	0	-0.49	-0.46	1	1	0	600	600	0
7/5/2024 14:50	57403	SPAN_T1	4	4	0	0.33	0	-0.33	0	0	0	0	0	0	0	0
7/5/2024 14:51	58401	MORO_T1	1	3	2	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/5/2024 14:51	58402	MORO_T1	3	4	1	0.37	0	-0.37	-0.82	-0.84	5	5	0	3150	3150	0
7/5/2024 14:53	43304	WATS_T2	4	14	10	0.55	0.56	0.01	-0.53	-0.66	1	1	0	600	600	0
7/5/2024 14:57	67605	WARW_T1	0	0	0	0	0	0	-0.6	-0.55	0	0	0	0	0	0
7/5/2024 14:57	43304	WATS_T2	4	14	10	0.55	0.56	0.01	-0.53	-0.66	1	1	0	600	600	0
7/5/2024 14:58	45801	HEGI_T1	0	0	0	0	0	0	-0.15	-0.15	1	1	0	900	900	0
7/5/2024 14:58	67605	WARW_T1	0	0	0	0	0	0	-0.6	-0.55	0	0	0	0	0	0
7/5/2024 14:58	61701	ELIZ_T1	1	2	1	0.4	0.2	-0.2	1.55	1.61	0	0	0	0	0	0
7/5/2024 14:58	61703	ELIZ_T1	5	3	-2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/5/2024 14:59	51109	CARL_T1	0	0	0	0	0	0	-1.39	-1.39	1	1	0	1200	1200	0
7/5/2024 14:59	51101	CARL_T1	1	1	0	8.5	8.3	-0.2	0	0	0	0	0	0	0	0
7/5/2024 14:59	51108	CARL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/5/2024 14:59	51107	CARL_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/5/2024 15:00	64203	KINZ_T1	7	5	-2	1.4	1.15	-0.25	0	0	0	0	0	0	0	0
7/5/2024 15:00	64204	KINZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/5/2024 15:00	64202	KINZ_T1	5	23	18	0.4	0.17	-0.23	0	0	0	0	0	0	0	0
7/5/2024 15:00	64201	KINZ_T1	1	0	-1	0.2	0	-0.2	-0.96	-1.04	5	5	0	3300	3300	0
7/5/2024 15:05	56504	ROCK_T2	0	3	3	0	0	0	1.06	1.06	0	0	0	0	0	0
7/5/2024 15:05	56501	ROCK_T2	17	7	-10	0.29	0.4	0.11	0	0	0	0	0	0	0	0
7/5/2024 15:05	56503	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/5/2024 15:07	40603	PIGR_T1	22	29	7	0.47	0.44	-0.03	0	0	0	0	0	0	0	0
7/5/2024 15:07	56504	ROCK_T2	0	3	3	0	0	0	1.06	1.13	0	0	0	0	0	0
7/5/2024 15:07	56501	ROCK_T2	17	7	-10	0.29	0.4	0.11	-2.08	-2	0	0	0	0	0	0
7/5/2024 15:07	51401	LYKE_T1	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
7/5/2024 15:07	56503	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/5/2024 15:07	40601	PIGR_T1	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
7/5/2024 15:07	40602	PIGR_T1	1	2	1	0.3	0.1	-0.2	-0.13	-0.09	0	0	0	0	0	0
7/5/2024 15:08	13606	RICH_T2	21	26	5	1.94	1.78	-0.16	0.22	0.3	0	0	0	0	0	0
7/5/2024 15:08	13601	RICH_T2	2	11	9	0.25	0.73	0.48	0	0	0	0	0	0	0	0
7/5/2024 15:08	56503	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/5/2024 15:08	56501	ROCK_T2	17	7	-10	0.29	0.4	0.11	0	0	0	0	0	0	0	0
7/5/2024 15:08	56504	ROCK_T2	0	3	3	0	0	0	0.53	0.57	0	0	0	0	0	0
7/5/2024 15:10	46206	DANV_T2	35	39	4	0.48	0.59	0.11	0.84	0.85	2	2	0	2100	2100	0
7/5/2024 15:10	46203	DANV_T2	3	7	4	0.57	0.3	-0.27	0	0	0	0	0	0	0	0
7/5/2024 15:10	46204	DANV_T2	14	23	9	0.62	0.57	-0.05	0	0	0	0	0	0	0	0
7/5/2024 15:10	51401	LYKE_T1	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
7/5/2024 15:11	46204	DANV_T2	14	23	9	0.62	0.57	-0.05	0	0	0	0	0	0	0	0
7/5/2024 15:11	46203	DANV_T2	3	7	4	0.57	0.3	-0.27	0	0	0	0	0	0	0	0
7/5/2024 15:11	46206	DANV_T2	35	39	4	0.48	0.59	0.11	0.84	0.85	2	2	0	2100	2100	0
7/5/2024 15:11	42701	AUGU_T1	54	56	2	0.83	0.65	-0.18	0	0	2	2	0	1800	1800	0
7/5/2024 15:11	56801	BENV_T1	5	7	2	0.54	0.56	0.02	0.01	0.03	2	2	0	1200	1200	0
7/5/2024 15:11	56803	BENV_T1	6	9	3	2.03	1.98	-0.05	0.05	0	1	1	0	600	600	0
7/5/2024 15:12	56801	BENV_T1	5	7	2	0.54	0.56	0.02	0.01	0.03	2	2	0	1200	1200	0
7/5/2024 15:12	56503	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/5/2024 15:12	56803	BENV_T1	6	9	3	2.03	1.98	-0.05	0	0	0	0	0	0	0	0
7/5/2024 15:12	56504	ROCK_T2	0	3	3	0	0	0	0.53	0.57	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/5/2024 15:12	56501	ROCK_T2	17	7	-10	0.29	0.4	0.11	0	0	0	0	0	0	0	0
7/5/2024 15:13	46206	DANV_T2	35	39	4	0.48	0.59	0.11	0.84	0.85	2	2	0	2100	2100	0
7/5/2024 15:13	56801	BENV_T1	5	7	2	0.54	0.56	0.02	0.01	0.01	1	1	0	600	600	0
7/5/2024 15:13	22901	HARW_T1	0	0	0	0	0	0	-0.8	-0.8	2	2	0	2400	2400	0
7/5/2024 15:13	46203	DANV_T2	3	7	4	0.57	0.3	-0.27	0	0	0	0	0	0	0	0
7/5/2024 15:13	22903	HARW_T1	23	23	0	1.18	1.35	0.17	0	0	0	0	0	0	0	0
7/5/2024 15:13	46204	DANV_T2	14	23	9	0.62	0.57	-0.05	0	0	0	0	0	0	0	0
7/5/2024 15:13	56803	BENV_T1	6	9	3	2.03	1.98	-0.05	0	0	0	0	0	0	0	0
7/5/2024 15:14	56803	BENV_T1	6	9	3	2.03	1.98	-0.05	0	0	0	0	0	0	0	0
7/5/2024 15:14	56801	BENV_T1	5	7	2	0.54	0.56	0.02	0.01	0.03	2	2	0	1200	1200	0
7/5/2024 15:15	20401	ASHF_T2	5	4	-1	1.22	1.28	0.06	0	0	0	0	0	0	0	0
7/5/2024 15:15	56801	BENV_T1	4	5	1	0.55	0.6	0.05	0.01	0.03	2	2	0	1200	1200	0
7/5/2024 15:15	20403	ASHF_T2	0	0	0	0	0	0	1.27	1.22	0	0	0	0	0	0
7/5/2024 15:15	20402	ASHF_T2	8	6	-2	0.49	0	-0.49	0	0	0	0	0	0	0	0
7/5/2024 15:15	56803	BENV_T1	8	11	3	1.98	2.08	0.1	0	0	0	0	0	0	0	0
7/5/2024 15:16	52001	LING_T1	0	0	0	0	0	0	1.12	1.13	0	0	0	0	0	0
7/5/2024 15:17	42002	MNVL_T2	2	5	3	2.1	1.95	-0.15	0.04	0.02	0	0	0	0	0	0
7/5/2024 15:18	53501	EVIL_T2	2	1	-1	0.3	0.3	0	-0.91	-0.85	1	1	0	900	900	0
7/5/2024 15:18	47101	MARL_T1	59	97	38	1.14	1.12	-0.02	-0.64	-0.6	1	1	0	600	600	0
7/5/2024 15:19	67605	WARW_T1	0	0	0	0	0	0	-0.55	-0.51	0	0	0	0	0	0
7/5/2024 15:20	47101	MARL_T1	59	97	38	1.14	1.12	-0.02	-1.29	-1.2	2	2	0	1200	1200	0
7/5/2024 15:20	67605	WARW_T1	0	0	0	0	0	0	-0.55	-0.51	0	0	0	0	0	0
7/5/2024 15:20	44203	POIN_T2	60	66	6	1.32	1.44	0.12	0.36	0.22	2	2	0	2100	2100	0
7/5/2024 15:21	42201	SHEN_T2	1	1	0	0.6	0.2	-0.4	0.41	0.42	1	1	0	600	600	0
7/5/2024 15:21	48302	ORWI_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
7/5/2024 15:21	50701	SMEC_T1	1	0	-1	0.3	0	-0.3	-0.57	-0.61	2	2	0	2100	2100	0
7/5/2024 15:21	47101	MARL_T1	59	97	38	1.14	1.12	-0.02	-0.64	-0.6	1	1	0	600	600	0
7/5/2024 15:22	44203	POIN_T2	60	66	6	1.32	1.44	0.12	0.22	0.28	2	2	0	2100	2100	0
7/5/2024 15:23	67703	WERN_T2	3	18	15	0.2	0.28	0.08	-0.01	-0.01	1	1	0	900	900	0
7/5/2024 15:23	67701	WERN_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/5/2024 15:24	50701	SMEC_T1	1	0	-1	0.3	0	-0.3	-0.61	-0.49	2	2	0	2100	2100	0
7/5/2024 15:31	64305	LINC_T1	1	1	0	1.1	1.2	0.1	-0.09	-0.1	0	0	0	0	0	0
7/5/2024 15:31	64303	LINC_T1	1	1	0	2.4	1.5	-0.9	0	0	0	0	0	0	0	0
7/5/2024 15:31	64301	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 15:33	64203	KINZ_T1	4	7	3	1.3	1.75	0.45	0	0	0	0	0	0	0	0
7/5/2024 15:33	64204	KINZ_T1	0	5	5	0	0.95	0.95	0	0	0	0	0	0	0	0
7/5/2024 15:33	64201	KINZ_T1	0	0	0	0	0	0	-1.04	-1.19	5	5	0	3300	3300	0
7/5/2024 15:33	64202	KINZ_T1	23	8	-15	0.37	0.15	-0.22	0	0	0	0	0	0	0	0
7/5/2024 15:33	40101	HUNT_T2	126	310	184	0.55	0.65	0.1	-0.61	-0.62	0	0	0	0	0	0
7/5/2024 15:34	64902	MILL_T2	0	0	0	0	0	0	-0.13	-0.07	1	1	0	900	900	0
7/5/2024 15:34	47101	MARL_T1	79	133	54	1.14	1.27	0.13	-0.6	-0.57	1	1	0	600	600	0
7/5/2024 15:34	47104	MARL_T1	0	9	9	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 15:36	47101	MARL_T1	79	133	54	1.14	1.27	0.13	-0.6	-0.57	1	1	0	600	600	0
7/5/2024 15:36	64302	LINC_T2	83	202	119	0.39	0.9	0.51	1.9	1.88	0	0	0	0	0	0
7/5/2024 15:36	47401	PENS_T1	7	8	1	0.59	0.87	0.28	0.29	0.26	0	0	0	0	0	0
7/5/2024 15:36	64304	LINC_T2	12	16	4	1.85	0	-1.85	0	0	0	0	0	0	0	0
7/5/2024 15:36	47402	PENS_T1	2	2	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/5/2024 15:36	47104	MARL_T1	0	9	9	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 15:37	47402	PENS_T1	2	2	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/5/2024 15:37	47401	PENS_T1	7	8	1	0.59	0.87	0.28	0.59	0.52	0	0	0	0	0	0
7/5/2024 15:38	56501	ROCK_T2	4	5	1	0.28	0.45	0.17	-2.02	-2	0	0	0	0	0	0
7/5/2024 15:38	66901	SHIL_T2	0	0	0	0	0	0	-1.42	-1.41	0	0	0	0	0	0
7/5/2024 15:38	56504	ROCK_T2	3	20	17	0.53	0.33	-0.2	0	0	0	0	0	0	0	0
7/5/2024 15:38	66902	SHIL_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 15:39	56501	ROCK_T2	4	5	1	0.28	0.45	0.17	0	0	0	0	0	0	0	0
7/5/2024 15:39	56504	ROCK_T2	3	20	17	0.53	0.33	-0.2	0.57	0.58	0	0	0	0	0	0
7/5/2024 15:40	46203	DANV_T2	6	7	1	0.42	0.63	0.21	-0.65	-0.64	0	0	0	0	0	0
7/5/2024 15:40	46204	DANV_T2	22	24	2	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
7/5/2024 15:40	46205	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 15:40	20403	ASHF_T2	0	1	1	0	0	0	1.17	1.27	0	0	0	0	0	0
7/5/2024 15:40	20401	ASHF_T2	4	8	4	1.45	1.2	-0.25	0	0	0	0	0	0	0	0
7/5/2024 15:40	20402	ASHF_T2	6	1	-5	1.08	0	-1.08	0	0	0	0	0	0	0	0
7/5/2024 15:40	46206	DANV_T2	38	46	8	0.6	0.6	0	0	0	0	0	0	0	0	0
7/5/2024 15:41	24104	EHAZ_T1	16	12	-4	0.19	0.17	-0.02	-1.84	-1.83	1	1	0	1200	1200	0
7/5/2024 15:41	24102	EHAZ_T1	1	2	1	0.9	2	1.1	0	0	0	0	0	0	0	0
7/5/2024 15:41	24105	EHAZ_T1	4	4	0	6.28	6.25	-0.03	0	0	0	0	0	0	0	0
7/5/2024 15:41	24101	EHAZ_T1	22	15	-7	0.81	0.38	-0.43	0	0	0	0	0	0	0	0
7/5/2024 15:42	46205	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 15:42	46204	DANV_T2	22	24	2	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
7/5/2024 15:42	46203	DANV_T2	6	7	1	0.42	0.63	0.21	-0.65	-0.64	0	0	0	0	0	0
7/5/2024 15:42	46206	DANV_T2	38	46	8	0.6	0.6	0	0.91	0.89	2	2	0	2100	2100	0
7/5/2024 15:43	46205	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 15:43	46203	DANV_T2	6	7	1	0.42	0.63	0.21	0	0	0	0	0	0	0	0
7/5/2024 15:43	11406	FARM_T1	11	15	4	0.65	0.67	0.02	0	0	0	0	0	0	0	0
7/5/2024 15:43	11404	FARM_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/5/2024 15:43	11405	FARM_T1	6	41	35	0.58	0.75	0.17	-0.32	-0.28	1	1	0	1200	1200	0
7/5/2024 15:43	11402	FARM_T1	7	42	35	1.1	0.75	-0.35	0	0	0	0	0	0	0	0
7/5/2024 15:43	11407	FARM_T1	2	2	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/5/2024 15:43	46206	DANV_T2	38	46	8	0.6	0.6	0	0.91	0.89	2	2	0	2100	2100	0
7/5/2024 15:43	46204	DANV_T2	22	24	2	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
7/5/2024 15:44	46205	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 15:44	46206	DANV_T2	38	46	8	0.6	0.6	0	0	0	0	0	0	0	0	0
7/5/2024 15:44	46203	DANV_T2	6	7	1	0.42	0.63	0.21	-0.65	-0.64	0	0	0	0	0	0
7/5/2024 15:44	46204	DANV_T2	22	24	2	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
7/5/2024 15:45	46204	DANV_T2	20	23	3	0.78	0.53	-0.25	0	0	0	0	0	0	0	0
7/5/2024 15:45	61701	ELIZ_T1	1	13	12	0.8	0.34	-0.46	1.54	1.7	0	0	0	0	0	0
7/5/2024 15:45	46206	DANV_T2	44	39	-5	0.66	0.53	-0.13	0.91	0.89	2	2	0	2100	2100	0
7/5/2024 15:45	46205	DANV_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/5/2024 15:45	61703	ELIZ_T1	46	86	40	0.43	0.42	-0.01	0	0	0	0	0	0	0	0
7/5/2024 15:45	25402	LAHA_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
7/5/2024 15:45	46203	DANV_T2	7	5	-2	0.57	0.6	0.03	-0.65	-0.64	0	0	0	0	0	0
7/5/2024 15:46	52002	LING_T2	2	21	19	0.1	0.18	0.08	0	0	0	0	0	0	0	0
7/5/2024 15:46	52004	LING_T2	1	0	-1	2	0	-2	0.53	0.38	0	0	0	0	0	0
7/5/2024 15:46	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 15:50	57301	MOAL_T2	1	1	0	3.2	1.3	-1.9	0	0	0	0	0	0	0	0
7/5/2024 15:50	57303	MOAL_T2	1	1	0	8.3	8.3	0	0	0	0	0	0	0	0	0
7/5/2024 15:50	57304	MOAL_T2	24	24	0	1.2	1.04	-0.16	0.07	0.02	0	0	0	0	0	0
7/5/2024 15:51	58706	ROSE_T2	1	3	2	2.4	2.3	-0.1	0.57	0.49	1	1	0	600	600	0
7/5/2024 15:51	58704	ROSE_T2	1	0	-1	2.4	0	-2.4	0	0	0	0	0	0	0	0
7/5/2024 15:51	56501	ROCK_T2	4	6	2	0.48	0.58	0.1	-2.02	-2	0	0	0	0	0	0
7/5/2024 15:51	46301	ROHR_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/5/2024 15:51	46302	ROHR_T1	9	10	1	1.66	1.75	0.09	0.53	0.55	0	0	0	0	0	0
7/5/2024 15:51	56504	ROCK_T2	8	24	16	0.5	0.39	-0.11	0	0	0	0	0	0	0	0
7/5/2024 15:51	58701	ROSE_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/5/2024 15:51	58705	ROSE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 15:52	56501	ROCK_T2	4	6	2	0.48	0.58	0.1	-2	-2.01	0	0	0	0	0	0
7/5/2024 15:52	56504	ROCK_T2	8	24	16	0.5	0.39	-0.11	0	0	0	0	0	0	0	0
7/5/2024 15:53	46302	ROHR_T1	9	10	1	1.66	1.75	0.09	0.53	0.55	0	0	0	0	0	0
7/5/2024 15:53	56501	ROCK_T2	4	6	2	0.48	0.58	0.1	-6.01	-6.02	0	0	0	0	0	0
7/5/2024 15:53	46301	ROHR_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/5/2024 15:53	56504	ROCK_T2	8	24	16	0.5	0.39	-0.11	0	0	0	0	0	0	0	0
7/5/2024 15:54	46301	ROHR_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/5/2024 15:54	46302	ROHR_T1	9	10	1	1.66	1.75	0.09	0.53	0.55	0	0	0	0	0	0
7/5/2024 15:58	46206	DANV_T2	44	39	-5	0.66	0.53	-0.13	0	0	0	0	0	0	0	0
7/5/2024 15:58	46205	DANV_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/5/2024 15:58	46203	DANV_T2	7	5	-2	0.57	0.6	0.03	-0.64	-0.62	0	0	0	0	0	0
7/5/2024 15:58	46204	DANV_T2	20	23	3	0.78	0.53	-0.25	0	0	0	0	0	0	0	0
7/5/2024 16:00	51804	EBEN_T2	1	4	3	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/5/2024 16:00	20601	GRWO_T2	4	72	68	0.25	0.5	0.25	0.25	0.25	0	0	0	0	0	0
7/5/2024 16:00	51802	EBEN_T2	14	13	-1	0.77	0.68	-0.09	0.81	0.83	1	1	0	900	900	0
7/5/2024 16:03	40101	HUNT_T2	292	379	87	0.64	0.7	0.06	-0.6	-0.64	0	0	0	0	0	0
7/5/2024 16:06	12305	LANA_T2	23	24	1	0.7	0.68	-0.02	0	0	0	0	0	0	0	0
7/5/2024 16:06	12302	LANA_T2	4	10	6	0.4	0.45	0.05	-1.33	-1.36	3	3	0	2700	2700	0
7/5/2024 16:06	12301	LANA_T2	3	4	1	1.93	0.3	-1.63	0	0	0	0	0	0	0	0
7/5/2024 16:06	12304	LANA_T2	246	249	3	1.17	1.09	-0.08	0	0	0	0	0	0	0	0
7/5/2024 16:10	67602	WARW_T2	7	11	4	0.49	0.39	-0.1	0.64	0.62	2	2	0	1500	1500	0
7/5/2024 16:10	61505	EPET_T1	0	0	0	0	0	0	0.93	0.94	0	0	0	0	0	0
7/5/2024 16:10	61502	EPET_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 16:12	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 16:12	61701	ELIZ_T1	13	10	-3	0.38	0.34	-0.04	0	0	0	0	0	0	0	0
7/5/2024 16:12	67602	WARW_T2	7	11	4	0.49	0.39	-0.1	0.64	0.62	2	2	0	1500	1500	0
7/5/2024 16:12	29402	BELT_T1	84	98	14	1.06	0.82	-0.24	0	0	0	0	0	0	0	0
7/5/2024 16:12	61703	ELIZ_T1	83	78	-5	0.47	0.45	-0.02	-1.99	-2.09	2	2	0	2100	2100	0
7/5/2024 16:14	67602	WARW_T2	7	11	4	0.49	0.39	-0.1	0.64	0.62	2	2	0	1500	1500	0
7/5/2024 16:20	44203	POIN_T2	57	79	22	1.23	1.41	0.18	0.23	0.13	2	2	0	2100	2100	0
7/5/2024 16:21	44202	POIN_T2	0	0	0	0	0	0	-0.49	-0.46	2	2	0	1800	1800	0
7/5/2024 16:21	44203	POIN_T2	57	79	22	1.23	1.41	0.18	0	0	0	0	0	0	0	0
7/5/2024 16:26	59101	WALK_T2	3	3	0	0.3	0.6	0.3	0.06	0.07	1	1	0	600	600	0
7/5/2024 16:28	56801	BENV_T1	1	2	1	0.4	0.7	0.3	0.04	0.05	1	1	0	600	600	0
7/5/2024 16:28	56803	BENV_T1	8	10	2	1.5	1.67	0.17	0	0	0	0	0	0	0	0
7/5/2024 16:29	61701	ELIZ_T1	5	10	5	0.34	0.26	-0.08	1.53	1.54	0	0	0	0	0	0
7/5/2024 16:29	61703	ELIZ_T1	50	73	23	0.49	0.35	-0.14	0	0	0	0	0	0	0	0
7/5/2024 16:32	64305	LINC_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
7/5/2024 16:32	64303	LINC_T1	1	1	0	1.5	0.3	-1.2	0	0	0	0	0	0	0	0
7/5/2024 16:32	64301	LINC_T1	1	0	-1	0.7	0	-0.7	-0.27	-0.27	1	1	0	600	600	0
7/5/2024 16:33	64305	LINC_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
7/5/2024 16:33	64303	LINC_T1	1	1	0	1.5	0.3	-1.2	0	0	0	0	0	0	0	0
7/5/2024 16:33	64301	LINC_T1	1	0	-1	0.7	0	-0.7	-0.27	-0.27	1	1	0	600	600	0
7/5/2024 16:34	40101	HUNT_T2	349	318	-31	0.78	0.66	-0.12	-0.59	-0.61	0	0	0	0	0	0
7/5/2024 16:37	56504	ROCK_T2	29	25	-4	0.38	0.34	-0.04	0	0	0	0	0	0	0	0
7/5/2024 16:37	56501	ROCK_T2	5	8	3	1.46	0.43	-1.03	-1.95	-1.93	0	0	0	0	0	0
7/5/2024 16:38	56501	ROCK_T2	5	8	3	1.46	0.43	-1.03	-1.95	-1.93	0	0	0	0	0	0
7/5/2024 16:38	60201	ATGL_T2	0	0	0	0	0	0	0.67	0.71	2	2	0	900	900	0
7/5/2024 16:38	56504	ROCK_T2	29	25	-4	0.38	0.34	-0.04	0	0	0	0	0	0	0	0
7/5/2024 16:40	10704	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 16:40	10701	CATA_T2	10	6	-4	0.77	0.23	-0.54	0	0	0	0	0	0	0	0
7/5/2024 16:40	10705	CATA_T2	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
7/5/2024 16:42	67802	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 16:42	67801	WLAN_T1	60	75	15	0.7	0.57	-0.13	-0.74	-0.76	0	0	0	0	0	0
7/5/2024 16:42	67804	WLAN_T1	10	10	0	1.83	1.23	-0.6	0	0	0	0	0	0	0	0
7/5/2024 16:43	10701	CATA_T2	10	6	-4	0.77	0.23	-0.54	0	0	0	0	0	0	0	0
7/5/2024 16:43	10705	CATA_T2	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
7/5/2024 16:43	10704	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/5/2024 16:45	40101	HUNT_T2	295	255	-40	0.66	0.58	-0.08	-0.61	-0.61	0	0	0	0	0	0
7/5/2024 16:49	47402	PENS_T1	3	10	7	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
7/5/2024 16:49	47401	PENS_T1	8	16	8	0.69	0.9	0.21	0.32	0.31	0	0	0	0	0	0
7/5/2024 16:50	47402	PENS_T1	3	10	7	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
7/5/2024 16:50	47401	PENS_T1	8	16	8	0.69	0.9	0.21	0.32	0.31	0	0	0	0	0	0
7/5/2024 16:52	47402	PENS_T1	3	10	7	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
7/5/2024 16:52	47401	PENS_T1	8	16	8	0.69	0.9	0.21	0.31	0.32	0	0	0	0	0	0
7/5/2024 16:56	11504	FREE_T1	1	1	0	0.1	0	-0.1	-1.23	-1.37	2	2	0	2100	2100	0
7/5/2024 17:05	57401	SPAN_T1	32	5	-27	0.6	1.4	0.8	0	0	0	0	0	0	0	0
7/5/2024 17:05	57403	SPAN_T1	27	22	-5	0.57	0.42	-0.15	0.8	0.82	0	0	0	0	0	0
7/5/2024 17:06	57401	SPAN_T1	32	5	-27	0.6	1.4	0.8	0	0	0	0	0	0	0	0
7/5/2024 17:06	66701	STRA_T1	16	18	2	1.19	0.77	-0.42	0	0	0	0	0	0	0	0
7/5/2024 17:06	57403	SPAN_T1	27	22	-5	0.57	0.42	-0.15	1.6	1.64	0	0	0	0	0	0
7/5/2024 17:06	41901	REED_T1	13	12	-1	0.65	0.65	0	0	0	0	0	0	0	0	0
7/5/2024 17:06	41902	REED_T1	150	206	56	0.69	0.9	0.21	1.83	1.88	2	2	0	1800	1800	0
7/5/2024 17:06	66703	STRA_T1	135	48	-87	0.72	0.35	-0.37	0.15	0.06	0	0	0	0	0	0
7/5/2024 17:09	66902	SHIL_T2	1	2	1	0.4	0	-0.4	-1.33	-1.36	0	0	0	0	0	0
7/5/2024 17:10	46001	BERW_T1	6	2	-4	0.18	0	-0.18	1.51	1.49	0	0	0	0	0	0
7/5/2024 17:13	62102	ELAN_T1	1	1	0	0.1	0	-0.1	0.19	0.17	0	0	0	0	0	0
7/5/2024 17:15	46001	BERW_T1	2	9	7	0.45	0	-0.45	1.51	1.49	0	0	0	0	0	0
7/5/2024 17:33	55001	NEWP_T1	48	68	20	0.69	0.73	0.04	0	-0.01	0	0	0	0	0	0
7/5/2024 17:35	46102	MACI_T1	0	0	0	0	0	0	1.24	1.23	0	0	0	0	0	0
7/5/2024 17:35	55001	NEWP_T1	48	68	20	0.69	0.73	0.04	0	-0.01	0	0	0	0	0	0
7/5/2024 17:36	57401	SPAN_T1	5	65	60	0.76	0.48	-0.28	-1.29	-1.01	2	2	0	1500	1500	0
7/5/2024 17:36	57403	SPAN_T1	21	9	-12	0.43	0.19	-0.24	0	0	0	0	0	0	0	0
7/5/2024 17:38	57401	SPAN_T1	5	65	60	0.76	0.48	-0.28	-3.02	-2.99	6	6	0	4500	4500	0
7/5/2024 17:38	57403	SPAN_T1	21	9	-12	0.43	0.19	-0.24	0	0	0	0	0	0	0	0
7/5/2024 17:39	57403	SPAN_T1	21	9	-12	0.43	0.19	-0.24	0	0	0	0	0	0	0	0
7/5/2024 17:39	57401	SPAN_T1	5	65	60	0.76	0.48	-0.28	-1.01	-1	2	2	0	1500	1500	0
7/5/2024 17:40	57403	SPAN_T1	21	9	-12	0.43	0.19	-0.24	0	0	0	0	0	0	0	0
7/5/2024 17:40	57401	SPAN_T1	5	65	60	0.76	0.48	-0.28	-1.01	-1	2	2	0	1500	1500	0
7/5/2024 17:42	42701	AUGU_T1	75	72	-3	1.82	1.49	-0.33	0	0	2	2	0	1800	1800	0
7/5/2024 17:45	52402	GRPA_T2	104	95	-9	1.9	1.4	-0.5	0	0	0	0	0	0	0	0
7/5/2024 17:45	52403	GRPA_T2	246	220	-26	1.53	1.53	0	0	0	0	0	0	0	0	0
7/5/2024 17:45	52401	GRPA_T2	81	68	-13	0.94	0.58	-0.36	0	0	0	0	0	0	0	0
7/5/2024 17:45	52404	GRPA_T2	72	46	-26	0.52	0.33	-0.19	-0.03	-0.04	0	0	0	0	0	0
7/5/2024 17:48	52006	LING_T2	6	5	-1	0.83	0.46	-0.37	0	0	0	0	0	0	0	0
7/5/2024 17:48	52002	LING_T2	36	31	-5	0.41	0.21	-0.2	0.47	0.45	0	0	0	0	0	0
7/5/2024 17:48	52004	LING_T2	3	2	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/5/2024 17:51	58705	ROSE_T2	0	2	2	0	0	0	-1.28	-1.29	1	1	0	600	600	0
7/5/2024 17:51	58706	ROSE_T2	5	2	-3	0.68	1.1	0.42	0	0	0	0	0	0	0	0
7/5/2024 17:51	58705	ROSE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 18:03	46802	HEPB_T1	1	1	0	0.6	0	-0.6	0.44	0.44	0	0	0	0	0	0
7/5/2024 18:04	65902	SAKR_T2	2	4	2	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
7/5/2024 18:04	65903	SAKR_T2	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
7/5/2024 18:04	65901	SAKR_T2	1	1	0	5.5	5.4	-0.1	-0.04	-0.09	2	2	0	1500	1500	0
7/5/2024 18:16	63804	HEMP_T1	2	1	-1	3.7	6.9	3.2	0.44	0.4	0	0	0	0	0	0
7/5/2024 18:19	47401	PENS_T1	11	15	4	1.04	1.18	0.14	0.22	0.3	0	0	0	0	0	0
7/5/2024 18:19	47402	PENS_T1	6	5	-1	0.95	0.33	-0.62	0	0	0	0	0	0	0	0
7/5/2024 18:21	67201	TEHI_T1	5	7	2	1.06	0.67	-0.39	0	0	0	0	0	0	0	0
7/5/2024 18:21	67203	TEHI_T1	0	0	0	0	0	0	1.7	1.62	2	2	0	1500	1500	0
7/5/2024 18:22	49803	UNIV_T1	1	3	2	0.2	0	-0.2	-1.31	-1.34	0	0	0	0	0	0
7/5/2024 18:25	67201	TEHI_T1	5	7	2	1.06	0.67	-0.39	0	0	0	0	0	0	0	0
7/5/2024 18:25	67203	TEHI_T1	0	0	0	0	0	0	1.7	1.62	2	2	0	1500	1500	0
7/5/2024 18:29	47001	HUGH_T2	3	3	0	7.43	7.4	-0.03	-0.67	-0.67	1	1	0	900	900	0
7/5/2024 18:32	46101	MACI_T2	0	0	0	0	0	0	-0.46	-0.49	1	1	0	1200	1200	0
7/5/2024 18:34	44201	POIN_T1	0	0	0	0	0	0	-3.4	-3.43	2	2	0	2400	2400	0
7/5/2024 18:36	44201	POIN_T1	0	0	0	0	0	0	-1.72	-1.8	1	1	0	1200	1200	0
7/5/2024 18:37	57106	SPHI_T2	3	3	0	0.23	0.6	0.37	0	0	0	0	0	0	0	0
7/5/2024 18:37	55003	NEWP_T2	70	82	12	0.56	0.38	-0.18	-0.06	-0.08	0	0	0	0	0	0
7/5/2024 18:37	57103	SPHI_T2	0	0	0	0	0	0	0.01	-0.01	1	1	0	600	600	0
7/5/2024 18:38	56504	ROCK_T2	26	24	-2	0.42	0.63	0.21	0.66	0.62	0	0	0	0	0	0
7/5/2024 18:38	56501	ROCK_T2	8	6	-2	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
7/5/2024 18:39	41902	REED_T1	157	200	43	0.71	0.73	0.02	0	0	0	0	0	0	0	0
7/5/2024 18:39	44201	POIN_T1	0	0	0	0	0	0	-1.72	-1.8	1	1	0	1200	1200	0
7/5/2024 18:39	41903	REED_T1	0	0	0	0	0	0	0.48	0.48	1	1	0	1200	1200	0
7/5/2024 18:39	63801	HEMP_T1	0	0	0	0	0	0	-0.26	-0.21	1	1	0	900	900	0
7/5/2024 18:39	63804	HEMP_T1	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
7/5/2024 18:39	41901	REED_T1	15	17	2	0.95	1.05	0.1	0	0	0	0	0	0	0	0
7/5/2024 18:40	56501	ROCK_T2	8	6	-2	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
7/5/2024 18:40	56504	ROCK_T2	26	24	-2	0.42	0.63	0.21	0.66	0.62	0	0	0	0	0	0
7/5/2024 18:43	40801	EXCH_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/5/2024 18:43	40802	EXCH_T2	0	1	1	0	0.1	0.1	-0.6	-0.63	0	0	0	0	0	0
7/5/2024 18:44	10901	COOP_T2	0	0	0	0	0	0	0.08	0.05	1	1	0	1200	1200	0
7/5/2024 18:44	40801	EXCH_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/5/2024 18:44	40802	EXCH_T2	0	1	1	0	0.1	0.1	-1.2	-1.26	0	0	0	0	0	0
7/5/2024 18:44	24102	EHAZ_T1	2	1	-1	1	0	-1	0	0	0	0	0	0	0	0
7/5/2024 18:44	24101	EHAZ_T1	3	2	-1	1.03	1.1	0.07	0	0	0	0	0	0	0	0
7/5/2024 18:44	24104	EHAZ_T1	0	7	7	0	0.17	0.17	-1.88	-1.84	1	1	0	1200	1200	0
7/5/2024 18:44	24105	EHAZ_T1	4	4	0	6.28	6.2	-0.08	0	0	0	0	0	0	0	0
7/5/2024 18:48	64902	MILL_T2	0	0	0	0	0	0	-0.21	-0.22	1	1	0	900	900	0
7/5/2024 18:48	64903	MILL_T2	22	25	3	0.26	0.34	0.08	0	0	0	0	0	0	0	0
7/5/2024 18:50	45701	LIND_T2	0	0	0	0	0	0	-1.1	-1.13	0	0	0	0	0	0
7/5/2024 18:50	45702	LIND_T2	8	9	1	1.68	0.74	-0.94	0	0	0	0	0	0	0	0
7/5/2024 18:50	22701	MINO_T1	0	0	0	0	0	0	-0.22	-0.19	1	1	0	600	600	0
7/5/2024 18:52	57401	SPAN_T1	10	17	7	0.73	2.3	1.57	-0.93	-1.11	2	2	0	1500	1500	0
7/5/2024 18:52	57403	SPAN_T1	6	3	-3	0.18	0.2	0.02	0	0	0	0	0	0	0	0
7/5/2024 19:03	13501	MCMI_T1	2	0	-2	9.4	0	-9.4	0.65	0.66	0	0	0	0	0	0
7/5/2024 19:03	13502	MCMI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 19:04	66902	SHIL_T2	0	0	0	0	0	0	-1.41	-1.39	0	0	0	0	0	0
7/5/2024 19:08	67703	WERN_T2	4	4	0	0.85	0	-0.85	-0.02	-0.02	2	2	0	1800	1800	0
7/5/2024 19:19	52504	PROG_T1	9	10	1	0.14	0.33	0.19	0	0	0	0	0	0	0	0
7/5/2024 19:19	52501	PROG_T1	2	2	0	0.15	0.35	0.2	0.97	0.93	1	1	0	300	300	0
7/5/2024 19:20	66902	SHIL_T2	0	1	1	0	0	0	-1.39	-1.44	0	0	0	0	0	0
7/5/2024 19:25	55408	SHER_T2	1	1	0	1.3	1.7	0.4	-0.26	-0.29	1	1	0	1200	1200	0
7/5/2024 19:30	46102	MACI_T1	0	0	0	0	0	0	1.2	1.19	0	0	0	0	0	0
7/5/2024 19:31	64903	MILL_T2	28	0	-28	0.41	0	-0.41	0	0	0	0	0	0	0	0
7/5/2024 19:31	64902	MILL_T2	0	0	0	0	0	0	-0.24	-0.31	1	1	0	900	900	0
7/5/2024 19:35	46102	MACI_T1	0	0	0	0	0	0	1.2	1.19	0	0	0	0	0	0
7/5/2024 19:41	14801	TREI_T2	202	205	3	2.22	1.64	-0.58	0	0	0	0	0	0	0	0
7/5/2024 19:41	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 19:48	22701	MINO_T1	0	0	0	0	0	0	-0.26	-0.26	1	1	0	600	600	0
7/5/2024 19:55	58001	WCAR_T1	0	0	0	0	0	0	-0.7	-0.78	0	0	0	0	0	0
7/5/2024 19:55	58003	WCAR_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
7/5/2024 20:11	40601	PIGR_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/5/2024 20:11	40602	PIGR_T1	1	2	1	0.4	0	-0.4	-0.37	-0.44	0	0	0	0	0	0
7/5/2024 20:11	40603	PIGR_T1	3	8	5	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
7/5/2024 20:17	66902	SHIL_T2	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
7/5/2024 20:17	66901	SHIL_T2	60	172	112	0.15	0.22	0.07	-1.6	-1.59	0	0	0	0	0	0
7/5/2024 20:22	58401	MORO_T1	1	1	0	0.9	0.5	-0.4	-3.16	-3.25	6	6	0	4200	4200	0
7/5/2024 20:27	67001	STHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/5/2024 20:27	67002	STHI_T2	0	0	0	0	0	0	0.93	0.91	1	1	0	600	600	0
7/5/2024 20:36	64903	MILL_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
7/5/2024 20:36	64902	MILL_T2	0	0	0	0	0	0	-0.35	-0.33	1	1	0	900	900	0
7/5/2024 20:56	55405	SHER_T1	0	0	0	0	0	0	0.53	0.42	0	0	0	0	0	0
7/5/2024 21:00	61102	BERK_T5	0	0	0	0	0	0	0.41	0.33	1	1	0	300	300	0
7/5/2024 21:03	50502	MECH_T1	1	1	0	1.1	1.7	0.6	0	0	0	0	0	0	0	0
7/5/2024 21:03	50501	MECH_T1	0	1	1	0	0.5	0.5	-1.12	-1.19	0	0	0	0	0	0
7/5/2024 21:07	46004	BERW_T2	2	1	-1	0.5	1.5	1	0.13	0.11	0	0	0	0	0	0
7/5/2024 21:13	59101	WALK_T2	0	0	0	0	0	0	-0.2	-0.26	1	1	0	600	600	0
7/5/2024 21:14	59101	WALK_T2	0	0	0	0	0	0	-0.2	-0.26	1	1	0	600	600	0
7/5/2024 21:27	16302	ALPA_T2	1	0	-1	0.4	0	-0.4	-0.03	-0.04	0	0	0	0	0	0
7/5/2024 21:29	16302	ALPA_T2	1	0	-1	0.4	0	-0.4	-0.06	-0.08	0	0	0	0	0	0
7/5/2024 21:32	16302	ALPA_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
7/5/2024 21:36	63403	HONY_T2	0	0	0	0	0	0	-0.9	-0.82	0	0	0	0	0	0
7/5/2024 21:36	63402	HONY_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
7/5/2024 21:38	41901	REED_T1	9	10	1	1.39	1.36	-0.03	0	0	0	0	0	0	0	0
7/5/2024 21:38	41902	REED_T1	3	4	1	0.17	0	-0.17	1.3	1.24	2	2	0	1800	1800	0
7/5/2024 21:38	60803	BUCK_T1	13	13	0	0.32	0.43	0.11	-0.18	-0.22	1	1	0	600	600	0
7/5/2024 21:44	60803	BUCK_T1	13	13	0	0.32	0.43	0.11	-0.18	-0.22	1	1	0	600	600	0
7/5/2024 21:46	60801	BUCK_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/5/2024 21:46	46004	BERW_T2	0	2	2	0	0	0	0.08	0.08	0	0	0	0	0	0
7/5/2024 21:46	60803	BUCK_T1	13	15	2	0.35	0.53	0.18	-0.18	-0.22	1	1	0	600	600	0
7/5/2024 21:47	60801	BUCK_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/5/2024 21:47	60803	BUCK_T1	13	15	2	0.35	0.53	0.18	-0.18	-0.22	1	1	0	600	600	0
7/5/2024 21:50	65004	NEFF_T2	0	0	0	0	0	0	-0.27	-0.29	1	1	0	600	600	0
7/5/2024 21:53	55101	WERT_T1	0	0	0	0	0	0	-4.61	-4.65	8	8	0	6600	6600	0
7/5/2024 21:53	51004	NHAR_T1	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
7/5/2024 21:53	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 21:53	51003	NHAR_T1	9	8	-1	0.34	0.15	-0.19	-1.52	-1.54	1	1	0	1200	1200	0
7/5/2024 21:53	51002	NHAR_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/5/2024 21:56	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 21:56	55101	WERT_T1	0	0	0	0	0	0	-2.31	-2.33	4	4	0	3300	3300	0
7/5/2024 22:03	55105	WERT_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/5/2024 22:03	55101	WERT_T1	0	0	0	0	0	0	-2.31	-2.33	4	4	0	3300	3300	0
7/5/2024 22:05	55101	WERT_T1	0	0	0	0	0	0	-2.31	-2.33	4	4	0	3300	3300	0
7/5/2024 22:05	55105	WERT_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/5/2024 22:06	63304	GREE_T1	0	8	8	0	0.15	0.15	-2.17	-2.24	0	0	0	0	0	0
7/5/2024 22:06	22602	KIMB_T1	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
7/5/2024 22:06	63305	GREE_T1	3	13	10	0.33	0.33	0	0	0	0	0	0	0	0	0
7/5/2024 22:15	61701	ELIZ_T1	1	1	0	1.1	1.9	0.8	1.19	1.15	0	0	0	0	0	0
7/5/2024 22:20	12301	LANA_T2	0	0	0	0	0	0	-0.78	-0.8	1	1	0	1200	1200	0
7/5/2024 22:22	21206	ECAR_T2	1	1	0	8	7.9	-0.1	0.22	0.22	0	0	0	0	0	0
7/5/2024 22:22	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:23	25603	ARRO_T1	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
7/5/2024 22:23	61702	ELIZ_T2	0	0	0	0	0	0	-1.25	-1.26	2	2	0	1500	1500	0
7/5/2024 22:26	64204	KINZ_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/5/2024 22:26	64201	KINZ_T1	0	0	0	0	0	0	-0.24	-0.28	3	3	0	1500	1500	0
7/5/2024 22:26	64202	KINZ_T1	1	1	0	1.1	0.1	-1	0	0	0	0	0	0	0	0
7/5/2024 22:27	66701	STRA_T1	0	1	1	0	0	0	0.77	0.69	1	1	0	600	600	0
7/5/2024 22:27	61701	ELIZ_T1	1	1	0	1.1	1.9	0.8	1.15	0.83	0	0	0	0	0	0
7/5/2024 22:27	66703	STRA_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/5/2024 22:27	60803	BUCK_T1	15	15	0	0.53	0.6	0.07	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/5/2024 22:27	60801	BUCK_T1	3	5	2	0.1	0.16	0.06	0.17	0.12	0	0	0	0	0	0
7/5/2024 22:27	24902	WHHA_T1	0	2	2	0	0	0	0.41	0.4	0	0	0	0	0	0
7/5/2024 22:28	61505	EPET_T1	0	0	0	0	0	0	1.48	1.46	0	0	0	0	0	0
7/5/2024 22:28	66703	STRA_T1	0	4	4	0	0.1	0.1	-0.56	0.51	0	0	0	0	0	0
7/5/2024 22:28	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:29	20401	ASHF_T2	1	0	-1	0.2	0	-0.2	-0.27	-0.26	1	1	0	600	600	0
7/5/2024 22:29	13903	SEID_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/5/2024 22:29	13904	SEID_T1	4	7	3	0.38	0	-0.38	-0.47	-0.47	0	0	0	0	0	0
7/5/2024 22:29	20402	ASHF_T2	1	7	6	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/5/2024 22:29	66504	SMAN_T2	1	1	0	0.1	0.2	0.1	-0.44	-0.48	0	0	0	0	0	0
7/5/2024 22:29	64101	REFR_T1	4	6	2	0.93	0.63	-0.3	0.15	0.12	0	0	0	0	0	0
7/5/2024 22:29	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/5/2024 22:29	66505	SMAN_T2	4	2	-2	0.33	0.1	-0.23	0	0	0	0	0	0	0	0
7/5/2024 22:30	65001	NEFF_T2	0	0	0	0	0	0	-0.47	-0.43	1	1	0	1200	1200	0
7/5/2024 22:30	64902	MILL_T2	0	0	0	0	0	0	-0.96	-1.02	2	2	0	1800	1800	0
7/5/2024 22:30	67605	WARW_T1	0	0	0	0	0	0	-0.79	-0.83	0	0	0	0	0	0
7/5/2024 22:30	64903	MILL_T2	15	1	-14	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/5/2024 22:30	60201	ATGL_T2	29	0	-29	0.2	0	-0.2	0.76	0.69	1	1	0	300	300	0
7/5/2024 22:30	22701	MINO_T1	0	0	0	0	0	0	-0.38	-0.31	1	1	0	600	600	0
7/5/2024 22:30	64101	REFR_T1	6	4	-2	0.85	0.3	-0.55	0.15	0.12	0	0	0	0	0	0
7/5/2024 22:30	12302	LANA_T2	0	0	0	0	0	0	-1.96	-1.95	3	3	0	2700	2700	0
7/5/2024 22:31	66504	SMAN_T2	1	1	0	0.2	0.2	0	-0.88	-0.95	0	0	0	0	0	0
7/5/2024 22:31	67203	TEHI_T1	0	0	0	0	0	0	2.06	2.04	1	1	0	900	900	0
7/5/2024 22:31	60502	NMAN_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
7/5/2024 22:31	60201	ATGL_T2	29	0	-29	0.2	0	-0.2	0.76	0.69	1	1	0	300	300	0
7/5/2024 22:31	64101	REFR_T1	6	4	-2	0.85	0.3	-0.55	0.15	0.12	0	0	0	0	0	0
7/5/2024 22:31	66505	SMAN_T2	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/5/2024 22:31	67602	WARW_T2	0	0	0	0	0	0	0.24	0.2	2	2	0	1500	1500	0
7/5/2024 22:31	64201	KINZ_T1	0	0	0	0	0	0	-0.24	-0.28	3	3	0	1500	1500	0
7/5/2024 22:31	64202	KINZ_T1	1	1	0	0.1	2.4	2.3	0	0	0	0	0	0	0	0
7/5/2024 22:31	64302	LINC_T2	21	17	-4	1.07	0	-1.07	1.57	1.61	0	0	0	0	0	0
7/5/2024 22:31	12701	MACU_T1	0	0	0	0	0	0	-0.8	-0.8	1	1	0	1200	1200	0
7/5/2024 22:31	64304	LINC_T2	4	4	0	1.03	0	-1.03	0	0	0	0	0	0	0	0
7/5/2024 22:31	61303	EARL_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/5/2024 22:31	61301	EARL_T1	0	0	0	0	0	0	-0.57	-0.59	1	1	0	900	900	0
7/5/2024 22:31	60501	NMAN_T2	3	3	0	4.03	4.43	0.4	0	0	0	0	0	0	0	0
7/5/2024 22:31	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
7/5/2024 22:32	29402	BELT_T1	82	92	10	0.84	1.01	0.17	0	0	0	0	0	0	0	0
7/5/2024 22:32	64305	LINC_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/5/2024 22:32	64101	REFR_T1	6	4	-2	0.85	0.3	-0.55	0.15	0.12	0	0	0	0	0	0
7/5/2024 22:32	20402	ASHF_T2	6	1	-5	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/5/2024 22:32	66504	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/5/2024 22:32	25503	MADI_T1	5	15	10	0.2	0.18	-0.02	-0.55	-0.57	0	0	0	0	0	0
7/5/2024 22:32	64301	LINC_T1	0	0	0	0	0	0	-0.8	-0.81	1	1	0	600	600	0
7/5/2024 22:32	13503	MCMI_T2	16	36	20	0.13	0.26	0.13	-0.55	-0.56	0	0	0	0	0	0
7/5/2024 22:32	61102	BERK_T5	0	0	0	0	0	0	-0.01	-0.08	1	1	0	300	300	0
7/5/2024 22:32	20403	ASHF_T2	0	0	0	0	0	0	0.93	0.9	0	0	0	0	0	0
7/5/2024 22:32	24801	VALM_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
7/5/2024 22:32	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:32	67602	WARW_T2	0	0	0	0	0	0	0.47	0.4	4	4	0	3000	3000	0
7/5/2024 22:32	66703	STRA_T1	2	3	1	0.1	0.25	0.15	-0.56	0.51	0	0	0	0	0	0
7/5/2024 22:32	25402	LAHA_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
7/5/2024 22:32	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:32	66505	SMAN_T2	2	1	-1	0.1	0.2	0.1	0.14	0.09	3	3	0	2100	2100	0
7/5/2024 22:32	67603	WARW_T1	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
7/5/2024 22:33	64101	REFR_T1	6	4	-2	0.85	0.3	-0.55	0.15	0.12	0	0	0	0	0	0
7/5/2024 22:33	56802	BENV_T2	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
7/5/2024 22:33	66701	STRA_T1	0	1	1	0	0	0	0.77	0.69	1	1	0	600	600	0
7/5/2024 22:33	20601	GRWO_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
7/5/2024 22:33	13501	MCMI_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
7/5/2024 22:33	62102	ELAN_T1	0	0	0	0	0	0	0.98	0.91	0	0	0	0	0	0
7/5/2024 22:33	65901	SAKR_T2	1	1	0	6.3	6.7	0.4	-0.66	-0.66	2	2	0	1500	1500	0
7/5/2024 22:33	67804	WLAN_T1	2	9	7	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
7/5/2024 22:33	66703	STRA_T1	2	3	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
7/5/2024 22:33	64801	MONE_T2	0	0	0	0	0	0	0.14	-0.01	0	0	0	0	0	0
7/5/2024 22:33	64802	MONE_T2	25	0	-25	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/5/2024 22:33	61102	BERK_T5	0	0	0	0	0	0	-0.03	-0.24	3	3	0	900	900	0
7/5/2024 22:33	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:33	63401	HONY_T1	0	0	0	0	0	0	-0.38	-0.37	1	1	0	600	600	0
7/5/2024 22:33	29402	BELT_T1	82	92	10	0.84	1.01	0.17	0	0	0	0	0	0	0	0
7/5/2024 22:33	60501	NMAN_T2	3	3	0	4.03	4.43	0.4	0	0	0	0	0	0	0	0
7/5/2024 22:33	67801	WLAN_T1	4	74	70	0.48	0.4	-0.08	0.39	0.39	0	0	0	0	0	0
7/5/2024 22:33	60502	NMAN_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
7/5/2024 22:33	13503	MCMI_T2	16	36	20	0.13	0.26	0.13	-0.55	-0.56	0	0	0	0	0	0
7/5/2024 22:33	21206	ECAR_T2	1	1	0	7.9	8.2	0.3	0.22	0.22	0	0	0	0	0	0
7/5/2024 22:34	12801	MICK_T1	0	0	0	0	0	0	-0.72	-0.74	1	1	0	600	600	0
7/5/2024 22:34	46102	MACI_T1	0	0	0	0	0	0	1.12	1.12	0	0	0	0	0	0
7/5/2024 22:34	61701	ELIZ_T1	1	1	0	1.1	2.1	1	0	0	0	0	0	0	0	0
7/5/2024 22:34	24901	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:34	57401	SPAN_T1	0	0	0	0	0	0	-0.7	-0.7	1	1	0	600	600	0
7/5/2024 22:34	24902	WHHA_T1	1	1	0	1.1	0	-1.1	0.41	0.4	0	0	0	0	0	0
7/5/2024 22:34	22903	HARW_T1	12	22	10	0.67	0.93	0.26	0	0	0	0	0	0	0	0
7/5/2024 22:34	22901	HARW_T1	7	0	-7	0.37	0	-0.37	-0.37	-0.31	1	1	0	1200	1200	0
7/5/2024 22:34	56801	BENV_T1	4	8	4	0.55	0.81	0.26	-0.2	-0.2	1	1	0	600	600	0
7/5/2024 22:34	11104	EGYP_T1	1	0	-1	0.3	0	-0.3	0.77	0.81	0	0	0	0	0	0
7/5/2024 22:34	57403	SPAN_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
7/5/2024 22:34	67605	WARW_T1	0	0	0	0	0	0	-0.79	-0.83	0	0	0	0	0	0
7/5/2024 22:34	61703	ELIZ_T1	0	0	0	0	0	0	-2.35	-2.37	2	2	0	2100	2100	0
7/5/2024 22:34	22905	HARW_T1	5	0	-5	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/5/2024 22:34	10901	COOP_T2	0	0	0	0	0	0	-0.18	-0.19	1	1	0	1200	1200	0
7/5/2024 22:34	56803	BENV_T1	3	0	-3	1	0	-1	0	0	0	0	0	0	0	0
7/5/2024 22:34	11102	EGYP_T1	3	1	-2	0.93	0.8	-0.13	0	0	0	0	0	0	0	0
7/5/2024 22:35	66505	SMAN_T2	2	1	-1	0.1	0.2	0.1	0.28	0.19	6	6	0	4200	4200	0
7/5/2024 22:35	64301	LINC_T1	0	0	0	0	0	0	-0.8	-0.81	1	1	0	600	600	0
7/5/2024 22:35	24901	WHHA_T1	0	1	1	0	0	0	-0.37	0.83	0	0	0	0	0	0
7/5/2024 22:35	52403	GRPA_T2	39	13	-26	0.72	0.98	0.26	-0.3	-0.35	0	0	0	0	0	0
7/5/2024 22:35	66701	STRA_T1	0	1	1	0	0	0	0.77	0.69	1	1	0	600	600	0
7/5/2024 22:35	51401	LYKE_T1	0	0	0	0	0	0	0.42	0.38	0	0	0	0	0	0
7/5/2024 22:35	24103	EHAZ_T1	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
7/5/2024 22:35	64305	LINC_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/5/2024 22:35	24105	EHAZ_T1	4	4	0	5.85	5.83	-0.02	0	0	0	0	0	0	0	0
7/5/2024 22:35	52004	LING_T2	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
7/5/2024 22:35	66504	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/5/2024 22:35	24101	EHAZ_T1	16	22	6	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
7/5/2024 22:35	66703	STRA_T1	2	3	1	0.1	0.25	0.15	-0.56	0.51	0	0	0	0	0	0
7/5/2024 22:35	23401	HONE_T2	1	4	3	1.2	0.1	-1.1	-0.03	-0.06	0	0	0	0	0	0
7/5/2024 22:35	60501	NMAN_T2	3	3	0	4.03	4.43	0.4	0	0	0	0	0	0	0	0
7/5/2024 22:35	60502	NMAN_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
7/5/2024 22:35	56501	ROCK_T2	11	136	125	0.2	0.3	0.1	-2.37	-2.43	0	0	0	0	0	0
7/5/2024 22:35	67203	TEHI_T1	0	0	0	0	0	0	2.06	2.04	1	1	0	900	900	0
7/5/2024 22:35	56802	BENV_T2	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
7/5/2024 22:35	24102	EHAZ_T1	1	3	2	0.8	0.47	-0.33	0	0	0	0	0	0	0	0
7/5/2024 22:35	52402	GRPA_T2	3	4	1	1.1	1.25	0.15	0	0	0	0	0	0	0	0
7/5/2024 22:35	67602	WARW_T2	0	0	0	0	0	0	0.24	0.2	2	2	0	1500	1500	0
7/5/2024 22:35	52002	LING_T2	0	0	0	0	0	0	-0.13	-0.19	0	0	0	0	0	0
7/5/2024 22:35	60201	ATGL_T2	29	0	-29	0.2	0	-0.2	0.76	0.69	1	1	0	300	300	0
7/5/2024 22:35	24902	WHHA_T1	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
7/5/2024 22:36	24101	EHAZ_T1	16	22	6	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
7/5/2024 22:36	56803	BENV_T1	3	0	-3	1	0	-1	0	0	0	0	0	0	0	0
7/5/2024 22:36	61703	ELIZ_T1	0	0	0	0	0	0	-2.37	-2.38	2	2	0	2100	2100	0
7/5/2024 22:36	13904	SEID_T1	6	2	-4	0.3	0.2	-0.1	-0.47	-0.46	0	0	0	0	0	0
7/5/2024 22:36	52401	GRPA_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
7/5/2024 22:36	61701	ELIZ_T1	1	1	0	1.1	2.1	1	0	0	0	0	0	0	0	0
7/5/2024 22:36	20402	ASHF_T2	6	1	-5	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/5/2024 22:36	42902	MIDD_T2	3	0	-3	0.47	0	-0.47	-0.97	-0.97	1	1	0	600	600	0
7/5/2024 22:36	56801	BENV_T1	4	8	4	0.55	0.81	0.26	-0.2	-0.2	1	1	0	600	600	0
7/5/2024 22:36	61102	BERK_T5	0	0	0	0	0	0	-0.08	-0.17	1	1	0	300	300	0
7/5/2024 22:36	42903	MIDD_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
7/5/2024 22:36	65205	PRIN_T1	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
7/5/2024 22:36	63401	HONY_T1	0	0	0	0	0	0	-0.37	-0.18	1	1	0	600	600	0
7/5/2024 22:36	13903	SEID_T1	1	3	2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/5/2024 22:36	50701	SMEC_T1	0	0	0	0	0	0	-0.11	-0.13	1	1	0	900	900	0
7/5/2024 22:36	52402	GRPA_T2	3	4	1	1.1	1.25	0.15	0	0	0	0	0	0	0	0
7/5/2024 22:36	52403	GRPA_T2	39	13	-26	0.72	0.98	0.26	0	0	0	0	0	0	0	0
7/5/2024 22:36	20403	ASHF_T2	0	0	0	0	0	0	0.93	0.9	0	0	0	0	0	0
7/5/2024 22:36	52004	LING_T2	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
7/5/2024 22:36	24102	EHAZ_T1	1	3	2	0.8	0.47	-0.33	0.17	0.17	0	0	0	0	0	0
7/5/2024 22:36	57403	SPAN_T1	1	0	-1	1.7	0	-1.7	0.55	0.51	0	0	0	0	0	0
7/5/2024 22:36	57401	SPAN_T1	0	0	0	0	0	0	-0.7	-0.7	1	1	0	600	600	0
7/5/2024 22:36	64101	REFR_T1	6	4	-2	0.85	0.3	-0.55	0.12	0.02	0	0	0	0	0	0
7/5/2024 22:36	24105	EHAZ_T1	4	4	0	5.85	5.83	-0.02	0	0	0	0	0	0	0	0
7/5/2024 22:36	14204	EALL_T2	0	6	6	0	0.37	0.37	0.51	0.54	0	0	0	0	0	0
7/5/2024 22:37	63804	HEMP_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
7/5/2024 22:37	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:37	21203	ECAR_T1	1	0	-1	0.2	0	-0.2	-0.22	-0.22	0	0	0	0	0	0
7/5/2024 22:37	47401	PENS_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
7/5/2024 22:37	11507	FREE_T2	0	0	0	0	0	0	0.4	0.36	1	1	0	600	600	0
7/5/2024 22:37	23401	HONE_T2	1	4	3	1.2	0.1	-1.1	-0.12	-0.56	0	0	0	0	0	0
7/5/2024 22:37	29402	BELT_T1	82	92	10	0.84	1.01	0.17	0	0	0	0	0	0	0	0
7/5/2024 22:37	67602	WARW_T2	0	0	0	0	0	0	0.2	0.15	2	2	0	1500	1500	0
7/5/2024 22:37	58706	ROSE_T2	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
7/5/2024 22:37	56801	BENV_T1	4	8	4	0.55	0.81	0.26	-0.2	-0.22	1	1	0	600	600	0
7/5/2024 22:37	56803	BENV_T1	3	0	-3	1	0	-1	0	0	0	0	0	0	0	0
7/5/2024 22:37	61701	ELIZ_T1	1	1	0	1.1	2.1	1	0	0	0	0	0	0	0	0
7/5/2024 22:37	64101	REFR_T1	6	4	-2	0.85	0.3	-0.55	0.12	0.02	0	0	0	0	0	0
7/5/2024 22:37	13904	SEID_T1	6	2	-4	0.3	0.2	-0.1	-0.47	-0.46	0	0	0	0	0	0
7/5/2024 22:37	57401	SPAN_T1	0	0	0	0	0	0	-0.7	-0.78	1	1	0	600	600	0
7/5/2024 22:37	63801	HEMP_T1	0	0	0	0	0	0	-1.13	-1.1	2	2	0	1800	1800	0
7/5/2024 22:37	57403	SPAN_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
7/5/2024 22:37	10705	CATA_T2	0	0	0	0	0	0	-1.27	-1.34	1	1	0	900	900	0
7/5/2024 22:37	61102	BERK_T5	0	0	0	0	0	0	-0.16	-0.34	2	2	0	600	600	0
7/5/2024 22:37	56501	ROCK_T2	11	136	125	0.2	0.3	0.1	-2.43	-2.48	0	0	0	0	0	0
7/5/2024 22:37	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/5/2024 22:37	61703	ELIZ_T1	0	0	0	0	0	0	-2.37	-2.38	2	2	0	2100	2100	0
7/5/2024 22:37	58701	ROSE_T2	0	0	0	0	0	0	-1.59	-1.6	1	1	0	600	600	0
7/5/2024 22:37	12701	MACU_T1	0	0	0	0	0	0	-1.6	-1.61	2	2	0	2400	2400	0
7/5/2024 22:37	21201	ECAR_T1	2	2	0	1.1	0.3	-0.8	0	0	0	0	0	0	0	0
7/5/2024 22:37	13903	SEID_T1	1	3	2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/5/2024 22:37	66703	STRA_T1	2	3	1	0.1	0.25	0.15	0.51	0.48	0	0	0	0	0	0
7/5/2024 22:37	10701	CATA_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/5/2024 22:38	56504	ROCK_T2	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
7/5/2024 22:38	56802	BENV_T2	0	0	0	0	0	0	-0.84	-0.87	0	0	0	0	0	0
7/5/2024 22:38	67203	TEHI_T1	0	0	0	0	0	0	2.04	2.05	1	1	0	900	900	0
7/5/2024 22:38	67602	WARW_T2	0	0	0	0	0	0	0.2	0.15	2	2	0	1500	1500	0
7/5/2024 22:38	11104	EGYP_T1	1	0	-1	0.3	0	-0.3	0.81	0.75	0	0	0	0	0	0
7/5/2024 22:38	52501	PROG_T1	0	0	0	0	0	0	0.65	0.69	1	1	0	300	300	0
7/5/2024 22:38	61701	ELIZ_T1	1	1	0	1.1	2.1	1	0.83	1.06	0	0	0	0	0	0
7/5/2024 22:38	57403	SPAN_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
7/5/2024 22:38	56501	ROCK_T2	11	136	125	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/5/2024 22:38	40101	HUNT_T2	1	2	1	0.2	0.2	0	-0.95	-0.95	0	0	0	0	0	0
7/5/2024 22:38	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/5/2024 22:38	11404	FARM_T1	1	1	0	0.8	1.7	0.9	0	0	0	0	0	0	0	0
7/5/2024 22:38	57401	SPAN_T1	0	0	0	0	0	0	-0.7	-0.78	1	1	0	600	600	0
7/5/2024 22:38	11102	EGYP_T1	3	1	-2	0.93	0.8	-0.13	0	0	0	0	0	0	0	0
7/5/2024 22:38	65901	SAKR_T2	1	1	0	6.3	6.7	0.4	-0.66	-0.72	2	2	0	1500	1500	0
7/5/2024 22:38	15004	FREE_T1	0	0	0	0	0	0	-1.75	-1.67	2	2	0	2100	2100	0
7/5/2024 22:38	56801	BENV_T1	4	8	4	0.55	0.81	0.26	-0.2	-0.22	1	1	0	600	600	0
7/5/2024 22:38	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:38	56803	BENV_T1	3	0	-3	1	0	-1	0	0	0	0	0	0	0	0
7/5/2024 22:38	11405	FARM_T1	0	0	0	0	0	0	0.11	0.14	1	1	0	1200	1200	0
7/5/2024 22:38	67605	WARW_T1	0	0	0	0	0	0	-0.83	-0.86	0	0	0	0	0	0
7/5/2024 22:39	66703	STRA_T1	2	3	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
7/5/2024 22:39	44301	BEAV_T2	3	2	-1	0.87	0.35	-0.52	0.33	0.27	1	1	0	600	600	0
7/5/2024 22:39	50701	SMEC_T1	0	0	0	0	0	0	-0.13	-0.17	1	1	0	900	900	0
7/5/2024 22:39	56504	ROCK_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
7/5/2024 22:39	66701	STRA_T1	0	1	1	0	0	0	0.69	0.72	1	1	0	600	600	0
7/5/2024 22:39	53903	HALI_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
7/5/2024 22:39	22903	HARW_T1	12	22	10	0.67	0.93	0.26	0	0	0	0	0	0	0	0
7/5/2024 22:39	53902	HALI_T2	1	1	0	3.8	4	0.2	0	0	0	0	0	0	0	0
7/5/2024 22:39	46101	MACI_T2	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
7/5/2024 22:39	67201	TEHI_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
7/5/2024 22:39	22905	HARW_T1	5	0	-5	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/5/2024 22:39	56802	BENV_T2	0	0	0	0	0	0	-1.67	-1.73	0	0	0	0	0	0
7/5/2024 22:39	61703	ELIZ_T1	0	0	0	0	0	0	-4.74	-4.77	4	4	0	4200	4200	0
7/5/2024 22:39	61701	ELIZ_T1	1	1	0	1.1	2.1	1	0	0	0	0	0	0	0	0
7/5/2024 22:39	59101	WALK_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
7/5/2024 22:39	22901	HARW_T1	7	0	-7	0.37	0	-0.37	-0.31	-0.32	1	1	0	1200	1200	0
7/5/2024 22:39	11804	FRAN_T1	94	78	-16	0.58	0.55	-0.03	0.58	0.53	0	0	0	0	0	0
7/5/2024 22:39	13503	MCMI_T2	16	36	20	0.13	0.26	0.13	-0.56	-0.56	0	0	0	0	0	0
7/5/2024 22:39	46004	BERW_T2	0	1	1	0	0	0	0.03	0.04	0	0	0	0	0	0
7/5/2024 22:39	55408	SHER_T2	1	1	0	2.4	2.7	0.3	-0.55	-0.57	1	1	0	1200	1200	0
7/5/2024 22:39	56501	ROCK_T2	11	136	125	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/5/2024 22:39	67602	WARW_T2	0	0	0	0	0	0	0.2	0.15	2	2	0	1500	1500	0
7/5/2024 22:39	60201	ATGL_T2	29	0	-29	0.2	0	-0.2	1.38	1.46	2	2	0	600	600	0
7/5/2024 22:39	47101	MARL_T1	23	37	14	0.67	0.49	-0.18	-0.91	-0.88	1	1	0	600	600	0
7/5/2024 22:39	67703	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	2	2	0	1800	1800	0
7/5/2024 22:39	25603	ARRO_T1	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
7/5/2024 22:39	40101	HUNT_T2	1	2	1	0.2	0.2	0	-0.95	-0.95	0	0	0	0	0	0
7/5/2024 22:40	56504	ROCK_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
7/5/2024 22:40	60502	NMAN_T2	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
7/5/2024 22:40	14801	TREI_T2	150	88	-62	0.88	0.53	-0.35	0	0	0	0	0	0	0	0
7/5/2024 22:40	57106	SPHI_T2	3	3	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
7/5/2024 22:40	57104	SPHI_T2	0	0	0	0	0	0	-0.98	-1.03	1	1	0	900	900	0
7/5/2024 22:40	47101	MARL_T1	23	37	14	0.67	0.49	-0.18	-0.91	-0.88	1	1	0	600	600	0
7/5/2024 22:40	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:40	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:40	20402	ASHF_T2	6	1	-5	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/5/2024 22:40	56501	ROCK_T2	11	136	125	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/5/2024 22:40	66901	SHIL_T2	74	69	-5	0.39	0.28	-0.11	0	0	0	0	0	0	0	0
7/5/2024 22:40	64101	REFR_T1	6	4	-2	0.85	0.3	-0.55	0.24	0.05	0	0	0	0	0	0
7/5/2024 22:40	20403	ASHF_T2	0	0	0	0	0	0	1.81	1.64	0	0	0	0	0	0
7/5/2024 22:40	61102	BERK_T5	0	0	0	0	0	0	-0.08	-0.17	1	1	0	300	300	0
7/5/2024 22:40	66903	SHIL_T2	13	1	-12	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
7/5/2024 22:40	60501	NMAN_T2	3	3	0	4.03	4.43	0.4	0	0	0	0	0	0	0	0
7/5/2024 22:40	66902	SHIL_T2	78	55	-23	0.2	0.17	-0.03	-1.71	-1.72	0	0	0	0	0	0
7/5/2024 22:40	66703	STRA_T1	2	3	1	0.1	0.25	0.15	0.51	0.48	0	0	0	0	0	0
7/5/2024 22:40	67602	WARW_T2	0	0	0	0	0	0	0.2	0.15	2	2	0	1500	1500	0
7/5/2024 22:41	56501	ROCK_T2	11	136	125	0.2	0.3	0.1	-7.3	-7.45	0	0	0	0	0	0
7/5/2024 22:41	41901	REED_T1	1	6	5	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
7/5/2024 22:41	41902	REED_T1	100	30	-70	0.58	0.42	-0.16	0	0	0	0	0	0	0	0
7/5/2024 22:41	63401	HONY_T1	0	0	0	0	0	0	-0.37	-0.18	1	1	0	600	600	0
7/5/2024 22:41	57403	SPAN_T1	1	0	-1	1.7	0	-1.7	0.51	0.48	0	0	0	0	0	0
7/5/2024 22:41	46206	DANV_T2	1	2	1	0.6	0.2	-0.4	0.58	0.6	2	2	0	2100	2100	0
7/5/2024 22:41	67605	WARW_T1	0	0	0	0	0	0	-0.83	-0.86	0	0	0	0	0	0
7/5/2024 22:41	41903	REED_T1	0	0	0	0	0	0	1.2	1.19	0	0	0	0	0	0
7/5/2024 22:41	51003	NHAR_T1	10	10	0	1.26	0.9	-0.36	0	0	0	0	0	0	0	0
7/5/2024 22:41	46203	DANV_T2	6	6	0	0.55	0.48	-0.07	-1.08	-1.08	0	0	0	0	0	0
7/5/2024 22:41	64101	REFR_T1	6	4	-2	0.85	0.3	-0.55	0.12	0.02	0	0	0	0	0	0
7/5/2024 22:41	42701	AUGU_T1	28	14	-14	0.42	0.36	-0.06	0	0	2	2	0	1800	1800	0
7/5/2024 22:41	51004	NHAR_T1	1	1	0	7.4	7	-0.4	-1.17	-1.17	0	0	0	0	0	0
7/5/2024 22:41	20601	GRWO_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
7/5/2024 22:42	64101	REFR_T1	6	4	-2	0.85	0.3	-0.55	0.12	0.02	0	0	0	0	0	0
7/5/2024 22:42	47001	HUGH_T2	3	3	0	6.93	5.8	-1.13	-0.24	-0.27	0	0	0	0	0	0
7/5/2024 22:42	57403	SPAN_T1	1	0	-1	1.7	0	-1.7	0.51	0.48	0	0	0	0	0	0
7/5/2024 22:42	52002	LING_T2	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
7/5/2024 22:42	40101	HUNT_T2	1	2	1	0.2	0.2	0	-1.91	-1.89	0	0	0	0	0	0
7/5/2024 22:42	47002	HUGH_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/5/2024 22:42	63401	HONY_T1	0	0	0	0	0	0	-0.37	-0.18	1	1	0	600	600	0
7/5/2024 22:42	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:42	56501	ROCK_T2	11	136	125	0.2	0.3	0.1	-7.3	-7.45	0	0	0	0	0	0
7/5/2024 22:43	56501	ROCK_T2	11	136	125	0.2	0.3	0.1	-4.87	-4.97	0	0	0	0	0	0
7/5/2024 22:43	46302	ROHR_T1	7	7	0	2.37	4.04	1.67	0.43	0.42	0	0	0	0	0	0
7/5/2024 22:43	51003	NHAR_T1	10	10	0	1.26	0.9	-0.36	0	0	0	0	0	0	0	0
7/5/2024 22:43	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/5/2024 22:43	20601	GRWO_T2	0	0	0	0	0	0	0.03	-0.04	0	0	0	0	0	0
7/5/2024 22:43	25603	ARRO_T1	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
7/5/2024 22:43	46301	ROHR_T1	115	102	-13	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
7/5/2024 22:43	52002	LING_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
7/5/2024 22:43	24901	WHHA_T1	0	1	1	0	0	0	0.83	0.81	0	0	0	0	0	0
7/5/2024 22:43	24902	WHHA_T1	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
7/5/2024 22:43	51004	NHAR_T1	1	1	0	7.4	7	-0.4	-1.17	-1.17	0	0	0	0	0	0
7/5/2024 22:44	20603	GRWO_T2	0	0	0	0	0	0	-0.34	-0.34	1	1	0	900	900	0
7/5/2024 22:44	58706	ROSE_T2	1	1	0	1.4	1.2	-0.2	1.08	1.1	1	1	0	600	600	0
7/5/2024 22:44	12701	MACU_T1	0	0	0	0	0	0	-0.8	-0.8	1	1	0	1200	1200	0
7/5/2024 22:44	67602	WARW_T2	0	0	0	0	0	0	0.2	0.15	2	2	0	1500	1500	0
7/5/2024 22:44	64203	KINZ_T1	0	0	0	0	0	0	0.09	0.09	1	1	0	600	600	0
7/5/2024 22:44	44301	BEAV_T2	3	2	-1	0.87	0.35	-0.52	0.33	0.27	1	1	0	600	600	0
7/5/2024 22:44	57303	MOAL_T2	1	1	0	7.6	8	0.4	0	0	0	0	0	0	0	0
7/5/2024 22:44	56501	ROCK_T2	11	136	125	0.2	0.3	0.1	-2.43	-2.48	0	0	0	0	0	0
7/5/2024 22:44	64202	KINZ_T1	1	1	0	0.1	2.4	2.3	0	0	0	0	0	0	0	0
7/5/2024 22:44	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
7/5/2024 22:44	57304	MOAL_T2	1	0	-1	0.1	0	-0.1	0.01	0.05	0	0	0	0	0	0
7/5/2024 22:44	67605	WARW_T1	0	0	0	0	0	0	-0.83	-0.86	0	0	0	0	0	0
7/5/2024 22:45	47101	MARL_T1	18	39	21	0.49	0.56	0.07	-0.91	-0.88	1	1	0	600	600	0
7/5/2024 22:45	20402	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/5/2024 22:45	20403	ASHF_T2	0	0	0	0	0	0	0.9	0.82	0	0	0	0	0	0
7/5/2024 22:45	63804	HEMP_T1	1	1	0	6.5	6.3	-0.2	0.16	0.13	0	0	0	0	0	0
7/5/2024 22:46	46001	BERW_T1	0	0	0	0	0	0	2.32	2.32	0	0	0	0	0	0
7/5/2024 22:46	40802	EXCH_T2	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
7/5/2024 22:46	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:46	56501	ROCK_T2	64	256	192	0.2	0.4	0.2	-2.43	-2.48	0	0	0	0	0	0
7/5/2024 22:46	14801	TREI_T2	81	84	3	0.57	0.52	-0.05	0	0	0	0	0	0	0	0
7/5/2024 22:46	57401	SPAN_T1	0	0	0	0	0	0	-0.7	-0.78	1	1	0	600	600	0
7/5/2024 22:47	56504	ROCK_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
7/5/2024 22:47	65802	RTWN_T2	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
7/5/2024 22:47	65803	RTWN_T2	7	16	9	0.31	0.34	0.03	0	0	0	0	0	0	0	0
7/5/2024 22:47	40601	PIGR_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
7/5/2024 22:47	42902	MIDD_T2	0	0	0	0	0	0	-0.97	-0.97	1	1	0	600	600	0
7/5/2024 22:47	56501	ROCK_T2	64	256	192	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/5/2024 22:47	67605	WARW_T1	0	0	0	0	0	0	-0.83	-0.86	0	0	0	0	0	0
7/5/2024 22:47	42903	MIDD_T2	2	2	0	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
7/5/2024 22:48	47101	MARL_T1	18	39	21	0.49	0.56	0.07	-0.91	-0.88	1	1	0	600	600	0
7/5/2024 22:48	52002	LING_T2	0	1	1	0	0.2	0.2	-0.19	-0.21	0	0	0	0	0	0
7/5/2024 22:48	57401	SPAN_T1	0	0	0	0	0	0	-0.7	-0.78	1	1	0	600	600	0
7/5/2024 22:48	55101	WERT_T1	0	0	0	0	0	0	-2.45	-2.43	4	4	0	3300	3300	0
7/5/2024 22:48	58003	WCAR_T1	1	2	1	1	1.2	0.2	0.46	0.47	1	1	0	600	600	0
7/5/2024 22:49	58003	WCAR_T1	1	2	1	1	1.2	0.2	0.46	0.47	1	1	0	600	600	0
7/5/2024 22:49	57106	SPHI_T2	3	3	0	0.73	1.07	0.34	0	0	0	0	0	0	0	0
7/5/2024 22:49	58402	MORO_T1	0	0	0	0	0	0	-0.62	-0.63	3	3	0	2400	2400	0
7/5/2024 22:49	61301	EARL_T1	0	0	0	0	0	0	-0.59	-0.57	1	1	0	900	900	0
7/5/2024 22:49	51401	LYKE_T1	0	0	0	0	0	0	0.38	0.44	0	0	0	0	0	0
7/5/2024 22:49	55001	NEWP_T1	0	1	1	0	0	0	-0.41	-0.49	0	0	0	0	0	0
7/5/2024 22:49	57103	SPHI_T2	0	0	0	0	0	0	-0.31	-0.31	1	1	0	600	600	0
7/5/2024 22:50	47001	HUGH_T2	3	3	0	5.47	5.83	0.36	-0.24	-0.27	0	0	0	0	0	0
7/5/2024 22:50	49803	UNIV_T1	0	0	0	0	0	0	-1.82	-1.87	0	0	0	0	0	0
7/5/2024 22:50	61701	ELIZ_T1	1	1	0	1.9	2.3	0.4	0	0	0	0	0	0	0	0
7/5/2024 22:50	56501	ROCK_T2	64	256	192	0.2	0.4	0.2	-2.43	-2.48	0	0	0	0	0	0
7/5/2024 22:50	45802	HEGI_T2	13	13	0	0.68	0.62	-0.06	0.61	0.68	1	1	0	300	300	0
7/5/2024 22:50	40902	JESH_T1	0	0	0	0	0	0	-0.63	-0.67	1	1	0	600	600	0
7/5/2024 22:50	61703	ELIZ_T1	0	0	0	0	0	0	-2.37	-2.38	2	2	0	2100	2100	0
7/5/2024 22:50	46102	MACI_T1	0	1	1	0	0	0	1.12	1.12	0	0	0	0	0	0
7/5/2024 22:50	40802	EXCH_T2	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
7/5/2024 22:50	42701	AUGU_T1	13	6	-7	0.36	0.4	0.04	0	0	2	2	0	1800	1800	0
7/5/2024 22:50	42201	SHEN_T2	0	0	0	0	0	0	0.23	0.18	1	1	0	600	600	0
7/5/2024 22:50	47101	MARL_T1	18	39	21	0.49	0.56	0.07	-1.83	-1.75	2	2	0	1200	1200	0
7/5/2024 22:50	56803	BENV_T1	0	0	0	0	0	0	-1.16	-1.15	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/5/2024 22:50	58003	WCAR_T1	1	2	1	1	1.2	0.2	0.46	0.47	1	1	0	600	600	0
7/5/2024 22:50	42203	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:50	56801	BENV_T1	7	7	0	0.66	0.91	0.25	-0.2	-0.22	1	1	0	600	600	0
7/5/2024 22:50	40901	JESH_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
7/5/2024 22:51	45802	HEGI_T2	13	13	0	0.68	0.62	-0.06	0.61	0.68	1	1	0	300	300	0
7/5/2024 22:51	59101	WALK_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
7/5/2024 22:51	47101	MARL_T1	18	39	21	0.49	0.56	0.07	-0.91	-0.88	1	1	0	600	600	0
7/5/2024 22:51	24104	EHAZ_T1	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
7/5/2024 22:51	52403	GRPA_T2	12	5	-7	0.71	0.97	0.26	0	0	0	0	0	0	0	0
7/5/2024 22:51	42903	MIDD_T2	2	2	0	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
7/5/2024 22:51	52404	GRPA_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
7/5/2024 22:51	59201	THOM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/5/2024 22:51	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:51	24102	EHAZ_T1	3	22	19	0.47	0.5	0.03	0	0	0	0	0	0	0	0
7/5/2024 22:51	56801	BENV_T1	7	7	0	0.66	0.91	0.25	-0.6	-0.66	3	3	0	1800	1800	0
7/5/2024 22:51	44801	EDAN_T2	6	14	8	0.62	0.5	-0.12	0.84	0.76	0	0	0	0	0	0
7/5/2024 22:51	24105	EHAZ_T1	4	4	0	5.83	5.9	0.07	0	0	0	0	0	0	0	0
7/5/2024 22:51	55101	WERT_T1	0	0	0	0	0	0	-2.45	-2.43	4	4	0	3300	3300	0
7/5/2024 22:51	58401	MORO_T1	0	0	0	0	0	0	-1.88	-1.91	3	3	0	2100	2100	0
7/5/2024 22:51	42902	MIDD_T2	0	0	0	0	0	0	-0.97	-1	1	1	0	600	600	0
7/5/2024 22:51	46203	DANV_T2	6	6	0	0.48	0.36	-0.12	-1.08	-1.14	0	0	0	0	0	0
7/5/2024 22:51	51109	CARL_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
7/5/2024 22:51	46206	DANV_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
7/5/2024 22:51	40802	EXCH_T2	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
7/5/2024 22:51	51102	CARL_T1	0	14	14	0	0.12	0.12	0	0	0	0	0	0	0	0
7/5/2024 22:51	51108	CARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/5/2024 22:51	51101	CARL_T1	1	1	0	6.1	5.8	-0.3	0	0	0	0	0	0	0	0
7/5/2024 22:51	24101	EHAZ_T1	22	20	-2	1.39	0.3	-1.09	0	0	0	0	0	0	0	0
7/5/2024 22:51	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:51	52402	GRPA_T2	2	4	2	1.25	0.83	-0.42	-0.61	-0.55	0	0	0	0	0	0
7/5/2024 22:52	24105	EHAZ_T1	4	4	0	5.83	5.9	0.07	0	0	0	0	0	0	0	0
7/5/2024 22:52	40901	JESH_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
7/5/2024 22:52	24104	EHAZ_T1	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
7/5/2024 22:52	56801	BENV_T1	7	7	0	0.66	0.91	0.25	-0.44	-0.52	2	2	0	1200	1200	0
7/5/2024 22:52	44201	POIN_T1	28	66	38	0.13	0.24	0.11	-1.98	-2.02	1	1	0	1200	1200	0
7/5/2024 22:52	47401	PENS_T1	0	0	0	0	0	0	1.82	1.39	0	0	0	0	0	0
7/5/2024 22:52	52404	GRPA_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
7/5/2024 22:52	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:52	24801	VALM_T1	0	0	0	0	0	0	0.02	-0.06	0	0	0	0	0	0
7/5/2024 22:52	44203	POIN_T2	6	6	0	2.48	1.98	-0.5	-0.59	-0.69	4	4	0	4200	4200	0
7/5/2024 22:52	24101	EHAZ_T1	22	20	-2	1.39	0.3	-1.09	0	0	0	0	0	0	0	0
7/5/2024 22:52	52403	GRPA_T2	12	5	-7	0.71	0.97	0.26	0	0	0	0	0	0	0	0
7/5/2024 22:52	47001	HUGH_T2	3	3	0	5.47	5.83	0.36	-0.27	-0.36	0	0	0	0	0	0
7/5/2024 22:52	41902	REED_T1	24	28	4	0.53	0.31	-0.22	1.05	0.99	2	2	0	1800	1800	0
7/5/2024 22:52	24102	EHAZ_T1	3	22	19	0.47	0.5	0.03	0	0	0	0	0	0	0	0
7/5/2024 22:52	24806	VALM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:52	53902	HALI_T2	1	1	0	3.6	4.2	0.6	0	0	0	0	0	0	0	0
7/5/2024 22:52	40101	HUNT_T2	1	2	1	0.3	0.2	-0.1	-1.89	-1.9	0	0	0	0	0	0
7/5/2024 22:52	52402	GRPA_T2	2	4	2	1.25	0.83	-0.42	0	0	0	0	0	0	0	0
7/5/2024 22:52	53903	HALI_T2	0	2	2	0	0.25	0.25	-0.01	-0.03	0	0	0	0	0	0
7/5/2024 22:52	40902	JESH_T1	0	0	0	0	0	0	-0.67	-0.69	1	1	0	600	600	0
7/5/2024 22:52	41901	REED_T1	2	7	5	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/5/2024 22:53	46206	DANV_T2	1	2	1	0.2	0.2	0	0.6	0.55	2	2	0	2100	2100	0
7/5/2024 22:53	52403	GRPA_T2	12	5	-7	0.71	0.97	0.26	-0.37	-0.4	0	0	0	0	0	0
7/5/2024 22:53	53902	HALI_T2	1	1	0	3.6	4.2	0.6	0	0	0	0	0	0	0	0
7/5/2024 22:53	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:53	42201	SHEN_T2	0	0	0	0	0	0	0.18	0.19	1	1	0	600	600	0
7/5/2024 22:53	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:53	42902	MIDD_T2	0	0	0	0	0	0	-0.97	-1	1	1	0	600	600	0
7/5/2024 22:53	24104	EHAZ_T1	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
7/5/2024 22:53	44801	EDAN_T2	6	14	8	0.62	0.5	-0.12	0.84	0.76	0	0	0	0	0	0
7/5/2024 22:53	53901	HALI_T2	0	0	0	0	0	0	-0.81	-0.85	0	0	0	0	0	0
7/5/2024 22:53	46203	DANV_T2	6	6	0	0.48	0.36	-0.12	0	0	0	0	0	0	0	0
7/5/2024 22:53	47401	PENS_T1	0	0	0	0	0	0	0.91	0.69	0	0	0	0	0	0
7/5/2024 22:53	55001	NEWP_T1	0	1	1	0	0	0	-0.49	-0.5	0	0	0	0	0	0
7/5/2024 22:53	24102	EHAZ_T1	3	22	19	0.47	0.5	0.03	0	0	0	0	0	0	0	0
7/5/2024 22:53	52402	GRPA_T2	2	4	2	1.25	0.83	-0.42	-0.55	-0.62	0	0	0	0	0	0
7/5/2024 22:53	24101	EHAZ_T1	22	20	-2	1.39	0.3	-1.09	0	0	0	0	0	0	0	0
7/5/2024 22:53	24105	EHAZ_T1	4	4	0	5.83	5.9	0.07	0	0	0	0	0	0	0	0
7/5/2024 22:53	42701	AUGU_T1	13	6	-7	0.36	0.4	0.04	0	0	2	2	0	1800	1800	0
7/5/2024 22:53	53903	HALI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/5/2024 22:53	44201	POIN_T1	28	66	38	0.13	0.24	0.11	-1.98	-2.02	1	1	0	1200	1200	0
7/5/2024 22:53	42903	MIDD_T2	2	2	0	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
7/5/2024 22:53	43202	MVIL_T2	1	1	0	0.2	0.2	0	-0.46	-0.46	0	0	0	0	0	0
7/5/2024 22:53	43201	MVIL_T2	3	5	2	0.5	0.86	0.36	0	0	0	0	0	0	0	0
7/5/2024 22:53	42203	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:54	52403	GRPA_T2	12	5	-7	0.71	0.97	0.26	-0.74	-0.81	0	0	0	0	0	0
7/5/2024 22:54	55003	NEWP_T2	2	2	0	1.35	0.2	-1.15	-0.47	-0.47	0	0	0	0	0	0
7/5/2024 22:54	56801	BENV_T1	7	7	0	0.66	0.91	0.25	-0.44	-0.52	2	2	0	1200	1200	0
7/5/2024 22:54	47401	PENS_T1	0	0	0	0	0	0	0.3	0.23	0	0	0	0	0	0
7/5/2024 22:54	46302	ROHR_T1	7	6	-1	3.26	2.85	-0.41	0.42	0.42	0	0	0	0	0	0
7/5/2024 22:54	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:54	44301	BEAV_T2	2	2	0	1	0.35	-0.65	0.27	0.17	1	1	0	600	600	0
7/5/2024 22:54	43201	MVIL_T2	3	5	2	0.5	0.86	0.36	0	0	0	0	0	0	0	0
7/5/2024 22:54	44801	EDAN_T2	6	14	8	0.62	0.5	-0.12	0.84	0.76	0	0	0	0	0	0
7/5/2024 22:54	43304	WATS_T2	21	3	-18	0.32	0.1	-0.22	-0.28	-0.3	0	0	0	0	0	0
7/5/2024 22:54	46206	DANV_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
7/5/2024 22:54	52404	GRPA_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
7/5/2024 22:54	42201	SHEN_T2	0	0	0	0	0	0	0.18	0.19	1	1	0	600	600	0
7/5/2024 22:54	53802	MBRG_T2	0	0	0	0	0	0	0.62	0.56	0	0	0	0	0	0
7/5/2024 22:54	46203	DANV_T2	6	6	0	0.48	0.36	-0.12	-1.08	-1.14	0	0	0	0	0	0
7/5/2024 22:54	44203	POIN_T2	6	6	0	2.48	1.98	-0.5	-0.29	-0.34	2	2	0	2100	2100	0
7/5/2024 22:54	46301	ROHR_T1	99	77	-22	0.31	0.24	-0.07	0	0	0	0	0	0	0	0
7/5/2024 22:54	42203	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:54	45602	WOOL_T1	65	66	1	1.68	1.55	-0.13	0.69	0.63	0	0	0	0	0	0
7/5/2024 22:54	52402	GRPA_T2	2	4	2	1.25	0.83	-0.42	0	0	0	0	0	0	0	0
7/5/2024 22:54	43202	MVIL_T2	1	1	0	0.2	0.2	0	-0.46	-0.46	0	0	0	0	0	0
7/5/2024 22:54	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:55	46203	DANV_T2	6	6	0	0.48	0.36	-0.12	-2.17	-2.29	0	0	0	0	0	0
7/5/2024 22:55	53501	EVIL_T2	1	1	0	0.3	0.9	0.6	-0.15	-0.14	0	0	0	0	0	0
7/5/2024 22:55	67605	WARW_T1	0	0	0	0	0	0	-0.86	-0.92	0	0	0	0	0	0
7/5/2024 22:55	43304	WATS_T2	21	3	-18	0.32	0.1	-0.22	0.28	-0.3	0	0	0	0	0	0
7/5/2024 22:55	40101	HUNT_T2	1	2	1	0.3	0.2	-0.1	-0.95	-0.95	0	0	0	0	0	0
7/5/2024 22:55	46206	DANV_T2	1	2	1	0.2	0.2	0	0.6	0.55	2	2	0	2100	2100	0
7/5/2024 22:56	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/5/2024 22:56	46302	ROHR_T1	7	6	-1	3.26	2.85	-0.41	0.42	0.42	0	0	0	0	0	0
7/5/2024 22:56	47401	PENS_T1	0	0	0	0	0	0	0.3	0.23	0	0	0	0	0	0
7/5/2024 22:56	45701	LIND_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
7/5/2024 22:56	44201	POIN_T1	28	66	38	0.13	0.24	0.11	-3.96	-4.04	2	2	0	2400	2400	0
7/5/2024 22:56	56801	BENV_T1	7	7	0	0.66	0.91	0.25	-0.22	-0.26	1	1	0	600	600	0
7/5/2024 22:56	43304	WATS_T2	21	3	-18	0.32	0.1	-0.22	-0.56	-0.61	0	0	0	0	0	0
7/5/2024 22:56	45702	LIND_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
7/5/2024 22:56	46301	ROHR_T1	99	77	-22	0.31	0.24	-0.07	0	0	0	0	0	0	0	0
7/5/2024 22:56	42903	MIDD_T2	2	2	0	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
7/5/2024 22:56	42902	MIDD_T2	0	0	0	0	0	0	-0.97	-1	1	1	0	600	600	0
7/5/2024 22:57	42903	MIDD_T2	2	2	0	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
7/5/2024 22:57	46802	HEPB_T1	0	0	0	0	0	0	0.15	0.09	0	0	0	0	0	0
7/5/2024 22:57	46801	HEPB_T2	2	2	0	0.3	0.45	0.15	0.1	0.09	0	0	0	0	0	0
7/5/2024 22:57	42902	MIDD_T2	0	0	0	0	0	0	-0.97	-1	1	1	0	600	600	0
7/5/2024 22:57	45702	LIND_T2	1	1	0	0.7	1.1	0.4	0.07	0.07	0	0	0	0	0	0
7/5/2024 22:57	45602	WOOL_T1	65	66	1	1.68	1.55	-0.13	0.69	0.63	0	0	0	0	0	0
7/5/2024 22:57	43304	WATS_T2	21	3	-18	0.32	0.1	-0.22	-0.56	-0.61	0	0	0	0	0	0
7/5/2024 22:58	56501	ROCK_T2	64	256	192	0.2	0.4	0.2	-2.48	-2.55	0	0	0	0	0	0
7/5/2024 22:58	43202	MVIL_T2	1	1	0	0.2	0.2	0	-0.46	-0.46	0	0	0	0	0	0
7/5/2024 22:58	43304	WATS_T2	21	3	-18	0.32	0.1	-0.22	-0.56	-0.61	0	0	0	0	0	0
7/5/2024 22:58	43201	MVIL_T2	3	5	2	0.5	0.86	0.36	0	0	0	0	0	0	0	0
7/5/2024 22:59	45702	LIND_T2	1	1	0	0.7	1.1	0.4	0.07	0.07	0	0	0	0	0	0
7/5/2024 22:59	42002	MNVL_T2	1	1	0	2.4	2.5	0.1	-0.29	-0.34	0	0	0	0	0	0
7/5/2024 22:59	45602	WOOL_T1	65	66	1	1.68	1.55	-0.13	0.69	0.63	0	0	0	0	0	0
7/5/2024 23:00	46803	HEPB_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
7/5/2024 23:00	46801	HEPB_T2	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
7/5/2024 23:00	58402	MORO_T1	0	0	0	0	0	0	-0.63	-0.71	3	3	0	2400	2400	0
7/5/2024 23:04	64203	KINZ_T1	0	0	0	0	0	0	0.09	0.05	1	1	0	600	600	0
7/5/2024 23:04	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
7/5/2024 23:04	64202	KINZ_T1	1	1	0	2.4	0	-2.4	0	0	0	0	0	0	0	0
7/5/2024 23:05	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
7/5/2024 23:05	64203	KINZ_T1	0	0	0	0	0	0	0.09	0.05	1	1	0	600	600	0
7/5/2024 23:05	64202	KINZ_T1	1	1	0	2.4	0	-2.4	0	0	0	0	0	0	0	0
7/5/2024 23:11	13903	SEID_T1	3	0	-3	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/5/2024 23:11	61301	EARL_T1	0	0	0	0	0	0	-0.59	-0.57	1	1	0	900	900	0
7/5/2024 23:11	13904	SEID_T1	2	14	12	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/5/2024 23:11	13905	SEID_T1	0	0	0	0	0	0	-0.54	-0.58	1	1	0	1200	1200	0
7/5/2024 23:12	61301	EARL_T1	0	0	0	0	0	0	-0.59	-0.57	1	1	0	900	900	0
7/5/2024 23:26	64203	KINZ_T1	0	1	1	0	0	0	0.01	0.03	1	1	0	600	600	0
7/5/2024 23:26	67605	WARW_T1	0	0	0	0	0	0	-0.73	-0.81	0	0	0	0	0	0
7/5/2024 23:26	64202	KINZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/5/2024 23:26	64204	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
7/5/2024 23:27	64203	KINZ_T1	0	1	1	0	0	0	0.01	0.03	1	1	0	600	600	0
7/5/2024 23:27	64202	KINZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/5/2024 23:27	67605	WARW_T1	0	0	0	0	0	0	-0.73	-0.81	0	0	0	0	0	0
7/5/2024 23:27	64204	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
7/5/2024 23:33	61301	EARL_T1	0	0	0	0	0	0	-0.57	-0.59	1	1	0	900	900	0
7/5/2024 23:34	61301	EARL_T1	0	0	0	0	0	0	-0.57	-0.59	1	1	0	900	900	0
7/5/2024 23:47	64203	KINZ_T1	0	0	0	0	0	0	0.03	0.04	1	1	0	600	600	0
7/5/2024 23:47	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/5/2024 23:48	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/5/2024 23:48	64203	KINZ_T1	0	0	0	0	0	0	0.03	0.04	1	1	0	600	600	0
7/5/2024 23:55	61301	EARL_T1	0	0	0	0	0	0	-0.61	-0.6	1	1	0	900	900	0
7/5/2024 23:56	61301	EARL_T1	0	0	0	0	0	0	-0.61	-0.6	1	1	0	900	900	0
7/6/2024 0:09	64203	KINZ_T1	0	0	0	0	0	0	-0.03	0	1	1	0	600	600	0
7/6/2024 0:09	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
7/6/2024 0:09	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 0:10	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/6/2024 0:10	64203	KINZ_T1	0	0	0	0	0	0	-0.03	0	1	1	0	600	600	0
7/6/2024 0:10	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 0:16	61301	EARL_T1	0	0	0	0	0	0	-0.6	-0.6	1	1	0	900	900	0
7/6/2024 0:17	61301	EARL_T1	0	0	0	0	0	0	-0.6	-0.6	1	1	0	900	900	0
7/6/2024 0:31	64203	KINZ_T1	0	0	0	0	0	0	0	-0.02	1	1	0	600	600	0
7/6/2024 0:31	64202	KINZ_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/6/2024 0:31	64201	KINZ_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
7/6/2024 0:31	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
7/6/2024 0:32	64202	KINZ_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/6/2024 0:32	64201	KINZ_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
7/6/2024 0:32	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
7/6/2024 0:32	64203	KINZ_T1	0	0	0	0	0	0	0	-0.02	1	1	0	600	600	0
7/6/2024 0:38	56501	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 0:38	56504	ROCK_T2	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
7/6/2024 0:38	61301	EARL_T1	0	0	0	0	0	0	-0.65	-0.65	1	1	0	900	900	0
7/6/2024 0:39	61301	EARL_T1	0	0	0	0	0	0	-0.65	-0.65	1	1	0	900	900	0
7/6/2024 1:00	61301	EARL_T1	0	0	0	0	0	0	-0.65	-0.62	1	1	0	900	900	0
7/6/2024 1:01	61301	EARL_T1	0	0	0	0	0	0	-0.65	-0.62	1	1	0	900	900	0
7/6/2024 1:14	64203	KINZ_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/6/2024 1:14	64204	KINZ_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
7/6/2024 1:14	64202	KINZ_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/6/2024 1:14	64201	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
7/6/2024 1:15	64201	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
7/6/2024 1:15	64202	KINZ_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/6/2024 1:15	64204	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 1:15	64203	KINZ_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/6/2024 1:21	61301	EARL_T1	0	0	0	0	0	0	-0.62	-0.63	1	1	0	900	900	0
7/6/2024 1:22	61301	EARL_T1	0	0	0	0	0	0	-0.63	-0.62	1	1	0	900	900	0
7/6/2024 1:36	64204	KINZ_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
7/6/2024 1:36	64202	KINZ_T1	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
7/6/2024 1:36	64201	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 1:36	64203	KINZ_T1	0	0	0	0	0	0	0	0.04	1	1	0	600	600	0
7/6/2024 1:37	64203	KINZ_T1	0	0	0	0	0	0	0.04	0.12	1	1	0	600	600	0
7/6/2024 1:37	64204	KINZ_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
7/6/2024 1:37	64201	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 1:37	64202	KINZ_T1	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
7/6/2024 1:43	61301	EARL_T1	0	0	0	0	0	0	-0.62	-0.62	1	1	0	900	900	0
7/6/2024 1:44	61301	EARL_T1	0	0	0	0	0	0	-0.62	-0.62	1	1	0	900	900	0
7/6/2024 1:51	61701	ELIZ_T1	1	1	0	1.9	2.2	0.3	0.74	0.76	0	0	0	0	0	0
7/6/2024 1:58	64201	KINZ_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
7/6/2024 1:58	64203	KINZ_T1	0	0	0	0	0	0	0.12	0.05	1	1	0	600	600	0
7/6/2024 1:58	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/6/2024 1:58	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
7/6/2024 1:59	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/6/2024 1:59	64203	KINZ_T1	0	0	0	0	0	0	0.12	0.05	1	1	0	600	600	0
7/6/2024 1:59	64201	KINZ_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
7/6/2024 1:59	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
7/6/2024 2:06	61301	EARL_T1	0	0	0	0	0	0	-0.62	-0.65	1	1	0	900	900	0
7/6/2024 2:06	61304	EARL_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 2:07	61304	EARL_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 2:07	61301	EARL_T1	0	0	0	0	0	0	-0.65	-0.63	1	1	0	900	900	0
7/6/2024 2:20	64202	KINZ_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/6/2024 2:20	64201	KINZ_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
7/6/2024 2:20	64204	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
7/6/2024 2:20	64203	KINZ_T1	0	0	0	0	0	0	0.05	0.08	1	1	0	600	600	0
7/6/2024 2:21	64203	KINZ_T1	0	0	0	0	0	0	0.05	0.08	1	1	0	600	600	0
7/6/2024 2:21	64204	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
7/6/2024 2:21	64201	KINZ_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
7/6/2024 2:21	64202	KINZ_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/6/2024 2:28	61301	EARL_T1	0	0	0	0	0	0	-0.63	-0.64	1	1	0	900	900	0
7/6/2024 2:28	61304	EARL_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 2:29	61301	EARL_T1	0	0	0	0	0	0	-0.63	-0.64	1	1	0	900	900	0
7/6/2024 2:29	61304	EARL_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 2:50	61301	EARL_T1	0	0	0	0	0	0	-0.64	-0.64	1	1	0	900	900	0
7/6/2024 2:50	61304	EARL_T1	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
7/6/2024 2:51	61301	EARL_T1	0	0	0	0	0	0	-0.64	-0.64	1	1	0	900	900	0
7/6/2024 2:51	61304	EARL_T1	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
7/6/2024 6:37	44203	POIN_T2	0	0	0	0	0	0	-0.78	-0.77	2	2	0	2100	2100	0
7/6/2024 6:39	66202	SISP_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
7/6/2024 6:46	52403	GRPA_T2	5	12	7	0.62	0.73	0.11	-0.48	-0.48	0	0	0	0	0	0
7/6/2024 6:46	52401	GRPA_T2	0	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0
7/6/2024 6:48	50107	HARR_T3	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
7/6/2024 6:48	50201	HARR_T3	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/6/2024 6:48	50103	HARR_T3	0	0	0	0	0	0	-1.3	-1.31	1	1	0	1200	1200	0
7/6/2024 6:48	50105	HARR_T3	6	6	0	6.62	6.73	0.11	0	0	0	0	0	0	0	0
7/6/2024 6:58	43402	BENT_T1	0	0	0	0	0	0	-0.84	-0.84	1	1	0	900	900	0
7/6/2024 6:58	62102	ELAN_T1	0	0	0	0	0	0	1.12	1.14	0	0	0	0	0	0
7/6/2024 7:02	12601	MACA_T1	0	0	0	0	0	0	1.1	1.12	0	0	0	0	0	0
7/6/2024 7:09	22002	BOHE_T1	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
7/6/2024 7:09	43401	BENT_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 7:09	22003	BOHE_T1	232	209	-23	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
7/6/2024 7:09	43402	BENT_T1	0	0	0	0	0	0	-0.84	-0.81	1	1	0	900	900	0
7/6/2024 7:09	22001	BOHE_T1	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/6/2024 7:10	43401	BENT_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 7:10	43402	BENT_T1	0	0	0	0	0	0	-0.84	-0.81	1	1	0	900	900	0
7/6/2024 7:15	66302	MCGO_T2	0	0	0	0	0	0	-0.59	-0.56	0	0	0	0	0	0
7/6/2024 7:18	13502	MCMI_T1	1	0	-1	8.4	0	-8.4	0	0	0	0	0	0	0	0
7/6/2024 7:18	13501	MCMI_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
7/6/2024 7:25	22003	BOHE_T1	176	75	-101	0.29	0.24	-0.05	0	0	0	0	0	0	0	0
7/6/2024 7:25	22002	BOHE_T1	0	0	0	0	0	0	0.61	0.7	0	0	0	0	0	0
7/6/2024 7:28	24902	WHHA_T1	1	2	1	1.1	1.1	0	0.87	0.86	0	0	0	0	0	0
7/6/2024 7:33	44201	POIN_T1	81	14	-67	0.22	0.19	-0.03	-2.25	-2.16	1	1	0	1200	1200	0
7/6/2024 7:34	56501	ROCK_T2	0	1	1	0	0	0	-1.54	-1.5	0	0	0	0	0	0
7/6/2024 7:35	44201	POIN_T1	81	14	-67	0.22	0.19	-0.03	-2.25	-2.16	1	1	0	1200	1200	0
7/6/2024 7:38	56501	ROCK_T2	0	1	1	0	0	0	-1.5	-1.46	0	0	0	0	0	0
7/6/2024 7:39	29402	BELT_T1	29	1	-28	0.62	9.2	8.58	0	0	0	0	0	0	0	0
7/6/2024 7:43	63804	HEMP_T1	1	1	0	7	6.6	-0.4	0.31	0.33	0	0	0	0	0	0
7/6/2024 7:45	64204	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/6/2024 7:45	64203	KINZ_T1	0	0	0	0	0	0	0.23	0.2	1	1	0	300	300	0
7/6/2024 7:51	58401	MORO_T1	1	1	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
7/6/2024 7:51	58402	MORO_T1	1	0	-1	0.4	0	-0.4	-0.11	-0.08	2	2	0	1500	1500	0
7/6/2024 7:53	43304	WATS_T2	0	1	1	0	0	0	-0.79	-0.74	0	0	0	0	0	0
7/6/2024 7:56	21203	ECAR_T1	0	1	1	0	0	0	0.69	0.68	0	0	0	0	0	0
7/6/2024 7:57	40504	CRES_T1	0	0	0	0	0	0	-1.53	-1.44	0	0	0	0	0	0
7/6/2024 7:57	40505	CRES_T1	4	4	0	2.63	4.1	1.47	0	0	0	0	0	0	0	0
7/6/2024 7:58	24902	WHHA_T1	1	25	24	1.5	0.46	-1.04	0.89	0.93	0	0	0	0	0	0
7/6/2024 8:03	47403	PENS_T1	3	3	0	0.83	0.55	-0.28	2.68	0.29	0	0	0	0	0	0
7/6/2024 8:03	13501	MCMI_T1	0	0	0	0	0	0	0.26	0.32	0	0	0	0	0	0
7/6/2024 8:03	47403	PENS_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/6/2024 8:12	46206	DANV_T2	52	51	-1	0.73	0.59	-0.14	1.17	1.17	4	4	0	4200	4200	0
7/6/2024 8:13	46801	HEPB_T2	0	2	2	0	0.5	0.5	0.08	0.13	0	0	0	0	0	0
7/6/2024 8:14	46801	HEPB_T2	0	2	2	0	0.5	0.5	0.08	0.13	0	0	0	0	0	0
7/6/2024 8:21	55101	WERT_T1	0	0	0	0	0	0	-1.85	-1.77	4	4	0	3300	3300	0
7/6/2024 8:21	55103	WERT_T1	1	2	1	5	5.4	0.4	0	0	0	0	0	0	0	0
7/6/2024 8:23	55103	WERT_T1	1	2	1	5	5.4	0.4	0	0	0	0	0	0	0	0
7/6/2024 8:23	55101	WERT_T1	0	0	0	0	0	0	-1.77	-1.86	4	4	0	3300	3300	0
7/6/2024 8:23	43304	WATS_T2	1	3	2	0.2	0	-0.2	-0.7	-0.67	0	0	0	0	0	0
7/6/2024 8:24	67605	WARW_T1	0	0	0	0	0	0	-1.03	-0.99	0	0	0	0	0	0
7/6/2024 8:24	55405	SHER_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
7/6/2024 8:25	40502	CRES_T2	0	2	2	0	0.2	0.2	-0.82	-0.69	0	0	0	0	0	0
7/6/2024 8:25	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 8:26	55101	WERT_T1	0	0	0	0	0	0	-1.77	-1.86	4	4	0	3300	3300	0
7/6/2024 8:26	55103	WERT_T1	1	2	1	5	5.4	0.4	0	0	0	0	0	0	0	0
7/6/2024 8:26	40502	CRES_T2	0	2	2	0	0.2	0.2	-1.23	-1.03	0	0	0	0	0	0
7/6/2024 8:26	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 8:27	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 8:27	40502	CRES_T2	0	2	2	0	0.2	0.2	-1.64	-1.38	0	0	0	0	0	0
7/6/2024 8:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 8:28	40502	CRES_T2	0	2	2	0	0.2	0.2	-0.82	-0.69	0	0	0	0	0	0
7/6/2024 8:29	40502	CRES_T2	0	2	2	0	0.2	0.2	-1.23	-1.03	0	0	0	0	0	0
7/6/2024 8:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 8:30	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 8:30	40502	CRES_T2	2	2	0	0.1	0.2	0.1	-0.82	-0.69	0	0	0	0	0	0
7/6/2024 8:35	46302	ROHR_T1	7	9	2	2.77	1.72	-1.05	0.34	0.35	0	0	0	0	0	0
7/6/2024 8:36	46302	ROHR_T1	7	9	2	2.77	1.72	-1.05	0.35	0.37	0	0	0	0	0	0
7/6/2024 8:41	29402	BELT_T1	133	101	-32	1.28	1.18	-0.1	0	0	0	0	0	0	0	0
7/6/2024 8:43	46801	HEPB_T2	2	2	0	0.5	0.45	-0.05	0.17	0.18	0	0	0	0	0	0
7/6/2024 8:45	52401	GRPA_T2	0	7	7	0	0.48	0.48	0	0	0	0	0	0	0	0
7/6/2024 8:45	52404	GRPA_T2	0	0	0	0	0	0	-0.53	-0.48	0	0	0	0	0	0
7/6/2024 8:45	52402	GRPA_T2	4	7	3	1.63	0.68	-0.95	0	0	0	0	0	0	0	0
7/6/2024 8:45	52403	GRPA_T2	23	125	102	0.82	0.57	-0.25	0	0	0	0	0	0	0	0
7/6/2024 8:46	46801	HEPB_T2	2	2	0	0.45	0.3	-0.15	0.17	0.18	0	0	0	0	0	0
7/6/2024 8:48	52402	GRPA_T2	4	7	3	1.63	0.68	-0.95	0	0	0	0	0	0	0	0
7/6/2024 8:48	52404	GRPA_T2	0	0	0	0	0	0	-0.53	-0.48	0	0	0	0	0	0
7/6/2024 8:48	52403	GRPA_T2	23	125	102	0.82	0.57	-0.25	0	0	0	0	0	0	0	0
7/6/2024 8:48	52401	GRPA_T2	0	7	7	0	0.48	0.48	0	0	0	0	0	0	0	0
7/6/2024 8:55	20403	ASHF_T2	2	0	0	0.65	0.75	0.1	0.92	0.94	0	0	0	0	0	0
7/6/2024 8:55	20401	ASHF_T2	4	2	-2	1.38	1	-0.38	0	0	0	0	0	0	0	0
7/6/2024 8:55	20402	ASHF_T2	6	3	-3	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/6/2024 8:55	67605	WARW_T1	0	0	0	0	0	0	-0.96	-0.92	0	0	0	0	0	0
7/6/2024 8:56	61701	ELIZ_T1	0	1	1	0	0.3	0.3	2.06	2.36	0	0	0	0	0	0
7/6/2024 8:57	20402	ASHF_T2	6	3	-3	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/6/2024 8:57	20401	ASHF_T2	4	2	-2	1.38	1	-0.38	0	0	0	0	0	0	0	0
7/6/2024 8:57	20403	ASHF_T2	2	2	0	0.65	0.75	0.1	0.92	0.94	0	0	0	0	0	0
7/6/2024 8:57	61701	ELIZ_T1	0	1	1	0	0.3	0.3	1.03	1.18	0	0	0	0	0	0
7/6/2024 8:59	46801	HEPB_T2	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
7/6/2024 8:59	46803	HEPB_T2	0	0	0	0	0	0	0.67	0.7	0	0	0	0	0	0
7/6/2024 9:05	22002	BOHE_T1	0	0	0	0	0	0	0.73	0.76	0	0	0	0	0	0
7/6/2024 9:05	22003	BOHE_T1	3	3	0	0.5	1.03	0.53	0	0	0	0	0	0	0	0
7/6/2024 9:07	20401	ASHF_T2	2	4	2	1.15	1	-0.15	0	0	0	0	0	0	0	0
7/6/2024 9:07	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 9:07	20403	ASHF_T2	2	2	0	1.2	1.1	-0.1	0.94	-0.15	0	0	0	0	0	0
7/6/2024 9:08	46302	ROHR_T1	7	8	1	2.49	2.19	-0.3	0.38	0.42	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/6/2024 9:08	67605	WARW_T1	0	0	0	0	0	0	-0.92	-0.89	0	0	0	0	0	0
7/6/2024 9:09	67605	WARW_T1	0	0	0	0	0	0	-0.92	-0.89	0	0	0	0	0	0
7/6/2024 9:10	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 9:10	20401	ASHF_T2	2	4	2	1.15	1	-0.15	0	0	0	0	0	0	0	0
7/6/2024 9:10	20403	ASHF_T2	2	2	0	1.2	1.1	-0.1	0.94	-0.15	0	0	0	0	0	0
7/6/2024 9:13	11104	EGYP_T1	4	4	0	0.33	0.1	-0.23	0.82	0.82	0	0	0	0	0	0
7/6/2024 9:13	20601	GRWO_T2	86	70	-16	0.62	0.5	-0.12	0.97	0.09	0	0	0	0	0	0
7/6/2024 9:13	11102	EGYP_T1	5	11	6	1.74	1.42	-0.32	0	0	0	0	0	0	0	0
7/6/2024 9:13	11101	EGYP_T1	1	4	3	2	2.5	0.5	0	0	0	0	0	0	0	0
7/6/2024 9:14	11101	EGYP_T1	1	4	3	2	2.5	0.5	0	0	0	0	0	0	0	0
7/6/2024 9:14	11102	EGYP_T1	5	11	6	1.74	1.42	-0.32	0	0	0	0	0	0	0	0
7/6/2024 9:14	11104	EGYP_T1	4	4	0	0.33	0.1	-0.23	0.82	0.82	0	0	0	0	0	0
7/6/2024 9:15	47101	MARL_T1	30	52	22	1.43	1.14	-0.29	-0.31	-0.25	0	0	0	0	0	0
7/6/2024 9:17	47101	MARL_T1	30	52	22	1.43	1.14	-0.29	-0.62	-0.49	0	0	0	0	0	0
7/6/2024 9:18	47401	PENS_T1	9	11	2	0.77	1.04	0.27	0.27	0.35	0	0	0	0	0	0
7/6/2024 9:18	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 9:18	47403	PENS_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/6/2024 9:18	60502	NMAN_T2	3	3	0	0.17	0	-0.17	-0.26	-1.92	0	0	0	0	0	0
7/6/2024 9:18	60501	NMAN_T2	3	3	0	3.33	3.3	-0.03	0	0	0	0	0	0	0	0
7/6/2024 9:19	47101	MARL_T1	30	52	22	1.43	1.14	-0.29	-0.31	-0.25	0	0	0	0	0	0
7/6/2024 9:20	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 9:20	41902	REED_T1	9	38	29	0.43	0.26	-0.17	0.27	0.34	1	1	0	900	900	0
7/6/2024 9:21	47403	PENS_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/6/2024 9:21	47401	PENS_T1	9	11	2	0.77	1.04	0.27	0.35	0.45	0	0	0	0	0	0
7/6/2024 9:21	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 9:21	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 9:21	41902	REED_T1	9	38	29	0.43	0.26	-0.17	0.27	0.34	1	1	0	900	900	0
7/6/2024 9:22	47403	PENS_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/6/2024 9:22	47401	PENS_T1	9	11	2	0.77	1.04	0.27	0.69	0.89	0	0	0	0	0	0
7/6/2024 9:22	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 9:24	67801	WLAN_T1	37	65	28	0.43	0.43	0	-0.86	-0.84	0	0	0	0	0	0
7/6/2024 9:24	67804	WLAN_T1	10	10	0	1.11	1.64	0.53	0	0	0	0	0	0	0	0
7/6/2024 9:25	56803	BENV_T1	5	8	3	0.44	0.88	0.44	0	0	0	0	0	0	0	0
7/6/2024 9:25	56801	BENV_T1	0	4	4	0	0.5	0.5	-0.3	-0.31	1	1	0	600	600	0
7/6/2024 9:27	46203	DANV_T2	3	5	2	0.77	0.27	-0.5	0	0	0	0	0	0	0	0
7/6/2024 9:27	46206	DANV_T2	45	63	18	0.54	0.68	0.14	0.62	0.66	2	2	0	2100	2100	0
7/6/2024 9:27	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 9:27	46204	DANV_T2	2	90	88	0.35	0.26	-0.09	0	0	0	0	0	0	0	0
7/6/2024 9:30	46801	HEPB_T2	2	3	1	0.35	0.55	0.2	0	0	0	0	0	0	0	0
7/6/2024 9:30	46803	HEPB_T2	0	1	1	0	0.5	0.5	0.72	0.71	0	0	0	0	0	0
7/6/2024 9:31	67605	WARW_T1	0	0	0	0	0	0	-0.89	-0.84	0	0	0	0	0	0
7/6/2024 9:32	67605	WARW_T1	0	0	0	0	0	0	-0.89	-0.84	0	0	0	0	0	0
7/6/2024 9:33	65601	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 9:33	52402	GRPA_T2	59	91	32	0.66	0.57	-0.09	0	0	0	0	0	0	0	0
7/6/2024 9:33	65604	QVIL_T2	1	1	0	0.5	0	-0.5	0.92	0.92	0	0	0	0	0	0
7/6/2024 9:33	52403	GRPA_T2	77	101	24	0.74	0.6	-0.14	-0.41	-0.42	0	0	0	0	0	0
7/6/2024 9:33	52401	GRPA_T2	4	10	6	0.4	0.56	0.16	0	0	0	0	0	0	0	0
7/6/2024 9:34	56501	ROCK_T2	4	2	-2	0.23	0.4	0.17	-2.45	-2.43	0	0	0	0	0	0
7/6/2024 9:34	65601	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 9:34	65604	QVIL_T2	1	1	0	0.5	0	-0.5	0.92	0.92	0	0	0	0	0	0
7/6/2024 9:38	67605	WARW_T1	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
7/6/2024 9:39	56803	BENV_T1	6	8	2	0.88	0.83	-0.05	0	0	0	0	0	0	0	0
7/6/2024 9:39	56801	BENV_T1	0	9	9	0	1.08	1.08	-0.92	-2.48	3	6	3	1800	3600	1800
7/6/2024 9:40	56803	BENV_T1	6	8	2	0.88	0.83	-0.05	0	0	0	0	0	0	0	0
7/6/2024 9:40	56801	BENV_T1	0	9	9	0	1.08	1.08	-0.31	-0.83	1	2	1	600	1200	600
7/6/2024 9:41	56801	BENV_T1	0	9	9	0	1.08	1.08	-0.92	-2.48	3	6	3	1800	3600	1800
7/6/2024 9:41	56803	BENV_T1	6	8	2	0.88	0.83	-0.05	0	0	0	0	0	0	0	0
7/6/2024 9:42	56803	BENV_T1	6	8	2	0.88	0.83	-0.05	0	0	0	0	0	0	0	0
7/6/2024 9:42	56801	BENV_T1	0	9	9	0	1.08	1.08	-0.31	-0.83	1	2	1	600	1200	600
7/6/2024 9:42	67605	WARW_T1	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
7/6/2024 9:43	56803	BENV_T1	6	8	2	0.88	0.83	-0.05	0	0	0	0	0	0	0	0
7/6/2024 9:43	61301	EARL_T1	0	0	0	0	0	0	-1.18	-1.19	2	2	0	1800	1800	0
7/6/2024 9:43	56801	BENV_T1	0	9	9	0	1.08	1.08	-0.31	-0.83	1	2	1	600	1200	600
7/6/2024 9:43	61304	EARL_T1	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
7/6/2024 9:45	22905	HARW_T1	19	11	-8	0.79	0	-0.79	0	0	0	0	0	0	0	0
7/6/2024 9:45	22903	HARW_T1	23	22	-1	1.47	1.35	-0.12	0	0	0	0	0	0	0	0
7/6/2024 9:45	22901	HARW_T1	0	6	6	0	0	0	-0.51	-0.48	1	1	0	1200	1200	0
7/6/2024 9:45	61304	EARL_T1	5	0	-5	0.18	0	-0.18	0	0	0	0	0	0	0	0
7/6/2024 9:45	61301	EARL_T1	0	0	0	0	0	0	-1.18	-1.19	2	2	0	1800	1800	0
7/6/2024 9:46	46801	HEPB_T2	2	3	1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
7/6/2024 9:46	46803	HEPB_T2	1	0	-1	0.5	0	-0.5	0.71	0.68	0	0	0	0	0	0
7/6/2024 9:49	56501	ROCK_T2	2	6	4	0.3	0.25	-0.05	-2.43	-2.36	0	0	0	0	0	0
7/6/2024 9:50	12305	LANA_T2	3	7	4	0.67	0.44	-0.23	0	0	0	0	0	0	0	0
7/6/2024 9:50	12301	LANA_T2	3	5	2	1.3	3.05	1.75	-0.76	-0.93	0	0	0	0	0	0
7/6/2024 9:50	12304	LANA_T2	17	35	18	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
7/6/2024 9:51	46102	MACI_T1	0	0	0	0	0	0	1.15	1.19	0	0	0	0	0	0
7/6/2024 9:51	56501	ROCK_T2	2	6	4	0.3	0.25	-0.05	-2.43	-2.36	0	0	0	0	0	0
7/6/2024 9:52	55408	SHER_T2	1	1	0	1	1	0	-0.58	-0.56	1	1	0	1200	1200	0
7/6/2024 9:52	56501	ROCK_T2	2	6	4	0.3	0.25	-0.05	-2.36	-2.29	0	0	0	0	0	0
7/6/2024 9:53	56501	ROCK_T2	2	6	4	0.3	0.25	-0.05	-2.36	-2.29	0	0	0	0	0	0
7/6/2024 9:53	67605	WARW_T1	0	0	0	0	0	0	-0.85	-0.79	0	0	0	0	0	0
7/6/2024 9:54	67605	WARW_T1	0	0	0	0	0	0	-0.85	-0.79	0	0	0	0	0	0
7/6/2024 9:54	56501	ROCK_T2	2	6	4	0.3	0.25	-0.05	-2.36	-2.29	0	0	0	0	0	0
7/6/2024 9:55	16302	ALPA_T2	0	0	0	0	0	0	0.04	-0.01	0	0	0	0	0	0
7/6/2024 9:56	67605	WARW_T1	0	0	0	0	0	0	-0.85	-0.79	0	0	0	0	0	0
7/6/2024 9:56	16302	ALPA_T2	0	0	0	0	0	0	0.04	-0.01	0	0	0	0	0	0
7/6/2024 9:57	16302	ALPA_T2	0	0	0	0	0	0	0.04	-0.01	0	0	0	0	0	0
7/6/2024 9:57	56501	ROCK_T2	2	6	4	0.3	0.25	-0.05	-2.36	-2.29	0	0	0	0	0	0
7/6/2024 9:58	16302	ALPA_T2	0	0	0	0	0	0	0.04	-0.01	0	0	0	0	0	0
7/6/2024 9:59	40101	HUNT_T2	26	8	-18	0.57	0.63	0.06	-0.73	-0.71	0	0	0	0	0	0
7/6/2024 10:00	13504	MCMI_T2	0	1	1	0	0.1	0.1	-1.69	-1.62	0	0	0	0	0	0
7/6/2024 10:00	40505	CRES_T1	7	7	0	0.99	1.05	0.06	0.95	0.98	0	0	0	0	0	0
7/6/2024 10:00	56501	ROCK_T2	1	7	6	0.4	0.25	-0.15	-14.16	-13.77	0	0	0	0	0	0
7/6/2024 10:00	61701	ELIZ_T1	1	8	7	0.3	0	-0.3	1.08	1.09	0	0	0	0	0	0
7/6/2024 10:00	67502	WEWI_T2	8	14	6	0.51	0.81	0.3	0	0	0	0	0	0	0	0
7/6/2024 10:00	67401	WAKE_T2	6	3	-3	1.4	0.27	-1.13	0	0	0	0	0	0	0	0
7/6/2024 10:00	67503	WEWI_T2	19	110	91	0.39	0.47	0.08	0.07	0.09	0	0	0	0	0	0
7/6/2024 10:00	40503	CRES_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 10:00	67402	WAKE_T2	0	1	1	0	0	0	0.16	0.08	1	1	0	600	600	0
7/6/2024 10:00	67605	WARW_T1	0	0	0	0	0	0	-0.85	-0.79	0	0	0	0	0	0
7/6/2024 10:00	40504	CRES_T1	2	12	10	0.1	0.15	0.05	0	0	0	0	0	0	0	0
7/6/2024 10:00	61703	ELIZ_T1	0	10	10	0	0.26	0.26	0	0	0	0	0	0	0	0
7/6/2024 10:00	13501	MCMI_T1	1	0	-1	6	0	-6	0.5	0.53	0	0	0	0	0	0
7/6/2024 10:05	61301	EARL_T1	0	0	0	0	0	0	-1.19	-1.15	2	2	0	1800	1800	0
7/6/2024 10:06	54701	NEBL_T1	4	2	-2	0.25	0	-0.25	0	0	1	1	0	600	600	0
7/6/2024 10:07	56501	ROCK_T2	1	7	6	0.4	0.25	-0.15	-4.59	-4.59	0	0	0	0	0	0
7/6/2024 10:08	55103	WERT_T1	1	1	0	6.6	5.2	-1.4	0	0	0	0	0	0	0	0
7/6/2024 10:08	55101	WERT_T1	0	1	1	0	0	0	-2.23	-2.21	4	4	0	3300	3300	0
7/6/2024 10:08	66703	STRA_T1	8	33	25	0.51	0.42	-0.09	-0.21	-0.17	0	0	0	0	0	0
7/6/2024 10:08	55105	WERT_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 10:08	66701	STRA_T1	10	8	-2	0.58	0.39	-0.19	0	0	0	0	0	0	0	0
7/6/2024 10:09	29402	BELT_T1	83	151	68	0.63	1.13	0.5	0	0	0	0	0	0	0	0
7/6/2024 10:09	59101	WALK_T2	2	1	-1	0.4	0	-0.4	0.26	0.27	0	0	0	0	0	0
7/6/2024 10:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/6/2024 10:09	55405	SHER_T1	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
7/6/2024 10:09	56501	ROCK_T2	1	7	6	0.4	0.25	-0.15	-2.29	-2.29	0	0	0	0	0	0
7/6/2024 10:10	20401	ASHF_T2	4	17	13	0.95	1	0.05	0	0	0	0	0	0	0	0
7/6/2024 10:10	67605	WARW_T1	0	0	0	0	0	0	-0.79	-0.77	0	0	0	0	0	0
7/6/2024 10:10	20402	ASHF_T2	7	80	73	1.41	0.82	-0.59	0	0	0	0	0	0	0	0
7/6/2024 10:10	56801	BENV_T1	8	5	-3	1.08	0.4	-0.68	-0.75	-0.73	2	2	0	1200	1200	0
7/6/2024 10:10	20403	ASHF_T2	4	4	0	0.65	0	-0.65	-0.05	-0.02	0	0	0	0	0	0
7/6/2024 10:10	56803	BENV_T1	4	6	2	0.83	1.53	0.7	0	0	0	0	0	0	0	0
7/6/2024 10:10	29402	BELT_T1	83	151	68	0.63	1.13	0.5	0	0	0	0	0	0	0	0
7/6/2024 10:11	29402	BELT_T1	83	151	68	0.63	1.13	0.5	0	0	0	0	0	0	0	0
7/6/2024 10:11	56803	BENV_T1	4	6	2	0.83	1.53	0.7	0	0	0	0	0	0	0	0
7/6/2024 10:11	61701	ELIZ_T1	1	8	7	0.3	0	-0.3	1.09	1.26	0	0	0	0	0	0
7/6/2024 10:11	56801	BENV_T1	8	5	-3	1.08	0.4	-0.68	-0.75	-0.73	2	2	0	1200	1200	0
7/6/2024 10:11	55105	WERT_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 10:11	55101	WERT_T1	0	1	1	0	0	0	-6.68	-6.62	12	12	0	9900	9900	0
7/6/2024 10:11	61703	ELIZ_T1	0	10	10	0	0.26	0.26	0	0	0	0	0	0	0	0
7/6/2024 10:11	55103	WERT_T1	1	1	0	6.6	5.2	-1.4	0	0	0	0	0	0	0	0
7/6/2024 10:12	29402	BELT_T1	83	151	68	0.63	1.13	0.5	0	0	0	0	0	0	0	0
7/6/2024 10:12	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/6/2024 10:13	20403	ASHF_T2	4	4	0	0.65	0	-0.65	-0.05	-0.02	0	0	0	0	0	0
7/6/2024 10:13	20401	ASHF_T2	4	17	13	0.95	1	0.05	0	0	0	0	0	0	0	0
7/6/2024 10:13	21201	ECAR_T1	1	2	1	0.1	0.65	0.55	0	0	0	0	0	0	0	0
7/6/2024 10:13	21203	ECAR_T1	3	20	17	0.5	0.43	-0.07	-0.16	-0.17	0	0	0	0	0	0
7/6/2024 10:13	20402	ASHF_T2	7	80	73	1.41	0.82	-0.59	0	0	0	0	0	0	0	0
7/6/2024 10:14	61701	ELIZ_T1	1	8	7	0.3	0	-0.3	1.09	1.26	0	0	0	0	0	0
7/6/2024 10:14	46801	HEPB_T2	3	3	0	0.5	0.45	-0.05	0.26	0.33	0	0	0	0	0	0
7/6/2024 10:14	67605	WARW_T1	0	0	0	0	0	0	-1.58	-1.54	0	0	0	0	0	0
7/6/2024 10:14	61703	ELIZ_T1	0	10	10	0	0.26	0.26	0	0	0	0	0	0	0	0
7/6/2024 10:14	64304	LINC_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
7/6/2024 10:14	64302	LINC_T2	2	10	8	0.35	0.3	-0.05	1.64	1.64	0	0	0	0	0	0
7/6/2024 10:15	22903	HARW_T1	22	23	1	1.35	0.65	-0.7	0	0	0	0	0	0	0	0
7/6/2024 10:15	22905	HARW_T1	11	16	5	0.35	0.35	0	0	0	0	0	0	0	0	0
7/6/2024 10:15	22901	HARW_T1	6	37	31	0.35	0.33	-0.02	-0.29	-0.41	1	1	0	1200	1200	0
7/6/2024 10:15	46801	HEPB_T2	3	2	-1	0.6	0.25	-0.35	0.26	0.33	0	0	0	0	0	0
7/6/2024 10:15	52002	LING_T2	0	24	24	0	0	0	0.02	0.02	0	0	0	0	0	0
7/6/2024 10:15	61301	EARL_T1	0	0	0	0	0	0	-1.15	-1.15	2	2	0	1800	1800	0
7/6/2024 10:15	40101	HUNT_T2	5	128	123	0.5	0.52	0.02	-0.71	-0.65	0	0	0	0	0	0
7/6/2024 10:15	52006	LING_T2	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/6/2024 10:16	25503	MADI_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
7/6/2024 10:16	22903	HARW_T1	22	23	1	1.35	0.65	-0.7	0	0	0	0	0	0	0	0
7/6/2024 10:16	22905	HARW_T1	11	16	5	0.35	0.35	0	0	0	0	0	0	0	0	0
7/6/2024 10:16	22901	HARW_T1	6	37	31	0.35	0.33	-0.02	-0.29	-0.41	1	1	0	1200	1200	0
7/6/2024 10:16	52006	LING_T2	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/6/2024 10:16	52002	LING_T2	0	24	24	0	0	0	0.04	0.04	0	0	0	0	0	0
7/6/2024 10:17	40101	HUNT_T2	5	128	123	0.5	0.52	0.02	-0.71	-0.65	0	0	0	0	0	0
7/6/2024 10:17	47101	MARL_T1	34	47	13	0.94	0.9	-0.04	-0.8	-0.8	1	1	0	600	600	0
7/6/2024 10:17	47104	MARL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 10:17	52006	LING_T2	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/6/2024 10:17	52002	LING_T2	0	24	24	0	0	0	0.02	0.02	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/6/2024 10:18	47101	MARL_T1	34	47	13	0.94	0.9	-0.04	-0.8	-0.8	1	1	0	600	600	0
7/6/2024 10:18	47104	MARL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 10:19	47104	MARL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 10:19	52002	LING_T2	0	24	24	0	0	0	0.02	0.02	0	0	0	0	0	0
7/6/2024 10:19	47401	PENS_T1	8	20	12	1.36	0.89	-0.47	0.26	0.25	0	0	0	0	0	0
7/6/2024 10:19	47101	MARL_T1	34	47	13	0.94	0.9	-0.04	-2.41	-2.39	3	3	0	1800	1800	0
7/6/2024 10:19	47403	PENS_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
7/6/2024 10:19	47402	PENS_T1	2	5	3	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
7/6/2024 10:19	52006	LING_T2	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/6/2024 10:20	65604	QVIL_T2	1	2	1	0.2	0.1	-0.1	0.98	0.97	0	0	0	0	0	0
7/6/2024 10:20	65603	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 10:20	47101	MARL_T1	34	47	13	0.94	0.9	-0.04	-0.8	-0.8	1	1	0	600	600	0
7/6/2024 10:20	65601	QVIL_T2	1	3	2	0.9	1.5	0.6	0	0	0	0	0	0	0	0
7/6/2024 10:20	47104	MARL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 10:20	47403	PENS_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
7/6/2024 10:20	65602	QVIL_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/6/2024 10:20	47402	PENS_T1	2	5	3	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
7/6/2024 10:20	47401	PENS_T1	8	20	12	1.36	0.89	-0.47	0.79	0.76	0	0	0	0	0	0
7/6/2024 10:21	66703	STRA_T1	22	49	27	0.43	0.42	-0.01	-0.17	-0.12	0	0	0	0	0	0
7/6/2024 10:21	47401	PENS_T1	8	20	12	1.36	0.89	-0.47	0.25	0.26	0	0	0	0	0	0
7/6/2024 10:21	47402	PENS_T1	2	5	3	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
7/6/2024 10:21	47403	PENS_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
7/6/2024 10:21	66701	STRA_T1	8	11	3	0.8	0.39	-0.41	0	0	0	0	0	0	0	0
7/6/2024 10:21	60502	NMAN_T2	3	3	0	0.53	0.57	0.04	-0.55	-0.47	0	0	0	0	0	0
7/6/2024 10:21	60501	NMAN_T2	3	3	0	4	3.77	-0.23	0	0	0	0	0	0	0	0
7/6/2024 10:22	46301	ROHR_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
7/6/2024 10:22	67804	WLAN_T1	10	10	0	1.31	1.39	0.08	0	0	0	0	0	0	0	0
7/6/2024 10:22	67801	WLAN_T1	52	22	-30	0.38	0.15	-0.23	-1.27	-1.19	0	0	0	0	0	0
7/6/2024 10:22	46302	ROHR_T1	9	15	6	2.54	2.19	-0.35	0.42	0.48	0	0	0	0	0	0
7/6/2024 10:23	67603	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 10:23	67605	WARW_T1	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
7/6/2024 10:24	55408	SHER_T2	1	1	0	1.8	2.1	0.3	-0.53	-0.45	1	1	0	1200	1200	0
7/6/2024 10:24	20402	ASHF_T2	13	86	73	0.72	0.58	-0.14	0	0	0	0	0	0	0	0
7/6/2024 10:24	20401	ASHF_T2	8	80	72	1.05	0.68	-0.37	0	0	0	0	0	0	0	0
7/6/2024 10:24	60201	ATGL_T2	0	1	1	0	0	0	0.2	0.22	2	2	0	900	900	0
7/6/2024 10:24	20403	ASHF_T2	0	8	8	0	1	1	-0.02	0.06	0	0	0	0	0	0
7/6/2024 10:24	61102	BERK_T5	0	0	0	0	0	0	0.97	-0.77	2	4	2	600	2400	1800
7/6/2024 10:25	24901	WHHA_T1	1	2	1	0.9	1.6	0.7	0	0	0	0	0	0	0	0
7/6/2024 10:25	45602	WOOL_T1	84	105	21	0.95	1.12	0.17	-0.21	-0.19	1	1	0	900	900	0
7/6/2024 10:25	24902	WHHA_T1	18	62	44	0.86	0.6	-0.26	0.89	0.92	0	0	0	0	0	0
7/6/2024 10:25	61102	BERK_T5	0	0	0	0	0	0	0.49	-0.38	1	2	1	300	1200	900
7/6/2024 10:26	67603	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 10:26	20402	ASHF_T2	13	86	73	0.72	0.58	-0.14	0	0	0	0	0	0	0	0
7/6/2024 10:26	67605	WARW_T1	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
7/6/2024 10:26	61102	BERK_T5	0	0	0	0	0	0	0.97	-0.77	2	4	2	600	2400	1800
7/6/2024 10:26	20401	ASHF_T2	8	80	72	1.05	0.68	-0.37	0	0	0	0	0	0	0	0
7/6/2024 10:26	20403	ASHF_T2	0	8	8	0	1	1	-0.02	0.06	0	0	0	0	0	0
7/6/2024 10:27	61102	BERK_T5	0	0	0	0	0	0	1.95	-1.53	4	8	4	1200	4800	3600
7/6/2024 10:27	20601	GRWO_T2	13	62	49	0.58	0.43	-0.15	0.15	0.19	0	0	0	0	0	0
7/6/2024 10:27	45602	WOOL_T1	84	105	21	0.95	1.12	0.17	-0.41	-0.39	2	2	0	1800	1800	0
7/6/2024 10:28	56801	BENV_T1	4	4	0	0.38	0.48	0.1	-0.73	-0.72	2	2	0	1200	1200	0
7/6/2024 10:28	56803	BENV_T1	4	7	3	1.53	1.53	0	0	0	0	0	0	0	0	0
7/6/2024 10:30	40901	JESH_T1	3	3	0	0.87	1.27	0.4	0	0	0	0	0	0	0	0
7/6/2024 10:30	40902	JESH_T1	0	1	1	0	0	0	-2.51	-2.53	4	4	0	2400	2400	0
7/6/2024 10:31	64204	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/6/2024 10:31	64203	KINZ_T1	2	2	0	1.95	1.5	-0.45	-0.18	-1.11	2	3	1	900	2100	1200
7/6/2024 10:31	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/6/2024 10:31	64201	KINZ_T1	0	0	0	0	0	0	-0.54	-0.51	4	4	0	2100	2100	0
7/6/2024 10:33	41902	REED_T1	80	127	47	0.61	0.52	-0.09	0.43	0.42	1	1	0	900	900	0
7/6/2024 10:33	64101	REFR_T1	23	27	4	1.78	2.18	0.4	0.76	0.73	0	0	0	0	0	0
7/6/2024 10:33	41901	REED_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 10:34	56501	ROCK_T2	3	6	3	0.3	0.6	0.3	0	0	0	0	0	0	0	0
7/6/2024 10:34	56504	ROCK_T2	0	1	1	0	0.3	0.3	0.37	0.44	0	0	0	0	0	0
7/6/2024 10:34	64101	REFR_T1	23	27	4	1.78	2.18	0.4	2.29	2.18	0	0	0	0	0	0
7/6/2024 10:35	41901	REED_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 10:35	48301	ORWI_T1	2	2	0	3.1	4.4	1.3	0.19	0.2	0	0	0	0	0	0
7/6/2024 10:35	66503	SMAN_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 10:35	66505	SMAN_T2	17	4	-13	0.26	0.4	0.14	0	0	0	0	0	0	0	0
7/6/2024 10:35	46302	ROHR_T1	7	15	8	2.96	2.14	-0.82	0.42	0.48	0	0	0	0	0	0
7/6/2024 10:35	66504	SMAN_T2	7	7	0	0.47	0.37	-0.1	-0.5	-0.25	0	0	0	0	0	0
7/6/2024 10:35	41902	REED_T1	80	127	47	0.61	0.52	-0.09	0.43	0.42	1	1	0	900	900	0
7/6/2024 10:35	46301	ROHR_T1	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
7/6/2024 10:36	41901	REED_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 10:36	41902	REED_T1	80	127	47	0.61	0.52	-0.09	0.43	0.42	1	1	0	900	900	0
7/6/2024 10:36	64101	REFR_T1	23	27	4	1.78	2.18	0.4	2.18	2.14	0	0	0	0	0	0
7/6/2024 10:36	47403	PENS_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
7/6/2024 10:36	47402	PENS_T1	3	5	2	0.63	0.45	-0.18	0	0	0	0	0	0	0	0
7/6/2024 10:36	47401	PENS_T1	12	21	9	0.97	0.77	-0.2	0.26	0.19	0	0	0	0	0	0
7/6/2024 10:37	46302	ROHR_T1	7	15	8	2.96	2.14	-0.82	0.48	0.48	0	0	0	0	0	0
7/6/2024 10:37	46301	ROHR_T1	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
7/6/2024 10:37	42201	SHEN_T2	0	0	0	0	0	0	0.36	0.37	1	1	0	600	600	0
7/6/2024 10:38	55105	WERT_T1	3	4	1	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/6/2024 10:38	55101	WERT_T1	1	8	7	0.3	0.17	-0.13	-2.08	-2.03	4	4	0	3300	3300	0
7/6/2024 10:38	55103	WERT_T1	1	1	0	6.2	5.4	-0.8	0	0	0	0	0	0	0	0
7/6/2024 10:38	58003	WCAR_T1	1	1	0	0.4	0.6	0.2	0.47	0.47	1	1	0	600	600	0
7/6/2024 10:39	64101	REFR_T1	23	27	4	1.78	2.18	0.4	0.73	0.71	0	0	0	0	0	0
7/6/2024 10:39	56801	BENV_T1	3	6	3	0.3	0.5	0.2	-1.44	-1.43	4	4	0	2400	2400	0
7/6/2024 10:39	56803	BENV_T1	6	7	1	1.53	1.63	0.1	0	0	0	0	0	0	0	0
7/6/2024 10:39	66503	SMAN_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 10:39	58003	WCAR_T1	1	1	0	0.4	0.6	0.2	0.47	0.47	1	1	0	600	600	0
7/6/2024 10:39	66504	SMAN_T2	7	7	0	0.47	0.37	-0.1	-0.13	-0.08	0	0	0	0	0	0
7/6/2024 10:39	66505	SMAN_T2	17	4	-13	0.26	0.4	0.14	0	0	0	0	0	0	0	0
7/6/2024 10:39	16302	ALPA_T2	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
7/6/2024 10:40	56803	BENV_T1	6	7	1	1.53	1.63	0.1	0	0	0	0	0	0	0	0
7/6/2024 10:40	56801	BENV_T1	3	6	3	0.3	0.5	0.2	-0.72	-0.71	2	2	0	1200	1200	0
7/6/2024 10:40	16302	ALPA_T2	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
7/6/2024 10:41	64101	REFR_T1	23	27	4	1.78	2.18	0.4	0.73	0.71	0	0	0	0	0	0
7/6/2024 10:41	56801	BENV_T1	3	6	3	0.3	0.5	0.2	-0.72	-0.71	2	2	0	1200	1200	0
7/6/2024 10:41	56803	BENV_T1	6	7	1	1.53	1.63	0.1	0	0	0	0	0	0	0	0
7/6/2024 10:42	16302	ALPA_T2	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
7/6/2024 10:42	56801	BENV_T1	3	6	3	0.3	0.5	0.2	-2.16	-2.14	6	6	0	3600	3600	0
7/6/2024 10:42	56803	BENV_T1	6	7	1	1.53	1.63	0.1	0	0	0	0	0	0	0	0
7/6/2024 10:43	56803	BENV_T1	6	7	1	1.53	1.63	0.1	0	0	0	0	0	0	0	0
7/6/2024 10:43	16302	ALPA_T2	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
7/6/2024 10:43	56801	BENV_T1	3	6	3	0.3	0.5	0.2	-0.72	-0.71	2	2	0	1200	1200	0
7/6/2024 10:43	62102	ELAN_T1	1	1	0	0.2	0.3	0.1	-0.24	-0.26	0	0	0	0	0	0
7/6/2024 10:44	56801	BENV_T1	3	6	3	0.3	0.5	0.2	-0.72	-0.71	2	2	0	1200	1200	0
7/6/2024 10:44	46801	HEPB_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/6/2024 10:44	56803	BENV_T1	6	7	1	1.53	1.63	0.1	0	0	0	0	0	0	0	0
7/6/2024 10:44	46803	HEPB_T2	0	1	1	0	0.3	0.3	0.72	0.75	0	0	0	0	0	0
7/6/2024 10:46	42902	MIDD_T2	55	54	-1	1.47	1.18	-0.29	0	-0.16	0	0	0	0	0	0
7/6/2024 10:46	12704	MACU_T1	5	7	2	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
7/6/2024 10:46	42901	MIDD_T2	2	1	-1	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/6/2024 10:46	12701	MACU_T1	8	9	1	1.04	0.42	-0.62	-0.64	-0.66	1	1	0	1200	1200	0
7/6/2024 10:46	42903	MIDD_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
7/6/2024 10:47	12704	MACU_T1	5	7	2	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
7/6/2024 10:47	42903	MIDD_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
7/6/2024 10:47	42901	MIDD_T2	2	1	-1	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/6/2024 10:47	42902	MIDD_T2	55	54	-1	1.47	1.18	-0.29	0	-0.16	0	0	0	0	0	0
7/6/2024 10:47	12701	MACU_T1	8	9	1	1.04	0.42	-0.62	-0.64	-0.66	1	1	0	1200	1200	0
7/6/2024 10:48	52002	LING_T2	24	37	13	0.25	0.25	0	0.09	0.07	0	0	0	0	0	0
7/6/2024 10:48	64203	KINZ_T1	2	2	0	1.2	1.5	0.3	-1.11	-1.09	3	3	0	2100	2100	0
7/6/2024 10:48	64204	KINZ_T1	1	4	3	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/6/2024 10:48	52006	LING_T2	3	3	0	0.43	0	-0.43	0	0	0	0	0	0	0	0
7/6/2024 10:49	65205	PRIN_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
7/6/2024 10:49	57306	MOAL_T2	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
7/6/2024 10:49	42201	SHEN_T2	0	0	0	0	0	0	0.36	0.37	1	1	0	600	600	0
7/6/2024 10:49	57303	MOAL_T2	1	1	0	9.3	9.3	0	0	0	0	0	0	0	0	0
7/6/2024 10:49	57304	MOAL_T2	40	44	4	1.33	1.44	0.11	-0.36	-0.27	0	0	0	0	0	0
7/6/2024 10:50	16406	MOPO_T1	0	0	0	0	0	0	-0.98	-0.92	2	2	0	2100	2100	0
7/6/2024 10:50	67703	WERN_T2	1	0	-1	0.8	0	-0.8	-0.01	-0.01	1	1	0	900	900	0
7/6/2024 10:50	66701	STRA_T1	11	18	7	0.81	0.79	-0.02	0.75	0.81	1	1	0	600	600	0
7/6/2024 10:50	66703	STRA_T1	49	108	59	0.51	0.64	0.13	0	0	0	0	0	0	0	0
7/6/2024 10:50	16402	MOPO_T1	5	7	2	0.52	0.3	-0.22	0	0	0	0	0	0	0	0
7/6/2024 10:51	66701	STRA_T1	11	18	7	0.81	0.79	-0.02	0.81	0.81	1	1	0	600	600	0
7/6/2024 10:51	44203	POIN_T2	15	28	13	2.18	1.9	-0.28	0.16	-0.13	2	2	0	2100	2100	0
7/6/2024 10:51	42902	MIDD_T2	55	54	-1	1.47	1.18	-0.29	-0.08	-0.04	0	0	0	0	0	0
7/6/2024 10:51	44703	MUNC_T2	19	50	31	0.56	0.4	-0.16	1.29	1.31	0	0	0	0	0	0
7/6/2024 10:51	40602	PIGR_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
7/6/2024 10:51	40603	PIGR_T1	5	34	29	0.46	0.44	-0.02	-0.45	-0.42	0	0	0	0	0	0
7/6/2024 10:51	66703	STRA_T1	49	108	59	0.51	0.64	0.13	0	0	0	0	0	0	0	0
7/6/2024 10:51	42901	MIDD_T2	2	1	-1	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/6/2024 10:51	44701	MUNC_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/6/2024 10:51	67901	WNHO_T2	2	2	0	0.85	0.65	-0.2	0.04	0.08	0	0	0	0	0	0
7/6/2024 10:51	42903	MIDD_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
7/6/2024 10:52	64101	REFR_T1	24	24	0	2.07	2.24	0.17	0.71	0.18	0	0	0	0	0	0
7/6/2024 10:52	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.41	1	1	0	600	600	0
7/6/2024 10:52	40601	PIGR_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
7/6/2024 10:52	40603	PIGR_T1	5	34	29	0.46	0.44	-0.02	0	0	0	0	0	0	0	0
7/6/2024 10:52	40602	PIGR_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
7/6/2024 10:53	14401	SSLA_T1	6	11	5	0.43	0.87	0.44	0	0	0	0	0	0	0	0
7/6/2024 10:53	14403	SSLA_T1	22	21	-1	0.71	0.86	0.15	0.35	-0.19	2	3	1	1200	1800	600
7/6/2024 10:53	66701	STRA_T1	11	18	7	0.81	0.79	-0.02	0.81	0.81	1	1	0	600	600	0
7/6/2024 10:53	66703	STRA_T1	49	108	59	0.51	0.64	0.13	0	0	0	0	0	0	0	0
7/6/2024 10:53	14404	SSLA_T1	54	119	65	0.74	0.8	0.06	0	0	0	0	0	0	0	0
7/6/2024 10:54	67703	WERN_T2	1	0	-1	0.8	0	-0.8	-0.01	-0.01	1	1	0	900	900	0
7/6/2024 10:54	59101	WALK_T2	0	4	4	0	0.3	0.3	0.32	0.33	0	0	0	0	0	0
7/6/2024 10:55	66703	STRA_T1	49	108	59	0.51	0.64	0.13	0	0	0	0	0	0	0	0
7/6/2024 10:55	66701	STRA_T1	11	18	7	0.81	0.79	-0.02	0.81	0.81	1	1	0	600	600	0
7/6/2024 10:56	61704	ELIZ_T2	8	6	-2	0.26	0	-0.26	0	0	0	0	0	0	0	0
7/6/2024 10:56	61702	ELIZ_T2	20	41	21	0.48	0.46	-0.02	-1.11	-1.04	2	2	0	1500	1500	0
7/6/2024 10:58	61703	ELIZ_T1	19	55	36	0.28	0.28	0	0	0	0	0	0	0	0	0
7/6/2024 10:58	61701	ELIZ_T1	3	6	3	0.33	0.4	0.07	1.23	1.22	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/6/2024 10:59	26704	HEML_T2	1	3	2	0.1	0	-0.1	-0.46	-0.43	1	1	0	1200	1200	0
7/6/2024 10:59	25402	LAHA_T2	1	2	1	2.8	1.2	-1.6	-0.12	0.06	0	0	0	0	0	0
7/6/2024 11:00	46803	HEPB_T2	1	0	-1	0.3	0	-0.3	0.75	0.73	0	0	0	0	0	0
7/6/2024 11:00	46801	HEPB_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 11:00	47001	HUGH_T2	4	4	0	4.85	5.75	0.9	-1.83	-1.82	2	2	0	1800	1800	0
7/6/2024 11:00	47002	HUGH_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/6/2024 11:01	63802	HEMP_T1	0	0	0	0	0	0	0.78	0.81	0	0	0	0	0	0
7/6/2024 11:01	46801	HEPB_T2	0	2	2	0	0.1	0.1	0.41	0.37	0	0	0	0	0	0
7/6/2024 11:01	63804	HEMP_T1	3	1	-2	2.5	7.4	4.9	0	0	0	0	0	0	0	0
7/6/2024 11:01	46803	HEPB_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/6/2024 11:02	52002	LING_T2	35	4	-31	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/6/2024 11:02	42903	MIDD_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
7/6/2024 11:02	52004	LING_T2	0	0	0	0	0	0	0.1	0.18	0	0	0	0	0	0
7/6/2024 11:02	42902	MIDD_T2	54	54	0	1.42	1.21	-0.21	-0.16	-0.08	0	0	0	0	0	0
7/6/2024 11:02	52006	LING_T2	3	0	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
7/6/2024 11:02	42901	MIDD_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
7/6/2024 11:03	17001	RIRO_T1	0	0	0	0	0	0	-0.27	-0.24	1	1	0	600	600	0
7/6/2024 11:03	25503	MADI_T1	0	0	0	0	0	0	-0.39	-0.35	0	0	0	0	0	0
7/6/2024 11:04	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 11:04	13501	MCMI_T1	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
7/6/2024 11:04	41902	REED_T1	126	68	-58	0.6	0.6	0	0.44	0.47	1	1	0	900	900	0
7/6/2024 11:05	55408	SHER_T2	2	2	0	1.1	1.25	0.15	-0.5	-1.58	1	1	0	1200	1200	0
7/6/2024 11:05	14801	TREI_T2	315	433	118	3.05	2.98	-0.07	0	0	0	0	0	0	0	0
7/6/2024 11:05	14802	TREI_T2	8	7	-1	0.48	0.87	0.39	0	0	0	0	0	0	0	0
7/6/2024 11:06	61701	ELIZ_T1	6	4	-2	0.33	0.83	0.5	1.22	1.27	0	0	0	0	0	0
7/6/2024 11:06	61703	ELIZ_T1	24	69	45	0.28	0.41	0.13	0	0	0	0	0	0	0	0
7/6/2024 11:07	41902	REED_T1	126	68	-58	0.6	0.6	0	0.47	0.47	1	1	0	900	900	0
7/6/2024 11:07	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 11:08	25801	SUTR_T2	0	11	11	0	0.6	0.6	-0.13	-0.11	0	0	0	0	0	0
7/6/2024 11:08	44203	POIN_T2	28	26	-2	1.86	3.21	1.35	-0.13	-0.11	2	2	0	2100	2100	0
7/6/2024 11:09	15001	BLMO_T1	5	54	49	0.28	0.35	0.07	0	0	0	0	0	0	0	0
7/6/2024 11:09	60201	ATGL_T2	0	1	1	0	0	0	0.27	0.17	2	2	0	900	900	0
7/6/2024 11:10	46206	DANV_T2	55	68	13	0.86	0.87	0.01	0.74	0.73	2	2	0	2100	2100	0
7/6/2024 11:10	67605	WARM_T1	0	0	0	0	0	0	-0.68	-0.63	0	0	0	0	0	0
7/6/2024 11:10	46203	DANV_T2	2	5	3	0.4	0.77	0.37	-2.14	-2.18	0	0	0	0	0	0
7/6/2024 11:10	46204	DANV_T2	73	130	57	0.36	0.51	0.15	0	0	0	0	0	0	0	0
7/6/2024 11:11	61703	ELIZ_T1	24	69	45	0.28	0.41	0.13	0	0	0	0	0	0	0	0
7/6/2024 11:11	61701	ELIZ_T1	6	4	-2	0.33	0.83	0.5	1.22	1.27	0	0	0	0	0	0
7/6/2024 11:11	46204	DANV_T2	73	130	57	0.36	0.51	0.15	0	0	0	0	0	0	0	0
7/6/2024 11:11	61101	BERK_T5	1	10	9	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/6/2024 11:11	46206	DANV_T2	55	68	13	0.86	0.87	0.01	0	0	0	0	0	0	0	0
7/6/2024 11:11	46203	DANV_T2	2	5	3	0.4	0.77	0.37	-4.28	-4.36	0	0	0	0	0	0
7/6/2024 11:11	61102	BERK_T5	0	0	0	0	0	0	-0.65	-0.63	4	4	0	2400	2400	0
7/6/2024 11:12	46203	DANV_T2	2	5	3	0.4	0.77	0.37	-4.28	-4.36	0	0	0	0	0	0
7/6/2024 11:12	46206	DANV_T2	55	68	13	0.86	0.87	0.01	0.74	0.73	2	2	0	2100	2100	0
7/6/2024 11:12	46204	DANV_T2	73	130	57	0.36	0.51	0.15	0	0	0	0	0	0	0	0
7/6/2024 11:13	64204	KINZ_T1	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
7/6/2024 11:13	46204	DANV_T2	73	130	57	0.36	0.51	0.15	0	0	0	0	0	0	0	0
7/6/2024 11:13	46203	DANV_T2	2	5	3	0.4	0.77	0.37	-2.14	-2.18	0	0	0	0	0	0
7/6/2024 11:13	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:13	46206	DANV_T2	55	68	13	0.86	0.87	0.01	0	0	0	0	0	0	0	0
7/6/2024 11:13	64202	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 11:14	63501	HEID_TBK1-2	0	0	0	0	0	0	0.66	0.69	1	1	0	900	900	0
7/6/2024 11:14	64202	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	64203	KINZ_T1	1	2	1	1.5	0.95	-0.55	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:14	20601	GRWO_T2	45	113	68	0.47	0.81	0.34	0.24	0.3	0	0	0	0	0	0
7/6/2024 11:14	64204	KINZ_T1	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
7/6/2024 11:15	46206	DANV_T2	65	68	3	0.94	0.82	-0.12	0	0	0	0	0	0	0	0
7/6/2024 11:15	47101	MARL_T1	65	108	43	1.43	1.2	-0.23	-0.7	-0.66	1	1	0	600	600	0
7/6/2024 11:15	46801	HEPB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/6/2024 11:15	20601	GRWO_T2	74	113	39	0.81	1.05	0.24	0.24	0.3	0	0	0	0	0	0
7/6/2024 11:15	46204	DANV_T2	113	129	16	0.51	0.63	0.12	0	0	0	0	0	0	0	0
7/6/2024 11:15	46203	DANV_T2	3	7	4	1.47	0.65	-0.82	-2.14	-2.18	0	0	0	0	0	0
7/6/2024 11:15	46803	HEPB_T2	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
7/6/2024 11:15	47104	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 11:15	20602	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 11:16	64202	KINZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 11:16	46206	DANV_T2	65	68	3	0.94	0.82	-0.12	0.74	0.73	2	2	0	2100	2100	0
7/6/2024 11:16	42903	MIDD_T2	2	3	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
7/6/2024 11:16	46204	DANV_T2	113	129	16	0.51	0.63	0.12	0	0	0	0	0	0	0	0
7/6/2024 11:16	46203	DANV_T2	3	7	4	1.47	0.65	-0.82	0	0	0	0	0	0	0	0
7/6/2024 11:16	42901	MIDD_T2	1	3	2	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/6/2024 11:16	64203	KINZ_T1	2	2	0	0.95	1.25	0.3	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:16	64204	KINZ_T1	3	4	1	0.27	0.33	0.06	0	0	0	0	0	0	0	0
7/6/2024 11:16	42902	MIDD_T2	53	53	0	1.2	1.65	0.45	-0.04	-0.07	0	0	0	0	0	0
7/6/2024 11:17	52002	LING_T2	4	4	0	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/6/2024 11:17	52004	LING_T2	0	1	1	0	0	0	0.18	0.16	0	0	0	0	0	0
7/6/2024 11:17	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 11:17	64302	LINC_T2	56	80	24	0.31	0.34	0.03	1.69	1.67	0	0	0	0	0	0
7/6/2024 11:17	64304	LINC_T2	3	11	8	0.63	0.63	0	0	0	0	0	0	0	0	0
7/6/2024 11:18	65604	QVIL_T2	2	2	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
7/6/2024 11:18	64203	KINZ_T1	2	2	0	0.95	1.25	0.3	-1.19	-1.16	3	3	0	2100	2100	0
7/6/2024 11:18	65602	QVIL_T2	1	4	3	0.6	0.75	0.15	0	0	0	0	0	0	0	0
7/6/2024 11:18	64202	KINZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 11:18	64204	KINZ_T1	3	4	1	0.27	0.33	0.06	0	0	0	0	0	0	0	0
7/6/2024 11:18	65603	QVIL_T2	0	1	1	0	0	0	-0.25	-0.2	0	0	0	0	0	0
7/6/2024 11:18	65601	QVIL_T2	16	26	10	0.44	0.46	0.02	0	0	0	0	0	0	0	0
7/6/2024 11:19	42901	MIDD_T2	1	3	2	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/6/2024 11:19	42902	MIDD_T2	53	53	0	1.2	1.65	0.45	-0.04	-0.07	0	0	0	0	0	0
7/6/2024 11:19	44201	POIN_T1	0	0	0	0	0	0	-1.7	-1.72	1	1	0	1200	1200	0
7/6/2024 11:19	42903	MIDD_T2	2	3	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
7/6/2024 11:20	13501	MCMI_T1	0	0	0	0	0	0	0.6	0.62	0	0	0	0	0	0
7/6/2024 11:21	47101	MARL_T1	65	108	43	1.43	1.2	-0.23	-0.7	-0.66	1	1	0	600	600	0
7/6/2024 11:21	47104	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 11:21	44201	POIN_T1	0	0	0	0	0	0	-1.72	-1.72	1	1	0	1200	1200	0
7/6/2024 11:22	55101	WERT_T1	9	10	1	0.93	0.51	-0.42	-1.93	-1.94	4	4	0	3300	3300	0
7/6/2024 11:22	55105	WERT_T1	6	9	3	1.37	0.78	-0.59	0	0	0	0	0	0	0	0
7/6/2024 11:22	55103	WERT_T1	1	2	1	6.4	7.2	0.8	0	0	0	0	0	0	0	0
7/6/2024 11:23	14103	TRUM_T2	187	47	-140	0.68	1.9	1.22	0	0	0	0	0	0	0	0
7/6/2024 11:23	14102	TRUM_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/6/2024 11:23	42201	SHEN_T2	0	1	1	0	0.2	0.2	0.39	0.4	1	1	0	600	600	0
7/6/2024 11:23	14101	TRUM_T2	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
7/6/2024 11:24	55102	WERT_T2	0	2	2	0	0	0	-1.51	-1.46	2	2	0	1200	1200	0
7/6/2024 11:24	56803	BENV_T1	6	9	3	1.95	2.1	0.15	0	0	0	0	0	0	0	0
7/6/2024 11:24	56801	BENV_T1	2	5	3	0.85	0.35	-0.5	-0.72	-0.67	2	2	0	1200	1200	0
7/6/2024 11:25	62102	ELAN_T1	0	1	1	0	0	0	-0.14	-0.08	0	0	0	0	0	0
7/6/2024 11:25	55105	WERT_T1	6	9	3	1.37	0.78	-0.59	0	0	0	0	0	0	0	0
7/6/2024 11:25	61101	BERK_T5	5	10	5	0.4	0.73	0.33	0	0	0	0	0	0	0	0
7/6/2024 11:25	46203	DANV_T2	3	7	4	1.47	0.65	-0.82	-2.18	-2.17	0	0	0	0	0	0
7/6/2024 11:25	55101	WERT_T1	9	10	1	0.93	0.51	-0.42	1.93	1.94	4	4	0	3300	3300	0
7/6/2024 11:25	61102	BERK_T5	0	0	0	0	0	0	-0.32	-0.37	2	2	0	1200	1200	0
7/6/2024 11:25	55103	WERT_T1	1	2	1	6.4	7.2	0.8	0	0	0	0	0	0	0	0
7/6/2024 11:25	46204	DANV_T2	113	129	16	0.51	0.63	0.12	0	0	0	0	0	0	0	0
7/6/2024 11:25	56803	BENV_T1	6	9	3	1.95	2.1	0.15	0	0	0	0	0	0	0	0
7/6/2024 11:25	46206	DANV_T2	65	68	3	0.94	0.82	-0.12	0	0	0	0	0	0	0	0
7/6/2024 11:25	56801	BENV_T1	2	5	3	0.85	0.35	-0.5	-1.44	-1.34	4	4	0	2400	2400	0
7/6/2024 11:26	56803	BENV_T1	6	9	3	1.95	2.1	0.15	0	0	0	0	0	0	0	0
7/6/2024 11:26	46203	DANV_T2	3	7	4	1.47	0.65	-0.82	-4.36	-4.35	0	0	0	0	0	0
7/6/2024 11:26	46204	DANV_T2	113	129	16	0.51	0.63	0.12	0	0	0	0	0	0	0	0
7/6/2024 11:26	56801	BENV_T1	2	5	3	0.85	0.35	-0.5	-1.44	-1.34	4	4	0	2400	2400	0
7/6/2024 11:26	46206	DANV_T2	65	68	3	0.94	0.82	-0.12	0.73	0.77	2	2	0	2100	2100	0
7/6/2024 11:27	55102	WERT_T2	0	2	2	0	0	0	-1.51	-1.46	2	2	0	1200	1200	0
7/6/2024 11:27	56801	BENV_T1	2	5	3	0.85	0.35	-0.5	-0.72	-0.67	2	2	0	1200	1200	0
7/6/2024 11:27	46206	DANV_T2	65	68	3	0.94	0.82	-0.12	0	0	0	0	0	0	0	0
7/6/2024 11:27	56803	BENV_T1	6	9	3	1.95	2.1	0.15	0	0	0	0	0	0	0	0
7/6/2024 11:27	46204	DANV_T2	113	129	16	0.51	0.63	0.12	0	0	0	0	0	0	0	0
7/6/2024 11:27	46203	DANV_T2	3	7	4	1.47	0.65	-0.82	-4.36	-4.35	0	0	0	0	0	0
7/6/2024 11:28	56801	BENV_T1	2	5	3	0.85	0.35	-0.5	-0.72	-0.67	2	2	0	1200	1200	0
7/6/2024 11:28	56803	BENV_T1	6	9	3	1.95	2.1	0.15	0	0	0	0	0	0	0	0
7/6/2024 11:29	52404	GRPA_T2	2	9	7	0.15	0.35	0.2	0	0	0	0	0	0	0	0
7/6/2024 11:29	40101	HUNT_T2	159	176	17	0.68	0.56	-0.12	-0.73	-0.7	0	0	0	0	0	0
7/6/2024 11:29	52403	GRPA_T2	228	213	-15	1.17	0.82	-0.35	-0.24	-0.64	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/6/2024 11:29	52401	GRPA_T2	70	53	-17	0.8	0.46	-0.34	0	0	0	0	0	0	0	0
7/6/2024 11:29	52402	GRPA_T2	90	102	12	1.4	1.53	0.13	0	0	0	0	0	0	0	0
7/6/2024 11:30	52402	GRPA_T2	101	96	-5	1.86	1.48	-0.38	0	0	0	0	0	0	0	0
7/6/2024 11:30	52401	GRPA_T2	48	46	-2	0.59	0.39	-0.2	-0.67	-0.68	0	0	0	0	0	0
7/6/2024 11:30	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 11:30	52403	GRPA_T2	213	119	-94	1.18	0.72	-0.46	0	0	0	0	0	0	0	0
7/6/2024 11:30	52404	GRPA_T2	4	9	5	0.38	0.1	-0.28	0	0	0	0	0	0	0	0
7/6/2024 11:31	52404	GRPA_T2	4	9	5	0.38	0.1	-0.28	-0.38	-0.34	0	0	0	0	0	0
7/6/2024 11:31	52402	GRPA_T2	101	96	-5	1.86	1.48	-0.38	0	0	0	0	0	0	0	0
7/6/2024 11:31	52401	GRPA_T2	48	46	-2	0.59	0.39	-0.2	0	0	0	0	0	0	0	0
7/6/2024 11:31	52403	GRPA_T2	213	119	-94	1.18	0.72	-0.46	0	0	0	0	0	0	0	0
7/6/2024 11:32	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 11:32	12803	MICK_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
7/6/2024 11:32	52002	LING_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
7/6/2024 11:32	52004	LING_T2	0	1	1	0	0	0	0.32	0.36	0	0	0	0	0	0
7/6/2024 11:32	12801	MICK_T1	0	0	0	0	0	0	-0.87	-0.84	1	1	0	600	600	0
7/6/2024 11:34	52401	GRPA_T2	48	46	-2	0.59	0.39	-0.2	0	0	0	0	0	0	0	0
7/6/2024 11:34	64203	KINZ_T1	2	2	0	1.25	0.95	-0.3	-1.16	-1.14	3	3	0	2100	2100	0
7/6/2024 11:34	52402	GRPA_T2	101	96	-5	1.86	1.48	-0.38	0	0	0	0	0	0	0	0
7/6/2024 11:34	52403	GRPA_T2	213	119	-94	1.18	0.72	-0.46	-0.24	-0.64	0	0	0	0	0	0
7/6/2024 11:34	64202	KINZ_T1	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/6/2024 11:34	52404	GRPA_T2	4	9	5	0.38	0.1	-0.28	-0.38	-0.34	0	0	0	0	0	0
7/6/2024 11:34	64204	KINZ_T1	3	5	2	0.43	0.5	0.07	0	0	0	0	0	0	0	0
7/6/2024 11:35	64202	KINZ_T1	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/6/2024 11:35	64204	KINZ_T1	3	5	2	0.43	0.5	0.07	0	0	0	0	0	0	0	0
7/6/2024 11:35	64203	KINZ_T1	2	2	0	1.25	0.95	-0.3	-1.16	-1.14	3	3	0	2100	2100	0
7/6/2024 11:38	65903	SAKR_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
7/6/2024 11:38	65901	SAKR_T2	9	29	20	0.78	0.71	-0.07	0.01	0.07	2	2	0	1500	1500	0
7/6/2024 11:38	43301	WATS_T2	3	3	0	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
7/6/2024 11:38	43304	WATS_T2	10	4	-6	0.41	0.1	-0.31	-0.94	-1.01	1	1	0	600	600	0
7/6/2024 11:39	66701	STRA_T1	12	15	3	0.61	0.75	0.14	0	0	0	0	0	0	0	0
7/6/2024 11:39	60803	BUCK_T1	0	0	0	0	0	0	-0.75	-0.74	1	1	0	600	600	0
7/6/2024 11:39	66703	STRA_T1	38	11	-27	0.42	0.66	0.24	-1.04	-1.13	0	0	0	0	0	0
7/6/2024 11:40	60803	BUCK_T1	0	0	0	0	0	0	-1.5	-1.48	2	2	0	1200	1200	0
7/6/2024 11:41	43304	WATS_T2	10	4	-6	0.41	0.1	-0.31	-1.89	-2.01	2	2	0	1200	1200	0
7/6/2024 11:41	60803	BUCK_T1	0	0	0	0	0	0	-0.75	-0.74	1	1	0	600	600	0
7/6/2024 11:41	43301	WATS_T2	3	3	0	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
7/6/2024 11:42	61102	BERK_T5	0	0	0	0	0	0	-0.37	-0.31	2	2	0	1200	1200	0
7/6/2024 11:42	20602	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 11:42	61101	BERK_T5	10	11	1	0.98	0.71	-0.27	0	0	0	0	0	0	0	0
7/6/2024 11:42	20601	GRWO_T2	113	113	0	1.1	1.04	-0.06	0.27	0.3	0	0	0	0	0	0
7/6/2024 11:43	46206	DANV_T2	64	70	6	0.91	0.75	-0.16	0	0	0	0	0	0	0	0
7/6/2024 11:43	46203	DANV_T2	5	6	1	0.54	0.35	-0.19	-4.35	-4.39	0	0	0	0	0	0
7/6/2024 11:43	46204	DANV_T2	128	135	7	0.87	0.64	-0.23	0	0	0	0	0	0	0	0
7/6/2024 11:45	24702	FLND_T2	8	20	12	0.55	0.92	0.37	-0.35	-0.12	2	2	0	2400	2400	0
7/6/2024 11:45	24701	FLND_T2	14	15	1	0.67	0	-0.67	0	0	0	0	0	0	0	0
7/6/2024 11:45	12803	MICK_T1	1	1	0	0.8	0.9	0.1	0.54	0.59	1	1	0	1200	1200	0
7/6/2024 11:45	24703	FLND_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
7/6/2024 11:46	24701	FLND_T2	14	15	1	0.67	0	-0.67	0	0	0	0	0	0	0	0
7/6/2024 11:46	24703	FLND_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
7/6/2024 11:46	24702	FLND_T2	8	20	12	0.55	0.92	0.37	-0.35	-0.12	2	2	0	2400	2400	0
7/6/2024 11:47	45801	HEGI_T1	0	2	2	0	0	0	-0.35	-0.27	1	1	0	900	900	0
7/6/2024 11:47	45802	HEGI_T2	16	15	-1	0.33	0.38	0.05	0.5	0.37	1	1	0	300	300	0
7/6/2024 11:47	42902	MIDD_T2	53	53	0	3.12	2.01	-1.11	-0.09	-0.08	0	0	0	0	0	0
7/6/2024 11:47	42901	MIDD_T2	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/6/2024 11:47	42903	MIDD_T2	3	2	-1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
7/6/2024 11:48	45801	HEGI_T1	0	2	2	0	0	0	-0.35	-0.27	1	1	0	900	900	0
7/6/2024 11:48	65001	NEFF_T2	0	0	0	0	0	0	-0.14	-0.1	1	1	0	1200	1200	0
7/6/2024 11:48	42902	MIDD_T2	53	53	0	3.12	2.01	-1.11	-0.09	-0.08	0	0	0	0	0	0
7/6/2024 11:48	42903	MIDD_T2	3	2	-1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
7/6/2024 11:48	42901	MIDD_T2	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/6/2024 11:49	43202	MVIL_T2	1	5	4	0.3	0.65	0.35	-0.39	-0.38	0	0	0	0	0	0
7/6/2024 11:49	56501	ROCK_T2	9	10	1	0.79	0.64	-0.15	0	0	0	0	0	0	0	0
7/6/2024 11:49	45802	HEGI_T2	16	15	-1	0.33	0.38	0.05	0.5	0.37	1	1	0	300	300	0
7/6/2024 11:49	43201	MVIL_T2	12	14	2	2.99	2.75	-0.24	0	0	0	0	0	0	0	0
7/6/2024 11:49	56504	ROCK_T2	7	14	7	0.19	0.33	0.14	0.51	0.62	0	0	0	0	0	0
7/6/2024 11:49	56503	ROCK_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/6/2024 11:50	54503	ENOL_T2	4	9	5	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
7/6/2024 11:50	54506	ENOL_T2	1	1	0	0.1	0	-0.1	-0.13	-0.09	0	1	1	0	600	600
7/6/2024 11:50	42201	SHEN_T2	1	0	-1	0.2	0	-0.2	0.4	0.42	1	1	0	600	600	0
7/6/2024 11:50	67703	WERN_T2	3	5	2	0.27	0.86	0.59	-0.01	-0.01	1	1	0	900	900	0
7/6/2024 11:51	61701	ELIZ_T1	5	15	10	0.26	0.4	0.14	1.42	1.37	0	0	0	0	0	0
7/6/2024 11:51	61703	ELIZ_T1	25	111	86	0.31	0.36	0.05	0	0	0	0	0	0	0	0
7/6/2024 11:51	44203	POIN_T2	15	29	14	3.67	2.33	-1.34	0	0	0	0	0	0	0	0
7/6/2024 11:51	56501	ROCK_T2	9	10	1	0.79	0.64	-0.15	0	0	0	0	0	0	0	0
7/6/2024 11:51	44202	POIN_T2	0	0	0	0	0	0	-0.42	-0.43	1	1	0	1200	1200	0
7/6/2024 11:51	56504	ROCK_T2	7	14	7	0.19	0.33	0.14	1.53	1.85	0	0	0	0	0	0
7/6/2024 11:51	56503	ROCK_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/6/2024 11:53	67204	TEHI_T2	14	11	-3	0.52	0.3	-0.22	0.11	0.16	0	0	0	0	0	0
7/6/2024 11:53	60201	ATGL_T2	0	2	2	0	0	0	0.3	0.39	2	2	0	900	900	0
7/6/2024 11:54	59101	WALK_T2	6	1	-5	0.22	0	-0.22	0.41	0	0	1	1	0	600	600
7/6/2024 11:55	56801	BENV_T1	4	7	3	0.4	0.5	0.1	-1.25	-1.24	4	4	0	2400	2400	0
7/6/2024 11:55	56803	BENV_T1	9	10	1	2.34	2.22	-0.12	0	0	0	0	0	0	0	0
7/6/2024 11:55	59101	WALK_T2	6	1	-5	0.22	0	-0.22	0.41	0	0	1	1	0	600	600
7/6/2024 11:56	56801	BENV_T1	4	7	3	0.4	0.5	0.1	-1.25	-1.24	4	4	0	2400	2400	0
7/6/2024 11:56	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 11:56	44801	EDAN_T2	65	65	0	1	0.83	-0.17	0.98	1	0	0	0	0	0	0
7/6/2024 11:56	64202	KINZ_T1	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/6/2024 11:56	56803	BENV_T1	9	10	1	2.34	2.22	-0.12	0	0	0	0	0	0	0	0
7/6/2024 11:56	64203	KINZ_T1	2	2	0	1.45	1.5	0.05	-1.2	-1.18	3	3	0	2100	2100	0
7/6/2024 11:56	64201	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 11:56	64204	KINZ_T1	4	1	-3	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/6/2024 11:56	60801	BUCK_T1	0	0	0	0	0	0	-0.32	-0.29	1	1	0	600	600	0
7/6/2024 11:57	64201	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 11:57	64204	KINZ_T1	4	1	-3	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/6/2024 11:57	61701	ELIZ_T1	5	15	10	0.26	0.4	0.14	1.42	1.37	0	0	0	0	0	0
7/6/2024 11:57	61703	ELIZ_T1	25	111	86	0.31	0.36	0.05	0	0	0	0	0	0	0	0
7/6/2024 11:57	60201	ATGL_T2	0	2	2	0	0	0	0.3	0.39	2	2	0	900	900	0
7/6/2024 11:57	61704	ELIZ_T2	4	13	9	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
7/6/2024 11:57	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 11:57	61702	ELIZ_T2	26	35	9	0.59	0.54	-0.05	-1.02	-1.03	2	2	0	1500	1500	0
7/6/2024 11:57	56801	BENV_T1	4	7	3	0.4	0.5	0.1	-0.63	-0.62	2	2	0	1200	1200	0
7/6/2024 11:57	64203	KINZ_T1	2	2	0	1.45	1.5	0.05	-1.2	-1.18	3	3	0	2100	2100	0
7/6/2024 11:57	64202	KINZ_T1	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/6/2024 11:57	60803	BUCK_T1	0	0	0	0	0	0	-0.74	-0.74	1	1	0	600	600	0
7/6/2024 11:57	44801	EDAN_T2	65	65	0	1	0.83	-0.17	0.98	1	0	0	0	0	0	0
7/6/2024 11:57	56803	BENV_T1	9	10	1	2.34	2.22	-0.12	0	0	0	0	0	0	0	0
7/6/2024 11:59	56803	BENV_T1	9	10	1	2.34	2.22	-0.12	0	0	0	0	0	0	0	0
7/6/2024 11:59	56801	BENV_T1	4	7	3	0.4	0.5	0.1	-0.63	-0.62	2	2	0	1200	1200	0
7/6/2024 12:02	60504	NMAN_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/6/2024 12:02	44701	MUNC_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 12:02	44703	MUNC_T2	38	40	2	0.79	0.61	-0.18	1.31	1.35	0	0	0	0	0	0
7/6/2024 12:02	60502	NMAN_T2	11	7	-4	0.2	0.15	-0.05	-0.61	-0.59	0	0	0	0	0	0
7/6/2024 12:02	60501	NMAN_T2	4	5	1	2.53	3.17	0.64	0	0	0	0	0	0	0	0
7/6/2024 12:04	51004	NHAR_T1	2	3	1	3.85	3.8	-0.05	0	0	0	0	0	0	0	0
7/6/2024 12:04	42903	MIDD_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/6/2024 12:04	42902	MIDD_T2	53	53	0	2.37	1.37	-1	-0.08	-0.09	0	0	0	0	0	0
7/6/2024 12:04	51003	NHAR_T1	0	0	0	0	0	0	-2.64	-2.61	1	1	0	1200	1200	0
7/6/2024 12:04	42901	MIDD_T2	2	2	0	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
7/6/2024 12:05	60504	NMAN_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/6/2024 12:05	60501	NMAN_T2	4	5	1	2.53	3.17	0.64	0	0	0	0	0	0	0	0
7/6/2024 12:05	13606	RICH_T2	22	37	15	1.35	1.19	-0.16	0.45	0.51	0	0	0	0	0	0
7/6/2024 12:05	27605	PIRI_T2	315	457	142	0.97	0.96	-0.01	2.91	3	0	0	0	0	0	0
7/6/2024 12:05	60502	NMAN_T2	11	7	-4	0.2	0.15	-0.05	-0.61	-0.59	0	0	0	0	0	0
7/6/2024 12:05	13601	RICH_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 12:05	13501	MCMI_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
7/6/2024 12:05	27603	PIRI_T2	3	1	-2	0.63	0	-0.63	0	0	0	0	0	0	0	0
7/6/2024 12:06	65501	MOJO_T1	0	0	0	0	0	0	-0.64	-0.71	1	1	0	900	900	0
7/6/2024 12:09	67201	TEHI_T1	1	2	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/6/2024 12:09	67203	TEHI_T1	1	2	1	0.1	0.2	0.1	1.49	1.5	1	1	0	900	900	0
7/6/2024 12:10	51603	DUKE_T1	0	0	0	0	0	0	-0.63	-0.72	1	1	0	900	900	0
7/6/2024 12:10	61703	ELIZ_T1	29	121	92	0.37	0.48	0.11	-2.25	-2.29	2	2	0	2100	2100	0
7/6/2024 12:10	61701	ELIZ_T1	1	17	16	0.4	0.31	-0.09	0	0	0	0	0	0	0	0
7/6/2024 12:10	44301	BEAV_T2	90	77	-13	1.04	0.72	-0.32	-0.1	-0.05	1	1	0	600	600	0
7/6/2024 12:10	51601	DUKE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 12:12	61701	ELIZ_T1	1	17	16	0.4	0.31	-0.09	0	0	0	0	0	0	0	0
7/6/2024 12:12	11102	EGYP_T1	11	14	3	1.25	1.11	-0.14	0	0	0	0	0	0	0	0
7/6/2024 12:12	51802	EBEN_T2	11	12	1	1.57	0.87	-0.7	0.04	-0.07	1	1	0	900	900	0
7/6/2024 12:12	11104	EGYP_T1	43	8	-35	0.82	1.11	0.29	-0.5	-0.51	1	1	0	900	900	0
7/6/2024 12:12	11101	EGYP_T1	6	5	-1	1.77	2.2	0.43	0	0	0	0	0	0	0	0
7/6/2024 12:12	61703	ELIZ_T1	29	121	92	0.37	0.48	0.11	-2.25	-2.29	2	2	0	2100	2100	0
7/6/2024 12:13	61701	ELIZ_T1	1	17	16	0.4	0.31	-0.09	0	0	0	0	0	0	0	0
7/6/2024 12:13	11101	EGYP_T1	6	5	-1	1.77	2.2	0.43	0	0	0	0	0	0	0	0
7/6/2024 12:13	11104	EGYP_T1	43	8	-35	0.82	1.11	0.29	-0.5	-0.51	1	1	0	900	900	0
7/6/2024 12:13	11102	EGYP_T1	11	14	3	1.25	1.11	-0.14	0	0	0	0	0	0	0	0
7/6/2024 12:13	61703	ELIZ_T1	29	121	92	0.37	0.48	0.11	-4.5	-4.58	4	4	0	4200	4200	0
7/6/2024 12:14	64201	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 12:14	64204	KINZ_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/6/2024 12:14	64202	KINZ_T1	1	2	1	0.1	0	-0.1	1.99	1.99	0	0	0	0	0	0
7/6/2024 12:14	64203	KINZ_T1	2	2	0	0.95	1.5	0.55	0	0	0	0	0	0	0	0
7/6/2024 12:15	61703	ELIZ_T1	111	102	-9	0.47	0.44	-0.03	-2.25	-2.29	2	2	0	2100	2100	0
7/6/2024 12:15	20601	GRWO_T2	85	111	26	0.79	0.99	0.2	0.26	0.26	0	0	0	0	0	0
7/6/2024 12:15	61701	ELIZ_T1	15	11	-4	0.33	0.34	0.01	0	0	0	0	0	0	0	0
7/6/2024 12:16	64203	KINZ_T1	1	2	1	1.5	1.2	-0.3	-1.18	-1.14	3	3	0	2100	2100	0
7/6/2024 12:16	40601	PIGR_T1	11	14	3	0.5	0.55	0.05	0.35	0.34	0	0	0	0	0	0
7/6/2024 12:16	52006	LING_T2	2	5	3	0.15	0.27	0.12	0	0	0	0	0	0	0	0
7/6/2024 12:16	64202	KINZ_T1	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/6/2024 12:16	52004	LING_T2	1	2	1	3.1	0.1	-3	0	0	0	0	0	0	0	0
7/6/2024 12:16	52002	LING_T2	8	14	6	0.38	0.2	-0.18	-0.51	-0.47	1	1	0	900	900	0
7/6/2024 12:16	64204	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/6/2024 12:16	40603	PIGR_T1	42	53	11	1.07	0.99	-0.08	0	0	0	0	0	0	0	0
7/6/2024 12:16	64201	KINZ_T1	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/6/2024 12:16	13103	NHAM_T2	22	29	7	0.88	1.04	0.16	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/6/2024 12:16	13102	NHAM_T2	4	16	12	1.08	0.6	-0.48	0	0	0	0	0	0	0	0
7/6/2024 12:16	40602	PIGR_T1	3	2	-1	0.47	0.8	0.33	0	0	0	0	0	0	0	0
7/6/2024 12:16	13105	NHAM_T2	185	274	89	1	1.07	0.07	-1.39	-1.4	1	1	0	1200	1200	0
7/6/2024 12:17	64204	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/6/2024 12:17	64203	KINZ_T1	1	2	1	1.5	1.2	-0.3	-1.18	-1.14	3	3	0	2100	2100	0
7/6/2024 12:17	64201	KINZ_T1	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/6/2024 12:17	64202	KINZ_T1	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/6/2024 12:18	14802	TREI_T2	16	23	7	0.71	0.34	-0.37	0	0	0	0	0	0	0	0
7/6/2024 12:18	14801	TREI_T2	416	435	19	3.17	3.26	0.09	0	0	0	0	0	0	0	0
7/6/2024 12:19	14801	TREI_T2	416	435	19	3.17	3.26	0.09	1.63	1.58	0	0	0	0	0	0
7/6/2024 12:19	14802	TREI_T2	16	23	7	0.71	0.34	-0.37	0	0	0	0	0	0	0	0
7/6/2024 12:19	64201	KINZ_T1	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/6/2024 12:19	64202	KINZ_T1	1	2	1	0.3	0	-0.3	1.99	1.99	0	0	0	0	0	0
7/6/2024 12:19	64203	KINZ_T1	1	2	1	1.5	1.2	-0.3	0	0	0	0	0	0	0	0
7/6/2024 12:19	64204	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/6/2024 12:21	57304	MOAL_T2	30	27	-3	1.07	0.82	-0.25	-0.63	-0.69	0	0	0	0	0	0
7/6/2024 12:21	57303	MOAL_T2	1	1	0	9.3	9.4	0.1	0	0	0	0	0	0	0	0
7/6/2024 12:22	12305	LANA_T2	14	30	16	0.79	0.85	0.06	0	0	0	0	0	0	0	0
7/6/2024 12:22	65901	SAKR_T2	19	45	26	0.63	0.61	-0.02	0.04	-0.08	2	2	0	1500	1500	0
7/6/2024 12:22	14802	TREI_T2	16	23	7	0.71	0.34	-0.37	0	0	0	0	0	0	0	0
7/6/2024 12:22	12301	LANA_T2	2	1	-1	0.2	0	-0.2	-1.8	-1.8	1	1	0	1200	1200	0
7/6/2024 12:22	12302	LANA_T2	1	11	10	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/6/2024 12:22	65903	SAKR_T2	2	1	-1	0.8	0.8	0	0	0	0	0	0	0	0	0
7/6/2024 12:22	14801	TREI_T2	416	435	19	3.17	3.26	0.09	0	0	0	0	0	0	0	0
7/6/2024 12:22	12304	LANA_T2	158	192	34	0.93	1.25	0.32	0	0	0	0	0	0	0	0
7/6/2024 12:23	14101	TRUM_T2	0	0	0	0	0	0	0.71	0.68	0	0	0	0	0	0
7/6/2024 12:23	54506	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/6/2024 12:23	14102	TRUM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 12:23	65901	SAKR_T2	19	45	26	0.63	0.61	-0.02	0.04	-0.08	2	2	0	1500	1500	0
7/6/2024 12:23	54505	ENOL_T2	0	0	0	0	0	0	-1.68	-1.65	1	1	0	600	600	0
7/6/2024 12:23	14103	TRUM_T2	2	31	29	0.1	0.39	0.29	0	0	0	0	0	0	0	0
7/6/2024 12:23	54503	ENOL_T2	6	10	4	0.43	0.79	0.36	0	0	0	0	0	0	0	0
7/6/2024 12:23	65903	SAKR_T2	2	1	-1	0.8	0.8	0	0	0	0	0	0	0	0	0
7/6/2024 12:24	20401	ASHF_T2	95	102	7	0.94	0.84	-0.1	0	0	0	0	0	0	0	0
7/6/2024 12:24	20403	ASHF_T2	47	104	57	0.59	0.46	-0.13	0.3	0.35	0	0	0	0	0	0
7/6/2024 12:24	20402	ASHF_T2	242	314	72	0.96	1.15	0.19	0	0	0	0	0	0	0	0
7/6/2024 12:25	61304	EARL_T1	5	5	0	1.54	0	-1.54	0	0	0	0	0	0	0	0
7/6/2024 12:25	67505	WEWI_T1	2	5	3	0.25	0.1	-0.15	0.51	0.6	1	1	0	900	900	0
7/6/2024 12:25	67501	WEWI_T1	5	5	0	1.12	1.65	0.53	0	0	0	0	0	0	0	0
7/6/2024 12:25	61306	EARL_T1	0	0	0	0	0	0	-1.1	-1.09	0	0	0	0	0	0
7/6/2024 12:25	45601	WOOL_T1	0	1	1	0	0.1	0.1	-0.83	-0.8	1	1	0	1200	1200	0
7/6/2024 12:25	45602	WOOL_T1	75	88	13	0.77	0.8	0.03	0	0	0	0	0	0	0	0
7/6/2024 12:26	46204	DANV_T2	138	141	3	1.11	1.12	0.01	0	0	0	0	0	0	0	0
7/6/2024 12:26	46203	DANV_T2	4	6	2	0.35	0	-0.35	-2.12	-2.06	0	0	0	0	0	0
7/6/2024 12:26	46206	DANV_T2	69	78	9	0.78	0.95	0.17	0.75	0.74	2	2	0	2100	2100	0
7/6/2024 12:26	59101	WALK_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/6/2024 12:27	15001	BLMO_T1	22	112	90	0.43	0.48	0.05	0	0	0	0	0	0	0	0
7/6/2024 12:29	46204	DANV_T2	138	141	3	1.11	1.12	0.01	0	0	0	0	0	0	0	0
7/6/2024 12:29	46206	DANV_T2	69	78	9	0.78	0.95	0.17	0	0	0	0	0	0	0	0
7/6/2024 12:29	46203	DANV_T2	4	6	2	0.35	0	-0.35	-2.12	-2.06	0	0	0	0	0	0
7/6/2024 12:30	24702	FLND_T2	8	8	0	1.45	0.41	-1.04	0	0	0	0	0	0	0	0
7/6/2024 12:30	22101	EDEL_T2	1	0	-1	0.1	0	-0.1	1.68	1.69	1	1	0	1200	1200	0
7/6/2024 12:30	46204	DANV_T2	138	146	8	1.27	1.12	-0.15	0	0	0	0	0	0	0	0
7/6/2024 12:30	24701	FLND_T2	8	9	1	0.58	0.1	-0.48	-0.61	-0.59	0	0	0	0	0	0
7/6/2024 12:30	46203	DANV_T2	6	1	-5	0.4	0	-0.4	-2.12	-2.06	0	0	0	0	0	0
7/6/2024 12:30	24703	FLND_T2	1	4	3	1.5	0.65	-0.85	0	0	0	0	0	0	0	0
7/6/2024 12:30	46206	DANV_T2	70	81	11	0.99	0.98	-0.01	0	0	0	0	0	0	0	0
7/6/2024 12:31	24702	FLND_T2	8	8	0	1.45	0.41	-1.04	0	0	0	0	0	0	0	0
7/6/2024 12:31	24703	FLND_T2	1	4	3	1.5	0.65	-0.85	0	0	0	0	0	0	0	0
7/6/2024 12:31	24701	FLND_T2	8	9	1	0.58	0.1	-0.48	-0.61	-0.59	0	0	0	0	0	0
7/6/2024 12:32	42901	MIDD_T2	2	4	2	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
7/6/2024 12:32	64203	KINZ_T1	2	2	0	1.2	1.3	0.1	-1.14	-1.16	3	3	0	2100	2100	0
7/6/2024 12:32	42902	MIDD_T2	53	54	1	1.37	1.23	-0.14	-0.09	-0.08	0	0	0	0	0	0
7/6/2024 12:32	12701	MACU_T1	55	121	66	0.74	0.7	-0.04	-0.48	-0.49	1	1	0	1200	1200	0
7/6/2024 12:32	12704	MACU_T1	10	15	5	0.9	0.93	0.03	0	0	0	0	0	0	0	0
7/6/2024 12:32	64202	KINZ_T1	1	3	2	1.2	0.2	-1	0	0	0	0	0	0	0	0
7/6/2024 12:32	11507	FREE_T2	92	146	54	0.72	0.69	-0.03	0.52	0.63	1	1	0	600	600	0
7/6/2024 12:34	12704	MACU_T1	10	15	5	0.9	0.93	0.03	0	0	0	0	0	0	0	0
7/6/2024 12:34	12701	MACU_T1	55	121	66	0.74	0.7	-0.04	-0.48	-0.49	1	1	0	1200	1200	0
7/6/2024 12:35	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 12:35	56504	ROCK_T2	14	34	20	0.51	0.48	-0.03	0	0	0	0	0	0	0	0
7/6/2024 12:35	56501	ROCK_T2	5	9	4	1.1	0.48	-0.62	-4.08	-4.03	0	0	0	0	0	0
7/6/2024 12:36	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 12:36	56501	ROCK_T2	5	9	4	1.1	0.48	-0.62	-2.04	-2.02	0	0	0	0	0	0
7/6/2024 12:36	56504	ROCK_T2	14	34	20	0.51	0.48	-0.03	0	0	0	0	0	0	0	0
7/6/2024 12:37	56501	ROCK_T2	5	9	4	1.1	0.48	-0.62	-2.02	-2.02	0	0	0	0	0	0
7/6/2024 12:37	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 12:37	56504	ROCK_T2	14	34	20	0.51	0.48	-0.03	0	0	0	0	0	0	0	0
7/6/2024 12:38	49803	UNIV_T1	1	2	1	0.1	0.3	0.2	-1.35	-1.34	0	0	0	0	0	0
7/6/2024 12:38	56501	ROCK_T2	5	9	4	1.1	0.48	-0.62	-2.02	-2.02	0	0	0	0	0	0
7/6/2024 12:38	56504	ROCK_T2	14	34	20	0.51	0.48	-0.03	0	0	0	0	0	0	0	0
7/6/2024 12:38	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 12:38	49804	UNIV_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 12:40	61701	ELIZ_T1	11	7	-4	0.37	1.7	1.33	0	0	0	0	0	0	0	0
7/6/2024 12:40	61703	ELIZ_T1	92	71	-21	0.53	0	-0.53	-2.28	-2.13	2	2	0	2100	2100	0
7/6/2024 12:40	22003	BOHE_T1	0	2	2	0	1.25	1.25	0	0	0	0	0	0	0	0
7/6/2024 12:40	41601	CLEV_T1	0	2	2	0	3	3	0	0	0	0	0	0	0	0
7/6/2024 12:40	22002	BOHE_T1	0	0	0	0	0	0	0.93	0.95	0	0	0	0	0	0
7/6/2024 12:40	22001	BOHE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 12:40	41602	CLEV_T1	95	78	-17	2.28	0.94	-1.34	0	0	2	2	0	1500	1500	0
7/6/2024 12:41	22001	BOHE_T1	0	1	1	0	0	0	0.7	0.66	0	0	0	0	0	0
7/6/2024 12:41	22003	BOHE_T1	0	2	2	0	1.25	1.25	0	0	0	0	0	0	0	0
7/6/2024 12:41	49804	UNIV_T1	0	2	2	0	0.1	0.1	0.45	0.51	0	0	0	0	0	0
7/6/2024 12:41	60201	ATGL_T2	0	1	1	0	0	0	0.36	0.4	2	2	0	900	900	0
7/6/2024 12:41	49803	UNIV_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/6/2024 12:42	24104	EHAZ_T1	0	0	0	0	0	0	-1.88	-1.85	1	1	0	1200	1200	0
7/6/2024 12:42	24105	EHAZ_T1	4	4	0	7.8	7.73	-0.07	0	0	0	0	0	0	0	0
7/6/2024 12:42	24101	EHAZ_T1	27	26	-1	0.57	0.88	0.31	0	0	0	0	0	0	0	0
7/6/2024 12:42	24102	EHAZ_T1	23	25	2	2.21	1.57	-0.64	0	0	0	0	0	0	0	0
7/6/2024 12:44	61701	ELIZ_T1	11	7	-4	0.37	1.7	1.33	1.12	1.14	0	0	0	0	0	0
7/6/2024 12:44	61703	ELIZ_T1	92	71	-21	0.53	0	-0.53	0	0	0	0	0	0	0	0
7/6/2024 12:44	64201	KINZ_T1	0	0	0	0	0	0	-0.4	-0.36	4	4	0	2100	2100	0
7/6/2024 12:44	64202	KINZ_T1	1	3	2	1.2	0.2	-1	0	0	0	0	0	0	0	0
7/6/2024 12:44	64203	KINZ_T1	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
7/6/2024 12:44	58803	COCO_T1	6	15	9	0.48	0.26	-0.22	-0.49	-0.43	1	1	0	600	600	0
7/6/2024 12:46	52402	GRPA_T2	94	102	8	1.21	1.55	0.34	-0.36	-0.37	0	0	0	0	0	0
7/6/2024 12:46	52404	GRPA_T2	17	43	26	0.38	0.4	0.02	0	0	0	0	0	0	0	0
7/6/2024 12:46	52401	GRPA_T2	76	99	23	0.75	0.99	0.24	0	0	0	0	0	0	0	0
7/6/2024 12:46	52403	GRPA_T2	77	153	76	0.83	1.17	0.34	0	0	0	0	0	0	0	0
7/6/2024 12:47	47002	HUGH_T2	4	3	-1	0.93	0.7	-0.23	0	0	0	0	0	0	0	0
7/6/2024 12:47	40101	HUNT_T2	241	144	-97	0.71	0.53	-0.18	-0.93	-0.94	0	0	0	0	0	0
7/6/2024 12:47	47001	HUGH_T2	6	6	0	3.32	4.06	0.74	-0.79	-0.82	1	1	0	900	900	0
7/6/2024 12:48	52401	GRPA_T2	76	99	23	0.75	0.99	0.24	-0.67	-0.68	0	0	0	0	0	0
7/6/2024 12:48	52404	GRPA_T2	17	43	26	0.38	0.4	0.02	0	0	0	0	0	0	0	0
7/6/2024 12:48	52402	GRPA_T2	94	102	8	1.21	1.55	0.34	0	0	0	0	0	0	0	0
7/6/2024 12:48	52403	GRPA_T2	77	153	76	0.83	1.17	0.34	0	0	0	0	0	0	0	0
7/6/2024 12:50	66902	SHIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/6/2024 12:50	23401	HONE_T2	5	10	5	0.68	0.75	0.07	0.16	0.12	0	0	0	0	0	0
7/6/2024 12:50	46101	MACI_T2	0	0	0	0	0	0	0.42	0.42	1	1	0	1200	1200	0
7/6/2024 12:50	66901	SHIL_T2	0	0	0	0	0	0	-1.44	-1.4	0	0	0	0	0	0
7/6/2024 12:51	66505	SMAN_T2	29	210	181	0.44	0.42	-0.02	0.48	0.67	4	4	0	2300	2300	0
7/6/2024 12:51	66504	SMAN_T2	7	8	1	0.57	0.64	0.07	0	0	0	0	0	0	0	0
7/6/2024 12:51	58803	COCO_T1	15	7	-8	0.33	0.26	-0.07	-0.49	-0.43	1	1	0	600	600	0
7/6/2024 12:51	66202	SISP_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/6/2024 12:51	66201	SISP_T2	0	0	0	0	0	0	-0.33	-0.29	0	0	0	0	0	0
7/6/2024 12:51	66503	SMAN_T2	8	8	0	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
7/6/2024 12:52	64203	KINZ_T1	2	2	0	1.45	1.3	-0.15	-1.07	-1.11	3	3	0	2100	2100	0
7/6/2024 12:52	64202	KINZ_T1	1	3	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
7/6/2024 12:52	64201	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 12:53	66505	SMAN_T2	29	210	181	0.44	0.42	-0.02	0.48	0.67	4	4	0	2300	2300	0
7/6/2024 12:53	64202	KINZ_T1	1	3	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
7/6/2024 12:53	64201	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 12:53	66503	SMAN_T2	8	8	0	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
7/6/2024 12:53	57401	SPAN_T1	60	138	78	0.52	0.46	-0.06	-0.72	-0.65	1	1	0	600	600	0
7/6/2024 12:53	64203	KINZ_T1	2	2	0	1.45	1.3	-0.15	-1.07	-1.11	3	3	0	2100	2100	0
7/6/2024 12:53	60701	BREC_T1	6	13	7	0.52	0.76	0.24	-0.24	-0.23	2	2	0	1200	1200	0
7/6/2024 12:53	57403	SPAN_T1	7	10	3	0.71	0.51	-0.2	0	0	0	0	0	0	0	0
7/6/2024 12:53	66504	SMAN_T2	7	8	1	0.57	0.64	0.07	0	0	0	0	0	0	0	0
7/6/2024 12:54	60301	TWVA_T2	7	6	-1	0.69	0.52	-0.17	-1.86	-1.88	2	2	0	1800	1800	0
7/6/2024 12:54	16403	MOPO_T2	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
7/6/2024 12:55	60701	BREC_T1	6	13	7	0.52	0.76	0.24	-0.98	-0.91	8	8	0	4800	4800	0
7/6/2024 12:56	60701	BREC_T1	6	13	7	0.52	0.76	0.24	-0.24	-0.23	2	2	0	1200	1200	0
7/6/2024 12:57	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/6/2024 12:57	46204	DANV_T2	140	145	5	1.12	1.49	0.37	0	0	0	0	0	0	0	0
7/6/2024 12:57	46206	DANV_T2	75	81	6	1.02	1.04	0.02	0.79	0.73	2	2	0	2100	2100	0
7/6/2024 12:57	60803	BUCK_T1	0	0	0	0	0	0	-0.72	-0.71	1	1	0	600	600	0
7/6/2024 12:57	60701	BREC_T1	6	13	7	0.52	0.76	0.24	-0.24	-0.23	2	2	0	1200	1200	0
7/6/2024 12:57	46203	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 12:57	29402	BELT_T1	142	268	126	1.98	2.07	0.09	0	0	0	0	0	0	0	0
7/6/2024 12:57	56802	BENV_T2	1	1	0	0.4	0	-0.4	-0.57	-0.54	0	0	0	0	0	0
7/6/2024 12:58	60701	BREC_T1	6	13	7	0.52	0.76	0.24	-0.49	-0.45	4	4	0	2400	2400	0
7/6/2024 12:59	64704	LITI_T1	0	4	4	0	0.25	0.25	0.42	0.43	1	1	0	600	600	0
7/6/2024 12:59	40101	HUNT_T2	241	144	-97	0.71	0.53	-0.18	-0.94	-0.95	0	0	0	0	0	0
7/6/2024 12:59	64701	LITI_T1	21	22	1	2.8	2.55	-0.25	0	0	0	0	0	0	0	0
7/6/2024 13:00	11104	EGYP_T1	6	6	0	1.38	1.94	0.56	0	0	0	0	0	0	0	0
7/6/2024 13:00	11102	EGYP_T1	5	10	5	1.3	0.78	-0.52	-0.56	-0.51	0	0	0	0	0	0
7/6/2024 13:00	11101	EGYP_T1	5	5	0	2.16	2	-0.16	0	0	0	0	0	0	0	0
7/6/2024 13:02	55001	NEWP_T1	50	45	-5	0.95	0.88	-0.07	-0.06	-0.06	0	0	0	0	0	0
7/6/2024 13:02	55002	NEWP_T1	2	3	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
7/6/2024 13:04	42902	MIDD_T2	51	53	2	1.23	1.21	-0.02	-0.1	-0.09	0	0	0	0	0	0
7/6/2024 13:04	42901	MIDD_T2	4	2	-2	0.48	0.55	0.07	0	0	0	0	0	0	0	0
7/6/2024 13:05	65603	QVIL_T2	1	2	1	2	0.1	-1.9	0	0	0	0	0	0	0	0
7/6/2024 13:05	55001	NEWP_T1	50	45	-5	0.95	0.88	-0.07	-0.06	-0.06	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/6/2024 13:05	54602	SUMM_T2	3	12	9	0.47	0.59	0.12	0	0	0	0	0	0	0	0
7/6/2024 13:05	65602	QVIL_T2	4	6	2	0.55	0.55	0	0	0	0	0	0	0	0	0
7/6/2024 13:05	65601	QVIL_T2	46	64	18	0.59	0.49	-0.1	0.69	0.62	1	1	0	900	900	0
7/6/2024 13:05	65604	QVIL_T2	2	7	5	0.25	0.3	0.05	0	0	0	0	0	0	0	0
7/6/2024 13:05	55002	NEWP_T1	2	3	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
7/6/2024 13:05	54601	SUMM_T2	10	8	-2	0.64	1.1	0.46	0	0	3	3	0	3000	3000	0
7/6/2024 13:06	43301	WATS_T2	3	4	1	1.2	1.23	0.03	0	0	0	0	0	0	0	0
7/6/2024 13:06	43304	WATS_T2	4	26	22	0.53	0.53	0	-1.01	-0.97	1	1	0	600	600	0
7/6/2024 13:06	54602	SUMM_T2	3	12	9	0.47	0.59	0.12	0	0	0	0	0	0	0	0
7/6/2024 13:06	44801	EDAN_T2	82	48	-34	0.85	0.67	-0.18	1.12	1.11	0	0	0	0	0	0
7/6/2024 13:06	54601	SUMM_T2	10	8	-2	0.64	1.1	0.46	0	0	3	3	0	3000	3000	0
7/6/2024 13:07	14603	SWHI_T1	4	3	-1	0.65	0	-0.65	-0.01	-0.01	2	2	0	1200	1200	0
7/6/2024 13:07	14601	SWHI_T1	0	6	6	0	0.4	0.4	0	0	0	0	0	0	0	0
7/6/2024 13:07	14605	SWHI_T1	60	91	31	0.83	0.81	-0.02	0	0	0	0	0	0	0	0
7/6/2024 13:08	44203	POIN_T2	19	36	17	2.5	2.23	-0.27	-0.28	-0.34	4	4	0	4200	4200	0
7/6/2024 13:08	54506	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/6/2024 13:08	45302	WBER_T2	31	38	7	0.58	0.76	0.18	1.47	1.48	0	0	0	0	0	0
7/6/2024 13:08	54504	ENOL_T2	0	0	0	0	0	0	-0.97	-0.95	1	1	0	600	600	0
7/6/2024 13:08	54503	ENOL_T2	7	5	-2	0.74	0.58	-0.16	0	0	0	0	0	0	0	0
7/6/2024 13:09	67201	TEHI_T1	2	0	-2	0.1	0	-0.1	0.39	0.45	1	1	0	600	600	0
7/6/2024 13:09	43304	WATS_T2	4	26	22	0.53	0.53	0	-1.01	-0.97	1	1	0	600	600	0
7/6/2024 13:09	43301	WATS_T2	3	4	1	1.2	1.23	0.03	0	0	0	0	0	0	0	0
7/6/2024 13:10	54602	SUMM_T2	3	12	9	0.47	0.59	0.12	0	0	0	0	0	0	0	0
7/6/2024 13:10	54601	SUMM_T2	10	8	-2	0.64	1.1	0.46	0	0	9	9	0	9000	9000	0
7/6/2024 13:11	45302	WBER_T2	31	38	7	0.58	0.76	0.18	1.47	1.48	0	0	0	0	0	0
7/6/2024 13:12	61102	BERK_T5	0	0	0	0	0	0	-0.17	-0.21	2	2	0	1200	1200	0
7/6/2024 13:12	61101	BERK_T5	11	16	5	0.67	1.04	0.37	0	0	0	0	0	0	0	0
7/6/2024 13:13	64201	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 13:13	64203	KINZ_T1	2	2	0	1.3	1.5	0.2	-1.11	-1.08	3	3	0	2100	2100	0
7/6/2024 13:13	64202	KINZ_T1	3	6	3	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
7/6/2024 13:14	24901	WHHA_T1	3	10	7	1	0.85	-0.15	0	0	0	0	0	0	0	0
7/6/2024 13:14	22903	HARW_T1	16	22	6	0.55	0.56	0.01	-0.54	-0.57	0	0	0	0	0	0
7/6/2024 13:14	22905	HARW_T1	60	53	-7	1.02	1.09	0.07	0	0	0	0	0	0	0	0
7/6/2024 13:14	22901	HARW_T1	112	121	9	1.02	1.19	0.17	0	0	0	0	0	0	0	0
7/6/2024 13:14	63801	HEMP_T1	0	1	1	0	0.2	0.2	-0.27	-0.31	1	1	0	900	900	0
7/6/2024 13:14	63804	HEMP_T1	2	3	1	3.9	3.95	0.05	0	0	0	0	0	0	0	0
7/6/2024 13:14	24902	WHHA_T1	226	259	33	1	0.94	-0.06	0.53	0.51	0	0	0	0	0	0
7/6/2024 13:15	64204	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 13:15	64201	KINZ_T1	2	0	-2	1	0	-1	0	0	0	0	0	0	0	0
7/6/2024 13:15	64203	KINZ_T1	2	2	0	1.6	1.35	-0.25	-1.11	-1.08	3	3	0	2100	2100	0
7/6/2024 13:15	64202	KINZ_T1	2	17	15	0.25	0.42	0.17	0	0	0	0	0	0	0	0
7/6/2024 13:18	42902	MIDD_T2	53	54	1	1.31	1.23	-0.08	-0.09	-0.09	0	0	0	0	0	0
7/6/2024 13:18	47002	HUGH_T2	3	0	-3	0.57	0	-0.57	0	0	0	0	0	0	0	0
7/6/2024 13:18	63804	HEMP_T1	2	3	1	4	3.95	-0.05	0	0	0	0	0	0	0	0
7/6/2024 13:18	63802	HEMP_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
7/6/2024 13:18	63803	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 13:18	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/6/2024 13:18	47001	HUGH_T2	5	12	7	4.06	2.96	-1.1	-0.77	-0.78	1	1	0	900	900	0
7/6/2024 13:18	42901	MIDD_T2	2	3	1	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
7/6/2024 13:19	56501	ROCK_T2	10	13	3	0.48	0.58	0.1	-1.97	-2	0	0	0	0	0	0
7/6/2024 13:19	56504	ROCK_T2	70	46	-24	0.62	0.54	-0.08	0	0	0	0	0	0	0	0
7/6/2024 13:19	65501	MOJO_T1	0	0	0	0	0	0	-0.64	-0.62	1	1	0	900	900	0
7/6/2024 13:20	56501	ROCK_T2	10	13	3	0.48	0.58	0.1	-1.97	-2	0	0	0	0	0	0
7/6/2024 13:20	42902	MIDD_T2	53	54	1	1.31	1.23	-0.08	0	0	0	0	0	0	0	0
7/6/2024 13:20	56504	ROCK_T2	70	46	-24	0.62	0.54	-0.08	0	0	0	0	0	0	0	0
7/6/2024 13:20	42901	MIDD_T2	2	3	1	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
7/6/2024 13:20	42903	MIDD_T2	0	0	0	0	0	0	0.62	0.81	0	0	0	0	0	0
7/6/2024 13:21	13604	RICH_T2	0	0	0	0	0	0	-2.01	-2	3	3	0	2100	2100	0
7/6/2024 13:21	13606	RICH_T2	40	41	1	1.39	1.6	0.21	0	0	0	0	0	0	0	0
7/6/2024 13:21	13601	RICH_T2	4	13	9	0.35	0.46	0.11	0	0	0	0	0	0	0	0
7/6/2024 13:22	56504	ROCK_T2	70	46	-24	0.62	0.54	-0.08	0.61	0.61	0	0	0	0	0	0
7/6/2024 13:22	54602	SUMM_T2	10	17	7	0.72	0.67	-0.05	0	0	0	0	0	0	0	0
7/6/2024 13:22	56501	ROCK_T2	10	13	3	0.48	0.58	0.1	0	0	0	0	0	0	0	0
7/6/2024 13:22	54601	SUMM_T2	5	6	1	0.58	0.83	0.25	0	0	3	3	0	3000	3000	0
7/6/2024 13:23	56501	ROCK_T2	10	13	3	0.48	0.58	0.1	-2	-1.96	0	0	0	0	0	0
7/6/2024 13:23	67904	WNHO_T1	0	0	0	0	0	0	-0.71	-0.7	1	1	0	1200	1200	0
7/6/2024 13:23	56504	ROCK_T2	70	46	-24	0.62	0.54	-0.08	0	0	0	0	0	0	0	0
7/6/2024 13:24	40301	TAMA_T3	51	60	9	0.85	0.9	0.05	0	0	0	0	0	0	0	0
7/6/2024 13:24	40302	TAMA_T3	0	0	0	0	0	0	-2.19	-2.2	1	1	0	1200	1200	0
7/6/2024 13:25	56803	BENV_T1	11	13	2	2.5	2.86	0.36	0	0	0	0	0	0	0	0
7/6/2024 13:25	56501	ROCK_T2	10	13	3	0.48	0.58	0.1	0	0	0	0	0	0	0	0
7/6/2024 13:25	56801	BENV_T1	4	4	0	0.38	0.45	0.07	-2.18	-2.23	8	8	0	4800	4800	0
7/6/2024 13:25	56504	ROCK_T2	70	46	-24	0.62	0.54	-0.08	0.61	0.61	0	0	0	0	0	0
7/6/2024 13:26	61701	ELIZ_T1	2	2	0	1.05	1.05	0	1.17	1.16	0	0	0	0	0	0
7/6/2024 13:26	56803	BENV_T1	11	13	2	2.5	2.86	0.36	0	0	0	0	0	0	0	0
7/6/2024 13:26	56801	BENV_T1	4	4	0	0.38	0.45	0.07	-1.09	-1.12	4	4	0	2400	2400	0
7/6/2024 13:28	56803	BENV_T1	11	13	2	2.5	2.86	0.36	-0.28	-0.35	1	1	0	600	600	0
7/6/2024 13:28	56801	BENV_T1	4	4	0	0.38	0.45	0.07	-0.54	-0.56	2	2	0	1200	1200	0
7/6/2024 13:31	28403	HART_T2	0	0	0	0	0	0	-1.48	-1.53	1	1	0	900	900	0
7/6/2024 13:33	47101	MARL_T1	278	368	90	1.35	1.31	-0.04	-0.46	-0.49	1	1	0	600	600	0
7/6/2024 13:33	23403	HONE_T1	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
7/6/2024 13:33	47104	MARL_T1	15	22	7	0.98	0.57	-0.41	0	0	0	0	0	0	0	0
7/6/2024 13:34	44203	POIN_T2	30	45	15	2.02	1.93	-0.09	-0.17	-0.23	2	2	0	2100	2100	0
7/6/2024 13:35	64204	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 13:35	64203	KINZ_T1	2	2	0	1.5	1.35	-0.15	-1.08	-1.1	3	3	0	2100	2100	0
7/6/2024 13:35	64202	KINZ_T1	6	30	24	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
7/6/2024 13:35	64201	KINZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 13:36	56501	ROCK_T2	11	14	3	0.7	0.69	-0.01	0	0	0	0	0	0	0	0
7/6/2024 13:36	64201	KINZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 13:36	64204	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 13:36	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 13:36	57403	SPAN_T1	6	2	-4	0.15	0.4	0.25	0	0	0	0	0	0	0	0
7/6/2024 13:36	64202	KINZ_T1	6	30	24	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
7/6/2024 13:36	56504	ROCK_T2	23	50	27	0.54	0.49	-0.05	0.61	0.61	0	0	0	0	0	0
7/6/2024 13:36	57401	SPAN_T1	77	6	-71	0.46	0.25	-0.21	-1.3	-2.9	2	4	2	1200	3000	1800
7/6/2024 13:36	64203	KINZ_T1	2	2	0	1.5	1.35	-0.15	-1.08	-1.1	3	3	0	2100	2100	0
7/6/2024 13:37	57403	SPAN_T1	6	2	-4	0.15	0.4	0.25	0	0	0	0	0	0	0	0
7/6/2024 13:37	66505	SMAN_T2	49	220	171	0.44	0.45	0.01	0	0	0	0	0	0	0	0
7/6/2024 13:37	66503	SMAN_T2	9	18	9	0.36	0	-0.36	0	0	0	0	0	0	0	0
7/6/2024 13:37	66504	SMAN_T2	12	8	-4	1.03	1.34	0.31	0.04	0	0	0	0	0	0	0
7/6/2024 13:37	57401	SPAN_T1	77	6	-71	0.46	0.25	-0.21	-1.45	-1.48	2	2	0	1500	1500	0
7/6/2024 13:38	57401	SPAN_T1	77	6	-71	0.46	0.25	-0.21	-1.45	-1.48	2	2	0	1500	1500	0
7/6/2024 13:38	57403	SPAN_T1	6	2	-4	0.15	0.4	0.25	0	0	0	0	0	0	0	0
7/6/2024 13:39	56801	BENV_T1	3	4	1	0.67	0.35	-0.32	-0.56	-0.52	2	2	0	1200	1200	0
7/6/2024 13:39	57401	SPAN_T1	77	6	-71	0.46	0.25	-0.21	-2.9	-2.95	4	4	0	3000	3000	0
7/6/2024 13:39	57403	SPAN_T1	6	2	-4	0.15	0.4	0.25	0	0	0	0	0	0	0	0
7/6/2024 13:39	56803	BENV_T1	13	8	-5	2.32	3.6	1.28	0	0	0	0	0	0	0	0
7/6/2024 13:40	14802	TREI_T2	8	5	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/6/2024 13:40	56803	BENV_T1	13	8	-5	2.32	3.6	1.28	0	0	0	0	0	0	0	0
7/6/2024 13:40	56801	BENV_T1	3	4	1	0.67	0.35	-0.32	-0.56	-0.52	2	2	0	1200	1200	0
7/6/2024 13:40	14801	TREI_T2	408	395	-13	2.9	2.65	-0.25	0	0	0	0	0	0	0	0
7/6/2024 13:41	44301	BEAV_T2	96	115	19	0.94	0.85	-0.09	0.01	-0.08	2	2	0	1200	1200	0
7/6/2024 13:41	56501	ROCK_T2	11	14	3	0.7	0.69	-0.01	0	0	0	0	0	0	0	0
7/6/2024 13:41	56803	BENV_T1	13	8	-5	2.32	3.6	1.28	0	0	0	0	0	0	0	0
7/6/2024 13:41	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 13:41	56801	BENV_T1	3	4	1	0.67	0.35	-0.32	-1.67	-1.57	6	6	0	3600	3600	0
7/6/2024 13:41	56504	ROCK_T2	23	50	27	0.54	0.49	-0.05	0.61	0.62	0	0	0	0	0	0
7/6/2024 13:42	60102	COCA_T1	0	0	0	0	0	0	0.31	0.29	2	2	0	1200	1200	0
7/6/2024 13:42	57401	SPAN_T1	77	6	-71	0.46	0.25	-0.21	-1.45	-1.48	2	2	0	1500	1500	0
7/6/2024 13:42	56801	BENV_T1	3	4	1	0.67	0.35	-0.32	-1.12	-1.04	4	4	0	2400	2400	0
7/6/2024 13:42	60101	COCA_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
7/6/2024 13:42	44301	BEAV_T2	96	115	19	0.94	0.85	-0.09	0	-0.04	1	1	0	600	600	0
7/6/2024 13:42	56803	BENV_T1	13	8	-5	2.32	3.6	1.28	0	0	0	0	0	0	0	0
7/6/2024 13:42	57403	SPAN_T1	6	2	-4	0.15	0.4	0.25	0	0	0	0	0	0	0	0
7/6/2024 13:43	21204	ECAR_T2	1	4	3	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 13:43	21206	ECAR_T2	57	108	51	1.67	1.61	-0.06	0.47	0.47	0	0	0	0	0	0
7/6/2024 13:44	56803	BENV_T1	13	8	-5	2.32	3.6	1.28	0	0	0	0	0	0	0	0
7/6/2024 13:44	56801	BENV_T1	3	4	1	0.67	0.35	-0.32	-0.56	-0.52	2	2	0	1200	1200	0
7/6/2024 13:45	52401	GRPA_T2	93	103	10	1.19	0.59	-0.6	0	0	0	0	0	0	0	0
7/6/2024 13:45	52403	GRPA_T2	153	197	44	1.32	1.47	0.15	0	0	0	0	0	0	0	0
7/6/2024 13:45	64203	KINZ_T1	2	2	0	1.35	1.65	0.3	-1.1	-1.02	3	3	0	2100	2100	0
7/6/2024 13:45	64202	KINZ_T1	17	31	14	0.34	0.47	0.13	0	0	0	0	0	0	0	0
7/6/2024 13:45	52402	GRPA_T2	98	100	2	1.49	1.5	0.01	-0.32	-0.34	0	0	0	0	0	0
7/6/2024 13:45	64204	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/6/2024 13:45	52404	GRPA_T2	35	28	-7	0.47	0.34	-0.13	0	0	0	0	0	0	0	0
7/6/2024 13:45	64201	KINZ_T1	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
7/6/2024 13:47	42902	MIDD_T2	54	53	-1	2.01	1.29	-0.72	0	0	0	0	0	0	0	0
7/6/2024 13:47	42901	MIDD_T2	3	3	0	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
7/6/2024 13:47	42903	MIDD_T2	0	2	2	0	0.45	0.45	0.79	0.8	0	0	0	0	0	0
7/6/2024 13:48	45802	HEGI_T2	10	16	6	0.52	0.44	-0.08	-0.15	-0.26	1	1	0	900	900	0
7/6/2024 13:48	52402	GRPA_T2	98	100	2	1.49	1.5	0.01	0	0	0	0	0	0	0	0
7/6/2024 13:48	52404	GRPA_T2	35	28	-7	0.47	0.34	-0.13	0	0	0	0	0	0	0	0
7/6/2024 13:48	52403	GRPA_T2	153	197	44	1.32	1.47	0.15	-0.47	-0.47	0	0	0	0	0	0
7/6/2024 13:48	52401	GRPA_T2	93	103	10	1.19	0.59	-0.6	0	0	0	0	0	0	0	0
7/6/2024 13:49	45802	HEGI_T2	10	16	6	0.52	0.44	-0.08	-0.15	-0.26	1	1	0	900	900	0
7/6/2024 13:49	52006	LING_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/6/2024 13:49	52002	LING_T2	3	13	10	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/6/2024 13:49	52004	LING_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
7/6/2024 13:50	66505	SMAN_T2	113	211	98	0.47	0.42	-0.05	0	0	0	0	0	0	0	0
7/6/2024 13:50	56501	ROCK_T2	12	16	4	0.88	0.72	-0.16	-1.96	-1.91	0	0	0	0	0	0
7/6/2024 13:50	66503	SMAN_T2	0	19	19	0	0.4	0.4	0	0	0	0	0	0	0	0
7/6/2024 13:50	56504	ROCK_T2	44	70	26	0.56	0.51	-0.05	0.61	0.62	0	0	0	0	0	0
7/6/2024 13:50	66504	SMAN_T2	8	14	6	1.51	1.21	-0.3	0.04	0	0	0	0	0	0	0
7/6/2024 13:50	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 13:52	45302	WBER_T2	27	33	6	0.5	0.53	0.03	0	0	0	0	0	0	0	0
7/6/2024 13:52	45303	WBER_T2	0	1	1	0	0	0	-0.82	-0.83	0	0	0	0	0	0
7/6/2024 13:52	56504	ROCK_T2	44	70	26	0.56	0.51	-0.05	1.24	1.27	0	0	0	0	0	0
7/6/2024 13:52	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 13:52	56501	ROCK_T2	12	16	4	0.88	0.72	-0.16	0	0	0	0	0	0	0	0
7/6/2024 13:52	44203	POIN_T2	37	36	-1	1.52	2.77	1.25	-0.21	-0.16	2	2	0	2100	2100	0
7/6/2024 13:54	56504	ROCK_T2	44	70	26	0.56	0.51	-0.05	0	0	0	0	0	0	0	0
7/6/2024 13:54	56501	ROCK_T2	12	16	4	0.88	0.72	-0.16	-5.74	-5.74	0	0	0	0	0	0
7/6/2024 13:54	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/6/2024 13:55	24901	WHHA_T1	2	2	0	1.55	1.7	0.15	0	0	0	0	0	0	0	0
7/6/2024 13:55	24902	WHHA_T1	295	290	-5	1.32	1.11	-0.21	0.54	0.54	0	0	0	0	0	0
7/6/2024 13:59	51004	NHAR_T1	2	8	6	3.85	7.6	3.75	-0.96	-0.95	0	0	0	0	0	0
7/6/2024 14:01	58001	WCAR_T1	0	28	28	0	0	0	-0.71	-0.65	0	0	0	0	0	0
7/6/2024 14:03	61701	ELIZ_T1	2	2	0	1	1.1	0.1	1.24	1.19	0	0	0	0	0	0
7/6/2024 14:05	66103	REAM_T2	0	0	0	0	0	0	0.18	0.17	1	1	0	1200	1200	0
7/6/2024 14:05	56501	ROCK_T2	14	20	6	0.76	0.77	0.01	-1.91	-1.91	0	0	0	0	0	0
7/6/2024 14:05	58201	NEWV_T1	86	83	-3	0.89	0.81	-0.08	0	0	0	0	0	0	0	0
7/6/2024 14:05	56504	ROCK_T2	42	87	45	0.53	0.55	0.02	0	0	0	0	0	0	0	0
7/6/2024 14:05	58202	NEWV_T1	2	3	1	0.2	1	0.8	0.85	0.84	0	0	0	0	0	0
7/6/2024 14:05	56503	ROCK_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
7/6/2024 14:07	12704	MACU_T1	35	50	15	0.69	0.72	0.03	0	0	0	0	0	0	0	0
7/6/2024 14:07	40603	PIGR_T1	51	51	0	1.38	0.95	-0.43	0	0	0	0	0	0	0	0
7/6/2024 14:07	56503	ROCK_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
7/6/2024 14:07	40602	PIGR_T1	11	14	3	0.63	0.61	-0.02	-0.66	-0.68	1	1	0	600	600	0
7/6/2024 14:07	56501	ROCK_T2	14	20	6	0.76	0.77	0.01	0	0	0	0	0	0	0	0
7/6/2024 14:07	67602	WARW_T2	0	0	0	0	0	0	-0.18	-0.1	1	1	0	1200	1200	0
7/6/2024 14:07	56504	ROCK_T2	42	87	45	0.53	0.55	0.02	0.64	0.61	0	0	0	0	0	0
7/6/2024 14:07	40601	PIGR_T1	10	9	-1	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
7/6/2024 14:07	12701	MACU_T1	124	147	23	0.76	0.69	-0.07	-0.46	-0.43	1	1	0	1200	1200	0
7/6/2024 14:08	54602	SUMM_T2	6	26	20	0.55	0.7	0.15	0	0	0	0	0	0	0	0
7/6/2024 14:08	54601	SUMM_T2	5	21	16	1	0.63	-0.37	0	0	9	9	0	9000	9000	0
7/6/2024 14:09	56801	BENV_T1	2	9	7	0.45	0.76	0.31	-0.5	-0.54	2	2	0	1200	1200	0
7/6/2024 14:09	56803	BENV_T1	7	8	1	4.07	3.67	-0.4	0	0	0	0	0	0	0	0
7/6/2024 14:10	56803	BENV_T1	7	8	1	4.07	3.67	-0.4	0	0	0	0	0	0	0	0
7/6/2024 14:10	67903	WNHO_T1	0	0	0	0	0	0	0.35	0.4	1	1	0	1200	1200	0
7/6/2024 14:10	56801	BENV_T1	2	9	7	0.45	0.76	0.31	-1	-1.09	4	4	0	2400	2400	0
7/6/2024 14:10	60201	ATGL_T2	1	2	1	1	0.7	-0.3	0.42	0.36	2	2	0	900	900	0
7/6/2024 14:11	61101	BERK_T5	14	18	4	1.15	0.48	-0.67	0	0	0	0	0	0	0	0
7/6/2024 14:11	56803	BENV_T1	7	8	1	4.07	3.67	-0.4	0	0	0	0	0	0	0	0
7/6/2024 14:11	56801	BENV_T1	2	9	7	0.45	0.76	0.31	-0.5	-0.54	2	2	0	1200	1200	0
7/6/2024 14:11	61701	ELIZ_T1	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 14:11	61703	ELIZ_T1	0	0	0	0	0	0	-2.03	-2.11	2	2	0	2100	2100	0
7/6/2024 14:11	61102	BERK_T5	0	0	0	0	0	0	-0.01	-0.03	2	2	0	1200	1200	0
7/6/2024 14:11	54601	SUMM_T2	5	21	16	1	0.63	-0.37	0	0	0	0	0	0	0	0
7/6/2024 14:11	54602	SUMM_T2	6	26	20	0.55	0.7	0.15	-3.02	-2.96	1	1	0	600	600	0
7/6/2024 14:12	56803	BENV_T1	7	8	1	4.07	3.67	-0.4	0	0	0	0	0	0	0	0
7/6/2024 14:12	67605	WARW_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/6/2024 14:12	56801	BENV_T1	2	9	7	0.45	0.76	0.31	-0.5	-0.54	2	2	0	1200	1200	0
7/6/2024 14:12	67603	WARW_T1	0	0	0	0	0	0	-1.11	-1.08	0	0	0	0	0	0
7/6/2024 14:13	56803	BENV_T1	7	8	1	4.07	3.67	-0.4	0	0	0	0	0	0	0	0
7/6/2024 14:13	56801	BENV_T1	2	9	7	0.45	0.76	0.31	-0.5	-0.54	2	2	0	1200	1200	0
7/6/2024 14:13	61703	ELIZ_T1	0	0	0	0	0	0	-2.03	-2.11	2	2	0	2100	2100	0
7/6/2024 14:13	61701	ELIZ_T1	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 14:14	56803	BENV_T1	7	8	1	4.07	3.67	-0.4	0	0	0	0	0	0	0	0
7/6/2024 14:14	56801	BENV_T1	2	9	7	0.45	0.76	0.31	-0.5	-0.54	2	2	0	1200	1200	0
7/6/2024 14:14	21901	HUMB_T1	17	41	24	0.81	0.79	-0.02	-2.34	-2.33	0	0	0	0	0	0
7/6/2024 14:18	14802	TREI_T2	4	9	5	0.3	0.65	0.35	0	0	0	0	0	0	0	0
7/6/2024 14:18	14801	TREI_T2	408	438	30	2.65	2.82	0.17	0	0	0	0	0	0	0	0
7/6/2024 14:20	14802	TREI_T2	4	9	5	0.3	0.65	0.35	0	0	0	0	0	0	0	0
7/6/2024 14:20	14801	TREI_T2	408	438	30	2.65	2.82	0.17	1.75	1.84	0	0	0	0	0	0
7/6/2024 14:21	14802	TREI_T2	4	9	5	0.3	0.65	0.35	0	0	0	0	0	0	0	0
7/6/2024 14:21	14801	TREI_T2	408	438	30	2.65	2.82	0.17	0	0	0	0	0	0	0	0
7/6/2024 14:22	42001	MNVL_T2	7	10	3	0.31	0.35	0.04	0	0	0	0	0	0	0	0
7/6/2024 14:22	42002	MNVL_T2	1	1	0	3.2	3.1	-0.1	-1.31	-1.34	0	0	0	0	0	0
7/6/2024 14:23	57401	SPAN_T1	3	7	4	0.3	0.44	0.14	-2.86	-2.73	4	4	0	3000	3000	0
7/6/2024 14:23	57403	SPAN_T1	3	19	16	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
7/6/2024 14:23	57404	SPAN_T2	0	3	3	0	0.6	0.6	-1.21	-1.22	1	1	0	1200	1200	0
7/6/2024 14:24	57001	WHHI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 14:24	47402	PENS_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 14:24	47403	PENS_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
7/6/2024 14:24	57003	WHHI_T2	14	16	2	2.32	2.34	0.02	0	0	0	0	0	0	0	0
7/6/2024 14:24	57004	WHHI_T2	0	1	1	0	0.3	0.3	-0.17	-0.18	0	0	0	0	0	0
7/6/2024 14:24	47401	PENS_T1	8	8	0	0.78	1	0.22	1.43	1.47	0	0	0	0	0	0
7/6/2024 14:25	58003	WCAR_T1	0	0	0	0	0	0	0.6	0.61	1	1	0	600	600	0
7/6/2024 14:25	22001	BOHE_T1	0	1	1	0	0	0	0.29	0.33	1	1	0	600	600	0
7/6/2024 14:25	57403	SPAN_T1	3	19	16	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
7/6/2024 14:25	22003	BOHE_T1	1	2	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
7/6/2024 14:25	57401	SPAN_T1	3	7	4	0.3	0.44	0.14	-1.43	-1.37	2	2	0	1500	1500	0
7/6/2024 14:26	58003	WCAR_T1	0	0	0	0	0	0	0.6	0.61	1	1	0	600	600	0
7/6/2024 14:26	57401	SPAN_T1	3	7	4	0.3	0.44	0.14	-1.43	-1.37	2	2	0	1500	1500	0
7/6/2024 14:26	57403	SPAN_T1	3	19	16	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
7/6/2024 14:27	61101	BERK_T5	10	18	8	0.46	1.2	0.74	0	0	0	0	0	0	0	0
7/6/2024 14:27	61102	BERK_T5	0	0	0	0	0	0	-0.03	-0.04	2	2	0	1200	1200	0
7/6/2024 14:28	60902	DONG_T2	2	2	0	0.7	0.5	-0.2	0.8	0.83	0	0	0	0	0	0
7/6/2024 14:28	60901	DONG_T2	113	151	38	1.45	1.25	-0.2	0	0	0	0	0	0	0	0
7/6/2024 14:28	60903	DONG_T2	0	3	3	0	0.25	0.25	0	0	0	0	0	0	0	0
7/6/2024 14:31	45802	HEGI_T2	14	18	4	0.32	0.32	0	-0.26	-0.22	1	1	0	900	900	0
7/6/2024 14:32	43202	MVIL_T2	4	4	0	0.3	0.6	0.3	-0.34	-0.36	0	0	0	0	0	0
7/6/2024 14:32	43201	MVIL_T2	19	36	17	2.44	1.93	-0.51	0	0	0	0	0	0	0	0
7/6/2024 14:33	64203	KINZ_T1	2	2	0	1.8	1.85	0.05	-1.03	-1.03	3	3	0	2100	2100	0
7/6/2024 14:33	64202	KINZ_T1	43	48	5	0.66	0.57	-0.09	0	0	0	0	0	0	0	0
7/6/2024 14:33	43201	MVIL_T2	19	36	17	2.44	1.93	-0.51	0	0	0	0	0	0	0	0
7/6/2024 14:33	43202	MVIL_T2	4	4	0	0.3	0.6	0.3	-0.34	-0.36	0	0	0	0	0	0
7/6/2024 14:33	64201	KINZ_T1	16	49	33	0.3	0.37	0.07	0	0	0	0	0	0	0	0
7/6/2024 14:33	64204	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 14:35	45802	HEGI_T2	14	18	4	0.32	0.32	0	-0.26	-0.22	1	1	0	900	900	0
7/6/2024 14:40	49804	UNIV_T1	4	3	-1	0.45	0.9	0.45	0	0	0	0	0	0	0	0
7/6/2024 14:40	49803	UNIV_T1	2	1	-1	1	0	-1	-1.34	-1.32	0	0	0	0	0	0
7/6/2024 14:42	60201	ATGL_T2	1	1	0	0.7	0.1	-0.6	0.39	0.32	2	2	0	900	900	0
7/6/2024 14:42	61701	ELIZ_T1	2	1	-1	0.95	1.4	0.45	1.18	1.19	0	0	0	0	0	0
7/6/2024 14:43	61701	ELIZ_T1	2	1	-1	0.95	1.4	0.45	0	0	0	0	0	0	0	0
7/6/2024 14:43	61703	ELIZ_T1	0	0	0	0	0	0	-2.1	-2.07	2	2	0	2100	2100	0
7/6/2024 14:47	52401	GRPA_T2	95	94	-1	1.07	0.62	-0.45	-0.62	-0.63	0	0	0	0	0	0
7/6/2024 14:47	52404	GRPA_T2	58	108	50	0.51	0.66	0.15	0	0	0	0	0	0	0	0
7/6/2024 14:47	52402	GRPA_T2	104	104	0	1.66	1.44	-0.22	-0.27	-0.28	0	0	0	0	0	0
7/6/2024 14:47	52403	GRPA_T2	153	214	61	1.62	1.19	-0.43	0	0	0	0	0	0	0	0
7/6/2024 14:48	64101	REFR_T1	27	29	2	2.69	3.22	0.53	0.28	0.28	0	0	0	0	0	0
7/6/2024 14:49	52401	GRPA_T2	95	94	-1	1.07	0.62	-0.45	0	0	0	0	0	0	0	0
7/6/2024 14:49	52404	GRPA_T2	58	108	50	0.51	0.66	0.15	0	0	0	0	0	0	0	0
7/6/2024 14:49	52403	GRPA_T2	153	214	61	1.62	1.19	-0.43	-0.45	-0.45	0	0	0	0	0	0
7/6/2024 14:49	59201	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 14:49	52402	GRPA_T2	104	104	0	1.66	1.44	-0.22	0	0	0	0	0	0	0	0
7/6/2024 14:49	59202	THOM_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
7/6/2024 14:49	51604	DUKE_T2	1	0	-1	0.1	0	-0.1	-1.67	-1.66	1	1	0	900	900	0
7/6/2024 14:50	54603	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 14:50	54602	SUMM_T2	21	33	12	0.35	0.57	0.22	0	0	0	0	0	0	0	0
7/6/2024 14:50	65904	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 14:50	65903	SAKR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/6/2024 14:50	54601	SUMM_T2	10	17	7	0.69	0.64	-0.05	0	0	3	3	0	3000	3000	0
7/6/2024 14:50	53802	MBRG_T2	0	2	2	0	0	0	-0.1	-0.05	0	0	0	0	0	0
7/6/2024 14:50	65901	SAKR_T2	17	23	6	0.69	0.84	0.15	0.07	0.09	2	2	0	1500	1500	0
7/6/2024 14:52	64101	REFR_T1	27	29	2	2.69	3.22	0.53	0.28	0.22	0	0	0	0	0	0
7/6/2024 14:53	54601	SUMM_T2	10	17	7	0.69	0.64	-0.05	0	0	3	3	0	3000	3000	0
7/6/2024 14:53	40603	PIGR_T1	50	80	30	1.32	1.37	0.05	0	0	0	0	0	0	0	0
7/6/2024 14:53	54602	SUMM_T2	21	33	12	0.35	0.57	0.22	0	0	0	0	0	0	0	0
7/6/2024 14:53	40601	PIGR_T1	5	16	11	0.3	0.48	0.18	0	0	0	0	0	0	0	0
7/6/2024 14:53	46301	ROHR_T1	4	5	1	0.35	0.2	-0.15	0.54	0.53	0	0	0	0	0	0
7/6/2024 14:53	46302	ROHR_T1	18	35	17	1.97	1.83	-0.14	0	0	0	0	0	0	0	0
7/6/2024 14:53	40602	PIGR_T1	10	11	1	0.7	0.8	0.1	-0.67	-0.72	1	1	0	600	600	0
7/6/2024 14:53	54603	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 14:54	61102	BERK_T5	0	0	0	0	0	0	0.01	-0.04	2	2	0	1200	1200	0
7/6/2024 14:54	61101	BERK_T5	14	29	15	1.16	1.2	0.04	0	0	0	0	0	0	0	0
7/6/2024 14:55	64203	KINZ_T1	2	2	0	2.4	1.2	-1.2	-1.07	-1.04	3	3	0	2100	2100	0
7/6/2024 14:55	64202	KINZ_T1	46	43	-3	0.66	0.3	-0.36	0	0	0	0	0	0	0	0
7/6/2024 14:55	64204	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/6/2024 14:55	64201	KINZ_T1	42	45	3	0.43	0.24	-0.19	0	0	0	0	0	0	0	0
7/6/2024 14:56	64204	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/6/2024 14:56	64203	KINZ_T1	2	2	0	2.4	1.2	-1.2	-1.07	-1.04	3	3	0	2100	2100	0
7/6/2024 14:56	64201	KINZ_T1	42	45	3	0.43	0.24	-0.19	0	0	0	0	0	0	0	0
7/6/2024 14:56	64202	KINZ_T1	46	43	-3	0.66	0.3	-0.36	0	0	0	0	0	0	0	0
7/6/2024 14:57	43304	WATS_T2	13	61	48	0.44	0.41	-0.03	-0.92	-0.93	1	1	0	600	600	0
7/6/2024 14:57	43301	WATS_T2	6	10	4	0.78	1.03	0.25	0	0	0	0	0	0	0	0
7/6/2024 14:59	53902	HALI_T2	3	7	4	1.2	0.76	-0.44	-1.42	-1.4	0	0	0	0	0	0
7/6/2024 14:59	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/6/2024 14:59	29402	BELT_T1	268	333	65	1.78	1.92	0.14	0	0	0	0	0	0	0	0
7/6/2024 14:59	53901	HALI_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/6/2024 15:00	53901	HALI_T2	1	2	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 15:00	53902	HALI_T2	5	8	3	0.76	0.68	-0.08	-0.47	-0.47	0	0	0	0	0	0
7/6/2024 15:01	58803	COCO_T1	30	64	34	0.3	0.34	0.04	-0.33	-0.32	1	1	0	600	600	0
7/6/2024 15:04	64801	MONE_T2	89	100	11	1.52	1.61	0.09	0.49	0.5	0	0	0	0	0	0
7/6/2024 15:04	25402	LAHA_T2	1	1	0	1.2	1	-0.2	0.16	-0.22	0	0	0	0	0	0
7/6/2024 15:04	64802	MONE_T2	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
7/6/2024 15:05	64801	MONE_T2	89	100	11	1.52	1.61	0.09	0.49	0.5	0	0	0	0	0	0
7/6/2024 15:05	64802	MONE_T2	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
7/6/2024 15:06	56503	ROCK_T2	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/6/2024 15:06	56501	ROCK_T2	19	19	0	1.48	0.94	-0.54	-1.84	-1.87	0	0	0	0	0	0
7/6/2024 15:06	56504	ROCK_T2	44	120	76	0.48	0.54	0.06	0	0	0	0	0	0	0	0
7/6/2024 15:07	66505	SMAN_T2	205	298	93	0.53	0.56	0.03	0	0	0	0	0	0	0	0
7/6/2024 15:07	66504	SMAN_T2	12	18	6	0.72	1.08	0.36	0	0	0	0	0	0	0	0
7/6/2024 15:07	66503	SMAN_T2	59	85	26	0.54	0.6	0.06	1.32	1.38	0	0	0	0	0	0
7/6/2024 15:08	56501	ROCK_T2	19	19	0	1.48	0.94	-0.54	-1.87	-1.85	0	0	0	0	0	0
7/6/2024 15:08	56503	ROCK_T2	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/6/2024 15:08	43301	WATS_T2	5	10	5	0.88	0.67	-0.21	0	0	0	0	0	0	0	0
7/6/2024 15:08	43304	WATS_T2	20	86	66	0.43	0.44	0.01	-0.93	-0.91	1	1	0	600	600	0
7/6/2024 15:08	56504	ROCK_T2	44	120	76	0.48	0.54	0.06	0	0	0	0	0	0	0	0
7/6/2024 15:09	43301	WATS_T2	5	10	5	0.88	0.67	-0.21	0	0	0	0	0	0	0	0
7/6/2024 15:09	43304	WATS_T2	20	86	66	0.43	0.44	0.01	-0.93	-0.91	1	1	0	600	600	0
7/6/2024 15:11	43301	WATS_T2	5	10	5	0.88	0.67	-0.21	0	0	0	0	0	0	0	0
7/6/2024 15:11	43304	WATS_T2	20	86	66	0.43	0.44	0.01	-1.85	-1.83	2	2	0	1200	1200	0
7/6/2024 15:12	51604	DUKE_T2	0	1	1	0	0	0	-1.62	-1.61	1	1	0	900	900	0
7/6/2024 15:14	62105	ELAN_T1	2	4	2	0.85	0.98	0.13	0	0	0	0	0	0	0	0
7/6/2024 15:14	62102	ELAN_T1	2	8	6	0.4	0.7	0.3	0.16	0.13	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/6/2024 15:14	62104	ELAN_T1	1	0	-1	4.6	0	-4.6	0	0	0	0	0	0	0	0
7/6/2024 15:15	53901	HALI_T2	1	2	1	0	0	0	-0.48	-0.48	0	0	0	0	0	0
7/6/2024 15:15	53902	HALI_T2	7	7	0	0.66	0.8	0.14	0	0	0	0	0	0	0	0
7/6/2024 15:16	11505	FREE_T1	8	9	1	0.89	0.57	-0.32	0	0	0	0	0	0	0	0
7/6/2024 15:16	20601	GRWO_T2	127	187	60	1.03	1.03	0	0.34	0.35	0	0	0	0	0	0
7/6/2024 15:16	11502	FREE_T1	1	5	4	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
7/6/2024 15:16	11504	FREE_T1	14	21	7	0.76	1.17	0.41	-1.35	-1.47	2	2	0	2100	2100	0
7/6/2024 15:17	64201	KINZ_T1	8	11	3	0.24	0.12	-0.12	0	0	0	0	0	0	0	0
7/6/2024 15:17	64304	LINC_T2	19	18	-1	0.76	0.46	-0.3	0	0	0	0	0	0	0	0
7/6/2024 15:17	64302	LINC_T2	251	294	43	0.75	0.79	0.04	1.76	1.75	0	0	0	0	0	0
7/6/2024 15:17	64203	KINZ_T1	2	2	0	1.2	1.4	0.2	-1.04	-1.02	3	3	0	2100	2100	0
7/6/2024 15:17	64202	KINZ_T1	3	19	16	0.3	0.47	0.17	0	0	0	0	0	0	0	0
7/6/2024 15:17	64204	KINZ_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/6/2024 15:18	64201	KINZ_T1	8	11	3	0.24	0.12	-0.12	0	0	0	0	0	0	0	0
7/6/2024 15:18	14801	TREI_T2	441	456	15	3.12	3.05	-0.07	1.83	1.91	0	0	0	0	0	0
7/6/2024 15:18	14802	TREI_T2	13	20	7	0.48	0.51	0.03	0	0	0	0	0	0	0	0
7/6/2024 15:18	64204	KINZ_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/6/2024 15:18	64203	KINZ_T1	2	2	0	1.2	1.4	0.2	-1.04	-1.02	3	3	0	2100	2100	0
7/6/2024 15:18	64202	KINZ_T1	3	19	16	0.3	0.47	0.17	0	0	0	0	0	0	0	0
7/6/2024 15:18	45801	HEGI_T1	4	2	-2	0.15	0.2	0.05	-0.23	-0.21	1	1	0	900	900	0
7/6/2024 15:19	45801	HEGI_T1	4	2	-2	0.15	0.2	0.05	-0.23	-0.21	1	1	0	900	900	0
7/6/2024 15:19	44203	POIN_T2	15	20	5	2.7	3.74	1.04	-0.13	-0.16	2	2	0	2100	2100	0
7/6/2024 15:23	43301	WATS_T2	8	14	6	0.64	0.56	-0.08	0	0	0	0	0	0	0	0
7/6/2024 15:23	43302	WATS_T2	0	0	0	0	0	0	-0.63	-0.68	2	2	0	1800	1800	0
7/6/2024 15:23	43304	WATS_T2	61	79	18	0.48	0.49	0.01	0	0	0	0	0	0	0	0
7/6/2024 15:24	54601	SUMM_T2	14	9	-5	0.74	0.6	-0.14	0	0	0	0	0	0	0	0
7/6/2024 15:24	43304	WATS_T2	61	79	18	0.48	0.49	0.01	-0.91	-0.91	1	1	0	600	600	0
7/6/2024 15:24	54602	SUMM_T2	31	40	9	0.56	1.04	0.48	-2.99	-2.98	1	1	0	600	600	0
7/6/2024 15:24	43301	WATS_T2	8	14	6	0.64	0.56	-0.08	0	0	0	0	0	0	0	0
7/6/2024 15:24	54603	SUMM_T2	1	3	2	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/6/2024 15:26	54602	SUMM_T2	31	40	9	0.56	1.04	0.48	-2.99	-2.98	1	1	0	600	600	0
7/6/2024 15:26	54601	SUMM_T2	14	9	-5	0.74	0.6	-0.14	0	0	0	0	0	0	0	0
7/6/2024 15:26	54603	SUMM_T2	1	3	2	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/6/2024 15:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/6/2024 15:27	43402	BENT_T1	6	10	4	1.28	0.43	-0.85	-0.65	-0.62	1	1	0	900	900	0
7/6/2024 15:27	41602	CLEV_T1	84	94	10	1.74	1.8	0.06	0	0	0	0	0	0	0	0
7/6/2024 15:27	51604	DUKE_T2	0	4	4	0	2	2	-1.61	-1.62	1	1	0	900	900	0
7/6/2024 15:27	43401	BENT_T1	40	67	27	1.17	1.13	-0.04	0	0	0	0	0	0	0	0
7/6/2024 15:28	58801	COCO_T2	0	0	0	0	0	0	-1.26	-1.27	2	2	0	2400	2400	0
7/6/2024 15:29	61304	EARL_T1	0	4	4	0	0	0	0.64	0.66	1	1	0	600	600	0
7/6/2024 15:29	61303	EARL_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/6/2024 15:31	20801	LOPO_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
7/6/2024 15:32	52402	GRPA_T2	104	108	4	1.48	1.96	0.48	0	0	0	0	0	0	0	0
7/6/2024 15:32	52404	GRPA_T2	40	41	1	0.57	0.48	-0.09	-0.48	-0.41	0	0	0	0	0	0
7/6/2024 15:32	52403	GRPA_T2	172	203	31	1.36	1.26	-0.1	0	0	0	0	0	0	0	0
7/6/2024 15:32	52401	GRPA_T2	72	138	66	0.66	1.19	0.53	0	0	0	0	0	0	0	0
7/6/2024 15:33	52402	GRPA_T2	104	108	4	1.48	1.96	0.48	0	0	0	0	0	0	0	0
7/6/2024 15:33	52404	GRPA_T2	40	41	1	0.57	0.48	-0.09	0	0	0	0	0	0	0	0
7/6/2024 15:33	52401	GRPA_T2	72	138	66	0.66	1.19	0.53	0	0	0	0	0	0	0	0
7/6/2024 15:33	52403	GRPA_T2	172	203	31	1.36	1.26	-0.1	-0.44	-0.43	0	0	0	0	0	0
7/6/2024 15:34	66505	SMAN_T2	280	218	-62	0.63	0.47	-0.16	0.61	0.35	4	4	0	2300	2300	0
7/6/2024 15:34	66503	SMAN_T2	81	82	1	0.71	0.84	0.13	0	0	0	0	0	0	0	0
7/6/2024 15:34	47802	MOCA_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
7/6/2024 15:34	45801	HEGI_T1	1	7	6	0.2	0.2	0	-0.21	-0.19	1	1	0	900	900	0
7/6/2024 15:34	66504	SMAN_T2	12	27	15	0.86	0.97	0.11	0	0	0	0	0	0	0	0
7/6/2024 15:35	52401	GRPA_T2	72	138	66	0.66	1.19	0.53	0	0	0	0	0	0	0	0
7/6/2024 15:35	45801	HEGI_T1	1	7	6	0.2	0.2	0	-0.21	-0.19	1	1	0	900	900	0
7/6/2024 15:35	52402	GRPA_T2	104	108	4	1.48	1.96	0.48	-0.87	-0.84	1	1	0	600	600	0
7/6/2024 15:35	52404	GRPA_T2	40	41	1	0.57	0.48	-0.09	0	0	0	0	0	0	0	0
7/6/2024 15:35	44203	POIN_T2	20	16	-4	2.48	3.97	1.49	0	0	0	0	0	0	0	0
7/6/2024 15:35	44202	POIN_T2	0	0	0	0	0	0	-0.95	-0.97	2	2	0	1800	1800	0
7/6/2024 15:35	52403	GRPA_T2	172	203	31	1.36	1.26	-0.1	0	0	0	0	0	0	0	0
7/6/2024 15:36	67703	WERN_T2	58	51	-7	0.57	0.67	0.1	-0.01	-0.01	1	1	0	900	900	0
7/6/2024 15:36	67702	WERN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 15:37	67703	WERN_T2	58	51	-7	0.57	0.67	0.1	-0.02	-0.02	2	2	0	1800	1800	0
7/6/2024 15:37	67702	WERN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 15:39	42201	SHEN_T2	0	0	0	0	0	0	0.48	0.47	1	1	0	600	600	0
7/6/2024 15:40	64201	KINZ_T1	8	23	15	0.28	0.31	0.03	0	0	0	0	0	0	0	0
7/6/2024 15:40	64203	KINZ_T1	2	2	0	1.4	1.65	0.25	-1.01	-1.1	3	3	0	2100	2100	0
7/6/2024 15:40	64204	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/6/2024 15:40	64202	KINZ_T1	3	21	18	0.47	0.35	-0.12	0	0	0	0	0	0	0	0
7/6/2024 15:41	64202	KINZ_T1	3	21	18	0.47	0.35	-0.12	0	0	0	0	0	0	0	0
7/6/2024 15:41	64201	KINZ_T1	8	23	15	0.28	0.31	0.03	0	0	0	0	0	0	0	0
7/6/2024 15:41	64204	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/6/2024 15:41	64203	KINZ_T1	2	2	0	1.4	1.65	0.25	-1.01	-1.1	3	3	0	2100	2100	0
7/6/2024 15:44	11405	FARM_T1	102	109	7	0.59	0.74	0.15	0	0	0	0	0	0	0	0
7/6/2024 15:44	11404	FARM_T1	3	2	-1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
7/6/2024 15:44	11406	FARM_T1	14	18	4	1.56	1.38	-0.18	0	0	0	0	0	0	0	0
7/6/2024 15:44	11407	FARM_T1	2	1	-1	0.35	0.1	-0.25	0.4	0.45	0	0	0	0	0	0
7/6/2024 15:44	11801	FRAN_T2	34	48	14	0.78	0.58	-0.2	-0.4	-0.44	0	0	0	0	0	0
7/6/2024 15:44	11402	FARM_T1	13	10	-3	0.78	1.21	0.43	0	0	0	0	0	0	0	0
7/6/2024 15:44	11803	FRAN_T2	174	176	2	1.1	0.88	-0.22	0	0	0	0	0	0	0	0
7/6/2024 15:45	11404	FARM_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/6/2024 15:45	11406	FARM_T1	15	18	3	1.41	1.16	-0.25	0	0	0	0	0	0	0	0
7/6/2024 15:45	45801	HEGI_T1	2	7	5	0.25	0.9	0.65	-0.19	-0.21	1	1	0	900	900	0
7/6/2024 15:45	11402	FARM_T1	8	9	1	1.28	1.17	-0.11	0	0	0	0	0	0	0	0
7/6/2024 15:45	11405	FARM_T1	102	108	6	0.8	0.74	-0.06	-0.17	-0.13	1	1	0	1200	1200	0
7/6/2024 15:45	11407	FARM_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/6/2024 15:46	53902	HALI_T2	4	3	-1	0.8	1.07	0.27	-0.92	-0.92	0	0	0	0	0	0
7/6/2024 15:46	53901	HALI_T2	1	3	2	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/6/2024 15:47	53901	HALI_T2	1	3	2	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/6/2024 15:47	53902	HALI_T2	4	3	-1	0.8	1.07	0.27	-0.92	-0.92	0	0	0	0	0	0
7/6/2024 15:47	45702	LIND_T2	5	5	0	2.48	2.3	-0.18	-0.88	-0.88	0	0	0	0	0	0
7/6/2024 15:48	53902	HALI_T2	4	3	-1	0.8	1.07	0.27	-0.46	-0.46	0	0	0	0	0	0
7/6/2024 15:48	58402	MORO_T1	3	6	3	1.8	0.7	-1.1	-2.02	-1.86	5	5	0	3150	3150	0
7/6/2024 15:48	53901	HALI_T2	1	3	2	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/6/2024 15:48	58401	MORO_T1	10	12	2	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
7/6/2024 15:50	11803	FRAN_T2	175	162	-13	1.2	0.85	-0.35	0	0	0	0	0	0	0	0
7/6/2024 15:50	45801	HEGI_T1	2	7	5	0.25	0.9	0.65	-0.19	-0.21	1	1	0	900	900	0
7/6/2024 15:50	11801	FRAN_T2	46	37	-9	0.83	0.42	-0.41	-0.4	-0.44	0	0	0	0	0	0
7/6/2024 15:51	47402	PENS_T1	2	8	6	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
7/6/2024 15:51	47401	PENS_T1	10	16	6	0.66	0.71	0.05	3.26	3.06	0	0	0	0	0	0
7/6/2024 15:52	47402	PENS_T1	2	8	6	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
7/6/2024 15:52	59101	WALK_T2	0	1	1	0	0	0	-0.29	-0.33	2	2	0	1200	1200	0
7/6/2024 15:52	47401	PENS_T1	10	16	6	0.66	0.71	0.05	1.63	1.53	0	0	0	0	0	0
7/6/2024 15:53	59101	WALK_T2	0	1	1	0	0	0	-0.59	-0.65	4	4	0	2400	2400	0
7/6/2024 15:55	66504	SMAN_T2	12	28	16	0.97	0.65	-0.32	0	0	0	0	0	0	0	0
7/6/2024 15:55	66503	SMAN_T2	61	79	18	0.83	0.7	-0.13	1.33	1.32	0	0	0	0	0	0
7/6/2024 15:55	66505	SMAN_T2	182	215	33	0.51	0.45	-0.06	0	0	0	0	0	0	0	0
7/6/2024 15:58	43401	BENT_T1	66	87	21	0.98	0.93	-0.05	0	0	0	0	0	0	0	0
7/6/2024 15:58	43402	BENT_T1	10	14	4	0.4	0.43	0.03	-0.65	-0.64	1	1	0	900	900	0
7/6/2024 15:59	43401	BENT_T1	66	87	21	0.98	0.93	-0.05	0	0	0	0	0	0	0	0
7/6/2024 15:59	43402	BENT_T1	10	14	4	0.4	0.43	0.03	-0.65	-0.64	1	1	0	900	900	0
7/6/2024 16:00	63401	HONY_T1	0	0	0	0	0	0	0.98	0.64	2	2	0	1200	1200	0
7/6/2024 16:01	64303	LINC_T1	1	2	1	0.1	1.7	1.6	0	0	0	0	0	0	0	0
7/6/2024 16:01	64305	LINC_T1	1	2	1	1.2	1.4	0.2	-0.45	-0.41	0	0	0	0	0	0
7/6/2024 16:01	63401	HONY_T1	0	0	0	0	0	0	0.98	0.64	2	2	0	1200	1200	0
7/6/2024 16:02	55002	NEWP_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/6/2024 16:02	55001	NEWP_T1	65	113	48	0.96	1.21	0.25	0	0.05	0	0	0	0	0	0
7/6/2024 16:03	55003	NEWP_T2	113	117	4	1.16	1.12	-0.04	-0.12	-0.15	0	0	0	0	0	0
7/6/2024 16:04	55002	NEWP_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/6/2024 16:04	55001	NEWP_T1	65	113	48	0.96	1.21	0.25	0	0.05	0	0	0	0	0	0
7/6/2024 16:10	67804	WLAN_T1	19	22	3	2.26	1.9	-0.36	-1.05	-1.07	0	0	0	0	0	0
7/6/2024 16:10	67803	WLAN_T1	26	30	4	0.67	0.61	-0.06	0	0	0	0	0	0	0	0
7/6/2024 16:10	67801	WLAN_T1	357	336	-21	0.68	0.58	-0.1	0	0	0	0	0	0	0	0
7/6/2024 16:11	54602	SUMM_T2	35	32	-3	0.74	1.13	0.39	0	0	0	0	0	0	0	0
7/6/2024 16:11	67801	WLAN_T1	357	336	-21	0.68	0.58	-0.1	0	0	0	0	0	0	0	0
7/6/2024 16:11	51802	EBEN_T2	24	21	-3	0.76	0.79	0.03	0	0	0	0	0	0	0	0
7/6/2024 16:11	43301	WATS_T2	18	13	-5	0.31	0.6	0.29	0	0	0	0	0	0	0	0
7/6/2024 16:11	54603	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 16:11	67803	WLAN_T1	26	30	4	0.67	0.61	-0.06	0	0	0	0	0	0	0	0
7/6/2024 16:11	67804	WLAN_T1	19	22	3	2.26	1.9	-0.36	-1.05	-1.07	0	0	0	0	0	0
7/6/2024 16:11	43304	WATS_T2	52	74	22	0.61	0.52	-0.09	-0.9	-0.91	1	1	0	600	600	0
7/6/2024 16:11	43302	WATS_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/6/2024 16:11	51804	EBEN_T2	5	15	10	1.1	0.54	-0.56	-0.38	-0.34	1	1	0	900	900	0
7/6/2024 16:11	54601	SUMM_T2	14	11	-3	0.49	0.59	0.1	0	0	3	3	0	3000	3000	0
7/6/2024 16:12	51804	EBEN_T2	5	15	10	1.1	0.54	-0.56	-0.75	-0.69	2	2	0	1800	1800	0
7/6/2024 16:12	51802	EBEN_T2	24	21	-3	0.76	0.79	0.03	0	0	0	0	0	0	0	0
7/6/2024 16:13	16005	DORN_T1	5	10	5	0.9	0.67	-0.23	0	0	0	0	0	0	0	0
7/6/2024 16:13	16002	DORN_T2	131	222	91	1.08	1.11	0.03	0.43	0.45	1	1	0	1200	1200	0
7/6/2024 16:13	16006	DORN_T2	48	58	10	1.84	2.06	0.22	0	0	0	0	0	0	0	0
7/6/2024 16:13	16007	DORN_T1	24	63	39	0.31	0.38	0.07	0	0	0	0	0	0	0	0
7/6/2024 16:13	16004	DORN_T1	5	8	3	1.64	0.95	-0.69	0	0	0	0	0	0	0	0
7/6/2024 16:13	16001	DORN_T1	0	0	0	0	0	0	-0.22	-0.26	0	0	0	0	0	0
7/6/2024 16:14	53902	HALI_T2	3	8	5	1.33	1	-0.33	-0.47	-0.48	0	0	0	0	0	0
7/6/2024 16:14	53901	HALI_T2	2	2	0	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/6/2024 16:17	25402	LAHA_T2	1	1	0	1.6	1.1	-0.5	-0.06	-0.24	0	0	0	0	0	0
7/6/2024 16:17	65503	MOJO_T2	71	10	-61	0.7	0.52	-0.18	0.5	0.49	1	1	0	900	900	0
7/6/2024 16:18	43202	MVIL_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
7/6/2024 16:18	43201	MVIL_T2	42	43	1	1.64	1.83	0.19	0	0	0	0	0	0	0	0
7/6/2024 16:18	65503	MOJO_T2	71	10	-61	0.7	0.52	-0.18	0.5	0.49	1	1	0	900	900	0
7/6/2024 16:19	47401	PENS_T1	14	10	-4	0.65	1.06	0.41	3.06	1.32	0	0	0	0	0	0
7/6/2024 16:19	47402	PENS_T1	6	2	-4	1.15	0	-1.15	0	0	0	0	0	0	0	0
7/6/2024 16:21	65903	SAKR_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
7/6/2024 16:21	65901	SAKR_T2	35	96	61	0.62	0.61	-0.01	0	0	0	0	0	0	0	0
7/6/2024 16:21	65902	SAKR_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/6/2024 16:21	65503	MOJO_T2	71	10	-61	0.7	0.52	-0.18	0.49	0.41	1	1	0	900	900	0
7/6/2024 16:21	65904	SAKR_T2	0	0	0	0	0	0	-2.05	-2.07	6	6	0	3000	3000	0
7/6/2024 16:22	47402	PENS_T1	6	2	-4	1.15	0	-1.15	0	0	0	0	0	0	0	0
7/6/2024 16:22	47401	PENS_T1	14	10	-4	0.65	1.06	0.41	1.32	1.29	0	0	0	0	0	0
7/6/2024 16:23	65904	SAKR_T2	0	0	0	0	0	0	-2.05	-2.07	6	6	0	3000	3000	0
7/6/2024 16:23	43301	WATS_T2	10	15	5	0.54	0.93	0.39	0.18	0.16	1	1	0	900	900	0
7/6/2024 16:23	43201	MVIL_T2	42	43	1	1.64	1.83	0.19	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/6/2024 16:23	43304	WATS_T2	63	99	36	0.58	0.56	-0.02	0	0	0	0	0	0	0	0
7/6/2024 16:23	43302	WATS_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/6/2024 16:23	65902	SAKR_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/6/2024 16:23	65903	SAKR_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
7/6/2024 16:23	65901	SAKR_T2	35	96	61	0.62	0.61	-0.01	0	0	0	0	0	0	0	0
7/6/2024 16:23	43202	MVIL_T2	0	0	0	0	0	0	0	-0.33	0	0	0	0	0	0
7/6/2024 16:25	64204	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 16:25	64202	KINZ_T1	25	40	15	0.48	0.22	-0.26	0	0	0	0	0	0	0	0
7/6/2024 16:25	64201	KINZ_T1	19	50	31	0.47	0.38	-0.09	0	0	0	0	0	0	0	0
7/6/2024 16:25	64203	KINZ_T1	2	7	5	2.05	1.85	-0.2	-1.07	-1.06	3	3	0	2100	2100	0
7/6/2024 16:26	64204	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 16:26	64201	KINZ_T1	19	50	31	0.47	0.38	-0.09	0	0	0	0	0	0	0	0
7/6/2024 16:26	64203	KINZ_T1	2	7	5	2.05	1.85	-0.2	-1.07	-1.06	3	3	0	2100	2100	0
7/6/2024 16:26	64202	KINZ_T1	25	40	15	0.48	0.22	-0.26	0	0	0	0	0	0	0	0
7/6/2024 16:27	16301	ALPA_T1	0	6	6	0	0.25	0.25	1.31	1.3	0	0	0	0	0	0
7/6/2024 16:28	16002	DORN_T2	136	241	105	1.12	0.98	-0.14	0.45	0.4	1	1	0	1200	1200	0
7/6/2024 16:28	16006	DORN_T2	50	63	13	1.92	2.08	0.16	0	0	0	0	0	0	0	0
7/6/2024 16:32	52002	LING_T2	29	53	24	0.44	0.54	0.1	0	0	0	0	0	0	0	0
7/6/2024 16:32	52004	LING_T2	9	9	0	0.56	1.18	0.62	0.33	0.4	0	0	0	0	0	0
7/6/2024 16:32	52006	LING_T2	6	4	-2	0.68	0.63	-0.05	0	0	0	0	0	0	0	0
7/6/2024 16:34	58102	NEKJ_T1	10	14	4	0.54	0.6	0.06	-0.59	-0.59	1	1	0	1200	1200	0
7/6/2024 16:36	57403	SPAN_T1	71	105	34	0.47	0.49	0.02	0	0	0	0	0	0	0	0
7/6/2024 16:36	57401	SPAN_T1	4	12	8	0.38	0.44	0.06	-1.91	-1.86	3	3	0	2400	2400	0
7/6/2024 16:38	29402	BELT_T1	124	25	-99	1.93	1.01	-0.92	0	0	0	0	0	0	0	0
7/6/2024 16:39	54503	ENOL_T2	4	2	-2	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
7/6/2024 16:39	29402	BELT_T1	124	25	-99	1.93	1.01	-0.92	0	0	0	0	0	0	0	0
7/6/2024 16:39	54506	ENOL_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
7/6/2024 16:39	54501	ENOL_T2	4	0	-4	0.23	0	-0.23	-1.25	-1.18	4	4	0	3000	3000	0
7/6/2024 16:41	60701	BREC_T1	65	16	-49	0.62	1.7	1.08	-0.36	-0.37	4	4	0	2400	2400	0
7/6/2024 16:48	64202	KINZ_T1	11	12	1	0.22	0.19	-0.03	0	0	0	0	0	0	0	0
7/6/2024 16:48	64204	KINZ_T1	1	2	1	1	0.4	-0.6	0	0	0	0	0	0	0	0
7/6/2024 16:48	64201	KINZ_T1	33	54	21	0.42	0.38	-0.04	0	0	0	0	0	0	0	0
7/6/2024 16:48	64203	KINZ_T1	2	2	0	1.85	1.5	-0.35	-1.06	-1.11	3	3	0	2100	2100	0
7/6/2024 16:49	64202	KINZ_T1	11	12	1	0.22	0.19	-0.03	0	0	0	0	0	0	0	0
7/6/2024 16:49	64201	KINZ_T1	33	54	21	0.42	0.38	-0.04	0	0	0	0	0	0	0	0
7/6/2024 16:49	64204	KINZ_T1	1	2	1	1	0.4	-0.6	0	0	0	0	0	0	0	0
7/6/2024 16:49	64203	KINZ_T1	2	2	0	1.85	1.5	-0.35	-1.06	-1.11	3	3	0	2100	2100	0
7/6/2024 16:49	59003	MIFF_T1	5	3	-2	0.78	0.6	-0.18	-0.49	-0.43	0	0	0	0	0	0
7/6/2024 16:53	43301	WATS_T2	14	15	1	1.14	1.37	0.23	0	0	0	0	0	0	0	0
7/6/2024 16:53	43304	WATS_T2	94	96	2	0.58	0.53	-0.05	-1.81	-1.86	2	2	0	1200	1200	0
7/6/2024 16:53	67605	WARW_T1	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
7/6/2024 16:54	66505	SMAN_T2	131	215	84	0.49	0.91	0.42	0	0	0	0	0	0	0	0
7/6/2024 16:54	43304	WATS_T2	94	96	2	0.58	0.53	-0.05	-0.9	-0.93	1	1	0	600	600	0
7/6/2024 16:54	43301	WATS_T2	14	15	1	1.14	1.37	0.23	0	0	0	0	0	0	0	0
7/6/2024 16:54	66504	SMAN_T2	16	43	27	0.78	0.7	-0.08	0.24	0.16	0	0	0	0	0	0
7/6/2024 16:54	66503	SMAN_T2	27	64	37	0.76	0.86	0.1	0	0	0	0	0	0	0	0
7/6/2024 16:56	61802	EELI_T2	8	8	0	1.81	1.86	0.05	0	0	0	0	0	0	0	0
7/6/2024 16:56	61801	EELI_T2	10	13	3	1.7	1.71	0.01	0.1	0.09	1	1	0	600	600	0
7/6/2024 16:58	61802	EELI_T2	8	8	0	1.81	1.86	0.05	0	0	0	0	0	0	0	0
7/6/2024 16:58	61801	EELI_T2	10	13	3	1.7	1.71	0.01	0.1	0.09	1	1	0	600	600	0
7/6/2024 16:59	40101	HUNT_T2	83	77	-6	0.5	0.55	0.05	-0.92	-0.89	0	0	0	0	0	0
7/6/2024 16:59	22601	KIMB_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/6/2024 16:59	22602	KIMB_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
7/6/2024 17:01	63403	HONY_T2	19	7	-12	0.43	0.85	0.42	-1.09	-1.09	1	1	0	600	600	0
7/6/2024 17:01	63402	HONY_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/6/2024 17:03	57303	MOAL_T2	1	1	0	9.8	9.5	-0.3	0	0	0	0	0	0	0	0
7/6/2024 17:03	57302	MOAL_T2	4	4	0	1.4	0	-1.4	0	0	0	0	0	0	0	0
7/6/2024 17:03	57301	MOAL_T2	1	5	4	0.7	1.8	1.1	1.08	1.05	0	0	0	0	0	0
7/6/2024 17:03	57306	MOAL_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 17:03	57304	MOAL_T2	74	80	6	0.99	1.34	0.35	0	0	0	0	0	0	0	0
7/6/2024 17:04	57303	MOAL_T2	1	1	0	9.8	9.5	-0.3	0	0	0	0	0	0	0	0
7/6/2024 17:04	57304	MOAL_T2	74	80	6	0.99	1.34	0.35	-0.46	-0.42	0	0	0	0	0	0
7/6/2024 17:04	57301	MOAL_T2	1	5	4	0.7	1.8	1.1	0	0	0	0	0	0	0	0
7/6/2024 17:04	47401	PENS_T1	4	9	5	1.25	1.03	-0.22	0.66	0.65	0	0	0	0	0	0
7/6/2024 17:04	57302	MOAL_T2	4	4	0	1.4	0	-1.4	0	0	0	0	0	0	0	0
7/6/2024 17:04	47402	PENS_T1	3	2	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/6/2024 17:04	57306	MOAL_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 17:05	47401	PENS_T1	4	9	5	1.25	1.03	-0.22	0.66	0.65	0	0	0	0	0	0
7/6/2024 17:05	66504	SMAN_T2	37	34	-3	0.7	0.83	0.13	0.24	0.16	0	0	0	0	0	0
7/6/2024 17:05	55001	NEWP_T1	21	37	16	0.61	0.51	-0.1	-0.6	-0.61	0	0	0	0	0	0
7/6/2024 17:05	55002	NEWP_T1	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
7/6/2024 17:05	67703	WERN_T2	145	226	81	0.73	0.7	-0.03	-0.01	-0.01	1	1	0	900	900	0
7/6/2024 17:05	66505	SMAN_T2	210	184	-26	0.84	0.81	-0.03	0	0	0	0	0	0	0	0
7/6/2024 17:05	47402	PENS_T1	3	2	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/6/2024 17:05	66503	SMAN_T2	45	64	19	0.93	0.8	-0.13	0	0	0	0	0	0	0	0
7/6/2024 17:06	65901	SAKR_T2	66	60	-6	0.58	0.61	0.03	0	0	0	0	0	0	0	0
7/6/2024 17:06	65903	SAKR_T2	0	2	2	0	1	1	0	0	0	0	0	0	0	0
7/6/2024 17:06	65902	SAKR_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 17:06	65904	SAKR_T2	0	0	0	0	0	0	-1.04	-1.07	3	3	0	1500	1500	0
7/6/2024 17:07	47401	PENS_T1	4	9	5	1.25	1.03	-0.22	0.65	0.35	0	0	0	0	0	0
7/6/2024 17:07	66504	SMAN_T2	37	34	-3	0.7	0.83	0.13	0.16	0.23	0	0	0	0	0	0
7/6/2024 17:07	66503	SMAN_T2	45	64	19	0.93	0.8	-0.13	0	0	0	0	0	0	0	0
7/6/2024 17:07	66505	SMAN_T2	210	184	-26	0.84	0.81	-0.03	0	0	0	0	0	0	0	0
7/6/2024 17:07	47402	PENS_T1	3	2	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/6/2024 17:08	65903	SAKR_T2	0	2	2	0	1	1	0	0	0	0	0	0	0	0
7/6/2024 17:08	65904	SAKR_T2	0	0	0	0	0	0	-1.04	-1.07	3	3	0	1500	1500	0
7/6/2024 17:08	65902	SAKR_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 17:08	65901	SAKR_T2	66	60	-6	0.58	0.61	0.03	0	0	0	0	0	0	0	0
7/6/2024 17:09	66504	SMAN_T2	37	34	-3	0.7	0.83	0.13	0	0	0	0	0	0	0	0
7/6/2024 17:09	66503	SMAN_T2	45	64	19	0.93	0.8	-0.13	0	0	0	0	0	0	0	0
7/6/2024 17:09	66505	SMAN_T2	210	184	-26	0.84	0.81	-0.03	0.43	0.29	4	4	0	2300	2300	0
7/6/2024 17:10	64203	KINZ_T1	2	7	5	1.5	1.2	-0.3	-1.1	-1.09	3	3	0	2100	2100	0
7/6/2024 17:10	64204	KINZ_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
7/6/2024 17:10	64201	KINZ_T1	48	46	-2	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
7/6/2024 17:10	43304	WATS_T2	92	80	-12	0.63	0.54	-0.09	-0.93	-0.91	1	1	0	600	600	0
7/6/2024 17:10	64202	KINZ_T1	10	9	-1	0.26	0	-0.26	0	0	0	0	0	0	0	0
7/6/2024 17:10	43301	WATS_T2	12	18	6	1.44	1.18	-0.26	0	0	0	0	0	0	0	0
7/6/2024 17:11	64201	KINZ_T1	48	46	-2	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
7/6/2024 17:11	64202	KINZ_T1	10	9	-1	0.26	0	-0.26	0	0	0	0	0	0	0	0
7/6/2024 17:11	64203	KINZ_T1	2	7	5	1.5	1.2	-0.3	-1.1	-1.09	3	3	0	2100	2100	0
7/6/2024 17:11	64204	KINZ_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
7/6/2024 17:12	62101	ELAN_T1	0	5	5	0	0.36	0.36	0	0	0	0	0	0	0	0
7/6/2024 17:12	62102	ELAN_T1	8	6	-2	0.39	0.2	-0.19	0.18	0.15	0	0	0	0	0	0
7/6/2024 17:12	62104	ELAN_T1	2	9	7	0.4	0.47	0.07	0	0	0	0	0	0	0	0
7/6/2024 17:12	62105	ELAN_T1	4	4	0	0.68	0.78	0.1	0	0	0	0	0	0	0	0
7/6/2024 17:18	57301	MOAL_T2	5	5	0	1.16	1.77	0.61	0	0	0	0	0	0	0	0
7/6/2024 17:18	57304	MOAL_T2	68	77	9	1.16	1.28	0.12	-0.42	-0.39	0	0	0	0	0	0
7/6/2024 17:18	57306	MOAL_T2	0	3	3	0	1.45	1.45	0	0	0	0	0	0	0	0
7/6/2024 17:18	57302	MOAL_T2	4	4	0	1	0	-1	0	0	0	0	0	0	0	0
7/6/2024 17:18	57303	MOAL_T2	1	1	0	9.7	9.5	-0.2	0	0	0	0	0	0	0	0
7/6/2024 17:19	65903	SAKR_T2	2	3	1	0.6	2.9	2.3	0	0	0	0	0	0	0	0
7/6/2024 17:19	65902	SAKR_T2	1	6	5	0.1	1.07	0.97	-0.95	-0.94	2	2	0	1200	1200	0
7/6/2024 17:19	65904	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 17:19	65901	SAKR_T2	45	52	7	0.63	0.66	0.03	0	0	0	0	0	0	0	0
7/6/2024 17:20	57302	MOAL_T2	4	4	0	1	0	-1	0	0	0	0	0	0	0	0
7/6/2024 17:20	57304	MOAL_T2	68	77	9	1.16	1.28	0.12	-0.42	-0.39	0	0	0	0	0	0
7/6/2024 17:20	57303	MOAL_T2	1	1	0	9.7	9.5	-0.2	0	0	0	0	0	0	0	0
7/6/2024 17:20	57306	MOAL_T2	0	3	3	0	1.45	1.45	0	0	0	0	0	0	0	0
7/6/2024 17:20	57301	MOAL_T2	5	5	0	1.16	1.77	0.61	0	0	0	0	0	0	0	0
7/6/2024 17:23	59101	WALK_T2	1	5	4	0.1	0.3	0.2	-0.23	-0.28	2	2	0	1200	1200	0
7/6/2024 17:25	61703	ELIZ_T1	12	28	16	0.31	0.45	0.14	0	0	0	0	0	0	0	0
7/6/2024 17:25	61701	ELIZ_T1	4	2	-2	0.43	0.15	-0.28	1.1	1.18	0	0	0	0	0	0
7/6/2024 17:30	11406	FARM_T1	17	31	14	0.86	0.77	-0.09	0	0	0	0	0	0	0	0
7/6/2024 17:30	11405	FARM_T1	134	144	10	1.44	1.36	-0.08	-0.13	-0.07	1	1	0	1200	1200	0
7/6/2024 17:30	11404	FARM_T1	3	0	-3	0.53	0	-0.53	0	0	0	0	0	0	0	0
7/6/2024 17:30	11407	FARM_T1	0	3	3	0	1.4	1.4	0	0	0	0	0	0	0	0
7/6/2024 17:30	11402	FARM_T1	11	16	5	0.8	0.88	0.08	0	0	0	0	0	0	0	0
7/6/2024 17:34	64203	KINZ_T1	7	7	0	1.1	0.95	-0.15	-1.09	-1.05	3	3	0	2100	2100	0
7/6/2024 17:34	64202	KINZ_T1	0	5	5	0	0.5	0.5	0	0	0	0	0	0	0	0
7/6/2024 17:34	64204	KINZ_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/6/2024 17:34	64201	KINZ_T1	13	7	-6	0.3	0.33	0.03	0	0	0	0	0	0	0	0
7/6/2024 17:35	64203	KINZ_T1	7	7	0	1.1	0.95	-0.15	-1.09	-1.05	3	3	0	2100	2100	0
7/6/2024 17:35	64201	KINZ_T1	13	7	-6	0.3	0.33	0.03	0	0	0	0	0	0	0	0
7/6/2024 17:35	64202	KINZ_T1	0	5	5	0	0.5	0.5	0	0	0	0	0	0	0	0
7/6/2024 17:35	64204	KINZ_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/6/2024 17:38	67802	WLAN_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
7/6/2024 17:38	67801	WLAN_T1	274	397	123	0.64	0.68	0.04	-1.66	-1.55	0	0	0	0	0	0
7/6/2024 17:38	67803	WLAN_T1	21	35	14	0.66	0.56	-0.1	0	0	0	0	0	0	0	0
7/6/2024 17:38	55401	SHER_T1	1	2	1	0.1	1.4	1.3	0	0	0	0	0	0	0	0
7/6/2024 17:38	67804	WLAN_T1	21	22	1	1.97	2.58	0.61	0	0	0	0	0	0	0	0
7/6/2024 17:38	55405	SHER_T1	20	22	2	0.45	0.68	0.23	0.77	0.75	0	0	0	0	0	0
7/6/2024 17:40	60801	BUCK_T1	2	1	-1	0.25	0.2	-0.05	-0.28	-0.29	1	1	0	600	600	0
7/6/2024 17:41	60801	BUCK_T1	2	1	-1	0.25	0.2	-0.05	-0.28	-0.29	1	1	0	600	600	0
7/6/2024 17:42	51802	EBEN_T2	20	18	-2	1.42	1.32	-0.1	0	0	0	0	0	0	0	0
7/6/2024 17:42	51804	EBEN_T2	14	7	-7	0.62	0.15	-0.47	-0.41	-0.42	1	1	0	900	900	0
7/6/2024 17:45	40101	HUNT_T2	135	141	6	0.55	0.53	-0.02	-0.88	-0.9	0	0	0	0	0	0
7/6/2024 17:46	51804	EBEN_T2	6	6	0	0.18	0	-0.18	-0.41	-0.42	1	1	0	900	900	0
7/6/2024 17:46	63804	HEMP_T1	3	2	-1	3.03	3.8	0.77	0.51	0.47	0	0	0	0	0	0
7/6/2024 17:46	51802	EBEN_T2	18	19	1	1.62	1.21	-0.41	0	0	0	0	0	0	0	0
7/6/2024 17:49	61202	REIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/6/2024 17:50	48303	ORWI_T2	0	0	0	0	0	0	1.03	1.05	0	0	0	0	0	0
7/6/2024 17:50	48302	ORWI_T2	101	100	-1	0.82	0.58	-0.24	0	0	0	0	0	0	0	0
7/6/2024 17:51	61202	REIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/6/2024 17:52	43301	WATS_T2	21	18	-3	0.81	0.82	0.01	0	0	0	0	0	0	0	0
7/6/2024 17:52	13903	SEID_T1	73	68	-5	1	0.86	-0.14	0	0	0	0	0	0	0	0
7/6/2024 17:52	13904	SEID_T1	87	101	14	1.21	1.25	0.04	-0.59	-0.57	0	0	0	0	0	0
7/6/2024 17:52	43304	WATS_T2	87	100	13	0.64	0.7	0.06	-0.96	-0.91	1	1	0	600	600	0
7/6/2024 17:52	13905	SEID_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/6/2024 17:52	13902	SEID_T1	7	7	0	0.77	0.73	-0.04	0	0	0	0	0	0	0	0
7/6/2024 17:53	67801	WLAN_T1	355	362	7	0.72	0.51	-0.21	-1.55	-1.65	0	0	0	0	0	0
7/6/2024 17:53	67803	WLAN_T1	32	34	2	0.71	0.5	-0.21	-0.43	-0.45	0	0	0	0	0	0
7/6/2024 17:53	67802	WLAN_T1	2	3	1	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
7/6/2024 17:53	67804	WLAN_T1	21	22	1	2.17	2.6	0.43	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/6/2024 17:54	67804	WLAN_T1	21	22	1	2.17	2.6	0.43	0	0	0	0	0	0	0	0
7/6/2024 17:54	67803	WLAN_T1	32	34	2	0.71	0.5	-0.21	-0.43	-0.45	0	0	0	0	0	0
7/6/2024 17:54	67802	WLAN_T1	2	3	1	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
7/6/2024 17:54	67801	WLAN_T1	355	362	7	0.72	0.51	-0.21	0	0	0	0	0	0	0	0
7/6/2024 17:54	59101	WALK_T2	4	2	-2	0.23	0	-0.23	-0.19	-0.2	2	2	0	1200	1200	0
7/6/2024 17:56	64202	KINZ_T1	3	3	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
7/6/2024 17:56	64201	KINZ_T1	6	5	-1	0.42	0.7	0.28	0	0	0	0	0	0	0	0
7/6/2024 17:56	64203	KINZ_T1	7	2	-5	1.1	1.2	0.1	-1.09	-1.03	3	3	0	2100	2100	0
7/6/2024 17:56	64204	KINZ_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/6/2024 17:57	64204	KINZ_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/6/2024 17:57	64202	KINZ_T1	3	3	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
7/6/2024 17:57	64201	KINZ_T1	6	5	-1	0.42	0.7	0.28	0	0	0	0	0	0	0	0
7/6/2024 17:57	64203	KINZ_T1	7	2	-5	1.1	1.2	0.1	-1.09	-1.03	3	3	0	2100	2100	0
7/6/2024 17:58	11001	EGRE_T1	2	2	0	0.45	0.4	-0.05	-0.18	-0.24	1	1	0	1200	1200	0
7/6/2024 18:04	61202	REIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/6/2024 18:05	12601	MACA_T1	14	18	4	1.1	0.7	-0.4	1.84	1.81	0	0	0	0	0	0
7/6/2024 18:05	12603	MACA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/6/2024 18:05	12606	MACA_T1	101	97	-4	2.53	1.91	-0.62	0	0	0	0	0	0	0	0
7/6/2024 18:05	12602	MACA_T1	26	25	-1	1.53	1.04	-0.49	0	0	0	0	0	0	0	0
7/6/2024 18:06	66503	SMAN_T2	58	63	5	0.93	1.01	0.08	1.41	1.39	0	0	0	0	0	0
7/6/2024 18:06	66505	SMAN_T2	204	129	-75	0.91	0.67	-0.24	0	0	0	0	0	0	0	0
7/6/2024 18:06	66504	SMAN_T2	25	24	-1	0.6	0.58	-0.02	0	0	0	0	0	0	0	0
7/6/2024 18:07	61202	REIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/6/2024 18:10	22002	BOHE_T1	0	0	0	0	0	0	1.07	1.03	0	0	0	0	0	0
7/6/2024 18:10	22001	BOHE_T1	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/6/2024 18:11	62104	ELAN_T1	4	0	-4	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/6/2024 18:11	62102	ELAN_T1	1	6	5	0.6	0.2	-0.4	0.15	0.2	0	0	0	0	0	0
7/6/2024 18:11	62101	ELAN_T1	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
7/6/2024 18:11	62105	ELAN_T1	4	4	0	1.03	0.53	-0.5	0	0	0	0	0	0	0	0
7/6/2024 18:15	62101	ELAN_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/6/2024 18:15	62105	ELAN_T1	4	3	-1	0.83	0.6	-0.23	0	0	0	0	0	0	0	0
7/6/2024 18:15	62102	ELAN_T1	3	4	1	0.2	0	-0.2	0.15	0.2	0	0	0	0	0	0
7/6/2024 18:20	64204	KINZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/6/2024 18:20	64201	KINZ_T1	2	2	0	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
7/6/2024 18:20	64202	KINZ_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/6/2024 18:20	64203	KINZ_T1	1	2	1	1.2	0	-1.2	-1.03	-1.11	3	3	0	2100	2100	0
7/6/2024 18:21	64202	KINZ_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/6/2024 18:21	64201	KINZ_T1	2	2	0	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
7/6/2024 18:21	64203	KINZ_T1	1	2	1	1.2	0	-1.2	-1.03	-1.11	3	3	0	2100	2100	0
7/6/2024 18:21	64204	KINZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/6/2024 18:23	43301	WATS_T2	15	19	4	0.94	0.75	-0.19	0	0	0	0	0	0	0	0
7/6/2024 18:23	47401	PENS_T1	4	16	12	1.05	1.06	0.01	0.75	0.82	0	0	0	0	0	0
7/6/2024 18:23	47402	PENS_T1	6	1	-5	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/6/2024 18:23	43304	WATS_T2	81	85	4	0.74	0.66	-0.08	-0.91	-0.91	1	1	0	600	600	0
7/6/2024 18:25	61101	BERK_T5	37	44	7	0.93	0.94	0.01	-0.8	-0.79	0	0	0	0	0	0
7/6/2024 18:35	66002	RHEE_T2	0	0	0	0	0	0	-1.68	-1.65	1	1	0	600	600	0
7/6/2024 18:37	57106	SPHI_T2	3	2	-1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
7/6/2024 18:37	57103	SPHI_T2	0	0	0	0	0	0	-0.58	-0.63	1	1	0	600	600	0
7/6/2024 18:43	64202	KINZ_T1	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
7/6/2024 18:43	64203	KINZ_T1	1	1	0	0.6	0	-0.6	-1.08	-1.13	3	3	0	2100	2100	0
7/6/2024 18:43	64204	KINZ_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/6/2024 18:43	64201	KINZ_T1	2	2	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/6/2024 18:44	64201	KINZ_T1	2	2	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/6/2024 18:44	64204	KINZ_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/6/2024 18:44	64203	KINZ_T1	1	1	0	0.6	0	-0.6	-1.08	-1.13	3	3	0	2100	2100	0
7/6/2024 18:44	64202	KINZ_T1	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
7/6/2024 18:50	66203	SISP_T2	1	1	0	3.8	0.5	-3.3	0	0	0	0	0	0	0	0
7/6/2024 18:50	66201	SISP_T2	0	0	0	0	0	0	-1.12	-1.13	0	0	0	0	0	0
7/6/2024 18:52	66203	SISP_T2	1	1	0	3.8	0.5	-3.3	0	0	0	0	0	0	0	0
7/6/2024 18:52	66201	SISP_T2	0	0	0	0	0	0	-1.13	-1.17	0	0	0	0	0	0
7/6/2024 19:02	22905	HARW_T1	47	52	5	0.87	0.66	-0.21	0	0	0	0	0	0	0	0
7/6/2024 19:02	22903	HARW_T1	22	23	0	1.62	0.74	-0.88	0	0	0	0	0	0	0	0
7/6/2024 19:02	22901	HARW_T1	46	44	-2	0.91	0.73	-0.18	-0.31	-0.32	1	1	0	1200	1200	0
7/6/2024 19:03	47104	MARL_T1	33	33	0	1.04	1.2	0.16	0	0	0	0	0	0	0	0
7/6/2024 19:03	22903	HARW_T1	22	22	0	1.62	0.74	-0.88	0	0	0	0	0	0	0	0
7/6/2024 19:03	22905	HARW_T1	47	52	5	0.87	0.66	-0.21	0	0	0	0	0	0	0	0
7/6/2024 19:03	22901	HARW_T1	46	44	-2	0.91	0.73	-0.18	-0.31	-0.32	1	1	0	1200	1200	0
7/6/2024 19:03	47101	MARL_T1	308	280	-28	1.28	1.2	-0.08	-1.03	-1	2	2	0	1200	1200	0
7/6/2024 19:05	47101	MARL_T1	308	280	-28	1.28	1.2	-0.08	-0.51	-0.5	1	1	0	600	600	0
7/6/2024 19:05	47104	MARL_T1	33	33	0	1.04	1.2	0.16	0	0	0	0	0	0	0	0
7/6/2024 19:06	64201	KINZ_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/6/2024 19:06	64204	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/6/2024 19:06	64203	KINZ_T1	0	2	2	0	0	0	-1.13	-1.23	3	3	0	2100	2100	0
7/6/2024 19:06	64202	KINZ_T1	3	21	18	0.3	0.78	0.48	0	0	0	0	0	0	0	0
7/6/2024 19:07	64201	KINZ_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/6/2024 19:07	64202	KINZ_T1	3	21	18	0.3	0.78	0.48	0	0	0	0	0	0	0	0
7/6/2024 19:07	64204	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/6/2024 19:07	64203	KINZ_T1	0	2	2	0	0	0	-1.23	-1.17	3	3	0	2100	2100	0
7/6/2024 19:09	57402	SPAN_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/6/2024 19:09	57404	SPAN_T2	12	6	-6	1.04	1.57	0.53	-2.46	-2.47	2	2	0	2400	2400	0
7/6/2024 19:11	62104	ELAN_T1	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
7/6/2024 19:11	62105	ELAN_T1	2	4	2	0.55	0.65	0.1	0	0	0	0	0	0	0	0
7/6/2024 19:11	62102	ELAN_T1	1	1	0	0.1	0	-0.1	0.17	0.11	0	0	0	0	0	0
7/6/2024 19:11	62101	ELAN_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/6/2024 19:17	26402	INOR_T1	3	1	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/6/2024 19:17	26401	INOR_T1	64	19	-45	0.58	0.89	0.31	1.41	1.38	0	0	0	0	0	0
7/6/2024 19:18	62104	ELAN_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
7/6/2024 19:18	62102	ELAN_T1	1	0	-1	0.1	0	-0.1	0.17	0.11	0	0	0	0	0	0
7/6/2024 19:18	62105	ELAN_T1	2	4	2	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
7/6/2024 19:19	52503	PROG_T2	0	0	0	0	0	0	0.35	0.44	1	1	0	900	900	0
7/6/2024 19:19	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 19:20	52503	PROG_T2	0	0	0	0	0	0	0.35	0.44	1	1	0	900	900	0
7/6/2024 19:20	52502	PROG_T2	0	0	0	0	0	0	1.41	1.24	2	2	0	1800	1800	0
7/6/2024 19:20	65604	QVIL_T2	8	4	-4	0.46	0.2	-0.26	0	0	0	0	0	0	0	0
7/6/2024 19:20	65601	QVIL_T2	18	9	-9	0.33	0.7	0.37	0	0	0	0	0	0	0	0
7/6/2024 19:20	65602	QVIL_T2	15	8	-7	0.91	0.63	-0.28	0	0	0	0	0	0	0	0
7/6/2024 19:20	65603	QVIL_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
7/6/2024 19:21	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 19:24	59101	WALK_T2	0	0	0	0	0	0	-0.39	-0.39	2	2	0	1200	1200	0
7/6/2024 19:24	66902	SHIL_T2	8	7	-1	0.31	0.39	0.08	0	0	0	0	0	0	0	0
7/6/2024 19:24	66901	SHIL_T2	0	0	0	0	0	0	-1.3	-1.36	0	0	0	0	0	0
7/6/2024 19:25	46001	BERW_T1	20	8	-12	0.47	0.45	-0.02	0.23	0.18	0	0	0	0	0	0
7/6/2024 19:26	64201	KINZ_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/6/2024 19:26	64202	KINZ_T1	21	6	-15	0.65	0.9	0.25	0	0	0	0	0	0	0	0
7/6/2024 19:26	64204	KINZ_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
7/6/2024 19:26	64203	KINZ_T1	2	0	-2	0.1	0	-0.1	-1.17	-1.19	3	3	0	2100	2100	0
7/6/2024 19:27	64204	KINZ_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
7/6/2024 19:27	64203	KINZ_T1	2	0	-2	0.1	0	-0.1	-1.17	-1.19	3	3	0	2100	2100	0
7/6/2024 19:27	57004	WHHI_T2	0	0	0	0	0	0	-1.72	-1.73	0	0	0	0	0	0
7/6/2024 19:27	57002	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/6/2024 19:27	57003	WHHI_T2	14	15	1	1.6	0.97	-0.63	0	0	0	0	0	0	0	0
7/6/2024 19:27	64202	KINZ_T1	21	6	-15	0.65	0.9	0.25	0	0	0	0	0	0	0	0
7/6/2024 19:27	57001	WHHI_T2	6	6	0	2.3	0.88	-1.42	0	0	0	0	0	0	0	0
7/6/2024 19:27	64201	KINZ_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/6/2024 19:38	57702	PAXT_T1	10	10	0	1.14	0.9	-0.24	-0.31	-0.27	0	0	0	0	0	0
7/6/2024 19:42	63304	GREE_T1	0	0	0	0	0	0	-2.95	-2.98	1	1	0	1200	1200	0
7/6/2024 19:46	64203	KINZ_T1	0	4	4	0	0	0	-1.19	-1.19	3	3	0	2100	2100	0
7/6/2024 19:46	64204	KINZ_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
7/6/2024 19:46	64202	KINZ_T1	6	11	5	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
7/6/2024 19:47	64204	KINZ_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
7/6/2024 19:47	63304	GREE_T1	0	0	0	0	0	0	-2.95	-2.98	1	1	0	1200	1200	0
7/6/2024 19:47	64202	KINZ_T1	6	11	5	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
7/6/2024 19:47	64203	KINZ_T1	0	4	4	0	0	0	-1.19	-1.19	3	3	0	2100	2100	0
7/6/2024 19:50	44903	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 19:50	44905	SCOT_T1	36	31	-5	1.25	1.13	-0.12	0	0	0	0	0	0	0	0
7/6/2024 20:02	22701	MINO_T1	0	0	0	0	0	0	-0.22	-0.25	1	1	0	600	600	0
7/6/2024 20:25	49804	UNIV_T1	3	1	-2	0.33	0	-0.33	0.39	0.31	0	0	0	0	0	0
7/6/2024 20:34	40902	JESH_T1	0	0	0	0	0	0	-3.77	-3.92	6	6	0	3600	3600	0
7/6/2024 20:34	40901	JESH_T1	1	1	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
7/6/2024 20:58	43402	BENT_T1	1	1	0	0.2	0	-0.2	-0.7	-0.72	1	1	0	900	900	0
7/6/2024 20:58	43401	BENT_T1	6	5	-1	0.38	0.1	-0.28	0	0	0	0	0	0	0	0
7/6/2024 21:03	26704	HEMI_T2	0	0	0	0	0	0	-0.47	-0.48	1	1	0	1200	1200	0
7/6/2024 21:15	61102	BERK_T5	0	0	0	0	0	0	-0.98	0.18	2	1	-1	1500	300	-1200
7/6/2024 21:20	25801	SUTR_T2	0	1	1	0	0	0	-0.11	0.31	0	0	0	0	0	0
7/6/2024 21:23	55101	WERT_T1	0	0	0	0	0	0	-7.05	-6.9	12	12	0	9900	9900	0
7/6/2024 21:23	55105	WERT_T1	4	1	-3	1.98	0	-1.98	0	0	0	0	0	0	0	0
7/6/2024 21:25	55105	WERT_T1	4	1	-3	1.98	0	-1.98	0	0	0	0	0	0	0	0
7/6/2024 21:25	55101	WERT_T1	0	0	0	0	0	0	-4.7	-4.6	8	8	0	6600	6600	0
7/6/2024 21:29	55101	WERT_T1	0	0	0	0	0	0	-2.35	-2.3	4	4	0	3300	3300	0
7/6/2024 21:29	55105	WERT_T1	4	1	-3	1.98	0	-1.98	0	0	0	0	0	0	0	0
7/6/2024 21:30	55102	WERT_T2	0	0	0	0	0	0	-1.62	-0.48	2	2	0	1200	1200	0
7/6/2024 21:37	54503	ENOL_T2	0	1	1	0	0.8	0.8	-2.45	-2.48	1	1	0	600	600	0
7/6/2024 21:52	45802	HEGI_T2	22	39	17	0.45	0.82	0.37	0.22	0.21	0	0	0	0	0	0
7/6/2024 21:53	58803	COCO_T1	1	1	0	0.3	0.6	0.3	-0.89	-0.88	1	1	0	600	600	0
7/6/2024 21:53	54503	ENOL_T2	1	1	0	0.8	0	-0.8	-2.48	-2.43	1	1	0	600	600	0
7/6/2024 21:59	44801	EDAN_T2	3	4	1	0.67	0.7	0.03	0.93	0.91	0	0	0	0	0	0
7/6/2024 22:00	51804	EBEN_T2	0	0	0	0	0	0	-0.78	-0.81	1	1	0	900	900	0
7/6/2024 22:00	51802	EBEN_T2	1	1	0	2.3	0	-2.3	0	0	0	0	0	0	0	0
7/6/2024 22:00	60803	BUCK_T1	6	2	-4	0.22	0.15	-0.07	-0.86	-0.87	1	1	0	600	600	0
7/6/2024 22:00	44801	EDAN_T2	4	2	-2	0.68	0.5	-0.18	0.93	0.91	0	0	0	0	0	0
7/6/2024 22:01	60803	BUCK_T1	6	2	-4	0.22	0.15	-0.07	-0.86	-0.87	1	1	0	600	600	0
7/6/2024 22:09	44801	EDAN_T2	4	2	-2	0.68	0.5	-0.18	0.91	0.93	0	0	0	0	0	0
7/6/2024 22:14	46803	HEPB_T2	3	5	2	0.8	0.64	-0.16	0.14	0.14	0	0	0	0	0	0
7/6/2024 22:14	46803	HEPB_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/6/2024 22:15	61701	ELIZ_T1	1	1	0	3.2	3.9	0.7	0.82	0.69	0	0	0	0	0	0
7/6/2024 22:17	46803	HEPB_T2	1	2	1	0.2	0.15	-0.05	0.7	0.69	0	0	0	0	0	0
7/6/2024 22:17	46801	HEPB_T2	4	13	9	0.75	0.34	-0.41	0	0	0	0	0	0	0	0
7/6/2024 22:18	46803	HEPB_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
7/6/2024 22:18	46801	HEPB_T2	4	13	9	0.75	0.34	-0.41	0.16	0.14	0	0	0	0	0	0
7/6/2024 22:26	12305	LANA_T2	3	1	-2	0.53	0	-0.53	0	0	0	0	0	0	0	0
7/6/2024 22:26	12304	LANA_T2	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/6/2024 22:26	12301	LANA_T2	0	0	0	0	0	0	-0.9	-0.88	1	1	0	1200	1200	0
7/6/2024 22:27	61101	BERK_T5	0	0	0	0	0	0	-1.17	-1.22	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/6/2024 22:28	11801	FRAN_T2	2	0	-2	0.2	0	-0.2	0.27	0.25	0	0	0	0	0	0
7/6/2024 22:28	13903	SEID_T1	12	8	-4	0.35	0.38	0.03	0	0	0	0	0	0	0	0
7/6/2024 22:28	13902	SEID_T1	4	4	0	0.18	0	-0.18	0	0	0	0	0	0	0	0
7/6/2024 22:28	13904	SEID_T1	18	30	12	0.33	0.26	-0.07	-0.38	-0.39	0	0	0	0	0	0
7/6/2024 22:28	11803	FRAN_T2	3	3	0	0.93	0	-0.93	0	0	0	0	0	0	0	0
7/6/2024 22:29	29402	BELT_T1	108	148	40	1	1.29	0.29	0	0	0	0	0	0	0	0
7/6/2024 22:29	64302	LINC_T2	1	3	2	1.2	0.8	-0.4	1.45	1.49	0	0	0	0	0	0
7/6/2024 22:29	64304	LINC_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/6/2024 22:29	29401	BELT_T1	7	15	8	0.39	0.44	0.05	0	0	1	1	0	900	900	0
7/6/2024 22:31	12803	MICK_T1	0	0	0	0	0	0	0.19	0.2	1	1	0	1200	1200	0
7/6/2024 22:32	63403	HONY_T2	0	0	0	0	0	0	-0.42	-0.46	0	0	0	0	0	0
7/6/2024 22:32	61701	ELIZ_T1	1	1	0	3.5	4.2	0.7	0.69	0.76	0	0	0	0	0	0
7/6/2024 22:32	61702	ELIZ_T2	0	0	0	0	0	0	-1.21	-1.2	2	2	0	1500	1500	0
7/6/2024 22:32	66701	STRA_T1	0	5	5	0	0.64	0.64	0.74	0.65	1	1	0	600	600	0
7/6/2024 22:32	63402	HONY_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/6/2024 22:33	16302	ALPA_T2	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
7/6/2024 22:33	66902	SHIL_T2	1	10	9	0.1	0.19	0.09	0	0	0	0	0	0	0	0
7/6/2024 22:33	62102	ELAN_T1	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
7/6/2024 22:33	58801	COCO_T2	0	0	0	0	0	0	-1.46	-1.47	2	2	0	2400	2400	0
7/6/2024 22:33	66901	SHIL_T2	2	63	61	0.1	0.21	0.11	-0.37	-0.33	0	0	0	0	0	0
7/6/2024 22:33	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/6/2024 22:34	65001	NEFF_T2	0	0	0	0	0	0	-0.51	-0.54	1	1	0	1200	1200	0
7/6/2024 22:34	51804	EBEN_T2	0	0	0	0	0	0	-0.82	-0.84	1	1	0	900	900	0
7/6/2024 22:34	61102	BERK_T5	0	0	0	0	0	0	0.09	0.06	1	1	0	300	300	0
7/6/2024 22:34	12701	MACU_T1	0	0	0	0	0	0	-0.7	-0.75	1	1	0	1200	1200	0
7/6/2024 22:35	64204	KINZ_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/6/2024 22:35	52004	LING_T2	0	1	1	0	0	0	0.23	0.2	0	0	0	0	0	0
7/6/2024 22:35	25402	LAHA_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
7/6/2024 22:35	64202	KINZ_T1	2	2	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/6/2024 22:35	24902	WHHA_T1	2	2	0	0.6	0.25	-0.35	0.4	0.38	0	0	0	0	0	0
7/6/2024 22:35	64201	KINZ_T1	0	0	0	0	0	0	-0.6	-0.77	4	4	0	2100	2100	0
7/6/2024 22:36	65901	SAKR_T2	1	1	0	7.1	7.3	0.2	0	0	0	0	0	0	0	0
7/6/2024 22:36	20403	ASHF_T2	0	0	0	0	0	0	-0.22	-0.27	0	0	0	0	0	0
7/6/2024 22:36	65904	SAKR_T2	0	0	0	0	0	0	-1.12	-1.13	3	3	0	1500	1500	0
7/6/2024 22:36	65601	QVIL_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/6/2024 22:36	61102	BERK_T5	0	0	0	0	0	0	0.13	0.04	2	2	0	600	600	0
7/6/2024 22:36	29402	BELT_T1	116	170	54	1.16	1.24	0.08	0	0	0	0	0	0	0	0
7/6/2024 22:36	16001	DORN_T1	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
7/6/2024 22:36	65604	QVIL_T2	0	1	1	0	0	0	0.97	0.91	0	0	0	0	0	0
7/6/2024 22:36	67603	WARW_T1	0	0	0	0	0	0	-0.79	0.4	0	0	0	0	0	0
7/6/2024 22:36	52502	PROG_T2	0	0	0	0	0	0	0.25	0.22	1	1	0	900	900	0
7/6/2024 22:36	20402	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/6/2024 22:36	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:36	29401	BELT_T1	7	23	16	0.41	0.43	0.02	0	0	0	0	0	0	0	0
7/6/2024 22:37	11104	EGYP_T1	0	0	0	0	0	0	-0.1	-0.14	0	0	0	0	0	0
7/6/2024 22:37	29402	BELT_T1	116	170	54	1.16	1.24	0.08	0	0	0	0	0	0	0	0
7/6/2024 22:37	29401	BELT_T1	7	23	16	0.41	0.43	0.02	0	0	1	1	0	900	900	0
7/6/2024 22:37	13501	MCMI_T1	1	0	-1	0.1	0	-0.1	0.54	0.51	0	0	0	0	0	0
7/6/2024 22:37	61102	BERK_T5	0	0	0	0	0	0	0.13	0.04	2	2	0	600	600	0
7/6/2024 22:37	16302	ALPA_T2	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
7/6/2024 22:37	11102	EGYP_T1	1	4	3	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/6/2024 22:37	67703	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	2	2	0	1800	1800	0
7/6/2024 22:37	20601	GRWO_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
7/6/2024 22:38	67804	WLAN_T1	10	8	-2	0.61	0.31	-0.3	-1.55	-1.55	0	0	0	0	0	0
7/6/2024 22:38	22002	BOHE_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
7/6/2024 22:38	47001	HUGH_T2	3	3	0	6.8	6.97	0.17	-1.3	-1.4	1	1	0	900	900	0
7/6/2024 22:38	12801	MICK_T1	0	0	0	0	0	0	-0.72	-0.72	1	1	0	600	600	0
7/6/2024 22:38	14801	TREI_T2	197	182	-15	1.88	1.18	-0.7	0.66	1.16	0	0	0	0	0	0
7/6/2024 22:38	66201	SISP_T2	0	0	0	0	0	0	-0.5	-0.54	0	0	0	0	0	0
7/6/2024 22:38	12701	MACU_T1	0	0	0	0	0	0	-0.75	-0.77	1	1	0	1200	1200	0
7/6/2024 22:38	67801	WLAN_T1	14	2	-12	0.19	0	-0.19	0	0	0	0	0	0	0	0
7/6/2024 22:39	44703	MUNC_T2	1	1	0	0.5	0	-0.5	0.99	0.95	0	0	0	0	0	0
7/6/2024 22:39	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/6/2024 22:39	60801	BUCK_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
7/6/2024 22:39	64304	LINC_T2	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/6/2024 22:39	60803	BUCK_T1	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
7/6/2024 22:39	56504	ROCK_T2	2	3	1	0.45	0.55	0.1	0	0	0	0	0	0	0	0
7/6/2024 22:39	20403	ASHF_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
7/6/2024 22:39	63401	HONY_T1	0	0	0	0	0	0	-0.01	0.04	1	1	0	600	600	0
7/6/2024 22:39	20402	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/6/2024 22:39	47104	MARL_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/6/2024 22:39	66504	SMAN_T2	2	2	0	1.9	0.2	-1.7	-0.92	-0.84	0	0	0	0	0	0
7/6/2024 22:39	56501	ROCK_T2	208	0	-208	0.38	0	-0.38	-1.21	-1.24	0	0	0	0	0	0
7/6/2024 22:39	65503	MOJO_T2	0	0	0	0	0	0	-0.47	-0.5	1	1	0	900	900	0
7/6/2024 22:39	16302	ALPA_T2	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
7/6/2024 22:39	47101	MARL_T1	26	27	1	1.53	0.98	-0.55	-0.81	-0.83	1	1	0	600	600	0
7/6/2024 22:39	41602	CLEV_T1	1	0	-1	0.7	0	-0.7	0	0	1	1	0	600	600	0
7/6/2024 22:39	66505	SMAN_T2	10	9	-1	0.56	0.33	-0.23	0	0	0	0	0	0	0	0
7/6/2024 22:39	67801	WLAN_T1	14	2	-12	0.19	0	-0.19	0	0	0	0	0	0	0	0
7/6/2024 22:39	60502	NMAN_T2	0	1	1	0	0	0	-0.43	-0.52	0	0	0	0	0	0
7/6/2024 22:39	52503	PROG_T2	0	0	0	0	0	0	-0.07	-0.13	1	1	0	900	900	0
7/6/2024 22:39	59101	WALK_T2	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
7/6/2024 22:39	59102	WALK_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/6/2024 22:39	67804	WLAN_T1	10	8	-2	0.61	0.31	-0.3	-1.55	-1.55	0	0	0	0	0	0
7/6/2024 22:39	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:39	60501	NMAN_T2	3	3	0	4	4.43	0.43	0	0	0	0	0	0	0	0
7/6/2024 22:39	64302	LINC_T2	3	1	-2	0.83	0	-0.83	1.49	1.41	0	0	0	0	0	0
7/6/2024 22:40	57301	MOAL_T2	1	1	0	1.9	0	-1.9	0	0	0	0	0	0	0	0
7/6/2024 22:40	47401	PENS_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
7/6/2024 22:40	56501	ROCK_T2	208	0	-208	0.38	0	-0.38	-2.41	-2.48	0	0	0	0	0	0
7/6/2024 22:40	45303	WBER_T2	5	0	-5	0.26	0	-0.26	0	0	0	0	0	0	0	0
7/6/2024 22:40	52002	LING_T2	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0
7/6/2024 22:40	52004	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:40	56504	ROCK_T2	2	3	1	0.45	0.55	0.1	0	0	0	0	0	0	0	0
7/6/2024 22:40	47802	MOCA_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
7/6/2024 22:40	66701	STRA_T1	0	5	5	0	0.64	0.64	0	0	0	0	0	0	0	0
7/6/2024 22:40	11504	FREE_T1	0	0	0	0	0	0	-1.79	-1.77	2	2	0	2100	2100	0
7/6/2024 22:40	60701	BREC_T1	0	0	0	0	0	0	0.12	0.07	1	1	0	600	600	0
7/6/2024 22:40	59101	WALK_T2	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
7/6/2024 22:40	61703	ELIZ_T1	0	0	0	0	0	0	-2.38	-2.4	2	2	0	2100	2100	0
7/6/2024 22:40	61701	ELIZ_T1	1	1	0	3.5	4.2	0.7	0	0	0	0	0	0	0	0
7/6/2024 22:40	57304	MOAL_T2	0	0	0	0	0	0	-0.66	-0.96	0	0	0	0	0	0
7/6/2024 22:40	45302	WBER_T2	0	0	0	0	0	0	1.17	1.11	0	0	0	0	0	0
7/6/2024 22:40	59102	WALK_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/6/2024 22:40	40302	TAMA_T3	0	0	0	0	0	0	-0.97	-0.97	0	0	0	0	0	0
7/6/2024 22:40	63804	HEMP_T1	1	1	0	6.4	6.4	0	0.13	0.12	0	0	0	0	0	0
7/6/2024 22:40	22901	HARW_T1	22	14	-8	0.5	0.35	-0.15	-0.87	-0.96	2	2	0	2400	2400	0
7/6/2024 22:40	22905	HARW_T1	34	59	25	0.89	0.7	-0.19	0	0	0	0	0	0	0	0
7/6/2024 22:40	16301	ALPA_T1	1	1	0	0.4	0.4	0	0.56	0.41	0	0	0	0	0	0
7/6/2024 22:40	61304	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 22:40	51804	EBEN_T2	0	0	0	0	0	0	-0.84	-0.9	1	1	0	900	900	0
7/6/2024 22:40	57303	MOAL_T2	1	1	0	7.9	7.7	-0.2	0	0	0	0	0	0	0	0
7/6/2024 22:40	61301	EARL_T1	0	0	0	0	0	0	-0.56	-0.57	1	1	0	900	900	0
7/6/2024 22:40	24902	WHHA_T1	2	2	0	0.6	0.25	-0.35	0.38	0.35	0	0	0	0	0	0
7/6/2024 22:40	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:40	14603	SWHI_T1	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1200	1200	0
7/6/2024 22:40	66703	STRA_T1	0	0	0	0	0	0	-0.69	-0.74	0	0	0	0	0	0
7/6/2024 22:40	22903	HARW_T1	4	11	7	0.48	0.41	-0.07	0	0	0	0	0	0	0	0
7/6/2024 22:41	44201	POIN_T1	0	0	0	0	0	0	-1.96	-1.99	1	1	0	1200	1200	0
7/6/2024 22:41	29401	BELT_T1	7	23	16	0.41	0.43	0.02	0	0	0	0	0	0	0	0
7/6/2024 22:41	66505	SMAN_T2	10	9	-1	0.56	0.33	-0.23	-0.02	-0.13	4	4	0	2300	2300	0
7/6/2024 22:41	60701	BREC_T1	0	0	0	0	0	0	0.12	0.07	1	1	0	600	600	0
7/6/2024 22:41	55001	NEWP_T1	0	0	0	0	0	0	-0.45	-0.5	0	0	0	0	0	0
7/6/2024 22:41	61102	BERK_T5	0	0	0	0	0	0	0.13	0.04	2	2	0	600	600	0
7/6/2024 22:41	11507	FREE_T2	6	3	-3	0.43	0	-0.43	0.91	0.74	1	1	0	600	600	0
7/6/2024 22:41	54503	ENOL_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/6/2024 22:41	42201	SHEN_T2	0	0	0	0	0	0	0.22	0.79	1	0	-1	600	0	-600
7/6/2024 22:41	66703	STRA_T1	0	0	0	0	0	0	-0.69	-0.74	0	0	0	0	0	0
7/6/2024 22:41	46302	ROHR_T1	6	8	2	2.17	2.16	-0.01	0.42	0.4	0	0	0	0	0	0
7/6/2024 22:41	54501	ENOL_T2	0	0	0	0	0	0	-0.58	-0.65	2	2	0	1800	1800	0
7/6/2024 22:41	60502	NMAN_T2	0	1	1	0	0	0	0	-0.86	-1.04	0	0	0	0	0
7/6/2024 22:41	64801	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/6/2024 22:41	29402	BELT_T1	116	170	54	1.16	1.24	0.08	0	0	0	0	0	0	0	0
7/6/2024 22:41	25503	MADI_T1	3	3	0	0.17	0.2	0.03	-0.51	-0.55	0	0	0	0	0	0
7/6/2024 22:41	66504	SMAN_T2	2	2	0	1.9	0.2	-1.7	0	0	0	0	0	0	0	0
7/6/2024 22:41	53903	HALI_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
7/6/2024 22:41	65901	SAKR_T2	1	1	0	7.1	7.3	0.2	-0.69	-0.79	2	2	0	1500	1500	0
7/6/2024 22:41	66701	STRA_T1	0	5	5	0	0.64	0.64	0	0	0	0	0	0	0	0
7/6/2024 22:41	25501	MADI_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/6/2024 22:41	54602	SUMM_T2	0	0	0	0	0	0	-3.48	-3.57	1	1	0	600	600	0
7/6/2024 22:41	60501	NMAN_T2	3	3	0	4	4.43	0.43	0	0	0	0	0	0	0	0
7/6/2024 22:41	55002	NEWP_T1	2	3	1	0.75	0.93	0.18	0	0	0	0	0	0	0	0
7/6/2024 22:41	53902	HALI_T2	1	1	0	4.8	5	0.2	-0.79	-0.68	0	0	0	0	0	0
7/6/2024 22:41	12701	MACU_T1	0	0	0	0	0	0	-1.5	-1.55	2	2	0	2400	2400	0
7/6/2024 22:41	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/6/2024 22:42	53903	HALI_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
7/6/2024 22:42	46302	ROHR_T1	6	8	2	2.17	2.16	-0.01	0	0	0	0	0	0	0	0
7/6/2024 22:42	40101	HUNT_T2	0	0	0	0	0	0	-0.96	-0.94	0	0	0	0	0	0
7/6/2024 22:42	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:42	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/6/2024 22:42	67605	WARW_T1	0	0	0	0	0	0	-0.81	-0.86	0	0	0	0	0	0
7/6/2024 22:42	22903	HARW_T1	4	11	7	0.48	0.41	-0.07	0	0	0	0	0	0	0	0
7/6/2024 22:42	57401	SPAN_T1	1	1	0	5.7	0	-5.7	-0.87	-0.91	1	1	0	600	600	0
7/6/2024 22:42	16002	DORN_T2	4	1	-3	0.53	0	-0.53	0.15	0.1	1	1	0	1200	1200	0
7/6/2024 22:42	22905	HARW_T1	34	59	25	0.89	0.7	-0.19	0	0	0	0	0	0	0	0
7/6/2024 22:42	59201	THOM_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
7/6/2024 22:42	56504	ROCK_T2	2	3	1	0.45	0.55	0.1	-1.67	-1.86	0	0	0	0	0	0
7/6/2024 22:42	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:42	57403	SPAN_T1	7	9	2	0.19	0.26	0.07	0	0	0	0	0	0	0	0
7/6/2024 22:42	60701	BREC_T1	0	0	0	0	0	0	0.12	0.07	1	1	0	600	600	0
7/6/2024 22:42	46301	ROHR_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
7/6/2024 22:42	58001	WCAR_T1	2	4	2	0.25	0.3	0.05	0	0	0	0	0	0	0	0
7/6/2024 22:42	59202	THOM_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/6/2024 22:42	67801	WLAN_T1	14	2	-12	0.19	0	-0.19	0	0	0	0	0	0	0	0
7/6/2024 22:42	65601	QVIL_T2	1	0	-1	0.9	0	-0.9	-0.03	-0.07	1	1	0	900	900	0
7/6/2024 22:42	65901	SAKR_T2	1	1	0	7.1	7.3	0.2	-0.69	-0.79	2	2	0	1500	1500	0
7/6/2024 22:42	67804	WLAN_T1	10	8	-2	0.61	0.31	-0.3	0	0	0	0	0	0	0	0
7/6/2024 22:42	43402	BENT_T1	0	0	0	0	0	0	-0.75	-0.75	1	1	0	900	900	0
7/6/2024 22:42	20403	ASHF_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
7/6/2024 22:42	20402	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/6/2024 22:42	65604	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:42	16006	DORN_T2	6	6	0	2.03	0	-2.03	0	0	0	0	0	0	0	0
7/6/2024 22:42	43401	BENT_T1	5	5	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/6/2024 22:42	11102	EGYP_T1	1	4	3	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/6/2024 22:42	61701	ELIZ_T1	1	1	0	3.5	4.2	0.7	0.76	0.75	0	0	0	0	0	0
7/6/2024 22:42	11104	EGYP_T1	0	0	0	0	0	0	-0.1	-0.14	0	0	0	0	0	0
7/6/2024 22:42	56801	BENV_T1	8	7	-1	0.65	1.01	0.36	-0.27	-0.29	1	1	0	600	600	0
7/6/2024 22:42	65904	SAKR_T2	0	0	0	0	0	0	-1.12	-1.13	3	3	0	1500	1500	0
7/6/2024 22:42	67803	WLAN_T1	0	0	0	0	0	0	-0.75	-0.79	0	0	0	0	0	0
7/6/2024 22:42	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/6/2024 22:42	22901	HARW_T1	22	14	-8	0.5	0.35	-0.15	-0.43	-0.48	1	1	0	1200	1200	0
7/6/2024 22:42	53902	HALI_T2	1	1	0	4.8	5	0.2	-0.79	-0.68	0	0	0	0	0	0
7/6/2024 22:42	56501	ROCK_T2	208	0	-208	0.38	0	-0.38	0	0	0	0	0	0	0	0
7/6/2024 22:42	58003	WCAR_T1	1	4	3	1.3	0.45	-0.85	0.47	0.44	1	1	0	600	600	0
7/6/2024 22:42	26401	INOR_T1	1	1	0	6.5	7.2	0.7	1.08	1.01	0	0	0	0	0	0
7/6/2024 22:42	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:42	14801	TREI_T2	197	182	-15	1.88	1.18	-0.7	0	0	0	0	0	0	0	0
7/6/2024 22:43	12601	MACA_T1	1	0	-1	0.1	0	-0.1	1.47	1.43	0	0	0	0	0	0
7/6/2024 22:43	60201	ATGL_T2	0	0	0	0	0	0	0.03	0.1	2	2	0	900	900	0
7/6/2024 22:43	47101	MARL_T1	26	27	1	1.53	0.98	-0.55	-0.81	-0.83	1	1	0	600	600	0
7/6/2024 22:43	51604	DUKE_T2	0	0	0	0	0	0	-2.01	-2.02	1	1	0	900	900	0
7/6/2024 22:43	64302	LINC_T2	3	1	-2	0.83	0	-0.83	1.49	1.41	0	0	0	0	0	0
7/6/2024 22:43	58803	COCO_T1	1	1	0	0.5	1.6	1.1	-2.15	-2.22	2	2	0	1200	1200	0
7/6/2024 22:43	60701	BREC_T1	0	0	0	0	0	0	0.12	0.07	1	1	0	600	600	0
7/6/2024 22:43	57403	SPAN_T1	7	9	2	0.19	0.26	0.07	0	0	0	0	0	0	0	0
7/6/2024 22:43	45602	WOOL_T1	53	55	2	0.85	0.78	-0.07	0.51	0.47	0	0	0	0	0	0
7/6/2024 22:43	66505	SMAN_T2	10	9	-1	0.56	0.33	-0.23	0	0	0	0	0	0	0	0
7/6/2024 22:43	67803	WLAN_T1	0	0	0	0	0	0	-0.75	-0.79	0	0	0	0	0	0
7/6/2024 22:43	62102	ELAN_T1	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
7/6/2024 22:43	52002	LING_T2	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0
7/6/2024 22:43	61202	REIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/6/2024 22:43	56501	ROCK_T2	208	0	-208	0.38	0	-0.38	-2.41	-2.48	0	0	0	0	0	0
7/6/2024 22:43	67801	WLAN_T1	14	2	-12	0.19	0	-0.19	0	0	0	0	0	0	0	0
7/6/2024 22:43	64304	LINC_T2	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/6/2024 22:43	20403	ASHF_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
7/6/2024 22:43	20402	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/6/2024 22:43	47401	PENS_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
7/6/2024 22:43	49803	UNIV_T1	0	0	0	0	0	0	-1.86	-1.93	0	0	0	0	0	0
7/6/2024 22:43	66504	SMAN_T2	2	2	0	1.9	0.2	-1.7	-0.46	-0.42	0	0	0	0	0	0
7/6/2024 22:43	47104	MARL_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/6/2024 22:43	40101	HUNT_T2	0	0	0	0	0	0	-0.96	-0.94	0	0	0	0	0	0
7/6/2024 22:43	12606	MACA_T1	60	57	-3	1.89	1.57	-0.32	0	0	0	0	0	0	0	0
7/6/2024 22:43	67605	WARW_T1	0	0	0	0	0	0	-0.81	-0.86	0	0	0	0	0	0
7/6/2024 22:43	57401	SPAN_T1	1	1	0	5.7	0	-5.7	-1.73	-1.81	2	2	0	1200	1200	0
7/6/2024 22:43	61701	ELIZ_T1	1	1	0	3.5	4.2	0.7	0	0	0	0	0	0	0	0
7/6/2024 22:43	61703	ELIZ_T1	0	0	0	0	0	0	-2.38	-2.4	2	2	0	2100	2100	0
7/6/2024 22:43	12602	MACA_T1	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/6/2024 22:43	52004	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:43	56504	ROCK_T2	2	3	1	0.45	0.55	0.1	-0.56	-0.62	0	0	0	0	0	0
7/6/2024 22:43	63401	HONY_T1	0	0	0	0	0	0	-0.01	0.04	1	1	0	600	600	0
7/6/2024 22:43	54601	SUMM_T2	0	0	0	0	0	0	0	0	6	6	0	6000	6000	0
7/6/2024 22:43	47001	HUGH_T2	3	3	0	6.8	6.97	0.17	-1.3	-1.4	1	1	0	900	900	0
7/6/2024 22:43	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:43	67804	WLAN_T1	10	8	-2	0.61	0.31	-0.3	0	0	0	0	0	0	0	0
7/6/2024 22:44	65901	SAKR_T2	1	1	0	7.1	7.3	0.2	0	0	0	0	0	0	0	0
7/6/2024 22:44	16302	ALPA_T2	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
7/6/2024 22:44	21206	ECAR_T2	15	8	-7	1.22	8	6.78	0.47	0.44	0	0	0	0	0	0
7/6/2024 22:44	66701	STRA_T1	0	5	5	0	0.64	0.64	0.65	0.63	1	1	0	600	600	0
7/6/2024 22:44	61102	BERK_T5	0	0	0	0	0	0	0.06	0.02	1	1	0	300	300	0
7/6/2024 22:44	67605	WARW_T1	0	0	0	0	0	0	-1.62	-1.72	0	0	0	0	0	0
7/6/2024 22:44	66503	SMAN_T2	0	0	0	0	0	0	1.02	1.01	0	0	0	0	0	0
7/6/2024 22:44	59101	WALK_T2	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
7/6/2024 22:44	67204	TEHI_T2	0	0	0	0	0	0	0.1	0.02	0	0	0	0	0	0
7/6/2024 22:44	65904	SAKR_T2	0	0	0	0	0	0	-1.12	-1.13	3	3	0	1500	1500	0
7/6/2024 22:44	52403	GRPA_T2	19	9	-10	0.52	0.43	-0.09	-0.48	-0.53	0	0	0	0	0	0
7/6/2024 22:44	64101	RERR_T1	4	0	-4	1.03	0	-1.03	0.05	0	0	0	0	0	0	0
7/6/2024 22:44	46204	DANV_T2	4	5	1	1.4	0	-1.4	0	0	0	0	0	0	0	0
7/6/2024 22:44	66504	SMAN_T2	2	2	0	1.9	0.2	-1.7	0	0	0	0	0	0	0	0
7/6/2024 22:44	66505	SMAN_T2	10	9	-1	0.56	0.33	-0.23	0	0	0	0	0	0	0	0
7/6/2024 22:44	46203	DANV_T2	3	4	1	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
7/6/2024 22:44	61304	EARL_T1	0	1	1	0	0.1	0.1	0.07	0	1	1	0	600	600	0
7/6/2024 22:44	52402	GRPA_T2	2	3	1	1.5	1.13	-0.37	0	0	0	0	0	0	0	0
7/6/2024 22:44	56504	ROCK_T2	2	3	1	0.45	0.55	0.1	0	0	0	0	0	0	0	0
7/6/2024 22:44	57404	SPAN_T2	0	0	0	0	0	0	-3.54	-3.58	2	2	0	2400	2400	0
7/6/2024 22:44	46206	DANV_T2	3	3	0	0.73	1.45	0.72	0.38	0.42	2	2	0	2100	2100	0
7/6/2024 22:44	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:44	65205	PRIN_T1	1	0	-1	1	0.9	-0.1	0	0	0	0	0	0	0	0
7/6/2024 22:44	59102	WALK_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/6/2024 22:44	56501	ROCK_T2	208	0	-208	0.38	0	-0.38	-1.21	-1.24	0	0	0	0	0	0
7/6/2024 22:45	61701	ELIZ_T1	1	1	0	3.9	4.2	0.3	0	0	0	0	0	0	0	0
7/6/2024 22:45	44905	SCOT_T1	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
7/6/2024 22:45	42903	MIDD_T2	2	2	0	0.7	0.95	0.25	0	0	0	0	0	0	0	0
7/6/2024 22:45	60201	ATGL_T2	0	0	0	0	0	0	0.06	0.2	4	4	0	1800	1800	0
7/6/2024 22:45	56501	ROCK_T2	0	1	1	0	0	0	-2.41	-2.48	0	0	0	0	0	0
7/6/2024 22:45	46206	DANV_T2	3	2	-1	1.1	0.85	-0.25	0.38	0.42	2	2	0	2100	2100	0
7/6/2024 22:45	65503	MOJO_T2	0	0	0	0	0	0	-0.47	-0.5	1	1	0	900	900	0
7/6/2024 22:45	56504	ROCK_T2	3	2	-1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
7/6/2024 22:45	66504	SMAN_T2	2	2	0	1.85	0.1	-1.75	0	0	0	0	0	0	0	0
7/6/2024 22:45	65904	SAKR_T2	0	0	0	0	0	0	-1.12	-1.13	3	3	0	1500	1500	0
7/6/2024 22:45	52403	GRPA_T2	7	6	-1	0.63	0.17	-0.46	0	0	0	0	0	0	0	0
7/6/2024 22:45	67906	WNHO_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/6/2024 22:45	67901	WNHO_T2	142	93	-49	0.38	0.34	-0.04	-0.17	-0.16	0	0	0	0	0	0
7/6/2024 22:45	58202	NEWV_T1	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
7/6/2024 22:45	45602	WOOL_T1	48	58	10	0.69	0.77	0.08	0.51	0.47	0	0	0	0	0	0
7/6/2024 22:45	61202	REIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/6/2024 22:45	52402	GRPA_T2	3	3	0	1.47	1.2	-0.27	0	0	0	0	0	0	0	0
7/6/2024 22:45	51804	EBEN_T2	0	0	0	0	0	0	-0.84	-0.9	1	1	0	900	900	0
7/6/2024 22:45	11405	FARM_T1	0	0	0	0	0	0	0.34	0.24	1	1	0	1200	1200	0
7/6/2024 22:45	66701	STRA_T1	5	5	0	0.86	0	-0.86	0.65	0.63	1	1	0	600	600	0
7/6/2024 22:45	55408	SHER_T2	1	1	0	1.6	2	0.4	-0.55	-0.61	1	1	0	1200	1200	0
7/6/2024 22:45	61801	EELI_T2	0	0	0	0	0	0	1.01	0.91	0	0	0	0	0	0
7/6/2024 22:45	65604	QVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/6/2024 22:45	46203	DANV_T2	4	5	1	0.18	0.3	0.12	-2.41	-2.45	0	0	0	0	0	0
7/6/2024 22:45	52004	LING_T2	0	1	1	0	0.4	0.4	0.2	0.18	0	0	0	0	0	0
7/6/2024 22:45	65603	QVIL_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
7/6/2024 22:45	57401	SPAN_T1	0	1	1	0	0	0	-1.73	-1.81	2	2	0	1200	1200	0
7/6/2024 22:45	57403	SPAN_T1	0	9	9	0	0.26	0.26	0	0	0	0	0	0	0	0
7/6/2024 22:45	61703	ELIZ_T1	0	0	0	0	0	0	-2.38	-2.4	2	2	0	2100	2100	0
7/6/2024 22:45	65901	SAKR_T2	1	1	0	7.1	7.7	0.6	0	0	0	0	0	0	0	0
7/6/2024 22:45	66505	SMAN_T2	8	4	-4	0.41	0.2	-0.21	-0.04	-0.26	8	8	0	4600	4600	0
7/6/2024 22:45	47401	PENS_T1	0	1	1	0	0	0	0.57	0.58	0	0	0	0	0	0
7/6/2024 22:45	52404	GRPA_T2	0	0	0	0	0	0	0.57	0.61	0	0	0	0	0	0
7/6/2024 22:45	16002	DORN_T2	1	0	-1	0.3	0	-0.3	0.15	0.1	1	1	0	1200	1200	0
7/6/2024 22:45	42902	MIDD_T2	0	0	0	0	0	0	-1.02	-1.05	1	1	0	600	600	0
7/6/2024 22:45	63401	HONY_T1	0	0	0	0	0	0	-0.02	0.08	2	2	0	1200	1200	0
7/6/2024 22:45	14801	TREI_T2	180	183	3	1.23	1.06	-0.17	0	0	0	0	0	0	0	0
7/6/2024 22:45	46204	DANV_T2	5	0	-5	1.44	0	-1.44	0	0	0	0	0	0	0	0
7/6/2024 22:45	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:45	43304	WATS_T2	0	2	2	0	0	0	-0.76	-0.77	0	0	0	0	0	0
7/6/2024 22:45	16006	DORN_T2	6	6	0	1.13	0	-1.13	0	0	0	0	0	0	0	0
7/6/2024 22:45	44203	POIN_T2	5	5	0	1.56	1.55	-0.01	-0.77	-0.81	2	2	0	2100	2100	0
7/6/2024 22:45	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/6/2024 22:45	56801	BENV_T1	4	7	3	0.65	1.14	0.49	-0.27	-0.29	1	1	0	600	600	0
7/6/2024 22:45	61802	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:46	56801	BENV_T1	4	7	3	0.65	1.14	0.49	-0.27	-0.29	1	1	0	600	600	0
7/6/2024 22:46	40601	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 22:46	53903	HALI_T2	2	2	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/6/2024 22:46	41902	REED_T1	0	0	0	0	0	0	0.28	0.28	1	1	0	900	900	0
7/6/2024 22:46	59002	MIFF_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/6/2024 22:46	42903	MIDD_T2	2	2	0	0.7	0.95	0.25	0	0	0	0	0	0	0	0
7/6/2024 22:46	52402	GRPA_T2	3	3	0	1.47	1.2	-0.27	0	0	0	0	0	0	0	0
7/6/2024 22:46	59003	MIFF_T1	1	1	0	0.4	0.4	0	-0.55	-0.54	0	0	0	0	0	0
7/6/2024 22:46	13903	SEID_T1	6	5	-1	1.03	0	-1.03	0	0	0	0	0	0	0	0
7/6/2024 22:46	52403	GRPA_T2	7	6	-1	0.63	0.17	-0.46	0	0	0	0	0	0	0	0
7/6/2024 22:46	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:46	53902	HALI_T2	1	1	0	5	4.5	-0.5	-0.79	-0.68	0	0	0	0	0	0
7/6/2024 22:46	60803	BUCK_T1	3	2	-1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
7/6/2024 22:46	29401	BELT_T1	15	23	8	0.44	0.43	-0.01	0	0	1	1	0	900	900	0
7/6/2024 22:46	52401	GRPA_T2	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
7/6/2024 22:46	56501	ROCK_T2	0	1	1	0	0	0	-3.62	-3.72	0	0	0	0	0	0
7/6/2024 22:46	55002	NEWP_T1	3	3	0	0.93	0.9	-0.03	0	0	0	0	0	0	0	0
7/6/2024 22:46	65904	SAKR_T2	0	0	0	0	0	0	-1.12	-1.13	3	3	0	1500	1500	0
7/6/2024 22:46	66504	SMAN_T2	2	2	0	1.85	0.1	-1.75	-0.46	-0.42	0	0	0	0	0	0
7/6/2024 22:46	40602	PIGR_T1	0	1	1	0	0.2	0.2	-1.13	-1.12	1	1	0	600	600	0
7/6/2024 22:46	67605	WARW_T1	0	0	0	0	0	0	-0.81	-0.86	0	0	0	0	0	0
7/6/2024 22:46	63304	GREE_T1	0	0	0	0	0	0	-2.21	-2.31	0	0	0	0	0	0
7/6/2024 22:46	66505	SMAN_T2	8	4	-4	0.41	0.2	-0.21	0	0	0	0	0	0	0	0
7/6/2024 22:46	65901	SAKR_T2	1	1	0	7.1	7.7	0.6	0	0	0	0	0	0	0	0
7/6/2024 22:46	65604	QVIL_T2	1	0	-1	0.4	0	-0.4	0.97	0.91	0	0	0	0	0	0
7/6/2024 22:46	22601	KIMB_T1	1	1	0	1.4	0	-1.4	0	0	0	0	0	0	0	0
7/6/2024 22:46	41901	REED_T1	8	9	1	0.21	0.33	0.12	0	0	0	0	0	0	0	0
7/6/2024 22:46	13904	SEID_T1	17	4	-13	0.28	0.6	0.32	-0.39	-0.39	0	0	0	0	0	0
7/6/2024 22:46	56504	ROCK_T2	3	2	-1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
7/6/2024 22:46	23401	HONE_T2	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
7/6/2024 22:46	22602	KIMB_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
7/6/2024 22:46	53901	HALI_T2	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/6/2024 22:46	43304	WATS_T2	0	2	2	0	0	0	-0.76	-0.77	0	0	0	0	0	0
7/6/2024 22:46	55001	NEWP_T1	0	0	0	0	0	0	-0.45	-0.5	0	0	0	0	0	0
7/6/2024 22:46	60801	BUCK_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
7/6/2024 22:46	29402	BELT_T1	148	161	13	1.21	1.26	0.05	0	0	0	0	0	0	0	0
7/6/2024 22:46	47101	MARL_T1	26	43	17	0.92	1.03	0.11	-0.81	-0.83	1	1	0	600	600	0
7/6/2024 22:46	42902	MIDD_T2	0	0	0	0	0	0	-1.02	-1.05	1	1	0	600	600	0
7/6/2024 22:47	51604	DUKE_T2	0	0	0	0	0	0	-2.01	-2.02	1	1	0	900	900	0
7/6/2024 22:47	64801	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/6/2024 22:47	43304	WATS_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:47	40101	HUNT_T2	0	0	0	0	0	0	-0.96	-0.94	0	0	0	0	0	0
7/6/2024 22:47	52401	GRPA_T2	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
7/6/2024 22:47	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/6/2024 22:47	67804	WLAN_T1	8	7	-1	0.36	0.18	-0.18	0	0	0	0	0	0	0	0
7/6/2024 22:47	51002	NHAR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 22:47	14801	TREI_T2	180	183	3	1.23	1.06	-0.17	0	0	0	0	0	0	0	0
7/6/2024 22:47	11001	EGRE_T1	0	0	0	0	0	0	-0.34	-0.39	1	1	0	1200	1200	0
7/6/2024 22:47	43301	WATS_T2	0	0	0	0	0	0	-0.24	-0.21	1	1	0	900	900	0
7/6/2024 22:47	64101	REFR_T1	0	0	0	0	0	0	0.15	0.01	0	0	0	0	0	0
7/6/2024 22:47	42201	SHEN_T2	0	0	0	0	0	0	0.22	0.79	1	0	-1	600	0	-600
7/6/2024 22:47	14404	SSLA_T1	3	7	4	0.8	1.45	0.65	0	0	0	0	0	0	0	0
7/6/2024 22:47	14403	SSLA_T1	0	0	0	0	0	0	0.03	0.02	2	2	0	1200	1200	0
7/6/2024 22:47	51004	NHAR_T1	1	1	0	6.6	6.7	0.1	-1.18	-1.18	0	0	0	0	0	0
7/6/2024 22:47	51003	NHAR_T1	0	0	0	0	0	0	2.81	2.8	1	1	0	1200	1200	0
7/6/2024 22:47	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:47	49803	UNIV_T1	0	0	0	0	0	0	-1.86	-1.93	0	0	0	0	0	0
7/6/2024 22:47	45602	WOOL_T1	48	58	10	0.69	0.77	0.08	0.51	0.47	0	0	0	0	0	0
7/6/2024 22:47	56501	ROCK_T2	0	1	1	0	0	0	-1.21	-1.24	0	0	0	0	0	0
7/6/2024 22:47	45702	LIND_T2	0	0	0	0	0	0	-1.25	-1.29	0	0	0	0	0	0
7/6/2024 22:47	52402	GRPA_T2	3	3	0	1.47	1.2	-0.27	0	0	0	0	0	0	0	0
7/6/2024 22:47	66505	SMAN_T2	8	4	-4	0.41	0.2	-0.21	0	0	0	0	0	0	0	0
7/6/2024 22:47	67801	WLAN_T1	2	0	-2	0.25	0	-0.25	-1.84	-1.88	0	0	0	0	0	0
7/6/2024 22:47	52403	GRPA_T2	7	6	-1	0.63	0.17	-0.46	0	0	0	0	0	0	0	0
7/6/2024 22:47	47401	PENS_T1	0	1	1	0	0	0	0.19	0.19	0	0	0	0	0	0
7/6/2024 22:47	67201	TEHI_T1	1	3	2	0.2	0.17	-0.03	0.71	0.74	0	0	0	0	0	0
7/6/2024 22:47	54501	ENOL_T2	0	0	0	0	0	0	-0.58	-0.65	2	2	0	1800	1800	0
7/6/2024 22:47	67703	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	2	2	0	1800	1800	0
7/6/2024 22:47	56504	ROCK_T2	3	2	-1	0.7	0.5	-0.2	-0.56	-0.62	0	0	0	0	0	0
7/6/2024 22:47	66504	SMAN_T2	2	2	0	1.85	0.1	-1.75	-0.46	-0.42	0	0	0	0	0	0
7/6/2024 22:47	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:47	58102	NEIL_T1	1	1	0	0.8	0.9	0.1	-1.46	-1.45	1	1	0	1200	1200	0
7/6/2024 22:47	58803	COCO_T1	1	1	0	1	1.6	0.6	-1.07	-1.11	1	1	0	600	600	0
7/6/2024 22:47	44301	BEAV_T2	0	2	2	0	0	0	-0.51	-0.56	1	1	0	600	600	0
7/6/2024 22:47	65503	MOJO_T2	0	0	0	0	0	0	-0.47	-0.5	1	1	0	900	900	0
7/6/2024 22:48	55408	SHER_T2	1	1	0	1.6	2	0.4	-0.55	-0.61	1	1	0	1200	1200	0
7/6/2024 22:48	52402	GRPA_T2	3	3	0	1.47	1.2	-0.27	0	0	0	0	0	0	0	0
7/6/2024 22:48	52404	GRPA_T2	0	0	0	0	0	0	-1.72	-1.82	0	0	0	0	0	0
7/6/2024 22:48	46204	DANV_T2	5	0	-5	1.44	0	-1.44	0	0	0	0	0	0	0	0
7/6/2024 22:48	60502	NMAN_T2	0	0	0	0	0	0	-0.43	-0.52	0	0	0	0	0	0
7/6/2024 22:48	43304	WATS_T2	0	2	2	0	0	0	-0.76	-0.77	0	0	0	0	0	0
7/6/2024 22:48	41901	REED_T1	8	9	1	0.21	0.33	0.12	0	0	0	0	0	0	0	0
7/6/2024 22:48	46101	MACI_T2	0	0	0	0	0	0	-0.47	-0.48	1	1	0	1200	1200	0
7/6/2024 22:48	52403	GRPA_T2	7	6	-1	0.63	0.17	-0.46	0	0	0	0	0	0	0	0
7/6/2024 22:48	57304	MOAL_T2	0	0	0	0	0	0	-0.33	-0.48	0	0	0	0	0	0
7/6/2024 22:48	60701	BREC_T1	0	0	0	0	0	0	0.25	0.14	2	2	0	1200	1200	0
7/6/2024 22:48	41902	REED_T1	0	0	0	0	0	0	0.28	0.28	1	1	0	900	900	0
7/6/2024 22:48	55405	SHER_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
7/6/2024 22:48	61703	ELIZ_T1	0	0	0	0	0	0	-4.8	-4.8	4	4	0	4200	4200	0
7/6/2024 22:48	61701	ELIZ_T1	1	1	0	3.9	4.2	0.3	0	0	0	0	0	0	0	0
7/6/2024 22:48	54602	SUMM_T2	0	0	0	0	0	0	-3.48	-3.57	1	1	0	600	600	0
7/6/2024 22:48	66703	STRA_T1	0	0	0	0	0	0	-0.69	-0.74	0	0	0	0	0	0
7/6/2024 22:48	46206	DANV_T2	3	2	-1	1.1	0.85	-0.25	0	0	0	0	0	0	0	0
7/6/2024 22:48	46203	DANV_T2	4	5	1	0.18	0.3	0.12	-4.83	-4.89	0	0	0	0	0	0
7/6/2024 22:48	56801	BENV_T1	4	7	3	0.65	1.14	0.49	-0.54	-0.59	2	2	0	1200	1200	0
7/6/2024 22:48	55001	NEWP_T1	0	0	0	0	0	0	-0.45	-0.5	0	0	0	0	0	0
7/6/2024 22:48	64101	REFR_T1	0	0	0	0	0	0	0.1	0.01	0	0	0	0	0	0
7/6/2024 22:48	45802	HEGI_T2	37	46	9	0.92	1.19	0.27	0.18	0.3	0	0	0	0	0	0
7/6/2024 22:48	55002	NEWP_T1	3	3	0	0.93	0.9	-0.03	0	0	0	0	0	0	0	0
7/6/2024 22:48	57303	MOAL_T2	1	1	0	7.8	7.2	-0.6	0	0	0	0	0	0	0	0
7/6/2024 22:48	66701	STRA_T1	5	5	0	0.86	0	-0.86	0	0	0	0	0	0	0	0
7/6/2024 22:48	57301	MOAL_T2	1	2	1	1.7	0	-1.7	0	0	0	0	0	0	0	0
7/6/2024 22:48	44203	POIN_T2	5	5	0	1.56	1.55	-0.01	-0.77	-0.81	2	2	0	2100	2100	0
7/6/2024 22:48	60501	NMAN_T2	3	4	1	4.33	4.67	0.34	0	0	0	0	0	0	0	0
7/6/2024 22:48	59102	WALK_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/6/2024 22:48	59101	WALK_T2	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
7/6/2024 22:49	57106	SPHI_T2	3	3	0	0.8	0.73	-0.07	0	0	0	0	0	0	0	0
7/6/2024 22:49	20403	ASHF_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
7/6/2024 22:49	47101	MARL_T1	26	43	17	0.92	1.03	0.11	-4.84	-4.97	6	6	0	3600	3600	0
7/6/2024 22:49	42903	MIDD_T2	2	2	0	0.7	0.95	0.25	0	0	0	0	0	0	0	0
7/6/2024 22:49	64101	REFR_T1	0	0	0	0	0	0	0.1	0.01	0	0	0	0	0	0
7/6/2024 22:49	57304	MOAL_T2	0	0	0	0	0	0	-0.33	-0.48	0	0	0	0	0	0
7/6/2024 22:49	46203	DANV_T2	4	5	1	0.18	0.3	0.12	-4.83	-4.89	0	0	0	0	0	0
7/6/2024 22:49	43304	WATS_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:49	20603	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 22:49	57301	MOAL_T2	1	2	1	1.7	0	-1.7	0.81	0.81	0	0	0	0	0	0
7/6/2024 22:49	51804	EBEN_T2	0	0	0	0	0	0	-0.84	-0.9	1	1	0	900	900	0
7/6/2024 22:49	58003	WCAR_T1	4	1	-3	0.45	1.2	0.75	0.47	0.44	1	1	0	600	600	0
7/6/2024 22:49	46204	DANV_T2	5	0	-5	1.44	0	-1.44	0	0	0	0	0	0	0	0
7/6/2024 22:49	57303	MOAL_T2	1	1	0	7.8	7.2	-0.6	0	0	0	0	0	0	0	0
7/6/2024 22:49	43302	WATS_T2	0	0	0	0	0	0	-0.74	-0.72	2	2	0	1800	1800	0
7/6/2024 22:49	55101	WERT_T1	0	0	0	0	0	0	-2.48	-2.51	4	4	0	3300	3300	0
7/6/2024 22:49	61703	ELIZ_T1	0	0	0	0	0	0	-2.38	-2.4	2	2	0	2100	2100	0
7/6/2024 22:49	65902	SAKR_T2	0	0	0	0	0	0	-1.2	-1.21	2	2	0	1200	1200	0
7/6/2024 22:49	58001	WCAR_T1	4	1	-3	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/6/2024 22:49	61701	ELIZ_T1	1	1	0	3.9	4.2	0.3	0	0	0	0	0	0	0	0
7/6/2024 22:49	42902	MIDD_T2	0	0	0	0	0	0	-1.02	-1.05	1	1	0	600	600	0
7/6/2024 22:49	55105	WERT_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/6/2024 22:49	55405	SHER_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
7/6/2024 22:49	46206	DANV_T2	3	2	-1	1.1	0.85	-0.25	0.38	0.42	2	2	0	2100	2100	0
7/6/2024 22:49	20401	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/6/2024 22:49	20601	GRWO_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
7/6/2024 22:49	57103	SPHI_T2	0	0	0	0	0	0	-0.31	-0.37	1	1	0	600	600	0
7/6/2024 22:49	65901	SAKR_T2	1	1	0	7.1	7.7	0.6	0	0	0	0	0	0	0	0
7/6/2024 22:49	62102	ELAN_T1	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
7/6/2024 22:50	47401	PENS_T1	0	1	1	0	0	0	0.19	0.19	0	0	0	0	0	0
7/6/2024 22:50	48303	ORWI_T2	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
7/6/2024 22:50	52403	GRPA_T2	7	6	-1	0.63	0.17	-0.46	0	0	0	0	0	0	0	0
7/6/2024 22:50	42902	MIDD_T2	0	0	0	0	0	0	-2.03	-2.09	2	2	0	1200	1200	0
7/6/2024 22:50	44301	BEAV_T2	0	2	2	0	0	0	-0.51	-0.56	1	1	0	600	600	0
7/6/2024 22:50	52401	GRPA_T2	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
7/6/2024 22:50	56501	ROCK_T2	0	1	1	0	0	0	-3.62	-3.72	0	0	0	0	0	0
7/6/2024 22:50	42903	MIDD_T2	2	2	0	0.7	0.95	0.25	0	0	0	0	0	0	0	0
7/6/2024 22:50	52002	LING_T2	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0
7/6/2024 22:50	67605	WARW_T1	0	0	0	0	0	0	-0.81	-0.86	0	0	0	0	0	0
7/6/2024 22:50	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:50	65904	SAKR_T2	0	0	0	0	0	0	-1.12	-1.13	3	3	0	1500	1500	0
7/6/2024 22:50	40601	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 22:50	47001	HUGH_T2	3	3	0	6.7	7.2	0.5	-1.3	-1.4	1	1	0	900	900	0
7/6/2024 22:50	52402	GRPA_T2	3	3	0	1.47	1.2	-0.27	-0.45	-0.44	0	0	0	0	0	0
7/6/2024 22:50	43304	WATS_T2	0	2	2	0	0	0	-1.53	-1.54	0	0	0	0	0	0
7/6/2024 22:50	46203	DANV_T2	4	5	1	0.18	0.3	0.12	-2.41	-2.45	0	0	0	0	0	0
7/6/2024 22:50	46204	DANV_T2	5	0	-5	1.44	0	-1.44	0	0	0	0	0	0	0	0
7/6/2024 22:50	56504	ROCK_T2	3	2	-1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
7/6/2024 22:50	14801	TREI_T2	180	183	3	1.23	1.06	-0.17	0	0	0	0	0	0	0	0
7/6/2024 22:50	46001	BERW_T1	0	0	0	0	0	0	-0.14	-0.18	0	0	0	0	0	0
7/6/2024 22:50	40602	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/6/2024 22:50	55002	NEWP_T1	3	3	0	0.93	0.9	-0.03	0	0	0	0	0	0	0	0
7/6/2024 22:50	45801	HEGI_T1	0	0	0	0	0	0	-0.57	-0.6	1	1	0	900	900	0
7/6/2024 22:50	52004	LING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/6/2024 22:50	65901	SAKR_T2	1	1	0	7.1	7.7	0.6	0	0	0	0	0	0	0	0
7/6/2024 22:50	46206	DANV_T2	3	2	-1	1.1	0.85	-0.25	0	0	0	0	0	0	0	0
7/6/2024 22:50	55001	NEWP_T1	0	0	0	0	0	0	-0.9	-1	0	0	0	0	0	0
7/6/2024 22:50	40603	PIGR_T1	0	0	0	0	0	0	0.7	0.69	0	0	0	0	0	0
7/6/2024 22:51	43304	WATS_T2	0	2	2	0	0	0	-1.54	-0.81	0	0	0	0	0	0
7/6/2024 22:51	41902	REED_T1	0	0	0	0	0	0	0.28	0.28	1	1	0	900	900	0
7/6/2024 22:51	52004	LING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/6/2024 22:51	56501	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:51	21201	ECAR_T1	2	2	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/6/2024 22:51	56504	ROCK_T2	3	2	-1	0.7	0.5	-0.2	-0.56	-0.62	0	0	0	0	0	0
7/6/2024 22:51	46204	DANV_T2	5	0	-5	1.44	0	-1.44	0	0	0	0	0	0	0	0
7/6/2024 22:51	43201	MVIL_T2	5	1	-4	0.44	0	-0.44	0	0	0	0	0	0	0	0
7/6/2024 22:51	54701	NEBL_T1	1	3	2	1.3	1.3	0	0.01	0	1	1	0	600	600	0
7/6/2024 22:51	63304	GREE_T1	0	0	0	0	0	0	-2.31	-2.39	0	0	0	0	0	0
7/6/2024 22:51	46203	DANV_T2	4	5	1	0.18	0.3	0.12	-2.45	-2.49	0	0	0	0	0	0
7/6/2024 22:51	52403	GRPA_T2	7	6	-1	0.63	0.17	-0.46	0	0	0	0	0	0	0	0
7/6/2024 22:51	52402	GRPA_T2	3	3	0	1.47	1.2	-0.27	-0.45	-0.44	0	0	0	0	0	0
7/6/2024 22:51	52002	LING_T2	0	0	0	0	0	0	-0.25	-0.35	0	0	0	0	0	0
7/6/2024 22:51	41901	REED_T1	8	9	1	0.21	0.33	0.12	0	0	0	0	0	0	0	0
7/6/2024 22:51	21203	ECAR_T1	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
7/6/2024 22:51	40601	PIGR_T1	0	2	2	0	0.1	0.1	-0.39	-0.44	0	0	0	0	0	0
7/6/2024 22:51	27605	PIRI_T2	96	70	-26	1.05	0.7	-0.35	1.21	1.21	0	0	0	0	0	0
7/6/2024 22:51	62102	ELAN_T1	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
7/6/2024 22:51	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:51	45801	HEGI_T1	0	0	0	0	0	0	-0.57	-0.6	1	1	0	900	900	0
7/6/2024 22:51	40602	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/6/2024 22:51	67605	WARW_T1	0	0	0	0	0	0	-0.86	-0.74	0	0	0	0	0	0
7/6/2024 22:51	40101	HUNT_T2	0	0	0	0	0	0	-0.96	-0.94	0	0	0	0	0	0
7/6/2024 22:51	43202	MVIL_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
7/6/2024 22:51	46206	DANV_T2	3	2	-1	1.1	0.85	-0.25	0	0	0	0	0	0	0	0
7/6/2024 22:51	46302	ROHR_T1	5	8	3	2.96	2.17	-0.79	0.4	0.39	0	0	0	0	0	0
7/6/2024 22:51	56801	BENV_T1	4	7	3	0.65	1.14	0.49	-0.27	-0.29	1	1	0	600	600	0
7/6/2024 22:52	64202	KINZ_T1	2	2	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/6/2024 22:52	56801	BENV_T1	4	7	3	0.65	1.14	0.49	-0.88	-1.07	3	3	0	1800	1800	0
7/6/2024 22:52	59102	WALK_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/6/2024 22:52	57403	SPAN_T1	0	9	9	0	0.26	0.26	0	0	0	0	0	0	0	0
7/6/2024 22:52	43201	MVIL_T2	5	1	-4	0.44	0	-0.44	0	0	0	0	0	0	0	0
7/6/2024 22:52	22905	HARW_T1	54	47	-7	1.01	0.62	-0.39	0	0	0	0	0	0	0	0
7/6/2024 22:52	42903	MIDD_T2	2	2	0	0.7	0.95	0.25	-1.34	-1.38	1	1	0	1200	1200	0
7/6/2024 22:52	58701	ROSE_T2	0	0	0	0	0	0	-1.72	-1.76	1	1	0	600	600	0
7/6/2024 22:52	44201	POIN_T1	0	13	13	0	0.12	0.12	-1.99	-2.07	1	1	0	1200	1200	0
7/6/2024 22:52	66701	STRA_T1	5	5	0	0.86	0	-0.86	0.63	0.58	1	1	0	600	600	0
7/6/2024 22:52	64203	KINZ_T1	0	0	0	0	0	0	-0.04	-0.04	1	1	0	600	600	0
7/6/2024 22:52	64204	KINZ_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
7/6/2024 22:52	57401	SPAN_T1	0	1	1	0	0	0	-1.81	-1.9	2	2	0	1200	1200	0
7/6/2024 22:52	47401	PENS_T1	0	1	1	0	0	0	0.39	0.36	0	0	0	0	0	0
7/6/2024 22:52	22903	HARW_T1	7	11	4	0.54	0.41	-0.13	0	0	0	0	0	0	0	0
7/6/2024 22:52	20603	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 22:52	52002	LING_T2	0	0	0	0	0	0	-0.17	-0.24	0	0	0	0	0	0
7/6/2024 22:52	43202	MVIL_T2	0	0	0	0	0	0	-0.98	-1.01	0	0	0	0	0	0
7/6/2024 22:52	42902	MIDD_T2	0	0	0	0	0	0	-2.09	-2.11	2	2	0	1200	1200	0
7/6/2024 22:52	20601	GRWO_T2	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
7/6/2024 22:52	59101	WALK_T2	0	0	0	0	0	0	0.01	-0.05	0	0	0	0	0	0
7/6/2024 22:52	58706	ROSE_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/6/2024 22:52	22901	HARW_T1	12	13	1	0.42	0.29	-0.13	-0.48	-0.46	1	1	0	1200	1200	0
7/6/2024 22:52	52004	LING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/6/2024 22:53	41901	REED_T1	8	9	1	0.21	0.33	0.12	0	0	0	0	0	0	0	0
7/6/2024 22:53	56504	ROCK_T2	3	2	-1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
7/6/2024 22:53	56501	ROCK_T2	0	1	1	0	0	0	-1.24	-1.28	0	0	0	0	0	0
7/6/2024 22:53	46203	DANV_T2	4	5	1	0.18	0.3	0.12	-2.45	-2.49	0	0	0	0	0	0
7/6/2024 22:53	44301	BEAV_T2	0	2	2	0	0	0	-0.56	-0.59	1	1	0	600	600	0
7/6/2024 22:53	46206	DANV_T2	3	2	-1	1.1	0.85	-0.25	0	0	0	0	0	0	0	0
7/6/2024 22:53	41902	REED_T1	0	0	0	0	0	0	0.28	0.28	1	1	0	900	900	0
7/6/2024 22:53	47101	MARL_T1	26	43	17	0.92	1.03	0.11	-0.83	-0.21	1	0	-1	600	0	-600
7/6/2024 22:53	55003	NEWP_T2	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
7/6/2024 22:53	56801	BENV_T1	4	7	3	0.65	1.14	0.49	-0.88	-1.07	3	3	0	1800	1800	0
7/6/2024 22:53	42201	SHEN_T2	0	0	0	0	0	0	0.79	0.81	0	0	0	0	0	0
7/6/2024 22:53	46204	DANV_T2	5	0	-5	1.44	0	-1.44	0	0	0	0	0	0	0	0
7/6/2024 22:53	53903	HALI_T2	2	2	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/6/2024 22:53	45302	WBER_T2	0	0	0	0	0	0	1.11	1.11	0	0	0	0	0	0
7/6/2024 22:53	53902	HALI_T2	1	1	0	5	4.5	-0.5	-0.68	-0.67	0	0	0	0	0	0
7/6/2024 22:53	58402	MORO_T1	0	0	0	0	0	0	0.13	0.04	2	2	0	1500	1500	0
7/6/2024 22:53	43304	WATS_T2	0	2	2	0	0	0	-0.77	-0.4	0	0	0	0	0	0
7/6/2024 22:54	66505	SMAN_T2	8	4	-4	0.41	0.2	-0.21	0	0	0	0	0	0	0	0
7/6/2024 22:54	43401	BENT_T1	5	0	-5	1.58	0	-1.58	0	0	0	0	0	0	0	0
7/6/2024 22:54	43304	WATS_T2	0	2	2	0	0	0	-0.77	-0.4	0	0	0	0	0	0
7/6/2024 22:54	46206	DANV_T2	3	2	-1	1.1	0.85	-0.25	0	0	0	0	0	0	0	0
7/6/2024 22:54	41902	REED_T1	0	0	0	0	0	0	0.28	0.28	1	1	0	900	900	0
7/6/2024 22:54	46204	DANV_T2	5	0	-5	1.44	0	-1.44	0	0	0	0	0	0	0	0
7/6/2024 22:54	52002	LING_T2	0	0	0	0	0	0	-0.17	-0.24	0	0	0	0	0	0
7/6/2024 22:54	59101	WALK_T2	0	0	0	0	0	0	0.01	-0.05	0	0	0	0	0	0
7/6/2024 22:54	59102	WALK_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/6/2024 22:54	52403	GRPA_T2	7	6	-1	0.63	0.17	-0.46	-0.53	-0.54	0	0	0	0	0	0
7/6/2024 22:54	41901	REED_T1	8	9	1	0.21	0.33	0.12	0	0	0	0	0	0	0	0
7/6/2024 22:54	43402	BENT_T1	0	0	0	0	0	0	-0.75	-0.77	1	1	0	900	900	0
7/6/2024 22:54	52402	GRPA_T2	3	3	0	1.47	1.2	-0.27	0	0	0	0	0	0	0	0
7/6/2024 22:54	67605	WARW_T1	0	0	0	0	0	0	-0.86	-0.74	0	0	0	0	0	0
7/6/2024 22:54	52004	LING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/6/2024 22:54	66504	SMAN_T2	2	2	0	1.85	0.1	-1.75	-0.42	-0.46	0	0	0	0	0	0
7/6/2024 22:54	46203	DANV_T2	4	5	1	0.18	0.3	0.12	-2.45	-2.49	0	0	0	0	0	0
7/6/2024 22:55	42902	MIDD_T2	0	0	0	0	0	0	-1.05	-1.06	1	1	0	600	600	0
7/6/2024 22:55	56801	BENV_T1	4	7	3	0.65	1.14	0.49	-0.29	-0.36	1	1	0	600	600	0
7/6/2024 22:55	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/6/2024 22:55	43304	WATS_T2	0	2	2	0	0	0	-1.54	-0.81	0	0	0	0	0	0
7/6/2024 22:55	47101	MARL_T1	26	43	17	0.92	1.03	0.11	-0.83	-0.21	1	0	-1	600	0	-600
7/6/2024 22:55	52403	GRPA_T2	7	6	-1	0.63	0.17	-0.46	-0.53	-0.54	0	0	0	0	0	0
7/6/2024 22:55	52402	GRPA_T2	3	3	0	1.47	1.2	-0.27	0	0	0	0	0	0	0	0
7/6/2024 22:55	42201	SHEN_T2	0	0	0	0	0	0	0.79	0.81	0	0	0	0	0	0
7/6/2024 22:55	42903	MIDD_T2	2	2	0	0.7	0.95	0.25	0	0	0	0	0	0	0	0
7/6/2024 22:56	46204	DANV_T2	5	0	-5	1.44	0	-1.44	0	0	0	0	0	0	0	0
7/6/2024 22:56	46206	DANV_T2	3	2	-1	1.1	0.85	-0.25	0	0	0	0	0	0	0	0
7/6/2024 22:56	46203	DANV_T2	4	5	1	0.18	0.3	0.12	-2.45	-2.49	0	0	0	0	0	0
7/6/2024 22:56	57702	PAXT_T1	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
7/6/2024 22:56	47401	PENS_T1	0	1	1	0	0	0	0.19	0.18	0	0	0	0	0	0
7/6/2024 22:56	44301	BEAV_T2	0	2	2	0	0	0	-0.56	-0.59	1	1	0	600	600	0
7/6/2024 22:56	44203	POIN_T2	5	5	0	1.56	1.55	-0.01	-0.81	-0.9	2	2	0	2100	2100	0
7/6/2024 22:57	52402	GRPA_T2	3	3	0	1.47	1.2	-0.27	0	0	0	0	0	0	0	0
7/6/2024 22:57	49804	UNIV_T1	0	0	0	0	0	0	1.01	0.98	0	0	0	0	0	0
7/6/2024 22:57	60701	BREC_T1	0	0	0	0	0	0	0.07	0.04	1	1	0	600	600	0
7/6/2024 22:57	47401	PENS_T1	0	1	1	0	0	0	0.19	0.18	0	0	0	0	0	0
7/6/2024 22:57	52403	GRPA_T2	7	6	-1	0.63	0.17	-0.46	-0.53	-0.54	0	0	0	0	0	0
7/6/2024 22:57	57003	WHHI_T2	0	14	14	0	0	0	0	0	0	0	0	0	0	0
7/6/2024 22:57	57004	WHHI_T2	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
7/6/2024 22:58	59101	WALK_T2	0	0	0	0	0	0	0.01	-0.05	0	0	0	0	0	0
7/6/2024 22:58	20801	LOPO_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
7/6/2024 22:58	59102	WALK_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/6/2024 22:58	40101	HUNT_T2	0	0	0	0	0	0	-0.94	-0.98	0	0	0	0	0	0
7/6/2024 22:58	46302	ROHR_T1	5	8	3	2.96	2.17	-0.79	0.4	0.39	0	0	0	0	0	0
7/6/2024 22:59	44905	SCOT_T1	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
7/6/2024 23:00	49804	UNIV_T1	0	0	0	0	0	0	1.01	0.98	0	0	0	0	0	0
7/6/2024 23:02	61301	EARL_T1	0	0	0	0	0	0	-0.57	-0.57	1	1	0	900	900	0
7/6/2024 23:02	61304	EARL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/6/2024 23:07	52004	LING_T2	1	1	0	0.4	0	-0.4	0.19	0.11	0	0	0	0	0	0
7/6/2024 23:10	57401	SPAN_T1	1	1	0	1.8	0	-1.8	-1.9	-1.97	2	2	0	1200	1200	0
7/6/2024 23:10	57403	SPAN_T1	9	0	-9	0.26	0	-0.26	0	0	0	0	0	0	0	0
7/6/2024 23:12	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
7/6/2024 23:12	64202	KINZ_T1	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/6/2024 23:12	64203	KINZ_T1	0	0	0	0	0	0	-0.04	-0.02	1	1	0	600	600	0
7/6/2024 23:13	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
7/6/2024 23:13	64202	KINZ_T1	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/6/2024 23:13	64203	KINZ_T1	0	0	0	0	0	0	-0.04	-0.02	1	1	0	600	600	0
7/6/2024 23:16	67605	WARW_T1	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
7/6/2024 23:17	67605	WARW_T1	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
7/6/2024 23:24	64101	REFR_T1	0	0	0	0	0	0	1.57	1.53	0	0	0	0	0	0
7/6/2024 23:26	64101	REFR_T1	0	0	0	0	0	0	0.78	0.77	0	0	0	0	0	0
7/6/2024 23:34	64203	KINZ_T1	0	0	0	0	0	0	-0.02	-0.01	1	1	0	600	600	0
7/6/2024 23:34	64202	KINZ_T1	1	3	2	0.1	0.25	0.15	0	0	0	0	0	0	0	0
7/6/2024 23:34	64204	KINZ_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
7/6/2024 23:34	64201	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/6/2024 23:35	64204	KINZ_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
7/6/2024 23:35	64203	KINZ_T1	0	0	0	0	0	0	-0.02	-0.01	1	1	0	600	600	0
7/6/2024 23:35	64201	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/6/2024 23:35	64202	KINZ_T1	1	3	2	0.1	0.25	0.15	0	0	0	0	0	0	0	0
7/6/2024 23:37	67605	WARW_T1	0	0	0	0	0	0	-0.74	-0.68	0	0	0	0	0	0
7/6/2024 23:38	67605	WARW_T1	0	0	0	0	0	0	-0.74	-0.68	0	0	0	0	0	0
7/6/2024 23:56	64202	KINZ_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/6/2024 23:56	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.05	1	1	0	600	600	0
7/6/2024 23:56	64204	KINZ_T1	1	0	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
7/6/2024 23:56	64201	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/6/2024 23:57	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.05	1	1	0	600	600	0
7/6/2024 23:57	64204	KINZ_T1	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
7/6/2024 23:57	64201	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/6/2024 23:57	64202	KINZ_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/6/2024 23:59	67605	WARW_T1	0	0	0	0	0	0	-0.68	-0.75	0	0	0	0	0	0
7/7/2024 0:00	67605	WARW_T1	0	0	0	0	0	0	-0.68	-0.75	0	0	0	0	0	0
7/7/2024 0:17	64201	KINZ_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
7/7/2024 0:17	64202	KINZ_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
7/7/2024 0:17	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
7/7/2024 0:17	64203	KINZ_T1	0	0	0	0	0	0	-0.05	-0.07	1	1	0	600	600	0
7/7/2024 0:18	64201	KINZ_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
7/7/2024 0:18	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
7/7/2024 0:18	64202	KINZ_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
7/7/2024 0:18	64203	KINZ_T1	0	0	0	0	0	0	-0.05	-0.07	1	1	0	600	600	0
7/7/2024 0:21	67605	WARW_T1	0	0	0	0	0	0	-0.75	-0.79	0	0	0	0	0	0
7/7/2024 0:22	67605	WARW_T1	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
7/7/2024 0:39	64202	KINZ_T1	2	3	1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
7/7/2024 0:39	64204	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 0:39	64203	KINZ_T1	0	0	0	0	0	0	-0.03	0.02	1	1	0	600	600	0
7/7/2024 0:39	64201	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/7/2024 0:40	64203	KINZ_T1	0	0	0	0	0	0	-0.03	0.02	1	1	0	600	600	0
7/7/2024 0:40	64202	KINZ_T1	2	3	1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
7/7/2024 0:40	64204	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 0:40	64201	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/7/2024 0:43	67605	WARW_T1	0	0	0	0	0	0	-0.8	-0.86	0	0	0	0	0	0
7/7/2024 0:44	67605	WARW_T1	0	0	0	0	0	0	-0.8	-0.86	0	0	0	0	0	0
7/7/2024 0:51	67201	TEHI_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
7/7/2024 0:51	67203	TEHI_T1	0	0	0	0	0	0	1.36	1.35	1	1	0	900	900	0
7/7/2024 1:01	64203	KINZ_T1	0	0	0	0	0	0	0.02	-0.01	1	1	0	600	600	0
7/7/2024 1:01	64204	KINZ_T1	1	2	1	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
7/7/2024 1:01	64202	KINZ_T1	3	3	0	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
7/7/2024 1:01	64201	KINZ_T1	1	5	4	0.9	0.42	-0.48	0	0	0	0	0	0	0	0
7/7/2024 1:02	64201	KINZ_T1	1	5	4	0.9	0.42	-0.48	0	0	0	0	0	0	0	0
7/7/2024 1:02	64204	KINZ_T1	1	2	1	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
7/7/2024 1:02	64203	KINZ_T1	0	0	0	0	0	0	0.02	-0.01	1	1	0	600	600	0
7/7/2024 1:02	64202	KINZ_T1	3	3	0	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
7/7/2024 1:05	67605	WARW_T1	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
7/7/2024 1:06	67605	WARW_T1	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
7/7/2024 1:19	53903	HALI_T2	2	2	0	0.6	1.05	0.45	0	0	0	0	0	0	0	0
7/7/2024 1:19	53902	HALI_T2	1	1	0	5.1	5.4	0.3	-0.83	-0.83	0	0	0	0	0	0
7/7/2024 1:24	64203	KINZ_T1	0	1	1	0	0.1	0.1	0.02	0	1	1	0	600	600	0
7/7/2024 1:24	64204	KINZ_T1	1	3	2	1.2	0.53	-0.67	0	0	0	0	0	0	0	0
7/7/2024 1:24	64202	KINZ_T1	1	3	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0
7/7/2024 1:24	64201	KINZ_T1	1	5	4	1.2	0.44	-0.76	0	0	0	0	0	0	0	0
7/7/2024 1:25	64204	KINZ_T1	1	3	2	1.2	0.53	-0.67	0	0	0	0	0	0	0	0
7/7/2024 1:25	64203	KINZ_T1	0	1	1	0	0.1	0.1	0.02	0	1	1	0	600	600	0
7/7/2024 1:25	64201	KINZ_T1	1	5	4	1.2	0.44	-0.76	0	0	0	0	0	0	0	0
7/7/2024 1:25	64202	KINZ_T1	1	3	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0
7/7/2024 1:34	64904	MILL_T1	0	0	0	0	0	0	-0.96	-0.97	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/7/2024 1:46	64201	KINZ_T1	5	5	0	0.42	0.42	0	0	0	0	0	0	0	0	0
7/7/2024 1:46	64203	KINZ_T1	1	1	0	0.1	0.1	0	0	0	1	1	0	600	600	0
7/7/2024 1:46	64202	KINZ_T1	2	3	1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
7/7/2024 1:46	64204	KINZ_T1	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
7/7/2024 1:47	64204	KINZ_T1	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
7/7/2024 1:47	64203	KINZ_T1	1	1	0	0.1	0.1	0	0	0	1	1	0	600	600	0
7/7/2024 1:47	64202	KINZ_T1	2	3	1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
7/7/2024 1:47	64201	KINZ_T1	5	5	0	0.42	0.42	0	0	0	0	0	0	0	0	0
7/7/2024 2:08	64201	KINZ_T1	1	5	4	1.4	0.44	-0.96	0	0	0	0	0	0	0	0
7/7/2024 2:08	64204	KINZ_T1	1	2	1	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
7/7/2024 2:08	64203	KINZ_T1	0	1	1	0	0.1	0.1	0.06	0.61	1	0	-1	600	0	-600
7/7/2024 2:08	64202	KINZ_T1	2	3	1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
7/7/2024 2:09	64201	KINZ_T1	1	5	4	1.4	0.44	-0.96	0	0	0	0	0	0	0	0
7/7/2024 2:09	64204	KINZ_T1	1	2	1	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
7/7/2024 2:09	64203	KINZ_T1	0	1	1	0	0.1	0.1	0.06	0.61	1	0	-1	600	0	-600
7/7/2024 2:09	64202	KINZ_T1	2	3	1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
7/7/2024 2:31	64204	KINZ_T1	1	8	7	0.8	0.25	-0.55	0	0	0	0	0	0	0	0
7/7/2024 2:31	64202	KINZ_T1	3	3	0	0.4	0.57	0.17	0	0	0	0	0	0	0	0
7/7/2024 2:31	64203	KINZ_T1	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
7/7/2024 2:31	64201	KINZ_T1	1	11	10	1.5	0.3	-1.2	0	0	0	0	0	0	0	0
7/7/2024 2:32	64204	KINZ_T1	1	8	7	0.8	0.25	-0.55	0	0	0	0	0	0	0	0
7/7/2024 2:32	64202	KINZ_T1	3	3	0	0.4	0.57	0.17	0	0	0	0	0	0	0	0
7/7/2024 2:32	64203	KINZ_T1	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
7/7/2024 2:32	64201	KINZ_T1	1	11	10	1.5	0.3	-1.2	0	0	0	0	0	0	0	0
7/7/2024 2:53	64202	KINZ_T1	3	2	-1	0.57	0.35	-0.22	0	0	0	0	0	0	0	0
7/7/2024 2:53	64204	KINZ_T1	3	8	5	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
7/7/2024 2:53	64201	KINZ_T1	6	9	3	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
7/7/2024 2:53	64203	KINZ_T1	0	0	0	0	0	0	0.59	0.54	0	0	0	0	0	0
7/7/2024 2:54	64204	KINZ_T1	3	8	5	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
7/7/2024 2:54	64202	KINZ_T1	3	2	-1	0.57	0.35	-0.22	0	0	0	0	0	0	0	0
7/7/2024 2:54	64203	KINZ_T1	0	0	0	0	0	0	0.59	0.54	0	0	0	0	0	0
7/7/2024 2:54	64201	KINZ_T1	6	9	3	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
7/7/2024 3:08	65901	SAKR_T2	1	1	0	7.7	8.3	0.6	-0.71	-0.68	1	1	0	900	900	0
7/7/2024 3:16	64201	KINZ_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
7/7/2024 3:16	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 3:16	64204	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/7/2024 3:16	64203	KINZ_T1	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
7/7/2024 3:17	64201	KINZ_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
7/7/2024 3:17	64204	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/7/2024 3:17	64203	KINZ_T1	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
7/7/2024 3:17	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 3:38	64203	KINZ_T1	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
7/7/2024 3:38	64204	KINZ_T1	1	4	3	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
7/7/2024 3:38	64202	KINZ_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/7/2024 3:38	64201	KINZ_T1	1	4	3	1	0.43	-0.57	0	0	0	0	0	0	0	0
7/7/2024 3:39	64202	KINZ_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/7/2024 3:39	64201	KINZ_T1	1	4	3	1	0.43	-0.57	0	0	0	0	0	0	0	0
7/7/2024 3:39	64204	KINZ_T1	1	4	3	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
7/7/2024 3:39	64203	KINZ_T1	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
7/7/2024 5:08	22701	MINO_T1	0	0	0	0	0	0	-0.67	-0.76	1	1	0	600	600	0
7/7/2024 6:19	52503	PROG_T2	0	0	0	0	0	0	-0.54	-0.54	1	1	0	900	900	0
7/7/2024 6:27	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
7/7/2024 6:32	22701	MINO_T1	0	0	0	0	0	0	-0.72	-0.67	1	1	0	600	600	0
7/7/2024 6:36	52501	PROG_T1	0	0	0	0	0	0	0.31	0.31	1	1	0	300	300	0
7/7/2024 6:44	61302	EARL_T1	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
7/7/2024 6:44	61304	EARL_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
7/7/2024 6:48	48302	ORWI_T2	2	2	0	0.95	1	0.05	-0.55	-0.53	0	0	0	0	0	0
7/7/2024 6:50	58401	MORO_T1	1	1	0	0.2	0.1	-0.1	-0.8	-0.75	1	1	0	600	600	0
7/7/2024 6:50	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 6:54	43402	BENT_T1	0	0	0	0	0	0	-0.85	-0.85	1	1	0	900	900	0
7/7/2024 6:55	56803	BENV_T1	4	1	-3	0.2	0.3	0.1	-0.96	-0.95	1	1	0	600	600	0
7/7/2024 6:55	56801	BENV_T1	12	7	-5	0.58	0.59	0.01	0	0	0	0	0	0	0	0
7/7/2024 6:57	63804	HEMP_T1	1	1	0	5.7	5.8	0.1	0.12	0.13	0	0	0	0	0	0
7/7/2024 6:57	43402	BENT_T1	0	0	0	0	0	0	-0.85	-0.85	1	1	0	900	900	0
7/7/2024 6:58	62102	ELAN_T1	0	0	0	0	0	0	0.95	0.95	0	0	0	0	0	0
7/7/2024 7:00	64204	KINZ_T1	3	4	1	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
7/7/2024 7:00	64201	KINZ_T1	4	4	0	0.33	0.35	0.02	0	0	0	0	0	0	0	0
7/7/2024 7:00	64203	KINZ_T1	0	0	0	0	0	0	0.5	0.45	0	0	0	0	0	0
7/7/2024 7:00	64202	KINZ_T1	3	2	-1	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
7/7/2024 7:01	64202	KINZ_T1	3	2	-1	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
7/7/2024 7:01	64201	KINZ_T1	4	4	0	0.33	0.35	0.02	0	0	0	0	0	0	0	0
7/7/2024 7:01	64204	KINZ_T1	3	4	1	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
7/7/2024 7:01	64203	KINZ_T1	0	0	0	0	0	0	0.5	0.45	0	0	0	0	0	0
7/7/2024 7:02	64204	KINZ_T1	3	4	1	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
7/7/2024 7:02	64203	KINZ_T1	0	0	0	0	0	0	0.5	0.45	0	0	0	0	0	0
7/7/2024 7:02	64202	KINZ_T1	3	2	-1	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
7/7/2024 7:02	64201	KINZ_T1	4	4	0	0.33	0.35	0.02	0	0	0	0	0	0	0	0
7/7/2024 7:02	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0.12	0.13	0	0	0	0	0	0
7/7/2024 7:04	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 7:05	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 7:07	44903	SCOT_T1	0	0	0	0	0	0	0.5	0.53	0	0	0	0	0	0
7/7/2024 7:15	12006	HATF_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
7/7/2024 7:16	14601	SWHI_T1	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
7/7/2024 7:17	58401	MORO_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
7/7/2024 7:17	46101	MACI_T2	0	0	0	0	0	0	-0.53	-0.5	1	1	0	1200	1200	0
7/7/2024 7:17	58402	MORO_T1	1	3	2	1.3	2	0.7	-0.11	-0.03	2	2	0	1500	1500	0
7/7/2024 7:20	64201	KINZ_T1	4	1	-3	0.35	0.9	0.55	0	0	0	0	0	0	0	0
7/7/2024 7:20	64204	KINZ_T1	4	2	-2	0.33	0.35	0.02	0	0	0	0	0	0	0	0
7/7/2024 7:20	64203	KINZ_T1	0	0	0	0	0	0	0.45	0.55	0	0	0	0	0	0
7/7/2024 7:20	64202	KINZ_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 7:21	64204	KINZ_T1	4	2	-2	0.33	0.35	0.02	0	0	0	0	0	0	0	0
7/7/2024 7:21	64201	KINZ_T1	4	1	-3	0.35	0.9	0.55	0	0	0	0	0	0	0	0
7/7/2024 7:21	64202	KINZ_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 7:21	64203	KINZ_T1	0	0	0	0	0	0	0.45	0.55	0	0	0	0	0	0
7/7/2024 7:23	60802	BUCK_T2	23	12	-11	0.13	0.13	0	0.24	0.26	0	0	0	0	0	0
7/7/2024 7:24	22001	BOHE_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 7:24	22003	BOHE_T1	232	195	-37	0.37	0.27	-0.1	0	0	0	0	0	0	0	0
7/7/2024 7:24	22002	BOHE_T1	0	0	0	0	0	0	0.46	0.52	0	0	0	0	0	0
7/7/2024 7:25	24902	WHHA_T1	1	1	0	0.7	0.5	-0.2	0.8	0	0	0	0	0	0	0
7/7/2024 7:30	64203	KINZ_T1	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
7/7/2024 7:30	64201	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/7/2024 7:30	64204	KINZ_T1	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
7/7/2024 7:31	13503	MCMI_T2	0	3	3	0	0.17	0.17	-0.81	-0.8	0	0	0	0	0	0
7/7/2024 7:31	64203	KINZ_T1	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
7/7/2024 7:31	64204	KINZ_T1	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
7/7/2024 7:31	64201	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/7/2024 7:34	56501	ROCK_T2	1	1	0	2.1	0	-2.1	-1.68	-1.64	0	0	0	0	0	0
7/7/2024 7:35	56501	ROCK_T2	1	1	0	2.1	0	-2.1	-3.36	-3.28	0	0	0	0	0	0
7/7/2024 7:36	56501	ROCK_T2	1	1	0	2.1	0	-2.1	-1.68	-1.64	0	0	0	0	0	0
7/7/2024 7:38	52503	PROG_T2	0	0	0	0	0	0	-0.64	-0.77	2	0	-2	1800	0	-1800
7/7/2024 7:39	22002	BOHE_T1	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
7/7/2024 7:39	22003	BOHE_T1	194	116	-78	0.26	0.19	-0.07	0	0	0	0	0	0	0	0
7/7/2024 7:40	64201	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/7/2024 7:40	64204	KINZ_T1	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
7/7/2024 7:40	64203	KINZ_T1	0	0	0	0	0	0	0.52	0.57	0	0	0	0	0	0
7/7/2024 7:41	64201	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/7/2024 7:41	64204	KINZ_T1	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
7/7/2024 7:41	43402	BENT_T1	0	0	0	0	0	0	-0.82	0	1	0	-1	900	0	-900
7/7/2024 7:41	64203	KINZ_T1	0	0	0	0	0	0	0.52	0.57	0	0	0	0	0	0
7/7/2024 7:57	60201	ATGL_T2	50	15	-35	0.23	0.13	-0.1	0.57	0.52	0	0	0	0	0	0
7/7/2024 7:57	46801	HEPB_T2	0	0	0	0	0	0	0.8	0.84	0	0	0	0	0	0
7/7/2024 7:58	14401	SSLA_T1	0	0	0	0	0	0	-1.33	-1.29	0	0	0	0	0	0
7/7/2024 7:58	63305	GREE_T1	0	0	0	0	0	0	-1.98	-1.92	0	0	0	0	0	0
7/7/2024 7:58	40504	CRES_T1	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
7/7/2024 7:58	52403	GRPA_T2	6	7	1	0.52	0.55	0.03	0	0	0	0	0	0	0	0
7/7/2024 7:58	52404	GRPA_T2	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
7/7/2024 7:58	52402	GRPA_T2	2	4	2	0.65	0.3	-0.35	0	0	0	0	0	0	0	0
7/7/2024 7:58	14404	SSLA_T1	2	2	0	1.95	1.7	-0.25	0	0	0	0	0	0	0	0
7/7/2024 7:58	40505	CRES_T1	3	4	1	4	3.08	-0.92	0	0	0	0	0	0	0	0
7/7/2024 8:00	21203	ECAR_T1	0	0	0	0	0	0	0.64	0.7	0	0	0	0	0	0
7/7/2024 8:01	63305	GREE_T1	0	0	0	0	0	0	-1.98	-1.92	0	0	0	0	0	0
7/7/2024 8:01	43402	BENT_T1	0	0	0	0	0	0	0	-0.79	0	0	0	0	0	0
7/7/2024 8:01	64902	MILL_T2	0	0	0	0	0	0	-1.65	-1.58	0	0	0	0	0	0
7/7/2024 8:01	40101	HUNT_T2	0	1	1	0	0	0	-0.55	-0.5	0	0	0	0	0	0
7/7/2024 8:03	60801	BUCK_T1	40	15	-25	0.29	0.14	-0.15	-0.05	-0.04	0	0	0	0	0	0
7/7/2024 8:03	60803	BUCK_T1	17	14	-3	0.54	0.29	-0.25	0	0	0	0	0	0	0	0
7/7/2024 8:03	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 8:03	43202	MVIL_T2	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
7/7/2024 8:03	52404	GRPA_T2	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
7/7/2024 8:03	52402	GRPA_T2	2	3	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/7/2024 8:03	52403	GRPA_T2	3	12	9	0.6	0.82	0.22	0	0	0	0	0	0	0	0
7/7/2024 8:08	65603	QVIL_T2	0	0	0	0	0	0	0.84	0.88	0	0	0	0	0	0
7/7/2024 8:18	64203	KINZ_T1	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
7/7/2024 8:18	64204	KINZ_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/7/2024 8:18	64201	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
7/7/2024 8:21	55405	SHER_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
7/7/2024 8:22	67901	WNHO_T2	53	34	-19	0.27	0.27	0	-0.22	-0.2	0	0	0	0	0	0
7/7/2024 8:23	24902	WHHA_T1	3	24	21	0.6	0.71	0.11	0.87	0.9	0	0	0	0	0	0
7/7/2024 8:24	29402	BELT_T1	0	105	105	0	1.11	1.11	0	0	0	0	0	0	0	0
7/7/2024 8:25	29402	BELT_T1	0	105	105	0	1.11	1.11	0	0	0	0	0	0	0	0
7/7/2024 8:28	46801	HEPB_T2	0	0	0	0	0	0	0.87	0.91	0	0	0	0	0	0
7/7/2024 8:37	64201	POIN_T1	5	0	-5	0.18	0	-0.18	-2.13	-2.09	0	1	1	0	1200	1200
7/7/2024 8:39	67605	WARW_T1	0	0	0	0	0	0	-1.1	-1.11	0	0	0	0	0	0
7/7/2024 8:40	56801	BENV_T1	4	3	-1	1.28	1.1	-0.18	-0.48	-0.48	0	1	1	0	600	600
7/7/2024 8:40	46206	DANV_T2	30	48	18	0.43	0.51	0.08	0.56	0.66	0	2	2	0	2100	2100
7/7/2024 8:42	22002	BOHE_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
7/7/2024 8:42	22003	BOHE_T1	3	3	0	0.37	0.73	0.36	0	0	0	0	0	0	0	0
7/7/2024 8:43	63401	HONY_T1	0	0	0	0	0	0	-0.04	-0.02	0	1	1	0	600	600
7/7/2024 8:43	52403	GRPA_T2	11	28	17	0.64	0.84	0.2	-0.41	-0.42	0	0	0	0	0	0
7/7/2024 8:43	52402	GRPA_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/7/2024 8:43	52401	GRPA_T2	1	7	6	0.2	0.53	0.33	0	0	0	0	0	0	0	0
7/7/2024 8:44	46206	DANV_T2	30	48	18	0.43	0.51	0.08	0.56	0.66	0	2	2	0	2100	2100
7/7/2024 8:44	63401	HONY_T1	0	0	0	0	0	0	-0.04	-0.02	0	1	1	0	600	600

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/7/2024 8:46	13503	MCMI_T2	1	1	0	0.1	0.3	0.2	-0.72	-0.67	0	0	0	0	0	0
7/7/2024 8:48	63401	HONY_T1	0	0	0	0	0	0	-0.04	-0.02	0	1	1	0	600	600
7/7/2024 8:49	60502	NMAN_T2	0	0	0	0	0	0	0.18	0.23	0	0	0	0	0	0
7/7/2024 8:49	60504	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 8:49	60501	NMAN_T2	4	5	1	2.68	4.27	1.59	0	0	0	0	0	0	0	0
7/7/2024 8:54	67605	WARW_T1	0	0	0	0	0	0	-1.11	-0.96	0	0	0	0	0	0
7/7/2024 8:54	20402	ASHF_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 8:54	20401	ASHF_T2	2	4	2	1.05	0.73	-0.32	0	0	0	0	0	0	0	0
7/7/2024 8:54	20403	ASHF_T2	0	0	0	0	0	0	0.75	0.8	0	0	0	0	0	0
7/7/2024 8:55	20401	ASHF_T2	2	4	2	1.05	0.73	-0.32	0	0	0	0	0	0	0	0
7/7/2024 8:55	20402	ASHF_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 8:55	20403	ASHF_T2	0	0	0	0	0	0	0.75	0.8	0	0	0	0	0	0
7/7/2024 9:00	47001	HUGH_T2	3	3	0	7.23	6.67	-0.56	-1.34	-1.29	1	1	0	900	900	0
7/7/2024 9:03	47001	HUGH_T2	3	3	0	7.23	6.67	-0.56	-1.34	-1.29	1	1	0	900	900	0
7/7/2024 9:05	47401	PENS_T1	3	6	3	0.4	0.33	-0.07	0.07	0.1	0	0	0	0	0	0
7/7/2024 9:06	41902	REED_T1	3	7	4	0.7	0.5	-0.2	1.06	1.07	0	0	0	0	0	0
7/7/2024 9:07	47401	PENS_T1	3	6	3	0.4	0.33	-0.07	0.2	0.29	0	0	0	0	0	0
7/7/2024 9:08	41902	REED_T1	3	7	4	0.7	0.5	-0.2	1.07	0.82	0	0	0	0	0	0
7/7/2024 9:09	67605	WARW_T1	0	0	0	0	0	0	-0.96	-1.03	0	0	0	0	0	0
7/7/2024 9:10	46206	DANV_T2	26	32	6	0.53	0.67	0.14	0.61	0.61	2	2	0	2100	2100	0
7/7/2024 9:10	46204	DANV_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 9:10	60201	ATGL_T2	0	0	0	0	0	0	0.65	0.71	0	0	0	0	0	0
7/7/2024 9:11	20403	ASHF_T2	0	0	0	0	0	0	0.8	0.84	0	0	0	0	0	0
7/7/2024 9:11	20402	ASHF_T2	7	0	-7	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/7/2024 9:11	67605	WARW_T1	0	0	0	0	0	0	-0.96	-1.03	0	0	0	0	0	0
7/7/2024 9:11	20401	ASHF_T2	4	4	0	0.73	0.75	0.02	0	0	0	0	0	0	0	0
7/7/2024 9:12	20402	ASHF_T2	7	0	-7	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/7/2024 9:12	20401	ASHF_T2	4	4	0	0.73	0.75	0.02	0	0	0	0	0	0	0	0
7/7/2024 9:12	20403	ASHF_T2	0	0	0	0	0	0	0.8	0.84	0	0	0	0	0	0
7/7/2024 9:19	44203	POIN_T2	6	8	2	1.87	1.56	-0.31	0.28	0.34	1	1	0	900	900	0
7/7/2024 9:19	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 9:22	67002	STHI_T2	0	0	0	0	0	0	0.57	0.53	1	1	0	600	600	0
7/7/2024 9:27	11507	FREE_T2	0	1	1	0	0	0	0.76	0.33	0	0	0	0	0	0
7/7/2024 9:37	43304	WATS_T2	0	6	6	0	0	0	-0.12	-0.11	1	1	0	600	600	0
7/7/2024 9:40	43304	WATS_T2	0	6	6	0	0	0	-0.12	-0.11	1	1	0	600	600	0
7/7/2024 9:44	22905	HARW_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 9:44	22901	HARW_T1	10	17	7	0.41	0.28	-0.13	-0.44	-0.34	1	1	0	1200	1200	0
7/7/2024 9:44	22903	HARW_T1	1	5	4	0.4	0.4	0	0	0	0	0	0	0	0	0
7/7/2024 9:47	47101	MARL_T1	26	41	15	0.43	0.55	0.12	-0.33	-0.29	0	0	0	0	0	0
7/7/2024 9:47	47104	MARL_T1	0	14	14	0	0.34	0.34	0	0	0	0	0	0	0	0
7/7/2024 9:48	47104	MARL_T1	0	14	14	0	0.34	0.34	0	0	0	0	0	0	0	0
7/7/2024 9:48	47101	MARL_T1	26	41	15	0.43	0.55	0.12	-0.33	-0.29	0	0	0	0	0	0
7/7/2024 9:49	47101	MARL_T1	26	41	15	0.43	0.55	0.12	-0.33	-0.29	0	0	0	0	0	0
7/7/2024 9:49	47401	PENS_T1	6	6	0	1	0.95	-0.05	0.17	0.29	0	0	0	0	0	0
7/7/2024 9:49	47104	MARL_T1	0	14	14	0	0.34	0.34	0	0	0	0	0	0	0	0
7/7/2024 9:50	47101	MARL_T1	26	41	15	0.43	0.55	0.12	-0.33	-0.29	0	0	0	0	0	0
7/7/2024 9:50	47104	MARL_T1	0	14	14	0	0.34	0.34	0	0	0	0	0	0	0	0
7/7/2024 9:50	22701	MINO_T1	0	0	0	0	0	0	-0.59	-0.56	1	1	0	600	600	0
7/7/2024 9:52	67602	WARW_T2	0	0	0	0	0	0	0.19	0.1	2	2	0	1500	1500	0
7/7/2024 9:53	65802	RTWN_T2	0	0	0	0	0	0	0.45	0.4	0	0	0	0	0	0
7/7/2024 9:53	67602	WARW_T2	0	0	0	0	0	0	0.19	0.1	2	2	0	1500	1500	0
7/7/2024 9:54	45602	WOOL_T1	26	40	14	0.42	0.51	0.09	0.9	0.98	0	0	0	0	0	0
7/7/2024 9:57	45602	WOOL_T1	26	40	14	0.42	0.51	0.09	0.45	0.49	0	0	0	0	0	0
7/7/2024 10:00	13503	MCMI_T2	1	1	0	0.7	0.5	-0.2	-1.17	-1.11	0	0	0	0	0	0
7/7/2024 10:00	65601	QVIL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
7/7/2024 10:00	52404	GRPA_T2	0	0	0	0	0	0	-0.53	-0.49	0	0	0	0	0	0
7/7/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	0.41	0.64	0	0	0	0	0	0
7/7/2024 10:00	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 10:00	41901	REED_T1	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
7/7/2024 10:00	52403	GRPA_T2	17	55	38	0.55	0.51	-0.04	0	0	0	0	0	0	0	0
7/7/2024 10:00	54506	ENOL_T2	0	1	1	0	0	0	0.84	0.86	1	1	0	600	600	0
7/7/2024 10:00	54701	NEBL_T1	1	2	1	0.2	0.25	0.05	0	0	1	1	0	600	600	0
7/7/2024 10:00	41902	REED_T1	1	12	11	0.1	0.4	0.3	0.66	0.84	0	0	0	0	0	0
7/7/2024 10:00	67503	WEWI_T2	0	1	1	0	0	0	-0.27	-0.28	0	0	0	0	0	0
7/7/2024 10:00	52402	GRPA_T2	8	22	14	1.01	0.9	-0.11	0	0	0	0	0	0	0	0
7/7/2024 10:00	65603	QVIL_T2	0	0	0	0	0	0	0.89	1.02	0	0	0	0	0	0
7/7/2024 10:00	52401	GRPA_T2	0	4	4	0	0.5	0.5	0	0	0	0	0	0	0	0
7/7/2024 10:00	46803	HEPB_T2	1	1	0	0.5	0.4	-0.1	0.65	0.7	0	0	0	0	0	0
7/7/2024 10:00	60501	NMAN_T2	3	4	1	4.1	4.53	0.43	0	0	0	0	0	0	0	0
7/7/2024 10:00	28102	TWLA_T2	0	1	1	0	0	0	0.33	0.34	0	0	0	0	0	0
7/7/2024 10:00	40505	CRES_T1	3	3	0	2.67	2.5	-0.17	0.81	0.83	0	0	0	0	0	0
7/7/2024 10:00	55405	SHER_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
7/7/2024 10:00	46801	HEPB_T2	3	2	-1	0.6	1.2	0.6	0.1	0.14	0	0	0	0	0	0
7/7/2024 10:41	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 10:41	29402	BELT_T1	71	62	-9	0.75	0.77	0.02	0	0	0	0	0	0	0	0
7/7/2024 10:42	13503	MCMI_T2	1	4	3	0.4	0.48	0.08	-0.51	-0.52	0	0	0	0	0	0
7/7/2024 10:42	46204	DANV_T2	19	75	56	0.25	0.36	0.11	0	0	0	0	0	0	0	0
7/7/2024 10:42	46206	DANV_T2	50	71	21	0.61	0.87	0.26	1.45	1.6	2	2	0	2100	2100	0
7/7/2024 10:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 10:42	40502	CRES_T2	0	4	4	0	0.13	0.13	-0.23	-0.16	0	0	0	0	0	0
7/7/2024 10:43	46206	DANV_T2	50	71	21	0.61	0.87	0.26	0	0	0	0	0	0	0	0
7/7/2024 10:43	46204	DANV_T2	19	75	56	0.25	0.36	0.11	0	0	0	0	0	0	0	0
7/7/2024 10:43	46203	DANV_T2	0	0	0	0	0	0	-1.4	-1.36	0	0	0	0	0	0
7/7/2024 10:44	29402	BELT_T1	71	62	-9	0.75	0.77	0.02	0	0	0	0	0	0	0	0
7/7/2024 10:44	63401	HONY_T1	0	0	0	0	0	0	-0.03	-0.11	1	1	0	600	600	0
7/7/2024 10:44	46801	HEPB_T2	2	2	0	1.2	0.95	-0.25	0.19	0.19	0	0	0	0	0	0
7/7/2024 10:44	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 10:45	22903	HARW_T1	11	22	11	0.84	1.11	0.27	0	0	0	0	0	0	0	0
7/7/2024 10:45	52403	GRPA_T2	17	38	21	0.71	0.59	-0.12	-0.44	-0.43	0	0	0	0	0	0
7/7/2024 10:45	46801	HEPB_T2	2	2	0	0.95	0.9	-0.05	0.19	0.19	0	0	0	0	0	0
7/7/2024 10:45	52002	LING_T2	23	6	-17	0.3	0.1	-0.2	-0.07	0.03	0	0	0	0	0	0
7/7/2024 10:45	22905	HARW_T1	12	20	8	0.53	0.72	0.19	0	0	0	0	0	0	0	0
7/7/2024 10:45	22901	HARW_T1	34	52	18	0.78	0.77	-0.01	-0.4	-0.24	1	1	0	1200	1200	0
7/7/2024 10:45	63401	HONY_T1	0	0	0	0	0	0	-0.03	-0.11	1	1	0	600	600	0
7/7/2024 10:45	52401	GRPA_T2	2	9	7	0.15	1.23	1.08	0	0	0	0	0	0	0	0
7/7/2024 10:45	52402	GRPA_T2	10	88	78	1.33	0.74	-0.59	0	0	0	0	0	0	0	0
7/7/2024 10:46	52002	LING_T2	23	6	-17	0.3	0.1	-0.2	-0.07	0.03	0	0	0	0	0	0
7/7/2024 10:46	64203	KINZ_T1	0	0	0	0	0	0	-0.48	-0.54	2	2	0	900	900	0
7/7/2024 10:46	64204	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/7/2024 10:46	63501	HEID_TBK1-2	0	0	0	0	0	0	0.37	0.43	1	1	0	900	900	0
7/7/2024 10:46	64202	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 10:47	64204	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/7/2024 10:47	64202	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 10:47	52403	GRPA_T2	17	38	21	0.71	0.59	-0.12	0	0	0	0	0	0	0	0
7/7/2024 10:47	52404	GRPA_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
7/7/2024 10:47	64203	KINZ_T1	0	0	0	0	0	0	-0.48	-0.54	2	2	0	900	900	0
7/7/2024 10:47	52402	GRPA_T2	10	88	78	1.33	0.74	-0.59	0	0	0	0	0	0	0	0
7/7/2024 10:47	52401	GRPA_T2	2	9	7	0.15	1.23	1.08	0	0	0	0	0	0	0	0
7/7/2024 10:48	63401	HONY_T1	0	0	0	0	0	0	-0.03	-0.11	1	1	0	600	600	0
7/7/2024 10:48	52002	LING_T2	23	6	-17	0.3	0.1	-0.2	-0.07	0.03	0	0	0	0	0	0
7/7/2024 10:49	65501	MOJO_T1	0	0	0	0	0	0	-0.85	-0.83	1	1	0	900	900	0
7/7/2024 10:49	52002	LING_T2	23	6	-17	0.3	0.1	-0.2	-0.13	0.05	0	0	0	0	0	0
7/7/2024 10:50	44203	POIN_T2	10	14	4	2.52	2.28	-0.24	0.59	0.61	1	1	0	900	900	0
7/7/2024 10:51	64204	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/7/2024 10:51	64203	KINZ_T1	0	0	0	0	0	0	-0.54	-0.5	2	2	0	900	900	0
7/7/2024 10:51	25501	MADI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/7/2024 10:51	64202	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 10:51	25503	MADI_T1	0	1	1	0	0	0	-0.49	-0.43	0	0	0	0	0	0
7/7/2024 10:51	67602	WARW_T2	0	0	0	0	0	0	0.09	0.13	2	2	0	1500	1500	0
7/7/2024 10:52	17001	RIRO_T1	0	0	0	0	0	0	-0.28	-0.28	1	1	0	600	600	0
7/7/2024 10:52	43304	WATS_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
7/7/2024 10:52	43301	WATS_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/7/2024 10:52	42201	SHEN_T2	0	0	0	0	0	0	0.82	0.86	2	2	0	1200	1200	0
7/7/2024 10:53	16302	ALPA_T2	0	2	2	0	0.1	0.1	-0.12	-0.09	0	0	0	0	0	0
7/7/2024 10:54	67804	WLAN_T1	10	10	0	1.13	1.22	0.09	0	0	0	0	0	0	0	0
7/7/2024 10:54	20403	ASHF_T2	0	7	7	0	0	0	-0.16	-0.06	0	0	0	0	0	0
7/7/2024 10:54	20401	ASHF_T2	19	44	25	0.75	0.52	-0.23	0	0	0	0	0	0	0	0
7/7/2024 10:54	67803	WLAN_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
7/7/2024 10:54	16302	ALPA_T2	0	2	2	0	0.1	0.1	-0.12	-0.09	0	0	0	0	0	0
7/7/2024 10:54	20402	ASHF_T2	20	55	35	0.77	1.31	0.54	0	0	0	0	0	0	0	0
7/7/2024 10:54	42701	AUGU_T1	43	55	12	0.66	0.94	0.28	0	0	4	4	0	3600	3600	0
7/7/2024 10:54	67801	WLAN_T1	24	34	10	0.23	0.15	-0.08	-0.88	-0.84	0	0	0	0	0	0
7/7/2024 10:55	20403	ASHF_T2	0	7	7	0	0	0	-0.16	-0.06	0	0	0	0	0	0
7/7/2024 10:55	61102	BERK_T5	0	0	0	0	0	0	1.56	1.91	2	2	0	600	600	0
7/7/2024 10:55	42701	AUGU_T1	43	55	12	0.66	0.94	0.28	0	0	2	2	0	1800	1800	0
7/7/2024 10:55	67603	WARW_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
7/7/2024 10:55	67605	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/7/2024 10:55	20401	ASHF_T2	19	44	25	0.75	0.52	-0.23	0	0	0	0	0	0	0	0
7/7/2024 10:55	16302	ALPA_T2	0	2	2	0	0.1	0.1	-0.24	-0.18	0	0	0	0	0	0
7/7/2024 10:55	20402	ASHF_T2	20	55	35	0.77	1.31	0.54	0	0	0	0	0	0	0	0
7/7/2024 10:55	67602	WARW_T2	0	0	0	0	0	0	0.09	0.13	2	2	0	1500	1500	0
7/7/2024 10:56	20403	ASHF_T2	0	7	7	0	0	0	-0.16	-0.06	0	0	0	0	0	0
7/7/2024 10:56	20402	ASHF_T2	20	55	35	0.77	1.31	0.54	0	0	0	0	0	0	0	0
7/7/2024 10:56	56801	BENV_T1	0	3	3	0	0	0	-0.25	-0.26	2	2	0	1200	1200	0
7/7/2024 10:56	56803	BENV_T1	1	4	3	0.8	0.33	-0.47	0	0	0	0	0	0	0	0
7/7/2024 10:56	42701	AUGU_T1	43	55	12	0.66	0.94	0.28	0	0	2	2	0	1800	1800	0
7/7/2024 10:56	20401	ASHF_T2	19	44	25	0.75	0.52	-0.23	0	0	0	0	0	0	0	0
7/7/2024 10:57	42701	AUGU_T1	43	55	12	0.66	0.94	0.28	0	0	4	4	0	3600	3600	0
7/7/2024 10:57	56803	BENV_T1	1	4	3	0.8	0.33	-0.47	0	0	0	0	0	0	0	0
7/7/2024 10:57	20401	ASHF_T2	19	44	25	0.75	0.52	-0.23	0	0	0	0	0	0	0	0
7/7/2024 10:57	20402	ASHF_T2	20	55	35	0.77	1.31	0.54	0	0	0	0	0	0	0	0
7/7/2024 10:57	56801	BENV_T1	0	3	3	0	0	0	-0.25	-0.26	2	2	0	1200	1200	0
7/7/2024 10:57	20403	ASHF_T2	0	7	7	0	0	0	-0.16	-0.06	0	0	0	0	0	0
7/7/2024 10:59	24901	WHHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/7/2024 10:59	21201	ECAR_T1	2	3	1	0.55	0.85	0.3	0	0	0	0	0	0	0	0
7/7/2024 10:59	24902	WHHA_T1	10	39	29	0.44	0.53	0.09	0.4	0.44	0	0	0	0	0	0
7/7/2024 10:59	21203	ECAR_T1	1	2	1	0.3	0	-0.3	-0.14	-0.13	0	0	0	0	0	0
7/7/2024 11:00	52402	GRPA_T2	28	90	62	0.74	0.8	0.06	-0.61	-0.56	0	0	0	0	0	0
7/7/2024 11:00	52401	GRPA_T2	3	11	8	1.23	0.73	-0.5	0	0	0	0	0	0	0	0
7/7/2024 11:00	52403	GRPA_T2	29	110	81	0.68	0.6	-0.08	-0.43	-0.41	0	0	0	0	0	0
7/7/2024 11:00	52404	GRPA_T2	0	1	1	0	0	0	-0.46	-0.49	0	0	0	0	0	0
7/7/2024 11:01	52403	GRPA_T2	29	110	81	0.68	0.6	-0.08	0	0	0	0	0	0	0	0
7/7/2024 11:01	52401	GRPA_T2	3	11	8	1.23	0.73	-0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/7/2024 11:01	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 11:01	52402	GRPA_T2	28	90	62	0.74	0.8	0.06	-0.61	-0.56	0	0	0	0	0	0
7/7/2024 11:03	47401	PENS_T1	5	9	4	0.66	0.73	0.07	0.35	0.38	0	0	0	0	0	0
7/7/2024 11:03	47403	PENS_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/7/2024 11:03	12701	MACU_T1	0	1	1	0	0	0	-1.58	-1.54	2	2	0	2400	2400	0
7/7/2024 11:03	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 11:05	56501	ROCK_T2	4	3	-1	0.6	0.63	0.03	-4.65	-4.6	0	0	0	0	0	0
7/7/2024 11:05	42901	MIDD_T2	3	6	3	1.43	1.2	-0.23	0	0	0	0	0	0	0	0
7/7/2024 11:05	56504	ROCK_T2	4	6	2	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
7/7/2024 11:05	47403	PENS_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/7/2024 11:05	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 11:05	42903	MIDD_T2	0	0	0	0	0	0	0.51	0.38	0	0	0	0	0	0
7/7/2024 11:05	42902	MIDD_T2	9	17	8	0.68	0.74	0.06	0	0	0	0	0	0	0	0
7/7/2024 11:05	47401	PENS_T1	5	9	4	0.66	0.73	0.07	0.35	0.38	0	0	0	0	0	0
7/7/2024 11:06	56501	ROCK_T2	4	3	-1	0.6	0.63	0.03	-2.33	-2.3	0	0	0	0	0	0
7/7/2024 11:06	56504	ROCK_T2	4	6	2	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
7/7/2024 11:06	55408	SHER_T2	2	4	2	0.85	0.9	0.05	-0.54	-0.52	1	1	0	1200	1200	0
7/7/2024 11:07	56501	ROCK_T2	4	3	-1	0.6	0.63	0.03	-2.3	-2.21	0	0	0	0	0	0
7/7/2024 11:07	56504	ROCK_T2	4	6	2	0.53	0.43	-0.1	0.45	0.48	0	0	0	0	0	0
7/7/2024 11:07	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 11:07	67605	WARW_T1	0	1	1	0	0.6	0.6	-0.85	-0.84	0	0	0	0	0	0
7/7/2024 11:07	67201	TEHI_T1	0	2	2	0	0.25	0.25	0.72	0.79	0	0	0	0	0	0
7/7/2024 11:07	42601	TUSC_T1	9	9	0	0.96	0.23	-0.73	-1.04	-1.09	2	2	0	1800	1800	0
7/7/2024 11:07	45602	WOOL_T1	25	30	5	0.42	0.5	0.08	1.23	-0.5	0	2	2	0	1800	1800
7/7/2024 11:07	47401	PENS_T1	5	9	4	0.66	0.73	0.07	1.15	1.17	0	0	0	0	0	0
7/7/2024 11:07	14404	SSLA_T1	14	35	21	0.91	1.09	0.18	0	0	0	0	0	0	0	0
7/7/2024 11:07	14403	SSLA_T1	5	4	-1	1.04	0.2	-0.84	-0.22	-0.26	3	3	0	1800	1800	0
7/7/2024 11:07	14401	SSLA_T1	3	2	-1	0.43	0.25	-0.18	0	0	0	0	0	0	0	0
7/7/2024 11:07	47403	PENS_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/7/2024 11:08	56501	ROCK_T2	4	3	-1	0.6	0.63	0.03	-4.6	-4.42	0	0	0	0	0	0
7/7/2024 11:08	56504	ROCK_T2	4	6	2	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
7/7/2024 11:09	61102	BERK_T5	0	0	0	0	0	0	0.95	0.82	1	1	0	300	300	0
7/7/2024 11:10	25801	SUTR_T2	2	2	0	0.2	0.1	-0.1	0.4	0.43	0	0	0	0	0	0
7/7/2024 11:10	56801	BENV_T1	0	6	6	0	0.54	0.54	-0.13	-0.15	1	1	0	600	600	0
7/7/2024 11:10	56504	ROCK_T2	4	6	2	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
7/7/2024 11:10	56803	BENV_T1	4	3	-1	0.53	0.2	-0.33	0	0	0	0	0	0	0	0
7/7/2024 11:10	14101	TRUM_T2	0	0	0	0	0	0	0.96	1.07	0	0	0	0	0	0
7/7/2024 11:10	45602	WOOL_T1	25	30	5	0.42	0.5	0.08	0.61	-0.25	0	1	1	0	900	900
7/7/2024 11:10	14103	TRUM_T2	30	32	2	0.62	0.33	-0.29	0	0	0	0	0	0	0	0
7/7/2024 11:10	61102	BERK_T5	0	0	0	0	0	0	0.95	0.82	1	1	0	300	300	0
7/7/2024 11:10	56501	ROCK_T2	4	3	-1	0.6	0.63	0.03	-2.3	-2.21	0	0	0	0	0	0
7/7/2024 11:11	61102	BERK_T5	0	0	0	0	0	0	0.95	0.82	1	1	0	300	300	0
7/7/2024 11:11	22003	BOHE_T1	2	2	0	1.7	1.55	-0.15	0	0	0	0	0	0	0	0
7/7/2024 11:11	56803	BENV_T1	4	3	-1	0.53	0.2	-0.33	0	0	0	0	0	0	0	0
7/7/2024 11:11	56801	BENV_T1	0	6	6	0	0.54	0.54	-0.13	-0.15	1	1	0	600	600	0
7/7/2024 11:11	22002	BOHE_T1	0	0	0	0	0	0	0.84	0.87	0	0	0	0	0	0
7/7/2024 11:11	67605	WARW_T1	0	1	1	0	0.6	0.6	-0.85	-0.84	0	0	0	0	0	0
7/7/2024 11:12	56803	BENV_T1	4	3	-1	0.53	0.2	-0.33	0	0	0	0	0	0	0	0
7/7/2024 11:12	56801	BENV_T1	0	6	6	0	0.54	0.54	-0.13	-0.15	1	1	0	600	600	0
7/7/2024 11:16	64204	KINZ_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/7/2024 11:16	64202	KINZ_T1	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
7/7/2024 11:16	64203	KINZ_T1	0	0	0	0	0	0	-0.5	-0.44	2	2	0	900	900	0
7/7/2024 11:22	56801	BENV_T1	3	5	2	0.3	0.95	0.65	-0.15	-0.06	1	1	0	600	600	0
7/7/2024 11:22	11804	FRAN_T1	214	233	19	0.94	0.95	0.01	1.29	1.34	0	0	0	0	0	0
7/7/2024 11:22	56803	BENV_T1	3	6	3	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/7/2024 11:23	61102	BERK_T5	0	0	0	0	0	0	0.82	-0.1	1	2	1	300	1200	900
7/7/2024 11:23	56801	BENV_T1	3	5	2	0.3	0.95	0.65	-0.15	-0.06	1	1	0	600	600	0
7/7/2024 11:23	56803	BENV_T1	3	6	3	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/7/2024 11:24	61102	BERK_T5	0	0	0	0	0	0	0.82	-0.1	1	2	1	300	1200	900
7/7/2024 11:24	56803	BENV_T1	3	6	3	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/7/2024 11:24	56801	BENV_T1	3	5	2	0.3	0.95	0.65	-0.15	-0.06	1	1	0	600	600	0
7/7/2024 11:25	56803	BENV_T1	3	6	3	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/7/2024 11:25	13502	MCMI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 11:25	13501	MCMI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 11:25	56801	BENV_T1	3	5	2	0.3	0.95	0.65	-0.15	-0.06	1	1	0	600	600	0
7/7/2024 11:26	52402	GRPA_T2	88	90	2	0.85	0.68	-0.17	0	0	0	0	0	0	0	0
7/7/2024 11:26	56803	BENV_T1	3	6	3	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/7/2024 11:26	56801	BENV_T1	3	5	2	0.3	0.95	0.65	-0.15	-0.06	1	1	0	600	600	0
7/7/2024 11:26	52403	GRPA_T2	38	126	88	0.61	0.69	0.08	0	0	0	0	0	0	0	0
7/7/2024 11:26	64101	REFR_T1	13	11	-2	1	0.83	-0.17	0.67	0.69	0	0	0	0	0	0
7/7/2024 11:26	52401	GRPA_T2	9	9	0	1.14	0.51	-0.63	0	0	0	0	0	0	0	0
7/7/2024 11:26	52404	GRPA_T2	0	1	1	0	0	0	-0.47	-0.43	0	0	0	0	0	0
7/7/2024 11:26	46801	HEPB_T2	2	2	0	0.7	0.55	-0.15	0.28	0.27	0	0	0	0	0	0
7/7/2024 11:26	61102	BERK_T5	0	0	0	0	0	0	0.82	-0.1	1	2	1	300	1200	900
7/7/2024 11:27	40602	PIGR_T1	1	2	1	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
7/7/2024 11:27	56803	BENV_T1	3	6	3	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/7/2024 11:27	56801	BENV_T1	3	5	2	0.3	0.95	0.65	-0.15	-0.06	1	1	0	600	600	0
7/7/2024 11:27	46203	DANV_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 11:27	46204	DANV_T2	110	132	22	0.42	0.49	0.07	0	0	0	0	0	0	0	0
7/7/2024 11:27	64101	REFR_T1	13	11	-2	1	0.83	-0.17	0.67	0.69	0	0	0	0	0	0
7/7/2024 11:27	40603	PIGR_T1	41	46	5	0.46	0.28	-0.18	0	0	0	0	0	0	0	0
7/7/2024 11:27	61102	BERK_T5	0	0	0	0	0	0	0.82	-0.1	1	2	1	300	1200	900
7/7/2024 11:27	46206	DANV_T2	74	78	4	0.84	0.76	-0.08	1.5	1.6	2	2	0	2100	2100	0
7/7/2024 11:27	40601	PIGR_T1	0	2	2	0	0.2	0.2	0.28	0.25	0	0	0	0	0	0
7/7/2024 11:28	40505	CRES_T1	3	6	3	1.8	1.53	-0.27	0	0	0	0	0	0	0	0
7/7/2024 11:28	61102	BERK_T5	0	0	0	0	0	0	0.82	-0.1	1	2	1	300	1200	900
7/7/2024 11:28	64202	KINZ_T1	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
7/7/2024 11:28	47101	MARL_T1	39	71	32	1.05	1.03	-0.02	-1.39	-1.47	2	2	0	1200	1200	0
7/7/2024 11:28	40502	CRES_T2	3	5	2	0.33	0.18	-0.15	-0.2	-0.15	0	0	0	0	0	0
7/7/2024 11:28	40503	CRES_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 11:28	64204	KINZ_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/7/2024 11:28	64203	KINZ_T1	0	0	0	0	0	0	-0.44	-0.46	2	2	0	900	900	0
7/7/2024 11:28	40504	CRES_T1	9	13	4	0.29	0.25	-0.04	-1.29	-1.29	0	0	0	0	0	0
7/7/2024 11:28	61001	DONV_T1	1	1	0	0.5	1.4	0.9	0.58	0.64	0	0	0	0	0	0
7/7/2024 11:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 11:29	40502	CRES_T2	3	5	2	0.33	0.18	-0.15	-0.2	-0.15	0	0	0	0	0	0
7/7/2024 11:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 11:29	63804	HEMP_T1	1	1	0	7.3	7.1	-0.2	0	0	0	0	0	0	0	0
7/7/2024 11:29	63802	HEMP_T1	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
7/7/2024 11:30	40502	CRES_T2	2	23	21	0.25	0.25	0	-0.07	-0.05	0	0	0	0	0	0
7/7/2024 11:30	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 11:32	64701	LITI_T1	10	11	1	1.26	1.64	0.38	0	0	0	0	0	0	0	0
7/7/2024 11:32	64704	LITI_T1	0	0	0	0	0	0	0.34	0.32	1	1	0	600	600	0
7/7/2024 11:33	46204	DANV_T2	118	140	22	0.51	0.69	0.18	0	0	0	0	0	0	0	0
7/7/2024 11:33	64203	KINZ_T1	0	0	0	0	0	0	-0.44	-0.46	2	2	0	900	900	0
7/7/2024 11:33	22905	HARW_T1	26	17	-9	0.7	1.23	0.53	0	0	0	0	0	0	0	0
7/7/2024 11:33	22901	HARW_T1	31	44	13	0.58	0.77	0.19	-0.32	-0.32	1	1	0	1200	1200	0
7/7/2024 11:33	46203	DANV_T2	1	4	3	0.1	0	-0.1	-2.72	-2.68	0	0	0	0	0	0
7/7/2024 11:33	22903	HARW_T1	15	21	6	0.94	0.91	-0.03	0	0	0	0	0	0	0	0
7/7/2024 11:33	46206	DANV_T2	60	105	45	0.81	0.92	0.11	0	0	0	0	0	0	0	0
7/7/2024 11:33	64204	KINZ_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/7/2024 11:33	64202	KINZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/7/2024 11:38	43304	WATS_T2	5	9	4	0.56	0.48	-0.08	-0.61	-0.6	0	0	0	0	0	0
7/7/2024 11:38	67201	TEHI_T1	2	3	1	0.25	0.45	0.2	0	0	0	0	0	0	0	0
7/7/2024 11:38	67203	TEHI_T1	0	1	1	0	0.2	0.2	1.31	1.3	1	1	0	900	900	0
7/7/2024 11:38	43301	WATS_T2	4	6	2	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
7/7/2024 11:40	60101	COCA_T1	1	1	0	0.5	0.8	0.3	-0.21	-0.2	1	1	0	1200	1200	0
7/7/2024 11:40	14801	TREI_T2	246	281	35	3.23	3.46	0.23	2.03	2.04	0	0	0	0	0	0
7/7/2024 11:40	14802	TREI_T2	10	33	23	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
7/7/2024 11:41	47402	PENS_T1	2	4	2	0.55	0.98	0.43	0	0	0	0	0	0	0	0
7/7/2024 11:41	64202	KINZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/7/2024 11:41	56803	BENV_T1	2	9	7	0.2	0.65	0.45	0	0	0	0	0	0	0	0
7/7/2024 11:41	56801	BENV_T1	5	7	2	0.86	0.53	-0.33	-0.06	-0.06	1	1	0	600	600	0
7/7/2024 11:41	55101	WERT_T1	0	0	0	0	0	0	-3.53	-3.5	6	6	0	4800	4800	0
7/7/2024 11:41	64204	KINZ_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/7/2024 11:41	47403	PENS_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/7/2024 11:41	64203	KINZ_T1	0	0	0	0	0	0	-0.46	-0.47	2	2	0	900	900	0
7/7/2024 11:41	55105	WERT_T1	4	4	0	1.23	0.8	-0.43	0	0	0	0	0	0	0	0
7/7/2024 11:41	12801	MICK_T1	0	0	0	0	0	0	-1	-1.03	1	1	0	600	600	0
7/7/2024 11:41	47401	PENS_T1	9	12	3	0.82	0.54	-0.28	0.05	0.13	0	0	0	0	0	0
7/7/2024 11:41	12803	MICK_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
7/7/2024 11:42	44801	EDAN_T2	2	7	5	0.8	1.22	0.42	1	1.07	0	0	0	0	0	0
7/7/2024 11:44	12305	LANA_T2	7	8	1	1.46	0.8	-0.66	0	0	0	0	0	0	0	0
7/7/2024 11:44	55101	WERT_T1	0	0	0	0	0	0	-3.53	-3.5	6	6	0	4800	4800	0
7/7/2024 11:44	12304	LANA_T2	12	83	71	0.53	0.53	0	0	0	0	0	0	0	0	0
7/7/2024 11:44	57304	MOAL_T2	31	37	6	1.15	1.33	0.18	-0.28	-0.2	0	0	0	0	0	0
7/7/2024 11:44	12302	LANA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 11:44	55105	WERT_T1	4	4	0	1.23	0.8	-0.43	0	0	0	0	0	0	0	0
7/7/2024 11:44	57306	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 11:44	12301	LANA_T2	0	2	2	0	0	0	-0.88	-0.9	1	1	0	1200	1200	0
7/7/2024 11:44	57303	MOAL_T2	1	1	0	9.2	9.2	0	0	0	0	0	0	0	0	0
7/7/2024 11:44	57301	MOAL_T2	1	1	0	1.9	0	-1.9	0	0	0	0	0	0	0	0
7/7/2024 11:45	56801	BENV_T1	4	8	4	0.93	0.35	-0.58	0	0	0	0	0	0	0	0
7/7/2024 11:45	56803	BENV_T1	6	9	3	0.67	1	0.33	-0.51	-0.56	1	1	0	600	600	0
7/7/2024 11:46	20601	GRWO_T2	44	102	58	0.43	0.67	0.24	0.18	0.22	0	0	0	0	0	0
7/7/2024 11:46	13303	ORVI_T1	0	0	0	0	0	0	1.53	1.54	0	0	0	0	0	0
7/7/2024 11:46	40101	HUNT_T2	62	146	84	0.5	0.51	0.01	-0.2	-0.22	0	0	0	0	0	0
7/7/2024 11:47	46302	ROHR_T1	9	11	2	1	0.76	-0.24	0.46	0.45	0	0	0	0	0	0
7/7/2024 11:47	41901	REED_T1	2	2	0	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/7/2024 11:47	48301	ORWI_T1	3	2	-1	2.07	4.5	2.43	0.35	-1.4	0	2	2	0	1800	1800
7/7/2024 11:47	41902	REED_T1	60	87	27	0.64	0.57	-0.07	0.48	0.47	0	0	0	0	0	0
7/7/2024 11:48	22903	HARW_T1	21	20	-1	1.19	0.85	-0.34	0	0	0	0	0	0	0	0
7/7/2024 11:48	22901	HARW_T1	39	43	4	0.92	0.76	-0.16	0	0	0	0	0	0	0	0
7/7/2024 11:48	25503	MADI_T1	1	3	2	0.7	0	-0.7	-0.38	-0.4	0	0	0	0	0	0
7/7/2024 11:48	44801	EDAN_T2	6	6	0	1.58	0.83	-0.75	1	1.07	0	0	0	0	0	0
7/7/2024 11:48	22905	HARW_T1	9	20	11	0.8	0.23	-0.57	-0.39	-0.35	0	0	0	0	0	0
7/7/2024 11:49	65603	QVIL_T2	0	0	0	0	0	0	-0.35	-0.31	0	0	0	0	0	0
7/7/2024 11:49	65604	QVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/7/2024 11:49	65601	QVIL_T2	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/7/2024 11:49	44801	EDAN_T2	6	6	0	1.58	0.83	-0.75	1	1.07	0	0	0	0	0	0
7/7/2024 11:49	64101	REFR_T1	7	14	7	0.73	0.97	0.24	0.69	0.67	0	0	0	0	0	0
7/7/2024 11:50	66701	STRA_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/7/2024 11:50	56803	BENV_T1	6	9	3	0.67	1	0.33	-1.03	-1.11	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/7/2024 11:50	13503	MCMI_T2	2	1	-1	0.2	0.2	0	-0.46	-0.44	0	0	0	0	0	0
7/7/2024 11:50	56801	BENV_T1	4	8	4	0.93	0.35	-0.58	0	0	0	0	0	0	0	0
7/7/2024 11:50	64101	REFR_T1	7	14	7	0.73	0.97	0.24	1.38	1.34	0	0	0	0	0	0
7/7/2024 11:50	66703	STRA_T1	1	4	3	0.1	0.2	0.1	-0.53	-0.52	0	0	0	0	0	0
7/7/2024 11:50	62102	ELAN_T1	0	1	1	0	0.5	0.5	1	-0.41	0	0	0	0	0	0
7/7/2024 11:51	67901	WNHO_T2	7	4	-3	0.77	1.43	0.66	-0.05	-0.04	0	0	0	0	0	0
7/7/2024 11:51	64101	REFR_T1	7	14	7	0.73	0.97	0.24	0.67	0.72	0	0	0	0	0	0
7/7/2024 11:51	40602	PIGR_T1	2	5	3	0.4	0.5	0.1	-1	-0.98	1	1	0	600	600	0
7/7/2024 11:51	40601	PIGR_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/7/2024 11:51	16302	ALPA_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
7/7/2024 11:51	45303	WBER_T2	0	0	0	0	0	0	-1.06	-1.05	0	0	0	0	0	0
7/7/2024 11:51	45302	WBER_T2	7	20	13	0.44	0.45	0.01	0	0	0	0	0	0	0	0
7/7/2024 11:51	40603	PIGR_T1	12	40	28	0.28	0.4	0.12	0	0	0	0	0	0	0	0
7/7/2024 11:51	42201	SHEN_T2	0	0	0	0	0	0	0.46	0.48	1	1	0	600	600	0
7/7/2024 11:52	14802	TREI_T2	26	39	13	0.35	0.39	0.04	0	0	0	0	0	0	0	0
7/7/2024 11:52	64101	REFR_T1	7	14	7	0.73	0.97	0.24	2.02	2.17	0	0	0	0	0	0
7/7/2024 11:52	14801	TREI_T2	258	344	86	3.5	3.36	-0.14	0	0	0	0	0	0	0	0
7/7/2024 11:53	40602	PIGR_T1	2	5	3	0.4	0.5	0.1	-1.96	-1.87	2	2	0	1200	1200	0
7/7/2024 11:53	67904	WNHO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 11:53	14801	TREI_T2	258	344	86	3.5	3.36	-0.14	0	0	0	0	0	0	0	0
7/7/2024 11:53	40601	PIGR_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/7/2024 11:53	46302	ROHR_T1	9	11	2	1	0.76	-0.24	0	0	0	0	0	0	0	0
7/7/2024 11:53	40603	PIGR_T1	12	40	28	0.28	0.4	0.12	0	0	0	0	0	0	0	0
7/7/2024 11:53	67903	WNHO_T1	0	0	0	0	0	0	0.27	0.29	1	1	0	1200	1200	0
7/7/2024 11:53	58003	WCAR_T1	1	1	0	0.9	0.6	-0.3	0.47	0.48	1	1	0	600	600	0
7/7/2024 11:53	64101	REFR_T1	7	14	7	0.73	0.97	0.24	0.67	0.72	0	0	0	0	0	0
7/7/2024 11:53	14802	TREI_T2	26	39	13	0.35	0.39	0.04	0	0	0	0	0	0	0	0
7/7/2024 11:53	58001	WCAR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/7/2024 11:53	46301	ROHR_T1	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
7/7/2024 11:53	59101	WALK_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
7/7/2024 12:01	58003	WCAR_T1	1	1	0	0.6	0.3	-0.3	0.47	0.48	1	1	0	600	600	0
7/7/2024 12:01	58803	COCO_T1	6	1	-5	0.63	0	-0.63	-0.68	-0.76	1	1	0	600	600	0
7/7/2024 12:01	20402	ASHF_T2	70	171	101	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
7/7/2024 12:01	11507	FREE_T2	11	34	23	0.44	0.52	0.08	0.3	0.24	1	1	0	600	600	0
7/7/2024 12:01	20401	ASHF_T2	18	53	35	0.8	0.56	-0.24	0	0	0	0	0	0	0	0
7/7/2024 12:01	14801	TREI_T2	280	401	121	3.39	3.01	-0.38	2.04	2.03	0	0	0	0	0	0
7/7/2024 12:01	14802	TREI_T2	25	52	27	0.4	0.48	0.08	0	0	0	0	0	0	0	0
7/7/2024 12:01	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/7/2024 12:01	20403	ASHF_T2	3	47	44	0.33	0.62	0.29	0.02	0.03	0	0	0	0	0	0
7/7/2024 12:01	59101	WALK_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
7/7/2024 12:01	58001	WCAR_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 12:01	29402	BELT_T1	54	68	14	1.37	1.57	0.2	0	0	0	0	0	0	0	0
7/7/2024 12:01	51603	DUKE_T1	0	0	0	0	0	0	-0.91	-0.85	1	1	0	900	900	0
7/7/2024 12:03	52002	LING_T2	25	54	29	0.47	0.26	-0.21	0	0	0	0	0	0	0	0
7/7/2024 12:03	47101	MARL_T1	79	105	26	0.91	0.93	0.02	-2.18	-2.09	3	3	0	1800	1800	0
7/7/2024 12:03	65802	RTWN_T2	0	0	0	0	0	0	0.59	0.69	0	0	0	0	0	0
7/7/2024 12:03	47104	MARL_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/7/2024 12:03	52006	LING_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 12:03	64203	KINZ_T1	0	0	0	0	0	0	-0.47	-0.43	2	2	0	900	900	0
7/7/2024 12:03	55105	WERT_T1	4	5	1	0.88	0.7	-0.18	0	0	0	0	0	0	0	0
7/7/2024 12:03	64204	KINZ_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/7/2024 12:03	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 12:03	55101	WERT_T1	0	0	0	0	0	0	-1.75	-1.76	3	3	0	2400	2400	0
7/7/2024 12:03	65803	RTWN_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/7/2024 12:03	52004	LING_T2	0	2	2	0	0	0	0.22	0.24	0	0	0	0	0	0
7/7/2024 12:04	47403	PENS_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/7/2024 12:04	52002	LING_T2	25	54	29	0.47	0.26	-0.21	0.2	0.16	0	0	0	0	0	0
7/7/2024 12:04	61102	BERK_T5	0	0	0	0	0	0	-0.04	0.07	2	2	0	1200	1200	0
7/7/2024 12:04	61101	BERK_T5	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
7/7/2024 12:04	52004	LING_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 12:04	52006	LING_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 12:04	47401	PENS_T1	11	6	-5	0.54	0.9	0.36	0.13	0.31	0	0	0	0	0	0
7/7/2024 12:04	58803	COCO_T1	6	1	-5	0.63	0	-0.63	-0.68	-0.76	1	1	0	600	600	0
7/7/2024 12:04	47402	PENS_T1	4	5	1	1.18	0.4	-0.78	0	0	0	0	0	0	0	0
7/7/2024 12:05	64101	REFR_T1	12	18	6	1.03	1.02	-0.01	0.67	0.72	0	0	0	0	0	0
7/7/2024 12:06	20601	GRWO_T2	64	106	42	0.67	0.79	0.12	0.22	0.22	0	0	0	0	0	0
7/7/2024 12:06	42201	SHEN_T2	0	0	0	0	0	0	0.48	0.48	1	1	0	600	600	0
7/7/2024 12:07	40602	PIGR_T1	2	5	3	0.7	0.7	0	0	0	0	0	0	0	0	0
7/7/2024 12:07	48302	ORWI_T2	21	28	7	0.44	1.27	0.83	0.01	0.06	0	0	0	0	0	0
7/7/2024 12:07	67602	WARW_T2	0	0	0	0	0	0	0.22	0.26	2	2	0	1500	1500	0
7/7/2024 12:07	40601	PIGR_T1	2	5	3	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/7/2024 12:07	40603	PIGR_T1	20	40	20	0.4	0.43	0.03	-0.44	-0.4	0	0	0	0	0	0
7/7/2024 12:08	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 12:08	58003	WCAR_T1	1	1	0	0.6	0.3	-0.3	0.48	0.5	1	1	0	600	600	0
7/7/2024 12:08	44801	EDAN_T2	6	9	3	1.33	0.9	-0.43	0.99	0.98	0	0	0	0	0	0
7/7/2024 12:08	58001	WCAR_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 12:08	48302	ORWI_T2	21	28	7	0.44	1.27	0.83	0	0	0	0	0	0	0	0
7/7/2024 12:08	48303	ORWI_T2	0	0	0	0	0	0	0.84	0.85	0	0	0	0	0	0
7/7/2024 12:10	64204	KINZ_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/7/2024 12:10	58001	WCAR_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 12:10	64202	KINZ_T1	0	0	0	0	0	0	1.79	1.8	0	0	0	0	0	0
7/7/2024 12:10	58003	WCAR_T1	1	1	0	0.6	0.3	-0.3	0.48	0.5	1	1	0	600	600	0
7/7/2024 12:13	61301	EARL_T1	0	0	0	0	0	0	-0.57	-0.54	1	1	0	900	900	0
7/7/2024 12:13	56803	BENV_T1	9	7	-2	0.92	1.2	0.28	-0.6	-0.56	1	1	0	600	600	0
7/7/2024 12:13	56801	BENV_T1	6	13	7	0.35	0.63	0.28	0	0	0	0	0	0	0	0
7/7/2024 12:14	24104	EHAZ_T1	0	0	0	0	0	0	-1.93	-1.9	1	1	0	1200	1200	0
7/7/2024 12:14	24102	EHAZ_T1	4	2	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/7/2024 12:14	61301	EARL_T1	0	0	0	0	0	0	-0.57	-0.54	1	1	0	900	900	0
7/7/2024 12:14	24105	EHAZ_T1	4	4	0	6.98	6.98	0	0	0	0	0	0	0	0	0
7/7/2024 12:14	24101	EHAZ_T1	22	25	3	1.24	1.54	0.3	0	0	0	0	0	0	0	0
7/7/2024 12:14	56801	BENV_T1	6	13	7	0.35	0.63	0.28	-0.03	-0.02	1	1	0	600	600	0
7/7/2024 12:14	56803	BENV_T1	9	7	-2	0.92	1.2	0.28	0	0	0	0	0	0	0	0
7/7/2024 12:18	52006	LING_T2	1	3	2	0.7	0.33	-0.37	0	0	0	0	0	0	0	0
7/7/2024 12:18	52004	LING_T2	1	1	0	0.7	0.4	-0.3	0.24	0.22	0	0	0	0	0	0
7/7/2024 12:18	52002	LING_T2	21	53	32	0.23	0.56	0.33	0	0	0	0	0	0	0	0
7/7/2024 12:19	40903	JESH_T1	8	13	5	0.96	1.63	0.67	0	0	0	0	0	0	0	0
7/7/2024 12:19	52002	LING_T2	21	53	32	0.23	0.56	0.33	0	0	0	0	0	0	0	0
7/7/2024 12:19	40902	JESH_T1	0	0	0	0	0	0	-1.94	-1.87	3	3	0	1800	1800	0
7/7/2024 12:19	52004	LING_T2	1	1	0	0.7	0.4	-0.3	0.24	0.22	0	0	0	0	0	0
7/7/2024 12:19	52006	LING_T2	1	3	2	0.7	0.33	-0.37	0	0	0	0	0	0	0	0
7/7/2024 12:19	47101	MARL_T1	74	125	51	0.99	1.01	0.02	-1.39	-1.34	2	2	0	1200	1200	0
7/7/2024 12:19	40901	JESH_T1	1	3	2	2.1	1.2	-0.9	0	0	0	0	0	0	0	0
7/7/2024 12:19	66505	SMAN_T2	6	23	17	2.83	1.78	-1.05	0	0	0	0	0	0	0	0
7/7/2024 12:19	66504	SMAN_T2	7	7	0	1.19	1.15	-0.04	-0.3	-0.37	0	0	0	0	0	0
7/7/2024 12:20	66103	REAM_T2	1	1	0	1.4	1.3	-0.1	1.31	1.34	0	0	0	0	0	0
7/7/2024 12:20	52002	LING_T2	21	53	32	0.23	0.56	0.33	0	0	0	0	0	0	0	0
7/7/2024 12:20	52004	LING_T2	1	1	0	0.7	0.4	-0.3	0.24	0.22	0	0	0	0	0	0
7/7/2024 12:20	67703	WERN_T2	0	1	1	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/7/2024 12:20	44201	POIN_T1	0	0	0	0	0	0	-5.34	-5.32	3	3	0	3600	3600	0
7/7/2024 12:20	52006	LING_T2	1	3	2	0.7	0.33	-0.37	0	0	0	0	0	0	0	0
7/7/2024 12:20	64101	REFR_T1	13	17	4	0.98	0.79	-0.19	0.72	0.7	0	0	0	0	0	0
7/7/2024 12:21	67703	WERN_T2	0	1	1	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/7/2024 12:21	47402	PENS_T1	1	6	5	0.4	0.48	0.08	0	0	0	0	0	0	0	0
7/7/2024 12:21	47403	PENS_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/7/2024 12:21	66703	STRA_T1	4	8	4	0.28	1.68	1.4	0	0	0	0	0	0	0	0
7/7/2024 12:21	66701	STRA_T1	2	7	5	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
7/7/2024 12:21	47401	PENS_T1	6	4	-2	0.83	0.93	0.1	0.51	0.5	0	0	0	0	0	0
7/7/2024 12:21	40903	JESH_T1	8	13	5	0.96	1.63	0.67	0	0	0	0	0	0	0	0
7/7/2024 12:21	66702	STRA_T1	0	0	0	0	0	0	-1.37	-1.33	2	2	0	1500	1500	0
7/7/2024 12:21	40901	JESH_T1	1	3	2	2.1	1.2	-0.9	0	0	0	0	0	0	0	0
7/7/2024 12:21	40902	JESH_T1	0	0	0	0	0	0	-1.87	-1.85	3	3	0	1800	1800	0
7/7/2024 12:21	64101	REFR_T1	13	17	4	0.98	0.79	-0.19	1.41	0.29	0	0	0	0	0	0
7/7/2024 12:22	64101	REFR_T1	13	17	4	0.98	0.79	-0.19	0.7	0.15	0	0	0	0	0	0
7/7/2024 12:22	42201	SHEN_T2	0	0	0	0	0	0	0.48	0.51	1	1	0	600	600	0
7/7/2024 12:23	60201	ATGL_T2	1	1	0	0.5	0.2	-0.3	0.72	0.66	1	1	0	300	300	0
7/7/2024 12:23	44201	POIN_T1	0	0	0	0	0	0	-1.77	-1.84	1	1	0	1200	1200	0
7/7/2024 12:23	67804	WLAN_T1	10	10	0	1	1.8	0.8	-1.34	-1.3	0	0	0	0	0	0
7/7/2024 12:23	67801	WLAN_T1	13	49	36	0.67	0.79	0.12	0	0	0	0	0	0	0	0
7/7/2024 12:23	64101	REFR_T1	13	17	4	0.98	0.79	-0.19	0.7	0.15	0	0	0	0	0	0
7/7/2024 12:23	67803	WLAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 12:24	66504	SMAN_T2	7	7	0	1.19	1.15	-0.04	-0.73	-0.76	0	0	0	0	0	0
7/7/2024 12:24	24902	WHHA_T1	82	123	41	0.69	0.5	-0.19	0.47	0.46	0	0	0	0	0	0
7/7/2024 12:24	24901	WHHA_T1	2	2	0	0.7	1.6	0.9	0	0	0	0	0	0	0	0
7/7/2024 12:24	66505	SMAN_T2	6	23	17	2.83	1.78	-1.05	0	0	0	0	0	0	0	0
7/7/2024 12:24	67703	WERN_T2	0	1	1	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/7/2024 12:24	47401	PENS_T1	6	4	-2	0.83	0.93	0.1	0.51	0.5	0	0	0	0	0	0
7/7/2024 12:24	67602	WARW_T2	0	4	4	0	0	0	0.26	0.27	2	2	0	1500	1500	0
7/7/2024 12:24	47403	PENS_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/7/2024 12:24	47402	PENS_T1	1	6	5	0.4	0.48	0.08	0	0	0	0	0	0	0	0
7/7/2024 12:24	44201	POIN_T1	0	0	0	0	0	0	-3.55	-3.68	2	2	0	2400	2400	0
7/7/2024 12:25	67801	WLAN_T1	13	49	36	0.67	0.79	0.12	0	0	0	0	0	0	0	0
7/7/2024 12:25	67803	WLAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 12:25	64101	REFR_T1	13	17	4	0.98	0.79	-0.19	0.7	0.15	0	0	0	0	0	0
7/7/2024 12:25	67804	WLAN_T1	10	10	0	1	1.8	0.8	-1.34	-1.3	0	0	0	0	0	0
7/7/2024 12:26	22001	BOHE_T1	0	0	0	0	0	0	0.66	0.64	0	0	0	0	0	0
7/7/2024 12:26	22003	BOHE_T1	2	2	0	0.9	1.45	0.55	0	0	0	0	0	0	0	0
7/7/2024 12:27	54504	ENOL_T2	0	0	0	0	0	0	-1.07	-1.15	1	1	0	600	600	0
7/7/2024 12:27	54506	ENOL_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/7/2024 12:27	54503	ENOL_T2	1	6	5	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
7/7/2024 12:27	44201	POIN_T1	0	0	0	0	0	0	-1.77	-1.84	1	1	0	1200	1200	0
7/7/2024 12:28	46204	DANV_T2	143	150	7	0.86	1.26	0.4	0	0	0	0	0	0	0	0
7/7/2024 12:28	46203	DANV_T2	0	0	0	0	0	0	-4.28	-4.24	0	0	0	0	0	0
7/7/2024 12:28	46206	DANV_T2	98	127	29	0.9	1.06	0.16	0	0	0	0	0	0	0	0
7/7/2024 12:29	22901	HARW_T1	41	55	14	0.84	0.82	-0.02	0	0	0	0	0	0	0	0
7/7/2024 12:29	46203	DANV_T2	0	0	0	0	0	0	-4.28	-4.24	0	0	0	0	0	0
7/7/2024 12:29	46204	DANV_T2	143	150	7	0.86	1.26	0.4	0	0	0	0	0	0	0	0
7/7/2024 12:29	46206	DANV_T2	98	127	29	0.9	1.06	0.16	0	0	0	0	0	0	0	0
7/7/2024 12:29	22003	BOHE_T1	2	2	0	0.9	1.45	0.55	0	0	0	0	0	0	0	0
7/7/2024 12:29	22001	BOHE_T1	0	0	0	0	0	0	0.66	0.64	0	0	0	0	0	0
7/7/2024 12:29	22903	HARW_T1	20	22	2	0.83	1.9	1.07	0	0	0	0	0	0	0	0
7/7/2024 12:29	22905	HARW_T1	13	29	16	0.26	0.35	0.09	-0.36	-0.36	0	0	0	0	0	0
7/7/2024 12:30	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 12:30	46206	DANV_T2	116	149	33	1.01	1.11	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/7/2024 12:30	46204	DANV_T2	147	161	14	1.26	1.42	0.16	0	0	0	0	0	0	0	0
7/7/2024 12:30	46203	DANV_T2	0	1	1	0	0	0	-4.28	-4.24	0	0	0	0	0	0
7/7/2024 12:31	46206	DANV_T2	116	149	33	1.01	1.11	0.1	0	0	0	0	0	0	0	0
7/7/2024 12:31	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 12:31	46203	DANV_T2	0	1	1	0	0	0	-4.28	-4.24	0	0	0	0	0	0
7/7/2024 12:31	46204	DANV_T2	147	161	14	1.26	1.42	0.16	0	0	0	0	0	0	0	0
7/7/2024 12:32	47001	HUGH_T2	3	4	1	4.87	6.33	1.46	-0.88	-0.85	1	1	0	900	900	0
7/7/2024 12:35	54701	NEBL_T1	8	58	50	0.84	0.47	-0.37	0	0	1	1	0	600	600	0
7/7/2024 12:36	43301	WATS_T2	6	7	1	0.53	0.7	0.17	0	0	0	0	0	0	0	0
7/7/2024 12:36	56501	ROCK_T2	5	8	3	1.02	0.53	-0.49	0	0	0	0	0	0	0	0
7/7/2024 12:36	56504	ROCK_T2	16	24	8	0.68	0.75	0.07	0.55	0.54	0	0	0	0	0	0
7/7/2024 12:36	43304	WATS_T2	8	28	20	0.55	0.46	-0.09	-0.5	-0.45	0	0	0	0	0	0
7/7/2024 12:37	60101	COCA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 12:37	44203	POIN_T2	4	2	-2	1.53	2.65	1.12	-0.47	-0.48	2	2	0	2100	2100	0
7/7/2024 12:37	56501	ROCK_T2	5	8	3	1.02	0.53	-0.49	0	0	0	0	0	0	0	0
7/7/2024 12:37	60102	COCA_T1	0	0	0	0	0	0	0.61	0.56	2	2	0	1200	1200	0
7/7/2024 12:37	56504	ROCK_T2	16	24	8	0.68	0.75	0.07	0.54	0.54	0	0	0	0	0	0
7/7/2024 12:38	56501	ROCK_T2	5	8	3	1.02	0.53	-0.49	0	0	0	0	0	0	0	0
7/7/2024 12:38	65901	SAKR_T2	1	3	2	5.6	5.1	-0.5	-0.43	-0.34	2	2	0	1500	1500	0
7/7/2024 12:38	56504	ROCK_T2	16	24	8	0.68	0.75	0.07	1.08	1.08	0	0	0	0	0	0
7/7/2024 12:39	56504	ROCK_T2	16	24	8	0.68	0.75	0.07	0.54	0.54	0	0	0	0	0	0
7/7/2024 12:39	56501	ROCK_T2	5	8	3	1.02	0.53	-0.49	0	0	0	0	0	0	0	0
7/7/2024 12:41	61102	BERK_T5	0	0	0	0	0	0	0.06	0.22	2	2	0	1200	1200	0
7/7/2024 12:41	61101	BERK_T5	4	10	6	0.68	0.55	-0.13	0	0	0	0	0	0	0	0
7/7/2024 12:41	51604	DUKE_T2	2	1	-1	0.6	0	-0.6	-1.8	-1.79	1	1	0	900	900	0
7/7/2024 12:42	46206	DANV_T2	116	149	33	1.01	1.11	0.1	0	0	0	0	0	0	0	0
7/7/2024 12:42	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 12:42	46204	DANV_T2	147	161	14	1.26	1.42	0.16	0	0	0	0	0	0	0	0
7/7/2024 12:42	46203	DANV_T2	0	1	1	0	0	0	-2.12	-2.1	0	0	0	0	0	0
7/7/2024 12:43	65901	SAKR_T2	1	3	2	5.6	5.1	-0.5	-0.43	-0.34	2	2	0	1500	1500	0
7/7/2024 12:43	51603	DUKE_T1	0	0	0	0	0	0	-0.86	-0.65	1	1	0	900	900	0
7/7/2024 12:43	60101	COCA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 12:43	60102	COCA_T1	0	0	0	0	0	0	0.61	0.56	2	2	0	1200	1200	0
7/7/2024 12:45	46204	DANV_T2	144	161	17	1.43	1.57	0.14	0	0	0	0	0	0	0	0
7/7/2024 12:45	46205	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 12:45	46203	DANV_T2	0	1	1	0	0	0	-2.12	-2.1	0	0	0	0	0	0
7/7/2024 12:45	51604	DUKE_T2	1	0	-1	0.1	0	-0.1	-1.8	-1.79	1	1	0	900	900	0
7/7/2024 12:45	46206	DANV_T2	110	145	35	1.12	1.15	0.03	0	0	0	0	0	0	0	0
7/7/2024 12:46	46204	DANV_T2	144	161	17	1.43	1.57	0.14	0	0	0	0	0	0	0	0
7/7/2024 12:46	46206	DANV_T2	110	145	35	1.12	1.15	0.03	0	0	0	0	0	0	0	0
7/7/2024 12:46	28805	LAKE_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
7/7/2024 12:46	46205	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 12:46	12704	MACU_T1	5	8	3	0.44	0.74	0.3	0	0	0	0	0	0	0	0
7/7/2024 12:46	47001	HUGH_T2	4	4	0	4.35	6.33	1.98	-0.85	-0.89	1	1	0	900	900	0
7/7/2024 12:46	46203	DANV_T2	0	1	1	0	0	0	-2.12	-2.1	0	0	0	0	0	0
7/7/2024 12:46	12701	MACU_T1	14	23	9	1.4	0.71	-0.69	-0.61	-0.61	1	1	0	1200	1200	0
7/7/2024 12:47	11801	FRAN_T2	3	4	1	0.43	0.35	-0.08	0	0	0	0	0	0	0	0
7/7/2024 12:47	47101	MARL_T1	115	147	32	1.18	1.2	0.02	-0.62	-0.55	1	1	0	600	600	0
7/7/2024 12:47	11803	FRAN_T2	27	18	-9	0.5	0.43	-0.07	1.03	1.09	1	1	0	1200	1200	0
7/7/2024 12:47	20601	GRWO_T2	104	101	-3	1	0.68	-0.32	0.24	0.23	0	0	0	0	0	0
7/7/2024 12:47	47104	MARL_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 12:47	47001	HUGH_T2	4	4	0	4.35	6.33	1.98	-0.85	-0.89	1	1	0	900	900	0
7/7/2024 12:48	28403	HART_T2	0	0	0	0	0	0	-0.43	-0.42	1	1	0	900	900	0
7/7/2024 12:49	12704	MACU_T1	5	8	3	0.44	0.74	0.3	0	0	0	0	0	0	0	0
7/7/2024 12:49	12701	MACU_T1	14	23	9	1.4	0.71	-0.69	-0.61	-0.61	1	1	0	1200	1200	0
7/7/2024 12:49	44201	POIN_T1	0	0	0	0	0	0	-1.84	-1.82	1	1	0	1200	1200	0
7/7/2024 12:50	46301	ROHR_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 12:50	46302	ROHR_T1	11	17	6	0.97	0.96	-0.01	0.45	0.46	0	0	0	0	0	0
7/7/2024 12:50	42201	SHEN_T2	0	0	0	0	0	0	0.51	0.49	1	1	0	600	600	0
7/7/2024 12:50	44201	POIN_T1	0	0	0	0	0	0	-1.84	-1.82	1	1	0	1200	1200	0
7/7/2024 12:50	47104	MARL_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 12:50	47101	MARL_T1	115	147	32	1.18	1.2	0.02	-0.62	-0.55	1	1	0	600	600	0
7/7/2024 12:57	67605	WARW_T1	0	1	1	0	0.7	0.7	-0.84	-0.81	0	0	0	0	0	0
7/7/2024 12:58	64204	KINZ_T1	0	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0
7/7/2024 12:58	64203	KINZ_T1	0	0	0	0	0	0	-0.39	-0.36	2	2	0	900	900	0
7/7/2024 13:00	11101	EGYP_T1	3	7	4	0.9	1.03	0.13	0	0	0	0	0	0	0	0
7/7/2024 13:00	67203	TEHI_T1	0	0	0	0	0	0	1.6	1.35	1	1	0	900	900	0
7/7/2024 13:00	11104	EGYP_T1	16	16	0	1.19	1.95	0.76	0.39	0.38	1	1	0	900	900	0
7/7/2024 13:00	46301	ROHR_T1	2	10	8	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/7/2024 13:00	67201	TEHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 13:00	11102	EGYP_T1	40	37	-3	0.94	0.9	-0.04	0	0	0	0	0	0	0	0
7/7/2024 13:00	46302	ROHR_T1	14	17	3	1.04	1.03	-0.01	0.46	0.49	0	0	0	0	0	0
7/7/2024 13:02	67605	WARW_T1	1	1	0	0.1	0.7	0.6	-0.84	-0.81	0	0	0	0	0	0
7/7/2024 13:03	67605	WARW_T1	1	1	0	0.1	0.7	0.6	-0.84	-0.81	0	0	0	0	0	0
7/7/2024 13:03	67203	TEHI_T1	0	0	0	0	0	0	1.6	1.35	1	1	0	900	900	0
7/7/2024 13:03	67201	TEHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 13:04	47101	MARL_T1	127	220	93	1.41	1.21	-0.2	-0.55	-0.59	1	1	0	600	600	0
7/7/2024 13:04	64203	KINZ_T1	0	0	0	0	0	0	-0.39	-0.36	2	2	0	900	900	0
7/7/2024 13:04	66505	SMAN_T2	18	65	47	0.46	1.13	0.67	0.42	0.53	4	4	0	2300	2300	0
7/7/2024 13:04	64204	KINZ_T1	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
7/7/2024 13:04	47104	MARL_T1	0	23	23	0	0.16	0.16	0	0	0	0	0	0	0	0
7/7/2024 13:04	66504	SMAN_T2	4	14	10	0.38	2.54	2.16	0	0	0	0	0	0	0	0
7/7/2024 13:05	11102	EGYP_T1	40	37	-3	0.94	0.9	-0.04	0	0	0	0	0	0	0	0
7/7/2024 13:05	11101	EGYP_T1	3	7	4	0.9	1.03	0.13	0	0	0	0	0	0	0	0
7/7/2024 13:05	11104	EGYP_T1	16	16	0	1.19	1.95	0.76	0.78	0.76	2	2	0	1800	1800	0
7/7/2024 13:05	64101	REFR_T1	5	4	-1	0.96	1.47	0.51	0.17	0.25	0	0	0	0	0	0
7/7/2024 13:06	67605	WARW_T1	1	1	0	0.1	0.7	0.6	-0.81	-0.8	0	0	0	0	0	0
7/7/2024 13:06	64101	REFR_T1	5	4	-1	0.96	1.47	0.51	0.25	0.21	0	0	0	0	0	0
7/7/2024 13:07	44902	SCOT_T2	29	102	73	0.1	0.22	0.12	-1.67	-1.68	0	0	0	0	0	0
7/7/2024 13:07	67605	WARW_T1	1	1	0	0.1	0.7	0.6	-0.81	-0.8	0	0	0	0	0	0
7/7/2024 13:07	22001	BOHE_T1	0	0	0	0	0	0	0.62	0.65	0	0	0	0	0	0
7/7/2024 13:07	22003	BOHE_T1	2	3	1	1.75	1.4	-0.35	0	0	0	0	0	0	0	0
7/7/2024 13:08	56504	ROCK_T2	25	31	6	0.92	0.78	-0.14	0.52	0.53	0	0	0	0	0	0
7/7/2024 13:08	44903	SCOT_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 13:08	56501	ROCK_T2	5	5	0	0.46	0.43	-0.03	0	0	0	0	0	0	0	0
7/7/2024 13:08	44905	SCOT_T1	20	24	4	1.37	0.75	-0.62	0	0	0	0	0	0	0	0
7/7/2024 13:09	44903	SCOT_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 13:09	59101	WALK_T2	1	3	2	0.1	0.1	0	0.1	0.08	0	0	0	0	0	0
7/7/2024 13:09	44905	SCOT_T1	20	24	4	1.37	0.75	-0.62	0	0	0	0	0	0	0	0
7/7/2024 13:10	57001	WHIH_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 13:10	57002	WHIH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 13:10	57004	WHIH_T2	0	0	0	0	0	0	-0.5	-0.44	0	0	0	0	0	0
7/7/2024 13:11	13503	MCMI_T2	0	1	1	0	0.1	0.1	-0.41	-0.41	0	0	0	0	0	0
7/7/2024 13:11	67605	WARW_T1	1	1	0	0.1	0.7	0.6	-0.81	-0.8	0	0	0	0	0	0
7/7/2024 13:12	46204	DANV_T2	159	155	-4	1.54	1.59	0.05	0	0	0	0	0	0	0	0
7/7/2024 13:12	46205	DANV_T2	1	11	10	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/7/2024 13:12	46206	DANV_T2	141	153	12	1.14	1.16	0.02	0	0	0	0	0	0	0	0
7/7/2024 13:12	46203	DANV_T2	1	0	-1	0.9	0	-0.9	-2.13	-2.12	0	0	0	0	0	0
7/7/2024 13:15	46206	DANV_T2	123	188	65	1.16	1.18	0.02	0	0	0	0	0	0	0	0
7/7/2024 13:15	46203	DANV_T2	0	0	0	0	0	0	-2.13	-2.12	0	0	0	0	0	0
7/7/2024 13:15	46204	DANV_T2	146	163	17	1.59	1.57	-0.02	0	0	0	0	0	0	0	0
7/7/2024 13:15	46205	DANV_T2	1	18	17	0.1	0.28	0.18	0	0	0	0	0	0	0	0
7/7/2024 13:16	52403	GRPA_T2	127	176	49	0.8	1.05	0.25	-0.43	-0.45	0	0	0	0	0	0
7/7/2024 13:16	52402	GRPA_T2	91	90	-1	1.66	0.72	-0.94	0	0	0	0	0	0	0	0
7/7/2024 13:16	52404	GRPA_T2	1	4	3	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/7/2024 13:16	52401	GRPA_T2	6	40	34	0.23	0.44	0.21	0	0	0	0	0	0	0	0
7/7/2024 13:18	64304	LINC_T2	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
7/7/2024 13:18	64302	LINC_T2	9	14	5	1.28	1.1	-0.18	1.52	1.52	0	0	0	0	0	0
7/7/2024 13:19	66604	QVIL_T2	0	0	0	0	0	0	0.47	0.53	0	0	0	0	0	0
7/7/2024 13:19	64304	LINC_T2	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
7/7/2024 13:19	64302	LINC_T2	9	14	5	1.28	1.1	-0.18	1.52	1.52	0	0	0	0	0	0
7/7/2024 13:19	55002	NEWP_T1	2	1	-1	1.1	1.8	0.7	0	0	0	0	0	0	0	0
7/7/2024 13:19	55001	NEWP_T1	26	17	-9	0.37	0.37	0	-0.14	-0.15	0	0	0	0	0	0
7/7/2024 13:19	66601	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 13:21	56501	ROCK_T2	3	5	2	0.4	0.44	0.04	-4.06	-4.07	0	0	0	0	0	0
7/7/2024 13:21	56504	ROCK_T2	27	32	5	0.88	0.6	-0.28	0	0	0	0	0	0	0	0
7/7/2024 13:21	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/7/2024 13:21	42201	SHEN_T2	0	0	0	0	0	0	0.49	0.51	1	1	0	600	600	0
7/7/2024 13:22	55002	NEWP_T1	2	1	-1	1.1	1.8	0.7	0	0	0	0	0	0	0	0
7/7/2024 13:22	56504	ROCK_T2	27	32	5	0.88	0.6	-0.28	0.53	0.56	0	0	0	0	0	0
7/7/2024 13:22	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/7/2024 13:22	56501	ROCK_T2	3	5	2	0.4	0.44	0.04	-2.04	-1.98	0	0	0	0	0	0
7/7/2024 13:22	55001	NEWP_T1	26	17	-9	0.37	0.37	0	-0.15	-0.13	0	0	0	0	0	0
7/7/2024 13:23	56501	ROCK_T2	3	5	2	0.4	0.44	0.04	0	0	0	0	0	0	0	0
7/7/2024 13:23	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/7/2024 13:23	56504	ROCK_T2	27	32	5	0.88	0.6	-0.28	0.53	0.56	0	0	0	0	0	0
7/7/2024 13:24	56504	ROCK_T2	27	32	5	0.88	0.6	-0.28	0.53	0.56	0	0	0	0	0	0
7/7/2024 13:24	56501	ROCK_T2	3	5	2	0.4	0.44	0.04	-6.11	-5.94	0	0	0	0	0	0
7/7/2024 13:24	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/7/2024 13:25	56501	ROCK_T2	3	5	2	0.4	0.44	0.04	-2.04	-1.98	0	0	0	0	0	0
7/7/2024 13:25	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/7/2024 13:25	56504	ROCK_T2	27	32	5	0.88	0.6	-0.28	0	0	0	0	0	0	0	0
7/7/2024 13:25	46301	ROHR_T1	1	11	10	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/7/2024 13:25	46302	ROHR_T1	14	17	3	0.96	1.06	0.1	0.49	0.49	0	0	0	0	0	0
7/7/2024 13:30	40101	HUNT_T2	247	372	125	0.71	0.72	0.01	-0.12	-0.09	0	0	0	0	0	0
7/7/2024 13:31	46802	HEPB_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
7/7/2024 13:33	52403	GRPA_T2	150	172	22	1.08	0.76	-0.32	0	0	0	0	0	0	0	0
7/7/2024 13:33	52402	GRPA_T2	73	89	16	0.71	0.76	0.05	0	0	0	0	0	0	0	0
7/7/2024 13:33	52401	GRPA_T2	37	21	-16	0.48	0.2	-0.28	-0.75	-0.77	0	0	0	0	0	0
7/7/2024 13:33	52404	GRPA_T2	3	2	-1	0.23	0.5	0.27	0	0	0	0	0	0	0	0
7/7/2024 13:34	40101	HUNT_T2	247	372	125	0.71	0.72	0.01	-0.12	-0.09	0	0	0	0	0	0
7/7/2024 13:35	44703	MUNC_T2	5	9	4	0.98	0.92	-0.06	0.36	0.4	0	0	0	0	0	0
7/7/2024 13:36	13105	NHAM_T2	79	165	86	1.05	0.9	-0.15	0	0	0	0	0	0	0	0
7/7/2024 13:36	42201	SHEN_T2	0	0	0	0	0	0	0.51	0.54	1	1	0	600	600	0
7/7/2024 13:36	66701	STRA_T1	10	13	3	0.77	1.17	0.4	1.59	1.74	2	2	0	1200	1200	0
7/7/2024 13:36	66703	STRA_T1	31	37	6	0.29	0.37	0.08	0	0	0	0	0	0	0	0
7/7/2024 13:36	13102	NHAM_T2	3	3	0	2.07	0.33	-1.74	0	0	0	0	0	0	0	0
7/7/2024 13:36	13103	NHAM_T2	18	43	25	0.72	0.88	0.16	-0.93	-0.95	1	1	0	600	600	0
7/7/2024 13:37	24202	PROV_T4	0	0	0	0	0	0	0.1	0.09	1	1	0	1200	1200	0
7/7/2024 13:37	66703	STRA_T1	31	37	6	0.29	0.37	0.08	-0.33	-0.35	0	0	0	0	0	0
7/7/2024 13:37	66701	STRA_T1	10	13	3	0.77	1.17	0.4	0.8	0.87	1	1	0	600	600	0
7/7/2024 13:37	24206	PROV_T4	5	9	4	0.24	0.8	0.56	0	0	0	0	0	0	0	0
7/7/2024 13:37	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/7/2024 13:37	67002	STHI_T2	0	0	0	0	0	0	-0.28	-0.29	1	1	0	600	600	0
7/7/2024 13:38	66701	STRA_T1	10	13	3	0.77	1.17	0.4	0.8	0.87	1	1	0	600	600	0
7/7/2024 13:38	66703	STRA_T1	31	37	6	0.29	0.37	0.08	0	0	0	0	0	0	0	0
7/7/2024 13:39	55103	WERT_T1	2	2	0	4.3	4.2	-0.1	0	0	0	0	0	0	0	0
7/7/2024 13:39	55105	WERT_T1	3	3	0	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
7/7/2024 13:39	55101	WERT_T1	0	0	0	0	0	0	-2.45	-2.53	4	4	0	3300	3300	0
7/7/2024 13:42	15001	BLMO_T1	47	37	-10	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
7/7/2024 13:43	54503	ENOL_T2	2	1	-1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/7/2024 13:43	54502	ENOL_T2	0	2	2	0	0	0	-2.24	-2.23	1	1	0	600	600	0
7/7/2024 13:43	54501	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 13:43	54506	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 13:45	61002	DONV_T2	7	18	11	0.66	0	-0.66	-0.46	-0.46	2	2	0	1200	1200	0
7/7/2024 13:47	47104	MARL_T1	21	24	3	1.09	0.72	-0.37	0	0	0	0	0	0	0	0
7/7/2024 13:47	47101	MARL_T1	169	226	57	1.27	1.19	-0.08	-0.6	-0.53	1	1	0	600	600	0
7/7/2024 13:48	21901	HUMB_T1	3	2	-1	1.15	1.9	0.75	-2.52	-2.51	0	0	0	0	0	0
7/7/2024 13:50	66504	SMAN_T2	13	13	0	1.64	0.53	-1.11	-0.28	-0.11	0	0	0	0	0	0
7/7/2024 13:50	65001	NEFF_T2	0	0	0	0	0	0	-0.19	-0.09	1	1	0	1200	1200	0
7/7/2024 13:50	65005	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 13:50	66505	SMAN_T2	98	219	121	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
7/7/2024 13:50	66503	SMAN_T2	5	2	-3	0.26	0	-0.26	0	0	0	0	0	0	0	0
7/7/2024 13:56	60902	DONG_T2	2	2	0	0.7	0.45	-0.25	0.86	0.88	0	0	0	0	0	0
7/7/2024 13:56	60901	DONG_T2	64	71	7	1.16	1.33	0.17	0	0	0	0	0	0	0	0
7/7/2024 13:58	53902	HALI_T2	1	1	0	1.6	4.2	0.6	0	0	0	0	0	0	0	0
7/7/2024 13:58	53901	HALI_T2	0	1	1	0	0	0	-0.8	-0.84	0	0	0	0	0	0
7/7/2024 14:00	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
7/7/2024 14:00	67605	WARW_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
7/7/2024 14:02	58401	MORO_T1	7	15	8	0.34	0.5	0.16	0	0	0	0	0	0	0	0
7/7/2024 14:02	43202	MVIL_T2	1	0	-1	0.5	0	-0.5	-0.42	-0.42	0	0	0	0	0	0
7/7/2024 14:02	43201	MVIL_T2	8	13	5	0.73	0.5	-0.23	0	0	0	0	0	0	0	0
7/7/2024 14:02	58402	MORO_T1	6	3	-3	0.53	0.3	-0.23	-0.33	-0.31	4	4	0	2250	2250	0
7/7/2024 14:05	43202	MVIL_T2	1	0	-1	0.5	0	-0.5	-0.42	-0.42	0	0	0	0	0	0
7/7/2024 14:05	43201	MVIL_T2	8	13	5	0.73	0.5	-0.23	0	0	0	0	0	0	0	0
7/7/2024 14:06	56503	ROCK_T2	2	1	-1	0.75	0	-0.75	0	0	0	0	0	0	0	0
7/7/2024 14:06	56501	ROCK_T2	2	5	3	0.45	0.5	0.05	0	0	0	0	0	0	0	0
7/7/2024 14:06	43201	MVIL_T2	8	13	5	0.73	0.5	-0.23	0	0	0	0	0	0	0	0
7/7/2024 14:06	43202	MVIL_T2	1	0	-1	0.5	0	-0.5	-0.42	-0.41	0	0	0	0	0	0
7/7/2024 14:06	56504	ROCK_T2	22	38	16	0.85	0.65	-0.2	0.57	0.58	0	0	0	0	0	0
7/7/2024 14:07	56503	ROCK_T2	2	1	-1	0.75	0	-0.75	0	0	0	0	0	0	0	0
7/7/2024 14:07	56501	ROCK_T2	2	5	3	0.45	0.5	0.05	-3.91	-3.92	0	0	0	0	0	0
7/7/2024 14:07	56504	ROCK_T2	22	38	16	0.85	0.65	-0.2	0.58	0.59	0	0	0	0	0	0
7/7/2024 14:11	41602	CLEV_T1	81	62	-19	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
7/7/2024 14:11	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/7/2024 14:13	61301	EARL_T1	0	0	0	0	0	0	-0.44	-0.49	1	1	0	900	900	0
7/7/2024 14:13	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 14:13	16004	DORN_T1	4	2	-2	1.3	0.85	-0.45	0	0	0	0	0	0	0	0
7/7/2024 14:13	16005	DORN_T1	6	1	-5	1.28	1.3	0.02	0	0	0	0	0	0	0	0
7/7/2024 14:13	51603	DUKE_T1	0	0	0	0	0	0	-0.75	-0.63	1	1	0	900	900	0
7/7/2024 14:13	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/7/2024 14:13	16007	DORN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/7/2024 14:13	16001	DORN_T1	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
7/7/2024 14:15	61301	EARL_T1	0	0	0	0	0	0	-0.44	-0.49	1	1	0	900	900	0
7/7/2024 14:15	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/7/2024 14:15	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 14:16	20601	GRWO_T2	122	148	26	1.23	1.17	-0.06	0.32	0.28	0	0	0	0	0	0
7/7/2024 14:18	54701	NEBL_T1	45	143	98	0.41	0.5	0.09	0	0	1	1	0	600	600	0
7/7/2024 14:19	24204	PROV_T3	1	6	5	7.3	7.3	0	0	0	0	0	0	0	0	0
7/7/2024 14:19	24201	PROV_T3	0	1	1	0	0	0	-0.43	-0.38	1	1	0	1200	1200	0
7/7/2024 14:20	64202	KINZ_T1	2	5	3	0.15	0.35	0.2	0	0	0	0	0	0	0	0
7/7/2024 14:20	64201	KINZ_T1	1	0	-1	0.2	0	-0.2	-0.51	-0.52	4	4	0	2100	2100	0
7/7/2024 14:20	64204	KINZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/7/2024 14:23	49804	UNIV_T1	3	0	-3	0.47	0	-0.47	0.49	0.49	0	0	0	0	0	0
7/7/2024 14:23	44203	POIN_T2	3	9	6	3.33	2.1	-1.23	0	0	0	0	0	0	0	0
7/7/2024 14:23	44202	POIN_T2	0	0	0	0	0	0	-0.38	-0.39	1	1	0	1200	1200	0
7/7/2024 14:23	24201	PROV_T3	0	1	1	0	0	0	-0.38	-0.39	1	1	0	1200	1200	0
7/7/2024 14:23	44201	POIN_T1	0	0	0	0	0	0	-3.38	-3.37	2	2	0	2400	2400	0
7/7/2024 14:23	24204	PROV_T3	1	6	5	7.3	7.3	0	0	0	0	0	0	0	0	0
7/7/2024 14:27	67605	WARW_T1	1	1	0	1	1	0	-0.67	-0.65	0	0	0	0	0	0
7/7/2024 14:27	56801	BENV_T1	8	9	1	0.68	0.69	0.01	-0.5	-0.52	2	2	0	1200	1200	0
7/7/2024 14:27	56803	BENV_T1	7	9	2	3.4	2.24	-1.16	0	0	0	0	0	0	0	0
7/7/2024 14:28	56801	BENV_T1	8	9	1	0.68	0.69	0.01	-1	-1.04	4	4	0	2400	2400	0
7/7/2024 14:28	51604	DUKE_T2	2	2	0	0.65	0	-0.65	-1.73	-1.72	1	1	0	900	900	0
7/7/2024 14:28	56803	BENV_T1	7	9	2	3.4	2.24	-1.16	0	0	0	0	0	0	0	0
7/7/2024 14:29	51604	DUKE_T2	2	2	0	0.65	0	-0.65	-1.73	-1.72	1	1	0	900	900	0
7/7/2024 14:30	56803	BENV_T1	8	10	2	2.05	2.04	-0.01	0	0	0	0	0	0	0	0
7/7/2024 14:30	56801	BENV_T1	9	13	4	0.64	0.61	-0.03	-1.51	-1.56	6	6	0	3600	3600	0
7/7/2024 14:31	56801	BENV_T1	9	13	4	0.64	0.61	-0.03	-0.5	-0.52	2	2	0	1200	1200	0
7/7/2024 14:31	56803	BENV_T1	8	10	2	2.05	2.04	-0.01	0	0	0	0	0	0	0	0
7/7/2024 14:34	61303	EARL_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/7/2024 14:34	61301	EARL_T1	0	0	0	0	0	0	-0.49	-0.48	1	1	0	900	900	0
7/7/2024 14:34	61302	EARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 14:35	64101	REFR_T1	17	18	1	1.52	2.13	0.61	0.23	0.28	0	0	0	0	0	0
7/7/2024 14:35	61301	EARL_T1	0	0	0	0	0	0	-0.49	-0.48	1	1	0	900	900	0
7/7/2024 14:35	61302	EARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 14:35	61303	EARL_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/7/2024 14:38	44201	POIN_T1	0	0	0	0	0	0	-1.69	-1.69	1	1	0	1200	1200	0
7/7/2024 14:38	64101	REFR_T1	17	18	1	1.52	2.13	0.61	0.28	0.26	0	0	0	0	0	0
7/7/2024 14:39	44201	POIN_T1	0	0	0	0	0	0	-1.69	-1.69	1	1	0	1200	1200	0
7/7/2024 14:39	64101	REFR_T1	17	18	1	1.52	2.13	0.61	0.56	0.51	0	0	0	0	0	0
7/7/2024 14:43	41602	CLEV_T1	60	95	35	0.66	0.75	0.09	0	0	1	1	0	600	600	0
7/7/2024 14:43	56801	BENV_T1	9	13	4	0.64	0.61	-0.03	-1.04	-1.04	4	4	0	2400	2400	0
7/7/2024 14:43	56803	BENV_T1	8	10	2	2.05	2.04	-0.01	0	0	0	0	0	0	0	0
7/7/2024 14:44	56801	BENV_T1	9	13	4	0.64	0.61	-0.03	-0.52	-0.52	2	2	0	1200	1200	0
7/7/2024 14:44	56803	BENV_T1	8	10	2	2.05	2.04	-0.01	0	0	0	0	0	0	0	0
7/7/2024 14:44	59101	WALK_T2	1	5	4	0.3	0.97	0.67	0.15	0.79	0	0	0	0	0	0
7/7/2024 14:45	56801	BENV_T1	7	14	7	0.6	0.39	-0.21	-0.52	-0.52	2	2	0	1200	1200	0
7/7/2024 14:45	56803	BENV_T1	8	11	3	2.04	1.96	-0.08	0	0	0	0	0	0	0	0
7/7/2024 14:46	56803	BENV_T1	8	11	3	2.04	1.96	-0.08	0	0	0	0	0	0	0	0
7/7/2024 14:46	56801	BENV_T1	7	14	7	0.6	0.39	-0.21	-1.04	-1.04	4	4	0	2400	2400	0
7/7/2024 14:47	56803	BENV_T1	8	11	3	2.04	1.96	-0.08	0	0	0	0	0	0	0	0
7/7/2024 14:47	56801	BENV_T1	7	14	7	0.6	0.39	-0.21	-0.52	-0.52	2	2	0	1200	1200	0
7/7/2024 14:49	12301	LANA_T2	10	11	1	0.52	0.9	0.38	0	0	0	0	0	0	0	0
7/7/2024 14:49	12302	LANA_T2	25	28	3	0.77	0.49	-0.28	-1.46	-1.42	3	3	0	2700	2700	0
7/7/2024 14:49	47101	MARL_T1	181	271	90	1.45	1.24	-0.21	-0.55	-0.54	1	1	0	600	600	0
7/7/2024 14:49	47104	MARL_T1	4	29	25	0.2	0.37	0.17	0	0	0	0	0	0	0	0
7/7/2024 14:49	12305	LANA_T2	38	44	6	0.89	0.92	0.03	0	0	0	0	0	0	0	0
7/7/2024 14:49	12304	LANA_T2	249	260	11	1.25	1.12	-0.13	0	0	0	0	0	0	0	0
7/7/2024 14:50	47101	MARL_T1	181	271	90	1.45	1.24	-0.21	-0.55	-0.54	1	1	0	600	600	0
7/7/2024 14:50	47104	MARL_T1	4	29	25	0.2	0.37	0.17	0	0	0	0	0	0	0	0
7/7/2024 14:51	49804	UNIV_T1	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
7/7/2024 14:51	56504	ROCK_T2	42	67	25	0.68	0.58	-0.1	0.62	0.64	0	0	0	0	0	0
7/7/2024 14:51	56503	ROCK_T2	1	2	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/7/2024 14:51	49803	UNIV_T1	0	1	1	0	0	0	-1.36	-1.35	0	0	0	0	0	0
7/7/2024 14:51	56501	ROCK_T2	7	11	4	0.71	0.75	0.04	0	0	0	0	0	0	0	0
7/7/2024 14:53	66701	STRA_T1	22	33	11	1.16	0.73	-0.43	0	0	0	0	0	0	0	0
7/7/2024 14:53	56501	ROCK_T2	7	11	4	0.71	0.75	0.04	-1.94	-1.94	0	0	0	0	0	0
7/7/2024 14:53	56504	ROCK_T2	42	67	25	0.68	0.58	-0.1	0	0	0	0	0	0	0	0
7/7/2024 14:53	56503	ROCK_T2	1	2	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/7/2024 14:53	66703	STRA_T1	95	110	15	0.58	0.52	-0.06	-0.26	-0.78	0	0	0	0	0	0
7/7/2024 14:54	59101	WALK_T2	4	7	3	0.78	2.2	1.42	1.58	0.67	0	2	2	0	1200	1200
7/7/2024 14:55	59101	WALK_T2	4	7	3	0.78	2.2	1.42	1.58	0.67	0	2	2	0	1200	1200
7/7/2024 14:56	61301	EARL_T1	0	0	0	0	0	0	-0.48	-0.49	1	1	0	900	900	0
7/7/2024 14:56	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 14:57	56801	BENV_T1	7	14	7	0.6	0.39	-0.21	-1.04	-1.02	4	4	0	2400	2400	0
7/7/2024 14:57	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 14:57	61301	EARL_T1	0	0	0	0	0	0	-0.48	-0.49	1	1	0	900	900	0
7/7/2024 14:57	56803	BENV_T1	8	11	3	2.04	1.96	-0.08	0	0	0	0	0	0	0	0
7/7/2024 14:58	56801	BENV_T1	7	14	7	0.6	0.39	-0.21	-0.52	-0.51	2	2	0	1200	1200	0
7/7/2024 14:58	56803	BENV_T1	8	11	3	2.04	1.96	-0.08	0	0	0	0	0	0	0	0
7/7/2024 14:58	62105	ELAN_T1	2	4	2	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
7/7/2024 14:58	62102	ELAN_T1	5	5	0	1.04	0.2	-0.84	-0.07	-0.1	0	0	0	0	0	0
7/7/2024 14:59	56803	BENV_T1	8	11	3	2.04	1.96	-0.08	0	0	0	0	0	0	0	0
7/7/2024 14:59	56801	BENV_T1	7	14	7	0.6	0.39	-0.21	-0.52	-0.51	2	2	0	1200	1200	0
7/7/2024 15:00	56801	BENV_T1	9	10	1	0.51	0.25	-0.26	-0.52	-0.51	2	2	0	1200	1200	0
7/7/2024 15:00	56803	BENV_T1	10	10	0	2.04	2.04	0	0	0	0	0	0	0	0	0
7/7/2024 15:01	56801	BENV_T1	9	10	1	0.51	0.25	-0.26	-0.52	-0.51	2	2	0	1200	1200	0
7/7/2024 15:01	56803	BENV_T1	10	10	0	2.04	2.04	0	0	0	0	0	0	0	0	0
7/7/2024 15:02	56803	BENV_T1	10	10	0	2.04	2.04	0	0	0	0	0	0	0	0	0
7/7/2024 15:02	55002	NEWP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/7/2024 15:02	56801	BENV_T1	9	10	1	0.51	0.25	-0.26	-0.52	-0.51	2	2	0	1200	1200	0
7/7/2024 15:02	44701	MUNC_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 15:02	44703	MUNC_T2	9	13	4	1.5	0.84	-0.66	0.39	0.37	0	0	0	0	0	0
7/7/2024 15:02	55001	NEWP_T1	39	45	6	0.68	0.56	-0.12	-0.09	-0.12	0	0	0	0	0	0
7/7/2024 15:03	27605	PIRI_T2	284	380	96	1.04	1.1	0.06	1.24	1.33	0	0	0	0	0	0
7/7/2024 15:03	27603	PIRI_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 15:04	59003	MIFF_T1	4	6	2	0.5	1.25	0.75	-0.37	-0.32	0	0	0	0	0	0
7/7/2024 15:04	59002	MIFF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 15:04	65601	QVIL_T2	26	38	12	0.38	0.42	0.04	0	0	0	0	0	0	0	0
7/7/2024 15:04	65602	QVIL_T2	4	7	3	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
7/7/2024 15:04	65604	QVIL_T2	1	16	15	0.3	0	-0.3	1.06	1.06	0	0	0	0	0	0
7/7/2024 15:04	65603	QVIL_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/7/2024 15:06	13103	NHAM_T2	18	14	-4	1.67	1.25	-0.42	0	0	0	0	0	0	0	0
7/7/2024 15:06	13105	NHAM_T2	39	42	3	1.3	1.22	-0.08	-2.51	-2.48	1	1	0	1200	1200	0
7/7/2024 15:06	13102	NHAM_T2	2	16	14	0.25	0.33	0.08	0	0	0	0	0	0	0	0
7/7/2024 15:08	27603	PIRI_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 15:08	27605	PIRI_T2	284	380	96	1.04	1.1	0.06	1.33	1.28	0	0	0	0	0	0
7/7/2024 15:08	56501	ROCK_T2	11	8	-3	0.65	0.78	0.13	0	0	0	0	0	0	0	0
7/7/2024 15:08	56504	ROCK_T2	62	51	-11	0.72	0.49	-0.23	0.05	0.07	0	0	0	0	0	0
7/7/2024 15:08	56503	ROCK_T2	2	1	-1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/7/2024 15:09	14802	TREI_T2	7	10	3	0.6	0.56	-0.04	0	0	0	0	0	0	0	0
7/7/2024 15:09	42701	AUGU_T1	74	91	17	2.11	2.16	0.05	0	0	2	2	0	1800	1800	0
7/7/2024 15:09	14801	TREI_T2	431	444	13	3.13	3.29	0.16	0	0	0	0	0	0	0	0
7/7/2024 15:10	43401	BENT_T1	8	12	4	0.51	1.97	1.46	0	0	0	0	0	0	0	0
7/7/2024 15:10	59101	WALK_T2	4	15	11	1.93	1.28	-0.65	0.34	0.57	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/7/2024 15:10	43402	BENT_T1	9	8	-1	0.59	0.55	-0.04	-0.63	-0.66	1	1	0	900	900	0
7/7/2024 15:11	59101	WALK_T2	4	15	11	1.93	1.28	-0.65	0.34	0.57	1	1	0	600	600	0
7/7/2024 15:11	43402	BENT_T1	9	8	-1	0.59	0.55	-0.04	-0.63	-0.66	1	1	0	900	900	0
7/7/2024 15:11	51804	EBEN_T2	0	5	5	0	0.3	0.3	-0.86	-0.9	2	2	0	1800	1800	0
7/7/2024 15:11	51802	EBEN_T2	16	15	-1	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
7/7/2024 15:11	43401	BENT_T1	8	12	4	0.51	1.97	1.46	0	0	0	0	0	0	0	0
7/7/2024 15:12	14801	TREI_T2	431	444	13	3.13	3.29	0.16	0	0	0	0	0	0	0	0
7/7/2024 15:12	14802	TREI_T2	7	10	3	0.6	0.56	-0.04	0	0	0	0	0	0	0	0
7/7/2024 15:13	43401	BENT_T1	8	12	4	0.51	1.97	1.46	0	0	0	0	0	0	0	0
7/7/2024 15:13	43402	BENT_T1	9	8	-1	0.59	0.55	-0.04	-0.63	-0.66	1	1	0	900	900	0
7/7/2024 15:15	42701	AUGU_T1	76	96	20	2.19	2.39	0.2	0	0	2	2	0	1800	1800	0
7/7/2024 15:16	56803	BENV_T1	10	12	2	1.9	2.89	0.99	-0.42	-0.46	1	1	0	600	600	0
7/7/2024 15:16	44302	BEAV_T2	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
7/7/2024 15:16	44301	BEAV_T2	10	84	74	0.77	0.59	-0.18	-0.19	-0.17	1	1	0	600	600	0
7/7/2024 15:16	56801	BENV_T1	9	14	5	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/7/2024 15:17	52001	LING_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 15:17	63601	LETO_T1	2	1	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/7/2024 15:17	63602	LETO_T1	1	2	1	0.3	0.1	-0.2	-0.78	-0.7	1	1	0	600	600	0
7/7/2024 15:17	44302	BEAV_T2	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
7/7/2024 15:17	44301	BEAV_T2	10	84	74	0.77	0.59	-0.18	-0.19	-0.17	1	1	0	600	600	0
7/7/2024 15:17	52003	LING_T1	2	7	5	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
7/7/2024 15:18	61303	EARL_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/7/2024 15:18	61301	EARL_T1	0	0	0	0	0	0	-0.49	-0.48	1	1	0	900	900	0
7/7/2024 15:18	63602	LETO_T1	1	2	1	0.3	0.1	-0.2	-0.78	-0.7	1	1	0	600	600	0
7/7/2024 15:18	63601	LETO_T1	2	1	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/7/2024 15:19	61303	EARL_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/7/2024 15:19	61301	EARL_T1	0	0	0	0	0	0	-0.49	-0.48	1	1	0	900	900	0
7/7/2024 15:20	64101	REFR_T1	12	19	7	1.87	1.69	-0.18	0.26	0.29	0	0	0	0	0	0
7/7/2024 15:21	66505	SMAN_T2	62	68	6	0.48	0.56	0.08	0.34	0.39	4	4	0	2300	2300	0
7/7/2024 15:21	66504	SMAN_T2	13	14	1	1.15	1.16	0.01	0	0	0	0	0	0	0	0
7/7/2024 15:21	66503	SMAN_T2	15	19	4	0.51	0.6	0.09	0	0	0	0	0	0	0	0
7/7/2024 15:22	54701	NEBL_T1	30	143	113	0.8	0.57	-0.23	0	0	1	1	0	600	600	0
7/7/2024 15:22	64101	REFR_T1	12	19	7	1.87	1.69	-0.18	0.29	0.29	0	0	0	0	0	0
7/7/2024 15:23	66504	SMAN_T2	13	14	1	1.15	1.16	0.01	0	0	0	0	0	0	0	0
7/7/2024 15:23	66505	SMAN_T2	62	68	6	0.48	0.56	0.08	0.34	0.39	4	4	0	2300	2300	0
7/7/2024 15:23	66503	SMAN_T2	15	19	4	0.51	0.6	0.09	0	0	0	0	0	0	0	0
7/7/2024 15:24	14801	TREI_T2	392	448	56	3.3	3.23	-0.07	0	0	0	0	0	0	0	0
7/7/2024 15:24	46101	MACI_T2	0	0	0	0	0	0	-0.43	-0.44	1	1	0	1200	1200	0
7/7/2024 15:24	14802	TREI_T2	9	14	5	0.69	0.56	-0.13	0	0	0	0	0	0	0	0
7/7/2024 15:25	43402	BENT_T1	7	9	2	0.49	0.6	0.11	-0.66	-0.65	1	1	0	900	900	0
7/7/2024 15:25	43401	BENT_T1	11	12	1	2.09	1.41	-0.68	0	0	0	0	0	0	0	0
7/7/2024 15:25	56503	ROCK_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/7/2024 15:25	56501	ROCK_T2	6	12	6	0.98	0.98	0	-1.9	-1.86	0	0	0	0	0	0
7/7/2024 15:25	56504	ROCK_T2	39	60	21	0.53	0.44	-0.09	0	0	0	0	0	0	0	0
7/7/2024 15:26	43402	BENT_T1	7	9	2	0.49	0.6	0.11	-0.66	-0.65	1	1	0	900	900	0
7/7/2024 15:26	59101	WALK_T2	6	16	10	1.28	0.86	-0.42	0.57	0.59	1	1	0	600	600	0
7/7/2024 15:26	43401	BENT_T1	11	12	1	2.09	1.41	-0.68	0	0	0	0	0	0	0	0
7/7/2024 15:27	59101	WALK_T2	6	16	10	1.28	0.86	-0.42	0.57	0.59	1	1	0	600	600	0
7/7/2024 15:28	43401	BENT_T1	11	12	1	2.09	1.41	-0.68	0	0	0	0	0	0	0	0
7/7/2024 15:28	43402	BENT_T1	7	9	2	0.49	0.6	0.11	-0.66	-0.65	1	1	0	900	900	0
7/7/2024 15:30	58803	COCO_T1	38	41	3	0.59	0.4	-0.19	-0.48	-0.38	1	1	0	600	600	0
7/7/2024 15:31	40101	HUNT_T2	267	372	105	0.67	0.79	0.12	-0.07	-0.05	0	0	0	0	0	0
7/7/2024 15:32	44301	BEAV_T2	19	107	88	0.61	0.85	0.24	-0.17	-0.16	1	1	0	600	600	0
7/7/2024 15:32	44302	BEAV_T2	1	1	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
7/7/2024 15:35	40101	HUNT_T2	267	372	105	0.67	0.79	0.12	-0.07	-0.05	0	0	0	0	0	0
7/7/2024 15:35	55003	NEWP_T2	0	1	1	0	0	0	-0.23	-0.2	0	0	0	0	0	0
7/7/2024 15:37	67703	WERN_T2	7	31	24	0.53	0.51	-0.02	-0.01	-0.01	1	1	0	900	900	0
7/7/2024 15:37	67702	WERN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/7/2024 15:39	67702	WERN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/7/2024 15:39	67703	WERN_T2	7	31	24	0.53	0.51	-0.02	-0.02	-0.02	2	2	0	1800	1800	0
7/7/2024 15:40	67703	WERN_T2	7	31	24	0.53	0.51	-0.02	-0.01	-0.01	1	1	0	900	900	0
7/7/2024 15:40	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 15:40	61703	ELIZ_T1	0	0	0	0	0	0	-2.12	-1.95	2	2	0	2100	2100	0
7/7/2024 15:40	61301	EARL_T1	0	0	0	0	0	0	-0.49	-0.48	1	1	0	900	900	0
7/7/2024 15:40	61701	ELIZ_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
7/7/2024 15:40	67702	WERN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/7/2024 15:41	61703	ELIZ_T1	0	0	0	0	0	0	-2.12	-1.95	2	2	0	2100	2100	0
7/7/2024 15:41	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 15:41	61701	ELIZ_T1	1	1	0	1.4	1.6	0.2	1.96	1.99	0	0	0	0	0	0
7/7/2024 15:41	61702	ELIZ_T2	0	5	5	0	0.6	0.6	-1.01	-0.95	2	2	0	1500	1500	0
7/7/2024 15:41	61301	EARL_T1	0	0	0	0	0	0	-0.49	-0.48	1	1	0	900	900	0
7/7/2024 15:42	46301	ROHR_T1	7	6	-1	0.79	0	-0.79	0	0	0	0	0	0	0	0
7/7/2024 15:42	61703	ELIZ_T1	0	0	0	0	0	0	-2.12	-1.95	2	2	0	2100	2100	0
7/7/2024 15:42	61701	ELIZ_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
7/7/2024 15:42	59101	WALK_T2	14	15	1	0.75	0.84	0.09	0.59	0.73	1	1	0	600	600	0
7/7/2024 15:42	46302	ROHR_T1	11	19	8	1.76	1.41	-0.35	0.52	0.51	0	0	0	0	0	0
7/7/2024 15:43	61701	ELIZ_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
7/7/2024 15:43	61703	ELIZ_T1	0	0	0	0	0	0	-2.12	-1.95	2	2	0	2100	2100	0
7/7/2024 15:45	45702	LIND_T2	1	1	0	0.2	0	-0.2	-0.95	-1.03	0	0	0	0	0	0
7/7/2024 15:45	20601	GRWO_T2	157	192	35	1.23	1.4	0.17	0.3	0.31	0	0	0	0	0	0
7/7/2024 15:46	61701	ELIZ_T1	1	1	0	1.4	1.8	0.4	0	0	0	0	0	0	0	0
7/7/2024 15:46	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/7/2024 15:46	61703	ELIZ_T1	0	0	0	0	0	0	-2.12	-1.95	2	2	0	2100	2100	0
7/7/2024 15:46	44301	BEAV_T2	84	108	24	0.91	0.86	-0.05	-0.16	-0.12	1	1	0	600	600	0
7/7/2024 15:47	59202	THOM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 15:47	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/7/2024 15:47	44301	BEAV_T2	84	108	24	0.91	0.86	-0.05	-0.16	-0.12	1	1	0	600	600	0
7/7/2024 15:48	52402	GRPA_T2	101	113	12	1.24	1.27	0.03	0	0	0	0	0	0	0	0
7/7/2024 15:48	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/7/2024 15:48	44301	BEAV_T2	84	108	24	0.91	0.86	-0.05	-0.16	-0.12	1	1	0	600	600	0
7/7/2024 15:48	52403	GRPA_T2	274	288	14	1.79	1.72	-0.07	0	0	0	0	0	0	0	0
7/7/2024 15:48	52401	GRPA_T2	131	163	32	0.97	0.82	-0.15	-1.28	-1.32	0	0	0	0	0	0
7/7/2024 15:48	52404	GRPA_T2	33	49	16	0.47	0.38	-0.09	0	0	0	0	0	0	0	0
7/7/2024 15:49	52403	GRPA_T2	274	288	14	1.79	1.72	-0.07	-0.36	-0.32	0	0	0	0	0	0
7/7/2024 15:49	52401	GRPA_T2	131	163	32	0.97	0.82	-0.15	0	0	0	0	0	0	0	0
7/7/2024 15:49	52402	GRPA_T2	101	113	12	1.24	1.27	0.03	0	0	0	0	0	0	0	0
7/7/2024 15:49	52404	GRPA_T2	33	49	16	0.47	0.38	-0.09	0	0	0	0	0	0	0	0
7/7/2024 15:51	52401	GRPA_T2	131	163	32	0.97	0.82	-0.15	0	0	0	0	0	0	0	0
7/7/2024 15:51	52404	GRPA_T2	33	49	16	0.47	0.38	-0.09	-0.4	-0.35	0	0	0	0	0	0
7/7/2024 15:51	52403	GRPA_T2	274	288	14	1.79	1.72	-0.07	0	0	0	0	0	0	0	0
7/7/2024 15:51	52402	GRPA_T2	101	113	12	1.24	1.27	0.03	0	0	0	0	0	0	0	0
7/7/2024 15:54	44202	POIN_T2	0	0	0	0	0	0	-0.37	-0.33	1	1	0	1200	1200	0
7/7/2024 15:54	56503	ROCK_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 15:54	56504	ROCK_T2	57	61	4	0.54	0.48	-0.06	0	0	0	0	0	0	0	0
7/7/2024 15:54	44203	POIN_T2	9	14	5	0.54	0.32	-0.22	0	0	0	0	0	0	0	0
7/7/2024 15:54	56501	ROCK_T2	10	13	3	1.14	0.73	-0.41	-1.85	-1.87	0	0	0	0	0	0
7/7/2024 15:55	43402	BENT_T1	9	17	8	0.66	0.44	-0.22	-0.64	-0.63	1	1	0	900	900	0
7/7/2024 15:55	43401	BENT_T1	10	31	21	1.46	1.26	-0.2	0	0	0	0	0	0	0	0
7/7/2024 15:56	14802	TREI_T2	14	25	11	0.74	0.58	-0.16	0	0	0	0	0	0	0	0
7/7/2024 15:56	14801	TREI_T2	439	448	9	3.45	3.41	-0.04	0	0	0	0	0	0	0	0
7/7/2024 15:57	43402	BENT_T1	9	17	8	0.66	0.44	-0.22	-0.64	-0.63	1	1	0	900	900	0
7/7/2024 15:57	43401	BENT_T1	10	31	21	1.46	1.26	-0.2	0	0	0	0	0	0	0	0
7/7/2024 15:58	67605	WARW_T1	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
7/7/2024 15:58	59101	WALK_T2	10	15	5	0.98	0.75	-0.23	0.73	0.27	1	2	1	600	1200	600
7/7/2024 15:58	43401	BENT_T1	10	31	21	1.46	1.26	-0.2	0	0	0	0	0	0	0	0
7/7/2024 15:58	43402	BENT_T1	9	17	8	0.66	0.44	-0.22	-0.64	-0.63	1	1	0	900	900	0
7/7/2024 16:02	61304	EARL_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 16:02	61301	EARL_T1	0	0	0	0	0	0	-0.48	-0.45	1	1	0	900	900	0
7/7/2024 16:03	61301	EARL_T1	0	0	0	0	0	0	-0.48	-0.45	1	1	0	900	900	0
7/7/2024 16:03	61304	EARL_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 16:05	66505	SMAN_T2	70	46	-24	0.4	0.31	-0.09	0	0	0	0	0	0	0	0
7/7/2024 16:05	41901	REED_T1	2	3	1	0.5	1	0.5	0	0	0	0	0	0	0	0
7/7/2024 16:05	58705	ROSE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 16:05	66504	SMAN_T2	20	11	-9	0.95	0.93	-0.02	0	0	0	0	0	0	0	0
7/7/2024 16:05	13904	SEID_T1	123	163	40	1.33	1.22	-0.11	-0.31	-0.31	0	0	0	0	0	0
7/7/2024 16:05	66503	SMAN_T2	25	18	-7	0.64	0.56	-0.08	1.25	1.31	0	0	0	0	0	0
7/7/2024 16:05	13902	SEID_T1	23	29	6	0.76	0.78	0.02	0	0	0	0	0	0	0	0
7/7/2024 16:05	58706	ROSE_T2	12	7	-5	0.62	1.4	0.78	0	0	0	0	0	0	0	0
7/7/2024 16:05	58702	ROSE_T2	6	9	3	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
7/7/2024 16:05	13903	SEID_T1	238	324	86	1.03	1.1	0.07	0	0	0	0	0	0	0	0
7/7/2024 16:05	58701	ROSE_T2	18	29	11	0.42	0.37	-0.05	-1.24	-1.28	1	1	0	600	600	0
7/7/2024 16:05	41902	REED_T1	179	152	-27	0.7	0.55	-0.15	0.5	0.53	0	0	0	0	0	0
7/7/2024 16:05	13905	SEID_T1	0	2	2	0	1.25	1.25	0	0	0	0	0	0	0	0
7/7/2024 16:06	13904	SEID_T1	123	163	40	1.33	1.22	-0.11	-0.31	-0.32	0	0	0	0	0	0
7/7/2024 16:06	13903	SEID_T1	238	324	86	1.03	1.1	0.07	0	0	0	0	0	0	0	0
7/7/2024 16:06	13905	SEID_T1	0	2	2	0	1.25	1.25	0	0	0	0	0	0	0	0
7/7/2024 16:06	13902	SEID_T1	23	29	6	0.76	0.78	0.02	0	0	0	0	0	0	0	0
7/7/2024 16:08	66505	SMAN_T2	70	46	-24	0.4	0.31	-0.09	0.48	0.31	4	4	0	2300	2300	0
7/7/2024 16:08	66503	SMAN_T2	25	18	-7	0.64	0.56	-0.08	0	0	0	0	0	0	0	0
7/7/2024 16:08	66504	SMAN_T2	20	11	-9	0.95	0.93	-0.02	0	0	0	0	0	0	0	0
7/7/2024 16:10	41901	REED_T1	2	3	1	0.5	1	0.5	0	0	0	0	0	0	0	0
7/7/2024 16:10	41902	REED_T1	179	152	-27	0.7	0.55	-0.15	0.53	0.54	0	0	0	0	0	0
7/7/2024 16:12	51602	DUKE_T2	0	0	0	0	0	0	-0.62	-0.58	1	1	0	1200	1200	0
7/7/2024 16:12	51604	DUKE_T2	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
7/7/2024 16:12	61701	ELIZ_T1	1	2	1	1.6	1.8	0.2	1.03	1.04	0	0	0	0	0	0
7/7/2024 16:13	61701	ELIZ_T1	1	2	1	1.6	1.8	0.2	1.03	1.04	0	0	0	0	0	0
7/7/2024 16:14	56801	BENV_T1	26	53	27	0.45	0.58	0.13	-0.4	-0.35	2	2	0	1200	1200	0
7/7/2024 16:14	56803	BENV_T1	10	14	4	3.51	2.32	-1.19	0	0	0	0	0	0	0	0
7/7/2024 16:15	51604	DUKE_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/7/2024 16:15	51602	DUKE_T2	0	0	0	0	0	0	-1.87	-1.74	3	3	0	3600	3600	0
7/7/2024 16:17	64301	LINC_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/7/2024 16:17	64305	LINC_T1	1	1	0	0.7	1.1	0.4	-0.52	-0.46	0	0	0	0	0	0
7/7/2024 16:17	46101	MACI_T2	0	0	0	0	0	0	-0.44	-0.44	1	1	0	1200	1200	0
7/7/2024 16:20	52404	GRPA_T2	37	21	-16	0.41	0.24	-0.17	0	0	0	0	0	0	0	0
7/7/2024 16:20	52402	GRPA_T2	100	104	4	1.27	0.99	-0.28	0	0	0	0	0	0	0	0
7/7/2024 16:20	52401	GRPA_T2	143	117	-26	1.1	0.77	-0.33	0	0	0	0	0	0	0	0
7/7/2024 16:20	52403	GRPA_T2	262	279	17	1.87	1.63	-0.24	-0.3	-0.28	0	0	0	0	0	0
7/7/2024 16:20	64101	REFR_T1	19	18	-1	2.84	3.04	0.2	0.31	0.32	0	0	0	0	0	0
7/7/2024 16:21	57401	SPAN_T1	69	4	-65	0.47	0.1	-0.37	-1.21	-1.98	2	3	1	1500	2400	900
7/7/2024 16:21	57403	SPAN_T1	4	3	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
7/7/2024 16:22	67802	WLAN_T1	1	4	3	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/7/2024 16:22	67804	WLAN_T1	16	12	-4	2.18	3.16	0.98	0	0	0	0	0	0	0	0
7/7/2024 16:22	67805	WLAN_T1	10	16	6	0.37	0.63	0.26	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/7/2024 16:22	67801	WLAN_T1	113	126	13	0.88	0.78	-0.1	0	0	0	0	0	0	0	0
7/7/2024 16:22	67803	WLAN_T1	22	26	4	0.59	0.55	-0.04	-0.5	-0.48	0	0	0	0	0	0
7/7/2024 16:23	67801	WLAN_T1	113	126	13	0.88	0.78	-0.1	0	0	0	0	0	0	0	0
7/7/2024 16:23	66703	STRA_T1	79	93	14	0.53	0.55	0.02	-1.44	-1.46	0	0	0	0	0	0
7/7/2024 16:23	57403	SPAN_T1	4	3	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
7/7/2024 16:23	57401	SPAN_T1	69	4	-65	0.47	0.1	-0.37	-5.93	-5.68	9	9	0	7200	7200	0
7/7/2024 16:23	67803	WLAN_T1	22	26	4	0.59	0.55	-0.04	0	0	0	0	0	0	0	0
7/7/2024 16:23	67802	WLAN_T1	1	4	3	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/7/2024 16:23	66701	STRA_T1	30	58	28	1.17	0.73	-0.44	0	0	0	0	0	0	0	0
7/7/2024 16:23	67804	WLAN_T1	16	12	-4	2.18	3.16	0.98	-1.13	-1.12	0	0	0	0	0	0
7/7/2024 16:23	67805	WLAN_T1	10	16	6	0.37	0.63	0.26	0	0	0	0	0	0	0	0
7/7/2024 16:24	61304	EARL_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 16:24	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 16:24	57401	SPAN_T1	69	4	-65	0.47	0.1	-0.37	-1.98	-1.89	3	3	0	2400	2400	0
7/7/2024 16:24	61301	EARL_T1	0	0	0	0	0	0	-0.48	-1.14	1	2	1	900	1800	900
7/7/2024 16:24	57403	SPAN_T1	4	3	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
7/7/2024 16:25	61304	EARL_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 16:25	61301	EARL_T1	0	0	0	0	0	0	-0.48	-1.14	1	2	1	900	1800	900
7/7/2024 16:25	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 16:26	64101	REFR_T1	19	18	-1	2.84	3.04	0.2	0.32	0.32	0	0	0	0	0	0
7/7/2024 16:26	57403	SPAN_T1	4	3	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
7/7/2024 16:26	57401	SPAN_T1	69	4	-65	0.47	0.1	-0.37	-1.98	-1.89	3	3	0	2400	2400	0
7/7/2024 16:30	61303	EARL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/7/2024 16:30	61304	EARL_T1	3	0	-3	0.4	0	-0.4	0.45	0.43	1	1	0	600	600	0
7/7/2024 16:32	63401	HONY_T1	0	0	0	0	0	0	0.07	0.15	1	1	0	600	600	0
7/7/2024 16:33	63403	HONY_T2	47	55	8	0.39	0.48	0.09	-0.63	-0.64	0	0	0	0	0	0
7/7/2024 16:34	65601	QVIL_T2	45	97	52	0.48	0.94	0.46	0	0	0	0	0	0	0	0
7/7/2024 16:34	65603	QVIL_T2	1	1	0	0.3	0	-0.3	-0.7	-0.73	0	0	0	0	0	0
7/7/2024 16:34	65604	QVIL_T2	4	6	2	0.38	0.4	0.02	0	0	0	0	0	0	0	0
7/7/2024 16:34	65602	QVIL_T2	4	5	1	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
7/7/2024 16:36	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 16:36	47403	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/7/2024 16:36	47401	PENS_T1	9	11	2	0.76	0.9	0.14	0.6	0.6	0	0	0	0	0	0
7/7/2024 16:37	40603	PIGR_T1	55	61	6	1.45	1.32	-0.13	0	0	0	0	0	0	0	0
7/7/2024 16:37	40601	PIGR_T1	16	25	9	0.73	0.61	-0.12	0	0	0	0	0	0	0	0
7/7/2024 16:37	40602	PIGR_T1	18	32	14	0.54	0.54	0	-1.52	-1.51	2	2	0	1200	1200	0
7/7/2024 16:40	49804	UNIV_T1	7	11	4	0.49	0.27	-0.22	0	0	0	0	0	0	0	0
7/7/2024 16:40	49803	UNIV_T1	0	5	5	0	0.2	0.2	-1.33	-1.31	0	0	0	0	0	0
7/7/2024 16:41	45302	WBER_T2	41	44	3	1.03	1.22	0.19	2.98	2.95	0	0	0	0	0	0
7/7/2024 16:41	45303	WBER_T2	4	4	0	0.28	0.5	0.22	0	0	0	0	0	0	0	0
7/7/2024 16:42	59101	WALK_T2	48	45	-3	0.59	0.61	0.02	0.35	0.72	3	3	0	1800	1800	0
7/7/2024 16:46	61301	EARL_T1	0	0	0	0	0	0	-1.14	-1.14	2	2	0	1800	1800	0
7/7/2024 16:46	61303	EARL_T1	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/7/2024 16:47	61301	EARL_T1	0	0	0	0	0	0	-1.14	-1.14	2	2	0	1800	1800	0
7/7/2024 16:47	61303	EARL_T1	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/7/2024 16:48	47001	HUGH_T2	11	9	-2	2.4	2.49	0.09	-0.7	-0.73	1	1	0	900	900	0
7/7/2024 16:48	47002	HUGH_T2	4	10	6	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
7/7/2024 16:49	52002	LING_T2	58	53	-5	0.48	0	-0.48	0	0	0	0	0	0	0	0
7/7/2024 16:49	52004	LING_T2	6	14	8	0.73	0.63	-0.1	0.33	0.33	0	0	0	0	0	0
7/7/2024 16:49	52006	LING_T2	8	8	0	0.93	2.2	1.27	0	0	0	0	0	0	0	0
7/7/2024 16:49	12302	LANA_T2	162	175	13	0.64	0.55	-0.09	-1.27	-1.26	3	3	0	2700	2700	0
7/7/2024 16:49	12305	LANA_T2	80	98	18	1.1	0.99	-0.11	0	0	0	0	0	0	0	0
7/7/2024 16:49	12304	LANA_T2	346	360	14	1.65	1.68	0.03	0	0	0	0	0	0	0	0
7/7/2024 16:49	12301	LANA_T2	21	57	36	0.6	0.47	-0.13	0	0	0	0	0	0	0	0
7/7/2024 16:52	65901	SAKR_T2	20	17	-3	0.85	1.02	0.17	-0.3	-0.25	2	2	0	1500	1500	0
7/7/2024 16:53	43304	WATS_T2	49	82	33	0.63	0.56	-0.07	0	0	0	0	0	0	0	0
7/7/2024 16:53	43301	WATS_T2	17	25	8	0.85	0.48	-0.37	0	0	0	0	0	0	0	0
7/7/2024 16:53	43302	WATS_T2	0	0	0	0	0	0	-0.71	-0.71	2	2	0	1800	1800	0
7/7/2024 16:54	55101	WERT_T1	0	2	2	0	0.3	0.3	-2.36	-2.45	4	4	0	3300	3300	0
7/7/2024 16:54	55105	WERT_T1	8	10	2	0.98	0.8	-0.18	0	0	0	0	0	0	0	0
7/7/2024 16:54	55103	WERT_T1	1	2	1	1.1	1	-0.1	0	0	0	0	0	0	0	0
7/7/2024 16:56	65901	SAKR_T2	20	17	-3	0.85	1.02	0.17	-0.3	-0.25	2	2	0	1500	1500	0
7/7/2024 16:58	47401	PENS_T1	6	11	5	0.77	0.82	0.05	0.6	0.68	0	0	0	0	0	0
7/7/2024 16:58	47403	PENS_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/7/2024 16:58	55105	WERT_T1	8	10	2	0.98	0.8	-0.18	0	0	0	0	0	0	0	0
7/7/2024 16:58	55101	WERT_T1	0	2	2	0	0.3	0.3	-2.36	-2.45	4	4	0	3300	3300	0
7/7/2024 16:58	55103	WERT_T1	1	2	1	1.1	1	-0.1	0	0	0	0	0	0	0	0
7/7/2024 16:58	47402	PENS_T1	0	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0
7/7/2024 17:00	53902	HALI_T2	2	3	1	1.75	3	1.25	-0.48	-0.48	0	0	0	0	0	0
7/7/2024 17:01	53902	HALI_T2	2	3	1	1.75	3	1.25	-0.48	-0.48	0	0	0	0	0	0
7/7/2024 17:01	58803	COCO_T1	7	5	-2	0.37	0	-0.37	-0.43	-0.31	1	1	0	600	600	0
7/7/2024 17:02	53902	HALI_T2	2	3	1	1.75	3	1.25	-0.96	-0.95	0	0	0	0	0	0
7/7/2024 17:03	53902	HALI_T2	2	3	1	1.75	3	1.25	-0.48	-0.48	0	0	0	0	0	0
7/7/2024 17:04	43201	MVIL_T2	6	9	3	0.43	0.8	0.37	0	0	0	0	0	0	0	0
7/7/2024 17:04	43202	MVIL_T2	0	2	2	0	0.1	0.1	-0.37	-0.37	0	0	0	0	0	0
7/7/2024 17:05	13201	PALM_T1	97	125	28	1.44	1.23	-0.21	-1.13	-1.01	1	1	0	1200	1200	0
7/7/2024 17:06	43202	MVIL_T2	0	2	2	0	0.1	0.1	-0.37	-0.38	0	0	0	0	0	0
7/7/2024 17:06	64101	REFR_T1	12	12	0	1.53	0.8	-0.73	-0.25	-0.23	0	0	0	0	0	0
7/7/2024 17:06	65503	MOID_T2	2	8	6	0.5	0.2	-0.3	0.47	0.56	2	2	0	1800	1800	0
7/7/2024 17:06	43201	MVIL_T2	6	9	3	0.43	0.8	0.37	0	0	0	0	0	0	0	0
7/7/2024 17:07	64101	REFR_T1	12	12	0	1.53	0.8	-0.73	-0.25	-0.23	0	0	0	0	0	0
7/7/2024 17:08	43304	WATS_T2	76	100	24	0.63	0.58	-0.05	-0.85	-0.86	1	1	0	600	600	0
7/7/2024 17:08	43301	WATS_T2	20	26	6	0.6	0.56	-0.04	0	0	0	0	0	0	0	0
7/7/2024 17:11	43301	WATS_T2	20	26	6	0.6	0.56	-0.04	0	0	0	0	0	0	0	0
7/7/2024 17:11	43304	WATS_T2	76	100	24	0.63	0.58	-0.05	-0.85	-0.86	1	1	0	600	600	0
7/7/2024 17:13	47001	HUGH_T2	8	9	1	1.96	2.94	0.98	-0.97	-0.99	1	1	0	900	900	0
7/7/2024 17:13	47002	HUGH_T2	7	8	1	0.3	0.38	0.08	0	0	0	0	0	0	0	0
7/7/2024 17:14	63401	HONY_T1	0	0	0	0	0	0	0.38	0.35	1	1	0	600	600	0
7/7/2024 17:14	63404	HONY_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 17:19	42903	MIDD_T2	5	12	7	0.76	0.47	-0.29	0	0	0	0	0	0	0	0
7/7/2024 17:19	42902	MIDD_T2	52	52	0	3	3.34	0.34	-0.04	-0.02	0	0	0	0	0	0
7/7/2024 17:19	42901	MIDD_T2	7	12	5	0.7	2.23	1.53	0	0	0	0	0	0	0	0
7/7/2024 17:22	64101	REFR_T1	11	8	-3	0.76	0.65	-0.11	-0.23	-0.24	0	0	0	0	0	0
7/7/2024 17:24	60301	TWVA_T2	4	6	2	0.28	0.53	0.25	-1.93	-1.91	2	2	0	1800	1800	0
7/7/2024 17:33	63404	HONY_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 17:33	63401	HONY_T1	0	0	0	0	0	0	0.35	0.24	1	1	0	600	600	0
7/7/2024 17:34	57303	MOAL_T2	1	1	0	9.7	9.8	0.1	0	0	0	0	0	0	0	0
7/7/2024 17:34	57301	MOAL_T2	2	6	4	2.85	3.9	1.05	0	0	0	0	0	0	0	0
7/7/2024 17:34	57304	MOAL_T2	70	76	6	1.48	1.63	0.15	-0.45	-0.29	0	0	0	0	0	0
7/7/2024 17:34	57302	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 17:34	40101	HUNT_T2	287	310	23	0.84	0.77	-0.07	-0.64	-0.64	0	0	0	0	0	0
7/7/2024 17:35	61202	REIN_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/7/2024 17:37	61404	SLIT_T1	2	2	0	3.4	0	-3.4	0	0.01	0	0	0	0	0	0
7/7/2024 17:37	61402	SLIT_T1	20	22	2	1.13	0.69	-0.44	0	0	0	0	0	0	0	0
7/7/2024 17:37	61401	SLIT_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/7/2024 17:38	64101	REFR_T1	6	9	3	0.7	0.7	0	-0.24	-0.24	0	0	0	0	0	0
7/7/2024 17:42	62102	ELAN_T1	2	10	8	0.7	0.73	0.03	0	0	0	0	0	0	0	0
7/7/2024 17:42	62104	ELAN_T1	2	3	1	0.55	0	-0.55	0.62	0.61	2	2	0	1500	1500	0
7/7/2024 17:42	62105	ELAN_T1	26	24	-2	1.71	0.5	-1.21	0	0	0	0	0	0	0	0
7/7/2024 17:44	63404	HONY_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 17:44	63401	HONY_T1	0	0	0	0	0	0	0.24	0.28	1	1	0	600	600	0
7/7/2024 17:48	12704	MACU_T1	182	178	-4	0.58	0.7	0.12	-0.2	-0.2	1	1	0	600	600	0
7/7/2024 17:48	12701	MACU_T1	298	321	23	1.18	1.02	-0.16	0	0	0	0	0	0	0	0
7/7/2024 17:49	57302	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 17:49	57304	MOAL_T2	73	73	0	1.76	1.53	-0.23	0	0	0	0	0	0	0	0
7/7/2024 17:49	57301	MOAL_T2	3	5	2	2.2	1.6	-0.6	1	1	0	0	0	0	0	0
7/7/2024 17:49	57303	MOAL_T2	1	2	1	9.8	9.5	-0.3	0	0	0	0	0	0	0	0
7/7/2024 17:50	64302	LINC_T2	310	333	23	0.76	0.63	-0.13	1.65	1.69	0	0	0	0	0	0
7/7/2024 17:53	61303	EARL_T1	2	3	1	1.4	1.6	0.2	0	0	0	0	0	0	0	0
7/7/2024 17:53	42903	MIDD_T2	8	10	2	0.63	0.44	-0.19	0	0	0	0	0	0	0	0
7/7/2024 17:53	42902	MIDD_T2	52	52	0	3.85	3.88	0.03	-0.04	-0.1	0	0	0	0	0	0
7/7/2024 17:53	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.13	2	2	0	1800	1800	0
7/7/2024 17:53	42901	MIDD_T2	12	6	-6	0.94	1.3	0.36	0	0	0	0	0	0	0	0
7/7/2024 17:53	64101	REFR_T1	8	6	-2	0.66	0.33	-0.33	-0.24	-0.27	0	0	0	0	0	0
7/7/2024 17:53	61302	EARL_T1	1	2	1	2.1	2.4	0.3	0	0	0	0	0	0	0	0
7/7/2024 17:54	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.13	2	2	0	1800	1800	0
7/7/2024 17:54	61303	EARL_T1	2	3	1	1.4	1.6	0.2	0	0	0	0	0	0	0	0
7/7/2024 17:54	61302	EARL_T1	1	2	1	2.1	2.4	0.3	0	0	0	0	0	0	0	0
7/7/2024 17:56	15102	UPHA_T1	5	5	0	0.74	0.7	-0.04	0	0	0	0	0	0	0	0
7/7/2024 17:56	15101	UPHA_T1	0	0	0	0	0	0	-0.08	-0.1	1	1	0	900	900	0
7/7/2024 17:58	11407	FARM_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/7/2024 17:58	11402	FARM_T1	17	35	18	0.85	0.88	0.03	0	0	0	0	0	0	0	0
7/7/2024 17:58	11406	FARM_T1	15	29	14	1.07	1.01	-0.06	0	0	0	0	0	0	0	0
7/7/2024 17:58	61701	ELIZ_T1	2	1	-1	0.4	1.1	0.7	0	0	0	0	0	0	0	0
7/7/2024 17:58	61703	ELIZ_T1	25	37	12	0.37	0.3	-0.07	-1.75	-1.98	2	2	0	2100	2100	0
7/7/2024 17:58	11405	FARM_T1	111	159	48	1.3	1.13	-0.17	-0.17	-0.22	1	1	0	1200	1200	0
7/7/2024 18:02	52402	GRPA_T2	103	97	-6	1.41	0.82	-0.59	0	0	0	0	0	0	0	0
7/7/2024 18:02	52404	GRPA_T2	91	81	-10	0.66	0.45	-0.21	0	0	0	0	0	0	0	0
7/7/2024 18:02	52403	GRPA_T2	148	141	-7	2.53	2.08	-0.45	-0.74	-0.76	0	0	0	0	0	0
7/7/2024 18:02	52401	GRPA_T2	131	149	18	1.04	0.52	-0.52	0	0	0	0	0	0	0	0
7/7/2024 18:02	45801	HEGI_T1	2	0	-2	0.5	0	-0.5	-0.21	-0.21	1	1	0	900	900	0
7/7/2024 18:03	45801	HEGI_T1	2	0	-2	0.5	0	-0.5	-0.21	-0.21	1	1	0	900	900	0
7/7/2024 18:04	55001	NEWP_T1	83	57	-26	0.71	0.53	-0.18	-0.03	-0.03	0	0	0	0	0	0
7/7/2024 18:05	41903	REED_T1	1	1	0	0.1	0	-0.1	0.28	0.27	1	1	0	1200	1200	0
7/7/2024 18:05	41901	REED_T1	2	9	7	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
7/7/2024 18:05	55001	NEWP_T1	83	57	-26	0.71	0.53	-0.18	-0.03	-0.03	0	0	0	0	0	0
7/7/2024 18:05	41902	REED_T1	228	233	5	1.26	0.9	-0.36	0	0	0	0	0	0	0	0
7/7/2024 18:08	43301	WATS_T2	32	23	-9	0.56	0.81	0.25	0	0	0	0	0	0	0	0
7/7/2024 18:08	43304	WATS_T2	108	119	11	0.66	0.72	0.06	-0.86	-0.9	1	1	0	600	600	0
7/7/2024 18:09	64101	REFR_T1	6	11	5	0.6	0.33	-0.27	-0.27	-0.24	0	0	0	0	0	0
7/7/2024 18:11	61303	EARL_T1	2	4	2	2.85	1.27	-1.58	0.48	0.52	0	0	0	0	0	0
7/7/2024 18:11	61302	EARL_T1	1	2	1	2.4	1.7	-0.7	0	0	0	0	0	0	0	0
7/7/2024 18:12	14402	SSLA_T1	18	11	-7	1.39	1.87	0.48	0	0	0	0	0	0	0	0
7/7/2024 18:12	14404	SSLA_T1	252	194	-58	1.23	1	-0.23	0	0	0	0	0	0	0	0
7/7/2024 18:12	14401	SSLA_T1	11	8	-3	0.85	1.53	0.68	-0.91	-0.93	2	2	0	1800	1800	0
7/7/2024 18:12	14403	SSLA_T1	32	34	2	1.28	0.86	-0.42	0	0	0	0	0	0	0	0
7/7/2024 18:13	60101	COCA_T1	0	0	0	0	0	0	-0.46	-0.52	2	2	0	1800	1800	0
7/7/2024 18:14	60101	COCA_T1	0	0	0	0	0	0	-0.46	-0.52	2	2	0	1800	1800	0
7/7/2024 18:14	22002	BOHE_T1	0	0	0	0	0	0	0.94	0.85	0	0	0	0	0	0
7/7/2024 18:14	12001	HATF_T1	11	13	2	0.4	0.78	0.38	0	0	0	0	0	0	0	0
7/7/2024 18:14	12002	HATF_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
7/7/2024 18:14	12006	HATF_T1	0	0	0	0	0	0	0.81	0.84	1	1	0	1200	1200	0
7/7/2024 18:14	12003	HATF_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/7/2024 18:15	11803	FRAN_T2	159	142	-17	0.94	0.76	-0.18	0	0	0	0	0	0	0	0
7/7/2024 18:15	11801	FRAN_T2	31	24	-7	0.76	0.32	-0.44	-0.47	-0.59	0	0	0	0	0	0
7/7/2024 18:16	61303	EARL_T1	3	5	2	1.33	1.17	-0.16	0.48	0.52	0	0	0	0	0	0
7/7/2024 18:16	61302	EARL_T1	2	2	0	2.35	1.8	-0.55	0	0	0	0	0	0	0	0
7/7/2024 18:17	63201	MGTN_T2	11	9	-2	0.97	1.07	0.1	0.84	0.87	1	1	0	600	600	0
7/7/2024 18:19	54506	ENOL_T2	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/7/2024 18:19	54502	ENOL_T2	3	1	-2	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
7/7/2024 18:19	54501	ENOL_T2	0	0	0	0	0	0	-0.65	-0.64	2	2	0	1500	1500	0
7/7/2024 18:19	54503	ENOL_T2	2	3	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/7/2024 18:24	58706	ROSE_T2	10	14	4	0.72	0.54	-0.18	0.23	0.26	1	1	0	600	600	0
7/7/2024 18:24	58701	ROSE_T2	13	19	6	0.43	0.27	-0.16	0	0	0	0	0	0	0	0
7/7/2024 18:24	56501	ROCK_T2	14	14	0	1.17	0.98	-0.19	0	0	0	0	0	0	0	0
7/7/2024 18:24	56504	ROCK_T2	99	87	-12	0.68	0.62	-0.06	0.1	0.14	0	0	0	0	0	0
7/7/2024 18:24	56503	ROCK_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 18:24	58705	ROSE_T2	2	4	2	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/7/2024 18:24	58702	ROSE_T2	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/7/2024 18:27	11001	EGRE_T1	2	1	-1	0.2	0	-0.2	-0.29	-0.3	1	1	0	1200	1200	0
7/7/2024 18:27	63304	GREE_T1	0	0	0	0	0	0	-3.06	-3.05	1	1	0	1200	1200	0
7/7/2024 18:29	11407	FARM_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 18:29	11402	FARM_T1	34	34	0	1.01	0.63	-0.38	0	0	0	0	0	0	0	0
7/7/2024 18:29	11406	FARM_T1	18	18	0	1.42	0.59	-0.83	0	0	0	0	0	0	0	0
7/7/2024 18:29	11405	FARM_T1	134	152	18	1.22	0.97	-0.25	-0.18	-0.27	1	1	0	1200	1200	0
7/7/2024 18:31	63304	GREE_T1	0	0	0	0	0	0	-3.06	-3.05	1	1	0	1200	1200	0
7/7/2024 18:33	45801	HEGI_T1	0	0	0	0	0	0	-0.24	-0.25	1	1	0	900	900	0
7/7/2024 18:33	59002	MIFF_T1	2	5	3	0.8	0.44	-0.36	0	0	0	0	0	0	0	0
7/7/2024 18:33	59003	MIFF_T1	1	1	0	0.8	0.1	-0.7	-0.57	-0.6	0	0	0	0	0	0
7/7/2024 18:34	12301	LANA_T2	54	37	-17	0.66	0.55	-0.11	0	0	0	0	0	0	0	0
7/7/2024 18:34	12305	LANA_T2	69	50	-19	0.85	0.95	0.1	0	0	0	0	0	0	0	0
7/7/2024 18:34	12304	LANA_T2	306	265	-41	1.57	1.21	-0.36	0.67	0.61	1	1	0	1200	1200	0
7/7/2024 18:34	12302	LANA_T2	171	137	-34	0.66	0.46	-0.2	0	0	0	0	0	0	0	0
7/7/2024 18:35	66503	SMAN_T2	26	22	-4	1.13	0.7	-0.43	0	0	0	0	0	0	0	0
7/7/2024 18:35	66504	SMAN_T2	42	13	-29	0.72	0.32	-0.4	0.24	0.17	0	0	0	0	0	0
7/7/2024 18:35	66505	SMAN_T2	219	217	-2	0.67	0.55	-0.12	0	0	0	0	0	0	0	0
7/7/2024 18:38	61301	EARL_T1	0	0	0	0	0	0	-1.14	-1.13	2	2	0	1800	1800	0
7/7/2024 18:38	61302	EARL_T1	2	2	0	2.3	1.6	-0.7	0	0	0	0	0	0	0	0
7/7/2024 18:38	42701	AUGU_T1	114	111	-3	2.82	2.6	-0.22	0	0	2	2	0	1800	1800	0
7/7/2024 18:38	61303	EARL_T1	4	4	0	1.25	0.67	-0.58	0	0	0	0	0	0	0	0
7/7/2024 18:39	61302	EARL_T1	2	2	0	2.3	1.6	-0.7	0	0	0	0	0	0	0	0
7/7/2024 18:39	61301	EARL_T1	0	0	0	0	0	0	-1.14	-1.13	2	2	0	1800	1800	0
7/7/2024 18:39	61303	EARL_T1	4	4	0	1.25	0.67	-0.58	0	0	0	0	0	0	0	0
7/7/2024 18:41	47402	PENS_T1	7	6	-1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/7/2024 18:41	47401	PENS_T1	9	17	8	1.17	0.96	-0.21	0.33	0.33	0	0	0	0	0	0
7/7/2024 18:52	49803	UNIV_T1	13	22	9	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
7/7/2024 18:52	49804	UNIV_T1	13	16	3	0.65	0.45	-0.2	0.49	0.48	0	0	0	0	0	0
7/7/2024 18:54	40302	TAMA_T3	0	2	2	0	0.3	0.3	-2.23	-2.26	1	1	0	1200	1200	0
7/7/2024 18:54	40301	TAMA_T3	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/7/2024 18:58	61702	ELIZ_T2	12	4	-8	0.33	0.2	-0.13	-1.02	-0.96	2	2	0	1500	1500	0
7/7/2024 18:58	61704	ELIZ_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 19:01	61301	EARL_T1	0	0	0	0	0	0	-1.13	-1.16	2	2	0	1800	1800	0
7/7/2024 19:01	61302	EARL_T1	2	0	-2	1.6	0	-1.6	0	0	0	0	0	0	0	0
7/7/2024 19:01	61303	EARL_T1	3	2	-1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
7/7/2024 19:02	61302	EARL_T1	2	0	-2	1.6	0	-1.6	0	0	0	0	0	0	0	0
7/7/2024 19:02	61303	EARL_T1	3	2	-1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
7/7/2024 19:02	61301	EARL_T1	0	0	0	0	0	0	-1.13	-1.16	2	2	0	1800	1800	0
7/7/2024 19:04	40601	PIGR_T1	20	21	1	0.75	0.54	-0.21	0	0	0	0	0	0	0	0
7/7/2024 19:04	46102	MACI_T1	0	0	0	0	0	0	1.03	1.04	0	0	0	0	0	0
7/7/2024 19:04	40603	PIGR_T1	63	48	-15	1.46	1.14	-0.32	0	0	0	0	0	0	0	0
7/7/2024 19:04	40602	PIGR_T1	50	43	-7	0.74	0.51	-0.23	-0.72	-0.66	1	1	0	600	600	0
7/7/2024 19:07	40603	PIGR_T1	63	48	-15	1.46	1.14	-0.32	0	0	0	0	0	0	0	0
7/7/2024 19:07	40601	PIGR_T1	20	21	1	0.75	0.54	-0.21	0	0	0	0	0	0	0	0
7/7/2024 19:07	40602	PIGR_T1	50	43	-7	0.74	0.51	-0.23	-0.66	-0.7	1	1	0	600	600	0
7/7/2024 19:09	64302	UINC_T2	82	38	-44	0.45	0.45	0	1	1.57	0	0	0	0	0	0
7/7/2024 19:11	57104	SPHI_T2	0	0	0	0	0	0	-1.64	-1.65	1	1	0	900	900	0
7/7/2024 19:11	57106	SPHI_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
7/7/2024 19:13	57106	SPHI_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
7/7/2024 19:13	57104	SPHI_T2	0	0	0	0	0	0	-1.64	-1.65	1	1	0	900	900	0
7/7/2024 19:21	52402	GRPA_T2	26	25	-1	0.68	0.9	0.22	0	0	0	0	0	0	0	0
7/7/2024 19:21	52401	GRPA_T2	79	46	-33	0.49	0.4	-0.09	0	0	0	0	0	0	0	0
7/7/2024 19:21	52403	GRPA_T2	194	208	14	1.92	1.37	-0.55	-0.45	-0.52	0	0	0	0	0	0
7/7/2024 19:21	52404	GRPA_T2	18	10	-8	0.29	1	0.71	0	0	0	0	0	0	0	0
7/7/2024 19:23	64101	REFR_T1	0	1	1	0	0	0	0.3	0.27	0	0	0	0	0	0
7/7/2024 19:24	61301	EARL_T1	0	0	0	0	0	0	-1.14	-1.17	2	2	0	1800	1800	0
7/7/2024 19:24	24902	WHHA_T1	3	2	-1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
7/7/2024 19:24	24901	WHHA_T1	5	5	0	0.38	0.4	0.02	-0.19	-0.19	0	0	0	0	0	0
7/7/2024 19:24	59101	WALK_T2	27	4	-23	0.5	0.5	0	0.68	0.47	3	3	0	1800	1800	0
7/7/2024 19:24	61303	EARL_T1	2	1	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/7/2024 19:25	61303	EARL_T1	2	1	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/7/2024 19:25	61301	EARL_T1	0	0	0	0	0	0	-1.14	-1.17	2	2	0	1800	1800	0
7/7/2024 19:39	65603	QVIL_T2	0	0	0	0	0	0	-0.2	-0.27	0	0	0	0	0	0
7/7/2024 19:41	61701	ELIZ_T1	1	1	0	1.8	1.9	0.1	0.92	0.9	0	0	0	0	0	0
7/7/2024 19:45	57106	SPHI_T2	3	3	0	0.6	0.83	0.23	0	0	0	0	0	0	0	0
7/7/2024 19:45	57103	SPHI_T2	0	0	0	0	0	0	-0.71	-0.69	1	1	0	600	600	0
7/7/2024 19:47	61301	EARL_T1	0	0	0	0	0	0	-1.17	-1.14	2	2	0	1800	1800	0
7/7/2024 19:48	61301	EARL_T1	0	0	0	0	0	0	-1.17	-1.14	2	2	0	1800	1800	0
7/7/2024 19:57	40502	CRES_T2	110	46	-64	0.59	0.63	0.04	0.2	0.16	0	0	0	0	0	0
7/7/2024 19:57	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 20:00	40502	CRES_T2	45	25	-20	0.64	0.34	-0.3	0.2	0.16	0	0	0	0	0	0
7/7/2024 20:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 20:01	40502	CRES_T2	45	25	-20	0.64	0.34	-0.3	0.2	0.16	0	0	0	0	0	0
7/7/2024 20:01	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 20:05	46801	HEPB_T2	2	3	1	0.2	0.3	0.1	0.41	0.37	0	0	0	0	0	0
7/7/2024 20:08	44903	SCOT_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 20:08	44905	SCOT_T1	44	29	-15	0.72	0.67	-0.05	0	0	0	0	0	0	0	0
7/7/2024 20:10	13503	MCMI_T2	0	0	0	0	0	0	-0.37	-0.4	0	0	0	0	0	0
7/7/2024 20:10	61301	EARL_T1	0	0	0	0	0	0	-1.16	-1.19	2	2	0	1800	1800	0
7/7/2024 20:11	61301	EARL_T1	0	0	0	0	0	0	-1.16	-1.19	2	2	0	1800	1800	0
7/7/2024 20:16	40502	CRES_T2	24	12	-12	0.62	0.3	-0.32	0.16	0.08	0	0	0	0	0	0
7/7/2024 20:16	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 20:18	64204	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
7/7/2024 20:18	64202	KINZ_T1	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
7/7/2024 20:18	64203	KINZ_T1	0	0	0	0	0	0	-1.44	-1.49	3	3	0	2100	2100	0
7/7/2024 20:24	64305	UINC_T1	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
7/7/2024 20:33	61301	EARL_T1	0	0	0	0	0	0	-1.19	-1.16	2	2	0	1800	1800	0
7/7/2024 20:34	61301	EARL_T1	0	0	0	0	0	0	-1.19	-1.16	2	2	0	1800	1800	0
7/7/2024 20:38	57401	SPAN_T1	1	3	2	0.5	0	-0.5	-1.53	-0.7	2	1	-1	1500	600	-900
7/7/2024 20:40	29402	BELT_T1	1	3	2	7.4	4.25	-3.15	0	0	0	0	0	0	0	0
7/7/2024 20:40	29401	BELT_T1	9	15	6	0.42	0.45	0.03	0	0	0	0	0	0	0	0
7/7/2024 21:12	14401	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 21:12	14402	SSLA_T1	4	5	1	1.08	0.83	-0.25	0	0	0	0	0	0	0	0
7/7/2024 21:12	14404	SSLA_T1	31	16	-15	0.88	0.83	-0.05	0	0	0	0	0	0	0	0
7/7/2024 21:12	14403	SSLA_T1	3	0	-3	0.27	0	-0.27	-0.29	-0.38	3	3	0	1800	1800	0
7/7/2024 21:14	46206	DANV_T2	60	46	-14	0.86	0.52	-0.34	1.19	1.21	2	2	0	2100	2100	0
7/7/2024 21:14	46204	DANV_T2	19	13	-6	0.35	0.35	0	0	0	0	0	0	0	0	0
7/7/2024 21:14	46203	DANV_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 21:20	41902	REED_T1	6	8	2	0.78	0	-0.78	0.43	0.41	1	1	0	900	900	0
7/7/2024 21:20	41901	REED_T1	4	2	-2	0.25	0.25	0	0	0	0	0	0	0	0	0
7/7/2024 21:21	47402	PENS_T1	4	1	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/7/2024 21:21	47401	PENS_T1	3	3	0	1.1	0.2	-0.9	0.41	0.38	0	0	0	0	0	0
7/7/2024 21:22	56801	BENV_T1	20	11	-9	0.47	0.64	0.17	0.67	0.73	2	2	0	1200	1200	0
7/7/2024 21:22	56803	BENV_T1	4	4	0	3.33	0.97	-2.36	0	0	0	0	0	0	0	0
7/7/2024 21:23	11804	FRAN_T1	243	243	0	1.38	1.18	-0.2	0.5	0.51	0	0	0	0	0	0
7/7/2024 21:23	11802	FRAN_T1	26	28	2	0.41	0.44	0.03	0	0	0	0	0	0	0	0
7/7/2024 21:25	46803	HEPB_T2	8	9	1	0.16	0.2	0.04	0	0	0	0	0	0	0	0
7/7/2024 21:25	52402	GRPA_T2	7	10	3	0.76	0.68	-0.08	0	0	0	0	0	0	0	0
7/7/2024 21:25	46203	DANV_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
7/7/2024 21:25	13503	MCMI_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
7/7/2024 21:25	46801	HEPB_T2	21	24	3	0.26	0.3	0.04	0.25	0.25	0	0	0	0	0	0
7/7/2024 21:25	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/7/2024 21:25	52403	GRPA_T2	47	118	71	0.76	0.76	0	0	0	0	0	0	0	0	0
7/7/2024 21:25	52404	GRPA_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
7/7/2024 21:25	46206	DANV_T2	45	46	1	0.58	0.45	-0.13	1.21	1.18	2	2	0	2100	2100	0
7/7/2024 21:25	46204	DANV_T2	10	10	0	0.38	0.2	-0.18	0	0	0	0	0	0	0	0
7/7/2024 21:26	20403	ASHF_T2	0	0	0	0	0	0	-0.24	-0.32	0	0	0	0	0	0
7/7/2024 21:26	47101	MARL_T1	33	40	7	1.21	0.96	-0.25	-0.74	-0.7	1	1	0	600	600	0
7/7/2024 21:26	20402	ASHF_T2	11	2	-9	0.54	0.75	0.21	0	0	0	0	0	0	0	0
7/7/2024 21:26	20401	ASHF_T2	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/7/2024 21:26	47104	MARL_T1	4	21	17	0.6	0.63	0.03	0	0	0	0	0	0	0	0
7/7/2024 21:28	40502	CRES_T2	8	6	-2	0.38	0.2	-0.18	-0.11	-0.15	0	0	0	0	0	0
7/7/2024 21:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 21:29	40502	CRES_T2	8	6	-2	0.38	0.2	-0.18	-0.11	-0.15	0	0	0	0	0	0
7/7/2024 21:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 21:30	40502	CRES_T2	6	6	0	0.15	0.2	0.05	-0.22	-0.31	0	0	0	0	0	0
7/7/2024 21:30	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 21:31	61102	BERK_T5	0	0	0	0	0	0	0.58	0.42	1	1	0	300	300	0
7/7/2024 21:32	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 21:32	40502	CRES_T2	6	6	0	0.15	0.2	0.05	-0.11	-0.15	0	0	0	0	0	0
7/7/2024 21:32	61102	BERK_T5	0	0	0	0	0	0	0.58	0.42	1	1	0	300	300	0
7/7/2024 21:34	40502	CRES_T2	6	6	0	0.15	0.2	0.05	-0.11	-0.15	0	0	0	0	0	0
7/7/2024 21:34	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 21:34	22901	HARW_T1	37	31	-6	0.83	0.49	-0.34	-0.39	-0.3	1	1	0	1200	1200	0
7/7/2024 21:34	12801	MICK_T1	0	0	0	0	0	0	-0.58	-0.65	1	1	0	600	600	0
7/7/2024 21:34	22903	HARW_T1	12	22	10	0.53	0.75	0.22	0	0	0	0	0	0	0	0
7/7/2024 21:34	22905	HARW_T1	27	51	24	0.65	0.29	-0.36	0	0	0	0	0	0	0	0
7/7/2024 21:35	57301	MOAL_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/7/2024 21:35	57304	MOAL_T2	0	0	0	0	0	0	-0.21	-0.35	0	0	0	0	0	0
7/7/2024 21:35	57303	MOAL_T2	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
7/7/2024 21:35	40101	HUNT_T2	4	8	4	0.35	0.25	-0.1	-0.81	-0.81	0	0	0	0	0	0
7/7/2024 21:36	12305	LANA_T2	7	5	-2	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/7/2024 21:36	12301	LANA_T2	0	0	0	0	0	0	-0.81	-0.9	1	1	0	1200	1200	0
7/7/2024 21:36	12304	LANA_T2	2	3	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/7/2024 21:37	13303	ORVI_T1	0	0	0	0	0	0	0.84	0.82	0	0	0	0	0	0
7/7/2024 21:38	48301	ORWI_T1	2	2	0	4.4	4.85	0.45	0.04	0.02	0	0	0	0	0	0
7/7/2024 21:39	46302	ROHR_T1	4	2	-2	0.35	0.4	0.05	0.41	0.4	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/7/2024 21:50	62102	ELAN_T1	0	0	0	0	0	0	-0.38	-0.45	0	0	0	0	0	0
7/7/2024 21:51	16302	ALPA_T2	0	1	1	0	0	0	-0.17	-0.22	0	0	0	0	0	0
7/7/2024 21:51	44203	POIN_T2	0	0	0	0	0	0	-0.66	-0.77	2	2	0	2100	2100	0
7/7/2024 21:52	40601	PIGR_T1	0	0	0	0	0	0	0.25	0.15	0	0	0	0	0	0
7/7/2024 21:52	40602	PIGR_T1	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/7/2024 21:52	40603	PIGR_T1	43	17	-26	0.64	0.4	-0.24	0	0	0	0	0	0	0	0
7/7/2024 21:55	58003	WCAR_T1	1	2	1	1.3	0.9	-0.4	0.46	0.42	1	1	0	600	600	0
7/7/2024 21:55	58001	WCAR_T1	0	6	6	0	0.3	0.3	0	0	0	0	0	0	0	0
7/7/2024 21:55	40603	PIGR_T1	43	17	-26	0.64	0.4	-0.24	0	0	0	0	0	0	0	0
7/7/2024 21:55	40602	PIGR_T1	2	1	-1	0.45	0	-0.45	-2.34	-2.49	2	2	0	1200	1200	0
7/7/2024 21:58	55105	WERT_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
7/7/2024 21:58	55101	WERT_T1	0	0	0	0	0	0	-2.52	-2.53	4	4	0	3300	3300	0
7/7/2024 22:00	64101	REFR_T1	0	0	0	0	0	0	0.04	-0.02	0	0	0	0	0	0
7/7/2024 22:01	61102	BERK_T5	0	0	0	0	0	0	0.42	0.42	1	1	0	300	300	0
7/7/2024 22:03	14801	TREI_T2	201	195	-6	1.91	1.57	-0.34	0.8	0.76	0	0	0	0	0	0
7/7/2024 22:03	29401	BELT_T1	26	26	0	0.57	0.57	0	0	0	1	1	0	900	900	0
7/7/2024 22:03	14802	TREI_T2	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 22:03	29402	BELT_T1	1	1	0	8.8	9.5	0.7	0	0	0	0	0	0	0	0
7/7/2024 22:05	58803	COCO_T1	1	1	0	0.5	0.9	0.4	-0.9	-0.96	1	1	0	600	600	0
7/7/2024 22:10	44801	EDAN_T2	1	1	0	0.8	0.2	-0.6	0.86	0.88	0	0	0	0	0	0
7/7/2024 22:12	64202	KINZ_T1	1	1	0	0.2	0.1	-0.1	1.5	1.53	0	0	0	0	0	0
7/7/2024 22:12	64204	KINZ_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
7/7/2024 22:19	61701	ELIZ_T1	1	1	0	3.9	4.1	0.2	1.02	1.09	0	0	0	0	0	0
7/7/2024 22:23	44201	POIN_T1	6	0	-6	0.2	0	-0.2	-2	-2.06	1	1	0	1200	1200	0
7/7/2024 22:24	44201	POIN_T1	6	0	-6	0.2	0	-0.2	-2	-2.06	1	1	0	1200	1200	0
7/7/2024 22:26	44201	POIN_T1	6	0	-6	0.2	0	-0.2	-2	-2.06	1	1	0	1200	1200	0
7/7/2024 22:28	44201	POIN_T1	6	0	-6	0.2	0	-0.2	-2	-2.06	1	1	0	1200	1200	0
7/7/2024 22:28	63601	LETO_T1	0	0	0	0	0	0	-0.84	-0.86	2	2	0	1200	1200	0
7/7/2024 22:30	65604	QVIL_T2	1	0	-1	0.6	0	-0.6	0.87	0.83	0	0	0	0	0	0
7/7/2024 22:30	44201	POIN_T1	0	0	0	0	0	0	-2	-2.06	1	1	0	1200	1200	0
7/7/2024 22:30	64302	LINC_T2	0	0	0	0	0	0	1.31	1.26	0	0	0	0	0	0
7/7/2024 22:31	13904	SEID_T1	44	30	-14	0.97	0.5	-0.47	-0.38	-0.4	0	0	0	0	0	0
7/7/2024 22:31	13902	SEID_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 22:31	13903	SEID_T1	5	5	0	0.28	0	-0.28	0	0	0	0	0	0	0	0
7/7/2024 22:31	44201	POIN_T1	0	0	0	0	0	0	-2	-2.06	1	1	0	1200	1200	0
7/7/2024 22:32	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:32	12701	MACU_T1	0	0	0	0	0	0	-0.77	-0.78	1	1	0	1200	1200	0
7/7/2024 22:32	46203	DANV_T2	5	0	-5	0.3	0	-0.3	-2.43	-1.57	0	0	0	0	0	0
7/7/2024 22:32	51804	EBEN_T2	0	0	0	0	0	0	-0.88	-0.93	1	1	0	900	900	0
7/7/2024 22:33	61303	EARL_T1	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
7/7/2024 22:33	40502	CRES_T2	7	10	3	0.27	0.28	0.01	-0.3	-0.37	0	0	0	0	0	0
7/7/2024 22:33	13503	MCMI_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
7/7/2024 22:33	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:34	64204	KINZ_T1	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
7/7/2024 22:34	14403	SSLA_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/7/2024 22:34	64203	KINZ_T1	0	0	0	0	0	0	-0.14	-0.05	1	1	0	600	600	0
7/7/2024 22:34	14404	SSLA_T1	3	2	-1	0.73	1.35	0.62	0	0	0	0	0	0	0	0
7/7/2024 22:34	55101	WERT_T1	0	0	0	0	0	0	-2.54	-2.54	4	4	0	3300	3300	0
7/7/2024 22:34	14401	SSLA_T1	0	0	0	0	0	0	-1.14	-1.18	2	2	0	1800	1800	0
7/7/2024 22:34	13503	MCMI_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
7/7/2024 22:34	64201	KINZ_T1	0	1	1	0	0.3	0.3	-0.28	-0.38	3	3	0	1500	1500	0
7/7/2024 22:34	14402	SSLA_T1	4	0	-4	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/7/2024 22:34	64202	KINZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/7/2024 22:34	67603	WARW_T1	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
7/7/2024 22:35	61701	ELIZ_T1	1	1	0	3.9	4.1	0.2	1.09	1.15	0	0	0	0	0	0
7/7/2024 22:35	62102	ELAN_T1	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
7/7/2024 22:36	65503	MOJO_T2	0	0	0	0	0	0	-0.53	-0.6	1	1	0	900	900	0
7/7/2024 22:36	62104	ELAN_T1	0	0	0	0	0	0	0.51	0.39	2	2	0	1500	1500	0
7/7/2024 22:36	16302	ALPA_T2	1	1	0	5.5	0	-5.5	-0.23	-0.29	0	0	0	0	0	0
7/7/2024 22:36	61702	ELIZ_T2	0	0	0	0	0	0	-1.3	-1.37	2	2	0	1500	1500	0
7/7/2024 22:36	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 22:36	66505	SMAN_T2	2	1	-1	0.3	0	-0.3	0.09	0.09	3	3	0	2100	2100	0
7/7/2024 22:37	52002	LING_T2	0	0	0	0	0	0	-0.18	-0.24	0	0	0	0	0	0
7/7/2024 22:37	53903	HALI_T2	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/7/2024 22:37	11801	FRAN_T2	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
7/7/2024 22:37	11104	EGYP_T1	0	0	0	0	0	0	-0.16	0.73	0	0	0	0	0	0
7/7/2024 22:37	56501	ROCK_T2	83	150	67	0.21	0.28	0.07	-2.52	-2.64	0	0	0	0	0	0
7/7/2024 22:37	11803	FRAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:37	53902	HALI_T2	1	1	0	4.7	5.3	0.6	-1.72	-1.44	0	0	0	0	0	0
7/7/2024 22:37	11102	EGYP_T1	10	3	-7	1.1	0.63	-0.47	0	0	0	0	0	0	0	0
7/7/2024 22:37	14801	TREI_T2	189	166	-23	1.63	0.84	-0.79	0	0	0	0	0	0	0	0
7/7/2024 22:37	66701	STRA_T1	0	0	0	0	0	0	0.54	0.46	1	1	0	600	600	0
7/7/2024 22:37	52004	LING_T2	0	0	0	0	0	0	0.16	0.06	0	0	0	0	0	0
7/7/2024 22:37	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:38	52002	LING_T2	0	0	0	0	0	0	-0.18	-0.24	0	0	0	0	0	0
7/7/2024 22:38	57101	SPHI_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/7/2024 22:38	47001	HUGH_T2	3	3	0	7.6	8.57	0.97	-1.65	-1.65	1	1	0	900	900	0
7/7/2024 22:38	56504	ROCK_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
7/7/2024 22:38	11507	FREE_T2	1	1	0	0.7	0.1	-0.6	0.51	0.62	1	1	0	600	600	0
7/7/2024 22:38	47002	HUGH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 22:38	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:38	56501	ROCK_T2	83	150	67	0.21	0.28	0.07	0	0	0	0	0	0	0	0
7/7/2024 22:38	12304	LANA_T2	3	1	-2	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/7/2024 22:38	57106	SPHI_T2	3	3	0	0.87	1.13	0.26	0	0	0	0	0	0	0	0
7/7/2024 22:38	51602	DUKE_T2	0	0	0	0	0	0	-0.98	-1.03	1	1	0	1200	1200	0
7/7/2024 22:38	67605	WARW_T1	0	0	0	0	0	0	-0.94	-0.98	0	0	0	0	0	0
7/7/2024 22:38	46203	DANV_T2	5	0	-5	0.3	0	-0.3	-1.57	-1.56	0	0	0	0	0	0
7/7/2024 22:38	57103	SPHI_T2	0	0	0	0	0	0	-0.31	-0.36	1	1	0	600	600	0
7/7/2024 22:38	57401	SPAN_T1	0	0	0	0	0	0	-1.19	-0.58	1	1	0	600	600	0
7/7/2024 22:38	57403	SPAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/7/2024 22:38	12302	LANA_T2	0	0	0	0	0	0	-1.92	-1.97	3	3	0	2700	2700	0
7/7/2024 22:39	24902	WHHA_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
7/7/2024 22:39	61102	BERK_T5	0	0	0	0	0	0	0.76	0.74	2	2	0	600	600	0
7/7/2024 22:39	64302	LINC_T2	0	0	0	0	0	0	1.26	1.28	0	0	0	0	0	0
7/7/2024 22:39	16302	ALPA_T2	1	1	0	5.5	0	-5.5	-0.23	-0.29	0	0	0	0	0	0
7/7/2024 22:39	58706	ROSE_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/7/2024 22:39	60501	NMAN_T2	3	3	0	4.63	5.1	0.47	0	0	0	0	0	0	0	0
7/7/2024 22:39	57403	SPAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/7/2024 22:39	60504	NMAN_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/7/2024 22:39	40602	PIGR_T1	0	0	0	0	0	0	-1.32	-1.31	1	1	0	600	600	0
7/7/2024 22:39	57401	SPAN_T1	0	0	0	0	0	0	-1.19	-0.58	1	1	0	600	600	0
7/7/2024 22:39	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/7/2024 22:39	58705	ROSE_T2	5	5	0	0.84	1.22	0.38	0	0	0	0	0	0	0	0
7/7/2024 22:39	60301	TWVA_T2	0	0	0	0	0	0	-0.77	-0.81	1	1	0	1200	1200	0
7/7/2024 22:39	63602	LETO_T1	0	0	0	0	0	0	-0.86	-0.97	2	2	0	1200	1200	0
7/7/2024 22:39	58701	ROSE_T2	0	0	0	0	0	0	-1.66	-1.72	1	1	0	600	600	0
7/7/2024 22:39	40603	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 22:39	42701	AUGU_T1	33	21	-12	0.45	0.4	-0.05	0	0	2	2	0	1800	1800	0
7/7/2024 22:39	60502	NMAN_T2	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
7/7/2024 22:39	44703	MUNC_T2	0	0	0	0	0	0	0.92	0.95	0	0	0	0	0	0
7/7/2024 22:39	65901	SAKR_T2	1	1	0	7.8	8.4	0.6	-1.02	-1.09	2	2	0	1500	1500	0
7/7/2024 22:39	20601	GRWO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:40	63402	HONY_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
7/7/2024 22:40	57403	SPAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/7/2024 22:40	57401	SPAN_T1	0	0	0	0	0	0	-1.19	-0.58	1	1	0	600	600	0
7/7/2024 22:40	56504	ROCK_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
7/7/2024 22:40	66505	SMAN_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/7/2024 22:40	40101	HUNT_T2	7	0	-7	0.33	0	-0.33	-0.94	-0.93	0	0	0	0	0	0
7/7/2024 22:40	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 22:40	29402	BELT_T1	1	1	0	9.5	9.3	-0.2	0	0	0	0	0	0	0	0
7/7/2024 22:40	67804	WLAN_T1	9	10	1	0.52	0.35	-0.17	-1.03	-1.06	0	0	0	0	0	0
7/7/2024 22:40	66504	SMAN_T2	0	1	1	0	0.1	0.1	-1.19	1.05	0	0	0	0	0	0
7/7/2024 22:40	61102	BERK_T5	0	0	0	0	0	0	0.76	0.74	2	2	0	600	600	0
7/7/2024 22:40	63403	HONY_T2	0	0	0	0	0	0	-0.52	-0.56	0	0	0	0	0	0
7/7/2024 22:40	52004	LING_T2	0	0	0	0	0	0	0.16	0.06	0	0	0	0	0	0
7/7/2024 22:40	66703	STRA_T1	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
7/7/2024 22:40	40302	TAMA_T3	0	0	0	0	0	0	-1.08	-1.1	0	0	0	0	0	0
7/7/2024 22:40	56501	ROCK_T2	83	150	67	0.21	0.28	0.07	0	0	0	0	0	0	0	0
7/7/2024 22:40	40301	TAMA_T3	2	1	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/7/2024 22:40	65001	NEFF_T2	0	0	0	0	0	0	-0.66	-0.73	1	1	0	1200	1200	0
7/7/2024 22:40	60101	COCA_T1	0	0	0	0	0	0	-0.35	0.85	1	0	-1	1200	0	-1200
7/7/2024 22:41	60501	NMAN_T2	3	3	0	4.63	5.1	0.47	0	0	0	0	0	0	0	0
7/7/2024 22:41	11102	EGYP_T1	10	3	-7	1.1	0.63	-0.47	0	0	0	0	0	0	0	0
7/7/2024 22:41	57401	SPAN_T1	0	0	0	0	0	0	-1.19	-0.58	1	1	0	600	600	0
7/7/2024 22:41	60502	NMAN_T2	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
7/7/2024 22:41	22001	BOHE_T1	0	0	0	0	0	0	0.62	0.52	0	0	0	0	0	0
7/7/2024 22:41	42701	AUGU_T1	33	21	-12	0.45	0.4	-0.05	0	0	2	2	0	1800	1800	0
7/7/2024 22:41	61703	ELIZ_T1	0	0	0	0	0	0	-2.46	-2.5	2	2	0	2100	2100	0
7/7/2024 22:41	42601	TUSC_T1	0	0	0	0	0	0	-0.04	-0.04	2	2	0	1800	1800	0
7/7/2024 22:41	45602	WOOL_T1	2	13	11	0.2	0.27	0.07	0.43	0.41	0	0	0	0	0	0
7/7/2024 22:41	47101	MARL_T1	48	20	-28	0.72	0.4	-0.32	-0.34	-0.36	0	0	0	0	0	0
7/7/2024 22:41	61102	BERK_T5	0	0	0	0	0	0	0.38	0.37	1	1	0	300	300	0
7/7/2024 22:41	51602	DUKE_T2	0	0	0	0	0	0	-0.98	-1.03	1	1	0	1200	1200	0
7/7/2024 22:41	22003	BOHE_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/7/2024 22:41	57403	SPAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/7/2024 22:41	56504	ROCK_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
7/7/2024 22:41	43402	BENT_T1	0	0	0	0	0	0	-0.78	-0.78	1	1	0	900	900	0
7/7/2024 22:41	60504	NMAN_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/7/2024 22:41	11104	EGYP_T1	0	0	0	0	0	0	-0.16	0.73	0	0	0	0	0	0
7/7/2024 22:41	61701	ELIZ_T1	1	1	0	3.9	4.1	0.2	0	0	0	0	0	0	0	0
7/7/2024 22:41	56501	ROCK_T2	83	150	67	0.21	0.28	0.07	0	0	0	0	0	0	0	0
7/7/2024 22:42	13201	PALM_T1	6	7	1	0.8	0	-0.8	-1.28	-1.32	1	1	0	1200	1200	0
7/7/2024 22:42	53902	HALI_T2	1	1	0	4.7	5.3	0.6	-0.86	-0.72	0	0	0	0	0	0
7/7/2024 22:42	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 22:42	46302	ROHR_T1	4	4	0	0.93	1.3	0.37	0.33	0.32	0	0	0	0	0	0
7/7/2024 22:42	67801	WLAN_T1	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
7/7/2024 22:42	22905	HARW_T1	42	23	-19	0.82	0.5	-0.32	0	0	0	0	0	0	0	0
7/7/2024 22:42	12006	HATF_T1	0	0	0	0	0	0	1.21	1.22	0	0	0	0	0	0
7/7/2024 22:42	49803	UNIV_T1	0	0	0	0	0	0	-1.97	-2.01	0	0	0	0	0	0
7/7/2024 22:42	20403	ASHF_T2	1	0	-1	0.3	0	-0.3	0.76	0.67	0	0	0	0	0	0
7/7/2024 22:42	64101	REFR_T1	0	0	0	0	0	0	-0.21	0.91	0	0	0	0	0	0
7/7/2024 22:42	12704	MACU_T1	0	0	0	0	0	0	-0.82	-0.78	1	1	0	600	600	0
7/7/2024 22:42	46203	DANV_T2	5	0	-5	0.3	0	-0.3	-1.57	-1.56	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/7/2024 22:42	65901	SAKR_T2	1	1	0	7.8	8.4	0.6	-1.02	-1.09	2	2	0	1500	1500	0
7/7/2024 22:42	49804	UNIV_T1	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/7/2024 22:42	56501	ROCK_T2	83	150	67	0.21	0.28	0.07	-5.03	-5.27	0	0	0	0	0	0
7/7/2024 22:42	22901	HARW_T1	9	7	-2	0.31	0	-0.31	-0.46	-0.54	1	1	0	1200	1200	0
7/7/2024 22:42	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.6	0.53	0	0	0	0	0	0
7/7/2024 22:42	20402	ASHF_T2	6	0	-6	0.17	0	-0.17	0	0	0	0	0	0	0	0
7/7/2024 22:42	58803	COCO_T1	1	1	0	0.9	1.1	0.2	-1.02	-1.12	1	1	0	600	600	0
7/7/2024 22:42	55001	NEWP_T1	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
7/7/2024 22:42	42201	SHEN_T2	0	0	0	0	0	0	0.35	0.36	1	1	0	600	600	0
7/7/2024 22:42	44905	SCOT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 22:42	67602	WARW_T2	0	0	0	0	0	0	0.89	0.82	0	0	0	0	0	0
7/7/2024 22:42	12701	MACU_T1	0	0	0	0	0	0	-0.78	-0.8	1	1	0	1200	1200	0
7/7/2024 22:42	66505	SMAN_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/7/2024 22:42	53903	HALI_T2	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/7/2024 22:42	56504	ROCK_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
7/7/2024 22:42	22903	HARW_T1	9	8	-1	0.54	0.35	-0.19	0	0	0	0	0	0	0	0
7/7/2024 22:42	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:42	56801	BENV_T1	5	9	4	1.02	0.92	-0.1	-0.87	-0.35	2	1	-1	1200	600	-600
7/7/2024 22:42	63401	HONY_T1	0	0	0	0	0	0	0.04	0.06	1	1	0	600	600	0
7/7/2024 22:42	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:42	25801	SUTR_T2	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
7/7/2024 22:42	65503	MOJO_T2	0	0	0	0	0	0	-0.53	-0.6	1	1	0	900	900	0
7/7/2024 22:42	56803	BENV_T1	3	1	-2	0.53	0	-0.53	-0.75	-0.78	1	1	0	600	600	0
7/7/2024 22:42	55002	NEWP_T1	2	3	1	0.75	0.77	0.02	0	0	0	0	0	0	0	0
7/7/2024 22:42	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/7/2024 22:42	67804	WLAN_T1	9	10	1	0.52	0.35	-0.17	0	0	0	0	0	0	0	0
7/7/2024 22:42	59101	WALK_T2	0	0	0	0	0	0	0.72	0.74	2	2	0	1200	1200	0
7/7/2024 22:42	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:43	67203	TEHI_T1	0	0	0	0	0	0	2.05	2.04	1	1	-1	900	900	0
7/7/2024 22:43	42701	AUGU_T1	33	21	-12	0.45	0.4	-0.05	0	0	2	2	0	1800	1800	0
7/7/2024 22:43	66505	SMAN_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/7/2024 22:43	41901	REED_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/7/2024 22:43	53902	HALI_T2	1	1	0	4.7	5.3	0.6	0	0	0	0	0	0	0	0
7/7/2024 22:43	46302	ROHR_T1	4	4	0	0.93	1.3	0.37	0	0	0	0	0	0	0	0
7/7/2024 22:43	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 22:43	56504	ROCK_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
7/7/2024 22:43	59101	WALK_T2	0	0	0	0	0	0	0.72	0.74	2	2	0	1200	1200	0
7/7/2024 22:43	57304	MOAL_T2	0	0	0	0	0	0	-0.02	-0.25	0	0	0	0	0	0
7/7/2024 22:43	66703	STRA_T1	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
7/7/2024 22:43	56501	ROCK_T2	83	150	67	0.21	0.28	0.07	-5.03	-5.27	0	0	0	0	0	0
7/7/2024 22:43	41902	REED_T1	0	0	0	0	0	0	0.21	0.18	1	1	0	900	900	0
7/7/2024 22:43	20403	ASHF_T2	1	0	-1	0.3	0	-0.3	0.76	0.67	0	0	0	0	0	0
7/7/2024 22:43	57303	MOAL_T2	1	1	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
7/7/2024 22:43	40603	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 22:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:43	52403	GRPA_T2	41	64	23	0.57	0.75	0.18	-0.13	-0.17	0	0	0	0	0	0
7/7/2024 22:43	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/7/2024 22:43	46301	ROHR_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
7/7/2024 22:43	57301	MOAL_T2	3	3	0	0.63	0	-0.63	0	0	0	0	0	0	0	0
7/7/2024 22:43	40502	CRES_T2	7	10	3	0.27	0.28	0.01	-0.74	-0.86	0	0	0	0	0	0
7/7/2024 22:43	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:43	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:43	20402	ASHF_T2	6	0	-6	0.17	0	-0.17	0	0	0	0	0	0	0	0
7/7/2024 22:43	61304	EARL_T1	0	0	0	0	0	0	-0.18	-0.17	1	1	0	600	600	0
7/7/2024 22:43	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.6	0.53	0	0	0	0	0	0
7/7/2024 22:43	53903	HALI_T2	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/7/2024 22:43	41903	REED_T1	0	0	0	0	0	0	-0.24	-0.23	1	1	0	1200	1200	0
7/7/2024 22:43	53901	HALI_T2	0	0	0	0	0	0	-1.15	-1.07	0	0	0	0	0	0
7/7/2024 22:43	25503	MADI_T1	4	3	-1	0.23	0.17	-0.06	-0.6	-0.59	0	0	0	0	0	0
7/7/2024 22:43	60101	COCA_T1	0	0	0	0	0	0	-0.35	0.85	1	0	-1	1200	0	-1200
7/7/2024 22:43	40602	PIGR_T1	0	0	0	0	0	0	-1.32	-1.31	1	1	0	600	600	0
7/7/2024 22:43	45302	WBER_T2	0	0	0	0	0	0	1.31	1.32	0	0	0	0	0	0
7/7/2024 22:44	47101	MARL_T1	48	20	-28	0.72	0.4	-0.32	-0.34	-0.36	0	0	0	0	0	0
7/7/2024 22:44	63401	HONY_T1	0	0	0	0	0	0	0.04	0.06	1	1	0	600	600	0
7/7/2024 22:44	66701	STRA_T1	0	0	0	0	0	0	0.54	0.46	1	1	0	600	600	0
7/7/2024 22:44	52401	GRPA_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
7/7/2024 22:44	51602	DUKE_T2	0	0	0	0	0	0	-0.98	-1.03	1	1	0	1200	1200	0
7/7/2024 22:44	56801	BENV_T1	5	9	4	1.02	0.92	-0.1	-0.87	-0.35	2	1	-1	1200	600	-600
7/7/2024 22:44	47001	HUGH_T2	3	3	0	7.6	8.57	0.97	-1.65	-1.65	1	1	0	900	900	0
7/7/2024 22:44	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 22:44	56501	ROCK_T2	83	150	67	0.21	0.28	0.07	-5.03	-5.27	0	0	0	0	0	0
7/7/2024 22:44	53903	HALI_T2	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/7/2024 22:44	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:44	53902	HALI_T2	1	1	0	4.7	5.3	0.6	-0.86	-0.72	0	0	0	0	0	0
7/7/2024 22:44	66505	SMAN_T2	2	1	-1	0.3	0	-0.3	0.09	0.09	3	3	0	2100	2100	0
7/7/2024 22:44	47002	HUGH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 22:44	52403	GRPA_T2	41	64	23	0.57	0.75	0.18	0	0	0	0	0	0	0	0
7/7/2024 22:44	67605	WARW_T1	0	0	0	0	0	0	-1.89	-1.97	0	0	0	0	0	0
7/7/2024 22:44	56803	BENV_T1	3	1	-2	0.53	0	-0.53	0	0	0	0	0	0	0	0
7/7/2024 22:44	61301	EARL_T1	0	0	0	0	0	0	-0.25	-0.26	1	1	0	900	900	0
7/7/2024 22:44	47401	PENS_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
7/7/2024 22:44	11001	EGRE_T1	0	0	0	0	0	0	-0.54	-0.5	1	1	0	1200	1200	0
7/7/2024 22:44	45702	LIND_T2	0	371	371	0	0	0	-1.37	-1.37	0	0	0	0	0	0
7/7/2024 22:44	66503	SMAN_T2	0	0	0	0	0	0	0.97	0.92	0	0	0	0	0	0
7/7/2024 22:45	20401	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/7/2024 22:45	67803	WLAN_T1	0	0	0	0	0	0	-0.85	-0.89	0	0	0	0	0	0
7/7/2024 22:45	55405	SHER_T1	0	2	2	0	0.2	0.2	-0.35	-0.36	0	0	0	0	0	0
7/7/2024 22:45	67804	WLAN_T1	10	6	-4	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/7/2024 22:45	46206	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 22:45	42903	MIDD_T2	2	2	0	0.55	1	0.45	0	0	0	0	0	0	0	0
7/7/2024 22:45	42701	AUGU_T1	21	9	-12	0.48	0.48	0	0	0	2	2	0	1800	1800	0
7/7/2024 22:45	46203	DANV_T2	0	0	0	0	0	0	-1.57	-1.56	0	0	0	0	0	0
7/7/2024 22:45	56801	BENV_T1	9	5	-4	0.87	1.72	0.85	0	0	0	0	0	0	0	0
7/7/2024 22:45	43301	WATS_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
7/7/2024 22:45	42902	MIDD_T2	0	1	1	0	0.1	0.1	-1.04	-1.07	1	1	0	600	600	0
7/7/2024 22:45	52403	GRPA_T2	64	14	-50	0.57	0.63	0.06	0	0	0	0	0	0	0	0
7/7/2024 22:45	52002	LING_T2	0	0	0	0	0	0	-0.18	-0.24	0	0	0	0	0	0
7/7/2024 22:45	56803	BENV_T1	0	1	1	0	0	0	-2.26	-2.34	3	3	0	1800	1800	0
7/7/2024 22:45	20403	ASHF_T2	0	0	0	0	0	0	0.76	0.67	0	0	0	0	0	0
7/7/2024 22:45	43302	WATS_T2	0	0	0	0	0	0	-0.81	-0.81	2	2	0	1800	1800	0
7/7/2024 22:45	44801	EDAN_T2	1	1	0	0.7	0.3	-0.4	0.85	0.74	0	0	0	0	0	0
7/7/2024 22:45	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/7/2024 22:45	47401	PENS_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
7/7/2024 22:45	52404	GRPA_T2	0	0	0	0	0	0	-1.18	-1.32	0	0	0	0	0	0
7/7/2024 22:45	64101	REFR_T1	0	0	0	0	0	0	-0.11	0.46	0	0	0	0	0	0
7/7/2024 22:45	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:45	52402	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/7/2024 22:45	59003	MIFF_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
7/7/2024 22:45	51602	DUKE_T2	0	0	0	0	0	0	-0.98	-1.03	1	1	0	1200	1200	0
7/7/2024 22:45	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:45	43304	WATS_T2	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/7/2024 22:46	43304	WATS_T2	4	0	-4	0.13	0	-0.13	-0.71	-0.74	0	0	0	0	0	0
7/7/2024 22:46	56501	ROCK_T2	149	89	-60	0.28	0.23	-0.05	-2.52	-2.64	0	0	0	0	0	0
7/7/2024 22:46	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 22:46	12302	LANA_T2	0	0	0	0	0	0	-1.92	-1.97	3	3	0	2700	2700	0
7/7/2024 22:46	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:46	40602	PIGR_T1	0	0	0	0	0	0	-1.32	-1.31	1	1	0	600	600	0
7/7/2024 22:46	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:46	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:46	16302	ALPA_T2	1	0	-1	4.9	0	-4.9	-0.23	-0.29	0	0	0	0	0	0
7/7/2024 22:46	61703	ELIZ_T1	0	0	0	0	0	0	-2.46	-2.5	2	2	0	2100	2100	0
7/7/2024 22:46	11405	FARM_T1	1	0	-1	0.1	0	-0.1	0.16	0.12	1	1	0	1200	1200	0
7/7/2024 22:46	65604	QVIL_T2	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
7/7/2024 22:46	67201	TEHI_T1	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
7/7/2024 22:46	43301	WATS_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
7/7/2024 22:46	14801	TREI_T2	165	140	-25	1.04	0.6	-0.44	0	0	0	0	0	0	0	0
7/7/2024 22:46	12701	MACU_T1	0	0	0	0	0	0	-0.78	-0.8	1	1	0	1200	1200	0
7/7/2024 22:46	66703	STRA_T1	0	0	0	0	0	0	0.37	0.26	0	0	0	0	0	0
7/7/2024 22:46	12304	LANA_T2	1	0	-1	0.1	0	-0.1	0.22	0.16	1	1	0	1200	1200	0
7/7/2024 22:46	56101	WERT_T1	0	0	0	0	0	0	-5.08	-3.46	8	6	-2	6600	4800	-1800
7/7/2024 22:46	44301	BEAV_T2	1	1	0	0.8	0	-0.8	-0.19	-0.22	1	1	0	600	600	0
7/7/2024 22:46	47401	PENS_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
7/7/2024 22:46	21203	ECAR_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
7/7/2024 22:46	61701	ELIZ_T1	1	1	0	4.1	4.2	0.1	0	0	0	0	0	0	0	0
7/7/2024 22:46	67605	WARW_T1	0	0	0	0	0	0	-0.94	-0.98	0	0	0	0	0	0
7/7/2024 22:46	47101	MARL_T1	18	19	1	0.39	0.37	-0.02	-0.68	-0.72	0	0	0	0	0	0
7/7/2024 22:46	56801	BENV_T1	9	5	-4	0.87	1.72	0.85	-0.87	-0.35	2	1	-1	1200	600	-600
7/7/2024 22:46	42701	AUGU_T1	21	9	-12	0.48	0.48	0	0	0	2	2	0	1800	1800	0
7/7/2024 22:46	51604	DUKE_T2	0	0	0	0	0	0	-2.05	-2.09	1	1	0	900	900	0
7/7/2024 22:46	55408	SHER_T2	1	1	0	2	2.4	0.4	-0.6	-0.67	1	1	0	1200	1200	0
7/7/2024 22:47	11102	EGYP_T1	3	3	0	0.67	0.25	-0.42	0	0	0	0	0	0	0	0
7/7/2024 22:47	64101	REFR_T1	0	0	0	0	0	0	-0.11	0.46	0	0	0	0	0	0
7/7/2024 22:47	56501	ROCK_T2	149	89	-60	0.28	0.23	-0.05	-2.52	-2.64	0	0	0	0	0	0
7/7/2024 22:47	56504	ROCK_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
7/7/2024 22:47	52404	GRPA_T2	0	0	0	0	0	0	-0.59	-0.66	0	0	0	0	0	0
7/7/2024 22:47	45602	WOOL_T1	5	19	14	0.12	0.41	0.29	0.43	0.41	0	0	0	0	0	0
7/7/2024 22:47	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0.09	0.09	3	3	0	2100	2100	0
7/7/2024 22:47	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 22:47	51604	DUKE_T2	0	0	0	0	0	0	-2.05	-2.09	1	1	0	900	900	0
7/7/2024 22:47	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:47	46203	DANV_T2	0	0	0	0	0	0	-1.57	-1.56	0	0	0	0	0	0
7/7/2024 22:47	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:47	46101	MACI_T2	3	100	97	0.1	0.19	0.09	-0.49	-0.5	1	1	0	1200	1200	0
7/7/2024 22:47	40602	PIGR_T1	0	0	0	0	0	0	-1.32	-1.31	1	1	0	600	600	0
7/7/2024 22:47	42903	MIDD_T2	2	2	0	0.55	1	0.45	0	0	0	0	0	0	0	0
7/7/2024 22:47	56801	BENV_T1	9	5	-4	0.87	1.72	0.85	-0.87	-0.35	2	1	-1	1200	600	-600
7/7/2024 22:47	52403	GRPA_T2	64	14	-50	0.57	0.63	0.06	0	0	0	0	0	0	0	0
7/7/2024 22:47	45801	HEGI_T1	0	0	0	0	0	0	-0.39	-0.41	1	1	0	900	900	0
7/7/2024 22:47	11104	EGYP_T1	0	0	0	0	0	0	-0.16	0.73	0	0	0	0	0	0
7/7/2024 22:47	43301	WATS_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
7/7/2024 22:47	66701	STRA_T1	0	0	0	0	0	0	0.54	0.46	1	1	0	600	600	0
7/7/2024 22:47	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/7/2024 22:47	61701	ELIZ_T1	1	1	0	4.1	4.2	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/7/2024 22:47	61703	ELIZ_T1	0	0	0	0	0	0	-4.92	-5	4	4	0	4200	4200	0
7/7/2024 22:47	46206	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 22:47	65603	QVIL_T2	0	0	0	0	0	0	1.42	1.33	0	0	0	0	0	0
7/7/2024 22:47	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 22:47	42902	MIDD_T2	0	1	1	0	0.1	0.1	-1.04	-1.07	1	1	0	600	600	0
7/7/2024 22:47	43304	WATS_T2	4	0	-4	0.13	0	-0.13	-0.71	-0.74	0	0	0	0	0	0
7/7/2024 22:47	61102	BERK_T5	0	0	0	0	0	0	0.38	0.37	1	1	0	300	300	0
7/7/2024 22:47	52401	GRPA_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
7/7/2024 22:47	52402	GRPA_T2	0	1	1	0	0.3	0.3	-0.49	-0.53	0	0	0	0	0	0
7/7/2024 22:48	53903	HALI_T2	2	2	0	0.5	1	0.5	0	0	0	0	0	0	0	0
7/7/2024 22:48	57301	MOAL_T2	3	4	1	0.4	0.4	0.75	0.72	0	0	0	0	0	0	0
7/7/2024 22:48	52401	GRPA_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
7/7/2024 22:48	43201	MVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 22:48	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/7/2024 22:48	57303	MOAL_T2	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
7/7/2024 22:48	67203	TEHI_T1	0	0	0	0	0	0	2.05	2.04	1	1	0	900	900	0
7/7/2024 22:48	61702	ELIZ_T2	0	0	0	0	0	0	-1.3	-1.37	2	2	0	1500	1500	0
7/7/2024 22:48	64101	REFR_T1	0	0	0	0	0	0	-0.21	0.91	0	0	0	0	0	0
7/7/2024 22:48	42701	AUGU_T1	21	9	-12	0.48	0.48	0	0	0	4	4	0	3600	3600	0
7/7/2024 22:48	55001	NEWP_T1	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
7/7/2024 22:48	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:48	43202	MVIL_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
7/7/2024 22:48	49804	UNIV_T1	2	10	8	0.1	0.17	0.07	0.97	0.97	0	0	0	0	0	0
7/7/2024 22:48	56501	ROCK_T2	149	89	-60	0.28	0.23	-0.05	-5.03	-5.27	0	0	0	0	0	0
7/7/2024 22:48	59101	WALK_T2	0	0	0	0	0	0	1.43	1.49	4	4	0	2400	2400	0
7/7/2024 22:48	63304	GREE_T1	0	8	8	0	0.24	0.24	-2.46	-2.5	0	0	0	0	0	0
7/7/2024 22:48	44301	BEAV_T2	1	1	0	0.8	0	-0.8	-0.19	-0.22	1	1	0	600	600	0
7/7/2024 22:48	63305	GREE_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
7/7/2024 22:48	55002	NEWP_T1	3	4	1	0.53	0.8	0.27	0	0	0	0	0	0	0	0
7/7/2024 22:48	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/7/2024 22:48	52402	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/7/2024 22:48	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:48	63401	HONY_T1	0	0	0	0	0	0	0.12	0.17	3	3	0	1800	1800	0
7/7/2024 22:48	52403	GRPA_T2	64	14	-50	0.57	0.63	0.06	0	0	0	0	0	0	0	0
7/7/2024 22:48	57302	MOAL_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:48	53902	HALI_T2	1	1	0	5.1	5.7	0.6	-0.86	-0.72	0	0	0	0	0	0
7/7/2024 22:48	67602	WARW_T2	0	0	0	0	0	0	1.77	1.63	0	0	0	0	0	0
7/7/2024 22:48	42201	SHEN_T2	0	0	0	0	0	0	0.35	0.36	1	1	0	600	600	0
7/7/2024 22:48	60201	ATGL_T2	0	0	0	0	0	0	0.55	0.52	1	1	0	300	300	0
7/7/2024 22:49	20603	GRWO_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
7/7/2024 22:49	57401	SPAN_T1	0	1	1	0	0	0	-1.19	-0.58	1	1	0	600	600	0
7/7/2024 22:49	24901	WHHA_T1	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
7/7/2024 22:49	56501	ROCK_T2	149	89	-60	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
7/7/2024 22:49	57403	SPAN_T1	1	1	0	2.3	0	-2.3	0	0	0	0	0	0	0	0
7/7/2024 22:49	46203	DANV_T2	0	0	0	0	0	0	-1.57	-1.56	0	0	0	0	0	0
7/7/2024 22:49	54501	ENOL_T2	0	0	0	0	0	0	-0.02	-0.06	1	1	0	600	600	0
7/7/2024 22:49	44902	SCOT_T2	0	0	0	0	0	0	-0.58	-0.61	0	0	0	0	0	0
7/7/2024 22:49	56504	ROCK_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
7/7/2024 22:49	58803	COCO_T1	1	1	0	1.1	0.9	-0.2	-1.02	-1.12	1	1	0	600	600	0
7/7/2024 22:49	46206	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 22:49	64101	REFR_T1	0	0	0	0	0	0	-0.11	0.46	0	0	0	0	0	0
7/7/2024 22:49	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/7/2024 22:49	49803	UNIV_T1	0	0	0	0	0	0	-1.97	-2.01	0	0	0	0	0	0
7/7/2024 22:49	20601	GRWO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:49	49804	UNIV_T1	2	10	8	0.1	0.17	0.07	0	0	0	0	0	0	0	0
7/7/2024 22:50	67605	WARW_T1	0	0	0	0	0	0	-1.89	-1.97	0	0	0	0	0	0
7/7/2024 22:50	47002	HUGH_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
7/7/2024 22:50	56504	ROCK_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
7/7/2024 22:50	56801	BENV_T1	9	5	-4	0.87	1.72	0.85	-1.74	-0.7	4	2	-2	2400	1200	-1200
7/7/2024 22:50	58001	WCAR_T1	5	0	-5	0.34	0	-0.34	0	0	0	0	0	0	0	0
7/7/2024 22:50	47401	PENS_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
7/7/2024 22:50	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:50	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 22:50	58003	WCAR_T1	2	1	-1	0.8	1.2	0.4	0.43	0.39	1	1	0	600	600	0
7/7/2024 22:50	43301	WATS_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
7/7/2024 22:50	55101	WERT_T1	0	0	0	0	0	0	-5.08	-3.46	8	6	-2	6600	4800	-1800
7/7/2024 22:50	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/7/2024 22:50	15101	LIPHA_T1	0	0	0	0	0	0	0.47	0.4	0	0	0	0	0	0
7/7/2024 22:50	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:50	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 22:50	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.6	0.53	0	0	0	0	0	0
7/7/2024 22:50	43201	MVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 22:50	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:50	47001	HUGH_T2	3	10	7	8.17	2.9	-5.27	-1.65	-1.65	1	1	0	900	900	0
7/7/2024 22:50	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:50	14801	TREI_T2	165	140	-25	1.04	0.6	-0.44	0	0	0	0	0	0	0	0
7/7/2024 22:50	43304	WATS_T2	4	0	-4	0.13	0	-0.13	-0.71	-0.74	0	0	0	0	0	0
7/7/2024 22:50	66703	STRA_T1	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
7/7/2024 22:50	43202	MVIL_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
7/7/2024 22:50	40602	PIGR_T1	0	0	0	0	0	0	-1.32	-1.31	1	1	0	600	600	0
7/7/2024 22:50	56501	ROCK_T2	149	89	-60	0.28	0.23	-0.05	-5.03	-5.27	0	0	0	0	0	0
7/7/2024 22:50	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:50	20401	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/7/2024 22:50	64101	REFR_T1	0	0	0	0	0	0	-0.11	0.46	0	0	0	0	0	0
7/7/2024 22:50	47101	MARL_T1	18	19	1	0.39	0.37	-0.02	-0.34	0.36	0	0	0	0	0	0
7/7/2024 22:50	67602	WARW_T2	0	0	0	0	0	0	0.89	0.82	0	0	0	0	0	0
7/7/2024 22:50	20403	ASHF_T2	0	0	0	0	0	0	0.76	0.67	0	0	0	0	0	0
7/7/2024 22:51	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:51	59101	WALK_T2	0	0	0	0	0	0	0.72	0.74	2	2	0	1200	1200	0
7/7/2024 22:51	46801	HEPB_T2	9	41	32	0.41	0.38	-0.03	0	0	0	0	0	0	0	0
7/7/2024 22:51	51804	EBEN_T2	0	0	0	0	0	0	-0.93	-0.95	1	1	0	900	900	0
7/7/2024 22:51	47101	MARL_T1	18	19	1	0.39	0.37	-0.02	-0.68	-0.72	0	0	0	0	0	0
7/7/2024 22:51	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/7/2024 22:51	46203	DANV_T2	0	0	0	0	0	0	-4.68	-4.83	0	0	0	0	0	0
7/7/2024 22:51	40101	HUNT_T2	0	1	1	0	0	0	-0.94	-0.93	0	0	0	0	0	0
7/7/2024 22:51	65802	RTWN_T2	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
7/7/2024 22:51	40902	JESH_T1	0	0	0	0	0	0	-1.51	-0.94	2	2	0	1200	1200	0
7/7/2024 22:51	61703	ELIZ_T1	0	0	0	0	0	0	-2.5	-2.12	2	2	0	2100	2100	0
7/7/2024 22:51	61701	ELIZ_T1	1	1	0	4.1	4.2	0.1	0	0	0	0	0	0	0	0
7/7/2024 22:51	44801	EDAN_T2	1	1	0	0.7	0.3	-0.4	0.74	0.73	0	0	0	0	0	0
7/7/2024 22:51	43301	WATS_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
7/7/2024 22:51	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/7/2024 22:51	46206	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 22:51	56801	BENV_T1	9	5	-4	0.87	1.72	0.85	-0.87	-0.35	2	1	-1	1200	600	-600
7/7/2024 22:51	66701	STRA_T1	0	0	0	0	0	0	0.46	0.43	1	1	0	600	600	0
7/7/2024 22:51	46803	HEPB_T2	1	18	17	0.2	0.21	0.01	0.66	0.68	0	0	0	0	0	0
7/7/2024 22:51	67901	WHHO_T2	57	99	42	0.3	0.39	0.09	-0.48	-0.53	1	1	0	900	900	0
7/7/2024 22:51	40603	PIGR_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
7/7/2024 22:51	40901	JESH_T1	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
7/7/2024 22:51	12701	MACU_T1	0	0	0	0	0	0	-0.8	-0.81	1	1	0	1200	1200	0
7/7/2024 22:51	43304	WATS_T2	4	0	-4	0.13	0	-0.13	-0.74	-0.74	0	0	0	0	0	0
7/7/2024 22:52	46803	HEPB_T2	1	18	17	0.2	0.21	0.01	0	0	0	0	0	0	0	0
7/7/2024 22:52	64201	KINZ_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
7/7/2024 22:52	44201	POIN_T1	0	40	40	0	0.16	0.16	-2	-2.05	1	1	0	1200	1200	0
7/7/2024 22:52	42201	SHEN_T2	0	0	0	0	0	0	0.72	0.7	2	2	0	1200	1200	0
7/7/2024 22:52	46102	MACI_T1	0	0	0	0	0	0	0.95	0.96	0	0	0	0	0	0
7/7/2024 22:52	52403	GRPA_T2	64	14	-50	0.57	0.63	0.06	0	0	0	0	0	0	0	0
7/7/2024 22:52	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:52	61402	SLIT_T1	1	1	0	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
7/7/2024 22:52	64203	KINZ_T1	0	0	0	0	0	0	-0.12	-0.03	1	1	0	600	600	0
7/7/2024 22:52	56801	BENV_T1	9	5	-4	0.87	1.72	0.85	-0.7	-0.76	2	2	0	1200	1200	0
7/7/2024 22:52	46801	HEPB_T2	9	41	32	0.41	0.38	-0.03	0.06	0.03	0	0	0	0	0	0
7/7/2024 22:52	64204	KINZ_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
7/7/2024 22:52	61404	SLIT_T1	1	3	2	0.4	0	-0.4	0.51	0.52	0	0	0	0	0	0
7/7/2024 22:52	43201	MVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/7/2024 22:52	58402	MORO_T1	2	0	-2	0.1	0	-0.1	0.02	0	2	2	0	1500	1500	0
7/7/2024 22:52	55101	WERT_T1	0	0	0	0	0	0	-1.73	-1.78	3	3	0	2400	2400	0
7/7/2024 22:52	20603	GRWO_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
7/7/2024 22:52	67605	WARW_T1	0	0	0	0	0	0	-0.98	-0.87	0	0	0	0	0	0
7/7/2024 22:52	61401	SLIT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 22:52	47401	PENS_T1	0	0	0	0	0	0	0.12	0.06	0	0	0	0	0	0
7/7/2024 22:52	64202	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/7/2024 22:52	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:52	20601	GRWO_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
7/7/2024 22:52	52002	LING_T2	0	0	0	0	0	0	-0.24	-0.29	0	0	0	0	0	0
7/7/2024 22:52	43202	MVIL_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
7/7/2024 22:52	52402	GRPA_T2	0	1	1	0	0.3	0.3	-0.53	-0.54	0	0	0	0	0	0
7/7/2024 22:53	56801	BENV_T1	9	5	-4	0.87	1.72	0.85	-0.7	-0.76	2	2	0	1200	1200	0
7/7/2024 22:53	41902	REED_T1	0	0	0	0	0	0	0.18	0.16	1	1	0	900	900	0
7/7/2024 22:53	57101	SPHI_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/7/2024 22:53	41901	REED_T1	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
7/7/2024 22:53	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:53	54701	NEBL_T1	1	3	2	1.1	1.05	-0.05	0	0	1	1	0	600	600	0
7/7/2024 22:53	57102	SPHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:53	52403	GRPA_T2	64	14	-50	0.57	0.63	0.06	-0.17	-0.19	0	0	0	0	0	0
7/7/2024 22:53	43402	BENT_T1	0	0	0	0	0	0	-0.78	-0.79	1	1	0	900	900	0
7/7/2024 22:53	13105	NHAM_T2	6	23	17	1.6	1.14	-0.46	-1.17	-1.24	1	1	0	1200	1200	0
7/7/2024 22:53	57104	SPHI_T2	0	0	0	0	0	0	-1.09	-1.2	1	1	0	900	900	0
7/7/2024 22:53	61301	EARL_T1	0	0	0	0	0	0	-0.26	-0.28	1	1	0	900	900	0
7/7/2024 22:53	64101	REFR_T1	0	0	0	0	0	0	0.46	0.64	0	0	0	0	0	0
7/7/2024 22:53	56501	ROCK_T2	149	89	-60	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
7/7/2024 22:53	57106	SPHI_T2	3	3	0	1.13	1.13	0	0	0	0	0	0	0	0	0
7/7/2024 22:53	52402	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/7/2024 22:53	56504	ROCK_T2	0	0	0	0	0	0	0.15	0.07	0	0	0	0	0	0
7/7/2024 22:53	44301	BEAV_T2	1	1	0	0.8	0	-0.8	-0.22	-0.17	1	1	0	600	600	0
7/7/2024 22:54	55002	NEWP_T1	3	4	1	0.53	0.8	0.27	0	0	0	0	0	0	0	0
7/7/2024 22:54	42902	MIDD_T2	0	1	1	0	0.1	0.1	-1.07	-1.09	1	1	0	600	600	0
7/7/2024 22:54	55001	NEWP_T1	0	0	0	0	0	0	-1.17	-0.06	0	0	0	0	0	0
7/7/2024 22:54	42903	MIDD_T2	2	2	0	0.55	1	0.45	0	0	0	0	0	0	0	0
7/7/2024 22:54	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:54	52402	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/7/2024 22:54	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/7/2024 22:54	52403	GRPA_T2	64	14	-50	0.57	0.63	0.06	-0.34	-0.38	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/7/2024 22:54	40901	JESH_T1	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
7/7/2024 22:54	52002	LING_T2	0	0	0	0	0	0	-0.24	-0.29	0	0	0	0	0	0
7/7/2024 22:54	14801	TREI_T2	165	140	-25	1.04	0.6	-0.44	0	0	0	0	0	0	0	0
7/7/2024 22:54	46302	ROHR_T1	4	4	0	1.13	1.33	0.2	0.32	0.31	0	0	0	0	0	0
7/7/2024 22:54	40101	HUNT_T2	0	1	1	0	0	0	-0.93	-0.95	0	0	0	0	0	0
7/7/2024 22:54	40902	JESH_T1	0	0	0	0	0	0	-1.51	-0.94	2	1	-1	1200	600	-600
7/7/2024 22:54	59101	WALK_T2	0	0	0	0	0	0	0.74	0.43	2	2	0	1200	1200	0
7/7/2024 22:55	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:55	46203	DANV_T2	0	0	0	0	0	0	-1.56	-1.61	0	0	0	0	0	0
7/7/2024 22:55	46206	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/7/2024 22:55	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:55	64101	REFR_T1	0	0	0	0	0	0	0.46	0.64	0	0	0	0	0	0
7/7/2024 22:55	45302	WBER_T2	0	0	0	0	0	0	1.32	1.25	0	0	0	0	0	0
7/7/2024 22:55	47401	PENS_T1	0	0	0	0	0	0	0.24	0.12	0	0	0	0	0	0
7/7/2024 22:55	40502	CRES_T2	10	13	3	0.28	0.32	0.04	-0.86	-0.98	0	0	0	0	0	0
7/7/2024 22:55	41901	REED_T1	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
7/7/2024 22:55	55003	NEWP_T2	0	0	0	0	0	0	-0.54	-0.58	0	0	0	0	0	0
7/7/2024 22:55	43402	BENT_T1	0	0	0	0	0	0	-0.78	-0.79	1	1	0	900	900	0
7/7/2024 22:55	41902	REED_T1	0	0	0	0	0	0	0.35	0.32	2	2	0	1800	1800	0
7/7/2024 22:55	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/7/2024 22:56	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:56	27605	PIRI_T2	32	16	-16	0.6	0.16	-0.44	0.88	0.8	0	0	0	0	0	0
7/7/2024 22:56	45801	HEGI_T1	0	0	0	0	0	0	-0.41	-0.4	1	1	0	900	900	0
7/7/2024 22:56	47101	MARL_T1	18	19	1	0.39	0.37	-0.02	-0.36	-0.41	0	0	0	0	0	0
7/7/2024 22:57	49804	UNIV_T1	2	10	8	0.1	0.17	0.07	0.97	0.94	0	0	0	0	0	0
7/7/2024 22:57	42902	MIDD_T2	0	1	1	0	0.1	0.1	-1.07	-1.09	1	1	0	600	600	0
7/7/2024 22:57	42903	MIDD_T2	2	2	0	0.55	1	0.45	0	0	0	0	0	0	0	0
7/7/2024 22:57	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/7/2024 22:57	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/7/2024 22:57	59101	WALK_T2	0	0	0	0	0	0	0.74	0.43	2	2	0	1200	1200	0
7/7/2024 22:57	56801	BENV_T1	9	5	-4	0.87	1.72	0.85	-0.35	-0.38	1	1	0	600	600	0
7/7/2024 22:58	63305	GREE_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
7/7/2024 22:58	63304	GREE_T1	0	8	8	0	0.24	0.24	2.5	-2.58	0	0	0	0	0	0
7/7/2024 22:58	52002	LING_T2	0	0	0	0	0	0	-0.24	-0.29	0	0	0	0	0	0
7/7/2024 23:00	45602	WOOL_T1	13	19	6	0.27	0.41	0.14	0.41	0.38	0	0	0	0	0	0
7/7/2024 23:22	54701	NEBL_T1	2	2	0	1.05	0.8	-0.25	0	0	1	1	0	600	600	0
7/7/2024 23:35	64203	KINZ_T1	0	26	26	0	0.15	0.15	0.07	0	1	1	0	600	600	0
7/7/2024 23:35	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.93	-0.99	0	0	0	0	0	0
7/7/2024 23:35	64204	KINZ_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
7/7/2024 23:35	61301	EARL_T1	0	0	0	0	0	0	-0.33	-0.33	1	1	0	900	900	0
7/7/2024 23:35	64202	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/7/2024 23:35	64201	KINZ_T1	1	11	10	1.2	0.22	-0.98	0	0	0	0	0	0	0	0
7/7/2024 23:36	64201	KINZ_T1	1	11	10	1.2	0.22	-0.98	0	0	0	0	0	0	0	0
7/7/2024 23:36	61301	EARL_T1	0	0	0	0	0	0	-0.33	-0.33	1	1	0	900	900	0
7/7/2024 23:36	64202	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/7/2024 23:36	64204	KINZ_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
7/7/2024 23:36	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.93	-0.99	0	0	0	0	0	0
7/7/2024 23:36	64203	KINZ_T1	0	26	26	0	0.15	0.15	0.07	0	1	1	0	600	600	0
7/7/2024 23:46	13904	SEID_T1	4	1	-3	0.23	0	-0.23	-0.47	-0.46	0	0	0	0	0	0
7/8/2024 0:18	61301	EARL_T1	0	0	0	0	0	0	-0.35	-0.32	1	1	0	900	900	0
7/8/2024 0:18	64201	KINZ_T1	4	6	2	0.33	0.35	0.02	0	0	0	0	0	0	0	0
7/8/2024 0:18	64203	KINZ_T1	3	0	-3	0.1	0	-0.1	-0.09	0.57	1	0	-1	600	0	-600
7/8/2024 0:18	64204	KINZ_T1	2	6	4	0.75	0.27	-0.48	0	0	0	0	0	0	0	0
7/8/2024 0:18	64202	KINZ_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
7/8/2024 0:18	67605	WARW_T1	0	0	0	0	0	0	-1.06	-0.94	0	0	0	0	0	0
7/8/2024 0:19	64203	KINZ_T1	3	0	-3	0.1	0	-0.1	-0.09	0.57	1	0	-1	600	0	-600
7/8/2024 0:19	61301	EARL_T1	0	0	0	0	0	0	-0.35	-0.32	1	1	0	900	900	0
7/8/2024 0:19	64204	KINZ_T1	2	6	4	0.75	0.27	-0.48	0	0	0	0	0	0	0	0
7/8/2024 0:19	64202	KINZ_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
7/8/2024 0:19	64201	KINZ_T1	4	6	2	0.33	0.35	0.02	0	0	0	0	0	0	0	0
7/8/2024 0:19	67605	WARW_T1	0	0	0	0	0	0	-1.06	-0.94	0	0	0	0	0	0
7/8/2024 0:25	45801	HEGI_T1	0	0	0	0	0	0	-0.5	-0.48	1	1	0	900	900	0
7/8/2024 0:40	64204	KINZ_T1	1	10	9	0.8	0.24	-0.56	0	0	0	0	0	0	0	0
7/8/2024 0:40	64201	KINZ_T1	1	15	14	1.2	0.22	-0.98	0	0	0	0	0	0	0	0
7/8/2024 0:40	67605	WARW_T1	0	0	0	0	0	0	-0.98	-1	0	0	0	0	0	0
7/8/2024 0:40	64203	KINZ_T1	0	0	0	0	0	0	0.54	0.49	0	0	0	0	0	0
7/8/2024 0:40	64202	KINZ_T1	0	3	3	0	0.63	0.63	0	0	0	0	0	0	0	0
7/8/2024 0:40	61301	EARL_T1	0	0	0	0	0	0	-0.36	-0.36	1	1	0	900	900	0
7/8/2024 0:41	67605	WARW_T1	0	0	0	0	0	0	-0.98	-1	0	0	0	0	0	0
7/8/2024 0:41	64202	KINZ_T1	0	3	3	0	0.63	0.63	0	0	0	0	0	0	0	0
7/8/2024 0:41	64203	KINZ_T1	0	0	0	0	0	0	0.54	0.49	0	0	0	0	0	0
7/8/2024 0:41	61301	EARL_T1	0	0	0	0	0	0	-0.36	-0.36	1	1	0	900	900	0
7/8/2024 0:41	64201	KINZ_T1	1	15	14	1.2	0.22	-0.98	0	0	0	0	0	0	0	0
7/8/2024 0:41	64204	KINZ_T1	1	10	9	0.8	0.24	-0.56	0	0	0	0	0	0	0	0
7/8/2024 0:48	65603	QVIL_T2	0	11	11	0	0.18	0.18	0.48	0.42	0	0	0	0	0	0
7/8/2024 0:48	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/8/2024 0:48	65601	QVIL_T2	1	105	104	0.1	0.17	0.07	0	0	0	0	0	0	0	0
7/8/2024 0:48	65604	QVIL_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
7/8/2024 1:02	67605	WARW_T1	0	6	6	0	0.1	0.1	-1	-0.9	0	0	0	0	0	0
7/8/2024 1:02	64201	KINZ_T1	15	29	14	0.22	0.23	0.01	0	0	0	0	0	0	0	0
7/8/2024 1:02	64204	KINZ_T1	10	18	8	0.24	0.25	0.01	0	0	0	0	0	0	0	0
7/8/2024 1:02	61301	EARL_T1	0	0	0	0	0	0	-0.36	-0.37	1	1	0	900	900	0
7/8/2024 1:02	64203	KINZ_T1	0	18	18	0	0.13	0.13	0.49	0.51	0	0	0	0	0	0
7/8/2024 1:02	64202	KINZ_T1	3	6	3	0.63	0.43	-0.2	0	0	0	0	0	0	0	0
7/8/2024 1:02	61304	EARL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/8/2024 1:03	64203	KINZ_T1	0	18	18	0	0.13	0.13	0.49	0.51	0	0	0	0	0	0
7/8/2024 1:03	67605	WARW_T1	0	6	6	0	0.1	0.1	-1	-0.9	0	0	0	0	0	0
7/8/2024 1:03	64201	KINZ_T1	15	29	14	0.22	0.23	0.01	0	0	0	0	0	0	0	0
7/8/2024 1:03	61304	EARL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/8/2024 1:03	64204	KINZ_T1	10	18	8	0.24	0.25	0.01	0	0	0	0	0	0	0	0
7/8/2024 1:03	61301	EARL_T1	0	0	0	0	0	0	-0.36	-0.37	1	1	0	900	900	0
7/8/2024 1:03	64202	KINZ_T1	3	6	3	0.63	0.43	-0.2	0	0	0	0	0	0	0	0
7/8/2024 1:22	58705	ROSE_T2	5	5	0	1.6	1.78	0.18	0	0	0	0	0	0	0	0
7/8/2024 1:22	58706	ROSE_T2	1	1	0	1	0.8	-0.2	0.7	0.69	1	1	0	600	600	0
7/8/2024 2:09	64201	KINZ_T1	1	5	4	0.5	0.36	-0.14	0	0	0	0	0	0	0	0
7/8/2024 2:09	64203	KINZ_T1	0	0	0	0	0	0	0.54	0.41	0	0	0	0	0	0
7/8/2024 2:09	64202	KINZ_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
7/8/2024 2:09	67605	WARW_T1	13	15	2	0.26	0.27	0.01	-0.99	-1.02	0	0	0	0	0	0
7/8/2024 2:09	64204	KINZ_T1	1	12	11	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/8/2024 2:09	61301	EARL_T1	0	0	0	0	0	0	-0.38	0.26	1	0	-1	900	0	-900
7/8/2024 2:10	64202	KINZ_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
7/8/2024 2:10	61301	EARL_T1	0	0	0	0	0	0	-0.38	0.26	1	0	-1	900	0	-900
7/8/2024 2:10	64201	KINZ_T1	1	5	4	0.5	0.36	-0.14	0	0	0	0	0	0	0	0
7/8/2024 2:10	64204	KINZ_T1	1	12	11	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/8/2024 2:10	67605	WARW_T1	13	15	2	0.26	0.27	0.01	-0.99	-1.02	0	0	0	0	0	0
7/8/2024 2:10	64203	KINZ_T1	0	0	0	0	0	0	0.54	0.41	0	0	0	0	0	0
7/8/2024 2:31	67605	WARW_T1	15	18	3	0.27	0.39	0.12	-1.02	-0.99	0	0	0	0	0	0
7/8/2024 2:31	64203	KINZ_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
7/8/2024 2:31	64204	KINZ_T1	12	12	0	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
7/8/2024 2:31	64201	KINZ_T1	5	5	0	0.36	0.36	0	0	0	0	0	0	0	0	0
7/8/2024 2:31	64202	KINZ_T1	3	3	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
7/8/2024 2:31	61301	EARL_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
7/8/2024 2:32	67605	WARW_T1	15	18	3	0.27	0.39	0.12	-1.02	-0.99	0	0	0	0	0	0
7/8/2024 2:32	64202	KINZ_T1	3	3	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
7/8/2024 2:32	61301	EARL_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
7/8/2024 2:32	64201	KINZ_T1	5	5	0	0.36	0.36	0	0	0	0	0	0	0	0	0
7/8/2024 2:32	64204	KINZ_T1	12	12	0	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
7/8/2024 2:32	64203	KINZ_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
7/8/2024 2:32	58803	COCO_T1	1	1	0	1.8	2	0.2	-1	-1.04	0	0	0	0	0	0
7/8/2024 2:52	65901	SAKR_T2	1	1	0	8.1	8.6	0.5	-0.99	-1	1	1	0	900	900	0
7/8/2024 3:16	64202	KINZ_T1	5	2	-3	0.28	0.15	-0.13	0	0	0	0	0	0	0	0
7/8/2024 3:16	67605	WARW_T1	28	45	17	0.35	0.36	0.01	-1.03	-1.01	0	0	0	0	0	0
7/8/2024 3:16	64204	KINZ_T1	17	1	-16	0.24	0.6	0.36	0	0	0	0	0	0	0	0
7/8/2024 3:16	64201	KINZ_T1	7	1	-6	0.36	0.7	0.34	0	0	0	0	0	0	0	0
7/8/2024 3:16	64203	KINZ_T1	0	0	0	0	0	0	0.54	0.48	0	0	0	0	0	0
7/8/2024 3:16	61301	EARL_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
7/8/2024 3:17	64203	KINZ_T1	0	0	0	0	0	0	0.54	0.48	0	0	0	0	0	0
7/8/2024 3:17	64202	KINZ_T1	5	2	-3	0.28	0.15	-0.13	0	0	0	0	0	0	0	0
7/8/2024 3:17	67605	WARW_T1	28	45	17	0.35	0.36	0.01	-1.03	-1.01	0	0	0	0	0	0
7/8/2024 3:17	64201	KINZ_T1	7	1	-6	0.36	0.7	0.34	0	0	0	0	0	0	0	0
7/8/2024 3:17	61301	EARL_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
7/8/2024 3:17	64204	KINZ_T1	17	1	-16	0.24	0.6	0.36	0	0	0	0	0	0	0	0
7/8/2024 3:38	61301	EARL_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
7/8/2024 3:38	67605	WARW_T1	39	28	-11	0.28	0.52	0.24	-1.06	-1.04	0	0	0	0	0	0
7/8/2024 3:38	64204	KINZ_T1	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
7/8/2024 3:38	64203	KINZ_T1	0	0	0	0	0	0	0.51	0.42	0	0	0	0	0	0
7/8/2024 3:38	64201	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
7/8/2024 3:38	64202	KINZ_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
7/8/2024 3:39	67605	WARW_T1	39	28	-11	0.28	0.52	0.24	-1.06	-1.04	0	0	0	0	0	0
7/8/2024 3:39	64201	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
7/8/2024 3:39	64203	KINZ_T1	0	0	0	0	0	0	0.51	0.42	0	0	0	0	0	0
7/8/2024 3:39	64202	KINZ_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
7/8/2024 3:39	64204	KINZ_T1	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
7/8/2024 3:39	61301	EARL_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
7/8/2024 4:00	64204	KINZ_T1	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
7/8/2024 4:00	64203	KINZ_T1	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
7/8/2024 4:00	61301	EARL_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
7/8/2024 4:00	67605	WARW_T1	28	24	-4	0.48	0.51	0.03	-1.04	-1.09	0	0	0	0	0	0
7/8/2024 4:00	64202	KINZ_T1	2	3	1	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
7/8/2024 4:00	64201	KINZ_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
7/8/2024 4:01	64201	KINZ_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
7/8/2024 4:01	64202	KINZ_T1	2	3	1	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
7/8/2024 4:01	67605	WARW_T1	28	24	-4	0.48	0.51	0.03	-1.04	-1.09	0	0	0	0	0	0
7/8/2024 4:01	64204	KINZ_T1	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
7/8/2024 4:01	61301	EARL_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
7/8/2024 4:01	64203	KINZ_T1	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
7/8/2024 4:20	63201	MGTN_T2	0	0	0	0	0	0	1.48	1.52	1	1	0	600	600	0
7/8/2024 6:26	43402	BENT_T1	0	0	0	0	0	0	-0.8	-0.8	1	1	0	900	900	0
7/8/2024 6:45	11103	EGYP_T1	0	0	0	0	0	0	-0.75	-0.8	0	0	0	0	0	0
7/8/2024 6:55	62102	ELAN_T1	0	0	0	0	0	0	0.89	0.95	0	0	0	0	0	0
7/8/2024 6:55	43402	BENT_T1	0	0	0	0	0	0	-1.41	-0.78	2	1	-1	1500	900	-600
7/8/2024 6:58	43402	BENT_T1	0	0	0	0	0	0	-1.41	-0.78	2	1	-1	1500	900	-600
7/8/2024 7:01	52403	GRPA_T2	3	6	3	0.7	0.25	-0.45	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/8/2024 7:01	52404	GRPA_T2	0	0	0	0	0	0	0.67	0.78	0	0	0	0	0	0
7/8/2024 7:05	56501	ROCK_T2	0	2	2	0	0.2	0.2	-1.69	-1.65	0	0	0	0	0	0
7/8/2024 7:07	56501	ROCK_T2	0	2	2	0	0.2	0.2	-1.65	-1.62	0	0	0	0	0	0
7/8/2024 7:09	55105	WERT_T1	0	0	0	0	0	0	-0.22	-0.11	1	1	0	900	900	0
7/8/2024 7:10	61703	ELIZ_T1	0	0	0	0	0	0	-2.25	-2.27	2	2	0	2100	2100	0
7/8/2024 7:10	61701	ELIZ_T1	1	1	0	3.7	5.2	1.5	0	0	0	0	0	0	0	0
7/8/2024 7:11	43304	WATS_T2	0	0	0	0	0	0	-0.04	0.01	1	1	0	600	600	0
7/8/2024 7:20	56501	ROCK_T2	1	1	0	0.2	0.1	-0.1	-3.29	-3.23	0	0	0	0	0	0
7/8/2024 7:21	67503	WEWI_T2	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
7/8/2024 7:22	56501	ROCK_T2	1	1	0	0.2	0.1	-0.1	-1.62	-1.62	0	0	0	0	0	0
7/8/2024 7:27	56801	BENV_T1	4	6	2	0.4	0.37	-0.03	-0.65	-0.63	1	1	0	600	600	0
7/8/2024 7:29	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
7/8/2024 7:31	13501	MCMI_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
7/8/2024 7:37	14601	SWHI_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
7/8/2024 7:38	14601	SWHI_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
7/8/2024 7:39	20401	ASHF_T2	1	1	0	0.1	0	-0.1	0.06	0.13	0	0	0	0	0	0
7/8/2024 7:41	62104	ELAN_T1	0	0	0	0	0	0	1.06	1.04	2	2	0	1500	1500	0
7/8/2024 7:42	22003	BOHE_T1	416	203	-213	0.7	0.27	-0.43	0	0	0	0	0	0	0	0
7/8/2024 7:42	22002	BOHE_T1	10	0	-10	0.23	0	-0.23	0.42	0.44	0	0	0	0	0	0
7/8/2024 7:42	22001	BOHE_T1	182	0	-182	0.29	0	-0.29	0	0	0	0	0	0	0	0
7/8/2024 7:44	45802	HEGI_T2	172	143	-29	1	0.56	-0.44	1.09	0.75	2	2	0	1200	1200	0
7/8/2024 7:44	20603	GRWO_T2	0	0	0	0	0	0	-1.82	-1.76	2	2	0	2100	2100	0
7/8/2024 7:46	52402	GRPA_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
7/8/2024 7:46	52404	GRPA_T2	0	0	0	0	0	0	0.81	0.84	0	0	0	0	0	0
7/8/2024 7:46	52403	GRPA_T2	6	4	-2	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
7/8/2024 7:47	67605	WARW_T1	0	0	0	0	0	0	-0.74	-0.71	0	0	0	0	0	0
7/8/2024 7:47	55002	NEWP_T1	4	9	5	0.83	0.59	-0.24	-0.14	-0.1	0	0	0	0	0	0
7/8/2024 7:48	55002	NEWP_T1	4	9	5	0.83	0.59	-0.24	-0.14	-0.1	0	0	0	0	0	0
7/8/2024 7:48	65603	QVIL_T2	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
7/8/2024 7:51	55002	NEWP_T1	4	9	5	0.83	0.59	-0.24	-0.14	-0.1	0	0	0	0	0	0
7/8/2024 7:52	14404	SSLA_T1	2	2	0	2.15	1.95	-0.2	0.14	0.12	0	0	0	0	0	0
7/8/2024 7:52	14401	SSLA_T1	48	7	-41	0.16	0.11	-0.05	0	0	0	0	0	0	0	0
7/8/2024 7:54	14401	SSLA_T1	48	7	-41	0.16	0.11	-0.05	0	0	0	0	0	0	0	0
7/8/2024 7:54	14404	SSLA_T1	2	2	0	2.15	1.95	-0.2	0.14	0.12	0	0	0	0	0	0
7/8/2024 7:56	62102	ELAN_T1	0	0	0	0	0	0	1.13	1	0	0	0	0	0	0
7/8/2024 7:56	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/8/2024 7:56	29402	BELT_T1	1	1	0	8	7.7	-0.3	0	0	0	0	0	0	0	0
7/8/2024 7:56	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/8/2024 7:56	40802	EXCH_T2	0	1	1	0	0.3	0.3	-0.53	-0.44	0	0	0	0	0	0
7/8/2024 7:57	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/8/2024 7:57	40802	EXCH_T2	0	1	1	0	0.3	0.3	-0.53	-0.44	0	0	0	0	0	0
7/8/2024 7:58	22002	BOHE_T1	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
7/8/2024 7:58	20602	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 7:58	20601	GRWO_T2	0	0	0	0	0	0	0.35	0.76	0	0	0	0	0	0
7/8/2024 7:58	22003	BOHE_T1	197	148	-49	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
7/8/2024 7:58	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/8/2024 7:58	40802	EXCH_T2	0	1	1	0	0.3	0.3	-0.53	-0.44	0	0	0	0	0	0
7/8/2024 7:59	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/8/2024 7:59	40802	EXCH_T2	0	1	1	0	0.3	0.3	-0.53	-0.44	0	0	0	0	0	0
7/8/2024 8:03	40601	PIGR_T1	0	0	0	0	0	0	0.26	0.3	0	0	0	0	0	0
7/8/2024 8:03	12606	MACA_T1	1	16	15	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/8/2024 8:03	12601	MACA_T1	0	0	0	0	0	0	1.18	1.16	0	0	0	0	0	0
7/8/2024 8:04	40601	PIGR_T1	0	0	0	0	0	0	0.26	0.3	0	0	0	0	0	0
7/8/2024 8:07	55405	SHER_T1	0	11	11	0	0.52	0.52	0.09	0.09	0	0	0	0	0	0
7/8/2024 8:07	57403	SPAN_T1	11	24	13	0.2	0.31	0.11	0.2	0.21	0	0	0	0	0	0
7/8/2024 8:08	57403	SPAN_T1	11	24	13	0.2	0.31	0.11	0.39	0.41	0	0	0	0	0	0
7/8/2024 8:10	61801	ELLI_T2	0	0	0	0	0	0	-0.19	-0.18	1	1	0	600	600	0
7/8/2024 8:14	40505	CRES_T1	3	3	0	4.6	4.2	-0.4	0	0	0	0	0	0	0	0
7/8/2024 8:14	40504	CRES_T1	0	0	0	0	0	0	-2.88	-2.82	0	0	0	0	0	0
7/8/2024 8:18	44201	POIN_T1	0	0	0	0	0	0	-1.28	-1.62	2	2	0	2100	2100	0
7/8/2024 8:18	43202	MVIL_T2	55	59	4	0.39	0.4	0.01	-0.41	-0.44	0	0	0	0	0	0
7/8/2024 8:19	43202	MVIL_T2	55	59	4	0.39	0.4	0.01	-0.41	-0.44	0	0	0	0	0	0
7/8/2024 8:20	14404	SSLA_T1	2	2	0	1.7	1.7	0	0	0	0	0	0	0	0	0
7/8/2024 8:20	65603	QVIL_T2	0	0	0	0	0	0	0.94	0.95	0	0	0	0	0	0
7/8/2024 8:20	14401	SSLA_T1	0	0	0	0	0	0	-1.1	-1.1	2	2	0	1800	1800	0
7/8/2024 8:23	59101	WALK_T2	0	0	0	0	0	0	3.48	2.92	4	4	0	2400	2400	0
7/8/2024 8:25	59101	WALK_T2	0	0	0	0	0	0	1.74	1.46	2	2	0	1200	1200	0
7/8/2024 8:31	67605	WARW_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
7/8/2024 8:32	67605	WARW_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
7/8/2024 8:33	47403	PENS_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
7/8/2024 8:33	47401	PENS_T1	5	7	2	0.62	0.7	0.08	0.24	0.3	0	0	0	0	0	0
7/8/2024 8:34	43202	MVIL_T2	53	62	9	0.35	0.53	0.18	-0.44	-0.38	0	0	0	0	0	0
7/8/2024 8:36	47401	PENS_T1	5	7	2	0.62	0.7	0.08	0.3	0.34	0	0	0	0	0	0
7/8/2024 8:36	47403	PENS_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
7/8/2024 8:37	58006	WCAR_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
7/8/2024 8:39	55102	WERT_T2	0	0	0	0	0	0	-1.14	-1.11	2	2	0	1200	1200	0
7/8/2024 8:40	22002	BOHE_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
7/8/2024 8:40	47401	PENS_T1	5	7	2	0.62	0.7	0.08	0.3	0.34	0	0	0	0	0	0
7/8/2024 8:40	47403	PENS_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
7/8/2024 8:40	22003	BOHE_T1	5	6	1	0.36	0.45	0.09	0	0	0	0	0	0	0	0
7/8/2024 8:49	43202	MVIL_T2	58	62	4	0.4	0.53	0.13	-0.38	-0.38	0	0	0	0	0	0
7/8/2024 8:51	43202	MVIL_T2	58	62	4	0.4	0.53	0.13	-0.38	-0.34	0	0	0	0	0	0
7/8/2024 9:04	60502	NMAN_T2	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
7/8/2024 9:04	60501	NMAN_T2	3	3	0	3.33	3.3	-0.03	0	0	0	0	0	0	0	0
7/8/2024 9:06	60502	NMAN_T2	0	0	0	0	0	0	0.48	0.59	0	0	0	0	0	0
7/8/2024 9:06	60501	NMAN_T2	3	3	0	3.33	3.3	-0.03	0	0	0	0	0	0	0	0
7/8/2024 9:08	20401	ASHF_T2	2	4	2	0.6	0.6	0	0	0	0	0	0	0	0	0
7/8/2024 9:08	24902	WHHA_T1	0	1	1	0	1.6	1.6	0.85	0.89	0	0	0	0	0	0
7/8/2024 9:08	20402	ASHF_T2	6	6	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
7/8/2024 9:08	20403	ASHF_T2	3	10	7	1.27	1.15	-0.12	1.84	1.9	0	0	0	0	0	0
7/8/2024 9:09	20403	ASHF_T2	3	10	7	1.27	1.15	-0.12	1.84	1.9	0	0	0	0	0	0
7/8/2024 9:09	24902	WHHA_T1	0	1	1	0	1.6	1.6	0.85	0.89	0	0	0	0	0	0
7/8/2024 9:09	20402	ASHF_T2	6	6	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
7/8/2024 9:09	20401	ASHF_T2	2	4	2	0.6	0.6	0	0	0	0	0	0	0	0	0
7/8/2024 9:10	20402	ASHF_T2	6	6	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
7/8/2024 9:10	20403	ASHF_T2	3	10	7	1.27	1.15	-0.12	1.84	1.9	0	0	0	0	0	0
7/8/2024 9:10	20401	ASHF_T2	2	4	2	0.6	0.6	0	0	0	0	0	0	0	0	0
7/8/2024 9:13	20403	ASHF_T2	3	10	7	1.27	1.15	-0.12	1.84	1.9	0	0	0	0	0	0
7/8/2024 9:13	20401	ASHF_T2	2	4	2	0.6	0.6	0	0	0	0	0	0	0	0	0
7/8/2024 9:13	20402	ASHF_T2	6	6	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
7/8/2024 9:13	51108	CARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/8/2024 9:13	51101	CARL_T1	1	1	0	7.1	7.5	0.4	0	0	0	0	0	0	0	0
7/8/2024 9:13	51109	CARL_T1	0	0	0	0	0	0	-0.59	-0.52	1	1	0	1200	1200	0
7/8/2024 9:14	64203	KINZ_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
7/8/2024 9:14	64204	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
7/8/2024 9:14	64201	KINZ_T1	0	0	0	0	0	0	-0.01	0.02	4	4	0	2100	2100	0
7/8/2024 9:19	48302	ORWI_T2	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
7/8/2024 9:21	59101	WALK_T2	0	0	0	0	0	0	1.9	2.17	1	1	0	600	600	0
7/8/2024 9:21	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 9:21	48302	ORWI_T2	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
7/8/2024 9:21	43304	WATS_T2	0	0	0	0	0	0	0.01	-0.04	0	0	0	0	0	0
7/8/2024 9:25	46206	DANV_T2	9	8	-1	0.64	0.58	-0.06	3.24	1.92	2	2	0	2400	2400	0
7/8/2024 9:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/8/2024 9:26	29402	BELT_T1	1	25	24	6.8	0.6	-6.2	0	0	0	0	0	0	0	0
7/8/2024 9:27	22001	BOHE_T1	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
7/8/2024 9:27	22003	BOHE_T1	3	159	156	0.73	0.26	-0.47	0	0	0	0	0	0	0	0
7/8/2024 9:27	59101	WALK_T2	0	0	0	0	0	0	2.17	1.82	1	1	0	600	600	0
7/8/2024 9:27	22002	BOHE_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
7/8/2024 9:31	13503	MCMI_T2	47	32	-15	0.27	0.29	0.02	-0.72	-0.71	0	0	0	0	0	0
7/8/2024 9:33	15603	NSTR_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
7/8/2024 9:33	47401	PENS_T1	10	10	0	0.84	0.55	-0.29	0.08	0.14	0	0	0	0	0	0
7/8/2024 9:33	47403	PENS_T1	1	1	0	0.2	1.8	1.6	0	0	0	0	0	0	0	0
7/8/2024 9:33	64101	REFR_T1	0	1	1	0	0	0	0.38	0.37	0	0	0	0	0	0
7/8/2024 9:33	13503	MCMI_T2	47	32	-15	0.27	0.29	0.02	-0.72	-0.71	0	0	0	0	0	0
7/8/2024 9:34	64101	REFR_T1	0	1	1	0	0	0	0.75	0.73	0	0	0	0	0	0
7/8/2024 9:35	41901	REED_T1	1	0	-1	4.7	0	-4.7	0	0	0	0	0	0	0	0
7/8/2024 9:35	41902	REED_T1	0	0	0	0	0	0	0.45	0.5	1	1	0	900	900	0
7/8/2024 9:35	47401	PENS_T1	10	10	0	0.84	0.55	-0.29	0.16	0.28	0	0	0	0	0	0
7/8/2024 9:35	64101	REFR_T1	0	1	1	0	0	0	0.38	0.37	0	0	0	0	0	0
7/8/2024 9:35	47403	PENS_T1	1	1	0	0.2	1.8	1.6	0	0	0	0	0	0	0	0
7/8/2024 9:35	41903	REED_T1	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
7/8/2024 9:35	13503	MCMI_T2	47	32	-15	0.27	0.29	0.02	-1.45	-1.43	0	0	0	0	0	0
7/8/2024 9:36	47401	PENS_T1	10	10	0	0.84	0.55	-0.29	0.14	0.22	0	0	0	0	0	0
7/8/2024 9:36	47403	PENS_T1	1	1	0	0.2	1.8	1.6	0	0	0	0	0	0	0	0
7/8/2024 9:37	64101	REFR_T1	0	1	1	0	0	0	0.37	0.38	0	0	0	0	0	0
7/8/2024 9:38	41901	REED_T1	1	0	-1	4.7	0	-4.7	0	0	0	0	0	0	0	0
7/8/2024 9:38	47403	PENS_T1	1	1	0	0.2	1.8	1.6	0	0	0	0	0	0	0	0
7/8/2024 9:38	64101	REFR_T1	0	1	1	0	0	0	0.73	0.76	0	0	0	0	0	0
7/8/2024 9:38	47401	PENS_T1	10	10	0	0.84	0.55	-0.29	0.14	0.22	0	0	0	0	0	0
7/8/2024 9:38	41903	REED_T1	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
7/8/2024 9:38	41902	REED_T1	0	0	0	0	0	0	0.5	0.48	1	1	0	900	900	0
7/8/2024 9:39	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 9:41	29402	BELT_T1	25	4	-21	0.58	2.65	2.07	0	0	0	0	0	0	0	0
7/8/2024 9:41	20601	GRWO_T2	25	102	77	0.49	0.44	-0.05	0.98	1	0	0	0	0	0	0
7/8/2024 9:42	29402	BELT_T1	25	4	-21	0.58	2.65	2.07	0	0	0	0	0	0	0	0
7/8/2024 9:42	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/8/2024 9:43	56801	BENV_T1	2	3	1	0.25	0.27	0.02	-0.4	-0.39	1	1	0	600	600	0
7/8/2024 9:46	40101	HUNT_T2	24	13	-11	0.42	0.23	-0.19	-0.04	-0.03	0	0	0	0	0	0
7/8/2024 9:47	23401	HONE_T2	1	2	1	0.6	0	-0.6	-0.09	-0.1	0	0	0	0	0	0
7/8/2024 9:53	59101	WALK_T2	0	3	3	0	0	0	2.26	1.43	1	2	1	600	1200	600
7/8/2024 9:54	55101	WERT_T1	0	0	0	0	0	0	-3.68	-3.71	8	8	0	6600	6600	0
7/8/2024 9:55	60201	ATGL_T2	0	0	0	0	0	0	0.97	1.1	1	1	0	300	300	0
7/8/2024 9:55	55101	WERT_T1	0	0	0	0	0	0	-1.84	-1.86	4	4	0	3300	3300	0
7/8/2024 9:55	56802	BENV_T2	0	2	2	0	0.2	0.2	-0.86	-0.87	0	0	0	0	0	0
7/8/2024 9:56	20601	GRWO_T2	49	132	83	0.44	0.73	0.29	1	1	0	0	0	0	0	0
7/8/2024 9:56	55101	WERT_T1	0	0	0	0	0	0	-3.68	-3.71	8	8	0	6600	6600	0
7/8/2024 9:56	67605	WARW_T1	0	0	0	0	0	0	0	-1.67	0	0	0	0	0	0
7/8/2024 9:56	24902	WHHA_T1	3	20	17	0.67	0.66	-0.01	0.95	0.96	0	0	0	0	0	0
7/8/2024 9:57	29402	BELT_T1	4	3	-1	2.65	3.33	0.68	0	0	0	0	0	0	0	0
7/8/2024 9:57	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/8/2024 9:58	67605	WARW_T1	0	0	0	0	0	0	0	-0.84	0	0	0	0	0	0
7/8/2024 10:00	47001	HUGH_T2	8	4	-4	3.39	6.25	2.86	-3.53	-3.5	3	3	0	2700	2700	0
7/8/2024 10:00	47403	PENS_T1	1	1	0	1.8	0.3	-1.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/8/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	1.4	1.48	0	0	0	0	0	0
7/8/2024 10:00	56501	ROCK_T2	1	1	0	0.8	0.9	0.1	-1.33	-1.31	0	0	0	0	0	0
7/8/2024 10:00	47401	PENS_T1	10	20	10	0.61	0.6	-0.01	0.88	1.03	0	0	0	0	0	0
7/8/2024 10:00	60501	NMAN_T2	3	3	0	3.57	4.4	0.83	0	0	0	0	0	0	0	0
7/8/2024 10:00	40504	CRES_T1	1	7	6	0.1	0.25	0.15	0	0	0	0	0	0	0	0
7/8/2024 10:00	61001	DONV_T1	1	2	1	0.2	0.2	0	0.49	0.48	0	0	0	0	0	0
7/8/2024 10:00	14401	SSLA_T1	0	0	0	0	0	0	-1.03	-0.99	2	2	0	1800	1800	0
7/8/2024 10:00	52403	GRPA_T2	63	31	-32	0.79	0.55	-0.24	0.21	0.24	0	0	0	0	0	0
7/8/2024 10:00	13503	MCMI_T2	9	14	5	0.51	0.48	-0.03	-0.67	-0.66	0	0	0	0	0	0
7/8/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.47	0.52	0	0	0	0	0	0
7/8/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
7/8/2024 10:00	52402	GRPA_T2	2	4	2	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
7/8/2024 10:00	52404	GRPA_T2	0	0	0	0	0	0	0.79	0.64	0	0	0	0	0	0
7/8/2024 10:00	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/8/2024 10:00	56504	ROCK_T2	2	5	3	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/8/2024 10:00	40505	CRES_T1	3	4	1	2.2	1.9	-0.3	0.77	0.86	0	0	0	0	0	0
7/8/2024 10:00	14404	SSLA_T1	3	2	-1	1.1	1.9	0.8	-0.01	0.06	1	1	0	900	900	0
7/8/2024 10:00	64101	REFR_T1	1	4	3	0.5	0	-0.5	2.27	2.7	0	0	0	0	0	0
7/8/2024 10:07	47403	PENS_T1	1	1	0	1.8	0.3	-1.5	0	0	0	0	0	0	0	0
7/8/2024 10:07	47401	PENS_T1	10	20	10	0.61	0.6	-0.01	0.77	0.88	0	0	0	0	0	0
7/8/2024 10:08	64101	REFR_T1	1	4	3	0.5	0	-0.5	0.45	0.45	0	0	0	0	0	0
7/8/2024 10:08	55101	WERT_T1	0	0	0	0	0	0	-1.86	-1.82	4	4	0	3300	3300	0
7/8/2024 10:09	60201	ATGL_T2	0	0	0	0	0	0	1.1	1.04	1	1	0	300	300	0
7/8/2024 10:09	14404	SSLA_T1	3	2	-1	1.1	1.9	0.8	0.06	0.06	1	1	0	900	900	0
7/8/2024 10:09	67903	WNHO_T1	0	0	0	0	0	0	1.29	1.35	1	1	0	1200	1200	0
7/8/2024 10:10	20402	ASHF_T2	8	7	-1	1.19	1.4	0.21	0	0	0	0	0	0	0	0
7/8/2024 10:10	56802	BENV_T2	0	2	2	0	0.2	0.2	-1.75	-1.66	0	0	0	0	0	0
7/8/2024 10:10	20401	ASHF_T2	4	5	1	0.98	0.85	-0.13	0	0	0	0	0	0	0	0
7/8/2024 10:10	20403	ASHF_T2	1	9	8	0.2	0	-0.2	0.44	2.03	0	0	0	0	0	0
7/8/2024 10:10	55101	WERT_T1	0	0	0	0	0	0	-1.86	-1.82	4	4	0	3300	3300	0
7/8/2024 10:10	56801	BENV_T1	2	7	5	0.25	0.51	0.26	-1.02	-0.92	3	3	0	1800	1800	0
7/8/2024 10:11	46206	DANV_T2	10	46	36	0.66	0.68	0.02	0	0	0	0	0	0	0	0
7/8/2024 10:11	46203	DANV_T2	0	0	0	0	0	0	-1.36	-1.31	0	0	0	0	0	0
7/8/2024 10:11	20403	ASHF_T2	1	9	8	0.2	0	-0.2	0.44	2.03	0	0	0	0	0	0
7/8/2024 10:11	60201	ATGL_T2	0	0	0	0	0	0	1.1	1.04	1	1	0	300	300	0
7/8/2024 10:11	20402	ASHF_T2	8	7	-1	1.19	1.4	0.21	0	0	0	0	0	0	0	0
7/8/2024 10:11	24902	WHHA_T1	5	26	21	0.68	0.58	-0.1	0.96	0.95	0	0	0	0	0	0
7/8/2024 10:11	58002	WCAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 10:11	20401	ASHF_T2	4	5	1	0.98	0.85	-0.13	0	0	0	0	0	0	0	0
7/8/2024 10:11	58006	WCAR_T2	0	0	0	0	0	0	-0.55	-0.52	0	0	0	0	0	0
7/8/2024 10:12	11804	FRAN_T1	241	251	10	1.26	1.47	0.21	1.45	1.5	0	0	0	0	0	0
7/8/2024 10:12	56802	BENV_T2	0	2	2	0	0.2	0.2	-0.87	-0.83	0	0	0	0	0	0
7/8/2024 10:12	20402	ASHF_T2	8	7	-1	1.19	1.4	0.21	0	0	0	0	0	0	0	0
7/8/2024 10:12	20401	ASHF_T2	4	5	1	0.98	0.85	-0.13	0.49	0.47	0	0	0	0	0	0
7/8/2024 10:12	20601	GRWO_T2	101	153	52	0.73	1.06	0.33	1	1.02	0	0	0	0	0	0
7/8/2024 10:12	20403	ASHF_T2	1	9	8	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/8/2024 10:12	11805	FRAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 10:13	29402	BELT_T1	3	3	0	3.33	3.1	-0.23	0	0	0	0	0	0	0	0
7/8/2024 10:13	20601	GRWO_T2	101	153	52	0.73	1.06	0.33	1	1.02	0	0	0	0	0	0
7/8/2024 10:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/8/2024 10:13	56802	BENV_T2	0	2	2	0	0.2	0.2	-0.87	-0.83	0	0	0	0	0	0
7/8/2024 10:14	56802	BENV_T2	0	2	2	0	0.2	0.2	-1.75	-1.66	0	0	0	0	0	0
7/8/2024 10:16	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/8/2024 10:16	25501	MADI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 10:16	58401	MORO_T1	3	1	-2	0.7	0	-0.7	-0.97	-1.78	2	3	1	1200	2100	900
7/8/2024 10:16	25503	MADI_T1	0	1	1	0	0.2	0.2	-0.58	-0.55	0	0	0	0	0	0
7/8/2024 10:16	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 10:17	40101	HUNT_T2	5	16	11	0.26	0.25	-0.01	-0.32	-0.32	0	0	0	0	0	0
7/8/2024 10:17	13503	MCMI_T2	12	10	-2	0.48	0.54	0.06	-0.66	-0.66	0	0	0	0	0	0
7/8/2024 10:18	13503	MCMI_T2	12	10	-2	0.48	0.54	0.06	-0.66	-0.66	0	0	0	0	0	0
7/8/2024 10:19	13303	ORVI_T1	0	0	0	0	0	0	0.36	0.4	0	0	0	0	0	0
7/8/2024 10:19	44703	MUNC_T2	0	0	0	0	0	0	1.01	1.03	0	0	0	0	0	0
7/8/2024 10:20	12801	MICK_T1	0	0	0	0	0	0	-0.12	-0.11	1	1	0	600	600	0
7/8/2024 10:20	12807	MICK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 10:20	13503	MCMI_T2	12	10	-2	0.48	0.54	0.06	-0.66	-0.66	0	0	0	0	0	0
7/8/2024 10:20	56501	ROCK_T2	1	1	0	0.9	0.5	-0.4	-2.61	-2.5	0	0	0	0	0	0
7/8/2024 10:20	56504	ROCK_T2	2	5	3	0.6	1.17	0.57	0	0	0	0	0	0	0	0
7/8/2024 10:21	56504	ROCK_T2	2	5	3	0.6	1.17	0.57	0	0	0	0	0	0	0	0
7/8/2024 10:21	56501	ROCK_T2	1	1	0	0.9	0.5	-0.4	-1.31	-1.25	0	0	0	0	0	0
7/8/2024 10:21	58401	MORO_T1	3	1	-2	0.7	0	-0.7	-0.97	-1.78	2	3	1	1200	2100	900
7/8/2024 10:21	41903	REED_T1	1	4	3	0.2	0.23	0.03	0	0	0	0	0	0	0	0
7/8/2024 10:21	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 10:21	41902	REED_T1	1	4	3	0.1	0	-0.1	0.5	0.57	1	1	0	900	900	0
7/8/2024 10:22	58401	MORO_T1	3	1	-2	0.7	0	-0.7	-1.78	-1.81	3	3	0	2100	2100	0
7/8/2024 10:22	40902	JESH_T1	1	1	0	0.5	0	-0.5	-0.16	-0.19	2	2	0	1200	1200	0
7/8/2024 10:22	40901	JESH_T1	2	1	-1	1.25	1.6	0.35	0	0	0	0	0	0	0	0
7/8/2024 10:22	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 10:23	20401	ASHF_T2	4	5	1	0.85	1.3	0.45	0	0	0	0	0	0	0	0
7/8/2024 10:23	56504	ROCK_T2	2	5	3	0.6	1.17	0.57	0	0	0	0	0	0	0	0
7/8/2024 10:23	56501	ROCK_T2	1	1	0	0.9	0.5	-0.4	-1.25	-1.19	0	0	0	0	0	0
7/8/2024 10:23	20403	ASHF_T2	0	10	10	0	0.2	0.2	2.03	1	0	0	0	0	0	0
7/8/2024 10:23	41902	REED_T1	1	4	3	0.1	0	-0.1	0.57	0.55	1	1	0	900	900	0
7/8/2024 10:23	20402	ASHF_T2	6	8	2	1.4	1.7	0.3	0	0	0	0	0	0	0	0
7/8/2024 10:23	41903	REED_T1	1	4	3	0.2	0.23	0.03	0	0	0	0	0	0	0	0
7/8/2024 10:24	56504	ROCK_T2	2	5	3	0.6	1.17	0.57	0	0	0	0	0	0	0	0
7/8/2024 10:24	59101	WALK_T2	0	3	3	0	0.3	0.3	5.55	5.61	6	6	0	3600	3600	0
7/8/2024 10:24	56501	ROCK_T2	1	1	0	0.9	0.5	-0.4	-2.5	-2.38	0	0	0	0	0	0
7/8/2024 10:24	67602	WARW_T2	0	0	0	0	0	0	0.99	1.17	0	0	0	0	0	0
7/8/2024 10:25	61102	BERK_T5	0	0	0	0	0	0	0.69	0.72	1	1	0	300	300	0
7/8/2024 10:25	43304	WATS_T2	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
7/8/2024 10:26	61102	BERK_T5	0	0	0	0	0	0	1.37	1.44	2	2	0	600	600	0
7/8/2024 10:28	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 10:28	20403	ASHF_T2	0	10	10	0	0.2	0.2	2.03	1	0	0	0	0	0	0
7/8/2024 10:28	20402	ASHF_T2	6	8	2	1.4	1.7	0.3	0	0	0	0	0	0	0	0
7/8/2024 10:28	46206	DANV_T2	24	47	23	0.69	0.41	-0.28	3.32	3.42	4	4	0	4200	4200	0
7/8/2024 10:28	20401	ASHF_T2	4	5	1	0.85	1.3	0.45	0	0	0	0	0	0	0	0
7/8/2024 10:29	64302	LINC_T2	3	4	1	0.13	0.6	0.47	1.76	1.86	0	0	0	0	0	0
7/8/2024 10:30	44801	EDAN_T2	1	1	0	0.8	0.8	0	1.88	1.98	0	0	0	0	0	0
7/8/2024 10:31	20601	GRWO_T2	147	118	-29	1.03	0.65	-0.38	1.02	1.03	0	0	0	0	0	0
7/8/2024 10:32	22905	HARW_T1	4	3	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/8/2024 10:32	22903	HARW_T1	22	22	0	1.3	0.51	-0.79	0	0	0	0	0	0	0	0
7/8/2024 10:32	22901	HARW_T1	9	29	20	0.83	0.48	-0.35	0.04	0.06	1	1	0	1200	1200	0
7/8/2024 10:33	64802	MONE_T2	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
7/8/2024 10:34	64802	MONE_T2	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
7/8/2024 10:35	42902	MIDD_T2	4	16	12	0.48	0.8	0.32	0	0	0	0	0	0	0	0
7/8/2024 10:35	42901	MIDD_T2	3	6	3	0.6	1	0.4	0	0	0	0	0	0	0	0
7/8/2024 10:35	42903	MIDD_T2	0	2	2	0	0	0	1.41	1.34	1	1	0	1200	1200	0
7/8/2024 10:37	58003	WCAR_T1	1	1	0	0.6	0.5	-0.1	0.53	0.56	1	1	0	600	600	0
7/8/2024 10:37	61102	BERK_T5	0	0	0	0	0	0	0.72	0.76	1	1	0	300	300	0
7/8/2024 10:37	43301	WATS_T2	0	0	0	0	0	0	-0.14	-0.14	1	1	0	900	900	0
7/8/2024 10:37	67201	TEHI_T1	22	31	9	0.69	0.86	0.17	1.2	1.08	1	1	0	600	600	0
7/8/2024 10:37	67203	TEHI_T1	6	4	-2	0.8	1.23	0.43	0	0	0	0	0	0	0	0
7/8/2024 10:38	61102	BERK_T5	0	0	0	0	0	0	2.15	2.28	3	3	0	900	900	0
7/8/2024 10:39	43301	WATS_T2	0	0	0	0	0	0	-0.27	-0.29	2	2	0	1800	1800	0
7/8/2024 10:39	16302	ALPA_T2	0	0	0	0	0	0	0.19	0.32	0	0	0	0	0	0
7/8/2024 10:39	58003	WCAR_T1	1	1	0	0.6	0.5	-0.1	0.53	0.56	1	1	0	600	600	0
7/8/2024 10:39	24902	WHHA_T1	15	3	-12	0.46	1.2	0.74	0.37	0.37	0	0	0	0	0	0
7/8/2024 10:39	61102	BERK_T5	0	0	0	0	0	0	0.72	0.76	1	1	0	300	300	0
7/8/2024 10:39	44301	BEAV_T2	3	23	20	1.03	0.97	-0.06	0.88	0.77	2	2	0	1500	1500	0
7/8/2024 10:40	43301	WATS_T2	0	0	0	0	0	0	-0.14	-0.14	1	1	0	900	900	0
7/8/2024 10:40	16302	ALPA_T2	0	0	0	0	0	0	0.19	0.32	0	0	0	0	0	0
7/8/2024 10:41	61102	BERK_T5	0	0	0	0	0	0	0.72	0.76	1	1	0	300	300	0
7/8/2024 10:42	43301	WATS_T2	0	0	0	0	0	0	-0.14	-0.14	1	1	0	900	900	0
7/8/2024 10:42	16302	ALPA_T2	0	0	0	0	0	0	0.39	0.65	0	0	0	0	0	0
7/8/2024 10:44	44801	EDAN_T2	1	1	0	0.8	0.8	0	0.99	0.97	0	0	0	0	0	0
7/8/2024 10:44	23401	HONE_T2	1	1	0	1.3	0	-1.3	-0.1	0	0	0	0	0	0	0
7/8/2024 10:45	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 10:45	64204	KINZ_T1	1	4	3	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/8/2024 10:45	64203	KINZ_T1	2	2	0	0.95	2.05	1.1	0.63	0.71	3	3	0	2100	2100	0
7/8/2024 10:45	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 10:46	63804	HEMP_T1	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
7/8/2024 10:46	51802	EBEN_T2	4	4	0	0.7	0.53	-0.17	0.92	1.19	1	1	0	900	900	0
7/8/2024 10:46	63501	HEID_TBK1-2	1	1	0	0.1	0.3	0.2	1.04	1.05	1	1	0	900	900	0
7/8/2024 10:46	63802	HEMP_T1	0	0	0	0	0	0	0.8	0.84	0	0	0	0	0	0
7/8/2024 10:47	40101	HUNT_T2	6	55	49	0.27	0.53	0.26	-0.33	-0.31	0	0	0	0	0	0
7/8/2024 10:49	64203	KINZ_T1	2	2	0	0.95	2.05	1.1	0	0	0	0	0	0	0	0
7/8/2024 10:49	12304	LANA_T2	23	67	44	0.4	0.49	0.09	0	0	0	0	0	0	0	0
7/8/2024 10:49	64201	KINZ_T1	0	1	1	0	0	0	-0.79	-0.75	5	5	0	3300	3300	0
7/8/2024 10:49	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 10:49	12305	LANA_T2	0	9	9	0	0.8	0.8	0	0	0	0	0	0	0	0
7/8/2024 10:49	64204	KINZ_T1	1	4	3	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/8/2024 10:49	12301	LANA_T2	2	2	0	1.25	0	-1.25	-0.78	-0.94	0	0	0	0	0	0
7/8/2024 10:50	55405	SHER_T1	0	4	4	0	0.15	0.15	0.31	0.37	0	0	0	0	0	0
7/8/2024 10:51	64101	REFR_T1	6	10	4	0.75	1.73	0.98	0.58	0	0	0	0	0	0	0
7/8/2024 10:52	64101	REFR_T1	6	10	4	0.75	1.73	0.98	0.58	0	0	0	0	0	0	0
7/8/2024 10:53	57404	SPAN_T2	0	2	2	0	0	0	0.09	-0.8	1	1	0	1200	1200	0
7/8/2024 10:53	55101	WERT_T1	8	12	4	0.89	0.48	-0.41	-1.55	-1.63	4	4	0	3300	3300	0
7/8/2024 10:53	67201	TEHI_T1	26	33	7	0.98	0.8	-0.18	0	0	0	0	0	0	0	0
7/8/2024 10:53	67203	TEHI_T1	4	5	1	1.38	1.23	-0.15	2.01	2.04	4	4	0	3000	3000	0
7/8/2024 10:54	67605	WARW_T1	1	1	0	0.3	0.2	-0.1	-0.73	-0.69	0	0	0	0	0	0
7/8/2024 10:54	24902	WHHA_T1	3	1	-2	2.1	1.4	-0.7	0	0	0	0	0	0	0	0
7/8/2024 10:54	29402	BELT_T1	1	7	6	8.8	2.1	-6.7	0	0	0	0	0	0	0	0
7/8/2024 10:54	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/8/2024 10:54	24901	WHHA_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
7/8/2024 10:55	55101	WERT_T1	8	12	4	0.89	0.48	-0.41	-1.55	-1.63	4	4	0	3300	3300	0
7/8/2024 10:55	20401	ASHF_T2	4	5	1	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
7/8/2024 10:55	67605	WARW_T1	1	1	0	0.3	0.2	-0.1	-1.47	-1.38	0	0	0	0	0	0
7/8/2024 10:55	20402	ASHF_T2	8	10	2	1.74	1.17	-0.57	0	0	0	0	0	0	0	0
7/8/2024 10:55	29402	BELT_T1	1	7	6	8.8	2.1	-6.7	0	0	0	0	0	0	0	0
7/8/2024 10:55	20403	ASHF_T2	3	2	-1	0.2	0.2	0	0.97	0.8	0	0	0	0	0	0
7/8/2024 10:56	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 10:56	43301	WATS_T2	0	0	0	0	0	0	-0.14	-0.13	1	1	0	900	900	0
7/8/2024 10:57	24902	WHHA_T1	3	1	-2	2.1	1.4	-0.7	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/8/2024 10:57	24901	WHHA_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
7/8/2024 10:57	67605	WARW_T1	1	1	0	0.3	0.2	-0.1	-0.73	-0.69	0	0	0	0	0	0
7/8/2024 10:58	67605	WARW_T1	1	1	0	0.3	0.2	-0.1	-1.47	-1.38	0	0	0	0	0	0
7/8/2024 10:59	46801	HEPB_T2	0	2	2	0	1.3	1.3	0.79	0.27	0	0	0	0	0	0
7/8/2024 10:59	67605	WARW_T1	1	1	0	0.3	0.2	-0.1	-0.73	-0.69	0	0	0	0	0	0
7/8/2024 10:59	46803	HEPB_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/8/2024 11:01	46801	HEPB_T2	2	2	0	0.5	1.3	0.8	0	0	0	0	0	0	0	0
7/8/2024 11:01	46803	HEPB_T2	1	1	0	0.5	0.4	-0.1	0.5	0.46	0	0	0	0	0	0
7/8/2024 11:02	22903	HARW_T1	22	22	0	1.4	2.07	0.67	0	0	0	0	0	0	0	0
7/8/2024 11:02	12701	MACU_T1	0	4	4	0	0.25	0.25	-0.64	-0.61	1	1	0	1200	1200	0
7/8/2024 11:02	22905	HARW_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 11:02	22901	HARW_T1	28	13	-15	0.58	0.55	-0.03	0.05	0.12	1	1	0	1200	1200	0
7/8/2024 11:02	12704	MACU_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/8/2024 11:03	52403	GRPA_T2	71	141	70	0.76	1.09	0.33	0.24	0.3	0	0	0	0	0	0
7/8/2024 11:03	47402	PENS_T1	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/8/2024 11:03	47403	PENS_T1	1	1	0	1.3	2	0.7	0	0	0	0	0	0	0	0
7/8/2024 11:03	52401	GRPA_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 11:03	47401	PENS_T1	12	17	5	0.83	0.8	-0.03	0.26	0.35	0	0	0	0	0	0
7/8/2024 11:03	52402	GRPA_T2	3	22	19	0.3	0.72	0.42	0	0	0	0	0	0	0	0
7/8/2024 11:03	12704	MACU_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/8/2024 11:03	12701	MACU_T1	0	4	4	0	0.25	0.25	-0.64	-0.61	1	1	0	1200	1200	0
7/8/2024 11:03	52404	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 11:04	52402	GRPA_T2	3	22	19	0.3	0.72	0.42	0	0	0	0	0	0	0	0
7/8/2024 11:04	52401	GRPA_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 11:04	52404	GRPA_T2	0	3	3	0	0	0	0.11	0.45	0	0	0	0	0	0
7/8/2024 11:04	52403	GRPA_T2	71	141	70	0.76	1.09	0.33	0	0	0	0	0	0	0	0
7/8/2024 11:05	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/8/2024 11:06	52401	GRPA_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 11:06	52402	GRPA_T2	3	22	19	0.3	0.72	0.42	0	0	0	0	0	0	0	0
7/8/2024 11:06	43304	WATS_T2	0	4	4	0	0.2	0.2	-0.38	-0.36	0	1	1	0	600	600
7/8/2024 11:06	52404	GRPA_T2	0	3	3	0	0	0	0.11	0.45	0	0	0	0	0	0
7/8/2024 11:06	52403	GRPA_T2	71	141	70	0.76	1.09	0.33	0	0	0	0	0	0	0	0
7/8/2024 11:07	64101	REFR_T1	10	10	0	1.93	1.02	-0.91	0	0.03	0	0	0	0	0	0
7/8/2024 11:07	45602	WOOL_T1	0	0	0	0	0	0	1.09	1.05	0	0	0	0	0	0
7/8/2024 11:07	43304	WATS_T2	0	4	4	0	0.2	0.2	-0.38	-0.36	1	1	0	600	600	0
7/8/2024 11:08	47401	PENS_T1	12	17	5	0.83	0.8	-0.03	0.35	0.44	0	0	0	0	0	0
7/8/2024 11:08	43304	WATS_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
7/8/2024 11:08	47403	PENS_T1	1	1	0	1.3	2	0.7	0	0	0	0	0	0	0	0
7/8/2024 11:08	47402	PENS_T1	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/8/2024 11:08	43301	WATS_T2	0	0	0	0	0	0	-0.13	-0.1	1	1	0	900	900	0
7/8/2024 11:09	61101	BERK_T5	0	0	0	0	0	0	-0.93	-0.9	0	0	0	0	0	0
7/8/2024 11:09	67601	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 11:09	45602	WOOL_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
7/8/2024 11:11	60201	ATGL_T2	0	0	0	0	0	0	0.47	0.73	2	2	0	900	900	0
7/8/2024 11:11	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.69	-0.65	0	0	0	0	0	0
7/8/2024 11:11	61102	BERK_T5	0	0	0	0	0	0	0.83	0.89	1	1	0	300	300	0
7/8/2024 11:12	61101	BERK_T5	0	0	0	0	0	0	-0.93	-0.9	0	0	0	0	0	0
7/8/2024 11:14	24105	EHAZ_T1	4	4	0	7.4	7.3	-0.1	0	0	0	0	0	0	0	0
7/8/2024 11:14	24101	EHAZ_T1	34	42	8	1.58	1.01	-0.57	0	0	0	0	0	0	0	0
7/8/2024 11:14	64201	KINZ_T1	0	2	2	0	0.3	0.3	-0.69	-0.61	5	5	0	3300	3300	0
7/8/2024 11:14	64203	KINZ_T1	2	4	2	2.05	2.5	0.45	0	0	0	0	0	0	0	0
7/8/2024 11:14	64204	KINZ_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 11:14	64202	KINZ_T1	0	8	8	0	0.5	0.5	0	0	0	0	0	0	0	0
7/8/2024 11:14	24102	EHAZ_T1	3	4	1	0.63	1.05	0.42	0.31	0.34	0	0	0	0	0	0
7/8/2024 11:15	47101	MARL_T1	26	41	15	1.14	0.99	-0.15	-0.53	-0.53	1	1	0	600	600	0
7/8/2024 11:16	52002	LING_T2	0	1	1	0	0	0	0.02	0.14	2	2	0	1800	1800	0
7/8/2024 11:17	52002	LING_T2	0	1	1	0	0	0	0.01	0.07	1	1	0	900	900	0
7/8/2024 11:17	47101	MARL_T1	26	41	15	1.14	0.99	-0.15	-1.07	-1.06	2	2	0	1200	1200	0
7/8/2024 11:18	65903	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 11:18	65901	SAKR_T2	1	3	2	5	2.13	-2.87	0	0	0	0	0	0	0	0
7/8/2024 11:18	65902	SAKR_T2	0	0	0	0	0	0	-0.67	-0.6	2	2	0	1200	1200	0
7/8/2024 11:19	52002	LING_T2	0	1	1	0	0	0	0.02	0.14	2	2	0	1800	1800	0
7/8/2024 11:20	52002	LING_T2	0	1	1	0	0	0	0.02	0.14	2	2	0	1800	1800	0
7/8/2024 11:20	47101	MARL_T1	26	41	15	1.14	0.99	-0.15	-1.6	-1.59	3	3	0	1800	1800	0
7/8/2024 11:21	67204	TEHI_T2	8	8	0	0.58	0.3	-0.28	0.02	0	0	0	0	0	0	0
7/8/2024 11:22	67904	WNHO_T1	0	0	0	0	0	0	-1.66	-1.66	2	2	0	2100	2100	0
7/8/2024 11:22	67204	TEHI_T2	8	8	0	0.58	0.3	-0.28	0.02	0	0	0	0	0	0	0
7/8/2024 11:23	64101	REFR_T1	10	10	0	1.73	1.02	-0.71	0.03	0.1	0	0	0	0	0	0
7/8/2024 11:23	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 11:23	55101	WERT_T1	12	19	7	0.48	0.68	0.2	-1.64	-1.49	4	4	0	3300	3300	0
7/8/2024 11:25	59101	WALK_T2	1	3	2	0.5	0.9	0.4	2.57	2.91	6	6	0	3600	3600	0
7/8/2024 11:25	62102	ELAN_T1	1	1	0	0.3	0.4	0.1	0.39	0.37	0	0	0	0	0	0
7/8/2024 11:25	64101	REFR_T1	10	10	0	1.73	1.02	-0.71	0.03	0.1	0	0	0	0	0	0
7/8/2024 11:26	59101	WALK_T2	1	3	2	0.5	0.9	0.4	1.29	1.46	3	3	0	1800	1800	0
7/8/2024 11:27	67605	WARW_T1	1	1	0	0.2	0.2	0	-0.65	-0.58	0	0	0	0	0	0
7/8/2024 11:28	44801	EDAN_T2	1	5	4	1.7	1.05	-0.65	1.04	1.01	0	0	0	0	0	0
7/8/2024 11:31	40101	HUNT_T2	50	152	102	0.59	0.53	-0.06	-0.33	-0.29	0	0	0	0	0	0
7/8/2024 11:31	25402	LAHA_T2	0	0	0	0	0	0	-0.09	-0.02	0	0	0	0	0	0
7/8/2024 11:32	47101	MARL_T1	30	67	37	1.04	0.97	-0.07	-0.53	-0.46	1	1	0	600	600	0
7/8/2024 11:32	52402	GRPA_T2	21	14	-7	0.86	0.3	-0.56	-0.47	-0.44	0	0	0	0	0	0
7/8/2024 11:32	52403	GRPA_T2	136	147	11	0.95	0.63	-0.32	0	0	0	0	0	0	0	0
7/8/2024 11:32	64302	LINC_T2	30	31	1	0.6	0.49	-0.11	1.86	1.86	0	0	0	0	0	0
7/8/2024 11:33	52402	GRPA_T2	21	14	-7	0.86	0.3	-0.56	-0.47	-0.44	0	0	0	0	0	0
7/8/2024 11:33	12703	MACU_T2	0	1	1	0	0	0	-0.12	-0.15	0	0	0	0	0	0
7/8/2024 11:33	52403	GRPA_T2	136	147	11	0.95	0.63	-0.32	0.39	0.37	0	0	0	0	0	0
7/8/2024 11:34	52403	GRPA_T2	136	147	11	0.95	0.63	-0.32	0	0	0	0	0	0	0	0
7/8/2024 11:34	52402	GRPA_T2	21	14	-7	0.86	0.3	-0.56	-0.95	-0.87	0	0	0	0	0	0
7/8/2024 11:34	47101	MARL_T1	30	67	37	1.04	0.97	-0.07	-0.53	-0.46	1	1	0	600	600	0
7/8/2024 11:35	44601	SALE_T2	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
7/8/2024 11:36	23401	HONE_T2	0	1	1	0	0	0	-0.09	-0.02	0	0	0	0	0	0
7/8/2024 11:36	59202	THOM_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
7/8/2024 11:36	47101	MARL_T1	30	67	37	1.04	0.97	-0.07	-0.53	-0.46	1	1	0	600	600	0
7/8/2024 11:37	56501	ROCK_T2	1	4	3	0.7	0.2	-0.5	-2.24	-2.19	0	0	0	0	0	0
7/8/2024 11:37	56504	ROCK_T2	5	3	-2	1.6	0	-1.6	0	0	0	0	0	0	0	0
7/8/2024 11:38	56501	ROCK_T2	1	4	3	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/8/2024 11:38	56504	ROCK_T2	5	3	-2	1.6	0	-1.6	0.41	0.34	0	0	0	0	0	0
7/8/2024 11:38	43304	WATS_T2	4	1	-3	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/8/2024 11:38	43301	WATS_T2	0	0	0	0	0	0	-0.02	-0.01	1	1	0	900	900	0
7/8/2024 11:38	59202	THOM_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
7/8/2024 11:39	56501	ROCK_T2	1	4	3	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/8/2024 11:39	64101	REFR_T1	10	10	0	1.02	1.93	0.91	0.1	0.08	0	0	0	0	0	0
7/8/2024 11:39	44801	BEAV_T2	13	27	14	1.05	0.74	-0.31	1.27	1.22	2	2	0	1500	1500	0
7/8/2024 11:39	56504	ROCK_T2	5	3	-2	1.6	0	-1.6	0.83	0.67	0	0	0	0	0	0
7/8/2024 11:39	44601	SALE_T2	0	0	0	0	0	0	0.7	0.75	0	0	0	0	0	0
7/8/2024 11:40	56504	ROCK_T2	5	3	-2	1.6	0	-1.6	0.41	0.34	0	0	0	0	0	0
7/8/2024 11:40	61703	ELIZ_T1	0	0	0	0	0	0	-1.87	-1.88	2	2	0	2100	2100	0
7/8/2024 11:40	61701	ELIZ_T1	2	2	0	1.95	1.7	-0.25	0	0	0	0	0	0	0	0
7/8/2024 11:40	56501	ROCK_T2	1	4	3	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/8/2024 11:40	64101	REFR_T1	10	10	0	1.02	1.93	0.91	0.1	0.08	0	0	0	0	0	0
7/8/2024 11:41	56504	ROCK_T2	5	3	-2	1.6	0	-1.6	0.83	0.67	0	0	0	0	0	0
7/8/2024 11:41	67804	WLAN_T1	10	10	0	1.11	1.31	0.2	0	0	0	0	0	0	0	0
7/8/2024 11:41	56501	ROCK_T2	1	4	3	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/8/2024 11:41	67801	WLAN_T1	29	43	14	0.33	0.43	0.1	-0.63	-0.62	0	0	0	0	0	0
7/8/2024 11:42	55103	WERT_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/8/2024 11:42	55101	WERT_T1	14	19	5	0.83	0.66	-0.17	-1.49	-1.57	4	4	0	3300	3300	0
7/8/2024 11:43	61701	ELIZ_T1	2	2	0	1.95	1.7	-0.25	0	0	0	0	0	0	0	0
7/8/2024 11:43	61703	ELIZ_T1	0	0	0	0	0	0	-3.74	-3.76	4	4	0	4200	4200	0
7/8/2024 11:44	55101	WERT_T1	14	19	5	0.83	0.66	-0.17	-1.49	-1.57	4	4	0	3300	3300	0
7/8/2024 11:44	61701	ELIZ_T1	2	2	0	1.95	1.7	-0.25	0	0	0	0	0	0	0	0
7/8/2024 11:44	61703	ELIZ_T1	0	0	0	0	0	0	-3.74	-3.76	4	4	0	4200	4200	0
7/8/2024 11:44	55103	WERT_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/8/2024 11:44	56504	ROCK_T2	5	3	-2	1.6	0	-1.6	0	0	0	0	0	0	0	0
7/8/2024 11:44	44801	EDAN_T2	4	5	1	1.68	1.7	0.02	1.01	1.02	0	0	0	0	0	0
7/8/2024 11:44	56501	ROCK_T2	1	4	3	0.7	0.2	-0.5	-2.24	-2.19	0	0	0	0	0	0
7/8/2024 11:47	40101	HUNT_T2	143	140	-3	0.58	0.41	-0.17	-0.29	-0.33	0	0	0	0	0	0
7/8/2024 11:47	52002	LING_T2	0	3	3	0	0.2	0.2	0.11	0.18	1	1	0	900	900	0
7/8/2024 11:49	52002	LING_T2	0	3	3	0	0.2	0.2	0.11	0.18	1	1	0	900	900	0
7/8/2024 11:49	64802	MONE_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/8/2024 11:49	64801	MONE_T2	2	0	-2	0.1	0	-0.1	1.06	0.16	0	0	0	0	0	0
7/8/2024 11:51	66505	SMAN_T2	7	4	-3	0.4	0.4	0	0.52	0.43	4	4	0	2300	2300	0
7/8/2024 11:51	66504	SMAN_T2	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
7/8/2024 11:51	64101	REFR_T1	10	10	0	1.96	1.84	-0.12	0.16	0.21	0	0	0	0	0	0
7/8/2024 11:51	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/8/2024 11:52	41902	REED_T1	29	83	54	0.44	0.31	-0.13	0.63	0.7	1	1	0	900	900	0
7/8/2024 11:52	67204	TEHI_T2	1	0	-1	0.3	0	-0.3	0	0.03	0	0	0	0	0	0
7/8/2024 11:52	41903	REED_T1	4	4	0	1.55	1.33	-0.22	0	0	0	0	0	0	0	0
7/8/2024 11:52	41901	REED_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 11:53	67204	TEHI_T2	1	0	-1	0.3	0	-0.3	0	0.03	0	0	0	0	0	0
7/8/2024 11:53	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/8/2024 11:54	60803	BUCK_T1	0	4	4	0	0.15	0.15	-0.15	-0.12	1	1	0	600	600	0
7/8/2024 11:55	64101	REFR_T1	10	10	0	1.96	1.84	-0.12	0.08	0.1	0	0	0	0	0	0
7/8/2024 11:55	60803	BUCK_T1	0	4	4	0	0.15	0.15	-0.15	-0.12	1	1	0	600	600	0
7/8/2024 11:57	60803	BUCK_T1	0	4	4	0	0.15	0.15	-0.15	-0.12	1	1	0	600	600	0
7/8/2024 11:57	45601	WOOL_T1	0	0	0	0	0	0	0.03	0.02	1	1	0	1200	1200	0
7/8/2024 11:59	60803	BUCK_T1	0	4	4	0	0.15	0.15	-0.15	-0.12	1	1	0	600	600	0
7/8/2024 12:01	40101	HUNT_T2	140	32	-108	0.56	0.62	0.06	-0.33	-0.7	0	0	0	0	0	0
7/8/2024 12:01	25503	MADI_T1	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
7/8/2024 12:01	25501	MADI_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/8/2024 12:01	64101	REFR_T1	10	10	0	2.2	1.82	-0.38	0.08	0.1	0	0	0	0	0	0
7/8/2024 12:02	57306	MOAL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/8/2024 12:02	23202	HIRU_T2	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
7/8/2024 12:02	57302	MOAL_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
7/8/2024 12:02	57304	MOAL_T2	3	5	2	0.97	1.23	0.26	0.05	0.1	0	0	0	0	0	0
7/8/2024 12:02	46803	HEPB_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
7/8/2024 12:02	57303	MOAL_T2	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
7/8/2024 12:02	46801	HEPB_T2	2	2	0	0.75	0.9	0.15	0.39	0.36	0	0	0	0	0	0
7/8/2024 12:02	23201	HIRU_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/8/2024 12:02	57301	MOAL_T2	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
7/8/2024 12:03	65501	MOJO_T1	0	0	0	0	0	0	-0.47	-0.41	1	1	0	900	900	0
7/8/2024 12:04	40601	PIGR_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/8/2024 12:04	40602	PIGR_T1	3	4	1	0.9	1	0.1	-0.87	-0.92	1	1	0	600	600	0
7/8/2024 12:04	40603	PIGR_T1	40	44	4	0.63	0.35	-0.28	0	0	0	0	0	0	0	0
7/8/2024 12:05	46302	ROHR_T1	2	5	3	2	1.15	-0.85	0.43	0.39	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/8/2024 12:06	47403	PENS_T1	2	1	-1	0.65	2.2	1.55	0	0	0	0	0	0	0	0
7/8/2024 12:06	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 12:06	47401	PENS_T1	14	18	4	0.8	0.64	-0.16	0.61	0.57	0	0	0	0	0	0
7/8/2024 12:07	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 12:07	57403	SPAN_T1	3	3	0	0.47	0	-0.47	0	0	0	0	0	0	0	0
7/8/2024 12:07	47401	PENS_T1	14	18	4	0.8	0.64	-0.16	0.61	0.57	0	0	0	0	0	0
7/8/2024 12:07	56501	ROCK_T2	2	9	7	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
7/8/2024 12:07	57401	SPAN_T1	2	18	16	4	0.43	-3.57	-0.34	-0.32	1	1	0	600	600	0
7/8/2024 12:07	56504	ROCK_T2	3	5	2	0.87	0.8	-0.07	0.39	0.39	0	0	0	0	0	0
7/8/2024 12:07	47403	PENS_T1	2	1	-1	0.65	2.2	1.55	0	0	0	0	0	0	0	0
7/8/2024 12:08	40301	TAMA_T3	10	12	2	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/8/2024 12:08	40601	PIGR_T1	0	3	3	0	0.1	0.1	0.74	0.64	0	0	0	0	0	0
7/8/2024 12:08	40602	PIGR_T1	3	4	1	0.9	1	0.1	0	0	0	0	0	0	0	0
7/8/2024 12:08	40302	TAMA_T3	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
7/8/2024 12:08	40603	PIGR_T1	40	44	4	0.63	0.35	-0.28	0	0	0	0	0	0	0	0
7/8/2024 12:09	47401	PENS_T1	14	18	4	0.8	0.64	-0.16	0.61	0.57	0	0	0	0	0	0
7/8/2024 12:09	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 12:09	47403	PENS_T1	2	1	-1	0.65	2.2	1.55	0	0	0	0	0	0	0	0
7/8/2024 12:10	66504	SMAN_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/8/2024 12:10	64101	REFR_T1	10	10	0	2.2	1.82	-0.38	0.1	0.14	0	0	0	0	0	0
7/8/2024 12:10	43402	BENT_T1	1	2	1	0.3	0.45	0.15	-1.01	-0.98	2	2	0	1500	1500	0
7/8/2024 12:10	66505	SMAN_T2	4	18	14	0.38	0.4	0.02	0.43	0.63	4	4	0	2300	2300	0
7/8/2024 12:11	46204	DANV_T2	12	34	22	0.33	0.33	0	0	0	0	0	0	0	0	0
7/8/2024 12:11	46206	DANV_T2	53	61	8	0.86	0.81	-0.05	0	0	0	0	0	0	0	0
7/8/2024 12:11	46203	DANV_T2	0	73	73	0	0.1	0.1	-2.16	-2.24	0	0	0	0	0	0
7/8/2024 12:12	46204	DANV_T2	12	34	22	0.33	0.33	0	0	0	0	0	0	0	0	0
7/8/2024 12:12	46203	DANV_T2	0	73	73	0	0.1	0.1	-1.08	-1.12	0	0	0	0	0	0
7/8/2024 12:12	46206	DANV_T2	53	61	8	0.86	0.81	-0.05	0	0	0	0	0	0	0	0
7/8/2024 12:13	43402	BENT_T1	1	2	1	0.3	0.45	0.15	-2.02	-1.96	4	4	0	3000	3000	0
7/8/2024 12:15	28403	HART_T2	0	1	1	0	0	0	-0.41	-0.37	1	1	0	900	900	0
7/8/2024 12:17	65205	PRIN_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/8/2024 12:18	40101	HUNT_T2	21	32	11	0.41	0.35	-0.06	-0.7	-0.72	0	0	0	0	0	0
7/8/2024 12:19	65001	NEFF_T2	0	0	0	0	0	0	0.82	0.77	1	1	0	1200	1200	0
7/8/2024 12:20	28805	LAKE_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
7/8/2024 12:21	52501	PROG_T1	0	0	0	0	0	0	-0.35	-0.25	1	1	0	300	300	0
7/8/2024 12:21	66103	REAM_T2	0	0	0	0	0	0	0.27	0.45	1	1	0	1200	1200	0
7/8/2024 12:22	64101	REFR_T1	10	11	1	1.84	1.74	-0.1	0.14	0.16	0	0	0	0	0	0
7/8/2024 12:23	67602	WARW_T2	0	0	0	0	0	0	0.41	0.45	2	2	0	1500	1500	0
7/8/2024 12:24	67602	WARW_T2	0	0	0	0	0	0	0.41	0.45	2	2	0	1500	1500	0
7/8/2024 12:25	67602	WARW_T2	0	0	0	0	0	0	0.41	0.45	2	2	0	1500	1500	0
7/8/2024 12:26	49804	UNIV_T1	1	3	2	0.4	0.7	0.3	2.14	1.98	0	0	0	0	0	0
7/8/2024 12:26	67602	WARW_T2	0	0	0	0	0	0	0.41	0.45	2	2	0	1500	1500	0
7/8/2024 12:26	49803	UNIV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 12:26	64101	REFR_T1	10	11	1	1.84	1.74	-0.1	0.14	0.16	0	0	0	0	0	0
7/8/2024 12:26	61302	EARL_T1	0	0	0	0	0	0	0.85	1.2	3	3	0	2700	2700	0
7/8/2024 12:27	61706	ELIZ_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/8/2024 12:27	67602	WARW_T2	0	0	0	0	0	0	0.81	0.89	4	4	0	3000	3000	0
7/8/2024 12:27	61702	ELIZ_T2	0	0	0	0	0	0	-0.9	-0.89	2	2	0	1500	1500	0
7/8/2024 12:29	20601	GRWO_T2	283	425	142	1.45	1.49	0.04	1.18	1.21	0	0	0	0	0	0
7/8/2024 12:35	65903	SAKR_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/8/2024 12:35	65901	SAKR_T2	1	3	2	4.5	4.7	0.2	-0.01	0.09	2	2	0	1500	1500	0
7/8/2024 12:35	65902	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 12:36	64101	REFR_T1	10	16	6	1.88	1.63	-0.25	0.16	0.18	0	0	0	0	0	0
7/8/2024 12:36	13503	MCMI_T2	12	12	0	0.54	0.54	0	-0.48	-0.47	0	0	0	0	0	0
7/8/2024 12:37	45702	LIND_T2	1	2	1	1	0.65	-0.35	-1.13	-1.13	0	0	0	0	0	0
7/8/2024 12:38	46302	ROHR_T1	4	14	10	1.15	1.13	-0.02	0	0	0	0	0	0	0	0
7/8/2024 12:38	46301	ROHR_T1	0	1	1	0	0	0	0.49	0.51	0	0	0	0	0	0
7/8/2024 12:39	25602	ARRO_T1	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
7/8/2024 12:39	56801	BENV_T1	5	6	1	0.94	0.62	-0.32	-0.02	-0.08	2	2	0	1200	1200	0
7/8/2024 12:39	56803	BENV_T1	0	6	6	0	0.76	0.76	0	0	0	0	0	0	0	0
7/8/2024 12:39	45702	LIND_T2	1	2	1	1	0.65	-0.35	-1.13	-1.13	0	0	0	0	0	0
7/8/2024 12:40	66701	STRA_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/8/2024 12:40	66703	STRA_T1	3	7	4	0.5	0.33	-0.17	-0.03	0.09	0	0	0	0	0	0
7/8/2024 12:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/8/2024 12:41	41602	CLEV_T1	78	78	0	0.93	0.99	0.06	0	0	0	0	0	0	0	0
7/8/2024 12:41	56801	BENV_T1	5	6	1	0.94	0.62	-0.32	-0.07	-0.24	6	6	0	3600	3600	0
7/8/2024 12:41	56803	BENV_T1	0	6	6	0	0.76	0.76	0	0	0	0	0	0	0	0
7/8/2024 12:42	56803	BENV_T1	0	6	6	0	0.76	0.76	0	0	0	0	0	0	0	0
7/8/2024 12:42	24105	EHAZ_T1	4	4	0	7.43	7.43	0	0	0	0	0	0	0	0	0
7/8/2024 12:42	24101	EHAZ_T1	73	137	64	1.1	1.04	-0.06	0	0	0	0	0	0	0	0
7/8/2024 12:42	24102	EHAZ_T1	27	31	4	0.72	0.73	0.01	0.81	0.8	0	0	0	0	0	0
7/8/2024 12:42	56801	BENV_T1	5	6	1	0.94	0.62	-0.32	-0.02	-0.08	2	2	0	1200	1200	0
7/8/2024 12:43	56803	BENV_T1	0	6	6	0	0.76	0.76	0	0	0	0	0	0	0	0
7/8/2024 12:43	25603	ARRO_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
7/8/2024 12:43	56801	BENV_T1	5	6	1	0.94	0.62	-0.32	-0.01	-0.04	1	1	0	600	600	0
7/8/2024 12:44	46801	HEPB_T2	2	2	0	0.9	0.65	-0.25	0.44	0.44	0	0	0	0	0	0
7/8/2024 12:44	46803	HEPB_T2	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/8/2024 12:44	11507	FREE_T2	274	89	-185	0.96	0.88	-0.08	0.54	0.62	1	1	0	600	600	0
7/8/2024 12:45	22903	HARW_T1	22	22	0	1.22	1.23	0.01	-0.3	-0.13	0	0	0	0	0	0
7/8/2024 12:45	22901	HARW_T1	31	44	13	0.98	0.86	-0.12	0	0	0	0	0	0	0	0
7/8/2024 12:46	13503	MCMI_T2	12	6	-6	0.54	0.5	-0.04	-0.47	-0.44	0	0	0	0	0	0
7/8/2024 12:47	43201	MVIL_T2	29	49	20	0.53	0.58	0.05	0	0	0	0	0	0	0	0
7/8/2024 12:47	58402	MORO_T1	1	2	1	1.3	1	-0.3	-0.75	-0.73	5	5	0	3150	3150	0
7/8/2024 12:47	43202	MVIL_T2	4	3	-1	0.68	0	-0.68	-0.3	-0.29	0	0	0	0	0	0
7/8/2024 12:47	46801	HEPB_T2	2	2	0	0.65	0.7	0.05	0.44	0.44	0	0	0	0	0	0
7/8/2024 12:47	22901	HARW_T1	31	44	13	0.98	0.86	-0.12	0	0	0	0	0	0	0	0
7/8/2024 12:47	22903	HARW_T1	22	22	0	1.22	1.23	0.01	-0.3	-0.13	0	0	0	0	0	0
7/8/2024 12:47	58401	MORO_T1	2	5	3	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/8/2024 12:47	46803	HEPB_T2	2	1	-1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/8/2024 12:48	65503	MOJO_T2	4	5	1	0.7	0.6	-0.1	0.44	0.45	1	1	0	900	900	0
7/8/2024 12:50	65602	QVIL_T2	2	1	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/8/2024 12:50	43201	MVIL_T2	29	49	20	0.53	0.58	0.05	0	0	0	0	0	0	0	0
7/8/2024 12:50	65604	QVIL_T2	7	11	4	0.24	0.35	0.11	1.12	1.13	0	0	0	0	0	0
7/8/2024 12:50	43202	MVIL_T2	4	3	-1	0.68	0	-0.68	-0.3	-0.29	0	0	0	0	0	0
7/8/2024 12:51	43201	MVIL_T2	29	49	20	0.53	0.58	0.05	0	0	0	0	0	0	0	0
7/8/2024 12:51	43202	MVIL_T2	4	3	-1	0.68	0	-0.68	-0.29	-0.32	0	0	0	0	0	0
7/8/2024 12:51	65604	QVIL_T2	7	11	4	0.24	0.35	0.11	1.13	1.14	0	0	0	0	0	0
7/8/2024 12:51	65602	QVIL_T2	2	1	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/8/2024 12:52	65604	QVIL_T2	7	11	4	0.24	0.35	0.11	1.13	1.14	0	0	0	0	0	0
7/8/2024 12:52	65602	QVIL_T2	2	1	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/8/2024 12:54	56801	BENV_T1	5	7	2	0.62	0.43	-0.19	-0.04	0.04	1	1	0	600	600	0
7/8/2024 12:54	56803	BENV_T1	6	11	5	0.73	0.6	-0.13	0	0	0	0	0	0	0	0
7/8/2024 12:55	56801	BENV_T1	5	7	2	0.62	0.43	-0.19	-0.04	0.04	1	1	0	600	600	0
7/8/2024 12:55	56803	BENV_T1	6	11	5	0.73	0.6	-0.13	0	0	0	0	0	0	0	0
7/8/2024 12:56	56801	BENV_T1	5	7	2	0.62	0.43	-0.19	-0.08	0.07	2	2	0	1200	1200	0
7/8/2024 12:56	56803	BENV_T1	6	11	5	0.73	0.6	-0.13	0	0	0	0	0	0	0	0
7/8/2024 12:57	56803	BENV_T1	6	11	5	0.73	0.6	-0.13	0	0	0	0	0	0	0	0
7/8/2024 12:57	56801	BENV_T1	5	7	2	0.62	0.43	-0.19	-0.08	0.07	2	2	0	1200	1200	0
7/8/2024 12:58	56801	BENV_T1	5	7	2	0.62	0.43	-0.19	-0.04	0.04	1	1	0	600	600	0
7/8/2024 12:58	56803	BENV_T1	6	11	5	0.73	0.6	-0.13	0	0	0	0	0	0	0	0
7/8/2024 12:59	42701	AUGU_T1	51	59	8	0.65	0.64	-0.01	0	0	2	2	0	1800	1800	0
7/8/2024 12:59	22901	HARW_T1	31	44	13	0.98	0.86	-0.12	0.24	0.15	1	1	0	1200	1200	0
7/8/2024 12:59	56803	BENV_T1	6	11	5	0.73	0.6	-0.13	0	0	0	0	0	0	0	0
7/8/2024 12:59	24101	EHAZ_T1	89	149	60	1.1	1.07	-0.03	0	0	0	0	0	0	0	0
7/8/2024 12:59	24103	EHAZ_T1	0	0	0	0	0	0	-0.93	-0.95	0	0	0	0	0	0
7/8/2024 12:59	24102	EHAZ_T1	29	29	0	0.83	0.62	-0.21	0	0	0	0	0	0	0	0
7/8/2024 12:59	22903	HARW_T1	22	22	0	1.22	1.23	0.01	0	0	0	0	0	0	0	0
7/8/2024 12:59	24105	EHAZ_T1	4	4	0	7.53	7.15	-0.38	0	0	0	0	0	0	0	0
7/8/2024 12:59	56801	BENV_T1	5	7	2	0.62	0.43	-0.19	-0.04	0.04	1	1	0	600	600	0
7/8/2024 13:00	40101	HUNT_T2	121	144	23	0.53	0.52	-0.01	-0.62	-0.64	0	0	0	0	0	0
7/8/2024 13:01	52006	LING_T2	6	1	-5	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/8/2024 13:01	52002	LING_T2	24	7	-17	0.58	0.7	0.12	0	0	0	0	0	0	0	0
7/8/2024 13:01	52004	LING_T2	1	0	-1	0.3	0	-0.3	0.95	0.68	0	0	0	0	0	0
7/8/2024 13:01	49803	UNIV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 13:01	53803	MBRG_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
7/8/2024 13:01	49804	UNIV_T1	1	4	3	0.5	1.5	1	1.05	1.23	0	0	0	0	0	0
7/8/2024 13:02	59002	MIFF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 13:02	59003	MIFF_T1	219	269	50	1.14	1.68	0.54	-0.38	-0.13	0	0	0	0	0	0
7/8/2024 13:03	64203	KINZ_T1	14	98	84	0.81	0.87	0.06	0.72	0.64	3	3	0	2100	2100	0
7/8/2024 13:03	40101	HUNT_T2	121	144	23	0.53	0.52	-0.01	-0.62	-0.64	0	0	0	0	0	0
7/8/2024 13:03	48301	ORWI_T1	10	15	5	0.7	0.68	-0.02	0.14	0.08	1	1	0	900	900	0
7/8/2024 13:03	64204	KINZ_T1	17	72	55	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
7/8/2024 13:03	64202	KINZ_T1	16	52	36	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
7/8/2024 13:03	53802	MBRG_T2	0	0	0	0	0	0	0.94	0.93	0	0	0	0	0	0
7/8/2024 13:03	64201	KINZ_T1	51	417	366	0.29	0.42	0.13	0	0	0	0	0	0	0	0
7/8/2024 13:04	59003	MIFF_T1	219	269	50	1.14	1.68	0.54	-0.38	-0.13	0	0	0	0	0	0
7/8/2024 13:04	59002	MIFF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 13:07	55408	SHER_T2	2	3	1	0.95	0.75	-0.2	-0.57	-0.57	2	2	0	2400	2400	0
7/8/2024 13:07	43301	WATS_T2	0	0	0	0	0	0	0.1	0.08	1	1	0	900	900	0
7/8/2024 13:07	14101	TRUM_T2	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
7/8/2024 13:07	43304	WATS_T2	6	18	12	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
7/8/2024 13:07	48301	ORWI_T1	10	15	5	0.7	0.68	-0.02	0.08	0.05	1	1	0	900	900	0
7/8/2024 13:07	14102	TRUM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 13:07	14103	TRUM_T2	140	223	83	0.38	0.75	0.37	0	0	0	0	0	0	0	0
7/8/2024 13:09	56801	BENV_T1	4	5	1	0.43	0.63	0.2	0.04	0.04	1	1	0	600	600	0
7/8/2024 13:09	56803	BENV_T1	5	12	7	1.02	1.11	0.09	0	0	0	0	0	0	0	0
7/8/2024 13:11	24902	WHHA_T1	12	27	15	0.56	0.46	-0.1	0.47	0.46	0	0	0	0	0	0
7/8/2024 13:11	66703	STRA_T1	6	32	26	0.48	0.43	-0.05	0.02	0.09	0	0	0	0	0	0
7/8/2024 13:11	24901	WHHA_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/8/2024 13:11	66701	STRA_T1	1	5	4	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/8/2024 13:12	44302	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 13:12	20401	ASHF_T2	7	28	21	1.16	0.83	-0.33	0	0	0	0	0	0	0	0
7/8/2024 13:12	29402	BELT_T1	11	16	5	0.87	2.93	2.06	0	0	0	0	0	0	0	0
7/8/2024 13:12	57104	SPHI_T2	0	0	0	0	0	0	-0.44	-0.43	1	1	0	900	900	0
7/8/2024 13:12	29401	BELT_T1	17	36	19	0.37	0.79	0.42	0	0	0	0	0	0	0	0
7/8/2024 13:12	44301	BEAV_T2	66	57	-9	0.7	0.69	-0.01	1.35	1.7	2	2	0	1500	1500	0
7/8/2024 13:12	20402	ASHF_T2	34	61	27	0.89	0.97	0.08	0	0	0	0	0	0	0	0
7/8/2024 13:12	20403	ASHF_T2	96	125	29	0.62	0.91	0.29	1.88	1.38	0	0	0	0	0	0
7/8/2024 13:13	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 13:13	44301	BEAV_T2	66	57	-9	0.7	0.69	-0.01	1.35	1.7	2	2	0	1500	1500	0
7/8/2024 13:13	21206	ECAR_T2	79	221	142	1.02	0.97	-0.05	0.82	0.82	0	0	0	0	0	0
7/8/2024 13:13	44302	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 13:14	40101	HUNT_T2	121	144	23	0.53	0.52	-0.01	-1.27	-2.15	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/8/2024 13:14	63803	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 13:14	61306	EARL_T1	0	0	0	0	0	0	-1.08	-1.08	0	0	0	0	0	0
7/8/2024 13:14	63804	HEMP_T1	1	5	4	8.3	8.4	0.1	0.63	0.64	0	0	0	0	0	0
7/8/2024 13:15	21206	ECAR_T2	156	215	59	1.03	1.18	0.15	0.82	0.82	0	0	0	0	0	0
7/8/2024 13:15	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 13:17	44703	MUNC_T2	0	0	0	0	0	0	1.36	1.43	0	0	0	0	0	0
7/8/2024 13:18	64204	KINZ_T1	23	160	137	0.45	0.57	0.12	0	0	0	0	0	0	0	0
7/8/2024 13:18	64201	KINZ_T1	127	467	340	0.42	0.91	0.49	0	0	0	0	0	0	0	0
7/8/2024 13:18	64203	KINZ_T1	27	187	160	0.87	0.73	-0.14	0.64	0.79	3	3	0	2100	2100	0
7/8/2024 13:18	60803	BUCK_T1	0	0	0	0	0	0	-0.1	-0.07	1	1	0	600	600	0
7/8/2024 13:18	64202	KINZ_T1	22	59	37	0.44	0.87	0.43	0	0	0	0	0	0	0	0
7/8/2024 13:19	64202	KINZ_T1	22	59	37	0.44	0.87	0.43	0	0	0	0	0	0	0	0
7/8/2024 13:19	64201	KINZ_T1	127	467	340	0.42	0.91	0.49	0	0	0	0	0	0	0	0
7/8/2024 13:19	64204	KINZ_T1	23	160	137	0.45	0.57	0.12	0	0	0	0	0	0	0	0
7/8/2024 13:19	64203	KINZ_T1	27	187	160	0.87	0.73	-0.14	0.64	0.79	3	3	0	2100	2100	0
7/8/2024 13:20	14401	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 13:20	14403	SSLA_T1	15	15	0	0.74	0.67	-0.07	1.23	1.23	1	1	0	600	600	0
7/8/2024 13:20	46301	ROHR_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/8/2024 13:20	42201	SHEN_T2	0	0	0	0	0	0	0.62	0.03	1	1	0	600	600	0
7/8/2024 13:20	14404	SSLA_T1	27	28	1	0.92	1.12	0.2	0	0	0	0	0	0	0	0
7/8/2024 13:20	57401	SPAN_T1	17	10	-7	0.67	0.55	-0.12	-0.81	-0.7	1	1	0	600	600	0
7/8/2024 13:20	46302	ROHR_T1	6	6	0	1.3	1.12	-0.18	0.45	0.46	0	0	0	0	0	0
7/8/2024 13:20	57403	SPAN_T1	9	2	-7	0.58	0.1	-0.48	0	0	0	0	0	0	0	0
7/8/2024 13:21	55002	NEWP_T1	1	1	0	1.1	0.3	-0.8	0	0	0	0	0	0	0	0
7/8/2024 13:21	55001	NEWP_T1	53	73	20	0.98	1.16	0.18	0.04	0.02	0	0	0	0	0	0
7/8/2024 13:22	17001	RIRO_T1	1	3	2	1	0.4	-0.6	0.41	0.45	0	0	0	0	0	0
7/8/2024 13:23	42201	SHEN_T2	0	0	0	0	0	0	0.03	0.01	1	1	0	600	600	0
7/8/2024 13:23	67804	WLAN_T1	10	0	0	2.1	1.61	-0.49	0	0	0	0	0	0	0	0
7/8/2024 13:23	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 13:23	59202	THOM_T1	6	11	5	0.9	0.63	-0.27	0	0	0	0	0	0	0	0
7/8/2024 13:23	56504	ROCK_T2	11	29	18	0.32	0.42	0.1	0	0	0	0	0	0	0	0
7/8/2024 13:23	67803	WLAN_T1	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
7/8/2024 13:23	67801	WLAN_T1	71	49	-22	0.66	0.6	-0.06	0	0	0	0	0	0	0	0
7/8/2024 13:23	56501	ROCK_T2	3	4	1	0.33	0.45	0.12	-1.99	-1.94	0	0	0	0	0	0
7/8/2024 13:24	46302	ROHR_T1	6	6	0	1.3	1.12	-0.18	0.46	0.47	0	0	0	0	0	0
7/8/2024 13:24	57404	SPAN_T2	6	7	1	0.17	0	-0.17	-0.84	-0.82	1	1	0	1200	1200	0
7/8/2024 13:24	56803	BENV_T1	10	13	3	1.15	1.32	0.17	0.1	0.2	1	1	0	600	600	0
7/8/2024 13:24	56801	BENV_T1	5	8	3	0.54	0.4	-0.14	0	0	0	0	0	0	0	0
7/8/2024 13:24	56501	ROCK_T2	3	4	1	0.33	0.45	0.12	-5.98	-5.81	0	0	0	0	0	0
7/8/2024 13:24	46301	ROHR_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/8/2024 13:24	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 13:24	56504	ROCK_T2	11	29	18	0.32	0.42	0.1	0.53	0.52	0	0	0	0	0	0
7/8/2024 13:24	64101	REFR_T1	13	16	3	1.33	1.97	0.64	0.24	0.23	0	0	0	0	0	0
7/8/2024 13:25	56501	ROCK_T2	3	4	1	0.33	0.45	0.12	-3.99	-3.87	0	0	0	0	0	0
7/8/2024 13:25	56504	ROCK_T2	11	29	18	0.32	0.42	0.1	0	0	0	0	0	0	0	0
7/8/2024 13:25	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 13:25	61703	ELIZ_T1	0	0	0	0	0	0	-1.83	-1.88	2	2	0	2100	2100	0
7/8/2024 13:25	61701	ELIZ_T1	2	1	-1	1.75	2.3	0.55	0	0	0	0	0	0	0	0
7/8/2024 13:26	67605	WARW_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/8/2024 13:26	56504	ROCK_T2	11	29	18	0.32	0.42	0.1	0	0	0	0	0	0	0	0
7/8/2024 13:26	67603	WARW_T1	0	0	0	0	0	0	-0.77	-0.74	0	0	0	0	0	0
7/8/2024 13:26	56501	ROCK_T2	3	4	1	0.33	0.45	0.12	-1.99	-1.94	0	0	0	0	0	0
7/8/2024 13:26	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 13:26	53601	DALM_T2	1	6	5	1.1	0.7	-0.4	0.15	0.19	1	1	0	900	900	0
7/8/2024 13:27	11103	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 13:27	11102	EGYP_T1	21	32	11	0.9	0.89	-0.01	0	0	0	0	0	0	0	0
7/8/2024 13:27	11104	EGYP_T1	9	24	15	1.21	0.8	-0.41	0.44	0.43	1	1	0	900	900	0
7/8/2024 13:27	11101	EGYP_T1	4	7	3	3.45	2.78	-0.67	0	0	0	0	0	0	0	0
7/8/2024 13:28	56801	BENV_T1	5	8	3	0.54	0.4	-0.14	0.07	-1.01	2	4	2	1200	2400	1200
7/8/2024 13:28	29401	BELT_T1	36	35	-1	0.78	0.76	-0.02	0	0	0	0	0	0	0	0
7/8/2024 13:28	15001	BLMO_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
7/8/2024 13:28	29402	BELT_T1	13	45	32	0.29	0.38	0.09	0	0	0	0	0	0	0	0
7/8/2024 13:28	56803	BENV_T1	10	13	3	1.15	1.32	0.17	0	0	0	0	0	0	0	0
7/8/2024 13:29	22903	HARW_T1	22	26	4	1.97	1.9	-0.07	0	0	0	0	0	0	0	0
7/8/2024 13:29	64204	KINZ_T1	23	160	137	0.45	0.57	0.12	0	0	0	0	0	0	0	0
7/8/2024 13:29	64202	KINZ_T1	22	59	37	0.44	0.87	0.43	0	0	0	0	0	0	0	0
7/8/2024 13:29	29402	BELT_T1	13	45	32	0.29	0.38	0.09	0	0	0	0	0	0	0	0
7/8/2024 13:29	64203	KINZ_T1	27	187	160	0.87	0.73	-0.14	0	0	0	0	0	0	0	0
7/8/2024 13:29	64201	KINZ_T1	127	467	340	0.42	0.91	0.49	-0.19	-0.27	5	5	0	3300	3300	0
7/8/2024 13:29	29401	BELT_T1	36	35	-1	0.78	0.76	-0.02	0	0	1	1	0	900	900	0
7/8/2024 13:29	22901	HARW_T1	35	38	3	0.86	0.62	-0.24	0.05	-0.07	1	1	0	1200	1200	0
7/8/2024 13:30	11103	EGYP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 13:30	40101	HUNT_T2	74	178	104	0.54	0.58	0.04	-2.15	-2.16	0	0	0	0	0	0
7/8/2024 13:30	11101	EGYP_T1	5	8	3	2.98	1.21	-1.77	0	0	0	0	0	0	0	0
7/8/2024 13:30	11102	EGYP_T1	31	29	-2	1.1	0.88	-0.22	0	0	0	0	0	0	0	0
7/8/2024 13:30	11104	EGYP_T1	22	20	-2	0.68	0.87	0.19	0.44	0.43	1	1	0	900	900	0
7/8/2024 13:31	40101	HUNT_T2	74	178	104	0.54	0.58	0.04	-1.08	-1.08	0	0	0	0	0	0
7/8/2024 13:32	60501	NMAN_T2	4	4	0	2.5	3.1	0.6	0	0	0	0	0	0	0	0
7/8/2024 13:32	60504	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/8/2024 13:32	64204	KINZ_T1	72	193	121	0.57	0.8	0.23	0	0	0	0	0	0	0	0
7/8/2024 13:32	60502	NMAN_T2	1	0	-1	0.1	0	-0.1	-0.19	-0.22	0	0	0	0	0	0
7/8/2024 13:32	64202	KINZ_T1	52	60	8	0.87	1.34	0.47	0	0	0	0	0	0	0	0
7/8/2024 13:32	64201	KINZ_T1	417	489	72	0.91	1.13	0.22	-0.19	-0.27	5	5	0	3300	3300	0
7/8/2024 13:32	64203	KINZ_T1	98	199	101	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
7/8/2024 13:33	64202	KINZ_T1	52	60	8	0.87	1.34	0.47	0	0	0	0	0	0	0	0
7/8/2024 13:33	64201	KINZ_T1	417	489	72	0.91	1.13	0.22	0	0	0	0	0	0	0	0
7/8/2024 13:33	64204	KINZ_T1	72	193	121	0.57	0.8	0.23	0	0	0	0	0	0	0	0
7/8/2024 13:33	64203	KINZ_T1	98	199	101	0.8	0.65	-0.15	0.79	0.86	3	3	0	2100	2100	0
7/8/2024 13:33	53802	MBRG_T2	0	1	1	0	0.7	0.7	1.05	1.21	0	0	0	0	0	0
7/8/2024 13:34	64201	KINZ_T1	417	489	72	0.91	1.13	0.22	-0.19	-0.27	5	5	0	3300	3300	0
7/8/2024 13:34	64204	KINZ_T1	72	193	121	0.57	0.8	0.23	0	0	0	0	0	0	0	0
7/8/2024 13:34	64202	KINZ_T1	52	60	8	0.87	1.34	0.47	0	0	0	0	0	0	0	0
7/8/2024 13:34	64203	KINZ_T1	98	199	101	0.8	0.65	-0.15	0.79	0.86	3	3	0	2100	2100	0
7/8/2024 13:34	22602	KIMB_T1	0	0	0	0	0	0	0.48	0.15	0	0	0	0	0	0
7/8/2024 13:34	22601	KIMB_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/8/2024 13:36	66902	SHIL_T2	4	6	2	0.83	0.83	0	0	0	0	0	0	0	0	0
7/8/2024 13:36	66901	SHIL_T2	0	0	0	0	0	0	-1.06	-1.08	0	0	0	0	0	0
7/8/2024 13:37	45702	LIND_T2	0	3	3	0	0.27	0.27	-1.07	-1.06	0	0	0	0	0	0
7/8/2024 13:38	27605	PIRI_T2	948	1011	63	1.03	1.01	-0.02	1.62	1.76	0	0	0	0	0	0
7/8/2024 13:38	27603	PIRI_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
7/8/2024 13:39	50701	SMEC_T1	0	0	0	0	0	0	-0.58	-0.58	2	2	0	2100	2100	0
7/8/2024 13:39	43301	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/8/2024 13:39	43304	WATS_T2	11	22	11	0.31	0.39	0.08	-0.07	-0.04	1	1	0	600	600	0
7/8/2024 13:39	60201	ATGL_T2	0	3	3	0	0	0	0.72	0.67	2	2	0	900	900	0
7/8/2024 13:40	56504	ROCK_T2	27	29	2	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
7/8/2024 13:40	43304	WATS_T2	11	22	11	0.31	0.39	0.08	-0.07	-0.04	1	1	0	600	600	0
7/8/2024 13:40	56501	ROCK_T2	4	3	-1	0.45	0.47	0.02	-1.94	-1.94	0	0	0	0	0	0
7/8/2024 13:40	43301	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/8/2024 13:41	56501	ROCK_T2	4	3	-1	0.45	0.47	0.02	-1.94	-1.94	0	0	0	0	0	0
7/8/2024 13:41	43304	WATS_T2	11	22	11	0.31	0.39	0.08	-0.07	-0.04	1	1	0	600	600	0
7/8/2024 13:41	56504	ROCK_T2	27	29	2	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
7/8/2024 13:41	43301	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/8/2024 13:41	61703	ELIZ_T1	1	1	0	2.3	2.1	-0.2	1.82	1.69	0	0	0	0	0	0
7/8/2024 13:42	46203	DANV_T2	1	4	3	0.1	0.15	0.05	-1.96	-1.97	0	0	0	0	0	0
7/8/2024 13:42	46204	DANV_T2	127	138	11	0.62	0.6	-0.02	0	0	0	0	0	0	0	0
7/8/2024 13:42	46205	DANV_T2	1	11	10	0.2	0.2	0	0	0	0	0	0	0	0	0
7/8/2024 13:42	46206	DANV_T2	89	105	16	1.31	1.22	-0.09	0	0	0	0	0	0	0	0
7/8/2024 13:43	46205	DANV_T2	1	11	10	0.2	0.2	0	0	0	0	0	0	0	0	0
7/8/2024 13:43	46204	DANV_T2	127	138	11	0.62	0.6	-0.02	0	0	0	0	0	0	0	0
7/8/2024 13:43	64301	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 13:43	46203	DANV_T2	1	4	3	0.1	0.15	0.05	-1.96	-1.97	0	0	0	0	0	0
7/8/2024 13:43	46206	DANV_T2	89	105	16	1.31	1.22	-0.09	0	0	0	0	0	0	0	0
7/8/2024 13:43	64305	LINC_T1	1	1	0	1	1	0	-0.29	-0.18	0	0	0	0	0	0
7/8/2024 13:43	61701	ELIZ_T1	1	1	0	2.3	2.1	-0.2	1.82	1.69	0	0	0	0	0	0
7/8/2024 13:44	46204	DANV_T2	127	138	11	0.62	0.6	-0.02	0	0	0	0	0	0	0	0
7/8/2024 13:44	46206	DANV_T2	89	105	16	1.31	1.22	-0.09	0	0	0	0	0	0	0	0
7/8/2024 13:44	64201	KINZ_T1	417	489	72	0.91	1.13	0.22	0	0	0	0	0	0	0	0
7/8/2024 13:44	64203	KINZ_T1	98	199	101	0.8	0.65	-0.15	0.86	0.78	3	3	0	2100	2100	0
7/8/2024 13:44	46203	DANV_T2	1	4	3	0.1	0.15	0.05	-1.96	-1.97	0	0	0	0	0	0
7/8/2024 13:44	64202	KINZ_T1	52	60	8	0.87	1.34	0.47	0	0	0	0	0	0	0	0
7/8/2024 13:44	46205	DANV_T2	1	11	10	0.2	0.2	0	0	0	0	0	0	0	0	0
7/8/2024 13:44	64204	KINZ_T1	72	193	121	0.57	0.8	0.23	0	0	0	0	0	0	0	0
7/8/2024 13:45	46205	DANV_T2	10	5	-5	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/8/2024 13:45	52004	LING_T2	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
7/8/2024 13:45	52002	LING_T2	4	5	1	1.03	0.45	-0.58	0	0	0	0	0	0	0	0
7/8/2024 13:45	46206	DANV_T2	104	97	-7	1.32	1.2	-0.12	0	0	0	0	0	0	0	0
7/8/2024 13:45	46203	DANV_T2	0	6	6	0	0.13	0.13	-1.96	-1.97	0	0	0	0	0	0
7/8/2024 13:45	46204	DANV_T2	136	125	-11	0.76	0.49	-0.27	0	0	0	0	0	0	0	0
7/8/2024 13:45	64204	KINZ_T1	160	225	65	0.79	0.73	-0.06	0	0	0	0	0	0	0	0
7/8/2024 13:45	64203	KINZ_T1	187	285	98	0.63	0.72	0.09	0.86	0.78	3	3	0	2100	2100	0
7/8/2024 13:45	64201	KINZ_T1	467	480	13	1.33	1.14	-0.19	0	0	0	0	0	0	0	0
7/8/2024 13:45	64202	KINZ_T1	59	63	4	1.32	1.46	0.14	0	0	0	0	0	0	0	0
7/8/2024 13:45	52006	LING_T2	4	7	3	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
7/8/2024 13:46	59003	MIFF_T1	335	327	-8	1.81	1.47	-0.34	-0.13	0.09	0	0	0	0	0	0
7/8/2024 13:46	59002	MIFF_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 13:47	55001	NEWP_T1	70	86	16	1.25	1.25	0	0.06	0.07	0	0	0	0	0	0
7/8/2024 13:47	55002	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 13:49	59003	MIFF_T1	335	327	-8	1.81	1.47	-0.34	-0.13	0.09	0	0	0	0	0	0
7/8/2024 13:49	12704	MACU_T1	6	6	0	0.47	0.38	-0.09	0	0	0	0	0	0	0	0
7/8/2024 13:49	65601	QVIL_T2	1	11	10	0.5	0.65	0.15	0	0	0	0	0	0	0	0
7/8/2024 13:49	59002	MIFF_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 13:49	65602	QVIL_T2	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
7/8/2024 13:49	12701	MACU_T1	108	93	-15	0.74	0.72	-0.02	-0.86	-0.87	2	2	0	2400	2400	0
7/8/2024 13:49	65604	QVIL_T2	1	11	10	1	1.9	0.9	0.62	0.62	0	0	0	0	0	0
7/8/2024 13:50	64101	REFR_T1	16	11	-5	1.73	0.94	-0.79	0.23	0.26	0	0	0	0	0	0
7/8/2024 13:51	64101	REFR_T1	16	11	-5	1.73	0.94	-0.79	0.26	-0.31	0	0	0	0	0	0
7/8/2024 13:53	51003	NHAR_T1	0	1	1	0	0	0	-1.65	-1.46	1	1	0	1200	1200	0
7/8/2024 13:53	42701	AUGU_T1	64	73	9	1.31	1.49	0.18	0	0	2	2	0	1800	1800	0
7/8/2024 13:53	51004	NHAR_T1	3	14	11	2.73	2.03	-0.7	0	0	0	0	0	0	0	0
7/8/2024 13:54	66703	STRA_T1	44	57	13	0.47	0.49	0.02	0	0	0	0	0	0	0	0
7/8/2024 13:54	43301	WATS_T2	1	0	-1	0.3	0	-0.3	0.14	0.14	1	1	0	900	900	0
7/8/2024 13:54	66701	STRA_T1	1	10	9	0.3	0.78	0.48	1.04	1.16	1	1	0	600	600	0
7/8/2024 13:54	15001	BLMO_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/8/2024 13:54	43304	WATS_T2	12	22	10	0.49	0.8	0.31	0	0	0	0	0	0	0	0
7/8/2024 13:55	66701	STRA_T1	1	10	9	0.3	0.78	0.48	1.04	1.16	1	1	0	600	600	0
7/8/2024 13:55	44301	BEAV_T2	26	12	-14	0.81	1.37	0.56	0.83	0.74	2	2	0	1500	1500	0
7/8/2024 13:55	58003	WCAR_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/8/2024 13:55	66703	STRA_T1	44	57	13	0.47	0.49	0.02	0	0	0	0	0	0	0	0
7/8/2024 13:55	58001	WCAR_T1	0	0	0	0	0	0	-0.65	-0.6	0	0	0	0	0	0
7/8/2024 13:55	44302	BEAV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/8/2024 13:56	66703	STRA_T1	44	57	13	0.47	0.49	0.02	0	0	0	0	0	0	0	0
7/8/2024 13:56	42701	AUGU_T1	64	73	9	1.31	1.49	0.18	0	0	2	2	0	1800	1800	0
7/8/2024 13:56	66701	STRA_T1	1	10	9	0.3	0.78	0.48	1.04	1.16	1	1	0	600	600	0
7/8/2024 13:57	46204	DANV_T2	136	125	-11	0.76	0.49	-0.27	0	0	0	0	0	0	0	0
7/8/2024 13:57	46203	DANV_T2	0	6	6	0	0.13	0.13	-1.97	-1.91	0	0	0	0	0	0
7/8/2024 13:57	46205	DANV_T2	10	5	-5	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/8/2024 13:57	46206	DANV_T2	104	97	-7	1.32	1.2	-0.12	0	0	0	0	0	0	0	0
7/8/2024 14:01	46205	DANV_T2	3	2	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/8/2024 14:01	46204	DANV_T2	122	91	-31	0.61	0.51	-0.1	0	0	0	0	0	0	0	0
7/8/2024 14:01	46206	DANV_T2	83	97	14	1.22	1.1	-0.12	0	0	0	0	0	0	0	0
7/8/2024 14:01	46203	DANV_T2	4	7	3	0.15	0.23	0.08	-1.97	-1.91	0	0	0	0	0	0
7/8/2024 14:04	22602	KIMB_T1	0	0	0	0	0	0	0.12	0.5	0	0	0	0	0	0
7/8/2024 14:04	22601	KIMB_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/8/2024 14:05	13103	NHAM_T2	4	6	2	0.15	0.15	0	0	0	0	0	0	0	0	0
7/8/2024 14:05	13105	NHAM_T2	58	100	42	0.82	0.87	0.05	-1.4	-1.41	1	1	0	1200	1200	0
7/8/2024 14:05	48302	ORWI_T2	108	158	50	0.59	0.54	-0.05	0.22	0.24	0	0	0	0	0	0
7/8/2024 14:05	13102	NHAM_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/8/2024 14:05	13503	MCMI_T2	3	3	0	0.43	0.33	-0.1	-0.43	-0.41	0	0	0	0	0	0
7/8/2024 14:06	66504	SMAN_T2	9	22	13	0.56	1.02	0.46	0	0	0	0	0	0	0	0
7/8/2024 14:06	53802	MBRG_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/8/2024 14:06	66503	SMAN_T2	8	21	13	0.6	0.56	-0.04	0	0	0	0	0	0	0	0
7/8/2024 14:06	53803	MBRG_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
7/8/2024 14:06	66505	SMAN_T2	183	292	109	1.02	1.21	0.19	0.9	0.72	4	4	0	2300	2300	0
7/8/2024 14:11	46206	DANV_T2	83	97	14	1.22	1.1	-0.12	0	0	0	0	0	0	0	0
7/8/2024 14:11	46204	DANV_T2	122	91	-31	0.61	0.51	-0.1	0	0	0	0	0	0	0	0
7/8/2024 14:11	46205	DANV_T2	3	2	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/8/2024 14:11	46203	DANV_T2	4	7	3	0.15	0.23	0.08	-1.91	-1.94	0	0	0	0	0	0
7/8/2024 14:12	11101	EGYP_T1	8	6	-2	1.15	1.28	0.13	0	0	0	0	0	0	0	0
7/8/2024 14:12	11104	EGYP_T1	18	16	-2	1.1	0.87	-0.23	0.47	-0.45	1	1	0	900	900	0
7/8/2024 14:12	11102	EGYP_T1	25	38	13	0.92	0.97	0.05	0	0	0	0	0	0	0	0
7/8/2024 14:13	66703	STRA_T1	54	47	-7	0.52	0.2	-0.32	0.13	-0.98	0	0	0	0	0	0
7/8/2024 14:13	66701	STRA_T1	9	10	1	1.09	0.34	-0.75	0	0	0	0	0	0	0	0
7/8/2024 14:14	46203	DANV_T2	4	7	3	0.15	0.23	0.08	-3.82	-3.88	0	0	0	0	0	0
7/8/2024 14:14	66701	STRA_T1	9	10	1	1.09	0.34	-0.75	0	0	0	0	0	0	0	0
7/8/2024 14:14	46206	DANV_T2	83	97	14	1.22	1.1	-0.12	0	0	0	0	0	0	0	0
7/8/2024 14:14	46204	DANV_T2	122	91	-31	0.61	0.51	-0.1	0	0	0	0	0	0	0	0
7/8/2024 14:14	66703	STRA_T1	54	47	-7	0.52	0.2	-0.32	0.13	-0.98	0	0	0	0	0	0
7/8/2024 14:14	46205	DANV_T2	3	2	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/8/2024 14:15	66703	STRA_T1	47	1	-46	0.5	0	-0.5	0.13	-0.98	0	0	0	0	0	0
7/8/2024 14:15	46204	DANV_T2	91	114	23	0.48	0.49	0.01	0	0	0	0	0	0	0	0
7/8/2024 14:15	66701	STRA_T1	10	7	-3	0.76	0.38	-0.38	0	0	0	0	0	0	0	0
7/8/2024 14:15	46205	DANV_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 14:15	46203	DANV_T2	5	7	2	0.14	0.26	0.12	-1.91	-1.94	0	0	0	0	0	0
7/8/2024 14:15	46206	DANV_T2	96	90	-6	1.19	1.18	-0.01	0	0	0	0	0	0	0	0
7/8/2024 14:16	22905	HARW_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 14:16	53501	EVIL_T2	34	86	52	0.65	0.61	-0.04	-0.53	-0.4	4	4	0	2300	2300	0
7/8/2024 14:16	53502	EVIL_T2	5	9	4	1.16	1	-0.16	0	0	0	0	0	0	0	0
7/8/2024 14:16	22901	HARW_T1	34	51	17	0.82	1.07	0.25	0.17	0.04	1	1	0	1200	1200	0
7/8/2024 14:16	22903	HARW_T1	26	26	0	2.9	1.82	-1.08	0	0	0	0	0	0	0	0
7/8/2024 14:17	40101	HUNT_T2	172	213	41	0.62	0.64	0.02	-2.15	-2.07	0	0	0	0	0	0
7/8/2024 14:18	52002	LING_T2	5	5	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
7/8/2024 14:18	52006	LING_T2	7	4	-3	0.93	0.25	-0.68	0	0	0	0	0	0	0	0
7/8/2024 14:18	52004	LING_T2	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
7/8/2024 14:18	57302	MOAL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/8/2024 14:18	57303	MOAL_T2	1	1	0	8.4	8.5	0.1	0	0	0	0	0	0	0	0
7/8/2024 14:18	57304	MOAL_T2	26	34	8	1.39	1.4	0.01	-0.03	0	0	0	0	0	0	0
7/8/2024 14:21	13503	MCMI_T2	3	3	0	0.23	0.23	0	-0.41	-0.42	0	0	0	0	0	0
7/8/2024 14:21	60803	BUCK_T1	0	2	2	0	0.15	0.15	-0.07	-0.7	1	1	0	600	600	0
7/8/2024 14:22	65901	SAKR_T2	18	20	2	0.63	0.9	0.27	0.12	0.2	2	2	0	1500	1500	0
7/8/2024 14:22	52006	LING_T2	7	4	-3	0.93	0.25	-0.68	0	0	0	0	0	0	0	0
7/8/2024 14:22	52002	LING_T2	5	5	0	0.4	0.8	0.4	-0.35	-0.3	1	1	0	900	900	0
7/8/2024 14:22	65903	SAKR_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/8/2024 14:22	65902	SAKR_T2	1	2	1	3.2	3.2	0	0	0	0	0	0	0	0	0
7/8/2024 14:23	43304	WATS_T2	4	10	6	0.63	0.63	0	-0.66	-0.62	1	1	0	600	600	0
7/8/2024 14:24	65902	SAKR_T2	1	2	1	3.2	3.2	0	0	0	0	0	0	0	0	0
7/8/2024 14:24	65901	SAKR_T2	18	20	2	0.63	0.9	0.27	0.12	0.2	2	2	0	1500	1500	0
7/8/2024 14:24	65903	SAKR_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/8/2024 14:25	43304	WATS_T2	4	10	6	0.63	0.63	0	-0.66	-0.62	1	1	0	600	600	0
7/8/2024 14:26	43304	WATS_T2	4	10	6	0.63	0.63	0	-0.66	-0.62	1	1	0	600	600	0
7/8/2024 14:26	59202	THOM_T1	6	10	4	1	0.4	-0.6	0	0	0	0	0	0	0	0
7/8/2024 14:26	67602	WARW_T2	0	2	2	0	0	0	0.51	0.67	2	2	0	1500	1500	0
7/8/2024 14:27	45602	WOOL_T1	0	1	1	0	0	0	0.81	0.84	0	0	0	0	0	0
7/8/2024 14:27	43304	WATS_T2	4	10	6	0.63	0.63	0	-0.66	-0.62	1	1	0	600	600	0
7/8/2024 14:28	45802	HEGI_T2	216	159	-57	1.32	0.84	-0.48	0.81	0.8	2	2	0	1200	1200	0
7/8/2024 14:28	46001	BERW_T1	1	2	1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
7/8/2024 14:28	46005	BERW_T1	1	0	-1	0.6	0	-0.6	-2.19	-2.22	3	3	0	3000	3000	0
7/8/2024 14:28	45801	HEGI_T1	2	7	5	0.4	0	-0.4	0.28	0.3	1	1	0	900	900	0
7/8/2024 14:29	63501	HEID_TBK1-2	0	1	1	0	0	0	0.67	0.66	1	1	0	900	900	0
7/8/2024 14:29	41302	FISH_T2	19	19	0	5.01	3.51	-1.5	0	0	0	0	0	0	0	0
7/8/2024 14:29	41304	FISH_T2	5	15	10	0.4	0.42	0.02	0.12	0.09	0	0	0	0	0	0
7/8/2024 14:30	41304	FISH_T2	14	13	-1	0.45	0.3	-0.15	0.12	0.09	0	0	0	0	0	0
7/8/2024 14:30	41302	FISH_T2	19	19	0	4.4	3.49	-0.91	0	0	0	0	0	0	0	0
7/8/2024 14:31	64204	KINZ_T1	256	461	205	0.56	0.59	0.03	0	0	0	0	0	0	0	0
7/8/2024 14:31	64202	KINZ_T1	77	89	12	1.72	1.74	0.02	0	0	0	0	0	0	0	0
7/8/2024 14:31	64201	KINZ_T1	479	663	184	1.72	1.73	0.01	0	0	0	0	0	0	0	0
7/8/2024 14:31	64203	KINZ_T1	362	648	286	0.77	0.74	-0.03	0.84	0.81	3	3	0	2100	2100	0
7/8/2024 14:31	47101	MARL_T1	218	133	-85	1.01	0.91	-0.1	-0.21	-1.06	1	1	0	600	600	0
7/8/2024 14:31	47104	MARL_T1	34	23	-11	0.57	0.29	-0.28	0	0	0	0	0	0	0	0
7/8/2024 14:32	64204	KINZ_T1	256	461	205	0.56	0.59	0.03	0	0	0	0	0	0	0	0
7/8/2024 14:32	63501	HEID_TBK1-2	1	0	-1	0.1	0	-0.1	1.34	1.32	2	2	0	1800	1800	0
7/8/2024 14:32	64203	KINZ_T1	362	648	286	0.77	0.74	-0.03	0.84	0.81	3	3	0	2100	2100	0
7/8/2024 14:32	64201	KINZ_T1	479	663	184	1.72	1.73	0.01	0	0	0	0	0	0	0	0
7/8/2024 14:32	64202	KINZ_T1	77	89	12	1.72	1.74	0.02	0	0	0	0	0	0	0	0
7/8/2024 14:32	47101	MARL_T1	218	133	-85	1.01	0.91	-0.1	-0.42	-2.12	2	2	0	1200	1200	0
7/8/2024 14:32	47104	MARL_T1	34	23	-11	0.57	0.29	-0.28	0	0	0	0	0	0	0	0
7/8/2024 14:33	63501	HEID_TBK1-2	1	0	-1	0.1	0	-0.1	0.67	0.66	1	1	0	900	900	0
7/8/2024 14:33	45802	HEGI_T2	159	230	71	0.89	0.87	-0.02	0.81	0.8	2	2	0	1200	1200	0
7/8/2024 14:34	52003	LING_T1	2	2	0	1.85	0.9	-0.95	0	0	0	0	0	0	0	0
7/8/2024 14:34	52001	LING_T1	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
7/8/2024 14:34	47101	MARL_T1	218	133	-85	1.01	0.91	-0.1	-0.21	-1.06	1	1	0	600	600	0
7/8/2024 14:34	41902	REED_T1	135	78	-57	0.56	0.51	-0.05	0.79	0.78	1	1	0	900	900	0
7/8/2024 14:34	47104	MARL_T1	34	23	-11	0.57	0.29	-0.28	0	0	0	0	0	0	0	0
7/8/2024 14:34	41901	REED_T1	4	3	-1	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/8/2024 14:34	41903	REED_T1	9	7	-2	0.98	1	0.02	0	0	0	0	0	0	0	0
7/8/2024 14:35	47104	MARL_T1	34	23	-11	0.57	0.29	-0.28	0	0	0	0	0	0	0	0
7/8/2024 14:35	41901	REED_T1	4	3	-1	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/8/2024 14:35	47101	MARL_T1	218	133	-85	1.01	0.91	-0.1	-0.21	-1.06	1	1	0	600	600	0
7/8/2024 14:35	41902	REED_T1	135	78	-57	0.56	0.51	-0.05	0.79	0.78	1	1	0	900	900	0
7/8/2024 14:35	41903	REED_T1	9	7	-2	0.98	1	0.02	0	0	0	0	0	0	0	0
7/8/2024 14:36	47101	MARL_T1	218	133	-85	1.01	0.91	-0.1	-0.21	-1.06	1	1	0	600	600	0
7/8/2024 14:36	40602	PIGR_T1	5	21	16	0.54	0.49	-0.05	0	0	0	0	0	0	0	0
7/8/2024 14:36	40603	PIGR_T1	54	83	29	1.23	1.38	0.15	0.91	0.89	0	0	0	0	0	0
7/8/2024 14:36	47104	MARL_T1	34	23	-11	0.57	0.29	-0.28	0	0	0	0	0	0	0	0
7/8/2024 14:36	40601	PIGR_T1	15	16	1	0.67	0.61	-0.06	0	0	0	0	0	0	0	0
7/8/2024 14:38	42701	AUGU_T1	79	80	1	1.67	1.6	-0.07	0	0	2	2	0	1800	1800	0
7/8/2024 14:41	15001	BLMO_T1	2	13	11	0.55	0.48	-0.07	0	0	0	0	0	0	0	0
7/8/2024 14:42	60801	BUCK_T1	0	0	0	0	0	0	-0.82	-0.18	0	0	0	0	0	0
7/8/2024 14:42	51604	DUKE_T2	0	1	1	0	0.2	0.2	-1.64	-1.6	1	1	0	900	900	0
7/8/2024 14:42	60803	BUCK_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/8/2024 14:45	41304	FISH_T2	13	2	-11	0.51	0.3	-0.21	0.09	0.14	0	0	0	0	0	0
7/8/2024 14:45	41302	FISH_T2	19	18	-1	3.52	3.54	0.02	0	0	0	0	0	0	0	0
7/8/2024 14:45	45801	HEGI_T1	5	1	-4	0.26	0	-0.26	0.3	0.26	1	1	0	900	900	0
7/8/2024 14:46	41302	FISH_T2	19	18	-1	3.52	3.54	0.02	0	0	0	0	0	0	0	0
7/8/2024 14:46	41304	FISH_T2	13	2	-11	0.51	0.3	-0.21	0.09	0.14	0	0	0	0	0	0
7/8/2024 14:48	41602	CLEV_T1	100	85	-15	1.34	1.78	0.44	0	0	1	1	0	600	600	0
7/8/2024 14:48	55001	NEWP_T1	74	71	-3	1.13	1.08	-0.05	0.04	0.08	0	0	0	0	0	0
7/8/2024 14:49	55001	NEWP_T1	74	71	-3	1.13	1.08	-0.05	0.04	0.08	0	0	0	0	0	0
7/8/2024 14:50	16402	MOPO_T1	1	4	3	1.2	0.5	-0.7	0	0	0	0	0	0	0	0
7/8/2024 14:50	16406	MOPO_T1	0	0	0	0	0	0	0.29	0.26	1	1	0	1200	1200	0
7/8/2024 14:53	46301	ROHR_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/8/2024 14:53	46302	ROHR_T1	6	8	2	0.98	1.03	0.05	0.51	0.53	0	0	0	0	0	0
7/8/2024 14:53	43304	WATS_T2	9	6	-3	0.58	0.68	0.1	-1.22	-1.29	2	2	0	1200	1200	0
7/8/2024 14:53	43301	WATS_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/8/2024 14:54	60201	ATGL_T2	0	0	0	0	0	0	-0.05	-0.01	2	2	0	900	900	0
7/8/2024 14:54	43304	WATS_T2	9	6	-3	0.58	0.68	0.1	-0.61	-0.65	1	1	0	600	600	0
7/8/2024 14:54	43301	WATS_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/8/2024 14:58	49804	UNIV_T1	2	6	4	1.2	0.95	-0.25	0	0	0	0	0	0	0	0
7/8/2024 14:58	49803	UNIV_T1	0	3	3	0	0.2	0.2	-1.26	-1.39	0	0	0	0	0	0
7/8/2024 15:00	45802	HEGI_T2	230	141	-89	1.63	0.7	-0.93	0.96	0.85	2	2	0	1200	1200	0
7/8/2024 15:01	47104	MARL_T1	23	28	5	1.27	0.7	-0.57	0	0	0	0	0	0	0	0
7/8/2024 15:01	64302	LINC_T2	57	15	-42	0.55	0.66	0.11	1.16	1.18	0	0	0	0	0	0
7/8/2024 15:01	47101	MARL_T1	131	131	0	0.92	0.96	0.04	-1.02	-1.04	1	1	0	600	600	0
7/8/2024 15:03	10602	BLGL_T2	124	247	123	0.69	0.78	0.09	1.07	1.49	0	0	0	0	0	0
7/8/2024 15:04	47401	PENS_T1	17	34	17	1.04	0.85	-0.19	0.79	0.73	0	0	0	0	0	0
7/8/2024 15:04	47402	PENS_T1	5	2	-3	1.3	0	-1.3	0	0	0	0	0	0	0	0
7/8/2024 15:04	47403	PENS_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/8/2024 15:05	41903	REED_T1	4	4	0	1	1.48	0.48	0	0	0	0	0	0	0	0
7/8/2024 15:05	41902	REED_T1	21	13	-8	0.58	0.88	0.3	-0.01	-0.16	1	1	0	900	900	0
7/8/2024 15:05	41901	REED_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/8/2024 15:06	47402	PENS_T1	5	2	-3	1.3	0	-1.3	0	0	0	0	0	0	0	0
7/8/2024 15:06	47401	PENS_T1	17	34	17	1.04	0.85	-0.19	0.73	0.72	0	0	0	0	0	0
7/8/2024 15:06	57401	SPAN_T1	8	20	12	0.61	0.33	-0.28	-1.19	-1.13	2	2	0	1500	1500	0
7/8/2024 15:06	47403	PENS_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/8/2024 15:06	57403	SPAN_T1	3	2	-1	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
7/8/2024 15:07	57403	SPAN_T1	3	2	-1	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
7/8/2024 15:07	57401	SPAN_T1	8	20	12	0.61	0.33	-0.28	-3.39	-3.27	6	6	0	4500	4500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/8/2024 15:08	57401	SPAN_T1	8	20	12	0.61	0.33	-0.28	-2.26	-2.18	4	4	0	3000	3000	0
7/8/2024 15:08	57403	SPAN_T1	3	2	-1	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
7/8/2024 15:09	21202	ECAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 15:09	57403	SPAN_T1	3	2	-1	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
7/8/2024 15:09	21206	ECAR_T2	62	34	-28	1.01	0.97	-0.04	0.71	0.5	0	0	0	0	0	0
7/8/2024 15:09	21204	ECAR_T2	5	1	-4	0.43	0	-0.43	0	0	0	0	0	0	0	0
7/8/2024 15:09	57401	SPAN_T1	8	20	12	0.61	0.33	-0.28	-1.13	-1.09	2	2	0	1500	1500	0
7/8/2024 15:10	56801	BENV_T1	3	9	6	0.57	0.77	0.2	-0.11	0.17	2	1	-1	1200	600	-600
7/8/2024 15:10	56803	BENV_T1	13	8	-5	0.7	0.94	0.24	0	0	0	0	0	0	0	0
7/8/2024 15:11	56801	BENV_T1	3	9	6	0.57	0.77	0.2	-0.11	0.17	2	1	-1	1200	600	-600
7/8/2024 15:11	57401	SPAN_T1	8	20	12	0.61	0.33	-0.28	-1.13	-1.09	2	2	0	1500	1500	0
7/8/2024 15:11	56803	BENV_T1	13	8	-5	0.7	0.94	0.24	0	0	0	0	0	0	0	0
7/8/2024 15:11	57403	SPAN_T1	3	2	-1	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
7/8/2024 15:12	56803	BENV_T1	13	8	-5	0.7	0.94	0.24	0	0	0	0	0	0	0	0
7/8/2024 15:12	56801	BENV_T1	3	9	6	0.57	0.77	0.2	-0.32	0.52	6	3	-3	3600	1800	-1800
7/8/2024 15:12	46203	DANV_T2	1	4	3	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/8/2024 15:12	20603	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/8/2024 15:12	20601	GRWO_T2	181	136	-45	1.19	0.7	-0.49	0.06	-0.08	1	1	0	1200	1200	0
7/8/2024 15:12	46204	DANV_T2	111	46	-65	0.51	0.45	-0.06	0	0	0	0	0	0	0	0
7/8/2024 15:12	46206	DANV_T2	104	90	-14	1.25	0.99	-0.26	3.7	3.76	4	4	0	4200	4200	0
7/8/2024 15:13	56801	BENV_T1	3	9	6	0.57	0.77	0.2	-0.21	0.35	4	2	-2	2400	1200	-1200
7/8/2024 15:13	56803	BENV_T1	13	8	-5	0.7	0.94	0.24	0	0	0	0	0	0	0	0
7/8/2024 15:14	56803	BENV_T1	13	8	-5	0.7	0.94	0.24	0	0	0	0	0	0	0	0
7/8/2024 15:14	56801	BENV_T1	3	9	6	0.57	0.77	0.2	-0.43	0.7	8	4	-4	4800	2400	-2400
7/8/2024 15:14	14802	TREI_T2	6	1	-5	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/8/2024 15:14	14801	TREI_T2	332	254	-78	3.25	3.45	0.2	0	0	0	0	0	0	0	0
7/8/2024 15:15	56803	BENV_T1	5	11	6	0.94	1.27	0.33	0	0	0	0	0	0	0	0
7/8/2024 15:15	56801	BENV_T1	3	9	6	0.77	0.48	-0.29	-0.11	0.17	2	1	-1	1200	600	-600
7/8/2024 15:16	56801	BENV_T1	3	9	6	0.77	0.48	-0.29	-0.11	0.17	2	1	-1	1200	600	-600
7/8/2024 15:16	56803	BENV_T1	5	11	6	0.94	1.27	0.33	0	0	0	0	0	0	0	0
7/8/2024 15:22	64201	KINZ_T1	737	810	73	1.94	1.84	-0.1	0	0	0	0	0	0	0	0
7/8/2024 15:22	64202	KINZ_T1	98	100	2	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
7/8/2024 15:22	64204	KINZ_T1	609	628	19	0.97	0.6	-0.37	0	0	0	0	0	0	0	0
7/8/2024 15:22	64203	KINZ_T1	775	939	164	0.82	0.81	-0.01	0.89	0.87	3	3	0	2100	2100	0
7/8/2024 15:28	64203	KINZ_T1	775	939	164	0.82	0.81	-0.01	0.89	0.87	3	3	0	2100	2100	0
7/8/2024 15:28	64204	KINZ_T1	609	628	19	0.97	0.6	-0.37	0	0	0	0	0	0	0	0
7/8/2024 15:28	40101	HUNT_T2	202	225	23	0.76	0.62	-0.14	-1.07	-1.07	0	0	0	0	0	0
7/8/2024 15:28	64201	KINZ_T1	737	810	73	1.94	1.84	-0.1	0	0	0	0	0	0	0	0
7/8/2024 15:28	64202	KINZ_T1	98	100	2	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
7/8/2024 15:31	47403	PENS_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
7/8/2024 15:31	47401	PENS_T1	14	36	22	0.85	0.91	0.06	0.72	0.64	0	0	0	0	0	0
7/8/2024 15:31	47402	PENS_T1	0	5	5	0	0.95	0.95	0	0	0	0	0	0	0	0
7/8/2024 15:31	42201	SHEN_T2	0	0	0	0	0	0	0.14	0.13	1	1	0	600	600	0
7/8/2024 15:32	40101	HUNT_T2	206	290	84	0.66	0.61	-0.05	-1.07	-1.07	0	0	0	0	0	0
7/8/2024 15:32	64204	KINZ_T1	628	407	-221	0.97	0.49	-0.48	0	0	0	0	0	0	0	0
7/8/2024 15:32	64202	KINZ_T1	100	92	-8	1.92	1.77	-0.15	0	0	0	0	0	0	0	0
7/8/2024 15:32	64203	KINZ_T1	938	583	-355	0.85	0.75	-0.1	0.89	0.87	3	3	0	2100	2100	0
7/8/2024 15:32	64201	KINZ_T1	809	547	-262	1.81	1.39	-0.42	0	0	0	0	0	0	0	0
7/8/2024 15:41	56803	BENV_T1	8	11	3	1.33	1.15	-0.18	0	0	0	0	0	0	0	0
7/8/2024 15:41	56801	BENV_T1	6	12	6	0.58	0.43	-0.15	0.42	0.48	2	2	0	1200	1200	0
7/8/2024 15:42	56803	BENV_T1	8	11	3	1.33	1.15	-0.18	0	0	0	0	0	0	0	0
7/8/2024 15:42	56801	BENV_T1	6	12	6	0.58	0.43	-0.15	0.21	0.24	1	1	0	600	600	0
7/8/2024 15:42	20601	GRWO_T2	73	206	133	0.7	0.81	0.11	0	0	0	0	0	0	0	0
7/8/2024 15:42	20603	GRWO_T2	1	0	-1	0.1	0	-0.1	-1.43	-1.45	2	2	0	2100	2100	0
7/8/2024 15:43	67602	WARW_T2	0	4	4	0	0	0	0.69	0.71	2	2	0	1500	1500	0
7/8/2024 15:43	56801	BENV_T1	6	12	6	0.58	0.43	-0.15	0.42	0.48	2	2	0	1200	1200	0
7/8/2024 15:43	56803	BENV_T1	8	11	3	1.33	1.15	-0.18	0	0	0	0	0	0	0	0
7/8/2024 15:44	67602	WARW_T2	0	4	4	0	0	0	1.38	1.42	4	4	0	3000	3000	0
7/8/2024 15:47	63403	HONY_T2	101	163	62	0.43	0.38	-0.05	-1.08	-1.25	1	1	0	600	600	0
7/8/2024 15:48	12304	LANA_T2	250	278	28	1.34	1.39	0.05	0	0	0	0	0	0	0	0
7/8/2024 15:48	12305	LANA_T2	17	22	5	1.04	1.59	0.55	0	0	0	0	0	0	0	0
7/8/2024 15:48	12301	LANA_T2	3	5	2	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/8/2024 15:48	12302	LANA_T2	15	35	20	0.37	0.36	-0.01	-1.23	-1.21	3	3	0	2700	2700	0
7/8/2024 15:51	51004	NHAR_T1	8	13	5	1.15	1.52	0.37	-0.93	-0.92	0	0	0	0	0	0
7/8/2024 15:52	45801	HEGI_T1	1	0	-1	0.1	0	-0.1	0.23	0.07	1	1	0	900	900	0
7/8/2024 15:52	51004	NHAR_T1	8	13	5	1.15	1.52	0.37	-0.92	-0.9	0	0	0	0	0	0
7/8/2024 15:53	67503	WEWI_T2	113	134	21	0.81	0.78	-0.03	0	0	0	0	0	0	0	0
7/8/2024 15:53	67502	WEWI_T2	71	102	31	0.72	0.66	-0.06	-0.3	-0.32	1	1	0	900	900	0
7/8/2024 15:55	14403	SSLA_T1	9	6	-3	1.06	1.02	-0.04	1.44	1.42	1	1	0	600	600	0
7/8/2024 15:55	14402	SSLA_T1	1	5	4	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/8/2024 15:55	14404	SSLA_T1	30	30	0	1.23	1.18	-0.05	0	0	0	0	0	0	0	0
7/8/2024 15:55	14401	SSLA_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/8/2024 15:59	11502	FREE_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/8/2024 15:59	11504	FREE_T1	27	28	1	1.03	0.51	-0.52	-1.12	-1.12	2	2	0	2100	2100	0
7/8/2024 15:59	11505	FREE_T1	11	15	4	0.86	0.53	-0.33	0	0	0	0	0	0	0	0
7/8/2024 16:06	67703	WERN_T2	11	25	14	0.34	0.45	0.11	-0.01	-0.01	1	1	0	900	900	0
7/8/2024 16:09	56501	ROCK_T2	4	10	6	0.58	0.78	0.2	-1.76	-1.75	0	0	0	0	0	0
7/8/2024 16:09	56504	ROCK_T2	27	49	22	0.59	0.72	0.13	0	0	0	0	0	0	0	0
7/8/2024 16:09	56503	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/8/2024 16:10	56504	ROCK_T2	27	49	22	0.59	0.72	0.13	0	0	0	0	0	0	0	0
7/8/2024 16:10	56503	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/8/2024 16:10	56501	ROCK_T2	4	10	6	0.58	0.78	0.2	-1.76	-1.75	0	0	0	0	0	0
7/8/2024 16:20	64101	REFR_T1	18	36	18	1.19	0.92	-0.27	-0.24	-0.2	0	0	0	0	0	0
7/8/2024 16:21	45303	WBER_T2	0	0	0	0	0	0	-0.23	-0.5	0	0	0	0	0	0
7/8/2024 16:21	45302	WBER_T2	25	40	15	0.7	0.87	0.17	0	0	0	0	0	0	0	0
7/8/2024 16:24	66505	SMAN_T2	3	5	2	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
7/8/2024 16:24	66503	SMAN_T2	36	49	13	0.9	1.03	0.13	1.41	1.51	0	0	0	0	0	0
7/8/2024 16:24	66504	SMAN_T2	17	18	1	0.84	0.49	-0.35	0	0	0	0	0	0	0	0
7/8/2024 16:31	63401	HONY_T1	0	0	0	0	0	0	0.13	0.03	1	1	0	600	600	0
7/8/2024 16:32	63401	HONY_T1	0	0	0	0	0	0	0.26	0.06	2	2	0	1200	1200	0
7/8/2024 16:33	63401	HONY_T1	0	0	0	0	0	0	0.13	0.03	1	1	0	600	600	0
7/8/2024 16:43	46101	MACI_T2	0	0	0	0	0	0	-1.09	-1.28	2	2	0	2400	2400	0
7/8/2024 16:46	61505	EPET_T1	0	0	0	0	0	0	1.08	1.11	0	0	0	0	0	0
7/8/2024 16:47	47101	MARL_T1	263	357	94	1.07	1.01	-0.06	-0.92	-0.96	1	1	0	600	600	0
7/8/2024 16:47	47104	MARL_T1	27	41	14	1.2	0.93	-0.27	0	0	0	0	0	0	0	0
7/8/2024 16:49	56803	BENV_T1	24	26	2	1.13	0.94	-0.19	0	0	0	0	0	0	0	0
7/8/2024 16:49	56801	BENV_T1	6	26	20	0.75	0.43	-0.32	-0.25	-0.26	2	2	0	1200	1200	0
7/8/2024 16:56	20403	ASHF_T2	99	182	83	0.65	0.79	0.14	0.35	0.32	0	0	0	0	0	0
7/8/2024 16:56	66504	SMAN_T2	15	18	3	0.52	0.75	0.23	0.43	0.39	0	0	0	0	0	0
7/8/2024 16:56	20402	ASHF_T2	104	203	99	0.71	0.71	0	0	0	0	0	0	0	0	0
7/8/2024 16:56	20401	ASHF_T2	15	36	21	0.77	0.8	0.03	0	0	0	0	0	0	0	0
7/8/2024 16:56	66503	SMAN_T2	44	45	1	0.98	1	0.02	0	0	0	0	0	0	0	0
7/8/2024 16:56	66505	SMAN_T2	3	1	-2	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/8/2024 17:05	61505	EPET_T1	0	0	0	0	0	0	1.11	1.17	0	0	0	0	0	0
7/8/2024 17:09	57404	SPAN_T2	8	11	3	0.24	0.23	-0.01	-0.99	-1.01	1	1	0	1200	1200	0
7/8/2024 17:13	63401	HONY_T1	0	0	0	0	0	0	-0.03	-0.02	1	1	0	600	600	0
7/8/2024 17:13	63404	HONY_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/8/2024 17:14	63404	HONY_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/8/2024 17:14	63401	HONY_T1	0	0	0	0	0	0	-0.03	-0.02	1	1	0	600	600	0
7/8/2024 17:15	63401	HONY_T1	0	0	0	0	0	0	-0.03	-0.02	1	1	0	600	600	0
7/8/2024 17:15	63404	HONY_T1	1	1	0	0.7	1.4	0.7	0	0	0	0	0	0	0	0
7/8/2024 17:16	20601	GRWO_T2	383	373	-10	1.68	1.66	-0.02	0.87	0.86	0	0	0	0	0	0
7/8/2024 17:16	20603	GRWO_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/8/2024 17:20	67703	WERN_T2	115	148	33	0.56	0.59	0.03	-0.01	-0.01	1	1	0	900	900	0
7/8/2024 17:21	12302	LANA_T2	72	122	50	0.45	0.49	0.04	0	0	0	0	0	0	0	0
7/8/2024 17:21	12305	LANA_T2	26	32	6	0.92	0.93	0.01	0	0	0	0	0	0	0	0
7/8/2024 17:21	12301	LANA_T2	16	38	22	0.71	0.76	0.05	0	0	0	0	0	0	0	0
7/8/2024 17:21	12304	LANA_T2	314	338	24	1.6	1.45	-0.15	0.97	0.95	1	1	0	1200	1200	0
7/8/2024 17:22	45302	WBER_T2	38	40	2	1.08	1.13	0.05	1.72	1.73	0	0	0	0	0	0
7/8/2024 17:22	43304	WATS_T2	60	126	66	0.53	0.72	0.19	-0.63	-0.7	1	1	0	600	600	0
7/8/2024 17:22	45301	WBER_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/8/2024 17:22	15604	NSTR_T1	3	1	-2	1.27	0.6	-0.67	-0.18	-0.17	0	0	0	0	0	0
7/8/2024 17:22	43301	WATS_T2	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/8/2024 17:23	43304	WATS_T2	60	126	66	0.53	0.72	0.19	-0.63	-0.7	1	1	0	600	600	0
7/8/2024 17:23	43301	WATS_T2	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/8/2024 17:23	67703	WERN_T2	115	148	33	0.56	0.59	0.03	-0.01	-0.01	1	1	0	900	900	0
7/8/2024 17:25	45302	WBER_T2	38	40	2	1.08	1.13	0.05	1.72	1.73	0	0	0	0	0	0
7/8/2024 17:25	45301	WBER_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/8/2024 17:26	43304	WATS_T2	60	126	66	0.53	0.72	0.19	-0.63	-0.7	1	1	0	600	600	0
7/8/2024 17:26	43301	WATS_T2	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/8/2024 17:31	49804	UNIV_T1	18	18	0	0.53	0.51	-0.02	0	0	0	0	0	0	0	0
7/8/2024 17:31	49803	UNIV_T1	4	65	61	0.35	0.36	0.01	-1.5	-1.5	0	0	0	0	0	0
7/8/2024 17:35	40602	PIGR_T1	70	105	35	0.71	0.57	-0.14	-0.9	-1.02	2	2	0	1200	1200	0
7/8/2024 17:35	40601	PIGR_T1	16	20	4	0.58	0.54	-0.04	0	0	0	0	0	0	0	0
7/8/2024 17:35	40603	PIGR_T1	81	82	1	2.44	1.9	-0.54	0	0	0	0	0	0	0	0
7/8/2024 17:37	55003	NEWP_T2	0	1	1	0	0	0	-0.61	-0.61	1	1	0	600	600	0
7/8/2024 17:37	40601	PIGR_T1	16	20	4	0.58	0.54	-0.04	0	0	0	0	0	0	0	0
7/8/2024 17:37	40602	PIGR_T1	70	105	35	0.71	0.57	-0.14	0	0	0	0	0	0	0	0
7/8/2024 17:37	40603	PIGR_T1	81	82	1	2.44	1.9	-0.54	0	0	0	0	0	0	0	0
7/8/2024 17:38	40603	PIGR_T1	81	82	1	2.44	1.9	-0.54	0	0	0	0	0	0	0	0
7/8/2024 17:38	40602	PIGR_T1	70	105	35	0.71	0.57	-0.14	-0.51	-0.48	1	1	0	600	600	0
7/8/2024 17:38	40601	PIGR_T1	16	20	4	0.58	0.54	-0.04	0	0	0	0	0	0	0	0
7/8/2024 17:39	46001	BERW_T1	17	18	1	0.39	0.47	0.08	1.77	1.74	0	0	0	0	0	0
7/8/2024 17:41	46001	BERW_T1	17	18	1	0.39	0.47	0.08	1.77	1.74	0	0	0	0	0	0
7/8/2024 17:41	40602	PIGR_T1	70	105	35	0.71	0.57	-0.14	-0.51	-0.48	1	1	0	600	600	0
7/8/2024 17:41	40601	PIGR_T1	16	20	4	0.58	0.54	-0.04	0	0	0	0	0	0	0	0
7/8/2024 17:41	40603	PIGR_T1	81	82	1	2.44	1.9	-0.54	0	0	0	0	0	0	0	0
7/8/2024 17:42	11001	EGRE_T1	0	1	1	0	0	0	0.44	0.41	1	1	0	1200	1200	0
7/8/2024 17:45	62104	ELAN_T1	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
7/8/2024 17:45	62102	ELAN_T1	0	0	0	0	0	0	0.28	0.33	0	0	0	0	0	0
7/8/2024 17:49	66901	SHIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 17:49	66903	SHIL_T2	1	1	0	0.2	0.1	-0.1	-1.53	-1.55	1	1	0	900	900	0
7/8/2024 17:49	66902	SHIL_T2	8	14	6	0.21	0.33	0.12	0	0	0	0	0	0	0	0
7/8/2024 17:51	66902	SHIL_T2	8	14	6	0.21	0.33	0.12	0	0	0	0	0	0	0	0
7/8/2024 17:51	66903	SHIL_T2	1	1	0	0.2	0.1	-0.1	-1.55	-1.61	1	1	0	900	900	0
7/8/2024 17:51	66901	SHIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 17:54	66503	SMAN_T2	62	29	-33	0.91	0.81	-0.1	0	0	0	0	0	0	0	0
7/8/2024 17:54	66504	SMAN_T2	28	17	-11	0.78	0.64	-0.14	0.54	0.41	0	0	0	0	0	0
7/8/2024 17:54	66505	SMAN_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
7/8/2024 18:01	64202	KINZ_T1	43	18	-25	0.73	0.42	-0.31	0	0	0	0	0	0	0	0
7/8/2024 18:01	64204	KINZ_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/8/2024 18:01	64203	KINZ_T1	1	1	0	1	0	-1	-1.08	-1.17	3	3	0	2100	2100	0
7/8/2024 18:01	64201	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/8/2024 18:05	55001	NEWP_T1	59	48	-11	0.6	0.43	-0.17	0.02	0.03	0	0	0	0	0	0
7/8/2024 18:05	55002	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/8/2024 18:06	57702	PAXT_T1	9	4	-5	0.36	0.17	-0.19	-0.17	-0.18	0	0	0	0	0	0
7/8/2024 18:06	48302	ORWI_T2	198	177	-21	1.18	0.85	-0.33	0.22	0.21	0	0	0	0	0	0
7/8/2024 18:07	57403	SPAN_T1	2	1	-1	0.3	0	-0.3	0.02	-0.04	0	0	0	0	0	0
7/8/2024 18:07	57401	SPAN_T1	8	5	-3	0.59	0.48	-0.11	0	0	0	0	0	0	0	0
7/8/2024 18:09	57403	SPAN_T1	2	1	-1	0.3	0	-0.3	0.03	-0.09	0	0	0	0	0	0
7/8/2024 18:09	57401	SPAN_T1	8	5	-3	0.59	0.48	-0.11	0	0	0	0	0	0	0	0
7/8/2024 18:11	11405	FARM_T1	120	113	-7	1.03	0.9	-0.13	-0.18	-0.17	1	1	0	1200	1200	0
7/8/2024 18:11	11402	FARM_T1	28	28	0	0.77	0.83	0.06	0	0	0	0	0	0	0	0
7/8/2024 18:11	11406	FARM_T1	20	17	-3	0.91	0.91	0	0	0	0	0	0	0	0	0
7/8/2024 18:12	63304	GREE_T1	0	0	0	0	0	0	-2.84	-2.73	1	1	0	1200	1200	0
7/8/2024 18:16	57101	SPHI_T2	6	6	0	0.4	0.32	-0.08	0	0	0	0	0	0	0	0
7/8/2024 18:16	57103	SPHI_T2	0	0	0	0	0	0	-0.58	-0.61	1	1	0	600	600	0
7/8/2024 18:16	57106	SPHI_T2	3	3	0	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
7/8/2024 18:17	63304	GREE_T1	0	0	0	0	0	0	-2.84	-2.73	1	1	0	1200	1200	0
7/8/2024 18:19	52501	PROG_T1	5	1	-4	0.22	0.1	-0.12	-0.23	-0.26	1	1	0	300	300	0
7/8/2024 18:19	52504	PROG_T1	9	0	-9	0.28	0	-0.28	0	0	0	0	0	0	0	0
7/8/2024 18:22	64204	KINZ_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/8/2024 18:22	64203	KINZ_T1	1	0	-1	0.1	0	-0.1	-1.07	-1.13	3	3	0	2100	2100	0
7/8/2024 18:22	64202	KINZ_T1	18	8	-10	0.29	0.32	0.03	0	0	0	0	0	0	0	0
7/8/2024 18:23	64202	KINZ_T1	18	8	-10	0.29	0.32	0.03	0	0	0	0	0	0	0	0
7/8/2024 18:23	64203	KINZ_T1	1	0	-1	0.1	0	-0.1	-1.07	-1.13	3	3	0	2100	2100	0
7/8/2024 18:23	64204	KINZ_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/8/2024 18:24	52504	PROG_T1	9	0	-9	0.28	0	-0.28	0	0	0	0	0	0	0	0
7/8/2024 18:24	43304	WATS_T2	43	40	-3	0.82	0.72	-0.1	-0.71	-0.79	1	1	0	600	600	0
7/8/2024 18:24	52501	PROG_T1	5	1	-4	0.22	0.1	-0.12	-0.26	-0.35	1	1	0	300	300	0
7/8/2024 18:27	67605	WARW_T1	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
7/8/2024 18:38	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 18:39	41901	REED_T1	12	10	-2	0.4	0.48	0.08	0	0	0	0	0	0	0	0
7/8/2024 18:39	12301	LANA_T2	18	23	5	0.91	0.7	-0.21	0	0	0	0	0	0	0	0
7/8/2024 18:39	12302	LANA_T2	27	18	-9	0.45	0.24	-0.21	0	0	0	0	0	0	0	0
7/8/2024 18:39	12305	LANA_T2	11	10	-1	1.22	0.98	-0.24	0	0	0	0	0	0	0	0
7/8/2024 18:39	41903	REED_T1	0	0	0	0	0	0	0.66	0.83	1	1	0	1200	1200	0
7/8/2024 18:39	12304	LANA_T2	222	206	-16	1.23	1.09	-0.14	0.87	0.76	1	1	0	1200	1200	0
7/8/2024 18:39	41902	REED_T1	13	15	2	0.62	0.8	0.18	0	0	0	0	0	0	0	0
7/8/2024 18:39	59202	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 18:42	14605	SWHI_T1	15	16	1	0.65	0.51	-0.14	0	0	0	0	0	0	0	0
7/8/2024 18:42	14603	SWHI_T1	3	3	0	0.27	0.9	0.63	-0.01	-0.01	2	2	0	1200	1200	0
7/8/2024 18:47	13501	MCMI_T1	0	0	0	0	0	0	0.82	0.8	0	0	0	0	0	0
7/8/2024 18:48	12601	MACA_T1	18	19	1	1.15	1.49	0.34	1.9	1.87	0	0	0	0	0	0
7/8/2024 18:48	12602	MACA_T1	27	33	6	1.58	1.91	0.33	0	0	0	0	0	0	0	0
7/8/2024 18:48	12606	MACA_T1	90	102	12	2.08	2.39	0.31	0	0	0	0	0	0	0	0
7/8/2024 18:49	40603	PIGR_T1	67	67	0	1.55	1.44	-0.11	0	0	0	0	0	0	0	0
7/8/2024 18:49	12002	HATF_T1	1	0	-1	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
7/8/2024 18:49	12003	HATF_T1	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/8/2024 18:49	40602	PIGR_T1	21	15	-6	0.44	0.75	0.31	-0.58	-0.65	1	1	0	600	600	0
7/8/2024 18:49	40601	PIGR_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/8/2024 18:49	12001	HATF_T1	3	6	3	0.47	0.47	0	-0.04	-0.06	4	4	0	3600	3600	0
7/8/2024 18:52	12001	HATF_T1	3	6	3	0.47	0.47	0	-0.03	-0.01	2	2	0	1800	1800	0
7/8/2024 18:52	12003	HATF_T1	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/8/2024 18:52	12002	HATF_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
7/8/2024 18:55	59101	WALK_T2	0	0	0	0	0	0	0.62	0.45	3	3	0	1800	1800	0
7/8/2024 18:56	15104	UPHA_T2	20	16	-4	1.63	0.7	-0.93	0	0	0	0	0	0	0	0
7/8/2024 18:56	15103	UPHA_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
7/8/2024 18:57	66902	SHIL_T2	2	1	-1	0.4	0	-0.4	-1.22	-1.25	0	0	0	0	0	0
7/8/2024 19:16	64701	LITI_T1	15	25	10	2.43	2.29	-0.14	0.23	0.23	1	1	0	900	900	0
7/8/2024 19:18	48902	FOSP_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
7/8/2024 19:21	67204	TEHI_T2	7	6	-1	0.46	0.13	-0.33	0	0	0	0	0	0	0	0
7/8/2024 19:21	67202	TEHI_T2	0	0	0	0	0	0	0.07	0.11	2	2	0	1200	1200	0
7/8/2024 19:21	44903	SCOT_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/8/2024 19:21	44905	SCOT_T1	14	12	-2	0.61	0.88	0.27	0	0	0	0	0	0	0	0
7/8/2024 19:22	67204	TEHI_T2	7	6	-1	0.46	0.13	-0.33	0	0	0	0	0	0	0	0
7/8/2024 19:22	44902	SCOT_T2	1	0	-1	4.3	0	-4.3	-0.23	-0.24	0	0	0	0	0	0
7/8/2024 19:22	67202	TEHI_T2	0	0	0	0	0	0	0.07	0.11	2	2	0	1200	1200	0
7/8/2024 19:24	67202	TEHI_T2	0	0	0	0	0	0	0.07	0.11	2	2	0	1200	1200	0
7/8/2024 19:24	67204	TEHI_T2	7	6	-1	0.46	0.13	-0.33	0	0	0	0	0	0	0	0
7/8/2024 19:38	44901	SCOT_T2	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
7/8/2024 19:38	44902	SCOT_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 19:52	59101	WALK_T2	0	0	0	0	0	0	0.63	0.44	3	3	0	1800	1800	0
7/8/2024 19:53	64203	KINZ_T1	0	0	0	0	0	0	-1.05	-1.25	3	3	0	2100	2100	0
7/8/2024 19:53	64201	KINZ_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 19:53	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
7/8/2024 19:53	64202	KINZ_T1	0	6	6	0	0.4	0.4	0	0	0	0	0	0	0	0
7/8/2024 19:54	64202	KINZ_T1	0	6	6	0	0.4	0.4	0	0	0	0	0	0	0	0
7/8/2024 19:54	64201	KINZ_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 19:54	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
7/8/2024 19:54	64203	KINZ_T1	0	0	0	0	0	0	-1.05	-1.25	3	3	0	2100	2100	0
7/8/2024 19:59	24902	WHHA_T1	18	35	17	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/8/2024 19:59	24901	WHHA_T1	0	1	1	0	0	0	0.41	0.39	0	0	0	0	0	0
7/8/2024 20:16	64201	KINZ_T1	7	0	-7	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/8/2024 20:16	64203	KINZ_T1	0	0	0	0	0	0	-1.25	-1.26	3	3	0	2100	2100	0
7/8/2024 20:16	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/8/2024 20:16	64202	KINZ_T1	5	5	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/8/2024 20:17	64203	KINZ_T1	0	0	0	0	0	0	-1.25	-1.26	3	3	0	2100	2100	0
7/8/2024 20:17	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/8/2024 20:17	64201	KINZ_T1	7	0	-7	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/8/2024 20:17	64202	KINZ_T1	5	5	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/8/2024 20:20	13503	MCMI_T2	0	0	0	0	0	0	-0.37	-0.41	0	0	0	0	0	0
7/8/2024 20:23	58401	MORO_T1	1	1	0	1.4	0.8	-0.6	-1.69	-1.73	2	2	0	1200	1200	0
7/8/2024 20:43	16302	ALPA_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
7/8/2024 20:44	16302	ALPA_T2	0	0	0	0	0	0	0.41	0.36	0	0	0	0	0	0
7/8/2024 20:45	16302	ALPA_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
7/8/2024 21:00	58401	MORO_T1	1	1	0	0.7	0	-0.7	-1.78	-1.78	2	2	0	1200	1200	0
7/8/2024 21:02	24901	WHHA_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
7/8/2024 21:02	24902	WHHA_T1	23	41	18	0.63	0.73	0.1	0	0	0	0	0	0	0	0
7/8/2024 21:10	64101	REFR_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
7/8/2024 21:17	64204	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
7/8/2024 21:17	64203	KINZ_T1	0	0	0	0	0	0	-1.32	-0.39	3	2	-1	2100	900	-1200
7/8/2024 21:17	64202	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/8/2024 21:18	64202	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/8/2024 21:18	64204	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
7/8/2024 21:18	64203	KINZ_T1	0	0	0	0	0	0	-1.32	-0.39	3	2	-1	2100	900	-1200
7/8/2024 21:23	40101	HUNT_T2	23	23	0	0.46	0.49	0.03	-1.34	-1.33	0	0	0	0	0	0
7/8/2024 21:27	55101	WERT_T1	0	0	0	0	0	0	-1.97	-2.21	4	4	0	3300	3300	0
7/8/2024 21:38	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/8/2024 21:38	52404	GRPA_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/8/2024 21:38	52403	GRPA_T2	26	19	-7	0.65	0.52	-0.13	0	0	0	0	0	0	0	0
7/8/2024 21:38	55101	WERT_T1	0	0	0	0	0	0	-2.21	-2.29	4	4	0	3300	3300	0
7/8/2024 21:38	52402	GRPA_T2	6	4	-2	0.52	0.67	0.15	-0.56	-0.61	0	0	0	0	0	0
7/8/2024 21:39	52403	GRPA_T2	26	19	-7	0.65	0.52	-0.13	0	0	0	0	0	0	0	0
7/8/2024 21:39	52402	GRPA_T2	6	4	-2	0.52	0.67	0.15	-0.56	-0.61	0	0	0	0	0	0
7/8/2024 21:39	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/8/2024 21:39	55101	WERT_T1	0	0	0	0	0	0	-2.21	-2.29	4	4	0	3300	3300	0
7/8/2024 21:39	52404	GRPA_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/8/2024 21:44	55101	WERT_T1	0	0	0	0	0	0	-2.21	-2.29	4	4	0	3300	3300	0
7/8/2024 21:45	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 21:45	55101	WERT_T1	0	0	0	0	0	0	-2.21	-2.29	4	4	0	3300	3300	0
7/8/2024 21:47	55101	WERT_T1	0	0	0	0	0	0	-2.21	-2.29	4	4	0	3300	3300	0
7/8/2024 21:47	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 21:58	64203	KINZ_T1	0	0	0	0	0	0	-0.44	0.2	2	1	-1	900	600	-300
7/8/2024 21:58	64204	KINZ_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
7/8/2024 21:58	64202	KINZ_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/8/2024 21:59	64204	KINZ_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
7/8/2024 21:59	64202	KINZ_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/8/2024 21:59	64203	KINZ_T1	0	0	0	0	0	0	-0.44	0.2	2	1	-1	900	600	-300
7/8/2024 22:06	61701	ELIZ_T1	1	1	0	4.2	3.5	-0.7	1.3	1.37	0	0	0	0	0	0
7/8/2024 22:07	60803	BUCK_T1	2	3	1	0.15	0.27	0.12	-0.21	-0.24	1	1	0	600	600	0
7/8/2024 22:19	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 22:19	64204	KINZ_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
7/8/2024 22:19	65604	QVIL_T2	0	0	0	0	0	0	0.93	0.95	0	0	0	0	0	0
7/8/2024 22:19	64203	KINZ_T1	0	0	0	0	0	0	0.2	0.11	1	1	0	600	600	0
7/8/2024 22:20	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 22:20	64204	KINZ_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
7/8/2024 22:20	64203	KINZ_T1	0	0	0	0	0	0	0.2	0.11	1	1	0	600	600	0
7/8/2024 22:21	63402	HONY_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/8/2024 22:21	63403	HONY_T2	0	0	0	0	0	0	-0.97	-0.43	0	0	0	0	0	0
7/8/2024 22:24	57403	SPAN_T1	2	0	-2	0.65	0	-0.65	0.54	0.5	0	0	0	0	0	0
7/8/2024 22:24	57401	SPAN_T1	7	9	2	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
7/8/2024 22:25	12304	LANA_T2	5	1	-4	0.52	0.3	-0.22	0.35	0.35	1	1	0	1200	1200	0
7/8/2024 22:25	65604	QVIL_T2	0	0	0	0	0	0	0.95	0.89	0	0	0	0	0	0
7/8/2024 22:26	12701	MACU_T1	0	0	0	0	0	0	-0.67	-0.71	1	1	0	1200	1200	0
7/8/2024 22:27	60201	ATGL_T2	19	24	5	0.19	0.2	0.01	-0.08	0.72	1	1	0	300	300	0
7/8/2024 22:27	67502	WEWI_T2	0	0	0	0	0	0	-0.67	-0.78	1	1	0	900	900	0
7/8/2024 22:28	61102	BERK_T5	0	0	0	0	0	0	0.44	0.35	2	2	0	1500	1500	0
7/8/2024 22:28	12302	LANA_T2	0	0	0	0	0	0	-1.74	-1.8	3	3	0	2700	2700	0
7/8/2024 22:28	12304	LANA_T2	5	1	-4	0.52	0.3	-0.22	0	0	0	0	0	0	0	0
7/8/2024 22:29	61102	BERK_T5	0	0	0	0	0	0	0.88	0.69	4	4	0	3000	3000	0
7/8/2024 22:29	65901	SAKR_T2	1	1	0	6.6	7.1	0.5	-0.64	-0.74	2	2	0	1500	1500	0
7/8/2024 22:29	61505	EPET_T1	0	0	0	0	0	0	1.41	1.42	0	0	0	0	0	0
7/8/2024 22:29	12002	HATF_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
7/8/2024 22:29	12001	HATF_T1	1	2	1	1.7	1.6	-0.1	0.36	0.59	2	2	0	1800	1800	0
7/8/2024 22:30	64701	LITI_T1	10	11	1	2.18	1.93	-0.25	0	0.03	1	1	0	900	900	0
7/8/2024 22:30	61701	ELIZ_T1	1	1	0	3.5	4.1	0.6	0	0	0	0	0	0	0	0
7/8/2024 22:30	60502	NMAN_T2	0	0	0	0	0	0	0.57	0.51	0	0	0	0	0	0
7/8/2024 22:30	65001	NEFF_T2	0	0	0	0	0	0	-0.04	-0.04	1	1	0	1200	1200	0
7/8/2024 22:30	60201	ATGL_T2	24	0	-24	0.2	0	-0.2	-0.08	0.72	1	1	0	300	300	0
7/8/2024 22:30	61703	ELIZ_T1	0	0	0	0	0	0	-2.36	-2.44	2	2	0	2100	2100	0
7/8/2024 22:30	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/8/2024 22:30	63401	HONY_T1	0	0	0	0	0	0	0.4	0.3	1	1	0	600	600	0
7/8/2024 22:30	67605	WARW_T1	2	3	1	0.55	0.37	-0.18	0	0	0	0	0	0	0	0
7/8/2024 22:30	60501	NMAN_T2	3	3	0	4.53	4.4	-0.13	0	0	0	0	0	0	0	0
7/8/2024 22:30	67603	WARW_T1	0	0	0	0	0	0	-0.16	-0.24	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/8/2024 22:31	66902	SHIL_T2	1	62	61	0.2	0.21	0.01	0	0	0	0	0	0	0	0
7/8/2024 22:31	64204	KINZ_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
7/8/2024 22:31	66901	SHIL_T2	88	231	143	0.17	0.45	0.28	0	0	0	0	0	0	0	0
7/8/2024 22:31	66903	SHIL_T2	0	7	7	0	0.1	0.1	-0.86	-0.91	0	0	0	0	0	0
7/8/2024 22:31	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/8/2024 22:31	64201	KINZ_T1	0	0	0	0	0	0	-0.65	-0.73	4	4	0	2100	2100	0
7/8/2024 22:31	64302	LINC_T2	6	5	-1	1.55	0	-1.55	1.6	1.55	0	0	0	0	0	0
7/8/2024 22:31	15103	UPHA_T2	0	0	0	0	0	0	1.16	1.13	0	0	0	0	0	0
7/8/2024 22:31	61102	BERK_T5	0	0	0	0	0	0	0.44	0.35	2	2	0	1500	1500	0
7/8/2024 22:32	61505	EPET_T1	0	0	0	0	0	0	1.41	1.42	0	0	0	0	0	0
7/8/2024 22:32	64101	REFR_T1	0	0	0	0	0	0	0.08	0	0	0	0	0	0	0
7/8/2024 22:32	61701	ELIZ_T1	1	1	0	3.5	4.1	0.6	0	0	0	0	0	0	0	0
7/8/2024 22:32	66703	STRA_T1	0	0	0	0	0	0	0.35	0.42	0	0	0	0	0	0
7/8/2024 22:32	65604	QVIL_T2	0	0	0	0	0	0	0.95	0.89	0	0	0	0	0	0
7/8/2024 22:32	67602	WARW_T2	3	3	0	0.7	0.6	-0.1	0.37	0.34	2	2	0	1500	1500	0
7/8/2024 22:32	12001	HATF_T1	2	1	-1	0.95	0.2	-0.75	0.36	0.59	2	2	0	1800	1800	0
7/8/2024 22:32	61703	ELIZ_T1	0	0	0	0	0	0	-2.36	-2.44	2	2	0	2100	2100	0
7/8/2024 22:32	29402	BELT_T1	1	1	0	8.6	9.2	0.6	0	0	0	0	0	0	0	0
7/8/2024 22:32	12002	HATF_T1	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
7/8/2024 22:33	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/8/2024 22:33	67605	WARW_T1	2	3	1	0.55	0.37	-0.18	-0.81	-0.85	0	0	0	0	0	0
7/8/2024 22:33	13501	MCMI_T1	0	0	0	0	0	0	0.64	0.54	0	0	0	0	0	0
7/8/2024 22:33	14603	SWHI_T1	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1200	1200	0
7/8/2024 22:33	63501	HEID_TBK1-2	0	0	0	0	0	0	0.34	0.33	1	1	0	900	900	0
7/8/2024 22:33	52403	GRPA_T2	16	9	-7	0.63	0.9	0.27	-0.5	-0.54	0	0	0	0	0	0
7/8/2024 22:33	62102	ELAN_T1	2	2	0	1.95	0	-1.95	0.87	0.86	0	0	0	0	0	0
7/8/2024 22:33	64101	REFR_T1	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
7/8/2024 22:33	67602	WARW_T2	3	3	0	0.7	0.6	-0.1	0.75	0.69	4	4	0	3000	3000	0
7/8/2024 22:33	63401	HONY_T1	0	0	0	0	0	0	0.4	0.3	1	1	0	600	600	0
7/8/2024 22:33	52402	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/8/2024 22:34	61703	ELIZ_T1	0	0	0	0	0	0	-2.36	-2.44	2	2	0	2100	2100	0
7/8/2024 22:34	12801	MICK_T1	0	0	0	0	0	0	-0.61	-0.63	1	1	0	600	600	0
7/8/2024 22:34	12701	MACU_T1	0	0	0	0	0	0	-0.67	-0.71	1	1	0	1200	1200	0
7/8/2024 22:34	65901	SAKR_T2	1	1	0	6.9	7.1	0.2	-0.64	-0.74	2	2	0	1500	1500	0
7/8/2024 22:34	63304	GREE_T1	9	3	-6	0.21	0.1	-0.11	-2.29	-2.39	0	0	0	0	0	0
7/8/2024 22:34	61701	ELIZ_T1	1	1	0	3.5	4.1	0.6	0	0	0	0	0	0	0	0
7/8/2024 22:34	63401	HONY_T1	0	0	0	0	0	0	0.4	0.3	1	1	0	600	600	0
7/8/2024 22:34	63305	GREE_T1	3	2	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/8/2024 22:34	67203	TEHI_T1	0	0	0	0	0	0	2.13	2.15	3	3	0	2100	2100	0
7/8/2024 22:34	11104	EGYP_T1	0	2	2	0	0.2	0.2	0	0.04	0	0	0	0	0	0
7/8/2024 22:34	11102	EGYP_T1	9	10	1	0.68	0.45	-0.23	0	0	0	0	0	0	0	0
7/8/2024 22:35	29402	BELT_T1	1	1	0	8.6	9.2	0.6	0	0	0	0	0	0	0	0
7/8/2024 22:35	67605	WARW_T1	2	3	1	0.55	0.37	-0.18	-0.81	-0.85	0	0	0	0	0	0
7/8/2024 22:35	67602	WARW_T2	3	3	0	0.7	0.6	-0.1	0.37	0.34	2	2	0	1500	1500	0
7/8/2024 22:35	60803	BUCK_T1	3	3	0	0.27	0.17	-0.1	-0.24	-0.23	1	1	0	600	600	0
7/8/2024 22:35	12002	HATF_T1	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
7/8/2024 22:35	13503	MCMI_T2	2	31	29	0.1	0.2	0.1	-0.52	-0.52	0	0	0	0	0	0
7/8/2024 22:35	12001	HATF_T1	2	1	-1	0.95	0.2	-0.75	0.36	0.59	2	2	0	1800	1800	0
7/8/2024 22:35	66504	SMAN_T2	0	1	1	0	0	0	-0.44	-0.43	0	0	0	0	0	0
7/8/2024 22:35	63401	HONY_T1	0	0	0	0	0	0	0.4	0.3	1	1	0	600	600	0
7/8/2024 22:35	23202	HIRU_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
7/8/2024 22:35	66505	SMAN_T2	2	0	-2	0.2	0	-0.2	0.14	0.01	3	3	0	2100	2100	0
7/8/2024 22:36	20601	GRWO_T2	10	1	-9	0.5	0	-0.5	0.47	0.44	0	0	0	0	0	0
7/8/2024 22:36	11001	EGRE_T1	0	0	0	0	0	0	0.02	0	1	1	0	1200	1200	0
7/8/2024 22:36	66503	SMAN_T2	0	0	0	0	0	0	1.09	1.05	0	0	0	0	0	0
7/8/2024 22:36	65503	MOJO_T2	0	0	0	0	0	0	-0.31	-0.34	1	1	0	900	900	0
7/8/2024 22:36	64801	MONE_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
7/8/2024 22:36	66505	SMAN_T2	2	0	-2	0.2	0	-0.2	0.01	-0.13	3	3	0	2100	2100	0
7/8/2024 22:36	57401	SPAN_T1	9	2	-7	0.31	0	-0.31	-0.27	-0.38	1	1	0	600	600	0
7/8/2024 22:36	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 22:36	67605	WARW_T1	2	3	1	0.55	0.37	-0.18	-1.7	-1.87	0	0	0	0	0	0
7/8/2024 22:37	67204	TEHI_T2	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
7/8/2024 22:37	12606	MACA_T1	72	68	-4	2.77	2.58	-0.19	0	0	0	0	0	0	0	0
7/8/2024 22:37	12602	MACA_T1	13	14	1	1.56	0.45	-1.11	0	0	0	0	0	0	0	0
7/8/2024 22:37	11102	EGYP_T1	9	10	1	0.68	0.45	-0.23	0	0	0	0	0	0	0	0
7/8/2024 22:37	12601	MACA_T1	0	2	2	0	0.1	0.1	1.56	1.52	0	0	0	0	0	0
7/8/2024 22:37	11104	EGYP_T1	0	2	2	0	0.2	0.2	-0.04	-0.11	0	0	0	0	0	0
7/8/2024 22:37	56504	ROCK_T2	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/8/2024 22:37	67202	TEHI_T2	0	0	0	0	0	0	0.14	0.1	1	1	0	900	900	0
7/8/2024 22:37	64203	KINZ_T1	0	0	0	0	0	0	0.07	0.06	1	1	0	600	600	0
7/8/2024 22:37	56501	ROCK_T2	44	142	98	0.16	0.29	0.13	-2.34	-2.48	0	0	0	0	0	0
7/8/2024 22:37	64204	KINZ_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
7/8/2024 22:38	60201	ATGL_T2	24	0	-24	0.2	0	-0.2	1.43	1.41	2	2	0	600	600	0
7/8/2024 22:38	66703	STRA_T1	0	0	0	0	0	0	0.66	0.63	1	1	0	600	600	0
7/8/2024 22:38	52402	GRPA_T2	0	2	2	0	0.1	0.1	-0.61	-0.49	0	0	0	0	0	0
7/8/2024 22:38	60803	BUCK_T1	3	3	0	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
7/8/2024 22:38	55002	NEWP_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
7/8/2024 22:38	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/8/2024 22:38	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/8/2024 22:38	59101	WALK_T2	3	0	-3	0.67	0	-0.67	0.43	0.54	2	2	0	1200	1200	0
7/8/2024 22:38	65205	PRIN_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/8/2024 22:38	52403	GRPA_T2	16	9	-7	0.63	0.9	0.27	0	0	0	0	0	0	0	0
7/8/2024 22:38	56801	BENV_T1	7	9	2	0.44	1.08	0.64	-0.55	-0.76	3	3	0	1800	1800	0
7/8/2024 22:38	67602	WARW_T2	3	3	0	0.7	0.6	-0.1	0.34	0.28	2	2	0	1500	1500	0
7/8/2024 22:38	11405	FARM_T1	1	0	-1	0.3	0	-0.3	0.4	0.43	1	1	0	1200	1200	0
7/8/2024 22:38	60801	BUCK_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
7/8/2024 22:38	11504	FREE_T1	0	0	0	0	0	0	-1.55	-1.37	2	2	0	2100	2100	0
7/8/2024 22:38	55001	NEWP_T1	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
7/8/2024 22:38	56803	BENV_T1	1	3	2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
7/8/2024 22:39	64101	REFR_T1	0	0	0	0	0	0	0	-0.08	0	0	0	0	0	0
7/8/2024 22:39	58006	WCAR_T2	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
7/8/2024 22:39	56803	BENV_T1	1	3	2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
7/8/2024 22:39	56802	BENV_T2	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
7/8/2024 22:39	56801	BENV_T1	7	9	2	0.44	1.08	0.64	-0.18	-0.25	1	1	0	600	600	0
7/8/2024 22:40	56803	BENV_T1	1	3	2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
7/8/2024 22:40	56801	BENV_T1	7	9	2	0.44	1.08	0.64	-0.37	-0.51	2	2	0	1200	1200	0
7/8/2024 22:40	57401	SPAN_T1	9	2	-7	0.31	0	-0.31	-0.38	-0.44	1	1	0	600	600	0
7/8/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	0	-0.08	0	0	0	0	0	0
7/8/2024 22:40	58003	WCAR_T1	1	1	0	0.8	1.3	0.5	0.53	0.48	1	1	0	600	600	0
7/8/2024 22:40	11802	FRAN_T1	16	15	-1	1.01	0.65	-0.36	0	0	0	0	0	0	0	0
7/8/2024 22:40	64203	KINZ_T1	0	0	0	0	0	0	0.07	0.06	1	1	0	600	600	0
7/8/2024 22:40	64204	KINZ_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
7/8/2024 22:40	59003	MIFF_T1	0	0	0	0	0	0	-0.59	-0.5	0	0	0	0	0	0
7/8/2024 22:40	11804	FRAN_T1	250	248	-2	2.27	1.51	-0.76	-0.23	-0.31	1	1	0	1200	1200	0
7/8/2024 22:41	64203	KINZ_T1	0	0	0	0	0	0	0.07	0.06	1	1	0	600	600	0
7/8/2024 22:41	65902	SAKR_T2	0	0	0	0	0	0	-0.86	-0.93	1	1	0	900	900	0
7/8/2024 22:41	54701	NEBL_T1	1	1	0	0.3	1.3	1	0	0	1	1	0	600	600	0
7/8/2024 22:41	56801	BENV_T1	7	9	2	0.44	1.08	0.64	-0.37	-0.51	2	2	0	1200	1200	0
7/8/2024 22:41	65901	SAKR_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
7/8/2024 22:41	66703	STRA_T1	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
7/8/2024 22:41	67204	TEHI_T2	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
7/8/2024 22:41	59003	MIFF_T1	0	0	0	0	0	0	-0.59	-0.5	0	0	0	0	0	0
7/8/2024 22:41	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/8/2024 22:41	52404	GRPA_T2	0	0	0	0	0	0	0.07	-0.01	0	0	0	0	0	0
7/8/2024 22:41	52403	GRPA_T2	16	9	-7	0.63	0.9	0.27	0	0	0	0	0	0	0	0
7/8/2024 22:41	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 22:41	64204	KINZ_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
7/8/2024 22:41	56803	BENV_T1	1	3	2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
7/8/2024 22:41	64101	REFR_T1	0	0	0	0	0	0	0	-0.16	0	0	0	0	0	0
7/8/2024 22:41	52402	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/8/2024 22:42	47401	PENS_T1	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
7/8/2024 22:42	55001	NEWP_T1	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
7/8/2024 22:42	14401	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 22:42	52403	GRPA_T2	16	9	-7	0.63	0.9	0.27	0	0	0	0	0	0	0	0
7/8/2024 22:42	14404	SSLA_T1	7	3	-4	0.64	1.6	0.96	0.03	-0.01	1	1	0	900	900	0
7/8/2024 22:42	52404	GRPA_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
7/8/2024 22:42	55002	NEWP_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
7/8/2024 22:42	56801	BENV_T1	7	9	2	0.44	1.08	0.64	-0.18	-0.25	1	1	0	600	600	0
7/8/2024 22:42	14403	SSLA_T1	3	1	-2	0.33	0	-0.33	0	0	0	0	0	0	0	0
7/8/2024 22:42	52402	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/8/2024 22:42	14402	SSLA_T1	5	4	-1	1.18	0.5	-0.68	0	0	0	0	0	0	0	0
7/8/2024 22:42	67602	WARW_T2	3	3	0	0.7	0.6	-0.1	0.34	0.28	2	2	0	1500	1500	0
7/8/2024 22:42	56803	BENV_T1	1	3	2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
7/8/2024 22:42	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/8/2024 22:43	14402	SSLA_T1	5	4	-1	1.18	0.5	-0.68	0	0	0	0	0	0	0	0
7/8/2024 22:43	64101	REFR_T1	0	0	0	0	0	0	0	-0.08	0	0	0	0	0	0
7/8/2024 22:43	66903	SHIL_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
7/8/2024 22:43	14404	SSLA_T1	7	3	-4	0.64	1.6	0.96	0.03	-0.01	1	1	0	900	900	0
7/8/2024 22:43	64204	KINZ_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
7/8/2024 22:43	13503	MCMI_T2	2	31	29	0.1	0.2	0.1	-0.52	-0.59	0	0	0	0	0	0
7/8/2024 22:43	59101	WALK_T2	3	0	-3	0.67	0	-0.67	1.43	0.54	2	2	0	1200	1200	0
7/8/2024 22:43	14401	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 22:43	64203	KINZ_T1	0	0	0	0	0	0	0.07	0.06	1	1	0	600	600	0
7/8/2024 22:43	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 22:43	56801	BENV_T1	7	9	2	0.44	1.08	0.64	-0.18	-0.25	1	1	0	600	600	0
7/8/2024 22:43	66902	SHIL_T2	1	62	61	0.2	0.21	0.01	-1.49	-1.57	0	0	0	0	0	0
7/8/2024 22:43	63305	GREE_T1	3	2	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/8/2024 22:43	56803	BENV_T1	1	3	2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
7/8/2024 22:43	14403	SSLA_T1	3	1	-2	0.33	0	-0.33	0	0	0	0	0	0	0	0
7/8/2024 22:43	66901	SHIL_T2	88	231	143	0.17	0.45	0.28	0	0	0	0	0	0	0	0
7/8/2024 22:43	66701	STRA_T1	0	0	0	0	0	0	0.66	0.63	1	1	0	600	600	0
7/8/2024 22:43	63304	GREE_T1	9	3	-6	0.21	0.1	-0.11	-2.39	-2.45	0	0	0	0	0	0
7/8/2024 22:44	53803	MBRG_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
7/8/2024 22:44	64203	KINZ_T1	0	0	0	0	0	0	0.07	0.06	1	1	0	600	600	0
7/8/2024 22:44	67201	TEHI_T1	0	0	0	0	0	0	-0.09	-0.13	0	0	0	0	0	0
7/8/2024 22:44	64204	KINZ_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
7/8/2024 22:44	64101	REFR_T1	0	0	0	0	0	0	0	-0.08	0	0	0	0	0	0
7/8/2024 22:45	66903	SHIL_T2	0	7	7	0	0.1	0.1	-0.91	-0.9	0	0	0	0	0	0
7/8/2024 22:45	45802	HEGI_T2	3	8	5	0.17	0.31	0.14	0.13	0.11	2	2	0	1200	1200	0
7/8/2024 22:45	66902	SHIL_T2	1	62	61	0.1	0.21	0.11	0	0	0	0	0	0	0	0
7/8/2024 22:45	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/8/2024 22:45	66901	SHIL_T2	119	231	112	0.21	0.45	0.24	0	0	0	0	0	0	0	0
7/8/2024 22:46	47001	HUGH_T2	3	3	0	7.67	8.13	0.46	-1.46	-1.53	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/8/2024 22:46	46206	DANV_T2	5	7	2	0.5	0.75	0.25	1.61	1.59	2	2	0	2100	2100	0
7/8/2024 22:46	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.35	1	1	0	600	600	0
7/8/2024 22:46	60502	NMAN_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
7/8/2024 22:46	60501	NMAN_T2	3	3	0	4.4	4.33	-0.07	0	0	0	0	0	0	0	0
7/8/2024 22:46	52004	LING_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
7/8/2024 22:46	46203	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 22:46	59101	WALK_T2	0	0	0	0	0	0	0.43	0.54	2	2	0	1200	1200	0
7/8/2024 22:46	55003	NEWP_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
7/8/2024 22:46	60504	NMAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 22:46	58401	MORO_T1	0	0	0	0	0	0	-2	-2.03	2	2	0	1200	1200	0
7/8/2024 22:47	43301	WATS_T2	0	0	0	0	0	0	-0.12	-0.23	1	1	0	900	900	0
7/8/2024 22:47	24902	WHHA_T1	2	5	3	0.35	0	-0.35	0.37	0.36	0	0	0	0	0	0
7/8/2024 22:47	20601	GRWO_T2	0	1	1	0	0	0	0.44	0.37	0	0	0	0	0	0
7/8/2024 22:47	43304	WATS_T2	2	7	5	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
7/8/2024 22:47	47401	PENS_T1	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
7/8/2024 22:47	15604	NSTR_T1	1	1	0	0.2	0	-0.2	-0.41	0.5	0	0	0	0	0	0
7/8/2024 22:47	53601	DALM_T2	1	1	0	0.1	0	-0.1	0.85	0.83	0	0	0	0	0	0
7/8/2024 22:47	67605	WARW_T1	3	3	0	0.37	0.6	0.23	-0.85	-0.93	0	0	0	0	0	0
7/8/2024 22:47	57401	SPAN_T1	2	0	-2	0.25	0	-0.25	-0.38	-0.44	1	1	0	600	600	0
7/8/2024 22:47	46801	HEPB_T2	0	2	2	0	0.35	0.35	0.16	0.11	0	0	0	0	0	0
7/8/2024 22:48	40101	HUNT_T2	3	3	0	0.5	0	-0.5	-1.51	-1.23	0	0	0	0	0	0
7/8/2024 22:48	56802	BENV_T2	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
7/8/2024 22:48	11103	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 22:48	41304	FISH_T2	1	1	0	0	0	0	-0.41	-0.28	0	0	0	0	0	0
7/8/2024 22:48	55408	SHER_T2	1	1	0	2.7	2.9	0.2	-0.56	-0.55	1	1	0	1200	1200	0
7/8/2024 22:48	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 22:48	25603	ARRO_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
7/8/2024 22:48	43402	BENT_T1	0	0	0	0	0	0	-0.73	-0.75	1	1	0	900	900	0
7/8/2024 22:48	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
7/8/2024 22:48	41302	FISH_T2	16	15	-1	3.74	1.83	-1.91	0	0	0	0	0	0	0	0
7/8/2024 22:48	11102	EGYP_T1	10	3	-7	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
7/8/2024 22:48	56803	BENV_T1	3	2	-1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/8/2024 22:48	11104	EGYP_T1	2	2	0	0.1	0.2	0.1	-0.04	-0.11	0	0	0	0	0	0
7/8/2024 22:48	56801	BENV_T1	9	7	-2	1.03	0.99	-0.04	-0.18	-0.25	1	1	0	600	600	0
7/8/2024 22:48	23401	HONE_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
7/8/2024 22:49	48302	ORWI_T2	0	2	2	0	0	0	-0.22	-0.25	0	0	0	0	0	0
7/8/2024 22:49	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/8/2024 22:49	13105	NHAM_T2	36	30	-6	0.7	0.61	-0.09	-0.69	-0.72	1	1	0	1200	1200	0
7/8/2024 22:49	52004	LING_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
7/8/2024 22:49	29402	BELT_T1	1	1	0	9.2	8.6	-0.6	0	0	0	0	0	0	0	0
7/8/2024 22:49	13103	NHAM_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/8/2024 22:49	56803	BENV_T1	3	2	-1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/8/2024 22:49	56801	BENV_T1	9	7	-2	1.03	0.99	-0.04	-0.18	-0.25	1	1	0	600	600	0
7/8/2024 22:50	14403	SSLA_T1	0	1	1	0	0	0	1.31	1.32	0	0	0	0	0	0
7/8/2024 22:50	57101	SPHI_T2	6	0	-6	0.27	0.7	0.43	0	0	0	0	0	0	0	0
7/8/2024 22:50	41902	REED_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 22:50	52402	GRPA_T2	2	2	0	0.1	0	-0.1	-0.61	-0.49	0	0	0	0	0	0
7/8/2024 22:50	40603	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/8/2024 22:50	52401	GRPA_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/8/2024 22:50	56803	BENV_T1	3	2	-1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/8/2024 22:50	56501	ROCK_T2	142	95	-47	0.29	0.27	-0.02	-4.69	-4.95	0	0	0	0	0	0
7/8/2024 22:50	57106	SPHI_T2	3	3	0	0.73	1	0.27	0	0	0	0	0	0	0	0
7/8/2024 22:50	57104	SPHI_T2	0	0	0	0	0	0	0.01	-0.04	0	0	0	0	0	0
7/8/2024 22:50	52403	GRPA_T2	4	10	6	0.9	0.84	-0.06	-0.54	0.03	0	0	0	0	0	0
7/8/2024 22:50	63501	HEID_TBK1-2	0	0	0	0	0	0	0.33	0.26	1	1	0	900	900	0
7/8/2024 22:50	14401	SSLA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/8/2024 22:50	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 22:50	45802	HEGI_T2	3	8	5	0.17	0.31	0.14	0.13	0.11	2	2	0	1200	1200	0
7/8/2024 22:50	14402	SSLA_T1	4	4	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
7/8/2024 22:50	14404	SSLA_T1	3	2	-1	1.07	1.8	0.73	0	0	0	0	0	0	0	0
7/8/2024 22:50	56801	BENV_T1	9	7	-2	1.03	0.99	-0.04	-0.18	-0.25	1	1	0	600	600	0
7/8/2024 22:50	41903	REED_T1	0	0	0	0	0	0	0.33	0.3	1	1	0	1200	1200	0
7/8/2024 22:50	13503	MCMI_T2	16	44	28	0.13	0.28	0.15	-0.52	-0.59	0	0	0	0	0	0
7/8/2024 22:50	41901	REED_T1	7	0	-7	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/8/2024 22:50	56504	ROCK_T2	1	0	-1	0.1	0	-0.1	0.25	0.22	0	0	0	0	0	0
7/8/2024 22:50	40602	PIGR_T1	0	1	1	0	0	0	-1.48	-1.6	0	0	0	0	0	0
7/8/2024 22:50	67605	WARW_T1	3	3	0	0.37	0.6	0.23	-0.85	-0.93	0	0	0	0	0	0
7/8/2024 22:51	51004	NHAR_T1	1	9	8	6.9	7	0.1	-1.18	-1.23	0	0	0	0	0	0
7/8/2024 22:51	52504	PROG_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/8/2024 22:51	20403	ASHF_T2	0	0	0	0	0	0	0.88	0.85	0	0	0	0	0	0
7/8/2024 22:51	47101	MARL_T1	18	22	4	1.11	1.19	0.08	-0.84	-0.91	1	1	0	600	600	0
7/8/2024 22:51	20402	ASHF_T2	6	2	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/8/2024 22:51	59101	WALK_T2	0	0	0	0	0	0	0.43	0.54	2	2	0	1200	1200	0
7/8/2024 22:51	56803	BENV_T1	3	2	-1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/8/2024 22:51	47401	PENS_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
7/8/2024 22:51	52501	PROG_T1	2	0	-2	0.15	0	-0.15	-1.19	-1.32	2	2	0	600	600	0
7/8/2024 22:51	47001	HUGH_T2	3	3	0	7.67	8.13	0.46	-1.53	-1.53	1	1	0	900	900	0
7/8/2024 22:51	57401	SPAN_T1	2	0	-2	0.25	0	-0.25	-0.76	-0.87	2	2	0	1200	1200	0
7/8/2024 22:51	56801	BENV_T1	9	7	-2	1.03	0.99	-0.04	-0.37	-0.51	2	2	0	1200	1200	0
7/8/2024 22:51	24902	WHHA_T1	2	5	3	0.35	0	-0.35	0.37	0.36	0	0	0	0	0	0
7/8/2024 22:51	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/8/2024 22:51	25602	ARRO_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
7/8/2024 22:51	20401	ASHF_T2	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/8/2024 22:51	45602	WOOL_T1	0	3	3	0	0.1	0.1	0.56	0.49	0	0	0	0	0	0
7/8/2024 22:52	56802	BENV_T2	0	0	0	0	0	0	-0.91	-0.95	0	0	0	0	0	0
7/8/2024 22:52	47401	PENS_T1	0	0	0	0	0	0	0.7	0.66	0	0	0	0	0	0
7/8/2024 22:52	46801	HEPB_T2	0	2	2	0	0.35	0.35	0.11	0.11	0	0	0	0	0	0
7/8/2024 22:52	20601	GRWO_T2	0	1	1	0	0	0	0.37	0.39	0	0	0	0	0	0
7/8/2024 22:52	42903	MIDD_T2	0	1	1	0	0.1	0.1	-0.96	-1.22	1	1	0	1200	1200	0
7/8/2024 22:52	55002	NEWP_T1	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
7/8/2024 22:52	57401	SPAN_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/8/2024 22:52	45702	LIND_T2	0	0	0	0	0	0	-1.33	-1.35	0	0	0	0	0	0
7/8/2024 22:52	56501	ROCK_T2	142	95	-47	0.29	0.27	-0.02	-4.95	-5.01	0	0	0	0	0	0
7/8/2024 22:52	55001	NEWP_T1	0	0	0	0	0	0	-0.53	0.03	0	0	0	0	0	0
7/8/2024 22:52	56803	BENV_T1	3	2	-1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/8/2024 22:52	43304	WATS_T2	2	7	5	0.3	0.18	-0.12	-0.85	-0.26	1	0	-1	600	0	-600
7/8/2024 22:52	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 22:52	40603	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/8/2024 22:52	45801	HEGI_T1	0	0	0	0	0	0	-0.55	-0.59	2	2	0	1800	1800	0
7/8/2024 22:52	56801	BENV_T1	9	7	-2	1.03	0.99	-0.04	-0.51	-0.52	2	2	0	1200	1200	0
7/8/2024 22:52	56504	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 22:52	48902	FOSP_T2	0	0	0	0	0	0	0.19	0.15	0	0	0	0	0	0
7/8/2024 22:52	57403	SPAN_T1	0	0	0	0	0	0	0.93	0.91	0	0	0	0	0	0
7/8/2024 22:53	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.14	0	0	0	0	0	0
7/8/2024 22:53	56501	ROCK_T2	142	95	-47	0.29	0.27	-0.02	-4.95	-5.01	0	0	0	0	0	0
7/8/2024 22:53	40302	TAMA_T3	0	1	1	0	0.1	0.1	-0.96	-0.98	0	0	0	0	0	0
7/8/2024 22:53	22901	HARW_T1	10	20	10	0.3	0.38	0.08	-0.22	-0.36	1	1	0	1200	1200	0
7/8/2024 22:53	42201	SHEN_T2	0	0	0	0	0	0	0.35	0.35	1	1	0	600	600	0
7/8/2024 22:53	20403	ASHF_T2	0	0	0	0	0	0	0.85	0.78	0	0	0	0	0	0
7/8/2024 22:53	44301	BEAV_T2	2	1	-1	0.85	0.2	-0.65	0.16	-0.02	1	1	0	600	600	0
7/8/2024 22:53	56504	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 22:53	20401	ASHF_T2	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/8/2024 22:53	40602	PIGR_T1	0	1	1	0	0	0	-0.53	-0.57	0	0	0	0	0	0
7/8/2024 22:53	22905	HARW_T1	32	58	26	0.56	0.44	-0.12	0	0	0	0	0	0	0	0
7/8/2024 22:53	57401	SPAN_T1	2	0	-2	0.25	0	-0.25	-0.44	-0.43	1	1	0	600	600	0
7/8/2024 22:53	22903	HARW_T1	11	22	11	0.72	0.74	0.02	0	0	0	0	0	0	0	0
7/8/2024 22:53	47101	MARL_T1	18	22	4	1.11	1.19	0.08	-1.82	-1.86	2	2	0	1200	1200	0
7/8/2024 22:53	20402	ASHF_T2	6	2	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/8/2024 22:53	40603	PIGR_T1	1	0	-1	0.2	0	-0.2	0.73	0.7	0	0	0	0	0	0
7/8/2024 22:53	20601	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 22:53	56801	BENV_T1	9	7	-2	1.03	0.99	-0.04	-0.25	-0.26	1	1	0	600	600	0
7/8/2024 22:53	22602	KIMB_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
7/8/2024 22:53	58803	COCO_T1	1	1	0	1.1	1.1	0	-0.87	-0.9	1	1	0	600	600	0
7/8/2024 22:53	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 22:53	20603	GRWO_T2	0	0	0	0	0	0	-0.34	-0.34	1	1	0	900	900	0
7/8/2024 22:53	51004	NHAR_T1	1	9	8	6.9	7	0.1	-1.23	-1.15	0	0	0	0	0	0
7/8/2024 22:53	56803	BENV_T1	3	2	-1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/8/2024 22:54	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.14	0	0	0	0	0	0
7/8/2024 22:54	20403	ASHF_T2	0	0	0	0	0	0	0.85	0.78	0	0	0	0	0	0
7/8/2024 22:54	47101	MARL_T1	18	22	4	1.11	1.19	0.08	-1.82	-1.86	2	2	0	1200	1200	0
7/8/2024 22:54	42201	SHEN_T2	0	0	0	0	0	0	0.35	0.35	1	1	0	600	600	0
7/8/2024 22:54	56504	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 22:54	43304	WATS_T2	2	7	5	0.3	0.18	-0.12	-1.71	-0.53	2	0	-2	1200	0	-1200
7/8/2024 22:54	55408	SHER_T2	1	1	0	2.7	2.9	0.2	-0.55	-0.58	1	1	0	1200	1200	0
7/8/2024 22:54	53501	EVIL_T2	0	1	1	0	0.6	0.6	-0.97	-0.95	2	2	0	1200	1200	0
7/8/2024 22:54	20401	ASHF_T2	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/8/2024 22:54	47401	PENS_T1	0	0	0	0	0	0	0.7	0.66	0	0	0	0	0	0
7/8/2024 22:54	56801	BENV_T1	9	7	-2	1.03	0.99	-0.04	-0.76	-0.78	3	3	0	1800	1800	0
7/8/2024 22:54	46301	ROHR_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/8/2024 22:54	44601	SALE_T2	0	0	0	0	0	0	0.16	0.1	0	0	0	0	0	0
7/8/2024 22:54	20402	ASHF_T2	6	2	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/8/2024 22:54	43301	WATS_T2	0	0	0	0	0	0	-0.23	-0.22	1	1	0	900	900	0
7/8/2024 22:54	56803	BENV_T1	3	2	-1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/8/2024 22:54	57106	SPHI_T2	3	3	0	0.73	1	0.27	0	0	0	0	0	0	0	0
7/8/2024 22:54	56501	ROCK_T2	142	95	-47	0.29	0.27	-0.02	-4.95	-5.01	0	0	0	0	0	0
7/8/2024 22:54	57101	SPHI_T2	6	6	0	0.27	0.7	0.43	0	0	0	0	0	0	0	0
7/8/2024 22:54	46302	ROHR_T1	4	4	0	1.03	1.4	0.37	0.37	0.34	0	0	0	0	0	0
7/8/2024 22:54	46001	BERW_T1	0	0	0	0	0	0	1.29	1.17	0	0	0	0	0	0
7/8/2024 22:54	48301	ORWI_T1	2	2	0	5	5.2	0.2	-0.43	-0.45	1	1	0	900	900	0
7/8/2024 22:54	57103	SPHI_T2	0	0	0	0	0	0	-0.36	-0.37	1	1	0	600	600	0
7/8/2024 22:55	57306	MOAL_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 22:55	20401	ASHF_T2	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/8/2024 22:55	59101	WALK_T2	0	0	0	0	0	0	0.54	0.29	2	2	0	1200	1200	0
7/8/2024 22:55	42701	AUGU_T1	1	2	1	0.6	0	-0.6	0	0	2	2	0	1800	1800	0
7/8/2024 22:55	49803	UNIV_T1	0	0	0	0	0	0	-1.91	-1.95	0	0	0	0	0	0
7/8/2024 22:55	20601	GRWO_T2	0	1	1	0	0	0	0.37	0.39	0	0	0	0	0	0
7/8/2024 22:55	56501	ROCK_T2	142	95	-47	0.29	0.27	-0.02	-2.48	-2.51	0	0	0	0	0	0
7/8/2024 22:55	24902	WHHA_T1	2	5	3	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/8/2024 22:55	57301	MOAL_T2	2	1	-1	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/8/2024 22:55	46301	ROHR_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/8/2024 22:55	56504	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 22:55	46101	MACI_T2	1	0	-1	0.1	0	-0.1	-0.4	-0.41	1	1	0	1200	1200	0
7/8/2024 22:55	57302	MOAL_T2	2	1	-1	0.35	0	-0.35	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/8/2024 22:55	46302	ROHR_T1	4	4	0	1.03	1.4	0.37	0.37	0.34	0	0	0	0	0	0
7/8/2024 22:55	24901	WHHA_T1	0	0	0	0	0	0	0.8	0.74	0	0	0	0	0	0
7/8/2024 22:55	43304	WATS_T2	2	7	5	0.3	0.18	-0.12	-0.85	-0.26	1	0	-1	600	0	-600
7/8/2024 22:55	57303	MOAL_T2	1	1	0	8.2	7.9	-0.3	0	0	0	0	0	0	0	0
7/8/2024 22:55	57304	MOAL_T2	0	0	0	0	0	0	0.01	-0.07	0	0	0	0	0	0
7/8/2024 22:55	22602	KIMB_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
7/8/2024 22:55	47101	MARL_T1	18	22	4	1.11	1.19	0.08	-2.73	-2.8	3	3	0	1800	1800	0
7/8/2024 22:55	20402	ASHF_T2	6	2	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/8/2024 22:55	40101	HUNT_T2	3	3	0	0.5	0	-0.5	-1.23	-1.24	0	0	0	0	0	0
7/8/2024 22:55	20403	ASHF_T2	0	0	0	0	0	0	0.85	0.78	0	0	0	0	0	0
7/8/2024 22:56	57306	MOAL_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 22:56	49803	UNIV_T1	0	0	0	0	0	0	-1.91	-1.95	0	0	0	0	0	0
7/8/2024 22:56	57301	MOAL_T2	2	1	-1	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/8/2024 22:56	43304	WATS_T2	2	7	5	0.3	0.18	-0.12	-0.85	-0.26	1	0	-1	600	0	-600
7/8/2024 22:56	57304	MOAL_T2	0	0	0	0	0	0	0.01	-0.07	0	0	0	0	0	0
7/8/2024 22:56	55405	SHER_T1	0	6	6	0	0.23	0.23	-0.24	-0.24	0	0	0	0	0	0
7/8/2024 22:56	46001	BERW_T1	0	0	0	0	0	0	1.29	1.17	0	0	0	0	0	0
7/8/2024 22:56	45302	WBER_T2	0	0	0	0	0	0	1.47	1.27	0	0	0	0	0	0
7/8/2024 22:56	45702	LIND_T2	0	0	0	0	0	0	-1.33	-1.35	0	0	0	0	0	0
7/8/2024 22:56	47101	MARL_T1	18	22	4	1.11	1.19	0.08	-1.82	-1.86	2	2	0	1200	1200	0
7/8/2024 22:56	56501	ROCK_T2	142	95	-47	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
7/8/2024 22:56	44601	SALE_T2	0	0	0	0	0	0	0.16	0.1	0	0	0	0	0	0
7/8/2024 22:56	45303	WBER_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/8/2024 22:56	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.14	0	0	0	0	0	0
7/8/2024 22:56	57302	MOAL_T2	2	1	-1	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/8/2024 22:56	56504	ROCK_T2	1	0	-1	0.1	0	-0.1	0.22	0.18	0	0	0	0	0	0
7/8/2024 22:56	57303	MOAL_T2	1	1	0	8.2	7.9	-0.3	0	0	0	0	0	0	0	0
7/8/2024 22:57	40603	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/8/2024 22:57	40601	PIGR_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
7/8/2024 22:57	41902	REED_T1	0	2	2	0	0	0	0.43	0.45	1	1	0	900	900	0
7/8/2024 22:57	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 22:57	40101	HUNT_T2	3	3	0	0.5	0	-0.5	-1.23	-1.24	0	0	0	0	0	0
7/8/2024 22:57	46203	DANV_T2	1	0	-1	0.1	0	-0.1	-0.12	-1.48	0	0	0	0	0	0
7/8/2024 22:57	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.14	0	0	0	0	0	0
7/8/2024 22:57	43304	WATS_T2	2	7	5	0.3	0.18	-0.12	-1.71	-0.53	2	0	-2	1200	0	-1200
7/8/2024 22:57	46206	DANV_T2	5	7	2	0.5	0.75	0.25	0	0	0	0	0	0	0	0
7/8/2024 22:57	40901	JESH_T1	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
7/8/2024 22:57	40902	JESH_T1	0	0	0	0	0	0	-1.3	-1.35	2	2	0	1200	1200	0
7/8/2024 22:57	44902	SCOT_T2	22	57	35	0.15	0.12	-0.03	-0.45	-0.53	0	0	0	0	0	0
7/8/2024 22:57	47101	MARL_T1	18	22	4	1.11	1.19	0.08	-1.82	-1.86	2	2	0	1200	1200	0
7/8/2024 22:57	41901	REED_T1	7	0	-7	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/8/2024 22:57	43301	WATS_T2	0	0	0	0	0	0	-0.45	-0.45	2	2	0	1800	1800	0
7/8/2024 22:58	41902	REED_T1	0	2	2	0	0	0	0.43	0.45	1	1	0	900	900	0
7/8/2024 22:58	41901	REED_T1	7	0	-7	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/8/2024 22:58	45302	WBER_T2	0	0	0	0	0	0	1.47	1.27	0	0	0	0	0	0
7/8/2024 22:58	49804	UNIV_T1	0	0	0	0	0	0	1.11	1.03	0	0	0	0	0	0
7/8/2024 22:58	43304	WATS_T2	2	7	5	0.3	0.18	-0.12	-1.71	-0.53	2	0	-2	1200	0	-1200
7/8/2024 22:58	47101	MARL_T1	18	22	4	1.11	1.19	0.08	-1.82	-1.86	2	2	0	1200	1200	0
7/8/2024 22:58	43202	MVIL_T2	0	3	3	0	0	0	-1.03	-1.07	0	0	0	0	0	0
7/8/2024 22:58	43201	MVIL_T2	1	5	4	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/8/2024 22:58	44901	SCOT_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
7/8/2024 22:58	47401	PENS_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
7/8/2024 22:58	44902	SCOT_T2	22	57	35	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
7/8/2024 22:58	57702	PAXT_T1	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
7/8/2024 22:58	46206	DANV_T2	5	7	2	0.5	0.75	0.25	0	0	0	0	0	0	0	0
7/8/2024 22:58	46203	DANV_T2	1	0	-1	0.1	0	-0.1	-0.12	-1.48	0	0	0	0	0	0
7/8/2024 22:58	43402	BENT_T1	0	0	0	0	0	0	-1.5	-1.56	2	2	0	1800	1800	0
7/8/2024 22:58	45303	WBER_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/8/2024 22:59	46203	DANV_T2	1	0	-1	0.1	0	-0.1	-0.36	-4.44	0	0	0	0	0	0
7/8/2024 22:59	43304	WATS_T2	2	7	5	0.3	0.18	-0.12	-2.56	-0.79	3	0	-3	1800	0	-1800
7/8/2024 22:59	47101	MARL_T1	18	22	4	1.11	1.19	0.08	-0.91	-0.93	1	1	0	600	600	0
7/8/2024 22:59	44801	EDAN_T2	1	1	0	1.3	1.5	0.2	0.9	0.83	0	0	0	0	0	0
7/8/2024 22:59	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/8/2024 22:59	46206	DANV_T2	5	7	2	0.5	0.75	0.25	0	0	0	0	0	0	0	0
7/8/2024 23:00	40101	HUNT_T2	1	3	2	0.9	0.2	-0.7	-1.23	-1.24	0	0	0	0	0	0
7/8/2024 23:00	46302	ROHR_T1	4	4	0	1.25	1.43	0.18	0.37	0.34	0	0	0	0	0	0
7/8/2024 23:00	45602	WOOL_T1	2	15	13	0.1	0.3	0.2	0.56	0.49	0	0	0	0	0	0
7/8/2024 23:00	43301	WATS_T2	0	0	0	0	0	0	0.23	0.22	1	1	0	900	900	0
7/8/2024 23:00	46301	ROHR_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/8/2024 23:00	43304	WATS_T2	7	4	-3	0.64	0	-0.64	0	0	0	0	0	0	0	0
7/8/2024 23:01	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/8/2024 23:01	41902	REED_T1	2	0	-2	0.4	0	-0.4	0.43	0.45	1	1	0	900	900	0
7/8/2024 23:02	41902	REED_T1	2	0	-2	0.4	0	-0.4	0.43	0.45	1	1	0	900	900	0
7/8/2024 23:02	43304	WATS_T2	7	4	-3	0.64	0	-0.64	0	0	0	0	0	0	0	0
7/8/2024 23:02	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/8/2024 23:02	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/8/2024 23:02	43301	WATS_T2	0	0	0	0	0	0	-0.23	-0.22	1	1	0	900	900	0
7/8/2024 23:04	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.05	1	1	0	600	600	0
7/8/2024 23:04	64204	KINZ_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
7/8/2024 23:05	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.05	1	1	0	600	600	0
7/8/2024 23:05	58001	WCAR_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
7/8/2024 23:05	58003	WCAR_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
7/8/2024 23:05	64204	KINZ_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
7/8/2024 23:10	56801	BENV_T1	6	8	2	1.05	0.96	-0.09	-0.26	-0.29	1	1	0	600	600	0
7/8/2024 23:10	56803	BENV_T1	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/8/2024 23:29	46206	DANV_T2	7	4	-3	0.6	0.43	-0.17	1.58	1.58	2	2	0	2100	2100	0
7/8/2024 23:50	57401	SPAN_T1	0	0	0	0	0	0	-0.45	-0.64	1	1	0	600	600	0
7/8/2024 23:50	44801	EDAN_T2	1	1	0	0.8	0.7	-0.1	0.82	0.85	0	0	0	0	0	0
7/9/2024 4:08	65901	SAKR_T2	1	1	0	8.5	8.4	-0.1	-1.17	-1.21	2	2	0	1500	1500	0
7/9/2024 6:39	24902	WHHA_T1	1	1	0	0.9	0.7	-0.2	0.81	0.81	0	0	0	0	0	0
7/9/2024 6:53	10603	BGL_T1	0	0	0	0	0	0	-0.21	-0.11	0	0	0	0	0	0
7/9/2024 6:55	43304	WATS_T2	0	1	1	0	0.9	0.9	-0.51	-0.5	0	0	0	0	0	0
7/9/2024 6:56	43402	BENT_T1	0	0	0	0	0	0	-0.73	-0.73	1	1	0	900	900	0
7/9/2024 7:02	13501	MCMI_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
7/9/2024 7:06	67501	WEWI_T1	0	0	0	0	0	0	-0.21	-0.4	1	1	0	600	600	0
7/9/2024 7:06	67505	WEWI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 7:08	16301	ALPA_T1	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
7/9/2024 7:08	67501	WEWI_T1	0	0	0	0	0	0	-0.21	-0.4	1	1	0	600	600	0
7/9/2024 7:08	67505	WEWI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 7:10	67505	WEWI_T1	0	1	1	0	0	0	0.55	0.5	1	1	0	900	900	0
7/9/2024 7:15	63305	GREE_T1	0	0	0	0	0	0	-1.53	-1.42	1	1	0	900	900	0
7/9/2024 7:16	63305	GREE_T1	0	0	0	0	0	0	-1.53	-1.42	1	1	0	900	900	0
7/9/2024 7:17	64902	MILL_T2	0	0	0	0	0	0	-0.86	-0.77	1	1	0	900	900	0
7/9/2024 7:20	15204	SFAR_T2	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
7/9/2024 7:21	13904	SEID_T1	0	9	9	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 7:21	13905	SEID_T1	0	0	0	0	0	0	-0.67	-0.66	1	1	0	1200	1200	0
7/9/2024 7:31	13503	MCMI_T2	65	33	-32	0.22	0.18	-0.04	-0.81	-0.79	0	0	0	0	0	0
7/9/2024 7:33	12606	MACA_T1	15	26	11	0.31	1.12	0.81	0	0	0	0	0	0	0	0
7/9/2024 7:33	12601	MACA_T1	0	1	1	0	0	0	1.22	1.25	0	0	0	0	0	0
7/9/2024 7:38	29402	BELT_T1	1	1	0	6.2	6.5	0.3	0	0	0	0	0	0	0	0
7/9/2024 7:38	45602	WOOL_T1	0	0	0	0	0	0	1.92	2.01	0	0	0	0	0	0
7/9/2024 7:46	23401	HONE_T2	0	10	10	0	0.2	0.2	-0.2	-0.07	0	0	0	0	0	0
7/9/2024 7:49	67001	STHI_T2	0	1	1	0	0.1	0.1	0.37	0.37	0	0	0	0	0	0
7/9/2024 7:49	67002	STHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 7:52	55101	WERT_T1	0	0	0	0	0	0	-3.04	-2.85	8	8	0	6600	6600	0
7/9/2024 7:52	24902	WHHA_T1	2	6	4	0.7	0.5	-0.2	0.84	0.86	0	0	0	0	0	0
7/9/2024 7:53	55101	WERT_T1	0	0	0	0	0	0	-1.52	-1.43	4	4	0	3300	3300	0
7/9/2024 8:02	13503	MCMI_T2	9	16	7	0.12	0.16	0.04	-0.78	-0.77	0	0	0	0	0	0
7/9/2024 8:02	58401	MORO_T1	0	1	1	0	0	0	-3.97	-2.66	4	2	-2	2400	1200	-1200
7/9/2024 8:07	21203	ECAR_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
7/9/2024 8:08	43504	WWIL_T1	1	1	0	0.8	0.2	-0.6	0.88	0.89	0	0	0	0	0	0
7/9/2024 8:08	43505	WWIL_T1	1	1	0	1.9	2.2	0.3	0	0	0	0	0	0	0	0
7/9/2024 8:10	44801	EDAN_T2	1	1	0	1.3	1	-0.3	0.88	0.91	0	0	0	0	0	0
7/9/2024 8:13	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 8:24	43304	WATS_T2	0	0	0	0	0	0	-0.43	-0.4	1	1	0	600	600	0
7/9/2024 8:29	40101	HUNT_T2	41	19	-22	0.42	0.45	0.03	-0.24	-0.53	0	0	0	0	0	0
7/9/2024 8:30	55405	SHER_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
7/9/2024 8:41	20401	ASHF_T2	2	4	2	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
7/9/2024 8:41	20403	ASHF_T2	3	6	3	1.13	1.3	0.17	2.08	0.94	0	0	0	0	0	0
7/9/2024 8:42	61101	BERK_T5	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
7/9/2024 8:43	20401	ASHF_T2	2	4	2	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
7/9/2024 8:43	20403	ASHF_T2	3	6	3	1.13	1.3	0.17	2.08	0.94	0	0	0	0	0	0
7/9/2024 8:44	29402	BELT_T1	1	4	3	7.2	2.5	-4.7	0	0	0	0	0	0	0	0
7/9/2024 8:45	13503	MCMI_T2	3	2	-1	0.23	0.4	0.17	-0.7	-0.7	0	0	0	0	0	0
7/9/2024 8:47	13503	MCMI_T2	3	2	-1	0.23	0.4	0.17	-0.7	-0.7	0	0	0	0	0	0
7/9/2024 8:48	13503	MCMI_T2	3	2	-1	0.23	0.4	0.17	-0.7	-0.7	0	0	0	0	0	0
7/9/2024 8:49	41903	REED_T1	4	4	0	0.73	1.1	0.37	0	0	0	0	0	0	0	0
7/9/2024 8:49	41902	REED_T1	0	0	0	0	0	0	1.09	1.07	0	0	0	0	0	0
7/9/2024 8:55	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 8:55	46206	DANV_T2	67	64	-3	0.99	0.79	-0.2	2.83	2.82	1	1	0	1200	1200	0
7/9/2024 8:56	67901	WNHO_T2	2	3	1	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
7/9/2024 8:56	67902	WNHO_T2	0	0	0	0	0	0	0.92	0.9	2	2	0	2100	2100	0
7/9/2024 8:57	56803	BENV_T1	0	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0
7/9/2024 8:57	56801	BENV_T1	8	9	1	0.6	0.42	-0.18	-0.43	-0.38	1	1	0	600	600	0
7/9/2024 8:59	52402	GRPA_T2	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
7/9/2024 8:59	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 8:59	52403	GRPA_T2	3	13	10	0.27	0.7	0.43	0.1	0.15	0	0	0	0	0	0
7/9/2024 9:00	45802	HEGI_T2	172	164	-8	1.06	0.63	-0.43	0.81	0.86	2	2	0	1200	1200	0
7/9/2024 9:03	45802	HEGI_T2	172	164	-8	1.06	0.63	-0.43	0.81	0.86	2	2	0	1200	1200	0
7/9/2024 9:09	61102	BERK_T5	0	0	0	0	0	0	0.87	1.01	1	1	0	300	300	0
7/9/2024 9:10	61102	BERK_T5	0	0	0	0	0	0	0.87	1.01	1	1	0	300	300	0
7/9/2024 9:11	61102	BERK_T5	0	0	0	0	0	0	0.87	1.01	1	1	0	300	300	0
7/9/2024 9:15	20601	GRWO_T2	149	175	26	0.83	0.61	-0.22	1.02	1.05	0	0	0	0	0	0
7/9/2024 9:20	67201	TEHI_T1	1	6	5	1.2	1.7	0.5	0	0	0	0	0	0	0	0
7/9/2024 9:20	67203	TEHI_T1	1	8	7	0.4	0.94	0.54	2.03	2.52	4	4	0	3000	3000	0
7/9/2024 9:23	55101	WERT_T1	2	6	4	0.1	0	-0.1	-1.75	-1.5	4	4	0	3300	3300	0
7/9/2024 9:24	60801	BUCK_T1	8	1	-7	0.21	0.3	0.09	0.32	0.48	0	0	0	0	0	0
7/9/2024 9:24	60802	BUCK_T2	64	51	-13	0.43	0.42	-0.01	0.58	0.51	0	0	0	0	0	0
7/9/2024 9:24	60803	BUCK_T1	17	14	-3	0.8	0.58	-0.22	0	0	0	0	0	0	0	0
7/9/2024 9:25	56802	BENV_T2	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
7/9/2024 9:28	22903	HARW_T1	10	22	12	0.36	0.53	0.17	0	0	0	0	0	0	0	0
7/9/2024 9:28	22905	HARW_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 9:28	56802	BENV_T2	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/9/2024 9:28	22901	HARW_T1	0	8	8	0	0.33	0.33	-0.12	-0.15	1	1	0	1200	1200	0
7/9/2024 9:31	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 9:31	52402	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/9/2024 9:31	52403	GRPA_T2	10	68	58	0.88	0.71	-0.17	0	0	0	0	0	0	0	0
7/9/2024 9:31	52404	GRPA_T2	0	0	0	0	0	0	0.37	0.28	0	0	0	0	0	0
7/9/2024 9:32	52402	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/9/2024 9:32	52404	GRPA_T2	0	0	0	0	0	0	0.37	0.28	0	0	0	0	0	0
7/9/2024 9:32	52403	GRPA_T2	10	68	58	0.88	0.71	-0.17	0	0	0	0	0	0	0	0
7/9/2024 9:32	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 9:33	13503	MCMI_T2	3	3	0	0.27	0.5	0.23	-0.58	-0.6	0	0	0	0	0	0
7/9/2024 9:34	64201	KINZ_T1	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
7/9/2024 9:34	64204	KINZ_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
7/9/2024 9:34	64203	KINZ_T1	3	7	4	1.7	3.15	1.45	0.38	0.33	3	3	0	2100	2100	0
7/9/2024 9:35	64203	KINZ_T1	3	7	4	1.7	3.15	1.45	0.38	0.33	3	3	0	2100	2100	0
7/9/2024 9:35	64201	KINZ_T1	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
7/9/2024 9:35	64204	KINZ_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
7/9/2024 9:41	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 9:41	55101	WERT_T1	0	9	9	0	0.2	0.2	-1.5	-1.59	4	4	0	3300	3300	0
7/9/2024 9:42	20403	ASHF_T2	6	6	0	0.6	0.15	-0.45	1.04	1.13	0	0	0	0	0	0
7/9/2024 9:42	20402	ASHF_T2	3	8	5	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/9/2024 9:42	20401	ASHF_T2	4	5	1	1.1	1.13	0.03	0	0	0	0	0	0	0	0
7/9/2024 9:43	44301	BEAV_T2	5	7	2	1.9	1.1	-0.8	0.39	0.52	2	2	0	1500	1500	0
7/9/2024 9:43	20601	GRWO_T2	99	207	108	0.61	0.91	0.3	1.13	1.12	0	0	0	0	0	0
7/9/2024 9:44	22901	HARW_T1	6	20	14	0.33	0.35	0.02	-0.15	0.06	1	1	0	1200	1200	0
7/9/2024 9:44	22903	HARW_T1	21	22	1	0.53	0.56	0.03	0	0	0	0	0	0	0	0
7/9/2024 9:44	22905	HARW_T1	0	13	13	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 9:48	47001	HUGH_T2	3	3	0	6.97	7.8	0.83	-1.11	-2.18	2	2	0	1800	1800	0
7/9/2024 9:49	64101	REFR_T1	4	11	7	0.63	0.73	0.1	0.55	0.56	0	0	0	0	0	0
7/9/2024 9:50	64101	REFR_T1	4	11	7	0.63	0.73	0.1	1.09	1.13	0	0	0	0	0	0
7/9/2024 9:51	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 9:51	56501	ROCK_T2	1	59	58	1.4	0.18	-1.22	-1.19	-1.14	0	0	0	0	0	0
7/9/2024 9:51	64101	REFR_T1	4	11	7	0.63	0.73	0.1	1.13	-0.04	0	0	0	0	0	0
7/9/2024 9:52	64101	REFR_T1	4	11	7	0.63	0.73	0.1	0.56	-0.02	0	0	0	0	0	0
7/9/2024 9:53	60504	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 9:53	64101	REFR_T1	4	11	7	0.63	0.73	0.1	1.13	-0.04	0	0	0	0	0	0
7/9/2024 9:53	60502	NMAN_T2	0	1	1	0	0	0	0.51	0.61	0	0	0	0	0	0
7/9/2024 9:53	60501	NMAN_T2	3	3	0	3.57	3.03	-0.54	0	0	0	0	0	0	0	0
7/9/2024 9:53	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.82	-0.83	0	0	0	0	0	0
7/9/2024 9:54	64203	KINZ_T1	3	9	6	2.23	1.36	-0.87	0.63	0.45	3	3	0	2100	2100	0
7/9/2024 9:54	64204	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/9/2024 9:54	64201	KINZ_T1	3	1	-2	0.43	0	-0.43	0	0	0	0	0	0	0	0
7/9/2024 9:55	64201	KINZ_T1	3	1	-2	0.43	0	-0.43	0	0	0	0	0	0	0	0
7/9/2024 9:55	64203	KINZ_T1	3	9	6	2.23	1.36	-0.87	0.63	0.45	3	3	0	2100	2100	0
7/9/2024 9:55	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.82	-0.83	0	0	0	0	0	0
7/9/2024 9:55	64204	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/9/2024 9:59	20601	GRWO_T2	175	278	103	0.91	0.98	0.07	1.12	1.13	0	0	0	0	0	0
7/9/2024 9:59	46801	HEPB_T2	2	2	0	1.1	1	-0.1	0.23	0.28	0	0	0	0	0	0
7/9/2024 9:59	46803	HEPB_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/9/2024 10:00	24901	WHHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 10:00	60504	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 10:00	42901	MIDD_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/9/2024 10:00	64204	KINZ_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/9/2024 10:00	60501	NMAN_T2	3	3	0	2.6	3.2	0.6	0	0	0	0	0	0	0	0
7/9/2024 10:00	64201	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/9/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.52	-0.13	0	0	0	0	0	0
7/9/2024 10:00	64203	KINZ_T1	6	15	9	1.18	1.03	-0.15	0.63	0.45	3	3	0	2100	2100	0
7/9/2024 10:00	60502	NMAN_T2	0	1	1	0	0	0	0.51	0.61	0	0	0	0	0	0
7/9/2024 10:00	56501	ROCK_T2	2	115	113	0.5	0.24	-0.26	-1.14	-2.37	0	0	0	0	0	0
7/9/2024 10:00	56504	ROCK_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/9/2024 10:00	24902	WHHA_T1	11	31	20	0.61	0.47	-0.14	1	1.04	0	0	0	0	0	0
7/9/2024 10:00	42903	MIDD_T2	0	0	0	0	0	0	0.9	1.1	1	1	0	1200	1200	0
7/9/2024 10:00	42902	MIDD_T2	2	1	-1	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
7/9/2024 10:07	61102	BERK_T5	0	0	0	0	0	0	1.04	1.21	1	1	0	300	300	0
7/9/2024 10:08	67201	TEHI_T1	6	18	12	0.78	0.43	-0.35	0	0	0	0	0	0	0	0
7/9/2024 10:08	55103	WERT_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/9/2024 10:08	41903	REED_T1	4	4	0	0.63	1.1	0.47	0	0	0	0	0	0	0	0
7/9/2024 10:08	41902	REED_T1	1	22	21	0.1	0.31	0.21	1.45	1.53	0	0	0	0	0	0
7/9/2024 10:08	67203	TEHI_T1	4	10	6	1.08	0.83	-0.25	2.56	2.62	4	4	0	3000	3000	0
7/9/2024 10:08	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 10:08	24901	WHHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 10:08	24902	WHHA_T1	11	31	20	0.61	0.47	-0.14	1.04	1.1	0	0	0	0	0	0
7/9/2024 10:08	55101	WERT_T1	8	20	12	0.41	0.22	-0.19	-1.53	-1.53	4	4	0	3300	3300	0
7/9/2024 10:09	61102	BERK_T5	0	0	0	0	0	0	1.04	1.21	1	1	0	300	300	0
7/9/2024 10:09	55101	WERT_T1	8	20	12	0.41	0.22	-0.19	-3.06	-3.07	8	8	0	6600	6600	0
7/9/2024 10:09	55103	WERT_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/9/2024 10:10	55103	WERT_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/9/2024 10:10	55101	WERT_T1	8	20	12	0.41	0.22	-0.19	-6.11	-6.13	16	16	0	13200	13200	0
7/9/2024 10:10	56801	BENV_T1	0	2	2	0	0.4	0.4	-0.21	-0.18	1	1	0	600	600	0
7/9/2024 10:10	56803	BENV_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/9/2024 10:11	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 10:11	60201	ATGL_T2	0	0	0	0	0	0	-0.23	-0.17	2	2	0	900	900	0
7/9/2024 10:11	20403	ASHF_T2	2	9	7	0.15	0.35	0.2	1.1	1.42	0	0	0	0	0	0
7/9/2024 10:11	44801	EDAN_T2	1	2	1	1.6	1.5	-0.1	1.04	1.04	0	0	0	0	0	0
7/9/2024 10:11	20401	ASHF_T2	4	5	1	1.13	1.28	0.15	0	0	0	0	0	0	0	0
7/9/2024 10:12	20403	ASHF_T2	2	9	7	0.15	0.35	0.2	1.1	1.42	0	0	0	0	0	0
7/9/2024 10:12	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 10:12	16301	ALPA_T1	0	0	0	0	0	0	0.76	0.85	0	0	0	0	0	0
7/9/2024 10:12	20401	ASHF_T2	4	5	1	1.13	1.28	0.15	0	0	0	0	0	0	0	0
7/9/2024 10:12	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 10:13	23401	HONE_T2	9	8	-1	0.54	0.2	-0.34	0.13	0.19	0	0	0	0	0	0
7/9/2024 10:13	29401	BELT_T1	0	10	10	0	0.5	0.5	0	0	0	0	0	0	0	0
7/9/2024 10:13	45802	HEGI_T2	66	169	103	0.6	0.8	0.2	0.86	0.91	2	2	0	1200	1200	0
7/9/2024 10:13	29402	BELT_T1	1	1	0	8.2	8.4	0.2	0	0	0	0	0	0	0	0
7/9/2024 10:14	46203	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 10:14	46206	DANV_T2	53	57	4	0.78	0.65	-0.13	2.72	2.03	1	2	1	1200	2100	900
7/9/2024 10:14	46204	DANV_T2	2	3	1	1.05	0	-1.05	0	0	0	0	0	0	0	0
7/9/2024 10:14	47001	HUGH_T2	3	3	0	7.7	7.5	-0.2	-2.27	-2.17	2	2	0	1800	1800	0
7/9/2024 10:15	22901	HARW_T1	22	24	2	1.07	0.57	-0.5	0.16	0.02	1	1	0	1200	1200	0
7/9/2024 10:15	22903	HARW_T1	16	25	9	0.46	1.45	0.99	0	0	0	0	0	0	0	0
7/9/2024 10:15	55405	SHER_T1	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
7/9/2024 10:15	22905	HARW_T1	11	14	3	0.45	0.24	-0.21	0	0	0	0	0	0	0	0
7/9/2024 10:17	45802	HEGI_T2	163	173	10	0.86	0.83	-0.03	0.86	0.91	2	2	0	1200	1200	0
7/9/2024 10:18	13503	MCMI_T2	3	5	2	0.43	0.42	-0.01	-0.6	-0.58	0	0	0	0	0	0
7/9/2024 10:19	64101	REFR_T1	4	10	6	0.73	0.8	0.07	-0.04	0.11	0	0	0	0	0	0
7/9/2024 10:19	47101	MARL_T1	24	26	2	0.98	0.64	-0.34	-1.52	-1.37	2	2	0	1200	1200	0
7/9/2024 10:20	47101	MARL_T1	24	26	2	0.98	0.64	-0.34	-1.52	-1.37	2	2	0	1200	1200	0
7/9/2024 10:21	64101	REFR_T1	4	10	6	0.73	0.8	0.07	0.06	0.03	0	0	0	0	0	0
7/9/2024 10:21	64201	KINZ_T1	0	2	2	0	0.65	0	0	0	0	0	0	0	0	0
7/9/2024 10:21	64204	KINZ_T1	1	8	7	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/9/2024 10:21	64203	KINZ_T1	8	25	17	0.93	0.81	-0.12	0.48	0.49	3	3	0	2100	2100	0
7/9/2024 10:21	64202	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 10:22	43304	WATS_T2	2	3	1	0.2	0.1	-0.1	-0.57	-0.51	2	2	0	1200	1200	0
7/9/2024 10:22	64101	REFR_T1	4	10	6	0.73	0.8	0.07	0.11	0.06	0	0	0	0	0	0
7/9/2024 10:22	61102	BERK_T5	0	0	0	0	0	0	1.21	0.97	1	1	0	300	300	0
7/9/2024 10:23	67601	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 10:24	20403	ASHF_T2	2	12	10	0.35	0.66	0.31	1.42	1.33	0	0	0	0	0	0
7/9/2024 10:24	20401	ASHF_T2	5	6	1	1.9	1.28	-0.62	0	0	0	0	0	0	0	0
7/9/2024 10:24	20402	ASHF_T2	3	3	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/9/2024 10:24	67605	WARW_T1	0	0	0	0	0	0	-0.77	-0.7	0	0	0	0	0	0
7/9/2024 10:24	64101	REFR_T1	4	10	6	0.73	0.8	0.07	0.06	0.03	0	0	0	0	0	0
7/9/2024 10:25	67602	WARW_T2	0	0	0	0	0	0	0.33	0.19	2	2	0	1500	1500	0
7/9/2024 10:25	43304	WATS_T2	2	3	1	0.2	0.1	-0.1	-0.29	-0.26	1	1	0	600	600	0
7/9/2024 10:25	43402	BENT_T1	1	0	-1	0.4	0	-0.4	-0.4	-0.39	1	1	0	900	900	0
7/9/2024 10:26	43402	BENT_T1	1	0	-1	0.4	0	-0.4	-0.81	-0.78	2	2	0	1800	1800	0
7/9/2024 10:26	67901	WNHO_T2	2	4	2	1.3	1.7	0.4	0	0	0	0	0	0	0	0
7/9/2024 10:26	67902	WNHO_T2	0	0	0	0	0	0	1.02	0.99	2	2	0	2100	2100	0
7/9/2024 10:28	11804	FRAN_T1	242	246	4	1.3	1.32	0.02	1.59	1.6	0	0	0	0	0	0
7/9/2024 10:28	11802	FRAN_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/9/2024 10:30	40101	HUNT_T2	29	82	53	0.33	0.49	0.16	-0.23	-0.16	0	0	0	0	0	0
7/9/2024 10:30	46803	HEPB_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
7/9/2024 10:30	46801	HEPB_T2	2	2	0	0.95	0.75	-0.2	0.28	0.45	0	0	0	0	0	0
7/9/2024 10:33	26401	INOR_T1	7	42	35	1.66	1.16	-0.5	1.62	1.74	0	0	0	0	0	0
7/9/2024 10:33	26402	INOR_T1	19	44	25	0.41	0.42	0.01	0	0	0	0	0	0	0	0
7/9/2024 10:35	52501	PROG_T1	0	0	0	0	0	0	-0.56	-0.6	2	2	0	600	600	0
7/9/2024 10:35	13503	MCMI_T2	5	3	-2	0.38	0.53	0.15	-0.58	-0.55	0	0	0	0	0	0
7/9/2024 10:36	40603	PIGR_T1	3	8	5	0.3	0.33	0.03	0	0	0	0	0	0	0	0
7/9/2024 10:36	40602	PIGR_T1	1	2	1	1.4	1.6	0.2	-0.9	-0.86	1	1	0	600	600	0
7/9/2024 10:36	40601	PIGR_T1	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
7/9/2024 10:37	64101	REFR_T1	10	10	0	0.84	0.8	-0.04	0.06	0.08	0	0	0	0	0	0
7/9/2024 10:38	67201	TEHI_T1	17	24	7	0.55	0.71	0.16	0.71	0.67	1	1	0	600	600	0
7/9/2024 10:38	43304	WATS_T2	3	1	-2	0.83	0	-0.83	-0.51	-0.25	2	2	0	1200	1200	0
7/9/2024 10:38	67203	TEHI_T1	10	25	15	0.79	0.87	0.08	0	0	0	0	0	0	0	0
7/9/2024 10:39	46101	MACI_T2	0	0	0	0	0	0	-0.47	-0.46	2	2	0	2400	2400	0
7/9/2024 10:39	21203	ECAR_T1	0	0	0	0	0	0	0.43	0.39	0	0	0	0	0	0
7/9/2024 10:39	21201	ECAR_T1	2	2	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
7/9/2024 10:41	44301	BEAV_T2	1	20	19	1.5	0.65	-0.85	0.65	0.64	2	2	0	1500	1500	0
7/9/2024 10:42	44301	BEAV_T2	1	20	19	1.5	0.65	-0.85	0.65	0.64	2	2	0	1500	1500	0
7/9/2024 10:44	52404	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 10:44	52403	GRPA_T2	21	73	52	0.59	0.61	0.02	0.19	0.24	0	0	0	0	0	0
7/9/2024 10:44	52402	GRPA_T2	1	2	1	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
7/9/2024 10:44	52401	GRPA_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 10:45	52403	GRPA_T2	30	91	61	0.6	0.6	0	0	0	0	0	0	0	0	0
7/9/2024 10:45	52401	GRPA_T2	0	8	8	0	0.51	0.51	0	0	0	0	0	0	0	0
7/9/2024 10:45	52404	GRPA_T2	0	4	4	0	0.1	0.1	1.02	0.8	0	0	0	0	0	0
7/9/2024 10:45	52402	GRPA_T2	2	1	-1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
7/9/2024 10:46	40901	JESH_T1	3	1	-2	0.87	1.5	0.63	0	0	0	0	0	0	0	0
7/9/2024 10:46	40902	JESH_T1	0	2	2	0	0.2	0.2	-0.65	-0.5	3	3	0	1800	1800	0
7/9/2024 10:46	52402	GRPA_T2	2	1	-1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
7/9/2024 10:46	52404	GRPA_T2	0	4	4	0	0.1	0.1	0.51	0.4	0	0	0	0	0	0
7/9/2024 10:46	52401	GRPA_T2	0	8	8	0	0.51	0.51	0	0	0	0	0	0	0	0
7/9/2024 10:46	52403	GRPA_T2	30	91	61	0.6	0.6	0	0	0	0	0	0	0	0	0
7/9/2024 10:47	13503	MCMI_T2	3	3	0	0.37	0.43	0.06	-0.55	-0.5	0	0	0	0	0	0
7/9/2024 10:49	56501	ROCK_T2	67	9	-58	0.23	0.33	0.1	-2.26	-2.27	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/9/2024 10:49	43201	MVIL_T2	12	43	31	0.63	0.47	-0.16	0	0	0	0	0	0	0	0
7/9/2024 10:49	47401	PENS_T1	11	20	9	0.89	0.53	-0.36	0.5	0.52	0	0	0	0	0	0
7/9/2024 10:49	43202	MVIL_T2	0	1	1	0	0.1	0.1	-0.31	-0.31	0	0	0	0	0	0
7/9/2024 10:49	47403	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/9/2024 10:50	54701	NEBL_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
7/9/2024 10:50	47403	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/9/2024 10:50	47401	PENS_T1	11	20	9	0.89	0.53	-0.36	0.5	0.52	0	0	0	0	0	0
7/9/2024 10:51	65503	MOJO_T2	4	8	4	0.4	0.44	0.04	0.54	0.5	1	1	0	900	900	0
7/9/2024 10:52	43201	MVIL_T2	12	43	31	0.63	0.47	-0.16	0	0	0	0	0	0	0	0
7/9/2024 10:52	43202	MVIL_T2	0	1	1	0	0.1	0.1	-0.31	-0.33	0	0	0	0	0	0
7/9/2024 10:53	56501	ROCK_T2	67	9	-58	0.23	0.33	0.1	-2.27	-2.2	0	0	0	0	0	0
7/9/2024 10:54	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 10:54	45602	WOOL_T1	0	1	1	0	0.2	0.2	0.78	0.82	0	0	0	0	0	0
7/9/2024 10:54	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 10:54	56802	BENV_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
7/9/2024 10:54	55101	WERT_T1	60	71	11	0.58	0.54	-0.04	-1.51	-1.36	4	4	0	3300	3300	0
7/9/2024 10:55	13503	MOMI_T2	3	3	0	0.37	0.43	0.06	-0.5	-0.52	0	0	0	0	0	0
7/9/2024 10:55	45602	WOOL_T1	0	1	1	0	0.2	0.2	0.78	0.82	0	0	0	0	0	0
7/9/2024 10:56	66505	SMAN_T2	18	307	289	0.32	0.35	0.03	0.62	1.07	4	4	0	2300	2300	0
7/9/2024 10:56	66503	SMAN_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
7/9/2024 10:56	66504	SMAN_T2	1	8	7	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/9/2024 10:57	56802	BENV_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
7/9/2024 10:58	56803	BENV_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/9/2024 10:58	56801	BENV_T1	3	7	4	0.53	0.68	0.15	-0.16	-0.13	1	1	0	600	600	0
7/9/2024 10:59	63802	HEMP_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
7/9/2024 10:59	63804	HEMP_T1	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
7/9/2024 10:59	44301	BEAV_T2	6	33	27	0.7	0.39	-0.31	0.64	0.54	2	2	0	1500	1500	0
7/9/2024 11:01	52404	GRPA_T2	3	9	6	0.13	0.23	0.1	0	0	0	0	0	0	0	0
7/9/2024 11:01	52401	GRPA_T2	7	9	2	0.71	0.39	-0.32	0	0	0	0	0	0	0	0
7/9/2024 11:01	52403	GRPA_T2	72	131	59	0.61	1.2	0.59	0	0	0	0	0	0	0	0
7/9/2024 11:01	52402	GRPA_T2	1	2	1	0.5	0.7	0.2	-0.49	-0.48	0	0	0	0	0	0
7/9/2024 11:02	52403	GRPA_T2	72	131	59	0.61	1.2	0.59	0	0	0	0	0	0	0	0
7/9/2024 11:02	52401	GRPA_T2	7	9	2	0.71	0.39	-0.32	0	0	0	0	0	0	0	0
7/9/2024 11:02	52404	GRPA_T2	3	9	6	0.13	0.23	0.1	0	0	0	0	0	0	0	0
7/9/2024 11:02	52402	GRPA_T2	1	2	1	0.5	0.7	0.2	-0.49	-0.48	0	0	0	0	0	0
7/9/2024 11:04	65205	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 11:05	52006	LING_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 11:05	52002	LING_T2	0	9	9	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 11:05	52004	LING_T2	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
7/9/2024 11:06	67703	WERN_T2	0	1	1	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/9/2024 11:06	47401	PENS_T1	19	11	-8	0.79	0.51	-0.28	0.48	0.56	0	0	0	0	0	0
7/9/2024 11:06	65001	NEFF_T2	0	0	0	0	0	0	-0.35	-0.26	1	1	0	1200	1200	0
7/9/2024 11:07	67703	WERN_T2	0	1	1	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/9/2024 11:07	47401	PENS_T1	19	11	-8	0.79	0.51	-0.28	0.96	1.13	0	0	0	0	0	0
7/9/2024 11:09	60201	ATGL_T2	0	0	0	0	0	0	0.04	-0.01	2	2	0	900	900	0
7/9/2024 11:10	21204	ECAR_T2	1	2	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 11:10	64101	REFR_T1	10	10	0	1.56	1.52	-0.04	0.09	0.14	0	0	0	0	0	0
7/9/2024 11:10	21206	ECAR_T2	50	98	48	0.63	0.84	0.21	0.95	0.91	0	0	0	0	0	0
7/9/2024 11:12	44801	EDAN_T2	2	10	8	1.75	1.5	-0.25	1.08	1.09	0	0	0	0	0	0
7/9/2024 11:17	64204	KINZ_T1	108	186	78	0.56	0.52	-0.04	0	0	0	0	0	0	0	0
7/9/2024 11:17	64202	KINZ_T1	54	54	0	1.09	0.76	-0.33	0	0	0	0	0	0	0	0
7/9/2024 11:17	64201	KINZ_T1	55	41	-14	0.34	0.7	0.36	-1.31	-1.37	5	5	0	3300	3300	0
7/9/2024 11:17	64203	KINZ_T1	236	179	-57	0.73	0.73	0	0	0	0	0	0	0	0	0
7/9/2024 11:19	64204	KINZ_T1	108	186	78	0.56	0.52	-0.04	0	0	0	0	0	0	0	0
7/9/2024 11:19	53502	EVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/9/2024 11:19	64201	KINZ_T1	55	41	-14	0.34	0.7	0.36	0	0	0	0	0	0	0	0
7/9/2024 11:19	53501	EVIL_T2	2	4	2	0.45	0.55	0.1	-0.69	-0.7	4	4	0	2300	2300	0
7/9/2024 11:19	64202	KINZ_T1	54	54	0	1.09	0.76	-0.33	0	0	0	0	0	0	0	0
7/9/2024 11:19	64203	KINZ_T1	236	179	-57	0.73	0.73	0	0.78	0.68	3	3	0	2100	2100	0
7/9/2024 11:20	64202	KINZ_T1	54	54	0	1.09	0.76	-0.33	0	0	0	0	0	0	0	0
7/9/2024 11:20	64201	KINZ_T1	55	41	-14	0.34	0.7	0.36	0	0	0	0	0	0	0	0
7/9/2024 11:20	64203	KINZ_T1	236	179	-57	0.73	0.73	0	0.78	0.68	3	3	0	2100	2100	0
7/9/2024 11:20	59202	THOM_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
7/9/2024 11:20	64204	KINZ_T1	108	186	78	0.56	0.52	-0.04	0	0	0	0	0	0	0	0
7/9/2024 11:22	43301	WATS_T2	0	0	0	0	0	0	0.1	0.1	1	1	0	900	900	0
7/9/2024 11:22	44601	SALE_T2	0	0	0	0	0	0	0.46	0.41	1	1	0	600	600	0
7/9/2024 11:22	43304	WATS_T2	2	4	2	0.45	0.3	-0.15	-0.42	-0.45	1	1	0	600	600	0
7/9/2024 11:23	43301	WATS_T2	0	0	0	0	0	0	0.31	0.31	3	3	0	2700	2700	0
7/9/2024 11:23	43304	WATS_T2	2	4	2	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
7/9/2024 11:24	47401	PENS_T1	7	10	3	0.41	0.69	0.28	0.56	0.55	0	0	0	0	0	0
7/9/2024 11:24	47402	PENS_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
7/9/2024 11:25	66504	SMAN_T2	2	8	6	1.5	0.5	-1	0.17	0.15	0	0	0	0	0	0
7/9/2024 11:25	43301	WATS_T2	0	0	0	0	0	0	0.1	0.1	1	1	0	900	900	0
7/9/2024 11:25	43304	WATS_T2	2	4	2	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
7/9/2024 11:25	44601	SALE_T2	0	0	0	0	0	0	0.46	0.41	1	1	0	600	600	0
7/9/2024 11:25	66503	SMAN_T2	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/9/2024 11:25	66505	SMAN_T2	306	74	-232	0.54	0.48	-0.06	0	0	0	0	0	0	0	0
7/9/2024 11:26	61101	BERK_T5	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
7/9/2024 11:26	42701	AUGU_T1	15	31	16	0.5	0.25	-0.25	0	0	2	2	0	1800	1800	0
7/9/2024 11:26	43304	WATS_T2	2	4	2	0.45	0.3	-0.15	-0.42	-0.45	1	1	0	600	600	0
7/9/2024 11:26	43301	WATS_T2	0	0	0	0	0	0	0.1	0.1	1	1	0	900	900	0
7/9/2024 11:27	66504	SMAN_T2	2	8	6	1.5	0.5	-1	0.34	0.29	0	0	0	0	0	0
7/9/2024 11:27	66503	SMAN_T2	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/9/2024 11:27	66505	SMAN_T2	306	74	-232	0.54	0.48	-0.06	0	0	0	0	0	0	0	0
7/9/2024 11:28	46203	DANV_T2	1	1	0	0.7	1.6	0.9	-1.16	-1.08	0	0	0	0	0	0
7/9/2024 11:28	46204	DANV_T2	3	26	23	1.2	0.24	-0.96	0	0	0	0	0	0	0	0
7/9/2024 11:28	46206	DANV_T2	47	66	19	0.56	0.7	0.14	0	0	0	0	0	0	0	0
7/9/2024 11:29	46203	DANV_T2	1	1	0	0.7	1.6	0.9	-1.16	-1.08	0	0	0	0	0	0
7/9/2024 11:29	46206	DANV_T2	47	66	19	0.56	0.7	0.14	0	0	0	0	0	0	0	0
7/9/2024 11:29	55408	SHER_T2	2	2	0	0.65	0.65	0	-0.39	-0.37	1	1	0	1200	1200	0
7/9/2024 11:29	46204	DANV_T2	3	26	23	1.2	0.24	-0.96	0	0	0	0	0	0	0	0
7/9/2024 11:30	29402	BELT_T1	2	2	0	3.85	7.5	3.65	0	0	0	0	0	0	0	0
7/9/2024 11:30	29401	BELT_T1	34	29	-5	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
7/9/2024 11:31	47101	MARL_T1	46	114	68	0.82	1.15	0.33	-1.06	-1.09	2	2	0	1200	1200	0
7/9/2024 11:32	23201	HIRU_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/9/2024 11:32	23202	HIRU_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
7/9/2024 11:32	52002	LING_T2	9	15	6	0.4	0.4	0	0.16	0.19	0	0	0	0	0	0
7/9/2024 11:32	52006	LING_T2	5	2	-3	0.44	0	-0.44	0	0	0	0	0	0	0	0
7/9/2024 11:33	47101	MARL_T1	46	114	68	0.82	1.15	0.33	-0.53	-0.55	1	1	0	600	600	0
7/9/2024 11:35	52002	LING_T2	9	15	6	0.4	0.4	0	0.16	0.19	0	0	0	0	0	0
7/9/2024 11:35	52006	LING_T2	5	2	-3	0.44	0	-0.44	0	0	0	0	0	0	0	0
7/9/2024 11:36	47101	MARL_T1	46	114	68	0.82	1.15	0.33	-1.06	-1.09	2	2	0	1200	1200	0
7/9/2024 11:37	65604	QIVL_T2	1	2	1	0.3	0.5	0.2	1.03	1.05	0	0	0	0	0	0
7/9/2024 11:38	67605	WARW_T1	1	1	0	0.4	0.1	-0.3	-0.59	-0.53	0	0	0	0	0	0
7/9/2024 11:39	67605	WARW_T1	1	1	0	0.4	0.1	-0.3	-1.17	-1.05	0	0	0	0	0	0
7/9/2024 11:39	67602	WARW_T2	0	0	0	0	0	0	0.47	0.5	2	2	0	1500	1500	0
7/9/2024 11:40	64203	KINZ_T1	88	413	325	0.74	0.75	0.01	0.82	0.93	3	3	0	2100	2100	0
7/9/2024 11:40	60201	ATGL_T2	0	0	0	0	0	0	-0.17	-0.08	4	4	0	1800	1800	0
7/9/2024 11:40	64202	KINZ_T1	51	56	5	0.75	1.03	0.28	0	0	0	0	0	0	0	0
7/9/2024 11:40	64204	KINZ_T1	26	267	241	0.53	1.05	0.52	0	0	0	0	0	0	0	0
7/9/2024 11:40	64201	KINZ_T1	6	123	117	0.7	0.44	-0.26	0	0	0	0	0	0	0	0
7/9/2024 11:41	64203	KINZ_T1	88	413	325	0.74	0.75	0.01	0.82	0.93	3	3	0	2100	2100	0
7/9/2024 11:41	64202	KINZ_T1	51	56	5	0.75	1.03	0.28	0	0	0	0	0	0	0	0
7/9/2024 11:41	64201	KINZ_T1	6	123	117	0.7	0.44	-0.26	0	0	0	0	0	0	0	0
7/9/2024 11:41	64204	KINZ_T1	26	267	241	0.53	1.05	0.52	0	0	0	0	0	0	0	0
7/9/2024 11:41	67602	WARW_T2	0	0	0	0	0	0	0.47	0.5	2	2	0	1500	1500	0
7/9/2024 11:42	11101	EGYP_T1	8	8	0	1.81	1.66	-0.15	0	0	0	0	0	0	0	0
7/9/2024 11:42	11104	EGYP_T1	6	5	-1	1.97	2.18	0.21	0.36	0.32	1	1	0	900	900	0
7/9/2024 11:42	11102	EGYP_T1	18	36	18	1.08	1.14	0.06	0	0	0	0	0	0	0	0
7/9/2024 11:44	64801	MONE_T2	21	1	-20	0.42	0.1	-0.32	0.21	0.22	0	0	0	0	0	0
7/9/2024 11:44	11102	EGYP_T1	18	36	18	1.08	1.14	0.06	0	0	0	0	0	0	0	0
7/9/2024 11:44	11101	EGYP_T1	8	8	0	1.81	1.66	-0.15	0	0	0	0	0	0	0	0
7/9/2024 11:44	11104	EGYP_T1	6	5	-1	1.97	2.18	0.21	0.36	0.32	1	1	0	900	900	0
7/9/2024 11:44	64802	MONE_T2	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
7/9/2024 11:46	52006	LING_T2	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
7/9/2024 11:46	52004	LING_T2	0	0	0	0	0	0	0.59	0.63	0	0	0	0	0	0
7/9/2024 11:46	52002	LING_T2	13	18	5	0.68	0.36	-0.32	0	0	0	0	0	0	0	0
7/9/2024 11:47	46302	ROHR_T1	4	3	-1	0.65	0.4	-0.25	0.4	0.44	0	0	0	0	0	0
7/9/2024 11:49	66504	SMAN_T2	8	8	0	0.78	0.29	-0.49	0	0	0	0	0	0	0	0
7/9/2024 11:49	66503	SMAN_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 11:49	66505	SMAN_T2	21	43	22	0.46	0.38	-0.08	0.72	0.54	4	4	0	2300	2300	0
7/9/2024 11:50	47402	PENS_T1	2	2	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
7/9/2024 11:50	47401	PENS_T1	6	11	5	0.67	0.87	0.2	0.55	0.56	0	0	0	0	0	0
7/9/2024 11:50	47403	PENS_T1	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
7/9/2024 11:51	58001	WCAR_T1	0	2	2	0	0.1	0.1	-0.73	-0.58	0	0	0	0	0	0
7/9/2024 11:51	58003	WCAR_T1	1	3	2	0.6	0.37	-0.23	0	0	0	0	0	0	0	0
7/9/2024 11:53	20402	ASHF_T2	43	47	4	0.87	0.78	-0.09	0	0	0	0	0	0	0	0
7/9/2024 11:53	20403	ASHF_T2	65	68	3	0.6	0.6	0	1.45	1.34	0	0	0	0	0	0
7/9/2024 11:53	20401	ASHF_T2	9	11	2	1.73	1.35	-0.38	0	0	0	0	0	0	0	0
7/9/2024 11:55	20403	ASHF_T2	65	68	3	0.6	0.6	0	1.45	1.34	0	0	0	0	0	0
7/9/2024 11:55	20401	ASHF_T2	9	11	2	1.73	1.35	-0.38	0	0	0	0	0	0	0	0
7/9/2024 11:55	20402	ASHF_T2	43	47	4	0.87	0.78	-0.09	0	0	0	0	0	0	0	0
7/9/2024 11:56	55408	SHER_T2	2	1	-1	0.7	1.8	1.1	-0.3	-0.28	1	1	0	1200	1200	0
7/9/2024 11:57	46206	DANV_T2	65	60	-5	0.72	0.69	-0.03	0	0	0	0	0	0	0	0
7/9/2024 11:57	46204	DANV_T2	20	24	4	0.27	0.19	-0.08	0	0	0	0	0	0	0	0
7/9/2024 11:57	46203	DANV_T2	1	2	1	1.6	0.1	-1.5	-1.05	-1.97	0	0	0	0	0	0
7/9/2024 11:58	63501	HEID_TBK1-2	0	0	0	0	0	0	0.47	0.58	1	1	0	900	900	0
7/9/2024 11:58	64802	MONE_T2	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
7/9/2024 11:58	46206	DANV_T2	65	60	-5	0.72	0.69	-0.03	0	0	0	0	0	0	0	0
7/9/2024 11:58	46204	DANV_T2	20	24	4	0.27	0.19	-0.08	0	0	0	0	0	0	0	0
7/9/2024 11:58	46203	DANV_T2	1	2	1	1.6	0.1	-1.5	-2.1	-3.94	0	0	0	0	0	0
7/9/2024 11:58	64801	MONE_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/9/2024 12:01	12701	MACU_T1	2	18	16	0.3	0.83	0.53	-0.51	-0.54	1	1	0	1200	1200	0
7/9/2024 12:01	12704	MACU_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 12:01	64203	KINZ_T1	413	378	-35	0.77	0.7	-0.07	0.93	0.76	3	3	0	2100	2100	0
7/9/2024 12:01	28403	HART_T2	0	0	0	0	0	0	-0.32	-0.27	1	1	0	900	900	0
7/9/2024 12:01	64201	KINZ_T1	123	113	-10	0.49	0.42	-0.07	0	0	0	0	0	0	0	0
7/9/2024 12:01	64202	KINZ_T1	56	58	2	1.27	1.14	-0.13	0	0	0	0	0	0	0	0
7/9/2024 12:01	64204	KINZ_T1	266	293	27	1.23	0.56	-0.67	0	0	0	0	0	0	0	0
7/9/2024 12:02	64202	KINZ_T1	56	58	2	1.27	1.14	-0.13	0	0	0	0	0	0	0	0
7/9/2024 12:02	64203	KINZ_T1	413	378	-35	0.77	0.7	-0.07	0.93	0.76	3	3	0	2100	2100	0
7/9/2024 12:02	64204	KINZ_T1	266	293	27	1.23	0.56	-0.67	0	0	0	0	0	0	0	0
7/9/2024 12:02	64201	KINZ_T1	123	113	-10	0.49	0.42	-0.07	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/9/2024 12:04	57304	MOAL_T2	19	27	8	0.6	0.72	0.12	-0.24	-0.17	0	0	0	0	0	0
7/9/2024 12:04	47104	MARL_T1	0	18	18	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 12:04	12704	MACU_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 12:04	57303	MOAL_T2	1	1	0	8.7	8.5	-0.2	0	0	0	0	0	0	0	0
7/9/2024 12:04	57302	MOAL_T2	0	4	4	0	1.17	1.17	0	0	0	0	0	0	0	0
7/9/2024 12:04	57301	MOAL_T2	0	2	2	0	2	2	0	0	0	0	0	0	0	0
7/9/2024 12:04	12701	MACU_T1	2	18	16	0.3	0.83	0.53	-0.51	-0.54	1	1	0	1200	1200	0
7/9/2024 12:04	47101	MARL_T1	114	215	101	1.09	1.12	0.03	-0.51	-0.26	1	1	0	600	600	0
7/9/2024 12:04	56501	ROCK_T2	2	5	3	0.35	0.46	0.11	0	0	0	0	0	0	0	0
7/9/2024 12:04	56503	ROCK_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 12:04	56504	ROCK_T2	6	16	10	0.43	0.19	-0.24	0.53	0.56	0	0	0	0	0	0
7/9/2024 12:06	47101	MARL_T1	114	215	101	1.09	1.12	0.03	-0.51	-0.26	1	1	0	600	600	0
7/9/2024 12:06	64101	REFR_T1	13	14	1	3.02	2.44	-0.58	0.25	-0.29	0	0	0	0	0	0
7/9/2024 12:06	47104	MARL_T1	0	18	18	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 12:07	58001	WCAR_T1	2	0	-2	0.1	0	-0.1	-0.65	-0.64	0	0	0	0	0	0
7/9/2024 12:07	58003	WCAR_T1	3	3	0	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
7/9/2024 12:08	43301	WATS_T2	2	2	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/9/2024 12:08	56503	ROCK_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 12:08	43304	WATS_T2	5	3	-2	0.4	0.2	-0.2	-0.66	-0.64	1	1	0	600	600	0
7/9/2024 12:08	58003	WCAR_T1	3	3	0	0.37	0.3	-0.07	0.83	0.82	1	1	0	600	600	0
7/9/2024 12:08	56504	ROCK_T2	6	16	10	0.43	0.19	-0.24	0.56	0.59	0	0	0	0	0	0
7/9/2024 12:08	56501	ROCK_T2	2	5	3	0.35	0.46	0.11	0	0	0	0	0	0	0	0
7/9/2024 12:08	58001	WCAR_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/9/2024 12:09	20402	ASHF_T2	39	48	9	0.61	0.86	0.25	0	0	0	0	0	0	0	0
7/9/2024 12:09	20403	ASHF_T2	53	105	52	0.68	0.71	0.03	1.34	1.54	0	0	0	0	0	0
7/9/2024 12:09	60201	ATGL_T2	0	1	1	0	0	0	-0.11	-0.14	2	2	0	900	900	0
7/9/2024 12:09	20401	ASHF_T2	9	8	-1	1.04	0.92	-0.12	0	0	0	0	0	0	0	0
7/9/2024 12:10	43301	WATS_T2	2	2	0	0.4	0.2	-0.2	0.12	0.17	1	1	0	900	900	0
7/9/2024 12:10	43304	WATS_T2	5	3	-2	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/9/2024 12:11	43301	WATS_T2	2	2	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/9/2024 12:11	43304	WATS_T2	5	3	-2	0.4	0.2	-0.2	-0.66	-0.64	1	1	0	600	600	0
7/9/2024 12:15	45801	HEGI_T1	0	0	0	0	0	0	0.12	0.13	1	1	0	900	900	0
7/9/2024 12:16	41303	FISH_T1	1	1	0	2.2	1.3	-0.9	0	0	0	0	0	0	0	0
7/9/2024 12:16	64904	MILL_T1	0	2	2	0	0	0	-0.31	-0.26	0	0	0	0	0	0
7/9/2024 12:16	41301	FISH_T1	3	3	0	0.67	1.37	0.7	-0.25	-0.19	0	0	0	0	0	0
7/9/2024 12:19	24105	EHAZ_T1	4	4	0	6.9	7	0.1	0	0	0	0	0	0	0	0
7/9/2024 12:19	24103	EHAZ_T1	0	0	0	0	0	0	-0.92	-0.95	0	0	0	0	0	0
7/9/2024 12:19	24102	EHAZ_T1	4	14	10	1.03	0.79	-0.24	0	0	0	0	0	0	0	0
7/9/2024 12:19	24101	EHAZ_T1	26	39	13	1.96	1.64	-0.32	0	0	0	0	0	0	0	0
7/9/2024 12:21	16406	MOPO_T1	0	0	0	0	0	0	0.36	0.41	1	1	0	1200	1200	0
7/9/2024 12:21	16402	MOPO_T1	6	7	1	0.2	0.66	0.46	0	0	0	0	0	0	0	0
7/9/2024 12:22	59102	WALK_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/9/2024 12:22	59101	WALK_T2	0	21	21	0	0.75	0.75	1.27	1.2	2	3	1	1200	1800	600
7/9/2024 12:23	65901	SAKR_T2	4	16	12	1.38	1.77	0.39	0.13	0.14	2	2	0	1500	1500	0
7/9/2024 12:23	61101	BERK_T5	1	5	4	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/9/2024 12:23	65902	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 12:23	16302	ALPA_T2	1	0	-1	0.1	0	-0.1	0.9	0.91	0	0	0	0	0	0
7/9/2024 12:23	60701	BREC_T1	29	58	29	0.98	0.97	-0.01	0.42	0.35	2	2	0	1200	1200	0
7/9/2024 12:23	61102	BERK_T5	0	0	0	0	0	0	0.22	0.42	2	2	0	1200	1200	0
7/9/2024 12:24	65901	SAKR_T2	4	16	12	1.38	1.77	0.39	0.13	0.14	2	2	0	1500	1500	0
7/9/2024 12:24	47401	PENS_T1	11	8	-3	0.69	0.51	-0.18	0.55	0.54	0	0	0	0	0	0
7/9/2024 12:24	47403	PENS_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
7/9/2024 12:24	60803	BUCK_T1	2	0	-2	0.1	0	-0.1	-0.09	-0.07	1	1	0	600	600	0
7/9/2024 12:24	65902	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 12:24	16302	ALPA_T2	1	0	-1	0.1	0	-0.1	0.45	0.45	0	0	0	0	0	0
7/9/2024 12:24	59101	WALK_T2	0	21	21	0	0.75	0.75	1.27	1.2	2	3	1	1200	1800	600
7/9/2024 12:24	47402	PENS_T1	2	5	3	0.2	0.55	0.35	0	0	0	0	0	0	0	0
7/9/2024 12:24	59102	WALK_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/9/2024 12:25	58003	WCAR_T1	3	1	-2	0.3	0.3	0	0.82	0.87	1	1	0	600	600	0
7/9/2024 12:25	58001	WCAR_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/9/2024 12:25	60701	BREC_T1	29	58	29	0.98	0.97	-0.01	0.42	0.35	2	2	0	1200	1200	0
7/9/2024 12:25	16302	ALPA_T2	1	0	-1	0.1	0	-0.1	0.45	0.45	0	0	0	0	0	0
7/9/2024 12:26	59101	WALK_T2	0	21	21	0	0.75	0.75	1.27	1.2	2	3	1	1200	1800	600
7/9/2024 12:26	60701	BREC_T1	29	58	29	0.98	0.97	-0.01	0.42	0.35	2	2	0	1200	1200	0
7/9/2024 12:26	59102	WALK_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/9/2024 12:27	59102	WALK_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/9/2024 12:27	59101	WALK_T2	0	21	21	0	0.75	0.75	2.54	2.4	4	6	2	2400	3600	1200
7/9/2024 12:28	60803	BUCK_T1	2	0	-2	0.1	0	-0.1	-0.09	-0.07	1	1	0	600	600	0
7/9/2024 12:29	46205	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 12:29	46204	DANV_T2	18	25	7	0.57	0.18	-0.39	0	0	0	0	0	0	0	0
7/9/2024 12:29	20601	GRWO_T2	413	101	-312	1.4	0.72	-0.68	0.15	0.19	1	1	0	1200	1200	0
7/9/2024 12:29	46203	DANV_T2	1	1	0	0.1	1.8	1.7	-1.87	-1.91	0	0	0	0	0	0
7/9/2024 12:29	46206	DANV_T2	60	57	-3	0.76	0.8	0.04	0	0	0	0	0	0	0	0
7/9/2024 12:30	20603	GRWO_T2	0	0	0	0	0	0	-1.4	-1.41	2	2	0	2100	2100	0
7/9/2024 12:30	20601	GRWO_T2	72	110	38	0.71	0.88	0.17	0	0	0	0	0	0	0	0
7/9/2024 12:31	52002	LING_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
7/9/2024 12:31	20601	GRWO_T2	72	110	38	0.71	0.88	0.17	0.15	0.19	1	1	0	1200	1200	0
7/9/2024 12:31	52004	LING_T2	1	1	0	0.4	0.1	-0.3	0.64	0.65	0	0	0	0	0	0
7/9/2024 12:31	52006	LING_T2	5	6	1	0.42	0.73	0.31	0	0	0	0	0	0	0	0
7/9/2024 12:31	46801	HEPB_T2	3	8	5	0.7	0.6	-0.1	0.56	0.57	0	0	0	0	0	0
7/9/2024 12:33	13103	NHAM_T2	8	4	-4	0.29	0.35	0.06	0	0	0	0	0	0	0	0
7/9/2024 12:33	53803	MBRG_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
7/9/2024 12:33	13105	NHAM_T2	197	76	-121	0.94	0.75	-0.19	-0.82	-1.55	1	1	0	1200	1200	0
7/9/2024 12:34	47101	MARL_T1	195	380	185	1.09	1	-0.09	-0.34	-0.22	1	1	0	600	600	0
7/9/2024 12:34	64101	REFR_T1	11	12	1	2.44	2.18	-0.26	0.29	0.24	0	0	0	0	0	0
7/9/2024 12:34	47104	MARL_T1	17	25	8	0.54	0.91	0.37	0	0	0	0	0	0	0	0
7/9/2024 12:35	65903	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 12:35	65902	SAKR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/9/2024 12:35	58201	NEWV_T1	1	11	10	2.1	0	-2.1	0	0	0	0	0	0	0	0
7/9/2024 12:35	67703	WERN_T2	3	5	2	0.27	0.4	0.13	-0.01	-0.01	1	1	0	900	900	0
7/9/2024 12:35	58202	NEWV_T1	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
7/9/2024 12:35	65901	SAKR_T2	3	20	17	1.77	0.56	-1.21	0.13	0.14	2	2	0	1500	1500	0
7/9/2024 12:37	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/9/2024 12:37	64101	REFR_T1	11	12	1	2.44	2.18	-0.26	-0.24	-0.3	0	0	0	0	0	0
7/9/2024 12:37	59101	WALK_T2	13	24	11	0.75	0.67	-0.08	2.4	1.69	6	8	2	3600	4800	1200
7/9/2024 12:38	60201	ATGL_T2	0	1	1	0	0.1	0.1	-0.14	-0.07	2	2	0	900	900	0
7/9/2024 12:38	65903	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 12:38	43304	WATS_T2	3	14	11	0.8	0.8	0	-0.64	-0.6	1	1	0	600	600	0
7/9/2024 12:38	43301	WATS_T2	1	5	4	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/9/2024 12:38	65902	SAKR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/9/2024 12:38	65901	SAKR_T2	3	20	17	1.77	0.56	-1.21	0.14	0.13	2	2	0	1500	1500	0
7/9/2024 12:38	64101	REFR_T1	11	12	1	2.44	2.18	-0.26	-0.24	-0.3	0	0	0	0	0	0
7/9/2024 12:39	65903	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 12:39	65901	SAKR_T2	3	20	17	1.77	0.56	-1.21	0.14	0.13	2	2	0	1500	1500	0
7/9/2024 12:39	65902	SAKR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/9/2024 12:40	59101	WALK_T2	13	24	11	0.75	0.67	-0.08	1.2	0.84	3	4	1	1800	2400	600
7/9/2024 12:40	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/9/2024 12:41	66505	SMAN_T2	99	284	185	0.4	0.64	0.24	0.99	0.8	4	4	0	2300	2300	0
7/9/2024 12:41	60201	ATGL_T2	0	1	1	0	0.1	0.1	-0.14	-0.07	2	2	0	900	900	0
7/9/2024 12:41	66504	SMAN_T2	7	8	1	0.4	0.73	0.33	0	0	0	0	0	0	0	0
7/9/2024 12:41	66503	SMAN_T2	16	17	1	0.4	0.48	0.08	0	0	0	0	0	0	0	0
7/9/2024 12:44	60801	BUCK_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
7/9/2024 12:44	64202	KINZ_T1	58	100	42	1.5	1.54	0.04	0	0	0	0	0	0	0	0
7/9/2024 12:44	64204	KINZ_T1	236	731	495	0.6	0.73	0.13	0	0	0	0	0	0	0	0
7/9/2024 12:44	64201	KINZ_T1	112	576	464	0.46	0.67	0.21	0	0	0	0	0	0	0	0
7/9/2024 12:44	64203	KINZ_T1	377	1096	719	0.78	0.84	0.06	0.87	1	3	3	0	2100	2100	0
7/9/2024 12:45	24101	EHAZ_T1	36	39	3	1.72	1.45	-0.27	0	0	0	0	0	0	0	0
7/9/2024 12:45	64203	KINZ_T1	738	1096	358	0.84	0.92	0.08	0.87	1	3	3	0	2100	2100	0
7/9/2024 12:45	24105	EHAZ_T1	4	4	0	7	6.83	-0.17	0	0	0	0	0	0	0	0
7/9/2024 12:45	24104	EHAZ_T1	0	1	1	0	0.1	0.1	-1.71	-1.63	1	1	0	1200	1200	0
7/9/2024 12:45	64204	KINZ_T1	483	733	250	0.73	1.01	0.28	0	0	0	0	0	0	0	0
7/9/2024 12:45	64202	KINZ_T1	72	100	28	1.54	1.67	0.13	0	0	0	0	0	0	0	0
7/9/2024 12:45	64201	KINZ_T1	370	606	236	0.67	1.21	0.54	0	0	0	0	0	0	0	0
7/9/2024 12:45	24102	EHAZ_T1	14	7	-7	0.81	1.28	0.47	0	0	0	0	0	0	0	0
7/9/2024 12:50	64101	REFR_T1	11	15	4	2.7	1.99	-0.71	-0.24	-0.3	0	0	0	0	0	0
7/9/2024 12:52	59101	WALK_T2	20	15	-5	0.68	0.9	0.22	0.84	0.48	4	4	0	2400	2400	0
7/9/2024 12:54	16302	ALPA_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
7/9/2024 12:54	60803	BUCK_T1	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
7/9/2024 12:54	60801	BUCK_T1	0	0	0	0	0	0	0.42	-0.02	0	1	1	0	600	600
7/9/2024 12:54	60201	ATGL_T2	1	1	0	0.4	0	-0.4	-0.07	0.06	2	2	0	900	900	0
7/9/2024 12:55	14403	SSLA_T1	3	7	4	0.9	0.7	-0.2	1.3	1.35	1	1	0	600	600	0
7/9/2024 12:55	14404	SSLA_T1	29	33	4	0.92	0.93	0.01	0	0	0	0	0	0	0	0
7/9/2024 12:55	14401	SSLA_T1	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/9/2024 12:55	64101	REFR_T1	11	15	4	2.7	1.99	-0.71	-0.3	-0.31	0	0	0	0	0	0
7/9/2024 12:55	60801	BUCK_T1	0	0	0	0	0	0	0.42	-0.02	0	1	1	0	600	600
7/9/2024 12:55	60803	BUCK_T1	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
7/9/2024 12:56	61102	BERK_T5	0	0	0	0	0	0	-0.76	-0.87	3	3	0	2400	2400	0
7/9/2024 12:56	56801	BENV_T1	5	9	4	0.36	0.46	0.1	0.38	0.23	4	4	0	2400	2400	0
7/9/2024 12:56	56803	BENV_T1	8	13	5	1	0.99	-0.01	0	0	0	0	0	0	0	0
7/9/2024 12:56	61101	BERK_T5	5	8	3	0.24	0.1	-0.14	0	0	0	0	0	0	0	0
7/9/2024 12:56	67902	WNHO_T2	2	2	0	4.75	0	-4.75	0	0	0	0	0	0	0	0
7/9/2024 12:56	67901	WNHO_T2	4	5	1	1.55	1.13	-0.42	-0.22	0.06	2	2	0	2100	2100	0
7/9/2024 12:56	16302	ALPA_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
7/9/2024 12:57	56801	BENV_T1	5	9	4	0.36	0.46	0.1	0.38	0.23	4	4	0	2400	2400	0
7/9/2024 12:57	56803	BENV_T1	8	13	5	1	0.99	-0.01	0.18	0.19	1	1	0	600	600	0
7/9/2024 12:57	60101	COCA_T1	1	1	0	0.3	0.6	0.3	0	0.04	1	1	0	1200	1200	0
7/9/2024 12:58	56801	BENV_T1	5	9	4	0.36	0.46	0.1	0.09	0.06	1	1	0	600	600	0
7/9/2024 12:58	56803	BENV_T1	8	13	5	1	0.99	-0.01	0	0	0	0	0	0	0	0
7/9/2024 12:58	61102	BERK_T5	0	0	0	0	0	0	-0.76	-0.87	3	3	0	2400	2400	0
7/9/2024 12:58	61101	BERK_T5	5	8	3	0.24	0.1	-0.14	0	0	0	0	0	0	0	0
7/9/2024 12:59	60803	BUCK_T1	0	5	5	0	0.18	0.18	-0.06	-0.68	1	1	0	600	600	0
7/9/2024 12:59	56801	BENV_T1	5	9	4	0.36	0.46	0.1	0.75	0.45	8	8	0	4800	4800	0
7/9/2024 12:59	56803	BENV_T1	8	13	5	1	0.99	-0.01	0	0	0	0	0	0	0	0
7/9/2024 13:00	56801	BENV_T1	9	8	-1	0.44	0.3	-0.14	0.09	0.06	1	1	0	600	600	0
7/9/2024 13:00	56803	BENV_T1	11	14	3	1.01	1.37	0.36	0	0	0	0	0	0	0	0
7/9/2024 13:01	52401	GRPA_T2	49	59	10	0.57	0.56	-0.01	0	0	0	0	0	0	0	0
7/9/2024 13:01	52404	GRPA_T2	36	127	91	0.48	0.49	0.01	0	0	0	0	0	0	0	0
7/9/2024 13:01	52403	GRPA_T2	154	230	76	1.22	1.09	-0.13	0.28	0.29	0	0	0	0	0	0
7/9/2024 13:01	52402	GRPA_T2	16	56	40	0.63	0.49	-0.14	0	0	0	0	0	0	0	0
7/9/2024 13:03	64201	KINZ_T1	576	858	282	1.22	1.21	-0.01	-0.98	-1	5	5	0	3300	3300	0
7/9/2024 13:03	64203	KINZ_T1	1096	1209	113	1.14	0.93	-0.21	0	0	0	0	0	0	0	0
7/9/2024 13:03	64204	KINZ_T1	731	801	70	1.13	1.02	-0.11	0	0	0	0	0	0	0	0
7/9/2024 13:03	52403	GRPA_T2	154	230	76	1.22	1.09	-0.13	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/9/2024 13:03	52404	GRPA_T2	36	127	91	0.48	0.49	0.01	0.58	0.6	0	0	0	0	0	0
7/9/2024 13:03	64202	KINZ_T1	100	105	5	1.8	1.69	-0.11	0	0	0	0	0	0	0	0
7/9/2024 13:03	52401	GRPA_T2	49	59	10	0.57	0.56	-0.01	0	0	0	0	0	0	0	0
7/9/2024 13:03	52402	GRPA_T2	16	56	40	0.63	0.49	-0.14	0	0	0	0	0	0	0	0
7/9/2024 13:04	51702	OBER_T1	6	8	2	0.52	0.4	-0.12	-0.67	-0.67	1	1	0	600	600	0
7/9/2024 13:05	51702	OBER_T1	6	8	2	0.52	0.4	-0.12	-0.67	-0.67	1	1	0	600	600	0
7/9/2024 13:05	51704	OBER_T1	0	0	0	0	0	0	-2.37	-2.38	1	1	0	1200	1200	0
7/9/2024 13:06	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 13:06	56504	ROCK_T2	27	54	27	0.62	0.51	-0.11	0	0	0	0	0	0	0	0
7/9/2024 13:06	65902	SAKR_T2	1	3	2	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
7/9/2024 13:06	65903	SAKR_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/9/2024 13:06	56501	ROCK_T2	3	5	2	0.53	2.1	1.57	-1.92	-1.85	0	0	0	0	0	0
7/9/2024 13:06	65901	SAKR_T2	20	19	-1	0.62	0.97	0.35	0.2	0.26	2	2	0	1500	1500	0
7/9/2024 13:07	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 13:07	56501	ROCK_T2	3	5	2	0.53	2.1	1.57	-1.85	-1.87	0	0	0	0	0	0
7/9/2024 13:07	56504	ROCK_T2	27	54	27	0.62	0.51	-0.11	0	0	0	0	0	0	0	0
7/9/2024 13:07	51702	OBER_T1	6	8	2	0.52	0.4	-0.12	-1.33	-1.12	2	2	0	1200	1200	0
7/9/2024 13:07	67903	WNHO_T1	9	0	-9	0.58	0	-0.58	0	0	0	0	0	0	0	0
7/9/2024 13:07	67904	WNHO_T1	6	0	-6	0.62	0	-0.62	-1.55	-1.54	2	2	0	2100	2100	0
7/9/2024 13:08	65901	SAKR_T2	20	19	-1	0.62	0.97	0.35	0	0	0	0	0	0	0	0
7/9/2024 13:08	65902	SAKR_T2	1	3	2	0.7	0.1	-0.6	-0.52	-0.52	2	2	0	1200	1200	0
7/9/2024 13:08	57402	SPAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 13:08	45601	WOOL_T1	0	0	0	0	0	0	0.24	0.26	1	1	0	1200	1200	0
7/9/2024 13:08	51702	OBER_T1	6	8	2	0.52	0.4	-0.12	-0.67	-0.56	1	1	0	600	600	0
7/9/2024 13:08	56501	ROCK_T2	3	5	2	0.53	2.1	1.57	-1.85	-1.87	0	0	0	0	0	0
7/9/2024 13:08	40603	PIGR_T1	55	76	21	1.21	1	-0.21	0	0	0	0	0	0	0	0
7/9/2024 13:08	57404	SPAN_T2	4	13	9	0.2	0.6	0.4	-0.62	-0.58	1	1	0	1200	1200	0
7/9/2024 13:08	40601	PIGR_T1	12	25	13	0.43	0.36	-0.07	0.75	0.68	0	0	0	0	0	0
7/9/2024 13:08	60701	BREC_T1	50	64	14	0.85	1.4	0.55	0.68	0.49	2	2	0	1200	1200	0
7/9/2024 13:08	42201	SHEN_T2	0	1	1	0	0	0	0.17	0.2	1	1	0	600	600	0
7/9/2024 13:08	45602	WOOL_T1	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
7/9/2024 13:08	65903	SAKR_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/9/2024 13:08	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 13:08	56504	ROCK_T2	27	54	27	0.62	0.51	-0.11	0.66	0.72	0	0	0	0	0	0
7/9/2024 13:08	40602	PIGR_T1	6	22	16	0.62	0.59	-0.03	0	0	0	0	0	0	0	0
7/9/2024 13:09	56504	ROCK_T2	27	54	27	0.62	0.51	-0.11	0	0	0	0	0	0	0	0
7/9/2024 13:09	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 13:09	56501	ROCK_T2	3	5	2	0.53	2.1	1.57	-1.85	-1.87	0	0	0	0	0	0
7/9/2024 13:09	42201	SHEN_T2	0	1	1	0	0	0	0.17	0.2	1	1	0	600	600	0
7/9/2024 13:09	66201	SISP_T2	0	1	1	0	0.1	0.1	-1.2	-1.17	0	0	0	0	0	0
7/9/2024 13:09	60701	BREC_T1	50	64	14	0.85	1.4	0.55	0.68	0.49	2	2	0	1200	1200	0
7/9/2024 13:10	67902	WNHO_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/9/2024 13:10	14403	SSLA_T1	4	13	9	0.7	0.88	0.18	1.35	1.39	1	1	0	600	600	0
7/9/2024 13:10	14401	SSLA_T1	2	2	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/9/2024 13:10	60701	BREC_T1	50	64	14	0.85	1.4	0.55	0.68	0.49	2	2	0	1200	1200	0
7/9/2024 13:10	67901	WNHO_T2	5	4	-1	1.74	0.6	-1.14	0.06	0.01	2	2	0	2100	2100	0
7/9/2024 13:10	14404	SSLA_T1	28	43	15	1.05	0.87	-0.18	0	0	0	0	0	0	0	0
7/9/2024 13:11	14403	SSLA_T1	4	13	9	0.7	0.88	0.18	1.35	1.39	1	1	0	600	600	0
7/9/2024 13:11	14401	SSLA_T1	2	2	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/9/2024 13:11	67401	WAKE_T2	0	1	1	0	0	0	-0.8	-0.81	0	0	0	0	0	0
7/9/2024 13:11	67402	WAKE_T2	16	44	28	0.46	0.53	0.07	0	0	0	0	0	0	0	0
7/9/2024 13:11	14404	SSLA_T1	28	43	15	1.05	0.87	-0.18	0	0	0	0	0	0	0	0
7/9/2024 13:11	61701	ELIZ_T1	1	1	0	2.3	1.7	-0.6	0	0	0	0	0	0	0	0
7/9/2024 13:11	61703	ELIZ_T1	0	0	0	0	0	0	-2.21	-1.54	2	2	0	2100	2100	0
7/9/2024 13:13	20601	GRWO_T2	110	137	27	1.01	0.98	-0.03	0.2	0.24	1	1	0	1200	1200	0
7/9/2024 13:14	61701	ELIZ_T1	1	1	0	2.3	1.7	-0.6	0	0	0	0	0	0	0	0
7/9/2024 13:14	60701	BREC_T1	50	64	14	0.85	1.4	0.55	0.68	0.49	2	2	0	1200	1200	0
7/9/2024 13:14	61703	ELIZ_T1	0	0	0	0	0	0	-2.21	-1.54	2	2	0	2100	2100	0
7/9/2024 13:15	29401	BELT_T1	23	14	-9	0.36	0.41	0.05	0	0	0	0	0	0	0	0
7/9/2024 13:15	29402	BELT_T1	14	17	3	0.91	0.85	-0.06	0	0	0	0	0	0	0	0
7/9/2024 13:16	63403	HONY_T2	6	5	-1	0.2	0.28	0.08	-0.72	-0.72	1	1	0	600	600	0
7/9/2024 13:17	61701	ELIZ_T1	1	0	-1	2.3	1.7	-0.6	0	0	0	0	0	0	0	0
7/9/2024 13:17	61703	ELIZ_T1	0	0	0	0	0	0	-2.21	-1.54	2	2	0	2100	2100	0
7/9/2024 13:20	64101	REFR_T1	15	24	9	1.76	1.09	-0.67	-0.31	-0.26	0	0	0	0	0	0
7/9/2024 13:21	56503	ROCK_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/9/2024 13:21	56501	ROCK_T2	5	4	-1	1.98	2.73	0.75	0	0	0	0	0	0	0	0
7/9/2024 13:21	56504	ROCK_T2	47	49	2	0.58	0.59	0.01	0.66	0.72	0	0	0	0	0	0
7/9/2024 13:22	47101	MARL_T1	422	465	43	1.03	1.06	0.03	-0.41	-0.53	2	2	0	1200	1200	0
7/9/2024 13:22	64101	REFR_T1	15	24	9	1.76	1.09	-0.67	-0.26	-0.27	0	0	0	0	0	0
7/9/2024 13:22	47104	MARL_T1	25	32	7	0.72	0.6	-0.12	0	0	0	0	0	0	0	0
7/9/2024 13:22	56503	ROCK_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/9/2024 13:22	67603	WARW_T1	0	0	0	0	0	0	-1.01	-1.05	0	0	0	0	0	0
7/9/2024 13:22	67605	WARW_T1	1	3	2	0.5	0.6	0.1	-0.42	-0.43	0	0	0	0	0	0
7/9/2024 13:22	56501	ROCK_T2	5	4	-1	1.98	2.73	0.75	-1.87	-1.88	0	0	0	0	0	0
7/9/2024 13:22	56504	ROCK_T2	47	49	2	0.58	0.59	0.01	0	0	0	0	0	0	0	0
7/9/2024 13:23	56504	ROCK_T2	47	49	2	0.58	0.59	0.01	0	0	0	0	0	0	0	0
7/9/2024 13:23	67603	WARW_T1	0	0	0	0	0	0	-1.01	-1.05	0	0	0	0	0	0
7/9/2024 13:23	67605	WARW_T1	1	3	2	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/9/2024 13:23	56503	ROCK_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/9/2024 13:23	56501	ROCK_T2	5	4	-1	1.98	2.73	0.75	-1.87	-1.88	0	0	0	0	0	0
7/9/2024 13:24	56501	ROCK_T2	5	4	-1	1.98	2.73	0.75	-1.87	-1.88	0	0	0	0	0	0
7/9/2024 13:24	20402	ASHF_T2	73	107	34	0.85	0.86	0.01	0	0	0	0	0	0	0	0
7/9/2024 13:24	20401	ASHF_T2	32	45	13	0.68	0.59	-0.09	0	0	0	0	0	0	0	0
7/9/2024 13:24	20403	ASHF_T2	151	146	-5	0.99	0.75	-0.24	1.66	1.67	0	0	0	0	0	0
7/9/2024 13:24	56504	ROCK_T2	47	49	2	0.58	0.59	0.01	0	0	0	0	0	0	0	0
7/9/2024 13:24	56503	ROCK_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/9/2024 13:25	56503	ROCK_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/9/2024 13:25	67605	WARW_T1	1	3	2	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/9/2024 13:25	56504	ROCK_T2	47	49	2	0.58	0.59	0.01	0	0	0	0	0	0	0	0
7/9/2024 13:25	67603	WARW_T1	0	0	0	0	0	0	-2.03	-2.1	0	0	0	0	0	0
7/9/2024 13:25	56501	ROCK_T2	5	4	-1	1.98	2.73	0.75	-1.87	-1.88	0	0	0	0	0	0
7/9/2024 13:27	61306	EARL_T1	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
7/9/2024 13:27	61303	EARL_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 13:27	61304	EARL_T1	0	23	23	0	0.38	0.38	0	0	0	0	0	0	0	0
7/9/2024 13:28	20402	ASHF_T2	73	107	34	0.85	0.86	0.01	0	0	0	0	0	0	0	0
7/9/2024 13:28	20403	ASHF_T2	151	146	-5	0.99	0.75	-0.24	1.66	1.67	0	0	0	0	0	0
7/9/2024 13:28	20401	ASHF_T2	32	45	13	0.68	0.59	-0.09	0	0	0	0	0	0	0	0
7/9/2024 13:29	56504	ROCK_T2	47	49	2	0.58	0.59	0.01	0	0	0	0	0	0	0	0
7/9/2024 13:29	56501	ROCK_T2	5	4	-1	1.98	2.73	0.75	-1.87	-1.88	0	0	0	0	0	0
7/9/2024 13:29	56503	ROCK_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/9/2024 13:30	40101	HUNT_T2	432	472	40	0.84	0.6	-0.24	-0.21	-0.19	0	0	0	0	0	0
7/9/2024 13:30	64701	LITI_T1	22	26	4	1.86	2.19	0.33	0.28	0.08	1	1	0	900	900	0
7/9/2024 13:30	64704	LITI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/9/2024 13:33	40101	HUNT_T2	432	472	40	0.84	0.6	-0.24	-0.21	-0.19	0	0	0	0	0	0
7/9/2024 13:33	47101	MARL_T1	366	497	131	1.06	1.05	-0.01	-0.2	-0.26	1	1	0	600	600	0
7/9/2024 13:33	47104	MARL_T1	32	31	-1	0.86	0.62	-0.24	0	0	0	0	0	0	0	0
7/9/2024 13:34	54701	NEBL_T1	18	29	11	0.32	0.36	0.04	0	0	1	1	0	600	600	0
7/9/2024 13:35	65604	QVIL_T2	1	0	-1	0.4	0	-0.4	0.39	0.38	0	0	0	0	0	0
7/9/2024 13:35	65601	QVIL_T2	0	8	8	0	0.3	0.3	0	0	0	0	0	0	0	0
7/9/2024 13:36	46302	ROHR_T1	5	9	4	0.6	0.73	0.13	0	0	0	0	0	0	0	0
7/9/2024 13:36	46301	ROHR_T1	7	4	-3	0.24	0.5	0.26	0.53	0.54	0	0	0	0	0	0
7/9/2024 13:37	43302	WATS_T2	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
7/9/2024 13:37	14404	SSLA_T1	43	44	1	0.91	1.11	0.2	0	0	0	0	0	0	0	0
7/9/2024 13:37	14403	SSLA_T1	11	17	6	0.96	1.26	0.3	1.41	1.45	1	1	0	600	600	0
7/9/2024 13:37	54701	NEBL_T1	18	29	11	0.32	0.36	0.04	0	0	1	1	0	600	600	0
7/9/2024 13:37	43301	WATS_T2	4	6	2	0.63	0.42	-0.21	0.22	0.22	1	1	0	900	900	0
7/9/2024 13:37	12403	MILF_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/9/2024 13:37	12402	MILF_T1	169	164	-5	2.48	2.33	-0.15	0.78	0.81	1	1	0	1200	1200	0
7/9/2024 13:37	57404	SPAN_T2	6	2	-4	0.48	0.5	0.02	0.63	0.63	1	1	0	1200	1200	0
7/9/2024 13:37	14401	SSLA_T1	1	1	0	1.2	0.2	-1	0	0	0	0	0	0	0	0
7/9/2024 13:37	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/9/2024 13:37	56504	ROCK_T2	49	23	-26	0.62	0.32	-0.3	0.7	0.77	0	0	0	0	0	0
7/9/2024 13:37	43304	WATS_T2	25	61	36	0.58	0.46	-0.12	0	0	0	0	0	0	0	0
7/9/2024 13:37	56501	ROCK_T2	3	5	2	2.97	2.13	-0.84	0	0	0	0	0	0	0	0
7/9/2024 13:37	12401	MILF_T1	66	69	3	0.7	0.67	-0.03	0	0	0	0	0	0	0	0
7/9/2024 13:39	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/9/2024 13:39	43304	WATS_T2	25	61	36	0.58	0.46	-0.12	0	0	0	0	0	0	0	0
7/9/2024 13:39	43301	WATS_T2	4	6	2	0.63	0.42	-0.21	0.22	0.22	1	1	0	900	900	0
7/9/2024 13:39	43302	WATS_T2	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
7/9/2024 13:39	56504	ROCK_T2	49	23	-26	0.62	0.32	-0.3	0	0	0	0	0	0	0	0
7/9/2024 13:39	56501	ROCK_T2	3	5	2	2.97	2.13	-0.84	-1.88	-1.93	0	0	0	0	0	0
7/9/2024 13:40	63801	HEMP_T1	0	0	0	0	0	0	-0.49	-0.6	2	2	0	1800	1800	0
7/9/2024 13:40	63804	HEMP_T1	3	3	0	3.2	4.7	1.5	0	0	0	0	0	0	0	0
7/9/2024 13:41	63804	HEMP_T1	3	3	0	3.2	4.7	1.5	0	0	0	0	0	0	0	0
7/9/2024 13:41	63801	HEMP_T1	0	0	0	0	0	0	-0.24	-0.3	1	1	0	900	900	0
7/9/2024 13:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/9/2024 13:42	60201	ATGL_T2	0	0	0	0	0	0	0.08	0.04	2	2	0	900	900	0
7/9/2024 13:42	41602	CLEV_T1	84	108	24	1.04	1.12	0.08	0	0	0	0	0	0	0	0
7/9/2024 13:45	26401	INOR_T1	130	136	6	1.3	1.23	-0.07	1.67	1.83	0	0	0	0	0	0
7/9/2024 13:45	64704	LITI_T1	1	1	0	0.8	0	-0.8	1.12	1.17	1	1	0	600	600	0
7/9/2024 13:45	61304	EARL_T1	19	11	-8	0.37	0.22	-0.15	-0.66	-0.68	1	1	0	600	600	0
7/9/2024 13:45	54505	ENOL_T2	0	0	0	0	0	0	-0.34	-0.32	1	1	0	600	600	0
7/9/2024 13:45	26402	INOR_T1	175	177	2	1.27	0.89	-0.38	0	0	0	0	0	0	0	0
7/9/2024 13:45	64701	LITI_T1	22	26	4	2.19	2.25	0.06	0	0	0	0	0	0	0	0
7/9/2024 13:46	40101	HUNT_T2	461	375	-86	0.84	0.6	-0.24	-0.19	-0.64	0	0	0	0	0	0
7/9/2024 13:46	63804	HEMP_T1	3	2	-1	3.2	8.5	5.3	0	0	0	0	0	0	0	0
7/9/2024 13:46	63801	HEMP_T1	0	0	0	0	0	0	-0.24	-0.3	1	1	0	900	900	0
7/9/2024 13:47	54506	ENOL_T2	0	0	0	0	0	0	0.17	0.17	1	0	-1	600	0	-600
7/9/2024 13:51	64203	KINZ_T1	1173	1232	59	1.13	1.14	0.01	0.65	0.77	3	3	0	2100	2100	0
7/9/2024 13:51	13105	NHAM_T2	73	103	30	0.91	0.59	-0.32	-1.57	-1.56	1	1	0	1200	1200	0
7/9/2024 13:51	13103	NHAM_T2	5	7	2	0.48	0.8	0.32	0	0	0	0	0	0	0	0
7/9/2024 13:51	13102	NHAM_T2	3	3	0	1.43	0.6	-0.83	0	0	0	0	0	0	0	0
7/9/2024 13:51	64204	KINZ_T1	774	874	100	1.62	1.52	-0.1	0	0	0	0	0	0	0	0
7/9/2024 13:51	64201	KINZ_T1	881	1072	191	1.68	1.64	-0.04	0	0	0	0	0	0	0	0
7/9/2024 13:51	64202	KINZ_T1	105	111	6	2.15	2.34	0.19	0	0	0	0	0	0	0	0
7/9/2024 13:52	64101	REFR_T1	22	20	-2	0.91	1.81	0.9	-0.28	-0.27	0	0	0	0	0	0
7/9/2024 13:52	64201	KINZ_T1	881	1072	191	1.68	1.64	-0.04	0	0	0	0	0	0	0	0
7/9/2024 13:52	64203	KINZ_T1	1173	1232	59	1.13	1.14	0.01	0.65	0.77	3	3	0	2100	2100	0
7/9/2024 13:52	48301	ORWI_T1	49	28	-21	0.31	0.8	0.49	0.35	0.26	1	1	0	900	900	0
7/9/2024 13:52	64202	KINZ_T1	105	111	6	2.15	2.34	0.19	0	0	0	0	0	0	0	0
7/9/2024 13:52	64204	KINZ_T1	774	874	100	1.62	1.52	-0.1	0	0	0	0	0	0	0	0
7/9/2024 13:53	14404	SSLA_T1	39	54	15	1.07	1.06	-0.01	0	0	0	0	0	0	0	0
7/9/2024 13:53	14401	SSLA_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/9/2024 13:53	14403	SSLA_T1	17	18	1	1.12	1.19	0.07	1.45	1.5	1	1	0	600	600	0
7/9/2024 13:56	11406	FARM_T1	11	13	2	0.75	0.64	-0.11	0	0	0	0	0	0	0	0
7/9/2024 13:56	11403	FARM_T1	0	0	0	0	0	0	0.73	0.74	1	1	0	600	600	0
7/9/2024 13:56	11404	FARM_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/9/2024 13:56	11405	FARM_T1	14	35	21	0.56	0.73	0.17	0	0	0	0	0	0	0	0
7/9/2024 13:56	11402	FARM_T1	13	15	2	0.52	0.57	0.05	0	0	0	0	0	0	0	0
7/9/2024 14:04	40602	PIGR_T1	6	6	0	0.73	0.8	0.07	-0.56	-0.49	1	1	0	600	600	0
7/9/2024 14:04	17001	RIRO_T1	1	2	1	0.1	0.3	0.2	0.5	0.52	0	0	0	0	0	0
7/9/2024 14:04	40603	PIGR_T1	49	30	-19	1.27	0.33	-0.94	0	0	0	0	0	0	0	0
7/9/2024 14:04	40601	PIGR_T1	14	2	-12	0.46	0.2	-0.26	0	0	0	0	0	0	0	0
7/9/2024 14:06	64202	KINZ_T1	106	110	4	2.41	2.36	-0.05	0	0	0	0	0	0	0	0
7/9/2024 14:06	64201	KINZ_T1	945	1074	129	1.65	1.71	0.06	0	0	0	0	0	0	0	0
7/9/2024 14:06	67605	WARW_T1	0	0	0	0	0	0	-0.42	-0.35	0	0	0	0	0	0
7/9/2024 14:06	64204	KINZ_T1	753	882	129	1.53	1.62	0.09	0	0	0	0	0	0	0	0
7/9/2024 14:06	64203	KINZ_T1	1170	1230	60	1.14	1.25	0.11	0.65	0.77	3	3	0	2100	2100	0
7/9/2024 14:07	66903	SHIL_T2	5	3	-2	0.56	0.35	-0.21	0	0	0	0	0	0	0	0
7/9/2024 14:07	67605	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/9/2024 14:07	66902	SHIL_T2	10	16	6	0.53	0.59	0.06	-1.68	-1.7	0	0	0	0	0	0
7/9/2024 14:07	66901	SHIL_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/9/2024 14:08	56504	ROCK_T2	16	18	2	0.39	0.36	-0.03	1.54	1.54	0	0	0	0	0	0
7/9/2024 14:08	56501	ROCK_T2	3	2	-1	0.5	1	0.5	0	0	0	0	0	0	0	0
7/9/2024 14:08	65802	RTWN_T2	1	0	-1	0.4	0	-0.4	-1.13	-1.16	0	0	0	0	0	0
7/9/2024 14:08	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 14:09	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 14:09	44902	SCOT_T2	0	1	1	0	1	1	-0.17	-0.15	0	0	0	0	0	0
7/9/2024 14:09	54504	ENOL_T2	0	0	0	0	0	0	-0.88	-0.88	1	1	0	600	600	0
7/9/2024 14:09	15001	BLMO_T1	34	83	49	0.37	0.41	0.04	0	0	0	0	0	0	0	0
7/9/2024 14:09	65501	MOXO_T1	2	2	0	0.25	0	-0.25	-0.28	-0.29	1	1	0	900	900	0
7/9/2024 14:09	50701	SMEC_T1	1	3	2	0.7	0.47	-0.23	0	0.03	1	1	0	1200	1200	0
7/9/2024 14:09	56504	ROCK_T2	16	18	2	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
7/9/2024 14:09	64101	REFR_T1	18	16	-2	1.42	1.69	0.27	-0.27	-0.25	0	0	0	0	0	0
7/9/2024 14:09	56501	ROCK_T2	3	2	-1	0.5	1	0.5	-3.69	-3.63	0	0	0	0	0	0
7/9/2024 14:10	61103	BERK_T5	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
7/9/2024 14:10	61101	BERK_T5	11	13	2	1.48	0.66	-0.82	0	0	0	0	0	0	0	0
7/9/2024 14:10	61102	BERK_T5	0	0	0	0	0	0	-0.61	-0.77	3	3	0	2400	2400	0
7/9/2024 14:11	12304	LANA_T2	190	245	55	1.15	1.15	0	0	0	0	0	0	0	0	0
7/9/2024 14:11	15701	TANN_T1	1	2	1	3	3.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 14:11	12305	LANA_T2	36	51	15	1.06	0.95	-0.11	0	0	0	0	0	0	0	0
7/9/2024 14:11	12301	LANA_T2	2	9	7	0.25	0.3	0.05	-1.7	-1.64	1	1	0	1200	1200	0
7/9/2024 14:11	12302	LANA_T2	20	99	79	0.29	0.36	0.07	0	0	0	0	0	0	0	0
7/9/2024 14:11	20403	ASHF_T2	141	201	60	1.08	1.04	-0.04	1.58	1.78	0	0	0	0	0	0
7/9/2024 14:11	20402	ASHF_T2	118	238	120	0.96	0.95	-0.01	0	0	0	0	0	0	0	0
7/9/2024 14:11	67801	WLAN_T1	111	103	-8	0.62	0.86	0.24	-0.74	-0.85	0	0	0	0	0	0
7/9/2024 14:11	67804	WLAN_T1	10	10	0	1.95	2.29	0.34	0	0	0	0	0	0	0	0
7/9/2024 14:11	20401	ASHF_T2	23	54	31	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
7/9/2024 14:11	15704	TANN_T1	286	290	4	0.98	0.84	-0.14	0	0	0	0	0	0	0	0
7/9/2024 14:12	12305	LANA_T2	36	51	15	1.06	0.95	-0.11	0	0	0	0	0	0	0	0
7/9/2024 14:12	20402	ASHF_T2	118	238	120	0.96	0.95	-0.01	0	0	0	0	0	0	0	0
7/9/2024 14:12	12302	LANA_T2	20	99	79	0.29	0.36	0.07	-1.31	-1.28	3	3	0	2700	2700	0
7/9/2024 14:12	64203	KINZ_T1	1170	1230	60	1.14	1.25	0.11	0.77	0.74	3	3	0	2100	2100	0
7/9/2024 14:12	12304	LANA_T2	190	245	55	1.15	1.15	0	0	0	0	0	0	0	0	0
7/9/2024 14:12	20403	ASHF_T2	141	201	60	1.08	1.04	-0.04	1.58	1.78	0	0	0	0	0	0
7/9/2024 14:12	12301	LANA_T2	2	9	7	0.25	0.3	0.05	0	0	0	0	0	0	0	0
7/9/2024 14:12	64201	KINZ_T1	945	1074	129	1.65	1.71	0.06	0	0	0	0	0	0	0	0
7/9/2024 14:12	20401	ASHF_T2	23	54	31	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
7/9/2024 14:12	64204	KINZ_T1	753	882	129	1.53	1.62	0.09	0	0	0	0	0	0	0	0
7/9/2024 14:12	64202	KINZ_T1	106	110	4	2.41	2.36	-0.05	0	0	0	0	0	0	0	0
7/9/2024 14:13	61101	BERK_T5	11	13	2	1.48	0.66	-0.82	0	0	0	0	0	0	0	0
7/9/2024 14:13	61102	BERK_T5	0	0	0	0	0	0	-1.21	-1.53	6	6	0	4800	4800	0
7/9/2024 14:15	56504	ROCK_T2	16	41	25	0.41	0.51	0.1	0	0	0	0	0	0	0	0
7/9/2024 14:15	56503	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/9/2024 14:15	61101	BERK_T5	11	15	4	0.85	0.64	-0.21	0	0	0	0	0	0	0	0
7/9/2024 14:15	61102	BERK_T5	0	0	0	0	0	0	-0.61	-0.77	3	3	0	2400	2400	0
7/9/2024 14:15	56501	ROCK_T2	2	4	2	5	2.43	-2.57	-1.84	-1.81	0	0	0	0	0	0
7/9/2024 14:16	53802	MBRG_T2	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
7/9/2024 14:17	56503	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/9/2024 14:17	56501	ROCK_T2	2	4	2	5	2.43	-2.57	0	0	0	0	0	0	0	0
7/9/2024 14:17	56504	ROCK_T2	16	41	25	0.41	0.51	0.1	0.77	0.77	0	0	0	0	0	0
7/9/2024 14:17	21901	HUMB_T1	6	14	8	0.75	1.07	0.32	-1.25	-1.25	0	0	0	0	0	0
7/9/2024 14:18	25503	MADI_T1	19	26	7	0.5	0.76	0.26	-0.19	-0.2	0	0	0	0	0	0
7/9/2024 14:18	52006	LING_T2	7	9	2	0.69	1.33	0.64	0	0	0	0	0	0	0	0
7/9/2024 14:18	52002	LING_T2	0	15	15	0	0.33	0.33	0	0	0	0	0	0	0	0
7/9/2024 14:18	25501	MADI_T1	6	5	-1	0.47	0.23	-0.24	0	0	0	0	0	0	0	0
7/9/2024 14:18	52004	LING_T2	0	0	0	0	0	0	0.78	0.74	0	0	0	0	0	0
7/9/2024 14:20	60501	NMAN_T2	3	3	0	3.07	4.83	1.76	0	0	0	0	0	0	0	0
7/9/2024 14:20	40601	PIGR_T1	2	7	5	0.15	0.3	0.15	0	0	0	0	0	0	0	0
7/9/2024 14:20	60502	NMAN_T2	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
7/9/2024 14:20	40603	PIGR_T1	30	43	13	0.44	0.37	-0.07	0	0	0	0	0	0	0	0
7/9/2024 14:20	60504	NMAN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/9/2024 14:20	40602	PIGR_T1	2	7	5	0.8	0.43	-0.37	-0.49	-0.49	1	1	0	600	600	0
7/9/2024 14:21	66701	STRA_T1	7	10	3	0.69	0.5	-0.19	1.32	1.27	1	1	0	600	600	0
7/9/2024 14:21	52501	PROG_T1	0	0	0	0	0	0	-0.06	-0.08	1	1	0	300	300	0
7/9/2024 14:21	66703	STRA_T1	6	8	2	0.57	0.28	-0.29	0	0	0	0	0	0	0	0
7/9/2024 14:22	64101	REFR_T1	15	12	-3	1.79	1.82	0.03	-0.25	-0.29	0	0	0	0	0	0
7/9/2024 14:22	66703	STRA_T1	6	8	2	0.57	0.28	-0.29	0	0	0	0	0	0	0	0
7/9/2024 14:22	66701	STRA_T1	7	10	3	0.69	0.5	-0.19	1.32	1.27	1	1	0	600	600	0
7/9/2024 14:23	14102	TRUM_T2	3	6	3	0.17	2.1	1.93	0	0	0	0	0	0	0	0
7/9/2024 14:23	14101	TRUM_T2	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
7/9/2024 14:23	66701	STRA_T1	7	10	3	0.69	0.5	-0.19	1.32	1.27	1	1	0	600	600	0
7/9/2024 14:23	14103	TRUM_T2	268	333	65	1.51	2.35	0.84	0	0	0	0	0	0	0	0
7/9/2024 14:23	66703	STRA_T1	6	8	2	0.57	0.28	-0.29	0	0	0	0	0	0	0	0
7/9/2024 14:24	67904	WNHO_T1	0	0	0	0	0	0	-1.54	-1.54	2	2	0	2100	2100	0
7/9/2024 14:24	44301	BEAV_T2	80	90	10	0.74	0.63	-0.11	0.13	-0.43	2	2	0	1500	1500	0
7/9/2024 14:25	66701	STRA_T1	7	10	3	0.69	0.5	-0.19	0	0	0	0	0	0	0	0
7/9/2024 14:25	58001	WCAR_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/9/2024 14:25	58003	WCAR_T1	1	1	0	0.6	0.6	0	0.9	0.86	1	1	0	600	600	0
7/9/2024 14:25	44301	BEAV_T2	80	90	10	0.74	0.63	-0.11	0.13	-0.43	2	2	0	1500	1500	0
7/9/2024 14:25	66703	STRA_T1	6	8	2	0.57	0.28	-0.29	-0.66	-0.67	0	0	0	0	0	0
7/9/2024 14:26	56504	ROCK_T2	16	41	25	0.41	0.51	0.1	0	0	0	0	0	0	0	0
7/9/2024 14:26	56501	ROCK_T2	2	4	2	5	2.43	-2.57	-1.81	-1.74	0	0	0	0	0	0
7/9/2024 14:26	44301	BEAV_T2	80	90	10	0.74	0.63	-0.11	0.26	-0.85	4	4	0	3000	3000	0
7/9/2024 14:26	56503	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/9/2024 14:27	16302	ALPA_T2	0	0	0	0	0	0	0.56	0.62	0	0	0	0	0	0
7/9/2024 14:27	61101	BERK_T5	11	15	4	0.85	0.64	-0.21	0	0	0	0	0	0	0	0
7/9/2024 14:27	56501	ROCK_T2	2	4	2	5	2.43	-2.57	-3.63	-3.48	0	0	0	0	0	0
7/9/2024 14:27	15701	TANN_T1	1	2	1	3.1	3.1	0	0	0	0	0	0	0	0	0
7/9/2024 14:27	56503	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/9/2024 14:27	15704	TANN_T1	278	290	12	0.89	0.8	-0.09	0	0	0	0	0	0	0	0
7/9/2024 14:27	56504	ROCK_T2	16	41	25	0.41	0.51	0.1	0	0	0	0	0	0	0	0
7/9/2024 14:27	61102	BERK_T5	0	0	0	0	0	0	-0.77	-0.77	3	3	0	2400	2400	0
7/9/2024 14:28	11903	ETEX_T1	12	27	15	0.85	0.74	-0.11	1.74	1.65	0	0	0	0	0	0
7/9/2024 14:28	11902	ETEX_T1	7	5	-2	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
7/9/2024 14:28	56501	ROCK_T2	2	4	2	5	2.43	-2.57	-1.81	-1.74	0	0	0	0	0	0
7/9/2024 14:28	56503	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/9/2024 14:28	44801	EDAN_T2	63	78	15	0.51	0.45	-0.06	1.15	1.21	0	0	0	0	0	0
7/9/2024 14:28	56504	ROCK_T2	16	41	25	0.41	0.51	0.1	0.77	0.73	0	0	0	0	0	0
7/9/2024 14:29	11903	ETEX_T1	12	27	15	0.85	0.74	-0.11	1.74	1.65	0	0	0	0	0	0
7/9/2024 14:29	11902	ETEX_T1	7	5	-2	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
7/9/2024 14:30	61702	ELIZ_T2	0	1	1	0	0	0	-0.67	-0.7	2	2	0	1500	1500	0
7/9/2024 14:30	60104	COCA_T2	1	2	1	0.4	0	-0.4	0	-0.09	1	1	0	600	600	0
7/9/2024 14:30	60103	COCA_T2	52	42	-10	1.04	0.26	-0.78	0	0	0	0	0	0	0	0
7/9/2024 14:31	45801	HEGI_T1	0	4	4	0	0.3	0.3	0.32	0.28	1	1	0	900	900	0
7/9/2024 14:31	64902	MILL_T2	3	3	0	0.57	0	-0.57	-0.09	-0.09	1	1	0	900	900	0
7/9/2024 14:31	64903	MILL_T2	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
7/9/2024 14:32	20601	GRWO_T2	120	103	-17	1.16	0.84	-0.32	0	0	0	0	0	0	0	0
7/9/2024 14:32	20603	GRWO_T2	0	0	0	0	0	0	-1.39	-1.41	2	2	0	2100	2100	0
7/9/2024 14:34	64202	KINZ_T1	106	101	-5	2.41	1.78	-0.63	0	0	0	0	0	0	0	0
7/9/2024 14:34	64204	KINZ_T1	843	682	-161	1.67	1.06	-0.61	0	0	0	0	0	0	0	0
7/9/2024 14:34	64201	KINZ_T1	1027	465	-562	1.73	0.92	-0.81	-0.2	-0.85	5	5	0	3300	3300	0
7/9/2024 14:34	64203	KINZ_T1	1208	897	-311	1.26	0.83	-0.43	0	0	0	0	0	0	0	0
7/9/2024 14:35	66703	STRA_T1	7	7	0	0.26	0.55	0.29	-0.66	-0.67	0	0	0	0	0	0
7/9/2024 14:35	66701	STRA_T1	8	15	7	0.54	0.58	0.04	0	0	0	0	0	0	0	0
7/9/2024 14:37	64202	KINZ_T1	106	101	-5	2.41	1.78	-0.63	0	0	0	0	0	0	0	0
7/9/2024 14:37	64203	KINZ_T1	1208	897	-311	1.26	0.83	-0.43	0	0	0	0	0	0	0	0
7/9/2024 14:37	57702	PAXT_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
7/9/2024 14:37	64204	KINZ_T1	843	682	-161	1.67	1.06	-0.61	0	0	0	0	0	0	0	0
7/9/2024 14:37	52501	PROG_T1	0	0	0	0	0	0	-0.11	-0.04	1	1	0	300	300	0
7/9/2024 14:37	55105	WERT_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 14:37	55101	WERT_T1	80	176	96	0.94	0.88	-0.06	-1.29	-1.27	4	4	0	3300	3300	0
7/9/2024 14:37	64101	REFR_T1	12	16	4	1.57	1.95	0.38	-0.29	-0.28	0	0	0	0	0	0
7/9/2024 14:37	64201	KINZ_T1	1027	465	-562	1.73	0.92	-0.81	-1.7	-1.9	10	10	0	6600	6600	0
7/9/2024 14:39	49804	UNIV_T1	0	3	3	0	0.5	0.5	1.32	1.4	0	0	0	0	0	0
7/9/2024 14:39	49803	UNIV_T1	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
7/9/2024 14:40	56803	BENV_T1	12	25	13	1.18	0.9	-0.28	0	0	0	0	0	0	0	0
7/9/2024 14:40	56801	BENV_T1	3	6	3	0.2	0.48	0.28	0.09	0.1	1	1	0	600	600	0
7/9/2024 14:40	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.47	-0.36	0	0	0	0	0	0
7/9/2024 14:40	44301	BEAV_T2	25	110	85	0.63	1.06	0.43	-0.43	-0.31	2	2	0	1500	1500	0
7/9/2024 14:41	61703	ELIZ_T1	0	0	0	0	0	0	-2.05	-2.06	2	2	0	2100	2100	0
7/9/2024 14:41	56803	BENV_T1	12	25	13	1.18	0.9	-0.28	0.31	0.28	1	1	0	600	600	0
7/9/2024 14:41	56801	BENV_T1	3	6	3	0.2	0.48	0.28	0.09	0.1	1	1	0	600	600	0
7/9/2024 14:41	61701	ELIZ_T1	2	2	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
7/9/2024 14:42	61701	ELIZ_T1	2	2	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
7/9/2024 14:42	61703	ELIZ_T1	0	0	0	0	0	0	-2.05	-2.06	2	2	0	2100	2100	0
7/9/2024 14:44	56803	BENV_T1	12	25	13	1.18	0.9	-0.28	0	0	0	0	0	0	0	0
7/9/2024 14:44	56801	BENV_T1	3	6	3	0.2	0.48	0.28	0.27	0.3	3	3	0	1800	1800	0
7/9/2024 14:46	43202	MVIL_T2	12	20	8	0.38	0.38	0	-0.24	-0.18	0	0	0	0	0	0
7/9/2024 14:46	29401	BELT_T1	7	26	19	0.41	0.43	0.02	0	0	1	1	0	900	900	0
7/9/2024 14:46	29402	BELT_T1	2	1	-1	4.55	9.1	4.55	0	0	0	0	0	0	0	0
7/9/2024 14:46	43201	MVIL_T2	68	72	4	1.05	1.25	0.2	0	0	0	0	0	0	0	0
7/9/2024 14:48	52004	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 14:48	52002	LING_T2	15	27	12	0.25	0.27	0.02	-0.37	-0.34	2	2	0	1800	1800	0
7/9/2024 14:48	52006	LING_T2	7	7	0	1.51	1.23	-0.28	0	0	0	0	0	0	0	0
7/9/2024 14:48	40101	HUNT_T2	376	470	94	0.98	0.99	0.01	-0.7	-0.67	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/9/2024 14:49	46301	ROHR_T1	2	2	0	0.15	0.4	0.25	0.6	0.62	0	0	0	0	0	0
7/9/2024 14:49	40101	HUNT_T2	376	470	94	0.98	0.99	0.01	-0.7	-0.67	0	0	0	0	0	0
7/9/2024 14:49	46302	ROHR_T1	4	5	1	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
7/9/2024 14:50	67703	WERN_T2	103	146	43	0.5	0.51	0.01	-0.01	-0.01	1	1	0	900	900	0
7/9/2024 14:51	52006	LING_T2	7	7	0	1.51	1.23	-0.28	0	0	0	0	0	0	0	0
7/9/2024 14:51	67703	WERN_T2	103	146	43	0.5	0.51	0.01	-0.01	-0.01	1	1	0	900	900	0
7/9/2024 14:51	52004	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 14:51	52002	LING_T2	15	27	12	0.25	0.27	0.02	-0.19	-0.17	1	1	0	900	900	0
7/9/2024 14:52	59202	THOM_T1	9	4	-5	0.7	0.57	-0.13	0	0	0	0	0	0	0	0
7/9/2024 14:52	41903	REED_T1	7	5	-2	1.03	1.3	0.27	0	0	0	0	0	0	0	0
7/9/2024 14:52	41902	REED_T1	86	95	9	0.6	0.59	0.01	0.04	0.04	1	1	0	900	900	0
7/9/2024 14:52	41901	REED_T1	7	11	4	0.69	0.35	-0.34	0	0	0	0	0	0	0	0
7/9/2024 14:54	42701	AUGU_T1	68	69	1	1.52	1.44	-0.08	0	0	2	2	0	1800	1800	0
7/9/2024 14:54	67703	WERN_T2	103	146	43	0.5	0.51	0.01	-0.02	-0.02	2	2	0	1800	1800	0
7/9/2024 14:55	67801	WLAN_T1	46	52	6	0.76	0.56	-0.2	-0.83	-0.81	0	0	0	0	0	0
7/9/2024 14:55	67804	WLAN_T1	10	10	0	2.07	1.91	-0.16	0	0	0	0	0	0	0	0
7/9/2024 14:55	41901	REED_T1	7	11	4	0.69	0.35	-0.34	0	0	0	0	0	0	0	0
7/9/2024 14:55	41902	REED_T1	86	95	9	0.6	0.59	-0.01	0.04	0.04	1	1	0	900	900	0
7/9/2024 14:55	41903	REED_T1	7	5	-2	1.03	1.3	0.27	0	0	0	0	0	0	0	0
7/9/2024 14:56	42701	AUGU_T1	68	69	1	1.52	1.44	-0.08	0	0	2	2	0	1800	1800	0
7/9/2024 14:57	63304	GREE_T1	0	0	0	0	0	0	-2.8	-2.77	1	1	0	1200	1200	0
7/9/2024 14:57	53601	DALM_T2	3	3	0	0.6	0	-0.6	0.26	-0.44	1	1	0	900	900	0
7/9/2024 14:58	63304	GREE_T1	0	0	0	0	0	0	-2.8	-2.77	1	1	0	1200	1200	0
7/9/2024 15:00	61505	EPET_T1	0	0	0	0	0	0	0.93	0.84	0	0	0	0	0	0
7/9/2024 15:02	59202	THOM_T1	3	4	1	0.63	0.27	-0.36	0	0	0	0	0	0	0	0
7/9/2024 15:02	59003	MIFF_T1	38	193	155	0.62	0.59	-0.03	-0.22	0.06	0	0	0	0	0	0
7/9/2024 15:06	64204	KINZ_T1	675	621	-54	1.19	0.56	-0.63	0	0	0	0	0	0	0	0
7/9/2024 15:06	64202	KINZ_T1	100	89	-11	2.03	1.65	-0.38	0	0	0	0	0	0	0	0
7/9/2024 15:06	64203	KINZ_T1	891	479	-412	0.87	0.93	0.06	0	0	0	0	0	0	0	0
7/9/2024 15:06	64201	KINZ_T1	452	372	-80	1.16	0.5	-0.66	-1	-1.07	5	5	0	3300	3300	0
7/9/2024 15:07	47401	PENS_T1	13	8	-5	0.75	0.68	-0.07	0.75	0.7	0	0	0	0	0	0
7/9/2024 15:07	47403	PENS_T1	1	1	0	1.5	0.5	-1	0	0	0	0	0	0	0	0
7/9/2024 15:07	47402	PENS_T1	7	5	-2	1.63	0.6	-1.03	0	0	0	0	0	0	0	0
7/9/2024 15:07	42201	SHEN_T2	0	0	0	0	0	0	0.17	0.18	1	1	0	600	600	0
7/9/2024 15:09	40603	PIGR_T1	43	44	1	0.78	0.55	-0.23	0	0	0	0	0	0	0	0
7/9/2024 15:09	40601	PIGR_T1	9	9	0	0.46	0.3	-0.16	0	0	0	0	0	0	0	0
7/9/2024 15:09	40602	PIGR_T1	4	4	0	0.6	0.7	0.1	-1.03	-0.93	2	2	0	1200	1200	0
7/9/2024 15:10	44801	EDAN_T2	49	45	-4	0.44	0.45	0.01	1.21	1.18	0	0	0	0	0	0
7/9/2024 15:10	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 15:10	47402	PENS_T1	7	5	-2	1.63	0.6	-1.03	0	0	0	0	0	0	0	0
7/9/2024 15:10	59101	WALK_T2	5	23	18	0.8	0.93	0.13	1.08	0.72	4	4	0	2400	2400	0
7/9/2024 15:10	47401	PENS_T1	13	8	-5	0.75	0.68	-0.07	0.75	0.7	0	0	0	0	0	0
7/9/2024 15:10	47403	PENS_T1	1	1	0	1.5	0.5	-1	0	0	0	0	0	0	0	0
7/9/2024 15:12	42701	AUGU_T1	65	71	6	1.47	1.53	0.06	0	0	2	2	0	1800	1800	0
7/9/2024 15:13	11507	FREE_T2	416	318	-98	1.46	1.33	-0.13	0.93	0.93	1	1	0	600	600	0
7/9/2024 15:14	11504	FREE_T1	57	57	0	0.84	0.62	-0.22	-0.98	-1.01	2	2	0	2100	2100	0
7/9/2024 15:14	11502	FREE_T1	2	2	0	1.05	0.7	-0.35	0	0	0	0	0	0	0	0
7/9/2024 15:14	62102	ELAN_T1	0	3	3	0	2.75	2.75	0.17	0.24	0	0	0	0	0	0
7/9/2024 15:14	11505	FREE_T1	29	29	0	1.03	1.61	0.58	0	0	0	0	0	0	0	0
7/9/2024 15:14	62104	ELAN_T1	0	10	10	0	0.25	0.25	0	0	0	0	0	0	0	0
7/9/2024 15:14	62105	ELAN_T1	2	4	2	0.2	0.67	0.47	0	0	0	0	0	0	0	0
7/9/2024 15:15	11902	ETEX_T1	15	22	7	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
7/9/2024 15:15	25402	LAHA_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
7/9/2024 15:15	11903	ETEX_T1	49	63	14	0.74	0.82	0.08	1.75	1.74	0	0	0	0	0	0
7/9/2024 15:17	46302	ROHR_T1	4	4	0	0.5	0.37	-0.13	0.56	0.57	0	0	0	0	0	0
7/9/2024 15:17	11903	ETEX_T1	49	63	14	0.74	0.82	0.08	1.75	1.74	0	0	0	0	0	0
7/9/2024 15:17	11902	ETEX_T1	15	22	7	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
7/9/2024 15:17	45801	HEGI_T1	3	0	-3	0.27	0	-0.27	0.24	0.29	1	1	0	900	900	0
7/9/2024 15:18	45801	HEGI_T1	3	0	-3	0.27	0	-0.27	0.24	0.29	1	1	0	900	900	0
7/9/2024 15:18	55001	NEWP_T1	53	77	24	0.89	0.87	-0.02	0.17	0.15	0	0	0	0	0	0
7/9/2024 15:18	40101	HUNT_T2	455	372	-83	1.18	0.76	-0.42	-0.74	-0.86	0	0	0	0	0	0
7/9/2024 15:19	64904	MILL_T1	0	0	0	0	0	0	-0.09	-0.06	0	0	0	0	0	0
7/9/2024 15:20	27605	PIRI_T2	1649	1763	114	1.79	1.74	-0.05	2.04	2	0	0	0	0	0	0
7/9/2024 15:20	46302	ROHR_T1	4	4	0	0.5	0.37	-0.13	0.56	0.57	0	0	0	0	0	0
7/9/2024 15:20	27603	PIRI_T2	5	6	1	0.84	0.7	-0.14	0	0	0	0	0	0	0	0
7/9/2024 15:22	67804	WLAN_T1	10	10	0	1.94	1.42	-0.52	0	0	0	0	0	0	0	0
7/9/2024 15:22	67801	WLAN_T1	50	47	-3	0.59	0.64	0.05	-0.75	-0.77	0	0	0	0	0	0
7/9/2024 15:23	27603	PIRI_T2	5	6	1	0.84	0.7	-0.14	0	0	0	0	0	0	0	0
7/9/2024 15:23	55001	NEWP_T1	53	77	24	0.89	0.87	-0.02	0.15	0.16	0	0	0	0	0	0
7/9/2024 15:23	27605	PIRI_T2	1649	1763	114	1.79	1.74	-0.05	2	2.08	0	0	0	0	0	0
7/9/2024 15:25	14401	SSLA_T1	1	2	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/9/2024 15:25	14404	SSLA_T1	54	59	5	0.86	0.94	0.08	0	0	0	0	0	0	0	0
7/9/2024 15:25	14403	SSLA_T1	16	16	0	1.17	0.58	-0.59	1.07	1.06	2	2	0	1200	1200	0
7/9/2024 15:26	15001	BLMO_T1	43	97	54	0.47	0.39	-0.08	0	0	0	0	0	0	0	0
7/9/2024 15:27	15001	BLMO_T1	43	97	54	0.47	0.39	-0.08	0	0	0	0	0	0	0	0
7/9/2024 15:28	61801	EELI_T2	6	10	4	0.45	0.94	0.49	0.56	0.6	2	2	0	1200	1200	0
7/9/2024 15:28	15001	BLMO_T1	43	97	54	0.47	0.39	-0.08	0	0	0	0	0	0	0	0
7/9/2024 15:28	61802	EELI_T2	8	8	0	0.68	0.93	0.25	0	0	0	0	0	0	0	0
7/9/2024 15:29	51604	DUKE_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
7/9/2024 15:29	61801	EELI_T2	6	10	4	0.45	0.94	0.49	0.28	0.3	1	1	0	600	600	0
7/9/2024 15:29	61802	EELI_T2	8	8	0	0.68	0.93	0.25	0	0	0	0	0	0	0	0
7/9/2024 15:30	51604	DUKE_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
7/9/2024 15:31	52404	GRPA_T2	64	56	-8	0.6	0.52	-0.08	0	0	0	0	0	0	0	0
7/9/2024 15:31	52403	GRPA_T2	240	230	-10	1.43	1.35	-0.08	0	0	0	0	0	0	0	0
7/9/2024 15:31	52401	GRPA_T2	107	95	-12	0.98	0.57	-0.41	-0.49	-0.51	0	0	0	0	0	0
7/9/2024 15:31	52402	GRPA_T2	45	18	-27	0.66	0.57	-0.09	0	0	0	0	0	0	0	0
7/9/2024 15:32	67605	WARW_T1	1	1	0	0.7	0.1	-0.6	-0.65	-0.49	0	0	0	0	0	0
7/9/2024 15:33	67605	WARW_T1	1	1	0	0.7	0.1	-0.6	-0.65	-0.49	0	0	0	0	0	0
7/9/2024 15:33	55001	NEWP_T1	68	100	32	0.97	0.83	-0.14	0.15	0.16	0	0	0	0	0	0
7/9/2024 15:34	12704	MACU_T1	13	15	2	0.87	1	0.13	0	0	0	0	0	0	0	0
7/9/2024 15:34	12701	MACU_T1	29	88	59	0.74	0.8	0.06	-0.38	-0.32	1	1	0	1200	1200	0
7/9/2024 15:34	55001	NEWP_T1	68	100	32	0.97	0.83	-0.14	0.15	0.16	0	0	0	0	0	0
7/9/2024 15:35	67703	WERN_T2	40	38	-2	0.45	0.23	-0.22	-0.01	-0.01	1	1	0	900	900	0
7/9/2024 15:36	40301	TAMA_T3	17	29	12	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
7/9/2024 15:36	40302	TAMA_T3	2	2	0	0.2	0.25	0.05	-2.1	-2.09	1	1	0	1200	1200	0
7/9/2024 15:37	45303	WBER_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 15:37	45302	WBER_T2	33	23	-10	0.66	0.69	0.03	1.78	1.76	0	0	0	0	0	0
7/9/2024 15:37	61802	EELI_T2	8	8	0	1.09	0.88	-0.21	0	0	0	0	0	0	0	0
7/9/2024 15:37	61801	EELI_T2	9	10	1	0.89	0.57	-0.32	0.3	0.25	1	1	0	600	600	0
7/9/2024 15:39	64101	REFR_T1	17	29	12	1.41	1.29	-0.12	-0.25	-0.18	0	0	0	0	0	0
7/9/2024 15:39	67703	WERN_T2	40	38	-2	0.45	0.23	-0.22	-0.01	-0.01	1	1	0	900	900	0
7/9/2024 15:40	45303	WBER_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 15:40	45302	WBER_T2	33	23	-10	0.66	0.69	0.03	1.78	1.76	0	0	0	0	0	0
7/9/2024 15:41	14402	SSLA_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 15:41	14401	SSLA_T1	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/9/2024 15:41	14404	SSLA_T1	53	99	46	0.95	1.09	0.14	0	0	0	0	0	0	0	0
7/9/2024 15:41	14403	SSLA_T1	16	13	-3	0.92	0.48	-0.44	1.06	1.03	2	2	0	1200	1200	0
7/9/2024 15:42	29401	BELT_T1	17	12	-5	0.45	0.43	-0.02	0	0	1	1	0	900	900	0
7/9/2024 15:42	44801	EDAN_T2	31	100	69	0.5	0.53	0.03	1.19	1.18	0	0	0	0	0	0
7/9/2024 15:42	61802	EELI_T2	8	8	0	1.09	0.88	-0.21	0	0	0	0	0	0	0	0
7/9/2024 15:42	61801	EELI_T2	9	10	1	0.89	0.57	-0.32	0.3	0.25	1	1	0	600	600	0
7/9/2024 15:42	29402	BELT_T1	1	1	0	9.2	8.7	-0.5	0	0	0	0	0	0	0	0
7/9/2024 15:43	67503	WEWI_T2	107	103	-4	0.81	0.65	-0.16	0.61	0.63	0	0	0	0	0	0
7/9/2024 15:43	67502	WEWI_T2	54	69	15	0.94	0.69	-0.25	0	0	0	0	0	0	0	0
7/9/2024 15:45	22905	HARW_T1	20	42	22	1.18	0.63	-0.55	0	0	0	0	0	0	0	0
7/9/2024 15:45	22901	HARW_T1	42	44	2	1.01	0.81	-0.2	0.18	0.19	1	1	0	1200	1200	0
7/9/2024 15:45	29401	BELT_T1	12	14	2	0.42	0.41	-0.01	0	0	0	0	0	0	0	0
7/9/2024 15:45	22903	HARW_T1	11	20	9	0.6	0.66	0.06	0	0	0	0	0	0	0	0
7/9/2024 15:45	29402	BELT_T1	1	2	1	8.7	8.2	-0.5	0	0	0	0	0	0	0	0
7/9/2024 15:47	52401	GRPA_T2	94	94	0	0.79	0.55	-0.24	-0.51	-0.52	0	0	0	0	0	0
7/9/2024 15:47	52403	GRPA_T2	228	176	-52	1.3	1.47	0.17	0	0	0	0	0	0	0	0
7/9/2024 15:47	52402	GRPA_T2	16	94	78	0.79	0.55	-0.24	0	0	0	0	0	0	0	0
7/9/2024 15:47	52404	GRPA_T2	55	27	-28	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
7/9/2024 15:49	44702	MUNC_T2	0	8	8	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 15:49	44703	MUNC_T2	46	43	-3	0.92	0.78	-0.14	1.6	1.53	0	0	0	0	0	0
7/9/2024 15:49	44701	MUNC_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 15:53	67605	WARW_T1	0	1	1	0	0.6	0.6	-0.53	-0.54	0	0	0	0	0	0
7/9/2024 15:54	67605	WARW_T1	0	1	1	0	0.6	0.6	-0.53	-0.54	0	0	0	0	0	0
7/9/2024 15:54	49803	UNIV_T1	0	0	0	0	0	0	-1.28	-1.25	0	0	0	0	0	0
7/9/2024 15:55	20401	ASHF_T2	31	52	21	0.73	0.72	-0.01	0	0	0	0	0	0	0	0
7/9/2024 15:55	20402	ASHF_T2	125	219	94	0.7	0.68	-0.02	0	0	0	0	0	0	0	0
7/9/2024 15:55	20403	ASHF_T2	127	160	33	0.75	0.68	-0.07	0.97	0.48	0	0	0	0	0	0
7/9/2024 15:56	20403	ASHF_T2	127	160	33	0.75	0.68	-0.07	0.97	0.48	0	0	0	0	0	0
7/9/2024 15:56	20401	ASHF_T2	31	52	21	0.73	0.72	-0.01	0	0	0	0	0	0	0	0
7/9/2024 15:56	20402	ASHF_T2	125	219	94	0.7	0.68	-0.02	0	0	0	0	0	0	0	0
7/9/2024 15:56	42201	SHEN_T2	0	0	0	0	0	0	0.22	0.16	1	1	0	600	600	0
7/9/2024 16:03	52006	LING_T2	6	6	0	0.92	0.75	-0.17	0	0	0	0	0	0	0	0
7/9/2024 16:03	51401	LYKE_T1	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
7/9/2024 16:03	52004	LING_T2	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/9/2024 16:03	52002	LING_T2	57	15	-42	0.33	0.27	-0.06	-0.07	-0.05	1	1	0	900	900	0
7/9/2024 16:05	51401	LYKE_T1	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
7/9/2024 16:05	48301	ORWI_T1	9	16	7	0.86	1.06	0.2	0.08	0.04	1	1	0	900	900	0
7/9/2024 16:05	52004	LING_T2	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/9/2024 16:05	52002	LING_T2	57	15	-42	0.33	0.27	-0.06	-0.07	-0.05	1	1	0	900	900	0
7/9/2024 16:05	52006	LING_T2	6	6	0	0.92	0.75	-0.17	0	0	0	0	0	0	0	0
7/9/2024 16:10	15103	UPHA_T2	0	0	0	0	0	0	0.12	0.03	0	0	0	0	0	0
7/9/2024 16:10	67605	WARW_T1	1	1	0	0.1	0.7	0.6	-0.54	-0.52	0	0	0	0	0	0
7/9/2024 16:10	56504	ROCK_T2	129	146	17	0.69	0.61	-0.08	0	0	0	0	0	0	0	0
7/9/2024 16:10	56501	ROCK_T2	9	9	0	0.69	0.48	-0.21	-1.7	-1.64	0	0	0	0	0	0
7/9/2024 16:10	15104	UPHA_T2	14	0	-14	0.49	0	-0.49	0	0	0	0	0	0	0	0
7/9/2024 16:10	20401	ASHF_T2	52	43	-9	0.69	0.72	0.03	0	0	0	0	0	0	0	0
7/9/2024 16:10	56503	ROCK_T2	1	2	1	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/9/2024 16:10	20402	ASHF_T2	218	184	-34	0.83	0.68	-0.15	0	0	0	0	0	0	0	0
7/9/2024 16:10	20403	ASHF_T2	160	127	-33	0.81	0.69	-0.12	0.48	0.44	0	0	0	0	0	0
7/9/2024 16:11	67605	WARW_T1	1	1	0	0.1	0.7	0.6	-0.54	-0.52	0	0	0	0	0	0
7/9/2024 16:17	58402	MORO_T1	8	12	4	0.78	0.4	-0.38	-1.15	-1.3	5	5	0	3150	3150	0
7/9/2024 16:17	58401	MORO_T1	4	4	0	0.33	0.65	0.32	0	0	0	0	0	0	0	0
7/9/2024 16:18	12006	HATF_T1	0	0	0	0	0	0	-0.05	-0.17	3	3	0	3600	3600	0
7/9/2024 16:18	12002	HATF_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/9/2024 16:18	12001	HATF_T1	8	7	-1	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
7/9/2024 16:19	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 16:19	44801	EDAN_T2	87	120	33	0.7	0.6	-0.1	1.19	1.16	0	0	0	0	0	0
7/9/2024 16:20	45702	LIND_T2	1	2	1	0.5	0.4	-0.1	-1.05	-1.03	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/9/2024 16:21	57106	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 16:21	59003	MIFF_T1	232	217	-15	1.39	0.81	-0.58	-0.02	-0.01	0	0	0	0	0	0
7/9/2024 16:21	48301	ORWI_T1	10	14	4	0.99	1.03	0.04	0.04	0.04	1	1	0	900	900	0
7/9/2024 16:21	57104	SPHI_T2	0	0	0	0	0	0	-1.27	-1.3	1	1	0	900	900	0
7/9/2024 16:23	47401	PENS_T1	8	17	9	0.64	0.58	-0.06	0.66	0.61	0	0	0	0	0	0
7/9/2024 16:23	47402	PENS_T1	6	8	2	1.37	1.6	0.23	0	0	0	0	0	0	0	0
7/9/2024 16:23	47403	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/9/2024 16:24	61701	ELIZ_T1	1	1	0	1.6	1.4	-0.2	1.88	1.87	0	0	0	0	0	0
7/9/2024 16:25	20401	ASHF_T2	27	43	16	0.76	0.49	-0.27	0	0	0	0	0	0	0	0
7/9/2024 16:25	20403	ASHF_T2	71	143	72	0.69	0.77	0.08	0.44	0.47	0	0	0	0	0	0
7/9/2024 16:25	20402	ASHF_T2	172	230	58	0.7	0.75	0.05	0	0	0	0	0	0	0	0
7/9/2024 16:26	47402	PENS_T1	6	8	2	1.37	1.6	0.23	0	0	0	0	0	0	0	0
7/9/2024 16:26	47401	PENS_T1	8	17	9	0.64	0.58	-0.06	0.66	0.61	0	0	0	0	0	0
7/9/2024 16:26	20403	ASHF_T2	71	143	72	0.69	0.77	0.08	0.44	0.47	0	0	0	0	0	0
7/9/2024 16:26	20401	ASHF_T2	27	43	16	0.76	0.49	-0.27	0	0	0	0	0	0	0	0
7/9/2024 16:26	47403	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/9/2024 16:26	60201	ATGL_T2	2	5	3	0.1	0.16	0.06	0.02	-0.02	2	2	0	900	900	0
7/9/2024 16:26	20402	ASHF_T2	172	230	58	0.7	0.75	0.05	0	0	0	0	0	0	0	0
7/9/2024 16:27	62102	ELAN_T1	1	4	3	2.5	1.1	-1.4	0.34	0.27	0	0	0	0	0	0
7/9/2024 16:27	62105	ELAN_T1	4	4	0	0.95	0.6	-0.35	0	0	0	0	0	0	0	0
7/9/2024 16:27	62104	ELAN_T1	7	13	6	0.29	0.2	-0.09	0	0	0	0	0	0	0	0
7/9/2024 16:31	61703	ELIZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 16:31	52401	GRPA_T2	94	123	29	0.8	1.28	0.48	0	0	0	0	0	0	0	0
7/9/2024 16:31	61701	ELIZ_T1	1	1	0	1.4	1.4	0	1.88	1.87	0	0	0	0	0	0
7/9/2024 16:31	52403	GRPA_T2	164	159	-5	1.63	2.32	0.69	-0.12	-0.13	0	0	0	0	0	0
7/9/2024 16:31	52404	GRPA_T2	16	77	61	0.46	0.52	0.06	0	0	0	0	0	0	0	0
7/9/2024 16:31	52402	GRPA_T2	94	98	4	1.19	1.24	0.05	0	0	0	0	0	0	0	0
7/9/2024 16:34	67204	TEHI_T2	8	8	0	0.63	0.79	0.16	0.05	0.07	0	0	0	0	0	0
7/9/2024 16:35	52404	GRPA_T2	16	77	61	0.46	0.52	0.06	0	0	0	0	0	0	0	0
7/9/2024 16:35	52402	GRPA_T2	94	98	4	1.19	1.24	0.05	0	0	0	0	0	0	0	0
7/9/2024 16:35	52403	GRPA_T2	164	159	-5	1.63	2.32	0.69	-0.12	-0.13	0	0	0	0	0	0
7/9/2024 16:35	52401	GRPA_T2	94	123	29	0.8	1.28	0.48	0	0	0	0	0	0	0	0
7/9/2024 16:36	58003	WCAR_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/9/2024 16:36	58001	WCAR_T1	0	0	0	0	0	0	-0.49	-0.54	0	0	0	0	0	0
7/9/2024 16:37	64101	REFR_T1	22	34	12	1.33	1.16	-0.17	-0.18	-0.2	0	0	0	0	0	0
7/9/2024 16:37	67204	TEHI_T2	8	8	0	0.63	0.79	0.16	0.07	0.1	0	0	0	0	0	0
7/9/2024 16:44	58701	ROSE_T2	14	22	8	0.39	0.27	-0.12	-1.14	-1.14	1	1	0	600	600	0
7/9/2024 16:44	58706	ROSE_T2	13	13	0	1.16	1.03	-0.13	0	0	0	0	0	0	0	0
7/9/2024 16:44	58702	ROSE_T2	6	10	4	0.25	0.32	0.07	0	0	0	0	0	0	0	0
7/9/2024 16:44	58705	ROSE_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 16:45	58701	ROSE_T2	21	12	-9	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
7/9/2024 16:45	58706	ROSE_T2	13	10	-3	1.18	0.88	-0.3	0.75	0.63	1	1	0	600	600	0
7/9/2024 16:45	58702	ROSE_T2	9	8	-1	0.37	0.32	-0.05	0	0	0	0	0	0	0	0
7/9/2024 16:45	58705	ROSE_T2	0	6	6	0	0.25	0.25	0	0	0	0	0	0	0	0
7/9/2024 16:49	52004	LING_T2	2	1	-1	1.25	1	-0.25	0	0	0	0	0	0	0	0
7/9/2024 16:49	52006	LING_T2	6	6	0	1.15	0.82	-0.33	0	0	0	0	0	0	0	0
7/9/2024 16:49	65802	RTWN_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
7/9/2024 16:49	65803	RTWN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/9/2024 16:49	52002	LING_T2	34	31	-3	0.37	0.18	-0.19	-0.01	-0.06	1	1	0	900	900	0
7/9/2024 16:52	47401	PENS_T1	7	29	22	0.77	0.64	-0.13	0.68	0.77	0	0	0	0	0	0
7/9/2024 16:52	47402	PENS_T1	8	14	6	2.94	3.77	0.83	0	0	0	0	0	0	0	0
7/9/2024 16:55	47402	PENS_T1	8	14	6	2.94	3.77	0.83	0	0	0	0	0	0	0	0
7/9/2024 16:55	47401	PENS_T1	7	29	22	0.77	0.64	-0.13	0.68	0.77	0	0	0	0	0	0
7/9/2024 16:59	22903	HARW_T1	13	22	9	0.53	0.76	0.23	0	0	0	0	0	0	0	0
7/9/2024 16:59	22901	HARW_T1	38	62	24	0.87	1.12	0.25	-0.01	0	1	1	0	1200	1200	0
7/9/2024 16:59	22905	HARW_T1	32	36	4	0.76	0.63	-0.13	0	0	0	0	0	0	0	0
7/9/2024 17:00	66503	SMAN_T2	8	4	-4	0.35	0.13	-0.22	0	0	0	0	0	0	0	0
7/9/2024 17:00	66504	SMAN_T2	29	25	-4	0.58	0.44	-0.14	0.59	0.49	0	0	0	0	0	0
7/9/2024 17:00	66505	SMAN_T2	1	3	2	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
7/9/2024 17:01	22901	HARW_T1	43	72	29	1.16	0.95	-0.21	-0.01	0	1	1	0	1200	1200	0
7/9/2024 17:01	22905	HARW_T1	27	34	7	0.66	0.7	0.04	0	0	0	0	0	0	0	0
7/9/2024 17:01	22903	HARW_T1	16	22	6	0.78	1.02	0.24	0	0	0	0	0	0	0	0
7/9/2024 17:02	63401	HONY_T1	0	1	1	0	0	0	0.31	0.36	1	1	0	600	600	0
7/9/2024 17:04	64202	KINZ_T1	3	45	42	0.77	0.51	-0.26	0	0	0	0	0	0	0	0
7/9/2024 17:04	64203	KINZ_T1	2	2	0	1.55	1.1	-0.45	-0.33	-0.8	3	3	0	2100	2100	0
7/9/2024 17:04	64201	KINZ_T1	0	30	30	0	0.39	0.39	0	0	0	0	0	0	0	0
7/9/2024 17:04	64204	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/9/2024 17:05	64202	KINZ_T1	3	45	42	0.77	0.51	-0.26	0	0	0	0	0	0	0	0
7/9/2024 17:05	64201	KINZ_T1	0	30	30	0	0.39	0.39	0	0	0	0	0	0	0	0
7/9/2024 17:05	64203	KINZ_T1	2	2	0	1.55	1.1	-0.45	-0.33	-0.8	3	3	0	2100	2100	0
7/9/2024 17:05	64204	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/9/2024 17:06	44802	EDAN_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/9/2024 17:06	44801	EDAN_T2	112	105	-7	0.62	0.71	0.09	1.14	1.14	0	0	0	0	0	0
7/9/2024 17:08	64203	KINZ_T1	2	2	0	1.55	1.1	-0.45	-0.8	-0.93	3	3	0	2100	2100	0
7/9/2024 17:08	64201	KINZ_T1	0	30	30	0	0.39	0.39	0	0	0	0	0	0	0	0
7/9/2024 17:08	64204	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/9/2024 17:08	64202	KINZ_T1	3	45	42	0.77	0.51	-0.26	0	0	0	0	0	0	0	0
7/9/2024 17:09	59101	WALK_T2	0	1	1	0	0	0	0.3	0.31	3	3	0	1800	1800	0
7/9/2024 17:13	20402	ASHF_T2	278	269	-9	1.09	0.88	-0.21	0	0	0	0	0	0	0	0
7/9/2024 17:13	20401	ASHF_T2	71	73	2	0.65	0.64	-0.01	0	0	0	0	0	0	0	0
7/9/2024 17:13	20403	ASHF_T2	192	153	-39	1.1	0.45	-0.65	0.57	0.57	0	0	0	0	0	0
7/9/2024 17:15	63401	HONY_T1	1	1	0	0.2	0	-0.2	0.36	0.36	1	1	0	600	600	0
7/9/2024 17:17	63401	HONY_T1	1	1	0	0.2	0	-0.2	0.36	0.36	1	1	0	600	600	0
7/9/2024 17:17	20601	GRWO_T2	490	498	8	1.98	1.83	-0.15	1.02	1.03	0	0	0	0	0	0
7/9/2024 17:18	59002	MIFF_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/9/2024 17:18	23401	HONE_T2	223	232	9	1.39	0.9	-0.49	0.44	0.52	0	0	0	0	0	0
7/9/2024 17:18	64202	KINZ_T1	41	47	6	0.52	0.68	0.16	0	0	0	0	0	0	0	0
7/9/2024 17:18	64204	KINZ_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 17:18	63401	HONY_T1	1	1	0	0.2	0	-0.2	0.36	0.36	1	1	0	600	600	0
7/9/2024 17:18	64201	KINZ_T1	17	37	20	0.42	0.42	0	0	0	0	0	0	0	0	0
7/9/2024 17:18	59003	MIFF_T1	186	197	11	1.27	1.2	-0.07	-0.16	-0.09	0	0	0	0	0	0
7/9/2024 17:18	64203	KINZ_T1	2	2	0	1.5	1.1	-0.4	-0.8	-0.93	3	3	0	2100	2100	0
7/9/2024 17:19	64201	KINZ_T1	17	37	20	0.42	0.42	0	0	0	0	0	0	0	0	0
7/9/2024 17:19	64204	KINZ_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 17:19	64203	KINZ_T1	2	2	0	1.5	1.1	-0.4	-0.8	-0.93	3	3	0	2100	2100	0
7/9/2024 17:19	64202	KINZ_T1	41	47	6	0.52	0.68	0.16	0	0	0	0	0	0	0	0
7/9/2024 17:25	57103	SPHI_T2	0	0	0	0	0	0	-0.43	-0.45	1	1	0	600	600	0
7/9/2024 17:25	57101	SPHI_T2	0	6	6	0	0.45	0.45	0	0	0	0	0	0	0	0
7/9/2024 17:25	59101	WALK_T2	0	3	3	0	0.1	0.1	0.31	0.42	3	3	0	1800	1800	0
7/9/2024 17:25	57106	SPHI_T2	2	3	1	0.15	0.37	0.22	0	0	0	0	0	0	0	0
7/9/2024 17:27	44801	EDAN_T2	92	99	7	0.72	0.6	-0.12	1.14	1.15	0	0	0	0	0	0
7/9/2024 17:28	41602	CLEV_T1	199	207	8	1.39	1.3	-0.09	0	0	1	1	0	600	600	0
7/9/2024 17:28	44801	EDAN_T2	92	99	7	0.72	0.6	-0.12	1.14	1.15	0	0	0	0	0	0
7/9/2024 17:30	61702	ELIZ_T2	1	5	4	0.1	0	-0.1	-0.86	-0.81	2	2	0	1500	1500	0
7/9/2024 17:31	44801	EDAN_T2	92	100	8	0.76	0.56	-0.2	1.14	1.15	0	0	0	0	0	0
7/9/2024 17:32	47001	HUGH_T2	5	4	-1	4.68	5.63	0.95	-0.65	-0.66	1	1	0	900	900	0
7/9/2024 17:36	57702	PAXT_T1	0	3	3	0	0	0	-0.08	-0.08	0	0	0	0	0	0
7/9/2024 17:37	47402	PENS_T1	11	16	5	3.25	1.35	-1.9	0	0	0	0	0	0	0	0
7/9/2024 17:37	47401	PENS_T1	15	11	-4	0.83	1	0.17	0.77	0.71	0	0	0	0	0	0
7/9/2024 17:38	64202	KINZ_T1	45	48	3	0.71	0.58	-0.13	0	0	0	0	0	0	0	0
7/9/2024 17:38	64201	KINZ_T1	30	32	2	0.45	0.29	-0.16	0	0	0	0	0	0	0	0
7/9/2024 17:38	57403	SPAN_T1	0	2	2	0	0.3	0.3	0.06	0.07	0	0	0	0	0	0
7/9/2024 17:38	57401	SPAN_T1	17	2	-15	0.58	0.25	-0.33	0	0	0	0	0	0	0	0
7/9/2024 17:38	64203	KINZ_T1	2	2	0	1.1	1.4	0.3	-0.88	-0.97	3	3	0	2100	2100	0
7/9/2024 17:38	64204	KINZ_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 17:39	57403	SPAN_T1	0	2	2	0	0.3	0.3	0.11	0.13	0	0	0	0	0	0
7/9/2024 17:39	47401	PENS_T1	15	11	-4	0.83	1	0.17	0.77	0.71	0	0	0	0	0	0
7/9/2024 17:39	57401	SPAN_T1	17	2	-15	0.58	0.25	-0.33	0	0	0	0	0	0	0	0
7/9/2024 17:39	47402	PENS_T1	11	16	5	3.25	1.35	-1.9	0	0	0	0	0	0	0	0
7/9/2024 17:47	11102	EGYP_T1	5	10	5	1	0.69	-0.31	0	0	0	0	0	0	0	0
7/9/2024 17:47	11101	EGYP_T1	1	4	3	1.4	0.8	-0.6	-0.04	-0.05	1	1	0	1200	1200	0
7/9/2024 17:47	11104	EGYP_T1	7	5	-2	0.37	0.46	0.09	0	0	0	0	0	0	0	0
7/9/2024 17:55	13903	SEID_T1	33	65	32	1	1.09	0.09	0	0	0	0	0	0	0	0
7/9/2024 17:55	47402	PENS_T1	15	12	-3	1.55	0.89	-0.66	0	0	0	0	0	0	0	0
7/9/2024 17:55	13901	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 17:55	13904	SEID_T1	48	47	-1	1	1.21	0.21	-0.31	-0.31	0	0	0	0	0	0
7/9/2024 17:55	13905	SEID_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/9/2024 17:55	47401	PENS_T1	10	7	-3	0.67	0.8	0.13	0.71	0.65	0	0	0	0	0	0
7/9/2024 17:58	13903	SEID_T1	33	65	32	1	1.09	0.09	0	0	0	0	0	0	0	0
7/9/2024 17:58	13905	SEID_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/9/2024 17:58	13904	SEID_T1	48	47	-1	1	1.21	0.21	-0.31	-0.31	0	0	0	0	0	0
7/9/2024 17:58	13901	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 18:00	46001	BERW_T1	3	3	0	0.77	0	-0.77	0.45	0.49	0	0	0	0	0	0
7/9/2024 18:00	61304	EARL_T1	0	0	0	0	0	0	-0.14	-0.1	1	1	0	600	600	0
7/9/2024 18:00	61303	EARL_T1	1	2	1	2.7	0.6	-2.1	0	0	0	0	0	0	0	0
7/9/2024 18:00	61302	EARL_T1	1	2	1	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
7/9/2024 18:01	61303	EARL_T1	1	2	1	2.7	0.6	-2.1	0	0	0	0	0	0	0	0
7/9/2024 18:01	61302	EARL_T1	1	2	1	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
7/9/2024 18:01	61304	EARL_T1	0	0	0	0	0	0	-0.14	-0.1	1	1	0	600	600	0
7/9/2024 18:05	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 18:06	46001	BERW_T1	3	3	0	0.77	0	-0.77	0.49	0.43	0	0	0	0	0	0
7/9/2024 18:08	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 18:10	10702	CATA_T2	4	4	0	0.63	0	-0.63	0	0	0	0	0	0	0	0
7/9/2024 18:10	10701	CATA_T2	5	5	0	0.72	0.3	-0.42	0	0	0	0	0	0	0	0
7/9/2024 18:10	10704	CATA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/9/2024 18:10	10705	CATA_T2	0	0	0	0	0	0	-0.76	-0.75	1	1	0	900	900	0
7/9/2024 18:11	10705	CATA_T2	0	0	0	0	0	0	-0.76	-0.75	1	1	0	900	900	0
7/9/2024 18:11	10702	CATA_T2	4	4	0	0.63	0	-0.63	0	0	0	0	0	0	0	0
7/9/2024 18:11	10704	CATA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/9/2024 18:11	10701	CATA_T2	5	5	0	0.72	0.3	-0.42	0	0	0	0	0	0	0	0
7/9/2024 18:12	10701	CATA_T2	5	5	0	0.72	0.3	-0.42	0	0	0	0	0	0	0	0
7/9/2024 18:12	10705	CATA_T2	0	0	0	0	0	0	-0.76	-0.75	1	1	0	900	900	0
7/9/2024 18:12	10704	CATA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/9/2024 18:12	10702	CATA_T2	4	4	0	0.63	0	-0.63	0	0	0	0	0	0	0	0
7/9/2024 18:13	61701	ELIZ_T1	1	1	0	1.4	1	-0.4	1.82	1.7	0	0	0	0	0	0
7/9/2024 18:13	61703	ELIZ_T1	1	4	3	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
7/9/2024 18:19	48303	ORWI_T2	4	4	0	0.23	0	-0.23	1.13	1.08	0	0	0	0	0	0
7/9/2024 18:19	12601	MACA_T1	9	10	1	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
7/9/2024 18:19	12602	MACA_T1	15	15	0	1	0.75	-0.25	0	0	0	0	0	0	0	0
7/9/2024 18:19	12606	MACA_T1	84	113	29	1.85	1.93	0.08	0.98	1	1	1	0	900	900	0
7/9/2024 18:19	48302	ORWI_T2	160	189	29	1.35	1.21	-0.14	0	0	0	0	0	0	0	0
7/9/2024 18:21	58203	NEWV_T2	134	136	2	1.27	1.09	-0.18	-0.58	-0.59	0	0	0	0	0	0
7/9/2024 18:22	48303	ORWI_T2	4	4	0	0.23	0	-0.23	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/9/2024 18:22	48302	ORWI_T2	160	189	29	1.35	1.21	-0.14	0.23	0.21	0	0	0	0	0	0
7/9/2024 18:29	21501	CEAV_T2	12	12	0	1.87	1.21	-0.66	0	0	0	0	0	0	0	0
7/9/2024 18:29	21502	CEAV_T2	0	0	0	0	0	0	-1.67	-1.69	1	1	0	1200	1200	0
7/9/2024 18:31	64203	KINZ_T1	1	1	0	1	0	-1	-0.97	-1.03	3	3	0	2100	2100	0
7/9/2024 18:31	64202	KINZ_T1	42	26	-16	0.64	0.26	-0.38	0	0	0	0	0	0	0	0
7/9/2024 18:31	64201	KINZ_T1	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
7/9/2024 18:31	64204	KINZ_T1	2	1	-1	0.1	0.7	0.6	0	0	0	0	0	0	0	0
7/9/2024 18:32	64204	KINZ_T1	2	1	-1	0.1	0.7	0.6	0	0	0	0	0	0	0	0
7/9/2024 18:32	64203	KINZ_T1	1	1	0	1	0	-1	-0.97	-1.03	3	3	0	2100	2100	0
7/9/2024 18:32	64201	KINZ_T1	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
7/9/2024 18:32	64202	KINZ_T1	42	26	-16	0.64	0.26	-0.38	0	0	0	0	0	0	0	0
7/9/2024 18:34	48302	ORWI_T2	182	170	-12	1.17	1.22	0.05	0.23	0.21	0	0	0	0	0	0
7/9/2024 18:34	48303	ORWI_T2	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/9/2024 18:37	40603	PIGR_T1	57	64	7	1.44	1.46	0.02	0	0	0	0	0	0	0	0
7/9/2024 18:37	40601	PIGR_T1	15	23	8	0.51	0.56	0.05	1.67	1.56	0	0	0	0	0	0
7/9/2024 18:37	40602	PIGR_T1	33	37	4	0.58	0.56	-0.02	0	0	0	0	0	0	0	0
7/9/2024 18:37	48303	ORWI_T2	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/9/2024 18:37	48302	ORWI_T2	182	170	-12	1.17	1.22	0.05	0.42	0.48	0	0	0	0	0	0
7/9/2024 18:45	11101	EGYP_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/9/2024 18:45	11104	EGYP_T1	5	7	2	1	0.47	-0.53	0	0	0	0	0	0	0	0
7/9/2024 18:45	11103	EGYP_T1	0	0	0	0	0	0	2.2	2.08	0	0	0	0	0	0
7/9/2024 18:45	11102	EGYP_T1	11	9	-2	0.88	0.96	0.08	0	0	0	0	0	0	0	0
7/9/2024 18:50	55003	NEWP_T2	0	1	1	0	0	0	-0.61	-0.56	1	1	0	600	600	0
7/9/2024 18:53	57106	SPHI_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
7/9/2024 18:53	57103	SPHI_T2	0	0	0	0	0	0	0.15	0.16	1	1	0	600	600	0
7/9/2024 18:55	57106	SPHI_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
7/9/2024 18:55	57103	SPHI_T2	0	0	0	0	0	0	0.15	0.16	1	1	0	600	600	0
7/9/2024 18:58	24105	EHAZ_T1	4	4	0	6.5	6.58	0.08	0	0	0	0	0	0	0	0
7/9/2024 18:58	24103	EHAZ_T1	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
7/9/2024 18:58	24101	EHAZ_T1	28	22	-6	0.66	0.94	0.28	0	0	0	0	0	0	0	0
7/9/2024 18:58	24102	EHAZ_T1	22	23	1	0.82	0.83	0.01	0	0	0	0	0	0	0	0
7/9/2024 18:59	63804	HEMP_T1	1	1	0	7.2	7.1	-0.1	-0.81	-0.83	0	0	0	0	0	0
7/9/2024 19:01	24101	EHAZ_T1	22	20	-2	1.07	0.94	-0.13	0	0	0	0	0	0	0	0
7/9/2024 19:01	24102	EHAZ_T1	23	23	0	1.29	0.83	-0.46	0	0	0	0	0	0	0	0
7/9/2024 19:01	24105	EHAZ_T1	4	4	0	6.78	6.5	-0.28	0	0	0	0	0	0	0	0
7/9/2024 19:01	24103	EHAZ_T1	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
7/9/2024 19:05	52006	LING_T2	5	9	4	0.68	1.02	0.34	0	0	0	0	0	0	0	0
7/9/2024 19:05	52004	LING_T2	5	3	-2	0.36	0	-0.36	0.49	0.5	0	0	0	0	0	0
7/9/2024 19:05	52002	LING_T2	45	11	-34	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
7/9/2024 19:06	27605	PIRI_T2	549	573	24	1.05	1.05	0	1.65	1.73	0	0	0	0	0	0
7/9/2024 19:09	57404	SPAN_T2	3	3	0	0.63	0	-0.63	-0.94	-0.91	1	1	0	1200	1200	0
7/9/2024 19:10	57404	SPAN_T2	3	3	0	0.63	0	-0.63	-0.94	-0.91	1	1	0	1200	1200	0
7/9/2024 19:11	40603	PIGR_T1	64	49	-15	1.5	0.91	-0.59	0	0	0	0	0	0	0	0
7/9/2024 19:11	40602	PIGR_T1	29	14	-15	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
7/9/2024 19:11	40601	PIGR_T1	20	15	-5	0.61	0.52	-0.09	0.53	0.54	0	0	0	0	0	0
7/9/2024 19:13	13902	SEID_T1	6	0	-6	0.97	0	-0.97	0	0	0	0	0	0	0	0
7/9/2024 19:13	13903	SEID_T1	38	54	16	1.01	0.85	-0.16	0.85	0.8	1	1	0	600	600	0
7/9/2024 19:13	13904	SEID_T1	43	57	14	1.09	1.18	0.09	0	0	0	0	0	0	0	0
7/9/2024 19:16	64202	KINZ_T1	9	17	8	0.38	0.38	0	0	0	0	0	0	0	0	0
7/9/2024 19:16	64203	KINZ_T1	0	0	0	0	0	0	-1.09	-1.01	3	3	0	2100	2100	0
7/9/2024 19:16	64204	KINZ_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
7/9/2024 19:17	64202	KINZ_T1	9	17	8	0.38	0.38	0	0	0	0	0	0	0	0	0
7/9/2024 19:17	64204	KINZ_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
7/9/2024 19:17	64203	KINZ_T1	0	0	0	0	0	0	-1.09	-1.01	3	3	0	2100	2100	0
7/9/2024 19:18	65004	NEFF_T2	0	0	0	0	0	0	-0.16	-0.2	1	1	0	600	600	0
7/9/2024 19:18	61701	ELIZ_T1	1	2	1	1.6	2	0.4	1.79	1.81	0	0	0	0	0	0
7/9/2024 19:19	64902	MILL_T2	0	0	0	0	0	0	-0.24	-0.25	1	1	0	900	900	0
7/9/2024 19:19	64903	MILL_T2	25	29	4	0.38	0.5	0.12	0	0	0	0	0	0	0	0
7/9/2024 19:20	64904	MILL_T1	0	0	0	0	0	0	0.05	-0.09	0	0	0	0	0	0
7/9/2024 19:20	51702	OBER_T1	3	4	1	0.6	0.75	0.15	-0.95	-0.97	1	1	0	600	600	0
7/9/2024 19:22	51702	OBER_T1	3	4	1	0.6	0.75	0.15	-0.97	-0.98	1	1	0	600	600	0
7/9/2024 19:25	43402	BENT_T1	1	5	4	0.1	0.63	0.53	-1.26	-1.32	2	2	0	1800	1800	0
7/9/2024 19:25	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 19:31	12304	LANA_T2	6	11	5	0.43	0.28	-0.15	0	0	0	0	0	0	0	0
7/9/2024 19:31	12301	LANA_T2	4	2	-2	0.38	0	-0.38	-0.72	-0.75	1	1	0	1200	1200	0
7/9/2024 19:31	12305	LANA_T2	7	1	-6	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/9/2024 19:32	12606	MACA_T1	97	91	-6	1.82	1.87	0.05	0	0	0	0	0	0	0	0
7/9/2024 19:32	12602	MACA_T1	9	17	8	1.29	0.7	-0.59	0	0	0	0	0	0	0	0
7/9/2024 19:32	12601	MACA_T1	5	5	0	0.56	0.3	-0.26	1.66	1.68	0	0	0	0	0	0
7/9/2024 19:43	61102	BERK_T5	0	0	0	0	0	0	-0.27	-0.26	2	2	0	1500	1500	0
7/9/2024 19:46	29401	BELT_T1	39	42	3	0.94	1.04	0.1	0	0	1	1	0	900	900	0
7/9/2024 19:46	29402	BELT_T1	1	12	11	7.8	1.8	-6	0	0	0	0	0	0	0	0
7/9/2024 19:47	54503	ENOL_T2	0	0	0	0	0	0	-2.15	-1.23	1	1	0	600	600	0
7/9/2024 20:03	53802	MBRG_T2	1	3	2	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/9/2024 20:03	53803	MBRG_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
7/9/2024 20:03	22701	MINO_T1	0	0	0	0	0	0	-0.05	-0.03	1	1	0	600	600	0
7/9/2024 20:03	53801	MBRG_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/9/2024 20:09	14801	TREI_T2	232	235	3	3.18	2.78	-0.4	0	0	0	0	0	0	0	0
7/9/2024 20:09	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 20:10	24901	WHHA_T1	2	1	-1	0.55	0.7	0.15	-0.11	-0.14	0	0	0	0	0	0
7/9/2024 20:10	24902	WHHA_T1	8	18	10	0.56	0.48	-0.08	0	0	0	0	0	0	0	0
7/9/2024 20:13	66504	SMAN_T2	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
7/9/2024 20:13	56802	BENV_T2	3	2	-1	1.8	0	-1.8	-0.39	-0.44	0	0	0	0	0	0
7/9/2024 20:14	56802	BENV_T2	3	2	-1	1.8	0	-1.8	-0.39	-0.44	0	0	0	0	0	0
7/9/2024 20:15	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 20:25	43301	WATS_T2	2	2	0	1.25	0.3	-0.95	0	0	0	0	0	0	0	0
7/9/2024 20:25	43304	WATS_T2	76	97	21	1.04	0.95	-0.09	-0.8	-0.86	1	1	0	600	600	0
7/9/2024 20:30	40502	CRES_T2	93	107	14	0.69	0.67	-0.02	0.36	0.32	0	0	0	0	0	0
7/9/2024 20:30	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 20:36	13503	MCMI_T2	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
7/9/2024 20:49	64202	KINZ_T1	3	2	-1	0.67	0.7	0.03	0	0	0	0	0	0	0	0
7/9/2024 20:49	64203	KINZ_T1	0	0	0	0	0	0	-1.23	-1.23	3	3	0	2100	2100	0
7/9/2024 20:49	64204	KINZ_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
7/9/2024 20:59	56802	BENV_T2	0	1	1	0	0.2	0.2	-0.5	-0.48	0	0	0	0	0	0
7/9/2024 21:02	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 21:03	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 21:05	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 21:10	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 21:24	44601	SALE_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
7/9/2024 21:27	44601	SALE_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
7/9/2024 21:27	64204	KINZ_T1	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
7/9/2024 21:27	64202	KINZ_T1	2	2	0	1.6	0.4	-1.2	0	0	0	0	0	0	0	0
7/9/2024 21:27	64203	KINZ_T1	0	0	0	0	0	0	-1.27	-1.28	3	3	0	2100	2100	0
7/9/2024 21:28	64203	KINZ_T1	0	0	0	0	0	0	-1.27	-1.28	3	3	0	2100	2100	0
7/9/2024 21:28	64202	KINZ_T1	2	2	0	1.6	0.4	-1.2	0	0	0	0	0	0	0	0
7/9/2024 21:28	64204	KINZ_T1	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
7/9/2024 21:29	58803	COCO_T1	1	1	0	0.2	0.7	0.5	-0.49	-0.52	1	1	0	600	600	0
7/9/2024 22:22	41301	FISH_T1	1	1	0	1.9	1.5	-0.4	-0.26	-0.29	0	0	0	0	0	0
7/9/2024 22:22	41303	FISH_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/9/2024 22:28	61702	ELIZ_T2	0	0	0	0	0	0	-1.17	-1.23	2	2	0	1500	1500	0
7/9/2024 22:28	47401	PENS_T1	1	0	-1	0.2	0	-0.2	0.58	0.53	0	0	0	0	0	0
7/9/2024 22:28	47402	PENS_T1	2	2	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
7/9/2024 22:29	61801	ELLI_T2	0	0	0	0	0	0	0.3	0.25	0	0	0	0	0	0
7/9/2024 22:29	63804	HEMP_T1	1	1	0	7.5	7.4	-0.1	0.08	0.02	0	0	0	0	0	0
7/9/2024 22:30	65604	QVIL_T2	0	0	0	0	0	0	0.98	0.95	0	0	0	0	0	0
7/9/2024 22:30	20603	GRWO_T2	0	0	0	0	0	0	-0.24	-0.26	1	1	0	900	900	0
7/9/2024 22:30	20601	GRWO_T2	127	63	-64	0.76	0.34	-0.42	0	0	0	0	0	0	0	0
7/9/2024 22:31	13903	SEID_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/9/2024 22:31	61701	ELIZ_T1	1	1	0	2.7	3.1	0.4	1.23	1.3	0	0	0	0	0	0
7/9/2024 22:31	29402	BELT_T1	1	1	0	6.9	6.6	-0.3	0	0	0	0	0	0	0	0
7/9/2024 22:31	13904	SEID_T1	41	35	-6	0.85	0.51	-0.34	-0.37	-0.37	0	0	0	0	0	0
7/9/2024 22:31	29401	BELT_T1	32	30	-2	0.63	0.47	-0.16	0	0	1	1	0	900	900	0
7/9/2024 22:32	65802	RTWN_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
7/9/2024 22:32	62105	ELAN_T1	4	4	0	2.93	1.85	-1.08	0	0	0	0	0	0	0	0
7/9/2024 22:32	47001	HUGH_T2	10	3	-7	2.55	7.77	5.22	-1.31	-1.34	1	1	0	900	900	0
7/9/2024 22:32	65001	NEFF_T2	0	0	0	0	0	0	-0.18	-0.12	1	1	0	1200	1200	0
7/9/2024 22:32	62102	ELAN_T1	0	0	0	0	0	0	-0.36	-0.33	0	0	0	0	0	0
7/9/2024 22:33	20601	GRWO_T2	127	63	-64	0.76	0.34	-0.42	0.6	0.56	0	0	0	0	0	0
7/9/2024 22:33	63804	HEMP_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
7/9/2024 22:33	24102	EHAZ_T1	3	2	-1	0.37	0.4	0.03	0	0	0	0	0	0	0	0
7/9/2024 22:33	24103	EHAZ_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
7/9/2024 22:33	29402	BELT_T1	1	1	0	6.9	6.6	-0.3	0	0	0	0	0	0	0	0
7/9/2024 22:33	24105	EHAZ_T1	4	4	0	5.7	5.78	0.08	0	0	0	0	0	0	0	0
7/9/2024 22:33	47402	PENS_T1	2	2	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/9/2024 22:33	24101	EHAZ_T1	6	8	2	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
7/9/2024 22:33	29401	BELT_T1	32	30	-2	0.63	0.47	-0.16	0	0	1	1	0	900	900	0
7/9/2024 22:33	24104	EHAZ_T1	11	10	-1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
7/9/2024 22:33	47401	PENS_T1	0	0	0	0	0	0	0.58	0.53	0	0	0	0	0	0
7/9/2024 22:33	63801	HEMP_T1	0	0	0	0	0	0	-0.32	-0.39	1	1	0	900	900	0
7/9/2024 22:34	48301	ORWI_T1	2	2	0	4.2	4.7	0.5	-0.4	-0.42	1	1	0	900	900	0
7/9/2024 22:34	45303	WBER_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 22:34	48302	ORWI_T2	1	0	-1	0.1	0	-0.1	-0.11	-0.15	0	0	0	0	0	0
7/9/2024 22:34	45302	WBER_T2	0	0	0	0	0	0	1.46	1.45	0	0	0	0	0	0
7/9/2024 22:34	23202	HIRU_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
7/9/2024 22:34	64904	MILL_T1	0	0	0	0	0	0	-0.46	-0.6	0	0	0	0	0	0
7/9/2024 22:34	10702	CATA_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/9/2024 22:34	10705	CATA_T2	0	0	0	0	0	0	-1.2	-1.16	1	1	0	900	900	0
7/9/2024 22:34	63801	HEMP_T1	0	0	0	0	0	0	-0.32	-0.39	1	1	0	900	900	0
7/9/2024 22:34	63804	HEMP_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
7/9/2024 22:35	22701	MINO_T1	0	0	0	0	0	0	-0.28	-0.28	1	1	0	600	600	0
7/9/2024 22:35	22905	HARW_T1	23	28	5	1.19	0.81	-0.38	0	0	0	0	0	0	0	0
7/9/2024 22:35	22903	HARW_T1	2	8	6	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/9/2024 22:35	20402	ASHF_T2	12	9	-3	1.78	1.8	0.02	0	0	0	0	0	0	0	0
7/9/2024 22:35	47401	PENS_T1	0	0	0	0	0	0	0.58	0.53	0	0	0	0	0	0
7/9/2024 22:35	29401	BELT_T1	32	30	-2	0.63	0.47	-0.16	0	0	0	0	0	0	0	0
7/9/2024 22:35	29402	BELT_T1	1	1	0	6.9	6.6	-0.3	0	0	0	0	0	0	0	0
7/9/2024 22:35	22901	HARW_T1	0	4	4	0	0	0	-0.02	-0.16	1	1	0	1200	1200	0
7/9/2024 22:35	47402	PENS_T1	2	2	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/9/2024 22:35	20403	ASHF_T2	0	1	1	0	0	0	-0.17	-0.28	0	0	0	0	0	0
7/9/2024 22:36	47101	MARL_T1	119	90	-29	1.25	1.23	-0.02	-0.61	-0.68	1	1	0	600	600	0
7/9/2024 22:36	12602	MACA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 22:36	47104	MARL_T1	21	19	-2	1.29	0.21	-1.08	0	0	0	0	0	0	0	0
7/9/2024 22:36	12402	MILF_T1	7	8	1	0.44	0.55	0.11	0.46	0.42	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/9/2024 22:36	24102	EHAZ_T1	3	2	-1	0.37	0.4	0.03	0	0	0	0	0	0	0	0
7/9/2024 22:36	11103	EGYP_T1	0	0	0	0	0	0	1.62	1.7	0	0	0	0	0	0
7/9/2024 22:36	24105	EHAZ_T1	4	4	0	5.7	5.78	0.08	0	0	0	0	0	0	0	0
7/9/2024 22:36	15704	TANN_T1	2	3	1	1.75	3.3	1.55	0	0	0	0	0	0	0	0
7/9/2024 22:36	60501	NMAN_T2	3	3	0	3.9	4.73	0.83	0	0	0	0	0	0	0	0
7/9/2024 22:36	40302	TAMA_T3	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
7/9/2024 22:36	40301	TAMA_T3	4	3	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/9/2024 22:36	46302	ROHR_T1	2	4	2	0.95	1.18	0.23	0.41	0.39	0	0	0	0	0	0
7/9/2024 22:36	11101	EGYP_T1	0	0	0	0	0	0	-0.33	-0.38	1	1	0	1200	1200	0
7/9/2024 22:36	66505	SMAN_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/9/2024 22:36	12606	MACA_T1	41	47	6	1.83	1.47	-0.36	0.75	0.62	1	1	0	900	900	0
7/9/2024 22:36	43301	WATS_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
7/9/2024 22:36	43304	WATS_T2	26	158	132	0.6	0.43	-0.17	-0.68	-0.62	0	0	0	0	0	0
7/9/2024 22:36	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 22:36	27605	PIRI_T2	211	162	-49	1.09	0.98	-0.11	1.39	1.3	0	0	0	0	0	0
7/9/2024 22:36	66504	SMAN_T2	0	0	0	0	0	0	-0.88	-1.04	0	0	0	0	0	0
7/9/2024 22:36	67603	WARW_T1	0	0	0	0	0	0	-0.26	-0.32	0	0	0	0	0	0
7/9/2024 22:36	24104	EHAZ_T1	11	10	-1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
7/9/2024 22:36	11102	EGYP_T1	7	12	5	0.61	0.3	-0.31	0	0	0	0	0	0	0	0
7/9/2024 22:36	40502	CRES_T2	16	7	-9	0.36	0.17	-0.19	0.06	-0.01	0	0	0	0	0	0
7/9/2024 22:36	15701	TANN_T1	1	1	0	4.5	4.6	0.1	0	0	0	0	0	0	0	0
7/9/2024 22:36	24103	EHAZ_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
7/9/2024 22:36	24101	EHAZ_T1	6	8	2	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
7/9/2024 22:36	67605	WARW_T1	3	3	0	0.5	0.67	0.17	0	0	0	0	0	0	0	0
7/9/2024 22:36	60502	NMAN_T2	0	0	0	0	0	0	0.23	0.17	0	0	0	0	0	0
7/9/2024 22:37	43301	WATS_T2	1	1	0	1	0	-1	-0.1	-0.12	1	1	0	900	900	0
7/9/2024 22:37	61802	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 22:37	64202	KINZ_T1	1	0	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/9/2024 22:37	63403	HONY_T2	0	0	0	0	0	0	-0.96	-0.44	0	0	0	0	0	0
7/9/2024 22:37	22903	HARW_T1	2	8	6	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/9/2024 22:37	63402	HONY_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/9/2024 22:37	44801	EDAN_T2	1	1	0	1.5	1.1	-0.4	0.94	0.95	0	0	0	0	0	0
7/9/2024 22:37	61801	EELI_T2	0	0	0	0	0	0	0.25	0.4	0	0	0	0	0	0
7/9/2024 22:37	47401	PENS_T1	0	0	0	0	0	0	0.53	0.57	0	0	0	0	0	0
7/9/2024 22:37	22901	HARW_T1	0	4	4	0	0	0	-0.16	-0.03	1	1	0	1200	1200	0
7/9/2024 22:37	61701	ELIZ_T1	1	1	0	2.7	3.1	0.4	0	0	0	0	0	0	0	0
7/9/2024 22:37	64203	KINZ_T1	0	0	0	0	0	0	0.13	0.12	1	1	0	600	600	0
7/9/2024 22:37	20601	GRWO_T2	127	63	-64	0.76	0.34	-0.42	0.56	0.55	0	0	0	0	0	0
7/9/2024 22:37	43304	WATS_T2	26	158	132	0.6	0.43	-0.17	-0.68	-0.62	0	0	0	0	0	0
7/9/2024 22:37	61703	ELIZ_T1	0	0	0	0	0	0	-2.43	-2.45	2	2	0	2100	2100	0
7/9/2024 22:37	66701	STRA_T1	0	1	1	0	0	0	0.79	0.74	1	1	0	600	600	0
7/9/2024 22:37	67605	WARW_T1	3	3	0	0.5	0.67	0.17	-1.01	-1.09	0	0	0	0	0	0
7/9/2024 22:37	61505	EPET_T1	0	0	0	0	0	0	1.27	1.22	0	0	0	0	0	0
7/9/2024 22:37	64204	KINZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/9/2024 22:37	13503	MCMI_T2	0	0	0	0	0	0	-1.05	-1.07	0	0	0	0	0	0
7/9/2024 22:37	22905	HARW_T1	23	28	5	1.19	0.81	-0.38	0	0	0	0	0	0	0	0
7/9/2024 22:37	47402	PENS_T1	2	2	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/9/2024 22:38	43304	WATS_T2	26	158	132	0.6	0.43	-0.17	-2.03	-1.85	0	0	0	0	0	0
7/9/2024 22:38	10702	CATA_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/9/2024 22:38	60104	COCA_T2	0	0	0	0	0	0	-0.28	-0.27	1	1	0	600	600	0
7/9/2024 22:38	22901	HARW_T1	0	4	4	0	0	0	-0.16	-0.03	1	1	0	1200	1200	0
7/9/2024 22:38	11104	EGYP_T1	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
7/9/2024 22:38	11102	EGYP_T1	7	12	5	0.61	0.3	-0.31	0	0	0	0	0	0	0	0
7/9/2024 22:38	61102	BERK_T5	0	0	0	0	0	0	0.69	0.5	2	2	0	600	600	0
7/9/2024 22:38	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/9/2024 22:38	48302	ORWI_T2	1	0	-1	0.1	0	-0.1	-0.31	-0.37	0	0	0	0	0	0
7/9/2024 22:38	60701	BREC_T1	0	0	0	0	0	0	-0.08	-0.13	1	1	0	600	600	0
7/9/2024 22:38	40601	PIGR_T1	0	0	0	0	0	0	0.42	0.46	0	0	0	0	0	0
7/9/2024 22:38	40603	PIGR_T1	21	14	-7	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
7/9/2024 22:38	10705	CATA_T2	0	0	0	0	0	0	-1.16	-1.18	1	1	0	900	900	0
7/9/2024 22:38	61303	EARL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/9/2024 22:38	59003	MIFF_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
7/9/2024 22:38	65901	SAKR_T2	1	1	0	7.3	7.5	0.2	-0.82	-0.86	2	2	0	1500	1500	0
7/9/2024 22:38	40101	HUNT_T2	25	11	-14	0.63	0.33	-0.3	-1.33	-1.37	0	0	0	0	0	0
7/9/2024 22:38	61703	ELIZ_T1	0	0	0	0	0	0	-2.43	-2.45	2	2	0	2100	2100	0
7/9/2024 22:38	22903	HARW_T1	2	8	6	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/9/2024 22:38	61304	EARL_T1	0	0	0	0	0	0	-0.69	-0.77	1	1	0	600	600	0
7/9/2024 22:38	61701	ELIZ_T1	1	1	0	2.7	3.1	0.4	0	0	0	0	0	0	0	0
7/9/2024 22:38	22905	HARW_T1	23	28	5	1.19	0.81	-0.38	0	0	0	0	0	0	0	0
7/9/2024 22:38	24902	WHHA_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
7/9/2024 22:38	43301	WATS_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
7/9/2024 22:38	46001	BERW_T1	0	0	0	0	0	0	1.35	1.3	0	0	0	0	0	0
7/9/2024 22:38	67605	WARW_T1	3	3	0	0.5	0.67	0.17	-1.01	-1.09	0	0	0	0	0	0
7/9/2024 22:38	64101	REFR_T1	0	0	0	0	0	0	0.05	-0.03	0	0	0	0	0	0
7/9/2024 22:39	63304	GREE_T1	6	0	-6	0.25	0	-0.25	-2.33	-2.39	0	0	0	0	0	0
7/9/2024 22:39	20601	GRWO_T2	127	63	-64	0.76	0.34	-0.42	0	0	0	0	0	0	0	0
7/9/2024 22:39	20403	ASHF_T2	0	1	1	0	0	0	-0.28	0.92	0	0	0	0	0	0
7/9/2024 22:39	40603	PIGR_T1	21	14	-7	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
7/9/2024 22:39	44702	MUNC_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/9/2024 22:39	25404	LAHA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 22:39	11102	EGYP_T1	7	12	5	0.61	0.3	-0.31	0	0	0	0	0	0	0	0
7/9/2024 22:39	11507	FREE_T2	23	25	2	0.71	0.66	-0.05	1	1.05	1	1	0	600	600	0
7/9/2024 22:39	67804	WLAN_T1	6	10	4	0.43	0.67	0.24	0	0	0	0	0	0	0	0
7/9/2024 22:39	43402	BENT_T1	0	0	0	0	0	0	-0.75	-0.74	1	1	0	900	900	0
7/9/2024 22:39	48302	ORWI_T2	1	0	-1	0.1	0	-0.1	0.15	-0.18	0	0	0	0	0	0
7/9/2024 22:39	43202	MVIL_T2	1	2	1	0.1	0	-0.1	-0.5	-0.51	0	0	0	0	0	0
7/9/2024 22:39	61102	BERK_T5	0	0	0	0	0	0	0.69	0.5	2	2	0	600	600	0
7/9/2024 22:39	64902	MILL_T2	1	1	0	1.4	0	-1.4	-0.55	-0.56	1	1	0	900	900	0
7/9/2024 22:39	43301	WATS_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
7/9/2024 22:39	64101	REFR_T1	0	0	0	0	0	0	0.05	-0.03	0	0	0	0	0	0
7/9/2024 22:39	59003	MIFF_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
7/9/2024 22:39	43304	WATS_T2	26	158	132	0.6	0.43	-0.17	-0.68	-0.62	0	0	0	0	0	0
7/9/2024 22:39	40602	PIGR_T1	0	0	0	0	0	0	-1.13	-1.18	1	1	0	600	600	0
7/9/2024 22:39	60502	NMAN_T2	0	0	0	0	0	0	0.23	0.17	0	0	0	0	0	0
7/9/2024 22:39	47401	PENS_T1	0	0	0	0	0	0	0.53	0.57	0	0	0	0	0	0
7/9/2024 22:39	60701	BREC_T1	0	0	0	0	0	0	-0.08	-0.13	1	1	0	600	600	0
7/9/2024 22:39	65205	PRIN_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
7/9/2024 22:39	20402	ASHF_T2	12	9	-3	1.78	1.8	0.02	0	0	0	0	0	0	0	0
7/9/2024 22:39	67801	WLAN_T1	1	87	86	0.8	0.51	-0.29	0.29	0.37	0	0	0	0	0	0
7/9/2024 22:39	16302	ALPA_T2	0	0	0	0	0	0	-0.1	-0.22	0	0	0	0	0	0
7/9/2024 22:39	64903	MILL_T2	13	0	-13	0.18	0	-0.18	0	0	0	0	0	0	0	0
7/9/2024 22:39	60501	NMAN_T2	3	3	0	3.9	4.73	0.83	0	0	0	0	0	0	0	0
7/9/2024 22:39	45602	WOOL_T1	32	2	-30	0.39	0.7	0.31	0.58	0.56	0	0	0	0	0	0
7/9/2024 22:39	55001	NEWP_T1	0	0	0	0	0	0	-0.33	-0.38	0	0	0	0	0	0
7/9/2024 22:39	59101	WALK_T2	0	0	0	0	0	0	0.21	0.75	2	1	-1	1200	600	-600
7/9/2024 22:39	11104	EGYP_T1	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
7/9/2024 22:39	29402	BELT_T1	1	1	0	6.9	6.6	-0.3	0	0	0	0	0	0	0	0
7/9/2024 22:39	44703	MUNC_T2	0	1	1	0	0	0	1.1	1.02	0	0	0	0	0	0
7/9/2024 22:39	20603	GRWO_T2	0	0	0	0	0	0	-0.26	-0.29	1	1	0	900	900	0
7/9/2024 22:39	25402	LAHA_T2	0	0	0	0	0	0	-0.55	-0.6	0	0	0	0	0	0
7/9/2024 22:39	65901	SAKR_T2	1	1	0	7.3	7.5	0.2	-0.82	-0.86	2	2	0	1500	1500	0
7/9/2024 22:39	26401	INOR_T1	1	1	0	6.1	6.6	0.5	1.07	1.04	0	0	0	0	0	0
7/9/2024 22:39	47001	HUGH_T2	10	3	-7	2.55	7.77	5.22	-1.34	-1.41	1	1	0	900	900	0
7/9/2024 22:39	40601	PIGR_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
7/9/2024 22:39	63305	GREE_T1	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/9/2024 22:39	29401	BELT_T1	32	30	-2	0.63	0.47	-0.16	0	0	0	0	0	0	0	0
7/9/2024 22:39	47402	PENS_T1	2	2	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/9/2024 22:40	66505	SMAN_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/9/2024 22:40	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/9/2024 22:40	64202	KINZ_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/9/2024 22:40	12305	LANA_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/9/2024 22:40	40603	PIGR_T1	21	14	-7	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
7/9/2024 22:40	43301	WATS_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
7/9/2024 22:40	63804	HEMP_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
7/9/2024 22:40	66504	SMAN_T2	0	0	0	0	0	0	-0.44	-0.52	0	0	0	0	0	0
7/9/2024 22:40	52002	LING_T2	0	0	0	0	0	0	0	0.12	2	2	0	1800	1800	0
7/9/2024 22:40	64204	KINZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/9/2024 22:40	43304	WATS_T2	26	158	132	0.6	0.43	-0.17	-0.68	-0.62	0	0	0	0	0	0
7/9/2024 22:40	12301	LANA_T2	0	0	0	0	0	0	-0.78	-0.81	1	1	0	1200	1200	0
7/9/2024 22:40	11504	FREE_T1	0	0	0	0	0	0	-1.69	-1.58	2	2	0	2100	2100	0
7/9/2024 22:40	60803	BUCK_T1	10	0	-10	0.18	0	-0.18	-0.23	-0.21	1	1	0	600	600	0
7/9/2024 22:40	40602	PIGR_T1	0	0	0	0	0	0	-2.26	-2.35	2	2	0	1200	1200	0
7/9/2024 22:40	66701	STRA_T1	0	1	1	0	0	0	0.79	0.74	1	1	0	600	600	0
7/9/2024 22:40	46203	DANV_T2	5	5	0	0.32	0.58	0.26	0	0	0	0	0	0	0	0
7/9/2024 22:40	64201	KINZ_T1	0	0	0	0	0	0	-0.7	-0.76	4	4	0	2100	2100	0
7/9/2024 22:40	55408	SHER_T2	1	1	0	1.7	2.1	0.4	-0.52	-0.55	1	1	0	1200	1200	0
7/9/2024 22:40	46206	DANV_T2	56	53	-3	0.61	0.54	-0.07	2.07	2.08	2	2	0	2100	2100	0
7/9/2024 22:40	59101	WALK_T2	0	0	0	0	0	0	0.21	0.75	2	1	-1	1200	600	-600
7/9/2024 22:40	61102	BERK_T5	0	0	0	0	0	0	0.69	0.5	2	2	0	600	600	0
7/9/2024 22:40	63801	HEMP_T1	0	0	0	0	0	0	-0.39	-0.4	1	1	0	900	900	0
7/9/2024 22:40	60701	BREC_T1	0	0	0	0	0	0	-0.08	-0.13	1	1	0	600	600	0
7/9/2024 22:41	52403	GRPA_T2	73	85	12	0.98	1.33	0.35	0	0	0	0	0	0	0	0
7/9/2024 22:41	11903	ETEX_T1	2	2	0	1.1	0	-1.1	1.07	1.04	0	0	0	0	0	0
7/9/2024 22:41	52404	GRPA_T2	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
7/9/2024 22:41	61801	EELI_T2	0	0	0	0	0	0	0.25	0.4	0	0	0	0	0	0
7/9/2024 22:41	25503	MADI_T1	0	0	0	0	0	0	-0.45	-0.5	0	0	0	0	0	0
7/9/2024 22:41	67605	WARW_T1	3	3	0	0.5	0.67	0.17	-1.01	-1.09	0	0	0	0	0	0
7/9/2024 22:41	61102	BERK_T5	0	0	0	0	0	0	0.35	0.25	1	1	0	300	300	0
7/9/2024 22:41	56801	BENV_T1	6	6	0	1.08	1.38	0.3	-0.09	-0.13	1	1	0	600	600	0
7/9/2024 22:41	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 22:41	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 22:41	12006	HATF_T1	0	0	0	0	0	0	-0.26	-0.2	2	2	0	2400	2400	0
7/9/2024 22:41	56803	BENV_T1	3	3	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/9/2024 22:41	12302	LANA_T2	0	0	0	0	0	0	-1.96	-1.95	3	3	0	2700	2700	0
7/9/2024 22:41	64101	REFR_T1	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
7/9/2024 22:41	66505	SMAN_T2	1	0	-1	0.6	0	-0.6	-0.15	-0.11	3	3	0	2100	2100	0
7/9/2024 22:41	52402	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 22:41	61802	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 22:41	12002	HATF_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/9/2024 22:41	21502	CEAV_T2	0	0	0	0	0	0	-1	-0.97	1	1	0	1200	1200	0
7/9/2024 22:41	12305	LANA_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/9/2024 22:42	56801	BENV_T1	6	6	0	1.08	1.38	0.3	-0.37	-0.52	4	4	0	2400	2400	0
7/9/2024 22:42	46302	ROHR_T1	2	4	2	0.95	1.18	0.23	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/9/2024 22:42	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/9/2024 22:42	46301	ROHR_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
7/9/2024 22:42	56803	BENV_T1	3	3	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/9/2024 22:42	16301	ALPA_T1	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
7/9/2024 22:42	41901	REED_T1	2	8	6	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
7/9/2024 22:42	49804	UNIV_T1	0	2	2	0	0.1	0.1	1.16	1.18	0	0	0	0	0	0
7/9/2024 22:42	67902	WNHO_T2	0	0	0	0	0	0	0.14	0.12	2	2	0	2100	2100	0
7/9/2024 22:42	47101	MARL_T1	119	90	-29	1.25	1.23	-0.02	-0.68	-0.68	1	1	0	600	600	0
7/9/2024 22:42	53601	DALM_T2	1	1	0	0.4	0.6	0.2	0.19	0.16	0	0	0	0	0	0
7/9/2024 22:42	52402	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 22:42	41902	REED_T1	47	21	-26	0.65	0.55	-0.1	0.47	0.44	1	1	0	900	900	0
7/9/2024 22:42	52401	GRPA_T2	0	1	1	0	0	0	-0.1	-0.16	0	0	0	0	0	0
7/9/2024 22:42	52403	GRPA_T2	73	85	12	0.98	1.33	0.35	0	0	0	0	0	0	0	0
7/9/2024 22:42	63401	HONY_T1	0	0	0	0	0	0	0	-0.29	1	1	0	600	600	0
7/9/2024 22:42	47104	MARL_T1	21	19	-2	1.29	0.21	-1.08	0	0	0	0	0	0	0	0
7/9/2024 22:42	64204	KINZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/9/2024 22:42	64202	KINZ_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/9/2024 22:42	64801	MONE_T2	0	0	0	0	0	0	0.04	-0.06	0	0	0	0	0	0
7/9/2024 22:42	61102	BERK_T5	0	0	0	0	0	0	0.69	0.5	2	2	0	600	600	0
7/9/2024 22:42	40101	HUNT_T2	25	11	-14	0.63	0.33	-0.3	-2.67	-2.75	0	0	0	0	0	0
7/9/2024 22:42	64802	MONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/9/2024 22:42	64201	KINZ_T1	0	0	0	0	0	0	-1.39	-1.51	8	8	0	4200	4200	0
7/9/2024 22:42	42701	AUGU_T1	23	19	-4	0.46	0.45	-0.01	0	0	2	2	0	1800	1800	0
7/9/2024 23:43	11802	FRAN_T1	27	18	-9	1.22	0.47	-0.75	0	0	0	0	0	0	0	0
7/9/2024 23:43	13904	SEID_T1	41	35	-6	0.85	0.51	-0.34	0	0	0	0	0	0	0	0
7/9/2024 23:43	47401	PENS_T1	0	0	0	0	0	0	0.53	0.57	0	0	0	0	0	0
7/9/2024 23:43	45701	LIND_T2	2	2	0	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/9/2024 23:43	61102	BERK_T5	0	0	0	0	0	0	0.35	0.25	1	1	0	300	300	0
7/9/2024 23:43	20402	ASHF_T2	12	9	-3	1.78	1.8	0.02	0	0	0	0	0	0	0	0
7/9/2024 23:43	66505	SMAN_T2	1	0	-1	0.6	0	-0.6	-0.15	-0.11	3	3	0	2100	2100	0
7/9/2024 23:43	44801	EDAN_T2	1	1	0	1.5	1.1	-0.4	0.94	0.95	0	0	0	0	0	0
7/9/2024 23:43	67605	WARW_T1	3	3	0	0.5	0.67	0.17	-1.01	-1.09	0	0	0	0	0	0
7/9/2024 23:43	55101	WERT_T1	0	0	0	0	0	0	-2.21	-2.15	4	4	0	3300	3300	0
7/9/2024 23:43	11804	FRAN_T1	246	242	-4	1.52	1.1	-0.42	-0.24	-0.33	1	1	0	1200	1200	0
7/9/2024 23:43	61703	ELIZ_T1	0	0	0	0	0	0	-7.29	-7.35	6	6	0	6300	6300	0
7/9/2024 23:43	20403	ASHF_T2	0	1	1	0	0	0	-0.28	0.92	0	0	0	0	0	0
7/9/2024 23:43	47101	MARL_T1	119	90	-29	1.25	1.23	-0.02	-0.68	-0.68	1	1	0	600	600	0
7/9/2024 23:43	10705	CATA_T2	0	0	0	0	0	0	-1.16	-1.18	1	1	0	900	900	0
7/9/2024 23:43	45702	LIND_T2	0	0	0	0	0	0	-1.26	-1.33	0	0	0	0	0	0
7/9/2024 23:43	52401	GRPA_T2	0	1	1	0	0	0	-0.1	-0.16	0	0	0	0	0	0
7/9/2024 23:43	64201	KINZ_T1	0	0	0	0	0	0	-0.7	-0.76	4	4	0	2100	2100	0
7/9/2024 23:43	64204	KINZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/9/2024 23:43	67503	WEWI_T2	0	1	1	0	0	0	0.09	0.1	0	0	0	0	0	0
7/9/2024 23:43	52402	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 23:43	60701	BREC_T1	0	0	0	0	0	0	-0.24	-0.4	3	3	0	1800	1800	0
7/9/2024 23:43	64202	KINZ_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/9/2024 23:43	52403	GRPA_T2	73	85	12	0.98	1.33	0.35	0	0	0	0	0	0	0	0
7/9/2024 23:43	40602	PIGR_T1	0	0	0	0	0	0	-1.13	-1.18	1	1	0	600	600	0
7/9/2024 23:43	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 23:43	47104	MARL_T1	21	19	-2	1.29	0.21	-1.08	0	0	0	0	0	0	0	0
7/9/2024 23:43	13903	SEID_T1	1	0	-1	0.3	0	-0.3	0.64	0.59	1	1	0	600	600	0
7/9/2024 23:43	46203	DANV_T2	5	5	0	0.32	0.58	0.26	-1	-1	0	0	0	0	0	0
7/9/2024 23:43	67904	WNHO_T1	0	0	0	0	0	0	-1.81	-1.81	2	2	0	2100	2100	0
7/9/2024 23:43	61701	ELIZ_T1	1	1	0	2.7	3.1	0.4	0	0	0	0	0	0	0	0
7/9/2024 23:43	40603	PIGR_T1	21	14	-7	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
7/9/2024 23:43	47402	PENS_T1	2	2	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/9/2024 23:43	64101	REFR_T1	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
7/9/2024 23:43	10702	CATA_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/9/2024 23:43	46206	DANV_T2	56	53	-3	0.61	0.54	-0.07	0	0	0	0	0	0	0	0
7/9/2024 23:43	20601	GRWO_T2	127	63	-64	0.76	0.34	-0.42	0.56	0.55	0	0	0	0	0	0
7/9/2024 23:43	11903	ETEX_T1	2	2	0	1.1	0	-1.1	1.07	1.04	0	0	0	0	0	0
7/9/2024 23:43	42701	AUGU_T1	23	19	-4	0.46	0.45	-0.01	0	0	2	2	0	1800	1800	0
7/9/2024 23:44	67703	WERN_T2	0	0	0	0	0	0	-0.03	-0.03	3	3	0	2700	2700	0
7/9/2024 22:44	60803	BUCK_T1	10	0	-10	0.18	0	-0.18	0	0	0	0	0	0	0	0
7/9/2024 22:44	52403	GRPA_T2	73	85	12	0.98	1.33	0.35	0	0	0	0	0	0	0	0
7/9/2024 22:44	20402	ASHF_T2	12	9	-3	1.78	1.8	0.02	0	0	0	0	0	0	0	0
7/9/2024 22:44	60801	BUCK_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
7/9/2024 22:44	61304	EARL_T1	0	0	0	0	0	0	-0.69	-0.77	1	1	0	600	600	0
7/9/2024 22:44	52402	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 22:44	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 22:44	56801	BENV_T1	6	6	0	1.08	1.38	0.3	-0.19	-0.26	2	2	0	1200	1200	0
7/9/2024 22:44	63401	HONY_T1	0	0	0	0	0	0	0	-0.29	1	1	0	600	600	0
7/9/2024 22:44	44902	SCOT_T2	0	11	11	0	0.1	0.1	-0.44	-0.44	0	0	0	0	0	0
7/9/2024 22:44	42201	SHEN_T2	0	0	0	0	0	0	0.43	0.37	1	1	0	600	600	0
7/9/2024 22:44	47101	MARL_T1	119	90	-29	1.25	1.23	-0.02	-2.74	-2.72	4	4	0	2400	2400	0
7/9/2024 22:44	61802	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 22:44	57101	SPHI_T2	6	6	0	0.67	0.1	-0.57	0	0	0	0	0	0	0	0
7/9/2024 22:44	67602	WARW_T2	0	0	0	0	0	0	0.21	0.12	2	2	0	1500	1500	0
7/9/2024 22:44	43301	WATS_T2	1	1	0	1	0	-1	-0.29	-0.36	3	3	0	2700	2700	0
7/9/2024 22:44	64202	KINZ_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/9/2024 22:44	52404	GRPA_T2	0	0	0	0	0	0	-0.94	-0.97	0	0	0	0	0	0
7/9/2024 22:44	64204	KINZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/9/2024 22:44	60201	ATGL_T2	72	36	-36	0.4	0.24	-0.16	-0.01	-0.02	1	1	0	300	300	0
7/9/2024 22:44	12701	MACU_T1	0	0	0	0	0	0	-2.37	-2.43	3	3	0	3600	3600	0
7/9/2024 22:44	47402	PENS_T1	2	2	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/9/2024 22:44	61801	EELI_T2	0	0	0	0	0	0	0.25	0.4	0	0	0	0	0	0
7/9/2024 22:44	47104	MARL_T1	21	19	-2	1.29	0.21	-1.08	0	0	0	0	0	0	0	0
7/9/2024 22:44	57401	SPAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/9/2024 22:44	15103	UPHA_T2	0	0	0	0	0	0	1.05	1.02	0	0	0	0	0	0
7/9/2024 22:44	55001	NEWP_T1	0	0	0	0	0	0	-0.66	-0.76	0	0	0	0	0	0
7/9/2024 22:44	61303	EARL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/9/2024 22:44	57403	SPAN_T1	1	0	-1	1.4	0	-1.4	0.55	0.51	0	0	0	0	0	0
7/9/2024 22:44	21203	ECAR_T1	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
7/9/2024 22:44	57103	SPHI_T2	0	0	0	0	0	0	-0.26	-0.18	1	1	0	600	600	0
7/9/2024 22:44	56803	BENV_T1	3	3	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/9/2024 22:44	46203	DANV_T2	5	0	-5	0.32	0.58	0.26	-1	-1	0	0	0	0	0	0
7/9/2024 22:44	44301	BEAV_T2	2	1	-1	1.8	0	-1.8	0.38	0.23	3	3	0	1800	1800	0
7/9/2024 22:44	46206	DANV_T2	56	53	-3	0.61	0.54	-0.07	0	0	0	0	0	0	0	0
7/9/2024 22:44	16302	ALPA_T2	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
7/9/2024 22:44	43304	WATS_T2	26	158	132	0.6	0.43	-0.17	-0.68	-0.62	0	0	0	0	0	0
7/9/2024 22:44	20403	ASHF_T2	0	1	1	0	0	0	-0.28	0.92	0	0	0	0	0	0
7/9/2024 22:44	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 22:44	51401	LYKE_T1	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
7/9/2024 22:44	57106	SPHI_T2	3	3	0	0.87	0.67	-0.2	0	0	0	0	0	0	0	0
7/9/2024 22:44	47401	PENS_T1	0	0	0	0	0	0	0.53	0.57	0	0	0	0	0	0
7/9/2024 22:44	64201	KINZ_T1	0	0	0	0	0	0	-0.7	-0.76	4	4	0	2100	2100	0
7/9/2024 22:44	61102	BERK_T5	0	0	0	0	0	0	0.35	0.25	1	1	0	300	300	0
7/9/2024 22:44	23401	HONE_T2	2	1	-1	1.1	0	-1.1	0	-0.1	0	0	0	0	0	0
7/9/2024 22:44	21201	ECAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 22:45	63804	HEMP_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
7/9/2024 22:45	56802	BENV_T2	3	0	-3	1	0	-1	-0.74	-0.79	0	0	0	0	0	0
7/9/2024 22:45	47401	PENS_T1	0	0	0	0	0	0	0.53	0.57	0	0	0	0	0	0
7/9/2024 22:45	20601	GRWO_T2	62	31	-31	0.48	0.34	-0.14	0.56	0.55	0	0	0	0	0	0
7/9/2024 22:45	65604	QVIL_T2	0	0	0	0	0	0	0.95	0.93	0	0	0	0	0	0
7/9/2024 22:45	64204	KINZ_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/9/2024 22:45	47402	PENS_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/9/2024 22:45	46001	BERW_T1	0	0	0	0	0	0	1.35	1.3	0	0	0	0	0	0
7/9/2024 22:45	13105	NHAM_T2	32	41	9	0.73	1.24	0.51	-0.75	-0.75	1	1	0	1200	1200	0
7/9/2024 22:45	13503	MCMI_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
7/9/2024 22:45	42201	SHEN_T2	0	0	0	0	0	0	0.43	0.37	1	1	0	600	600	0
7/9/2024 22:45	59101	WALK_T2	0	0	0	0	0	0	0.43	1.49	4	2	-2	2400	1200	-1200
7/9/2024 22:45	16302	ALPA_T2	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
7/9/2024 22:45	64202	KINZ_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/9/2024 22:45	64101	REFR_T1	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
7/9/2024 22:45	64201	KINZ_T1	0	0	0	0	0	0	-0.7	-0.76	4	4	0	2100	2100	0
7/9/2024 22:45	67204	TEHI_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
7/9/2024 22:45	63801	HEMP_T1	0	0	0	0	0	0	-0.39	-0.4	1	1	0	900	900	0
7/9/2024 22:45	46302	ROHR_T1	2	4	2	1.15	1.18	0.03	0.41	0.39	0	0	0	0	0	0
7/9/2024 22:45	56504	ROCK_T2	1	1	0	0.1	0	-0.1	0.45	0.37	0	0	0	0	0	0
7/9/2024 22:45	60201	ATGL_T2	36	4	-32	0.24	0.15	-0.09	-0.02	-0.05	2	2	0	600	600	0
7/9/2024 22:45	66504	SMAN_T2	0	0	0	0	0	0	-0.44	-0.52	0	0	0	0	0	0
7/9/2024 22:45	56501	ROCK_T2	3	1	-2	0.2	0.1	-0.1	-2.22	-2.27	0	0	0	0	0	0
7/9/2024 22:46	22901	HARW_T1	0	22	22	0	0.1	0.1	-0.16	-0.03	1	1	0	1200	1200	0
7/9/2024 22:46	64203	KINZ_T1	0	0	0	0	0	0	0.13	0.12	1	1	0	600	600	0
7/9/2024 22:46	52401	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/9/2024 22:46	63304	GREE_T1	0	0	0	0	0	0	-2.33	-2.39	0	0	0	0	0	0
7/9/2024 22:46	65802	RTWN_T2	0	0	0	0	0	0	0	-0.59	0	0	0	0	0	0
7/9/2024 22:46	67204	TEHI_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
7/9/2024 22:46	52403	GRPA_T2	83	79	-4	1.37	0.66	-0.71	-0.07	-0.09	0	0	0	0	0	0
7/9/2024 22:46	63401	HONY_T1	0	0	0	0	0	0	0	-0.29	1	1	0	600	600	0
7/9/2024 22:46	57106	SPHI_T2	3	3	0	0.67	0.83	0.16	0	0	0	0	0	0	0	0
7/9/2024 22:46	57101	SPHI_T2	6	6	0	0.1	0.27	0.17	0	0	0	0	0	0	0	0
7/9/2024 22:46	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/9/2024 22:46	51604	DUKE_T2	0	0	0	0	0	0	-1.93	-1.94	1	1	0	900	900	0
7/9/2024 22:46	43304	WATS_T2	157	18	-139	1.73	0.45	-1.28	-0.68	-0.62	0	0	0	0	0	0
7/9/2024 22:46	62105	ELAN_T1	4	4	0	2.35	1.05	-1.3	0	0	0	0	0	0	0	0
7/9/2024 22:46	22903	HARW_T1	8	6	-2	0.58	0	-0.58	0	0	0	0	0	0	0	0
7/9/2024 22:46	43301	WATS_T2	1	0	-1	2.5	0	-2.5	0	0	0	0	0	0	0	0
7/9/2024 22:46	48302	ORWI_T2	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
7/9/2024 22:46	55003	NEWP_T2	0	0	0	0	0	0	-1.08	-1.08	1	1	0	600	600	0
7/9/2024 22:46	56504	ROCK_T2	1	1	0	0.1	0	-0.1	0.9	0.75	0	0	0	0	0	0
7/9/2024 22:46	56501	ROCK_T2	3	1	-2	0.2	0.1	-0.1	-2.22	-2.27	0	0	0	0	0	0
7/9/2024 22:46	52004	LING_T2	0	0	0	0	0	0	0.58	0.49	0	0	0	0	0	0
7/9/2024 22:46	64204	KINZ_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/9/2024 22:46	60803	BUCK_T1	0	0	0	0	0	0	-0.23	-0.21	1	1	0	600	600	0
7/9/2024 22:46	55405	SHER_T1	5	5	0	0.26	0.12	-0.14	-0.21	-0.24	0	0	0	0	0	0
7/9/2024 22:46	62102	ELAN_T1	0	5	5	0	0	0	-0.33	-0.48	0	0	0	0	0	0
7/9/2024 22:46	66701	STRA_T1	0	5	5	0	0.1	0.1	0.79	0.74	1	1	0	600	600	0
7/9/2024 22:46	46101	MACI_T2	0	1	1	0	0	0	0.85	0.88	0	0	0	0	0	0
7/9/2024 22:46	57103	SPHI_T2	0	0	0	0	0	0	-0.26	-0.18	1	1	0	600	600	0
7/9/2024 22:46	58701	ROSE_T2	0	0	0	0	0	0	-1.57	-1.58	1	1	0	600	600	0
7/9/2024 22:46	22905	HARW_T1	24	52	28	0.77	0.9	0.13	0	0	0	0	0	0	0	0
7/9/2024 22:46	53803	MBRG_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/9/2024 22:46	60801	BUCK_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
7/9/2024 22:46	14403	SSLA_T1	1	0	-1	0.1	0	-0.1	0.8	0.76	1	1	0	600	600	0
7/9/2024 22:46	52402	GRPA_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
7/9/2024 22:46	14404	SSLA_T1	2	2	0	1	1.35	0.35	0	0	0	0	0	0	0	0
7/9/2024 22:46	46203	DANV_T2	5	5	0	0.26	0.58	0.32	-1	-1	0	0	0	0	0	0
7/9/2024 22:46	64202	KINZ_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/9/2024 22:46	40101	HUNT_T2	10	7	-3	0.31	0	-0.31	-1.33	-1.37	0	0	0	0	0	0
7/9/2024 22:46	58705	ROSE_T2	4	4	0	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
7/9/2024 22:46	60201	ATGL_T2	36	4	-32	0.24	0.15	-0.09	-0.01	-0.02	1	1	0	300	300	0
7/9/2024 22:46	67605	WARW_T1	3	3	0	0.67	0.5	-0.17	-1.01	-1.09	0	0	0	0	0	0
7/9/2024 22:46	65503	MOJO_T2	0	0	0	0	0	0	-0.28	-0.35	1	1	0	900	900	0
7/9/2024 22:46	46206	DANV_T2	53	54	1	0.58	0.55	-0.03	0	0	0	0	0	0	0	0
7/9/2024 22:46	44801	EDAN_T2	1	1	0	1.1	1.2	0.1	0.94	0.95	0	0	0	0	0	0
7/9/2024 22:46	58706	ROSE_T2	1	1	0	1.2	1.8	0.6	0	0	0	0	0	0	0	0
7/9/2024 22:47	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	-0.28	0.92	0	0	0	0	0	0
7/9/2024 22:47	56504	ROCK_T2	1	1	0	0.1	0	-0.1	0.45	0.37	0	0	0	0	0	0
7/9/2024 22:47	54701	NEBL_T1	1	1	0	1.2	1.2	0	0	0	1	1	0	600	600	0
7/9/2024 22:47	44801	EDAN_T2	1	1	0	1.1	1.2	0.1	0.94	0.95	0	0	0	0	0	0
7/9/2024 22:47	64101	REFR_T1	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
7/9/2024 22:47	47001	HUGH_T2	3	4	1	7.57	6.15	-1.42	-1.34	-1.41	1	1	0	900	900	0
7/9/2024 22:47	14801	TREI_T2	186	174	-12	1.35	0.84	-0.51	0	0	0	0	0	0	0	0
7/9/2024 22:47	67605	WARW_T1	3	3	0	0.67	0.5	-0.17	-1.01	-1.09	0	0	0	0	0	0
7/9/2024 22:47	52403	GRPA_T2	83	79	-4	1.37	0.66	-0.71	0	0	0	0	0	0	0	0
7/9/2024 22:47	52401	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/9/2024 22:47	67602	WARW_T2	0	0	0	0	0	0	0.21	0.12	2	2	0	1500	1500	0
7/9/2024 22:47	49804	UNIV_T1	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/9/2024 22:47	49803	UNIV_T1	0	0	0	0	0	0	-1.74	-1.78	0	0	0	0	0	0
7/9/2024 22:47	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 22:47	42901	MIDD_T2	4	4	0	0.73	0.45	-0.28	0	0	0	0	0	0	0	0
7/9/2024 22:47	56801	BENV_T1	6	8	2	1.18	0.95	-0.23	-0.28	-0.39	3	3	0	1800	1800	0
7/9/2024 22:47	20402	ASHF_T2	9	8	-1	1.68	1.18	-0.5	0	0	0	0	0	0	0	0
7/9/2024 22:47	42902	MIDD_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/9/2024 22:47	48303	ORWI_T2	0	0	0	0	0	0	0.81	0.79	0	0	0	0	0	0
7/9/2024 22:47	56501	ROCK_T2	3	1	-2	0.2	0.1	-0.1	-4.44	-4.55	0	0	0	0	0	0
7/9/2024 22:47	60201	ATGL_T2	36	4	-32	0.24	0.15	-0.09	-0.01	-0.02	1	1	0	300	300	0
7/9/2024 22:47	42903	MIDD_T2	0	0	0	0	0	0	-1	-0.99	1	1	0	1200	1200	0
7/9/2024 22:47	52402	GRPA_T2	3	0	-3	0.17	0	-0.17	-0.49	-0.5	0	0	0	0	0	0
7/9/2024 22:47	52404	GRPA_T2	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
7/9/2024 22:47	56803	BENV_T1	3	4	1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
7/9/2024 22:47	24902	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/9/2024 22:47	42701	AUGU_T1	18	11	-7	0.58	0.28	-0.3	0	0	2	2	0	1800	1800	0
7/9/2024 22:47	67203	TEHI_T1	1	2	1	0.1	0.1	0	2.81	2.77	2	2	0	1500	1500	0
7/9/2024 22:47	24901	WHHA_T1	0	0	0	0	0	0	-0.23	-0.28	0	0	0	0	0	0
7/9/2024 22:47	52004	LING_T2	0	0	0	0	0	0	0.29	0.25	0	0	0	0	0	0
7/9/2024 22:48	63401	HONY_T1	0	0	0	0	0	0	0	-0.29	1	1	0	600	600	0
7/9/2024 22:48	67901	WNHO_T2	0	0	0	0	0	0	-0.23	-0.39	1	1	0	900	900	0
7/9/2024 22:48	45303	WBER_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/9/2024 22:48	41602	CLEV_T1	1	0	-1	0.4	0	-0.4	0	0	1	1	0	600	600	0
7/9/2024 22:48	67201	TEHI_T1	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
7/9/2024 22:48	43202	MVIL_T2	2	0	-2	0.45	0	-0.45	-0.5	-0.51	0	0	0	0	0	0
7/9/2024 22:48	67203	TEHI_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
7/9/2024 22:48	58203	NEWV_T2	7	3	-4	1.09	4.4	3.31	-0.9	-0.91	0	0	0	0	0	0
7/9/2024 22:48	56504	ROCK_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/9/2024 22:48	65902	SAKR_T2	0	0	0	0	0	0	-1.33	-1.29	2	2	0	1200	1200	0
7/9/2024 22:48	45302	WBER_T2	0	0	0	0	0	0	1.45	1.43	0	0	0	0	0	0
7/9/2024 22:48	56501	ROCK_T2	3	1	-2	0.2	0.1	-0.1	-8.89	-9.1	0	0	0	0	0	0
7/9/2024 22:48	47104	MARL_T1	19	9	-10	0.57	0	-0.57	0	0	0	0	0	0	0	0
7/9/2024 22:48	64101	REFR_T1	0	0	0	0	0	0	0.05	-0.03	0	0	0	0	0	0
7/9/2024 22:48	65901	SAKR_T2	1	1	0	7.5	7.2	-0.3	0	0	0	0	0	0	0	0
7/9/2024 22:48	50701	SMEC_T1	0	0	0	0	0	0	-1.06	-1.04	1	1	0	1200	1200	0
7/9/2024 22:48	41901	REED_T1	7	8	1	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
7/9/2024 22:48	23401	HONE_T2	1	0	-1	2.5	0	-2.5	0	-0.05	0	0	0	0	0	0
7/9/2024 22:48	41902	REED_T1	19	17	-2	0.72	0	-0.72	0.47	0.44	1	1	0	900	900	0
7/9/2024 22:48	46302	ROHR_T1	2	4	2	1.15	1.18	0.03	0.41	0.39	0	0	0	0	0	0
7/9/2024 22:48	47101	MARL_T1	83	75	-8	1.37	1.29	-0.08	-0.68	-0.68	1	1	0	600	600	0
7/9/2024 22:49	43304	WATS_T2	157	18	-139	1.73	0.45	-1.28	0	0	0	0	0	0	0	0
7/9/2024 22:49	57404	SPAN_T2	0	0	0	0	0	0	-2.63	-2.7	2	2	0	2400	2400	0
7/9/2024 22:49	56801	BENV_T1	6	8	2	1.18	0.95	-0.23	-0.28	-0.39	3	3	0	1800	1800	0
7/9/2024 22:49	43301	WATS_T2	1	0	-1	2.5	0	-2.5	-0.1	-0.12	1	1	0	900	900	0
7/9/2024 22:49	47101	MARL_T1	83	75	-8	1.37	1.29	-0.08	-0.68	-0.68	1	1	0	600	600	0
7/9/2024 22:49	46801	HEPB_T2	2	3	1	0.85	0.73	-0.12	0.25	0.18	0	0	0	0	0	0
7/9/2024 22:49	56802	BENV_T2	3	0	-3	1	0	-1	-0.74	-0.79	0	0	0	0	0	0
7/9/2024 22:49	58003	WCAR_T1	1	1	0	0.4	0.5	0.1	1.16	1.18	2	2	0	1200	1200	0
7/9/2024 22:49	46206	DANV_T2	53	54	1	0.58	0.55	-0.03	0	0	0	0	0	0	0	0
7/9/2024 22:49	41901	REED_T1	7	8	1	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
7/9/2024 22:49	66703	STRA_T1	0	0	0	0	0	0	0.46	0.42	0	0	0	0	0	0
7/9/2024 22:49	41902	REED_T1	19	17	-2	0.72	0	-0.72	0.94	0.87	2	2	0	1800	1800	0
7/9/2024 22:49	57401	SPAN_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/9/2024 22:49	45802	HEGI_T2	10	18	8	0.35	0.18	-0.17	0.26	0.32	1	1	0	900	900	0
7/9/2024 22:49	27605	PIRI_T2	157	152	-5	1.03	0.81	-0.22	1.3	1.39	0	0	0	0	0	0
7/9/2024 22:49	40902	JESH_T1	1	0	-1	0.4	0	-0.4	-0.65	-0.67	1	1	0	600	600	0
7/9/2024 22:49	52002	LING_T2	0	0	0	0	0	0	0	0.12	2	2	0	1800	1800	0
7/9/2024 22:49	40603	PIGR_T1	11	9	-2	0.37	0	-0.37	0	0	0	0	0	0	0	0
7/9/2024 22:49	66701	STRA_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 22:49	60201	ATGL_T2	36	4	-32	0.24	0.15	-0.09	-0.01	-0.02	1	1	0	300	300	0
7/9/2024 22:49	40601	PIGR_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
7/9/2024 22:49	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/9/2024 22:49	46203	DANV_T2	5	5	0	0.26	0.58	0.32	-3	-2.99	0	0	0	0	0	0
7/9/2024 22:49	45801	HEGI_T1	0	0	0	0	0	0	-0.13	-0.12	1	1	0	900	900	0
7/9/2024 22:49	56803	BENV_T1	3	4	1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
7/9/2024 22:49	47104	MARL_T1	19	9	-10	0.57	0	-0.57	0	0	0	0	0	0	0	0
7/9/2024 22:49	57403	SPAN_T1	0	0	0	0	0	0	0.55	0.51	0	0	0	0	0	0
7/9/2024 22:49	43402	BENT_T1	0	0	0	0	0	0	-0.75	-0.74	1	1	0	900	900	0
7/9/2024 22:49	55001	NEWP_T1	0	0	0	0	0	0	-0.33	-0.38	0	0	0	0	0	0
7/9/2024 22:49	40101	HUNT_T2	10	7	-3	0.31	0	-0.31	-1.33	-1.37	0	0	0	0	0	0
7/9/2024 22:49	40901	JESH_T1	1	0	-1	1.4	0.9	-0.5	0	0	0	0	0	0	0	0
7/9/2024 22:49	43202	MVIL_T2	2	0	-2	0.45	0	-0.45	-0.5	-0.51	0	0	0	0	0	0
7/9/2024 22:50	57106	SPHI_T2	3	3	0	0.67	0.83	0.16	0	0	0	0	0	0	0	0
7/9/2024 22:50	57101	SPHI_T2	6	6	0	0.1	0.27	0.17	0	0	0	0	0	0	0	0
7/9/2024 22:50	56501	ROCK_T2	3	1	-2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/9/2024 22:50	42201	SHEN_T2	0	0	0	0	0	0	0.43	0.37	1	1	0	600	600	0
7/9/2024 22:50	43402	BENT_T1	0	0	0	0	0	0	-0.75	-0.74	1	1	0	900	900	0
7/9/2024 22:50	56504	ROCK_T2	1	1	0	0.1	0	-0.1	0.45	0.37	0	0	0	0	0	0
7/9/2024 22:50	57104	SPHI_T2	0	0	0	0	0	0	-1.16	-2.15	0	1	1	0	900	900
7/9/2024 22:50	40101	HUNT_T2	10	7	-3	0.31	0	-0.31	-1.33	-1.37	0	0	0	0	0	0
7/9/2024 22:50	67605	WARW_T1	3	3	0	0.67	0.5	-0.17	-1.01	-1.09	0	0	0	0	0	0
7/9/2024 22:50	56803	BENV_T1	3	4	1	0.5	0.53	0.03	-0.46	-0.52	1	1	0	600	600	0
7/9/2024 22:50	64101	REFR_T1	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
7/9/2024 22:50	56801	BENV_T1	6	8	2	1.18	0.95	-0.23	-0.09	-0.13	1	1	0	600	600	0
7/9/2024 22:50	57404	SPAN_T2	0	0	0	0	0	0	-1.31	-1.35	1	1	0	1200	1200	0
7/9/2024 22:51	53802	MBRG_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
7/9/2024 22:51	56801	BENV_T1	6	8	2	1.18	0.95	-0.23	-0.09	-0.13	1	1	0	600	600	0
7/9/2024 22:51	45802	HEGI_T2	10	18	8	0.35	0.18	-0.17	0.26	0.32	1	1	0	900	900	0
7/9/2024 22:51	56501	ROCK_T2	3	1	-2	0.2	0.1	-0.1	-8.89	-9.1	0	0	0	0	0	0
7/9/2024 22:51	51604	DUKE_T2	0	0	0	0	0	0	-1.93	-1.94	1	1	0	900	900	0
7/9/2024 22:51	56803	BENV_T1	3	4	1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
7/9/2024 22:51	52002	LING_T2	0	0	0	0	0	0	0	0.06	1	1	0	900	900	0
7/9/2024 22:51	55408	SHER_T2	1	1	0	2.1	2	-0.1	-0.52	-0.55	1	1	0	1200	1200	0
7/9/2024 22:51	52501	PROG_T1	0	0	0	0	0	0	-0.59	-0.62	1	1	0	300	300	0
7/9/2024 22:51	53803	MBRG_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
7/9/2024 22:51	56504	ROCK_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/9/2024 22:52	51702	OBER_T1	2	2	0	1.25	1.1	-0.15	-2.63	-2.67	2	2	0	1200	1200	0
7/9/2024 22:52	52501	PROG_T1	0	0	0	0	0	0	-0.62	-0.62	1	1	0	300	300	0
7/9/2024 22:52	52004	LING_T2	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
7/9/2024 22:52	56504	ROCK_T2	1	1	0	0.1	0	-0.1	0.37	0.34	0	0	0	0	0	0
7/9/2024 22:52	55101	WERT_T1	0	0	0	0	0	0	-2.15	-2.32	4	4	0	3300	3300	0
7/9/2024 22:52	56501	ROCK_T2	3	1	-2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/9/2024 22:53	57403	SPAN_T1	0	0	0	0	0	0	0.51	0.48	0	0	0	0	0	0
7/9/2024 22:53	58706	ROSE_T2	1	1	0	1.2	1.8	0.6	1.12	1.13	1	1	0	600	600	0
7/9/2024 22:53	44301	BEAV_T2	1	0	-1	0.6	0	-0.6	0.15	0.32	2	2	0	1200	1200	0
7/9/2024 22:53	58705	ROSE_T2	4	4	0	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
7/9/2024 22:53	57401	SPAN_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/9/2024 22:53	55101	WERT_T1	0	0	0	0	0	0	-2.15	-2.32	4	4	0	3300	3300	0
7/9/2024 22:53	57304	MOAL_T2	0	0	0	0	0	0	-0.37	-0.45	0	0	0	0	0	0
7/9/2024 22:53	57302	MOAL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/9/2024 22:53	56803	BENV_T1	3	4	1	0.5	0.53	0.03	-0.52	-0.49	1	1	0	600	600	0
7/9/2024 22:53	56801	BENV_T1	6	8	2	1.18	0.95	-0.23	-0.13	-0.13	1	1	0	600	600	0
7/9/2024 22:53	57303	MOAL_T2	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
7/9/2024 22:53	52501	PROG_T1	0	0	0	0	0	0	-0.62	-0.62	1	1	0	300	300	0
7/9/2024 22:53	54701	NEBL_T1	1	1	0	1.2	1.2	0	0	0	1	1	0	600	600	0
7/9/2024 22:53	57306	MOAL_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/9/2024 22:54	57103	SPHI_T2	0	0	0	0	0	0	-0.18	-0.23	1	1	0	600	600	0
7/9/2024 22:54	45801	HEGI_T1	0	0	0	0	0	0	-0.12	-0.21	1	1	0	900	900	0
7/9/2024 22:54	57101	SPHI_T2	6	6	0	0.1	0.27	0.17	0	0	0	0	0	0	0	0
7/9/2024 22:54	56803	BENV_T1	3	4	1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
7/9/2024 22:54	55101	WERT_T1	0	0	0	0	0	0	-6.45	-6.96	12	12	0	9900	9900	0
7/9/2024 22:54	57106	SPHI_T2	3	3	0	0.67	0.83	0.16	0	0	0	0	0	0	0	0
7/9/2024 22:54	43301	WATS_T2	1	0	-1	2.5	0	-2.5	-0.12	-0.18	1	1	0	900	900	0
7/9/2024 22:54	53501	EVIL_T2	1	1	0	0.7	0.2	-0.5	-0.85	-0.86	2	2	0	1200	1200	0
7/9/2024 22:54	52403	GRPA_T2	83	79	-4	1.37	0.66	-0.71	-0.09	-0.14	0	0	0	0	0	0
7/9/2024 22:54	56801	BENV_T1	6	8	2	1.18	0.95	-0.23	-0.39	-0.39	3	3	0	1800	1800	0
7/9/2024 22:54	43304	WATS_T2	157	18	-139	1.73	0.45	-1.28	0	0	0	0	0	0	0	0
7/9/2024 22:54	59101	WALK_T2	0	0	0	0	0	0	0.75	1	1	1	0	600	600	0
7/9/2024 22:54	52401	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/9/2024 22:54	52002	LING_T2	0	0	0	0	0	0	0.12	-0.01	2	2	0	1800	1800	0
7/9/2024 22:54	52402	GRPA_T2	3	0	-3	0.17	0	-0.17	-0.5	-0.5	0	0	0	0	0	0
7/9/2024 22:55	56803	BENV_T1	3	4	1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
7/9/2024 22:55	44301	BEAV_T2	1	0	-1	0.6	0	-0.6	0.08	0.16	1	1	0	600	600	0
7/9/2024 22:55	55101	WERT_T1	0	0	0	0	0	0	-2.15	-2.32	4	4	0	3300	3300	0
7/9/2024 22:55	54701	NEBL_T1	1	1	0	1.2	1.2	0	0	0	1	1	0	600	600	0
7/9/2024 22:55	52002	LING_T2	0	0	0	0	0	0	0.06	-0.01	1	1	0	900	900	0
7/9/2024 22:55	56801	BENV_T1	6	8	2	1.18	0.95	-0.23	-0.26	-0.26	2	2	0	1200	1200	0
7/9/2024 22:56	57701	PAXT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/9/2024 22:56	55101	WERT_T1	0	0	0	0	0	0	-4.3	-4.64	8	8	0	6600	6600	0
7/9/2024 22:56	57702	PAXT_T1	0	0	0	0	0	0	-0.44	-0.48	0	0	0	0	0	0
7/9/2024 22:56	52403	GRPA_T2	83	79	-4	1.37	0.66	-0.71	-0.09	-0.14	0	0	0	0	0	0
7/9/2024 22:56	52401	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/9/2024 22:56	52402	GRPA_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
7/9/2024 22:57	56504	ROCK_T2	1	1	0	0.1	0	-0.1	0	0	1	0	0	0	0	0
7/9/2024 22:57	56801	BENV_T1	6	8	2	1.18	0.95	-0.23	-0.13	-0.13	1	1	0	600	600	0
7/9/2024 22:57	56501	ROCK_T2	3	1	-2	0.2	0.1	-0.1	-4.55	-4.66	0	0	0	0	0	0
7/9/2024 22:57	45602	WOOL_T1	2	9	7	0.8	0.13	-0.67	0.56	0.54	0	0	0	0	0	0
7/9/2024 22:57	56803	BENV_T1	3	4	1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
7/9/2024 23:12	58402	MORO_T1	0	0	0	0	0	0	-0.63	-0.65	4	4	0	2850	2850	0
7/9/2024 23:13	43304	WATS_T2	11	15	4	0.42	0.28	-0.14	-0.61	-0.62	0	0	0	0	0	0
7/9/2024 23:32	13904	SEID_T1	25	24	-1	0.45	0.63	0.18	-0.41	-0.42	0	0	0	0	0	0
7/9/2024 23:45	61801	EELI_T2	0	0	0	0	0	0	0.34	0.3	0	0	0	0	0	0
7/9/2024 23:45	61802	EELI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/10/2024 0:03	64904	MILL_T1	0	0	0	0	0	0	-0.82	-0.86	0	0	0	0	0	0
7/10/2024 0:10	67605	WARW_T1	1	3	2	0.8	0.55	-0.25	-0.93	-0.89	0	0	0	0	0	0
7/10/2024 0:10	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
7/10/2024 0:10	64202	KINZ_T1	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/10/2024 0:10	64203	KINZ_T1	0	0	0	0	0	0	-0.04	0.01	1	1	0	600	600	0
7/10/2024 0:11	64202	KINZ_T1	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/10/2024 0:11	67605	WARW_T1	1	3	2	0.8	0.55	-0.25	-0.93	-0.89	0	0	0	0	0	0
7/10/2024 0:11	64203	KINZ_T1	0	0	0	0	0	0	-0.04	0.01	1	1	0	600	600	0
7/10/2024 0:11	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
7/10/2024 0:31	67605	WARW_T1	3	3	0	0.55	0.4	-0.15	-0.89	-0.94	0	0	0	0	0	0
7/10/2024 0:31	64204	KINZ_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
7/10/2024 0:31	64202	KINZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/10/2024 0:31	64203	KINZ_T1	0	0	0	0	0	0	0.01	0	1	1	0	600	600	0
7/10/2024 0:32	67605	WARW_T1	3	3	0	0.55	0.4	-0.15	-0.89	-0.94	0	0	0	0	0	0
7/10/2024 0:32	64204	KINZ_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
7/10/2024 0:32	64202	KINZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/10/2024 0:32	64203	KINZ_T1	0	0	0	0	0	0	0.01	0	1	1	0	600	600	0
7/10/2024 1:11	24902	WHHA_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
7/10/2024 1:57	67605	WARW_T1	1	1	0	0.7	0.7	0	-1.04	-1.03	0	0	0	0	0	0
7/10/2024 1:57	64203	KINZ_T1	0	0	0	0	0	0	-0.07	-0.05	1	1	0	600	600	0
7/10/2024 1:57	64202	KINZ_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
7/10/2024 1:57	64204	KINZ_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
7/10/2024 1:58	64203	KINZ_T1	0	0	0	0	0	0	-0.07	-0.05	1	1	0	600	600	0
7/10/2024 1:58	64204	KINZ_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
7/10/2024 1:58	67605	WARW_T1	1	1	0	0.7	0.7	0	-1.04	-1.03	0	0	0	0	0	0
7/10/2024 1:58	64202	KINZ_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
7/10/2024 3:02	64201	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/10/2024 3:02	67605	WARW_T1	6	2	-4	0.22	0.45	0.23	-1.06	-1.05	0	0	0	0	0	0
7/10/2024 3:02	64203	KINZ_T1	0	0	0	0	0	0	-0.11	-0.12	1	1	0	600	600	0
7/10/2024 3:02	64204	KINZ_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
7/10/2024 3:02	64202	KINZ_T1	3	2	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
7/10/2024 3:03	64201	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/10/2024 3:03	64204	KINZ_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
7/10/2024 3:03	67605	WARW_T1	6	2	-4	0.22	0.45	0.23	-1.06	-1.05	0	0	0	0	0	0
7/10/2024 3:03	64202	KINZ_T1	3	2	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
7/10/2024 3:03	64203	KINZ_T1	0	0	0	0	0	0	-0.11	-0.12	1	1	0	600	600	0
7/10/2024 3:08	65901	SAKR_T2	1	1	0	7.7	8.2	0.5	-1.15	-1.14	2	2	0	1500	1500	0
7/10/2024 3:24	64202	KINZ_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/10/2024 3:24	64204	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/10/2024 3:24	67605	WARW_T1	1	3	2	0.5	0.5	0	-1.08	-0.97	0	0	0	0	0	0
7/10/2024 3:24	64201	KINZ_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
7/10/2024 3:24	64203	KINZ_T1	0	0	0	0	0	0	-0.03	0	1	1	0	600	600	0
7/10/2024 3:25	64202	KINZ_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/10/2024 3:25	64204	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/10/2024 3:25	64203	KINZ_T1	0	0	0	0	0	0	-0.03	0	1	1	0	600	600	0
7/10/2024 3:25	67605	WARW_T1	1	3	2	0.5	0.5	0	-1.08	-0.97	0	0	0	0	0	0
7/10/2024 3:25	64201	KINZ_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
7/10/2024 3:44	61701	ELIZ_T1	1	1	0	4.6	4.8	0.2	1	0.98	0	0	0	0	0	0
7/10/2024 4:29	64201	KINZ_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
7/10/2024 4:29	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/10/2024 4:29	64203	KINZ_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/10/2024 4:29	67605	WARW_T1	3	3	0	0.43	0.47	0.04	-0.99	-0.92	0	0	0	0	0	0
7/10/2024 4:29	64204	KINZ_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/10/2024 4:30	67605	WARW_T1	3	3	0	0.47	0.43	-0.04	-0.99	-0.92	0	0	0	0	0	0
7/10/2024 4:30	64203	KINZ_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/10/2024 4:30	64204	KINZ_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/10/2024 4:30	64201	KINZ_T1	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
7/10/2024 4:58	54503	ENOL_T2	0	0	0	0	0	0	-1.87	-1.84	1	1	0	600	600	0
7/10/2024 5:33	64203	KINZ_T1	0	0	0	0	0	0	-0.52	-0.5	2	2	0	900	900	0
7/10/2024 5:33	64204	KINZ_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/10/2024 5:34	64203	KINZ_T1	0	0	0	0	0	0	-0.52	-0.5	2	2	0	900	900	0
7/10/2024 5:34	64204	KINZ_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/10/2024 6:40	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 6:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 6:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 6:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 6:55	62102	ELAN_T1	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
7/10/2024 6:57	62102	ELAN_T1	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
7/10/2024 6:58	62102	ELAN_T1	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
7/10/2024 7:08	44902	SCOT_T2	1	0	-1	0.2	0	-0.2	-0.59	-0.54	0	0	0	0	0	0
7/10/2024 7:14	52403	GRPA_T2	18	51	33	0.69	0.59	-0.1	0	0	0	0	0	0	0	0
7/10/2024 7:14	52404	GRPA_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
7/10/2024 7:14	52401	GRPA_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/10/2024 7:29	52403	GRPA_T2	16	56	40	0.61	0.63	0.02	0	0	0	0	0	0	0	0
7/10/2024 7:29	52404	GRPA_T2	0	0	0	0	0	0	0.28	0.53	0	0	0	0	0	0
7/10/2024 7:29	52402	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 7:32	14601	SWHI_T1	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
7/10/2024 7:34	14601	SWHI_T1	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
7/10/2024 7:35	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 7:35	13905	SEID_T1	0	0	0	0	0	0	-0.72	-0.67	1	1	0	1200	1200	0
7/10/2024 7:36	22701	MINO_T1	0	0	0	0	0	0	-0.52	-0.47	1	1	0	600	600	0
7/10/2024 7:37	57401	SPAN_T1	3	0	-3	0.27	0	-0.27	-0.38	-0.48	1	1	0	600	600	0
7/10/2024 7:46	45802	HEGI_T2	232	167	-65	1.69	0.64	-1.05	1.16	0.68	2	2	0	1200	1200	0
7/10/2024 7:53	43304	WATS_T2	3	12	9	0.73	0.14	-0.59	-0.48	-0.47	1	1	0	600	600	0
7/10/2024 8:00	45802	HEGI_T2	167	174	7	1.09	0.64	-0.45	0.68	0.62	2	2	0	1200	1200	0
7/10/2024 8:01	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 8:01	21202	ECAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 8:01	21206	ECAR_T2	1	1	0	7.8	7.4	-0.4	0.7	0.64	0	0	0	0	0	0
7/10/2024 8:03	55405	SHER_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
7/10/2024 8:04	47401	PENS_T1	3	8	5	1.1	1.18	0.08	0.49	0.56	0	0	0	0	0	0
7/10/2024 8:04	47403	PENS_T1	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
7/10/2024 8:04	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 8:05	47403	PENS_T1	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
7/10/2024 8:05	47401	PENS_T1	3	8	5	1.1	1.18	0.08	0.49	0.56	0	0	0	0	0	0
7/10/2024 8:05	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 8:08	58001	WCAR_T1	4	5	1	0.35	0.94	0.59	0	0	0	0	0	0	0	0
7/10/2024 8:08	58003	WCAR_T1	1	7	6	0.8	0.47	-0.33	0.66	0.65	1	1	0	600	600	0
7/10/2024 8:09	24901	WHHA_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
7/10/2024 8:14	46803	HEPB_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/10/2024 8:14	46801	HEPB_T2	4	3	-1	0.93	1.1	0.17	0.09	0.14	0	0	0	0	0	0
7/10/2024 8:18	51003	NHAR_T1	0	0	0	0	0	0	-1.69	-1.62	1	1	0	1200	1200	0
7/10/2024 8:18	51004	NHAR_T1	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
7/10/2024 8:18	51002	NHAR_T1	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
7/10/2024 8:20	56501	ROCK_T2	1	2	1	0.2	0	-0.2	-1.33	-1.29	0	0	0	0	0	0
7/10/2024 8:23	56501	ROCK_T2	1	2	1	0.2	0	-0.2	-1.29	-1.24	0	0	0	0	0	0
7/10/2024 8:29	23401	HONE_T2	2	5	3	0.55	0.47	-0.08	0.06	0	0	0	0	0	0	0
7/10/2024 8:29	23402	HONE_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 8:30	21203	ECAR_T1	0	0	0	0	0	0	0.02	0.05	0	0	0	0	0	0
7/10/2024 8:37	44202	POIN_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/10/2024 8:37	44203	POIN_T2	11	17	6	1.64	2.63	0.99	0.57	-0.59	2	3	1	2100	3300	1200
7/10/2024 9:04	64101	REFR_T1	3	3	0	0.33	0.23	-0.1	0.52	-0.01	0	0	0	0	0	0
7/10/2024 9:05	64101	REFR_T1	3	3	0	0.33	0.23	-0.1	0.52	-0.01	0	0	0	0	0	0
7/10/2024 9:48	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 9:52	46204	DANV_T2	31	75	44	0.65	0.71	0.06	0	0	0	0	0	0	0	0
7/10/2024 9:52	47001	HUGH_T2	3	5	2	7.97	7.5	-0.47	-1.09	-1.11	1	1	0	900	900	0
7/10/2024 9:52	46203	DANV_T2	2	5	3	1.2	0.38	-0.82	0	0	0	0	0	0	0	0
7/10/2024 9:52	46206	DANV_T2	115	126	11	1.23	1.25	0.02	2.36	2.24	2	2	0	2100	2100	0
7/10/2024 9:53	65602	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 9:53	61102	BERK_T5	0	0	0	0	0	0	0.58	0.46	1	1	0	300	300	0
7/10/2024 9:53	65603	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 9:53	56504	ROCK_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 9:53	67605	WARW_T1	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
7/10/2024 9:53	40101	HUNT_T2	170	48	-122	0.61	0.62	0.01	-1.59	-1.51	0	0	0	0	0	0
7/10/2024 9:53	56501	ROCK_T2	1	27	26	0.9	0.39	-0.51	-2.27	-2.24	0	0	0	0	0	0
7/10/2024 9:53	44301	BEAV_T2	20	21	1	0.68	0.6	-0.08	0.73	0.55	2	2	0	1500	1500	0
7/10/2024 9:53	65604	QVIL_T2	0	1	1	0	0.1	0.1	1.14	1.09	0	0	0	0	0	0
7/10/2024 9:54	40502	CRES_T2	1	3	2	0.1	0.3	0.2	-0.17	-0.1	0	0	0	0	0	0
7/10/2024 9:54	61102	BERK_T5	0	0	0	0	0	0	1.17	0.92	2	2	0	600	600	0
7/10/2024 9:54	67203	TEHI_T1	12	43	31	0.78	0.68	-0.1	0	0	0	0	0	0	0	0
7/10/2024 9:54	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 9:54	52002	LING_T2	2	0	-2	0.1	0	-0.1	0.79	-0.04	0	0	0	0	0	0
7/10/2024 9:54	41903	REED_T1	4	6	2	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/10/2024 9:54	52402	GRPA_T2	4	9	5	0.78	0.65	-0.13	0	0	0	0	0	0	0	0
7/10/2024 9:54	67201	TEHI_T1	15	21	6	0.84	0.72	-0.12	0.97	0.94	1	1	0	600	600	0
7/10/2024 9:54	52404	GRPA_T2	1	3	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 9:54	55101	WERT_T1	18	47	29	0.61	0.58	-0.03	-1.47	-1.34	4	4	0	3300	3300	0
7/10/2024 9:54	52403	GRPA_T2	78	76	-2	0.8	0.77	-0.03	0.01	-0.25	0	0	0	0	0	0
7/10/2024 9:54	52401	GRPA_T2	0	27	27	0	0.17	0.17	0	0	0	0	0	0	0	0
7/10/2024 9:54	41902	REED_T1	38	10	-28	0.57	0.3	-0.27	-0.18	-0.1	1	1	0	900	900	0
7/10/2024 9:55	52002	LING_T2	2	0	-2	0.1	0	-0.1	0.79	-0.04	0	0	0	0	0	0
7/10/2024 9:55	20401	ASHF_T2	4	5	1	1.28	0.93	-0.35	0	0	0	0	0	0	0	0
7/10/2024 9:55	22701	MINO_T1	0	0	0	0	0	0	-0.31	-0.21	1	1	0	600	600	0
7/10/2024 9:55	46204	DANV_T2	31	75	44	0.65	0.71	0.06	0	0	0	0	0	0	0	0
7/10/2024 9:55	60501	NMAN_T2	3	3	0	3.8	3.13	-0.67	0	0	0	0	0	0	0	0
7/10/2024 9:55	20403	ASHF_T2	25	3	-22	0.61	0.1	-0.51	1.21	1.13	0	0	0	0	0	0
7/10/2024 9:55	60502	NMAN_T2	0	0	0	0	0	0	0.94	0.46	0	0	0	0	0	0
7/10/2024 9:55	46203	DANV_T2	2	5	3	1.2	0.38	-0.82	-4.2	-4.08	0	0	0	0	0	0
7/10/2024 9:55	20402	ASHF_T2	13	7	-6	1.59	1.49	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/10/2024 9:55	56504	ROCK_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 9:55	56501	ROCK_T2	1	27	26	0.9	0.39	-0.51	-2.27	-2.24	0	0	0	0	0	0
7/10/2024 9:55	55101	WERT_T1	18	47	29	0.61	0.58	-0.03	-1.47	-1.34	4	4	0	3300	3300	0
7/10/2024 9:55	29402	BELT_T1	1	1	0	9.1	9	-0.1	0	0	0	0	0	0	0	0
7/10/2024 9:55	44301	BEAV_T2	20	21	1	0.68	0.6	-0.08	0.73	0.55	2	2	0	1500	1500	0
7/10/2024 9:55	46206	DANV_T2	115	126	11	1.23	1.25	0.02	2.36	2.24	2	2	0	2100	2100	0
7/10/2024 9:55	29401	BELT_T1	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/10/2024 9:55	55105	WERT_T1	0	0	0	0	0	0	0.56	0.64	1	1	0	900	900	0
7/10/2024 9:56	46203	DANV_T2	2	5	3	1.2	0.38	-0.82	-2.1	-2.04	0	0	0	0	0	0
7/10/2024 9:56	55101	WERT_T1	18	47	29	0.61	0.58	-0.03	-1.47	-1.34	4	4	0	3300	3300	0
7/10/2024 9:56	20402	ASHF_T2	13	7	-6	1.59	1.49	-0.1	0	0	0	0	0	0	0	0
7/10/2024 9:56	56501	ROCK_T2	1	27	26	0.9	0.39	-0.51	-4.54	-4.47	0	0	0	0	0	0
7/10/2024 9:56	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 9:56	43304	WATS_T2	2	16	14	0.45	0.27	-0.18	-0.23	-0.19	1	1	0	600	600	0
7/10/2024 9:56	46204	DANV_T2	31	75	44	0.65	0.71	0.06	0	0	0	0	0	0	0	0
7/10/2024 9:56	56504	ROCK_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 9:56	24902	WHHA_T1	0	2	2	0	0	0	0.86	0.93	0	0	0	0	0	0
7/10/2024 9:56	20403	ASHF_T2	25	3	-22	0.61	0.1	-0.51	1.21	1.13	0	0	0	0	0	0
7/10/2024 9:56	13503	MCMI_T2	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
7/10/2024 9:56	40502	CRES_T2	1	3	2	0.1	0.3	0.2	-0.08	-0.05	0	0	0	0	0	0
7/10/2024 9:56	67605	WARW_T1	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
7/10/2024 9:56	20401	ASHF_T2	4	5	1	1.28	0.93	-0.35	0	0	0	0	0	0	0	0
7/10/2024 9:56	56803	BENV_T1	0	6	6	0	0.5	0.5	0	0	0	0	0	0	0	0
7/10/2024 9:56	61102	BERK_T5	0	0	0	0	0	0	0.58	0.46	1	1	0	300	300	0
7/10/2024 9:56	56801	BENV_T1	2	2	0	0.35	0.3	-0.05	-0.18	-0.13	1	1	0	600	600	0
7/10/2024 9:56	46206	DANV_T2	115	126	11	1.23	1.25	0.02	0	0	0	0	0	0	0	0
7/10/2024 9:57	20402	ASHF_T2	13	7	-6	1.59	1.49	-0.1	0	0	0	0	0	0	0	0
7/10/2024 9:57	20401	ASHF_T2	4	5	1	1.28	0.93	-0.35	0	0	0	0	0	0	0	0
7/10/2024 9:57	55101	WERT_T1	18	47	29	0.61	0.58	-0.03	-1.47	-1.34	4	4	0	3300	3300	0
7/10/2024 9:57	67605	WARW_T1	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
7/10/2024 9:57	20403	ASHF_T2	25	3	-22	0.61	0.1	-0.51	2.43	2.25	0	0	0	0	0	0
7/10/2024 9:57	61102	BERK_T5	0	0	0	0	0	0	0.58	0.46	1	1	0	300	300	0
7/10/2024 9:58	20601	GRWO_T2	156	212	56	0.97	1.02	0.05	1.08	1.11	0	0	0	0	0	0
7/10/2024 9:58	61102	BERK_T5	0	0	0	0	0	0	0.58	0.46	1	1	0	300	300	0
7/10/2024 9:59	46203	DANV_T2	2	5	3	1.2	0.38	-0.82	-2.1	-2.04	0	0	0	0	0	0
7/10/2024 9:59	46204	DANV_T2	31	75	44	0.65	0.71	0.06	0	0	0	0	0	0	0	0
7/10/2024 9:59	46206	DANV_T2	115	126	11	1.23	1.25	0.02	0	0	0	0	0	0	0	0
7/10/2024 10:00	40505	CRES_T1	4	4	0	0.9	0.98	0.08	1	1.04	0	0	0	0	0	0
7/10/2024 10:00	40504	CRES_T1	13	13	0	0.53	0.64	0.11	0	0	0	0	0	0	0	0
7/10/2024 10:00	40503	CRES_T1	1	3	2	0.7	0.7	0	0	0	0	0	0	0	0	0
7/10/2024 10:00	14605	SWHI_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
7/10/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	0.94	0.46	0	0	0	0	0	0
7/10/2024 10:00	11102	EGYP_T1	7	9	2	0.93	1.77	0.84	0	0	0	0	0	0	0	0
7/10/2024 10:00	52401	GRPA_T2	3	26	23	0.17	0.33	0.16	0	0	0	0	0	0	0	0
7/10/2024 10:00	11104	EGYP_T1	4	6	2	0.13	1.36	1.23	0	0	0	0	0	0	0	0
7/10/2024 10:00	64603	LEOL_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
7/10/2024 10:00	67201	TEHI_T1	13	22	9	0.79	0.72	-0.07	0	0	0	0	0	0	0	0
7/10/2024 10:00	67203	TEHI_T1	36	45	9	0.68	0.83	0.15	2.84	2.87	3	3	0	2100	2100	0
7/10/2024 10:00	52403	GRPA_T2	57	77	20	0.75	1.06	0.31	0	0	0	0	0	0	0	0
7/10/2024 10:00	66505	SMAN_T2	76	58	-18	0.37	0.46	0.09	0.77	0.81	4	4	0	2300	2300	0
7/10/2024 10:00	52402	GRPA_T2	2	12	10	0.65	0.77	0.12	0	0	0	0	0	0	0	0
7/10/2024 10:00	46204	DANV_T2	36	98	62	0.72	0.57	-0.15	0	0	0	0	0	0	0	0
7/10/2024 10:00	48302	ORWI_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
7/10/2024 10:00	46206	DANV_T2	112	136	24	1.22	1.18	-0.04	2.36	2.24	2	2	0	2100	2100	0
7/10/2024 10:00	60501	NMAN_T2	3	3	0	3.03	3.13	0.1	0	0	0	0	0	0	0	0
7/10/2024 10:00	46203	DANV_T2	5	1	-4	0.38	0.1	-0.28	-2.1	-2.04	0	0	0	0	0	0
7/10/2024 10:00	67502	WEWI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 10:00	67503	WEWI_T2	1	1	0	1.5	0.1	-1.4	0.15	0.19	0	0	0	0	0	0
7/10/2024 10:00	54701	NEBL_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
7/10/2024 10:00	52404	GRPA_T2	2	4	2	0.1	0.1	0	0.47	0.6	0	0	0	0	0	0
7/10/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
7/10/2024 10:00	66504	SMAN_T2	7	1	-6	0.51	0.1	-0.41	0	0	0	0	0	0	0	0
7/10/2024 10:00	11103	EGYP_T1	0	0	0	0	0	0	0.76	0.86	0	0	0	0	0	0
7/10/2024 10:00	11101	EGYP_T1	4	5	1	0.7	0.93	0.23	0	0	0	0	0	0	0	0
7/10/2024 10:02	66505	SMAN_T2	76	58	-18	0.37	0.46	0.09	0.77	0.81	4	4	0	2300	2300	0
7/10/2024 10:02	66504	SMAN_T2	7	1	-6	0.51	0.1	-0.41	0	0	0	0	0	0	0	0
7/10/2024 10:02	13503	MCMI_T2	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
7/10/2024 10:03	64603	LEOL_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
7/10/2024 10:07	14801	TREI_T2	164	192	28	0.98	1.53	0.55	1.54	1.56	0	0	0	0	0	0
7/10/2024 10:07	67804	WLAN_T1	10	10	0	0.74	1.01	0.27	0	0	0	0	0	0	0	0
7/10/2024 10:07	67801	WLAN_T1	36	56	20	0.64	0.65	0.01	-0.66	-0.53	0	0	0	0	0	0
7/10/2024 10:07	67803	WLAN_T1	1	0	-1	5.2	0	-5.2	0	0	0	0	0	0	0	0
7/10/2024 10:08	56501	ROCK_T2	26	7	-19	0.19	0.32	0.13	-6.71	-6.64	0	0	0	0	0	0
7/10/2024 10:08	56504	ROCK_T2	0	4	4	0	0.5	0.5	0	0	0	0	0	0	0	0
7/10/2024 10:08	43304	WATS_T2	14	22	8	0.5	0.38	-0.12	-0.19	-0.73	1	1	0	600	600	0
7/10/2024 10:08	59101	WALK_T2	3	5	2	1.07	0	-1.07	2.55	0.86	6	8	2	3600	4800	1200
7/10/2024 10:10	67201	TEHI_T1	13	22	9	0.79	0.72	-0.07	0.94	1.05	1	1	0	600	600	0
7/10/2024 10:10	56801	BENV_T1	1	4	3	0.3	0.9	0.6	-0.26	-0.23	2	2	0	1200	1200	0
7/10/2024 10:10	56803	BENV_T1	2	6	4	0.8	0.88	0.08	0	0	0	0	0	0	0	0
7/10/2024 10:10	67203	TEHI_T1	36	45	9	0.68	0.83	0.15	0	0	0	0	0	0	0	0
7/10/2024 10:10	45802	HEGI_T2	232	255	23	1.4	1.46	0.06	0.94	0.99	2	2	0	1200	1200	0
7/10/2024 10:10	59101	WALK_T2	3	5	2	1.07	0	-1.07	1.28	0.43	3	4	1	1800	2400	600
7/10/2024 10:11	56803	BENV_T1	2	6	4	0.8	0.88	0.08	0	0	0	0	0	0	0	0
7/10/2024 10:11	56801	BENV_T1	1	4	3	0.3	0.9	0.6	-0.13	-0.12	1	1	0	600	600	0
7/10/2024 10:11	58003	WCAR_T1	1	1	0	0.1	1	0.9	0.7	0.74	1	1	0	600	600	0
7/10/2024 10:11	58001	WCAR_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/10/2024 10:13	46203	DANV_T2	5	1	-4	0.38	0.1	-0.28	-4.08	-4.16	0	0	0	0	0	0
7/10/2024 10:13	46206	DANV_T2	112	136	24	1.22	1.18	-0.04	0	0	0	0	0	0	0	0
7/10/2024 10:13	11802	FRAN_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 10:13	46204	DANV_T2	36	98	62	0.72	0.57	-0.15	0	0	0	0	0	0	0	0
7/10/2024 10:13	11804	FRAN_T1	214	245	31	0.78	1.09	0.31	1.37	1.41	0	0	0	0	0	0
7/10/2024 10:14	52404	GRPA_T2	2	4	2	0.1	0.1	0	0	0	0	0	0	0	0	0
7/10/2024 10:14	52402	GRPA_T2	2	12	10	0.65	0.77	0.12	-0.4	-0.35	0	0	0	0	0	0
7/10/2024 10:14	52401	GRPA_T2	3	26	23	0.17	0.33	0.16	0	0	0	0	0	0	0	0
7/10/2024 10:14	62104	ELAN_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
7/10/2024 10:14	52403	GRPA_T2	57	77	20	0.75	1.06	0.31	0	0	0	0	0	0	0	0
7/10/2024 10:14	62102	ELAN_T1	0	16	16	0	1.68	1.68	0.58	-0.32	0	0	0	0	0	0
7/10/2024 10:15	46206	DANV_T2	117	128	11	1.16	1.01	-0.15	2.24	2.3	2	2	0	2100	2100	0
7/10/2024 10:15	52404	GRPA_T2	1	5	4	0.1	0.13	0.03	0	0	0	0	0	0	0	0
7/10/2024 10:15	52402	GRPA_T2	9	14	5	0.77	0.79	0.02	-0.4	-0.35	0	0	0	0	0	0
7/10/2024 10:15	52403	GRPA_T2	70	83	13	1.21	1.07	-0.14	0	0	0	0	0	0	0	0
7/10/2024 10:15	52401	GRPA_T2	26	4	-22	0.38	0.7	0.32	0	0	0	0	0	0	0	0
7/10/2024 10:15	46203	DANV_T2	1	3	2	0.1	0.1	0	-2.04	-2.08	0	0	0	0	0	0
7/10/2024 10:15	46204	DANV_T2	75	91	16	0.58	0.53	-0.05	0	0	0	0	0	0	0	0
7/10/2024 10:16	52404	GRPA_T2	1	5	4	0.1	0.13	0.03	0.6	0.57	0	0	0	0	0	0
7/10/2024 10:16	52402	GRPA_T2	9	14	5	0.77	0.79	0.02	-0.4	-0.35	0	0	0	0	0	0
7/10/2024 10:16	55405	SHER_T1	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
7/10/2024 10:16	40101	HUNT_T2	27	159	132	0.59	0.42	-0.17	-1.51	-1.7	0	0	0	0	0	0
7/10/2024 10:16	52401	GRPA_T2	26	4	-22	0.38	0.7	0.32	0	0	0	0	0	0	0	0
7/10/2024 10:16	52403	GRPA_T2	70	83	13	1.21	1.07	-0.14	0	0	0	0	0	0	0	0
7/10/2024 10:16	47001	HUGH_T2	3	3	0	7.37	7.4	0.03	-1.11	-0.96	1	1	0	900	900	0
7/10/2024 10:17	52403	GRPA_T2	70	83	13	1.21	1.07	-0.14	0	0	0	0	0	0	0	0
7/10/2024 10:17	52402	GRPA_T2	9	14	5	0.77	0.79	0.02	-0.4	-0.35	0	0	0	0	0	0
7/10/2024 10:17	52401	GRPA_T2	26	4	-22	0.38	0.7	0.32	0	0	0	0	0	0	0	0
7/10/2024 10:17	52404	GRPA_T2	1	5	4	0.1	0.13	0.03	0	0	0	0	0	0	0	0
7/10/2024 10:18	63501	HEID_TBK1-2	0	0	0	0	0	0	0.54	0.5	1	1	0	900	900	0
7/10/2024 10:18	52401	GRPA_T2	26	4	-22	0.38	0.7	0.32	0	0	0	0	0	0	0	0
7/10/2024 10:18	52404	GRPA_T2	1	5	4	0.1	0.13	0.03	0.6	0.57	0	0	0	0	0	0
7/10/2024 10:18	47001	HUGH_T2	3	3	0	7.37	7.4	0.03	-1.11	-0.96	1	1	0	900	900	0
7/10/2024 10:18	52403	GRPA_T2	70	83	13	1.21	1.07	-0.14	0	0	0	0	0	0	0	0
7/10/2024 10:18	47403	PENS_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
7/10/2024 10:18	52402	GRPA_T2	9	14	5	0.77	0.79	0.02	0	0	0	0	0	0	0	0
7/10/2024 10:18	47401	PENS_T1	6	30	24	0.88	0.7	-0.18	0.51	0.51	0	0	0	0	0	0
7/10/2024 10:18	25503	MADI_T1	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
7/10/2024 10:18	25501	MADI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 10:19	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 10:20	47401	PENS_T1	6	30	24	0.88	0.7	-0.18	0.51	0.51	0	0	0	0	0	0
7/10/2024 10:20	47403	PENS_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
7/10/2024 10:21	65604	QVIL_T2	1	8	7	0.1	0.4	0.3	2.26	2.32	0	0	0	0	0	0
7/10/2024 10:21	65603	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 10:21	64801	MONE_T2	11	0	-11	0.54	0	-0.54	0.05	0.08	0	0	0	0	0	0
7/10/2024 10:21	47403	PENS_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
7/10/2024 10:21	47401	PENS_T1	6	30	24	0.88	0.7	-0.18	1.01	1.24	0	0	0	0	0	0
7/10/2024 10:21	65602	QVIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 10:22	61101	BERK_T5	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 10:22	41903	REED_T1	6	6	0	1.17	1.18	0.01	0	0	0	0	0	0	0	0
7/10/2024 10:22	41902	REED_T1	8	8	0	0.48	0.4	-0.08	-0.18	-0.17	1	1	0	900	900	0
7/10/2024 10:22	56504	ROCK_T2	2	5	3	0.5	1.08	0.58	0	0	0	0	0	0	0	0
7/10/2024 10:22	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/10/2024 10:22	56501	ROCK_T2	7	4	-3	1.04	2.4	1.36	-2.21	-2.08	0	0	0	0	0	0
7/10/2024 10:22	61102	BERK_T5	0	0	0	0	0	0	0.53	0.56	1	1	0	300	300	0
7/10/2024 10:23	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/10/2024 10:23	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 10:23	14801	TREI_T2	191	197	6	1.69	1.54	-0.15	0	0	0	0	0	0	0	0
7/10/2024 10:23	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 10:23	41902	REED_T1	8	8	0	0.48	0.4	-0.08	-0.18	-0.17	1	1	0	900	900	0
7/10/2024 10:23	55101	WERT_T1	47	17	-30	0.51	0.89	0.38	-1.83	-1.7	4	4	0	3300	3300	0
7/10/2024 10:23	66703	STRA_T1	9	9	0	0.5	0.8	0.3	0.05	0.2	0	0	0	0	0	0
7/10/2024 10:23	66701	STRA_T1	8	8	0	1.05	0.25	-0.8	0	0	0	0	0	0	0	0
7/10/2024 10:23	41903	REED_T1	6	6	0	1.17	1.18	0.01	0	0	0	0	0	0	0	0
7/10/2024 10:24	56504	ROCK_T2	2	5	3	0.5	1.08	0.58	0	0	0	0	0	0	0	0
7/10/2024 10:24	56501	ROCK_T2	7	4	-3	1.04	2.4	1.36	-4.43	-4.16	0	0	0	0	0	0
7/10/2024 10:24	61101	BERK_T5	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 10:24	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 10:24	60201	ATGL_T2	0	0	0	0	0	0	0.62	0.65	2	2	0	900	900	0
7/10/2024 10:24	55101	WERT_T1	47	17	-30	0.51	0.89	0.38	-1.83	-1.7	4	4	0	3300	3300	0
7/10/2024 10:24	58402	MORO_T1	0	1	1	0	0.2	0.2	-0.37	-0.31	4	4	0	2850	2850	0
7/10/2024 10:24	61102	BERK_T5	0	0	0	0	0	0	0.53	0.56	1	1	0	300	300	0
7/10/2024 10:25	61101	BERK_T5	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 10:25	56803	BENV_T1	5	7	2	0.88	2.1	1.22	0	0	0	0	0	0	0	0
7/10/2024 10:25	61102	BERK_T5	0	0	0	0	0	0	0.53	0.56	1	1	0	300	300	0
7/10/2024 10:25	56801	BENV_T1	2	7	5	1.2	0.75	-0.45	-0.46	-0.19	4	4	0	2400	2400	0
7/10/2024 10:26	56803	BENV_T1	5	7	2	0.88	2.1	1.22	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/10/2024 10:26	56504	ROCK_T2	2	5	3	0.5	1.08	0.58	0	0	0	0	0	0	0	0
7/10/2024 10:26	56801	BENV_T1	2	7	5	1.2	0.75	-0.45	-0.35	-0.14	3	3	0	1800	1800	0
7/10/2024 10:26	56501	ROCK_T2	7	4	-3	1.04	2.4	1.36	-2.21	-2.08	0	0	0	0	0	0
7/10/2024 10:27	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 10:27	56803	BENV_T1	5	7	2	0.88	2.1	1.22	0	0	0	0	0	0	0	0
7/10/2024 10:27	56801	BENV_T1	2	7	5	1.2	0.75	-0.45	-0.12	-0.05	1	1	0	600	600	0
7/10/2024 10:27	55101	WERT_T1	47	17	-30	0.51	0.89	0.38	-1.83	-1.7	4	4	0	3300	3300	0
7/10/2024 10:28	29402	BELT_T1	1	1	0	9	8.5	-0.5	0	0	0	0	0	0	0	0
7/10/2024 10:28	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/10/2024 10:29	56801	BENV_T1	2	7	5	1.2	0.75	-0.45	-0.12	-0.05	1	1	0	600	600	0
7/10/2024 10:29	56803	BENV_T1	5	7	2	0.88	2.1	1.22	0	0	0	0	0	0	0	0
7/10/2024 10:29	20601	GRWO_T2	197	275	78	1.05	1.08	0.03	2.25	2.29	0	0	0	0	0	0
7/10/2024 10:29	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 10:29	55101	WERT_T1	47	17	-30	0.51	0.89	0.38	-1.83	-1.7	4	4	0	3300	3300	0
7/10/2024 10:30	29401	BELT_T1	0	1	1	0	0	0	0	0	1	1	0	900	900	0
7/10/2024 10:30	64302	LINC_T2	24	26	2	0.87	0.43	-0.44	1.87	1.91	0	0	0	0	0	0
7/10/2024 10:30	29402	BELT_T1	1	1	0	8.5	8.4	-0.1	0	0	0	0	0	0	0	0
7/10/2024 10:31	16302	ALPA_T2	0	0	0	0	0	0	0.79	0.91	0	0	0	0	0	0
7/10/2024 10:31	64202	KINZ_T1	5	33	28	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
7/10/2024 10:31	64201	KINZ_T1	12	36	24	0.47	0.38	-0.09	0	0	0	0	0	0	0	0
7/10/2024 10:31	64203	KINZ_T1	17	57	40	0.88	0.59	-0.29	0.82	0.91	3	3	0	2100	2100	0
7/10/2024 10:31	64204	KINZ_T1	2	8	6	0.2	0.95	0.75	0	0	0	0	0	0	0	0
7/10/2024 10:32	23401	HONE_T2	19	173	154	0.72	0.45	-0.27	0.17	0.23	0	0	0	0	0	0
7/10/2024 10:32	20601	GRWO_T2	247	270	23	1.09	0.33	-0.76	1.12	1.14	0	0	0	0	0	0
7/10/2024 10:32	40902	JESH_T1	10	17	7	0.86	0.43	-0.43	-0.46	-0.53	3	3	0	1800	1800	0
7/10/2024 10:32	16302	ALPA_T2	0	0	0	0	0	0	0.79	0.91	0	0	0	0	0	0
7/10/2024 10:32	20401	ASHF_T2	5	5	0	1.7	1.72	0.02	0	0	0	0	0	0	0	0
7/10/2024 10:32	67902	WNHO_T2	8	8	0	3.55	0	-3.55	1.22	1.32	2	2	0	2100	2100	0
7/10/2024 10:32	29401	BELT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 10:32	20403	ASHF_T2	3	49	46	0.27	0.3	0.03	1.11	0.88	0	0	0	0	0	0
7/10/2024 10:32	67906	WNHO_T2	1	1	0	3.5	0	-3.5	0	0	0	0	0	0	0	0
7/10/2024 10:32	20402	ASHF_T2	16	25	9	0.93	1.28	0.35	0	0	0	0	0	0	0	0
7/10/2024 10:32	40901	JESH_T1	1	2	1	2	2	0	0	0	0	0	0	0	0	0
7/10/2024 10:32	29402	BELT_T1	1	1	0	8.5	8.4	-0.1	0	0	0	0	0	0	0	0
7/10/2024 10:33	20601	GRWO_T2	247	270	23	1.09	0.33	-0.76	1.12	1.14	0	0	0	0	0	0
7/10/2024 10:34	47401	PENS_T1	17	32	15	0.73	1.1	0.37	0.51	0.62	0	0	0	0	0	0
7/10/2024 10:34	47403	PENS_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
7/10/2024 10:35	47403	PENS_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
7/10/2024 10:35	47401	PENS_T1	17	32	15	0.73	1.1	0.37	0.51	0.62	0	0	0	0	0	0
7/10/2024 10:36	47401	PENS_T1	17	32	15	0.73	1.1	0.37	1.24	1.29	0	0	0	0	0	0
7/10/2024 10:36	47403	PENS_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
7/10/2024 10:36	43202	MVIL_T2	2	4	2	0.3	0.2	-0.1	-0.29	-0.32	0	0	0	0	0	0
7/10/2024 10:36	43201	MVIL_T2	40	33	-7	0.61	0.6	-0.01	0	0	0	0	0	0	0	0
7/10/2024 10:37	24902	WHHA_T1	2	3	1	0.45	0.8	0.35	0.9	0.95	0	0	0	0	0	0
7/10/2024 10:37	59202	THOM_T1	1	4	3	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
7/10/2024 10:37	58001	WCAR_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/10/2024 10:37	43202	MVIL_T2	2	4	2	0.3	0.2	-0.1	-0.29	-0.32	0	0	0	0	0	0
7/10/2024 10:37	47401	PENS_T1	17	32	15	0.73	1.1	0.37	0.62	0.64	0	0	0	0	0	0
7/10/2024 10:37	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/10/2024 10:37	43201	MVIL_T2	40	33	-7	0.61	0.6	-0.01	0	0	0	0	0	0	0	0
7/10/2024 10:37	58003	WCAR_T1	1	3	2	1	0.47	-0.53	0.79	0.85	1	1	0	600	600	0
7/10/2024 10:37	47403	PENS_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
7/10/2024 10:38	58001	WCAR_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/10/2024 10:38	58003	WCAR_T1	1	3	2	1	0.47	-0.53	0.79	0.85	1	1	0	600	600	0
7/10/2024 10:38	44301	BEAV_T2	13	42	29	0.71	0.67	-0.04	0.82	0.99	2	2	0	1500	1500	0
7/10/2024 10:39	44301	BEAV_T2	13	42	29	0.71	0.67	-0.04	0.82	0.99	2	2	0	1500	1500	0
7/10/2024 10:40	59202	THOM_T1	1	4	3	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
7/10/2024 10:40	56803	BENV_T1	5	4	-1	1.12	1.1	-0.02	0	0	0	0	0	0	0	0
7/10/2024 10:40	56801	BENV_T1	4	6	2	0.9	1.07	0.17	-0.05	-0.05	1	1	0	600	600	0
7/10/2024 10:41	55103	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/10/2024 10:41	55101	WERT_T1	9	36	27	0.89	0.83	-0.06	-1.7	-1.71	4	4	0	3300	3300	0
7/10/2024 10:42	44801	EDAN_T2	4	12	8	0.77	0.8	0.03	1.11	1.15	0	0	0	0	0	0
7/10/2024 10:42	46204	DANV_T2	91	35	-56	0.53	0.52	-0.01	0	0	0	0	0	0	0	0
7/10/2024 10:42	46203	DANV_T2	1	6	5	0.1	0.1	0	-3.92	-3.86	0	0	0	0	0	0
7/10/2024 10:42	46206	DANV_T2	128	61	-67	1.22	0.72	-0.5	0	0	0	0	0	0	0	0
7/10/2024 10:42	44301	BEAV_T2	13	42	29	0.71	0.67	-0.04	0.82	0.99	2	2	0	1500	1500	0
7/10/2024 10:43	46206	DANV_T2	128	61	-67	1.22	0.72	-0.5	0	0	0	0	0	0	0	0
7/10/2024 10:43	46203	DANV_T2	1	6	5	0.1	0.1	0	-1.96	-1.93	0	0	0	0	0	0
7/10/2024 10:43	46204	DANV_T2	91	35	-56	0.53	0.52	-0.01	0	0	0	0	0	0	0	0
7/10/2024 10:45	52002	LING_T2	1	15	14	0.1	0.16	0.06	0.1	0.22	0	0	0	0	0	0
7/10/2024 10:45	64101	REFR_T1	10	27	17	0.27	0.48	0.21	0.53	0.53	0	0	0	0	0	0
7/10/2024 10:45	46204	DANV_T2	34	27	-7	0.54	0.68	0.14	0	0	0	0	0	0	0	0
7/10/2024 10:45	46206	DANV_T2	61	56	-5	1.01	0.74	-0.27	0	0	0	0	0	0	0	0
7/10/2024 10:45	46203	DANV_T2	3	17	14	0.1	0.27	0.17	-1.96	-1.93	0	0	0	0	0	0
7/10/2024 10:46	52002	LING_T2	1	15	14	0.1	0.16	0.06	0.1	0.22	0	0	0	0	0	0
7/10/2024 10:46	50701	SMEC_T1	0	1	1	0	0.7	0.7	-0.36	-0.41	1	1	0	1200	1200	0
7/10/2024 10:47	66505	SMAN_T2	274	320	46	0.51	0.45	-0.06	0	0	0	0	0	0	0	0
7/10/2024 10:47	52002	LING_T2	1	15	14	0.1	0.16	0.06	0.19	0.44	0	0	0	0	0	0
7/10/2024 10:47	63804	HEMP_T1	7	1	-6	1.81	8.5	6.69	0.5	-0.65	0	0	0	0	0	0
7/10/2024 10:47	66503	SMAN_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 10:47	64101	REFR_T1	10	27	17	0.27	0.48	0.21	3.19	3.2	0	0	0	0	0	0
7/10/2024 10:47	66504	SMAN_T2	6	7	1	0.27	0	-0.27	0.23	0.11	0	0	0	0	0	0
7/10/2024 10:48	57301	MOAL_T2	2	2	0	1.15	0	-1.15	0	0	0	0	0	0	0	0
7/10/2024 10:48	57304	MOAL_T2	4	5	1	0.78	1.9	1.12	0.2	0.16	0	0	0	0	0	0
7/10/2024 10:48	57302	MOAL_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/10/2024 10:48	64101	REFR_T1	10	27	17	0.27	0.48	0.21	0.53	0.53	0	0	0	0	0	0
7/10/2024 10:48	52002	LING_T2	1	15	14	0.1	0.16	0.06	0.1	0.22	0	0	0	0	0	0
7/10/2024 10:48	57303	MOAL_T2	1	1	0	8.3	7.9	-0.4	0	0	0	0	0	0	0	0
7/10/2024 10:48	57306	MOAL_T2	7	4	-3	1.27	0	-1.27	0	0	0	0	0	0	0	0
7/10/2024 10:49	52002	LING_T2	1	15	14	0.1	0.16	0.06	0.1	0.22	0	0	0	0	0	0
7/10/2024 10:49	64101	REFR_T1	10	27	17	0.27	0.48	0.21	0.53	0.53	0	0	0	0	0	0
7/10/2024 10:50	66503	SMAN_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 10:50	64101	REFR_T1	10	27	17	0.27	0.48	0.21	1.06	1.07	0	0	0	0	0	0
7/10/2024 10:50	66505	SMAN_T2	274	320	46	0.51	0.45	-0.06	0	0	0	0	0	0	0	0
7/10/2024 10:50	52002	LING_T2	1	15	14	0.1	0.16	0.06	0.1	0.22	0	0	0	0	0	0
7/10/2024 10:50	66504	SMAN_T2	6	7	1	0.27	0	-0.27	0.47	0.22	0	0	0	0	0	0
7/10/2024 10:51	56501	ROCK_T2	2	18	16	0.45	0.21	-0.24	0	0	0	0	0	0	0	0
7/10/2024 10:51	50701	SMEC_T1	0	1	1	0	0.7	0.7	-0.36	-0.41	1	1	0	1200	1200	0
7/10/2024 10:51	56504	ROCK_T2	5	5	0	1.34	0.95	-0.39	0.44	0.54	0	0	0	0	0	0
7/10/2024 10:52	67605	WARW_T1	1	1	0	0.3	0.7	0.4	-0.66	-0.63	0	0	0	0	0	0
7/10/2024 10:52	43304	WATS_T2	6	47	41	0.3	0.66	0.36	-1.12	-1.18	2	2	0	1200	1200	0
7/10/2024 10:52	43302	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 10:52	56504	ROCK_T2	5	5	0	1.34	0.95	-0.39	0.54	0.55	0	0	0	0	0	0
7/10/2024 10:52	56501	ROCK_T2	2	18	16	0.45	0.21	-0.24	0	0	0	0	0	0	0	0
7/10/2024 10:54	66703	STRA_T1	8	34	26	0.78	0.42	-0.36	0.17	0.21	0	0	0	0	0	0
7/10/2024 10:54	56501	ROCK_T2	2	18	16	0.45	0.21	-0.24	0	0	0	0	0	0	0	0
7/10/2024 10:54	66701	STRA_T1	8	11	3	0.58	0.85	0.27	0	0	0	0	0	0	0	0
7/10/2024 10:54	56504	ROCK_T2	5	5	0	1.34	0.95	-0.39	0.54	0.55	0	0	0	0	0	0
7/10/2024 10:55	67602	WARW_T2	0	0	0	0	0	0	-0.13	-0.07	2	2	0	1500	1500	0
7/10/2024 10:56	61703	ELIZ_T1	0	0	0	0	0	0	-1.71	-1.82	2	2	0	2100	2100	0
7/10/2024 10:56	61701	ELIZ_T1	1	1	0	2.9	2.6	-0.3	0	0	0	0	0	0	0	0
7/10/2024 10:57	46203	DANV_T2	3	17	14	0.1	0.27	0.17	-1.93	-1.94	0	0	0	0	0	0
7/10/2024 10:57	46206	DANV_T2	61	56	-5	1.01	0.74	-0.27	0	0	0	0	0	0	0	0
7/10/2024 10:57	46204	DANV_T2	34	27	-7	0.54	0.68	0.14	0	0	0	0	0	0	0	0
7/10/2024 10:57	61701	ELIZ_T1	1	1	0	2.9	2.6	-0.3	0	0	0	0	0	0	0	0
7/10/2024 10:57	55101	WERT_T1	17	36	19	0.83	0.82	-0.01	-1.71	-1.7	4	4	0	3300	3300	0
7/10/2024 10:57	55103	WERT_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/10/2024 10:57	61703	ELIZ_T1	0	0	0	0	0	0	-1.71	-1.82	2	2	0	2100	2100	0
7/10/2024 10:58	61703	ELIZ_T1	0	0	0	0	0	0	-1.71	-1.82	2	2	0	2100	2100	0
7/10/2024 10:58	56802	BENV_T2	1	0	-1	1	0	-1	-1.29	-1.16	0	0	0	0	0	0
7/10/2024 10:58	61701	ELIZ_T1	1	1	0	2.9	2.6	-0.3	0	0	0	0	0	0	0	0
7/10/2024 10:59	64204	KINZ_T1	3	51	48	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
7/10/2024 10:59	64203	KINZ_T1	29	132	103	0.67	0.64	-0.03	0	0	0	0	0	0	0	0
7/10/2024 10:59	61701	ELIZ_T1	1	1	0	2.9	2.6	-0.3	0	0	0	0	0	0	0	0
7/10/2024 10:59	64202	KINZ_T1	13	50	37	0.42	0.47	0.05	0	0	0	0	0	0	0	0
7/10/2024 10:59	64201	KINZ_T1	16	241	225	0.4	0.43	0.03	-1.2	-1.06	10	10	0	6600	6600	0
7/10/2024 10:59	61703	ELIZ_T1	0	0	0	0	0	0	-3.42	-3.64	4	4	0	4200	4200	0
7/10/2024 10:59	40101	HUNT_T2	159	237	78	0.78	0.72	-0.06	-0.74	-0.76	0	0	0	0	0	0
7/10/2024 11:00	46204	DANV_T2	25	37	12	0.72	0.78	0.06	0	0	0	0	0	0	0	0
7/10/2024 11:00	64203	KINZ_T1	56	349	293	0.64	0.67	0.03	0	0	0	0	0	0	0	0
7/10/2024 11:00	46206	DANV_T2	54	56	2	0.73	0.77	0.04	0	0	0	0	0	0	0	0
7/10/2024 11:00	64202	KINZ_T1	32	59	27	0.48	0.73	0.25	0	0	0	0	0	0	0	0
7/10/2024 11:00	64201	KINZ_T1	36	404	368	0.44	0.45	0.01	-0.6	-0.53	5	5	0	3300	3300	0
7/10/2024 11:00	46203	DANV_T2	4	4	0	0.35	0.3	-0.05	-1.93	-1.94	0	0	0	0	0	0
7/10/2024 11:00	64204	KINZ_T1	7	195	188	0.63	0.39	-0.24	0	0	0	0	0	0	0	0
7/10/2024 11:02	43202	MVIL_T2	3	6	3	0.37	0.4	0.03	-0.64	-0.6	0	0	0	0	0	0
7/10/2024 11:02	43201	MVIL_T2	33	62	29	0.63	0.79	0.16	0	0	0	0	0	0	0	0
7/10/2024 11:03	42903	MIDD_T2	0	0	0	0	0	0	1.09	1.13	1	1	0	1200	1200	0
7/10/2024 11:03	42902	MIDD_T2	26	23	-3	0.82	0.74	-0.08	0	0	0	0	0	0	0	0
7/10/2024 11:03	42901	MIDD_T2	5	8	3	0.54	0.72	0.18	0	0	0	0	0	0	0	0
7/10/2024 11:04	67904	WNHO_T1	0	0	0	0	0	0	-1.65	-1.6	2	2	0	2100	2100	0
7/10/2024 11:04	55408	SHER_T2	1	1	0	2	1.7	-0.3	-0.69	-0.69	2	2	0	2400	2400	0
7/10/2024 11:09	56802	BENV_T2	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
7/10/2024 11:10	44801	EDAN_T2	12	24	12	0.48	0.5	0.02	1.12	1.19	0	0	0	0	0	0
7/10/2024 11:11	20401	ASHF_T2	5	6	1	1.72	1.44	-0.28	0	0	0	0	0	0	0	0
7/10/2024 11:11	60102	COCA_T1	0	0	0	0	0	0	0.06	-0.09	3	3	0	2100	2100	0
7/10/2024 11:11	20403	ASHF_T2	49	48	-1	0.5	0.6	0.1	1.39	1.15	0	0	0	0	0	0
7/10/2024 11:11	56801	BENV_T1	6	7	1	1.08	0.84	-0.24	0	0	0	0	0	0	0	0
7/10/2024 11:11	61102	BERK_T5	0	0	0	0	0	0	0.75	0.65	1	1	0	300	300	0
7/10/2024 11:11	56803	BENV_T1	3	9	6	1	1.22	0.22	0.13	0.1	1	1	0	600	600	0
7/10/2024 11:11	59101	WALK_T2	1	2	1	0.2	0	-0.2	0.47	1.16	4	3	-1	2400	1800	-600
7/10/2024 11:11	20402	ASHF_T2	23	43	20	1.53	1.1	-0.43	0	0	0	0	0	0	0	0
7/10/2024 11:11	56802	BENV_T2	0	0	0	0	0	0	-1.16	-1.12	0	0	0	0	0	0
7/10/2024 11:13	20402	ASHF_T2	23	43	20	1.53	1.1	-0.43	0	0	0	0	0	0	0	0
7/10/2024 11:13	20403	ASHF_T2	49	48	-1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/10/2024 11:13	64101	REFR_T1	25	32	7	0.48	0.34	-0.14	1.29	0.39	0	0	0	0	0	0
7/10/2024 11:13	44801	EDAN_T2	12	24	12	0.48	0.5	0.02	1.12	1.19	0	0	0	0	0	0
7/10/2024 11:13	20401	ASHF_T2	5	6	1	1.72	1.44	-0.28	0.17	0.29	1	1	0	600	600	0
7/10/2024 11:14	53902	HALI_T2	1	1	0	3.9	4.2	0.3	0	0	0	0	0	0	0	0
7/10/2024 11:14	56802	BENV_T2	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
7/10/2024 11:14	53903	HALI_T2	0	2	2	0	0.55	0.55	0.37	0.38	0	0	0	0	0	0
7/10/2024 11:16	53903	HALI_T2	2	2	0	0.55	0.25	-0.3	0.37	0.38	0	0	0	0	0	0
7/10/2024 11:16	53902	HALI_T2	1	1	0	4.2	4.2	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/10/2024 11:18	42902	MIDD_T2	22	28	6	0.79	0.79	0	0	0	0	0	0	0	0	0
7/10/2024 11:18	42903	MIDD_T2	0	1	1	0	0	0	1.13	1.06	1	1	0	1200	1200	0
7/10/2024 11:18	57104	SPHI_T2	0	0	0	0	0	0	0.48	-0.42	0	1	1	0	900	900
7/10/2024 11:18	64203	KINZ_T1	132	376	244	0.68	0.72	0.04	0	0	0	0	0	0	0	0
7/10/2024 11:18	66502	SMAN_T2	0	0	0	0	0	0	-0.44	-0.37	2	2	0	1800	1800	0
7/10/2024 11:18	64201	KINZ_T1	240	426	186	0.45	0.71	0.26	0.53	-0.57	5	5	0	3300	3300	0
7/10/2024 11:18	42901	MIDD_T2	5	10	5	0.88	0.8	-0.08	0	0	0	0	0	0	0	0
7/10/2024 11:18	66504	SMAN_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 11:18	67902	WNHO_T2	17	16	-1	2.99	2.91	-0.08	0	0	0	0	0	0	0	0
7/10/2024 11:18	64204	KINZ_T1	48	239	191	0.4	0.49	0.09	0	0	0	0	0	0	0	0
7/10/2024 11:18	40702	FFLD_T1	1	0	-1	0.3	0	-0.3	-0.99	-1	1	1	0	1200	1200	0
7/10/2024 11:18	64202	KINZ_T1	50	60	10	0.73	1.28	0.55	0	0	0	0	0	0	0	0
7/10/2024 11:18	66503	SMAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 11:18	40101	HUNT_T2	222	275	53	0.83	0.78	-0.05	-0.76	-0.62	0	0	0	0	0	0
7/10/2024 11:18	66505	SMAN_T2	252	229	-23	0.46	0.38	-0.08	0	0	0	0	0	0	0	0
7/10/2024 11:18	40701	FFLD_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
7/10/2024 11:18	67906	WNHO_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
7/10/2024 11:18	67901	WNHO_T2	0	0	0	0	0	0	-0.22	-0.18	2	2	0	2100	2100	0
7/10/2024 11:19	55408	SHER_T2	1	1	0	1.8	1.7	-0.1	-0.35	-0.3	1	1	0	1200	1200	0
7/10/2024 11:19	58303	NOTT_T2	0	0	0	0	0	0	0.11	0.17	1	1	0	900	900	0
7/10/2024 11:19	58302	NOTT_T1	0	0	0	0	0	0	-0.91	-0.86	2	2	0	2100	2100	0
7/10/2024 11:20	44703	MUNC_T2	26	39	13	0.83	0.54	-0.29	1.47	1.44	0	0	0	0	0	0
7/10/2024 11:21	57401	SPAN_T1	157	267	110	0.42	0.46	0.04	-0.1	-0.16	1	1	0	600	600	0
7/10/2024 11:21	52501	PROG_T1	0	0	0	0	0	0	-0.08	-0.14	1	1	0	300	300	0
7/10/2024 11:21	57403	SPAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/10/2024 11:22	67002	STHI_T2	3	4	1	0.4	0.45	0.05	1.02	1.04	1	1	0	600	600	0
7/10/2024 11:23	57403	SPAN_T1	1	1	0	0.2	0.1	-0.1	-0.24	-0.2	0	0	0	0	0	0
7/10/2024 11:23	57401	SPAN_T1	157	267	110	0.42	0.46	0.04	0	0	0	0	0	0	0	0
7/10/2024 11:24	61102	BERK_T5	0	0	0	0	0	0	1.3	1.37	2	2	0	600	600	0
7/10/2024 11:24	58001	WCAR_T1	3	5	2	0.2	0.32	0.12	-0.57	-0.48	0	0	0	0	0	0
7/10/2024 11:24	51302	WIND_T2	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
7/10/2024 11:24	51306	WIND_T2	0	0	0	0	0	0	-0.39	-0.46	0	0	0	0	0	0
7/10/2024 11:24	58003	WCAR_T1	4	9	5	0.58	0.36	-0.22	0	0	0	0	0	0	0	0
7/10/2024 11:25	61102	BERK_T5	0	0	0	0	0	0	0.65	0.69	1	1	0	300	300	0
7/10/2024 11:26	61102	BERK_T5	0	0	0	0	0	0	1.3	1.37	2	2	0	600	600	0
7/10/2024 11:27	60801	BUCK_T1	0	0	0	0	0	0	-0.06	-0.02	1	1	0	600	600	0
7/10/2024 11:27	60803	BUCK_T1	0	6	6	0	0.22	0.22	0	0	0	0	0	0	0	0
7/10/2024 11:27	61102	BERK_T5	0	0	0	0	0	0	0.65	0.69	1	1	0	300	300	0
7/10/2024 11:30	52401	GRPA_T2	18	25	7	0.41	0.15	-0.26	0	0	0	0	0	0	0	0
7/10/2024 11:30	64201	KINZ_T1	404	429	25	0.82	0.7	-0.12	0	0	0	0	0	0	0	0
7/10/2024 11:30	52404	GRPA_T2	16	34	18	0.44	0.36	-0.08	0	0	0	0	0	0	0	0
7/10/2024 11:30	28403	HART_T2	0	0	0	0	0	0	-0.32	-0.32	1	1	0	900	900	0
7/10/2024 11:30	52403	GRPA_T2	86	102	16	1.18	1.54	0.36	-0.21	-0.16	0	0	0	0	0	0
7/10/2024 11:30	54504	ENOL_T2	0	0	0	0	0	0	-0.9	-1.02	1	1	0	600	600	0
7/10/2024 11:30	52402	GRPA_T2	7	18	11	0.77	0.47	-0.3	0	0	0	0	0	0	0	0
7/10/2024 11:30	64203	KINZ_T1	349	364	15	0.76	0.71	-0.05	0.9	0.87	3	3	0	2100	2100	0
7/10/2024 11:30	64204	KINZ_T1	195	225	30	0.5	0.5	0	0	0	0	0	0	0	0	0
7/10/2024 11:30	64202	KINZ_T1	58	58	0	1.36	1.09	-0.27	0	0	0	0	0	0	0	0
7/10/2024 11:31	29401	BELT_T1	0	1	1	0	0	0	0	0	1	1	0	900	900	0
7/10/2024 11:31	29402	BELT_T1	1	2	1	7.7	7.5	-0.2	0	0	0	0	0	0	0	0
7/10/2024 11:32	44801	EDAN_T2	23	45	22	0.42	0.64	0.22	1.19	1.18	0	0	0	0	0	0
7/10/2024 11:32	46801	HEPB_T2	1	7	6	0.4	0.2	-0.2	0.51	0.58	0	0	0	0	0	0
7/10/2024 11:32	52403	GRPA_T2	86	102	16	1.18	1.54	0.36	0	0	0	0	0	0	0	0
7/10/2024 11:32	52401	GRPA_T2	18	25	7	0.41	0.15	-0.26	-0.66	-0.64	0	0	0	0	0	0
7/10/2024 11:32	52402	GRPA_T2	7	18	11	0.77	0.47	-0.3	0	0	0	0	0	0	0	0
7/10/2024 11:32	52404	GRPA_T2	16	34	18	0.44	0.36	-0.08	0	0	0	0	0	0	0	0
7/10/2024 11:33	65503	MOJO_T2	2	23	21	0.3	0.57	0.27	0.63	0.67	1	1	0	900	900	0
7/10/2024 11:34	65001	NEFF_T2	0	0	0	0	0	0	-0.36	-0.31	1	1	0	1200	1200	0
7/10/2024 11:34	66503	SMAN_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
7/10/2024 11:34	66504	SMAN_T2	0	13	13	0	0.33	0.33	0.18	0.25	0	0	0	0	0	0
7/10/2024 11:34	66505	SMAN_T2	107	275	168	0.41	0.48	0.07	0	0	0	0	0	0	0	0
7/10/2024 11:36	67605	WARW_T1	1	2	1	0.6	0.35	-0.25	-0.55	-0.65	0	0	0	0	0	0
7/10/2024 11:37	44203	POIN_T2	6	9	3	1.65	0.67	-0.98	0	0	0	0	0	0	0	0
7/10/2024 11:37	44202	POIN_T2	0	0	0	0	0	0	-0.68	-0.65	2	2	0	1800	1800	0
7/10/2024 11:37	66901	SHIL_T2	7	6	-1	0.51	0	-0.51	-0.81	-0.81	0	0	0	0	0	0
7/10/2024 11:37	66902	SHIL_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
7/10/2024 11:38	67605	WARW_T1	1	2	1	0.6	0.35	-0.25	-0.55	-0.65	0	0	0	0	0	0
7/10/2024 11:40	59101	WALK_T2	2	4	2	0.7	0.2	-0.5	1.5	1.64	6	6	0	3600	3600	0
7/10/2024 11:40	56802	BENV_T2	0	0	0	0	0	0	-0.57	-0.54	0	0	0	0	0	0
7/10/2024 11:41	56802	BENV_T2	0	0	0	0	0	0	-0.57	-0.54	0	0	0	0	0	0
7/10/2024 11:43	60101	COCA_T1	0	1	1	0	0.1	0.1	-0.12	-0.07	1	1	0	1200	1200	0
7/10/2024 11:44	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/10/2024 11:44	41602	CLEV_T1	74	78	4	0.63	0.75	0.12	0	0	0	0	0	0	0	0
7/10/2024 11:45	64202	KINZ_T1	58	56	-2	1.32	0.94	-0.38	0	0	0	0	0	0	0	0
7/10/2024 11:45	54506	ENOL_T2	0	0	0	0	0	0	0.24	0.21	1	0	-1	600	0	-600
7/10/2024 11:45	24103	EHAZ_T1	0	0	0	0	0	0	0.11	-0.79	0	0	0	0	0	0
7/10/2024 11:45	60101	COCA_T1	1	0	-1	0.1	0	-0.1	-0.12	-0.07	1	1	0	1200	1200	0
7/10/2024 11:45	64204	KINZ_T1	221	175	-46	0.52	0.5	-0.02	0	0	0	0	0	0	0	0
7/10/2024 11:45	24105	EHAZ_T1	4	4	0	7.38	7	-0.38	0	0	0	0	0	0	0	0
7/10/2024 11:45	24101	EHAZ_T1	82	84	2	1.45	1.65	0.2	0	0	0	0	0	0	0	0
7/10/2024 11:45	24102	EHAZ_T1	26	27	1	0.76	1.05	0.29	0	0	0	0	0	0	0	0
7/10/2024 11:45	64201	KINZ_T1	403	423	20	0.71	0.52	-0.19	0	0	0	0	0	0	0	0
7/10/2024 11:45	64203	KINZ_T1	352	305	-47	0.76	0.8	0.04	0.87	0.93	3	3	0	2100	2100	0
7/10/2024 11:45	63804	HEMP_T1	1	1	0	8.6	8.4	-0.2	-0.58	-0.57	0	0	0	0	0	0
7/10/2024 11:45	40101	HUNT_T2	214	80	-134	0.77	0.56	-0.21	-0.54	-1.05	0	0	0	0	0	0
7/10/2024 11:46	64203	KINZ_T1	352	305	-47	0.76	0.8	0.04	0	0	0	0	0	0	0	0
7/10/2024 11:46	64202	KINZ_T1	58	56	-2	1.32	0.94	-0.38	0	0	0	0	0	0	0	0
7/10/2024 11:46	64204	KINZ_T1	221	175	-46	0.52	0.5	-0.02	0	0	0	0	0	0	0	0
7/10/2024 11:46	64201	KINZ_T1	403	423	20	0.71	0.52	-0.19	-0.6	-0.45	5	5	0	3300	3300	0
7/10/2024 11:49	40601	PIGR_T1	3	6	3	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/10/2024 11:49	40603	PIGR_T1	41	51	10	1.61	1.03	0.42	0.86	0.88	0	0	0	0	0	0
7/10/2024 11:49	12801	MICK_T1	0	0	0	0	0	0	-0.49	-0.47	1	1	0	600	600	0
7/10/2024 11:49	40602	PIGR_T1	2	2	0	1	1.8	0.8	0	0	0	0	0	0	0	0
7/10/2024 11:50	46102	MACI_T1	0	0	0	0	0	0	1.2	1.15	0	0	0	0	0	0
7/10/2024 11:50	44601	SALE_T2	0	2	2	0	0.4	0.4	0.47	0.45	1	1	0	600	600	0
7/10/2024 11:51	44601	SALE_T2	0	2	2	0	0.4	0.4	0.45	0.53	1	1	0	600	600	0
7/10/2024 11:51	17001	RIRO_T1	1	1	0	0.3	0	-0.3	0.42	0.42	0	0	0	0	0	0
7/10/2024 11:52	56501	ROCK_T2	3	3	0	3.8	2.7	-1.1	0	0	0	0	0	0	0	0
7/10/2024 11:52	56504	ROCK_T2	11	13	2	0.57	1.42	0.85	0.6	0.66	0	0	0	0	0	0
7/10/2024 11:53	42701	AUGU_T1	60	65	5	0.93	1.15	0.22	0	0	2	2	0	1800	1800	0
7/10/2024 11:53	67803	WLAN_T1	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
7/10/2024 11:53	43304	WATS_T2	55	61	6	0.57	0.58	0.01	-0.52	-0.53	1	1	0	600	600	0
7/10/2024 11:53	67804	WLAN_T1	10	10	0	1.3	1.19	-0.11	0	0	0	0	0	0	0	0
7/10/2024 11:53	60201	ATGL_T2	1	0	-1	0.4	0	-0.4	0.8	0.67	2	2	0	900	900	0
7/10/2024 11:53	43301	WATS_T2	2	6	4	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/10/2024 11:53	67801	WLAN_T1	40	46	6	1.15	0.84	-0.31	0	0	0	0	0	0	0	0
7/10/2024 11:54	61102	BERK_T5	0	1	1	0	0	0	0.71	0.7	1	1	0	300	300	0
7/10/2024 11:55	56504	ROCK_T2	11	13	2	0.57	1.42	0.85	0.6	0.66	0	0	0	0	0	0
7/10/2024 11:55	43301	WATS_T2	2	6	4	0.1	0	-0.1	0.11	0.12	1	1	0	900	900	0
7/10/2024 11:55	61102	BERK_T5	0	1	1	0	0	0	0.71	0.7	1	1	0	300	300	0
7/10/2024 11:55	43304	WATS_T2	55	61	6	0.57	0.58	0.01	-1.05	-1.06	2	2	0	1200	1200	0
7/10/2024 11:55	56501	ROCK_T2	3	3	0	3.8	2.7	-1.1	0	0	0	0	0	0	0	0
7/10/2024 11:56	56802	BENV_T2	0	0	0	0	0	0	-0.54	-0.51	0	0	0	0	0	0
7/10/2024 11:58	61102	BERK_T5	0	1	1	0	0	0	1.42	1.4	2	2	0	600	600	0
7/10/2024 11:58	56803	BENV_T1	9	9	0	1.47	1.39	-0.08	0.1	0.24	1	1	0	600	600	0
7/10/2024 11:58	56801	BENV_T1	4	6	2	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
7/10/2024 12:00	64203	KINZ_T1	303	292	-11	0.75	0.85	0.1	0	0	0	0	0	0	0	0
7/10/2024 12:00	45801	HEGI_T1	0	1	1	0	0	0	0.17	0.15	1	1	0	900	900	0
7/10/2024 12:00	64202	KINZ_T1	54	56	2	1.11	0.95	-0.16	1.13	1.18	0	0	0	0	0	0
7/10/2024 12:00	64204	KINZ_T1	111	192	81	0.51	0.62	0.11	0	0	0	0	0	0	0	0
7/10/2024 12:00	61706	ELIZ_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 12:00	61702	ELIZ_T2	0	0	0	0	0	0	-0.76	-0.7	2	2	0	1500	1500	0
7/10/2024 12:00	64201	KINZ_T1	422	348	-74	0.82	0.51	-0.31	0	0	0	0	0	0	0	0
7/10/2024 12:01	22901	HARW_T1	13	20	7	0.59	0.49	-0.1	0.17	0	1	1	0	1200	0	0
7/10/2024 12:01	63403	HONY_T2	0	0	0	0	0	0	-1.47	-0.78	1	0	-1	600	0	-600
7/10/2024 12:01	63402	HONY_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/10/2024 12:01	64904	MILL_T1	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
7/10/2024 12:01	12701	MACU_T1	6	9	3	0.37	0.28	-0.09	-1.22	-1.14	2	2	0	2400	2400	0
7/10/2024 12:01	22903	HARW_T1	15	22	7	0.71	0.69	-0.02	0	0	0	0	0	0	0	0
7/10/2024 12:01	22905	HARW_T1	8	26	18	1.2	0.28	-0.92	0	0	0	0	0	0	0	0
7/10/2024 12:02	64904	MILL_T1	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
7/10/2024 12:03	11507	FREE_T2	345	441	96	1.07	1.26	0.19	1.64	1.8	1	1	0	600	600	0
7/10/2024 12:04	65901	SAKR_T2	1	2	1	5	5.7	0.7	0.08	0.04	2	2	0	1500	1500	0
7/10/2024 12:04	65902	SAKR_T2	1	2	1	1.4	1	-0.4	0	0	0	0	0	0	0	0
7/10/2024 12:04	64701	LITI_T1	11	19	8	1.85	1.57	-0.28	0.09	0.43	1	1	0	900	900	0
7/10/2024 12:05	55408	SHER_T2	1	1	0	1.8	1.8	0	-0.32	-0.31	1	1	0	1200	1200	0
7/10/2024 12:06	43201	MVIL_T2	66	48	-18	0.91	0.51	-0.4	0	0	0	0	0	0	0	0
7/10/2024 12:06	43202	MVIL_T2	5	3	-2	0.38	0.35	-0.03	-0.27	-0.3	0	0	0	0	0	0
7/10/2024 12:07	65603	QVIL_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
7/10/2024 12:08	44301	BEAV_T2	40	49	9	0.73	0.7	-0.03	-0.23	-0.41	2	2	0	1500	1500	0
7/10/2024 12:10	60701	BREC_T1	8	12	4	1.38	1.58	0.2	0.33	0.3	2	2	0	1200	1200	0
7/10/2024 12:11	24102	EHAZ_T1	25	27	2	1.57	0.66	-0.91	0	0	0	0	0	0	0	0
7/10/2024 12:11	24104	EHAZ_T1	0	0	0	0	0	0	-1.7	-1.78	1	1	0	1200	1200	0
7/10/2024 12:11	24101	EHAZ_T1	82	61	-21	1.48	1.47	-0.01	0	0	0	0	0	0	0	0
7/10/2024 12:11	58803	COCO_T1	1	0	-1	0.2	0	-0.2	-0.39	-0.35	1	1	0	600	600	0
7/10/2024 12:11	24105	EHAZ_T1	4	4	0	7.08	6.88	-0.2	0	0	0	0	0	0	0	0
7/10/2024 12:13	22903	HARW_T1	15	22	7	0.71	0.69	-0.02	0	0	0	0	0	0	0	0
7/10/2024 12:13	22905	HARW_T1	8	26	18	1.2	0.28	-0.92	0	0	0	0	0	0	0	0
7/10/2024 12:13	60902	DONG_T2	0	2	2	0	0	0	0.89	0.84	0	0	0	0	0	0
7/10/2024 12:13	22901	HARW_T1	13	20	7	0.59	0.49	-0.1	0	0.08	1	1	0	1200	1200	0
7/10/2024 12:13	60901	DONG_T2	61	97	36	1.15	1.34	0.19	0	0	0	0	0	0	0	0
7/10/2024 12:13	61302	EARL_T1	0	0	0	0	0	0	0.07	0.04	4	4	0	3600	3600	0
7/10/2024 12:13	61304	EARL_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 12:14	60102	COCA_T1	0	0	0	0	0	0	0.07	0.13	3	3	0	2100	2100	0
7/10/2024 12:14	54505	ENOL_T2	0	0	0	0	0	0	-0.37	-0.37	1	1	0	600	600	0
7/10/2024 12:14	58803	COCO_T1	1	0	-1	0.2	0	-0.2	-0.39	-0.35	1	1	0	600	600	0
7/10/2024 12:14	63304	GREE_T1	0	0	0	0	0	0	-2.85	-2.84	1	1	0	1200	1200	0
7/10/2024 12:14	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 12:14	60101	COCA_T1	0	0	0	0	0	0	-0.08	-0.03	1	1	0	1200	1200	0
7/10/2024 12:15	64305	LINC_T1	0	1	1	0	0	0	-0.26	-0.38	0	0	0	0	0	0
7/10/2024 12:15	64301	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 12:15	64303	LINC_T1	0	0	0	0	0	0	0.31	-0.51	0	0	0	0	0	0
7/10/2024 12:16	64305	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/10/2024 12:16	64303	LINC_T1	0	0	0	0	0	0	0.63	-1.01	0	0	0	0	0	0
7/10/2024 12:16	63304	GREE_T1	0	0	0	0	0	0	-2.85	-2.84	1	1	0	1200	1200	0
7/10/2024 12:16	64301	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 12:18	12701	MACU_T1	5	12	7	0.28	0.38	0.1	-0.57	-0.56	1	1	0	1200	1200	0
7/10/2024 12:19	25501	MADI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 12:19	58803	COCO_T1	0	4	4	0	0	0	-0.39	-0.35	1	1	0	600	600	0
7/10/2024 12:19	25503	MADI_T1	0	1	1	0	0	0	-0.34	-0.27	0	0	0	0	0	0
7/10/2024 12:19	10903	COOP_T2	0	0	0	0	0	0	0.46	0.48	1	1	0	600	600	0
7/10/2024 12:19	10901	COOP_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/10/2024 12:19	12701	MACU_T1	5	12	7	0.28	0.38	0.1	-0.57	-0.56	1	1	0	1200	1200	0
7/10/2024 12:20	47101	MARL_T1	122	166	44	1.04	1.11	0.07	-0.45	-0.39	1	1	0	600	600	0
7/10/2024 12:20	47104	MARL_T1	0	19	19	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 12:21	47402	PENS_T1	0	10	10	0	0.83	0.83	0	0	0	0	0	0	0	0
7/10/2024 12:21	47403	PENS_T1	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
7/10/2024 12:21	10903	COOP_T2	0	0	0	0	0	0	0.48	0.51	1	1	0	600	600	0
7/10/2024 12:21	47104	MARL_T1	0	19	19	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 12:21	47401	PENS_T1	7	32	25	0.81	0.77	-0.04	0.8	0.7	0	0	0	0	0	0
7/10/2024 12:21	10901	COOP_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/10/2024 12:21	47101	MARL_T1	122	166	44	1.04	1.11	0.07	-0.45	-0.39	1	1	0	600	600	0
7/10/2024 12:22	59101	WALK_T2	4	32	28	0.78	0.61	-0.17	0.83	0.86	4	4	0	2400	2400	0
7/10/2024 12:22	44203	POIN_T2	8	9	1	1.61	0.6	-1.01	-0.17	-0.48	3	3	0	3300	3300	0
7/10/2024 12:23	41902	REED_T1	21	45	24	0.41	0.54	0.13	0.05	0.06	1	1	0	900	900	0
7/10/2024 12:23	41903	REED_T1	4	7	3	1.4	1.18	-0.22	0	0	0	0	0	0	0	0
7/10/2024 12:23	41901	REED_T1	3	3	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
7/10/2024 12:24	59101	WALK_T2	4	32	28	0.78	0.61	-0.17	0.83	0.86	4	4	0	2400	2400	0
7/10/2024 12:27	61102	BERK_T5	0	0	0	0	0	0	0.67	0.67	1	1	0	300	300	0
7/10/2024 12:27	61101	BERK_T5	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 12:29	29401	BELT_T1	4	2	-2	0.35	0.1	-0.25	0	0	1	1	0	900	900	0
7/10/2024 12:29	29402	BELT_T1	2	5	3	6.1	7	0.9	0	0	0	0	0	0	0	0
7/10/2024 12:30	64301	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 12:30	29402	BELT_T1	3	3	0	2.4	6.8	4.4	0	0	0	0	0	0	0	0
7/10/2024 12:30	64305	LINC_T1	0	1	1	0	0.5	0.5	-0.38	-0.38	0	0	0	0	0	0
7/10/2024 12:30	29401	BELT_T1	1	8	7	0.1	0.3	0.2	0	0	1	1	0	900	900	0
7/10/2024 12:31	64301	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 12:31	67904	WNHO_T1	0	0	0	0	0	0	-1.55	-1.56	2	2	0	2100	2100	0
7/10/2024 12:31	64903	MILL_T2	23	14	-9	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
7/10/2024 12:31	64305	LINC_T1	0	1	1	0	0.5	0.5	-0.38	-0.38	0	0	0	0	0	0
7/10/2024 12:31	64902	MILL_T2	8	5	-3	0.51	0	-0.51	-0.13	-0.11	1	1	0	900	900	0
7/10/2024 12:31	40101	HUNT_T2	78	368	290	0.54	0.54	0	-0.99	-1	0	0	0	0	0	0
7/10/2024 12:31	65903	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 12:31	65902	SAKR_T2	1	1	0	2.3	1.9	-0.4	0	0	0	0	0	0	0	0
7/10/2024 12:31	65901	SAKR_T2	2	4	2	2.55	1.63	-0.92	0.2	0.09	2	2	0	1500	1500	0
7/10/2024 12:32	12703	MACU_T2	0	3	3	0	0	0	-0.07	-0.12	0	0	0	0	0	0
7/10/2024 12:33	12703	MACU_T2	0	3	3	0	0	0	-0.07	-0.12	0	0	0	0	0	0
7/10/2024 12:34	13503	MCMI_T2	1	3	2	0.2	0.33	0.13	-0.51	-0.49	0	0	0	0	0	0
7/10/2024 12:34	67903	WNHO_T1	0	0	0	0	0	0	1.56	1.53	1	1	0	1200	1200	0
7/10/2024 12:35	65902	SAKR_T2	1	1	0	2.3	1.9	-0.4	0	0	0	0	0	0	0	0
7/10/2024 12:35	66701	STRA_T1	6	12	6	0.83	0.6	-0.23	1.14	1.18	1	1	0	600	600	0
7/10/2024 12:35	65901	SAKR_T2	2	4	2	2.55	1.63	-0.92	0.2	0.09	2	2	0	1500	1500	0
7/10/2024 12:35	65903	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 12:35	66703	STRA_T1	44	87	43	0.56	0.59	0.03	0	0	0	0	0	0	0	0
7/10/2024 12:36	65803	RTWN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 12:36	65802	RTWN_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
7/10/2024 12:37	66703	STRA_T1	44	87	43	0.56	0.59	0.03	0	0	0	0	0	0	0	0
7/10/2024 12:37	64101	REFR_T1	11	14	3	0.94	0.72	-0.22	-0.3	-0.3	0	0	0	0	0	0
7/10/2024 12:37	66701	STRA_T1	6	12	6	0.83	0.6	-0.23	2.36	2.29	2	2	0	1200	1200	0
7/10/2024 12:39	66703	STRA_T1	44	87	43	0.56	0.59	0.03	0	0	0	0	0	0	0	0
7/10/2024 12:39	66701	STRA_T1	6	12	6	0.83	0.6	-0.23	1.18	1.14	1	1	0	600	600	0
7/10/2024 12:40	59101	WALK_T2	8	34	26	0.63	0.58	-0.05	0.86	1.03	4	4	0	2400	2400	0
7/10/2024 12:40	20403	ASHF_T2	1	53	52	0.3	0.41	0.11	1.48	1.3	0	0	0	0	0	0
7/10/2024 12:40	20402	ASHF_T2	12	44	32	1.32	0.97	-0.35	0	0	0	0	0	0	0	0
7/10/2024 12:40	59102	WALK_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 12:40	20401	ASHF_T2	7	8	1	1.19	0.85	-0.34	0	0	0	0	0	0	0	0
7/10/2024 12:41	60701	BREC_T1	8	21	13	1.6	0.87	-0.73	0.39	0.34	2	2	0	1200	1200	0
7/10/2024 12:43	41303	FISH_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/10/2024 12:43	42201	SHEN_T2	0	0	0	0	0	0	0.11	0.11	1	1	0	600	600	0
7/10/2024 12:43	41301	FISH_T1	3	3	0	1.17	1.57	0.4	-0.38	-0.4	0	0	0	0	0	0
7/10/2024 12:44	41602	CLEV_T1	82	80	-2	1.46	1.46	0	0	0	1	1	0	600	600	0
7/10/2024 12:46	47101	MARL_T1	154	236	82	1	1.05	0.05	-0.4	-0.41	1	1	0	600	600	0
7/10/2024 12:46	47104	MARL_T1	19	23	4	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
7/10/2024 12:47	65501	MOJO_T1	0	0	0	0	0	0	-0.31	-0.29	1	1	0	900	900	0
7/10/2024 12:47	47104	MARL_T1	19	23	4	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
7/10/2024 12:47	47101	MARL_T1	154	236	82	1	1.05	0.05	-0.8	-0.81	2	2	0	1200	1200	0
7/10/2024 12:48	52002	LING_T2	17	13	-4	0.34	0.24	-0.1	0	0	0	0	0	0	0	0
7/10/2024 12:48	52006	LING_T2	5	8	3	0.64	0.38	-0.26	0	0	0	0	0	0	0	0
7/10/2024 12:48	58706	ROSE_T2	1	12	11	3.1	0.88	-2.22	0	0	0	0	0	0	0	0
7/10/2024 12:48	58702	ROSE_T2	3	7	4	0.13	0.38	0.25	0	0	0	0	0	0	0	0
7/10/2024 12:48	64203	KINZ_T1	480	688	208	0.78	0.81	0.03	0	0	0	0	0	0	0	0
7/10/2024 12:48	58705	ROSE_T2	3	13	10	0.17	0.41	0.24	0	0	0	0	0	0	0	0
7/10/2024 12:48	58701	ROSE_T2	9	18	9	0.26	0.36	0.1	0	0	0	0	0	0	0	0
7/10/2024 12:48	64204	KINZ_T1	241	422	181	0.56	0.61	0.05	0	0	0	0	0	0	0	0
7/10/2024 12:48	52004	LING_T2	2	2	0	0.4	0.2	-0.2	0.61	0.61	0	0	0	0	0	0
7/10/2024 12:48	58703	ROSE_T2	0	0	0	0	0	0	-0.88	-0.96	0	0	0	0	0	0
7/10/2024 12:48	64201	KINZ_T1	421	471	50	0.8	1.18	0.38	0	0	0	0	0	0	0	0
7/10/2024 12:48	64202	KINZ_T1	58	67	9	1.25	1.2	-0.05	1.08	1.06	0	0	0	0	0	0
7/10/2024 12:49	58202	NEWV_T1	0	35	35	0	0	0	0.22	0.18	0	0	0	0	0	0
7/10/2024 12:49	58201	NEWV_T1	11	15	4	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/10/2024 12:49	13503	MCMI_T2	3	3	0	0.17	0.33	0.16	-0.49	-0.46	0	0	0	0	0	0
7/10/2024 12:50	47402	PENS_T1	10	6	-4	0.53	0.7	0.17	0	0	0	0	0	0	0	0
7/10/2024 12:50	47104	MARL_T1	19	23	4	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
7/10/2024 12:50	47401	PENS_T1	28	29	1	0.8	0.75	-0.05	0.7	0.77	0	0	0	0	0	0
7/10/2024 12:50	27605	PIRI_T2	1504	1657	153	1.56	1.49	-0.07	1.93	1.97	0	0	0	0	0	0
7/10/2024 12:50	47101	MARL_T1	154	236	82	1	1.05	0.05	-0.4	-0.41	1	1	0	600	600	0
7/10/2024 12:50	27603	PIRI_T2	4	6	2	1.25	0.65	-0.6	0	0	0	0	0	0	0	0
7/10/2024 12:50	47403	PENS_T1	1	1	0	1.9	2.1	0.2	0	0	0	0	0	0	0	0
7/10/2024 12:51	47403	PENS_T1	1	1	0	1.9	2.1	0.2	0	0	0	0	0	0	0	0
7/10/2024 12:51	47104	MARL_T1	19	23	4	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
7/10/2024 12:51	47402	PENS_T1	10	6	-4	0.53	0.7	0.17	0	0	0	0	0	0	0	0
7/10/2024 12:51	47401	PENS_T1	28	29	1	0.8	0.75	-0.05	0.77	0.79	0	0	0	0	0	0
7/10/2024 12:51	66701	STRA_T1	4	15	11	0.48	0.51	0.03	0	0	0	0	0	0	0	0
7/10/2024 12:51	66703	STRA_T1	84	140	56	0.64	0.63	-0.01	0.35	0.43	0	0	0	0	0	0
7/10/2024 12:51	47101	MARL_T1	154	236	82	1	1.05	0.05	-0.4	-0.41	1	1	0	600	600	0
7/10/2024 12:52	60201	ATGL_T2	0	1	1	0	0	0	0.86	0.85	2	2	0	900	900	0
7/10/2024 12:52	47402	PENS_T1	10	6	-4	0.53	0.7	0.17	0	0	0	0	0	0	0	0
7/10/2024 12:52	66703	STRA_T1	84	140	56	0.64	0.63	-0.01	0.35	0.43	0	0	0	0	0	0
7/10/2024 12:52	47401	PENS_T1	28	29	1	0.8	0.75	-0.05	0.77	0.79	0	0	0	0	0	0
7/10/2024 12:52	66701	STRA_T1	4	15	11	0.48	0.51	0.03	0	0	0	0	0	0	0	0
7/10/2024 12:52	47403	PENS_T1	1	1	0	1.9	2.1	0.2	0	0	0	0	0	0	0	0
7/10/2024 12:53	13503	MCMI_T2	3	3	0	0.17	0.33	0.16	-0.46	-0.45	0	0	0	0	0	0
7/10/2024 12:54	59101	WALK_T2	32	20	-12	0.71	0.5	-0.21	1.03	0.42	4	4	0	2400	2400	0
7/10/2024 12:54	14403	SSLA_T1	6	13	7	0.72	1.08	0.36	1.38	1.41	1	1	0	600	600	0
7/10/2024 12:54	59102	WALK_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 12:54	14404	SSLA_T1	18	22	4	0.81	1.28	0.47	0	0	0	0	0	0	0	0
7/10/2024 12:55	66701	STRA_T1	4	15	11	0.48	0.51	0.03	1.14	1.2	1	1	0	600	600	0
7/10/2024 12:55	67605	WARW_T1	0	1	1	0	0.6	0.6	-0.61	-0.61	0	0	0	0	0	0
7/10/2024 12:55	66703	STRA_T1	84	140	56	0.64	0.63	-0.01	0	0	0	0	0	0	0	0
7/10/2024 12:56	49804	UNIV_T1	1	3	2	0.3	0.17	-0.13	1.27	1.23	0	0	0	0	0	0
7/10/2024 12:57	41301	FISH_T1	3	3	0	1.57	0.9	-0.67	-0.2	-0.17	0	0	0	0	0	0
7/10/2024 12:57	41303	FISH_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/10/2024 12:58	20601	GRWO_T2	97	133	36	0.69	0.84	0.15	0	0	0	0	0	0	0	0
7/10/2024 12:58	41303	FISH_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/10/2024 12:58	41301	FISH_T1	3	3	0	1.57	0.9	-0.67	-0.2	-0.17	0	0	0	0	0	0
7/10/2024 12:58	15701	TANN_T1	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
7/10/2024 12:58	15704	TANN_T1	6	45	39	0.48	0.37	-0.11	0	0	0	0	0	0	0	0
7/10/2024 12:58	20603	GRWO_T2	0	0	0	0	0	0	-0.03	-0.05	1	1	0	900	900	0
7/10/2024 12:59	24701	FLND_T2	0	9	9	0	0	0	0.73	0.74	0	0	0	0	0	0
7/10/2024 12:59	56802	BENV_T2	0	0	0	0	0	0	-0.41	-0.47	0	0	0	0	0	0
7/10/2024 12:59	24703	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 13:00	14201	EALL_T1	1	11	10	0.1	0.26	0.16	-0.02	-0.08	0	0	0	0	0	0
7/10/2024 13:01	58706	ROSE_T2	7	19	12	0.71	0.8	0.09	0	0	0	0	0	0	0	0
7/10/2024 13:01	47002	HUGH_T2	1	3	2	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/10/2024 13:01	58705	ROSE_T2	13	14	1	0.89	0.47	-0.42	0	0	0	0	0	0	0	0
7/10/2024 13:01	52001	LING_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 13:01	52003	LING_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
7/10/2024 13:01	53901	HALI_T2	0	81	81	0	0	0	-0.67	-0.73	0	0	0	0	0	0
7/10/2024 13:01	58701	ROSE_T2	11	35	24	0.43	0.51	0.08	-1.28	-1.22	1	1	0	600	600	0
7/10/2024 13:01	58702	ROSE_T2	6	14	8	0.87	0.34	-0.53	0	0	0	0	0	0	0	0
7/10/2024 13:01	47001	HUGH_T2	4	6	2	5.08	5.08	0	-0.72	-0.62	1	1	0	900	900	0
7/10/2024 13:01	53902	HALI_T2	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
7/10/2024 13:02	47104	MARL_T1	22	24	2	0.7	0.39	-0.31	0	0	0	0	0	0	0	0
7/10/2024 13:02	25402	LAHA_T2	1	1	0	0.1	2.1	2	0.24	-0.17	0	0	0	0	0	0
7/10/2024 13:02	47101	MARL_T1	197	288	91	1.08	1.07	-0.01	-0.41	-0.37	1	1	0	600	600	0
7/10/2024 13:02	26402	INOR_T1	172	182	10	1.37	1.8	0.43	0	0	0	0	0	0	0	0
7/10/2024 13:02	26401	INOR_T1	101	144	43	0.69	0.82	0.13	1.63	1.81	0	0	0	0	0	0
7/10/2024 13:03	55001	NEWP_T1	52	67	15	0.91	1.03	0.12	0.06	0.12	0	0	0	0	0	0
7/10/2024 13:03	13105	NHAM_T2	39	72	33	0.45	0.52	0.07	-1.38	-1.44	1	1	0	1200	1200	0
7/10/2024 13:03	55002	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 13:03	13103	NHAM_T2	8	9	1	0.64	0.5	-0.14	0	0	0	0	0	0	0	0
7/10/2024 13:04	51204	MTON_T2	4	4	0	0.83	0.43	-0.4	0	0	0	0	0	0	0	0
7/10/2024 13:04	52006	LING_T2	8	8	0	0.48	0.38	-0.1	0	0	0	0	0	0	0	0
7/10/2024 13:04	51202	MTON_T2	0	0	0	0	0	0	-0.49	-0.48	1	1	0	1200	1200	0
7/10/2024 13:04	52002	LING_T2	9	16	7	0.29	0.21	-0.08	0	0	0	0	0	0	0	0
7/10/2024 13:04	52004	LING_T2	2	2	0	0.45	0.3	-0.15	0.61	0.65	0	0	0	0	0	0
7/10/2024 13:06	42902	MIDD_T2	16	39	23	0.58	0.75	0.17	0	0	0	0	0	0	0	0
7/10/2024 13:06	42903	MIDD_T2	0	2	2	0	0.6	0.6	1.26	1.01	1	1	0	1200	1200	0
7/10/2024 13:06	46101	MACI_T2	0	0	0	0	0	0	-0.28	-0.29	2	2	0	2400	2400	0
7/10/2024 13:06	42901	MIDD_T2	49	53	4	0.87	0.8	-0.07	0	0	0	0	0	0	0	0
7/10/2024 13:06	55001	NEWP_T1	52	67	15	0.91	1.03	0.12	0.06	0.12	0	0	0	0	0	0
7/10/2024 13:06	55002	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 13:08	27603	PIRI_T2	4	7	3	0.93	0.68	-0.25	0	0	0	0	0	0	0	0
7/10/2024 13:08	27605	PIRI_T2	1641	1612	-29	1.55	1.5	-0.05	2	1.97	0	0	0	0	0	0
7/10/2024 13:08	47401	PENS_T1	20	39	19	0.74	0.82	0.08	0.79	0.84	0	0	0	0	0	0
7/10/2024 13:08	47402	PENS_T1	5	7	2	0.58	0.55	-0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/10/2024 13:08	47403	PENS_T1	1	1	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0
7/10/2024 13:09	14403	SSLA_T1	12	11	-1	0.62	1.26	0.64	1.41	1.39	1	1	0	600	600	0
7/10/2024 13:09	43402	BENT_T1	3	3	0	0.7	0	-0.7	-1.76	-1.8	4	4	0	3000	3000	0
7/10/2024 13:09	43401	BENT_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/10/2024 13:09	14404	SSLA_T1	21	29	8	1.26	1.44	0.18	0	0	0	0	0	0	0	0
7/10/2024 13:11	67804	WLAN_T1	10	10	0	2.32	2.72	0.4	0	0	0	0	0	0	0	0
7/10/2024 13:11	67801	WLAN_T1	54	72	18	0.9	0.85	-0.05	-0.86	-0.81	0	0	0	0	0	0
7/10/2024 13:12	56803	BENV_T1	12	12	0	1.82	1.58	-0.24	0.19	0.19	1	1	0	600	600	0
7/10/2024 13:12	56801	BENV_T1	4	4	0	0.78	0.6	-0.18	0	0	0	0	0	0	0	0
7/10/2024 13:12	43402	BENT_T1	3	3	0	0.7	0	-0.7	-0.88	-0.9	2	2	0	1500	1500	0
7/10/2024 13:12	43401	BENT_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/10/2024 13:15	41302	FISH_T2	19	19	0	4.37	3.77	-0.6	0	0	0	0	0	0	0	0
7/10/2024 13:15	41304	FISH_T2	9	14	5	0.44	0.38	-0.06	0.22	0.24	0	0	0	0	0	0
7/10/2024 13:15	41306	FISH_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/10/2024 13:16	41302	FISH_T2	19	19	0	4.37	3.77	-0.6	0	0	0	0	0	0	0	0
7/10/2024 13:16	41304	FISH_T2	9	14	5	0.44	0.38	-0.06	0.22	0.24	0	0	0	0	0	0
7/10/2024 13:16	41306	FISH_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/10/2024 13:16	67605	WARW_T1	1	2	1	0.6	0.55	-0.05	-0.61	-0.55	0	0	0	0	0	0
7/10/2024 13:17	67605	WARW_T1	1	2	1	0.6	0.55	-0.05	-0.61	-0.55	0	0	0	0	0	0
7/10/2024 13:18	65902	SAKR_T2	1	1	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
7/10/2024 13:18	65901	SAKR_T2	6	12	6	0.95	0.75	-0.2	0.23	0.21	2	2	0	1500	1500	0
7/10/2024 13:18	52004	LING_T2	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
7/10/2024 13:18	52002	LING_T2	13	15	2	0.23	0.24	0.01	-0.25	-0.27	1	1	0	900	900	0
7/10/2024 13:18	65903	SAKR_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/10/2024 13:18	52006	LING_T2	4	9	5	0.38	0.76	0.38	0	0	0	0	0	0	0	0
7/10/2024 13:19	59003	MIFF_T1	118	238	120	0.64	0.69	0.05	-0.84	-0.66	0	0	0	0	0	0
7/10/2024 13:19	12802	MICK_T1	0	0	0	0	0	0	-0.03	0.01	0	0	0	0	0	0
7/10/2024 13:19	47104	MARL_T1	11	26	15	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
7/10/2024 13:19	65902	SAKR_T2	1	1	0	2.4	2.6	0.2	-0.58	-0.48	2	2	0	1200	1200	0
7/10/2024 13:19	59002	MIFF_T1	2	8	6	1	0.1	-0.9	0	0	0	0	0	0	0	0
7/10/2024 13:19	65901	SAKR_T2	6	12	6	0.95	0.75	-0.2	0	0	0	0	0	0	0	0
7/10/2024 13:19	65903	SAKR_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/10/2024 13:19	47101	MARL_T1	222	353	131	1.15	1.07	-0.08	-0.73	-0.6	2	2	0	1200	1200	0
7/10/2024 13:20	48303	ORWI_T2	4	4	0	0.58	0.8	0.22	0	0	0	0	0	0	0	0
7/10/2024 13:20	13503	MCMI_T2	1	0	-1	0.2	0	-0.2	-0.45	-0.44	0	0	0	0	0	0
7/10/2024 13:20	12701	MACU_T1	9	24	15	1.1	0.84	-0.26	-0.47	-0.46	1	1	0	1200	1200	0
7/10/2024 13:20	12704	MACU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/10/2024 13:20	48302	ORWI_T2	87	166	79	0.5	0.58	0.08	0.23	0.21	0	0	0	0	0	0
7/10/2024 13:22	58402	MORO_T1	306	334	28	2.28	4.41	2.13	0	0	2	2	0	750	750	0
7/10/2024 13:22	58401	MORO_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/10/2024 13:22	67703	WERN_T2	7	22	15	0.34	0.66	0.32	-0.01	-0.01	1	1	0	900	900	0
7/10/2024 13:23	49803	UNIV_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
7/10/2024 13:23	60301	TWVA_T2	12	8	-4	0.54	0.65	0.11	-1.57	-1.53	2	2	0	1800	1800	0
7/10/2024 13:23	60305	TWVA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/10/2024 13:23	49804	UNIV_T1	3	5	2	0.2	0.37	0.17	1.25	1.26	0	0	0	0	0	0
7/10/2024 13:23	67605	WARW_T1	1	2	1	0.6	0.55	-0.05	-0.55	-0.38	0	0	0	0	0	0
7/10/2024 13:24	67605	WARW_T1	1	2	1	0.6	0.55	-0.05	-0.55	-0.38	0	0	0	0	0	0
7/10/2024 13:25	67605	WARW_T1	1	2	1	0.6	0.55	-0.05	-0.55	-0.38	0	0	0	0	0	0
7/10/2024 13:26	61303	EARL_T1	0	0	0	0	0	0	0.74	0.68	0	0	0	0	0	0
7/10/2024 13:26	61304	EARL_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 13:27	61102	BERK_T5	0	0	0	0	0	0	0.73	0.71	1	1	0	300	300	0
7/10/2024 13:27	61101	BERK_T5	5	9	4	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
7/10/2024 13:28	63802	HEMP_T1	0	1	1	0	0	0	0.33	0.31	0	0	0	0	0	0
7/10/2024 13:28	63804	HEMP_T1	3	13	10	3.17	3.07	-0.1	0	0	0	0	0	0	0	0
7/10/2024 13:30	20401	ASHF_T2	6	12	6	0.98	1.14	0.16	0	0	0	0	0	0	0	0
7/10/2024 13:30	20403	ASHF_T2	45	82	37	0.52	0.5	-0.02	1.25	1.15	0	0	0	0	0	0
7/10/2024 13:30	61304	EARL_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 13:30	61303	EARL_T1	0	0	0	0	0	0	0.74	0.68	0	0	0	0	0	0
7/10/2024 13:30	20402	ASHF_T2	42	72	30	0.96	1.01	0.05	0	0	0	0	0	0	0	0
7/10/2024 13:31	61304	EARL_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 13:31	41302	FISH_T2	19	26	7	4.92	2.92	-2	0	0	0	0	0	0	0	0
7/10/2024 13:31	41306	FISH_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
7/10/2024 13:31	29401	BELT_T1	15	25	10	0.55	0.41	-0.14	0	0	1	1	0	900	900	0
7/10/2024 13:31	29402	BELT_T1	1	1	0	9.5	9.3	-0.2	0	0	0	0	0	0	0	0
7/10/2024 13:31	61303	EARL_T1	0	0	0	0	0	0	0.74	0.68	0	0	0	0	0	0
7/10/2024 13:31	41304	FISH_T2	7	14	7	0.38	0.48	0.1	0.24	0.29	0	0	0	0	0	0
7/10/2024 13:32	47101	MARL_T1	281	402	121	1.06	1.11	0.05	-0.9	-1.18	3	3	0	1800	1800	0
7/10/2024 13:32	47104	MARL_T1	23	23	0	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
7/10/2024 13:32	55001	NEWP_T1	63	74	11	1.08	1.11	0.03	0.1	0.06	0	0	0	0	0	0
7/10/2024 13:33	64301	LINC_T1	2	1	-1	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
7/10/2024 13:33	65901	SAKR_T2	11	21	10	0.64	0.87	0.23	0.21	0.18	2	2	0	1500	1500	0
7/10/2024 13:33	64305	LINC_T1	1	1	0	1.9	1.8	-0.1	-0.16	-0.08	0	0	0	0	0	0
7/10/2024 13:33	65903	SAKR_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
7/10/2024 13:33	65902	SAKR_T2	1	2	1	2.6	2.6	0	0	0	0	0	0	0	0	0
7/10/2024 13:33	11505	FREE_T1	24	28	4	0.71	0.71	0	0	0	0	0	0	0	0	0
7/10/2024 13:33	64302	LINC_T2	15	22	7	0.53	0.44	-0.09	1.19	1.21	0	0	0	0	0	0
7/10/2024 13:33	11502	FREE_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/10/2024 13:33	13503	MCMI_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
7/10/2024 13:33	63403	HONY_T2	2	1	-1	0.65	1	0.35	-0.67	-0.69	0	0	0	0	0	0
7/10/2024 13:33	11504	FREE_T1	6	25	19	0.43	0.63	0.2	-0.95	-1.1	2	2	0	2100	2100	0
7/10/2024 13:35	13503	MCMI_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
7/10/2024 13:35	44203	POIN_T2	7	22	15	0.44	0.8	0.36	-0.33	-0.49	3	3	0	3300	3300	0
7/10/2024 13:36	13103	NHAM_T2	6	11	5	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/10/2024 13:36	13102	NHAM_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 13:36	13105	NHAM_T2	68	111	43	0.61	0.63	0.02	-1.34	-1.35	1	1	0	1200	1200	0
7/10/2024 13:36	67605	WARW_T1	2	1	-1	0.55	0.6	0.05	-0.55	-0.38	0	0	0	0	0	0
7/10/2024 13:37	65603	QVIL_T2	0	0	0	0	0	0	0.05	-0.15	0	0	0	0	0	0
7/10/2024 13:37	65604	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 13:37	65601	QVIL_T2	2	17	15	0.3	0.19	-0.11	0	0	0	0	0	0	0	0
7/10/2024 13:37	67605	WARW_T1	2	1	-1	0.55	0.6	0.05	-0.38	-0.47	0	0	0	0	0	0
7/10/2024 13:40	60701	BREC_T1	23	22	-1	0.8	0.93	0.13	0.86	0.75	4	4	0	2400	2400	0
7/10/2024 13:42	60701	BREC_T1	23	22	-1	0.8	0.93	0.13	0.86	0.75	4	4	0	2400	2400	0
7/10/2024 13:43	60701	BREC_T1	23	22	-1	0.8	0.93	0.13	0.43	0.37	2	2	0	1200	1200	0
7/10/2024 13:44	63801	HEMP_T1	0	0	0	0	0	0	-0.6	-0.72	3	3	0	2700	2700	0
7/10/2024 13:44	63802	HEMP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/10/2024 13:44	63804	HEMP_T1	3	13	10	3.13	1.38	-1.75	-0.5	-0.51	0	0	0	0	0	0
7/10/2024 13:45	64704	LITI_T1	0	0	0	0	0	0	1.1	0.94	1	1	0	600	600	0
7/10/2024 13:45	64701	LITI_T1	24	24	0	1.9	1.78	-0.12	0	0	0	0	0	0	0	0
7/10/2024 13:46	11802	FRAN_T1	0	7	7	0	0.23	0.23	0	0	0	0	0	0	0	0
7/10/2024 13:46	11805	FRAN_T1	2	10	8	0.3	0.25	-0.05	-1.75	-1.82	1	1	0	1200	1200	0
7/10/2024 13:46	41303	FISH_T1	1	1	0	1.4	1.5	0.1	-0.64	-0.58	0	0	0	0	0	0
7/10/2024 13:46	53501	EVIL_T2	149	133	-16	0.55	0.44	-0.11	-0.68	-0.71	4	4	0	2300	2300	0
7/10/2024 13:46	41301	FISH_T1	3	3	0	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
7/10/2024 13:46	11804	FRAN_T1	249	252	3	2.51	2.35	-0.16	0	0	0	0	0	0	0	0
7/10/2024 13:46	53502	EVIL_T2	12	12	0	0.67	0.62	-0.05	0	0	0	0	0	0	0	0
7/10/2024 13:47	63801	HEMP_T1	0	0	0	0	0	0	-0.4	-0.48	2	2	0	1800	1800	0
7/10/2024 13:47	63804	HEMP_T1	13	10	-3	1.14	1.8	0.66	0	0	0	0	0	0	0	0
7/10/2024 13:47	12704	MACU_T1	1	5	4	0.1	0.28	0.18	0	0	0	0	0	0	0	0
7/10/2024 13:47	12701	MACU_T1	19	20	1	0.78	0.69	-0.09	-0.51	-0.48	1	1	0	1200	1200	0
7/10/2024 13:48	55001	NEWP_T1	60	76	16	1.09	1.14	0.05	0.06	0.14	0	0	0	0	0	0
7/10/2024 13:49	58705	ROSE_T2	12	24	12	0.56	0.41	-0.15	0	0	0	0	0	0	0	0
7/10/2024 13:49	40603	PIGR_T1	66	79	13	1.29	1.26	-0.03	0	0	0	0	0	0	0	0
7/10/2024 13:49	44202	POIN_T2	0	0	0	0	0	0	-0.68	-0.62	2	2	0	1800	1800	0
7/10/2024 13:49	40602	PIGR_T1	32	32	0	0.6	0.6	0	0	0	0	0	0	0	0	0
7/10/2024 13:49	58706	ROSE_T2	22	22	0	0.55	0.61	0.06	0	0	0	0	0	0	0	0
7/10/2024 13:49	58701	ROSE_T2	41	48	7	0.51	0.41	-0.1	-1.14	-1.18	1	1	0	600	600	0
7/10/2024 13:49	44203	POIN_T2	7	13	6	0.8	0.61	-0.19	0	0	0	0	0	0	0	0
7/10/2024 13:49	40601	PIGR_T1	20	29	9	0.58	0.74	0.16	0.01	-0.01	0	0	0	0	0	0
7/10/2024 13:49	58702	ROSE_T2	16	14	-2	1.27	0.74	-0.53	0	0	0	0	0	0	0	0
7/10/2024 13:50	53802	MBRG_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
7/10/2024 13:50	53803	MBRG_T2	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
7/10/2024 13:51	57403	SPAN_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 13:51	66701	STRA_T1	19	19	0	0.58	0.74	0.16	0	0	0	0	0	0	0	0
7/10/2024 13:51	57401	SPAN_T1	13	14	1	1.19	1.67	0.48	-1.28	-1.26	2	2	0	1500	1500	0
7/10/2024 13:51	66703	STRA_T1	189	212	23	0.76	0.73	-0.03	0.46	0.51	0	0	0	0	0	0
7/10/2024 13:52	16406	MOPO_T1	0	0	0	0	0	0	-0.67	-0.69	2	2	0	2100	2100	0
7/10/2024 13:52	44202	POIN_T2	0	0	0	0	0	0	-0.62	-0.47	2	2	0	1800	1800	0
7/10/2024 13:52	44203	POIN_T2	7	13	6	0.8	0.61	-0.19	0	0	0	0	0	0	0	0
7/10/2024 13:52	16402	MOPO_T1	5	13	8	1.24	0.65	-0.59	0	0	0	0	0	0	0	0
7/10/2024 13:53	29402	BELT_T1	1	1	0	9.3	9	-0.3	0	0	0	0	0	0	0	0
7/10/2024 13:53	57403	SPAN_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 13:53	29401	BELT_T1	16	25	9	0.46	0.57	0.11	0	0	1	1	0	900	900	0
7/10/2024 13:53	57401	SPAN_T1	13	14	1	1.19	1.67	0.48	-2.53	-2.09	4	4	0	3000	3000	0
7/10/2024 13:54	67605	WARW_T1	1	1	0	0.2	0.6	0.4	-0.47	-0.5	0	0	0	0	0	0
7/10/2024 13:54	60201	ATGL_T2	3	3	0	0.6	0.4	-0.2	0.86	0.86	2	2	0	900	900	0
7/10/2024 13:54	66701	STRA_T1	19	19	0	0.58	0.74	0.16	0	0	0	0	0	0	0	0
7/10/2024 13:54	66703	STRA_T1	189	212	23	0.76	0.73	-0.03	0.46	0.51	0	0	0	0	0	0
7/10/2024 13:55	47104	MARL_T1	22	23	1	0.5	0.32	-0.18	0	0	0	0	0	0	0	0
7/10/2024 13:55	57401	SPAN_T1	13	14	1	1.19	1.67	0.48	-1.26	-1.05	2	2	0	1500	1500	0
7/10/2024 13:55	47101	MARL_T1	345	499	154	1.16	1.01	-0.15	-0.33	-0.37	1	1	0	600	600	0
7/10/2024 13:55	57403	SPAN_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 13:56	61102	BERK_T5	0	0	0	0	0	0	0.68	0.65	1	1	0	300	300	0
7/10/2024 13:56	61101	BERK_T5	9	11	2	0.94	0.88	-0.06	0	0	0	0	0	0	0	0
7/10/2024 13:56	67605	WARW_T1	1	1	0	0.2	0.6	0.4	-0.94	-1	0	0	0	0	0	0
7/10/2024 13:56	67605	WARW_T1	1	1	0	0.2	0.6	0.4	-0.94	-0.5	0	0	0	0	0	0
7/10/2024 13:56	67605	WARW_T1	1	1	0	0.2	0.6	0.4	-0.47	-1	0	0	0	0	0	0
7/10/2024 13:56	67605	WARW_T1	1	1	0	0.2	0.6	0.4	-0.47	-0.5	0	0	0	0	0	0
7/10/2024 13:57	67605	WARW_T1	1	1	0	0.2	0.6	0.4	-0.47	-0.5	0	0	0	0	0	0
7/10/2024 13:58	57401	SPAN_T1	13	14	1	1.19	1.67	0.48	-1.26	-1.05	2	2	0	1500	1500	0
7/10/2024 13:58	57403	SPAN_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 13:59	26402	INOR_T1	179	188	9	2.09	2.07	-0.02	0	0	0	0	0	0	0	0
7/10/2024 13:59	26401	INOR_T1	134	184	50	0.9	1.02	0.12	1.81	1.92	0	0	0	0	0	0
7/10/2024 14:00	25402	LAHA_T2	0	0	0	0	0	0	0.25	0.21	0	0	0	0	0	0
7/10/2024 14:01	63501	HEID_TBK1-2	0	0	0	0	0	0	0.78	0.7	1	1	0	900	900	0
7/10/2024 14:01	11901	ETEX_T2	0	0	0	0	0	0	0.77	0.81	0	0	0	0	0	0
7/10/2024 14:02	47901	HRDG_T1	0	0	0	0	0	0	1.68	1.7	1	1	0	1200	1200	0
7/10/2024 14:03	28805	LAKE_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
7/10/2024 14:04	66504	SMAN_T2	15	19	4	0.93	0.57	-0.36	0	0	0	0	0	0	0	0
7/10/2024 14:04	47001	HUGH_T2	3	3	0	5.63	6.57	0.94	-0.55	-0.55	1	1	0	900	900	0
7/10/2024 14:04	66503	SMAN_T2	16	10	-6	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
7/10/2024 14:04	66505	SMAN_T2	301	375	74	0.6	0.86	0.26	0.98	1.28	4	4	0	2300	2300	0
7/10/2024 14:04	55001	NEWP_T1	71	103	32	1.22	1.13	-0.09	0.14	0.12	0	0	0	0	0	0
7/10/2024 14:04	53802	MBRG_T2	2	1	-1	0.45	0	-0.45	1.15	0.79	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/10/2024 14:04	48301	ORWI_T1	8	14	6	0.86	1.4	0.54	0.18	-0.1	2	2	0	1800	1800	0
7/10/2024 14:04	47002	HUGH_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 14:06	12401	MILF_T1	9	8	-1	0.58	0.58	0	0	0	0	0	0	0	0	0
7/10/2024 14:06	12402	MILF_T1	149	156	7	1.87	1.94	0.07	0.78	0.74	1	1	0	1200	1200	0
7/10/2024 14:08	67801	WLAN_T1	108	113	5	0.81	0.89	0.08	-0.73	-0.7	0	0	0	0	0	0
7/10/2024 14:08	67804	WLAN_T1	10	10	0	2.1	1.87	-0.23	0	0	0	0	0	0	0	0
7/10/2024 14:09	41903	REED_T1	8	7	-1	1.59	1.26	-0.33	0	0	0	0	0	0	0	0
7/10/2024 14:09	13503	MCMI_T2	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
7/10/2024 14:09	41902	REED_T1	139	174	35	0.65	0.68	0.03	0.24	0.08	2	2	0	1800	1800	0
7/10/2024 14:09	41901	REED_T1	3	5	2	0.43	0	-0.43	0	0	0	0	0	0	0	0
7/10/2024 14:11	57403	SPAN_T1	7	2	-5	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/10/2024 14:11	59102	WALK_T2	7	19	12	0.49	0.33	-0.16	0	0	0	0	0	0	0	0
7/10/2024 14:11	59101	WALK_T2	18	32	14	0.49	0.59	0.1	1	0.99	4	4	0	2400	2400	0
7/10/2024 14:11	57401	SPAN_T1	14	8	-6	1.37	1.33	-0.04	-4.18	-7.29	8	12	4	6000	9600	3600
7/10/2024 14:12	41302	FISH_T2	26	29	3	2.08	4.36	2.28	0	0	0	0	0	0	0	0
7/10/2024 14:12	58003	WCAR_T1	0	2	2	0	0.1	0.1	0.98	1	1	1	0	600	600	0
7/10/2024 14:12	41304	FISH_T2	10	15	5	0.54	0.39	-0.15	0.22	0.24	0	0	0	0	0	0
7/10/2024 14:12	41306	FISH_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
7/10/2024 14:13	64203	KINZ_T1	1165	1175	10	1.11	0.92	-0.19	1.05	0.94	3	3	0	2100	2100	0
7/10/2024 14:13	64201	KINZ_T1	799	860	61	1.52	1.57	0.05	0	0	0	0	0	0	0	0
7/10/2024 14:13	64204	KINZ_T1	712	734	22	1.33	1.04	-0.29	0	0	0	0	0	0	0	0
7/10/2024 14:13	64202	KINZ_T1	102	100	-2	1.94	1.9	-0.04	0	0	0	0	0	0	0	0
7/10/2024 14:14	64203	KINZ_T1	1165	1175	10	1.11	0.92	-0.19	1.05	0.94	3	3	0	2100	2100	0
7/10/2024 14:14	64201	KINZ_T1	799	860	61	1.52	1.57	0.05	0	0	0	0	0	0	0	0
7/10/2024 14:14	64204	KINZ_T1	712	734	22	1.33	1.04	-0.29	0	0	0	0	0	0	0	0
7/10/2024 14:14	64202	KINZ_T1	102	100	-2	1.94	1.9	-0.04	0	0	0	0	0	0	0	0
7/10/2024 14:15	64203	KINZ_T1	1175	1103	-72	1.17	0.91	-0.26	1.05	0.94	3	3	0	2100	2100	0
7/10/2024 14:15	64202	KINZ_T1	100	100	0	2.1	1.88	-0.22	0	0	0	0	0	0	0	0
7/10/2024 14:15	64204	KINZ_T1	730	712	-18	1.21	1.04	-0.17	0	0	0	0	0	0	0	0
7/10/2024 14:15	64201	KINZ_T1	860	831	-29	1.59	1.52	-0.07	0	0	0	0	0	0	0	0
7/10/2024 14:16	24105	EHAZ_T1	4	4	0	7	7.1	0.1	0	0	0	0	0	0	0	0
7/10/2024 14:16	67605	WARW_T1	1	1	0	0.6	0.3	-0.3	-0.5	-0.51	0	0	0	0	0	0
7/10/2024 14:16	24102	EHAZ_T1	24	25	1	0.61	1	0.39	0.77	0.74	0	0	0	0	0	0
7/10/2024 14:16	24101	EHAZ_T1	195	282	87	1.15	1.25	0.1	0	0	0	0	0	0	0	0
7/10/2024 14:17	29402	BELT_T1	1	1	0	8.4	8.5	0.1	0	0	0	0	0	0	0	0
7/10/2024 14:17	65501	MOJO_T1	0	2	2	0	0	0	-0.26	-0.24	1	1	0	900	900	0
7/10/2024 14:17	29401	BELT_T1	14	18	4	0.57	0.54	-0.03	0	0	0	0	0	0	0	0
7/10/2024 14:17	67605	WARW_T1	1	1	0	0.6	0.3	-0.3	-0.5	-0.51	0	0	0	0	0	0
7/10/2024 14:17	45702	LIND_T2	2	2	0	0.5	0.5	0	-0.87	-0.85	0	0	0	0	0	0
7/10/2024 14:18	47101	MARL_T1	492	320	-172	1.07	0.94	-0.13	-0.37	-0.28	1	1	0	600	600	0
7/10/2024 14:18	47104	MARL_T1	22	26	4	0.5	0.67	0.17	0	0	0	0	0	0	0	0
7/10/2024 14:19	51003	NHAR_T1	0	7	7	0	0.42	0.42	0	0	0	0	0	0	0	0
7/10/2024 14:19	51004	NHAR_T1	13	16	3	0.94	1.06	0.12	-2.11	-2.13	0	0	0	0	0	0
7/10/2024 14:20	45702	LIND_T2	2	2	0	0.5	0.5	0	-0.87	-0.85	0	0	0	0	0	0
7/10/2024 14:20	52001	LING_T1	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0
7/10/2024 14:20	52003	LING_T1	12	12	0	0.62	0.9	0.28	0	0	0	0	0	0	0	0
7/10/2024 14:22	54602	SUMM_T2	4	13	9	0.5	0.9	0.4	0	0	0	0	0	0	0	0
7/10/2024 14:22	14101	TRUM_T2	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
7/10/2024 14:22	54603	SUMM_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/10/2024 14:22	14103	TRUM_T2	171	207	36	0.62	0.55	-0.07	0	0	0	0	0	0	0	0
7/10/2024 14:22	54601	SUMM_T2	2	12	10	0.6	0.45	-0.15	0	0	3	3	0	3000	3000	0
7/10/2024 14:23	66701	STRA_T1	17	14	-3	0.65	0.68	0.03	0	0	0	0	0	0	0	0
7/10/2024 14:23	66703	STRA_T1	164	144	-20	0.73	0.29	-0.44	0.43	-0.68	0	0	0	0	0	0
7/10/2024 14:23	14101	TRUM_T2	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
7/10/2024 14:23	60803	BUCK_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/10/2024 14:23	14103	TRUM_T2	171	207	36	0.62	0.55	-0.07	0	0	0	0	0	0	0	0
7/10/2024 14:24	60803	BUCK_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/10/2024 14:25	57403	SPAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/10/2024 14:25	57401	SPAN_T1	6	8	2	1.75	1.07	-0.68	-1.82	-1.76	3	3	0	2400	2400	0
7/10/2024 14:26	57403	SPAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/10/2024 14:26	60801	BUCK_T1	0	0	0	0	0	0	-0.29	-0.24	0	0	0	0	0	0
7/10/2024 14:26	57401	SPAN_T1	6	8	2	1.75	1.07	-0.68	0	0	0	0	0	0	0	0
7/10/2024 14:27	60803	BUCK_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/10/2024 14:29	63801	HEMP_T1	0	0	0	0	0	0	-0.28	-0.32	1	1	0	900	900	0
7/10/2024 14:29	63803	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 14:29	63804	HEMP_T1	5	2	-3	1.8	8.4	6.6	0	0	0	0	0	0	0	0
7/10/2024 14:30	60803	BUCK_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/10/2024 14:32	63801	HEMP_T1	0	0	0	0	0	0	-0.28	-0.32	1	1	0	900	900	0
7/10/2024 14:32	45702	LIND_T2	2	1	-1	0.5	0.2	-0.3	-0.85	-0.86	0	0	0	0	0	0
7/10/2024 14:32	63803	HEMP_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/10/2024 14:32	63802	HEMP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 14:32	63804	HEMP_T1	1	8	7	8.5	4.3	-4.2	0	0	0	0	0	0	0	0
7/10/2024 14:33	49803	UNIV_T1	6	24	18	0.45	0.26	-0.19	-1.17	-1.19	0	0	0	0	0	0
7/10/2024 14:33	49804	UNIV_T1	10	11	1	0.51	0.36	-0.15	0	0	0	0	0	0	0	0
7/10/2024 14:35	42903	MIDD_T2	1	5	4	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/10/2024 14:35	42902	MIDD_T2	32	38	6	0.76	1.78	1.02	0.21	0.29	2	2	0	900	900	0
7/10/2024 14:35	40601	PIGR_T1	26	26	0	0.71	0.58	-0.13	0	0	0	0	0	0	0	0
7/10/2024 14:35	41902	REED_T1	168	175	7	0.79	0.56	-0.23	0.04	0.11	1	1	0	900	900	0
7/10/2024 14:35	42901	MIDD_T2	41	56	15	0.87	0.71	-0.16	0	0	0	0	0	0	0	0
7/10/2024 14:35	49803	UNIV_T1	6	24	18	0.45	0.26	-0.19	-1.17	-1.19	0	0	0	0	0	0
7/10/2024 14:35	41901	REED_T1	2	10	8	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
7/10/2024 14:35	49804	UNIV_T1	10	11	1	0.51	0.36	-0.15	0	0	0	0	0	0	0	0
7/10/2024 14:35	40602	PIGR_T1	32	11	-21	0.55	0.75	0.2	-0.52	-1.06	1	1	0	600	600	0
7/10/2024 14:35	40603	PIGR_T1	82	84	2	1.38	1.63	0.25	0	0	0	0	0	0	0	0
7/10/2024 14:35	41903	REED_T1	7	7	0	1.26	1.08	-0.18	0	0	0	0	0	0	0	0
7/10/2024 14:35	67703	WERN_T2	50	129	79	0.47	0.48	0.01	-0.01	-0.01	1	1	0	900	900	0
7/10/2024 14:36	67605	WARW_T1	1	1	0	0.3	0.5	0.2	-0.51	-0.56	0	0	0	0	0	0
7/10/2024 14:37	45302	WBER_T2	22	38	16	0.69	0.78	0.09	3.54	3.52	0	0	0	0	0	0
7/10/2024 14:37	67703	WERN_T2	50	129	79	0.47	0.48	0.01	-0.01	-0.01	1	1	0	900	900	0
7/10/2024 14:37	67605	WARW_T1	1	1	0	0.3	0.5	0.2	-0.56	-0.54	0	0	0	0	0	0
7/10/2024 14:37	45301	WBER_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 14:38	46301	ROHR_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 14:38	42902	MIDD_T2	32	38	6	0.76	1.78	1.02	0.29	0.15	2	2	0	900	900	0
7/10/2024 14:38	42903	MIDD_T2	1	5	4	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/10/2024 14:38	46302	ROHR_T1	2	5	3	0.4	0.15	-0.25	1.1	1.1	0	0	0	0	0	0
7/10/2024 14:38	67602	WARW_T2	2	7	5	0.15	1.07	0.92	1.73	1.82	6	6	0	4500	4500	0
7/10/2024 14:38	67703	WERN_T2	50	129	79	0.47	0.48	0.01	-0.01	-0.01	1	1	0	900	900	0
7/10/2024 14:38	56504	ROCK_T2	19	26	7	0.62	0.56	-0.06	0.75	0.75	0	0	0	0	0	0
7/10/2024 14:38	44601	SALE_T2	4	1	-3	0.53	0	-0.53	0.18	0.06	2	2	0	900	900	0
7/10/2024 14:38	42901	MIDD_T2	41	56	15	0.87	0.71	-0.16	0	0	0	0	0	0	0	0
7/10/2024 14:38	56503	ROCK_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/10/2024 14:38	56501	ROCK_T2	8	7	-1	0.98	1.23	0.25	0	0	0	0	0	0	0	0
7/10/2024 14:39	67602	WARW_T2	2	7	5	0.15	1.07	0.92	0.58	0.61	2	2	0	1500	1500	0
7/10/2024 14:39	56501	ROCK_T2	8	7	-1	0.98	1.23	0.25	0	0	0	0	0	0	0	0
7/10/2024 14:39	56504	ROCK_T2	19	26	7	0.62	0.56	-0.06	0.75	0.75	0	0	0	0	0	0
7/10/2024 14:39	56503	ROCK_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/10/2024 14:41	10701	CATA_T2	8	8	0	0.64	0.36	-0.28	0	0	0	0	0	0	0	0
7/10/2024 14:41	20402	ASHF_T2	151	113	-38	0.74	0.8	0.06	0	0	0	0	0	0	0	0
7/10/2024 14:41	56801	BENV_T1	6	9	3	0.23	0.48	0.25	0	0	0	0	0	0	0	0
7/10/2024 14:41	20401	ASHF_T2	15	15	0	0.82	0.66	-0.16	0	0	0	0	0	0	0	0
7/10/2024 14:41	56803	BENV_T1	30	62	32	1.29	0.96	-0.33	0.26	0.33	1	1	0	600	600	0
7/10/2024 14:41	10702	CATA_T2	1	13	12	0.1	0.32	0.22	0	0	0	0	0	0	0	0
7/10/2024 14:41	10705	CATA_T2	0	0	0	0	0	0	-0.69	-0.69	1	1	0	900	900	0
7/10/2024 14:41	20403	ASHF_T2	143	112	-31	0.88	0.58	-0.3	1.2	1.31	0	0	0	0	0	0
7/10/2024 14:41	42201	SHEN_T2	0	0	0	0	0	0	0.27	0.17	1	1	0	600	600	0
7/10/2024 14:43	10702	CATA_T2	1	13	12	0.1	0.32	0.22	0	0	0	0	0	0	0	0
7/10/2024 14:43	10701	CATA_T2	8	8	0	0.64	0.36	-0.28	0	0	0	0	0	0	0	0
7/10/2024 14:43	10705	CATA_T2	0	0	0	0	0	0	-0.69	-0.69	1	1	0	900	900	0
7/10/2024 14:44	10705	CATA_T2	0	0	0	0	0	0	-0.69	-0.69	1	1	0	900	900	0
7/10/2024 14:44	11102	EGYP_T1	29	34	5	1.19	1.27	0.08	0	0	0	0	0	0	0	0
7/10/2024 14:44	63802	HEMP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 14:44	10702	CATA_T2	1	13	12	0.1	0.32	0.22	0	0	0	0	0	0	0	0
7/10/2024 14:44	63803	HEMP_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/10/2024 14:44	10701	CATA_T2	8	8	0	0.64	0.36	-0.28	0	0	0	0	0	0	0	0
7/10/2024 14:44	11103	EGYP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 14:44	11101	EGYP_T1	8	7	-1	1.09	3.16	2.07	0	0	0	0	0	0	0	0
7/10/2024 14:44	11104	EGYP_T1	24	5	-19	1.01	0.94	-0.07	-0.88	-0.66	2	2	0	1800	1800	0
7/10/2024 14:44	56803	BENV_T1	30	62	32	1.29	0.96	-0.33	0	0	0	0	0	0	0	0
7/10/2024 14:44	63801	HEMP_T1	0	0	0	0	0	0	-0.32	-0.2	1	1	0	900	900	0
7/10/2024 14:44	63804	HEMP_T1	1	8	7	8.5	4.3	-4.2	0	0	0	0	0	0	0	0
7/10/2024 14:44	56801	BENV_T1	6	9	3	0.23	0.48	0.25	-0.3	-0.34	2	2	0	1200	1200	0
7/10/2024 14:45	42201	SHEN_T2	0	0	0	0	0	0	0.27	0.17	1	1	0	600	600	0
7/10/2024 14:45	21901	HUMB_T1	14	13	-1	0.64	0.87	0.23	-1.25	-1.24	0	0	0	0	0	0
7/10/2024 14:45	60803	BUCK_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/10/2024 14:49	53802	MBRG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 14:49	53803	MBRG_T2	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
7/10/2024 14:50	53802	MBRG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 14:50	53803	MBRG_T2	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
7/10/2024 14:50	57403	SPAN_T1	1	12	11	0.1	0.18	0.08	0	0	0	0	0	0	0	0
7/10/2024 14:50	57401	SPAN_T1	6	24	18	1.15	0.66	-0.49	-1.76	-1.84	3	3	0	2400	2400	0
7/10/2024 14:51	66503	SMAN_T2	10	26	16	0.44	0.48	0.04	0	0	0	0	0	0	0	0
7/10/2024 14:51	40602	PIGR_T1	10	8	-2	0.52	0.68	0.16	-1.06	-1.09	1	1	0	600	600	0
7/10/2024 14:51	66505	SMAN_T2	294	337	43	0.79	0.89	0.1	1.08	1.16	4	4	0	2300	2300	0
7/10/2024 14:51	66504	SMAN_T2	14	18	4	0.74	0.68	-0.06	0	0	0	0	0	0	0	0
7/10/2024 14:51	40603	PIGR_T1	81	84	3	1.63	1.76	0.13	0	0	0	0	0	0	0	0
7/10/2024 14:51	40601	PIGR_T1	22	32	10	0.62	0.57	-0.05	0	0	0	0	0	0	0	0
7/10/2024 14:53	47402	PENS_T1	2	9	7	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/10/2024 14:53	47401	PENS_T1	34	45	11	0.65	0.83	0.18	0.88	0.92	0	0	0	0	0	0
7/10/2024 14:53	47403	PENS_T1	2	1	-1	0.55	1.3	0.75	0	0	0	0	0	0	0	0
7/10/2024 14:53	67703	WERN_T2	89	127	38	0.51	0.55	0.04	-0.01	-0.01	1	1	0	900	900	0
7/10/2024 14:54	14402	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 14:54	67703	WERN_T2	89	127	38	0.51	0.55	0.04	-0.02	-0.02	2	2	0	1800	1800	0
7/10/2024 14:54	14403	SSLA_T1	19	22	3	1.25	1.18	-0.07	1.55	1.55	1	1	0	600	600	0
7/10/2024 14:54	14404	SSLA_T1	29	43	14	1.17	0.9	-0.27	0	0	0	0	0	0	0	0
7/10/2024 14:54	14401	SSLA_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/10/2024 14:56	67605	WARW_T1	1	1	0	0.2	0.5	0.3	-0.54	-0.5	0	0	0	0	0	0
7/10/2024 14:56	15001	BLMO_T1	4	4	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
7/10/2024 14:57	67605	WARW_T1	1	1	0	0.2	0.5	0.3	-0.54	-0.5	0	0	0	0	0	0
7/10/2024 14:57	42701	AUGU_T1	81	87	6	2.34	2.22	-0.12	0	0	2	2	0	1800	1800	0
7/10/2024 14:58	42701	AUGU_T1	81	87	6	2.34	2.22	-0.12	0	0	2	2	0	1800	1800	0
7/10/2024 15:01	42701	AUGU_T1	85	91	6	2.32	2.28	-0.04	0	0	2	2	0	1800	1800	0
7/10/2024 15:03	60502	NMAN_T2	0	0	0	0	0	0	0.86	0.58	0	0	0	0	0	0
7/10/2024 15:03	60504	NMAN_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/10/2024 15:03	60501	NMAN_T2	3	3	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
7/10/2024 15:05	45702	LIND_T2	1	3	2	0.2	0.17	-0.03	-0.86	-0.83	0	0	0	0	0	0
7/10/2024 15:06	46302	ROHR_T1	4	4	0	0.2	0.55	0.35	0.55	0.56	0	0	0	0	0	0
7/10/2024 15:06	46301	ROHR_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/10/2024 15:07	66505	SMAN_T2	301	335	34	0.9	0.9	0	1.16	1.05	4	4	0	2300	2300	0
7/10/2024 15:07	66504	SMAN_T2	16	18	2	0.64	0.6	-0.04	0	0	0	0	0	0	0	0
7/10/2024 15:07	40601	PIGR_T1	23	39	16	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
7/10/2024 15:07	40602	PIGR_T1	5	15	10	0.66	0.55	-0.11	-1.06	-1.03	1	1	0	600	600	0
7/10/2024 15:07	40603	PIGR_T1	84	84	0	1.88	1.71	-0.17	0	0	0	0	0	0	0	0
7/10/2024 15:07	66503	SMAN_T2	22	29	7	0.55	0.65	0.1	0	0	0	0	0	0	0	0
7/10/2024 15:08	56504	ROCK_T2	22	33	11	0.65	0.65	0	0.75	0.78	0	0	0	0	0	0
7/10/2024 15:08	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/10/2024 15:08	47402	PENS_T1	9	6	-3	0.59	0.1	-0.49	0	0	0	0	0	0	0	0
7/10/2024 15:08	28102	TWLA_T2	11	6	-5	1	0.5	-0.5	0.44	0.46	0	0	0	0	0	0
7/10/2024 15:08	47403	PENS_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
7/10/2024 15:08	56501	ROCK_T2	7	10	3	1.19	0.33	-0.86	0	0	0	0	0	0	0	0
7/10/2024 15:08	47401	PENS_T1	38	42	4	0.63	0.8	0.17	0.92	0.94	0	0	0	0	0	0
7/10/2024 15:09	47403	PENS_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
7/10/2024 15:09	47401	PENS_T1	38	42	4	0.63	0.8	0.17	0.92	0.94	0	0	0	0	0	0
7/10/2024 15:09	43304	WATS_T2	90	107	17	0.64	0.59	-0.05	-0.41	-0.42	1	1	0	600	600	0
7/10/2024 15:09	43301	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/10/2024 15:09	47402	PENS_T1	9	6	-3	0.59	0.1	-0.49	0	0	0	0	0	0	0	0
7/10/2024 15:10	42201	SHEN_T2	0	0	0	0	0	0	0.22	0.19	1	1	0	600	600	0
7/10/2024 15:11	42201	SHEN_T2	0	0	0	0	0	0	0.22	0.19	1	1	0	600	600	0
7/10/2024 15:12	15001	BLMO_T1	2	15	13	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
7/10/2024 15:12	42201	SHEN_T2	0	0	0	0	0	0	0.22	0.19	1	1	0	600	600	0
7/10/2024 15:12	11902	ETEX_T1	2	2	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/10/2024 15:12	11903	ETEX_T1	8	24	16	0.41	0.37	-0.04	1.62	1.54	0	0	0	0	0	0
7/10/2024 15:13	58203	NEWV_T2	144	141	-3	2.05	2.17	0.12	-0.64	-0.63	0	0	0	0	0	0
7/10/2024 15:13	60201	ATGL_T2	0	0	0	0	0	0	0.14	0.15	2	2	0	900	900	0
7/10/2024 15:15	67502	WEWI_T2	90	100	10	0.94	0.83	-0.11	0	0	0	0	0	0	0	0
7/10/2024 15:15	67503	WEWI_T2	123	172	49	0.89	0.8	-0.09	0.61	0.64	0	0	0	0	0	0
7/10/2024 15:16	67604	WARW_T1	0	419	419	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 15:16	67603	WARW_T1	0	19	19	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 15:16	67605	WARW_T1	1	37	36	0.3	0.1	-0.2	-0.5	-0.47	0	0	0	0	0	0
7/10/2024 15:17	67605	WARW_T1	1	37	36	0.3	0.1	-0.2	-0.5	-0.47	0	0	0	0	0	0
7/10/2024 15:17	42901	MIDD_T2	60	51	-9	1.19	0.83	-0.36	0	0	0	0	0	0	0	0
7/10/2024 15:17	57506	LAWN_T3	18	42	24	1.51	0.99	-0.52	0	0	0	0	0	0	0	0
7/10/2024 15:17	57501	LAWN_T3	4	4	0	1.48	1.1	-0.38	0	0	0	0	0	0	0	0
7/10/2024 15:17	67603	WARW_T1	0	19	19	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 15:17	57505	LAWN_T3	24	43	19	0.65	0.55	-0.1	-0.43	-0.37	0	0	0	0	0	0
7/10/2024 15:17	67604	WARW_T1	0	419	419	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 15:17	11903	ETEX_T1	7	24	17	0.4	0.36	-0.04	1.62	1.54	0	0	0	0	0	0
7/10/2024 15:17	42902	MIDD_T2	35	34	-1	1.9	1.35	-0.55	0.07	-0.27	2	2	0	900	900	0
7/10/2024 15:17	42903	MIDD_T2	8	1	-7	0.49	0	-0.49	0	0	0	0	0	0	0	0
7/10/2024 15:17	11902	ETEX_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/10/2024 15:17	57502	LAWN_T3	21	26	5	0.54	0.52	-0.02	0	0	0	0	0	0	0	0
7/10/2024 15:19	42903	MIDD_T2	8	1	-7	0.49	0	-0.49	0	0	0	0	0	0	0	0
7/10/2024 15:19	42902	MIDD_T2	35	34	-1	1.9	1.35	-0.55	0.07	-0.27	2	2	0	900	900	0
7/10/2024 15:19	42901	MIDD_T2	60	51	-9	1.19	0.83	-0.36	0	0	0	0	0	0	0	0
7/10/2024 15:21	42902	MIDD_T2	35	34	-1	1.9	1.35	-0.55	-0.27	0	2	2	0	900	900	0
7/10/2024 15:21	42901	MIDD_T2	60	51	-9	1.19	0.83	-0.36	0	0	0	0	0	0	0	0
7/10/2024 15:21	42903	MIDD_T2	8	1	-7	0.49	0	-0.49	0	0	0	0	0	0	0	0
7/10/2024 15:22	42902	MIDD_T2	35	34	-1	1.9	1.35	-0.55	-0.53	-0.01	4	2	-2	1800	1200	-600
7/10/2024 15:22	64101	REFR_T1	26	27	1	0.84	0.7	-0.14	-0.17	-0.17	0	0	0	0	0	0
7/10/2024 15:22	42901	MIDD_T2	60	51	-9	1.19	0.83	-0.36	0	0	0	0	0	0	0	0
7/10/2024 15:22	42903	MIDD_T2	8	1	-7	0.49	0	-0.49	0	0	0	0	0	0	0	0
7/10/2024 15:23	64101	REFR_T1	26	27	1	0.84	0.7	-0.14	-0.17	-0.17	0	0	0	0	0	0
7/10/2024 15:24	47401	PENS_T1	28	49	21	0.77	0.72	-0.05	0.94	0.91	0	0	0	0	0	0
7/10/2024 15:24	47403	PENS_T1	1	1	0	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
7/10/2024 15:24	45302	WBER_T2	36	38	2	0.81	0.76	-0.05	1.76	1.77	0	0	0	0	0	0
7/10/2024 15:24	47402	PENS_T1	2	8	6	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/10/2024 15:24	45303	WBER_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 15:25	64101	REFR_T1	26	27	1	0.84	0.7	-0.14	-0.17	-0.17	0	0	0	0	0	0
7/10/2024 15:27	61701	ELIZ_T1	1	4	3	1.5	1.4	-0.1	1.72	1.84	0	0	0	0	0	0
7/10/2024 15:28	15001	BLMO_T1	3	16	13	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
7/10/2024 15:28	56801	BENV_T1	10	10	0	0.42	0.5	0.08	0	0	0	0	0	0	0	0
7/10/2024 15:28	56803	BENV_T1	25	25	0	1.12	1.38	0.26	0.15	0.09	1	1	0	600	600	0
7/10/2024 15:30	61701	ELIZ_T1	1	4	3	1.4	1.2	-0.2	1.72	1.84	0	0	0	0	0	0
7/10/2024 15:31	12301	LANA_T2	0	0	0	0	0	0	-1.72	-1.72	1	1	0	1200	1200	0
7/10/2024 15:31	12302	LANA_T2	2	4	2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/10/2024 15:31	12304	LANA_T2	109	112	3	3.02	3.1	0.08	0	0	0	0	0	0	0	0
7/10/2024 15:31	12305	LANA_T2	11	15	4	1.1	1.29	0.19	0	0	0	0	0	0	0	0
7/10/2024 15:34	52006	LING_T2	6	5	-1	0.72	0.2	-0.52	0	0	0	0	0	0	0	0
7/10/2024 15:34	52002	LING_T2	41	32	-9	0.34	0.25	-0.09	0	0	0	0	0	0	0	0
7/10/2024 15:34	52004	LING_T2	4	4	0	1	0.55	-0.45	0.56	0.6	0	0	0	0	0	0
7/10/2024 15:36	67603	WARW_T1	0	19	19	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 15:36	56503	ROCK_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/10/2024 15:36	56504	ROCK_T2	30	30	0	0.6	0.52	-0.08	0	0	0	0	0	0	0	0
7/10/2024 15:36	67703	WERN_T2	10	17	7	0.57	0.42	-0.15	-0.02	-0.02	2	2	0	1800	1800	0
7/10/2024 15:36	67604	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 15:36	67605	WARW_T1	1	40	39	0.1	0	-0.1	-0.47	-0.69	0	0	0	0	0	0
7/10/2024 15:36	56501	ROCK_T2	7	8	1	0.56	0.4	-0.16	-1.74	-1.73	0	0	0	0	0	0
7/10/2024 15:37	67603	WARW_T1	0	19	19	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 15:37	67605	WARW_T1	1	40	39	0.1	0	-0.1	-0.69	-0.55	0	0	0	0	0	0
7/10/2024 15:37	67604	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 15:40	53601	DALM_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/10/2024 15:40	53602	DALM_T2	0	0	0	0	0	0	-0.31	-0.3	1	1	0	600	600	0
7/10/2024 15:41	20401	ASHF_T2	14	31	17	0.88	0.79	-0.09	0	0	0	0	0	0	0	0
7/10/2024 15:41	40303	TAMA_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/10/2024 15:41	40301	TAMA_T3	3	2	-1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
7/10/2024 15:41	20403	ASHF_T2	117	163	46	0.92	0.89	-0.03	1.3	1.24	0	0	0	0	0	0
7/10/2024 15:41	40302	TAMA_T3	3	5	2	0.3	0.4	0.1	-2.11	-2.13	1	1	0	1200	1200	0
7/10/2024 15:41	20402	ASHF_T2	181	238	57	0.66	0.7	0.04	0	0	0	0	0	0	0	0
7/10/2024 15:42	56503	ROCK_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/10/2024 15:42	56501	ROCK_T2	7	8	1	0.56	0.4	-0.16	-1.73	-1.67	0	0	0	0	0	0
7/10/2024 15:42	56504	ROCK_T2	30	30	0	0.6	0.52	-0.08	0	0	0	0	0	0	0	0
7/10/2024 15:46	65902	SAKR_T2	1	5	4	4.1	1.1	-3	-0.5	-0.39	2	2	0	1200	1200	0
7/10/2024 15:46	65903	SAKR_T2	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
7/10/2024 15:46	65901	SAKR_T2	18	33	15	0.71	0.61	-0.1	0	0	0	0	0	0	0	0
7/10/2024 15:48	22901	HARW_T1	41	59	18	1.26	1.2	-0.06	0.04	0	1	1	0	1200	1200	0
7/10/2024 15:48	22905	HARW_T1	32	33	1	0.67	0.62	-0.05	0	0	0	0	0	0	0	0
7/10/2024 15:48	22903	HARW_T1	24	26	2	1.62	1.79	0.17	0	0	0	0	0	0	0	0
7/10/2024 15:52	53903	HALI_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
7/10/2024 15:52	53902	HALI_T2	1	2	1	3.1	3.2	0.1	0	0	0	0	0	0	0	0
7/10/2024 15:55	43402	BENT_T1	20	34	14	0.59	0.72	0.13	-0.24	-0.4	1	1	0	900	900	0
7/10/2024 15:56	16002	DORN_T2	198	320	122	0.89	0.75	-0.14	0.57	0.57	1	1	0	1200	1200	0
7/10/2024 15:56	21206	ECAR_T2	101	117	16	0.91	0.84	-0.07	0.64	0.63	0	0	0	0	0	0
7/10/2024 15:56	21204	ECAR_T2	10	7	-3	1.32	0.45	-0.87	0	0	0	0	0	0	0	0
7/10/2024 15:56	16006	DORN_T2	94	118	24	1.5	1.36	-0.14	0	0	0	0	0	0	0	0
7/10/2024 15:56	21202	ECAR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 15:57	67601	WARW_T2	8	1	-7	0.56	0	-0.56	0	0	0	0	0	0	0	0
7/10/2024 15:57	67602	WARW_T2	4	4	0	0.38	0.47	0.09	0.67	0.29	2	2	0	1500	1500	0
7/10/2024 15:57	21202	ECAR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 15:57	43402	BENT_T1	20	34	14	0.59	0.72	0.13	-0.48	-0.8	2	2	0	1800	1800	0
7/10/2024 15:57	21206	ECAR_T2	101	117	16	0.91	0.84	-0.07	0.64	0.63	0	0	0	0	0	0
7/10/2024 15:57	21204	ECAR_T2	10	7	-3	1.32	0.45	-0.87	0	0	0	0	0	0	0	0
7/10/2024 15:58	67601	WARW_T2	8	1	-7	0.56	0	-0.56	0	0	0	0	0	0	0	0
7/10/2024 15:58	67602	WARW_T2	4	4	0	0.38	0.47	0.09	0.67	0.29	2	2	0	1500	1500	0
7/10/2024 15:59	22901	HARW_T1	41	59	18	1.26	1.2	-0.06	0	-0.04	1	1	0	1200	1200	0
7/10/2024 15:59	53601	DALM_T2	1	1	0	0.1	0	-0.1	-0.46	-0.66	1	1	0	900	900	0
7/10/2024 15:59	24101	EHAZ_T1	37	29	-8	1.45	1.46	0.01	0	0	0	0	0	0	0	0
7/10/2024 15:59	24102	EHAZ_T1	3	23	20	0.83	0.42	-0.41	0.38	0.37	0	0	0	0	0	0
7/10/2024 15:59	22903	HARW_T1	24	26	2	1.62	1.79	0.17	0	0	0	0	0	0	0	0
7/10/2024 15:59	24103	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 15:59	22905	HARW_T1	32	33	1	0.67	0.62	-0.05	0	0	0	0	0	0	0	0
7/10/2024 15:59	24105	EHAZ_T1	4	4	0	6.98	6.88	-0.1	0	0	0	0	0	0	0	0
7/10/2024 16:00	22905	HARW_T1	30	37	7	1.4	0.64	-0.76	0	0	0	0	0	0	0	0
7/10/2024 16:00	67601	WARW_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/10/2024 16:00	22903	HARW_T1	24	26	2	1.8	2.33	0.53	0	0	0	0	0	0	0	0
7/10/2024 16:00	22901	HARW_T1	53	53	0	1.54	1.14	-0.4	0	-0.04	1	1	0	1200	1200	0
7/10/2024 16:00	67602	WARW_T2	4	3	-1	0.95	0.1	-0.85	1.34	0.58	4	4	0	3000	3000	0
7/10/2024 16:02	61701	ELIZ_T1	1	1	0	1.2	1.6	0.4	1.87	1.84	0	0	0	0	0	0
7/10/2024 16:02	64101	REFR_T1	20	27	7	0.57	0.69	0.12	-0.18	-0.1	0	0	0	0	0	0
7/10/2024 16:02	65903	SAKR_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/10/2024 16:02	46803	HEPB_T2	7	7	0	0.3	0.36	0.06	0	0	0	0	0	0	0	0
7/10/2024 16:02	46801	HEPB_T2	23	24	1	0.32	0.37	0.05	0.78	0.76	0	0	0	0	0	0
7/10/2024 16:02	65901	SAKR_T2	29	31	2	0.52	0.54	0.02	0	0	0	0	0	0	0	0
7/10/2024 16:02	65902	SAKR_T2	2	4	2	1.8	0.5	-1.3	-0.39	-0.37	2	2	0	1200	1200	0
7/10/2024 16:03	58702	ROSE_T2	18	23	5	1.11	0.72	-0.39	0	0	0	0	0	0	0	0
7/10/2024 16:03	52004	LING_T2	2	3	1	0.55	0.3	-0.25	0.58	0.58	0	0	0	0	0	0
7/10/2024 16:03	12304	LANA_T2	110	111	1	3.1	2.92	-0.18	0	0	0	0	0	0	0	0
7/10/2024 16:03	20601	GRWO_T2	147	410	263	0.96	1.38	0.42	0.96	1.01	0	0	0	0	0	0
7/10/2024 16:03	52002	LING_T2	19	55	36	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
7/10/2024 16:03	58701	ROSE_T2	35	54	19	0.68	0.55	-0.13	0	0	0	0	0	0	0	0
7/10/2024 16:03	12301	LANA_T2	0	0	0	0	0	0	-1.69	-1.67	1	1	0	1200	1200	0
7/10/2024 16:03	58706	ROSE_T2	16	21	5	1.06	1.1	0.04	0.7	0.69	1	1	0	600	600	0
7/10/2024 16:03	12305	LANA_T2	12	18	6	1.12	1.28	0.16	0	0	0	0	0	0	0	0
7/10/2024 16:03	58705	ROSE_T2	11	15	4	0.29	0.4	0.11	0	0	0	0	0	0	0	0
7/10/2024 16:03	52006	LING_T2	2	8	6	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/10/2024 16:03	12302	LANA_T2	2	9	7	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/10/2024 16:04	57505	LAWN_T3	33	42	9	0.61	0.63	0.02	-0.37	-0.34	0	0	0	0	0	0
7/10/2024 16:04	57506	LAWN_T3	27	39	12	1.01	0.76	-0.25	0	0	0	0	0	0	0	0
7/10/2024 16:04	57502	LAWN_T3	15	15	0	0.48	0.17	-0.31	0	0	0	0	0	0	0	0
7/10/2024 16:04	57501	LAWN_T3	4	5	1	0.73	0.47	-0.26	0	0	0	0	0	0	0	0
7/10/2024 16:05	52004	LING_T2	2	3	1	0.55	0.3	-0.25	0.58	0.58	0	0	0	0	0	0
7/10/2024 16:05	52006	LING_T2	2	8	6	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/10/2024 16:05	47402	PENS_T1	4	11	7	0.3	0.42	0.12	0	0	0	0	0	0	0	0
7/10/2024 16:05	47401	PENS_T1	34	48	14	0.7	0.8	0.1	0.87	0.89	0	0	0	0	0	0
7/10/2024 16:05	47403	PENS_T1	1	2	1	1.1	0.55	-0.55	0	0	0	0	0	0	0	0
7/10/2024 16:05	52002	LING_T2	19	55	36	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
7/10/2024 16:06	47403	PENS_T1	1	2	1	1.1	0.55	-0.55	0	0	0	0	0	0	0	0
7/10/2024 16:06	47401	PENS_T1	34	48	14	0.7	0.8	0.1	0.89	0.88	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/10/2024 16:06	47402	PENS_T1	4	11	7	0.3	0.42	0.12	0	0	0	0	0	0	0	0
7/10/2024 16:07	47401	PENS_T1	34	48	14	0.7	0.8	0.1	0.89	0.88	0	0	0	0	0	0
7/10/2024 16:07	47403	PENS_T1	1	2	1	1.1	0.55	-0.55	0	0	0	0	0	0	0	0
7/10/2024 16:07	47402	PENS_T1	4	11	7	0.3	0.42	0.12	0	0	0	0	0	0	0	0
7/10/2024 16:09	53901	HALI_T2	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
7/10/2024 16:09	47402	PENS_T1	4	11	7	0.3	0.42	0.12	0	0	0	0	0	0	0	0
7/10/2024 16:09	47403	PENS_T1	1	2	1	1.1	0.55	-0.55	0	0	0	0	0	0	0	0
7/10/2024 16:09	47401	PENS_T1	34	48	14	0.7	0.8	0.1	1.79	1.75	0	0	0	0	0	0
7/10/2024 16:09	53902	HALI_T2	1	2	1	3.2	1.5	-1.7	0	0	0	0	0	0	0	0
7/10/2024 16:15	23402	HONE_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 16:15	42701	AUGU_T1	91	109	18	2.68	2.82	0.14	0	0	2	2	0	1800	1800	0
7/10/2024 16:15	23401	HONE_T2	281	336	55	0.95	0.98	0.03	0.28	0.31	0	0	0	0	0	0
7/10/2024 16:15	20601	GRWO_T2	377	436	59	1.37	1.67	0.3	1.01	0.97	0	0	0	0	0	0
7/10/2024 16:15	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 16:16	26401	INOR_T1	178	159	-19	1.59	1.51	-0.08	1.99	1.85	0	0	0	0	0	0
7/10/2024 16:16	40902	JESH_T1	1	1	0	0.1	0.4	0.3	-0.41	-0.39	2	2	0	1200	1200	0
7/10/2024 16:16	26402	INOR_T1	184	181	-3	1.49	1.49	0	0	0	0	0	0	0	0	0
7/10/2024 16:16	40901	JESH_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
7/10/2024 16:17	66505	SMAN_T2	220	278	58	0.51	0.78	0.27	0	0	0	0	0	0	0	0
7/10/2024 16:17	66504	SMAN_T2	23	57	34	0.65	0.9	0.25	0	0	0	0	0	0	0	0
7/10/2024 16:17	66503	SMAN_T2	23	41	18	0.91	0.75	-0.16	0	0	0	0	0	0	0	0
7/10/2024 16:17	66502	SMAN_T2	0	0	0	0	0	0	-0.29	-0.23	1	1	0	900	900	0
7/10/2024 16:18	23402	HONE_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 16:18	23401	HONE_T2	281	336	55	0.95	0.98	0.03	0.28	0.31	0	0	0	0	0	0
7/10/2024 16:20	47402	PENS_T1	7	13	6	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
7/10/2024 16:20	47401	PENS_T1	40	86	46	0.85	0.7	-0.15	1.79	1.75	0	0	0	0	0	0
7/10/2024 16:20	47403	PENS_T1	2	1	-1	0.55	0.9	0.35	0	0	0	0	0	0	0	0
7/10/2024 16:22	47403	PENS_T1	2	1	-1	0.55	0.9	0.35	0	0	0	0	0	0	0	0
7/10/2024 16:22	47401	PENS_T1	40	86	46	0.85	0.7	-0.15	0.88	0.87	0	0	0	0	0	0
7/10/2024 16:22	56504	ROCK_T2	21	41	20	0.55	0.59	0.04	0.77	0.79	0	0	0	0	0	0
7/10/2024 16:22	56503	ROCK_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/10/2024 16:22	47402	PENS_T1	7	13	6	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
7/10/2024 16:22	56501	ROCK_T2	7	13	6	0.49	0.47	-0.02	-3.41	-3.42	0	0	0	0	0	0
7/10/2024 16:23	51003	NHAR_T1	5	20	15	0.16	0.89	0.73	0	0	0	0	0	0	0	0
7/10/2024 16:23	51004	NHAR_T1	18	24	6	1.14	0.88	-0.26	-2.09	-2.07	0	0	0	0	0	0
7/10/2024 16:23	47402	PENS_T1	7	13	6	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
7/10/2024 16:23	47401	PENS_T1	40	86	46	0.85	0.7	-0.15	0.88	0.87	0	0	0	0	0	0
7/10/2024 16:23	56504	ROCK_T2	21	41	20	0.55	0.59	0.04	0	0	0	0	0	0	0	0
7/10/2024 16:23	56501	ROCK_T2	7	13	6	0.49	0.47	-0.02	-3.41	-3.42	0	0	0	0	0	0
7/10/2024 16:23	56503	ROCK_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/10/2024 16:23	47403	PENS_T1	2	1	-1	0.55	0.9	0.35	0	0	0	0	0	0	0	0
7/10/2024 16:24	51003	NHAR_T1	5	20	15	0.16	0.89	0.73	0	0	0	0	0	0	0	0
7/10/2024 16:24	51004	NHAR_T1	18	24	6	1.14	0.88	-0.26	-2.09	-2.07	0	0	0	0	0	0
7/10/2024 16:25	56501	ROCK_T2	7	13	6	0.49	0.47	-0.02	-1.7	-1.71	0	0	0	0	0	0
7/10/2024 16:25	24006	WIBA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 16:25	24001	WIBA_T1	31	29	-2	1.84	1.96	0.12	0	0.01	0	0	0	0	0	0
7/10/2024 16:25	56503	ROCK_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/10/2024 16:25	24003	WIBA_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/10/2024 16:25	56504	ROCK_T2	21	41	20	0.55	0.59	0.04	0	0	0	0	0	0	0	0
7/10/2024 16:29	61702	ELIZ_T2	1	6	5	0.6	0	-0.6	-0.8	-0.82	2	2	0	1500	1500	0
7/10/2024 16:31	11903	ETEX_T1	29	23	-6	0.4	0.35	-0.05	3.34	3.12	0	0	0	0	0	0
7/10/2024 16:31	11902	ETEX_T1	3	9	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
7/10/2024 16:34	16301	ALPA_T1	37	57	20	0.36	0.35	-0.01	1.44	1.44	0	0	0	0	0	0
7/10/2024 16:35	66901	SHIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 16:35	66903	SHIL_T2	4	9	5	0.18	0.43	0.25	0	0	0	0	0	0	0	0
7/10/2024 16:35	66902	SHIL_T2	34	43	9	0.76	0.69	-0.07	-1.1	-1.06	0	0	0	0	0	0
7/10/2024 16:36	47002	HUGH_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
7/10/2024 16:36	59003	MIFF_T1	18	57	39	0.79	1.7	0.91	-1.02	-0.83	0	0	0	0	0	0
7/10/2024 16:36	47001	HUGH_T2	5	5	0	3.28	3.93	0.65	-0.48	-0.48	1	1	0	900	900	0
7/10/2024 16:36	59002	MIFF_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/10/2024 16:38	64101	REFR_T1	27	33	6	0.79	0.59	-0.2	-0.13	-0.15	0	0	0	0	0	0
7/10/2024 16:40	15001	BLMO_T1	24	85	61	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
7/10/2024 16:41	15001	BLMO_T1	24	85	61	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
7/10/2024 16:42	55003	NEWP_T2	35	6	-29	0.51	0.65	0.14	0.09	0.06	1	1	0	600	600	0
7/10/2024 16:43	63401	HONY_T1	0	1	1	0	0	0	0.63	0.51	1	1	0	600	600	0
7/10/2024 16:43	57404	SPAN_T2	12	33	21	0.68	0.59	-0.09	-0.8	-0.76	1	1	0	1200	1200	0
7/10/2024 16:43	57402	SPAN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/10/2024 16:43	63404	HONY_T1	1	5	4	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/10/2024 16:44	15001	BLMO_T1	24	85	61	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
7/10/2024 16:45	64302	LINC_T2	94	136	42	0.54	0.51	-0.03	1.38	1.4	0	0	0	0	0	0
7/10/2024 16:45	64304	LINC_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 16:45	57402	SPAN_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/10/2024 16:45	57404	SPAN_T2	29	24	-5	0.53	0.4	-0.13	-0.8	-0.76	1	1	0	1200	1200	0
7/10/2024 16:47	63404	HONY_T1	5	0	-5	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/10/2024 16:47	63401	HONY_T1	0	1	1	0	0	0	1.26	1.02	2	2	0	1200	1200	0
7/10/2024 16:48	63404	HONY_T1	5	0	-5	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/10/2024 16:48	63401	HONY_T1	0	1	1	0	0	0	0.63	0.51	1	1	0	600	600	0
7/10/2024 16:48	47101	MARI_T1	259	280	21	1.36	1.24	-0.12	-4.53	-4.38	4	4	0	2400	2400	0
7/10/2024 16:48	47104	MARI_T1	34	29	-5	1.21	1.1	-0.11	0	0	0	0	0	0	0	0
7/10/2024 16:50	53902	HALI_T2	3	10	7	1.1	1.05	-0.05	-0.43	-0.45	0	0	0	0	0	0
7/10/2024 16:52	53902	HALI_T2	3	10	7	1.1	1.05	-0.05	-0.23	-0.21	0	0	0	0	0	0
7/10/2024 16:53	67602	WARW_T2	8	12	4	1.36	1.01	-0.35	0.63	0.69	2	2	0	1500	1500	0
7/10/2024 16:54	53902	HALI_T2	3	10	7	1.1	1.05	-0.05	-0.23	-0.21	0	0	0	0	0	0
7/10/2024 16:55	64203	KINZ_T1	114	12	-102	0.85	1.6	0.75	-0.11	-0.64	3	3	0	2100	2100	0
7/10/2024 16:55	67602	WARW_T2	8	12	4	1.36	1.01	-0.35	0.63	0.69	2	2	0	1500	1500	0
7/10/2024 16:55	64201	KINZ_T1	322	12	-310	0.59	0	-0.59	0	0	0	0	0	0	0	0
7/10/2024 16:55	64204	KINZ_T1	155	14	-141	0.54	0.2	-0.34	0	0	0	0	0	0	0	0
7/10/2024 16:55	64202	KINZ_T1	59	35	-24	1.44	0.69	-0.75	0	0	0	0	0	0	0	0
7/10/2024 16:56	64202	KINZ_T1	59	35	-24	1.44	0.69	-0.75	0	0	0	0	0	0	0	0
7/10/2024 16:56	64201	KINZ_T1	322	12	-310	0.59	0	-0.59	0	0	0	0	0	0	0	0
7/10/2024 16:56	64204	KINZ_T1	155	14	-141	0.54	0.2	-0.34	0	0	0	0	0	0	0	0
7/10/2024 16:56	67605	WARW_T1	1	3	2	1	1.8	0.8	-1.39	-1.35	0	0	0	0	0	0
7/10/2024 16:56	64203	KINZ_T1	114	12	-102	0.85	1.6	0.75	-0.11	-0.64	3	3	0	2100	2100	0
7/10/2024 16:56	53902	HALI_T2	3	10	7	1.1	1.05	-0.05	-0.23	-0.21	0	0	0	0	0	0
7/10/2024 16:58	67605	WARW_T1	1	3	2	1	1.8	0.8	-1.39	-1.35	0	0	0	0	0	0
7/10/2024 16:59	67605	WARW_T1	1	3	2	1	1.8	0.8	-1.39	-1.35	0	0	0	0	0	0
7/10/2024 17:00	63401	HONY_T1	1	0	-1	2	0	-2	0.51	0.64	1	1	0	600	600	0
7/10/2024 17:01	58701	ROSE_T2	58	25	-33	0.55	0.4	-0.15	-1.11	-1.11	1	1	0	600	600	0
7/10/2024 17:01	58705	ROSE_T2	13	4	-9	0.47	0.6	0.13	0	0	0	0	0	0	0	0
7/10/2024 17:01	58702	ROSE_T2	18	14	-4	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
7/10/2024 17:01	53802	MBRG_T2	10	4	-6	0.42	0	-0.42	0.37	0.36	0	0	0	0	0	0
7/10/2024 17:01	58706	ROSE_T2	19	17	-2	1.42	0.73	-0.69	0	0	0	0	0	0	0	0
7/10/2024 17:04	53802	MBRG_T2	10	4	-6	0.42	0	-0.42	0.37	0.36	0	0	0	0	0	0
7/10/2024 17:04	58702	ROSE_T2	18	14	-4	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
7/10/2024 17:04	58706	ROSE_T2	19	17	-2	1.42	0.73	-0.69	0.63	0.5	1	1	0	600	600	0
7/10/2024 17:04	58701	ROSE_T2	58	25	-33	0.55	0.4	-0.15	-1.11	-1.11	1	1	0	600	600	0
7/10/2024 17:04	58705	ROSE_T2	13	4	-9	0.47	0.6	0.13	0	0	0	0	0	0	0	0
7/10/2024 17:05	58701	ROSE_T2	58	25	-33	0.55	0.4	-0.15	-2.22	-2.22	2	2	0	1200	1200	0
7/10/2024 17:05	58706	ROSE_T2	19	17	-2	1.42	0.73	-0.69	0	0	0	0	0	0	0	0
7/10/2024 17:05	58702	ROSE_T2	18	14	-4	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
7/10/2024 17:05	58705	ROSE_T2	13	4	-9	0.47	0.6	0.13	0	0	0	0	0	0	0	0
7/10/2024 17:05	66504	SMAN_T2	41	42	1	0.62	0.79	0.17	1	0.98	0	0	0	0	0	0
7/10/2024 17:05	66503	SMAN_T2	40	27	-13	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
7/10/2024 17:05	66505	SMAN_T2	234	224	-10	0.99	0.86	-0.13	0	0	0	0	0	0	0	0
7/10/2024 17:06	53802	MBRG_T2	10	4	-6	0.42	0	-0.42	0.37	0.36	0	0	0	0	0	0
7/10/2024 17:08	54501	ENOL_T2	1	0	-1	0.3	0	-0.3	-0.54	-0.47	2	2	0	1500	1500	0
7/10/2024 17:08	67602	WARW_T2	11	24	13	1.06	0	-1.06	0	0	0	0	0	0	0	0
7/10/2024 17:08	54503	ENOL_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/10/2024 17:08	67601	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 17:09	56504	ROCK_T2	120	101	-19	0.66	0.7	0.04	0.82	0.8	0	0	0	0	0	0
7/10/2024 17:09	56503	ROCK_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/10/2024 17:09	56501	ROCK_T2	10	5	-5	0.73	0.33	-0.4	0	0	0	0	0	0	0	0
7/10/2024 17:10	54501	ENOL_T2	1	0	-1	0.3	0	-0.3	-0.54	-0.47	2	2	0	1500	1500	0
7/10/2024 17:10	54503	ENOL_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/10/2024 17:11	56504	ROCK_T2	120	101	-19	0.66	0.7	0.04	0.82	0.8	0	0	0	0	0	0
7/10/2024 17:11	54602	SUMM_T2	49	13	-36	0.41	0.6	0.19	0	0	0	0	0	0	0	0
7/10/2024 17:11	56503	ROCK_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/10/2024 17:11	54601	SUMM_T2	41	23	-18	0.76	0.5	-0.26	0	0	3	3	0	3000	3000	0
7/10/2024 17:11	56501	ROCK_T2	10	5	-5	0.73	0.33	-0.4	0	0	0	0	0	0	0	0
7/10/2024 17:11	54603	SUMM_T2	56	5	-51	0.38	0.2	-0.18	0	0	0	0	0	0	0	0
7/10/2024 17:12	54602	SUMM_T2	49	13	-36	0.41	0.6	0.19	0	0	0	0	0	0	0	0
7/10/2024 17:12	54603	SUMM_T2	56	5	-51	0.38	0.2	-0.18	0	0	0	0	0	0	0	0
7/10/2024 17:12	54601	SUMM_T2	41	23	-18	0.76	0.5	-0.26	0	0	3	3	0	3000	3000	0
7/10/2024 17:13	54602	SUMM_T2	49	13	-36	0.41	0.6	0.19	0	0	0	0	0	0	0	0
7/10/2024 17:13	54603	SUMM_T2	56	5	-51	0.38	0.2	-0.18	0	0	0	0	0	0	0	0
7/10/2024 17:13	54601	SUMM_T2	41	23	-18	0.76	0.5	-0.26	0	0	3	3	0	3000	3000	0
7/10/2024 17:14	63401	HONY_T1	1	0	-1	2	0	-2	0.64	0.64	1	1	0	600	600	0
7/10/2024 17:15	40101	HUNT_T2	467	617	150	0.77	0.99	0.22	-1.06	-1.05	0	0	0	0	0	0
7/10/2024 17:16	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 17:16	64204	KINZ_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/10/2024 17:16	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:16	64202	KINZ_T1	7	5	-2	0.79	0.9	0.11	0	0	0	0	0	0	0	0
7/10/2024 17:17	13902	SEID_T1	16	16	0	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
7/10/2024 17:17	13904	SEID_T1	106	133	27	1.54	1.29	-0.25	-0.21	-0.18	0	0	0	0	0	0
7/10/2024 17:17	64202	KINZ_T1	7	5	-2	0.79	0.9	0.11	0	0	0	0	0	0	0	0
7/10/2024 17:17	13903	SEID_T1	50	64	14	0.96	1.13	0.17	0	0	0	0	0	0	0	0
7/10/2024 17:17	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 17:17	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:17	64204	KINZ_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/10/2024 17:19	64202	KINZ_T1	7	5	-2	0.79	0.9	0.11	0	0	0	0	0	0	0	0
7/10/2024 17:19	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:19	64204	KINZ_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/10/2024 17:19	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 17:20	51004	NHAR_T1	18	15	-3	0.87	1.35	0.48	-2.12	-2.07	0	0	0	0	0	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64203	KINZ_T1	2	2	0	1.6	1.2	-0.4	-0.64	-0.62	3	3	0	2100	2100	0
7/10/2024 17:20	64202	KINZ_T1	7	5	-2	0.79	0.9	0.11	0	0	0	0	0	0	0	0
7/10/2024 17:20	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 17:20	51003	NHAR_T1	11	6	-5	0.29	0.18	-0.11	0	0	0	0	0	0	0	0
7/10/2024 17:20	64204	KINZ_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/10/2024 17:21	57702	PAXT_T1	10	11	1	0.54	0.35	-0.19	-0.1	-0.08	0	0	0	0	0	0
7/10/2024 17:22	67602	WARW_T2	9	1	-8	0.92	0	-0.92	-0.47	-0.16	2	1	-1	1500	1200	-300
7/10/2024 17:23	57401	SPAN_T1	51	13	-38	0.41	0.25	-0.16	0	0	0	0	0	0	0	0
7/10/2024 17:23	67602	WARW_T2	9	1	-8	0.92	0	-0.92	-0.47	-0.16	2	1	-1	1500	1200	-300
7/10/2024 17:23	57403	SPAN_T1	11	7	-4	0.57	0.62	0.05	0.09	0.11	0	0	0	0	0	0
7/10/2024 17:25	57401	SPAN_T1	51	13	-38	0.41	0.25	-0.16	0	0	0	0	0	0	0	0
7/10/2024 17:25	57403	SPAN_T1	11	7	-4	0.57	0.62	0.05	0.09	0.11	0	0	0	0	0	0
7/10/2024 17:27	57401	SPAN_T1	51	13	-38	0.41	0.25	-0.16	0	0	0	0	0	0	0	0
7/10/2024 17:27	57403	SPAN_T1	11	7	-4	0.57	0.62	0.05	0.09	0.11	0	0	0	0	0	0
7/10/2024 17:29	22101	EDEL_T2	0	7	7	0	0.64	0.64	2.01	1.9	1	1	0	1200	1200	0
7/10/2024 17:31	58402	MORO_T1	27	8	-19	0.65	0.8	0.15	-0.79	-1.14	4	4	0	2850	3000	150
7/10/2024 17:31	58401	MORO_T1	15	23	8	0.64	0.6	-0.04	0	0	0	0	0	0	0	0
7/10/2024 17:32	57104	SPHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 17:32	57103	SPHI_T2	0	0	0	0	0	0	-0.42	-0.39	1	1	0	600	600	0
7/10/2024 17:32	45802	HEGI_T2	151	84	-67	1.08	0.73	-0.35	0.4	0.21	2	2	0	1200	1200	0
7/10/2024 17:32	57101	SPHI_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
7/10/2024 17:33	48302	ORWI_T2	257	241	-16	1.45	1.27	-0.18	0	0	0	0	0	0	0	0
7/10/2024 17:33	48303	ORWI_T2	3	0	-3	0.17	0	-0.17	1.18	1.16	0	0	0	0	0	0
7/10/2024 17:33	48301	ORWI_T1	15	11	-4	0.83	1.62	0.79	-0.34	-0.36	1	1	0	900	900	0
7/10/2024 17:34	52503	PROG_T2	0	0	0	0	0	0	0.55	0.46	1	1	0	900	900	0
7/10/2024 17:35	48301	ORWI_T1	15	11	-4	0.83	1.62	0.79	-0.34	-0.36	1	1	0	900	900	0
7/10/2024 17:36	48303	ORWI_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
7/10/2024 17:36	48302	ORWI_T2	257	241	-16	1.45	1.27	-0.18	0.29	0.27	0	0	0	0	0	0
7/10/2024 17:37	52503	PROG_T2	0	0	0	0	0	0	0.46	0.48	1	1	0	900	900	0
7/10/2024 17:38	41903	REED_T1	1	0	-1	0.2	0	-0.2	0.64	0.62	1	1	0	1200	1200	0
7/10/2024 17:38	41901	REED_T1	54	44	-10	0.56	0.79	0.23	0	0	0	0	0	0	0	0
7/10/2024 17:38	41902	REED_T1	203	324	121	0.98	0.79	-0.19	0	0	0	0	0	0	0	0
7/10/2024 17:39	43301	WATS_T2	6	11	5	0.53	0.8	0.27	0	0	0	0	0	0	0	0
7/10/2024 17:39	43304	WATS_T2	148	167	19	1.2	0.84	-0.36	-0.62	-0.67	1	1	0	600	600	0
7/10/2024 17:41	67803	WLAN_T1	0	0	0	0	0	0	-0.8	-0.76	0	0	0	0	0	0
7/10/2024 17:41	67802	WLAN_T1	3	0	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
7/10/2024 17:41	67801	WLAN_T1	200	122	-78	0.71	0.81	0.1	0	0	0	0	0	0	0	0
7/10/2024 17:41	67804	WLAN_T1	10	11	1	3.29	2.18	-1.11	0	0	0	0	0	0	0	0
7/10/2024 17:42	62105	ELAN_T1	4	6	2	0.33	0.9	0.57	0	0	0	0	0	0	0	0
7/10/2024 17:42	62104	ELAN_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
7/10/2024 17:42	62102	ELAN_T1	0	1	1	0	0	0	0.37	0.33	0	0	0	0	0	0
7/10/2024 17:44	22901	HARW_T1	30	45	15	0.6	1.08	0.48	-0.02	0.19	1	1	0	1200	1200	0
7/10/2024 17:44	22903	HARW_T1	23	22	-1	1.88	1.46	-0.42	0	0	0	0	0	0	0	0
7/10/2024 17:44	22905	HARW_T1	29	56	27	0.67	0.47	-0.2	0	0	0	0	0	0	0	0
7/10/2024 17:45	22903	HARW_T1	22	22	0	1.55	0.86	-0.69	0	0	0	0	0	0	0	0
7/10/2024 17:45	22905	HARW_T1	49	37	-12	0.68	0.39	-0.29	0	0	0	0	0	0	0	0
7/10/2024 17:45	22901	HARW_T1	42	36	-6	0.95	1.14	0.19	-0.02	0.19	1	1	0	1200	1200	0
7/10/2024 17:46	64902	MILL_T2	0	0	0	0	0	0	-0.07	-0.07	1	1	0	900	900	0
7/10/2024 17:46	64903	MILL_T2	1	19	18	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
7/10/2024 17:47	61703	ELIZ_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/10/2024 17:47	26401	INOR_T1	114	96	-18	0.99	0.55	-0.44	0	0	0	0	0	0	0	0
7/10/2024 17:47	61701	ELIZ_T1	1	1	0	1.8	1.8	0	1.77	1.89	0	0	0	0	0	0
7/10/2024 17:47	26402	INOR_T1	98	117	19	0.61	0.5	-0.11	-1.34	-1.4	2	2	0	900	900	0
7/10/2024 17:48	65904	SAKR_T2	5	2	-3	0.72	0.55	-0.17	-0.94	-0.95	3	3	0	1500	1500	0
7/10/2024 17:48	65903	SAKR_T2	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
7/10/2024 17:48	65902	SAKR_T2	2	3	1	0.85	0.6	-0.25	0	0	0	0	0	0	0	0
7/10/2024 17:48	65901	SAKR_T2	9	7	-2	0.74	2.2	1.46	0	0	0	0	0	0	0	0
7/10/2024 17:49	27603	PIRI_T2	1	1	0	2.7	1.8	-0.9	0	0	0	0	0	0	0	0
7/10/2024 17:49	27605	PIRI_T2	949	920	-29	1.57	1.39	-0.18	1.97	1.95	0	0	0	0	0	0
7/10/2024 17:50	65901	SAKR_T2	9	7	-2	0.74	2.2	1.46	0	0	0	0	0	0	0	0
7/10/2024 17:50	65902	SAKR_T2	2	3	1	0.85	0.6	-0.25	0	0	0	0	0	0	0	0
7/10/2024 17:50	65904	SAKR_T2	5	2	-3	0.72	0.55	-0.17	-2.82	-2.86	9	9	0	4500	4500	0
7/10/2024 17:50	65903	SAKR_T2	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
7/10/2024 17:53	53802	MBRG_T2	2	4	2	0.15	0	-0.15	0.43	0.38	0	0	0	0	0	0
7/10/2024 17:53	53801	MBRG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/10/2024 17:59	46602	LACR_T1	6	11	5	0.3	0.25	-0.05	-0.3	-0.33	0	0	0	0	0	0
7/10/2024 18:05	13904	SEID_T1	123	108	-15	1.33	1.25	-0.08	-0.17	-0.16	0	0	0	0	0	0
7/10/2024 18:05	13903	SEID_T1	50	41	-9	1.13	1.09	-0.04	0	0	0	0	0	0	0	0
7/10/2024 18:05	13902	SEID_T1	10	0	-10	0.46	0	-0.46	0	0	0	0	0	0	0	0
7/10/2024 18:05	13905	SEID_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/10/2024 18:07	64101	REFR_T1	5	13	8	0.34	0.65	0.31	-0.15	-0.11	0	0	0	0	0	0
7/10/2024 18:16	64203	KINZ_T1	1	0	-1	0.4	0	-0.4	-1.01	-1.06	3	3	0	2100	2100	0
7/10/2024 18:16	64204	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/10/2024 18:16	64202	KINZ_T1	16	17	1	0.51	0.37	-0.14	0	0	0	0	0	0	0	0
7/10/2024 18:19	64704	LITI_T1	4	0	-4	0.38	0	-0.38	0	0	0	0	0	0	0	0
7/10/2024 18:19	64701	LITI_T1	27	24	-3	2.64	2.15	-0.49	0.98	1	2	2	0	1800	1800	0
7/10/2024 18:20	12602	MACA_T1	33	36	3	1.35	1.96	0.61	0	0	0	0	0	0	0	0
7/10/2024 18:20	12601	MACA_T1	8	11	3	1.43	1.52	0.09	1.83	1.88	0	0	0	0	0	0
7/10/2024 18:20	12605	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 18:20	12603	MACA_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/10/2024 18:20	12606	MACA_T1	85	79	-6	1.77	2.04	0.27	0	0	0	0	0	0	0	0
7/10/2024 18:24	45602	WOOL_T1	49	77	28	0.4	0.65	0.25	2.08	2.08	0	0	0	0	0	0
7/10/2024 18:26	45602	WOOL_T1	49	77	28	0.4	0.65	0.25	1.04	1.04	0	0	0	0	0	0
7/10/2024 18:28	40802	EXCH_T2	2	3	1	0.1	0.13	0.03	-0.54	0.11	0	0	0	0	0	0
7/10/2024 18:28	40801	EXCH_T2	3	4	1	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
7/10/2024 18:29	63401	HONY_T1	0	0	0	0	0	0	0.49	0.63	1	1	0	600	600	0
7/10/2024 18:30	40801	EXCH_T2	4	3	-1	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
7/10/2024 18:30	40802	EXCH_T2	3	0	-3	0.13	0	-0.13	-0.54	0.11	0	0	0	0	0	0
7/10/2024 18:31	64202	KINZ_T1	3	17	14	0.37	0.5	0.13	0	0	0	0	0	0	0	0
7/10/2024 18:31	64201	KINZ_T1	0	0	0	0	0	0	-1.15	-1.05	5	5	0	3300	3300	0
7/10/2024 18:31	64204	KINZ_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
7/10/2024 18:34	55105	WERT_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 18:34	55101	WERT_T1	113	166	53	0.81	0.58	-0.23	-1.25	-1.36	4	4	0	3300	3300	0
7/10/2024 18:34	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 18:52	14601	SWHI_T1	2	2	0	0.85	0	-0.85	0	0	0	0	0	0	0	0
7/10/2024 18:52	14603	SWHI_T1	2	3	1	0.85	0	-0.85	-0.01	-0.01	2	2	0	1200	1200	0
7/10/2024 18:52	14605	SWHI_T1	11	25	14	0.45	0.53	0.08	0	0	0	0	0	0	0	0
7/10/2024 18:55	55001	NEWP_T1	37	36	-1	0.52	0.52	0	-1.01	-0.98	0	0	0	0	0	0
7/10/2024 18:59	47001	HUGH_T2	4	3	-1	4.18	6.73	2.55	-0.65	-0.61	1	1	0	900	900	0
7/10/2024 18:59	47002	HUGH_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/10/2024 19:00	40101	HUNT_T2	507	422	-85	1	0.86	-0.14	-1.08	-1.06	0	0	0	0	0	0
7/10/2024 19:01	26402	INOR_T1	8	38	30	0.54	0.57	0.03	0	0	0	0	0	0	0	0
7/10/2024 19:01	26401	INOR_T1	14	28	14	0.81	0.66	-0.15	1.46	1.39	0	0	0	0	0	0
7/10/2024 19:02	57106	SPHI_T2	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0	0
7/10/2024 19:02	57103	SPHI_T2	0	0	0	0	0	0	-0.44	0.22	1	1	0	600	600	0
7/10/2024 19:02	57101	SPHI_T2	5	0	-5	0.18	0	-0.18	0	0	0	0	0	0	0	0
7/10/2024 19:04	40603	PIGR_T1	63	68	5	1.33	1.4	0.07	0	0	0	0	0	0	0	0
7/10/2024 19:04	40602	PIGR_T1	5	12	7	0.7	0.63	-0.07	-0.61	-0.6	1	1	0	600	600	0
7/10/2024 19:04	40601	PIGR_T1	6	10	4	0.45	0.5	0.05	0	0	0	0	0	0	0	0
7/10/2024 19:11	55101	WERT_T1	50	18	-32	0.58	0.73	0.15	-1.53	-1.62	4	4	0	3300	3300	0
7/10/2024 19:11	55105	WERT_T1	0	58	58	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 19:14	24102	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 19:14	24101	EHAZ_T1	2	26	24	1.25	0.17	-1.08	0	0	0	0	0	0	0	0
7/10/2024 19:14	24105	EHAZ_T1	4	4	0	6.48	6.2	-0.28	0	0	0	0	0	0	0	0
7/10/2024 19:14	24104	EHAZ_T1	3	1	-2	0.1	0.1	0	-1.81	-1.84	1	1	0	1200	1200	0
7/10/2024 19:15	55101	WERT_T1	18	18	0	0.77	0.72	-0.05	-1.53	-1.62	4	4	0	3300	3300	0
7/10/2024 19:15	55105	WERT_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/10/2024 19:17	22002	BOHE_T1	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
7/10/2024 19:19	52504	PROG_T1	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
7/10/2024 19:19	48303	ORWI_T2	0	0	0	0	0	0	1.11	1.03	0	0	0	0	0	0
7/10/2024 19:19	29402	BELT_T1	4	5	1	2.18	2.7	0.52	0	0	0	0	0	0	0	0
7/10/2024 19:19	52501	PROG_T1	0	2	2	0	0.2	0.2	-0.21	-0.27	1	1	0	300	300	0
7/10/2024 19:19	48302	ORWI_T2	81	72	-9	0.97	0.64	-0.33	0.34	0.28	0	0	0	0	0	0
7/10/2024 19:19	29401	BELT_T1	6	0	-6	0.32	0	-0.32	0	0	1	1	0	900	900	0
7/10/2024 19:25	42501	ALTA_T2	0	0	0	0	0	0	-0.5	-0.46	1	1	0	600	600	0
7/10/2024 19:27	24902	WHHA_T1	10	36	26	0.57	0.56	-0.01	0	0	0	0	0	0	0	0
7/10/2024 19:27	24901	WHHA_T1	0	1	1	0	0.2	0.2	-0.13	-0.16	0	0	0	0	0	0
7/10/2024 19:32	61505	EPET_T1	0	0	0	0	0	0	1.1	1.07	0	0	0	0	0	0
7/10/2024 19:43	17401	FOHI_T1	2	2	0	0.65	0.7	0.05	-1.16	-1.18	0	0	0	0	0	0
7/10/2024 19:47	64903	MILL_T2	32	3	-29	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/10/2024 19:47	64902	MILL_T2	0	0	0	0	0	0	-0.18	-0.21	1	1	0	900	900	0
7/10/2024 19:55	61102	BERK_T5	0	0	0	0	0	0	-0.15	-0.15	2	2	0	1500	1500	0
7/10/2024 19:57	61304	EARL_T1	0	0	0	0	0	0	0.57	0.48	1	1	0	600	600	0
7/10/2024 20:00	41902	REED_T1	82	49	-33	0.68	0.5	-0.18	0.91	-0.01	1	1	0	900	900	0
7/10/2024 20:00	41901	REED_T1	15	15	0	0.5	0.74	0.24	0	0	0	0	0	0	0	0
7/10/2024 20:01	59101	WALK_T2	41	4	-37	0.61	0	-0.61	1.15	0.43	2	1	-1	1200	600	-600
7/10/2024 20:09	52403	GRPA_T2	53	57	4	1.1	0.64	-0.46	0	0	0	0	0	0	0	0
7/10/2024 20:09	52402	GRPA_T2	12	11	-1	0.79	0.22	-0.57	-0.32	-0.43	0	0	0	0	0	0
7/10/2024 20:09	52404	GRPA_T2	11	4	-7	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/10/2024 20:09	45802	HEGI_T2	58	25	-33	0.88	1.01	0.13	0.27	0.61	2	2	0	1200	1200	0
7/10/2024 20:09	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/10/2024 20:54	55101	WERT_T1	5	0	-5	0.42	0	-0.42	-2.1	-2.22	4	4	0	3300	3300	0
7/10/2024 20:54	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 20:59	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 20:59	55101	WERT_T1	5	0	-5	0.42	0	-0.42	-2.1	-2.22	4	4	0	3300	3300	0
7/10/2024 21:04	40602	PIGR_T1	16	26	10	0.54	0.57	0.03	0	0	0	0	0	0	0	0
7/10/2024 21:04	40601	PIGR_T1	5	52	47	0.64	0.48	-0.16	-0.27	0.2	0	0	0	0	0	0
7/10/2024 21:04	40603	PIGR_T1	66	77	11	1.21	1.13	-0.08	0	0	0	0	0	0	0	0
7/10/2024 21:04	45802	HEGI_T2	152	41	-111	1.22	0.59	-0.63	0.69	0.21	2	2	0	1200	1200	0
7/10/2024 21:05	40601	PIGR_T1	5	52	47	0.64	0.48	-0.16	0	0	0	0	0	0	0	0
7/10/2024 21:05	40603	PIGR_T1	66	77	11	1.21	1.13	-0.08	0.95	-1.15	0	0	0	0	0	0
7/10/2024 21:05	40602	PIGR_T1	16	26	10	0.54	0.57	0.03	-0.73	0.07	1	0	-1	600	0	-600
7/10/2024 21:06	40601	PIGR_T1	5	52	47	0.64	0.48	-0.16	0	0	0	0	0	0	0	0
7/10/2024 21:06	40603	PIGR_T1	66	77	11	1.21	1.13	-0.08	0	0	0	0	0	0	0	0
7/10/2024 21:06	40602	PIGR_T1	16	26	10	0.54	0.57	0.03	-0.73	0.07	1	0	-1	600	0	-600
7/10/2024 21:09	56802	BENV_T2	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
7/10/2024 21:13	56802	BENV_T2	0	0	0	0	0	0	-1.18	-1.21	0	0	0	0	0	0
7/10/2024 21:17	56802	BENV_T2	0	27	27	0	0	0	-0.59	-0.61	0	0	0	0	0	0
7/10/2024 21:21	49804	UNIV_T1	1	1	0	0.5	0	-0.5	0.39	1.28	0	0	0	0	0	0
7/10/2024 21:22	46301	ROHR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 21:22	49804	UNIV_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/10/2024 21:22	46302	ROHR_T1	2	4	2	0.45	0.38	-0.07	0.5	1.29	0	0	0	0	0	0
7/10/2024 21:22	49803	UNIV_T1	0	0	0	0	0	0	-0.93	-1.62	0	0	0	0	0	0
7/10/2024 21:25	49804	UNIV_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/10/2024 21:25	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 21:25	49803	UNIV_T1	0	0	0	0	0	0	-0.93	-1.62	0	0	0	0	0	0
7/10/2024 21:25	57401	SPAN_T1	60	22	-38	0.43	0.22	-0.21	-0.51	-0.68	1	1	0	600	600	0
7/10/2024 21:33	57101	SPHI_T2	0	6	6	0	0.37	0.37	0	0	0	0	0	0	0	0
7/10/2024 21:33	57103	SPHI_T2	0	0	0	0	0	0	-0.06	-0.07	1	1	0	600	600	0
7/10/2024 21:33	57106	SPHI_T2	3	3	0	0.57	0.7	0.13	0	0	0	0	0	0	0	0
7/10/2024 21:34	58302	NOTT_T1	0	0	0	0	0	0	-1.01	-1.05	2	2	0	2100	2100	0
7/10/2024 21:36	44801	EDAN_T2	4	3	-1	1.13	1	-0.13	0.95	0.98	0	0	0	0	0	0
7/10/2024 21:38	52402	GRPA_T2	6	3	-3	0.78	0.7	-0.08	0	0	0	0	0	0	0	0
7/10/2024 21:38	52403	GRPA_T2	71	41	-30	1.09	0.57	-0.52	0	0	0	0	0	0	0	0
7/10/2024 21:38	52401	GRPA_T2	2	1	-1	0.1	0.2	0.1	-0.18	-0.07	0	0	0	0	0	0
7/10/2024 21:41	56802	BENV_T2	0	9	9	0	9.81	9.81	-0.63	-0.72	0	0	0	0	0	0
7/10/2024 21:53	56501	ROCK_T2	50	150	100	0.19	0.34	0.15	-2.11	-2.19	0	0	0	0	0	0
7/10/2024 21:53	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 21:54	43402	BENT_T1	0	8	8	0	0	0	-0.8	-0.78	1	1	0	900	900	0
7/10/2024 21:54	44301	BEAV_T2	2	1	-1	0.55	0.1	-0.45	0.07	-0.04	1	1	0	600	600	0
7/10/2024 21:54	44302	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 21:54	52004	LING_T2	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
7/10/2024 21:54	43401	BENT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/10/2024 21:57	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 21:57	56501	ROCK_T2	50	150	100	0.19	0.34	0.15	0	0	0	0	0	0	0	0
7/10/2024 21:57	56504	ROCK_T2	0	0	0	0	0	0	0.82	0.61	0	0	0	0	0	0
7/10/2024 21:58	56504	ROCK_T2	0	0	0	0	0	0	0.41	0.3	0	0	0	0	0	0
7/10/2024 21:58	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 21:58	26402	INOR_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 21:58	56501	ROCK_T2	50	150	100	0.19	0.34	0.15	0	0	0	0	0	0	0	0
7/10/2024 21:58	26401	INOR_T1	2	2	0	2.55	3.45	0.9	1.11	1.12	0	0	0	0	0	0
7/10/2024 21:59	40901	JESH_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
7/10/2024 21:59	53902	HALI_T2	1	1	0	4.5	4.8	0.3	-0.54	-0.59	0	0	0	0	0	0
7/10/2024 21:59	53903	HALI_T2	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
7/10/2024 21:59	13503	MCMI_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
7/10/2024 21:59	40902	JESH_T1	0	0	0	0	0	0	-0.7	-0.7	1	1	0	600	600	0
7/10/2024 22:00	43402	BENT_T1	0	0	0	0	0	0	-0.8	-0.78	1	1	0	900	900	0
7/10/2024 22:00	52004	LING_T2	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
7/10/2024 22:00	53902	HALI_T2	1	1	0	4.8	3.9	-0.9	-0.54	-0.59	0	0	0	0	0	0
7/10/2024 22:00	53903	HALI_T2	2	0	-2	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/10/2024 22:02	13503	MCMI_T2	0	3	3	0	0.1	0.1	-0.45	-0.46	0	0	0	0	0	0
7/10/2024 22:03	56501	ROCK_T2	149	4	-145	0.34	0.23	-0.11	0	0	0	0	0	0	0	0
7/10/2024 22:03	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:03	56504	ROCK_T2	0	0	0	0	0	0	0.41	0.3	0	0	0	0	0	0
7/10/2024 22:04	53903	HALI_T2	2	0	-2	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/10/2024 22:04	15704	TANN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:04	43201	MVIL_T2	0	5	5	0	0.15	0.15	0	0	0	0	0	0	0	0
7/10/2024 22:04	43202	MVIL_T2	2	2	0	0.65	0	-0.65	-0.9	-0.98	0	0	0	0	0	0
7/10/2024 22:04	53902	HALI_T2	1	1	0	4.8	3.9	-0.9	-0.54	-0.59	0	0	0	0	0	0
7/10/2024 22:04	15701	TANN_T1	1	1	0	4.5	4.6	0.1	0	0	0	0	0	0	0	0
7/10/2024 22:06	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:06	56501	ROCK_T2	149	4	-145	0.34	0.23	-0.11	0	0	0	0	0	0	0	0
7/10/2024 22:06	53903	HALI_T2	2	0	-2	0.8	0	-0.8	0.08	0.05	0	0	0	0	0	0
7/10/2024 22:06	53902	HALI_T2	1	1	0	4.8	3.9	-0.9	0	0	0	0	0	0	0	0
7/10/2024 22:06	56504	ROCK_T2	0	0	0	0	0	0	0.41	0.3	0	0	0	0	0	0
7/10/2024 22:07	29402	BELT_T1	1	1	0	9.1	7.9	-1.2	0	0	0	0	0	0	0	0
7/10/2024 22:07	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	1	1	0	900	900	0
7/10/2024 22:08	25402	LAHA_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
7/10/2024 22:10	56802	BENV_T2	0	0	0	0	0	0	-0.81	-0.79	0	0	0	0	0	0
7/10/2024 22:10	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/10/2024 22:10	53802	MBRG_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 22:10	29402	BELT_T1	1	1	0	9.1	7.9	-1.2	0	0	0	0	0	0	0	0
7/10/2024 22:10	53803	MBRG_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
7/10/2024 22:12	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:12	13503	MCMI_T2	0	3	3	0	0.1	0.1	-0.46	-0.5	0	0	0	0	0	0
7/10/2024 22:12	26402	INOR_T1	0	0	0	0	0	0	-1.41	-1.45	1	1	0	600	600	0
7/10/2024 22:12	61701	ELIZ_T1	1	1	0	3.9	4	0.1	1.5	1.34	0	0	0	0	0	0
7/10/2024 22:12	26401	INOR_T1	2	2	0	3.45	6.6	3.15	1.12	1.07	0	0	0	0	0	0
7/10/2024 22:12	47901	HRDG_T1	0	0	0	0	0	0	1.7	1.83	1	1	0	1200	1200	0
7/10/2024 22:14	46203	DANV_T2	4	6	2	0.13	0.37	0.24	-0.94	-1.06	0	0	0	0	0	0
7/10/2024 22:14	12401	MILF_T1	0	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0
7/10/2024 22:14	46204	DANV_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 22:14	12402	MILF_T1	15	13	-2	0.49	0.23	-0.26	0.43	0.42	1	1	0	1200	1200	0
7/10/2024 22:14	46206	DANV_T2	35	16	-19	0.44	0.61	0.17	0	0	0	0	0	0	0	0
7/10/2024 22:14	46101	MACI_T2	0	0	0	0	0	0	0.82	-0.33	0	1	1	0	1200	1200
7/10/2024 22:14	45302	WBER_T2	0	0	0	0	0	0	1.54	1.45	0	0	0	0	0	0
7/10/2024 22:14	45303	WBER_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 22:14	29402	BELT_T1	1	1	0	9.1	7.9	-1.2	0	0	0	0	0	0	0	0
7/10/2024 22:14	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	1	1	0	900	900	0
7/10/2024 22:15	58803	COCO_T1	1	1	0	0.5	0.9	0.4	-0.61	-0.68	1	1	0	600	600	0
7/10/2024 22:15	29402	BELT_T1	1	1	0	7.9	8	0.1	0	0	0	0	0	0	0	0
7/10/2024 22:15	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/10/2024 22:16	24902	WHHA_T1	3	1	-2	0.27	0	-0.27	0.48	0.47	0	0	0	0	0	0
7/10/2024 22:16	41304	FISH_T2	1	1	0	0	0	0	-0.2	-0.28	0	0	0	0	0	0
7/10/2024 22:16	41302	FISH_T2	16	16	0	2.13	1.41	-0.72	0	0	0	0	0	0	0	0
7/10/2024 22:16	60803	BUCK_T1	0	0	0	0	0	0	-0.18	-0.18	1	1	0	600	600	0
7/10/2024 22:17	41302	FISH_T2	16	16	0	2.13	1.41	-0.72	0	0	0	0	0	0	0	0
7/10/2024 22:17	22903	HARW_T1	7	10	3	0.46	0.61	0.15	0	0	0	0	0	0	0	0
7/10/2024 22:17	64203	KINZ_T1	0	0	0	0	0	0	-1.33	-1.32	3	3	0	2100	2100	0
7/10/2024 22:17	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:17	41304	FISH_T2	1	1	0	0	0	0	-0.2	-0.28	0	0	0	0	0	0
7/10/2024 22:17	48301	ORWI_T1	2	2	0	5.3	5.65	0.35	-1.53	-1.67	3	3	0	2700	2700	0
7/10/2024 22:17	53903	HALI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/10/2024 22:17	22901	HARW_T1	16	5	-11	0.58	0	-0.58	-0.18	-0.24	3	3	0	3600	3600	0
7/10/2024 22:17	14801	TREI_T2	191	181	-10	1.79	0.9	-0.89	0	0	0	0	0	0	0	0
7/10/2024 22:17	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
7/10/2024 22:17	22905	HARW_T1	16	34	18	0.71	0.45	-0.26	0	0	0	0	0	0	0	0
7/10/2024 22:17	27605	PIRI_T2	251	122	-129	1.17	0.84	-0.33	1.5	1.31	0	0	0	0	0	0
7/10/2024 22:17	25503	MADI_T1	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
7/10/2024 22:17	27603	PIRI_T2	1	1	0	2.3	0	-2.3	0	0	0	0	0	0	0	0
7/10/2024 22:17	53902	HALI_T2	1	1	0	3.7	4.1	0.4	-0.59	-0.64	0	0	0	0	0	0
7/10/2024 22:18	58803	COCO_T1	1	1	0	0.5	0.9	0.4	-0.61	-0.68	1	1	0	600	600	0
7/10/2024 22:18	64302	LINC_T2	0	0	0	0	0	0	0.91	0.8	0	0	0	0	0	0
7/10/2024 22:18	22901	HARW_T1	16	5	-11	0.58	0	-0.58	-0.06	-0.08	1	1	0	1200	1200	0
7/10/2024 22:18	46203	DANV_T2	4	6	2	0.25	0.57	0.32	-0.94	-1.06	0	0	0	0	0	0
7/10/2024 22:18	67503	WEWI_T2	8	2	-6	0.68	0	-0.68	0.24	0.21	0	0	0	0	0	0
7/10/2024 22:18	67502	WEWI_T2	2	1	-1	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/10/2024 22:18	22905	HARW_T1	16	34	18	0.71	0.45	-0.26	0	0	0	0	0	0	0	0
7/10/2024 22:18	60801	BUCK_T1	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
7/10/2024 22:18	46206	DANV_T2	10	15	5	0.63	0.62	-0.01	0	0	0	0	0	0	0	0
7/10/2024 22:18	22903	HARW_T1	7	10	3	0.46	0.61	0.15	0	0	0	0	0	0	0	0
7/10/2024 22:18	48302	ORWI_T2	1	1	0	0.9	0	-0.9	-0.23	-0.25	0	0	0	0	0	0
7/10/2024 22:19	66505	SMAN_T2	62	21	-41	0.48	0.34	-0.14	0.25	0.26	4	4	0	2300	2300	0
7/10/2024 22:19	64303	LINC_T1	0	0	0	0	0	0	-0.61	-0.64	0	0	0	0	0	0
7/10/2024 22:19	20603	GRWO_T2	0	0	0	0	0	0	-0.22	-0.26	1	1	0	900	900	0
7/10/2024 22:19	64305	LINC_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
7/10/2024 22:19	41303	FISH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 22:19	40302	TAMA_T3	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
7/10/2024 22:19	66504	SMAN_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
7/10/2024 22:19	41301	FISH_T1	1	1	0	2	1.8	-0.2	-0.3	-0.32	0	0	0	0	0	0
7/10/2024 22:19	42501	ALTA_T2	0	0	0	0	0	0	-0.66	-0.69	1	1	0	600	600	0
7/10/2024 22:19	20601	GRWO_T2	120	99	-21	0.7	0.51	-0.19	0	0	0	0	0	0	0	0
7/10/2024 22:19	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:20	47101	MARL_T1	41	160	119	0.83	1.16	0.33	-1.36	-1.47	2	2	0	1200	1200	0
7/10/2024 22:20	65604	QVIL_T2	1	1	0	0.3	0	-0.3	0.08	0.91	0	0	0	0	0	0
7/10/2024 22:20	14402	SSLA_T1	4	3	-1	0.38	0	-0.38	0	0	0	0	0	0	0	0
7/10/2024 22:20	47104	MARL_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:20	14403	SSLA_T1	4	1	-3	0.43	0.2	-0.23	0.97	0.9	1	1	0	600	600	0
7/10/2024 22:20	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:20	64305	LINC_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
7/10/2024 22:20	14404	SSLA_T1	4	3	-1	0.75	1.7	0.95	0	0	0	0	0	0	0	0
7/10/2024 22:20	64303	LINC_T1	0	0	0	0	0	0	-1.21	-1.27	0	0	0	0	0	0
7/10/2024 22:21	22903	HARW_T1	7	10	3	0.46	0.61	0.15	0	0	0	0	0	0	0	0
7/10/2024 22:21	55402	SHER_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:21	65904	SAKR_T2	0	0	0	0	0	0	-1.04	-1.07	3	3	0	1500	1500	0
7/10/2024 22:21	22905	HARW_T1	16	34	18	0.71	0.45	-0.26	0	0	0	0	0	0	0	0
7/10/2024 22:21	11104	EGYP_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
7/10/2024 22:21	61703	ELIZ_T1	0	0	0	0	0	0	-2.28	-2.35	2	2	0	2100	2100	0
7/10/2024 22:21	65901	SAKR_T2	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
7/10/2024 22:21	11102	EGYP_T1	10	10	0	0.55	0.25	-0.3	0	0	0	0	0	0	0	0
7/10/2024 22:21	40802	EXCH_T2	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
7/10/2024 22:21	12701	MACU_T1	0	0	0	0	0	0	-0.73	-0.75	1	1	0	1200	1200	0
7/10/2024 22:21	61701	ELIZ_T1	1	1	0	3.7	4	0.3	1.34	1.28	0	0	0	0	0	0
7/10/2024 22:21	64302	LINC_T2	0	0	0	0	0	0	0.8	0.74	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/10/2024 22:21	22901	HARW_T1	16	5	-11	0.58	0	-0.58	-0.06	-0.08	1	1	0	1200	1200	0
7/10/2024 22:21	55408	SHER_T2	1	1	0	1.8	2	0.2	-0.51	-0.44	1	1	0	1200	1200	0
7/10/2024 22:21	61702	ELIZ_T2	0	0	0	0	0	0	-1.1	-1.16	2	2	0	1500	1500	0
7/10/2024 22:21	22002	BOHE_T1	0	0	0	0	0	0	0.7	0.63	0	0	0	0	0	0
7/10/2024 22:21	52002	LING_T2	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
7/10/2024 22:22	42201	SHEN_T2	0	0	0	0	0	0	0.47	0.46	1	1	0	600	600	0
7/10/2024 22:22	63804	HEMP_T1	1	1	0	7.4	7	-0.4	0	0	0	0	0	0	0	0
7/10/2024 22:22	27605	PIRI_T2	251	122	-129	1.17	0.84	-0.33	1.31	1.23	0	0	0	0	0	0
7/10/2024 22:22	47104	MARL_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:22	64101	REFR_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
7/10/2024 22:22	67605	WARW_T1	1	3	2	0.9	0.67	-0.23	-1.4	-1.44	0	0	0	0	0	0
7/10/2024 22:22	47101	MARL_T1	41	160	119	0.83	1.16	0.33	-0.74	-0.16	1	1	0	600	600	0
7/10/2024 22:22	27603	PIRI_T2	1	1	0	2.3	0	-2.3	0	0	0	0	0	0	0	0
7/10/2024 22:22	66701	STRA_T1	8	0	-8	0.33	0	-0.33	0.94	0.89	1	1	0	600	600	0
7/10/2024 22:22	64904	MILL_T1	0	0	0	0	0	0	-0.4	-0.46	0	0	0	0	0	0
7/10/2024 22:22	63801	HEMP_T1	0	0	0	0	0	0	0.55	-0.02	1	1	0	900	900	0
7/10/2024 22:22	53802	MBRG_T2	0	0	0	0	0	0	0.15	0.08	0	0	0	0	0	0
7/10/2024 22:22	66703	STRA_T1	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
7/10/2024 22:23	66703	STRA_T1	0	0	0	0	0	0	-1.04	-1.1	0	0	0	0	0	0
7/10/2024 22:23	66701	STRA_T1	8	0	-8	0.33	0	-0.33	0	0	0	0	0	0	0	0
7/10/2024 22:23	13904	SEID_T1	45	55	10	1.14	1	-0.14	-0.34	-0.34	0	0	0	0	0	0
7/10/2024 22:23	48303	ORWI_T2	0	0	0	0	0	0	0.84	0.8	0	0	0	0	0	0
7/10/2024 22:23	43202	MVIL_T2	2	1	-1	0.5	0	-0.5	-0.51	-0.5	0	0	0	0	0	0
7/10/2024 22:23	40101	HUNT_T2	5	1	-4	0.22	0	-0.22	-2.74	-2.77	0	0	0	0	0	0
7/10/2024 22:23	11903	ETEX_T1	0	0	0	0	0	0	1.24	1.21	0	0	0	0	0	0
7/10/2024 22:23	60701	BREC_T1	4	0	-4	0.2	0	-0.2	-0.61	-0.64	2	2	0	1200	1200	0
7/10/2024 22:23	65904	SAKR_T2	0	0	0	0	0	0	-1.04	-1.07	3	3	0	1500	1500	0
7/10/2024 22:23	13903	SEID_T1	22	12	-10	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
7/10/2024 22:23	48302	ORWI_T2	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/10/2024 22:23	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:23	61701	ELIZ_T1	1	1	0	3.7	4	0.3	1.34	1.28	0	0	0	0	0	0
7/10/2024 22:23	65901	SAKR_T2	1	1	0	6.5	6.6	0.1	-0.43	-0.54	2	2	0	1500	1500	0
7/10/2024 22:23	20601	GRWO_T2	120	99	-21	0.7	0.51	-0.19	0.59	0.55	0	0	0	0	0	0
7/10/2024 22:23	62102	ELAN_T1	0	0	0	0	0	0	-0.19	-0.31	0	0	0	0	0	0
7/10/2024 22:23	43201	MVIL_T2	5	3	-2	0.24	0.4	0.16	0	0	0	0	0	0	0	0
7/10/2024 22:24	64203	KINZ_T1	0	0	0	0	0	0	-1.32	-0.35	3	2	-1	2100	900	-1200
7/10/2024 22:24	12801	MICK_T1	0	0	0	0	0	0	-0.55	-0.57	1	1	0	600	600	0
7/10/2024 22:24	64201	KINZ_T1	0	0	0	0	0	0	-0.55	-0.63	4	4	0	2100	2100	0
7/10/2024 22:24	63401	HONY_T1	0	0	0	0	0	0	0.24	0.28	1	1	0	600	600	0
7/10/2024 22:24	60501	NMAN_T2	3	3	0	3.9	4.83	0.93	0	0	0	0	0	0	0	0
7/10/2024 22:24	60502	NMAN_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
7/10/2024 22:24	47101	MARL_T1	41	160	119	0.83	1.16	0.33	-1.47	-0.32	2	2	0	1200	1200	0
7/10/2024 22:24	61701	ELIZ_T1	1	1	0	3.7	4	0.3	0	0	0	0	0	0	0	0
7/10/2024 22:24	67602	WARW_T2	0	0	0	0	0	0	0.14	0	4	4	0	3000	3000	0
7/10/2024 22:24	61703	ELIZ_T1	0	0	0	0	0	0	-2.28	-2.35	2	2	0	2100	2100	0
7/10/2024 22:24	47104	MARL_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:24	65901	SAKR_T2	1	1	0	6.5	6.6	0.1	-0.43	-0.54	2	2	0	1500	1500	0
7/10/2024 22:24	67605	WARW_T1	1	3	2	0.9	0.67	-0.23	-0.7	-0.72	0	0	0	0	0	0
7/10/2024 22:24	61304	EARL_T1	0	13	13	0	0.16	0.16	0.19	0.13	1	1	0	600	600	0
7/10/2024 22:24	61102	BERK_T5	0	0	0	0	0	0	1.38	1.16	4	4	0	3000	3000	0
7/10/2024 22:24	67803	WLAN_T1	0	0	0	0	0	0	-0.68	-0.75	0	0	0	0	0	0
7/10/2024 22:24	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
7/10/2024 22:24	67801	WLAN_T1	16	1	-15	0.36	0	-0.36	0	0	0	0	0	0	0	0
7/10/2024 22:24	52002	LING_T2	0	0	0	0	0	0	0.12	-0.06	0	0	0	0	0	0
7/10/2024 22:24	67804	WLAN_T1	10	10	0	0.9	0.32	-0.58	0	0	0	0	0	0	0	0
7/10/2024 22:25	61102	BERK_T5	0	0	0	0	0	0	1.38	1.16	4	4	0	3000	3000	0
7/10/2024 22:25	60803	BUCK_T1	0	0	0	0	0	0	-0.18	-0.19	1	1	0	600	600	0
7/10/2024 22:25	47104	MARL_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:25	53903	HALI_T2	0	2	2	0	0.1	0.1	0.01	0.01	0	0	0	0	0	0
7/10/2024 22:25	66701	STRA_T1	8	0	-8	0.33	0	-0.33	0.94	0.89	1	1	0	600	600	0
7/10/2024 22:25	64801	MONE_T2	1	0	-1	0.1	0	-0.1	0.05	-0.01	0	0	0	0	0	0
7/10/2024 22:25	67804	WLAN_T1	10	10	0	0.9	0.32	-0.58	0	0	0	0	0	0	0	0
7/10/2024 22:25	67803	WLAN_T1	0	0	0	0	0	0	-0.68	-0.75	0	0	0	0	0	0
7/10/2024 22:25	47101	MARL_T1	41	160	119	0.83	1.16	0.33	-0.74	-0.16	1	1	0	600	600	0
7/10/2024 22:25	60701	BREC_T1	4	0	-4	0.2	0	-0.2	-0.61	-0.64	2	2	0	1200	1200	0
7/10/2024 22:25	21901	HUMB_T1	0	0	0	0	0	0	-1.56	-1.64	0	0	0	0	0	0
7/10/2024 22:25	64203	KINZ_T1	0	0	0	0	0	0	-2.63	-0.7	6	4	-2	4200	1800	-2400
7/10/2024 22:25	60201	ATGL_T2	0	22	22	0	0.19	0.19	-0.03	0.03	1	1	0	300	300	0
7/10/2024 22:25	48302	ORWI_T2	1	1	0	0.9	0	-0.9	-0.12	-0.16	0	0	0	0	0	0
7/10/2024 22:25	66505	SMAN_T2	62	21	-41	0.48	0.34	-0.14	0	0	0	0	0	0	0	0
7/10/2024 22:25	10704	CATA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 22:25	60501	NMAN_T2	3	3	0	3.9	4.83	0.93	0	0	0	0	0	0	0	0
7/10/2024 22:25	56501	ROCK_T2	2	7	5	0.25	0.27	0.02	0	0	0	0	0	0	0	0
7/10/2024 22:25	64903	MILL_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/10/2024 22:25	53902	HALI_T2	1	1	0	3.7	4.1	0.4	-0.64	-0.63	0	0	0	0	0	0
7/10/2024 22:25	64201	KINZ_T1	0	0	0	0	0	0	-0.55	-0.63	4	4	0	2100	2100	0
7/10/2024 22:25	66502	SMAN_T2	0	0	0	0	0	0	-0.61	-0.69	1	1	0	900	900	0
7/10/2024 22:25	60101	COCA_T1	0	0	0	0	0	0	-0.19	-0.25	1	1	0	1200	1200	0
7/10/2024 22:25	55405	SHER_T1	0	2	2	0	0.1	0.1	-0.12	-0.22	0	0	0	0	0	0
7/10/2024 22:25	10705	CATA_T2	0	0	0	0	0	0	-1.1	-1.13	1	1	0	900	900	0
7/10/2024 22:25	67801	WLAN_T1	16	1	-15	0.36	0	-0.36	0	0	0	0	0	0	0	0
7/10/2024 22:25	67605	WARW_T1	1	3	2	0.9	0.67	-0.23	-0.7	-0.72	0	0	0	0	0	0
7/10/2024 22:25	56504	ROCK_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
7/10/2024 22:25	46206	DANV_T2	10	15	5	0.63	0.62	-0.01	0	0	0	0	0	0	0	0
7/10/2024 22:25	66504	SMAN_T2	1	1	0	0.6	0.1	-0.5	-0.33	-0.63	0	0	0	0	0	0
7/10/2024 22:25	46203	DANV_T2	4	6	2	0.25	0.57	0.32	-1.06	-1.09	0	0	0	0	0	0
7/10/2024 22:25	65001	NEFF_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
7/10/2024 22:25	56503	ROCK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/10/2024 22:25	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
7/10/2024 22:25	64902	MILL_T2	0	0	0	0	0	0	-0.47	-0.49	1	1	0	900	900	0
7/10/2024 22:25	61703	ELIZ_T1	0	0	0	0	0	0	-2.28	-2.35	2	2	0	2100	2100	0
7/10/2024 22:25	67703	WERN_T2	2	0	-2	0.3	0	-0.3	-0.01	-0.01	1	1	0	900	900	0
7/10/2024 22:25	60502	NMAN_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
7/10/2024 22:25	61701	ELIZ_T1	1	1	0	3.7	4	0.3	0	0	0	0	0	0	0	0
7/10/2024 22:25	67902	WNHO_T2	0	0	0	0	0	0	0.04	0.03	2	2	0	2100	2100	0
7/10/2024 22:26	64101	REFR_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
7/10/2024 22:26	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
7/10/2024 22:26	61505	EPET_T1	0	0	0	0	0	0	1.52	1.41	0	0	0	0	0	0
7/10/2024 22:26	55402	SHER_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:26	63804	HEMP_T1	1	1	0	7.4	7	-0.4	0	0	0	0	0	0	0	0
7/10/2024 22:26	46102	MACI_T1	0	0	0	0	0	0	1.07	1.04	0	0	0	0	0	0
7/10/2024 22:26	64201	KINZ_T1	0	0	0	0	0	0	0.55	-0.63	4	4	0	2100	2100	0
7/10/2024 22:26	11102	EGYP_T1	10	10	0	0.55	0.25	-0.3	0	0	0	0	0	0	0	0
7/10/2024 22:26	67602	WARW_T2	0	0	0	0	0	0	0.14	0	4	4	0	3000	3000	0
7/10/2024 22:26	13503	MCMI_T2	0	3	3	0	0.1	0.1	-0.5	-0.52	0	0	0	0	0	0
7/10/2024 22:26	16302	ALPA_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
7/10/2024 22:26	47104	MARL_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:26	60701	BREC_T1	4	0	-4	0.2	0	-0.2	-0.61	-0.64	2	2	0	1200	1200	0
7/10/2024 22:26	47101	MARL_T1	41	160	119	0.83	1.16	0.33	-0.74	-0.16	1	1	0	600	600	0
7/10/2024 22:26	64701	LITI_T1	22	11	-11	2.22	1.84	-0.38	0.05	0.03	1	1	0	900	900	0
7/10/2024 22:26	61303	EARL_T1	0	0	0	0	0	0	0.57	0.76	0	0	0	0	0	0
7/10/2024 22:26	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:26	61304	EARL_T1	0	13	13	0	0.16	0.16	0	0	0	0	0	0	0	0
7/10/2024 22:26	60803	BUCK_T1	0	0	0	0	0	0	-0.18	-0.19	1	1	0	600	600	0
7/10/2024 22:26	55408	SHER_T2	1	1	0	1.8	2	0.2	-0.44	-0.55	1	1	0	1200	1200	0
7/10/2024 22:26	63801	HEMP_T1	0	0	0	0	0	0	0.55	-0.02	1	1	0	900	900	0
7/10/2024 22:26	11104	EGYP_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
7/10/2024 22:26	20601	GRWO_T2	120	99	-21	0.7	0.51	-0.19	0.59	0.55	0	0	0	0	0	0
7/10/2024 22:27	67801	WLAN_T1	16	1	-15	0.36	0	-0.36	-0.71	-0.72	0	0	0	0	0	0
7/10/2024 22:27	61102	BERK_T5	0	0	0	0	0	0	2.76	2.32	8	8	0	6000	6000	0
7/10/2024 22:27	41303	FISH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 22:27	63304	GREE_T1	0	0	0	0	0	0	-2.19	-2.25	0	0	0	0	0	0
7/10/2024 22:27	67703	WERN_T2	2	0	-2	0.3	0	-0.3	-0.02	-0.02	2	2	0	1800	1800	0
7/10/2024 22:27	60803	BUCK_T1	0	0	0	0	0	0	-0.18	-0.19	1	1	0	600	600	0
7/10/2024 22:27	62102	ELAN_T1	0	0	0	0	0	0	-0.19	-0.31	0	0	0	0	0	0
7/10/2024 22:27	65904	SAKR_T2	0	0	0	0	0	0	-1.04	-1.07	3	3	0	1500	1500	0
7/10/2024 22:27	66902	SHIL_T2	0	1	1	0	0.2	0.2	-1.38	-1.43	0	0	0	0	0	0
7/10/2024 22:27	47101	MARL_T1	41	160	119	0.83	1.16	0.33	-1.47	-0.32	2	2	0	1200	1200	0
7/10/2024 22:27	64201	KINZ_T1	0	0	0	0	0	0	-0.55	-0.63	4	4	0	2100	2100	0
7/10/2024 22:27	64101	REFR_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
7/10/2024 22:27	60701	BREC_T1	4	0	-4	0.2	0	-0.2	-0.61	-0.64	2	2	0	1200	1200	0
7/10/2024 22:27	66901	SHIL_T2	0	78	78	0	0.15	0.15	0	0	0	0	0	0	0	0
7/10/2024 22:27	65901	SAKR_T2	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
7/10/2024 22:27	24105	EHAZ_T1	4	4	0	5.93	5.83	-0.1	0	0	0	0	0	0	0	0
7/10/2024 22:27	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
7/10/2024 22:27	24101	EHAZ_T1	11	0	-11	0.31	0	-0.31	0	0	0	0	0	0	0	0
7/10/2024 22:27	67804	WLAN_T1	10	10	0	0.9	0.32	-0.58	0	0	0	0	0	0	0	0
7/10/2024 22:27	47104	MARL_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:27	41301	FISH_T1	1	1	0	2	1.8	-0.2	-0.32	-0.32	0	0	0	0	0	0
7/10/2024 22:27	24102	EHAZ_T1	3	19	16	0.3	0.43	0.13	0.43	0.43	0	0	0	0	0	0
7/10/2024 22:27	63401	HONY_T1	0	0	0	0	0	0	0.24	0.28	1	1	0	600	600	0
7/10/2024 22:27	40101	HUNT_T2	5	1	-4	0.22	0	-0.22	-1.37	-1.38	0	0	0	0	0	0
7/10/2024 22:27	24104	EHAZ_T1	9	3	-6	0.11	0.13	0.02	0	0	0	0	0	0	0	0
7/10/2024 22:28	63801	HEMP_T1	0	0	0	0	0	0	0.55	-0.02	1	1	0	900	900	0
7/10/2024 22:28	20402	ASHF_T2	7	10	3	1.59	1.26	-0.33	0	0	0	0	0	0	0	0
7/10/2024 22:28	14603	SWHI_T1	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1200	1200	0
7/10/2024 22:28	24102	EHAZ_T1	3	19	16	0.3	0.43	0.13	0	0	0	0	0	0	0	0
7/10/2024 22:28	60101	COCA_T1	0	0	0	0	0	0	-0.19	-0.25	1	1	0	1200	1200	0
7/10/2024 22:28	24101	EHAZ_T1	11	0	-11	0.31	0	-0.31	0	0	0	0	0	0	0	0
7/10/2024 22:28	60201	ATGL_T2	0	22	22	0	0.19	0.19	-0.05	0.06	2	2	0	600	600	0
7/10/2024 22:28	63402	HONY_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
7/10/2024 22:28	12701	MACU_T1	0	0	0	0	0	0	-0.73	-0.75	1	1	0	1200	1200	0
7/10/2024 22:28	66505	SMAN_T2	62	21	-41	0.48	0.34	-0.14	0.51	0.58	8	8	0	4600	4600	0
7/10/2024 22:28	24104	EHAZ_T1	9	3	-6	0.11	0.13	0.02	-1.95	-1.96	1	1	0	1200	1200	0
7/10/2024 22:28	63403	HONY_T2	0	0	0	0	0	0	-1.72	-0.56	0	0	0	0	0	0
7/10/2024 22:28	64201	KINZ_T1	0	0	0	0	0	0	-0.55	-0.63	4	4	0	2100	2100	0
7/10/2024 22:28	24105	EHAZ_T1	4	4	0	5.93	5.83	-0.1	0	0	0	0	0	0	0	0
7/10/2024 22:28	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:28	66504	SMAN_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
7/10/2024 22:28	11903	ETEX_T1	0	0	0	0	0	0	1.24	1.21	0	0	0	0	0	0
7/10/2024 22:28	63804	HEMP_T1	1	1	0	7.4	7	-0.4	0.16	0.13	0	0	0	0	0	0
7/10/2024 22:28	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
7/10/2024 22:28	20601	GRWO_T2	120	99	-21	0.7	0.51	-0.19	0.59	0.55	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/10/2024 22:28	20403	ASHF_T2	18	2	-16	0.34	0	-0.34	2.15	2.13	0	0	0	0	0	0
7/10/2024 22:28	20401	ASHF_T2	4	1	-3	0.78	0	-0.78	0	0	0	0	0	0	0	0
7/10/2024 22:28	64101	REFR_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
7/10/2024 22:29	65802	RTWN_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
7/10/2024 22:29	67602	WARW_T2	0	0	0	0	0	0	0.14	0	4	4	0	3000	3000	0
7/10/2024 22:29	48301	ORWI_T1	2	2	0	5.3	5.65	0.35	-0.56	-0.62	1	1	0	900	900	0
7/10/2024 22:29	63804	HEMP_T1	1	1	0	7.4	7	-0.4	0	0	0	0	0	0	0	0
7/10/2024 22:29	63801	HEMP_T1	0	0	0	0	0	0	0.55	-0.02	1	1	0	900	900	0
7/10/2024 22:29	63401	HONY_T1	0	0	0	0	0	0	0.48	0.56	2	2	0	1200	1200	0
7/10/2024 22:29	52002	LING_T2	0	0	0	0	0	0	0.12	-0.06	0	0	0	0	0	0
7/10/2024 22:29	66703	STRA_T1	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
7/10/2024 22:29	66701	STRA_T1	8	0	-8	0.33	0	-0.33	0.94	0.89	1	1	0	600	600	0
7/10/2024 22:29	60201	ATGL_T2	0	22	22	0	0.19	0.19	-0.03	0.03	1	1	0	300	300	0
7/10/2024 22:30	46203	DANV_T2	6	6	0	0.37	0.58	0.21	0	0	0	0	0	0	0	0
7/10/2024 22:30	10705	CATA_T2	0	0	0	0	0	0	-1.1	-1.13	1	1	0	900	900	0
7/10/2024 22:30	48302	ORWI_T2	1	0	-1	0.5	0	-0.5	-0.12	-0.16	0	0	0	0	0	0
7/10/2024 22:30	65604	QVIL_T2	1	0	-1	0.4	0	-0.4	0.91	0.92	0	0	0	0	0	0
7/10/2024 22:30	41902	REED_T1	20	5	-15	0.53	0	-0.53	0.72	0.56	2	2	0	1800	1800	0
7/10/2024 22:30	46206	DANV_T2	15	9	-6	0.6	0.93	0.33	2.21	2.19	2	2	0	2100	2100	0
7/10/2024 22:30	64203	KINZ_T1	0	0	0	0	0	0	-1.32	-0.35	3	2	-1	2100	900	-1200
7/10/2024 22:30	63304	GREE_T1	0	0	0	0	0	0	-2.19	-2.25	0	0	0	0	0	0
7/10/2024 22:30	67201	TEHI_T1	9	8	-1	0.26	0.15	-0.11	0	0	0	0	0	0	0	0
7/10/2024 22:30	16002	DORN_T2	1	0	-1	0.1	0	-0.1	0.25	0.2	1	1	0	1200	1200	0
7/10/2024 22:30	63401	HONY_T1	0	0	0	0	0	0	0.24	0.28	1	1	0	600	600	0
7/10/2024 22:30	47104	MARL_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:30	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/10/2024 22:30	47101	MARL_T1	160	72	-88	1.06	1.19	0.13	-0.74	-0.16	1	1	0	600	600	0
7/10/2024 22:30	67203	TEHI_T1	0	2	2	0	0	0	2.93	2.84	2	1	-1	1500	600	-900
7/10/2024 22:30	16006	DORN_T2	6	6	0	2.75	0.68	-2.07	0	0	0	0	0	0	0	0
7/10/2024 22:30	44601	SALE_T2	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
7/10/2024 22:30	64204	KINZ_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
7/10/2024 22:30	52002	LING_T2	0	0	0	0	0	0	0.12	-0.06	0	0	0	0	0	0
7/10/2024 22:30	64101	REFR_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
7/10/2024 22:30	63804	HEMP_T1	1	1	0	7.3	6.8	-0.5	0	0	0	0	0	0	0	0
7/10/2024 22:30	63801	HEMP_T1	0	0	0	0	0	0	0.55	-0.02	1	1	0	900	900	0
7/10/2024 22:30	41901	REED_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/10/2024 22:31	24105	EHAZ_T1	4	4	0	5.83	5.83	0	0	0	0	0	0	0	0	0
7/10/2024 22:31	61703	ELIZ_T1	0	0	0	0	0	0	-2.28	-2.35	2	2	0	2100	2100	0
7/10/2024 22:31	13103	NHAM_T2	13	9	-4	1.12	0.55	-0.57	0	0	0	0	0	0	0	0
7/10/2024 22:31	65902	SAKR_T2	0	0	0	0	0	0	-1.16	-1.2	2	2	0	1200	1200	0
7/10/2024 22:31	46203	DANV_T2	6	6	0	0.37	0.58	0.21	-3.18	-3.27	0	0	0	0	0	0
7/10/2024 22:31	53903	HALI_T2	0	2	2	0	0.1	0.1	0.01	0.01	0	0	0	0	0	0
7/10/2024 22:31	66505	SMAN_T2	18	17	-1	0.43	0.32	-0.11	0	0	0	0	0	0	0	0
7/10/2024 22:31	53501	EVIL_T2	3	3	0	0.77	0	-0.77	-0.88	-0.8	2	2	0	1100	1100	0
7/10/2024 22:31	12701	MACU_T1	0	0	0	0	0	0	-0.73	-0.75	1	1	0	1200	1200	0
7/10/2024 22:31	47401	PENS_T1	3	0	-3	0.53	0	-0.53	0.54	0.43	0	0	0	0	0	0
7/10/2024 22:31	61304	EARL_T1	9	21	12	0.13	0.2	0.07	0	0	0	0	0	0	0	0
7/10/2024 22:31	61303	EARL_T1	0	0	0	0	0	0	0.57	0.76	0	0	0	0	0	0
7/10/2024 22:31	24104	EHAZ_T1	3	3	0	0.13	0.1	-0.03	-1.95	-1.96	1	1	0	1200	1200	0
7/10/2024 22:31	56501	ROCK_T2	4	39	35	0.23	0.17	-0.06	-2.27	-2.35	0	0	0	0	0	0
7/10/2024 22:31	16302	ALPA_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
7/10/2024 22:31	66703	STRA_T1	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
7/10/2024 22:31	16301	ALPA_T1	1	1	0	0.1	0.1	0	0.61	0.64	0	0	0	0	0	0
7/10/2024 22:31	66504	SMAN_T2	1	3	2	0.2	0.1	-0.1	-0.11	-0.21	0	0	0	0	0	0
7/10/2024 22:31	65901	SAKR_T2	1	1	0	6.4	6.8	0.4	0	0	0	0	0	0	0	0
7/10/2024 22:31	41301	FISH_T1	1	2	1	1.7	1	-0.7	-0.32	-0.32	0	0	0	0	0	0
7/10/2024 22:31	46206	DANV_T2	15	9	-6	0.6	0.93	0.33	0	0	0	0	0	0	0	0
7/10/2024 22:31	13105	NHAM_T2	45	45	0	0.68	0.53	-0.15	-0.67	-0.68	1	1	0	1200	1200	0
7/10/2024 22:31	53902	HALI_T2	1	1	0	3.9	4.4	0.5	0	0	0	0	0	0	0	0
7/10/2024 22:31	24102	EHAZ_T1	19	7	-12	0.38	0.2	-0.18	0	0	0	0	0	0	0	0
7/10/2024 22:31	61701	ELIZ_T1	1	1	0	4	3.8	-0.2	0	0	0	0	0	0	0	0
7/10/2024 22:32	67602	WARW_T2	0	0	0	0	0	0	0.14	0	4	4	0	3000	3000	0
7/10/2024 22:32	47101	MARL_T1	160	72	-88	1.06	1.19	0.13	-1.47	-0.32	2	2	0	1200	1200	0
7/10/2024 22:32	61703	ELIZ_T1	0	0	0	0	0	0	-2.28	-2.35	2	2	0	2100	2100	0
7/10/2024 22:32	67201	TEHI_T1	9	8	-1	0.26	0.15	-0.11	0	-0.02	0	0	0	0	0	0
7/10/2024 22:32	13903	SEID_T1	10	13	3	0.45	0.31	-0.14	0	0	0	0	0	0	0	0
7/10/2024 22:32	60701	BREC_T1	0	0	0	0	0	0	-0.61	-0.64	2	2	0	1200	1200	0
7/10/2024 22:32	12304	LANA_T2	11	8	-3	0.69	0.77	0.08	0	0	0	0	0	0	0	0
7/10/2024 22:32	12301	LANA_T2	0	0	0	0	0	0	-0.67	-0.69	1	1	0	1200	1200	0
7/10/2024 22:32	61701	ELIZ_T1	1	1	0	4	3.8	-0.2	0	0	0	0	0	0	0	0
7/10/2024 22:32	48302	ORWI_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/10/2024 22:32	67203	TEHI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:32	14603	SWHI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:32	12701	MACU_T1	0	0	0	0	0	0	-0.73	-0.75	1	1	0	1200	1200	0
7/10/2024 22:32	13904	SEID_T1	51	48	-3	1.35	1	-0.35	-0.34	-0.34	0	0	0	0	0	0
7/10/2024 22:32	48303	ORWI_T2	0	0	0	0	0	0	0.84	0.8	0	0	0	0	0	0
7/10/2024 22:32	61303	EARL_T1	0	0	0	0	0	0	0.57	0.76	0	0	0	0	0	0
7/10/2024 22:32	14601	SWHI_T1	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
7/10/2024 22:32	64101	REFR_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
7/10/2024 22:32	61304	EARL_T1	9	21	12	0.13	0.2	0.07	0	0	0	0	0	0	0	0
7/10/2024 22:32	47104	MARL_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:33	22905	HARW_T1	15	32	17	0.55	0.94	0.39	0	0	0	0	0	0	0	0
7/10/2024 22:33	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/10/2024 22:33	22903	HARW_T1	10	8	-2	0.73	0.42	-0.31	0	0	0	0	0	0	0	0
7/10/2024 22:33	11507	FREE_T2	21	16	-5	0.42	0.35	-0.07	0.81	0.74	1	1	0	600	600	0
7/10/2024 22:33	46206	DANV_T2	15	9	-6	0.6	0.93	0.33	0	0	0	0	0	0	0	0
7/10/2024 22:33	22901	HARW_T1	5	5	0	0.7	0	-0.7	-0.08	-0.08	1	1	0	1200	1200	0
7/10/2024 22:33	10705	CATA_T2	0	0	0	0	0	0	-1.1	-1.13	1	1	0	900	900	0
7/10/2024 22:33	46203	DANV_T2	6	6	0	0.37	0.58	0.21	-1.06	-1.09	0	0	0	0	0	0
7/10/2024 22:33	66703	STRA_T1	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
7/10/2024 22:33	64203	KINZ_T1	0	0	0	0	0	0	-1.32	-0.35	3	2	-1	2100	900	-1200
7/10/2024 22:33	64204	KINZ_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
7/10/2024 22:33	43304	WATS_T2	2	1	-1	0.2	0	-0.2	-0.15	-0.18	0	0	0	0	0	0
7/10/2024 22:34	42201	SHEN_T2	0	0	0	0	0	0	0.47	0.46	1	1	0	600	600	0
7/10/2024 22:34	20601	GRWO_T2	99	15	-84	0.69	0.53	-0.16	0.59	0.55	0	0	0	0	0	0
7/10/2024 22:34	11505	FREE_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:34	65503	MOJO_T2	0	0	0	0	0	0	-0.16	-0.15	1	1	0	900	900	0
7/10/2024 22:34	67605	WARW_T1	1	3	2	1	0.93	-0.07	-0.7	-0.72	0	0	0	0	0	0
7/10/2024 22:34	44203	POIN_T2	5	6	1	0.98	1.28	0.3	0	0	0	0	0	0	0	0
7/10/2024 22:34	57401	SPAN_T1	0	1	1	0	0	0	-1.08	-0.76	1	1	0	600	600	0
7/10/2024 22:34	44202	POIN_T2	0	0	0	0	0	0	-0.34	-0.07	1	1	0	1200	1200	0
7/10/2024 22:34	11504	FREE_T1	0	0	0	0	0	0	-1.39	-1.6	2	2	0	2100	2100	0
7/10/2024 22:34	42701	AUGU_T1	39	19	-20	0.5	0.33	-0.17	0	0	2	2	0	1800	1800	0
7/10/2024 22:35	58402	MORO_T1	0	0	0	0	0	0	-0.07	-0.47	3	3	0	2400	2400	0
7/10/2024 22:35	53601	DALM_T2	1	1	0	0.2	0.3	0.1	0.11	0.11	0	0	0	0	0	0
7/10/2024 22:35	66505	SMAN_T2	18	17	-1	0.43	0.32	-0.11	0	0	0	0	0	0	0	0
7/10/2024 22:35	56501	ROCK_T2	4	39	35	0.23	0.17	-0.06	-2.27	-2.35	0	0	0	0	0	0
7/10/2024 22:35	64101	REFR_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
7/10/2024 22:35	66504	SMAN_T2	1	3	2	0.2	0.1	-0.1	-0.11	-0.21	0	0	0	0	0	0
7/10/2024 22:35	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/10/2024 22:36	42902	MIDD_T2	1	0	-1	0.6	0	-0.6	-0.55	-0.58	1	1	0	600	600	0
7/10/2024 22:36	67602	WARW_T2	0	0	0	0	0	0	0	-0.03	2	2	0	1500	1500	0
7/10/2024 22:36	67605	WARW_T1	1	3	2	1	0.93	-0.07	-0.7	-0.72	0	0	0	0	0	0
7/10/2024 22:36	42901	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 22:36	46206	DANV_T2	15	9	-6	0.6	0.93	0.33	0	0	0	0	0	0	0	0
7/10/2024 22:36	46203	DANV_T2	6	6	0	0.37	0.58	0.21	-1.09	-1.07	0	0	0	0	0	0
7/10/2024 22:36	56501	ROCK_T2	4	39	35	0.23	0.17	-0.06	-4.54	-4.7	0	0	0	0	0	0
7/10/2024 22:36	11802	FRAN_T1	18	17	-1	0.94	0.61	-0.33	0	0	0	0	0	0	0	0
7/10/2024 22:36	11804	FRAN_T1	246	241	-5	1.66	0.89	-0.77	-0.32	-0.32	0	1	1	0	1200	1200
7/10/2024 22:36	11805	FRAN_T1	2	2	0	0.75	0	-0.75	0	0	0	0	0	0	0	0
7/10/2024 22:36	40802	EXCH_T2	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
7/10/2024 22:37	20402	ASHF_T2	10	9	-1	1.18	0.77	-0.41	0	0	0	0	0	0	0	0
7/10/2024 22:37	20401	ASHF_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
7/10/2024 22:37	42902	MIDD_T2	1	0	-1	0.6	0	-0.6	-0.55	-0.58	1	1	0	600	600	0
7/10/2024 22:37	44601	SALE_T2	0	0	0	0	0	0	0.21	0.25	0	0	0	0	0	0
7/10/2024 22:37	42901	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 22:37	47401	PENS_T1	3	0	-3	0.53	0	-0.53	0.43	0.45	0	0	0	0	0	0
7/10/2024 22:37	44202	POIN_T2	0	0	0	0	0	0	-0.07	-0.24	1	1	0	1200	1200	0
7/10/2024 22:37	46203	DANV_T2	6	6	0	0.37	0.58	0.21	-1.09	-1.07	0	0	0	0	0	0
7/10/2024 22:37	44203	POIN_T2	5	6	1	0.98	1.28	0.3	0	0	0	0	0	0	0	0
7/10/2024 22:37	40101	HUNT_T2	0	1	1	0	0	0	-1.38	-1.43	0	0	0	0	0	0
7/10/2024 22:37	46206	DANV_T2	15	9	-6	0.6	0.93	0.33	0	0	0	0	0	0	0	0
7/10/2024 22:37	20403	ASHF_T2	2	0	-2	0.55	0	-0.55	1.07	0.98	0	0	0	0	0	0
7/10/2024 22:38	41902	REED_T1	20	5	-15	0.53	0	-0.53	0.28	0.29	1	1	0	900	900	0
7/10/2024 22:38	40101	HUNT_T2	0	1	1	0	0	0	-1.38	-1.43	0	0	0	0	0	0
7/10/2024 22:38	46203	DANV_T2	6	6	0	0.37	0.58	0.21	-1.09	-1.07	0	0	0	0	0	0
7/10/2024 22:38	46206	DANV_T2	15	9	-6	0.6	0.93	0.33	0	0	0	0	0	0	0	0
7/10/2024 22:38	41903	REED_T1	0	0	0	0	0	0	0.31	0.28	1	1	0	1200	1200	0
7/10/2024 22:38	20401	ASHF_T2	1	2	1	0.1	0.35	0.25	-0.09	-0.18	1	1	0	600	600	0
7/10/2024 22:38	41901	REED_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/10/2024 22:38	20403	ASHF_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/10/2024 22:38	42201	SHEN_T2	0	0	0	0	0	0	0.46	0.44	1	1	0	600	600	0
7/10/2024 22:38	20402	ASHF_T2	10	9	-1	1.18	0.77	-0.41	0	0	0	0	0	0	0	0
7/10/2024 22:38	47401	PENS_T1	3	0	-3	0.53	0	-0.53	0.43	0.45	0	0	0	0	0	0
7/10/2024 22:39	56501	ROCK_T2	4	39	35	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
7/10/2024 22:39	21206	ECAR_T2	11	6	-5	1.09	7.9	6.81	0.6	0.53	0	0	0	0	0	0
7/10/2024 22:39	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:39	43304	WATS_T2	2	1	-1	0.2	0	-0.2	-0.55	-0.86	0	0	0	0	0	0
7/10/2024 22:39	56504	ROCK_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
7/10/2024 22:40	47401	PENS_T1	3	0	-3	0.53	0	-0.53	0.43	0.45	0	0	0	0	0	0
7/10/2024 22:40	55101	WERT_T1	0	0	0	0	0	0	-2.23	-2.24	4	4	0	3300	3300	0
7/10/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
7/10/2024 22:40	41902	REED_T1	20	5	-15	0.53	0	-0.53	0.28	0.29	1	1	0	900	900	0
7/10/2024 22:40	41901	REED_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/10/2024 22:41	56504	ROCK_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
7/10/2024 22:41	23401	HONE_T2	1	1	0	1.2	0.9	-0.3	0.02	-0.01	0	0	0	0	0	0
7/10/2024 22:41	40101	HUNT_T2	0	1	1	0	0	0	-1.38	-1.43	0	0	0	0	0	0
7/10/2024 22:41	64701	LITI_T1	11	11	0	2.28	1.84	-0.44	0.03	0.05	1	1	0	900	900	0
7/10/2024 22:41	56501	ROCK_T2	4	39	35	0.23	0.17	-0.06	-2.35	-2.39	0	0	0	0	0	0
7/10/2024 22:41	44801	EDAN_T2	3	1	-2	0.73	1.5	0.77	0.97	0.94	0	0	0	0	0	0
7/10/2024 22:41	43304	WATS_T2	2	1	-1	0.2	0	-0.2	-0.36	-0.58	0	0	0	0	0	0
7/10/2024 22:41	47401	PENS_T1	3	0	-3	0.53	0	-0.53	0.43	0.45	0	0	0	0	0	0
7/10/2024 22:42	24902	WHHA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/10/2024 22:42	41602	CLEV_T1	8	9	1	0.33	0	-0.33	0	0	1	1	0	600	600	0
7/10/2024 22:42	47401	PENS_T1	3	0	-3	0.53	0	-0.53	0.87	0.9	0	0	0	0	0	0
7/10/2024 22:42	24901	WHHA_T1	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
7/10/2024 22:43	42701	AUGU_T1	39	19	-20	0.5	0.33	-0.17	0	0	2	2	0	1800	1800	0
7/10/2024 22:43	44801	EDAN_T2	3	1	-2	0.73	1.5	0.77	0.97	0.94	0	0	0	0	0	0
7/10/2024 22:44	64101	REFR_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
7/10/2024 22:44	52004	LING_T2	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
7/10/2024 22:44	23401	HONE_T2	1	1	0	1.2	0.9	-0.3	0.02	-0.01	0	0	0	0	0	0
7/10/2024 22:44	40101	HUNT_T2	0	1	1	0	0	0	-1.38	-1.43	0	0	0	0	0	0
7/10/2024 22:44	42701	AUGU_T1	39	19	-20	0.5	0.33	-0.17	0	0	2	2	0	1800	1800	0
7/10/2024 22:45	44703	MUNC_T2	0	0	0	0	0	0	1.02	1.04	0	0	0	0	0	0
7/10/2024 22:45	56501	ROCK_T2	6	117	111	0.27	0.25	-0.02	-2.35	-2.39	0	0	0	0	0	0
7/10/2024 22:45	64101	REFR_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
7/10/2024 22:45	44702	MUNC_T2	0	40	40	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:45	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/10/2024 22:46	57401	SPAN_T1	1	0	-1	0.2	0	-0.2	-3.06	-3.47	4	4	0	2400	2400	0
7/10/2024 22:46	45302	WBER_T2	0	0	0	0	0	0	1.44	1.39	0	0	0	0	0	0
7/10/2024 22:46	56501	ROCK_T2	6	117	111	0.27	0.25	-0.02	-4.7	-4.78	0	0	0	0	0	0
7/10/2024 22:46	45602	WOOL_T1	9	12	3	0.22	0.27	0.05	0.48	0.45	0	0	0	0	0	0
7/10/2024 22:46	44801	EDAN_T2	1	1	0	1.7	1.5	-0.2	0.97	0.94	0	0	0	0	0	0
7/10/2024 22:46	42701	AUGU_T1	15	19	4	0.36	0.39	0.03	0	0	2	2	0	1800	1800	0
7/10/2024 22:47	57106	SPHI_T2	3	3	0	0.73	1	0.27	0	0	0	0	0	0	0	0
7/10/2024 22:47	54601	SUMM_T2	0	0	0	0	0	0	0	0	6	6	0	6000	6000	0
7/10/2024 22:47	47001	HUGH_T2	3	3	0	6.57	7.63	1.06	-1.13	-1.2	1	1	0	900	900	0
7/10/2024 22:47	47401	PENS_T1	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
7/10/2024 22:47	52503	PROG_T2	0	0	0	0	0	0	-0.07	-0.08	1	1	0	900	900	0
7/10/2024 22:47	57101	SPHI_T2	6	6	0	0.3	0.52	0.22	0	0	0	0	0	0	0	0
7/10/2024 22:47	57103	SPHI_T2	0	0	0	0	0	0	-0.21	-0.24	1	1	0	600	600	0
7/10/2024 22:48	57101	SPHI_T2	6	6	0	0.3	0.52	0.22	0	0	0	0	0	0	0	0
7/10/2024 22:48	57103	SPHI_T2	0	0	0	0	0	0	-0.21	-0.24	1	1	0	600	600	0
7/10/2024 22:48	57106	SPHI_T2	3	3	0	0.73	1	0.27	0	0	0	0	0	0	0	0
7/10/2024 22:49	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/10/2024 22:49	52501	PROG_T1	0	26	26	0	0.13	0.13	-0.61	-0.61	1	1	0	300	300	0
7/10/2024 22:49	57401	SPAN_T1	1	0	-1	0.2	0	-0.2	-1.53	-1.74	2	2	0	1200	1200	0
7/10/2024 22:49	52504	PROG_T1	0	9	9	0	0.17	0.17	0	0	0	0	0	0	0	0
7/10/2024 22:50	52004	LING_T2	0	10	10	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:50	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
7/10/2024 22:50	57101	SPHI_T2	6	6	0	0.3	0.52	0.22	0	0	0	0	0	0	0	0
7/10/2024 22:50	58701	ROSE_T2	0	0	0	0	0	0	-1.59	-1.59	1	1	0	600	600	0
7/10/2024 22:50	57106	SPHI_T2	3	3	0	0.73	1	0.27	0	0	0	0	0	0	0	0
7/10/2024 22:50	58705	ROSE_T2	4	5	1	0.5	0.72	0.22	0	0	0	0	0	0	0	0
7/10/2024 22:50	57104	SPHI_T2	0	0	0	0	0	0	-1.14	-1.15	0	0	0	0	0	0
7/10/2024 22:50	51003	NHAR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:50	64203	KINZ_T1	0	0	0	0	0	0	-0.35	0.16	2	1	-1	900	600	-300
7/10/2024 22:50	51004	NHAR_T1	6	5	-1	1.33	3.55	2.22	-1.01	-1.06	0	0	0	0	0	0
7/10/2024 22:50	52002	LING_T2	0	0	0	0	0	0	-0.12	-0.07	0	0	0	0	0	0
7/10/2024 22:50	58706	ROSE_T2	1	1	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
7/10/2024 22:50	50701	SMEC_T1	0	0	0	0	0	0	-0.98	-1.02	1	1	0	1200	1200	0
7/10/2024 22:51	52002	LING_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
7/10/2024 22:51	54501	ENOL_T2	0	0	0	0	0	0	0.1	0.09	1	1	0	600	600	0
7/10/2024 22:51	57401	SPAN_T1	1	0	-1	0.2	0	-0.2	-0.76	-0.87	1	1	0	600	600	0
7/10/2024 22:51	57702	PAXT_T1	0	0	0	0	0	0	-0.38	-0.44	0	0	0	0	0	0
7/10/2024 22:51	64203	KINZ_T1	0	0	0	0	0	0	-0.35	0.16	2	1	-1	900	600	-300
7/10/2024 22:51	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
7/10/2024 22:51	50701	SMEC_T1	0	0	0	0	0	0	-0.98	-1.02	1	1	0	1200	1200	0
7/10/2024 22:51	52004	LING_T2	0	10	10	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:51	51004	NHAR_T1	6	5	-1	1.33	3.55	2.22	-1.01	-1.06	0	0	0	0	0	0
7/10/2024 22:51	51003	NHAR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:52	23401	HONE_T2	1	1	0	1.4	0.4	-1	-0.01	-0.01	0	0	0	0	0	0
7/10/2024 22:52	57106	SPHI_T2	3	3	0	0.73	1	0.27	0	0	0	0	0	0	0	0
7/10/2024 22:52	57403	SPAN_T1	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
7/10/2024 22:52	57101	SPHI_T2	6	6	0	0.3	0.52	0.22	0	0	0	0	0	0	0	0
7/10/2024 22:52	57304	MOAL_T2	1	1	0	0.3	0	-0.3	-0.38	-0.04	0	0	0	0	0	0
7/10/2024 22:52	58701	ROSE_T2	0	0	0	0	0	0	-3.17	-3.3	2	2	0	1200	1200	0
7/10/2024 22:52	51003	NHAR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:52	51004	NHAR_T1	6	5	-1	1.33	3.55	2.22	-1.06	-1.08	0	0	0	0	0	0
7/10/2024 22:52	58705	ROSE_T2	4	5	1	0.5	0.72	0.22	0	0	0	0	0	0	0	0
7/10/2024 22:52	57303	MOAL_T2	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
7/10/2024 22:52	58706	ROSE_T2	1	1	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
7/10/2024 22:52	57103	SPHI_T2	0	0	0	0	0	0	-0.24	-0.29	1	1	0	600	600	0
7/10/2024 22:52	42902	MIDD_T2	0	0	0	0	0	0	-0.58	-0.61	1	1	0	600	600	0
7/10/2024 22:52	57401	SPAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 22:53	47401	PENS_T1	0	0	0	0	0	0	0.9	0.8	0	0	0	0	0	0
7/10/2024 22:53	57404	SPAN_T2	0	0	0	0	0	0	-1.35	-1.33	1	1	0	1200	1200	0
7/10/2024 22:53	56501	ROCK_T2	6	117	111	0.27	0.25	-0.02	-2.39	-2.45	0	0	0	0	0	0
7/10/2024 22:54	56801	BENV_T1	5	6	1	0.56	1.07	0.51	0	0	0	0	0	0	0	0
7/10/2024 22:54	56501	ROCK_T2	6	117	111	0.27	0.25	-0.02	-2.39	-2.45	0	0	0	0	0	0
7/10/2024 22:54	56803	BENV_T1	0	0	0	0	0	0	-0.6	-0.6	1	1	0	600	600	0
7/10/2024 22:54	57401	SPAN_T1	1	0	-1	0.2	0	-0.2	-1.74	-1.94	2	2	0	1200	1200	0
7/10/2024 22:54	59101	WALK_T2	0	0	0	0	0	0	0.48	0.78	2	2	0	1200	1200	0
7/10/2024 22:54	58705	ROSE_T2	4	5	1	0.5	0.72	0.22	0	0	0	0	0	0	0	0
7/10/2024 22:54	58701	ROSE_T2	0	0	0	0	0	0	-3.17	-3.3	2	2	0	1200	1200	0
7/10/2024 22:54	52501	PROG_T1	0	26	26	0	0.13	0.13	-0.61	-0.64	1	1	0	300	300	0
7/10/2024 22:54	52504	PROG_T1	0	9	9	0	0.17	0.17	0	0	0	0	0	0	0	0
7/10/2024 22:54	57404	SPAN_T2	0	0	0	0	0	0	-1.35	-1.33	1	1	0	1200	1200	0
7/10/2024 22:54	54501	ENOL_T2	0	0	0	0	0	0	0.09	0.07	1	1	0	600	600	0
7/10/2024 22:54	58706	ROSE_T2	1	1	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
7/10/2024 22:55	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:55	56801	BENV_T1	5	6	1	0.56	1.07	0.51	-0.24	-0.26	1	1	0	600	600	0
7/10/2024 22:55	57401	SPAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 22:55	58203	NEWV_T2	1	0	-1	4	4.7	0.7	-0.91	-0.97	0	0	0	0	0	0
7/10/2024 22:55	43304	WATS_T2	0	1	1	0	0	0	-0.29	-0.35	0	0	0	0	0	0
7/10/2024 22:56	42902	MIDD_T2	0	0	0	0	0	0	-0.58	-0.61	1	1	0	600	600	0
7/10/2024 22:56	56801	BENV_T1	5	6	1	0.56	1.07	0.51	-0.48	-0.53	2	2	0	1200	1200	0
7/10/2024 22:56	52401	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/10/2024 22:56	57401	SPAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 22:56	52402	GRPA_T2	0	0	0	0	0	0	-0.49	-0.55	0	0	0	0	0	0
7/10/2024 22:56	55001	NEWP_T1	0	0	0	0	0	0	-0.48	-0.54	0	0	0	0	0	0
7/10/2024 22:56	58706	ROSE_T2	1	1	0	2	1.7	-0.3	1.1	1.07	1	1	0	600	600	0
7/10/2024 22:56	52403	GRPA_T2	7	7	0	0.77	0.7	-0.07	0	0	0	0	0	0	0	0
7/10/2024 22:56	55002	NEWP_T1	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
7/10/2024 22:56	57403	SPAN_T1	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
7/10/2024 22:56	58705	ROSE_T2	4	5	1	0.5	0.72	0.22	0	0	0	0	0	0	0	0
7/10/2024 22:56	53802	MBRG_T2	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
7/10/2024 22:56	56501	ROCK_T2	6	117	111	0.27	0.25	-0.02	-2.39	-2.45	0	0	0	0	0	0
7/10/2024 22:57	43301	WATS_T2	0	0	0	0	0	0	-0.52	-0.54	2	2	0	1800	1800	0
7/10/2024 22:57	58705	ROSE_T2	4	5	1	0.5	0.72	0.22	0	0	0	0	0	0	0	0
7/10/2024 22:57	59101	WALK_T2	0	0	0	0	0	0	0.48	0.78	2	2	0	1200	1200	0
7/10/2024 22:57	58706	ROSE_T2	1	1	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
7/10/2024 22:57	58701	ROSE_T2	0	0	0	0	0	0	-1.59	-1.65	1	1	0	600	600	0
7/10/2024 22:57	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 22:57	52403	GRPA_T2	7	7	0	0.77	0.7	-0.07	0	0	0	0	0	0	0	0
7/10/2024 22:57	58203	NEWV_T2	1	0	-1	0.7	0.6	-0.1	0.52	0.44	1	1	0	600	600	0
7/10/2024 22:57	56801	BENV_T1	5	6	1	0.56	1.07	0.51	-0.72	-0.79	3	3	0	1800	1800	0
7/10/2024 22:57	56802	BENV_T2	0	0	0	0	0	0	-0.87	-0.91	0	0	0	0	0	0
7/10/2024 22:57	55002	NEWP_T1	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
7/10/2024 22:57	52401	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/10/2024 22:57	56501	ROCK_T2	6	117	111	0.27	0.25	-0.02	-2.39	-2.45	0	0	0	0	0	0
7/10/2024 22:57	58001	WCAR_T1	0	0	0	0	0	0	0.33	0.25	0	0	0	0	0	0
7/10/2024 22:57	52404	GRPA_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
7/10/2024 22:57	55001	NEWP_T1	0	0	0	0	0	0	-0.48	-0.54	0	0	0	0	0	0
7/10/2024 22:58	58705	ROSE_T2	4	5	1	0.5	0.72	0.22	0	0	0	0	0	0	0	0
7/10/2024 22:58	52404	GRPA_T2	0	0	0	0	0	0	0.11	0.06	0	0	0	0	0	0
7/10/2024 22:58	56801	BENV_T1	5	6	1	0.56	1.07	0.51	-0.72	-0.79	3	3	0	1800	1800	0
7/10/2024 22:58	54701	NEBL_T1	1	1	0	0.7	1.3	0.6	0	0	1	1	0	600	600	0
7/10/2024 22:58	42903	MIDD_T2	0	0	0	0	0	0	-1	-1	1	1	0	1200	1200	0
7/10/2024 22:58	58706	ROSE_T2	1	1	0	2	1.7	-0.3	1.1	1.07	1	1	0	600	600	0
7/10/2024 22:58	52403	GRPA_T2	7	7	0	0.77	0.7	-0.07	-0.54	-0.57	0	0	0	0	0	0
7/10/2024 22:58	52401	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/10/2024 22:58	58003	WCAR_T1	1	1	0	0.7	0.6	-0.1	0.52	0.44	1	1	0	600	600	0
7/10/2024 22:58	42902	MIDD_T2	0	0	0	0	0	0	-0.58	-0.61	1	1	0	600	600	0
7/10/2024 22:58	52402	GRPA_T2	0	0	0	0	0	0	-0.98	-1.1	0	0	0	0	0	0
7/10/2024 22:58	47401	PENS_T1	0	0	0	0	0	0	0.45	0.4	0	0	0	0	0	0
7/10/2024 22:58	57403	SPAN_T1	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
7/10/2024 22:58	57401	SPAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 22:59	57403	SPAN_T1	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
7/10/2024 22:59	53902	HALI_T2	1	1	0	4.1	4.6	0.5	0	0	0	0	0	0	0	0
7/10/2024 22:59	46602	LACR_T1	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
7/10/2024 22:59	58003	WCAR_T1	1	1	0	0.7	0.6	-0.1	0.52	0.44	1	1	0	600	600	0
7/10/2024 22:59	53901	HALI_T2	0	0	0	0	0	0	-0.94	-0.98	0	0	0	0	0	0
7/10/2024 22:59	57401	SPAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/10/2024 22:59	45602	WOOL_T1	9	12	3	0.22	0.27	0.05	0.45	0.44	0	0	0	0	0	0
7/10/2024 22:59	59003	MIFF_T1	0	0	0	0	0	0	-0.22	-0.48	0	0	0	0	0	0
7/10/2024 22:59	55001	NEWP_T1	0	0	0	0	0	0	-1.44	-1.62	0	0	0	0	0	0
7/10/2024 22:59	55002	NEWP_T1	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
7/10/2024 22:59	53903	HALI_T2	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
7/10/2024 22:59	56801	BENV_T1	5	6	1	0.56	1.07	0.51	-0.24	-0.26	1	1	0	600	600	0
7/10/2024 23:00	55003	NEWP_T2	0	0	0	0	0	0	-0.46	-0.49	1	1	0	600	600	0
7/10/2024 23:00	40902	JESH_T1	0	0	0	0	0	0	-0.76	-0.76	1	1	0	600	600	0
7/10/2024 23:00	55101	WERT_T1	0	0	0	0	0	0	-2.24	-2.29	4	4	0	3300	3300	0
7/10/2024 23:00	12601	MACA_T1	1	0	-1	0.4	0	-0.4	1.37	1.36	0	0	0	0	0	0
7/10/2024 23:00	55105	WERT_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 23:00	12602	MACA_T1	11	2	-9	0.85	0	-0.85	0	0	0	0	0	0	0	0
7/10/2024 23:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 23:00	59101	WALK_T2	0	0	0	0	0	0	1.93	3.12	8	8	0	4800	4800	0
7/10/2024 23:00	56803	BENV_T1	0	0	0	0	0	0	-0.6	-0.6	1	1	0	600	600	0
7/10/2024 23:00	56801	BENV_T1	6	7	1	1.07	1.09	0.02	0	0	0	0	0	0	0	0
7/10/2024 23:00	40901	JESH_T1	1	1	0	2	1.6	-0.4	0	0	0	0	0	0	0	0
7/10/2024 23:00	12606	MACA_T1	51	48	-3	1.63	1.39	-0.24	0	0	0	0	0	0	0	0
7/10/2024 23:00	42902	MIDD_T2	0	0	0	0	0	0	-0.58	-0.61	1	1	0	600	600	0
7/10/2024 23:00	53802	MBRG_T2	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
7/10/2024 23:01	56801	BENV_T1	6	7	1	1.07	1.09	0.02	-0.48	-0.53	2	2	0	1200	1200	0
7/10/2024 23:02	59003	MIFF_T1	0	0	0	0	0	0	-0.22	-0.48	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/10/2024 23:02	46801	HEPB_T2	2	2	0	0.2	0.6	0.4	0.08	0.03	0	0	0	0	0	0
7/10/2024 23:02	55101	WERT_T1	0	0	0	0	0	0	-2.24	-2.29	4	4	0	3300	3300	0
7/10/2024 23:02	45702	LIND_T2	0	0	0	0	0	0	-2.79	-2.62	0	0	0	0	0	0
7/10/2024 23:02	55105	WERT_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/10/2024 23:02	56801	BENV_T1	6	7	1	1.07	1.09	0.02	-0.24	-0.26	1	1	0	600	600	0
7/10/2024 23:04	44301	BEAV_T2	2	2	0	0.3	0	-0.3	-0.17	-0.07	1	1	0	600	600	0
7/10/2024 23:06	47101	MARL_T1	63	56	-7	1.18	1	-0.18	-0.27	-0.32	1	1	0	600	600	0
7/10/2024 23:06	44301	BEAV_T2	2	2	0	0.3	0	-0.3	-0.07	-0.11	1	1	0	600	600	0
7/10/2024 23:21	46801	HEPB_T2	2	2	0	0.45	0.7	0.25	0.06	0.03	0	0	0	0	0	0
7/10/2024 23:22	56501	ROCK_T2	117	150	33	0.25	0.34	0.09	-2.41	-2.48	0	0	0	0	0	0
7/10/2024 23:31	64204	KINZ_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/10/2024 23:31	64203	KINZ_T1	0	0	0	0	0	0	0.04	0.07	1	1	0	600	600	0
7/10/2024 23:32	64203	KINZ_T1	0	0	0	0	0	0	0.04	0.07	1	1	0	600	600	0
7/10/2024 23:32	64204	KINZ_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/10/2024 23:40	60701	BREC_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
7/10/2024 23:50	45602	WOOL_T1	0	0	0	0	0	0	0.57	0.93	0	0	0	0	0	0
7/11/2024 0:04	21206	ECAR_T2	1	1	0	8.2	8.2	0	0.48	0.48	0	0	0	0	0	0
7/11/2024 0:04	21204	ECAR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/11/2024 0:08	47001	HUGH_T2	4	3	-1	6.23	7.7	1.47	-1.39	-1.43	1	1	0	900	900	0
7/11/2024 0:08	47002	HUGH_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/11/2024 0:12	64203	KINZ_T1	0	0	0	0	0	0	-0.05	-0.04	1	1	0	600	600	0
7/11/2024 0:12	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/11/2024 0:12	64204	KINZ_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
7/11/2024 0:13	53902	HALI_T2	1	1	0	4.8	4.6	-0.2	0	0	0	0	0	0	0	0
7/11/2024 0:13	64203	KINZ_T1	0	0	0	0	0	0	-0.05	-0.04	1	1	0	600	600	0
7/11/2024 0:13	53903	HALI_T2	2	2	0	0.7	0.5	-0.2	0.04	-0.01	0	0	0	0	0	0
7/11/2024 0:13	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/11/2024 0:13	64204	KINZ_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
7/11/2024 0:19	67605	WARW_T1	1	1	0	0.7	0.9	0.2	-0.76	-0.75	0	0	0	0	0	0
7/11/2024 0:20	67605	WARW_T1	1	1	0	0.7	0.9	0.2	-0.76	-0.75	0	0	0	0	0	0
7/11/2024 0:33	64202	KINZ_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
7/11/2024 0:33	64203	KINZ_T1	0	0	0	0	0	0	-0.04	-0.05	1	1	0	600	600	0
7/11/2024 0:33	64204	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
7/11/2024 0:34	64202	KINZ_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
7/11/2024 0:34	64203	KINZ_T1	0	0	0	0	0	0	-0.04	-0.05	1	1	0	600	600	0
7/11/2024 0:34	64204	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
7/11/2024 0:40	67605	WARW_T1	1	3	2	0.6	0.53	-0.07	-0.81	-0.87	0	0	0	0	0	0
7/11/2024 0:41	67605	WARW_T1	1	3	2	0.6	0.53	-0.07	-0.81	-0.87	0	0	0	0	0	0
7/11/2024 2:23	24902	WHHA_T1	1	1	0	0.1	0.4	0.3	0.91	0.88	0	0	0	0	0	0
7/11/2024 3:07	65901	SAUK_T2	1	1	0	8.1	7.4	-0.7	-0.64	-0.59	1	1	0	900	900	0
7/11/2024 4:03	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.81	1	1	0	900	900	0
7/11/2024 4:36	55101	WERT_T1	0	0	0	0	0	0	-1.83	-1.74	3	3	0	2400	2400	0
7/11/2024 5:23	47101	MARL_T1	6	1	-5	0.33	0	-0.33	-0.61	-0.54	0	0	0	0	0	0
7/11/2024 6:39	16301	ALPA_T1	1	0	-1	0.1	0	-0.1	0.02	0	0	0	0	0	0	0
7/11/2024 6:40	24902	WHHA_T1	2	2	0	0.6	1.2	0.6	0.82	0.82	0	0	0	0	0	0
7/11/2024 6:55	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 6:55	62102	ELAN_T1	0	0	0	0	0	0	1.03	1.08	0	0	0	0	0	0
7/11/2024 6:55	15203	SFAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 6:57	61102	BERK_T5	0	0	0	0	0	0	1.59	1.47	2	2	0	600	600	0
7/11/2024 7:11	43304	WATS_T2	0	1	1	0	0	0	0	0.27	1	1	0	600	600	0
7/11/2024 7:12	63804	HEMP_T1	1	1	0	6.5	6.6	0.1	0.38	0.32	0	0	0	0	0	0
7/11/2024 7:12	63305	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/11/2024 7:12	63306	GREE_T1	0	0	0	0	0	0	-1.93	-1.93	1	1	0	900	900	0
7/11/2024 7:21	67803	WLAN_T1	0	0	0	0	0	0	-1.22	-1.18	0	0	0	0	0	0
7/11/2024 7:22	13905	SEID_T1	0	0	0	0	0	0	-0.71	-0.73	1	1	0	1200	1200	0
7/11/2024 7:24	55102	WERT_T2	0	0	0	0	0	0	-1.76	-0.53	2	2	0	1200	1200	0
7/11/2024 7:32	45802	HEGI_T2	122	144	22	0.55	0.36	-0.19	2.59	1.57	4	4	0	2400	2400	0
7/11/2024 7:32	22701	MINO_T1	0	0	0	0	0	0	-0.63	-0.58	1	1	0	600	600	0
7/11/2024 7:38	43304	WATS_T2	1	0	-1	0.4	0	-0.4	0.32	0.39	1	1	0	600	600	0
7/11/2024 7:39	67604	WARW_T1	0	0	0	0	0	0	0.27	0.34	0	0	0	0	0	0
7/11/2024 7:39	67605	WARW_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/11/2024 7:45	46801	HEPB_T2	3	2	-1	1.13	0.25	-0.88	-0.09	0.84	0	0	0	0	0	0
7/11/2024 7:45	46803	HEPB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/11/2024 7:47	46801	HEPB_T2	3	2	-1	1.13	0.25	-0.88	-0.09	0.84	0	0	0	0	0	0
7/11/2024 7:47	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.18	2	2	0	1200	1200	0
7/11/2024 7:47	46803	HEPB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/11/2024 7:48	65401	MARI_T1	0	0	0	0	0	0	0.21	0.27	0	0	0	0	0	0
7/11/2024 7:48	65402	MARI_T1	11	15	4	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
7/11/2024 7:53	24902	WHHA_T1	1	2	1	0.3	0	-0.3	0.9	0.93	0	0	0	0	0	0
7/11/2024 7:53	29402	BELT_T1	1	1	0	7	7	0	0	0	0	0	0	0	0	0
7/11/2024 8:00	61801	EELI_T2	0	0	0	0	0	0	-0.18	-0.18	1	1	0	600	600	0
7/11/2024 8:06	14404	SSLA_T1	2	2	0	2.5	2.35	-0.15	0	0	0	0	0	0	0	0
7/11/2024 8:06	14401	SSLA_T1	0	0	0	0	0	0	-0.96	-1.04	2	2	0	1800	1800	0
7/11/2024 8:16	46101	MACI_T2	0	0	0	0	0	0	-0.57	-0.65	2	2	0	2400	2400	0
7/11/2024 8:21	57403	SPAN_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
7/11/2024 8:22	57403	SPAN_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
7/11/2024 8:23	67505	WEWI_T1	0	0	0	0	0	0	0.47	0.53	1	1	0	900	900	0
7/11/2024 8:24	67505	WEWI_T1	0	0	0	0	0	0	0.47	0.53	1	1	0	900	900	0
7/11/2024 8:25	56802	BENV_T2	1	1	0	0.7	0.6	-0.1	-1.06	-1.03	0	0	0	0	0	0
7/11/2024 8:26	54505	ENOL_T2	1	1	0	0.3	0.3	0	-1.13	-1.13	1	1	0	600	600	0
7/11/2024 8:27	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 8:27	20403	ASHF_T2	0	4	4	0	0.4	0.4	3.72	3.89	0	0	0	0	0	0
7/11/2024 8:27	20401	ASHF_T2	2	2	0	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
7/11/2024 8:27	54505	ENOL_T2	1	1	0	0.3	0.3	0	-1.13	-1.13	1	1	0	600	600	0
7/11/2024 8:28	24702	FLND_T2	3	2	-1	0.57	0.5	-0.07	0.29	0.28	1	1	0	1200	1200	0
7/11/2024 8:31	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
7/11/2024 8:36	67605	WARW_T1	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
7/11/2024 8:46	50501	MECH_T1	4	4	0	0.63	0.68	0.05	0	0	0	0	0	0	0	0
7/11/2024 8:46	50502	MECH_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
7/11/2024 8:46	40101	HUNT_T2	14	16	2	0.31	0.3	-0.01	-0.26	-0.19	0	0	0	0	0	0
7/11/2024 8:46	13503	MCMI_T2	7	15	8	0.3	0.21	-0.09	-0.77	-0.77	0	0	0	0	0	0
7/11/2024 8:46	50505	MECH_T1	0	0	0	0	0	0	-1.83	-1.86	0	0	0	0	0	0
7/11/2024 8:47	13503	MCMI_T2	7	15	8	0.3	0.21	-0.09	-0.77	-0.77	0	0	0	0	0	0
7/11/2024 8:50	56501	ROCK_T2	9	8	-1	0.3	0.3	0	-3.05	-2.97	0	0	0	0	0	0
7/11/2024 8:50	13503	MCMI_T2	7	15	8	0.3	0.21	-0.09	-0.77	-0.77	0	0	0	0	0	0
7/11/2024 8:50	58402	MORO_T1	0	0	0	0	0	0	-0.71	-0.68	3	3	0	2400	2400	0
7/11/2024 8:51	56501	ROCK_T2	9	8	-1	0.3	0.3	0	-1.52	-1.48	0	0	0	0	0	0
7/11/2024 8:51	67604	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 8:51	67605	WARW_T1	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
7/11/2024 8:55	29402	BELT_T1	1	10	9	7.1	1.14	-5.96	0	0	0	0	0	0	0	0
7/11/2024 8:55	29401	BELT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/11/2024 8:58	29401	BELT_T1	0	1	1	0	0.2	0.2	0	0	1	1	0	900	900	0
7/11/2024 8:58	29402	BELT_T1	1	10	9	7.1	1.14	-5.96	0	0	0	0	0	0	0	0
7/11/2024 9:02	56501	ROCK_T2	8	9	1	0.29	0.24	-0.05	-1.48	0	0	0	0	0	0	0
7/11/2024 9:03	43202	MVIL_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
7/11/2024 9:04	65603	QVIL_T2	0	0	0	0	0	0	1.28	1.27	0	0	0	0	0	0
7/11/2024 9:05	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/11/2024 9:06	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/11/2024 9:08	67703	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	2	2	0	1800	1800	0
7/11/2024 9:11	44301	BEAV_T2	0	1	1	0	0	0	0	0.17	2	2	0	1500	1500	0
7/11/2024 9:11	40101	HUNT_T2	15	2	-13	0.27	0.3	0.03	-0.17	-0.07	0	0	0	0	0	0
7/11/2024 9:16	16902	MECK_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
7/11/2024 9:25	20402	ASHF_T2	6	6	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
7/11/2024 9:25	20401	ASHF_T2	5	5	0	1.12	0.85	-0.27	0	0	0	0	0	0	0	0
7/11/2024 9:25	20403	ASHF_T2	1	1	0	0.2	0	-0.2	1.86	1.84	0	0	0	0	0	0
7/11/2024 9:26	20402	ASHF_T2	6	6	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
7/11/2024 9:26	20403	ASHF_T2	1	1	0	0.2	0	-0.2	1.86	1.84	0	0	0	0	0	0
7/11/2024 9:26	20401	ASHF_T2	5	5	0	1.12	0.85	-0.27	0	0	0	0	0	0	0	0
7/11/2024 9:26	46206	DANV_T2	52	54	2	0.51	0.69	0.18	2.1	2.19	2	2	0	2100	2100	0
7/11/2024 9:30	46206	DANV_T2	53	52	-1	0.8	0.66	-0.14	2.1	2.19	2	2	0	2100	2100	0
7/11/2024 9:30	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 9:32	44201	POIN_T1	0	0	0	0	0	0	-1.35	-0.27	2	2	0	2100	2100	0
7/11/2024 9:32	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/11/2024 9:33	44201	POIN_T1	0	0	0	0	0	0	-6.73	-1.35	10	10	0	10500	10500	0
7/11/2024 9:33	51702	OBER_T1	2	2	0	2.5	2.55	0.05	-3.99	-3.91	3	3	0	1800	1800	0
7/11/2024 9:34	51702	OBER_T1	2	2	0	2.5	2.55	0.05	-2.66	-2.61	2	2	0	1200	1200	0
7/11/2024 9:34	44201	POIN_T1	0	0	0	0	0	0	-2.69	-0.54	4	4	0	4200	4200	0
7/11/2024 9:34	43202	MVIL_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
7/11/2024 9:34	51704	OBER_T1	0	0	0	0	0	0	-1.32	-1.27	1	1	0	1200	1200	0
7/11/2024 9:35	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 9:35	51702	OBER_T1	2	2	0	2.5	2.55	0.05	-1.33	-1.3	1	1	0	600	600	0
7/11/2024 9:35	40302	TAMA_T3	0	0	0	0	0	0	-1.16	-1.17	1	1	0	1200	1200	0
7/11/2024 9:35	44201	POIN_T1	0	0	0	0	0	0	-4.04	-0.81	6	6	0	6300	6300	0
7/11/2024 9:35	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/11/2024 9:36	51702	OBER_T1	2	2	0	2.5	2.55	0.05	-1.33	-1.3	1	1	0	600	600	0
7/11/2024 9:36	44201	POIN_T1	0	0	0	0	0	0	0.54	-1.7	4	4	0	4200	4200	0
7/11/2024 9:36	51704	OBER_T1	0	0	0	0	0	0	-1.32	-1.27	1	1	0	1200	1200	0
7/11/2024 9:37	51702	OBER_T1	2	2	0	2.5	2.55	0.05	-1.3	-1.28	1	1	0	600	600	0
7/11/2024 9:37	61102	BERK_T5	0	0	0	0	0	0	2.19	2.52	2	2	0	600	600	0
7/11/2024 9:37	14404	SSLA_T1	2	2	0	2.35	2.25	-0.1	-0.08	-0.02	1	1	0	900	900	0
7/11/2024 9:37	14401	SSLA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/11/2024 9:38	51702	OBER_T1	2	2	0	2.5	2.55	0.05	-2.61	-2.57	2	2	0	1200	1200	0
7/11/2024 9:39	61102	BERK_T5	0	0	0	0	0	0	2.19	2.52	2	2	0	600	600	0
7/11/2024 9:40	44801	EDAN_T2	1	1	0	0.7	0.3	-0.4	0.91	0.91	0	0	0	0	0	0
7/11/2024 9:40	61102	BERK_T5	0	0	0	0	0	0	1.1	1.26	1	1	0	300	300	0
7/11/2024 9:41	61102	BERK_T5	0	0	0	0	0	0	1.1	1.26	1	1	0	300	300	0
7/11/2024 9:43	67201	TEHI_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/11/2024 9:43	56501	ROCK_T2	7	2	-5	0.19	0.4	0.21	-1.45	-1.43	0	0	0	0	0	0
7/11/2024 9:43	67203	TEHI_T1	13	21	8	0.8	0.69	-0.11	3.27	3.41	3	3	0	2100	2100	0
7/11/2024 9:43	44801	EDAN_T2	1	1	0	0.7	0.3	-0.4	0.91	0.91	0	0	0	0	0	0
7/11/2024 9:44	56501	ROCK_T2	7	2	-5	0.19	0.4	0.21	-1.45	-1.43	0	0	0	0	0	0
7/11/2024 9:44	23202	HIRU_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
7/11/2024 9:44	23201	HIRU_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/11/2024 9:48	16902	MECK_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
7/11/2024 9:50	13503	MCMI_T2	31	8	-23	0.16	0.3	0.14	-0.74	-0.72	0	0	0	0	0	0
7/11/2024 9:51	42902	MIDD_T2	0	0	0	0	0	0	0.08	0	1	1	0	600	600	0
7/11/2024 9:53	14404	SSLA_T1	2	2	0	2.25	2.15	-0.1	0	0	0	0	0	0	0	0
7/11/2024 9:53	14403	SSLA_T1	0	0	0	0	0	0	1.54	1.53	0	0	0	0	0	0
7/11/2024 9:54	56802	BENV_T2	1	1	0	0.3	0.3	0	-1.96	-1.88	0	0	0	0	0	0
7/11/2024 9:55	56802	BENV_T2	1	1	0	0.3	0.3	0	-0.98	-0.94	0	0	0	0	0	0
7/11/2024 9:56	56802	BENV_T2	1	1	0	0.3	0.3	0	-0.98	-0.94	0	0	0	0	0	0
7/11/2024 10:00	40505	CRES_T1	3	3	0	1.73	2.3	0.57	0.73	0.68	0	0	0	0	0	0
7/11/2024 10:00	40503	CRES_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/11/2024 10:00	48301	ORWI_T1	2	2	0	3.3	3.6	0.3	-0.23	-0.3	1	1	0	900	900	0
7/11/2024 10:00	14401	SSLA_T1	0	0	0	0	0	0	-0.94	-0.94	2	2	0	1800	1800	0
7/11/2024 10:00	57401	SPAN_T1	0	0	0	0	0	0	-1.08	-1.11	1	1	0	600	600	0
7/11/2024 10:00	14404	SSLA_T1	2	2	0	1.85	2.25	0.4	0	0	0	0	0	0	0	0
7/11/2024 10:00	40504	CRES_T1	3	3	0	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
7/11/2024 10:00	40101	HUNT_T2	3	23	20	0.37	0.42	0.05	-0.09	-0.12	0	0	0	0	0	0
7/11/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
7/11/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.45	0.52	0	0	0	0	0	0
7/11/2024 10:05	14403	SSLA_T1	0	0	0	0	0	0	1.54	1.53	0	0	0	0	0	0
7/11/2024 10:05	14404	SSLA_T1	2	2	0	1.85	2.25	0.4	0	0	0	0	0	0	0	0
7/11/2024 10:06	20601	GRWO_T2	40	76	36	0.34	0.36	0.02	0.59	0.67	0	0	0	0	0	0
7/11/2024 10:06	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 10:08	16406	MOPO_T1	0	0	0	0	0	0	-0.94	-1.03	2	2	0	2100	2100	0
7/11/2024 10:08	60801	BUCK_T1	0	0	0	0	0	0	0.38	0.45	0	0	0	0	0	0
7/11/2024 10:08	60803	BUCK_T1	7	10	3	0.16	0.25	0.09	0	0	0	0	0	0	0	0
7/11/2024 10:08	56801	BENV_T1	7	6	-1	1	0.62	-0.38	-0.5	-0.41	1	1	0	600	600	0
7/11/2024 10:09	22003	BOHE_T1	223	241	18	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
7/11/2024 10:09	22001	BOHE_T1	6	9	3	0.18	0.14	-0.04	0.46	0.47	0	0	0	0	0	0
7/11/2024 10:10	58001	WCAR_T1	4	4	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
7/11/2024 10:10	61801	EELI_T2	0	0	0	0	0	0	-0.1	-0.12	1	1	0	600	600	0
7/11/2024 10:10	20403	ASHF_T2	0	7	7	0	0.2	0.2	2.06	2.07	0	0	0	0	0	0
7/11/2024 10:10	24902	WHHA_T1	1	2	1	1	1.1	0.1	2.06	1.96	0	0	0	0	0	0
7/11/2024 10:10	58003	WCAR_T1	1	1	0	1.3	1.3	0	0.46	0.44	1	1	0	600	600	0
7/11/2024 10:10	20402	ASHF_T2	1	6	5	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/11/2024 10:10	20401	ASHF_T2	2	4	2	0.55	0.58	0.03	0.31	0.34	0	0	0	0	0	0
7/11/2024 10:10	56802	BENV_T2	1	1	0	0.3	0.3	0	-1.88	-1.71	0	0	0	0	0	0
7/11/2024 10:11	56802	BENV_T2	1	1	0	0.3	0.3	0	-0.94	-0.85	0	0	0	0	0	0
7/11/2024 10:12	56802	BENV_T2	1	1	0	0.3	0.3	0	-0.94	-0.85	0	0	0	0	0	0
7/11/2024 10:13	53301	GRAT_T1	0	2	2	0	0	0	0	0	1	1	0	450	450	0
7/11/2024 10:13	56802	BENV_T2	1	1	0	0.3	0.3	0	-0.94	-0.85	0	0	0	0	0	0
7/11/2024 10:13	46206	DANV_T2	52	48	-4	0.76	0.51	-0.25	2.16	2.25	2	2	0	2100	2100	0
7/11/2024 10:13	46204	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/11/2024 10:14	22602	KIMB_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
7/11/2024 10:14	64204	KINZ_T1	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
7/11/2024 10:14	64203	KINZ_T1	1	1	0	1.1	0	-1.1	-0.26	-0.29	3	3	0	2100	2100	0
7/11/2024 10:14	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/11/2024 10:15	52404	GRPA_T2	1	0	-1	1	0	-1	0.93	0.78	0	0	0	0	0	0
7/11/2024 10:15	52403	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/11/2024 10:16	64202	KINZ_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/11/2024 10:16	23202	HIRU_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
7/11/2024 10:16	52404	GRPA_T2	1	0	-1	1	0	-1	0.93	0.78	0	0	0	0	0	0
7/11/2024 10:16	52403	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/11/2024 10:16	16302	ALPA_T2	0	0	0	0	0	0	0.16	0.08	0	0	0	0	0	0
7/11/2024 10:16	64203	KINZ_T1	1	0	-1	0.4	0	-0.4	-0.26	-0.29	3	3	0	2100	2100	0
7/11/2024 10:16	64204	KINZ_T1	1	0	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
7/11/2024 10:16	23201	HIRU_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/11/2024 10:16	16902	MECK_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
7/11/2024 10:19	12807	MICK_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/11/2024 10:19	12801	MICK_T1	0	0	0	0	0	0	-0.14	-0.14	1	1	0	600	600	0
7/11/2024 10:20	16902	MECK_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
7/11/2024 10:22	67903	WNHO_T1	0	0	0	0	0	0	1.29	1.35	1	1	0	1200	1200	0
7/11/2024 10:22	43304	WATS_T2	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
7/11/2024 10:24	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 10:24	20403	ASHF_T2	2	8	6	0.2	0.18	-0.02	2.07	2	0	0	0	0	0	0
7/11/2024 10:24	20401	ASHF_T2	4	4	0	0.95	0.58	-0.37	0	0	0	0	0	0	0	0
7/11/2024 10:25	67605	WARW_T1	1	1	0	0.8	0.4	-0.4	-0.73	-0.71	0	0	0	0	0	0
7/11/2024 10:26	58001	WCAR_T1	4	4	0	0.45	0.5	0.05	0.23	0.3	0	0	0	0	0	0
7/11/2024 10:26	58003	WCAR_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
7/11/2024 10:27	44802	EDAN_T2	0	0	0	0	0	0	-7.59	-7.53	0	0	0	0	0	0
7/11/2024 10:27	44801	EDAN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/11/2024 10:28	46206	DANV_T2	48	42	-6	0.61	0.51	-0.1	2.25	2.35	2	2	0	2100	2100	0
7/11/2024 10:28	44801	EDAN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/11/2024 10:28	52403	GRPA_T2	0	2	2	0	0.2	0.2	0	0.02	0	0	0	0	0	0
7/11/2024 10:28	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 10:28	20401	ASHF_T2	4	4	0	0.95	0.58	-0.37	0	0	0	0	0	0	0	0
7/11/2024 10:28	52404	GRPA_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
7/11/2024 10:28	20403	ASHF_T2	2	8	6	0.2	0.18	-0.02	2.07	2	0	0	0	0	0	0
7/11/2024 10:28	44802	EDAN_T2	0	0	0	0	0	0	-2.53	-2.51	0	0	0	0	0	0
7/11/2024 10:29	44802	EDAN_T2	0	0	0	0	0	0	-2.53	-2.51	0	0	0	0	0	0
7/11/2024 10:29	63501	HEID_TBK1-2	1	1	0	0.6	0.5	-0.1	0.64	0.65	1	1	0	900	900	0
7/11/2024 10:29	44801	EDAN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/11/2024 10:29	20601	GRWO_T2	43	94	51	0.36	0.47	0.11	0.72	0.72	0	0	0	0	0	0
7/11/2024 10:32	44802	EDAN_T2	0	1	1	0	0.1	0.1	-2.53	-2.51	0	0	0	0	0	0
7/11/2024 10:32	44801	EDAN_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/11/2024 10:33	40101	HUNT_T2	5	15	10	0.42	0.4	-0.02	-0.14	-0.12	0	0	0	0	0	0
7/11/2024 10:35	65001	NEFF_T2	0	0	0	0	0	0	0.05	0.13	1	1	0	1200	1200	0
7/11/2024 10:35	58402	MORO_T1	0	0	0	0	0	0	-0.61	-0.62	3	3	0	2400	2400	0
7/11/2024 10:38	58003	WCAR_T1	1	1	0	1.2	1.3	0.1	0.48	0.44	1	1	0	600	600	0
7/11/2024 10:38	59101	WALK_T2	0	0	0	0	0	0	2.42	3.04	4	4	0	2400	2400	0
7/11/2024 10:38	55101	WERT_T1	0	0	0	0	0	0	-1.46	-2.09	4	4	0	3300	3300	0
7/11/2024 10:38	58001	WCAR_T1	4	4	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
7/11/2024 10:39	43402	BENT_T1	0	0	0	0	0	0	-0.52	-0.46	1	1	0	900	900	0
7/11/2024 10:40	20401	ASHF_T2	4	5	1	0.58	0.55	-0.03	0	0	0	0	0	0	0	0
7/11/2024 10:40	59101	WALK_T2	0	0	0	0	0	0	1.21	1.52	2	2	0	1200	1200	0
7/11/2024 10:40	43402	BENT_T1	0	0	0	0	0	0	-0.52	-0.46	1	1	0	900	900	0
7/11/2024 10:40	20402	ASHF_T2	6	0	-6	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/11/2024 10:40	20403	ASHF_T2	6	7	1	0.3	0	-0.3	2	1.87	0	0	0	0	0	0
7/11/2024 10:41	46206	DANV_T2	32	42	10	0.51	0.44	-0.07	0	0	0	0	0	0	0	0
7/11/2024 10:41	11101	EGYP_T1	1	1	0	0.7	1	0.3	0.81	0.77	1	1	0	1200	1200	0
7/11/2024 10:41	46203	DANV_T2	0	0	0	0	0	0	-1.43	-1.43	0	0	0	0	0	0
7/11/2024 10:41	11102	EGYP_T1	3	3	0	0.73	1.4	0.67	0.29	0.33	0	0	0	0	0	0
7/11/2024 10:41	11104	EGYP_T1	5	6	1	1.92	0.62	-1.3	0	0	0	0	0	0	0	0
7/11/2024 10:43	46203	DANV_T2	0	0	0	0	0	0	-1.43	-1.43	0	0	0	0	0	0
7/11/2024 10:43	16302	ALPA_T2	0	0	0	0	0	0	0.11	0.16	0	0	0	0	0	0
7/11/2024 10:43	46206	DANV_T2	32	42	10	0.51	0.44	-0.07	0	0	0	0	0	0	0	0
7/11/2024 10:44	16302	ALPA_T2	0	0	0	0	0	0	0.11	0.16	0	0	0	0	0	0
7/11/2024 10:45	46206	DANV_T2	41	43	2	0.44	0.45	0.01	0	0	0	0	0	0	0	0
7/11/2024 10:45	46202	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 10:45	45702	LIND_T2	1	3	2	0.6	0.53	-0.07	-1.4	-1.38	0	0	0	0	0	0
7/11/2024 10:45	46203	DANV_T2	0	0	0	0	0	0	-1.43	-1.43	0	0	0	0	0	0
7/11/2024 10:46	13503	MCMI_T2	189	45	-144	0.4	0.23	-0.17	-0.7	-0.69	0	0	0	0	0	0
7/11/2024 10:46	16302	ALPA_T2	0	0	0	0	0	0	0.11	0.16	0	0	0	0	0	0
7/11/2024 10:47	13503	MCMI_T2	189	45	-144	0.4	0.23	-0.17	-0.7	-0.69	0	0	0	0	0	0
7/11/2024 10:47	16302	ALPA_T2	0	0	0	0	0	0	0.11	0.16	0	0	0	0	0	0
7/11/2024 10:49	12807	MICK_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/11/2024 10:49	12803	MICK_T1	0	0	0	0	0	0	0.19	0.26	1	1	0	1200	1200	0
7/11/2024 10:49	12802	MICK_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 10:49	13503	MCMI_T2	189	45	-144	0.4	0.23	-0.17	-1.4	-1.38	0	0	0	0	0	0
7/11/2024 10:50	41902	REED_T1	0	0	0	0	0	0	1.04	1.16	2	2	0	1800	1800	0
7/11/2024 10:50	41903	REED_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/11/2024 10:50	13503	MCMI_T2	189	45	-144	0.4	0.23	-0.17	-0.7	-0.69	0	0	0	0	0	0
7/11/2024 10:54	59101	WALK_T2	0	0	0	0	0	0	3.04	2.47	4	4	0	2400	2400	0
7/11/2024 10:56	59101	WALK_T2	0	0	0	0	0	0	1.52	1.24	2	2	0	1200	1200	0
7/11/2024 11:01	44801	EDAN_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
7/11/2024 11:01	44802	EDAN_T2	1	0	-1	0.1	0	-0.1	-2.5	-2.51	0	0	0	0	0	0
7/11/2024 11:03	64101	REFR_T1	0	0	0	0	0	0	0.81	0.83	0	0	0	0	0	0
7/11/2024 11:03	56802	BENV_T2	0	1	1	0	0.1	0.1	-0.88	-0.97	0	0	0	0	0	0
7/11/2024 11:04	66703	STRA_T1	0	1	1	0	0	0	0.76	0.78	0	0	0	0	0	0
7/11/2024 11:04	64101	REFR_T1	0	0	0	0	0	0	1.22	1.25	0	0	0	0	0	0
7/11/2024 11:04	66701	STRA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 11:06	66703	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 11:06	66701	STRA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 11:06	64101	REFR_T1	0	0	0	0	0	0	0.83	0.77	0	0	0	0	0	0
7/11/2024 11:06	66702	STRA_T1	0	0	0	0	0	0	-0.28	-0.17	2	2	0	1500	1500	0
7/11/2024 11:07	67602	WARW_T2	0	0	0	0	0	0	0.16	0.16	2	2	0	1500	1500	0
7/11/2024 11:09	64101	REFR_T1	0	0	0	0	0	0	1.25	1.16	0	0	0	0	0	0
7/11/2024 11:11	46203	DANV_T2	0	0	0	0	0	0	-1.34	-1.37	0	0	0	0	0	0
7/11/2024 11:11	46202	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 11:11	46206	DANV_T2	36	45	9	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
7/11/2024 11:11	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 11:13	46206	DANV_T2	36	45	9	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
7/11/2024 11:13	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 11:13	46203	DANV_T2	0	0	0	0	0	0	-2.68	-2.73	0	0	0	0	0	0
7/11/2024 11:13	46202	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 11:14	46206	DANV_T2	36	45	9	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
7/11/2024 11:14	46202	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 11:14	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 11:14	46203	DANV_T2	0	0	0	0	0	0	-1.34	-1.37	0	0	0	0	0	0
7/11/2024 11:17	13503	MCMI_T2	38	45	7	0.22	0.21	-0.01	-0.69	-0.71	0	0	0	0	0	0
7/11/2024 11:19	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 11:20	60501	NMAN_T2	3	3	0	3.23	3.77	0.54	0	0	0	0	0	0	0	0
7/11/2024 11:20	60502	NMAN_T2	0	0	0	0	0	0	0.56	0.61	0	0	0	0	0	0
7/11/2024 11:24	67605	WARW_T1	0	1	1	0	0.5	0.5	-0.65	-0.63	0	0	0	0	0	0
7/11/2024 11:27	63304	GREE_T1	0	0	0	0	0	0	-2.13	-2.2	0	0	0	0	0	0
7/11/2024 11:28	67201	TEHI_T1	5	1	-4	1.02	0.2	-0.82	0	0	0	0	0	0	0	0
7/11/2024 11:28	67203	TEHI_T1	24	11	-13	0.66	0.4	-0.26	3.27	2.84	3	3	0	2100	2100	0
7/11/2024 11:29	47001	HUGH_T2	3	3	0	7.17	7.73	0.56	-1.09	-1.13	1	1	0	900	900	0
7/11/2024 11:30	63304	GREE_T1	0	0	0	0	0	0	-2.13	-2.2	0	0	0	0	0	0
7/11/2024 11:31	46803	HEPB_T2	1	1	0	0.2	0.1	-0.1	0.71	0.75	0	0	0	0	0	0
7/11/2024 11:31	46801	HEPB_T2	2	3	1	0.5	1	0.5	0.74	0.18	0	0	0	0	0	0
7/11/2024 11:34	52002	LING_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
7/11/2024 11:35	47403	PENS_T1	1	1	0	1.2	1.7	0.5	0	0	0	0	0	0	0	0
7/11/2024 11:35	47401	PENS_T1	2	2	0	0.7	0.3	-0.4	0.14	0.14	0	0	0	0	0	0
7/11/2024 11:36	67402	WAKE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 11:36	67401	WAKE_T2	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
7/11/2024 11:40	15203	SFAR_T2	5	4	-1	0.8	1.25	0.45	0	0	0	0	0	0	0	0
7/11/2024 11:40	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 11:41	60801	BUCK_T1	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
7/11/2024 11:45	15203	SFAR_T2	2	4	2	1.25	0.8	-0.45	0	0	0	0	0	0	0	0
7/11/2024 11:45	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 11:52	13904	SEID_T1	14	25	11	0.5	0.72	0.22	0.73	0.71	0	0	0	0	0	0
7/11/2024 11:52	13903	SEID_T1	3	4	1	0.87	0.5	-0.37	0	0	0	0	0	0	0	0
7/11/2024 11:52	66703	STRA_T1	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/11/2024 11:56	61103	BERK_T5	0	0	0	0	0	0	-0.19	-0.18	0	0	0	0	0	0
7/11/2024 11:58	61103	BERK_T5	0	0	0	0	0	0	-0.19	-0.18	0	0	0	0	0	0
7/11/2024 11:59	64204	KINZ_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
7/11/2024 11:59	64203	KINZ_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
7/11/2024 11:59	64201	KINZ_T1	0	2	2	0	0.3	0.3	0.14	0.17	4	4	0	2100	2100	0
7/11/2024 12:06	66504	SMAN_T2	1	5	4	0.1	0.2	0.1	0.73	0.69	0	0	0	0	0	0
7/11/2024 12:06	66505	SMAN_T2	2	5	3	0.55	0.67	0.12	0	0	0	0	0	0	0	0
7/11/2024 12:08	44301	BEAV_T2	1	0	-1	0.2	0	-0.2	-0.85	-0.84	2	2	0	1500	1500	0
7/11/2024 12:13	45802	HEGI_T2	215	149	-66	1.06	0.54	-0.52	0.86	0.78	2	2	0	1200	1200	0
7/11/2024 12:14	45802	HEGI_T2	215	149	-66	1.06	0.54	-0.52	0.86	0.78	2	2	0	1200	1200	0
7/11/2024 12:14	46203	DANV_T2	0	0	0	0	0	0	-1.32	-1.33	0	0	0	0	0	0
7/11/2024 12:14	46204	DANV_T2	1	3	2	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/11/2024 12:14	46206	DANV_T2	52	56	4	0.54	0.54	0	0	0	0	0	0	0	0	0
7/11/2024 12:15	47001	HUGH_T2	3	3	0	7.8	7.63	-0.17	-1.09	-1.06	1	1	0	900	900	0
7/11/2024 12:15	16401	MOPO_T1	0	0	0	0	0	0	0.89	0.82	0	0	0	0	0	0
7/11/2024 12:15	16402	MOPO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 12:16	44801	EDAN_T2	1	1	0	0.7	0.4	-0.3	-0.27	-0.29	0	0	0	0	0	0
7/11/2024 12:17	47001	HUGH_T2	3	3	0	7.8	7.63	-0.17	-1.09	-1.06	1	1	0	900	900	0
7/11/2024 12:24	55102	WERT_T2	0	0	0	0	0	0	-0.16	-0.2	2	2	0	1200	1200	0
7/11/2024 12:29	64204	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/11/2024 12:29	53903	HALI_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
7/11/2024 12:29	53901	HALI_T2	0	0	0	0	0	0	-0.58	-0.62	0	0	0	0	0	0
7/11/2024 12:29	53902	HALI_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
7/11/2024 12:29	64203	KINZ_T1	1	2	1	1.5	1.2	-0.3	0.05	0.39	3	3	0	2100	2100	0
7/11/2024 12:29	64201	KINZ_T1	2	8	6	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/11/2024 12:30	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/11/2024 12:30	24101	EHAZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/11/2024 12:30	64201	KINZ_T1	2	6	4	0.2	0	-0.2	0.32	0.55	4	4	0	2100	2100	0
7/11/2024 12:30	64203	KINZ_T1	2	2	0	1.35	1.4	0.05	0.05	0.39	3	3	0	2100	2100	0
7/11/2024 12:30	24105	EHAZ_T1	4	4	0	6.9	6.83	-0.07	0	0	0	0	0	0	0	0
7/11/2024 12:30	24102	EHAZ_T1	2	2	0	0.25	0.7	0.45	0.27	0.32	0	0	0	0	0	0
7/11/2024 12:31	17401	FOHI_T1	0	0	0	0	0	0	-1.41	-1.43	0	0	0	0	0	0
7/11/2024 12:38	58003	WCAR_T1	4	2	-2	0.53	0.8	0.27	0.55	0.49	1	1	0	600	600	0
7/11/2024 12:38	58001	WCAR_T1	4	4	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
7/11/2024 12:40	64203	KINZ_T1	2	2	0	1.35	1.4	0.05	0	0	0	0	0	0	0	0
7/11/2024 12:40	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/11/2024 12:40	64201	KINZ_T1	2	6	4	0.2	0	-0.2	0.55	-0.67	4	5	1	2100	3300	1200
7/11/2024 12:42	11802	FRAN_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/11/2024 12:42	11804	FRAN_T1	211	237	26	0.79	0.92	0.13	1.47	1.39	0	0	0	0	0	0
7/11/2024 12:44	52403	GRPA_T2	16	25	9	0.5	0.53	0.03	0.47	0.48	0	0	0	0	0	0
7/11/2024 12:48	55002	NEWP_T1	6	7	1	0.85	0.93	0.08	0	0	0	0	0	0	0	0
7/11/2024 12:48	65604	QVIL_T2	0	0	0	0	0	0	0.89	0.95	0	0	0	0	0	0
7/11/2024 12:49	55002	NEWP_T1	6	7	1	0.85	0.93	0.08	0	0	0	0	0	0	0	0
7/11/2024 12:50	65604	QVIL_T2	0	0	0	0	0	0	0.89	0.95	0	0	0	0	0	0
7/11/2024 12:51	60301	TWVA_T2	0	0	0	0	0	0	-2	-2.04	2	2	0	1800	1800	0
7/11/2024 12:51	55002	NEWP_T1	6	7	1	0.85	0.93	0.08	0	0	0	0	0	0	0	0
7/11/2024 12:53	20401	ASHF_T2	4	5	1	1.05	0.9	-0.15	0	0	0	0	0	0	0	0
7/11/2024 12:53	20402	ASHF_T2	6	4	-2	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/11/2024 12:53	20403	ASHF_T2	1	2	1	0.2	0.1	-0.1	1.94	1.89	0	0	0	0	0	0
7/11/2024 12:59	53903	HALI_T2	2	2	0	1.3	1.35	0.05	0.12	0.13	0	0	0	0	0	0
7/11/2024 12:59	63401	HONY_T1	0	0	0	0	0	0	0.98	0.62	2	2	0	1200	1200	0
7/11/2024 12:59	53902	HALI_T2	1	1	0	4.7	4.5	-0.2	0	0	0	0	0	0	0	0
7/11/2024 13:01	63402	HONY_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/11/2024 13:01	63403	HONY_T2	0	0	0	0	0	0	-1.74	-1.7	1	1	0	600	600	0
7/11/2024 13:01	63401	HONY_T1	0	0	0	0	0	0	0.49	0.31	1	1	0	600	600	0
7/11/2024 13:02	52004	LING_T2	0	0	0	0	0	0	0.39	0.31	0	0	0	0	0	0
7/11/2024 13:07	66201	SISP_T2	0	0	0	0	0	0	-1.61	-1.58	0	0	0	0	0	0
7/11/2024 13:07	66203	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 13:08	65802	RTWN_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
7/11/2024 13:11	29402	BELT_T1	1	1	0	9.2	9.3	0.1	0	0	0	0	0	0	0	0
7/11/2024 13:11	60803	BUCK_T1	0	0	0	0	0	0	-0.19	-0.18	1	1	0	600	600	0
7/11/2024 13:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/11/2024 13:13	29402	BELT_T1	1	1	0	9.2	9.3	0.1	0	0	0	0	0	0	0	0
7/11/2024 13:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/11/2024 13:31	53302	GRAT_T2	6	9	3	0.82	1.03	0.21	0	0	0	0	0	0	0	0
7/11/2024 13:37	17001	RIRO_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
7/11/2024 13:43	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/11/2024 13:44	11805	FRAN_T1	0	0	0	0	0	0	-2.28	-2.29	1	1	0	1200	1200	0
7/11/2024 13:44	11804	FRAN_T1	241	250	9	1.3	1.49	0.19	0	0	0	0	0	0	0	0
7/11/2024 13:48	64201	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/11/2024 13:48	64203	KINZ_T1	2	2	0	2.1	1.25	-0.85	0.65	0.61	3	3	0	2100	2100	0
7/11/2024 13:48	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/11/2024 13:48	64204	KINZ_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
7/11/2024 13:49	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/11/2024 13:49	12701	MACU_T1	0	0	0	0	0	0	-0.7	-0.68	1	1	0	1200	1200	0
7/11/2024 13:49	64204	KINZ_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
7/11/2024 13:49	64201	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/11/2024 13:49	64203	KINZ_T1	2	2	0	2.1	1.25	-0.85	0.65	0.61	3	3	0	2100	2100	0
7/11/2024 13:50	12701	MACU_T1	0	0	0	0	0	0	-0.7	-0.68	1	1	0	1200	1200	0
7/11/2024 13:55	29402	BELT_T1	1	1	0	9.2	9.2	0	0	0	0	0	0	0	0	0
7/11/2024 13:56	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/11/2024 13:56	64204	KINZ_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
7/11/2024 13:56	64201	KINZ_T1	2	0	-2	0.15	0	-0.15	-0.73	-0.66	5	5	0	3300	3300	0
7/11/2024 13:56	64203	KINZ_T1	2	2	0	2.1	1.25	-0.85	0	0	0	0	0	0	0	0
7/11/2024 13:57	56803	BENV_T1	0	1	1	0	9.1	9.1	0	0	0	0	0	0	0	0
7/11/2024 13:57	56801	BENV_T1	7	4	-3	0.54	0.38	-0.16	-0.34	-0.36	1	1	0	600	600	0
7/11/2024 13:59	53902	HALI_T2	1	1	0	5	4.8	-0.2	0	0	0	0	0	0	0	0
7/11/2024 13:59	53903	HALI_T2	2	2	0	1.1	0.8	-0.3	0.18	0.24	0	0	0	0	0	0
7/11/2024 14:00	40902	JESH_T1	0	0	0	0	0	0	-0.49	-0.54	3	3	0	1800	1800	0
7/11/2024 14:00	40901	JESH_T1	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
7/11/2024 14:01	53902	HALI_T2	1	1	0	4.8	4.2	-0.6	0	0	0	0	0	0	0	0
7/11/2024 14:01	53903	HALI_T2	2	2	0	0.8	0.8	0	0.09	0.12	0	0	0	0	0	0
7/11/2024 14:19	65603	QVIL_T2	0	0	0	0	0	0	1.02	1.03	0	0	0	0	0	0
7/11/2024 14:21	65604	QVIL_T2	0	0	0	0	0	0	0.93	1.02	0	0	0	0	0	0
7/11/2024 14:23	65604	QVIL_T2	0	0	0	0	0	0	0.93	1.02	0	0	0	0	0	0
7/11/2024 14:28	61702	ELIZ_T2	0	0	0	0	0	0	-1.09	-1.04	2	2	0	1500	1500	0
7/11/2024 14:29	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/11/2024 14:29	29402	BELT_T1	1	1	0	9.2	9.4	0.2	0	0	0	0	0	0	0	0
7/11/2024 14:31	64202	KINZ_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/11/2024 14:31	64204	KINZ_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
7/11/2024 14:31	64203	KINZ_T1	2	2	0	1.2	0.95	-0.25	0.52	0.33	3	3	0	2100	2100	0
7/11/2024 14:32	63401	HONY_T1	0	0	0	0	0	0	0.6	0.62	1	1	0	600	600	0
7/11/2024 14:32	64204	KINZ_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
7/11/2024 14:32	64202	KINZ_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/11/2024 14:32	64203	KINZ_T1	2	2	0	1.2	0.95	-0.25	0.52	0.33	3	3	0	2100	2100	0
7/11/2024 14:40	29402	BELT_T1	1	1	0	9.4	9.4	0	0	0	0	0	0	0	0	0
7/11/2024 14:40	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/11/2024 14:47	12701	MACU_T1	1	1	0	1	0.2	-0.8	-0.64	-0.62	1	1	0	1200	1200	0
7/11/2024 14:53	14101	TRUM_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
7/11/2024 14:53	14103	TRUM_T2	20	43	23	0.8	0.74	-0.06	0	0	0	0	0	0	0	0
7/11/2024 15:06	51004	NHAR_T1	1	1	0	7.3	7	-0.3	0	0	0	0	0	0	0	0
7/11/2024 15:06	51003	NHAR_T1	0	0	0	0	0	0	-2.01	-2.09	1	1	0	1200	1200	0
7/11/2024 15:10	45303	WBER_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
7/11/2024 15:15	54501	ENOL_T2	0	0	0	0	0	0	-0.12	-0.08	1	1	0	600	600	0
7/11/2024 15:15	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 15:16	64305	LINC_T1	1	1	0	0.3	0.1	-0.2	0.55	0.59	0	0	0	0	0	0
7/11/2024 15:17	20601	GRWO_T2	80	55	-25	0.65	0.33	-0.32	0	0	0	0	0	0	0	0
7/11/2024 15:17	20603	GRWO_T2	0	0	0	0	0	0	-0.3	-0.33	1	1	0	900	900	0
7/11/2024 15:17	64305	LINC_T1	1	1	0	0.3	0.1	-0.2	0.55	0.59	0	0	0	0	0	0
7/11/2024 15:18	40602	PIGR_T1	1	1	0	0.7	1	0.3	-2.15	-2.22	2	2	0	1200	1200	0
7/11/2024 15:18	56501	ROCK_T2	1	1	0	0.3	0	-0.3	-1.1	-1.09	0	0	0	0	0	0
7/11/2024 15:20	65604	QVIL_T2	0	2	2	0	0.2	0.2	1.06	1.05	0	0	0	0	0	0
7/11/2024 15:21	24101	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 15:21	24105	EHAZ_T1	4	4	0	6.45	6.53	0.08	0	0	0	0	0	0	0	0
7/11/2024 15:21	24104	EHAZ_T1	0	0	0	0	0	0	-1.58	-1.56	1	1	0	1200	1200	0
7/11/2024 15:21	24102	EHAZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/11/2024 15:23	13604	RICH_T2	0	0	0	0	0	0	-1.89	-1.96	3	3	0	2100	2100	0
7/11/2024 15:23	13606	RICH_T2	9	12	3	1.2	1.28	0.08	0	0	0	0	0	0	0	0
7/11/2024 15:25	52001	LING_T1	0	0	0	0	0	0	0.92	0.92	0	0	0	0	0	0
7/11/2024 15:25	52002	LING_T2	12	8	-4	0.22	0	-0.22	0	0	0	0	0	0	0	0
7/11/2024 15:25	52004	LING_T2	0	0	0	0	0	0	0.23	0.18	0	0	0	0	0	0
7/11/2024 15:28	63401	HONY_T1	0	0	0	0	0	0	0.55	0.45	1	1	0	600	600	0
7/11/2024 15:32	64203	KINZ_T1	1	2	1	1.4	0.85	-0.55	0.47	0.46	3	3	0	2100	2100	0
7/11/2024 15:32	64204	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/11/2024 15:32	63401	HONY_T1	0	0	0	0	0	0	0.55	0.45	1	1	0	600	600	0
7/11/2024 15:33	64203	KINZ_T1	1	2	1	1.4	0.85	-0.55	0.47	0.46	3	3	0	2100	2100	0
7/11/2024 15:33	64204	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/11/2024 15:34	65604	QVIL_T2	2	1	-1	0.2	0	-0.2	1.05	1.07	0	0	0	0	0	0
7/11/2024 15:37	43304	WATS_T2	3	3	0	0.57	0.25	-0.32	-0.66	-0.71	1	1	0	600	600	0
7/11/2024 15:38	52002	LING_T2	8	0	-8	0.39	0	-0.39	1.07	0	0	0	0	0	0	0
7/11/2024 15:39	52002	LING_T2	8	0	-8	0.39	0	-0.39	1.6	0	0	0	0	0	0	0
7/11/2024 15:47	46001	BERW_T1	0	0	0	0	0	0	3.24	0.7	0	0	0	0	0	0
7/11/2024 15:48	46001	BERW_T1	0	0	0	0	0	0	1.62	0.35	0	0	0	0	0	0
7/11/2024 15:48	64802	MONE_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
7/11/2024 15:52	65603	QVIL_T2	0	0	0	0	0	0	0.16	0.29	0	0	0	0	0	0
7/11/2024 15:52	65604	QVIL_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/11/2024 15:54	60803	BUCK_T1	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
7/11/2024 15:54	60801	BUCK_T1	0	0	0	0	0	0	0.07	-0.03	1	1	0	600	600	0
7/11/2024 15:58	21206	ECAR_T2	1	1	0	8	8.1	0.1	0.24	0.22	0	0	0	0	0	0
7/11/2024 15:58	60801	BUCK_T1	0	0	0	0	0	0	0.07	-0.03	1	1	0	600	600	0
7/11/2024 15:58	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 15:58	60803	BUCK_T1	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
7/11/2024 16:01	44601	SALE_T2	8	0	-8	0.73	0	-0.73	0	0	2	1	-1	900	600	-300
7/11/2024 16:02	44601	SALE_T2	8	0	-8	0.73	0	-0.73	0	0	2	1	-1	900	600	-300
7/11/2024 16:06	66505	SMAN_T2	2	3	1	0.3	0.1	-0.2	0.19	0.28	4	4	0	2300	2300	0
7/11/2024 16:06	66504	SMAN_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/11/2024 16:06	42902	MIDD_T2	0	0	0	0	0	0	-0.12	-0.32	2	0	-2	1200	0	-1200
7/11/2024 16:06	42903	MIDD_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
7/11/2024 16:07	42902	MIDD_T2	0	0	0	0	0	0	-0.06	-0.16	0	0	0	0	0	0
7/11/2024 16:07	42903	MIDD_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
7/11/2024 16:08	66505	SMAN_T2	2	3	1	0.3	0.1	-0.2	0.19	0.28	4	3	-1	2300	2100	-200
7/11/2024 16:08	66504	SMAN_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/11/2024 16:11	42903	MIDD_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/11/2024 16:11	29402	BELT_T1	1	1	0	9.3	9.1	-0.2	0	0	0	0	0	0	0	0
7/11/2024 16:11	42902	MIDD_T2	0	0	0	0	0	0	-0.06	-0.16	0	0	0	0	0	0
7/11/2024 16:25	11507	FREE_T2	108	125	17	0.59	0.6	0.01	1.55	1.62	1	1	0	600	600	0
7/11/2024 16:32	44801	EDAN_T2	0	1	1	0	0	0	-1.21	-1.24	0	0	0	0	0	0
7/11/2024 16:33	47401	PENS_T1	1	6	5	0.2	0.75	0.55	0.61	0.58	0	0	0	0	0	0
7/11/2024 16:33	43202	MVIL_T2	0	46	46	0	0.24	0.24	-0.39	-0.44	0	0	0	0	0	0
7/11/2024 16:33	47402	PENS_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 16:34	47402	PENS_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 16:34	47401	PENS_T1	1	6	5	0.2	0.75	0.55	0.61	0.58	0	0	0	0	0	0
7/11/2024 16:35	40502	CRES_T2	2	3	1	0.15	0.2	0.05	-0.27	-0.25	0	0	0	0	0	0
7/11/2024 16:35	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 16:36	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 16:36	40502	CRES_T2	2	3	1	0.15	0.2	0.05	-0.54	-0.5	0	0	0	0	0	0
7/11/2024 16:37	40502	CRES_T2	2	3	1	0.15	0.2	0.05	-0.25	-0.31	0	0	0	0	0	0
7/11/2024 16:37	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 16:38	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 16:38	40502	CRES_T2	2	3	1	0.15	0.2	0.05	-0.5	-0.62	0	0	0	0	0	0
7/11/2024 16:39	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 16:39	40502	CRES_T2	2	3	1	0.15	0.2	0.05	-1.25	-1.54	0	0	0	0	0	0
7/11/2024 16:46	45702	LIND_T2	4	3	-1	0.38	0.43	0.05	-1.34	-1.35	0	0	0	0	0	0
7/11/2024 16:51	44201	POIN_T1	0	0	0	0	0	0	-1.68	-1.69	2	2	0	2100	2100	0
7/11/2024 16:53	44201	POIN_T1	0	0	0	0	0	0	-1.68	-1.69	2	2	0	2100	2100	0
7/11/2024 16:56	64204	KINZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/11/2024 16:56	64203	KINZ_T1	2	1	-1	1.05	0	-1.05	0.17	-1	3	3	0	2100	2100	0
7/11/2024 16:57	64203	KINZ_T1	2	1	-1	1.05	0	-1.05	0.17	-1	3	3	0	2100	2100	0
7/11/2024 16:57	64204	KINZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/11/2024 17:01	40802	EXCH_T2	3	3	0	0.13	0.13	0	-1.98	-2.1	0	0	0	0	0	0
7/11/2024 17:01	40801	EXCH_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/11/2024 17:14	64203	KINZ_T1	1	0	-1	0.8	0	-0.8	-1	-0.2	3	2	-1	2100	900	-1200
7/11/2024 17:14	64204	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/11/2024 17:17	64204	KINZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/11/2024 17:17	64203	KINZ_T1	0	3	3	0	0	0	-1	-0.2	3	2	-1	2100	900	-1200
7/11/2024 17:18	64204	KINZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/11/2024 17:18	64203	KINZ_T1	0	3	3	0	0	0	-1	-0.2	3	2	-1	2100	900	-1200
7/11/2024 17:21	64203	KINZ_T1	0	3	3	0	0	0	-0.2	-0.18	3	2	-1	2100	900	-1200
7/11/2024 17:21	64204	KINZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/11/2024 17:22	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 17:23	59101	WALK_T2	0	0	0	0	0	0	1.25	1.2	1	1	0	600	600	0
7/11/2024 17:23	55405	SHER_T1	0	3	3	0	0.13	0.13	0.23	0.22	0	0	0	0	0	0
7/11/2024 17:27	14204	EAU_T2	0	0	0	0	0	0	-0.32	-0.28	1	1	0	1200	1200	0
7/11/2024 17:28	11205	ELHE_T1	1	0	-1	3.3	0	-3.3	-1.23	-1.24	1	1	0	1200	1200	0
7/11/2024 17:29	63401	HONY_T1	0	0	0	0	0	0	0.24	0.29	1	1	0	600	600	0
7/11/2024 17:32	64902	MILL_T2	0	0	0	0	0	0	-1.14	-1.15	2	2	0	1800	1800	0
7/11/2024 17:32	64903	MILL_T2	2	10	8	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
7/11/2024 17:32	46102	MACI_T1	0	0	0	0	0	0	1.18	1.15	0	0	0	0	0	0
7/11/2024 17:33	46101	MACI_T2	0	0	0	0	0	0	-0.41	-0.41	1	1	0	1200	1200	0
7/11/2024 17:37	65205	PRIN_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
7/11/2024 17:37	67201	TEHI_T1	0	5	5	0	0.16	0.16	0.23	0.18	1	1	0	600	600	0
7/11/2024 17:37	67203	TEHI_T1	2	4	2	0.7	0.9	0.2	0	0	0	0	0	0	0	0
7/11/2024 17:52	14603	SWHI_T1	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1200	1200	0
7/11/2024 17:55	57101	SPHI_T2	0	6	6	0	0.47	0.47	0	0	0	0	0	0	0	0
7/11/2024 17:55	57104	SPHI_T2	0	0	0	0	0	0	-1.03	-0.98	1	1	0	900	900	0
7/11/2024 17:55	57106	SPHI_T2	3	3	0	0.97	0.83	-0.14	0	0	0	0	0	0	0	0
7/11/2024 18:00	63401	HONY_T1	0	0	0	0	0	0	0.27	0.28	1	1	0	600	600	0
7/11/2024 18:09	22002	BOHE_T1	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
7/11/2024 18:09	22003	BOHE_T1	26	17	-9	0.1	0.11	0.01	0	0	0	0	0	0	0	0
7/11/2024 18:14	11102	EGYP_T1	3	6	3	0.63	0.85	0.22	0	0	0	0	0	0	0	0
7/11/2024 18:14	11103	EGYP_T1	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
7/11/2024 18:14	11104	EGYP_T1	5	5	0	1.98	1.4	-0.58	0	0	0	0	0	0	0	0
7/11/2024 18:15	11103	EGYP_T1	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
7/11/2024 18:15	10701	CATA_T2	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
7/11/2024 18:15	11102	EGYP_T1	3	6	3	0.73	0.54	-0.19	0	0	0	0	0	0	0	0
7/11/2024 18:15	10705	CATA_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
7/11/2024 18:15	11104	EGYP_T1	5	6	1	1.76	1.36	-0.4	0	0	0	0	0	0	0	0
7/11/2024 18:18	22701	MINO_T1	0	0	0	0	0	0	-0.5	-0.45	1	1	0	600	600	0
7/11/2024 18:23	41903	REED_T1	0	0	0	0	0	0	0.4	0.48	1	1	0	1200	1200	0
7/11/2024 18:23	41901	REED_T1	9	9	0	0.66	0.89	0.23	0	0	0	0	0	0	0	0
7/11/2024 18:25	44201	WOIN_T1	0	4	4	0	0.1	0.1	-1.73	-1.71	2	2	0	2100	2100	0
7/11/2024 18:26	12803	MICK_T1	0	0	0	0	0	0	0.29	0.19	1	1	0	1200	1200	0
7/11/2024 18:26	12807	MICK_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/11/2024 18:30	10901	COOP_T2	0	0	0	0	0	0	-0.08	-0.11	1	1	0	1200	1200	0
7/11/2024 18:31	42701	AUGU_T1	0	1	1	0	0	0	0	0	2	2	0	1800	1800	0
7/11/2024 18:31	63305	GREE_T1	3	3	0	0.23	0.2	-0.03	-3.27	-3.27	2	2	0	1800	1800	0
7/11/2024 18:35	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/11/2024 18:35	65601	QVIL_T2	0	0	0	0	0	0	0.38	0.32	1	1	0	900	900	0
7/11/2024 18:35	65602	QVIL_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
7/11/2024 18:35	65604	QVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/11/2024 18:35	66504	SMAN_T2	2	1	-1	0.3	0	-0.3	0.73	0.78	0	0	0	0	0	0
7/11/2024 18:42	11904	ETEX_T2	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
7/11/2024 18:42	67502	WEWI_T2	0	0	0	0	0	0	-0.75	-0.71	1	1	0	900	900	0
7/11/2024 18:44	12006	HATF_T1	0	0	0	0	0	0	0.27	0.23	2	2	0	2400	2400	0
7/11/2024 18:44	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 18:45	41602	CLEV_T1	1	1	0	1	0.2	-0.8	0	0	1	1	0	600	600	0
7/11/2024 18:46	11904	ETEX_T2	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
7/11/2024 18:49	64903	MILL_T2	14	29	15	0.19	0.34	0.15	0	0	0	0	0	0	0	0
7/11/2024 18:49	64902	MILL_T2	0	0	0	0	0	0	-0.69	-0.63	1	1	0	900	900	0
7/11/2024 18:50	52501	PROG_T1	0	1	1	0	0.1	0.1	0.69	0.65	1	1	0	300	300	0
7/11/2024 18:50	52504	PROG_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
7/11/2024 18:51	52504	PROG_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
7/11/2024 18:51	52501	PROG_T1	0	1	1	0	0.1	0.1	0.69	0.65	1	1	0	300	300	0
7/11/2024 18:53	65602	QVIL_T2	1	0	-1	1	0.6	-0.4	0	0	0	0	0	0	0	0
7/11/2024 18:53	40602	PIGR_T1	1	1	0	0.6	0.9	0.3	-1.23	-1.26	1	1	0	600	600	0
7/11/2024 18:53	40603	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/11/2024 18:53	65603	QVIL_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
7/11/2024 18:54	52501	PROG_T1	0	1	1	0	0.1	0.1	0.65	0.67	1	1	0	300	300	0
7/11/2024 18:54	52504	PROG_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
7/11/2024 18:55	46001	BERW_T1	0	0	0	0	0	0	1.05	1.05	0	0	0	0	0	0
7/11/2024 18:56	46001	BERW_T1	0	0	0	0	0	0	1.05	1.05	0	0	0	0	0	0
7/11/2024 18:58	28102	TWLA_T2	0	1	1	0	0	0	0.36	0.36	0	0	0	0	0	0
7/11/2024 19:00	11104	EGYP_T1	5	5	0	1.34	0.7	-0.64	0.93	0.9	0	0	0	0	0	0
7/11/2024 19:00	11102	EGYP_T1	1	1	0	1.4	0.6	-0.8	0	0	0	0	0	0	0	0
7/11/2024 19:09	44201	POIN_T1	3	5	2	0.1	0.12	0.02	-1.68	-1.68	2	2	0	2100	2100	0
7/11/2024 19:09	57103	SPHI_T2	0	0	0	0	0	0	0.37	0.36	1	1	0	600	600	0
7/11/2024 19:09	57106	SPHI_T2	3	3	0	0.6	0.77	0.17	0	0	0	0	0	0	0	0
7/11/2024 19:09	57101	SPHI_T2	6	6	0	1.13	0.45	-0.68	0	0	0	0	0	0	0	0
7/11/2024 19:11	24901	WHHA_T1	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
7/11/2024 19:11	24902	WHHA_T1	13	14	1	0.52	0.65	0.13	0	0	0	0	0	0	0	0
7/11/2024 19:14	50105	HARR_T3	6	6	0	6.07	5.85	-0.22	0	0	0	0	0	0	0	0
7/11/2024 19:14	50201	HARR_T3	2	2	0	4.75	5.3	0.55	0	0	0	0	0	0	0	0
7/11/2024 19:14	50107	HARR_T3	1	1	0	7.3	6.8	-0.5	0.91	0.88	0	0	0	0	0	0
7/11/2024 19:14	50103	HARR_T3	2	2	0	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
7/11/2024 19:14	50106	HARR_T3	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/11/2024 19:16	12601	MACA_T1	0	0	0	0	0	0	1.31	1.28	0	0	0	0	0	0
7/11/2024 19:16	12606	MACA_T1	20	17	-3	0.46	0.13	-0.33	0	0	0	0	0	0	0	0
7/11/2024 19:17	13503	MCMI_T2	0	0	0	0	0	0	-0.66	0.27	0	0	0	0	0	0
7/11/2024 19:18	13501	MCMI_T1	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
7/11/2024 19:22	67401	WAKE_T2	0	0	0	0	0	0	-0.5	-0.54	0	0	0	0	0	0
7/11/2024 19:22	67402	WAKE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 19:24	67402	WAKE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 19:24	67401	WAKE_T2	0	0	0	0	0	0	-0.5	-0.54	0	0	0	0	0	0
7/11/2024 19:24	52002	LING_T2	0	0	0	0	0	0	-0.07	-0.15	0	0	0	0	0	0
7/11/2024 19:25	52002	LING_T2	0	0	0	0	0	0	-0.07	-0.15	0	0	0	0	0	0
7/11/2024 19:27	11103	EGYP_T1	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
7/11/2024 19:27	11104	EGYP_T1	5	5	0	0.9	0.42	-0.48	0	0	0	0	0	0	0	0
7/11/2024 19:27	11102	EGYP_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/11/2024 19:29	64204	KINZ_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
7/11/2024 19:29	64203	KINZ_T1	0	0	0	0	0	0	0	0.41	2	1	-1	900	600	-300
7/11/2024 19:40	55102	WERT_T2	0	0	0	0	0	0	-0.36	-0.38	1	1	0	600	600	0
7/11/2024 19:40	14601	SWHI_T1	0	0	0	0	0	0	0.48	0.42	0	0	0	0	0	0
7/11/2024 19:41	16301	ALPA_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
7/11/2024 19:45	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/11/2024 19:45	64204	KINZ_T1	1	3	2	0.9	0.9	0	0	0	0	0	0	0	0	0
7/11/2024 19:45	64203	KINZ_T1	0	0	0	0	0	0	0.41	0.27	1	1	0	600	600	0
7/11/2024 19:54	61102	BERK_T5	0	0	0	0	0	0	0.49	0.41	1	1	0	300	300	0
7/11/2024 19:56	42501	ALTA_T2	0	0	0	0	0	0	-0.81	-0.84	1	1	0	600	600	0
7/11/2024 19:56	42504	ALTA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/11/2024 20:00	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/11/2024 20:00	64203	KINZ_T1	0	0	0	0	0	0	0.27	0.15	1	1	0	600	600	0
7/11/2024 20:00	64202	KINZ_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/11/2024 20:09	56802	BENV_T2	4	8	4	0.23	0.25	0.02	-0.8	-0.82	0	0	0	0	0	0
7/11/2024 20:15	53301	GRAT_T1	0	0	0	0	0	0	0.43	0.43	1	1	0	450	450	0
7/11/2024 20:33	22602	KIMB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 20:37	44801	EDAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/11/2024 20:37	44802	EDAN_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
7/11/2024 20:38	58402	MORO_T1	6	0	-6	0.12	0	-0.12	-0.77	-0.72	4	4	0	2850	2850	0
7/11/2024 20:58	44802	EDAN_T2	0	0	0	0	0	0	-0.46	-0.43	0	0	0	0	0	0
7/11/2024 20:58	44801	EDAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/11/2024 21:02	44802	EDAN_T2	0	0	0	0	0	0	-0.92	-0.86	0	0	0	0	0	0
7/11/2024 21:02	44801	EDAN_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/11/2024 21:03	44802	EDAN_T2	0	0	0	0	0	0	-0.92	-0.86	0	0	0	0	0	0
7/11/2024 21:03	44801	EDAN_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/11/2024 21:05	44801	EDAN_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/11/2024 21:05	44802	EDAN_T2	0	0	0	0	0	0	-0.46	-0.43	0	0	0	0	0	0
7/11/2024 21:45	60803	BUCK_T1	15	18	3	0.45	0.69	0.24	0	0	0	0	0	0	0	0
7/11/2024 21:45	60801	BUCK_T1	5	39	34	0.16	0.36	0.2	0	0	0	0	0	0	0	0
7/11/2024 21:52	59101	WALK_T2	0	0	0	0	0	0	1.37	1.23	1	1	0	600	600	0
7/11/2024 21:55	59101	WALK_T2	0	0	0	0	0	0	2.75	2.47	2	2	0	1200	1200	0
7/11/2024 21:55	66703	STRA_T1	0	3	3	0	0.13	0.13	0.15	0.17	0	0	0	0	0	0
7/11/2024 22:11	13501	MCMI_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
7/11/2024 22:13	23201	HIRU_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/11/2024 22:13	23202	HIRU_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
7/11/2024 22:14	28102	TWLA_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
7/11/2024 22:16	44201	POIN_T1	62	68	6	0.19	0.2	0.01	-1.86	-1.87	2	2	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/11/2024 22:16	16902	MECK_T1	1	0	-1	0.1	0	-0.1	0.17	0.17	0	0	0	0	0	0
7/11/2024 22:19	16902	MECK_T1	1	0	-1	0.1	0	-0.1	0.17	0.17	0	0	0	0	0	0
7/11/2024 22:19	29402	BELT_T1	6	8	2	1.7	1.35	-0.35	0	0	0	0	0	0	0	0
7/11/2024 22:20	13503	MCMI_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
7/11/2024 22:22	67401	WAKE_T2	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
7/11/2024 22:26	44201	POIN_T1	62	68	6	0.19	0.2	0.01	-1.87	-1.88	2	2	0	2100	2100	0
7/11/2024 22:27	46801	HEPB_T2	19	29	10	0.41	0.33	-0.08	0	0	0	0	0	0	0	0
7/11/2024 22:27	42903	MIDD_T2	2	2	0	1	0.35	-0.65	0	0	0	0	0	0	0	0
7/11/2024 22:27	21204	ECAR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/11/2024 22:27	13503	MCMI_T2	0	0	0	0	0	0	0.21	0.16	0	0	0	0	0	0
7/11/2024 22:27	22002	BOHE_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
7/11/2024 22:27	42902	MIDD_T2	0	0	0	0	0	0	-0.69	-0.69	1	1	0	600	600	0
7/11/2024 22:27	21206	ECAR_T2	6	2	-4	1.62	8	6.38	0.31	0.3	0	0	0	0	0	0
7/11/2024 22:27	22003	BOHE_T1	21	51	30	0.12	0.17	0.05	0	0	0	0	0	0	0	0
7/11/2024 22:27	46803	HEPB_T2	5	9	4	0.18	0.16	-0.02	0.66	0.62	0	0	0	0	0	0
7/11/2024 22:28	29402	BELT_T1	6	8	2	1.7	1.35	-0.35	0	0	0	0	0	0	0	0
7/11/2024 22:28	22001	BOHE_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
7/11/2024 22:28	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/11/2024 22:28	22003	BOHE_T1	21	51	30	0.12	0.17	0.05	0	0	0	0	0	0	0	0
7/11/2024 22:28	46206	DANV_T2	1	1	0	0.9	0.5	-0.4	2.24	2.24	2	2	0	2100	2100	0
7/11/2024 22:29	45702	LIND_T2	0	0	0	0	0	0	-0.17	-0.23	0	0	0	0	0	0
7/11/2024 22:29	29402	BELT_T1	6	8	2	1.7	1.35	-0.35	0	0	0	0	0	0	0	0
7/11/2024 22:30	40502	CRES_T2	0	9	9	0	0.2	0.2	-1.22	-1.28	0	0	0	0	0	0
7/11/2024 22:30	20401	ASHF_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
7/11/2024 22:30	11103	EGYP_T1	0	0	0	0	0	0	0.6	0.57	0	0	0	0	0	0
7/11/2024 22:30	67605	WARW_T1	3	3	0	0.37	0.73	0.36	-1	-1.07	0	0	0	0	0	0
7/11/2024 22:30	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 22:30	11104	EGYP_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/11/2024 22:31	46206	DANV_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/11/2024 22:31	40502	CRES_T2	0	9	9	0	0.2	0.2	-0.61	-0.64	0	0	0	0	0	0
7/11/2024 22:31	46203	DANV_T2	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
7/11/2024 22:31	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 22:31	65604	QVIL_T2	2	0	-2	0.15	0	-0.15	0.75	0.71	0	0	0	0	0	0
7/11/2024 22:31	65601	QVIL_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/11/2024 22:32	40802	EXCH_T2	0	0	0	0	0	0	-0.22	-0.26	0	0	0	0	0	0
7/11/2024 22:32	42902	MIDD_T2	0	0	0	0	0	0	-0.69	-0.69	1	1	0	600	600	0
7/11/2024 22:32	13503	MCMI_T2	0	0	0	0	0	0	0.21	0.16	0	0	0	0	0	0
7/11/2024 22:32	47001	HUGH_T2	3	3	0	7.83	6.77	-1.06	-0.38	-0.49	0	0	0	0	0	0
7/11/2024 22:32	16302	ALPA_T2	0	0	0	0	0	0	1.01	0.99	0	0	0	0	0	0
7/11/2024 22:32	46206	DANV_T2	1	1	0	0.6	0.3	-0.3	2.24	2.24	2	2	0	2100	2100	0
7/11/2024 22:32	11904	ETEX_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
7/11/2024 22:32	42903	MIDD_T2	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
7/11/2024 22:32	11103	EGYP_T1	0	0	0	0	0	0	0.6	0.57	0	0	0	0	0	0
7/11/2024 22:32	11104	EGYP_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/11/2024 22:32	46001	BERW_T1	0	0	0	0	0	0	1.01	0.95	0	0	0	0	0	0
7/11/2024 22:32	59101	WALK_T2	0	0	0	0	0	0	1.17	1.07	1	1	0	600	600	0
7/11/2024 22:32	10705	CATA_T2	0	0	0	0	0	0	-0.65	-0.71	0	0	0	0	0	0
7/11/2024 22:33	24105	EHAZ_T1	4	4	0	6.18	6.03	-0.15	0	0	0	0	0	0	0	0
7/11/2024 22:33	64204	KINZ_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
7/11/2024 22:33	13503	MCMI_T2	0	0	0	0	0	0	0.21	0.16	0	0	0	0	0	0
7/11/2024 22:33	24102	EHAZ_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
7/11/2024 22:33	14204	EALL_T2	0	0	0	0	0	0	0.11	0.15	1	1	0	1200	1200	0
7/11/2024 22:33	12803	MICK_T1	0	0	0	0	0	0	0.03	0	1	1	0	1200	1200	0
7/11/2024 22:33	64201	KINZ_T1	1	1	0	1	1	0	0.51	0.49	2	2	0	600	600	0
7/11/2024 22:33	56802	BENV_T2	0	0	0	0	0	0	-0.31	-0.41	0	0	0	0	0	0
7/11/2024 22:33	64202	KINZ_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
7/11/2024 22:33	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/11/2024 22:33	24104	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/11/2024 22:34	50201	HARR_T3	1	2	1	9.6	9.6	0	0	0	0	0	0	0	0	0
7/11/2024 22:34	50103	HARR_T3	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
7/11/2024 22:34	20403	ASHF_T2	0	0	0	0	0	0	0.62	0.56	0	0	0	0	0	0
7/11/2024 22:34	12801	MICK_T1	0	0	0	0	0	0	-0.78	-0.88	1	1	0	600	600	0
7/11/2024 22:34	44201	POIN_T1	63	72	9	0.19	0.2	0.01	-1.87	-1.88	2	2	0	2100	2100	0
7/11/2024 22:34	43402	BENT_T1	0	0	0	0	0	0	-0.82	-0.82	1	1	0	900	900	0
7/11/2024 22:34	12701	MACU_T1	0	0	0	0	0	0	-0.91	-0.96	1	1	0	1200	1200	0
7/11/2024 22:34	50105	HARR_T3	6	6	0	5.88	5.78	-0.1	0	0	0	0	0	0	0	0
7/11/2024 22:34	45702	LIND_T2	0	0	0	0	0	0	-0.17	-0.23	0	0	0	0	0	0
7/11/2024 22:34	50107	HARR_T3	1	1	0	7.6	7.1	-0.5	0.84	0.85	0	0	0	0	0	0
7/11/2024 22:35	41901	REED_T1	9	6	-3	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
7/11/2024 22:35	44601	SALE_T2	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
7/11/2024 22:35	46001	BERW_T1	0	0	0	0	0	0	1.01	0.95	0	0	0	0	0	0
7/11/2024 22:35	41902	REED_T1	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/11/2024 22:35	41903	REED_T1	0	0	0	0	0	0	0.31	0.21	1	1	0	1200	1200	0
7/11/2024 22:35	47401	PENS_T1	0	0	0	0	0	0	0.25	0.13	0	0	0	0	0	0
7/11/2024 22:35	24902	WHHA_T1	13	10	-3	0.64	0.43	-0.21	1.75	1.77	0	0	0	0	0	0
7/11/2024 22:35	52004	LING_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
7/11/2024 22:36	63402	HONY_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
7/11/2024 22:36	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 22:36	16302	ALPA_T2	0	0	0	0	0	0	0.99	1.02	0	0	0	0	0	0
7/11/2024 22:36	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.72	-0.71	0	0	0	0	0	0
7/11/2024 22:36	63403	HONY_T2	0	0	0	0	0	0	-0.73	-0.77	0	0	0	0	0	0
7/11/2024 22:36	14603	SWHI_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
7/11/2024 22:36	46001	BERW_T1	0	0	0	0	0	0	0.95	0.95	0	0	0	0	0	0
7/11/2024 22:37	46101	MACI_T2	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
7/11/2024 22:37	11904	ETEX_T2	0	0	0	0	0	0	-0.53	-0.6	0	0	0	0	0	0
7/11/2024 22:37	42902	MIDD_T2	0	0	0	0	0	0	-0.69	-0.76	1	1	0	600	600	0
7/11/2024 22:37	43304	WATS_T2	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
7/11/2024 22:37	42903	MIDD_T2	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
7/11/2024 22:37	11104	EGYP_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/11/2024 22:37	24104	EHAZ_T1	0	1	1	0	0.1	0.1	-1.73	-1.71	1	1	0	1200	1200	0
7/11/2024 22:37	52002	LING_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
7/11/2024 22:37	11103	EGYP_T1	0	0	0	0	0	0	0.57	0.6	0	0	0	0	0	0
7/11/2024 22:37	24105	EHAZ_T1	4	4	0	6.18	6.03	-0.15	0	0	0	0	0	0	0	0
7/11/2024 22:38	11507	FREE_T2	5	5	0	0.58	0.2	-0.38	1.01	0.92	1	1	0	600	600	0
7/11/2024 22:38	16302	ALPA_T2	0	0	0	0	0	0	0.99	1.02	0	0	0	0	0	0
7/11/2024 22:38	59101	WALK_T2	0	0	0	0	0	0	1.07	1.32	1	1	0	600	600	0
7/11/2024 22:39	46203	DANV_T2	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
7/11/2024 22:39	46206	DANV_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/11/2024 22:39	12006	HATF_T1	0	0	0	0	0	0	-0.52	-0.59	2	2	0	2400	2400	0
7/11/2024 22:40	59101	WALK_T2	0	0	0	0	0	0	1.07	1.32	1	1	0	600	600	0
7/11/2024 22:40	12701	MACU_T1	0	0	0	0	0	0	-0.96	-0.94	1	1	0	1200	1200	0
7/11/2024 22:40	13503	MCMI_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
7/11/2024 22:40	40902	JESH_T1	0	0	0	0	0	0	-0.98	-0.98	1	1	0	600	600	0
7/11/2024 22:40	40901	JESH_T1	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
7/11/2024 22:40	47001	HUGH_T2	3	3	0	7.83	6.77	-1.06	-0.49	-0.5	0	0	0	0	0	0
7/11/2024 22:41	47001	HUGH_T2	3	3	0	7.83	6.77	-1.06	-0.49	-0.5	0	0	0	0	0	0
7/11/2024 22:41	20403	ASHF_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
7/11/2024 22:41	44601	SALE_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
7/11/2024 22:41	47401	PENS_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
7/11/2024 22:41	65802	RTWN_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
7/11/2024 22:42	60501	NMAN_T2	3	3	0	4.17	4.33	0.16	0	0	0	0	0	0	0	0
7/11/2024 22:42	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 22:42	14404	SSLA_T1	2	0	0	2.05	2.2	0.15	0	0	0	0	0	0	0	0
7/11/2024 22:42	14401	SSLA_T1	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
7/11/2024 22:42	10901	COOP_T2	0	0	0	0	0	0	0.93	0.89	0	0	0	0	0	0
7/11/2024 22:42	46001	BERW_T1	0	0	0	0	0	0	1.9	1.9	0	0	0	0	0	0
7/11/2024 22:42	66505	SMAN_T2	0	0	0	0	0	0	-0.05	-0.23	3	3	0	2100	2100	0
7/11/2024 22:42	61103	BERK_T5	0	0	0	0	0	0	0.41	0.36	0	0	0	0	0	0
7/11/2024 22:42	60502	NMAN_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
7/11/2024 22:42	53302	GRAT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 22:43	64203	KINZ_T1	0	0	0	0	0	0	0	-0.01	1	1	0	600	600	0
7/11/2024 22:43	20603	GRWO_T2	0	4	4	0	0.13	0.13	-0.42	-0.46	1	1	0	900	900	0
7/11/2024 22:43	64204	KINZ_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
7/11/2024 22:43	46801	HEPB_T2	29	2	-27	0.33	1.05	0.72	-0.07	-0.1	0	0	0	0	0	0
7/11/2024 22:43	64201	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
7/11/2024 22:43	11804	FRAN_T1	17	15	-2	0.36	0.13	-0.23	-0.62	-0.59	1	1	0	1200	1200	0
7/11/2024 22:43	11802	FRAN_T1	7	0	-7	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/11/2024 22:43	64202	KINZ_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
7/11/2024 22:43	46803	HEPB_T2	9	0	-9	0.16	0	-0.16	0	0	0	0	0	0	0	0
7/11/2024 22:44	56803	BENV_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/11/2024 22:44	53902	HALI_T2	1	1	0	4.6	5.2	0.6	0	0	0	0	0	0	0	0
7/11/2024 22:44	60803	BUCK_T1	18	16	-2	0.72	0.61	-0.11	0	0	0	0	0	0	0	0
7/11/2024 22:44	56801	BENV_T1	7	7	0	0.8	1.31	0.51	-0.47	-0.5	1	1	0	600	600	0
7/11/2024 22:44	63401	HONY_T1	0	0	0	0	0	0	0.05	0.12	1	1	0	600	600	0
7/11/2024 22:44	53903	HALI_T2	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
7/11/2024 22:44	65001	NEFF_T2	0	0	0	0	0	0	-0.63	-0.64	1	1	0	1200	1200	0
7/11/2024 22:44	53901	HALI_T2	0	1	1	0	0.3	0.3	-1.14	-1.18	0	0	0	0	0	0
7/11/2024 22:44	56802	BENV_T2	0	0	0	0	0	0	-0.41	-1.06	0	0	0	0	0	0
7/11/2024 22:44	52002	LING_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
7/11/2024 22:44	60801	BUCK_T1	55	40	-15	0.49	0.38	-0.11	-0.02	-0.05	0	0	0	0	0	0
7/11/2024 22:44	44301	BEAV_T2	0	0	0	0	0	0	-0.09	-0.08	1	1	0	600	600	0
7/11/2024 22:44	20403	ASHF_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
7/11/2024 22:44	44801	EDAN_T2	24	63	39	0.22	0.22	0	-1.42	-1.43	0	0	0	0	0	0
7/11/2024 22:45	44801	EDAN_T2	58	42	-16	0.23	0.23	0	-1.42	-1.43	0	0	0	0	0	0
7/11/2024 22:45	12606	MACA_T1	4	7	3	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/11/2024 22:45	65604	QVIL_T2	0	0	0	0	0	0	0.71	0.68	0	0	0	0	0	0
7/11/2024 22:45	12601	MACA_T1	0	0	0	0	0	0	1.08	1.09	0	0	0	0	0	0
7/11/2024 22:45	16302	ALPA_T2	0	0	0	0	0	0	0.99	1.02	0	0	0	0	0	0
7/11/2024 22:45	16301	ALPA_T1	2	5	3	0.45	0.24	-0.21	0.04	0.06	0	0	0	0	0	0
7/11/2024 22:45	44201	POIN_T1	60	66	6	0.2	0.18	-0.02	-1.88	-1.96	2	2	0	2100	2100	0
7/11/2024 22:46	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	-0.11	-0.14	0	0	0	0	0	0
7/11/2024 22:46	46206	DANV_T2	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/11/2024 22:46	46203	DANV_T2	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
7/11/2024 22:46	52402	GRPA_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/11/2024 22:46	58001	WCAR_T1	4	4	0	0.4	0.78	0.38	0	0	0	0	0	0	0	0
7/11/2024 22:46	58003	WCAR_T1	1	1	0	0.9	1.2	0.3	1.9	1.77	0	0	0	0	0	0
7/11/2024 22:46	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 22:46	66505	SMAN_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
7/11/2024 22:46	52403	GRPA_T2	2	2	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/11/2024 22:46	24901	WHHA_T1	0	0	0	0	0	0	0.72	0.69	0	0	0	0	0	0
7/11/2024 22:46	66504	SMAN_T2	0	0	0	0	0	0	0.16	0.07	0	0	0	0	0	0
7/11/2024 22:46	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.75	0	0	0	0	0	0
7/11/2024 22:46	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/11/2024 22:46	40502	CRES_T2	9	7	-2	0.2	0.19	-0.01	-0.64	-0.71	0	0	0	0	0	0
7/11/2024 22:46	43202	MVIL_T2	51	53	2	0.38	0.39	0.01	-0.57	-0.57	0	0	0	0	0	0
7/11/2024 22:46	64902	MILL_T2	0	0	0	0	0	0	-0.22	-0.24	1	1	0	900	900	0
7/11/2024 22:46	63401	HONY_T1	0	0	0	0	0	0	0.05	0.12	1	1	0	600	600	0
7/11/2024 22:46	24902	WHHA_T1	10	5	-5	0.62	0.43	-0.19	0	0	0	0	0	0	0	0
7/11/2024 22:47	57101	SPHI_T2	6	6	0	0.1	0.53	0.43	0	0	0	0	0	0	0	0
7/11/2024 22:47	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/11/2024 22:47	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	-0.11	-0.14	0	0	0	0	0	0
7/11/2024 22:47	20603	GRWO_T2	0	11	11	0	0.15	0.15	0	0	0	0	0	0	0	0
7/11/2024 22:47	52402	GRPA_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/11/2024 22:47	52403	GRPA_T2	2	2	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/11/2024 22:47	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/11/2024 22:47	57106	SPHI_T2	3	3	0	0.47	0.93	0.46	0	0	0	0	0	0	0	0
7/11/2024 22:47	55002	NEWP_T1	3	3	0	0.63	0.37	-0.26	-0.11	-0.15	0	0	0	0	0	0
7/11/2024 22:47	46102	MACI_T1	0	0	0	0	0	0	1.08	1.08	0	0	0	0	0	0
7/11/2024 22:47	20601	GRWO_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
7/11/2024 22:47	61102	BERK_T5	0	0	0	0	0	0	0.04	0.87	1	1	0	300	300	0
7/11/2024 22:47	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 22:47	63305	GREE_T1	4	8	4	0.23	0.3	0.07	-1.85	-1.92	1	1	0	900	900	0
7/11/2024 22:47	57104	SPHI_T2	0	0	0	0	0	0	-0.45	-0.54	0	0	0	0	0	0
7/11/2024 22:47	56802	BENV_T2	0	0	0	0	0	0	-0.41	-1.06	0	0	0	0	0	0
7/11/2024 22:48	40802	EXCH_T2	0	0	0	0	0	0	-0.13	-0.1	0	0	0	0	0	0
7/11/2024 22:48	20403	ASHF_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
7/11/2024 22:48	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/11/2024 22:48	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/11/2024 22:48	43402	BENT_T1	0	0	0	0	0	0	-0.82	-0.82	1	1	0	900	900	0
7/11/2024 22:48	63304	GREE_T1	0	0	0	0	0	0	-1.29	-1.32	0	0	0	0	0	0
7/11/2024 22:48	42902	MIDD_T2	0	0	0	0	0	0	-0.69	-0.76	1	1	0	600	600	0
7/11/2024 22:48	52403	GRPA_T2	2	2	0	0.7	0	-0.7	-0.54	-0.26	0	0	0	0	0	0
7/11/2024 22:48	63401	HONY_T1	0	0	0	0	0	0	0.05	0.12	1	1	0	600	600	0
7/11/2024 22:48	63305	GREE_T1	4	8	4	0.23	0.3	0.07	0	0	0	0	0	0	0	0
7/11/2024 22:48	42903	MIDD_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
7/11/2024 22:48	52402	GRPA_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/11/2024 22:48	40801	EXCH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 22:48	67502	WEWI_T2	0	0	0	0	0	0	-1.05	-0.95	1	1	0	900	900	0
7/11/2024 22:48	59101	WALK_T2	0	0	0	0	0	0	1.07	1.32	1	1	0	600	600	0
7/11/2024 22:48	56802	BENV_T2	0	0	0	0	0	0	-0.41	-1.06	0	0	0	0	0	0
7/11/2024 22:49	45802	HEGI_T2	6	8	2	0.22	0.27	0.05	0.23	0.39	1	1	0	300	300	0
7/11/2024 22:49	65205	PRIN_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
7/11/2024 22:49	65603	QVIL_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
7/11/2024 22:49	41901	REED_T1	6	6	0	0.17	0.18	0.01	0	0	0	0	0	0	0	0
7/11/2024 22:49	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 22:49	41902	REED_T1	1	0	-1	0.1	0	-0.1	0.72	0.72	2	2	0	1800	1800	0
7/11/2024 22:49	40502	CRES_T2	9	7	-2	0.2	0.19	-0.01	-0.64	-0.71	0	0	0	0	0	0
7/11/2024 22:49	55102	WERT_T2	0	1	1	0	0	0	-0.24	-0.31	1	1	0	600	600	0
7/11/2024 22:49	63305	GREE_T1	4	8	4	0.23	0.3	0.07	-1.85	-1.92	1	1	0	900	900	0
7/11/2024 22:49	55002	NEWP_T1	3	3	0	0.63	0.37	-0.26	-0.11	-0.15	0	0	0	0	0	0
7/11/2024 22:49	63401	HONY_T1	0	0	0	0	0	0	0.11	0.24	2	2	0	1200	1200	0
7/11/2024 22:50	64201	KINZ_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/11/2024 22:50	64101	REFR_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
7/11/2024 22:50	64202	KINZ_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/11/2024 22:50	20601	GRWO_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
7/11/2024 22:50	52501	PROG_T1	0	0	0	0	0	0	0.33	0.32	1	1	0	300	300	0
7/11/2024 22:50	64902	MILL_T2	0	0	0	0	0	0	-0.22	-0.24	1	1	0	900	900	0
7/11/2024 22:50	20603	GRWO_T2	0	11	11	0	0.15	0.15	0	0	0	0	0	0	0	0
7/11/2024 22:50	14601	SWHI_T1	0	0	0	0	0	0	-0.19	-0.23	0	0	0	0	0	0
7/11/2024 22:50	64204	KINZ_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
7/11/2024 22:50	64203	KINZ_T1	0	0	0	0	0	0	0	-0.01	1	1	0	600	600	0
7/11/2024 22:50	40602	PIGR_T1	1	1	0	0.6	0.1	-0.5	-4.64	-4.68	3	3	0	1800	1800	0
7/11/2024 22:50	66505	SMAN_T2	0	3	3	0	0.17	0.17	-0.05	-0.23	3	3	0	2100	2100	0
7/11/2024 22:51	52403	GRPA_T2	2	2	0	0.7	0	-0.7	-0.54	-0.26	0	0	0	0	0	0
7/11/2024 22:51	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/11/2024 22:51	56802	BENV_T2	0	0	0	0	0	0	-0.41	-1.06	0	0	0	0	0	0
7/11/2024 22:51	58003	WCAR_T1	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
7/11/2024 22:51	58001	WCAR_T1	4	4	0	0.4	0.78	0.38	0	0	0	0	0	0	0	0
7/11/2024 22:51	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/11/2024 22:51	67203	TEHI_T1	0	0	0	0	0	0	2.6	2.57	2	2	0	1500	1500	0
7/11/2024 22:51	52402	GRPA_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/11/2024 22:51	67201	TEHI_T1	0	7	7	0	0.2	0.2	0	0	0	0	0	0	0	0
7/11/2024 22:51	52501	PROG_T1	0	0	0	0	0	0	0.33	0.32	1	1	0	300	300	0
7/11/2024 22:52	64201	KINZ_T1	1	1	0	0.7	1	0.3	0.45	0.43	2	2	0	600	600	0
7/11/2024 22:52	64202	KINZ_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/11/2024 22:52	67201	TEHI_T1	0	7	7	0	0.2	0.2	1.11	1.07	0	0	0	0	0	0
7/11/2024 22:52	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 22:52	67401	WAKE_T2	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
7/11/2024 22:52	40502	CRES_T2	9	7	-2	0.2	0.19	-0.01	-1.42	-1.46	0	0	0	0	0	0
7/11/2024 22:52	64101	REFR_T1	0	0	0	0	0	0	0.95	1.75	0	0	0	0	0	0
7/11/2024 22:52	64902	MILL_T2	0	0	0	0	0	0	-0.24	-0.95	1	1	0	900	900	0
7/11/2024 22:52	64203	KINZ_T1	0	0	0	0	0	0	-0.01	-0.06	1	1	0	600	600	0
7/11/2024 22:52	55002	NEWP_T1	3	3	0	0.63	0.37	-0.26	-0.3	-0.28	0	0	0	0	0	0
7/11/2024 22:52	56801	BENV_T1	7	8	1	1.31	1.33	0.02	-0.5	-0.55	1	1	0	600	600	0
7/11/2024 22:52	46206	DANV_T2	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/11/2024 22:52	60803	BUCK_T1	15	16	1	0.55	0.57	0.02	0	0	0	0	0	0	0	0
7/11/2024 22:52	66504	SMAN_T2	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
7/11/2024 22:52	46203	DANV_T2	0	0	0	0	0	0	-0.37	-0.44	0	0	0	0	0	0
7/11/2024 22:52	56803	BENV_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/11/2024 22:52	64204	KINZ_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
7/11/2024 22:52	66505	SMAN_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
7/11/2024 22:52	60801	BUCK_T1	36	40	4	0.3	0.37	0.07	-0.1	-0.16	0	0	0	0	0	0
7/11/2024 22:53	58003	WCAR_T1	1	1	0	0.9	1.2	0.3	0.88	0.87	0	0	0	0	0	0
7/11/2024 22:53	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
7/11/2024 22:53	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 22:53	53901	HALI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/11/2024 22:53	58001	WCAR_T1	4	4	0	0.4	0.78	0.38	0	0	0	0	0	0	0	0
7/11/2024 22:53	53903	HALI_T2	2	2	0	0.85	0.95	0.1	-0.05	-0.05	0	0	0	0	0	0
7/11/2024 22:53	64101	REFR_T1	0	0	0	0	0	0	0.24	0.44	0	0	0	0	0	0
7/11/2024 22:53	65601	QVIL_T2	0	0	0	0	0	0	0.45	0.31	0	0	0	0	0	0
7/11/2024 22:53	52501	PROG_T1	0	0	0	0	0	0	0.32	0.36	1	1	0	300	300	0
7/11/2024 22:53	61103	BERK_T5	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
7/11/2024 22:53	40502	CRES_T2	9	7	-2	0.2	0.19	-0.01	-0.71	-0.73	0	0	0	0	0	0
7/11/2024 22:54	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 22:54	55101	WERT_T1	0	0	0	0	0	0	-1.83	-1.87	3	3	0	2400	2400	0
7/11/2024 22:54	52002	LING_T2	0	0	0	0	0	0	0.37	0.31	0	0	0	0	0	0
7/11/2024 22:54	57101	SPHI_T2	6	6	0	0.1	0.53	0.43	0	0	0	0	0	0	0	0
7/11/2024 22:54	67605	WARW_T1	3	3	0	0.5	0.73	0.23	-1.07	-0.95	0	0	0	0	0	0
7/11/2024 22:54	45802	HEGI_T2	6	8	2	0.22	0.27	0.05	0.39	0.66	1	1	0	300	300	0
7/11/2024 22:54	57106	SPHI_T2	3	3	0	0.47	0.93	0.46	0	0	0	0	0	0	0	0
7/11/2024 22:54	40502	CRES_T2	9	7	-2	0.2	0.19	-0.01	-0.71	-0.73	0	0	0	0	0	0
7/11/2024 22:54	57103	SPHI_T2	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
7/11/2024 22:54	55405	SHER_T1	10	11	1	0.68	0.61	-0.07	-0.55	-0.51	0	0	0	0	0	0
7/11/2024 22:54	64101	REFR_T1	0	0	0	0	0	0	0.24	0.44	0	0	0	0	0	0
7/11/2024 22:55	64203	KINZ_T1	0	0	0	0	0	0	-0.01	-0.06	1	1	0	600	600	0
7/11/2024 22:55	40502	CRES_T2	9	7	-2	0.2	0.19	-0.01	-0.71	-0.73	0	0	0	0	0	0
7/11/2024 22:55	63305	GREE_T1	4	8	4	0.23	0.3	0.07	0	0	0	0	0	0	0	0
7/11/2024 22:55	61801	EELI_T2	0	1	1	0	0	0	-0.52	-0.53	1	1	0	600	600	0
7/11/2024 22:55	61802	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 22:55	51004	NHAR_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
7/11/2024 22:55	64201	KINZ_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/11/2024 22:55	63304	GREE_T1	0	0	0	0	0	0	-1.32	-1.4	0	0	0	0	0	0
7/11/2024 22:55	64202	KINZ_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/11/2024 22:55	51002	NHAR_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
7/11/2024 22:55	52002	LING_T2	0	0	0	0	0	0	0.37	0.31	0	0	0	0	0	0
7/11/2024 22:55	64204	KINZ_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
7/11/2024 22:55	51003	NHAR_T1	0	0	0	0	0	0	-1.15	-1.04	1	1	0	1200	1200	0
7/11/2024 22:55	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 22:56	40502	CRES_T2	9	7	-2	0.2	0.19	-0.01	-0.71	-0.73	0	0	0	0	0	0
7/11/2024 22:56	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 22:56	64101	REFR_T1	0	0	0	0	0	0	0.48	0.88	0	0	0	0	0	0
7/11/2024 22:57	42503	ALTA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/11/2024 22:57	64101	REFR_T1	0	0	0	0	0	0	0.24	0.44	0	0	0	0	0	0
7/11/2024 22:57	42501	ALTA_T2	0	0	0	0	0	0	-1	-1.03	1	1	0	600	600	0
7/11/2024 22:58	52002	LING_T2	0	0	0	0	0	0	0.37	0.31	0	0	0	0	0	0
7/11/2024 22:59	64305	LINC_T1	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
7/11/2024 23:17	22701	MINO_T1	0	0	0	0	0	0	-0.52	-0.57	1	1	0	600	600	0
7/11/2024 23:20	64305	LINC_T1	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
7/11/2024 23:21	64305	LINC_T1	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
7/11/2024 23:37	64203	KINZ_T1	0	0	0	0	0	0	-0.19	-0.15	1	1	0	600	600	0
7/11/2024 23:37	64204	KINZ_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
7/11/2024 23:37	64202	KINZ_T1	2	3	1	0.1	0.37	0.27	0	0	0	0	0	0	0	0
7/11/2024 23:37	67605	WARW_T1	1	7	6	0.5	0.2	-0.3	-1.05	-1.06	0	0	0	0	0	0
7/11/2024 23:37	64201	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/11/2024 23:38	67605	WARW_T1	1	7	6	0.5	0.2	-0.3	-1.05	-1.06	0	0	0	0	0	0
7/11/2024 23:38	64201	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/11/2024 23:38	64203	KINZ_T1	0	0	0	0	0	0	-0.19	-0.15	1	1	0	600	600	0
7/11/2024 23:38	64202	KINZ_T1	2	3	1	0.1	0.37	0.27	0	0	0	0	0	0	0	0
7/11/2024 23:38	64204	KINZ_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
7/11/2024 23:47	11205	ELHE_T1	0	0	0	0	0	0	-0.42	-0.27	1	1	0	1200	1200	0
7/12/2024 0:01	64305	LINC_T1	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
7/12/2024 0:02	64305	LINC_T1	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
7/12/2024 0:18	64202	KINZ_T1	3	3	0	0.67	0.5	-0.17	0	0	0	0	0	0	0	0
7/12/2024 0:18	64204	KINZ_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
7/12/2024 0:18	64203	KINZ_T1	0	0	0	0	0	0	-0.12	-0.14	1	1	0	600	600	0
7/12/2024 0:18	67605	WARW_T1	6	12	6	0.32	0.34	0.02	-1.09	-1	0	0	0	0	0	0
7/12/2024 0:18	64201	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/12/2024 0:19	64204	KINZ_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
7/12/2024 0:19	64203	KINZ_T1	0	0	0	0	0	0	-0.12	-0.14	1	1	0	600	600	0
7/12/2024 0:19	64202	KINZ_T1	3	3	0	0.67	0.5	-0.17	0	0	0	0	0	0	0	0
7/12/2024 0:19	67605	WARW_T1	6	12	6	0.32	0.34	0.02	-1.09	-1	0	0	0	0	0	0
7/12/2024 0:19	64201	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/12/2024 0:39	64202	KINZ_T1	3	0	-3	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/12/2024 0:39	64201	KINZ_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
7/12/2024 0:39	67605	WARW_T1	10	26	16	0.32	0.39	0.07	-1.02	-1.06	0	0	0	0	0	0
7/12/2024 0:39	64203	KINZ_T1	0	0	0	0	0	0	0.48	0.39	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/12/2024 0:39	64204	KINZ_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
7/12/2024 0:40	64201	KINZ_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
7/12/2024 0:40	67605	WARW_T1	10	26	16	0.32	0.39	0.07	-1.02	-1.06	0	0	0	0	0	0
7/12/2024 0:40	64204	KINZ_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
7/12/2024 0:40	64202	KINZ_T1	3	0	-3	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/12/2024 0:40	64203	KINZ_T1	0	0	0	0	0	0	0.48	0.39	0	0	0	0	0	0
7/12/2024 1:00	64202	KINZ_T1	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
7/12/2024 1:00	64203	KINZ_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
7/12/2024 1:00	67605	WARW_T1	26	29	3	0.39	0.54	0.15	-1.06	-1.06	0	0	0	0	0	0
7/12/2024 1:00	64201	KINZ_T1	1	1	0	0.2	1.1	0.9	0	0	0	0	0	0	0	0
7/12/2024 1:00	64204	KINZ_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
7/12/2024 1:01	64203	KINZ_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
7/12/2024 1:01	67605	WARW_T1	26	29	3	0.39	0.54	0.15	-1.06	-1.06	0	0	0	0	0	0
7/12/2024 1:01	64202	KINZ_T1	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
7/12/2024 1:01	64204	KINZ_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
7/12/2024 1:01	64201	KINZ_T1	1	1	0	0.2	1.1	0.9	0	0	0	0	0	0	0	0
7/12/2024 6:51	43801	SWIL_T1	2	2	0	3.2	3.15	-0.05	0	0	0	0	0	0	0	0
7/12/2024 6:51	43802	SWIL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/12/2024 6:54	13905	SEID_T1	0	0	0	0	0	0	-0.94	-0.9	1	1	0	1200	1200	0
7/12/2024 6:55	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 6:57	43402	BENT_T1	0	0	0	0	0	0	-0.79	-0.78	1	1	0	900	900	0
7/12/2024 7:00	63401	HONY_T1	0	0	0	0	0	0	0.82	0.84	0	0	0	0	0	0
7/12/2024 7:11	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 7:12	22002	BOHE_T1	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
7/12/2024 7:12	22003	BOHE_T1	249	233	-16	0.5	0.34	-0.16	0	0	0	0	0	0	0	0
7/12/2024 7:12	22001	BOHE_T1	13	1	-12	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
7/12/2024 7:13	46801	HEPB_T2	3	2	-1	0.5	0.5	0	0.79	0.85	0	0	0	0	0	0
7/12/2024 7:20	44902	SCOT_T2	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
7/12/2024 7:27	22003	BOHE_T1	224	235	11	0.33	0.37	0.04	0	0	0	0	0	0	0	0
7/12/2024 7:27	22001	BOHE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/12/2024 7:27	22002	BOHE_T1	0	0	0	0	0	0	0.43	0.47	0	0	0	0	0	0
7/12/2024 7:29	46801	HEPB_T2	2	2	0	0.5	0.4	-0.1	0.85	0.87	0	0	0	0	0	0
7/12/2024 7:39	55102	WERT_T2	0	0	0	0	0	0	-1.6	-1.6	2	2	0	1200	1200	0
7/12/2024 7:41	20401	ASHF_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
7/12/2024 7:41	20403	ASHF_T2	0	0	0	0	0	0	0.62	0.66	0	0	0	0	0	0
7/12/2024 7:46	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 7:49	64904	MILL_T1	0	0	0	0	0	0	-0.24	-0.21	0	0	0	0	0	0
7/12/2024 7:54	43302	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 7:54	43304	WATS_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
7/12/2024 7:57	54505	ENOL_T2	1	1	0	0.2	0.7	0.5	-1.26	-1.22	1	1	0	600	600	0
7/12/2024 7:57	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/12/2024 7:58	54505	ENOL_T2	1	1	0	0.2	0.7	0.5	-1.26	-1.22	1	1	0	600	600	0
7/12/2024 7:58	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/12/2024 8:00	52004	LING_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
7/12/2024 8:00	52002	LING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/12/2024 8:01	40101	HUNT_T2	0	5	5	0	0.2	0.2	-0.39	-0.32	0	0	0	0	0	0
7/12/2024 8:02	64902	MILL_T2	0	0	0	0	0	0	-0.98	-0.93	1	1	0	900	900	0
7/12/2024 8:03	55002	NEWP_T1	6	6	0	1.22	0.83	-0.39	-0.38	-0.3	0	0	0	0	0	0
7/12/2024 8:04	65603	QVIL_T2	0	0	0	0	0	0	0.8	0.81	0	0	0	0	0	0
7/12/2024 8:05	55002	NEWP_T1	6	6	0	1.22	0.83	-0.39	-0.19	-0.15	0	0	0	0	0	0
7/12/2024 8:05	65603	QVIL_T2	0	0	0	0	0	0	0.8	0.81	0	0	0	0	0	0
7/12/2024 8:06	41902	REED_T1	0	0	0	0	0	0	1.14	1.27	0	0	0	0	0	0
7/12/2024 8:08	57101	SPHI_T2	6	6	0	0.52	0.9	0.38	0	0	0	0	0	0	0	0
7/12/2024 8:08	57103	SPHI_T2	0	0	0	0	0	0	-0.34	-0.35	2	2	0	1200	1200	0
7/12/2024 8:08	57106	SPHI_T2	3	3	0	0.73	0.93	0.2	0	0	0	0	0	0	0	0
7/12/2024 8:08	67804	WLAN_T1	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
7/12/2024 8:09	14801	TREI_T2	2	2	0	0.75	0.65	-0.1	1.12	1.17	0	0	0	0	0	0
7/12/2024 8:09	41902	REED_T1	0	0	0	0	0	0	1.27	1.19	0	0	0	0	0	0
7/12/2024 8:09	67804	WLAN_T1	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
7/12/2024 8:10	67803	WLAN_T1	0	0	0	0	0	0	-1.36	-1.38	0	0	0	0	0	0
7/12/2024 8:11	24102	EHAZ_T1	1	1	0	1.3	0.1	-1.2	0	0	0	0	0	0	0	0
7/12/2024 8:11	24105	EHAZ_T1	4	4	0	6.73	6.18	-0.55	0	0	0	0	0	0	0	0
7/12/2024 8:11	24104	EHAZ_T1	0	0	0	0	0	0	-1.79	-1.71	1	1	0	1200	1200	0
7/12/2024 8:13	14601	SWHI_T1	0	0	0	0	0	0	-0.54	-0.51	0	0	0	0	0	0
7/12/2024 8:14	14601	SWHI_T1	0	0	0	0	0	0	-0.54	-0.51	0	0	0	0	0	0
7/12/2024 8:18	55002	NEWP_T1	6	5	-1	0.83	0.64	-0.19	-0.15	-0.15	0	0	0	0	0	0
7/12/2024 8:19	55002	NEWP_T1	6	5	-1	0.83	0.64	-0.19	-0.3	-0.3	0	0	0	0	0	0
7/12/2024 8:20	14404	SSLA_T1	2	2	0	2.85	2.65	-0.2	0.05	0.07	0	0	0	0	0	0
7/12/2024 8:21	55002	NEWP_T1	6	5	-1	0.83	0.64	-0.19	0	0	0	0	0	0	0	0
7/12/2024 8:21	55001	NEWP_T1	0	0	0	0	0	0	-0.28	-0.36	0	0	0	0	0	0
7/12/2024 8:22	14404	SSLA_T1	2	2	0	2.85	2.65	-0.2	0.07	0.12	0	0	0	0	0	0
7/12/2024 8:22	58006	WCAR_T2	0	0	0	0	0	0	-0.83	-0.79	0	0	0	0	0	0
7/12/2024 8:23	55105	WERT_T1	0	0	0	0	0	0	-0.21	-0.13	1	1	0	900	900	0
7/12/2024 8:24	55408	SHER_T2	1	1	0	2	1.4	-0.6	-0.94	-0.94	0	0	0	0	0	0
7/12/2024 8:25	43304	WATS_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
7/12/2024 8:26	44801	EDAN_T2	14	16	2	0.21	0.16	-0.05	-1.39	-1.32	0	0	0	0	0	0
7/12/2024 8:28	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 8:28	44801	EDAN_T2	14	16	2	0.21	0.16	-0.05	-1.39	-1.32	0	0	0	0	0	0
7/12/2024 8:30	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 8:38	44301	BEAV_T2	1	1	0	1.3	0	-1.3	-0.49	-0.29	2	2	0	1500	1500	0
7/12/2024 8:39	44301	BEAV_T2	1	1	0	1.3	0	-1.3	-0.49	-0.29	2	2	0	1500	1500	0
7/12/2024 8:39	67505	WEWI_T1	0	0	0	0	0	0	0.16	0.21	1	1	0	900	900	0
7/12/2024 8:40	67804	WLAN_T1	0	0	0	0	0	0	-0.92	-0.89	0	0	0	0	0	0
7/12/2024 8:40	67505	WEWI_T1	0	0	0	0	0	0	0.16	0.21	1	1	0	900	900	0
7/12/2024 8:40	44301	BEAV_T2	1	1	0	1.3	0	-1.3	-0.99	-0.58	4	4	0	3000	3000	0
7/12/2024 8:42	11102	EGYP_T1	1	1	0	0.2	0	-0.2	-0.36	-0.42	0	0	0	0	0	0
7/12/2024 8:49	64904	MILL_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
7/12/2024 8:53	41903	REED_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/12/2024 8:53	41902	REED_T1	4	0	-4	0.95	0	-0.95	0.98	0.8	0	0	0	0	0	0
7/12/2024 8:54	20401	ASHF_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/12/2024 8:54	20403	ASHF_T2	0	0	0	0	0	0	1.49	1.6	0	0	0	0	0	0
7/12/2024 8:56	20401	ASHF_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/12/2024 8:56	20403	ASHF_T2	0	0	0	0	0	0	1.49	1.6	0	0	0	0	0	0
7/12/2024 8:58	54505	ENOL_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
7/12/2024 8:58	54506	ENOL_T2	0	0	0	0	0	0	0.17	0.1	1	1	0	600	600	0
7/12/2024 9:02	43202	MVIL_T2	41	15	-26	0.19	0.21	0.02	-0.43	-0.43	0	0	0	0	0	0
7/12/2024 9:03	55002	NEWP_T1	7	6	-1	0.63	0.7	0.07	-0.1	-0.07	0	0	0	0	0	0
7/12/2024 9:03	64802	MONE_T2	0	1	1	0	0.2	0.2	0.29	0.27	0	0	0	0	0	0
7/12/2024 9:04	64904	MILL_T1	0	0	0	0	0	0	-0.16	-0.08	0	0	0	0	0	0
7/12/2024 9:04	43202	MVIL_T2	41	15	-26	0.19	0.21	0.02	-0.43	-0.43	0	0	0	0	0	0
7/12/2024 9:06	55002	NEWP_T1	7	6	-1	0.63	0.7	0.07	-0.3	-0.21	0	0	0	0	0	0
7/12/2024 9:08	43304	WATS_T2	0	0	0	0	0	0	-0.2	-0.09	0	0	0	0	0	0
7/12/2024 9:09	67802	WLAN_T1	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
7/12/2024 9:11	56802	BENV_T2	59	114	55	0.21	0.24	0.03	-1.02	-1.06	0	0	0	0	0	0
7/12/2024 9:11	46206	DANV_T2	10	25	15	0.42	0.52	0.1	2.26	2.35	2	2	0	2100	2100	0
7/12/2024 9:14	46206	DANV_T2	10	25	15	0.42	0.52	0.1	2.26	2.35	2	2	0	2100	2100	0
7/12/2024 9:16	56802	BENV_T2	113	16	-97	0.24	0.29	0.05	-1.02	-1.06	0	0	0	0	0	0
7/12/2024 9:21	43202	MVIL_T2	15	1	-14	0.21	0.7	0.49	-0.39	-0.4	0	0	0	0	0	0
7/12/2024 9:22	56802	BENV_T2	113	16	-97	0.24	0.29	0.05	-1.06	-1	0	0	0	0	0	0
7/12/2024 9:22	59101	WALK_T2	0	0	0	0	0	0	1.53	1.5	1	1	0	600	600	0
7/12/2024 9:22	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/12/2024 9:23	64204	KINZ_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/12/2024 9:23	57403	SPAN_T1	4	0	-4	0.1	0	-0.1	0.14	0.12	0	0	0	0	0	0
7/12/2024 9:23	64203	KINZ_T1	0	0	0	0	0	0	0.11	-0.16	3	3	0	2100	2100	0
7/12/2024 9:24	24902	WHHA_T1	1	1	0	0.2	0.8	0.6	0.93	0.86	0	0	0	0	0	0
7/12/2024 9:24	59101	WALK_T2	0	0	0	0	0	0	1.53	1.5	1	1	0	600	600	0
7/12/2024 9:24	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/12/2024 9:26	59101	WALK_T2	0	0	0	0	0	0	1.53	1.5	1	1	0	600	600	0
7/12/2024 9:26	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/12/2024 9:29	45802	HEGI_T2	0	1	1	0	0.1	0.1	0.35	0.48	4	4	0	2400	2400	0
7/12/2024 9:31	24902	WHHA_T1	1	2	1	0.8	0.8	0	0.93	0.86	0	0	0	0	0	0
7/12/2024 9:41	62102	ELAN_T1	0	0	0	0	0	0	0.96	1.11	0	0	0	0	0	0
7/12/2024 9:50	65601	QVIL_T2	0	1	1	0	0	0	0.54	-0.37	0	1	1	0	900	900
7/12/2024 9:52	44601	SALE_T2	0	0	0	0	0	0	0.47	0.5	1	1	0	600	600	0
7/12/2024 9:53	44601	SALE_T2	0	0	0	0	0	0	0.47	0.5	1	1	0	600	600	0
7/12/2024 9:54	55405	SHER_T1	10	11	1	0.61	1.05	0.44	-0.17	-0.17	0	0	0	0	0	0
7/12/2024 9:56	67803	WLAN_T1	0	0	0	0	0	0	-1.26	-1.27	0	0	0	0	0	0
7/12/2024 9:56	67804	WLAN_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 10:00	64204	KINZ_T1	2	1	-1	0.55	0.7	0.15	0	0	0	0	0	0	0	0
7/12/2024 10:00	65603	QVIL_T2	0	0	0	0	0	0	1.65	1.84	0	0	0	0	0	0
7/12/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
7/12/2024 10:00	11507	FREE_T2	1	2	1	0.3	0.6	0.3	1.24	1.25	0	0	0	0	0	0
7/12/2024 10:00	47001	HUGH_T2	3	3	0	7.73	7.5	-0.23	-2.14	-2.2	2	2	0	1800	1800	0
7/12/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
7/12/2024 10:00	64201	KINZ_T1	0	0	0	0	0	0	-0.33	-0.23	4	4	0	2100	2100	0
7/12/2024 10:00	57403	SPAN_T1	0	0	0	0	0	0	-1.26	-1.18	1	1	0	600	600	0
7/12/2024 10:00	40505	CRES_T1	3	3	0	3.7	3.33	-0.37	0.66	0.64	0	0	0	0	0	0
7/12/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-0.83	-0.78	1	1	0	900	900	0
7/12/2024 10:00	64802	MONE_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
7/12/2024 10:00	57403	SPAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/12/2024 10:00	14404	SSLA_T1	2	2	0	2	2.15	0.15	0.12	0.16	0	0	0	0	0	0
7/12/2024 10:00	12803	MICK_T1	0	0	0	0	0	0	0.93	0.86	0	0	0	0	0	0
7/12/2024 10:00	64904	MILL_T1	0	0	0	0	0	0	0.02	0.19	0	0	0	0	0	0
7/12/2024 10:00	12807	MICK_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/12/2024 10:08	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/12/2024 10:08	20401	ASHF_T2	1	5	4	0.9	0.95	0.05	0.22	0.19	0	0	0	0	0	0
7/12/2024 10:09	58001	WCAR_T1	3	4	1	0.37	0.5	0.13	0	0	0	0	0	0	0	0
7/12/2024 10:09	58003	WCAR_T1	3	1	-2	0.3	0.6	0.3	0.98	0.94	0	0	0	0	0	0
7/12/2024 10:09	56802	BENV_T2	1	1	0	0.3	0.5	0.2	-1.01	-0.95	0	0	0	0	0	0
7/12/2024 10:10	58003	WCAR_T1	3	1	-2	0.3	0.6	0.3	0.98	0.94	0	0	0	0	0	0
7/12/2024 10:10	46002	BERW_T2	0	0	0	0	0	0	-0.68	-0.72	1	1	0	900	900	0
7/12/2024 10:10	67803	WLAN_T1	0	0	0	0	0	0	-1.27	-1.27	0	0	0	0	0	0
7/12/2024 10:10	67804	WLAN_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 10:10	58001	WCAR_T1	3	4	1	0.37	0.5	0.13	0	0	0	0	0	0	0	0
7/12/2024 10:11	64203	KINZ_T1	0	0	0	0	0	0	0.09	0.14	3	3	0	2100	2100	0
7/12/2024 10:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/12/2024 10:11	29402	BELT_T1	1	2	1	7.2	7.3	0.1	0	0	0	0	0	0	0	0
7/12/2024 10:11	64204	KINZ_T1	2	1	-1	0.55	0.7	0.15	0	0	0	0	0	0	0	0
7/12/2024 10:12	14201	EALL_T1	0	0	0	0	0	0	0.89	0.9	0	0	0	0	0	0
7/12/2024 10:13	56801	BENV_T1	3	6	3	0.93	0.77	-0.16	0	0	0	0	0	0	0	0
7/12/2024 10:13	24902	WHHA_T1	2	1	-1	0.6	0.7	0.1	0.87	0.9	0	0	0	0	0	0
7/12/2024 10:13	56803	BENV_T1	3	2	-1	0.73	3.3	2.57	0.63	0.74	0	0	0	0	0	0
7/12/2024 10:16	65502	MOJO_T2	0	0	0	0	0	0	-0.52	-0.39	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/12/2024 10:18	65001	NEFF_T2	0	0	0	0	0	0	-0.17	-0.11	1	1	0	1200	1200	0
7/12/2024 10:19	13905	SEID_T1	0	0	0	0	0	0	-0.73	-0.71	1	1	0	1200	1200	0
7/12/2024 10:19	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 10:19	65502	MOJO_T2	0	0	0	0	0	0	-0.52	-0.39	1	1	0	900	900	0
7/12/2024 10:20	64902	MILL_T2	0	0	0	0	0	0	-1.56	-1.58	2	2	0	1800	1800	0
7/12/2024 10:21	56501	ROCK_T2	4	6	2	0.53	0.45	-0.08	-1.54	-1.48	0	0	0	0	0	0
7/12/2024 10:21	57401	SPAN_T1	0	0	0	0	0	0	-1.18	-1.07	1	1	0	600	600	0
7/12/2024 10:21	67001	STHI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/12/2024 10:21	67002	STHI_T2	0	0	0	0	0	0	1.04	1.08	0	0	0	0	0	0
7/12/2024 10:21	57403	SPAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/12/2024 10:22	67002	STHI_T2	0	0	0	0	0	0	5.21	5.4	0	0	0	0	0	0
7/12/2024 10:22	57403	SPAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/12/2024 10:22	67001	STHI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/12/2024 10:22	57401	SPAN_T1	0	0	0	0	0	0	-2.14	-2.1	2	2	0	1200	1200	0
7/12/2024 10:23	67001	STHI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/12/2024 10:23	67002	STHI_T2	0	0	0	0	0	0	1.04	1.08	0	0	0	0	0	0
7/12/2024 10:24	67002	STHI_T2	0	0	0	0	0	0	1.04	1.08	0	0	0	0	0	0
7/12/2024 10:24	67001	STHI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/12/2024 10:24	57403	SPAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/12/2024 10:24	57401	SPAN_T1	0	0	0	0	0	0	-2.14	-2.1	2	2	0	1200	1200	0
7/12/2024 10:25	67804	WLAN_T1	2	0	-2	0.5	0	-0.5	-1.56	-1.48	0	0	0	0	0	0
7/12/2024 10:26	57401	SPAN_T1	0	0	0	0	0	0	-1.07	-1.05	1	1	0	600	600	0
7/12/2024 10:26	57403	SPAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/12/2024 10:27	67804	WLAN_T1	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/12/2024 10:27	67803	WLAN_T1	0	0	0	0	0	0	-1.27	-1.17	0	0	0	0	0	0
7/12/2024 10:28	56803	BENV_T1	2	3	1	3.3	9.6	6.3	0	0	0	0	0	0	0	0
7/12/2024 10:28	56801	BENV_T1	3	6	3	0.73	0.77	0.04	-0.53	-0.47	1	1	0	600	600	0
7/12/2024 10:29	56803	BENV_T1	2	3	1	3.3	9.6	6.3	0	0	0	0	0	0	0	0
7/12/2024 10:29	56801	BENV_T1	3	6	3	0.73	0.77	0.04	-0.53	-0.47	1	1	0	600	600	0
7/12/2024 10:31	21203	ECAR_T1	0	0	0	0	0	0	0	0.07	0	0	0	0	0	0
7/12/2024 10:31	21201	ECAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 10:32	46801	HEPB_T2	2	2	0	0.2	1	0.8	1.13	0.27	0	0	0	0	0	0
7/12/2024 10:32	46803	HEPB_T2	0	0	0	0	0	0	0.65	0.67	0	0	0	0	0	0
7/12/2024 10:36	52004	LING_T2	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
7/12/2024 10:38	65601	QVIL_T2	0	48	48	0	0.16	0.16	-0.35	0.62	1	0	-1	900	0	-900
7/12/2024 10:38	65604	QVIL_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/12/2024 10:38	65603	QVIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
7/12/2024 10:38	43304	WATS_T2	1	1	0	0.7	0	-0.7	0.01	-0.62	0	1	1	0	600	600
7/12/2024 10:38	59101	WALK_T2	0	0	0	0	0	0	3.09	3.15	2	2	0	1200	1200	0
7/12/2024 10:38	65602	QVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/12/2024 10:39	67605	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 10:39	60802	BUCK_T2	0	219	219	0	0.41	0.41	0.36	0.4	0	0	0	0	0	0
7/12/2024 10:40	59101	WALK_T2	0	0	0	0	0	0	1.54	1.58	1	1	0	600	600	0
7/12/2024 10:40	56801	BENV_T1	6	3	-3	0.77	0.27	-0.5	-0.47	-0.46	1	1	0	600	600	0
7/12/2024 10:40	56803	BENV_T1	1	2	1	3	0.5	-2.5	0	0	0	0	0	0	0	0
7/12/2024 10:41	59101	WALK_T2	0	0	0	0	0	0	1.54	1.58	1	1	0	600	600	0
7/12/2024 10:42	60801	BUCK_T1	0	42	42	0	0.35	0.35	0.41	0.42	0	0	0	0	0	0
7/12/2024 10:42	43304	WATS_T2	1	1	0	0.7	0	-0.7	0.01	-0.62	0	1	1	0	600	600
7/12/2024 10:42	60803	BUCK_T1	13	24	11	0.34	0.88	0.54	0	0	0	0	0	0	0	0
7/12/2024 10:44	56803	BENV_T1	1	2	1	3	0.5	-2.5	0	0	0	0	0	0	0	0
7/12/2024 10:44	56801	BENV_T1	6	3	-3	0.77	0.27	-0.5	-0.47	-0.46	1	1	0	600	600	0
7/12/2024 10:46	45802	HEGI_T2	21	5	-16	0.5	0.37	-0.13	0.38	0.43	2	2	0	1200	1200	0
7/12/2024 10:47	45802	HEGI_T2	21	5	-16	0.5	0.37	-0.13	0.38	0.43	2	2	0	1200	1200	0
7/12/2024 10:49	65901	SAKR_T2	1	1	0	8.4	8.5	0.1	0	0	0	0	0	0	0	0
7/12/2024 10:49	65904	SAKR_T2	0	0	0	0	0	0	-1.43	-1.43	3	3	0	1500	1500	0
7/12/2024 10:49	65902	SAKR_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/12/2024 10:50	67203	TEHI_T1	8	11	3	0.81	0.88	0.07	3.09	3.05	3	3	0	2100	2100	0
7/12/2024 10:50	67201	TEHI_T1	10	11	1	0.82	0.69	-0.13	0	0	0	0	0	0	0	0
7/12/2024 10:53	63304	GREE_T1	0	1	1	0	0	0	-2.38	-2.35	0	0	0	0	0	0
7/12/2024 10:54	59101	WALK_T2	0	0	0	0	0	0	1.58	1.56	1	1	0	600	600	0
7/12/2024 10:57	46203	DANV_T2	0	0	0	0	0	0	-1.49	-1.41	0	0	0	0	0	0
7/12/2024 10:57	46206	DANV_T2	51	51	0	0.56	0.46	-0.1	0	0	0	0	0	0	0	0
7/12/2024 10:57	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 10:57	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 10:57	46204	DANV_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/12/2024 10:59	59101	WALK_T2	0	0	0	0	0	0	1.58	1.56	1	1	0	600	600	0
7/12/2024 10:59	24901	WHHA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 10:59	24902	WHHA_T1	1	1	0	1.2	0.7	-0.5	0.91	0.94	0	0	0	0	0	0
7/12/2024 10:59	46204	DANV_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/12/2024 10:59	46206	DANV_T2	51	51	0	0.56	0.46	-0.1	1.92	1.81	2	2	0	2100	2100	0
7/12/2024 11:00	65401	MARI_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
7/12/2024 11:01	40101	HUNT_T2	43	52	9	0.38	0.31	-0.07	-0.05	-0.04	0	0	0	0	0	0
7/12/2024 11:02	57403	SPAN_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
7/12/2024 11:02	46204	DANV_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/12/2024 11:02	53502	EVIL_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/12/2024 11:02	53501	EVIL_T2	1	1	0	0.3	0	-0.3	-0.51	-0.52	1	1	0	900	900	0
7/12/2024 11:02	46206	DANV_T2	46	51	5	0.49	0.45	-0.04	1.92	1.81	2	2	0	2100	2100	0
7/12/2024 11:03	57403	SPAN_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
7/12/2024 11:04	65602	QVIL_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/12/2024 11:04	65603	QVIL_T2	3	4	1	0.13	0.25	0.12	1.01	0.99	0	0	0	0	0	0
7/12/2024 11:04	65601	QVIL_T2	48	56	8	0.16	0.17	0.01	0	0	0	0	0	0	0	0
7/12/2024 11:04	65604	QVIL_T2	2	3	1	0.4	0.4	0	0	0	0	0	0	0	0	0
7/12/2024 11:04	58402	MORO_T1	0	0	0	0	0	0	-0.55	-0.6	3	3	0	2400	2400	0
7/12/2024 11:05	65604	QVIL_T2	2	3	1	0.4	0.4	0	0	0	0	0	0	0	0	0
7/12/2024 11:05	65602	QVIL_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/12/2024 11:05	65601	QVIL_T2	48	56	8	0.16	0.17	0.01	0.62	0.67	0	0	0	0	0	0
7/12/2024 11:05	65603	QVIL_T2	3	4	1	0.13	0.25	0.12	0	0	0	0	0	0	0	0
7/12/2024 11:07	43301	WATS_T2	0	0	0	0	0	0	-0.3	-0.27	2	2	0	1800	1800	0
7/12/2024 11:07	43304	WATS_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
7/12/2024 11:08	65603	QVIL_T2	3	4	1	0.13	0.25	0.12	0.99	1.01	0	0	0	0	0	0
7/12/2024 11:08	65602	QVIL_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/12/2024 11:08	65601	QVIL_T2	48	56	8	0.16	0.17	0.01	0	0	0	0	0	0	0	0
7/12/2024 11:08	65604	QVIL_T2	2	3	1	0.4	0.4	0	0	0	0	0	0	0	0	0
7/12/2024 11:08	43304	WATS_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
7/12/2024 11:08	43301	WATS_T2	0	0	0	0	0	0	-0.15	-0.13	1	1	0	900	900	0
7/12/2024 11:09	56501	ROCK_T2	5	2	-3	0.38	0.4	0.02	-1.4	-1.36	0	0	0	0	0	0
7/12/2024 11:09	55103	WERT_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
7/12/2024 11:09	55101	WERT_T1	0	0	0	0	0	0	-1.67	-1.8	4	4	0	3300	3300	0
7/12/2024 11:10	43304	WATS_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
7/12/2024 11:10	20401	ASHF_T2	2	5	3	0.65	0.78	0.13	0	0	0	0	0	0	0	0
7/12/2024 11:10	43301	WATS_T2	0	0	0	0	0	0	-0.15	-0.13	1	1	0	900	900	0
7/12/2024 11:10	20403	ASHF_T2	0	0	0	0	0	0	1.53	1.59	0	0	0	0	0	0
7/12/2024 11:11	44801	EDAN_T2	4	2	-2	1.6	0.8	-0.8	-1.18	-1.18	0	0	0	0	0	0
7/12/2024 11:12	20401	ASHF_T2	2	5	3	0.65	0.78	0.13	0	0	0	0	0	0	0	0
7/12/2024 11:12	20403	ASHF_T2	0	0	0	0	0	0	1.53	1.59	0	0	0	0	0	0
7/12/2024 11:14	13503	MCMI_T2	0	25	25	0	0.14	0.14	0.14	-0.77	0	0	0	0	0	0
7/12/2024 11:14	44801	EDAN_T2	4	2	-2	1.6	0.8	-0.8	-1.18	-1.18	0	0	0	0	0	0
7/12/2024 11:17	55002	NEWP_T1	4	3	-1	0.4	0.13	-0.27	-0.08	0.04	0	0	0	0	0	0
7/12/2024 11:17	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 11:19	55002	NEWP_T1	4	3	-1	0.4	0.13	-0.27	-0.08	0.04	0	0	0	0	0	0
7/12/2024 11:20	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 11:21	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 11:22	67505	WEWI_T1	0	0	0	0	0	0	0.43	0.49	1	1	0	900	900	0
7/12/2024 11:25	67505	WEWI_T1	0	0	0	0	0	0	0.43	0.49	1	1	0	900	900	0
7/12/2024 11:27	14603	SWHI_T1	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1200	1200	0
7/12/2024 11:27	14605	SWHI_T1	2	1	-1	0.75	0	-0.75	0	0	0	0	0	0	0	0
7/12/2024 11:27	44801	EDAN_T2	1	2	1	1.5	0.8	-0.7	-1.18	-1.13	0	0	0	0	0	0
7/12/2024 11:27	52001	LING_T1	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
7/12/2024 11:28	13503	MCMI_T2	0	40	40	0	0.18	0.18	-0.77	0.78	0	0	0	0	0	0
7/12/2024 11:34	44703	MUNC_T2	0	0	0	0	0	0	1.05	1.05	0	0	0	0	0	0
7/12/2024 11:38	67001	STHI_T2	1	1	0	0.5	0.6	0.1	0.31	0.34	0	0	0	0	0	0
7/12/2024 11:40	67203	TEHI_T1	3	1	-2	0.97	0	-0.97	0	0	0	0	0	0	0	0
7/12/2024 11:40	67201	TEHI_T1	9	6	-3	0.82	0.15	-0.67	1.58	1.56	1	1	0	600	600	0
7/12/2024 11:41	60803	BUCK_T1	25	19	-6	0.87	0.95	0.08	0	0	0	0	0	0	0	0
7/12/2024 11:41	60801	BUCK_T1	42	28	-14	0.31	0.33	0.02	0.51	0.47	0	0	0	0	0	0
7/12/2024 11:41	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 11:42	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 11:44	46206	DANV_T2	50	54	4	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
7/12/2024 11:44	29402	BELT_T1	1	34	33	9.6	0.51	-9.09	0	0	0	0	0	0	0	0
7/12/2024 11:44	60803	BUCK_T1	25	19	-6	0.87	0.95	0.08	-0.34	-0.36	1	1	0	600	600	0
7/12/2024 11:44	60801	BUCK_T1	42	28	-14	0.31	0.33	0.02	0	0	0	0	0	0	0	0
7/12/2024 11:44	46204	DANV_T2	1	6	5	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/12/2024 11:44	46203	DANV_T2	0	0	0	0	0	0	-1.41	-1.33	0	0	0	0	0	0
7/12/2024 11:45	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/12/2024 11:45	44801	EDAN_T2	1	2	1	1.5	1.1	-0.4	-1.13	-1.15	0	0	0	0	0	0
7/12/2024 11:45	29402	BELT_T1	16	34	18	0.78	0.51	-0.27	0	0	0	0	0	0	0	0
7/12/2024 11:46	29402	BELT_T1	16	34	18	0.78	0.51	-0.27	0	0	0	0	0	0	0	0
7/12/2024 11:46	46204	DANV_T2	3	5	2	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
7/12/2024 11:46	12006	HATF_T1	0	0	0	0	0	0	0.49	0.5	2	2	0	2400	2400	0
7/12/2024 11:46	46206	DANV_T2	54	55	1	0.6	0.46	-0.14	4.03	3.66	4	4	0	4200	4200	0
7/12/2024 11:46	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/12/2024 11:46	25503	MADI_T1	1	0	-1	0.1	0	-0.1	-0.65	-0.64	0	0	0	0	0	0
7/12/2024 11:48	52403	GRPA_T2	7	9	2	0.76	0.73	-0.03	0	0.01	0	0	0	0	0	0
7/12/2024 11:48	29402	BELT_T1	16	34	18	0.78	0.51	-0.27	0	0	0	0	0	0	0	0
7/12/2024 11:48	52402	GRPA_T2	0	0	0	0	0	0	-0.63	-0.72	0	0	0	0	0	0
7/12/2024 11:49	60801	BUCK_T1	20	77	57	0.25	0.68	0.43	0	0	0	0	0	0	0	0
7/12/2024 11:49	52403	GRPA_T2	7	9	2	0.76	0.73	-0.03	0	0	0	0	0	0	0	0
7/12/2024 11:49	52404	GRPA_T2	0	0	0	0	0	0	0.95	0.82	0	0	0	0	0	0
7/12/2024 11:49	60803	BUCK_T1	19	29	10	0.91	0.95	0.04	-0.34	-0.36	1	1	0	600	600	0
7/12/2024 11:50	20601	GRWO_T2	56	69	13	0.49	0.27	-0.22	0.64	0.92	0	0	0	0	0	0
7/12/2024 11:50	52002	LING_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
7/12/2024 11:51	25503	MADI_T1	1	0	-1	0.1	0	-0.1	-0.65	-0.64	0	0	0	0	0	0
7/12/2024 11:51	13503	MCMI_T2	37	8	-29	0.19	0.13	-0.06	-0.78	-0.76	0	0	0	0	0	0
7/12/2024 11:51	52403	GRPA_T2	7	9	2	0.76	0.73	-0.03	0	0	0	0	0	0	0	0
7/12/2024 11:51	52402	GRPA_T2	0	0	0	0	0	0	-0.63	-0.72	0	0	0	0	0	0
7/12/2024 11:53	13503	MCMI_T2	37	8	-29	0.19	0.13	-0.06	-0.76	0.16	0	0	0	0	0	0
7/12/2024 11:54	43301	WATS_T2	0	0	0	0	0	0	-0.12	-0.09	1	1	0	900	900	0
7/12/2024 11:54	43201	MVIL_T2	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
7/12/2024 11:54	40602	PIGR_T1	1	1	0	1.4	1.6	0.2	-1.46	-1.33	1	1	0	600	600	0
7/12/2024 11:54	43202	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/12/2024 11:54	43304	WATS_T2	2	10	8	0.8	0.58	-0.22	0	0	0	0	0	0	0	0
7/12/2024 11:56	67401	WAKE_T2	0	8	8	0	0.1	0.1	-0.74	-0.75	0	0	0	0	0	0
7/12/2024 11:56	13503	MCMI_T2	37	8	-29	0.19	0.13	-0.06	-0.76	0.16	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/12/2024 11:56	64101	REFR_T1	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
7/12/2024 11:57	40602	PIGR_T1	1	1	0	1.4	1.6	0.2	-2.92	-2.66	2	2	0	1200	1200	0
7/12/2024 11:57	64101	REFR_T1	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
7/12/2024 11:57	65901	SAKR_T2	1	1	0	8	8.1	0.1	-0.7	-0.73	2	2	0	1500	1500	0
7/12/2024 11:57	65904	SAKR_T2	0	0	0	0	0	0	-1.46	-1.47	3	3	0	1500	1500	0
7/12/2024 11:58	67201	TEHI_T1	4	5	1	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
7/12/2024 11:58	64101	REFR_T1	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
7/12/2024 11:58	67203	TEHI_T1	1	1	0	0.4	0	-0.4	2.5	2.97	3	3	0	2100	2100	0
7/12/2024 11:59	46206	DANV_T2	54	55	1	0.6	0.46	-0.14	1.83	1.85	2	2	0	2100	2100	0
7/12/2024 11:59	46204	DANV_T2	3	5	2	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
7/12/2024 12:00	29402	BELT_T1	34	24	-10	0.51	0.57	0.06	0	0	0	0	0	0	0	0
7/12/2024 12:01	44801	EDAN_T2	1	2	1	1.1	1.3	0.2	-1.15	-1.14	0	0	0	0	0	0
7/12/2024 12:01	29402	BELT_T1	34	24	-10	0.51	0.57	0.06	0	0	0	0	0	0	0	0
7/12/2024 12:01	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/12/2024 12:03	63501	HEID_TBK1-2	0	0	0	0	0	0	0.1	0.12	1	1	0	900	900	0
7/12/2024 12:03	29402	BELT_T1	34	24	-10	0.51	0.57	0.06	0	0	0	0	0	0	0	0
7/12/2024 12:03	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 12:04	54504	ENOL_T2	0	0	0	0	0	0	-0.84	-0.83	1	1	0	600	600	0
7/12/2024 12:04	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 12:06	59003	MIFF_T1	0	0	0	0	0	0	-0.11	-0.3	0	0	0	0	0	0
7/12/2024 12:06	43304	WATS_T2	6	10	4	0.8	0.4	-0.4	-0.38	-0.4	1	1	0	600	600	0
7/12/2024 12:06	63501	HEID_TBK1-2	0	0	0	0	0	0	0.12	0.06	1	1	0	900	900	0
7/12/2024 12:07	64101	REFR_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
7/12/2024 12:07	63501	HEID_TBK1-2	0	0	0	0	0	0	0.12	0.06	1	1	0	900	900	0
7/12/2024 12:08	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 12:08	41901	REED_T1	1	6	5	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
7/12/2024 12:08	41902	REED_T1	2	2	0	0.3	0.3	0	0.69	0.68	0	0	0	0	0	0
7/12/2024 12:10	67402	WAKE_T2	0	0	0	0	0	0	0.87	0.88	1	1	0	600	600	0
7/12/2024 12:10	67401	WAKE_T2	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 12:14	67402	WAKE_T2	0	0	0	0	0	0	0.87	0.88	1	1	0	600	600	0
7/12/2024 12:14	67401	WAKE_T2	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 12:16	67402	WAKE_T2	0	0	0	0	0	0	0.87	0.88	1	1	0	600	600	0
7/12/2024 12:16	67401	WAKE_T2	8	10	2	0.1	0.12	0.02	0	0	0	0	0	0	0	0
7/12/2024 12:20	43202	MVIL_T2	1	0	-1	0.2	0	-0.2	-0.41	-0.39	0	0	0	0	0	0
7/12/2024 12:25	44301	BEAV_T2	1	7	6	0.1	0.5	0.4	-0.48	0.3	1	1	0	600	600	0
7/12/2024 12:26	60801	BUCK_T1	77	138	61	0.68	0.58	-0.1	0.06	0.08	0	0	0	0	0	0
7/12/2024 12:26	56501	ROCK_T2	5	6	1	0.2	0.3	0.1	-1.44	-1.33	0	0	0	0	0	0
7/12/2024 12:26	60803	BUCK_T1	29	52	23	0.95	0.7	-0.25	-0.87	-0.9	3	3	0	1800	1800	0
7/12/2024 12:27	20601	GRWO_T2	35	51	16	0.28	0.3	0.02	0	0	0	0	0	0	0	0
7/12/2024 12:27	20603	GRWO_T2	0	0	0	0	0	0	-0.43	-0.43	1	1	0	900	900	0
7/12/2024 12:27	66703	STRA_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
7/12/2024 12:28	60803	BUCK_T1	29	52	23	0.95	0.7	-0.25	0	0	0	0	0	0	0	0
7/12/2024 12:28	60801	BUCK_T1	77	138	61	0.68	0.58	-0.1	0.03	0.04	0	0	0	0	0	0
7/12/2024 12:31	60803	BUCK_T1	38	49	11	0.84	0.72	-0.12	-0.29	-0.3	1	1	0	600	600	0
7/12/2024 12:31	60801	BUCK_T1	106	136	30	0.63	0.59	-0.04	0	0	0	0	0	0	0	0
7/12/2024 12:33	23401	HONE_T2	0	1	1	0	0	0	-0.02	-0.02	0	0	0	0	0	0
7/12/2024 12:38	13303	ORVI_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
7/12/2024 12:43	29402	BELT_T1	22	16	-6	0.6	0.79	0.19	0	0	0	0	0	0	0	0
7/12/2024 12:43	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/12/2024 12:44	60801	BUCK_T1	106	136	30	0.63	0.59	-0.04	0.04	0.08	0	0	0	0	0	0
7/12/2024 12:44	60803	BUCK_T1	38	49	11	0.84	0.72	-0.12	0	0	0	0	0	0	0	0
7/12/2024 12:46	60803	BUCK_T1	49	33	-16	0.71	0.93	0.22	0	0	0	0	0	0	0	0
7/12/2024 12:46	63803	HEMP_T1	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
7/12/2024 12:46	63804	HEMP_T1	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
7/12/2024 12:46	60801	BUCK_T1	136	89	-47	0.58	0.68	0.1	0.04	0.08	0	0	0	0	0	0
7/12/2024 12:47	24102	EHAZ_T1	6	3	-3	0.52	0.3	-0.22	0	0	0	0	0	0	0	0
7/12/2024 12:47	24105	EHAZ_T1	4	0	-4	6.9	6.58	-0.32	0	0	0	0	0	0	0	0
7/12/2024 12:47	64702	LITI_T2	0	0	0	0	0	0	-0.09	0.04	0	0	0	0	0	0
7/12/2024 12:47	24103	EHAZ_T1	0	0	0	0	0	0	-1.07	-1.09	0	0	0	0	0	0
7/12/2024 12:47	23202	HIRU_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
7/12/2024 12:48	42902	MIDD_T2	1	2	1	0.9	1.2	0.3	0.04	0.05	1	1	0	600	600	0
7/12/2024 12:48	42903	MIDD_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/12/2024 12:48	42901	MIDD_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 12:49	40101	HUNT_T2	33	38	5	0.32	0.34	0.02	-0.1	-0.15	0	0	0	0	0	0
7/12/2024 12:51	40101	HUNT_T2	33	38	5	0.32	0.34	0.02	-0.05	-0.08	0	0	0	0	0	0
7/12/2024 12:52	60502	NMAN_T2	0	0	0	0	0	0	0.48	0.51	0	0	0	0	0	0
7/12/2024 12:52	60501	NMAN_T2	3	3	0	4.43	4.57	0.14	0	0	0	0	0	0	0	0
7/12/2024 12:53	67401	WAKE_T2	10	5	-5	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
7/12/2024 12:53	67402	WAKE_T2	0	0	0	0	0	0	0.91	0.87	1	1	0	600	600	0
7/12/2024 12:53	48302	ORWI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/12/2024 12:53	48303	ORWI_T2	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
7/12/2024 12:54	60501	NMAN_T2	3	3	0	4.43	4.57	0.14	0	0	0	0	0	0	0	0
7/12/2024 12:54	43304	WATS_T2	4	2	-2	0.48	0	-0.48	-0.4	-0.39	1	1	0	600	600	0
7/12/2024 12:54	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/12/2024 12:54	60502	NMAN_T2	0	0	0	0	0	0	0.48	0.51	0	0	0	0	0	0
7/12/2024 12:56	46001	BERW_T1	0	2	2	0	0	0	1.27	1.3	0	0	0	0	0	0
7/12/2024 12:56	29402	BELT_T1	16	4	-12	0.79	2.5	1.71	0	0	0	0	0	0	0	0
7/12/2024 12:57	46001	BERW_T1	0	2	2	0	0	0	1.27	1.3	0	0	0	0	0	0
7/12/2024 12:58	67402	WAKE_T2	0	0	0	0	0	0	0.91	0.87	1	1	0	600	600	0
7/12/2024 12:58	67401	WAKE_T2	10	5	-5	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
7/12/2024 13:00	13503	MCMI_T2	149	186	37	0.24	0.32	0.08	-0.71	-0.71	0	0	0	0	0	0
7/12/2024 13:01	13503	MCMI_T2	149	186	37	0.24	0.32	0.08	-0.71	-0.71	0	0	0	0	0	0
7/12/2024 13:02	11102	EGYP_T1	1	4	3	0.8	1	0.2	0	0	0	0	0	0	0	0
7/12/2024 13:02	48301	ORWI_T1	2	2	0	2.4	2.6	0.2	0.66	0.65	0	0	0	0	0	0
7/12/2024 13:02	63803	GREE_T1	0	0	0	0	0	0	-0.5	-0.44	2	2	0	1800	1800	0
7/12/2024 13:02	11104	EGYP_T1	5	6	1	1.18	1.6	0.42	2.14	2.28	0	0	0	0	0	0
7/12/2024 13:02	11101	EGYP_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
7/12/2024 13:03	17401	FOHI_T1	0	0	0	0	0	0	-1.57	-1.53	0	0	0	0	0	0
7/12/2024 13:07	63306	GREE_T1	0	0	0	0	0	0	-1.6	-1.61	1	1	0	900	900	0
7/12/2024 13:14	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/12/2024 13:14	29402	BELT_T1	1	4	3	9.4	2.5	-6.9	0	0	0	0	0	0	0	0
7/12/2024 13:14	46204	DANV_T2	7	4	-3	0.44	0.5	0.06	0	0	0	0	0	0	0	0
7/12/2024 13:14	46206	DANV_T2	95	88	-7	1.13	1.1	-0.03	2.3	2.28	2	2	0	2100	2100	0
7/12/2024 13:15	46204	DANV_T2	4	7	3	0.53	0.33	-0.2	0	0	0	0	0	0	0	0
7/12/2024 13:15	46206	DANV_T2	76	89	13	1.14	1.04	-0.1	2.3	2.28	2	2	0	2100	2100	0
7/12/2024 13:17	56803	BENV_T1	1	1	0	1.2	1.8	0.6	0	0	0	0	0	0	0	0
7/12/2024 13:17	56801	BENV_T1	5	1	-4	0.3	0.3	0	-0.37	-0.4	1	1	0	600	600	0
7/12/2024 13:18	67503	WEWI_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
7/12/2024 13:21	40101	HUNT_T2	35	32	-3	0.35	0.31	-0.04	-0.07	0	0	0	0	0	0	0
7/12/2024 13:24	67401	WAKE_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 13:24	67402	WAKE_T2	0	0	0	0	0	0	0.89	0.87	1	1	0	600	600	0
7/12/2024 13:25	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/12/2024 13:25	29402	BELT_T1	4	3	-1	2.5	3.23	0.73	0	0	0	0	0	0	0	0
7/12/2024 13:26	40101	HUNT_T2	35	32	-3	0.35	0.31	-0.04	0	-0.05	0	0	0	0	0	0
7/12/2024 13:28	48301	ORWI_T1	2	2	0	2.6	2.4	-0.2	0.7	0.73	0	0	0	0	0	0
7/12/2024 13:28	56801	BENV_T1	5	1	-4	0.3	0.3	0	-0.4	-0.38	1	1	0	600	600	0
7/12/2024 13:28	56803	BENV_T1	1	1	0	1.2	1.8	0.6	0	0	0	0	0	0	0	0
7/12/2024 13:30	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 13:31	46206	DANV_T2	88	77	-11	1.16	0.98	-0.18	2.28	2.23	2	2	0	2100	2100	0
7/12/2024 13:31	46204	DANV_T2	4	17	13	0.53	0.27	-0.26	0	0	0	0	0	0	0	0
7/12/2024 13:31	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 13:31	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 13:34	43802	SWIL_T1	0	0	0	0	0	0	0.48	0.54	1	1	0	600	600	0
7/12/2024 13:34	43801	SWIL_T1	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
7/12/2024 13:37	58003	WCAR_T1	1	3	2	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
7/12/2024 13:37	58001	WCAR_T1	4	5	1	0.28	0.5	0.22	0.24	0.31	0	0	0	0	0	0
7/12/2024 13:41	42201	SHEN_T2	0	0	0	0	0	0	0.29	0.32	1	1	0	600	600	0
7/12/2024 13:41	59101	WALK_T2	0	1	1	0	0.1	0.1	1.01	0.1	1	1	0	600	600	0
7/12/2024 13:43	42201	SHEN_T2	0	0	0	0	0	0	0.29	0.32	1	1	0	600	600	0
7/12/2024 13:46	20601	GRWO_T2	82	112	30	0.65	0.63	-0.02	0.93	0.93	0	0	0	0	0	0
7/12/2024 13:49	44902	SCOT_T2	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
7/12/2024 13:51	44902	SCOT_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
7/12/2024 13:52	41901	REED_T1	8	9	1	0.19	0.24	0.05	0	0	0	0	0	0	0	0
7/12/2024 13:52	41902	REED_T1	0	0	0	0	0	0	1.18	1.16	0	0	0	0	0	0
7/12/2024 13:53	50701	SMEC_T1	1	0	-1	0.6	0	-0.6	0.09	0.09	0	0	0	0	0	0
7/12/2024 13:57	59101	WALK_T2	0	1	1	0	0.1	0.1	0.1	0.34	1	0	-1	600	0	-600
7/12/2024 13:58	50701	SMEC_T1	1	0	-1	0.6	0	-0.6	0.09	0.09	0	0	0	0	0	0
7/12/2024 13:59	54502	ENOL_T2	0	0	0	0	0	0	-1.09	-1.07	1	1	0	600	600	0
7/12/2024 13:59	54504	ENOL_T2	0	0	0	0	0	0	-0.79	-0.73	1	1	0	600	600	0
7/12/2024 14:01	63802	HEMP_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
7/12/2024 14:01	63804	HEMP_T1	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0	0
7/12/2024 14:03	63802	HEMP_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
7/12/2024 14:03	63804	HEMP_T1	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0	0
7/12/2024 14:07	55002	NEWP_T1	0	2	2	0	1.2	1.2	0.08	0.1	0	0	0	0	0	0
7/12/2024 14:07	59101	WALK_T2	1	0	-1	0.1	0	-0.1	0.34	0.41	0	0	0	0	0	0
7/12/2024 14:08	44301	BEAV_T2	3	15	12	0.33	0.2	-0.13	0.41	0.11	1	1	0	600	600	0
7/12/2024 14:08	65902	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 14:08	65901	SAKR_T2	1	1	0	7.9	8.1	0.2	-0.76	-0.72	2	2	0	1500	1500	0
7/12/2024 14:08	44902	SCOT_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
7/12/2024 14:08	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 14:10	67201	TEHI_T1	0	7	7	0	0.21	0.21	0	0	0	0	0	0	0	0
7/12/2024 14:10	55002	NEWP_T1	0	2	2	0	1.2	1.2	0.04	0.05	0	0	0	0	0	0
7/12/2024 14:10	67203	TEHI_T1	1	0	-1	0.4	0	-0.4	2.39	2.51	3	3	0	2100	2100	0
7/12/2024 14:11	59101	WALK_T2	1	0	-1	0.1	0	-0.1	0.69	0.83	0	0	0	0	0	0
7/12/2024 14:12	13303	ORVI_T1	0	0	0	0	0	0	1.21	1.26	0	0	0	0	0	0
7/12/2024 14:12	41902	REED_T1	0	0	0	0	0	0	0.58	0.5	0	0	0	0	0	0
7/12/2024 14:12	55101	WERT_T1	3	0	-3	0.43	0	-0.43	-1.76	-1.91	4	4	0	3300	3300	0
7/12/2024 14:12	41901	REED_T1	4	9	5	0.2	0.39	0.19	0	0	0	0	0	0	0	0
7/12/2024 14:13	41901	REED_T1	4	9	5	0.2	0.39	0.19	0	0	0	0	0	0	0	0
7/12/2024 14:13	55101	WERT_T1	3	0	-3	0.43	0	-0.43	-1.76	-1.91	4	4	0	3300	3300	0
7/12/2024 14:13	59101	WALK_T2	1	0	-1	0.1	0	-0.1	0.34	0.41	0	0	0	0	0	0
7/12/2024 14:13	41902	REED_T1	0	0	0	0	0	0	0.58	0.5	0	0	0	0	0	0
7/12/2024 14:13	20403	ASHF_T2	0	0	0	0	0	0	1.63	1.6	0	0	0	0	0	0
7/12/2024 14:13	20401	ASHF_T2	2	4	2	0.55	0.77	0.22	0	0	0	0	0	0	0	0
7/12/2024 14:14	56801	BENV_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
7/12/2024 14:14	56803	BENV_T1	2	2	0	1.1	1.05	-0.05	0.28	0.37	1	1	0	600	600	0
7/12/2024 14:14	58003	WCAR_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/12/2024 14:14	58001	WCAR_T1	4	4	0	0.45	0.6	0.15	0.29	0.34	0	0	0	0	0	0
7/12/2024 14:14	59101	WALK_T2	1	0	-1	0.1	0	-0.1	0.69	0.83	0	0	0	0	0	0
7/12/2024 14:14	20401	ASHF_T2	2	4	2	0.55	0.77	0.22	0.35	0.35	0	0	0	0	0	0
7/12/2024 14:15	52404	GRPA_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
7/12/2024 14:15	20601	GRWO_T2	112	152	40	0.68	0.63	-0.05	0.96	1.01	0	0	0	0	0	0
7/12/2024 14:15	52402	GRPA_T2	1	12	11	0.2	0.9	0.7	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/12/2024 14:15	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 14:15	52403	GRPA_T2	58	72	14	0.76	0.71	-0.05	0	0	0	0	0	0	0	0
7/12/2024 14:16	20403	ASHF_T2	0	0	0	0	0	0	1.63	1.6	0	0	0	0	0	0
7/12/2024 14:16	61301	EARL_T1	0	0	0	0	0	0	-1.25	-1.22	2	2	0	1800	1800	0
7/12/2024 14:16	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 14:16	52402	GRPA_T2	1	12	11	0.2	0.9	0.7	0	0	0	0	0	0	0	0
7/12/2024 14:16	55101	WERT_T1	0	0	0	0	0	0	-1.76	-1.91	4	4	0	3300	3300	0
7/12/2024 14:16	52403	GRPA_T2	58	72	14	0.76	0.71	-0.05	0	0	0	0	0	0	0	0
7/12/2024 14:16	20401	ASHF_T2	3	4	1	0.77	0.85	0.08	0	0	0	0	0	0	0	0
7/12/2024 14:16	52404	GRPA_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
7/12/2024 14:17	59101	WALK_T2	0	0	0	0	0	0	0.34	0.41	0	0	0	0	0	0
7/12/2024 14:17	63306	GREE_T1	9	21	12	0.33	0.51	0.18	0	0	0	0	0	0	0	0
7/12/2024 14:17	63304	GREE_T1	0	0	0	0	0	0	-1.04	-0.82	0	0	0	0	0	0
7/12/2024 14:17	63303	GREE_T1	199	249	50	0.44	0.55	0.11	0	0	0	0	0	0	0	0
7/12/2024 14:18	20401	ASHF_T2	3	4	1	0.77	0.85	0.08	0	0	0	0	0	0	0	0
7/12/2024 14:18	20403	ASHF_T2	0	0	0	0	0	0	1.63	1.6	0	0	0	0	0	0
7/12/2024 14:19	59101	WALK_T2	0	0	0	0	0	0	0.34	0.41	0	0	0	0	0	0
7/12/2024 14:20	52004	LING_T2	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
7/12/2024 14:21	55002	NEWP_T1	2	3	1	1.15	0.83	-0.32	0.04	0.05	0	0	0	0	0	0
7/12/2024 14:22	44202	POIN_T2	0	0	0	0	0	0	-0.67	-0.7	2	2	0	1800	1800	0
7/12/2024 14:22	44203	POIN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 14:23	40602	PIGR_T1	1	1	0	1.2	0.8	-0.4	-1.29	-1.28	1	1	0	600	600	0
7/12/2024 14:23	40101	HUNT_T2	145	133	-12	0.52	0.4	-0.12	-0.01	-0.01	0	0	0	0	0	0
7/12/2024 14:23	55002	NEWP_T1	2	3	1	1.15	0.83	-0.32	0.1	0.16	0	0	0	0	0	0
7/12/2024 14:23	66703	STRA_T1	0	0	0	0	0	0	0.64	0.6	0	0	0	0	0	0
7/12/2024 14:23	16402	MOPO_T1	0	3	3	0	0.7	0.7	0.96	0.9	0	0	0	0	0	0
7/12/2024 14:23	65502	MOJO_T2	0	0	0	0	0	0	-0.1	-0.15	1	1	0	900	900	0
7/12/2024 14:24	65902	SAKR_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/12/2024 14:24	65901	SAKR_T2	1	1	0	7.9	8.1	0.2	-0.72	-0.67	2	2	0	1500	1500	0
7/12/2024 14:24	40101	HUNT_T2	145	133	-12	0.52	0.4	-0.12	-0.01	-0.01	0	0	0	0	0	0
7/12/2024 14:25	44601	SALE_T2	0	0	0	0	0	0	-0.02	-0.07	0	0	0	0	0	0
7/12/2024 14:25	65502	MOJO_T2	0	0	0	0	0	0	-0.1	-0.15	1	1	0	900	900	0
7/12/2024 14:26	44601	SALE_T2	0	0	0	0	0	0	-0.02	-0.07	0	0	0	0	0	0
7/12/2024 14:26	46206	DANV_T2	72	77	5	0.9	1.06	0.16	0	0	0	0	0	0	0	0
7/12/2024 14:26	46204	DANV_T2	3	10	7	0.3	0.3	0	0	0	0	0	0	0	0	0
7/12/2024 14:26	46203	DANV_T2	1	0	-1	0.4	0	-0.4	-1.33	-1.39	0	0	0	0	0	0
7/12/2024 14:27	46206	DANV_T2	72	77	5	0.9	1.06	0.16	0	0	0	0	0	0	0	0
7/12/2024 14:27	55101	WERT_T1	0	0	0	0	0	0	-1.91	-1.81	4	4	0	3300	3300	0
7/12/2024 14:27	46203	DANV_T2	1	0	-1	0.4	0	-0.4	-1.33	-1.39	0	0	0	0	0	0
7/12/2024 14:27	40602	PIGR_T1	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
7/12/2024 14:27	46204	DANV_T2	3	10	7	0.3	0.3	0	0	0	0	0	0	0	0	0
7/12/2024 14:27	40603	PIGR_T1	0	0	0	0	0	0	0.61	0.64	0	0	0	0	0	0
7/12/2024 14:27	43802	SWIL_T1	0	0	0	0	0	0	0.53	0.58	1	1	0	600	600	0
7/12/2024 14:27	43801	SWIL_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
7/12/2024 14:28	58003	WCAR_T1	1	1	0	0.5	0.6	0.1	1.08	1.09	0	0	0	0	0	0
7/12/2024 14:28	52002	LING_T2	0	0	0	0	0	0	0.57	0.54	0	0	0	0	0	0
7/12/2024 14:28	46206	DANV_T2	72	77	5	0.9	1.06	0.16	0	0	0	0	0	0	0	0
7/12/2024 14:28	29402	BELT_T1	4	1	-3	2.53	9.4	6.87	0	0	0	0	0	0	0	0
7/12/2024 14:28	58001	WCAR_T1	4	4	0	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
7/12/2024 14:28	55101	WERT_T1	0	0	0	0	0	0	-5.73	-5.42	12	12	0	9900	9900	0
7/12/2024 14:28	46203	DANV_T2	1	0	-1	0.4	0	-0.4	-1.33	-1.39	0	0	0	0	0	0
7/12/2024 14:28	46204	DANV_T2	3	10	7	0.3	0.3	0	0	0	0	0	0	0	0	0
7/12/2024 14:28	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/12/2024 14:29	42201	SHEN_T2	0	0	0	0	0	0	0.11	0.11	1	1	0	600	600	0
7/12/2024 14:29	65901	SAKR_T2	1	1	0	7.9	8.1	0.2	0	0	0	0	0	0	0	0
7/12/2024 14:29	65902	SAKR_T2	0	1	1	0	0.5	0.5	-0.64	-0.69	1	1	0	900	900	0
7/12/2024 14:29	55101	WERT_T1	0	0	0	0	0	0	-1.91	-1.81	4	4	0	3300	3300	0
7/12/2024 14:30	21206	ECAR_T2	1	1	0	7.2	7.4	0.2	0.56	0.59	0	0	0	0	0	0
7/12/2024 14:30	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 14:31	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 14:31	46206	DANV_T2	66	84	18	1.05	0.89	-0.16	2.38	2.32	2	2	0	2100	2100	0
7/12/2024 14:31	46204	DANV_T2	5	10	5	0.34	0.17	-0.17	0	0	0	0	0	0	0	0
7/12/2024 14:31	29402	BELT_T1	1	1	0	9.3	9.4	0.1	0	0	0	0	0	0	0	0
7/12/2024 14:31	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/12/2024 14:31	61301	EARL_T1	0	0	0	0	0	0	-1.22	-1.17	2	2	0	1800	1800	0
7/12/2024 14:32	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/12/2024 14:32	43802	SWIL_T1	0	0	0	0	0	0	0.53	0.58	1	1	0	600	600	0
7/12/2024 14:32	43801	SWIL_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
7/12/2024 14:32	46206	DANV_T2	66	84	18	1.05	0.89	-0.16	0	0	0	0	0	0	0	0
7/12/2024 14:32	46204	DANV_T2	5	10	5	0.34	0.17	-0.17	0	0	0	0	0	0	0	0
7/12/2024 14:32	46203	DANV_T2	0	1	1	0	0	0	-1.33	-1.39	0	0	0	0	0	0
7/12/2024 14:32	61301	EARL_T1	0	0	0	0	0	0	-1.22	-1.17	2	2	0	1800	1800	0
7/12/2024 14:32	29402	BELT_T1	1	1	0	9.3	9.4	0.1	0	0	0	0	0	0	0	0
7/12/2024 14:33	44801	EDAN_T2	1	1	0	0.8	0.7	-0.1	-1.18	-1.18	0	0	0	0	0	0
7/12/2024 14:33	44802	EDAN_T2	0	0	0	0	0	0	-0.58	-0.51	0	0	0	0	0	0
7/12/2024 14:34	46204	DANV_T2	5	10	5	0.34	0.17	-0.17	0	0	0	0	0	0	0	0
7/12/2024 14:34	46206	DANV_T2	66	84	18	1.05	0.89	-0.16	4.77	4.63	4	4	0	4200	4200	0
7/12/2024 14:34	44802	EDAN_T2	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
7/12/2024 14:34	67605	WARW_T1	0	0	0	0	0	0	-0.65	-0.62	0	0	0	0	0	0
7/12/2024 14:34	44801	EDAN_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
7/12/2024 14:34	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 14:34	52004	LING_T2	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
7/12/2024 14:35	44802	EDAN_T2	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
7/12/2024 14:35	42002	MNVL_T2	2	1	-1	2.05	2.8	0.75	0	0	0	0	0	0	0	0
7/12/2024 14:35	44801	EDAN_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
7/12/2024 14:35	42001	MNVL_T2	0	0	0	0	0	0	0.97	0.41	0	0	0	0	0	0
7/12/2024 14:36	44801	EDAN_T2	1	1	0	0.8	0.7	-0.1	-1.18	-1.19	0	0	0	0	0	0
7/12/2024 14:36	52004	LING_T2	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
7/12/2024 14:37	65206	PRIN_T4	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/12/2024 14:37	58401	MORO_T1	0	1	1	0	0	0	-0.38	-0.39	1	1	0	600	600	0
7/12/2024 14:37	57401	SPAN_T1	0	0	0	0	0	0	-0.58	-0.61	1	1	0	600	600	0
7/12/2024 14:37	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 14:37	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/12/2024 14:38	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 14:38	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 14:38	58401	MORO_T1	0	1	1	0	0	0	-0.38	-0.39	1	1	0	600	600	0
7/12/2024 14:39	44201	POIN_T1	0	0	0	0	0	0	-1.88	-1.85	2	2	0	2100	2100	0
7/12/2024 14:40	65901	SAKR_T2	1	1	0	8.1	7.8	-0.3	-0.67	-0.71	2	2	0	1500	1500	0
7/12/2024 14:40	65902	SAKR_T2	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
7/12/2024 14:43	43304	WATS_T2	7	4	-3	0.69	1.1	0.41	-0.35	-0.71	1	1	0	600	600	0
7/12/2024 14:43	43301	WATS_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/12/2024 14:43	44602	WOOL_T1	0	2	2	0	0.15	0.15	0.82	0.84	0	0	0	0	0	0
7/12/2024 14:44	46206	DANV_T2	66	84	18	1.05	0.89	-0.16	2.32	2.32	2	2	0	2100	2100	0
7/12/2024 14:44	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 14:44	46204	DANV_T2	5	10	5	0.34	0.17	-0.17	0	0	0	0	0	0	0	0
7/12/2024 14:44	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/12/2024 14:44	20403	ASHF_T2	0	0	0	0	0	0	1.59	1.54	0	0	0	0	0	0
7/12/2024 14:44	20401	ASHF_T2	4	2	-2	1.03	0.8	-0.23	0	0	0	0	0	0	0	0
7/12/2024 14:45	46203	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 14:45	56801	BENV_T1	0	0	0	0	0	0	-0.27	-0.26	1	1	0	600	600	0
7/12/2024 14:45	56803	BENV_T1	2	2	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/12/2024 14:45	46206	DANV_T2	73	77	4	1.05	0.7	-0.35	2.32	2.32	2	2	0	2100	2100	0
7/12/2024 14:45	46204	DANV_T2	10	5	-5	0.36	0.1	-0.26	0	0	0	0	0	0	0	0
7/12/2024 14:45	45602	WOOL_T1	2	0	-2	0.15	0	-0.15	0.82	0.84	0	0	0	0	0	0
7/12/2024 14:47	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/12/2024 14:47	29402	BELT_T1	1	3	2	9.4	3.37	-6.03	0	0	0	0	0	0	0	0
7/12/2024 14:48	45602	WOOL_T1	2	0	-2	0.15	0	-0.15	0.82	0.84	0	0	0	0	0	0
7/12/2024 14:48	25402	LAHA_T2	0	0	0	0	0	0	-0.41	-0.34	0	0	0	0	0	0
7/12/2024 14:49	44801	EDAN_T2	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
7/12/2024 14:49	44802	EDAN_T2	0	0	0	0	0	0	-0.26	-0.23	0	0	0	0	0	0
7/12/2024 14:50	44801	EDAN_T2	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
7/12/2024 14:50	44802	EDAN_T2	0	0	0	0	0	0	-0.26	-0.23	0	0	0	0	0	0
7/12/2024 14:51	63401	HONY_T1	0	0	0	0	0	0	0.45	0.5	1	1	0	600	600	0
7/12/2024 14:53	58402	MORO_T1	1	0	-1	0	0.2	-0.2	0	0	0	0	0	0	0	0
7/12/2024 14:53	58401	MORO_T1	0	1	1	0	0	0	-0.39	-0.34	1	1	0	600	600	0
7/12/2024 14:54	43304	WATS_T2	4	3	-1	0.75	1.1	0.35	0	0	0	0	0	0	0	0
7/12/2024 14:54	44201	POIN_T1	0	0	0	0	0	0	-1.85	-1.81	2	2	0	2100	2100	0
7/12/2024 14:54	43301	WATS_T2	1	1	0	0.4	0.5	0.1	0.03	0.02	1	1	0	900	900	0
7/12/2024 14:55	43304	WATS_T2	4	3	-1	0.75	1.1	0.35	0	0	0	0	0	0	0	0
7/12/2024 14:55	43301	WATS_T2	1	1	0	0.4	0.5	0.1	0.03	0.02	1	1	0	900	900	0
7/12/2024 14:55	44201	POIN_T1	0	0	0	0	0	0	-1.85	-1.81	2	2	0	2100	2100	0
7/12/2024 14:56	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 14:56	66504	SMAN_T2	0	0	0	0	0	0	0.91	1.19	0	0	0	0	0	0
7/12/2024 14:57	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 14:57	66504	SMAN_T2	0	0	0	0	0	0	0.45	0.59	0	0	0	0	0	0
7/12/2024 14:58	40801	EXCH_T2	1	3	2	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/12/2024 14:58	40802	EXCH_T2	0	5	5	0	0.2	0.2	-0.43	-0.51	0	0	0	0	0	0
7/12/2024 14:59	43304	WATS_T2	4	3	-1	0.75	1.1	0.35	-1.41	-0.72	2	2	0	1200	1200	0
7/12/2024 14:59	42601	TUSC_T1	0	0	0	0	0	0	-1.81	-1.18	3	2	-1	2400	1800	-600
7/12/2024 14:59	45602	WOOL_T1	2	0	-2	0.15	0	-0.15	0.84	0.81	0	0	0	0	0	0
7/12/2024 14:59	43301	WATS_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/12/2024 15:00	46203	DANV_T2	1	1	0	0.4	0	-0.4	-1.35	-1.35	0	0	0	0	0	0
7/12/2024 15:00	43304	WATS_T2	2	3	1	1.1	0.47	-0.63	-1.41	-0.72	2	2	0	1200	1200	0
7/12/2024 15:00	43301	WATS_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/12/2024 15:00	46204	DANV_T2	3	7	4	0.17	0.25	0.08	0	0	0	0	0	0	0	0
7/12/2024 15:00	46206	DANV_T2	75	58	-17	0.84	0.52	-0.32	0	0	0	0	0	0	0	0
7/12/2024 15:01	43304	WATS_T2	2	3	1	1.1	0.47	-0.63	-1.41	-0.72	2	2	0	1200	1200	0
7/12/2024 15:01	43301	WATS_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/12/2024 15:02	46204	DANV_T2	3	7	4	0.17	0.25	0.08	0	0	0	0	0	0	0	0
7/12/2024 15:02	12601	MACA_T1	0	0	0	0	0	0	1.22	1.26	0	0	0	0	0	0
7/12/2024 15:02	46203	DANV_T2	1	1	0	0.4	0	-0.4	-1.35	-1.35	0	0	0	0	0	0
7/12/2024 15:02	46206	DANV_T2	75	58	-17	0.84	0.52	-0.32	0	0	0	0	0	0	0	0
7/12/2024 15:03	46206	DANV_T2	75	58	-17	0.84	0.52	-0.32	0	0	0	0	0	0	0	0
7/12/2024 15:03	46204	DANV_T2	3	7	4	0.17	0.25	0.08	0	0	0	0	0	0	0	0
7/12/2024 15:03	46203	DANV_T2	1	1	0	0.4	0	-0.4	-1.35	-1.35	0	0	0	0	0	0
7/12/2024 15:03	46004	BERW_T2	0	0	0	0	0	0	0.34	0.28	0	0	0	0	0	0
7/12/2024 15:04	40801	EXCH_T2	3	3	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/12/2024 15:04	40802	EXCH_T2	0	5	5	0	0.2	0.2	-0.43	-0.51	0	0	0	0	0	0
7/12/2024 15:06	47403	PENS_T1	6	7	1	0.87	0.6	-0.27	0	0	0	0	0	0	0	0
7/12/2024 15:06	47401	PENS_T1	3	6	3	0.5	0.58	0.08	1.3	1.32	0	0	0	0	0	0
7/12/2024 15:07	47401	PENS_T1	3	6	3	0.5	0.58	0.08	1.3	1.32	0	0	0	0	0	0
7/12/2024 15:07	40101	HUNT_T2	4	5	1	0.6	0.1	-0.5	-0.31	-0.21	0	0	0	0	0	0
7/12/2024 15:07	47403	PENS_T1	6	7	1	0.87	0.6	-0.27	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/12/2024 15:08	55101	WERT_T1	0	0	0	0	0	0	-1.93	-1.85	4	4	0	3300	3300	0
7/12/2024 15:08	47401	PENS_T1	3	6	3	0.5	0.58	0.08	1.94	1.99	0	0	0	0	0	0
7/12/2024 15:08	47403	PENS_T1	6	7	1	0.87	0.6	-0.27	0	0	0	0	0	0	0	0
7/12/2024 15:09	47403	PENS_T1	6	7	1	0.87	0.6	-0.27	0	0	0	0	0	0	0	0
7/12/2024 15:09	47401	PENS_T1	3	6	3	0.5	0.58	0.08	1.3	1.32	0	0	0	0	0	0
7/12/2024 15:10	47403	PENS_T1	6	7	1	0.87	0.6	-0.27	0	0	0	0	0	0	0	0
7/12/2024 15:10	47401	PENS_T1	3	6	3	0.5	0.58	0.08	0.65	0.66	0	0	0	0	0	0
7/12/2024 15:12	42701	AUGU_T1	0	2	2	0	0	0	0	0	2	2	0	1800	1800	0
7/12/2024 15:14	60201	ATGL_T2	0	0	0	0	0	0	0.07	0.1	2	2	0	900	900	0
7/12/2024 15:15	20403	ASHF_T2	0	0	0	0	0	0	1.62	1.64	0	0	0	0	0	0
7/12/2024 15:15	40802	EXCH_T2	5	1	-4	0.2	0.2	0	0	0	0	0	0	0	0	0
7/12/2024 15:15	20401	ASHF_T2	2	2	0	1.05	0.8	-0.25	0	0	0	0	0	0	0	0
7/12/2024 15:15	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 15:15	40801	EXCH_T2	3	4	1	0.5	0.17	-0.33	0.1	0.04	1	1	0	1200	1200	0
7/12/2024 15:16	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/12/2024 15:16	59101	WALK_T2	0	0	0	0	0	0	0.48	0.38	0	0	0	0	0	0
7/12/2024 15:16	44802	EDAN_T2	0	0	0	0	0	0	-0.32	-0.25	0	0	0	0	0	0
7/12/2024 15:16	44801	EDAN_T2	2	4	2	1.25	0.35	-0.9	0	0	0	0	0	0	0	0
7/12/2024 15:18	40801	EXCH_T2	3	4	1	0.5	0.17	-0.33	0	0	0	0	0	0	0	0
7/12/2024 15:18	40802	EXCH_T2	5	1	-4	0.2	0.2	0	-0.51	-0.02	0	0	0	0	0	0
7/12/2024 15:20	52402	GRPA_T2	9	9	0	0.82	0.4	-0.42	0	0	0	0	0	0	0	0
7/12/2024 15:20	52401	GRPA_T2	4	16	12	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/12/2024 15:20	40101	HUNT_T2	5	3	-2	0.24	0.2	-0.04	-0.31	-0.21	0	0	0	0	0	0
7/12/2024 15:20	44802	EDAN_T2	0	0	0	0	0	0	-0.64	-0.5	0	0	0	0	0	0
7/12/2024 15:20	44801	EDAN_T2	2	4	2	1.25	0.35	-0.9	0	0	0	0	0	0	0	0
7/12/2024 15:20	52403	GRPA_T2	66	92	26	1.1	1.16	0.06	0.27	0.22	0	0	0	0	0	0
7/12/2024 15:20	52404	GRPA_T2	1	2	1	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
7/12/2024 15:20	63401	HONY_T1	0	0	0	0	0	0	0.5	0.43	1	1	0	600	600	0
7/12/2024 15:21	63401	HONY_T1	0	0	0	0	0	0	0.86	0.68	2	2	0	1200	1200	0
7/12/2024 15:21	52401	GRPA_T2	4	16	12	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/12/2024 15:21	52404	GRPA_T2	1	2	1	0.9	0.7	-0.2	0.31	0.37	0	0	0	0	0	0
7/12/2024 15:21	52403	GRPA_T2	66	92	26	1.1	1.16	0.06	0	0	0	0	0	0	0	0
7/12/2024 15:21	52402	GRPA_T2	9	9	0	0.82	0.4	-0.42	-0.49	-0.4	0	0	0	0	0	0
7/12/2024 15:25	47403	PENS_T1	6	4	-2	0.62	0.68	0.06	0	0	0	0	0	0	0	0
7/12/2024 15:25	47401	PENS_T1	4	10	6	0.4	0.68	0.28	0.66	0.67	0	0	0	0	0	0
7/12/2024 15:26	64101	REFR_T1	0	0	0	0	0	0	0.35	0.41	0	0	0	0	0	0
7/12/2024 15:28	64101	REFR_T1	0	0	0	0	0	0	0.35	0.41	0	0	0	0	0	0
7/12/2024 15:29	64101	REFR_T1	0	0	0	0	0	0	0.35	0.41	0	0	0	0	0	0
7/12/2024 15:33	58001	WCAR_T1	3	4	1	0.37	0.25	-0.12	0.35	0.3	0	0	0	0	0	0
7/12/2024 15:33	58003	WCAR_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/12/2024 15:38	40602	PIGR_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
7/12/2024 15:38	40603	PIGR_T1	0	0	0	0	0	0	0.74	0.68	0	0	0	0	0	0
7/12/2024 15:41	40603	PIGR_T1	0	0	0	0	0	0	1.48	1.36	0	0	0	0	0	0
7/12/2024 15:41	40602	PIGR_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
7/12/2024 15:42	47401	PENS_T1	6	12	6	0.67	0.79	0.12	0.67	0.62	0	0	0	0	0	0
7/12/2024 15:42	47403	PENS_T1	4	4	0	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
7/12/2024 15:50	67605	WARW_T1	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
7/12/2024 15:50	52403	GRPA_T2	90	89	-1	1.25	0.8	-0.45	0	0	0	0	0	0	0	0
7/12/2024 15:50	52404	GRPA_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/12/2024 15:50	52402	GRPA_T2	9	6	-3	0.46	0.33	-0.13	-0.41	-0.52	0	0	0	0	0	0
7/12/2024 15:50	52401	GRPA_T2	16	36	20	0.54	0.36	-0.18	0	0	0	0	0	0	0	0
7/12/2024 15:53	52404	GRPA_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/12/2024 15:53	52402	GRPA_T2	9	6	-3	0.46	0.33	-0.13	-0.52	-0.45	0	0	0	0	0	0
7/12/2024 15:53	56802	BENV_T2	0	0	0	0	0	0	-0.73	-0.77	0	0	0	0	0	0
7/12/2024 15:53	52403	GRPA_T2	90	89	-1	1.25	0.8	-0.45	0	0	0	0	0	0	0	0
7/12/2024 15:53	52401	GRPA_T2	16	36	20	0.54	0.36	-0.18	0	0	0	0	0	0	0	0
7/12/2024 16:03	56802	BENV_T2	0	0	0	0	0	0	-0.73	-0.77	0	0	0	0	0	0
7/12/2024 16:09	48301	ORWI_T1	2	2	0	3	2.9	-0.1	0.57	0.56	0	0	0	0	0	0
7/12/2024 16:14	61102	BERK_T5	0	0	0	0	0	0	0.69	0.63	1	1	0	300	300	0
7/12/2024 16:15	61102	BERK_T5	0	0	0	0	0	0	0.69	0.63	1	1	0	300	300	0
7/12/2024 16:16	61102	BERK_T5	0	0	0	0	0	0	0.69	0.63	1	1	0	300	300	0
7/12/2024 16:36	67805	WLAN_T1	0	0	0	0	0	0	-0.85	-0.93	0	0	0	0	0	0
7/12/2024 16:36	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/12/2024 16:36	67801	WLAN_T1	353	95	-258	1.4	0	-1.4	0	0	0	0	0	0	0	0
7/12/2024 16:40	67805	WLAN_T1	0	0	0	0	0	0	-0.85	-0.93	0	0	0	0	0	0
7/12/2024 16:40	67801	WLAN_T1	353	95	-258	1.4	0	-1.4	0	0	0	0	0	0	0	0
7/12/2024 16:40	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/12/2024 16:46	55101	WERT_T1	0	0	0	0	0	0	-1.87	-1.91	4	4	0	3300	3300	0
7/12/2024 16:54	14603	SWHI_T1	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1200	1200	0
7/12/2024 16:55	14603	SWHI_T1	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1200	1200	0
7/12/2024 17:00	44301	BEAV_T2	49	82	33	0.78	0.72	-0.06	-0.11	-0.04	1	1	0	600	600	0
7/12/2024 17:04	46203	DANV_T2	0	5	5	0	0.6	0.6	-3.66	-3.9	0	0	0	0	0	0
7/12/2024 17:04	46206	DANV_T2	63	71	8	0.74	0.54	-0.2	0	0	0	0	0	0	0	0
7/12/2024 17:04	46204	DANV_T2	17	12	-5	0.28	0.3	0.02	0	0	0	0	0	0	0	0
7/12/2024 17:15	44301	BEAV_T2	78	77	-1	0.83	0.66	-0.17	-0.04	-0.01	1	1	0	600	600	0
7/12/2024 17:19	61701	ELIZ_T1	1	1	0	4	3.9	-0.1	1.12	1.18	0	0	0	0	0	0
7/12/2024 17:20	62102	ELAN_T1	0	0	0	0	0	0	1.55	1.49	0	0	0	0	0	0
7/12/2024 17:20	12301	LANA_T2	1	1	0	1.6	0.7	-0.9	-0.88	-0.88	0	0	0	0	0	0
7/12/2024 17:20	12304	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 17:33	67603	WARW_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
7/12/2024 17:33	67605	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 17:37	67603	WARW_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
7/12/2024 17:37	67605	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 17:38	67603	WARW_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
7/12/2024 17:38	67605	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 17:42	43304	WATS_T2	16	32	16	0.59	0.56	-0.03	-0.34	-0.37	1	1	0	600	600	0
7/12/2024 17:42	43301	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 17:57	27605	PIRI_T2	11	23	12	0.2	0.27	0.07	1.14	1.2	0	0	0	0	0	0
7/12/2024 17:57	27603	PIRI_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/12/2024 18:58	58001	WCAR_T1	4	4	0	0.5	1.13	0.63	0	0	0	0	0	0	0	0
7/12/2024 18:58	58003	WCAR_T1	1	22	21	1.7	0.22	-1.48	0.45	0.43	1	1	0	600	600	0
7/12/2024 19:01	43304	WATS_T2	35	41	6	0.66	0.58	-0.08	-0.46	-0.38	1	1	0	600	600	0
7/12/2024 19:01	43301	WATS_T2	1	0	-1	2.4	0	-2.4	0	0	0	0	0	0	0	0
7/12/2024 19:06	43301	WATS_T2	1	0	-1	2.4	0	-2.4	0	0	0	0	0	0	0	0
7/12/2024 19:06	43304	WATS_T2	35	41	6	0.66	0.58	-0.08	-0.38	-0.53	1	1	0	600	600	0
7/12/2024 19:07	43301	WATS_T2	1	0	-1	2.4	0	-2.4	0	0	0	0	0	0	0	0
7/12/2024 19:07	43304	WATS_T2	35	41	6	0.66	0.58	-0.08	-0.38	-0.53	1	1	0	600	600	0
7/12/2024 19:08	65302	NBRI_T2	0	0	0	0	0	0	-0.99	-0.92	1	1	0	600	600	0
7/12/2024 19:16	14601	SWHI_T1	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
7/12/2024 19:56	40601	PIGR_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/12/2024 19:56	40602	PIGR_T1	1	0	-1	0.1	0	-0.1	-1.39	-1.43	1	1	0	600	600	0
7/12/2024 19:58	47802	MOCA_T2	0	0	0	0	0	0	0.63	-0.64	0	0	0	0	0	0
7/12/2024 20:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 20:15	64203	KINZ_T1	0	0	0	0	0	0	0.06	0.67	1	0	-1	600	0	-600
7/12/2024 20:15	64201	KINZ_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
7/12/2024 20:15	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
7/12/2024 20:18	60801	BUCK_T1	99	127	28	0.62	0.6	-0.02	0	0	0	0	0	0	0	0
7/12/2024 20:18	60803	BUCK_T1	34	45	11	0.88	0.81	-0.07	-0.32	-0.3	1	1	0	600	600	0
7/12/2024 20:21	13903	SEID_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 20:21	13904	SEID_T1	11	12	1	0.34	0.25	-0.09	0	0	0	0	0	0	0	0
7/12/2024 20:21	13905	SEID_T1	0	0	0	0	0	0	-0.5	-0.58	1	1	0	1200	1200	0
7/12/2024 20:24	57401	SPAN_T1	0	0	0	0	0	0	-0.6	-0.63	1	1	0	600	600	0
7/12/2024 20:26	57401	SPAN_T1	0	0	0	0	0	0	-0.6	-0.63	1	1	0	600	600	0
7/12/2024 20:27	22701	MINO_T1	0	0	0	0	0	0	-0.49	-0.45	1	1	0	600	600	0
7/12/2024 20:28	57401	SPAN_T1	0	0	0	0	0	0	-0.6	-0.63	1	1	0	600	600	0
7/12/2024 20:33	57401	SPAN_T1	0	0	0	0	0	0	-0.6	-0.63	1	1	0	600	600	0
7/12/2024 20:43	43304	WATS_T2	14	30	16	0.6	0.44	-0.16	-0.02	-0.06	0	0	0	0	0	0
7/12/2024 21:01	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 21:03	59101	WALK_T2	0	0	0	0	0	0	0.27	0.09	0	0	0	0	0	0
7/12/2024 21:11	43301	WATS_T2	0	1	1	0	0.4	0.4	-0.22	-0.29	2	2	0	1800	1800	0
7/12/2024 21:11	43304	WATS_T2	29	5	-24	0.59	0.5	-0.09	0	0	0	0	0	0	0	0
7/12/2024 21:12	43301	WATS_T2	0	1	1	0	0.4	0.4	-0.11	-0.14	1	1	0	900	900	0
7/12/2024 21:12	43304	WATS_T2	29	5	-24	0.59	0.5	-0.09	0	0	0	0	0	0	0	0
7/12/2024 21:30	67505	WEWI_T1	0	0	0	0	0	0	0.43	0.5	1	1	0	900	900	0
7/12/2024 21:32	14603	SWHI_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
7/12/2024 21:44	29402	BELT_T1	18	89	71	0.2	0.53	0.33	0	0	0	0	0	0	0	0
7/12/2024 21:44	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/12/2024 21:45	60801	BUCK_T1	175	356	181	0.63	0.64	0.01	0.01	0.02	0	0	0	0	0	0
7/12/2024 21:45	60803	BUCK_T1	83	150	67	0.59	0.59	0	0	0	0	0	0	0	0	0
7/12/2024 21:47	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 21:47	46203	DANV_T2	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
7/12/2024 21:48	29402	BELT_T1	80	86	6	0.51	0.52	0.01	0	0	0	0	0	0	0	0
7/12/2024 21:49	64904	MILL_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
7/12/2024 21:52	52404	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/12/2024 21:52	52403	GRPA_T2	3	7	4	0.57	0.47	-0.1	-0.37	-0.41	0	0	0	0	0	0
7/12/2024 21:52	25503	MADI_T1	8	27	19	0.14	0.17	0.03	-0.66	-0.66	0	0	0	0	0	0
7/12/2024 21:52	52402	GRPA_T2	4	3	-1	0.48	0.43	-0.05	-0.51	-0.57	0	0	0	0	0	0
7/12/2024 21:52	25501	MADI_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/12/2024 21:52	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 21:53	43201	MVIL_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
7/12/2024 21:53	43202	MVIL_T2	6	5	-1	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
7/12/2024 21:55	12006	HATF_T1	0	0	0	0	0	0	0.9	0.88	0	0	0	0	0	0
7/12/2024 21:56	40602	PIGR_T1	0	3	3	0	0.15	0.15	-3.13	-3.17	2	2	0	1200	1200	0
7/12/2024 21:57	64101	REFR_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
7/12/2024 21:57	65904	SAKR_T2	0	0	0	0	0	0	-1.54	-1.33	3	3	0	1500	1500	0
7/12/2024 21:57	65901	SAKR_T2	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
7/12/2024 21:58	65901	SAKR_T2	1	1	0	8.4	8.2	-0.2	-0.91	-1.01	2	2	0	1500	1500	0
7/12/2024 22:00	67401	WAKE_T2	82	167	85	0.26	0.33	0.07	-0.71	-0.67	0	0	0	0	0	0
7/12/2024 22:00	67402	WAKE_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 22:05	63501	HEID_TBK1-2	1	0	-1	0.3	0	-0.3	-0.01	-0.03	1	1	0	900	900	0
7/12/2024 22:06	63501	HEID_TBK1-2	1	0	-1	0.3	0	-0.3	-0.03	-0.07	1	1	0	900	900	0
7/12/2024 22:07	67505	WEWI_T1	0	0	0	0	0	0	0.46	0.42	1	1	0	900	900	0
7/12/2024 22:10	67002	STHI_T2	0	0	0	0	0	0	1.1	1.11	0	0	0	0	0	0
7/12/2024 22:10	67001	STHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/12/2024 22:11	14201	EALL_T1	0	0	0	0	0	0	0.92	0.91	0	0	0	0	0	0
7/12/2024 22:11	64101	REFR_T1	0	0	0	0	0	0	0.31	0.25	0	0	0	0	0	0
7/12/2024 22:18	67002	STHI_T2	0	0	0	0	0	0	1.1	1.11	0	0	0	0	0	0
7/12/2024 22:20	60801	BUCK_T1	356	392	36	0.64	0.65	0.01	0	0	0	0	0	0	0	0
7/12/2024 22:20	60803	BUCK_T1	148	165	17	0.59	0.58	-0.01	-0.35	-0.35	1	1	0	600	600	0
7/12/2024 22:20	65601	QVIL_T2	402	414	12	0.59	0.62	0.03	0	0	0	0	0	0	0	0
7/12/2024 22:20	65603	QVIL_T2	578	587	9	0.65	0.67	0.02	0.37	0.48	0	0	0	0	0	0
7/12/2024 22:20	65602	QVIL_T2	27	29	2	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
7/12/2024 22:20	65604	QVIL_T2	13	13	0	0.47	0.5	0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/12/2024 22:21	67002	STHI_T2	0	0	0	0	0	0	1.11	1.03	0	0	0	0	0	0
7/12/2024 22:21	60801	BUCK_T1	356	392	36	0.64	0.65	0.01	-0.01	-0.03	0	0	0	0	0	0
7/12/2024 22:21	60803	BUCK_T1	148	165	17	0.59	0.58	-0.01	0	0	0	0	0	0	0	0
7/12/2024 22:23	11104	EGYP_T1	0	2	2	0	0.1	0.1	0.48	0.43	0	0	0	0	0	0
7/12/2024 22:23	60802	BUCK_T2	334	334	0	0.86	0.91	0.05	0.36	0.35	0	0	0	0	0	0
7/12/2024 22:24	60801	BUCK_T1	356	392	36	0.64	0.65	0.01	-0.01	-0.03	0	0	0	0	0	0
7/12/2024 22:24	60803	BUCK_T1	148	165	17	0.59	0.58	-0.01	0	0	0	0	0	0	0	0
7/12/2024 22:26	47401	PENS_T1	1	0	-1	0.1	0	-0.1	0.13	0.12	0	0	0	0	0	0
7/12/2024 22:26	65602	QVIL_T2	27	29	2	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
7/12/2024 22:26	44201	POIN_T1	0	0	0	0	0	0	-2.02	-1.99	2	2	0	2100	2100	0
7/12/2024 22:26	65603	QVIL_T2	578	587	9	0.65	0.67	0.02	0	0	0	0	0	0	0	0
7/12/2024 22:26	65601	QVIL_T2	402	414	12	0.59	0.62	0.03	0.51	0.41	0	0	0	0	0	0
7/12/2024 22:26	65604	QVIL_T2	13	13	0	0.47	0.5	0.03	0	0	0	0	0	0	0	0
7/12/2024 22:27	61102	BERK_T5	0	0	0	0	0	0	0.65	0.59	1	1	0	300	300	0
7/12/2024 22:27	65601	QVIL_T2	402	414	12	0.59	0.62	0.03	0	0	0	0	0	0	0	0
7/12/2024 22:27	65604	QVIL_T2	13	13	0	0.47	0.5	0.03	0	0	0	0	0	0	0	0
7/12/2024 22:27	65603	QVIL_T2	578	587	9	0.65	0.67	0.02	0.48	0.46	0	0	0	0	0	0
7/12/2024 22:27	65901	SAKR_T2	1	1	0	7.5	8.2	0.7	-1.06	-1.05	2	2	0	1500	1500	0
7/12/2024 22:27	65602	QVIL_T2	27	29	2	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
7/12/2024 22:27	67002	STHI_T2	0	0	0	0	0	0	1.11	1.03	0	0	0	0	0	0
7/12/2024 22:28	67002	STHI_T2	0	0	0	0	0	0	1.11	1.03	0	0	0	0	0	0
7/12/2024 22:28	65001	NEFF_T2	0	0	0	0	0	0	-0.77	-0.75	1	1	0	1200	1200	0
7/12/2024 22:28	64902	MILL_T2	0	0	0	0	0	0	-0.23	-0.89	1	1	0	900	900	0
7/12/2024 22:28	50701	SMEC_T1	0	0	0	0	0	0	-0.25	-0.35	0	0	0	0	0	0
7/12/2024 22:28	66504	SMAN_T2	0	0	0	0	0	0	0.38	0.51	0	0	0	0	0	0
7/12/2024 22:28	65502	MOJO_T2	0	0	0	0	0	0	-1.45	-1.51	1	1	0	900	900	0
7/12/2024 22:29	61701	ELIZ_T1	1	1	0	4.4	4.8	0.4	0.91	0.92	0	0	0	0	0	0
7/12/2024 22:29	67402	WAKE_T2	1	1	0	0.1	0.1	0	0.61	0.59	0	0	0	0	0	0
7/12/2024 22:29	67401	WAKE_T2	148	112	-36	0.3	0.34	0.04	0	0	0	0	0	0	0	0
7/12/2024 22:29	60803	BUCK_T1	148	165	17	0.59	0.58	-0.01	-0.35	-0.37	1	1	0	600	600	0
7/12/2024 22:29	60801	BUCK_T1	356	392	36	0.64	0.65	0.01	0	0	0	0	0	0	0	0
7/12/2024 22:29	61102	BERK_T5	0	0	0	0	0	0	0.65	0.59	1	1	0	300	300	0
7/12/2024 22:29	67804	WLAN_T1	0	0	0	0	0	0	-0.68	-0.72	0	0	0	0	0	0
7/12/2024 22:29	67805	WLAN_T1	50	25	-25	0.18	0.11	-0.07	0	0	0	0	0	0	0	0
7/12/2024 22:29	63804	HEMP_T1	1	1	0	5.6	6	0.4	0	0	0	0	0	0	0	0
7/12/2024 22:29	67605	WARW_T1	0	1	1	0	0.2	0.2	-1.06	-1.09	0	0	0	0	0	0
7/12/2024 22:29	63802	HEMP_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
7/12/2024 22:30	64902	MILL_T2	0	0	0	0	0	0	-0.23	-0.89	1	1	0	900	900	0
7/12/2024 22:30	67805	WLAN_T1	25	0	-25	0.11	0	-0.11	0	0	0	0	0	0	0	0
7/12/2024 22:30	67804	WLAN_T1	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
7/12/2024 22:30	60801	BUCK_T1	391	198	-193	0.65	0.58	-0.07	-0.01	-0.03	0	0	0	0	0	0
7/12/2024 22:30	60803	BUCK_T1	165	50	-115	0.58	0.77	0.19	0	0	0	0	0	0	0	0
7/12/2024 22:30	60201	ATGL_T2	0	0	0	0	0	0	0.39	0.43	1	1	0	300	300	0
7/12/2024 22:31	13303	ORVI_T1	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
7/12/2024 22:31	63804	HEMP_T1	1	0	0	6	6.2	0.2	0	0	0	0	0	0	0	0
7/12/2024 22:31	63802	HEMP_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
7/12/2024 22:31	63304	GREE_T1	0	0	0	0	0	0	-1.4	-1.4	0	0	0	0	0	0
7/12/2024 22:31	29402	BELT_T1	69	72	3	0.4	0.45	0.05	0	0	0	0	0	0	0	0
7/12/2024 22:31	63305	GREE_T1	2	1	-1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 22:31	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/12/2024 22:31	67805	WLAN_T1	25	0	-25	0.11	0	-0.11	-1.12	-1.16	0	0	0	0	0	0
7/12/2024 22:31	60803	BUCK_T1	165	50	-115	0.58	0.77	0.19	0	0	0	0	0	0	0	0
7/12/2024 22:31	60801	BUCK_T1	391	198	-193	0.65	0.58	-0.07	-0.01	-0.03	0	0	0	0	0	0
7/12/2024 22:31	67803	WLAN_T1	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
7/12/2024 22:31	63401	HONY_T1	0	0	0	0	0	0	0.07	-0.02	3	3	0	1800	1800	0
7/12/2024 22:32	60801	BUCK_T1	391	198	-193	0.65	0.58	-0.07	-0.01	-0.03	0	0	0	0	0	0
7/12/2024 22:32	12606	MACA_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/12/2024 22:32	65603	QVIL_T2	586	438	-148	0.67	0.39	-0.28	0.48	0.46	0	0	0	0	0	0
7/12/2024 22:32	14404	SSLA_T1	2	2	0	2.45	2.65	0.2	-0.13	-0.12	1	1	0	900	900	0
7/12/2024 22:32	12601	MACA_T1	0	0	0	0	0	0	1.12	1.1	0	0	0	0	0	0
7/12/2024 22:32	65601	QVIL_T2	414	333	-81	0.61	0.38	-0.23	0.51	0.41	0	0	0	0	0	0
7/12/2024 22:32	59101	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 22:32	67603	WARW_T1	0	0	0	0	0	0	0.42	0.32	0	0	0	0	0	0
7/12/2024 22:32	40802	EXCH_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
7/12/2024 22:32	67002	STHI_T2	0	0	0	0	0	0	1.11	1.03	0	0	0	0	0	0
7/12/2024 22:32	65604	QVIL_T2	13	4	-9	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/12/2024 22:32	65602	QVIL_T2	28	13	-15	0.44	0.28	-0.16	0	0	0	0	0	0	0	0
7/12/2024 22:32	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 22:32	67605	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/12/2024 22:32	60803	BUCK_T1	165	50	-115	0.58	0.77	0.19	0	0	0	0	0	0	0	0
7/12/2024 22:32	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/12/2024 22:32	23202	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
7/12/2024 22:33	20401	ASHF_T2	0	0	0	0	0	0	0.11	0.17	0	0	0	0	0	0
7/12/2024 22:33	47001	HUGH_T2	28	3	-25	1.08	8	6.92	-1.22	-1.3	1	1	0	900	900	0
7/12/2024 22:33	52004	LING_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
7/12/2024 22:33	43301	WATS_T2	1	0	-1	0.2	0	-0.2	-0.27	-0.3	1	1	0	900	900	0
7/12/2024 22:33	65401	MARI_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
7/12/2024 22:33	57401	SPAN_T1	0	0	0	0	0	0	-0.63	-0.67	1	1	0	600	600	0
7/12/2024 22:33	43304	WATS_T2	0	7	7	0	0.23	0.23	0	0	0	0	0	0	0	0
7/12/2024 22:33	65402	MARI_T1	27	1	-26	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
7/12/2024 22:33	46001	BERW_T1	0	0	0	0	0	0	0.91	0.87	0	0	0	0	0	0
7/12/2024 22:34	67402	WAKE_T2	1	0	-1	0.1	0	-0.1	0.61	0.59	0	0	0	0	0	0
7/12/2024 22:34	67401	WAKE_T2	112	16	-96	0.34	0.14	-0.2	0	0	0	0	0	0	0	0
7/12/2024 22:34	67001	STHI_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
7/12/2024 22:34	61102	BERK_T5	0	0	0	0	0	0	0.65	0.59	1	1	0	300	300	0
7/12/2024 22:34	63803	HEMP_T1	0	0	0	0	0	0	0.78	0.81	0	0	0	0	0	0
7/12/2024 22:34	60801	BUCK_T1	391	198	-193	0.65	0.58	-0.07	-0.01	-0.03	0	0	0	0	0	0
7/12/2024 22:34	67203	TEHI_T1	0	0	0	0	0	0	1.97	2.04	0	0	0	0	0	0
7/12/2024 22:34	29402	BELT_T1	69	72	3	0.4	0.45	0.05	0	0	0	0	0	0	0	0
7/12/2024 22:34	63804	HEMP_T1	1	1	0	6	6.2	0.2	0	0	0	0	0	0	0	0
7/12/2024 22:34	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/12/2024 22:34	67201	TEHI_T1	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
7/12/2024 22:34	60803	BUCK_T1	165	50	-115	0.58	0.77	0.19	0	0	0	0	0	0	0	0
7/12/2024 22:34	66504	SMAN_T2	0	0	0	0	0	0	0.19	0.25	0	0	0	0	0	0
7/12/2024 22:34	57401	SPAN_T1	0	0	0	0	0	0	-0.63	-0.67	1	1	0	600	600	0
7/12/2024 22:34	44301	BEAV_T2	0	1	1	0	0.2	0.2	-0.53	-0.57	1	1	0	600	600	0
7/12/2024 22:34	11104	EGYP_T1	0	2	2	0	0.1	0.1	0.48	0.43	0	0	0	0	0	0
7/12/2024 22:35	61304	EARL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 22:35	46002	BERW_T2	0	0	0	0	0	0	-1.5	-1.53	1	1	0	900	900	0
7/12/2024 22:35	62102	ELAN_T1	0	0	0	0	0	0	1.28	1.25	0	0	0	0	0	0
7/12/2024 22:35	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/12/2024 22:35	29402	BELT_T1	69	72	3	0.4	0.45	0.05	0	0	0	0	0	0	0	0
7/12/2024 22:35	61301	EARL_T1	0	0	0	0	0	0	-1.27	-1.36	2	2	0	1800	1800	0
7/12/2024 22:35	60801	BUCK_T1	391	198	-193	0.65	0.58	-0.07	0	0	0	0	0	0	0	0
7/12/2024 22:35	67804	WLAN_T1	0	0	0	0	0	0	-0.68	-0.72	0	0	0	0	0	0
7/12/2024 22:35	60803	BUCK_T1	165	50	-115	0.58	0.77	0.19	-0.35	-0.37	1	1	0	600	600	0
7/12/2024 22:35	57401	SPAN_T1	0	0	0	0	0	0	-0.63	-0.67	1	1	0	600	600	0
7/12/2024 22:35	64902	MILL_T2	0	0	0	0	0	0	-0.23	-0.89	1	1	0	900	900	0
7/12/2024 22:35	67805	WLAN_T1	25	0	-25	0.11	0	-0.11	0	0	0	0	0	0	0	0
7/12/2024 22:35	63401	HONY_T1	0	0	0	0	0	0	0.02	-0.01	1	1	0	600	600	0
7/12/2024 22:36	67201	TEHI_T1	3	3	0	0.13	0.13	0	-0.21	-0.25	0	0	0	0	0	0
7/12/2024 22:36	67605	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/12/2024 22:36	13503	MCMI_T2	90	182	92	0.33	0.35	0.02	-0.73	-0.73	0	0	0	0	0	0
7/12/2024 22:36	47401	PENS_T1	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
7/12/2024 22:36	66703	STRA_T1	5	5	0	0.54	0.48	-0.06	0.09	0.03	0	0	0	0	0	0
7/12/2024 22:36	65601	QVIL_T2	414	333	-81	0.61	0.38	-0.23	0	0	0	0	0	0	0	0
7/12/2024 22:36	65602	QVIL_T2	28	13	-15	0.44	0.28	-0.16	0	0	0	0	0	0	0	0
7/12/2024 22:36	67401	WAKE_T2	112	16	-96	0.34	0.14	-0.2	0	0	0	0	0	0	0	0
7/12/2024 22:36	67603	WARW_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
7/12/2024 22:36	67402	WAKE_T2	1	0	-1	0.1	0	-0.1	0.59	0.58	0	0	0	0	0	0
7/12/2024 22:36	65603	QVIL_T2	586	438	-148	0.67	0.39	-0.28	0.46	0.43	0	0	0	0	0	0
7/12/2024 22:36	56802	BENV_T2	0	0	0	0	0	0	-0.36	-0.42	0	0	0	0	0	0
7/12/2024 22:36	65604	QVIL_T2	13	4	-9	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/12/2024 22:36	14601	SWHI_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
7/12/2024 22:36	23401	HONE_T2	0	1	1	0	0	0	-0.23	-0.32	0	0	0	0	0	0
7/12/2024 22:37	65902	SAKR_T2	0	0	0	0	0	0	-0.5	-0.51	1	1	0	300	300	0
7/12/2024 22:37	20403	ASHF_T2	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
7/12/2024 22:37	13503	MCMI_T2	90	182	92	0.33	0.35	0.02	-1.46	-1.52	0	0	0	0	0	0
7/12/2024 22:37	64101	REFR_T1	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
7/12/2024 22:37	52004	LING_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
7/12/2024 22:37	55002	NEWP_T1	0	0	0	0	0	0	-0.09	-0.13	0	0	0	0	0	0
7/12/2024 22:37	65901	SAKR_T2	1	1	0	7.7	8.3	0.6	0	0	0	0	0	0	0	0
7/12/2024 22:37	67605	WARW_T1	0	1	1	0	0.2	0.2	-1.09	-1.11	0	0	0	0	0	0
7/12/2024 22:37	67002	STHI_T2	0	0	0	0	0	0	1.03	1.05	0	0	0	0	0	0
7/12/2024 22:37	63305	GREE_T1	2	1	-1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 22:37	16402	MOPO_T1	0	0	0	0	0	0	0.15	0.46	0	0	0	0	0	0
7/12/2024 22:37	63304	GREE_T1	0	0	0	0	0	0	-1.4	-1.42	0	0	0	0	0	0
7/12/2024 22:37	47401	PENS_T1	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
7/12/2024 22:38	47401	PENS_T1	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
7/12/2024 22:38	24902	WHHA_T1	1	1	0	1	0.7	-0.3	0.88	0.88	0	0	0	0	0	0
7/12/2024 22:38	56803	BENV_T1	0	1	1	0	0	0	0.35	0.32	0	0	0	0	0	0
7/12/2024 22:38	59101	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 22:38	64801	MONE_T2	21	0	-21	0.19	0	-0.19	0	0	0	0	0	0	0	0
7/12/2024 22:38	67002	STHI_T2	0	0	0	0	0	0	1.03	1.05	0	0	0	0	0	0
7/12/2024 22:38	64101	REFR_T1	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
7/12/2024 22:38	64802	MONE_T2	16	0	-16	0.16	0	-0.16	0.36	0.53	0	0	0	0	0	0
7/12/2024 22:38	57401	SPAN_T1	0	0	0	0	0	0	-0.67	-0.77	1	1	0	600	600	0
7/12/2024 22:38	67805	WLAN_T1	25	0	-25	0.11	0	-0.11	-1.16	-1.18	0	0	0	0	0	0
7/12/2024 22:38	56801	BENV_T1	8	7	-1	0.55	0.56	0.01	-0.52	-0.55	1	1	0	600	600	0
7/12/2024 22:38	48301	ORWI_T1	2	2	0	5	5.3	0.3	0.23	0.17	0	0	0	0	0	0
7/12/2024 22:39	67605	WARW_T1	0	1	1	0	0.2	0.2	-1.09	-1.11	0	0	0	0	0	0
7/12/2024 22:39	55002	NEWP_T1	0	0	0	0	0	0	-0.09	-0.13	0	0	0	0	0	0
7/12/2024 22:39	40802	EXCH_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
7/12/2024 22:39	46203	DANV_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
7/12/2024 22:39	52403	GRPA_T2	2	2	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
7/12/2024 22:39	45802	HEGI_T2	40	40	0	0.66	0.74	0.08	0.35	0.06	1	1	0	300	300	0
7/12/2024 22:39	52402	GRPA_T2	2	1	-1	0.2	0.3	0.1	-0.6	-0.67	0	0	0	0	0	0
7/12/2024 22:39	46206	DANV_T2	0	0	0	0	0	0	0.84	0.75	2	2	0	2100	2100	0
7/12/2024 22:39	47001	HUGH_T2	28	3	-25	1.08	8	6.92	-1.3	-1.36	1	1	0	900	900	0
7/12/2024 22:39	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/12/2024 22:39	64101	REFR_T1	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
7/12/2024 22:39	44601	SALE_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
7/12/2024 22:39	29402	BELT_T1	69	72	3	0.4	0.45	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/12/2024 22:39	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	-0.06	-0.09	0	0	0	0	0	0
7/12/2024 22:39	20403	ASHF_T2	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
7/12/2024 22:40	13503	MCMI_T2	90	182	92	0.33	0.35	0.02	-0.73	-0.76	0	0	0	0	0	0
7/12/2024 22:40	48301	ORWI_T1	2	2	0	5	5.3	0.3	0.23	0.17	0	0	0	0	0	0
7/12/2024 22:40	60502	NMAN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
7/12/2024 22:40	60501	NMAN_T2	3	3	0	4.57	4.3	-0.27	0	0	0	0	0	0	0	0
7/12/2024 22:40	44601	SALE_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
7/12/2024 22:40	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/12/2024 22:40	52403	GRPA_T2	2	2	0	0.85	0.7	-0.15	-0.45	-0.5	0	0	0	0	0	0
7/12/2024 22:40	52402	GRPA_T2	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/12/2024 22:40	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 22:40	47802	MOCA_T2	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
7/12/2024 22:40	45602	WOOL_T1	122	60	-62	0.77	0.7	-0.07	0.5	0.45	0	0	0	0	0	0
7/12/2024 22:40	56802	BENV_T2	0	0	0	0	0	0	-0.83	-2.18	0	0	0	0	0	0
7/12/2024 22:40	56501	ROCK_T2	3	11	8	0.5	0.24	-0.26	-1.41	-1.47	0	0	0	0	0	0
7/12/2024 22:41	43304	WATS_T2	0	7	7	0	0.23	0.23	-0.32	-0.38	0	0	0	0	0	0
7/12/2024 22:41	65502	MOID_T2	0	0	0	0	0	0	-1.51	-1.48	1	1	0	900	900	0
7/12/2024 22:41	47401	PENS_T1	0	0	0	0	0	0	0.35	0.46	0	0	0	0	0	0
7/12/2024 22:41	44801	EDAN_T2	5	4	-1	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
7/12/2024 22:41	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	-0.06	-0.09	0	0	0	0	0	0
7/12/2024 22:41	40101	HUNT_T2	1	0	-1	0.7	0	-0.7	-0.47	-0.5	0	0	0	0	0	0
7/12/2024 22:41	52402	GRPA_T2	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/12/2024 22:41	52403	GRPA_T2	2	2	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
7/12/2024 22:41	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/12/2024 22:41	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 22:41	40602	PIGR_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
7/12/2024 22:41	59101	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 22:41	45602	WOOL_T1	122	60	-62	0.77	0.7	-0.07	0.5	0.45	0	0	0	0	0	0
7/12/2024 22:41	20403	ASHF_T2	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
7/12/2024 22:41	25402	LAHA_T2	0	0	0	0	0	0	-0.61	-0.65	0	0	0	0	0	0
7/12/2024 22:41	57403	SPAN_T1	0	0	0	0	0	0	0.26	0.2	0	0	0	0	0	0
7/12/2024 22:41	44802	EDAN_T2	0	0	0	0	0	0	-1.34	-1.55	0	0	0	0	0	0
7/12/2024 22:41	40603	PIGR_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
7/12/2024 22:42	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 22:42	40101	HUNT_T2	1	0	-1	0.7	0	-0.7	-0.94	-1	0	0	0	0	0	0
7/12/2024 22:42	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 22:42	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	-0.06	-0.09	0	0	0	0	0	0
7/12/2024 22:42	42601	TUSC_T1	0	1	1	0	0	0	-0.21	-0.23	2	2	0	1800	1800	0
7/12/2024 22:42	60502	NMAN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
7/12/2024 22:42	20403	ASHF_T2	0	0	0	0	0	0	1.2	1.16	0	0	0	0	0	0
7/12/2024 22:42	40602	PIGR_T1	1	2	1	0.1	0.1	0	-1.64	-1.63	1	1	0	600	600	0
7/12/2024 22:42	52403	GRPA_T2	2	2	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
7/12/2024 22:42	52402	GRPA_T2	2	1	-1	0.2	0.3	0.1	-0.6	-0.67	0	0	0	0	0	0
7/12/2024 22:42	24902	WHHA_T1	1	1	0	1	0.7	-0.3	0.88	0.88	0	0	0	0	0	0
7/12/2024 22:42	42701	AUGU_T1	1	0	-1	0.3	0	-0.3	0	0	2	2	0	1800	1800	0
7/12/2024 22:42	46206	DANV_T2	0	0	0	0	0	0	0.84	0.75	2	2	0	2100	2100	0
7/12/2024 22:42	21206	ECAR_T2	1	1	0	8	8.2	0.2	0.28	0.29	0	0	0	0	0	0
7/12/2024 22:42	56801	BENV_T1	8	7	-1	0.55	0.56	0.01	-0.52	-0.55	1	1	0	600	600	0
7/12/2024 22:42	60501	NMAN_T2	3	3	0	4.57	4.3	-0.27	0	0	0	0	0	0	0	0
7/12/2024 22:43	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/12/2024 22:43	50701	SMEC_T1	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
7/12/2024 22:43	43304	WATS_T2	0	7	7	0	0.23	0.23	-0.96	-1.13	0	0	0	0	0	0
7/12/2024 22:43	44801	EDAN_T2	5	4	-1	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
7/12/2024 22:43	47401	PENS_T1	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
7/12/2024 22:43	42201	SHEN_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
7/12/2024 22:43	44802	EDAN_T2	0	0	0	0	0	0	-0.9	-1.03	0	0	0	0	0	0
7/12/2024 22:44	54504	ENOL_T2	0	0	0	0	0	0	-0.8	-0.8	1	1	0	600	600	0
7/12/2024 22:44	56801	BENV_T1	8	7	-1	0.55	0.56	0.01	-0.52	-0.55	1	1	0	600	600	0
7/12/2024 22:44	53501	EVIL_T2	1	2	1	0.4	0.5	0.1	-1.38	-1.3	1	1	0	900	900	0
7/12/2024 22:44	58003	WCAR_T1	1	1	0	1.1	1.2	0.1	0.94	0.91	0	0	0	0	0	0
7/12/2024 22:44	44901	SCOT_T2	6	2	-4	0.25	0.3	0.05	0	0	0	0	0	0	0	0
7/12/2024 22:44	52002	LING_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
7/12/2024 22:44	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.03	-0.13	1	1	0	900	900	0
7/12/2024 22:44	47401	PENS_T1	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
7/12/2024 22:44	58001	WCAR_T1	4	4	0	0.73	0.88	0.15	0	0	0	0	0	0	0	0
7/12/2024 22:44	44801	EDAN_T2	5	4	-1	0.14	0.13	-0.01	-2.79	-2.76	0	0	0	0	0	0
7/12/2024 22:44	20603	GRWO_T2	24	26	2	0.19	0.22	0.03	-0.47	-0.47	1	1	0	900	900	0
7/12/2024 22:44	43304	WATS_T2	0	7	7	0	0.23	0.23	-0.32	-0.38	0	0	0	0	0	0
7/12/2024 22:44	44301	BEAV_T2	0	1	1	0	0.2	0.2	-0.57	-0.59	1	1	0	600	600	0
7/12/2024 22:44	40603	PIGR_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
7/12/2024 22:44	13503	MCMI_T2	90	182	92	0.33	0.35	0.02	-0.73	-0.76	0	0	0	0	0	0
7/12/2024 22:44	43301	WATS_T2	1	0	-1	0.2	0	-0.2	-0.3	-0.32	1	1	0	900	900	0
7/12/2024 22:44	44902	SCOT_T2	297	265	-32	0.64	0.61	-0.03	-0.64	-0.61	0	0	0	0	0	0
7/12/2024 22:44	40602	PIGR_T1	1	2	1	0.1	0.1	0	-1.64	-1.63	1	1	0	600	600	0
7/12/2024 22:44	56803	BENV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 22:45	20603	GRWO_T2	22	25	3	0.19	0.22	0.03	0	0	0	0	0	0	0	0
7/12/2024 22:45	42201	SHEN_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
7/12/2024 22:45	55002	NEWP_T1	0	1	1	0	0	0	-0.09	-0.13	0	0	0	0	0	0
7/12/2024 22:45	44301	BEAV_T2	1	0	-1	1.3	0	-1.3	-0.57	-0.59	1	1	0	600	600	0
7/12/2024 22:45	44201	POIN_T1	0	2	2	0	0.1	0.1	-1.99	-1.94	2	2	0	2100	2100	0
7/12/2024 22:45	43304	WATS_T2	5	5	0	0.28	0	-0.28	-0.32	-0.38	0	0	0	0	0	0
7/12/2024 22:45	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 22:45	46206	DANV_T2	0	0	0	0	0	0	0.84	0.75	2	2	0	2100	2100	0
7/12/2024 22:45	46001	BERW_T1	0	0	0	0	0	0	0.87	0.91	0	0	0	0	0	0
7/12/2024 22:45	20601	GRWO_T2	0	0	0	0	0	0	-0.02	-0.07	0	0	0	0	0	0
7/12/2024 22:45	46004	BERW_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
7/12/2024 22:45	45802	HEGI_T2	32	43	11	0.63	1	0.37	0.35	0.06	1	1	0	300	300	0
7/12/2024 22:45	40101	HUNT_T2	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
7/12/2024 22:45	46803	HEPB_T2	0	0	0	0	0	0	0.68	0.59	0	0	0	0	0	0
7/12/2024 22:45	58003	WCAR_T1	1	1	0	1	1.3	0.3	0.94	0.91	0	0	0	0	0	0
7/12/2024 22:45	43802	SWIL_T1	0	0	0	0	0	0	0.33	0.27	1	1	0	600	600	0
7/12/2024 22:45	43801	SWIL_T1	2	2	0	3.2	3.15	-0.05	0	0	0	0	0	0	0	0
7/12/2024 22:45	46203	DANV_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
7/12/2024 22:45	58001	WCAR_T1	4	4	0	0.58	0.88	0.3	0	0	0	0	0	0	0	0
7/12/2024 22:45	43202	MVIL_T2	28	43	15	0.21	0.27	0.06	-0.58	-0.54	0	0	0	0	0	0
7/12/2024 22:45	46801	HEPB_T2	2	2	0	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
7/12/2024 22:46	57403	SPAN_T1	0	0	0	0	0	0	0.26	0.2	0	0	0	0	0	0
7/12/2024 22:46	20603	GRWO_T2	22	25	3	0.19	0.22	0.03	0	0	0	0	0	0	0	0
7/12/2024 22:46	58401	MORO_T1	0	0	0	0	0	0	-1.3	-1.39	2	2	0	1200	1200	0
7/12/2024 22:46	56501	ROCK_T2	2	11	9	0.8	0.22	-0.58	-2.82	-2.95	0	0	0	0	0	0
7/12/2024 22:46	46203	DANV_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
7/12/2024 22:46	40802	EXCH_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
7/12/2024 22:46	40602	PIGR_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 22:46	21203	ECAR_T1	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
7/12/2024 22:46	20601	GRWO_T2	0	0	0	0	0	0	-0.02	-0.07	0	0	0	0	0	0
7/12/2024 22:46	46206	DANV_T2	0	0	0	0	0	0	0.84	0.75	2	2	0	2100	2100	0
7/12/2024 22:46	40603	PIGR_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
7/12/2024 22:47	55002	NEWP_T1	0	1	1	0	0	0	-0.09	-0.13	0	0	0	0	0	0
7/12/2024 22:47	47401	PENS_T1	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
7/12/2024 22:47	42201	SHEN_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
7/12/2024 22:47	43304	WATS_T2	5	5	0	0.28	0	-0.28	-0.64	-0.75	0	0	0	0	0	0
7/12/2024 22:47	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 22:47	46206	DANV_T2	0	0	0	0	0	0	0.84	0.75	2	2	0	2100	2100	0
7/12/2024 22:47	58001	WCAR_T1	4	4	0	0.58	0.88	0.3	0	0	0	0	0	0	0	0
7/12/2024 22:47	46203	DANV_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
7/12/2024 22:47	41901	REED_T1	9	10	1	0.41	0.66	0.25	0	0	0	0	0	0	0	0
7/12/2024 22:47	41902	REED_T1	0	0	0	0	0	0	0.36	0.37	1	1	0	900	900	0
7/12/2024 22:47	58003	WCAR_T1	1	1	0	1	1.3	0.3	0.94	0.91	0	0	0	0	0	0
7/12/2024 22:47	44901	SCOT_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/12/2024 22:47	44801	EDAN_T2	2	3	1	0.1	0.13	0.03	-1.4	-1.38	0	0	0	0	0	0
7/12/2024 22:47	44902	SCOT_T2	241	263	22	0.48	0.62	0.14	-1.28	-1.23	0	0	0	0	0	0
7/12/2024 22:47	44802	EDAN_T2	0	0	0	0	0	0	-0.45	-0.52	0	0	0	0	0	0
7/12/2024 22:48	40101	HUNT_T2	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
7/12/2024 22:48	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 22:48	52402	GRPA_T2	0	1	1	0	0.4	0.4	-0.6	-0.67	0	0	0	0	0	0
7/12/2024 22:48	58402	MORO_T1	0	0	0	0	0	0	-0.23	-0.2	2	2	0	1500	1500	0
7/12/2024 22:48	59101	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 22:48	52403	GRPA_T2	2	3	1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/12/2024 22:48	41901	REED_T1	9	10	1	0.41	0.66	0.25	0	0	0	0	0	0	0	0
7/12/2024 22:48	44201	POIN_T1	0	2	2	0	0.1	0.1	-1.99	-1.94	2	2	0	2100	2100	0
7/12/2024 22:48	40801	EXCH_T2	0	0	0	0	0	0	-0.14	-0.16	1	1	0	1200	1200	0
7/12/2024 22:48	41902	REED_T1	0	0	0	0	0	0	0.36	0.37	1	1	0	900	900	0
7/12/2024 22:49	43304	WATS_T2	5	5	0	0.28	0	-0.28	-0.32	-0.38	0	0	0	0	0	0
7/12/2024 22:49	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 22:50	47401	PENS_T1	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
7/12/2024 22:50	40101	HUNT_T2	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
7/12/2024 22:51	41901	REED_T1	9	10	1	0.41	0.66	0.25	0	0	0	0	0	0	0	0
7/12/2024 22:51	41902	REED_T1	0	0	0	0	0	0	0.36	0.37	1	1	0	900	900	0
7/12/2024 22:51	59101	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 22:51	43304	WATS_T2	5	5	0	0.28	0	-0.28	-0.38	-0.4	0	0	0	0	0	0
7/12/2024 22:51	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/12/2024 22:53	45602	WOOL_T1	60	58	-2	0.7	0.65	-0.05	0.45	0.41	0	0	0	0	0	0
7/12/2024 22:53	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2024 23:00	67605	WARW_T1	0	5	5	0	0.1	0.1	-1.11	-0.98	0	0	0	0	0	0
7/12/2024 23:00	46801	HEPB_T2	2	2	0	0.45	0.7	0.25	-0.01	-0.06	0	0	0	0	0	0
7/12/2024 23:01	67605	WARW_T1	0	5	5	0	0.1	0.1	-1.11	-0.98	0	0	0	0	0	0
7/12/2024 23:08	57401	SPAN_T1	0	0	0	0	0	0	-0.71	-0.81	1	1	0	600	600	0
7/12/2024 23:17	64904	MILL_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
7/12/2024 23:29	40101	HUNT_T2	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
7/13/2024 0:01	61304	EARL_T1	19	9	-10	0.13	0.11	-0.02	0	0	0	0	0	0	0	0
7/13/2024 0:01	61301	EARL_T1	0	0	0	0	0	0	-1.36	-1.36	2	2	0	1800	1800	0
7/13/2024 0:02	61304	EARL_T1	19	9	-10	0.13	0.11	-0.02	0	0	0	0	0	0	0	0
7/13/2024 0:02	61301	EARL_T1	0	0	0	0	0	0	-1.36	-1.36	2	2	0	1800	1800	0
7/13/2024 0:29	67605	WARW_T1	3	10	7	0.1	0.28	0.18	-0.97	-1	0	0	0	0	0	0
7/13/2024 0:30	67605	WARW_T1	4	17	13	0.18	0.29	0.11	-0.97	-1	0	0	0	0	0	0
7/13/2024 1:37	55101	WERT_T1	0	0	0	0	0	0	-1.18	-1.16	2	2	0	1500	1500	0
7/13/2024 1:37	55103	WERT_T1	1	1	0	6.2	5.8	-0.4	0	0	0	0	0	0	0	0
7/13/2024 1:52	55103	WERT_T1	1	1	0	5.8	6.8	1	0	0	0	0	0	0	0	0
7/13/2024 1:52	55101	WERT_T1	0	0	0	0	0	0	-1.16	-1.14	2	2	0	1500	1500	0
7/13/2024 1:59	55101	WERT_T1	0	0	0	0	0	0	-1.16	-1.14	2	2	0	1500	1500	0
7/13/2024 1:59	55103	WERT_T1	1	1	0	5.8	6.8	1	0	0	0	0	0	0	0	0
7/13/2024 2:00	55103	WERT_T1	1	1	0	7.8	6.8	-1	0	0	0	0	0	0	0	0
7/13/2024 2:00	55101	WERT_T1	0	0	0	0	0	0	-1.16	-1.14	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/13/2024 5:05	22701	MINO_T1	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
7/13/2024 5:11	55101	WERT_T1	0	0	0	0	0	0	-1.17	-1.16	2	2	0	1500	1500	0
7/13/2024 5:11	55103	WERT_T1	1	1	0	7.2	8.1	0.9	0	0	0	0	0	0	0	0
7/13/2024 6:53	56501	ROCK_T2	1	0	-1	0.2	0	-0.2	-0.43	-0.41	0	0	0	0	0	0
7/13/2024 7:06	24902	WHHA_T1	0	2	2	0	0.7	0.7	0.79	0.8	0	0	0	0	0	0
7/13/2024 7:10	24902	WHHA_T1	0	2	2	0	0.7	0.7	0.8	0.83	0	0	0	0	0	0
7/13/2024 7:15	53803	MBRG_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
7/13/2024 7:20	56504	ROCK_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
7/13/2024 7:20	56501	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 7:30	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 7:31	63305	GREE_T1	0	0	0	0	0	0	-2.03	-1.95	1	1	0	900	900	0
7/13/2024 7:33	13501	MCMI_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
7/13/2024 7:35	56504	ROCK_T2	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
7/13/2024 7:35	56501	ROCK_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/13/2024 7:37	60201	ATGL_T2	0	0	0	0	0	0	0.55	0.61	0	0	0	0	0	0
7/13/2024 7:38	65603	QVIL_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
7/13/2024 7:39	29402	BELT_T1	20	86	66	0.68	0.72	0.04	0	0	0	0	0	0	0	0
7/13/2024 7:48	64101	REFR_T1	0	0	0	0	0	0	0.27	0.32	0	0	0	0	0	0
7/13/2024 7:52	67605	WARW_T1	0	0	0	0	0	0	-0.91	-0.88	0	0	0	0	0	0
7/13/2024 7:58	61302	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 7:58	61306	EARL_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
7/13/2024 7:58	61304	EARL_T1	35	31	-4	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
7/13/2024 8:00	63305	GREE_T1	0	0	0	0	0	0	-1.98	-2.03	1	1	0	900	900	0
7/13/2024 8:13	40101	HUNT_T2	0	1	1	0	0	0	-0.57	-0.52	0	0	0	0	0	0
7/13/2024 8:14	67605	WARW_T1	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
7/13/2024 8:15	67605	WARW_T1	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
7/13/2024 8:17	64203	KINZ_T1	0	0	0	0	0	0	0.52	0.58	2	2	0	900	900	0
7/13/2024 8:17	64204	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/13/2024 8:17	64201	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/13/2024 8:18	58402	MORO_T1	0	1	1	0	0	0	-0.2	-0.18	2	2	0	1500	1500	0
7/13/2024 8:23	56801	BENV_T1	4	4	0	0.73	0.53	-0.2	0	0	0	0	0	0	0	0
7/13/2024 8:23	56803	BENV_T1	1	2	1	2.6	1.35	-1.25	0.85	0.76	0	0	0	0	0	0
7/13/2024 8:25	21203	ECAR_T1	0	0	0	0	0	0	0.7	0.69	0	0	0	0	0	0
7/13/2024 8:37	52403	GRPA_T2	2	6	4	0.4	0	-0.4	-0.6	-0.58	0	0	0	0	0	0
7/13/2024 8:38	20403	ASHF_T2	1	0	-1	0.3	0	-0.3	0.62	0.6	0	0	0	0	0	0
7/13/2024 8:38	20401	ASHF_T2	1	4	3	0.7	1.05	0.35	0	0	0	0	0	0	0	0
7/13/2024 8:40	29402	BELT_T1	11	48	37	0.99	0.72	-0.27	0	0	0	0	0	0	0	0
7/13/2024 8:41	20403	ASHF_T2	1	0	-1	0.3	0	-0.3	0.62	0.6	0	0	0	0	0	0
7/13/2024 8:41	20401	ASHF_T2	1	4	3	0.7	1.05	0.35	0	0	0	0	0	0	0	0
7/13/2024 8:41	29402	BELT_T1	11	48	37	0.99	0.72	-0.27	0	0	0	0	0	0	0	0
7/13/2024 8:47	13503	MCMI_T2	159	38	-121	0.24	0.2	-0.04	-0.79	-0.78	0	0	0	0	0	0
7/13/2024 8:54	59101	WALK_T2	1	1	0	1.7	1	-0.7	-0.17	-0.21	0	0	0	0	0	0
7/13/2024 8:55	60201	ATGL_T2	0	0	0	0	0	0	0.73	0.76	0	0	0	0	0	0
7/13/2024 8:55	67605	WARW_T1	0	0	0	0	0	0	-1.14	-1.12	0	0	0	0	0	0
7/13/2024 8:56	67605	WARW_T1	0	0	0	0	0	0	-1.14	-1.12	0	0	0	0	0	0
7/13/2024 8:58	60801	BUCK_T1	0	1	1	0	0.1	0.1	-0.65	-0.62	1	1	0	600	600	0
7/13/2024 9:01	13503	MCMI_T2	5	38	33	0.36	0.2	-0.16	-0.78	-0.74	0	0	0	0	0	0
7/13/2024 9:02	13503	MCMI_T2	5	38	33	0.36	0.2	-0.16	-0.78	-0.74	0	0	0	0	0	0
7/13/2024 9:03	52403	GRPA_T2	5	9	4	0.58	0.77	0.19	-0.58	-0.56	0	0	0	0	0	0
7/13/2024 9:03	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 9:06	24902	WHHA_T1	7	12	5	0.64	0.61	-0.03	0.85	0.9	0	0	0	0	0	0
7/13/2024 9:06	24901	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 9:09	44302	BEAV_T2	1	1	0	0.5	0.6	0.1	1.34	1.39	0	0	0	0	0	0
7/13/2024 9:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/13/2024 9:13	29402	BELT_T1	47	101	54	0.51	1.1	0.59	0	0	0	0	0	0	0	0
7/13/2024 9:17	22602	KIMB_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
7/13/2024 9:20	56501	ROCK_T2	1	1	0	0.2	0.7	0.5	-3.07	-2.97	0	0	0	0	0	0
7/13/2024 9:21	56501	ROCK_T2	1	1	0	0.2	0.7	0.5	-3.07	-2.97	0	0	0	0	0	0
7/13/2024 9:22	56501	ROCK_T2	1	1	0	0.2	0.7	0.5	-1.48	-1.46	0	0	0	0	0	0
7/13/2024 9:23	20401	ASHF_T2	2	5	3	0.9	0.73	-0.17	0	0	0	0	0	0	0	0
7/13/2024 9:23	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 9:23	56501	ROCK_T2	1	1	0	0.2	0.7	0.5	-1.48	-1.46	0	0	0	0	0	0
7/13/2024 9:23	20403	ASHF_T2	0	0	0	0	0	0	0.71	0.82	0	0	0	0	0	0
7/13/2024 9:25	20403	ASHF_T2	0	0	0	0	0	0	0.71	0.82	0	0	0	0	0	0
7/13/2024 9:25	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 9:25	20401	ASHF_T2	2	5	3	0.9	0.73	-0.17	0	0	0	0	0	0	0	0
7/13/2024 9:33	44203	POIN_T2	2	10	8	0.65	0.57	-0.08	0.54	0.61	1	1	0	900	900	0
7/13/2024 9:33	65205	PRIN_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
7/13/2024 9:36	67605	WARW_T1	0	0	0	0	0	0	-1.06	-1.02	0	0	0	0	0	0
7/13/2024 9:37	24901	WHHA_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/13/2024 9:37	24902	WHHA_T1	11	20	9	0.65	0.52	-0.13	0.9	0.94	0	0	0	0	0	0
7/13/2024 9:37	67605	WARW_T1	0	0	0	0	0	0	-1.02	-0.98	0	0	0	0	0	0
7/13/2024 9:39	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/13/2024 9:40	46206	DANV_T2	7	20	13	0.81	0.71	-0.1	0	0	0	0	0	0	0	0
7/13/2024 9:40	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 9:40	46203	DANV_T2	0	0	0	0	0	0	-1.63	-1.48	0	0	0	0	0	0
7/13/2024 9:41	46206	DANV_T2	7	20	13	0.81	0.71	-0.1	0	0	0	0	0	0	0	0
7/13/2024 9:41	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 9:41	46203	DANV_T2	0	0	0	0	0	0	-1.63	-1.48	0	0	0	0	0	0
7/13/2024 9:41	22001	BOHE_T1	20	6	-14	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
7/13/2024 9:41	22003	BOHE_T1	236	205	-31	0.34	0.33	-0.01	-0.05	-0.04	0	0	0	0	0	0
7/13/2024 9:41	22002	BOHE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/13/2024 9:43	22903	HARW_T1	1	8	7	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/13/2024 9:43	45802	HEGI_T2	2	14	12	0.1	0.39	0.29	-0.92	-0.7	4	4	0	2400	2400	0
7/13/2024 9:43	46203	DANV_T2	0	0	0	0	0	0	1.63	1.48	0	0	0	0	0	0
7/13/2024 9:43	46206	DANV_T2	7	20	13	0.81	0.71	-0.1	0	0	0	0	0	0	0	0
7/13/2024 9:43	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 9:43	22901	HARW_T1	2	17	15	0.75	0.23	-0.52	-0.43	-0.26	1	1	0	1200	1200	0
7/13/2024 9:45	20603	GRWO_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/13/2024 9:45	20601	GRWO_T2	2	0	-2	0.4	0	-0.4	0.88	0.03	0	0	0	0	0	0
7/13/2024 9:48	41902	REED_T1	9	7	-2	0.48	0	-0.48	2.1	2.06	0	0	0	0	0	0
7/13/2024 9:49	55408	SHER_T2	2	2	0	0.7	0.55	-0.15	-0.94	-0.94	1	1	0	1200	1200	0
7/13/2024 9:52	65802	RTWN_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
7/13/2024 9:52	67605	WARW_T1	0	0	0	0	0	0	-0.98	-0.95	0	0	0	0	0	0
7/13/2024 9:53	67605	WARW_T1	0	0	0	0	0	0	-0.98	-0.95	0	0	0	0	0	0
7/13/2024 9:53	20403	ASHF_T2	0	3	3	0	0	0	0.91	0.97	0	0	0	0	0	0
7/13/2024 9:53	20402	ASHF_T2	3	4	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
7/13/2024 9:53	20401	ASHF_T2	4	4	0	0.73	0.9	0.17	0	0	0	0	0	0	0	0
7/13/2024 9:55	29402	BELT_T1	0	112	112	0	1.24	1.24	0	0	0	0	0	0	0	0
7/13/2024 9:55	67603	WARW_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
7/13/2024 9:55	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/13/2024 9:56	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 9:56	67605	WARW_T1	0	0	0	0	0	0	-0.98	-0.95	0	0	0	0	0	0
7/13/2024 9:57	60801	BUCK_T1	0	0	0	0	0	0	-0.61	-0.58	1	1	0	600	600	0
7/13/2024 9:57	67605	WARW_T1	0	0	0	0	0	0	-0.98	-0.95	0	0	0	0	0	0
7/13/2024 9:58	60801	BUCK_T1	0	0	0	0	0	0	-0.61	-0.58	1	1	0	600	600	0
7/13/2024 10:00	24102	EHAZ_T1	21	23	2	0.56	0.57	0.01	0	0	0	0	0	0	0	0
7/13/2024 10:00	20402	ASHF_T2	2	7	5	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/13/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
7/13/2024 10:00	24105	EHAZ_T1	4	4	0	6.7	6.78	0.08	0	0	0	0	0	0	0	0
7/13/2024 10:00	41902	REED_T1	7	0	-7	0.3	0	-0.3	2.06	0.51	0	0	0	0	0	0
7/13/2024 10:00	65205	PRIN_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
7/13/2024 10:00	20401	ASHF_T2	4	12	8	0.9	0.9	0	0	0	0	0	0	0	0	0
7/13/2024 10:00	14201	EALL_T1	0	0	0	0	0	0	-0.23	-0.17	0	0	0	0	0	0
7/13/2024 10:00	44203	POIN_T2	10	6	-4	1.42	2.02	0.6	0.69	-0.35	1	2	1	900	2100	1200
7/13/2024 10:00	24103	EHAZ_T1	0	0	0	0	0	0	-1.37	-1.32	0	0	0	0	0	0
7/13/2024 10:00	20403	ASHF_T2	0	3	3	0	0.97	0.97	0.91	0.97	0	0	0	0	0	0
7/13/2024 10:00	24101	EHAZ_T1	0	15	15	0	0.28	0.28	0	0	0	0	0	0	0	0
7/13/2024 10:00	40505	CRES_T1	3	3	0	2.73	2.6	-0.13	0.75	0.75	0	0	0	0	0	0
7/13/2024 10:07	67503	WEWI_T2	0	1	1	0	0	0	-0.29	-0.29	0	0	0	0	0	0
7/13/2024 10:08	44301	BEAV_T2	3	1	-2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/13/2024 10:08	44302	BEAV_T2	2	3	1	0.35	0.43	0.08	1.38	1.43	0	0	0	0	0	0
7/13/2024 10:09	56803	BENV_T1	2	1	-1	2	6	4	0	0	0	0	0	0	0	0
7/13/2024 10:09	24902	WHHA_T1	7	3	-4	0.47	1.2	0.73	0.64	0.69	0	0	0	0	0	0
7/13/2024 10:09	56801	BENV_T1	2	0	-2	0.15	0	-0.15	-0.46	-0.46	1	1	0	600	600	0
7/13/2024 10:10	20403	ASHF_T2	0	3	3	0	0.97	0.97	0.97	1.02	0	0	0	0	0	0
7/13/2024 10:10	21201	ECAR_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 10:10	20402	ASHF_T2	2	7	5	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/13/2024 10:10	65005	NEFF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/13/2024 10:10	65001	NEFF_T2	0	0	0	0	0	0	-0.45	-0.5	1	1	0	1200	1200	0
7/13/2024 10:10	21203	ECAR_T1	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
7/13/2024 10:10	20401	ASHF_T2	4	12	8	0.9	0.9	0	0	0	0	0	0	0	0	0
7/13/2024 10:12	46203	DANV_T2	0	1	1	0	0	0	-1.54	-1.5	0	0	0	0	0	0
7/13/2024 10:12	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 10:12	21206	ECAR_T2	1	2	1	6.6	7.2	0.6	0.45	0.51	0	0	0	0	0	0
7/13/2024 10:12	46206	DANV_T2	20	18	-2	0.63	0.65	0.02	0	0	0	0	0	0	0	0
7/13/2024 10:13	11507	FREE_T2	2	2	0	0.2	0.3	0.1	0.78	0.69	0	0	0	0	0	0
7/13/2024 10:14	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 10:14	22905	HARW_T1	0	10	10	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 10:14	52002	LING_T2	0	0	0	0	0	0	1.33	1.44	0	0	0	0	0	0
7/13/2024 10:14	22901	HARW_T1	15	7	-8	0.27	0.1	-0.17	-0.26	-0.4	1	1	0	1200	1200	0
7/13/2024 10:14	22903	HARW_T1	8	21	13	0.51	0.59	0.08	0	0	0	0	0	0	0	0
7/13/2024 10:14	46206	DANV_T2	20	18	-2	0.63	0.65	0.02	1.87	1.84	4	4	0	4200	4200	0
7/13/2024 10:15	46204	DANV_T2	0	12	12	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 10:15	46206	DANV_T2	15	24	9	0.63	0.63	0	0	0	0	0	0	0	0	0
7/13/2024 10:15	22602	KIMB_T1	0	0	0	0	0	0	0.42	0.46	0	0	0	0	0	0
7/13/2024 10:15	46203	DANV_T2	0	1	1	0	0	0	-1.54	-1.5	0	0	0	0	0	0
7/13/2024 10:15	22601	KIMB_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64203	KINZ_T1	1	1	0	1	1.2	0.2	-0.06	0.01	2	2	0	900	900	0
7/13/2024 10:17	64204	KINZ_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
7/13/2024 10:18	47401	PENS_T1	7	10	3	0.73	0.87	0.14	1.6	1.63	0	0	0	0	0	0
7/13/2024 10:18	47402	PENS_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/13/2024 10:18	47403	PENS_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/13/2024 10:18	52002	LING_T2	0	0	0	0	0	0	0.89	0.96	0	0	0	0	0	0
7/13/2024 10:20	47401	PENS_T1	7	10	3	0.73	0.87	0.14	1.6	1.63	0	0	0	0	0	0
7/13/2024 10:20	47402	PENS_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/13/2024 10:20	64101	REFR_T1	0	0	0	0	0	0	0.75	0.78	0	0	0	0	0	0
7/13/2024 10:20	47403	PENS_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/13/2024 10:21	43304	WATS_T2	0	1	1	0	0	0	-0.72	-0.69	1	0	-1	600	0	-600
7/13/2024 10:22	47403	PENS_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/13/2024 10:22	20403	ASHF_T2	3	3	0	1.03	0	-1.03	1.02	-0.15	0	0	0	0	0	0
7/13/2024 10:22	20402	ASHF_T2	4	9	5	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/13/2024 10:22	20401	ASHF_T2	4	13	9	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
7/13/2024 10:22	47401	PENS_T1	7	10	3	0.73	0.87	0.14	1.63	1.67	0	0	0	0	0	0
7/13/2024 10:22	47402	PENS_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/13/2024 10:23	43304	WATS_T2	0	1	1	0	0	0	-3.58	-3.44	0	0	0	0	0	0
7/13/2024 10:24	14403	SSLA_T1	0	3	3	0	0	0	0.21	0.26	2	2	0	1200	1200	0
7/13/2024 10:24	43304	WATS_T2	0	1	1	0	0	0	-0.72	-0.69	0	0	0	0	0	0
7/13/2024 10:24	14404	SSLA_T1	2	7	5	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
7/13/2024 10:25	56801	BENV_T1	0	2	2	0	0.35	0.35	-0.46	-0.4	1	1	0	600	600	0
7/13/2024 10:25	56803	BENV_T1	1	2	1	6	9.9	3.9	-0.11	-0.03	1	1	0	600	600	0
7/13/2024 10:25	20402	ASHF_T2	4	9	5	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/13/2024 10:25	20401	ASHF_T2	4	13	9	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
7/13/2024 10:25	20403	ASHF_T2	3	3	0	1.03	0	-1.03	1.02	-0.15	0	0	0	0	0	0
7/13/2024 10:26	43304	WATS_T2	0	1	1	0	0	0	-0.72	-0.69	0	0	0	0	0	0
7/13/2024 10:26	65401	MARI_T1	0	0	0	0	0	0	-0.23	-0.18	0	0	0	0	0	0
7/13/2024 10:28	46206	DANV_T2	15	24	9	0.63	0.63	0	0	0	0	0	0	0	0	0
7/13/2024 10:28	46204	DANV_T2	0	12	12	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 10:28	46203	DANV_T2	0	1	1	0	0	0	-3	-2.97	0	0	0	0	0	0
7/13/2024 10:30	20401	ASHF_T2	12	14	2	0.64	0.6	-0.04	0	0	0	0	0	0	0	0
7/13/2024 10:30	20402	ASHF_T2	3	9	6	0.33	1.02	0.69	0	0	0	0	0	0	0	0
7/13/2024 10:30	20403	ASHF_T2	3	0	-3	0.97	0	-0.97	1.02	-0.15	0	0	0	0	0	0
7/13/2024 10:31	22901	HARW_T1	7	30	23	0.36	0.57	0.21	-0.4	-0.33	1	1	0	1200	1200	0
7/13/2024 10:31	22905	HARW_T1	10	18	8	0.49	1.09	0.6	0	0	0	0	0	0	0	0
7/13/2024 10:31	22903	HARW_T1	21	24	3	0.86	1.71	0.85	0	0	0	0	0	0	0	0
7/13/2024 10:32	25503	MADI_T1	3	4	1	0.13	0.2	0.07	-0.56	-0.55	0	0	0	0	0	0
7/13/2024 10:32	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 10:32	13501	MCMI_T1	1	0	-1	0.1	0	-0.1	0.47	0.53	0	0	0	0	0	0
7/13/2024 10:32	25501	MADI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/13/2024 10:32	13503	MCMI_T2	3	3	0	0.37	0.5	0.13	-0.62	-0.64	0	0	0	0	0	0
7/13/2024 10:33	54701	NEBL_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
7/13/2024 10:36	47402	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/13/2024 10:36	47401	PENS_T1	9	9	0	0.84	0.8	-0.04	3.33	2.79	0	0	0	0	0	0
7/13/2024 10:36	55408	SHER_T2	2	2	0	0.55	0.7	0.15	-0.94	-0.94	1	1	0	1200	1200	0
7/13/2024 10:36	47403	PENS_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/13/2024 10:37	56501	ROCK_T2	2	2	0	1.9	0.7	-1.2	-1.3	-1.28	0	0	0	0	0	0
7/13/2024 10:37	56504	ROCK_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 10:39	43304	WATS_T2	0	2	2	0	0	0	-0.69	-0.7	0	0	0	0	0	0
7/13/2024 10:39	56501	ROCK_T2	2	2	0	1.9	0.7	-1.2	-2.59	-2.56	0	0	0	0	0	0
7/13/2024 10:39	56504	ROCK_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 10:39	16302	ALPA_T2	0	0	0	0	0	0	0.09	0.26	0	0	0	0	0	0
7/13/2024 10:40	20401	ASHF_T2	12	14	2	0.64	0.6	-0.04	0.44	0.5	0	0	0	0	0	0
7/13/2024 10:40	56501	ROCK_T2	2	2	0	1.9	0.7	-1.2	-1.3	-1.28	0	0	0	0	0	0
7/13/2024 10:40	20402	ASHF_T2	3	9	6	0.33	1.02	0.69	0	0	0	0	0	0	0	0
7/13/2024 10:40	56504	ROCK_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 10:40	29401	BELT_T1	0	14	14	0	0.32	0.32	0	0	1	1	0	900	900	0
7/13/2024 10:40	20403	ASHF_T2	3	0	-3	0.97	0	-0.97	0	0	0	0	0	0	0	0
7/13/2024 10:40	29402	BELT_T1	94	103	9	0.86	0.99	0.13	0	0	0	0	0	0	0	0
7/13/2024 10:41	29401	BELT_T1	0	14	14	0	0.32	0.32	0	0	0	0	0	0	0	0
7/13/2024 10:41	29402	BELT_T1	94	103	9	0.86	0.99	0.13	0	0	0	0	0	0	0	0
7/13/2024 10:41	16302	ALPA_T2	0	0	0	0	0	0	0.09	0.26	0	0	0	0	0	0
7/13/2024 10:42	29402	BELT_T1	94	103	9	0.86	0.99	0.13	0	0	0	0	0	0	0	0
7/13/2024 10:42	29401	BELT_T1	0	14	14	0	0.32	0.32	0	0	0	0	0	0	0	0
7/13/2024 10:43	52401	GRPA_T2	1	4	3	0.2	1.1	0.9	0	0	0	0	0	0	0	0
7/13/2024 10:43	52404	GRPA_T2	2	4	2	0.3	0	-0.3	0.12	0.01	0	0	0	0	0	0
7/13/2024 10:43	52402	GRPA_T2	3	6	3	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
7/13/2024 10:43	52403	GRPA_T2	43	71	28	0.61	0.81	0.2	-0.14	-0.09	0	0	0	0	0	0
7/13/2024 10:44	52401	GRPA_T2	1	4	3	0.2	1.1	0.9	0	0	0	0	0	0	0	0
7/13/2024 10:44	52402	GRPA_T2	3	6	3	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
7/13/2024 10:44	52404	GRPA_T2	2	4	2	0.3	0	-0.3	0.12	0.01	0	0	0	0	0	0
7/13/2024 10:44	52403	GRPA_T2	43	71	28	0.61	0.81	0.2	0	0	0	0	0	0	0	0
7/13/2024 10:45	46801	HEPB_T2	2	2	0	0.75	1	0.25	0.23	0.26	0	0	0	0	0	0
7/13/2024 10:45	46803	HEPB_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
7/13/2024 10:47	52403	GRPA_T2	58	83	25	0.82	0.95	0.13	-0.14	-0.09	0	0	0	0	0	0
7/13/2024 10:47	13503	MCMI_T2	2	3	1	0.4	0.47	0.07	-1.29	-1.25	0	0	0	0	0	0
7/13/2024 10:47	52404	GRPA_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/13/2024 10:47	52402	GRPA_T2	5	5	0	0.4	0.85	0.45	0	0	0	0	0	0	0	0
7/13/2024 10:47	25402	JAHA_T2	9	33	24	0.82	1.04	0.22	0.14	0.1	0	0	0	0	0	0
7/13/2024 10:47	52401	GRPA_T2	3	3	0	0.5	1.2	0.7	0	0	0	0	0	0	0	0
7/13/2024 10:51	58001	WCAR_T1	4	4	0	0.8	0.48	-0.32	-1.09	-1.1	0	0	0	0	0	0
7/13/2024 10:51	42601	TUSC_T1	0	0	0	0	0	0	-1.02	-1	2	2	0	1800	1800	0
7/13/2024 10:51	58003	WCAR_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
7/13/2024 10:52	55408	SHER_T2	2	2	0	0.7	0.7	0	-0.94	-0.94	1	1	0	1200	1200	0
7/13/2024 10:54	42701	AUGU_T1	48	52	4	0.56	0.63	0.07	0	0	2	2	0	1800	1800	0
7/13/2024 10:55	42701	AUGU_T1	48	52	4	0.56	0.63	0.07	0	0	2	2	0	1800	1800	0
7/13/2024 10:55	54506	ENOL_T2	0	0	0	0	0	0	-0.36	-0.36	1	1	0	600	600	0
7/13/2024 10:56	42701	AUGU_T1	48	52	4	0.56	0.63	0.07	0	0	2	2	0	1800	1800	0
7/13/2024 11:00	40901	JESH_T1	3	3	0	2	1.77	-0.23	0	0	0	0	0	0	0	0
7/13/2024 11:00	40902	JESH_T1	0	0	0	0	0	0	-1.53	-1.48	2	2	0	1200	1200	0
7/13/2024 11:00	51401	LYKE_T1	0	0	0	0	0	0	0.5	0.53	0	0	0	0	0	0
7/13/2024 11:01	52404	GRPA_T2	0	0	0	0	0	0	0.01	-0.51	0	0	0	0	0	0
7/13/2024 11:01	52403	GRPA_T2	71	81	10	0.93	1	0.07	0	0	0	0	0	0	0	0
7/13/2024 11:01	52401	GRPA_T2	2	5	3	1.05	0.55	-0.5	0	0	0	0	0	0	0	0
7/13/2024 11:01	52402	GRPA_T2	5	4	-1	0.76	0.53	-0.23	0	0	0	0	0	0	0	0
7/13/2024 11:02	13503	MCMI_T2	3	1	-2	0.47	0.2	-0.27	-0.62	-0.59	0	0	0	0	0	0
7/13/2024 11:02	51401	LYKE_T1	0	0	0	0	0	0	0.5	0.53	0	0	0	0	0	0
7/13/2024 11:03	40902	JESH_T1	0	0	0	0	0	0	-1.53	-1.48	2	2	0	1200	1200	0
7/13/2024 11:03	40901	JESH_T1	3	3	0	2	1.77	-0.23	0	0	0	0	0	0	0	0
7/13/2024 11:05	64101	REFR_T1	3	6	3	0.43	0.2	-0.23	2.12	2.13	0	0	0	0	0	0
7/13/2024 11:06	64101	REFR_T1	3	6	3	0.43	0.2	-0.23	0.43	0.51	0	0	0	0	0	0
7/13/2024 11:06	40603	PIGR_T1	6	6	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
7/13/2024 11:06	40602	PIGR_T1	3	4	1	0.77	0.95	0.18	-1.2	-1.17	1	1	0	600	600	0
7/13/2024 11:07	64101	REFR_T1	3	6	3	0.43	0.2	-0.23	0.85	1.01	0	0	0	0	0	0
7/13/2024 11:07	56501	ROCK_T2	2	4	2	0.65	0.37	-0.28	-1.25	-2.4	0	0	0	0	0	0
7/13/2024 11:07	56504	ROCK_T2	5	5	0	0.66	1	0.34	0	0	0	0	0	0	0	0
7/13/2024 11:08	20402	ASHF_T2	9	13	4	1.49	0.65	-0.84	0	0	0	0	0	0	0	0
7/13/2024 11:08	20401	ASHF_T2	13	32	19	0.54	0.66	0.12	0	0	0	0	0	0	0	0
7/13/2024 11:08	56504	ROCK_T2	5	5	0	0.66	1	0.34	0	0	0	0	0	0	0	0
7/13/2024 11:08	56501	ROCK_T2	2	4	2	0.65	0.37	-0.28	-1.25	-2.4	0	0	0	0	0	0
7/13/2024 11:08	67605	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/13/2024 11:08	64101	REFR_T1	3	6	3	0.43	0.2	-0.23	0.43	0.51	0	0	0	0	0	0
7/13/2024 11:08	67603	WARW_T1	0	0	0	0	0	0	0.34	-0.19	0	0	0	0	0	0
7/13/2024 11:08	20403	ASHF_T2	0	2	2	0	0	0	-0.02	-0.04	0	0	0	0	0	0
7/13/2024 11:09	56501	ROCK_T2	2	4	2	0.65	0.37	-0.28	0	0	0	0	0	0	0	0
7/13/2024 11:09	60801	BUCK_T1	0	0	0	0	0	0	-0.5	-0.48	1	1	0	600	600	0
7/13/2024 11:09	56504	ROCK_T2	5	5	0	0.66	1	0.34	0.25	0.28	0	0	0	0	0	0
7/13/2024 11:12	46203	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/13/2024 11:12	46204	DANV_T2	23	113	90	0.47	0.41	-0.06	0	0	0	0	0	0	0	0
7/13/2024 11:12	54504	ENOL_T2	0	0	0	0	0	0	-1.36	-1.33	1	1	0	600	600	0
7/13/2024 11:12	46206	DANV_T2	30	62	32	0.57	0.57	0	0.99	1	2	2	0	2100	2100	0
7/13/2024 11:14	52002	LING_T2	0	0	0	0	0	0	-0.19	-0.1	0	0	0	0	0	0
7/13/2024 11:14	52004	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 11:20	40603	PIGR_T1	2	6	4	0.85	0.37	-0.48	-1.21	-1.2	1	1	0	900	900	0
7/13/2024 11:20	40602	PIGR_T1	4	2	-2	0.75	1.7	0.95	0	0	0	0	0	0	0	0
7/13/2024 11:21	64101	REFR_T1	3	6	3	0.2	0.82	0.62	0.51	0.53	0	0	0	0	0	0
7/13/2024 11:23	56801	BENV_T1	4	9	5	0.9	1.08	0.18	-0.63	-0.53	2	2	0	1200	1200	0
7/13/2024 11:23	56803	BENV_T1	3	7	4	0.97	0.5	-0.47	0	0	0	0	0	0	0	0
7/13/2024 11:25	56801	BENV_T1	4	9	5	0.9	1.08	0.18	-0.63	-0.53	2	2	0	1200	1200	0
7/13/2024 11:25	56803	BENV_T1	3	7	4	0.97	0.5	-0.47	0	0	0	0	0	0	0	0
7/13/2024 11:26	56803	BENV_T1	3	7	4	0.97	0.5	-0.47	0	0	0	0	0	0	0	0
7/13/2024 11:26	55105	WERT_T1	0	0	0	0	0	0	0.35	0.44	1	1	0	900	900	0
7/13/2024 11:26	55103	WERT_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
7/13/2024 11:26	56801	BENV_T1	4	9	5	0.9	1.08	0.18	-0.94	-0.79	3	3	0	1800	1800	0
7/13/2024 11:26	60803	BUCK_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
7/13/2024 11:26	60801	BUCK_T1	0	0	0	0	0	0	-0.48	-0.45	1	1	0	600	600	0
7/13/2024 11:27	11101	EGYP_T1	4	4	0	1.53	1.63	0.1	0	0	0	0	0	0	0	0
7/13/2024 11:27	11102	EGYP_T1	6	14	8	1.35	1.68	0.33	0	0	0	0	0	0	0	0
7/13/2024 11:27	60801	BUCK_T1	0	0	0	0	0	0	-0.48	-0.45	1	1	0	600	600	0
7/13/2024 11:27	11104	EGYP_T1	10	17	7	1.39	1.37	-0.02	0.96	0.11	0	1	1	0	900	900
7/13/2024 11:27	56803	BENV_T1	3	7	4	0.97	0.5	-0.47	0	0	0	0	0	0	0	0
7/13/2024 11:27	56801	BENV_T1	4	9	5	0.9	1.08	0.18	-0.94	-0.79	3	3	0	1800	1800	0
7/13/2024 11:27	60803	BUCK_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
7/13/2024 11:28	56803	BENV_T1	3	7	4	0.97	0.5	-0.47	0	0	0	0	0	0	0	0
7/13/2024 11:28	41602	CLEV_T1	77	42	-35	0.96	0.58	-0.38	0	0	1	1	0	600	600	0
7/13/2024 11:28	56801	BENV_T1	4	9	5	0.9	1.08	0.18	-0.63	-0.53	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/13/2024 11:29	11102	EGYP_T1	6	14	8	1.35	1.68	0.33	0	0	0	0	0	0	0	0
7/13/2024 11:29	11101	EGYP_T1	4	4	0	1.53	1.63	0.1	0	0	0	0	0	0	0	0
7/13/2024 11:29	11104	EGYP_T1	10	17	7	1.39	1.37	-0.02	1.92	0.23	0	2	2	0	1800	1800
7/13/2024 11:31	48302	ORWI_T2	1	17	16	0.2	0.29	0.09	-0.02	-0.07	0	0	0	0	0	0
7/13/2024 11:32	52002	LING_T2	0	6	6	0	0	0	-0.1	-0.11	0	0	0	0	0	0
7/13/2024 11:32	52004	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 11:33	52002	LING_T2	0	6	6	0	0	0	-0.19	-0.22	0	0	0	0	0	0
7/13/2024 11:33	52004	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 11:36	67203	TEHI_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
7/13/2024 11:36	52501	PROG_T1	0	0	0	0	0	0	-0.7	-0.64	1	1	0	300	300	0
7/13/2024 11:36	67201	TEHI_T1	0	2	2	0	0.2	0.2	0.74	0.32	1	1	0	600	600	0
7/13/2024 11:37	14404	SSLA_T1	12	26	14	0.41	0.45	0.04	0	0	0	0	0	0	0	0
7/13/2024 11:37	14401	SSLA_T1	6	7	1	0.47	0.5	0.03	0	0	0	0	0	0	0	0
7/13/2024 11:37	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 11:37	14403	SSLA_T1	12	24	12	0.78	0.92	0.14	0.27	0.29	2	2	0	1200	1200	0
7/13/2024 11:38	46302	ROHR_T1	7	7	0	0.3	0.6	0.3	0.4	0.4	0	0	0	0	0	0
7/13/2024 11:38	67605	WARW_T1	1	1	0	0.2	0.5	0.3	-0.76	-0.73	0	0	0	0	0	0
7/13/2024 11:38	56803	BENV_T1	6	9	3	0.55	0.94	0.39	0	0	0	0	0	0	0	0
7/13/2024 11:38	56801	BENV_T1	8	8	0	0.8	1.14	0.34	-0.26	-0.27	1	1	0	600	600	0
7/13/2024 11:38	63501	HEID_TBK1-2	0	0	0	0	0	0	0.33	0.36	1	1	0	900	900	0
7/13/2024 11:39	60803	BUCK_T1	0	4	4	0	0.13	0.13	-1.66	-1.62	2	2	0	1200	1200	0
7/13/2024 11:40	67605	WARW_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/13/2024 11:40	55101	WERT_T1	0	0	0	0	0	0	-4.59	-4.38	8	8	0	6600	6600	0
7/13/2024 11:40	55103	WERT_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/13/2024 11:40	67603	WARW_T1	0	0	0	0	0	0	-0.21	-0.16	0	0	0	0	0	0
7/13/2024 11:40	60803	BUCK_T1	0	4	4	0	0.13	0.13	-0.83	-0.81	1	1	0	600	600	0
7/13/2024 11:41	56803	BENV_T1	6	9	3	0.55	0.94	0.39	0	0	0	0	0	0	0	0
7/13/2024 11:41	67602	WARW_T2	0	1	1	0	0	0	0.19	0.16	2	2	0	1500	1500	0
7/13/2024 11:41	56801	BENV_T1	8	8	0	0.8	1.14	0.34	-0.26	-0.27	1	1	0	600	600	0
7/13/2024 11:42	56801	BENV_T1	8	8	0	0.8	1.14	0.34	-1.06	-1.1	4	4	0	2400	2400	0
7/13/2024 11:42	67801	WLAN_T1	5	25	20	0.3	0.24	-0.06	-0.81	-0.81	0	0	0	0	0	0
7/13/2024 11:42	67602	WARW_T2	0	1	1	0	0	0	0.19	0.16	2	2	0	1500	1500	0
7/13/2024 11:42	67605	WARW_T1	1	1	0	0.2	0.5	0.3	-0.76	-0.73	0	0	0	0	0	0
7/13/2024 11:42	67605	WARW_T1	1	1	0	0.2	0.5	0.3	-0.76	-0.73	0	0	0	0	0	0
7/13/2024 11:42	67605	WARW_T1	1	1	0	0.2	0.5	0.3	-0.76	-0.73	0	0	0	0	0	0
7/13/2024 11:42	56803	BENV_T1	6	9	3	0.55	0.94	0.39	0	0	0	0	0	0	0	0
7/13/2024 11:42	67804	WLAN_T1	10	10	0	1.92	1.88	-0.04	0	0	0	0	0	0	0	0
7/13/2024 11:43	56803	BENV_T1	6	9	3	0.55	0.94	0.39	0	0	0	0	0	0	0	0
7/13/2024 11:43	56801	BENV_T1	8	8	0	0.8	1.14	0.34	-0.26	-0.27	1	1	0	600	600	0
7/13/2024 11:43	67605	WARW_T1	1	1	0	0.2	0.5	0.3	-0.76	-0.73	0	0	0	0	0	0
7/13/2024 11:44	45802	HEGI_T2	6	42	36	0.25	0.8	0.55	-0.63	-0.56	2	2	0	1200	1200	0
7/13/2024 11:44	12301	LANA_T2	1	1	0	0.5	0	-0.5	-0.77	-0.92	1	1	0	1200	1200	0
7/13/2024 11:44	60803	BUCK_T1	0	4	4	0	0.13	0.13	-0.83	-0.81	1	1	0	600	600	0
7/13/2024 11:44	12305	LANA_T2	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/13/2024 11:44	12304	LANA_T2	0	5	5	0	0.88	0.88	0	0	0	0	0	0	0	0
7/13/2024 11:45	45802	HEGI_T2	42	41	-1	0.8	0.7	-0.1	-0.63	-0.56	2	2	0	1200	1200	0
7/13/2024 11:48	57304	MOAL_T2	2	11	9	0.65	0.27	-0.38	-0.2	-0.56	0	0	0	0	0	0
7/13/2024 11:48	57303	MOAL_T2	1	1	0	8.7	9	0.3	0	0	0	0	0	0	0	0
7/13/2024 11:51	46302	ROHR_T1	6	11	5	0.62	0.34	-0.28	0.4	0.43	0	0	0	0	0	0
7/13/2024 11:51	48303	ORWI_T2	0	1	1	0	0	0	0.86	0.86	0	0	0	0	0	0
7/13/2024 11:51	48302	ORWI_T2	14	29	15	0.32	0.52	0.2	0	0	0	0	0	0	0	0
7/13/2024 11:52	65903	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 11:52	65902	SAKR_T2	1	0	-1	3	0	-3	0	0	0	0	0	0	0	0
7/13/2024 11:52	65901	SAKR_T2	1	1	0	5.2	5.4	0.2	-0.18	-0.39	2	2	0	1500	1500	0
7/13/2024 11:53	46302	ROHR_T1	6	11	5	0.62	0.34	-0.28	0.4	0.43	0	0	0	0	0	0
7/13/2024 11:54	45602	WOOL_T1	0	1	1	0	0.4	0.4	1.69	-0.88	0	3	3	0	2700	2700
7/13/2024 11:56	60803	BUCK_T1	4	1	-3	0.13	0.2	0.07	-0.81	-0.82	1	1	0	600	600	0
7/13/2024 11:57	60803	BUCK_T1	4	1	-3	0.13	0.2	0.07	0	0	0	0	0	0	0	0
7/13/2024 11:57	60801	BUCK_T1	0	0	0	0	0	0	-0.43	-0.42	1	1	0	600	600	0
7/13/2024 11:58	46204	DANV_T2	104	141	37	0.48	0.52	0.04	0	0	0	0	0	0	0	0
7/13/2024 11:58	46206	DANV_T2	66	76	10	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
7/13/2024 11:58	46203	DANV_T2	2	2	0	0.35	0.1	-0.25	-2.33	-2.27	0	0	0	0	0	0
7/13/2024 11:58	46205	DANV_T2	1	6	5	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/13/2024 11:59	64701	LITI_T1	0	6	6	0	0	0	-0.24	-0.19	1	1	0	900	900	0
7/13/2024 12:00	46203	DANV_T2	0	3	3	0	0.1	0.1	-6.99	-6.8	0	0	0	0	0	0
7/13/2024 12:00	46206	DANV_T2	74	68	-6	0.84	0.65	-0.19	0	0	0	0	0	0	0	0
7/13/2024 12:00	46205	DANV_T2	6	0	-6	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/13/2024 12:00	46204	DANV_T2	139	125	-14	0.64	0.41	-0.23	0	0	0	0	0	0	0	0
7/13/2024 12:01	52403	GRPA_T2	30	43	13	0.62	0.53	-0.09	0	0	0	0	0	0	0	0
7/13/2024 12:01	52402	GRPA_T2	2	41	39	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
7/13/2024 12:01	52404	GRPA_T2	0	0	0	0	0	0	-0.38	-0.43	0	0	0	0	0	0
7/13/2024 12:01	52401	GRPA_T2	2	10	8	1.05	0	-1.05	0	0	0	0	0	0	0	0
7/13/2024 12:02	22903	HARW_T1	10	22	12	0.5	0.82	0.32	-0.66	-0.64	0	0	0	0	0	0
7/13/2024 12:02	22905	HARW_T1	9	17	8	0.27	0.3	0.03	0	0	0	0	0	0	0	0
7/13/2024 12:02	22901	HARW_T1	32	32	0	0.44	0.64	0.2	0	0	0	0	0	0	0	0
7/13/2024 12:03	52006	LING_T2	0	7	7	0	0.52	0.52	0	0	0	0	0	0	0	0
7/13/2024 12:03	52004	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 12:03	52002	LING_T2	2	5	3	0.45	0.1	-0.35	-0.06	-0.07	0	0	0	0	0	0
7/13/2024 12:04	67605	WARW_T1	0	0	0	0	0	0	-0.73	-0.7	0	0	0	0	0	0
7/13/2024 12:05	67605	WARW_T1	0	0	0	0	0	0	-0.73	-0.7	0	0	0	0	0	0
7/13/2024 12:05	60301	TWVA_T2	0	2	2	0	1.2	1.2	-1.12	-0.91	2	2	0	1800	1800	0
7/13/2024 12:05	14801	TREI_T2	281	257	-24	2.76	2.92	0.16	0	0	0	0	0	0	0	0
7/13/2024 12:05	14802	TREI_T2	8	7	-1	0.59	0.78	0.19	0	0	0	0	0	0	0	0
7/13/2024 12:06	14801	TREI_T2	281	257	-24	2.76	2.92	0.16	0	0	0	0	0	0	0	0
7/13/2024 12:06	14802	TREI_T2	8	7	-1	0.59	0.78	0.19	0	0	0	0	0	0	0	0
7/13/2024 12:07	67201	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 12:07	14802	TREI_T2	8	7	-1	0.59	0.78	0.19	0	0	0	0	0	0	0	0
7/13/2024 12:07	67203	TEHI_T1	1	1	0	0.5	0.2	-0.3	1.53	1.51	1	1	0	900	900	0
7/13/2024 12:07	14801	TREI_T2	281	257	-24	2.76	2.92	0.16	0	0	0	0	0	0	0	0
7/13/2024 12:08	67804	WLAN_T1	10	10	0	2.11	1.79	-0.32	0	0	0	0	0	0	0	0
7/13/2024 12:08	67801	WLAN_T1	19	52	33	0.29	0.32	0.03	-0.78	-0.77	0	0	0	0	0	0
7/13/2024 12:08	56504	ROCK_T2	6	8	2	1.3	1.31	0.01	0.45	0.36	0	0	0	0	0	0
7/13/2024 12:08	56501	ROCK_T2	3	3	0	0.47	0.5	0.03	0	0	0	0	0	0	0	0
7/13/2024 12:10	67605	WARW_T1	0	0	0	0	0	0	-1.39	-1.29	0	0	0	0	0	0
7/13/2024 12:10	46203	DANV_T2	0	3	3	0	0.1	0.1	-2.27	-2.25	0	0	0	0	0	0
7/13/2024 12:10	60803	BUCK_T1	1	0	-1	0.2	0	-0.2	-0.82	-0.83	1	1	0	600	600	0
7/13/2024 12:10	46206	DANV_T2	74	68	-6	0.84	0.65	-0.19	0	0	0	0	0	0	0	0
7/13/2024 12:10	46204	DANV_T2	139	125	-14	0.64	0.41	-0.23	0	0	0	0	0	0	0	0
7/13/2024 12:10	46205	DANV_T2	6	0	-6	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/13/2024 12:13	63804	HEMP_T1	1	2	1	6.2	3.25	-2.95	0	0	0	0	0	0	0	0
7/13/2024 12:13	21206	ECAR_T2	25	48	23	1	0.75	-0.25	0.84	0.9	0	0	0	0	0	0
7/13/2024 12:13	63802	HEMP_T1	0	0	0	0	0	0	0.77	0.73	0	0	0	0	0	0
7/13/2024 12:13	21202	ECAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 12:13	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 12:13	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 12:15	12701	MACU_T1	0	2	2	0	0.7	0.7	-0.67	-0.61	1	1	0	1200	1200	0
7/13/2024 12:15	20601	GRWO_T2	55	69	14	0.61	0.47	-0.14	0.24	0.27	0	0	0	0	0	0
7/13/2024 12:15	47001	HUGH_T2	4	7	3	5.28	4.28	-1	-0.84	-0.83	1	1	0	900	900	0
7/13/2024 12:16	12701	MACU_T1	0	2	2	0	0.7	0.7	-0.67	-0.61	1	1	0	1200	1200	0
7/13/2024 12:19	47001	HUGH_T2	4	7	3	5.28	4.28	-1	-0.84	-0.83	1	1	0	900	900	0
7/13/2024 12:20	46206	DANV_T2	66	66	0	0.66	0.7	0.04	0	0	0	0	0	0	0	0
7/13/2024 12:20	46203	DANV_T2	2	4	2	0.1	0.2	0.1	-2.27	-2.25	0	0	0	0	0	0
7/13/2024 12:20	46204	DANV_T2	124	105	-19	0.53	0.41	-0.12	0	0	0	0	0	0	0	0
7/13/2024 12:21	65604	QVIL_T2	0	0	0	0	0	0	0.88	0.95	0	0	0	0	0	0
7/13/2024 12:22	65604	QVIL_T2	0	0	0	0	0	0	0.88	0.95	0	0	0	0	0	0
7/13/2024 12:24	67602	WARW_T2	2	0	-2	0.25	0	-0.25	0.31	0.35	2	2	0	1500	1500	0
7/13/2024 12:25	67605	WARW_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
7/13/2024 12:25	67602	WARW_T2	2	0	-2	0.25	0	-0.25	0.62	0.71	4	4	0	3000	3000	0
7/13/2024 12:30	20601	GRWO_T2	50	110	60	0.49	0.68	0.19	0.27	0.24	0	0	0	0	0	0
7/13/2024 12:30	11507	FREE_T2	7	15	8	0.77	0.68	-0.09	0.67	0.67	1	1	0	600	600	0
7/13/2024 12:31	42901	MIDD_T2	3	2	-1	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
7/13/2024 12:31	42902	MIDD_T2	4	14	10	1.13	1.23	0.1	-0.2	-0.19	0	0	0	0	0	0
7/13/2024 12:31	47002	HUGH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 12:31	42903	MIDD_T2	4	3	-1	0.95	1.03	0.08	0	0	0	0	0	0	0	0
7/13/2024 12:31	47001	HUGH_T2	5	8	3	4.26	4.88	0.62	-0.83	-0.84	1	1	0	900	900	0
7/13/2024 12:31	63403	HONY_T2	14	29	15	0.34	0.29	-0.05	0.14	0.19	0	0	0	0	0	0
7/13/2024 12:33	64704	LITI_T1	0	0	0	0	0	0	0.37	0.44	1	1	0	600	600	0
7/13/2024 12:33	64701	LITI_T1	6	10	4	0.22	1.48	1.26	0	0	0	0	0	0	0	0
7/13/2024 12:34	12801	WICK_T1	0	0	0	0	0	0	-0.92	-0.9	1	1	0	600	600	0
7/13/2024 12:34	64101	REFR_T1	10	14	4	2.55	1.76	-0.79	0.59	0.61	0	0	0	0	0	0
7/13/2024 12:35	64101	REFR_T1	10	14	4	2.55	1.76	-0.79	0.59	0.61	0	0	0	0	0	0
7/13/2024 12:36	59101	WALK_T2	0	1	1	0	0	0	0.11	0.25	0	0	0	0	0	0
7/13/2024 12:36	46301	ROHR_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
7/13/2024 12:36	46302	ROHR_T1	4	8	4	0.58	0.88	0.3	0	0	0	0	0	0	0	0
7/13/2024 12:36	41902	REED_T1	38	64	26	0.48	0.51	0.03	0.52	0.49	0	0	0	0	0	0
7/13/2024 12:37	66901	SHIL_T2	0	0	0	0	0	0	-0.76	-0.74	1	1	0	1200	1200	0
7/13/2024 12:37	66902	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 12:39	22003	BOHE_T1	2	2	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
7/13/2024 12:39	64101	REFR_T1	10	14	4	2.55	1.76	-0.79	0.61	0.61	0	0	0	0	0	0
7/13/2024 12:39	22001	BOHE_T1	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
7/13/2024 12:40	67602	WARW_T2	0	3	3	0	0	0	0.35	0.45	2	2	0	1500	1500	0
7/13/2024 12:44	40101	HUNT_T2	65	84	19	0.56	0.56	0	-0.16	-0.16	0	0	0	0	0	0
7/13/2024 12:46	40101	HUNT_T2	73	86	13	0.62	0.47	-0.15	-0.16	-0.16	0	0	0	0	0	0
7/13/2024 12:51	66703	STRA_T1	15	54	39	0.37	0.48	0.11	-0.24	-0.21	0	0	0	0	0	0
7/13/2024 12:51	66701	STRA_T1	8	11	3	0.38	0.7	0.32	0	0	0	0	0	0	0	0
7/13/2024 12:53	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 12:53	55101	WERT_T1	0	3	3	0	0	0	-2.09	-2.11	4	4	0	3300	3300	0
7/13/2024 12:54	55101	WERT_T1	0	3	3	0	0	0	-2.09	-2.11	4	4	0	3300	3300	0
7/13/2024 12:54	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 12:55	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 12:55	55101	WERT_T1	0	3	3	0	0	0	-4.18	-4.21	8	8	0	6600	6600	0
7/13/2024 12:56	55101	WERT_T1	0	3	3	0	0	0	-2.09	-2.11	4	4	0	3300	3300	0
7/13/2024 12:56	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 12:57	47104	MARL_T1	0	11	11	0	0.3	0.3	0	0	0	0	0	0	0	0
7/13/2024 12:57	47101	MARL_T1	70	155	85	1.16	0.97	-0.19	-1.26	-1.41	2	2	0	1200	1200	0
7/13/2024 12:58	40902	JESH_T1	2	3	1	0.6	0.45	-0.15	-1.85	-1.85	3	3	0	1800	1800	0
7/13/2024 12:58	40901	JESH_T1	5	4	-1	1.58	1.78	0.2	0	0	0	0	0	0	0	0
7/13/2024 13:00	64302	LINC_T2	26	34	8	0.52	0.57	0.05	1.63	1.63	0	0	0	0	0	0
7/13/2024 13:01	64302	LINC_T2	26	34	8	0.52	0.57	0.05	1.63	1.63	0	0	0	0	0	0
7/13/2024 13:03	13606	RICH_T2	4	5	1	1.98	3.85	1.87	0.41	0.28	0	0	0	0	0	0
7/13/2024 13:03	13601	RICH_T2	2	2	0	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
7/13/2024 13:04	12701	MACU_T1	4	4	0	0.53	1	0.47	-0.59	-0.6	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/13/2024 13:05	25503	MADI_T1	3	1	-2	0.43	0	-0.43	-0.33	-0.38	0	0	0	0	0	0
7/13/2024 13:05	25501	MADI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 13:05	12701	MACU_T1	4	4	0	0.53	1	0.47	-0.59	-0.6	1	1	0	1200	1200	0
7/13/2024 13:06	57104	SPHI_T2	1	1	0	0.5	0	-0.5	-2.08	-2	1	1	0	900	900	0
7/13/2024 13:06	55101	WERT_T1	0	3	3	0	0	0	-2.09	-2.11	4	4	0	3300	3300	0
7/13/2024 13:06	40302	TAMA_T3	4	2	-2	0.15	0.15	0	-2.24	-2.2	1	1	0	1200	1200	0
7/13/2024 13:06	13102	NHAM_T2	3	3	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
7/13/2024 13:06	13103	NHAM_T2	1	5	4	0.1	0.5	0.4	0	0	0	0	0	0	0	0
7/13/2024 13:06	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 13:06	55103	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/13/2024 13:06	57106	SPHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/13/2024 13:06	13105	NHAM_T2	14	58	44	0.47	0.74	0.27	-1.53	-1.46	1	1	0	1200	1200	0
7/13/2024 13:06	40301	TAMA_T3	3	6	3	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
7/13/2024 13:08	55103	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/13/2024 13:08	44302	BEAV_T2	8	7	-1	0.44	0.57	0.13	0.64	0.65	0	0	0	0	0	0
7/13/2024 13:08	44301	BEAV_T2	54	70	16	0.75	0.76	0.01	0	0	0	0	0	0	0	0
7/13/2024 13:08	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 13:08	12701	MACU_T1	4	4	0	0.53	1	0.47	-0.6	-0.64	1	1	0	1200	1200	0
7/13/2024 13:08	55101	WERT_T1	0	3	3	0	0	0	-4.21	-4.15	8	8	0	6600	6600	0
7/13/2024 13:09	61102	BERK_T5	0	0	0	0	0	0	0.15	0.17	4	4	0	2400	2400	0
7/13/2024 13:09	61101	BERK_T5	2	7	5	0.25	0.45	0.2	0	0	0	0	0	0	0	0
7/13/2024 13:09	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 13:09	55103	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/13/2024 13:09	67602	WARW_T2	3	5	2	0.23	0.77	0.54	0.46	0.38	2	2	0	1500	1500	0
7/13/2024 13:09	55101	WERT_T1	0	3	3	0	0	0	-2.11	-2.07	4	4	0	3300	3300	0
7/13/2024 13:09	15001	BLMO_T1	22	26	4	0.7	0.8	0.1	0	0	0	0	0	0	0	0
7/13/2024 13:10	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 13:10	55103	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/13/2024 13:10	55101	WERT_T1	0	3	3	0	0	0	-2.11	-2.07	4	4	0	3300	3300	0
7/13/2024 13:11	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 13:11	61102	BERK_T5	0	0	0	0	0	0	0.15	0.17	4	4	0	2400	2400	0
7/13/2024 13:11	44301	BEAV_T2	54	70	16	0.75	0.76	0.01	0	0	0	0	0	0	0	0
7/13/2024 13:11	55101	WERT_T1	0	3	3	0	0	0	-2.11	-2.07	4	4	0	3300	3300	0
7/13/2024 13:11	67602	WARW_T2	3	5	2	0.23	0.77	0.54	0.93	0.75	4	4	0	3000	3000	0
7/13/2024 13:11	55103	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/13/2024 13:11	61101	BERK_T5	2	7	5	0.25	0.45	0.2	0	0	0	0	0	0	0	0
7/13/2024 13:11	44302	BEAV_T2	8	7	-1	0.44	0.57	0.13	0.64	0.65	0	0	0	0	0	0
7/13/2024 13:12	61101	BERK_T5	2	7	5	0.25	0.45	0.2	0	0	0	0	0	0	0	0
7/13/2024 13:12	61102	BERK_T5	0	0	0	0	0	0	0.15	0.17	4	4	0	2400	2400	0
7/13/2024 13:13	61102	BERK_T5	0	0	0	0	0	0	0.08	0.09	2	2	0	1200	1200	0
7/13/2024 13:13	55103	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/13/2024 13:13	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 13:13	55101	WERT_T1	0	3	3	0	0	0	-2.11	-2.07	4	4	0	3300	3300	0
7/13/2024 13:13	61101	BERK_T5	2	7	5	0.25	0.45	0.2	0	0	0	0	0	0	0	0
7/13/2024 13:15	52404	GRPA_T2	1	3	2	0.7	0.85	0.15	0	0	0	0	0	0	0	0
7/13/2024 13:15	52402	GRPA_T2	21	48	27	0.54	0.48	-0.06	0	0	0	0	0	0	0	0
7/13/2024 13:15	52401	GRPA_T2	11	52	41	0.48	0.31	-0.17	0	0	0	0	0	0	0	0
7/13/2024 13:15	52403	GRPA_T2	118	92	-26	0.93	1.04	0.11	-0.23	-0.32	0	0	0	0	0	0
7/13/2024 13:16	42901	MIDD_T2	1	4	3	0.2	0.23	0.03	0	0	0	0	0	0	0	0
7/13/2024 13:16	63801	HEMP_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
7/13/2024 13:16	63804	HEMP_T1	3	1	-2	2.33	6.8	4.47	0.5	0.52	0	0	0	0	0	0
7/13/2024 13:16	42902	MIDD_T2	26	13	-13	0.76	0.74	-0.02	-0.3	-0.3	0	0	0	0	0	0
7/13/2024 13:16	42903	MIDD_T2	4	3	-1	0.9	0.97	0.07	0	0	0	0	0	0	0	0
7/13/2024 13:17	20601	GRWO_T2	101	116	15	0.81	0.92	0.11	0.29	0.31	0	0	0	0	0	0
7/13/2024 13:17	42903	MIDD_T2	4	3	-1	0.9	0.97	0.07	0	0	0	0	0	0	0	0
7/13/2024 13:17	42902	MIDD_T2	26	13	-13	0.76	0.74	-0.02	-0.15	-0.15	0	0	0	0	0	0
7/13/2024 13:17	55001	NEWP_T1	51	12	-39	1.01	0.32	-0.69	-0.21	-0.2	0	0	0	0	0	0
7/13/2024 13:17	55002	NEWP_T1	1	1	0	0.5	1.5	1	0	0	0	0	0	0	0	0
7/13/2024 13:17	42901	MIDD_T2	1	4	3	0.2	0.23	0.03	0	0	0	0	0	0	0	0
7/13/2024 13:18	42901	MIDD_T2	1	4	3	0.2	0.23	0.03	0	0	0	0	0	0	0	0
7/13/2024 13:18	42902	MIDD_T2	26	13	-13	0.76	0.74	-0.02	-0.15	-0.15	0	0	0	0	0	0
7/13/2024 13:18	55001	NEWP_T1	51	12	-39	1.01	0.32	-0.69	-0.21	-0.2	0	0	0	0	0	0
7/13/2024 13:18	55002	NEWP_T1	1	1	0	0.5	1.5	1	0	0	0	0	0	0	0	0
7/13/2024 13:18	42903	MIDD_T2	4	3	-1	0.9	0.97	0.07	0	0	0	0	0	0	0	0
7/13/2024 13:20	42902	MIDD_T2	26	13	-13	0.76	0.74	-0.02	-0.15	-0.15	0	0	0	0	0	0
7/13/2024 13:20	66701	STRA_T1	11	17	6	0.41	0.58	0.17	0.76	0.81	1	1	0	600	600	0
7/13/2024 13:20	42901	MIDD_T2	1	4	3	0.2	0.23	0.03	0	0	0	0	0	0	0	0
7/13/2024 13:20	66703	STRA_T1	52	63	11	0.51	0.51	0	0	0	0	0	0	0	0	0
7/13/2024 13:20	42903	MIDD_T2	4	3	-1	0.9	0.97	0.07	0	0	0	0	0	0	0	0
7/13/2024 13:23	56801	BENV_T1	2	4	2	0.15	0.53	0.38	-0.1	-0.07	1	1	0	600	600	0
7/13/2024 13:23	45602	WOOL_T1	0	9	9	0	0.14	0.14	-0.34	-0.25	2	2	0	1800	1800	0
7/13/2024 13:23	56803	BENV_T1	14	9	-5	1.51	1.35	-0.16	0	0	0	0	0	0	0	0
7/13/2024 13:24	61101	BERK_T5	4	9	5	0.45	0.34	-0.11	0	0	0	0	0	0	0	0
7/13/2024 13:24	66703	STRA_T1	52	63	11	0.51	0.51	0	0	0	0	0	0	0	0	0
7/13/2024 13:24	66701	STRA_T1	11	17	6	0.41	0.58	0.17	0.81	0.76	1	1	0	600	600	0
7/13/2024 13:24	56803	BENV_T1	14	9	-5	1.51	1.35	-0.16	-0.52	-0.46	1	1	0	600	600	0
7/13/2024 13:24	61102	BERK_T5	0	0	0	0	0	0	0.09	0.06	2	2	0	1200	1200	0
7/13/2024 13:24	56801	BENV_T1	2	4	2	0.15	0.53	0.38	0	0	0	0	0	0	0	0
7/13/2024 13:24	67602	WARW_T2	4	4	0	0.6	0.4	-0.2	0.38	0.46	2	2	0	1500	1500	0
7/13/2024 13:25	61102	BERK_T5	0	0	0	0	0	0	0.09	0.06	2	2	0	1200	1200	0
7/13/2024 13:25	56801	BENV_T1	2	4	2	0.15	0.53	0.38	0	0	0	0	0	0	0	0
7/13/2024 13:25	56803	BENV_T1	14	9	-5	1.51	1.35	-0.16	-0.52	-0.46	1	1	0	600	600	0
7/13/2024 13:25	29402	BELT_T1	87	125	38	1.7	1.58	-0.12	0	0	0	0	0	0	0	0
7/13/2024 13:25	29401	BELT_T1	0	1	1	0	0	0	0	0	1	1	0	900	900	0
7/13/2024 13:25	61101	BERK_T5	4	9	5	0.45	0.34	-0.11	0	0	0	0	0	0	0	0
7/13/2024 13:26	56801	BENV_T1	2	4	2	0.15	0.53	0.38	-0.21	-0.15	2	2	0	1200	1200	0
7/13/2024 13:26	56803	BENV_T1	14	9	-5	1.51	1.35	-0.16	0	0	0	0	0	0	0	0
7/13/2024 13:27	56803	BENV_T1	14	9	-5	1.51	1.35	-0.16	0	0	0	0	0	0	0	0
7/13/2024 13:27	67602	WARW_T2	4	4	0	0.6	0.4	-0.2	0.75	0.91	4	4	0	3000	3000	0
7/13/2024 13:27	56801	BENV_T1	2	4	2	0.15	0.53	0.38	-0.31	-0.22	3	3	0	1800	1800	0
7/13/2024 13:28	56801	BENV_T1	2	4	2	0.15	0.53	0.38	-0.1	-0.07	1	1	0	600	600	0
7/13/2024 13:28	56803	BENV_T1	14	9	-5	1.51	1.35	-0.16	0	0	0	0	0	0	0	0
7/13/2024 13:29	58003	WCAR_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
7/13/2024 13:29	56801	BENV_T1	2	4	2	0.15	0.53	0.38	0	0	0	0	0	0	0	0
7/13/2024 13:29	56803	BENV_T1	14	9	-5	1.51	1.35	-0.16	-0.52	-0.46	1	1	0	600	600	0
7/13/2024 13:29	58001	WCAR_T1	0	0	0	0	0	0	-0.87	-0.9	0	0	0	0	0	0
7/13/2024 13:32	64302	LINC_T2	31	54	23	0.63	0.57	-0.06	1.59	1.66	0	0	0	0	0	0
7/13/2024 13:32	52001	LING_T1	0	0	0	0	0	0	-0.21	-0.14	0	0	0	0	0	0
7/13/2024 13:32	52003	LING_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
7/13/2024 13:33	40101	HUNT_T2	147	220	73	0.69	0.67	-0.02	-0.24	-0.21	0	0	0	0	0	0
7/13/2024 13:34	52006	LING_T2	5	5	0	0.54	0.64	0.1	0	0	0	0	0	0	0	0
7/13/2024 13:34	52002	LING_T2	1	10	9	0.1	0.17	0.07	0	0	0	0	0	0	0	0
7/13/2024 13:34	52004	LING_T2	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
7/13/2024 13:35	65601	QVIL_T2	1	9	8	0.4	0.42	0.02	0	0	0	0	0	0	0	0
7/13/2024 13:35	65603	QVIL_T2	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
7/13/2024 13:36	66505	SMAN_T2	16	16	0	0.32	0.2	-0.12	0	0	0	0	0	0	0	0
7/13/2024 13:36	66504	SMAN_T2	2	0	-2	0.15	0	-0.15	-0.23	-0.31	0	0	0	0	0	0
7/13/2024 13:36	66502	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/13/2024 13:38	66504	SMAN_T2	2	0	-2	0.15	0	-0.15	-0.45	-0.62	0	0	0	0	0	0
7/13/2024 13:38	66505	SMAN_T2	16	16	0	0.32	0.2	-0.12	0	0	0	0	0	0	0	0
7/13/2024 13:38	66502	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/13/2024 13:39	24902	WHHA_T1	143	168	25	0.8	0.84	0.04	0.49	0.52	0	0	0	0	0	0
7/13/2024 13:39	24901	WHHA_T1	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
7/13/2024 13:41	11502	FREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 13:41	11505	FREE_T1	2	2	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/13/2024 13:41	67605	WARW_T1	1	1	0	0.2	0.4	0.2	-0.63	-0.65	0	0	0	0	0	0
7/13/2024 13:41	11504	FREE_T1	0	7	7	0	0	0	-1.46	-1.42	2	2	0	2100	2100	0
7/13/2024 13:42	60901	DONG_T2	14	20	6	1.56	0.51	-1.05	0	0	0	0	0	0	0	0
7/13/2024 13:42	60904	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/13/2024 13:42	60903	DONG_T2	3	0	-3	0.57	0	-0.57	0	0	0	0	0	0	0	0
7/13/2024 13:42	60902	DONG_T2	2	2	0	0.6	0	-0.6	0.66	0.72	0	0	0	0	0	0
7/13/2024 13:43	67605	WARW_T1	1	1	0	0.2	0.4	0.2	-0.63	-0.65	0	0	0	0	0	0
7/13/2024 13:44	67703	WERN_T2	2	0	-2	0.2	0	-0.2	-0.02	-0.02	2	2	0	1800	1800	0
7/13/2024 13:45	47104	MARL_T1	14	30	16	0.55	0.63	0.08	0	0	0	0	0	0	0	0
7/13/2024 13:45	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/13/2024 13:45	47101	MARL_T1	123	213	90	1.1	0.94	-0.16	-1.33	-1.12	2	2	0	1200	1200	0
7/13/2024 13:46	20601	GRWO_T2	109	134	25	1.02	0.98	-0.04	0.34	0.35	0	0	0	0	0	0
7/13/2024 13:47	64801	MONE_T2	13	46	33	0.32	0.42	0.1	0	0	0	0	0	0	0	0
7/13/2024 13:47	15701	TANN_T1	1	2	1	3	3.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 13:47	15704	TANN_T1	184	177	-7	0.69	0.52	-0.17	0	0	0	0	0	0	0	0
7/13/2024 13:47	64802	MONE_T2	1	0	-1	0.1	0	-0.1	-0.86	-0.88	0	0	0	0	0	0
7/13/2024 13:48	16406	MOPO_T1	0	0	0	0	0	0	-0.83	-0.88	2	2	0	2100	2100	0
7/13/2024 13:48	16402	MOPO_T1	10	16	6	0.67	0.46	-0.21	0	0	0	0	0	0	0	0
7/13/2024 13:49	52002	LING_T2	6	12	6	0.17	0.7	0.53	0	0	0	0	0	0	0	0
7/13/2024 13:49	52006	LING_T2	5	6	1	0.78	0.64	-0.14	0	0	0	0	0	0	0	0
7/13/2024 13:49	52004	LING_T2	0	2	2	0	0	0	0.25	0.25	0	0	0	0	0	0
7/13/2024 13:53	67605	WARW_T1	1	1	0	0.3	0.8	0.5	-0.65	-0.7	0	0	0	0	0	0
7/13/2024 13:53	56501	ROCK_T2	6	5	-1	0.52	1.03	0.51	0	0	0	0	0	0	0	0
7/13/2024 13:53	56504	ROCK_T2	11	12	1	0.47	0.3	-0.17	0.61	0.62	0	0	0	0	0	0
7/13/2024 13:55	42701	AUGU_T1	78	81	3	1.43	1.52	0.09	0	0	2	2	0	1800	1800	0
7/13/2024 13:56	67605	WARW_T1	1	1	0	0.3	0.8	0.5	-0.65	-0.7	0	0	0	0	0	0
7/13/2024 13:57	21206	ECAR_T2	38	91	53	1.06	1	-0.06	0.54	0.57	0	0	0	0	0	0
7/13/2024 13:57	67605	WARW_T1	1	1	0	0.3	0.8	0.5	-0.65	-0.7	0	0	0	0	0	0
7/13/2024 13:57	21204	ECAR_T2	1	2	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 13:58	11804	FRAN_T1	248	249	1	1.93	2.24	0.31	0.8	0.83	0	0	0	0	0	0
7/13/2024 13:58	11805	FRAN_T1	2	5	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/13/2024 13:58	11802	FRAN_T1	1	22	21	0.1	0.1	0	0	0	0	0	0	0	0	0
7/13/2024 14:06	64101	REFR_T1	12	12	0	2.37	2.07	-0.3	1.36	1.46	0	0	0	0	0	0
7/13/2024 14:10	20403	ASHF_T2	10	29	19	0.31	0.15	-0.16	0.24	0.28	0	0	0	0	0	0
7/13/2024 14:10	20401	ASHF_T2	41	37	-4	0.62	0.57	-0.05	0	0	0	0	0	0	0	0
7/13/2024 14:10	20402	ASHF_T2	51	77	26	0.84	0.87	0.03	0	0	0	0	0	0	0	0
7/13/2024 14:11	45602	WOOL_T1	2	2	0	0.1	0.65	0.55	-0.06	-0.06	1	1	0	900	900	0
7/13/2024 14:13	20401	ASHF_T2	41	37	-4	0.62	0.57	-0.05	0	0	0	0	0	0	0	0
7/13/2024 14:13	20402	ASHF_T2	51	77	26	0.84	0.87	0.03	0	0	0	0	0	0	0	0
7/13/2024 14:13	20403	ASHF_T2	10	29	19	0.31	0.15	-0.16	0.24	0.28	0	0	0	0	0	0
7/13/2024 14:14	52404	GRPA_T2	3	3	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/13/2024 14:14	52403	GRPA_T2	47	52	5	0.78	0.74	-0.04	-0.66	-0.62	0	0	0	0	0	0
7/13/2024 14:14	52402	GRPA_T2	68	91	23	0.54	0.47	-0.07	0	0	0	0	0	0	0	0
7/13/2024 14:14	52401	GRPA_T2	34	86	52	0.34	0.52	0.18	0	0	0	0	0	0	0	0
7/13/2024 14:17	22903	HARW_T1	22	22	0	1.16	1.1	-0.06	0	0	0	0	0	0	0	0
7/13/2024 14:17	22905	HARW_T1	28	63	35	0.47	0.53	0.06	-0.35	-0.33	0	0	0	0	0	0
7/13/2024 14:17	22901	HARW_T1	39	47	8	1.08	0.61	-0.47	0	0	0	0	0	0	0	0
7/13/2024 14:18	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/13/2024 14:18	65205	PRIN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/13/2024 14:20	43202	MVIL_T2	3	1	-2	0.33	0	-0.33	-0.9	-0.9	0	0	0	0	0	0
7/13/2024 14:20	43201	MVIL_T2	19	36	17	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
7/13/2024 14:21	43201	MVIL_T2	19	36	17	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
7/13/2024 14:21	43202	MVIL_T2	3	1	-2	0.33	0	-0.33	-0.45	-0.42	0	0	0	0	0	0
7/13/2024 14:24	20401	ASHF_T2	26	39	13	0.62	0.49	-0.13	0	0	0	0	0	0	0	0
7/13/2024 14:24	20403	ASHF_T2	3	55	52	0.47	0.39	-0.08	0.28	0.24	0	0	0	0	0	0
7/13/2024 14:24	20402	ASHF_T2	45	103	58	0.9	0.69	-0.21	0	0	0	0	0	0	0	0
7/13/2024 14:26	20402	ASHF_T2	45	103	58	0.9	0.69	-0.21	0	0	0	0	0	0	0	0
7/13/2024 14:26	20401	ASHF_T2	26	39	13	0.62	0.49	-0.13	0	0	0	0	0	0	0	0
7/13/2024 14:26	20403	ASHF_T2	3	55	52	0.47	0.39	-0.08	0.28	0.24	0	0	0	0	0	0
7/13/2024 14:27	20402	ASHF_T2	45	103	58	0.9	0.69	-0.21	0	0	0	0	0	0	0	0
7/13/2024 14:27	20401	ASHF_T2	26	39	13	0.62	0.49	-0.13	0	0	0	0	0	0	0	0
7/13/2024 14:27	20403	ASHF_T2	3	55	52	0.47	0.39	-0.08	0.28	0.24	0	0	0	0	0	0
7/13/2024 14:28	52402	GRPA_T2	37	91	54	0.48	0.55	0.07	0	0	0	0	0	0	0	0
7/13/2024 14:28	52401	GRPA_T2	60	90	30	0.53	0.67	0.14	0	0	0	0	0	0	0	0
7/13/2024 14:28	52404	GRPA_T2	3	5	2	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
7/13/2024 14:28	52403	GRPA_T2	51	61	10	0.81	0.77	-0.04	-0.62	-0.62	0	0	0	0	0	0
7/13/2024 14:30	21901	HUMB_T1	2	2	0	0.4	0.8	0.4	-2.69	-2.57	0	0	0	0	0	0
7/13/2024 14:32	40101	HUNT_T2	231	254	23	0.67	0.55	-0.12	-0.16	-0.15	0	0	0	0	0	0
7/13/2024 14:34	42902	MIDD_T2	27	27	0	1.4	0.93	-0.47	-0.11	-0.11	0	0	0	0	0	0
7/13/2024 14:34	42901	MIDD_T2	4	4	0	0.53	0.87	0.34	0	0	0	0	0	0	0	0
7/13/2024 14:34	42903	MIDD_T2	2	2	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
7/13/2024 14:36	64101	REFR_T1	11	17	6	2.77	3.22	0.45	0.74	0.77	0	0	0	0	0	0
7/13/2024 14:36	44203	POIN_T2	25	30	5	1.23	0.99	-0.24	-0.1	-0.01	2	2	0	2100	2100	0
7/13/2024 14:36	56504	ROCK_T2	5	19	14	0.36	0.51	0.15	0	0	0	0	0	0	0	0
7/13/2024 14:36	56501	ROCK_T2	2	2	0	1.05	0.9	-0.15	-1.93	-1.97	0	0	0	0	0	0
7/13/2024 14:37	45602	WOOL_T1	2	1	-1	0.65	0.4	-0.25	-0.01	0	1	1	0	900	900	0
7/13/2024 14:37	57401	SPAN_T1	33	157	124	0.27	0.37	0.1	-0.85	-0.79	1	1	0	600	600	0
7/13/2024 14:37	57403	SPAN_T1	6	14	8	0.78	0.4	-0.38	0	0	0	0	0	0	0	0
7/13/2024 14:37	56504	ROCK_T2	5	19	14	0.36	0.51	0.15	0	0	0	0	0	0	0	0
7/13/2024 14:37	44203	POIN_T2	25	30	5	1.23	0.99	-0.24	-0.1	-0.01	2	2	0	2100	2100	0
7/13/2024 14:37	45601	WOOL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 14:37	56501	ROCK_T2	2	2	0	1.05	0.9	-0.15	-3.94	-3.88	0	0	0	0	0	0
7/13/2024 14:38	56501	ROCK_T2	2	2	0	1.05	0.9	-0.15	-1.97	-1.94	0	0	0	0	0	0
7/13/2024 14:38	56504	ROCK_T2	5	19	14	0.36	0.51	0.15	0	0	0	0	0	0	0	0
7/13/2024 14:40	56504	ROCK_T2	5	19	14	0.36	0.51	0.15	0	0	0	0	0	0	0	0
7/13/2024 14:40	56501	ROCK_T2	2	2	0	1.05	0.9	-0.15	-1.97	-1.94	0	0	0	0	0	0
7/13/2024 14:41	56504	ROCK_T2	5	19	14	0.36	0.51	0.15	0	0	0	0	0	0	0	0
7/13/2024 14:41	56501	ROCK_T2	2	2	0	1.05	0.9	-0.15	-1.97	-1.94	0	0	0	0	0	0
7/13/2024 14:42	58802	COCO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/13/2024 14:42	58801	COCO_T2	0	0	0	0	0	0	-1.33	-1.37	2	2	0	2400	2400	0
7/13/2024 14:43	60803	BUCK_T1	0	0	0	0	0	0	-0.71	-0.74	1	1	0	600	600	0
7/13/2024 14:46	64305	LINC_T1	1	1	0	0.4	0.6	0.2	-0.57	-0.49	0	0	0	0	0	0
7/13/2024 14:46	64201	KINZ_T1	0	0	0	0	0	0	-0.45	-0.45	4	4	0	2100	2100	0
7/13/2024 14:46	64202	KINZ_T1	2	14	12	0.35	0.43	0.08	0	0	0	0	0	0	0	0
7/13/2024 14:46	64204	KINZ_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/13/2024 14:46	64203	KINZ_T1	2	1	-1	1.5	1.5	0	0	0	0	0	0	0	0	0
7/13/2024 14:48	47101	MARL_T1	254	297	43	1.04	1.16	0.12	-0.55	-0.57	1	1	0	600	600	0
7/13/2024 14:48	47104	MARL_T1	25	29	4	0.44	0.49	0.05	0	0	0	0	0	0	0	0
7/13/2024 14:50	64101	REFR_T1	14	15	1	2.89	3.15	0.26	1.48	1.55	0	0	0	0	0	0
7/13/2024 14:51	64101	REFR_T1	14	15	1	2.89	3.15	0.26	0.77	0.22	0	0	0	0	0	0
7/13/2024 14:51	66703	STRA_T1	30	57	27	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
7/13/2024 14:51	47104	MARL_T1	25	29	4	0.44	0.49	0.05	0	0	0	0	0	0	0	0
7/13/2024 14:51	66702	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 14:51	66701	STRA_T1	45	59	14	0.66	1.49	0.83	0.89	0.96	1	1	0	600	600	0
7/13/2024 14:51	47101	MARL_T1	254	297	43	1.04	1.16	0.12	-1.1	-1.15	2	2	0	1200	1200	0
7/13/2024 14:52	64101	REFR_T1	14	15	1	2.89	3.15	0.26	0.77	0.22	0	0	0	0	0	0
7/13/2024 14:53	42701	AUGU_T1	84	104	20	2.12	2.41	0.29	0	0	2	2	0	1800	1800	0
7/13/2024 14:53	56501	ROCK_T2	2	4	2	1.15	0.8	-0.35	-3.88	-3.88	0	0	0	0	0	0
7/13/2024 14:53	55408	SHER_T2	12	28	16	0.6	0.64	0.04	-0.94	-0.94	1	1	0	1200	1200	0
7/13/2024 14:53	56504	ROCK_T2	8	31	23	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
7/13/2024 14:53	55402	SHER_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/13/2024 14:54	56501	ROCK_T2	2	4	2	1.15	0.8	-0.35	-1.94	-1.94	0	0	0	0	0	0
7/13/2024 14:54	56504	ROCK_T2	8	31	23	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
7/13/2024 14:54	61102	BERK_T5	0	0	0	0	0	0	0.25	-0.09	2	2	0	1200	1200	0
7/13/2024 14:54	61101	BERK_T5	9	13	4	1.14	1.65	0.51	0	0	0	0	0	0	0	0
7/13/2024 14:55	20403	ASHF_T2	53	52	-1	0.44	0.64	0.2	0.25	0.26	0	0	0	0	0	0
7/13/2024 14:55	20401	ASHF_T2	36	28	-8	0.6	0.51	-0.09	0	0	0	0	0	0	0	0
7/13/2024 14:55	20402	ASHF_T2	96	73	-23	0.62	0.77	0.15	0	0	0	0	0	0	0	0
7/13/2024 14:55	61101	BERK_T5	9	13	4	1.14	1.65	0.51	0	0	0	0	0	0	0	0
7/13/2024 14:55	66701	STRA_T1	45	59	14	0.66	1.49	0.83	0.89	0.96	1	1	0	600	600	0
7/13/2024 14:55	66702	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 14:55	66703	STRA_T1	30	57	27	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
7/13/2024 14:55	61102	BERK_T5	0	0	0	0	0	0	0.25	-0.09	2	2	0	1200	1200	0
7/13/2024 14:56	42701	AUGU_T1	84	104	20	2.12	2.41	0.29	0	0	2	2	0	1800	1800	0
7/13/2024 14:57	61102	BERK_T5	0	0	0	0	0	0	0.25	-0.09	2	2	0	1200	1200	0
7/13/2024 14:57	20401	ASHF_T2	36	28	-8	0.6	0.51	-0.09	0	0	0	0	0	0	0	0
7/13/2024 14:57	20403	ASHF_T2	53	52	-1	0.44	0.64	0.2	0.25	0.26	0	0	0	0	0	0
7/13/2024 14:57	20402	ASHF_T2	96	73	-23	0.62	0.77	0.15	0	0	0	0	0	0	0	0
7/13/2024 14:57	61101	BERK_T5	9	13	4	1.14	1.65	0.51	0	0	0	0	0	0	0	0
7/13/2024 14:58	52403	GRPA_T2	61	89	28	1.05	1.53	0.48	0	0	0	0	0	0	0	0
7/13/2024 14:58	61102	BERK_T5	0	0	0	0	0	0	0.25	-0.09	2	2	0	1200	1200	0
7/13/2024 14:58	52401	GRPA_T2	87	98	11	0.77	0.49	-0.28	0	0	0	0	0	0	0	0
7/13/2024 14:58	61101	BERK_T5	9	13	4	1.14	1.65	0.51	0	0	0	0	0	0	0	0
7/13/2024 14:58	52402	GRPA_T2	67	76	9	0.58	0.59	0.01	-0.51	-0.51	0	0	0	0	0	0
7/13/2024 14:58	52404	GRPA_T2	5	25	20	0.44	0.25	-0.19	0	0	0	0	0	0	0	0
7/13/2024 14:59	46206	DANV_T2	83	98	15	1.13	1.08	-0.05	0	0	0	0	0	0	0	0
7/13/2024 14:59	46203	DANV_T2	0	2	2	0	0.1	0.1	-2.12	-2.08	0	0	0	0	0	0
7/13/2024 14:59	46204	DANV_T2	150	173	23	0.82	1.18	0.36	0	0	0	0	0	0	0	0
7/13/2024 14:59	46205	DANV_T2	6	9	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/13/2024 15:00	52401	GRPA_T2	89	125	36	0.82	0.48	-0.34	0	0	0	0	0	0	0	0
7/13/2024 15:00	52402	GRPA_T2	76	79	3	0.59	0.6	0.01	-0.51	-0.51	0	0	0	0	0	0
7/13/2024 15:00	52403	GRPA_T2	73	94	21	1.51	1.15	-0.36	0	0	0	0	0	0	0	0
7/13/2024 15:00	52404	GRPA_T2	3	27	24	0.23	0.4	0.17	0	0	0	0	0	0	0	0
7/13/2024 15:01	64201	KINZ_T1	0	14	14	0	0	0	-0.45	-0.42	4	4	0	2100	2100	0
7/13/2024 15:01	65503	MOJO_T2	8	9	1	0.79	0.72	-0.07	0.24	0.23	1	1	0	900	900	0
7/13/2024 15:01	64202	KINZ_T1	6	31	25	0.43	0.52	0.09	0	0	0	0	0	0	0	0
7/13/2024 15:01	64204	KINZ_T1	1	4	3	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
7/13/2024 15:01	64203	KINZ_T1	1	2	1	1.5	2.1	0.6	0	0	0	0	0	0	0	0
7/13/2024 15:02	46203	DANV_T2	1	3	2	0.1	0.6	0.5	-2.12	-2.08	0	0	0	0	0	0
7/13/2024 15:02	46206	DANV_T2	96	102	6	1.22	1.08	-0.14	0	0	0	0	0	0	0	0
7/13/2024 15:02	46205	DANV_T2	7	9	2	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
7/13/2024 15:02	46204	DANV_T2	155	184	29	1.18	1.19	0.01	0	0	0	0	0	0	0	0
7/13/2024 15:03	40101	HUNT_T2	180	197	17	0.54	0.45	-0.09	-0.18	-0.26	0	0	0	0	0	0
7/13/2024 15:04	47402	PENS_T1	6	4	-2	0.82	0	-0.82	0	0	0	0	0	0	0	0
7/13/2024 15:04	47401	PENS_T1	16	16	0	0.68	0.7	0.02	1.63	1.59	0	0	0	0	0	0
7/13/2024 15:05	47104	MARL_T1	28	27	-1	0.46	1.2	0.74	0	0	0	0	0	0	0	0
7/13/2024 15:05	65503	MOJO_T2	8	9	1	0.79	0.72	-0.07	0.24	0.23	1	1	0	900	900	0
7/13/2024 15:05	47101	MARL_T1	234	370	136	1.15	1.21	0.06	-0.57	-0.57	1	1	0	600	600	0
7/13/2024 15:07	47402	PENS_T1	6	4	-2	0.82	0	-0.82	0	0	0	0	0	0	0	0
7/13/2024 15:07	47401	PENS_T1	16	16	0	0.68	0.7	0.02	1.59	0.45	0	0	0	0	0	0
7/13/2024 15:08	64101	REFR_T1	15	11	-4	2.61	2.87	0.26	0.22	0.24	0	0	0	0	0	0
7/13/2024 15:09	56504	ROCK_T2	18	29	11	0.45	0.46	0.01	0	0	0	0	0	0	0	0
7/13/2024 15:09	56501	ROCK_T2	2	6	4	0.8	0.83	0.03	-5.82	-5.79	0	0	0	0	0	0
7/13/2024 15:14	56504	ROCK_T2	18	29	11	0.45	0.46	0.01	0	0	0	0	0	0	0	0
7/13/2024 15:14	56501	ROCK_T2	2	6	4	0.8	0.83	0.03	-1.94	-1.93	0	0	0	0	0	0
7/13/2024 15:15	52403	GRPA_T2	86	91	5	1.53	0.75	-0.78	0	0	0	0	0	0	0	0
7/13/2024 15:15	52401	GRPA_T2	88	128	40	0.5	0.7	0.2	-0.58	-0.56	0	0	0	0	0	0
7/13/2024 15:15	52402	GRPA_T2	28	87	59	0.63	0.57	-0.06	0	0	0	0	0	0	0	0
7/13/2024 15:15	52404	GRPA_T2	24	24	0	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
7/13/2024 15:17	52402	GRPA_T2	28	87	59	0.63	0.57	-0.06	0	0	0	0	0	0	0	0
7/13/2024 15:17	52401	GRPA_T2	88	128	40	0.5	0.7	0.2	-0.58	-0.56	0	0	0	0	0	0
7/13/2024 15:17	52404	GRPA_T2	24	24	0	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
7/13/2024 15:17	52403	GRPA_T2	86	91	5	1.53	0.75	-0.78	0	0	0	0	0	0	0	0
7/13/2024 15:19	51003	NHAR_T1	0	6	6	0	0	0	-2.51	-2.51	1	1	0	1200	1200	0
7/13/2024 15:19	51004	NHAR_T1	7	8	1	1.64	1.54	-0.1	0	0	0	0	0	0	0	0
7/13/2024 15:20	65501	MOJO_T1	0	0	0	0	0	0	-0.65	-0.72	1	1	0	900	900	0
7/13/2024 15:22	59101	WALK_T2	2	2	0	0.45	0.6	0.15	0.09	0.19	1	1	0	600	600	0
7/13/2024 15:23	56501	ROCK_T2	4	4	0	0.75	0.78	0.03	-1.93	-1.89	0	0	0	0	0	0
7/13/2024 15:23	56504	ROCK_T2	26	31	5	0.53	0.51	-0.02	0	0	0	0	0	0	0	0
7/13/2024 15:23	59101	WALK_T2	2	2	0	0.45	0.6	0.15	0.18	0.37	2	2	0	1200	1200	0
7/13/2024 15:24	59101	WALK_T2	2	2	0	0.45	0.6	0.15	0.18	0.37	2	2	0	1200	1200	0
7/13/2024 15:24	56801	BENV_T1	6	9	3	0.95	1.03	0.08	-1.08	-1	4	4	0	2400	2400	0
7/13/2024 15:24	10603	BLGL_T1	194	282	88	1.65	1.69	0.04	-0.39	-0.4	0	0	0	0	0	0
7/13/2024 15:24	14401	SSLA_T1	3	8	5	0.7	0.37	-0.33	0	0	0	0	0	0	0	0
7/13/2024 15:24	14403	SSLA_T1	11	13	2	0.78	0.87	0.09	0	0	0	0	0	0	0	0
7/13/2024 15:24	14404	SSLA_T1	82	115	33	0.91	0.8	-0.11	0.25	0.22	1	1	0	900	900	0
7/13/2024 15:24	44302	BEAV_T2	2	1	-1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
7/13/2024 15:24	44301	BEAV_T2	96	95	-1	1.41	1.38	-0.03	-0.75	-0.78	1	1	0	600	600	0
7/13/2024 15:24	56803	BENV_T1	9	10	1	1.36	1.4	0.04	0	0	0	0	0	0	0	0
7/13/2024 15:24	10601	BLGL_T1	24	43	19	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
7/13/2024 15:25	56504	ROCK_T2	26	31	5	0.53	0.51	-0.02	0	0	0	0	0	0	0	0
7/13/2024 15:25	56501	ROCK_T2	4	4	0	0.75	0.78	0.03	-1.93	-1.89	0	0	0	0	0	0
7/13/2024 15:26	56501	ROCK_T2	4	4	0	0.75	0.78	0.03	-1.93	-1.89	0	0	0	0	0	0
7/13/2024 15:26	56504	ROCK_T2	26	31	5	0.53	0.51	-0.02	0	0	0	0	0	0	0	0
7/13/2024 15:27	56803	BENV_T1	9	10	1	1.36	1.4	0.04	0	0	0	0	0	0	0	0
7/13/2024 15:27	56801	BENV_T1	6	9	3	0.95	1.03	0.08	-1.08	-1	4	4	0	2400	2400	0
7/13/2024 15:28	56803	BENV_T1	9	10	1	1.36	1.4	0.04	-0.36	-0.35	1	1	0	600	600	0
7/13/2024 15:28	56801	BENV_T1	6	9	3	0.95	1.03	0.08	-2.16	-2.01	8	8	0	4800	4800	0
7/13/2024 15:29	44301	BEAV_T2	96	95	-1	1.41	1.38	-0.03	-0.75	-0.78	1	1	0	600	600	0
7/13/2024 15:29	40101	HUNT_T2	124	252	128	0.46	0.49	0.03	-0.4	-0.39	0	0	0	0	0	0
7/13/2024 15:29	44302	BEAV_T2	2	1	-1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
7/13/2024 15:30	12304	LANA_T2	136	159	23	0.82	0.92	0.1	0	0	0	0	0	0	0	0
7/13/2024 15:30	12305	LANA_T2	41	45	4	0.68	0.82	0.14	0	0	0	0	0	0	0	0
7/13/2024 15:30	12301	LANA_T2	1	3	2	2.1	1.45	-0.65	-1.77	-1.73	1	1	0	1200	1200	0
7/13/2024 15:30	12302	LANA_T2	15	38	23	0.37	0.28	-0.09	-1.45	-1.45	3	3	0	2700	2700	0
7/13/2024 15:34	47401	PENS_T1	12	14	2	0.58	0.73	0.15	0.89	1.33	0	0	0	0	0	0
7/13/2024 15:34	40101	HUNT_T2	190	228	38	0.54	0.53	-0.01	-0.4	-0.39	0	0	0	0	0	0
7/13/2024 15:35	65603	QVIL_T2	0	0	0	0	0	0	-0.15	-0.4	0	0	0	0	0	0
7/13/2024 15:35	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 15:35	42903	MIDD_T2	3	3	0	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
7/13/2024 15:35	42902	MIDD_T2	27	27	0	1.83	1	-0.83	-0.08	-0.06	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/13/2024 15:35	47401	PENS_T1	12	14	2	0.58	0.73	0.15	0.89	1.33	0	0	0	0	0	0
7/13/2024 15:35	42901	MIDD_T2	4	9	5	0.75	1.37	0.62	0	0	0	0	0	0	0	0
7/13/2024 15:35	65604	QVIL_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 15:35	65601	QVIL_T2	34	42	8	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
7/13/2024 15:36	47401	PENS_T1	12	14	2	0.58	0.73	0.15	1.33	1.45	0	0	0	0	0	0
7/13/2024 15:38	64101	REFR_T1	11	11	0	2.87	2.93	0.06	0.41	0.43	0	0	0	0	0	0
7/13/2024 15:38	14802	TREI_T2	11	10	-1	0.45	0.48	0.03	0	0	0	0	0	0	0	0
7/13/2024 15:38	14801	TREI_T2	438	440	2	2.89	2.83	-0.06	0	0	0	0	0	0	0	0
7/13/2024 15:39	64101	REFR_T1	11	11	0	2.87	2.93	0.06	0.21	0.22	0	0	0	0	0	0
7/13/2024 15:40	45601	WOOL_T1	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/13/2024 15:40	42701	AUGU_T1	105	120	15	2.44	2.24	-0.2	0	0	2	2	0	1800	1800	0
7/13/2024 15:40	61701	ELIZ_T1	2	3	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/13/2024 15:40	45602	WOOL_T1	2	11	9	0.35	0.26	-0.09	0.01	0.06	1	1	0	900	900	0
7/13/2024 15:40	61703	ELIZ_T1	3	9	6	0.17	0	-0.17	-2.13	-2.1	2	2	0	2100	2100	0
7/13/2024 15:42	61703	ELIZ_T1	3	9	6	0.17	0	-0.17	-2.13	-2.1	2	2	0	2100	2100	0
7/13/2024 15:42	61701	ELIZ_T1	2	3	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/13/2024 15:43	61701	ELIZ_T1	2	3	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/13/2024 15:43	61703	ELIZ_T1	3	9	6	0.17	0	-0.17	-4.26	-4.2	4	4	0	4200	4200	0
7/13/2024 15:44	61701	ELIZ_T1	2	3	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/13/2024 15:44	61703	ELIZ_T1	3	9	6	0.17	0	-0.17	-2.13	-2.1	2	2	0	2100	2100	0
7/13/2024 15:49	52004	LING_T2	3	5	2	0.37	0.83	0.46	0.3	0.29	0	0	0	0	0	0
7/13/2024 15:49	52006	LING_T2	5	8	3	0.66	0.64	-0.02	0	0	0	0	0	0	0	0
7/13/2024 15:49	52002	LING_T2	11	56	45	0.34	0.51	0.17	0	0	0	0	0	0	0	0
7/13/2024 15:51	41902	REED_T1	77	82	5	0.58	0.48	-0.1	-0.36	-0.36	1	1	0	900	900	0
7/13/2024 15:51	41901	REED_T1	2	4	2	0.15	0.5	0.35	0	0	0	0	0	0	0	0
7/13/2024 15:52	56501	ROCK_T2	4	5	1	0.8	1.1	0.3	-1.88	-1.85	0	0	0	0	0	0
7/13/2024 15:52	56504	ROCK_T2	28	36	8	0.63	0.46	-0.17	0	0	0	0	0	0	0	0
7/13/2024 15:53	41902	REED_T1	77	82	5	0.58	0.48	-0.1	-0.36	-0.31	1	1	0	900	900	0
7/13/2024 15:53	41901	REED_T1	2	4	2	0.15	0.5	0.35	0	0	0	0	0	0	0	0
7/13/2024 15:53	64101	REFR_T1	11	14	3	2.93	3.14	0.21	0.22	0.26	0	0	0	0	0	0
7/13/2024 15:54	64101	REFR_T1	11	14	3	2.93	3.14	0.21	0.22	0.26	0	0	0	0	0	0
7/13/2024 15:56	62102	ELAN_T1	0	0	0	0	0	0	0.03	-0.08	0	0	0	0	0	0
7/13/2024 15:56	61701	ELIZ_T1	2	3	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
7/13/2024 15:56	61703	ELIZ_T1	0	35	35	0	0.2	0.2	-2.1	-1.87	2	2	0	2100	2100	0
7/13/2024 15:56	62105	ELAN_T1	3	4	1	0.63	0.63	0	0	0	0	0	0	0	0	0
7/13/2024 15:56	42701	AUGU_T1	118	110	-8	2.23	2.25	0.02	0	0	2	2	0	1800	1800	0
7/13/2024 15:57	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 15:57	61701	ELIZ_T1	2	3	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
7/13/2024 15:57	61703	ELIZ_T1	0	35	35	0	0.2	0.2	-2.1	-1.87	2	2	0	2100	2100	0
7/13/2024 15:57	61304	EARL_T1	0	0	0	0	0	0	0.53	0.51	1	1	0	600	600	0
7/13/2024 15:59	61703	ELIZ_T1	0	35	35	0	0.2	0.2	-4.2	-3.74	4	4	0	4200	4200	0
7/13/2024 15:59	46803	HEPB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 15:59	46801	HEPB_T2	12	50	38	0.26	0.39	0.13	1.13	1.07	0	0	0	0	0	0
7/13/2024 15:59	61701	ELIZ_T1	2	3	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
7/13/2024 16:00	61703	ELIZ_T1	9	35	26	0.2	0.28	0.08	-2.1	-1.87	2	2	0	2100	2100	0
7/13/2024 16:00	61701	ELIZ_T1	3	1	-2	0.57	0	-0.57	0	0	0	0	0	0	0	0
7/13/2024 16:05	53802	MBRG_T2	1	0	-1	0.3	0	-0.3	-0.08	-0.03	0	0	0	0	0	0
7/13/2024 16:05	66703	STRA_T1	81	120	39	0.51	0.55	0.04	-0.48	-0.54	0	0	0	0	0	0
7/13/2024 16:05	66701	STRA_T1	38	47	9	0.88	0.8	-0.08	0	0	0	0	0	0	0	0
7/13/2024 16:06	66701	STRA_T1	38	47	9	0.88	0.8	-0.08	0	0	0	0	0	0	0	0
7/13/2024 16:06	54603	SUMM_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 16:06	54602	SUMM_T2	11	34	23	0.59	0.61	0.02	0	0	0	0	0	0	0	0
7/13/2024 16:06	66703	STRA_T1	81	120	39	0.51	0.55	0.04	-0.54	-0.57	0	0	0	0	0	0
7/13/2024 16:06	54601	SUMM_T2	12	24	12	0.65	0.65	0	0	0	3	3	0	3000	3000	0
7/13/2024 16:07	56501	ROCK_T2	4	3	-1	0.8	0.15	-0.65	-1.85	-1.86	0	0	0	0	0	0
7/13/2024 16:07	56504	ROCK_T2	36	17	-19	0.46	0.53	0.07	0	0	0	0	0	0	0	0
7/13/2024 16:08	66703	STRA_T1	81	120	39	0.51	0.55	0.04	-0.54	-0.57	0	0	0	0	0	0
7/13/2024 16:08	54603	SUMM_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 16:08	66701	STRA_T1	38	47	9	0.88	0.8	-0.08	0	0	0	0	0	0	0	0
7/13/2024 16:08	54601	SUMM_T2	12	24	12	0.65	0.65	0	0	0	6	6	0	6000	6000	0
7/13/2024 16:08	54602	SUMM_T2	11	34	23	0.59	0.61	0.02	0	0	0	0	0	0	0	0
7/13/2024 16:09	54602	SUMM_T2	11	34	23	0.59	0.61	0.02	0	0	0	0	0	0	0	0
7/13/2024 16:09	54601	SUMM_T2	12	24	12	0.65	0.65	0	0	0	3	3	0	3000	3000	0
7/13/2024 16:09	45302	WBER_T2	15	35	20	0.61	0.67	0.06	1.72	1.72	0	0	0	0	0	0
7/13/2024 16:09	54603	SUMM_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 16:15	51401	LYKE_T1	0	1	1	0	0	0	0.61	0.57	0	0	0	0	0	0
7/13/2024 16:15	45302	WBER_T2	32	38	6	0.73	0.78	0.05	1.72	1.72	0	0	0	0	0	0
7/13/2024 16:16	44302	BEAV_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/13/2024 16:16	47001	HUGH_T2	17	39	22	1.88	1.18	-0.7	-0.46	-0.43	1	1	0	900	900	0
7/13/2024 16:16	44301	BEAV_T2	87	106	19	0.94	1.2	0.26	-0.73	-0.7	1	1	0	600	600	0
7/13/2024 16:16	47002	HUGH_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/13/2024 16:17	59002	MIFF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 16:17	47001	HUGH_T2	17	39	22	1.88	1.18	-0.7	-0.91	-0.87	2	2	0	1800	1800	0
7/13/2024 16:17	59003	MIFF_T1	3	7	4	1.7	1.22	-0.48	-0.44	-0.53	0	0	0	0	0	0
7/13/2024 16:17	55002	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 16:17	55001	NEWP_T1	50	63	13	1.34	1.21	-0.13	-0.04	-0.04	0	0	0	0	0	0
7/13/2024 16:17	47002	HUGH_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/13/2024 16:18	65902	SAKR_T2	0	1	1	0	0	0	-1.07	-1.07	2	2	0	1200	1200	0
7/13/2024 16:18	65903	SAKR_T2	1	2	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/13/2024 16:18	65901	SAKR_T2	5	11	6	1.22	0.84	-0.38	0	0	0	0	0	0	0	0
7/13/2024 16:20	60502	NMAN_T2	0	0	0	0	0	0	-0.64	-0.6	0	0	0	0	0	0
7/13/2024 16:20	60501	NMAN_T2	3	3	0	3.93	4.23	0.3	0	0	0	0	0	0	0	0
7/13/2024 16:21	65602	QVIL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/13/2024 16:21	65601	QVIL_T2	33	40	7	0.38	0.29	-0.09	0.44	0.48	1	1	0	900	900	0
7/13/2024 16:21	64101	REFR_T1	14	13	-1	2.79	2.4	-0.39	0.23	0.32	0	0	0	0	0	0
7/13/2024 16:21	65902	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 16:21	65901	SAKR_T2	5	11	6	1.22	0.84	-0.38	-0.13	-0.22	4	4	0	3000	3000	0
7/13/2024 16:21	65604	QVIL_T2	1	4	3	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/13/2024 16:21	65903	SAKR_T2	1	2	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/13/2024 16:22	55002	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 16:22	55001	NEWP_T1	50	63	13	1.34	1.21	-0.13	-0.04	-0.05	0	0	0	0	0	0
7/13/2024 16:23	54602	SUMM_T2	16	34	18	0.64	0.49	-0.15	0	0	0	0	0	0	0	0
7/13/2024 16:23	54603	SUMM_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 16:23	54601	SUMM_T2	12	33	21	0.67	0.68	0.01	0	0	3	3	0	3000	3000	0
7/13/2024 16:24	45302	WBER_T2	32	38	6	0.73	0.78	0.05	1.72	1.72	0	0	0	0	0	0
7/13/2024 16:25	45302	WBER_T2	32	38	6	0.73	0.78	0.05	1.72	1.72	0	0	0	0	0	0
7/13/2024 16:28	61702	ELIZ_T2	8	10	2	0.45	0.2	-0.25	-1.02	-1	2	2	0	1500	1500	0
7/13/2024 16:28	61704	ELIZ_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/13/2024 16:29	52401	GRPA_T2	133	200	67	0.99	1.09	0.1	0	0	0	0	0	0	0	0
7/13/2024 16:29	52402	GRPA_T2	72	93	21	0.54	0.76	0.22	0	0	0	0	0	0	0	0
7/13/2024 16:29	52404	GRPA_T2	11	78	67	0.54	0.69	0.15	0	0	0	0	0	0	0	0
7/13/2024 16:29	52403	GRPA_T2	86	125	39	1.47	1.36	-0.11	-0.55	-0.53	0	0	0	0	0	0
7/13/2024 16:32	52401	GRPA_T2	144	245	101	1.08	1.24	0.16	0	0	0	0	0	0	0	0
7/13/2024 16:32	52403	GRPA_T2	100	124	24	1.32	1.88	0.56	-0.55	-0.53	0	0	0	0	0	0
7/13/2024 16:32	52404	GRPA_T2	60	85	25	0.7	0.89	0.19	0	0	0	0	0	0	0	0
7/13/2024 16:32	52402	GRPA_T2	88	93	5	0.77	0.99	0.22	0	0	0	0	0	0	0	0
7/13/2024 16:36	27603	PIRI_T2	1	1	0	1.5	2	0.5	0	0	0	0	0	0	0	0
7/13/2024 16:36	27605	PIRI_T2	364	332	-32	0.98	0.98	0	1.4	1.41	0	0	0	0	0	0
7/13/2024 16:37	59101	WALK_T2	2	7	5	0.45	0.45	0	0.18	0.21	1	1	0	600	600	0
7/13/2024 16:37	27603	PIRI_T2	1	1	0	1.5	2	0.5	0	0	0	0	0	0	0	0
7/13/2024 16:37	27605	PIRI_T2	364	332	-32	0.98	0.98	0	1.41	1.38	0	0	0	0	0	0
7/13/2024 16:37	59102	WALK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 16:38	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 16:38	56504	ROCK_T2	9	25	16	1.03	0.9	-0.13	0	0	0	0	0	0	0	0
7/13/2024 16:38	56501	ROCK_T2	2	7	5	0.15	2.65	2.5	-1.8	-1.81	0	0	0	0	0	0
7/13/2024 16:42	16301	ALPA_T1	1	4	3	0.3	0	-0.3	1.25	1.25	0	0	0	0	0	0
7/13/2024 16:49	47402	PENS_T1	2	5	3	1.25	0.55	-0.7	0	0	0	0	0	0	0	0
7/13/2024 16:49	47401	PENS_T1	16	34	18	0.79	0.97	0.18	0.7	0.66	0	0	0	0	0	0
7/13/2024 16:50	58701	ROSE_T2	6	6	0	0.25	0.43	0.18	0	0	0	0	0	0	0	0
7/13/2024 16:50	47401	PENS_T1	16	34	18	0.79	0.97	0.18	1.4	1.33	0	0	0	0	0	0
7/13/2024 16:50	47402	PENS_T1	2	5	3	1.25	0.55	-0.7	0	0	0	0	0	0	0	0
7/13/2024 16:50	58705	ROSE_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/13/2024 16:50	65902	SAKR_T2	1	1	0	0.2	0.7	0.5	-1.04	-1.08	2	2	0	1200	1200	0
7/13/2024 16:50	65903	SAKR_T2	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
7/13/2024 16:50	65901	SAKR_T2	10	36	26	0.7	0.73	0.03	0	0	0	0	0	0	0	0
7/13/2024 16:50	65904	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 16:50	58702	ROSE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 16:50	58706	ROSE_T2	3	14	11	1.37	1.2	-0.17	0.32	0.32	1	1	0	600	600	0
7/13/2024 16:51	58706	ROSE_T2	3	14	11	1.37	1.2	-0.17	0	0	0	0	0	0	0	0
7/13/2024 16:51	47401	PENS_T1	16	34	18	0.79	0.97	0.18	0.66	0.4	0	0	0	0	0	0
7/13/2024 16:51	58702	ROSE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 16:51	58705	ROSE_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/13/2024 16:51	57401	SPAN_T1	13	1	-12	0.4	0.5	0.1	-3.67	-6.11	6	9	3	4500	7200	2700
7/13/2024 16:51	47402	PENS_T1	2	5	3	1.25	0.55	-0.7	0	0	0	0	0	0	0	0
7/13/2024 16:51	58701	ROSE_T2	6	6	0	0.25	0.43	0.18	0	0	0	0	0	0	0	0
7/13/2024 16:51	57403	SPAN_T1	10	5	-5	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
7/13/2024 16:51	58703	ROSE_T2	0	0	0	0	0	0	-0.99	-1.01	0	0	0	0	0	0
7/13/2024 16:52	65904	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 16:52	65903	SAKR_T2	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
7/13/2024 16:52	65902	SAKR_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
7/13/2024 16:52	57401	SPAN_T1	13	1	-12	0.4	0.5	0.1	-2.04	-2	3	3	0	2400	2400	0
7/13/2024 16:52	47401	PENS_T1	16	34	18	0.79	0.97	0.18	0.66	0.4	0	0	0	0	0	0
7/13/2024 16:52	57403	SPAN_T1	10	5	-5	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
7/13/2024 16:52	65901	SAKR_T2	10	36	26	0.7	0.73	0.03	-0.08	-0.05	2	2	0	1500	1500	0
7/13/2024 16:52	47402	PENS_T1	2	5	3	1.25	0.55	-0.7	0	0	0	0	0	0	0	0
7/13/2024 16:53	57401	SPAN_T1	13	1	-12	0.4	0.5	0.1	-2.04	-2	3	3	0	2400	2400	0
7/13/2024 16:53	65901	SAKR_T2	10	36	26	0.7	0.73	0.03	-0.08	-0.05	2	2	0	1500	1500	0
7/13/2024 16:53	57403	SPAN_T1	10	5	-5	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
7/13/2024 16:53	67604	WARW_T1	1	1	0	10	10	0	0	0	0	0	0	0	0	0
7/13/2024 16:53	65904	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 16:53	67605	WARW_T1	0	1	1	0	1	1	-0.36	-0.34	0	0	0	0	0	0
7/13/2024 16:53	65903	SAKR_T2	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
7/13/2024 16:53	65902	SAKR_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
7/13/2024 16:53	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/13/2024 16:53	59101	WALK_T2	2	9	7	0.45	0.47	0.02	0.21	0.2	1	1	0	600	600	0
7/13/2024 16:54	57401	SPAN_T1	13	1	-12	0.4	0.5	0.1	-4.07	-3.99	6	6	0	4800	4800	0
7/13/2024 16:54	57403	SPAN_T1	10	5	-5	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
7/13/2024 16:55	57403	SPAN_T1	10	5	-5	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
7/13/2024 16:55	67605	WARW_T1	0	1	1	0	1	1	-0.36	-0.34	0	0	0	0	0	0
7/13/2024 16:55	67604	WARW_T1	1	1	0	10	10	0	0	0	0	0	0	0	0	0
7/13/2024 16:55	57401	SPAN_T1	13	1	-12	0.4	0.5	0.1	-2.04	-2	3	3	0	2400	2400	0
7/13/2024 16:56	49804	UNIV_T1	2	3	1	0.65	0.75	0.1	0	0	0	0	0	0	0	0
7/13/2024 16:56	49803	UNIV_T1	0	4	4	0	0	0	-1.4	-1.39	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/13/2024 16:57	16002	DORN_T2	81	111	30	0.78	0.89	0.11	0.41	0.31	1	1	0	1200	1200	0
7/13/2024 16:57	16006	DORN_T2	21	33	12	1.95	1.66	-0.29	0	0	0	0	0	0	0	0
7/13/2024 16:58	67604	WARW_T1	1	1	0	10	10	0	0	0	0	0	0	0	0	0
7/13/2024 16:58	67605	WARW_T1	0	1	1	0	1	1	-0.36	-0.34	0	0	0	0	0	0
7/13/2024 16:59	67604	WARW_T1	1	1	0	10	10	0	0	0	0	0	0	0	0	0
7/13/2024 16:59	67605	WARW_T1	0	1	1	0	1	1	-0.36	-0.34	0	0	0	0	0	0
7/13/2024 17:00	58803	COCO_T1	116	167	51	0.45	0.55	0.1	-0.3	-0.26	1	1	0	600	600	0
7/13/2024 17:03	43202	MVIL_T2	13	16	3	1.14	1.18	0.04	-0.4	-0.4	0	0	0	0	0	0
7/13/2024 17:03	48302	ORWI_T2	170	193	23	0.94	0.84	-0.1	0.13	0.15	0	0	0	0	0	0
7/13/2024 17:03	43201	MVIL_T2	63	69	6	0.88	1.15	0.27	0	0	0	0	0	0	0	0
7/13/2024 17:03	48303	ORWI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/13/2024 17:04	44702	MUNC_T2	7	8	1	0.71	0.2	-0.51	0	0	0	0	0	0	0	0
7/13/2024 17:04	52003	LING_T1	15	16	1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
7/13/2024 17:04	44701	MUNC_T2	7	7	0	0.37	0.4	0.03	0	0	0	0	0	0	0	0
7/13/2024 17:04	52001	LING_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 17:04	43202	MVIL_T2	13	16	3	1.14	1.18	0.04	-0.4	-0.4	0	0	0	0	0	0
7/13/2024 17:04	43201	MVIL_T2	63	69	6	0.88	1.15	0.27	0	0	0	0	0	0	0	0
7/13/2024 17:04	44703	MUNC_T2	37	35	-2	0.55	0.67	0.12	0.55	0.52	0	0	0	0	0	0
7/13/2024 17:07	60504	NMAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 17:07	60501	NMAN_T2	3	3	0	3.73	2.93	-0.8	0	0	0	0	0	0	0	0
7/13/2024 17:07	60502	NMAN_T2	0	0	0	0	0	0	-0.51	-0.59	0	0	0	0	0	0
7/13/2024 17:09	45602	WOOL_T1	7	10	3	0.44	0.25	-0.19	0.09	0.09	1	1	0	900	900	0
7/13/2024 17:12	49804	UNIV_T1	2	3	1	0.75	0.57	-0.18	0	0	0	0	0	0	0	0
7/13/2024 17:12	49803	UNIV_T1	2	4	2	0.25	0.3	0.05	-1.39	-1.2	0	0	0	0	0	0
7/13/2024 17:15	15204	SFAR_T2	11	10	-1	1.05	0.84	-0.21	0	0	0	0	0	0	0	0
7/13/2024 17:15	15203	SFAR_T2	14	5	-9	0.57	0.1	-0.47	0	0	0	0	0	0	0	0
7/13/2024 17:16	40101	HUNT_T2	220	230	10	0.59	0.55	-0.04	-0.96	-0.93	0	0	0	0	0	0
7/13/2024 17:17	52404	GRPA_T2	96	116	20	1.07	1.37	0.3	0	0	0	0	0	0	0	0
7/13/2024 17:17	52401	GRPA_T2	257	292	35	1.35	1.46	0.11	-0.47	-0.48	0	0	0	0	0	0
7/13/2024 17:17	52402	GRPA_T2	104	117	13	2.03	1.37	-0.66	0	0	0	0	0	0	0	0
7/13/2024 17:17	52403	GRPA_T2	126	173	47	1.46	1.42	-0.04	-0.62	-0.54	0	0	0	0	0	0
7/13/2024 17:35	48302	ORWI_T2	186	167	-19	0.98	0.85	-0.13	0	0	0	0	0	0	0	0
7/13/2024 17:35	48303	ORWI_T2	0	0	0	0	0	0	0.96	1.01	0	0	0	0	0	0
7/13/2024 17:37	66505	SMAN_T2	76	105	29	0.42	0.43	0.01	0.39	0.52	4	4	0	2300	2300	0
7/13/2024 17:37	66503	SMAN_T2	17	20	3	0.72	0.76	0.04	0	0	0	0	0	0	0	0
7/13/2024 17:37	66504	SMAN_T2	25	25	0	0.69	0.44	-0.25	0	0	0	0	0	0	0	0
7/13/2024 17:43	58706	ROSE_T2	13	20	7	0.55	0.6	0.05	0	0	0	0	0	0	0	0
7/13/2024 17:43	58702	ROSE_T2	7	10	3	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
7/13/2024 17:43	58701	ROSE_T2	7	12	5	0.41	0.42	0.01	-1.34	-1.35	1	1	0	600	600	0
7/13/2024 17:43	58704	ROSE_T2	1	1	0	4.8	0	-4.8	0	0	0	0	0	0	0	0
7/13/2024 17:43	58705	ROSE_T2	4	3	-1	1.95	1.45	-0.5	0	0	0	0	0	0	0	0
7/13/2024 17:46	58402	MORO_T1	5	20	15	1.54	0.76	-0.78	-1.84	-1.84	5	5	0	3150	3150	0
7/13/2024 17:46	58401	MORO_T1	19	59	40	0.81	0.51	-0.3	0	0	0	0	0	0	0	0
7/13/2024 17:51	58706	ROSE_T2	12	18	6	0.88	0.73	-0.15	0	0	0	0	0	0	0	0
7/13/2024 17:51	58701	ROSE_T2	8	19	11	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
7/13/2024 17:51	58702	ROSE_T2	4	10	6	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/13/2024 17:51	58705	ROSE_T2	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
7/13/2024 17:51	58703	ROSE_T2	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
7/13/2024 17:51	58704	ROSE_T2	1	0	-1	3.2	0	-3.2	0	0	0	0	0	0	0	0
7/13/2024 17:53	58706	ROSE_T2	12	18	6	0.88	0.73	-0.15	0.35	0.29	1	1	0	600	600	0
7/13/2024 17:53	58702	ROSE_T2	4	10	6	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/13/2024 17:53	58704	ROSE_T2	1	0	-1	3.2	0	-3.2	0	0	0	0	0	0	0	0
7/13/2024 17:53	58705	ROSE_T2	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
7/13/2024 17:53	58701	ROSE_T2	8	19	11	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
7/13/2024 17:57	22101	EDEL_T2	0	0	0	0	0	0	1.8	1.82	1	1	0	1200	1200	0
7/13/2024 17:57	41602	CLEV_T1	197	172	-25	1.69	2.02	0.33	0	0	1	1	0	600	600	0
7/13/2024 17:59	46206	DANV_T2	119	173	54	1.11	1.05	-0.06	1.25	1.27	2	2	0	2100	2100	0
7/13/2024 17:59	46204	DANV_T2	160	170	10	1.26	1.55	0.29	0	0	0	0	0	0	0	0
7/13/2024 17:59	46205	DANV_T2	5	3	-2	0.26	0	-0.26	0	0	0	0	0	0	0	0
7/13/2024 17:59	46203	DANV_T2	6	5	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
7/13/2024 18:00	46204	DANV_T2	162	163	1	1.54	1.36	-0.18	0	0	0	0	0	0	0	0
7/13/2024 18:00	46206	DANV_T2	170	147	-23	1.01	1.08	0.07	1.25	1.27	2	2	0	2100	2100	0
7/13/2024 18:00	46205	DANV_T2	3	2	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/13/2024 18:00	46203	DANV_T2	2	5	3	0.3	0.38	0.08	0	0	0	0	0	0	0	0
7/13/2024 18:01	67605	WARW_T1	1	3	2	1.4	0.97	-0.43	-0.34	-0.36	0	0	0	0	0	0
7/13/2024 18:02	67605	WARW_T1	1	3	2	1.4	0.97	-0.43	-0.34	-0.36	0	0	0	0	0	0
7/13/2024 18:04	58702	ROSE_T2	10	6	-4	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/13/2024 18:04	58706	ROSE_T2	18	10	-8	0.71	0.93	0.22	0	0	0	0	0	0	0	0
7/13/2024 18:04	58705	ROSE_T2	3	2	-1	1	0.2	-0.8	0	0	0	0	0	0	0	0
7/13/2024 18:04	58701	ROSE_T2	9	20	11	0.4	0.44	0.04	-2.7	-2.7	2	2	0	1200	1200	0
7/13/2024 18:05	58702	ROSE_T2	10	6	-4	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/13/2024 18:05	58706	ROSE_T2	18	10	-8	0.71	0.93	0.22	0	0	0	0	0	0	0	0
7/13/2024 18:05	58701	ROSE_T2	9	20	11	0.4	0.44	0.04	-1.35	-1.35	1	1	0	600	600	0
7/13/2024 18:05	58705	ROSE_T2	3	2	-1	1	0.2	-0.8	0	0	0	0	0	0	0	0
7/13/2024 18:07	12601	MACA_T1	10	5	-5	1.11	0.33	-0.78	1.72	1.69	0	0	0	0	0	0
7/13/2024 18:07	12602	MACA_T1	9	6	-3	1.23	0.58	-0.65	0	0	0	0	0	0	0	0
7/13/2024 18:07	12606	MACA_T1	84	94	10	1.65	1.77	0.12	0	0	0	0	0	0	0	0
7/13/2024 18:10	16004	DORN_T1	4	6	2	0.18	0.63	0.45	0	0	0	0	0	0	0	0
7/13/2024 18:10	16007	DORN_T1	1	1	0	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
7/13/2024 18:10	16005	DORN_T1	4	1	-3	0.5	0.9	0.4	0	0	0	0	0	0	0	0
7/13/2024 18:10	16001	DORN_T1	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
7/13/2024 18:14	61703	ELIZ_T1	96	69	-27	0.6	0.38	-0.22	-1.63	-1.98	2	2	0	2100	2100	0
7/13/2024 18:14	61701	ELIZ_T1	9	7	-2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/13/2024 18:17	52004	LING_T2	6	13	7	0.58	0.43	-0.15	0.34	0.33	0	0	0	0	0	0
7/13/2024 18:17	12001	HATF_T1	1	4	3	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/13/2024 18:17	52002	LING_T2	110	106	-4	0.52	0.39	-0.13	0	0	0	0	0	0	0	0
7/13/2024 18:17	12002	HATF_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/13/2024 18:17	12006	HATF_T1	0	0	0	0	0	0	0.71	0.68	1	1	0	1200	1200	0
7/13/2024 18:17	52006	LING_T2	7	7	0	0.59	0.92	0.33	0	0	0	0	0	0	0	0
7/13/2024 18:21	14601	SWHI_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/13/2024 18:21	14605	SWHI_T1	77	84	7	0.79	0.65	-0.14	0	0	0	0	0	0	0	0
7/13/2024 18:21	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/13/2024 18:21	14603	SWHI_T1	4	4	0	0.98	0.3	-0.68	-0.01	-0.01	2	2	0	1200	1200	0
7/13/2024 18:23	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/13/2024 18:23	14605	SWHI_T1	77	84	7	0.79	0.65	-0.14	0	0	0	0	0	0	0	0
7/13/2024 18:23	14603	SWHI_T1	4	4	0	0.98	0.3	-0.68	-0.01	-0.01	2	2	0	1200	1200	0
7/13/2024 18:23	14601	SWHI_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/13/2024 18:26	14603	SWHI_T1	4	4	0	0.98	0.3	-0.68	-0.01	-0.01	2	2	0	1200	1200	0
7/13/2024 18:26	14605	SWHI_T1	77	84	7	0.79	0.65	-0.14	0	0	0	0	0	0	0	0
7/13/2024 18:26	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/13/2024 18:26	14601	SWHI_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/13/2024 18:28	20401	ASHF_T2	63	33	-30	0.57	0.44	-0.13	0	0	0	0	0	0	0	0
7/13/2024 18:28	20403	ASHF_T2	45	44	-1	0.57	0.52	-0.05	0.46	0.44	0	0	0	0	0	0
7/13/2024 18:28	20402	ASHF_T2	224	225	1	0.89	0.67	-0.22	0	0	0	0	0	0	0	0
7/13/2024 18:31	61101	BERK_T5	14	9	-5	1.71	0.61	-1.1	-0.78	-0.81	0	0	0	0	0	0
7/13/2024 18:34	47403	PENS_T1	0	1	1	0	2	2	0	0	0	0	0	0	0	0
7/13/2024 18:34	47401	PENS_T1	54	27	-27	0.56	0.97	0.41	0.43	0.41	0	0	0	0	0	0
7/13/2024 18:34	47402	PENS_T1	7	6	-1	1.31	1.08	-0.23	0	0	0	0	0	0	0	0
7/13/2024 18:36	66504	SMAN_T2	28	23	-5	0.49	0.36	-0.13	0.04	0.05	0	0	0	0	0	0
7/13/2024 18:36	66503	SMAN_T2	19	13	-6	0.97	0.5	-0.47	0	0	0	0	0	0	0	0
7/13/2024 18:36	66505	SMAN_T2	181	138	-43	0.51	0.43	-0.08	0	0	0	0	0	0	0	0
7/13/2024 18:38	41901	REED_T1	12	8	-4	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
7/13/2024 18:38	41903	REED_T1	0	0	0	0	0	0	0.28	0.31	1	1	0	1200	1200	0
7/13/2024 18:38	41902	REED_T1	154	159	5	0.76	0.69	-0.07	0	0	0	0	0	0	0	0
7/13/2024 18:40	66505	SMAN_T2	181	138	-43	0.51	0.43	-0.08	0	0	0	0	0	0	0	0
7/13/2024 18:40	66504	SMAN_T2	28	23	-5	0.49	0.36	-0.13	0.04	0.05	0	0	0	0	0	0
7/13/2024 18:40	66503	SMAN_T2	19	13	-6	0.97	0.5	-0.47	0	0	0	0	0	0	0	0
7/13/2024 18:42	67605	WARW_T1	3	3	0	0.67	1.03	0.36	-0.35	-0.36	0	0	0	0	0	0
7/13/2024 18:43	67605	WARW_T1	3	3	0	0.67	1.03	0.36	-0.35	-0.36	0	0	0	0	0	0
7/13/2024 18:47	54701	NEBL_T1	139	27	-112	0.67	0.64	-0.03	0	0	1	1	0	600	600	0
7/13/2024 18:50	54701	NEBL_T1	139	27	-112	0.67	0.64	-0.03	0	0	1	1	0	600	600	0
7/13/2024 18:54	59101	WALK_T2	0	0	0	0	0	0	-0.3	-0.41	2	2	0	1200	1200	0
7/13/2024 18:55	29402	BELT_T1	179	223	44	1.3	1.36	0.06	0	0	0	0	0	0	0	0
7/13/2024 18:55	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	900	900	0
7/13/2024 18:59	63304	GREE_T1	0	0	0	0	0	0	-2.87	-2.97	1	1	0	1200	1200	0
7/13/2024 19:00	63304	GREE_T1	0	0	0	0	0	0	-2.87	-2.97	1	1	0	1200	1200	0
7/13/2024 19:03	67605	WARW_T1	3	3	0	1.03	1.13	0.1	-0.36	-0.43	0	0	0	0	0	0
7/13/2024 19:04	67605	WARW_T1	3	3	0	1.03	1.13	0.1	-0.36	-0.43	0	0	0	0	0	0
7/13/2024 19:05	52503	PROG_T2	0	0	0	0	0	0	0.76	0.66	2	2	0	1800	1800	0
7/13/2024 19:05	65602	QVIL_T2	2	1	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/13/2024 19:05	47403	PENS_T1	1	0	-1	1.8	0	-1.8	0	0	0	0	0	0	0	0
7/13/2024 19:05	65603	QVIL_T2	0	0	0	0	0	0	-0.79	-0.47	0	0	0	0	0	0
7/13/2024 19:05	47401	PENS_T1	20	21	1	0.93	1.28	0.35	0.35	0.4	0	0	0	0	0	0
7/13/2024 19:05	65604	QVIL_T2	7	4	-3	0.64	0.2	-0.44	0	0	0	0	0	0	0	0
7/13/2024 19:05	47402	PENS_T1	6	5	-1	0.93	0.8	-0.13	0	0	0	0	0	0	0	0
7/13/2024 19:15	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 19:15	62102	ELAN_T1	0	1	1	0	0	0	-0.1	-0.1	0	0	0	0	0	0
7/13/2024 19:15	12302	LANA_T2	4	2	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/13/2024 19:15	12304	LANA_T2	96	83	-13	0.72	0.52	-0.2	0	0	0	0	0	0	0	0
7/13/2024 19:15	12301	LANA_T2	4	1	-3	0.9	0.5	-0.4	-1.8	-1.87	1	1	0	1200	1200	0
7/13/2024 19:15	12305	LANA_T2	3	11	8	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
7/13/2024 19:15	62105	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/13/2024 19:18	55003	NEWP_T2	15	0	-15	0.57	0	-0.57	-0.92	-0.92	1	1	0	600	600	0
7/13/2024 19:19	57401	SPAN_T1	2	5	3	2.3	0.7	-1.6	-2.08	-2.13	3	3	0	2400	2400	0
7/13/2024 19:19	57403	SPAN_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/13/2024 19:20	57401	SPAN_T1	2	5	3	2.3	0.7	-1.6	-2.08	-2.13	3	3	0	2400	2400	0
7/13/2024 19:20	57403	SPAN_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/13/2024 19:20	59003	MIFF_T1	3	3	0	1.2	0.65	-0.55	-0.51	-0.56	0	0	0	0	0	0
7/13/2024 19:20	57402	SPAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/13/2024 19:20	57404	SPAN_T2	1	1	0	0.3	0	-0.3	-1.63	-1.69	1	1	0	1200	1200	0
7/13/2024 19:23	48302	ORWI_T2	88	36	-52	0.74	0.61	-0.13	0	0	0	0	0	0	0	0
7/13/2024 19:23	48303	ORWI_T2	0	0	0	0	0	0	0.9	0.89	0	0	0	0	0	0
7/13/2024 19:24	57402	SPAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/13/2024 19:24	57404	SPAN_T2	1	1	0	0.3	0	-0.3	-1.69	-1.68	1	1	0	1200	1200	0
7/13/2024 20:00	49804	UNIV_T1	1	1	0	0.4	0.4	0	0.38	0.35	0	0	0	0	0	0
7/13/2024 20:01	41301	FISH_T1	2	3	1	0.15	0.97	0.82	0	0	0	0	0	0	0	0
7/13/2024 20:01	41303	FISH_T1	0	0	0	0	0	0	-0.99	-1.04	0	0	0	0	0	0
7/13/2024 20:12	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 20:12	40502	CRES_T2	33	21	-12	0.6	0.36	-0.24	0.11	0.08	0	0	0	0	0	0
7/13/2024 20:12	54503	ENOL_T2	0	0	0	0	0	0	-2.38	-2.42	1	1	0	600	600	0
7/13/2024 20:21	64202	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/13/2024 20:21	64204	KINZ_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
7/13/2024 20:21	64203	KINZ_T1	0	0	0	0	0	0	-1.41	-1.44	3	3	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/13/2024 20:27	43304	WATS_T2	39	46	7	0.61	0.51	-0.1	-1.56	-1.55	1	1	0	600	600	0
7/13/2024 20:27	43301	WATS_T2	2	2	0	2.2	1.5	-0.7	0	0	0	0	0	0	0	0
7/13/2024 20:28	43304	WATS_T2	39	46	7	0.61	0.51	-0.1	-1.56	-1.55	1	1	0	600	600	0
7/13/2024 20:28	43301	WATS_T2	2	2	0	2.2	1.5	-0.7	0	0	0	0	0	0	0	0
7/13/2024 21:03	60502	NMAN_T2	0	0	0	0	0	0	-0.3	-0.35	0	0	0	0	0	0
7/13/2024 21:03	60501	NMAN_T2	3	3	0	3.97	4.53	0.56	0	0	0	0	0	0	0	0
7/13/2024 21:13	60803	BUCK_T1	7	13	6	0.19	0.35	0.16	0	0	0	0	0	0	0	0
7/13/2024 21:13	60801	BUCK_T1	0	1	1	0	0.1	0.1	-0.54	-0.55	1	1	0	600	600	0
7/13/2024 22:00	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:00	14801	TREI_T2	207	191	-16	2.29	1.2	-1.09	0	0	0	0	0	0	0	0
7/13/2024 22:10	67203	TEHI_T1	0	0	0	0	0	0	1.49	1.43	1	1	0	900	900	0
7/13/2024 22:10	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:10	67201	TEHI_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/13/2024 22:10	14801	TREI_T2	207	191	-16	2.29	1.2	-1.09	0	0	0	0	0	0	0	0
7/13/2024 22:17	57401	SPAN_T1	0	0	0	0	0	0	-1.11	-1.13	1	1	0	600	600	0
7/13/2024 22:21	10603	BLGL_T1	5	53	48	0.36	0.35	-0.01	-0.8	0.3	0	0	0	0	0	0
7/13/2024 22:24	46203	DANV_T2	1	4	3	0.2	0.2	0	-2.33	-2.32	0	0	0	0	0	0
7/13/2024 22:24	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:24	60801	BUCK_T1	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
7/13/2024 22:24	27603	PIRI_T2	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
7/13/2024 22:24	27605	PIRI_T2	54	43	-11	0.62	0.48	-0.14	1.23	1.08	0	0	0	0	0	0
7/13/2024 22:24	46206	DANV_T2	10	14	4	0.79	0.49	-0.3	0	0	0	0	0	0	0	0
7/13/2024 22:24	60803	BUCK_T1	13	4	-9	0.22	0.1	-0.12	0	0	0	0	0	0	0	0
7/13/2024 22:26	43301	WATS_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/13/2024 22:26	45302	WBER_T2	1	1	0	0.5	0	-0.5	1.27	1.26	0	0	0	0	0	0
7/13/2024 22:26	43304	WATS_T2	11	3	-8	0.3	0.2	-0.1	-0.64	-0.67	0	0	0	0	0	0
7/13/2024 22:26	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:26	44203	POIN_T2	6	6	0	2.62	1.62	-1	-0.64	-0.67	2	2	0	2100	2100	0
7/13/2024 22:26	65604	QVIL_T2	0	0	0	0	0	0	0.81	0.81	0	0	0	0	0	0
7/13/2024 22:27	25402	LAHA_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
7/13/2024 22:27	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/13/2024 22:27	46203	DANV_T2	1	4	3	0.2	0.2	0	-2.33	-2.32	0	0	0	0	0	0
7/13/2024 22:27	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:27	12801	MICK_T1	0	0	0	0	0	0	-0.71	-0.75	1	1	0	600	600	0
7/13/2024 22:27	14801	TREI_T2	191	183	-8	1.52	0.92	-0.6	0	0	0	0	0	0	0	0
7/13/2024 22:27	15704	TANN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:27	46206	DANV_T2	10	14	4	0.79	0.49	-0.3	0	0	0	0	0	0	0	0
7/13/2024 22:27	15701	TANN_T1	1	1	0	4.5	4.6	0.1	0	0	0	0	0	0	0	0
7/13/2024 22:27	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:28	12305	LANA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/13/2024 22:28	16302	ALPA_T2	0	0	0	0	0	0	-0.29	-0.43	0	0	0	0	0	0
7/13/2024 22:28	60803	BUCK_T1	13	4	-9	0.22	0.1	-0.12	0	0	0	0	0	0	0	0
7/13/2024 22:28	60801	BUCK_T1	0	0	0	0	0	0	0.14	0.1	0	0	0	0	0	0
7/13/2024 22:28	12302	LANA_T2	0	0	0	0	0	0	-1.92	-1.97	3	3	0	2700	2700	0
7/13/2024 22:28	61101	BERK_T5	0	0	0	0	0	0	-1.28	-1.29	0	0	0	0	0	0
7/13/2024 22:28	47101	MARL_T1	13	12	-1	1.15	0.82	-0.33	-0.88	-0.87	1	1	0	600	600	0
7/13/2024 22:28	12304	LANA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/13/2024 22:28	42701	AUGU_T1	42	49	7	0.49	0.45	-0.04	0	0	2	2	0	1800	1800	0
7/13/2024 22:29	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:29	44203	POIN_T2	6	6	0	2.62	1.62	-1	-0.64	-0.67	2	2	0	2100	2100	0
7/13/2024 22:29	12701	MACU_T1	0	0	0	0	0	0	-0.79	-0.81	1	1	0	1200	1200	0
7/13/2024 22:29	41602	CLEV_T1	1	0	-1	0.7	0	-0.7	0	0	1	1	0	600	600	0
7/13/2024 22:29	20401	ASHF_T2	3	0	-3	0.8	0	-0.8	-0.36	-0.37	1	1	0	600	600	0
7/13/2024 22:29	46206	DANV_T2	10	14	4	0.79	0.49	-0.3	0.99	0.91	2	2	0	2100	2100	0
7/13/2024 22:29	14404	SSLA_T1	2	5	3	0.9	1.25	0.35	0.01	-0.02	1	1	0	900	900	0
7/13/2024 22:29	29402	BELT_T1	123	98	-25	1.11	0.94	-0.17	0	0	0	0	0	0	0	0
7/13/2024 22:29	44703	MUNC_T2	0	0	0	0	0	0	1	1.01	0	0	0	0	0	0
7/13/2024 22:29	46203	DANV_T2	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
7/13/2024 22:29	20402	ASHF_T2	10	8	-2	0.98	0	-0.98	0	0	0	0	0	0	0	0
7/13/2024 22:29	20403	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:29	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:29	14403	SSLA_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/13/2024 22:29	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/13/2024 22:30	16302	ALPA_T2	0	0	0	0	0	0	-0.15	-0.21	0	0	0	0	0	0
7/13/2024 22:30	22905	HARW_T1	23	41	18	1.24	0.64	-0.6	0	0	0	0	0	0	0	0
7/13/2024 22:30	20402	ASHF_T2	8	7	-1	0.81	0	-0.81	0	0	0	0	0	0	0	0
7/13/2024 22:30	65603	QVIL_T2	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
7/13/2024 22:30	20601	GRWO_T2	0	0	0	0	0	0	0.08	0.03	0	0	0	0	0	0
7/13/2024 22:30	20403	ASHF_T2	1	1	0	0.3	0	-0.3	0.88	0.87	0	0	0	0	0	0
7/13/2024 22:30	56501	ROCK_T2	33	103	70	0.22	0.24	0.02	-2.36	-2.41	0	0	0	0	0	0
7/13/2024 22:30	48302	ORWI_T2	0	1	1	0	0.1	0.1	-0.21	-0.22	0	0	0	0	0	0
7/13/2024 22:30	58801	COCO_T2	0	0	0	0	0	0	-1.45	-1.5	2	2	0	2400	2400	0
7/13/2024 22:30	56504	ROCK_T2	3	2	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/13/2024 22:30	65001	NEFF_T2	0	0	0	0	0	0	-0.6	-0.59	1	1	0	1200	1200	0
7/13/2024 22:30	40101	HUNT_T2	0	1	1	0	0	0	-0.97	-0.95	0	0	0	0	0	0
7/13/2024 22:30	22901	HARW_T1	0	0	0	0	0	0	-1.69	-1.58	1	1	0	1200	1200	0
7/13/2024 22:30	20603	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 22:30	22903	HARW_T1	7	8	1	0.67	0.44	-0.23	0	0	0	0	0	0	0	0
7/13/2024 22:30	12301	LANA_T2	0	0	0	0	0	0	-0.81	-0.84	1	1	0	1200	1200	0
7/13/2024 22:31	67603	WARW_T1	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
7/13/2024 22:31	11104	EGYP_T1	0	1	1	0	0	0	-0.17	-0.23	0	0	0	0	0	0
7/13/2024 22:31	29402	BELT_T1	71	98	27	0.75	0.96	0.21	0	0	0	0	0	0	0	0
7/13/2024 22:31	60803	BUCK_T1	3	4	1	0.1	0.18	0.08	-0.91	-0.95	1	1	0	600	600	0
7/13/2024 22:31	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/13/2024 22:31	46301	ROHR_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/13/2024 22:31	13503	MCMI_T2	0	0	0	0	0	0	-0.58	-0.62	0	0	0	0	0	0
7/13/2024 22:31	67605	WARW_T1	2	3	1	0.7	0.43	-0.27	0	0	0	0	0	0	0	0
7/13/2024 22:31	11504	FREE_T1	0	0	0	0	0	0	-1.96	-1.86	2	2	0	2100	2100	0
7/13/2024 22:31	24902	WHHA_T1	2	1	-1	0.45	0.4	-0.05	0.41	0.4	0	0	0	0	0	0
7/13/2024 22:31	11102	EGYP_T1	5	1	-4	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
7/13/2024 22:31	46302	ROHR_T1	4	6	2	0.43	0.52	0.09	0.35	0.36	0	0	0	0	0	0
7/13/2024 22:32	63402	HONY_T2	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
7/13/2024 22:32	60501	NMAN_T2	3	3	0	4.9	4.93	0.03	0	0	0	0	0	0	0	0
7/13/2024 22:32	60502	NMAN_T2	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
7/13/2024 22:32	49804	UNIV_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/13/2024 22:32	63403	HONY_T2	0	0	0	0	0	0	-0.49	-0.58	0	0	0	0	0	0
7/13/2024 22:32	40101	HUNT_T2	0	1	1	0	0	0	-0.97	-0.95	0	0	0	0	0	0
7/13/2024 22:32	49803	UNIV_T1	0	0	0	0	0	0	-1.78	-1.82	0	0	0	0	0	0
7/13/2024 22:32	64302	LINC_T2	0	0	0	0	0	0	1.41	1.39	0	0	0	0	0	0
7/13/2024 22:33	66703	STRA_T1	2	5	3	0.15	0.35	0.2	-0.83	-0.87	0	0	0	0	0	0
7/13/2024 22:33	14603	SWHI_T1	0	0	0	0	0	0	-0.02	-0.02	4	4	0	2400	2400	0
7/13/2024 22:33	16001	DORN_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
7/13/2024 22:33	58706	ROSE_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/13/2024 22:33	64202	KINZ_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/13/2024 22:33	66701	STRA_T1	2	1	-1	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/13/2024 22:33	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:33	64204	KINZ_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
7/13/2024 22:33	66505	SMAN_T2	1	5	4	1	1	0	0	0	0	0	0	0	0	0
7/13/2024 22:33	46204	DANV_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 22:33	65901	SAKR_T2	1	1	0	7.2	8	0.8	-1.01	-1.08	2	2	0	1500	1500	0
7/13/2024 22:33	40302	TAMA_T3	12	2	-10	0.17	0.25	0.08	-0.97	-1	0	0	0	0	0	0
7/13/2024 22:33	43301	WATS_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/13/2024 22:33	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:33	20402	ASHF_T2	8	7	-1	0.81	0	-0.81	0	0	0	0	0	0	0	0
7/13/2024 22:33	64302	LINC_T2	0	0	0	0	0	0	1.41	1.39	0	0	0	0	0	0
7/13/2024 22:33	44302	BEAV_T2	0	0	0	0	0	0	0.48	0.51	0	0	0	0	0	0
7/13/2024 22:33	40303	TAMA_T3	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/13/2024 22:33	64201	KINZ_T1	0	0	0	0	0	0	-0.29	-0.34	3	3	0	1500	1500	0
7/13/2024 22:33	46203	DANV_T2	2	5	3	0.15	0.18	0.03	0	0	0	0	0	0	0	0
7/13/2024 22:33	51401	LYKE_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
7/13/2024 22:33	14605	SWHI_T1	2	2	0	1.7	0.4	-1.3	0	0	0	0	0	0	0	0
7/13/2024 22:33	11507	FREE_T2	3	1	-2	0.37	0.1	-0.27	0.99	0.87	1	1	0	600	600	0
7/13/2024 22:33	44301	BEAV_T2	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
7/13/2024 22:33	20403	ASHF_T2	1	1	0	0.3	0	-0.3	0.88	0.87	0	0	0	0	0	0
7/13/2024 22:33	46206	DANV_T2	14	11	-3	0.54	0.63	0.09	0.99	0.91	2	2	0	2100	2100	0
7/13/2024 22:33	47401	PENS_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
7/13/2024 22:33	61102	BERK_T5	0	0	0	0	0	0	0.45	0.29	2	2	0	1500	1500	0
7/13/2024 22:33	58701	ROSE_T2	0	0	0	0	0	0	-1.71	-1.72	1	1	0	600	600	0
7/13/2024 22:33	29402	BELT_T1	71	98	27	0.75	0.96	0.21	0	0	0	0	0	0	0	0
7/13/2024 22:33	43304	WATS_T2	3	1	-2	0.3	0.1	-0.2	-1.28	-1.33	0	0	0	0	0	0
7/13/2024 22:33	66504	SMAN_T2	0	4	4	0	0.2	0.2	1.28	1.26	0	0	0	0	0	0
7/13/2024 22:33	58705	ROSE_T2	4	4	0	1.13	1.33	0.2	0	0	0	0	0	0	0	0
7/13/2024 22:33	65503	MOJO_T2	0	0	0	0	0	0	-0.5	-0.54	1	1	0	900	900	0
7/13/2024 22:34	12606	MACA_T1	23	29	6	0.96	1.39	0.43	0	0	0	0	0	0	0	0
7/13/2024 22:34	56801	BENV_T1	20	13	-7	0.42	0.76	0.34	-0.82	-0.87	2	2	0	1200	1200	0
7/13/2024 22:34	12701	MACU_T1	0	0	0	0	0	0	-0.79	-0.81	1	1	0	1200	1200	0
7/13/2024 22:34	12006	HATF_T1	0	0	0	0	0	0	1.21	1.1	0	0	0	0	0	0
7/13/2024 22:34	42901	MIDD_T2	3	2	-1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/13/2024 22:34	42701	AUGU_T1	49	32	-17	0.49	0.49	0	0	0	2	2	0	1800	1800	0
7/13/2024 22:34	41903	REED_T1	0	0	0	0	0	0	-0.14	-0.12	1	1	0	1200	1200	0
7/13/2024 22:34	47402	HUGH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 22:34	42903	MIDD_T2	2	2	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/13/2024 22:34	12005	HATF_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/13/2024 22:34	24902	WHHA_T1	2	1	-1	0.45	0.4	-0.05	0.82	0.8	0	0	0	0	0	0
7/13/2024 22:34	40502	CRES_T2	1	4	3	0.2	0.18	-0.02	-0.21	-0.27	0	0	0	0	0	0
7/13/2024 22:34	63304	GREE_T1	0	0	0	0	0	0	-2.36	-2.4	0	0	0	0	0	0
7/13/2024 22:34	66701	STRA_T1	2	1	-1	0.55	0	-0.55	0.69	0.63	1	1	0	600	600	0
7/13/2024 22:34	42902	MIDD_T2	0	0	0	0	0	0	-0.96	-0.98	1	1	0	600	600	0
7/13/2024 22:34	67605	WARW_T1	2	3	1	0.7	0.43	-0.27	-1.9	-1.91	0	0	0	0	0	0
7/13/2024 22:34	47001	HUGH_T2	4	3	-1	4.88	6.5	1.62	-1.07	-1.12	1	1	0	900	900	0
7/13/2024 22:34	65901	SAKR_T2	1	1	0	7.2	8	0.8	-1.01	-1.08	2	2	0	1500	1500	0
7/13/2024 22:34	12601	MACA_T1	0	0	0	0	0	0	1.34	1.38	0	0	0	0	0	0
7/13/2024 22:34	67602	WARW_T2	0	0	0	0	0	0	0.11	0.07	2	2	0	1500	1500	0
7/13/2024 22:34	61102	BERK_T5	0	0	0	0	0	0	1.35	0.87	6	6	0	4500	4500	0
7/13/2024 22:34	40101	HUNT_T2	0	1	1	0	0	0	-0.97	-0.95	0	0	0	0	0	0
7/13/2024 22:34	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:34	66703	STRA_T1	2	5	3	0.15	0.35	0.2	0	0	0	0	0	0	0	0
7/13/2024 22:34	41901	REED_T1	3	8	5	0.27	0.34	0.07	0	0	0	0	0	0	0	0
7/13/2024 22:34	42601	TUSC_T1	0	0	0	0	0	0	-0.03	-0.03	2	2	0	1800	1800	0
7/13/2024 22:34	64101	REFR_T1	1	0	-1	0.1	0	-0.1	-0.08	-0.06	0	0	0	0	0	0
7/13/2024 22:34	52004	LING_T2	0	0	0	0	0	0	0.37	0.25	0	0	0	0	0	0
7/13/2024 22:34	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/13/2024 22:34	59101	WALK_T2	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/13/2024 22:34	57401	SPAN_T1	0	0	0	0	0	0	-2.26	-1.72	2	2	0	1200	1200	0
7/13/2024 22:34	52002	LING_T2	0	0	0	0	0	0	-0.17	-0.19	1	1	0	900	900	0
7/13/2024 22:35	13503	MCMI_T2	0	0	0	0	0	0	-0.58	-0.62	0	0	0	0	0	0
7/13/2024 22:35	46204	DANV_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 22:35	51401	LYKE_T1	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
7/13/2024 22:35	42901	MIDD_T2	3	2	-1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/13/2024 22:35	64101	REFR_T1	1	0	-1	0.1	0	-0.1	-0.15	-0.11	0	0	0	0	0	0
7/13/2024 22:35	67605	WARW_T1	2	3	1	0.7	0.43	-0.27	-0.95	-0.96	0	0	0	0	0	0
7/13/2024 22:35	22903	HARW_T1	7	8	1	0.67	0.44	-0.23	0	0	0	0	0	0	0	0
7/13/2024 22:35	65604	QVIL_T2	0	0	0	0	0	0	0.81	0.81	0	0	0	0	0	0
7/13/2024 22:35	66903	SHIL_T2	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
7/13/2024 22:35	65603	QVIL_T2	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
7/13/2024 22:35	41901	REED_T1	3	8	5	0.27	0.34	0.07	0	0	0	0	0	0	0	0
7/13/2024 22:35	66701	STRA_T1	2	1	-1	0.55	0	-0.55	0.69	0.63	1	1	0	600	600	0
7/13/2024 22:35	47002	HUGH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 22:35	66902	SHIL_T2	4	10	6	0.15	0.16	0.01	0	0	0	0	0	0	0	0
7/13/2024 22:35	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:35	22905	HARW_T1	23	41	18	1.24	0.64	-0.6	0	0	0	0	0	0	0	0
7/13/2024 22:35	52503	PROG_T2	0	0	0	0	0	0	-0.17	-0.15	1	1	0	900	900	0
7/13/2024 22:35	58705	ROSE_T2	4	4	0	1.13	1.33	0.2	0	0	0	0	0	0	0	0
7/13/2024 22:35	47101	MARL_T1	12	14	2	0.97	0.82	-0.15	-0.88	-0.87	1	1	0	600	600	0
7/13/2024 22:35	42701	AUGU_T1	49	32	-17	0.49	0.49	0	0	0	2	2	0	1800	1800	0
7/13/2024 22:35	46203	DANV_T2	2	5	3	0.15	0.18	0.03	-6.98	-6.95	0	0	0	0	0	0
7/13/2024 22:35	42902	MIDD_T2	0	0	0	0	0	0	-0.96	-0.98	1	1	0	600	600	0
7/13/2024 22:35	47401	PENS_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
7/13/2024 22:35	58706	ROSE_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/13/2024 22:35	46206	DANV_T2	14	11	-3	0.54	0.63	0.09	0	0	0	0	0	0	0	0
7/13/2024 22:35	56501	ROCK_T2	33	103	70	0.22	0.24	0.02	-2.36	-2.41	0	0	0	0	0	0
7/13/2024 22:35	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:35	56504	ROCK_T2	3	2	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/13/2024 22:35	67602	WARW_T2	0	0	0	0	0	0	0.23	0.14	4	4	0	3000	3000	0
7/13/2024 22:35	22901	HARW_T1	0	0	0	0	0	0	-1.69	-1.58	1	1	0	1200	1200	0
7/13/2024 22:35	61102	BERK_T5	0	0	0	0	0	0	0.45	0.29	2	2	0	1500	1500	0
7/13/2024 22:35	47001	HUGH_T2	4	3	-1	4.88	6.5	1.62	-1.07	-1.12	1	1	0	900	900	0
7/13/2024 22:35	66703	STRA_T1	2	5	3	0.15	0.35	0.2	0	0	0	0	0	0	0	0
7/13/2024 22:35	42903	MIDD_T2	2	2	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/13/2024 22:35	57401	SPAN_T1	0	0	0	0	0	0	-1.13	-0.86	1	1	0	600	600	0
7/13/2024 22:35	58703	ROSE_T2	0	0	0	0	0	0	-1.12	-1.18	0	0	0	0	0	0
7/13/2024 22:35	41902	REED_T1	0	0	0	0	0	0	0.36	0.31	1	1	0	900	900	0
7/13/2024 22:35	21206	ECAR_T2	1	3	2	7	7.6	0.6	0.4	0.37	0	0	0	0	0	0
7/13/2024 22:35	55408	SHER_T2	1	1	0	2	1.6	-0.4	-0.94	-0.94	1	1	0	1200	1200	0
7/13/2024 22:35	66901	SHIL_T2	130	85	-45	0.23	0.29	0.06	-1.58	-0.22	1	0	-1	1200	0	-1200
7/13/2024 22:36	11102	EGYP_T1	5	1	-4	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
7/13/2024 22:36	56501	ROCK_T2	33	103	70	0.22	0.24	0.02	-2.36	-2.41	0	0	0	0	0	0
7/13/2024 22:36	61102	BERK_T5	0	0	0	0	0	0	0.29	0.34	2	2	0	1500	1500	0
7/13/2024 22:36	52403	GRPA_T2	4	8	4	0.55	0.97	0.42	0	0	0	0	0	0	0	0
7/13/2024 22:36	52402	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/13/2024 22:36	66505	SMAN_T2	1	5	4	1	1	0	0.07	-0.09	4	4	0	2300	2300	0
7/13/2024 22:36	60803	BUCK_T1	3	4	1	0.1	0.18	0.08	-0.95	-0.94	1	1	0	600	600	0
7/13/2024 22:36	12701	MACU_T1	0	0	0	0	0	0	-0.81	-0.82	1	1	0	1200	1200	0
7/13/2024 22:36	47401	PENS_T1	0	0	0	0	0	0	1.11	1.18	0	0	0	0	0	0
7/13/2024 22:36	67603	WARW_T1	0	0	0	0	0	0	-0.22	-0.27	0	0	0	0	0	0
7/13/2024 22:36	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:36	56504	ROCK_T2	3	2	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/13/2024 22:36	65402	MARI_T1	4	12	8	0.13	0.13	0	0	0	0	0	0	0	0	0
7/13/2024 22:36	67605	WARW_T1	2	3	1	0.7	0.43	-0.27	0	0	0	0	0	0	0	0
7/13/2024 22:36	58701	ROSE_T2	0	0	0	0	0	0	-1.71	-1.72	1	1	0	600	600	0
7/13/2024 22:36	15203	SFAR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/13/2024 22:36	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:36	20403	ASHF_T2	1	1	0	0.3	0	-0.3	0.88	0.87	0	0	0	0	0	0
7/13/2024 22:36	20402	ASHF_T2	8	7	-1	0.81	0	-0.81	0	0	0	0	0	0	0	0
7/13/2024 22:36	22101	EDEL_T2	0	0	0	0	0	0	1.38	1.28	1	1	0	1200	1200	0
7/13/2024 22:36	42901	MIDD_T2	3	2	-1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/13/2024 22:36	42903	MIDD_T2	2	2	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/13/2024 22:36	52404	GRPA_T2	0	0	0	0	0	0	-0.53	-0.58	0	0	0	0	0	0
7/13/2024 22:36	11104	EGYP_T1	0	1	1	0	0	0	-0.23	0.7	0	0	0	0	0	0
7/13/2024 22:36	65401	MARI_T1	17	13	-4	2.24	0.9	-1.34	-0.1	-0.2	0	0	0	0	0	0
7/13/2024 22:36	58803	COCO_T1	1	1	0	0.7	0.7	0	-0.91	-1.01	1	1	0	600	600	0
7/13/2024 22:36	40901	JESH_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
7/13/2024 22:36	58705	ROSE_T2	4	4	0	1.13	1.33	0.2	0	0	0	0	0	0	0	0
7/13/2024 22:36	66504	SMAN_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
7/13/2024 22:36	52002	LING_T2	0	0	0	0	0	0	-0.17	-0.19	1	1	0	900	900	0
7/13/2024 22:36	61304	EARL_T1	11	27	16	0.16	0.24	0.08	0.61	0.66	0	0	0	0	0	0
7/13/2024 22:36	57401	SPAN_T1	0	0	0	0	0	0	-1.13	-0.86	1	1	0	600	600	0
7/13/2024 22:36	58706	ROSE_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/13/2024 22:36	40902	JESH_T1	1	0	-1	0.3	0	-0.3	-1.27	-1.38	2	2	0	1200	1200	0
7/13/2024 22:36	42902	MIDD_T2	0	0	0	0	0	0	-0.98	-1.01	1	1	0	600	600	0
7/13/2024 22:36	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:37	52404	GRPA_T2	0	0	0	0	0	0	-0.58	-0.61	0	0	0	0	0	0
7/13/2024 22:37	64202	KINZ_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/13/2024 22:37	54601	SUMM_T2	0	0	0	0	0	0	0	0	6	6	0	6000	6000	0
7/13/2024 22:37	41902	REED_T1	0	0	0	0	0	0	0.31	0.35	1	1	0	900	900	0
7/13/2024 22:37	52402	GRPA_T2	1	1	0	0.4	0	-0.4	-0.58	-0.61	0	0	0	0	0	0
7/13/2024 22:37	66504	SMAN_T2	0	4	4	0	0.2	0.2	0.63	0.49	0	0	0	0	0	0
7/13/2024 22:37	64204	KINZ_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
7/13/2024 22:37	52403	GRPA_T2	4	8	4	0.55	0.97	0.42	0	0	0	0	0	0	0	0
7/13/2024 22:37	46301	ROHR_T1	1	0	-1	0.4	0	-0.4	0.39	0.37	0	0	0	0	0	0
7/13/2024 22:37	66701	STRA_T1	2	1	-1	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/13/2024 22:37	46206	DANV_T2	14	11	-3	0.54	0.63	0.09	0.91	0.96	2	2	0	2100	2100	0
7/13/2024 22:37	66505	SMAN_T2	1	5	4	1	1	0	0	0	0	0	0	0	0	0
7/13/2024 22:37	57401	SPAN_T1	0	0	0	0	0	0	-0.86	-1.02	1	1	0	600	600	0
7/13/2024 22:37	46203	DANV_T2	2	5	3	0.15	0.18	0.03	0	0	0	0	0	0	0	0
7/13/2024 22:37	41901	REED_T1	3	8	5	0.27	0.34	0.07	0	0	0	0	0	0	0	0
7/13/2024 22:37	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:37	52401	GRPA_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
7/13/2024 22:37	56801	BENV_T1	20	13	-7	0.42	0.76	0.34	-0.87	-0.87	2	2	0	1200	1200	0
7/13/2024 22:37	47401	PENS_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
7/13/2024 22:37	27603	PIRI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
7/13/2024 22:37	58706	ROSE_T2	1	1	0	0.7	0.4	-0.3	-0.19	-0.22	1	1	0	600	600	0
7/13/2024 22:37	11804	FRAN_T1	144	88	-56	0.61	0.69	0.08	0.46	0.46	0	0	0	0	0	0
7/13/2024 22:37	58705	ROSE_T2	4	4	0	1.13	1.33	0.2	0	0	0	0	0	0	0	0
7/13/2024 22:37	48303	ORWI_T2	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
7/13/2024 22:37	46302	ROHR_T1	4	6	2	0.43	0.52	0.09	0	0	0	0	0	0	0	0
7/13/2024 22:37	64201	KINZ_T1	0	0	0	0	0	0	-0.34	-0.39	3	3	0	1500	1500	0
7/13/2024 22:37	27605	PIRI_T2	43	19	-24	0.65	0.29	-0.36	1.08	1.04	0	0	0	0	0	0
7/13/2024 22:37	56803	BENV_T1	0	0	0	0	0	0	-0.21	-0.21	1	1	0	600	600	0
7/13/2024 22:37	11802	FRAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/13/2024 22:37	25503	MADI_T1	5	32	27	0.24	0.15	-0.09	-0.58	-0.6	0	0	0	0	0	0
7/13/2024 22:37	46204	DANV_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 22:37	52002	LING_T2	0	0	0	0	0	0	-0.19	-0.22	1	1	0	900	900	0
7/13/2024 22:37	66703	STRA_T1	2	5	3	0.15	0.35	0.2	-0.87	-0.87	0	0	0	0	0	0
7/13/2024 22:37	48302	ORWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 22:38	61701	ELIZ_T1	1	0	-1	3.8	3.8	0	0	0	0	0	0	0	0	0
7/13/2024 22:38	42903	MIDD_T2	2	2	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/13/2024 22:38	64101	REFR_T1	1	0	-1	0.1	0	-0.1	-0.11	-0.19	0	0	0	0	0	0
7/13/2024 22:38	52401	GRPA_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
7/13/2024 22:38	16002	DORN_T2	1	0	-1	0.5	0	-0.5	0.01	-0.02	1	1	0	1200	1200	0
7/13/2024 22:38	42901	MIDD_T2	3	2	-1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/13/2024 22:38	43304	WATS_T2	3	1	-2	0.3	0.1	-0.2	-0.67	-0.69	0	0	0	0	0	0
7/13/2024 22:38	46206	DANV_T2	14	11	-3	0.54	0.63	0.09	0	0	0	0	0	0	0	0
7/13/2024 22:38	47401	PENS_T1	0	0	0	0	0	0	1.11	1.18	0	0	0	0	0	0
7/13/2024 22:38	67605	WARW_T1	2	3	1	0.7	0.43	-0.27	-0.96	-0.96	0	0	0	0	0	0
7/13/2024 22:38	46203	DANV_T2	2	5	3	0.15	0.18	0.03	-4.63	-4.77	0	0	0	0	0	0
7/13/2024 22:38	40901	JESH_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
7/13/2024 22:38	57404	SPAN_T2	0	0	0	0	0	0	-0.84	-0.81	1	1	0	1200	1200	0
7/13/2024 22:38	52403	GRPA_T2	4	8	4	0.55	0.97	0.42	0	0	0	0	0	0	0	0
7/13/2024 22:38	42902	MIDD_T2	0	0	0	0	0	0	-0.98	-1.01	1	1	0	600	600	0
7/13/2024 22:38	61102	BERK_T5	0	0	0	0	0	0	0.29	0.34	2	2	0	1500	1500	0
7/13/2024 22:38	67602	WARW_T2	0	0	0	0	0	0	0.07	0.05	2	2	0	1500	1500	0
7/13/2024 22:38	55002	NEWP_T1	2	2	0	0.7	1.05	0.35	0	0	0	0	0	0	0	0
7/13/2024 22:38	52501	PROG_T1	0	3	3	0	0.13	0.13	-0.76	-0.81	1	1	0	300	300	0
7/13/2024 22:38	52004	LING_T2	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
7/13/2024 22:38	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:38	56801	BENV_T1	20	13	-7	0.42	0.76	0.34	-0.87	-0.87	2	2	0	1200	1200	0
7/13/2024 22:38	55001	NEWP_T1	1	0	-1	1.3	0	-1.3	-0.49	-0.54	0	0	0	0	0	0
7/13/2024 22:38	16006	DORN_T2	7	0	-7	0.94	1.17	0.23	0	0	0	0	0	0	0	0
7/13/2024 22:38	43301	WATS_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/13/2024 22:38	42701	AUGU_T1	49	32	-17	0.49	0.49	0	0	0	4	4	0	3600	3600	0
7/13/2024 22:38	52402	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/13/2024 22:38	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/13/2024 22:38	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:38	59101	WALK_T2	0	0	0	0	0	0	0.1	0.05	0	0	0	0	0	0
7/13/2024 22:38	61703	ELIZ_T1	0	0	0	0	0	0	-2.45	-2.51	2	2	0	2100	2100	0
7/13/2024 22:38	40902	JESH_T1	1	0	-1	0.3	0	-0.3	-1.27	-1.38	2	2	0	1200	1200	0
7/13/2024 22:38	46204	DANV_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 22:39	58803	COCO_T1	1	1	0	0.7	0.7	0	-1.01	-1.04	1	1	0	600	600	0
7/13/2024 22:39	11102	EGYP_T1	5	1	-4	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
7/13/2024 22:39	11104	EGYP_T1	0	1	1	0	0	0	-0.23	0.7	0	0	0	0	0	0
7/13/2024 22:39	20601	GRWO_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
7/13/2024 22:39	56501	ROCK_T2	33	103	70	0.22	0.24	0.02	-4.83	-4.93	0	0	0	0	0	0
7/13/2024 22:39	16301	ALPA_T1	1	0	-1	0.5	0	-0.5	0.39	0.33	0	0	0	0	0	0
7/13/2024 22:39	59003	MIFF_T1	0	1	1	0	0	0	-0.48	-0.51	0	0	0	0	0	0
7/13/2024 22:39	57106	SPHI_T2	3	3	0	0.77	0.93	0.16	0	0	0	0	0	0	0	0
7/13/2024 22:39	52403	GRPA_T2	4	8	4	0.55	0.97	0.42	-0.49	-0.51	0	0	0	0	0	0
7/13/2024 22:39	67602	WARW_T2	0	0	0	0	0	0	0.07	0.05	2	2	0	1500	1500	0
7/13/2024 22:39	20603	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 22:39	44301	BEAV_T2	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
7/13/2024 22:39	56504	ROCK_T2	3	2	-1	0.9	0	-0.9	0.25	0.19	0	0	0	0	0	0
7/13/2024 22:39	44302	BEAV_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
7/13/2024 22:39	14603	SWHI_T1	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1200	1200	0
7/13/2024 22:39	52404	GRPA_T2	0	0	0	0	0	0	-0.58	-0.61	0	0	0	0	0	0
7/13/2024 22:39	14605	SWHI_T1	2	2	0	1.7	0.4	-1.3	0	0	0	0	0	0	0	0
7/13/2024 22:39	61701	ELIZ_T1	1	1	0	3.8	3.8	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/13/2024 22:39	61102	BERK_T5	0	0	0	0	0	0	0.29	0.34	2	2	0	1500	1500	0
7/13/2024 22:39	61703	ELIZ_T1	0	0	0	0	0	0	-2.45	-2.51	2	2	0	2100	2100	0
7/13/2024 22:39	57101	SPHI_T2	6	6	0	0.32	0.7	0.38	0	0	0	0	0	0	0	0
7/13/2024 22:39	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/13/2024 22:39	57401	SPAN_T1	0	0	0	0	0	0	-0.86	-1.02	1	1	0	600	600	0
7/13/2024 22:39	64101	REFR_T1	1	0	-1	0.1	0	-0.1	-0.06	-0.1	0	0	0	0	0	0
7/13/2024 22:39	65601	QVIL_T2	0	0	0	0	0	0	-0.18	-0.23	1	1	0	900	900	0
7/13/2024 22:39	57104	SPHI_T2	0	0	0	0	0	0	-1.11	-1.14	1	1	0	900	900	0
7/13/2024 22:39	52402	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/13/2024 22:39	52001	LING_T1	0	0	0	0	0	0	-0.39	-0.43	0	0	0	0	0	0
7/13/2024 22:40	12701	MACU_T1	0	0	0	0	0	0	-0.81	-0.82	1	1	0	1200	1200	0
7/13/2024 22:40	52402	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/13/2024 22:40	42901	MIDD_T2	3	2	-1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/13/2024 22:40	57404	SPAN_T2	0	0	0	0	0	0	-0.84	-0.81	1	1	0	1200	1200	0
7/13/2024 22:40	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/13/2024 22:40	48302	ORWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 22:40	56801	BENV_T1	20	13	-7	0.42	0.76	0.34	-0.87	-0.87	2	2	0	1200	1200	0
7/13/2024 22:40	20402	ASHF_T2	8	7	-1	0.81	0	-0.81	0	0	0	0	0	0	0	0
7/13/2024 22:40	51002	NHAR_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/13/2024 22:40	52403	GRPA_T2	4	8	4	0.55	0.97	0.42	0	0	0	0	0	0	0	0
7/13/2024 22:40	45602	WOOL_T1	44	29	-15	0.52	0.41	-0.11	0.53	0.51	0	0	0	0	0	0
7/13/2024 22:40	52401	GRPA_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
7/13/2024 22:40	59101	WALK_T2	0	0	0	0	0	0	0.1	0.05	0	0	0	0	0	0
7/13/2024 22:40	58706	ROSE_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/13/2024 22:40	55001	NEWP_T1	1	0	-1	1.3	0	-1.3	-0.99	-1.09	0	0	0	0	0	0
7/13/2024 22:40	61703	ELIZ_T1	0	0	0	0	0	0	-2.45	-2.51	2	2	0	2100	2100	0
7/13/2024 22:40	62102	ELAN_T1	0	0	0	0	0	0	0.72	1.64	0	0	0	0	0	0
7/13/2024 22:40	44203	POIN_T2	6	5	-1	2.02	1.52	-0.5	-0.67	-0.75	2	2	0	2100	2100	0
7/13/2024 22:40	42903	MIDD_T2	2	2	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/13/2024 22:40	48303	ORWI_T2	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
7/13/2024 22:40	58705	ROSE_T2	4	4	0	1.13	1.33	0.2	0	0	0	0	0	0	0	0
7/13/2024 22:40	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:40	20403	ASHF_T2	1	1	0	0.3	0	-0.3	0.87	0.83	0	0	0	0	0	0
7/13/2024 22:40	42902	MIDD_T2	0	0	0	0	0	0	-0.98	-1.01	1	1	0	600	600	0
7/13/2024 22:40	16302	ALPA_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
7/13/2024 22:40	51004	NHAR_T1	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
7/13/2024 22:40	51003	NHAR_T1	2	2	0	0.2	0.1	-0.1	-2.7	-2.72	1	1	0	1200	1200	0
7/13/2024 22:40	55002	NEWP_T1	2	2	0	0.7	1.05	0.35	0	0	0	0	0	0	0	0
7/13/2024 22:40	22602	KIMB_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
7/13/2024 22:40	45802	HEGI_T2	47	48	1	1.36	1.6	0.24	-0.02	0.06	0	0	0	0	0	0
7/13/2024 22:40	47101	MARL_T1	12	14	2	0.97	0.82	-0.15	-0.87	-0.27	1	0	-1	600	0	-600
7/13/2024 22:40	42701	AUGU_T1	49	32	-17	0.49	0.49	0	0	0	2	2	0	1800	1800	0
7/13/2024 22:40	58703	ROSE_T2	0	0	0	0	0	0	-1.18	-1.18	0	0	0	0	0	0
7/13/2024 22:40	47401	PENS_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
7/13/2024 22:40	44202	POIN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/13/2024 22:40	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/13/2024 22:40	60803	BUCK_T1	3	4	1	0.1	0.18	0.08	-0.95	-0.94	1	1	0	600	600	0
7/13/2024 22:40	44301	BEAV_T2	1	1	0	1.1	0.7	-0.4	-1.09	-1.14	1	1	0	600	600	0
7/13/2024 22:40	57401	SPAN_T1	0	0	0	0	0	0	-0.86	-1.02	1	1	0	600	600	0
7/13/2024 22:40	56803	BENV_T1	0	0	0	0	0	0	-0.21	-0.21	1	1	0	600	600	0
7/13/2024 22:40	61701	ELIZ_T1	1	1	0	3.8	3.8	0	0	0	0	0	0	0	0	0
7/13/2024 22:40	13503	MCMI_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
7/13/2024 22:41	43304	WATS_T2	3	1	-2	0.3	0.1	-0.2	-0.67	-0.69	0	0	0	0	0	0
7/13/2024 22:41	46204	DANV_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 22:41	65503	MOJO_T2	0	0	0	0	0	0	-0.54	-0.55	1	1	0	900	900	0
7/13/2024 22:41	41301	FISH_T1	3	5	2	0.75	0.42	-0.33	0	0	0	0	0	0	0	0
7/13/2024 22:41	56504	ROCK_T2	3	2	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/13/2024 22:41	41303	FISH_T1	0	0	0	0	0	0	-0.45	-0.48	0	0	0	0	0	0
7/13/2024 22:41	54701	NEBL_T1	1	1	0	0.7	1.1	0.4	0	0	1	1	0	600	600	0
7/13/2024 22:41	67801	WLAN_T1	0	2	2	0	0	0	-1.06	-1.12	0	0	0	0	0	0
7/13/2024 22:41	56801	BENV_T1	20	13	-7	0.42	0.76	0.34	0	0	0	0	0	0	0	0
7/13/2024 22:41	65902	SAKR_T2	0	0	0	0	0	0	-1.32	-1.26	2	2	0	1200	1200	0
7/13/2024 22:41	46206	DANV_T2	14	11	-3	0.54	0.63	0.09	0	0	0	0	0	0	0	0
7/13/2024 22:41	64101	REFR_T1	1	0	-1	0.1	0	-0.1	-0.11	-0.19	0	0	0	0	0	0
7/13/2024 22:41	56501	ROCK_T2	33	103	70	0.22	0.24	0.02	-4.83	-4.93	0	0	0	0	0	0
7/13/2024 22:41	58705	ROSE_T2	4	4	0	1.13	1.33	0.2	0	0	0	0	0	0	0	0
7/13/2024 22:41	67201	TEHI_T1	1	6	5	0.1	0.18	0.08	0.65	0.64	0	0	0	0	0	0
7/13/2024 22:41	58706	ROSE_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/13/2024 22:41	67804	WLAN_T1	7	8	1	0.36	0.21	-0.15	0	0	0	0	0	0	0	0
7/13/2024 22:41	55101	WERT_T1	0	0	0	0	0	0	-2.43	-2.5	4	4	0	3300	3300	0
7/13/2024 22:41	43301	WATS_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/13/2024 22:41	47101	MARL_T1	12	14	2	0.97	0.82	-0.15	-0.87	-0.27	1	0	-1	600	0	-600
7/13/2024 22:41	56803	BENV_T1	0	0	0	0	0	0	-0.21	-0.21	1	1	0	600	600	0
7/13/2024 22:41	40101	HUNT_T2	0	1	1	0	0	0	-0.95	-0.99	0	0	0	0	0	0
7/13/2024 22:41	45802	HEGI_T2	47	48	1	1.36	1.6	0.24	-0.02	0.06	0	0	0	0	0	0
7/13/2024 22:41	58701	ROSE_T2	0	0	0	0	0	0	-1.72	-1.77	1	1	0	600	600	0
7/13/2024 22:41	46203	DANV_T2	2	5	3	0.15	0.18	0.03	-2.32	-2.39	0	0	0	0	0	0
7/13/2024 22:41	65901	SAKR_T2	1	1	0	7.2	8	0.8	0	0	0	0	0	0	0	0
7/13/2024 22:42	56801	BENV_T1	20	13	-7	0.42	0.76	0.34	-0.87	-0.87	2	2	0	1200	1200	0
7/13/2024 22:42	65205	PRIN_T1	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
7/13/2024 22:42	61701	ELIZ_T1	1	1	0	3.8	3.8	0	0	0	0	0	0	0	0	0
7/13/2024 22:42	40603	PIGR_T1	2	0	-2	0.25	0	-0.25	-0.59	-0.6	0	0	0	0	0	0
7/13/2024 22:42	64101	REFR_T1	1	0	-1	0.1	0	-0.1	-0.06	-0.1	0	0	0	0	0	0
7/13/2024 22:42	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:42	52402	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/13/2024 22:42	61703	ELIZ_T1	0	0	0	0	0	0	-2.45	-2.51	2	2	0	2100	2100	0
7/13/2024 22:42	47401	PENS_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
7/13/2024 22:42	20603	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 22:42	55101	WERT_T1	0	0	0	0	0	0	-4.86	-5.01	8	8	0	6600	6600	0
7/13/2024 22:42	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/13/2024 22:42	56803	BENV_T1	0	0	0	0	0	0	-0.21	-0.21	1	1	0	600	600	0
7/13/2024 22:42	52002	LING_T2	0	0	0	0	0	0	-0.19	-0.22	1	1	0	900	900	0
7/13/2024 22:42	56504	ROCK_T2	3	2	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/13/2024 22:42	20601	GRWO_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
7/13/2024 22:42	56501	ROCK_T2	33	103	70	0.22	0.24	0.02	-2.41	-2.46	0	0	0	0	0	0
7/13/2024 22:42	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:42	67602	WARW_T2	0	0	0	0	0	0	0.07	0.05	2	2	0	1500	1500	0
7/13/2024 22:42	40601	PIGR_T1	1	2	1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/13/2024 22:42	67605	WARW_T1	2	3	1	0.7	0.43	-0.27	-0.96	-0.96	0	0	0	0	0	0
7/13/2024 22:42	45602	WOOL_T1	44	29	-15	0.52	0.41	-0.11	0.53	0.51	0	0	0	0	0	0
7/13/2024 22:42	52404	GRPA_T2	0	0	0	0	0	0	-0.58	-0.61	0	0	0	0	0	0
7/13/2024 22:42	40602	PIGR_T1	1	1	0	1.4	0.2	-1.2	0	0	0	0	0	0	0	0
7/13/2024 22:42	52403	GRPA_T2	4	8	4	0.55	0.97	0.42	0	0	0	0	0	0	0	0
7/13/2024 22:43	42901	MIDD_T2	3	2	-1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/13/2024 22:43	46204	DANV_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 22:43	58701	ROSE_T2	0	0	0	0	0	0	-1.72	-1.77	1	1	0	600	600	0
7/13/2024 22:43	67605	WARW_T1	2	3	1	0.7	0.43	-0.27	-0.96	-0.96	0	0	0	0	0	0
7/13/2024 22:43	59101	WALK_T2	0	0	0	0	0	0	0.2	0.11	0	0	0	0	0	0
7/13/2024 22:43	61703	ELIZ_T1	0	0	0	0	0	0	-2.45	-2.51	2	2	0	2100	2100	0
7/13/2024 22:43	20403	ASHF_T2	1	1	0	0.3	0	-0.3	0.87	0.83	0	0	0	0	0	0
7/13/2024 22:43	43301	WATS_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/13/2024 22:43	21203	ECAR_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
7/13/2024 22:43	20402	ASHF_T2	8	7	-1	0.81	0	-0.81	0	0	0	0	0	0	0	0
7/13/2024 22:43	58705	ROSE_T2	4	4	0	1.13	1.33	0.2	0	0	0	0	0	0	0	0
7/13/2024 22:43	56504	ROCK_T2	3	2	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/13/2024 22:43	13105	NHAM_T2	4	12	8	1.13	0.83	-0.3	-0.85	-0.85	1	1	0	1200	1200	0
7/13/2024 22:43	61701	ELIZ_T1	1	1	0	3.8	3.8	0	0	0	0	0	0	0	0	0
7/13/2024 22:43	42903	MIDD_T2	2	2	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/13/2024 22:43	42902	MIDD_T2	0	0	0	0	0	0	-0.98	-1.01	1	1	0	600	600	0
7/13/2024 22:43	46203	DANV_T2	2	5	3	0.15	0.18	0.03	-2.32	-2.39	0	0	0	0	0	0
7/13/2024 22:43	66701	STRA_T1	2	1	-1	0.55	0	-0.55	0.63	0.65	1	1	0	600	600	0
7/13/2024 22:43	46206	DANV_T2	14	11	-3	0.54	0.63	0.09	0.91	0.96	2	2	0	2100	2100	0
7/13/2024 22:43	45302	WBER_T2	1	0	-1	0.1	0	-0.1	1.26	1.24	0	0	0	0	0	0
7/13/2024 22:43	64203	KINZ_T1	0	0	0	0	0	0	-0.07	-0.08	1	1	0	600	600	0
7/13/2024 22:43	47101	MARL_T1	12	14	2	0.97	0.82	-0.15	-0.87	-0.27	1	0	-1	600	0	-600
7/13/2024 22:43	56501	ROCK_T2	33	103	70	0.22	0.24	0.02	-4.83	-4.93	0	0	0	0	0	0
7/13/2024 22:43	64204	KINZ_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
7/13/2024 22:43	58706	ROSE_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/13/2024 22:43	55003	NEWP_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
7/13/2024 22:43	64202	KINZ_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/13/2024 22:43	67602	WARW_T2	0	0	0	0	0	0	0.14	0.1	4	4	0	3000	3000	0
7/13/2024 22:43	43304	WATS_T2	3	1	-2	0.3	0.1	-0.2	-0.67	-0.69	0	0	0	0	0	0
7/13/2024 22:43	66703	STRA_T1	2	5	3	0.15	0.35	0.2	0	0	0	0	0	0	0	0
7/13/2024 22:44	47101	MARL_T1	12	14	2	0.97	0.82	-0.15	-0.87	-0.27	1	0	-1	600	0	-600
7/13/2024 22:44	61701	ELIZ_T1	1	1	0	3.8	3.8	0	0	0	0	0	0	0	0	0
7/13/2024 22:44	54502	ENOL_T2	0	0	0	0	0	0	-1.62	-1.66	1	1	0	600	600	0
7/13/2024 22:44	43202	MVIL_T2	0	0	0	0	0	0	-1.02	-1.08	0	0	0	0	0	0
7/13/2024 22:44	64101	REFR_T1	1	0	-1	0.1	0	-0.1	-0.06	-0.1	0	0	0	0	0	0
7/13/2024 22:44	14404	SSLA_T1	2	5	3	0.9	1.4	0.5	0	0	0	0	0	0	0	0
7/13/2024 22:44	46301	ROHR_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/13/2024 22:44	46302	ROHR_T1	4	6	2	0.43	0.52	0.09	0.36	0.35	0	0	0	0	0	0
7/13/2024 22:44	57401	SPAN_T1	0	0	0	0	0	0	-0.86	-1.02	1	1	0	600	600	0
7/13/2024 22:44	66505	SMAN_T2	1	5	4	1	1	0	0	0	0	0	0	0	0	0
7/13/2024 22:44	56504	ROCK_T2	3	2	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/13/2024 22:44	47401	PENS_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
7/13/2024 22:44	56501	ROCK_T2	33	103	70	0.22	0.24	0.02	-2.41	-2.46	0	0	0	0	0	0
7/13/2024 22:44	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:44	54701	NEBL_T1	1	1	0	0.7	1.1	0.4	0	0	1	1	0	600	600	0
7/13/2024 22:44	66703	STRA_T1	2	5	3	0.15	0.35	0.2	-0.87	-0.87	0	0	0	0	0	0
7/13/2024 22:44	66701	STRA_T1	2	1	-1	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/13/2024 22:44	14403	SSLA_T1	1	0	-1	0.1	0	-0.1	0.01	0.01	2	2	0	1200	1200	0
7/13/2024 22:44	66504	SMAN_T2	0	4	4	0	0.2	0.2	0.63	0.49	0	0	0	0	0	0
7/13/2024 22:44	61703	ELIZ_T1	0	0	0	0	0	0	-2.45	-2.51	2	2	0	2100	2100	0
7/13/2024 22:45	46206	DANV_T2	8	12	4	0.51	0.43	-0.08	0	0	0	0	0	0	0	0
7/13/2024 22:45	47001	HUGH_T2	3	3	0	6.3	6.9	0.6	-1.12	-1.13	1	1	0	900	900	0
7/13/2024 22:45	43304	WATS_T2	1	1	0	0.2	0	-0.2	-0.67	-0.69	0	0	0	0	0	0
7/13/2024 22:45	46204	DANV_T2	3	2	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/13/2024 22:45	56801	BENV_T1	12	8	-4	0.68	1.06	0.38	-5.25	-5.19	12	12	0	7200	7200	0
7/13/2024 22:45	66703	STRA_T1	5	0	-5	0.35	0	-0.35	-0.87	-0.87	0	0	0	0	0	0
7/13/2024 22:45	43301	WATS_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/13/2024 22:45	57303	MOAL_T2	1	1	0	7.7	7.4	-0.3	0	0	0	0	0	0	0	0
7/13/2024 22:45	47101	MARL_T1	12	16	4	0.82	1.01	0.19	-0.87	-0.27	1	0	-1	600	0	-600
7/13/2024 22:45	41901	REED_T1	7	9	2	0.3	0.31	0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/13/2024 22:45	52002	LING_T2	0	0	0	0	0	0	-0.37	-0.45	2	2	0	1800	1800	0
7/13/2024 22:45	57304	MOAL_T2	2	0	-2	0.1	0	-0.1	-0.53	-0.6	0	0	0	0	0	0
7/13/2024 22:45	47002	HUGH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/13/2024 22:45	41902	REED_T1	0	0	0	0	0	0	0.62	0.7	2	2	0	1800	1800	0
7/13/2024 22:45	66701	STRA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/13/2024 22:45	55001	NEWP_T1	0	0	0	0	0	0	-0.49	-0.54	0	0	0	0	0	0
7/13/2024 22:45	55101	WERT_T1	0	0	0	0	0	0	-4.86	-5.01	8	8	0	6600	6600	0
7/13/2024 22:45	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.29	0	0	0	0	0	0
7/13/2024 22:45	46203	DANV_T2	4	5	1	0.2	0.16	-0.04	-2.32	-2.39	0	0	0	0	0	0
7/13/2024 22:45	55002	NEWP_T1	2	4	2	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
7/13/2024 22:45	43202	MVIL_T2	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
7/13/2024 22:46	52403	GRPA_T2	8	3	-5	0.65	0.4	-0.25	-0.49	-0.51	0	0	0	0	0	0
7/13/2024 22:46	58402	MORO_T1	0	0	0	0	0	0	-0.25	-0.28	3	3	0	1950	1950	0
7/13/2024 22:46	14802	TREI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:46	44301	BEAV_T2	1	1	0	0.7	0.7	0	-1.09	-1.14	1	1	0	600	600	0
7/13/2024 22:46	55408	SHER_T2	1	1	0	1.5	2	0.5	-0.94	-0.94	1	1	0	1200	1200	0
7/13/2024 22:46	52002	LING_T2	0	0	0	0	0	0	-0.19	-0.22	1	1	0	900	900	0
7/13/2024 22:46	56801	BENV_T1	12	8	-4	0.68	1.06	0.38	-0.87	-0.87	2	2	0	1200	1200	0
7/13/2024 22:46	41901	REED_T1	7	9	2	0.3	0.31	0.01	0	0	0	0	0	0	0	0
7/13/2024 22:46	14801	TREI_T2	168	151	-17	0.96	0.7	-0.26	0	0	0	0	0	0	0	0
7/13/2024 22:46	58706	ROSE_T2	1	1	0	0.8	0.4	-0.4	-0.19	-0.22	1	1	0	600	600	0
7/13/2024 22:46	55101	WERT_T1	0	0	0	0	0	0	-4.86	-5.01	8	8	0	6600	6600	0
7/13/2024 22:46	41902	REED_T1	0	0	0	0	0	0	0.31	0.35	1	1	0	900	900	0
7/13/2024 22:46	58705	ROSE_T2	4	4	0	1.13	1.33	0.2	0	0	0	0	0	0	0	0
7/13/2024 22:46	63304	GREE_T1	0	0	0	0	0	0	-2.4	-2.41	0	0	0	0	0	0
7/13/2024 22:46	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:47	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:47	56801	BENV_T1	12	8	-4	0.68	1.06	0.38	-0.87	-0.87	2	2	0	1200	1200	0
7/13/2024 22:47	57401	SPAN_T1	0	0	0	0	0	0	-0.86	-1.02	1	1	0	600	600	0
7/13/2024 22:47	67605	WARW_T1	3	3	0	0.43	0.4	-0.03	-0.96	-0.96	0	0	0	0	0	0
7/13/2024 22:47	52403	GRPA_T2	8	3	-5	0.65	0.4	-0.25	-0.49	-0.51	0	0	0	0	0	0
7/13/2024 22:48	49804	UNIV_T1	0	3	3	0	0.2	0.2	1.06	1.02	0	0	0	0	0	0
7/13/2024 22:48	54701	NEBL_T1	1	1	0	0.7	1.1	0.4	0	0	1	1	0	600	600	0
7/13/2024 22:48	66505	SMAN_T2	4	2	-2	0.43	1.7	1.27	0	0	0	0	0	0	0	0
7/13/2024 22:48	60501	NMAN_T2	3	3	0	4.93	5.2	0.27	0	0	0	0	0	0	0	0
7/13/2024 22:48	66504	SMAN_T2	1	4	3	0.2	0.3	0.1	0.63	0.49	0	0	0	0	0	0
7/13/2024 22:48	60502	NMAN_T2	0	0	0	0	0	0	0.35	0.2	0	0	0	0	0	0
7/13/2024 22:48	47101	MARL_T1	12	16	4	0.82	1.01	0.19	-0.87	-0.27	1	0	-1	600	0	-600
7/13/2024 22:48	59101	WALK_T2	0	0	0	0	0	0	0.1	0.05	0	0	0	0	0	0
7/13/2024 22:48	56801	BENV_T1	12	8	-4	0.68	1.06	0.38	-0.87	-0.87	2	2	0	1200	1200	0
7/13/2024 22:49	46302	ROHR_T1	2	6	4	0.6	0.52	-0.08	0.36	0.35	0	0	0	0	0	0
7/13/2024 22:50	52403	GRPA_T2	8	3	-5	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
7/13/2024 22:50	52402	GRPA_T2	0	1	1	0	0	0	-0.58	-0.61	0	0	0	0	0	0
7/13/2024 22:50	52002	LING_T2	0	0	0	0	0	0	-0.19	-0.22	1	1	0	900	900	0
7/13/2024 22:50	45602	WOOL_T1	29	26	-3	0.41	0.36	-0.05	0.53	0.51	0	0	0	0	0	0
7/13/2024 22:51	40901	JESH_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
7/13/2024 22:51	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/13/2024 22:51	40902	JESH_T1	0	0	0	0	0	0	-1.38	-1.4	2	2	0	1200	1200	0
7/13/2024 22:51	52403	GRPA_T2	8	3	-5	0.65	0.4	-0.25	-0.49	-0.51	0	0	0	0	0	0
7/13/2024 22:53	44302	BEAV_T2	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
7/13/2024 22:53	44301	BEAV_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
7/13/2024 22:54	46801	HEPB_T2	4	21	17	0.73	0.28	-0.45	0.32	0.25	0	0	0	0	0	0
7/13/2024 22:54	46803	HEPB_T2	1	5	4	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
7/13/2024 22:59	46801	HEPB_T2	4	21	17	0.73	0.28	-0.45	0.16	0.13	0	0	0	0	0	0
7/13/2024 22:59	46803	HEPB_T2	1	5	4	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
7/13/2024 23:16	40101	HUNT_T2	0	0	0	0	0	0	-0.95	-0.39	0	0	0	0	0	0
7/13/2024 23:20	56501	ROCK_T2	10	163	153	0.22	0.31	0.09	-2.5	-2.55	0	0	0	0	0	0
7/13/2024 23:26	64203	KINZ_T1	0	0	0	0	0	0	-0.08	-0.11	1	1	0	600	600	0
7/13/2024 23:26	64202	KINZ_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/13/2024 23:26	64204	KINZ_T1	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
7/13/2024 23:26	64201	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/13/2024 23:27	64201	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/13/2024 23:27	64202	KINZ_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/13/2024 23:27	64203	KINZ_T1	0	0	0	0	0	0	-0.08	-0.11	1	1	0	600	600	0
7/13/2024 23:27	64204	KINZ_T1	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
7/13/2024 23:46	64201	KINZ_T1	1	3	2	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
7/13/2024 23:46	64203	KINZ_T1	0	0	0	0	0	0	-0.11	-0.12	1	1	0	600	600	0
7/13/2024 23:46	64204	KINZ_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
7/13/2024 23:46	64202	KINZ_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
7/13/2024 23:47	64202	KINZ_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
7/13/2024 23:47	64203	KINZ_T1	0	0	0	0	0	0	-0.11	-0.12	1	1	0	600	600	0
7/13/2024 23:47	64204	KINZ_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
7/13/2024 23:47	64201	KINZ_T1	1	3	2	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
7/14/2024 0:06	64201	KINZ_T1	1	9	8	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/14/2024 0:06	64204	KINZ_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
7/14/2024 0:06	64202	KINZ_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
7/14/2024 0:06	64203	KINZ_T1	0	6	6	0	0.1	0.1	-0.12	0	1	1	0	600	600	0
7/14/2024 0:07	64204	KINZ_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
7/14/2024 0:07	64203	KINZ_T1	0	6	6	0	0.1	0.1	0	0	1	1	0	600	600	0
7/14/2024 0:07	64201	KINZ_T1	1	9	8	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/14/2024 0:07	64202	KINZ_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
7/14/2024 0:47	64202	KINZ_T1	2	3	1	0.25	0.33	0.08	0	0	0	0	0	0	0	0
7/14/2024 0:47	64203	KINZ_T1	15	4	-11	0.13	0.1	-0.03	-0.02	-0.08	1	1	0	600	600	0
7/14/2024 0:47	64204	KINZ_T1	3	3	0	0.5	0.53	0.03	0	0	0	0	0	0	0	0
7/14/2024 0:47	64201	KINZ_T1	19	10	-9	0.23	0.26	0.03	0	0	0	0	0	0	0	0
7/14/2024 0:48	64202	KINZ_T1	2	3	1	0.25	0.33	0.08	0	0	0	0	0	0	0	0
7/14/2024 0:48	64203	KINZ_T1	15	4	-11	0.13	0.1	-0.03	-0.02	-0.08	1	1	0	600	600	0
7/14/2024 0:48	64201	KINZ_T1	19	10	-9	0.23	0.26	0.03	0	0	0	0	0	0	0	0
7/14/2024 0:48	64204	KINZ_T1	3	3	0	0.5	0.53	0.03	0	0	0	0	0	0	0	0
7/14/2024 1:10	65901	SAKR_T2	1	1	0	7.4	7.7	0.3	-0.76	-0.81	1	1	0	900	900	0
7/14/2024 6:46	64201	KINZ_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/14/2024 6:46	64204	KINZ_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/14/2024 6:46	64203	KINZ_T1	0	0	0	0	0	0	0.49	0.39	0	0	0	0	0	0
7/14/2024 6:46	64202	KINZ_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/14/2024 6:51	44902	SCOT_T2	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
7/14/2024 6:52	55102	WERT_T2	0	0	0	0	0	0	-1.2	-1.18	1	1	0	600	600	0
7/14/2024 6:54	24902	WHHA_T1	2	2	0	0.45	0.2	-0.25	0.81	0.84	0	0	0	0	0	0
7/14/2024 6:58	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 7:06	64203	KINZ_T1	0	0	0	0	0	0	0.39	0.45	0	0	0	0	0	0
7/14/2024 7:06	64201	KINZ_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
7/14/2024 7:06	64204	KINZ_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/14/2024 7:07	64204	KINZ_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/14/2024 7:07	64203	KINZ_T1	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
7/14/2024 7:07	64201	KINZ_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
7/14/2024 7:11	54505	ENOL_T2	0	0	0	0	0	0	-1.16	-1.12	1	1	0	600	600	0
7/14/2024 7:14	12006	HATF_T1	0	0	0	0	0	0	0.83	0.89	0	0	0	0	0	0
7/14/2024 7:27	64203	KINZ_T1	0	0	0	0	0	0	0.46	0.55	0	0	0	0	0	0
7/14/2024 7:27	64201	KINZ_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
7/14/2024 7:27	64204	KINZ_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
7/14/2024 7:28	64201	KINZ_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
7/14/2024 7:28	64203	KINZ_T1	0	0	0	0	0	0	0.46	0.55	0	0	0	0	0	0
7/14/2024 7:28	64204	KINZ_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
7/14/2024 7:31	13503	MCMI_T2	0	0	0	0	0	0	-0.86	-0.85	0	0	0	0	0	0
7/14/2024 7:33	58402	MORO_T1	1	1	0	0.2	0.8	0.6	-0.08	-0.1	2	2	0	1500	1500	0
7/14/2024 7:33	58401	MORO_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/14/2024 7:34	56501	ROCK_T2	1	1	0	0.1	0.4	0.3	-1.72	-1.63	0	0	0	0	0	0
7/14/2024 7:35	14404	SSLA_T1	2	2	0	1.3	1.55	0.25	0	0	0	0	0	0	0	0
7/14/2024 7:35	14401	SSLA_T1	0	0	0	0	0	0	-1.4	-1.41	2	2	0	1800	1800	0
7/14/2024 7:37	56501	ROCK_T2	1	1	0	0.1	0.4	0.3	-1.63	-1.65	0	0	0	0	0	0
7/14/2024 7:38	56501	ROCK_T2	1	1	0	0.1	0.4	0.3	-1.63	-1.65	0	0	0	0	0	0
7/14/2024 7:41	61306	EARL_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
7/14/2024 7:41	61304	EARL_T1	15	2	-13	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
7/14/2024 7:43	40101	HUNT_T2	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
7/14/2024 7:48	64203	KINZ_T1	0	0	0	0	0	0	0.55	0.5	0	0	0	0	0	0
7/14/2024 7:48	64201	KINZ_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/14/2024 7:48	64204	KINZ_T1	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
7/14/2024 7:49	64204	KINZ_T1	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
7/14/2024 7:49	64203	KINZ_T1	0	0	0	0	0	0	0.55	0.5	0	0	0	0	0	0
7/14/2024 7:49	64201	KINZ_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/14/2024 7:53	24902	WHHA_T1	6	10	4	0.83	0.67	-0.16	0.84	0.84	0	0	0	0	0	0
7/14/2024 7:53	13905	SEID_T1	0	0	0	0	0	0	-0.75	-0.68	1	1	0	1200	1200	0
7/14/2024 7:59	24702	FLND_T2	0	0	0	0	0	0	-1.08	-1.17	2	2	0	2400	2400	0
7/14/2024 7:59	24701	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 8:00	44801	EDAN_T2	0	0	0	0	0	0	-1.46	-1.44	0	0	0	0	0	0
7/14/2024 8:01	64201	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/14/2024 8:01	64203	KINZ_T1	0	0	0	0	0	0	0.5	0.55	0	0	0	0	0	0
7/14/2024 8:01	64204	KINZ_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/14/2024 8:03	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.59	0	0	0	0	0	0
7/14/2024 8:11	62102	ELAN_T1	0	0	0	0	0	0	1.21	1.17	0	0	0	0	0	0
7/14/2024 8:13	21203	ECAR_T1	0	1	1	0	0.2	0.2	0.65	0.68	0	0	0	0	0	0
7/14/2024 8:31	58401	MORO_T1	0	0	0	0	0	0	-1.34	-0.62	2	1	-1	1200	600	-600
7/14/2024 8:33	58401	MORO_T1	0	0	0	0	0	0	-1.34	-0.62	2	1	-1	1200	600	-600
7/14/2024 8:39	65802	RTWN_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
7/14/2024 8:43	29402	BELT_T1	1	2	1	9	4.65	-4.35	0	0	0	0	0	0	0	0
7/14/2024 8:50	64204	KINZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/14/2024 8:50	64203	KINZ_T1	0	0	0	0	0	0	0.02	0.03	1	1	0	600	600	0
7/14/2024 8:51	64203	KINZ_T1	0	0	0	0	0	0	0.02	0.03	1	1	0	600	600	0
7/14/2024 8:51	64204	KINZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/14/2024 8:54	67605	WARW_T1	0	0	0	0	0	0	-1.05	-0.94	0	0	0	0	0	0
7/14/2024 8:54	20403	ASHF_T2	0	1	1	0	0	0	0.72	0.79	0	0	0	0	0	0
7/14/2024 8:54	20401	ASHF_T2	2	4	2	0.8	1.15	0.35	0	0	0	0	0	0	0	0
7/14/2024 8:56	20401	ASHF_T2	2	4	2	0.8	1.15	0.35	0	0	0	0	0	0	0	0
7/14/2024 8:56	20403	ASHF_T2	0	1	1	0	0	0	0.72	0.79	0	0	0	0	0	0
7/14/2024 9:02	13503	MCMI_T2	3	3	0	0.1	0.17	0.07	-0.75	-0.71	0	0	0	0	0	0
7/14/2024 9:09	56803	BENV_T1	5	2	-3	0.68	0.4	-0.28	0	0	0	0	0	0	0	0
7/14/2024 9:09	56801	BENV_T1	2	1	-1	0.4	0.5	0.1	-1.2	-1.13	3	3	0	1800	1800	0
7/14/2024 9:10	64203	KINZ_T1	0	0	0	0	0	0	-0.58	-0.58	2	2	0	900	900	0
7/14/2024 9:10	64204	KINZ_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/14/2024 9:10	44801	EDAN_T2	0	1	1	0	0.1	0.1	-1.42	-1.4	0	0	0	0	0	0
7/14/2024 9:10	46204	DANV_T2	0	13	13	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 9:10	46206	DANV_T2	43	62	19	0.47	0.51	0.04	1.96	2	1	1	0	1200	1200	0
7/14/2024 9:11	64203	KINZ_T1	0	0	0	0	0	0	-0.58	-0.58	2	2	0	900	900	0
7/14/2024 9:11	64204	KINZ_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/14/2024 9:12	46204	DANV_T2	0	13	13	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 9:12	46206	DANV_T2	43	62	19	0.47	0.51	0.04	1.96	2	1	1	0	1200	1200	0
7/14/2024 9:12	56803	BENV_T1	5	2	-3	0.68	0.4	-0.28	0	0	0	0	0	0	0	0
7/14/2024 9:12	56801	BENV_T1	2	1	-1	0.4	0.5	0.1	-0.8	-0.75	2	2	0	1200	1200	0
7/14/2024 9:13	56801	BENV_T1	2	1	-1	0.4	0.5	0.1	-0.8	-0.75	2	2	0	1200	1200	0
7/14/2024 9:13	56803	BENV_T1	5	2	-3	0.68	0.4	-0.28	0	0	0	0	0	0	0	0
7/14/2024 9:14	56803	BENV_T1	5	2	-3	0.68	0.4	-0.28	0	0	0	0	0	0	0	0
7/14/2024 9:14	56801	BENV_T1	2	1	-1	0.4	0.5	0.1	-0.8	-0.75	2	2	0	1200	1200	0
7/14/2024 9:14	63401	HONY_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
7/14/2024 9:15	63401	HONY_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
7/14/2024 9:15	16902	MECK_T1	0	0	0	0	0	0	0.2	0.24	0	0	0	0	0	0
7/14/2024 9:15	67605	WARW_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
7/14/2024 9:16	67605	WARW_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
7/14/2024 9:17	63401	HONY_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
7/14/2024 9:19	44801	EDAN_T2	0	1	1	0	0.1	0.1	-1.42	-1.4	0	0	0	0	0	0
7/14/2024 9:22	55408	SHER_T2	2	2	0	0.4	1.1	0.7	-0.94	-0.94	1	1	0	1200	1200	0
7/14/2024 9:27	10602	BLGL_T2	0	0	0	0	0	0	-0.45	-0.4	0	0	0	0	0	0
7/14/2024 9:28	29402	BELT_T1	115	105	-10	1.34	1.29	-0.05	0	0	0	0	0	0	0	0
7/14/2024 9:28	29401	BELT_T1	0	9	9	0	0.38	0.38	0	0	0	0	0	0	0	0
7/14/2024 9:29	20603	GRWO_T2	0	0	0	0	0	0	-0.39	-0.37	1	1	0	900	900	0
7/14/2024 9:29	20601	GRWO_T2	44	51	7	0.36	1.15	0.79	0	0	0	0	0	0	0	0
7/14/2024 9:30	64203	KINZ_T1	0	0	0	0	0	0	-0.58	-0.45	2	2	0	900	900	0
7/14/2024 9:30	64204	KINZ_T1	1	2	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/14/2024 9:31	64203	KINZ_T1	0	0	0	0	0	0	-0.58	-0.45	2	2	0	900	900	0
7/14/2024 9:31	64204	KINZ_T1	1	2	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/14/2024 9:35	67605	WARW_T1	0	0	0	0	0	0	-0.95	-0.92	0	0	0	0	0	0
7/14/2024 9:36	43304	WATS_T2	9	0	-9	0.44	0	-0.44	-0.78	-0.75	0	0	0	0	0	0
7/14/2024 9:36	67605	WARW_T1	0	0	0	0	0	0	-0.95	-0.92	0	0	0	0	0	0
7/14/2024 9:36	46001	BERW_T1	0	0	0	0	0	0	0.89	0.92	0	0	0	0	0	0
7/14/2024 9:37	67602	WARW_T2	0	2	2	0	0	0	0.25	0.22	2	2	0	1500	1500	0
7/14/2024 9:39	67602	WARW_T2	0	2	2	0	0	0	0.25	0.22	2	2	0	1500	1500	0
7/14/2024 9:40	43304	WATS_T2	9	0	-9	0.44	0	-0.44	-0.78	-0.75	0	0	0	0	0	0
7/14/2024 9:40	67801	WLAN_T1	0	0	0	0	0	0	-1.48	-1.31	0	0	0	0	0	0
7/14/2024 9:40	67804	WLAN_T1	10	0	0	1.44	1.28	-0.16	0	0	0	0	0	0	0	0
7/14/2024 9:41	58003	WCAR_T1	1	1	0	0.8	0.8	0	0.62	0.63	2	2	0	1200	1200	0
7/14/2024 9:41	58001	WCAR_T1	4	4	0	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
7/14/2024 9:48	47001	HUGH_T2	3	3	0	6.3	5.9	-0.4	-2.17	-2.06	2	2	0	1800	1800	0
7/14/2024 9:49	13503	MCMI_T2	1	1	0	0.4	0.1	-0.3	-0.67	-0.66	0	0	0	0	0	0
7/14/2024 9:50	13503	MCMI_T2	1	1	0	0.4	0.1	-0.3	-0.67	-0.66	0	0	0	0	0	0
7/14/2024 9:50	64203	KINZ_T1	0	0	0	0	0	0	-0.45	-0.49	2	2	0	900	900	0
7/14/2024 9:50	64204	KINZ_T1	2	2	0	0.2	1	0.8	0	0	0	0	0	0	0	0
7/14/2024 9:50	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 9:51	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 9:51	64203	KINZ_T1	0	0	0	0	0	0	-0.45	-0.49	2	2	0	900	900	0
7/14/2024 9:51	64204	KINZ_T1	2	2	0	0.2	1	0.8	0	0	0	0	0	0	0	0
7/14/2024 9:53	67602	WARW_T2	0	2	2	0	0	0	0.22	0.3	2	2	0	1500	1500	0
7/14/2024 9:54	14404	SSLA_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
7/14/2024 9:54	14403	SSLA_T1	5	6	1	0.64	0.47	-0.17	0.06	0.09	2	2	0	1200	1200	0
7/14/2024 9:55	60801	BUCK_T1	0	0	0	0	0	0	-0.5	-0.47	1	1	0	600	600	0
7/14/2024 9:55	67605	WARW_T1	0	0	0	0	0	0	-0.88	-0.86	0	0	0	0	0	0
7/14/2024 9:55	67602	WARW_T2	0	2	2	0	0	0	0.22	0.3	2	2	0	1500	1500	0
7/14/2024 9:56	60801	BUCK_T1	0	0	0	0	0	0	-0.5	-0.47	1	1	0	600	600	0
7/14/2024 9:56	67605	WARW_T1	0	0	0	0	0	0	-0.88	-0.86	0	0	0	0	0	0
7/14/2024 9:59	25402	LAHA_T2	11	18	7	0.8	0.63	-0.17	-0.24	-0.2	0	0	0	0	0	0
7/14/2024 10:00	52003	LING_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/14/2024 10:00	52001	LING_T1	0	0	0	0	0	0	-0.47	-0.42	0	0	0	0	0	0
7/14/2024 10:00	67602	WARW_T2	2	0	-2	0.15	0	-0.15	0.22	0.3	2	2	0	1500	1500	0
7/14/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
7/14/2024 10:00	24105	EHAZ_T1	4	4	0	6.28	5.8	-0.48	0	0	0	0	0	0	0	0
7/14/2024 10:00	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 10:00	40505	CRES_T1	3	6	3	2.8	1.95	-0.85	0.76	0.8	0	0	0	0	0	0
7/14/2024 10:00	55408	SHER_T2	2	2	0	0.55	0.65	0.1	-0.94	-0.94	1	1	0	1200	1200	0
7/14/2024 10:00	63401	HONY_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
7/14/2024 10:00	64101	REFR_T1	10	12	2	1.75	2.09	0.34	3.99	4.14	0	0	0	0	0	0
7/14/2024 10:00	64201	KINZ_T1	0	0	0	0	0	0	-0.7	-0.69	4	4	0	2100	2100	0
7/14/2024 10:00	64204	KINZ_T1	2	1	-1	0.3	1	0.7	0	0	0	0	0	0	0	0
7/14/2024 10:00	24103	EHAZ_T1	0	0	0	0	0	0	-1.42	-1.41	0	0	0	0	0	0
7/14/2024 10:00	24101	EHAZ_T1	20	5	-15	0.57	0	-0.57	0	0	0	0	0	0	0	0
7/14/2024 10:00	40504	CRES_T1	1	7	6	0.1	0.52	0.42	0	0	0	0	0	0	0	0
7/14/2024 10:06	67502	WEWI_T2	3	9	6	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/14/2024 10:06	67503	WEWI_T2	29	94	65	0.42	0.4	-0.02	-0.02	0.03	0	0	0	0	0	0
7/14/2024 10:07	43304	WATS_T2	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
7/14/2024 10:08	64101	REFR_T1	10	12	2	1.75	2.09	0.34	0.59	0.66	0	0	0	0	0	0
7/14/2024 10:08	43304	WATS_T2	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
7/14/2024 10:09	20401	ASHF_T2	8	7	-1	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
7/14/2024 10:09	14401	SSLA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 10:09	64101	REFR_T1	10	12	2	1.75	2.09	0.34	0.59	0.66	0	0	0	0	0	0
7/14/2024 10:09	14403	SSLA_T1	5	5	0	0.6	0.38	-0.22	0.09	0.14	2	2	0	1200	1200	0
7/14/2024 10:09	14404	SSLA_T1	2	3	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
7/14/2024 10:09	20402	ASHF_T2	13	12	-1	0.7	0.23	-0.47	0	0	0	0	0	0	0	0
7/14/2024 10:09	20403	ASHF_T2	7	0	-7	0.26	0	-0.26	0.87	-0.27	0	0	0	0	0	0
7/14/2024 10:11	20401	ASHF_T2	8	7	-1	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
7/14/2024 10:11	20403	ASHF_T2	7	0	-7	0.26	0	-0.26	0.87	-0.27	0	0	0	0	0	0
7/14/2024 10:11	20402	ASHF_T2	13	12	-1	0.7	0.23	-0.47	0	0	0	0	0	0	0	0
7/14/2024 10:11	43304	WATS_T2	0	0	0	0	0	0	-1.47	-1.48	0	0	0	0	0	0
7/14/2024 10:13	52404	GRPA_T2	2	4	2	1.35	0.5	-0.85	0.09	0.07	0	0	0	0	0	0
7/14/2024 10:13	52403	GRPA_T2	20	41	21	0.94	0.91	-0.03	0	0	0	0	0	0	0	0
7/14/2024 10:13	52402	GRPA_T2	3	12	9	0.93	0.67	-0.26	0	0	0	0	0	0	0	0
7/14/2024 10:13	52401	GRPA_T2	7	7	0	0.81	0.43	-0.38	0	0	0	0	0	0	0	0
7/14/2024 10:15	20403	ASHF_T2	0	0	0	0	0	0	0.87	-0.27	0	0	0	0	0	0
7/14/2024 10:15	20401	ASHF_T2	5	6	1	0.76	0.57	-0.19	0	0	0	0	0	0	0	0
7/14/2024 10:15	20402	ASHF_T2	10	12	2	0.37	0	-0.37	0	0	0	0	0	0	0	0
7/14/2024 10:16	64204	KINZ_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
7/14/2024 10:16	52404	GRPA_T2	1	4	3	0.5	0.8	0.3	0.09	0.07	0	0	0	0	0	0
7/14/2024 10:16	64203	KINZ_T1	0	0	0	0	0	0	-0.43	-0.46	2	2	0	900	900	0
7/14/2024 10:16	64202	KINZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/14/2024 10:16	52403	GRPA_T2	22	55	33	0.94	0.8	-0.14	0	0	0	0	0	0	0	0
7/14/2024 10:16	52401	GRPA_T2	4	6	2	0.55	0.55	0	0	0	0	0	0	0	0	0
7/14/2024 10:16	52402	GRPA_T2	7	14	7	0.67	0.43	-0.24	0	0	0	0	0	0	0	0
7/14/2024 10:17	22602	KIMB_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
7/14/2024 10:17	44801	EDAN_T2	1	1	0	0.5	0	-0.5	-1.38	-1.33	0	0	0	0	0	0
7/14/2024 10:18	68804	HEMP_T1	1	1	0	6.7	6.9	0.2	0.24	0.18	0	0	0	0	0	0
7/14/2024 10:18	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/14/2024 10:19	56501	ROCK_T2	2	4	2	0.4	0.43	0.03	-1.14	-2.37	0	0	0	0	0	0
7/14/2024 10:19	56504	ROCK_T2	4	5	1	0.75	0.67	-0.08	0	0	0	0	0	0	0	0
7/14/2024 10:20	56501	ROCK_T2	2	4	2	0.4	0.43	0.03	-1.14	-2.37	0	0	0	0	0	0
7/14/2024 10:20	56504	ROCK_T2	4	5	1	0.75	0.67	-0.08	0	0	0	0	0	0	0	0
7/14/2024 10:22	56504	ROCK_T2	4	5	1	0.75	0.67	-0.08	0	0	0	0	0	0	0	0
7/14/2024 10:22	56501	ROCK_T2	2	4	2	0.4	0.43	0.03	-2.37	-2.32	0	0	0	0	0	0
7/14/2024 10:23	66505	SMAN_T2	2	8	6	1	0.5	-0.5	0	0	0	0	0	0	0	0
7/14/2024 10:23	20403	ASHF_T2	0	0	0	0	0	0	-0.27	-0.32	0	0	0	0	0	0
7/14/2024 10:23	20401	ASHF_T2	5	6	1	0.76	0.57	-0.19	0	0	0	0	0	0	0	0
7/14/2024 10:23	66504	SMAN_T2	9	7	-2	0.83	0.38	-0.45	-0.83	-0.89	0	0	0	0	0	0
7/14/2024 10:23	20402	ASHF_T2	10	12	2	0.37	0	-0.37	0	0	0	0	0	0	0	0
7/14/2024 10:24	66504	SMAN_T2	9	7	-2	0.83	0.38	-0.45	-0.41	-0.44	0	0	0	0	0	0
7/14/2024 10:24	41602	CLEV_T1	2	6	4	0.25	0.2	-0.05	0	0	1	1	0	600	600	0
7/14/2024 10:24	66505	SMAN_T2	2	8	6	1	0.5	-0.5	0	0	0	0	0	0	0	0
7/14/2024 10:25	56801	BENV_T1	1	6	5	0.6	0.77	0.17	-1.57	-1.58	4	4	0	2400	2400	0
7/14/2024 10:25	56803	BENV_T1	4	4	0	1.6	1.13	-0.47	0	0	0	0	0	0	0	0
7/14/2024 10:26	56801	BENV_T1	1	6	5	0.6	0.77	0.17	-3.14	-3.17	8	8	0	4800	4800	0
7/14/2024 10:26	56803	BENV_T1	4	4	0	1.6	1.13	-0.47	-0.09	-0.04	1	1	0	600	600	0
7/14/2024 10:27	21201	ECAR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 10:27	46206	DANV_T2	59	19	-40	0.73	0.61	-0.12	0	0	0	0	0	0	0	0
7/14/2024 10:27	60801	BUCK_T1	0	0	0	0	0	0	-0.89	-0.83	2	2	0	1200	1200	0
7/14/2024 10:27	56803	BENV_T1	4	4	0	1.6	1.13	-0.47	0	0	0	0	0	0	0	0
7/14/2024 10:27	46203	DANV_T2	0	0	0	0	0	0	-1.58	-1.58	0	0	0	0	0	0
7/14/2024 10:27	46204	DANV_T2	4	0	-4	0.33	0	-0.33	0	0	0	0	0	0	0	0
7/14/2024 10:27	56801	BENV_T1	1	6	5	0.6	0.77	0.17	-3.93	-3.96	10	10	0	6000	6000	0
7/14/2024 10:27	21203	ECAR_T1	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
7/14/2024 10:28	56803	BENV_T1	4	4	0	1.6	1.13	-0.47	0	0	0	0	0	0	0	0
7/14/2024 10:28	56801	BENV_T1	1	6	5	0.6	0.77	0.17	-1.57	-1.58	4	4	0	2400	2400	0
7/14/2024 10:30	52002	LING_T2	0	8	8	0	0.45	0.45	-0.09	-0.03	0	0	0	0	0	0
7/14/2024 10:32	52002	LING_T2	0	8	8	0	0.45	0.45	-0.09	-0.03	0	0	0	0	0	0
7/14/2024 10:33	52004	LING_T2	0	0	0	0	0	0	0.03	0.1	0	0	0	0	0	0
7/14/2024 10:33	52002	LING_T2	0	8	8	0	0.45	0.45	0	0	0	0	0	0	0	0
7/14/2024 10:34	56504	ROCK_T2	3	6	3	0.67	0.88	0.21	0	0	0	0	0	0	0	0
7/14/2024 10:34	56501	ROCK_T2	3	14	11	0.4	0.3	-0.1	-2.37	-2.32	0	0	0	0	0	0
7/14/2024 10:35	47403	PENS_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
7/14/2024 10:35	47401	PENS_T1	9	5	-4	0.8	0.88	0.08	0.21	0.3	0	0	0	0	0	0
7/14/2024 10:37	56504	ROCK_T2	3	6	3	0.67	0.88	0.21	0	0	0	0	0	0	0	0
7/14/2024 10:37	56501	ROCK_T2	3	14	11	0.4	0.3	-0.1	-2.32	-2.26	0	0	0	0	0	0
7/14/2024 10:37	67602	WARW_T2	0	0	0	0	0	0	0.86	0.8	4	4	0	3000	3000	0
7/14/2024 10:38	67804	WLAN_T1	10	10	0	2.04	2.07	0.03	0	0	0	0	0	0	0	0
7/14/2024 10:38	56501	ROCK_T2	3	14	11	0.4	0.3	-0.1	-4.63	-4.52	0	0	0	0	0	0
7/14/2024 10:38	56504	ROCK_T2	3	6	3	0.67	0.88	0.21	0	0	0	0	0	0	0	0
7/14/2024 10:38	67801	WLAN_T1	2	25	23	0.95	0.37	-0.58	-1.2	-1.2	0	0	0	0	0	0
7/14/2024 10:38	67602	WARW_T2	0	0	0	0	0	0	0.43	0.4	2	2	0	1500	1500	0
7/14/2024 10:39	67602	WARW_T2	0	0	0	0	0	0	0.86	0.8	4	4	0	3000	3000	0
7/14/2024 10:40	67602	WARW_T2	0	0	0	0	0	0	0.86	0.8	4	4	0	3000	3000	0
7/14/2024 10:42	46204	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 10:42	20401	ASHF_T2	6	7	1	0.62	0.57	-0.05	0	0	0	0	0	0	0	0
7/14/2024 10:42	20403	ASHF_T2	0	0	0	0	0	0	-0.32	-0.26	0	0	0	0	0	0
7/14/2024 10:42	46206	DANV_T2	19	15	-4	0.56	0.72	0.16	1.1	1.01	2	2	0	2100	2100	0
7/14/2024 10:42	20402	ASHF_T2	10	10	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/14/2024 10:44	46204	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 10:44	46206	DANV_T2	19	15	-4	0.56	0.72	0.16	1.1	1.01	2	2	0	2100	2100	0
7/14/2024 10:45	67602	WARW_T2	0	0	0	0	0	0	0.43	0.4	2	2	0	1500	1500	0
7/14/2024 10:45	52002	LING_T2	8	7	-1	0.44	0	-0.44	-0.06	0.08	0	0	0	0	0	0
7/14/2024 10:46	22905	HARW_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/14/2024 10:46	52002	LING_T2	8	7	-1	0.44	0	-0.44	-0.03	0.04	0	0	0	0	0	0
7/14/2024 10:46	22903	HARW_T1	0	6	6	0	0.37	0.37	0	0	0	0	0	0	0	0
7/14/2024 10:46	22901	HARW_T1	7	15	8	0.33	0.42	0.09	-0.54	-0.3	1	1	0	1200	1200	0
7/14/2024 10:47	46803	HEPB_T2	1	1	0	0.1	0.6	0.5	0.68	0.66	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/14/2024 10:47	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 10:47	47401	PENS_T1	4	7	3	0.9	0.74	-0.16	0.3	0.37	0	0	0	0	0	0
7/14/2024 10:47	47403	PENS_T1	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/14/2024 10:47	46801	HEPB_T2	0	3	3	0	0.1	0.1	0.24	0.3	0	0	0	0	0	0
7/14/2024 10:47	52002	LING_T2	8	7	-1	0.44	0	-0.44	-0.06	0.08	0	0	0	0	0	0
7/14/2024 10:48	47403	PENS_T1	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/14/2024 10:48	64302	LINC_T2	11	5	-6	0.83	0.7	-0.13	1.49	1.49	0	0	0	0	0	0
7/14/2024 10:48	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 10:48	47401	PENS_T1	4	7	3	0.9	0.74	-0.16	0.3	0.37	0	0	0	0	0	0
7/14/2024 10:50	12301	LANA_T2	2	3	1	0.4	0.6	0.2	-0.89	-0.87	1	1	0	1200	1200	0
7/14/2024 10:50	12304	LANA_T2	8	23	15	0.43	0.45	0.02	0	0	0	0	0	0	0	0
7/14/2024 10:50	12302	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 10:50	12305	LANA_T2	6	5	-1	0.57	0.45	-0.12	0	0	0	0	0	0	0	0
7/14/2024 10:53	61102	BERK_T5	0	0	0	0	0	0	-0.77	-0.65	4	4	0	2400	2400	0
7/14/2024 10:54	61102	BERK_T5	0	0	0	0	0	0	-0.77	-0.65	4	4	0	2400	2400	0
7/14/2024 10:54	67605	WARW_T1	0	1	1	0	0.9	0.9	-0.86	-0.81	0	0	0	0	0	0
7/14/2024 10:54	67603	WARW_T1	0	0	0	0	0	0	-0.15	-0.09	0	0	0	0	0	0
7/14/2024 10:55	61102	BERK_T5	0	0	0	0	0	0	-0.39	-0.32	2	2	0	1200	1200	0
7/14/2024 10:55	67605	WARW_T1	0	1	1	0	0.9	0.9	-1.71	-0.81	0	0	0	0	0	0
7/14/2024 10:55	67605	WARW_T1	0	1	1	0	0.9	0.9	-1.71	-1.62	0	0	0	0	0	0
7/14/2024 10:55	67605	WARW_T1	0	1	1	0	0.9	0.9	-0.86	-0.81	0	0	0	0	0	0
7/14/2024 10:55	67605	WARW_T1	0	1	1	0	0.9	0.9	-0.86	-1.62	0	0	0	0	0	0
7/14/2024 10:56	67605	WARW_T1	0	1	1	0	0.9	0.9	-0.86	-0.81	0	0	0	0	0	0
7/14/2024 10:57	61102	BERK_T5	0	0	0	0	0	0	-0.77	-0.65	4	4	0	2400	2400	0
7/14/2024 10:58	61102	BERK_T5	0	0	0	0	0	0	-0.77	-0.65	4	4	0	2400	2400	0
7/14/2024 10:58	67605	WARW_T1	0	1	1	0	0.9	0.9	-0.86	-0.81	0	0	0	0	0	0
7/14/2024 10:59	63804	HEMP_T1	1	1	0	7	7.2	0.2	0	0	0	0	0	0	0	0
7/14/2024 10:59	63802	HEMP_T1	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
7/14/2024 11:04	52501	PROG_T1	0	1	1	0	0.4	0.4	-0.35	-0.43	1	1	0	300	300	0
7/14/2024 11:04	64101	REFR_T1	13	18	5	2.8	2.92	0.12	0.72	0.69	0	0	0	0	0	0
7/14/2024 11:05	48303	ORWI_T2	0	0	0	0	0	0	0.83	0.81	0	0	0	0	0	0
7/14/2024 11:05	66504	SMAN_T2	5	8	3	0.46	0.56	0.1	0	0	0	0	0	0	0	0
7/14/2024 11:05	66505	SMAN_T2	3	104	101	1.63	0.37	-1.26	0.57	0.79	4	4	0	2300	2300	0
7/14/2024 11:05	48302	ORWI_T2	5	18	13	0.46	0.32	-0.14	0	0	0	0	0	0	0	0
7/14/2024 11:06	41902	REED_T1	2	9	7	0.1	0.48	0.38	0.3	0.38	0	0	0	0	0	0
7/14/2024 11:07	43304	WATS_T2	0	4	4	0	1.4	1.4	-0.69	-0.63	0	0	0	0	0	0
7/14/2024 11:08	41902	REED_T1	2	9	7	0.1	0.48	0.38	0.38	0.34	0	0	0	0	0	0
7/14/2024 11:08	24902	WHHA_T1	3	4	1	1.43	0.4	-1.03	0.34	0.34	0	0	0	0	0	0
7/14/2024 11:09	56801	BENV_T1	5	5	0	0.76	1.05	0.29	-0.73	-0.69	2	2	0	1200	1200	0
7/14/2024 11:09	56803	BENV_T1	4	8	4	1	1.25	0.25	0	0	0	0	0	0	0	0
7/14/2024 11:09	60201	ATGL_T2	0	0	0	0	0	0	0.13	0.13	2	2	0	900	900	0
7/14/2024 11:10	43304	WATS_T2	0	4	4	0	1.4	1.4	-1.38	-1.27	0	0	0	0	0	0
7/14/2024 11:11	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.04	0	0	0	0	0	0
7/14/2024 11:11	67605	WARW_T1	1	1	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
7/14/2024 11:11	12704	MACU_T1	2	5	3	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/14/2024 11:11	43304	WATS_T2	0	4	4	0	1.4	1.4	-0.69	-0.63	0	0	0	0	0	0
7/14/2024 11:11	12701	MACU_T1	4	22	18	0.48	0.32	-0.16	-0.66	-0.65	1	1	0	1200	1200	0
7/14/2024 11:11	24902	WHHA_T1	3	4	1	1.43	0.4	-1.03	0.34	0.34	0	0	0	0	0	0
7/14/2024 11:12	67605	WARW_T1	1	1	0	0.1	0.9	0.8	-0.81	-0.73	0	0	0	0	0	0
7/14/2024 11:12	12701	MACU_T1	4	22	18	0.48	0.32	-0.16	-0.66	-0.65	1	1	0	1200	1200	0
7/14/2024 11:12	12704	MACU_T1	2	5	3	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/14/2024 11:13	67605	WARW_T1	1	1	0	0.1	0.9	0.8	-0.81	-0.73	0	0	0	0	0	0
7/14/2024 11:13	46204	DANV_T2	2	46	44	0.3	0.38	0.08	0	0	0	0	0	0	0	0
7/14/2024 11:13	44801	EDAN_T2	1	2	1	0	0.15	0.15	-1.27	-1.28	0	0	0	0	0	0
7/14/2024 11:13	46206	DANV_T2	15	50	35	0.65	0.53	-0.12	1.06	1.06	2	2	0	2100	2100	0
7/14/2024 11:13	11507	FREE_T2	10	37	27	0.55	0.51	-0.04	0.87	0.79	1	1	0	600	600	0
7/14/2024 11:13	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 11:14	44801	EDAN_T2	1	2	1	0	0.15	0.15	-1.27	-1.28	0	0	0	0	0	0
7/14/2024 11:16	25501	MADI_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/14/2024 11:16	25503	MADI_T1	2	0	-2	0.25	0	-0.25	-0.5	-0.44	0	0	0	0	0	0
7/14/2024 11:17	60502	NMAN_T2	4	3	-1	0.2	0.3	0.1	-0.89	-0.28	0	0	0	0	0	0
7/14/2024 11:17	47001	HUGH_T2	3	5	2	5.37	6.37	1	-0.89	-0.81	1	1	0	900	900	0
7/14/2024 11:17	60501	NMAN_T2	3	3	0	4.2	3.97	-0.23	0	0	0	0	0	0	0	0
7/14/2024 11:18	47001	HUGH_T2	3	5	2	5.37	6.37	1	-0.89	-0.81	1	1	0	900	900	0
7/14/2024 11:19	41902	REED_T1	5	12	7	0.72	0.5	-0.22	0.38	0.34	0	0	0	0	0	0
7/14/2024 11:21	66504	SMAN_T2	8	8	0	1.54	0.86	-0.68	0	0	0	0	0	0	0	0
7/14/2024 11:21	66505	SMAN_T2	49	138	89	0.39	0.36	-0.03	0.63	0.75	4	4	0	2300	2300	0
7/14/2024 11:21	66503	SMAN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 11:22	14802	TREI_T2	1	4	3	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/14/2024 11:22	60502	NMAN_T2	4	3	-1	0.2	0.3	0.1	-0.28	-0.24	0	0	0	0	0	0
7/14/2024 11:22	14801	TREI_T2	196	216	20	1.56	1.51	-0.05	0	0	0	0	0	0	0	0
7/14/2024 11:22	60501	NMAN_T2	3	3	0	4.2	3.97	-0.23	0	0	0	0	0	0	0	0
7/14/2024 11:22	55408	SHER_T2	1	2	1	1.8	1.7	-0.1	-0.94	-0.94	1	1	0	1200	1200	0
7/14/2024 11:22	41902	REED_T1	5	12	7	0.72	0.5	-0.22	0.34	0.37	0	0	0	0	0	0
7/14/2024 11:24	42701	AUGU_T1	14	59	45	0.45	0.6	0.15	0	0	2	2	0	1800	1800	0
7/14/2024 11:25	16301	ALPA_T1	0	0	0	0	0	0	0.76	0.75	0	0	0	0	0	0
7/14/2024 11:27	42701	AUGU_T1	14	59	45	0.45	0.6	0.15	0	0	4	4	0	3600	3600	0
7/14/2024 11:31	47101	MARL_T1	40	79	39	0.99	1.07	0.08	-1.54	-1.34	2	2	0	1200	1200	0
7/14/2024 11:32	12803	MICK_T1	0	0	0	0	0	0	0.41	0.36	1	1	0	1200	1200	0
7/14/2024 11:33	47402	PENS_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/14/2024 11:33	47403	PENS_T1	2	1	-1	1.2	0.6	-0.6	0	0	0	0	0	0	0	0
7/14/2024 11:33	47101	MARL_T1	40	79	39	0.99	1.07	0.08	-0.77	-0.67	1	1	0	600	600	0
7/14/2024 11:33	47401	PENS_T1	6	7	1	0.82	0.63	-0.19	0.99	0.98	0	0	0	0	0	0
7/14/2024 11:34	47403	PENS_T1	2	1	-1	1.2	0.6	-0.6	0	0	0	0	0	0	0	0
7/14/2024 11:34	56501	ROCK_T2	7	5	-2	0.33	0.73	0.4	0	0	0	0	0	0	0	0
7/14/2024 11:34	47402	PENS_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/14/2024 11:34	56504	ROCK_T2	9	11	2	1.23	1.08	-0.15	1.31	1.24	0	0	0	0	0	0
7/14/2024 11:34	47401	PENS_T1	6	7	1	0.82	0.63	-0.19	0.49	0.49	0	0	0	0	0	0
7/14/2024 11:35	47403	PENS_T1	2	1	-1	1.2	0.6	-0.6	0	0	0	0	0	0	0	0
7/14/2024 11:35	56501	ROCK_T2	7	5	-2	0.33	0.73	0.4	0	0	0	0	0	0	0	0
7/14/2024 11:35	66901	SHIL_T2	0	0	0	0	0	0	-0.55	-0.56	1	1	0	1200	1200	0
7/14/2024 11:35	56504	ROCK_T2	9	11	2	1.23	1.08	-0.15	0.65	0.62	0	0	0	0	0	0
7/14/2024 11:35	46302	ROHR_T1	5	10	5	0.54	0.62	0.08	0.4	0.39	0	0	0	0	0	0
7/14/2024 11:35	47402	PENS_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/14/2024 11:35	47101	MARL_T1	40	79	39	0.99	1.07	0.08	-0.77	-0.67	1	1	0	600	600	0
7/14/2024 11:35	47401	PENS_T1	6	7	1	0.82	0.63	-0.19	0.49	0.49	0	0	0	0	0	0
7/14/2024 11:36	65001	NEFF_T2	0	0	0	0	0	0	-0.08	-0.19	1	1	0	1200	1200	0
7/14/2024 11:37	47402	PENS_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/14/2024 11:37	47403	PENS_T1	2	1	-1	1.2	0.6	-0.6	0	0	0	0	0	0	0	0
7/14/2024 11:37	47401	PENS_T1	6	7	1	0.82	0.63	-0.19	0.49	0.51	0	0	0	0	0	0
7/14/2024 11:38	55103	WERT_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
7/14/2024 11:38	46302	ROHR_T1	5	10	5	0.54	0.62	0.08	0	0	0	0	0	0	0	0
7/14/2024 11:38	47401	PENS_T1	6	7	1	0.82	0.63	-0.19	0.49	0.51	0	0	0	0	0	0
7/14/2024 11:38	55101	WERT_T1	0	0	0	0	0	0	-2.37	-2.45	4	4	0	3300	3300	0
7/14/2024 11:38	47402	PENS_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/14/2024 11:38	47403	PENS_T1	2	1	-1	1.2	0.6	-0.6	0	0	0	0	0	0	0	0
7/14/2024 11:38	46301	ROHR_T1	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0	0
7/14/2024 11:38	56504	ROCK_T2	9	11	2	1.23	1.08	-0.15	1.24	1.19	0	0	0	0	0	0
7/14/2024 11:38	55105	WERT_T1	1	6	5	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/14/2024 11:38	56501	ROCK_T2	7	5	-2	0.33	0.73	0.4	0	0	0	0	0	0	0	0
7/14/2024 11:39	56501	ROCK_T2	7	5	-2	0.33	0.73	0.4	-2.1	-2.09	0	0	0	0	0	0
7/14/2024 11:39	56504	ROCK_T2	9	11	2	1.23	1.08	-0.15	0	0	0	0	0	0	0	0
7/14/2024 11:40	44801	EDAN_T2	2	3	1	0.55	0.95	0.4	-1.25	-1.25	0	0	0	0	0	0
7/14/2024 11:40	16302	ALPA_T2	0	1	1	0	0.3	0.3	-0.06	0.01	0	0	0	0	0	0
7/14/2024 11:41	16302	ALPA_T2	0	1	1	0	0.3	0.3	-0.03	0.01	0	0	0	0	0	0
7/14/2024 11:42	16302	ALPA_T2	0	1	1	0	0.3	0.3	-0.03	0.01	0	0	0	0	0	0
7/14/2024 11:42	29402	BELT_T1	44	36	-8	0.89	0.61	-0.28	0	0	0	0	0	0	0	0
7/14/2024 11:42	44801	EDAN_T2	2	3	1	0.55	0.95	0.4	-1.25	-1.25	0	0	0	0	0	0
7/14/2024 11:42	29401	BELT_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/14/2024 11:43	40902	JESH_T1	0	0	0	0	0	0	-1.19	-1.15	2	2	0	1200	1200	0
7/14/2024 11:43	40901	JESH_T1	1	3	2	2.2	1.8	-0.4	0	0	0	0	0	0	0	0
7/14/2024 11:43	56501	ROCK_T2	7	5	-2	0.33	0.73	0.4	0	0	0	0	0	0	0	0
7/14/2024 11:43	56504	ROCK_T2	9	11	2	1.23	1.08	-0.15	0.62	0.6	0	0	0	0	0	0
7/14/2024 11:45	29401	BELT_T1	1	5	4	0.1	0.22	0.12	0	0	0	0	0	0	0	0
7/14/2024 11:45	29402	BELT_T1	32	40	8	0.63	0.86	0.23	0	0	0	0	0	0	0	0
7/14/2024 11:47	57304	MOAL_T2	22	23	1	0.63	0.45	-0.18	-0.89	-0.71	0	0	0	0	0	0
7/14/2024 11:47	57306	MOAL_T2	2	0	-2	4.75	0	-4.75	0	0	0	0	0	0	0	0
7/14/2024 11:47	57303	MOAL_T2	1	1	0	9.5	9	-0.5	0	0	0	0	0	0	0	0
7/14/2024 11:47	57301	MOAL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/14/2024 11:48	12801	MICK_T1	0	0	0	0	0	0	-0.46	-0.42	1	1	0	600	600	0
7/14/2024 11:49	47401	PENS_T1	5	8	3	0.72	0.89	0.17	0.49	0.51	0	0	0	0	0	0
7/14/2024 11:49	44203	POIN_T2	8	9	1	2.58	1.9	-0.68	0.62	0.39	1	1	0	900	900	0
7/14/2024 11:49	47403	PENS_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/14/2024 11:49	47402	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/14/2024 11:50	40602	PIGR_T1	2	6	4	1	2.1	1.1	-1.01	-0.97	1	1	0	600	600	0
7/14/2024 11:50	40601	PIGR_T1	14	12	-2	0.41	0.41	0	0	0	0	0	0	0	0	0
7/14/2024 11:50	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0.98	0.96	0	0	0	0	0	0
7/14/2024 11:50	40603	PIGR_T1	35	43	8	0.42	0.58	0.16	0	0	0	0	0	0	0	0
7/14/2024 11:50	65601	QVIL_T2	6	6	0	0.18	0.2	0.02	0	0	0	0	0	0	0	0
7/14/2024 11:52	66703	STRA_T1	98	96	-2	0.62	0.71	0.09	-0.3	-0.27	0	0	0	0	0	0
7/14/2024 11:52	66701	STRA_T1	31	31	0	1.93	0.51	-1.42	0	0	0	0	0	0	0	0
7/14/2024 11:58	22905	HARW_T1	4	18	14	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/14/2024 11:58	22903	HARW_T1	11	22	11	0.66	0.96	0.3	0	0	0	0	0	0	0	0
7/14/2024 11:58	22901	HARW_T1	30	43	13	0.76	0.61	-0.15	-0.36	-0.36	1	1	0	1200	1200	0
7/14/2024 11:59	61306	EARL_T1	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
7/14/2024 12:00	52006	LING_T2	3	4	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
7/14/2024 12:00	52002	LING_T2	1	10	9	0.3	0.8	0.5	0	0	0	0	0	0	0	0
7/14/2024 12:00	52004	LING_T2	1	1	0	1.5	1.3	-0.2	0.21	0.22	0	0	0	0	0	0
7/14/2024 12:01	64704	LITI_T1	0	0	0	0	0	0	0.44	0.48	1	1	0	600	600	0
7/14/2024 12:01	22901	HARW_T1	39	38	-1	0.67	0.72	0.05	-0.36	-0.36	1	1	0	1200	1200	0
7/14/2024 12:01	64701	LITI_T1	22	29	7	1.84	1.67	-0.17	0	0	0	0	0	0	0	0
7/14/2024 12:01	22903	HARW_T1	21	22	1	0.96	1.58	0.62	0	0	0	0	0	0	0	0
7/14/2024 12:01	22905	HARW_T1	0	19	19	0	1.04	1.04	0	0	0	0	0	0	0	0
7/14/2024 12:01	47403	PENS_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/14/2024 12:01	47401	PENS_T1	7	11	4	0.97	0.79	-0.18	0.51	0.54	0	0	0	0	0	0
7/14/2024 12:02	40903	JESH_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 12:02	40902	JESH_T1	0	0	0	0	0	0	-1.15	-1.13	2	2	0	1200	1200	0
7/14/2024 12:02	40901	JESH_T1	3	3	0	0.87	1	0.13	0	0	0	0	0	0	0	0
7/14/2024 12:02	64302	LINC_T2	16	27	11	0.51	0.48	-0.03	1.6	1.6	0	0	0	0	0	0
7/14/2024 12:03	25503	MADI_T1	0	2	2	0	0	0	-0.44	-0.38	0	0	0	0	0	0
7/14/2024 12:03	25501	MADI_T1	1	2	1	3.7	0.2	-3.5	0	0	0	0	0	0	0	0
7/14/2024 12:04	67602	WARW_T2	0	2	2	0	1	1	0.15	0.16	2	2	0	1500	1500	0
7/14/2024 12:06	59101	WALK_T2	0	5	5	0	0	0	0.32	0.31	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/14/2024 12:06	65604	QVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 12:06	65601	QVIL_T2	2	13	11	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
7/14/2024 12:06	65603	QVIL_T2	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
7/14/2024 12:06	57104	SPHI_T2	0	0	0	0	0	0	-1.85	-1.83	1	1	0	900	900	0
7/14/2024 12:06	64802	MONE_T2	2	3	1	0.15	6.57	6.42	-1.46	-1.45	0	0	0	0	0	0
7/14/2024 12:06	57101	SPHI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/14/2024 12:06	64801	MONE_T2	43	63	20	0.63	0.54	-0.09	0	0	0	0	0	0	0	0
7/14/2024 12:07	14401	SSLA_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/14/2024 12:07	14404	SSLA_T1	11	3	-8	0.38	0.55	0.17	0	0	0	0	0	0	0	0
7/14/2024 12:07	14403	SSLA_T1	8	9	1	0.89	1.04	0.15	0.25	0.22	2	2	0	1200	1200	0
7/14/2024 12:08	14401	SSLA_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/14/2024 12:08	43301	WATS_T2	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/14/2024 12:08	14403	SSLA_T1	8	9	1	0.89	1.04	0.15	0.25	0.22	2	2	0	1200	1200	0
7/14/2024 12:08	14404	SSLA_T1	11	3	-8	0.38	0.55	0.17	0	0	0	0	0	0	0	0
7/14/2024 12:08	43304	WATS_T2	3	16	13	0.4	0.55	0.15	-1.09	-1.04	0	0	0	0	0	0
7/14/2024 12:08	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/14/2024 12:09	66504	SMAN_T2	7	8	1	0.9	0.91	0.01	0	0	0	0	0	0	0	0
7/14/2024 12:09	66503	SMAN_T2	3	8	5	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
7/14/2024 12:09	66505	SMAN_T2	174	197	23	0.46	0.38	-0.08	0.74	0.61	4	4	0	2300	2300	0
7/14/2024 12:10	66503	SMAN_T2	3	8	5	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
7/14/2024 12:10	66504	SMAN_T2	7	8	1	0.9	0.91	0.01	0	0	0	0	0	0	0	0
7/14/2024 12:10	66505	SMAN_T2	174	197	23	0.46	0.38	-0.08	0.74	0.61	4	4	0	2300	2300	0
7/14/2024 12:11	43301	WATS_T2	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/14/2024 12:11	43304	WATS_T2	3	16	13	0.4	0.55	0.15	-0.55	-0.52	0	0	0	0	0	0
7/14/2024 12:15	52403	GRPA_T2	113	210	97	1.36	1.33	-0.03	0	0	0	0	0	0	0	0
7/14/2024 12:15	52404	GRPA_T2	0	3	3	0	0.2	0.2	-0.34	-0.38	0	0	0	0	0	0
7/14/2024 12:15	52402	GRPA_T2	25	82	57	0.56	0.52	-0.04	0	0	0	0	0	0	0	0
7/14/2024 12:15	52401	GRPA_T2	48	140	92	0.57	0.64	0.07	0	0	0	0	0	0	0	0
7/14/2024 12:23	64101	REFR_T1	12	26	14	2.82	3.39	0.57	0.27	0.26	0	0	0	0	0	0
7/14/2024 12:24	43304	WATS_T2	11	39	28	0.58	0.79	0.21	-0.52	-0.52	0	0	0	0	0	0
7/14/2024 12:24	43301	WATS_T2	0	8	8	0	0.7	0.7	0	0	0	0	0	0	0	0
7/14/2024 12:26	61102	BERK_T5	0	0	0	0	0	0	-0.15	-0.21	2	2	0	1200	1200	0
7/14/2024 12:26	61101	BERK_T5	4	11	7	0.25	1.13	0.88	0	0	0	0	0	0	0	0
7/14/2024 12:29	28805	LAKE_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
7/14/2024 12:30	62104	ELAN_T1	0	8	8	0	0.47	0.47	0	0	0	0	0	0	0	0
7/14/2024 12:30	47104	MARL_T1	9	15	6	0.3	0.36	0.06	0	0	0	0	0	0	0	0
7/14/2024 12:30	62102	ELAN_T1	1	1	0	0.2	0	-0.2	-0.1	-0.06	0	0	0	0	0	0
7/14/2024 12:30	47101	MARL_T1	87	189	102	1.34	1.25	-0.09	-0.7	-0.6	1	1	0	600	600	0
7/14/2024 12:31	11402	FARM_T1	6	5	-1	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
7/14/2024 12:31	11406	FARM_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
7/14/2024 12:31	11405	FARM_T1	1	1	0	0.1	0	-0.1	0.08	-0.76	1	1	0	1200	1200	0
7/14/2024 12:31	11404	FARM_T1	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
7/14/2024 12:32	47001	HUGH_T2	13	13	0	1.89	2.39	0.5	-0.73	-0.69	1	1	0	900	900	0
7/14/2024 12:32	52004	LING_T2	1	2	1	1.8	0.4	-1.4	0.22	0.25	0	0	0	0	0	0
7/14/2024 12:32	47002	HUGH_T2	1	5	4	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
7/14/2024 12:32	55001	NEWP_T1	50	62	12	0.71	1	0.29	-0.15	-0.05	0	0	0	0	0	0
7/14/2024 12:32	55002	NEWP_T1	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
7/14/2024 12:32	52002	LING_T2	9	37	28	0.23	0.27	0.04	0	0	0	0	0	0	0	0
7/14/2024 12:32	52006	LING_T2	4	3	-1	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
7/14/2024 12:33	47101	MARL_T1	87	189	102	1.34	1.25	-0.09	-0.7	-0.6	1	1	0	600	600	0
7/14/2024 12:33	47104	MARL_T1	9	15	6	0.3	0.36	0.06	0	0	0	0	0	0	0	0
7/14/2024 12:33	66901	SHIL_T2	0	0	0	0	0	0	-1.18	-1.15	1	1	0	1200	1200	0
7/14/2024 12:34	47104	MARL_T1	9	15	6	0.3	0.36	0.06	0	0	0	0	0	0	0	0
7/14/2024 12:34	47101	MARL_T1	87	189	102	1.34	1.25	-0.09	-0.7	-0.6	1	1	0	600	600	0
7/14/2024 12:34	64302	LINC_T2	25	70	45	0.51	0.46	-0.05	1.63	1.61	0	0	0	0	0	0
7/14/2024 12:34	64304	LINC_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 12:35	41902	REED_T1	45	151	106	0.51	0.55	0.04	0.44	0.5	0	0	0	0	0	0
7/14/2024 12:35	65901	SAKR_T2	9	12	3	0.87	0.63	-0.24	-0.15	-0.08	2	2	0	1500	1500	0
7/14/2024 12:36	65901	SAKR_T2	9	12	3	0.87	0.63	-0.24	-0.08	-0.22	2	2	0	1500	1500	0
7/14/2024 12:36	47104	MARL_T1	9	15	6	0.3	0.36	0.06	0	0	0	0	0	0	0	0
7/14/2024 12:36	47101	MARL_T1	87	189	102	1.34	1.25	-0.09	-0.7	-0.6	1	1	0	600	600	0
7/14/2024 12:36	55002	NEWP_T1	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
7/14/2024 12:36	55001	NEWP_T1	50	62	12	0.71	1	0.29	-0.31	-0.11	0	0	0	0	0	0
7/14/2024 12:38	58003	WCAR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/14/2024 12:38	13601	RICH_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/14/2024 12:38	13606	RICH_T2	4	3	-1	2.55	2.47	-0.08	0.29	0.29	0	0	0	0	0	0
7/14/2024 12:38	58001	WCAR_T1	0	0	0	0	0	0	-0.83	-0.77	0	0	0	0	0	0
7/14/2024 12:39	67804	WLAN_T1	11	10	-1	3.47	4.18	0.71	0	0	0	0	0	0	0	0
7/14/2024 12:39	66202	SISP_T2	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
7/14/2024 12:39	66203	SISP_T2	3	1	-2	0.83	0	-0.83	0	0	0	0	0	0	0	0
7/14/2024 12:39	67803	WLAN_T1	4	8	4	1.15	0.2	-0.95	-0.65	-0.63	0	0	0	0	0	0
7/14/2024 12:39	67801	WLAN_T1	25	35	10	0.35	0.39	0.04	0	0	0	0	0	0	0	0
7/14/2024 12:39	67802	WLAN_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
7/14/2024 12:39	66701	STRA_T1	22	59	37	0.83	0.79	-0.04	0	0	0	0	0	0	0	0
7/14/2024 12:39	66703	STRA_T1	70	115	45	0.51	0.57	0.06	-0.3	-0.17	0	0	0	0	0	0
7/14/2024 12:40	57001	WHHI_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/14/2024 12:40	57003	WHHI_T2	14	14	0	1.01	1.56	0.55	0	0	0	0	0	0	0	0
7/14/2024 12:40	57004	WHHI_T2	1	3	2	2.6	3.2	0.6	-1.15	-1.14	0	0	0	0	0	0
7/14/2024 12:40	66203	SISP_T2	3	1	-2	0.83	0	-0.83	-0.71	-1.16	1	2	1	1200	1800	600
7/14/2024 12:41	55105	WERT_T1	5	1	-4	0.28	0.1	-0.18	0.13	0.16	1	1	0	900	900	0
7/14/2024 12:41	55103	WERT_T1	1	1	0	1	2.4	1.4	0	0	0	0	0	0	0	0
7/14/2024 12:41	58801	COCO_T2	0	0	0	0	0	0	-1.29	-1.34	2	2	0	2400	2400	0
7/14/2024 12:41	58803	COCO_T1	39	63	24	0.37	0.34	-0.03	-1.05	-0.81	2	2	0	1200	1200	0
7/14/2024 12:41	67201	TEHI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/14/2024 12:41	58802	COCO_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/14/2024 12:41	67203	TEHI_T1	0	0	0	0	0	0	1.46	1.47	1	1	0	900	900	0
7/14/2024 12:42	46206	DANV_T2	63	86	23	0.81	0.94	0.13	0	0	0	0	0	0	0	0
7/14/2024 12:42	46203	DANV_T2	0	1	1	0	0.1	0.1	-2.22	-2.16	0	0	0	0	0	0
7/14/2024 12:42	46204	DANV_T2	126	141	15	0.52	0.84	0.32	0	0	0	0	0	0	0	0
7/14/2024 12:43	46206	DANV_T2	63	86	23	0.81	0.94	0.13	0	0	0	0	0	0	0	0
7/14/2024 12:43	46203	DANV_T2	0	1	1	0	0.1	0.1	-2.22	-2.16	0	0	0	0	0	0
7/14/2024 12:43	46204	DANV_T2	126	141	15	0.52	0.84	0.32	0	0	0	0	0	0	0	0
7/14/2024 12:44	46206	DANV_T2	63	86	23	0.81	0.94	0.13	0	0	0	0	0	0	0	0
7/14/2024 12:44	46204	DANV_T2	126	141	15	0.52	0.84	0.32	0	0	0	0	0	0	0	0
7/14/2024 12:44	46203	DANV_T2	0	1	1	0	0.1	0.1	-2.22	-2.16	0	0	0	0	0	0
7/14/2024 12:45	46204	DANV_T2	140	135	-5	0.94	0.64	-0.3	0	0	0	0	0	0	0	0
7/14/2024 12:45	46206	DANV_T2	82	81	-1	1.02	0.77	-0.25	0	0	0	0	0	0	0	0
7/14/2024 12:45	46203	DANV_T2	0	4	4	0	0.2	0.2	-2.22	-2.16	0	0	0	0	0	0
7/14/2024 12:46	61304	EARL_T1	0	8	8	0	0.14	0.14	0.58	0.56	1	1	0	600	600	0
7/14/2024 12:48	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 12:48	42902	MIDD_T2	15	27	12	0.79	0.66	-0.13	-1.65	-1.59	2	2	0	1200	1200	0
7/14/2024 12:48	42901	MIDD_T2	20	31	11	0.74	0.81	0.07	0	0	0	0	0	0	0	0
7/14/2024 12:51	66201	SISP_T2	0	0	0	0	0	0	-1.11	-1.12	0	0	0	0	0	0
7/14/2024 12:51	64802	MONE_T2	1	0	-1	0.1	0	-0.1	-1.43	-1.4	0	0	0	0	0	0
7/14/2024 12:51	64801	MONE_T2	58	86	28	0.64	0.78	0.14	0	0	0	0	0	0	0	0
7/14/2024 12:51	66202	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 12:51	66203	SISP_T2	1	0	-1	3.6	0	-3.6	0	0	0	0	0	0	0	0
7/14/2024 12:52	42901	MIDD_T2	20	31	11	0.74	0.81	0.07	0	0	0	0	0	0	0	0
7/14/2024 12:52	42902	MIDD_T2	15	27	12	0.79	0.66	-0.13	-1.59	-1.59	2	2	0	1200	1200	0
7/14/2024 12:52	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 12:53	55103	WERT_T1	1	1	0	2.4	1.5	-0.9	0	0	0	0	0	0	0	0
7/14/2024 12:53	46302	ROHR_T1	4	10	6	0.73	0.61	-0.12	0.9	0.94	0	0	0	0	0	0
7/14/2024 12:53	46301	ROHR_T1	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/14/2024 12:53	55105	WERT_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/14/2024 12:53	55101	WERT_T1	0	0	0	0	0	0	-4.55	-4.59	8	8	0	6600	6600	0
7/14/2024 12:54	66505	SMAN_T2	312	384	72	0.66	0.47	-0.19	0	0	0	0	0	0	0	0
7/14/2024 12:54	56801	BENV_T1	1	9	8	1	0.67	-0.33	-0.53	-0.52	2	2	0	1200	1200	0
7/14/2024 12:54	66504	SMAN_T2	9	9	0	1.08	1.16	0.08	-0.12	-0.02	0	0	0	0	0	0
7/14/2024 12:54	66503	SMAN_T2	13	18	5	0.42	0.92	0.5	0	0	0	0	0	0	0	0
7/14/2024 12:54	56803	BENV_T1	14	12	-2	1.01	1.03	0.02	0	0	0	0	0	0	0	0
7/14/2024 12:55	61703	ELIZ_T1	0	1	1	0	0	0	-2.06	-2.04	2	2	0	2100	2100	0
7/14/2024 12:55	20401	ASHF_T2	17	32	15	0.92	0.65	-0.27	0	0	0	0	0	0	0	0
7/14/2024 12:55	20403	ASHF_T2	4	28	24	0.4	0.87	0.47	-0.16	-0.15	0	0	0	0	0	0
7/14/2024 12:55	20402	ASHF_T2	7	14	7	0.44	1.07	0.63	0	0	0	0	0	0	0	0
7/14/2024 12:55	61701	ELIZ_T1	1	2	1	1.6	0.95	-0.65	0	0	0	0	0	0	0	0
7/14/2024 12:56	20403	ASHF_T2	4	28	24	0.4	0.87	0.47	-0.16	-0.15	0	0	0	0	0	0
7/14/2024 12:56	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 12:56	42901	MIDD_T2	20	31	11	0.74	0.81	0.07	0	0	0	0	0	0	0	0
7/14/2024 12:56	42902	MIDD_T2	15	27	12	0.79	0.66	-0.13	-0.8	-0.8	1	1	0	600	600	0
7/14/2024 12:56	20401	ASHF_T2	17	32	15	0.92	0.65	-0.27	0	0	0	0	0	0	0	0
7/14/2024 12:56	20402	ASHF_T2	7	14	7	0.44	1.07	0.63	0	0	0	0	0	0	0	0
7/14/2024 12:57	61701	ELIZ_T1	1	2	1	1.6	0.95	-0.65	0	0	0	0	0	0	0	0
7/14/2024 12:57	61703	ELIZ_T1	0	1	1	0	0	0	-4.12	-4.08	4	4	0	4200	4200	0
7/14/2024 12:59	61703	ELIZ_T1	0	1	1	0	0	0	-4.12	-4.08	4	4	0	4200	4200	0
7/14/2024 12:59	61701	ELIZ_T1	1	2	1	1.6	0.95	-0.65	0	0	0	0	0	0	0	0
7/14/2024 13:00	20601	GRWO_T2	13	47	34	0.39	0.44	0.05	0.19	0.2	0	0	0	0	0	0
7/14/2024 13:01	12002	HATF_T1	0	0	0	0	0	0	-0.62	-0.87	1	1	0	1200	1200	0
7/14/2024 13:01	20601	GRWO_T2	13	47	34	0.39	0.44	0.05	0.19	0.2	0	0	0	0	0	0
7/14/2024 13:01	12001	HATF_T1	6	0	-6	0.63	0	-0.63	0	0	0	0	0	0	0	0
7/14/2024 13:02	42901	MIDD_T2	31	20	-11	0.76	0.89	0.13	0	0	0	0	0	0	0	0
7/14/2024 13:02	42903	MIDD_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/14/2024 13:02	42902	MIDD_T2	27	28	1	0.96	0.67	-0.29	-0.8	-0.8	1	1	0	600	600	0
7/14/2024 13:02	25402	LAHA_T2	5	8	3	0.32	0.53	0.21	-0.13	-0.05	0	0	0	0	0	0
7/14/2024 13:03	43201	MVIL_T2	2	2	0	1.1	1.85	0.75	0	0	0	0	0	0	0	0
7/14/2024 13:03	52002	LING_T2	17	8	-9	0.3	0	-0.3	-0.45	-0.39	1	1	0	900	900	0
7/14/2024 13:03	52004	LING_T2	1	3	2	0.4	0.4	0	0	0	0	0	0	0	0	0
7/14/2024 13:03	52006	LING_T2	3	3	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/14/2024 13:03	43202	MVIL_T2	2	2	0	1.2	0.5	-0.7	-0.8	-0.84	0	0	0	0	0	0
7/14/2024 13:04	43201	MVIL_T2	2	2	0	1.1	1.85	0.75	0	0	0	0	0	0	0	0
7/14/2024 13:04	43202	MVIL_T2	2	2	0	1.2	0.5	-0.7	-0.4	-0.42	0	0	0	0	0	0
7/14/2024 13:05	64101	REFR_T1	23	19	-4	1.82	2.87	1.05	0.29	0.27	0	0	0	0	0	0
7/14/2024 13:06	14705	TREX_T1	5	0	-5	0.2	0	-0.2	0.57	0.62	0	0	0	0	0	0
7/14/2024 13:06	42001	MNVL_T2	1	10	9	0.4	0.18	-0.22	0	0	0	0	0	0	0	0
7/14/2024 13:06	42002	MNVL_T2	1	1	0	2.9	3.1	0.2	-1.35	-1.35	0	0	0	0	0	0
7/14/2024 13:06	14801	TREI_T2	219	226	7	2.13	2.16	0.03	0	0	0	0	0	0	0	0
7/14/2024 13:06	14802	TREI_T2	7	5	-2	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
7/14/2024 13:07	58706	ROSE_T2	3	3	0	1.4	3.4	2	0.24	0.32	1	1	0	600	600	0
7/14/2024 13:07	58705	ROSE_T2	1	2	1	1.5	0.1	-1.4	0	0	0	0	0	0	0	0
7/14/2024 13:07	58702	ROSE_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/14/2024 13:07	42601	TUSC_T1	3	1	-2	0.43	0	-0.43	-1.07	-0.99	2	2	0	1800	1800	0
7/14/2024 13:07	58701	ROSE_T2	6	7	1	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
7/14/2024 13:07	65205	PRIN_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
7/14/2024 13:07	65901	SAKR_T2	11	21	10	0.65	0.66	0.01	0.03	-0.11	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/14/2024 13:08	58705	ROSE_T2	1	2	1	1.5	0.1	-1.4	0	0	0	0	0	0	0	0
7/14/2024 13:08	58706	ROSE_T2	3	3	0	1.4	3.4	2	0	0	0	0	0	0	0	0
7/14/2024 13:08	58701	ROSE_T2	6	7	1	0.33	0.2	-0.13	-1.45	-1.35	1	1	0	600	600	0
7/14/2024 13:08	14705	TREX_T1	5	0	-5	0.2	0	-0.2	0.57	0.62	0	0	0	0	0	0
7/14/2024 13:08	58702	ROSE_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/14/2024 13:09	24902	WHHA_T1	19	54	35	0.46	0.36	-0.1	0.8	0.88	0	0	0	0	0	0
7/14/2024 13:09	55105	WERT_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/14/2024 13:09	55101	WERT_T1	0	0	0	0	0	0	-2.29	-2.31	4	4	0	3300	3300	0
7/14/2024 13:09	55103	WERT_T1	1	1	0	3.9	0.2	-3.7	0	0	0	0	0	0	0	0
7/14/2024 13:10	67803	WLAN_T1	6	22	16	0.53	0.71	0.18	0	0	0	0	0	0	0	0
7/14/2024 13:10	67802	WLAN_T1	3	4	1	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
7/14/2024 13:10	59202	THOM_T1	2	6	4	0.15	0.35	0.2	0	0	0	0	0	0	0	0
7/14/2024 13:10	67801	WLAN_T1	29	119	90	0.6	0.93	0.33	-1.68	-1.81	0	0	0	0	0	0
7/14/2024 13:10	14801	TREI_T2	219	226	7	2.13	2.16	0.03	0	0	0	0	0	0	0	0
7/14/2024 13:10	14802	TREI_T2	7	5	-2	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
7/14/2024 13:10	67804	WLAN_T1	10	13	3	4.19	3.73	-0.46	0	0	0	0	0	0	0	0
7/14/2024 13:11	20401	ASHF_T2	30	32	2	0.83	0.6	-0.23	0	0	0	0	0	0	0	0
7/14/2024 13:11	20403	ASHF_T2	3	40	37	0.87	0.24	-0.63	-0.15	-0.06	0	0	0	0	0	0
7/14/2024 13:11	20402	ASHF_T2	9	19	10	1.51	0.8	-0.71	0	0	0	0	0	0	0	0
7/14/2024 13:12	67605	WARW_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
7/14/2024 13:12	67603	WARW_T1	0	0	0	0	0	0	-2.36	-2.28	0	0	0	0	0	0
7/14/2024 13:13	20401	ASHF_T2	30	32	2	0.83	0.6	-0.23	0	0	0	0	0	0	0	0
7/14/2024 13:13	20403	ASHF_T2	3	40	37	0.87	0.24	-0.63	-0.15	-0.06	0	0	0	0	0	0
7/14/2024 13:13	20402	ASHF_T2	9	19	10	1.51	0.8	-0.71	0	0	0	0	0	0	0	0
7/14/2024 13:14	42901	MIDD_T2	31	20	-11	0.76	0.89	0.13	0	0	0	0	0	0	0	0
7/14/2024 13:14	42902	MIDD_T2	27	28	1	0.96	0.67	-0.29	-0.8	-0.8	1	1	0	600	600	0
7/14/2024 13:14	58803	COCO_T1	59	144	85	0.28	0.43	0.15	-0.45	-0.39	1	1	0	600	600	0
7/14/2024 13:14	42903	MIDD_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/14/2024 13:15	62105	ELAN_T1	0	3	3	0	0.25	0.25	0	0	0	0	0	0	0	0
7/14/2024 13:15	62104	ELAN_T1	3	1	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/14/2024 13:15	62102	ELAN_T1	1	5	4	0.4	0.3	-0.1	-0.05	0.12	0	0	0	0	0	0
7/14/2024 13:16	51804	EBEN_T2	4	13	9	0.5	0.53	0.03	0	0	0	0	0	0	0	0
7/14/2024 13:16	51802	EBEN_T2	19	23	4	1.12	1.19	0.07	-0.06	-0.06	1	1	0	900	900	0
7/14/2024 13:17	47104	MARL_T1	9	26	17	0.31	0.43	0.12	0	0	0	0	0	0	0	0
7/14/2024 13:17	40101	HUNT_T2	291	352	61	0.79	0.68	-0.11	-0.19	-0.17	0	0	0	0	0	0
7/14/2024 13:17	47101	MARL_T1	176	254	78	1.16	1.21	0.05	-0.59	-0.5	1	1	0	600	600	0
7/14/2024 13:18	47104	MARL_T1	9	26	17	0.31	0.43	0.12	0	0	0	0	0	0	0	0
7/14/2024 13:18	47101	MARL_T1	176	254	78	1.16	1.21	0.05	-0.59	-0.5	1	1	0	600	600	0
7/14/2024 13:18	40101	HUNT_T2	291	352	61	0.79	0.68	-0.11	-0.19	-0.17	0	0	0	0	0	0
7/14/2024 13:19	13103	NHAM_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 13:19	13105	NHAM_T2	55	93	38	0.91	0.79	-0.12	-1.56	-1.51	1	1	0	1200	1200	0
7/14/2024 13:19	13102	NHAM_T2	2	4	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/14/2024 13:20	56504	ROCK_T2	49	79	30	0.6	0.74	0.14	0	0	0	0	0	0	0	0
7/14/2024 13:20	56501	ROCK_T2	6	7	1	0.48	0.3	-0.18	-3.73	-3.77	0	0	0	0	0	0
7/14/2024 13:20	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 13:21	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 13:21	42902	MIDD_T2	25	28	3	0.67	1.09	0.42	-0.8	-0.8	1	1	0	600	600	0
7/14/2024 13:21	42901	MIDD_T2	13	24	11	0.81	0.84	0.03	0	0	0	0	0	0	0	0
7/14/2024 13:21	54601	SUMM_T2	4	8	4	0.45	0.5	0.05	0	0	6	6	0	6000	6000	0
7/14/2024 13:21	54602	SUMM_T2	9	16	7	0.7	0.39	-0.31	0	0	0	0	0	0	0	0
7/14/2024 13:21	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 13:21	56504	ROCK_T2	49	79	30	0.6	0.74	0.14	0	0	0	0	0	0	0	0
7/14/2024 13:21	56501	ROCK_T2	6	7	1	0.48	0.3	-0.18	-3.73	-3.77	0	0	0	0	0	0
7/14/2024 13:22	56504	ROCK_T2	49	79	30	0.6	0.74	0.14	0	0	0	0	0	0	0	0
7/14/2024 13:22	47403	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/14/2024 13:22	54602	SUMM_T2	9	16	7	0.7	0.39	-0.31	0	0	0	0	0	0	0	0
7/14/2024 13:22	55002	NEWP_T1	1	2	1	1.6	0.95	-0.65	0	0	0	0	0	0	0	0
7/14/2024 13:22	56501	ROCK_T2	6	7	1	0.48	0.3	-0.18	-1.88	-1.86	0	0	0	0	0	0
7/14/2024 13:22	54601	SUMM_T2	4	8	4	0.45	0.5	0.05	0	0	6	6	0	6000	6000	0
7/14/2024 13:22	47401	PENS_T1	7	16	9	1.04	0.86	-0.18	1.43	0.84	0	0	0	0	0	0
7/14/2024 13:22	55001	NEWP_T1	52	53	1	0.94	0.67	-0.27	-0.06	-0.03	0	0	0	0	0	0
7/14/2024 13:22	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 13:22	47402	PENS_T1	3	3	0	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/14/2024 13:22	64101	REFR_T1	19	16	-3	2.67	2.56	-0.11	-0.23	-0.24	0	0	0	0	0	0
7/14/2024 13:23	47402	PENS_T1	3	3	0	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/14/2024 13:23	47401	PENS_T1	7	16	9	1.04	0.86	-0.18	0.72	0.42	0	0	0	0	0	0
7/14/2024 13:23	47403	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/14/2024 13:24	54601	SUMM_T2	4	8	4	0.45	0.5	0.05	0	0	3	3	0	3000	3000	0
7/14/2024 13:24	56504	ROCK_T2	49	79	30	0.6	0.74	0.14	0	0	0	0	0	0	0	0
7/14/2024 13:24	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 13:24	56501	ROCK_T2	6	7	1	0.48	0.3	-0.18	-1.88	-1.86	0	0	0	0	0	0
7/14/2024 13:24	54602	SUMM_T2	9	16	7	0.7	0.39	-0.31	0	0	0	0	0	0	0	0
7/14/2024 13:25	60801	BUCK_T1	0	2	2	0	0.2	0.2	-1.18	-1.17	1	1	0	600	600	0
7/14/2024 13:25	51603	DUKE_T1	0	0	0	0	0	0	-0.51	-0.6	1	1	0	900	900	0
7/14/2024 13:25	56501	ROCK_T2	6	7	1	0.48	0.3	-0.18	-1.88	-1.86	0	0	0	0	0	0
7/14/2024 13:25	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 13:25	67605	WARW_T1	1	2	1	1	0.7	-0.3	-0.66	-0.58	0	0	0	0	0	0
7/14/2024 13:25	13503	MCMI_T2	1	7	6	0.4	0.43	0.03	-0.6	-0.58	0	0	0	0	0	0
7/14/2024 13:25	44801	EDAN_T2	7	6	-1	0.63	0.47	-0.16	-1.01	-0.99	0	0	0	0	0	0
7/14/2024 13:25	56504	ROCK_T2	49	79	30	0.6	0.74	0.14	0	0	0	0	0	0	0	0
7/14/2024 13:26	46203	DANV_T2	4	8	4	0.2	0.17	-0.03	-2.15	-2.12	0	0	0	0	0	0
7/14/2024 13:26	64101	REFR_T1	19	16	-3	2.67	2.56	-0.11	-0.23	-0.24	0	0	0	0	0	0
7/14/2024 13:26	46206	DANV_T2	72	82	10	0.71	0.97	0.26	0	0	0	0	0	0	0	0
7/14/2024 13:26	46204	DANV_T2	125	148	23	0.67	0.66	-0.01	0	0	0	0	0	0	0	0
7/14/2024 13:27	11102	EGYP_T1	28	31	3	1.02	1.01	-0.01	0	0	0	0	0	0	0	0
7/14/2024 13:27	11104	EGYP_T1	5	9	4	2	1.49	-0.51	0.23	0.27	1	1	0	900	900	0
7/14/2024 13:27	51603	DUKE_T1	0	0	0	0	0	0	-1.02	-1.2	2	2	0	1800	1800	0
7/14/2024 13:27	51604	DUKE_T2	8	9	1	0.5	0.34	-0.16	-1.66	-1.65	1	1	0	900	900	0
7/14/2024 13:27	11101	EGYP_T1	5	5	0	0.78	1.1	0.32	0	0	0	0	0	0	0	0
7/14/2024 13:27	51602	DUKE_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 13:29	11102	EGYP_T1	28	31	3	1.02	1.01	-0.01	0	0	0	0	0	0	0	0
7/14/2024 13:29	51602	DUKE_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 13:29	44601	SALE_T2	0	0	0	0	0	0	0.33	0.24	0	0	0	0	0	0
7/14/2024 13:29	11101	EGYP_T1	5	5	0	0.78	1.1	0.32	0	0	0	0	0	0	0	0
7/14/2024 13:29	46204	DANV_T2	125	148	23	0.67	0.66	-0.01	0	0	0	0	0	0	0	0
7/14/2024 13:29	51604	DUKE_T2	8	9	1	0.5	0.34	-0.16	-1.66	-1.65	1	1	0	900	900	0
7/14/2024 13:29	11104	EGYP_T1	5	9	4	2	1.49	-0.51	0.23	0.27	1	1	0	900	900	0
7/14/2024 13:29	46206	DANV_T2	72	82	10	0.71	0.97	0.26	0	0	0	0	0	0	0	0
7/14/2024 13:29	51603	DUKE_T1	0	0	0	0	0	0	-0.51	-0.6	1	1	0	900	900	0
7/14/2024 13:29	46203	DANV_T2	4	8	4	0.2	0.17	-0.03	-2.15	-2.12	0	0	0	0	0	0
7/14/2024 13:30	22905	HARW_T1	36	63	27	0.57	0.6	0.03	0	0	0	0	0	0	0	0
7/14/2024 13:30	22901	HARW_T1	72	93	21	1.24	0.97	-0.27	-0.26	-0.4	1	1	0	1200	1200	0
7/14/2024 13:30	44601	SALE_T2	0	0	0	0	0	0	0.33	0.24	0	0	0	0	0	0
7/14/2024 13:30	22903	HARW_T1	25	34	9	2.06	2.04	-0.02	0	0	0	0	0	0	0	0
7/14/2024 13:30	46204	DANV_T2	129	148	19	0.67	0.86	0.19	0	0	0	0	0	0	0	0
7/14/2024 13:30	46206	DANV_T2	74	94	20	1.01	1.09	0.08	0	0	0	0	0	0	0	0
7/14/2024 13:30	11102	EGYP_T1	30	28	-2	1.17	0.98	-0.19	0	0	0	0	0	0	0	0
7/14/2024 13:30	46203	DANV_T2	7	3	-4	0.17	0.1	-0.07	-4.3	-4.23	0	0	0	0	0	0
7/14/2024 13:30	11101	EGYP_T1	5	5	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
7/14/2024 13:30	11104	EGYP_T1	8	14	6	1.55	1.31	-0.24	0.23	0.27	1	1	0	900	900	0
7/14/2024 13:31	52401	GRPA_T2	108	102	-6	0.75	0.66	-0.09	0	0	0	0	0	0	0	0
7/14/2024 13:31	52403	GRPA_T2	209	199	-10	1.31	1.02	-0.29	0	0	0	0	0	0	0	0
7/14/2024 13:31	52402	GRPA_T2	85	90	5	0.71	0.75	0.04	0	0	0	0	0	0	0	0
7/14/2024 13:31	52404	GRPA_T2	2	13	11	0.3	0.5	0.2	-0.34	-0.33	0	0	0	0	0	0
7/14/2024 13:32	22903	HARW_T1	25	34	9	2.06	2.04	-0.02	0	0	0	0	0	0	0	0
7/14/2024 13:32	22901	HARW_T1	72	93	21	1.24	0.97	-0.27	0	0	0	0	0	0	0	0
7/14/2024 13:32	22905	HARW_T1	36	63	27	0.57	0.6	0.03	-0.35	-0.38	0	0	0	0	0	0
7/14/2024 13:33	13102	NHAM_T2	4	4	0	0.3	0.33	0.03	0	0	0	0	0	0	0	0
7/14/2024 13:33	13103	NHAM_T2	0	8	8	0	0.27	0.27	-0.99	-1.04	1	1	0	600	600	0
7/14/2024 13:33	13105	NHAM_T2	77	88	11	0.76	0.72	-0.04	0	0	0	0	0	0	0	0
7/14/2024 13:34	47101	MARL_T1	245	316	71	1.15	1.26	0.11	-0.5	-0.59	1	1	0	600	600	0
7/14/2024 13:34	47104	MARL_T1	22	22	0	0.79	0.31	-0.48	0	0	0	0	0	0	0	0
7/14/2024 13:35	51003	NHAR_T1	6	6	0	0.78	0.45	-0.33	-2.45	-2.45	1	1	0	1200	1200	0
7/14/2024 13:35	51004	NHAR_T1	4	4	0	2	7.2	5.2	0	0	0	0	0	0	0	0
7/14/2024 13:35	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 13:35	42901	MIDD_T2	18	26	8	0.89	0.71	-0.18	0	0	0	0	0	0	0	0
7/14/2024 13:35	42902	MIDD_T2	27	30	3	1.11	0.91	-0.2	-0.8	-0.8	1	1	0	600	600	0
7/14/2024 13:36	57403	SPAN_T1	4	18	14	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
7/14/2024 13:36	57401	SPAN_T1	5	12	7	0.3	0.38	0.08	-2.76	-2.74	4	4	0	3000	3000	0
7/14/2024 13:37	57401	SPAN_T1	5	12	7	0.3	0.38	0.08	-2.74	-2.86	4	4	0	3000	3000	0
7/14/2024 13:37	57403	SPAN_T1	4	18	14	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
7/14/2024 13:37	57103	SPHI_T2	0	0	0	0	0	0	-0.67	-0.69	1	1	0	600	600	0
7/14/2024 13:38	57403	SPAN_T1	4	18	14	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
7/14/2024 13:38	65901	SAKR_T2	15	18	3	0.65	0.77	0.12	-0.15	-0.1	2	2	0	1500	1500	0
7/14/2024 13:38	57401	SPAN_T1	5	12	7	0.3	0.38	0.08	-2.74	-2.86	4	4	0	3000	3000	0
7/14/2024 13:39	65901	SAKR_T2	15	18	3	0.65	0.77	0.12	-0.15	-0.1	2	2	0	1500	1500	0
7/14/2024 13:40	57403	SPAN_T1	4	18	14	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
7/14/2024 13:40	57401	SPAN_T1	5	12	7	0.3	0.38	0.08	-1.37	-1.43	2	2	0	1500	1500	0
7/14/2024 13:41	20401	ASHF_T2	29	60	31	0.59	0.6	0.01	0	0	0	0	0	0	0	0
7/14/2024 13:41	20402	ASHF_T2	17	53	36	0.77	0.87	0.1	0	0	0	0	0	0	0	0
7/14/2024 13:41	20403	ASHF_T2	33	36	3	0.25	0.18	-0.07	-0.01	0.07	0	0	0	0	0	0
7/14/2024 13:42	57401	SPAN_T1	5	12	7	0.3	0.38	0.08	-1.37	-1.43	2	2	0	1500	1500	0
7/14/2024 13:42	57403	SPAN_T1	4	18	14	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
7/14/2024 13:43	20601	GRWO_T2	43	55	12	0.41	0.43	0.02	0.23	0.25	0	0	0	0	0	0
7/14/2024 13:44	11303	EMMA_T1	0	1	1	0	0.3	0.3	-3.67	-3.63	0	0	0	0	0	0
7/14/2024 13:44	61701	ELIZ_T1	3	3	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/14/2024 13:44	46801	HEPB_T2	87	89	2	0.52	0.57	0.05	0.52	0.53	0	0	0	0	0	0
7/14/2024 13:44	46802	HEPB_T1	0	1	1	0	0	0	0.24	0.22	0	0	0	0	0	0
7/14/2024 13:44	61703	ELIZ_T1	2	12	10	0.2	0.1	-0.1	-2.06	-2.01	2	2	0	2100	2100	0
7/14/2024 13:45	22903	HARW_T1	30	34	4	2.08	3.04	0.96	0	0	0	0	0	0	0	0
7/14/2024 13:45	22901	HARW_T1	74	84	10	1.08	0.9	-0.18	-0.4	-0.4	1	1	0	1200	1200	0
7/14/2024 13:45	22905	HARW_T1	35	60	25	0.75	0.56	-0.19	0	0	0	0	0	0	0	0
7/14/2024 13:45	46801	HEPB_T2	87	50	-37	0.65	0.5	-0.15	0.52	0.53	0	0	0	0	0	0
7/14/2024 13:45	46803	HEPB_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
7/14/2024 13:46	22905	HARW_T1	35	60	25	0.75	0.56	-0.19	0	0	0	0	0	0	0	0
7/14/2024 13:46	22901	HARW_T1	74	84	10	1.08	0.9	-0.18	-0.4	-0.4	1	1	0	1200	1200	0
7/14/2024 13:46	22903	HARW_T1	30	34	4	2.08	3.04	0.96	0	0	0	0	0	0	0	0
7/14/2024 13:49	47402	PENS_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 13:49	47401	PENS_T1	11	12	1	0.78	0.9	0.12	0.42	0.36	0	0	0	0	0	0
7/14/2024 13:51	56504	ROCK_T2	77	47	-30	0.62	0.41	-0.21	0.83	0.85	0	0	0	0	0	0
7/14/2024 13:51	56501	ROCK_T2	3	13	10	0.33	0.52	0.19	0	0	0	0	0	0	0	0
7/14/2024 13:51	56503	ROCK_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/14/2024 13:52	14705	TREX_T1	0	1	1	0	0	0	0.61	0.67	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/14/2024 13:57	46203	DANV_T2	2	2	0	0.1	0.1	0	-2.14	-2.05	0	0	0	0	0	0
7/14/2024 13:57	46204	DANV_T2	147	146	-1	0.86	0.93	0.07	0	0	0	0	0	0	0	0
7/14/2024 13:57	46206	DANV_T2	82	97	15	1.15	1.2	0.05	0	0	0	0	0	0	0	0
7/14/2024 13:57	59202	THOM_T1	10	10	0	0.39	0.16	-0.23	0	0	0	0	0	0	0	0
7/14/2024 14:00	61701	ELIZ_T1	1	2	1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
7/14/2024 14:00	13503	MCMI_T2	3	3	0	0.53	0.67	0.14	-0.57	-0.53	0	0	0	0	0	0
7/14/2024 14:00	61703	ELIZ_T1	6	5	-1	0.23	0	-0.23	-2.01	-2.01	2	2	0	2100	2100	0
7/14/2024 14:02	21901	HUMB_T1	4	3	-1	0.3	0.55	0.25	-2.78	-2.74	0	0	0	0	0	0
7/14/2024 14:04	66103	REAM_T2	0	0	0	0	0	0	0.46	0.52	1	1	0	1200	1200	0
7/14/2024 14:06	47402	PENS_T1	0	10	10	0	0.51	0.51	0	0	0	0	0	0	0	0
7/14/2024 14:06	56504	ROCK_T2	41	48	7	0.76	0.33	-0.43	0.85	0.86	0	0	0	0	0	0
7/14/2024 14:06	47401	PENS_T1	10	10	0	0.82	0.98	0.16	0.4	0.41	0	0	0	0	0	0
7/14/2024 14:06	56501	ROCK_T2	5	14	9	0.52	0.75	0.23	0	0	0	0	0	0	0	0
7/14/2024 14:08	56501	ROCK_T2	5	14	9	0.52	0.75	0.23	-5.58	-5.49	0	0	0	0	0	0
7/14/2024 14:08	44301	BEAV_T2	81	101	20	1.02	1.1	0.08	-0.71	-0.75	1	1	0	600	600	0
7/14/2024 14:08	13807	SALI_T1	1	1	0	0.3	1.3	1	0	0	0	0	0	0	0	0
7/14/2024 14:08	13801	SALI_T1	1	1	0	0.4	0	-0.4	1.61	1.65	0	0	0	0	0	0
7/14/2024 14:08	56504	ROCK_T2	41	48	7	0.76	0.33	-0.43	0	0	0	0	0	0	0	0
7/14/2024 14:09	46204	DANV_T2	145	144	-1	1.17	0.93	-0.24	0	0	0	0	0	0	0	0
7/14/2024 14:09	46203	DANV_T2	2	3	1	0.1	0.1	0	-2.05	-2.06	0	0	0	0	0	0
7/14/2024 14:09	46206	DANV_T2	94	96	2	1.17	1.21	0.04	0	0	0	0	0	0	0	0
7/14/2024 14:11	46206	DANV_T2	94	96	2	1.17	1.21	0.04	0	0	0	0	0	0	0	0
7/14/2024 14:11	46203	DANV_T2	2	3	1	0.1	0.1	0	-2.05	-2.06	0	0	0	0	0	0
7/14/2024 14:11	46204	DANV_T2	145	144	-1	1.17	0.93	-0.24	0	0	0	0	0	0	0	0
7/14/2024 14:12	12701	MACU_T1	0	0	0	0	0	0	-0.64	-0.65	1	1	0	1200	1200	0
7/14/2024 14:13	44301	BEAV_T2	81	101	20	1.02	1.1	0.08	-0.71	-0.75	1	1	0	600	600	0
7/14/2024 14:14	51804	EBEN_T2	8	8	0	0.93	0.5	-0.43	-0.46	-0.5	1	1	0	900	900	0
7/14/2024 14:14	51802	EBEN_T2	24	22	-2	1.34	0.72	-0.62	0	0	0	0	0	0	0	0
7/14/2024 14:14	12701	MACU_T1	0	0	0	0	0	0	-0.64	-0.65	1	1	0	1200	1200	0
7/14/2024 14:18	50502	MECH_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
7/14/2024 14:18	48302	ORWI_T2	91	116	25	0.59	0.55	-0.04	0.09	0.09	0	0	0	0	0	0
7/14/2024 14:18	50505	MECH_T1	0	0	0	0	0	0	-2.72	-2.69	0	0	0	0	0	0
7/14/2024 14:19	63403	HONY_T2	0	0	0	0	0	0	-0.85	-0.82	0	0	0	0	0	0
7/14/2024 14:19	63402	HONY_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/14/2024 14:23	56501	ROCK_T2	12	13	1	1.09	0.9	-0.19	0	0	0	0	0	0	0	0
7/14/2024 14:23	56504	ROCK_T2	39	51	12	0.41	0.42	0.01	0.86	0.24	0	0	0	0	0	0
7/14/2024 14:23	67001	STHI_T2	0	0	0	0	0	0	0.67	0.6	0	0	0	0	0	0
7/14/2024 14:23	59101	WALK_T2	1	1	0	0.1	0	-0.1	0	0.05	1	1	0	600	600	0
7/14/2024 14:25	67605	WARW_T1	2	1	-1	0.55	1.2	0.65	-0.61	-0.53	0	0	0	0	0	0
7/14/2024 14:28	61704	ELIZ_T2	7	0	0	0.41	0.28	-0.13	0	0	0	0	0	0	0	0
7/14/2024 14:28	61702	ELIZ_T2	5	8	3	0.54	0.2	-0.34	-0.91	-0.96	2	2	0	1500	1500	0
7/14/2024 14:29	63401	HONY_T1	0	0	0	0	0	0	0.59	0.55	0	0	0	0	0	0
7/14/2024 14:33	50502	MECH_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/14/2024 14:34	60501	NMAN_T2	3	3	0	4.53	4.53	0	0	0	0	0	0	0	0	0
7/14/2024 14:34	60502	NMAN_T2	0	0	0	0	0	0	-0.33	0.04	0	0	0	0	0	0
7/14/2024 14:34	60504	NMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/14/2024 14:35	60502	NMAN_T2	0	0	0	0	0	0	-0.33	0.04	0	0	0	0	0	0
7/14/2024 14:35	60504	NMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/14/2024 14:35	60501	NMAN_T2	3	3	0	4.53	4.53	0	0	0	0	0	0	0	0	0
7/14/2024 14:37	59101	WALK_T2	0	2	2	0	0.1	0.1	0.05	0.07	1	1	0	600	600	0
7/14/2024 14:38	67201	TEHI_T1	0	2	2	0	0.4	0.4	0.81	0.81	0	0	0	0	0	0
7/14/2024 14:39	47401	PENS_T1	8	24	16	0.93	0.58	-0.35	0.55	0.51	0	0	0	0	0	0
7/14/2024 14:39	47402	PENS_T1	10	2	-8	0.84	0.4	-0.44	0	0	0	0	0	0	0	0
7/14/2024 14:39	59101	WALK_T2	0	2	2	0	0.1	0.1	0.09	0.13	2	2	0	1200	1200	0
7/14/2024 14:39	47403	PENS_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
7/14/2024 14:40	61506	EPET_T2	0	0	0	0	0	0	-0.24	-0.34	1	1	0	900	900	0
7/14/2024 14:40	61501	EPET_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
7/14/2024 14:41	59101	WALK_T2	0	2	2	0	0.1	0.1	0.05	0.07	1	1	0	600	600	0
7/14/2024 14:44	29402	BELT_T1	40	36	-4	0.84	0.77	-0.07	0	0	0	0	0	0	0	0
7/14/2024 14:44	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/14/2024 14:45	45702	LIND_T2	1	1	0	0.9	0.7	-0.2	-1.06	-1.04	0	0	0	0	0	0
7/14/2024 14:45	67605	WARW_T1	1	1	0	1.2	1	-0.2	-0.53	-0.56	0	0	0	0	0	0
7/14/2024 14:46	67605	WARW_T1	1	1	0	1.2	1	-0.2	-0.53	-0.56	0	0	0	0	0	0
7/14/2024 14:46	64305	LINC_T1	1	1	0	0.6	0.8	0.2	-0.53	-0.51	0	0	0	0	0	0
7/14/2024 14:48	13503	MCMI_T2	3	1	-2	0.57	0.4	-0.17	-0.51	-0.48	0	0	0	0	0	0
7/14/2024 14:49	51401	LYKE_T1	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
7/14/2024 14:49	51003	NHAR_T1	0	16	16	0	0.53	0.53	0	0	0	0	0	0	0	0
7/14/2024 14:49	51004	NHAR_T1	5	1	-4	1.88	7.6	5.72	-1.03	-2.45	0	0	0	0	0	0
7/14/2024 14:50	57403	SPAN_T1	29	20	-9	0.42	0.32	-0.1	0	0	0	0	0	0	0	0
7/14/2024 14:50	47403	PENS_T1	2	1	-1	0.7	1	0.3	0	0	0	0	0	0	0	0
7/14/2024 14:50	57401	SPAN_T1	34	6	-28	0.59	0.4	-0.19	-2.42	-4.22	4	6	2	3000	4800	1800
7/14/2024 14:50	51004	NHAR_T1	5	1	-4	1.88	7.6	5.72	-1.03	-2.45	0	0	0	0	0	0
7/14/2024 14:50	47401	PENS_T1	16	30	14	0.74	0.55	-0.19	0.55	0.51	0	0	0	0	0	0
7/14/2024 14:50	47402	PENS_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/14/2024 14:50	51003	NHAR_T1	0	16	16	0	0.53	0.53	0	0	0	0	0	0	0	0
7/14/2024 14:51	61501	EPET_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
7/14/2024 14:51	57401	SPAN_T1	34	6	-28	0.59	0.4	-0.19	-2.42	-4.22	4	6	2	3000	4800	1800
7/14/2024 14:51	13503	MCMI_T2	3	1	-2	0.57	0.4	-0.17	-0.51	-0.48	0	0	0	0	0	0
7/14/2024 14:51	57403	SPAN_T1	29	20	-9	0.42	0.32	-0.1	0	0	0	0	0	0	0	0
7/14/2024 14:51	47403	PENS_T1	2	1	-1	0.7	1	0.3	0	0	0	0	0	0	0	0
7/14/2024 14:51	54603	SUMM_T2	1	5	4	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
7/14/2024 14:51	54601	SUMM_T2	8	34	26	0.54	0.45	-0.09	0	0	6	6	0	6000	6000	0
7/14/2024 14:51	14802	TREI_T2	10	16	6	1.22	0.91	-0.31	0	0	0	0	0	0	0	0
7/14/2024 14:51	61504	EPET_T2	0	0	0	0	0	0	-1.26	-1.3	0	0	0	0	0	0
7/14/2024 14:51	54602	SUMM_T2	13	44	31	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
7/14/2024 14:51	14801	TREI_T2	307	352	45	2.9	2.67	-0.23	0	0	0	0	0	0	0	0
7/14/2024 14:51	47401	PENS_T1	16	30	14	0.74	0.55	-0.19	1.03	1.09	0	0	0	0	0	0
7/14/2024 14:51	47402	PENS_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/14/2024 14:52	14802	TREI_T2	10	16	6	1.22	0.91	-0.31	0	0	0	0	0	0	0	0
7/14/2024 14:52	14801	TREI_T2	307	352	45	2.9	2.67	-0.23	0	0	0	0	0	0	0	0
7/14/2024 14:53	57401	SPAN_T1	34	6	-28	0.59	0.4	-0.19	-4.22	-3.5	6	6	0	4800	4800	0
7/14/2024 14:53	57403	SPAN_T1	29	20	-9	0.42	0.32	-0.1	0	0	0	0	0	0	0	0
7/14/2024 14:54	56803	BENV_T1	15	23	8	1.37	1.78	0.41	-0.36	-0.39	1	1	0	600	600	0
7/14/2024 14:54	56801	BENV_T1	8	42	34	0.74	0.54	-0.2	0	0	0	0	0	0	0	0
7/14/2024 14:54	60801	BUCK_T1	0	2	2	0	0	0	-0.25	-0.25	1	1	0	600	600	0
7/14/2024 14:54	67605	WARW_T1	1	1	0	1.2	1	-0.2	-0.56	-0.52	0	0	0	0	0	0
7/14/2024 14:55	54603	SUMM_T2	1	5	4	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
7/14/2024 14:55	54601	SUMM_T2	8	34	26	0.54	0.45	-0.09	0	0	3	3	0	3000	3000	0
7/14/2024 14:55	20401	ASHF_T2	32	94	62	0.55	0.63	0.08	0	0	0	0	0	0	0	0
7/14/2024 14:55	57403	SPAN_T1	29	20	-9	0.42	0.32	-0.1	0	0	0	0	0	0	0	0
7/14/2024 14:55	20402	ASHF_T2	66	206	140	0.92	0.52	-0.4	0	0	0	0	0	0	0	0
7/14/2024 14:55	54602	SUMM_T2	13	44	31	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
7/14/2024 14:55	57401	SPAN_T1	34	6	-28	0.59	0.4	-0.19	-2.11	-1.75	3	3	0	2400	2400	0
7/14/2024 14:55	60801	BUCK_T1	0	2	2	0	0	0	-0.25	-0.25	1	1	0	600	600	0
7/14/2024 14:55	56801	BENV_T1	8	42	34	0.74	0.54	-0.2	0	0	0	0	0	0	0	0
7/14/2024 14:55	20403	ASHF_T2	36	40	4	0.8	0.39	-0.41	0.16	0.18	0	0	0	0	0	0
7/14/2024 14:55	56803	BENV_T1	15	23	8	1.37	1.78	0.41	-0.36	-0.39	1	1	0	600	600	0
7/14/2024 14:55	42701	AUGU_T1	90	102	12	1.98	2.22	0.24	0	0	2	2	0	1800	1800	0
7/14/2024 14:57	42701	AUGU_T1	90	102	12	1.98	2.22	0.24	0	0	2	2	0	1800	1800	0
7/14/2024 14:58	54603	SUMM_T2	1	5	4	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
7/14/2024 14:58	56801	BENV_T1	8	42	34	0.74	0.54	-0.2	0	0	0	0	0	0	0	0
7/14/2024 14:58	56803	BENV_T1	15	23	8	1.37	1.78	0.41	-0.36	-0.39	1	1	0	600	600	0
7/14/2024 14:58	54601	SUMM_T2	8	34	26	0.54	0.45	-0.09	0	0	3	3	0	3000	3000	0
7/14/2024 14:58	54602	SUMM_T2	13	44	31	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
7/14/2024 14:58	61704	ELIZ_T2	4	6	2	0.28	0.33	0.05	0	0	0	0	0	0	0	0
7/14/2024 14:58	61702	ELIZ_T2	7	24	17	0.4	0.33	-0.07	-0.94	-0.95	2	2	0	1500	1500	0
7/14/2024 14:59	20601	GRWO_T2	92	124	32	0.84	0.86	0.02	0.3	0.31	0	0	0	0	0	0
7/14/2024 14:59	56801	BENV_T1	8	42	34	0.74	0.54	-0.2	0	0	0	0	0	0	0	0
7/14/2024 14:59	56803	BENV_T1	15	23	8	1.37	1.78	0.41	-0.36	-0.39	1	1	0	600	600	0
7/14/2024 15:05	67605	WARW_T1	1	1	0	0.8	1.1	0.3	-0.56	-0.52	0	0	0	0	0	0
7/14/2024 15:05	66901	SHIL_T2	147	89	-58	0.27	0.19	-0.08	-1.25	-1.27	1	1	0	1200	1200	0
7/14/2024 15:05	66902	SHIL_T2	12	1	-11	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
7/14/2024 15:06	67605	WARW_T1	1	1	0	0.8	1.1	0.3	-0.56	-0.52	0	0	0	0	0	0
7/14/2024 15:07	15103	UPHA_T2	0	0	0	0	0	0	-0.25	-0.29	0	0	0	0	0	0
7/14/2024 15:07	65802	RTWN_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
7/14/2024 15:08	14802	TREI_T2	10	17	7	0.91	0.91	0	0	0	0	0	0	0	0	0
7/14/2024 15:08	14801	TREI_T2	341	349	8	2.8	2.66	-0.14	0	0	0	0	0	0	0	0
7/14/2024 15:09	67605	WARW_T1	1	1	0	0.8	1.1	0.3	-0.52	-0.3	0	0	0	0	0	0
7/14/2024 15:10	59101	WALK_T2	2	18	16	0.9	0.7	-0.2	0.68	0.67	2	2	0	1200	1200	0
7/14/2024 15:10	59102	WALK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 15:10	12704	MACU_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 15:10	12701	MACU_T1	0	1	1	0	0	0	-0.69	-0.62	1	1	0	1200	1200	0
7/14/2024 15:11	46203	DANV_T2	3	4	1	0.57	0	-0.57	-2.05	-2.02	0	0	0	0	0	0
7/14/2024 15:11	46204	DANV_T2	145	152	7	1.14	1.32	0.18	0	0	0	0	0	0	0	0
7/14/2024 15:11	46205	DANV_T2	2	6	4	0.15	1.03	0.88	0	0	0	0	0	0	0	0
7/14/2024 15:11	46206	DANV_T2	98	104	6	1.26	1	-0.26	0	0	0	0	0	0	0	0
7/14/2024 15:12	15001	BLMO_T1	31	99	68	0.45	0.51	0.06	0	0	0	0	0	0	0	0
7/14/2024 15:12	12701	MACU_T1	0	1	1	0	0	0	-0.69	-0.62	1	1	0	1200	1200	0
7/14/2024 15:12	12704	MACU_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 15:13	21204	ECAR_T2	7	10	3	0.47	0.32	-0.15	0	0	0	0	0	0	0	0
7/14/2024 15:13	21206	ECAR_T2	51	74	23	1.64	1.64	0	0.5	0.54	0	0	0	0	0	0
7/14/2024 15:15	46206	DANV_T2	99	101	2	1.22	0.94	-0.28	0	0	0	0	0	0	0	0
7/14/2024 15:15	46204	DANV_T2	147	153	6	1.38	1.38	0	0	0	0	0	0	0	0	0
7/14/2024 15:15	46205	DANV_T2	6	6	0	1.2	1.03	-0.17	0	0	0	0	0	0	0	0
7/14/2024 15:15	46203	DANV_T2	4	3	-1	0.63	0	-0.63	-2.05	-2.02	0	0	0	0	0	0
7/14/2024 15:16	47104	MARL_T1	24	30	6	1.06	1.55	0.49	0	0	0	0	0	0	0	0
7/14/2024 15:16	47101	MARL_T1	472	508	36	1.14	1.11	-0.03	-0.47	-0.41	1	1	0	600	600	0
7/14/2024 15:16	51401	LYKE_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
7/14/2024 15:20	47101	MARL_T1	472	508	36	1.14	1.11	-0.03	-0.47	-0.41	1	1	0	600	600	0
7/14/2024 15:20	47104	MARL_T1	24	30	6	1.06	1.55	0.49	0	0	0	0	0	0	0	0
7/14/2024 15:21	47403	PENS_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/14/2024 15:21	47402	PENS_T1	1	5	4	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/14/2024 15:21	47401	PENS_T1	30	18	-12	0.61	0.64	0.03	0.53	0.5	0	0	0	0	0	0
7/14/2024 15:22	54602	SUMM_T2	27	54	27	0.37	0.59	0.22	0	0	0	0	0	0	0	0
7/14/2024 15:22	54601	SUMM_T2	30	29	-1	0.66	0.6	-0.06	0	0	3	3	0	3000	3000	0
7/14/2024 15:22	54603	SUMM_T2	4	8	4	0.4	0.4	0	0	0	0	0	0	0	0	0
7/14/2024 15:24	49803	UNIV_T1	0	10	10	0	0.3	0.3	-1.44	-1.44	0	0	0	0	0	0
7/14/2024 15:24	49804	UNIV_T1	3	7	4	0.17	0.52	0.35	0	0	0	0	0	0	0	0
7/14/2024 15:24	66504	SMAN_T2	9	17	8	1.29	1.19	-0.1	0.13	0.22	0	0	0	0	0	0
7/14/2024 15:24	66505	SMAN_T2	311	291	-20	0.62	0.48	-0.14	0	0	0	0	0	0	0	0
7/14/2024 15:24	66503	SMAN_T2	26	19	-7	0.59	0.5	-0.09	0	0	0	0	0	0	0	0
7/14/2024 15:26	46204	DANV_T2	147	153	6	1.38	1.38	0	0	0	0	0	0	0	0	0
7/14/2024 15:26	46205	DANV_T2	6	6	0	1.2	1.03	-0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/14/2024 15:26	46203	DANV_T2	4	3	-1	0.63	0	-0.63	-2.02	-2	0	0	0	0	0	0
7/14/2024 15:26	44302	BEAV_T2	2	2	0	0.65	0.55	-0.1	0.65	0.64	0	0	0	0	0	0
7/14/2024 15:26	44301	BEAV_T2	37	90	53	0.58	0.97	0.39	-0.7	-0.65	1	1	0	600	600	0
7/14/2024 15:26	46206	DANV_T2	99	101	2	1.22	0.94	-0.28	0	0	0	0	0	0	0	0
7/14/2024 15:28	44302	BEAV_T2	2	2	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
7/14/2024 15:28	44301	BEAV_T2	37	90	53	0.58	0.97	0.39	-0.7	-0.65	1	1	0	600	600	0
7/14/2024 15:29	45802	HEGI_T2	33	40	7	0.52	0.79	0.27	-0.56	-0.49	1	1	0	900	900	0
7/14/2024 15:30	53802	MBRG_T2	2	4	2	0.35	0.3	-0.05	0.01	-0.08	0	0	0	0	0	0
7/14/2024 15:30	45802	HEGI_T2	40	28	-12	0.79	0.59	-0.2	-0.56	-0.49	1	1	0	900	900	0
7/14/2024 15:32	44302	BEAV_T2	2	1	-1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
7/14/2024 15:32	22903	HARW_T1	22	28	6	1.73	1.71	-0.02	-0.53	-0.69	0	0	0	0	0	0
7/14/2024 15:32	44301	BEAV_T2	51	92	41	0.97	1.14	0.17	-0.7	-0.65	1	1	0	600	600	0
7/14/2024 15:32	22901	HARW_T1	64	69	5	0.93	1.01	0.08	0	0	0	0	0	0	0	0
7/14/2024 15:32	22905	HARW_T1	15	33	18	0.37	0.31	-0.06	0	0	0	0	0	0	0	0
7/14/2024 15:32	45801	HEGI_T1	5	9	4	0.52	0.3	-0.22	-0.23	-0.23	1	1	0	900	900	0
7/14/2024 15:33	52404	GRPA_T2	26	62	36	0.69	0.58	-0.11	0	0	0	0	0	0	0	0
7/14/2024 15:33	52402	GRPA_T2	100	125	25	1.32	1.11	-0.21	0	0	0	0	0	0	0	0
7/14/2024 15:33	52401	GRPA_T2	195	182	-13	1.05	0.74	-0.31	-0.48	-0.51	0	0	0	0	0	0
7/14/2024 15:33	52403	GRPA_T2	265	267	2	1.63	1.57	-0.06	0	0	0	0	0	0	0	0
7/14/2024 15:34	58401	MORO_T1	5	21	16	0.8	0.46	-0.34	0	0	0	0	0	0	0	0
7/14/2024 15:34	58402	MORO_T1	3	15	12	0.83	0.65	-0.18	-1.08	-1.07	5	5	0	3150	3150	0
7/14/2024 15:35	42902	MIDD_T2	26	27	1	1.33	1.36	0.03	-0.03	-0.02	0	0	0	0	0	0
7/14/2024 15:35	42903	MIDD_T2	3	5	2	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
7/14/2024 15:35	42901	MIDD_T2	3	6	3	1.17	1.25	0.08	0	0	0	0	0	0	0	0
7/14/2024 15:36	47101	MARL_T1	453	529	76	1.15	1.18	0.03	-0.41	-0.32	1	1	0	600	600	0
7/14/2024 15:36	47104	MARL_T1	30	35	5	1.58	1.92	0.34	0	0	0	0	0	0	0	0
7/14/2024 15:37	15704	TANN_T1	122	198	76	0.67	0.62	-0.05	0	0	0	0	0	0	0	0
7/14/2024 15:37	15701	TANN_T1	2	1	-1	1.4	3	1.6	0	0	0	0	0	0	0	0
7/14/2024 15:39	49803	UNIV_T1	1	26	25	0.3	0.43	0.13	-1.44	-1.39	0	0	0	0	0	0
7/14/2024 15:39	49804	UNIV_T1	6	14	8	0.57	0.57	0	0	0	0	0	0	0	0	0
7/14/2024 15:40	56801	BENV_T1	61	69	8	0.56	0.45	-0.11	-0.37	-0.34	2	2	0	1200	1200	0
7/14/2024 15:40	56803	BENV_T1	33	48	15	1.06	1.03	-0.03	0	0	0	0	0	0	0	0
7/14/2024 15:41	56801	BENV_T1	61	69	8	0.56	0.45	-0.11	0	0	0	0	0	0	0	0
7/14/2024 15:41	56803	BENV_T1	33	48	15	1.06	1.03	-0.03	-0.39	-0.35	1	1	0	600	600	0
7/14/2024 15:44	62104	ELAN_T1	0	5	5	0	0	0	0.97	0.89	2	2	0	1500	1500	0
7/14/2024 15:44	62105	ELAN_T1	4	4	0	0.58	0.48	-0.1	0	0	0	0	0	0	0	0
7/14/2024 15:44	53902	HALI_T2	6	7	1	0.82	1.6	0.78	-0.43	-0.45	0	0	0	0	0	0
7/14/2024 15:44	62102	ELAN_T1	4	0	-4	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/14/2024 15:45	53902	HALI_T2	7	3	-4	0.69	2.9	2.21	-0.43	-0.45	0	0	0	0	0	0
7/14/2024 15:46	53902	HALI_T2	7	3	-4	0.69	2.9	2.21	-0.85	-0.9	0	0	0	0	0	0
7/14/2024 15:47	44801	EDAN_T2	5	5	0	1.42	0.95	-0.47	-0.99	-0.98	0	0	0	0	0	0
7/14/2024 15:47	64305	LINC_T1	1	1	0	1.2	1.2	0	-0.42	-0.53	0	0	0	0	0	0
7/14/2024 15:48	53902	HALI_T2	7	3	-4	0.69	2.9	2.21	-0.43	-0.45	0	0	0	0	0	0
7/14/2024 15:49	51401	LYKE_T1	0	0	0	0	0	0	0.57	0.61	0	0	0	0	0	0
7/14/2024 15:50	65801	RTWN_T1	0	0	0	0	0	0	-0.55	-0.61	2	2	0	1200	1200	0
7/14/2024 15:51	67605	WARW_T1	1	1	0	0.7	1.1	0.4	-0.28	-0.3	0	0	0	0	0	0
7/14/2024 15:51	44203	POIN_T2	8	9	1	1.16	0.96	-0.2	0	0	0	0	0	0	0	0
7/14/2024 15:51	44202	POIN_T2	0	0	0	0	0	0	-0.3	-0.31	1	1	0	1200	1200	0
7/14/2024 15:52	67605	WARW_T1	1	1	0	0.7	1.1	0.4	-0.3	-0.28	0	0	0	0	0	0
7/14/2024 15:53	55101	WERT_T1	5	11	6	0.28	1.11	0.83	-2.16	-2.17	4	4	0	3300	3300	0
7/14/2024 15:53	55105	WERT_T1	9	15	6	0.78	0.3	-0.48	0	0	0	0	0	0	0	0
7/14/2024 15:53	42701	AUGU_T1	126	136	10	2.29	2.56	0.27	0	0	2	2	0	1800	1800	0
7/14/2024 15:53	55103	WERT_T1	2	8	6	0.55	0.8	0.25	0	0	0	0	0	0	0	0
7/14/2024 15:54	55105	WERT_T1	9	15	6	0.78	0.3	-0.48	0	0	0	0	0	0	0	0
7/14/2024 15:54	15001	BLMO_T1	44	7	-37	0.53	0.34	-0.19	0	0	0	0	0	0	0	0
7/14/2024 15:54	55101	WERT_T1	5	11	6	0.28	1.11	0.83	-2.16	-2.17	4	4	0	3300	3300	0
7/14/2024 15:54	55103	WERT_T1	2	8	6	0.55	0.8	0.25	0	0	0	0	0	0	0	0
7/14/2024 15:57	55103	WERT_T1	2	8	6	0.55	0.8	0.25	0	0	0	0	0	0	0	0
7/14/2024 15:57	55101	WERT_T1	5	11	6	0.28	1.11	0.83	-4.33	-4.35	8	8	0	6600	6600	0
7/14/2024 15:57	55105	WERT_T1	9	15	6	0.78	0.3	-0.48	0	0	0	0	0	0	0	0
7/14/2024 15:59	51802	EBEN_T2	24	29	5	0.93	0.91	-0.02	0	0	0	0	0	0	0	0
7/14/2024 15:59	51804	EBEN_T2	5	13	8	0.48	0.41	-0.07	-0.86	-0.84	2	2	0	1800	1800	0
7/14/2024 16:02	52402	GRPA_T2	114	125	11	1.16	1.69	0.53	-1.81	-1.76	2	2	0	1200	1200	0
7/14/2024 16:02	55103	WERT_T1	1	18	17	0.8	0.29	-0.51	0	0	0	0	0	0	0	0
7/14/2024 16:02	52401	GRPA_T2	163	249	86	0.81	1.02	0.21	0	0	0	0	0	0	0	0
7/14/2024 16:02	55105	WERT_T1	12	26	14	0.65	0.32	-0.33	0	0	0	0	0	0	0	0
7/14/2024 16:02	55101	WERT_T1	9	15	6	1.09	1.11	0.02	-2.16	-2.17	4	4	0	3300	3300	0
7/14/2024 16:02	52404	GRPA_T2	61	94	33	0.66	0.8	0.14	0	0	0	0	0	0	0	0
7/14/2024 16:02	52403	GRPA_T2	267	291	24	1.72	1.99	0.27	0	0	0	0	0	0	0	0
7/14/2024 16:03	52401	GRPA_T2	163	249	86	0.81	1.02	0.21	0	0	0	0	0	0	0	0
7/14/2024 16:03	52404	GRPA_T2	61	94	33	0.66	0.8	0.14	0	0	0	0	0	0	0	0
7/14/2024 16:03	52403	GRPA_T2	267	291	24	1.72	1.99	0.27	-0.27	-0.26	0	0	0	0	0	0
7/14/2024 16:03	52402	GRPA_T2	114	125	11	1.16	1.69	0.53	0	0	0	0	0	0	0	0
7/14/2024 16:04	41902	REED_T1	108	151	43	0.65	0.71	0.06	-0.62	-0.53	2	2	0	1800	1800	0
7/14/2024 16:04	41901	REED_T1	11	19	8	0.38	0.51	0.13	0	0	0	0	0	0	0	0
7/14/2024 16:06	67703	WERN_T2	5	5	0	0.6	0.3	-0.3	-0.01	-0.01	1	1	0	900	900	0
7/14/2024 16:08	57403	SPAN_T1	58	146	88	0.57	0.6	0.03	0	0	0	0	0	0	0	0
7/14/2024 16:08	57401	SPAN_T1	17	51	34	0.69	0.65	-0.04	-1.74	-1.72	3	3	0	2400	2400	0
7/14/2024 16:08	67703	WERN_T2	5	5	0	0.6	0.3	-0.3	-0.01	-0.01	1	1	0	900	900	0
7/14/2024 16:10	15001	BLMO_T1	5	17	12	0.38	0.28	-0.1	0	0	0	0	0	0	0	0
7/14/2024 16:15	61802	EELI_T2	33	48	15	1	0.93	-0.07	0	0	0	0	0	0	0	0
7/14/2024 16:15	61803	EELI_T2	5	11	6	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/14/2024 16:15	61801	EELI_T2	24	41	17	1.38	1.2	-0.18	0.17	0.12	1	1	0	600	600	0
7/14/2024 16:15	44702	MUNC_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 16:15	44701	MUNC_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/14/2024 16:15	44703	MUNC_T2	30	50	20	0.92	0.84	-0.08	0.59	0.57	0	0	0	0	0	0
7/14/2024 16:16	63501	HEID_TBK1-2	0	0	0	0	0	0	0.67	0.73	1	1	0	900	900	0
7/14/2024 16:18	53902	HALI_T2	2	6	4	1.55	1.3	-0.25	0	0	0	0	0	0	0	0
7/14/2024 16:18	59003	MIFF_T1	25	46	21	0.76	0.91	0.15	-0.43	-0.48	0	0	0	0	0	0
7/14/2024 16:18	53901	HALI_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
7/14/2024 16:19	40603	PIGR_T1	86	91	5	1.9	2.25	0.35	-0.95	-0.96	1	1	0	900	900	0
7/14/2024 16:19	57702	PAXT_T1	15	22	7	1.09	1.08	-0.01	-0.15	-0.16	0	0	0	0	0	0
7/14/2024 16:19	42903	MIDD_T2	3	9	6	0.67	0.48	-0.19	0	0	0	0	0	0	0	0
7/14/2024 16:19	40602	PIGR_T1	45	54	9	0.92	0.73	-0.19	0	0	0	0	0	0	0	0
7/14/2024 16:19	40601	PIGR_T1	82	79	-3	1.01	0.81	-0.2	0	0	0	0	0	0	0	0
7/14/2024 16:19	42901	MIDD_T2	5	14	9	1.08	1	-0.08	0	0	0	0	0	0	0	0
7/14/2024 16:19	42902	MIDD_T2	29	32	3	2.36	2.88	0.52	0.02	0.03	0	0	0	0	0	0
7/14/2024 16:22	58703	ROSE_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/14/2024 16:22	58705	ROSE_T2	6	18	12	0.3	0.3	0	0	0	0	0	0	0	0	0
7/14/2024 16:22	58706	ROSE_T2	17	26	9	0.88	1.31	0.43	0.43	0.39	1	1	0	600	600	0
7/14/2024 16:22	58702	ROSE_T2	10	29	19	0.33	1.12	0.79	0	0	0	0	0	0	0	0
7/14/2024 16:22	58704	ROSE_T2	1	1	0	6.1	3.6	-2.5	0	0	0	0	0	0	0	0
7/14/2024 16:22	58701	ROSE_T2	47	82	35	0.71	0.59	-0.12	0	0	0	0	0	0	0	0
7/14/2024 16:29	40101	HUNT_T2	249	344	95	0.81	0.76	-0.05	-0.89	-0.86	0	0	0	0	0	0
7/14/2024 16:32	25402	LAHA_T2	31	69	38	0.7	0.68	-0.02	0.18	0.14	0	0	0	0	0	0
7/14/2024 16:32	40101	HUNT_T2	256	379	123	0.77	0.84	0.07	-0.89	-0.86	0	0	0	0	0	0
7/14/2024 16:34	58402	MORO_T1	6	14	8	0.67	0.56	-0.11	-1.06	-0.99	5	5	0	3150	3150	0
7/14/2024 16:34	58401	MORO_T1	39	61	22	0.73	0.54	-0.19	0	0	0	0	0	0	0	0
7/14/2024 16:36	66703	STRA_T1	17	30	13	0.34	0.41	0.07	0	0	0	0	0	0	0	0
7/14/2024 16:36	66701	STRA_T1	34	61	27	0.89	1.11	0.22	0.88	0.83	1	1	0	600	600	0
7/14/2024 16:37	57404	SPAN_T2	4	14	10	0.33	0.2	-0.13	-1.57	-1.64	1	1	0	1200	1200	0
7/14/2024 16:37	57402	SPAN_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/14/2024 16:38	45302	WBER_T2	39	39	0	1.01	0.81	-0.2	1.76	1.61	0	0	0	0	0	0
7/14/2024 16:38	66703	STRA_T1	17	30	13	0.34	0.41	0.07	0	0	0	0	0	0	0	0
7/14/2024 16:38	66701	STRA_T1	34	61	27	0.89	1.11	0.22	0.88	0.83	1	1	0	600	600	0
7/14/2024 16:39	57404	SPAN_T2	4	14	10	0.33	0.2	-0.13	-1.57	-1.64	1	1	0	1200	1200	0
7/14/2024 16:39	57402	SPAN_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/14/2024 16:40	57403	SPAN_T1	137	148	11	0.62	0.64	0.02	0	0	0	0	0	0	0	0
7/14/2024 16:40	45302	WBER_T2	39	39	0	1.01	0.81	-0.2	1.76	1.61	0	0	0	0	0	0
7/14/2024 16:40	57401	SPAN_T1	32	82	50	0.71	0.45	-0.26	-1.71	-1.79	3	3	0	2400	2400	0
7/14/2024 16:45	61701	ELIZ_T1	37	33	-4	0.43	0.17	-0.26	0	0	0	0	0	0	0	0
7/14/2024 16:45	61703	ELIZ_T1	236	188	-48	0.66	0.4	-0.26	-1.88	-1.91	2	2	0	2100	2100	0
7/14/2024 16:49	24901	WHHA_T1	4	16	12	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/14/2024 16:49	24902	WHHA_T1	235	294	59	1.1	1.1	0	0.56	0.56	0	0	0	0	0	0
7/14/2024 16:51	48303	ORWI_T2	0	0	0	0	0	0	0.97	1	0	0	0	0	0	0
7/14/2024 16:51	48302	ORWI_T2	229	245	16	1.09	0.94	-0.15	0.17	0.15	0	0	0	0	0	0
7/14/2024 16:52	45602	WOOL_T1	1	0	-1	0.6	0	-0.6	0.07	0.1	1	1	0	900	900	0
7/14/2024 16:55	29402	BELT_T1	70	49	-21	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
7/14/2024 16:55	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/14/2024 16:55	24902	WHHA_T1	235	294	59	1.1	1.1	0	0.56	0.54	0	0	0	0	0	0
7/14/2024 16:55	59102	WALK_T2	2	2	0	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
7/14/2024 16:55	24901	WHHA_T1	4	16	12	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/14/2024 16:55	45602	WOOL_T1	1	0	-1	0.6	0	-0.6	0.14	0.2	2	2	0	1800	1800	0
7/14/2024 16:55	59101	WALK_T2	29	4	-25	0.54	0	-0.54	0.23	-0.33	3	3	0	1800	1800	0
7/14/2024 16:56	55102	WERT_T2	5	31	26	0.86	0.6	-0.26	-1.46	-1.25	2	2	0	1200	1200	0
7/14/2024 16:57	16002	DORN_T2	124	126	2	0.95	0.96	0.01	0.31	0.26	1	1	0	1200	1200	0
7/14/2024 16:57	16006	DORN_T2	64	43	-21	1.53	2.71	1.18	0	0	0	0	0	0	0	0
7/14/2024 17:00	55104	WERT_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 17:00	55102	WERT_T2	5	51	46	0.6	0.47	-0.13	-1.46	-1.25	2	2	0	1200	1200	0
7/14/2024 17:02	12302	LANA_T2	2	2	0	0.5	0.1	-0.4	-1.4	-1.4	3	3	0	2700	2700	0
7/14/2024 17:02	12301	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 17:02	12304	LANA_T2	90	94	4	0.68	0.68	0	0	0	0	0	0	0	0	0
7/14/2024 17:02	12305	LANA_T2	16	17	1	0.92	1.12	0.2	0	0	0	0	0	0	0	0
7/14/2024 17:05	27603	PIRI_T2	1	1	0	1.2	0.5	-0.7	0	0	0	0	0	0	0	0
7/14/2024 17:05	27605	PIRI_T2	841	831	-10	1.23	1.15	-0.08	1.49	1.49	0	0	0	0	0	0
7/14/2024 17:11	43402	BENT_T1	16	14	-2	0.52	0.48	-0.04	-1.26	-1.3	2	2	0	1800	1800	0
7/14/2024 17:11	43401	BENT_T1	15	17	2	1.09	0.74	-0.35	0	0	0	0	0	0	0	0
7/14/2024 17:12	43402	BENT_T1	16	14	-2	0.52	0.48	-0.04	-0.63	-0.65	1	1	0	900	900	0
7/14/2024 17:12	43401	BENT_T1	15	17	2	1.09	0.74	-0.35	0	0	0	0	0	0	0	0
7/14/2024 17:12	15001	BLMO_T1	29	36	7	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
7/14/2024 17:14	52402	GRPA_T2	104	144	40	1.02	0.73	-0.29	0	0	0	0	0	0	0	0
7/14/2024 17:14	52403	GRPA_T2	276	267	-9	2.16	1.48	-0.68	-0.45	-0.43	0	0	0	0	0	0
7/14/2024 17:14	52404	GRPA_T2	96	121	25	1.52	1.4	-0.12	0	0	0	0	0	0	0	0
7/14/2024 17:14	52401	GRPA_T2	43	83	40	0.75	0.59	-0.16	0	0	0	0	0	0	0	0
7/14/2024 17:14	63304	GREE_T1	0	0	0	0	0	0	-2.99	-2.75	1	1	0	1200	1200	0
7/14/2024 17:16	52003	LING_T1	78	43	-35	0.5	0.51	0.01	0	0	0	0	0	0	0	0
7/14/2024 17:16	52001	LING_T1	6	15	9	0.82	0.33	-0.49	0.06	0.08	0	0	0	0	0	0
7/14/2024 17:17	63304	GREE_T1	0	0	0	0	0	0	-2.99	-2.75	1	1	0	1200	1200	0
7/14/2024 17:21	46301	ROHR_T1	2	9	7	0.4	0.43	0.03	0	0	0	0	0	0	0	0
7/14/2024 17:21	46302	ROHR_T1	25	90	65	0.94	0.64	-0.3	0.54	0.54	0	0	0	0	0	0
7/14/2024 17:25	47402	PENS_T1	8	18	10	0.4	0.53	0.13	0	0	0	0	0	0	0	0
7/14/2024 17:25	47401	PENS_T1	21	20	-1	0.81	1.13	0.32	0.49	0.47	0	0	0	0	0	0
7/14/2024 17:28	15001	BLMO_T1	23	30	7	0.42	0.35	-0.07	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/14/2024 17:29	12605	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 17:29	12602	MACA_T1	20	22	2	1.74	1.08	-0.66	0	0	0	0	0	0	0	0
7/14/2024 17:29	12601	MACA_T1	18	21	3	0.82	1.13	0.31	1.79	1.72	0	0	0	0	0	0
7/14/2024 17:29	12606	MACA_T1	118	148	30	2.11	2.01	-0.1	0	0	0	0	0	0	0	0
7/14/2024 17:36	43202	MVIL_T2	6	6	0	1.05	0.3	-0.75	-0.38	-0.39	0	0	0	0	0	0
7/14/2024 17:36	43201	MVIL_T2	46	43	-3	0.8	0.79	-0.01	0	0	0	0	0	0	0	0
7/14/2024 17:37	49804	UNIV_T1	5	7	2	0.68	1.3	0.62	0.72	0.69	0	0	0	0	0	0
7/14/2024 17:37	49803	UNIV_T1	11	7	-4	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
7/14/2024 17:38	49803	UNIV_T1	11	7	-4	0.35	0.33	-0.02	-1.3	-1.37	0	0	0	0	0	0
7/14/2024 17:38	49804	UNIV_T1	5	7	2	0.68	1.3	0.62	0	0	0	0	0	0	0	0
7/14/2024 17:39	14605	SWHI_T1	95	120	25	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
7/14/2024 17:39	14603	SWHI_T1	15	18	3	0.56	0.65	0.09	-0.01	-0.01	2	2	0	1200	1200	0
7/14/2024 17:39	14602	SWHI_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 17:39	14601	SWHI_T1	0	10	10	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 17:40	57403	SPAN_T1	74	45	-29	0.64	0.63	-0.01	0	0	0	0	0	0	0	0
7/14/2024 17:40	57401	SPAN_T1	79	19	-60	0.74	0.74	0	-1.93	-1.98	3	3	0	2400	2400	0
7/14/2024 17:42	61502	EPET_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/14/2024 17:42	61505	EPET_T1	0	0	0	0	0	0	0.9	0.96	0	0	0	0	0	0
7/14/2024 17:43	61802	EELI_T2	8	8	0	1.03	0.41	-0.62	0	0	0	0	0	0	0	0
7/14/2024 17:43	61801	EELI_T2	9	7	-2	1.2	0.6	-0.6	0.17	0.15	1	1	0	600	600	0
7/14/2024 17:54	15001	BLMO_T1	12	31	19	0.4	0.64	0.24	0	0	0	0	0	0	0	0
7/14/2024 17:55	15001	BLMO_T1	12	31	19	0.4	0.64	0.24	0	0	0	0	0	0	0	0
7/14/2024 18:25	66505	SMAN_T2	290	329	39	0.98	0.94	-0.04	0	0	0	0	0	0	0	0
7/14/2024 18:25	66504	SMAN_T2	48	40	-8	0.86	0.71	-0.15	0.19	0.2	0	0	0	0	0	0
7/14/2024 18:25	66503	SMAN_T2	23	26	3	0.77	0.83	0.06	0	0	0	0	0	0	0	0
7/14/2024 18:25	42701	AUGU_T1	128	131	3	2.22	2.17	-0.05	0	0	2	2	0	1800	1800	0
7/14/2024 18:30	15203	SFAR_T2	6	9	3	0.78	0.33	-0.45	0	0	2	2	0	2400	2400	0
7/14/2024 18:30	15204	SFAR_T2	9	10	1	0.79	0.4	-0.39	0	0	0	0	0	0	0	0
7/14/2024 18:32	64101	REFR_T1	12	12	0	1.62	0.4	-1.22	-0.29	-0.26	0	0	0	0	0	0
7/14/2024 18:41	54506	ENOL_T2	4	0	-4	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/14/2024 18:41	54503	ENOL_T2	3	3	0	1.33	0.43	-0.9	0	0	0	0	0	0	0	0
7/14/2024 18:41	54501	ENOL_T2	4	1	-3	0.23	0	-0.23	-1.18	-1.21	3	3	0	2700	2700	0
7/14/2024 18:46	54503	ENOL_T2	3	4	1	1.17	0.2	-0.97	0	0	0	0	0	0	0	0
7/14/2024 18:46	54501	ENOL_T2	1	0	-1	0.2	0	-0.2	-1.18	-1.21	3	3	0	2700	2700	0
7/14/2024 18:46	40101	HUNT_T2	336	219	-117	0.75	0.58	-0.17	-0.88	-0.88	0	0	0	0	0	0
7/14/2024 18:51	64101	REFR_T1	12	4	-8	0.73	0.4	-0.33	-0.27	-0.29	0	0	0	0	0	0
7/14/2024 18:57	46004	BERW_T2	3	11	8	0.77	0.4	-0.37	0.45	0.43	0	0	0	0	0	0
7/14/2024 18:57	46002	BERW_T2	2	1	-1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/14/2024 19:05	66504	SMAN_T2	19	21	2	0.66	0.95	0.29	0.1	0.14	0	0	0	0	0	0
7/14/2024 19:05	66505	SMAN_T2	201	321	120	0.72	0.88	0.16	0	0	0	0	0	0	0	0
7/14/2024 19:05	66503	SMAN_T2	16	16	0	0.76	0.32	-0.44	0	0	0	0	0	0	0	0
7/14/2024 19:06	65901	SAKR_T2	4	3	-1	1.7	5.9	4.2	0	0	0	0	0	0	0	0
7/14/2024 19:06	65904	SAKR_T2	1	0	-1	0.1	0	-0.1	-1.16	-1.14	3	3	0	1500	1500	0
7/14/2024 19:06	65902	SAKR_T2	3	2	-1	0.7	0.7	0	0	0	0	0	0	0	0	0
7/14/2024 19:06	65903	SAKR_T2	3	1	-2	0.67	1.1	0.43	0	0	0	0	0	0	0	0
7/14/2024 19:06	59101	WALK_T2	0	0	0	0	0	0	-0.01	-0.09	3	3	0	1800	1800	0
7/14/2024 19:07	67703	WERN_T2	9	4	-5	0.67	0	-0.67	-0.01	-0.01	1	1	0	900	900	0
7/14/2024 19:08	66504	SMAN_T2	19	21	2	0.66	0.95	0.29	0.14	0.1	0	0	0	0	0	0
7/14/2024 19:08	66503	SMAN_T2	16	16	0	0.76	0.32	-0.44	0	0	0	0	0	0	0	0
7/14/2024 19:08	67703	WERN_T2	9	4	-5	0.67	0	-0.67	-0.01	-0.01	1	1	0	900	900	0
7/14/2024 19:08	66505	SMAN_T2	201	321	120	0.72	0.88	0.16	0	0	0	0	0	0	0	0
7/14/2024 19:09	65901	SAKR_T2	4	3	-1	1.7	5.9	4.2	0	0	0	0	0	0	0	0
7/14/2024 19:09	65903	SAKR_T2	3	1	-2	0.67	1.1	0.43	0	0	0	0	0	0	0	0
7/14/2024 19:09	65904	SAKR_T2	1	0	-1	0.1	0	-0.1	-2.32	-2.28	6	6	0	3000	3000	0
7/14/2024 19:09	65902	SAKR_T2	3	2	-1	0.7	0.7	0	0	0	0	0	0	0	0	0
7/14/2024 19:17	44801	EDAN_T2	2	2	0	1.3	1	-0.3	-1.03	-1.04	0	0	0	0	0	0
7/14/2024 19:19	52504	PROG_T1	7	5	-2	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
7/14/2024 19:19	52501	PROG_T1	3	3	0	0.23	0.2	-0.03	-0.24	-0.34	1	1	0	300	300	0
7/14/2024 19:23	52501	PROG_T1	3	3	0	0.23	0.2	-0.03	-0.34	-0.35	1	1	0	300	300	0
7/14/2024 19:23	52504	PROG_T1	7	5	-2	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
7/14/2024 19:26	56803	BENV_T1	12	14	2	1.4	1.48	0.08	0	0	0	0	0	0	0	0
7/14/2024 19:26	56801	BENV_T1	107	118	11	0.86	0.6	-0.26	-0.96	-1.08	8	8	0	4800	4800	0
7/14/2024 19:27	56801	BENV_T1	107	118	11	0.86	0.6	-0.26	-0.24	-0.27	2	2	0	1200	1200	0
7/14/2024 19:27	56803	BENV_T1	12	14	2	1.4	1.48	0.08	0	0	0	0	0	0	0	0
7/14/2024 19:33	64305	LINC_T1	0	0	0	0	0	0	-0.58	-0.64	0	0	0	0	0	0
7/14/2024 19:35	57403	SPAN_T1	9	9	0	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
7/14/2024 19:35	57401	SPAN_T1	2	1	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/14/2024 19:38	44201	POIN_T1	0	0	0	0	0	0	-2.35	-2.46	2	2	0	2400	2400	0
7/14/2024 19:51	41902	REED_T1	165	70	-95	0.75	0.59	-0.16	0	0	0	0	0	0	0	0
7/14/2024 19:51	41903	REED_T1	0	0	0	0	0	0	0.26	0.13	1	1	0	1200	1200	0
7/14/2024 19:51	41901	REED_T1	14	12	-2	0.53	0.73	0.2	0	0	0	0	0	0	0	0
7/14/2024 19:59	61304	EARL_T1	16	30	14	0.19	0.24	0.05	0.25	0.14	1	1	0	600	600	0
7/14/2024 20:10	49804	UNIV_T1	7	2	-5	0.67	0.75	0.08	1.36	1.41	0	0	0	0	0	0
7/14/2024 20:12	62102	ELAN_T1	0	0	0	0	0	0	-0.15	-0.29	0	0	0	0	0	0
7/14/2024 20:16	64305	LINC_T1	0	0	0	0	0	0	-0.68	-0.75	0	0	0	0	0	0
7/14/2024 20:42	67602	WARW_T2	0	0	0	0	0	0	-0.27	-0.27	1	1	0	1200	1200	0
7/14/2024 20:49	67602	WARW_T2	0	0	0	0	0	0	-0.27	-0.27	1	1	0	1200	1200	0
7/14/2024 20:53	12305	LANA_T2	8	6	-2	0.76	0.3	-0.46	0	0	0	0	0	0	0	0
7/14/2024 20:53	12301	LANA_T2	0	0	0	0	0	0	-0.9	-0.9	1	1	0	1200	1200	0
7/14/2024 20:53	12304	LANA_T2	11	11	0	0.69	0.87	0.18	0	0	0	0	0	0	0	0
7/14/2024 20:58	61102	BERK_T5	0	0	0	0	0	0	-0.64	-0.65	2	2	0	1200	1200	0
7/14/2024 21:21	13503	MCMI_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
7/14/2024 21:37	12803	MICK_T1	0	0	0	0	0	0	0.2	0.15	1	1	0	1200	1200	0
7/14/2024 21:38	56501	ROCK_T2	83	169	86	0.21	0.27	0.06	-3.08	-3.1	0	0	0	0	0	0
7/14/2024 21:38	56504	ROCK_T2	12	10	-2	0.89	0.63	-0.26	0	0	0	0	0	0	0	0
7/14/2024 21:40	65001	NEFF_T2	0	0	0	0	0	0	-0.43	-0.48	1	1	0	1200	1200	0
7/14/2024 21:44	54602	SUMM_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/14/2024 21:44	54601	SUMM_T2	3	1	-2	0.33	0	-0.33	0	0	3	3	0	3000	3000	0
7/14/2024 21:47	44203	POIN_T2	2	2	0	0.8	0.5	-0.3	-0.68	-0.71	2	2	0	2100	2100	0
7/14/2024 21:49	63401	HONY_T1	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
7/14/2024 22:10	59101	WALK_T2	0	0	0	0	0	0	0.51	0.73	1	1	0	600	600	0
7/14/2024 22:11	43304	WATS_T2	33	30	-3	0.57	0.5	-0.07	-1.15	-0.62	0	0	0	0	0	0
7/14/2024 22:12	43304	WATS_T2	33	30	-3	0.57	0.5	-0.07	-1.15	-0.62	0	0	0	0	0	0
7/14/2024 22:15	43304	WATS_T2	30	7	-23	0.6	0.2	-0.4	-1.15	-0.62	0	0	0	0	0	0
7/14/2024 22:16	59101	WALK_T2	0	0	0	0	0	0	0.51	0.73	1	1	0	600	600	0
7/14/2024 22:17	59101	WALK_T2	0	0	0	0	0	0	0.51	0.73	1	1	0	600	600	0
7/14/2024 22:19	59101	WALK_T2	0	0	0	0	0	0	0.51	0.73	1	1	0	600	600	0
7/14/2024 22:21	59101	WALK_T2	0	0	0	0	0	0	1.02	1.47	2	2	0	1200	1200	0
7/14/2024 22:23	58803	COCO_T1	0	1	1	0	0	0	-0.78	-0.81	1	1	0	600	600	0
7/14/2024 22:24	52402	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:24	52404	GRPA_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
7/14/2024 22:24	52403	GRPA_T2	95	102	7	1.59	1.14	-0.45	0	0	0	0	0	0	0	0
7/14/2024 22:24	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/14/2024 22:26	44302	BEAV_T2	0	0	0	0	0	0	0.63	0.97	0	0	0	0	0	0
7/14/2024 22:26	65604	QVIL_T2	0	0	0	0	0	0	0.84	0.79	0	0	0	0	0	0
7/14/2024 22:26	59003	MIFF_T1	0	0	0	0	0	0	-0.46	-0.54	0	0	0	0	0	0
7/14/2024 22:26	45602	WOOL_T1	0	0	0	0	0	0	1.2	1.09	0	0	0	0	0	0
7/14/2024 22:26	44301	BEAV_T2	3	5	2	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
7/14/2024 22:27	64302	LINC_T2	0	0	0	0	0	0	1.33	1.29	0	0	0	0	0	0
7/14/2024 22:27	64202	KINZ_T1	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/14/2024 22:27	66701	STRA_T1	2	2	0	0.1	0	-0.1	0.73	0.62	1	1	0	600	600	0
7/14/2024 22:27	52403	GRPA_T2	95	102	7	1.59	1.14	-0.45	0	0	0	0	0	0	0	0
7/14/2024 22:27	64201	KINZ_T1	1	0	-1	0.4	0	-0.4	-0.95	-0.35	4	3	-1	2100	1500	-600
7/14/2024 22:27	52401	GRPA_T2	0	1	1	0	0.2	0.2	-0.72	-0.76	0	0	0	0	0	0
7/14/2024 22:27	56504	ROCK_T2	3	5	2	1.13	1	-0.13	0.5	0.45	0	0	0	0	0	0
7/14/2024 22:27	56501	ROCK_T2	174	3	-171	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
7/14/2024 22:27	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:27	52404	GRPA_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
7/14/2024 22:27	52402	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:27	64204	KINZ_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
7/14/2024 22:28	63403	HONY_T2	0	0	0	0	0	0	-0.59	-0.53	0	0	0	0	0	0
7/14/2024 22:28	62104	ELAN_T1	0	0	0	0	0	0	0.23	0.33	2	2	0	1500	1500	0
7/14/2024 22:28	44703	MUNC_T2	7	1	-6	0.21	0	-0.21	1.04	1.03	0	0	0	0	0	0
7/14/2024 22:28	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/14/2024 22:28	52404	GRPA_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
7/14/2024 22:28	43304	WATS_T2	30	7	-23	0.6	0.2	-0.4	-0.62	-0.66	0	0	0	0	0	0
7/14/2024 22:28	52402	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:28	12304	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:28	44702	MUNC_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:28	65801	HYWN_T1	0	0	0	0	0	0	-1.17	-1.17	2	2	0	1200	1200	0
7/14/2024 22:28	63402	HONY_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
7/14/2024 22:28	52403	GRPA_T2	95	102	7	1.59	1.14	-0.45	0	0	0	0	0	0	0	0
7/14/2024 22:28	51804	EBEN_T2	0	0	0	0	0	0	-0.84	-0.91	1	1	0	900	900	0
7/14/2024 22:28	12305	LANA_T2	2	1	-1	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/14/2024 22:28	12302	LANA_T2	0	0	0	0	0	0	-1.97	-2.02	3	3	0	2700	2700	0
7/14/2024 22:29	66505	SMAN_T2	25	1	-24	0.39	0	-0.39	0.18	0.3	3	3	0	2100	2100	0
7/14/2024 22:29	40903	JESH_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:29	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:29	56501	ROCK_T2	174	3	-171	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
7/14/2024 22:29	21206	ECAR_T2	20	7	-13	1.18	4.2	3.02	0.44	0.39	0	0	0	0	0	0
7/14/2024 22:29	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/14/2024 22:29	40901	JESH_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
7/14/2024 22:29	40902	JESH_T1	0	0	0	0	0	0	-1.41	-1.22	2	2	0	1200	1200	0
7/14/2024 22:29	58402	MORO_T1	0	0	0	0	0	0	-1.06	-1.14	4	4	0	2850	2850	0
7/14/2024 22:29	56504	ROCK_T2	3	5	2	1.13	1	-0.13	0.5	0.45	0	0	0	0	0	0
7/14/2024 22:29	57401	SPAN_T1	0	0	0	0	0	0	-1.57	-0.97	2	1	-1	1500	600	-900
7/14/2024 22:30	56801	BENV_T1	3	3	0	0.53	1.1	0.57	-0.7	-0.71	2	2	0	1200	1200	0
7/14/2024 22:30	46302	ROHR_T1	4	4	0	0.4	0.7	0.3	0.37	0.35	0	0	0	0	0	0
7/14/2024 22:30	29402	BELT_T1	1	3	2	8.9	3.3	-5.6	0	0	0	0	0	0	0	0
7/14/2024 22:30	40101	HUNT_T2	3	0	-3	0.57	0	-0.57	-1.1	-1.12	0	0	0	0	0	0
7/14/2024 22:30	67605	WARW_T1	4	3	-1	1.17	0.97	-0.2	-0.83	-0.95	0	0	0	0	0	0
7/14/2024 22:30	22903	HARW_T1	24	25	1	1.82	1.35	-0.47	0	0	0	0	0	0	0	0
7/14/2024 22:30	61702	ELIZ_T2	0	0	0	0	0	0	-1.18	-1.25	2	2	0	1500	1500	0
7/14/2024 22:30	56803	BENV_T1	5	4	-1	2.02	2.78	0.76	0	0	0	0	0	0	0	0
7/14/2024 22:30	14705	TREX_T1	0	0	0	0	0	0	0.49	0.44	0	0	0	0	0	0
7/14/2024 22:30	61102	BERK_T5	0	0	0	0	0	0	0.17	0.13	1	1	0	300	300	0
7/14/2024 22:30	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
7/14/2024 22:30	47001	HUGH_T2	3	3	0	6.1	6.8	0.7	-2.61	-2.59	2	2	0	1800	1800	0
7/14/2024 22:30	22901	HARW_T1	0	1	1	0	0	0	-1.66	-1.72	1	1	0	1200	1200	0
7/14/2024 22:30	22904	HARW_T1	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/14/2024 22:30	47101	MARL_T1	44	31	-13	1.11	1.15	0.04	-0.78	-0.8	1	1	0	600	600	0
7/14/2024 22:30	29401	BELT_T1	13	0	-13	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/14/2024 22:30	22905	HARW_T1	66	90	24	1.22	1.14	-0.08	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/14/2024 22:30	67603	WARW_T1	0	0	0	0	0	0	-0.21	-0.25	0	0	0	0	0	0
7/14/2024 22:30	52004	LING_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
7/14/2024 22:30	11507	FREE_T2	13	9	-4	0.95	0.4	-0.55	1.13	1.03	1	1	0	600	600	0
7/14/2024 22:31	65901	SAKR_T2	1	1	0	7.8	8	0.2	0	0	0	0	0	0	0	0
7/14/2024 22:31	42701	AUGU_T1	58	48	-10	0.86	0.48	-0.38	0	0	2	2	0	1800	1800	0
7/14/2024 22:31	29402	BELT_T1	1	3	2	8.9	3.3	-5.6	0	0	0	0	0	0	0	0
7/14/2024 22:31	66903	SHIL_T2	0	13	13	0	0.1	0.1	0	0	0	0	0	0	0	0
7/14/2024 22:31	66902	SHIL_T2	0	30	30	0	0.17	0.17	0	0	0	0	0	0	0	0
7/14/2024 22:31	14801	TREI_T2	188	162	-26	1.35	0.68	-0.67	0	0	0	0	0	0	0	0
7/14/2024 22:31	66901	SHIL_T2	57	127	70	0.18	0.28	0.1	-0.21	-0.19	0	0	0	0	0	0
7/14/2024 22:31	56504	ROCK_T2	5	5	0	1.24	0.9	-0.34	0.5	0.45	0	0	0	0	0	0
7/14/2024 22:31	53902	HALI_T2	1	1	0	4.2	4.8	0.6	-0.7	-0.7	0	0	0	0	0	0
7/14/2024 22:31	61505	EPET_T1	0	0	0	0	0	0	1.36	1.34	0	0	0	0	0	0
7/14/2024 22:31	60803	BUCK_T1	14	15	1	0.29	0.59	0.3	0	0	0	0	0	0	0	0
7/14/2024 22:31	46204	DANV_T2	2	8	6	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/14/2024 22:31	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:31	56803	BENV_T1	5	4	-1	2.02	2.78	0.76	-0.06	-0.11	1	1	0	600	600	0
7/14/2024 22:31	11104	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:31	47401	PENS_T1	0	0	0	0	0	0	0.49	0.41	0	0	0	0	0	0
7/14/2024 22:31	56801	BENV_T1	3	3	0	0.53	1.1	0.57	-2.11	-2.14	6	6	0	3600	3600	0
7/14/2024 22:31	61304	EARL_T1	0	18	18	0	0.18	0.18	0.58	0.55	0	0	0	0	0	0
7/14/2024 22:31	62102	ELAN_T1	0	0	0	0	0	0	0.75	0.69	0	0	0	0	0	0
7/14/2024 22:31	61102	BERK_T5	0	0	0	0	0	0	0.35	0.26	2	2	0	600	600	0
7/14/2024 22:31	15704	TANN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:31	43402	BENT_T1	0	0	0	0	0	0	-0.74	-0.75	1	1	0	900	900	0
7/14/2024 22:31	11102	EGYP_T1	9	10	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
7/14/2024 22:31	52404	GRPA_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
7/14/2024 22:31	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:31	29401	BELT_T1	13	0	-13	0.35	0	-0.35	0	0	1	1	0	900	900	0
7/14/2024 22:31	20403	ASHF_T2	1	0	-1	0.2	0	-0.2	-0.4	-0.01	0	0	0	0	0	0
7/14/2024 22:31	45702	LIND_T2	0	1	1	0	0.1	0.1	-1.3	-1.32	0	0	0	0	0	0
7/14/2024 22:31	56501	ROCK_T2	0	3	3	0	0.3	0.3	-2.27	-2.32	0	0	0	0	0	0
7/14/2024 22:31	15701	TANN_T1	1	1	0	4.1	4.4	0.3	0	0	0	0	0	0	0	0
7/14/2024 22:31	67605	WARW_T1	4	3	-1	1.17	0.97	-0.2	-0.83	-0.95	0	0	0	0	0	0
7/14/2024 22:31	46206	DANV_T2	15	15	0	0.73	0.73	0	0	0	0	0	0	0	0	0
7/14/2024 22:31	45602	WOOL_T1	0	0	0	0	0	0	0.6	0.54	0	0	0	0	0	0
7/14/2024 22:31	46203	DANV_T2	0	1	1	0	0.1	0.1	-2.29	-2.31	0	0	0	0	0	0
7/14/2024 22:31	52402	GRPA_T2	2	1	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/14/2024 22:31	60801	BUCK_T1	1	11	10	0.1	0.22	0.12	-0.59	-0.61	1	1	0	600	600	0
7/14/2024 22:31	58801	COCO_T2	0	0	0	0	0	0	-1.47	-1.48	2	2	0	2400	2400	0
7/14/2024 22:31	44601	SALE_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
7/14/2024 22:31	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/14/2024 22:31	20402	ASHF_T2	0	7	7	0	0.25	0.25	0	0	0	0	0	0	0	0
7/14/2024 22:31	65904	SAKR_T2	0	0	0	0	0	0	-1.2	-1.19	3	3	0	1500	1500	0
7/14/2024 22:31	12002	HATF_T1	0	0	0	0	0	0	-1.17	-1.23	1	1	0	1200	1200	0
7/14/2024 22:31	52403	GRPA_T2	97	77	-20	1.46	0.75	-0.71	0	0	0	0	0	0	0	0
7/14/2024 22:32	60502	NMAN_T2	0	0	0	0	0	0	0.4	0.35	0	0	0	0	0	0
7/14/2024 22:32	29401	BELT_T1	13	0	-13	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/14/2024 22:32	55105	WERT_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/14/2024 22:32	40101	HUNT_T2	3	0	-3	0.57	0	-0.57	-1.1	-1.12	0	0	0	0	0	0
7/14/2024 22:32	55101	WERT_T1	0	0	0	0	0	0	2.29	2.34	4	4	0	3300	3300	0
7/14/2024 22:32	54501	ENOL_T2	0	0	0	0	0	0	-0.54	-0.53	2	2	0	1800	1800	0
7/14/2024 22:32	29402	BELT_T1	1	3	2	8.9	3.3	-5.6	0	0	0	0	0	0	0	0
7/14/2024 22:32	42701	AUGU_T1	58	48	-10	0.86	0.48	-0.38	0	0	2	2	0	1800	1800	0
7/14/2024 22:32	20603	GRWO_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/14/2024 22:32	20601	GRWO_T2	1	1	0	3.1	2	-1.1	0.04	0.02	0	0	0	0	0	0
7/14/2024 22:32	66505	SMAN_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/14/2024 22:32	54602	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:32	49803	UNIV_T1	0	0	0	0	0	0	-1.8	-1.86	0	0	0	0	0	0
7/14/2024 22:32	66504	SMAN_T2	0	4	4	0	0	0	-0.9	-1.04	0	0	0	0	0	0
7/14/2024 22:32	67603	WARW_T1	0	0	0	0	0	0	-0.21	-0.25	0	0	0	0	0	0
7/14/2024 22:32	16302	ALPA_T2	0	0	0	0	0	0	2.2	2.11	0	0	0	0	0	0
7/14/2024 22:32	12701	MACU_T1	0	0	0	0	0	0	-0.83	-0.9	1	1	0	1200	1200	0
7/14/2024 22:32	60501	NMAN_T2	3	3	0	5	5.33	0.33	0	0	0	0	0	0	0	0
7/14/2024 22:32	57401	SPAN_T1	0	0	0	0	0	0	-1.57	-0.97	2	1	-1	1500	600	-900
7/14/2024 22:32	61102	BERK_T5	0	0	0	0	0	0	0.35	0.26	2	2	0	600	600	0
7/14/2024 22:32	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/14/2024 22:32	49804	UNIV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/14/2024 22:32	25402	LAHA_T2	0	0	0	0	0	0	-0.53	-0.5	0	0	0	0	0	0
7/14/2024 22:32	67605	WARW_T1	4	3	-1	1.17	0.97	-0.2	0	0	0	0	0	0	0	0
7/14/2024 22:33	14403	SSLA_T1	4	0	-4	0.33	0	-0.33	-0.06	-0.06	2	2	0	1200	1200	0
7/14/2024 22:33	22901	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:33	54602	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:33	66703	STRA_T1	0	0	0	0	0	0	-0.98	0.13	0	0	0	0	0	0
7/14/2024 22:33	56501	ROCK_T2	0	3	3	0	0.3	0.3	-2.27	-2.32	0	0	0	0	0	0
7/14/2024 22:33	60502	NMAN_T2	0	0	0	0	0	0	0.4	0.35	0	0	0	0	0	0
7/14/2024 22:33	51401	LYKE_T1	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
7/14/2024 22:33	20403	ASHF_T2	1	0	-1	0.2	0	-0.2	-0.4	-0.01	0	0	0	0	0	0
7/14/2024 22:33	20402	ASHF_T2	0	7	7	0	0.25	0.25	0	0	0	0	0	0	0	0
7/14/2024 22:33	22904	HARW_T1	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/14/2024 22:33	51402	LYKE_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
7/14/2024 22:33	14404	SSLA_T1	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
7/14/2024 22:33	15103	UPHA_T2	0	0	0	0	0	0	0.88	0.87	0	0	0	0	0	0
7/14/2024 22:33	47101	MARL_T1	44	31	-13	1.11	1.15	0.04	-0.78	-0.8	1	1	0	600	600	0
7/14/2024 22:33	61501	EPET_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
7/14/2024 22:33	46002	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:33	22903	HARW_T1	24	25	1	1.82	1.35	-0.47	0	0	0	0	0	0	0	0
7/14/2024 22:33	48302	ORWI_T2	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
7/14/2024 22:33	56504	ROCK_T2	5	5	0	1.24	0.9	-0.34	0	0	0	0	0	0	0	0
7/14/2024 22:33	66504	SMAN_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:33	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/14/2024 22:33	57401	SPAN_T1	0	0	0	0	0	0	-1.57	-0.97	2	1	-1	1500	600	-900
7/14/2024 22:33	24902	WHHA_T1	18	8	-10	0.69	0.3	-0.39	0.36	0.37	0	0	0	0	0	0
7/14/2024 22:33	51604	DUKE_T2	0	0	0	0	0	0	-1.92	-1.95	1	1	0	900	900	0
7/14/2024 22:33	46004	BERW_T2	1	0	-1	0.3	0	-0.3	0.06	0.02	0	0	0	0	0	0
7/14/2024 22:33	60501	NMAN_T2	3	3	0	5	5.33	0.33	0	0	0	0	0	0	0	0
7/14/2024 22:33	61102	BERK_T5	0	0	0	0	0	0	0.17	0.13	1	1	0	300	300	0
7/14/2024 22:33	65901	SAKR_T2	1	1	0	7.8	8	0.2	-0.96	-0.92	2	2	0	1500	1500	0
7/14/2024 22:33	61504	EPET_T2	0	0	0	0	0	0	-0.95	-0.97	0	0	0	0	0	0
7/14/2024 22:33	67605	WARW_T1	4	3	-1	1.17	0.97	-0.2	-2.5	-2.86	0	0	0	0	0	0
7/14/2024 22:33	15001	BLMO_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/14/2024 22:33	54701	NEBL_T1	1	3	2	1	0.85	-0.15	0	0	1	1	0	600	600	0
7/14/2024 22:33	14402	SSLA_T1	4	4	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/14/2024 22:33	66505	SMAN_T2	1	1	0	0.3	0	-0.3	0.18	0.3	3	3	0	2100	2100	0
7/14/2024 22:33	67703	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	2	2	0	1800	1800	0
7/14/2024 22:33	22905	HARW_T1	66	90	24	1.22	1.14	-0.08	-0.26	-0.24	0	0	0	0	0	0
7/14/2024 22:33	66701	STRA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/14/2024 22:33	51804	EBEN_T2	0	0	0	0	0	0	-0.84	-0.91	1	1	0	900	900	0
7/14/2024 22:34	66505	SMAN_T2	1	1	0	0.3	0	-0.3	0.18	0.3	3	3	0	2100	2100	0
7/14/2024 22:34	52402	GRPA_T2	2	1	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/14/2024 22:34	40101	HUNT_T2	3	0	-3	0.57	0	-0.57	-1.1	-1.12	0	0	0	0	0	0
7/14/2024 22:34	65904	SAKR_T2	0	0	0	0	0	0	-2.39	-2.38	6	6	0	3000	3000	0
7/14/2024 22:34	60501	NMAN_T2	3	3	0	5	5.33	0.33	0	0	0	0	0	0	0	0
7/14/2024 22:34	46302	ROHR_T1	4	4	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
7/14/2024 22:34	66504	SMAN_T2	0	4	4	0	0	0	-0.45	-0.52	0	0	0	0	0	0
7/14/2024 22:34	58803	COCO_T1	0	1	1	0	0.7	0.7	-0.78	-0.81	1	1	0	600	600	0
7/14/2024 22:34	16302	ALPA_T2	0	0	0	0	0	0	1.1	1.05	0	0	0	0	0	0
7/14/2024 22:34	56501	ROCK_T2	0	3	3	0	0.3	0.3	-4.55	-4.65	0	0	0	0	0	0
7/14/2024 22:34	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
7/14/2024 22:34	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/14/2024 22:34	57404	SPAN_T2	0	0	0	0	0	0	-1.93	-0.74	1	1	0	1200	1200	0
7/14/2024 22:34	65901	SAKR_T2	1	1	0	7.8	8	0.2	-0.96	-0.92	2	2	0	1500	1500	0
7/14/2024 22:34	42601	TUSC_T1	0	3	3	0	0	0	-1.14	0.03	2	2	0	1800	1800	0
7/14/2024 22:34	61703	ELIZ_T1	0	0	0	0	0	0	-1.71	-1.53	1	1	0	900	900	0
7/14/2024 22:34	63304	GREE_T1	0	0	0	0	0	0	-2.35	-2.48	0	0	0	0	0	0
7/14/2024 22:34	61501	EPET_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
7/14/2024 22:34	60502	NMAN_T2	0	0	0	0	0	0	0.4	0.35	0	0	0	0	0	0
7/14/2024 22:34	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.42	-0.41	0	0	0	0	0	0
7/14/2024 22:34	54602	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:34	55002	NEWP_T1	2	3	1	0.1	0.57	0.47	0	0	0	0	0	0	0	0
7/14/2024 22:34	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/14/2024 22:34	42701	AUGU_T1	58	48	-10	0.86	0.48	-0.38	0	0	2	2	0	1800	1800	0
7/14/2024 22:34	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/14/2024 22:34	11404	FARM_T1	1	1	0	1.1	0.4	-0.7	0	0	0	0	0	0	0	0
7/14/2024 22:34	56504	ROCK_T2	5	5	0	1.24	0.9	-0.34	1	0.91	0	0	0	0	0	0
7/14/2024 22:34	46301	ROHR_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
7/14/2024 22:34	61701	ELIZ_T1	1	1	0	3.8	4.2	0.4	0	0	0	0	0	0	0	0
7/14/2024 22:34	11102	EGYP_T1	9	10	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
7/14/2024 22:34	67605	WARW_T1	4	3	-1	1.17	0.97	-0.2	-0.83	-0.95	0	0	0	0	0	0
7/14/2024 22:34	52403	GRPA_T2	97	77	-20	1.46	0.75	-0.71	-0.12	-0.13	0	0	0	0	0	0
7/14/2024 22:34	53902	HALI_T2	1	1	0	4.2	4.8	0.6	-0.7	-0.7	0	0	0	0	0	0
7/14/2024 22:34	61506	EPET_T2	0	0	0	0	0	0	-0.64	-0.6	1	1	0	900	900	0
7/14/2024 22:34	67203	TEHI_T1	0	0	0	0	0	0	1.78	1.98	1	1	0	900	900	0
7/14/2024 22:34	45302	WBER_T2	0	0	0	0	0	0	1.38	1.4	0	0	0	0	0	0
7/14/2024 22:34	11104	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:34	11405	FARM_T1	0	0	0	0	0	0	0.17	0.08	1	1	0	1200	1200	0
7/14/2024 22:34	47001	HUGH_T2	3	3	0	6.1	6.8	0.7	-1.3	-1.3	1	1	0	900	900	0
7/14/2024 22:34	57401	SPAN_T1	0	0	0	0	0	0	-1.57	-0.97	2	1	-1	1500	600	-900
7/14/2024 22:35	46206	DANV_T2	15	15	0	0.73	0.73	0	0	0	0	0	0	0	0	0
7/14/2024 22:35	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/14/2024 22:35	42902	MIDD_T2	1	1	0	0.1	0	-0.1	-1.86	-1.92	2	2	0	1200	1200	0
7/14/2024 22:35	51603	DUKE_T1	0	0	0	0	0	0	-0.85	-0.86	1	1	0	900	900	0
7/14/2024 22:35	52004	LING_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
7/14/2024 22:35	61703	ELIZ_T1	0	0	0	0	0	0	-1.71	-1.53	1	1	0	900	900	0
7/14/2024 22:35	53902	HALI_T2	1	1	0	4.2	4.8	0.6	-0.7	-0.7	0	0	0	0	0	0
7/14/2024 22:35	57101	SPHI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/14/2024 22:35	46204	DANV_T2	2	8	6	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/14/2024 22:35	56801	BENV_T1	3	3	0	0.53	1.1	0.57	-2.81	-2.85	8	8	0	4800	4800	0
7/14/2024 22:35	63401	HONY_T1	0	0	0	0	0	0	0.66	0.71	0	0	0	0	0	0
7/14/2024 22:35	46801	HEPB_T2	20	31	11	0.27	0.33	0.06	0.22	0.19	0	0	0	0	0	0
7/14/2024 22:35	57401	SPAN_T1	0	0	0	0	0	0	-1.57	-0.97	2	1	-1	1500	600	-900
7/14/2024 22:35	42901	MIDD_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/14/2024 22:35	58705	ROSE_T2	2	4	2	0.5	0.58	0.08	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/14/2024 22:35	51003	NHAR_T1	9	6	-3	1.43	0	-1.43	-2.64	-2.66	1	1	0	1200	1200	0
7/14/2024 22:35	46803	HEPB_T2	6	11	5	0.15	0.22	0.07	0	0	0	0	0	0	0	0
7/14/2024 22:35	56501	ROCK_T2	0	3	3	0	0.3	0.3	-2.27	-2.32	0	0	0	0	0	0
7/14/2024 22:35	52403	GRPA_T2	97	77	-20	1.46	0.75	-0.71	0	0	0	0	0	0	0	0
7/14/2024 22:35	44601	SALE_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
7/14/2024 22:35	55002	NEWP_T1	2	3	1	0.1	0.57	0.47	0	0	0	0	0	0	0	0
7/14/2024 22:35	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.42	-0.41	0	0	0	0	0	0
7/14/2024 22:35	46203	DANV_T2	0	1	1	0	0.1	0.1	-2.29	-2.31	0	0	0	0	0	0
7/14/2024 22:35	58706	ROSE_T2	2	1	-1	0.9	1.1	0.2	-0.01	-0.06	1	1	0	600	600	0
7/14/2024 22:35	58701	ROSE_T2	0	0	0	0	0	0	-1.61	-1.64	1	1	0	600	600	0
7/14/2024 22:35	65205	PRIN_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
7/14/2024 22:35	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:35	57104	SPHI_T2	0	0	0	0	0	0	-1.14	-1.17	0	0	0	0	0	0
7/14/2024 22:35	61701	ELIZ_T1	1	1	0	3.8	4.2	0.4	0	0	0	0	0	0	0	0
7/14/2024 22:35	56803	BENV_T1	5	4	-1	2.02	2.78	0.76	0	0	0	0	0	0	0	0
7/14/2024 22:35	52402	GRPA_T2	2	1	-1	0.5	0.2	-0.3	-0.54	-0.59	0	0	0	0	0	0
7/14/2024 22:35	55102	WERT_T2	0	0	0	0	0	0	-1.05	-1.08	1	1	0	600	600	0
7/14/2024 22:35	67602	WARW_T2	0	16	16	0	0.12	0.12	-0.4	-0.48	1	1	0	1200	1200	0
7/14/2024 22:35	56504	ROCK_T2	5	5	0	1.24	0.9	-0.34	0.5	0.45	0	0	0	0	0	0
7/14/2024 22:35	47401	PENS_T1	0	0	0	0	0	0	1.48	1.24	0	0	0	0	0	0
7/14/2024 22:35	57106	SPHI_T2	3	3	0	0.37	0.73	0.36	0	0	0	0	0	0	0	0
7/14/2024 22:35	51004	NHAR_T1	9	7	-2	1.08	2.33	1.25	0	0	0	0	0	0	0	0
7/14/2024 22:35	58803	COCO_T1	0	1	1	0	0.7	0.7	-0.78	-0.81	1	1	0	600	600	0
7/14/2024 22:35	11303	EMMA_T1	0	0	0	0	0	0	-2.47	-2.48	0	0	0	0	0	0
7/14/2024 22:35	14801	TREI_T2	188	162	-26	1.35	0.68	-0.67	0	0	0	0	0	0	0	0
7/14/2024 22:35	42903	MIDD_T2	2	2	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
7/14/2024 22:36	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/14/2024 22:36	20403	ASHF_T2	1	0	-1	0.2	0	-0.2	-0.4	-0.01	0	0	0	0	0	0
7/14/2024 22:36	16302	ALPA_T2	0	0	0	0	0	0	1.05	1.04	0	0	0	0	0	0
7/14/2024 22:36	42901	MIDD_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/14/2024 22:36	60803	BUCK_T1	14	15	1	0.29	0.59	0.3	0	0	0	0	0	0	0	0
7/14/2024 22:36	54602	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:36	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
7/14/2024 22:36	22901	HARW_T1	0	1	1	0	0	0	-1.66	-1.72	1	1	0	1200	1200	0
7/14/2024 22:36	42902	MIDD_T2	1	1	0	0.1	0	-0.1	-0.96	-0.97	1	1	0	600	600	0
7/14/2024 22:36	21203	ECAR_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
7/14/2024 22:36	24902	WHHA_T1	18	8	-10	0.69	0.3	-0.39	0.36	0.37	0	0	0	0	0	0
7/14/2024 22:36	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:36	47101	MARI_T1	44	31	-13	1.11	1.15	0.04	-0.78	-0.8	1	1	0	600	600	0
7/14/2024 22:36	53902	HALI_T2	1	1	0	4.2	4.8	0.6	-0.7	-0.7	0	0	0	0	0	0
7/14/2024 22:36	22905	HARW_T1	66	90	24	1.22	1.14	-0.08	0	0	0	0	0	0	0	0
7/14/2024 22:36	56504	ROCK_T2	5	5	0	1.24	0.9	-0.34	0	0	0	0	0	0	0	0
7/14/2024 22:36	56801	BENV_T1	3	3	0	0.53	1.1	0.57	-1.4	-1.43	4	4	0	2400	2400	0
7/14/2024 22:36	52403	GRPA_T2	97	77	-20	1.46	0.75	-0.71	0	0	0	0	0	0	0	0
7/14/2024 22:36	46204	DANV_T2	2	8	6	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/14/2024 22:36	22903	HARW_T1	24	25	1	1.82	1.35	-0.47	0	0	0	0	0	0	0	0
7/14/2024 22:36	44201	POIN_T1	0	0	0	0	0	0	-1.19	-1.12	1	1	0	1200	1200	0
7/14/2024 22:36	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/14/2024 22:36	46801	HEPB_T2	20	31	11	0.27	0.33	0.06	0	0	0	0	0	0	0	0
7/14/2024 22:36	43402	BENT_T1	0	0	0	0	0	0	-0.75	-0.78	1	1	0	900	900	0
7/14/2024 22:36	12701	MACU_T1	0	0	0	0	0	0	-0.9	-0.92	1	1	0	1200	1200	0
7/14/2024 22:36	55105	WERT_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/14/2024 22:36	60201	ATGL_T2	0	0	0	0	0	0	0.5	0.51	1	1	0	300	300	0
7/14/2024 22:36	52001	LING_T1	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
7/14/2024 22:36	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/14/2024 22:36	20402	ASHF_T2	0	7	7	0	0.25	0.25	0	0	0	0	0	0	0	0
7/14/2024 22:36	51603	DUKE_T1	0	0	0	0	0	0	-0.85	-0.86	1	1	0	900	900	0
7/14/2024 22:36	57401	SPAN_T1	0	0	0	0	0	0	-1.57	-0.97	2	1	-1	1500	600	-900
7/14/2024 22:36	22904	HARW_T1	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/14/2024 22:36	52402	GRPA_T2	2	1	-1	0.5	0.2	-0.3	-0.54	-0.59	0	0	0	0	0	0
7/14/2024 22:36	60801	BUCK_T1	1	11	10	0.1	0.22	0.12	-0.61	0.04	1	1	0	600	600	0
7/14/2024 22:36	56803	BENV_T1	5	4	-1	2.02	2.78	0.76	-0.11	-0.21	2	2	0	1200	1200	0
7/14/2024 22:36	55101	WERT_T1	0	0	0	0	0	0	-2.29	-2.34	4	4	0	3300	3300	0
7/14/2024 22:36	56501	ROCK_T2	0	3	3	0	0.3	0.3	-9.09	-9.29	0	0	0	0	0	0
7/14/2024 22:36	55408	SHER_T2	1	1	0	1	1.2	0.2	-0.94	-0.94	1	1	0	1200	1200	0
7/14/2024 22:36	13503	MCMI_T2	0	0	0	0	0	0	-0.56	-0.62	0	0	0	0	0	0
7/14/2024 22:36	67001	STHI_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
7/14/2024 22:36	57404	SPAN_T2	0	0	0	0	0	0	-1.93	-0.74	1	1	0	1200	1200	0
7/14/2024 22:36	46203	DANV_T2	0	1	1	0	0.1	0.1	-2.31	-2.34	0	0	0	0	0	0
7/14/2024 22:36	46206	DANV_T2	15	15	0	0.73	0.73	0	0	0	0	0	0	0	0	0
7/14/2024 22:36	46803	HEPB_T2	6	11	5	0.15	0.22	0.07	0.75	0.73	0	0	0	0	0	0
7/14/2024 22:36	42903	MIDD_T2	2	2	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
7/14/2024 22:36	65604	QVIL_T2	0	0	0	0	0	0	0.79	0.8	0	0	0	0	0	0
7/14/2024 22:37	22601	KIMB_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/14/2024 22:37	14402	SSLA_T1	4	4	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/14/2024 22:37	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/14/2024 22:37	54602	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:37	66504	SMAN_T2	0	4	4	0	0	0	-0.52	0.62	0	0	0	0	0	0
7/14/2024 22:37	22602	KIMB_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
7/14/2024 22:37	54501	ENOL_T2	0	0	0	0	0	0	-0.53	-0.56	2	2	0	1800	1800	0
7/14/2024 22:37	14404	SSLA_T1	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
7/14/2024 22:37	22905	HARW_T1	66	90	24	1.22	1.14	-0.08	0	0	0	0	0	0	0	0
7/14/2024 22:37	46206	DANV_T2	15	15	0	0.73	0.73	0	1.13	1.05	2	2	0	2100	2100	0
7/14/2024 22:37	67804	WLAN_T1	6	8	2	0.3	0.35	0.05	0	0	0	0	0	0	0	0
7/14/2024 22:37	56801	BENV_T1	3	3	0	0.53	1.1	0.57	-1.43	-1.51	4	4	0	2400	2400	0
7/14/2024 22:37	55105	WERT_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/14/2024 22:37	61701	ELIZ_T1	1	1	0	3.8	4.2	0.4	0	0	0	0	0	0	0	0
7/14/2024 22:37	52402	GRPA_T2	2	1	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/14/2024 22:37	22904	HARW_T1	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/14/2024 22:37	47401	PENS_T1	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
7/14/2024 22:37	52504	PROG_T1	10	15	5	0.12	0.25	0.13	0	0	0	0	0	0	0	0
7/14/2024 22:37	43202	MVIL_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
7/14/2024 22:37	44201	POIN_T1	0	0	0	0	0	0	-1.19	-1.12	1	1	0	1200	1200	0
7/14/2024 22:37	67801	WLAN_T1	0	0	0	0	0	0	-1.02	-1.08	0	0	0	0	0	0
7/14/2024 22:37	61102	BERK_T5	0	0	0	0	0	0	0.26	0.16	2	2	0	600	600	0
7/14/2024 22:37	52403	GRPA_T2	97	77	-20	1.46	0.75	-0.71	-0.13	-0.17	0	0	0	0	0	0
7/14/2024 22:37	56803	BENV_T1	5	4	-1	2.02	2.78	0.76	-0.11	-0.14	1	1	0	600	600	0
7/14/2024 22:37	22901	HARW_T1	0	1	1	0	0	0	-1.72	-1.67	1	1	0	1200	1200	0
7/14/2024 22:37	52501	PROG_T1	6	106	100	0.2	0.17	-0.03	-0.58	-0.61	1	1	0	300	300	0
7/14/2024 22:37	55102	WERT_T2	0	0	0	0	0	0	-1.08	-1.08	1	1	0	600	600	0
7/14/2024 22:37	14403	SSLA_T1	4	0	-4	0.33	0	-0.33	-0.06	-0.12	2	2	0	1200	1200	0
7/14/2024 22:37	55101	WERT_T1	0	0	0	0	0	0	-2.34	-2.38	4	4	0	3300	3300	0
7/14/2024 22:37	22903	HARW_T1	24	25	1	1.82	1.35	-0.47	0	0	0	0	0	0	0	0
7/14/2024 22:37	46204	DANV_T2	2	8	6	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/14/2024 22:37	48302	ORWI_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
7/14/2024 22:37	61703	ELIZ_T1	0	0	0	0	0	0	-3.06	-3.08	2	2	0	1800	1800	0
7/14/2024 22:37	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/14/2024 22:37	66505	SMAN_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/14/2024 22:37	46203	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/14/2024 22:38	40901	JESH_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
7/14/2024 22:38	41901	REED_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
7/14/2024 22:38	16002	DORN_T2	8	0	-8	0.4	0	-0.4	0.06	0	1	1	0	1200	1200	0
7/14/2024 22:38	40903	JESH_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:38	60502	NMAN_T2	0	0	0	0	0	0	0.35	0.28	0	0	0	0	0	0
7/14/2024 22:38	14603	SWHI_T1	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1200	1200	0
7/14/2024 22:38	46206	DANV_T2	15	15	0	0.73	0.73	0	1.13	1.05	2	2	0	2100	2100	0
7/14/2024 22:38	42903	MIDD_T2	2	2	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
7/14/2024 22:38	56801	BENV_T1	3	3	0	0.53	1.1	0.57	-2.14	-2.26	6	6	0	3600	3600	0
7/14/2024 22:38	16006	DORN_T2	2	1	-1	0.75	0	-0.75	0	0	0	0	0	0	0	0
7/14/2024 22:38	40902	JESH_T1	0	0	0	0	0	0	-1.22	-1.3	2	2	0	1200	1200	0
7/14/2024 22:38	51604	DUKE_T2	0	0	0	0	0	0	-1.95	-2.01	1	1	0	900	900	0
7/14/2024 22:38	43304	WATS_T2	7	6	-1	0.53	0.18	-0.35	-0.66	-0.66	0	0	0	0	0	0
7/14/2024 22:38	49803	UNIV_T1	0	0	0	0	0	0	-1.86	-1.8	0	0	0	0	0	0
7/14/2024 22:38	41902	REED_T1	10	2	-8	0.45	0	-0.45	0.29	0.35	1	1	0	900	900	0
7/14/2024 22:38	56501	ROCK_T2	0	3	3	0	0.3	0.3	-2.32	-2.33	0	0	0	0	0	0
7/14/2024 22:38	42902	MIDD_T2	1	1	0	0.1	0	-0.1	-0.96	-0.97	1	1	0	600	600	0
7/14/2024 22:38	60803	BUCK_T1	14	15	1	0.29	0.59	0.3	0	0	0	0	0	0	0	0
7/14/2024 22:38	42901	MIDD_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/14/2024 22:38	20601	GRWO_T2	1	1	0	3.1	2	-1.1	0.02	0.03	0	0	0	0	0	0
7/14/2024 22:38	56803	BENV_T1	5	4	-1	2.02	2.78	0.76	0	0	0	0	0	0	0	0
7/14/2024 22:38	12602	MACA_T1	9	9	0	0.87	0.64	-0.23	0	0	0	0	0	0	0	0
7/14/2024 22:38	12606	MACA_T1	45	38	-7	1.42	0.85	-0.57	0	0	0	0	0	0	0	0
7/14/2024 22:38	55101	WERT_T1	0	0	0	0	0	0	-2.34	-2.38	4	4	0	3300	3300	0
7/14/2024 22:38	67602	WARW_T2	0	16	16	0	0.12	0.12	-0.48	-0.41	1	1	0	1200	1200	0
7/14/2024 22:38	56504	ROCK_T2	5	5	0	1.24	0.9	-0.34	0	0	0	0	0	0	0	0
7/14/2024 22:38	43402	BENT_T1	0	0	0	0	0	0	-0.75	-0.78	1	1	0	900	900	0
7/14/2024 22:38	12701	MACU_T1	0	0	0	0	0	0	-0.9	-0.92	1	1	0	1200	1200	0
7/14/2024 22:38	12601	MACA_T1	0	0	0	0	0	0	1.38	1.35	0	0	0	0	0	0
7/14/2024 22:38	55105	WERT_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/14/2024 22:38	42701	AUGU_T1	58	48	-10	0.86	0.48	-0.38	0	0	2	2	0	1800	1800	0
7/14/2024 22:38	51003	NHAR_T1	9	6	-3	1.43	0	-1.43	0	0	0	0	0	0	0	0
7/14/2024 22:38	51603	DUKE_T1	0	0	0	0	0	0	-0.86	-0.9	1	1	0	900	900	0
7/14/2024 22:38	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/14/2024 22:38	44301	BEAV_T2	5	3	-2	0.56	0	-0.56	-0.91	-0.93	1	1	0	600	600	0
7/14/2024 22:38	60801	BUCK_T1	1	11	10	0.1	0.22	0.12	-0.61	0.04	1	0	-1	600	0	-600
7/14/2024 22:38	49804	UNIV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/14/2024 22:38	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:38	46203	DANV_T2	0	1	1	0	0.1	0.1	-2.31	-2.34	0	0	0	0	0	0
7/14/2024 22:38	44801	EDAN_T2	1	1	0	0.9	0.9	0	-1.26	-1.29	0	0	0	0	0	0
7/14/2024 22:38	47401	PENS_T1	0	0	0	0	0	0	0.82	0.87	0	0	0	0	0	0
7/14/2024 22:38	51004	NHAR_T1	9	7	-2	1.08	2.33	1.25	-1.09	-1.14	0	0	0	0	0	0
7/14/2024 22:38	60501	NMAN_T2	3	3	0	5	5.33	0.33	0	0	0	0	0	0	0	0
7/14/2024 22:38	48303	ORWI_T2	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
7/14/2024 22:38	20603	GRWO_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/14/2024 22:38	15001	BLMO_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/14/2024 22:38	46204	DANV_T2	2	8	6	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/14/2024 22:38	61801	EELI_T2	0	0	0	0	0	0	-0.08	-0.11	1	1	0	600	600	0
7/14/2024 22:39	52504	PROG_T1	10	15	5	0.12	0.25	0.13	0	0	0	0	0	0	0	0
7/14/2024 22:39	57103	SPHI_T2	0	0	0	0	0	0	-0.27	-0.31	1	1	0	600	600	0
7/14/2024 22:39	62102	ELAN_T1	0	0	0	0	0	0	0.69	0.62	0	0	0	0	0	0
7/14/2024 22:39	56501	ROCK_T2	0	3	3	0	0.3	0.3	-6.97	-6.98	0	0	0	0	0	0
7/14/2024 22:39	55105	WERT_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/14/2024 22:39	43202	MVIL_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/14/2024 22:39	57106	SPHI_T2	3	3	0	0.37	0.73	0.36	0	0	0	0	0	0	0	0
7/14/2024 22:39	46204	DANV_T2	2	8	6	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/14/2024 22:39	56504	ROCK_T2	5	5	0	1.24	0.9	-0.34	0	0	0	0	0	0	0	0
7/14/2024 22:39	42701	AUGU_T1	58	48	-10	0.86	0.48	-0.38	0	0	2	2	0	1800	1800	0
7/14/2024 22:39	20403	ASHF_T2	1	0	-1	0.2	0	-0.2	-0.01	0.77	0	0	0	0	0	0
7/14/2024 22:39	42902	MIDD_T2	1	1	0	0.1	0	-0.1	-0.96	-0.97	1	1	0	600	600	0
7/14/2024 22:39	57303	MOAL_T2	1	1	0	7.8	7.6	-0.2	0	0	0	0	0	0	0	0
7/14/2024 22:39	56803	BENV_T1	5	4	-1	2.02	2.78	0.76	0	0	0	0	0	0	0	0
7/14/2024 22:39	46206	DANV_T2	15	15	0	0.73	0.73	0	0	0	0	0	0	0	0	0
7/14/2024 22:39	61701	ELIZ_T1	1	1	0	3.8	4.2	0.4	0	0	0	0	0	0	0	0
7/14/2024 22:39	42903	MIDD_T2	2	2	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
7/14/2024 22:39	67602	WARW_T2	0	16	16	0	0.12	0.12	-0.48	-0.41	1	1	0	1200	1200	0
7/14/2024 22:39	56801	BENV_T1	3	3	0	0.53	1.1	0.57	-0.71	-0.75	2	2	0	1200	1200	0
7/14/2024 22:39	46203	DANV_T2	0	1	1	0	0.1	0.1	-2.31	-2.34	0	0	0	0	0	0
7/14/2024 22:39	55101	WERT_T1	0	0	0	0	0	0	-2.34	-2.38	4	4	0	3300	3300	0
7/14/2024 22:39	41902	REED_T1	10	2	-8	0.45	0	-0.45	0.29	0.35	1	1	0	900	900	0
7/14/2024 22:39	57304	MOAL_T2	0	1	1	0	0	0	-0.5	-0.64	0	0	0	0	0	0
7/14/2024 22:39	57401	SPAN_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	600	600	0
7/14/2024 22:39	52501	PROG_T1	6	106	100	0.2	0.17	-0.03	-0.58	-0.61	1	1	0	300	300	0
7/14/2024 22:39	25503	MADI_T1	2	36	34	0.15	0.17	0.02	-0.53	-0.56	0	0	0	0	0	0
7/14/2024 22:39	47401	PENS_T1	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
7/14/2024 22:39	20402	ASHF_T2	0	7	7	0	0.25	0.25	0	0	0	0	0	0	0	0
7/14/2024 22:39	57101	SPHI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/14/2024 22:39	42901	MIDD_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/14/2024 22:39	41901	REED_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
7/14/2024 22:39	61703	ELIZ_T1	0	0	0	0	0	0	-1.53	-1.54	1	1	0	900	900	0
7/14/2024 22:40	66504	SMAN_T2	0	4	4	0	0	0	-0.52	0.62	0	0	0	0	0	0
7/14/2024 22:40	42902	MIDD_T2	1	1	0	0.1	0	-0.1	-0.96	-0.97	1	1	0	600	600	0
7/14/2024 22:40	14402	SSLA_T1	4	4	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/14/2024 22:40	51003	NHAR_T1	9	6	-3	1.43	0	-1.43	0	0	0	0	0	0	0	0
7/14/2024 22:40	52002	LING_T2	0	0	0	0	0	0	-0.21	-0.35	0	0	0	0	0	0
7/14/2024 22:40	14403	SSLA_T1	4	0	-4	0.33	0	-0.33	-0.06	-0.12	2	2	0	1200	1200	0
7/14/2024 22:40	46801	HEPB_T2	20	31	11	0.27	0.33	0.06	0.19	0.2	0	0	0	0	0	0
7/14/2024 22:40	56803	BENV_T1	5	4	-1	2.02	2.78	0.76	0	0	0	0	0	0	0	0
7/14/2024 22:40	66505	SMAN_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/14/2024 22:40	40603	PIGR_T1	2	0	-2	0.2	0	-0.2	-0.56	-0.6	0	0	0	0	0	0
7/14/2024 22:40	58803	COCO_T1	0	1	1	0	0.7	0.7	-0.81	-0.83	1	1	0	600	600	0
7/14/2024 22:40	42901	MIDD_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/14/2024 22:40	40602	PIGR_T1	2	1	-1	0.85	1.1	0.25	0	0	0	0	0	0	0	0
7/14/2024 22:40	46803	HEPB_T2	6	11	5	0.15	0.22	0.07	0	0	0	0	0	0	0	0
7/14/2024 22:40	55002	NEWP_T1	2	3	1	0.1	0.57	0.47	0	0	0	0	0	0	0	0
7/14/2024 22:40	67602	WARW_T2	0	16	16	0	0.12	0.12	-0.48	-0.41	1	1	0	1200	1200	0
7/14/2024 22:40	47401	PENS_T1	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
7/14/2024 22:40	51603	DUKE_T1	0	0	0	0	0	0	-0.86	-0.9	1	1	0	900	900	0
7/14/2024 22:40	52504	PROG_T1	10	15	5	0.12	0.25	0.13	0	0	0	0	0	0	0	0
7/14/2024 22:40	45802	HEGI_T2	12	12	0	0.46	0.4	-0.06	-0.54	-0.32	1	1	0	900	900	0
7/14/2024 22:40	46203	DANV_T2	0	1	1	0	0.1	0.1	-2.31	-2.34	0	0	0	0	0	0
7/14/2024 22:40	14404	SSLA_T1	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
7/14/2024 22:40	56801	BENV_T1	3	3	0	0.53	1.1	0.57	-1.43	-1.51	4	4	0	2400	2400	0
7/14/2024 22:40	46206	DANV_T2	15	15	0	0.73	0.73	0	0	0	0	0	0	0	0	0
7/14/2024 22:40	52501	PROG_T1	6	106	100	0.2	0.17	-0.03	-0.58	-0.61	1	1	0	300	300	0
7/14/2024 22:40	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.41	-0.42	0	0	0	0	0	0
7/14/2024 22:40	51004	NHAR_T1	9	7	-2	1.08	2.33	1.25	-1.09	-1.14	0	0	0	0	0	0
7/14/2024 22:40	46204	DANV_T2	2	8	6	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/14/2024 22:40	42903	MIDD_T2	2	2	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
7/14/2024 22:40	43202	MVIL_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
7/14/2024 22:40	67602	WARW_T2	0	16	16	0	0.12	0.12	-0.48	-0.41	1	1	0	1200	1200	0
7/14/2024 22:41	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.41	-0.42	0	0	0	0	0	0
7/14/2024 22:41	42701	AUGU_T1	58	48	-10	0.86	0.48	-0.38	0	0	4	4	0	3600	3600	0
7/14/2024 22:41	47101	MARL_T1	44	31	-13	1.11	1.15	0.04	-0.8	-0.84	1	1	0	600	600	0
7/14/2024 22:41	46801	HEPB_T2	20	31	11	0.27	0.33	0.06	0.19	0.2	0	0	0	0	0	0
7/14/2024 22:41	11102	EGYP_T1	9	10	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
7/14/2024 22:41	27605	PIRI_T2	95	65	-30	0.91	0.79	-0.12	1.11	1.15	0	0	0	0	0	0
7/14/2024 22:41	67201	TEHI_T1	0	0	0	0	0	0	0.56	0.62	0	0	0	0	0	0
7/14/2024 22:41	56803	BENV_T1	5	4	-1	2.02	2.78	0.76	-0.11	-0.14	1	1	0	600	600	0
7/14/2024 22:41	49804	UNIV_T1	1	0	-1	0.3	0	-0.3	1.13	1.16	0	0	0	0	0	0
7/14/2024 22:41	55408	SHER_T2	1	1	0	1	1.2	0.2	-0.94	-0.94	1	1	0	1200	1200	0
7/14/2024 22:41	67605	WARW_T1	4	3	-1	1.17	0.97	-0.2	-0.95	-0.98	0	0	0	0	0	0
7/14/2024 22:41	46302	ROHR_T1	4	4	0	0.4	0.7	0.3	0.35	0.34	0	0	0	0	0	0
7/14/2024 22:41	12701	MACU_T1	0	0	0	0	0	0	-0.9	-0.92	1	1	0	1200	1200	0
7/14/2024 22:41	20403	ASHF_T2	1	0	-1	0.2	0	-0.2	-0.01	0.77	0	0	0	0	0	0
7/14/2024 22:41	46203	DANV_T2	0	1	1	0	0.1	0.1	-4.61	-4.67	0	0	0	0	0	0
7/14/2024 22:41	11104	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:41	46206	DANV_T2	15	15	0	0.73	0.73	0	0	0	0	0	0	0	0	0
7/14/2024 22:41	53901	HALI_T2	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
7/14/2024 22:41	55105	WERT_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/14/2024 22:41	46803	HEPB_T2	6	11	5	0.15	0.22	0.07	0	0	0	0	0	0	0	0
7/14/2024 22:41	46204	DANV_T2	2	8	6	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/14/2024 22:41	55002	NEWP_T1	2	3	1	0.1	0.57	0.47	0	0	0	0	0	0	0	0
7/14/2024 22:41	44801	EDAN_T2	1	1	0	0.9	0.9	0	-1.26	-1.29	0	0	0	0	0	0
7/14/2024 22:41	43304	WATS_T2	7	6	-1	0.53	0.18	-0.35	-1.33	-1.31	0	0	0	0	0	0
7/14/2024 22:41	20402	ASHF_T2	0	7	7	0	0.25	0.25	0	0	0	0	0	0	0	0
7/14/2024 22:41	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/14/2024 22:41	53902	HALI_T2	1	1	0	4.2	4.8	0.6	0	0	0	0	0	0	0	0
7/14/2024 22:41	45802	HEGI_T2	12	12	0	0.46	0.4	-0.06	-0.54	-0.32	1	1	0	900	900	0
7/14/2024 22:41	56801	BENV_T1	3	3	0	0.53	1.1	0.57	-1.43	-1.51	4	4	0	2400	2400	0
7/14/2024 22:41	13503	MCMI_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
7/14/2024 22:41	55101	WERT_T1	0	0	0	0	0	0	-2.34	-2.38	4	4	0	3300	3300	0
7/14/2024 22:42	14801	TREI_T2	188	162	-26	1.35	0.68	-0.67	0	0	0	0	0	0	0	0
7/14/2024 22:42	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:42	57401	SPAN_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	600	600	0
7/14/2024 22:42	47401	PENS_T1	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
7/14/2024 22:42	44301	BEAV_T2	5	3	-2	0.56	0	-0.56	-1.82	-1.85	2	2	0	1200	1200	0
7/14/2024 22:42	64204	KINZ_T1	1	1	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
7/14/2024 22:42	52002	LING_T2	0	0	0	0	0	0	-0.07	-0.12	0	0	0	0	0	0
7/14/2024 22:42	51401	LYKE_T1	0	0	0	0	0	0	0.48	0.51	0	0	0	0	0	0
7/14/2024 22:42	42903	MIDD_T2	2	2	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
7/14/2024 22:42	63304	GREE_T1	0	0	0	0	0	0	-2.48	-2.46	0	0	0	0	0	0
7/14/2024 22:42	64202	KINZ_T1	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
7/14/2024 22:42	45302	WBER_T2	0	0	0	0	0	0	1.4	1.39	0	0	0	0	0	0
7/14/2024 22:42	42901	MIDD_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/14/2024 22:42	46302	ROHR_T1	4	4	0	0.4	0.7	0.3	0.35	0.34	0	0	0	0	0	0
7/14/2024 22:42	67804	WLAN_T1	6	8	2	0.3	0.35	0.05	0	0	0	0	0	0	0	0
7/14/2024 22:42	15204	SFAR_T2	3	3	0	2.13	0.2	-1.93	0	0	0	0	0	0	0	0
7/14/2024 22:42	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/14/2024 22:42	49804	UNIV_T1	1	0	-1	0.3	0	-0.3	1.13	1.16	0	0	0	0	0	0
7/14/2024 22:42	67602	WARW_T2	0	16	16	0	0.12	0.12	-0.48	-0.41	1	1	0	1200	1200	0
7/14/2024 22:42	46203	DANV_T2	0	1	1	0	0.1	0.1	-2.31	-2.34	0	0	0	0	0	0
7/14/2024 22:42	51804	EBEN_T2	0	0	0	0	0	0	-0.91	-0.92	1	1	0	900	900	0
7/14/2024 22:42	64203	KINZ_T1	0	0	0	0	0	0	-0.15	-0.11	1	1	0	600	600	0
7/14/2024 22:42	46204	DANV_T2	2	8	6	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/14/2024 22:42	61701	ELIZ_T1	1	1	0	3.8	4.2	0.4	0	0	0	0	0	0	0	0
7/14/2024 22:42	61703	ELIZ_T1	0	0	0	0	0	0	-1.53	-1.54	1	1	0	900	900	0
7/14/2024 22:42	46206	DANV_T2	15	15	0	0.73	0.73	0	0	0	0	0	0	0	0	0
7/14/2024 22:42	51402	LYKE_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
7/14/2024 22:42	53902	HALI_T2	1	1	0	4.2	4.8	0.6	-0.7	-0.74	0	0	0	0	0	0
7/14/2024 22:42	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/14/2024 22:42	15203	SFAR_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/14/2024 22:42	67803	WLAN_T1	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
7/14/2024 22:42	64201	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/14/2024 22:42	47101	MARL_T1	44	31	-13	1.11	1.15	0.04	-0.8	-0.84	1	1	0	600	600	0
7/14/2024 22:42	42902	MIDD_T2	1	1	0	0.1	0	-0.1	-0.96	-0.97	1	1	0	600	600	0
7/14/2024 22:42	44801	EDAN_T2	1	1	0	0.9	0.9	0	-1.26	-1.29	0	0	0	0	0	0
7/14/2024 22:42	43304	WATS_T2	7	6	-1	0.53	0.18	-0.35	-0.66	-0.66	0	0	0	0	0	0
7/14/2024 22:43	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/14/2024 22:43	58001	WCAR_T1	0	1	1	0	0.1	0.1	-1	-1.05	0	0	0	0	0	0
7/14/2024 22:43	46206	DANV_T2	15	15	0	0.73	0.73	0	0	0	0	0	0	0	0	0
7/14/2024 22:43	46204	DANV_T2	2	8	6	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/14/2024 22:43	57401	SPAN_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	600	600	0
7/14/2024 22:43	22903	HARW_T1	24	25	1	1.82	1.35	-0.47	0	0	0	0	0	0	0	0
7/14/2024 22:43	55105	WERT_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/14/2024 22:43	66505	SMAN_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/14/2024 22:43	64802	MONE_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
7/14/2024 22:43	57702	PAXT_T1	10	0	-10	0.39	0	-0.39	-0.49	-0.49	0	0	0	0	0	0
7/14/2024 22:43	41901	REED_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
7/14/2024 22:43	41902	REED_T1	10	2	-8	0.45	0	-0.45	0.29	0.35	1	1	0	900	900	0
7/14/2024 22:43	43304	WATS_T2	7	6	-1	0.53	0.18	-0.35	-1.33	-1.31	0	0	0	0	0	0
7/14/2024 22:43	66701	STRA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/14/2024 22:43	66703	STRA_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
7/14/2024 22:43	46203	DANV_T2	0	1	1	0	0.1	0.1	-2.31	-2.34	0	0	0	0	0	0
7/14/2024 22:43	58003	WCAR_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/14/2024 22:43	22901	HARW_T1	0	1	1	0	0	0	-1.72	-1.67	1	1	0	1200	1200	0
7/14/2024 22:43	22905	HARW_T1	66	90	24	1.22	1.14	-0.08	0	0	0	0	0	0	0	0
7/14/2024 22:43	66504	SMAN_T2	0	4	4	0	0	0	-0.52	0.62	0	0	0	0	0	0
7/14/2024 22:43	55101	WERT_T1	0	0	0	0	0	0	-2.34	-2.38	4	4	0	3300	3300	0
7/14/2024 22:43	22904	HARW_T1	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/14/2024 22:44	58705	ROSE_T2	2	4	2	0.5	0.58	0.08	0	0	0	0	0	0	0	0
7/14/2024 22:44	41902	REED_T1	10	2	-8	0.45	0	-0.45	0.29	0.35	1	1	0	900	900	0
7/14/2024 22:44	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/14/2024 22:44	67605	WARW_T1	4	3	-1	1.17	0.97	-0.2	-0.95	-0.98	0	0	0	0	0	0
7/14/2024 22:44	41602	CLEV_T1	1	0	-1	0.9	0	-0.9	0	0	1	1	0	600	600	0
7/14/2024 22:44	65802	RTWN_T2	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
7/14/2024 22:44	52002	LING_T2	0	0	0	0	0	0	-0.07	-0.12	0	0	0	0	0	0
7/14/2024 22:44	40101	HUNT_T2	3	0	-3	0.57	0	-0.57	-2.25	-2.31	0	0	0	0	0	0
7/14/2024 22:44	41901	REED_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
7/14/2024 22:44	41903	REED_T1	0	0	0	0	0	0	-0.02	-0.06	1	1	0	1200	1200	0
7/14/2024 22:44	58706	ROSE_T2	2	1	-1	0.9	1.1	0.2	-0.06	-0.1	1	1	0	600	600	0
7/14/2024 22:44	47101	MARL_T1	44	31	-13	1.11	1.15	0.04	-0.8	-0.84	1	1	0	600	600	0
7/14/2024 22:45	47101	MARL_T1	28	40	12	1.19	1.06	-0.13	-0.8	-0.84	1	1	0	600	600	0
7/14/2024 22:45	67605	WARW_T1	3	3	0	0.97	0.93	-0.04	-0.95	-0.98	0	0	0	0	0	0
7/14/2024 22:46	42902	MIDD_T2	1	0	-1	0.3	0	-0.3	-0.96	-0.97	1	1	0	600	600	0
7/14/2024 22:46	42903	MIDD_T2	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
7/14/2024 22:46	66701	STRA_T1	2	2	0	0.55	0.1	-0.45	0.62	0.62	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/14/2024 22:46	58402	MORO_T1	0	0	0	0	0	0	-1.14	-0.62	4	3	-1	2850	2400	-450
7/14/2024 22:46	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/14/2024 22:46	41901	REED_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/14/2024 22:46	41902	REED_T1	0	2	2	0	0	0	0.29	0.35	1	1	0	900	900	0
7/14/2024 22:47	64305	LINC_T1	1	1	0	0.2	0.2	0	-0.09	-0.15	0	0	0	0	0	0
7/14/2024 22:59	47101	MARL_T1	28	40	12	1.19	1.06	-0.13	-0.84	-0.25	1	0	-1	600	0	-600
7/14/2024 23:04	64101	REFR_T1	0	0	0	0	0	0	-0.12	0.64	0	0	0	0	0	0
7/14/2024 23:05	67605	WARW_T1	3	3	0	0.93	0.37	-0.56	-0.98	-0.87	0	0	0	0	0	0
7/14/2024 23:06	67605	WARW_T1	3	3	0	0.93	0.37	-0.56	-0.98	-0.87	0	0	0	0	0	0
7/14/2024 23:07	64101	REFR_T1	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
7/14/2024 23:08	63804	HEMP_T1	1	1	0	6.3	6.8	0.5	0.37	0.31	0	0	0	0	0	0
7/14/2024 23:10	64101	REFR_T1	0	0	0	0	0	0	1.93	1.89	0	0	0	0	0	0
7/14/2024 23:11	64101	REFR_T1	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
7/14/2024 23:12	64101	REFR_T1	0	0	0	0	0	0	1.28	1.26	0	0	0	0	0	0
7/14/2024 23:13	64101	REFR_T1	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
7/14/2024 23:14	64101	REFR_T1	0	0	0	0	0	0	1.28	1.26	0	0	0	0	0	0
7/14/2024 23:30	64305	LINC_T1	1	1	0	0.2	0.2	0	-0.11	-0.13	0	0	0	0	0	0
7/14/2024 23:31	47101	MARL_T1	32	17	-15	1.12	0.88	-0.24	-0.3	-0.3	0	0	0	0	0	0
7/14/2024 23:31	64305	LINC_T1	1	1	0	0.2	0.2	0	-0.11	-0.13	0	0	0	0	0	0
7/14/2024 23:36	50502	MECH_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
7/14/2024 23:36	50501	MECH_T1	0	1	1	0	0.2	0.2	-1.67	-1.77	0	0	0	0	0	0
7/15/2024 0:37	64305	LINC_T1	1	1	0	0.9	0	-0.9	-0.23	-0.25	0	0	0	0	0	0
7/15/2024 0:38	64305	LINC_T1	1	1	0	0.9	0	-0.9	-0.23	-0.25	0	0	0	0	0	0
7/15/2024 2:14	64204	KINZ_T1	1	1	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
7/15/2024 2:14	64201	KINZ_T1	1	4	3	1.3	0.43	-0.87	0	0	0	0	0	0	0	0
7/15/2024 2:14	64203	KINZ_T1	0	0	0	0	0	0	0.12	0.05	1	1	0	600	600	0
7/15/2024 2:14	64202	KINZ_T1	2	3	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
7/15/2024 2:15	64204	KINZ_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
7/15/2024 2:15	64202	KINZ_T1	3	3	0	0.27	0.33	0.06	0	0	0	0	0	0	0	0
7/15/2024 2:15	64201	KINZ_T1	1	4	3	1.3	0.43	-0.87	0	0	0	0	0	0	0	0
7/15/2024 2:15	64203	KINZ_T1	0	0	0	0	0	0	0.12	0.05	1	1	0	600	600	0
7/15/2024 2:48	24902	WHHA_T1	1	0	-1	0.3	0	-0.3	0.87	0.89	0	0	0	0	0	0
7/15/2024 2:53	13105	NHAM_T2	0	0	0	0	0	0	-1.12	-1.18	1	1	0	1200	1200	0
7/15/2024 5:04	65901	SMIR_T2	1	1	0	7.4	7.3	-0.1	-0.9	-0.85	1	1	0	900	900	0
7/15/2024 6:45	61302	EARL_T1	2	2	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/15/2024 6:45	61306	EARL_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
7/15/2024 7:21	55102	WERT_T2	0	0	0	0	0	0	-0.86	-0.87	2	2	0	1200	1200	0
7/15/2024 7:23	56802	BENV_T2	0	0	0	0	0	0	-1.05	-1.04	0	0	0	0	0	0
7/15/2024 7:25	66505	SMAN_T2	0	1	1	0	0.1	0.1	0.3	0.5	4	4	0	2300	2300	0
7/15/2024 7:26	24902	WHHA_T1	1	2	1	0.3	0	-0.3	0.89	0.92	0	0	0	0	0	0
7/15/2024 7:28	66505	SMAN_T2	0	1	1	0	0.1	0.1	0.3	0.5	4	4	0	2300	2300	0
7/15/2024 7:31	64904	MILL_T1	0	0	0	0	0	0	0.11	0.03	0	0	0	0	0	0
7/15/2024 7:32	64902	MILL_T2	0	0	0	0	0	0	-0.83	-0.75	1	1	0	900	900	0
7/15/2024 7:35	64902	MILL_T2	0	0	0	0	0	0	-0.83	-0.75	1	1	0	900	900	0
7/15/2024 7:37	43304	WATS_T2	1	2	1	0.1	0	-0.1	-0.04	-0.01	0	0	0	0	0	0
7/15/2024 7:37	65603	QVIL_T2	0	0	0	0	0	0	0.91	0.67	0	0	0	0	0	0
7/15/2024 7:40	24902	WHHA_T1	2	1	-1	0.5	0	-0.5	0.92	0.89	0	0	0	0	0	0
7/15/2024 7:41	63305	GREE_T1	0	0	0	0	0	0	-1.42	-1.38	1	1	0	900	900	0
7/15/2024 7:42	63305	GREE_T1	0	0	0	0	0	0	-1.42	-1.38	1	1	0	900	900	0
7/15/2024 7:43	14404	SSLA_T1	2	2	0	2	2.95	0.95	0	0	0	0	0	0	0	0
7/15/2024 7:43	50107	HARR_T3	1	1	0	7.3	6.6	-0.7	0.87	0.89	0	0	0	0	0	0
7/15/2024 7:43	50201	HARR_T3	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/15/2024 7:43	14401	SSLA_T1	0	1	1	0	0.2	0.2	-1.05	-1.04	2	2	0	1800	1800	0
7/15/2024 7:43	50105	HARR_T3	6	6	0	6.42	5.82	-0.6	0	0	0	0	0	0	0	0
7/15/2024 7:45	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 7:45	13905	SEID_T1	0	0	0	0	0	0	-0.7	-0.69	1	1	0	1200	1200	0
7/15/2024 7:45	11205	ELHE_T1	0	0	0	0	0	0	-1.23	-0.96	1	1	0	1200	1200	0
7/15/2024 7:51	56501	ROCK_T2	1	1	0	0.3	0.1	-0.2	-1.55	-1.35	0	0	0	0	0	0
7/15/2024 7:52	56501	ROCK_T2	1	1	0	0.3	0.1	-0.2	-1.35	-1.44	0	0	0	0	0	0
7/15/2024 7:53	56501	ROCK_T2	1	1	0	0.3	0.1	-0.2	-1.35	-1.44	0	0	0	0	0	0
7/15/2024 8:00	46101	MACI_T2	0	0	0	0	0	0	-0.59	-0.55	2	2	0	2400	2400	0
7/15/2024 8:01	46101	MACI_T2	0	0	0	0	0	0	-0.59	-0.55	2	2	0	2400	2400	0
7/15/2024 8:05	65401	MARI_T1	0	1	1	0	0	0	0.27	0.26	0	0	0	0	0	0
7/15/2024 8:06	67505	WEWI_T1	0	0	0	0	0	0	0.44	0.4	1	1	0	900	900	0
7/15/2024 8:08	67505	WEWI_T1	0	0	0	0	0	0	0.44	0.4	1	1	0	900	900	0
7/15/2024 8:13	40101	HUNT_T2	9	65	56	0.23	0.47	0.24	-0.49	-0.32	0	0	0	0	0	0
7/15/2024 8:15	11103	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 8:15	11101	EGYP_T1	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
7/15/2024 8:18	52501	PROG_T1	1	1	0	0.2	0.3	0.1	-0.63	-0.59	1	1	0	300	300	0
7/15/2024 8:21	43202	MVIL_T2	1	5	4	0.1	0.22	0.12	-0.37	-0.36	0	0	0	0	0	0
7/15/2024 8:22	57002	WHHI_T2	0	0	0	0	0	0	-1.68	-1.68	1	1	0	1200	1200	0
7/15/2024 8:22	57006	WHHI_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/15/2024 8:22	67605	WARW_T1	2	1	-1	0.8	0.7	-0.1	-0.81	-0.76	0	0	0	0	0	0
7/15/2024 8:23	57403	SPAN_T1	2	0	-2	0.1	0	-0.1	0.21	0.31	0	0	0	0	0	0
7/15/2024 8:26	46206	DANV_T2	50	57	7	0.68	0.68	0	2.43	2.45	2	2	0	2100	2100	0
7/15/2024 8:27	52403	GRPA_T2	8	29	21	0.78	0.67	-0.11	0	0	0	0	0	0	0	0
7/15/2024 8:27	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 8:27	52404	GRPA_T2	0	8	8	0	0	0	0.97	0.99	0	0	0	0	0	0
7/15/2024 8:27	52402	GRPA_T2	1	2	1	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
7/15/2024 8:28	52404	GRPA_T2	0	8	8	0	0	0	0.97	0.99	0	0	0	0	0	0
7/15/2024 8:28	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 8:28	52403	GRPA_T2	8	29	21	0.78	0.67	-0.11	0	0	0	0	0	0	0	0
7/15/2024 8:28	52402	GRPA_T2	1	2	1	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
7/15/2024 8:31	20603	GRWO_T2	0	0	0	0	0	0	-0.35	-0.35	1	1	0	900	900	0
7/15/2024 8:31	20601	GRWO_T2	28	64	36	0.37	0.39	0.02	0	0	0	0	0	0	0	0
7/15/2024 8:37	58003	WCAR_T1	1	1	0	1.2	1.1	-0.1	0.37	0.39	1	1	0	600	600	0
7/15/2024 8:37	58001	WCAR_T1	2	4	2	0.25	0.48	0.23	0	0	0	0	0	0	0	0
7/15/2024 8:38	58001	WCAR_T1	2	4	2	0.25	0.48	0.23	0	0	0	0	0	0	0	0
7/15/2024 8:38	58003	WCAR_T1	1	1	0	1.2	1.1	-0.1	0.37	0.39	1	1	0	600	600	0
7/15/2024 8:40	56802	BENV_T2	1	1	0	0.3	0.1	-0.2	-1.71	-1.63	0	0	0	0	0	0
7/15/2024 8:40	59101	WALK_T2	1	2	1	2.1	2.2	0.1	1.76	1.86	1	1	0	600	600	0
7/15/2024 8:41	59101	WALK_T2	1	2	1	2.1	2.2	0.1	1.76	1.86	1	1	0	600	600	0
7/15/2024 8:41	56801	BENV_T1	10	6	-4	0.63	0.78	0.15	-0.44	-0.41	1	1	0	600	600	0
7/15/2024 8:41	56802	BENV_T2	1	1	0	0.3	0.1	-0.2	-0.86	-0.82	0	0	0	0	0	0
7/15/2024 8:41	56803	BENV_T1	1	6	5	2.1	2.1	0	0	0	0	0	0	0	0	0
7/15/2024 8:42	56802	BENV_T2	1	1	0	0.3	0.1	-0.2	-0.86	-0.82	0	0	0	0	0	0
7/15/2024 8:43	66502	SMAN_T2	0	0	0	0	0	0	-0.41	-0.33	1	1	0	900	900	0
7/15/2024 8:43	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 8:43	67605	WARW_T1	1	1	0	0.7	0.4	-0.3	-0.76	-0.7	0	0	0	0	0	0
7/15/2024 8:44	67605	WARW_T1	1	1	0	0.7	0.4	-0.3	-0.76	-0.7	0	0	0	0	0	0
7/15/2024 8:44	45802	HEGI_T2	23	134	111	0.42	0.31	-0.11	0.8	0.72	2	2	0	1200	1200	0
7/15/2024 8:45	46101	MACI_T2	0	0	0	0	0	0	-0.66	-0.68	2	2	0	2400	2400	0
7/15/2024 8:47	45802	HEGI_T2	134	58	-76	0.52	0.31	-0.21	0.8	0.72	2	2	0	1200	1200	0
7/15/2024 8:47	47401	PENS_T1	6	13	7	0.98	0.96	-0.02	0.55	0.63	0	0	0	0	0	0
7/15/2024 8:47	47403	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 8:48	47401	PENS_T1	6	13	7	0.98	0.96	-0.02	1.1	1.26	0	0	0	0	0	0
7/15/2024 8:48	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 8:48	66504	SMAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 8:48	66502	SMAN_T2	0	0	0	0	0	0	-0.41	-0.33	1	1	0	900	900	0
7/15/2024 8:48	47403	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 8:49	64101	REFR_T1	0	0	0	0	0	0	0.48	0.66	0	0	0	0	0	0
7/15/2024 8:49	47401	PENS_T1	6	13	7	0.98	0.96	-0.02	0.55	0.63	0	0	0	0	0	0
7/15/2024 8:49	47403	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 8:50	47401	PENS_T1	6	13	7	0.98	0.96	-0.02	0.55	0.63	0	0	0	0	0	0
7/15/2024 8:50	64101	REFR_T1	0	0	0	0	0	0	0.73	0.98	0	0	0	0	0	0
7/15/2024 8:50	47403	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 8:51	64101	REFR_T1	0	0	0	0	0	0	0.66	0.7	0	0	0	0	0	0
7/15/2024 8:53	64101	REFR_T1	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
7/15/2024 8:55	20402	ASHF_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 8:55	20401	ASHF_T2	1	4	3	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/15/2024 8:55	20403	ASHF_T2	0	3	3	0	0	0	1.97	1.82	0	0	0	0	0	0
7/15/2024 8:55	46206	DANV_T2	56	50	-6	0.89	0.51	-0.38	2.48	2.45	2	2	0	2100	2100	0
7/15/2024 8:57	20401	ASHF_T2	1	4	3	0.9	0.8	-0.1	0.37	0.44	0	0	0	0	0	0
7/15/2024 8:57	64101	REFR_T1	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
7/15/2024 8:57	21203	ECAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 8:57	20403	ASHF_T2	0	3	3	0	0	0	1.97	1.82	0	0	0	0	0	0
7/15/2024 8:57	20402	ASHF_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 8:58	52404	GRPA_T2	8	1	-7	0.14	0	-0.14	0	0	0	0	0	0	0	0
7/15/2024 8:58	15601	NSTR_T2	3	3	0	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
7/15/2024 8:58	15602	NSTR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 8:58	15603	NSTR_T2	0	1	1	0	0	0	-0.4	-0.43	0	0	0	0	0	0
7/15/2024 8:58	52403	GRPA_T2	19	55	36	0.79	0.74	-0.05	-0.03	-0.5	0	0	0	0	0	0
7/15/2024 8:58	52402	GRPA_T2	2	1	-1	0.55	0.8	0.25	0	0	0	0	0	0	0	0
7/15/2024 8:58	52401	GRPA_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/15/2024 9:00	41301	FISH_T1	3	3	0	1.63	1.87	0.24	0.08	0.08	0	0	0	0	0	0
7/15/2024 9:01	64903	MILL_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
7/15/2024 9:01	41301	FISH_T1	3	3	0	1.63	1.87	0.24	0.08	0.08	0	0	0	0	0	0
7/15/2024 9:01	64902	MILL_T2	0	0	0	0	0	0	-0.72	-0.71	1	1	0	900	900	0
7/15/2024 9:02	60501	NMAN_T2	3	3	0	3.5	3.77	0.27	0	0	0	0	0	0	0	0
7/15/2024 9:02	60502	NMAN_T2	0	0	0	0	0	0	0.5	0.54	0	0	0	0	0	0
7/15/2024 9:03	60501	NMAN_T2	3	3	0	3.5	3.77	0.27	0	0	0	0	0	0	0	0
7/15/2024 9:03	60502	NMAN_T2	0	0	0	0	0	0	0.5	0.54	0	0	0	0	0	0
7/15/2024 9:05	41901	REED_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/15/2024 9:05	43202	MVIL_T2	1	1	0	0.4	0.4	0	-0.35	-0.31	0	0	0	0	0	0
7/15/2024 9:05	41902	REED_T1	0	1	1	0	0	0	0.6	0.54	1	1	0	900	900	0
7/15/2024 9:05	41903	REED_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/15/2024 9:06	41903	REED_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/15/2024 9:06	41901	REED_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/15/2024 9:06	41902	REED_T1	0	1	1	0	0	0	0.6	0.54	1	1	0	900	900	0
7/15/2024 9:06	43202	MVIL_T2	1	1	0	0.4	0.4	0	-0.31	-0.33	0	0	0	0	0	0
7/15/2024 9:07	55101	WERT_T1	0	3	3	0	0.1	0.1	-1.7	-1.72	4	4	0	3300	3300	0
7/15/2024 9:08	56801	BENV_T1	5	5	0	0.66	0.48	-0.18	-0.35	-0.31	1	1	0	600	600	0
7/15/2024 9:08	56803	BENV_T1	5	4	-1	1.76	0.7	-1.06	0	0	0	0	0	0	0	0
7/15/2024 9:09	56801	BENV_T1	5	5	0	0.66	0.48	-0.18	-0.71	-0.63	2	2	0	1200	1200	0
7/15/2024 9:09	56803	BENV_T1	5	4	-1	1.76	0.7	-1.06	0	0	0	0	0	0	0	0
7/15/2024 9:09	55101	WERT_T1	0	3	3	0	0.1	0.1	-3.39	-3.43	8	8	0	6600	6600	0
7/15/2024 9:10	56803	BENV_T1	5	4	-1	1.76	0.7	-1.06	0	0	0	0	0	0	0	0
7/15/2024 9:10	56801	BENV_T1	5	5	0	0.66	0.48	-0.18	-0.71	-0.63	2	2	0	1200	1200	0
7/15/2024 9:11	60201	ATGL_T2	0	0	0	0	0	0	0.29	0.43	2	2	0	900	900	0
7/15/2024 9:11	56803	BENV_T1	5	4	-1	1.76	0.7	-1.06	0.4	0.41	1	1	0	600	600	0
7/15/2024 9:11	56801	BENV_T1	5	5	0	0.66	0.48	-0.18	-0.71	-0.63	2	2	0	1200	1200	0
7/15/2024 9:12	56803	BENV_T1	5	4	-1	1.76	0.7	-1.06	0	0	0	0	0	0	0	0
7/15/2024 9:12	56801	BENV_T1	5	5	0	0.66	0.48	-0.18	-0.35	-0.31	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/15/2024 9:12	55101	WERT_T1	0	3	3	0	0.1	0.1	-1.7	-1.72	4	4	0	3300	3300	0
7/15/2024 9:13	56803	BENV_T1	5	4	-1	1.76	0.7	-1.06	0	0	0	0	0	0	0	0
7/15/2024 9:13	56801	BENV_T1	5	5	0	0.66	0.48	-0.18	-0.35	-0.31	1	1	0	600	600	0
7/15/2024 9:14	20603	GRWO_T2	0	1	1	0	0.1	0.1	-0.26	-0.27	1	1	0	900	900	0
7/15/2024 9:14	47001	HUGH_T2	3	3	0	8.4	8.57	0.17	-1.11	-0.99	1	1	0	900	900	0
7/15/2024 9:14	20601	GRWO_T2	33	47	14	0.39	0.41	0.02	0	0	0	0	0	0	0	0
7/15/2024 9:15	47001	HUGH_T2	3	3	0	8.57	8.27	-0.3	-1.11	-0.99	1	1	0	900	900	0
7/15/2024 9:18	47401	PENS_T1	10	30	20	0.79	0.47	-0.32	1.42	0.68	0	0	0	0	0	0
7/15/2024 9:18	47403	PENS_T1	1	3	2	0.2	1	0.8	0	0	0	0	0	0	0	0
7/15/2024 9:21	47403	PENS_T1	1	3	2	0.2	1	0.8	0	0	0	0	0	0	0	0
7/15/2024 9:21	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.62	-0.76	0	0	0	0	0	0
7/15/2024 9:21	47401	PENS_T1	10	30	20	0.79	0.47	-0.32	0.34	0.39	0	0	0	0	0	0
7/15/2024 9:23	61102	BERK_T5	0	0	0	0	0	0	0.59	0.52	1	1	0	300	300	0
7/15/2024 9:24	61102	BERK_T5	0	0	0	0	0	0	1.76	1.57	3	3	0	900	900	0
7/15/2024 9:25	20401	ASHF_T2	4	5	1	0.85	1.22	0.37	0	0	0	0	0	0	0	0
7/15/2024 9:25	61102	BERK_T5	0	0	0	0	0	0	0.59	0.52	1	1	0	300	300	0
7/15/2024 9:25	20402	ASHF_T2	6	8	2	0.42	0.93	0.51	0	0	0	0	0	0	0	0
7/15/2024 9:25	20403	ASHF_T2	1	15	14	0.2	0.4	0.2	1.8	1.9	0	0	0	0	0	0
7/15/2024 9:26	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.62	-0.76	0	0	0	0	0	0
7/15/2024 9:26	20402	ASHF_T2	6	8	2	0.42	0.93	0.51	0	0	0	0	0	0	0	0
7/15/2024 9:26	20403	ASHF_T2	1	15	14	0.2	0.4	0.2	1.8	1.9	0	0	0	0	0	0
7/15/2024 9:26	20401	ASHF_T2	4	5	1	0.85	1.22	0.37	0	0	0	0	0	0	0	0
7/15/2024 9:27	11104	EGYP_T1	0	0	0	0	0	0	2.23	2.28	0	0	0	0	0	0
7/15/2024 9:27	11102	EGYP_T1	1	3	2	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/15/2024 9:27	61102	BERK_T5	0	0	0	0	0	0	0.59	0.52	1	1	0	300	300	0
7/15/2024 9:27	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.62	-0.76	0	0	0	0	0	0
7/15/2024 9:27	11101	EGYP_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
7/15/2024 9:29	61102	BERK_T5	0	0	0	0	0	0	0.59	0.52	1	1	0	300	300	0
7/15/2024 9:30	52002	LING_T2	4	0	-4	0.13	0	-0.13	0.74	-0.02	0	0	0	0	0	0
7/15/2024 9:31	52002	LING_T2	4	0	-4	0.13	0	-0.13	0.74	-0.02	0	0	0	0	0	0
7/15/2024 9:32	13503	MCMI_T2	2	8	6	0.5	0.36	-0.14	-1.34	-1.34	0	0	0	0	0	0
7/15/2024 9:33	13503	MCMI_T2	2	8	6	0.5	0.36	-0.14	-0.67	-0.67	0	0	0	0	0	0
7/15/2024 9:35	13303	ORVI_T1	0	0	0	0	0	0	0.32	0.39	0	0	0	0	0	0
7/15/2024 9:36	12801	MICK_T1	0	0	0	0	0	0	-0.2	-0.09	1	1	0	600	600	0
7/15/2024 9:37	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.76	-0.72	0	0	0	0	0	0
7/15/2024 9:38	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.76	-0.72	0	0	0	0	0	0
7/15/2024 9:39	64101	REFR_T1	0	6	6	0	0.43	0.43	0.43	0.43	0	0	0	0	0	0
7/15/2024 9:42	29402	BELT_T1	1	2	1	9	4.55	-4.45	0	0	0	0	0	0	0	0
7/15/2024 9:42	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 9:44	41602	CLEV_T1	2	2	0	0.25	0.3	0.05	0	0	1	1	0	600	600	0
7/15/2024 9:45	64201	KINZ_T1	0	2	2	0	0	0	-0.18	-0.12	4	4	0	2100	2100	0
7/15/2024 9:45	64204	KINZ_T1	1	3	2	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/15/2024 9:45	64202	KINZ_T1	1	2	1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
7/15/2024 9:45	64203	KINZ_T1	2	8	6	1.35	0.66	-0.69	0	0	0	0	0	0	0	0
7/15/2024 9:45	23401	HONE_T2	1	0	-1	0.1	0	-0.1	0	-0.06	0	0	0	0	0	0
7/15/2024 9:46	47101	MARL_T1	3	1	-2	0.37	0	-0.37	-0.02	-1.73	0	3	3	0	1800	1800
7/15/2024 9:47	41304	FISH_T2	1	1	0	0	0	0	-0.06	-0.01	0	0	0	0	0	0
7/15/2024 9:47	41302	FISH_T2	15	17	2	2.29	2.57	0.28	0	0	0	0	0	0	0	0
7/15/2024 9:48	41302	FISH_T2	15	17	2	2.29	2.57	0.28	0	0	0	0	0	0	0	0
7/15/2024 9:48	41304	FISH_T2	1	1	0	0	0	0	-0.25	-0.04	0	0	0	0	0	0
7/15/2024 9:49	47101	MARL_T1	3	1	-2	0.37	0	-0.37	-0.01	-0.58	0	1	1	0	600	600
7/15/2024 9:49	41302	FISH_T2	15	17	2	2.29	2.57	0.28	0	0	0	0	0	0	0	0
7/15/2024 9:49	41304	FISH_T2	1	1	0	0	0	0	-0.06	-0.01	0	0	0	0	0	0
7/15/2024 9:51	41302	FISH_T2	15	17	2	2.29	2.57	0.28	0	0	0	0	0	0	0	0
7/15/2024 9:51	41304	FISH_T2	1	1	0	0	0	0	-0.06	-0.01	0	0	0	0	0	0
7/15/2024 9:53	55101	WERT_T1	6	17	11	0.33	0.18	-0.15	-1.55	-1.4	4	4	0	3300	3300	0
7/15/2024 9:53	59101	WALK_T2	0	1	1	0	0	0	1.68	1.44	1	2	1	600	1200	600
7/15/2024 9:53	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 9:55	24902	WHHA_T1	7	14	7	0.59	0.68	0.09	1	0.99	0	0	0	0	0	0
7/15/2024 9:56	46205	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 9:56	44301	BEAV_T2	22	34	12	0.5	0.43	-0.07	0.6	0.31	2	2	0	1500	1500	0
7/15/2024 9:56	46203	DANV_T2	0	1	1	0	0.4	0.4	-1.79	-1.62	0	0	0	0	0	0
7/15/2024 9:56	46206	DANV_T2	53	101	48	0.82	0.91	0.09	0	0	0	0	0	0	0	0
7/15/2024 9:56	46204	DANV_T2	0	35	35	0	0.41	0.41	0	0	0	0	0	0	0	0
7/15/2024 9:57	61703	ELIZ_T1	0	3	3	0	0.3	0.3	-1.17	-0.16	1	0	-1	900	0	-900
7/15/2024 9:57	61701	ELIZ_T1	2	2	0	2.5	2.85	0.35	0	0	0	0	0	0	0	0
7/15/2024 9:58	46205	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 9:58	46206	DANV_T2	53	101	48	0.82	0.91	0.09	0	0	0	0	0	0	0	0
7/15/2024 9:58	46204	DANV_T2	0	35	35	0	0.41	0.41	0	0	0	0	0	0	0	0
7/15/2024 9:58	46203	DANV_T2	0	1	1	0	0.4	0.4	-0.89	-0.81	0	0	0	0	0	0
7/15/2024 10:00	64101	REFR_T1	6	11	5	0.55	1.82	1.27	0.43	0.48	0	0	0	0	0	0
7/15/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	0.37	0.42	0	0	0	0	0	0
7/15/2024 10:00	40504	CRES_T1	6	13	7	0.18	0.34	0.16	0	0	0	0	0	0	0	0
7/15/2024 10:00	28102	TWLA_T2	0	1	1	0	0	0	0.33	0.34	0	0	0	0	0	0
7/15/2024 10:00	67503	WEWI_T2	0	1	1	0	0	0	0.58	0.64	0	0	0	0	0	0
7/15/2024 10:00	60501	NMAN_T2	3	3	0	3.57	3.1	-0.47	0	0	0	0	0	0	0	0
7/15/2024 10:00	66901	SHIL_T2	0	0	0	0	0	0	-0.61	-0.58	1	1	0	1200	1200	0
7/15/2024 10:00	41902	REED_T1	3	24	21	0.43	0.44	0.01	0.65	0.69	1	1	0	900	900	0
7/15/2024 10:00	41903	REED_T1	4	4	0	0.35	1	0.65	0	0	0	0	0	0	0	0
7/15/2024 10:00	40505	CRES_T1	3	3	0	1.53	1.6	0.07	0.87	0.85	0	0	0	0	0	0
7/15/2024 10:00	13503	MCMI_T2	5	10	5	0.44	0.4	-0.04	-0.64	-0.61	0	0	0	0	0	0
7/15/2024 10:00	57403	SPAN_T1	0	0	0	0	0	0	0	0.46	0	0	0	0	0	0
7/15/2024 10:06	13303	ORVI_T1	0	0	0	0	0	0	0.47	0.5	0	0	0	0	0	0
7/15/2024 10:08	61101	BERK_T5	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 10:08	20402	ASHF_T2	7	8	1	1.69	1.27	-0.42	0	0	0	0	0	0	0	0
7/15/2024 10:08	67804	WLAN_T1	10	10	0	0.58	0.69	0.11	0	0	0	0	0	0	0	0
7/15/2024 10:08	44601	SALE_T2	0	0	0	0	0	0	1.05	1.17	2	2	0	1200	1200	0
7/15/2024 10:08	56803	BENV_T1	3	7	4	1.13	1.05	-0.08	0	0	0	0	0	0	0	0
7/15/2024 10:08	64101	REFR_T1	6	11	5	0.55	1.82	1.27	0.96	1.11	0	0	0	0	0	0
7/15/2024 10:08	56801	BENV_T1	7	1	-6	0.41	0.4	-0.01	-0.17	-0.19	1	1	0	600	600	0
7/15/2024 10:08	67804	WLAN_T1	0	3	3	0	0	0	0.35	0.4	0	0	0	0	0	0
7/15/2024 10:08	41903	REED_T1	4	4	0	0.35	1	0.65	0	0	0	0	0	0	0	0
7/15/2024 10:08	20401	ASHF_T2	2	6	4	1.15	1.3	0.15	0	0	0	0	0	0	0	0
7/15/2024 10:08	20403	ASHF_T2	0	2	2	0	0	0	1.76	1.92	0	0	0	0	0	0
7/15/2024 10:08	61102	BERK_T5	0	0	0	0	0	0	0.67	0.56	1	1	0	300	300	0
7/15/2024 10:08	41902	REED_T1	3	24	21	0.43	0.44	0.01	0.69	0.64	1	1	0	900	900	0
7/15/2024 10:09	61102	BERK_T5	0	0	0	0	0	0	0.67	0.56	1	1	0	300	300	0
7/15/2024 10:09	24902	WHHA_T1	6	40	34	0.7	0.48	-0.22	0.99	0.99	0	0	0	0	0	0
7/15/2024 10:09	61101	BERK_T5	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 10:09	64101	REFR_T1	6	11	5	0.55	1.82	1.27	1.44	1.66	0	0	0	0	0	0
7/15/2024 10:09	56803	BENV_T1	3	7	4	1.13	1.05	-0.08	0.47	0.55	1	1	0	600	600	0
7/15/2024 10:09	56801	BENV_T1	7	1	-6	0.41	0.4	-0.01	-0.17	-0.19	1	1	0	600	600	0
7/15/2024 10:10	20403	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 10:10	21201	ECAR_T1	1	5	4	0.1	0.85	0.75	0	0	0	0	0	0	0	0
7/15/2024 10:10	61102	BERK_T5	0	0	0	0	0	0	1.34	1.11	2	2	0	600	600	0
7/15/2024 10:10	56802	BENV_T2	0	0	0	0	0	0	-1.88	-1.91	0	0	0	0	0	0
7/15/2024 10:10	56801	BENV_T1	7	1	-6	0.41	0.4	-0.01	-0.33	-0.39	2	2	0	1200	1200	0
7/15/2024 10:10	20402	ASHF_T2	7	8	1	1.69	1.27	-0.42	0	0	0	0	0	0	0	0
7/15/2024 10:10	21203	ECAR_T1	0	0	0	0	0	0	0.06	0.09	0	0	0	0	0	0
7/15/2024 10:10	56803	BENV_T1	3	7	4	1.13	1.05	-0.08	0	0	0	0	0	0	0	0
7/15/2024 10:10	61101	BERK_T5	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 10:10	64101	REFR_T1	6	11	5	0.55	1.82	1.27	1.44	1.66	0	0	0	0	0	0
7/15/2024 10:10	20401	ASHF_T2	2	6	4	1.15	1.3	0.15	0.59	0.61	0	0	0	0	0	0
7/15/2024 10:11	61101	BERK_T5	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 10:11	56803	BENV_T1	3	7	4	1.13	1.05	-0.08	0	0	0	0	0	0	0	0
7/15/2024 10:11	20402	ASHF_T2	7	8	1	1.69	1.27	-0.42	0	0	0	0	0	0	0	0
7/15/2024 10:11	20401	ASHF_T2	2	6	4	1.15	1.3	0.15	0	0	0	0	0	0	0	0
7/15/2024 10:11	24902	WHHA_T1	6	40	34	0.7	0.48	-0.22	0.99	0.99	0	0	0	0	0	0
7/15/2024 10:11	20403	ASHF_T2	0	2	2	0	0	0	0.88	0.96	0	0	0	0	0	0
7/15/2024 10:11	61102	BERK_T5	0	0	0	0	0	0	2.02	1.67	3	3	0	900	900	0
7/15/2024 10:11	56801	BENV_T1	7	1	-6	0.41	0.4	-0.01	-0.5	-0.58	3	3	0	1800	1800	0
7/15/2024 10:11	56802	BENV_T2	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
7/15/2024 10:12	20403	ASHF_T2	0	2	2	0	0	0	0.88	0.96	0	0	0	0	0	0
7/15/2024 10:12	20401	ASHF_T2	2	6	4	1.15	1.3	0.15	0	0	0	0	0	0	0	0
7/15/2024 10:12	20402	ASHF_T2	7	8	1	1.69	1.27	-0.42	0	0	0	0	0	0	0	0
7/15/2024 10:12	56801	BENV_T1	7	1	-6	0.41	0.4	-0.01	-0.5	-0.58	3	3	0	1800	1800	0
7/15/2024 10:12	56803	BENV_T1	3	7	4	1.13	1.05	-0.08	0	0	0	0	0	0	0	0
7/15/2024 10:13	61102	BERK_T5	0	0	0	0	0	0	0.67	0.56	1	1	0	300	300	0
7/15/2024 10:13	61101	BERK_T5	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 10:14	11104	EGYP_T1	1	13	12	0.1	1.33	1.23	1.76	1.78	0	0	0	0	0	0
7/15/2024 10:14	40101	HUNT_T2	144	241	97	0.5	0.63	0.13	-0.06	-0.16	0	0	0	0	0	0
7/15/2024 10:14	11101	EGYP_T1	4	5	1	0.9	1.63	0.73	0	0	0	0	0	0	0	0
7/15/2024 10:14	11102	EGYP_T1	3	11	8	0.93	1.7	0.77	0	0	0	0	0	0	0	0
7/15/2024 10:14	29402	BELT_T1	2	1	-1	4.4	8.3	3.9	0	0	0	0	0	0	0	0
7/15/2024 10:14	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 10:15	45802	HEGI_T2	17	8	-9	0.34	0.3	-0.04	0.66	0.62	2	2	0	1200	1200	0
7/15/2024 10:15	56802	BENV_T2	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
7/15/2024 10:16	20603	GRWO_T2	0	0	0	0	0	0	-0.21	-0.21	1	1	0	900	900	0
7/15/2024 10:16	20601	GRWO_T2	44	123	79	0.44	0.69	0.25	0	0	0	0	0	0	0	0
7/15/2024 10:17	64202	KINZ_T1	2	2	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/15/2024 10:17	64204	KINZ_T1	3	2	-1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/15/2024 10:17	64201	KINZ_T1	2	8	6	0.1	0	-0.1	0.11	-0.01	4	4	0	2100	2100	0
7/15/2024 10:17	64203	KINZ_T1	8	7	-1	0.79	1.03	0.24	0	0	0	0	0	0	0	0
7/15/2024 10:18	45802	HEGI_T2	17	8	-9	0.34	0.3	-0.04	0.66	0.62	2	2	0	1200	1200	0
7/15/2024 10:19	25501	MADI_T1	1	2	1	2.3	0.4	-1.9	0	0	0	0	0	0	0	0
7/15/2024 10:19	13503	MCMI_T2	10	3	-7	0.4	0.5	0.1	-1.21	-1.16	0	0	0	0	0	0
7/15/2024 10:19	56501	ROCK_T2	1	0	-1	1.6	0.4	-1.2	-1.06	-2.25	0	0	0	0	0	0
7/15/2024 10:19	25503	MADI_T1	0	2	2	0	0.3	0.3	-0.52	-0.51	0	0	0	0	0	0
7/15/2024 10:19	56504	ROCK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/15/2024 10:20	56501	ROCK_T2	1	1	0	1.6	0.4	-1.2	-2.11	-4.5	0	0	0	0	0	0
7/15/2024 10:20	56504	ROCK_T2	1	0	-1	0.3	0	-0.3	0.35	0.44	0	0	0	0	0	0
7/15/2024 10:21	43302	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 10:21	43304	WATS_T2	1	5	4	0.3	0.1	-0.2	-0.34	-0.3	1	1	0	600	600	0
7/15/2024 10:21	56501	ROCK_T2	1	1	0	1.6	0.4	-1.2	0	0	0	0	0	0	0	0
7/15/2024 10:21	56504	ROCK_T2	1	0	-1	0.3	0	-0.3	0.35	0.44	0	0	0	0	0	0
7/15/2024 10:22	55101	WERT_T1	17	29	12	0.56	0.78	0.22	-1.43	-1.3	4	4	0	3300	3300	0
7/15/2024 10:22	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 10:22	56504	ROCK_T2	1	0	-1	0.3	0	-0.3	0.44	0.46	0	0	0	0	0	0
7/15/2024 10:22	56501	ROCK_T2	1	1	0	1.6	0.4	-1.2	-2.25	-2.21	0	0	0	0	0	0
7/15/2024 10:23	67605	WARW_T1	0	2	2	0	0.65	0.65	-0.68	-0.62	0	0	0	0	0	0
7/15/2024 10:23	56504	ROCK_T2	1	0	-1	0.3	0	-0.3	0.44	0.46	0	0	0	0	0	0
7/15/2024 10:23	56501	ROCK_T2	1	1	0	1.6	0.4	-1.2	-2.25	-2.21	0	0	0	0	0	0
7/15/2024 10:24	56501	ROCK_T2	1	1	0	1.6	0.4	-1.2	-2.25	-2.21	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/15/2024 10:24	56504	ROCK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/15/2024 10:24	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 10:24	55101	WERT_T1	17	29	12	0.56	0.78	0.22	-1.43	-1.3	4	4	0	3300	3300	0
7/15/2024 10:25	46206	DANV_T2	97	117	20	0.97	0.83	-0.14	0	0	0	0	0	0	0	0
7/15/2024 10:25	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 10:25	67605	WARW_T1	0	2	2	0	0.65	0.65	-0.68	-0.62	0	0	0	0	0	0
7/15/2024 10:25	56501	ROCK_T2	1	1	0	1.6	0.4	-1.2	0	0	0	0	0	0	0	0
7/15/2024 10:25	46204	DANV_T2	30	35	5	0.53	0.6	0.07	0	0	0	0	0	0	0	0
7/15/2024 10:25	43304	WATS_T2	1	5	4	0.3	0.1	-0.2	-0.34	-0.3	1	1	0	600	600	0
7/15/2024 10:25	55101	WERT_T1	17	29	12	0.56	0.78	0.22	-2.87	-2.59	8	8	0	6600	6600	0
7/15/2024 10:25	43302	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 10:25	56504	ROCK_T2	1	0	-1	0.3	0	-0.3	0.88	0.93	0	0	0	0	0	0
7/15/2024 10:25	46203	DANV_T2	1	2	1	0.4	0.2	-0.2	-0.78	-0.73	0	0	0	0	0	0
7/15/2024 10:26	56801	BENV_T1	0	3	3	0	0.67	0.67	0	0	0	0	0	0	0	0
7/15/2024 10:26	55101	WERT_T1	17	29	12	0.56	0.78	0.22	-2.87	-2.59	8	8	0	6600	6600	0
7/15/2024 10:26	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 10:26	56803	BENV_T1	6	9	3	1.05	1.07	0.02	1.1	0.93	2	2	0	1200	1200	0
7/15/2024 10:27	46204	DANV_T2	30	35	5	0.53	0.6	0.07	0	0	0	0	0	0	0	0
7/15/2024 10:27	46203	DANV_T2	1	2	1	0.4	0.2	-0.2	-0.78	-0.73	0	0	0	0	0	0
7/15/2024 10:27	46206	DANV_T2	97	117	20	0.97	0.83	-0.14	2.53	2.66	2	2	0	2100	2100	0
7/15/2024 10:28	52404	GRPA_T2	0	0	0	0	0	0	0.51	0.42	0	0	0	0	0	0
7/15/2024 10:28	52403	GRPA_T2	74	87	13	0.82	0.59	-0.23	0	0	0	0	0	0	0	0
7/15/2024 10:28	52402	GRPA_T2	2	8	6	0.45	0.8	0.35	-0.63	-0.59	0	0	0	0	0	0
7/15/2024 10:28	52401	GRPA_T2	2	31	29	0.2	0.38	0.18	0	0	0	0	0	0	0	0
7/15/2024 10:28	46206	DANV_T2	97	117	20	0.97	0.83	-0.14	0	0	0	0	0	0	0	0
7/15/2024 10:28	46204	DANV_T2	30	35	5	0.53	0.6	0.07	0	0	0	0	0	0	0	0
7/15/2024 10:28	46203	DANV_T2	1	2	1	0.4	0.2	-0.2	-1.57	-1.47	0	0	0	0	0	0
7/15/2024 10:28	20601	GRWO_T2	44	123	79	0.44	0.69	0.25	1.47	1.39	0	0	0	0	0	0
7/15/2024 10:29	52401	GRPA_T2	2	31	29	0.2	0.38	0.18	0	0	0	0	0	0	0	0
7/15/2024 10:29	52403	GRPA_T2	74	87	13	0.82	0.59	-0.23	0	0	0	0	0	0	0	0
7/15/2024 10:29	52404	GRPA_T2	0	0	0	0	0	0	0.51	0.42	0	0	0	0	0	0
7/15/2024 10:29	52402	GRPA_T2	2	8	6	0.45	0.8	0.35	-1.25	-1.17	0	0	0	0	0	0
7/15/2024 10:30	52403	GRPA_T2	75	83	8	0.59	0.74	0.15	0	0	0	0	0	0	0	0
7/15/2024 10:30	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 10:30	46206	DANV_T2	101	125	24	0.85	1.06	0.21	2.53	2.66	2	2	0	2100	2100	0
7/15/2024 10:30	46205	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 10:30	46204	DANV_T2	22	76	54	0.56	0.68	0.12	0	0	0	0	0	0	0	0
7/15/2024 10:30	52401	GRPA_T2	18	31	13	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
7/15/2024 10:30	46203	DANV_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/15/2024 10:30	52402	GRPA_T2	4	7	3	0.5	0.56	0.06	-0.63	-0.59	0	0	0	0	0	0
7/15/2024 10:31	12301	LANA_T2	0	0	0	0	0	0	-0.8	-0.78	0	0	0	0	0	0
7/15/2024 10:31	12302	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 10:31	12305	LANA_T2	4	9	5	0.73	0.35	-0.38	0	0	0	0	0	0	0	0
7/15/2024 10:31	12304	LANA_T2	1	6	5	0.9	1	0.1	0	0	0	0	0	0	0	0
7/15/2024 10:32	47403	PENS_T1	1	1	0	1.3	2.2	0.9	0	0	0	0	0	0	0	0
7/15/2024 10:32	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/15/2024 10:32	47401	PENS_T1	24	21	-3	0.65	0.52	-0.13	0.46	0.51	0	0	0	0	0	0
7/15/2024 10:32	23401	HONE_T2	1	8	7	0.1	0.3	0.2	-0.01	-0.01	0	0	0	0	0	0
7/15/2024 10:33	52401	GRPA_T2	18	31	13	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
7/15/2024 10:33	52403	GRPA_T2	75	83	8	0.59	0.74	0.15	0	0	0	0	0	0	0	0
7/15/2024 10:33	53502	EVIL_T2	11	20	9	0.74	0.87	0.13	0	0	0	0	0	0	0	0
7/15/2024 10:33	53501	EVIL_T2	6	5	-1	0.52	0.6	0.08	-0.5	-0.46	2	2	0	1200	1200	0
7/15/2024 10:33	52404	GRPA_T2	0	1	1	0	0	0	0.51	0.42	0	0	0	0	0	0
7/15/2024 10:33	52402	GRPA_T2	4	7	3	0.5	0.56	0.06	0	0	0	0	0	0	0	0
7/15/2024 10:34	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/15/2024 10:34	47403	PENS_T1	1	1	0	1.3	2.2	0.9	0	0	0	0	0	0	0	0
7/15/2024 10:34	47401	PENS_T1	24	21	-3	0.65	0.52	-0.13	0.46	0.51	0	0	0	0	0	0
7/15/2024 10:35	47403	PENS_T1	1	1	0	1.3	2.2	0.9	0	0	0	0	0	0	0	0
7/15/2024 10:35	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/15/2024 10:35	47401	PENS_T1	24	21	-3	0.65	0.52	-0.13	0.92	1.02	0	0	0	0	0	0
7/15/2024 10:36	47401	PENS_T1	24	21	-3	0.65	0.52	-0.13	1.02	0.9	0	0	0	0	0	0
7/15/2024 10:36	48301	ORWI_T1	62	169	107	0.39	0.32	-0.07	1.31	1.34	0	0	0	0	0	0
7/15/2024 10:36	47403	PENS_T1	1	1	0	1.3	2.2	0.9	0	0	0	0	0	0	0	0
7/15/2024 10:36	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/15/2024 10:37	67605	WARW_T1	1	2	1	0.6	0.65	0.05	-0.62	-0.55	0	0	0	0	0	0
7/15/2024 10:38	67603	WARW_T1	0	0	0	0	0	0	-0.08	-0.05	0	0	0	0	0	0
7/15/2024 10:38	67605	WARW_T1	1	2	1	0.6	0.65	0.05	0	0	0	0	0	0	0	0
7/15/2024 10:38	55101	WERT_T1	19	33	14	0.81	0.55	-0.26	-1.3	-1.43	4	4	0	3300	3300	0
7/15/2024 10:38	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 10:38	64101	REFR_T1	11	11	0	1.7	1.2	-0.5	0.58	0.02	0	0	0	0	0	0
7/15/2024 10:38	61102	BERK_T5	0	0	0	0	0	0	0.66	0.67	1	1	0	300	300	0
7/15/2024 10:39	24902	WHHA_T1	40	9	-31	0.38	0.5	0.12	0.99	0.51	0	0	0	0	0	0
7/15/2024 10:39	56803	BENV_T1	7	9	2	1.46	2.17	0.71	0	0	0	0	0	0	0	0
7/15/2024 10:39	56801	BENV_T1	1	3	2	0.4	0.67	0.27	-0.38	-0.23	2	2	0	1200	1200	0
7/15/2024 10:39	55408	SHER_T2	1	2	1	1.3	0.7	-0.6	-0.94	-0.94	1	1	0	1200	1200	0
7/15/2024 10:40	67605	WARW_T1	1	2	1	0.6	0.65	0.05	-0.62	-0.55	0	0	0	0	0	0
7/15/2024 10:40	56801	BENV_T1	1	3	2	0.4	0.67	0.27	-0.19	-0.12	1	1	0	600	600	0
7/15/2024 10:40	56803	BENV_T1	7	9	2	1.46	2.17	0.71	0	0	0	0	0	0	0	0
7/15/2024 10:41	55101	WERT_T1	19	33	14	0.81	0.55	-0.26	-2.59	-2.85	8	8	0	6600	6600	0
7/15/2024 10:41	67605	WARW_T1	1	2	1	0.6	0.65	0.05	-1.24	-1.11	0	0	0	0	0	0
7/15/2024 10:41	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 10:42	67805	WLAN_T1	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
7/15/2024 10:42	44301	BEAV_T2	5	8	3	0.76	1.55	0.79	0.55	0.6	2	2	0	1500	1500	0
7/15/2024 10:42	67801	WLAN_T1	3	4	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/15/2024 10:42	67804	WLAN_T1	10	10	0	0.92	0.6	-0.32	0	0	0	0	0	0	0	0
7/15/2024 10:43	56803	BENV_T1	7	9	2	1.46	2.17	0.71	0	0	0	0	0	0	0	0
7/15/2024 10:43	56801	BENV_T1	1	3	2	0.4	0.67	0.27	-0.19	-0.12	1	1	0	600	600	0
7/15/2024 10:44	47001	HUGH_T2	3	3	0	7.57	7.27	-0.3	-0.92	-0.88	1	1	0	900	900	0
7/15/2024 10:46	11804	FRAN_T1	215	247	32	0.78	1.46	0.68	1.39	1.44	0	0	0	0	0	0
7/15/2024 10:47	47101	MARL_T1	24	50	26	0.59	0.5	-0.09	-0.96	-1.08	2	2	0	1200	1200	0
7/15/2024 10:48	41902	REED_T1	30	64	34	0.58	0.39	-0.19	0.68	0.66	1	1	0	900	900	0
7/15/2024 10:48	41901	REED_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/15/2024 10:48	47001	HUGH_T2	3	3	0	7.2	7.23	0.03	-0.92	-0.88	1	1	0	900	900	0
7/15/2024 10:48	41903	REED_T1	4	6	2	1.5	1.37	-0.13	0	0	0	0	0	0	0	0
7/15/2024 10:48	47101	MARL_T1	24	50	26	0.59	0.5	-0.09	-0.48	-0.54	1	1	0	600	600	0
7/15/2024 10:49	47101	MARL_T1	24	50	26	0.59	0.5	-0.09	-1.43	-1.62	3	3	0	1800	1800	0
7/15/2024 10:50	42901	MIDD_T2	3	5	2	2.2	0.5	-1.7	0	0	0	0	0	0	0	0
7/15/2024 10:50	42903	MIDD_T2	0	0	0	0	0	0	1.28	1.32	1	1	0	1200	1200	0
7/15/2024 10:50	42902	MIDD_T2	4	4	0	1.13	1.85	0.72	0	0	0	0	0	0	0	0
7/15/2024 10:51	17002	RIRO_T2	0	0	0	0	0	0	1.11	1.13	0	0	0	0	0	0
7/15/2024 10:51	54701	NEBL_T1	1	6	5	0.1	0.25	0.15	0	0	1	1	0	600	600	0
7/15/2024 10:53	15701	TANN_T1	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
7/15/2024 10:53	56504	ROCK_T2	0	6	6	0	0.73	0.73	0	0	0	0	0	0	0	0
7/15/2024 10:53	15704	TANN_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 10:53	56501	ROCK_T2	1	2	1	0.4	0.5	0.1	-2.16	-2.13	0	0	0	0	0	0
7/15/2024 10:53	16302	ALPA_T2	0	0	0	0	0	0	0.42	0.62	0	0	0	0	0	0
7/15/2024 10:54	16302	ALPA_T2	0	0	0	0	0	0	0.21	0.31	0	0	0	0	0	0
7/15/2024 10:56	16302	ALPA_T2	0	0	0	0	0	0	0.21	0.31	0	0	0	0	0	0
7/15/2024 10:57	14404	SSLA_T1	7	13	6	0.81	0.57	-0.24	0	0	0	0	0	0	0	0
7/15/2024 10:57	14403	SSLA_T1	4	3	-1	0.83	0	-0.83	1.08	1.15	1	1	0	600	600	0
7/15/2024 11:00	63804	HEMP_T1	1	1	0	8.1	7.8	-0.3	0	0	0	0	0	0	0	0
7/15/2024 11:00	63802	HEMP_T1	0	0	0	0	0	0	0.8	0.83	0	0	0	0	0	0
7/15/2024 11:00	11507	FREE_T2	27	95	68	0.66	0.67	0.01	0.97	1.04	1	1	0	600	600	0
7/15/2024 11:01	52004	LING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/15/2024 11:01	52002	LING_T2	3	5	2	0.27	0.28	0.01	0.24	0.24	0	0	0	0	0	0
7/15/2024 11:01	52006	LING_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 11:02	20601	GRWO_T2	164	170	6	1.18	1.15	-0.03	0.78	0.8	0	0	0	0	0	0
7/15/2024 11:04	52004	LING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/15/2024 11:04	52002	LING_T2	3	5	2	0.27	0.28	0.01	0.71	0.71	0	0	0	0	0	0
7/15/2024 11:04	52006	LING_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 11:05	52002	LING_T2	3	5	2	0.27	0.28	0.01	0.24	0.24	0	0	0	0	0	0
7/15/2024 11:05	52004	LING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/15/2024 11:05	52006	LING_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 11:07	55101	WERT_T1	32	60	28	0.58	0.66	0.08	-1.51	-1.42	4	4	0	3300	3300	0
7/15/2024 11:07	67203	TEHI_T1	42	44	2	0.67	0.6	-0.07	3	2.3	3	3	0	2100	2100	0
7/15/2024 11:07	67201	TEHI_T1	11	29	18	0.74	0.62	-0.12	0	0	0	0	0	0	0	0
7/15/2024 11:08	24902	WHHA_T1	1	3	2	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
7/15/2024 11:08	24901	WHHA_T1	0	1	1	0	0.1	0.1	0.16	0.16	0	0	0	0	0	0
7/15/2024 11:11	40101	HUNT_T2	312	267	-45	0.82	0.48	-0.34	-0.38	-0.35	0	0	0	0	0	0
7/15/2024 11:12	40101	HUNT_T2	312	267	-45	0.82	0.48	-0.34	-0.77	-0.71	0	0	0	0	0	0
7/15/2024 11:12	46206	DANV_T2	111	111	0	1.16	1.04	-0.12	2.46	2.29	2	2	0	2100	2100	0
7/15/2024 11:12	46203	DANV_T2	1	5	4	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/15/2024 11:12	46205	DANV_T2	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/15/2024 11:12	46204	DANV_T2	73	102	29	0.54	0.51	-0.03	0	0	0	0	0	0	0	0
7/15/2024 11:15	41602	CLEV_T1	20	40	20	0.72	0.57	-0.15	0	0	0	0	0	0	0	0
7/15/2024 11:15	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 11:15	12701	MACU_T1	0	10	10	0	0.54	0.54	-0.65	-0.64	1	1	0	1200	1200	0
7/15/2024 11:18	12701	MACU_T1	0	10	10	0	0.54	0.54	-0.65	-0.64	1	1	0	1200	1200	0
7/15/2024 11:18	64201	KINZ_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/15/2024 11:18	64204	KINZ_T1	3	3	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/15/2024 11:18	64202	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 11:18	64203	KINZ_T1	7	7	0	0.86	0.97	0.11	0.6	0.5	3	3	0	2100	2100	0
7/15/2024 11:19	64302	LINC_T2	20	43	23	0.63	0.71	0.08	1.96	2	0	0	0	0	0	0
7/15/2024 11:20	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 11:20	47403	PENS_T1	1	1	0	2.2	1.9	-0.3	0	0	0	0	0	0	0	0
7/15/2024 11:20	47401	PENS_T1	19	34	15	0.61	0.87	0.26	0.45	0.54	0	0	0	0	0	0
7/15/2024 11:21	55408	SHER_T2	2	2	0	0.75	0.7	-0.05	-0.94	-0.94	1	1	0	1200	1200	0
7/15/2024 11:21	47401	PENS_T1	19	34	15	0.61	0.87	0.26	0.54	0.74	0	0	0	0	0	0
7/15/2024 11:21	47403	PENS_T1	1	1	0	2.2	1.9	-0.3	0	0	0	0	0	0	0	0
7/15/2024 11:21	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 11:22	43301	WATS_T2	0	0	0	0	0	0	0.04	0.1	1	1	0	900	900	0
7/15/2024 11:22	40601	PIGR_T1	1	6	5	0.2	0.27	0.07	-0.06	-0.02	0	0	0	0	0	0
7/15/2024 11:22	40603	PIGR_T1	38	42	4	0.49	0.49	0	0	0	0	0	0	0	0	0
7/15/2024 11:22	43304	WATS_T2	4	7	3	0.45	0.1	-0.35	-0.73	-0.76	1	1	0	600	600	0
7/15/2024 11:22	67203	TEHI_T1	44	15	-29	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
7/15/2024 11:22	40602	PIGR_T1	1	4	3	2.1	0.88	-1.22	0	0	0	0	0	0	0	0
7/15/2024 11:22	67201	TEHI_T1	25	23	-2	0.76	0.55	-0.21	1.67	1.6	1	1	0	600	600	0
7/15/2024 11:23	40601	PIGR_T1	1	6	5	0.2	0.27	0.07	0	0	0	0	0	0	0	0
7/15/2024 11:23	40603	PIGR_T1	38	42	4	0.49	0.49	0	0	0	0	0	0	0	0	0
7/15/2024 11:23	59101	WALK_T2	0	4	4	0	0	0	1.01	0.86	3	3	0	1800	1800	0
7/15/2024 11:23	59102	WALK_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
7/15/2024 11:23	40602	PIGR_T1	1	4	3	2.1	0.88	-1.22	-0.84	-0.8	1	1	0	600	600	0
7/15/2024 11:24	43304	WATS_T2	4	7	3	0.45	0.1	-0.35	-0.73	-0.76	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/15/2024 11:24	43301	WATS_T2	0	0	0	0	0	0	0.04	0.1	1	1	0	900	900	0
7/15/2024 11:25	46004	BERW_T2	2	1	-1	0.3	0.3	0	1.19	1.21	0	0	0	0	0	0
7/15/2024 11:25	43304	WATS_T2	4	7	3	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
7/15/2024 11:25	43301	WATS_T2	0	0	0	0	0	0	0.13	0.31	3	3	0	2700	2700	0
7/15/2024 11:25	44301	BEAV_T2	30	55	25	0.54	0.68	0.14	0.51	0.53	2	2	0	1500	1500	0
7/15/2024 11:25	64101	REFR_T1	6	11	5	0.78	1.85	1.07	0.1	0.09	0	0	0	0	0	0
7/15/2024 11:26	43304	WATS_T2	4	7	3	0.45	0.1	-0.35	-0.73	-0.76	1	1	0	600	600	0
7/15/2024 11:26	58001	WCAR_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 11:26	67503	WEWI_T2	0	3	3	0	0	0	0.16	0.17	0	0	0	0	0	0
7/15/2024 11:26	58003	WCAR_T1	0	1	1	0	0.4	0.4	1.34	1.39	2	2	0	1200	1200	0
7/15/2024 11:26	44301	BEAV_T2	30	55	25	0.54	0.68	0.14	0.51	0.53	2	2	0	1500	1500	0
7/15/2024 11:26	44801	EDAN_T2	1	2	1	0.9	0.55	-0.35	-1.95	-1.9	0	0	0	0	0	0
7/15/2024 11:30	44801	EDAN_T2	2	2	0	0.35	0.55	0.2	-0.98	-0.95	0	0	0	0	0	0
7/15/2024 11:31	44801	EDAN_T2	2	2	0	0.35	0.55	0.2	-0.98	-0.95	0	0	0	0	0	0
7/15/2024 11:33	47101	MARL_T1	73	148	75	0.82	0.94	0.12	-0.36	-0.39	1	1	0	600	600	0
7/15/2024 11:33	47104	MARL_T1	2	7	5	0.5	0.41	-0.09	0	0	0	0	0	0	0	0
7/15/2024 11:33	48301	ORWI_T1	101	178	77	0.33	0.45	0.12	1.26	1.26	0	0	0	0	0	0
7/15/2024 11:35	56504	ROCK_T2	4	2	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/15/2024 11:35	56503	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/15/2024 11:35	47104	MARL_T1	2	7	5	0.5	0.41	-0.09	0	0	0	0	0	0	0	0
7/15/2024 11:35	56501	ROCK_T2	2	18	16	0.3	0.31	0.01	-2.09	-2.02	0	0	0	0	0	0
7/15/2024 11:35	47101	MARL_T1	73	148	75	0.82	0.94	0.12	-0.36	-0.39	1	1	0	600	600	0
7/15/2024 11:37	64101	REFR_T1	11	14	3	1.85	2.98	1.13	0.09	0.16	0	0	0	0	0	0
7/15/2024 11:38	42701	AUGU_T1	33	45	12	0.61	0.49	-0.12	0	0	2	2	0	1800	1800	0
7/15/2024 11:39	61101	BERK_T5	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/15/2024 11:39	61102	BERK_T5	0	0	0	0	0	0	0.82	0.68	1	1	0	300	300	0
7/15/2024 11:40	42701	AUGU_T1	33	45	12	0.61	0.49	-0.12	0	0	2	2	0	1800	1800	0
7/15/2024 11:40	15704	TANN_T1	10	36	26	1.18	0.49	-0.69	0	0	0	0	0	0	0	0
7/15/2024 11:40	15701	TANN_T1	1	1	0	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
7/15/2024 11:41	43304	WATS_T2	3	9	6	0.2	0.23	0.03	-0.76	-0.99	1	1	0	600	600	0
7/15/2024 11:41	42701	AUGU_T1	33	45	12	0.61	0.49	-0.12	0	0	2	2	0	1800	1800	0
7/15/2024 11:43	61701	ELIZ_T1	1	2	1	3.5	2.25	-1.25	0	0	0	0	0	0	0	0
7/15/2024 11:43	61703	ELIZ_T1	0	0	0	0	0	0	-0.99	-1.22	1	1	0	900	900	0
7/15/2024 11:43	40101	HUNT_T2	253	287	34	0.54	0.59	0.05	-0.41	-0.4	0	0	0	0	0	0
7/15/2024 11:44	61701	ELIZ_T1	1	2	1	3.5	2.25	-1.25	0	0	0	0	0	0	0	0
7/15/2024 11:44	61703	ELIZ_T1	0	0	0	0	0	0	-2.98	-3.66	3	3	0	2700	2700	0
7/15/2024 11:46	61701	ELIZ_T1	1	2	1	3.5	2.3	-1.2	0	0	0	0	0	0	0	0
7/15/2024 11:46	61703	ELIZ_T1	0	0	0	0	0	0	-0.99	-1.22	1	1	0	900	900	0
7/15/2024 11:47	65001	NEFF_T2	0	0	0	0	0	0	-0.38	-0.47	1	1	0	1200	1200	0
7/15/2024 11:47	65005	NEFF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/15/2024 11:48	57303	MOAL_T2	1	1	0	8.3	8.6	0.3	0	0	0	0	0	0	0	0
7/15/2024 11:48	57306	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 11:48	57304	MOAL_T2	3	37	34	1.2	0.52	-0.68	0.15	0.17	0	0	0	0	0	0
7/15/2024 11:51	67204	TEHI_T2	0	4	4	0	0	0	0.03	0.07	0	0	0	0	0	0
7/15/2024 11:51	60502	NMAN_T2	1	1	0	0.5	0.1	-0.4	-0.28	-0.2	0	0	0	0	0	0
7/15/2024 11:51	60501	NMAN_T2	3	3	0	3.7	3.03	-0.67	0	0	0	0	0	0	0	0
7/15/2024 11:52	67204	TEHI_T2	0	4	4	0	0	0	0.03	0.07	0	0	0	0	0	0
7/15/2024 11:54	59101	WALK_T2	2	5	3	0.65	0.2	-0.45	1.07	0.56	3	3	0	1800	1800	0
7/15/2024 11:54	59102	WALK_T2	2	5	3	0.3	0.35	0.05	0	0	0	0	0	0	0	0
7/15/2024 11:54	67605	WARW_T1	1	2	1	0.5	0.5	0	-0.68	-0.63	0	0	0	0	0	0
7/15/2024 11:55	67605	WARW_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
7/15/2024 11:55	56801	BENV_T1	4	11	7	1.08	0.54	-0.54	-0.04	0.04	1	1	0	600	600	0
7/15/2024 11:55	56803	BENV_T1	11	15	4	2.55	3.33	0.78	0	0	0	0	0	0	0	0
7/15/2024 11:55	59101	WALK_T2	2	5	3	0.65	0.2	-0.45	2.13	1.11	6	6	0	3600	3600	0
7/15/2024 11:55	67603	WARW_T1	0	0	0	0	0	0	-0.02	0.07	0	0	0	0	0	0
7/15/2024 11:55	59102	WALK_T2	2	5	3	0.3	0.35	0.05	0	0	0	0	0	0	0	0
7/15/2024 11:56	56801	BENV_T1	4	11	7	1.08	0.54	-0.54	-0.13	0.11	3	3	0	1800	1800	0
7/15/2024 11:56	56803	BENV_T1	11	15	4	2.55	3.33	0.78	0	0	0	0	0	0	0	0
7/15/2024 11:57	56803	BENV_T1	11	15	4	2.55	3.33	0.78	0	0	0	0	0	0	0	0
7/15/2024 11:57	56801	BENV_T1	4	11	7	1.08	0.54	-0.54	-0.09	0.07	2	2	0	1200	1200	0
7/15/2024 11:58	56803	BENV_T1	11	15	4	2.55	3.33	0.78	0	0	0	0	0	0	0	0
7/15/2024 11:58	56801	BENV_T1	4	11	7	1.08	0.54	-0.54	-0.09	0.07	2	2	0	1200	1200	0
7/15/2024 11:59	40101	HUNT_T2	253	339	86	0.61	0.58	-0.03	-0.4	-0.4	0	0	0	0	0	0
7/15/2024 12:00	22905	HARW_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 12:00	22901	HARW_T1	21	26	5	1.48	1.36	-0.12	0.28	0.35	1	1	0	1200	1200	0
7/15/2024 12:00	22903	HARW_T1	13	7	-6	0.59	0.26	-0.33	0	0	0	0	0	0	0	0
7/15/2024 12:00	64305	LINC_T1	0	0	0	0	0	0	-0.35	-0.45	0	0	0	0	0	0
7/15/2024 12:02	64904	MILL_T1	0	0	0	0	0	0	-0.43	-0.4	0	0	0	0	0	0
7/15/2024 12:03	25503	MADI_T1	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
7/15/2024 12:03	65501	MOJO_T1	0	0	0	0	0	0	-1.47	-1.45	2	2	0	1800	1800	0
7/15/2024 12:04	40601	PIGR_T1	1	5	4	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/15/2024 12:04	40602	PIGR_T1	1	4	3	1.9	0.8	-1.1	-0.82	-0.79	1	1	0	600	600	0
7/15/2024 12:04	40603	PIGR_T1	9	12	3	0.59	0.26	-0.33	0	0	0	0	0	0	0	0
7/15/2024 12:07	57104	SPHI_T2	1	0	-1	5.6	0	-5.6	-1.75	-1.71	1	1	0	900	900	0
7/15/2024 12:09	56801	BENV_T1	4	11	7	0.45	0.77	0.32	0.04	0.06	1	1	0	600	600	0
7/15/2024 12:09	56803	BENV_T1	13	10	-3	2.66	2.72	0.06	0	0	0	0	0	0	0	0
7/15/2024 12:10	59102	WALK_T2	3	2	-1	0.23	0.35	0.12	0	0	0	0	0	0	0	0
7/15/2024 12:10	59101	WALK_T2	3	2	-1	0.7	0.2	-0.5	0.56	0.6	3	3	0	1800	1800	0
7/15/2024 12:11	41602	CLEV_T1	17	28	11	0.49	0.38	-0.11	0	0	1	1	0	600	600	0
7/15/2024 12:11	56801	BENV_T1	4	11	7	0.45	0.77	0.32	0.07	0.12	2	2	0	1200	1200	0
7/15/2024 12:11	56803	BENV_T1	13	10	-3	2.66	2.72	0.06	0	0	0	0	0	0	0	0
7/15/2024 12:12	56803	BENV_T1	13	10	-3	2.66	2.72	0.06	0	0	0	0	0	0	0	0
7/15/2024 12:12	56801	BENV_T1	4	11	7	0.45	0.77	0.32	0.04	0.06	1	1	0	600	600	0
7/15/2024 12:12	10602	BLGI_T2	30	106	76	0.72	0.67	-0.05	1.44	1.4	0	0	0	0	0	0
7/15/2024 12:13	22901	HARW_T1	21	26	5	1.48	1.36	-0.12	0.35	0.37	1	1	0	1200	1200	0
7/15/2024 12:13	22903	HARW_T1	13	7	-6	0.59	0.26	-0.33	0	0	0	0	0	0	0	0
7/15/2024 12:13	56801	BENV_T1	4	11	7	0.45	0.77	0.32	0.07	0.12	2	2	0	1200	1200	0
7/15/2024 12:13	56803	BENV_T1	13	10	-3	2.66	2.72	0.06	0	0	0	0	0	0	0	0
7/15/2024 12:13	22905	HARW_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 12:15	46803	HEPB_T2	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
7/15/2024 12:15	46801	HEPB_T2	2	2	0	0.2	0.2	0	0.53	0.57	0	0	0	0	0	0
7/15/2024 12:16	65503	MOJO_T2	5	9	4	0.72	0.48	-0.24	0.42	0.55	1	1	0	900	900	0
7/15/2024 12:19	65901	SAKR_T2	1	3	2	4.8	4.7	-0.1	0.04	0.14	2	2	0	1500	1500	0
7/15/2024 12:19	65902	SAKR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 12:20	48301	ORWI_T1	191	224	33	0.54	0.53	-0.01	1.36	1.36	0	0	0	0	0	0
7/15/2024 12:22	48301	ORWI_T1	191	224	33	0.54	0.53	-0.01	1.36	1.4	0	0	0	0	0	0
7/15/2024 12:23	60701	BREC_T1	12	49	37	0.8	0.66	-0.14	0.46	0.33	2	2	0	1200	1200	0
7/15/2024 12:23	67701	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/15/2024 12:23	67703	WERN_T2	0	1	1	0	0	0	-0.02	-0.02	2	2	0	1800	1800	0
7/15/2024 12:24	29402	BELT_T1	34	27	-7	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
7/15/2024 12:24	60701	BREC_T1	12	49	37	0.8	0.66	-0.14	0.46	0.33	2	2	0	1200	1200	0
7/15/2024 12:24	29401	BELT_T1	33	33	0	0.62	0.66	0.04	0	0	0	0	0	0	0	0
7/15/2024 12:25	58003	WCAR_T1	1	4	3	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/15/2024 12:25	65902	SAKR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 12:25	65901	SAKR_T2	1	3	2	4.8	4.7	-0.1	0.14	0.07	2	2	0	1500	1500	0
7/15/2024 12:25	58001	WCAR_T1	3	2	-1	0.2	0.3	0.1	-0.59	-0.63	0	0	0	0	0	0
7/15/2024 12:26	20403	ASHF_T2	31	93	62	0.59	0.53	-0.06	1.23	1.16	0	0	0	0	0	0
7/15/2024 12:26	46204	DANV_T2	97	94	-3	0.51	0.39	-0.12	0	0	0	0	0	0	0	0
7/15/2024 12:26	20402	ASHF_T2	42	62	20	1.05	1.14	0.09	0	0	0	0	0	0	0	0
7/15/2024 12:26	46203	DANV_T2	7	12	5	0.31	0.63	0.32	-1.26	-1.13	0	0	0	0	0	0
7/15/2024 12:26	46206	DANV_T2	91	82	-9	0.93	0.7	-0.23	0	0	0	0	0	0	0	0
7/15/2024 12:26	46205	DANV_T2	2	3	1	0.45	0.65	0.2	0	0	0	0	0	0	0	0
7/15/2024 12:26	20401	ASHF_T2	10	15	5	0.98	1.03	0.05	0	0	0	0	0	0	0	0
7/15/2024 12:27	60701	BREC_T1	12	49	37	0.8	0.66	-0.14	0.46	0.33	2	2	0	1200	1200	0
7/15/2024 12:28	44801	EDAN_T2	4	6	2	0.43	0.8	0.37	-0.91	-0.95	0	0	0	0	0	0
7/15/2024 12:29	44801	EDAN_T2	4	6	2	0.43	0.8	0.37	-0.91	-0.95	0	0	0	0	0	0
7/15/2024 12:32	47104	MARL_T1	24	13	-11	0.47	0.31	-0.16	0	0	0	0	0	0	0	0
7/15/2024 12:32	47101	MARL_T1	174	170	-4	1	0.88	-0.12	-0.24	-0.34	1	1	0	600	600	0
7/15/2024 12:33	47802	MOCA_T2	0	0	0	0	0	0	-0.34	-0.06	0	0	0	0	0	0
7/15/2024 12:34	66103	REAM_T2	0	0	0	0	0	0	0.48	0.56	1	1	0	1200	1200	0
7/15/2024 12:34	52006	LING_T2	8	6	-2	0.66	0.62	-0.04	0	0	0	0	0	0	0	0
7/15/2024 12:34	64202	KINZ_T1	50	55	5	0.75	0.76	0.01	0	0	0	0	0	0	0	0
7/15/2024 12:34	64203	KINZ_T1	100	215	115	0.84	0.7	-0.14	0	0	0	0	0	0	0	0
7/15/2024 12:34	52004	LING_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
7/15/2024 12:34	64201	KINZ_T1	268	426	158	0.52	0.92	0.4	-0.56	-0.35	5	5	0	3300	3300	0
7/15/2024 12:34	64204	KINZ_T1	88	146	58	0.56	0.48	-0.08	0	0	0	0	0	0	0	0
7/15/2024 12:34	52002	LING_T2	24	5	-19	0.5	0.1	-0.4	0.48	-0.32	0	1	1	0	900	900
7/15/2024 12:35	52004	LING_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
7/15/2024 12:35	52006	LING_T2	8	6	-2	0.66	0.62	-0.04	0	0	0	0	0	0	0	0
7/15/2024 12:35	52002	LING_T2	24	5	-19	0.5	0.1	-0.4	0.48	-0.32	0	1	1	0	900	900
7/15/2024 12:36	52404	GRPA_T2	13	21	8	0.34	0.42	0.08	0.54	0.57	0	0	0	0	0	0
7/15/2024 12:36	52402	GRPA_T2	40	100	60	0.64	0.86	0.22	0	0	0	0	0	0	0	0
7/15/2024 12:36	52403	GRPA_T2	194	261	67	0.91	1.26	0.35	0	0	0	0	0	0	0	0
7/15/2024 12:36	52401	GRPA_T2	26	55	29	0.39	0.55	0.16	-0.59	-0.6	0	0	0	0	0	0
7/15/2024 12:37	54701	NEBL_T1	135	761	626	0.87	0.73	-0.14	0	0	1	1	0	600	600	0
7/15/2024 12:37	59101	WALK_T2	0	0	0	0	0	0	0.65	0.39	3	3	0	1800	1800	0
7/15/2024 12:37	52402	GRPA_T2	40	100	60	0.64	0.86	0.22	0	0	0	0	0	0	0	0
7/15/2024 12:37	52401	GRPA_T2	26	55	29	0.39	0.55	0.16	-0.6	-0.6	0	0	0	0	0	0
7/15/2024 12:37	52404	GRPA_T2	13	21	8	0.34	0.42	0.08	0	0	0	0	0	0	0	0
7/15/2024 12:37	52403	GRPA_T2	194	261	67	0.91	1.26	0.35	0	0	0	0	0	0	0	0
7/15/2024 12:37	59102	WALK_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/15/2024 12:38	43304	WATS_T2	11	12	1	0.2	0.2	0	0	0	0	0	0	0	0	0
7/15/2024 12:38	43301	WATS_T2	0	9	9	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 12:38	56803	BENV_T1	10	14	4	3.38	2.53	-0.85	0	0	0	0	0	0	0	0
7/15/2024 12:38	43302	WATS_T2	0	0	0	0	0	0	-0.1	-0.13	3	3	0	2400	2400	0
7/15/2024 12:38	56801	BENV_T1	7	14	7	1.03	0.4	-0.63	0.04	0.07	1	1	0	600	600	0
7/15/2024 12:39	60701	BREC_T1	40	87	47	0.61	0.71	0.1	0.33	0.33	2	2	0	1200	1200	0
7/15/2024 12:39	56803	BENV_T1	10	14	4	3.38	2.53	-0.85	0	0	0	0	0	0	0	0
7/15/2024 12:39	67801	WLAN_T1	94	40	-54	0.72	0.16	-0.56	-1.01	-0.98	0	0	0	0	0	0
7/15/2024 12:39	56801	BENV_T1	7	14	7	1.03	0.4	-0.63	0.04	0.07	1	1	0	600	600	0
7/15/2024 12:39	67804	WLAN_T1	10	10	0	2	1.59	-0.41	0	0	0	0	0	0	0	0
7/15/2024 12:42	43301	WATS_T2	0	9	9	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 12:42	43302	WATS_T2	0	0	0	0	0	0	-0.1	-0.13	3	3	0	2400	2400	0
7/15/2024 12:42	11404	FARM_T1	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/15/2024 12:42	11402	FARM_T1	8	11	3	0.73	0.78	0.05	0	0	0	0	0	0	0	0
7/15/2024 12:42	11406	FARM_T1	3	6	3	0.9	0.63	-0.27	0	0	0	0	0	0	0	0
7/15/2024 12:42	43304	WATS_T2	11	12	1	0.2	0.2	0	0	0	0	0	0	0	0	0
7/15/2024 12:42	11405	FARM_T1	5	6	1	0.38	0.2	-0.18	0.77	-0.48	1	1	0	1200	1200	0
7/15/2024 12:44	44801	EDAN_T2	3	5	2	0.73	0.88	0.15	-0.95	-0.96	0	0	0	0	0	0
7/15/2024 12:44	60801	BUCK_T1	0	0	0	0	0	0	-0.26	-0.24	1	1	0	600	600	0
7/15/2024 12:45	51402	LYKE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 12:45	51401	LYKE_T1	2	1	-1	1.35	0.4	-0.95	0.61	0	0	0	0	0	0	0
7/15/2024 12:45	44801	EDAN_T2	5	8	3	0.72	0.77	0.05	-0.95	-0.96	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/15/2024 12:47	64201	KINZ_T1	411	433	22	0.92	1.03	0.11	0	0	0	0	0	0	0	0
7/15/2024 12:47	64202	KINZ_T1	54	56	2	0.84	0.79	-0.05	0	0	0	0	0	0	0	0
7/15/2024 12:47	64203	KINZ_T1	204	215	11	0.78	0.66	-0.12	1.05	0.96	3	3	0	2100	2100	0
7/15/2024 12:47	67605	WARW_T1	2	2	0	0.35	0.4	0.05	-0.61	-0.54	0	0	0	0	0	0
7/15/2024 12:47	64204	KINZ_T1	142	144	2	0.69	0.48	-0.21	0	0	0	0	0	0	0	0
7/15/2024 12:48	51401	LYKE_T1	2	1	-1	1.35	0.4	-0.95	0.61	0	0	0	0	0	0	0
7/15/2024 12:48	67605	WARW_T1	2	2	0	0.35	0.4	0.05	-0.61	-0.54	0	0	0	0	0	0
7/15/2024 12:48	51402	LYKE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 12:49	47401	PENS_T1	21	35	14	0.63	0.67	0.04	0.66	0.67	0	0	0	0	0	0
7/15/2024 12:49	47403	PENS_T1	2	1	-1	0.95	1.9	0.95	0	0	0	0	0	0	0	0
7/15/2024 12:49	47402	PENS_T1	1	6	5	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
7/15/2024 12:50	47401	PENS_T1	21	35	14	0.63	0.67	0.04	1.31	1.34	0	0	0	0	0	0
7/15/2024 12:50	47402	PENS_T1	1	6	5	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
7/15/2024 12:50	47403	PENS_T1	2	1	-1	0.95	1.9	0.95	0	0	0	0	0	0	0	0
7/15/2024 12:51	52501	PROG_T1	0	0	0	0	0	0	-0.18	-0.16	1	1	0	300	300	0
7/15/2024 12:55	40301	TAMA_T3	1	2	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 12:55	44801	EDAN_T2	5	8	3	0.72	0.77	0.05	-0.96	-0.96	0	0	0	0	0	0
7/15/2024 12:55	40302	TAMA_T3	0	0	0	0	0	0	-0.88	-0.82	0	0	0	0	0	0
7/15/2024 12:56	24901	WHHA_T1	0	2	2	0	0.1	0.1	0.2	0.17	0	0	0	0	0	0
7/15/2024 12:56	24902	WHHA_T1	7	11	4	0.8	0.62	-0.18	0	0	0	0	0	0	0	0
7/15/2024 12:57	40101	HUNT_T2	322	313	-9	0.8	0.63	-0.17	-1.78	-2.4	0	0	0	0	0	0
7/15/2024 13:00	45702	LIND_T2	1	1	0	0.4	0.5	0.1	-0.98	-1.01	0	0	0	0	0	0
7/15/2024 13:04	52006	LING_T2	5	7	2	0.62	1.92	1.3	0	0	0	0	0	0	0	0
7/15/2024 13:04	52004	LING_T2	1	1	0	2.3	0	-2.3	0.62	0.6	0	0	0	0	0	0
7/15/2024 13:04	52002	LING_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
7/15/2024 13:05	58705	ROSE_T2	4	4	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
7/15/2024 13:05	58701	ROSE_T2	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/15/2024 13:05	58702	ROSE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 13:05	58704	ROSE_T2	1	1	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
7/15/2024 13:05	58706	ROSE_T2	2	4	2	2.05	2.9	0.85	0.55	0.51	1	1	0	600	600	0
7/15/2024 13:08	57101	SPHI_T2	6	6	0	0.45	0.18	-0.27	0	0	0	0	0	0	0	0
7/15/2024 13:08	44301	BEAV_T2	70	87	17	0.76	0.71	-0.05	0.52	0.71	2	2	0	1500	1500	0
7/15/2024 13:08	57103	SPHI_T2	0	0	0	0	0	0	-0.04	0.01	1	1	0	600	600	0
7/15/2024 13:11	60701	BREC_T1	86	125	39	0.58	0.55	-0.03	0.4	0.35	2	2	0	1200	1200	0
7/15/2024 13:12	66503	SMAN_T2	6	12	6	0.7	0.57	-0.13	0	0	0	0	0	0	0	0
7/15/2024 13:12	66505	SMAN_T2	43	232	189	0.34	0.39	0.05	0.82	0.62	4	4	0	2300	2300	0
7/15/2024 13:12	66504	SMAN_T2	12	16	4	0.93	1.17	0.24	0	0	0	0	0	0	0	0
7/15/2024 13:13	40101	HUNT_T2	311	305	-6	0.74	0.62	-0.12	-1.2	-0.88	0	0	0	0	0	0
7/15/2024 13:14	66504	SMAN_T2	12	16	4	0.93	1.17	0.24	0	0	0	0	0	0	0	0
7/15/2024 13:14	66503	SMAN_T2	6	12	6	0.7	0.57	-0.13	0	0	0	0	0	0	0	0
7/15/2024 13:14	66505	SMAN_T2	43	232	189	0.34	0.39	0.05	1.63	1.23	8	8	0	4600	4600	0
7/15/2024 13:16	22901	HARW_T1	22	29	7	1.3	1.4	0.1	0	0	0	0	0	0	0	0
7/15/2024 13:16	22903	HARW_T1	23	23	0	1.19	0.76	-0.43	-0.16	-0.18	0	0	0	0	0	0
7/15/2024 13:16	22905	HARW_T1	12	24	12	0.32	0.99	0.67	0	0	0	0	0	0	0	0
7/15/2024 13:17	12704	MACU_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 13:17	12701	MACU_T1	16	35	19	0.61	0.33	-0.28	-0.44	-0.45	1	1	0	1200	1200	0
7/15/2024 13:18	13503	MCMI_T2	2	2	0	0.5	0.55	0.05	-0.43	-0.39	0	0	0	0	0	0
7/15/2024 13:19	12701	MACU_T1	16	35	19	0.61	0.33	-0.28	-0.44	-0.45	1	1	0	1200	1200	0
7/15/2024 13:19	12704	MACU_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 13:20	59202	THOM_T1	7	10	3	0.87	1.4	0.53	0	0	0	0	0	0	0	0
7/15/2024 13:21	60504	NMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/15/2024 13:21	60501	NMAN_T2	3	3	0	2.57	3.03	0.46	0	0	0	0	0	0	0	0
7/15/2024 13:21	60502	NMAN_T2	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
7/15/2024 13:22	59202	THOM_T1	7	10	3	0.87	1.4	0.53	0	0	0	0	0	0	0	0
7/15/2024 13:22	54701	NEBL_T1	51	124	73	0.5	0.36	-0.14	0	0	1	1	0	600	600	0
7/15/2024 13:23	13601	RICH_T2	7	7	0	0.16	0	-0.16	0	0	0	0	0	0	0	0
7/15/2024 13:23	59202	THOM_T1	7	10	3	0.87	1.4	0.53	0	0	0	0	0	0	0	0
7/15/2024 13:23	13606	RICH_T2	23	36	13	0.79	0.72	-0.07	0.56	0.61	0	0	0	0	0	0
7/15/2024 13:25	49804	UNIV_T1	2	3	1	0.9	1.1	0.2	0	0	0	0	0	0	0	0
7/15/2024 13:25	49803	UNIV_T1	0	0	0	0	0	0	-1.45	-1.38	0	0	0	0	0	0
7/15/2024 13:26	24101	EHAZ_T1	248	185	-63	1.01	1.12	0.11	0	0	0	0	0	0	0	0
7/15/2024 13:26	24105	EHAZ_T1	4	4	0	6.35	6.2	-0.15	0	0	0	0	0	0	0	0
7/15/2024 13:26	24102	EHAZ_T1	22	23	1	1.75	1.2	-0.55	-0.29	-0.08	0	0	0	0	0	0
7/15/2024 13:28	66504	SMAN_T2	16	14	-2	1.19	1.45	0.26	0.27	0.36	0	0	0	0	0	0
7/15/2024 13:28	66503	SMAN_T2	9	12	3	0.58	0.63	0.05	0	0	0	0	0	0	0	0
7/15/2024 13:28	66505	SMAN_T2	226	197	-29	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
7/15/2024 13:30	45801	HEGI_T1	2	4	2	0.1	0.1	0	0.28	0.23	1	1	0	900	900	0
7/15/2024 13:34	58402	MORO_T1	6	9	3	0.47	0.4	-0.07	-0.41	-0.43	5	5	0	3150	3150	0
7/15/2024 13:34	55003	NEWP_T2	0	0	0	0	0	0	-0.56	-0.59	1	1	0	600	600	0
7/15/2024 13:34	58401	MORO_T1	2	5	3	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/15/2024 13:35	66703	STRA_T1	35	31	-4	0.33	0.36	0.03	0.06	0.07	0	0	0	0	0	0
7/15/2024 13:35	66701	STRA_T1	11	11	0	0.71	0.73	0.02	0	0	0	0	0	0	0	0
7/15/2024 13:35	66702	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 13:36	49804	UNIV_T1	2	2	0	0.65	1.7	1.05	0	0	0	0	0	0	0	0
7/15/2024 13:36	40602	PIGR_T1	24	45	21	0.51	0.51	0	0	0	0	0	0	0	0	0
7/15/2024 13:36	40603	PIGR_T1	12	44	32	0.38	0.46	0.08	-0.35	-0.34	0	0	0	0	0	0
7/15/2024 13:36	49803	UNIV_T1	0	0	0	0	0	0	-1.38	-1.37	0	0	0	0	0	0
7/15/2024 13:36	40601	PIGR_T1	18	42	24	0.54	0.62	0.08	0	0	0	0	0	0	0	0
7/15/2024 13:37	52401	GRPA_T2	55	85	30	0.6	0.81	0.21	0	0	0	0	0	0	0	0
7/15/2024 13:37	52402	GRPA_T2	91	90	-1	0.9	0.64	-0.26	-0.39	-0.37	0	0	0	0	0	0
7/15/2024 13:37	52404	GRPA_T2	15	33	18	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
7/15/2024 13:37	52403	GRPA_T2	195	214	19	1.18	1.02	-0.16	0	0	0	0	0	0	0	0
7/15/2024 13:38	52401	GRPA_T2	55	85	30	0.6	0.81	0.21	0	0	0	0	0	0	0	0
7/15/2024 13:38	52402	GRPA_T2	91	90	-1	0.9	0.64	-0.26	-0.39	-0.37	0	0	0	0	0	0
7/15/2024 13:38	52404	GRPA_T2	15	33	18	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
7/15/2024 13:38	52403	GRPA_T2	195	214	19	1.18	1.02	-0.16	0	0	0	0	0	0	0	0
7/15/2024 13:39	49802	UNIV_T2	0	0	0	0	0	0	0.58	0.54	0	0	0	0	0	0
7/15/2024 13:39	44301	BEAV_T2	84	112	28	0.73	0.98	0.25	0.63	0.73	2	2	0	1500	1500	0
7/15/2024 13:41	62105	ELAN_T1	3	4	1	0.57	0.4	-0.17	0	0	0	0	0	0	0	0
7/15/2024 13:41	62102	ELAN_T1	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
7/15/2024 13:41	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 13:41	62104	ELAN_T1	6	0	-6	0.22	0	-0.22	0	0	0	0	0	0	0	0
7/15/2024 13:42	11104	EGYP_T1	11	19	8	1.25	1.07	-0.18	0.49	0.46	1	1	0	900	900	0
7/15/2024 13:42	11102	EGYP_T1	21	23	2	1.32	1.03	-0.29	0	0	0	0	0	0	0	0
7/15/2024 13:42	61302	EARL_T1	0	0	0	0	0	0	0.48	0.42	4	4	0	3600	3600	0
7/15/2024 13:42	11101	EGYP_T1	7	6	-1	1.29	0.75	-0.54	0	0	0	0	0	0	0	0
7/15/2024 13:43	66503	SMAN_T2	12	22	10	0.6	0.63	0.03	0	0	0	0	0	0	0	0
7/15/2024 13:43	66504	SMAN_T2	14	14	0	1.27	1.45	0.18	0	0	0	0	0	0	0	0
7/15/2024 13:43	66505	SMAN_T2	166	230	64	0.39	0.42	0.03	0.78	0.79	4	4	0	2300	2300	0
7/15/2024 13:44	40101	HUNT_T2	305	537	232	0.68	0.95	0.27	-1.73	-1.59	0	0	0	0	0	0
7/15/2024 13:44	54504	ENOL_T2	0	0	0	0	0	0	-0.94	-0.96	1	1	0	600	600	0
7/15/2024 13:44	54502	ENOL_T2	1	1	0	8.4	10	1.6	0	0	0	0	0	0	0	0
7/15/2024 13:46	53803	MBRG_T2	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
7/15/2024 13:49	48301	ORWI_T1	315	328	13	0.65	0.62	-0.03	1.33	1.4	0	0	0	0	0	0
7/15/2024 13:49	44702	MUNC_T2	4	4	0	0.3	0.38	0.08	0	0	0	0	0	0	0	0
7/15/2024 13:49	44703	MUNC_T2	37	51	14	0.85	0.97	0.12	1.52	1.55	0	0	0	0	0	0
7/15/2024 13:49	44701	MUNC_T2	7	6	-1	0.47	0.6	0.13	0	0	0	0	0	0	0	0
7/15/2024 13:51	58702	ROSE_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
7/15/2024 13:51	58704	ROSE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 13:51	65601	QVIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/15/2024 13:51	54603	SUMM_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 13:51	54602	SUMM_T2	2	11	9	0.4	0.7	0.3	-2.92	-2.92	1	1	0	600	600	0
7/15/2024 13:51	65604	QVIL_T2	1	1	0	0.2	0	-0.2	0.64	0.69	0	0	0	0	0	0
7/15/2024 13:51	58706	ROSE_T2	2	12	10	1.45	0.53	-0.92	0.61	0.64	1	1	0	600	600	0
7/15/2024 13:51	58705	ROSE_T2	3	4	1	0.3	0.47	0.17	0	0	0	0	0	0	0	0
7/15/2024 13:51	65603	QVIL_T2	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/15/2024 13:51	54601	SUMM_T2	2	3	1	0.45	0.6	0.15	0	0	0	0	0	0	0	0
7/15/2024 13:52	49804	UNIV_T1	2	4	2	0.9	1.8	0.9	1.35	1.33	0	0	0	0	0	0
7/15/2024 13:53	48301	ORWI_T1	315	328	13	0.65	0.62	-0.03	1.4	1.39	0	0	0	0	0	0
7/15/2024 13:56	43301	WATS_T2	4	16	12	0.88	0.59	-0.29	0.18	0.17	1	1	0	900	900	0
7/15/2024 13:56	15001	BLMO_T1	9	14	5	0.59	0.63	0.04	0	0	0	0	0	0	0	0
7/15/2024 13:56	43304	WATS_T2	37	66	29	0.44	0.37	-0.07	0	0	0	0	0	0	0	0
7/15/2024 13:57	58003	WCAR_T1	7	3	-4	0.47	0.53	0.06	0.82	0.9	1	1	0	600	600	0
7/15/2024 13:57	58001	WCAR_T1	4	1	-3	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
7/15/2024 13:59	40101	HUNT_T2	451	555	104	0.94	1.22	0.28	-0.79	-0.77	0	0	0	0	0	0
7/15/2024 14:00	63801	HEMP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/15/2024 14:00	63804	HEMP_T1	2	2	0	4.45	4.35	-0.1	0.74	0.75	0	0	0	0	0	0
7/15/2024 14:01	14404	SSLA_T1	57	59	2	0.95	0.89	-0.06	0	0	0	0	0	0	0	0
7/15/2024 14:01	14401	SSLA_T1	3	1	-2	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
7/15/2024 14:01	14403	SSLA_T1	25	22	-3	0.96	0.76	-0.2	1.42	1.47	1	1	0	600	600	0
7/15/2024 14:05	40602	PIGR_T1	40	38	-2	0.57	0.55	-0.02	-0.57	-0.53	1	1	0	600	600	0
7/15/2024 14:05	40603	PIGR_T1	39	45	6	0.46	0.51	0.05	0	0	0	0	0	0	0	0
7/15/2024 14:05	40601	PIGR_T1	42	38	-4	0.62	0.68	0.06	0	0	0	0	0	0	0	0
7/15/2024 14:07	48302	ORWI_T2	173	171	-2	0.91	0.75	-0.16	0.34	0.31	0	0	0	0	0	0
7/15/2024 14:07	48303	ORWI_T2	4	4	0	0.73	0.13	-0.6	0	0	0	0	0	0	0	0
7/15/2024 14:07	57103	SPHI_T2	0	0	0	0	0	0	0.05	0.03	1	1	0	600	600	0
7/15/2024 14:07	57101	SPHI_T2	6	6	0	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
7/15/2024 14:08	60201	ATGL_T2	0	0	0	0	0	0	-0.07	-0.04	2	2	0	900	900	0
7/15/2024 14:09	66902	SHIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 14:09	66901	SHIL_T2	0	0	0	0	0	0	-1.46	-1.46	1	1	0	1200	1200	0
7/15/2024 14:09	24902	WHHA_T1	12	22	10	0.54	0.72	0.18	0	0	0	0	0	0	0	0
7/15/2024 14:09	24901	WHHA_T1	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
7/15/2024 14:10	40101	HUNT_T2	505	556	51	1.19	1.46	0.27	-0.77	-0.75	0	0	0	0	0	0
7/15/2024 14:10	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/15/2024 14:10	56501	ROCK_T2	4	8	4	0.95	0.54	-0.41	0	0	0	0	0	0	0	0
7/15/2024 14:10	56504	ROCK_T2	20	30	10	0.49	0.35	-0.14	0.76	0.78	0	0	0	0	0	0
7/15/2024 14:11	46203	DANV_T2	4	5	1	0.65	0.7	0.05	-0.46	-0.44	0	0	0	0	0	0
7/15/2024 14:11	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 14:11	46206	DANV_T2	75	69	-6	0.77	0.55	-0.22	0	0	0	0	0	0	0	0
7/15/2024 14:11	46204	DANV_T2	51	120	69	0.41	0.38	-0.03	0	0	0	0	0	0	0	0
7/15/2024 14:11	46201	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 14:12	46206	DANV_T2	75	69	-6	0.77	0.55	-0.22	0	0	0	0	0	0	0	0
7/15/2024 14:12	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 14:12	46203	DANV_T2	4	5	1	0.65	0.7	0.05	-0.46	-0.44	0	0	0	0	0	0
7/15/2024 14:12	46201	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 14:12	46204	DANV_T2	51	120	69	0.41	0.38	-0.03	0	0	0	0	0	0	0	0
7/15/2024 14:13	46201	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 14:13	46203	DANV_T2	4	5	1	0.65	0.7	0.05	-0.46	-0.44	0	0	0	0	0	0
7/15/2024 14:13	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 14:13	46204	DANV_T2	51	120	69	0.41	0.38	-0.03	0	0	0	0	0	0	0	0
7/15/2024 14:13	46206	DANV_T2	75	69	-6	0.77	0.55	-0.22	0	0	0	0	0	0	0	0
7/15/2024 14:15	46203	DANV_T2	5	3	-2	0.78	0.53	-0.25	-0.46	-0.44	0	0	0	0	0	0
7/15/2024 14:15	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/15/2024 14:15	46101	MACI_T2	0	0	0	0	0	0	-1.24	-1.41	2	2	0	2400	2400	0
7/15/2024 14:15	46201	DANV_T2	0	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0
7/15/2024 14:15	46206	DANV_T2	59	74	15	0.57	0.57	0	0	0	0	0	0	0	0	0
7/15/2024 14:15	46204	DANV_T2	59	138	79	0.39	0.53	0.14	0	0	0	0	0	0	0	0
7/15/2024 14:16	42903	MIDD_T2	9	2	-7	0.28	0	-0.28	1.56	1.49	1	1	0	1200	1200	0
7/15/2024 14:16	42902	MIDD_T2	21	22	1	1.46	1.26	-0.2	0	0	0	0	0	0	0	0
7/15/2024 14:16	42901	MIDD_T2	19	33	14	0.76	0.78	0.02	0	0	0	0	0	0	0	0
7/15/2024 14:17	14403	SSLA_T1	21	18	-3	1.05	0.82	-0.23	1.47	1.47	1	1	0	600	600	0
7/15/2024 14:17	26401	INOR_T1	155	172	17	1.17	1.15	-0.02	1.92	1.93	0	0	0	0	0	0
7/15/2024 14:17	14401	SSLA_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/15/2024 14:17	26402	INOR_T1	175	182	7	1.05	1.24	0.19	0	0	0	0	0	0	0	0
7/15/2024 14:17	14404	SSLA_T1	54	60	6	0.92	0.96	0.04	0	0	0	0	0	0	0	0
7/15/2024 14:18	64701	LITI_T1	27	36	9	3.11	2.8	-0.31	0	0	0	0	0	0	0	0
7/15/2024 14:18	64704	LITI_T1	0	0	0	0	0	0	0.93	1	1	1	0	600	600	0
7/15/2024 14:19	65205	PRIN_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
7/15/2024 14:20	57401	SPAN_T1	4	13	9	0.68	0.65	-0.03	-1.24	-1.23	2	2	0	1500	1500	0
7/15/2024 14:20	57403	SPAN_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
7/15/2024 14:22	57403	SPAN_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
7/15/2024 14:22	57401	SPAN_T1	4	13	9	0.68	0.65	-0.03	-1.23	-0.95	2	2	0	1500	1500	0
7/15/2024 14:23	57401	SPAN_T1	4	13	9	0.68	0.65	-0.03	-2.45	-1.89	4	4	0	3000	3000	0
7/15/2024 14:23	57403	SPAN_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
7/15/2024 14:24	57403	SPAN_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
7/15/2024 14:24	57401	SPAN_T1	4	13	9	0.68	0.65	-0.03	-2.45	-1.89	4	4	0	3000	3000	0
7/15/2024 14:25	66703	STRA_T1	44	85	41	0.45	0.51	0.06	0.17	0.14	0	0	0	0	0	0
7/15/2024 14:25	66701	STRA_T1	9	26	17	0.7	0.66	-0.04	0	0	0	0	0	0	0	0
7/15/2024 14:25	57403	SPAN_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
7/15/2024 14:25	57401	SPAN_T1	4	13	9	0.68	0.65	-0.03	-2.45	-1.89	4	4	0	3000	3000	0
7/15/2024 14:26	59101	WALK_T2	2	2	0	0.7	0.6	-0.1	0.58	0.49	4	4	0	2400	2400	0
7/15/2024 14:26	59102	WALK_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 14:28	66504	SMAN_T2	12	8	-4	1.23	1.37	0.14	0.41	0.39	0	0	0	0	0	0
7/15/2024 14:28	66503	SMAN_T2	14	22	8	0.69	0.43	-0.26	0	0	0	0	0	0	0	0
7/15/2024 14:28	15001	BLMO_T1	3	20	17	0.63	0.76	0.13	0	0	0	0	0	0	0	0
7/15/2024 14:28	66505	SMAN_T2	265	26	-239	0.59	0.44	-0.15	0	0	0	0	0	0	0	0
7/15/2024 14:30	64203	KINZ_T1	410	520	110	0.81	0.87	0.06	0	0	0	0	0	0	0	0
7/15/2024 14:30	64202	KINZ_T1	67	70	3	1.72	1.44	-0.28	0	0	0	0	0	0	0	0
7/15/2024 14:30	64201	KINZ_T1	537	548	11	1.7	1.54	-0.16	-0.22	-0.25	5	5	0	3300	3300	0
7/15/2024 14:30	64204	KINZ_T1	248	345	97	0.57	0.62	0.05	0	0	0	0	0	0	0	0
7/15/2024 14:32	52006	LING_T2	9	11	2	1.61	1.68	0.07	0	0	0	0	0	0	0	0
7/15/2024 14:32	52004	LING_T2	1	1	0	0.1	0.2	0.1	0.65	0.68	0	0	0	0	0	0
7/15/2024 14:32	52002	LING_T2	5	44	39	0.62	0.5	-0.12	0	0	0	0	0	0	0	0
7/15/2024 14:33	63802	HEMP_T1	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
7/15/2024 14:33	65901	SAKR_T2	31	36	5	0.57	0.82	0.25	0	0	0	0	0	0	0	0
7/15/2024 14:33	63804	HEMP_T1	2	3	1	4.45	4.5	0.05	0	0	0	0	0	0	0	0
7/15/2024 14:33	65902	SAKR_T2	2	4	2	2.25	3.1	0.85	-0.56	-0.51	2	2	0	1200	1200	0
7/15/2024 14:34	48302	ORWI_T2	165	169	4	0.82	0.79	-0.03	0	0	0	0	0	0	0	0
7/15/2024 14:34	65901	SAKR_T2	31	36	5	0.57	0.82	0.25	0.29	0.23	2	2	0	1500	1500	0
7/15/2024 14:34	48303	ORWI_T2	4	4	0	0.4	0.2	-0.2	1.11	1.09	0	0	0	0	0	0
7/15/2024 14:34	65902	SAKR_T2	2	4	2	2.25	3.1	0.85	0	0	0	0	0	0	0	0
7/15/2024 14:36	13102	NHAM_T2	3	3	0	0.9	0.93	0.03	0	0	0	0	0	0	0	0
7/15/2024 14:36	67602	WARW_T2	0	0	0	0	0	0	0.26	0.27	2	2	0	1500	1500	0
7/15/2024 14:36	13105	NHAM_T2	47	95	48	0.78	0.62	-0.16	-1.41	-1.43	1	1	0	1200	1200	0
7/15/2024 14:36	13103	NHAM_T2	8	9	1	0.75	0.2	-0.55	0	0	0	0	0	0	0	0
7/15/2024 14:39	67602	WARW_T2	0	0	0	0	0	0	0.26	0.27	2	2	0	1500	1500	0
7/15/2024 14:39	64101	REFR_T1	11	18	7	3.17	1.96	-1.21	-0.17	-0.25	0	0	0	0	0	0
7/15/2024 14:40	67602	WARW_T2	0	0	0	0	0	0	0.52	0.55	4	4	0	3000	3000	0
7/15/2024 14:41	59102	WALK_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/15/2024 14:41	59101	WALK_T2	2	3	1	0.4	0.4	0	0.49	0.5	4	4	0	2400	2400	0
7/15/2024 14:41	67602	WARW_T2	0	0	0	0	0	0	0.52	0.55	4	4	0	3000	3000	0
7/15/2024 14:43	14401	SSLA_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/15/2024 14:43	14403	SSLA_T1	18	14	-4	0.77	1.02	0.25	0.86	0.88	2	2	0	1200	1200	0
7/15/2024 14:43	14404	SSLA_T1	52	73	21	1.06	0.98	-0.08	0	0	0	0	0	0	0	0
7/15/2024 14:44	40101	HUNT_T2	528	619	91	1.43	1.62	0.19	-0.73	-0.73	0	0	0	0	0	0
7/15/2024 14:48	52004	LING_T2	1	1	0	0.2	0.7	0.5	0.68	0.68	0	0	0	0	0	0
7/15/2024 14:48	52002	LING_T2	29	53	24	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
7/15/2024 14:48	52006	LING_T2	10	13	3	1.8	1.39	-0.41	0	0	0	0	0	0	0	0
7/15/2024 14:48	64801	MONE_T2	2	8	6	0.4	0.24	-0.16	0	0	0	0	0	0	0	0
7/15/2024 14:48	64802	MONE_T2	1	0	-1	1.1	0	-1.1	-0.01	-0.01	0	0	0	0	0	0
7/15/2024 14:50	29402	BELT_T1	7	1	-6	1.56	8.6	7.04	0	0	0	0	0	0	0	0
7/15/2024 14:50	52004	LING_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
7/15/2024 14:50	52002	LING_T2	29	53	24	0.44	0.42	-0.02	-0.1	-0.07	1	1	0	900	900	0
7/15/2024 14:50	29401	BELT_T1	25	33	8	0.42	0.67	0.25	0	0	0	0	0	0	0	0
7/15/2024 14:50	52006	LING_T2	10	13	3	1.8	1.39	-0.41	0	0	0	0	0	0	0	0
7/15/2024 14:51	43202	MVIL_T2	2	1	-1	1	1.6	0.6	-0.23	-0.22	0	0	0	0	0	0
7/15/2024 14:52	43202	MVIL_T2	2	1	-1	1	1.6	0.6	-0.23	-0.22	0	0	0	0	0	0
7/15/2024 14:53	47402	PENS_T1	2	4	2	0.4	0.55	0.15	0	0	0	0	0	0	0	0
7/15/2024 14:53	47401	PENS_T1	20	18	-2	0.94	0.6	-0.34	0.85	0.89	0	0	0	0	0	0
7/15/2024 14:53	47403	PENS_T1	4	1	-3	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
7/15/2024 14:54	47402	PENS_T1	2	4	2	0.4	0.55	0.15	0	0	0	0	0	0	0	0
7/15/2024 14:54	47401	PENS_T1	20	18	-2	0.94	0.6	-0.34	0.85	0.89	0	0	0	0	0	0
7/15/2024 14:54	47403	PENS_T1	4	1	-3	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
7/15/2024 14:56	63501	HEID_TBK1-2	0	0	0	0	0	0	0.63	0.65	1	1	0	900	900	0
7/15/2024 14:56	40301	TAMA_T3	13	13	0	0.33	0.18	-0.15	0	0	0	0	0	0	0	0
7/15/2024 14:56	40303	TAMA_T3	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 14:56	40302	TAMA_T3	0	0	0	0	0	0	-0.8	-0.71	0	0	0	0	0	0
7/15/2024 15:00	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 15:00	20601	GRWO_T2	601	608	7	1.75	1.75	0	0.89	0.86	0	0	0	0	0	0
7/15/2024 15:01	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 15:01	20601	GRWO_T2	601	608	7	1.75	1.75	0	0.89	0.86	0	0	0	0	0	0
7/15/2024 15:02	47001	HUGH_T2	4	7	3	4.3	4.03	-0.27	-0.47	-0.44	1	1	0	900	900	0
7/15/2024 15:04	55001	NEWP_T1	54	110	56	1.33	1.63	0.3	0.18	0.25	0	0	0	0	0	0
7/15/2024 15:06	54603	SUMM_T2	6	3	-3	0.28	0.4	0.12	0	0	0	0	0	0	0	0
7/15/2024 15:06	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 15:06	54602	SUMM_T2	14	14	0	0.52	0.57	0.05	0	0	0	0	0	0	0	0
7/15/2024 15:06	54601	SUMM_T2	9	6	-3	0.48	0.9	0.42	0	0	3	3	0	3000	3000	0
7/15/2024 15:06	20601	GRWO_T2	601	608	7	1.75	1.75	0	0.89	0.86	0	0	0	0	0	0
7/15/2024 15:07	52403	GRPA_T2	262	274	12	1.66	1.62	-0.04	0	0	0	0	0	0	0	0
7/15/2024 15:07	52401	GRPA_T2	110	158	48	1.37	1.37	0	0	0	0	0	0	0	0	0
7/15/2024 15:07	52404	GRPA_T2	40	83	43	0.59	0.6	0.01	0	0	0	0	0	0	0	0
7/15/2024 15:07	52402	GRPA_T2	67	108	41	0.58	0.58	0	-0.59	-0.64	0	0	0	0	0	0
7/15/2024 15:08	64101	REFR_T1	15	31	16	1.77	1.52	-0.25	-0.24	-0.2	0	0	0	0	0	0
7/15/2024 15:09	20401	ASHF_T2	37	94	57	0.51	0.51	0	0	0	0	0	0	0	0	0
7/15/2024 15:09	54601	SUMM_T2	9	6	-3	0.48	0.9	0.42	0	0	3	3	0	3000	3000	0
7/15/2024 15:09	20403	ASHF_T2	130	147	17	0.94	0.66	-0.28	0.9	0.9	0	0	0	0	0	0
7/15/2024 15:09	20402	ASHF_T2	166	197	31	0.66	0.79	0.13	0	0	0	0	0	0	0	0
7/15/2024 15:09	54602	SUMM_T2	14	14	0	0.52	0.57	0.05	0	0	0	0	0	0	0	0
7/15/2024 15:09	54603	SUMM_T2	6	3	-3	0.28	0.4	0.12	0	0	0	0	0	0	0	0
7/15/2024 15:10	58402	MORO_T1	13	2	-11	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/15/2024 15:10	58401	MORO_T1	19	2	-17	0.66	0	-0.66	-2.43	-2.39	3	3	0	2100	2100	0
7/15/2024 15:10	15001	BLMO_T1	19	65	46	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
7/15/2024 15:11	52402	GRPA_T2	67	108	41	0.58	0.58	0	0	0	0	0	0	0	0	0
7/15/2024 15:11	52401	GRPA_T2	110	158	48	1.37	1.37	0	0	0	0	0	0	0	0	0
7/15/2024 15:11	52403	GRPA_T2	262	274	12	1.66	1.62	-0.04	-0.11	-0.16	0	0	0	0	0	0
7/15/2024 15:11	52404	GRPA_T2	40	83	43	0.59	0.6	0.01	0	0	0	0	0	0	0	0
7/15/2024 15:12	65802	RTWN_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
7/15/2024 15:14	46205	DANV_T2	2	5	3	0.1	0.35	0.25	0	0	0	0	0	0	0	0
7/15/2024 15:14	46203	DANV_T2	4	22	18	0.43	0.45	0.02	-0.37	-0.42	0	0	0	0	0	0
7/15/2024 15:14	46204	DANV_T2	133	138	5	0.62	0.8	0.18	0	0	0	0	0	0	0	0
7/15/2024 15:14	46206	DANV_T2	72	77	5	0.86	0.73	-0.13	0	0	0	0	0	0	0	0
7/15/2024 15:15	57403	SPAN_T1	1	9	8	1.8	0.4	-1.4	0	0	0	0	0	0	0	0
7/15/2024 15:15	57401	SPAN_T1	45	271	226	0.68	0.8	0.12	-0.93	-0.88	2	2	0	1500	1500	0
7/15/2024 15:16	26402	INOR_T1	181	182	1	1.72	1.45	-0.27	-1.12	-1.14	1	1	0	600	600	0
7/15/2024 15:16	26401	INOR_T1	163	152	-11	1.23	1.02	-0.21	0	0	0	0	0	0	0	0
7/15/2024 15:18	45801	HEGI_T1	3	4	1	0.23	0.1	-0.13	0.25	0.24	1	1	0	900	900	0
7/15/2024 15:19	47402	PENS_T1	4	9	5	0.58	0.74	0.16	0	0	0	0	0	0	0	0
7/15/2024 15:19	47401	PENS_T1	13	20	7	0.53	0.7	0.17	0.89	0.81	0	0	0	0	0	0
7/15/2024 15:20	47401	PENS_T1	13	20	7	0.53	0.7	0.17	0.89	0.81	0	0	0	0	0	0
7/15/2024 15:20	47402	PENS_T1	4	9	5	0.58	0.74	0.16	0	0	0	0	0	0	0	0
7/15/2024 15:25	67402	WAKE_T2	114	119	5	1.12	0.44	-0.68	2.2	0.53	2	2	0	1200	1200	0
7/15/2024 15:27	62105	ELAN_T1	4	4	0	1.58	0.8	-0.78	0	0	0	0	0	0	0	0
7/15/2024 15:27	62101	ELAN_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 15:27	62104	ELAN_T1	6	9	3	0.4	0.54	0.14	1.53	1.53	2	2	0	1500	1500	0
7/15/2024 15:27	62102	ELAN_T1	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
7/15/2024 15:28	11504	FREE_T1	24	28	4	0.65	0.18	-0.47	-1.05	-1.06	2	2	0	2100	2100	0
7/15/2024 15:28	11505	FREE_T1	25	28	3	0.76	0.53	-0.23	0	0	0	0	0	0	0	0
7/15/2024 15:32	29402	BELT_T1	1	1	0	8.6	8.6	0	0	0	0	0	0	0	0	0
7/15/2024 15:32	29401	BELT_T1	25	22	-3	0.57	0.45	-0.12	0	0	0	0	0	0	0	0
7/15/2024 15:33	41902	REED_T1	193	225	32	0.88	0.82	-0.06	0.08	0	1	1	0	900	900	0
7/15/2024 15:33	41903	REED_T1	9	14	5	1.84	1.96	0.12	0	0	0	0	0	0	0	0
7/15/2024 15:33	41901	REED_T1	5	8	3	1.38	0.77	-0.61	0	0	0	0	0	0	0	0
7/15/2024 15:34	48302	ORWI_T2	183	183	0	1.05	1	-0.05	0.39	0.33	0	0	0	0	0	0
7/15/2024 15:34	48303	ORWI_T2	5	4	-1	1.06	1.1	0.04	0	0	0	0	0	0	0	0
7/15/2024 15:34	46301	ROHR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/15/2024 15:34	46302	ROHR_T1	5	7	2	0.7	1.05	0.35	0.55	0.55	0	0	0	0	0	0
7/15/2024 15:35	47402	PENS_T1	5	9	4	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/15/2024 15:35	47401	PENS_T1	20	18	-2	0.6	0.59	-0.01	1.61	1.57	0	0	0	0	0	0
7/15/2024 15:36	46302	ROHR_T1	5	7	2	0.7	1.05	0.35	0.55	0.55	0	0	0	0	0	0
7/15/2024 15:36	46301	ROHR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/15/2024 15:36	41902	REED_T1	193	225	32	0.88	0.82	-0.06	0.08	0	1	1	0	900	900	0
7/15/2024 15:36	41903	REED_T1	9	14	5	1.84	1.96	0.12	0	0	0	0	0	0	0	0
7/15/2024 15:36	41901	REED_T1	5	8	3	1.38	0.77	-0.61	0	0	0	0	0	0	0	0
7/15/2024 15:37	46302	ROHR_T1	5	7	2	0.7	1.05	0.35	0.55	0.55	0	0	0	0	0	0
7/15/2024 15:37	57404	SPAN_T2	9	4	-5	0.51	0	-0.51	-1.65	-1.84	2	2	0	2400	2400	0
7/15/2024 15:37	57402	SPAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 15:37	46301	ROHR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/15/2024 15:38	67502	WEWI_T2	103	129	26	0.9	0.85	-0.05	-0.3	-0.21	1	1	0	900	900	0
7/15/2024 15:38	57402	SPAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 15:38	20603	GRWO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/15/2024 15:38	20601	GRWO_T2	597	483	-114	1.77	1.64	-0.13	0.79	0.7	0	0	0	0	0	0
7/15/2024 15:38	67503	WEWI_T2	138	190	52	0.73	0.76	0.03	0	0	0	0	0	0	0	0
7/15/2024 15:38	57404	SPAN_T2	9	4	-5	0.51	0	-0.51	-0.82	-0.92	1	1	0	1200	1200	0
7/15/2024 15:39	56504	ROCK_T2	124	54	-70	0.57	0.44	-0.13	0.25	0.24	0	0	0	0	0	0
7/15/2024 15:39	57404	SPAN_T2	9	4	-5	0.51	0	-0.51	-0.82	-0.92	1	1	0	1200	1200	0
7/15/2024 15:39	56503	ROCK_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/15/2024 15:39	64101	REFR_T1	29	44	15	1.47	1.18	-0.29	-0.2	-0.16	0	0	0	0	0	0
7/15/2024 15:39	57402	SPAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 15:39	56501	ROCK_T2	8	9	1	0.48	0.1	-0.38	-1.7	-1.73	0	0	0	0	0	0
7/15/2024 15:41	66503	SMAN_T2	12	23	11	0.6	0.65	0.05	0	0	0	0	0	0	0	0
7/15/2024 15:41	67502	WEWI_T2	103	129	26	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
7/15/2024 15:41	66505	SMAN_T2	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
7/15/2024 15:41	67503	WEWI_T2	138	190	52	0.73	0.76	0.03	0.59	0.63	0	0	0	0	0	0
7/15/2024 15:41	66504	SMAN_T2	7	23	16	0.99	0.81	-0.18	0.55	0.55	0	0	0	0	0	0
7/15/2024 15:42	67602	WARW_T2	3	3	0	0.33	0	-0.33	0.17	0.41	2	2	0	1500	1500	0
7/15/2024 15:45	66503	SMAN_T2	21	26	5	0.65	0.98	0.33	0	0	0	0	0	0	0	0
7/15/2024 15:45	66504	SMAN_T2	17	37	20	0.61	0.53	-0.08	1.1	1.1	0	0	0	0	0	0
7/15/2024 15:45	66505	SMAN_T2	1	3	2	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/15/2024 15:46	42902	MIDD_T2	23	26	3	2.52	2.21	-0.31	-0.03	-0.1	1	1	0	600	600	0
7/15/2024 15:46	42903	MIDD_T2	9	19	10	0.29	0.3	0.01	0	0	0	0	0	0	0	0
7/15/2024 15:46	42901	MIDD_T2	31	38	7	0.81	0.8	-0.01	0	0	0	0	0	0	0	0
7/15/2024 15:47	40902	JESH_T1	11	4	-7	0.6	0.97	0.37	-0.7	-1.08	3	3	0	1800	1800	0
7/15/2024 15:47	40901	JESH_T1	3	2	-1	0.87	2.3	1.43	0	0	0	0	0	0	0	0
7/15/2024 15:50	42903	MIDD_T2	9	19	10	0.29	0.3	0.01	0	0	0	0	0	0	0	0
7/15/2024 15:50	42902	MIDD_T2	23	26	3	2.52	2.21	-0.31	-0.03	-0.1	1	1	0	600	600	0
7/15/2024 15:50	42901	MIDD_T2	31	38	7	0.81	0.8	-0.01	0	0	0	0	0	0	0	0
7/15/2024 15:50	44203	POIN_T2	21	42	21	1.32	0.99	-0.33	-0.4	-0.25	3	3	0	3300	3300	0
7/15/2024 15:51	47402	PENS_T1	9	5	-4	0.54	0.6	0.06	0	0	0	0	0	0	0	0
7/15/2024 15:51	47401	PENS_T1	10	22	12	0.76	0.62	-0.14	1.66	1.68	0	0	0	0	0	0
7/15/2024 15:52	57401	SPAN_T1	5	17	12	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
7/15/2024 15:52	57403	SPAN_T1	1	1	0	0.4	0.6	0.2	0.01	0.01	0	0	0	0	0	0
7/15/2024 15:53	67601	WARW_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
7/15/2024 15:53	67602	WARW_T2	0	6	6	0	0.7	0.7	0	0	0	0	0	0	0	0
7/15/2024 15:55	57403	SPAN_T1	1	1	0	0.4	0.6	0.2	0.01	0.01	0	0	0	0	0	0
7/15/2024 15:55	57401	SPAN_T1	5	17	12	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
7/15/2024 15:56	57403	SPAN_T1	1	1	0	0.4	0.6	0.2	0.01	0.01	0	0	0	0	0	0
7/15/2024 15:56	57401	SPAN_T1	5	17	12	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
7/15/2024 16:00	51401	LYKE_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
7/15/2024 16:03	45802	HEGI_T2	154	117	-37	0.83	0.79	-0.04	0.75	0.67	2	2	0	1200	1200	0
7/15/2024 16:04	43202	MVIL_T2	2	2	0	0.95	1.7	0.75	-0.21	-0.21	0	0	0	0	0	0
7/15/2024 16:04	43201	MVIL_T2	1	6	5	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/15/2024 16:05	43202	MVIL_T2	2	2	0	0.95	1.7	0.75	-0.21	-0.21	0	0	0	0	0	0
7/15/2024 16:05	43201	MVIL_T2	1	6	5	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/15/2024 16:07	47402	PENS_T1	4	5	1	0.6	1.48	0.88	0	0	0	0	0	0	0	0
7/15/2024 16:07	47401	PENS_T1	18	18	0	0.66	0.53	-0.13	1.68	1.58	0	0	0	0	0	0
7/15/2024 16:07	67602	WARW_T2	3	9	6	0.7	1.17	0.47	0.64	0.73	2	2	0	1500	1500	0
7/15/2024 16:08	49804	UNIV_T1	1	3	2	1.2	1.7	0.5	0	0	0	0	0	0	0	0
7/15/2024 16:08	49803	UNIV_T1	0	4	4	0	0.2	0.2	-1.36	-1.33	0	0	0	0	0	0
7/15/2024 16:09	67804	WLAN_T1	10	10	0	2.78	2.3	-0.48	0	0	0	0	0	0	0	0
7/15/2024 16:09	59102	WALK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/15/2024 16:09	67803	WLAN_T1	2	2	0	0.2	0.15	-0.05	-0.34	-0.37	0	0	0	0	0	0
7/15/2024 16:09	24102	EHAZ_T1	3	3	0	1.3	0.2	-1.1	-0.55	-0.15	0	0	0	0	0	0
7/15/2024 16:09	67801	WLAN_T1	218	255	37	0.72	0.66	-0.06	0	0	0	0	0	0	0	0
7/15/2024 16:09	59101	WALK_T2	5	1	-4	0.18	0.1	-0.08	0.23	0.12	4	4	0	2400	2400	0
7/15/2024 16:09	24105	EHAZ_T1	4	4	0	5.8	5.83	0.03	0	0	0	0	0	0	0	0
7/15/2024 16:09	24101	EHAZ_T1	23	42	19	0.75	0.87	0.12	0	0	0	0	0	0	0	0
7/15/2024 16:10	59101	WALK_T2	5	1	-4	0.18	0.1	-0.08	0.23	0.12	4	4	0	2400	2400	0
7/15/2024 16:10	59102	WALK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/15/2024 16:10	67602	WARW_T2	3	9	6	0.7	1.17	0.47	1.27	1.47	4	4	0	3000	3000	0
7/15/2024 16:10	10603	BLGL_T1	396	508	112	1.61	1.66	0.05	-0.07	-0.07	0	0	0	0	0	0
7/15/2024 16:10	10601	BLGL_T1	6	21	15	0.55	0.48	-0.07	0	0	0	0	0	0	0	0
7/15/2024 16:11	58001	WCAR_T1	5	1	-4	0.36	0.2	-0.16	-0.63	-0.62	0	0	0	0	0	0
7/15/2024 16:11	58003	WCAR_T1	4	3	-1	0.68	0.57	-0.11	0	0	0	0	0	0	0	0
7/15/2024 16:11	67602	WARW_T2	3	9	6	0.7	1.17	0.47	0.64	0.73	2	2	0	1500	1500	0
7/15/2024 16:12	20401	ASHF_T2	47	93	46	0.63	0.63	0	0	0	0	0	0	0	0	0
7/15/2024 16:12	20402	ASHF_T2	138	252	114	0.74	0.81	0.07	0	0	0	0	0	0	0	0
7/15/2024 16:12	20403	ASHF_T2	66	109	43	0.57	0.6	0.03	0.7	0.41	0	0	0	0	0	0
7/15/2024 16:13	66503	SMAN_T2	23	29	6	0.99	0.96	-0.03	0	0	0	0	0	0	0	0
7/15/2024 16:13	66505	SMAN_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/15/2024 16:13	66504	SMAN_T2	16	38	22	0.59	0.51	-0.08	1.31	1.15	0	0	0	0	0	0
7/15/2024 16:15	12305	LANA_T2	21	31	10	1.25	1.47	0.22	0	0	0	0	0	0	0	0
7/15/2024 16:15	12304	LANA_T2	140	193	53	1.04	1.05	0.01	0	0	0	0	0	0	0	0
7/15/2024 16:15	12302	LANA_T2	23	86	63	0.39	0.41	0.02	-1.16	-1.12	3	3	0	2700	2700	0
7/15/2024 16:15	12301	LANA_T2	4	6	2	0.48	0.5	0.02	0	0	0	0	0	0	0	0
7/15/2024 16:16	51401	LYKE_T1	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
7/15/2024 16:19	52402	GRPA_T2	112	108	-4	1.5	1.71	0.21	0	0	0	0	0	0	0	0
7/15/2024 16:19	52401	GRPA_T2	151	170	19	1.16	1.27	0.11	0	0	0	0	0	0	0	0
7/15/2024 16:19	52404	GRPA_T2	61	76	15	0.62	0.63	0.01	0	0	0	0	0	0	0	0
7/15/2024 16:19	52403	GRPA_T2	273	286	13	2.1	1.56	-0.54	-0.05	-0.08	0	0	0	0	0	0
7/15/2024 16:21	44203	POIN_T2	40	53	13	0.94	0.97	0.03	0	0	0	0	0	0	0	0
7/15/2024 16:21	44202	POIN_T2	0	0	0	0	0	0	-0.53	-0.56	2	2	0	1800	1800	0
7/15/2024 16:22	67602	WARW_T2	6	11	5	1.17	0.83	-0.34	0.73	0.72	2	2	0	1500	1500	0
7/15/2024 16:23	16301	ALPA_T1	5	45	40	0.22	0.35	0.13	1.4	1.42	0	0	0	0	0	0
7/15/2024 16:26	24102	EHAZ_T1	2	3	1	0.2	0.47	0.27	0	0	0	0	0	0	0	0
7/15/2024 16:26	24105	EHAZ_T1	4	4	0	5.83	6	0.17	-1.65	-1.63	1	1	0	1200	1200	0
7/15/2024 16:26	16006	DORN_T2	61	87	26	1.5	1.61	0.11	0	0	0	0	0	0	0	0
7/15/2024 16:26	16002	DORN_T2	118	142	24	1.22	1.25	0.03	0.51	0.53	1	1	0	1200	1200	0
7/15/2024 16:26	24101	EHAZ_T1	29	44	15	0.79	0.8	0.01	0	0	0	0	0	0	0	0
7/15/2024 16:31	12301	LANA_T2	5	10	5	0.84	0.6	-0.24	0	0	0	0	0	0	0	0
7/15/2024 16:31	12305	LANA_T2	27	25	-2	1.15	1.13	-0.02	0	0	0	0	0	0	0	0
7/15/2024 16:31	12304	LANA_T2	181	215	34	1.16	1.02	-0.14	0	0	0	0	0	0	0	0
7/15/2024 16:31	12302	LANA_T2	41	106	65	0.38	0.43	0.05	-1.12	-1.17	3	3	0	2700	2700	0
7/15/2024 16:32	51401	LYKE_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
7/15/2024 16:33	59003	MIFF_T1	253	261	8	1.66	1.89	0.23	0.15	0.02	0	0	0	0	0	0
7/15/2024 16:33	47401	PENS_T1	7	27	20	0.47	0.48	0.01	1.58	1.74	0	0	0	0	0	0
7/15/2024 16:33	47402	PENS_T1	5	10	5	1.48	1.63	0.15	0	0	0	0	0	0	0	0
7/15/2024 16:33	52403	GRPA_T2	272	278	6	2.19	1.78	-0.41	0	0	0	0	0	0	0	0
7/15/2024 16:33	48301	ORWI_T1	179	274	95	0.53	0.55	0.02	1.2	1.17	0	0	0	0	0	0
7/15/2024 16:33	52401	GRPA_T2	150	211	61	1.38	1.23	-0.15	-0.38	-0.4	0	0	0	0	0	0
7/15/2024 16:33	52402	GRPA_T2	105	108	3	2.09	1.29	-0.8	0	0	0	0	0	0	0	0
7/15/2024 16:33	52404	GRPA_T2	65	92	27	0.62	0.82	0.2	0	0	0	0	0	0	0	0
7/15/2024 16:33	59002	MIFF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 16:36	59003	MIFF_T1	253	261	8	1.66	1.89	0.23	0.15	0.02	0	0	0	0	0	0
7/15/2024 16:36	59002	MIFF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 16:37	42201	SHEN_T2	0	0	0	0	0	0	0.44	0.39	1	1	0	600	600	0
7/15/2024 16:41	42201	SHEN_T2	0	0	0	0	0	0	0.44	0.39	1	1	0	600	600	0
7/15/2024 16:44	63304	GREE_T1	0	0	0	0	0	0	-2.72	-2.85	1	1	0	1200	1200	0
7/15/2024 16:45	63304	GREE_T1	0	0	0	0	0	0	-2.72	-2.85	1	1	0	1200	1200	0
7/15/2024 16:48	47402	PENS_T1	6	13	7	1.75	1.81	0.06	0	0	0	0	0	0	0	0
7/15/2024 16:48	51004	NHAR_T1	2	5	3	3.75	2.1	-1.65	0	0	0	0	0	0	0	0
7/15/2024 16:48	47401	PENS_T1	25	15	-10	0.51	0.52	0.01	0.87	0.8	0	0	0	0	0	0
7/15/2024 16:48	51003	NHAR_T1	2	6	4	0.1	0	-0.1	-1.72	-1.76	1	1	0	1200	1200	0
7/15/2024 16:49	55001	NEWP_T1	119	163	44	1.44	1.36	-0.08	0.21	0.18	0	0	0	0	0	0
7/15/2024 16:49	47401	PENS_T1	25	15	-10	0.51	0.52	0.01	2.6	2.41	0	0	0	0	0	0
7/15/2024 16:49	58203	NEWV_T2	139	163	24	2.96	2.77	-0.19	-0.59	-0.58	0	0	0	0	0	0
7/15/2024 16:49	47402	PENS_T1	6	13	7	1.75	1.81	0.06	0	0	0	0	0	0	0	0
7/15/2024 16:50	27603	PIRI_T2	6	6	0	1.2	1.55	0.35	0	0	0	0	0	0	0	0
7/15/2024 16:50	47402	PENS_T1	6	13	7	1.75	1.81	0.06	0	0	0	0	0	0	0	0
7/15/2024 16:50	27605	PIRI_T2	1201	1231	30	1.5	1.28	-0.22	1.84	2	0	0	0	0	0	0
7/15/2024 16:50	55001	NEWP_T1	119	163	44	1.44	1.36	-0.08	0.21	0.18	0	0	0	0	0	0
7/15/2024 16:50	47401	PENS_T1	25	15	-10	0.51	0.52	0.01	0.87	0.8	0	0	0	0	0	0
7/15/2024 16:52	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 16:52	42201	SHEN_T2	0	0	0	0	0	0	0.39	0.39	1	1	0	600	600	0
7/15/2024 16:53	42201	SHEN_T2	0	0	0	0	0	0	0.39	0.39	1	1	0	600	600	0
7/15/2024 16:53	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 16:55	15001	BLMO_T1	104	114	10	0.43	0.42	-0.01	0	0	0	0	0	0	0	0
7/15/2024 16:56	15001	BLMO_T1	104	114	10	0.43	0.42	-0.01	0	0	0	0	0	0	0	0
7/15/2024 16:57	11001	EGRE_T1	5	2	-3	0.34	0.6	0.26	0.41	0.39	1	1	0	1200	1200	0
7/15/2024 16:58	15001	BLMO_T1	104	114	10	0.43	0.42	-0.01	0	0	0	0	0	0	0	0
7/15/2024 16:59	12003	HATF_T1	6	6	0	0.5	0.53	0.03	0	0	0	0	0	0	0	0
7/15/2024 16:59	12006	HATF_T1	0	0	0	0	0	0	-0.18	-0.28	3	3	0	3600	3600	0
7/15/2024 16:59	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 16:59	12001	HATF_T1	27	28	1	0.76	0.49	-0.27	0	0	0	0	0	0	0	0
7/15/2024 17:04	64902	MILL_T2	0	0	0	0	0	0	-0.13	-0.11	1	1	0	900	900	0
7/15/2024 17:04	64903	MILL_T2	6	25	19	0.13	0.27	0.14	0	0	0	0	0	0	0	0
7/15/2024 17:06	56501	ROCK_T2	7	16	9	0.43	0.51	0.08	-1.6	-1.6	0	0	0	0	0	0
7/15/2024 17:06	56504	ROCK_T2	64	122	58	0.98	0.81	-0.17	0	0	0	0	0	0	0	0
7/15/2024 17:07	56504	ROCK_T2	64	122	58	0.98	0.81	-0.17	0	0	0	0	0	0	0	0
7/15/2024 17:07	56501	ROCK_T2	7	16	9	0.43	0.51	0.08	-1.6	-1.58	0	0	0	0	0	0
7/15/2024 17:07	57403	SPAN_T1	2	9	7	1.5	0.58	-0.92	0	0	0	0	0	0	0	0
7/15/2024 17:07	57401	SPAN_T1	5	6	1	1.86	1.32	-0.54	-1.3	-1.26	2	2	0	1500	1500	0
7/15/2024 17:08	56504	ROCK_T2	64	122	58	0.98	0.81	-0.17	0	0	0	0	0	0	0	0
7/15/2024 17:08	56501	ROCK_T2	7	16	9	0.43	0.51	0.08	-1.6	-1.58	0	0	0	0	0	0
7/15/2024 17:09	56504	ROCK_T2	64	122	58	0.98	0.81	-0.17	0	0	0	0	0	0	0	0
7/15/2024 17:09	45302	WBER_T2	35	40	5	0.78	0.83	0.05	1.82	1.81	0	0	0	0	0	0
7/15/2024 17:09	56501	ROCK_T2	7	16	9	0.43	0.51	0.08	-1.6	-1.58	0	0	0	0	0	0
7/15/2024 17:10	45302	WBER_T2	35	40	5	0.78	0.83	0.05	1.82	1.81	0	0	0	0	0	0
7/15/2024 17:11	56501	ROCK_T2	7	16	9	0.43	0.51	0.08	-1.6	-1.58	0	0	0	0	0	0
7/15/2024 17:11	67804	WLAN_T1	10	10	0	2.3	1.62	-0.68	0	0	0	0	0	0	0	0
7/15/2024 17:11	67801	WLAN_T1	54	77	23	0.66	0.21	-0.45	0	0	0	0	0	0	0	0
7/15/2024 17:11	56504	ROCK_T2	64	122	58	0.98	0.81	-0.17	0	0	0	0	0	0	0	0
7/15/2024 17:11	57401	SPAN_T1	5	6	1	1.86	1.32	-0.54	-1.3	-1.26	2	2	0	1500	1500	0
7/15/2024 17:11	57403	SPAN_T1	2	9	7	1.5	0.58	-0.92	0	0	0	0	0	0	0	0
7/15/2024 17:11	67803	WLAN_T1	0	1	1	0	0	0	-0.41	-0.4	0	0	0	0	0	0
7/15/2024 17:12	57401	SPAN_T1	5	6	1	1.86	1.32	-0.54	-1.3	-1.26	2	2	0	1500	1500	0
7/15/2024 17:12	67803	WLAN_T1	0	1	1	0	0	0	-0.41	-0.4	0	0	0	0	0	0
7/15/2024 17:12	57403	SPAN_T1	2	9	7	1.5	0.58	-0.92	0	0	0	0	0	0	0	0
7/15/2024 17:12	67801	WLAN_T1	54	77	23	0.66	0.21	-0.45	0	0	0	0	0	0	0	0
7/15/2024 17:12	67804	WLAN_T1	10	10	0	2.3	1.62	-0.68	0	0	0	0	0	0	0	0
7/15/2024 17:18	47101	MARL_T1	440	425	-15	1.32	1.31	-0.01	-2.01	-2.14	2	2	0	1200	1200	0
7/15/2024 17:18	47104	MARL_T1	49	43	-6	1.12	1.38	0.26	0	0	0	0	0	0	0	0
7/15/2024 17:19	58703	ROSE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 17:19	58705	ROSE_T2	6	11	5	0.43	0.63	0.2	0	0	0	0	0	0	0	0
7/15/2024 17:19	58706	ROSE_T2	14	16	2	0.94	0.74	-0.2	0	0	0	0	0	0	0	0
7/15/2024 17:19	58701	ROSE_T2	3	13	10	0.4	0.54	0.14	-1.18	-1.19	1	1	0	600	600	0
7/15/2024 17:19	58702	ROSE_T2	4	6	2	0.13	0.15	0.02	0	0	0	0	0	0	0	0
7/15/2024 17:20	42701	AUGU_T1	94	102	8	3.02	3.11	0.09	0	0	2	2	0	1800	1800	0
7/15/2024 17:20	52006	LING_T2	6	6	0	1.65	1.73	0.08	0	0	0	0	0	0	0	0
7/15/2024 17:20	52004	LING_T2	5	7	2	1.16	1.37	0.21	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/15/2024 17:20	52002	LING_T2	25	51	26	0.32	0.39	0.07	-0.02	-0.01	1	1	0	900	900	0
7/15/2024 17:21	64101	REFR_T1	1	1	0	0.6	0	-0.6	-0.36	-0.43	0	0	0	0	0	0
7/15/2024 17:21	49803	UNIV_T1	3	32	29	0.63	0.31	-0.32	-1.28	-1.33	0	0	0	0	0	0
7/15/2024 17:21	49804	UNIV_T1	5	26	21	0.72	0.69	-0.03	0	0	0	0	0	0	0	0
7/15/2024 17:22	64101	REFR_T1	1	1	0	0.6	0	-0.6	-0.72	-0.85	0	0	0	0	0	0
7/15/2024 17:23	64101	REFR_T1	1	1	0	0.6	0	-0.6	-0.72	-0.85	0	0	0	0	0	0
7/15/2024 17:24	58401	MORO_T1	11	48	37	0.43	0.5	0.07	0	0	0	0	0	0	0	0
7/15/2024 17:24	58402	MORO_T1	8	13	5	0.88	0.65	-0.23	-1.14	-1.13	5	5	0	3150	3150	0
7/15/2024 17:25	41602	CLEV_T1	165	188	23	1.45	1.44	-0.01	0	0	1	1	0	600	600	0
7/15/2024 17:25	64101	REFR_T1	1	1	0	0.6	0	-0.6	-1.08	-1.28	0	0	0	0	0	0
7/15/2024 17:26	64101	REFR_T1	1	1	0	0.6	0	-0.6	-0.36	-0.43	0	0	0	0	0	0
7/15/2024 17:30	40101	HUNT_T2	769	760	-9	1.5	1.29	-0.21	-1.03	-1.05	0	0	0	0	0	0
7/15/2024 17:31	64203	KINZ_T1	1	6	5	1.2	1.05	-0.15	-1.03	-0.99	3	3	0	2100	2100	0
7/15/2024 17:31	64202	KINZ_T1	1	23	22	0.4	0.53	0.13	0	0	0	0	0	0	0	0
7/15/2024 17:31	64204	KINZ_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/15/2024 17:31	64201	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 17:32	48302	ORWI_T2	382	345	-37	1.41	1.22	-0.19	0.38	0.34	0	0	0	0	0	0
7/15/2024 17:32	64203	KINZ_T1	1	6	5	1.2	1.05	-0.15	-1.03	-0.99	3	3	0	2100	2100	0
7/15/2024 17:32	64201	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 17:32	48303	ORWI_T2	8	6	-2	0.76	0	-0.76	0	0	0	0	0	0	0	0
7/15/2024 17:32	64204	KINZ_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/15/2024 17:32	64202	KINZ_T1	1	23	22	0.4	0.53	0.13	0	0	0	0	0	0	0	0
7/15/2024 17:34	48302	ORWI_T2	382	345	-37	1.41	1.22	-0.19	0.76	0.68	0	0	0	0	0	0
7/15/2024 17:34	48303	ORWI_T2	8	6	-2	0.76	0	-0.76	0	0	0	0	0	0	0	0
7/15/2024 17:36	62102	ELAN_T1	6	8	2	0.37	0	-0.37	0.27	0.28	0	0	0	0	0	0
7/15/2024 17:36	62105	ELAN_T1	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/15/2024 17:36	62104	ELAN_T1	10	10	0	0.87	0.56	-0.31	0	0	0	0	0	0	0	0
7/15/2024 17:37	48303	ORWI_T2	8	6	-2	0.76	0	-0.76	1.07	1.15	0	0	0	0	0	0
7/15/2024 17:37	48302	ORWI_T2	382	345	-37	1.41	1.22	-0.19	0	0	0	0	0	0	0	0
7/15/2024 17:39	67801	WLAN_T1	48	37	-11	0.22	0.25	0.03	-0.77	-0.87	0	0	0	0	0	0
7/15/2024 17:39	67804	WLAN_T1	10	10	0	1.62	1.31	-0.31	0	0	0	0	0	0	0	0
7/15/2024 17:43	15204	SFAR_T2	27	20	-7	1.21	0.74	-0.47	0	0	0	0	0	0	0	0
7/15/2024 17:43	15203	SFAR_T2	42	41	-1	0.74	0.7	-0.04	0	0	0	0	0	0	0	0
7/15/2024 17:51	27603	PIRI_T2	4	3	-1	0.6	1.37	0.77	0	0	0	0	0	0	0	0
7/15/2024 17:51	65602	QVIL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
7/15/2024 17:51	27605	PIRI_T2	948	911	-37	1.48	1.21	-0.27	1.75	1.77	0	0	0	0	0	0
7/15/2024 17:51	65604	QVIL_T2	13	4	-9	0.52	1.7	1.18	0	0	0	0	0	0	0	0
7/15/2024 17:51	65601	QVIL_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
7/15/2024 17:51	65603	QVIL_T2	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
7/15/2024 17:53	65604	QVIL_T2	13	4	-9	0.52	1.7	1.18	0.75	0.77	0	0	0	0	0	0
7/15/2024 17:53	65601	QVIL_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
7/15/2024 17:53	65602	QVIL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
7/15/2024 17:54	13902	SEID_T1	9	17	8	0.66	0.38	-0.28	0	0	0	0	0	0	0	0
7/15/2024 17:54	13903	SEID_T1	88	84	-4	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
7/15/2024 17:54	13904	SEID_T1	94	124	30	1.54	1.14	-0.4	-0.53	-0.5	0	0	0	0	0	0
7/15/2024 17:55	13904	SEID_T1	94	124	30	1.54	1.14	-0.4	-0.26	-0.25	0	0	0	0	0	0
7/15/2024 17:55	46206	DANV_T2	140	175	35	1.08	0.89	-0.19	1.85	1.81	2	2	0	2100	2100	0
7/15/2024 17:55	46205	DANV_T2	15	17	2	0.51	0.73	0.22	0	0	0	0	0	0	0	0
7/15/2024 17:55	13902	SEID_T1	9	17	8	0.66	0.38	-0.28	0	0	0	0	0	0	0	0
7/15/2024 17:55	13903	SEID_T1	88	84	-4	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
7/15/2024 17:55	46204	DANV_T2	129	132	3	1.39	0.87	-0.52	0	0	0	0	0	0	0	0
7/15/2024 17:55	46203	DANV_T2	52	73	21	0.66	0.58	-0.08	0	0	0	0	0	0	0	0
7/15/2024 17:57	46204	DANV_T2	129	132	3	1.39	0.87	-0.52	0	0	0	0	0	0	0	0
7/15/2024 17:57	46206	DANV_T2	140	175	35	1.08	0.89	-0.19	1.85	1.81	2	2	0	2100	2100	0
7/15/2024 17:57	46203	DANV_T2	52	73	21	0.66	0.58	-0.08	0	0	0	0	0	0	0	0
7/15/2024 17:57	46205	DANV_T2	15	17	2	0.51	0.73	0.22	0	0	0	0	0	0	0	0
7/15/2024 18:04	55003	NEWP_T2	1	2	1	0.3	0.8	0.5	-0.75	-0.12	1	0	-1	600	0	-600
7/15/2024 18:06	57702	PAXT_T1	2	6	4	0.3	0.18	-0.12	-0.12	-0.11	0	0	0	0	0	0
7/15/2024 18:10	60201	ATGL_T2	20	24	4	0.26	0.26	0	-0.02	-0.04	2	2	0	900	900	0
7/15/2024 18:18	26401	INOR_T1	100	73	-27	0.74	0.52	-0.22	1.56	1.55	0	0	0	0	0	0
7/15/2024 18:18	26402	INOR_T1	130	111	-19	0.92	0.63	-0.29	0	0	0	0	0	0	0	0
7/15/2024 18:19	61402	SLIT_T1	6	16	10	0.32	0.22	-0.1	0	0	0	0	0	0	0	0
7/15/2024 18:19	61404	SLIT_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
7/15/2024 18:24	60301	TWVA_T2	11	17	6	0.85	0.77	-0.08	-2.22	-2.23	2	2	0	1800	1800	0
7/15/2024 18:28	11104	EGYP_T1	12	14	2	1.32	1.36	0.04	0	0	0	0	0	0	0	0
7/15/2024 18:28	11101	EGYP_T1	4	5	1	0.8	0.9	0.1	0.1	0.13	1	1	0	1200	1200	0
7/15/2024 18:28	40101	HUNT_T2	581	658	77	1.16	1.18	0.02	-1.08	-1.05	0	0	0	0	0	0
7/15/2024 18:28	11102	EGYP_T1	21	22	1	1.51	0.92	-0.59	0	0	0	0	0	0	0	0
7/15/2024 18:33	40101	HUNT_T2	594	639	45	1.21	1	-0.21	-1.08	-1.05	0	0	0	0	0	0
7/15/2024 18:37	48301	ORWI_T1	136	158	22	0.45	0.42	-0.03	1.31	1.22	0	0	0	0	0	0
7/15/2024 18:37	64101	REFR_T1	2	8	6	0.6	0.35	-0.25	-0.32	-0.31	0	0	0	0	0	0
7/15/2024 18:41	22002	BOHE_T1	0	0	0	0	0	0	0.91	0.87	0	0	0	0	0	0
7/15/2024 18:41	40101	HUNT_T2	594	639	45	1.21	1	-0.21	-1.05	-1.1	0	0	0	0	0	0
7/15/2024 18:43	15203	SFAR_T2	19	18	-1	0.6	0.46	-0.14	0	0	2	2	0	2400	2400	0
7/15/2024 18:43	15204	SFAR_T2	14	15	1	2.69	2.55	-0.14	0	0	0	0	0	0	0	0
7/15/2024 18:43	24105	EHAZ_T1	4	4	0	6.18	5.75	-0.43	0	0	0	0	0	0	0	0
7/15/2024 18:43	24101	EHAZ_T1	29	29	0	1.21	0.88	-0.33	0	0	0	0	0	0	0	0
7/15/2024 18:43	24102	EHAZ_T1	25	26	1	2.9	0.73	-2.17	1.17	0.65	0	0	0	0	0	0
7/15/2024 18:46	63803	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/15/2024 18:46	63804	HEMP_T1	1	1	0	7.4	7.6	0.2	0.37	0.39	0	0	0	0	0	0
7/15/2024 18:49	23401	HONE_T2	98	168	70	0.5	0.47	-0.03	0.35	0.31	0	0	0	0	0	0
7/15/2024 18:50	46102	MACI_T1	0	0	0	0	0	0	1.11	1.12	0	0	0	0	0	0
7/15/2024 18:56	60801	BUCK_T1	0	0	0	0	0	0	0.72	0.7	0	0	0	0	0	0
7/15/2024 19:00	61701	ELIZ_T1	1	1	0	2.3	3.3	1	3.17	3.54	0	0	0	0	0	0
7/15/2024 19:08	55102	WERT_T2	2	0	-2	0.15	0	-0.15	-0.59	-0.65	1	1	0	600	600	0
7/15/2024 19:10	55102	WERT_T2	2	0	-2	0.15	0	-0.15	-0.59	-0.65	1	1	0	600	600	0
7/15/2024 19:11	10702	CATA_T2	11	9	-2	1.2	0.98	-0.22	0	0	0	0	0	0	0	0
7/15/2024 19:11	10704	CATA_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
7/15/2024 19:11	10705	CATA_T2	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/15/2024 19:11	10701	CATA_T2	4	8	4	0.43	0.1	-0.33	-1.12	-1.14	1	1	0	1200	1200	0
7/15/2024 19:25	57403	SPAN_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/15/2024 19:25	57401	SPAN_T1	12	7	-5	0.89	1.05	0.16	0	0	0	0	0	0	0	0
7/15/2024 19:31	52402	GRPA_T2	81	95	14	0.7	0.64	-0.06	0	0	0	0	0	0	0	0
7/15/2024 19:31	52404	GRPA_T2	34	26	-8	0.69	0.55	-0.14	0	0	0	0	0	0	0	0
7/15/2024 19:31	52401	GRPA_T2	183	114	-69	0.98	0.75	-0.23	-0.38	-0.39	0	0	0	0	0	0
7/15/2024 19:31	52403	GRPA_T2	165	129	-36	1.91	1.65	-0.26	0	0	0	0	0	0	0	0
7/15/2024 19:34	41903	REED_T1	0	0	0	0	0	0	0.83	0.83	1	1	0	1200	1200	0
7/15/2024 19:34	41902	REED_T1	219	159	-60	1.5	0.71	-0.79	0	0	0	0	0	0	0	0
7/15/2024 19:34	41901	REED_T1	23	35	12	0.5	0.36	-0.14	0	0	0	0	0	0	0	0
7/15/2024 19:40	49803	UNIV_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/15/2024 19:40	49804	UNIV_T1	6	4	-2	0.68	0.75	0.07	0.59	0.59	0	0	0	0	0	0
7/15/2024 19:42	46001	BERW_T1	1	0	-1	0.4	0	-0.4	0.73	0.63	0	0	0	0	0	0
7/15/2024 19:45	52004	LING_T2	1	3	2	1.2	0.95	-0.25	0.48	0.45	0	0	0	0	0	0
7/15/2024 19:45	52006	LING_T2	5	0	-5	1.18	0	-1.18	0	0	0	0	0	0	0	0
7/15/2024 19:56	25503	MADI_T1	20	6	-14	0.93	0.42	-0.51	-0.36	-0.44	0	0	0	0	0	0
7/15/2024 19:56	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 19:56	25501	MADI_T1	3	172	169	0.3	6.85	6.55	0	0	0	0	0	0	0	0
7/15/2024 19:56	40502	CRES_T2	343	254	-89	0.86	0.81	-0.05	0.4	0.38	0	0	0	0	0	0
7/15/2024 20:02	23401	HONE_T2	39	0	-39	0.42	0	-0.42	0.07	-0.33	0	0	0	0	0	0
7/15/2024 20:04	23401	HONE_T2	39	0	-39	0.42	0	-0.42	0.07	-0.33	0	0	0	0	0	0
7/15/2024 20:08	64101	REFR_T1	2	10	8	0.35	0.25	-0.1	0.05	0.11	0	0	0	0	0	0
7/15/2024 20:11	44601	SALE_T2	0	0	0	0	0	0	0.37	0.32	0	0	0	0	0	0
7/15/2024 20:12	54503	ENOL_T2	1	0	-1	1.4	1.2	-0.2	-1.35	-1.36	1	1	0	600	600	0
7/15/2024 20:12	44601	SALE_T2	0	0	0	0	0	0	0.37	0.32	0	0	0	0	0	0
7/15/2024 20:14	61102	BERK_T5	0	0	0	0	0	0	-0.22	-0.28	2	2	0	1500	1500	0
7/15/2024 20:14	61101	BERK_T5	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/15/2024 20:17	26401	INOR_T1	163	9	-154	0.81	3.75	2.94	1.4	1.19	0	0	0	0	0	0
7/15/2024 20:24	56802	BENV_T2	0	0	0	0	0	0	-0.42	-0.47	0	0	0	0	0	0
7/15/2024 20:24	43304	WATS_T2	37	102	65	0.71	0.79	0.08	-0.91	-0.94	1	1	0	600	600	0
7/15/2024 20:28	40502	CRES_T2	204	181	-23	0.78	0.85	0.07	0.38	0.35	0	0	0	0	0	0
7/15/2024 20:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 20:32	64203	KINZ_T1	0	0	0	0	0	0	-1.04	-1.13	3	3	0	2100	2100	0
7/15/2024 20:32	64201	KINZ_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
7/15/2024 20:32	64202	KINZ_T1	9	5	-4	0.54	0.6	0.06	0	0	0	0	0	0	0	0
7/15/2024 20:32	64204	KINZ_T1	3	3	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/15/2024 20:33	64204	KINZ_T1	3	3	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/15/2024 20:33	64201	KINZ_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
7/15/2024 20:33	64203	KINZ_T1	0	0	0	0	0	0	-1.04	-1.13	3	3	0	2100	2100	0
7/15/2024 20:33	64202	KINZ_T1	9	5	-4	0.54	0.6	0.06	0	0	0	0	0	0	0	0
7/15/2024 20:36	12301	LANA_T2	11	8	-3	1.39	0.5	-0.89	-0.62	-0.64	1	1	0	1200	1200	0
7/15/2024 20:36	12302	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 20:36	12305	LANA_T2	8	7	-1	1.43	1.44	0.01	0	0	0	0	0	0	0	0
7/15/2024 20:36	12304	LANA_T2	52	47	-5	0.59	0.61	0.02	0	0	0	0	0	0	0	0
7/15/2024 20:46	56501	ROCK_T2	8	16	8	0.16	0.17	0.01	-1.86	-1.85	0	0	0	0	0	0
7/15/2024 20:46	56503	ROCK_T2	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
7/15/2024 20:46	56504	ROCK_T2	8	10	2	0.19	1.15	0.96	0	0	0	0	0	0	0	0
7/15/2024 21:06	55105	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 21:06	55101	WERT_T1	0	0	0	0	0	0	-2.28	-2.54	4	4	0	3300	3300	0
7/15/2024 21:08	55101	WERT_T1	0	0	0	0	0	0	-5.08	-5.34	8	8	0	6600	6600	0
7/15/2024 21:08	55105	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 21:10	55105	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 21:10	55101	WERT_T1	0	0	0	0	0	0	-2.54	-2.67	4	4	0	3300	3300	0
7/15/2024 21:11	55101	WERT_T1	0	0	0	0	0	0	-12.7	-13.35	20	20	0	16500	16500	0
7/15/2024 21:11	55105	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 21:40	44301	BEAV_T2	14	15	1	0.6	0.68	0.08	0.34	0.2	1	1	0	600	600	0
7/15/2024 21:41	66505	SMAN_T2	6	28	22	0.4	0.53	0.13	0	0	0	0	0	0	0	0
7/15/2024 21:41	66504	SMAN_T2	1	1	0	0.6	0.2	-0.4	-0.01	-0.14	0	0	0	0	0	0
7/15/2024 21:56	56803	BENV_T1	4	4	0	5.8	4.28	-1.52	0.41	0.31	0	0	0	0	0	0
7/15/2024 21:56	56801	BENV_T1	3	6	3	0.43	0.56	0.13	0	0	0	0	0	0	0	0
7/15/2024 22:03	64903	MILL_T2	3	14	11	0.23	0.19	-0.04	0	0	0	0	0	0	0	0
7/15/2024 22:03	64902	MILL_T2	0	0	0	0	0	0	-0.49	-0.5	1	1	0	900	900	0
7/15/2024 22:11	10602	BLGL_T2	1	1	0	7.7	7.4	-0.3	-0.13	-0.16	0	0	0	0	0	0
7/15/2024 22:17	10601	BLGL_T1	5	5	0	1.22	0.25	-0.97	0	0	0	0	0	0	0	0
7/15/2024 22:17	10603	BLGL_T1	117	80	-37	0.94	0.57	-0.37	-0.57	-0.59	0	0	0	0	0	0
7/15/2024 22:22	13903	SEID_T1	48	36	-12	0.91	0.67	-0.24	0	0	0	0	0	0	0	0
7/15/2024 22:22	13904	SEID_T1	63	55	-8	1.03	0.86	-0.17	-0.37	-0.38	0	0	0	0	0	0
7/15/2024 22:22	13902	SEID_T1	1	4	3	0.1	0.15	0.05	0	0	0	0	0	0	0	0
7/15/2024 22:22	60701	BREC_T1	0	0	0	0	0	0	-0.52	-0.57	2	2	0	1200	1200	0
7/15/2024 22:24	24101	EHAZ_T1	18	20	2	0.81	0.65	-0.16	0	0	0	0	0	0	0	0
7/15/2024 22:24	24105	EHAZ_T1	4	4	0	5.7	5.6	-0.1	-1.84	-1.8	1	1	0	1200	1200	0
7/15/2024 22:24	24102	EHAZ_T1	26	27	1	1.26	1.05	-0.21	0	0	0	0	0	0	0	0
7/15/2024 22:24	67703	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	2	2	0	1800	1800	0
7/15/2024 22:25	65604	QVIL_T2	0	0	0	0	0	0	1	0.96	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/15/2024 22:26	64204	KINZ_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
7/15/2024 22:26	64203	KINZ_T1	0	0	0	0	0	0	0.24	0.26	1	1	0	600	600	0
7/15/2024 22:27	29402	BELT_T1	1	1	0	8.8	8.8	0	0	0	0	0	0	0	0	0
7/15/2024 22:27	12701	MACU_T1	0	0	0	0	0	0	-0.67	-0.71	1	1	0	1200	1200	0
7/15/2024 22:27	67502	WEWI_T2	0	0	0	0	0	0	-0.72	-0.7	1	1	0	900	900	0
7/15/2024 22:27	62104	ELAN_T1	2	0	-2	0.15	0	-0.15	0.55	0.44	2	2	0	1500	1500	0
7/15/2024 22:27	62105	ELAN_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
7/15/2024 22:27	64204	KINZ_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
7/15/2024 22:27	65001	NEFF_T2	0	0	0	0	0	0	-0.11	-0.2	1	1	0	1200	1200	0
7/15/2024 22:27	65802	RTWN_T2	0	0	0	0	0	0	-0.21	-0.31	0	0	0	0	0	0
7/15/2024 22:27	64201	KINZ_T1	0	0	0	0	0	0	-0.11	-0.11	3	3	0	1500	1500	0
7/15/2024 22:27	13303	ORVI_T1	0	0	0	0	0	0	0.24	-0.04	0	0	0	0	0	0
7/15/2024 22:28	13904	SEID_T1	63	55	-8	1.03	0.86	-0.17	-0.37	-0.38	0	0	0	0	0	0
7/15/2024 22:28	11507	FREE_T2	9	47	38	0.79	0.51	-0.28	0.81	0.93	1	1	0	600	600	0
7/15/2024 22:28	12304	LANA_T2	3	4	1	0.83	0.1	-0.73	0	0	0	0	0	0	0	0
7/15/2024 22:28	11101	EGYP_T1	0	0	0	0	0	0	-0.2	-0.26	1	1	0	1200	1200	0
7/15/2024 22:28	24902	WHHA_T1	9	4	-5	0.74	0.27	-0.47	0.48	0.49	0	0	0	0	0	0
7/15/2024 22:28	64204	KINZ_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
7/15/2024 22:28	13902	SEID_T1	1	4	3	0.1	0.15	0.05	0	0	0	0	0	0	0	0
7/15/2024 22:28	13903	SEID_T1	48	36	-12	0.91	0.67	-0.24	0	0	0	0	0	0	0	0
7/15/2024 22:28	64201	KINZ_T1	0	0	0	0	0	0	-0.11	-0.11	3	3	0	1500	1500	0
7/15/2024 22:28	11102	EGYP_T1	8	11	3	0.43	0.5	0.07	0	0	0	0	0	0	0	0
7/15/2024 22:28	60701	BREC_T1	0	0	0	0	0	0	-0.52	-0.57	2	2	0	1200	1200	0
7/15/2024 22:28	60301	TWVA_T2	0	0	0	0	0	0	-2.37	-2.38	2	2	0	1800	1800	0
7/15/2024 22:28	12302	LANA_T2	0	0	0	0	0	0	-1.7	-1.74	3	3	0	2700	2700	0
7/15/2024 22:28	12305	LANA_T2	2	3	1	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/15/2024 22:28	11104	EGYP_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/15/2024 22:29	11104	EGYP_T1	1	1	0	0.6	0	-0.6	0.02	-0.01	0	0	0	0	0	0
7/15/2024 22:29	67605	WARW_T1	1	3	2	1.2	0.63	-0.57	-0.63	-0.7	0	0	0	0	0	0
7/15/2024 22:29	11102	EGYP_T1	8	11	3	0.43	0.5	0.07	0	0	0	0	0	0	0	0
7/15/2024 22:29	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:29	29402	BELT_T1	1	1	0	8.8	8.8	0	0	0	0	0	0	0	0	0
7/15/2024 22:30	62102	ELAN_T1	0	0	0	0	0	0	-0.39	-0.46	0	0	0	0	0	0
7/15/2024 22:30	22901	HARW_T1	18	3	-15	0.23	0	-0.23	-0.03	-0.24	1	1	0	1200	1200	0
7/15/2024 22:30	20402	ASHF_T2	14	8	-6	0.99	0.37	-0.62	0	0	0	0	0	0	0	0
7/15/2024 22:30	22905	HARW_T1	63	50	-13	0.9	0.69	-0.21	0	0	0	0	0	0	0	0
7/15/2024 22:30	13503	MCMI_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
7/15/2024 22:30	20403	ASHF_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/15/2024 22:30	22903	HARW_T1	13	7	-6	0.91	0.34	-0.57	0	0	0	0	0	0	0	0
7/15/2024 22:30	67605	WARW_T1	1	3	2	0.7	0.9	0.2	0	0	0	0	0	0	0	0
7/15/2024 22:30	62105	ELAN_T1	2	4	2	0.15	1.78	1.63	0	0	0	0	0	0	0	0
7/15/2024 22:30	20401	ASHF_T2	2	2	0	0.85	0.45	-0.4	-0.29	-0.25	1	1	0	600	600	0
7/15/2024 22:30	67603	WARW_T1	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
7/15/2024 22:31	10705	CATA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 22:31	10701	CATA_T2	0	0	0	0	0	0	-1.28	-1.3	1	1	0	1200	1200	0
7/15/2024 22:31	16302	ALPA_T2	0	0	0	0	0	0	0.2	0.11	0	0	0	0	0	0
7/15/2024 22:31	15701	TANN_T1	1	1	0	4.6	5	0.4	0	0	0	0	0	0	0	0
7/15/2024 22:31	10704	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:31	48303	ORWI_T2	0	0	0	0	0	0	0.81	0.78	0	0	0	0	0	0
7/15/2024 22:31	20601	GRWO_T2	43	14	-29	0.43	0.53	0.1	0.24	0.21	0	0	0	0	0	0
7/15/2024 22:31	60801	BUCK_T1	11	1	-10	0.18	0.1	-0.08	0.13	0.12	0	0	0	0	0	0
7/15/2024 22:31	15203	SFAR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/15/2024 22:31	15704	TANN_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/15/2024 22:31	64904	MILL_T1	0	0	0	0	0	0	-0.53	-0.64	0	0	0	0	0	0
7/15/2024 22:31	64901	MILL_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/15/2024 22:31	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:31	64302	LINC_T2	9	2	-7	0.37	0	-0.37	1.66	1.62	0	0	0	0	0	0
7/15/2024 22:31	57404	SPAN_T2	0	0	0	0	0	0	-1.29	-1.32	1	1	0	1200	1200	0
7/15/2024 22:31	60803	BUCK_T1	16	14	-2	0.59	0.34	-0.25	0	0	0	0	0	0	0	0
7/15/2024 22:32	64204	KINZ_T1	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
7/15/2024 22:32	64201	KINZ_T1	0	0	0	0	0	0	-0.11	-0.11	3	3	0	1500	1500	0
7/15/2024 22:32	20601	GRWO_T2	43	14	-29	0.43	0.53	0.1	0.24	0.21	0	0	0	0	0	0
7/15/2024 22:32	24901	WHHA_T1	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
7/15/2024 22:32	24902	WHHA_T1	4	3	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/15/2024 22:32	29402	BELT_T1	1	1	0	8.7	8.8	0.1	0	0	0	0	0	0	0	0
7/15/2024 22:32	66902	SHIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/15/2024 22:32	65901	SAXR_T2	1	1	0	6.9	7.1	0.2	-0.62	-0.69	2	2	0	1500	1500	0
7/15/2024 22:32	57401	SPAN_T1	16	1	-15	0.41	0.5	0.09	-0.64	-0.64	2	2	0	1200	1200	0
7/15/2024 22:32	66901	SHIL_T2	0	22	22	0	0.1	0.1	-0.69	-0.68	1	1	0	1200	1200	0
7/15/2024 22:32	67801	WLAN_T1	2	12	10	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/15/2024 22:32	63804	HEMP_T1	1	1	0	6.5	6.3	-0.2	0.11	0.05	0	0	0	0	0	0
7/15/2024 22:32	67804	WLAN_T1	5	10	5	0.18	0.55	0.37	0	0	0	0	0	0	0	0
7/15/2024 22:32	67803	WLAN_T1	0	0	0	0	0	0	-0.72	-0.78	0	0	0	0	0	0
7/15/2024 22:33	11505	FREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:33	40303	TAMA_T3	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/15/2024 22:33	64101	REFR_T1	0	0	0	0	0	0	-0.04	0.52	0	0	0	0	0	0
7/15/2024 22:33	24105	EHAZ_T1	4	4	0	5.88	5.48	-0.4	0	0	0	0	0	0	0	0
7/15/2024 22:33	11504	FREE_T1	8	7	-1	0.25	0	-0.25	-1.31	-1.46	2	2	0	2100	2100	0
7/15/2024 22:33	24902	WHHA_T1	4	3	-1	0.5	0	-0.5	0.48	0.49	0	0	0	0	0	0
7/15/2024 22:33	40302	TAMA_T3	3	4	1	0.27	0.28	0.01	-0.88	-0.9	0	0	0	0	0	0
7/15/2024 22:33	66505	SMAN_T2	8	0	-8	0.4	0	-0.4	-0.1	0.05	4	3	-1	2300	2100	-200
7/15/2024 22:33	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:33	24102	EHAZ_T1	27	25	-2	1.01	1.16	0.15	1.16	1.14	0	0	0	0	0	0
7/15/2024 22:33	24101	EHAZ_T1	18	20	2	0.65	0.47	-0.18	0	0	0	0	0	0	0	0
7/15/2024 22:33	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/15/2024 22:34	66703	STRA_T1	0	1	1	0	0.1	0.1	0.46	0.41	0	0	0	0	0	0
7/15/2024 22:34	48301	ORWI_T1	2	2	0	1.3	1.5	0.2	0.96	0.92	0	0	0	0	0	0
7/15/2024 22:34	20402	ASHF_T2	14	8	-6	0.99	0.37	-0.62	0	0	0	0	0	0	0	0
7/15/2024 22:34	67602	WARW_T2	1	1	0	0.3	0	-0.3	0.39	0.4	2	2	0	1500	1500	0
7/15/2024 22:34	56504	ROCK_T2	0	4	4	0	0.1	0.1	0.42	0.38	0	0	0	0	0	0
7/15/2024 22:34	67603	WARW_T1	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
7/15/2024 22:34	47101	MARL_T1	74	49	-25	1.09	0.93	-0.16	-0.66	-0.7	1	1	0	600	600	0
7/15/2024 22:34	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:34	47104	MARL_T1	21	13	-8	0.86	0.13	-0.73	0	0	0	0	0	0	0	0
7/15/2024 22:34	20403	ASHF_T2	1	0	-1	0.8	0	-0.8	1.1	1.02	0	0	0	0	0	0
7/15/2024 22:34	20401	ASHF_T2	2	2	0	0.85	0.45	-0.4	0	0	0	0	0	0	0	0
7/15/2024 22:34	66505	SMAN_T2	8	0	-8	0.4	0	-0.4	-0.1	0.05	4	3	-1	2300	2100	-200
7/15/2024 22:34	56501	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 22:34	57401	SPAN_T1	16	1	-15	0.41	0.5	0.09	-0.32	-0.32	1	1	0	600	600	0
7/15/2024 22:34	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.69	-0.7	0	0	0	0	0	0
7/15/2024 22:34	57403	SPAN_T1	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
7/15/2024 22:34	67605	WARW_T1	1	3	2	0.7	0.9	0.2	-0.63	-0.7	0	0	0	0	0	0
7/15/2024 22:34	13503	MCMI_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
7/15/2024 22:34	61102	BERK_T5	0	0	0	0	0	0	0.99	1.05	2	2	0	600	600	0
7/15/2024 22:35	51401	LYKE_T1	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
7/15/2024 22:35	60502	NMAN_T2	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
7/15/2024 22:35	67503	WEWI_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
7/15/2024 22:35	48302	ORWI_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
7/15/2024 22:35	65603	QVIL_T2	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
7/15/2024 22:35	12006	HATF_T1	0	0	0	0	0	0	-0.07	-0.14	2	2	0	2400	2400	0
7/15/2024 22:35	11102	EGYP_T1	11	8	-3	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
7/15/2024 22:35	65205	PRIN_T1	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
7/15/2024 22:35	61102	BERK_T5	0	0	0	0	0	0	0.99	1.05	2	2	0	600	600	0
7/15/2024 22:35	48301	ORWI_T1	2	2	0	1.3	1.5	0.2	0.96	0.92	0	0	0	0	0	0
7/15/2024 22:35	12001	HATF_T1	1	1	0	1.8	1.2	-0.6	0	0	0	0	0	0	0	0
7/15/2024 22:35	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/15/2024 22:35	52004	LING_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
7/15/2024 22:35	11104	EGYP_T1	1	0	-1	0.8	0	-0.8	0.02	-0.01	0	0	0	0	0	0
7/15/2024 22:35	40101	HUNT_T2	49	28	-21	0.58	0.61	0.03	-1.29	-1.31	0	0	0	0	0	0
7/15/2024 22:36	56802	BENV_T2	2	1	-1	0.6	0.4	-0.2	-0.7	-0.77	0	0	0	0	0	0
7/15/2024 22:36	53803	MBRG_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
7/15/2024 22:36	56501	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 22:36	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/15/2024 22:36	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:36	16302	ALPA_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
7/15/2024 22:36	66505	SMAN_T2	8	0	-8	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/15/2024 22:36	12701	MACU_T1	0	0	0	0	0	0	-0.71	-0.72	1	1	0	1200	1200	0
7/15/2024 22:36	16301	ALPA_T1	0	1	1	0	0.1	0.1	0.58	0.52	0	0	0	0	0	0
7/15/2024 22:36	57401	SPAN_T1	16	1	-15	0.41	0.5	0.09	-0.32	-0.32	1	1	0	600	600	0
7/15/2024 22:36	60701	BREC_T1	0	0	0	0	0	0	-0.57	-0.6	2	2	0	1200	1200	0
7/15/2024 22:36	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.35	-0.41	0	0	0	0	0	0
7/15/2024 22:36	27603	PIRI_T2	2	1	-1	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
7/15/2024 22:36	27605	PIRI_T2	88	62	-26	0.74	0.43	-0.31	1	1	0	0	0	0	0	0
7/15/2024 22:36	56504	ROCK_T2	0	4	4	0	0.1	0.1	0.83	0.76	0	0	0	0	0	0
7/15/2024 22:37	24902	WHHA_T1	4	3	-1	0.5	0	-0.5	0.49	0.44	0	0	0	0	0	0
7/15/2024 22:37	60201	ATGL_T2	0	0	0	0	0	0	1.02	1.04	0	0	0	0	0	0
7/15/2024 22:37	61703	ELIZ_T1	0	1	1	0	0.1	0.1	-1.55	-1.53	1	1	0	900	900	0
7/15/2024 22:37	47104	MARL_T1	21	13	-8	0.86	0.13	-0.73	0	0	0	0	0	0	0	0
7/15/2024 22:37	67801	WLAN_T1	2	12	10	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/15/2024 22:37	60801	BUCK_T1	11	1	-10	0.18	0.1	-0.08	0.12	0.09	0	0	0	0	0	0
7/15/2024 22:37	57401	SPAN_T1	16	1	-15	0.41	0.5	0.09	-0.32	-0.38	1	1	0	600	600	0
7/15/2024 22:37	67602	WARW_T2	1	1	0	0.3	0	-0.3	0.4	0.37	2	2	0	1500	1500	0
7/15/2024 22:37	67804	WLAN_T1	5	10	5	0.18	0.55	0.37	0	0	0	0	0	0	0	0
7/15/2024 22:37	20601	GRWO_T2	43	14	-29	0.43	0.53	0.1	0.21	0.2	0	0	0	0	0	0
7/15/2024 22:37	61701	ELIZ_T1	1	1	0	4.3	4.9	0.6	0	0	0	0	0	0	0	0
7/15/2024 22:37	67605	WARW_T1	1	3	2	0.7	0.9	0.2	-0.7	-0.75	0	0	0	0	0	0
7/15/2024 22:37	47101	MARL_T1	74	49	-25	1.09	0.93	-0.16	-0.7	-0.76	1	1	0	600	600	0
7/15/2024 22:37	60803	BUCK_T1	16	14	-2	0.59	0.34	-0.25	0	0	0	0	0	0	0	0
7/15/2024 22:37	65604	QVIL_T2	0	0	0	0	0	0	0.96	0.88	0	0	0	0	0	0
7/15/2024 22:37	56802	BENV_T2	2	1	-1	0.6	0.4	-0.2	-0.77	-0.8	0	0	0	0	0	0
7/15/2024 22:37	56501	ROCK_T2	0	1	1	0	0.2	0.2	-2.24	-2.31	0	0	0	0	0	0
7/15/2024 22:37	56504	ROCK_T2	0	4	4	0	0.1	0.1	0.38	0.36	0	0	0	0	0	0
7/15/2024 22:37	67803	WLAN_T1	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
7/15/2024 22:37	60502	NMAN_T2	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
7/15/2024 22:37	52002	LING_T2	0	0	0	0	0	0	0.2	0.07	2	2	0	1800	1800	0
7/15/2024 22:38	61701	ELIZ_T1	1	1	0	4.3	4.9	0.6	1.11	1.16	0	0	0	0	0	0
7/15/2024 22:38	55408	SHER_T2	1	1	0	1.8	2.2	0.4	-0.94	-0.94	1	1	0	1200	1200	0
7/15/2024 22:38	48301	ORWI_T1	2	2	0	1.3	1.5	0.2	0.92	0.94	0	0	0	0	0	0
7/15/2024 22:38	16006	DORN_T2	9	9	0	3.09	3.55	0.46	0	0	0	0	0	0	0	0
7/15/2024 22:38	13904	SEID_T1	52	50	-2	1.72	0.68	-1.04	-0.38	-0.39	0	0	0	0	0	0
7/15/2024 22:38	58003	WCAR_T1	1	1	0	0.8	0.9	0.1	0.47	0.4	1	1	0	600	600	0
7/15/2024 22:38	11001	EGRE_T1	0	0	0	0	0	0	0.11	0.03	1	1	0	1200	1200	0
7/15/2024 22:38	61102	BERK_T5	0	0	0	0	0	0	1.58	1.28	3	3	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/15/2024 22:38	46203	DANV_T2	6	6	0	0.47	0.48	0.01	-0.97	-0.05	0	0	0	0	0	0
7/15/2024 22:38	61703	ELIZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/15/2024 22:38	60502	NMAN_T2	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
7/15/2024 22:38	11802	FRAN_T1	17	4	-13	0.47	0.2	-0.27	0	0	0	0	0	0	0	0
7/15/2024 22:38	67803	WLAN_T1	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
7/15/2024 22:38	13902	SEID_T1	4	2	-2	0.28	0	-0.28	0	0	0	0	0	0	0	0
7/15/2024 22:38	47401	PENS_T1	1	1	0	0.2	0	-0.2	0.7	0.65	0	0	0	0	0	0
7/15/2024 22:38	13903	SEID_T1	35	26	-9	0.9	0.54	-0.36	0	0	0	0	0	0	0	0
7/15/2024 22:38	56504	ROCK_T2	0	4	4	0	0.1	0.1	0.38	0.36	0	0	0	0	0	0
7/15/2024 22:38	46206	DANV_T2	11	15	4	0.62	0.53	-0.09	0	0	0	0	0	0	0	0
7/15/2024 22:38	40101	HUNT_T2	49	28	-21	0.58	0.61	0.03	-1.31	-1.34	0	0	0	0	0	0
7/15/2024 22:38	67804	WLAN_T1	5	10	5	0.18	0.55	0.37	0	0	0	0	0	0	0	0
7/15/2024 22:38	67801	WLAN_T1	2	12	10	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/15/2024 22:38	11804	FRAN_T1	247	236	-11	1.91	0.94	-0.97	-0.26	-0.21	1	1	0	1200	1200	0
7/15/2024 22:38	16002	DORN_T2	5	3	-2	0.5	0.3	-0.2	0.26	0.24	1	1	0	1200	1200	0
7/15/2024 22:38	56501	ROCK_T2	0	1	1	0	0.2	0.2	-2.24	-2.31	0	0	0	0	0	0
7/15/2024 22:39	20403	ASHF_T2	1	0	-1	0.8	0	-0.8	1.02	0.99	0	0	0	0	0	0
7/15/2024 22:39	67804	WLAN_T1	5	10	5	0.18	0.55	0.37	0	0	0	0	0	0	0	0
7/15/2024 22:39	59101	WALK_T2	0	0	0	0	0	0	0.18	0.24	0	0	0	0	0	0
7/15/2024 22:39	67203	TEHI_T1	0	0	0	0	0	0	2.77	2.88	2	2	0	1500	1500	0
7/15/2024 22:39	51003	NHAR_T1	10	9	-1	1.39	0.65	-0.74	-2.12	-2.06	1	1	0	1200	1200	0
7/15/2024 22:39	52501	PROG_T1	0	6	6	0	0.17	0.17	-0.67	-0.75	1	1	0	300	300	0
7/15/2024 22:39	67201	TEHI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/15/2024 22:39	51004	NHAR_T1	1	1	0	7.1	6.8	-0.3	0	0	0	0	0	0	0	0
7/15/2024 22:39	56501	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 22:39	46206	DANV_T2	11	15	4	0.62	0.53	-0.09	2.34	2.3	2	2	0	2100	2100	0
7/15/2024 22:39	52504	PROG_T1	0	9	9	0	0.11	0.11	0	0	0	0	0	0	0	0
7/15/2024 22:39	20401	ASHF_T2	2	2	0	0.85	0.45	-0.4	0	0	0	0	0	0	0	0
7/15/2024 22:39	67605	WARW_T1	1	3	2	0.7	0.9	0.2	-0.7	-0.75	0	0	0	0	0	0
7/15/2024 22:39	56504	ROCK_T2	0	4	4	0	0.1	0.1	0.38	0.36	0	0	0	0	0	0
7/15/2024 22:39	64101	REFR_T1	0	0	0	0	0	0	1.03	1.07	0	0	0	0	0	0
7/15/2024 22:39	51002	NHAR_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
7/15/2024 22:39	67801	WLAN_T1	2	12	10	0.15	0	-0.15	0.33	0.28	0	0	0	0	0	0
7/15/2024 22:39	46203	DANV_T2	6	6	0	0.47	0.48	0.01	0	0	0	0	0	0	0	0
7/15/2024 22:39	58402	MORO_T1	0	0	0	0	0	0	-0.22	-0.28	3	3	0	2400	2400	0
7/15/2024 22:39	40502	CRES_T2	4	8	4	0.28	0.24	-0.04	0.02	-0.03	0	0	0	0	0	0
7/15/2024 22:39	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:39	20402	ASHF_T2	14	8	-6	0.99	0.37	-0.62	0	0	0	0	0	0	0	0
7/15/2024 22:39	52004	LING_T2	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
7/15/2024 22:39	67602	WARW_T2	1	1	0	0.3	0	-0.3	0.8	0.74	4	4	0	3000	3000	0
7/15/2024 22:40	57403	SPAN_T1	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
7/15/2024 22:40	58705	ROSE_T2	3	4	1	0.43	0.8	0.37	0	0	0	0	0	0	0	0
7/15/2024 22:40	22905	HARW_T1	63	50	-13	0.9	0.69	-0.21	0	0	0	0	0	0	0	0
7/15/2024 22:40	40601	PIGR_T1	6	1	-5	0.38	0	-0.38	0	0	0	0	0	0	0	0
7/15/2024 22:40	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:40	22901	HARW_T1	18	3	-15	0.23	0	-0.23	-0.24	-0.07	1	1	0	1200	1200	0
7/15/2024 22:40	56504	ROCK_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/15/2024 22:40	56802	BENV_T2	2	1	-1	0.6	0.4	-0.2	-0.77	-0.8	0	0	0	0	0	0
7/15/2024 22:40	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.35	-0.41	0	0	0	0	0	0
7/15/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
7/15/2024 22:40	66505	SMAN_T2	8	0	-8	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/15/2024 22:40	22903	HARW_T1	13	7	-6	0.91	0.34	-0.57	0	0	0	0	0	0	0	0
7/15/2024 22:40	56803	BENV_T1	5	4	-1	2.94	1.85	-1.09	0.11	0.09	0	0	0	0	0	0
7/15/2024 22:40	40602	PIGR_T1	0	0	0	0	0	0	-1.04	-1.06	1	1	0	600	600	0
7/15/2024 22:40	61701	ELIZ_T1	1	1	0	4.3	4.9	0.6	0	0	0	0	0	0	0	0
7/15/2024 22:40	57404	SPAN_T2	0	0	0	0	0	0	-1.32	-1.35	1	1	0	1200	1200	0
7/15/2024 22:40	61703	ELIZ_T1	0	1	1	0	0.1	0.1	-3.1	-3.07	2	2	0	1800	1800	0
7/15/2024 22:40	55102	WERT_T2	0	0	0	0	0	0	-0.52	-0.56	1	1	0	600	600	0
7/15/2024 22:40	58706	ROSE_T2	1	1	0	1.9	1.5	-0.4	0	0	0	0	0	0	0	0
7/15/2024 22:40	58701	ROSE_T2	0	0	0	0	0	0	-1.64	-1.65	1	1	0	600	600	0
7/15/2024 22:40	40603	PIGR_T1	6	2	-4	0.47	0.1	-0.37	0	0	0	0	0	0	0	0
7/15/2024 22:40	57401	SPAN_T1	16	1	-15	0.41	0.5	0.09	0	0	0	0	0	0	0	0
7/15/2024 22:40	56801	BENV_T1	7	8	1	0.8	1	0.2	0	0	0	0	0	0	0	0
7/15/2024 22:40	56501	ROCK_T2	0	1	1	0	0.2	0.2	-6.73	-6.94	0	0	0	0	0	0
7/15/2024 22:40	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/15/2024 22:41	12701	MACU_T1	0	0	0	0	0	0	-0.71	-0.72	1	1	0	1200	1200	0
7/15/2024 22:41	47104	MARL_T1	21	13	-8	0.86	0.13	-0.73	0	0	0	0	0	0	0	0
7/15/2024 22:41	46301	ROHR_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/15/2024 22:41	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.23	1	1	0	600	600	0
7/15/2024 22:41	47101	MARL_T1	74	49	-25	1.09	0.93	-0.16	-0.7	-0.76	1	1	0	600	600	0
7/15/2024 22:41	57104	SPHI_T2	0	0	0	0	0	0	-1.23	-1.3	0	0	0	0	0	0
7/15/2024 22:41	46302	ROHR_T1	2	4	2	2.1	1.48	-0.62	0.38	0.34	0	0	0	0	0	0
7/15/2024 22:41	56504	ROCK_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/15/2024 22:41	47401	PENS_T1	1	1	0	0.2	0	-0.2	0.7	0.65	0	0	0	0	0	0
7/15/2024 22:41	56501	ROCK_T2	0	1	1	0	0.2	0.2	-2.24	-2.31	0	0	0	0	0	0
7/15/2024 22:41	57106	SPHI_T2	3	3	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/15/2024 22:41	11402	FARM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/15/2024 22:41	11405	FARM_T1	0	2	2	0	0	0	-0.88	0.37	1	1	0	1200	1200	0
7/15/2024 22:41	57101	SPHI_T2	0	6	6	0	0.53	0.53	0	0	0	0	0	0	0	0
7/15/2024 22:41	45302	WBER_T2	0	0	0	0	0	0	1.5	1.45	0	0	0	0	0	0
7/15/2024 22:41	58203	NEWV_T2	26	36	10	0.6	2.45	1.85	-0.89	-0.89	0	0	0	0	0	0
7/15/2024 22:41	56802	BENV_T2	2	1	-1	0.6	0.4	-0.2	-0.77	-0.8	0	0	0	0	0	0
7/15/2024 22:41	45303	WBER_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/15/2024 22:42	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:42	56801	BENV_T1	7	8	1	0.8	1	0.2	-0.68	-0.76	2	2	0	1200	1200	0
7/15/2024 22:42	48302	ORWI_T2	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
7/15/2024 22:42	55003	NEWP_T2	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
7/15/2024 22:42	49803	UNIV_T1	0	0	0	0	0	0	-1.83	-1.89	0	0	0	0	0	0
7/15/2024 22:42	55001	NEWP_T1	3	0	-3	0.17	0	-0.17	-0.36	-0.39	0	0	0	0	0	0
7/15/2024 22:42	42701	AUGU_T1	48	18	-30	0.54	0.35	-0.19	0	0	2	2	0	1800	1800	0
7/15/2024 22:42	56803	BENV_T1	5	4	-1	2.94	1.85	-1.09	0	0	0	0	0	0	0	0
7/15/2024 22:43	11104	EGYP_T1	1	0	-1	0.8	0	-0.8	-0.01	-0.04	0	0	0	0	0	0
7/15/2024 22:43	66505	SMAN_T2	8	0	-8	0.4	0	-0.4	0.05	0.08	3	3	0	2100	2100	0
7/15/2024 22:43	52403	GRPA_T2	44	22	-22	0.7	0.76	0.06	0	0	0	0	0	0	0	0
7/15/2024 22:43	64101	REFR_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
7/15/2024 22:43	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/15/2024 22:43	67204	TEHI_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
7/15/2024 22:43	57401	SPAN_T1	16	1	-15	0.41	0.5	0.09	-0.32	-0.38	1	1	0	600	600	0
7/15/2024 22:43	17002	RIRO_T2	1	1	0	1.8	1.7	-0.1	0.81	0.8	0	0	0	0	0	0
7/15/2024 22:43	46203	DANV_T2	6	6	0	0.47	0.48	0.01	-0.97	-0.05	0	0	0	0	0	0
7/15/2024 22:43	46206	DANV_T2	11	15	4	0.62	0.53	-0.09	0	0	0	0	0	0	0	0
7/15/2024 22:43	52402	GRPA_T2	4	2	-2	0.25	0	-0.25	-0.48	-0.54	0	0	0	0	0	0
7/15/2024 22:43	57404	SPAN_T2	0	0	0	0	0	0	-1.32	-1.35	1	1	0	1200	1200	0
7/15/2024 22:43	56801	BENV_T1	7	8	1	0.8	1	0.2	-0.68	-0.76	2	2	0	1200	1200	0
7/15/2024 22:43	11102	EGYP_T1	11	8	-3	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
7/15/2024 22:43	56803	BENV_T1	5	4	-1	2.94	1.85	-1.09	0	0	0	0	0	0	0	0
7/15/2024 22:43	67602	WARW_T2	1	1	0	0.3	0	-0.3	0.4	0.37	2	2	0	1500	1500	0
7/15/2024 22:44	56801	BENV_T1	7	8	1	0.8	1	0.2	-0.68	-0.76	2	2	0	1200	1200	0
7/15/2024 22:44	61102	BERK_T5	0	0	0	0	0	0	0.53	0.43	1	1	0	300	300	0
7/15/2024 22:44	59003	MIFF_T1	0	0	0	0	0	0	-0.23	-0.33	0	0	0	0	0	0
7/15/2024 22:44	57404	SPAN_T2	0	0	0	0	0	0	-1.32	-1.35	1	1	0	1200	1200	0
7/15/2024 22:44	56803	BENV_T1	5	4	-1	2.94	1.85	-1.09	0	0	0	0	0	0	0	0
7/15/2024 22:44	56504	ROCK_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/15/2024 22:44	52402	GRPA_T2	4	2	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/15/2024 22:44	47401	PENS_T1	1	1	0	0.2	0	-0.2	0.7	0.65	0	0	0	0	0	0
7/15/2024 22:44	52403	GRPA_T2	44	22	-22	0.7	0.76	0.06	0	0	0	0	0	0	0	0
7/15/2024 22:44	56501	ROCK_T2	0	1	1	0	0.2	0.2	-2.24	-2.31	0	0	0	0	0	0
7/15/2024 22:44	52404	GRPA_T2	0	0	0	0	0	0	-0.49	-0.54	0	0	0	0	0	0
7/15/2024 22:45	56501	ROCK_T2	1	1	0	0.2	0.2	0	-2.24	-2.31	0	0	0	0	0	0
7/15/2024 22:45	67602	WARW_T2	1	0	-1	0.4	0	-0.4	0.4	0.37	2	2	0	1500	1500	0
7/15/2024 22:45	52402	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 22:45	46203	DANV_T2	6	0	-6	0.48	0	-0.48	-1.93	-0.1	0	0	0	0	0	0
7/15/2024 22:45	48301	ORWI_T1	2	2	0	1.5	1.7	0.2	0.92	0.94	0	0	0	0	0	0
7/15/2024 22:45	59003	MIFF_T1	0	0	0	0	0	0	-0.23	-0.33	0	0	0	0	0	0
7/15/2024 22:45	61701	ELIZ_T1	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
7/15/2024 22:45	52403	GRPA_T2	10	24	14	0.76	0.73	-0.03	0	0	0	0	0	0	0	0
7/15/2024 22:45	26402	INOR_T1	16	16	0	0.99	1.23	0.24	-1.13	-1.14	0	0	0	0	0	0
7/15/2024 22:45	56504	ROCK_T2	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/15/2024 22:45	46206	DANV_T2	14	29	15	0.49	0.54	0.05	0	0	0	0	0	0	0	0
7/15/2024 22:45	51401	LYKE_T1	0	0	0	0	0	0	0.49	0.44	0	0	0	0	0	0
7/15/2024 22:45	26401	INOR_T1	1	1	0	8.2	8.6	0.4	0	0	0	0	0	0	0	0
7/15/2024 22:45	61703	ELIZ_T1	1	0	-1	0.1	0	-0.1	-1.55	-1.53	1	1	0	900	900	0
7/15/2024 22:45	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:45	47401	PENS_T1	1	0	-1	0.2	0	-0.2	1.39	1.29	0	0	0	0	0	0
7/15/2024 22:45	52401	GRPA_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
7/15/2024 22:45	46001	BERW_T1	0	0	0	0	0	0	1.2	1.19	0	0	0	0	0	0
7/15/2024 22:45	40101	HUNT_T2	27	11	-16	0.59	0.28	-0.31	-1.31	-1.34	0	0	0	0	0	0
7/15/2024 22:45	67201	TEHI_T1	1	1	0	0.2	0.2	0	0.01	0	0	0	0	0	0	0
7/15/2024 22:45	13503	MCMI_T2	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
7/15/2024 22:46	52002	LING_T2	0	0	0	0	0	0	0.1	0.04	1	1	0	900	900	0
7/15/2024 22:46	20403	ASHF_T2	0	0	0	0	0	0	1.02	0.99	0	0	0	0	0	0
7/15/2024 22:46	65901	SAKR_T2	1	1	0	6.9	7.4	0.5	0	0	0	0	0	0	0	0
7/15/2024 22:46	14402	SSLA_T1	3	3	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/15/2024 22:46	56803	BENV_T1	4	4	0	2.95	1.33	-1.62	0	0	0	0	0	0	0	0
7/15/2024 22:46	56801	BENV_T1	8	8	0	0.91	0.86	-0.05	-0.68	-0.76	2	2	0	1200	1200	0
7/15/2024 22:46	47101	MARL_T1	48	42	-6	1.05	1.02	-0.03	-0.7	-0.76	1	1	0	600	600	0
7/15/2024 22:46	14404	SSLA_T1	3	2	-1	0.77	1.75	0.98	0	0	0	0	0	0	0	0
7/15/2024 22:46	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:46	20402	ASHF_T2	8	6	-2	0.96	0	-0.96	0	0	0	0	0	0	0	0
7/15/2024 22:46	64101	REFR_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
7/15/2024 22:46	14403	SSLA_T1	0	0	0	0	0	0	0.73	0.67	1	1	0	600	600	0
7/15/2024 22:46	20401	ASHF_T2	2	4	2	0.45	0.15	-0.3	0	0	0	0	0	0	0	0
7/15/2024 22:46	65503	MOJO_T2	0	0	0	0	0	0	-0.33	-0.37	1	1	0	900	900	0
7/15/2024 22:46	67602	WARW_T2	1	0	-1	0.4	0	-0.4	0.4	0.37	2	2	0	1500	1500	0
7/15/2024 22:46	65902	SAKR_T2	0	0	0	0	0	0	-1.19	-1.28	2	2	0	1200	1200	0
7/15/2024 22:46	55001	NEWP_T1	0	0	0	0	0	0	-0.72	-0.78	0	0	0	0	0	0
7/15/2024 22:46	47104	MARL_T1	13	7	-6	0.59	0.1	-0.49	0	0	0	0	0	0	0	0
7/15/2024 22:46	44703	MUNC_T2	0	0	0	0	0	0	0.96	0.93	0	0	0	0	0	0
7/15/2024 22:47	56501	ROCK_T2	1	1	0	0.2	0.2	0	-2.24	-2.31	0	0	0	0	0	0
7/15/2024 22:47	42903	MIDD_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/15/2024 22:47	57401	SPAN_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/15/2024 22:47	46206	DANV_T2	14	29	15	0.49	0.54	0.05	2.34	2.3	2	2	0	2100	2100	0
7/15/2024 22:47	49804	UNIV_T1	0	1	1	0	0	0	1.14	1.09	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/15/2024 22:47	66703	STRA_T1	1	1	0	0.1	0	-0.1	0.41	0.36	0	0	0	0	0	0
7/15/2024 22:47	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:47	57403	SPAN_T1	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
7/15/2024 22:47	42902	MIDD_T2	1	0	-1	0.9	0	-0.9	-0.54	-0.55	1	1	0	600	600	0
7/15/2024 22:47	60502	NMAN_T2	0	1	1	0	0	0	-0.12	-0.13	0	0	0	0	0	0
7/15/2024 22:47	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:47	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:47	42901	MIDD_T2	3	2	-1	0.83	0.35	-0.48	0	0	0	0	0	0	0	0
7/15/2024 22:47	46203	DANV_T2	6	0	-6	0.48	0	-0.48	-0.97	-0.05	0	0	0	0	0	0
7/15/2024 22:47	41902	REED_T1	19	7	-12	0.54	0.6	0.06	0.58	0.56	1	1	0	900	900	0
7/15/2024 22:47	56504	ROCK_T2	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/15/2024 22:47	41901	REED_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/15/2024 22:48	13103	NHAM_T2	3	9	6	0.33	0.5	0.17	0	0	0	0	0	0	0	0
7/15/2024 22:48	59101	WALK_T2	0	0	0	0	0	0	0.18	0.24	0	0	0	0	0	0
7/15/2024 22:48	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:48	64101	REFR_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
7/15/2024 22:48	48303	ORWI_T2	0	0	0	0	0	0	0.78	0.73	0	0	0	0	0	0
7/15/2024 22:48	56501	ROCK_T2	1	1	0	0.2	0.2	0	-2.24	-2.31	0	0	0	0	0	0
7/15/2024 22:48	40101	HUNT_T2	27	11	-16	0.59	0.28	-0.31	-1.31	-1.34	0	0	0	0	0	0
7/15/2024 22:48	56504	ROCK_T2	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/15/2024 22:48	52402	GRPA_T2	0	3	3	0	0.2	0.2	-0.48	-0.54	0	0	0	0	0	0
7/15/2024 22:48	20403	ASHF_T2	0	0	0	0	0	0	1.02	0.99	0	0	0	0	0	0
7/15/2024 22:48	52403	GRPA_T2	10	24	14	0.76	0.73	-0.03	0	0	0	0	0	0	0	0
7/15/2024 22:48	67602	WARW_T2	1	0	-1	0.4	0	-0.4	0.4	0.37	2	2	0	1500	1500	0
7/15/2024 22:48	20601	GRWO_T2	10	12	2	0.48	0.2	-0.28	0.21	0.2	0	0	0	0	0	0
7/15/2024 22:48	13105	NHAM_T2	9	35	26	0.28	0.36	0.08	-1.69	-0.7	1	1	0	1200	1200	0
7/15/2024 22:48	52404	GRPA_T2	0	0	0	0	0	0	-0.99	-1.09	0	0	0	0	0	0
7/15/2024 22:48	53501	EVIL_T2	1	1	0	1.1	0.8	-0.3	-0.79	-0.72	2	2	0	1200	1200	0
7/15/2024 22:48	20402	ASHF_T2	8	6	-2	0.96	0	-0.96	0	0	0	0	0	0	0	0
7/15/2024 22:48	45702	LIND_T2	0	0	0	0	0	0	-1.4	-1.42	0	0	0	0	0	0
7/15/2024 22:48	20401	ASHF_T2	2	4	2	0.45	0.15	-0.3	0	0	0	0	0	0	0	0
7/15/2024 22:49	46206	DANV_T2	14	29	15	0.49	0.54	0.05	2.34	2.3	2	2	0	2100	2100	0
7/15/2024 22:49	56501	ROCK_T2	1	1	0	0.2	0.2	0	-2.24	-2.31	0	0	0	0	0	0
7/15/2024 22:49	64101	REFR_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
7/15/2024 22:49	63303	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:49	12701	MACU_T1	0	0	0	0	0	0	-0.71	-0.72	1	1	0	1200	1200	0
7/15/2024 22:49	58706	ROSE_T2	1	1	0	1.5	1.8	0.3	1.07	1.05	1	1	0	600	600	0
7/15/2024 22:49	58705	ROSE_T2	4	4	0	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
7/15/2024 22:49	51401	LYKE_T1	0	0	0	0	0	0	0.49	0.44	0	0	0	0	0	0
7/15/2024 22:49	56504	ROCK_T2	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/15/2024 22:49	48302	ORWI_T2	0	0	0	0	0	0	-0.41	-0.35	0	0	0	0	0	0
7/15/2024 22:49	59101	WALK_T2	0	0	0	0	0	0	0.18	0.24	0	0	0	0	0	0
7/15/2024 22:49	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:49	63304	GREE_T1	0	0	0	0	0	0	-1.02	-1.02	0	0	0	0	0	0
7/15/2024 22:49	54503	ENOL_T2	0	0	0	0	0	0	-1.57	-1.63	1	1	0	600	600	0
7/15/2024 22:49	41901	REED_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/15/2024 22:49	43202	MVIL_T2	22	20	-2	0.26	0.29	0.03	-0.49	-0.47	0	0	0	0	0	0
7/15/2024 22:49	44801	EDAN_T2	1	1	0	0.5	0.3	-0.2	-1.25	-1.25	0	0	0	0	0	0
7/15/2024 22:49	46203	DANV_T2	6	0	-6	0.48	0	-0.48	0	0	0	0	0	0	0	0
7/15/2024 22:49	67602	WARW_T2	1	0	-1	0.4	0	-0.4	0.4	0.37	2	2	0	1500	1500	0
7/15/2024 22:49	41902	REED_T1	19	7	-12	0.54	0.6	0.06	0.58	0.56	1	1	0	900	900	0
7/15/2024 22:50	27605	PIRI_T2	62	42	-20	0.55	0.5	-0.05	1	0.99	0	0	0	0	0	0
7/15/2024 22:50	56803	BENV_T1	4	4	0	2.95	1.33	-1.62	0	0	0	0	0	0	0	0
7/15/2024 22:50	46206	DANV_T2	14	29	15	0.49	0.54	0.05	2.34	2.3	2	2	0	2100	2100	0
7/15/2024 22:50	48301	ORWI_T1	2	2	0	1.5	1.7	0.2	0.92	0.94	0	0	0	0	0	0
7/15/2024 22:50	58402	MORO_T1	0	0	0	0	0	0	-0.22	-0.28	3	3	0	2400	2400	0
7/15/2024 22:50	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:50	46203	DANV_T2	6	0	-6	0.48	0	-0.48	0	0	0	0	0	0	0	0
7/15/2024 22:50	46803	HEPB_T2	0	0	0	0	0	0	0.76	0.68	0	0	0	0	0	0
7/15/2024 22:50	61701	ELIZ_T1	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
7/15/2024 22:50	43304	WATS_T2	6	10	4	0.35	0	-0.35	-0.29	-0.49	0	0	0	0	0	0
7/15/2024 22:50	47401	PENS_T1	1	0	-1	0.2	0	-0.2	0.7	0.65	0	0	0	0	0	0
7/15/2024 22:50	46801	HEPB_T2	2	2	0	0.5	0.6	0.1	0.08	0.05	0	0	0	0	0	0
7/15/2024 22:50	52404	GRPA_T2	0	0	0	0	0	0	-0.49	-0.54	0	0	0	0	0	0
7/15/2024 22:50	52403	GRPA_T2	10	24	14	0.76	0.73	-0.03	0	0	0	0	0	0	0	0
7/15/2024 22:50	59101	WALK_T2	0	0	0	0	0	0	0.18	0.24	0	0	0	0	0	0
7/15/2024 22:50	56801	BENV_T1	8	8	0	0.91	0.86	-0.05	-1.36	-1.53	4	4	0	2400	2400	0
7/15/2024 22:50	61703	ELIZ_T1	1	0	-1	0.1	0	-0.1	-1.55	-1.53	1	1	0	900	900	0
7/15/2024 22:50	57303	MOAL_T2	1	1	0	7.9	8.1	0.2	0	0	0	0	0	0	0	0
7/15/2024 22:50	52402	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 22:50	27603	PIRI_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/15/2024 22:50	57304	MOAL_T2	0	1	1	0	0.1	0.1	-0.37	-0.06	0	0	0	0	0	0
7/15/2024 22:51	46001	BERW_T1	0	0	0	0	0	0	1.19	1.15	0	0	0	0	0	0
7/15/2024 22:51	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.16	1	1	0	600	600	0
7/15/2024 22:51	20401	ASHF_T2	2	4	2	0.45	0.15	-0.3	0	0	0	0	0	0	0	0
7/15/2024 22:51	64203	KINZ_T1	0	0	0	0	0	0	0.26	0.19	1	1	0	600	600	0
7/15/2024 22:51	20402	ASHF_T2	8	6	-2	0.96	0	-0.96	0	0	0	0	0	0	0	0
7/15/2024 22:51	58401	MORO_T1	0	0	0	0	0	0	-1.89	-1.95	3	3	0	2100	2100	0
7/15/2024 22:51	52002	LING_T2	0	0	0	0	0	0	0.2	0.07	2	2	0	1800	1800	0
7/15/2024 22:51	64204	KINZ_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/15/2024 22:51	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.48	0	0	0	0	0	0
7/15/2024 22:51	43304	WATS_T2	6	10	4	0.35	0	-0.35	-0.97	-0.56	0	0	0	0	0	0
7/15/2024 22:51	67605	WARW_T1	3	3	0	0.63	0.9	0.27	-1.51	-1.28	0	0	0	0	0	0
7/15/2024 22:51	64101	REFR_T1	0	0	0	0	0	0	0.53	0.72	0	0	0	0	0	0
7/15/2024 22:51	20403	ASHF_T2	0	0	0	0	0	0	1.02	0.99	0	0	0	0	0	0
7/15/2024 22:52	63304	GREE_T1	0	0	0	0	0	0	-1.02	-1.11	0	0	0	0	0	0
7/15/2024 22:52	20603	GRWO_T2	0	0	0	0	0	0	-0.27	-0.28	1	1	0	900	900	0
7/15/2024 22:52	56801	BENV_T1	8	8	0	0.91	0.86	-0.05	-2.29	-0.55	6	3	-3	3600	1800	-1800
7/15/2024 22:52	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.48	0	0	0	0	0	0
7/15/2024 22:52	52004	LING_T2	0	0	0	0	0	0	0.24	0.2	0	0	0	0	0	0
7/15/2024 22:52	43301	WATS_T2	0	0	0	0	0	0	-0.23	-0.27	1	1	0	900	900	0
7/15/2024 22:52	41902	REED_T1	19	7	-12	0.54	0.6	0.06	0.56	0.58	1	1	0	900	900	0
7/15/2024 22:52	43304	WATS_T2	6	10	4	0.35	0	-0.35	-0.97	-0.56	0	0	0	0	0	0
7/15/2024 22:52	42201	SHEN_T2	0	0	0	0	0	0	0.2	0.17	1	1	0	600	600	0
7/15/2024 22:52	62102	ELAN_T1	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
7/15/2024 22:52	47401	PENS_T1	1	0	-1	0.2	0	-0.2	1.29	1.13	0	0	0	0	0	0
7/15/2024 22:52	52401	GRPA_T2	0	0	0	0	0	0	-0.09	-0.14	0	0	0	0	0	0
7/15/2024 22:52	56803	BENV_T1	4	4	0	2.95	1.33	-1.62	0	0	0	0	0	0	0	0
7/15/2024 22:52	40601	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/15/2024 22:52	57101	SPHI_T2	6	6	0	0.53	0.8	0.27	0	0	0	0	0	0	0	0
7/15/2024 22:52	49804	UNIV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:52	52402	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 22:52	67204	TEHI_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
7/15/2024 22:52	47101	MARL_T1	48	42	-6	1.05	1.02	-0.03	-0.76	-0.82	1	1	0	600	600	0
7/15/2024 22:52	49803	UNIV_T1	0	0	0	0	0	0	-1.89	-1.9	0	0	0	0	0	0
7/15/2024 22:52	57103	SPHI_T2	0	0	0	0	0	0	-0.33	-0.35	1	1	0	600	600	0
7/15/2024 22:52	61701	ELIZ_T1	1	1	0	4.9	4.8	-0.1	1.16	1.22	0	0	0	0	0	0
7/15/2024 22:52	52403	GRPA_T2	10	24	14	0.76	0.73	-0.03	0	0	0	0	0	0	0	0
7/15/2024 22:52	48301	ORWI_T1	2	2	0	1.5	1.7	0.2	0.94	0.88	0	0	0	0	0	0
7/15/2024 22:52	20601	GRWO_T2	10	12	2	0.48	0.2	-0.28	0	0	0	0	0	0	0	0
7/15/2024 22:52	55001	NEWP_T1	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
7/15/2024 22:52	46102	MACI_T1	0	0	0	0	0	0	1.02	1.02	0	0	0	0	0	0
7/15/2024 22:52	61404	SLIT_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
7/15/2024 22:52	57106	SPHI_T2	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0	0
7/15/2024 22:52	46101	MACI_T2	0	0	0	0	0	0	-0.39	-0.44	1	1	0	1200	1200	0
7/15/2024 22:52	40603	PIGR_T1	2	1	-1	0.3	0	-0.3	-0.51	-0.53	0	0	0	0	0	0
7/15/2024 22:52	63303	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:52	41901	REED_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/15/2024 22:52	47104	MARL_T1	13	7	-6	0.59	0.1	-0.49	0	0	0	0	0	0	0	0
7/15/2024 22:52	61703	ELIZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/15/2024 22:52	56501	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/15/2024 22:52	67605	WARW_T1	3	3	0	0.63	0.9	0.27	-0.75	-0.64	0	0	0	0	0	0
7/15/2024 22:52	56504	ROCK_T2	1	4	3	0.1	0	-0.1	0.36	0.28	0	0	0	0	0	0
7/15/2024 22:52	44301	BEAV_T2	1	1	0	1	0.4	-0.6	0.07	0.09	1	1	0	600	600	0
7/15/2024 22:52	43302	WATS_T2	0	0	0	0	0	0	-0.63	-0.65	2	2	0	1800	1800	0
7/15/2024 22:52	62105	ELAN_T1	4	4	0	2.35	1.78	-0.57	0	0	0	0	0	0	0	0
7/15/2024 22:53	47101	MARL_T1	48	42	-6	1.05	1.02	-0.03	-1.52	-1.63	2	2	0	1200	1200	0
7/15/2024 22:53	46203	DANV_T2	6	0	-6	0.48	0	-0.48	-0.15	-4.34	0	0	0	0	0	0
7/15/2024 22:53	42701	AUGU_T1	18	5	-13	0.53	0.33	-0.2	0	0	2	2	0	1800	1800	0
7/15/2024 22:53	42902	MIDD_T2	1	0	-1	0.9	0	-0.9	-0.55	-0.63	1	1	0	600	600	0
7/15/2024 22:53	56803	BENV_T1	4	4	0	2.95	1.33	-1.62	0	0	0	0	0	0	0	0
7/15/2024 22:53	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:53	47401	PENS_T1	1	0	-1	0.2	0	-0.2	0.65	0.56	0	0	0	0	0	0
7/15/2024 22:53	43304	WATS_T2	6	10	4	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/15/2024 22:53	57401	SPAN_T1	1	1	0	0.7	0.4	-0.3	-0.77	-0.82	2	2	0	1200	1200	0
7/15/2024 22:53	42903	MIDD_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/15/2024 22:53	46206	DANV_T2	14	29	15	0.49	0.54	0.05	0	0	0	0	0	0	0	0
7/15/2024 22:53	47104	MARL_T1	13	7	-6	0.59	0.1	-0.49	0	0	0	0	0	0	0	0
7/15/2024 22:53	42901	MIDD_T2	3	2	-1	0.83	0.35	-0.48	0	0	0	0	0	0	0	0
7/15/2024 22:53	43301	WATS_T2	0	0	0	0	0	0	-0.46	-0.53	2	2	0	1800	1800	0
7/15/2024 22:53	55003	NEWP_T2	0	0	0	0	0	0	-0.45	-1.13	0	1	1	0	600	600
7/15/2024 22:53	44801	EDAN_T2	1	1	0	0.5	0.3	-0.2	-2.5	-2.57	0	0	0	0	0	0
7/15/2024 22:53	58003	WCAR_T1	1	1	0	0.9	0.6	-0.3	0.4	0.37	1	1	0	600	600	0
7/15/2024 22:53	56801	BENV_T1	8	8	0	0.91	0.86	-0.05	-1.53	-0.36	4	2	-2	2400	1200	-1200
7/15/2024 22:53	55408	SHER_T2	1	1	0	2.2	2.1	-0.1	-0.94	-0.94	1	1	0	1200	1200	0
7/15/2024 22:54	43304	WATS_T2	6	10	4	0.35	0	-0.35	-0.49	-0.28	0	0	0	0	0	0
7/15/2024 22:54	42902	MIDD_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/15/2024 22:54	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.48	0	0	0	0	0	0
7/15/2024 22:54	45802	HEGI_T2	8	18	10	0.39	0.44	0.05	-0.17	-0.05	2	2	0	1200	1200	0
7/15/2024 22:54	42701	AUGU_T1	18	5	-13	0.53	0.33	-0.2	0	0	2	2	0	1800	1800	0
7/15/2024 22:54	56803	BENV_T1	4	4	0	2.95	1.33	-1.62	0	0	0	0	0	0	0	0
7/15/2024 22:54	42903	MIDD_T2	0	2	2	0	0.25	0.25	-1.02	-0.96	1	1	0	1200	1200	0
7/15/2024 22:54	47104	MARL_T1	13	7	-6	0.59	0.1	-0.49	0	0	0	0	0	0	0	0
7/15/2024 22:54	64101	REFR_T1	0	0	0	0	0	0	0.53	0.72	0	0	0	0	0	0
7/15/2024 22:54	47101	MARL_T1	48	42	-6	1.05	1.02	-0.03	-1.52	-1.63	2	2	0	1200	1200	0
7/15/2024 22:54	56801	BENV_T1	8	8	0	0.91	0.86	-0.05	-0.76	-0.18	2	1	-1	1200	600	-600
7/15/2024 22:54	42901	MIDD_T2	3	2	-1	0.83	0.35	-0.48	0	0	0	0	0	0	0	0
7/15/2024 22:54	44801	EDAN_T2	1	1	0	0.5	0.3	-0.2	-1.25	-1.29	0	0	0	0	0	0
7/15/2024 22:55	45303	WBER_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/15/2024 22:55	43202	MVIL_T2	22	20	-2	0.26	0.29	0.03	-0.47	-0.51	0	0	0	0	0	0
7/15/2024 22:55	45302	WBER_T2	0	0	0	0	0	0	1.45	1.31	0	0	0	0	0	0
7/15/2024 22:55	40901	JESH_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
7/15/2024 22:55	47104	MARL_T1	13	7	-6	0.59	0.1	-0.49	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/15/2024 22:55	52402	GRPA_T2	0	3	3	0	0.2	0.2	-0.54	-0.58	0	0	0	0	0	0
7/15/2024 22:55	40101	HUNT_T2	27	11	-16	0.59	0.28	-0.31	-1.34	-1.38	0	0	0	0	0	0
7/15/2024 22:55	46206	DANV_T2	14	29	15	0.49	0.54	0.05	0	0	0	0	0	0	0	0
7/15/2024 22:55	57702	PAXT_T1	0	0	0	0	0	0	-0.49	-0.54	0	0	0	0	0	0
7/15/2024 22:55	49802	UNIV_T1	0	1	1	0	0	0	1.09	1.07	0	0	0	0	0	0
7/15/2024 22:55	40902	JESH_T1	1	0	-1	0.5	0	-0.5	-0.72	-0.76	1	1	0	600	600	0
7/15/2024 22:55	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:55	46301	ROHR_T1	3	4	1	0.1	0.1	0	0	0	0	0	0	0	0	0
7/15/2024 22:55	52403	GRPA_T2	10	24	14	0.76	0.73	-0.03	0	0	0	0	0	0	0	0
7/15/2024 22:55	46203	DANV_T2	6	0	-6	0.48	0	-0.48	-0.1	-2.89	0	0	0	0	0	0
7/15/2024 22:55	46302	ROHR_T1	4	4	0	1.13	1.48	0.35	0.34	0.33	0	0	0	0	0	0
7/15/2024 22:55	43301	WATS_T2	0	0	0	0	0	0	-0.23	-0.27	1	1	0	900	900	0
7/15/2024 22:55	52002	LING_T2	0	0	0	0	0	0	0.04	-0.01	1	1	0	900	900	0
7/15/2024 22:55	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/15/2024 22:55	43304	WATS_T2	6	10	4	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/15/2024 22:55	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/15/2024 22:55	54701	NEBL_T1	2	1	-1	0.55	1	0.45	0	0	1	1	0	600	600	0
7/15/2024 22:55	42201	SHEN_T2	0	0	0	0	0	0	0.2	0.17	1	1	0	600	600	0
7/15/2024 22:55	47401	PENS_T1	1	0	-1	0.2	0	-0.2	1.29	1.13	0	0	0	0	0	0
7/15/2024 22:55	59101	WALK_T2	0	0	0	0	0	0	0.47	0.34	0	0	0	0	0	0
7/15/2024 22:55	57401	SPAN_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/15/2024 22:55	47101	MARL_T1	48	42	-6	1.05	1.02	-0.03	-0.76	-0.82	1	1	0	600	600	0
7/15/2024 22:56	40101	HUNT_T2	27	11	-16	0.59	0.28	-0.31	-2.68	-2.76	0	0	0	0	0	0
7/15/2024 22:56	52002	LING_T2	0	0	0	0	0	0	0.07	-0.03	2	2	0	1800	1800	0
7/15/2024 22:56	41901	REED_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/15/2024 22:56	56801	BENV_T1	8	8	0	0.91	0.86	-0.05	-1.53	-0.36	4	2	-2	2400	1200	-1200
7/15/2024 22:56	41902	REED_T1	19	7	-12	0.54	0.6	0.06	0.56	0.58	1	1	0	900	900	0
7/15/2024 22:56	56803	BENV_T1	4	4	0	2.95	1.33	-1.62	0	0	0	0	0	0	0	0
7/15/2024 22:57	46301	ROHR_T1	3	4	1	0.1	0.1	0	0	0	0	0	0	0	0	0
7/15/2024 22:57	41901	REED_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/15/2024 22:57	41902	REED_T1	19	7	-12	0.54	0.6	0.06	0.56	0.58	1	1	0	900	900	0
7/15/2024 22:57	46302	ROHR_T1	4	4	0	1.13	1.48	0.35	0.34	0.33	0	0	0	0	0	0
7/15/2024 22:58	43304	WATS_T2	6	10	4	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/15/2024 22:58	44301	BEAV_T2	1	1	0	1	0.4	-0.6	0.07	0.09	1	1	0	600	600	0
7/15/2024 22:58	41902	REED_T1	19	7	-12	0.54	0.6	0.06	0	0	0	0	0	0	0	0
7/15/2024 22:58	41901	REED_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/15/2024 22:58	47401	PENS_T1	1	0	-1	0.2	0	-0.2	0.65	0.56	0	0	0	0	0	0
7/15/2024 22:58	52403	GRPA_T2	10	24	14	0.76	0.73	-0.03	-0.5	-0.53	0	0	0	0	0	0
7/15/2024 22:58	43301	WATS_T2	0	0	0	0	0	0	-0.23	-0.27	1	1	0	900	900	0
7/15/2024 22:58	52402	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/15/2024 22:58	41903	REED_T1	0	0	0	0	0	0	0.45	0.44	1	1	0	1200	1200	0
7/15/2024 22:59	52403	GRPA_T2	10	24	14	0.76	0.73	-0.03	0	0	0	0	0	0	0	0
7/15/2024 22:59	52402	GRPA_T2	0	3	3	0	0.2	0.2	-0.54	-0.58	0	0	0	0	0	0
7/15/2024 23:14	67605	WARW_T1	3	3	0	0.9	0.63	-0.27	-0.64	-0.71	0	0	0	0	0	0
7/15/2024 23:15	67605	WARW_T1	3	1	-2	0.63	0.8	0.17	-0.64	-0.71	0	0	0	0	0	0
7/15/2024 23:33	64203	KINZ_T1	0	0	0	0	0	0	0.09	0.13	1	1	0	600	600	0
7/15/2024 23:33	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/15/2024 23:33	64204	KINZ_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/15/2024 23:34	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/15/2024 23:34	64204	KINZ_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/15/2024 23:34	64203	KINZ_T1	0	0	0	0	0	0	0.09	0.13	1	1	0	600	600	0
7/15/2024 23:36	67605	WARW_T1	1	1	0	0.7	0.8	0.1	-0.71	-0.73	0	0	0	0	0	0
7/15/2024 23:37	67605	WARW_T1	1	1	0	0.7	0.8	0.1	-0.73	-0.8	0	0	0	0	0	0
7/15/2024 23:58	67605	WARW_T1	1	1	0	0.8	0.6	-0.2	-0.8	-0.81	0	0	0	0	0	0
7/15/2024 23:59	67605	WARW_T1	1	1	0	0.8	0.6	-0.2	-0.8	-0.81	0	0	0	0	0	0
7/16/2024 0:08	15203	SFAR_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/16/2024 0:40	64204	KINZ_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
7/16/2024 0:40	64203	KINZ_T1	0	0	0	0	0	0	0.02	0	1	1	0	600	600	0
7/16/2024 0:40	64201	KINZ_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
7/16/2024 0:40	64202	KINZ_T1	2	3	1	0.25	0.33	0.08	0	0	0	0	0	0	0	0
7/16/2024 0:41	64204	KINZ_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
7/16/2024 0:41	64202	KINZ_T1	2	3	1	0.25	0.33	0.08	0	0	0	0	0	0	0	0
7/16/2024 0:41	64203	KINZ_T1	0	0	0	0	0	0	0.02	0	1	1	0	600	600	0
7/16/2024 0:41	64201	KINZ_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
7/16/2024 1:05	67605	WARW_T1	1	2	1	0.7	0.9	0.2	-0.8	-0.81	0	0	0	0	0	0
7/16/2024 1:06	67605	WARW_T1	1	2	1	0.7	0.9	0.2	-0.8	-0.81	0	0	0	0	0	0
7/16/2024 1:25	64203	KINZ_T1	0	0	0	0	0	0	0.12	0.11	1	1	0	600	600	0
7/16/2024 1:25	64202	KINZ_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
7/16/2024 1:25	64201	KINZ_T1	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
7/16/2024 1:25	64204	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/16/2024 1:26	64201	KINZ_T1	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
7/16/2024 1:26	64204	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/16/2024 1:26	64203	KINZ_T1	0	0	0	0	0	0	0.12	0.11	1	1	0	600	600	0
7/16/2024 1:26	64202	KINZ_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
7/16/2024 1:45	64203	KINZ_T1	0	0	0	0	0	0	0.11	0.1	1	1	0	600	600	0
7/16/2024 1:45	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/16/2024 1:45	64204	KINZ_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
7/16/2024 1:45	64201	KINZ_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
7/16/2024 1:46	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/16/2024 1:46	64201	KINZ_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
7/16/2024 1:46	64203	KINZ_T1	0	0	0	0	0	0	0.11	0.1	1	1	0	600	600	0
7/16/2024 1:46	64204	KINZ_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
7/16/2024 5:08	65901	SAKR_T2	1	1	0	7.7	7.5	-0.2	-0.55	-0.46	1	1	0	900	900	0
7/16/2024 5:36	22001	BOHE_T1	77	117	40	0.14	0.2	0.06	0	0	0	0	0	0	0	0
7/16/2024 5:36	22003	BOHE_T1	285	347	62	0.6	0.64	0.04	0	0	0	0	0	0	0	0
7/16/2024 5:36	22002	BOHE_T1	2	6	4	0.1	0.17	0.07	0.39	0.39	0	0	0	0	0	0
7/16/2024 6:41	24902	WHHA_T1	1	1	0	0.6	0.6	0	0.86	0.86	0	0	0	0	0	0
7/16/2024 6:42	11102	EGYP_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/16/2024 6:42	11103	EGYP_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
7/16/2024 6:51	44201	POIN_T1	0	0	0	0	0	0	-1.06	-1.02	2	2	0	2100	2100	0
7/16/2024 6:54	14601	SWHI_T1	0	0	0	0	0	0	-2.47	-2.49	0	0	0	0	0	0
7/16/2024 7:00	64204	KINZ_T1	2	1	-1	0.45	1	0.55	0	0	0	0	0	0	0	0
7/16/2024 7:00	64203	KINZ_T1	0	0	0	0	0	0	0.44	0.44	3	3	0	2100	2100	0
7/16/2024 7:07	43304	WATS_T2	0	1	1	0	0	0	-0.19	-0.2	0	0	0	0	0	0
7/16/2024 7:08	61102	BERK_T5	0	0	0	0	0	0	0.41	0.94	1	1	0	300	300	0
7/16/2024 7:09	61103	BERK_T5	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
7/16/2024 7:12	54505	ENOL_T2	0	0	0	0	0	0	-1.16	-1.08	1	1	0	600	600	0
7/16/2024 7:29	21206	ECAR_T2	47	6	-41	0.57	2.53	1.96	0.65	0.64	0	0	0	0	0	0
7/16/2024 7:29	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 7:31	13501	MCMI_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
7/16/2024 7:45	40101	HUNT_T2	2	61	59	0.55	0.33	-0.22	-0.33	-0.23	0	0	0	0	0	0
7/16/2024 7:53	14601	SWHI_T1	0	0	0	0	0	0	-2.36	-2.32	0	0	0	0	0	0
7/16/2024 7:55	14601	SWHI_T1	0	0	0	0	0	0	-2.36	-2.32	0	0	0	0	0	0
7/16/2024 7:57	22903	HARW_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/16/2024 7:57	22901	HARW_T1	0	13	13	0	0	0	0.15	0.08	1	1	0	1200	1200	0
7/16/2024 7:58	24201	PROV_T3	1	1	0	8	7.4	-0.6	-0.97	-0.9	1	1	0	1200	1200	0
7/16/2024 7:58	24204	PROV_T3	1	1	0	6.9	6.5	-0.4	0	0	0	0	0	0	0	0
7/16/2024 8:00	22901	HARW_T1	13	0	-13	0.46	0	-0.46	0.15	0.08	1	1	0	1200	1200	0
7/16/2024 8:00	22903	HARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/16/2024 8:06	56501	ROCK_T2	1	1	0	0.6	0.1	-0.5	-2.82	-2.77	0	0	0	0	0	0
7/16/2024 8:06	14404	SSLA_T1	2	2	0	2.45	2.25	-0.2	0	0	0	0	0	0	0	0
7/16/2024 8:06	14401	SSLA_T1	0	0	0	0	0	0	-1.01	-1.01	2	2	0	1800	1800	0
7/16/2024 8:07	67605	WARW_T1	0	0	0	0	0	0	-0.75	-0.92	0	0	0	0	0	0
7/16/2024 8:09	56802	BENV_T2	0	2	2	0	0.1	0.1	-0.96	-0.89	0	0	0	0	0	0
7/16/2024 8:10	56802	BENV_T2	0	2	2	0	0.1	0.1	-0.96	-0.89	0	0	0	0	0	0
7/16/2024 8:11	56802	BENV_T2	0	2	2	0	0.1	0.1	-0.96	-0.89	0	0	0	0	0	0
7/16/2024 8:12	56802	BENV_T2	0	2	2	0	0.1	0.1	-0.96	-0.89	0	0	0	0	0	0
7/16/2024 8:20	61801	EELI_T2	0	0	0	0	0	0	-0.16	-0.1	1	1	0	600	600	0
7/16/2024 8:20	56501	ROCK_T2	1	1	0	0.2	0	-0.2	-2.77	-2.69	0	0	0	0	0	0
7/16/2024 8:22	56501	ROCK_T2	1	1	0	0.2	0	-0.2	-1.35	-1.32	0	0	0	0	0	0
7/16/2024 8:24	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 8:25	24902	WHHA_T1	0	2	2	0	0.4	0.4	0.97	0.97	0	0	0	0	0	0
7/16/2024 8:27	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 8:35	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 8:36	43304	WATS_T2	0	0	0	0	0	0	0.02	-0.55	0	0	0	0	0	0
7/16/2024 8:36	43302	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 8:38	43302	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 8:38	43304	WATS_T2	0	0	0	0	0	0	0.02	-0.55	0	1	1	0	600	600
7/16/2024 8:40	46206	DANV_T2	52	59	7	0.76	0.77	0.01	2.31	2.26	1	1	0	1200	1200	0
7/16/2024 8:40	46204	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/16/2024 8:45	24702	FLND_T2	1	11	10	0.3	0.16	-0.14	0.45	0.29	1	1	0	1200	1200	0
7/16/2024 8:49	67605	WARW_T1	0	0	0	0	0	0	-1.12	-1.04	0	0	0	0	0	0
7/16/2024 8:50	67605	WARW_T1	0	0	0	0	0	0	-1.12	-1.04	0	0	0	0	0	0
7/16/2024 8:56	20402	ASHF_T2	7	7	0	1.6	0.92	-0.68	0	0	0	0	0	0	0	0
7/16/2024 8:56	20403	ASHF_T2	8	14	6	0.96	0.84	-0.12	1.85	1.73	0	0	0	0	0	0
7/16/2024 8:56	20401	ASHF_T2	5	5	0	1.12	1.28	0.16	0	0	0	0	0	0	0	0
7/16/2024 8:57	20401	ASHF_T2	5	5	0	1.12	1.28	0.16	0	0	0	0	0	0	0	0
7/16/2024 8:57	20403	ASHF_T2	8	14	6	0.96	0.84	-0.12	1.85	1.73	0	0	0	0	0	0
7/16/2024 8:57	20402	ASHF_T2	7	7	0	1.6	0.92	-0.68	0	0	0	0	0	0	0	0
7/16/2024 8:58	11104	EGYP_T1	0	1	1	0	0	0	1.18	1.15	0	0	0	0	0	0
7/16/2024 8:58	11101	EGYP_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/16/2024 8:58	11102	EGYP_T1	2	3	1	0.95	0.87	-0.08	0	0	0	0	0	0	0	0
7/16/2024 8:59	46204	DANV_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/16/2024 8:59	46206	DANV_T2	53	65	12	0.78	0.98	0.2	2.26	2.31	1	1	0	1200	1200	0
7/16/2024 8:59	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/16/2024 8:59	29402	BELT_T1	1	1	0	7.3	7.6	0.3	0	0	0	0	0	0	0	0
7/16/2024 9:00	11104	EGYP_T1	0	1	1	0	0	0	1.18	1.15	0	0	0	0	0	0
7/16/2024 9:00	11102	EGYP_T1	3	3	0	0.9	1.07	0.17	0	0	0	0	0	0	0	0
7/16/2024 9:00	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 9:00	13503	MCMI_T2	1	45	44	0.3	0.22	-0.08	-0.53	-0.7	0	0	0	0	0	0
7/16/2024 9:00	11101	EGYP_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
7/16/2024 9:03	13503	MCMI_T2	1	45	44	0.3	0.22	-0.08	-0.53	-0.7	0	0	0	0	0	0
7/16/2024 9:05	13503	MCMI_T2	1	45	44	0.3	0.22	-0.08	-0.53	-0.7	0	0	0	0	0	0
7/16/2024 9:05	41902	REED_T1	1	9	8	0.3	0.3	0	0.61	0.66	1	1	0	900	900	0
7/16/2024 9:05	41903	REED_T1	6	5	-1	1.5	1.28	-0.22	0	0	0	0	0	0	0	0
7/16/2024 9:07	41903	REED_T1	6	5	-1	1.5	1.28	-0.22	0	0	0	0	0	0	0	0
7/16/2024 9:07	41902	REED_T1	1	9	8	0.3	0.3	0	0.66	0.65	1	1	0	900	900	0
7/16/2024 9:09	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 9:09	14601	SWHI_T1	0	0	0	0	0	0	-4.14	-4.1	0	0	0	0	0	0
7/16/2024 9:11	56801	BENV_T1	6	2	-4	0.42	0.35	-0.07	-0.32	-0.28	1	1	0	600	600	0
7/16/2024 9:11	56803	BENV_T1	5	5	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/16/2024 9:11	67605	WARW_T1	0	0	0	0	0	0	-0.99	-1	0	0	0	0	0	0
7/16/2024 9:13	60502	NMAN_T2	0	0	0	0	0	0	0.84	0.29	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/16/2024 9:15	52402	GRPA_T2	3	4	1	0.27	0.4	0.13	0	0	0	0	0	0	0	0
7/16/2024 9:15	52404	GRPA_T2	0	3	3	0	0	0	1.41	2.24	0	0	0	0	0	0
7/16/2024 9:15	60502	NMAN_T2	0	0	0	0	0	0	0.84	0.29	0	0	0	0	0	0
7/16/2024 9:15	52403	GRPA_T2	8	17	9	0.55	0.61	0.06	0	0	0	0	0	0	0	0
7/16/2024 9:20	40101	HUNT_T2	167	205	38	0.76	0.69	-0.07	-0.26	-0.26	0	0	0	0	0	0
7/16/2024 9:21	67203	TEHI_T1	7	51	44	0.71	0.77	0.06	3.37	3.35	3	3	0	2100	2100	0
7/16/2024 9:21	67201	TEHI_T1	2	30	28	0.7	0.81	0.11	0	0	0	0	0	0	0	0
7/16/2024 9:23	61102	BERK_T5	0	0	0	0	0	0	1.39	1.35	1	1	0	300	300	0
7/16/2024 9:24	61102	BERK_T5	0	0	0	0	0	0	4.18	4.04	3	3	0	900	900	0
7/16/2024 9:25	24902	WHHA_T1	1	7	6	1	0.67	-0.33	1.07	1.03	0	0	0	0	0	0
7/16/2024 9:25	20403	ASHF_T2	14	20	6	0.97	0.85	-0.12	3.71	3.8	0	0	0	0	0	0
7/16/2024 9:25	20402	ASHF_T2	6	6	0	0.92	0.3	-0.62	0	0	0	0	0	0	0	0
7/16/2024 9:25	20401	ASHF_T2	5	6	1	1.54	1.46	-0.08	0	0	0	0	0	0	0	0
7/16/2024 9:26	61102	BERK_T5	0	0	0	0	0	0	1.39	1.35	1	1	0	300	300	0
7/16/2024 9:28	61102	BERK_T5	0	0	0	0	0	0	2.79	2.7	2	2	0	600	600	0
7/16/2024 9:29	22003	BOHE_T1	97	45	-52	0.22	0.2	-0.02	-0.1	-0.12	0	0	0	0	0	0
7/16/2024 9:32	40101	HUNT_T2	155	193	38	0.69	0.53	-0.16	-0.26	-0.98	0	0	0	0	0	0
7/16/2024 9:33	64101	REFR_T1	10	5	-5	0.53	0.57	0.04	0.45	0.47	0	0	0	0	0	0
7/16/2024 9:34	64101	REFR_T1	10	5	-5	0.53	0.57	0.04	0.9	0.94	0	0	0	0	0	0
7/16/2024 9:35	64101	REFR_T1	10	5	-5	0.53	0.57	0.04	0.9	0.94	0	0	0	0	0	0
7/16/2024 9:37	64101	REFR_T1	10	5	-5	0.53	0.57	0.04	0.47	-0.08	0	0	0	0	0	0
7/16/2024 9:38	64101	REFR_T1	10	5	-5	0.53	0.57	0.04	0.47	-0.08	0	0	0	0	0	0
7/16/2024 9:41	64101	REFR_T1	10	5	-5	0.53	0.57	0.04	0.47	-0.08	0	0	0	0	0	0
7/16/2024 9:41	56803	BENV_T1	5	8	3	1.72	1.35	-0.37	0.54	0.46	1	1	0	600	600	0
7/16/2024 9:42	41602	CLEV_T1	5	5	0	0.64	1.2	0.56	0	0	1	1	0	600	600	0
7/16/2024 9:46	64204	KINZ_T1	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
7/16/2024 9:46	64201	KINZ_T1	2	4	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/16/2024 9:46	64203	KINZ_T1	3	3	0	1.83	2.6	0.77	0.68	0.95	3	3	0	2100	2100	0
7/16/2024 9:46	20601	GRWO_T2	121	142	21	0.82	0.74	-0.08	0.69	0.76	0	0	0	0	0	0
7/16/2024 9:47	64204	KINZ_T1	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
7/16/2024 9:47	64203	KINZ_T1	3	3	0	1.83	2.6	0.77	0.68	0.95	3	3	0	2100	2100	0
7/16/2024 9:47	64201	KINZ_T1	2	4	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/16/2024 9:48	64201	KINZ_T1	2	4	2	0.2	0	-0.2	-0.77	-0.66	5	5	0	3300	3300	0
7/16/2024 9:48	64204	KINZ_T1	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
7/16/2024 9:48	64203	KINZ_T1	3	3	0	1.83	2.6	0.77	0	0	0	0	0	0	0	0
7/16/2024 9:52	67605	WARW_T1	0	0	0	0	0	0	-1.74	-1.75	0	0	0	0	0	0
7/16/2024 9:53	55101	WERT_T1	6	17	11	0.38	0.41	0.03	-3.2	-2.79	8	8	0	6600	6600	0
7/16/2024 9:56	56802	BENV_T2	0	0	0	0	0	0	-0.79	-0.74	0	0	0	0	0	0
7/16/2024 9:56	55101	WERT_T1	6	17	11	0.38	0.41	0.03	-1.6	-1.39	4	4	0	3300	3300	0
7/16/2024 9:57	56802	BENV_T2	0	0	0	0	0	0	-0.79	-0.74	0	0	0	0	0	0
7/16/2024 9:57	55101	WERT_T1	6	17	11	0.38	0.41	0.03	-3.2	-2.79	8	8	0	6600	6600	0
7/16/2024 9:58	20601	GRWO_T2	121	142	21	0.82	0.74	-0.08	0.76	0.75	0	0	0	0	0	0
7/16/2024 10:00	45802	HEGI_T2	54	65	11	0.5	0.5	0	1.42	1.25	4	4	0	2400	2400	0
7/16/2024 10:00	14404	SSLA_T1	4	6	2	0.85	1.05	0.2	0	0	0	0	0	0	0	0
7/16/2024 10:00	41901	REED_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/16/2024 10:00	59202	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/16/2024 10:00	41902	REED_T1	29	37	8	0.53	0.48	-0.05	0.63	0.78	1	1	0	900	900	0
7/16/2024 10:00	43202	MVIL_T2	0	0	0	0	0	0	-0.12	-1.21	0	0	0	0	0	0
7/16/2024 10:00	64302	LINC_T2	8	17	9	0.66	0.56	-0.1	1.76	1.88	0	0	0	0	0	0
7/16/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
7/16/2024 10:00	14602	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 10:00	14605	SWHI_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/16/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-1.91	-1.86	0	0	0	0	0	0
7/16/2024 10:00	61102	BERK_T5	0	0	0	0	0	0	0.5	0.53	2	2	0	1200	1200	0
7/16/2024 10:00	47101	MARL_T1	51	63	12	0.86	0.78	-0.08	-0.59	-0.47	1	1	0	600	600	0
7/16/2024 10:00	14403	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 10:00	47104	MARL_T1	1	0	-1	3.4	0	-3.4	0	0	0	0	0	0	0	0
7/16/2024 10:00	65604	QVIL_T2	0	1	1	0	0	0	1.09	1.07	0	0	0	0	0	0
7/16/2024 10:00	40503	CRES_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 10:00	47401	PENS_T1	7	12	5	0.87	0.88	0.01	0.42	0.84	0	0	0	0	0	0
7/16/2024 10:00	14401	SSLA_T1	0	1	1	0	0	0	-0.83	-0.79	2	2	0	1800	1800	0
7/16/2024 10:00	40504	CRES_T1	13	13	0	1.49	1.34	-0.15	0	0	0	0	0	0	0	0
7/16/2024 10:00	40505	CRES_T1	3	3	0	0.9	1.2	0.3	0.94	1.02	0	0	0	0	0	0
7/16/2024 10:00	10602	BLGL_T2	8	7	-1	1.26	2.53	1.27	0.88	0.89	0	0	0	0	0	0
7/16/2024 10:00	64101	REFR_T1	6	12	6	2.05	0.77	-1.28	-0.5	-0.22	0	0	0	0	0	0
7/16/2024 10:00	41903	REED_T1	4	4	0	1.03	1.1	0.07	0	0	0	0	0	0	0	0
7/16/2024 10:04	43202	MVIL_T2	0	0	0	0	0	0	-0.06	-0.6	0	0	0	0	0	0
7/16/2024 10:05	65802	RTWN_T2	1	0	-1	0.1	0	-0.1	-0.33	-0.37	0	0	0	0	0	0
7/16/2024 10:06	67503	WEWI_T2	0	0	0	0	0	0	0.04	0.08	0	0	0	0	0	0
7/16/2024 10:06	47401	PENS_T1	7	12	5	0.87	0.88	0.01	0.84	0.55	0	0	0	0	0	0
7/16/2024 10:07	47104	MARL_T1	1	0	-1	3.4	0	-3.4	0	0	0	0	0	0	0	0
7/16/2024 10:07	65604	QVIL_T2	0	1	1	0	0	0	1.07	1.1	0	0	0	0	0	0
7/16/2024 10:07	67605	WARW_T1	0	0	0	0	0	0	-0.88	-0.79	0	0	0	0	0	0
7/16/2024 10:07	64101	REFR_T1	6	12	6	2.05	0.77	-1.28	-0.07	0	0	0	0	0	0	0
7/16/2024 10:07	47101	MARL_T1	51	63	12	0.86	0.78	-0.08	-0.47	-0.53	1	1	0	600	600	0
7/16/2024 10:08	61102	BERK_T5	0	0	0	0	0	0	0.53	0.04	2	2	0	1200	1200	0
7/16/2024 10:08	50701	SMEC_T1	0	1	1	0	0.1	0.1	-0.82	-0.76	1	1	0	1200	1200	0
7/16/2024 10:08	67605	WARW_T1	0	0	0	0	0	0	-1.75	-1.58	0	0	0	0	0	0
7/16/2024 10:08	41901	REED_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/16/2024 10:08	41902	REED_T1	29	37	8	0.53	0.48	-0.05	0.78	0.81	1	1	0	900	900	0
7/16/2024 10:08	41903	REED_T1	4	4	0	1.03	1.1	0.07	0	0	0	0	0	0	0	0
7/16/2024 10:09	20402	ASHF_T2	6	9	3	1	1.23	0.23	0	0	0	0	0	0	0	0
7/16/2024 10:09	50701	SMEC_T1	0	1	1	0	0.1	0.1	-0.82	-0.76	1	1	0	1200	1200	0
7/16/2024 10:09	20403	ASHF_T2	14	20	6	0.67	0.23	-0.44	0.92	1.24	0	0	0	0	0	0
7/16/2024 10:09	44301	BEAV_T2	15	18	3	0.61	0.52	-0.09	0.75	0.95	2	2	0	1500	1500	0
7/16/2024 10:09	24901	WHHA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/16/2024 10:09	29402	BELT_T1	11	12	1	1.1	1.08	-0.02	0	0	0	0	0	0	0	0
7/16/2024 10:09	29401	BELT_T1	24	13	-11	0.23	0.19	-0.04	0	0	0	0	0	0	0	0
7/16/2024 10:09	24902	WHHA_T1	5	38	33	0.64	0.58	-0.06	1.15	1.07	0	0	0	0	0	0
7/16/2024 10:09	20401	ASHF_T2	5	8	3	2.22	2.32	0.1	0	0	0	0	0	0	0	0
7/16/2024 10:09	59202	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/16/2024 10:10	14602	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 10:10	14605	SWHI_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/16/2024 10:10	14601	SWHI_T1	0	0	0	0	0	0	-1.86	-1.76	0	0	0	0	0	0
7/16/2024 10:10	29402	BELT_T1	11	12	1	1.1	1.08	-0.02	0	0	0	0	0	0	0	0
7/16/2024 10:10	29401	BELT_T1	24	13	-11	0.23	0.19	-0.04	0	0	0	0	0	0	0	0
7/16/2024 10:10	20402	ASHF_T2	6	9	3	1	1.23	0.23	0	0	0	0	0	0	0	0
7/16/2024 10:10	58003	WCAR_T1	1	3	2	0.6	0.33	-0.27	0.43	0.49	1	1	0	600	600	0
7/16/2024 10:10	61102	BERK_T5	0	0	0	0	0	0	1.59	0.13	6	6	0	3600	3600	0
7/16/2024 10:10	20401	ASHF_T2	5	8	3	2.22	2.32	0.1	0.63	0.79	0	0	0	0	0	0
7/16/2024 10:10	20403	ASHF_T2	14	20	6	0.67	0.23	-0.44	0.92	1.24	0	0	0	0	0	0
7/16/2024 10:10	58001	WCAR_T1	3	3	0	0.2	0.23	0.03	0	0	0	0	0	0	0	0
7/16/2024 10:11	46206	DANV_T2	93	92	-1	0.96	0.5	-0.46	0	0	0	0	0	0	0	0
7/16/2024 10:11	61102	BERK_T5	0	0	0	0	0	0	1.59	0.13	6	6	0	3600	3600	0
7/16/2024 10:11	46205	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/16/2024 10:11	46203	DANV_T2	1	1	0	0.1	0	-0.1	-1.21	-1.2	0	0	0	0	0	0
7/16/2024 10:11	46204	DANV_T2	23	24	1	0.5	0.21	-0.29	0	0	0	0	0	0	0	0
7/16/2024 10:12	46205	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/16/2024 10:12	46204	DANV_T2	23	24	1	0.5	0.21	-0.29	0	0	0	0	0	0	0	0
7/16/2024 10:12	20601	GRWO_T2	126	144	18	0.77	0.87	0.1	0.75	0.78	0	0	0	0	0	0
7/16/2024 10:12	29402	BELT_T1	11	12	1	1.1	1.08	-0.02	0	0	0	0	0	0	0	0
7/16/2024 10:12	46203	DANV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/16/2024 10:12	29401	BELT_T1	24	13	-11	0.23	0.19	-0.04	0	0	0	0	0	0	0	0
7/16/2024 10:12	46206	DANV_T2	93	92	-1	0.96	0.5	-0.46	2.63	2.77	1	1	0	1200	1200	0
7/16/2024 10:13	52403	GRPA_T2	53	74	21	0.67	0.62	-0.05	0	0	0	0	0	0	0	0
7/16/2024 10:13	52401	GRPA_T2	0	9	9	0	0.32	0.32	0	0	0	0	0	0	0	0
7/16/2024 10:13	52402	GRPA_T2	1	4	3	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/16/2024 10:13	52404	GRPA_T2	0	1	1	0	0	0	0.53	0.65	0	0	0	0	0	0
7/16/2024 10:14	64203	KINZ_T1	3	10	7	2.17	2.6	0.43	0	0	0	0	0	0	0	0
7/16/2024 10:14	29401	BELT_T1	24	13	-11	0.23	0.19	-0.04	0	0	0	0	0	0	0	0
7/16/2024 10:14	64202	KINZ_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 10:14	64204	KINZ_T1	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
7/16/2024 10:14	64201	KINZ_T1	2	12	10	0.15	0	-0.15	-0.51	-0.56	5	5	0	3300	3300	0
7/16/2024 10:14	29402	BELT_T1	11	12	1	1.1	1.08	-0.02	0	0	0	0	0	0	0	0
7/16/2024 10:14	41602	CLEV_T1	5	22	17	0.72	0.52	-0.2	0	0	1	1	0	600	600	0
7/16/2024 10:16	47101	MARL_T1	62	47	-15	0.76	0.76	0	-0.47	-0.53	1	1	0	600	600	0
7/16/2024 10:17	53502	EVIL_T2	14	16	2	0.77	0.82	0.05	0	0	0	0	0	0	0	0
7/16/2024 10:17	13503	MCMI_T2	2	6	4	0.55	0.47	-0.08	-0.61	-0.61	0	0	0	0	0	0
7/16/2024 10:17	52402	GRPA_T2	3	4	1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/16/2024 10:17	52401	GRPA_T2	9	14	5	0.28	0.38	0.1	0	0	0	0	0	0	0	0
7/16/2024 10:17	52404	GRPA_T2	0	1	1	0	0.3	0.3	0.53	0.65	0	0	0	0	0	0
7/16/2024 10:17	52403	GRPA_T2	17	111	94	0.62	0.61	-0.01	0	0	0	0	0	0	0	0
7/16/2024 10:17	53501	EVIL_T2	4	5	1	0.78	0.67	-0.11	-0.95	-0.97	4	4	0	2300	2300	0
7/16/2024 10:18	13503	MCMI_T2	2	6	4	0.55	0.47	-0.08	-0.61	-0.61	0	0	0	0	0	0
7/16/2024 10:18	12301	LANA_T2	0	0	0	0	0	0	-0.74	-0.92	1	1	0	1200	1200	0
7/16/2024 10:18	12305	LANA_T2	5	6	1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
7/16/2024 10:18	12304	LANA_T2	7	15	8	0.5	0.46	-0.04	0	0	0	0	0	0	0	0
7/16/2024 10:18	64101	REFR_T1	3	12	9	0.77	0.73	-0.04	-0.04	0	0	0	0	0	0	0
7/16/2024 10:18	63403	HONY_T2	0	0	0	0	0	0	-0.12	-1.19	1	1	0	600	600	0
7/16/2024 10:19	13503	MCMI_T2	2	6	4	0.55	0.47	-0.08	-0.61	-0.61	0	0	0	0	0	0
7/16/2024 10:19	47101	MARL_T1	62	47	-15	0.76	0.76	0	-0.47	-0.53	1	1	0	600	600	0
7/16/2024 10:19	13502	MCMI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/16/2024 10:20	47101	MARL_T1	62	47	-15	0.76	0.76	0	-0.47	-0.53	1	1	0	600	600	0
7/16/2024 10:21	55408	SHER_T2	2	2	0	0.65	0.75	0.1	-0.94	-0.94	1	1	0	1200	1200	0
7/16/2024 10:21	43304	WATS_T2	1	3	2	0.1	0.4	0.3	-0.31	-0.3	1	1	0	600	600	0
7/16/2024 10:21	47101	MARL_T1	62	47	-15	0.76	0.76	0	-0.47	-0.53	1	1	0	600	600	0
7/16/2024 10:22	66504	SMAN_T2	0	0	0	0	0	0	0.04	0.08	0	0	0	0	0	0
7/16/2024 10:22	66505	SMAN_T2	1	2	1	0.7	1.5	0.8	0	0	0	0	0	0	0	0
7/16/2024 10:23	67801	WLAN_T1	18	37	19	0.21	0.37	0.16	-0.54	-0.49	0	0	0	0	0	0
7/16/2024 10:23	55101	WERT_T1	16	62	46	0.4	0.6	0.2	-2.83	-2.77	8	8	0	6600	6600	0
7/16/2024 10:23	55103	WERT_T1	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
7/16/2024 10:23	67804	WLAN_T1	10	10	0	0.68	1.08	0.4	0	0	0	0	0	0	0	0
7/16/2024 10:24	43304	WATS_T2	1	3	2	0.1	0.4	0.3	-0.31	-0.3	1	1	0	600	600	0
7/16/2024 10:25	55101	WERT_T1	16	62	46	0.4	0.6	0.2	-2.83	-2.77	8	8	0	6600	6600	0
7/16/2024 10:25	55103	WERT_T1	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
7/16/2024 10:25	43304	WATS_T2	1	3	2	0.1	0.4	0.3	-0.31	-0.3	1	1	0	600	600	0
7/16/2024 10:25	67605	WARW_T1	0	0	0	0	0	0	-0.79	-0.77	0	0	0	0	0	0
7/16/2024 10:26	44301	BEAV_T2	15	12	-3	0.49	0.82	0.33	0.95	0.76	2	2	0	1500	1500	0
7/16/2024 10:26	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 10:26	43304	WATS_T2	1	3	2	0.1	0.4	0.3	-0.31	-0.3	1	1	0	600	600	0
7/16/2024 10:26	66504	SMAN_T2	0	0	0	0	0	0	0.08	0.16	0	0	0	0	0	0
7/16/2024 10:26	66505	SMAN_T2	1	2	1	0.7	1.5	0.8	0	0	0	0	0	0	0	0
7/16/2024 10:26	67605	WARW_T1	0	0	0	0	0	0	-0.79	-0.77	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/16/2024 10:26	54504	ENOL_T2	0	0	0	0	0	0	-1.21	-1.09	1	1	0	600	600	0
7/16/2024 10:27	55103	WERT_T1	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
7/16/2024 10:27	55101	WERT_T1	16	62	46	0.4	0.6	0.2	-1.41	-1.38	4	4	0	3300	3300	0
7/16/2024 10:27	54503	ENOL_T2	0	0	0	0	0	0	-3.13	-2.91	2	2	0	1200	1200	0
7/16/2024 10:27	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 10:28	44301	BEAV_T2	15	12	-3	0.49	0.82	0.33	0.95	0.76	2	2	0	1500	1500	0
7/16/2024 10:28	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 10:28	54503	ENOL_T2	0	0	0	0	0	0	-1.57	-1.46	1	1	0	600	600	0
7/16/2024 10:28	54504	ENOL_T2	0	0	0	0	0	0	-1.21	-1.09	1	1	0	600	600	0
7/16/2024 10:29	54504	ENOL_T2	0	0	0	0	0	0	-1.21	-1.09	1	1	0	600	600	0
7/16/2024 10:29	20601	GRWO_T2	140	198	58	0.87	1.03	0.16	0	0	0	0	0	0	0	0
7/16/2024 10:29	20603	GRWO_T2	0	0	0	0	0	0	-1.51	-1.46	2	2	0	2100	2100	0
7/16/2024 10:29	54503	ENOL_T2	0	0	0	0	0	0	-3.13	-2.91	2	2	0	1200	1200	0
7/16/2024 10:29	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 10:30	11802	FRAN_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
7/16/2024 10:30	11804	FRAN_T1	225	248	23	1	1.18	0.18	0.6	0.59	1	1	0	1200	1200	0
7/16/2024 10:31	54502	ENOL_T2	0	1	1	0	9.6	9.6	0	0	0	0	0	0	0	0
7/16/2024 10:31	54503	ENOL_T2	0	0	0	0	0	0	-1.57	-1.46	1	1	0	600	600	0
7/16/2024 10:31	64305	LINC_T1	1	1	0	1.6	1.4	-0.2	-0.41	-0.45	0	0	0	0	0	0
7/16/2024 10:31	40902	JESH_T1	2	2	0	0.3	1.5	1.2	0.15	-0.59	2	3	1	1200	1800	600
7/16/2024 10:31	64301	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 10:31	40901	JESH_T1	1	2	1	2.3	2.3	0	0	0	0	0	0	0	0	0
7/16/2024 10:33	54505	ENOL_T2	0	0	0	0	0	0	-0.68	-0.68	1	1	0	600	600	0
7/16/2024 10:33	54502	ENOL_T2	0	1	1	0	9.6	9.6	0	0	0	0	0	0	0	0
7/16/2024 10:33	40101	HUNT_T2	18	61	43	0.26	0.41	0.15	-0.93	-1	0	0	0	0	0	0
7/16/2024 10:34	51003	NHAR_T1	0	0	0	0	0	0	-1.66	-1.64	1	1	0	1200	1200	0
7/16/2024 10:34	51004	NHAR_T1	1	1	0	7.1	7.5	0.4	0	0	0	0	0	0	0	0
7/16/2024 10:35	56504	ROCK_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 10:35	56501	ROCK_T2	7	4	-3	0.29	0.27	-0.02	-2.25	-2.22	0	0	0	0	0	0
7/16/2024 10:35	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 10:36	56504	ROCK_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 10:36	56501	ROCK_T2	7	4	-3	0.29	0.27	-0.02	-2.25	-2.22	0	0	0	0	0	0
7/16/2024 10:36	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 10:38	55101	WERT_T1	16	69	53	0.6	0.52	-0.08	-1.38	-1.3	4	4	0	3300	3300	0
7/16/2024 10:38	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 10:38	61102	BERK_T5	0	0	0	0	0	0	-0.01	0	2	2	0	1200	1200	0
7/16/2024 10:38	56504	ROCK_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 10:38	55103	WERT_T1	1	1	0	2	0.2	-1.8	0	0	0	0	0	0	0	0
7/16/2024 10:38	24902	WHHA_T1	36	75	39	0.5	0.49	-0.01	1.05	1.07	0	0	0	0	0	0
7/16/2024 10:38	56501	ROCK_T2	7	4	-3	0.29	0.27	-0.02	6.67	6.72	0	0	0	0	0	0
7/16/2024 10:39	56504	ROCK_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 10:39	20401	ASHF_T2	6	8	2	2.08	1.44	-0.64	0	0	0	0	0	0	0	0
7/16/2024 10:39	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 10:39	24902	WHHA_T1	36	75	39	0.5	0.49	-0.01	1.05	1.07	0	0	0	0	0	0
7/16/2024 10:39	20402	ASHF_T2	9	28	19	1.86	1.16	-0.7	0	0	0	0	0	0	0	0
7/16/2024 10:39	56802	BENV_T2	0	0	0	0	0	0	-1.33	-1.23	0	0	0	0	0	0
7/16/2024 10:39	56803	BENV_T1	8	13	5	1.63	1.59	-0.04	0	0	0	0	0	0	0	0
7/16/2024 10:39	56501	ROCK_T2	7	4	-3	0.29	0.27	-0.02	-2.22	-2.24	0	0	0	0	0	0
7/16/2024 10:39	20403	ASHF_T2	19	12	-7	0.65	0.66	0.01	2.42	2.25	0	0	0	0	0	0
7/16/2024 10:39	56801	BENV_T1	0	3	3	0	0.47	0.47	-0.11	-0.11	1	1	0	600	600	0
7/16/2024 10:41	56801	BENV_T1	0	3	3	0	0.47	0.47	-0.21	-0.22	2	2	0	1200	1200	0
7/16/2024 10:41	59101	WALK_T2	0	0	0	0	0	0	1.23	0.77	0	1	1	0	600	600
7/16/2024 10:41	56803	BENV_T1	8	13	5	1.63	1.59	-0.04	0	0	0	0	0	0	0	0
7/16/2024 10:41	60701	BREC_T1	15	110	95	0.53	0.45	-0.08	1.17	1.09	4	4	0	2400	2400	0
7/16/2024 10:42	56803	BENV_T1	8	13	5	1.63	1.59	-0.04	0	0	0	0	0	0	0	0
7/16/2024 10:42	56801	BENV_T1	0	3	3	0	0.47	0.47	-0.21	-0.22	2	2	0	1200	1200	0
7/16/2024 10:42	56802	BENV_T2	0	0	0	0	0	0	-1.33	-1.23	0	0	0	0	0	0
7/16/2024 10:43	60701	BREC_T1	15	110	95	0.53	0.45	-0.08	0.58	0.55	2	2	0	1200	1200	0
7/16/2024 10:43	56801	BENV_T1	0	3	3	0	0.47	0.47	-0.21	-0.22	2	2	0	1200	1200	0
7/16/2024 10:43	56802	BENV_T2	0	0	0	0	0	0	-1.33	-1.23	0	0	0	0	0	0
7/16/2024 10:43	56803	BENV_T1	8	13	5	1.63	1.59	-0.04	0	0	0	0	0	0	0	0
7/16/2024 10:44	56801	BENV_T1	0	3	3	0	0.47	0.47	-0.21	-0.22	2	2	0	1200	1200	0
7/16/2024 10:44	56803	BENV_T1	8	13	5	1.63	1.59	-0.04	0	0	0	0	0	0	0	0
7/16/2024 10:45	56801	BENV_T1	0	3	3	0	0.47	0.47	-0.21	-0.22	2	2	0	1200	1200	0
7/16/2024 10:45	56803	BENV_T1	11	13	2	1.52	1.32	-0.2	0	0	0	0	0	0	0	0
7/16/2024 10:46	20601	GRWO_T2	197	231	34	1.16	1.08	-0.08	0.83	0.92	0	0	0	0	0	0
7/16/2024 10:47	42903	MIDD_T2	0	1	1	0	0.6	0.6	1.15	1.21	1	1	0	1200	1200	0
7/16/2024 10:47	42902	MIDD_T2	6	21	15	0.77	0.59	-0.18	0	0	0	0	0	0	0	0
7/16/2024 10:47	42901	MIDD_T2	1	3	2	0.2	0.8	0.6	0	0	0	0	0	0	0	0
7/16/2024 10:48	47401	PENS_T1	7	12	5	0.59	0.67	0.08	0.56	0.67	0	0	0	0	0	0
7/16/2024 10:48	47403	PENS_T1	0	2	2	0	1.7	1.7	0	0	0	0	0	0	0	0
7/16/2024 10:49	25503	MADI_T1	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
7/16/2024 10:49	25501	MADI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/16/2024 10:49	47401	PENS_T1	7	12	5	0.59	0.67	0.08	1.11	1.35	0	0	0	0	0	0
7/16/2024 10:49	47403	PENS_T1	0	2	2	0	1.7	1.7	0	0	0	0	0	0	0	0
7/16/2024 10:50	48301	ORWI_T1	160	188	28	0.46	0.47	0.01	1.37	1.28	0	0	0	0	0	0
7/16/2024 10:51	14404	SSLA_T1	9	11	2	0.82	0.95	0.13	0	0	0	0	0	0	0	0
7/16/2024 10:51	14403	SSLA_T1	0	1	1	0	0.1	0.1	1.29	1.31	1	1	0	600	600	0
7/16/2024 10:51	48301	ORWI_T1	160	188	28	0.46	0.47	0.01	1.37	1.28	0	0	0	0	0	0
7/16/2024 10:54	29401	BELT_T1	2	43	41	0.25	0.79	0.54	0	0	0	0	0	0	0	0
7/16/2024 10:54	29402	BELT_T1	4	5	1	2.7	2.24	-0.46	0	0	0	0	0	0	0	0
7/16/2024 10:54	49803	UNIV_T1	0	0	0	0	0	0	-1.64	-1.61	0	0	0	0	0	0
7/16/2024 10:55	46206	DANV_T2	33	58	25	0.42	0.45	0.03	1.76	1.87	2	2	0	2100	2100	0
7/16/2024 10:55	46203	DANV_T2	0	3	3	0	0.45	0.45	0	0	0	0	0	0	0	0
7/16/2024 10:55	46204	DANV_T2	2	18	16	0.25	0.27	0.02	0	0	0	0	0	0	0	0
7/16/2024 10:56	46206	DANV_T2	33	58	25	0.42	0.45	0.03	0	0	0	0	0	0	0	0
7/16/2024 10:56	46203	DANV_T2	0	3	3	0	0.45	0.45	-1.02	-1.09	0	0	0	0	0	0
7/16/2024 10:56	46204	DANV_T2	2	18	16	0.25	0.27	0.02	0	0	0	0	0	0	0	0
7/16/2024 10:57	46203	DANV_T2	0	3	3	0	0.45	0.45	-1.02	-1.09	0	0	0	0	0	0
7/16/2024 10:57	46206	DANV_T2	33	58	25	0.42	0.45	0.03	0	0	0	0	0	0	0	0
7/16/2024 10:57	46204	DANV_T2	2	18	16	0.25	0.27	0.02	0	0	0	0	0	0	0	0
7/16/2024 10:58	46204	DANV_T2	2	18	16	0.25	0.27	0.02	0	0	0	0	0	0	0	0
7/16/2024 10:58	46206	DANV_T2	33	58	25	0.42	0.45	0.03	0	0	0	0	0	0	0	0
7/16/2024 10:58	54505	ENOL_T2	0	0	0	0	0	0	-1.22	-1.21	2	2	0	1200	1200	0
7/16/2024 10:58	22903	HARW_T1	25	25	0	2.56	1.96	-0.6	0	0	0	0	0	0	0	0
7/16/2024 10:58	60502	NMAN_T2	0	0	0	0	0	0	0.6	0.53	0	0	0	0	0	0
7/16/2024 10:58	22901	HARW_T1	43	25	-18	0.8	0.91	0.11	0.14	0.34	1	1	0	1200	1200	0
7/16/2024 10:58	46203	DANV_T2	0	3	3	0	0.45	0.45	-1.02	-1.09	0	0	0	0	0	0
7/16/2024 10:58	22905	HARW_T1	14	18	4	0.51	0.68	0.17	0	0	0	0	0	0	0	0
7/16/2024 10:59	54505	ENOL_T2	0	0	0	0	0	0	-1.83	-1.82	3	3	0	1800	1800	0
7/16/2024 10:59	54502	ENOL_T2	0	0	0	0	0	0	-2.31	-2.33	1	1	0	600	600	0
7/16/2024 11:00	54505	ENOL_T2	0	0	0	0	0	0	-0.61	-0.61	1	1	0	600	600	0
7/16/2024 11:00	60502	NMAN_T2	0	0	0	0	0	0	0.6	0.53	0	0	0	0	0	0
7/16/2024 11:00	54502	ENOL_T2	0	0	0	0	0	0	-2.31	-2.33	1	1	0	600	600	0
7/16/2024 11:00	54503	ENOL_T2	0	0	0	0	0	0	-1.5	-1.47	1	1	0	600	600	0
7/16/2024 11:00	54504	ENOL_T2	0	0	0	0	0	0	-1.13	-1.11	1	1	0	600	600	0
7/16/2024 11:01	54503	ENOL_T2	0	0	0	0	0	0	-3	-2.94	2	2	0	1200	1200	0
7/16/2024 11:01	54505	ENOL_T2	0	0	0	0	0	0	-0.61	-0.61	1	1	0	600	600	0
7/16/2024 11:03	54505	ENOL_T2	0	0	0	0	0	0	-0.61	-0.61	1	1	0	600	600	0
7/16/2024 11:04	56504	ROCK_T2	0	5	5	0	0	0	0.4	0.46	0	0	0	0	0	0
7/16/2024 11:04	56501	ROCK_T2	2	59	57	0.45	0.21	-0.24	0	0	0	0	0	0	0	0
7/16/2024 11:04	56503	ROCK_T2	1	1	0	2.1	0	-2.1	0	0	0	0	0	0	0	0
7/16/2024 11:05	67201	TEHI_T1	141	111	-30	0.75	0.72	-0.03	1.8	1.64	1	1	0	600	600	0
7/16/2024 11:05	67203	TEHI_T1	51	39	-12	1.03	0.65	-0.38	0	0	0	0	0	0	0	0
7/16/2024 11:06	54701	NEBL_T1	0	9	9	0	0.53	0.53	0	0	1	1	0	600	600	0
7/16/2024 11:08	56501	ROCK_T2	2	59	57	0.45	0.21	-0.24	0	0	0	0	0	0	0	0
7/16/2024 11:08	56504	ROCK_T2	0	5	5	0	0	0	0.46	0.54	0	0	0	0	0	0
7/16/2024 11:08	56503	ROCK_T2	1	1	0	2.1	0	-2.1	0	0	0	0	0	0	0	0
7/16/2024 11:09	56503	ROCK_T2	1	1	0	2.1	0	-2.1	0	0	0	0	0	0	0	0
7/16/2024 11:09	56501	ROCK_T2	2	59	57	0.45	0.21	-0.24	0	0	0	0	0	0	0	0
7/16/2024 11:09	56504	ROCK_T2	0	5	5	0	0	0	1.37	1.63	0	0	0	0	0	0
7/16/2024 11:10	58003	WCAR_T1	1	3	2	0.5	0.33	-0.17	0.57	0.56	1	1	0	600	600	0
7/16/2024 11:10	61102	BERK_T5	0	0	0	0	0	0	0.09	0.27	4	4	0	2400	2400	0
7/16/2024 11:10	67605	WARW_T1	0	2	2	0	0.2	0.2	-0.65	-0.94	0	0	0	0	0	0
7/16/2024 11:13	56503	ROCK_T2	1	1	0	2.1	0	-2.1	0	0	0	0	0	0	0	0
7/16/2024 11:13	56501	ROCK_T2	2	59	57	0.45	0.21	-0.24	0	0	0	0	0	0	0	0
7/16/2024 11:13	56504	ROCK_T2	0	5	5	0	0	0	0.46	0.54	0	0	0	0	0	0
7/16/2024 11:14	22903	HARW_T1	25	26	1	1.96	2.92	0.96	0	0	0	0	0	0	0	0
7/16/2024 11:14	11507	FREE_T2	154	244	90	0.78	0.71	-0.07	1.04	1.14	1	1	0	600	600	0
7/16/2024 11:14	22901	HARW_T1	25	25	0	0.89	0.99	0.1	0.34	0.23	1	1	0	1200	1200	0
7/16/2024 11:14	22905	HARW_T1	7	30	23	0.63	0.39	-0.24	0	0	0	0	0	0	0	0
7/16/2024 11:15	52002	LING_T2	15	18	3	0.44	0.1	-0.34	0.62	0.64	0	0	0	0	0	0
7/16/2024 11:15	52003	LING_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/16/2024 11:15	52006	LING_T2	5	4	-1	0.58	0.3	-0.28	0	0	0	0	0	0	0	0
7/16/2024 11:15	52001	LING_T1	0	0	0	0	0	0	0.99	1.1	0	0	0	0	0	0
7/16/2024 11:16	52002	LING_T2	15	18	3	0.44	0.1	-0.34	0.93	0.96	0	0	0	0	0	0
7/16/2024 11:16	52006	LING_T2	5	4	-1	0.58	0.3	-0.28	0	0	0	0	0	0	0	0
7/16/2024 11:17	64203	KINZ_T1	88	173	85	0.68	0.67	-0.01	0.73	0.79	3	3	0	2100	2100	0
7/16/2024 11:17	64201	KINZ_T1	384	457	73	0.81	1.07	0.26	0	0	0	0	0	0	0	0
7/16/2024 11:17	64202	KINZ_T1	48	55	7	0.74	0.8	0.06	0	0	0	0	0	0	0	0
7/16/2024 11:17	64204	KINZ_T1	58	163	105	0.48	0.46	-0.02	0	0	0	0	0	0	0	0
7/16/2024 11:18	64201	KINZ_T1	384	457	73	0.81	1.07	0.26	-0.28	-0.25	5	5	0	3300	3300	0
7/16/2024 11:18	64202	KINZ_T1	48	55	7	0.74	0.8	0.06	0	0	0	0	0	0	0	0
7/16/2024 11:18	64203	KINZ_T1	88	173	85	0.68	0.67	-0.01	0	0	0	0	0	0	0	0
7/16/2024 11:18	64204	KINZ_T1	58	163	105	0.48	0.46	-0.02	0	0	0	0	0	0	0	0
7/16/2024 11:19	64101	REFR_T1	13	21	8	1.35	1.2	-0.15	0.17	0.17	0	0	0	0	0	0
7/16/2024 11:20	55408	WHER_T2	2	3	1	0.95	0.75	-0.2	-0.94	-0.94	1	1	0	1200	1200	0
7/16/2024 11:20	52002	LING_T2	15	18	3	0.44	0.1	-0.34	0.31	0.32	0	0	0	0	0	0
7/16/2024 11:20	67001	STHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/16/2024 11:20	67002	STHI_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
7/16/2024 11:20	52006	LING_T2	5	4	-1	0.58	0.3	-0.28	0	0	0	0	0	0	0	0
7/16/2024 11:21	67201	TEHI_T1	101	69	-32	0.69	0.91	0.22	0	0	0	0	0	0	0	0
7/16/2024 11:21	67203	TEHI_T1	38	21	-17	0.68	0.95	0.27	2.99	2.46	3	3	0	2100	2100	0
7/16/2024 11:21	65503	MOJO_T2	8	13	5	0.75	0.69	-0.06	0.56	0.62	1	1	0	900	900	0
7/16/2024 11:22	52006	LING_T2	5	4	-1	0.58	0.3	-0.28	0	0	0	0	0	0	0	0
7/16/2024 11:22	52002	LING_T2	15	18	3	0.44	0.1	-0.34	0.32	0.47	0	0	0	0	0	0
7/16/2024 11:22	67605	WARW_T1	0	2	2	0	0.2	0.2	-0.54	-0.54	0	0	0	0	0	0
7/16/2024 11:24	67601	WARW_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
7/16/2024 11:25	11102	EGYP_T1	16	21	5	0.91	0.83	-0.08	0	0	0	0	0	0	0	0
7/16/2024 11:25	11101	EGYP_T1	4	4	0	1.9	2.2	0.3	0	0	0	0	0	0	0	0
7/16/2024 11:25	67605	WARW_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/16/2024 11:25	11104	EGYP_T1	7	5	-2	1.64	1.98	0.34	0.3	0.41	1	1	0	900	900	0
7/16/2024 11:25	67603	WARW_T1	0	0	0	0	0	0	0.04	0.09	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/16/2024 11:25	16302	ALPA_T2	0	0	0	0	0	0	0.8	0.9	0	0	0	0	0	0
7/16/2024 11:25	54505	ENOL_T2	0	0	0	0	0	0	-0.57	-0.51	1	1	0	600	600	0
7/16/2024 11:26	11104	EGYP_T1	7	5	-2	1.64	1.98	0.34	0.3	0.41	1	1	0	900	900	0
7/16/2024 11:26	11102	EGYP_T1	16	21	5	0.91	0.83	-0.08	0	0	0	0	0	0	0	0
7/16/2024 11:26	11101	EGYP_T1	4	4	0	1.9	2.2	0.3	0	0	0	0	0	0	0	0
7/16/2024 11:26	51302	WIND_T2	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
7/16/2024 11:27	44801	EDAN_T2	1	2	1	1.2	0.8	-0.4	-0.97	-0.94	0	0	0	0	0	0
7/16/2024 11:27	11102	EGYP_T1	16	21	5	0.91	0.83	-0.08	0	0	0	0	0	0	0	0
7/16/2024 11:27	11104	EGYP_T1	7	5	-2	1.64	1.98	0.34	0.3	0.41	1	1	0	900	900	0
7/16/2024 11:27	16302	ALPA_T2	0	0	0	0	0	0	0.8	0.9	0	0	0	0	0	0
7/16/2024 11:27	11101	EGYP_T1	4	4	0	1.9	2.2	0.3	0	0	0	0	0	0	0	0
7/16/2024 11:28	44801	EDAN_T2	1	2	1	1.2	0.8	-0.4	-0.97	-0.94	0	0	0	0	0	0
7/16/2024 11:32	57304	MOAL_T2	3	19	16	0.67	0.44	-0.23	0.11	-0.18	0	0	0	0	0	0
7/16/2024 11:32	57303	MOAL_T2	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0	0
7/16/2024 11:32	45801	HEGI_T1	0	0	0	0	0	0	0.28	0.21	1	1	0	900	900	0
7/16/2024 11:33	65001	NEFF_T2	0	0	0	0	0	0	-0.32	-0.32	1	1	0	1200	1200	0
7/16/2024 11:34	55001	NEWP_T1	13	11	-2	0.46	1.25	0.79	0	0	0	0	0	0	0	0
7/16/2024 11:34	55002	NEWP_T1	1	2	1	1.4	0.85	-0.55	0.14	0.19	0	0	0	0	0	0
7/16/2024 11:35	64101	REFR_T1	16	24	8	1.11	1.49	0.38	0.17	0.28	0	0	0	0	0	0
7/16/2024 11:35	55002	NEWP_T1	1	2	1	1.4	0.85	-0.55	0.28	0.38	0	0	0	0	0	0
7/16/2024 11:35	55001	NEWP_T1	13	11	-2	0.46	1.25	0.79	0	0	0	0	0	0	0	0
7/16/2024 11:36	55002	NEWP_T1	1	2	1	1.4	0.85	-0.55	0.14	0.19	0	0	0	0	0	0
7/16/2024 11:36	55001	NEWP_T1	13	11	-2	0.46	1.25	0.79	0	0	0	0	0	0	0	0
7/16/2024 11:37	57104	SPHI_T2	0	0	0	0	0	0	-0.54	-0.51	1	1	0	900	900	0
7/16/2024 11:37	55002	NEWP_T1	1	2	1	1.4	0.85	-0.55	0.38	0.44	0	0	0	0	0	0
7/16/2024 11:37	55001	NEWP_T1	13	11	-2	0.46	1.25	0.79	0	0	0	0	0	0	0	0
7/16/2024 11:37	57101	SPHI_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/16/2024 11:38	59101	WALK_T2	1	1	0	0.1	0.3	0.2	0.74	0.67	1	1	0	600	600	0
7/16/2024 11:39	20402	ASHF_T2	30	52	22	1.13	1.35	0.22	0	0	0	0	0	0	0	0
7/16/2024 11:39	46001	BERW_T1	0	1	1	0	0	0	0.77	0.87	0	0	0	0	0	0
7/16/2024 11:39	20403	ASHF_T2	12	44	32	1.03	0.6	-0.43	1.43	1.07	0	0	0	0	0	0
7/16/2024 11:39	20401	ASHF_T2	11	10	-1	1.52	1.63	0.11	0	0	0	0	0	0	0	0
7/16/2024 11:40	46001	BERW_T1	0	1	1	0	0	0	0.77	0.87	0	0	0	0	0	0
7/16/2024 11:41	46001	BERW_T1	0	1	1	0	0	0	0.77	0.87	0	0	0	0	0	0
7/16/2024 11:42	46001	BERW_T1	0	1	1	0	0	0	0.77	0.87	0	0	0	0	0	0
7/16/2024 11:42	61701	ELIZ_T1	2	1	-1	2.3	3.8	1.5	0	0	0	0	0	0	0	0
7/16/2024 11:42	61703	ELIZ_T1	0	0	0	0	0	0	-1.12	-1.11	1	1	0	900	900	0
7/16/2024 11:42	44801	EDAN_T2	1	4	3	1.3	0.45	-0.85	-0.94	-0.96	0	0	0	0	0	0
7/16/2024 11:43	61701	ELIZ_T1	2	1	-1	2.3	3.8	1.5	0	0	0	0	0	0	0	0
7/16/2024 11:43	61703	ELIZ_T1	0	0	0	0	0	0	-2.24	-2.22	2	2	0	1800	1800	0
7/16/2024 11:43	46001	BERW_T1	0	1	1	0	0	0	0.77	0.87	0	0	0	0	0	0
7/16/2024 11:43	44801	EDAN_T2	1	4	3	1.3	0.45	-0.85	-0.94	-0.96	0	0	0	0	0	0
7/16/2024 11:44	29402	BELT_T1	4	4	0	2.63	2.48	-0.15	0	0	0	0	0	0	0	0
7/16/2024 11:44	29401	BELT_T1	45	38	-7	0.92	0.76	-0.16	0	0	0	0	0	0	0	0
7/16/2024 11:45	46001	BERW_T1	0	1	1	0	0	0	0.77	0.87	0	0	0	0	0	0
7/16/2024 11:46	61701	ELIZ_T1	1	2	1	3.8	1.95	-1.85	0	0	0	0	0	0	0	0
7/16/2024 11:46	12701	MACU_T1	6	13	7	0.3	0.44	0.14	-0.5	-0.51	1	1	0	1200	1200	0
7/16/2024 11:46	12704	MACU_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 11:46	61703	ELIZ_T1	0	0	0	0	0	0	-2.24	-2.22	2	2	0	1800	1800	0
7/16/2024 11:47	55002	NEWP_T1	2	1	-1	0.85	1.5	0.65	0.19	0.22	0	0	0	0	0	0
7/16/2024 11:47	12704	MACU_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 11:47	55001	NEWP_T1	3	11	8	0.9	1.17	0.27	0	0	0	0	0	0	0	0
7/16/2024 11:47	12701	MACU_T1	6	13	7	0.3	0.44	0.14	-0.5	-0.51	1	1	0	1200	1200	0
7/16/2024 11:49	40602	PIGR_T1	8	10	2	0.73	0.7	-0.03	-0.78	-0.62	1	1	0	600	600	0
7/16/2024 11:49	40603	PIGR_T1	53	52	-1	0.98	0.77	-0.21	0	0	0	0	0	0	0	0
7/16/2024 11:49	40601	PIGR_T1	13	11	-2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/16/2024 11:50	55002	NEWP_T1	2	1	-1	0.85	1.5	0.65	0.19	0.22	0	0	0	0	0	0
7/16/2024 11:50	55001	NEWP_T1	3	11	8	0.9	1.17	0.27	0	0	0	0	0	0	0	0
7/16/2024 11:51	64101	REFR_T1	18	30	12	1.6	1.21	-0.39	0.14	0.17	0	0	0	0	0	0
7/16/2024 11:51	43304	WATS_T2	1	8	7	1.5	0.6	-0.9	-0.7	-0.97	1	1	0	600	600	0
7/16/2024 11:51	43301	WATS_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/16/2024 11:52	55002	NEWP_T1	2	1	-1	0.85	1.5	0.65	0.44	0.46	0	0	0	0	0	0
7/16/2024 11:52	43304	WATS_T2	1	8	7	1.5	0.6	-0.9	-1.41	-1.94	2	2	0	1200	1200	0
7/16/2024 11:52	43301	WATS_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/16/2024 11:52	55001	NEWP_T1	3	11	8	0.9	1.17	0.27	0	0	0	0	0	0	0	0
7/16/2024 11:53	44801	EDAN_T2	2	6	4	0.8	0.5	-0.3	-0.96	-0.93	0	0	0	0	0	0
7/16/2024 11:54	43304	WATS_T2	1	8	7	1.5	0.6	-0.9	-0.7	-0.97	1	1	0	600	600	0
7/16/2024 11:54	43301	WATS_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/16/2024 11:58	44301	BEAV_T2	46	68	22	0.75	0.67	-0.08	0.66	-0.41	2	2	0	1500	1500	0
7/16/2024 11:58	40101	HUNT_T2	170	278	108	0.61	0.65	0.04	-0.9	-0.87	0	0	0	0	0	0
7/16/2024 11:58	24105	EHAZ_T1	4	4	0	6.33	6.4	0.07	0	0	0	0	0	0	0	0
7/16/2024 11:58	24101	EHAZ_T1	132	136	4	1.63	1.63	0	0	0	0	0	0	0	0	0
7/16/2024 11:58	24102	EHAZ_T1	3	4	1	1.33	1.9	0.57	-0.58	-0.59	0	0	0	0	0	0
7/16/2024 11:59	40101	HUNT_T2	170	278	108	0.61	0.65	0.04	-0.9	-0.87	0	0	0	0	0	0
7/16/2024 11:59	44801	EDAN_T2	2	6	4	0.8	0.5	-0.3	-0.96	-0.93	0	0	0	0	0	0
7/16/2024 12:00	40101	HUNT_T2	202	315	113	0.66	0.82	0.16	-0.9	-0.87	0	0	0	0	0	0
7/16/2024 12:01	64305	LINC_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
7/16/2024 12:02	12701	MACU_T1	8	22	14	0.45	0.92	0.47	-0.51	-0.52	1	1	0	1200	1200	0
7/16/2024 12:02	12704	MACU_T1	0	5	5	0	0.25	0.25	0	0	0	0	0	0	0	0
7/16/2024 12:03	12701	MACU_T1	8	22	14	0.45	0.92	0.47	-0.51	-0.52	1	1	0	1200	1200	0
7/16/2024 12:03	12704	MACU_T1	0	5	5	0	0.25	0.25	0	0	0	0	0	0	0	0
7/16/2024 12:05	40603	PIGR_T1	51	49	-2	0.95	0.78	-0.17	0	0	0	0	0	0	0	0
7/16/2024 12:05	52501	PROG_T1	0	0	0	0	0	0	-0.25	-0.2	1	1	0	300	300	0
7/16/2024 12:05	40601	PIGR_T1	11	13	2	0.48	0.4	-0.08	0.15	0.16	0	0	0	0	0	0
7/16/2024 12:05	40602	PIGR_T1	4	20	16	0.75	0.79	0.04	0	0	0	0	0	0	0	0
7/16/2024 12:08	60803	BUCK_T1	2	8	6	0.1	0.21	0.11	-0.72	-0.7	1	1	0	600	600	0
7/16/2024 12:09	60803	BUCK_T1	2	8	6	0.1	0.21	0.11	-0.72	-0.7	1	1	0	600	600	0
7/16/2024 12:10	60803	BUCK_T1	2	8	6	0.1	0.21	0.11	-0.72	-0.7	1	1	0	600	600	0
7/16/2024 12:11	60803	BUCK_T1	2	8	6	0.1	0.21	0.11	-0.72	-0.7	1	1	0	600	600	0
7/16/2024 12:12	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/16/2024 12:12	56501	ROCK_T2	3	4	1	0.43	0.48	0.05	0	0	0	0	0	0	0	0
7/16/2024 12:12	56504	ROCK_T2	11	20	9	0.52	0.28	-0.24	0.66	0.73	0	0	0	0	0	0
7/16/2024 12:14	44801	EDAN_T2	4	4	0	0.5	1.15	0.65	-0.93	-0.9	0	0	0	0	0	0
7/16/2024 12:15	66701	STRA_T1	2	6	4	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/16/2024 12:15	66703	STRA_T1	49	57	8	0.59	0.62	0.03	0.26	0.28	0	0	0	0	0	0
7/16/2024 12:15	66702	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 12:16	40101	HUNT_T2	278	369	91	0.84	0.86	0.02	-0.87	-0.81	0	0	0	0	0	0
7/16/2024 12:16	47101	MARL_T1	366	555	189	1.04	1.02	-0.02	-0.39	-0.34	2	2	0	1200	1200	0
7/16/2024 12:16	47104	MARL_T1	23	28	5	0.76	0.66	-0.1	0	0	0	0	0	0	0	0
7/16/2024 12:17	47101	MARL_T1	366	555	189	1.04	1.02	-0.02	-0.19	-0.17	1	1	0	600	600	0
7/16/2024 12:17	44301	BEAV_T2	68	107	39	0.87	1.13	0.26	-0.41	-0.33	2	2	0	1500	1500	0
7/16/2024 12:17	47104	MARL_T1	23	28	5	0.76	0.66	-0.1	0	0	0	0	0	0	0	0
7/16/2024 12:18	47104	MARL_T1	23	28	5	0.76	0.66	-0.1	0	0	0	0	0	0	0	0
7/16/2024 12:18	47101	MARL_T1	366	555	189	1.04	1.02	-0.02	-0.19	-0.17	1	1	0	600	600	0
7/16/2024 12:19	47104	MARL_T1	23	28	5	0.76	0.66	-0.1	0	0	0	0	0	0	0	0
7/16/2024 12:19	47101	MARL_T1	366	555	189	1.04	1.02	-0.02	-0.39	-0.34	2	2	0	1200	1200	0
7/16/2024 12:20	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 12:20	47401	PENS_T1	12	6	-6	0.67	0.73	0.06	0.75	0.7	0	0	0	0	0	0
7/16/2024 12:20	47104	MARL_T1	23	28	5	0.76	0.66	-0.1	0	0	0	0	0	0	0	0
7/16/2024 12:20	47403	PENS_T1	0	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0
7/16/2024 12:20	47101	MARL_T1	366	555	189	1.04	1.02	-0.02	-0.19	-0.17	1	1	0	600	600	0
7/16/2024 12:21	43301	WATS_T2	2	4	2	0.55	0.1	-0.45	0.36	0.33	2	2	0	1800	1800	0
7/16/2024 12:21	43304	WATS_T2	2	8	6	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
7/16/2024 12:21	67703	WERN_T2	1	1	0	1.5	0.6	-0.9	-0.02	-0.02	2	2	0	1800	1800	0
7/16/2024 12:21	64201	KINZ_T1	412	472	60	0.94	1.08	0.14	0	0	0	0	0	0	0	0
7/16/2024 12:21	64204	KINZ_T1	228	518	290	0.83	0.97	0.14	0	0	0	0	0	0	0	0
7/16/2024 12:21	64203	KINZ_T1	350	715	365	0.74	0.75	0.01	0.9	0.97	3	3	0	2100	2100	0
7/16/2024 12:21	67701	WERN_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/16/2024 12:21	64202	KINZ_T1	58	73	15	1.31	1.43	0.12	0	0	0	0	0	0	0	0
7/16/2024 12:21	47101	MARL_T1	366	555	189	1.04	1.02	-0.02	-0.19	-0.17	1	1	0	600	600	0
7/16/2024 12:21	47104	MARL_T1	23	28	5	0.76	0.66	-0.1	0	0	0	0	0	0	0	0
7/16/2024 12:22	64202	KINZ_T1	58	73	15	1.31	1.43	0.12	0	0	0	0	0	0	0	0
7/16/2024 12:22	43301	WATS_T2	2	4	2	0.55	0.1	-0.45	0.18	0.16	1	1	0	900	900	0
7/16/2024 12:22	64203	KINZ_T1	350	715	365	0.74	0.75	0.01	0.97	1	3	3	0	2100	2100	0
7/16/2024 12:22	43304	WATS_T2	2	8	6	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
7/16/2024 12:22	64201	KINZ_T1	412	472	60	0.94	1.08	0.14	0	0	0	0	0	0	0	0
7/16/2024 12:22	64204	KINZ_T1	228	518	290	0.83	0.97	0.14	0	0	0	0	0	0	0	0
7/16/2024 12:23	43301	WATS_T2	2	4	2	0.55	0.1	-0.45	0.18	0.16	1	1	0	900	900	0
7/16/2024 12:23	43304	WATS_T2	2	8	6	0.9	0.4	-0.5	-1.05	-0.6	1	1	0	600	600	0
7/16/2024 12:23	64101	REFR_T1	30	25	-5	1.38	0.99	-0.39	-0.73	-0.58	0	0	0	0	0	0
7/16/2024 12:24	43304	WATS_T2	2	8	6	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
7/16/2024 12:24	43301	WATS_T2	2	4	2	0.55	0.1	-0.45	0.18	0.16	1	1	0	900	900	0
7/16/2024 12:25	43301	WATS_T2	2	4	2	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
7/16/2024 12:25	43304	WATS_T2	2	8	6	0.9	0.4	-0.5	-1.05	-0.6	1	1	0	600	600	0
7/16/2024 12:26	56801	BENV_T1	2	15	13	0.65	0.5	-0.15	0.09	0.09	1	1	0	600	600	0
7/16/2024 12:26	43301	WATS_T2	2	4	2	0.55	0.1	-0.45	0.18	0.16	1	1	0	900	900	0
7/16/2024 12:26	56803	BENV_T1	15	23	8	1.96	1.53	-0.43	0	0	0	0	0	0	0	0
7/16/2024 12:26	43304	WATS_T2	2	8	6	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
7/16/2024 12:27	56801	BENV_T1	2	15	13	0.65	0.5	-0.15	0.09	0.09	1	1	0	600	600	0
7/16/2024 12:27	56803	BENV_T1	15	23	8	1.96	1.53	-0.43	0	0	0	0	0	0	0	0
7/16/2024 12:29	46302	ROHR_T1	1	4	3	0.4	0.2	-0.2	0.48	0.48	0	0	0	0	0	0
7/16/2024 12:29	67703	WERN_T2	1	1	0	1.5	0.6	-0.9	-0.01	-0.01	1	1	0	900	900	0
7/16/2024 12:29	67701	WERN_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/16/2024 12:29	46301	ROHR_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/16/2024 12:30	64904	MILL_T1	0	0	0	0	0	0	-0.22	-0.14	0	0	0	0	0	0
7/16/2024 12:30	52401	GRPA_T2	77	89	12	0.71	0.73	0.02	0	0	0	0	0	0	0	0
7/16/2024 12:30	52404	GRPA_T2	23	47	24	0.38	0.38	0	0.71	0.73	0	0	0	0	0	0
7/16/2024 12:30	52403	GRPA_T2	236	224	-12	1.11	0.85	-0.26	0	0	0	0	0	0	0	0
7/16/2024 12:30	52402	GRPA_T2	37	94	57	0.57	1.02	0.45	0	0	0	0	0	0	0	0
7/16/2024 12:31	52402	GRPA_T2	37	94	57	0.57	1.02	0.45	0	0	0	0	0	0	0	0
7/16/2024 12:31	52404	GRPA_T2	23	47	24	0.38	0.38	0	0	0	0	0	0	0	0	0
7/16/2024 12:31	52401	GRPA_T2	77	89	12	0.71	0.73	0.02	-0.57	-0.55	0	0	0	0	0	0
7/16/2024 12:31	52403	GRPA_T2	236	224	-12	1.11	0.85	-0.26	0	0	0	0	0	0	0	0
7/16/2024 12:32	45802	HEGI_T2	56	153	97	0.75	0.71	-0.04	0.71	0.81	2	2	0	1200	1200	0
7/16/2024 12:33	40101	HUNT_T2	315	396	81	0.87	1.11	0.24	-0.81	-0.85	0	0	0	0	0	0
7/16/2024 12:33	45802	HEGI_T2	56	153	97	0.75	0.71	-0.04	0.71	0.81	2	2	0	1200	1200	0
7/16/2024 12:34	47402	PENS_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/16/2024 12:34	47403	PENS_T1	1	4	3	1.8	0.45	-1.35	0	0	0	0	0	0	0	0
7/16/2024 12:34	47401	PENS_T1	3	5	2	0.93	0.74	-0.19	1.39	1.41	0	0	0	0	0	0
7/16/2024 12:34	44601	SALE_T2	0	0	0	0	0	0	0.31	0.44	1	1	0	600	600	0
7/16/2024 12:34	47802	MOCA_T2	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
7/16/2024 12:37	67602	WARW_T2	0	2	2	0	0	0	1.33	1.19	4	4	0	3000	3000	0
7/16/2024 12:38	67602	WARW_T2	0	2	2	0	0	0	0.67	0.6	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/16/2024 12:38	43304	WATS_T2	1	17	16	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
7/16/2024 12:38	43301	WATS_T2	2	4	2	0.1	0.18	0.08	0.16	0.17	1	1	0	900	900	0
7/16/2024 12:39	65903	SAKR_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/16/2024 12:39	65901	SAKR_T2	4	10	6	1.25	1.08	-0.17	0.27	0.27	2	2	0	1500	1500	0
7/16/2024 12:39	65902	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 12:39	67602	WARW_T2	0	2	2	0	0	0	0.67	0.6	2	2	0	1500	1500	0
7/16/2024 12:39	44601	SALE_T2	0	0	0	0	0	0	0.44	0.39	1	1	0	600	600	0
7/16/2024 12:40	67602	WARW_T2	0	2	2	0	0	0	1.33	1.19	4	4	0	3000	3000	0
7/16/2024 12:41	15001	BLMO_T1	8	19	11	0.69	0.58	-0.11	0	0	0	0	0	0	0	0
7/16/2024 12:41	56801	BENV_T1	12	14	2	0.53	0.68	0.15	0.09	0.08	1	1	0	600	600	0
7/16/2024 12:41	56803	BENV_T1	21	35	14	1.52	1.38	-0.14	0	0	0	0	0	0	0	0
7/16/2024 12:43	64202	KINZ_T1	58	94	36	1.43	1.62	0.19	0	0	0	0	0	0	0	0
7/16/2024 12:43	56801	BENV_T1	12	14	2	0.53	0.68	0.15	0.09	0.08	1	1	0	600	600	0
7/16/2024 12:43	64203	KINZ_T1	411	1050	639	0.75	0.85	0.1	1	0.96	3	3	0	2100	2100	0
7/16/2024 12:43	64204	KINZ_T1	304	631	327	0.99	0.99	0	0	0	0	0	0	0	0	0
7/16/2024 12:43	56803	BENV_T1	21	35	14	1.52	1.38	-0.14	0	0	0	0	0	0	0	0
7/16/2024 12:43	64201	KINZ_T1	436	554	118	1.08	1.55	0.47	0	0	0	0	0	0	0	0
7/16/2024 12:43	45802	HEGI_T2	56	153	97	0.75	0.71	-0.04	0.81	0.75	2	2	0	1200	1200	0
7/16/2024 12:44	64204	KINZ_T1	304	631	327	0.99	0.99	0	0	0	0	0	0	0	0	0
7/16/2024 12:44	62104	ELAN_T1	0	17	17	0	0.6	0.6	0	0	0	0	0	0	0	0
7/16/2024 12:44	66504	SMAN_T2	8	10	2	0.85	1.35	0.5	0.37	0.41	0	0	0	0	0	0
7/16/2024 12:44	62105	ELAN_T1	3	2	-1	0.67	0.95	0.28	0	0	0	0	0	0	0	0
7/16/2024 12:44	64202	KINZ_T1	58	94	36	1.43	1.62	0.19	0	0	0	0	0	0	0	0
7/16/2024 12:44	45801	HEGI_T1	3	9	6	0.2	0.6	0.4	0.29	0.33	1	1	0	900	900	0
7/16/2024 12:44	66503	SMAN_T2	1	16	15	0.4	0.63	0.23	0	0	0	0	0	0	0	0
7/16/2024 12:44	62102	ELAN_T1	1	1	0	0.3	0.2	-0.1	-0.04	-0.01	0	0	0	0	0	0
7/16/2024 12:44	64201	KINZ_T1	436	554	118	1.08	1.55	0.47	0	0	0	0	0	0	0	0
7/16/2024 12:44	46302	ROHR_T1	2	4	2	0.25	0.35	0.1	0	0	0	0	0	0	0	0
7/16/2024 12:44	46301	ROHR_T1	1	1	0	0.5	0	-0.5	0.53	0.56	0	0	0	0	0	0
7/16/2024 12:44	64203	KINZ_T1	411	1050	639	0.75	0.85	0.1	1	0.96	3	3	0	2100	2100	0
7/16/2024 12:44	66505	SMAN_T2	62	118	56	0.46	0.46	0	0.81	0.61	4	4	0	2300	2300	0
7/16/2024 12:45	46801	HEPB_T2	3	5	2	0.5	0.2	-0.3	0.57	0.6	0	0	0	0	0	0
7/16/2024 12:45	46803	HEPB_T2	0	0	0	0	0	0	0.8	0.85	0	0	0	0	0	0
7/16/2024 12:46	22905	HARW_T1	21	33	12	0.45	0.46	0.01	-0.2	-0.19	0	0	0	0	0	0
7/16/2024 12:46	22901	HARW_T1	51	105	54	1.08	0.97	-0.11	0	0	0	0	0	0	0	0
7/16/2024 12:46	22903	HARW_T1	26	26	0	2.77	2.38	-0.39	0	0	0	0	0	0	0	0
7/16/2024 12:47	66504	SMAN_T2	9	9	0	1.3	1.09	-0.21	0	0	0	0	0	0	0	0
7/16/2024 12:47	66505	SMAN_T2	113	107	-6	0.5	0.44	-0.06	0.81	0.61	4	4	0	2300	2300	0
7/16/2024 12:47	47104	MARL_T1	27	34	7	0.66	0.68	0.02	0	0	0	0	0	0	0	0
7/16/2024 12:47	64801	MONE_T2	7	6	-1	0.29	0.38	0.09	0	0	0	0	0	0	0	0
7/16/2024 12:47	47101	MARL_T1	532	610	78	1.15	1.17	0.02	-0.23	-0.27	1	1	0	600	600	0
7/16/2024 12:47	64802	MONE_T2	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
7/16/2024 12:47	66503	SMAN_T2	13	17	4	0.63	0.55	-0.08	0	0	0	0	0	0	0	0
7/16/2024 12:48	45802	HEGI_T2	153	126	-27	0.81	0.72	-0.09	0.81	0.75	2	2	0	1200	1200	0
7/16/2024 12:49	53802	MBRG_T2	0	1	1	0	0	0	1.31	1.45	0	0	0	0	0	0
7/16/2024 12:50	64802	MONE_T2	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
7/16/2024 12:50	25503	MADI_T1	0	4	4	0	0	0	-0.29	-0.29	0	0	0	0	0	0
7/16/2024 12:50	64801	MONE_T2	7	6	-1	0.29	0.38	0.09	0	0	0	0	0	0	0	0
7/16/2024 12:50	25501	MADI_T1	3	3	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/16/2024 12:52	66702	STRA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/16/2024 12:52	66701	STRA_T1	5	11	6	0.2	0.74	0.54	0	0	0	0	0	0	0	0
7/16/2024 12:52	66703	STRA_T1	56	87	31	0.62	0.57	-0.05	0.32	0.36	0	0	0	0	0	0
7/16/2024 12:54	67602	WARW_T2	0	2	2	0	0	0	0.6	0.62	2	2	0	1500	1500	0
7/16/2024 12:55	55105	WERT_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/16/2024 12:55	56801	BENV_T1	12	11	-1	0.58	0.53	-0.05	0	0	0	0	0	0	0	0
7/16/2024 12:55	56803	BENV_T1	20	36	16	1.42	1.44	0.02	0.31	0.21	1	1	0	600	600	0
7/16/2024 12:55	10602	BLGL_T2	89	121	32	0.63	1.15	0.52	1.7	0.44	0	0	0	0	0	0
7/16/2024 12:55	55101	WERT_T1	23	31	8	0.8	0.68	-0.12	-1.71	-1.58	4	4	0	3300	3300	0
7/16/2024 12:56	46203	DANV_T2	3	5	2	0.3	0.33	0.03	-1.87	-1.89	0	0	0	0	0	0
7/16/2024 12:56	46204	DANV_T2	155	216	61	0.8	1.02	0.22	0	0	0	0	0	0	0	0
7/16/2024 12:56	46205	DANV_T2	2	4	2	0.8	0.67	-0.13	0	0	0	0	0	0	0	0
7/16/2024 12:56	46206	DANV_T2	131	210	79	1.1	1.14	0.04	0	0	0	0	0	0	0	0
7/16/2024 12:56	61303	EARL_T1	1	1	0	0.4	0.8	0.4	0.8	0.78	0	0	0	0	0	0
7/16/2024 12:57	55101	WERT_T1	23	31	8	0.8	0.68	-0.12	-1.71	-1.58	4	4	0	3300	3300	0
7/16/2024 12:57	55105	WERT_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/16/2024 12:57	61303	EARL_T1	1	1	0	0.4	0.8	0.4	0.8	0.78	0	0	0	0	0	0
7/16/2024 12:59	64203	KINZ_T1	715	1066	351	0.86	0.94	0.08	0.96	1.08	3	3	0	2100	2100	0
7/16/2024 12:59	64201	KINZ_T1	472	607	135	1.54	1.71	0.17	0	0	0	0	0	0	0	0
7/16/2024 12:59	64202	KINZ_T1	73	94	21	1.62	1.78	0.16	0	0	0	0	0	0	0	0
7/16/2024 12:59	64204	KINZ_T1	517	631	114	1	0.95	-0.05	0	0	0	0	0	0	0	0
7/16/2024 13:00	46204	DANV_T2	190	226	36	1.03	1.07	0.04	0	0	0	0	0	0	0	0
7/16/2024 13:00	46206	DANV_T2	174	228	54	1.16	1.25	0.09	0	0	0	0	0	0	0	0
7/16/2024 13:00	64203	KINZ_T1	1050	1248	198	0.98	0.96	-0.02	0.96	1.08	3	3	0	2100	2100	0
7/16/2024 13:00	46205	DANV_T2	3	16	13	0.67	0.83	0.16	0	0	0	0	0	0	0	0
7/16/2024 13:00	64204	KINZ_T1	629	726	97	1.06	1.01	-0.05	0	0	0	0	0	0	0	0
7/16/2024 13:00	64202	KINZ_T1	94	105	11	1.76	1.87	0.11	0	0	0	0	0	0	0	0
7/16/2024 13:00	64201	KINZ_T1	552	773	221	1.87	1.62	-0.25	0	0	0	0	0	0	0	0
7/16/2024 13:00	46203	DANV_T2	3	5	2	0.37	0.25	-0.12	-1.87	-1.89	0	0	0	0	0	0
7/16/2024 13:01	61303	EARL_T1	1	2	1	0.8	0.7	-0.1	0.8	0.78	0	0	0	0	0	0
7/16/2024 13:02	52404	GRPA_T2	44	70	26	0.47	0.4	-0.07	0.78	0.74	0	0	0	0	0	0
7/16/2024 13:02	52402	GRPA_T2	90	98	8	1.03	0.84	-0.19	0	0	0	0	0	0	0	0
7/16/2024 13:02	65501	MOJO_T1	0	0	0	0	0	0	-1.32	-1.31	2	2	0	1800	1800	0
7/16/2024 13:02	52401	GRPA_T2	85	146	61	0.71	1.14	0.43	0	0	0	0	0	0	0	0
7/16/2024 13:02	52403	GRPA_T2	215	265	50	1.02	1.27	0.25	0	0	0	0	0	0	0	0
7/16/2024 13:05	47403	PENS_T1	4	2	-2	0.45	1.25	0.8	0	0	0	0	0	0	0	0
7/16/2024 13:05	47401	PENS_T1	5	39	34	0.86	0.75	-0.11	0.75	0.76	0	0	0	0	0	0
7/16/2024 13:05	47402	PENS_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/16/2024 13:06	40602	PIGR_T1	24	55	31	0.53	0.67	0.14	0	0	0	0	0	0	0	0
7/16/2024 13:06	47402	PENS_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/16/2024 13:06	47403	PENS_T1	4	2	-2	0.45	1.25	0.8	0	0	0	0	0	0	0	0
7/16/2024 13:06	40601	PIGR_T1	32	46	14	0.68	0.59	-0.09	0	0	0	0	0	0	0	0
7/16/2024 13:06	57401	SPAN_T1	6	4	-2	1.03	0	-1.03	-2.5	-5.62	4	8	4	2400	6000	3600
7/16/2024 13:06	47401	PENS_T1	5	39	34	0.86	0.75	-0.11	0.76	0.8	0	0	0	0	0	0
7/16/2024 13:06	40603	PIGR_T1	45	56	11	0.98	1.03	0.05	-0.3	-0.22	0	0	0	0	0	0
7/16/2024 13:06	57403	SPAN_T1	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
7/16/2024 13:07	57403	SPAN_T1	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
7/16/2024 13:07	57401	SPAN_T1	6	4	-2	1.03	0	-1.03	-1.41	-1.36	2	2	0	1500	1500	0
7/16/2024 13:08	57401	SPAN_T1	6	4	-2	1.03	0	-1.03	-1.41	-1.36	2	2	0	1500	1500	0
7/16/2024 13:08	57403	SPAN_T1	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
7/16/2024 13:09	42701	AUGU_T1	45	61	16	0.56	0.79	0.23	0	0	2	2	0	1800	1800	0
7/16/2024 13:10	42701	AUGU_T1	45	61	16	0.56	0.79	0.23	0	0	2	2	0	1800	1800	0
7/16/2024 13:11	57401	SPAN_T1	6	4	-2	1.03	0	-1.03	-1.41	-1.36	2	2	0	1500	1500	0
7/16/2024 13:11	58402	MORO_T1	9	11	2	0.62	0.86	0.24	-0.36	-0.32	5	5	0	3150	3150	0
7/16/2024 13:11	57403	SPAN_T1	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
7/16/2024 13:11	58401	MORO_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/16/2024 13:12	43402	BENT_T1	1	4	3	0.5	0.3	-0.2	-0.93	-0.91	2	2	0	1500	1500	0
7/16/2024 13:12	42701	AUGU_T1	45	61	16	0.56	0.79	0.23	0	0	2	2	0	1800	1800	0
7/16/2024 13:12	43401	BENT_T1	34	38	4	0.59	0.6	0.01	0	0	0	0	0	0	0	0
7/16/2024 13:13	51603	DUKE_T1	0	0	0	0	0	0	-0.43	-0.45	1	1	0	900	900	0
7/16/2024 13:14	42001	MNVL_T2	77	86	9	0.75	0.57	-0.18	1.14	0.57	0	0	0	0	0	0
7/16/2024 13:14	42002	MNVL_T2	2	2	0	2.2	2.2	0	0	0	0	0	0	0	0	0
7/16/2024 13:15	64202	KINZ_T1	91	108	17	1.88	2.15	0.27	0	0	0	0	0	0	0	0
7/16/2024 13:15	64204	KINZ_T1	596	771	175	1.01	1.54	0.53	0	0	0	0	0	0	0	0
7/16/2024 13:15	53803	MBRG_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
7/16/2024 13:15	64203	KINZ_T1	1011	1278	267	0.96	1.49	0.53	0	0	0	0	0	0	0	0
7/16/2024 13:15	64201	KINZ_T1	601	864	263	1.62	1.98	0.36	-0.59	-0.55	5	5	0	3300	3300	0
7/16/2024 13:15	53802	MBRG_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/16/2024 13:17	47001	HUGH_T2	57	8	-49	0.59	1.88	1.29	0	0	0	0	0	0	0	0
7/16/2024 13:17	47002	HUGH_T2	1	1	0	0.8	0.1	-0.7	0.16	0.2	0	0	0	0	0	0
7/16/2024 13:17	55003	NEWP_T2	0	0	0	0	0	0	-0.58	-0.56	1	1	0	600	600	0
7/16/2024 13:17	13202	PALM_T2	0	0	0	0	0	0	-0.86	-0.81	3	3	0	3000	3000	0
7/16/2024 13:20	12704	MACU_T1	8	10	2	0.68	0.63	-0.05	0	0	0	0	0	0	0	0
7/16/2024 13:20	12701	MACU_T1	62	122	60	0.71	0.61	-0.1	-0.45	-0.47	1	1	0	1200	1200	0
7/16/2024 13:21	54601	SUMM_T2	3	10	7	0.5	1.07	0.57	0	0	0	0	0	0	0	0
7/16/2024 13:21	54603	SUMM_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 13:21	54602	SUMM_T2	4	13	9	0.23	0.34	0.11	-2.84	-2.84	1	1	0	600	600	0
7/16/2024 13:22	49804	UNIV_T1	2	3	1	0.75	2	1.25	0	0	0	0	0	0	0	0
7/16/2024 13:22	57403	SPAN_T1	3	1	-2	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
7/16/2024 13:22	42201	SHEN_T2	0	0	0	0	0	0	-0.07	-0.07	1	1	0	600	600	0
7/16/2024 13:22	49803	UNIV_T1	1	1	0	0.4	0.3	-0.1	-1.43	-1.37	0	0	0	0	0	0
7/16/2024 13:22	57401	SPAN_T1	0	8	8	0	0.63	0.63	-1.36	-1.22	2	2	0	1500	1500	0
7/16/2024 13:23	42201	SHEN_T2	0	0	0	0	0	0	-0.07	-0.07	1	1	0	600	600	0
7/16/2024 13:23	49803	UNIV_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/16/2024 13:23	49804	UNIV_T1	2	3	1	0.75	2	1.25	1.32	1.34	0	0	0	0	0	0
7/16/2024 13:24	57403	SPAN_T1	3	1	-2	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
7/16/2024 13:24	57401	SPAN_T1	0	8	8	0	0.63	0.63	-1.36	-1.22	2	2	0	1500	1500	0
7/16/2024 13:25	12701	MACU_T1	62	122	60	0.71	0.61	-0.1	-0.47	-0.43	1	1	0	1200	1200	0
7/16/2024 13:25	42701	AUGU_T1	56	63	7	0.81	0.94	0.13	0	0	2	2	0	1800	1800	0
7/16/2024 13:25	12704	MACU_T1	8	10	2	0.68	0.63	-0.05	0	0	0	0	0	0	0	0
7/16/2024 13:25	24204	PROV_T3	1	1	0	7.5	7.7	0.2	0	0	0	0	0	0	0	0
7/16/2024 13:25	24201	PROV_T3	2	2	0	1.45	1.75	0.3	-0.29	-0.26	1	1	0	1200	1200	0
7/16/2024 13:26	20403	ASHF_T2	212	159	-53	0.92	0.75	-0.17	1.3	1.42	0	0	0	0	0	0
7/16/2024 13:26	67602	WARW_T2	0	3	3	0	0	0	1.32	1.41	4	4	0	3000	3000	0
7/16/2024 13:26	20401	ASHF_T2	19	38	19	0.64	0.56	-0.08	0	0	0	0	0	0	0	0
7/16/2024 13:26	20402	ASHF_T2	189	212	23	0.73	0.9	0.17	0	0	0	0	0	0	0	0
7/16/2024 13:27	20402	ASHF_T2	189	212	23	0.73	0.9	0.17	0	0	0	0	0	0	0	0
7/16/2024 13:27	20401	ASHF_T2	19	38	19	0.64	0.56	-0.08	0	0	0	0	0	0	0	0
7/16/2024 13:27	20403	ASHF_T2	212	159	-53	0.92	0.75	-0.17	1.3	1.42	0	0	0	0	0	0
7/16/2024 13:28	60903	DONG_T2	6	2	-4	1.2	0.1	-1.1	0	0	0	0	0	0	0	0
7/16/2024 13:28	60904	DONG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/16/2024 13:28	60902	DONG_T2	2	2	0	0.3	0.2	-0.1	0.79	0.83	0	0	0	0	0	0
7/16/2024 13:28	44801	EDAN_T2	4	4	0	0.75	1.35	0.6	-0.85	-0.85	0	0	0	0	0	0
7/16/2024 13:28	60901	DONG_T2	88	116	28	1.05	1.14	0.09	0	0	0	0	0	0	0	0
7/16/2024 13:31	66503	SMAN_T2	5	36	31	0.36	0.51	0.15	0	0	0	0	0	0	0	0
7/16/2024 13:31	66505	SMAN_T2	17	109	92	0.46	0.44	-0.02	0	0	0	0	0	0	0	0
7/16/2024 13:31	66504	SMAN_T2	11	14	3	0.58	1.13	0.55	0.49	0.52	0	0	0	0	0	0
7/16/2024 13:32	58001	WCAR_T1	3	0	-3	0.17	0	-0.17	-0.48	-0.54	0	0	0	0	0	0
7/16/2024 13:32	44702	MUNC_T2	9	6	-3	0.69	0.34	-0.35	0	0	0	0	0	0	0	0
7/16/2024 13:32	58003	WCAR_T1	2	3	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/16/2024 13:32	44703	MUNC_T2	29	32	3	0.58	0.56	-0.02	1.59	1.51	0	0	0	0	0	0
7/16/2024 13:33	53803	MBRG_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
7/16/2024 13:33	53802	MBRG_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
7/16/2024 13:35	13105	NHAM_T2	64	108	44	0.8	0.88	0.08	-1.26	-1.3	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/16/2024 13:35	13103	NHAM_T2	6	8	2	1.2	1.13	-0.07	0	0	0	0	0	0	0	0
7/16/2024 13:35	13102	NHAM_T2	3	2	-1	0.63	0	-0.63	0	0	0	0	0	0	0	0
7/16/2024 13:36	16406	MOPO_T1	0	0	0	0	0	0	0.45	0.46	1	1	0	1200	1200	0
7/16/2024 13:36	16402	MOPO_T1	10	20	10	1.19	1.2	0.01	0	0	0	0	0	0	0	0
7/16/2024 13:36	52006	LING_T2	9	19	10	1.39	1.36	-0.03	0	0	0	0	0	0	0	0
7/16/2024 13:36	52002	LING_T2	14	48	34	0.41	0.41	0	0	0	0	0	0	0	0	0
7/16/2024 13:36	52004	LING_T2	0	0	0	0	0	0	0	0.65	0	0	0	0	0	0
7/16/2024 13:37	65901	SAKR_T2	15	24	9	0.69	0.72	0.03	0.39	0.49	2	2	0	1500	1500	0
7/16/2024 13:37	47403	PENS_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
7/16/2024 13:37	47401	PENS_T1	37	25	-12	0.52	0.55	0.03	1.69	1.41	0	0	0	0	0	0
7/16/2024 13:37	65903	SAKR_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
7/16/2024 13:37	47402	PENS_T1	3	8	5	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/16/2024 13:37	65902	SAKR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 13:38	57403	SPAN_T1	1	3	2	0.3	0.3	0	0	0	0	0	0	0	0	0
7/16/2024 13:38	45302	WBER_T2	12	21	9	0.43	0.62	0.19	1.69	1.73	0	0	0	0	0	0
7/16/2024 13:38	57401	SPAN_T1	4	10	6	0.63	0.58	-0.05	-1.22	-1.17	2	2	0	1500	1500	0
7/16/2024 13:40	60803	BUCK_T1	2	0	-2	0.15	0	-0.15	-0.68	-0.66	1	1	0	600	600	0
7/16/2024 13:40	55402	SHER_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
7/16/2024 13:40	58803	COCO_T1	1	1	0	0.2	0.2	0	-0.29	-0.2	1	1	0	600	600	0
7/16/2024 13:40	55408	SHER_T2	8	16	8	0.86	0.52	-0.34	-0.94	-0.94	1	1	0	1200	1200	0
7/16/2024 13:41	60504	NMAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 13:41	60502	NMAN_T2	0	0	0	0	0	0	-0.05	0.03	0	0	0	0	0	0
7/16/2024 13:41	42701	AUGU_T1	61	63	2	0.97	0.99	0.02	0	0	2	2	0	1800	1800	0
7/16/2024 13:41	56803	BENV_T1	22	41	19	1.47	1.64	0.17	0	0	0	0	0	0	0	0
7/16/2024 13:41	67602	WARW_T2	1	9	8	0.4	0.25	-0.15	0.71	0.69	2	2	0	1500	1500	0
7/16/2024 13:41	56801	BENV_T1	14	9	-5	0.57	0.58	0.01	0.17	-0.41	1	2	1	600	1200	600
7/16/2024 13:42	56801	BENV_T1	14	9	-5	0.57	0.58	0.01	0	0	0	0	0	0	0	0
7/16/2024 13:42	56803	BENV_T1	22	41	19	1.47	1.64	0.17	0.92	0.81	3	3	0	1800	1800	0
7/16/2024 13:44	44801	EDAN_T2	4	8	4	1	0.64	-0.36	-0.85	-0.89	0	0	0	0	0	0
7/16/2024 13:44	61702	ELIZ_T2	0	0	0	0	0	0	-0.6	-0.58	2	2	0	1500	1500	0
7/16/2024 13:46	60504	NMAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 13:46	45302	WBER_T2	17	20	3	0.62	0.46	-0.16	1.69	1.73	0	0	0	0	0	0
7/16/2024 13:46	42903	MIDD_T2	65	53	-12	0.78	0.63	-0.15	1.58	1.54	1	1	0	1200	1200	0
7/16/2024 13:46	42901	MIDD_T2	35	44	9	0.75	0.66	-0.09	0	0	0	0	0	0	0	0
7/16/2024 13:46	60502	NMAN_T2	0	0	0	0	0	0	-0.05	0.03	0	0	0	0	0	0
7/16/2024 13:46	42902	MIDD_T2	30	29	-1	1.49	1.18	-0.31	0	0	0	0	0	0	0	0
7/16/2024 13:47	46101	MACJ_T2	0	0	0	0	0	0	0.26	0.38	1	1	0	1200	1200	0
7/16/2024 13:47	21901	HUMB_T1	9	4	-5	1.06	1.1	0.04	-2.53	-2.54	0	0	0	0	0	0
7/16/2024 13:48	43802	SWIL_T1	3	4	1	0.3	0.33	0.03	0.42	0.39	1	1	0	600	600	0
7/16/2024 13:48	43801	SWIL_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
7/16/2024 13:49	58803	COCO_T1	1	2	1	0.3	0.1	-0.2	-0.29	-0.2	1	1	0	600	600	0
7/16/2024 13:50	52006	LING_T2	12	22	10	1.36	1.29	-0.07	0	0	0	0	0	0	0	0
7/16/2024 13:50	40601	PIGR_T1	32	39	7	0.57	0.58	0.01	0	0	0	0	0	0	0	0
7/16/2024 13:50	40602	PIGR_T1	35	35	0	0.58	0.46	-0.12	-1.02	-1	1	1	0	600	600	0
7/16/2024 13:50	52002	LING_T2	39	53	14	0.48	0.36	-0.12	-0.12	-0.1	1	1	0	900	900	0
7/16/2024 13:50	40603	PIGR_T1	51	60	9	1.07	0.89	-0.18	0	0	0	0	0	0	0	0
7/16/2024 13:51	57402	SPAN_T2	2	1	-1	1	0	-1	0	0	0	0	0	0	0	0
7/16/2024 13:51	64101	REFR_T1	42	35	-7	1.27	1.36	0.09	-0.19	-0.27	0	0	0	0	0	0
7/16/2024 13:51	57404	SPAN_T2	43	51	8	0.53	0.58	0.05	-0.28	-0.31	1	1	0	1200	1200	0
7/16/2024 13:52	47401	PENS_T1	20	19	-1	0.57	0.56	-0.01	0.7	0.79	0	0	0	0	0	0
7/16/2024 13:52	47403	PENS_T1	1	1	0	1.7	2.2	0.5	0	0	0	0	0	0	0	0
7/16/2024 13:52	47402	PENS_T1	8	5	-3	0.64	0	-0.64	0	0	0	0	0	0	0	0
7/16/2024 13:53	47403	PENS_T1	1	1	0	1.7	2.2	0.5	0	0	0	0	0	0	0	0
7/16/2024 13:53	47401	PENS_T1	20	19	-1	0.57	0.56	-0.01	0.7	0.79	0	0	0	0	0	0
7/16/2024 13:53	57402	SPAN_T2	2	1	-1	1	0	-1	0	0	0	0	0	0	0	0
7/16/2024 13:53	47402	PENS_T1	8	5	-3	0.64	0	-0.64	0	0	0	0	0	0	0	0
7/16/2024 13:53	57404	SPAN_T2	43	51	8	0.53	0.58	0.05	-0.31	-0.34	1	1	0	1200	1200	0
7/16/2024 13:55	43304	WATS_T2	90	94	4	0.62	0.61	-0.01	0	0	0	0	0	0	0	0
7/16/2024 13:55	57404	SPAN_T2	43	51	8	0.53	0.58	0.05	-0.31	-0.34	1	1	0	1200	1200	0
7/16/2024 13:55	43301	WATS_T2	2	2	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
7/16/2024 13:55	57402	SPAN_T2	2	1	-1	1	0	-1	0	0	0	0	0	0	0	0
7/16/2024 13:55	43302	WATS_T2	0	0	0	0	0	0	-0.17	-0.27	6	6	0	4800	4800	0
7/16/2024 13:56	24101	EHAZ_T1	256	137	-119	1.07	1.47	0.4	0	0	0	0	0	0	0	0
7/16/2024 13:56	64302	LINC_T2	217	271	54	0.75	0.72	-0.03	1.51	1.56	0	0	0	0	0	0
7/16/2024 13:56	24105	EHAZ_T1	4	4	0	6.95	6.18	-0.77	-1.6	-1.6	1	1	0	1200	1200	0
7/16/2024 13:56	61701	ELIZ_T1	1	1	0	2.4	2.8	0.4	1.99	1.96	0	0	0	0	0	0
7/16/2024 13:56	24102	EHAZ_T1	2	3	1	2.35	1.35	-1	0	0	0	0	0	0	0	0
7/16/2024 13:56	60201	ATGL_T2	0	0	0	0	0	0	0.07	0.08	2	2	0	900	900	0
7/16/2024 13:58	20401	ASHF_T2	28	55	27	0.56	0.59	0.03	0	0	0	0	0	0	0	0
7/16/2024 13:58	61701	ELIZ_T1	1	1	0	2.4	2.8	0.4	1.99	1.96	0	0	0	0	0	0
7/16/2024 13:58	20403	ASHF_T2	140	120	-20	0.81	0.64	-0.17	2.44	2.53	0	0	0	0	0	0
7/16/2024 13:58	20402	ASHF_T2	114	161	47	0.94	0.85	-0.09	0	0	0	0	0	0	0	0
7/16/2024 14:01	40101	HUNT_T2	547	682	135	1.61	1.7	0.09	-0.7	-0.64	0	0	0	0	0	0
7/16/2024 14:03	61701	ELIZ_T1	1	1	0	2.5	2.8	0.3	1.99	1.96	0	0	0	0	0	0
7/16/2024 14:03	55001	NEWP_T1	75	83	8	0.8	1	0.2	0.31	0.23	0	0	0	0	0	0
7/16/2024 14:08	47402	PENS_T1	1	12	11	0.1	0.43	0.33	0	0	0	0	0	0	0	0
7/16/2024 14:08	67701	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/16/2024 14:08	67703	WERN_T2	59	96	37	0.55	0.6	0.05	-0.04	-0.04	4	4	0	3600	3600	0
7/16/2024 14:08	47401	PENS_T1	18	27	9	0.66	0.56	-0.1	0.79	0.77	0	0	0	0	0	0
7/16/2024 14:08	47403	PENS_T1	1	1	0	2.2	1.7	-0.5	0	0	0	0	0	0	0	0
7/16/2024 14:09	47402	PENS_T1	1	12	11	0.1	0.43	0.33	0	0	0	0	0	0	0	0
7/16/2024 14:09	47401	PENS_T1	18	27	9	0.66	0.56	-0.1	0.79	0.77	0	0	0	0	0	0
7/16/2024 14:09	47403	PENS_T1	1	1	0	2.2	1.7	-0.5	0	0	0	0	0	0	0	0
7/16/2024 14:14	24702	FLND_T2	2	2	0	0.85	0.55	-0.3	-0.99	-0.3	4	4	0	4800	4800	0
7/16/2024 14:14	24703	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 14:15	26401	INOR_T1	159	159	0	1.26	1.15	-0.11	1.9	1.77	0	0	0	0	0	0
7/16/2024 14:15	58402	MORO_T1	40	23	-17	0.48	0.54	0.06	-1.18	-1.2	5	5	0	3150	3150	0
7/16/2024 14:15	58401	MORO_T1	9	16	7	0.37	0.57	0.2	0	0	0	0	0	0	0	0
7/16/2024 14:15	26402	INOR_T1	167	167	0	1.56	1.22	-0.34	0	0	0	0	0	0	0	0
7/16/2024 14:18	12305	LANA_T2	41	60	19	0.89	0.75	-0.14	0	0	0	0	0	0	0	0
7/16/2024 14:18	12301	LANA_T2	15	22	7	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
7/16/2024 14:18	12302	LANA_T2	52	116	64	0.4	0.38	-0.02	-1.25	-1.21	3	3	0	2700	2700	0
7/16/2024 14:18	12304	LANA_T2	264	272	8	1.2	1.26	0.06	0	0	0	0	0	0	0	0
7/16/2024 14:19	41902	REED_T1	190	210	20	0.9	0.83	-0.07	0	0	0	0	0	0	0	0
7/16/2024 14:19	41903	REED_T1	7	7	0	1.5	1.28	-0.22	0	0	0	0	0	0	0	0
7/16/2024 14:19	41901	REED_T1	1	9	8	0.1	0.33	0.23	0	0	0	0	0	0	0	0
7/16/2024 14:19	55001	NEWP_T1	68	115	47	0.95	1.04	0.09	0.23	0.28	0	0	0	0	0	0
7/16/2024 14:20	52004	LING_T2	0	1	1	0	0	0	0.67	0.69	0	0	0	0	0	0
7/16/2024 14:20	52006	LING_T2	15	17	2	1.17	1.36	0.19	0	0	0	0	0	0	0	0
7/16/2024 14:20	52002	LING_T2	40	74	34	0.39	0.45	0.06	0	0	0	0	0	0	0	0
7/16/2024 14:21	41902	REED_T1	190	210	20	0.9	0.83	-0.07	0.1	0.04	1	1	0	900	900	0
7/16/2024 14:21	41903	REED_T1	7	7	0	1.5	1.28	-0.22	0	0	0	0	0	0	0	0
7/16/2024 14:21	41901	REED_T1	1	9	8	0.1	0.33	0.23	0	0	0	0	0	0	0	0
7/16/2024 14:22	64101	REFR_T1	33	58	25	1.32	1.22	-0.1	-0.25	-0.18	0	0	0	0	0	0
7/16/2024 14:23	67703	WERN_T2	76	115	39	0.61	0.58	-0.03	-0.01	-0.01	1	1	0	900	900	0
7/16/2024 14:23	67701	WERN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/16/2024 14:24	47403	PENS_T1	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
7/16/2024 14:24	47401	PENS_T1	17	26	9	0.56	0.7	0.14	0.77	0.77	0	0	0	0	0	0
7/16/2024 14:24	22602	KIMB_T1	3	10	7	0.3	0.3	0	0.01	0.01	0	0	0	0	0	0
7/16/2024 14:24	47402	PENS_T1	4	11	7	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/16/2024 14:25	25603	ARRO_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
7/16/2024 14:26	29402	BELT_T1	62	38	-24	0.41	0.33	-0.08	0	0	0	0	0	0	0	0
7/16/2024 14:26	59102	WALK_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/16/2024 14:26	46206	DANV_T2	257	289	32	1.34	1.37	0.03	0	0	0	0	0	0	0	0
7/16/2024 14:26	46205	DANV_T2	23	27	4	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
7/16/2024 14:26	29401	BELT_T1	36	37	1	0.75	0.84	0.09	0	0	0	0	0	0	0	0
7/16/2024 14:26	46204	DANV_T2	255	272	17	1.29	1.28	-0.01	0	0	0	0	0	0	0	0
7/16/2024 14:26	46203	DANV_T2	10	25	15	0.52	0.63	0.11	-1.7	-1.74	0	0	0	0	0	0
7/16/2024 14:26	59101	WALK_T2	1	2	1	0.8	0.7	-0.1	0.06	0.13	2	2	0	1200	1200	0
7/16/2024 14:28	47401	PENS_T1	17	26	9	0.56	0.7	0.14	0.77	0.77	0	0	0	0	0	0
7/16/2024 14:28	47402	PENS_T1	4	11	7	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/16/2024 14:28	47403	PENS_T1	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
7/16/2024 14:29	26402	INOR_T1	167	167	0	1.56	1.22	-0.34	0	0	0	0	0	0	0	0
7/16/2024 14:29	26401	INOR_T1	159	159	0	1.26	1.15	-0.11	1.77	1.76	0	0	0	0	0	0
7/16/2024 14:30	46203	DANV_T2	25	9	-16	0.51	0.63	0.12	-1.7	-1.74	0	0	0	0	0	0
7/16/2024 14:30	46206	DANV_T2	276	301	25	1.39	1.52	0.13	0	0	0	0	0	0	0	0
7/16/2024 14:30	58402	MORO_T1	14	17	3	0.64	0.25	-0.39	-1.2	-0.98	5	4	-1	3150	2850	-300
7/16/2024 14:30	46205	DANV_T2	27	25	-2	0.82	0.65	-0.17	0	0	0	0	0	0	0	0
7/16/2024 14:30	58401	MORO_T1	14	13	-1	0.62	0.44	-0.18	0	0	0	0	0	0	0	0
7/16/2024 14:30	46204	DANV_T2	262	266	4	1.29	1.29	0	0	0	0	0	0	0	0	0
7/16/2024 14:33	64701	LITI_T1	28	29	1	2.14	1.98	-0.16	0	0	0	0	0	0	0	0
7/16/2024 14:33	64704	LITI_T1	1	0	-1	0.3	0	-0.3	1.07	1.15	1	1	0	600	600	0
7/16/2024 14:34	51003	NHAR_T1	8	6	-2	0.96	0.33	-0.63	0	0	0	0	0	0	0	0
7/16/2024 14:34	51004	NHAR_T1	8	23	15	1.41	1.25	-0.16	-2.15	-2.2	0	0	0	0	0	0
7/16/2024 14:35	21206	ECAR_T2	374	424	50	1.27	1.31	0.04	1.02	1.06	0	0	0	0	0	0
7/16/2024 14:35	57404	SPAN_T2	52	41	-11	0.68	0.66	-0.02	-0.13	-0.29	1	1	0	1200	1200	0
7/16/2024 14:35	57402	SPAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 14:35	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 14:35	21202	ECAR_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/16/2024 14:37	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 14:37	21202	ECAR_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/16/2024 14:37	21206	ECAR_T2	374	424	50	1.27	1.31	0.04	1.06	1.03	0	0	0	0	0	0
7/16/2024 14:38	64101	REFR_T1	46	57	11	1.22	1.43	0.21	-0.36	-0.44	0	0	0	0	0	0
7/16/2024 14:38	12704	MACU_T1	14	11	-3	0.84	0.72	-0.12	0	0	0	0	0	0	0	0
7/16/2024 14:38	12701	MACU_T1	138	158	20	0.86	0.86	0	-0.36	-0.36	1	1	0	1200	1200	0
7/16/2024 14:40	58705	ROSE_T2	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
7/16/2024 14:40	58706	ROSE_T2	21	14	-7	0.83	0.72	-0.11	0.64	0.71	1	1	0	600	600	0
7/16/2024 14:40	58701	ROSE_T2	19	25	6	0.59	0.54	-0.05	0	0	0	0	0	0	0	0
7/16/2024 14:40	58702	ROSE_T2	10	15	5	0.61	1.11	0.5	0	0	0	0	0	0	0	0
7/16/2024 14:41	61304	EARL_T1	0	10	10	0	0.12	0.12	0	0	0	0	0	0	0	0
7/16/2024 14:41	60502	NMAN_T2	0	0	0	0	0	0	0.02	0.14	0	0	0	0	0	0
7/16/2024 14:41	61303	EARL_T1	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
7/16/2024 14:41	60501	NMAN_T2	1	2	1	0.6	1.35	0.75	0	0	0	0	0	0	0	0
7/16/2024 14:42	67503	WEWI_T2	205	251	46	0.74	0.74	0	0.6	0.61	0	0	0	0	0	0
7/16/2024 14:42	67502	WEWI_T2	154	180	26	1.14	1.08	-0.06	0	0	0	0	0	0	0	0
7/16/2024 14:42	61304	EARL_T1	0	10	10	0	0.12	0.12	0	0	0	0	0	0	0	0
7/16/2024 14:42	61303	EARL_T1	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
7/16/2024 14:44	52404	GRPA_T2	168	197	29	1.17	0.77	-0.4	0	0	0	0	0	0	0	0
7/16/2024 14:44	64203	KINZ_T1	1140	1164	24	1.16	1.13	-0.03	0	0	0	0	0	0	0	0
7/16/2024 14:44	52401	GRPA_T2	150	171	21	1.07	0.79	-0.28	-0.42	-0.44	0	0	0	0	0	0
7/16/2024 14:44	64202	KINZ_T1	103	104	1	2.06	2.06	0	0	0	0	0	0	0	0	0
7/16/2024 14:44	52402	GRPA_T2	96	104	8	0.71	0.71	0	0	0	0	0	0	0	0	0
7/16/2024 14:44	64201	KINZ_T1	788	853	65	1.81	1.69	-0.12	-0.46	-0.47	5	5	0	3300	3300	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/16/2024 14:44	52403	GRPA_T2	275	280	5	1.93	1.62	-0.31	0	0	0	0	0	0	0	0
7/16/2024 14:44	64204	KINZ_T1	650	660	10	1.21	1.22	0.01	0	0	0	0	0	0	0	0
7/16/2024 14:45	64202	KINZ_T1	104	102	-2	2.08	2.07	-0.01	0	0	0	0	0	0	0	0
7/16/2024 14:45	64203	KINZ_T1	1136	1153	17	1.18	1.1	-0.08	0	0	0	0	0	0	0	0
7/16/2024 14:45	64201	KINZ_T1	847	778	-69	1.67	1.72	0.05	-0.46	-0.47	5	5	0	3300	3300	0
7/16/2024 14:45	64204	KINZ_T1	654	649	-5	1.27	1.22	-0.05	0	0	0	0	0	0	0	0
7/16/2024 14:46	52004	LING_T2	1	2	1	0.9	0.2	-0.7	0.67	0.73	0	0	0	0	0	0
7/16/2024 14:46	52006	LING_T2	17	10	-7	1.09	1.36	0.27	0	0	0	0	0	0	0	0
7/16/2024 14:46	61303	EARL_T1	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
7/16/2024 14:46	61304	EARL_T1	10	6	-4	0.11	0	-0.11	0	0	0	0	0	0	0	0
7/16/2024 14:46	52002	LING_T2	71	50	-21	0.62	0.37	-0.25	0	0	0	0	0	0	0	0
7/16/2024 14:48	52401	GRPA_T2	170	127	-43	0.89	0.76	-0.13	0	0	0	0	0	0	0	0
7/16/2024 14:48	13501	MCMI_T1	0	0	0	0	0	0	0.77	0.77	0	0	0	0	0	0
7/16/2024 14:48	52402	GRPA_T2	96	96	0	0.67	0.6	-0.07	-0.74	-1.84	0	2	2	0	1200	1200
7/16/2024 14:48	52403	GRPA_T2	278	253	-25	1.93	1.48	-0.45	0	0	0	0	0	0	0	0
7/16/2024 14:48	40101	HUNT_T2	712	732	20	1.73	1.61	-0.12	-0.56	-0.66	0	0	0	0	0	0
7/16/2024 14:48	52404	GRPA_T2	197	123	-74	1.01	0.62	-0.39	0	0	0	0	0	0	0	0
7/16/2024 14:49	42903	MIDD_T2	6	68	62	0.4	0.73	0.33	0	0	0	0	0	0	0	0
7/16/2024 14:49	40101	HUNT_T2	712	732	20	1.73	1.61	-0.12	-0.56	-0.66	0	0	0	0	0	0
7/16/2024 14:49	42901	MIDD_T2	5	27	22	1	0.75	-0.25	0	0	0	0	0	0	0	0
7/16/2024 14:49	42902	MIDD_T2	27	31	4	2.46	3.03	0.57	0.04	0.01	2	2	0	900	900	0
7/16/2024 14:51	47401	PENS_T1	10	10	0	0.75	0.73	-0.02	0.88	0.82	0	0	0	0	0	0
7/16/2024 14:51	47403	PENS_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/16/2024 14:54	47403	PENS_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/16/2024 14:54	47401	PENS_T1	10	10	0	0.75	0.73	-0.02	0.88	0.82	0	0	0	0	0	0
7/16/2024 14:57	58401	MORO_T1	11	11	0	0.57	0.48	-0.09	0	0	0	0	0	0	0	0
7/16/2024 14:57	58402	MORO_T1	17	2	-15	0.6	0	-0.6	-1.53	-1.56	5	5	0	3450	3450	0
7/16/2024 14:58	53902	HALI_T2	5	5	0	1.38	1.85	0.47	0	0	0	0	0	0	0	0
7/16/2024 14:58	53903	HALI_T2	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
7/16/2024 14:59	29402	BELT_T1	22	10	-12	0.7	1.31	0.61	0	0	0	0	0	0	0	0
7/16/2024 14:59	29401	BELT_T1	29	41	12	0.72	0.97	0.25	0	0	0	0	0	0	0	0
7/16/2024 15:00	53903	HALI_T2	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
7/16/2024 15:00	53901	HALI_T2	0	1	1	0	0	0	-0.67	-0.67	0	0	0	0	0	0
7/16/2024 15:00	53902	HALI_T2	5	5	0	0.98	3.6	2.62	0	0	0	0	0	0	0	0
7/16/2024 15:03	48301	ORWI_T1	301	328	27	0.7	0.68	-0.02	1.41	1.34	0	0	0	0	0	0
7/16/2024 15:03	43201	MVIL_T2	7	15	8	0.33	0.43	0.1	0	0	0	0	0	0	0	0
7/16/2024 15:03	43202	MVIL_T2	196	27	-169	5.18	0.53	-4.65	-0.31	0.04	0	0	0	0	0	0
7/16/2024 15:06	48301	ORWI_T1	301	328	27	0.7	0.68	-0.02	1.41	1.34	0	0	0	0	0	0
7/16/2024 15:07	48301	ORWI_T1	301	328	27	0.7	0.68	-0.02	1.34	1.33	0	0	0	0	0	0
7/16/2024 15:07	41901	REED_T1	3	7	4	0.23	0.27	0.04	0	0	0	0	0	0	0	0
7/16/2024 15:07	54601	SUMM_T2	6	14	8	0.82	1.08	0.26	0	0	6	6	0	6000	6000	0
7/16/2024 15:07	54602	SUMM_T2	8	13	5	0.36	0.65	0.29	0	0	0	0	0	0	0	0
7/16/2024 15:07	41903	REED_T1	6	9	3	1.47	1.22	-0.25	0	0	0	0	0	0	0	0
7/16/2024 15:07	41902	REED_T1	216	191	-25	1.26	0.81	-0.45	0.06	0.05	1	1	0	900	900	0
7/16/2024 15:07	54603	SUMM_T2	2	3	1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
7/16/2024 15:08	54602	SUMM_T2	8	13	5	0.36	0.65	0.29	0	0	0	0	0	0	0	0
7/16/2024 15:08	48301	ORWI_T1	301	328	27	0.7	0.68	-0.02	1.34	1.33	0	0	0	0	0	0
7/16/2024 15:08	54601	SUMM_T2	6	14	8	0.82	1.08	0.26	0	0	3	3	0	3000	3000	0
7/16/2024 15:08	54603	SUMM_T2	2	3	1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
7/16/2024 15:09	20403	ASHF_T2	65	100	35	0.7	0.62	-0.08	0.34	0.37	0	0	0	0	0	0
7/16/2024 15:09	20401	ASHF_T2	54	32	-22	0.75	0.74	-0.01	0	0	0	0	0	0	0	0
7/16/2024 15:09	20402	ASHF_T2	83	100	17	0.8	1.03	0.23	0	0	0	0	0	0	0	0
7/16/2024 15:10	16002	DORN_T2	176	202	26	1.18	1.18	0	0.54	0.54	1	1	0	1200	1200	0
7/16/2024 15:10	54603	SUMM_T2	2	3	1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
7/16/2024 15:10	45302	WBER_T2	31	40	9	0.58	0.55	-0.03	1.7	1.73	0	0	0	0	0	0
7/16/2024 15:10	16006	DORN_T2	107	93	-14	1.61	1.41	-0.2	0	0	0	0	0	0	0	0
7/16/2024 15:10	54601	SUMM_T2	6	14	8	0.82	1.08	0.26	0	0	3	3	0	3000	3000	0
7/16/2024 15:10	54602	SUMM_T2	8	13	5	0.36	0.65	0.29	0	0	0	0	0	0	0	0
7/16/2024 15:11	54601	SUMM_T2	6	14	8	0.82	1.08	0.26	0	0	0	0	0	0	0	0
7/16/2024 15:11	54602	SUMM_T2	8	13	5	0.36	0.65	0.29	-2.75	-2.77	1	1	0	600	600	0
7/16/2024 15:11	54603	SUMM_T2	2	3	1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
7/16/2024 15:16	63802	HEMP_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
7/16/2024 15:16	63803	HEMP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/16/2024 15:16	63804	HEMP_T1	11	13	2	1.32	1.6	0.28	0	0	0	0	0	0	0	0
7/16/2024 15:19	61502	EPET_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 15:19	66103	REAM_T2	0	0	0	0	0	0	0.45	0.36	1	1	0	1200	1200	0
7/16/2024 15:19	61505	EPET_T1	1	2	1	1.2	0.3	-0.9	1.17	1.18	0	0	0	0	0	0
7/16/2024 15:20	64101	REFR_T1	33	51	18	1.39	1.21	-0.18	-0.19	-0.19	0	0	0	0	0	0
7/16/2024 15:20	61501	EPET_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
7/16/2024 15:20	41901	REED_T1	2	9	7	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/16/2024 15:20	41903	REED_T1	7	7	0	1.06	1.2	0.14	0	0	0	0	0	0	0	0
7/16/2024 15:20	61506	EPET_T2	0	0	0	0	0	0	-0.5	-0.52	2	2	0	1800	1800	0
7/16/2024 15:20	41902	REED_T1	191	207	16	0.96	0.81	-0.15	0.06	0.05	1	1	0	900	900	0
7/16/2024 15:22	65601	QVIL_T2	7	18	11	0.23	0.24	0.01	0.86	0.92	1	1	0	900	900	0
7/16/2024 15:22	65604	QVIL_T2	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/16/2024 15:24	43202	MVIL_T2	26	19	-7	0.53	0.51	-0.02	-0.38	-0.94	0	0	0	0	0	0
7/16/2024 15:24	43201	MVIL_T2	7	22	15	0.5	0.46	-0.04	0	0	0	0	0	0	0	0
7/16/2024 15:25	16301	ALPA_T1	4	98	94	0.25	0.33	0.08	1.47	1.48	0	0	0	0	0	0
7/16/2024 15:27	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.06	2	2	0	1800	1800	0
7/16/2024 15:27	61304	EARL_T1	0	15	15	0	0.3	0.3	0	0	0	0	0	0	0	0
7/16/2024 15:27	61303	EARL_T1	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
7/16/2024 15:28	46301	ROHR_T1	5	9	4	0.88	0.27	-0.61	0	0	0	0	0	0	0	0
7/16/2024 15:28	46302	ROHR_T1	14	28	14	0.53	0.49	-0.04	0.49	0.52	0	0	0	0	0	0
7/16/2024 15:29	11505	FREE_T1	46	46	0	1.08	1.08	0	0	0	0	0	0	0	0	0
7/16/2024 15:29	11502	FREE_T1	1	3	2	0.2	0.45	0.25	0	0	0	0	0	0	0	0
7/16/2024 15:29	11504	FREE_T1	71	82	11	1.07	0.73	-0.34	-1	-1.05	2	2	0	2100	2100	0
7/16/2024 15:30	46301	ROHR_T1	3	9	6	0.27	0.28	0.01	0	0	0	0	0	0	0	0
7/16/2024 15:30	61303	EARL_T1	1	6	5	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/16/2024 15:30	61304	EARL_T1	6	15	9	0.3	0.48	0.18	0	0	0	0	0	0	0	0
7/16/2024 15:30	46302	ROHR_T1	9	28	19	0.5	0.51	0.01	0.49	0.52	0	0	0	0	0	0
7/16/2024 15:30	61302	EARL_T1	0	0	0	0	0	0	-1.08	-1.06	2	2	0	1800	1800	0
7/16/2024 15:31	40101	HUNT_T2	611	482	-129	1.3	1.22	-0.08	-0.86	-0.95	0	0	0	0	0	0
7/16/2024 15:32	11504	FREE_T1	67	97	30	0.75	0.79	0.04	-1	-1.05	2	2	0	2100	2100	0
7/16/2024 15:32	11505	FREE_T1	42	47	5	1.03	1.04	0.01	0	0	0	0	0	0	0	0
7/16/2024 15:32	11502	FREE_T1	3	2	-1	0.4	1	0.6	0	0	0	0	0	0	0	0
7/16/2024 15:36	41901	REED_T1	7	8	1	0.26	0.31	0.05	0	0	0	0	0	0	0	0
7/16/2024 15:36	41902	REED_T1	168	220	52	0.81	1.32	0.51	0.05	0.07	1	1	0	900	900	0
7/16/2024 15:36	41903	REED_T1	7	7	0	1.13	1.38	0.25	0	0	0	0	0	0	0	0
7/16/2024 15:37	46205	DANV_T2	21	16	-5	1.06	0.67	-0.39	0	0	0	0	0	0	0	0
7/16/2024 15:37	46204	DANV_T2	243	224	-19	1.47	1.51	0.04	0	0	0	0	0	0	0	0
7/16/2024 15:37	56501	ROCK_T2	6	8	2	0.37	0.17	-0.2	-1.69	-1.6	0	0	0	0	0	0
7/16/2024 15:37	56504	ROCK_T2	12	39	27	0.41	0.33	-0.08	0	0	0	0	0	0	0	0
7/16/2024 15:37	59202	THOM_T1	3	11	8	0.37	0.4	0.03	0	0	0	0	0	0	0	0
7/16/2024 15:37	46203	DANV_T2	6	34	28	0.52	0.45	-0.07	-0.44	-0.42	0	0	0	0	0	0
7/16/2024 15:37	46206	DANV_T2	281	255	-26	1.45	1.18	-0.27	0	0	0	0	0	0	0	0
7/16/2024 15:37	56503	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/16/2024 15:38	65901	SAKR_T2	53	33	-20	0.63	0.8	0.17	0	0	0	0	0	0	0	0
7/16/2024 15:38	65903	SAKR_T2	1	1	0	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
7/16/2024 15:38	65902	SAKR_T2	1	3	2	0.2	0	-0.2	-0.44	-0.42	2	2	0	1200	1200	0
7/16/2024 15:39	56501	ROCK_T2	6	8	2	0.37	0.17	-0.2	0	0	0	0	0	0	0	0
7/16/2024 15:39	56503	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/16/2024 15:39	56504	ROCK_T2	12	39	27	0.41	0.33	-0.08	0.27	0.27	0	0	0	0	0	0
7/16/2024 15:40	47002	HUGH_T2	2	3	1	2.1	0	-2.1	0	0	0	0	0	0	0	0
7/16/2024 15:40	47001	HUGH_T2	3	7	4	7.1	7.97	0.87	-0.71	-0.59	1	1	0	900	900	0
7/16/2024 15:41	20401	ASHF_T2	29	58	29	1.11	0.91	-0.2	0	0	0	0	0	0	0	0
7/16/2024 15:41	20403	ASHF_T2	96	196	100	0.59	0.72	0.13	0.41	0.54	0	0	0	0	0	0
7/16/2024 15:41	20402	ASHF_T2	97	218	121	0.99	0.76	-0.23	0	0	0	0	0	0	0	0
7/16/2024 15:44	64201	KINZ_T1	505	449	-56	1.54	0.95	-0.59	0	0	0	0	0	0	0	0
7/16/2024 15:44	64202	KINZ_T1	94	93	-1	1.87	1.71	-0.16	0	0	0	0	0	0	0	0
7/16/2024 15:44	64204	KINZ_T1	579	460	-119	0.94	0.73	-0.21	0	0	0	0	0	0	0	0
7/16/2024 15:44	64203	KINZ_T1	810	638	-172	0.87	0.76	-0.11	0.8	0.74	3	3	0	2100	2100	0
7/16/2024 15:44	64101	REFR_T1	46	54	8	1.34	1.24	-0.1	-0.07	-0.1	0	0	0	0	0	0
7/16/2024 15:45	11001	EGRE_T1	4	4	0	0.55	0.2	-0.35	0.64	0.58	1	1	0	1200	1200	0
7/16/2024 15:49	66503	SMAN_T2	50	47	-3	0.76	0.66	-0.1	0	0	0	0	0	0	0	0
7/16/2024 15:49	66504	SMAN_T2	65	54	-11	0.58	0.61	0.03	0.76	0.7	0	0	0	0	0	0
7/16/2024 15:49	66505	SMAN_T2	66	118	52	0.47	0.66	0.19	0	0	0	0	0	0	0	0
7/16/2024 15:50	66504	SMAN_T2	65	54	-11	0.58	0.61	0.03	0.76	0.7	0	0	0	0	0	0
7/16/2024 15:50	66505	SMAN_T2	66	118	52	0.47	0.66	0.19	0	0	0	0	0	0	0	0
7/16/2024 15:50	66503	SMAN_T2	50	47	-3	0.76	0.66	-0.1	0	0	0	0	0	0	0	0
7/16/2024 15:54	15001	BLMO_T1	159	215	56	0.55	0.54	-0.01	0	0	0	0	0	0	0	0
7/16/2024 15:54	56501	ROCK_T2	3	7	4	0.13	0.23	0.1	-1.6	-1.6	0	0	0	0	0	0
7/16/2024 15:54	56504	ROCK_T2	15	45	30	0.33	0.76	0.43	0	0	0	0	0	0	0	0
7/16/2024 15:54	56503	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/16/2024 15:55	59102	WALK_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/16/2024 15:55	45303	WBER_T2	0	1	1	0	0	0	0	0.04	0	0	0	0	0	0
7/16/2024 15:55	59101	WALK_T2	6	6	0	0.25	0.3	0.05	0.13	0.05	2	2	0	1200	1200	0
7/16/2024 15:55	45302	WBER_T2	40	41	1	1.5	1.04	-0.46	0	0	0	0	0	0	0	0
7/16/2024 15:56	15001	BLMO_T1	159	215	56	0.55	0.54	-0.01	0	0	0	0	0	0	0	0
7/16/2024 15:57	10601	BLGL_T1	17	368	351	0.79	3.33	2.54	0	0	0	0	0	0	0	0
7/16/2024 15:57	10603	BLGL_T1	553	631	78	1.92	1.58	-0.34	0.03	0.08	0	0	0	0	0	0
7/16/2024 15:58	15001	BLMO_T1	159	215	56	0.55	0.54	-0.01	0	0	0	0	0	0	0	0
7/16/2024 15:59	62105	ELAN_T1	4	5	1	0.6	0.63	0.03	0	0	0	0	0	0	0	0
7/16/2024 15:59	62102	ELAN_T1	12	5	-7	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
7/16/2024 15:59	62104	ELAN_T1	10	14	4	0.97	0.4	-0.57	1.74	1.71	2	2	0	1500	1500	0
7/16/2024 16:00	51401	LYKE_T1	1	1	0	0.3	0	-0.3	0.59	0.62	0	0	0	0	0	0
7/16/2024 16:01	61701	ELIZ_T1	1	1	0	3.2	3.5	0.3	2.07	1.99	0	0	0	0	0	0
7/16/2024 16:01	20603	GRWO_T2	1	3	2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/16/2024 16:01	20601	GRWO_T2	100	408	308	1.04	1.76	0.72	-0.39	0.73	1	0	-1	1200	0	-1200
7/16/2024 16:04	51401	LYKE_T1	1	1	0	0.3	0	-0.3	0.59	0.62	0	0	0	0	0	0
7/16/2024 16:07	57301	MOAL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/16/2024 16:07	57304	MOAL_T2	40	58	18	1.41	1.29	-0.12	0.24	0.29	0	0	0	0	0	0
7/16/2024 16:07	57303	MOAL_T2	1	1	0	8	8.3	0.3	0	0	0	0	0	0	0	0
7/16/2024 16:09	46203	DANV_T2	30	18	-12	0.45	0.52	0.07	-0.38	-0.41	0	0	0	0	0	0
7/16/2024 16:09	46204	DANV_T2	208	149	-59	1.52	0.69	-0.83	0	0	0	0	0	0	0	0
7/16/2024 16:09	46205	DANV_T2	11	3	-8	0.67	0.2	-0.47	0	0	0	0	0	0	0	0
7/16/2024 16:09	46206	DANV_T2	198	84	-114	1.21	0.86	-0.35	0	0	0	0	0	0	0	0
7/16/2024 16:09	67602	WARW_T2	8	13	5	0.76	0.4	-0.36	0.76	0.79	2	2	0	1500	1500	0
7/16/2024 16:10	67602	WARW_T2	8	13	5	0.76	0.4	-0.36	0.76	0.79	2	2	0	1500	1500	0
7/16/2024 16:11	15001	BLMO_T1	195	229	34	0.57	0.57	0	0	0	0	0	0	0	0	0
7/16/2024 16:11	67602	WARW_T2	8	13	5	0.76	0.4	-0.36	0.76	0.79	2	2	0	1500	1500	0
7/16/2024 16:11	67605	WARW_T1	1	1	0	0.4	1.4	1	0	0	0	0	0	0	0	0
7/16/2024 16:11	67603	WARW_T1	0	0	0	0	0	0	-1.9	-1.88	0	0	0	0	0	0
7/16/2024 16:13	53901	HALI_T2	0	3	3	0	1.1	1.1	-1.5	-1.55	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/16/2024 16:13	53902	HALI_T2	4	6	2	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
7/16/2024 16:14	53901	HALI_T2	0	3	3	0	1.1	1.1	-0.75	-0.78	0	0	0	0	0	0
7/16/2024 16:14	53902	HALI_T2	4	6	2	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
7/16/2024 16:14	40902	JESH_T1	2	4	2	0.55	1.37	0.82	-1.06	-1.01	3	3	0	1800	1800	0
7/16/2024 16:14	40901	JESH_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
7/16/2024 16:15	53902	HALI_T2	6	5	-1	1	0.9	-0.1	0	0	0	0	0	0	0	0
7/16/2024 16:15	53901	HALI_T2	2	2	0	1.15	0.2	-0.95	-0.75	-0.78	0	0	0	0	0	0
7/16/2024 16:17	53902	HALI_T2	6	5	-1	1	0.9	-0.1	0	0	0	0	0	0	0	0
7/16/2024 16:17	53901	HALI_T2	2	2	0	1.15	0.2	-0.95	-0.75	-0.78	0	0	0	0	0	0
7/16/2024 16:18	20603	GRWO_T2	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/16/2024 16:18	53901	HALI_T2	2	2	0	1.15	0.2	-0.95	-0.75	-0.78	0	0	0	0	0	0
7/16/2024 16:18	53902	HALI_T2	6	5	-1	1	0.9	-0.1	0	0	0	0	0	0	0	0
7/16/2024 16:18	20601	GRWO_T2	404	396	-8	1.73	1.89	0.16	0.73	0.67	0	0	0	0	0	0
7/16/2024 16:18	64904	MILL_T1	8	11	3	0.44	0.4	-0.04	0.12	0.1	0	0	0	0	0	0
7/16/2024 16:21	48303	ORWI_T2	5	6	1	0.68	0.62	-0.06	1.12	1.07	0	0	0	0	0	0
7/16/2024 16:21	48302	ORWI_T2	243	346	103	1.27	1.33	0.06	0	0	0	0	0	0	0	0
7/16/2024 16:22	58203	NEWV_T2	147	171	24	3.76	3.17	-0.59	-0.57	-0.57	0	0	0	0	0	0
7/16/2024 16:24	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 16:24	54505	ENOL_T2	0	0	0	0	0	0	-0.16	-0.15	1	1	0	600	600	0
7/16/2024 16:24	54501	ENOL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/16/2024 16:24	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 16:30	23203	HIRU_T2	157	173	16	0.39	0.39	0	0.31	0.31	0	0	0	0	0	0
7/16/2024 16:30	11505	FREE_T1	37	39	2	1	0.95	-0.05	0	0	0	0	0	0	0	0
7/16/2024 16:30	23201	HIRU_T2	120	139	19	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
7/16/2024 16:30	23202	HIRU_T2	224	174	-50	0.27	0.24	-0.03	0.35	0.35	0	0	0	0	0	0
7/16/2024 16:30	11504	FREE_T1	90	106	16	1.04	0.88	-0.16	-0.98	-1.01	2	2	0	2100	2100	0
7/16/2024 16:30	11502	FREE_T1	2	3	1	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
7/16/2024 16:31	52402	GRPA_T2	90	109	19	0.95	1.75	0.8	0	0	0	0	0	0	0	0
7/16/2024 16:31	52403	GRPA_T2	245	254	9	1.51	1.68	0.17	0	0	0	0	0	0	0	0
7/16/2024 16:31	52404	GRPA_T2	96	108	12	1.45	0.99	-0.46	0	0	0	0	0	0	0	0
7/16/2024 16:31	52401	GRPA_T2	184	272	88	1.56	1.45	-0.11	-0.38	-0.35	0	0	0	0	0	0
7/16/2024 16:32	23203	HIRU_T2	157	173	16	0.39	0.39	0	0.62	0.62	0	0	0	0	0	0
7/16/2024 16:32	52003	LING_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/16/2024 16:32	52001	LING_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
7/16/2024 16:32	23202	HIRU_T2	224	174	-50	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
7/16/2024 16:32	23201	HIRU_T2	120	139	19	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
7/16/2024 16:34	61505	EPET_T1	4	3	-1	0.23	0	-0.23	1.3	1.3	0	0	0	0	0	0
7/16/2024 16:34	61502	EPET_T1	6	3	-3	0.65	0.15	-0.5	0	0	0	0	0	0	0	0
7/16/2024 16:35	61102	BERK_T5	0	176	176	0	0	0	-0.59	0.79	3	3	0	2400	2400	0
7/16/2024 16:35	61101	BERK_T5	6	0	-6	0.47	0	-0.47	0	0	0	0	0	0	0	0
7/16/2024 16:36	61102	BERK_T5	0	176	176	0	0	0	0.79	-0.2	3	3	0	2400	2400	0
7/16/2024 16:36	61101	BERK_T5	6	0	-6	0.47	0	-0.47	0	0	0	0	0	0	0	0
7/16/2024 16:37	15601	NSTR_T2	64	104	40	0.47	0.59	0.12	0	0	0	0	0	0	0	0
7/16/2024 16:37	15602	NSTR_T2	10	7	-3	0.67	0	-0.67	0.65	0.56	0	0	0	0	0	0
7/16/2024 16:39	16603	POND_T2	0	0	0	0	0	0	2.42	2.38	1	1	0	1200	1200	0
7/16/2024 16:42	47002	HUGH_T2	3	5	2	0.17	0.25	0.08	0	0	0	0	0	0	0	0
7/16/2024 16:42	47001	HUGH_T2	3	17	14	7.53	6.57	-0.96	-0.56	-0.57	1	1	0	900	900	0
7/16/2024 16:43	15001	BLMO_T1	189	197	8	0.62	0.43	-0.19	0	0	0	0	0	0	0	0
7/16/2024 16:43	61701	ELIZ_T1	1	2	1	3.5	1.9	-1.6	1.93	1.99	0	0	0	0	0	0
7/16/2024 16:43	41301	FISH_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
7/16/2024 16:43	67703	WERN_T2	10	1178	1168	0.4	0.7	0.3	0	-0.01	1	1	0	900	900	0
7/16/2024 16:43	41303	FISH_T1	1	1	0	3.3	2.9	-0.4	0	0	0	0	0	0	0	0
7/16/2024 16:43	67701	WERN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 16:45	41301	FISH_T1	1	1	0	1.3	1.5	0.2	-0.21	-0.22	0	0	0	0	0	0
7/16/2024 16:45	41303	FISH_T1	1	1	0	3.2	2	-1.2	0	0	0	0	0	0	0	0
7/16/2024 16:52	14605	SWHI_T1	152	139	-13	1	0.54	-0.46	0	0	0	0	0	0	0	0
7/16/2024 16:52	14601	SWHI_T1	2	2	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
7/16/2024 16:52	14602	SWHI_T1	2	828	826	0.25	4.61	4.36	0	0	0	0	0	0	0	0
7/16/2024 16:52	14603	SWHI_T1	14	10	-4	0.45	0.2	-0.25	83.96	83.96	2	2	0	1200	1200	0
7/16/2024 16:53	67703	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	2	2	0	1800	1800	0
7/16/2024 16:53	47002	HUGH_T2	5	2	-3	0.48	0	-0.48	0	0	0	0	0	0	0	0
7/16/2024 16:53	47001	HUGH_T2	3	6	3	6.57	7.47	0.9	-0.57	-0.55	1	1	0	900	900	0
7/16/2024 16:53	67605	WARW_T1	1	3	2	0.7	1.3	0.6	-0.1	-0.11	0	0	0	0	0	0
7/16/2024 16:54	67602	WARW_T2	10	11	1	1.38	0.91	-0.47	0.78	0.72	2	2	0	1500	1500	0
7/16/2024 16:54	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/16/2024 16:55	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/16/2024 16:55	67605	WARW_T1	1	3	2	0.7	1.3	0.6	-0.1	-0.11	0	0	0	0	0	0
7/16/2024 16:55	67605	WARW_T1	1	3	2	0.7	1.3	0.6	-0.1	-0.11	0	0	0	0	0	0
7/16/2024 16:55	67605	WARW_T1	1	3	2	0.7	1.3	0.6	-0.1	-0.11	0	0	0	0	0	0
7/16/2024 16:56	22602	KIMB_T1	52	35	-17	4.65	4.8	0.15	0.01	0.02	0	0	0	0	0	0
7/16/2024 16:57	67803	WLAN_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 16:57	67804	WLAN_T1	10	12	2	2.32	2.44	0.12	0	0	0	0	0	0	0	0
7/16/2024 16:57	67801	WLAN_T1	162	175	13	0.56	0.54	-0.02	-1.26	-1.2	0	0	0	0	0	0
7/16/2024 16:57	14603	SWHI_T1	14	10	-4	0.45	0.2	-0.25	83.96	83.96	2	2	0	1200	1200	0
7/16/2024 16:57	14605	SWHI_T1	152	139	-13	1	0.54	-0.46	0	0	0	0	0	0	0	0
7/16/2024 16:57	67602	WARW_T2	10	11	1	1.38	0.91	-0.47	0.78	0.72	2	2	0	1500	1500	0
7/16/2024 16:57	14601	SWHI_T1	2	2	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
7/16/2024 16:57	14602	SWHI_T1	2	828	826	0.25	4.61	4.36	0	0	0	0	0	0	0	0
7/16/2024 16:59	26402	INOR_T1	170	123	-47	1.53	0.72	-0.81	0	0	0	0	0	0	0	0
7/16/2024 16:59	26401	INOR_T1	156	98	-58	1.18	0.58	-0.6	1.48	1.45	0	0	0	0	0	0
7/16/2024 16:59	29402	BELT_T1	3	20	17	3.27	1.49	-1.78	0	0	0	0	0	0	0	0
7/16/2024 16:59	29401	BELT_T1	41	41	0	1.05	0.98	-0.07	0	0	0	0	0	0	0	0
7/16/2024 17:01	26402	INOR_T1	123	104	-19	0.74	0.6	-0.14	-1.44	-1.46	2	2	0	900	900	0
7/16/2024 17:01	26401	INOR_T1	96	62	-34	0.79	0.52	-0.27	1.48	1.45	0	0	0	0	0	0
7/16/2024 17:02	66503	SMAN_T2	64	65	1	0.68	0.69	0.01	0	0	0	0	0	0	0	0
7/16/2024 17:02	66504	SMAN_T2	45	98	53	0.55	0.66	0.11	0.64	0.58	0	0	0	0	0	0
7/16/2024 17:02	66505	SMAN_T2	1	15	14	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/16/2024 17:03	67703	WERN_T2	8	4	-4	0.7	0.3	-0.4	-0.01	-0.01	1	1	0	900	900	0
7/16/2024 17:04	48301	ORWI_T1	205	257	52	0.63	0.53	-0.1	1.23	1.26	0	0	0	0	0	0
7/16/2024 17:05	13904	SEID_T1	132	104	-28	1.89	1.04	-0.85	-0.16	-0.24	0	0	0	0	0	0
7/16/2024 17:05	47002	HUGH_T2	2	2	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/16/2024 17:05	13903	SEID_T1	107	57	-50	1	0.84	-0.16	0	0	0	0	0	0	0	0
7/16/2024 17:05	13905	SEID_T1	2	3	1	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/16/2024 17:05	47001	HUGH_T2	3	6	3	5.47	4.82	-0.65	-0.57	-0.55	1	1	0	900	900	0
7/16/2024 17:05	13902	SEID_T1	12	4	-8	0.68	0	-0.68	0	0	0	0	0	0	0	0
7/16/2024 17:07	13904	SEID_T1	132	104	-28	1.89	1.04	-0.85	-0.24	-0.22	0	0	0	0	0	0
7/16/2024 17:07	13902	SEID_T1	12	4	-8	0.68	0	-0.68	0	0	0	0	0	0	0	0
7/16/2024 17:07	13905	SEID_T1	2	3	1	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/16/2024 17:07	13903	SEID_T1	107	57	-50	1	0.84	-0.16	0	0	0	0	0	0	0	0
7/16/2024 17:09	20403	ASHF_T2	82	138	56	0.63	0.68	0.05	0.57	0.59	0	0	0	0	0	0
7/16/2024 17:09	20402	ASHF_T2	200	260	60	0.87	1.03	0.16	0	0	0	0	0	0	0	0
7/16/2024 17:09	67605	WARW_T1	3	3	0	0.93	1.3	0.37	-0.11	-0.05	0	0	0	0	0	0
7/16/2024 17:09	20401	ASHF_T2	48	82	34	0.6	0.71	0.11	0	0	0	0	0	0	0	0
7/16/2024 17:10	20403	ASHF_T2	82	138	56	0.63	0.68	0.05	0.57	0.59	0	0	0	0	0	0
7/16/2024 17:10	20401	ASHF_T2	48	82	34	0.6	0.71	0.11	0	0	0	0	0	0	0	0
7/16/2024 17:10	67605	WARW_T1	3	3	0	0.93	1.3	0.37	-0.11	-0.05	0	0	0	0	0	0
7/16/2024 17:10	20402	ASHF_T2	200	260	60	0.87	1.03	0.16	0	0	0	0	0	0	0	0
7/16/2024 17:11	62105	ELAN_T1	4	4	0	1.1	0.75	-0.35	0	0	0	0	0	0	0	0
7/16/2024 17:11	62104	ELAN_T1	13	12	-1	0.67	0.28	-0.39	0	0	0	0	0	0	0	0
7/16/2024 17:11	62102	ELAN_T1	4	11	7	0.78	1.34	0.56	0.43	0.51	0	0	0	0	0	0
7/16/2024 17:12	61303	EARL_T1	6	3	-3	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
7/16/2024 17:12	61304	EARL_T1	12	15	3	0.95	0.88	-0.07	-0.65	-0.67	2	2	0	1200	1200	0
7/16/2024 17:17	67703	WERN_T2	1	14	13	0.3	0.3	0	-0.01	-0.01	1	1	0	900	900	0
7/16/2024 17:21	58705	ROSE_T2	3	3	0	0.33	1.15	0.82	0	0	0	0	0	0	0	0
7/16/2024 17:21	58706	ROSE_T2	19	29	10	0.98	1.02	0.04	0	0	0	0	0	0	0	0
7/16/2024 17:21	58702	ROSE_T2	14	17	3	1	0.98	-0.02	0	0	0	0	0	0	0	0
7/16/2024 17:21	58701	ROSE_T2	36	42	6	0.92	0.55	-0.37	-1.04	-1.05	1	1	0	600	600	0
7/16/2024 17:22	22602	KIMB_T1	35	35	0	4.82	5.4	0.58	0.01	0.02	0	0	0	0	0	0
7/16/2024 17:22	48302	ORWI_T2	331	358	27	1.31	1.24	-0.07	0.28	0.29	0	0	0	0	0	0
7/16/2024 17:22	48303	ORWI_T2	7	8	1	0.23	0.58	0.35	0	0	0	0	0	0	0	0
7/16/2024 17:23	47002	HUGH_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 17:23	47001	HUGH_T2	5	4	-1	4.66	7.1	2.44	-0.53	-0.52	1	1	0	900	900	0
7/16/2024 17:25	47002	HUGH_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 17:25	47001	HUGH_T2	5	4	-1	4.66	7.1	2.44	-0.53	-0.52	1	1	0	900	900	0
7/16/2024 17:28	41602	CLEV_T1	196	227	31	1.69	1.5	-0.19	0	0	1	1	0	600	600	0
7/16/2024 17:29	53901	HALI_T2	4	4	0	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
7/16/2024 17:29	53902	HALI_T2	16	22	6	0.53	0.79	0.26	-0.14	-0.19	0	0	0	0	0	0
7/16/2024 17:30	64204	KINZ_T1	2	3	1	1.5	0.27	-1.23	0	0	0	0	0	0	0	0
7/16/2024 17:30	53902	HALI_T2	19	18	-1	0.73	0.8	0.07	-0.14	-0.19	0	0	0	0	0	0
7/16/2024 17:30	64202	KINZ_T1	5	16	11	0.78	0.74	-0.04	0	0	0	0	0	0	0	0
7/16/2024 17:30	53901	HALI_T2	3	4	1	0.57	0.35	-0.22	0	0	0	0	0	0	0	0
7/16/2024 17:30	64203	KINZ_T1	2	2	0	1.2	1.6	0.4	-0.79	-0.88	3	3	0	2100	2100	0
7/16/2024 17:30	67703	WERN_T2	4	14	10	0.33	0.43	0.1	-0.02	-0.02	2	2	0	1800	1800	0
7/16/2024 17:32	53901	HALI_T2	3	4	1	0.57	0.35	-0.22	0	0	0	0	0	0	0	0
7/16/2024 17:32	67703	WERN_T2	4	14	10	0.33	0.43	0.1	-0.01	-0.01	1	1	0	900	900	0
7/16/2024 17:32	53902	HALI_T2	19	18	-1	0.73	0.8	0.07	-0.14	-0.19	0	0	0	0	0	0
7/16/2024 17:33	53901	HALI_T2	3	4	1	0.57	0.35	-0.22	0	0	0	0	0	0	0	0
7/16/2024 17:33	53902	HALI_T2	19	18	-1	0.73	0.8	0.07	-0.28	-0.38	0	0	0	0	0	0
7/16/2024 17:34	61502	EPET_T1	0	3	3	0	0.55	0.55	0	0	0	0	0	0	0	0
7/16/2024 17:34	61505	EPET_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/16/2024 17:34	61503	EPET_T1	0	0	0	0	0	0	0.01	-0.12	1	1	0	600	600	0
7/16/2024 17:35	27605	PIRI_T2	916	927	11	1.18	1.22	0.04	1.89	1.85	0	0	0	0	0	0
7/16/2024 17:35	61502	EPET_T1	0	3	3	0	0.55	0.55	0	0	0	0	0	0	0	0
7/16/2024 17:35	61503	EPET_T1	0	0	0	0	0	0	0.01	-0.12	1	1	0	600	600	0
7/16/2024 17:35	61505	EPET_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/16/2024 17:35	27603	PIRI_T2	1	1	0	3.3	1.2	-2.1	0	0	0	0	0	0	0	0
7/16/2024 17:41	20403	ASHF_T2	120	157	37	0.74	0.54	-0.2	0.59	0.59	0	0	0	0	0	0
7/16/2024 17:41	20401	ASHF_T2	82	42	-40	0.82	0.91	0.09	0	0	0	0	0	0	0	0
7/16/2024 17:41	20402	ASHF_T2	250	248	-2	1.12	0.84	-0.28	0	0	0	0	0	0	0	0
7/16/2024 17:42	20403	ASHF_T2	120	157	37	0.74	0.54	-0.2	0.59	0.59	0	0	0	0	0	0
7/16/2024 17:42	20402	ASHF_T2	250	248	-2	1.12	0.84	-0.28	0	0	0	0	0	0	0	0
7/16/2024 17:42	46001	BERW_T1	17	26	9	0.38	0.31	-0.07	1.48	1.49	0	0	0	0	0	0
7/16/2024 17:42	20401	ASHF_T2	82	42	-40	0.82	0.91	0.09	0	0	0	0	0	0	0	0
7/16/2024 17:45	67703	WERN_T2	13	18	5	0.62	0.41	-0.21	-0.01	-0.01	1	1	0	900	900	0
7/16/2024 17:46	58803	COCO_T1	45	24	-21	0.48	0.31	-0.17	0.09	0.06	1	1	0	600	600	0
7/16/2024 17:48	11103	EGYP_T1	0	0	0	0	0	0	-0.05	1.17	0	0	0	0	0	0
7/16/2024 17:48	11101	EGYP_T1	5	4	-1	1.36	1.9	0.54	0	0	0	0	0	0	0	0
7/16/2024 17:48	11104	EGYP_T1	6	6	0	1.33	1.28	-0.05	0	0	0	0	0	0	0	0
7/16/2024 17:48	11102	EGYP_T1	9	16	7	0.34	0.28	-0.06	0	0	0	0	0	0	0	0
7/16/2024 21:35	43304	WATS_T2	51	47	-4	0.98	0.8	-0.18	-0.81	-0.88	0	0	0	0	0	0
7/16/2024 21:35	43301	WATS_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/16/2024 21:35	61102	BERK_T5	0	0	0	0	0	0	0.15	0.09	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/16/2024 21:36	52402	GRPA_T2	17	17	0	0.6	0.6	0	0	0	0	0	0	0	0	0
7/16/2024 21:36	52401	GRPA_T2	23	6	-17	0.62	0.1	-0.52	-0.55	-0.52	0	0	0	0	0	0
7/16/2024 21:36	54503	ENOL_T2	0	0	0	0	0	0	-1.45	-1.44	1	1	0	600	600	0
7/16/2024 21:36	52403	GRPA_T2	104	129	25	2.08	1.69	-0.39	0	0	0	0	0	0	0	0
7/16/2024 21:37	57702	PAXT_T1	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
7/16/2024 21:37	54505	ENOL_T2	0	0	0	0	0	0	-0.51	-0.57	1	1	0	600	600	0
7/16/2024 21:37	13202	PALM_T2	0	0	0	0	0	0	-1.9	-1.95	4	4	0	3600	3600	0
7/16/2024 21:38	13904	SEID_T1	14	8	-6	0.65	0.27	-0.38	0	0	0	0	0	0	0	0
7/16/2024 21:38	13903	SEID_T1	6	6	0	0.93	0.72	-0.21	0	0	0	0	0	0	0	0
7/16/2024 21:38	13905	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 21:38	54503	ENOL_T2	0	0	0	0	0	0	-1.44	-1.38	1	1	0	600	600	0
7/16/2024 21:38	63403	HONY_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/16/2024 21:38	13902	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 21:38	63402	HONY_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
7/16/2024 21:39	54503	ENOL_T2	0	0	0	0	0	0	-4.31	-4.15	3	3	0	1800	1800	0
7/16/2024 21:39	11103	EGYP_T1	0	0	0	0	0	0	0.93	0.93	0	0	0	0	0	0
7/16/2024 21:39	13904	SEID_T1	14	8	-6	0.65	0.27	-0.38	0	0	0	0	0	0	0	0
7/16/2024 21:39	11104	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/16/2024 21:39	13903	SEID_T1	6	6	0	0.93	0.72	-0.21	0	0	0	0	0	0	0	0
7/16/2024 21:39	13902	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 21:39	60801	BUCK_T1	3	29	26	0.13	0.25	0.12	0	0	0	0	0	0	0	0
7/16/2024 21:39	13905	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 21:39	60803	BUCK_T1	13	18	5	0.32	0.72	0.4	-0.2	-0.21	1	1	0	600	600	0
7/16/2024 21:39	11001	EGRE_T1	0	0	0	0	0	0	0.01	-0.01	1	1	0	1200	1200	0
7/16/2024 21:39	11102	EGYP_T1	1	2	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/16/2024 21:40	64101	REFR_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
7/16/2024 21:40	13202	PALM_T2	0	0	0	0	0	0	-1.9	-1.95	4	4	0	3600	3600	0
7/16/2024 21:40	54505	ENOL_T2	0	0	0	0	0	0	-0.51	-0.57	1	1	0	600	600	0
7/16/2024 21:40	48301	ORWI_T1	2	2	0	1.25	1.6	0.35	1	0.97	0	0	0	0	0	0
7/16/2024 21:40	43304	WATS_T2	51	47	-4	0.98	0.8	-0.18	-0.88	0	0	0	0	0	0	0
7/16/2024 21:40	43301	WATS_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/16/2024 21:40	61301	EARL_T1	0	0	0	0	0	0	-0.69	-0.57	1	1	0	900	900	0
7/16/2024 21:40	54503	ENOL_T2	0	0	0	0	0	0	-1.44	-1.38	1	1	0	600	600	0
7/16/2024 21:40	61303	EARL_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/16/2024 21:40	56501	ROCK_T2	4	7	3	0.18	0.19	0.01	-2.03	-2.07	0	0	0	0	0	0
7/16/2024 21:40	56504	ROCK_T2	6	6	0	1.07	0	-1.07	0	0	0	0	0	0	0	0
7/16/2024 21:41	43301	WATS_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/16/2024 21:41	43304	WATS_T2	51	47	-4	0.98	0.8	-0.18	-0.88	0	0	0	0	0	0	0
7/16/2024 21:41	60701	BREC_T1	0	0	0	0	0	0	-0.72	-0.74	2	2	0	1200	1200	0
7/16/2024 21:52	51004	NHAR_T1	9	9	0	1.58	1.17	-0.41	0	0	0	0	0	0	0	0
7/16/2024 21:52	51003	NHAR_T1	25	16	-9	0.66	0.98	0.32	-1.8	-1.94	1	1	0	1200	1200	0
7/16/2024 21:58	65601	QVIL_T2	3	5	2	0.2	0.26	0.06	0	0	0	0	0	0	0	0
7/16/2024 21:58	65604	QVIL_T2	1	3	2	0.3	0.27	-0.03	0.91	0.85	0	0	0	0	0	0
7/16/2024 21:58	65603	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/16/2024 21:59	65604	QVIL_T2	1	3	2	0.3	0.27	-0.03	0.91	0.85	0	0	0	0	0	0
7/16/2024 21:59	65601	QVIL_T2	3	5	2	0.2	0.26	0.06	0	0	0	0	0	0	0	0
7/16/2024 21:59	65603	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/16/2024 22:00	58803	COCO_T1	1	1	0	1	0.3	-0.7	-0.66	-0.7	1	1	0	600	600	0
7/16/2024 22:00	57404	SPAN_T2	3	0	-3	0.43	0	-0.43	-2.47	-1.65	2	2	0	2400	2400	0
7/16/2024 22:03	12304	LANA_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/16/2024 22:03	12301	LANA_T2	284	414	130	2.17	2.42	0.25	0	0.07	1	1	0	1200	1200	0
7/16/2024 22:13	10602	BLGL_T2	1	1	0	7.4	7	-0.4	0.81	0.78	0	0	0	0	0	0
7/16/2024 22:13	66703	STRA_T1	0	0	0	0	0	0	0.44	0.35	0	0	0	0	0	0
7/16/2024 22:16	61701	ELIZ_T1	1	1	0	4.4	4.2	-0.2	1.44	1.47	0	0	0	0	0	0
7/16/2024 22:23	10603	BLGL_T1	50	50	0	0.69	0.34	-0.35	0.28	0.23	0	0	0	0	0	0
7/16/2024 22:27	55101	WERT_T1	0	0	0	0	0	0	-2.35	-2.31	4	4	0	3300	3300	0
7/16/2024 22:28	56701	SMEC_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
7/16/2024 22:28	59101	WALK_T2	0	0	0	0	0	0	-0.21	-0.2	1	1	0	600	600	0
7/16/2024 22:28	53902	HALI_T2	1	1	0	3.5	4	0.5	-0.57	-0.6	0	0	0	0	0	0
7/16/2024 22:28	56802	BENV_T2	3	3	0	3.3	0.8	-2.5	-0.71	-0.75	0	0	0	0	0	0
7/16/2024 22:29	56504	ROCK_T2	7	4	-3	0.83	0	-0.83	0.76	0.69	0	0	0	0	0	0
7/16/2024 22:29	57401	SPAN_T1	1	0	-1	0.2	0	-0.2	-1.11	-0.96	1	1	0	600	600	0
7/16/2024 22:29	47101	MARL_T1	87	72	-15	1.34	1.43	0.09	-0.67	-0.73	1	1	0	600	600	0
7/16/2024 22:29	47104	MARL_T1	9	1	-8	0.28	0	-0.28	0	0	0	0	0	0	0	0
7/16/2024 22:29	57403	SPAN_T1	1	1	0	1.9	0	-1.9	0	0	0	0	0	0	0	0
7/16/2024 22:29	26401	INOR_T1	1	1	0	6.8	7.3	0.5	1.01	0.97	0	0	0	0	0	0
7/16/2024 22:29	56501	ROCK_T2	2	15	13	0.25	0.19	-0.06	0	0	0	0	0	0	0	0
7/16/2024 22:30	56501	ROCK_T2	1	15	14	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
7/16/2024 22:30	45303	WBER_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/16/2024 22:30	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/16/2024 22:30	56504	ROCK_T2	4	0	-4	0.83	0	-0.83	0.38	0.35	0	0	0	0	0	0
7/16/2024 22:30	45302	WBER_T2	0	0	0	0	0	0	1.46	1.43	0	0	0	0	0	0
7/16/2024 22:30	51401	LYKE_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
7/16/2024 22:30	52002	LING_T2	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
7/16/2024 22:31	22905	HARW_T1	49	28	-21	1.05	0.86	-0.19	0	0	0	0	0	0	0	0
7/16/2024 22:31	22903	HARW_T1	21	11	-10	1.44	0.46	-0.98	0	0	0	0	0	0	0	0
7/16/2024 22:31	56504	ROCK_T2	4	0	-4	0.83	0	-0.83	0.38	0.35	0	0	0	0	0	0
7/16/2024 22:31	56501	ROCK_T2	1	15	14	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
7/16/2024 22:31	22901	HARW_T1	26	16	-10	0.58	0.61	0.03	-0.01	-0.17	1	1	0	1200	1200	0
7/16/2024 22:32	56501	ROCK_T2	1	15	14	0.2	0.19	-0.01	-2.23	-2.26	0	0	0	0	0	0
7/16/2024 22:32	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 22:32	53902	HALI_T2	1	1	0	3.8	4	0.2	-0.57	-0.6	0	0	0	0	0	0
7/16/2024 22:32	56802	BENV_T2	3	3	0	2.1	0.8	-1.3	-1.41	-1.49	0	0	0	0	0	0
7/16/2024 22:32	48301	ORWI_T1	2	2	0	1.4	1.85	0.45	0.99	0.96	0	0	0	0	0	0
7/16/2024 22:32	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/16/2024 22:32	58001	WCAR_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
7/16/2024 22:32	56504	ROCK_T2	4	0	-4	0.83	0	-0.83	0.38	0.35	0	0	0	0	0	0
7/16/2024 22:32	56803	BENV_T1	0	0	0	0	0	0	0.18	0.15	1	1	0	600	600	0
7/16/2024 22:32	52002	LING_T2	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
7/16/2024 22:32	61703	ELIZ_T1	0	0	0	0	0	0	-1.55	-1.59	1	1	0	900	900	0
7/16/2024 22:32	56801	BENV_T1	5	5	0	0.86	0.48	-0.38	-1.36	-1.39	4	4	0	2400	2400	0
7/16/2024 22:32	58003	WCAR_T1	1	1	0	1	1	0	0.41	0.37	1	1	0	600	600	0
7/16/2024 22:32	57403	SPAN_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
7/16/2024 22:32	61701	ELIZ_T1	1	1	0	4.1	4.2	0.1	0	0	0	0	0	0	0	0
7/16/2024 22:32	57401	SPAN_T1	0	0	0	0	0	0	-1.11	-0.96	1	1	0	600	600	0
7/16/2024 22:32	24902	WHHA_T1	0	1	1	0	0	0	0.42	0.43	0	0	0	0	0	0
7/16/2024 22:32	23203	HIRU_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
7/16/2024 22:33	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/16/2024 22:33	24105	EHAZ_T1	4	4	0	5.65	5.5	-0.15	-1.84	-1.85	1	1	0	1200	1200	0
7/16/2024 22:33	53803	MBRG_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
7/16/2024 22:33	24102	EHAZ_T1	3	3	0	1	1	0	0	0	0	0	0	0	0	0
7/16/2024 22:33	20402	ASHF_T2	6	6	0	0.87	0.8	-0.07	0	0	0	0	0	0	0	0
7/16/2024 22:33	20403	ASHF_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/16/2024 22:33	40101	HUNT_T2	11	0	-11	0.25	0	-0.25	-2.68	-2.82	0	0	0	0	0	0
7/16/2024 22:33	52402	GRPA_T2	11	1	-10	0.75	0	-0.75	0	0	0	0	0	0	0	0
7/16/2024 22:33	52002	LING_T2	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
7/16/2024 22:33	52004	LING_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
7/16/2024 22:33	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 22:33	24101	EHAZ_T1	20	20	0	0.91	0.37	-0.54	0	0	0	0	0	0	0	0
7/16/2024 22:33	52404	GRPA_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
7/16/2024 22:33	52401	GRPA_T2	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
7/16/2024 22:33	56501	ROCK_T2	1	15	14	0.2	0.19	-0.01	-4.47	-4.53	0	0	0	0	0	0
7/16/2024 22:33	23202	HIRU_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
7/16/2024 22:33	52403	GRPA_T2	133	82	-51	1.23	1.22	-0.01	0	0	0	0	0	0	0	0
7/16/2024 22:33	56504	ROCK_T2	4	0	-4	0.83	0	-0.83	0	0	0	0	0	0	0	0
7/16/2024 22:33	48301	ORWI_T1	2	2	0	1.4	1.85	0.45	0.99	0.96	0	0	0	0	0	0
7/16/2024 22:33	20401	ASHF_T2	2	4	2	0.25	0.4	0.15	-0.12	-0.13	1	1	0	600	600	0
7/16/2024 22:33	11104	EGYP_T1	2	2	0	0.5	0.15	-0.35	-0.06	-0.08	0	0	0	0	0	0
7/16/2024 22:33	47104	MARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/16/2024 22:33	47101	MARL_T1	64	65	1	1.38	1.11	-0.27	-0.67	-0.73	1	1	0	600	600	0
7/16/2024 22:34	13503	MCMI_T2	12	30	18	0.12	0.22	0.1	-0.53	-0.56	0	0	0	0	0	0
7/16/2024 22:34	58803	COCO_T1	1	1	0	0.1	0.8	0.7	-0.75	-0.82	1	1	0	600	600	0
7/16/2024 22:34	56801	BENV_T1	5	5	0	0.86	0.48	-0.38	-0.68	-0.69	2	2	0	1200	1200	0
7/16/2024 22:34	51401	LYKE_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
7/16/2024 22:34	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
7/16/2024 22:34	57302	MOAL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/16/2024 22:34	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/16/2024 22:34	57403	SPAN_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
7/16/2024 22:34	21206	ECAR_T2	31	19	-12	1.11	1.66	0.55	0.52	0.43	0	0	0	0	0	0
7/16/2024 22:34	53901	HALI_T2	0	0	0	0	0	0	-0.98	-1.04	0	0	0	0	0	0
7/16/2024 22:34	60502	NMAN_T2	0	0	0	0	0	0	0.46	0.39	0	0	0	0	0	0
7/16/2024 22:34	29402	BELT_T1	1	2	1	8.6	4.8	-3.8	0	0	0	0	0	0	0	0
7/16/2024 22:34	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 22:34	55001	NEWP_T1	2	0	-2	1.8	0	-1.8	0	0	0	0	0	0	0	0
7/16/2024 22:34	57303	MOAL_T2	1	1	0	8.2	7.9	-0.3	0	0	0	0	0	0	0	0
7/16/2024 22:34	57304	MOAL_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
7/16/2024 22:34	47401	PENS_T1	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
7/16/2024 22:34	55002	NEWP_T1	0	1	1	0	0.1	0.1	0.13	0.07	0	0	0	0	0	0
7/16/2024 22:34	53902	HALI_T2	1	1	0	3.8	4	0.2	-0.57	-0.6	0	0	0	0	0	0
7/16/2024 22:34	20601	GRWO_T2	18	0	-18	0.52	0	-0.52	0.21	0.17	0	0	0	0	0	0
7/16/2024 22:34	65001	NEFF_T2	0	0	0	0	0	0	-0.23	-0.3	1	1	0	1200	1200	0
7/16/2024 22:34	57401	SPAN_T1	0	0	0	0	0	0	-1.11	-0.96	1	1	0	600	600	0
7/16/2024 22:35	46203	DANV_T2	6	1	-5	0.47	0	-0.47	-0.96	-0.06	0	0	0	0	0	0
7/16/2024 22:35	56504	ROCK_T2	4	0	-4	0.83	0	-0.83	0.38	0.35	0	0	0	0	0	0
7/16/2024 22:35	61701	ELIZ_T1	1	1	0	4.1	4.2	0.1	2.95	2.19	0	0	0	0	0	0
7/16/2024 22:35	20601	GRWO_T2	18	0	-18	0.52	0	-0.52	0.21	0.17	0	0	0	0	0	0
7/16/2024 22:35	12301	LANA_T2	237	195	-42	2.41	2.76	0.35	0	0	0	0	0	0	0	0
7/16/2024 22:35	20402	ASHF_T2	6	6	0	0.87	0.8	-0.07	0	0	0	0	0	0	0	0
7/16/2024 22:35	40101	HUNT_T2	11	0	-11	0.25	0	-0.25	-1.34	-1.41	0	0	0	0	0	0
7/16/2024 22:35	42701	AUGU_T1	21	18	-3	0.6	0.46	-0.14	0	0	2	2	0	1800	1800	0
7/16/2024 22:35	56501	ROCK_T2	1	15	14	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
7/16/2024 22:35	53902	HALI_T2	1	1	0	3.8	4	0.2	-0.57	-0.6	0	0	0	0	0	0
7/16/2024 22:35	46206	DANV_T2	5	3	-2	0.76	0.9	0.14	1.94	1.87	2	2	0	2100	2100	0
7/16/2024 22:35	20403	ASHF_T2	1	1	0	0.1	0	-0.1	1.01	1.02	0	0	0	0	0	0
7/16/2024 22:35	20401	ASHF_T2	2	4	2	0.25	0.4	0.15	0	0	0	0	0	0	0	0
7/16/2024 22:35	62104	ELAN_T1	4	3	-1	1.9	0	-1.9	0.56	0.53	2	2	0	1500	1500	0
7/16/2024 22:35	58705	ROSE_T2	2	4	2	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/16/2024 22:35	47104	MARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/16/2024 22:35	62105	ELAN_T1	4	4	0	1.13	0.9	-0.23	0	0	0	0	0	0	0	0
7/16/2024 22:35	60803	BUCK_T1	16	16	0	0.74	0.59	-0.15	-0.27	-0.26	1	1	0	600	600	0
7/16/2024 22:35	58702	ROSE_T2	1	1	0	7.8	6.4	-1.4	0	0	0	0	0	0	0	0
7/16/2024 22:35	13202	PALM_T2	0	0	0	0	0	0	-2.04	-2.08	4	4	0	3600	3600	0
7/16/2024 22:35	58803	COCO_T1	1	1	0	0.1	0.8	0.7	-0.75	-0.82	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/16/2024 22:35	56802	BENV_T2	3	3	0	2.1	0.8	-1.3	-0.71	-0.75	0	0	0	0	0	0
7/16/2024 22:35	56801	BENV_T1	5	5	0	0.86	0.48	-0.38	-1.36	-1.39	4	4	0	2400	2400	0
7/16/2024 22:35	58701	ROSE_T2	0	0	0	0	0	0	-1.57	-1.59	1	1	0	600	600	0
7/16/2024 22:35	16302	ALPA_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
7/16/2024 22:35	54505	ENOL_T2	0	0	0	0	0	0	-0.62	-0.63	1	1	0	600	600	0
7/16/2024 22:35	61703	ELIZ_T1	0	0	0	0	0	0	-1.55	-1.59	1	1	0	900	900	0
7/16/2024 22:35	60801	BUCK_T1	28	22	-6	0.24	0.25	0.01	0	0	0	0	0	0	0	0
7/16/2024 22:35	60502	NMAN_T2	0	0	0	0	0	0	0.46	0.39	0	0	0	0	0	0
7/16/2024 22:35	12302	LANA_T2	0	0	0	0	0	0	-1.94	-2	3	3	0	2700	2700	0
7/16/2024 22:35	47101	MARL_T1	64	65	1	1.38	1.11	-0.27	-1.34	-1.46	2	2	0	1200	1200	0
7/16/2024 22:35	58706	ROSE_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
7/16/2024 22:36	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/16/2024 22:36	57403	SPAN_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
7/16/2024 22:36	55002	NEWP_T1	0	1	1	0	0.1	0.1	0.06	0.03	0	0	0	0	0	0
7/16/2024 22:36	60801	BUCK_T1	28	22	-6	0.24	0.25	0.01	0	0	0	0	0	0	0	0
7/16/2024 22:36	46203	DANV_T2	6	1	-5	0.47	0	-0.47	-0.06	-0.1	0	0	0	0	0	0
7/16/2024 22:36	64904	MILL_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
7/16/2024 22:36	52404	GRPA_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
7/16/2024 22:36	62102	ELAN_T1	0	0	0	0	0	0	0.86	0.57	0	0	0	0	0	0
7/16/2024 22:36	55001	NEWP_T1	2	0	-2	1.8	0	-1.8	0	0	0	0	0	0	0	0
7/16/2024 22:36	52402	GRPA_T2	11	1	-10	0.75	0	-0.75	0	0	0	0	0	0	0	0
7/16/2024 22:36	48302	ORWI_T2	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
7/16/2024 22:36	53901	HALI_T1	0	0	0	0	0	0	-0.98	-1.04	0	0	0	0	0	0
7/16/2024 22:36	55408	SHER_T2	1	1	0	1.4	1.9	0.5	-0.94	-0.94	1	1	0	1200	1200	0
7/16/2024 22:36	13503	MCMI_T2	12	30	18	0.12	0.22	0.1	-0.53	-0.56	0	0	0	0	0	0
7/16/2024 22:36	66503	SMAN_T2	1	0	-1	6.8	0	-6.8	0	0	0	0	0	0	0	0
7/16/2024 22:36	62105	ELAN_T1	4	4	0	1.13	0.9	-0.23	0	0	0	0	0	0	0	0
7/16/2024 22:36	57401	SPAN_T1	0	0	0	0	0	0	-2.22	-1.92	2	2	0	1200	1200	0
7/16/2024 22:36	66505	SMAN_T2	0	0	0	0	0	0	-0.03	-0.01	3	3	0	2100	2100	0
7/16/2024 22:36	46206	DANV_T2	5	3	-2	0.76	0.9	0.14	0	0	0	0	0	0	0	0
7/16/2024 22:36	16302	ALPA_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
7/16/2024 22:36	56802	BENV_T2	3	3	0	2.1	0.8	-1.3	-0.71	-0.75	0	0	0	0	0	0
7/16/2024 22:36	60803	BUCK_T1	16	16	0	0.74	0.59	-0.15	-0.26	-0.27	1	1	0	600	600	0
7/16/2024 22:36	61503	EPET_T1	0	0	0	0	0	0	-0.48	-0.53	0	0	0	0	0	0
7/16/2024 22:36	65601	QVIL_T2	0	0	0	0	0	0	0.76	0.72	0	0	0	0	0	0
7/16/2024 22:36	52401	GRPA_T2	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
7/16/2024 22:36	52403	GRPA_T2	133	82	-51	1.23	1.22	-0.01	0	0	0	0	0	0	0	0
7/16/2024 22:36	62104	ELAN_T1	4	3	-1	1.9	0	-1.9	0	0	0	0	0	0	0	0
7/16/2024 22:36	64101	REFR_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
7/16/2024 22:36	53902	HALI_T2	1	1	0	3.8	4	0.2	0	0	0	0	0	0	0	0
7/16/2024 22:36	48301	ORWI_T1	2	2	0	1.4	1.85	0.45	0.99	0.96	0	0	0	0	0	0
7/16/2024 22:36	47401	PENS_T1	0	0	0	0	0	0	0.61	0.56	0	0	0	0	0	0
7/16/2024 22:37	66505	SMAN_T2	0	0	0	0	0	0	-0.03	-0.01	3	3	0	2100	2100	0
7/16/2024 22:37	24105	EHAZ_T1	4	4	0	5.65	5.5	-0.15	0	0	0	0	0	0	0	0
7/16/2024 22:37	23203	HIRU_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
7/16/2024 22:37	58702	ROSE_T2	1	1	0	7.8	6.4	-1.4	0	0	0	0	0	0	0	0
7/16/2024 22:37	29402	BELT_T1	1	2	1	8.6	4.8	-3.8	0	0	0	0	0	0	0	0
7/16/2024 22:37	52402	GRPA_T2	11	1	-10	0.75	0	-0.75	0	0	0	0	0	0	0	0
7/16/2024 22:37	55002	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/16/2024 22:37	11104	EGYP_T1	2	2	0	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
7/16/2024 22:37	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 22:37	54601	SUMM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
7/16/2024 22:37	11504	FREE_T1	16	16	0	1.18	1.24	0.06	-2.39	-2.32	4	4	0	4200	4200	0
7/16/2024 22:37	52404	GRPA_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
7/16/2024 22:37	24101	EHAZ_T1	20	20	0	0.91	0.37	-0.54	0	0	0	0	0	0	0	0
7/16/2024 22:37	46203	DANV_T2	6	1	-5	0.47	0	-0.47	0	0	0	0	0	0	0	0
7/16/2024 22:37	11507	FREE_T2	1	4	3	0.5	0.4	-0.1	0.53	0.29	1	1	0	600	600	0
7/16/2024 22:37	55001	NEWP_T1	2	0	-2	1.8	0	-1.8	-0.7	-0.83	0	0	0	0	0	0
7/16/2024 22:37	66503	SMAN_T2	1	0	-1	6.8	0	-6.8	0	0	0	0	0	0	0	0
7/16/2024 22:37	46206	DANV_T2	5	3	-2	0.76	0.9	0.14	1.87	1.77	2	2	0	2100	2100	0
7/16/2024 22:37	57104	SPHI_T2	0	1	1	0	0	0	-1.17	-1.26	0	0	0	0	0	0
7/16/2024 22:37	11103	EGYP_T1	0	0	0	0	0	0	1.72	1.68	0	0	0	0	0	0
7/16/2024 22:37	52001	LING_T1	0	0	0	0	0	0	-0.31	-0.27	0	0	0	0	0	0
7/16/2024 22:37	50701	SMEC_T1	0	0	0	0	0	0	0.12	-0.01	0	0	0	0	0	0
7/16/2024 22:37	44601	SALE_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
7/16/2024 22:37	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 22:37	56802	BENV_T2	3	3	0	2.1	0.8	-1.3	-0.75	-0.79	0	0	0	0	0	0
7/16/2024 22:37	52403	GRPA_T2	133	82	-51	1.23	1.22	-0.01	0	0	0	0	0	0	0	0
7/16/2024 22:37	61505	EPET_T1	0	0	0	0	0	0	1.2	1.2	0	0	0	0	0	0
7/16/2024 22:37	52401	GRPA_T2	1	1	0	1.3	0	-1.3	-0.67	-0.69	0	0	0	0	0	0
7/16/2024 22:37	24102	EHAZ_T1	3	3	0	1	1	0	-0.02	-0.03	0	0	0	0	0	0
7/16/2024 22:37	24902	WHHA_T1	0	1	1	0	0	0	0.43	0.41	0	0	0	0	0	0
7/16/2024 22:37	57101	SPHI_T2	6	6	0	0.37	0.68	0.31	0	0	0	0	0	0	0	0
7/16/2024 22:37	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.61	-1.01	0	0	0	0	0	0
7/16/2024 22:37	57106	SPHI_T2	3	3	0	0.63	0.87	0.24	0	0	0	0	0	0	0	0
7/16/2024 22:37	14603	SWHI_T1	0	0	0	0	0	0	83.96	83.96	2	2	0	1200	1200	0
7/16/2024 22:37	58705	ROSE_T2	2	4	2	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/16/2024 22:37	53903	HALI_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
7/16/2024 22:37	53902	HALI_T2	1	1	0	3.8	4	0.2	0	0	0	0	0	0	0	0
7/16/2024 22:37	46302	ROHR_T1	2	4	2	0.8	0.85	0.05	0.37	0.35	0	0	0	0	0	0
7/16/2024 22:37	25503	MADI_T1	3	6	3	0.13	0.17	0.04	-0.52	-0.57	0	0	0	0	0	0
7/16/2024 22:37	40101	HUNT_T2	11	0	-11	0.25	0	-0.25	-1.41	-1.46	0	0	0	0	0	0
7/16/2024 22:37	58706	ROSE_T2	1	1	0	1	0.7	-0.3	-0.12	-0.17	1	1	0	600	600	0
7/16/2024 22:37	67602	WARW_T2	0	0	0	0	0	0	0.24	0.25	2	2	0	1500	1500	0
7/16/2024 22:38	24702	FLND_T2	3	0	-3	0.83	0	-0.83	-0.54	-0.59	2	2	0	2400	2400	0
7/16/2024 22:38	20401	ASHF_T2	2	4	2	0.25	0.4	0.15	0	0	0	0	0	0	0	0
7/16/2024 22:38	20403	ASHF_T2	1	1	0	0.1	0	-0.1	1.02	0.93	0	0	0	0	0	0
7/16/2024 22:38	56504	ROCK_T2	4	0	-4	0.83	0	-0.83	0	0	0	0	0	0	0	0
7/16/2024 22:38	20402	ASHF_T2	6	6	0	0.87	0.8	-0.07	0	0	0	0	0	0	0	0
7/16/2024 22:38	47104	MARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/16/2024 22:38	52401	GRPA_T2	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
7/16/2024 22:38	52402	GRPA_T2	11	1	-10	0.75	0	-0.75	0	0	0	0	0	0	0	0
7/16/2024 22:38	67602	WARW_T2	0	0	0	0	0	0	0.24	0.25	2	2	0	1500	1500	0
7/16/2024 22:38	47101	MARL_T1	64	65	1	1.38	1.11	-0.27	-0.73	-0.73	1	1	0	600	600	0
7/16/2024 22:38	52404	GRPA_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
7/16/2024 22:38	47401	PENS_T1	0	0	0	0	0	0	0.61	0.56	0	0	0	0	0	0
7/16/2024 22:38	44301	BEAV_T2	1	0	-1	0.8	0	-0.8	0.24	0.14	1	1	0	600	600	0
7/16/2024 22:38	56501	ROCK_T2	1	15	14	0.2	0.19	-0.01	-2.26	-2.36	0	0	0	0	0	0
7/16/2024 22:38	55001	NEWP_T1	2	0	-2	1.8	0	-1.8	0	0	0	0	0	0	0	0
7/16/2024 22:38	52501	PROG_T1	0	15	15	0	0.13	0.13	-0.72	-0.76	1	1	0	300	300	0
7/16/2024 22:38	64101	REFR_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
7/16/2024 22:38	55002	NEWP_T1	0	1	1	0	0.1	0.1	0.03	0.03	0	0	0	0	0	0
7/16/2024 22:38	55003	NEWP_T2	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
7/16/2024 22:38	52504	PROG_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
7/16/2024 22:38	52403	GRPA_T2	133	82	-51	1.23	1.22	-0.01	0	0	0	0	0	0	0	0
7/16/2024 22:38	13202	PALM_T2	0	0	0	0	0	0	-2.08	-2.32	4	4	0	3600	3600	0
7/16/2024 22:39	26402	INOR_T1	0	0	0	0	0	0	-1.63	-0.99	1	0	-1	600	0	-600
7/16/2024 22:39	26401	INOR_T1	1	1	0	7.3	7.2	-0.1	0	0	0	0	0	0	0	0
7/16/2024 22:57	62105	ELAN_T1	4	2	-2	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/16/2024 22:57	64203	KINZ_T1	0	0	0	0	0	0	0.16	0.07	1	1	0	600	600	0
7/16/2024 22:57	62104	ELAN_T1	3	1	-2	2.27	0	-2.27	0	0	0	0	0	0	0	0
7/16/2024 22:57	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/16/2024 22:57	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 22:57	62102	ELAN_T1	0	9	9	0	0	0	0.57	0.58	0	0	0	0	0	0
7/16/2024 22:57	11104	EGYP_T1	2	0	-2	0.15	0	-0.15	0.76	0.76	0	0	0	0	0	0
7/16/2024 22:57	64204	KINZ_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
7/16/2024 22:58	46001	BERW_T1	0	0	0	0	0	0	1.23	1.15	0	0	0	0	0	0
7/16/2024 22:58	49804	UNIV_T1	1	3	2	0.4	0.13	-0.27	0	0	0	0	0	0	0	0
7/16/2024 22:58	49803	UNIV_T1	0	0	0	0	0	0	-3.67	-3.77	0	0	0	0	0	0
7/16/2024 22:58	67804	WLAN_T1	1	9	8	0.1	0.19	0.09	0	0	0	0	0	0	0	0
7/16/2024 22:58	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 22:58	67203	TEHI_T1	0	0	0	0	0	0	2.86	2.82	2	2	0	1500	1500	0
7/16/2024 22:58	66504	SMAN_T2	0	0	0	0	0	0	-1.01	1.3	0	0	0	0	0	0
7/16/2024 22:58	43202	MVIL_T2	3	2	-1	1.2	0.9	-0.3	-1.04	-1.04	0	0	0	0	0	0
7/16/2024 22:58	42903	MIDD_T2	0	0	0	0	0	0	-0.96	-1.01	1	1	0	1200	1200	0
7/16/2024 22:58	55002	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/16/2024 22:58	54701	NEBL_T1	1	1	0	1	1	0	0	0	1	1	0	600	600	0
7/16/2024 22:58	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 22:58	61505	EPET_T1	0	0	0	0	0	0	1.2	1.19	0	0	0	0	0	0
7/16/2024 22:58	48303	ORWI_T2	0	0	0	0	0	0	0.7	0.71	0	0	0	0	0	0
7/16/2024 22:58	13503	MCMI_T2	24	33	9	0.16	0.23	0.07	-0.58	-0.61	0	0	0	0	0	0
7/16/2024 22:58	41901	REED_T1	8	7	-1	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
7/16/2024 22:58	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/16/2024 22:58	53903	HALI_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
7/16/2024 22:58	65901	SAXR_T2	1	1	0	7.2	7.6	0.4	-0.86	-0.93	2	2	0	1500	1500	0
7/16/2024 22:58	43402	BENT_T1	0	0	0	0	0	0	-0.76	-0.77	1	1	0	900	900	0
7/16/2024 22:58	46803	HEPB_T2	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
7/16/2024 22:58	48301	ORWI_T1	2	2	0	1.6	2	0.4	0.91	0.87	0	0	0	0	0	0
7/16/2024 22:58	53902	HALI_T2	1	1	0	4	4	0	0	0	0	0	0	0	0	0
7/16/2024 22:58	52403	GRPA_T2	82	76	-6	1.45	1.13	-0.32	0	0	0	0	0	0	0	0
7/16/2024 22:58	60701	BREC_T1	0	0	0	0	0	0	-0.85	-0.85	2	2	0	1200	1200	0
7/16/2024 22:58	46203	DANV_T2	1	0	-1	0.1	0	-0.1	-0.1	-0.19	0	0	0	0	0	0
7/16/2024 22:58	41902	REED_T1	0	0	0	0	0	0	0.48	0.55	1	1	0	900	900	0
7/16/2024 22:58	25601	ARRO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/16/2024 22:58	67801	WLAN_T1	0	4	4	0	0.1	0.1	0.31	0.29	0	0	0	0	0	0
7/16/2024 22:58	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/16/2024 22:58	44801	EDAN_T2	1	0	-1	0.1	0	-0.1	-1.26	-1.31	0	0	0	0	0	0
7/16/2024 22:58	41301	FISH_T1	3	3	0	0.8	1	0.2	0	0	0	0	0	0	0	0
7/16/2024 22:58	64203	KINZ_T1	0	0	0	0	0	0	0.16	0.07	1	1	0	600	600	0
7/16/2024 22:58	64904	MILL_T1	0	1	1	0	0	0	0.4	0.3	0	0	0	0	0	0
7/16/2024 22:58	16603	PONO_T2	0	0	0	0	0	0	1.9	1.71	1	1	0	1200	1200	0
7/16/2024 22:58	67201	TEHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/16/2024 22:58	46206	DANV_T2	3	5	2	0.6	0.9	0.3	0	0	0	0	0	0	0	0
7/16/2024 22:58	55001	NEWP_T1	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
7/16/2024 22:58	43401	BENT_T1	0	2	2	0	8.05	8.05	0	0	0	0	0	0	0	0
7/16/2024 22:58	11104	EGYP_T1	2	0	-2	0.15	0	-0.15	0.76	0.76	0	0	0	0	0	0
7/16/2024 22:58	52402	GRPA_T2	0	2	2	0	0	0	-0.53	-0.52	0	0	0	0	0	0
7/16/2024 22:58	61301	EARL_T1	0	0	0	0	0	0	-0.61	-0.61	1	1	0	900	900	0
7/16/2024 22:58	42901	MIDD_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
7/16/2024 22:58	61102	BERK_T5	0	0	0	0	0	0	0.01	-0.07	0	0	0	0	0	0
7/16/2024 22:58	61304	EARL_T1	0	0	0	0	0	0	-0.19	-0.2	1	1	0	600	600	0
7/16/2024 22:58	40101	HUNT_T2	0	0	0	0	0	0	-1.46	-1.17	0	0	0	0	0	0
7/16/2024 22:58	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/16/2024 22:58	46302	ROHR_T1	2	5	3	0.75	0.83	0.08	0.7	0.68	0	0	0	0	0	0
7/16/2024 22:58	61303	EARL_T1	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
7/16/2024 22:58	67605	WARW_T1	3	3	0	1.2	0.53	-0.67	-1.9	-1.73	0	0	0	0	0	0
7/16/2024 22:58	11804	FRAN_T1	45	18	-27	0.5	0.33	-0.17	0.47	0.51	0	0	0	0	0	0
7/16/2024 22:58	25603	ARRO_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
7/16/2024 22:58	46801	HEPB_T2	2	2	0	0.3	0.4	0.1	0.07	0.05	0	0	0	0	0	0
7/16/2024 22:58	64204	KINZ_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
7/16/2024 22:58	25602	ARRO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/16/2024 22:59	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
7/16/2024 22:59	66703	STRA_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
7/16/2024 22:59	16301	ALPA_T1	0	1	1	0	0.1	0.1	0.28	0.24	0	0	0	0	0	0
7/16/2024 22:59	56801	BENV_T1	5	3	-2	0.48	0.2	-0.28	-3.92	-1.08	10	5	-5	6000	3000	-3000
7/16/2024 22:59	43301	WATS_T2	0	0	0	0	0	0	-0.22	-0.24	1	1	0	900	900	0
7/16/2024 22:59	58803	COCO_T1	1	1	0	0.3	1.2	0.9	-0.86	-0.96	1	1	0	600	600	0
7/16/2024 22:59	41901	REED_T1	8	7	-1	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
7/16/2024 22:59	13105	NHAM_T2	14	10	-4	0.54	0.2	-0.34	-0.83	-0.81	1	1	0	1200	1200	0
7/16/2024 22:59	23203	HIRU_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
7/16/2024 22:59	56803	BENV_T1	0	0	0	0	0	0	0.1	0.21	2	2	0	1200	1200	0
7/16/2024 22:59	54504	ENOL_T2	0	0	0	0	0	0	-1.18	-1.21	1	1	0	600	600	0
7/16/2024 22:59	24902	WHHA_T1	1	2	1	1.4	0	-1.4	0.41	0.38	0	0	0	0	0	0
7/16/2024 22:59	57304	MOAL_T2	0	0	0	0	0	0	-0.07	-0.12	0	0	0	0	0	0
7/16/2024 22:59	42701	AUGU_T1	18	11	-7	0.55	0.58	0.03	0	0	4	4	0	3600	3600	0
7/16/2024 22:59	46203	DANV_T2	1	0	-1	0.1	0	-0.1	-0.41	-0.76	0	0	0	0	0	0
7/16/2024 22:59	27603	PIRI_T2	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
7/16/2024 22:59	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/16/2024 22:59	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 22:59	15001	BLMO_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/16/2024 22:59	64204	KINZ_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
7/16/2024 22:59	14601	SWHI_T1	0	0	0	0	0	0	-1.93	-2.01	0	0	0	0	0	0
7/16/2024 22:59	14401	SSLA_T1	0	0	0	0	0	0	-1.11	-1.15	2	2	0	1800	1800	0
7/16/2024 22:59	61701	ELIZ_T1	1	1	0	4.2	4.4	0.2	0	0	0	0	0	0	0	0
7/16/2024 22:59	40101	HUNT_T2	0	0	0	0	0	0	-2.92	-2.34	0	0	0	0	0	0
7/16/2024 22:59	67602	WARW_T2	0	0	0	0	0	0	0.99	0.92	8	8	0	6000	6000	0
7/16/2024 22:59	14404	SSLA_T1	2	2	0	1.9	1.85	-0.05	0	0	0	0	0	0	0	0
7/16/2024 22:59	67603	WARW_T1	0	0	0	0	0	0	0.65	0.56	0	0	0	0	0	0
7/16/2024 22:59	40602	PIGR_T1	0	0	0	0	0	0	-1.01	-1.11	1	1	0	600	600	0
7/16/2024 22:59	65802	RTWN_T2	0	0	0	0	0	0	-0.76	0.51	0	0	0	0	0	0
7/16/2024 22:59	57301	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 22:59	41301	FISH_T1	3	3	0	0.8	1	0.2	-0.37	-0.4	0	0	0	0	0	0
7/16/2024 22:59	27605	PIRI_T2	105	72	-33	0.71	0.69	-0.02	1.1	1.01	0	0	0	0	0	0
7/16/2024 22:59	67605	WARW_T1	3	3	0	1.2	0.53	-0.67	-0.95	-0.87	0	0	0	0	0	0
7/16/2024 22:59	64101	REFR_T1	0	0	0	0	0	0	0.74	0.66	0	0	0	0	0	0
7/16/2024 22:59	53902	HALI_T2	1	1	0	4	4	0	-0.54	-0.6	0	0	0	0	0	0
7/16/2024 22:59	58203	NEWV_T2	1	1	0	4.2	4.3	0.1	-0.94	-0.93	0	0	0	0	0	0
7/16/2024 22:59	60502	NMAN_T2	0	0	0	0	0	0	0.84	0.64	0	0	0	0	0	0
7/16/2024 22:59	46206	DANV_T2	3	5	2	0.6	0.9	0.3	0	0	0	0	0	0	0	0
7/16/2024 22:59	53901	HALI_T2	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
7/16/2024 22:59	16302	ALPA_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
7/16/2024 22:59	64302	LINC_T2	0	0	0	0	0	0	1.36	1.41	0	0	0	0	0	0
7/16/2024 22:59	11504	FREE_T1	16	16	0	1.52	1.54	0.02	-1.16	-2.55	2	2	0	2100	2100	0
7/16/2024 22:59	14403	SSLA_T1	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
7/16/2024 22:59	61703	ELIZ_T1	0	0	0	0	0	0	-4.66	-3.02	3	3	0	2700	2700	0
7/16/2024 22:59	46001	BERW_T1	0	0	0	0	0	0	1.23	1.15	0	0	0	0	0	0
7/16/2024 22:59	57303	MOAL_T2	1	1	0	8.2	7.7	-0.5	0	0	0	0	0	0	0	0
7/16/2024 22:59	67503	WEWI_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
7/16/2024 22:59	64203	KINZ_T1	0	0	0	0	0	0	0.16	0.07	1	1	0	600	600	0
7/16/2024 22:59	41902	REED_T1	0	0	0	0	0	0	0.48	0.55	1	1	0	900	900	0
7/16/2024 22:59	43304	WATS_T2	7	8	1	0.23	0	-0.23	-0.53	-0.49	0	0	0	0	0	0
7/16/2024 22:59	67201	TEHI_T1	0	1	1	0	0.2	0.2	-0.16	-0.15	0	0	0	0	0	0
7/16/2024 22:59	56501	ROCK_T2	15	3	-12	0.19	0.23	0.04	-2.36	-2.41	0	0	0	0	0	0
7/16/2024 22:59	47101	MARI_T1	60	58	-2	1.34	1.02	-0.32	-2.94	-3.17	4	4	0	2400	2400	0
7/16/2024 22:59	53501	EVIL_T2	1	1	0	1	1.3	0.3	-0.93	-0.93	2	2	0	1200	1200	0
7/16/2024 22:59	66504	SMAN_T2	0	0	0	0	0	0	-0.5	0.65	0	0	0	0	0	0
7/16/2024 22:59	42201	SHEN_T2	0	0	0	0	0	0	0.24	0.26	2	2	0	1200	1200	0
7/16/2024 23:00	64302	LINC_T2	0	0	0	0	0	0	1.36	1.41	0	0	0	0	0	0
7/16/2024 23:00	52401	GRPA_T2	1	1	0	0.5	0	-0.5	-0.69	-0.1	0	0	0	0	0	0
7/16/2024 23:00	54504	ENOL_T2	0	0	0	0	0	0	-1.18	-1.21	1	1	0	600	600	0
7/16/2024 23:00	22905	HARW_T1	27	39	12	0.84	0.41	-0.43	0	0	0	0	0	0	0	0
7/16/2024 23:00	22901	HARW_T1	13	34	21	0.49	0.34	-0.15	-0.02	-0.01	1	1	0	1200	1200	0
7/16/2024 23:00	60801	BUCK_T1	21	0	-21	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/16/2024 23:00	46206	DANV_T2	1	5	4	0.9	1	0.1	0	0	0	0	0	0	0	0
7/16/2024 23:00	46302	ROHR_T1	4	2	-2	0.83	0.9	0.07	0	0	0	0	0	0	0	0
7/16/2024 23:00	15601	NSTR_T2	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
7/16/2024 23:00	67605	WARW_T1	3	3	0	0.5	0.57	0.07	-2.85	-2.6	0	0	0	0	0	0
7/16/2024 23:00	58402	MORO_T1	0	0	0	0	0	0	-0.45	-0.48	3	3	0	2400	2400	0
7/16/2024 23:00	29402	BELT_T1	2	1	-1	4.8	9.4	4.6	0	0	0	0	0	0	0	0
7/16/2024 23:00	26401	INOR_T1	1	1	0	6.9	7.7	0.8	0.9	0.87	0	0	0	0	0	0
7/16/2024 23:00	43301	WATS_T2	0	0	0	0	0	0	-0.89	-0.97	4	4	0	3600	3600	0
7/16/2024 23:00	22903	HARW_T1	7	18	11	0.46	0.51	0.05	0	0	0	0	0	0	0	0
7/16/2024 23:00	40601	PIGR_T1	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
7/16/2024 23:00	20402	ASHF_T2	6	6	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
7/16/2024 23:00	67602	WARW_T2	0	0	0	0	0	0	0.5	0.46	4	4	0	3000	3000	0
7/16/2024 23:00	44801	EDAN_T2	0	0	0	0	0	0	-1.26	-1.31	0	0	0	0	0	0
7/16/2024 23:00	52402	GRPA_T2	1	1	0	0.3	0	-0.3	-0.53	-0.52	0	0	0	0	0	0
7/16/2024 23:00	20401	ASHF_T2	4	2	-2	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
7/16/2024 23:00	57401	SPAN_T1	1	0	-1	5.6	0	-5.6	-1.03	-0.97	1	1	0	600	600	0
7/16/2024 23:00	15602	NSTR_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
7/16/2024 23:00	60701	BREC_T1	0	0	0	0	0	0	-0.85	-0.85	2	2	0	1200	1200	0
7/16/2024 23:00	47101	MARI_T1	54	40	-14	1.13	0.87	-0.26	-2.94	-3.17	4	4	0	2400	2400	0
7/16/2024 23:00	46001	BERW_T1	0	0	0	0	0	0	2.47	2.29	0	0	0	0	0	0
7/16/2024 23:00	47401	PENS_T1	0	0	0	0	0	0	0.56	0.48	0	0	0	0	0	0
7/16/2024 23:00	20403	ASHF_T2	0	0	0	0	0	0	1.86	1.58	0	0	0	0	0	0
7/16/2024 23:00	46203	DANV_T2	0	0	0	0	0	0	-0.1	-0.19	0	0	0	0	0	0
7/16/2024 23:00	52403	GRPA_T2	73	76	3	1.22	0.58	-0.64	0	0	0	0	0	0	0	0
7/16/2024 23:00	58001	WCAR_T1	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
7/16/2024 23:00	64101	REFR_T1	0	0	0	0	0	0	0.37	0.33	0	0	0	0	0	0
7/16/2024 23:00	55002	NEWP_T1	1	1	0	0.1	0.1	0	0.03	0.01	0	0	0	0	0	0
7/16/2024 23:00	41902	REED_T1	0	0	0	0	0	0	0.48	0.55	1	1	0	900	900	0
7/16/2024 23:00	40101	HUNT_T2	0	0	0	0	0	0	-1.46	-1.17	0	0	0	0	0	0
7/16/2024 23:00	61301	EARL_T1	0	0	0	0	0	0	-0.61	-0.61	1	1	0	900	900	0
7/16/2024 23:00	59101	WALK_T2	0	0	0	0	0	0	0.14	0.08	0	0	0	0	0	0
7/16/2024 23:00	45802	HEGI_T2	0	13	13	0	0.48	0.48	0.15	0.02	1	2	1	900	1200	300
7/16/2024 23:00	12701	MACU_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	1200	1200	0
7/16/2024 23:00	58003	WCAR_T1	1	1	0	1	1.1	0.1	0.36	0.34	1	1	0	600	600	0
7/16/2024 23:00	43304	WATS_T2	4	5	1	0.38	0	-0.38	-0.18	-0.16	0	0	0	0	0	0
7/16/2024 23:00	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/16/2024 23:00	46301	ROHR_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
7/16/2024 23:00	61303	EARL_T1	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
7/16/2024 23:00	60803	BUCK_T1	16	14	-2	0.59	0.26	-0.33	-0.27	-0.28	1	1	0	600	600	0
7/16/2024 23:00	56801	BENV_T1	2	2	0	0.2	0.2	0	-1.57	-0.43	4	2	-2	2400	1200	-1200
7/16/2024 23:00	41901	REED_T1	5	8	3	0.24	0.33	0.09	0	0	0	0	0	0	0	0
7/16/2024 23:00	44301	BEAV_T2	0	0	0	0	0	0	0.14	0.09	1	1	0	600	600	0
7/16/2024 23:01	55408	SHER_T2	1	1	0	1.9	2.3	0.4	-0.94	-0.94	1	1	0	1200	1200	0
7/16/2024 23:01	20601	GRWO_T2	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
7/16/2024 23:01	14404	SSLA_T1	2	2	0	1.85	1.7	-0.15	0	0	0	0	0	0	0	0
7/16/2024 23:01	43304	WATS_T2	4	5	1	0.38	0	-0.38	-0.18	-0.16	0	0	0	0	0	0
7/16/2024 23:01	45302	WBER_T2	0	1	1	0	0	0	1.43	1.33	0	0	0	0	0	0
7/16/2024 23:01	64204	KINZ_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
7/16/2024 23:01	20403	ASHF_T2	0	0	0	0	0	0	0.93	0.79	0	0	0	0	0	0
7/16/2024 23:01	53903	HALI_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
7/16/2024 23:01	53802	MBRG_T2	0	0	0	0	0	0	1.26	1.1	0	0	0	0	0	0
7/16/2024 23:01	51004	NHAR_T1	6	2	-4	1.35	7	5.65	-1.1	-1.1	0	0	0	0	0	0
7/16/2024 23:01	41902	REED_T1	0	0	0	0	0	0	0.48	0.55	1	1	0	900	900	0
7/16/2024 23:01	14403	SSLA_T1	3	3	0	0.37	0.5	0.13	1.3	1.24	0	0	0	0	0	0
7/16/2024 23:01	53901	HALI_T2	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
7/16/2024 23:01	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/16/2024 23:01	53902	HALI_T2	1	1	0	4	4	0	0	0	0	0	0	0	0	0
7/16/2024 23:01	45802	HEGI_T2	0	13	13	0	0.48	0.48	0.15	0.02	1	2	1	900	1200	300
7/16/2024 23:01	64202	KINZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/16/2024 23:01	20402	ASHF_T2	6	6	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
7/16/2024 23:01	14601	SWHI_T1	0	0	0	0	0	0	-1.93	-2.01	0	0	0	0	0	0
7/16/2024 23:01	54504	ENOL_T2	0	0	0	0	0	0	-1.18	-1.21	1	1	0	600	600	0
7/16/2024 23:01	55002	NEWP_T1	1	1	0	0.1	0.1	0	0.03	0.01	0	0	0	0	0	0
7/16/2024 23:01	40901	JESH_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/16/2024 23:01	20603	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/16/2024 23:01	64203	KINZ_T1	0	0	0	0	0	0	-0.82	-0.86	3	3	0	1500	1500	0
7/16/2024 23:01	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
7/16/2024 23:01	47401	PENS_T1	0	0	0	0	0	0	0.56	0.48	0	0	0	0	0	0
7/16/2024 23:01	46001	BERW_T1	0	0	0	0	0	0	2.47	2.29	0	0	0	0	0	0
7/16/2024 23:01	44301	BEAV_T2	0	0	0	0	0	0	0.27	0.18	2	2	0	1200	1200	0
7/16/2024 23:01	40902	JESH_T1	0	0	0	0	0	0	-1.32	-1.33	2	2	0	1200	1200	0
7/16/2024 23:01	51003	NHAR_T1	6	10	4	1.1	0.97	-0.13	0	0	0	0	0	0	0	0
7/16/2024 23:01	41901	REED_T1	5	8	3	0.24	0.33	0.09	0	0	0	0	0	0	0	0
7/16/2024 23:01	57702	PAXT_T1	0	0	0	0	0	0	-0.49	-0.47	0	0	0	0	0	0
7/16/2024 23:01	20401	ASHF_T2	4	2	-2	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
7/16/2024 23:01	12701	MACU_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	1200	1200	0
7/16/2024 23:02	57401	SPAN_T1	1	0	-1	5.6	0	-5.6	-1.03	-0.97	1	1	0	600	600	0
7/16/2024 23:02	44601	SALE_T2	0	0	0	0	0	0	0.23	0.17	0	0	0	0	0	0
7/16/2024 23:02	46206	DANV_T2	1	5	4	0.9	1	0.1	0	0	0	0	0	0	0	0
7/16/2024 23:02	46203	DANV_T2	0	0	0	0	0	0	-0.21	-0.38	0	0	0	0	0	0
7/16/2024 23:02	40603	PIGR_T1	0	0	0	0	0	0	-0.54	-0.09	0	0	0	0	0	0
7/16/2024 23:02	66504	SMAN_T2	0	1	1	0	0	0	-0.5	0.65	0	0	0	0	0	0
7/16/2024 23:02	53902	HALI_T2	1	1	0	4	4	0	0	0	0	0	0	0	0	0
7/16/2024 23:02	64202	KINZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/16/2024 23:02	64101	REFR_T1	0	0	0	0	0	0	0.37	0.33	0	0	0	0	0	0
7/16/2024 23:02	53901	HALI_T2	0	0	0	0	0	0	-2.04	-2.08	0	0	0	0	0	0
7/16/2024 23:02	43304	WATS_T2	4	5	1	0.38	0	-0.38	-0.18	-0.16	0	0	0	0	0	0
7/16/2024 23:02	61102	BERK_T5	0	0	0	0	0	0	0.01	-0.07	0	0	0	0	0	0
7/16/2024 23:02	16006	DORN_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/16/2024 23:02	64204	KINZ_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
7/16/2024 23:02	64201	KINZ_T1	0	0	0	0	0	0	-2.47	-2.58	9	9	0	4500	4500	0
7/16/2024 23:02	40902	JESH_T1	0	0	0	0	0	0	-1.32	-1.33	2	2	0	1200	1200	0
7/16/2024 23:02	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/16/2024 23:02	40901	JESH_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/16/2024 23:02	56501	ROCK_T2	3	5	2	0.23	0.24	0.01	-2.36	-2.41	0	0	0	0	0	0
7/16/2024 23:02	47101	MARL_T1	54	40	-14	1.13	0.87	-0.26	-0.73	-0.79	1	1	0	600	600	0
7/16/2024 23:02	44801	EDAN_T2	0	0	0	0	0	0	-2.52	-2.61	0	0	0	0	0	0
7/16/2024 23:02	64203	KINZ_T1	0	0	0	0	0	0	0.16	0.07	1	1	0	600	600	0
7/16/2024 23:02	55101	WERT_T1	0	0	0	0	0	0	-4.8	-4.84	8	8	0	6600	6600	0
7/16/2024 23:02	16002	DORN_T2	0	0	0	0	0	0	0.06	0	1	1	0	1200	1200	0
7/16/2024 23:02	61303	EARL_T1	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
7/16/2024 23:02	15001	BLMO_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/16/2024 23:03	57401	SPAN_T1	1	0	-1	5.6	0	-5.6	-1.03	-0.97	1	1	0	600	600	0
7/16/2024 23:03	56801	BENV_T1	2	2	0	0.2	0.2	0	-0.78	-0.22	2	1	-1	1200	600	-600
7/16/2024 23:03	55101	WERT_T1	0	0	0	0	0	0	-4.8	-4.84	8	8	0	6600	6600	0
7/16/2024 23:03	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
7/16/2024 23:03	48301	ORWI_T1	2	2	0	1.85	2.1	0.25	0.91	0.87	0	0	0	0	0	0
7/16/2024 23:03	67605	WARW_T1	3	3	0	0.5	0.57	0.07	-0.95	-0.87	0	0	0	0	0	0
7/16/2024 23:03	43304	WATS_T2	4	5	1	0.38	0	-0.38	-0.18	-0.16	0	0	0	0	0	0
7/16/2024 23:03	15001	BLMO_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/16/2024 23:03	47101	MARL_T1	54	40	-14	1.13	0.87	-0.26	-0.73	-0.79	1	1	0	600	600	0
7/16/2024 23:03	65901	SAKR_T2	1	1	0	7.3	7.8	0.5	0	0	0	0	0	0	0	0
7/16/2024 23:03	65902	SAKR_T2	0	0	0	0	0	0	-1.34	-1.34	2	2	0	1200	1200	0
7/16/2024 23:03	61304	EARL_T1	0	0	0	0	0	0	-0.19	-0.2	1	1	0	600	600	0
7/16/2024 23:03	56504	ROCK_T2	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
7/16/2024 23:03	56501	ROCK_T2	3	5	2	0.23	0.24	0.01	0	0	0	0	0	0	0	0
7/16/2024 23:03	44703	MUNC_T2	0	0	0	0	0	0	0.98	0.9	0	0	0	0	0	0
7/16/2024 23:04	58003	WCAR_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/16/2024 23:04	58001	WCAR_T1	0	4	4	0	0.23	0.23	0.24	0.23	0	0	0	0	0	0
7/16/2024 23:04	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
7/16/2024 23:04	67602	WARW_T2	0	0	0	0	0	0	0.25	0.23	2	2	0	1500	1500	0
7/16/2024 23:04	56801	BENV_T1	2	2	0	0.2	0.2	0	-0.78	-0.22	2	1	-1	1200	600	-600
7/16/2024 23:04	67605	WARW_T1	3	3	0	0.5	0.57	0.07	-1.9	-1.73	0	0	0	0	0	0
7/16/2024 23:05	67605	WARW_T1	3	3	0	0.5	0.57	0.07	-0.95	-0.87	0	0	0	0	0	0
7/16/2024 23:06	67605	WARW_T1	3	3	0	0.5	0.57	0.07	-1.9	-1.73	0	0	0	0	0	0
7/16/2024 23:07	67605	WARW_T1	3	3	0	0.5	0.57	0.07	-1.73	-1.75	0	0	0	0	0	0
7/16/2024 23:08	67605	WARW_T1	3	3	0	0.5	0.57	0.07	-0.87	-0.88	0	0	0	0	0	0
7/16/2024 23:08	21205	ECAR_T1	7	0	-7	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/16/2024 23:08	55001	NEWP_T1	0	0	0	0	0	0	-0.44	-0.39	0	0	0	0	0	0
7/16/2024 23:08	21203	ECAR_T1	1	0	-1	0.1	0	-0.1	-0.17	-0.2	0	0	0	0	0	0
7/16/2024 23:08	55002	NEWP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/16/2024 23:09	67605	WARW_T1	3	3	0	0.5	0.57	0.07	-1.73	-1.75	0	0	0	0	0	0
7/16/2024 23:09	55101	WERT_T1	0	0	0	0	0	0	-2.42	-2.44	4	4	0	3300	3300	0
7/16/2024 23:10	67605	WARW_T1	3	3	0	0.5	0.57	0.07	-1.73	-1.75	0	0	0	0	0	0
7/16/2024 23:11	61102	BERK_T5	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
7/16/2024 23:11	67605	WARW_T1	3	3	0	0.5	0.57	0.07	-0.87	-0.88	0	0	0	0	0	0
7/16/2024 23:12	61102	BERK_T5	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
7/16/2024 23:12	67605	WARW_T1	0	0	0	0	0	0	-0.87	-0.88	0	0	0	0	0	0
7/16/2024 23:13	55101	WERT_T1	0	0	0	0	0	0	-2.42	-2.44	4	4	0	3300	3300	0
7/16/2024 23:14	64201	KINZ_T1	0	0	0	0	0	0	-0.86	-0.89	3	3	0	1500	1500	0
7/16/2024 23:14	64204	KINZ_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
7/16/2024 23:14	64202	KINZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/16/2024 23:15	61102	BERK_T5	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
7/16/2024 23:20	64203	KINZ_T1	0	0	0	0	0	0	0.07	0.1	1	1	0	600	600	0
7/16/2024 23:20	64202	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/16/2024 23:20	64204	KINZ_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
7/16/2024 23:21	64204	KINZ_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
7/16/2024 23:21	16603	PONO_T2	0	0	0	0	0	0	1.71	1.72	1	1	0	1200	1200	0
7/16/2024 23:21	64202	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/16/2024 23:21	64203	KINZ_T1	0	0	0	0	0	0	0.07	0.1	1	1	0	600	600	0
7/16/2024 23:34	57401	SPAN_T1	0	0	0	0	0	0	-1.06	-0.55	1	1	0	600	600	0
7/16/2024 23:36	46101	MACI_T2	0	0	0	0	0	0	-0.46	-0.49	1	1	0	1200	1200	0
7/16/2024 23:36	20603	GRWO_T2	1	0	-1	0.1	0	-0.1	-0.28	-0.29	1	1	0	900	900	0
7/16/2024 23:38	16603	PONO_T2	0	0	0	0	0	0	1.62	1.63	1	1	0	1200	1200	0
7/16/2024 23:40	61503	EPET_T1	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
7/16/2024 23:55	64101	REFR_T1	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
7/17/2024 0:03	65503	MOJO_T2	0	0	0	0	0	0	-0.52	-0.55	1	1	0	900	900	0
7/17/2024 0:34	53903	HALI_T2	0	2	2	0	0.15	0.15	-0.03	-0.05	0	0	0	0	0	0
7/17/2024 0:34	53902	HALI_T2	1	1	0	4.4	4.3	-0.1	0	0	0	0	0	0	0	0
7/17/2024 1:07	43202	MVIL_T2	1	1	0	2.9	2.7	-0.2	-0.61	-0.62	0	0	0	0	0	0
7/17/2024 1:38	47002	HUGH_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/17/2024 1:38	47001	HUGH_T2	3	3	0	8.43	8.4	-0.03	-1.4	-1.41	1	1	0	900	900	0
7/17/2024 1:48	12701	MACU_T1	0	0	0	0	0	0	-2.16	-1.85	2	2	0	2400	2400	0
7/17/2024 2:41	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/17/2024 2:41	47001	HUGH_T2	7	6	-1	3.91	4.5	0.59	-1.44	-1.49	1	1	0	900	900	0
7/17/2024 2:41	47002	HUGH_T2	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0	0
7/17/2024 2:43	47002	HUGH_T2	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0	0
7/17/2024 2:43	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/17/2024 2:43	47001	HUGH_T2	7	6	-1	3.91	4.5	0.59	-1.44	-1.49	1	1	0	900	900	0
7/17/2024 2:44	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/17/2024 2:47	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/17/2024 2:56	22602	WMB_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
7/17/2024 3:19	57404	SPAN_T2	0	0	0	0	0	0	-0.84	-0.83	1	1	0	1200	1200	0
7/17/2024 3:25	65901	SAKR_T2	1	1	0	8.3	8.7	0.4	-1.26	-1.27	2	2	0	1500	1500	0
7/17/2024 6:45	22903	HARW_T1	9	9	0	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
7/17/2024 6:45	22904	HARW_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
7/17/2024 6:45	22905	HARW_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/17/2024 7:19	58401	MORO_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
7/17/2024 7:19	58402	MORO_T1	4	2	-2	0.3	0	-0.3	-0.65	-0.71	3	3	0	2400	2400	0
7/17/2024 7:33	63305	GREE_T1	0	0	0	0	0	0	-1.64	-1.57	1	1	0	900	900	0
7/17/2024 7:35	65603	QVIL_T2	0	0	0	0	0	0	0.83	0.87	0	0	0	0	0	0
7/17/2024 7:37	47401	PENS_T1	1	3	2	0.6	0.67	0.07	0.38	0.37	0	0	0	0	0	0
7/17/2024 7:39	60201	ATGL_T2	53	123	70	0.39	0.47	0.08	0.6	0.56	0	0	0	0	0	0
7/17/2024 7:39	61103	BERK_T5	0	0	0	0	0	0	-0.39	-0.3	0	0	0	0	0	0
7/17/2024 7:42	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
7/17/2024 7:47	64904	MILL_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
7/17/2024 7:51	47401	PENS_T1	3	3	0	0.67	1.6	0.93	0.37	0.49	0	0	0	0	0	0
7/17/2024 7:51	47403	PENS_T1	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
7/17/2024 7:52	55101	WERT_T1	1	7	6	0.3	0	-0.3	-1.53	-1.46	4	4	0	3300	3300	0
7/17/2024 7:52	47401	PENS_T1	3	3	0	0.67	1.6	0.93	0.74	0.97	0	0	0	0	0	0
7/17/2024 7:52	47403	PENS_T1	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
7/17/2024 7:53	55101	WERT_T1	1	7	6	0.3	0	-0.3	-1.53	-1.46	4	4	0	3300	3300	0
7/17/2024 7:54	46204	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 7:54	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 7:54	46206	DANV_T2	72	88	16	0.9	0.76	-0.14	1.97	1.94	2	2	0	2100	2100	0
7/17/2024 7:54	24902	WHHA_T1	1	1	0	0.3	0.2	-0.1	0.9	0.9	0	0	0	0	0	0
7/17/2024 7:55	67803	WLAN_T1	0	0	0	0	0	0	-1.17	-1.18	0	0	0	0	0	0
7/17/2024 7:55	55101	WERT_T1	1	7	6	0.3	0	-0.3	-1.53	-1.46	4	4	0	3300	3300	0
7/17/2024 7:55	24902	WHHA_T1	1	1	0	0.3	0.2	-0.1	0.9	0.9	0	0	0	0	0	0
7/17/2024 7:55	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 7:56	46204	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 7:56	46206	DANV_T2	72	88	16	0.9	0.76	-0.14	1.97	1.94	2	2	0	2100	2100	0
7/17/2024 7:57	55101	WERT_T1	1	7	6	0.3	0	-0.3	-1.53	-1.46	4	4	0	3300	3300	0
7/17/2024 7:57	11101	EGYP_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/17/2024 7:57	11102	EGYP_T1	0	0	0	0	0	0	-0.23	-0.19	0	0	0	0	0	0
7/17/2024 8:00	11101	EGYP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 8:00	11102	EGYP_T1	0	1	1	0	0	0	-0.23	-0.19	0	0	0	0	0	0
7/17/2024 8:04	46206	DANV_T2	88	71	-17	0.99	0.75	-0.24	1.97	1.94	2	2	0	2100	2100	0
7/17/2024 8:04	46204	DANV_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/17/2024 8:10	14205	EALL_T2	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
7/17/2024 8:10	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 8:11	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 8:11	43304	WATS_T2	0	1	1	0	0	0	-0.05	-0.04	0	0	0	0	0	0
7/17/2024 8:11	58006	WCAR_T2	0	0	0	0	0	0	-0.64	-0.59	0	0	0	0	0	0
7/17/2024 8:16	25404	LAHA_T2	319	318	-1	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
7/17/2024 8:16	25402	LAHA_T2	1	1	0	0.2	0.1	-0.1	-0.45	-0.46	0	0	0	0	0	0
7/17/2024 8:17	25404	LAHA_T2	319	318	-1	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
7/17/2024 8:17	25402	LAHA_T2	1	1	0	0.2	0.1	-0.1	-0.45	-0.46	0	0	0	0	0	0
7/17/2024 8:21	58702	ROSE_T2	0	1	1	0	0	0	-1.85	-1.83	0	0	0	0	0	0
7/17/2024 8:21	58705	ROSE_T2	5	5	0	0.54	0.66	0.12	0	0	0	0	0	0	0	0
7/17/2024 8:21	58706	ROSE_T2	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
7/17/2024 8:22	58706	ROSE_T2	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
7/17/2024 8:22	58702	ROSE_T2	0	1	1	0	0	0	-1.83	-1.73	0	0	0	0	0	0
7/17/2024 8:22	58705	ROSE_T2	5	5	0	0.54	0.66	0.12	0	0	0	0	0	0	0	0
7/17/2024 8:23	56802	BENV_T2	0	0	0	0	0	0	-0.86	-0.8	0	0	0	0	0	0
7/17/2024 8:26	54502	ENOL_T2	31	1	-30	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
7/17/2024 8:26	54501	ENOL_T2	0	0	0	0	0	0	-0.15	-0.05	1	1	0	600	600	0
7/17/2024 8:27	56802	BENV_T2	0	0	0	0	0	0	-0.86	-0.8	0	0	0	0	0	0
7/17/2024 8:28	56802	BENV_T2	0	0	0	0	0	0	-0.86	-0.8	0	0	0	0	0	0
7/17/2024 8:29	56802	BENV_T2	0	0	0	0	0	0	-0.86	-0.8	0	0	0	0	0	0
7/17/2024 8:32	52401	GRPA_T2	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 8:32	13503	MCMI_T2	21	73	52	0.21	0.21	0	-0.74	-0.73	0	0	0	0	0	0
7/17/2024 8:32	52403	GRPA_T2	63	83	20	0.89	0.92	0.03	-0.06	-0.08	0	0	0	0	0	0
7/17/2024 8:36	46302	ROHR_T1	2	4	2	0.8	0.88	0.08	0.3	0.3	0	0	0	0	0	0
7/17/2024 8:37	46302	ROHR_T1	2	4	2	0.8	0.88	0.08	0.3	0.3	0	0	0	0	0	0
7/17/2024 8:37	43304	WATS_T2	1	1	0	0.3	0	-0.3	0.01	-0.73	0	1	1	0	600	600
7/17/2024 8:38	56501	ROCK_T2	1	1	0	0.3	0.3	0	-3.75	-3.75	0	0	0	0	0	0
7/17/2024 8:40	15702	TANN_T2	1	1	0	0.3	0.2	-0.1	-0.1	-0.07	0	0	0	0	0	0
7/17/2024 8:40	15703	TANN_T2	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
7/17/2024 8:41	21203	ECAR_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
7/17/2024 8:41	61102	BERK_T5	0	0	0	0	0	0	0.86	0.31	0	0	0	0	0	0
7/17/2024 8:42	61102	BERK_T5	0	0	0	0	0	0	2.58	0.92	0	0	0	0	0	0
7/17/2024 8:42	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/17/2024 8:44	45802	HEGI_T2	35	109	74	0.45	0.46	0.01	1.81	1.86	4	4	0	2400	2400	0
7/17/2024 8:44	46206	DANV_T2	71	73	2	0.85	0.88	0.03	2.09	2.12	2	2	0	2100	2100	0
7/17/2024 8:44	52403	GRPA_T2	63	83	20	0.89	0.92	0.03	-0.08	-0.03	0	0	0	0	0	0
7/17/2024 8:44	52401	GRPA_T2	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 8:44	61102	BERK_T5	0	0	0	0	0	0	2.58	0.92	0	0	0	0	0	0
7/17/2024 8:44	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 8:46	63501	HEID_TBK1-2	0	0	0	0	0	0	0.7	0.85	1	1	0	900	900	0
7/17/2024 8:48	47403	PENS_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
7/17/2024 8:48	47401	PENS_T1	3	3	0	1.2	0.95	-0.25	0.51	0.51	0	0	0	0	0	0
7/17/2024 8:48	13503	MCMI_T2	28	72	44	0.17	0.22	0.05	-0.73	-0.72	0	0	0	0	0	0
7/17/2024 8:49	13503	MCMI_T2	28	72	44	0.17	0.22	0.05	-0.73	-0.72	0	0	0	0	0	0
7/17/2024 8:51	64101	REFR_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
7/17/2024 8:52	64101	REFR_T1	0	0	0	0	0	0	0.81	0.77	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/17/2024 8:53	64101	REFR_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
7/17/2024 8:54	64101	REFR_T1	0	0	0	0	0	0	1.21	1.16	0	0	0	0	0	0
7/17/2024 8:55	64101	REFR_T1	0	0	0	0	0	0	0.81	0.77	0	0	0	0	0	0
7/17/2024 8:55	20403	ASHF_T2	10	18	8	0.51	0.58	0.07	2	2.15	0	0	0	0	0	0
7/17/2024 8:55	20401	ASHF_T2	5	5	0	1.2	1.03	-0.17	0	0	0	0	0	0	0	0
7/17/2024 8:55	20402	ASHF_T2	6	6	0	1.1	0.65	-0.45	0	0	0	0	0	0	0	0
7/17/2024 8:56	20402	ASHF_T2	6	6	0	1.1	0.65	-0.45	0	0	0	0	0	0	0	0
7/17/2024 8:56	20403	ASHF_T2	10	18	8	0.51	0.58	0.07	2	2.15	0	0	0	0	0	0
7/17/2024 8:56	20401	ASHF_T2	5	5	0	1.2	1.03	-0.17	0	0	0	0	0	0	0	0
7/17/2024 8:57	51101	CARL_T1	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
7/17/2024 8:57	51109	CARL_T1	0	0	0	0	0	0	-0.43	-0.39	0	0	0	0	0	0
7/17/2024 8:57	51108	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 9:01	47101	MARL_T1	13	12	-1	0.67	0.13	-0.54	-0.24	-0.86	0	1	1	0	600	600
7/17/2024 9:03	47101	MARL_T1	13	12	-1	0.67	0.13	-0.54	-0.24	-0.86	0	1	1	0	600	600
7/17/2024 9:04	65603	QVIL_T2	0	0	0	0	0	0	0.77	0.79	0	0	0	0	0	0
7/17/2024 9:04	47101	MARL_T1	13	12	-1	0.67	0.13	-0.54	-0.24	-0.86	0	1	1	0	600	600
7/17/2024 9:04	56501	ROCK_T2	1	1	0	0.3	0.4	0.1	-1.25	-1.21	0	0	0	0	0	0
7/17/2024 9:05	47101	MARL_T1	13	12	-1	0.67	0.13	-0.54	-0.24	-0.86	0	1	1	0	600	600
7/17/2024 9:07	67605	WARW_T1	0	1	1	0	0	0	-1.18	-1.15	0	0	0	0	0	0
7/17/2024 9:08	29402	BELT_T1	1	1	0	6.6	8.4	1.8	0	0	0	0	0	0	0	0
7/17/2024 9:08	65603	QVIL_T2	0	0	0	0	0	0	0.79	0.88	0	0	0	0	0	0
7/17/2024 9:08	67605	WARW_T1	0	1	1	0	0	0	-0.59	-0.57	0	0	0	0	0	0
7/17/2024 9:09	60502	NMAN_T2	0	0	0	0	0	0	0.39	0.62	0	0	0	0	0	0
7/17/2024 9:11	60502	NMAN_T2	0	0	0	0	0	0	0.39	0.62	0	0	0	0	0	0
7/17/2024 9:14	52404	GRPA_T2	0	0	0	0	0	0	0.38	0.43	0	0	0	0	0	0
7/17/2024 9:14	52403	GRPA_T2	77	65	-12	1.02	0.51	-0.51	0	0	0	0	0	0	0	0
7/17/2024 9:14	52402	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/17/2024 9:14	52401	GRPA_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/17/2024 9:14	40101	HUNT_T2	124	143	19	0.72	0.54	-0.18	-0.04	0	0	0	0	0	0	0
7/17/2024 9:15	52403	GRPA_T2	62	55	-7	0.67	0.51	-0.16	0	0	0	0	0	0	0	0
7/17/2024 9:15	52402	GRPA_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
7/17/2024 9:15	52404	GRPA_T2	0	0	0	0	0	0	0.38	0.43	0	0	0	0	0	0
7/17/2024 9:24	20402	ASHF_T2	6	7	1	1.08	0.32	-0.76	0	0	0	0	0	0	0	0
7/17/2024 9:24	20401	ASHF_T2	5	5	0	1.24	1.35	0.11	0	0	0	0	0	0	0	0
7/17/2024 9:24	20403	ASHF_T2	9	1	-8	0.58	0	-0.58	0.87	0.82	0	0	0	0	0	0
7/17/2024 9:24	56801	BENV_T1	0	7	7	0	0.91	0.91	-0.52	-0.51	2	2	0	1200	1200	0
7/17/2024 9:24	56803	BENV_T1	1	1	0	2	0	-2	0.37	0.33	1	1	0	600	600	0
7/17/2024 9:25	29402	BELT_T1	1	1	0	7.9	8.4	0.5	0	0	0	0	0	0	0	0
7/17/2024 9:25	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 9:26	20401	ASHF_T2	5	5	0	1.24	1.35	0.11	0	0	0	0	0	0	0	0
7/17/2024 9:26	20403	ASHF_T2	9	1	-8	0.58	0	-0.58	0.87	0.82	0	0	0	0	0	0
7/17/2024 9:26	20402	ASHF_T2	6	7	1	1.08	0.32	-0.76	0	0	0	0	0	0	0	0
7/17/2024 9:28	63304	GREE_T1	0	0	0	0	0	0	-2.11	-2.15	0	0	0	0	0	0
7/17/2024 9:29	47001	HUGH_T2	3	4	1	7.33	7.27	-0.06	-0.94	-0.95	1	1	0	900	900	0
7/17/2024 9:29	11104	EGYP_T1	0	6	6	0	0.1	0.1	1.15	1.23	0	0	0	0	0	0
7/17/2024 9:29	56801	BENV_T1	0	7	7	0	0.91	0.91	-0.26	-0.26	1	1	0	600	600	0
7/17/2024 9:29	56803	BENV_T1	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
7/17/2024 9:29	11102	EGYP_T1	1	1	0	0.5	1.2	0.7	0	0	0	0	0	0	0	0
7/17/2024 9:29	11101	EGYP_T1	1	1	0	1.4	0.1	-1.3	0	0	0	0	0	0	0	0
7/17/2024 9:30	40101	HUNT_T2	139	191	52	0.79	0.68	-0.11	0	-0.1	0	0	0	0	0	0
7/17/2024 9:30	11101	EGYP_T1	1	4	3	0.1	2.2	2.1	0	0	0	0	0	0	0	0
7/17/2024 9:30	11102	EGYP_T1	1	3	2	1.2	1.6	0.4	0	0	0	0	0	0	0	0
7/17/2024 9:30	63304	GREE_T1	0	1	1	0	0	0	-2.11	-2.15	0	0	0	0	0	0
7/17/2024 9:30	11104	EGYP_T1	1	7	6	0.7	0.3	-0.4	1.15	1.23	0	0	0	0	0	0
7/17/2024 9:31	47001	HUGH_T2	3	3	0	7.27	7.13	-0.14	-0.94	-0.95	1	1	0	900	900	0
7/17/2024 9:34	60201	ATGL_T2	31	14	-17	0.26	0.14	-0.12	0.55	0.58	0	0	0	0	0	0
7/17/2024 9:37	24902	WHHA_T1	1	3	2	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 9:37	24902	WHHA_T1	1	17	16	1.8	0.68	-1.12	1	1.01	0	0	0	0	0	0
7/17/2024 9:38	55105	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/17/2024 9:38	55101	WERT_T1	1	8	7	0.7	0.38	-0.32	-1.66	-1.66	4	4	0	3300	3300	0
7/17/2024 9:40	55105	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/17/2024 9:40	55101	WERT_T1	1	8	7	0.7	0.38	-0.32	-1.66	-1.66	4	4	0	3300	3300	0
7/17/2024 9:41	55105	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/17/2024 9:41	55101	WERT_T1	1	8	7	0.7	0.38	-0.32	-3.32	-3.32	8	8	0	6600	6600	0
7/17/2024 9:42	55101	WERT_T1	1	8	7	0.7	0.38	-0.32	-1.66	-1.66	4	4	0	3300	3300	0
7/17/2024 9:42	55105	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/17/2024 9:44	55105	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/17/2024 9:44	55101	WERT_T1	1	8	7	0.7	0.38	-0.32	-1.66	-1.66	4	4	0	3300	3300	0
7/17/2024 9:48	64202	KINZ_T1	1	3	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/17/2024 9:48	64203	KINZ_T1	3	2	-1	1.6	2	0.4	0	0	0	0	0	0	0	0
7/17/2024 9:48	64201	KINZ_T1	3	15	12	0.4	0	-0.4	-0.32	-0.18	4	4	0	2100	2100	0
7/17/2024 9:48	64204	KINZ_T1	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
7/17/2024 9:48	12801	MICK_T1	0	0	0	0	0	0	-0.12	-0.07	1	1	0	600	600	0
7/17/2024 9:50	67605	WARW_T1	0	0	0	0	0	0	-0.55	-0.69	0	0	0	0	0	0
7/17/2024 9:51	56501	ROCK_T2	1	5	4	0.7	0.18	-0.52	-1.08	-2.34	0	0	0	0	0	0
7/17/2024 9:51	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 9:51	67605	WARW_T1	0	0	0	0	0	0	-0.55	-0.69	0	0	0	0	0	0
7/17/2024 9:52	56501	ROCK_T2	1	5	4	0.7	0.18	-0.52	-2.34	-2.31	0	0	0	0	0	0
7/17/2024 9:52	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 9:53	43304	WATS_T2	1	0	-1	0.2	0	-0.2	-0.51	-0.82	1	1	0	600	600	0
7/17/2024 9:54	56501	ROCK_T2	1	5	4	0.7	0.18	-0.52	-4.67	-4.63	0	0	0	0	0	0
7/17/2024 9:54	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/17/2024 9:54	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 9:55	67605	WARW_T1	0	0	0	0	0	0	-0.69	-0.66	0	0	0	0	0	0
7/17/2024 9:55	59101	WALK_T2	0	0	0	0	0	0	0.99	0.97	0	0	0	0	0	0
7/17/2024 9:58	56803	BENV_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 9:58	56801	BENV_T1	7	3	-4	0.91	0.5	-0.41	-0.26	-0.21	1	1	0	600	600	0
7/17/2024 9:59	22904	HARW_T1	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
7/17/2024 9:59	22903	HARW_T1	11	19	8	0.46	0.54	0.08	0	0	0	0	0	0	0	0
7/17/2024 9:59	22901	HARW_T1	12	27	15	0.51	0.44	-0.07	0	0	0	0	0	0	0	0
7/17/2024 9:59	22905	HARW_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 10:00	60201	ATGL_T2	6	10	4	0.2	0.14	-0.06	0.58	0.59	0	0	0	0	0	0
7/17/2024 10:00	58001	WCAR_T1	0	1	1	0	0.2	0.2	0.43	0.36	0	0	0	0	0	0
7/17/2024 10:00	41903	REED_T1	1	4	3	0.1	0.25	0.15	0	0	0	0	0	0	0	0
7/17/2024 10:00	58003	WCAR_T1	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/17/2024 10:00	55002	NEWP_T1	2	3	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
7/17/2024 10:00	56501	ROCK_T2	1	5	4	0.3	0.35	0.05	0	0	0	0	0	0	0	0
7/17/2024 10:00	56504	ROCK_T2	0	0	0	0	0	0	0.42	0.47	0	0	0	0	0	0
7/17/2024 10:00	45802	HEGI_T2	158	56	-102	0.67	0.53	-0.14	1.03	0.97	2	2	0	1200	1200	0
7/17/2024 10:00	57401	SPAN_T1	2	1	-1	0.7	0.1	-0.6	-0.6	-0.58	1	1	0	600	600	0
7/17/2024 10:00	47401	PENS_T1	14	16	2	0.39	0.31	-0.08	0.74	0.85	0	0	0	0	0	0
7/17/2024 10:00	55001	NEWP_T1	10	1	-9	0.38	0	-0.38	0.46	0.69	0	0	0	0	0	0
7/17/2024 10:00	41902	REED_T1	3	5	2	0.53	0.2	-0.33	1.06	1.25	2	2	0	1800	1800	0
7/17/2024 10:00	53902	HALI_T2	1	1	0	3.8	4.3	0.5	0	0	0	0	0	0	0	0
7/17/2024 10:00	53903	HALI_T2	0	0	0	0	0	0	0.15	0.06	0	0	0	0	0	0
7/17/2024 10:00	13503	MCMI_T2	2	7	5	0.5	0.37	-0.13	-2.53	-2.49	0	0	0	0	0	0
7/17/2024 10:00	67503	WEMI_T2	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
7/17/2024 10:00	56503	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/17/2024 10:00	64101	REFR_T1	0	3	3	0	0	0	0.46	0.46	0	0	0	0	0	0
7/17/2024 10:00	48301	ORWI_T1	18	143	125	0.34	0.3	-0.04	2.06	2.3	0	0	0	0	0	0
7/17/2024 10:00	20601	GRWO_T2	118	220	102	0.96	1.09	0.13	1.69	1.8	0	0	0	0	0	0
7/17/2024 10:00	40505	CRES_T1	5	5	0	0.82	0.45	-0.37	1	0.96	0	0	0	0	0	0
7/17/2024 10:00	40504	CRES_T1	13	13	0	0.81	0.71	-0.1	0	0	0	0	0	0	0	0
7/17/2024 10:00	58803	COCO_T1	0	1	1	0	0.7	0.7	-0.26	-0.86	0	1	1	0	600	600
7/17/2024 10:00	40503	CRES_T1	2	5	3	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
7/17/2024 10:06	56802	BENV_T2	0	0	0	0	0	0	-0.72	-0.66	0	0	0	0	0	0
7/17/2024 10:07	58001	WCAR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/17/2024 10:07	22905	HARW_T1	1	4	3	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/17/2024 10:07	22903	HARW_T1	12	20	8	0.54	0.51	-0.03	0	0	0	0	0	0	0	0
7/17/2024 10:07	58003	WCAR_T1	1	2	1	0.5	0.3	-0.2	0.51	0.52	1	1	0	600	600	0
7/17/2024 10:07	22901	HARW_T1	27	25	-2	0.45	0.32	-0.13	0.28	0.25	1	1	0	1200	1200	0
7/17/2024 10:07	47401	PENS_T1	14	16	2	0.39	0.31	-0.08	0.85	0.89	0	0	0	0	0	0
7/17/2024 10:07	64101	REFR_T1	0	3	3	0	0	0	0.46	-0.11	0	0	0	0	0	0
7/17/2024 10:08	47401	PENS_T1	14	16	2	0.39	0.31	-0.08	0.43	0.45	0	0	0	0	0	0
7/17/2024 10:08	64101	REFR_T1	0	3	3	0	0	0	0.91	-0.22	0	0	0	0	0	0
7/17/2024 10:09	20401	ASHF_T2	4	7	3	1.2	2.13	0.93	0	0	0	0	0	0	0	0
7/17/2024 10:09	20403	ASHF_T2	0	13	13	0	0.3	0.3	0.78	0.9	0	0	0	0	0	0
7/17/2024 10:09	20402	ASHF_T2	7	16	9	1.96	1.49	-0.47	0	0	0	0	0	0	0	0
7/17/2024 10:09	24902	WHHA_T1	17	37	20	0.44	0.45	0.01	1.04	1.02	0	0	0	0	0	0
7/17/2024 10:09	24901	WHHA_T1	1	3	2	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 10:09	61102	BERK_T5	0	0	0	0	0	0	0.77	0.82	0	0	0	0	0	0
7/17/2024 10:10	20402	ASHF_T2	7	16	9	1.96	1.49	-0.47	0	0	0	0	0	0	0	0
7/17/2024 10:10	20401	ASHF_T2	4	7	3	1.2	2.13	0.93	0	0	0	0	0	0	0	0
7/17/2024 10:10	58001	WCAR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/17/2024 10:10	20403	ASHF_T2	0	13	13	0	0.3	0.3	0.78	0.9	0	0	0	0	0	0
7/17/2024 10:10	64101	REFR_T1	0	3	3	0	0	0	0.91	-0.22	0	0	0	0	0	0
7/17/2024 10:10	58003	WCAR_T1	1	2	1	0.5	0.3	-0.2	0.51	0.52	1	1	0	600	600	0
7/17/2024 10:10	61102	BERK_T5	0	0	0	0	0	0	0.77	0.82	0	0	0	0	0	0
7/17/2024 10:11	67703	WERN_T2	0	4	4	0	0.4	0.4	-0.01	-0.01	1	1	0	900	900	0
7/17/2024 10:11	20401	ASHF_T2	4	7	3	1.2	2.13	0.93	0	0	0	0	0	0	0	0
7/17/2024 10:11	20403	ASHF_T2	0	13	13	0	0.3	0.3	0.78	0.9	0	0	0	0	0	0
7/17/2024 10:11	52403	GRPA_T2	35	60	25	0.63	0.81	0.18	0	0	0	0	0	0	0	0
7/17/2024 10:11	24902	WHHA_T1	17	37	20	0.44	0.45	0.01	2.07	2.03	0	0	0	0	0	0
7/17/2024 10:11	52404	GRPA_T2	0	2	2	0	0.5	0.5	0.41	0.46	0	0	0	0	0	0
7/17/2024 10:11	61102	BERK_T5	0	0	0	0	0	0	1.55	1.64	0	0	0	0	0	0
7/17/2024 10:11	24901	WHHA_T1	1	3	2	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 10:11	20402	ASHF_T2	7	16	9	1.96	1.49	-0.47	0	0	0	0	0	0	0	0
7/17/2024 10:11	52402	GRPA_T2	0	5	5	0	0.9	0.9	0	0	0	0	0	0	0	0
7/17/2024 10:11	67701	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 10:11	52401	GRPA_T2	1	3	2	1.1	0.1	-1	0	0	0	0	0	0	0	0
7/17/2024 10:11	58006	WCAR_T2	0	0	0	0	0	0	-0.49	-0.43	0	0	0	0	0	0
7/17/2024 10:12	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	0	900	900
7/17/2024 10:12	56802	BENV_T2	0	0	0	0	0	0	-0.66	-0.61	0	0	0	0	0	0
7/17/2024 10:12	67703	WERN_T2	0	4	4	0	0.4	0.4	-0.01	-0.01	1	1	0	900	900	0
7/17/2024 10:12	29402	BELT_T1	1	1	0	7.9	8.1	0.2	0	0	0	0	0	0	0	0
7/17/2024 10:12	67701	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 10:13	45802	HEGI_T2	158	56	-102	0.67	0.53	-0.14	0.97	0.76	2	2	0	1200	1200	0
7/17/2024 10:14	61102	BERK_T5	0	0	0	0	0	0	0.77	0.82	0	0	0	0	0	0
7/17/2024 10:16	42902	MIDD_T2	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
7/17/2024 10:16	42901	MIDD_T2	3	4	1	0.33	0.55	0.22	0	0	0	0	0	0	0	0
7/17/2024 10:16	42903	MIDD_T2	0	0	0	0	0	0	0.85	0.81	1	1	0	1200	1200	0
7/17/2024 10:17	64302	LINC_T2	10	19	9	0.5	0.53	0.03	1.84	1.85	0	0	0	0	0	0
7/17/2024 10:18	61102	BERK_T5	0	0	0	0	0	0	0.77	0.82	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/17/2024 10:19	25501	MADI_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
7/17/2024 10:19	25503	MADI_T1	0	0	0	0	0	0	-0.52	-0.49	0	0	0	0	0	0
7/17/2024 10:20	12301	LANA_T2	1	3	2	0.8	0.55	-0.25	-0.64	-0.64	1	1	0	1200	1200	0
7/17/2024 10:20	56501	ROCK_T2	5	9	4	0.7	0.38	-0.32	-4.63	-4.49	0	0	0	0	0	0
7/17/2024 10:20	12304	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 10:21	60201	ATGL_T2	10	1	-9	0.14	0	-0.14	0.55	0.61	0	0	0	0	0	0
7/17/2024 10:21	56504	ROCK_T2	0	0	0	0	0	0	1.89	1.84	0	0	0	0	0	0
7/17/2024 10:21	56501	ROCK_T2	5	9	4	0.7	0.38	-0.32	0	0	0	0	0	0	0	0
7/17/2024 10:22	67605	WARW_T1	0	0	0	0	0	0	-0.65	-0.73	0	0	0	0	0	0
7/17/2024 10:22	67605	WARW_T1	0	0	0	0	0	0	-0.65	-0.73	0	0	0	0	0	0
7/17/2024 10:22	67605	WARW_T1	0	0	0	0	0	0	-0.65	-0.73	0	0	0	0	0	0
7/17/2024 10:22	67605	WARW_T1	0	0	0	0	0	0	-0.65	-0.73	0	0	0	0	0	0
7/17/2024 10:22	56501	ROCK_T2	5	9	4	0.7	0.38	-0.32	-2.25	-2.24	0	0	0	0	0	0
7/17/2024 10:22	55105	WERT_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/17/2024 10:22	55101	WERT_T1	16	51	35	0.47	0.53	0.06	-1.41	-1.25	4	4	0	3300	3300	0
7/17/2024 10:22	64101	REFR_T1	3	0	-3	0.23	0	-0.23	-0.11	-0.07	0	0	0	0	0	0
7/17/2024 10:22	67603	WARW_T1	0	0	0	0	0	0	-0.13	-0.1	0	0	0	0	0	0
7/17/2024 10:23	52401	GRPA_T2	2	3	1	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
7/17/2024 10:23	67605	WARW_T1	0	0	0	0	0	0	-0.65	-0.73	0	0	0	0	0	0
7/17/2024 10:23	55101	WERT_T1	16	51	35	0.47	0.53	0.06	-1.41	-1.25	4	4	0	3300	3300	0
7/17/2024 10:23	52404	GRPA_T2	2	5	3	0.3	0.9	0.6	0.46	0.44	0	0	0	0	0	0
7/17/2024 10:23	52402	GRPA_T2	3	11	8	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
7/17/2024 10:23	55105	WERT_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/17/2024 10:23	56501	ROCK_T2	5	9	4	0.7	0.38	-0.32	-6.74	-6.73	0	0	0	0	0	0
7/17/2024 10:23	64101	REFR_T1	3	0	-3	0.23	0	-0.23	-0.22	-0.13	0	0	0	0	0	0
7/17/2024 10:23	52403	GRPA_T2	43	93	50	0.64	0.63	-0.01	0	0	0	0	0	0	0	0
7/17/2024 10:24	52404	GRPA_T2	2	5	3	0.3	0.9	0.6	0	0	0	0	0	0	0	0
7/17/2024 10:24	55101	WERT_T1	16	51	35	0.47	0.53	0.06	-2.83	-2.5	8	8	0	6600	6600	0
7/17/2024 10:24	52402	GRPA_T2	3	11	8	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
7/17/2024 10:24	52401	GRPA_T2	2	3	1	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
7/17/2024 10:24	56501	ROCK_T2	5	9	4	0.7	0.38	-0.32	-2.25	-2.24	0	0	0	0	0	0
7/17/2024 10:24	67603	WARW_T1	0	0	0	0	0	0	-0.13	-0.1	0	0	0	0	0	0
7/17/2024 10:24	55105	WERT_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/17/2024 10:24	52403	GRPA_T2	43	93	50	0.64	0.63	-0.01	0.17	0.19	0	0	0	0	0	0
7/17/2024 10:25	52404	GRPA_T2	2	5	3	0.3	0.9	0.6	0	0	0	0	0	0	0	0
7/17/2024 10:25	56501	ROCK_T2	5	9	4	0.7	0.38	-0.32	0	0	0	0	0	0	0	0
7/17/2024 10:25	56504	ROCK_T2	0	0	0	0	0	0	0.46	0.51	0	0	0	0	0	0
7/17/2024 10:25	52401	GRPA_T2	2	3	1	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
7/17/2024 10:25	65801	RTWN_T1	0	0	0	0	0	0	-0.5	-0.42	2	2	0	1200	1200	0
7/17/2024 10:25	52403	GRPA_T2	43	93	50	0.64	0.63	-0.01	0	0	0	0	0	0	0	0
7/17/2024 10:25	52402	GRPA_T2	3	11	8	0.9	0.4	-0.5	-0.49	-0.46	0	0	0	0	0	0
7/17/2024 10:25	67605	WARW_T1	0	0	0	0	0	0	-0.65	-0.73	0	0	0	0	0	0
7/17/2024 10:26	55101	WERT_T1	16	51	35	0.47	0.53	0.06	-2.83	-2.5	8	8	0	6600	6600	0
7/17/2024 10:26	52404	GRPA_T2	2	5	3	0.3	0.9	0.6	0	0	0	0	0	0	0	0
7/17/2024 10:26	67605	WARW_T1	0	0	0	0	0	0	-1.3	-1.47	0	0	0	0	0	0
7/17/2024 10:26	55105	WERT_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/17/2024 10:26	56803	BENV_T1	2	3	1	1.45	1.6	0.15	0	0	0	0	0	0	0	0
7/17/2024 10:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/17/2024 10:26	56801	BENV_T1	2	1	-1	0.5	0.2	-0.3	-0.33	-0.31	2	2	0	1200	1200	0
7/17/2024 10:26	52402	GRPA_T2	3	11	8	0.9	0.4	-0.5	-0.49	-0.46	0	0	0	0	0	0
7/17/2024 10:26	52401	GRPA_T2	2	3	1	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
7/17/2024 10:26	52403	GRPA_T2	43	93	50	0.64	0.63	-0.01	0	0	0	0	0	0	0	0
7/17/2024 10:26	29402	BELT_T1	1	1	0	7.6	8.1	0.5	0	0	0	0	0	0	0	0
7/17/2024 10:27	29402	BELT_T1	1	1	0	7.6	8.1	0.5	0	0	0	0	0	0	0	0
7/17/2024 10:27	55101	WERT_T1	16	51	35	0.47	0.53	0.06	-1.41	-1.25	4	4	0	3300	3300	0
7/17/2024 10:27	56801	BENV_T1	2	1	-1	0.5	0.2	-0.3	-0.66	-0.62	4	4	0	2400	2400	0
7/17/2024 10:27	61102	BERK_T5	0	0	0	0	0	0	0.82	0.76	0	0	0	0	0	0
7/17/2024 10:27	55105	WERT_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/17/2024 10:27	56803	BENV_T1	2	3	1	1.45	1.6	0.15	0.4	0.41	1	1	0	600	600	0
7/17/2024 10:28	56803	BENV_T1	2	3	1	1.45	1.6	0.15	0	0	0	0	0	0	0	0
7/17/2024 10:28	67703	WERN_T2	2	6	4	0.4	0.35	-0.05	-0.02	-0.02	2	2	0	1800	1800	0
7/17/2024 10:28	56801	BENV_T1	2	1	-1	0.5	0.2	-0.3	-0.16	-0.15	1	1	0	600	600	0
7/17/2024 10:29	67703	WERN_T2	2	6	4	0.4	0.35	-0.05	-0.01	-0.01	1	1	0	900	900	0
7/17/2024 10:29	56803	BENV_T1	2	3	1	1.45	1.6	0.15	0	0	0	0	0	0	0	0
7/17/2024 10:29	56801	BENV_T1	2	1	-1	0.5	0.2	-0.3	-0.16	-0.15	1	1	0	600	600	0
7/17/2024 10:30	64201	KINZ_T1	0	2	2	0	0	0	-1.25	-1.09	5	5	0	3300	3300	0
7/17/2024 10:30	56803	BENV_T1	2	3	1	1.7	1.37	-0.33	0	0	0	0	0	0	0	0
7/17/2024 10:30	64204	KINZ_T1	1	2	1	1.1	1	-0.1	0	0	0	0	0	0	0	0
7/17/2024 10:30	40902	JESH_T1	2	1	-1	0.3	0	-0.3	-0.64	-0.6	3	3	0	1800	1800	0
7/17/2024 10:30	40901	JESH_T1	1	1	0	2.1	1.9	-0.2	0	0	0	0	0	0	0	0
7/17/2024 10:30	56801	BENV_T1	0	2	2	0	0.6	0.6	-0.49	-0.46	3	3	0	1800	1800	0
7/17/2024 10:30	64203	KINZ_T1	2	5	3	2.35	2.7	0.35	0	0	0	0	0	0	0	0
7/17/2024 10:32	64204	KINZ_T1	1	2	1	1.1	1	-0.1	0	0	0	0	0	0	0	0
7/17/2024 10:32	20403	ASHF_T2	6	18	12	0.2	0.23	0.03	0.9	0.86	0	0	0	0	0	0
7/17/2024 10:32	64203	KINZ_T1	2	5	3	2.35	2.7	0.35	0.76	0.72	3	3	0	2100	2100	0
7/17/2024 10:32	20401	ASHF_T2	7	11	4	2.54	1.91	-0.63	0	0	0	0	0	0	0	0
7/17/2024 10:32	20402	ASHF_T2	15	18	3	1.07	1.01	-0.06	0	0	0	0	0	0	0	0
7/17/2024 10:32	64201	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 10:33	65503	MOJO_T2	3	4	1	0.4	0.37	-0.03	0.14	0.25	1	1	0	900	900	0
7/17/2024 10:34	65503	MOJO_T2	3	4	1	0.4	0.37	-0.03	0.14	0.25	1	1	0	900	900	0
7/17/2024 10:35	48301	ORWI_T1	143	160	17	0.46	0.39	-0.07	1.11	1.1	0	0	0	0	0	0
7/17/2024 10:36	54701	NEBL_T1	3	4	1	0.23	0	-0.23	0	0	1	1	0	600	600	0
7/17/2024 10:36	55408	SHER_T2	2	2	0	0.65	0.6	-0.05	-0.94	-0.94	1	1	0	1200	1200	0
7/17/2024 10:37	48301	ORWI_T1	143	160	17	0.46	0.39	-0.07	1.1	1.06	0	0	0	0	0	0
7/17/2024 10:37	67801	WLAN_T1	5	29	24	0.26	0.6	0.34	-0.48	-0.6	0	0	0	0	0	0
7/17/2024 10:37	67804	WLAN_T1	10	10	0	0.93	0.66	-0.27	0	0	0	0	0	0	0	0
7/17/2024 10:39	20402	ASHF_T2	15	18	3	1.07	1.01	-0.06	0	0	0	0	0	0	0	0
7/17/2024 10:39	20403	ASHF_T2	6	18	12	0.2	0.23	0.03	0.86	1.03	0	0	0	0	0	0
7/17/2024 10:39	20401	ASHF_T2	7	11	4	2.54	1.91	-0.63	0	0	0	0	0	0	0	0
7/17/2024 10:42	41602	CLEV_T1	0	4	4	0	0	0	0	0	1	1	0	600	600	0
7/17/2024 10:42	48902	FOSP_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
7/17/2024 10:42	61102	BERK_T5	0	1	1	0	0	0	0.76	0.73	0	0	0	0	0	0
7/17/2024 10:43	61102	BERK_T5	0	1	1	0	0	0	0.76	0.73	0	0	0	0	0	0
7/17/2024 10:44	21203	ECAR_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
7/17/2024 10:44	21201	ECAR_T1	2	5	3	0.6	1	0.4	0	0	0	0	0	0	0	0
7/17/2024 10:45	52002	LING_T2	1	0	-1	0.1	0	-0.1	0.24	0.27	1	1	0	900	900	0
7/17/2024 10:45	52006	LING_T2	5	5	0	0.68	0.1	-0.58	0	0	0	0	0	0	0	0
7/17/2024 10:45	52004	LING_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
7/17/2024 10:45	44801	EDAN_T2	2	4	2	0.35	0.3	-0.05	-2.16	-2.14	0	0	0	0	0	0
7/17/2024 10:47	52006	LING_T2	5	5	0	0.68	0.1	-0.58	0	0	0	0	0	0	0	0
7/17/2024 10:47	52002	LING_T2	1	0	-1	0.1	0	-0.1	0.24	0.27	1	1	0	900	900	0
7/17/2024 10:48	40101	HUNT_T2	154	321	167	0.58	0.6	0.02	-0.73	-0.74	0	0	0	0	0	0
7/17/2024 10:48	52002	LING_T2	1	0	-1	0.1	0	-0.1	0.24	0.27	1	1	0	900	900	0
7/17/2024 10:48	52006	LING_T2	5	5	0	0.68	0.1	-0.58	0	0	0	0	0	0	0	0
7/17/2024 10:48	47401	PENS_T1	9	26	17	0.76	0.68	-0.08	0.41	0.53	0	0	0	0	0	0
7/17/2024 10:49	47401	PENS_T1	9	26	17	0.76	0.68	-0.08	0.41	0.53	0	0	0	0	0	0
7/17/2024 10:49	52002	LING_T2	1	0	-1	0.1	0	-0.1	0.94	1.09	4	4	0	3600	3600	0
7/17/2024 10:49	52006	LING_T2	5	5	0	0.68	0.1	-0.58	0	0	0	0	0	0	0	0
7/17/2024 10:50	47401	PENS_T1	9	26	17	0.76	0.68	-0.08	0.41	0.53	0	0	0	0	0	0
7/17/2024 10:51	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/17/2024 10:52	47401	PENS_T1	9	26	17	0.76	0.68	-0.08	0.53	0.68	0	0	0	0	0	0
7/17/2024 10:52	59202	THOM_T1	0	6	6	0	0.4	0.4	0	0	0	0	0	0	0	0
7/17/2024 10:53	43304	WATS_T2	0	18	18	0	0.2	0.2	0	0	0	0	0	0	0	0
7/17/2024 10:53	47401	PENS_T1	9	26	17	0.76	0.68	-0.08	0.53	0.68	0	0	0	0	0	0
7/17/2024 10:54	29401	BELT_T1	0	21	21	0	0.37	0.37	0	0	0	0	0	0	0	0
7/17/2024 10:54	67605	WARW_T1	0	1	1	0	0.8	0.8	-0.72	-0.67	0	0	0	0	0	0
7/17/2024 10:54	16302	ALPA_T2	0	0	0	0	0	0	0.24	0.3	0	0	0	0	0	0
7/17/2024 10:54	59202	THOM_T1	0	6	6	0	0.4	0.4	0	0	0	0	0	0	0	0
7/17/2024 10:54	29402	BELT_T1	1	1	0	7.9	7.4	-0.5	0	0	0	0	0	0	0	0
7/17/2024 10:54	43304	WATS_T2	0	18	18	0	0.2	0.2	-0.36	-0.3	1	1	0	600	600	0
7/17/2024 10:55	44301	BEAV_T2	5	7	2	0.68	0.7	0.02	0.65	0.81	2	2	0	1500	1500	0
7/17/2024 10:55	46203	DANV_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/17/2024 10:55	16302	ALPA_T2	0	0	0	0	0	0	0.24	0.3	0	0	0	0	0	0
7/17/2024 10:55	46204	DANV_T2	22	44	22	0.46	0.5	0.04	0	0	0	0	0	0	0	0
7/17/2024 10:55	46206	DANV_T2	78	95	17	0.98	0.93	-0.05	2.16	2.18	2	2	0	2100	2100	0
7/17/2024 10:55	56802	BENV_T2	0	3	3	0	0	0	-0.61	-0.55	0	0	0	0	0	0
7/17/2024 10:55	43304	WATS_T2	0	18	18	0	0.2	0.2	-0.36	-0.3	1	1	0	600	600	0
7/17/2024 10:57	16302	ALPA_T2	0	0	0	0	0	0	0.49	0.6	0	0	0	0	0	0
7/17/2024 10:58	52401	GRPA_T2	3	2	-1	0.77	1.1	0.33	0	0	0	0	0	0	0	0
7/17/2024 10:58	46206	DANV_T2	78	95	17	0.98	0.93	-0.05	2.16	2.18	2	2	0	2100	2100	0
7/17/2024 10:58	46204	DANV_T2	22	44	22	0.46	0.5	0.04	0	0	0	0	0	0	0	0
7/17/2024 10:58	52403	GRPA_T2	90	95	5	0.65	0.69	0.04	0.24	0.22	0	0	0	0	0	0
7/17/2024 10:58	52404	GRPA_T2	5	0	-5	0.44	0	-0.44	0	0	0	0	0	0	0	0
7/17/2024 10:58	52402	GRPA_T2	7	3	-4	0.49	0.25	-0.24	0	0	0	0	0	0	0	0
7/17/2024 10:58	46203	DANV_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/17/2024 10:59	56801	BENV_T1	1	5	4	0.2	0.56	0.36	-0.11	-0.1	1	1	0	600	600	0
7/17/2024 10:59	56803	BENV_T1	3	3	0	1.37	0	-1.37	0	0	0	0	0	0	0	0
7/17/2024 10:59	56802	BENV_T2	0	3	3	0	0	0	-0.61	-0.55	0	0	0	0	0	0
7/17/2024 10:59	61102	BERK_T5	0	1	1	0	0	0	1.45	0.03	0	2	2	0	1800	1800
7/17/2024 11:00	56802	BENV_T2	0	3	3	0	0.4	0.4	-1.22	-1.09	0	0	0	0	0	0
7/17/2024 11:01	47104	MARL_T1	23	15	-8	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
7/17/2024 11:01	47101	MARL_T1	77	158	81	0.82	1.07	0.25	-0.66	-0.52	1	1	0	600	600	0
7/17/2024 11:01	44801	EDAN_T2	2	6	4	0.5	0.42	-0.08	-1.07	-1.01	0	0	0	0	0	0
7/17/2024 11:02	12807	MICK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/17/2024 11:02	12801	MICK_T1	0	0	0	0	0	0	0.14	0.19	1	1	0	600	600	0
7/17/2024 11:02	65503	MOJO_T2	4	21	17	0.5	0.5	0	0.27	0.34	1	1	0	900	900	0
7/17/2024 11:03	47104	MARL_T1	23	15	-8	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
7/17/2024 11:03	47101	MARL_T1	77	158	81	0.82	1.07	0.25	-1.99	-1.55	3	3	0	1800	1800	0
7/17/2024 11:04	47101	MARL_T1	77	158	81	0.82	1.07	0.25	-1.33	-1.03	2	2	0	1200	1200	0
7/17/2024 11:04	47104	MARL_T1	23	15	-8	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
7/17/2024 11:04	44801	EDAN_T2	2	6	4	0.5	0.42	-0.08	-1.07	-1.01	0	0	0	0	0	0
7/17/2024 11:06	47104	MARL_T1	23	15	-8	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
7/17/2024 11:06	47101	MARL_T1	77	158	81	0.82	1.07	0.25	-0.66	-0.52	1	1	0	600	600	0
7/17/2024 11:07	64101	REFR_T1	3	12	9	0.43	0.73	0.3	0.06	0.09	0	0	0	0	0	0
7/17/2024 11:07	67203	TEHI_T1	49	63	14	0.85	0.92	0.07	3.5	3.64	3	3	0	2100	2100	0
7/17/2024 11:07	67201	TEHI_T1	34	33	-1	0.86	0.64	-0.22	0	0	0	0	0	0	0	0
7/17/2024 11:09	47401	PENS_T1	13	28	15	0.77	0.82	0.05	0.68	0.65	0	0	0	0	0	0
7/17/2024 11:09	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 11:10	63804	HEMP_T1	1	4	3	7.9	8.4	0.5	0	0	0	0	0	0	0	0
7/17/2024 11:10	52403	GRPA_T2	94	91	-3	0.73	0.66	-0.07	0	0	0	0	0	0	0	0
7/17/2024 11:10	63802	HEMP_T1	0	0	0	0	0	0	0.76	0.81	0	0	0	0	0	0
7/17/2024 11:10	52401	GRPA_T2	2	4	2	0.65	0	-0.65	0	0	0	0	0	0	0	0
7/17/2024 11:10	52402	GRPA_T2	3	14	11	0.27	0.45	0.18	-0.79	-0.88	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/17/2024 11:11	55103	WERT_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/17/2024 11:11	55101	WERT_T1	37	51	14	0.69	0.65	-0.04	-1.43	-1.41	4	4	0	3300	3300	0
7/17/2024 11:12	59101	WALK_T2	0	1	1	0	0	0	0.96	1.04	0	0	0	0	0	0
7/17/2024 11:13	64201	KINZ_T1	2	9	7	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/17/2024 11:13	64203	KINZ_T1	5	19	14	1.3	1.27	-0.03	0.65	0.68	3	3	0	2100	2100	0
7/17/2024 11:13	64204	KINZ_T1	2	2	0	1.15	1.35	0.2	0	0	0	0	0	0	0	0
7/17/2024 11:13	64202	KINZ_T1	0	5	5	0	0.33	0.33	0	0	0	0	0	0	0	0
7/17/2024 11:14	64201	KINZ_T1	2	9	7	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/17/2024 11:14	64203	KINZ_T1	5	19	14	1.3	1.27	-0.03	0.65	0.68	3	3	0	2100	2100	0
7/17/2024 11:14	40101	HUNT_T2	189	318	129	0.6	0.51	-0.09	-0.68	-1.06	0	0	0	0	0	0
7/17/2024 11:14	64202	KINZ_T1	0	5	5	0	0.33	0.33	0	0	0	0	0	0	0	0
7/17/2024 11:14	64204	KINZ_T1	2	2	0	1.15	1.35	0.2	0	0	0	0	0	0	0	0
7/17/2024 11:15	56802	BENV_T2	3	3	0	0.6	0.4	-0.2	-0.55	-0.51	0	0	0	0	0	0
7/17/2024 11:16	47101	MARL_T1	121	187	66	1.11	0.93	-0.18	-0.52	-0.58	1	1	0	600	600	0
7/17/2024 11:16	46206	DANV_T2	86	102	16	0.93	1.01	0.08	0	0	0	0	0	0	0	0
7/17/2024 11:16	46203	DANV_T2	0	0	0	0	0	0	-1.09	-1.09	0	0	0	0	0	0
7/17/2024 11:16	46205	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 11:16	47104	MARL_T1	15	11	-4	0.43	0.43	0	0	0	0	0	0	0	0	0
7/17/2024 11:16	46204	DANV_T2	27	108	81	0.51	0.35	-0.16	0	0	0	0	0	0	0	0
7/17/2024 11:17	40101	HUNT_T2	318	192	-126	0.89	0.5	-0.39	-0.68	-1.06	0	0	0	0	0	0
7/17/2024 11:18	53501	EVIL_T2	1	2	1	0.4	0.1	-0.3	-1.26	-1.26	3	3	0	2100	2100	0
7/17/2024 11:18	48301	ORWI_T1	186	268	82	0.48	0.53	0.05	1.07	1.14	0	0	0	0	0	0
7/17/2024 11:18	53502	EVIL_T2	7	7	0	0.93	1	0.07	0	0	0	0	0	0	0	0
7/17/2024 11:20	47101	MARL_T1	121	187	66	1.11	0.93	-0.18	-0.52	-0.58	1	1	0	600	600	0
7/17/2024 11:20	47104	MARL_T1	15	11	-4	0.43	0.43	0	0	0	0	0	0	0	0	0
7/17/2024 11:21	48301	ORWI_T1	186	268	82	0.48	0.53	0.05	1.07	1.14	0	0	0	0	0	0
7/17/2024 11:21	65503	MOJO_T2	7	24	17	0.5	0.59	0.09	0.8	0.75	2	2	0	1800	1800	0
7/17/2024 11:22	45801	HEGI_T1	0	0	0	0	0	0	0.21	0.24	1	1	0	900	900	0
7/17/2024 11:22	59101	WALK_T2	0	1	1	0	0.1	0.1	1.04	0.95	0	0	0	0	0	0
7/17/2024 11:24	44301	BEAV_T2	7	9	2	0.89	0.73	-0.16	0.74	0.74	2	2	0	1500	1500	0
7/17/2024 11:25	67605	WARW_T1	1	1	0	0.8	0.4	-0.4	-0.62	-0.56	0	0	0	0	0	0
7/17/2024 11:25	60502	NMAN_T2	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
7/17/2024 11:25	43304	WATS_T2	17	9	-8	0.52	0.67	0.15	-0.83	-0.9	1	1	0	600	600	0
7/17/2024 11:25	44301	BEAV_T2	7	9	2	0.89	0.73	-0.16	0.74	0.74	2	2	0	1500	1500	0
7/17/2024 11:26	67605	WARW_T1	1	1	0	0.8	0.4	-0.4	-0.62	-0.56	0	0	0	0	0	0
7/17/2024 11:26	44801	EDAN_T2	4	6	2	0.28	0.47	0.19	-1.02	-1.02	0	0	0	0	0	0
7/17/2024 11:27	42701	AUGU_T1	28	51	23	0.57	0.53	-0.04	0	0	2	2	0	1800	1800	0
7/17/2024 11:27	44801	EDAN_T2	4	6	2	0.28	0.47	0.19	-1.02	-1.02	0	0	0	0	0	0
7/17/2024 11:28	47401	PENS_T1	26	15	-11	0.9	0.83	-0.07	0.65	0.59	0	0	0	0	0	0
7/17/2024 11:28	47901	HRDG_T1	0	0	0	0	0	0	1.11	1.06	1	1	0	1200	1200	0
7/17/2024 11:28	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 11:30	56501	ROCK_T2	1	87	86	1.1	0.24	-0.86	0	0	0	0	0	0	0	0
7/17/2024 11:30	46206	DANV_T2	77	107	30	1.06	0.95	-0.11	0	0	0	0	0	0	0	0
7/17/2024 11:30	46204	DANV_T2	49	115	66	0.36	0.43	0.07	0	0	0	0	0	0	0	0
7/17/2024 11:30	56504	ROCK_T2	7	0	-7	0.74	0	-0.74	0.49	0.51	0	0	0	0	0	0
7/17/2024 11:30	46203	DANV_T2	0	0	0	0	0	0	-1.09	-2.02	0	0	0	0	0	0
7/17/2024 11:30	46205	DANV_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
7/17/2024 11:31	46203	DANV_T2	0	0	0	0	0	0	-3.27	-6.05	0	0	0	0	0	0
7/17/2024 11:31	25404	LAHA_T2	0	183	183	0	0.19	0.19	0	0	0	0	0	0	0	0
7/17/2024 11:31	46206	DANV_T2	77	107	30	1.06	0.95	-0.11	0	0	0	0	0	0	0	0
7/17/2024 11:31	46205	DANV_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
7/17/2024 11:31	46204	DANV_T2	49	115	66	0.36	0.43	0.07	0	0	0	0	0	0	0	0
7/17/2024 11:31	25402	LAHA_T2	1	1	0	0.5	0.1	-0.4	0.07	0.19	0	0	0	0	0	0
7/17/2024 11:32	46206	DANV_T2	77	107	30	1.06	0.95	-0.11	0	0	0	0	0	0	0	0
7/17/2024 11:32	46205	DANV_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
7/17/2024 11:32	46204	DANV_T2	49	115	66	0.36	0.43	0.07	0	0	0	0	0	0	0	0
7/17/2024 11:32	46203	DANV_T2	0	0	0	0	0	0	-1.09	-2.02	0	0	0	0	0	0
7/17/2024 11:33	40101	HUNT_T2	175	183	8	0.51	0.48	-0.03	-1.06	-1.03	0	0	0	0	0	0
7/17/2024 11:38	60502	NMAN_T2	0	0	0	0	0	0	0.36	0.29	0	0	0	0	0	0
7/17/2024 11:40	45802	HEGI_T2	87	125	38	0.75	0.64	-0.11	0.83	0.83	2	2	0	1200	1200	0
7/17/2024 11:40	55408	SHER_T2	2	2	0	0.6	0.7	0.1	-0.94	-0.94	1	1	0	1200	1200	0
7/17/2024 11:42	62102	ELAN_T1	2	3	1	1.7	0.8	-0.9	-0.31	-0.06	0	0	0	0	0	0
7/17/2024 11:42	62105	ELAN_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 11:42	62104	ELAN_T1	1	3	2	1.8	0	-1.8	0	0	0	0	0	0	0	0
7/17/2024 11:42	44301	BEAV_T2	8	7	-1	0.86	0.25	-0.61	0.74	0.62	2	2	0	1500	1500	0
7/17/2024 11:45	11802	FRAN_T1	7	0	-7	0.19	0	-0.19	0	0	0	0	0	0	0	0
7/17/2024 11:45	11805	FRAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 11:45	11804	FRAN_T1	246	244	-2	1.71	1.33	-0.38	1.41	1.41	0	0	0	0	0	0
7/17/2024 11:47	23202	HIRU_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 11:47	47101	MARL_T1	177	338	161	0.94	0.97	0.03	-0.38	-0.44	1	1	0	600	600	0
7/17/2024 11:47	23201	HIRU_T2	0	0	0	0	0	0	0.31	-0.31	0	0	0	0	0	0
7/17/2024 11:47	47104	MARL_T1	7	14	7	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/17/2024 11:47	23203	HIRU_T2	0	1	1	0	0	0	0.21	0.21	0	0	0	0	0	0
7/17/2024 11:48	25501	MADI_T1	2	1	-1	0.25	2.3	2.05	0	0	0	0	0	0	0	0
7/17/2024 11:48	25503	MADI_T1	0	1	1	0	0	0	-0.42	-0.38	0	0	0	0	0	0
7/17/2024 11:50	67203	TEHI_T1	13	18	5	0.71	1.3	0.59	0	0	0	0	0	0	0	0
7/17/2024 11:50	67201	TEHI_T1	22	39	17	0.65	0.63	-0.02	1.5	1.5	1	1	0	600	600	0
7/17/2024 11:52	40602	PIGR_T1	5	5	0	0.96	0.76	-0.2	-0.62	-0.65	1	1	0	600	600	0
7/17/2024 11:52	40603	PIGR_T1	9	38	29	0.39	0.39	0	-0.37	-0.36	0	0	0	0	0	0
7/17/2024 11:52	40601	PIGR_T1	10	13	3	0.34	0.34	0	0	0	0	0	0	0	0	0
7/17/2024 11:54	66702	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 11:54	64101	REFR_T1	20	16	-4	0.62	0.63	0.01	0.08	0.17	0	0	0	0	0	0
7/17/2024 11:54	66703	STRA_T1	4	20	16	0.33	0.42	0.09	0.13	0.23	0	0	0	0	0	0
7/17/2024 11:54	66701	STRA_T1	0	5	5	0	0.5	0.5	0	0	0	0	0	0	0	0
7/17/2024 11:55	41602	CLEV_T1	18	84	66	0.6	0.44	-0.16	0	0	0	0	0	0	0	0
7/17/2024 11:55	42701	AUGU_T1	43	58	15	0.57	0.77	0.2	0	0	2	2	0	1800	1800	0
7/17/2024 11:55	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/17/2024 11:56	64202	KINZ_T1	8	38	30	0.41	0.37	-0.04	0	0	0	0	0	0	0	0
7/17/2024 11:56	64204	KINZ_T1	3	18	15	0.97	1.1	0.13	0	0	0	0	0	0	0	0
7/17/2024 11:56	11101	EGYP_T1	4	13	9	3.15	2.42	-0.73	0	0	0	0	0	0	0	0
7/17/2024 11:56	47401	PENS_T1	9	10	1	1.08	0.51	-0.57	0.66	0.71	0	0	0	0	0	0
7/17/2024 11:56	11102	EGYP_T1	15	13	-2	0.54	1.32	0.78	0	0	0	0	0	0	0	0
7/17/2024 11:56	64203	KINZ_T1	16	43	27	0.77	0.51	-0.26	0.68	0.54	3	3	0	2100	2100	0
7/17/2024 11:56	42701	AUGU_T1	43	58	15	0.57	0.77	0.2	0	0	2	2	0	1800	1800	0
7/17/2024 11:56	11104	EGYP_T1	5	17	12	2.52	1.89	-0.63	0.39	0.38	1	1	0	900	900	0
7/17/2024 11:56	64201	KINZ_T1	16	73	57	0.39	0.59	0.2	0	0	0	0	0	0	0	0
7/17/2024 11:57	64203	KINZ_T1	16	43	27	0.77	0.51	-0.26	0.68	0.54	3	3	0	2100	2100	0
7/17/2024 11:57	64201	KINZ_T1	16	73	57	0.39	0.59	0.2	0	0	0	0	0	0	0	0
7/17/2024 11:57	11101	EGYP_T1	4	13	9	3.15	2.42	-0.73	0	0	0	0	0	0	0	0
7/17/2024 11:57	11104	EGYP_T1	5	17	12	2.52	1.89	-0.63	0.39	0.38	1	1	0	900	900	0
7/17/2024 11:57	64204	KINZ_T1	3	18	15	0.97	1.1	0.13	0	0	0	0	0	0	0	0
7/17/2024 11:57	54504	ENOL_T2	0	0	0	0	0	0	-1.07	-0.99	1	1	0	600	600	0
7/17/2024 11:57	41602	CLEV_T1	18	84	66	0.6	0.44	-0.16	0	0	0	0	0	0	0	0
7/17/2024 11:57	64202	KINZ_T1	8	38	30	0.41	0.37	-0.04	0	0	0	0	0	0	0	0
7/17/2024 11:57	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/17/2024 11:57	11102	EGYP_T1	15	13	-2	0.54	1.32	0.78	0	0	0	0	0	0	0	0
7/17/2024 11:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/17/2024 11:58	11102	EGYP_T1	15	13	-2	0.54	1.32	0.78	0	0	0	0	0	0	0	0
7/17/2024 11:58	11101	EGYP_T1	4	13	9	3.15	2.42	-0.73	0	0	0	0	0	0	0	0
7/17/2024 11:58	41602	CLEV_T1	18	84	66	0.6	0.44	-0.16	0	0	0	0	0	0	0	0
7/17/2024 11:58	11104	EGYP_T1	5	17	12	2.52	1.89	-0.63	0.39	0.38	1	1	0	900	900	0
7/17/2024 11:59	64802	MONE_T2	0	0	0	0	0	0	1.23	1.17	0	0	0	0	0	0
7/17/2024 11:59	61801	EELI_T2	1	1	0	0.7	0	-0.7	0.88	0.61	1	1	0	600	600	0
7/17/2024 11:59	64801	MONE_T2	1	2	1	0.9	1.1	0.2	0	0	0	0	0	0	0	0
7/17/2024 11:59	53601	DALM_T2	1	1	0	0.1	0.3	0.2	-0.64	-0.72	2	2	0	1500	1500	0
7/17/2024 12:00	52403	GRPA_T2	41	69	28	0.74	0.82	0.08	0	0	0	0	0	0	0	0
7/17/2024 12:00	12701	MACU_T1	0	0	0	0	0	0	-0.53	-0.55	1	1	0	1200	1200	0
7/17/2024 12:00	52401	GRPA_T2	34	56	22	0.62	0.44	-0.18	-0.1	-0.13	0	0	0	0	0	0
7/17/2024 12:00	52402	GRPA_T2	16	42	26	0.74	0.51	-0.23	0	0	0	0	0	0	0	0
7/17/2024 12:00	54504	ENOL_T2	0	0	0	0	0	0	-2.14	-1.99	2	2	0	1200	1200	0
7/17/2024 12:00	52404	GRPA_T2	0	12	12	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 12:00	54502	ENOL_T2	1	2	1	9.2	8.9	-0.3	0	0	0	0	0	0	0	0
7/17/2024 12:00	67402	WAKE_T2	0	1	1	0	0	0	0.89	0.44	1	1	0	600	600	0
7/17/2024 12:01	12701	MACU_T1	0	0	0	0	0	0	-0.53	-0.55	1	1	0	1200	1200	0
7/17/2024 12:02	52404	GRPA_T2	0	12	12	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 12:02	52401	GRPA_T2	34	56	22	0.62	0.44	-0.18	0	0	0	0	0	0	0	0
7/17/2024 12:02	65501	MOJO_T1	0	0	0	0	0	0	-1.37	-1.33	2	2	0	1800	1800	0
7/17/2024 12:02	28403	HART_T2	0	0	0	0	0	0	-0.29	-0.31	1	1	0	900	900	0
7/17/2024 12:02	52403	GRPA_T2	41	69	28	0.74	0.82	0.08	-0.35	-0.32	0	0	0	0	0	0
7/17/2024 12:02	52402	GRPA_T2	16	42	26	0.74	0.51	-0.23	0	0	0	0	0	0	0	0
7/17/2024 12:03	42903	MIDD_T2	0	0	0	0	0	0	1.02	0.23	1	1	0	1200	1200	0
7/17/2024 12:03	57303	MOAL_T2	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0	0
7/17/2024 12:03	57304	MOAL_T2	23	25	2	0.7	0.75	0.05	-0.2	-0.18	0	0	0	0	0	0
7/17/2024 12:03	42901	MIDD_T2	5	11	6	1.14	0.78	-0.36	0	0	0	0	0	0	0	0
7/17/2024 12:03	42902	MIDD_T2	7	18	11	0.84	1.13	0.29	0	0	0	0	0	0	0	0
7/17/2024 12:05	66504	SMAN_T2	7	7	0	0.51	0.43	-0.08	0	0	0	0	0	0	0	0
7/17/2024 12:05	44601	SALE_T2	2	0	-2	0.25	0	-0.25	0.49	0.19	1	1	0	600	600	0
7/17/2024 12:05	67402	WAKE_T2	0	1	1	0	0	0	0.89	0.44	1	1	0	600	600	0
7/17/2024 12:05	14401	SSLA_T1	1	6	5	0.3	1.1	0.8	0	0	0	0	0	0	0	0
7/17/2024 12:05	14403	SSLA_T1	3	7	4	0.77	0.6	-0.17	1.23	1.26	1	1	0	600	600	0
7/17/2024 12:05	65001	NEFF_T2	0	0	0	0	0	0	0.89	-0.34	1	1	0	1200	1200	0
7/17/2024 12:05	14404	SSLA_T1	17	16	-1	1.04	1.16	0.12	0	0	0	0	0	0	0	0
7/17/2024 12:05	66505	SMAN_T2	17	180	163	0.38	0.77	0.39	0.5	0.71	4	4	0	2300	2300	0
7/17/2024 12:06	66505	SMAN_T2	17	180	163	0.38	0.77	0.39	0.71	0.74	4	4	0	2300	2300	0
7/17/2024 12:06	66504	SMAN_T2	7	7	0	0.51	0.43	-0.08	0	0	0	0	0	0	0	0
7/17/2024 12:06	56802	BENV_T2	1	0	-1	0.3	0	-0.3	-0.58	-0.59	0	0	0	0	0	0
7/17/2024 12:07	44601	SALE_T2	2	0	-2	0.25	0	-0.25	0.19	0.71	1	0	-1	600	0	-600
7/17/2024 12:07	59202	THOM_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
7/17/2024 12:08	67605	WARW_T1	1	0	-1	0.4	0	-0.4	-0.59	-0.58	0	0	0	0	0	0
7/17/2024 12:09	67605	WARW_T1	1	0	-1	0.4	0	-0.4	-0.59	-0.58	0	0	0	0	0	0
7/17/2024 12:10	66702	STRA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/17/2024 12:10	66703	STRA_T1	9	24	15	0.44	0.39	-0.05	0.23	0.13	0	0	0	0	0	0
7/17/2024 12:10	66701	STRA_T1	5	8	3	0.5	1.42	0.92	0	0	0	0	0	0	0	0
7/17/2024 12:11	67801	WLAN_T1	20	38	18	0.36	0.36	0	-0.82	-0.79	0	0	0	0	0	0
7/17/2024 12:11	67804	WLAN_T1	10	10	0	1.14	1.41	0.27	0	0	0	0	0	0	0	0
7/17/2024 12:13	24102	EHAZ_T1	7	21	14	1.11	0.92	-0.19	0	0	0	0	0	0	0	0
7/17/2024 12:13	24104	EHAZ_T1	1	1	0	0.3	0.3	0	-1.18	-1.15	1	1	0	1200	1200	0
7/17/2024 12:13	24101	EHAZ_T1	94	46	-48	0.79	1	0.21	0	0	0	0	0	0	0	0
7/17/2024 12:13	24105	EHAZ_T1	5	5	0	6.3	6.28	-0.02	0	0	0	0	0	0	0	0
7/17/2024 12:14	24104	EHAZ_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/17/2024 12:14	52402	GRPA_T2	16	42	26	0.74	0.51	-0.23	0	0	0	0	0	0	0	0
7/17/2024 12:14	52404	GRPA_T2	0	12	12	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 12:14	24105	EHAZ_T1	5	5	0	6.3	6.28	-0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/17/2024 12:14	52403	GRPA_T2	41	69	28	0.74	0.82	0.08	0	0	0	0	0	0	0	0
7/17/2024 12:14	52401	GRPA_T2	34	56	22	0.62	0.44	-0.18	-0.13	-0.1	0	0	0	0	0	0
7/17/2024 12:14	24102	EHAZ_T1	7	21	14	1.11	0.92	-0.19	0	0	0	0	0	0	0	0
7/17/2024 12:14	24103	EHAZ_T1	0	0	0	0	0	0	-0.83	-0.88	0	0	0	0	0	0
7/17/2024 12:14	24101	EHAZ_T1	94	46	-48	0.79	1	0.21	0	0	0	0	0	0	0	0
7/17/2024 12:15	67703	WERN_T2	5	15	10	0.5	0.47	-0.03	-0.01	-0.01	1	1	0	900	900	0
7/17/2024 12:15	67701	WERN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/17/2024 12:18	27605	PIRI_T2	1019	1113	94	1.09	1.05	-0.04	1.82	1.77	0	0	0	0	0	0
7/17/2024 12:18	27603	PIRI_T2	2	3	1	1.9	3.1	1.2	0	0	0	0	0	0	0	0
7/17/2024 12:19	65901	SAKR_T2	1	2	1	5.2	5.1	-0.1	-0.03	0.02	2	2	0	1500	1500	0
7/17/2024 12:20	27605	PIRI_T2	1019	1113	94	1.09	1.05	-0.04	1.82	1.77	0	0	0	0	0	0
7/17/2024 12:20	27603	PIRI_T2	2	3	1	1.9	3.1	1.2	0	0	0	0	0	0	0	0
7/17/2024 12:21	44601	SALE_T2	0	0	0	0	0	0	0.71	0.7	1	0	-1	600	0	-600
7/17/2024 12:25	42701	AUGU_T1	58	60	2	1.17	0.68	-0.49	0	0	2	2	0	1800	1800	0
7/17/2024 12:25	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 12:25	40302	TAMA_T3	3	4	1	0.13	0.18	0.05	-2.23	-2.19	1	1	0	1200	1200	0
7/17/2024 12:26	61101	BERK_T5	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
7/17/2024 12:26	61102	BERK_T5	0	0	0	0	0	0	-0.54	-0.57	2	2	0	1800	1800	0
7/17/2024 12:29	61102	BERK_T5	0	0	0	0	0	0	-1.08	-1.14	4	4	0	3600	3600	0
7/17/2024 12:29	61101	BERK_T5	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
7/17/2024 12:32	42701	AUGU_T1	52	62	10	0.68	1	0.32	0	0	2	2	0	1800	1800	0
7/17/2024 12:32	21901	HUMB_T1	4	4	0	0.6	0.87	0.27	-1.45	-1.48	0	0	0	0	0	0
7/17/2024 12:32	64904	MILL_T1	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
7/17/2024 12:33	40603	PIGR_T1	35	38	3	0.46	0.38	-0.08	0	0	0	0	0	0	0	0
7/17/2024 12:33	52401	GRPA_T2	34	65	31	0.46	0.53	0.07	0	0	0	0	0	0	0	0
7/17/2024 12:33	52402	GRPA_T2	16	4	-12	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
7/17/2024 12:33	40601	PIGR_T1	9	21	12	0.37	0.51	0.14	0.28	0.19	0	0	0	0	0	0
7/17/2024 12:33	52404	GRPA_T2	11	2	-9	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/17/2024 12:33	40602	PIGR_T1	4	29	25	0.75	0.68	-0.07	0	0	0	0	0	0	0	0
7/17/2024 12:33	52403	GRPA_T2	64	49	-15	0.79	0.47	-0.32	-0.38	-0.35	0	0	0	0	0	0
7/17/2024 12:34	46203	DANV_T2	3	4	1	0.33	0.1	-0.23	-1.95	-1.98	0	0	0	0	0	0
7/17/2024 12:34	46206	DANV_T2	122	243	121	1.1	1.22	0.12	0	0	0	0	0	0	0	0
7/17/2024 12:34	46204	DANV_T2	138	199	61	0.68	0.68	0	0	0	0	0	0	0	0	0
7/17/2024 12:34	46205	DANV_T2	2	6	4	0.4	0.63	0.23	0	0	0	0	0	0	0	0
7/17/2024 12:35	48301	ORWI_T1	124	234	110	0.38	0.5	0.12	1.2	1.21	0	0	0	0	0	0
7/17/2024 12:35	48303	ORWI_T2	4	0	-4	0.28	0	-0.28	0.91	0.59	0	0	0	0	0	0
7/17/2024 12:35	48302	ORWI_T2	74	79	5	0.54	0.43	-0.11	0	0	0	0	0	0	0	0
7/17/2024 12:37	14403	SSLA_T1	7	16	9	0.89	0.79	-0.1	1.31	1.39	1	1	0	600	600	0
7/17/2024 12:37	14401	SSLA_T1	5	9	4	0.42	0.33	-0.09	0	0	0	0	0	0	0	0
7/17/2024 12:37	14404	SSLA_T1	16	35	19	1.33	1.21	-0.12	0	0	0	0	0	0	0	0
7/17/2024 12:38	55408	SHER_T2	1	1	0	1.6	1.6	0	-0.94	-0.94	1	1	0	1200	1200	0
7/17/2024 12:38	55402	SHER_T2	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
7/17/2024 12:39	64204	KINZ_T1	80	260	180	0.89	0.99	0.1	0	0	0	0	0	0	0	0
7/17/2024 12:39	57403	SPAN_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 12:39	46206	DANV_T2	122	243	121	1.1	1.22	0.12	2.17	2.52	2	2	0	2100	2100	0
7/17/2024 12:39	64201	KINZ_T1	88	657	569	0.6	0.59	-0.01	0	0	0	0	0	0	0	0
7/17/2024 12:39	64202	KINZ_T1	34	57	23	0.44	0.78	0.34	0	0	0	0	0	0	0	0
7/17/2024 12:39	46204	DANV_T2	138	199	61	0.68	0.68	0	0	0	0	0	0	0	0	0
7/17/2024 12:39	46205	DANV_T2	2	6	4	0.4	0.63	0.23	0	0	0	0	0	0	0	0
7/17/2024 12:39	57401	SPAN_T1	13	102	89	0.68	0.44	-0.24	-0.7	-0.69	1	1	0	600	600	0
7/17/2024 12:39	64203	KINZ_T1	24	289	265	0.67	0.76	0.09	0.75	0.72	3	3	0	2100	2100	0
7/17/2024 12:39	46203	DANV_T2	3	4	1	0.33	0.1	-0.23	0	0	0	0	0	0	0	0
7/17/2024 12:40	44301	BEAV_T2	2	15	13	0.45	1.17	0.72	0.28	0.58	2	2	0	1500	1500	0
7/17/2024 12:40	60803	BUCK_T1	0	0	0	0	0	0	-0.1	-0.06	1	1	0	600	600	0
7/17/2024 12:40	64204	KINZ_T1	80	260	180	0.89	0.99	0.1	0	0	0	0	0	0	0	0
7/17/2024 12:40	64201	KINZ_T1	88	657	569	0.6	0.59	-0.01	0	0	0	0	0	0	0	0
7/17/2024 12:40	64202	KINZ_T1	34	57	23	0.44	0.78	0.34	0	0	0	0	0	0	0	0
7/17/2024 12:40	64203	KINZ_T1	24	289	265	0.67	0.76	0.09	0.75	0.72	3	3	0	2100	2100	0
7/17/2024 12:42	60803	BUCK_T1	0	0	0	0	0	0	-0.1	-0.06	1	1	0	600	600	0
7/17/2024 12:43	60803	BUCK_T1	0	0	0	0	0	0	-0.1	-0.06	1	1	0	600	600	0
7/17/2024 12:44	60803	BUCK_T1	0	0	0	0	0	0	-0.1	-0.06	1	1	0	600	600	0
7/17/2024 12:45	55101	WERT_T1	27	19	-8	0.68	0.75	0.07	-1.81	-1.82	4	4	0	3300	3300	0
7/17/2024 12:46	40101	HUNT_T2	81	70	-11	0.49	0.44	-0.05	-1.24	-1.21	0	0	0	0	0	0
7/17/2024 12:47	40101	HUNT_T2	81	70	-11	0.49	0.44	-0.05	-1.24	-1.21	0	0	0	0	0	0
7/17/2024 12:47	53803	MBRG_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
7/17/2024 12:48	40603	PIGR_T1	20	38	18	0.41	0.32	-0.09	0	0	0	0	0	0	0	0
7/17/2024 12:48	40602	PIGR_T1	10	28	18	0.8	0.97	0.17	-0.66	-0.61	1	1	0	600	600	0
7/17/2024 12:48	53803	MBRG_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
7/17/2024 12:48	40601	PIGR_T1	16	20	4	0.53	0.54	0.01	0	0	0	0	0	0	0	0
7/17/2024 12:49	64204	KINZ_T1	189	505	316	1	0.91	-0.09	0	0	0	0	0	0	0	0
7/17/2024 12:49	64201	KINZ_T1	383	954	571	0.59	0.92	0.33	0	0	0	0	0	0	0	0
7/17/2024 12:49	64203	KINZ_T1	153	960	807	0.77	0.76	-0.01	0.75	0.72	3	3	0	2100	2100	0
7/17/2024 12:49	64202	KINZ_T1	48	74	26	0.78	1.33	0.55	0	0	0	0	0	0	0	0
7/17/2024 12:52	52501	PROG_T1	0	0	0	0	0	0	-0.18	-0.18	1	1	0	300	300	0
7/17/2024 12:53	66901	SHIL_T2	0	0	0	0	0	0	-1.55	-1.47	1	1	0	1200	1200	0
7/17/2024 12:54	20401	ASHF_T2	35	29	-6	0.93	0.64	-0.29	0	0	0	0	0	0	0	0
7/17/2024 12:54	15402	WALL_T1	2	1	-1	0.3	0.2	-0.1	-0.46	-0.39	1	1	0	1200	1200	0
7/17/2024 12:54	43304	WATS_T2	0	7	7	0	0.1	0.1	-0.93	-0.8	1	1	0	600	600	0
7/17/2024 12:54	15401	WALL_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/17/2024 12:54	20403	ASHF_T2	88	28	-60	0.55	0.57	0.02	1.18	1.2	0	0	0	0	0	0
7/17/2024 12:54	15406	WALL_T1	4	3	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
7/17/2024 12:54	20402	ASHF_T2	91	105	14	1.17	1.15	-0.02	0	0	0	0	0	0	0	0
7/17/2024 12:55	43304	WATS_T2	0	7	7	0	0.1	0.1	-1.86	-1.59	2	2	0	1200	1200	0
7/17/2024 12:55	61303	EARL_T1	1	1	0	0.1	0	-0.1	-0.21	-0.3	0	0	0	0	0	0
7/17/2024 12:55	61304	EARL_T1	6	6	0	0.37	0.45	0.08	0	0	0	0	0	0	0	0
7/17/2024 12:56	44801	EDAN_T2	1	4	3	1.4	0.75	-0.65	-0.9	-0.92	0	0	0	0	0	0
7/17/2024 12:58	44301	BEAV_T2	3	23	20	1.17	0.59	-0.58	0.58	0.78	2	2	0	1500	1500	0
7/17/2024 12:59	51603	DUKE_T1	0	0	0	0	0	0	-0.6	-0.55	1	1	0	900	900	0
7/17/2024 13:00	28805	LAKE_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
7/17/2024 13:01	20601	GRWO_T2	120	148	28	0.81	0.81	0	-0.02	-0.06	1	1	0	1200	1200	0
7/17/2024 13:01	11507	REE_T2	69	26	-43	0.75	0.81	0.06	0.71	0.28	1	1	0	600	600	0
7/17/2024 13:04	40601	PIGR_T1	18	17	-1	0.48	0.58	0.1	0	0	0	0	0	0	0	0
7/17/2024 13:04	40603	PIGR_T1	37	20	-17	0.46	0.37	-0.09	0	0	0	0	0	0	0	0
7/17/2024 13:04	40602	PIGR_T1	28	8	-20	0.55	0.83	0.28	-0.61	-0.59	1	1	0	600	600	0
7/17/2024 13:05	61304	EARL_T1	6	6	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
7/17/2024 13:05	61303	EARL_T1	1	0	-1	0.2	0	-0.2	-0.21	-0.3	0	0	0	0	0	0
7/17/2024 13:06	66701	STRA_T1	8	12	4	1.48	0.73	-0.75	0	0	0	0	0	0	0	0
7/17/2024 13:06	66703	STRA_T1	48	93	45	0.51	0.57	0.06	0.15	0.19	0	0	0	0	0	0
7/17/2024 13:06	66702	STRA_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/17/2024 13:07	66703	STRA_T1	48	93	45	0.51	0.57	0.06	0	0	0	0	0	0	0	0
7/17/2024 13:07	66701	STRA_T1	8	12	4	1.48	0.73	-0.75	1.09	1.11	1	1	0	600	600	0
7/17/2024 13:07	66702	STRA_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/17/2024 13:08	66702	STRA_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/17/2024 13:08	66201	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 13:08	61304	EARL_T1	6	6	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
7/17/2024 13:08	66203	SISP_T2	0	0	0	0	0	0	-0.37	-0.48	2	2	0	1800	1800	0
7/17/2024 13:08	66701	STRA_T1	8	12	4	1.48	0.73	-0.75	1.09	1.11	1	1	0	600	600	0
7/17/2024 13:08	66703	STRA_T1	48	93	45	0.51	0.57	0.06	0	0	0	0	0	0	0	0
7/17/2024 13:08	61303	EARL_T1	1	0	-1	0.2	0	-0.2	-0.3	-0.14	0	0	0	0	0	0
7/17/2024 13:09	66703	STRA_T1	48	93	45	0.51	0.57	0.06	0	0	0	0	0	0	0	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:09	66702	STRA_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/17/2024 13:09	61304	EARL_T1	6	6	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
7/17/2024 13:09	61303	EARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/17/2024 13:09	66701	STRA_T1	8	12	4	1.48	0.73	-0.75	1.09	1.11	1	1	0	600	600	0
7/17/2024 13:10	61304	EARL_T1	6	6	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
7/17/2024 13:10	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
7/17/2024 13:10	61303	EARL_T1	1	0	-1	0.2	0	-0.2	-0.3	-0.14	0	0	0	0	0	0
7/17/2024 13:11	61304	EARL_T1	6	6	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
7/17/2024 13:11	15001	BLMO_T1	13	29	16	0.42	0.4	-0.02	0	0	0	0	0	0	0	0
7/17/2024 13:11	61303	EARL_T1	1	0	-1	0.2	0	-0.2	-0.3	-0.14	0	0	0	0	0	0
7/17/2024 13:12	67605	WARW_T1	0	1	1	0	0.6	0.6	-0.74	-0.74	0	0	0	0	0	0
7/17/2024 13:12	56803	BENV_T1	2	10	8	0.6	1.4	0.8	0	0	0	0	0	0	0	0
7/17/2024 13:12	56801	BENV_T1	4	5	1	0.4	0.53	0.13	0.08	0.07	1	1	0	600	600	0
7/17/2024 13:13	56801	BENV_T1	4	5	1	0.4	0.53	0.13	0.15	0.14	2	2	0	1200	1200	0
7/17/2024 13:13	56803	BENV_T1	2	10	8	0.6	1.4	0.8	0	0	0	0	0	0	0	0
7/17/2024 13:13	67605	WARW_T1	0	1	1	0	0.6	0.6	-0.74	-0.74	0	0	0	0	0	0
7/17/2024 13:13	67604	WARW_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
7/17/2024 13:14	56801	BENV_T1	4	5	1	0.4	0.53	0.13	0.15	0.14	2	2	0	1200	1200	0
7/17/2024 13:14	56803	BENV_T1	2	10	8	0.6	1.4	0.8	0	0	0	0	0	0	0	0
7/17/2024 13:15	56801	BENV_T1	3	4	1	0.53	0.3	-0.23	0.15	0.14	2	2	0	1200	1200	0
7/17/2024 13:15	64204	KINZ_T1	504	903	399	0.82	1.38	0.56	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/17/2024 13:15	56803	BENV_T1	3	10	7	1.4	0.75	-0.65	0	0	0	0	0	0	0	0
7/17/2024 13:15	64201	KINZ_T1	954	1200	246	1.33	1.82	0.49	-0.56	-0.56	5	5	0	3300	3300	0
7/17/2024 13:15	64203	KINZ_T1	960	1325	365	0.87	1.41	0.54	0	0	0	0	0	0	0	0
7/17/2024 13:15	60201	ATGL_T2	243	260	17	2.59	3.21	0.62	0.67	0.61	0	0	0	0	0	0
7/17/2024 13:15	64202	KINZ_T1	74	121	47	1.41	1.7	0.29	0	0	0	0	0	0	0	0
7/17/2024 13:16	64202	KINZ_T1	74	121	47	1.41	1.7	0.29	0	0	0	0	0	0	0	0
7/17/2024 13:16	56803	BENV_T1	3	10	7	1.4	0.75	-0.65	0	0	0	0	0	0	0	0
7/17/2024 13:16	57001	WHHI_T2	6	2	-4	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/17/2024 13:16	64204	KINZ_T1	504	903	399	0.82	1.38	0.56	0	0	0	0	0	0	0	0
7/17/2024 13:16	57003	WHHI_T2	14	14	0	2.94	2.76	-0.18	0	0	0	0	0	0	0	0
7/17/2024 13:16	56801	BENV_T1	3	4	1	0.53	0.3	-0.23	0.08	0.07	1	1	0	600	600	0
7/17/2024 13:16	57004	WHHI_T2	1	1	0	3.6	1.7	-1.9	0	0.01	0	0	0	0	0	0
7/17/2024 13:16	64201	KINZ_T1	954	1200	246	1.33	1.82	0.49	-0.56	-0.56	5	5	0	3300	3300	0
7/17/2024 13:16	64203	KINZ_T1	960	1325	365	0.87	1.41	0.54	0	0	0	0	0	0	0	0
7/17/2024 13:17	64202	KINZ_T1	74	121	47	1.41	1.7	0.29	0	0	0	0	0	0	0	0
7/17/2024 13:17	64204	KINZ_T1	504	903	399	0.82	1.38	0.56	0	0	0	0	0	0	0	0
7/17/2024 13:17	64203	KINZ_T1	960	1325	365	0.87	1.41	0.54	0.74	0.78	3	3	0	2100	2100	0
7/17/2024 13:17	64201	KINZ_T1	954	1200	246	1.33	1.82	0.49	0	0	0	0	0	0	0	0
7/17/2024 13:19	52004	LING_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
7/17/2024 13:19	52006	LING_T2	6	7	1	2.08	2.18	0.1	0	0	0	0	0	0	0	0
7/17/2024 13:19	63501	HEID_TBK1-2	0	0	0	0	0	0	0.47	0.47	1	1	0	900	900	0
7/17/2024 13:19	55002	NEWP_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
7/17/2024 13:19	55001	NEWP_T1	2	5	3	0.9	1.4	0.5	0	0	0	0	0	0	0	0
7/17/2024 13:19	52002	LING_T2	59	43	-16	0.42	0.33	-0.09	0	0	0	0	0	0	0	0
7/17/2024 13:20	55002	NEWP_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
7/17/2024 13:20	52004	LING_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
7/17/2024 13:20	52006	LING_T2	6	7	1	2.08	2.18	0.1	0	0	0	0	0	0	0	0
7/17/2024 13:20	52002	LING_T2	59	43	-16	0.42	0.33	-0.09	0	0	0	0	0	0	0	0
7/17/2024 13:20	48303	ORWI_T2	1	5	4	0.1	0.58	0.48	0	0	0	0	0	0	0	0
7/17/2024 13:20	55001	NEWP_T1	2	5	3	0.9	1.4	0.5	0	0	0	0	0	0	0	0
7/17/2024 13:20	48302	ORWI_T2	124	175	51	0.7	0.88	0.18	0.19	0.14	0	0	0	0	0	0
7/17/2024 13:21	64203	KINZ_T1	960	1325	365	0.87	1.41	0.54	0	0	0	0	0	0	0	0
7/17/2024 13:21	55001	NEWP_T1	2	5	3	0.9	1.4	0.5	0	0	0	0	0	0	0	0
7/17/2024 13:21	64204	KINZ_T1	504	903	399	0.82	1.38	0.56	0	0	0	0	0	0	0	0
7/17/2024 13:21	55002	NEWP_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
7/17/2024 13:21	64202	KINZ_T1	74	121	47	1.41	1.7	0.29	0	0	0	0	0	0	0	0
7/17/2024 13:21	64201	KINZ_T1	954	1200	246	1.33	1.82	0.49	-0.56	-0.55	5	5	0	3300	3300	0
7/17/2024 13:22	48302	ORWI_T2	124	175	51	0.7	0.88	0.18	0.14	0.17	0	0	0	0	0	0
7/17/2024 13:22	48303	ORWI_T2	1	5	4	0.1	0.58	0.48	0	0	0	0	0	0	0	0
7/17/2024 13:24	60803	BUCK_T1	0	0	0	0	0	0	-0.67	-0.69	1	1	0	600	600	0
7/17/2024 13:26	61101	BERK_T5	10	11	1	1.07	0.13	-0.94	0	0	0	0	0	0	0	0
7/17/2024 13:26	29401	BELT_T1	23	26	3	0.4	0.61	0.21	0	0	1	1	0	900	900	0
7/17/2024 13:26	54506	ENOL_T2	0	0	0	0	0	0	0.14	0.13	1	1	0	600	600	0
7/17/2024 13:26	61102	BERK_T5	1	1	0	0.4	0	-0.4	-0.44	-0.36	2	2	0	1800	1800	0
7/17/2024 13:26	29402	BELT_T1	1	7	6	8.2	1.67	-6.53	0	0	0	0	0	0	0	0
7/17/2024 13:27	15001	BLMO_T1	19	28	9	0.41	0.34	-0.07	0	0	0	0	0	0	0	0
7/17/2024 13:28	51603	DUKE_T1	0	0	0	0	0	0	-0.55	-0.55	1	1	0	900	900	0
7/17/2024 13:30	54505	ENOL_T2	0	0	0	0	0	0	-0.4	-0.42	1	1	0	600	600	0
7/17/2024 13:30	54506	ENOL_T2	0	0	0	0	0	0	0.14	0.13	1	1	0	600	600	0
7/17/2024 13:30	54502	ENOL_T2	1	1	0	8.7	9.9	1.2	0	0	0	0	0	0	0	0
7/17/2024 13:31	12701	MACU_T1	2	11	9	0.15	0.33	0.18	-0.46	-0.46	1	1	0	1200	1200	0
7/17/2024 13:31	64201	KINZ_T1	1192	1199	7	1.85	1.96	0.11	0	0	0	0	0	0	0	0
7/17/2024 13:31	61301	EARL_T1	0	0	0	0	0	0	-1.1	-1.06	2	2	0	1800	1800	0
7/17/2024 13:31	52001	LING_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 13:31	64202	KINZ_T1	103	123	20	1.7	1.77	0.07	0	0	0	0	0	0	0	0
7/17/2024 13:31	12704	MACU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 13:31	64203	KINZ_T1	1266	1329	63	1.41	1.7	0.29	0.78	1.05	3	3	0	2100	2100	0
7/17/2024 13:31	64204	KINZ_T1	761	908	147	1.38	1.53	0.15	0	0	0	0	0	0	0	0
7/17/2024 13:31	61304	EARL_T1	6	6	0	1.18	0	-1.18	0	0	0	0	0	0	0	0
7/17/2024 13:31	52003	LING_T1	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 13:32	64204	KINZ_T1	761	908	147	1.38	1.53	0.15	0	0	0	0	0	0	0	0
7/17/2024 13:32	64202	KINZ_T1	103	123	20	1.7	1.77	0.07	0	0	0	0	0	0	0	0
7/17/2024 13:32	64203	KINZ_T1	1266	1329	63	1.41	1.7	0.29	0.78	1.05	3	3	0	2100	2100	0
7/17/2024 13:32	61304	EARL_T1	6	6	0	1.18	0	-1.18	0	0	0	0	0	0	0	0
7/17/2024 13:32	64201	KINZ_T1	1192	1199	7	1.85	1.96	0.11	0	0	0	0	0	0	0	0
7/17/2024 13:32	26401	INOR_T1	116	124	8	0.82	0.91	0.09	1.75	1.8	0	0	0	0	0	0
7/17/2024 13:32	61301	EARL_T1	0	0	0	0	0	0	-1.1	-1.06	2	2	0	1800	1800	0
7/17/2024 13:32	26402	INOR_T1	164	173	9	0.93	0.98	0.05	0	0	0	0	0	0	0	0
7/17/2024 13:33	48301	ORWI_T1	315	371	56	0.73	0.66	-0.07	1.28	1.2	0	0	0	0	0	0
7/17/2024 13:35	52004	LING_T2	0	0	0	0	0	0	0.54	0.6	0	0	0	0	0	0
7/17/2024 13:35	52006	LING_T2	7	6	-1	2.16	1.98	-0.18	0	0	0	0	0	0	0	0
7/17/2024 13:35	52002	LING_T2	43	3	-40	0.56	0	-0.56	0	0	0	0	0	0	0	0
7/17/2024 13:36	66703	STRA_T1	92	90	-2	0.53	0.5	-0.03	0.25	0.35	0	0	0	0	0	0
7/17/2024 13:36	66701	STRA_T1	12	14	2	0.95	0.52	-0.43	0	0	0	0	0	0	0	0
7/17/2024 13:36	66702	STRA_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/17/2024 13:37	48302	ORWI_T2	156	196	40	0.87	1.01	0.14	0	0	0	0	0	0	0	0
7/17/2024 13:37	48303	ORWI_T2	5	5	0	0.58	1.1	0.52	0.95	0.97	0	0	0	0	0	0
7/17/2024 13:37	66701	STRA_T1	12	14	2	0.95	0.52	-0.43	0	0	0	0	0	0	0	0
7/17/2024 13:37	66702	STRA_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/17/2024 13:37	66703	STRA_T1	92	90	-2	0.53	0.5	-0.03	0.25	0.35	0	0	0	0	0	0
7/17/2024 13:40	65205	PRIN_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
7/17/2024 13:41	12704	MACU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 13:41	12701	MACU_T1	2	11	9	0.15	0.33	0.18	-0.46	-0.44	1	1	0	1200	1200	0
7/17/2024 13:47	57104	SPHI_T2	0	0	0	0	0	0	-1.51	-1.56	1	1	0	900	900	0
7/17/2024 13:47	57101	SPHI_T2	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
7/17/2024 13:47	57106	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/17/2024 13:48	46203	DANV_T2	1	6	5	0.1	0.18	0.08	-3.87	-3.95	0	0	0	0	0	0
7/17/2024 13:48	48302	ORWI_T2	171	191	20	1.05	0.8	-0.25	0.17	0.18	0	0	0	0	0	0
7/17/2024 13:48	46205	DANV_T2	6	3	-3	0.83	0.87	0.04	0	0	0	0	0	0	0	0
7/17/2024 13:48	46206	DANV_T2	241	224	-17	1.22	1.19	-0.03	0	0	0	0	0	0	0	0
7/17/2024 13:48	48303	ORWI_T2	5	4	-1	0.92	0.75	-0.17	0	0	0	0	0	0	0	0
7/17/2024 13:48	46204	DANV_T2	192	201	9	0.95	0.56	-0.39	0	0	0	0	0	0	0	0
7/17/2024 13:50	41902	REED_T1	14	19	5	0.61	0.46	-0.15	0	0	0	0	0	0	0	0
7/17/2024 13:50	41903	REED_T1	8	6	-2	1.53	0.75	-0.78	0	0	0	0	0	0	0	0
7/17/2024 13:50	41901	REED_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/17/2024 13:51	46203	DANV_T2	1	6	5	0.1	0.18	0.08	-1.98	-1.98	0	0	0	0	0	0
7/17/2024 13:51	46205	DANV_T2	6	3	-3	0.83	0.87	0.04	0	0	0	0	0	0	0	0
7/17/2024 13:51	46206	DANV_T2	241	224	-17	1.22	1.19	-0.03	0	0	0	0	0	0	0	0
7/17/2024 13:51	46204	DANV_T2	192	201	9	0.95	0.56	-0.39	0	0	0	0	0	0	0	0
7/17/2024 13:51	15604	NSTR_T1	1	1	0	0.7	0.3	-0.4	1.08	1.08	0	0	0	0	0	0
7/17/2024 13:52	46206	DANV_T2	241	224	-17	1.22	1.19	-0.03	0	0	0	0	0	0	0	0
7/17/2024 13:52	46203	DANV_T2	1	6	5	0.1	0.18	0.08	-1.98	-1.98	0	0	0	0	0	0
7/17/2024 13:52	46205	DANV_T2	6	3	-3	0.83	0.87	0.04	0	0	0	0	0	0	0	0
7/17/2024 13:52	46204	DANV_T2	192	201	9	0.95	0.56	-0.39	0	0	0	0	0	0	0	0
7/17/2024 13:53	66505	SMAN_T2	28	6	-22	0.38	0.6	0.22	0	0	0	0	0	0	0	0
7/17/2024 13:53	66504	SMAN_T2	0	1	1	0	0	0	-0.05	0.01	0	0	0	0	0	0
7/17/2024 13:56	60701	BREC_T1	96	101	5	0.63	0.96	0.33	0.17	0.18	2	2	0	1200	1200	0
7/17/2024 13:57	56801	BENV_T1	2	10	8	0.8	0.3	-0.5	0.13	0.14	1	1	0	600	600	0
7/17/2024 13:57	56803	BENV_T1	4	3	-1	0.75	0.45	-0.3	0	0	0	0	0	0	0	0
7/17/2024 13:59	60901	DONG_T2	18	9	-9	0.83	0.2	-0.63	0	0	0	0	0	0	0	0
7/17/2024 13:59	60902	DONG_T2	1	1	0	0.1	0	-0.1	1.32	1.34	0	0	0	0	0	0
7/17/2024 14:01	41302	FISH_T2	19	18	-1	3.47	3.25	-0.22	0	0	0	0	0	0	0	0
7/17/2024 14:01	41304	FISH_T2	2	1	-1	0.2	0	-0.2	0.24	0.18	0	0	0	0	0	0
7/17/2024 14:02	26803	JAFR_T1	0	0	0	0	0	0	0.31	0.33	1	1	0	900	900	0
7/17/2024 14:02	26802	JAFR_T1	0	29	29	0	0.11	0.11	0	0	0	0	0	0	0	0
7/17/2024 14:02	12701	MACU_T1	8	11	3	0.33	0.3	-0.03	-0.44	-0.43	1	1	0	1200	1200	0
7/17/2024 14:02	41302	FISH_T2	19	18	-1	3.47	3.25	-0.22	0	0	0	0	0	0	0	0
7/17/2024 14:02	41304	FISH_T2	2	1	-1	0.2	0	-0.2	0.24	0.18	0	0	0	0	0	0
7/17/2024 14:03	52403	GRPA_T2	28	215	187	0.76	0.72	-0.04	0	0	0	0	0	0	0	0
7/17/2024 14:03	52401	GRPA_T2	18	61	43	0.44	0.55	0.11	-0.01	-0.02	0	0	0	0	0	0
7/17/2024 14:03	52402	GRPA_T2	15	58	43	0.58	0.58	0	0	0	0	0	0	0	0	0
7/17/2024 14:03	16402	MOPO_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/17/2024 14:03	16406	MOPO_T1	0	0	0	0	0	0	-0.6	-0.54	2	2	0	2100	2100	0
7/17/2024 14:03	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 14:04	48301	ORWI_T1	304	216	-88	0.67	0.48	-0.19	1.16	1.07	0	0	0	0	0	0
7/17/2024 14:04	13105	NHAM_T2	84	95	11	0.93	0.86	-0.07	-1.32	-1.33	1	1	0	1200	1200	0
7/17/2024 14:04	45801	HEGI_T1	0	0	0	0	0	0	0.25	0.24	1	1	0	900	900	0
7/17/2024 14:04	13102	NHAM_T2	3	2	-1	0.47	0	-0.47	0	0	0	0	0	0	0	0
7/17/2024 14:04	13103	NHAM_T2	6	9	3	0.57	1.1	0.53	0	0	0	0	0	0	0	0
7/17/2024 14:06	66504	SMAN_T2	0	0	0	0	0	0	0.03	-0.06	0	0	0	0	0	0
7/17/2024 14:06	14402	SSLA_T1	4	3	-1	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
7/17/2024 14:06	14401	SSLA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/17/2024 14:06	66505	SMAN_T2	4	4	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
7/17/2024 14:06	14404	SSLA_T1	20	28	8	1.09	1.41	0.32	0	0	0	0	0	0	0	0
7/17/2024 14:06	14403	SSLA_T1	14	11	-3	0.56	0.74	0.18	1.4	1.45	1	1	0	600	600	0
7/17/2024 14:10	64101	REFR_T1	4	8	4	0.2	0.43	0.23	0.02	0.06	0	0	0	0	0	0
7/17/2024 14:12	11405	FARM_T1	10	25	15	0.78	0.97	0.19	0	0	0	0	0	0	0	0
7/17/2024 14:12	11402	FARM_T1	11	14	3	0.79	0.55	-0.24	0	0	0	0	0	0	0	0
7/17/2024 14:12	11406	FARM_T1	11	10	-1	1.11	0.7	-0.41	0	-0.01	0	0	0	0	0	0
7/17/2024 14:12	11404	FARM_T1	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
7/17/2024 14:14	64203	KINZ_T1	1314	1254	-60	1.76	0.98	-0.78	1.09	0.73	3	3	0	2100	2100	0
7/17/2024 14:14	63304	GREE_T1	0	0	0	0	0	0	-1.84	-1.72	0	0	0	0	0	0
7/17/2024 14:14	64202	KINZ_T1	119	105	-14	1.78	0.41	-1.37	0	0	0	0	0	0	0	0
7/17/2024 14:14	64201	KINZ_T1	1192	1183	-9	2.01	0.63	-1.38	0	0	0	0	0	0	0	0
7/17/2024 14:14	64204	KINZ_T1	821	690	-131	1.55	0.73	-0.82	0	0	0	0	0	0	0	0
7/17/2024 14:14	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.11	2	2	0	1800	1800	0
7/17/2024 14:15	64202	KINZ_T1	105	17	-88	1.65	0	-1.65	0	0	0	0	0	0	0	0
7/17/2024 14:15	64204	KINZ_T1	690	8	-682	1.06	1.1	0.04	0	0	0	0	0	0	0	0
7/17/2024 14:15	63501	HEID_TBK1-2	0	0	0	0	0	0	0.39	0.46	1	1	0	900	900	0
7/17/2024 14:15	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.11	2	2	0	1800	1800	0
7/17/2024 14:15	64201	KINZ_T1	1183	46	-1137	1.75	0	-1.75	0	0	0	0	0	0	0	0
7/17/2024 14:15	64203	KINZ_T1	1253	18	-1235	1.22	1.13	-0.09	1.09	0.73	3	3	0	2100	2100	0
7/17/2024 14:17	63304	GREE_T1	0	0	0	0	0	0	-1.84	-1.72	0	0	0	0	0	0
7/17/2024 14:18	55002	NEWP_T1	0	1	1	0	1.5	1.5	0.21	0.16	0	0	0	0	0	0
7/17/2024 14:18	55001	NEWP_T1	1	1	0	3.6	2.1	-1.5	0	0	0	0	0	0	0	0
7/17/2024 14:19	52002	LING_T2	0	0	0	0	0	0	-0.28	-0.29	1	1	0	900	900	0
7/17/2024 14:19	46101	MACI_T2	0	0	0	0	0	0	-0.81	-0.79	2	2	0	2400	2400	0
7/17/2024 14:19	52006	LING_T2	7	8	1	2.64	2.2	-0.44	0	0	0	0	0	0	0	0
7/17/2024 14:21	47103	MARL_T2	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
7/17/2024 14:22	55001	NEWP_T1	1	1	0	3.6	2.1	-1.5	0	0	0	0	0	0	0	0
7/17/2024 14:22	55002	NEWP_T1	0	1	1	0	1.5	1.5	0.16	0.2	0	0	0	0	0	0
7/17/2024 14:24	24902	WHHA_T1	2	3	1	1	0.4	-0.6	0	0	0	0	0	0	0	0
7/17/2024 14:24	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/17/2024 14:24	24901	WHHA_T1	1	1	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
7/17/2024 14:27	41303	FISH_T1	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
7/17/2024 14:27	41301	FISH_T1	3	3	0	0.73	0.8	0.07	-0.24	-0.24	0	0	0	0	0	0
7/17/2024 14:29	41301	FISH_T1	3	3	0	0.73	0.8	0.07	0	0	0	0	0	0	0	0
7/17/2024 14:29	29402	BELT_T1	4	21	17	2.5	0.71	-1.79	0	0	0	0	0	0	0	0
7/17/2024 14:29	29401	BELT_T1	24	30	6	0.64	0.67	0.03	0	0	0	0	0	0	0	0
7/17/2024 14:29	41303	FISH_T1	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
7/17/2024 14:30	41303	FISH_T1	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
7/17/2024 14:30	24901	WHHA_T1	1	1	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
7/17/2024 14:30	61102	BERK_T5	0	505	505	0	8.71	8.71	0	0	0	0	0	0	0	0
7/17/2024 14:30	41301	FISH_T1	3	3	0	0.8	0.7	-0.1	-0.24	-0.24	0	0	0	0	0	0
7/17/2024 14:30	61301	BERK_T5	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
7/17/2024 14:30	47001	HUGH_T2	3	3	0	6.9	7.5	0.6	-0.64	-0.66	1	1	0	900	900	0
7/17/2024 14:30	24902	WHHA_T1	2	4	2	0.4	0.7	0.3	0	0	0	0	0	0	0	0
7/17/2024 14:32	41301	FISH_T1	3	3	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
7/17/2024 14:32	41304	FISH_T2	1	1	0	0	0	0	0.21	0.2	0	0	0	0	0	0
7/17/2024 14:32	41303	FISH_T1	1	1	0	2	1.8	-0.2	-0.55	-0.61	0	0	0	0	0	0
7/17/2024 14:32	41302	FISH_T2	18	19	1	3.37	2.47	-0.9	0	0	0	0	0	0	0	0
7/17/2024 14:34	51004	NHAR_T1	1	5	4	7	2.47	-4.53	-2.3	-2.27	0	0	0	0	0	0
7/17/2024 14:34	47001	HUGH_T2	3	3	0	6.9	7.5	0.6	-0.64	-0.66	1	1	0	900	900	0
7/17/2024 14:34	64904	MILL_T1	0	0	0	0	0	0	-0.41	-0.36	0	0	0	0	0	0
7/17/2024 14:35	66505	SMAN_T2	1	19	18	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/17/2024 14:35	66502	SMAN_T2	0	0	0	0	0	0	-0.43	-0.36	1	1	0	900	900	0
7/17/2024 14:36	48303	ORWI_T2	4	4	0	0.95	0.25	-0.7	0	0	0	0	0	0	0	0
7/17/2024 14:36	48302	ORWI_T2	179	176	-3	1.02	1.09	0.07	0.26	0.24	0	0	0	0	0	0
7/17/2024 14:38	67605	WARW_T1	1	1	0	1	0.9	-0.1	-0.56	-0.53	0	0	0	0	0	0
7/17/2024 14:38	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 14:38	61301	EARL_T1	0	0	0	0	0	0	-1.12	-1.15	2	2	0	1800	1800	0
7/17/2024 14:39	61301	EARL_T1	0	0	0	0	0	0	-1.12	-1.15	2	2	0	1800	1800	0
7/17/2024 14:39	67605	WARW_T1	1	1	0	1	0.9	-0.1	-0.56	-0.53	0	0	0	0	0	0
7/17/2024 14:39	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 14:40	64204	KINZ_T1	8	1	-7	0.73	0.2	-0.53	0	0	0	0	0	0	0	0
7/17/2024 14:40	64203	KINZ_T1	18	4	-14	0.98	1.65	0.67	0	0	0	0	0	0	0	0
7/17/2024 14:40	24902	WHHA_T1	2	4	2	0.4	0.7	0.3	0	0	0	0	0	0	0	0
7/17/2024 14:40	29402	BELT_T1	10	21	11	1.26	0.67	-0.59	0	0	0	0	0	0	0	0
7/17/2024 14:40	64202	KINZ_T1	17	0	-17	0.41	0	-0.41	0	0	0	0	0	0	0	0
7/17/2024 14:40	64201	KINZ_T1	46	0	-46	0.63	0	-0.63	-1.34	-1.37	5	5	0	3300	3300	0
7/17/2024 14:40	29401	BELT_T1	24	38	14	0.61	0.68	0.07	0	0	1	1	0	900	900	0
7/17/2024 14:40	24901	WHHA_T1	1	1	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
7/17/2024 14:42	24102	EHAZ_T1	1	3	2	1.2	1.5	0.3	0	0	0	0	0	0	0	0
7/17/2024 14:42	24105	EHAZ_T1	5	5	0	6	6.08	0.08	-1.69	-1.66	1	1	0	1200	1200	0
7/17/2024 14:42	24101	EHAZ_T1	52	107	55	1.81	1.53	-0.28	0	0	0	0	0	0	0	0
7/17/2024 14:44	13904	SEID_T1	17	42	25	0.49	1.02	0.53	-3.04	-0.7	0	0	0	0	0	0
7/17/2024 14:44	13902	SEID_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/17/2024 14:44	13903	SEID_T1	65	59	-6	1.09	0.88	-0.21	0	0	0	0	0	0	0	0
7/17/2024 14:44	20601	GRWO_T2	224	123	-101	0.94	0.98	0.04	-0.03	-0.29	1	1	0	1200	1200	0
7/17/2024 14:45	13903	SEID_T1	59	27	-32	1.04	0.93	-0.11	0	0	0	0	0	0	0	0
7/17/2024 14:45	52402	GRPA_T2	11	25	14	0.63	0.51	-0.12	0	0	0	0	0	0	0	0
7/17/2024 14:45	52401	GRPA_T2	61	49	-12	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/17/2024 14:45	11502	FREE_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/17/2024 14:45	52404	GRPA_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
7/17/2024 14:45	13904	SEID_T1	25	43	18	1.13	1.37	0.24	-1.52	-0.35	0	0	0	0	0	0
7/17/2024 14:45	11504	FREE_T1	29	35	6	0.71	0.57	-0.14	-1.03	-1.02	2	2	0	2100	2100	0
7/17/2024 14:45	52403	GRPA_T2	185	152	-33	1.11	0.77	-0.34	0.38	0.39	0	0	0	0	0	0
7/17/2024 14:45	11505	FREE_T1	25	11	-14	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
7/17/2024 14:46	52002	LING_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 14:46	52004	LING_T2	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
7/17/2024 14:46	24102	EHAZ_T1	2	2	0	0.85	1.45	0.6	-0.15	-0.18	0	0	0	0	0	0
7/17/2024 14:46	52006	LING_T2	8	7	-1	1.98	1.53	-0.45	0	0	0	0	0	0	0	0
7/17/2024 14:46	24101	EHAZ_T1	103	67	-36	1.43	1.01	-0.42	0	0	0	0	0	0	0	0
7/17/2024 14:46	24105	EHAZ_T1	5	5	0	6.08	5.93	-0.15	0	0	0	0	0	0	0	0
7/17/2024 14:48	12402	MILF_T1	143	146	3	1.83	1.42	-0.41	0.72	0.73	1	1	0	1200	1200	0
7/17/2024 14:48	65501	MOJO_T1	0	0	0	0	0	0	-1.49	-1.39	2	2	0	1800	1800	0
7/17/2024 14:48	12403	MILF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 14:50	67303	WYOM_T2	0	0	0	0	0	0	0.51	0.57	0	0	0	0	0	0
7/17/2024 14:51	47402	PENS_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/17/2024 14:51	47401	PENS_T1	10	7	-3	0.59	0.75	0.16	0.76	0.66	0	0	0	0	0	0
7/17/2024 14:51	47403	PENS_T1	3	0	-3	0.53	0	-0.53	0	0	0	0	0	0	0	0
7/17/2024 14:55	49804	UNIV_T1	2	1	-1	1.25	1.9	0.65	0	0	0	0	0	0	0	0
7/17/2024 14:55	49803	UNIV_T1	0	0	0	0	0	0	-1.38	-1.36	0	0	0	0	0	0
7/17/2024 14:56	20402	ASHF_T2	32	46	14	0.91	1.08	0.17	0	0	0	0	0	0	0	0
7/17/2024 14:56	20403	ASHF_T2	15	38	23	0.52	0.4	-0.12	0	0	0	0	0	0	0	0
7/17/2024 14:56	20401	ASHF_T2	8	9	1	1.13	1.65	0.52	0.41	0.4	1	1	0	600	600	0
7/17/2024 14:57	60101	COCA_T1	1	2	1	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
7/17/2024 14:57	64204	KINZ_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/17/2024 14:57	64203	KINZ_T1	3	3	0	1.13	1.8	0.67	0.58	0.57	3	3	0	2100	2100	0
7/17/2024 14:57	60102	COCA_T1	0	0	0	0	0	0	-0.22	-0.4	3	3	0	2100	2100	0
7/17/2024 14:58	64204	KINZ_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/17/2024 14:58	64203	KINZ_T1	3	3	0	1.13	1.8	0.67	0.58	0.57	3	3	0	2100	2100	0
7/17/2024 15:00	64802	MONE_T2	1	1	0	0.1	0.5	0.4	0.07	0.08	0	0	0	0	0	0
7/17/2024 15:00	64801	MONE_T2	1	9	8	1.5	1.6	0.1	0	0	0	0	0	0	0	0
7/17/2024 15:00	61102	BERK_T5	503	0	-503	8.53	0	-8.53	0.71	1.31	1	1	0	900	900	0
7/17/2024 15:01	53802	MBRG_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
7/17/2024 15:01	50502	MECH_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/17/2024 15:02	61102	BERK_T5	503	0	-503	8.53	0	-8.53	1.42	2.61	2	2	0	1800	1800	0
7/17/2024 15:02	40101	HUNT_T2	8	27	19	0.29	0.43	0.14	-1.22	-1.13	0	0	0	0	0	0
7/17/2024 15:03	57203	ROSS_T1	0	0	0	0	0	0	-0.63	-0.58	0	0	0	0	0	0
7/17/2024 15:03	13606	RICH_T2	71	10	-61	0.86	1.71	0.85	0.5	0.14	0	0	0	0	0	0
7/17/2024 15:03	13601	RICH_T2	11	0	-11	0.54	0	-0.54	0	0	0	0	0	0	0	0
7/17/2024 15:04	57403	SPAN_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/17/2024 15:04	57401	SPAN_T1	6	14	8	1.12	1.1	-0.02	-0.48	-0.99	1	2	1	600	1500	900
7/17/2024 15:07	47403	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/17/2024 15:07	47402	PENS_T1	3	3	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/17/2024 15:07	14403	SSLA_T1	9	6	-3	1.03	1.05	0.02	1.44	1.51	1	1	0	600	600	0
7/17/2024 15:07	61102	BERK_T5	503	0	-503	8.53	0	-8.53	1.31	0.81	1	1	0	900	900	0
7/17/2024 15:07	57401	SPAN_T1	6	14	8	1.12	1.1	-0.02	-0.99	-1.01	2	2	0	1500	1500	0
7/17/2024 15:07	14404	SSLA_T1	30	38	8	1.23	1.2	-0.03	0	0	0	0	0	0	0	0
7/17/2024 15:07	14401	SSLA_T1	3	3	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/17/2024 15:07	57403	SPAN_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/17/2024 15:07	14402	SSLA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 15:07	47401	PENS_T1	2	9	7	0.75	0.48	-0.27	0.66	0.62	0	0	0	0	0	0
7/17/2024 15:08	57403	SPAN_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/17/2024 15:08	14401	SSLA_T1	3	3	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/17/2024 15:08	14402	SSLA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 15:08	14403	SSLA_T1	9	6	-3	1.03	1.05	0.02	1.44	1.51	1	1	0	600	600	0
7/17/2024 15:08	57401	SPAN_T1	6	14	8	1.12	1.1	-0.02	-0.99	-1.01	2	2	0	1500	1500	0
7/17/2024 15:08	14404	SSLA_T1	30	38	8	1.23	1.2	-0.03	0	0	0	0	0	0	0	0
7/17/2024 15:09	57401	SPAN_T1	6	14	8	1.12	1.1	-0.02	-0.99	-1.01	2	2	0	1500	1500	0
7/17/2024 15:09	66901	SHIL_T2	3	5	2	0.17	0.12	-0.05	-1.62	-1.68	1	1	0	1200	1200	0
7/17/2024 15:09	57403	SPAN_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/17/2024 15:09	66902	SHIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/17/2024 15:10	66505	SMAN_T2	19	93	74	0.33	0.41	0.08	0	0	0	0	0	0	0	0
7/17/2024 15:10	66504	SMAN_T2	0	2	2	0	0.2	0.2	0.15	0.28	0	0	0	0	0	0
7/17/2024 15:10	61102	BERK_T5	503	0	-503	8.53	0	-8.53	1.31	0.81	1	1	0	900	900	0
7/17/2024 15:11	47403	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/17/2024 15:11	47401	PENS_T1	2	9	7	0.75	0.48	-0.27	0.66	0.62	0	0	0	0	0	0
7/17/2024 15:11	47402	PENS_T1	3	3	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/17/2024 15:12	29401	BELT_T1	38	39	1	0.67	0.72	0.05	0	0	1	1	0	900	900	0
7/17/2024 15:12	24901	WHHA_T1	1	1	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
7/17/2024 15:12	29402	BELT_T1	1	14	13	7.6	8.1	0.5	0	0	0	0	0	0	0	0
7/17/2024 15:12	24902	WHHA_T1	4	5	1	0.7	1.25	0.55	0	0	0	0	0	0	0	0
7/17/2024 15:13	15203	SFAR_T2	32	32	0	1.08	1.01	-0.07	0	0	0	0	0	0	0	0
7/17/2024 15:13	15204	SFAR_T2	10	12	2	0.71	0.4	-0.31	0	0	0	0	0	0	0	0
7/17/2024 15:15	61102	BERK_T5	0	0	0	0	0	0	1.31	0.81	1	1	0	900	900	0
7/17/2024 15:16	12006	HATF_T1	0	0	0	0	0	0	0.15	-0.07	3	3	0	3600	3600	0
7/17/2024 15:16	12001	HATF_T1	3	1	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/17/2024 15:18	48301	ORWI_T1	20	51	31	0.41	0.61	0.2	0.94	1.01	0	0	0	0	0	0
7/17/2024 15:19	52501	PROG_T1	0	0	0	0	0	0	-0.2	-0.15	1	1	0	300	300	0
7/17/2024 15:19	64902	MILL_T2	1	2	1	0.9	0.6	-0.3	-0.28	-0.24	1	1	0	900	900	0
7/17/2024 15:19	40101	HUNT_T2	19	33	14	0.43	0.48	0.05	-1.13	-1.16	0	0	0	0	0	0
7/17/2024 15:19	57401	SPAN_T1	6	21	15	0.95	0.72	-0.23	-0.99	-1.01	2	2	0	1500	1500	0
7/17/2024 15:19	53803	MBRG_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
7/17/2024 15:19	57403	SPAN_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/17/2024 15:22	63602	LETO_T1	0	0	0	0	0	0	-0.26	-0.34	2	2	0	1200	1200	0
7/17/2024 15:22	67602	WARW_T2	0	0	0	0	0	0	0.6	0.56	2	2	0	1500	1500	0
7/17/2024 15:25	67602	WARW_T2	0	0	0	0	0	0	0.6	0.56	2	2	0	1500	1500	0
7/17/2024 15:31	64201	KINZ_T1	0	17	17	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 15:31	64204	KINZ_T1	2	5	3	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/17/2024 15:31	64203	KINZ_T1	3	10	7	1.6	1.15	-0.45	0.62	0.35	3	3	0	2100	2100	0
7/17/2024 15:31	64202	KINZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 15:32	46602	LACR_T1	1	12	11	0.4	0.23	-0.17	-0.53	-0.53	0	0	0	0	0	0
7/17/2024 15:34	45802	HEGI_T2	17	27	10	0.4	0.45	0.05	0.61	0.69	2	2	0	1200	1200	0
7/17/2024 15:37	65604	QVIL_T2	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
7/17/2024 15:37	47403	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/17/2024 15:37	47402	PENS_T1	3	6	3	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
7/17/2024 15:37	47401	PENS_T1	6	12	6	0.38	0.48	0.1	0.69	0.61	0	0	0	0	0	0
7/17/2024 15:38	59101	WALK_T2	0	0	0	0	0	0	0.57	0.66	1	1	0	600	600	0
7/17/2024 15:38	64101	REFR_T1	16	28	12	0.31	0.38	0.07	0.05	0.08	0	0	0	0	0	0
7/17/2024 15:50	22602	KIMB_T1	38	41	3	4.19	3.56	-0.63	0.13	0.15	0	0	0	0	0	0
7/17/2024 15:51	45302	WBER_T2	3	5	2	0.27	0.35	0.08	1.82	1.8	0	0	0	0	0	0
7/17/2024 15:52	42201	SHEN_T2	0	0	0	0	0	0	0.49	0.43	1	1	0	600	600	0
7/17/2024 15:52	45302	WBER_T2	3	5	2	0.27	0.35	0.08	1.82	1.8	0	0	0	0	0	0
7/17/2024 15:52	64101	REFR_T1	9	28	19	0.42	0.43	0.01	0.08	0.13	0	0	0	0	0	0
7/17/2024 15:52	67602	WARW_T2	0	0	0	0	0	0	0.6	0.57	2	2	0	1500	1500	0
7/17/2024 15:55	60803	BUCK_T1	11	11	0	0.5	0.34	-0.16	0	0	0	0	0	0	0	0
7/17/2024 15:55	42201	SHEN_T2	0	0	0	0	0	0	0.49	0.43	1	1	0	600	600	0
7/17/2024 15:55	60801	BUCK_T1	0	0	0	0	0	0	0.08	0.08	1	1	0	600	600	0
7/17/2024 15:55	64101	REFR_T1	9	28	19	0.42	0.43	0.01	0.08	0.13	0	0	0	0	0	0
7/17/2024 15:56	42201	SHEN_T2	0	0	0	0	0	0	0.49	0.43	1	1	0	600	600	0
7/17/2024 15:57	60801	BUCK_T1	0	0	0	0	0	0	0.08	0.08	1	1	0	600	600	0
7/17/2024 15:57	60803	BUCK_T1	11	11	0	0.5	0.34	-0.16	0	0	0	0	0	0	0	0
7/17/2024 16:00	45802	HEGI_T2	17	12	-5	0.49	0.36	-0.13	0.42	0.6	2	2	0	1200	1200	0
7/17/2024 16:00	62102	ELAN_T1	0	1	1	0	1.6	1.6	0.03	0.03	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/17/2024 16:02	40101	HUNT_T2	77	162	85	0.49	0.5	0.01	-1.12	-1.1	0	0	0	0	0	0
7/17/2024 16:04	67001	STHI_T2	0	0	0	0	0	0	0.84	0.84	0	0	0	0	0	0
7/17/2024 16:05	51004	NHAR_T1	5	9	4	1.7	4	2.3	-4.5	-4.52	0	0	0	0	0	0
7/17/2024 16:05	51003	NHAR_T1	3	6	3	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/17/2024 16:06	51003	NHAR_T1	3	6	3	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/17/2024 16:06	57403	SPAN_T1	2	6	4	1.1	1.03	-0.07	0	0	0	0	0	0	0	0
7/17/2024 16:06	51004	NHAR_T1	5	9	4	1.7	4	2.3	-2.25	-2.26	0	0	0	0	0	0
7/17/2024 16:06	57401	SPAN_T1	48	75	27	0.63	0.75	0.12	-0.97	-0.96	2	2	0	1500	1500	0
7/17/2024 16:07	42201	SHEN_T2	0	0	0	0	0	0	0.43	0.45	1	1	0	600	600	0
7/17/2024 16:08	64101	REFR_T1	28	33	5	0.42	0.45	0.03	0.13	0.11	0	0	0	0	0	0
7/17/2024 16:09	20403	ASHF_T2	70	79	9	0.45	0.53	0.08	1.6	0.39	0	0	0	0	0	0
7/17/2024 16:09	20401	ASHF_T2	11	15	4	1.23	0.63	-0.6	0	0	0	0	0	0	0	0
7/17/2024 16:09	20402	ASHF_T2	62	111	49	1.2	0.92	-0.28	0	0	0	0	0	0	0	0
7/17/2024 16:10	20402	ASHF_T2	62	111	49	1.2	0.92	-0.28	0	0	0	0	0	0	0	0
7/17/2024 16:10	20403	ASHF_T2	70	79	9	0.45	0.53	0.08	1.6	0.39	0	0	0	0	0	0
7/17/2024 16:10	20401	ASHF_T2	11	15	4	1.23	0.63	-0.6	0	0	0	0	0	0	0	0
7/17/2024 16:15	58001	WCAR_T1	2	1	-1	0.25	0.1	-0.15	-0.56	-0.62	0	0	0	0	0	0
7/17/2024 16:15	58003	WCAR_T1	3	1	-2	0.33	0.7	0.37	0	0	0	0	0	0	0	0
7/17/2024 16:20	61303	EARL_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/17/2024 16:20	66504	SMAN_T2	2	4	2	0.45	0.2	-0.25	0.3	0.29	0	0	0	0	0	0
7/17/2024 16:20	66505	SMAN_T2	3	6	3	0.27	0.57	0.3	0	0	0	0	0	0	0	0
7/17/2024 16:20	61304	EARL_T1	0	0	0	0	0	0	-0.04	-0.03	1	1	0	600	600	0
7/17/2024 16:25	24902	WHHA_T1	16	51	35	0.52	0.55	0.03	0	0	0	0	0	0	0	0
7/17/2024 16:25	66504	SMAN_T2	2	4	2	0.45	0.2	-0.25	0.29	0.15	0	0	0	0	0	0
7/17/2024 16:25	61303	EARL_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/17/2024 16:25	24901	WHHA_T1	1	1	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
7/17/2024 16:25	61304	EARL_T1	0	0	0	0	0	0	-0.03	-0.12	1	1	0	600	600	0
7/17/2024 16:25	66505	SMAN_T2	3	6	3	0.27	0.57	0.3	0	0	0	0	0	0	0	0
7/17/2024 16:30	20601	GRWO_T2	341	335	-6	1.47	1.26	-0.21	0.69	0.67	0	0	0	0	0	0
7/17/2024 16:30	25404	LAHA_T2	234	382	148	0.26	0.54	0.28	0	0	0	0	0	0	0	0
7/17/2024 16:30	25402	LAHA_T2	2	80	78	0.15	0.18	0.03	0.2	-0.25	0	0	0	0	0	0
7/17/2024 16:33	64202	KINZ_T1	5	0	-5	0.48	0	-0.48	0	0	0	0	0	0	0	0
7/17/2024 16:33	64203	KINZ_T1	13	7	-6	1.26	0.75	-0.51	0	0	0	0	0	0	0	0
7/17/2024 16:33	64204	KINZ_T1	12	4	-8	0.53	0.65	0.12	0	0	0	0	0	0	0	0
7/17/2024 16:33	64201	KINZ_T1	17	1	-16	0.48	0	-0.48	-0.57	-1.77	4	5	1	2100	3300	1200
7/17/2024 16:36	21206	ECAR_T2	25	31	6	0.87	0.83	-0.04	0.55	0.57	0	0	0	0	0	0
7/17/2024 16:36	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 16:37	65802	RTWN_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
7/17/2024 16:38	67804	WLAN_T1	10	10	0	1.99	1.94	-0.05	0	0	0	0	0	0	0	0
7/17/2024 16:38	67801	WLAN_T1	41	137	96	0.7	0.58	-0.12	-0.73	-0.66	0	0	0	0	0	0
7/17/2024 16:41	58803	COCO_T1	4	12	8	0.55	0.32	-0.23	0	0	0	0	0	0	0	0
7/17/2024 16:42	58803	COCO_T1	4	12	8	0.55	0.32	-0.23	-0.07	-0.09	1	1	0	600	600	0
7/17/2024 16:45	41301	FISH_T1	2	3	1	0.7	0.93	0.23	-0.19	-0.22	0	0	0	0	0	0
7/17/2024 16:45	58803	COCO_T1	12	6	-6	0.37	0.23	-0.14	0	0	0	0	0	0	0	0
7/17/2024 16:45	41303	FISH_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
7/17/2024 16:47	41303	FISH_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
7/17/2024 16:47	41301	FISH_T1	2	3	1	0.7	0.93	0.23	-0.19	-0.22	0	0	0	0	0	0
7/17/2024 16:50	57103	SPHI_T2	0	0	0	0	0	0	0.09	0.14	1	1	0	600	600	0
7/17/2024 16:50	57106	SPHI_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
7/17/2024 16:50	57101	SPHI_T2	2	4	2	0.1	0.1	0	0	0	0	0	0	0	0	0
7/17/2024 16:52	49803	UNIV_T1	1	0	-1	0.9	0	-0.9	-1.4	-1.44	0	0	0	0	0	0
7/17/2024 16:52	49804	UNIV_T1	3	3	0	1.07	1.4	0.33	0	0	0	0	0	0	0	0
7/17/2024 16:55	46001	BERW_T1	0	2	2	0	0	0	1.71	1.64	0	0	0	0	0	0
7/17/2024 16:56	20403	ASHF_T2	20	94	74	0.64	0.71	0.07	0.41	0.51	0	0	0	0	0	0
7/17/2024 16:56	20402	ASHF_T2	40	102	62	0.85	0.95	0.1	0	0	0	0	0	0	0	0
7/17/2024 16:56	20401	ASHF_T2	2	7	5	1.4	0.58	-0.82	0	0	0	0	0	0	0	0
7/17/2024 16:57	20402	ASHF_T2	40	102	62	0.85	0.95	0.1	0	0	0	0	0	0	0	0
7/17/2024 16:57	20401	ASHF_T2	2	7	5	1.4	0.58	-0.82	0	0	0	0	0	0	0	0
7/17/2024 16:57	20403	ASHF_T2	20	94	74	0.64	0.71	0.07	0.41	0.51	0	0	0	0	0	0
7/17/2024 16:59	46001	BERW_T1	0	2	2	0	0	0	1.71	1.64	0	0	0	0	0	0
7/17/2024 16:59	40101	HUNT_T2	91	175	84	0.47	0.49	0.02	-1.16	-1.21	0	0	0	0	0	0
7/17/2024 17:08	47401	PENS_T1	6	76	70	0.6	0.54	-0.06	0.99	0.9	0	0	0	0	0	0
7/17/2024 17:08	47402	PENS_T1	3	7	4	0.3	0.43	0.13	0	0	0	0	0	0	0	0
7/17/2024 17:21	44902	SCOT_T2	1	1	0	2.1	0	-2.1	-0.28	-0.3	0	0	0	0	0	0
7/17/2024 17:22	63602	LETO_T1	0	0	0	0	0	0	-0.31	-0.36	2	2	0	1200	1200	0
7/17/2024 17:23	47401	PENS_T1	18	76	58	0.55	0.45	-0.1	0.9	0.85	0	0	0	0	0	0
7/17/2024 17:23	44902	SCOT_T2	1	1	0	2.1	0	-2.1	-0.28	-0.3	0	0	0	0	0	0
7/17/2024 17:23	47402	PENS_T1	7	3	-4	0.24	0	-0.24	0	0	0	0	0	0	0	0
7/17/2024 17:25	58001	WCAR_T1	1	4	3	0.2	0.35	0.15	0	0	0	0	0	0	0	0
7/17/2024 17:25	58003	WCAR_T1	1	1	0	0.8	1	0.2	0.71	0.67	1	1	0	600	600	0
7/17/2024 17:25	55102	WERT_T2	0	0	0	0	0	0	-0.67	-0.72	1	1	0	600	600	0
7/17/2024 17:31	12302	LANA_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/17/2024 17:31	12304	LANA_T2	72	51	-21	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
7/17/2024 17:31	12301	LANA_T2	10	7	-3	0.72	0.48	-0.24	-0.51	-0.56	1	1	0	1200	1200	0
7/17/2024 17:34	52501	PROG_T1	1	4	3	0.1	0.15	0.05	-0.16	-0.26	1	1	0	300	300	0
7/17/2024 17:34	52504	PROG_T1	1	9	8	0.1	0.16	0.06	0	0	0	0	0	0	0	0
7/17/2024 17:36	64101	REFR_T1	21	27	6	0.6	0.52	-0.08	0.16	0.16	0	0	0	0	0	0
7/17/2024 17:38	57401	SPAN_T1	16	2	-14	0.64	0	-0.64	-1.34	-1.43	2	2	0	1500	1500	0
7/17/2024 17:38	57403	SPAN_T1	6	3	-3	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/17/2024 17:46	12301	LANA_T2	7	6	-1	0.51	0.3	-0.21	0	0	0	0	0	0	0	0
7/17/2024 17:46	12302	LANA_T2	0	0	0	0	0	0	-1.45	-1.48	3	3	0	2700	2700	0
7/17/2024 17:46	12304	LANA_T2	50	43	-7	0.55	0.41	-0.14	0	0	0	0	0	0	0	0
7/17/2024 17:49	64701	LITI_T1	4	0	-4	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/17/2024 17:49	64704	LITI_T1	0	0	0	0	0	0	0.79	0.73	1	1	0	600	600	0
7/17/2024 17:51	57404	SPAN_T2	2	0	-2	0.1	0	-0.1	-0.87	-0.88	1	1	0	1200	1200	0
7/17/2024 17:52	57404	SPAN_T2	2	0	-2	0.1	0	-0.1	-0.88	-0.82	1	1	0	1200	1200	0
7/17/2024 17:55	10704	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 17:55	10702	CATA_T2	3	3	0	0.77	0.5	-0.27	0	0	0	0	0	0	0	0
7/17/2024 17:55	10701	CATA_T2	8	5	-3	0.4	0.55	0.15	0	0	0	0	0	0	0	0
7/17/2024 17:55	10705	CATA_T2	1	0	-1	1.2	0	-1.2	-0.79	-0.83	1	1	0	900	900	0
7/17/2024 17:57	64201	KINZ_T1	193	312	119	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/17/2024 17:57	10704	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 17:57	64203	KINZ_T1	3	2	-1	0.93	0	-0.93	-1.02	-1.09	3	3	0	2100	2100	0
7/17/2024 17:57	64202	KINZ_T1	26	24	-2	0.49	0.38	-0.11	0	0	0	0	0	0	0	0
7/17/2024 17:57	10701	CATA_T2	8	5	-3	0.4	0.55	0.15	0	0	0	0	0	0	0	0
7/17/2024 17:57	10705	CATA_T2	1	0	-1	1.2	0	-1.2	-0.79	-0.83	1	1	0	900	900	0
7/17/2024 17:57	10702	CATA_T2	3	3	0	0.77	0.5	-0.27	0	0	0	0	0	0	0	0
7/17/2024 17:57	64204	KINZ_T1	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
7/17/2024 17:58	22905	HARW_T1	3	10	7	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 17:58	22904	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 17:58	22903	HARW_T1	18	11	-7	0.79	0.33	-0.46	0	0	0	0	0	0	0	0
7/17/2024 17:58	22901	HARW_T1	11	15	4	0.41	0.4	-0.01	-0.09	0	1	1	0	1200	1200	0
7/17/2024 17:59	22905	HARW_T1	3	10	7	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 17:59	44801	EDAN_T2	1	9	8	0.6	0.17	-0.43	-1.04	-1.07	0	0	0	0	0	0
7/17/2024 17:59	10704	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 17:59	10701	CATA_T2	8	5	-3	0.4	0.55	0.15	0	0	0	0	0	0	0	0
7/17/2024 17:59	10705	CATA_T2	1	0	-1	1.2	0	-1.2	-0.79	-0.83	1	1	0	900	900	0
7/17/2024 17:59	22901	HARW_T1	11	15	4	0.41	0.4	-0.01	-0.09	0	1	1	0	1200	1200	0
7/17/2024 17:59	22903	HARW_T1	18	11	-7	0.79	0.33	-0.46	0	0	0	0	0	0	0	0
7/17/2024 17:59	22904	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 17:59	10702	CATA_T2	3	3	0	0.77	0.5	-0.27	0	0	0	0	0	0	0	0
7/17/2024 17:59	54501	ENOL_T2	0	0	0	0	0	0	0.25	0.26	1	1	0	600	600	0
7/17/2024 18:01	54501	ENOL_T2	0	0	0	0	0	0	0.25	0.26	1	1	0	600	600	0
7/17/2024 18:02	64903	MILL_T2	31	4	-27	0.45	0.13	-0.32	0	0	0	0	0	0	0	0
7/17/2024 18:02	64902	MILL_T2	0	1	1	0	0	0	-0.28	-0.32	1	1	0	900	900	0
7/17/2024 18:03	22903	HARW_T1	11	4	-7	0.66	0.33	-0.33	0	0	0	0	0	0	0	0
7/17/2024 18:03	22901	HARW_T1	15	5	-10	0.29	0	-0.29	-0.09	0	1	1	0	1200	1200	0
7/17/2024 18:03	22905	HARW_T1	4	6	2	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
7/17/2024 18:05	13501	MCMI_T1	0	1	1	0	0	0	0.72	0.79	0	0	0	0	0	0
7/17/2024 18:07	63804	HEMP_T1	1	4	3	6.9	3.23	-3.67	0	0	0	0	0	0	0	0
7/17/2024 18:07	57403	SPAN_T1	2	2	0	0.45	0.2	-0.25	-0.1	-0.04	0	0	0	0	0	0
7/17/2024 18:07	63803	HEMP_T1	0	0	0	0	0	0	1.22	1.2	0	0	0	0	0	0
7/17/2024 18:09	44902	SCOT_T2	1	1	0	4.2	0	-4.2	-0.37	-0.39	0	0	0	0	0	0
7/17/2024 18:11	57403	SPAN_T1	2	2	0	0.45	0.2	-0.25	-0.05	-0.02	0	0	0	0	0	0
7/17/2024 18:12	24902	WHHA_T1	80	37	-43	0.57	0.93	0.36	0.5	0.52	0	0	0	0	0	0
7/17/2024 18:12	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 18:16	11405	FARM_T1	76	71	-5	0.61	0.73	0.12	0	0	0	0	0	0	0	0
7/17/2024 18:16	11404	FARM_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
7/17/2024 18:16	11406	FARM_T1	5	5	0	0.96	0.96	0	0	0	0	0	0	0	0	0
7/17/2024 18:16	11402	FARM_T1	6	11	5	1.13	0.66	-0.47	0	0	0	0	0	0	0	0
7/17/2024 18:17	11405	FARM_T1	76	71	-5	0.61	0.73	0.12	0	0	0	0	0	0	0	0
7/17/2024 18:17	11402	FARM_T1	6	11	5	1.13	0.66	-0.47	0	0	0	0	0	0	0	0
7/17/2024 18:17	11406	FARM_T1	5	5	0	0.96	0.96	0	0	0	0	0	0	0	0	0
7/17/2024 18:17	11404	FARM_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
7/17/2024 18:17	60201	ATGL_T2	726	718	-8	2.13	1.52	-0.61	0.72	0.74	1	1	0	600	600	0
7/17/2024 18:18	50506	MECH_T1	0	0	0	0	0	0	0.28	1.13	1	0	-1	900	0	-900
7/17/2024 18:18	50501	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 18:18	50502	MECH_T1	1	1	0	1.4	0.9	-0.5	0	0	0	0	0	0	0	0
7/17/2024 18:22	29401	BELT_T1	30	41	11	0.53	0.83	0.3	0	0	1	1	0	900	900	0
7/17/2024 18:22	29402	BELT_T1	2	1	-1	3.8	8.5	4.7	0	0	0	0	0	0	0	0
7/17/2024 18:25	56503	ROCK_T2	2	1	-1	1.85	1.2	-0.65	0	0	0	0	0	0	0	0
7/17/2024 18:25	56504	ROCK_T2	19	10	-9	0.42	0.21	-0.21	0	0	0	0	0	0	0	0
7/17/2024 18:25	56501	ROCK_T2	4	5	1	1.05	0.2	-0.85	-1.9	-1.94	0	0	0	0	0	0
7/17/2024 18:35	57106	SPHI_T2	3	3	0	0.73	0.53	-0.2	0	0	0	0	0	0	0	0
7/17/2024 18:35	57103	SPHI_T2	0	0	0	0	0	0	-0.05	-0.07	1	1	0	600	600	0
7/17/2024 18:35	57101	SPHI_T2	4	6	2	0.13	0.42	0.29	0	0	0	0	0	0	0	0
7/17/2024 18:36	57103	SPHI_T2	0	0	0	0	0	0	-0.05	-0.07	1	1	0	600	600	0
7/17/2024 18:36	57106	SPHI_T2	3	3	0	0.73	0.53	-0.2	0	0	0	0	0	0	0	0
7/17/2024 18:36	57101	SPHI_T2	4	6	2	0.13	0.42	0.29	0	0	0	0	0	0	0	0
7/17/2024 18:39	66902	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/17/2024 18:39	66901	SHIL_T2	14	9	-5	0.1	0.1	0	-0.57	-0.6	1	1	0	1200	1200	0
7/17/2024 18:41	40502	CRES_T2	95	42	-53	0.94	0.6	-0.34	0.33	0.33	0	0	0	0	0	0
7/17/2024 18:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 18:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 18:43	40502	CRES_T2	95	42	-53	0.94	0.6	-0.34	0.66	0.65	0	0	0	0	0	0
7/17/2024 18:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 18:44	40502	CRES_T2	95	42	-53	0.94	0.6	-0.34	0.99	0.98	0	0	0	0	0	0
7/17/2024 18:45	40502	CRES_T2	42	27	-15	0.63	0.63	0	0.66	0.65	0	0	0	0	0	0
7/17/2024 18:45	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 18:46	58001	WCAR_T1	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
7/17/2024 18:46	58003	WCAR_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
7/17/2024 18:53	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/17/2024 18:53	59202	THOM_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/17/2024 18:58	12301	LANA_T2	2	0	-2	0.75	0	-0.75	-0.71	-0.66	1	1	0	1200	1200	0
7/17/2024 18:58	12304	LANA_T2	10	5	-5	0.57	0.35	-0.22	0	0	0	0	0	0	0	0
7/17/2024 18:59	64801	MONE_T2	2	71	69	0.55	1.3	0.75	0	0	0	0	0	0	0	0
7/17/2024 18:59	64802	MONE_T2	25	585	560	0.23	0.47	0.24	0.12	0.28	0	0	0	0	0	0
7/17/2024 19:19	64904	MILL_T1	0	0	0	0	0	0	-0.35	-0.41	0	0	0	0	0	0
7/17/2024 19:19	64901	MILL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/17/2024 20:00	50103	HARR_T3	1	1	0	0.2	0	-0.2	-0.98	-0.93	1	1	0	1200	1200	0
7/17/2024 20:00	50107	HARR_T3	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
7/17/2024 20:00	58803	COCO_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/17/2024 20:00	50201	HARR_T3	2	2	0	4.25	4.85	0.6	0	0	0	0	0	0	0	0
7/17/2024 20:00	50105	HARR_T3	6	6	0	6.28	6.05	-0.23	0	0	0	0	0	0	0	0
7/17/2024 20:01	58803	COCO_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/17/2024 20:06	46004	BERW_T2	0	0	0	0	0	0	0.74	0.7	0	0	0	0	0	0
7/17/2024 20:07	52004	LING_T2	2	2	0	2.45	2.9	0.45	0.27	0.23	0	0	0	0	0	0
7/17/2024 20:07	56802	BENV_T2	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
7/17/2024 20:08	55002	NEWP_T1	2	3	1	0.9	0.9	0	0	0	0	0	0	0	0	0
7/17/2024 20:08	55001	NEWP_T1	2	1	-1	1.1	0.1	-1	-0.32	-0.28	0	0	0	0	0	0
7/17/2024 20:11	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/17/2024 20:11	42501	ALTA_T2	0	0	0	0	0	0	-0.8	-0.75	1	1	0	600	600	0
7/17/2024 20:12	55102	WERT_T2	0	0	0	0	0	0	-0.51	-0.58	1	1	0	600	600	0
7/17/2024 20:23	56501	ROCK_T2	204	216	12	0.35	0.33	-0.02	-2.2	-2.28	0	0	0	0	0	0
7/17/2024 20:23	56504	ROCK_T2	0	2	2	0	0	0	1	0.94	0	0	0	0	0	0
7/17/2024 20:24	56501	ROCK_T2	204	216	12	0.35	0.33	-0.02	-2.2	-2.28	0	0	0	0	0	0
7/17/2024 20:24	56504	ROCK_T2	0	2	2	0	0	0	0.33	0.31	0	0	0	0	0	0
7/17/2024 20:26	56504	ROCK_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 20:26	56501	ROCK_T2	204	216	12	0.35	0.33	-0.02	-2.2	-2.28	0	0	0	0	0	0
7/17/2024 20:27	56504	ROCK_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 20:27	65503	MOJO_T2	0	0	0	0	0	0	-0.42	-0.53	1	1	0	900	900	0
7/17/2024 20:27	56501	ROCK_T2	204	216	12	0.35	0.33	-0.02	-2.2	-2.28	0	0	0	0	0	0
7/17/2024 20:29	56504	ROCK_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 20:29	56501	ROCK_T2	204	216	12	0.35	0.33	-0.02	-2.2	-2.28	0	0	0	0	0	0
7/17/2024 20:30	56504	ROCK_T2	2	0	-2	0.45	0	-0.45	0.33	0.31	0	0	0	0	0	0
7/17/2024 20:30	65503	MOJO_T2	0	0	0	0	0	0	-0.42	-0.53	1	1	0	900	900	0
7/17/2024 20:30	56501	ROCK_T2	192	201	9	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
7/17/2024 20:32	40902	JESH_T1	0	0	0	0	0	0	-0.4	-0.47	0	0	0	0	0	0
7/17/2024 20:32	40901	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/17/2024 20:34	12402	MILF_T1	0	0	0	0	0	0	-0.01	0.16	0	0	0	0	0	0
7/17/2024 20:41	66505	SMAN_T2	0	1	1	0	0	0	0.41	0.5	2	2	0	1500	1500	0
7/17/2024 20:55	52402	GRPA_T2	6	2	-4	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
7/17/2024 20:55	48301	ORWI_T1	2	2	0	1.8	2.4	0.6	0.7	0.63	0	0	0	0	0	0
7/17/2024 20:55	52403	GRPA_T2	70	42	-28	1.16	0.65	-0.51	-0.09	-0.12	0	0	0	0	0	0
7/17/2024 20:58	67605	WARW_T1	3	3	0	1.57	1.2	-0.37	-0.75	-0.83	0	0	0	0	0	0
7/17/2024 21:01	56802	BENV_T2	0	0	0	0	0	0	-0.78	-0.74	0	0	0	0	0	0
7/17/2024 21:03	47401	PENS_T1	0	0	0	0	0	0	0.39	0.29	0	0	0	0	0	0
7/17/2024 21:09	46206	DANV_T2	1	3	2	1.1	0.65	-0.45	2.05	2.09	2	2	0	2100	2100	0
7/17/2024 21:10	55101	WERT_T1	0	0	0	0	0	0	-2.96	-3.14	6	6	0	4800	4800	0
7/17/2024 21:24	12304	LANA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 21:24	12302	LANA_T2	0	0	0	0	0	0	-2.02	-2.05	3	3	0	2700	2700	0
7/17/2024 21:24	16302	ALPA_T2	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
7/17/2024 21:25	60801	BUCK_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
7/17/2024 21:25	60803	BUCK_T1	14	15	1	0.3	0.44	0.14	-0.25	-0.26	1	1	0	600	600	0
7/17/2024 21:26	16302	ALPA_T2	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
7/17/2024 21:26	12304	LANA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 21:26	12301	LANA_T2	0	0	0	0	0	0	-0.8	-0.82	1	1	0	1200	1200	0
7/17/2024 21:27	16302	ALPA_T2	0	0	0	0	0	0	-0.05	-0.12	0	0	0	0	0	0
7/17/2024 21:31	13606	RICH_T2	1	1	0	7	7	0	1.2	1.14	0	0	0	0	0	0
7/17/2024 21:47	12006	HATF_T1	0	1	1	0	0	0	-0.23	-0.17	2	2	0	2400	2400	0
7/17/2024 21:51	11804	FRAN_T1	6	22	16	0.17	0.16	-0.01	0.5	0.49	0	0	0	0	0	0
7/17/2024 21:52	12701	MACU_T1	0	0	0	0	0	0	-0.82	-0.86	1	1	0	1200	1200	0
7/17/2024 21:54	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 21:54	47401	PENS_T1	0	0	0	0	0	0	0.42	0.21	0	0	0	0	0	0
7/17/2024 21:58	67605	WARW_T1	3	0	-3	1.33	1	-0.33	0	0	0	0	0	0	0	0
7/17/2024 21:58	21206	ECAR_T2	1	1	0	7.6	7.9	0.3	0.58	0.55	0	0	0	0	0	0
7/17/2024 21:58	67603	WARW_T1	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
7/17/2024 21:58	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:02	61801	EELI_T2	0	0	0	0	0	0	-0.27	-0.32	1	1	0	600	600	0
7/17/2024 22:02	65503	MOJO_T2	0	0	0	0	0	0	-0.62	-0.68	1	1	0	900	900	0
7/17/2024 22:04	66504	SMAN_T2	0	0	0	0	0	0	0.49	0.37	0	0	0	0	0	0
7/17/2024 22:04	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:05	67605	WARW_T1	3	31	28	1	0.63	-0.37	-0.92	-0.98	0	0	0	0	0	0
7/17/2024 22:06	64302	LINC_T2	0	0	0	0	0	0	1.37	1.38	0	0	0	0	0	0
7/17/2024 22:06	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:06	61303	EARL_T1	0	1	1	0	0.1	0.1	0.39	0.39	0	0	0	0	0	0
7/17/2024 22:06	66504	SMAN_T2	0	0	0	0	0	0	0.74	0.6	0	0	0	0	0	0
7/17/2024 22:06	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/17/2024 22:08	12301	LANA_T2	0	1	1	0	0	0	-0.87	-0.91	1	1	0	1200	1200	0
7/17/2024 22:08	40502	CRES_T2	2	6	4	0.15	0.23	0.08	-0.3	-0.38	0	0	0	0	0	0
7/17/2024 22:08	67605	WARW_T1	3	31	28	1	0.63	-0.37	-0.98	-1	0	0	0	0	0	0
7/17/2024 22:08	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:09	13904	SEID_T1	1	2	1	0.1	0.3	0.2	-0.47	-0.48	0	0	0	0	0	0
7/17/2024 22:10	48302	ORWI_T2	1	1	0	0.1	0.2	0.1	-0.6	-0.61	0	0	0	0	0	0
7/17/2024 22:10	61304	EARL_T1	0	0	0	0	0	0	-0.23	-0.32	1	1	0	600	600	0
7/17/2024 22:10	61102	BERK_T5	0	0	0	0	0	0	1.47	1.45	0	0	0	0	0	0
7/17/2024 22:10	61303	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/17/2024 22:11	40502	CRES_T2	2	6	4	0.15	0.23	0.08	-0.3	-0.38	0	0	0	0	0	0
7/17/2024 22:11	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:11	48301	ORWI_T1	2	2	0	2.85	2.9	0.05	0.65	0.67	0	0	0	0	0	0
7/17/2024 22:11	61102	BERK_T5	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
7/17/2024 22:12	15604	NSTR_T1	0	1	1	0	0.1	0.1	0.33	0.33	0	0	0	0	0	0
7/17/2024 22:12	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/17/2024 22:13	61102	BERK_T5	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
7/17/2024 22:13	25402	LAHA_T2	26	112	86	0.16	0.17	0.01	-0.64	-0.64	0	0	0	0	0	0
7/17/2024 22:13	48301	ORWI_T1	2	2	0	2.85	2.9	0.05	0.65	0.67	0	0	0	0	0	0
7/17/2024 22:13	25404	LAHA_T2	398	575	177	0.42	0.45	0.03	0	0	0	0	0	0	0	0
7/17/2024 22:14	61303	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/17/2024 22:14	13904	SEID_T1	1	2	1	0.1	0.3	0.2	-0.47	-0.48	0	0	0	0	0	0
7/17/2024 22:14	61301	EARL_T1	0	0	0	0	0	0	-0.64	-0.66	1	1	0	900	900	0
7/17/2024 22:15	61303	EARL_T1	1	1	0	0.4	0	-0.4	0.39	0.39	0	0	0	0	0	0
7/17/2024 22:15	11504	FREE_T1	0	9	9	0	0.23	0.23	-1.81	-1.7	2	2	0	2100	2100	0
7/17/2024 22:15	13501	MCMI_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
7/17/2024 22:16	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:16	67702	WERN_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:16	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:16	13503	MCMI_T2	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
7/17/2024 22:16	67703	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	2	2	0	1800	1800	0
7/17/2024 22:16	10705	CATA_T2	0	0	0	0	0	0	-1.46	-1.41	1	1	0	900	900	0
7/17/2024 22:16	46602	LACR_T1	1	1	0	0.4	0.4	0	-0.91	-0.91	0	0	0	0	0	0
7/17/2024 22:16	63803	HEMP_T1	0	0	0	0	0	0	1	0.96	0	0	0	0	0	0
7/17/2024 22:17	67201	TEHI_T1	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
7/17/2024 22:17	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/17/2024 22:17	67702	WERN_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:17	64101	REFR_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
7/17/2024 22:18	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:18	66903	SHIL_T2	12	0	-12	0.12	0	-0.12	0	0	0	0	0	0	0	0
7/17/2024 22:18	66902	SHIL_T2	21	1	-20	0.16	0.2	0.04	0	0	0	0	0	0	0	0
7/17/2024 22:18	60701	BREC_T1	0	0	0	0	0	0	-0.86	-0.87	2	2	0	1200	1200	0
7/17/2024 22:18	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:18	20401	ASHF_T2	1	2	1	0.1	0.75	0.65	0	0	0	0	0	0	0	0
7/17/2024 22:18	15203	SFAR_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/17/2024 22:18	11507	FREE_T2	4	4	0	0.7	0.65	-0.05	0.71	0.65	1	1	0	600	600	0
7/17/2024 22:18	59101	WALK_T2	0	0	0	0	0	0	-0.04	0	0	0	0	0	0	0
7/17/2024 22:18	66901	SHIL_T2	224	143	-81	0.32	0.17	-0.15	-1.01	-1.08	1	1	0	1200	1200	0
7/17/2024 22:18	20403	ASHF_T2	0	0	0	0	0	0	0.78	0.69	0	0	0	0	0	0
7/17/2024 22:19	41302	FISH_T2	17	15	-2	3.29	2.05	-1.24	0	0	0	0	0	0	0	0
7/17/2024 22:19	64202	KINZ_T1	3	2	-1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/17/2024 22:19	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/17/2024 22:19	64204	KINZ_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
7/17/2024 22:19	23201	HIRU_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
7/17/2024 22:19	41304	FISH_T2	1	1	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
7/17/2024 22:19	64201	KINZ_T1	0	0	0	0	0	0	-0.91	-0.33	4	3	-1	2100	1500	-600
7/17/2024 22:19	67702	WERN_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:20	64202	KINZ_T1	3	2	-1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/17/2024 22:20	20403	ASHF_T2	0	0	0	0	0	0	0.78	0.69	0	0	0	0	0	0
7/17/2024 22:20	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:20	64203	KINZ_T1	0	0	0	0	0	0	0.14	0.11	1	1	0	600	600	0
7/17/2024 22:20	20401	ASHF_T2	1	2	1	0.1	0.75	0.65	0	0	0	0	0	0	0	0
7/17/2024 22:20	64204	KINZ_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
7/17/2024 22:21	20401	ASHF_T2	1	2	1	0.1	0.75	0.65	0	0	0	0	0	0	0	0
7/17/2024 22:21	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:21	60801	BUCK_T1	39	36	-3	0.44	0.36	-0.08	0	0	0	0	0	0	0	0
7/17/2024 22:21	41302	FISH_T2	17	15	-2	3.29	2.05	-1.24	0	0	0	0	0	0	0	0
7/17/2024 22:21	61102	BERK_T5	0	0	0	0	0	0	1.45	1.46	0	0	0	0	0	0
7/17/2024 22:21	60803	BUCK_T1	17	18	1	0.85	0.78	-0.07	-0.31	-0.31	1	1	0	600	600	0
7/17/2024 22:21	63602	LETO_T1	0	0	0	0	0	0	-0.32	-0.49	1	1	0	600	600	0
7/17/2024 22:21	67602	WARW_T2	0	0	0	0	0	0	0.15	0.09	2	2	0	1500	1500	0
7/17/2024 22:21	20403	ASHF_T2	0	0	0	0	0	0	1.56	1.39	0	0	0	0	0	0
7/17/2024 22:21	41304	FISH_T2	1	1	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
7/17/2024 22:22	29402	BELT_T1	1	1	0	8.8	9.2	0.4	0	0	0	0	0	0	0	0
7/17/2024 22:22	14403	SSLA_T1	1	0	-1	0.2	0	-0.2	1.11	1.04	0	0	0	0	0	0
7/17/2024 22:22	64101	REFR_T1	0	0	0	0	0	0	0.82	0.78	0	0	0	0	0	0
7/17/2024 22:22	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:22	64904	MILL_T1	0	0	0	0	0	0	0.3	0.25	0	0	0	0	0	0
7/17/2024 22:22	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/17/2024 22:22	64204	KINZ_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
7/17/2024 22:22	60801	BUCK_T1	39	36	-3	0.44	0.36	-0.08	0	0	0	0	0	0	0	0
7/17/2024 22:22	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
7/17/2024 22:22	64202	KINZ_T1	3	2	-1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/17/2024 22:22	64201	KINZ_T1	0	0	0	0	0	0	-0.33	-0.39	3	3	0	1500	1500	0
7/17/2024 22:22	14404	SSLA_T1	2	2	0	1.75	2.25	0.5	0	0	0	0	0	0	0	0
7/17/2024 22:22	61102	BERK_T5	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
7/17/2024 22:22	66703	STRA_T1	2	0	-2	0.15	0	-0.15	0.19	0.17	0	0	0	0	0	0
7/17/2024 22:22	60803	BUCK_T1	17	18	1	0.85	0.78	-0.07	-0.31	-0.31	1	1	0	600	600	0
7/17/2024 22:23	64204	KINZ_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/17/2024 22:23	64201	KINZ_T1	0	0	0	0	0	0	-0.33	-0.39	3	3	0	1500	1500	0
7/17/2024 22:23	20601	GRWO_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
7/17/2024 22:23	67605	WARW_T1	3	30	27	0.43	8.03	7.6	-1	-1.1	0	0	0	0	0	0
7/17/2024 22:23	64203	KINZ_T1	0	0	0	0	0	0	0.11	0.13	1	1	0	600	600	0
7/17/2024 22:23	65001	NEFF_T2	0	0	0	0	0	0	-0.46	-0.45	1	1	0	1200	1200	0
7/17/2024 22:23	52403	GRPA_T2	8	3	-5	0.56	0.7	0.14	0	0	0	0	0	0	0	0
7/17/2024 22:23	52401	GRPA_T2	0	1	1	0	0.3	0.3	-0.22	-0.26	0	0	0	0	0	0
7/17/2024 22:23	64202	KINZ_T1	3	2	-1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/17/2024 22:23	47001	HUGH_T2	20	38	18	1.4	0.92	-0.48	-1.38	-1.41	1	1	0	900	900	0
7/17/2024 22:23	47002	HUGH_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:23	13503	MCMI_T2	0	0	0	0	0	0	0.25	0.21	0	0	0	0	0	0
7/17/2024 22:24	12801	MICK_T1	0	0	0	0	0	0	-0.65	-0.65	1	1	0	600	600	0
7/17/2024 22:24	12807	MICK_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/17/2024 22:24	60801	BUCK_T1	39	36	-3	0.44	0.36	-0.08	0.03	0	0	0	0	0	0	0
7/17/2024 22:24	40502	CRES_T2	3	8	5	0.2	0.23	0.03	-0.38	-0.39	0	0	0	0	0	0
7/17/2024 22:24	14404	SSLA_T1	2	2	0	1.75	2.25	0.5	0	0	0	0	0	0	0	0
7/17/2024 22:24	20601	GRWO_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
7/17/2024 22:24	64101	REFR_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
7/17/2024 22:24	11104	EGYP_T1	0	0	0	0	0	0	0.6	0.57	0	0	0	0	0	0
7/17/2024 22:24	41301	FISH_T1	3	2	-1	0.93	0.6	-0.33	-0.37	-0.4	0	0	0	0	0	0
7/17/2024 22:24	64202	KINZ_T1	3	2	-1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/17/2024 22:24	14403	SSLA_T1	1	0	-1	0.2	0	-0.2	1.11	1.04	0	0	0	0	0	0
7/17/2024 22:24	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:24	64204	KINZ_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
7/17/2024 22:24	64201	KINZ_T1	0	0	0	0	0	0	-0.33	-0.39	3	3	0	1500	1500	0
7/17/2024 22:24	29402	BELT_T1	1	1	0	8.8	9.2	0.4	0	0	0	0	0	0	0	0
7/17/2024 22:24	60803	BUCK_T1	17	18	1	0.85	0.78	-0.07	0	0	0	0	0	0	0	0
7/17/2024 22:24	61303	EARL_T1	1	1	0	0.4	0	-0.4	0.39	0.53	0	0	0	0	0	0
7/17/2024 22:24	10705	CATA_T2	0	0	0	0	0	0	-1.41	-1.5	1	1	0	900	900	0
7/17/2024 22:25	60801	BUCK_T1	39	36	-3	0.44	0.36	-0.08	0.03	0	0	0	0	0	0	0
7/17/2024 22:25	63305	GREE_T1	14	8	-6	0.29	0.21	-0.08	0	0	0	0	0	0	0	0
7/17/2024 22:25	66703	STRA_T1	2	0	-2	0.15	0	-0.15	0.38	0.34	0	0	0	0	0	0
7/17/2024 22:25	60803	BUCK_T1	17	18	1	0.85	0.78	-0.07	0	0	0	0	0	0	0	0
7/17/2024 22:25	63303	GREE_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:25	41301	FISH_T1	3	2	-1	0.93	0.6	-0.33	-0.37	-0.4	0	0	0	0	0	0
7/17/2024 22:25	63304	GREE_T1	0	0	0	0	0	0	-1.14	-1.22	0	0	0	0	0	0
7/17/2024 22:26	47002	HUGH_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:26	11104	EGYP_T1	0	0	0	0	0	0	0.6	0.57	0	0	0	0	0	0
7/17/2024 22:26	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:26	40302	TAMA_T3	1	2	1	0.2	0.15	-0.05	-1.06	-1.07	0	0	0	0	0	0
7/17/2024 22:26	67603	WARW_T1	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
7/17/2024 22:26	47001	HUGH_T2	20	38	18	1.4	0.92	-0.48	-1.38	-1.41	1	1	0	900	900	0
7/17/2024 22:26	40602	PIGR_T1	0	0	0	0	0	0	-1.32	-1.29	1	1	0	600	600	0
7/17/2024 22:26	29402	BELT_T1	1	1	0	8.8	9.2	0.4	0	0	0	0	0	0	0	0
7/17/2024 22:26	67605	WARW_T1	3	30	27	0.43	8.03	7.6	-1	-1.1	0	0	0	0	0	0
7/17/2024 22:27	52004	LING_T2	2	2	0	2.75	2.9	0.15	0	0	0	0	0	0	0	0
7/17/2024 22:27	61303	EARL_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/17/2024 22:27	67602	WARW_T2	0	0	0	0	0	0	0.15	0.09	2	2	0	1500	1500	0
7/17/2024 22:27	52002	LING_T2	0	0	0	0	0	0	0.57	0.54	0	0	0	0	0	0
7/17/2024 22:27	62104	ELAN_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
7/17/2024 22:27	62102	ELAN_T1	6	6	0	1.35	1.35	0	1.39	1.36	0	0	0	0	0	0
7/17/2024 22:27	64201	KINZ_T1	0	0	0	0	0	0	-0.33	-0.39	3	3	0	1500	1500	0
7/17/2024 22:27	10705	CATA_T2	0	0	0	0	0	0	-1.41	-1.5	1	1	0	900	900	0
7/17/2024 22:27	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:27	20401	ASHF_T2	1	2	1	0.1	0.75	0.65	-0.33	-0.42	1	1	0	600	600	0
7/17/2024 22:27	61304	EARL_T1	0	0	0	0	0	0	-0.32	-0.29	1	1	0	600	600	0
7/17/2024 22:27	67605	WARW_T1	3	30	27	0.43	8.03	7.6	-1	-1.1	0	0	0	0	0	0
7/17/2024 22:27	66703	STRA_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/17/2024 22:27	66701	STRA_T1	0	0	0	0	0	0	0.58	0.49	1	1	0	600	600	0
7/17/2024 22:27	21203	ECAR_T1	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
7/17/2024 22:27	64202	KINZ_T1	3	2	-1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/17/2024 22:27	64204	KINZ_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
7/17/2024 22:28	44301	BEAV_T2	0	0	0	0	0	0	-0.16	-0.07	1	1	0	600	600	0
7/17/2024 22:28	47101	MARL_T1	42	30	-12	0.88	1.19	0.31	-0.33	-0.39	0	0	0	0	0	0
7/17/2024 22:28	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:28	20601	GRWO_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
7/17/2024 22:28	46203	DANV_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
7/17/2024 22:28	64101	REFR_T1	0	0	0	0	0	0	0.82	0.78	0	0	0	0	0	0
7/17/2024 22:29	64903	MILL_T2	15	11	-4	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
7/17/2024 22:29	44301	BEAV_T2	0	0	0	0	0	0	-0.16	-0.07	1	1	0	600	600	0
7/17/2024 22:29	15604	NSTR_T1	1	1	0	0.6	0	-0.6	0.33	0.3	0	0	0	0	0	0
7/17/2024 22:29	66703	STRA_T1	2	0	-2	0.15	0	-0.15	0.19	0.17	0	0	0	0	0	0
7/17/2024 22:29	64101	REFR_T1	0	0	0	0	0	0	1.23	1.16	0	0	0	0	0	0
7/17/2024 22:29	41301	FISH_T1	3	2	-1	0.93	0.6	-0.33	0	0	0	0	0	0	0	0
7/17/2024 22:29	60201	ATGL_T2	62	45	-17	0.29	0.29	0	0.79	0.73	0	0	0	0	0	0
7/17/2024 22:29	65802	RTWN_T2	0	0	0	0	0	0	-0.54	-0.58	0	0	0	0	0	0
7/17/2024 22:29	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:29	64902	MILL_T2	0	0	0	0	0	0	-0.08	-0.13	1	1	0	900	900	0
7/17/2024 22:29	45302	WBER_T2	0	0	0	0	0	0	1.38	1.32	0	0	0	0	0	0
7/17/2024 22:29	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:30	64203	KINZ_T1	0	0	0	0	0	0	0.11	0.13	1	1	0	600	600	0
7/17/2024 22:30	43302	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:30	13503	MCMI_T2	0	0	0	0	0	0	0.25	0.21	0	0	0	0	0	0
7/17/2024 22:30	43301	WATS_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/17/2024 22:30	42201	SHEN_T2	0	0	0	0	0	0	0.03	0.03	1	1	0	600	600	0
7/17/2024 22:30	11104	EGYP_T1	0	0	0	0	0	0	0.6	0.57	0	0	0	0	0	0
7/17/2024 22:30	47401	PENS_T1	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
7/17/2024 22:30	64204	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
7/17/2024 22:30	64202	KINZ_T1	2	3	1	0.2	0.47	0.27	0	0	0	0	0	0	0	0
7/17/2024 22:30	60201	ATGL_T2	45	24	-21	0.29	0.17	-0.12	0.79	0.73	0	0	0	0	0	0
7/17/2024 22:30	57403	SPAN_T1	1	0	-1	0.3	0	-0.3	0.38	0.39	0	0	0	0	0	0
7/17/2024 22:30	43304	WATS_T2	0	2	2	0	0	0	-0.28	-0.34	0	0	0	0	0	0
7/17/2024 22:31	29402	BELT_T1	1	1	0	9.1	9.2	0.1	0	0	0	0	0	0	0	0
7/17/2024 22:31	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:31	65205	PRIN_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
7/17/2024 22:31	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/17/2024 22:32	46203	DANV_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
7/17/2024 22:32	52002	LING_T2	0	0	0	0	0	0	0.57	0.54	0	0	0	0	0	0
7/17/2024 22:32	52004	LING_T2	2	2	0	2.9	2.9	0	0	0	0	0	0	0	0	0
7/17/2024 22:32	67605	WARW_T1	3	3	0	0.63	0.7	0.07	-1	-1.1	0	0	0	0	0	0
7/17/2024 22:32	22905	HARW_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/17/2024 22:32	60201	ATGL_T2	45	24	-21	0.29	0.17	-0.12	0.79	0.73	0	0	0	0	0	0
7/17/2024 22:32	22901	HARW_T1	0	0	0	0	0	0	-0.27	-0.17	1	1	0	1200	1200	0
7/17/2024 22:32	22903	HARW_T1	7	22	15	0.34	0.67	0.33	0	0	0	0	0	0	0	0
7/17/2024 22:32	12701	MACU_T1	0	0	0	0	0	0	-0.85	-0.89	1	1	0	1200	1200	0
7/17/2024 22:33	64101	REFR_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
7/17/2024 22:33	66502	SMAN_T2	0	0	0	0	0	0	-0.79	-0.94	1	1	0	900	900	0
7/17/2024 22:33	25503	MADI_T1	45	1	-44	0.19	0.1	-0.09	-0.69	-0.7	0	0	0	0	0	0
7/17/2024 22:33	12701	MACU_T1	0	0	0	0	0	0	-0.85	-0.89	1	1	0	1200	1200	0
7/17/2024 22:33	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:33	14403	SSLA_T1	0	0	0	0	0	0	1.11	1.04	0	0	0	0	0	0
7/17/2024 22:33	14404	SSLA_T1	2	2	0	2	2.3	0.3	0	0	0	0	0	0	0	0
7/17/2024 22:34	52401	GRPA_T2	1	1	0	0.1	0.3	0.2	-0.22	-0.26	0	0	0	0	0	0
7/17/2024 22:34	60801	BUCK_T1	36	41	5	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
7/17/2024 22:34	67203	TEHI_T1	0	0	0	0	0	0	2.73	2.78	2	2	0	1500	1500	0
7/17/2024 22:34	44601	SALE_T2	0	0	0	0	0	0	0.19	0.09	0	0	0	0	0	0
7/17/2024 22:34	60803	BUCK_T1	18	16	-2	0.78	0.71	-0.07	-0.31	-0.31	1	1	0	600	600	0
7/17/2024 22:34	67201	TEHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/17/2024 22:34	46206	DANV_T2	0	0	0	0	0	0	1.76	2.07	2	2	0	2100	2100	0
7/17/2024 22:34	55408	SHER_T2	1	1	0	2.9	2.9	0	-0.94	-0.94	1	1	0	1200	1200	0
7/17/2024 22:34	47401	PENS_T1	0	0	0	0	0	0	0.3	0.37	0	0	0	0	0	0
7/17/2024 22:34	52403	GRPA_T2	2	3	1	0.7	0.7	0	0	0	0	0	0	0	0	0
7/17/2024 22:34	67402	WAKE_T2	0	0	0	0	0	0	0.43	0.33	2	2	0	1200	1200	0
7/17/2024 22:34	67401	WAKE_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/17/2024 22:34	15402	WALL_T1	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
7/17/2024 22:34	11404	FARM_T1	1	1	0	0.1	0.2	0.1	0	0	1	1	0	1200	1200	0
7/17/2024 22:34	64101	REFR_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
7/17/2024 22:35	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:35	55001	NEWP_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/17/2024 22:35	12701	MACU_T1	0	0	0	0	0	0	-0.85	-0.89	1	1	0	1200	1200	0
7/17/2024 22:35	24902	WHHA_T1	1	0	-1	0.1	0	-0.1	1.88	1.92	0	0	0	0	0	0
7/17/2024 22:35	65601	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:35	27605	PIRI_T2	10	25	15	0.31	0.72	0.41	0.85	0.83	0	0	0	0	0	0
7/17/2024 22:35	20403	ASHF_T2	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
7/17/2024 22:35	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:35	55002	NEWP_T1	3	3	0	0.67	0.5	-0.17	-0.05	-0.06	0	0	0	0	0	0
7/17/2024 22:35	52403	GRPA_T2	2	3	1	0.7	0.7	0	0	0	0	0	0	0	0	0
7/17/2024 22:35	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0.39	0.53	0	0	0	0	0	0
7/17/2024 22:35	40502	CRES_T2	6	10	4	0.23	0.26	0.03	-0.38	-0.39	0	0	0	0	0	0
7/17/2024 22:35	65604	QVIL_T2	0	0	0	0	0	0	0.84	0.8	0	0	0	0	0	0
7/17/2024 22:35	20402	ASHF_T2	6	0	-6	0.43	0	-0.43	0	0	0	0	0	0	0	0
7/17/2024 22:35	20401	ASHF_T2	2	2	0	0.35	0.85	0.5	0	0	0	0	0	0	0	0
7/17/2024 22:35	52404	GRPA_T2	0	0	0	0	0	0	0.06	0	0	0	0	0	0	0
7/17/2024 22:35	27603	PIRI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:35	52401	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/17/2024 22:36	43304	WATS_T2	0	2	2	0	0	0	-0.34	-0.33	0	0	0	0	0	0
7/17/2024 22:36	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:36	40502	CRES_T2	6	10	4	0.23	0.26	0.03	-0.38	-0.39	0	0	0	0	0	0
7/17/2024 22:36	22903	HARW_T1	7	22	15	0.34	0.67	0.33	0	0	0	0	0	0	0	0
7/17/2024 22:36	59101	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:36	52403	GRPA_T2	2	3	1	0.7	0.7	0	0	0	0	0	0	0	0	0
7/17/2024 22:36	43302	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:36	22905	HARW_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/17/2024 22:36	43301	WATS_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/17/2024 22:36	52401	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/17/2024 22:36	55001	NEWP_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/17/2024 22:36	55002	NEWP_T1	3	3	0	0.67	0.5	-0.17	-0.05	-0.06	0	0	0	0	0	0
7/17/2024 22:36	52404	GRPA_T2	0	0	0	0	0	0	0.06	0	0	0	0	0	0	0
7/17/2024 22:36	22901	HARW_T1	0	0	0	0	0	0	-0.27	-0.17	1	1	0	1200	1200	0
7/17/2024 22:37	57403	SPAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/17/2024 22:37	51002	NHAR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/17/2024 22:37	63303	GREE_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:37	63305	GREE_T1	8	0	-8	0.21	0	-0.21	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/17/2024 22:37	46203	DANV_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
7/17/2024 22:37	24102	EHAZ_T1	23	23	0	1.16	1.15	-0.01	0	0	0	0	0	0	0	0
7/17/2024 22:37	51003	NHAR_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:37	57401	SPAN_T1	0	0	0	0	0	0	-0.62	-0.73	1	1	0	600	600	0
7/17/2024 22:37	51004	NHAR_T1	1	1	0	6.9	6.7	-0.2	-1.33	-1.37	0	0	0	0	0	0
7/17/2024 22:37	41301	FISH_T1	2	2	0	0.6	0.75	0.15	-0.4	-0.42	0	0	0	0	0	0
7/17/2024 22:37	48301	ORWI_T1	2	2	0	2.9	3.15	0.25	0.62	0.6	0	0	0	0	0	0
7/17/2024 22:37	24105	EHAZ_T1	5	5	0	5.58	6.25	0.67	-0.58	-0.68	1	1	0	1200	1200	0
7/17/2024 22:37	63304	GREE_T1	0	0	0	0	0	0	-1.22	-1.27	0	0	0	0	0	0
7/17/2024 22:37	47401	PENS_T1	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
7/17/2024 22:38	24102	EHAZ_T1	23	23	0	1.16	1.15	-0.01	1.1	1.09	0	0	0	0	0	0
7/17/2024 22:38	67605	WARW_T1	3	3	0	0.63	0.7	0.07	0	0	0	0	0	0	0	0
7/17/2024 22:38	24105	EHAZ_T1	5	5	0	5.58	6.25	0.67	0	0	0	0	0	0	0	0
7/17/2024 22:38	52401	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/17/2024 22:38	67604	WARW_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
7/17/2024 22:38	47101	MARL_T1	29	20	-9	0.92	1.36	0.44	-0.39	-0.38	0	0	0	0	0	0
7/17/2024 22:38	56801	BENV_T1	7	8	1	0.6	0.74	0.14	-0.34	-0.37	1	1	0	600	600	0
7/17/2024 22:38	46203	DANV_T2	0	0	0	0	0	0	-0.68	-0.74	0	0	0	0	0	0
7/17/2024 22:38	66701	STRA_T1	0	0	0	0	0	0	0.49	0.41	1	1	0	600	600	0
7/17/2024 22:38	52403	GRPA_T2	2	3	1	0.7	0.7	0	-0.19	-0.26	0	0	0	0	0	0
7/17/2024 22:38	40101	HUNT_T2	0	1	1	0	0	0	-0.61	-0.6	0	0	0	0	0	0
7/17/2024 22:39	43301	WATS_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/17/2024 22:39	46001	BERW_T1	0	0	0	0	0	0	1.01	0.98	0	0	0	0	0	0
7/17/2024 22:39	55001	NEWP_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/17/2024 22:39	40101	HUNT_T2	0	1	1	0	0	0	-0.61	-0.6	0	0	0	0	0	0
7/17/2024 22:39	55101	WERT_T1	0	0	0	0	0	0	-1.7	-1.71	3	3	0	2400	2400	0
7/17/2024 22:39	47101	MARL_T1	29	20	-9	0.92	1.36	0.44	-0.39	-0.38	0	0	0	0	0	0
7/17/2024 22:39	43302	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:39	46203	DANV_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
7/17/2024 22:39	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/17/2024 22:39	55002	NEWP_T1	3	3	0	0.67	0.5	-0.17	-0.06	-0.11	0	0	0	0	0	0
7/17/2024 22:39	42501	ALTA_T2	0	0	0	0	0	0	-0.87	-0.9	1	1	0	600	600	0
7/17/2024 22:39	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:39	47401	PENS_T1	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
7/17/2024 22:39	43304	WATS_T2	0	2	2	0	0	0	-0.34	-0.33	0	0	0	0	0	0
7/17/2024 22:39	42903	MIDD_T2	2	2	0	0.3	0.2	-0.1	-1.1	-1.11	1	1	0	1200	1200	0
7/17/2024 22:39	26802	JAFR_T1	72	68	-4	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
7/17/2024 22:39	42701	AUGU_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
7/17/2024 22:39	60502	NMAN_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
7/17/2024 22:39	26803	JAFR_T1	5	4	-1	0.16	0.18	0.02	-0.09	-0.14	1	1	0	900	900	0
7/17/2024 22:39	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:39	26801	JAFR_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:40	60502	NMAN_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
7/17/2024 22:40	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:40	46101	MACI_T2	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
7/17/2024 22:40	46203	DANV_T2	0	0	0	0	0	0	-0.68	-0.74	0	0	0	0	0	0
7/17/2024 22:40	47101	MARL_T1	29	20	-9	0.92	1.36	0.44	-0.39	-0.38	0	0	0	0	0	0
7/17/2024 22:40	55101	WERT_T1	0	0	0	0	0	0	-1.7	-1.71	3	3	0	2400	2400	0
7/17/2024 22:40	58006	WCAR_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
7/17/2024 22:40	47401	PENS_T1	0	0	0	0	0	0	0.37	0.3	0	0	0	0	0	0
7/17/2024 22:40	44601	SALE_T2	0	0	0	0	0	0	0.09	0.13	0	0	0	0	0	0
7/17/2024 22:40	66504	SMAN_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
7/17/2024 22:40	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:40	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:40	40502	CRES_T2	6	10	4	0.23	0.26	0.03	-0.39	-0.44	0	0	0	0	0	0
7/17/2024 22:41	24102	EHAZ_T1	23	23	0	1.16	1.15	-0.01	0	0	0	0	0	0	0	0
7/17/2024 22:41	49804	UNIV_T1	0	9	9	0	0.19	0.19	0	0	0	0	0	0	0	0
7/17/2024 22:41	52403	GRPA_T2	2	3	1	0.7	0.7	0	0	0	0	0	0	0	0	0
7/17/2024 22:41	52402	GRPA_T2	0	0	0	0	0	0	-0.51	-0.57	0	0	0	0	0	0
7/17/2024 22:41	49803	UNIV_T1	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
7/17/2024 22:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:41	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:41	24105	EHAZ_T1	5	5	0	5.58	6.25	0.67	0	0	0	0	0	0	0	0
7/17/2024 22:41	57103	SPHI_T2	0	0	0	0	0	0	-0.51	-0.55	1	1	0	600	600	0
7/17/2024 22:41	57101	SPHI_T2	0	6	6	0	0.45	0.45	0	0	0	0	0	0	0	0
7/17/2024 22:41	57106	SPHI_T2	3	3	0	1.1	0.97	-0.13	0	0	0	0	0	0	0	0
7/17/2024 22:41	40502	CRES_T2	6	10	4	0.23	0.26	0.03	-0.39	-0.44	0	0	0	0	0	0
7/17/2024 22:41	55002	NEWP_T1	3	3	0	0.67	0.5	-0.17	0	0	0	0	0	0	0	0
7/17/2024 22:41	55001	NEWP_T1	1	0	-1	0.6	0	-0.6	0.04	-0.01	0	0	0	0	0	0
7/17/2024 22:41	24104	EHAZ_T1	0	0	0	0	0	0	-1.65	-1.67	1	1	0	1200	1200	0
7/17/2024 22:41	61301	EARL_T1	0	0	0	0	0	0	-0.67	-0.67	1	1	0	900	900	0
7/17/2024 22:41	52401	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/17/2024 22:42	22905	HARW_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/17/2024 22:42	27605	PIRI_T2	10	25	15	0.31	0.72	0.41	0.83	0.85	0	0	0	0	0	0
7/17/2024 22:42	22903	HARW_T1	7	22	15	0.34	0.67	0.33	0	0	0	0	0	0	0	0
7/17/2024 22:42	47101	MARL_T1	29	20	-9	0.92	1.36	0.44	-0.39	-0.38	0	0	0	0	0	0
7/17/2024 22:42	55101	WERT_T1	0	0	0	0	0	0	-3.4	-3.41	6	6	0	4800	4800	0
7/17/2024 22:42	22901	HARW_T1	0	0	0	0	0	0	-0.17	-0.23	1	1	0	1200	1200	0
7/17/2024 22:42	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:42	27603	PIRI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:43	55001	NEWP_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/17/2024 22:43	57106	SPHI_T2	3	3	0	1.1	0.97	-0.13	0	0	0	0	0	0	0	0
7/17/2024 22:43	53601	DALM_T2	1	1	0	0.6	0.6	0	-0.03	-0.09	1	1	0	600	600	0
7/17/2024 22:43	43304	WATS_T2	0	2	2	0	0	0	-0.34	-0.33	0	0	0	0	0	0
7/17/2024 22:43	55002	NEWP_T1	3	3	0	0.67	0.5	-0.17	-0.06	-0.11	0	0	0	0	0	0
7/17/2024 22:43	57403	SPAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/17/2024 22:43	43302	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:43	43301	WATS_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/17/2024 22:43	53802	MBRG_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
7/17/2024 22:43	57401	SPAN_T1	0	0	0	0	0	0	-0.62	-0.73	1	1	0	600	600	0
7/17/2024 22:43	57103	SPHI_T2	0	0	0	0	0	0	-0.51	-0.55	1	1	0	600	600	0
7/17/2024 22:43	47101	MARL_T1	29	20	-9	0.92	1.36	0.44	-0.39	-0.38	0	0	0	0	0	0
7/17/2024 22:43	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:43	66504	SMAN_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
7/17/2024 22:43	66701	STRA_T1	0	0	0	0	0	0	0.49	0.41	1	1	0	600	600	0
7/17/2024 22:43	57101	SPHI_T2	0	6	6	0	0.45	0.45	0	0	0	0	0	0	0	0
7/17/2024 22:43	46203	DANV_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
7/17/2024 22:43	58803	COCO_T1	1	1	0	0.8	1	0.2	-0.58	-0.7	0	0	0	0	0	0
7/17/2024 22:43	47401	PENS_T1	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
7/17/2024 22:43	56801	BENV_T1	7	8	1	0.6	0.74	0.14	-0.67	-0.73	2	2	0	1200	1200	0
7/17/2024 22:44	54501	ENOL_T2	0	0	0	0	0	0	-0.09	-0.13	1	1	0	600	600	0
7/17/2024 22:44	46001	BERW_T1	0	0	0	0	0	0	1.01	0.98	0	0	0	0	0	0
7/17/2024 22:44	44901	SCOT_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
7/17/2024 22:44	43302	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:44	52401	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/17/2024 22:44	43304	WATS_T2	0	2	2	0	0	0	-0.34	-0.33	0	0	0	0	0	0
7/17/2024 22:44	57403	SPAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/17/2024 22:44	52403	GRPA_T2	2	3	1	0.7	0.7	0	-0.37	-0.51	0	0	0	0	0	0
7/17/2024 22:44	58803	COCO_T1	1	1	0	0.8	1	0.2	-0.58	-0.7	0	0	0	0	0	0
7/17/2024 22:44	47101	MARL_T1	29	20	-9	0.92	1.36	0.44	-0.39	-0.38	0	0	0	0	0	0
7/17/2024 22:44	47401	PENS_T1	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
7/17/2024 22:44	57401	SPAN_T1	0	0	0	0	0	0	-0.62	-0.73	1	1	0	600	600	0
7/17/2024 22:44	45802	HEGI_T2	36	39	3	0.7	0.92	0.22	-0.07	0.04	1	1	0	900	900	0
7/17/2024 22:44	44902	SCOT_T2	212	271	59	0.38	0.47	0.09	-0.63	-0.63	0	0	0	0	0	0
7/17/2024 22:44	56501	ROCK_T2	115	137	22	0.23	0.26	0.03	-2.58	-1.39	0	0	0	0	0	0
7/17/2024 22:44	43301	WATS_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/17/2024 22:44	54701	NEBL_T1	1	1	0	0.6	0.8	0.2	0	0	1	1	0	600	600	0
7/17/2024 22:45	58706	ROSE_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:45	52403	GRPA_T2	3	2	-1	0.97	0.4	-0.57	0	0	0	0	0	0	0	0
7/17/2024 22:45	40603	PIGR_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
7/17/2024 22:45	56803	BENV_T1	0	0	0	0	0	0	-0.07	-0.09	1	1	0	600	600	0
7/17/2024 22:45	58705	ROSE_T2	5	5	0	1.44	1.48	0.04	0	0	0	0	0	0	0	0
7/17/2024 22:45	55408	SHER_T2	1	1	0	2.6	2.9	0.3	-0.94	-0.94	1	1	0	1200	1200	0
7/17/2024 22:45	54504	ENOL_T2	0	0	0	0	0	0	-0.67	-0.74	1	1	0	600	600	0
7/17/2024 22:45	48301	ORWI_T1	2	2	0	3.1	3.45	0.35	0.62	0.6	0	0	0	0	0	0
7/17/2024 22:45	57403	SPAN_T1	0	0	0	0	0	0	0.39	0.34	0	0	0	0	0	0
7/17/2024 22:45	56501	ROCK_T2	137	3	-134	0.26	0.1	-0.16	0	0	0	0	0	0	0	0
7/17/2024 22:45	57401	SPAN_T1	0	0	0	0	0	0	-0.62	-0.73	1	1	0	600	600	0
7/17/2024 22:45	56504	ROCK_T2	0	0	0	0	0	0	0.07	0.01	0	0	0	0	0	0
7/17/2024 22:45	58003	WCAR_T1	1	2	1	1	1.3	0.3	0.31	0.35	1	1	0	600	600	0
7/17/2024 22:45	52401	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/17/2024 22:45	58701	ROSE_T2	0	0	0	0	0	0	-1.8	-0.64	1	1	0	600	600	0
7/17/2024 22:45	56802	BENV_T2	0	0	0	0	0	0	-0.92	-0.98	0	0	0	0	0	0
7/17/2024 22:45	56801	BENV_T1	8	8	0	0.74	0.75	0.01	-0.34	-0.37	1	1	0	600	600	0
7/17/2024 22:45	52501	PROG_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	300	300	0
7/17/2024 22:45	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/17/2024 22:45	58001	WCAR_T1	0	4	4	0	0.43	0.43	0	0	0	0	0	0	0	0
7/17/2024 22:45	52402	GRPA_T2	0	0	0	0	0	0	-0.51	-0.57	0	0	0	0	0	0
7/17/2024 22:46	57101	SPHI_T2	0	6	6	0	0.5	0.5	0	0	0	0	0	0	0	0
7/17/2024 22:46	52403	GRPA_T2	3	2	-1	0.97	0.4	-0.57	0	0	0	0	0	0	0	0
7/17/2024 22:46	56801	BENV_T1	8	8	0	0.74	0.75	0.01	-0.34	-0.27	1	1	0	600	600	0
7/17/2024 22:46	44801	EDAN_T2	31	76	45	0.28	0.29	0.01	-1.4	-1.41	0	0	0	0	0	0
7/17/2024 22:46	57104	SPHI_T2	0	0	0	0	0	0	-1.31	-0.39	1	0	-1	900	0	-900
7/17/2024 22:46	52401	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/17/2024 22:46	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:46	47101	MARL_T1	20	16	-4	1.5	1.26	-0.24	-0.39	-0.38	0	0	0	0	0	0
7/17/2024 22:46	57106	SPHI_T2	3	3	0	0.97	0.87	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:46	52004	LING_T2	2	2	0	2.85	3.15	0.3	0.06	0.05	0	0	0	0	0	0
7/17/2024 22:46	52402	GRPA_T2	0	0	0	0	0	0	-0.51	-0.57	0	0	0	0	0	0
7/17/2024 22:46	58001	WCAR_T1	0	4	4	0	0.43	0.43	0	0	0	0	0	0	0	0
7/17/2024 22:46	55101	WERT_T1	0	0	0	0	0	0	-1.7	-1.71	3	3	0	2400	2400	0
7/17/2024 22:46	52002	LING_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
7/17/2024 22:46	46203	DANV_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
7/17/2024 22:46	58003	WCAR_T1	1	2	1	1	1.3	0.3	0.31	0.35	1	1	0	600	600	0
7/17/2024 22:46	24902	WHHA_T1	0	10	10	0	0	0	0.96	0.94	0	0	0	0	0	0
7/17/2024 22:46	40502	CRES_T2	8	9	1	0.23	0.27	0.04	-0.39	-0.44	0	0	0	0	0	0
7/17/2024 22:46	57401	SPAN_T1	0	0	0	0	0	0	-0.62	-0.73	1	1	0	600	600	0
7/17/2024 22:46	55105	WERT_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
7/17/2024 22:46	24901	WHHA_T1	1	1	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
7/17/2024 22:46	52501	PROG_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	300	300	0
7/17/2024 22:47	47401	PENS_T1	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
7/17/2024 22:47	52004	LING_T2	2	2	0	2.85	3.15	0.3	0	0	0	0	0	0	0	0
7/17/2024 22:47	44901	SCOT_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/17/2024 22:47	52002	LING_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
7/17/2024 22:47	52401	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/17/2024 22:47	52403	GRPA_T2	3	2	-1	0.97	0.4	-0.57	0	0	0	0	0	0	0	0
7/17/2024 22:47	44902	SCOT_T2	227	269	42	0.37	0.47	0.1	-0.63	-0.63	0	0	0	0	0	0
7/17/2024 22:47	56501	ROCK_T2	137	3	-134	0.26	0.1	-0.16	-2.58	-1.39	0	0	0	0	0	0
7/17/2024 22:47	52402	GRPA_T2	0	0	0	0	0	0	-0.51	-0.57	0	0	0	0	0	0
7/17/2024 22:47	54501	ENOL_T2	0	0	0	0	0	0	-0.09	-0.13	1	1	0	600	600	0
7/17/2024 22:47	56802	BENV_T2	0	0	0	0	0	0	-0.92	-0.98	0	0	0	0	0	0
7/17/2024 22:48	50201	HARR_T3	1	1	0	8.9	8.9	0	0	0	0	0	0	0	0	0
7/17/2024 22:48	51003	NHAR_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:48	45302	WBER_T2	0	0	0	0	0	0	1.32	1.32	0	0	0	0	0	0
7/17/2024 22:48	44901	SCOT_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
7/17/2024 22:48	50107	HARR_T3	1	1	0	7.1	7	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:48	51004	NHAR_T1	1	1	0	6.9	6.6	-0.3	-1.33	-1.37	0	0	0	0	0	0
7/17/2024 22:48	57401	SPAN_T1	0	0	0	0	0	0	-0.62	-0.73	1	1	0	600	600	0
7/17/2024 22:48	50103	HARR_T3	0	0	0	0	0	0	-1.24	-1.23	1	1	0	1200	1200	0
7/17/2024 22:48	57404	SPAN_T2	0	0	0	0	0	0	-0.4	-0.44	1	1	0	1200	1200	0
7/17/2024 22:48	56801	BENV_T1	8	8	0	0.74	0.75	0.01	-0.67	-0.73	2	2	0	1200	1200	0
7/17/2024 22:48	56802	BENV_T2	0	0	0	0	0	0	-0.92	-0.98	0	0	0	0	0	0
7/17/2024 22:48	51002	NHAR_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/17/2024 22:48	44902	SCOT_T2	227	269	42	0.37	0.47	0.1	-0.63	-0.63	0	0	0	0	0	0
7/17/2024 22:48	57303	MOAL_T2	1	1	0	7.8	7.2	-0.6	0	0	0	0	0	0	0	0
7/17/2024 22:48	53501	EVIL_T2	1	1	0	0.4	1.1	0.7	-0.35	-0.43	2	2	0	1200	1200	0
7/17/2024 22:48	57304	MOAL_T2	0	1	1	0	0.2	0.2	-0.25	-0.3	0	0	0	0	0	0
7/17/2024 22:48	52004	LING_T2	2	2	0	2.85	3.15	0.3	0	0	0	0	0	0	0	0
7/17/2024 22:48	50105	HARR_T3	6	6	0	6.12	6.02	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:48	41301	FISH_T1	2	2	0	0.6	0.9	0.3	-0.4	-0.42	0	0	0	0	0	0
7/17/2024 22:48	52002	LING_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
7/17/2024 22:48	57302	MOAL_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/17/2024 22:49	57403	SPAN_T1	0	0	0	0	0	0	0.39	0.34	0	0	0	0	0	0
7/17/2024 22:49	56501	ROCK_T2	137	3	-134	0.26	0.1	-0.16	-2.58	-1.39	0	0	0	0	0	0
7/17/2024 22:49	58803	COCO_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
7/17/2024 22:49	56802	BENV_T2	0	0	0	0	0	0	-0.92	-0.98	0	0	0	0	0	0
7/17/2024 22:49	40101	HUNT_T2	0	1	1	0	0	0	-0.61	-0.6	0	0	0	0	0	0
7/17/2024 22:49	52004	LING_T2	2	2	0	2.85	3.15	0.3	0.06	0.05	0	0	0	0	0	0
7/17/2024 22:49	44801	EDAN_T2	31	76	45	0.28	0.29	0.01	-2.8	-2.82	0	0	0	0	0	0
7/17/2024 22:49	57404	SPAN_T2	0	0	0	0	0	0	-0.4	-0.44	1	1	0	1200	1200	0
7/17/2024 22:49	56801	BENV_T1	8	8	0	0.74	0.75	0.01	-1.01	-1.1	3	3	0	1800	1800	0
7/17/2024 22:49	52002	LING_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
7/17/2024 22:50	51004	NHAR_T1	1	1	0	6.9	6.6	-0.3	-1.33	-1.37	0	0	0	0	0	0
7/17/2024 22:50	52004	LING_T2	2	2	0	2.85	3.15	0.3	0	0	0	0	0	0	0	0
7/17/2024 22:50	52002	LING_T2	0	0	0	0	0	0	1.08	1.06	0	0	0	0	0	0
7/17/2024 22:50	56801	BENV_T1	8	8	0	0.74	0.75	0.01	-0.67	-0.73	2	2	0	1200	1200	0
7/17/2024 22:50	41901	REED_T1	8	8	0	0.33	0.34	0.01	0	0	0	0	0	0	0	0
7/17/2024 22:50	51003	NHAR_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:50	56802	BENV_T2	0	0	0	0	0	0	-0.92	-0.98	0	0	0	0	0	0
7/17/2024 22:50	51002	NHAR_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/17/2024 22:50	40101	HUNT_T2	0	1	1	0	0	0	-0.61	-0.6	0	0	0	0	0	0
7/17/2024 22:51	24902	WHHA_T1	0	10	10	0	0	0	0	0	0	0	0	0	0	0
7/17/2024 22:51	24901	WHHA_T1	1	1	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
7/17/2024 22:51	57101	SPHI_T2	0	6	6	0	0.5	0.5	0	0	0	0	0	0	0	0
7/17/2024 22:51	42201	SHEN_T2	0	0	0	0	0	0	0.03	0.02	1	1	0	600	600	0
7/17/2024 22:51	57106	SPHI_T2	3	3	0	0.97	0.87	-0.1	0	0	0	0	0	0	0	0
7/17/2024 22:51	50506	MECH_T1	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
7/17/2024 22:51	41901	REED_T1	8	8	0	0.33	0.34	0.01	0	0	0	0	0	0	0	0
7/17/2024 22:51	56801	BENV_T1	8	8	0	0.74	0.75	0.01	-0.34	-0.37	1	1	0	600	600	0
7/17/2024 22:51	50502	MECH_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
7/17/2024 22:51	57103	SPHI_T2	0	0	0	0	0	0	-0.51	-0.55	1	1	0	600	600	0
7/17/2024 22:51	41902	REED_T1	0	0	0	0	0	0	0.79	0.86	2	2	0	1800	1800	0
7/17/2024 22:51	50501	MECH_T1	4	4	0	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
7/17/2024 22:51	40101	HUNT_T2	0	1	1	0	0	0	-0.61	-0.6	0	0	0	0	0	0
7/17/2024 22:52	64203	KINZ_T1	0	0	0	0	0	0	0.07	0.03	1	1	0	600	600	0
7/17/2024 22:52	64204	KINZ_T1	1	1	0	0.6	1.3	0.7	0	0	0	0	0	0	0	0
7/17/2024 22:52	64202	KINZ_T1	2	3	1	0.25	0.47	0.22	0	0	0	0	0	0	0	0
7/17/2024 22:53	64203	KINZ_T1	0	0	0	0	0	0	0.07	0.03	1	1	0	600	600	0
7/17/2024 22:53	64202	KINZ_T1	2	3	1	0.25	0.47	0.22	0	0	0	0	0	0	0	0
7/17/2024 22:53	64204	KINZ_T1	1	1	0	0.6	1.3	0.7	0	0	0	0	0	0	0	0
7/17/2024 23:14	64204	KINZ_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
7/17/2024 23:14	64202	KINZ_T1	3	3	0	0.47	0.17	-0.3	0	0	0	0	0	0	0	0
7/17/2024 23:14	64203	KINZ_T1	0	0	0	0	0	0	0.03	-0.03	1	1	0	600	600	0
7/17/2024 23:15	64203	KINZ_T1	0	0	0	0	0	0	0.03	-0.03	1	1	0	600	600	0
7/17/2024 23:15	44301	BEAV_T2	0	0	0	0	0	0	0.03	-0.1	1	1	0	600	600	0
7/17/2024 23:15	64202	KINZ_T1	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/17/2024 23:15	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
7/17/2024 23:18	40101	HUNT_T2	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
7/17/2024 23:22	66505	SMAN_T2	0	0	0	0	0	0	0.24	0.57	2	2	0	1500	1100	-400
7/17/2024 23:33	57401	SPAN_T1	0	0	0	0	0	0	-0.85	-0.9	1	1	0	600	600	0
7/17/2024 23:33	47901	HRDG_T1	0	0	0	0	0	0	1.53	1.27	1	1	0	1200	1200	0
7/17/2024 23:36	64202	KINZ_T1	3	3	0	0.17	0.37	0.2	0	0	0	0	0	0	0	0
7/17/2024 23:36	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
7/17/2024 23:36	64203	KINZ_T1	0	0	0	0	0	0	-0.03	-0.02	1	1	0	600	600	0
7/17/2024 23:37	64203	KINZ_T1	0	0	0	0	0	0	-0.02	0	1	1	0	600	600	0
7/17/2024 23:37	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
7/17/2024 23:37	64202	KINZ_T1	3	3	0	0.17	0.37	0.2	0	0	0	0	0	0	0	0
7/17/2024 23:58	64204	KINZ_T1	1	1	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
7/17/2024 23:58	64203	KINZ_T1	0	0	0	0	0	0	0	0.09	1	1	0	600	600	0
7/17/2024 23:58	64202	KINZ_T1	2	3	1	0.25	0.7	0.45	0	0	0	0	0	0	0	0
7/17/2024 23:58	64201	KINZ_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
7/17/2024 23:59	64203	KINZ_T1	0	0	0	0	0	0	0	0.09	1	1	0	600	600	0
7/17/2024 23:59	64202	KINZ_T1	2	3	1	0.25	0.7	0.45	0	0	0	0	0	0	0	0
7/17/2024 23:59	64201	KINZ_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
7/17/2024 23:59	64204	KINZ_T1	1	1	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
7/18/2024 0:21	64203	KINZ_T1	0	0	0	0	0	0	0.09	0.05	1	1	0	600	600	0
7/18/2024 0:21	64202	KINZ_T1	3	3	0	0.7	0.43	-0.27	0	0	0	0	0	0	0	0
7/18/2024 0:21	64201	KINZ_T1	3	5	2	0.13	0.28	0.15	0	0	0	0	0	0	0	0
7/18/2024 0:21	64204	KINZ_T1	1	12	11	1.1	0.24	-0.86	0	0	0	0	0	0	0	0
7/18/2024 0:22	64204	KINZ_T1	1	12	11	1.1	0.24	-0.86	0	0	0	0	0	0	0	0
7/18/2024 0:22	64203	KINZ_T1	0	0	0	0	0	0	0.05	0.01	1	1	0	600	600	0
7/18/2024 0:22	64202	KINZ_T1	3	3	0	0.7	0.43	-0.27	0	0	0	0	0	0	0	0
7/18/2024 0:22	64201	KINZ_T1	3	5	2	0.13	0.28	0.15	0	0	0	0	0	0	0	0
7/18/2024 0:24	13904	SEID_T1	4	0	-4	0.38	0	-0.38	-0.53	-0.53	0	0	0	0	0	0
7/18/2024 0:44	42201	SHEN_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
7/18/2024 0:49	61301	EARL_T1	0	0	0	0	0	0	-0.71	-0.74	1	1	0	900	900	0
7/18/2024 0:50	61301	EARL_T1	0	0	0	0	0	0	-0.71	-0.74	1	1	0	900	900	0
7/18/2024 1:06	64201	KINZ_T1	7	7	0	0.44	0.44	0	0	0	0	0	0	0	0	0
7/18/2024 1:06	64203	KINZ_T1	0	0	0	0	0	0	0.08	0	1	1	0	600	600	0
7/18/2024 1:06	64202	KINZ_T1	8	8	0	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
7/18/2024 1:06	64204	KINZ_T1	22	20	-2	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
7/18/2024 1:07	64203	KINZ_T1	0	0	0	0	0	0	0	0.05	1	1	0	600	600	0
7/18/2024 1:07	64204	KINZ_T1	22	20	-2	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
7/18/2024 1:07	64202	KINZ_T1	8	8	0	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
7/18/2024 1:07	64201	KINZ_T1	7	7	0	0.44	0.44	0	0	0	0	0	0	0	0	0
7/18/2024 1:15	22602	KIMB_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
7/18/2024 1:24	67801	WLAN_T1	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
7/18/2024 2:31	64904	MILL_T1	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
7/18/2024 3:12	65901	SAKR_T2	1	1	0	7.3	8	0.7	-0.88	-0.87	1	1	0	900	900	0
7/18/2024 7:28	22002	BOHE_T1	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
7/18/2024 7:28	22003	BOHE_T1	80	225	145	0.16	0.32	0.16	0	0	0	0	0	0	0	0
7/18/2024 7:42	40801	EXCH_T2	0	0	0	0	0	0	-0.19	-0.15	1	1	0	1200	1200	0
7/18/2024 7:57	40802	EXCH_T2	0	0	0	0	0	0	-0.35	-0.43	0	0	0	0	0	0
7/18/2024 7:58	40802	EXCH_T2	0	0	0	0	0	0	-0.35	-0.43	0	0	0	0	0	0
7/18/2024 7:59	40101	HUNT_T2	0	0	0	0	0	0	-0.42	-0.34	0	0	0	0	0	0
7/18/2024 8:03	64902	MILL_T2	0	0	0	0	0	0	-1.79	-1.66	2	2	0	1800	1800	0
7/18/2024 8:03	43202	MVIL_T2	0	29	29	0	0.18	0.18	-0.48	-0.45	0	0	0	0	0	0
7/18/2024 8:07	67505	WEWI_T1	0	0	0	0	0	0	0.31	0.31	1	1	0	900	900	0
7/18/2024 8:08	15103	UPHA_T2	0	0	0	0	0	0	0.65	0.69	0	0	0	0	0	0
7/18/2024 8:09	67505	WEWI_T1	0	0	0	0	0	0	0.31	0.31	1	1	0	900	900	0
7/18/2024 8:10	45602	WOOL_T1	0	0	0	0	0	0	0.93	0.99	0	0	0	0	0	0
7/18/2024 8:11	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 8:11	28102	WLA_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
7/18/2024 8:11	45602	WOOL_T1	0	0	0	0	0	0	0.93	0.99	0	0	0	0	0	0
7/18/2024 8:13	25601	ARRO_T1	0	0	0	0	0	0	0.39	0.84	0	0	0	0	0	0
7/18/2024 8:13	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 8:14	61501	EPET_T2	1	1	0	5.4	5	-0.4	0	0	0	0	0	0	0	0
7/18/2024 8:14	61506	EPET_T2	0	0	0	0	0	0	-0.18	-0.2	1	1	0	900	900	0
7/18/2024 8:16	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 8:17	64204	KINZ_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/18/2024 8:17	45702	LIND_T2	3	6	3	0.2	0.25	0.05	-1.54	-1.55	0	0	0	0	0	0
7/18/2024 8:17	64203	KINZ_T1	0	0	0	0	0	0	0.12	0.06	3	3	0	2100	2100	0
7/18/2024 8:18	65603	QVIL_T2	0	0	0	0	0	0	0.71	0.62	0	0	0	0	0	0
7/18/2024 8:19	15703	TANN_T2	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
7/18/2024 8:19	15702	TANN_T2	1	1	0	1	0	-1	-0.09	-0.15	0	0	0	0	0	0
7/18/2024 8:20	15703	TANN_T2	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
7/18/2024 8:20	15702	TANN_T2	1	1	0	1	0	-1	-0.09	-0.15	0	0	0	0	0	0
7/18/2024 8:21	22701	MINO_T1	0	0	0	0	0	0	-0.69	-0.68	1	1	0	600	600	0
7/18/2024 8:23	29402	BELT_T1	1	1	0	7.2	7.7	0.5	0	0	0	0	0	0	0	0
7/18/2024 8:23	50505	MECH_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
7/18/2024 8:23	50501	MECH_T1	4	4	0	1.6	1.28	-0.32	0	0	0	0	0	0	0	0
7/18/2024 8:23	50502	MECH_T1	1	1	0	1.4	1.8	0.4	0	0	0	0	0	0	0	0
7/18/2024 8:24	65603	QVIL_T2	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
7/18/2024 8:25	14601	SWHI_T1	0	0	0	0	0	0	-2	-1.97	0	0	0	0	0	0
7/18/2024 8:26	62102	ELAN_T1	1	0	-1	0.4	0	-0.4	1.11	1.05	0	0	0	0	0	0
7/18/2024 8:26	14601	SWHI_T1	0	0	0	0	0	0	-2	-1.97	0	0	0	0	0	0
7/18/2024 8:30	45701	LIND_T2	0	0	0	0	0	0	-1.41	-1.38	0	0	0	0	0	0
7/18/2024 8:30	45702	LIND_T2	3	8	5	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
7/18/2024 8:33	64204	KINZ_T1	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/18/2024 8:33	64203	KINZ_T1	0	0	0	0	0	0	0.06	0.08	3	3	0	2100	2100	0
7/18/2024 8:34	46302	ROHR_T1	4	4	0	1.5	1.45	-0.05	0	0	0	0	0	0	0	0
7/18/2024 8:34	46301	ROHR_T1	0	11	11	0	0.15	0.15	0.31	0.34	0	0	0	0	0	0
7/18/2024 8:36	13202	PALM_T2	0	0	0	0	0	0	-2.25	-1.62	4	4	0	3600	3600	0
7/18/2024 8:37	46301	ROHR_T1	0	11	11	0	0.15	0.15	0	0	0	0	0	0	0	0
7/18/2024 8:37	46302	ROHR_T1	4	4	0	1.5	1.45	-0.05	0.58	0.58	0	0	0	0	0	0
7/18/2024 8:37	13202	PALM_T2	0	0	0	0	0	0	-2.25	-1.62	4	3	-1	3600	3000	-600

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/18/2024 8:38	67803	WLAN_T1	0	0	0	0	0	0	-2.44	-2.48	0	0	0	0	0	0
7/18/2024 8:38	46301	ROHR_T1	0	11	11	0	0.15	0.15	0.34	0.35	0	0	0	0	0	0
7/18/2024 8:38	46302	ROHR_T1	4	4	0	1.5	1.45	-0.05	0	0	0	0	0	0	0	0
7/18/2024 8:42	58003	WCAR_T1	34	1	-33	0.19	1.1	0.91	0.95	0.94	0	0	0	0	0	0
7/18/2024 8:42	46203	DANV_T2	0	0	0	0	0	0	-3.23	-3.24	0	0	0	0	0	0
7/18/2024 8:42	46206	DANV_T2	12	14	2	0.62	0.23	-0.39	0	0	0	0	0	0	0	0
7/18/2024 8:42	44802	EDAN_T2	0	0	0	0	0	0	-0.43	-0.36	0	0	0	0	0	0
7/18/2024 8:42	58001	WCAR_T1	4	4	0	1.53	0.9	-0.63	0	0	0	0	0	0	0	0
7/18/2024 8:42	44801	EDAN_T2	16	15	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/18/2024 8:43	46206	DANV_T2	12	14	2	0.62	0.23	-0.39	0	0	0	0	0	0	0	0
7/18/2024 8:43	46203	DANV_T2	0	0	0	0	0	0	-1.62	-1.62	0	0	0	0	0	0
7/18/2024 8:47	67605	WARW_T1	1	0	-1	0.7	0	-0.7	-0.81	-0.8	0	0	0	0	0	0
7/18/2024 8:47	28102	TWLA_T2	0	1	1	0	0.1	0.1	0.23	0.23	0	0	0	0	0	0
7/18/2024 8:48	64904	MILL_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
7/18/2024 8:48	21203	ECAR_T1	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
7/18/2024 8:50	15702	TANN_T2	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
7/18/2024 8:50	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
7/18/2024 8:51	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
7/18/2024 8:51	15702	TANN_T2	0	0	0	0	0	0	-0.19	-0.26	0	0	0	0	0	0
7/18/2024 8:57	54505	ENOL_T2	1	1	0	0.2	0.3	0.1	-1.07	-1.08	1	1	0	600	600	0
7/18/2024 8:58	11102	EGYP_T1	1	1	0	0.3	0.2	-0.1	-0.08	-0.01	0	0	0	0	0	0
7/18/2024 8:58	11101	EGYP_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
7/18/2024 8:59	11102	EGYP_T1	1	1	0	0.3	0.2	-0.1	-0.08	-0.01	0	0	0	0	0	0
7/18/2024 8:59	11101	EGYP_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
7/18/2024 8:59	11103	EGYP_T1	0	0	0	0	0	0	-0.69	-0.65	0	0	0	0	0	0
7/18/2024 9:01	11101	EGYP_T1	2	1	-1	0.65	0.7	0.05	0	0	0	0	0	0	0	0
7/18/2024 9:01	54505	ENOL_T2	1	1	0	0.3	0.1	-0.2	-1.07	-1.08	1	1	0	600	600	0
7/18/2024 9:01	11102	EGYP_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
7/18/2024 9:01	47001	HUGH_T2	5	5	0	5.28	6.38	1.1	-2.34	-2.2	2	2	0	1800	1800	0
7/18/2024 9:01	11103	EGYP_T1	0	0	0	0	0	0	-0.69	-0.65	0	0	0	0	0	0
7/18/2024 9:03	23202	HIRU_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
7/18/2024 9:04	40601	PIGR_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
7/18/2024 9:04	56501	ROCK_T2	88	94	6	0.21	0.21	0	-1.51	-1.45	0	0	0	0	0	0
7/18/2024 9:04	40602	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/18/2024 9:06	56501	ROCK_T2	88	94	6	0.21	0.21	0	-1.51	-1.45	0	0	0	0	0	0
7/18/2024 9:07	56501	ROCK_T2	88	94	6	0.21	0.21	0	-1.45	-1.51	0	0	0	0	0	0
7/18/2024 9:07	40602	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/18/2024 9:07	40601	PIGR_T1	0	0	0	0	0	0	-0.19	-0.1	0	0	0	0	0	0
7/18/2024 9:08	67605	WARW_T1	0	0	0	0	0	0	-0.77	-0.71	0	0	0	0	0	0
7/18/2024 9:09	67605	WARW_T1	0	0	0	0	0	0	-0.77	-0.71	0	0	0	0	0	0
7/18/2024 9:10	20401	ASHF_T2	2	1	-1	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/18/2024 9:10	20402	ASHF_T2	6	0	-6	0.65	0	-0.65	0	0	0	0	0	0	0	0
7/18/2024 9:10	20403	ASHF_T2	0	0	0	0	0	0	1.83	1.78	0	0	0	0	0	0
7/18/2024 9:11	20401	ASHF_T2	2	1	-1	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/18/2024 9:11	20402	ASHF_T2	6	0	-6	0.65	0	-0.65	0	0	0	0	0	0	0	0
7/18/2024 9:11	20403	ASHF_T2	0	0	0	0	0	0	1.83	1.78	0	0	0	0	0	0
7/18/2024 9:17	23102	MOSC_T2	0	0	0	0	0	0	-0.01	-0.15	1	1	0	900	900	0
7/18/2024 9:37	45602	WOOL_T1	0	0	0	0	0	0	0.96	0.96	0	0	0	0	0	0
7/18/2024 9:37	13905	SEID_T1	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
7/18/2024 9:40	46206	DANV_T2	11	9	-2	0.52	0.74	0.22	4.46	4.54	4	4	0	4200	4200	0
7/18/2024 9:41	43402	BENT_T1	2	2	0	0.45	0.5	0.05	-0.52	-0.45	1	1	0	900	900	0
7/18/2024 9:42	45602	WOOL_T1	0	0	0	0	0	0	1.92	1.92	0	0	0	0	0	0
7/18/2024 9:43	43402	BENT_T1	2	2	0	0.45	0.5	0.05	-0.52	-0.45	1	1	0	900	900	0
7/18/2024 9:44	43402	BENT_T1	2	2	0	0.45	0.5	0.05	-0.52	-0.45	1	1	0	900	900	0
7/18/2024 9:47	13502	MCMI_T1	1	2	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/18/2024 9:47	13501	MCMI_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
7/18/2024 9:53	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 9:53	24902	WHHA_T1	1	1	0	0.2	0.2	0	0.92	0.9	0	0	0	0	0	0
7/18/2024 9:53	61802	EELI_T2	0	0	0	0	0	0	0.14	0.21	0	0	0	0	0	0
7/18/2024 9:53	43304	WATS_T2	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
7/18/2024 9:53	61801	EELI_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
7/18/2024 9:54	24902	WHHA_T1	1	1	0	0.2	0.2	0	0.92	0.9	0	0	0	0	0	0
7/18/2024 9:54	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 9:56	43304	WATS_T2	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
7/18/2024 9:56	25603	ARRO_T1	1	2	1	0.2	0.2	0	0.38	0.36	0	0	0	0	0	0
7/18/2024 9:57	22002	BOHE_T1	0	0	0	0	0	0	0.6	0.64	0	0	0	0	0	0
7/18/2024 9:57	61801	EELI_T2	0	4	4	0	0.18	0.18	-0.42	-0.4	1	1	0	600	600	0
7/18/2024 9:57	22001	BOHE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/18/2024 9:57	22003	BOHE_T1	72	99	27	0.17	0.18	0.01	0	0	0	0	0	0	0	0
7/18/2024 9:57	61802	EELI_T2	0	0	0	0	0	0	0.14	0.21	0	0	0	0	0	0
7/18/2024 9:59	47001	HUGH_T2	3	4	1	8.7	6.68	-2.02	-1.03	-1.11	1	1	0	900	900	0
7/18/2024 10:00	21203	ECAR_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
7/18/2024 10:00	40504	CRES_T1	2	5	3	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/18/2024 10:00	45802	HEGI_T2	0	2	2	0	0.2	0.2	1.32	1.25	4	4	0	2400	2400	0
7/18/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
7/18/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
7/18/2024 10:00	40505	CRES_T1	4	3	-1	2.05	2.73	0.68	0.68	0.66	0	0	0	0	0	0
7/18/2024 10:07	43301	WATS_T2	0	0	0	0	0	0	-0.3	-0.27	1	1	0	900	900	0
7/18/2024 10:08	25501	MADI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/18/2024 10:08	13903	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/18/2024 10:08	25503	MADI_T1	41	11	-30	0.2	0.19	-0.01	-0.65	-0.67	0	0	0	0	0	0
7/18/2024 10:08	13905	SEID_T1	0	0	0	0	0	0	0.69	0.73	0	0	0	0	0	0
7/18/2024 10:08	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 10:11	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 10:11	46206	DANV_T2	7	16	9	0.57	0.54	-0.03	2.29	2.33	2	2	0	2100	2100	0
7/18/2024 10:11	62102	ELAN_T1	0	0	0	0	0	0	1.13	1.19	0	0	0	0	0	0
7/18/2024 10:11	29402	BELT_T1	10	2	-8	1.1	4.9	3.8	0	0	0	0	0	0	0	0
7/18/2024 10:12	46206	DANV_T2	7	16	9	0.57	0.54	-0.03	2.29	2.33	2	2	0	2100	2100	0
7/18/2024 10:13	63304	GREE_T1	0	1	1	0	0	0	-1.17	-1.24	0	0	0	0	0	0
7/18/2024 10:13	11102	EGYP_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
7/18/2024 10:13	11101	EGYP_T1	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
7/18/2024 10:13	11103	EGYP_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
7/18/2024 10:14	24105	EHAZ_T1	5	5	0	6.53	6.6	0.07	0	0	0	0	0	0	0	0
7/18/2024 10:14	24103	EHAZ_T1	0	0	0	0	0	0	-0.11	-0.03	0	0	0	0	0	0
7/18/2024 10:14	11103	EGYP_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
7/18/2024 10:14	24101	EHAZ_T1	0	17	17	0	0.23	0.23	0	0	0	0	0	0	0	0
7/18/2024 10:14	47001	HUGH_T2	4	4	0	6.53	6.5	-0.03	-1.11	-1	1	1	0	900	900	0
7/18/2024 10:14	24104	EHAZ_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/18/2024 10:14	24102	EHAZ_T1	1	1	0	2	1.5	-0.5	0	0	0	0	0	0	0	0
7/18/2024 10:14	11101	EGYP_T1	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
7/18/2024 10:14	11102	EGYP_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
7/18/2024 10:15	47001	HUGH_T2	4	3	-1	6.5	8.4	1.9	-1.11	-1	1	1	0	900	900	0
7/18/2024 10:15	44801	EDAN_T2	1	2	1	0.2	0.1	-0.1	-1.28	-1.24	0	0	0	0	0	0
7/18/2024 10:17	63304	GREE_T1	0	0	0	0	0	0	-1.17	-1.24	0	0	0	0	0	0
7/18/2024 10:18	15703	TANN_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
7/18/2024 10:18	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 10:18	15702	TANN_T2	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
7/18/2024 10:18	64203	KINZ_T1	2	1	-1	0.75	0.5	-0.25	0.37	0.31	3	3	0	2100	2100	0
7/18/2024 10:18	60502	NMAN_T2	0	0	0	0	0	0	0.41	0.55	0	0	0	0	0	0
7/18/2024 10:18	64204	KINZ_T1	2	1	-1	0.55	1.3	0.75	0	0	0	0	0	0	0	0
7/18/2024 10:19	15703	TANN_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
7/18/2024 10:19	60502	NMAN_T2	0	0	0	0	0	0	0.41	0.55	0	0	0	0	0	0
7/18/2024 10:19	15702	TANN_T2	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
7/18/2024 10:20	15703	TANN_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
7/18/2024 10:20	44703	MUNC_T2	0	0	0	0	0	0	0.97	1.02	0	0	0	0	0	0
7/18/2024 10:20	15702	TANN_T2	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
7/18/2024 10:23	67605	WARW_T1	1	1	0	0.2	0.1	-0.1	-0.67	-0.65	0	0	0	0	0	0
7/18/2024 10:23	20401	ASHF_T2	4	4	0	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
7/18/2024 10:23	65802	RTWN_T2	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
7/18/2024 10:23	20402	ASHF_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/18/2024 10:23	20403	ASHF_T2	1	0	-1	0.2	0	-0.2	1.87	1.83	0	0	0	0	0	0
7/18/2024 10:24	20402	ASHF_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/18/2024 10:24	20401	ASHF_T2	4	4	0	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
7/18/2024 10:24	67605	WARW_T1	1	1	0	0.2	0.1	-0.1	-0.67	-0.65	0	0	0	0	0	0
7/18/2024 10:24	20403	ASHF_T2	1	0	-1	0.2	0	-0.2	1.87	1.83	0	0	0	0	0	0
7/18/2024 10:24	43304	WATS_T2	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
7/18/2024 10:25	24902	WHHA_T1	1	1	0	0.3	0.3	0	0.91	0.93	0	0	0	0	0	0
7/18/2024 10:25	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 10:25	20403	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/18/2024 10:25	20402	ASHF_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/18/2024 10:25	20401	ASHF_T2	4	4	0	0.63	0.5	-0.13	0.35	0.41	0	0	0	0	0	0
7/18/2024 10:26	24902	WHHA_T1	1	1	0	0.3	0.3	0	0.91	0.93	0	0	0	0	0	0
7/18/2024 10:26	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 10:26	56803	BENV_T1	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
7/18/2024 10:26	56801	BENV_T1	1	2	1	0.2	0.1	-0.1	-0.45	-0.44	1	1	0	600	600	0
7/18/2024 10:27	44801	EDAN_T2	1	2	1	0.2	0.1	-0.1	-1.24	-1.22	0	0	0	0	0	0
7/18/2024 10:29	52404	GRPA_T2	0	0	0	0	0	0	0.41	0.29	0	0	0	0	0	0
7/18/2024 10:29	52402	GRPA_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/18/2024 10:29	52403	GRPA_T2	4	7	3	0.6	0.93	0.33	0	0	0	0	0	0	0	0
7/18/2024 10:30	20403	ASHF_T2	0	0	0	0	0	0	1.87	1.83	0	0	0	0	0	0
7/18/2024 10:30	20401	ASHF_T2	4	4	0	0.53	0.63	0.1	0	0	0	0	0	0	0	0
7/18/2024 10:31	65402	MARI_T1	0	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0
7/18/2024 10:31	52403	GRPA_T2	4	11	7	0.93	0.73	-0.2	0	0	0	0	0	0	0	0
7/18/2024 10:31	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 10:31	52404	GRPA_T2	0	0	0	0	0	0	0.41	0.29	0	0	0	0	0	0
7/18/2024 10:31	65401	MARI_T1	0	0	0	0	0	0	0.26	0.32	0	0	0	0	0	0
7/18/2024 10:34	13502	MCMI_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/18/2024 10:34	52501	PROG_T1	0	0	0	0	0	0	-0.73	-0.72	1	1	0	300	300	0
7/18/2024 10:34	13501	MCMI_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
7/18/2024 10:35	13502	MCMI_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/18/2024 10:37	58001	WCAR_T1	4	4	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
7/18/2024 10:37	52501	PROG_T1	0	0	0	0	0	0	-0.72	-0.71	1	1	0	300	300	0
7/18/2024 10:37	58003	WCAR_T1	1	1	0	0.6	0.7	0.1	0.97	0.99	0	0	0	0	0	0
7/18/2024 10:38	14403	SSLA_T1	0	1	1	0	0	0	1.32	1.36	0	0	0	0	0	0
7/18/2024 10:38	14404	SSLA_T1	2	2	0	2.8	2.7	-0.1	0	0	0	0	0	0	0	0
7/18/2024 10:38	25603	ARRO_T1	1	2	1	0.2	0.3	0.1	0.36	0.36	0	0	0	0	0	0
7/18/2024 10:39	43402	BENT_T1	2	2	0	0.2	0.4	0.2	-0.48	-0.48	1	1	0	900	900	0
7/18/2024 10:39	56802	BENV_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
7/18/2024 10:39	52501	PROG_T1	0	0	0	0	0	0	-0.72	-0.71	1	1	0	300	300	0
7/18/2024 10:39	43401	BENT_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 10:40	61801	EELI_T2	5	9	4	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/18/2024 10:40	61803	EELI_T2	0	0	0	0	0	0	1.5	1.49	0	0	0	0	0	0
7/18/2024 10:40	43402	BENT_T1	2	2	0	0.2	0.4	0.2	-0.48	-0.48	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/18/2024 10:40	58003	WCAR_T1	1	1	0	0.6	0.7	0.1	0.97	0.99	0	0	0	0	0	0
7/18/2024 10:40	61802	EELI_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
7/18/2024 10:40	43401	BENT_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 10:40	53601	DALM_T2	1	2	1	0.7	0.75	0.05	0	0	0	0	0	0	0	0
7/18/2024 10:40	58001	WCAR_T1	4	4	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
7/18/2024 10:40	56802	BENV_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
7/18/2024 10:40	53602	DALM_T2	0	0	0	0	0	0	-0.46	-0.44	1	1	0	600	600	0
7/18/2024 10:41	43401	BENT_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 10:41	25603	ARRO_T1	1	2	1	0.2	0.3	0.1	0.18	0.18	0	0	0	0	0	0
7/18/2024 10:41	53601	DALM_T2	1	2	1	0.7	0.75	0.05	-0.02	-0.06	1	1	0	600	600	0
7/18/2024 10:41	56802	BENV_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
7/18/2024 10:41	43402	BENT_T1	2	2	0	0.2	0.4	0.2	-0.48	-0.48	1	1	0	900	900	0
7/18/2024 10:45	53902	HALI_T2	1	1	0	4.5	4.5	0	0	0	0	0	0	0	0	0
7/18/2024 10:45	53903	HALI_T2	2	2	0	0.85	0.65	-0.2	0.05	0.1	0	0	0	0	0	0
7/18/2024 10:46	53902	HALI_T2	1	1	0	4.5	4.5	0	0	0	0	0	0	0	0	0
7/18/2024 10:46	53903	HALI_T2	2	2	0	0.85	0.65	-0.2	0.05	0.1	0	0	0	0	0	0
7/18/2024 10:46	20603	GRWO_T2	0	0	0	0	0	0	-0.3	-0.31	1	1	0	900	900	0
7/18/2024 10:47	53903	HALI_T2	2	2	0	0.85	0.65	-0.2	0.05	0.1	0	0	0	0	0	0
7/18/2024 10:47	53902	HALI_T2	1	1	0	4.5	4.5	0	0	0	0	0	0	0	0	0
7/18/2024 10:48	43202	MVIL_T2	1	1	0	0.4	0.2	-0.2	-0.36	-0.36	0	0	0	0	0	0
7/18/2024 10:50	43202	MVIL_T2	1	1	0	0.4	0.2	-0.2	-0.36	-0.36	0	0	0	0	0	0
7/18/2024 10:51	43202	MVIL_T2	1	1	0	0.4	0.2	-0.2	-0.36	-0.38	0	0	0	0	0	0
7/18/2024 10:56	56801	BENV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/18/2024 10:56	56803	BENV_T1	0	2	2	0	0	0	0.37	0.47	1	1	0	600	600	0
7/18/2024 11:00	50701	SMEC_T1	0	0	0	0	0	0	0.06	0.12	0	0	0	0	0	0
7/18/2024 11:02	50701	SMEC_T1	0	0	0	0	0	0	0.06	0.12	0	0	0	0	0	0
7/18/2024 11:02	52002	LING_T2	0	0	0	0	0	0	0.57	0.65	0	0	0	0	0	0
7/18/2024 11:02	13503	MCMI_T2	0	0	0	0	0	0	0.13	0.2	0	0	0	0	0	0
7/18/2024 11:02	52004	LING_T2	2	2	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
7/18/2024 11:04	67605	WARW_T1	1	1	0	0.3	0.5	0.2	-0.79	-0.61	0	0	0	0	0	0
7/18/2024 11:05	64101	REFR_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
7/18/2024 11:06	67602	WARW_T2	0	0	0	0	0	0	1.18	1.12	0	0	0	0	0	0
7/18/2024 11:06	42203	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 11:06	43802	SWIL_T1	0	0	0	0	0	0	0.13	0.16	1	1	0	600	600	0
7/18/2024 11:06	43304	WATS_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/18/2024 11:06	43801	SWIL_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
7/18/2024 11:06	42201	SHEN_T2	1	0	-1	0.1	0	-0.1	0.09	0.09	1	1	0	600	600	0
7/18/2024 11:06	64101	REFR_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
7/18/2024 11:06	43301	WATS_T2	0	0	0	0	0	0	-0.24	-0.23	1	1	0	900	900	0
7/18/2024 11:07	64101	REFR_T1	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
7/18/2024 11:07	43304	WATS_T2	1	1	0	0.7	0	-0.7	0.07	0.05	0	0	0	0	0	0
7/18/2024 11:07	13503	MCMI_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
7/18/2024 11:10	64101	REFR_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
7/18/2024 11:10	43304	WATS_T2	1	1	0	0.7	0	-0.7	0.07	0.05	0	0	0	0	0	0
7/18/2024 11:11	43304	WATS_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/18/2024 11:13	20401	ASHF_T2	4	4	0	0.75	0.88	0.13	0	0	0	0	0	0	0	0
7/18/2024 11:13	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 11:13	20403	ASHF_T2	0	0	0	0	0	0	3.62	3.37	0	0	0	0	0	0
7/18/2024 11:14	46206	DANV_T2	56	62	6	0.54	0.49	-0.05	0	0	0	0	0	0	0	0
7/18/2024 11:14	46203	DANV_T2	0	0	0	0	0	0	-1.49	-1.43	0	0	0	0	0	0
7/18/2024 11:14	46204	DANV_T2	0	10	10	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 11:17	21206	ECAR_T2	4	11	7	1.9	1.9	0	0.81	0.82	0	0	0	0	0	0
7/18/2024 11:17	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 11:17	28403	HART_T2	0	0	0	0	0	0	-0.51	-0.57	1	1	0	900	900	0
7/18/2024 11:18	15702	TANN_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
7/18/2024 11:18	15703	TANN_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
7/18/2024 11:19	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/18/2024 11:19	41903	REED_T1	4	5	1	0.38	0.23	-0.15	0	0	0	0	0	0	0	0
7/18/2024 11:19	41902	REED_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
7/18/2024 11:20	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 11:20	21206	ECAR_T2	4	11	7	1.9	1.9	0	0.81	0.82	0	0	0	0	0	0
7/18/2024 11:21	41902	REED_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
7/18/2024 11:21	41903	REED_T1	4	5	1	0.38	0.23	-0.15	0	0	0	0	0	0	0	0
7/18/2024 11:22	65001	NEFF_T2	0	0	0	0	0	0	0.28	0.21	1	1	0	1200	1200	0
7/18/2024 11:22	15703	TANN_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
7/18/2024 11:22	15702	TANN_T2	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
7/18/2024 11:23	15703	TANN_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
7/18/2024 11:23	15702	TANN_T2	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
7/18/2024 11:25	43304	WATS_T2	1	1	0	0.6	0	-0.6	0.05	0.09	0	0	0	0	0	0
7/18/2024 11:26	51101	CARL_T1	1	1	0	7.9	7.7	-0.2	0	0	0	0	0	0	0	0
7/18/2024 11:26	51109	CARL_T1	0	0	0	0	0	0	-0.56	0.77	1	0	-1	1200	0	-1200
7/18/2024 11:26	51108	CARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/18/2024 11:29	52403	GRPA_T2	16	65	49	0.73	0.74	0.01	0.63	0.56	0	0	0	0	0	0
7/18/2024 11:30	22903	HARW_T1	19	21	2	0.31	0	-0.31	0	0	0	0	0	0	0	0
7/18/2024 11:30	22905	HARW_T1	0	4	4	0	0	0	-0.46	-0.47	0	0	0	0	0	0
7/18/2024 11:32	46101	MACI_T2	0	0	0	0	0	0	-0.77	-0.83	2	2	0	2400	2400	0
7/18/2024 11:32	42903	MIDD_T2	0	0	0	0	0	0	0.94	0.84	1	1	0	1200	1200	0
7/18/2024 11:33	55001	NEWP_T1	5	2	-3	0.54	0	-0.54	0	0	0	0	0	0	0	0
7/18/2024 11:33	55002	NEWP_T1	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
7/18/2024 11:37	55002	NEWP_T1	0	0	0	0	0	0	-0.1	-0.04	0	0	0	0	0	0
7/18/2024 11:37	55001	NEWP_T1	5	2	-3	0.54	0	-0.54	0	0	0	0	0	0	0	0
7/18/2024 11:38	55002	NEWP_T1	0	0	0	0	0	0	-0.05	-0.02	0	0	0	0	0	0
7/18/2024 11:38	55001	NEWP_T1	5	2	-3	0.54	0	-0.54	0	0	0	0	0	0	0	0
7/18/2024 11:38	64101	REFR_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
7/18/2024 11:41	44801	EDAN_T2	3	3	0	0.37	0.33	-0.04	-1.17	-1.15	0	0	0	0	0	0
7/18/2024 11:45	52403	GRPA_T2	57	4	-53	0.78	0.4	-0.38	0.56	0.1	0	0	0	0	0	0
7/18/2024 11:46	54503	ENOL_T2	0	0	0	0	0	0	-0.85	-0.83	1	1	0	600	600	0
7/18/2024 11:46	54504	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 11:55	58003	WCAR_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/18/2024 11:55	58001	WCAR_T1	3	3	0	0.1	0.2	0.1	0.26	0.36	0	0	0	0	0	0
7/18/2024 11:58	41602	CLEV_T1	13	7	-6	0.54	0.55	0.01	0	0	1	1	0	600	600	0
7/18/2024 12:02	13503	MCMI_T2	1	208	207	0.3	0.43	0.13	0.21	-0.7	0	0	0	0	0	0
7/18/2024 12:05	13503	MCMI_T2	1	208	207	0.3	0.43	0.13	0.21	-0.7	0	0	0	0	0	0
7/18/2024 12:07	45303	WBER_T2	0	0	0	0	0	0	-0.47	-0.53	0	0	0	0	0	0
7/18/2024 12:08	61102	BERK_T5	0	1	1	0	0	0	1.35	1.33	0	0	0	0	0	0
7/18/2024 12:08	60803	BUCK_T1	2	14	12	0.1	0.43	0.33	0	0	0	0	0	0	0	0
7/18/2024 12:08	60801	BUCK_T1	0	1	1	0	0.1	0.1	0.14	0.12	0	0	0	0	0	0
7/18/2024 12:09	49803	UNIV_T1	0	0	0	0	0	0	-1.69	-1.75	0	0	0	0	0	0
7/18/2024 12:09	49804	UNIV_T1	0	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0
7/18/2024 12:09	61102	BERK_T5	0	1	1	0	0	0	4.05	3.98	0	0	0	0	0	0
7/18/2024 12:10	61102	BERK_T5	0	1	1	0	0	0	2.7	2.66	0	0	0	0	0	0
7/18/2024 12:12	61102	BERK_T5	0	1	1	0	0	0	2.7	2.66	0	0	0	0	0	0
7/18/2024 12:15	61102	BERK_T5	0	0	0	0	0	0	1.35	1.33	0	0	0	0	0	0
7/18/2024 12:18	16902	MECK_T1	290	312	22	0.34	0.36	0.02	0.23	0.24	0	0	0	0	0	0
7/18/2024 12:18	16901	MECK_T1	207	240	33	0.29	0.33	0.04	0	0	0	0	0	0	0	0
7/18/2024 12:20	16902	MECK_T1	290	312	22	0.34	0.36	0.02	0.46	0.48	0	0	0	0	0	0
7/18/2024 12:20	48301	ORWI_T1	3	4	1	0.6	0.15	-0.45	1.31	1.27	0	0	0	0	0	0
7/18/2024 12:20	56501	ROCK_T2	1	1	0	0.3	0.5	0.2	-1.28	-1.22	0	0	0	0	0	0
7/18/2024 12:20	56504	ROCK_T2	2	3	1	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
7/18/2024 12:20	16901	MECK_T1	207	240	33	0.29	0.33	0.04	0	0	0	0	0	0	0	0
7/18/2024 12:23	67801	WLAN_T1	4	19	15	0.58	0.72	0.14	0.48	0.52	0	0	0	0	0	0
7/18/2024 12:23	67605	WARW_T1	0	1	1	0	0.7	0.7	-0.7	-0.67	0	0	0	0	0	0
7/18/2024 12:23	67804	WLAN_T1	0	8	8	0	0.2	0.2	0	0	0	0	0	0	0	0
7/18/2024 12:24	67801	WLAN_T1	4	19	15	0.58	0.72	0.14	0	0	0	0	0	0	0	0
7/18/2024 12:24	56501	ROCK_T2	1	1	0	0.3	0.5	0.2	-1.22	-1.16	0	0	0	0	0	0
7/18/2024 12:24	67803	WLAN_T1	0	0	0	0	0	0	-1.1	-1.11	0	0	0	0	0	0
7/18/2024 12:24	67605	WARW_T1	0	1	1	0	0.7	0.7	-0.7	-0.67	0	0	0	0	0	0
7/18/2024 12:24	67804	WLAN_T1	0	8	8	0	0.2	0.2	0	0	0	0	0	0	0	0
7/18/2024 12:24	56504	ROCK_T2	2	3	1	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
7/18/2024 12:25	67203	TEHI_T1	2	6	4	1.15	0.7	-0.45	0	0	0	0	0	0	0	0
7/18/2024 12:25	67201	TEHI_T1	0	0	0	0	0	0	0.72	0.73	1	1	0	600	600	0
7/18/2024 12:28	46803	HEPB_T2	1	1	0	0.6	0.4	-0.2	0.79	0.79	0	0	0	0	0	0
7/18/2024 12:28	46801	HEPB_T2	2	2	0	0.3	1.15	0.85	0	0	0	0	0	0	0	0
7/18/2024 12:30	46801	HEPB_T2	2	2	0	1.15	1	-0.15	0.27	0.29	0	0	0	0	0	0
7/18/2024 12:30	46803	HEPB_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/18/2024 12:33	46803	HEPB_T2	1	0	-1	0.4	0	-0.4	0.79	0.79	0	0	0	0	0	0
7/18/2024 12:33	46801	HEPB_T2	2	2	0	1.15	1	-0.15	0	0	0	0	0	0	0	0
7/18/2024 12:34	64203	KINZ_T1	1	2	1	0.7	0.75	0.05	0.26	0.31	3	3	0	2100	2100	0
7/18/2024 12:34	64204	KINZ_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/18/2024 12:34	64201	KINZ_T1	1	2	1	2.4	0.5	-1.9	0	0	0	0	0	0	0	0
7/18/2024 12:40	29402	BELT_T1	1	1	0	8.5	8.4	-0.1	0	0	0	0	0	0	0	0
7/18/2024 12:43	56801	BENV_T1	2	0	-2	0.25	0	-0.25	-0.32	-0.3	1	1	0	600	600	0
7/18/2024 12:43	56803	BENV_T1	4	3	-1	1.18	0.85	-0.33	0	0	0	0	0	0	0	0
7/18/2024 12:46	67701	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/18/2024 12:46	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/18/2024 12:47	16901	MECK_T1	226	239	13	0.28	0.3	0.02	0	0	0	0	0	0	0	0
7/18/2024 12:47	16902	MECK_T1	286	273	-13	0.34	0.32	-0.02	0.25	0.24	0	0	0	0	0	0
7/18/2024 12:49	47401	PENS_T1	1	3	2	0.3	0.5	0.2	0.49	0.53	0	0	0	0	0	0
7/18/2024 12:49	47402	PENS_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/18/2024 12:49	47403	PENS_T1	1	3	2	2.1	1.33	-0.77	0	0	0	0	0	0	0	0
7/18/2024 12:51	47401	PENS_T1	1	3	2	0.3	0.5	0.2	1.05	1.26	0	0	0	0	0	0
7/18/2024 12:51	47402	PENS_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/18/2024 12:51	47403	PENS_T1	1	3	2	2.1	1.33	-0.77	0	0	0	0	0	0	0	0
7/18/2024 12:52	48301	ORWI_T1	1	4	3	0.3	0.53	0.23	2.24	2.18	0	0	0	0	0	0
7/18/2024 12:55	60801	BUCK_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
7/18/2024 12:55	60803	BUCK_T1	7	5	-2	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
7/18/2024 12:56	41602	CLEV_T1	3	7	4	0.5	0.46	-0.04	0	0	1	1	0	600	600	0
7/18/2024 13:00	44801	EDAN_T2	1	2	1	0.9	0.8	-0.1	-1.1	-1.18	0	0	0	0	0	0
7/18/2024 13:03	40101	HUNT_T2	18	35	17	0.32	0.25	-0.07	-0.19	-0.15	0	0	0	0	0	0
7/18/2024 13:04	56501	ROCK_T2	1	7	6	1.1	0.37	-0.73	-1.14	-1.09	0	0	0	0	0	0
7/18/2024 13:04	56504	ROCK_T2	3	2	-1	0.57	0	-0.57	0	0	0	0	0	0	0	0
7/18/2024 13:05	56501	ROCK_T2	1	7	6	1.1	0.37	-0.73	-1.14	-1.09	0	0	0	0	0	0
7/18/2024 13:05	56504	ROCK_T2	3	2	-1	0.57	0	-0.57	0	0	0	0	0	0	0	0
7/18/2024 13:05	44801	EDAN_T2	1	2	1	0.9	0.8	-0.1	-1.1	-1.18	0	0	0	0	0	0
7/18/2024 13:07	56501	ROCK_T2	1	7	6	1.1	0.37	-0.73	-1.09	-2.3	0	0	0	0	0	0
7/18/2024 13:07	56504	ROCK_T2	3	2	-1	0.57	0	-0.57	0	0	0	0	0	0	0	0
7/18/2024 13:07	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 13:08	56504	ROCK_T2	3	2	-1	0.57	0	-0.57	0	0	0	0	0	0	0	0
7/18/2024 13:08	56501	ROCK_T2	1	7	6	1.1	0.37	-0.73	-1.09	-2.3	0	0	0	0	0	0
7/18/2024 13:11	43301	WATS_T2	1	1	0	0.4	0.2	-0.2	-0.13	-0.13	1	1	0	900	900	0
7/18/2024 13:12	54505	ENOL_T2	0	0	0	0	0	0	-0.81	-0.75	1	1	0	600	600	0
7/18/2024 13:16	52002	LING_T2	0	5	5	0	0.2	0.2	0.78	0.79	0	0	0	0	0	0
7/18/2024 13:16	52004	LING_T2	2	2	0	2.45	2.5	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/18/2024 13:17	64204	KINZ_T1	1	2	1	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
7/18/2024 13:17	64203	KINZ_T1	2	2	0	1	1.25	0.25	0	0	0	0	0	0	0	0
7/18/2024 13:17	52004	LING_T2	2	2	0	2.45	2.5	0.05	0	0	0	0	0	0	0	0
7/18/2024 13:17	52002	LING_T2	0	5	5	0	0.2	0.2	0.78	0.79	0	0	0	0	0	0
7/18/2024 13:17	64201	KINZ_T1	1	1	0	0.6	0.2	-0.4	0.31	0.39	4	4	0	2100	2100	0
7/18/2024 13:18	52004	LING_T2	2	2	0	2.45	2.5	0.05	0	0	0	0	0	0	0	0
7/18/2024 13:18	52002	LING_T2	0	5	5	0	0.2	0.2	2.33	2.38	0	0	0	0	0	0
7/18/2024 13:18	63804	HEMP_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
7/18/2024 13:18	63802	HEMP_T1	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
7/18/2024 13:18	52001	LING_T1	0	0	0	0	0	0	0.81	0.81	0	0	0	0	0	0
7/18/2024 13:18	52003	LING_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 13:20	52501	PROG_T1	0	2	2	0	0.3	0.3	-0.7	-0.61	1	1	0	300	300	0
7/18/2024 13:21	47403	PENS_T1	2	5	3	0.85	0.66	-0.19	0	0	0	0	0	0	0	0
7/18/2024 13:21	47401	PENS_T1	3	4	1	0.57	0.83	0.26	0.61	0.73	0	0	0	0	0	0
7/18/2024 13:21	47402	PENS_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
7/18/2024 13:24	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 13:24	67505	WEWI_T1	0	0	0	0	0	0	0.66	0.63	1	1	0	900	900	0
7/18/2024 13:24	23001	SAJO_T1	0	0	0	0	0	0	-0.62	-0.58	0	0	0	0	0	0
7/18/2024 13:24	23002	SAJO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/18/2024 13:24	67501	WEWI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/18/2024 13:25	42902	MIDD_T2	1	1	0	0.7	0	-0.7	0.02	-0.06	1	1	0	600	600	0
7/18/2024 13:31	52002	LING_T2	3	5	2	0.2	0.28	0.08	0.79	0.84	0	0	0	0	0	0
7/18/2024 13:31	40101	HUNT_T2	35	81	46	0.37	0.4	0.03	-0.15	-0.16	0	0	0	0	0	0
7/18/2024 13:31	52004	LING_T2	2	2	0	2.5	2.15	-0.35	0	0	0	0	0	0	0	0
7/18/2024 13:32	52002	LING_T2	3	5	2	0.2	0.28	0.08	0.79	0.84	0	0	0	0	0	0
7/18/2024 13:32	52004	LING_T2	2	2	0	2.5	2.15	-0.35	0	0	0	0	0	0	0	0
7/18/2024 13:35	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 13:37	54001	SDLE_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
7/18/2024 13:38	67605	WARW_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
7/18/2024 13:38	43301	WATS_T2	0	1	1	0	0.4	0.4	-0.09	-0.1	1	1	0	900	900	0
7/18/2024 13:38	55101	WERT_T1	0	4	4	0	0.35	0.35	-3.35	-3.49	8	8	0	6600	6600	0
7/18/2024 13:38	54001	SDLE_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
7/18/2024 13:40	54001	SDLE_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
7/18/2024 13:43	20601	GRWO_T2	18	31	13	0.54	0.6	0.06	0.3	0.4	0	0	0	0	0	0
7/18/2024 13:43	41602	CLEV_T1	1	2	1	0.5	0.6	0.1	0	0	1	1	0	600	600	0
7/18/2024 13:44	26401	INOR_T1	4	9	5	2.03	1.53	-0.5	1.54	1.54	0	0	0	0	0	0
7/18/2024 13:44	26402	INOR_T1	1	4	3	1.7	1.1	-0.6	0	0	0	0	0	0	0	0
7/18/2024 13:44	20601	GRWO_T2	18	31	13	0.54	0.6	0.06	0.6	0.8	0	0	0	0	0	0
7/18/2024 13:45	52402	GRPA_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
7/18/2024 13:45	52403	GRPA_T2	4	50	46	1.13	0.6	-0.53	0.19	0.09	0	0	0	0	0	0
7/18/2024 13:50	55101	WERT_T1	4	2	-2	0.28	0	-0.28	-1.68	-1.75	4	4	0	3300	3300	0
7/18/2024 13:55	59101	WALK_T2	0	0	0	0	0	0	3.82	3.18	0	0	0	0	0	0
7/18/2024 13:58	25601	ARRO_T1	0	0	0	0	0	0	0.86	0.85	0	0	0	0	0	0
7/18/2024 13:59	22901	HARW_T1	14	9	-5	0.37	0.2	-0.17	0.14	0.06	1	1	0	1200	1200	0
7/18/2024 14:00	22901	HARW_T1	9	11	2	0.42	0.2	-0.22	0.14	0.06	1	1	0	1200	1200	0
7/18/2024 14:01	22904	HARW_T1	0	0	0	0	0	0	-0.45	-0.39	0	0	0	0	0	0
7/18/2024 14:01	22901	HARW_T1	9	11	2	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
7/18/2024 14:01	58001	WCAR_T1	0	2	2	0	0.1	0.1	0.37	0.41	0	0	0	0	0	0
7/18/2024 14:01	58003	WCAR_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/18/2024 14:03	48303	ORWI_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
7/18/2024 14:05	16204	POFA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/18/2024 14:05	52402	GRPA_T2	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
7/18/2024 14:05	16202	POFA_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/18/2024 14:05	52403	GRPA_T2	45	57	12	0.6	0.73	0.13	0.09	0.09	0	0	0	0	0	0
7/18/2024 14:06	47403	PENS_T1	0	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0
7/18/2024 14:06	47401	PENS_T1	4	4	0	0.43	0.5	0.07	0.54	0.63	0	0	0	0	0	0
7/18/2024 14:08	47401	PENS_T1	4	4	0	0.43	0.5	0.07	1.08	1.26	0	0	0	0	0	0
7/18/2024 14:08	48303	ORWI_T2	0	0	0	0	0	0	0.37	0.46	0	0	0	0	0	0
7/18/2024 14:08	47802	MOCA_T2	0	0	0	0	0	0	-0.43	-0.47	0	0	0	0	0	0
7/18/2024 14:08	47403	PENS_T1	0	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0
7/18/2024 14:09	43301	WATS_T2	1	1	0	0.4	0	-0.4	-0.06	-0.02	1	1	0	900	900	0
7/18/2024 14:14	63803	HEMP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/18/2024 14:14	63804	HEMP_T1	1	2	1	6.9	3.6	-3.3	0.48	0.53	0	0	0	0	0	0
7/18/2024 14:14	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/18/2024 14:18	44203	POIN_T2	7	9	2	0.4	0.25	-0.15	0.29	0.36	2	2	0	2100	2100	0
7/18/2024 14:18	47401	PENS_T1	4	4	0	0.43	0.33	-0.1	0.54	0.63	0	0	0	0	0	0
7/18/2024 14:18	47403	PENS_T1	1	2	1	1.5	1.25	-0.25	0	0	0	0	0	0	0	0
7/18/2024 14:18	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 14:18	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 14:19	44203	POIN_T2	7	9	2	0.4	0.25	-0.15	0.29	0.36	2	2	0	2100	2100	0
7/18/2024 14:19	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 14:20	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 14:20	48302	ORWI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/18/2024 14:20	55101	WERT_T1	0	0	0	0	0	0	-1.7	-1.85	4	4	0	3300	3300	0
7/18/2024 14:20	40602	PIGR_T1	3	3	0	2.27	1.73	-0.54	0	0	0	0	0	0	0	0
7/18/2024 14:20	40603	PIGR_T1	1	2	1	0.2	0.5	0.3	0.69	0.74	0	0	0	0	0	0
7/18/2024 14:20	52004	LING_T2	2	2	0	2.6	2.5	-0.1	0.63	0.65	0	0	0	0	0	0
7/18/2024 14:21	42201	SHEN_T2	1	0	-1	0.1	0	-0.1	0.45	0.48	2	2	0	1200	1200	0
7/18/2024 14:21	42203	SHEN_T2	1	0	-1	6.6	0	-6.6	0	0	0	0	0	0	0	0
7/18/2024 14:22	59101	WALK_T2	0	0	0	0	0	0	1.02	1.07	0	0	0	0	0	0
7/18/2024 14:22	55101	WERT_T1	0	0	0	0	0	0	-1.85	-1.67	4	4	0	3300	3300	0
7/18/2024 14:22	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 14:23	55101	WERT_T1	0	0	0	0	0	0	-1.85	-1.67	4	4	0	3300	3300	0
7/18/2024 14:23	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 14:24	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 14:24	43304	WATS_T2	0	0	0	0	0	0	-0.57	-0.63	1	1	0	600	600	0
7/18/2024 14:31	16902	MECK_T1	285	219	-66	0.36	0.26	-0.1	0.26	0.28	0	0	0	0	0	0
7/18/2024 14:31	16901	MECK_T1	204	138	-66	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
7/18/2024 14:31	48902	FOSP_T2	0	0	0	0	0	0	-0.56	0.56	1	0	-1	1200	0	-1200
7/18/2024 14:33	48902	FOSP_T2	0	0	0	0	0	0	-0.56	0.56	1	0	-1	1200	0	-1200
7/18/2024 14:35	47401	PENS_T1	2	5	3	0.5	0.3	-0.2	0.63	0.76	0	0	0	0	0	0
7/18/2024 14:35	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 14:35	47403	PENS_T1	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
7/18/2024 14:36	44202	POIN_T2	0	1	1	0	0.5	0.5	-0.73	-0.8	2	2	0	1800	1800	0
7/18/2024 14:36	44203	POIN_T2	5	6	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/18/2024 14:37	17002	HIRO_T2	2	0	-2	0.35	0	-0.35	1.09	1.07	0	0	0	0	0	0
7/18/2024 14:38	59101	WALK_T2	0	0	0	0	0	0	1.07	1.17	0	0	0	0	0	0
7/18/2024 14:40	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 14:40	46206	DANV_T2	3	3	0	0.9	2	1.1	0	0	0	0	0	0	0	0
7/18/2024 14:40	55101	WERT_T1	0	0	0	0	0	0	-1.67	-1.8	4	4	0	3300	3300	0
7/18/2024 14:40	42601	TUSC_T1	0	0	0	0	0	0	-1.88	-1.58	3	2	-1	2400	1800	-600
7/18/2024 14:40	46203	DANV_T2	0	0	0	0	0	0	-1.23	-1.18	0	0	0	0	0	0
7/18/2024 14:41	46206	DANV_T2	3	3	0	0.9	2	1.1	0	0	0	0	0	0	0	0
7/18/2024 14:41	59102	WALK_T2	0	0	0	0	0	0	0.18	0.15	1	1	0	600	600	0
7/18/2024 14:41	46203	DANV_T2	0	0	0	0	0	0	-1.23	-1.18	0	0	0	0	0	0
7/18/2024 14:41	51802	EBEN_T2	3	4	1	0.13	0	-0.13	0.63	0.75	1	1	0	900	900	0
7/18/2024 14:45	46203	DANV_T2	0	0	0	0	0	0	-1.23	-1.18	0	0	0	0	0	0
7/18/2024 14:45	46206	DANV_T2	2	2	0	1.25	1.8	0.55	0	0	0	0	0	0	0	0
7/18/2024 14:45	52403	GRPA_T2	42	84	42	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
7/18/2024 14:45	52402	GRPA_T2	2	2	0	0.45	0.1	-0.35	-0.55	-0.55	0	0	0	0	0	0
7/18/2024 14:45	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 14:45	52401	GRPA_T2	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
7/18/2024 14:45	52404	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/18/2024 14:47	52401	GRPA_T2	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
7/18/2024 14:47	52402	GRPA_T2	2	2	0	0.45	0.1	-0.35	-1.11	-1.11	0	0	0	0	0	0
7/18/2024 14:47	52403	GRPA_T2	42	84	42	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
7/18/2024 14:47	52404	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/18/2024 14:48	52404	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/18/2024 14:48	52402	GRPA_T2	2	2	0	0.45	0.1	-0.35	-0.55	-0.55	0	0	0	0	0	0
7/18/2024 14:48	52401	GRPA_T2	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
7/18/2024 14:48	52403	GRPA_T2	42	84	42	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
7/18/2024 14:52	43302	WATS_T2	0	0	0	0	0	0	-0.04	-0.2	2	2	0	1800	1800	0
7/18/2024 14:52	43304	WATS_T2	0	1	1	0	0	0	-1.62	-0.36	2	0	-2	1200	0	-1200
7/18/2024 14:53	42201	SHEN_T2	0	1	1	0	0.1	0.1	0.25	0.23	1	1	0	600	600	0
7/18/2024 14:54	56802	BENV_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
7/18/2024 14:54	64101	REFR_T1	0	0	0	0	0	0	0.42	0.49	0	0	0	0	0	0
7/18/2024 14:55	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 14:55	56802	BENV_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
7/18/2024 14:55	43301	WATS_T2	0	0	0	0	0	0	-0.07	-0.08	1	1	0	900	900	0
7/18/2024 14:55	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 14:55	46206	DANV_T2	2	2	0	1.25	1.8	0.55	0.82	0.85	2	2	0	2100	2100	0
7/18/2024 14:56	12305	LANA_T2	11	9	-2	1.92	0.51	-1.41	0	0	0	0	0	0	0	0
7/18/2024 14:56	12304	LANA_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/18/2024 14:56	56802	BENV_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
7/18/2024 14:56	43304	WATS_T2	0	1	1	0	0	0	-0.81	-0.18	1	0	-1	600	0	-600
7/18/2024 14:56	12301	LANA_T2	1	1	0	1.5	0.3	-1.2	-0.82	-0.84	0	0	0	0	0	0
7/18/2024 14:57	56802	BENV_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
7/18/2024 14:57	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 14:57	46203	DANV_T2	0	0	0	0	0	0	-2.37	-2.42	0	0	0	0	0	0
7/18/2024 14:57	46206	DANV_T2	2	2	0	1.25	1.8	0.55	0	0	0	0	0	0	0	0
7/18/2024 15:01	45702	LIND_T2	3	3	0	0.63	0.73	0.1	-1.21	-1.24	0	0	0	0	0	0
7/18/2024 15:02	40101	HUNT_T2	16	92	76	0.34	0.44	0.1	-0.02	-0.07	0	0	0	0	0	0
7/18/2024 15:03	40101	HUNT_T2	16	92	76	0.34	0.44	0.1	-0.02	-0.07	0	0	0	0	0	0
7/18/2024 15:03	63201	MGTN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 15:03	63202	MGTN_T2	0	0	0	0	0	0	-0.84	-0.89	1	1	0	900	900	0
7/18/2024 15:07	11101	EGYP_T1	4	5	1	0.83	0.44	-0.39	0	0	0	0	0	0	0	0
7/18/2024 15:07	66103	REAM_T2	0	0	0	0	0	0	0.84	0.82	1	1	0	1200	1200	0
7/18/2024 15:07	11102	EGYP_T1	3	3	0	0.83	1.2	0.37	0.39	0.43	0	0	0	0	0	0
7/18/2024 15:07	11104	EGYP_T1	5	5	0	1.18	1.36	0.18	0	0	0	0	0	0	0	0
7/18/2024 15:08	64101	REFR_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
7/18/2024 15:10	11104	EGYP_T1	5	5	0	1.18	1.36	0.18	0	0	0	0	0	0	0	0
7/18/2024 15:10	11103	EGYP_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
7/18/2024 15:10	11102	EGYP_T1	3	3	0	0.83	1.2	0.37	0	0	0	0	0	0	0	0
7/18/2024 15:10	11101	EGYP_T1	4	5	1	0.83	0.44	-0.39	0	0	0	0	0	0	0	0
7/18/2024 15:11	51305	WIND_T1	0	1	1	0	0.6	0.6	-0.1	-0.1	0	0	0	0	0	0
7/18/2024 15:11	51303	WIND_T1	12	2	-10	0.12	0	-0.12	0	0	0	0	0	0	0	0
7/18/2024 15:12	56802	BENV_T2	0	0	0	0	0	0	-0.67	-0.64	0	0	0	0	0	0
7/18/2024 15:16	53802	MBRG_T2	0	1	1	0	0	0	0.49	0.4	0	0	0	0	0	0
7/18/2024 15:17	53502	EVIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/18/2024 15:17	53501	EVIL_T2	1	1	0	0.9	0.2	-0.7	-0.39	-0.41	3	3	0	1400	1400	0
7/18/2024 15:23	59101	WALK_T2	0	0	0	0	0	0	0.77	0.85	0	0	0	0	0	0
7/18/2024 15:23	67605	WARW_T1	0	0	0	0	0	0	-1.05	-1.13	0	0	0	0	0	0
7/18/2024 15:28	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/18/2024 15:33	42902	MIDD_T2	0	1	1	0	0.4	0.4	-0.38	-0.38	1	1	0	600	600	0
7/18/2024 15:33	42901	MIDD_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 15:33	42903	MIDD_T2	2	2	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/18/2024 15:34	44202	POIN_T2	1	1	0	0.2	0	-0.2	-0.79	-0.75	2	2	0	1800	1800	0
7/18/2024 15:34	44203	POIN_T2	5	16	11	0.18	0.37	0.19	0	0	0	0	0	0	0	0
7/18/2024 15:35	44202	POIN_T2	1	1	0	0.2	0	-0.2	-0.79	-0.75	2	2	0	1800	1800	0
7/18/2024 15:35	44203	POIN_T2	5	16	11	0.18	0.37	0.19	0	0	0	0	0	0	0	0
7/18/2024 15:38	27605	PIRI_T2	70	92	22	0.52	0.51	-0.01	1.57	1.47	0	0	0	0	0	0
7/18/2024 15:38	59101	WALK_T2	0	0	0	0	0	0	0.85	0.73	0	0	0	0	0	0
7/18/2024 15:39	16301	ALPA_T1	0	0	0	0	0	0	0.67	0.58	0	0	0	0	0	0
7/18/2024 15:39	16302	ALPA_T2	0	0	0	0	0	0	0.85	0.35	0	0	0	0	0	0
7/18/2024 15:40	16302	ALPA_T2	0	0	0	0	0	0	0.28	0.12	0	0	0	0	0	0
7/18/2024 15:40	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 15:40	40302	TAMA_T3	2	3	1	0.25	0.3	0.05	-1.06	-1.07	1	1	0	1200	1200	0
7/18/2024 15:47	52001	LING_T1	0	0	0	0	0	0	0.96	0.97	0	0	0	0	0	0
7/18/2024 15:48	49804	UNIV_T1	0	0	0	0	0	0	1.22	1.65	0	0	0	0	0	0
7/18/2024 15:50	64101	REFR_T1	0	0	0	0	0	0	0.91	1	0	0	0	0	0	0
7/18/2024 15:50	41301	FISH_T1	2	2	0	2.4	1.75	-0.65	-0.28	-0.29	0	0	0	0	0	0
7/18/2024 15:55	46206	DANV_T2	2	59	57	1.05	0.69	-0.36	0	0	0	0	0	0	0	0
7/18/2024 15:55	46203	DANV_T2	1	4	3	0.3	0.5	0.2	-1.17	-1.18	0	0	0	0	0	0
7/18/2024 15:55	46204	DANV_T2	0	16	16	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 15:55	42701	AUGU_T1	4	7	3	0.35	0.57	0.22	0	0	2	2	0	1800	1800	0
7/18/2024 15:56	59101	WALK_T2	0	0	0	0	0	0	0.73	0.67	0	0	0	0	0	0
7/18/2024 15:58	46204	DANV_T2	0	16	16	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 15:58	42701	AUGU_T1	4	7	3	0.35	0.57	0.22	0	0	2	2	0	1800	1800	0
7/18/2024 15:58	54503	ENOL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/18/2024 15:58	46206	DANV_T2	2	59	57	1.05	0.69	-0.36	0	0	0	0	0	0	0	0
7/18/2024 15:58	46203	DANV_T2	1	4	3	0.3	0.5	0.2	-1.17	-1.18	0	0	0	0	0	0
7/18/2024 15:58	54504	ENOL_T2	0	0	0	0	0	0	-1.24	-1.24	1	1	0	600	600	0
7/18/2024 15:59	63501	HEID_TBK1-2	0	0	0	0	0	0	0.44	0.47	1	1	0	900	900	0
7/18/2024 15:59	54504	ENOL_T2	0	0	0	0	0	0	-1.24	-1.24	1	1	0	600	600	0
7/18/2024 15:59	46204	DANV_T2	0	16	16	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 15:59	46203	DANV_T2	1	4	3	0.3	0.5	0.2	-1.17	-1.18	0	0	0	0	0	0
7/18/2024 15:59	54503	ENOL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/18/2024 15:59	46206	DANV_T2	2	59	57	1.05	0.69	-0.36	0	0	0	0	0	0	0	0
7/18/2024 16:00	46203	DANV_T2	3	4	1	0.57	0.43	-0.14	-1.17	-1.18	0	0	0	0	0	0
7/18/2024 16:00	46206	DANV_T2	21	89	68	0.67	0.69	0.02	0	0	0	0	0	0	0	0
7/18/2024 16:00	46204	DANV_T2	0	17	17	0	0.33	0.33	0	0	0	0	0	0	0	0
7/18/2024 16:01	42701	AUGU_T1	4	10	6	0.5	0.37	-0.13	0	0	2	2	0	1800	1800	0
7/18/2024 16:01	23403	HONE_T1	0	0	0	0	0	0	0.26	0.11	0	0	0	0	0	0
7/18/2024 16:05	66505	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/18/2024 16:05	66504	SMAN_T2	0	1	1	0	0.1	0.1	1.81	1.94	0	0	0	0	0	0
7/18/2024 16:05	65205	PRIN_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
7/18/2024 16:06	66505	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/18/2024 16:06	66504	SMAN_T2	0	1	1	0	0.1	0.1	0.97	1.05	0	0	0	0	0	0
7/18/2024 16:06	64101	REFR_T1	0	0	0	0	0	0	1	1.09	0	0	0	0	0	0
7/18/2024 16:10	22002	BOHE_T1	0	0	0	0	0	0	0.75	0.66	0	0	0	0	0	0
7/18/2024 16:10	22003	BOHE_T1	0	4	4	0	0.5	0.5	0	0	0	0	0	0	0	0
7/18/2024 16:12	56803	BENV_T1	5	6	1	1.26	1.28	0.02	0	0	0	0	0	0	0	0
7/18/2024 16:12	56801	BENV_T1	1	1	0	0.2	0.3	0.1	-0.12	-0.07	1	1	0	600	600	0
7/18/2024 16:14	46206	DANV_T2	21	89	68	0.67	0.69	0.02	1.88	2.22	2	2	0	2100	2100	0
7/18/2024 16:14	46203	DANV_T2	3	4	1	0.57	0.43	-0.14	0	0	0	0	0	0	0	0
7/18/2024 16:14	46204	DANV_T2	0	17	17	0	0.33	0.33	0	0	0	0	0	0	0	0
7/18/2024 16:15	63501	HEID_TBK1-2	0	0	0	0	0	0	0.47	0.47	1	1	0	900	900	0
7/18/2024 16:16	20601	GRWO_T2	6	42	36	0.4	0.39	-0.01	0	0	0	0	0	0	0	0
7/18/2024 16:16	20603	GRWO_T2	0	0	0	0	0	0	-0.24	-0.28	1	1	0	900	900	0
7/18/2024 16:17	53802	MBRG_T2	0	0	0	0	0	0	0.34	1.4	0	0	0	0	0	0
7/18/2024 16:17	63501	HEID_TBK1-2	0	0	0	0	0	0	0.47	0.47	1	1	0	900	900	0
7/18/2024 16:19	63401	HONY_T1	0	0	0	0	0	0	0.44	0.54	1	1	0	600	600	0
7/18/2024 16:19	53802	MBRG_T2	0	0	0	0	0	0	0.34	1.4	0	0	0	0	0	0
7/18/2024 16:20	63401	HONY_T1	0	0	0	0	0	0	0.89	1.08	2	2	0	1200	1200	0
7/18/2024 16:21	64101	REFR_T1	0	1	1	0	0	0	0.54	0.54	0	0	0	0	0	0
7/18/2024 16:22	64101	REFR_T1	0	1	1	0	0	0	0.54	0.54	0	0	0	0	0	0
7/18/2024 16:23	67605	WARW_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/18/2024 16:23	67603	WARW_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
7/18/2024 16:24	49803	UNIV_T1	0	0	0	0	0	0	-1.54	-1.5	0	0	0	0	0	0
7/18/2024 16:24	42501	ALTA_T2	0	0	0	0	0	0	-0.65	-0.65	1	1	0	600	600	0
7/18/2024 16:25	24902	WHHA_T1	2	5	3	0.8	1.3	0.5	0	0	0	0	0	0	0	0
7/18/2024 16:25	67602	WARW_T2	0	2	2	0	0	0	1	1.03	4	4	0	3000	3000	0
7/18/2024 16:25	24901	WHHA_T1	1	1	0	0	0	0	-0.31	-0.35	0	0	0	0	0	0
7/18/2024 16:26	64802	MONE_T2	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
7/18/2024 16:26	43304	WATS_T2	1	11	10	0.2	0.5	0.3	-0.5	-0.49	1	1	0	600	600	0
7/18/2024 16:26	24902	WHHA_T1	2	5	3	0.8	1.3	0.5	0	0	0	0	0	0	0	0
7/18/2024 16:26	24901	WHHA_T1	1	1	0	0	0	0	-0.31	-0.35	0	0	0	0	0	0
7/18/2024 16:27	42501	ALTA_T2	0	0	0	0	0	0	-0.65	-0.65	1	1	0	600	600	0
7/18/2024 16:27	42503	ALTA_T2	0	0	0	0	0	0	-0.46	-0.42	0	0	0	0	0	0
7/18/2024 16:31	53501	EVIL_T2	1	2	1	0.8	0.65	-0.15	-0.52	-0.62	2	2	0	1200	1200	0
7/18/2024 16:31	51401	LYKE_T1	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
7/18/2024 16:32	40101	HUNT_T2	133	175	42	0.54	0.53	-0.01	-0.09	-0.11	0	0	0	0	0	0
7/18/2024 16:32	51401	LYKE_T1	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
7/18/2024 16:36	56501	ROCK_T2	52	7	-45	0.23	0.24	0.01	0	0	0	0	0	0	0	0
7/18/2024 16:36	56504	ROCK_T2	0	3	3	0	0	0	0.87	0.86	0	0	0	0	0	0
7/18/2024 16:37	67602	WARW_T2	0	2	2	0	0	0	0.51	0.5	2	2	0	1500	1500	0
7/18/2024 16:37	56501	ROCK_T2	52	7	-45	0.23	0.24	0.01	0	0	0	0	0	0	0	0
7/18/2024 16:37	56504	ROCK_T2	0	3	3	0	0	0	0.43	0.47	0	0	0	0	0	0
7/18/2024 16:38	11101	EGYP_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/18/2024 16:38	11102	EGYP_T1	3	4	1	0.77	1.2	0.43	0	0	0	0	0	0	0	0
7/18/2024 16:38	56504	ROCK_T2	0	3	3	0	0	0	0.43	0.47	0	0	0	0	0	0
7/18/2024 16:38	67602	WARW_T2	0	2	2	0	0	0	0.51	0.5	2	2	0	1500	1500	0
7/18/2024 16:38	67402	WAKE_T2	0	0	0	0	0	0	0.56	0.6	2	2	0	1200	1200	0
7/18/2024 16:38	56501	ROCK_T2	52	7	-45	0.23	0.24	0.01	0	0	0	0	0	0	0	0
7/18/2024 16:38	11104	EGYP_T1	8	8	0	1.2	1.77	0.57	1.02	1.01	0	0	0	0	0	0
7/18/2024 16:38	11103	EGYP_T1	1	1	0	2.3	0	-2.3	0	0	0	0	0	0	0	0
7/18/2024 16:39	67602	WARW_T2	0	2	2	0	0	0	0.51	0.5	2	2	0	1500	1500	0
7/18/2024 16:40	11102	EGYP_T1	3	4	1	0.77	1.2	0.43	0	0	0	0	0	0	0	0
7/18/2024 16:40	11101	EGYP_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/18/2024 16:40	11103	EGYP_T1	1	1	0	2.3	0	-2.3	0	0	0	0	0	0	0	0
7/18/2024 16:40	67602	WARW_T2	0	2	2	0	0	0	1.03	1.01	4	4	0	3000	3000	0
7/18/2024 16:40	11104	EGYP_T1	8	8	0	1.2	1.77	0.57	1.02	1.01	0	0	0	0	0	0
7/18/2024 16:41	11102	EGYP_T1	3	4	1	0.77	1.2	0.43	0	0	0	0	0	0	0	0
7/18/2024 16:41	11103	EGYP_T1	1	1	0	2.3	0	-2.3	0	0	0	0	0	0	0	0
7/18/2024 16:41	11101	EGYP_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/18/2024 16:41	11104	EGYP_T1	8	8	0	1.2	1.77	0.57	1.02	1.01	0	0	0	0	0	0
7/18/2024 16:46	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/18/2024 16:46	64204	KINZ_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
7/18/2024 16:46	64203	KINZ_T1	1	1	0	0.1	0.5	0.4	-0.04	-0.13	3	2	-1	2100	900	-1200
7/18/2024 16:46	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 16:47	12701	MACU_T1	4	1	-3	0.4	0	-0.4	-0.67	-0.7	1	1	0	1200	1200	0
7/18/2024 16:48	51401	LYKE_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
7/18/2024 16:48	52004	LING_T2	2	2	0	2.45	2.35	-0.1	0.2	0.22	0	0	0	0	0	0
7/18/2024 16:48	52006	LING_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/18/2024 16:51	12701	MACU_T1	4	1	-3	0.4	0	-0.4	-0.7	-0.73	1	1	0	1200	1200	0
7/18/2024 16:51	58402	MORO_T1	4	5	1	1.23	0.85	-0.38	-0.69	-0.76	5	5	0	3150	3150	0
7/18/2024 16:53	49803	UNIV_T1	0	0	0	0	0	0	-1.45	-1.48	0	0	0	0	0	0
7/18/2024 16:54	49803	UNIV_T1	0	0	0	0	0	0	-1.45	-1.48	0	0	0	0	0	0
7/18/2024 16:58	56504	ROCK_T2	0	5	5	0	0.93	0.93	0.47	0.45	0	0	0	0	0	0
7/18/2024 16:58	56501	ROCK_T2	7	6	-1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
7/18/2024 16:59	66902	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/18/2024 16:59	66901	SHIL_T2	0	87	87	0	0.18	0.18	-0.79	-0.74	1	1	0	1200	1200	0
7/18/2024 17:02	47101	MARL_T1	49	35	-14	1.13	0.72	-0.41	0.03	0.05	0	0	0	0	0	0
7/18/2024 17:03	47101	MARL_T1	49	35	-14	1.13	0.72	-0.41	0.08	0.14	0	0	0	0	0	0
7/18/2024 17:04	47101	MARL_T1	49	35	-14	1.13	0.72	-0.41	0.03	0.05	0	0	0	0	0	0
7/18/2024 17:05	47101	MARL_T1	49	35	-14	1.13	0.72	-0.41	0.03	0.05	0	0	0	0	0	0
7/18/2024 17:11	56803	BENV_T1	9	6	-3	1.36	1.03	-0.33	0	0	0	0	0	0	0	0
7/18/2024 17:11	56801	BENV_T1	2	2	0	0.35	0.3	-0.05	-0.04	-0.04	1	1	0	600	600	0
7/18/2024 17:12	56801	BENV_T1	2	2	0	0.35	0.3	-0.05	-0.04	-0.04	1	1	0	600	600	0
7/18/2024 17:12	56803	BENV_T1	9	6	-3	1.36	1.03	-0.33	0	0	0	0	0	0	0	0
7/18/2024 17:13	56803	BENV_T1	9	6	-3	1.36	1.03	-0.33	0	0	0	0	0	0	0	0
7/18/2024 17:13	48602	POCA_T1	0	0	0	0	0	0	0.23	0.25	1	1	0	1200	1200	0
7/18/2024 17:13	12002	HATF_T1	0	0	0	0	0	0	-0.66	-0.58	1	1	0	1200	1200	0
7/18/2024 17:13	12001	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/18/2024 17:13	56801	BENV_T1	2	2	0	0.35	0.3	-0.05	-0.08	-0.08	2	2	0	1200	1200	0
7/18/2024 17:14	56801	BENV_T1	2	2	0	0.35	0.3	-0.05	-0.2	-0.21	5	5	0	3000	3000	0
7/18/2024 17:14	56803	BENV_T1	9	6	-3	1.36	1.03	-0.33	0	0	0	0	0	0	0	0
7/18/2024 17:15	56803	BENV_T1	6	4	-2	1	0.47	-0.53	0	0	0	0	0	0	0	0
7/18/2024 17:15	56801	BENV_T1	1	3	2	0.3	0.7	0.4	-0.04	-0.04	1	1	0	600	600	0
7/18/2024 17:20	57401	SPAN_T1	1	1	0	0.2	0	-0.2	-0.78	-0.94	1	1	0	600	600	0
7/18/2024 17:20	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 17:22	57401	SPAN_T1	1	1	0	0.2	0	-0.2	-0.94	-0.75	1	1	0	600	600	0
7/18/2024 17:22	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 17:22	67602	WARW_T2	0	0	0	0	0	0	0.46	0.42	2	2	0	1500	1500	0
7/18/2024 17:23	67601	WARW_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
7/18/2024 17:25	46102	MACI_T1	0	0	0	0	0	0	1.03	1.02	0	0	0	0	0	0
7/18/2024 17:25	44301	BEAV_T2	11	32	21	0.41	0.42	0.01	0.02	0	1	1	0	600	600	0
7/18/2024 17:28	44301	BEAV_T2	11	32	21	0.41	0.42	0.01	0.02	0	1	1	0	600	600	0
7/18/2024 17:34	64305	LINC_T1	1	1	0	0.8	0.8	0	0.14	0.14	0	0	0	0	0	0
7/18/2024 17:35	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.02	0	0	0	0	0	0
7/18/2024 17:36	47401	PENS_T1	3	4	1	1	1.33	0.33	0.58	0.55	0	0	0	0	0	0
7/18/2024 17:39	51002	NHAR_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 17:39	51003	NHAR_T1	0	0	0	0	0	0	-1.95	-2.02	1	1	0	1200	1200	0
7/18/2024 17:39	51004	NHAR_T1	1	1	0	6.7	6.9	0.2	0	0	0	0	0	0	0	0
7/18/2024 17:40	42501	ALTA_T2	0	0	0	0	0	0	-0.51	-0.66	1	1	0	600	600	0
7/18/2024 17:40	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/18/2024 17:46	52403	GRPA_T2	58	66	8	0.82	0.81	-0.01	-0.38	-0.38	0	0	0	0	0	0
7/18/2024 17:46	52401	GRPA_T2	53	44	-9	0.44	0.15	-0.29	0	0	0	0	0	0	0	0
7/18/2024 17:46	52404	GRPA_T2	9	4	-5	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/18/2024 17:46	52402	GRPA_T2	5	3	-2	0.64	0	-0.64	0	0	0	0	0	0	0	0
7/18/2024 17:47	52402	GRPA_T2	5	3	-2	0.64	0	-0.64	0	0	0	0	0	0	0	0
7/18/2024 17:47	52401	GRPA_T2	53	44	-9	0.44	0.15	-0.29	-0.08	-0.07	0	0	0	0	0	0
7/18/2024 17:47	52403	GRPA_T2	58	66	8	0.82	0.81	-0.01	0	0	0	0	0	0	0	0
7/18/2024 17:47	52404	GRPA_T2	9	4	-5	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/18/2024 17:51	28102	TWLA_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
7/18/2024 17:51	64101	REFR_T1	0	0	0	0	0	0	-0.04	0.07	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/18/2024 17:55	56501	ROCK_T2	2	3	1	0.2	0.15	-0.05	-2.02	-2.09	0	0	0	0	0	0
7/18/2024 17:55	56504	ROCK_T2	12	12	0	1.73	0.97	-0.76	0	0	0	0	0	0	0	0
7/18/2024 18:07	64101	REFR_T1	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
7/18/2024 18:12	40502	CRES_T2	2	3	1	0.2	0.23	0.03	-0.03	-0.02	0	0	0	0	0	0
7/18/2024 18:12	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 18:20	44201	POIN_T1	0	0	0	0	0	0	-1.72	-1.69	2	2	0	2100	2100	0
7/18/2024 18:21	66504	SMAN_T2	2	4	2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/18/2024 18:21	66505	SMAN_T2	3	5	2	0.37	0.15	-0.22	0.02	0.18	4	4	0	2300	2300	0
7/18/2024 18:23	44201	POIN_T1	0	0	0	0	0	0	-1.69	-1.7	2	2	0	2100	2100	0
7/18/2024 18:32	16901	MECK_T1	172	217	45	0.26	0.31	0.05	0	0	0	0	0	0	0	0
7/18/2024 18:32	16902	MECK_T1	250	315	65	0.38	0.47	0.09	0.27	0.26	0	0	0	0	0	0
7/18/2024 18:36	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 18:38	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
7/18/2024 18:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 18:41	40502	CRES_T2	2	8	6	0.55	0.24	-0.31	-0.1	-0.14	0	0	0	0	0	0
7/18/2024 18:42	40502	CRES_T2	2	8	6	0.55	0.24	-0.31	-0.25	-0.35	0	0	0	0	0	0
7/18/2024 18:42	22002	BOHE_T1	0	0	0	0	0	0	0.71	0.67	0	0	0	0	0	0
7/18/2024 18:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 18:43	40502	CRES_T2	2	8	6	0.55	0.24	-0.31	-0.15	-0.21	0	0	0	0	0	0
7/18/2024 18:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 18:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 18:44	40502	CRES_T2	2	8	6	0.55	0.24	-0.31	-0.15	-0.21	0	0	0	0	0	0
7/18/2024 18:45	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 18:45	40502	CRES_T2	7	2	-5	0.24	0.3	0.06	-0.1	-0.14	0	0	0	0	0	0
7/18/2024 18:46	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 18:46	40502	CRES_T2	7	2	-5	0.24	0.3	0.06	-0.05	-0.07	0	0	0	0	0	0
7/18/2024 18:47	47101	MARL_T1	14	27	13	0.59	0.6	0.01	-0.73	-0.68	1	1	0	600	600	0
7/18/2024 18:47	46602	LACK_T1	4	5	1	0.18	0.14	-0.04	-0.43	-0.42	0	0	0	0	0	0
7/18/2024 18:48	12803	MICK_T1	0	0	0	0	0	0	0.29	0.28	1	1	0	1200	1200	0
7/18/2024 18:48	64904	MILL_T1	0	0	0	0	0	0	0.66	0.51	0	0	0	0	0	0
7/18/2024 18:49	47101	MARL_T1	14	27	13	0.59	0.6	0.01	-0.73	-0.68	1	1	0	600	600	0
7/18/2024 18:49	64902	MILL_T2	0	0	0	0	0	0	-0.57	-0.63	1	1	0	900	900	0
7/18/2024 18:49	64903	MILL_T2	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
7/18/2024 18:51	64903	MILL_T2	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
7/18/2024 18:51	64902	MILL_T2	0	0	0	0	0	0	-0.63	-0.63	1	1	0	900	900	0
7/18/2024 18:58	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 18:58	16204	POFA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/18/2024 18:59	16002	DORN_T2	2	1	-1	0.4	0.3	-0.1	-0.05	-0.04	1	1	0	1200	1200	0
7/18/2024 18:59	16204	POFA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/18/2024 18:59	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 18:59	16006	DORN_T2	7	15	8	2.21	2.1	-0.11	0	0	0	0	0	0	0	0
7/18/2024 19:03	63305	GREE_T1	0	3	3	0	0.27	0.27	-2.93	-3.18	2	2	0	1800	1800	0
7/18/2024 19:04	13501	MCMI_T1	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
7/18/2024 19:08	55102	WERT_T2	0	1	1	0	0	0	-1.06	-1.11	1	1	0	600	600	0
7/18/2024 19:14	48902	FOSP_T2	0	0	0	0	0	0	0.48	0.41	0	0	0	0	0	0
7/18/2024 19:18	14404	SSLA_T1	2	2	0	1.8	2.35	0.55	0	0	0	0	0	0	0	0
7/18/2024 19:18	14403	SSLA_T1	1	2	1	0.2	0	-0.2	1.49	1.43	0	0	0	0	0	0
7/18/2024 19:18	25402	LAHA_T2	166	185	19	0.27	0.23	-0.04	-0.58	-0.56	0	0	0	0	0	0
7/18/2024 19:18	25404	LAHA_T2	666	728	62	0.57	0.6	0.03	0	0	0	0	0	0	0	0
7/18/2024 19:20	14404	SSLA_T1	2	2	0	1.8	2.35	0.55	0	0	0	0	0	0	0	0
7/18/2024 19:20	27605	PIRI_T2	37	34	-3	0.42	0.25	-0.17	0.92	0.93	0	0	0	0	0	0
7/18/2024 19:20	27603	PIRI_T2	3	1	-2	1.23	1.7	0.47	0	0	0	0	0	0	0	0
7/18/2024 19:20	14403	SSLA_T1	1	2	1	0.2	0	-0.2	1.49	1.43	0	0	0	0	0	0
7/18/2024 19:26	61001	DONV_T1	0	0	0	0	0	0	0.4	0.47	0	0	0	0	0	0
7/18/2024 19:30	61001	DONV_T1	0	0	0	0	0	0	0.4	0.47	0	0	0	0	0	0
7/18/2024 19:30	12006	HATF_T1	0	0	0	0	0	0	-0.1	-0.16	2	2	0	2400	2400	0
7/18/2024 19:34	65604	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/18/2024 19:34	65601	QVIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/18/2024 19:34	65603	QVIL_T2	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
7/18/2024 19:35	64903	MILL_T2	4	19	15	0.13	0.14	0.01	0	0	0	0	0	0	0	0
7/18/2024 19:35	65604	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/18/2024 19:35	65603	QVIL_T2	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
7/18/2024 19:35	65601	QVIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/18/2024 19:35	64902	MILL_T2	0	0	0	0	0	0	-0.61	-0.61	1	1	0	900	900	0
7/18/2024 19:41	42504	ALTA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/18/2024 19:41	61703	ELIZ_T1	0	0	0	0	0	0	-1.08	-1.11	1	1	0	900	900	0
7/18/2024 19:41	42501	ALTA_T2	0	0	0	0	0	0	-0.7	0.6	1	1	0	600	600	0
7/18/2024 19:41	61701	ELIZ_T1	1	1	0	4.8	5.2	0.4	0	0	0	0	0	0	0	0
7/18/2024 19:49	65604	QVIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/18/2024 19:49	65603	QVIL_T2	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
7/18/2024 19:49	65601	QVIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/18/2024 19:54	65601	QVIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/18/2024 19:54	65604	QVIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/18/2024 19:54	65603	QVIL_T2	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
7/18/2024 19:55	61103	BERK_T5	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
7/18/2024 19:57	14603	SWHI_T1	0	0	0	0	0	0	83.96	83.96	2	2	0	1200	1200	0
7/18/2024 19:57	14605	SWHI_T1	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
7/18/2024 20:07	22701	MINO_T1	0	0	0	0	0	0	-0.55	-0.6	1	1	0	600	600	0
7/18/2024 20:10	43304	WATS_T2	5	5	0	0.56	0.8	0.24	-0.11	-0.13	0	0	0	0	0	0
7/18/2024 20:11	61702	ELIZ_T2	0	0	0	0	0	0	0	-0.07	1	1	0	300	300	0
7/18/2024 20:12	25503	MADI_T1	53	44	-9	0.18	0.17	-0.01	-0.61	-0.64	0	0	0	0	0	0
7/18/2024 20:12	59101	WALK_T2	0	0	0	0	0	0	0.12	0.07	0	0	0	0	0	0
7/18/2024 20:12	25501	MADI_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
7/18/2024 20:29	47001	HUGH_T2	3	4	1	7.2	5.7	-1.5	-0.93	-0.97	1	1	0	900	900	0
7/18/2024 20:29	47002	HUGH_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/18/2024 20:32	64203	KINZ_T1	0	0	0	0	0	0	0.07	0.1	1	1	0	600	600	0
7/18/2024 20:32	64201	KINZ_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/18/2024 20:32	64204	KINZ_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
7/18/2024 20:33	47001	HUGH_T2	3	8	5	7.47	3.09	-4.38	-0.93	-0.97	1	1	0	900	900	0
7/18/2024 20:37	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/18/2024 20:44	61801	EELI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/18/2024 20:44	61803	EELI_T2	0	0	0	0	0	0	1.32	1.28	0	0	0	0	0	0
7/18/2024 20:45	61801	EELI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/18/2024 20:45	61802	EELI_T2	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
7/18/2024 20:48	53903	HALI_T2	2	2	0	0.9	0.55	-0.35	0	-0.02	0	0	0	0	0	0
7/18/2024 20:48	53902	HALI_T2	1	1	0	5.5	4.7	-0.8	0	0	0	0	0	0	0	0
7/18/2024 20:49	53902	HALI_T2	1	1	0	5.5	4.7	-0.8	0	0	0	0	0	0	0	0
7/18/2024 20:49	53903	HALI_T2	2	2	0	0.9	0.55	-0.35	0	-0.02	0	0	0	0	0	0
7/18/2024 20:51	53903	HALI_T2	2	2	0	0.9	0.55	-0.35	0	-0.02	0	0	0	0	0	0
7/18/2024 20:51	53902	HALI_T2	1	1	0	5.5	4.7	-0.8	0	0	0	0	0	0	0	0
7/18/2024 21:20	64305	LINC_T1	1	0	-1	0.4	0	-0.4	-0.08	-0.12	0	0	0	0	0	0
7/18/2024 21:41	53601	DALM_T2	1	1	0	0.4	0.7	0.3	-0.41	-0.4	1	1	0	600	600	0
7/18/2024 21:57	44801	EDAN_T2	1	11	10	0.1	0.22	0.12	-1.4	-1.39	0	0	0	0	0	0
7/18/2024 21:58	44801	EDAN_T2	1	11	10	0.1	0.22	0.12	-1.4	-1.39	0	0	0	0	0	0
7/18/2024 22:07	57403	SPAN_T1	0	0	0	0	0	0	0.59	0.53	0	0	0	0	0	0
7/18/2024 22:07	14207	EALL_T1	1	1	0	4.8	4.9	0.1	0	0	0	0	0	0	0	0
7/18/2024 22:07	54504	ENOL_T2	0	0	0	0	0	0	-0.75	-0.79	1	1	0	600	600	0
7/18/2024 22:07	56803	BENV_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
7/18/2024 22:07	57401	SPAN_T1	0	0	0	0	0	0	-3.13	-3.71	5	5	0	3000	3000	0
7/18/2024 22:07	58001	WCAR_T1	4	4	0	1.05	0.45	-0.6	0	0	0	0	0	0	0	0
7/18/2024 22:07	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.3	2	2	0	1200	1200	0
7/18/2024 22:07	52004	LING_T2	2	3	1	2.5	2.8	0.3	0	0	0	0	0	0	0	0
7/18/2024 22:07	14201	EALL_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
7/18/2024 22:07	44301	BEAV_T2	0	0	0	0	0	0	-0.47	-0.26	1	1	0	600	600	0
7/18/2024 22:07	41901	REED_T1	9	4	-5	0.59	0.2	-0.39	0	0	0	0	0	0	0	0
7/18/2024 22:07	52404	GRPA_T2	1	0	-1	0.3	0	-0.3	-0.05	-0.09	0	0	0	0	0	0
7/18/2024 22:07	58003	WCAR_T1	2	1	-1	0.8	1	0.2	2.77	2.71	0	0	0	0	0	0
7/18/2024 22:07	40602	PIGR_T1	0	1	1	0	0.1	0.1	-2.55	-2.68	3	3	0	1800	1800	0
7/18/2024 22:07	52402	GRPA_T2	4	2	-2	0.4	0.1	-0.3	-1.13	-1.28	0	0	0	0	0	0
7/18/2024 22:07	41902	REED_T1	0	1	1	0	0	0	0.74	0.72	0	0	0	0	0	0
7/18/2024 22:07	59101	WALK_T2	0	0	0	0	0	0	-0.13	-0.59	0	0	0	0	0	0
7/18/2024 22:07	40802	EXCH_T2	0	0	0	0	0	0	-0.51	-0.42	0	0	0	0	0	0
7/18/2024 22:07	54505	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/18/2024 22:07	56801	BENV_T1	6	7	1	1.07	1.12	0.05	-0.43	-0.46	1	1	0	600	600	0
7/18/2024 22:07	40603	PIGR_T1	0	0	0	0	0	0	1.11	1.13	0	0	0	0	0	0
7/18/2024 22:07	56802	BENV_T2	0	0	0	0	0	0	-0.36	-1.05	0	0	0	0	0	0
7/18/2024 22:07	40801	EXCH_T2	0	0	0	0	0	0	-0.15	-0.19	1	1	0	1200	1200	0
7/18/2024 22:07	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	-0.37	-0.41	0	0	0	0	0	0
7/18/2024 22:07	48301	ORWI_T1	2	2	0	2.7	2.8	0.1	0.72	0.65	0	0	0	0	0	0
7/18/2024 22:07	52401	GRPA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/18/2024 22:07	52002	LING_T2	0	0	0	0	0	0	0.55	0.51	0	0	0	0	0	0
7/18/2024 22:07	42201	SHEN_T2	0	0	0	0	0	0	1.55	1.52	0	0	0	0	0	0
7/18/2024 22:07	40101	HUNT_T2	5	1	-4	0.4	0	-0.4	-1.2	-1.6	0	0	0	0	0	0
7/18/2024 22:08	58001	WCAR_T1	4	4	0	1.05	0.45	-0.6	0	0	0	0	0	0	0	0
7/18/2024 22:08	54505	ENOL_T2	1	0	-1	0.2	0	-0.2	-0.89	-0.91	1	1	0	600	600	0
7/18/2024 22:08	54001	SDLE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/18/2024 22:08	51802	EBEN_T2	0	2	2	0	0	0	-0.01	0.04	1	1	0	900	900	0
7/18/2024 22:08	51301	WIND_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
7/18/2024 22:08	52401	GRPA_T2	1	1	0	0.4	0.3	-0.1	-0.34	-0.33	0	0	0	0	0	0
7/18/2024 22:08	53802	MBRG_T2	0	0	0	0	0	0	3.17	2.76	0	0	0	0	0	0
7/18/2024 22:08	52001	LING_T1	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
7/18/2024 22:08	54504	ENOL_T2	0	0	0	0	0	0	-1.5	-1.58	2	2	0	1200	1200	0
7/18/2024 22:08	41902	REED_T1	0	1	1	0	0	0	0.37	0.36	0	0	0	0	0	0
7/18/2024 22:08	52002	LING_T2	0	0	0	0	0	0	3.87	3.58	0	0	0	0	0	0
7/18/2024 22:08	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:08	52402	GRPA_T2	4	2	-2	0.4	0.1	-0.3	-1.13	-1.28	0	0	0	0	0	0
7/18/2024 22:08	53903	HALI_T2	2	2	0	1.25	0.3	-0.95	0.02	0.02	0	0	0	0	0	0
7/18/2024 22:08	59102	WALK_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
7/18/2024 22:08	41602	CLEV_T1	0	1	1	0	0	0	0	0	2	2	0	1200	1200	0
7/18/2024 22:08	54503	ENOL_T2	0	0	0	0	0	0	-0.89	-0.91	1	1	0	600	600	0
7/18/2024 22:08	53902	HALI_T2	1	1	0	5.8	4.5	-1.3	0	0	0	0	0	0	0	0
7/18/2024 22:08	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	-0.75	-0.83	0	0	0	0	0	0
7/18/2024 22:08	48302	ORWI_T2	2	2	0	0.6	0.7	0.1	-0.43	-0.47	0	0	0	0	0	0
7/18/2024 22:08	52501	PROG_T1	68	0	-68	0.15	0	-0.15	-4.18	-4.29	4	4	0	1200	1200	0
7/18/2024 22:08	56504	ROCK_T2	0	0	0	0	0	0	0.03	-0.17	0	0	0	0	0	0
7/18/2024 22:08	56801	BENV_T1	6	7	1	1.07	1.12	0.05	-3.83	-4.14	9	9	0	5400	5400	0
7/18/2024 22:08	52404	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/18/2024 22:08	25601	ARRO_T1	5	2	-3	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
7/18/2024 22:08	46102	MACI_T1	0	0	0	0	0	0	0.91	0.9	0	0	0	0	0	0
7/18/2024 22:08	56803	BENV_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
7/18/2024 22:08	25602	ARRO_T1	49	7	-42	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
7/18/2024 22:08	52003	LING_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/18/2024 22:08	58003	WCAR_T1	2	1	-1	0.8	1	0.2	1.85	1.81	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/18/2024 22:08	40101	HUNT_T2	5	1	-4	0.4	0	-0.4	-0.96	-1.28	0	0	0	0	0	0
7/18/2024 22:08	48301	ORWI_T1	2	2	0	2.7	2.8	0.1	0.72	0.65	0	0	0	0	0	0
7/18/2024 22:08	59101	WALK_T2	0	0	0	0	0	0	-0.11	-0.47	0	0	0	0	0	0
7/18/2024 22:08	48602	POCA_T1	0	0	0	0	0	0	1.1	1.07	0	0	0	0	0	0
7/18/2024 22:08	42503	ALTA_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
7/18/2024 22:08	59202	THOM_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/18/2024 22:08	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:08	48303	ORWI_T2	0	0	0	0	0	0	0.17	0.12	0	0	0	0	0	0
7/18/2024 22:08	53601	DALM_T2	1	1	0	0.7	0.1	-0.6	-0.17	-0.06	1	1	0	600	600	0
7/18/2024 22:08	56501	ROCK_T2	193	2	-191	0.33	0.35	0.02	-5.24	-5.21	0	0	0	0	0	0
7/18/2024 22:08	48902	FOSP_T2	0	0	0	0	0	0	0.4	0.31	0	0	0	0	0	0
7/18/2024 22:08	46101	MACI_T2	0	0	0	0	0	0	-0.5	-0.56	1	1	0	1200	1200	0
7/18/2024 22:08	59201	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/18/2024 22:08	47802	MOCA_T2	0	0	0	0	0	0	-0.61	-0.59	0	0	0	0	0	0
7/18/2024 22:08	51401	LYKE_T1	0	0	0	0	0	0	0.7	0.72	0	0	0	0	0	0
7/18/2024 22:08	42501	ALTA_T2	0	0	0	0	0	0	1.57	1.53	4	4	0	2400	2400	0
7/18/2024 22:08	51108	CARL_T1	82	1	-81	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
7/18/2024 22:08	51102	CARL_T1	99	12	-87	0.27	0.13	-0.14	0	0	0	0	0	0	0	0
7/18/2024 22:08	52004	LING_T2	2	3	1	2.5	2.8	0.3	0	0	0	0	0	0	0	0
7/18/2024 22:08	40502	CRES_T2	1	6	5	0.1	0.17	0.07	-4.34	-4.55	0	0	0	0	0	0
7/18/2024 22:08	51303	WIND_T1	0	14	14	0	0.34	0.34	0	0	0	0	0	0	0	0
7/18/2024 22:08	51101	CARL_T1	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
7/18/2024 22:08	53901	HALI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/18/2024 22:08	41901	REED_T1	9	4	-5	0.59	0.2	-0.39	0	0	0	0	0	0	0	0
7/18/2024 22:08	47101	MARL_T1	1	12	11	1.4	0.6	-0.8	-2.71	-2.84	0	0	0	0	0	0
7/18/2024 22:08	40302	TAMA_T3	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
7/18/2024 22:08	42201	SHEN_T2	0	0	0	0	0	0	2.06	2.02	0	0	0	0	0	0
7/18/2024 22:08	53602	DALM_T2	0	0	0	0	0	0	-0.47	-0.47	1	1	0	600	600	0
7/18/2024 22:08	41301	FISH_T1	2	1	-1	1.25	2.3	1.05	0	0	0	0	0	0	0	0
7/18/2024 22:08	56802	BENV_T2	0	0	0	0	0	0	-3.2	-9.45	0	0	0	0	0	0
7/18/2024 22:08	25603	ARRO_T1	12	0	-12	0.1	0	-0.1	0.19	0.19	0	0	0	0	0	0
7/18/2024 22:08	51305	WIND_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
7/18/2024 22:08	51109	CARL_T1	0	0	0	0	0	0	0.77	0.78	0	0	0	0	0	0
7/18/2024 22:10	25601	ARRO_T1	5	2	-3	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
7/18/2024 22:10	25603	ARRO_T1	12	0	-12	0.1	0	-0.1	0.19	0.19	0	0	0	0	0	0
7/18/2024 22:10	25602	ARRO_T1	49	7	-42	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
7/18/2024 22:14	28102	TWLA_T2	2	3	1	0.15	0.33	0.18	0.23	0.23	0	0	0	0	0	0
7/18/2024 22:14	61102	BERK_T5	0	0	0	0	0	0	1.72	1.53	0	0	0	0	0	0
7/18/2024 22:24	21206	ECAR_T2	1	1	0	8	8.2	0.2	0.17	0.19	0	0	0	0	0	0
7/18/2024 22:24	21202	ECAR_T2	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
7/18/2024 22:24	21204	ECAR_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/18/2024 22:25	16901	MECK_T1	203	211	8	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
7/18/2024 22:25	16902	MECK_T1	311	283	-28	0.38	0.32	-0.06	0.19	0.19	0	0	0	0	0	0
7/18/2024 22:26	64904	MILL_T1	0	0	0	0	0	0	0.14	0.07	0	0	0	0	0	0
7/18/2024 22:27	40502	CRES_T2	3	10	7	0.13	0.17	0.04	-0.65	-0.7	0	0	0	0	0	0
7/18/2024 22:27	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:27	24902	WHHA_T1	3	7	4	0.5	1.05	0.55	0.84	0.86	0	0	0	0	0	0
7/18/2024 22:27	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:28	60803	BUCK_T1	20	27	7	0.77	0.76	-0.01	0	0	0	0	0	0	0	0
7/18/2024 22:28	29402	BELT_T1	1	30	29	9.2	0.62	-8.58	0	0	0	0	0	0	0	0
7/18/2024 22:28	65001	NEFF_T2	0	0	0	0	0	0	-0.45	-0.58	1	1	0	1200	1200	0
7/18/2024 22:28	60801	BUCK_T1	58	70	12	0.38	0.59	0.21	-0.04	-0.06	0	0	0	0	0	0
7/18/2024 22:28	20603	GRWO_T2	4	0	-4	0.13	0	-0.13	-0.46	-0.44	1	1	0	900	900	0
7/18/2024 22:28	56802	BENV_T2	0	0	0	0	0	0	-1.05	-1.11	0	0	0	0	0	0
7/18/2024 22:28	20601	GRWO_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
7/18/2024 22:28	63501	HEID_TBK1-2	0	1	1	0	0.3	0.3	-0.01	-0.03	1	1	0	900	900	0
7/18/2024 22:29	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0.04	0.1	0	0	0	0	0	0
7/18/2024 22:29	40502	CRES_T2	3	10	7	0.13	0.17	0.04	-0.65	-0.7	0	0	0	0	0	0
7/18/2024 22:29	13501	MCMI_T1	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
7/18/2024 22:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:29	51401	LYKE_T1	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
7/18/2024 22:30	23001	SAUG_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
7/18/2024 22:30	16902	MECK_T1	260	293	33	0.33	0.3	-0.03	0.19	0.19	0	0	0	0	0	0
7/18/2024 22:30	17002	RIRO_T2	1	1	0	1.2	0.7	-0.5	0.58	0.54	0	0	0	0	0	0
7/18/2024 22:30	16901	MECK_T1	196	216	20	0.25	0.26	0.01	0	0	0	0	0	0	0	0
7/18/2024 22:31	52004	LING_T2	2	2	0	2.8	3.15	0.35	0	0	0	0	0	0	0	0
7/18/2024 22:31	47101	MARL_T1	12	7	-5	0.98	0	-0.98	-0.47	-0.55	0	0	0	0	0	0
7/18/2024 22:31	52002	LING_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
7/18/2024 22:31	46203	DANV_T2	0	0	0	0	0	0	-0.4	-0.44	0	0	0	0	0	0
7/18/2024 22:31	16901	MECK_T1	196	216	20	0.25	0.26	0.01	0	0	0	0	0	0	0	0
7/18/2024 22:31	16902	MECK_T1	260	293	33	0.33	0.3	-0.03	0.19	0.19	0	0	0	0	0	0
7/18/2024 22:31	64902	MILL_T2	0	0	0	0	0	0	-0.2	-0.25	1	1	0	900	900	0
7/18/2024 22:31	64903	MILL_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/18/2024 22:32	11104	EGYP_T1	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
7/18/2024 22:32	29402	BELT_T1	0	32	32	0	0.33	0.33	0	0	0	0	0	0	0	0
7/18/2024 22:32	42601	TUSC_T1	0	0	0	0	0	0	-0.17	-0.19	2	2	0	1800	1800	0
7/18/2024 22:32	46203	DANV_T2	0	0	0	0	0	0	-0.4	-0.44	0	0	0	0	0	0
7/18/2024 22:32	63305	GREE_T1	14	4	-10	0.27	0.28	0.01	-1.77	-1.9	1	1	0	900	900	0
7/18/2024 22:32	46206	DANV_T2	0	0	0	0	0	0	1.53	1.57	2	2	0	2100	2100	0
7/18/2024 22:32	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/18/2024 22:32	50701	SMEC_T1	0	0	0	0	0	0	-0.23	-0.27	0	0	0	0	0	0
7/18/2024 22:32	67602	WARW_T2	0	0	0	0	0	0	0.04	0.05	2	2	0	1500	1500	0
7/18/2024 22:32	61102	BERK_T5	0	0	0	0	0	0	3.05	2.91	0	0	0	0	0	0
7/18/2024 22:32	44201	POIN_T1	107	176	69	0.3	0.39	0.09	-2.11	-2.16	2	2	0	2100	2100	0
7/18/2024 22:32	40101	HUNT_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
7/18/2024 22:33	56501	ROCK_T2	2	111	109	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
7/18/2024 22:33	22003	BOHE_T1	254	191	-63	0.4	0.26	-0.14	0	0	0	0	0	0	0	0
7/18/2024 22:33	15702	TANN_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
7/18/2024 22:33	55101	WERT_T1	0	0	0	0	0	0	-1.79	-1.83	3	3	0	2400	2400	0
7/18/2024 22:33	55001	NEWP_T1	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
7/18/2024 22:33	47101	MARL_T1	12	7	-5	0.98	0	-0.98	-0.47	-0.55	0	0	0	0	0	0
7/18/2024 22:33	48902	FOSP_T2	0	0	0	0	0	0	0.15	0.2	0	0	0	0	0	0
7/18/2024 22:33	16204	POFA_T1	48	0	-48	0.11	0	-0.11	0	0	0	0	0	0	0	0
7/18/2024 22:33	11103	EGYP_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
7/18/2024 22:33	60502	NMAN_T2	0	0	0	0	0	0	0.19	0.15	0	0	0	0	0	0
7/18/2024 22:33	43302	WATS_T2	4	4	0	0.13	0.25	0.12	0	0	0	0	0	0	0	0
7/18/2024 22:33	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:33	24105	EHAZ_T1	5	5	0	6.53	6.43	-0.1	0	0	0	0	0	0	0	0
7/18/2024 22:33	55002	NEWP_T1	1	0	-1	0.1	0	-0.1	-0.1	-0.12	0	0	0	0	0	0
7/18/2024 22:33	29402	BELT_T1	0	32	32	0	0.33	0.33	0	0	0	0	0	0	0	0
7/18/2024 22:33	24102	EHAZ_T1	21	21	0	0.52	1.37	0.85	0	0	0	0	0	0	0	0
7/18/2024 22:33	56504	ROCK_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
7/18/2024 22:33	22001	BOHE_T1	9	0	-9	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/18/2024 22:33	52002	LING_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
7/18/2024 22:33	15703	TANN_T2	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
7/18/2024 22:33	61102	BERK_T5	0	0	0	0	0	0	1.53	1.46	0	0	0	0	0	0
7/18/2024 22:33	24103	EHAZ_T1	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
7/18/2024 22:33	52004	LING_T2	2	2	0	2.8	3.15	0.35	0	0.01	0	0	0	0	0	0
7/18/2024 22:33	22002	BOHE_T1	1	0	-1	0.2	0	-0.2	0.43	0.41	0	0	0	0	0	0
7/18/2024 22:33	43301	WATS_T2	0	0	0	0	0	0	0.61	-0.41	0	1	1	0	900	900
7/18/2024 22:33	46602	LACR_T1	0	0	0	0	0	0	-0.74	-0.81	0	0	0	0	0	0
7/18/2024 22:33	67605	WARW_T1	1	1	0	0.2	0.5	0.3	-1.07	-1.05	0	0	0	0	0	0
7/18/2024 22:34	40502	CRES_T2	6	9	3	0.17	0.2	0.03	-1.3	-1.4	0	0	0	0	0	0
7/18/2024 22:34	20403	ASHF_T2	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
7/18/2024 22:34	64903	MILL_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/18/2024 22:34	67605	WARW_T1	1	1	0	0.2	0.5	0.3	-1.07	-1.05	0	0	0	0	0	0
7/18/2024 22:34	48302	ORWI_T2	2	2	0	0.55	0.9	0.35	-0.47	-0.5	0	0	0	0	0	0
7/18/2024 22:34	47101	MARL_T1	12	7	-5	0.98	0	-0.98	-0.47	-0.55	0	0	0	0	0	0
7/18/2024 22:34	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:34	44203	POIN_T2	0	0	0	0	0	0	-0.37	-0.4	2	2	0	2100	2100	0
7/18/2024 22:34	56801	BENV_T1	7	8	1	1.04	0.86	-0.18	-0.46	-0.51	1	1	0	600	600	0
7/18/2024 22:34	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:34	24902	WHHA_T1	7	2	-5	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
7/18/2024 22:34	46801	HEPB_T2	2	0	-2	0.25	0	-0.25	0.83	0.77	0	0	0	0	0	0
7/18/2024 22:34	43402	BENT_T1	0	4	4	0	0.25	0.25	-0.83	-0.85	1	1	0	900	900	0
7/18/2024 22:34	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:34	65603	QVIL_T2	43	2	-41	0.16	0.1	-0.06	0.37	0.34	0	0	0	0	0	0
7/18/2024 22:34	22901	HARW_T1	0	0	0	0	0	0	-0.32	-0.24	1	1	0	1200	1200	0
7/18/2024 22:34	16901	MECK_T1	196	216	20	0.25	0.26	0.01	0	0	0	0	0	0	0	0
7/18/2024 22:34	22905	HARW_T1	1	0	-1	7.5	0	-7.5	0	0	0	0	0	0	0	0
7/18/2024 22:34	48301	ORWI_T1	2	2	0	2.65	3.2	0.55	1.29	1.25	0	0	0	0	0	0
7/18/2024 22:34	40302	TAMA_T3	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
7/18/2024 22:34	44202	POIN_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/18/2024 22:34	65604	QVIL_T2	2	3	1	0.45	0.17	-0.28	0	0	0	0	0	0	0	0
7/18/2024 22:34	67505	WEWI_T1	0	0	0	0	0	0	0.42	0.36	1	1	0	900	900	0
7/18/2024 22:34	65602	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/18/2024 22:34	66504	SMAN_T2	0	0	0	0	0	0	0.81	0.5	0	0	0	0	0	0
7/18/2024 22:34	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/18/2024 22:34	56504	ROCK_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
7/18/2024 22:34	14403	SSLA_T1	0	0	0	0	0	0	0.89	0.86	0	0	0	0	0	0
7/18/2024 22:34	56802	BENV_T2	0	0	0	0	0	0	-1.05	-1.11	0	0	0	0	0	0
7/18/2024 22:34	13503	MCMI_T2	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
7/18/2024 22:34	47401	PENS_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
7/18/2024 22:34	14404	SSLA_T1	2	2	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
7/18/2024 22:34	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:34	65601	QVIL_T2	23	2	-21	0.2	0.2	0	0	0	0	0	0	0	0	0
7/18/2024 22:34	63501	HEID_TBK1-2	1	1	0	0.2	0.3	0.1	-0.01	-0.03	1	1	0	900	900	0
7/18/2024 22:34	56501	ROCK_T2	2	111	109	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
7/18/2024 22:34	22903	HARW_T1	6	8	2	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/18/2024 22:34	16902	MECK_T1	260	293	33	0.33	0.3	-0.03	0.19	0.19	0	0	0	0	0	0
7/18/2024 22:34	24901	WHHA_T1	1	1	0	0	0	0	0.66	0.68	0	0	0	0	0	0
7/18/2024 22:34	64902	MILL_T2	0	0	0	0	0	0	-0.2	-0.25	1	1	0	900	900	0
7/18/2024 22:35	65401	MARI_T1	9	76	67	0.12	0.15	0.03	-0.41	-0.46	0	0	0	0	0	0
7/18/2024 22:35	11103	EGYP_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
7/18/2024 22:35	40101	HUNT_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
7/18/2024 22:35	53802	MBRG_T2	0	0	0	0	0	0	0.92	0.93	0	0	0	0	0	0
7/18/2024 22:35	67605	WARW_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/18/2024 22:35	22901	HARW_T1	0	0	0	0	0	0	-0.32	-0.24	1	1	0	1200	1200	0
7/18/2024 22:35	61001	DONV_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
7/18/2024 22:35	22903	HARW_T1	6	8	2	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/18/2024 22:35	65402	MARI_T1	55	79	24	0.15	0.25	0.1	0	0	0	0	0	0	0	0
7/18/2024 22:35	66902	SHIL_T2	8	1	-7	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/18/2024 22:35	56504	ROCK_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/18/2024 22:35	66903	SHIL_T2	7	0	-7	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/18/2024 22:35	47401	PENS_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
7/18/2024 22:35	22905	HARW_T1	1	0	-1	7.5	0	-7.5	0	0	0	0	0	0	0	0
7/18/2024 22:35	59101	WALK_T2	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
7/18/2024 22:35	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:35	40502	CRES_T2	6	9	3	0.17	0.2	0.03	-0.65	-0.7	0	0	0	0	0	0
7/18/2024 22:35	61102	BERK_T5	0	0	0	0	0	0	1.53	1.46	0	0	0	0	0	0
7/18/2024 22:35	66901	SHIL_T2	240	98	-142	0.3	0.17	-0.13	-1.17	-1.25	1	1	0	1200	1200	0
7/18/2024 22:35	56501	ROCK_T2	2	111	109	0.35	0.23	-0.12	-1.3	-1.42	0	0	0	0	0	0
7/18/2024 22:35	67603	WARW_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
7/18/2024 22:35	42501	ALTA_T2	0	0	0	0	0	0	0.38	0.36	1	1	0	600	600	0
7/18/2024 22:35	13503	MCMI_T2	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
7/18/2024 22:36	56501	ROCK_T2	2	111	109	0.35	0.23	-0.12	-1.3	-1.42	0	0	0	0	0	0
7/18/2024 22:36	61103	BERK_T5	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
7/18/2024 22:36	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:36	40502	CRES_T2	6	9	3	0.17	0.2	0.03	-0.65	-0.7	0	0	0	0	0	0
7/18/2024 22:36	61102	BERK_T5	0	0	0	0	0	0	1.46	1.37	0	0	0	0	0	0
7/18/2024 22:36	55002	NEWP_T1	1	0	-1	0.1	0	-0.1	-0.1	-0.12	0	0	0	0	0	0
7/18/2024 22:36	52501	PROG_T1	0	1	1	0	0.1	0.1	-1.07	-1.05	1	1	0	300	300	0
7/18/2024 22:36	46206	DANV_T2	0	0	0	0	0	0	1.57	1.6	2	2	0	2100	2100	0
7/18/2024 22:36	15702	TANN_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
7/18/2024 22:36	48902	FOSP_T2	0	0	0	0	0	0	0.15	0.2	0	0	0	0	0	0
7/18/2024 22:36	15703	TANN_T2	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
7/18/2024 22:36	67605	WARW_T1	1	1	0	0.2	0.5	0.3	-1.05	-1.14	0	0	0	0	0	0
7/18/2024 22:36	55001	NEWP_T1	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
7/18/2024 22:36	64101	REFR_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
7/18/2024 22:37	65205	PRIN_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
7/18/2024 22:37	46801	HEPB_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/18/2024 22:37	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:37	13503	MCMI_T2	0	0	0	0	0	0	0.15	0.1	0	0	0	0	0	0
7/18/2024 22:37	50701	SMEC_T1	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
7/18/2024 22:37	61102	BERK_T5	0	0	0	0	0	0	1.46	1.37	0	0	0	0	0	0
7/18/2024 22:37	67602	WARW_T2	0	0	0	0	0	0	0.05	0.03	2	2	0	1500	1500	0
7/18/2024 22:37	42201	SHEN_T2	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
7/18/2024 22:37	40502	CRES_T2	6	9	3	0.17	0.2	0.03	-0.7	-0.72	0	0	0	0	0	0
7/18/2024 22:37	16204	POFA_T1	48	0	-48	0.11	0	-0.11	0	0	0	0	0	0	0	0
7/18/2024 22:37	64101	REFR_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
7/18/2024 22:37	56802	BENV_T2	0	0	0	0	0	0	-1.11	-1.13	0	0	0	0	0	0
7/18/2024 22:37	56501	ROCK_T2	2	111	109	0.35	0.23	-0.12	-1.42	-1.5	0	0	0	0	0	0
7/18/2024 22:37	47401	PENS_T1	0	0	0	0	0	0	0.16	0	0	0	0	0	0	0
7/18/2024 22:37	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:37	52501	PROG_T1	0	1	1	0	0.1	0.1	-1.05	-1.08	1	1	0	300	300	0
7/18/2024 22:37	46803	HEPB_T2	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
7/18/2024 22:37	57401	SPAN_T1	0	0	0	0	0	0	-0.76	-0.83	1	1	0	600	600	0
7/18/2024 22:37	56801	BENV_T1	7	8	1	1.04	0.86	-0.18	-0.51	-0.57	1	1	0	600	600	0
7/18/2024 22:38	65604	QVIL_T2	2	3	1	0.45	0.17	-0.28	0	0	0	0	0	0	0	0
7/18/2024 22:38	13905	SEID_T1	0	0	0	0	0	0	-0.67	-0.7	1	1	0	1200	1200	0
7/18/2024 22:38	51101	CARL_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
7/18/2024 22:38	67803	WLAN_T1	0	0	0	0	0	0	-1.14	-1.17	0	0	0	0	0	0
7/18/2024 22:38	64101	REFR_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
7/18/2024 22:38	51102	CARL_T1	12	21	9	0.13	0.14	0.01	0	0	0	0	0	0	0	0
7/18/2024 22:38	64203	KINZ_T1	49	0	-49	0.22	0	-0.22	0	0	0	0	0	0	0	0
7/18/2024 22:38	26401	INOR_T1	1	1	0	9.8	9.5	-0.3	0.65	0.6	0	0	0	0	0	0
7/18/2024 22:38	52004	LING_T2	2	2	0	2.8	3.15	0.35	0.01	0	0	0	0	0	0	0
7/18/2024 22:38	55102	WERT_T2	0	0	0	0	0	0	-0.35	-0.41	1	1	0	600	600	0
7/18/2024 22:38	46203	DANV_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
7/18/2024 22:38	52402	GRPA_T2	1	1	0	0.1	0.6	0.5	-0.67	-0.49	0	0	0	0	0	0
7/18/2024 22:38	42902	MIDD_T2	0	0	0	0	0	0	-1.51	-1.55	2	2	0	1200	1200	0
7/18/2024 22:38	43301	WATS_T2	0	0	0	0	0	0	-0.83	-0.88	2	2	0	1800	1800	0
7/18/2024 22:38	16302	ALPA_T2	0	0	0	0	0	0	0.98	0.96	0	0	0	0	0	0
7/18/2024 22:38	51401	LYKE_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
7/18/2024 22:38	52404	GRPA_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
7/18/2024 22:38	67605	WARW_T1	1	1	0	0.2	0.5	0.3	-1.05	-1.14	0	0	0	0	0	0
7/18/2024 22:38	64201	KINZ_T1	60	10	-50	0.28	0.28	0	-0.05	-0.1	3	3	0	1500	1500	0
7/18/2024 22:38	64903	MILL_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/18/2024 22:38	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:38	48602	POCA_T1	0	0	0	0	0	0	1.04	1.11	0	0	0	0	0	0
7/18/2024 22:38	51109	CARL_T1	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
7/18/2024 22:38	64902	MILL_T2	0	0	0	0	0	0	-0.25	-0.91	1	1	0	900	900	0
7/18/2024 22:38	16204	POFA_T1	48	0	-48	0.11	0	-0.11	0	0	0	0	0	0	0	0
7/18/2024 22:38	56802	BENV_T2	0	0	0	0	0	0	-1.11	-1.13	0	0	0	0	0	0
7/18/2024 22:38	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:38	20603	GRWO_T2	0	0	0	0	0	0	-0.44	-0.41	1	1	0	900	900	0
7/18/2024 22:38	40502	CRES_T2	6	9	3	0.17	0.2	0.03	-3.5	-3.58	0	0	0	0	0	0
7/18/2024 22:38	65602	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/18/2024 22:38	63305	GREE_T1	14	4	-10	0.27	0.28	0.01	-1.9	-1.95	1	1	0	900	900	0
7/18/2024 22:38	65601	QVIL_T2	23	2	-21	0.2	0.2	0	0	0	0	0	0	0	0	0
7/18/2024 22:38	64202	KINZ_T1	11	4	-7	0.2	0.73	0.53	0	0	0	0	0	0	0	0
7/18/2024 22:38	64204	KINZ_T1	20	1	-19	0.26	0.6	0.34	0	0	0	0	0	0	0	0
7/18/2024 22:38	43304	WATS_T2	0	0	0	0	0	0	-0.76	-0.79	0	0	0	0	0	0
7/18/2024 22:38	52401	GRPA_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/18/2024 22:38	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0.04	1.31	0	0	0	0	0	0
7/18/2024 22:38	65603	QVIL_T2	43	2	-41	0.16	0.1	-0.06	0.34	0.4	0	0	0	0	0	0
7/18/2024 22:38	56501	ROCK_T2	2	111	109	0.35	0.23	-0.12	-1.42	-1.5	0	0	0	0	0	0
7/18/2024 22:38	11104	EGYP_T1	0	0	0	0	0	0	0.46	0.79	0	0	0	0	0	0
7/18/2024 22:38	51108	CARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/18/2024 22:38	67801	WLAN_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
7/18/2024 22:38	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:38	43302	WATS_T2	4	4	0	0.13	0.25	0.12	0	0	0	0	0	0	0	0
7/18/2024 22:38	45802	HEGI_T2	13	12	-1	0.48	0.54	0.06	0.56	0.67	1	1	0	300	300	0
7/18/2024 22:38	54001	SDLE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:38	59101	WALK_T2	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
7/18/2024 22:38	24902	WHHA_T1	7	2	-5	0.5	0.35	-0.15	0.86	0.82	0	0	0	0	0	0
7/18/2024 22:38	26402	INOR_T1	23	20	-3	0.32	0.26	-0.06	0	0	0	0	0	0	0	0
7/18/2024 22:38	25603	ARRO_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
7/18/2024 22:38	20403	ASHF_T2	0	0	0	0	0	0	0.53	0.43	0	0	0	0	0	0
7/18/2024 22:39	12001	HATF_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/18/2024 22:39	43302	WATS_T2	4	4	0	0.13	0.25	0.12	0	0	0	0	0	0	0	0
7/18/2024 22:39	16301	ALPA_T1	2	2	0	0.45	0.45	0	0.08	0.03	0	0	0	0	0	0
7/18/2024 22:39	56801	BENV_T1	7	8	1	1.04	0.86	-0.18	-1.01	-1.13	2	2	0	1200	1200	0
7/18/2024 22:39	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/18/2024 22:39	52004	LING_T2	2	2	0	2.8	3.15	0.35	0	0	0	0	0	0	0	0
7/18/2024 22:39	20601	GRWO_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
7/18/2024 22:39	43304	WATS_T2	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
7/18/2024 22:39	16302	ALPA_T2	0	0	0	0	0	0	1.96	1.92	0	0	0	0	0	0
7/18/2024 22:39	16002	DORN_T2	0	0	0	0	0	0	-0.26	-0.33	1	1	0	1200	1200	0
7/18/2024 22:39	58001	WCAR_T1	4	4	0	0.45	0.9	0.45	0	0	0	0	0	0	0	0
7/18/2024 22:39	12006	HATF_T1	0	0	0	0	0	0	0.14	0.14	1	1	0	1200	1200	0
7/18/2024 22:39	63202	MGTN_T2	0	0	0	0	0	0	0.05	0	1	1	0	900	900	0
7/18/2024 22:39	20403	ASHF_T2	0	0	0	0	0	0	1.58	1.3	0	0	0	0	0	0
7/18/2024 22:39	58003	WCAR_T1	1	1	0	1	1.2	0.2	0.92	0.9	0	0	0	0	0	0
7/18/2024 22:39	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:39	52401	GRPA_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/18/2024 22:39	56802	BENV_T2	0	0	0	0	0	0	-2.22	-2.27	0	0	0	0	0	0
7/18/2024 22:39	46101	MACI_T2	0	0	0	0	0	0	-0.56	-0.55	1	1	0	1200	1200	0
7/18/2024 22:39	40502	CRES_T2	6	9	3	0.17	0.2	0.03	-0.7	-0.72	0	0	0	0	0	0
7/18/2024 22:39	12002	HATF_T1	0	0	0	0	0	0	-0.71	-0.83	1	1	0	1200	1200	0
7/18/2024 22:39	52002	LING_T2	0	0	0	0	0	0	0.49	0.43	0	0	0	0	0	0
7/18/2024 22:39	52402	GRPA_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
7/18/2024 22:39	47401	PENS_T1	0	0	0	0	0	0	0.16	0	0	0	0	0	0	0
7/18/2024 22:39	67602	WARW_T2	0	0	0	0	0	0	0.05	0.03	2	2	0	1500	1500	0
7/18/2024 22:39	64101	REFR_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
7/18/2024 22:39	56501	ROCK_T2	2	111	109	0.35	0.23	-0.12	-2.84	-2.99	0	0	0	0	0	0
7/18/2024 22:39	66505	SMAN_T2	0	0	0	0	0	0	-0.1	-0.23	3	3	0	2100	2100	0
7/18/2024 22:39	54001	SDLE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:39	12803	MICK_T1	0	0	0	0	0	0	0.88	0.83	0	0	0	0	0	0
7/18/2024 22:39	52404	GRPA_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
7/18/2024 22:39	63304	GREE_T1	0	0	0	0	0	0	-1.36	-1.37	0	0	0	0	0	0
7/18/2024 22:39	16006	DORN_T2	6	3	-3	0.88	0.15	-0.73	0	0	0	0	0	0	0	0
7/18/2024 22:39	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:39	56803	BENV_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
7/18/2024 22:39	63305	GREE_T1	14	4	-10	0.27	0.28	0.01	0	0	0	0	0	0	0	0
7/18/2024 22:39	12701	MACU_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	1200	1200	0
7/18/2024 22:40	40502	CRES_T2	6	9	3	0.17	0.2	0.03	-0.7	-0.72	0	0	0	0	0	0
7/18/2024 22:40	62102	ELAN_T1	3	2	-1	0.87	0	-0.87	1.2	1.2	0	0	0	0	0	0
7/18/2024 22:40	52002	LING_T2	0	0	0	0	0	0	0.49	0.43	0	0	0	0	0	0
7/18/2024 22:40	42503	ALTA_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
7/18/2024 22:40	16204	POFA_T1	48	0	-48	0.11	0	-0.11	0	0	0	0	0	0	0	0
7/18/2024 22:40	43202	MVIL_T2	57	108	51	0.53	0.48	-0.05	-0.6	-0.6	0	0	0	0	0	0
7/18/2024 22:40	48301	ORWI_T1	2	2	0	2.65	3.2	0.55	0.63	0.65	0	0	0	0	0	0
7/18/2024 22:40	59101	WALK_T2	0	0	0	0	0	0	-0.3	-0.25	0	0	0	0	0	0
7/18/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
7/18/2024 22:40	67602	WARW_T2	0	0	0	0	0	0	0.05	0.03	2	2	0	1500	1500	0
7/18/2024 22:40	46203	DANV_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
7/18/2024 22:40	62104	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/18/2024 22:40	56802	BENV_T2	0	0	0	0	0	0	-2.22	-2.27	0	0	0	0	0	0
7/18/2024 22:40	13503	MCMI_T2	0	0	0	0	0	0	0.15	0.1	0	0	0	0	0	0
7/18/2024 22:40	16302	ALPA_T2	0	0	0	0	0	0	0.98	0.96	0	0	0	0	0	0
7/18/2024 22:40	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:40	52004	LING_T2	2	2	0	2.8	3.15	0.35	0	0	0	0	0	0	0	0
7/18/2024 22:40	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:40	52501	PROG_T1	0	1	1	0	0.1	0.1	-1.05	-1.08	1	1	0	300	300	0
7/18/2024 22:40	44801	EDAN_T2	18	73	55	0.26	0.33	0.07	-1.44	-1.45	0	0	0	0	0	0
7/18/2024 22:40	11104	EGYP_T1	0	0	0	0	0	0	0.46	0.79	0	0	0	0	0	0
7/18/2024 22:40	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/18/2024 22:40	67401	WAKE_T2	17	0	-17	0.12	0	-0.12	0	0	0	0	0	0	0	0
7/18/2024 22:40	67402	WAKE_T2	0	0	0	0	0	0	-0.06	-0.07	1	1	0	600	600	0
7/18/2024 22:40	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:41	40101	HUNT_T2	0	0	0	0	0	0	-0.34	-0.31	0	0	0	0	0	0
7/18/2024 22:41	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:41	46102	MACI_T1	0	0	0	0	0	0	0.92	0.92	0	0	0	0	0	0
7/18/2024 22:41	47101	MARL_T1	12	7	-5	0.98	0	-0.98	-0.55	-0.54	0	0	0	0	0	0
7/18/2024 22:41	56801	BENV_T1	7	8	1	1.04	0.86	-0.18	-0.51	-0.57	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/18/2024 22:41	55101	WERT_T1	0	0	0	0	0	0	-3.67	-3.69	6	6	0	4800	4800	0
7/18/2024 22:41	64101	REFR_T1	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
7/18/2024 22:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:42	65603	QVIL_T2	43	2	-41	0.16	0.1	-0.06	0.69	0.79	0	0	0	0	0	0
7/18/2024 22:42	65604	QVIL_T2	2	3	1	0.45	0.17	-0.28	0	0	0	0	0	0	0	0
7/18/2024 22:42	40502	CRES_T2	6	9	3	0.17	0.2	0.03	-0.7	-0.72	0	0	0	0	0	0
7/18/2024 22:42	44203	POIN_T2	0	0	0	0	0	0	-0.4	-0.54	2	2	0	2100	2100	0
7/18/2024 22:42	65601	QVIL_T2	23	2	-21	0.2	0.2	0	0	0	0	0	0	0	0	0
7/18/2024 22:42	55101	WERT_T1	0	0	0	0	0	0	-1.83	-1.85	3	3	0	2400	2400	0
7/18/2024 22:42	45802	HEGI_T2	13	12	-1	0.48	0.54	0.06	0.56	0.67	1	1	0	300	300	0
7/18/2024 22:42	44801	EDAN_T2	18	73	55	0.26	0.33	0.07	-1.44	-1.45	0	0	0	0	0	0
7/18/2024 22:42	58001	WCAR_T1	4	4	0	0.45	0.9	0.45	0	0	0	0	0	0	0	0
7/18/2024 22:42	12301	LANA_T2	0	1	1	0	1.5	1.5	0.15	0.11	0	0	0	0	0	0
7/18/2024 22:42	47101	MARL_T1	12	7	-5	0.98	0	-0.98	-0.55	-0.54	0	0	0	0	0	0
7/18/2024 22:42	25404	LAHA_T2	518	598	80	0.39	0.42	0.03	0	0	0	0	0	0	0	0
7/18/2024 22:42	58003	WCAR_T1	1	1	0	1	1.2	0.2	0.92	0.9	0	0	0	0	0	0
7/18/2024 22:42	56802	BENV_T2	0	0	0	0	0	0	-1.11	-1.13	0	0	0	0	0	0
7/18/2024 22:42	65602	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/18/2024 22:42	44202	POIN_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/18/2024 22:42	25603	ARRO_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
7/18/2024 22:42	53802	MBRG_T2	0	0	0	0	0	0	0.93	0.82	0	0	0	0	0	0
7/18/2024 22:42	25402	LAHA_T2	61	63	2	0.14	0.15	0.01	-0.75	-0.74	0	0	0	0	0	0
7/18/2024 22:42	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/18/2024 22:42	12701	MACU_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	1200	1200	0
7/18/2024 22:43	67605	WARW_T1	1	1	0	0.2	0.5	0.3	-1.05	-1.14	0	0	0	0	0	0
7/18/2024 22:43	64203	KINZ_T1	49	0	-49	0.22	0	-0.22	0.7	0.62	0	0	0	0	0	0
7/18/2024 22:43	14404	SSLA_T1	2	2	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
7/18/2024 22:43	56801	BENV_T1	7	8	1	1.04	0.86	-0.18	-1.52	-1.7	3	3	0	1800	1800	0
7/18/2024 22:43	45702	LIND_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
7/18/2024 22:43	65802	RTWN_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
7/18/2024 22:43	53802	MBRG_T2	0	0	0	0	0	0	0.93	0.82	0	0	0	0	0	0
7/18/2024 22:43	43304	WATS_T2	0	0	0	0	0	0	-1.14	-1.19	0	0	0	0	0	0
7/18/2024 22:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:43	41901	REED_T1	4	9	5	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/18/2024 22:43	60803	BUCK_T1	27	21	-6	0.76	0.58	-0.18	0	0	0	0	0	0	0	0
7/18/2024 22:43	55101	WERT_T1	0	0	0	0	0	0	-1.83	-1.85	3	3	0	2400	2400	0
7/18/2024 22:43	56501	ROCK_T2	2	111	109	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
7/18/2024 22:43	64204	KINZ_T1	20	1	-19	0.26	0.6	0.34	0	0	0	0	0	0	0	0
7/18/2024 22:43	64201	KINZ_T1	60	10	-50	0.28	0.28	0	0	0	0	0	0	0	0	0
7/18/2024 22:43	47101	MARL_T1	12	7	-5	0.98	0	-0.98	-0.55	-0.54	0	0	0	0	0	0
7/18/2024 22:43	24901	WHHA_T1	1	1	0	0	0	0	0.68	0.67	0	0	0	0	0	0
7/18/2024 22:43	67602	WARW_T2	0	0	0	0	0	0	0.05	0.03	2	2	0	1500	1500	0
7/18/2024 22:43	44301	BEAV_T2	0	0	0	0	0	0	-0.39	-0.31	1	1	0	600	600	0
7/18/2024 22:43	41902	REED_T1	1	0	-1	0.4	0	-0.4	0.32	0.34	0	0	0	0	0	0
7/18/2024 22:43	60801	BUCK_T1	70	52	-18	0.59	0.37	-0.22	-0.06	-0.07	0	0	0	0	0	0
7/18/2024 22:43	64202	KINZ_T1	11	4	-7	0.2	0.73	0.53	0	0	0	0	0	0	0	0
7/18/2024 22:43	46203	DANV_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
7/18/2024 22:43	55001	NEWP_T1	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
7/18/2024 22:43	52002	LING_T2	0	0	0	0	0	0	0.49	0.43	0	0	0	0	0	0
7/18/2024 22:43	21203	ECAR_T1	0	0	0	0	0	0	-0.3	-0.34	0	0	0	0	0	0
7/18/2024 22:43	56802	BENV_T2	0	0	0	0	0	0	1.11	1.13	0	0	0	0	0	0
7/18/2024 22:43	40502	CRES_T2	6	9	3	0.17	0.2	0.03	-1.4	-1.43	0	0	0	0	0	0
7/18/2024 22:43	43302	WATS_T2	4	4	0	0.13	0.25	0.12	0	0	0	0	0	0	0	0
7/18/2024 22:43	55002	NEWP_T1	1	0	-1	0.1	0	-0.1	-0.12	-0.15	0	0	0	0	0	0
7/18/2024 22:43	52402	GRPA_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
7/18/2024 22:43	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/18/2024 22:43	52004	LING_T2	2	2	0	2.8	3.15	0.35	0	0	0	0	0	0	0	0
7/18/2024 22:43	58402	MORO_T1	0	0	0	0	0	0	0.11	0.03	2	2	0	1500	1500	0
7/18/2024 22:43	24902	WHHA_T1	7	2	-5	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
7/18/2024 22:43	54001	SDLE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:43	52401	GRPA_T2	1	1	0	0.3	0.7	0.4	-0.36	-0.39	0	0	0	0	0	0
7/18/2024 22:43	14403	SSLA_T1	0	0	0	0	0	0	0.86	0.79	0	0	0	0	0	0
7/18/2024 22:43	56504	ROCK_T2	0	0	0	0	0	0	-0.04	-0.1	0	0	0	0	0	0
7/18/2024 22:44	56801	BENV_T1	7	8	1	1.04	0.86	-0.18	-1.01	-1.13	2	2	0	1200	1200	0
7/18/2024 22:44	43202	MVIL_T2	57	108	51	0.53	0.48	-0.05	-1.2	-1.2	0	0	0	0	0	0
7/18/2024 22:44	42201	SHEN_T2	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
7/18/2024 22:44	40603	PIGR_T1	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
7/18/2024 22:44	40602	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/18/2024 22:44	55002	NEWP_T1	1	0	-1	0.1	0	-0.1	-0.12	-0.15	0	0	0	0	0	0
7/18/2024 22:44	64101	REFR_T1	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
7/18/2024 22:44	46203	DANV_T2	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
7/18/2024 22:44	27603	PIRI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/18/2024 22:44	42903	MIDD_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
7/18/2024 22:44	54001	SDLE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:44	61704	ELIZ_T2	3	4	1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
7/18/2024 22:44	52004	LING_T2	2	2	0	2.8	3.15	0.35	0	0	0	0	0	0	0	0
7/18/2024 22:44	55001	NEWP_T1	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
7/18/2024 22:44	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:44	43402	BENT_T1	0	4	4	0	0.25	0.25	-0.85	-0.84	1	1	0	900	900	0
7/18/2024 22:44	67605	WARW_T1	1	1	0	0.2	0.5	0.3	-1.05	-1.14	0	0	0	0	0	0
7/18/2024 22:44	52002	LING_T2	0	0	0	0	0	0	0.49	0.43	0	0	0	0	0	0
7/18/2024 22:44	27605	PIRI_T2	1	0	-1	0.1	0	-0.1	0.58	0.63	0	0	0	0	0	0
7/18/2024 22:44	52501	PROG_T1	0	1	1	0	0.1	0.1	-1.05	-1.08	1	1	0	300	300	0
7/18/2024 22:44	55101	WERT_T1	0	0	0	0	0	0	-1.83	-1.85	3	3	0	2400	2400	0
7/18/2024 22:44	61702	ELIZ_T2	0	0	0	0	0	0	-0.26	-0.27	1	1	0	300	300	0
7/18/2024 22:44	59101	WALK_T2	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
7/18/2024 22:44	43302	WATS_T2	4	4	0	0.13	0.25	0.12	0	0	0	0	0	0	0	0
7/18/2024 22:44	52402	GRPA_T2	1	1	0	0.1	0.6	0.5	-0.67	-0.49	0	0	0	0	0	0
7/18/2024 22:44	53501	EVIL_T2	1	1	0	0.6	0.2	-0.4	-0.26	-0.33	0	0	0	0	0	0
7/18/2024 22:44	52401	GRPA_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/18/2024 22:44	56502	ROCK_T2	2	111	109	0.35	0.23	-0.12	-1.42	-1.5	0	0	0	0	0	0
7/18/2024 22:44	41301	FISH_T1	1	1	0	2	2.2	0.2	0	0.01	0	0	0	0	0	0
7/18/2024 22:44	43301	WATS_T2	0	0	0	0	0	0	-0.41	-0.44	1	1	0	900	900	0
7/18/2024 22:44	40101	HUNT_T2	0	0	0	0	0	0	-0.34	-0.31	0	0	0	0	0	0
7/18/2024 22:45	61703	ELIZ_T1	0	0	0	0	0	0	-0.45	-0.51	0	0	0	0	0	0
7/18/2024 22:45	56801	BENV_T1	6	10	4	1.05	0.73	-0.32	-0.51	-0.57	1	1	0	600	600	0
7/18/2024 22:45	46203	DANV_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
7/18/2024 22:45	63804	HEMP_T1	1	1	0	5.7	6.2	0.5	0.04	1.31	0	0	0	0	0	0
7/18/2024 22:45	43801	SWIL_T1	2	2	0	3.2	3.25	0.05	0	0	0	0	0	0	0	0
7/18/2024 22:45	43302	WATS_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
7/18/2024 22:45	43402	BENT_T1	0	4	4	0	0.25	0.25	-0.85	-0.84	1	1	0	900	900	0
7/18/2024 22:45	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:45	52403	GRPA_T2	0	0	0	0	0	0	-0.47	-0.52	0	0	0	0	0	0
7/18/2024 22:45	42503	ALTA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:45	42501	ALTA_T2	0	1	1	0	0	0	0.36	0.34	1	1	0	600	600	0
7/18/2024 22:45	52002	LING_T2	0	0	0	0	0	0	0.49	0.43	0	0	0	0	0	0
7/18/2024 22:45	43304	WATS_T2	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
7/18/2024 22:45	42201	SHEN_T2	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
7/18/2024 22:45	44301	BEAV_T2	0	0	0	0	0	0	-0.39	-0.31	1	1	0	600	600	0
7/18/2024 22:45	52004	LING_T2	2	2	0	3.15	3	-0.15	0	0	0	0	0	0	0	0
7/18/2024 22:45	61701	ELIZ_T1	1	1	0	4.4	4.4	0	0	0	0	0	0	0	0	0
7/18/2024 22:45	52402	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/18/2024 22:45	43802	SWIL_T1	0	0	0	0	0	0	0.16	0.08	1	1	0	600	600	0
7/18/2024 22:45	67201	TEHI_T1	0	0	0	0	0	0	0.09	-0.23	0	0	0	0	0	0
7/18/2024 22:45	52401	GRPA_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/18/2024 22:46	52002	LING_T2	0	0	0	0	0	0	0.49	0.43	0	0	0	0	0	0
7/18/2024 22:46	52403	GRPA_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
7/18/2024 22:46	52401	GRPA_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/18/2024 22:46	44201	POIN_T1	131	223	92	0.37	0.42	0.05	-2.16	-2.12	2	2	0	2100	2100	0
7/18/2024 22:46	67402	WAKE_T2	0	0	0	0	0	0	-0.06	-0.07	1	1	0	600	600	0
7/18/2024 22:46	52402	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/18/2024 22:46	42201	SHEN_T2	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
7/18/2024 22:46	52004	LING_T2	2	2	0	3.15	3	-0.15	0	0	0	0	0	0	0	0
7/18/2024 22:46	47401	PENS_T1	0	0	0	0	0	0	0.16	0	0	0	0	0	0	0
7/18/2024 22:46	41901	REED_T1	9	9	0	0.29	0.4	0.11	0	0	0	0	0	0	0	0
7/18/2024 22:46	41902	REED_T1	0	1	1	0	0	0	0.32	0.34	0	0	0	0	0	0
7/18/2024 22:46	63304	GREE_T1	0	0	0	0	0	0	-1.36	-1.37	0	0	0	0	0	0
7/18/2024 22:46	56801	BENV_T1	6	10	4	1.05	0.73	-0.32	-0.51	-0.57	1	1	0	600	600	0
7/18/2024 22:46	63305	GREE_T1	4	4	0	0.25	0.28	0.03	0	0	0	0	0	0	0	0
7/18/2024 22:47	55101	WERT_T1	0	0	0	0	0	0	-1.83	-1.85	3	3	0	2400	2400	0
7/18/2024 22:48	49804	UNIV_T1	0	0	0	0	0	0	0.84	0.82	0	0	0	0	0	0
7/18/2024 22:48	46203	DANV_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
7/18/2024 22:48	47101	MARL_T1	7	0	-7	0.43	0	-0.43	-0.55	-0.54	0	0	0	0	0	0
7/18/2024 22:49	52401	GRPA_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/18/2024 22:49	64305	LINC_T1	1	0	-1	0.2	0	-0.2	-0.28	-0.3	0	0	0	0	0	0
7/18/2024 22:49	40101	HUNT_T2	0	0	0	0	0	0	-0.34	-0.31	0	0	0	0	0	0
7/18/2024 22:49	52402	GRPA_T2	1	0	-1	0.6	0	-0.6	-0.67	-0.49	0	0	0	0	0	0
7/18/2024 22:50	67602	WARW_T2	0	0	0	0	0	0	0.05	0.03	2	2	0	1500	1500	0
7/18/2024 22:50	43302	WATS_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
7/18/2024 22:50	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/18/2024 22:51	59101	WALK_T2	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
7/18/2024 23:03	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/18/2024 23:03	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/18/2024 23:03	52403	GRPA_T2	0	0	0	0	0	0	-0.26	-0.31	0	0	0	0	0	0
7/18/2024 23:05	64204	KINZ_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
7/18/2024 23:05	64201	KINZ_T1	10	2	-8	0.28	0.65	0.37	0	0	0	0	0	0	0	0
7/18/2024 23:05	67602	WARW_T2	0	0	0	0	0	0	0.03	0.01	2	2	0	1500	1500	0
7/18/2024 23:05	64203	KINZ_T1	0	0	0	0	0	0	0.62	0.56	0	0	0	0	0	0
7/18/2024 23:05	64202	KINZ_T1	4	3	-1	0.73	0.53	-0.2	0	0	0	0	0	0	0	0
7/18/2024 23:06	64202	KINZ_T1	4	3	-1	0.73	0.53	-0.2	0	0	0	0	0	0	0	0
7/18/2024 23:06	64203	KINZ_T1	0	0	0	0	0	0	0.62	0.56	0	0	0	0	0	0
7/18/2024 23:06	64201	KINZ_T1	10	2	-8	0.28	0.65	0.37	0	0	0	0	0	0	0	0
7/18/2024 23:06	64204	KINZ_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
7/18/2024 23:11	57403	SPAN_T1	0	25	25	0	0.25	0.25	0	0	0	0	0	0	0	0
7/18/2024 23:11	57401	SPAN_T1	0	0	0	0	0	0	-0.81	-0.82	1	1	0	600	600	0
7/18/2024 23:18	42501	ALTA_T2	0	0	0	0	0	0	0.33	0.37	1	1	0	600	600	0
7/18/2024 23:53	22701	MINO_T1	0	0	0	0	0	0	-0.74	-0.56	1	1	0	600	600	0
7/18/2024 23:55	64305	LINC_T1	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
7/18/2024 23:56	64305	LINC_T1	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
7/19/2024 0:39	51003	NHAR_T1	0	0	0	0	0	0	-1.13	-1.21	1	1	0	1200	1200	0
7/19/2024 0:39	51002	NHAR_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
7/19/2024 0:39	51004	NHAR_T1	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
7/19/2024 0:54	64201	KINZ_T1	1	7	6	1.1	0.41	-0.69	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/19/2024 0:54	64204	KINZ_T1	1	16	15	0.9	0.24	-0.66	0	0	0	0	0	0	0	0
7/19/2024 0:54	64202	KINZ_T1	1	8	7	0.1	0.24	0.14	0	0	0	0	0	0	0	0
7/19/2024 0:54	64203	KINZ_T1	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
7/19/2024 0:55	64203	KINZ_T1	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
7/19/2024 0:55	64202	KINZ_T1	1	8	7	0.1	0.24	0.14	0	0	0	0	0	0	0	0
7/19/2024 0:55	64204	KINZ_T1	1	16	15	0.9	0.24	-0.66	0	0	0	0	0	0	0	0
7/19/2024 0:55	64201	KINZ_T1	1	7	6	1.1	0.41	-0.69	0	0	0	0	0	0	0	0
7/19/2024 2:18	64204	KINZ_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
7/19/2024 2:18	64201	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
7/19/2024 2:18	64203	KINZ_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
7/19/2024 2:18	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/19/2024 2:19	64204	KINZ_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
7/19/2024 2:19	64203	KINZ_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
7/19/2024 2:19	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/19/2024 2:19	64201	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
7/19/2024 5:04	49804	UNIV_T1	2	2	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
7/19/2024 5:04	49803	UNIV_T1	0	0	0	0	0	0	-5.01	-4.95	0	0	0	0	0	0
7/19/2024 6:34	41903	REED_T1	0	0	0	0	0	0	-0.24	-0.2	1	1	0	1200	1200	0
7/19/2024 6:49	56501	ROCK_T2	0	2	2	0	0	0	-0.52	-0.48	0	0	0	0	0	0
7/19/2024 6:52	56501	ROCK_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 6:52	56504	ROCK_T2	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
7/19/2024 6:53	67001	STHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/19/2024 6:53	67002	STHI_T2	0	0	0	0	0	0	1.52	1.59	0	0	0	0	0	0
7/19/2024 6:53	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 6:53	24902	WHHA_T1	1	1	0	0.8	0.3	-0.5	0.72	0.76	0	0	0	0	0	0
7/19/2024 6:55	61102	BERK_T5	0	0	0	0	0	0	0.69	0.79	1	1	0	300	300	0
7/19/2024 7:00	12505	MITR_T2	0	0	0	0	0	0	0.64	0.69	0	0	0	0	0	0
7/19/2024 7:00	12502	MITR_T2	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
7/19/2024 7:00	61102	BERK_T5	0	0	0	0	0	0	0.69	0.79	1	1	0	300	300	0
7/19/2024 7:02	12502	MITR_T2	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
7/19/2024 7:02	12505	MITR_T2	0	0	0	0	0	0	0.64	0.69	0	0	0	0	0	0
7/19/2024 7:04	56504	ROCK_T2	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
7/19/2024 7:04	56501	ROCK_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/19/2024 7:06	60502	NMAN_T2	1	1	0	0.3	0.1	-0.2	-0.15	-0.13	0	0	0	0	0	0
7/19/2024 7:10	54505	ENOL_T2	0	1	1	0	0.1	0.1	-1.31	-1.28	1	1	0	600	600	0
7/19/2024 7:10	54502	ENOL_T2	0	0	0	0	0	0	-1.13	-1.12	1	1	0	600	600	0
7/19/2024 7:10	67503	WEWI_T2	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
7/19/2024 7:21	65904	SAKR_T2	0	0	0	0	0	0	-1.56	-1.58	3	3	0	1500	1500	0
7/19/2024 7:21	65901	SAKR_T2	1	1	0	8.3	8.4	0.1	0	0	0	0	0	0	0	0
7/19/2024 7:22	65901	SAKR_T2	1	1	0	8.3	8.4	0.1	0	0	0	0	0	0	0	0
7/19/2024 7:22	65904	SAKR_T2	0	0	0	0	0	0	-1.56	-1.58	3	3	0	1500	1500	0
7/19/2024 7:27	22001	BOHE_T1	2	4	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
7/19/2024 7:27	22002	BOHE_T1	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
7/19/2024 7:27	22003	BOHE_T1	252	252	0	0.63	0.55	-0.08	0	0	0	0	0	0	0	0
7/19/2024 7:29	61801	EELI_T2	6	6	0	0.42	0.55	0.13	0	0	0	0	0	0	0	0
7/19/2024 7:29	61802	EELI_T2	0	0	0	0	0	0	-0.16	-0.1	0	0	0	0	0	0
7/19/2024 7:30	58402	MORO_T1	1	0	-1	1.2	0	-1.2	0.22	-0.71	2	3	1	1500	2400	900
7/19/2024 7:33	27604	PIRI_T1	0	0	0	0	0	0	0.52	0.55	0	0	0	0	0	0
7/19/2024 7:33	44201	POIN_T1	0	0	0	0	0	0	-2.07	-1.78	6	6	0	6300	6300	0
7/19/2024 7:34	27604	PIRI_T1	0	0	0	0	0	0	1.04	1.11	0	0	0	0	0	0
7/19/2024 7:34	66703	STRA_T1	2	1	-1	0.1	0.1	0	0.02	0.09	0	0	0	0	0	0
7/19/2024 7:35	13501	MCMI_T1	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
7/19/2024 7:37	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/19/2024 7:37	58006	WCAR_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
7/19/2024 7:37	44201	POIN_T1	0	0	0	0	0	0	-0.59	-0.4	2	2	0	2100	2100	0
7/19/2024 7:38	67702	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/19/2024 7:38	14802	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/19/2024 7:38	14801	TREI_T2	2	27	25	0.4	0.16	-0.24	1.07	1.08	0	0	0	0	0	0
7/19/2024 7:38	56802	BENV_T2	1	1	0	0.5	0.2	-0.3	-2.53	-2.52	0	0	0	0	0	0
7/19/2024 7:38	60802	BUCK_T2	0	0	0	0	0	0	0.24	0.27	0	0	0	0	0	0
7/19/2024 7:39	20401	ASHF_T2	0	6	6	0	0.37	0.37	0	0	0	0	0	0	0	0
7/19/2024 7:39	20403	ASHF_T2	0	2	2	0	0.35	0.35	1.58	1.69	0	0	0	0	0	0
7/19/2024 7:41	56801	BENV_T1	12	14	2	0.83	0.77	-0.06	0	0	0	0	0	0	0	0
7/19/2024 7:41	56803	BENV_T1	1	0	-1	2	0	-2	0.53	0.45	0	0	0	0	0	0
7/19/2024 7:42	61801	EELI_T2	6	6	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
7/19/2024 7:42	61802	EELI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 7:42	56801	BENV_T1	12	14	2	0.83	0.77	-0.06	0	0	0	0	0	0	0	0
7/19/2024 7:42	56803	BENV_T1	1	0	-1	2	0	-2	0.53	0.45	0	0	0	0	0	0
7/19/2024 7:42	12002	HATF_T1	0	0	0	0	0	0	-0.69	-0.78	1	1	0	1200	1200	0
7/19/2024 7:43	63305	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/19/2024 7:43	22001	BOHE_T1	0	118	118	0	0.2	0.2	0	0	0	0	0	0	0	0
7/19/2024 7:43	22002	BOHE_T1	0	7	7	0	0.16	0.16	0.34	0.36	0	0	0	0	0	0
7/19/2024 7:43	22003	BOHE_T1	250	360	110	0.5	0.61	0.11	0	0	0	0	0	0	0	0
7/19/2024 7:43	63306	GREE_T1	0	0	0	0	0	0	-2.06	-2.06	1	1	0	900	900	0
7/19/2024 7:44	40101	HUNT_T2	0	0	0	0	0	0	-0.18	-0.13	0	0	0	0	0	0
7/19/2024 7:44	63306	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 7:44	63305	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/19/2024 7:45	63305	GREE_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/19/2024 7:45	63306	GREE_T1	0	0	0	0	0	0	-2.06	-2.06	1	1	0	900	900	0
7/19/2024 7:45	64902	MILL_T2	0	0	0	0	0	0	-1.06	-0.43	1	1	0	900	900	0
7/19/2024 7:48	56501	ROCK_T2	3	45	42	0.13	0.15	0.02	-1.75	-1.72	0	0	0	0	0	0
7/19/2024 7:49	67002	STHI_T2	0	1	1	0	0.1	0.1	0.84	0.84	0	0	0	0	0	0
7/19/2024 7:49	67001	STHI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/19/2024 7:49	64902	MILL_T2	0	0	0	0	0	0	-1.06	-0.43	1	1	0	900	900	0
7/19/2024 7:50	67001	STHI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/19/2024 7:50	67002	STHI_T2	0	1	1	0	0.1	0.1	1.67	1.68	0	0	0	0	0	0
7/19/2024 7:51	16605	PONO_T1	0	0	0	0	0	0	-0.34	-0.32	1	1	0	1200	1200	0
7/19/2024 7:51	56501	ROCK_T2	3	45	42	0.13	0.15	0.02	-1.75	-1.72	0	0	0	0	0	0
7/19/2024 7:52	14402	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/19/2024 7:52	14404	SSLA_T1	2	2	0	3	3.2	0.2	0.02	0.05	0	0	0	0	0	0
7/19/2024 7:52	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/19/2024 7:53	14404	SSLA_T1	2	2	0	3	3.2	0.2	0.02	0.05	0	0	0	0	0	0
7/19/2024 7:53	14402	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/19/2024 7:53	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/19/2024 7:58	64204	KINZ_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/19/2024 7:58	64201	KINZ_T1	0	1	1	0	0.2	0.2	-0.08	-0.07	3	3	0	1500	1500	0
7/19/2024 8:03	43202	MVIL_T2	17	59	42	0.19	0.37	0.18	-0.6	-0.56	0	0	0	0	0	0
7/19/2024 8:06	66703	STRA_T1	1	0	-1	0.1	0	-0.1	0.15	0.18	0	0	0	0	0	0
7/19/2024 8:07	66703	STRA_T1	1	0	-1	0.1	0	-0.1	0.15	0.18	0	0	0	0	0	0
7/19/2024 8:08	14404	SSLA_T1	2	2	0	3.2	2.9	-0.3	0	0	0	0	0	0	0	0
7/19/2024 8:08	14402	SSLA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/19/2024 8:08	67605	WARW_T1	7	5	-2	0.17	0.18	0.01	-0.95	-0.97	0	0	0	0	0	0
7/19/2024 8:08	14403	SSLA_T1	0	0	0	0	0	0	0.98	1.02	0	0	0	0	0	0
7/19/2024 8:08	14401	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 8:09	65206	PRIN_T4	2	1	-1	3.05	3.5	0.45	0	0	0	0	0	0	0	0
7/19/2024 8:09	65207	PRIN_T4	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/19/2024 8:10	44801	EDAN_T2	5	44	39	0.22	0.33	0.11	-1.47	-1.49	0	0	0	0	0	0
7/19/2024 8:11	54501	ENOL_T2	0	0	0	0	0	0	-0.42	-0.4	1	1	0	600	600	0
7/19/2024 8:11	54505	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/19/2024 8:12	54505	ENOL_T2	0	1	1	0	0.4	0.4	-1.17	-1.13	1	1	0	600	600	0
7/19/2024 8:13	54505	ENOL_T2	0	1	1	0	0.4	0.4	-1.17	-1.13	1	1	0	600	600	0
7/19/2024 8:14	54501	ENOL_T2	0	0	0	0	0	0	-0.84	-0.8	2	2	0	1200	1200	0
7/19/2024 8:14	54505	ENOL_T2	0	1	1	0	0.4	0.4	-5.83	-5.63	5	5	0	3000	3000	0
7/19/2024 8:15	54505	ENOL_T2	1	1	0	0.4	0.4	0	-4.66	-4.5	4	4	0	2400	2400	0
7/19/2024 8:15	54503	ENOL_T2	0	0	0	0	0	0	-1.14	-1.11	1	1	0	600	600	0
7/19/2024 8:16	55002	NEWP_T1	5	7	2	0.86	0.76	-0.1	0	0	0	0	0	0	0	0
7/19/2024 8:16	55001	NEWP_T1	0	0	0	0	0	0	0.09	-0.1	0	0	0	0	0	0
7/19/2024 8:17	54505	ENOL_T2	1	1	0	0.4	0.4	0	-1.17	-1.13	1	1	0	600	600	0
7/19/2024 8:18	25404	LAHA_T2	775	747	-28	0.6	0.56	-0.04	0	0	0	0	0	0	0	0
7/19/2024 8:18	25402	LAHA_T2	494	433	-61	0.24	0.26	0.02	-0.66	-0.59	0	0	0	0	0	0
7/19/2024 8:22	15703	TANN_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
7/19/2024 8:22	15702	TANN_T2	0	0	0	0	0	0	-0.36	-0.33	0	0	0	0	0	0
7/19/2024 8:23	46301	ROHR_T1	12	11	-1	0.13	0.17	0.04	0	0	0	0	0	0	0	0
7/19/2024 8:23	42701	AUGU_T1	1	1	0	0.7	0.9	0.2	0	0	2	2	0	1800	1800	0
7/19/2024 8:23	56501	ROCK_T2	44	369	325	0.15	0.31	0.16	-1.67	-1.7	0	0	0	0	0	0
7/19/2024 8:23	45602	WOOL_T1	0	0	0	0	0	0	1.56	1.55	0	0	0	0	0	0
7/19/2024 8:23	46302	ROHR_T1	2	2	0	3.25	3.55	0.3	0.22	0.23	0	0	0	0	0	0
7/19/2024 8:25	59101	WALK_T2	1	1	0	4.1	4.4	0.3	0	-0.06	0	0	0	0	0	0
7/19/2024 8:25	61701	ELIZ_T1	1	1	0	5.3	5.5	0.2	1.83	1.89	0	0	0	0	0	0
7/19/2024 8:25	61703	ELIZ_T1	3	4	1	0.13	0.33	0.2	0	0	0	0	0	0	0	0
7/19/2024 8:28	54505	ENOL_T2	1	1	0	0.4	0.4	0	-1.13	-1.13	1	1	0	600	600	0
7/19/2024 8:30	21203	ECAR_T1	0	0	0	0	0	0	-0.13	-0.03	0	0	0	0	0	0
7/19/2024 8:34	52004	LING_T2	2	2	0	3.2	3.05	-0.15	0.33	0.33	0	0	0	0	0	0
7/19/2024 8:38	56802	BENV_T2	10	9	-1	0.33	0.32	-0.01	-1.13	-1.14	0	0	0	0	0	0
7/19/2024 8:39	56802	BENV_T2	10	9	-1	0.33	0.32	-0.01	-1.13	-1.14	0	0	0	0	0	0
7/19/2024 8:40	14402	SSLA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/19/2024 8:40	14403	SSLA_T1	0	0	0	0	0	0	1	1.1	0	0	0	0	0	0
7/19/2024 8:40	14404	SSLA_T1	2	2	0	2.85	2.65	-0.2	0	0	0	0	0	0	0	0
7/19/2024 8:43	54505	ENOL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/19/2024 8:43	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-0.98	1	1	0	600	600	0
7/19/2024 8:44	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-0.98	1	1	0	600	600	0
7/19/2024 8:44	54505	ENOL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/19/2024 8:49	12801	MICK_T1	0	0	0	0	0	0	-0.58	-0.53	1	1	0	600	600	0
7/19/2024 8:49	12807	MICK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/19/2024 8:50	17002	RIRO_T2	1	6	5	0.3	0.25	-0.05	0.85	0.91	0	0	0	0	0	0
7/19/2024 8:55	22003	BOHE_T1	293	271	-22	0.56	0.54	-0.02	-0.18	-0.18	0	0	0	0	0	0
7/19/2024 8:55	20401	ASHF_T2	3	2	-1	0.27	0.35	0.08	0	0	0	0	0	0	0	0
7/19/2024 8:55	22001	BOHE_T1	47	35	-12	0.14	0.15	0.01	0	0	0	0	0	0	0	0
7/19/2024 8:55	20403	ASHF_T2	3	6	3	0.13	0.32	0.19	3.04	2.66	0	0	0	0	0	0
7/19/2024 8:56	45802	HEGI_T2	40	43	3	0.77	1.15	0.38	0.27	1.04	1	1	0	300	300	0
7/19/2024 8:57	22002	BOHE_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
7/19/2024 8:57	22001	BOHE_T1	47	35	-12	0.14	0.15	0.01	0	0	0	0	0	0	0	0
7/19/2024 8:57	22003	BOHE_T1	293	271	-22	0.56	0.54	-0.02	0	0	0	0	0	0	0	0
7/19/2024 8:59	22602	KIMB_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
7/19/2024 9:00	63403	HONY_T2	0	1	1	0	0	0	-21.61	-21.61	1	1	0	600	600	0
7/19/2024 9:00	64801	MONE_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/19/2024 9:00	64802	MONE_T2	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
7/19/2024 9:01	13503	MCMI_T2	1	1	0	0.1	0.4	0.3	-0.01	0.04	0	0	0	0	0	0
7/19/2024 9:01	45802	HEGI_T2	43	12	-31	1.15	0.29	-0.86	0.27	1.04	1	1	0	300	300	0
7/19/2024 9:02	50501	MECH_T1	4	4	0	1	1	0	-0.29	-0.6	0	0	0	0	0	0
7/19/2024 9:02	50502	MECH_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
7/19/2024 9:04	41902	REED_T1	0	0	0	0	0	0	2.4	2.36	0	0	0	0	0	0
7/19/2024 9:06	67605	WARW_T1	1	0	-1	0.1	0	-0.1	-0.87	-0.87	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/19/2024 9:09	67605	WARW_T1	1	0	-1	0.1	0	-0.1	-0.87	-0.87	0	0	0	0	0	0
7/19/2024 9:10	54505	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/19/2024 9:10	54504	ENOL_T2	0	1	1	0	0.5	0.5	-0.94	-0.93	1	1	0	600	600	0
7/19/2024 9:10	56802	BENV_T2	9	5	-4	0.31	0.36	0.05	-1.16	-1.08	0	0	0	0	0	0
7/19/2024 9:11	56802	BENV_T2	9	5	-4	0.31	0.36	0.05	-2.32	-2.16	0	0	0	0	0	0
7/19/2024 9:12	54504	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/19/2024 9:12	54501	ENOL_T2	0	0	0	0	0	0	-0.7	-0.59	2	2	0	1200	1200	0
7/19/2024 9:12	54505	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/19/2024 9:12	56802	BENV_T2	9	5	-4	0.31	0.36	0.05	-1.16	-1.08	0	0	0	0	0	0
7/19/2024 9:12	54503	ENOL_T2	0	0	0	0	0	0	-2.16	-2.07	2	2	0	1200	1200	0
7/19/2024 9:12	54502	ENOL_T2	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
7/19/2024 9:13	54505	ENOL_T2	1	1	0	0.2	0.4	0.2	-1.05	-1.02	1	1	0	600	600	0
7/19/2024 9:13	56802	BENV_T2	9	5	-4	0.31	0.36	0.05	-3.48	-3.24	0	0	0	0	0	0
7/19/2024 9:13	54504	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/19/2024 9:14	54504	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/19/2024 9:14	54505	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/19/2024 9:14	54503	ENOL_T2	0	0	0	0	0	0	-1.08	-1.04	1	1	0	600	600	0
7/19/2024 9:14	52403	GRPA_T2	0	0	0	0	0	0	0.39	0.33	0	0	0	0	0	0
7/19/2024 9:15	54503	ENOL_T2	0	0	0	0	0	0	-2.16	-2.07	2	2	0	1200	1200	0
7/19/2024 9:15	54504	ENOL_T2	1	1	0	0.2	0.5	0.3	-0.94	-0.93	1	1	0	600	600	0
7/19/2024 9:15	26801	JAFR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 9:15	26803	JAFR_T1	11	4	-7	0.14	0.38	0.24	0	0	1	1	0	900	900	0
7/19/2024 9:15	54505	ENOL_T2	1	1	0	0.4	0.4	0	-1.05	-1.02	1	1	0	600	600	0
7/19/2024 9:15	26802	JAFR_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 9:17	58401	MORO_T1	0	0	0	0	0	0	-0.75	-0.75	1	1	0	600	600	0
7/19/2024 9:18	65604	QVIL_T2	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
7/19/2024 9:20	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 9:20	56504	ROCK_T2	0	0	0	0	0	0	-0.03	0.01	0	0	0	0	0	0
7/19/2024 9:20	56501	ROCK_T2	145	146	1	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
7/19/2024 9:22	60201	ATGL_T2	0	0	0	0	0	0	1.07	1.15	0	0	0	0	0	0
7/19/2024 9:22	20403	ASHF_T2	6	4	-2	0.32	0.23	-0.09	1.4	1.36	0	0	0	0	0	0
7/19/2024 9:22	20401	ASHF_T2	2	4	2	0.35	0.35	0	0	0	0	0	0	0	0	0
7/19/2024 9:22	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 9:22	14801	TREI_T2	2	1	-1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/19/2024 9:25	20403	ASHF_T2	6	4	-2	0.32	0.23	-0.09	1.4	1.36	0	0	0	0	0	0
7/19/2024 9:25	20401	ASHF_T2	2	4	2	0.35	0.35	0	0	0	0	0	0	0	0	0
7/19/2024 9:26	56803	BENV_T1	0	1	1	0	0	0	0.65	0.67	0	0	0	0	0	0
7/19/2024 9:26	56801	BENV_T1	15	14	-1	0.47	0.36	-0.11	0	0	0	0	0	0	0	0
7/19/2024 9:29	67803	WLAN_T1	0	0	0	0	0	0	-1.3	-1.27	0	0	0	0	0	0
7/19/2024 9:29	67804	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/19/2024 9:30	13501	MCMI_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
7/19/2024 9:34	46302	ROHR_T1	4	4	0	2.05	1.78	-0.27	0	0	0	0	0	0	0	0
7/19/2024 9:34	56504	ROCK_T2	0	0	0	0	0	0	0.01	0.06	0	0	0	0	0	0
7/19/2024 9:34	46301	ROHR_T1	47	4	-43	0.17	0.48	0.31	0.33	0.33	0	0	0	0	0	0
7/19/2024 9:34	67203	TEHI_T1	8	1	-7	0.51	0.4	-0.11	3.02	3.05	3	3	0	2100	2100	0
7/19/2024 9:34	67201	TEHI_T1	10	1	-9	0.46	0	-0.46	0	0	0	0	0	0	0	0
7/19/2024 9:34	56501	ROCK_T2	145	32	-113	0.28	0.24	-0.04	-1.6	-1.61	0	0	0	0	0	0
7/19/2024 9:35	15703	TANN_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
7/19/2024 9:35	15702	TANN_T2	0	0	0	0	0	0	-0.28	-0.22	0	0	0	0	0	0
7/19/2024 9:36	46302	ROHR_T1	4	4	0	2.05	1.78	-0.27	0.26	0.25	0	0	0	0	0	0
7/19/2024 9:36	46301	ROHR_T1	47	4	-43	0.17	0.48	0.31	0	0	0	0	0	0	0	0
7/19/2024 9:38	24902	WHHA_T1	1	4	3	0.7	0.25	-0.45	0.84	0.88	0	0	0	0	0	0
7/19/2024 9:38	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 9:40	60803	BUCK_T1	18	16	-2	0.68	0.53	-0.15	0	0	0	0	0	0	0	0
7/19/2024 9:40	60801	BUCK_T1	41	15	-26	0.3	0.22	-0.08	0.09	0.21	0	0	0	0	0	0
7/19/2024 9:41	29401	BELT_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/19/2024 9:41	29402	BELT_T1	1	3	2	8	4.2	-3.8	0	0	0	0	0	0	0	0
7/19/2024 9:41	56501	ROCK_T2	145	32	-113	0.28	0.24	-0.04	-1.61	-1.53	0	0	0	0	0	0
7/19/2024 9:42	60803	BUCK_T1	18	16	-2	0.68	0.53	-0.15	0	0	0	0	0	0	0	0
7/19/2024 9:42	23202	HIRU_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
7/19/2024 9:42	23201	HIRU_T2	0	7	7	0	0.19	0.19	0	0	0	0	0	0	0	0
7/19/2024 9:42	60801	BUCK_T1	41	15	-26	0.3	0.22	-0.08	0.09	0.21	0	0	0	0	0	0
7/19/2024 9:43	29401	BELT_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/19/2024 9:43	29402	BELT_T1	1	3	2	8	4.2	-3.8	0	0	0	0	0	0	0	0
7/19/2024 9:44	52402	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/19/2024 9:44	52404	GRPA_T2	0	0	0	0	0	0	1.67	0.3	0	0	0	0	0	0
7/19/2024 9:44	47001	HUGH_T2	3	3	0	7.57	7.63	0.06	-0.73	-0.69	1	1	0	900	900	0
7/19/2024 9:46	13501	MCMI_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
7/19/2024 9:47	47001	HUGH_T2	3	3	0	7.57	7.5	-0.07	-0.73	-0.69	1	1	0	900	900	0
7/19/2024 9:48	65904	SAKR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/19/2024 9:48	65901	SAKR_T2	1	1	0	8.2	8.2	0	-0.98	-0.95	2	2	0	1500	1500	0
7/19/2024 9:49	64101	REFR_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
7/19/2024 9:50	65901	SAKR_T2	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
7/19/2024 9:50	65904	SAKR_T2	0	1	1	0	0.1	0.1	-1.51	-1.51	3	3	0	1500	1500	0
7/19/2024 9:51	24801	VALM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/19/2024 9:57	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/19/2024 9:58	56803	BENV_T1	1	1	0	2.5	2.8	0.3	0	0	0	0	0	0	0	0
7/19/2024 9:58	56801	BENV_T1	11	8	-3	0.36	0.61	0.25	-0.6	-0.53	1	1	0	600	600	0
7/19/2024 10:00	67502	WEWI_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/19/2024 10:00	43301	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
7/19/2024 10:00	40505	CRES_T1	3	3	0	3.6	3.2	-0.4	0.57	0.66	0	0	0	0	0	0
7/19/2024 10:00	17002	RIRO_T2	3	4	1	0.47	0.63	0.16	0.88	0.93	0	0	0	0	0	0
7/19/2024 10:00	56501	ROCK_T2	16	6	-10	0.28	0.42	0.14	-3.07	-2.99	0	0	0	0	0	0
7/19/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
7/19/2024 10:00	43202	MVIL_T2	50	20	-30	0.28	0.21	-0.07	-0.49	-0.47	0	0	0	0	0	0
7/19/2024 10:00	43304	WATS_T2	0	0	0	0	0	0	-0.29	-0.24	0	0	0	0	0	0
7/19/2024 10:00	56504	ROCK_T2	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
7/19/2024 10:03	47401	PENS_T1	4	6	2	0.8	0.78	-0.02	0.18	0.15	0	0	0	0	0	0
7/19/2024 10:03	47403	PENS_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
7/19/2024 10:03	47402	PENS_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/19/2024 10:04	47402	PENS_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/19/2024 10:04	47401	PENS_T1	4	6	2	0.8	0.78	-0.02	0.18	0.15	0	0	0	0	0	0
7/19/2024 10:04	47403	PENS_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
7/19/2024 10:04	56501	ROCK_T2	16	6	-10	0.28	0.42	0.14	-1.53	-1.49	0	0	0	0	0	0
7/19/2024 10:05	47403	PENS_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
7/19/2024 10:05	47402	PENS_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/19/2024 10:05	47401	PENS_T1	4	6	2	0.8	0.78	-0.02	0.18	0.15	0	0	0	0	0	0
7/19/2024 10:07	43202	MVIL_T2	50	20	-30	0.28	0.21	-0.07	-0.47	-0.5	0	0	0	0	0	0
7/19/2024 10:07	41902	REED_T1	0	6	6	0	0.65	0.65	2.6	2.76	0	0	0	0	0	0
7/19/2024 10:08	56501	ROCK_T2	16	6	-10	0.28	0.42	0.14	-1.49	-1.52	0	0	0	0	0	0
7/19/2024 10:08	20403	ASHF_T2	1	3	2	0.3	0.3	0	1.72	1.59	0	0	0	0	0	0
7/19/2024 10:08	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 10:08	20401	ASHF_T2	3	2	-1	0.57	0.1	-0.47	0	0	0	0	0	0	0	0
7/19/2024 10:08	24902	WHHA_T1	2	4	2	0.4	0.6	0.2	0.84	0.83	0	0	0	0	0	0
7/19/2024 10:08	43402	BENT_T1	17	5	-12	0.36	0.44	0.08	-0.72	-0.61	1	1	0	900	900	0
7/19/2024 10:09	58006	WCAR_T2	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
7/19/2024 10:09	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 10:09	20401	ASHF_T2	3	2	-1	0.57	0.1	-0.47	0.14	0.15	0	0	0	0	0	0
7/19/2024 10:09	21203	ECAR_T1	0	2	2	0	0.6	0.6	-0.07	-0.05	0	0	0	0	0	0
7/19/2024 10:09	24902	WHHA_T1	2	4	2	0.4	0.6	0.2	0.84	0.83	0	0	0	0	0	0
7/19/2024 10:09	20403	ASHF_T2	1	3	2	0.3	0.3	0	3.45	3.18	0	0	0	0	0	0
7/19/2024 10:09	56501	ROCK_T2	16	6	-10	0.28	0.42	0.14	-1.49	-1.52	0	0	0	0	0	0
7/19/2024 10:09	56802	BENV_T2	1	5	4	0.5	0.52	0.02	-1.02	-0.91	0	0	0	0	0	0
7/19/2024 10:10	20403	ASHF_T2	1	3	2	0.3	0.3	0	1.72	1.59	0	0	0	0	0	0
7/19/2024 10:10	60803	BUCK_T1	14	10	-4	0.36	0.27	-0.09	0	0	0	0	0	0	0	0
7/19/2024 10:10	43402	BENT_T1	17	5	-12	0.36	0.44	0.08	-0.72	-0.61	1	1	0	900	900	0
7/19/2024 10:10	54504	ENOL_T2	0	0	0	0	0	0	-0.89	-0.82	1	1	0	600	600	0
7/19/2024 10:10	60801	BUCK_T1	4	0	-4	0.13	0	-0.13	0.43	0.47	0	0	0	0	0	0
7/19/2024 10:10	20401	ASHF_T2	3	2	-1	0.57	0.1	-0.47	0	0	0	0	0	0	0	0
7/19/2024 10:11	44801	EDAN_T2	8	6	-2	0.48	0.32	-0.16	-1.36	-1.33	0	0	0	0	0	0
7/19/2024 10:11	56803	BENV_T1	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
7/19/2024 10:11	56501	ROCK_T2	16	6	-10	0.28	0.42	0.14	-1.49	-1.52	0	0	0	0	0	0
7/19/2024 10:11	56801	BENV_T1	6	8	2	0.73	0.6	-0.13	-0.53	-0.53	1	1	0	600	600	0
7/19/2024 10:11	56802	BENV_T2	1	5	4	0.5	0.52	0.02	-1.02	-0.91	0	0	0	0	0	0
7/19/2024 10:12	56803	BENV_T1	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
7/19/2024 10:12	56802	BENV_T2	1	5	4	0.5	0.52	0.02	-1.02	-0.91	0	0	0	0	0	0
7/19/2024 10:12	56801	BENV_T1	6	8	2	0.73	0.6	-0.13	-0.53	-0.52	1	1	0	600	600	0
7/19/2024 10:13	64305	LINC_T1	1	1	0	0.2	0.4	0.2	0.4	0.42	0	0	0	0	0	0
7/19/2024 10:13	56803	BENV_T1	1	1	0	2.8	3	0.2	0.78	0.79	0	0	0	0	0	0
7/19/2024 10:13	56801	BENV_T1	6	8	2	0.73	0.6	-0.13	0	0	0	0	0	0	0	0
7/19/2024 10:13	54505	ENOL_T2	0	0	0	0	0	0	-2.04	-1.96	2	2	0	1200	1200	0
7/19/2024 10:13	56802	BENV_T2	1	5	4	0.5	0.52	0.02	-1.02	-0.91	0	0	0	0	0	0
7/19/2024 10:14	23202	HIRU_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
7/19/2024 10:14	23201	HIRU_T2	6	2	-4	0.18	0.2	0.02	0	0	0	0	0	0	0	0
7/19/2024 10:15	54501	ENOL_T2	0	0	0	0	0	0	-0.53	-0.54	2	2	0	1200	1200	0
7/19/2024 10:15	25503	MADI_T1	30	14	-16	0.18	0.24	0.06	-0.77	-0.74	0	0	0	0	0	0
7/19/2024 10:16	55002	NEWP_T1	5	7	2	0.8	0.84	0.04	-0.09	-0.09	0	0	0	0	0	0
7/19/2024 10:20	55002	NEWP_T1	5	7	2	0.8	0.84	0.04	-0.09	-0.09	0	0	0	0	0	0
7/19/2024 10:20	58001	WCAR_T1	4	4	0	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
7/19/2024 10:20	58003	WCAR_T1	1	1	0	1	1	0	0.89	0.85	0	0	0	0	0	0
7/19/2024 10:21	67201	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 10:21	67203	TEHI_T1	1	1	0	0.7	0.5	-0.2	3.03	3.08	3	3	0	2100	2100	0
7/19/2024 10:21	58001	WCAR_T1	4	4	0	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
7/19/2024 10:21	58003	WCAR_T1	1	1	0	1	1	0	0.89	0.85	0	0	0	0	0	0
7/19/2024 10:22	65602	QVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/19/2024 10:22	56501	ROCK_T2	6	0	0	0.43	0.37	-0.06	-1.52	-1.46	0	0	0	0	0	0
7/19/2024 10:22	15703	TANN_T2	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
7/19/2024 10:22	56802	BENV_T2	5	5	0	0.52	0.32	-0.2	-0.91	-0.98	0	0	0	0	0	0
7/19/2024 10:22	65604	QVIL_T2	0	0	0	0	0	0	0.64	0.68	0	0	0	0	0	0
7/19/2024 10:22	26402	INOR_T1	0	1	1	0	0.1	0.1	-1.55	-1.53	1	1	0	600	600	0
7/19/2024 10:22	15702	TANN_T2	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
7/19/2024 10:22	26401	INOR_T1	3	1	-2	2.57	7.7	5.13	0	0	0	0	0	0	0	0
7/19/2024 10:23	15702	TANN_T2	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
7/19/2024 10:23	56501	ROCK_T2	6	6	0	0.43	0.37	-0.06	-1.52	-1.46	0	0	0	0	0	0
7/19/2024 10:23	15703	TANN_T2	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
7/19/2024 10:24	15702	TANN_T2	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
7/19/2024 10:24	15703	TANN_T2	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
7/19/2024 10:24	29402	BELT_T1	1	81	80	0.5	0.56	0.06	0	0	0	0	0	0	0	0
7/19/2024 10:26	62104	ELAN_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/19/2024 10:26	62105	ELAN_T1	0	0	0	0	0	0	0.7	0.75	0	0	0	0	0	0
7/19/2024 10:26	62102	ELAN_T1	3	3	0	0.77	0.9	0.13	0	0	0	0	0	0	0	0
7/19/2024 10:26	59101	WALK_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/19/2024 10:27	29401	BELT_T1	0	0	0	0	0	0	0	0	2	0	-2	1800	0	-1800
7/19/2024 10:27	29402	BELT_T1	1	81	80	0.5	0.56	0.06	0	0	0	0	0	0	0	0
7/19/2024 10:28	55002	NEWP_T1	5	7	2	0.8	0.84	0.04	-0.09	-0.06	0	0	0	0	0	0
7/19/2024 10:28	46801	HEPB_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/19/2024 10:28	46803	HEPB_T2	1	1	0	0.6	0.4	-0.2	0.64	0.69	0	0	0	0	0	0
7/19/2024 10:29	29402	BELT_T1	1	81	80	0.5	0.56	0.06	0	0	0	0	0	0	0	0
7/19/2024 10:29	52004	LING_T2	3	3	0	1.87	1.87	0	0	0	0	0	0	0	0	0
7/19/2024 10:29	52002	LING_T2	0	0	0	0	0	0	0.99	0.98	0	0	0	0	0	0
7/19/2024 10:29	47001	HUGH_T2	3	4	1	7.43	6.7	-0.73	-0.66	-1.22	1	1	0	900	900	0
7/19/2024 10:30	52004	LING_T2	3	3	0	1.67	1.87	0.2	0	0	0	0	0	0	0	0
7/19/2024 10:30	13503	MCMI_T2	225	178	-47	0.62	0.35	-0.27	-1.55	-1.54	0	0	0	0	0	0
7/19/2024 10:30	52002	LING_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
7/19/2024 10:31	52002	LING_T2	0	0	0	0	0	0	0.99	0.98	0	0	0	0	0	0
7/19/2024 10:31	52004	LING_T2	3	3	0	1.67	1.87	0.2	0	0	0	0	0	0	0	0
7/19/2024 10:31	64203	KINZ_T1	1	1	0	0.5	0	-0.5	1.08	1.16	2	2	0	900	900	0
7/19/2024 10:31	64204	KINZ_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/19/2024 10:32	48303	ORWI_T2	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
7/19/2024 10:32	48302	ORWI_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/19/2024 10:33	13503	MCMI_T2	225	178	-47	0.62	0.35	-0.27	-0.78	-0.77	0	0	0	0	0	0
7/19/2024 10:34	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 10:34	55003	NEWP_T2	1	0	-1	0.1	0	-0.1	0.26	0.27	0	0	0	0	0	0
7/19/2024 10:34	55002	NEWP_T1	7	7	0	0.79	0.79	0	-0.09	-0.06	0	0	0	0	0	0
7/19/2024 10:35	13503	MCMI_T2	225	178	-47	0.62	0.35	-0.27	-0.78	-0.77	0	0	0	0	0	0
7/19/2024 10:35	63402	HONY_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/19/2024 10:35	63403	HONY_T2	0	0	0	0	0	0	-21.61	-21.61	1	1	0	600	600	0
7/19/2024 10:36	48302	ORWI_T2	0	2	2	0	0.3	0.3	0.26	-0.32	0	0	0	0	0	0
7/19/2024 10:36	43304	WATS_T2	0	0	0	0	0	0	-0.26	-0.2	0	0	0	0	0	0
7/19/2024 10:36	59101	WALK_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
7/19/2024 10:37	25603	ARRO_T1	1	2	1	0.5	0.4	-0.1	0.15	0.15	0	0	0	0	0	0
7/19/2024 10:37	67605	WARW_T1	1	1	0	0.5	0.8	0.3	-1.61	-1.48	0	0	0	0	0	0
7/19/2024 10:37	16302	ALPA_T2	0	1	1	0	0.1	0.1	0	0.02	0	0	0	0	0	0
7/19/2024 10:37	60801	BUCK_T1	0	1	1	0	0.2	0.2	0.25	0.24	0	0	0	0	0	0
7/19/2024 10:37	60803	BUCK_T1	9	12	3	0.23	0.3	0.07	0	0	0	0	0	0	0	0
7/19/2024 10:38	20401	ASHF_T2	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 10:38	43402	BENT_T1	2	3	1	0.25	0.33	0.08	-0.61	-0.56	1	1	0	900	900	0
7/19/2024 10:38	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 10:38	20403	ASHF_T2	2	1	-1	0.3	0.4	0.1	1.61	1.76	0	0	0	0	0	0
7/19/2024 10:38	60201	ATGL_T2	0	0	0	0	0	0	2.41	2.17	0	0	0	0	0	0
7/19/2024 10:38	67605	WARW_T1	1	1	0	0.5	0.8	0.3	-0.81	-0.74	0	0	0	0	0	0
7/19/2024 10:38	67605	WARW_T1	1	1	0	0.5	0.8	0.3	-0.81	-0.74	0	0	0	0	0	0
7/19/2024 10:38	67605	WARW_T1	1	1	0	0.5	0.8	0.3	-0.81	-0.74	0	0	0	0	0	0
7/19/2024 10:38	67605	WARW_T1	1	1	0	0.5	0.8	0.3	-0.81	-0.74	0	0	0	0	0	0
7/19/2024 10:39	67203	TEHI_T1	1	5	4	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/19/2024 10:39	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 10:39	43301	WATS_T2	0	0	0	0	0	0	-0.36	-0.35	1	1	0	900	900	0
7/19/2024 10:39	67201	TEHI_T1	1	1	0	0.7	0.6	-0.1	1.62	1.69	1	1	0	600	600	0
7/19/2024 10:39	16302	ALPA_T2	0	1	1	0	0.1	0.1	0	0.02	0	0	0	0	0	0
7/19/2024 10:40	16302	ALPA_T2	0	1	1	0	0.1	0.1	0	0.02	0	0	0	0	0	0
7/19/2024 10:40	43304	WATS_T2	0	0	0	0	0	0	-0.26	-0.2	0	0	0	0	0	0
7/19/2024 10:40	67605	WARW_T1	1	1	0	0.5	0.8	0.3	-1.61	-1.48	0	0	0	0	0	0
7/19/2024 10:40	67603	WARW_T1	0	0	0	0	0	0	0.2	0.27	0	0	0	0	0	0
7/19/2024 10:41	43301	WATS_T2	0	0	0	0	0	0	-0.36	-0.35	1	1	0	900	900	0
7/19/2024 10:41	67603	WARW_T1	0	0	0	0	0	0	0.2	0.27	0	0	0	0	0	0
7/19/2024 10:41	67605	WARW_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
7/19/2024 10:41	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 10:41	16302	ALPA_T2	0	1	1	0	0.1	0.1	0	0.02	0	0	0	0	0	0
7/19/2024 10:43	40101	HUNT_T2	0	2	2	0	0	0	-0.29	-0.28	0	0	0	0	0	0
7/19/2024 10:44	44801	EDAN_T2	5	8	3	0.28	0.6	0.32	-1.29	-1.29	0	0	0	0	0	0
7/19/2024 10:44	28403	HART_T2	0	0	0	0	0	0	-0.72	-0.73	1	1	0	900	900	0
7/19/2024 10:44	47001	HUGH_T2	3	5	2	7.27	5.42	-1.85	-1.22	-1.15	1	1	0	900	900	0
7/19/2024 10:45	56802	BENV_T2	2	1	-1	0.6	0.8	0.2	-0.98	-0.98	0	0	0	0	0	0
7/19/2024 10:47	47001	HUGH_T2	4	6	2	6.7	4.5	-2.2	-1.22	-1.15	1	1	0	900	900	0
7/19/2024 10:48	65001	NEFF_T2	0	0	0	0	0	0	0.07	0.02	1	1	0	1200	1200	0
7/19/2024 10:48	16204	POFA_T1	5	6	1	0.26	0.37	0.11	0	0	0	0	0	0	0	0
7/19/2024 10:48	65003	NEFF_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/19/2024 10:48	16202	POFA_T1	2	3	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/19/2024 10:49	22602	KIMB_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
7/19/2024 10:49	22601	KIMB_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
7/19/2024 10:52	65601	QVIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
7/19/2024 10:52	65603	QVIL_T2	0	0	0	0	0	0	0.87	0.96	0	0	0	0	0	0
7/19/2024 10:54	24902	WHHA_T1	6	8	2	0.78	0.54	-0.24	0.85	0.89	0	0	0	0	0	0
7/19/2024 10:54	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 10:55	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/19/2024 10:55	44801	EDAN_T2	6	8	2	0.5	0.61	0.11	-1.29	-1.29	0	0	0	0	0	0
7/19/2024 10:59	28805	LAKE_T1	1	1	0	0.3	0.2	-0.1	-0.14	-0.14	0	0	0	0	0	0
7/19/2024 10:59	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 10:59	52402	GRPA_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
7/19/2024 10:59	52403	GRPA_T2	4	9	5	0.5	0.1	-0.4	0.53	0.61	0	0	0	0	0	0
7/19/2024 11:00	40101	HUNT_T2	2	0	-2	0.6	0	-0.6	-0.28	-0.27	0	0	0	0	0	0
7/19/2024 11:01	52402	GRPA_T2	0	7	7	0	0.41	0.41	0	0	0	0	0	0	0	0
7/19/2024 11:01	52403	GRPA_T2	5	6	1	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
7/19/2024 11:01	52401	GRPA_T2	1	0	-1	0.4	0	-0.4	-0.39	-0.46	0	0	0	0	0	0
7/19/2024 11:03	58402	MORO_T1	0	1	1	0	0.8	0.8	-0.42	-0.55	3	3	0	2400	2400	0
7/19/2024 11:05	58402	MORO_T1	0	1	1	0	0.8	0.8	-0.42	-0.55	3	3	0	2400	2400	0
7/19/2024 11:07	65901	SAKR_T2	1	1	0	7.7	7.9	0.2	-0.85	-0.86	2	2	0	1500	1500	0
7/19/2024 11:09	59202	THOM_T1	8	3	-5	0.28	0.4	0.12	0	0	0	0	0	0	0	0
7/19/2024 11:09	54602	SUMM_T2	0	0	0	0	0	0	-1.99	-1.96	1	1	0	600	600	0
7/19/2024 11:10	56802	BENV_T2	1	5	4	0.6	0.36	-0.24	-0.9	-0.85	0	0	0	0	0	0
7/19/2024 11:11	56801	BENV_T1	4	5	1	0.88	0.56	-0.32	-0.47	-0.46	1	1	0	600	600	0
7/19/2024 11:11	56803	BENV_T1	1	2	1	3	0.1	-2.9	0	0	0	0	0	0	0	0
7/19/2024 11:12	56802	BENV_T2	1	5	4	0.6	0.36	-0.24	-3.62	-3.38	0	0	0	0	0	0
7/19/2024 11:13	56803	BENV_T1	1	2	1	3	0.1	-2.9	0	0	0	0	0	0	0	0
7/19/2024 11:13	52403	GRPA_T2	5	6	1	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
7/19/2024 11:13	52402	GRPA_T2	0	7	7	0	0.41	0.41	0	0	0	0	0	0	0	0
7/19/2024 11:13	52404	GRPA_T2	0	0	0	0	0	0	0.27	0.22	0	0	0	0	0	0
7/19/2024 11:13	52401	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/19/2024 11:13	56801	BENV_T1	4	5	1	0.88	0.56	-0.32	-0.47	-0.46	1	1	0	600	600	0
7/19/2024 11:13	56802	BENV_T2	1	5	4	0.6	0.36	-0.24	-0.9	-0.85	0	0	0	0	0	0
7/19/2024 11:14	52401	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/19/2024 11:14	52404	GRPA_T2	0	0	0	0	0	0	0.27	0.22	0	0	0	0	0	0
7/19/2024 11:14	56802	BENV_T2	1	5	4	0.6	0.36	-0.24	-3.62	-3.38	0	0	0	0	0	0
7/19/2024 11:14	52402	GRPA_T2	0	7	7	0	0.41	0.41	0	0	0	0	0	0	0	0
7/19/2024 11:14	52403	GRPA_T2	5	6	1	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
7/19/2024 11:16	45702	LIND_T2	1	2	1	0.7	0.7	0	-0.21	-0.32	0	0	0	0	0	0
7/19/2024 11:16	26803	JAFR_T1	4	4	0	0.68	1.25	0.57	0.08	0.07	1	1	0	900	900	0
7/19/2024 11:17	28403	HART_T2	0	0	0	0	0	0	-0.72	-0.72	1	1	0	900	900	0
7/19/2024 11:17	46802	HEPB_T1	1	1	0	0.2	0.2	0	-0.11	-0.06	0	0	0	0	0	0
7/19/2024 11:18	45702	LIND_T2	1	2	1	0.7	0.7	0	-0.21	-0.32	0	0	0	0	0	0
7/19/2024 11:33	25404	LAHA_T2	359	341	-18	0.31	0.31	0	0	0	0	0	0	0	0	0
7/19/2024 11:33	25402	LAHA_T2	9	7	-2	0.53	0.56	0.03	-0.04	-0.48	0	0	0	0	0	0
7/19/2024 11:33	64802	MONE_T2	1	0	-1	0.2	0	-0.2	0.43	0.27	0	0	0	0	0	0
7/19/2024 11:36	24801	VALM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/19/2024 11:37	60801	BUCK_T1	1	1	0	0.2	0.2	0	0.2	0.24	0	0	0	0	0	0
7/19/2024 11:37	60803	BUCK_T1	10	6	-4	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
7/19/2024 11:38	58003	WCAR_T1	3	3	0	0.57	0.4	-0.17	0	0	0	0	0	0	0	0
7/19/2024 11:38	58001	WCAR_T1	4	3	-1	0.4	0.3	-0.1	0.23	0.2	0	0	0	0	0	0
7/19/2024 11:39	59101	WALK_T2	0	0	0	0	0	0	-0.15	0.08	0	0	0	0	0	0
7/19/2024 11:42	56802	BENV_T2	5	1	-4	0.36	1	0.64	-0.84	-0.78	0	0	0	0	0	0
7/19/2024 11:42	45802	HEGI_T2	13	11	-2	0.55	0.32	-0.23	1.19	1.24	2	2	0	600	600	0
7/19/2024 11:44	54502	ENOL_T2	1	1	0	9	9.2	0.2	0	0	0	0	0	0	0	0
7/19/2024 11:44	54504	ENOL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/19/2024 11:44	52004	LING_T2	3	3	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
7/19/2024 11:44	52002	LING_T2	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
7/19/2024 11:44	64302	UNC_T2	0	0	0	0	0	0	1.57	1.48	0	0	0	0	0	0
7/19/2024 11:44	54503	ENOL_T2	0	0	0	0	0	0	-0.89	-0.83	1	1	0	600	600	0
7/19/2024 11:44	11601	CEAL_T1	0	1	1	0	0.7	0.7	0	0	1	1	0	1200	1200	0
7/19/2024 11:46	52402	GRPA_T2	8	4	-4	0.44	0.45	0.01	0	0	0	0	0	0	0	0
7/19/2024 11:46	52403	GRPA_T2	5	15	10	1.5	0.92	-0.58	0.62	0.58	0	0	0	0	0	0
7/19/2024 11:47	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/19/2024 11:47	46801	HEPB_T2	2	0	-2	0.1	0	-0.1	1.06	1.07	0	0	0	0	0	0
7/19/2024 11:48	52002	LING_T2	0	2	2	0	0	0	0.63	0.64	0	0	0	0	0	0
7/19/2024 11:48	52004	LING_T2	3	3	0	2	2.07	0.07	0	0	0	0	0	0	0	0
7/19/2024 11:51	13503	MCMI_T2	1	223	222	0.1	0.59	0.49	0.14	-0.7	0	0	0	0	0	0
7/19/2024 11:51	24204	PROV_T3	1	1	0	7.2	6.4	-0.8	0	0	0	0	0	0	0	0
7/19/2024 11:51	24201	PROV_T3	3	3	0	4.47	4	-0.47	-0.93	-0.98	1	1	0	1200	1200	0
7/19/2024 11:53	64101	REDR_T1	0	6	6	0	0.13	0.13	0.42	0.44	0	0	0	0	0	0
7/19/2024 11:53	60803	BUCK_T1	6	13	7	0.18	0.37	0.19	0	0	0	0	0	0	0	0
7/19/2024 11:53	60801	BUCK_T1	1	3	2	0.2	0.43	0.23	0.24	0.15	0	0	0	0	0	0
7/19/2024 11:54	60801	BUCK_T1	1	3	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
7/19/2024 11:54	60803	BUCK_T1	6	13	7	0.18	0.37	0.19	-0.6	-0.51	2	2	0	1200	1200	0
7/19/2024 11:56	60801	BUCK_T1	1	3	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
7/19/2024 11:56	61803	EELI_T2	1	1	0	1.2	1.5	0.3	1.41	1.51	0	0	0	0	0	0
7/19/2024 11:56	61801	EELI_T2	3	5	2	0.13	0.4	0.27	0	0	0	0	0	0	0	0
7/19/2024 11:56	52403	GRPA_T2	5	15	10	1.5	0.92	-0.58	0	0	0	0	0	0	0	0
7/19/2024 11:56	52402	GRPA_T2	8	4	-4	0.44	0.45	0.01	-0.6	-0.53	0	0	0	0	0	0
7/19/2024 11:56	60803	BUCK_T1	6	13	7	0.18	0.37	0.19	-0.3	-0.25	1	1	0	600	600	0
7/19/2024 11:57	11102	EGYP_T1	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
7/19/2024 11:57	11104	EGYP_T1	5	7	2	1.62	1.57	-0.05	1.14	1.11	0	0	0	0	0	0
7/19/2024 11:57	60801	BUCK_T1	1	3	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
7/19/2024 11:57	60803	BUCK_T1	6	13	7	0.18	0.37	0.19	-0.3	-0.25	1	1	0	600	600	0
7/19/2024 11:57	11103	EGYP_T1	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/19/2024 11:57	11101	EGYP_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/19/2024 11:58	11102	EGYP_T1	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
7/19/2024 11:58	11103	EGYP_T1	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/19/2024 11:58	52403	GRPA_T2	5	15	10	1.5	0.92	-0.58	0	0	0	0	0	0	0	0
7/19/2024 11:58	11104	EGYP_T1	5	7	2	1.62	1.57	-0.05	2.28	2.22	0	0	0	0	0	0
7/19/2024 11:58	52402	GRPA_T2	8	4	-4	0.44	0.45	0.01	-0.6	-0.53	0	0	0	0	0	0
7/19/2024 11:58	11101	EGYP_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/19/2024 12:02	13503	MCMI_T2	16	238	222	0.56	0.81	0.25	-0.7	-0.72	0	0	0	0	0	0
7/19/2024 12:04	13503	MCMI_T2	16	238	222	0.56	0.81	0.25	-0.7	-0.72	0	0	0	0	0	0
7/19/2024 12:05	47403	PENS_T1	3	7	4	0.97	0.54	-0.43	0	0	0	0	0	0	0	0
7/19/2024 12:05	67402	WAKE_T2	0	0	0	0	0	0	0.09	0.09	1	1	0	600	600	0
7/19/2024 12:05	41902	REED_T1	0	4	4	0	0	0	0.54	1.22	1	0	-1	900	0	-900

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/19/2024 12:05	48301	ORWI_T1	2	3	1	0.9	1.1	0.2	1.07	1.04	0	0	0	0	0	0
7/19/2024 12:05	47401	PENS_T1	4	6	2	1.13	1	-0.13	0.43	0.55	0	0	0	0	0	0
7/19/2024 12:05	16402	MOPO_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 12:05	67401	WAKE_T2	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
7/19/2024 12:05	47402	PENS_T1	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
7/19/2024 12:05	16401	MOPO_T1	1	2	1	0.2	0.2	0	0.32	0.3	0	0	0	0	0	0
7/19/2024 12:05	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 12:06	47403	PENS_T1	3	7	4	0.97	0.54	-0.43	0	0	0	0	0	0	0	0
7/19/2024 12:06	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 12:06	47401	PENS_T1	4	6	2	1.13	1	-0.13	1.64	1.82	0	0	0	0	0	0
7/19/2024 12:06	41902	REED_T1	0	4	4	0	0	0	0.54	1.22	1	0	-1	900	0	-900
7/19/2024 12:06	47402	PENS_T1	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
7/19/2024 12:07	67002	STHI_T2	0	0	0	0	0	0	1.17	1.21	0	0	0	0	0	0
7/19/2024 12:07	44202	POIN_T2	1	1	0	0.7	0	-0.7	-0.31	-0.36	1	1	0	1200	1200	0
7/19/2024 12:07	47401	PENS_T1	4	6	2	1.13	1	-0.13	0.55	0.61	0	0	0	0	0	0
7/19/2024 12:07	47402	PENS_T1	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
7/19/2024 12:07	47403	PENS_T1	3	7	4	0.97	0.54	-0.43	0	0	0	0	0	0	0	0
7/19/2024 12:10	24105	EHAZ_T1	5	5	0	6.78	6.95	0.17	0	0	0	0	0	0	0	0
7/19/2024 12:10	24102	EHAZ_T1	1	1	0	0.5	0.3	-0.2	0.04	0.28	0	0	0	0	0	0
7/19/2024 12:10	24104	EHAZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/19/2024 12:10	24101	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 12:14	61302	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 12:14	56802	BENV_T2	1	1	0	0.6	0.4	-0.2	-0.79	-0.85	0	0	0	0	0	0
7/19/2024 12:14	61301	EARL_T1	0	0	0	0	0	0	-1.22	-1.22	2	2	0	1800	1800

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/19/2024 13:34	47403	PENS_T1	2	1	-1	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
7/19/2024 13:34	60502	NMAN_T2	2	1	-1	0.85	0.4	-0.45	0.04	0.04	0	0	0	0	0	0
7/19/2024 13:34	47402	PENS_T1	1	3	2	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
7/19/2024 13:34	47401	PENS_T1	5	5	0	1.04	1.15	0.11	0.56	0.5	0	0	0	0	0	0
7/19/2024 13:35	64101	REFR_T1	4	10	6	0.38	0.71	0.33	-0.37	-0.42	0	0	0	0	0	0
7/19/2024 13:36	47401	PENS_T1	5	5	0	1.04	1.15	0.11	0.99	1.3	0	0	0	0	0	0
7/19/2024 13:36	55102	WERT_T2	0	0	0	0	0	0	-0.52	-0.39	2	2	0	1200	1200	0
7/19/2024 13:36	47403	PENS_T1	2	1	-1	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
7/19/2024 13:36	64101	REFR_T1	4	10	6	0.38	0.71	0.33	-0.14	-0.12	0	0	0	0	0	0
7/19/2024 13:36	47402	PENS_T1	1	3	2	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
7/19/2024 13:38	64101	REFR_T1	4	10	6	0.38	0.71	0.33	-0.42	-0.36	0	0	0	0	0	0
7/19/2024 13:38	59201	THOM_T1	4	2	-2	0.15	0.3	0.15	0	0	0	0	0	0	0	0
7/19/2024 13:38	59202	THOM_T1	43	30	-13	0.43	0.51	0.08	0	0	0	0	0	0	0	0
7/19/2024 13:39	64101	REFR_T1	4	10	6	0.38	0.71	0.33	-0.14	-0.12	0	0	0	0	0	0
7/19/2024 13:39	59202	THOM_T1	43	30	-13	0.43	0.51	0.08	0	0	0	0	0	0	0	0
7/19/2024 13:39	55101	WERT_T1	0	2	2	0	0	0	-1.65	-1.45	4	4	0	3300	3300	0
7/19/2024 13:39	59201	THOM_T1	4	2	-2	0.15	0.3	0.15	0	0	0	0	0	0	0	0
7/19/2024 13:40	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 13:40	24902	WHHA_T1	6	8	2	0.78	1	0.22	0.96	0.96	0	0	0	0	0	0
7/19/2024 13:44	54506	ENOL_T2	0	0	0	0	0	0	0.32	0.28	1	1	0	600	600	0
7/19/2024 13:45	63803	HEMP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/19/2024 13:45	63804	HEMP_T1	6	1	-5	1.8	7.2	5.4	0.13	0.1	0	0	0	0	0	0
7/19/2024 13:45	63801	HEMP_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/19/2024 13:45	53802	MBRG_T2	0	0	0	0	0	0	1.76	1.51	0	0	0	0	0	0
7/19/2024 13:47	52403	GRPA_T2	36	10	-26	0.75	0.43	-0.32	0.22	0.14	0	0	0	0	0	0
7/19/2024 13:47	52402	GRPA_T2	0	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0
7/19/2024 13:49	42902	MIDD_T2	1	0	-1	0.3	0	-0.3	-0.19	0	1	1	0	600	600	0
7/19/2024 13:49	42903	MIDD_T2	2	2	0	1.5	1.75	0.25	0	0	0	0	0	0	0	0
7/19/2024 13:49	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 13:49	29402	BELT_T1	134	158	24	1.18	0.92	-0.26	0	0	0	0	0	0	0	0
7/19/2024 13:51	55101	WERT_T1	0	2	2	0	0	0	-3.3	-2.91	8	8	0	6600	6600	0
7/19/2024 13:52	55101	WERT_T1	0	2	2	0	0	0	-2.91	-3.25	8	8	0	6600	6600	0
7/19/2024 13:52	67503	WEWI_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/19/2024 13:52	67502	WEWI_T2	0	2	2	0	0.2	0.2	-0.67	-0.65	1	1	0	900	900	0
7/19/2024 13:53	67801	WLAN_T1	19	0	-19	0.38	0	-0.38	0	0	0	0	0	0	0	0
7/19/2024 13:53	67502	WEWI_T2	0	2	2	0	0.2	0.2	-1.33	-1.29	2	2	0	1800	1800	0
7/19/2024 13:53	67503	WEWI_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/19/2024 13:53	67803	WLAN_T1	0	0	0	0	0	0	-0.94	-0.89	0	0	0	0	0	0
7/19/2024 13:53	67804	WLAN_T1	8	4	-4	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/19/2024 13:54	67801	WLAN_T1	19	0	-19	0.38	0	-0.38	0	0	0	0	0	0	0	0
7/19/2024 13:54	67502	WEWI_T2	0	2	2	0	0.2	0.2	-1.33	-1.29	2	2	0	1800	1800	0
7/19/2024 13:54	67503	WEWI_T2	1	1	0	0.4	0	-0.4	0.6	0.61	0	0	0	0	0	0
7/19/2024 13:54	67805	WLAN_T1	0	0	0	0	0	0	-0.39	-0.26	0	0	0	0	0	0
7/19/2024 13:54	67804	WLAN_T1	8	4	-4	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/19/2024 13:55	46004	BERW_T2	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
7/19/2024 13:56	54502	ENOL_T2	1	1	0	9.7	9.3	-0.4	0	0	0	0	0	0	0	0
7/19/2024 13:56	55101	WERT_T1	0	2	2	0	0	0	-1.45	-1.62	4	4	0	3300	3300	0
7/19/2024 13:56	54505	ENOL_T2	0	0	0	0	0	0	-0.72	-0.69	1	1	0	600	600	0
7/19/2024 13:57	11507	FREE_T2	1	3	2	1.2	0.6	-0.6	0.66	0.7	1	1	0	600	600	0
7/19/2024 13:58	63803	HEMP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/19/2024 13:58	22003	BOHE_T1	1	2	1	0.9	1	0.1	0	0	0	0	0	0	0	0
7/19/2024 13:58	63305	GREE_T1	0	0	0	0	0	0	-3.07	-3.1	2	2	0	1800	1800	0
7/19/2024 13:58	63801	HEMP_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/19/2024 13:58	44801	EDAN_T2	5	9	4	0.42	0.46	0.04	-1.21	-1.2	0	0	0	0	0	0
7/19/2024 13:58	63804	HEMP_T1	6	1	-5	1.8	7.2	5.4	0	0	0	0	0	0	0	0
7/19/2024 13:58	22001	BOHE_T1	0	1	1	0	0	0	0	-0.01	1	1	0	600	600	0
7/19/2024 13:58	63306	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/19/2024 13:58	63802	HEMP_T1	0	0	0	0	0	0	0.67	0.59	0	0	0	0	0	0
7/19/2024 13:59	12701	MACU_T1	0	0	0	0	0	0	-0.7	-0.74	1	1	0	1200	1200	0
7/19/2024 13:59	46803	HEPB_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/19/2024 13:59	46801	HEPB_T2	0	0	0	0	0	0	1.11	1.13	0	0	0	0	0	0
7/19/2024 13:59	54502	ENOL_T2	1	1	0	9.7	9.3	-0.4	0	0	0	0	0	0	0	0
7/19/2024 13:59	54505	ENOL_T2	0	0	0	0	0	0	-0.72	-0.69	1	1	0	600	600	0
7/19/2024 13:59	47101	MARL_T1	15	19	4	1.16	1.63	0.47	-0.13	-0.16	0	0	0	0	0	0
7/19/2024 14:01	12701	MACU_T1	0	0	0	0	0	0	-0.7	-0.74	1	1	0	1200	1200	0
7/19/2024 14:01	47101	MARL_T1	17	12	-5	0.97	1.97	1	-0.13	-0.16	0	0	0	0	0	0
7/19/2024 14:02	47101	MARL_T1	17	12	-5	0.97	1.97	1	-0.27	-0.31	0	0	0	0	0	0
7/19/2024 14:03	24204	PROV_T3	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
7/19/2024 14:03	51004	NHAR_T1	1	1	0	7.2	7.2	0	-1.26	-1.27	0	0	0	0	0	0
7/19/2024 14:03	24201	PROV_T3	1	2	1	8.2	8.4	0.2	-0.88	-0.86	1	1	0	1200	1200	0
7/19/2024 14:04	56501	ROCK_T2	2	25	23	0.95	0.3	-0.65	-1.08	-2.32	0	0	0	0	0	0
7/19/2024 14:04	56504	ROCK_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 14:05	47402	PENS_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
7/19/2024 14:05	56504	ROCK_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 14:05	47403	PENS_T1	1	4	3	1	0.98	-0.02	0	0	0	0	0	0	0	0
7/19/2024 14:05	56501	ROCK_T2	2	25	23	0.95	0.3	-0.65	-2.17	-4.65	0	0	0	0	0	0
7/19/2024 14:05	47401	PENS_T1	5	3	-2	0.82	1.43	0.61	0.65	0.56	0	0	0	0	0	0
7/19/2024 14:06	56504	ROCK_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 14:06	24901	WHHA_T1	1	2	1	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 14:06	56501	ROCK_T2	2	25	23	0.95	0.3	-0.65	-1.08	-2.32	0	0	0	0	0	0
7/19/2024 14:06	48301	ORWI_T1	2	3	1	0.6	0.63	0.03	2.16	1.97	0	0	0	0	0	0
7/19/2024 14:06	24902	WHHA_T1	8	13	5	0.89	1.2	0.31	0.96	0.94	0	0	0	0	0	0
7/19/2024 14:07	56501	ROCK_T2	2	25	23	0.95	0.3	-0.65	-2.32	-2.32	0	0	0	0	0	0
7/19/2024 14:07	56504	ROCK_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 14:09	66902	SHIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 14:09	66901	SHIL_T2	0	0	0	0	0	0	-0.88	-0.87	1	1	0	1200	1200	0
7/19/2024 14:11	67401	WAKE_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/19/2024 14:11	67402	WAKE_T2	0	283	283	0	1.56	1.56	0.23	0.47	1	0	-1	600	0	-600
7/19/2024 14:13	46802	HEPB_T1	0	0	0	0	0	0	0.05	0.09	0	0	0	0	0	0
7/19/2024 14:13	10702	CATA_T2	0	0	0	0	0	0	-0.18	-0.22	0	0	0	0	0	0
7/19/2024 14:13	10705	CATA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/19/2024 14:17	12701	MACU_T1	0	0	0	0	0	0	-1.48	-1.42	2	2	0	2400	2400	0
7/19/2024 14:18	64701	LITI_T1	10	7	-3	1.15	0	-1.15	0.74	0.75	0	0	0	0	0	0
7/19/2024 14:27	54502	ENOL_T2	1	1	0	9.3	8.4	-0.9	0	0	0	0	0	0	0	0
7/19/2024 14:27	54501	ENOL_T2	0	0	0	0	0	0	-0.03	0	1	1	0	600	600	0
7/19/2024 14:28	54502	ENOL_T2	1	1	0	9.3	8.4	-0.9	-1.06	-1.06	1	1	0	600	600	0
7/19/2024 14:29	44801	EDAN_T2	6	8	2	0.52	0.46	-0.06	-1.13	-1.18	0	0	0	0	0	0
7/19/2024 14:30	54502	ENOL_T2	1	1	0	8.4	10	1.6	0	0	0	0	0	0	0	0
7/19/2024 14:30	54504	ENOL_T2	0	0	0	0	0	0	-0.63	-1.27	1	1	0	600	600	0
7/19/2024 14:31	56802	BENV_T2	0	0	0	0	0	0	-0.68	-0.75	0	0	0	0	0	0
7/19/2024 14:32	59001	MIFF_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
7/19/2024 14:32	24104	EHAZ_T1	3	2	-1	0.23	0.4	0.17	0	0	0	0	0	0	0	0
7/19/2024 14:32	24105	EHAZ_T1	5	5	0	6.33	6.48	0.15	0	0	0	0	0	0	0	0
7/19/2024 14:32	24101	EHAZ_T1	2	4	2	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/19/2024 14:32	24102	EHAZ_T1	1	1	0	2.3	2.7	0.4	0.3	0.37	0	0	0	0	0	0
7/19/2024 14:32	59002	MIFF_T1	5	5	0	0.28	0.16	-0.12	0	0	0	0	0	0	0	0
7/19/2024 14:32	59003	MIFF_T1	2	2	0	0.9	0.75	-0.15	0.84	1.02	0	0	0	0	0	0
7/19/2024 14:35	67502	WEWI_T2	0	0	0	0	0	0	-0.67	-0.61	1	1	0	900	900	0
7/19/2024 14:35	42201	SHEN_T2	0	0	0	0	0	0	0.71	0.74	0	0	0	0	0	0
7/19/2024 14:36	42201	SHEN_T2	0	0	0	0	0	0	0.71	0.74	0	0	0	0	0	0
7/19/2024 14:37	45801	HEGI_T1	0	0	0	0	0	0	0.27	0.24	1	1	0	900	900	0
7/19/2024 14:38	61102	BERK_T5	0	0	0	0	0	0	0.69	0.8	1	1	0	300	300	0
7/19/2024 14:40	20403	ASHF_T2	3	1	-2	0.17	0	-0.17	1.06	0.84	0	0	0	0	0	0
7/19/2024 14:40	20401	ASHF_T2	1	3	2	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/19/2024 14:40	20402	ASHF_T2	6	7	1	0.37	0.47	0.1	0	0	0	0	0	0	0	0
7/19/2024 14:40	61102	BERK_T5	0	0	0	0	0	0	0.69	0.8	1	1	0	300	300	0
7/19/2024 14:41	56802	BENV_T2	0	0	0	0	0	0	-0.75	-0.65	0	0	0	0	0	0
7/19/2024 14:48	65205	PRIN_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
7/19/2024 14:50	63403	HONY_T2	1	2	1	0.1	0	-0.1	-21.61	-21.61	1	1	0	600	600	0
7/19/2024 14:51	58001	WCAR_T1	0	4	4	0	0.15	0.15	0.31	0.33	0	0	0	0	0	0
7/19/2024 14:51	58003	WCAR_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/19/2024 14:51	55001	NEWP_T1	2	8	6	1.05	0	-1.05	0.48	0.54	0	0	0	0	0	0
7/19/2024 14:51	55002	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/19/2024 14:53	67804	WLAN_T1	8	4	-4	0.49	0.35	-0.14	0	0	0	0	0	0	0	0
7/19/2024 14:53	67801	WLAN_T1	0	1	1	0	0	0	-0.6	-0.47	0	0	0	0	0	0
7/19/2024 14:55	46004	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 14:55	46002	BERW_T2	0	0	0	0	0	0	-0.96	-1.06	1	1	0	900	900	0
7/19/2024 14:56	44801	EDAN_T2	7	7	0	0.43	0.52	0.09	-1.14	-1.18	0	0	0	0	0	0
7/19/2024 14:56	67804	WLAN_T1	8	4	-4	0.49	0.35	-0.14	0	0	0	0	0	0	0	0
7/19/2024 14:56	58001	WCAR_T1	0	4	4	0	0.15	0.15	0.33	0.33	0	0	0	0	0	0
7/19/2024 14:56	67801	WLAN_T1	0	1	1	0	0	0	-0.6	-0.47	0	0	0	0	0	0
7/19/2024 14:56	58003	WCAR_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/19/2024 14:57	56801	BENV_T1	0	5	5	0	0.42	0.42	0	0	0	0	0	0	0	0
7/19/2024 14:57	56803	BENV_T1	2	4	2	1.4	2.7	1.3	0.42	0.29	1	1	0	600	600	0
7/19/2024 14:58	28701	HAML_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
7/19/2024 14:58	28702	HAML_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
7/19/2024 15:00	52403	GRPA_T2	14	41	27	0.92	0.67	-0.25	0.14	-0.32	0	0	0	0	0	0
7/19/2024 15:00	52401	GRPA_T2	2	8	6	0.25	0.26	0.01	0	0	0	0	0	0	0	0
7/19/2024 15:00	64704	LITI_T1	0	0	0	0	0	0	0.27	0.29	1	1	0	600	600	0
7/19/2024 15:00	52402	GRPA_T2	3	8	5	0.83	0.7	-0.13	0	0	0	0	0	0	0	0
7/19/2024 15:00	64701	LITI_T1	13	10	-3	0.8	1.28	0.48	0	0	0	0	0	0	0	0
7/19/2024 15:00	52404	GRPA_T2	1	3	2	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/19/2024 15:01	52004	LING_T2	2	2	0	2.4	2.2	-0.2	0	0	0	0	0	0	0	0
7/19/2024 15:01	52002	LING_T2	0	0	0	0	0	0	0.13	0.06	1	1	0	900	900	0
7/19/2024 15:02	52403	GRPA_T2	14	41	27	0.92	0.67	-0.25	0	0	0	0	0	0	0	0
7/19/2024 15:02	52401	GRPA_T2	2	8	6	0.25	0.26	0.01	0	0	0	0	0	0	0	0
7/19/2024 15:02	52404	GRPA_T2	1	3	2	0.5	0	-0.5	0.32	0.36	0	0	0	0	0	0
7/19/2024 15:02	52402	GRPA_T2	3	8	5	0.83	0.7	-0.13	0	0	0	0	0	0	0	0
7/19/2024 15:03	52002	LING_T2	0	0	0	0	0	0	0.13	0.06	1	1	0	900	900	0
7/19/2024 15:03	52004	LING_T2	2	2	0	2.4	2.2	-0.2	0	0	0	0	0	0	0	0
7/19/2024 15:07	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.1	0	0	0	0	0	0
7/19/2024 15:08	64101	REFR_T1	0	0	0	0	0	0	-0.39	-0.3	0	0	0	0	0	0
7/19/2024 15:13	56802	BENV_T2	0	0	0	0	0	0	-0.65	-0.68	0	0	0	0	0	0
7/19/2024 15:14	20601	GRWO_T2	12	28	16	0.63	0.52	-0.11	0.47	0.46	0	0	0	0	0	0
7/19/2024 15:14	24702	FLND_T2	2	1	-1	0.45	0.9	0.45	0.37	0.51	1	1	0	1200	1200	0
7/19/2024 15:17	14202	EALL_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
7/19/2024 15:17	14204	EALL_T2	0	0	0	0	0	0	-0.07	-0.11	1	1	0	1200	1200	0
7/19/2024 15:18	11402	FARM_T1	0	4	4	0	0.37	0.37	0	0	0	0	0	0	0	0
7/19/2024 15:18	11401	FARM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 15:18	11406	FARM_T1	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
7/19/2024 15:19	43202	MVIL_T2	1	1	0	0.4	0.6	0.2	-0.45	-0.43	0	0	0	0	0	0
7/19/2024 15:24	64101	REFR_T1	0	3	3	0	0	0	-0.1	-0.1	0	0	0	0	0	0
7/19/2024 15:26	10705	CATA_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/19/2024 15:33	51401	LYKE_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
7/19/2024 15:37	64101	REFR_T1	0	6	6	0	0.43	0.43	-0.1	-0.07	0	0	0	0	0	0
7/19/2024 15:38	45802	HEGI_T2	9	0	-9	0.31	0	-0.31	1.43	1.26	0	0	0	0	0	0
7/19/2024 15:39	64101	REFR_T1	0	6	6	0	0.43	0.43	-0.1	-0.07	0	0	0	0	0	0
7/19/2024 15:40	59102	WALK_T2	4	9	5	0.35	0.26	-0.09	0.81	0.83	0	0	0	0	0	0
7/19/2024 15:43	63501	HEID_TBK1-2	0	0	0	0	0	0	0.43	0.48	1	1	0	900	900	0
7/19/2024 15:43	46206	DANV_T2	16	21	5	0.68	0.67	-0.01	0	0	0	0	0	0	0	0
7/19/2024 15:43	46204	DANV_T2	2	2	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
7/19/2024 15:43	46203	DANV_T2	0	0	0	0	0	0	-0.09	-0.05	0	0	0	0	0	0
7/19/2024 15:44	56802	BENV_T2	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
7/19/2024 15:44	52002	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 15:44	52004	LING_T2	2	2	0	2.1	2.15	0.05	0.62	0.53	0	0	0	0	0	0
7/19/2024 15:45	20601	GRWO_T2	8	8	0	0.85	0.85	0	0.5	0.28	0	0	0	0	0	0
7/19/2024 15:47	63501	HEID_TBK1-2	0	0	0	0	0	0	0.43	0.48	1	1	0	900	900	0
7/19/2024 15:49	64101	REFR_T1	3	6	3	0.43	0	-0.43	-0.1	-0.07	0	0	0	0	0	0
7/19/2024 15:50	65901	SAKR_T2	1	1	0	7	7.3	0.3	-0.48	-0.34	2	2	0	1500	1500	0
7/19/2024 15:51	56501	ROCK_T2	21	98	77	0.23	0.25	0.02	0	0	0	0	0	0	0	0
7/19/2024 15:51	56504	ROCK_T2	4	3	-1	0.1	0	-0.1	0.47	0.41	0	0	0	0	0	0
7/19/2024 15:51	64101	REFR_T1	3	6	3	0.43	0	-0.43	-0.07	-0.06	0	0	0	0	0	0
7/19/2024 15:52	56501	ROCK_T2	21	98	77	0.23	0.25	0.02	0	0	0	0	0	0	0	0
7/19/2024 15:52	56504	ROCK_T2	4	3	-1	0.1	0	-0.1	0.82	0.82	0	0	0	0	0	0
7/19/2024 15:53	56504	ROCK_T2	4	3	-1	0.1	0	-0.1	0.41	0.41	0	0	0	0	0	0
7/19/2024 15:53	56501	ROCK_T2	21	98	77	0.23	0.25	0.02	0	0	0	0	0	0	0	0
7/19/2024 15:54	56501	ROCK_T2	21	98	77	0.23	0.25	0.02	0	0	0	0	0	0	0	0
7/19/2024 15:54	56504	ROCK_T2	4	3	-1	0.1	0	-0.1	0.82	0.82	0	0	0	0	0	0
7/19/2024 15:55	61102	BERK_T5	0	0	0	0	0	0	1.63	1.65	2	2	0	600	600	0
7/19/2024 16:00	20601	GRWO_T2	6	6	0	0.93	0.57	-0.36	0	0	0	0	0	0	0	0
7/19/2024 16:00	20603	GRWO_T2	0	0	0	0	0	0	-0.29	-0.34	1	1	0	900	900	0
7/19/2024 16:01	20601	GRWO_T2	6	6	0	0.93	0.57	-0.36	0	0	0	0	0	0	0	0
7/19/2024 16:01	20603	GRWO_T2	0	0	0	0	0	0	-0.29	-0.34	1	1	0	900	900	0
7/19/2024 16:04	52004	LING_T2	2	2	0	2.15	2	-0.15	0.53	0.19	0	0	0	0	0	0
7/19/2024 16:04	52002	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 16:04	46204	DANV_T2	2	4	2	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/19/2024 16:04	46206	DANV_T2	20	44	24	0.58	0.59	0.01	1.87	2.11	2	2	0	2100	2100	0
7/19/2024 16:08	46204	DANV_T2	2	4	2	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/19/2024 16:08	46206	DANV_T2	20	44	24	0.58	0.59	0.01	2.11	2.11	2	2	0	2100	2100	0
7/19/2024 16:09	46101	MACI_T2	0	1	1	0	0	0	-1.17	-1.28	2	2	0	2400	2400	0
7/19/2024 16:10	24902	WHHA_T1	26	43	17	0.39	0.37	-0.02	1	1.01	0	0	0	0	0	0
7/19/2024 16:10	24901	WHHA_T1	1	2	1	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 16:13	21206	ECAR_T2	1	2	1	7.6	7.7	0.1	0.33	0.31	0	0	0	0	0	0
7/19/2024 16:13	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 16:17	52004	LING_T2	2	2	0	2	2.05	0.05	0	0	0	0	0	0	0	0
7/19/2024 16:17	52002	LING_T2	0	4	4	0	0	0	0.18	0.22	1	1	0	900	900	0
7/19/2024 16:31	40101	HUNT_T2	27	156	129	0.43	0.51	0.08	-0.15	-0.14	0	0	0	0	0	0
7/19/2024 16:32	58401	MORO_T1	0	0	0	0	0	0	-1.69	-1.71	3	3	0	2100	2100	0
7/19/2024 16:34	58401	MORO_T1	0	0	0	0	0	0	-1.69	-1.71	3	3	0	2100	2100	0
7/19/2024 16:36	16202	POFA_T1	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/19/2024 16:36	16204	POFA_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/19/2024 16:36	43301	WATS_T2	0	1	1	0	0.3	0.3	-0.03	-0.07	1	1	0	900	900	0
7/19/2024 16:38	61102	BERK_T5	0	0	0	0	0	0	0.84	0.83	1	1	0	300	300	0
7/19/2024 16:38	42701	AUGU_T1	1	12	11	0.7	0.2	-0.5	0	0	2	2	0	1800	1800	0
7/19/2024 16:39	43301	WATS_T2	0	1	1	0	0.3	0.3	-0.03	-0.07	1	1	0	900	900	0
7/19/2024 16:39	61102	BERK_T5	0	0	0	0	0	0	0.84	0.83	1	1	0	300	300	0
7/19/2024 16:40	43301	WATS_T2	0	1	1	0	0.3	0.3	-0.03	-0.07	1	1	0	900	900	0
7/19/2024 16:40	61102	BERK_T5	0	0	0	0	0	0	2.51	2.5	3	3	0	900	900	0
7/19/2024 16:41	43301	WATS_T2	0	1	1	0	0.3	0.3	-0.03	-0.07	1	1	0	900	900	0
7/19/2024 16:48	64305	LINC_T1	1	1	0	1.4	0.4	-1	0	0	0	0	0	0	0	0
7/19/2024 16:48	64303	LINC_T1	0	0	0	0	0	0	0.23	0.29	0	0	0	0	0	0
7/19/2024 16:49	64303	LINC_T1	0	0	0	0	0	0	0.23	0.29	0	0	0	0	0	0
7/19/2024 16:49	64305	LINC_T1	1	1	0	1.4	0.4	-1	0	0	0	0	0	0	0	0
7/19/2024 16:52	64101	REFR_T1	0	4	4	0	0	0	-0.02	-0.04	0	0	0	0	0	0
7/19/2024 16:54	64101	REFR_T1	0	4	4	0	0	0	-0.02	-0.04	0	0	0	0	0	0
7/19/2024 16:54	61102	BERK_T5	0	0	0	0	0	0	1.67	1.71	2	2	0	600	600	0
7/19/2024 17:01	60803	BUCK_T1	0	1	1	0	0.1	0.1	-0.16	-0.14	1	1	0	600	600	0
7/19/2024 17:09	59102	WALK_T2	62	71	9	0.29	0.47	0.18	0	0	0	0	0	0	0	0
7/19/2024 17:09	59101	WALK_T2	0	0	0	0	0	0	0.32	0.28	0	0	0	0	0	0
7/19/2024 17:12	46101	MACI_T2	0	1	1	0	0.1	0.1	-1.7	-1.73	2	2	0	2400	2400	0
7/19/2024 17:14	40101	HUNT_T2	154	184	30	0.55	0.51	-0.04	-0.09	-0.08	0	0	0	0	0	0
7/19/2024 17:20	48301	ORWI_T1	4	7	3	0.35	0.4	0.05	0.85	1	0	0	0	0	0	0
7/19/2024 17:25	49803	UNIV_T1	0	0	0	0	0	0	-1.57	-1.54	0	0	0	0	0	0
7/19/2024 17:30	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 17:30	42903	MIDD_T2	2	2	0	0.85	0.55	-0.3	0	0	0	0	0	0	0	0
7/19/2024 17:30	42902	MIDD_T2	27	27	0	1.11	0.72	-0.39	-0.07	-0.1	0	0	0	0	0	0
7/19/2024 17:33	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 17:33	55001	NEWP_T1	10	7	-3	0.29	0.2	-0.09	0.31	0.33	0	0	0	0	0	0
7/19/2024 17:33	42903	MIDD_T2	2	2	0	0.85	0.55	-0.3	0	0	0	0	0	0	0	0
7/19/2024 17:33	42902	MIDD_T2	27	27	0	1.11	0.72	-0.39	-0.14	-0.2	0	0	0	0	0	0
7/19/2024 17:34	55001	NEWP_T1	10	7	-3	0.29	0.2	-0.09	0.31	0.33	0	0	0	0	0	0
7/19/2024 17:35	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 17:35	55001	NEWP_T1	10	7	-3	0.29	0.2	-0.09	0.31	0.33	0	0	0	0	0	0
7/19/2024 17:35	42903	MIDD_T2	2	2	0	0.85	0.55	-0.3	0	0	0	0	0	0	0	0
7/19/2024 17:35	42902	MIDD_T2	27	27	0	1.11	0.72	-0.39	-0.21	-0.3	0	0	0	0	0	0
7/19/2024 17:41	56803	BENV_T1	3	3	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/19/2024 17:41	22002	BOHE_T1	0	0	0	0	0	0	0.66	0.71	0	0	0	0	0	0
7/19/2024 17:41	56801	BENV_T1	1	2	1	0.1	0.1	0	-0.02	-0.02	1	1	0	600	600	0
7/19/2024 17:42	56803	BENV_T1	3	3	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/19/2024 17:42	56801	BENV_T1	1	2	1	0.1	0.1	0	-0.04	-0.04	2	2	0	1200	1200	0
7/19/2024 17:43	56803	BENV_T1	3	3	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/19/2024 17:43	56801	BENV_T1	1	2	1	0.1	0.1	0	-0.04	-0.04	2	2	0	1200	1200	0
7/19/2024 17:45	56801	BENV_T1	1	4	3	0.2	0.47	0.27	-0.04	-0.04	2	2	0	1200	1200	0
7/19/2024 17:45	56803	BENV_T1	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/19/2024 17:46	56801	BENV_T1	1	4	3	0.2	0.47	0.27	-0.02	-0.02	1	1	0	600	600	0
7/19/2024 17:46	56803	BENV_T1	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/19/2024 17:50	64101	REFR_T1	3	3	0	0.4	0.43	0.03	-0.01	0	0	0	0	0	0	0
7/19/2024 18:01	63401	HONY_T1	0	0	0	0	0	0	0.35	0.39	1	1	0	600	600	0
7/19/2024 18:16	47101	MARL_T1	17	20	3	1.33	0.94	-0.39	-0.75	-0.79	1	1	0	600	600	0
7/19/2024 18:16	47104	MARL_T1	6	0	-6	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/19/2024 18:18	47401	PENS_T1	2	3	1	0.75	0.87	0.12	0.4	0.42	0	0	0	0	0	0
7/19/2024 18:18	47104	MARL_T1	6	0	-6	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/19/2024 18:18	47101	MARL_T1	17	20	3	1.33	0.94	-0.39	-0.75	-0.79	1	1	0	600	600	0
7/19/2024 18:20	47401	PENS_T1	2	3	1	0.75	0.87	0.12	0.4	0.42	0	0	0	0	0	0
7/19/2024 18:20	46101	MACI_T2	21	1	-20	0.12	0.2	0.08	-1.75	-1.76	2	2	0	2400	2400	0
7/19/2024 18:21	13202	PALM_T2	0	0	0	0	0	0	-1.96	-1.98	4	4	0	3600	3600	0
7/19/2024 18:24	46001	BERW_T1	0	0	0	0	0	0	1.36	1.34	0	0	0	0	0	0
7/19/2024 18:26	46001	BERW_T1	0	0	0	0	0	0	1.36	1.34	0	0	0	0	0	0
7/19/2024 18:32	46101	MACI_T2	1	1	0	0.2	0.2	0	-1.76	-1.74	2	2	0	2400	2400	0
7/19/2024 18:34	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 18:35	66504	SMAN_T2	7	7	0	0.51	0.48	-0.03	0.92	0.85	0	0	0	0	0	0
7/19/2024 18:35	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 18:35	66505	SMAN_T2	4	2	-2	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
7/19/2024 18:36	63402	HONY_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/19/2024 18:36	63403	HONY_T2	0	0	0	0	0	0	-21.61	-21.61	1	0	-1	600	0	-600
7/19/2024 18:38	66505	SMAN_T2	4	2	-2	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
7/19/2024 18:38	66504	SMAN_T2	7	7	0	0.51	0.48	-0.03	0.85	1.03	0	0	0	0	0	0
7/19/2024 18:39	56501	ROCK_T2	14	58	44	0.14	0.2	0.06	-2.13	-2.16	0	0	0	0	0	0
7/19/2024 18:39	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 18:45	63803	HEMP_T1	0	0	0	0	0	0	1.06	1.12	0	0	0	0	0	0
7/19/2024 18:45	63804	HEMP_T1	1	1	0	6.8	6.5	-0.3	0	0	0	0	0	0	0	0
7/19/2024 18:45	64902	MILL_T2	0	0	0	0	0	0	-0.55	-0.52	1	1	0	900	900	0
7/19/2024 18:45	64903	MILL_T2	1	20	19	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/19/2024 18:48	58003	WCAR_T1	1	46	45	1.3	0.36	-0.94	0	0	0	0	0	0	0	0
7/19/2024 18:48	58001	WCAR_T1	3	8	5	0.17	0.54	0.37	0.48	0.33	0	0	0	0	0	0
7/19/2024 18:50	64903	MILL_T2	1	20	19	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/19/2024 18:50	64902	MILL_T2	0	0	0	0	0	0	-0.55	-0.52	1	1	0	900	900	0
7/19/2024 18:52	16605	PONO_T1	0	0	0	0	0	0	-0.99	-0.99	2	2	0	2400	2400	0
7/19/2024 18:59	63305	GREE_T1	5	14	9	0.22	0.29	0.07	0	0	0	0	0	0	0	0
7/19/2024 18:59	63304	GREE_T1	0	9	9	0	0.19	0.19	-2.05	-2.1	0	0	0	0	0	0
7/19/2024 19:00	40802	EXCH_T2	2	0	-2	0.1	0	-0.1	-0.72	-0.04	0	0	0	0	0	0
7/19/2024 19:00	40801	EXCH_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/19/2024 19:03	64902	MILL_T2	0	0	0	0	0	0	-0.52	-0.55	1	1	0	900	900	0
7/19/2024 19:03	64903	MILL_T2	2	23	21	0.1	0.26	0.16	0	0	0	0	0	0	0	0
7/19/2024 19:06	10901	COOP_T2	0	0	0	0	0	0	-0.15	-0.12	1	1	0	1200	1200	0
7/19/2024 19:18	64701	LITI_T1	0	0	0	0	0	0	0.8	0.77	0	0	0	0	0	0
7/19/2024 19:19	52501	PROG_T1	5	2	-3	0.16	0.15	-0.01	-0.67	-0.71	1	1	0	300	300	0
7/19/2024 19:19	52504	PROG_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 19:21	52504	PROG_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 19:21	52501	PROG_T1	5	2	-3	0.16	0.15	-0.01	-0.67	-0.71	1	1	0	300	300	0
7/19/2024 19:22	52504	PROG_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 19:22	52501	PROG_T1	5	2	-3	0.16	0.15	-0.01	-0.71	-0.81	1	1	0	300	300	0
7/19/2024 19:27	61701	ELIZ_T1	1	1	0	4.5	5.1	0.6	0	0	0	0	0	0	0	0
7/19/2024 19:27	61703	ELIZ_T1	0	0	0	0	0	0	-1.32	-1.27	1	1	0	900	900	0
7/19/2024 19:32	12606	MACA_T1	23	23	0	1.17	0.45	-0.72	0	0	0	0	0	0	0	0
7/19/2024 19:32	12601	MACA_T1	0	0	0	0	0	0	1.41	1.41	0	0	0	0	0	0
7/19/2024 19:32	64904	MILL_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
7/19/2024 19:35	63401	HONY_T1	0	0	0	0	0	0	0.33	0.37	1	1	0	600	600	0
7/19/2024 19:38	29402	BELT_T1	12	14	2	1.03	9.3	8.27	0	0	0	0	0	0	0	0
7/19/2024 19:38	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 19:41	54505	ENOL_T2	0	1	1	0	0.2	0.2	-0.61	-0.66	1	1	0	600	600	0
7/19/2024 19:42	51603	DUKE_T1	0	0	0	0	0	0	1.02	0.89	0	0	0	0	0	0
7/19/2024 19:42	10705	CATA_T2	0	0	0	0	0	0	-1.32	-1.4	1	1	0	900	900	0
7/19/2024 19:42	10702	CATA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/19/2024 19:44	52403	GRPA_T2	59	54	-5	1.26	0.76	-0.5	-0.27	-0.27	0	0	0	0	0	0
7/19/2024 19:44	52402	GRPA_T2	2	6	4	0.25	0.52	0.27	0	0	0	0	0	0	0	0
7/19/2024 19:44	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/19/2024 19:45	64701	LITI_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 19:45	64704	LITI_T1	0	0	0	0	0	0	0.08	0.07	1	1	0	600	600	0
7/19/2024 19:51	49804	UNIV_T1	1	2	1	2.8	1.5	-1.3	1.1	1.1	0	0	0	0	0	0
7/19/2024 19:52	43302	WATS_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/19/2024 19:52	43301	WATS_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
7/19/2024 19:52	43304	WATS_T2	5	2	-3	0.34	0	-0.34	-0.48	-0.15	0	0	0	0	0	0
7/19/2024 19:53	65604	QVIL_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/19/2024 19:53	59101	WALK_T2	0	0	0	0	0	0	-0.22	-0.34	1	1	0	600	600	0
7/19/2024 19:53	65601	QVIL_T2	5	5	0	0.18	0.16	-0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/19/2024 19:53	65603	QVIL_T2	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
7/19/2024 19:56	67804	WLAN_T1	1	4	3	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/19/2024 19:56	67801	WLAN_T1	0	0	0	0	0	0	-0.58	0.58	0	0	0	0	0	0
7/19/2024 19:57	61102	BERK_T5	0	0	0	0	0	0	0.59	0.55	1	1	0	300	300	0
7/19/2024 19:58	40502	CRES_T2	3	6	3	0.13	0.22	0.09	-0.61	-0.76	0	0	0	0	0	0
7/19/2024 19:58	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 20:12	56802	BENV_T2	1	7	6	0.3	0.26	-0.04	-0.81	-0.87	0	0	0	0	0	0
7/19/2024 20:14	62102	ELAN_T1	0	0	0	0	0	0	1.59	1.55	0	0	0	0	0	0
7/19/2024 20:22	49804	UNIV_T1	1	1	0	1.5	0	-1.5	1.05	1.01	0	0	0	0	0	0
7/19/2024 20:25	15702	TANN_T2	0	0	0	0	0	0	-0.13	-0.09	0	0	0	0	0	0
7/19/2024 20:25	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
7/19/2024 20:26	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
7/19/2024 20:26	15702	TANN_T2	0	0	0	0	0	0	-0.27	-0.18	0	0	0	0	0	0
7/19/2024 20:27	55002	NEWP_T1	3	2	-1	0.5	0.55	0.05	0.04	0	0	0	0	0	0	0
7/19/2024 20:27	55001	NEWP_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
7/19/2024 20:29	54501	ENOL_T2	0	0	0	0	0	0	-0.03	-0.08	2	2	0	1200	1200	0
7/19/2024 20:29	54505	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/19/2024 20:30	62105	ELAN_T1	0	0	0	0	0	0	1.12	1.08	0	0	0	0	0	0
7/19/2024 20:32	64203	KINZ_T1	0	39	39	0	0.26	0.26	0.07	0.09	1	1	0	600	600	0
7/19/2024 20:32	64204	KINZ_T1	2	24	22	0.6	0.27	-0.33	0	0	0	0	0	0	0	0
7/19/2024 20:32	64202	KINZ_T1	1	12	11	0.1	0.24	0.14	0	0	0	0	0	0	0	0
7/19/2024 20:32	64201	KINZ_T1	3	59	56	0.43	0.34	-0.09	0	0	0	0	0	0	0	0
7/19/2024 20:35	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 20:40	67605	WARW_T1	1	1	0	0.6	0.8	0.2	-0.89	-0.9	0	0	0	0	0	0
7/19/2024 20:41	16302	ALPA_T2	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
7/19/2024 20:42	16302	ALPA_T2	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
7/19/2024 20:43	67603	WARW_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
7/19/2024 20:43	16302	ALPA_T2	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
7/19/2024 20:43	67605	WARW_T1	1	1	0	0.6	0.8	0.2	-0.89	-0.9	0	0	0	0	0	0
7/19/2024 20:46	16302	ALPA_T2	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
7/19/2024 21:14	22602	KIMB_T1	0	0	0	0	0	0	0.13	0.37	0	0	0	0	0	0
7/19/2024 21:28	47001	HUGH_T2	58	121	63	0.63	0.46	-0.17	-1.29	-1.32	1	1	0	900	900	0
7/19/2024 21:30	47001	HUGH_T2	51	145	94	0.68	0.47	-0.21	-2.59	-2.64	2	2	0	1800	1800	0
7/19/2024 21:40	25603	ARRO_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
7/19/2024 22:07	47401	PENS_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
7/19/2024 22:08	41902	REED_T1	0	0	0	0	0	0	0.31	0.29	1	1	0	900	900	0
7/19/2024 22:08	41901	REED_T1	9	0	-9	0.72	0	-0.72	0	0	0	0	0	0	0	0
7/19/2024 22:10	47401	PENS_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
7/19/2024 22:10	41902	REED_T1	0	0	0	0	0	0	0.31	0.29	1	1	0	900	900	0
7/19/2024 22:10	41901	REED_T1	9	0	-9	0.72	0	-0.72	0	0	0	0	0	0	0	0
7/19/2024 22:17	26803	JAFR_T1	0	0	0	0	0	0	-0.09	-0.09	1	1	0	900	900	0
7/19/2024 22:18	63804	HEMP_T1	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
7/19/2024 22:18	63803	HEMP_T1	0	0	0	0	0	0	0.99	0.84	0	0	0	0	0	0
7/19/2024 22:19	60801	BUCK_T1	100	112	12	0.58	0.63	0.05	0	0	0	0	0	0	0	0
7/19/2024 22:19	60803	BUCK_T1	35	35	0	0.78	0.85	0.07	-0.36	-0.34	1	1	0	600	600	0
7/19/2024 22:21	65603	QVIL_T2	139	263	124	0.18	0.23	0.05	0	0	0	0	0	0	0	0
7/19/2024 22:21	65001	NEFF_T2	0	0	0	0	0	0	-0.85	-0.84	1	1	0	1200	1200	0
7/19/2024 22:21	65604	QVIL_T2	3	3	0	0.57	0.77	0.2	0	0	0	0	0	0	0	0
7/19/2024 22:21	65602	QVIL_T2	4	7	3	0.18	0.19	0.01	0	0	0	0	0	0	0	0
7/19/2024 22:21	65601	QVIL_T2	68	161	93	0.24	0.24	0	0.4	0.36	0	0	0	0	0	0
7/19/2024 22:22	67002	STHI_T2	0	0	0	0	0	0	1.06	1.08	0	0	0	0	0	0
7/19/2024 22:22	67605	WARW_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
7/19/2024 22:22	67603	WARW_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
7/19/2024 22:22	67502	WEWI_T2	0	1	1	0	0.1	0.1	-0.99	-1.03	1	1	0	900	900	0
7/19/2024 22:23	17002	RIRO_T2	1	1	0	0.8	0.8	0	0.5	0.5	0	0	0	0	0	0
7/19/2024 22:23	60801	BUCK_T1	100	112	12	0.58	0.63	0.05	-0.04	-0.12	0	0	0	0	0	0
7/19/2024 22:23	60803	BUCK_T1	35	35	0	0.78	0.85	0.07	0	0	0	0	0	0	0	0
7/19/2024 22:24	28704	HAML_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
7/19/2024 22:24	60803	BUCK_T1	35	35	0	0.78	0.85	0.07	0	0	0	0	0	0	0	0
7/19/2024 22:24	60801	BUCK_T1	100	112	12	0.58	0.63	0.05	-0.02	-0.06	0	0	0	0	0	0
7/19/2024 22:25	67503	WEWI_T2	0	0	0	0	0	0	0.39	0.31	0	0	0	0	0	0
7/19/2024 22:25	63402	HONY_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/19/2024 22:25	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/19/2024 22:25	63403	HONY_T2	0	0	0	0	0	0	-21.61	-21.61	0	0	0	0	0	0
7/19/2024 22:25	48302	ORWI_T2	2	2	0	0.7	0.55	-0.15	-0.49	-0.47	0	0	0	0	0	0
7/19/2024 22:26	64204	KINZ_T1	21	16	-5	0.24	0.19	-0.05	0	0	0	0	0	0	0	0
7/19/2024 22:26	64701	LITI_T1	3	0	-3	0.37	0	-0.37	0.56	0.46	0	0	0	0	0	0
7/19/2024 22:26	66504	SMAN_T2	0	0	0	0	0	0	0.68	0.58	0	0	0	0	0	0
7/19/2024 22:26	64902	MILL_T2	0	0	0	0	0	0	-0.24	-0.91	1	1	0	900	900	0
7/19/2024 22:26	64201	KINZ_T1	12	6	-6	0.33	0.4	0.07	0.71	0.72	1	1	0	300	300	0
7/19/2024 22:26	64203	KINZ_T1	10	0	-10	0.12	0	-0.12	0	0	0	0	0	0	0	0
7/19/2024 22:26	64202	KINZ_T1	8	7	-1	0.15	0.16	0.01	0	0	0	0	0	0	0	0
7/19/2024 22:26	60201	ATGL_T2	47	109	62	0.19	0.31	0.12	0.92	0.81	0	0	0	0	0	0
7/19/2024 22:27	67502	WEWI_T2	0	1	1	0	0.1	0.1	-0.99	-1.03	1	1	0	900	900	0
7/19/2024 22:27	58402	MORO_T1	0	0	0	0	0	0	-0.04	-0.03	2	2	0	1500	1500	0
7/19/2024 22:28	64704	LITI_T1	0	0	0	0	0	0	-0.05	-0.08	1	1	0	600	600	0
7/19/2024 22:28	64701	LITI_T1	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
7/19/2024 22:28	56501	ROCK_T2	1	3	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/19/2024 22:28	16902	MECK_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
7/19/2024 22:28	63401	HONY_T1	0	0	0	0	0	0	0.21	0.18	1	1	0	600	600	0
7/19/2024 22:28	63402	HONY_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/19/2024 22:28	56504	ROCK_T2	0	0	0	0	0	0	0	-0.05	0	0	0	0	0	0
7/19/2024 22:28	63501	HEID_TBK1-2	0	1	1	0	0.2	0.2	-0.08	-0.08	1	1	0	900	900	0
7/19/2024 22:28	63403	HONY_T2	0	0	0	0	0	0	-21.61	-21.61	0	0	0	0	0	0
7/19/2024 22:28	61102	BERK_T5	0	0	0	0	0	0	0.06	-0.14	1	1	0	300	300	0
7/19/2024 22:29	61102	BERK_T5	0	0	0	0	0	0	0.06	-0.14	1	1	0	300	300	0
7/19/2024 22:29	66504	SMAN_T2	0	0	0	0	0	0	0.34	0.29	0	0	0	0	0	0
7/19/2024 22:29	52002	LING_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
7/19/2024 22:29	60502	NMAN_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
7/19/2024 22:29	29402	BELT_T1	16	56	40	0.24	0.37	0.13	0	0	0	0	0	0	0	0
7/19/2024 22:29	67502	WEWI_T2	0	1	1	0	0.1	0.1	-0.99	-1.03	1	1	0	900	900	0
7/19/2024 22:29	20401	ASHF_T2	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
7/19/2024 22:29	52004	LING_T2	2	2	0	3.15	3.5	0.35	0	0	0	0	0	0	0	0
7/19/2024 22:30	52004	LING_T2	2	2	0	3.4	3.5	0.1	0	0	0	0	0	0	0	0
7/19/2024 22:30	23202	HIRU_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
7/19/2024 22:30	51603	DUKE_T1	0	0	0	0	0	0	0.19	0.16	0	0	0	0	0	0
7/19/2024 22:30	21206	ECAR_T2	1	1	0	7.8	8.3	0.5	0.04	0.08	0	0	0	0	0	0
7/19/2024 22:30	64902	MILL_T2	0	0	0	0	0	0	-0.24	-0.91	1	1	0	900	900	0
7/19/2024 22:30	21204	ECAR_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/19/2024 22:30	64101	REFR_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
7/19/2024 22:30	61301	EARL_T1	0	0	0	0	0	0	-0.68	-0.68	1	1	0	900	900	0
7/19/2024 22:30	61102	BERK_T5	0	0	0	0	0	0	0.06	-0.14	1	1	0	300	300	0
7/19/2024 22:30	64904	MILL_T1	0	0	0	0	0	0	0.17	0.11	0	0	0	0	0	0
7/19/2024 22:30	58006	WCAR_T2	0	0	0	0	0	0	-0.6	-0.65	0	0	0	0	0	0
7/19/2024 22:30	12701	MACU_T1	0	0	0	0	0	0	-0.99	-0.99	1	1	0	1200	1200	0
7/19/2024 22:30	52002	LING_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
7/19/2024 22:31	25402	LAHA_T2	0	0	0	0	0	0	-0.77	-0.83	0	0	0	0	0	0
7/19/2024 22:31	40802	EXCH_T2	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
7/19/2024 22:31	20601	GRWO_T2	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
7/19/2024 22:31	20603	GRWO_T2	27	57	30	0.19	0.23	0.04	0	0	0	0	0	0	0	0
7/19/2024 22:31	58001	WCAR_T1	4	8	4	0.33	0.64	0.31	0	0	0	0	0	0	0	0
7/19/2024 22:31	64101	REFR_T1	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
7/19/2024 22:31	52004	LING_T2	2	2	0	3.4	3.5	0.1	0	0	0	0	0	0	0	0
7/19/2024 22:31	58003	WCAR_T1	1	38	37	1.3	0.21	-1.09	0.93	0.95	0	0	0	0	0	0
7/19/2024 22:31	52002	LING_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
7/19/2024 22:31	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 22:31	55101	WERT_T1	0	0	0	0	0	0	-3.68	-3.49	6	6	0	4800	4800	0
7/19/2024 22:31	61102	BERK_T5	0	0	0	0	0	0	0.06	-0.14	1	1	0	300	300	0
7/19/2024 22:32	67702	WERN_T2	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
7/19/2024 22:32	46002	BERW_T2	0	0	0	0	0	0	-1.52	-1.66	1	1	0	900	900	0
7/19/2024 22:32	63501	HEID_TBK1-2	0	1	1	0	0.2	0.2	-0.08	-0.08	1	1	0	900	900	0
7/19/2024 22:32	16406	MOPO_T1	0	0	0	0	0	0	-0.32	-0.34	1	1	0	1200	1200	0
7/19/2024 22:32	63402	HONY_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/19/2024 22:32	56801	BENV_T1	5	10	5	0.94	0.81	-0.13	-0.45	-0.48	1	1	0	600	600	0
7/19/2024 22:32	63403	HONY_T2	0	0	0	0	0	0	-21.61	-21.61	0	0	0	0	0	0
7/19/2024 22:32	60801	BUCK_T1	112	57	-55	0.63	0.45	-0.18	0	0	0	0	0	0	0	0
7/19/2024 22:32	13303	ORVI_T1	0	0	0	0	0	0	1.1	1.03	0	0	0	0	0	0
7/19/2024 22:32	56504	ROCK_T2	0	0	0	0	0	0	0.01	-0.11	0	0	0	0	0	0
7/19/2024 22:32	55101	WERT_T1	0	0	0	0	0	0	-1.84	-1.75	3	3	0	2400	2400	0
7/19/2024 22:32	47401	PENS_T1	0	0	0	0	0	0	0.03	-0.03	0	0	0	0	0	0
7/19/2024 22:32	56501	ROCK_T2	1	5	4	0.3	0.16	-0.14	0	0	0	0	0	0	0	0
7/19/2024 22:32	60803	BUCK_T1	35	21	-14	0.85	0.74	-0.11	-0.34	-0.37	1	1	0	600	600	0
7/19/2024 22:33	13202	PALM_T2	0	1	1	0	0	0	-2.21	-2.32	4	4	0	3600	3600	0
7/19/2024 22:33	12701	MACU_T1	0	0	0	0	0	0	-0.99	-0.99	1	1	0	1200	1200	0
7/19/2024 22:33	64902	MILL_T2	0	0	0	0	0	0	-0.24	-0.91	1	1	0	900	900	0
7/19/2024 22:33	56901	SHIL_T2	2	59	57	0.1	0.14	0.04	0.18	0.14	0	0	0	0	0	0
7/19/2024 22:33	56803	BENV_T1	0	0	0	0	0	0	0.38	0.32	0	0	0	0	0	0
7/19/2024 22:33	20403	ASHF_T2	0	0	0	0	0	0	0.5	0.39	0	0	0	0	0	0
7/19/2024 22:33	56801	BENV_T1	5	10	5	0.94	0.81	-0.13	0	0	0	0	0	0	0	0
7/19/2024 22:33	66703	STRA_T1	4	2	-2	0.23	0.1	-0.13	0.14	0.08	0	0	0	0	0	0
7/19/2024 22:33	11104	EGYP_T1	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
7/19/2024 22:33	66902	SHIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
7/19/2024 22:33	66903	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/19/2024 22:33	54505	ENOL_T2	0	1	1	0	0.2	0.2	-1.75	-1.83	2	2	0	1200	1200	0
7/19/2024 22:33	16902	MECK_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
7/19/2024 22:33	67805	WLAN_T1	41	0	-41	0.17	0	-0.17	0	0	0	0	0	0	0	0
7/19/2024 22:33	63305	GREE_T1	15	3	-12	0.34	0.13	-0.21	-1.9	-1.94	1	1	0	900	900	0
7/19/2024 22:33	61102	BERK_T5	0	0	0	0	0	0	0.06	-0.14	1	1	0	300	300	0
7/19/2024 22:33	56501	ROCK_T2	1	5	4	0.3	0.16	-0.14	-0.23	-2.93	0	0	0	0	0	0
7/19/2024 22:33	56802	BENV_T2	0	1	1	0	0.4	0.4	-1.07	-1.09	0	0	0	0	0	0
7/19/2024 22:33	29402	BELT_T1	36	103	67	0.33	0.57	0.24	0	0	0	0	0	0	0	0
7/19/2024 22:33	67801	WLAN_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
7/19/2024 22:33	56504	ROCK_T2	0	0	0	0	0	0	0	-0.05	0	0	0	0	0	0
7/19/2024 22:33	67605	WARW_T1	1	3	2	0.5	0.37	-0.13	-1.15	-1.13	0	0	0	0	0	0
7/19/2024 22:33	67502	WEWI_T2	1	0	-1	0.1	0	-0.1	-0.99	-1.03	1	1	0	900	900	0
7/19/2024 22:34	46802	HEPB_T1	8	0	-8	0.18	0	-0.18	-0.25	-0.32	0	0	0	0	0	0
7/19/2024 22:34	46101	MACI_T2	0	0	0	0	0	0	-0.58	-0.58	1	1	0	1200	1200	0
7/19/2024 22:34	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/19/2024 22:34	63304	GREE_T1	0	0	0	0	0	0	-1.27	-1.27	0	0	0	0	0	0
7/19/2024 22:34	24902	WHHA_T1	3	2	-1	0.8	0.7	-0.1	0.86	0.84	0	0	0	0	0	0
7/19/2024 22:34	55101	WERT_T1	0	0	0	0	0	0	-1.84	-1.75	3	3	0	2400	2400	0
7/19/2024 22:34	29402	BELT_T1	36	103	67	0.33	0.57	0.24	0	0	0	0	0	0	0	0
7/19/2024 22:34	56501	ROCK_T2	1	5	4	0.3	0.16	-0.14	-0.12	-1.46	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/19/2024 22:34	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 22:34	56802	BENV_T2	0	1	1	0	0.4	0.4	-1.07	-1.09	0	0	0	0	0	0
7/19/2024 22:34	64101	REFR_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
7/19/2024 22:34	63401	HONY_T1	0	0	0	0	0	0	0.21	0.18	1	1	0	600	600	0
7/19/2024 22:34	63305	GREE_T1	15	3	-12	0.34	0.13	-0.21	-1.9	-1.94	1	1	0	900	900	0
7/19/2024 22:34	54505	ENOL_T2	0	1	1	0	0.2	0.2	-0.88	-0.92	1	1	0	600	600	0
7/19/2024 22:34	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 22:34	67502	WEWI_T2	1	0	-1	0.1	0	-0.1	-0.99	-1.03	1	1	0	900	900	0
7/19/2024 22:35	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/19/2024 22:35	60803	BUCK_T1	35	21	-14	0.85	0.74	-0.11	0	0	0	0	0	0	0	0
7/19/2024 22:35	59101	WALK_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
7/19/2024 22:35	10901	COOP_T2	0	0	0	0	0	0	-0.42	-0.41	1	1	0	1200	1200	0
7/19/2024 22:35	67805	WLAN_T1	41	0	-41	0.17	0	-0.17	0	0	0	0	0	0	0	0
7/19/2024 22:35	56501	ROCK_T2	1	5	4	0.3	0.16	-0.14	0	0	0	0	0	0	0	0
7/19/2024 22:35	67803	WLAN_T1	0	0	0	0	0	0	-1.07	-1.16	0	0	0	0	0	0
7/19/2024 22:35	25503	MADI_T1	53	133	80	0.2	0.48	0.28	-0.77	-0.81	0	0	0	0	0	0
7/19/2024 22:35	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 22:35	48301	ORWI_T1	2	2	0	3.15	3.35	0.2	0.51	0.47	0	0	0	0	0	0
7/19/2024 22:35	13503	MCMI_T2	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
7/19/2024 22:35	63401	HONY_T1	0	0	0	0	0	0	0.21	0.18	1	1	0	600	600	0
7/19/2024 22:35	42902	MIDD_T2	0	0	0	0	0	0	-1.13	-1.12	1	1	0	600	600	0
7/19/2024 22:35	40502	CRES_T2	9	12	3	0.21	0.18	-0.03	-0.71	-0.74	0	0	0	0	0	0
7/19/2024 22:35	60801	BUCK_T1	112	57	-55	0.63	0.45	-0.18	-0.02	-0.06	0	0	0	0	0	0
7/19/2024 22:35	65205	PRIN_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
7/19/2024 22:35	16401	MOPO_T1	0	0	0	0	0	0	0.29	0.25	0	0	0	0	0	0
7/19/2024 22:35	56504	ROCK_T2	0	0	0	0	0	0	0	-0.05	0	0	0	0	0	0
7/19/2024 22:35	64303	LINC_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
7/19/2024 22:36	52501	PROG_T1	0	0	0	0	0	0	-1.07	-1.13	1	1	0	300	300	0
7/19/2024 22:36	52402	GRPA_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
7/19/2024 22:36	56801	BENV_T1	5	10	5	0.94	0.81	-0.13	-0.9	-0.95	2	2	0	1200	1200	0
7/19/2024 22:36	67203	TEHI_T1	0	0	0	0	0	0	1.84	1.82	1	1	0	900	900	0
7/19/2024 22:36	56802	BENV_T2	0	1	1	0	0.4	0.4	-3.22	-3.26	0	0	0	0	0	0
7/19/2024 22:36	55003	NEWP_T2	0	0	0	0	0	0	-0.72	-0.69	0	0	0	0	0	0
7/19/2024 22:36	61801	EELI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/19/2024 22:36	61102	BERK_T5	0	0	0	0	0	0	-0.14	-0.14	1	1	0	300	300	0
7/19/2024 22:36	61803	EELI_T2	0	0	0	0	0	0	1.07	1	0	0	0	0	0	0
7/19/2024 22:36	20603	GRWO_T2	27	57	30	0.19	0.23	0.04	-0.5	-0.49	1	1	0	900	900	0
7/19/2024 22:36	52401	GRPA_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
7/19/2024 22:36	66502	SMAN_T2	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
7/19/2024 22:36	52404	GRPA_T2	0	1	1	0	0.1	0.1	-0.13	-0.11	0	0	0	0	0	0
7/19/2024 22:36	16902	MECK_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
7/19/2024 22:36	64101	REFR_T1	0	0	0	0	0	0	0.59	0.63	0	0	0	0	0	0
7/19/2024 22:36	55002	NEWP_T1	2	3	1	0.35	0.47	0.12	-0.1	-0.1	0	0	0	0	0	0
7/19/2024 22:36	46206	DANV_T2	0	0	0	0	0	0	0.32	0.33	2	2	0	2100	2100	0
7/19/2024 22:36	52403	GRPA_T2	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/19/2024 22:36	60201	ATGL_T2	109	51	-58	0.31	0.22	-0.09	0.81	0.75	0	0	0	0	0	0
7/19/2024 22:37	52403	GRPA_T2	2	2	0	0.3	0.7	0.4	-0.51	-0.55	0	0	0	0	0	0
7/19/2024 22:37	60801	BUCK_T1	112	57	-55	0.63	0.45	-0.18	-0.06	-0.05	0	0	0	0	0	0
7/19/2024 22:37	22003	BOHE_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
7/19/2024 22:37	60502	NMAN_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
7/19/2024 22:37	24102	EHAZ_T1	1	1	0	0.9	1.6	0.7	0	0	0	0	0	0	0	0
7/19/2024 22:37	22002	BOHE_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
7/19/2024 22:37	24103	EHAZ_T1	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
7/19/2024 22:37	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/19/2024 22:37	11507	FREE_T2	1	1	0	0.2	0.2	0	0.9	1.29	1	0	-1	600	0	-600
7/19/2024 22:37	56501	ROCK_T2	1	5	4	0.3	0.16	-0.14	-1.46	-1.57	0	0	0	0	0	0
7/19/2024 22:37	13503	MCMI_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
7/19/2024 22:37	52402	GRPA_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
7/19/2024 22:37	52401	GRPA_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
7/19/2024 22:37	60803	BUCK_T1	35	21	-14	0.85	0.74	-0.11	0	0	0	0	0	0	0	0
7/19/2024 22:37	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/19/2024 22:37	24105	EHAZ_T1	5	0	-5	6.1	6.2	0.1	0	0	0	0	0	0	0	0
7/19/2024 22:37	61102	BERK_T5	0	0	0	0	0	0	-0.14	-0.14	1	1	0	300	300	0
7/19/2024 22:37	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 22:37	29402	BELT_T1	36	103	67	0.33	0.57	0.24	0	0	0	0	0	0	0	0
7/19/2024 22:37	43402	BENT_T1	3	3	0	0.3	0.3	0	-0.84	-0.86	1	1	0	900	900	0
7/19/2024 22:37	47401	PENS_T1	0	0	0	0	0	0	-0.03	-0.1	0	0	0	0	0	0
7/19/2024 22:37	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/19/2024 22:37	26402	INOR_T1	3	11	8	0.1	0.14	0.04	-1.25	-1.26	0	0	0	0	0	0
7/19/2024 22:37	46101	MACI_T2	0	0	0	0	0	0	-0.58	-0.58	1	1	0	1200	1200	0
7/19/2024 22:37	56802	BENV_T2	0	1	1	0	0.4	0.4	-1.09	-1.12	0	0	0	0	0	0
7/19/2024 22:37	26401	INOR_T1	1	1	0	9.4	10	0.6	0	0	0	0	0	0	0	0
7/19/2024 22:38	66703	STRA_T1	4	2	-2	0.23	0.1	-0.13	0.08	0.08	0	0	0	0	0	0
7/19/2024 22:38	46203	DANV_T2	0	0	0	0	0	0	-0.47	-1.01	0	0	0	0	0	0
7/19/2024 22:38	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 22:38	12801	MICK_T1	0	0	0	0	0	0	-0.88	-0.91	1	1	0	600	600	0
7/19/2024 22:38	46206	DANV_T2	0	0	0	0	0	0	0.32	0.33	2	2	0	2100	2100	0
7/19/2024 22:38	67605	WARW_T1	1	3	2	0.5	0.37	-0.13	-1.13	-1.2	0	0	0	0	0	0
7/19/2024 22:38	43301	WATS_T2	1	1	0	0.3	0	-0.3	-0.41	-0.44	1	1	0	900	900	0
7/19/2024 22:38	67401	WAKE_T2	0	0	0	0	0	0	-0.71	-0.8	0	0	0	0	0	0
7/19/2024 22:38	43302	WATS_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/19/2024 22:38	55002	NEWP_T1	2	3	1	0.35	0.47	0.12	0	0	0	0	0	0	0	0
7/19/2024 22:38	55001	NEWP_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
7/19/2024 22:38	47401	PENS_T1	0	0	0	0	0	0	-0.03	-0.1	0	0	0	0	0	0
7/19/2024 22:38	46001	BERW_T1	1	0	-1	1.5	0	-1.5	0.94	0.92	0	0	0	0	0	0
7/19/2024 22:39	64802	MONE_T2	0	0	0	0	0	0	0.34	0.56	0	0	0	0	0	0
7/19/2024 22:39	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 22:39	20403	ASHF_T2	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
7/19/2024 22:39	56501	ROCK_T2	1	5	4	0.3	0.16	-0.14	-1.46	-1.57	0	0	0	0	0	0
7/19/2024 22:39	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 22:39	61102	BERK_T5	0	0	0	0	0	0	-0.28	-0.28	2	2	0	600	600	0
7/19/2024 22:39	12002	HATF_T1	0	0	0	0	0	0	-0.81	-0.86	1	1	0	1200	1200	0
7/19/2024 22:39	24902	WHHA_T1	3	2	-1	0.8	0.7	-0.1	0.84	0.84	0	0	0	0	0	0
7/19/2024 22:39	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
7/19/2024 22:39	21203	ECAR_T1	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
7/19/2024 22:39	66504	SMAN_T2	0	0	0	0	0	0	0.29	0.18	0	0	0	0	0	0
7/19/2024 22:39	11104	EGYP_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
7/19/2024 22:39	64801	MONE_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/19/2024 22:39	47401	PENS_T1	0	0	0	0	0	0	-0.03	-0.1	0	0	0	0	0	0
7/19/2024 22:40	67402	WAKE_T2	0	0	0	0	0	0	0.61	0.57	0	0	0	0	0	0
7/19/2024 22:40	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/19/2024 22:40	56501	ROCK_T2	1	5	4	0.3	0.16	-0.14	-1.46	-1.57	0	0	0	0	0	0
7/19/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	0.59	0.63	0	0	0	0	0	0
7/19/2024 22:40	42902	MIDD_T2	0	0	0	0	0	0	-1.12	-1.2	1	1	0	600	600	0
7/19/2024 22:40	48301	ORWI_T1	2	2	0	3.15	3.35	0.2	0.47	0.49	0	0	0	0	0	0
7/19/2024 22:40	60502	NMAN_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
7/19/2024 22:40	13503	MCMI_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
7/19/2024 22:40	14204	EALL_T2	0	0	0	0	0	0	-0.33	-0.36	1	1	0	1200	1200	0
7/19/2024 22:40	60803	BUCK_T1	35	21	-14	0.85	0.74	-0.11	-0.37	-0.37	1	1	0	600	600	0
7/19/2024 22:40	60801	BUCK_T1	112	57	-55	0.63	0.45	-0.18	0	0	0	0	0	0	0	0
7/19/2024 22:40	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/19/2024 22:40	24702	FLND_T2	0	0	0	0	0	0	0.13	0.2	1	1	0	1200	1200	0
7/19/2024 22:40	20403	ASHF_T2	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
7/19/2024 22:41	52501	PROG_T1	0	0	0	0	0	0	-1.13	-1.1	1	1	0	300	300	0
7/19/2024 22:41	12606	MACA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/19/2024 22:41	65603	QVIL_T2	263	9	-254	0.23	0.14	-0.09	0.32	0.33	0	0	0	0	0	0
7/19/2024 22:41	56801	BENV_T1	5	10	5	0.94	0.81	-0.13	-0.48	-0.5	1	1	0	600	600	0
7/19/2024 22:41	64101	REFR_T1	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
7/19/2024 22:41	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 22:41	65604	QVIL_T2	3	3	0	0.77	0.23	-0.54	0	0	0	0	0	0	0	0
7/19/2024 22:41	12601	MACA_T1	0	0	0	0	0	0	1.07	1.04	0	0	0	0	0	0
7/19/2024 22:41	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 22:41	20403	ASHF_T2	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
7/19/2024 22:41	20603	GRWO_T2	27	57	30	0.19	0.23	0.04	0	0	0	0	0	0	0	0
7/19/2024 22:41	54505	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/19/2024 22:41	20601	GRWO_T2	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
7/19/2024 22:41	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 22:41	46001	BERW_T1	1	0	-1	1.5	0	-1.5	0.94	0.92	0	0	0	0	0	0
7/19/2024 22:41	12701	MACU_T1	0	0	0	0	0	0	-1.98	-2.06	2	2	0	2400	2400	0
7/19/2024 22:41	65602	QVIL_T2	7	0	-7	0.19	0	-0.19	0	0	0	0	0	0	0	0
7/19/2024 22:41	11104	EGYP_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
7/19/2024 22:41	65601	QVIL_T2	161	5	-156	0.24	0.18	-0.06	0	0	0	0	0	0	0	0
7/19/2024 22:41	54504	ENOL_T2	0	0	0	0	0	0	-0.83	-0.82	1	1	0	600	600	0
7/19/2024 22:41	24902	WHHA_T1	3	2	-1	0.8	0.7	-0.1	0.84	0.84	0	0	0	0	0	0
7/19/2024 22:42	62102	ELAN_T1	0	0	0	0	0	0	1.4	1.21	0	0	0	0	0	0
7/19/2024 22:42	65603	QVIL_T2	263	9	-254	0.23	0.14	-0.09	0	0	0	0	0	0	0	0
7/19/2024 22:42	56802	BENV_T2	0	1	1	0	0.4	0.4	-2.17	-2.23	0	0	0	0	0	0
7/19/2024 22:42	65602	QVIL_T2	7	0	-7	0.19	0	-0.19	0	0	0	0	0	0	0	0
7/19/2024 22:42	65601	QVIL_T2	161	5	-156	0.24	0.18	-0.06	0	0	0	0	0	0	0	0
7/19/2024 22:42	67605	WARW_T1	1	3	2	0.5	0.37	-0.13	-1.13	-1.2	0	0	0	0	0	0
7/19/2024 22:42	56501	ROCK_T2	1	5	4	0.3	0.16	-0.14	-1.46	-1.57	0	0	0	0	0	0
7/19/2024 22:42	55001	NEWP_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
7/19/2024 22:42	64101	REFR_T1	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
7/19/2024 22:42	65604	QVIL_T2	3	3	0	0.77	0.23	-0.54	0.61	0.61	0	0	0	0	0	0
7/19/2024 22:42	55002	NEWP_T1	2	3	1	0.35	0.47	0.12	0	0	0	0	0	0	0	0
7/19/2024 22:42	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 22:42	55101	WERT_T1	0	0	0	0	0	0	-1.75	-1.82	3	3	0	2400	2400	0
7/19/2024 22:43	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/19/2024 22:43	52004	LING_T2	2	2	0	3.4	3.5	0.1	0	0.32	0	0	0	0	0	0
7/19/2024 22:43	67201	TEHI_T1	0	0	0	0	0	0	-0.01	-0.02	1	1	0	600	600	0
7/19/2024 22:43	16605	PONO_T1	0	0	0	0	0	0	-0.46	-0.57	1	1	0	1200	1200	0
7/19/2024 22:43	46803	HEPB_T2	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
7/19/2024 22:43	59101	WALK_T2	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
7/19/2024 22:43	42902	MIDD_T2	0	0	0	0	0	0	-1.12	-1.2	1	1	0	600	600	0
7/19/2024 22:43	45802	HEGI_T2	12	35	23	0.38	0.65	0.27	0.42	0.29	0	0	0	0	0	0
7/19/2024 22:43	46801	HEPB_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/19/2024 22:43	56501	ROCK_T2	1	5	4	0.3	0.16	-0.14	-1.46	-1.57	0	0	0	0	0	0
7/19/2024 22:43	46101	MACI_T2	0	0	0	0	0	0	-0.58	-0.58	1	1	0	1200	1200	0
7/19/2024 22:43	44801	EDAN_T2	19	38	19	0.23	0.28	0.05	-2.89	-2.95	0	0	0	0	0	0
7/19/2024 22:43	43302	WATS_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/19/2024 22:43	43301	WATS_T2	1	1	0	0.3	0	-0.3	-0.82	-0.88	2	2	0	1800	1800	0
7/19/2024 22:43	55101	WERT_T1	0	0	0	0	0	0	-1.75	-1.82	3	3	0	2400	2400	0
7/19/2024 22:44	56501	ROCK_T2	1	5	4	0.3	0.16	-0.14	-1.46	-1.57	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/19/2024 22:44	45702	LIND_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
7/19/2024 22:44	13503	MCMI_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
7/19/2024 22:44	61301	EARL_T1	0	0	0	0	0	0	-0.68	-0.71	1	1	0	900	900	0
7/19/2024 22:44	52002	LING_T2	0	0	0	0	0	0	0.53	0.45	0	0	0	0	0	0
7/19/2024 22:44	51401	LYKE_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
7/19/2024 22:44	55001	NEWP_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
7/19/2024 22:44	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 22:44	52004	LING_T2	2	2	0	3.4	3.5	0.1	0	0	0	0	0	0	0	0
7/19/2024 22:44	47401	PENS_T1	0	0	0	0	0	0	-0.03	-0.1	0	0	0	0	0	0
7/19/2024 22:44	43402	BENT_T1	3	3	0	0.3	0.3	0	-0.84	-0.86	1	1	0	900	900	0
7/19/2024 22:44	58402	MORO_T1	0	0	0	0	0	0	-0.03	-0.05	2	2	0	1500	1500	0
7/19/2024 22:44	20403	ASHF_T2	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
7/19/2024 22:44	43301	WATS_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/19/2024 22:44	55002	NEWP_T1	2	3	1	0.35	0.47	0.12	0	0	0	0	0	0	0	0
7/19/2024 22:44	43302	WATS_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/19/2024 22:45	52404	GRPA_T2	0	1	1	0	0.4	0.4	-0.11	-0.13	0	0	0	0	0	0
7/19/2024 22:45	59102	WALK_T2	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
7/19/2024 22:45	49803	UNIV_T1	0	0	0	0	0	0	-0.87	-0.93	0	0	0	0	0	0
7/19/2024 22:45	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/19/2024 22:45	43202	MVIL_T2	58	53	-5	0.5	0.42	-0.08	-0.64	-0.65	0	0	0	0	0	0
7/19/2024 22:45	52401	GRPA_T2	1	2	1	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
7/19/2024 22:45	43301	WATS_T2	1	1	0	1	0.5	-0.5	-0.41	-0.44	1	1	0	900	900	0
7/19/2024 22:45	56802	BENV_T2	1	34	33	0.3	0.13	-0.17	-2.17	-2.23	0	0	0	0	0	0
7/19/2024 22:45	56501	ROCK_T2	2	45	43	0.2	0.16	-0.04	-1.46	-1.57	0	0	0	0	0	0
7/19/2024 22:45	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
7/19/2024 22:45	52403	GRPA_T2	2	2	0	0.7	0.65	-0.05	-0.51	-0.55	0	0	0	0	0	0
7/19/2024 22:45	43304	WATS_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
7/19/2024 22:45	24102	EHAZ_T1	1	3	2	1.6	3.5	1.9	0	0	0	0	0	0	0	0
7/19/2024 22:45	20601	GRWO_T2	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
7/19/2024 22:45	45702	LIND_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
7/19/2024 22:45	52402	GRPA_T2	2	4	2	0.15	0.35	0.2	0	0	0	0	0	0	0	0
7/19/2024 22:45	64303	LINC_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
7/19/2024 22:45	20603	GRWO_T2	56	98	42	0.22	0.27	0.05	-0.49	-0.52	1	1	0	900	900	0
7/19/2024 22:45	67402	WAKE_T2	0	0	0	0	0	0	0.61	0.57	0	0	0	0	0	0
7/19/2024 22:45	24104	EHAZ_T1	0	0	0	0	0	0	-1.8	-0.45	1	1	0	1200	1200	0
7/19/2024 22:45	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/19/2024 22:45	24105	EHAZ_T1	5	5	0	6.2	6.48	0.28	0	0	0	0	0	0	0	0
7/19/2024 22:45	64305	LINC_T1	0	0	0	0	0	0	-0.19	-0.28	0	0	0	0	0	0
7/19/2024 22:45	52501	PROG_T1	0	0	0	0	0	0	-1.13	-1.1	1	1	0	300	300	0
7/19/2024 22:46	52403	GRPA_T2	2	2	0	0.7	0.65	-0.05	-0.51	-0.55	0	0	0	0	0	0
7/19/2024 22:46	52002	LING_T2	0	0	0	0	0	0	1.06	0.91	0	0	0	0	0	0
7/19/2024 22:46	58001	WCAR_T1	4	8	4	0.8	0.64	-0.16	0	0	0	0	0	0	0	0
7/19/2024 22:46	10705	CATA_T2	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
7/19/2024 22:46	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 22:46	56501	ROCK_T2	2	45	43	0.2	0.16	-0.04	-1.46	-1.57	0	0	0	0	0	0
7/19/2024 22:46	40502	CRES_T2	12	10	-2	0.18	0.16	-0.02	-0.74	-0.14	0	0	0	0	0	0
7/19/2024 22:46	52401	GRPA_T2	1	2	1	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
7/19/2024 22:46	55002	NEWP_T1	2	4	2	0.45	0.6	0.15	-0.1	-0.14	0	0	0	0	0	0
7/19/2024 22:46	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 22:46	47101	MARL_T1	0	0	0	0	0	0	-0.59	-0.62	0	0	0	0	0	0
7/19/2024 22:46	52402	GRPA_T2	2	4	2	0.15	0.35	0.2	0	0	0	0	0	0	0	0
7/19/2024 22:46	52004	LING_T2	2	2	0	3.5	3.45	-0.05	0	0	0	0	0	0	0	0
7/19/2024 22:46	58003	WCAR_T1	2	38	36	0.85	0.22	-0.63	0.95	0.92	0	0	0	0	0	0
7/19/2024 22:46	52404	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/19/2024 22:46	48301	ORWI_T1	2	2	0	3.35	3.65	0.3	0.47	0.49	0	0	0	0	0	0
7/19/2024 22:47	43301	WATS_T2	1	1	0	1	0.5	-0.5	-0.41	-0.44	1	1	0	900	900	0
7/19/2024 22:47	56504	ROCK_T2	0	0	0	0	0	0	-0.11	-0.17	0	0	0	0	0	0
7/19/2024 22:47	45802	HEGI_T2	7	43	36	0.24	1.18	0.94	0.42	0.29	0	0	0	0	0	0
7/19/2024 22:47	42902	MIDD_T2	0	0	0	0	0	0	-1.12	-1.2	1	1	0	600	600	0
7/19/2024 22:47	67604	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/19/2024 22:47	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/19/2024 22:47	42903	MIDD_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 22:47	52402	GRPA_T2	2	4	2	0.15	0.35	0.2	0	0	0	0	0	0	0	0
7/19/2024 22:47	52403	GRPA_T2	2	2	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
7/19/2024 22:47	52404	GRPA_T2	0	1	1	0	0.4	0.4	-0.11	-0.13	0	0	0	0	0	0
7/19/2024 22:47	56501	ROCK_T2	2	45	43	0.2	0.16	-0.04	-1.46	-1.57	0	0	0	0	0	0
7/19/2024 22:47	66504	SMAN_T2	0	0	0	0	0	0	0.29	0.18	0	0	0	0	0	0
7/19/2024 22:47	67605	WARW_T1	1	3	2	0.7	0.47	-0.23	-1.13	-1.2	0	0	0	0	0	0
7/19/2024 22:47	52401	GRPA_T2	1	2	1	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
7/19/2024 22:47	46004	BERW_T2	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
7/19/2024 22:47	64101	REFR_T1	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
7/19/2024 22:47	44801	EDAN_T2	38	12	-26	0.28	0.17	-0.11	-1.45	-1.48	0	0	0	0	0	0
7/19/2024 22:48	56802	BENV_T2	1	34	33	0.3	0.13	-0.17	-2.17	-2.23	0	0	0	0	0	0
7/19/2024 22:48	43202	MVIL_T2	58	53	-5	0.5	0.42	-0.08	-0.64	-0.65	0	0	0	0	0	0
7/19/2024 22:48	42902	MIDD_T2	0	0	0	0	0	0	-1.12	-1.2	1	1	0	600	600	0
7/19/2024 22:48	52402	GRPA_T2	2	4	2	0.15	0.35	0.2	-0.44	-0.45	0	0	0	0	0	0
7/19/2024 22:48	52401	GRPA_T2	1	2	1	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
7/19/2024 22:48	52404	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/19/2024 22:48	52403	GRPA_T2	2	2	0	0.7	0.65	-0.05	-0.51	-0.55	0	0	0	0	0	0
7/19/2024 22:48	42903	MIDD_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 22:49	55001	NEWP_T1	0	1	1	0	0	0	-0.27	-0.27	0	0	0	0	0	0
7/19/2024 22:49	46801	HEPB_T2	0	1	1	0	0.1	0.1	0.73	0.71	0	0	0	0	0	0
7/19/2024 22:49	56801	BENV_T1	8	10	2	0.85	1.13	0.28	-1.43	-1.49	3	3	0	1800	1800	0
7/19/2024 22:49	49804	UNIV_T1	0	1	1	0	0.1	0.1	0.78	0.74	0	0	0	0	0	0
7/19/2024 22:49	52004	LING_T2	2	2	0	3.5	3.45	-0.05	0	0	0	0	0	0	0	0
7/19/2024 22:49	56802	BENV_T2	1	34	33	0.3	0.13	-0.17	-1.09	-1.12	0	0	0	0	0	0
7/19/2024 22:49	52002	LING_T2	0	0	0	0	0	0	0.53	0.45	0	0	0	0	0	0
7/19/2024 22:49	56501	ROCK_T2	2	45	43	0.2	0.16	-0.04	-1.46	-1.57	0	0	0	0	0	0
7/19/2024 22:49	55002	NEWP_T1	2	4	2	0.45	0.6	0.15	-0.1	-0.14	0	0	0	0	0	0
7/19/2024 22:49	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
7/19/2024 22:50	59001	MIFF_T1	0	5	5	0	0.26	0.26	0	0	0	0	0	0	0	0
7/19/2024 22:50	41902	REED_T1	0	0	0	0	0	0	0.23	0.27	1	1	0	900	900	0
7/19/2024 22:50	56501	ROCK_T2	2	45	43	0.2	0.16	-0.04	-1.46	-1.57	0	0	0	0	0	0
7/19/2024 22:50	43304	WATS_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
7/19/2024 22:50	52404	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/19/2024 22:50	56801	BENV_T1	8	10	2	0.85	1.13	0.28	-0.95	-0.99	2	2	0	1200	1200	0
7/19/2024 22:50	52403	GRPA_T2	2	2	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
7/19/2024 22:50	52402	GRPA_T2	2	4	2	0.15	0.35	0.2	-0.44	-0.45	0	0	0	0	0	0
7/19/2024 22:50	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/19/2024 22:50	42903	MIDD_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/19/2024 22:50	56802	BENV_T2	1	34	33	0.3	0.13	-0.17	-2.17	-2.23	0	0	0	0	0	0
7/19/2024 22:50	59003	MIFF_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
7/19/2024 22:50	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/19/2024 22:50	42902	MIDD_T2	0	0	0	0	0	0	-2.24	-2.41	2	2	0	1200	1200	0
7/19/2024 22:50	43301	WATS_T2	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
7/19/2024 22:50	52401	GRPA_T2	1	2	1	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
7/19/2024 22:51	52004	LING_T2	2	2	0	3.5	3.45	-0.05	0	0	0	0	0	0	0	0
7/19/2024 22:51	44301	BEAV_T2	0	0	0	0	0	0	-0.73	-0.74	1	1	0	600	600	0
7/19/2024 22:51	55101	WERT_T1	0	0	0	0	0	0	-1.75	-1.82	3	3	0	2400	2400	0
7/19/2024 22:51	47401	PENS_T1	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
7/19/2024 22:51	56801	BENV_T1	8	10	2	0.85	1.13	0.28	-0.48	-0.5	1	1	0	600	600	0
7/19/2024 22:51	52002	LING_T2	0	0	0	0	0	0	0.53	0.45	0	0	0	0	0	0
7/19/2024 22:51	59101	WALK_T2	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
7/19/2024 22:52	43301	WATS_T2	1	1	0	1	0.5	-0.5	-0.44	-0.48	1	1	0	900	900	0
7/19/2024 22:52	40101	HUNT_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
7/19/2024 22:52	43402	BENT_T1	3	0	-3	0.3	0	-0.3	-0.86	-0.88	1	1	0	900	900	0
7/19/2024 22:52	56801	BENV_T1	8	10	2	0.85	1.13	0.28	-0.5	-0.52	1	1	0	600	600	0
7/19/2024 22:52	47401	PENS_T1	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
7/19/2024 22:52	43202	MVIL_T2	58	53	-5	0.5	0.42	-0.08	-0.65	-0.67	0	0	0	0	0	0
7/19/2024 22:52	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/19/2024 22:53	47401	PENS_T1	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
7/19/2024 22:53	56802	BENV_T2	1	34	33	0.3	0.13	-0.17	-1.12	-1.07	0	0	0	0	0	0
7/19/2024 22:53	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/19/2024 22:53	41902	REED_T1	0	0	0	0	0	0	0.27	0.3	1	1	0	900	900	0
7/19/2024 22:54	49804	UNIV_T1	0	1	1	0	0.1	0.1	0.74	0.69	0	0	0	0	0	0
7/19/2024 23:22	47101	MARL_T1	0	0	0	0	0	0	-0.67	-0.7	0	0	0	0	0	0
7/19/2024 23:25	52501	PROG_T1	0	2	2	0	0.1	0.1	-1.12	-1.12	1	1	0	300	300	0
7/20/2024 0:54	58001	WCAR_T1	4	4	0	0.93	1.03	0.1	-0.05	0	0	0	0	0	0	0
7/20/2024 0:54	58003	WCAR_T1	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
7/20/2024 3:23	59202	THOM_T1	24	0	-24	0.17	0	-0.17	0	0	0	0	0	0	0	0
7/20/2024 3:23	59201	THOM_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/20/2024 5:47	28403	HART_T2	0	0	0	0	0	0	-0.99	-1.01	1	1	0	900	900	0
7/20/2024 6:50	13501	MCMI_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
7/20/2024 7:01	12006	HATF_T1	0	0	0	0	0	0	0.41	0.48	0	0	0	0	0	0
7/20/2024 7:01	22701	MINO_T1	0	0	0	0	0	0	-0.9	-0.87	1	1	0	600	600	0
7/20/2024 7:07	40502	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 7:07	40502	CRES_T2	5	3	-2	0.2	0.13	-0.07	-0.46	-0.41	0	0	0	0	0	0
7/20/2024 7:08	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 7:08	40502	CRES_T2	5	3	-2	0.2	0.13	-0.07	-0.92	-0.83	0	0	0	0	0	0
7/20/2024 7:09	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 7:09	40502	CRES_T2	5	3	-2	0.2	0.13	-0.07	-0.46	-0.41	0	0	0	0	0	0
7/20/2024 7:10	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 7:10	40502	CRES_T2	5	3	-2	0.2	0.13	-0.07	-0.46	-0.41	0	0	0	0	0	0
7/20/2024 7:11	40505	CRES_T1	4	3	-1	3.63	5	1.37	0	0	0	0	0	0	0	0
7/20/2024 7:11	40504	CRES_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
7/20/2024 7:12	17401	FOHI_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
7/20/2024 7:15	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 7:15	40502	CRES_T2	3	2	-1	0.13	0.15	0.02	-0.46	-0.41	0	0	0	0	0	0
7/20/2024 7:16	17401	FOHI_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
7/20/2024 7:22	44902	SCOT_T2	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
7/20/2024 7:23	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 7:23	24902	WHHA_T1	2	5	3	0.95	1.1	0.15	0.77	0.78	0	0	0	0	0	0
7/20/2024 7:29	40101	HUNT_T2	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
7/20/2024 7:36	14601	SWHI_T1	0	0	0	0	0	0	-2.38	-2.33	0	0	0	0	0	0
7/20/2024 7:37	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 7:38	24902	WHHA_T1	3	3	0	1	0.5	-0.5	0.78	0.81	0	0	0	0	0	0
7/20/2024 7:38	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 7:39	14601	SWHI_T1	0	0	0	0	0	0	-2.38	-2.33	0	0	0	0	0	0
7/20/2024 7:46	58402	MORO_T1	1	0	-1	1	0	-1	-0.14	-0.2	2	2	0	1500	1500	0
7/20/2024 7:47	25402	LAHA_T2	0	0	0	0	0	0	-0.79	-0.68	0	0	0	0	0	0
7/20/2024 7:48	56501	ROCK_T2	1	2	1	0.1	0.5	0.4	-0.49	-0.45	0	0	0	0	0	0
7/20/2024 7:51	56501	ROCK_T2	1	2	1	0.1	0.5	0.4	-0.49	-0.45	0	0	0	0	0	0
7/20/2024 7:53	56501	ROCK_T2	1	2	1	0.1	0.5	0.4	-0.45	-0.45	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/20/2024 7:54	40302	TAMA_T3	0	0	0	0	0	0	-1.25	-1.22	1	1	0	1200	1200	0
7/20/2024 7:54	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 7:55	11205	ELHE_T1	0	0	0	0	0	0	-0.61	-0.64	1	1	0	1200	1200	0
7/20/2024 7:59	25402	LAHA_T2	0	0	0	0	0	0	-0.68	-0.74	0	0	0	0	0	0
7/20/2024 8:27	52404	GRPA_T2	0	1	1	0	0	0	0.5	0.53	0	0	0	0	0	0
7/20/2024 8:27	52403	GRPA_T2	23	21	-2	0.77	0.54	-0.23	0	0	0	0	0	0	0	0
7/20/2024 8:31	52404	GRPA_T2	0	1	1	0	0	0	0.5	0.53	0	0	0	0	0	0
7/20/2024 8:31	52402	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 8:31	52403	GRPA_T2	21	9	-12	0.6	0.65	0.05	0	0	0	0	0	0	0	0
7/20/2024 8:35	59101	WALK_T2	0	1	1	0	0	0	-0.24	-0.22	0	0	0	0	0	0
7/20/2024 8:35	59102	WALK_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/20/2024 8:36	58006	WCAR_T2	0	0	0	0	0	0	0.45	-0.77	0	0	0	0	0	0
7/20/2024 8:39	44301	BEAV_T2	0	0	0	0	0	0	-1.54	-1.44	1	1	0	600	600	0
7/20/2024 8:48	44201	POIN_T1	0	0	0	0	0	0	-1.77	-1.91	2	2	0	2100	2100	0
7/20/2024 8:52	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 8:52	20403	ASHF_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
7/20/2024 8:55	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 8:55	20403	ASHF_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
7/20/2024 8:57	61506	EPET_T2	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
7/20/2024 8:57	61501	EPET_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
7/20/2024 8:57	63304	GREE_T1	0	0	0	0	0	0	-1.42	-1.48	0	0	0	0	0	0
7/20/2024 8:59	63304	GREE_T1	0	0	0	0	0	0	-1.42	-1.48	0	0	0	0	0	0
7/20/2024 9:01	13503	MCMI_T2	0	6	6	0	0.2	0.2	-0.28	-0.86	0	0	0	0	0	0
7/20/2024 9:03	47001	HUGH_T2	3	3	0	8.5	8.5	0	-3.14	-3.17	2	2	0	1800	1800	0
7/20/2024 9:04	60201	ATGL_T2	0	0	0	0	0	0	0.62	0.55	0	0	0	0	0	0
7/20/2024 9:16	63501	HEID_TBK1-2	1	2	1	0.2	0.1	-0.1	-0.1	-0.06	1	1	0	900	900	0
7/20/2024 9:16	13503	MCMI_T2	5	3	-2	0.22	0.37	0.15	-0.86	-0.83	0	0	0	0	0	0
7/20/2024 9:20	60201	ATGL_T2	0	0	0	0	0	0	0.55	0.66	0	0	0	0	0	0
7/20/2024 9:20	13503	MCMI_T2	5	3	-2	0.22	0.37	0.15	-0.86	-0.83	0	0	0	0	0	0
7/20/2024 9:22	64101	REFR_T1	0	0	0	0	0	0	0.86	0.47	0	0	0	0	0	0
7/20/2024 9:38	29402	BELT_T1	57	64	7	0.43	0.44	0.01	0	0	0	0	0	0	0	0
7/20/2024 9:39	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 9:41	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/20/2024 9:41	29402	BELT_T1	57	64	7	0.43	0.44	0.01	0	0	0	0	0	0	0	0
7/20/2024 9:47	26704	HEML_T2	0	0	0	0	0	0	-0.67	-0.64	1	1	0	1200	1200	0
7/20/2024 9:49	13501	MCMI_T1	0	0	0	0	0	0	0.25	0.29	0	0	0	0	0	0
7/20/2024 9:53	56803	BENV_T1	1	1	0	3	0	-3	0	0	0	0	0	0	0	0
7/20/2024 9:53	56801	BENV_T1	1	0	-1	0.1	0	-0.1	-0.54	-0.48	1	1	0	600	600	0
7/20/2024 9:56	56801	BENV_T1	1	0	-1	0.1	0	-0.1	-0.54	-0.48	1	1	0	600	600	0
7/20/2024 9:56	56803	BENV_T1	1	1	0	3	0	-3	0	0	0	0	0	0	0	0
7/20/2024 9:57	56803	BENV_T1	1	1	0	3	0	-3	0	0	0	0	0	0	0	0
7/20/2024 9:57	56801	BENV_T1	1	0	-1	0.1	0	-0.1	-0.54	-0.48	1	1	0	600	600	0
7/20/2024 10:00	54504	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 10:00	54501	ENOL_T2	0	0	0	0	0	0	-0.24	-0.25	1	1	0	600	600	0
7/20/2024 10:00	40302	TAMA_T3	0	0	0	0	0	0	-1.13	-1.15	1	1	0	1200	1200	0
7/20/2024 10:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 10:00	40505	CRES_T1	3	3	0	4.2	3.53	-0.67	0.53	0.57	0	0	0	0	0	0
7/20/2024 10:00	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 10:01	59003	MIFF_T1	0	0	0	0	0	0	-0.65	-0.69	0	0	0	0	0	0
7/20/2024 10:06	67602	WARW_T2	0	0	0	0	0	0	1.66	1.78	4	4	0	3000	3000	0
7/20/2024 10:06	67503	WEWI_T2	0	0	0	0	0	0	-0.45	-0.4	0	0	0	0	0	0
7/20/2024 10:07	60201	ATGL_T2	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
7/20/2024 10:07	67602	WARW_T2	0	0	0	0	0	0	0.83	0.89	2	2	0	1500	1500	0
7/20/2024 10:08	29402	BELT_T1	14	40	26	0.87	0.55	-0.32	0	0	0	0	0	0	0	0
7/20/2024 10:08	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/20/2024 10:09	20403	ASHF_T2	0	1	1	0	0	0	0.43	0.43	0	0	0	0	0	0
7/20/2024 10:09	24902	WHHA_T1	3	9	6	0.8	0.75	-0.05	0.87	0.85	0	0	0	0	0	0
7/20/2024 10:09	20401	ASHF_T2	2	1	-1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/20/2024 10:09	60803	BUCK_T1	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
7/20/2024 10:09	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 10:09	60801	BUCK_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
7/20/2024 10:09	67602	WARW_T2	0	0	0	0	0	0	0.83	0.89	2	2	0	1500	1500	0
7/20/2024 10:10	24902	WHHA_T1	3	9	6	0.8	0.75	-0.05	0.87	0.85	0	0	0	0	0	0
7/20/2024 10:10	67602	WARW_T2	0	0	0	0	0	0	0.83	0.89	2	2	0	1500	1500	0
7/20/2024 10:10	60801	BUCK_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
7/20/2024 10:10	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 10:10	60803	BUCK_T1	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
7/20/2024 10:11	46206	DANV_T2	9	9	0	0.79	1.07	0.28	0	0	0	0	0	0	0	0
7/20/2024 10:11	20403	ASHF_T2	0	1	1	0	0	0	0.43	0.43	0	0	0	0	0	0
7/20/2024 10:11	20401	ASHF_T2	2	1	-1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/20/2024 10:11	60801	BUCK_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
7/20/2024 10:11	60803	BUCK_T1	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
7/20/2024 10:11	46203	DANV_T2	0	0	0	0	0	0	-3.57	-3.46	0	0	0	0	0	0
7/20/2024 10:13	46203	DANV_T2	0	0	0	0	0	0	-1.78	-1.73	0	0	0	0	0	0
7/20/2024 10:13	46206	DANV_T2	9	9	0	0.79	1.07	0.28	0	0	0	0	0	0	0	0
7/20/2024 10:14	52403	GRPA_T2	1	2	1	0.1	0	-0.1	-0.6	-0.48	0	0	0	0	0	0
7/20/2024 10:14	52402	GRPA_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
7/20/2024 10:14	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 10:15	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 10:16	64305	LINC_T1	1	1	0	0.7	0	-0.7	-0.09	-0.07	0	0	0	0	0	0
7/20/2024 10:17	40101	HUNT_T2	4	10	6	0.55	0.63	0.08	-0.36	-0.31	0	0	0	0	0	0
7/20/2024 10:19	25503	MADI_T1	53	20	-33	0.17	0.16	-0.01	-0.68	-0.68	0	0	0	0	0	0
7/20/2024 10:19	13503	MCMI_T2	3	2	-1	0.3	0.45	0.15	-0.81	-0.79	0	0	0	0	0	0
7/20/2024 10:20	40101	HUNT_T2	4	10	6	0.55	0.63	0.08	-0.36	-0.31	0	0	0	0	0	0
7/20/2024 10:20	13503	MCMI_T2	3	2	-1	0.3	0.45	0.15	-0.81	-0.79	0	0	0	0	0	0
7/20/2024 10:20	56501	ROCK_T2	1	1	0	1.1	0.6	-0.5	-1.45	-1.43	0	0	0	0	0	0
7/20/2024 10:21	60502	NMAN_T2	0	0	0	0	0	0	-0.08	-0.04	0	0	0	0	0	0
7/20/2024 10:21	56501	ROCK_T2	1	1	0	1.1	0.6	-0.5	-1.45	-1.43	0	0	0	0	0	0
7/20/2024 10:21	64101	REFR_T1	0	3	3	0	0	0	0.36	0.36	0	0	0	0	0	0
7/20/2024 10:22	21203	ECAR_T1	0	1	1	0	0.1	0.1	-0.34	-0.32	0	0	0	0	0	0
7/20/2024 10:23	56501	ROCK_T2	1	1	0	1.1	0.6	-0.5	-1.43	-1.4	0	0	0	0	0	0
7/20/2024 10:25	46206	DANV_T2	4	8	4	0.85	0.95	0.1	0.54	0.54	2	2	0	2100	2100	0
7/20/2024 10:25	29402	BELT_T1	31	38	7	0.61	0.56	-0.05	0	0	0	0	0	0	0	0
7/20/2024 10:27	46206	DANV_T2	4	8	4	0.85	0.95	0.1	0.54	0.54	2	2	0	2100	2100	0
7/20/2024 10:34	64101	REFR_T1	0	3	3	0	0	0	0.73	0.72	0	0	0	0	0	0
7/20/2024 10:34	13503	MCMI_T2	1	2	1	0.1	0.45	0.35	-0.79	-0.78	0	0	0	0	0	0
7/20/2024 10:35	64101	REFR_T1	0	3	3	0	0	0	0.73	0.72	0	0	0	0	0	0
7/20/2024 10:35	13503	MCMI_T2	1	2	1	0.1	0.45	0.35	-0.79	-0.78	0	0	0	0	0	0
7/20/2024 10:36	64101	REFR_T1	0	3	3	0	0	0	0.36	0.39	0	0	0	0	0	0
7/20/2024 10:37	64101	REFR_T1	0	3	3	0	0	0	0.72	0.78	0	0	0	0	0	0
7/20/2024 10:38	66703	STRA_T1	3	3	0	0.27	0.7	0.43	1.03	0.98	0	0	0	0	0	0
7/20/2024 10:38	64101	REFR_T1	0	3	3	0	0	0	0.36	0.39	0	0	0	0	0	0
7/20/2024 10:39	10901	COOP_T2	0	0	0	0	0	0	-0.25	-0.28	1	1	0	1200	1200	0
7/20/2024 10:40	41602	CLEV_T1	1	1	0	0.3	0	-0.3	0	0	1	1	0	600	600	0
7/20/2024 10:42	20603	GRWO_T2	5	0	-5	0.12	0	-0.12	-0.43	-0.44	1	1	0	900	900	0
7/20/2024 10:45	63304	GREE_T1	0	0	0	0	0	0	-2.3	-2.13	0	0	0	0	0	0
7/20/2024 10:47	63304	GREE_T1	0	0	0	0	0	0	-2.3	-2.13	0	0	0	0	0	0
7/20/2024 10:48	64201	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/20/2024 10:48	64203	KINZ_T1	1	1	0	0.6	0.4	-0.2	0.77	0.76	2	2	0	900	900	0
7/20/2024 10:48	64204	KINZ_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/20/2024 10:54	56803	BENV_T1	2	3	1	1.75	1.5	-0.25	0	0	0	0	0	0	0	0
7/20/2024 10:54	56801	BENV_T1	0	6	6	0	0.9	0.9	-0.46	-0.98	1	2	1	600	1200	600
7/20/2024 10:57	20603	GRWO_T2	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
7/20/2024 10:58	45802	HEGI_T2	0	4	4	0	0.15	0.15	0.43	0.33	1	1	0	300	300	0
7/20/2024 10:59	45802	HEGI_T2	0	4	4	0	0.15	0.15	0.43	0.33	1	1	0	300	300	0
7/20/2024 11:02	55002	NEWP_T1	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
7/20/2024 11:02	55001	NEWP_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/20/2024 11:05	58402	MORO_T1	0	0	0	0	0	0	-0.79	-0.77	3	3	0	2400	2400	0
7/20/2024 11:05	55001	NEWP_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/20/2024 11:05	55002	NEWP_T1	0	0	0	0	0	0	-0.16	-0.12	0	0	0	0	0	0
7/20/2024 11:06	55001	NEWP_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/20/2024 11:06	55002	NEWP_T1	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
7/20/2024 11:09	56803	BENV_T1	3	2	-1	1.37	1.25	-0.12	0.05	0.05	1	1	0	600	600	0
7/20/2024 11:09	56801	BENV_T1	0	10	10	0	0.99	0.99	0	0	0	0	0	0	0	0
7/20/2024 11:10	56803	BENV_T1	3	2	-1	1.37	1.25	-0.12	0	0	0	0	0	0	0	0
7/20/2024 11:10	56801	BENV_T1	0	10	10	0	0.99	0.99	-0.98	-0.99	2	2	0	1200	1200	0
7/20/2024 11:12	11102	EGYP_T1	1	1	0	1	1.5	0.5	0	0	0	0	0	0	0	0
7/20/2024 11:12	11104	EGYP_T1	5	7	2	1.02	2.04	1.02	1.01	1.06	0	0	0	0	0	0
7/20/2024 11:12	11101	EGYP_T1	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
7/20/2024 11:15	11101	EGYP_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/20/2024 11:15	11104	EGYP_T1	5	8	3	2.22	2.04	-0.18	1.01	1.06	0	0	0	0	0	0
7/20/2024 11:15	11102	EGYP_T1	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
7/20/2024 11:16	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 11:18	65001	NEFF_T2	0	0	0	0	0	0	-0.42	-0.55	1	1	0	1200	1200	0
7/20/2024 11:22	65205	PRIN_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
7/20/2024 11:22	65202	PRIN_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
7/20/2024 11:23	56803	BENV_T1	2	3	1	1.5	1.25	-0.25	0	0	0	0	0	0	0	0
7/20/2024 11:23	56801	BENV_T1	6	10	4	0.9	0.99	0.09	-2.97	-2.83	6	6	0	3600	3600	0
7/20/2024 11:24	67603	WARW_T1	0	0	0	0	0	0	0.24	0.3	0	0	0	0	0	0
7/20/2024 11:24	56801	BENV_T1	6	10	4	0.9	0.99	0.09	-0.99	-0.94	2	2	0	1200	1200	0
7/20/2024 11:24	56803	BENV_T1	2	3	1	1.5	1.25	-0.25	0	0	0	0	0	0	0	0
7/20/2024 11:25	56803	BENV_T1	2	3	1	1.5	1.25	-0.25	0	0	0	0	0	0	0	0
7/20/2024 11:25	56801	BENV_T1	6	10	4	0.9	0.99	0.09	-1.98	-1.89	4	4	0	2400	2400	0
7/20/2024 11:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/20/2024 11:26	56803	BENV_T1	2	3	1	1.5	1.25	-0.25	0	0	0	0	0	0	0	0
7/20/2024 11:26	56801	BENV_T1	6	10	4	0.9	0.99	0.09	-2.97	-2.83	6	6	0	3600	3600	0
7/20/2024 11:26	29402	BELT_T1	2	177	175	0.15	1.25	1.1	0	0	0	0	0	0	0	0
7/20/2024 11:27	56803	BENV_T1	2	3	1	1.5	1.25	-0.25	0	0	0	0	0	0	0	0
7/20/2024 11:27	56801	BENV_T1	6	10	4	0.9	0.99	0.09	-1.98	-1.89	4	4	0	2400	2400	0
7/20/2024 11:28	56801	BENV_T1	6	10	4	0.9	0.99	0.09	-0.99	-0.94	2	2	0	1200	1200	0
7/20/2024 11:28	56803	BENV_T1	2	3	1	1.5	1.25	-0.25	0	0	0	0	0	0	0	0
7/20/2024 11:31	58402	MORO_T1	0	0	0	0	0	0	-0.78	-0.86	3	3	0	2400	2400	0
7/20/2024 11:32	55001	NEWP_T1	4	2	-2	0.48	0	-0.48	0	0.09	0	0	0	0	0	0
7/20/2024 11:32	55002	NEWP_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/20/2024 11:37	67801	WLAN_T1	0	1	1	0	0.1	0.1	-0.74	-0.59	0	0	0	0	0	0
7/20/2024 11:37	67804	WLAN_T1	10	10	0	1.07	1.03	-0.04	0	0	0	0	0	0	0	0
7/20/2024 11:39	59101	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 11:40	64101	REFR_T1	3	6	3	0.3	0.8	0.5	0.39	0.42	0	0	0	0	0	0
7/20/2024 11:41	20401	ASHF_T2	0	2	2	0	0.6	0.6	0.17	0.16	0	0	0	0	0	0
7/20/2024 11:45	52004	LING_T2	2	2	0	2.05	2.05	0	0	0	0	0	0	0	0	0
7/20/2024 11:46	46801	HEPB_T2	0	2	2	0	1.3	1.3	0.93	0.96	0	0	0	0	0	0
7/20/2024 11:53	67801	WLAN_T1	1	18	17	0.2	0	-0.2	-0.59	-0.78	0	0	0	0	0	0
7/20/2024 11:53	66103	REAM_T2	0	0	0	0	0	0	1.4	0.18	0	1	1	0	1200	1200

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/20/2024 11:53	67804	WLAN_T1	10	10	0	1.74	1	-0.74	0	0	0	0	0	0	0	0
7/20/2024 11:53	56501	ROCK_T2	2	98	96	0.35	0.23	-0.12	-2.53	-2.52	0	0	0	0	0	0
7/20/2024 11:54	20403	ASHF_T2	0	0	0	0	0	0	0.59	0.65	0	0	0	0	0	0
7/20/2024 11:54	20401	ASHF_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
7/20/2024 11:55	29402	BELT_T1	177	197	20	1.25	1.17	-0.08	0	0	0	0	0	0	0	0
7/20/2024 11:57	52403	GRPA_T2	43	12	-31	0.73	0.65	-0.08	0	0	0	0	0	0	0	0
7/20/2024 11:57	52401	GRPA_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 11:57	52404	GRPA_T2	0	0	0	0	0	0	-0.5	-0.47	0	0	0	0	0	0
7/20/2024 11:57	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 12:00	52401	GRPA_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
7/20/2024 12:00	52403	GRPA_T2	12	4	-8	0.68	0.65	-0.03	0	0	0	0	0	0	0	0
7/20/2024 12:00	52402	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/20/2024 12:00	52404	GRPA_T2	0	0	0	0	0	0	-0.5	-0.47	0	0	0	0	0	0
7/20/2024 12:01	46801	HEPB_T2	0	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0
7/20/2024 12:01	28403	HART_T2	0	0	0	0	0	0	-0.63	-0.64	1	1	0	900	900	0
7/20/2024 12:01	46803	HEPB_T2	0	0	0	0	0	0	0.58	0.63	0	0	0	0	0	0
7/20/2024 12:02	46801	HEPB_T2	0	2	2	0	1.3	1.3	0.96	0.06	0	0	0	0	0	0
7/20/2024 12:03	52404	GRPA_T2	0	0	0	0	0	0	-0.5	-0.47	0	0	0	0	0	0
7/20/2024 12:03	52403	GRPA_T2	12	4	-8	0.68	0.65	-0.03	0	0	0	0	0	0	0	0
7/20/2024 12:03	52402	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/20/2024 12:03	52401	GRPA_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
7/20/2024 12:06	55101	WERT_T1	0	0	0	0	0	0	-1.86	-1.76	4	4	0	3300	3300	0
7/20/2024 12:06	55103	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/20/2024 12:07	55103	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/20/2024 12:07	55101	WERT_T1	0	0	0	0	0	0	-1.76	-1.8	4	4	0	3300	3300	0
7/20/2024 12:08	65802	RTWN_T2	0	0	0	0	0	0	0.42	0.37	0	0	0	0	0	0
7/20/2024 12:09	20403	ASHF_T2	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
7/20/2024 12:09	55101	WERT_T1	0	0	0	0	0	0	-1.76	-1.8	4	4	0	3300	3300	0
7/20/2024 12:09	55103	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/20/2024 12:09	20401	ASHF_T2	2	3	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
7/20/2024 12:10	55101	WERT_T1	0	0	0	0	0	0	-3.52	-3.6	8	8	0	6600	6600	0
7/20/2024 12:10	55103	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/20/2024 12:10	56803	BENV_T1	5	4	-1	0.82	0.5	-0.32	0	0	0	0	0	0	0	0
7/20/2024 12:10	56801	BENV_T1	7	9	2	0.99	0.8	-0.19	-0.88	-0.86	2	2	0	1200	1200	0
7/20/2024 12:12	20403	ASHF_T2	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
7/20/2024 12:12	20401	ASHF_T2	2	3	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
7/20/2024 12:20	64101	REFR_T1	6	10	4	0.92	0.9	-0.02	0.42	0.47	0	0	0	0	0	0
7/20/2024 12:21	55101	WERT_T1	0	5	5	0	0	0	-1.76	-1.8	4	4	0	3300	3300	0
7/20/2024 12:21	55103	WERT_T1	1	1	0	0.2	2.1	1.9	0	0	0	0	0	0	0	0
7/20/2024 12:22	13904	SEID_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/20/2024 12:22	13905	SEID_T1	0	0	0	0	0	0	-0.56	-0.53	1	1	0	1200	1200	0
7/20/2024 12:29	22905	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 12:29	22903	HARW_T1	21	12	-9	0.93	0	-0.93	0	0	0	0	0	0	0	0
7/20/2024 12:29	22901	HARW_T1	8	7	-1	0.45	0.48	0.03	-0.27	-0.24	1	1	0	1200	1200	0
7/20/2024 12:36	67602	WARW_T2	1	4	3	0.1	0.33	0.23	1.88	1.99	4	4	0	3000	3000	0
7/20/2024 12:37	55101	WERT_T1	0	5	5	0	0	0	-1.82	-2.27	4	4	0	3300	3300	0
7/20/2024 12:37	55103	WERT_T1	1	1	0	2.1	0	-2.1	0	0	0	0	0	0	0	0
7/20/2024 12:38	55103	WERT_T1	1	1	0	2.1	0	-2.1	0	0	0	0	0	0	0	0
7/20/2024 12:38	55101	WERT_T1	0	5	5	0	0	0	-3.64	-4.54	8	8	0	6600	6600	0
7/20/2024 12:39	58002	WCAR_T2	2	2	0	0.5	2.1	1.6	0	0	0	0	0	0	0	0
7/20/2024 12:39	58006	WCAR_T2	0	0	0	0	0	0	-0.55	-0.48	0	0	0	0	0	0
7/20/2024 12:41	55101	WERT_T1	0	5	5	0	0	0	-3.64	-4.54	8	8	0	6600	6600	0
7/20/2024 12:41	55103	WERT_T1	1	1	0	2.1	0	-2.1	0	0	0	0	0	0	0	0
7/20/2024 12:42	44801	EDAN_T2	0	1	1	0	0	0	-1.28	-1.31	0	0	0	0	0	0
7/20/2024 12:44	44801	EDAN_T2	0	1	1	0	0	0	-1.28	-1.31	0	0	0	0	0	0
7/20/2024 12:51	13303	ORVI_T1	0	0	0	0	0	0	1.19	1.18	0	0	0	0	0	0
7/20/2024 12:51	67605	WARW_T1	0	0	0	0	0	0	-1.77	-1.81	0	0	0	0	0	0
7/20/2024 12:52	67603	WARW_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
7/20/2024 12:52	67605	WARW_T1	0	0	0	0	0	0	-0.89	-0.91	0	0	0	0	0	0
7/20/2024 12:52	67605	WARW_T1	0	0	0	0	0	0	-0.89	-0.91	0	0	0	0	0	0
7/20/2024 12:52	67605	WARW_T1	0	0	0	0	0	0	-0.89	-0.91	0	0	0	0	0	0
7/20/2024 12:52	67605	WARW_T1	0	0	0	0	0	0	-0.89	-0.91	0	0	0	0	0	0
7/20/2024 12:52	16302	ALPA_T2	0	0	0	0	0	0	-0.21	-0.02	0	0	0	0	0	0
7/20/2024 12:53	67901	WNHO_T2	2	3	1	1.15	1.03	-0.12	0	0	0	0	0	0	0	0
7/20/2024 12:53	43304	WATS_T2	2	0	-2	0.15	0	-0.15	-1.33	-1.39	0	0	0	0	0	0
7/20/2024 12:54	43304	WATS_T2	2	0	-2	0.15	0	-0.15	-1.33	-1.39	0	0	0	0	0	0
7/20/2024 12:55	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/20/2024 12:55	43304	WATS_T2	2	0	-2	0.15	0	-0.15	-0.66	-0.7	0	0	0	0	0	0
7/20/2024 12:55	29402	BELT_T1	164	127	-37	1.15	1.4	0.25	0	0	0	0	0	0	0	0
7/20/2024 12:55	16302	ALPA_T2	0	0	0	0	0	0	-0.42	-0.04	0	0	0	0	0	0
7/20/2024 12:56	43304	WATS_T2	2	0	-2	0.15	0	-0.15	-0.66	-0.7	0	0	0	0	0	0
7/20/2024 13:01	42901	MIDD_T2	4	1	-3	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/20/2024 13:01	42902	MIDD_T2	2	16	14	1.1	2.3	1.2	-0.35	-0.34	0	0	0	0	0	0
7/20/2024 13:04	42901	MIDD_T2	4	1	-3	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/20/2024 13:04	42902	MIDD_T2	2	16	14	1.1	2.3	1.2	-0.7	-0.68	0	0	0	0	0	0
7/20/2024 13:05	42901	MIDD_T2	4	1	-3	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/20/2024 13:05	42902	MIDD_T2	2	16	14	1.1	2.3	1.2	-0.35	-0.34	0	0	0	0	0	0
7/20/2024 13:09	46001	BERW_T1	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
7/20/2024 13:10	58006	WCAR_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
7/20/2024 13:10	58002	WCAR_T2	2	1	-1	2.8	0	-2.8	0	0	0	0	0	0	0	0
7/20/2024 13:10	46001	BERW_T1	0	0	0	0	0	0	-0.23	-0.16	0	0	0	0	0	0
7/20/2024 13:12	46001	BERW_T1	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
7/20/2024 13:14	52004	LING_T2	2	2	0	1.45	1.35	-0.1	0	0	0	0	0	0	0	0
7/20/2024 13:14	52002	LING_T2	0	4	4	0	0	0	0.04	0.04	0	0	0	0	0	0
7/20/2024 13:15	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 13:15	21206	ECAR_T2	23	11	-12	0.61	1.79	1.18	0.29	0.33	0	0	0	0	0	0
7/20/2024 13:25	56801	BENV_T1	6	6	0	0.38	0.57	0.19	-0.87	-0.83	2	2	0	1200	1200	0
7/20/2024 13:25	56803	BENV_T1	6	6	0	0.8	1.28	0.48	0	0	0	0	0	0	0	0
7/20/2024 13:33	64302	LINC_T2	2	2	0	0.7	0.65	-0.05	1.45	1.48	0	0	0	0	0	0
7/20/2024 13:34	15604	NSTR_T1	1	0	-1	0.2	0	-0.2	0.39	0.42	0	0	0	0	0	0
7/20/2024 13:37	43304	WATS_T2	2	4	2	0.4	0.2	-0.2	-0.63	-0.58	0	0	0	0	0	0
7/20/2024 13:37	15604	NSTR_T1	1	0	-1	0.2	0	-0.2	0.42	0.42	0	0	0	0	0	0
7/20/2024 13:38	43304	WATS_T2	2	4	2	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/20/2024 13:40	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.64	-0.66	0	0	0	0	0	0
7/20/2024 13:41	43304	WATS_T2	2	4	2	0.4	0.2	-0.2	-0.63	-0.58	0	0	0	0	0	0
7/20/2024 13:45	12701	MACU_T1	1	0	-1	0.4	0	-0.4	-0.84	-0.83	1	1	0	1200	1200	0
7/20/2024 13:45	63402	HONY_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
7/20/2024 13:45	63403	HONY_T2	0	0	0	0	0	0	-21.61	-21.61	1	1	0	600	600	0
7/20/2024 13:48	12701	MACU_T1	1	0	-1	0.4	0	-0.4	-0.84	-0.83	1	1	0	1200	1200	0
7/20/2024 13:51	67605	WARW_T1	1	0	-1	0.1	0	-0.1	-0.66	-0.54	0	0	0	0	0	0
7/20/2024 13:55	67605	WARW_T1	1	0	-1	0.1	0	-0.1	-0.66	-0.54	0	0	0	0	0	0
7/20/2024 13:59	52403	GRPA_T2	17	21	4	0.54	0.55	0.01	-0.58	-0.58	0	0	0	0	0	0
7/20/2024 14:00	16902	MECK_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
7/20/2024 14:02	16902	MECK_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
7/20/2024 14:03	46101	MACI_T2	0	0	0	0	0	0	-0.47	-0.46	1	1	0	1200	1200	0
7/20/2024 14:09	56801	BENV_T1	5	6	1	0.28	0.48	0.2	-0.85	-0.87	2	2	0	1200	1200	0
7/20/2024 14:09	42701	AUGU_T1	43	38	-5	0.48	0.39	-0.09	0	0	2	2	0	1800	1800	0
7/20/2024 14:09	56803	BENV_T1	7	8	1	1.29	0.86	-0.43	0	0	0	0	0	0	0	0
7/20/2024 14:10	46203	DANV_T2	0	1	1	0	0	0	-1.49	-1.51	0	0	0	0	0	0
7/20/2024 14:10	46204	DANV_T2	9	26	17	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
7/20/2024 14:10	46206	DANV_T2	22	32	10	0.57	0.52	-0.05	0	0	0	0	0	0	0	0
7/20/2024 14:11	56801	BENV_T1	5	6	1	0.28	0.48	0.2	-0.85	-0.87	2	2	0	1200	1200	0
7/20/2024 14:11	56803	BENV_T1	7	8	1	1.29	0.86	-0.43	0	0	0	0	0	0	0	0
7/20/2024 14:12	56801	BENV_T1	5	6	1	0.28	0.48	0.2	0	0	0	0	0	0	0	0
7/20/2024 14:12	56803	BENV_T1	7	8	1	1.29	0.86	-0.43	0.04	0.12	2	2	0	1200	1200	0
7/20/2024 14:16	51004	NHAR_T1	1	1	0	7.5	7.2	-0.3	-2.56	-2.68	0	0	0	0	0	0
7/20/2024 14:23	60801	BUCK_T1	2	0	-2	0.1	0	-0.1	-0.49	-0.54	1	1	0	600	600	0
7/20/2024 14:23	60803	BUCK_T1	15	10	-5	0.26	0.29	0.03	0	0	0	0	0	0	0	0
7/20/2024 14:28	22102	EDEL_T1	0	0	0	0	0	0	-1.38	-1.32	1	1	0	1200	1200	0
7/20/2024 14:29	45802	HEGI_T2	41	42	1	0.85	0.92	0.07	0.06	0.18	0	0	0	0	0	0
7/20/2024 14:32	46101	MACI_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	1200	1200	0
7/20/2024 14:44	24701	FLND_T2	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
7/20/2024 14:47	26401	INOR_T1	1	1	0	7.5	7.4	-0.1	0.92	0.93	0	0	0	0	0	0
7/20/2024 14:48	52501	PROG_T1	0	0	0	0	0	0	-0.77	-0.82	1	1	0	300	300	0
7/20/2024 14:49	52503	PROG_T2	0	0	0	0	0	0	-0.34	-0.24	3	3	0	2700	2700	0
7/20/2024 14:49	52501	PROG_T1	0	0	0	0	0	0	-0.77	-0.82	1	1	0	300	300	0
7/20/2024 14:50	52501	PROG_T1	0	0	0	0	0	0	-0.77	-0.82	1	1	0	300	300	0
7/20/2024 14:52	52503	PROG_T2	0	0	0	0	0	0	-0.08	-0.12	1	1	0	900	900	0
7/20/2024 14:52	57104	SPHI_T2	0	0	0	0	0	0	-0.99	-1.04	1	1	0	900	900	0
7/20/2024 14:52	57106	SPHI_T2	3	3	0	0.6	0.77	0.17	0	0	0	0	0	0	0	0
7/20/2024 14:52	57101	SPHI_T2	6	6	0	0.73	1	0.27	0	0	0	0	0	0	0	0
7/20/2024 14:55	46204	DANV_T2	25	64	39	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
7/20/2024 14:55	46206	DANV_T2	33	50	17	0.56	0.53	-0.03	0	0	0	0	0	0	0	0
7/20/2024 14:55	46203	DANV_T2	0	2	2	0	0	0	-1.49	-1.46	0	0	0	0	0	0
7/20/2024 14:58	46203	DANV_T2	0	2	2	0	0	0	-2.99	-2.91	0	0	0	0	0	0
7/20/2024 14:58	46204	DANV_T2	25	64	39	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
7/20/2024 14:58	46206	DANV_T2	33	50	17	0.56	0.53	-0.03	0	0	0	0	0	0	0	0
7/20/2024 15:04	46102	MACI_T1	0	0	0	0	0	0	0.92	0.92	0	0	0	0	0	0
7/20/2024 15:07	28102	TWLA_T2	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
7/20/2024 15:17	51004	NHAR_T1	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
7/20/2024 15:17	51003	NHAR_T1	0	0	0	0	0	0	-1.53	-1.54	1	1	0	1200	1200	0
7/20/2024 15:18	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 15:18	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 15:18	52403	GRPA_T2	8	3	-5	0.59	1.35	0.76	-0.91	-0.94	0	0	0	0	0	0
7/20/2024 15:24	59202	THOM_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
7/20/2024 15:32	46102	MACI_T1	0	0	0	0	0	0	0.91	0.94	0	0	0	0	0	0
7/20/2024 15:37	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 15:37	40502	CRES_T2	4	2	-2	0.2	0.2	0	-0.29	-0.32	0	0	0	0	0	0
7/20/2024 15:38	40502	CRES_T2	4	2	-2	0.2	0.2	0	-0.29	-0.32	0	0	0	0	0	0
7/20/2024 15:38	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 15:39	40502	CRES_T2	4	2	-2	0.2	0.2	0	-0.29	-0.32	0	0	0	0	0	0
7/20/2024 15:39	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 15:41	46204	DANV_T2	44	62	18	0.41	0.35	-0.06	0	0	0	0	0	0	0	0
7/20/2024 15:41	46203	DANV_T2	0	0	0	0	0	0	-1.53	-1.52	0	0	0	0	0	0
7/20/2024 15:41	46206	DANV_T2	57	56	-1	0.59	0.49	-0.1	0	0	0	0	0	0	0	0
7/20/2024 15:51	44902	SCOT_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
7/20/2024 16:00	63401	HONY_T1	0	0	0	0	0	0	0.71	0.83	0	0	0	0	0	0
7/20/2024 16:06	67203	TEHI_T1	0	0	0	0	0	0	1.33	1.42	1	1	0	900	900	0
7/20/2024 16:07	67203	TEHI_T1	0	0	0	0	0	0	1.33	1.42	1	1	0	900	900	0
7/20/2024 16:21	67201	TEHI_T1	0	0	0	0	0	0	0.12	0.15	1	1	0	600	600	0
7/20/2024 16:23	14403	SSLA_T1	1	2	1	0.2	0	-0.2	0.19	0.18	2	2	0	1200	1200	0
7/20/2024 16:23	14404	SSLA_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
7/20/2024 16:25	14403	SSLA_T1	1	2	1	0.2	0	-0.2	0.19	0.18	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/20/2024 16:25	14404	SSLA_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
7/20/2024 16:30	24702	FLND_T2	0	0	0	0	0	0	-0.33	-0.36	2	2	0	2400	2400	0
7/20/2024 16:41	28102	TWLA_T2	0	1	1	0	0	0	0.32	0.33	0	0	0	0	0	0
7/20/2024 16:54	22003	BOHE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 16:54	22002	BOHE_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
7/20/2024 17:19	64203	KINZ_T1	0	0	0	0	0	0	-0.41	-0.46	2	2	0	900	900	0
7/20/2024 17:19	64204	KINZ_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/20/2024 17:21	22701	MINO_T1	0	0	0	0	0	0	-0.54	-0.54	1	1	0	600	600	0
7/20/2024 17:22	40502	CRES_T2	1	5	4	0.2	0.18	-0.02	-0.34	-0.41	0	0	0	0	0	0
7/20/2024 17:22	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 17:24	40502	CRES_T2	1	5	4	0.2	0.18	-0.02	-0.68	-0.83	0	0	0	0	0	0
7/20/2024 17:24	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 17:25	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 17:25	40502	CRES_T2	1	5	4	0.2	0.18	-0.02	-0.34	-0.41	0	0	0	0	0	0
7/20/2024 17:26	40502	CRES_T2	1	5	4	0.2	0.18	-0.02	-1.02	-1.24	0	0	0	0	0	0
7/20/2024 17:26	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 17:27	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 17:27	40502	CRES_T2	1	5	4	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
7/20/2024 17:30	64201	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/20/2024 17:30	64204	KINZ_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
7/20/2024 17:30	64203	KINZ_T1	0	0	0	0	0	0	-0.46	-0.46	2	2	0	900	900	0
7/20/2024 17:37	59102	WALK_T2	0	9	9	0	0.19	0.19	0.58	0.57	0	0	0	0	0	0
7/20/2024 17:51	57101	SPHI_T2	6	0	-6	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/20/2024 17:51	57106	SPHI_T2	3	3	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
7/20/2024 17:51	57103	SPHI_T2	0	0	0	0	0	0	-0.88	-0.94	1	1	0	600	600	0
7/20/2024 18:05	48302	ORWI_T2	0	2	2	0	0.3	0.3	-0.52	-0.48	0	0	0	0	0	0
7/20/2024 18:05	65603	QVIL_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
7/20/2024 18:05	65602	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 18:07	58003	WCAR_T1	1	1	0	0.7	0.7	0	0.38	0.35	1	1	0	600	600	0
7/20/2024 18:07	58001	WCAR_T1	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/20/2024 18:08	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 18:08	58003	WCAR_T1	1	1	0	0.7	0.7	0	0.38	0.35	1	1	0	600	600	0
7/20/2024 18:08	58001	WCAR_T1	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/20/2024 18:10	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 18:12	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 18:18	12606	MACA_T1	7	1	-6	0.43	0	-0.43	0	0	0	0	0	0	0	0
7/20/2024 18:18	12601	MACA_T1	0	0	0	0	0	0	1.27	1.27	0	0	0	0	0	0
7/20/2024 18:19	57106	SPHI_T2	3	3	0	0.5	0.77	0.27	0	0	0	0	0	0	0	0
7/20/2024 18:19	57101	SPHI_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
7/20/2024 18:19	57103	SPHI_T2	0	0	0	0	0	0	-0.88	-0.94	1	1	0	600	600	0
7/20/2024 18:25	46001	BERW_T1	0	2	2	0	0.7	0.7	1.11	1.12	0	0	0	0	0	0
7/20/2024 18:28	54505	ENOL_T2	0	0	0	0	0	0	-0.75	-0.69	1	1	0	600	600	0
7/20/2024 18:32	46101	MACI_T2	1	2	1	0.1	0.1	0	-0.53	-0.52	1	1	0	1200	1200	0
7/20/2024 18:33	65207	PRIN_T4	2	2	0	0.2	0.4	0.2	0	0	2	2	0	1800	1800	0
7/20/2024 18:40	65401	MARI_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
7/20/2024 18:42	62102	ELAN_T1	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
7/20/2024 18:54	10603	BLGL_T1	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
7/20/2024 18:58	10603	BLGL_T1	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
7/20/2024 19:04	55001	NEWP_T1	0	0	0	0	0	0	0.15	0.08	0	0	0	0	0	0
7/20/2024 19:04	55002	NEWP_T1	3	3	0	0.9	0.97	0.07	0	0	0	0	0	0	0	0
7/20/2024 19:05	55002	NEWP_T1	3	3	0	0.9	0.97	0.07	0	0	0	0	0	0	0	0
7/20/2024 19:05	55001	NEWP_T1	0	0	0	0	0	0	0.15	0.08	0	0	0	0	0	0
7/20/2024 19:07	66901	SHIL_T2	0	0	0	0	0	0	0.35	0.28	0	0	0	0	0	0
7/20/2024 19:13	62102	ELAN_T1	0	0	0	0	0	0	0.73	0.63	0	0	0	0	0	0
7/20/2024 19:18	65004	NEFF_T2	0	0	0	0	0	0	-0.49	-0.5	1	1	0	600	600	0
7/20/2024 19:33	50105	HARR_T3	6	6	0	6.1	5.97	-0.13	0	0	0	0	0	0	0	0
7/20/2024 19:33	50201	HARR_T3	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/20/2024 19:33	50103	HARR_T3	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 19:33	52004	LING_T2	2	2	0	1.95	2.1	0.15	0.1	0.13	0	0	0	0	0	0
7/20/2024 19:33	50107	HARR_T3	1	1	0	8.1	7.2	-0.9	0.88	0.88	0	0	0	0	0	0
7/20/2024 19:34	52001	LING_T1	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
7/20/2024 19:35	52001	LING_T1	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
7/20/2024 19:41	54503	ENOL_T2	0	0	0	0	0	0	-1.78	-1.71	1	1	0	600	600	0
7/20/2024 19:58	11104	EGYP_T1	8	6	-2	1.28	0.68	-0.6	0	0	0	0	0	0	0	0
7/20/2024 19:58	11103	EGYP_T1	0	0	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
7/20/2024 19:58	11102	EGYP_T1	1	1	0	1.4	0.3	-1.1	0	0	0	0	0	0	0	0
7/20/2024 19:58	11101	EGYP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 20:18	64201	HUNT_T2	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
7/20/2024 20:21	40101	HUNT_T2	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
7/20/2024 20:25	56504	ROCK_T2	3	3	0	0.8	1.17	0.37	0	0	0	0	0	0	0	0
7/20/2024 20:25	56501	ROCK_T2	14	143	129	0.14	0.27	0.13	-2.46	-2.49	0	0	0	0	0	0
7/20/2024 20:42	66701	STRA_T1	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
7/20/2024 20:42	66703	STRA_T1	0	0	0	0	0	0	0.5	0.34	0	0	0	0	0	0
7/20/2024 20:44	10901	COOP_T2	0	0	0	0	0	0	-0.37	-0.4	1	1	0	1200	1200	0
7/20/2024 20:49	13503	MCMI_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
7/20/2024 20:50	13503	MCMI_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
7/20/2024 21:36	55002	NEWP_T1	2	2	0	0.25	0.85	0.6	0	0	0	0	0	0	0	0
7/20/2024 21:36	55001	NEWP_T1	1	1	0	0.4	0.3	-0.1	-0.13	-0.18	0	0	0	0	0	0
7/20/2024 21:49	56501	ROCK_T2	0	1	1	0	0	0	-1.31	-1.32	0	0	0	0	0	0
7/20/2024 21:52	56501	ROCK_T2	0	1	1	0	0	0	-1.32	-1.4	0	0	0	0	0	0
7/20/2024 22:05	64101	REFR_T1	0	0	0	0	0	0	0.32	0.28	0	0	0	0	0	0
7/20/2024 22:07	64101	REFR_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
7/20/2024 22:08	56801	BENV_T1	10	4	-6	0.74	0.98	0.24	-0.48	-0.49	1	1	0	600	600	0
7/20/2024 22:08	65201	PRIN_T4	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/20/2024 22:08	65207	PRIN_T4	2	0	-2	0.1	0	-0.1	0	0	1	1	0	1200	1200	0
7/20/2024 22:08	65206	PRIN_T4	12	2	-10	0.62	3.6	2.98	0	0	0	0	0	0	0	0
7/20/2024 22:10	50105	HARR_T3	6	6	0	6.03	5.9	-0.13	0	0	0	0	0	0	0	0
7/20/2024 22:10	65003	NEFF_T2	4	4	0	0.13	0.23	0.1	0	0	0	0	0	0	0	0
7/20/2024 22:10	65001	NEFF_T2	0	26	26	0	0.11	0.11	-0.94	-0.95	1	1	0	1200	1200	0
7/20/2024 22:10	67603	WARW_T1	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
7/20/2024 22:10	60801	BUCK_T1	0	1	1	0	0.1	0.1	-0.05	-0.05	0	0	0	0	0	0
7/20/2024 22:10	50201	HARR_T3	1	2	1	8.6	9.9	1.3	0	0	0	0	0	0	0	0
7/20/2024 22:10	50107	HARR_T3	1	1	0	7.1	6.8	-0.3	0.82	0.82	0	0	0	0	0	0
7/20/2024 22:10	67605	WARW_T1	3	2	-1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
7/20/2024 22:10	60803	BUCK_T1	10	9	-1	0.21	0.23	0.02	0	0	0	0	0	0	0	0
7/20/2024 22:11	65001	NEFF_T2	0	26	26	0	0.11	0.11	0	0	0	0	0	0	0	0
7/20/2024 22:11	67602	WARW_T2	0	0	0	0	0	0	0.56	0.53	2	2	0	1500	1500	0
7/20/2024 22:11	56801	BENV_T1	10	4	-6	0.74	0.98	0.24	-0.48	-0.49	1	1	0	600	600	0
7/20/2024 22:11	65003	NEFF_T2	4	4	0	0.13	0.23	0.1	0	0	0	0	0	0	0	0
7/20/2024 22:11	65004	NEFF_T2	0	0	0	0	0	0	-0.6	-0.61	1	1	0	600	600	0
7/20/2024 22:12	56801	BENV_T1	10	4	-6	0.74	0.98	0.24	-0.95	-0.98	2	2	0	1200	1200	0
7/20/2024 22:12	67801	WLAN_T1	0	0	0	0	0	0	-1.1	-1.11	0	0	0	0	0	0
7/20/2024 22:12	67804	WLAN_T1	9	3	-6	0.27	0.8	0.53	0	0	0	0	0	0	0	0
7/20/2024 22:13	64204	KINZ_T1	3	3	0	0.33	0.47	0.14	0	0	0	0	0	0	0	0
7/20/2024 22:13	67603	WARW_T1	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
7/20/2024 22:13	64302	LINC_T2	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
7/20/2024 22:13	64201	KINZ_T1	11	39	28	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/20/2024 22:13	64203	KINZ_T1	0	3	3	0	0.1	0.1	0.56	0.53	0	0	0	0	0	0
7/20/2024 22:13	64202	KINZ_T1	3	3	0	0.23	0.67	0.44	0	0	0	0	0	0	0	0
7/20/2024 22:13	67605	WARW_T1	3	2	-1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
7/20/2024 22:13	56801	BENV_T1	10	4	-6	0.74	0.98	0.24	-1.43	-1.46	3	3	0	1800	1800	0
7/20/2024 22:14	60801	BUCK_T1	0	1	1	0	0.1	0.1	-0.05	-0.05	0	0	0	0	0	0
7/20/2024 22:14	11103	EGYP_T1	0	0	0	0	0	0	-0.69	-0.73	0	0	0	0	0	0
7/20/2024 22:14	67605	WARW_T1	3	2	-1	0.4	0.8	0.4	-1.01	-1.02	0	0	0	0	0	0
7/20/2024 22:14	67203	TEHI_T1	0	0	0	0	0	0	1.11	1.13	1	1	0	900	900	0
7/20/2024 22:14	60803	BUCK_T1	10	9	-1	0.21	0.23	0.02	0	0	0	0	0	0	0	0
7/20/2024 22:15	64101	REFR_T1	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
7/20/2024 22:16	60502	NMAN_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
7/20/2024 22:17	65205	PRIN_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
7/20/2024 22:17	63304	GREE_T1	79	36	-43	0.15	0.13	-0.02	-2.64	-2.62	0	0	0	0	0	0
7/20/2024 22:17	62102	ELAN_T1	0	0	0	0	0	0	1.28	1.25	0	0	0	0	0	0
7/20/2024 22:17	63305	GREE_T1	5	4	-1	0.22	0.25	0.03	0	0	0	0	0	0	0	0
7/20/2024 22:18	60801	BUCK_T1	1	9	8	0.1	0.12	0.02	-0.05	-0.05	0	0	0	0	0	0
7/20/2024 22:18	60502	NMAN_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
7/20/2024 22:18	13905	SEID_T1	0	0	0	0	0	0	-0.67	-0.74	1	1	0	1200	1200	0
7/20/2024 22:18	60803	BUCK_T1	8	10	2	0.2	0.31	0.11	0	0	0	0	0	0	0	0
7/20/2024 22:18	67605	WARW_T1	2	3	1	0.8	0.8	0	-2.01	-2.03	0	0	0	0	0	0
7/20/2024 22:18	48302	ORWI_T2	2	2	0	1.15	1	-0.15	-0.82	-0.88	0	0	0	0	0	0
7/20/2024 22:19	16302	ALPA_T2	0	0	0	0	0	0	-0.51	-0.47	0	0	0	0	0	0
7/20/2024 22:19	11104	EGYP_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
7/20/2024 22:20	40502	CRES_T2	11	6	-5	0.28	0.45	0.17	-0.6	-0.62	0	0	0	0	0	0
7/20/2024 22:20	57106	SPHI_T2	3	3	0	1.33	1.27	-0.06	0	0	0	0	0	0	0	0
7/20/2024 22:20	57101	SPHI_T2	6	6	0	0.53	0.27	-0.26	0	0	0	0	0	0	0	0
7/20/2024 22:20	57104	SPHI_T2	1	1	0	7.5	5.8	-1.7	0	0	0	0	0	0	0	0
7/20/2024 22:20	57103	SPHI_T2	0	0	0	0	0	0	-0.51	-0.49	1	1	0	600	600	0
7/20/2024 22:20	67602	WARW_T2	0	0	0	0	0	0	1.13	1.07	4	4	0	3000	3000	0
7/20/2024 22:20	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/20/2024 22:20	52004	LING_T2	2	2	0	1.8	2.1	0.3	0	0.03	0	0	0	0	0	0
7/20/2024 22:20	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 22:20	64101	REFR_T1	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
7/20/2024 22:20	67605	WARW_T1	2	3	1	0.8	0.8	0	-1.01	-1.02	0	0	0	0	0	0
7/20/2024 22:21	55105	WERT_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
7/20/2024 22:21	67203	TEHI_T1	0	0	0	0	0	0	1.13	1.11	1	1	0	900	900	0
7/20/2024 22:21	55101	WERT_T1	0	0	0	0	0	0	-1.86	-1.91	3	3	0	2400	2400	0
7/20/2024 22:21	64101	REFR_T1	0	0	0	0	0	0	0.26	0.22	0	0	0	0	0	0
7/20/2024 22:22	65603	QVIL_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
7/20/2024 22:22	14403	SSLA_T1	0	1	1	0	0	0	0.25	0.2	1	1	0	600	600	0
7/20/2024 22:22	14404	SSLA_T1	1	1	0	4.2	3.3	-0.9	0	0	0	0	0	0	0	0
7/20/2024 22:22	65604	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/20/2024 22:22	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/20/2024 22:22	60201	ATGL_T2	1	0	-1	0.1	0	-0.1	0.64	0.61	0	0	0	0	0	0
7/20/2024 22:22	16302	ALPA_T2	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
7/20/2024 22:23	46102	MACI_T1	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
7/20/2024 22:23	52503	PROG_T2	0	0	0	0	0	0	-0.35	-0.36	1	1	0	900	900	0
7/20/2024 22:23	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/20/2024 22:23	40502	CRES_T2	11	6	-5	0.28	0.45	0.17	-0.62	-0.64	0	0	0	0	0	0
7/20/2024 22:23	64101	REFR_T1	0	0	0	0	0	0	0.52	0.44	0	0	0	0	0	0
7/20/2024 22:24	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/20/2024 22:24	67602	WARW_T2	0	0	0	0	0	0	0.53	0.56	2	2	0	1500	1500	0
7/20/2024 22:24	63402	HONY_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/20/2024 22:24	40502	CRES_T2	11	6	-5	0.28	0.45	0.17	-0.62	-0.64	0	0	0	0	0	0
7/20/2024 22:24	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 22:24	63403	HONY_T2	0	0	0	0	0	0	-21.61	-21.61	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/20/2024 22:24	20403	ASHF_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
7/20/2024 22:25	40302	TAMA_T3	1	2	1	0.2	0.25	0.05	-1.13	-1.12	1	1	0	1200	1200	0
7/20/2024 22:25	51003	NHAR_T1	0	0	0	0	0	0	-1.72	-1.7	1	1	0	1200	1200	0
7/20/2024 22:25	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 22:25	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 22:25	24902	WHHA_T1	0	1	1	0	0	0	0.23	0.26	0	0	0	0	0	0
7/20/2024 22:25	51002	NHAR_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
7/20/2024 22:25	67602	WARW_T2	0	0	0	0	0	0	0.53	0.56	2	2	0	1500	1500	0
7/20/2024 22:25	67605	WARW_T1	2	3	1	0.8	0.8	0	-1.02	-1.05	0	0	0	0	0	0
7/20/2024 22:25	51004	NHAR_T1	1	1	0	6.6	6.4	-0.2	-1.52	-1.55	0	0	0	0	0	0
7/20/2024 22:25	67901	WNHO_T2	34	52	18	0.19	0.29	0.1	0	0	0	0	0	0	0	0
7/20/2024 22:25	16902	MECK_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
7/20/2024 22:25	29402	BELT_T1	4	33	29	2.45	0.58	-1.87	0	0	0	0	0	0	0	0
7/20/2024 22:25	59102	WALK_T2	0	0	0	0	0	0	-0.21	-0.22	1	1	0	600	600	0
7/20/2024 22:26	60801	BUCK_T1	1	9	8	0.1	0.12	0.02	-0.05	-0.09	0	0	0	0	0	0
7/20/2024 22:26	60803	BUCK_T1	8	10	2	0.2	0.31	0.11	0	0	0	0	0	0	0	0
7/20/2024 22:26	58006	WCAR_T2	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
7/20/2024 22:26	46101	MACI_T2	0	0	0	0	0	0	0.74	0.72	0	0	0	0	0	0
7/20/2024 22:26	16902	MECK_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
7/20/2024 22:26	56801	BENV_T1	4	4	0	0.98	0.88	-0.1	0	0	0	0	0	0	0	0
7/20/2024 22:26	56803	BENV_T1	0	0	0	0	0	0	-0.22	-0.22	1	1	0	600	600	0
7/20/2024 22:26	24701	FLND_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
7/20/2024 22:26	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 22:26	20403	ASHF_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
7/20/2024 22:26	20603	GRWO_T2	53	85	32	0.24	0.29	0.05	-0.48	-0.5	1	1	0	900	900	0
7/20/2024 22:27	65802	RTWN_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
7/20/2024 22:27	66902	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/20/2024 22:27	52501	PROG_T1	13	0	-13	0.14	0	-0.14	-1	-0.98	1	1	0	300	300	0
7/20/2024 22:27	66901	SHIL_T2	0	4	4	0	0.1	0.1	0.14	0.14	0	0	0	0	0	0
7/20/2024 22:27	45802	HEGI_T2	48	9	-39	1.69	0.34	-1.35	0.68	0.69	0	0	0	0	0	0
7/20/2024 22:27	56801	BENV_T1	4	4	0	0.98	0.88	-0.1	-0.49	-0.51	1	1	0	600	600	0
7/20/2024 22:27	20401	ASHF_T2	0	2	2	0	0	0	0.01	0.04	0	0	0	0	0	0
7/20/2024 22:27	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/20/2024 22:27	52001	LING_T1	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
7/20/2024 22:27	40502	CRES_T2	11	6	-5	0.28	0.45	0.17	-1.24	-1.28	0	0	0	0	0	0
7/20/2024 22:28	63401	HONY_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
7/20/2024 22:28	55001	NEWP_T1	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
7/20/2024 22:28	13503	MCMI_T2	0	0	0	0	0	0	-0.77	0.16	0	0	0	0	0	0
7/20/2024 22:28	55002	NEWP_T1	2	2	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
7/20/2024 22:28	56801	BENV_T1	4	4	0	0.98	0.88	-0.1	-0.49	-0.51	1	1	0	600	600	0
7/20/2024 22:28	63304	GREE_T1	79	36	-43	0.15	0.13	-0.02	-2.62	-2.72	0	0	0	0	0	0
7/20/2024 22:28	63305	GREE_T1	5	4	-1	0.22	0.25	0.03	0	0	0	0	0	0	0	0
7/20/2024 22:28	29402	BELT_T1	4	33	29	2.45	0.58	-1.87	0	0	0	0	0	0	0	0
7/20/2024 22:28	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 22:28	20403	ASHF_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
7/20/2024 22:28	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/20/2024 22:29	55101	WERT_T1	0	0	0	0	0	0	-1.91	-1.86	3	3	0	2400	2400	0
7/20/2024 22:29	54503	ENOL_T2	0	0	0	0	0	0	-0.82	-0.92	1	1	0	600	600	0
7/20/2024 22:29	57106	SPHI_T2	3	3	0	1.33	1.27	-0.06	0	0	0	0	0	0	0	0
7/20/2024 22:29	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 22:29	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 22:29	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/20/2024 22:29	46101	MACI_T2	0	0	0	0	0	0	0.74	0.72	0	0	0	0	0	0
7/20/2024 22:29	57104	SPHI_T2	1	1	0	7.5	5.8	-1.7	-1.41	-1.48	1	1	0	900	900	0
7/20/2024 22:29	15604	NSTR_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
7/20/2024 22:29	24902	WHHA_T1	0	1	1	0	0	0	0.23	0.26	0	0	0	0	0	0
7/20/2024 22:29	57101	SPHI_T2	6	6	0	0.53	0.27	-0.26	0	0	0	0	0	0	0	0
7/20/2024 22:29	46206	DANV_T2	0	0	0	0	0	0	0.05	0.02	2	2	0	2100	2100	0
7/20/2024 22:29	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 22:29	67602	WARW_T2	0	0	0	0	0	0	0.53	0.56	2	2	0	1500	1500	0
7/20/2024 22:29	55105	WERT_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
7/20/2024 22:29	46203	DANV_T2	0	0	0	0	0	0	-3.28	-3.35	0	0	0	0	0	0
7/20/2024 22:29	20403	ASHF_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
7/20/2024 22:29	67201	TEHI_T1	0	0	0	0	0	0	0.47	0.52	0	0	0	0	0	0
7/20/2024 22:30	40501	CRES_T2	2	3	1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/20/2024 22:30	40502	CRES_T2	6	16	10	0.43	0.29	-0.14	-0.62	-0.64	0	0	0	0	0	0
7/20/2024 22:30	12701	MACU_T1	0	0	0	0	0	0	-1	-1.04	1	1	0	1200	1200	0
7/20/2024 22:30	55101	WERT_T1	0	0	0	0	0	0	-1.91	-1.86	3	3	0	2400	2400	0
7/20/2024 22:30	29402	BELT_T1	33	38	5	0.58	0.61	0.03	0	0	0	0	0	0	0	0
7/20/2024 22:30	22002	BOHE_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
7/20/2024 22:30	52501	PROG_T1	0	0	0	0	0	0	-1	-0.98	1	1	0	300	300	0
7/20/2024 22:30	22003	BOHE_T1	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
7/20/2024 22:30	12601	MACA_T1	0	0	0	0	0	0	1.1	1.06	0	0	0	0	0	0
7/20/2024 22:31	64204	KINZ_T1	2	1	-1	0.65	0.9	0.25	0	0	0	0	0	0	0	0
7/20/2024 22:31	40501	CRES_T2	2	3	1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/20/2024 22:31	52004	LING_T2	2	2	0	2.1	2.3	0.2	0.03	0	0	0	0	0	0	0
7/20/2024 22:31	22102	EDEL_T1	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
7/20/2024 22:31	64201	KINZ_T1	37	1	-36	0.2	0.6	0.4	0	0	0	0	0	0	0	0
7/20/2024 22:31	20403	ASHF_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
7/20/2024 22:31	46001	BERW_T1	0	0	0	0	0	0	1.77	1.74	0	0	0	0	0	0
7/20/2024 22:31	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 22:31	52501	PROG_T1	0	0	0	0	0	0	-1	-0.98	1	1	0	300	300	0
7/20/2024 22:31	14404	SSLA_T1	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
7/20/2024 22:31	64305	LINC_T1	1	1	0	0.3	0	-0.3	-0.3	-0.32	0	0	0	0	0	0
7/20/2024 22:31	40502	CRES_T2	6	16	10	0.43	0.29	-0.14	-0.62	-0.64	0	0	0	0	0	0
7/20/2024 22:31	64202	KINZ_T1	3	3	0	0.67	0.27	-0.4	0	0	0	0	0	0	0	0
7/20/2024 22:31	67605	WARW_T1	2	3	1	0.8	0.37	-0.43	-1.02	-1.05	0	0	0	0	0	0
7/20/2024 22:31	64203	KINZ_T1	3	0	-3	0.1	0	-0.1	0.53	0.55	0	0	0	0	0	0
7/20/2024 22:31	56801	BENV_T1	4	5	1	0.75	1.23	0.48	-0.49	-0.51	1	1	0	600	600	0
7/20/2024 22:31	58003	WCAR_T1	16	1	-15	0.24	1.8	1.56	0.24	0.23	1	1	0	600	600	0
7/20/2024 22:31	46206	DANV_T2	0	0	0	0	0	0	0.05	0.02	2	2	0	2100	2100	0
7/20/2024 22:31	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 22:31	58001	WCAR_T1	4	4	0	1.15	1.18	0.03	0	0	0	0	0	0	0	0
7/20/2024 22:31	14403	SSLA_T1	0	1	1	0	0	0	0.25	0.2	1	1	0	600	600	0
7/20/2024 22:32	46001	BERW_T1	0	0	0	0	0	0	1.77	1.74	0	0	0	0	0	0
7/20/2024 22:32	40501	CRES_T2	2	3	1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/20/2024 22:32	45802	HEGI_T2	8	9	1	0.34	0.34	0	0.68	0.69	0	0	0	0	0	0
7/20/2024 22:32	21204	ECAR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/20/2024 22:32	24702	FLND_T2	0	0	0	0	0	0	-0.4	-0.42	1	1	0	1200	1200	0
7/20/2024 22:32	52404	GRPA_T2	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
7/20/2024 22:32	52402	GRPA_T2	2	1	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/20/2024 22:32	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/20/2024 22:32	46101	MACI_T2	0	0	0	0	0	0	0.74	0.72	0	0	0	0	0	0
7/20/2024 22:32	21206	ECAR_T2	1	1	0	7.8	8.2	0.4	0.22	0.2	0	0	0	0	0	0
7/20/2024 22:32	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/20/2024 22:32	40502	CRES_T2	6	16	10	0.43	0.29	-0.14	-0.62	-0.64	0	0	0	0	0	0
7/20/2024 22:32	11104	EGYP_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
7/20/2024 22:33	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/20/2024 22:33	22901	HARW_T1	0	0	0	0	0	0	-0.58	-0.55	1	1	0	1200	1200	0
7/20/2024 22:33	55002	NEWP_T1	2	3	1	0.75	0.97	0.22	-0.16	-0.18	0	0	0	0	0	0
7/20/2024 22:33	22905	HARW_T1	3	10	7	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/20/2024 22:33	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 22:33	40501	CRES_T2	2	3	1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/20/2024 22:33	22903	HARW_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/20/2024 22:33	16302	ALPA_T2	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
7/20/2024 22:33	65401	MARI_T1	0	0	0	0	0	0	0.22	0.17	0	0	0	0	0	0
7/20/2024 22:33	59002	MIFF_T1	1	5	4	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
7/20/2024 22:33	59003	MIFF_T1	0	1	1	0	0.2	0.2	-0.84	-0.68	0	0	0	0	0	0
7/20/2024 22:33	12701	MACU_T1	0	0	0	0	0	0	-1	-1.04	1	1	0	1200	1200	0
7/20/2024 22:33	48302	ORWI_T2	2	2	0	1	0.9	-0.1	-0.44	-0.47	0	0	0	0	0	0
7/20/2024 22:33	15604	NSTR_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
7/20/2024 22:33	40502	CRES_T2	6	16	10	0.43	0.29	-0.14	-0.62	-0.64	0	0	0	0	0	0
7/20/2024 22:33	13303	ORVI_T1	0	0	0	0	0	0	0.88	0.82	0	0	0	0	0	0
7/20/2024 22:33	46001	BERW_T1	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
7/20/2024 22:33	65402	MARI_T1	13	10	-3	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
7/20/2024 22:33	10603	BLGL_T1	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
7/20/2024 22:34	52402	GRPA_T2	2	1	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/20/2024 22:34	46203	DANV_T2	0	0	0	0	0	0	-1.64	-1.67	0	0	0	0	0	0
7/20/2024 22:34	55002	NEWP_T1	2	3	1	0.75	0.97	0.22	-0.08	-0.09	0	0	0	0	0	0
7/20/2024 22:34	20601	GRWO_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
7/20/2024 22:34	52404	GRPA_T2	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
7/20/2024 22:34	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/20/2024 22:34	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/20/2024 22:34	20603	GRWO_T2	84	111	27	0.29	0.31	0.02	-0.48	-0.5	1	1	0	900	900	0
7/20/2024 22:34	13503	MCMI_T2	0	0	0	0	0	0	-0.77	0.16	0	0	0	0	0	0
7/20/2024 22:34	55101	WERT_T1	0	0	0	0	0	0	-1.91	-1.86	3	3	0	2400	2400	0
7/20/2024 22:35	55002	NEWP_T1	2	3	1	0.75	0.97	0.22	-0.08	-0.09	0	0	0	0	0	0
7/20/2024 22:35	57103	SPHI_T2	0	0	0	0	0	0	-0.49	-0.53	1	1	0	600	600	0
7/20/2024 22:35	59101	WALK_T2	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
7/20/2024 22:35	58003	WCAR_T1	16	1	-15	0.24	1.8	1.56	0.24	0.23	1	1	0	600	600	0
7/20/2024 22:35	57106	SPHI_T2	3	3	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
7/20/2024 22:35	57101	SPHI_T2	6	6	0	0.27	0.52	0.25	0	0	0	0	0	0	0	0
7/20/2024 22:35	57104	SPHI_T2	1	1	0	5.8	4.1	-1.7	0	0	0	0	0	0	0	0
7/20/2024 22:35	58001	WCAR_T1	4	4	0	1.15	1.18	0.03	0	0	0	0	0	0	0	0
7/20/2024 22:35	46203	DANV_T2	0	0	0	0	0	0	-1.64	-1.67	0	0	0	0	0	0
7/20/2024 22:35	56801	BENV_T1	4	5	1	0.75	1.23	0.48	-0.49	-0.51	1	1	0	600	600	0
7/20/2024 22:35	55101	WERT_T1	0	0	0	0	0	0	-1.91	-1.86	3	3	0	2400	2400	0
7/20/2024 22:35	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 22:36	46102	MACI_T1	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
7/20/2024 22:36	55101	WERT_T1	0	0	0	0	0	0	-1.91	-1.86	3	3	0	2400	2400	0
7/20/2024 22:36	44801	EDAN_T2	0	1	1	0	0.1	0.1	-1.43	-1.43	0	0	0	0	0	0
7/20/2024 22:36	43304	WATS_T2	0	0	0	0	0	0	-1.59	-1.7	0	0	0	0	0	0
7/20/2024 22:36	43301	WATS_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/20/2024 22:36	44902	SCOT_T2	0	0	0	0	0	0	-0.62	-0.65	0	0	0	0	0	0
7/20/2024 22:36	46203	DANV_T2	0	0	0	0	0	0	-1.67	-1.7	0	0	0	0	0	0
7/20/2024 22:36	46801	HEPB_T2	18	27	9	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
7/20/2024 22:36	67605	WARW_T1	2	3	1	0.8	0.37	-0.43	-1.02	-1.05	0	0	0	0	0	0
7/20/2024 22:36	46803	HEPB_T2	4	8	4	0.15	0.17	0.02	0.62	0.61	0	0	0	0	0	0
7/20/2024 22:37	44801	EDAN_T2	0	1	1	0	0.1	0.1	-1.43	-1.43	0	0	0	0	0	0
7/20/2024 22:37	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	-0.62	-0.59	0	0	0	0	0	0
7/20/2024 22:37	52402	GRPA_T2	2	1	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/20/2024 22:37	56803	BENV_T1	0	0	0	0	0	0	-0.43	-0.54	2	2	0	1200	1200	0
7/20/2024 22:37	52002	LING_T2	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/20/2024 22:37	52004	LING_T2	2	2	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
7/20/2024 22:37	56801	BENV_T1	4	5	1	0.75	1.23	0.48	-0.51	-0.52	1	1	0	600	600	0
7/20/2024 22:37	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/20/2024 22:37	43301	WATS_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/20/2024 22:37	46203	DANV_T2	0	0	0	0	0	0	-3.35	-3.4	0	0	0	0	0	0
7/20/2024 22:37	43304	WATS_T2	0	0	0	0	0	0	-2.38	-2.55	0	0	0	0	0	0
7/20/2024 22:38	46203	DANV_T2	0	0	0	0	0	0	-1.67	-1.7	0	0	0	0	0	0
7/20/2024 22:38	43304	WATS_T2	0	0	0	0	0	0	-0.79	-0.85	0	0	0	0	0	0
7/20/2024 22:38	43301	WATS_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/20/2024 22:38	58402	MORO_T1	0	0	0	0	0	0	-0.29	-0.33	2	2	0	1500	1500	0
7/20/2024 22:39	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	-1.24	-1.18	0	0	0	0	0	0
7/20/2024 22:39	52402	GRPA_T2	2	1	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/20/2024 22:39	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/20/2024 22:40	56801	BENV_T1	4	5	1	0.75	1.23	0.48	-0.51	-0.52	1	1	0	600	600	0
7/20/2024 22:41	46803	HEPB_T2	4	8	4	0.15	0.17	0.02	0	0	0	0	0	0	0	0
7/20/2024 22:41	46801	HEPB_T2	18	27	9	0.35	0.3	-0.05	-0.08	0.84	0	0	0	0	0	0
7/20/2024 22:43	21203	ECAR_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
7/20/2024 22:47	43304	WATS_T2	0	0	0	0	0	0	-0.79	-0.85	0	0	0	0	0	0
7/20/2024 22:47	43301	WATS_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/20/2024 22:49	28102	TWLA_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
7/20/2024 22:49	43301	WATS_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/20/2024 22:49	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/20/2024 23:07	67602	WARW_T2	0	0	0	0	0	0	0.53	0.53	2	2	0	1500	1500	0
7/20/2024 23:19	51003	NHAR_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/20/2024 23:19	51004	NHAR_T1	1	1	0	6.2	6.1	-0.1	-1.56	-1.57	0	0	0	0	0	0
7/20/2024 23:19	51002	NHAR_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
7/21/2024 6:38	67805	WLAN_T1	0	0	0	0	0	0	-1.42	-1.41	0	0	0	0	0	0
7/21/2024 6:45	64201	KINZ_T1	4	1	-3	0.43	1	0.57	0	0	0	0	0	0	0	0
7/21/2024 6:45	64204	KINZ_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/21/2024 6:45	64203	KINZ_T1	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
7/21/2024 6:49	22701	MINO_T1	0	0	0	0	0	0	-0.79	-0.77	1	1	0	600	600	0
7/21/2024 6:49	44902	SCOT_T2	0	0	0	0	0	0	-0.83	-0.8	0	0	0	0	0	0
7/21/2024 6:51	44902	SCOT_T2	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
7/21/2024 6:55	67805	WLAN_T1	0	0	0	0	0	0	-1.41	-1.42	0	0	0	0	0	0
7/21/2024 7:01	12605	MACA_T1	0	0	0	0	0	0	-0.8	-0.78	0	0	0	0	0	0
7/21/2024 7:03	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 7:04	12605	MACA_T1	0	0	0	0	0	0	-0.8	-0.78	0	0	0	0	0	0
7/21/2024 7:08	24901	WHHA_T1	1	1	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
7/21/2024 7:10	55102	WERT_T2	0	0	0	0	0	0	-1.3	-1.28	1	1	0	600	600	0
7/21/2024 7:11	60802	BUCK_T2	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
7/21/2024 7:12	12006	HATF_T1	0	0	0	0	0	0	0.38	0.45	0	0	0	0	0	0
7/21/2024 7:15	12601	MACA_T1	0	0	0	0	0	0	0.8	0.84	0	0	0	0	0	0
7/21/2024 7:25	61001	DONV_T1	0	0	0	0	0	0	0.12	0.05	0	0	0	0	0	0
7/21/2024 7:26	29402	BELT_T1	47	48	1	0.61	0.66	0.05	0	0	0	0	0	0	0	0
7/21/2024 7:26	22001	BOHE_T1	96	1	-95	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
7/21/2024 7:26	22003	BOHE_T1	321	243	-78	0.6	0.44	-0.16	0	0	0	0	0	0	0	0
7/21/2024 7:26	22002	BOHE_T1	6	0	-6	0.17	0	-0.17	0.5	0.4	0	0	0	0	0	0
7/21/2024 7:33	58706	ROSE_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
7/21/2024 7:33	58705	ROSE_T2	5	5	0	1.96	2	0.04	0	0	0	0	0	0	0	0
7/21/2024 7:33	58701	ROSE_T2	0	0	0	0	0	0	-1	-0.98	1	1	0	600	600	0
7/21/2024 7:34	13501	MCMI_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
7/21/2024 7:37	58705	ROSE_T2	5	5	0	1.96	2	0.04	0	0	0	0	0	0	0	0
7/21/2024 7:37	58701	ROSE_T2	0	0	0	0	0	0	-0.98	-0.95	1	1	0	600	600	0
7/21/2024 7:37	58706	ROSE_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
7/21/2024 7:43	52404	GRPA_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
7/21/2024 7:43	52403	GRPA_T2	1	3	2	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
7/21/2024 7:44	40701	FFLD_T1	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/21/2024 7:44	40702	FFLD_T1	36	12	-24	0.14	0.11	-0.03	-1.24	-1.14	1	1	0	1200	1200	0
7/21/2024 7:44	40703	FFLD_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/21/2024 7:46	52404	GRPA_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
7/21/2024 7:46	52403	GRPA_T2	1	11	10	0.7	0.77	0.07	0	0	0	0	0	0	0	0
7/21/2024 7:47	16902	MECK_T1	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
7/21/2024 7:47	65401	MARI_T1	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
7/21/2024 7:59	40101	HUNT_T2	0	0	0	0	0	0	-0.57	-0.55	0	0	0	0	0	0
7/21/2024 8:01	64203	KINZ_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
7/21/2024 8:01	64204	KINZ_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/21/2024 8:01	64201	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/21/2024 8:05	58401	MORO_T1	2	1	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/21/2024 8:05	58402	MORO_T1	2	1	-1	1	0	-1	-0.23	-0.26	2	2	0	1500	1500	0
7/21/2024 8:08	24902	WHHA_T1	1	1	0	0.6	0.5	-0.1	0.79	0.83	0	0	0	0	0	0
7/21/2024 8:08	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 8:10	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 8:10	24902	WHHA_T1	1	1	0	0.6	0.5	-0.1	0.79	0.83	0	0	0	0	0	0
7/21/2024 8:14	21203	ECAR_T1	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
7/21/2024 8:18	56501	ROCK_T2	0	3	3	0	0.15	0.15	-0.46	-1.69	0	0	0	0	0	0
7/21/2024 8:19	56501	ROCK_T2	0	3	3	0	0.15	0.15	-1.85	-6.76	0	0	0	0	0	0
7/21/2024 8:21	56501	ROCK_T2	0	3	3	0	0.15	0.15	-0.46	-1.69	0	0	0	0	0	0
7/21/2024 8:23	59102	WALK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/21/2024 8:23	59101	WALK_T2	0	0	0	0	0	0	-0.39	-0.34	0	0	0	0	0	0
7/21/2024 8:23	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 8:24	56501	ROCK_T2	0	3	3	0	0.15	0.15	-1.69	-1.68	0	0	0	0	0	0
7/21/2024 8:36	67605	WARW_T1	0	0	0	0	0	0	-0.91	-0.88	0	0	0	0	0	0
7/21/2024 8:41	60201	ATGL_T2	0	0	0	0	0	0	0.51	0.55	0	0	0	0	0	0
7/21/2024 8:44	63402	HONY_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/21/2024 8:44	63403	HONY_T2	0	0	0	0	0	0	-21.61	-21.61	0	0	0	0	0	0
7/21/2024 8:45	47001	HUGH_T2	3	3	0	7.5	7.93	0.43	-1.53	-1.56	1	1	0	900	900	0
7/21/2024 8:47	13501	MCMI_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
7/21/2024 8:48	47403	PENS_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
7/21/2024 8:48	47401	PENS_T1	3	3	0	1.2	0.73	-0.47	1.13	1.22	0	0	0	0	0	0
7/21/2024 8:49	13503	MCMI_T2	3	4	1	0.13	0.38	0.25	-0.85	-0.81	0	0	0	0	0	0
7/21/2024 8:49	47401	PENS_T1	3	3	0	1.2	0.73	-0.47	1.13	1.22	0	0	0	0	0	0
7/21/2024 8:49	47403	PENS_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
7/21/2024 8:51	47403	PENS_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
7/21/2024 8:51	47401	PENS_T1	3	3	0	1.2	0.73	-0.47	1.22	1.25	0	0	0	0	0	0
7/21/2024 8:52	20403	ASHF_T2	0	0	0	0	0	0	0.41	0.5	0	0	0	0	0	0
7/21/2024 8:52	20401	ASHF_T2	1	2	1	0.4	0.65	0.25	0	0	0	0	0	0	0	0
7/21/2024 8:55	20401	ASHF_T2	1	2	1	0.4	0.65	0.25	0	0	0	0	0	0	0	0
7/21/2024 8:55	20403	ASHF_T2	0	0	0	0	0	0	0.41	0.5	0	0	0	0	0	0
7/21/2024 9:01	47001	HUGH_T2	3	3	0	7.93	7.83	-0.1	-1.56	-1.48	1	1	0	900	900	0
7/21/2024 9:08	56803	BENV_T1	2	3	1	2.15	1.8	-0.35	0	0	0	0	0	0	0	0
7/21/2024 9:08	56801	BENV_T1	0	0	0	0	0	0	-0.56	-0.5	1	1	0	600	600	0
7/21/2024 9:09	56803	BENV_T1	2	3	1	2.15	1.8	-0.35	0	0	0	0	0	0	0	0
7/21/2024 9:09	56801	BENV_T1	0	0	0	0	0	0	-3.34	-2.98	6	6	0	3600	3600	0
7/21/2024 9:10	56803	BENV_T1	2	3	1	2.15	1.8	-0.35	0	0	0	0	0	0	0	0
7/21/2024 9:10	56801	BENV_T1	0	0	0	0	0	0	-0.56	-0.5	1	1	0	600	600	0
7/21/2024 9:11	22002	BOHE_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
7/21/2024 9:11	22003	BOHE_T1	3	4	1	0.8	1	0.2	0	0	0	0	0	0	0	0
7/21/2024 9:12	56801	BENV_T1	0	0	0	0	0	0	-0.56	-0.5	1	1	0	600	600	0
7/21/2024 9:12	56803	BENV_T1	2	3	1	2.15	1.8	-0.35	0.31	-0.24	0	1	1	0	600	600
7/21/2024 9:13	56801	BENV_T1	0	0	0	0	0	0	-0.56	-0.5	1	1	0	600	600	0
7/21/2024 9:13	56803	BENV_T1	2	3	1	2.15	1.8	-0.35	0	0	0	0	0	0	0	0
7/21/2024 9:14	14201	EALL_T1	0	0	0	0	0	0	-0.37	-0.32	0	0	0	0	0	0
7/21/2024 9:19	60502	NMAN_T2	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
7/21/2024 9:20	56504	ROCK_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
7/21/2024 9:20	56501	ROCK_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
7/21/2024 9:21	64403	LAND_T1	0	0	0	0	0	0	-1.77	-1.81	1	1	0	900	900	0
7/21/2024 9:22	60502	NMAN_T2	0	0	0	0	0	0	-0.12	-0.04	0	0	0	0	0	0
7/21/2024 9:22	20403	ASHF_T2	0	0	0	0	0	0	0.59	0.63	0	0	0	0	0	0
7/21/2024 9:22	20401	ASHF_T2	2	4	2	0.65	0.65	0	0	0	0	0	0	0	0	0
7/21/2024 9:22	58006	WCAR_T2	0	0	0	0	0	0	-0.73	-0.65	0	0	0	0	0	0
7/21/2024 9:24	60201	ATGL_T2	0	0	0	0	0	0	0.58	0.63	0	0	0	0	0	0
7/21/2024 9:25	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/21/2024 9:26	20401	ASHF_T2	2	4	2	0.65	0.65	0	0	0	0	0	0	0	0	0
7/21/2024 9:26	20403	ASHF_T2	0	0	0	0	0	0	0.59	0.63	0	0	0	0	0	0
7/21/2024 9:33	48302	ORWI_T2	2	2	0	0.2	0.2	0	-0.41	-0.37	0	0	0	0	0	0
7/21/2024 9:34	41902	REED_T1	2	4	2	0.35	0	-0.35	1.1	1.15	0	0	0	0	0	0
7/21/2024 9:34	48302	ORWI_T2	2	2	0	0.2	0.2	0	-0.41	-0.37	0	0	0	0	0	0
7/21/2024 9:34	41901	REED_T1	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
7/21/2024 9:35	41902	REED_T1	2	4	2	0.35	0	-0.35	1.1	1.15	0	0	0	0	0	0
7/21/2024 9:35	13503	MCMI_T2	11	1	-10	0.29	0.5	0.21	-0.78	-0.73	0	0	0	0	0	0
7/21/2024 9:35	41901	REED_T1	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
7/21/2024 9:36	13503	MCMI_T2	11	1	-10	0.29	0.5	0.21	-0.78	-0.73	0	0	0	0	0	0
7/21/2024 9:41	24902	WHHA_T1	4	30	26	0.8	0.68	-0.12	0.86	0.88	0	0	0	0	0	0
7/21/2024 9:41	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 9:42	29402	BELT_T1	104	201	97	1.13	1.29	0.16	0	0	0	0	0	0	0	0
7/21/2024 9:42	56801	BENV_T1	0	2	2	0	0.6	0.6	-0.42	-0.44	1	1	0	600	600	0
7/21/2024 9:42	56803	BENV_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
7/21/2024 9:43	11805	FRAN_T1	0	0	0	0	0	0	-2.57	-2.51	1	1	0	1200	1200	0
7/21/2024 9:47	16902	MECK_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
7/21/2024 9:49	64101	REFR_T1	4	10	6	0.85	0.83	-0.02	0.66	0.69	0	0	0	0	0	0
7/21/2024 9:50	64101	REFR_T1	4	10	6	0.85	0.83	-0.02	0.33	0.34	0	0	0	0	0	0
7/21/2024 9:51	64101	REFR_T1	4	10	6	0.85	0.83	-0.02	0.69	0.76	0	0	0	0	0	0
7/21/2024 9:52	67203	TEHI_T1	0	3	3	0	0.2	0.2	1.2	1.19	1	1	0	900	900	0
7/21/2024 9:52	64101	REFR_T1	4	10	6	0.85	0.83	-0.02	0.69	0.76	0	0	0	0	0	0
7/21/2024 9:52	67201	TEHI_T1	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
7/21/2024 9:53	64101	REFR_T1	4	10	6	0.85	0.83	-0.02	0.69	0.76	0	0	0	0	0	0
7/21/2024 9:56	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/21/2024 9:56	29402	BELT_T1	199	147	-52	1.3	1.35	0.05	0	0	0	0	0	0	0	0
7/21/2024 9:59	52402	GRPA_T2	5	10	5	0.68	1.43	0.75	0	0	0	0	0	0	0	0
7/21/2024 9:59	52404	GRPA_T2	0	2	2	0	0	0	0.08	0.11	0	0	0	0	0	0
7/21/2024 9:59	52403	GRPA_T2	5	23	18	0.86	0.84	-0.02	0	0	0	0	0	0	0	0
7/21/2024 9:59	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 10:00	67503	WEWI_T2	0	1	1	0	0	0	-0.41	-0.39	0	0	0	0	0	0
7/21/2024 10:00	40505	CRES_T1	3	3	0	3.87	3.63	-0.24	0.61	0.67	0	0	0	0	0	0
7/21/2024 10:00	66901	SHIL_T2	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
7/21/2024 10:00	52403	GRPA_T2	19	19	0	0.75	0.77	0.02	0	0	0	0	0	0	0	0
7/21/2024 10:00	52404	GRPA_T2	0	2	2	0	0	0	0.08	0.11	0	0	0	0	0	0
7/21/2024 10:00	52401	GRPA_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 10:00	64101	REFR_T1	3	10	7	0.83	0.69	-0.14	1.72	1.9	0	0	0	0	0	0
7/21/2024 10:00	11804	FRAN_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 10:00	11805	FRAN_T1	0	0	0	0	0	0	-2.51	-2.55	1	1	0	1200	1200	0
7/21/2024 10:00	52402	GRPA_T2	4	11	7	1.73	0.8	-0.93	0	0	0	0	0	0	0	0
7/21/2024 10:00	58402	MORO_T1	0	3	3	0	0	0	-0.23	-0.21	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/21/2024 10:04	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/21/2024 10:06	22903	HARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/21/2024 10:06	22901	HARW_T1	14	13	-1	0.29	0.49	0.2	-0.54	-0.44	1	1	0	1200	1200	0
7/21/2024 10:06	60502	NMAN_T2	0	0	0	0	0	0	0	0.17	0	0	0	0	0	0
7/21/2024 10:06	64101	REFR_T1	3	10	7	0.83	0.69	-0.14	0.76	0.71	0	0	0	0	0	0
7/21/2024 10:07	24902	WHHA_T1	29	10	-19	0.66	0.8	0.14	0.83	0.32	0	0	0	0	0	0
7/21/2024 10:07	64101	REFR_T1	3	10	7	0.83	0.69	-0.14	0.38	0.35	0	0	0	0	0	0
7/21/2024 10:07	44301	BEAV_T2	0	0	0	0	0	0	-1.28	-1.26	1	1	0	600	600	0
7/21/2024 10:07	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 10:08	47101	MARL_T1	0	10	10	0	0.24	0.24	-0.76	-0.93	0	0	0	0	0	0
7/21/2024 10:08	64101	REFR_T1	3	10	7	0.83	0.69	-0.14	0.38	0.35	0	0	0	0	0	0
7/21/2024 10:08	20403	ASHF_T2	0	0	0	0	0	0	0.7	0.78	0	0	0	0	0	0
7/21/2024 10:08	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 10:08	47104	MARL_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/21/2024 10:08	59202	THOM_T1	4	5	1	0.3	0.34	0.04	0	0	0	0	0	0	0	0
7/21/2024 10:08	20401	ASHF_T2	2	9	7	0.8	1.07	0.27	0	0	0	0	0	0	0	0
7/21/2024 10:08	60502	NMAN_T2	0	0	0	0	0	0	0	0.17	0	0	0	0	0	0
7/21/2024 10:08	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/21/2024 10:09	56803	BENV_T1	1	0	-1	2.3	0	-2.3	0	0	0	0	0	0	0	0
7/21/2024 10:09	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 10:09	47101	MARL_T1	0	10	10	0	0.24	0.24	-0.38	-0.47	0	0	0	0	0	0
7/21/2024 10:09	56801	BENV_T1	2	8	6	0.7	0.26	-0.44	-0.66	-0.59	2	2	0	1200	1200	0
7/21/2024 10:09	29402	BELT_T1	146	125	-21	1.34	1.34	0	0	0	0	0	0	0	0	0
7/21/2024 10:09	47104	MARL_T1	2	0	-2	0.1	0	-0.1	-0.45	-0.49	0	0	0	0	0	0
7/21/2024 10:09	20401	ASHF_T2	2	9	7	0.8	1.07	0.27	0	0	0	0	0	0	0	0
7/21/2024 10:09	20403	ASHF_T2	0	0	0	0	0	0	0.7	0.78	0	0	0	0	0	0
7/21/2024 10:09	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 10:09	24902	WHHA_T1	29	10	-19	0.66	0.8	0.14	0.83	0.32	0	0	0	0	0	0
7/21/2024 10:10	20403	ASHF_T2	0	0	0	0	0	0	0.7	0.78	0	0	0	0	0	0
7/21/2024 10:10	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 10:10	56801	BENV_T1	2	8	6	0.7	0.26	-0.44	-0.33	-0.3	1	1	0	600	600	0
7/21/2024 10:10	20401	ASHF_T2	2	9	7	0.8	1.07	0.27	0	0	0	0	0	0	0	0
7/21/2024 10:10	56803	BENV_T1	1	0	-1	2.3	0	-2.3	0	0	0	0	0	0	0	0
7/21/2024 10:10	11104	EGYP_T1	8	7	-1	0.53	0.48	-0.05	0.73	0.75	0	0	0	0	0	0
7/21/2024 10:10	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 10:10	11102	EGYP_T1	3	4	1	0.97	1.73	0.76	0	0	0	0	0	0	0	0
7/21/2024 10:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/21/2024 10:11	20401	ASHF_T2	2	9	7	0.8	1.07	0.27	0	0	0	0	0	0	0	0
7/21/2024 10:11	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 10:11	20403	ASHF_T2	0	0	0	0	0	0	0.7	0.78	0	0	0	0	0	0
7/21/2024 10:11	29402	BELT_T1	146	125	-21	1.34	1.34	0	0	0	0	0	0	0	0	0
7/21/2024 10:13	56803	BENV_T1	1	0	-1	2.3	0	-2.3	0	0	0	0	0	0	0	0
7/21/2024 10:13	56801	BENV_T1	2	8	6	0.7	0.26	-0.44	-0.66	-0.59	2	2	0	1200	1200	0
7/21/2024 10:13	29402	BELT_T1	146	125	-21	1.34	1.34	0	0	0	0	0	0	0	0	0
7/21/2024 10:14	46801	HEPB_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
7/21/2024 10:14	46803	HEPB_T2	0	0	0	0	0	0	0.59	0.63	0	0	0	0	0	0
7/21/2024 10:14	21203	ECAR_T1	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
7/21/2024 10:15	11507	FREE_T2	2	1	-1	0.35	0.1	-0.25	1.05	0.53	0	0	0	0	0	0
7/21/2024 10:15	64203	KINZ_T1	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
7/21/2024 10:15	64204	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/21/2024 10:15	64201	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/21/2024 10:18	13503	MCMI_T2	2	2	0	0.4	0.5	0.1	-1.44	-1.34	0	0	0	0	0	0
7/21/2024 10:20	56501	ROCK_T2	1	1	0	1.4	0.5	-0.9	-2.7	-2.61	0	0	0	0	0	0
7/21/2024 10:21	67605	WARW_T1	0	1	1	0	0.4	0.4	-0.83	-0.94	0	0	0	0	0	0
7/21/2024 10:21	56501	ROCK_T2	1	1	0	1.4	0.5	-0.9	-1.35	-1.31	0	0	0	0	0	0
7/21/2024 10:22	24902	WHHA_T1	10	2	-8	0.75	0.8	0.05	0.32	0.33	0	0	0	0	0	0
7/21/2024 10:22	67605	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/21/2024 10:22	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 10:22	59102	WALK_T2	1	1	0	0.4	0.9	0.5	0.56	0.57	0	0	0	0	0	0
7/21/2024 10:22	13503	MCMI_T2	2	2	0	0.4	0.5	0.1	-0.67	-0.68	0	0	0	0	0	0
7/21/2024 10:22	67603	WARW_T1	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
7/21/2024 10:22	56501	ROCK_T2	1	1	0	1.4	0.5	-0.9	-2.61	-2.54	0	0	0	0	0	0
7/21/2024 10:23	67203	TEHI_T1	2	3	1	0.15	0.13	-0.02	1.2	1.2	1	1	0	900	900	0
7/21/2024 10:23	67402	WAKE_T2	0	0	0	0	0	0	0.09	0.09	1	1	0	600	600	0
7/21/2024 10:23	56501	ROCK_T2	1	1	0	1.4	0.5	-0.9	-2.61	-2.54	0	0	0	0	0	0
7/21/2024 10:23	67401	WAKE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 10:23	67201	TEHI_T1	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
7/21/2024 10:24	56801	BENV_T1	4	5	1	0.18	0.35	0.17	-0.3	-0.32	1	1	0	600	600	0
7/21/2024 10:24	59101	WALK_T2	0	0	0	0	0	0	-0.18	-0.1	0	0	0	0	0	0
7/21/2024 10:24	59102	WALK_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
7/21/2024 10:24	56803	BENV_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 10:24	67603	WARW_T1	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
7/21/2024 10:24	67605	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/21/2024 10:26	46206	DANV_T2	3	9	6	1	2.03	1.03	0.6	0.59	2	2	0	2100	2100	0
7/21/2024 10:26	56803	BENV_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 10:26	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 10:26	56801	BENV_T1	4	5	1	0.18	0.35	0.17	-0.3	-0.32	1	1	0	600	600	0
7/21/2024 10:27	56801	BENV_T1	4	5	1	0.18	0.35	0.17	-0.3	-0.32	1	1	0	600	600	0
7/21/2024 10:27	56803	BENV_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 10:27	20401	ASHF_T2	3	10	7	1.07	0.7	-0.37	0	0	0	0	0	0	0	0
7/21/2024 10:27	20403	ASHF_T2	0	0	0	0	0	0	0.78	0.83	0	0	0	0	0	0
7/21/2024 10:27	20402	ASHF_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 10:28	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 10:28	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 10:28	52404	GRPA_T2	2	0	-2	0.2	0	-0.2	-0.39	-0.49	0	0	0	0	0	0
7/21/2024 10:28	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	0.02	0.05	1	1	0	900	900	0
7/21/2024 10:28	52403	GRPA_T2	12	25	13	0.88	0.8	-0.08	0	0	0	0	0	0	0	0
7/21/2024 10:28	52402	GRPA_T2	10	8	-2	0.85	0.89	0.04	0	0	0	0	0	0	0	0
7/21/2024 10:28	46206	DANV_T2	3	9	6	1	2.03	1.03	0.6	0.59	2	2	0	2100	2100	0
7/21/2024 10:29	52002	LING_T2	0	0	0	0	0	0	-0.2	-0.17	0	0	0	0	0	0
7/21/2024 10:29	52004	LING_T2	2	2	0	1.6	1.65	0.05	0	0	0	0	0	0	0	0
7/21/2024 10:31	52002	LING_T2	0	0	0	0	0	0	-0.2	-0.17	0	0	0	0	0	0
7/21/2024 10:31	45802	HEGI_T2	46	47	1	1.22	0.92	-0.3	0.24	0.41	0	0	0	0	0	0
7/21/2024 10:31	52403	GRPA_T2	14	29	15	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/21/2024 10:31	47401	PENS_T1	4	3	-1	0.85	0.8	-0.05	0.23	0.21	0	0	0	0	0	0
7/21/2024 10:31	52004	LING_T2	2	2	0	1.35	1.65	0.3	0	0	0	0	0	0	0	0
7/21/2024 10:31	47403	PENS_T1	0	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0
7/21/2024 10:31	52402	GRPA_T2	7	17	10	0.93	0.89	-0.04	0	0	0	0	0	0	0	0
7/21/2024 10:31	52401	GRPA_T2	2	2	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/21/2024 10:31	52404	GRPA_T2	0	0	0	0	0	0	-0.39	-0.49	0	0	0	0	0	0
7/21/2024 10:33	55002	NEWP_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
7/21/2024 10:33	55001	NEWP_T1	2	7	5	0.15	0.3	0.15	0.07	0.07	0	0	0	0	0	0
7/21/2024 10:34	66504	SMAN_T2	2	1	-1	1.1	0.3	-0.8	0	0	0	0	0	0	0	0
7/21/2024 10:34	66502	SMAN_T2	0	1	1	0	0.3	0.3	-0.94	-0.94	0	0	0	0	0	0
7/21/2024 10:37	41902	REED_T1	0	6	6	0	0	0	0.34	0.44	1	1	0	900	900	0
7/21/2024 10:38	66502	SMAN_T2	0	1	1	0	0.3	0.3	-0.94	-0.86	0	0	0	0	0	0
7/21/2024 10:38	56801	BENV_T1	4	4	0	0.33	0.6	0.27	-0.95	-0.78	3	3	0	1800	1800	0
7/21/2024 10:38	41902	REED_T1	0	6	6	0	0	0	0.34	0.44	1	1	0	900	900	0
7/21/2024 10:38	56803	BENV_T1	0	3	3	0	1.45	1.45	0	0	0	0	0	0	0	0
7/21/2024 10:38	66504	SMAN_T2	2	1	-1	1.1	0.3	-0.8	0	0	0	0	0	0	0	0
7/21/2024 10:39	56801	BENV_T1	4	4	0	0.33	0.6	0.27	-0.63	-0.52	2	2	0	1200	1200	0
7/21/2024 10:39	56803	BENV_T1	0	3	3	0	1.45	1.45	0	0	0	0	0	0	0	0
7/21/2024 10:41	11904	FRAN_T1	2	18	16	0.25	0.43	0.18	1.05	1.11	0	0	0	0	0	0
7/21/2024 10:42	54504	ENOL_T2	0	0	0	0	0	0	-1.37	-1.33	1	1	0	600	600	0
7/21/2024 10:42	63304	GREE_T1	0	0	0	0	0	0	-2.17	-2.15	0	0	0	0	0	0
7/21/2024 10:43	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/21/2024 10:43	63304	GREE_T1	0	0	0	0	0	0	-2.17	-2.15	0	0	0	0	0	0
7/21/2024 10:43	29402	BELT_T1	122	101	-21	1.32	1.07	-0.25	0	0	0	0	0	0	0	0
7/21/2024 10:43	56803	BENV_T1	0	3	3	0	1.45	1.45	0	0	0	0	0	0	0	0
7/21/2024 10:43	56801	BENV_T1	4	4	0	0.33	0.6	0.27	-0.32	-0.26	1	1	0	600	600	0
7/21/2024 10:48	40603	PIGR_T1	3	4	1	0.43	0.6	0.17	0	0	0	0	0	0	0	0
7/21/2024 10:48	40602	PIGR_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
7/21/2024 10:48	40601	PIGR_T1	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
7/21/2024 10:51	67605	WARW_T1	1	1	0	0.4	0.4	0	-1.07	-1.01	0	0	0	0	0	0
7/21/2024 10:53	67605	WARW_T1	1	1	0	0.4	0.4	0	-1.07	-1.01	0	0	0	0	0	0
7/21/2024 10:53	16302	ALPA_T2	0	0	0	0	0	0	-0.29	-0.25	0	0	0	0	0	0
7/21/2024 10:54	67605	WARW_T1	1	1	0	0.4	0.4	0	-1.07	-1.01	0	0	0	0	0	0
7/21/2024 10:55	16302	ALPA_T2	0	0	0	0	0	0	-0.59	-0.51	0	0	0	0	0	0
7/21/2024 10:55	67605	WARW_T1	1	1	0	0.4	0.4	0	-3.22	-3.04	0	0	0	0	0	0
7/21/2024 10:56	16302	ALPA_T2	0	0	0	0	0	0	-0.29	-0.25	0	0	0	0	0	0
7/21/2024 10:56	47101	MARL_T1	11	38	27	0.37	0.6	0.23	-0.75	-0.65	0	0	0	0	0	0
7/21/2024 10:57	47101	MARL_T1	11	38	27	0.37	0.6	0.23	-0.75	-0.65	0	0	0	0	0	0
7/21/2024 10:59	47401	PENS_T1	3	3	0	0.67	0.77	0.1	0.2	0.29	0	0	0	0	0	0
7/21/2024 10:59	47403	PENS_T1	1	0	-1	2.1	0	-2.1	0	0	0	0	0	0	0	0
7/21/2024 11:00	52002	LING_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
7/21/2024 11:00	52004	LING_T2	2	2	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
7/21/2024 11:01	52001	LING_T1	0	0	0	0	0	0	-0.53	-0.46	0	0	0	0	0	0
7/21/2024 11:02	47401	PENS_T1	2	4	2	0.8	0.9	0.1	0.2	0.29	0	0	0	0	0	0
7/21/2024 11:02	46801	HEPB_T2	2	2	0	0.7	1.1	0.4	0.1	0.05	0	0	0	0	0	0
7/21/2024 11:03	64305	LINC_T1	1	1	0	0.5	0	-0.5	0.02	0.06	0	0	0	0	0	0
7/21/2024 11:04	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 11:04	66504	SMAN_T2	1	1	0	0.6	0.2	-0.4	0.92	1.03	0	0	0	0	0	0
7/21/2024 11:04	25501	MADI_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/21/2024 11:04	25503	MADI_T1	0	1	1	0	0.2	0.2	-0.58	-0.52	0	0	0	0	0	0
7/21/2024 11:07	66504	SMAN_T2	1	1	0	0.6	0.2	-0.4	0.51	0.57	0	0	0	0	0	0
7/21/2024 11:07	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 11:13	46801	HEPB_T2	2	2	0	0.7	1.1	0.4	0.05	0.13	0	0	0	0	0	0
7/21/2024 11:13	40101	HUNT_T2	5	8	3	0.28	0.49	0.21	-0.3	-0.29	0	0	0	0	0	0
7/21/2024 11:15	52002	LING_T2	4	3	-1	0.35	0.2	-0.15	-0.07	0.02	0	0	0	0	0	0
7/21/2024 11:15	54502	ENOL_T2	0	1	1	0	3.9	3.9	0	0	0	0	0	0	0	0
7/21/2024 11:15	54506	ENOL_T2	0	0	0	0	0	0	-0.29	-0.3	1	1	0	600	600	0
7/21/2024 11:15	52004	LING_T2	2	2	0	1.25	1.4	0.15	0	0	0	0	0	0	0	0
7/21/2024 11:15	63401	HONY_T1	0	0	0	0	0	0	0.37	0.28	0	0	0	0	0	0
7/21/2024 11:15	46801	HEPB_T2	2	2	0	0.75	1.2	0.45	0.05	0.13	0	0	0	0	0	0
7/21/2024 11:17	65001	NEFF_T2	0	0	0	0	0	0	-0.55	-0.41	1	1	0	1200	1200	0
7/21/2024 11:18	57303	MOAL_T2	1	1	0	9	9.1	0.1	0	0	0	0	0	0	0	0
7/21/2024 11:18	52002	LING_T2	4	3	-1	0.35	0.2	-0.15	-0.07	0.02	0	0	0	0	0	0
7/21/2024 11:18	52004	LING_T2	2	2	0	1.25	1.4	0.15	0	0	0	0	0	0	0	0
7/21/2024 11:18	57304	MOAL_T2	10	17	7	0.32	0.45	0.13	-0.17	-0.14	0	0	0	0	0	0
7/21/2024 11:19	52002	LING_T2	4	3	-1	0.35	0.2	-0.15	-0.07	0.02	0	0	0	0	0	0
7/21/2024 11:19	52004	LING_T2	2	2	0	1.25	1.4	0.15	0	0	0	0	0	0	0	0
7/21/2024 11:21	55101	WERT_T1	0	0	0	0	0	0	-1.92	-1.93	3	3	0	2400	2400	0
7/21/2024 11:21	55103	WERT_T1	1	0	-1	7.7	0	-7.7	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/21/2024 11:22	55103	WERT_T1	1	0	-1	7.7	0	-7.7	0	0	0	0	0	0	0	0
7/21/2024 11:22	55101	WERT_T1	0	0	0	0	0	0	-1.93	-1.86	3	3	0	2400	2400	0
7/21/2024 11:22	43304	WATS_T2	1	0	-1	0.2	0	-0.2	-0.71	-0.68	0	0	0	0	0	0
7/21/2024 11:23	55101	WERT_T1	0	0	0	0	0	0	-1.93	-1.86	3	3	0	2400	2400	0
7/21/2024 11:23	55103	WERT_T1	1	0	-1	7.7	0	-7.7	0	0	0	0	0	0	0	0
7/21/2024 11:24	56803	BENV_T1	6	9	3	0.95	0.6	-0.35	-0.01	0	3	3	0	1800	1800	0
7/21/2024 11:24	56801	BENV_T1	2	15	13	0.2	0.62	0.42	0	0	0	0	0	0	0	0
7/21/2024 11:24	43304	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 11:25	11102	EGYP_T1	4	4	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
7/21/2024 11:25	11104	EGYP_T1	16	9	-7	1.26	0.76	-0.5	0.06	0.07	1	1	0	900	900	0
7/21/2024 11:25	56801	BENV_T1	2	15	13	0.2	0.62	0.42	0	0	0	0	0	0	0	0
7/21/2024 11:25	43304	WATS_T2	1	0	-1	0.2	0	-0.2	-0.71	-0.68	0	0	0	0	0	0
7/21/2024 11:25	56803	BENV_T1	6	9	3	0.95	0.6	-0.35	0	0	1	1	0	600	600	0
7/21/2024 11:26	55103	WERT_T1	1	0	-1	7.7	0	-7.7	0	0	0	0	0	0	0	0
7/21/2024 11:26	11102	EGYP_T1	4	4	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
7/21/2024 11:26	55101	WERT_T1	0	0	0	0	0	0	-1.93	-1.86	3	3	0	2400	2400	0
7/21/2024 11:26	11104	EGYP_T1	16	9	-7	1.26	0.76	-0.5	0.06	0.07	1	1	0	900	900	0
7/21/2024 11:27	56803	BENV_T1	6	9	3	0.95	0.6	-0.35	0	0	1	1	0	600	600	0
7/21/2024 11:27	44801	EDAN_T2	1	3	2	1	0.6	-0.4	-1.28	-1.25	0	0	0	0	0	0
7/21/2024 11:27	56801	BENV_T1	2	15	13	0.2	0.62	0.42	0	0	0	0	0	0	0	0
7/21/2024 11:28	59003	MIFF_T1	0	0	0	0	0	0	0.45	0.56	0	0	0	0	0	0
7/21/2024 11:28	59002	MIFF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/21/2024 11:29	44801	EDAN_T2	1	3	2	1	0.6	-0.4	-1.28	-1.25	0	0	0	0	0	0
7/21/2024 11:30	12701	MACU_T1	0	1	1	0	0	0	-0.83	-0.79	1	1	0	1200	1200	0
7/21/2024 11:31	42701	AUGU_T1	16	43	27	0.38	0.46	0.08	0	0	2	2	0	1800	1800	0
7/21/2024 11:32	22903	HARW_T1	14	22	8	0.53	0.52	-0.01	0	0	0	0	0	0	0	0
7/21/2024 11:32	63403	HONY_T2	0	0	0	0	0	0	-21.61	-21.61	0	0	0	0	0	0
7/21/2024 11:32	52002	LING_T2	3	2	-1	0.33	0.2	-0.13	0.02	-0.04	0	0	0	0	0	0
7/21/2024 11:32	15601	NSTR_T2	3	1	-2	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
7/21/2024 11:32	12701	MACU_T1	0	1	1	0	0	0	-0.83	-0.79	1	1	0	1200	1200	0
7/21/2024 11:32	52004	LING_T2	2	2	0	1.3	1.45	0.15	0	0	0	0	0	0	0	0
7/21/2024 11:32	63402	HONY_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/21/2024 11:32	15603	NSTR_T2	0	0	0	0	0	0	-1.08	-1.04	0	0	0	0	0	0
7/21/2024 11:32	22905	HARW_T1	6	11	5	0.75	0.39	-0.36	0	0	0	0	0	0	0	0
7/21/2024 11:32	22901	HARW_T1	18	41	23	0.66	0.77	0.11	-0.26	-0.19	1	1	0	1200	1200	0
7/21/2024 11:33	64302	LINC_T2	2	4	2	0.3	0.53	0.23	1.31	1.34	0	0	0	0	0	0
7/21/2024 11:33	52501	PROG_T1	0	0	0	0	0	0	-0.68	-0.64	1	1	0	300	300	0
7/21/2024 11:33	46302	ROHR_T1	5	4	-1	0.3	0.5	0.2	0.35	0.36	0	0	0	0	0	0
7/21/2024 11:36	13303	ORVI_T1	0	1	1	0	0.1	0.1	1.33	1.4	0	0	0	0	0	0
7/21/2024 11:36	66901	SHIL_T2	0	0	0	0	0	0	-0.9	-0.87	1	1	0	1200	1200	0
7/21/2024 11:40	56801	BENV_T1	7	14	7	0.6	0.67	0.07	-0.74	-0.76	2	2	0	1200	1200	0
7/21/2024 11:40	56803	BENV_T1	9	4	-5	0.87	0.6	-0.27	0	0	0	0	0	0	0	0
7/21/2024 11:41	67801	WLAN_T1	2	4	2	0.2	0	-0.2	-0.54	-1.14	0	0	0	0	0	0
7/21/2024 11:41	67804	WLAN_T1	10	10	0	1.05	1.09	0.04	0	0	0	0	0	0	0	0
7/21/2024 11:41	56803	BENV_T1	9	4	-5	0.87	0.6	-0.27	0	0	0	0	0	0	0	0
7/21/2024 11:41	56801	BENV_T1	7	14	7	0.6	0.67	0.07	-4.42	-4.57	12	12	0	7200	7200	0
7/21/2024 11:41	44801	EDAN_T2	2	2	0	0.85	0.85	0	-1.25	-1.26	0	0	0	0	0	0
7/21/2024 11:43	56801	BENV_T1	7	14	7	0.6	0.67	0.07	-0.74	-0.76	2	2	0	1200	1200	0
7/21/2024 11:43	56803	BENV_T1	9	4	-5	0.87	0.6	-0.27	0	0	0	0	0	0	0	0
7/21/2024 11:43	42701	AUGU_T1	16	43	27	0.38	0.46	0.08	0	0	2	2	0	1800	1800	0
7/21/2024 11:44	52403	GRPA_T2	22	33	11	0.55	0.68	0.13	-0.03	-0.05	0	0	0	0	0	0
7/21/2024 11:44	52004	LING_T2	2	2	0	1.3	1.45	0.15	0.09	0.12	0	0	0	0	0	0
7/21/2024 11:44	59001	MIFF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/21/2024 11:44	59003	MIFF_T1	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
7/21/2024 11:44	52401	GRPA_T2	3	1	-2	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
7/21/2024 11:44	59002	MIFF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/21/2024 11:44	52002	LING_T2	3	2	-1	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
7/21/2024 11:44	52402	GRPA_T2	7	12	5	0.97	0.53	-0.44	0	0	0	0	0	0	0	0
7/21/2024 11:45	25402	LAHA_T2	0	0	0	0	0	0	-0.44	-0.21	0	0	0	0	0	0
7/21/2024 11:45	26401	INOR_T1	2	4	2	3.05	1.98	-1.07	0	0	0	0	0	0	0	0
7/21/2024 11:45	52402	GRPA_T2	9	18	9	0.6	0.55	-0.05	-0.48	-0.48	0	0	0	0	0	0
7/21/2024 11:45	40101	HUNT_T2	38	83	45	0.59	0.46	-0.13	-0.28	-0.24	0	0	0	0	0	0
7/21/2024 11:45	52401	GRPA_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 11:45	52403	GRPA_T2	16	66	50	0.56	0.58	0.02	0	0	0	0	0	0	0	0
7/21/2024 11:45	26402	INOR_T1	0	1	1	0	0	0	-1.5	-1.49	1	1	0	600	600	0
7/21/2024 11:46	64305	LINC_T1	0	1	1	0	0	0	0.1	0.13	0	0	0	0	0	0
7/21/2024 11:46	55001	NEWP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/21/2024 11:46	55002	NEWP_T1	3	1	-2	0.67	2	1.33	0.08	0.07	0	0	0	0	0	0
7/21/2024 11:46	42701	AUGU_T1	27	44	17	0.51	0.45	-0.06	0	0	2	2	0	1800	1800	0
7/21/2024 11:47	55001	NEWP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/21/2024 11:47	52403	GRPA_T2	16	66	50	0.56	0.58	0.02	-0.03	-0.05	0	0	0	0	0	0
7/21/2024 11:47	26402	INOR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 11:47	55002	NEWP_T1	3	1	-2	0.67	2	1.33	0.08	0.07	0	0	0	0	0	0
7/21/2024 11:47	65001	NEFF_T2	0	0	0	0	0	0	-0.4	-0.43	1	1	0	1200	1200	0
7/21/2024 11:47	52402	GRPA_T2	9	18	9	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
7/21/2024 11:47	65003	NEFF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/21/2024 11:47	26401	INOR_T1	2	4	2	3.05	1.98	-1.07	0.99	1.01	0	0	0	0	0	0
7/21/2024 11:47	65004	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/21/2024 11:47	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 11:48	52004	LING_T2	2	2	0	1.4	1.45	0.05	0.09	0.12	0	0	0	0	0	0
7/21/2024 11:48	55001	NEWP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/21/2024 11:48	52002	LING_T2	1	6	5	0.2	0.2	0	0	0	0	0	0	0	0	0
7/21/2024 11:48	55002	NEWP_T1	3	1	-2	0.67	2	1.33	0.08	0.07	0	0	0	0	0	0
7/21/2024 11:49	65901	SAKR_T2	1	1	0	6.4	6.2	-0.2	-0.82	-0.77	2	2	0	1500	1500	0
7/21/2024 11:51	55001	NEWP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/21/2024 11:51	55002	NEWP_T1	3	1	-2	0.67	2	1.33	0.08	0.07	0	0	0	0	0	0
7/21/2024 11:53	55101	WERT_T1	0	0	0	0	0	0	-3.72	-3.68	6	6	0	4800	4800	0
7/21/2024 11:53	55105	WERT_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/21/2024 11:57	63804	HEMP_T1	1	1	0	6.8	6.9	0.1	0.06	0.1	0	0	0	0	0	0
7/21/2024 11:58	63403	HONY_T2	0	0	0	0	0	0	-21.61	-21.61	0	0	0	0	0	0
7/21/2024 12:00	52002	LING_T2	2	29	27	0.3	0.32	0.02	0.13	0.11	0	0	0	0	0	0
7/21/2024 12:00	52004	LING_T2	2	2	0	1.45	1.1	-0.35	0	0	0	0	0	0	0	0
7/21/2024 12:02	63804	HEMP_T1	1	1	0	6.9	6.8	-0.1	0.06	0.1	0	0	0	0	0	0
7/21/2024 12:03	12301	LANA_T2	1	1	0	0.3	0.6	0.3	-0.94	-0.93	1	1	0	1200	1200	0
7/21/2024 12:03	12304	LANA_T2	4	13	9	0.18	0.28	0.1	0	0	0	0	0	0	0	0
7/21/2024 12:03	52004	LING_T2	2	2	0	1.45	1.1	-0.35	0	0	0	0	0	0	0	0
7/21/2024 12:03	12305	LANA_T2	10	14	4	0.92	0.74	-0.18	0	0	0	0	0	0	0	0
7/21/2024 12:03	52002	LING_T2	2	29	27	0.3	0.32	0.02	0.13	0.11	0	0	0	0	0	0
7/21/2024 12:04	14404	SSLA_T1	1	3	2	2.1	1.6	-0.5	0	0	0	0	0	0	0	0
7/21/2024 12:04	14403	SSLA_T1	1	1	0	0.1	1.8	1.7	0.37	0.41	2	2	0	1200	1200	0
7/21/2024 12:05	56504	ROCK_T2	0	8	8	0	0.68	0.68	0	0	0	0	0	0	0	0
7/21/2024 12:05	56501	ROCK_T2	2	3	1	0.4	0.27	-0.13	-2.3	-2.29	0	0	0	0	0	0
7/21/2024 12:06	14705	TREX_T1	0	1	1	0	0	0	0.6	0.64	0	0	0	0	0	0
7/21/2024 12:07	67901	WNHO_T2	5	4	-1	0.86	1.13	0.27	0	0	0	0	0	0	0	0
7/21/2024 12:07	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/21/2024 12:07	56501	ROCK_T2	2	3	1	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
7/21/2024 12:07	56504	ROCK_T2	0	8	8	0	0.68	0.68	0.39	0.42	0	0	0	0	0	0
7/21/2024 12:08	61102	BERK_T5	0	0	0	0	0	0	0.65	-0.32	1	2	1	300	1200	900
7/21/2024 12:08	55101	WERT_T1	0	0	0	0	0	0	-1.84	-1.91	3	3	0	2400	2400	0
7/21/2024 12:08	55105	WERT_T1	1	3	2	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/21/2024 12:09	67602	WARW_T2	0	3	3	0	0	0	0.6	0.99	2	2	0	1500	1500	0
7/21/2024 12:12	61102	BERK_T5	0	0	0	0	0	0	0.65	-0.32	1	2	1	300	1200	900
7/21/2024 12:13	46203	DANV_T2	0	0	0	0	0	0	-1.5	-1.48	0	0	0	0	0	0
7/21/2024 12:13	46204	DANV_T2	8	94	86	0.28	0.3	0.02	0	0	0	0	0	0	0	0
7/21/2024 12:13	46206	DANV_T2	26	36	10	0.6	0.54	-0.06	0	0	0	0	0	0	0	0
7/21/2024 12:15	16902	MECK_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
7/21/2024 12:19	57404	SPAN_T2	1	6	5	0.1	0	-0.1	-0.59	-0.65	1	1	0	1200	1200	0
7/21/2024 12:19	57403	SPAN_T1	5	12	7	0.2	0.47	0.27	0	0	0	0	0	0	0	0
7/21/2024 12:19	57401	SPAN_T1	21	27	6	0.35	0	-0.35	-0.53	-0.61	1	1	0	600	600	0
7/21/2024 12:21	59101	WALK_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
7/21/2024 12:21	14101	TRUM_T2	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
7/21/2024 12:21	59102	WALK_T2	4	2	-2	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/21/2024 12:21	14103	TRUM_T2	18	173	155	0.61	0.66	0.05	0	0	0	0	0	0	0	0
7/21/2024 12:22	67602	WARW_T2	0	17	17	0	0.47	0.47	0.99	1.08	2	2	0	1500	1500	0
7/21/2024 12:24	67602	WARW_T2	0	17	17	0	0.47	0.47	0.99	1.08	2	2	0	1500	1500	0
7/21/2024 12:24	65207	PRIN_T4	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/21/2024 12:24	65206	PRIN_T4	1	0	-1	5.3	0	-5.3	0	0	0	0	0	0	0	0
7/21/2024 12:24	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/21/2024 12:25	67602	WARW_T2	0	17	17	0	0.47	0.47	3.96	4.33	8	8	0	6000	6000	0
7/21/2024 12:25	58003	WCAR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/21/2024 12:25	58001	WCAR_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
7/21/2024 12:26	55105	WERT_T1	1	3	2	0.4	0.8	0.4	0	0	0	0	0	0	0	0
7/21/2024 12:26	67602	WARW_T2	0	17	17	0	0.47	0.47	0.99	1.08	2	2	0	1500	1500	0
7/21/2024 12:26	55101	WERT_T1	0	0	0	0	0	0	-1.91	-1.83	3	3	0	2400	2400	0
7/21/2024 12:27	65205	PRIN_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/21/2024 12:27	67602	WARW_T2	0	17	17	0	0.47	0.47	0.99	1.08	2	2	0	1500	1500	0
7/21/2024 12:30	47001	HUGH_T2	3	5	2	7.57	5.68	-1.89	-1.09	-1.09	1	1	0	900	900	0
7/21/2024 12:31	47001	HUGH_T2	3	5	2	7.57	5.68	-1.89	-1.09	-1.09	1	1	0	900	900	0
7/21/2024 12:32	16902	MECK_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
7/21/2024 12:35	64302	LINC_T2	7	8	1	0.61	0.7	0.09	1.44	1.41	0	0	0	0	0	0
7/21/2024 12:35	14705	TREX_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 12:35	14706	TREX_T1	0	0	0	0	0	0	-0.69	-0.7	2	2	0	2100	2100	0
7/21/2024 12:37	58002	WCAR_T2	4	4	0	3.78	2.03	-1.75	0	0	0	0	0	0	0	0
7/21/2024 12:37	58006	WCAR_T2	0	0	0	0	0	0	-0.42	-0.37	0	0	0	0	0	0
7/21/2024 12:38	65802	RTWN_T2	0	1	1	0	0.7	0.7	-0.39	-0.39	0	0	0	0	0	0
7/21/2024 12:38	65803	RTWN_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
7/21/2024 12:38	56803	BENV_T1	11	14	3	1.06	1.31	0.25	0	0	0	0	0	0	0	0
7/21/2024 12:38	56801	BENV_T1	9	4	-5	0.5	0.53	0.03	-0.7	-0.69	2	2	0	1200	1200	0
7/21/2024 12:39	56801	BENV_T1	9	4	-5	0.5	0.53	0.03	-3.51	-3.46	10	10	0	6000	6000	0
7/21/2024 12:39	56803	BENV_T1	11	14	3	1.06	1.31	0.25	0	0	0	0	0	0	0	0
7/21/2024 12:40	55105	WERT_T1	3	3	0	0.83	0.85	0.02	0.45	0.47	1	1	0	900	900	0
7/21/2024 12:40	56803	BENV_T1	11	14	3	1.06	1.31	0.25	0	0	0	0	0	0	0	0
7/21/2024 12:40	56801	BENV_T1	9	4	-5	0.5	0.53	0.03	-0.7	-0.69	2	2	0	1200	1200	0
7/21/2024 12:40	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 12:41	47101	MARL_T1	121	183	62	0.86	0.92	0.06	-0.2	-0.23	0	0	0	0	0	0
7/21/2024 12:41	67602	WARW_T2	3	18	15	0.47	0.46	-0.01	1.08	1.08	2	2	0	1500	1500	0
7/21/2024 12:42	20403	ASHF_T2	8	0	-8	0.34	0	-0.34	0	0	0	0	0	0	0	0
7/21/2024 12:42	20402	ASHF_T2	9	20	11	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
7/21/2024 12:42	20401	ASHF_T2	18	16	-2	0.87	0.73	-0.14	-0.41	-0.39	0	0	0	0	0	0
7/21/2024 12:43	52404	GRPA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/21/2024 12:43	29402	BELT_T1	38	40	2	0.99	1.14	0.15	0	0	0	0	0	0	0	0
7/21/2024 12:43	52401	GRPA_T2	1	1	0	0.1	0	-0.1	-0.76	-0.8	0	0	0	0	0	0
7/21/2024 12:43	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/21/2024 12:43	52402	GRPA_T2	24	52	28	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/21/2024 12:43	52403	GRPA_T2	18	21	3	0.51	0.85	0.34	0	0	0	0	0	0	0	0
7/21/2024 12:44	40101	HUNT_T2	71	190	119	0.57	0.51	-0.06	-0.19	-0.17	0	0	0	0	0	0
7/21/2024 12:45	52404	GRPA_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/21/2024 12:45	52403	GRPA_T2	8	30	22	0.53	0.63	0.1	0	0	0	0	0	0	0	0
7/21/2024 12:45	52402	GRPA_T2	25	52	27	0.65	0.61	-0.04	0	0	0	0	0	0	0	0
7/21/2024 12:45	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	-0.76	-0.8	0	0	0	0	0	0
7/21/2024 12:46	47001	HUGH_T2	4	5	1	5.68	5.55	-0.13	-1.09	-1	1	1	0	900	900	0
7/21/2024 12:47	47001	HUGH_T2	4	5	1	5.68	5.55	-0.13	-1.09	-1	1	1	0	900	900	0
7/21/2024 12:48	65603	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 12:48	12701	MACU_T1	6	10	4	0.53	0.2	-0.33	-1.38	-1.4	2	2	0	2400	2400	0
7/21/2024 12:48	65604	QVIL_T2	0	1	1	0	0	0	0	0.91	0	0	0	0	0	0
7/21/2024 12:51	67602	WARW_T2	17	12	-5	0.39	0.39	0	1.08	1	2	2	0	1500	1500	0
7/21/2024 12:52	40603	PIGR_T1	2	30	28	0.25	0.47	0.22	-1.15	-1.13	1	1	0	900	900	0
7/21/2024 12:52	40602	PIGR_T1	3	3	0	0.53	0.8	0.27	0	0	0	0	0	0	0	0
7/21/2024 12:52	40601	PIGR_T1	1	2	1	0.7	1.2	0.5	0	0	0	0	0	0	0	0
7/21/2024 12:52	67602	WARW_T2	17	12	-5	0.39	0.39	0	1.08	1	2	2	0	1500	1500	0
7/21/2024 12:53	56801	BENV_T1	1	7	6	0.3	0.4	0.1	-0.69	-0.68	2	2	0	1200	1200	0
7/21/2024 12:53	56803	BENV_T1	12	17	5	1.22	1.12	-0.1	0	0	0	0	0	0	0	0
7/21/2024 12:54	56803	BENV_T1	12	17	5	1.22	1.12	-0.1	0	0	0	0	0	0	0	0
7/21/2024 12:54	46001	BERW_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
7/21/2024 12:54	56801	BENV_T1	1	7	6	0.3	0.4	0.1	-0.69	-0.68	2	2	0	1200	1200	0
7/21/2024 12:55	61302	EARL_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
7/21/2024 12:55	61301	EARL_T1	0	0	0	0	0	0	-0.61	-0.58	1	1	0	900	900	0
7/21/2024 12:55	67602	WARW_T2	17	12	-5	0.39	0.39	0	0	0	0	0	0	0	0	0
7/21/2024 12:55	56803	BENV_T1	12	17	5	1.22	1.12	-0.1	0	0	0	0	0	0	0	0
7/21/2024 12:55	56801	BENV_T1	1	7	6	0.3	0.4	0.1	-3.46	-3.41	10	10	0	6000	6000	0
7/21/2024 12:55	67601	WARW_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
7/21/2024 12:55	41602	CLEV_T1	4	44	40	0.4	0.36	-0.04	0	0	1	1	0	600	600	0
7/21/2024 12:56	67605	WARW_T1	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
7/21/2024 12:56	67603	WARW_T1	0	0	0	0	0	0	-0.43	-0.33	0	0	0	0	0	0
7/21/2024 12:56	56801	BENV_T1	1	7	6	0.3	0.4	0.1	-0.69	-0.68	2	2	0	1200	1200	0
7/21/2024 12:56	56803	BENV_T1	12	17	5	1.22	1.12	-0.1	0	0	0	0	0	0	0	0
7/21/2024 12:57	56803	BENV_T1	12	17	5	1.22	1.12	-0.1	0.21	0.02	2	2	0	1200	1200	0
7/21/2024 12:57	56801	BENV_T1	1	7	6	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/21/2024 12:57	61301	EARL_T1	0	0	0	0	0	0	-0.61	-0.58	1	1	0	900	900	0
7/21/2024 12:57	61302	EARL_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
7/21/2024 12:57	20601	GRWO_T2	3	16	13	0.23	0.36	0.13	0.12	0.14	0	0	0	0	0	0
7/21/2024 12:57	46001	BERW_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
7/21/2024 12:57	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 12:58	46001	BERW_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
7/21/2024 12:58	51802	EBEN_T2	2	3	1	0.4	0	-0.4	-0.34	-0.39	1	1	0	900	900	0
7/21/2024 12:59	20603	GRWO_T2	0	1	1	0	0	0	-0.28	-0.32	1	1	0	900	900	0
7/21/2024 12:59	20601	GRWO_T2	3	16	13	0.23	0.36	0.13	0	0	0	0	0	0	0	0
7/21/2024 13:00	54506	ENOL_T2	0	0	0	0	0	0	-0.35	-0.39	1	1	0	600	600	0
7/21/2024 13:00	28805	LAKE_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
7/21/2024 13:00	54501	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 13:06	67602	WARW_T2	11	9	-2	0.51	0.3	-0.21	1	1.09	2	2	0	1500	1500	0
7/21/2024 13:07	65604	QVIL_T2	0	1	1	0	0	0	0.89	0.9	0	0	0	0	0	0
7/21/2024 13:07	65603	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 13:10	11205	ELHE_T1	16	15	-1	0.77	0.44	-0.33	-1.25	-1.21	1	1	0	1200	1200	0
7/21/2024 13:10	58803	COCO_T1	1	2	1	0.2	0	-0.2	-0.69	-0.69	1	1	0	600	600	0
7/21/2024 13:10	24901	WHHA_T1	3	3	0	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
7/21/2024 13:10	24902	WHHA_T1	20	28	8	0.68	0.65	-0.03	0.38	0.38	0	0	0	0	0	0
7/21/2024 13:11	17401	FOHI_T1	0	2	2	0	0	0	-1.37	-1.37	0	0	0	0	0	0
7/21/2024 13:12	11201	ELHE_T2	1	5	4	0.2	0.2	0	0	0	0	0	0	0	0	0
7/21/2024 13:12	61302	EARL_T1	1	1	0	0.7	0.7	0	-0.55	-0.53	3	3	0	2700	2700	0
7/21/2024 13:12	11202	ELHE_T2	0	0	0	0	0	0	0.42	0.39	1	1	0	1200	1200	0
7/21/2024 13:13	54501	ENOL_T2	0	1	1	0	0	0	-0.87	-0.81	2	2	0	1500	1500	0
7/21/2024 13:13	58803	COCO_T1	1	2	1	0.2	0	-0.2	-0.69	-0.69	1	1	0	600	600	0
7/21/2024 13:15	20601	GRWO_T2	14	57	43	0.58	0.54	-0.04	0.14	0.17	0	0	0	0	0	0
7/21/2024 13:16	25503	MADI_T1	0	2	2	0	0	0	-0.45	-0.4	0	0	0	0	0	0
7/21/2024 13:16	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	-0.87	-0.81	2	2	0	1500	1500	0
7/21/2024 13:18	52002	LING_T2	3	3	0	0.87	0	-0.87	-0.64	-0.61	1	1	0	900	900	0
7/21/2024 13:18	52004	LING_T2	2	2	0	1.3	1.55	0.25	0	0	0	0	0	0	0	0
7/21/2024 13:18	52006	LING_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 13:19	58803	COCO_T1	0	2	2	0	0.2	0.2	-0.69	-0.69	1	1	0	600	600	0
7/21/2024 13:24	60801	BUCK_T1	0	0	0	0	0	0	-0.45	-0.43	1	1	0	600	600	0
7/21/2024 13:25	67602	WARW_T2	9	3	-6	0.38	0.2	-0.18	1.09	1.12	2	2	0	1500	1500	0
7/21/2024 13:26	67605	WARW_T1	2	2	0	0.4	1.1	0.7	-0.59	-0.57	0	0	0	0	0	0
7/21/2024 13:27	61102	BERK_T5	0	0	0	0	0	0	-0.35	-0.39	2	2	0	1200	1200	0
7/21/2024 13:28	42701	AUGU_T1	62	66	4	0.97	0.89	-0.08	0	0	2	2	0	1800	1800	0
7/21/2024 13:35	42901	MIDD_T2	3	4	1	1.7	0.35	-1.35	0	0	0	0	0	0	0	0
7/21/2024 13:35	42902	MIDD_T2	1	7	6	2.3	1	-1.3	-0.88	-0.85	1	1	0	600	600	0
7/21/2024 13:35	41902	REED_T1	44	76	32	0.47	0.43	-0.04	0.41	0.41	1	1	0	900	900	0
7/21/2024 13:35	56503	ROCK_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/21/2024 13:35	42903	MIDD_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
7/21/2024 13:35	56501	ROCK_T2	2	4	2	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
7/21/2024 13:35	56504	ROCK_T2	3	5	2	0.33	0	-0.33	1.08	1.09	0	0	0	0	0	0
7/21/2024 13:36	56503	ROCK_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/21/2024 13:36	56501	ROCK_T2	2	4	2	0.5	0.37	-0.13	-2.12	-2.11	0	0	0	0	0	0
7/21/2024 13:36	14401	SSLA_T1	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/21/2024 13:36	14404	SSLA_T1	1	2	1	2.5	2.9	0.4	0	0	0	0	0	0	0	0
7/21/2024 13:36	14403	SSLA_T1	5	2	-3	0.4	0.5	0.1	-0.25	-0.22	2	3	1	1200	1800	600
7/21/2024 13:36	56504	ROCK_T2	3	5	2	0.33	0	-0.33	0.54	0.55	0	0	0	0	0	0
7/21/2024 13:37	60301	TWVA_T2	0	0	0	0	0	0	-2.29	-2.26	2	2	0	1800	1800	0
7/21/2024 13:38	14705	TREX_T1	1	2	1	0.2	0.3	0.1	0.7	0.73	0	0	0	0	0	0
7/21/2024 13:38	56503	ROCK_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/21/2024 13:38	56501	ROCK_T2	2	4	2	0.5	0.37	-0.13	-2.11	-2.12	0	0	0	0	0	0
7/21/2024 13:38	56504	ROCK_T2	3	5	2	0.33	0	-0.33	0	0	0	0	0	0	0	0
7/21/2024 13:39	56503	ROCK_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/21/2024 13:39	56504	ROCK_T2	3	5	2	0.33	0	-0.33	0.55	0.62	0	0	0	0	0	0
7/21/2024 13:39	14404	SSLA_T1	1	2	1	2.5	2.9	0.4	0	0	0	0	0	0	0	0
7/21/2024 13:39	14705	TREX_T1	1	2	1	0.2	0.3	0.1	0.7	0.73	0	0	0	0	0	0
7/21/2024 13:39	14401	SSLA_T1	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/21/2024 13:39	14403	SSLA_T1	5	2	-3	0.4	0.5	0.1	-0.25	-0.22	3	3	0	1800	1800	0
7/21/2024 13:39	56501	ROCK_T2	2	4	2	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
7/21/2024 13:44	21901	HUMB_T1	2	1	-1	0.55	0	-0.55	-2.79	-2.8	0	0	0	0	0	0
7/21/2024 13:44	51802	EBEN_T2	4	5	1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
7/21/2024 13:44	51804	EBEN_T2	0	0	0	0	0	0	-0.6	-0.58	1	1	0	900	900	0
7/21/2024 13:45	20601	GRWO_T2	15	61	46	0.51	0.45	-0.06	0.17	0.14	0	0	0	0	0	0
7/21/2024 13:49	14404	SSLA_T1	2	1	-1	1.4	3	1.6	0	0	0	0	0	0	0	0
7/21/2024 13:49	14403	SSLA_T1	1	2	1	0.8	0.35	-0.45	-0.25	-0.22	3	3	0	1800	1800	0
7/21/2024 13:49	14401	SSLA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/21/2024 13:50	55408	SHER_T2	2	2	0	1	1.4	0.4	-0.94	-0.94	1	1	0	1200	1200	0
7/21/2024 13:51	44202	POIN_T2	1	1	0	0.2	0	-0.2	-0.54	-0.53	1	1	0	1200	1200	0
7/21/2024 13:51	44203	POIN_T2	4	11	7	0.4	0.43	0.03	0	0	0	0	0	0	0	0
7/21/2024 13:52	67804	WLAN_T1	10	10	0	1.59	1.58	-0.01	0	0	0	0	0	0	0	0
7/21/2024 13:52	67801	WLAN_T1	41	70	29	0.4	0.56	0.16	-1.01	-0.97	0	0	0	0	0	0
7/21/2024 13:52	67805	WLAN_T1	0	5	5	0	0.38	0.38	0	0	0	0	0	0	0	0
7/21/2024 13:54	20403	ASHF_T2	2	2	0	1.1	0	-1.1	-0.05	0.02	0	0	0	0	0	0
7/21/2024 13:54	20402	ASHF_T2	29	44	15	0.97	0.35	-0.62	0	0	0	0	0	0	0	0
7/21/2024 13:54	20401	ASHF_T2	37	50	13	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
7/21/2024 13:55	46001	BERW_T1	0	0	0	0	0	0	0.1	0.15	0	0	0	0	0	0
7/21/2024 13:55	46005	BERW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 13:56	46001	BERW_T1	0	0	0	0	0	0	0.1	0.15	0	0	0	0	0	0
7/21/2024 13:56	46005	BERW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 13:58	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/21/2024 13:58	58803	COCO_T1	1	4	3	0.2	0.1	-0.1	0.64	0.67	1	1	0	600	600	0
7/21/2024 13:58	40101	HUNT_T2	100	130	30	0.61	0.58	-0.03	-0.13	-0.13	0	0	0	0	0	0
7/21/2024 14:01	64701	LITI_T1	10	11	1	1.67	1.36	-0.31	0	0	0	0	0	0	0	0
7/21/2024 14:01	64704	LITI_T1	0	0	0	0	0	0	0.24	0.17	1	1	0	600	600	0
7/21/2024 14:02	40101	HUNT_T2	104	257	153	0.61	0.63	0.02	-0.13	-0.13	0	0	0	0	0	0
7/21/2024 14:05	13105	NHAM_T2	19	35	16	0.61	0.52	-0.09	-1.92	-1.83	1	1	0	1200	1200	0
7/21/2024 14:05	65604	QVIL_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/21/2024 14:05	65603	QVIL_T2	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
7/21/2024 14:05	13103	NHAM_T2	8	8	0	0.95	0.23	-0.72	0	0	0	0	0	0	0	0
7/21/2024 14:05	13102	NHAM_T2	15	5	-10	0.39	0.25	-0.14	0	0	0	0	0	0	0	0
7/21/2024 14:06	65604	QVIL_T2	1	0	-1	0.7	0	-0.7	0.94	0.95	0	0	0	0	0	0
7/21/2024 14:06	66504	SMAN_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
7/21/2024 14:06	66505	SMAN_T2	6	173	167	0.27	0.45	0.18	0.69	0.38	4	4	0	2300	2300	0
7/21/2024 14:07	66504	SMAN_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
7/21/2024 14:07	66505	SMAN_T2	6	173	167	0.27	0.45	0.18	0.69	0.38	4	4	0	2300	2300	0
7/21/2024 14:08	56503	ROCK_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
7/21/2024 14:08	10601	BLGL_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 14:08	10603	BLGL_T1	12	41	29	0.34	0.26	-0.08	0.19	0.19	0	0	0	0	0	0
7/21/2024 14:08	56501	ROCK_T2	3	6	3	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
7/21/2024 14:08	56504	ROCK_T2	1	9	8	0.3	0.5	0.2	0.6	0.64	0	0	0	0	0	0
7/21/2024 14:09	66505	SMAN_T2	6	173	167	0.27	0.45	0.18	0.69	0.38	4	4	0	2300	2300	0
7/21/2024 14:09	66504	SMAN_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
7/21/2024 14:10	20403	ASHF_T2	2	0	-2	0.15	0	-0.15	0.02	-0.03	0	0	0	0	0	0
7/21/2024 14:10	20402	ASHF_T2	42	31	-11	0.51	0.4	-0.11	0	0	0	0	0	0	0	0
7/21/2024 14:10	20401	ASHF_T2	35	51	16	0.56	0.57	0.01	0	0	0	0	0	0	0	0
7/21/2024 14:12	20403	ASHF_T2	2	0	-2	0.15	0	-0.15	0.02	-0.03	0	0	0	0	0	0
7/21/2024 14:12	10601	BLGL_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 14:12	10603	BLGL_T1	12	41	29	0.34	0.26	-0.08	0.19	0.19	0	0	0	0	0	0
7/21/2024 14:12	20401	ASHF_T2	35	51	16	0.56	0.57	0.01	0	0	0	0	0	0	0	0
7/21/2024 14:12	20402	ASHF_T2	42	31	-11	0.51	0.4	-0.11	0	0	0	0	0	0	0	0
7/21/2024 14:19	64101	REFR_T1	15	16	1	2.19	2.09	-0.1	0.13	0.18	0	0	0	0	0	0
7/21/2024 14:23	64101	REFR_T1	15	16	1	2.19	2.09	-0.1	0.18	0.16	0	0	0	0	0	0
7/21/2024 14:25	51802	EBEN_T2	5	7	2	1.64	1.1	-0.54	-0.2	-0.36	1	1	0	900	900	0
7/21/2024 14:28	14201	EALL_T1	5	18	13	0.22	0.62	0.4	-0.32	-0.32	0	0	0	0	0	0
7/21/2024 14:35	56501	ROCK_T2	3	2	-1	0.23	0.3	0.07	2.05	2.02	0	0	0	0	0	0
7/21/2024 14:35	56503	ROCK_T2	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/21/2024 14:35	56504	ROCK_T2	6	11	5	0.57	0.27	-0.3	0	0	0	0	0	0	0	0
7/21/2024 14:39	56803	BENV_T1	13	11	-2	1.16	1.02	-0.14	0	0	0	0	0	0	0	0
7/21/2024 14:39	56801	BENV_T1	6	5	-1	0.63	0.53	-0.1	-1.74	-1.77	6	6	0	3600	3600	0
7/21/2024 14:40	56803	BENV_T1	13	11	-2	1.16	1.02	-0.14	0	0	0	0	0	0	0	0
7/21/2024 14:40	29401	BELT_T1	0	1	1	0	0	0	0	0	1	1	0	900	900	0
7/21/2024 14:40	29402	BELT_T1	68	76	8	1.02	1.03	0.01	0	0	0	0	0	0	0	0
7/21/2024 14:40	56801	BENV_T1	6	5	-1	0.63	0.53	-0.1	-2.32	-2.36	8	8	0	4800	4800	0
7/21/2024 14:42	65205	PRIN_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
7/21/2024 14:42	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/21/2024 14:46	47402	PENS_T1	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
7/21/2024 14:46	21202	ECAR_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/21/2024 14:46	47401	PENS_T1	2	2	0	0.25	0	-0.25	0.48	0.35	0	0	0	0	0	0
7/21/2024 14:46	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 14:46	21206	ECAR_T2	14	23	9	1.7	1.43	-0.27	0.39	0.38	0	0	0	0	0	0
7/21/2024 14:46	47403	PENS_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/21/2024 14:50	54001	SDLE_T1	18	87	69	0.44	0.38	-0.06	0	0	1	1	0	600	600	0
7/21/2024 14:51	54001	SDLE_T1	18	87	69	0.44	0.38	-0.06	0	0	1	1	0	600	600	0
7/21/2024 14:54	20402	ASHF_T2	24	132	108	0.73	0.79	0.06	0	0	0	0	0	0	0	0
7/21/2024 14:54	20403	ASHF_T2	1	6	5	0.7	0.55	-0.15	-0.04	-0.03	0	0	0	0	0	0
7/21/2024 14:54	20401	ASHF_T2	83	44	-39	0.66	0.64	-0.02	0	0	0	0	0	0	0	0
7/21/2024 14:54	49803	UNIV_T1	0	0	0	0	0	0	-1.51	-1.57	0	0	0	0	0	0
7/21/2024 14:56	62102	ELAN_T1	0	0	0	0	0	0	1.07	1.18	0	0	0	0	0	0
7/21/2024 14:57	20403	ASHF_T2	1	6	5	0.7	0.55	-0.15	-0.04	-0.03	0	0	0	0	0	0
7/21/2024 14:57	20402	ASHF_T2	24	132	108	0.73	0.79	0.06	0	0	0	0	0	0	0	0
7/21/2024 14:57	20401	ASHF_T2	83	44	-39	0.66	0.64	-0.02	0	0	0	0	0	0	0	0
7/21/2024 15:06	57404	SPAN_T2	5	4	-1	0.38	0	-0.38	-0.6	-0.55	1	1	0	1200	1200	0
7/21/2024 15:06	54001	SDLE_T1	31	169	138	0.38	0.39	0.01	0	0	1	1	0	600	600	0
7/21/2024 15:08	42701	AUGU_T1	70	80	10	1.3	1.37	0.07	0	0	2	2	0	1800	1800	0
7/21/2024 15:16	20601	GRWO_T2	69	94	25	0.59	0.57	-0.02	0.2	0.19	0	0	0	0	0	0
7/21/2024 15:20	44203	POIN_T2	9	14	5	0.44	0.61	0.17	0	0	0	0	0	0	0	0
7/21/2024 15:20	44202	POIN_T2	0	1	1	0	0	0	-0.51	-0.53	1	1	0	1200	1200	0
7/21/2024 15:24	20402	ASHF_T2	123	146	23	0.65	0.62	-0.03	0	0	0	0	0	0	0	0
7/21/2024 15:24	64101	REFR_T1	12	23	11	3.76	1.81	-1.95	0.19	0.21	0	0	0	0	0	0
7/21/2024 15:24	20403	ASHF_T2	4	56	52	0.95	0.5	-0.45	-0.04	-0.03	0	0	0	0	0	0
7/21/2024 15:24	20401	ASHF_T2	37	40	3	0.69	0.94	0.25	0	0	0	0	0	0	0	0
7/21/2024 15:30	64202	KINZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 15:30	42701	AUGU_T1	74	87	13	1.39	1.43	0.04	0	0	2	2	0	1800	1800	0
7/21/2024 15:30	64201	KINZ_T1	0	1	1	0	0	0	-0.53	-0.54	4	4	0	2100	2100	0
7/21/2024 15:30	64204	KINZ_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/21/2024 15:31	47403	PENS_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/21/2024 15:31	47402	PENS_T1	1	4	3	0.8	1.3	0.5	0	0	0	0	0	0	0	0
7/21/2024 15:31	47401	PENS_T1	0	4	4	0	0.25	0.25	0.38	0.46	0	0	0	0	0	0
7/21/2024 15:32	47401	PENS_T1	0	4	4	0	0.25	0.25	0.38	0.46	0	0	0	0	0	0
7/21/2024 15:32	47403	PENS_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/21/2024 15:32	47402	PENS_T1	1	4	3	0.8	1.3	0.5	0	0	0	0	0	0	0	0
7/21/2024 15:34	64304	LINC_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 15:34	64302	LINC_T2	4	9	5	0.43	0.78	0.35	1.48	1.52	0	0	0	0	0	0
7/21/2024 15:35	64202	KINZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 15:35	64204	KINZ_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/21/2024 15:35	64201	KINZ_T1	0	1	1	0	0	0	-0.53	-0.54	4	4	0	2100	2100	0
7/21/2024 15:36	67605	WARW_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
7/21/2024 15:37	66201	SISP_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/21/2024 15:37	66202	SISP_T2	0	0	0	0	0	0	-0.58	-0.61	0	0	0	0	0	0
7/21/2024 15:37	66203	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 15:38	67605	WARW_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
7/21/2024 15:40	42701	AUGU_T1	74	87	13	1.39	1.43	0.04	0	0	2	2	0	1800	1800	0
7/21/2024 15:48	64203	KINZ_T1	0	0	0	0	0	0	-1.25	-1.28	3	3	0	2100	2100	0
7/21/2024 15:48	65601	QVIL_T2	2	5	3	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/21/2024 15:48	65603	QVIL_T2	1	1	0	0.2	0.1	-0.1	-0.29	-0.32	0	0	0	0	0	0
7/21/2024 15:48	65602	QVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 15:48	64204	KINZ_T1	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/21/2024 15:48	64202	KINZ_T1	2	3	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 15:48	64201	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 15:49	43201	MVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 15:49	43202	MVIL_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
7/21/2024 15:50	43202	MVIL_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
7/21/2024 15:50	43201	MVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 15:51	55408	SHER_T2	2	5	3	0.6	1.3	0.7	-0.94	-0.94	1	1	0	1200	1200	0
7/21/2024 15:51	55402	SHER_T2	1	3	2	0.1	0.8	0.7	0	0	0	0	0	0	0	0
7/21/2024 15:52	65603	QVIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/21/2024 15:52	42201	SHEN_T2	0	0	0	0	0	0	0.28	0.28	1	1	0	600	600	0
7/21/2024 15:52	65601	QVIL_T2	2	5	3	0.5	0	-0.5	0.24	0.26	1	1	0	900	900	0
7/21/2024 15:52	65602	QVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 15:54	42201	SHEN_T2	0	0	0	0	0	0	0.28	0.28	1	1	0	600	600	0
7/21/2024 15:54	64101	REFR_T1	21	14	-7	1.99	1.73	-0.26	0.21	-0.35	0	0	0	0	0	0
7/21/2024 15:55	61102	BERK_T5	0	0	0	0	0	0	-0.33	-0.28	2	2	0	1200	1200	0
7/21/2024 15:55	61101	BERK_T5	0	8	8	0	0.18	0.18	0	0	0	0	0	0	0	0
7/21/2024 15:56	61101	BERK_T5	0	8	8	0	0.18	0.18	0	0	0	0	0	0	0	0
7/21/2024 15:56	61102	BERK_T5	0	0	0	0	0	0	-0.33	-0.28	2	2	0	1200	1200	0
7/21/2024 15:57	61101	BERK_T5	0	8	8	0	0.18	0.18	0	0	0	0	0	0	0	0
7/21/2024 15:57	61102	BERK_T5	0	0	0	0	0	0	-0.33	-0.28	2	2	0	1200	1200	0
7/21/2024 15:58	61101	BERK_T5	0	8	8	0	0.18	0.18	0	0	0	0	0	0	0	0
7/21/2024 15:58	61102	BERK_T5	0	0	0	0	0	0	-1.32	-1.11	8	8	0	4800	4800	0
7/21/2024 15:59	40901	JESH_T1	1	1	0	2.4	2.1	-0.3	0	0	0	0	0	0	0	0
7/21/2024 15:59	40902	JESH_T1	1	0	-1	1	0	-1	-1.85	-1.87	3	3	0	1800	1800	0
7/21/2024 16:00	52401	GRPA_T2	91	119	28	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
7/21/2024 16:00	52402	GRPA_T2	92	88	-4	0.81	0.57	-0.24	0	0	0	0	0	0	0	0
7/21/2024 16:00	52404	GRPA_T2	23	26	3	0.6	0.44	-0.16	0	0	0	0	0	0	0	0
7/21/2024 16:00	52403	GRPA_T2	165	206	41	1.15	1.21	0.06	-0.41	-0.4	0	0	0	0	0	0
7/21/2024 16:01	52006	LING_T2	3	1	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/21/2024 16:01	52004	LING_T2	4	9	5	0.68	0.56	-0.12	0.28	0.31	0	0	0	0	0	0
7/21/2024 16:01	52002	LING_T2	4	22	18	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
7/21/2024 16:02	40101	HUNT_T2	128	349	221	0.5	0.66	0.16	-0.04	-0.09	0	0	0	0	0	0
7/21/2024 16:02	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 16:02	40901	JESH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
7/21/2024 16:03	47401	PENS_T1	3	5	2	0.37	0.55	0.18	0.88	0.76	0	0	0	0	0	0
7/21/2024 16:03	47402	PENS_T1	3	2	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/21/2024 16:04	66103	REAM_T2	0	0	0	0	0	0	0.27	0.27	1	1	0	1200	1200	0
7/21/2024 16:05	66703	STRA_T1	74	105	31	0.52	0.52	0	-0.27	-0.3	0	0	0	0	0	0
7/21/2024 16:05	66702	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 16:05	66701	STRA_T1	16	22	6	1.02	0.89	-0.13	0	0	0	0	0	0	0	0
7/21/2024 16:08	56801	BENV_T1	13	14	1	0.58	0.63	0.05	-0.45	-0.47	2	2	0	1200	1200	0
7/21/2024 16:08	56803	BENV_T1	17	30	13	0.92	0.9	-0.02	0	0	0	0	0	0	0	0
7/21/2024 16:10	46204	DANV_T2	67	118	51	0.46	0.34	-0.12	0	0	0	0	0	0	0	0
7/21/2024 16:10	46205	DANV_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/21/2024 16:10	46206	DANV_T2	60	68	8	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/21/2024 16:10	46203	DANV_T2	1	3	2	0.2	0	-0.2	-2.71	-2.62	0	0	0	0	0	0
7/21/2024 16:11	46206	DANV_T2	60	68	8	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/21/2024 16:11	46203	DANV_T2	1	3	2	0.2	0	-0.2	-1.36	-1.31	0	0	0	0	0	0
7/21/2024 16:11	46205	DANV_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/21/2024 16:11	46204	DANV_T2	67	118	51	0.46	0.34	-0.12	0	0	0	0	0	0	0	0
7/21/2024 16:13	56803	BENV_T1	17	30	13	0.92	0.9	-0.02	0	0	0	0	0	0	0	0
7/21/2024 16:13	47401	PENS_T1	3	5	2	0.37	0.55	0.18	0.76	0.82	0	0	0	0	0	0
7/21/2024 16:13	56801	BENV_T1	13	14	1	0.58	0.63	0.05	-0.91	-0.94	4	4	0	2400	2400	0
7/21/2024 16:13	47402	PENS_T1	3	2	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/21/2024 16:14	46205	DANV_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/21/2024 16:14	46206	DANV_T2	60	68	8	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/21/2024 16:14	46204	DANV_T2	67	118	51	0.46	0.34	-0.12	0	0	0	0	0	0	0	0
7/21/2024 16:14	46203	DANV_T2	1	3	2	0.2	0	-0.2	-1.36	-1.31	0	0	0	0	0	0
7/21/2024 16:15	12305	LANA_T2	25	35	10	0.69	0.7	0.01	0	0	0	0	0	0	0	0
7/21/2024 16:15	12301	LANA_T2	5	4	-1	1.84	4	2.16	0	0	0	0	0	0	0	0
7/21/2024 16:15	12304	LANA_T2	81	67	-14	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
7/21/2024 16:15	12302	LANA_T2	2	1	-1	0.2	0	-0.2	-1.47	-1.5	3	3	0	2700	2700	0
7/21/2024 16:18	47402	PENS_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/21/2024 16:18	47401	PENS_T1	2	6	4	0.65	0.7	0.05	0.38	0.41	0	0	0	0	0	0
7/21/2024 16:25	49803	UNIV_T1	0	4	4	0	0.3	0.3	-1.51	-1.41	0	0	0	0	0	0
7/21/2024 16:25	49804	UNIV_T1	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
7/21/2024 16:26	56801	BENV_T1	12	12	0	0.43	0.8	0.37	-0.47	-0.44	2	2	0	1200	1200	0
7/21/2024 16:26	56803	BENV_T1	22	27	5	0.95	1.06	0.11	0	0	0	0	0	0	0	0
7/21/2024 16:27	58803	COCO_T1	23	22	-1	0.59	0.43	-0.16	0	0	0	0	0	0	0	0
7/21/2024 16:28	56801	BENV_T1	12	12	0	0.43	0.8	0.37	0	0	0	0	0	0	0	0
7/21/2024 16:28	56803	BENV_T1	22	27	5	0.95	1.06	0.11	-0.36	-0.39	1	1	0	600	600	0
7/21/2024 16:29	58803	COCO_T1	23	22	-1	0.59	0.43	-0.16	0	0	0	0	0	0	0	0
7/21/2024 16:30	52403	GRPA_T2	187	166	-21	1.22	1.71	0.49	-0.34	-0.33	0	0	0	0	0	0
7/21/2024 16:30	52404	GRPA_T2	15	69	54	0.45	0.67	0.22	0	0	0	0	0	0	0	0
7/21/2024 16:30	52402	GRPA_T2	85	103	18	0.66	0.66	0	0	0	0	0	0	0	0	0
7/21/2024 16:30	52401	GRPA_T2	71	105	34	0.52	0.49	-0.03	0	0	0	0	0	0	0	0
7/21/2024 16:35	47401	PENS_T1	5	16	11	0.7	0.65	-0.05	0.82	0.76	0	0	0	0	0	0
7/21/2024 16:35	47403	PENS_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
7/21/2024 16:35	47402	PENS_T1	2	5	3	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/21/2024 16:40	11803	FRAN_T2	128	100	-28	0.63	0.56	-0.07	0	0	0	0	0	0	0	0
7/21/2024 16:40	11801	FRAN_T2	34	22	-12	0.9	0.33	-0.57	0.4	0.39	0	0	0	0	0	0
7/21/2024 16:41	49804	UNIV_T1	3	2	-1	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/21/2024 16:41	67602	WARW_T2	47	101	54	0.44	0.41	-0.03	1.27	1.35	2	2	0	1500	1500	0
7/21/2024 16:41	49803	UNIV_T1	3	5	2	0.3	0.4	0.1	1.41	1.49	0	0	0	0	0	0
7/21/2024 16:42	11504	FREE_T1	7	7	0	2.36	1.71	-0.65	-1.47	-1.64	2	2	0	2100	2100	0
7/21/2024 16:42	11505	FREE_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 16:50	42903	MIDD_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/21/2024 16:50	42902	MIDD_T2	28	27	-1	1.6	0.68	-0.92	-0.77	-0.78	1	1	0	600	600	0
7/21/2024 16:50	42901	MIDD_T2	26	24	-2	0.56	0.67	0.11	0	0	0	0	0	0	0	0
7/21/2024 16:54	10603	BLGL_T1	203	185	-18	1.47	1.39	-0.08	-0.44	-0.46	0	0	0	0	0	0
7/21/2024 16:54	10601	BLGL_T1	19	8	-11	0.64	0.35	-0.29	0	0	0	0	0	0	0	0
7/21/2024 16:58	15001	BLMO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 16:58	53902	HALI_T2	1	5	4	2.6	1.65	-0.95	-0.37	-0.39	0	0	0	0	0	0
7/21/2024 16:58	53901	HALI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 16:59	52403	GRPA_T2	165	204	39	1.67	1.74	0.07	-0.34	-0.33	0	0	0	0	0	0
7/21/2024 16:59	52401	GRPA_T2	98	100	2	0.53	0.52	-0.01	0	0	0	0	0	0	0	0
7/21/2024 16:59	52402	GRPA_T2	101	77	-24	0.67	0.62	-0.05	0	0	0	0	0	0	0	0
7/21/2024 16:59	25402	LAHA_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
7/21/2024 16:59	52404	GRPA_T2	67	71	4	0.72	0.63	-0.09	0	0	0	0	0	0	0	0
7/21/2024 17:00	53902	HALI_T2	2	5	3	1.85	1.6	-0.25	-0.37	-0.39	0	0	0	0	0	0
7/21/2024 17:00	53901	HALI_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/21/2024 17:01	12403	MILF_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/21/2024 17:01	53901	HALI_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/21/2024 17:01	12402	MILF_T1	67	82	15	0.87	0.8	-0.07	0.34	0.34	0	0	0	0	0	0
7/21/2024 17:01	12401	MILF_T1	9	35	26	0.44	0.44	0	0	0	0	0	0	0	0	0
7/21/2024 17:01	53902	HALI_T2	2	5	3	1.85	1.6	-0.25	-0.74	-0.77	0	0	0	0	0	0
7/21/2024 17:02	53902	HALI_T2	2	5	3	1.85	1.6	-0.25	-0.37	-0.39	0	0	0	0	0	0
7/21/2024 17:02	53901	HALI_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/21/2024 17:03	43202	MVIL_T2	0	1	1	0	0	0	-0.49	-0.48	0	0	0	0	0	0
7/21/2024 17:03	43201	MVIL_T2	3	6	3	0.53	0.75	0.22	0	0	0	0	0	0	0	0
7/21/2024 17:04	51401	LYKE_T1	0	0	0	0	0	0	1.02	1.06	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/21/2024 17:06	56504	ROCK_T2	25	76	51	1	0.83	-0.17	0.71	0.7	0	0	0	0	0	0
7/21/2024 17:06	56501	ROCK_T2	3	9	6	0.5	0.32	-0.18	0	0	0	0	0	0	0	0
7/21/2024 17:08	56501	ROCK_T2	3	9	6	0.5	0.32	-0.18	0	0	0	0	0	0	0	0
7/21/2024 17:08	15001	BLMO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/21/2024 17:08	56504	ROCK_T2	25	76	51	1	0.83	-0.17	0.7	0.71	0	0	0	0	0	0
7/21/2024 17:10	42902	MIDD_T2	27	28	1	1	0.67	-0.33	-0.7	-0.74	1	1	0	600	600	0
7/21/2024 17:10	42903	MIDD_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
7/21/2024 17:10	42901	MIDD_T2	23	12	-11	0.67	0.87	0.2	0	0	0	0	0	0	0	0
7/21/2024 17:11	20402	ASHF_T2	211	241	30	0.86	0.91	0.05	0	0	0	0	0	0	0	0
7/21/2024 17:11	20403	ASHF_T2	31	90	59	0.47	0.49	0.02	0.12	0.13	0	0	0	0	0	0
7/21/2024 17:11	20401	ASHF_T2	81	98	17	0.61	0.6	-0.01	0	0	0	0	0	0	0	0
7/21/2024 17:16	47001	HUGH_T2	10	12	2	2.24	2.18	-0.06	-0.89	-0.85	1	1	0	900	900	0
7/21/2024 17:16	47002	HUGH_T2	2	2	0	0.6	1	0.4	0	0	0	0	0	0	0	0
7/21/2024 17:17	40903	JESH_T1	4	5	1	0.48	0.25	-0.23	0	0	0	0	0	0	0	0
7/21/2024 17:17	40901	JESH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
7/21/2024 17:17	40902	JESH_T1	0	1	1	0	0	0	-1.81	-1.88	3	3	0	1800	1800	0
7/21/2024 17:19	64201	KINZ_T1	1	3	2	0.1	0.1	0	-0.49	-0.36	4	4	0	2100	2100	0
7/21/2024 17:19	64204	KINZ_T1	3	3	0	0.77	0.55	-0.22	0	0	0	0	0	0	0	0
7/21/2024 17:19	64202	KINZ_T1	2	10	8	0.15	0.58	0.43	0	0	0	0	0	0	0	0
7/21/2024 17:20	51004	NHAR_T1	7	8	1	1.53	1.82	0.29	0	0	0	0	0	0	0	0
7/21/2024 17:20	51003	NHAR_T1	0	1	1	0	0	0	-2.63	-2.35	1	1	0	1200	1200	0
7/21/2024 17:21	66701	STRA_T1	15	18	3	0.86	1.67	0.81	0	0	0	0	0	0	0	0
7/21/2024 17:21	57101	SPHI_T2	6	6	0	0.57	0.23	-0.34	0	0	0	0	0	0	0	0
7/21/2024 17:21	66703	STRA_T1	8	11	3	0.71	0.34	-0.37	-0.56	-0.5	0	0	0	0	0	0
7/21/2024 17:21	57106	SPHI_T2	3	3	0	0.37	0.23	-0.14	0	0	0	0	0	0	0	0
7/21/2024 17:21	57103	SPHI_T2	0	0	0	0	0	0	-0.74	-0.75	1	1	0	600	600	0
7/21/2024 17:29	57101	SPHI_T2	6	6	0	0.57	0.23	-0.34	0	0	0	0	0	0	0	0
7/21/2024 17:29	57104	SPHI_T2	0	0	0	0	0	0	-1.89	-1.88	1	1	0	900	900	0
7/21/2024 17:29	57106	SPHI_T2	3	3	0	0.37	0.23	-0.14	0	0	0	0	0	0	0	0
7/21/2024 17:35	46901	MNTG_T2	0	0	0	0	0	0	-0.51	-0.63	1	1	0	1200	1200	0
7/21/2024 17:35	46903	MNTG_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
7/21/2024 17:44	64201	KINZ_T1	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/21/2024 17:44	64202	KINZ_T1	4	12	8	0.58	0.62	0.04	0	0	0	0	0	0	0	0
7/21/2024 17:44	64203	KINZ_T1	0	0	0	0	0	0	-1.34	-1.26	3	3	0	2100	2100	0
7/21/2024 17:44	64204	KINZ_T1	3	3	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
7/21/2024 17:46	52403	GRPA_T2	86	109	23	1.66	1.75	0.09	0	0	0	0	0	0	0	0
7/21/2024 17:46	52402	GRPA_T2	17	32	15	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
7/21/2024 17:46	52404	GRPA_T2	30	82	52	0.59	1.15	0.56	0	0	0	0	0	0	0	0
7/21/2024 17:46	52401	GRPA_T2	100	67	-33	0.71	0.5	-0.21	-0.58	-0.6	0	0	0	0	0	0
7/21/2024 17:50	12602	MACA_T1	2	4	2	0.1	0.5	0.4	0	0	0	0	0	0	0	0
7/21/2024 17:50	12601	MACA_T1	15	10	-5	1.63	0.35	-1.28	1.63	1.6	0	0	0	0	0	0
7/21/2024 17:50	12606	MACA_T1	70	61	-9	2.11	2.07	-0.04	0	0	0	0	0	0	0	0
7/21/2024 17:50	12605	MACA_T1	7	0	-7	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/21/2024 17:50	12603	MACA_T1	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
7/21/2024 17:52	43301	WATS_T2	2	4	2	0.5	0.8	0.3	0	0	0	0	0	0	0	0
7/21/2024 17:52	43304	WATS_T2	85	71	-14	0.79	0.66	-0.13	-0.96	-0.93	1	1	0	600	600	0
7/21/2024 17:52	59101	WALK_T2	0	0	0	0	0	0	-0.13	-0.26	1	1	0	600	600	0
7/21/2024 17:52	53901	HALI_T2	2	0	-2	0.6	0	-0.6	-0.94	-0.86	0	0	0	0	0	0
7/21/2024 17:52	53902	HALI_T2	10	1	-9	0.64	3.7	3.06	0	0	0	0	0	0	0	0
7/21/2024 17:53	59101	WALK_T2	0	0	0	0	0	0	-0.13	-0.26	1	1	0	600	600	0
7/21/2024 17:55	15001	BLMO_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/21/2024 17:56	53901	HALI_T2	2	0	-2	0.6	0	-0.6	-0.94	-0.86	0	0	0	0	0	0
7/21/2024 17:56	53902	HALI_T2	10	1	-9	0.64	3.7	3.06	0	0	0	0	0	0	0	0
7/21/2024 17:56	59101	WALK_T2	0	0	0	0	0	0	-0.13	-0.26	1	1	0	600	600	0
7/21/2024 18:04	44202	POIN_T2	1	1	0	1.8	0	-1.8	0	0	0	0	0	0	0	0
7/21/2024 18:04	46301	ROHR_T1	11	4	-7	0.32	0	-0.32	0	0	0	0	0	0	0	0
7/21/2024 18:04	46302	ROHR_T1	5	17	12	0.26	0.45	0.19	0.45	0.44	0	0	0	0	0	0
7/21/2024 18:04	44203	POIN_T2	44	57	13	0.59	0.66	0.07	0.85	0.98	2	2	0	1800	1800	0
7/21/2024 18:05	12601	MACA_T1	10	2	-8	1.13	0.3	-0.83	0	0	0	0	0	0	0	0
7/21/2024 18:05	12606	MACA_T1	60	48	-12	1.99	1.86	-0.13	0.78	0.73	1	1	0	900	900	0
7/21/2024 18:05	12602	MACA_T1	4	1	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/21/2024 18:05	12603	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 18:06	53902	HALI_T2	1	1	0	3.3	3.7	0.4	0	0	0	0	0	0	0	0
7/21/2024 18:06	53901	HALI_T2	0	0	0	0	0	0	-0.94	-0.86	0	0	0	0	0	0
7/21/2024 18:07	46301	ROHR_T1	11	4	-7	0.32	0	-0.32	0	0	0	0	0	0	0	0
7/21/2024 18:07	46302	ROHR_T1	5	17	12	0.26	0.45	0.19	0.44	0.45	0	0	0	0	0	0
7/21/2024 18:09	65604	QVIL_T2	7	5	-2	0.81	1.75	0.94	0	0	0	0	0	0	0	0
7/21/2024 18:09	65602	QVIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 18:09	65601	QVIL_T2	3	1	-2	0.53	0	-0.53	0	0	0	0	0	0	0	0
7/21/2024 18:09	65603	QVIL_T2	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
7/21/2024 18:20	66505	SMAN_T2	109	103	-6	0.43	0.41	-0.02	0	0	0	0	0	0	0	0
7/21/2024 18:20	66504	SMAN_T2	31	44	13	0.51	0.37	-0.14	0.18	0.1	0	0	0	0	0	0
7/21/2024 18:20	66503	SMAN_T2	5	4	-1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/21/2024 18:23	44301	BEAV_T2	28	32	4	0.74	0.55	-0.19	-0.83	-0.84	1	1	0	600	600	0
7/21/2024 18:23	66503	SMAN_T2	5	4	-1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/21/2024 18:23	66504	SMAN_T2	31	44	13	0.51	0.37	-0.14	0.1	-0.01	0	0	0	0	0	0
7/21/2024 18:23	66505	SMAN_T2	109	103	-6	0.43	0.41	-0.02	0	0	0	0	0	0	0	0
7/21/2024 18:25	44301	BEAV_T2	28	32	4	0.74	0.55	-0.19	-0.83	-0.84	1	1	0	600	600	0
7/21/2024 18:28	63804	HEMP_T1	1	1	0	7.1	7.1	0	0.26	0.25	0	0	0	0	0	0
7/21/2024 18:37	43304	WATS_T2	24	66	42	0.56	0.6	0.04	-1.03	-1.01	1	1	0	600	600	0
7/21/2024 18:37	43301	WATS_T2	4	2	-2	0.33	0	-0.33	0	0	0	0	0	0	0	0
7/21/2024 18:38	43304	WATS_T2	24	66	42	0.56	0.6	0.04	-1.03	-1.01	1	1	0	600	600	0
7/21/2024 18:38	43301	WATS_T2	4	2	-2	0.33	0	-0.33	0	0	0	0	0	0	0	0
7/21/2024 18:40	43301	WATS_T2	4	2	-2	0.33	0	-0.33	0.03	0.03	1	1	0	900	900	0
7/21/2024 18:40	43304	WATS_T2	24	66	42	0.56	0.6	0.04	-1.03	-1.01	1	1	0	600	600	0
7/21/2024 18:44	11205	ELHE_T1	52	44	-8	0.33	1.4	1.07	0	0	0	0	0	0	0	0
7/21/2024 18:44	11203	ELHE_T1	1	1	0	0.2	0	-0.2	0.25	0.25	0	0	0	0	0	0
7/21/2024 18:48	41901	REED_T1	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/21/2024 18:48	41903	REED_T1	0	0	0	0	0	0	0.17	0.05	1	1	0	1200	1200	0
7/21/2024 18:48	41902	REED_T1	120	29	-91	0.58	0.53	-0.05	0	0	0	0	0	0	0	0
7/21/2024 18:49	40101	HUNT_T2	71	50	-21	0.56	0.36	-0.2	-0.77	-0.79	0	0	0	0	0	0
7/21/2024 18:50	46102	MACI_T1	0	0	0	0	0	0	0.98	1	0	0	0	0	0	0
7/21/2024 18:55	49803	UNIV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/21/2024 18:55	49804	UNIV_T1	1	1	0	1.8	0	-1.8	1.33	1.33	0	0	0	0	0	0
7/21/2024 19:00	43304	WATS_T2	56	24	-32	0.63	0.5	-0.13	-1.01	-1.05	1	1	0	600	600	0
7/21/2024 19:00	52003	LING_T1	2	2	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/21/2024 19:00	63501	HEID_TBK1-2	0	0	0	0	0	0	0.51	0.45	1	1	0	900	900	0
7/21/2024 19:00	52001	LING_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
7/21/2024 19:00	43301	WATS_T2	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
7/21/2024 19:01	64701	LITI_T1	10	10	0	1.34	1.63	0.29	-0.08	-0.13	1	1	0	900	900	0
7/21/2024 19:10	57401	SPAN_T1	7	1	-6	0.77	0.9	0.13	0	0	0	0	0	0	0	0
7/21/2024 19:10	57403	SPAN_T1	0	3	3	0	0.2	0.2	-0.12	-0.15	0	0	0	0	0	0
7/21/2024 19:11	44301	BEAV_T2	16	6	-10	0.69	0.95	0.26	0	0	0	0	0	0	0	0
7/21/2024 19:11	44302	BEAV_T2	0	4	4	0	0.18	0.18	0.41	0.41	0	0	0	0	0	0
7/21/2024 19:15	63803	HEMP_T1	0	0	0	0	0	0	1.06	1.04	0	0	0	0	0	0
7/21/2024 19:15	63804	HEMP_T1	1	1	0	6.9	6.6	-0.3	0	0	0	0	0	0	0	0
7/21/2024 19:16	43301	WATS_T2	1	1	0	2.1	1.9	-0.2	0	0	0	0	0	0	0	0
7/21/2024 19:16	12704	MACU_T1	5	5	0	0.5	0	-0.5	-0.48	-0.47	1	1	0	600	600	0
7/21/2024 19:16	43304	WATS_T2	24	21	-3	0.53	0.49	-0.04	-1.05	-1.06	1	1	0	600	600	0
7/21/2024 19:16	12701	MACU_T1	11	7	-4	0.67	0.34	-0.33	0	0	0	0	0	0	0	0
7/21/2024 19:17	57303	MOAL_T2	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
7/21/2024 19:17	57304	MOAL_T2	16	15	-1	0.49	0.33	-0.16	-0.67	-0.65	0	0	0	0	0	0
7/21/2024 19:18	12704	MACU_T1	5	5	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/21/2024 19:18	12701	MACU_T1	11	7	-4	0.67	0.34	-0.33	0	0	0	0	0	0	0	0
7/21/2024 19:18	48302	ORWI_T2	7	6	-1	0.7	0.58	-0.12	-0.11	-0.13	0	0	0	0	0	0
7/21/2024 19:19	58402	MORO_T1	3	1	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/21/2024 19:19	58401	MORO_T1	7	1	-6	0.53	1.4	0.87	-2.49	-2.52	3	3	0	2100	2100	0
7/21/2024 19:20	57303	MOAL_T2	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
7/21/2024 19:20	57304	MOAL_T2	16	15	-1	0.49	0.33	-0.16	-0.67	-0.65	0	0	0	0	0	0
7/21/2024 19:21	57702	PAXT_T1	10	11	1	0.95	0.49	-0.46	-0.34	-0.26	0	0	0	0	0	0
7/21/2024 19:22	14702	TREX_T2	0	0	0	0	0	0	1.24	1.19	0	0	0	0	0	0
7/21/2024 19:23	67703	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	2	2	0	1800	1800	0
7/21/2024 19:23	14702	TREX_T2	0	0	0	0	0	0	1.24	1.19	0	0	0	0	0	0
7/21/2024 19:24	41602	CLEV_T1	20	12	-8	0.41	0.41	0	0	0	1	1	0	600	600	0
7/21/2024 19:24	60101	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 19:25	60101	COCA_T1	0	0	0	0	0	0	-0.15	-0.18	1	1	0	1200	1200	0
7/21/2024 19:28	61102	BERK_T5	0	0	0	0	0	0	-0.44	-0.46	2	2	0	1200	1200	0
7/21/2024 19:29	62102	ELAN_T1	0	0	0	0	0	0	1	1.01	0	0	0	0	0	0
7/21/2024 19:42	40502	CRES_T2	13	10	-3	0.33	0.18	-0.15	0.05	-0.07	0	0	0	0	0	0
7/21/2024 19:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 19:46	48302	ORWI_T2	5	1	-4	0.58	0	-0.58	-0.1	-0.13	0	0	0	0	0	0
7/21/2024 19:49	44201	POIN_T1	0	0	0	0	0	0	-1.32	-1.39	1	1	0	1200	1200	0
7/21/2024 19:50	55001	NEWP_T1	2	35	33	0.1	0.53	0.43	0.22	0.22	0	0	0	0	0	0
7/21/2024 19:50	55002	NEWP_T1	3	3	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/21/2024 19:51	44201	POIN_T1	0	0	0	0	0	0	-2.79	-2.61	2	2	0	2400	2400	0
7/21/2024 19:52	44201	POIN_T1	0	0	0	0	0	0	-1.39	-1.31	1	1	0	1200	1200	0
7/21/2024 20:00	58803	COCO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 20:05	55001	NEWP_T1	10	44	34	0.56	0.57	0.01	0.22	0.19	0	0	0	0	0	0
7/21/2024 20:05	57404	SPAN_T2	1	0	-1	0.2	0	-0.2	-0.58	-0.68	1	1	0	1200	1200	0
7/21/2024 20:05	55002	NEWP_T1	3	0	-3	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/21/2024 20:11	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	-1.56	-1.59	1	1	0	600	600	0
7/21/2024 20:12	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/21/2024 20:12	42501	ALTA_T2	0	0	0	0	0	0	-0.74	-0.78	1	1	0	600	600	0
7/21/2024 20:24	52501	PROG_T1	1	0	-1	0.2	0	-0.2	-0.63	-0.71	1	1	0	300	300	0
7/21/2024 20:35	45802	HEGI_T2	48	46	-2	1.55	1.36	-0.19	0.15	0.07	0	0	0	0	0	0
7/21/2024 20:57	16302	ALPA_T2	0	0	0	0	0	0	-0.27	-0.32	0	0	0	0	0	0
7/21/2024 20:59	16302	ALPA_T2	0	0	0	0	0	0	-0.53	-0.63	0	0	0	0	0	0
7/21/2024 21:00	16302	ALPA_T2	0	0	0	0	0	0	-0.27	-0.32	0	0	0	0	0	0
7/21/2024 21:03	55002	NEWP_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/21/2024 21:03	55001	NEWP_T1	14	9	-5	0.42	0.58	0.16	0.17	0.14	0	0	0	0	0	0
7/21/2024 21:16	46801	HEPB_T2	5	18	13	0.63	0.3	-0.33	0	0	0	0	0	0	0	0
7/21/2024 21:16	46803	HEPB_T2	1	2	1	0.1	0.2	0.1	0.68	0.68	0	0	0	0	0	0
7/21/2024 21:48	11203	ELHE_T1	0	1	1	0	0	0	1.28	1.23	0	0	0	0	0	0
7/21/2024 21:48	11205	ELHE_T1	0	3	3	0	3	3	0	0	0	0	0	0	0	0
7/21/2024 21:50	55002	NEWP_T1	3	5	2	0.57	0.58	0.01	-0.03	-0.04	0	0	0	0	0	0
7/21/2024 21:50	55001	NEWP_T1	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/21/2024 21:51	55002	NEWP_T1	3	5	2	0.57	0.58	0.01	-0.03	-0.04	0	0	0	0	0	0
7/21/2024 21:51	55001	NEWP_T1	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/21/2024 21:52	55001	NEWP_T1	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/21/2024 21:52	55002	NEWP_T1	3	5	2	0.57	0.58	0.01	-0.04	-0.04	0	0	0	0	0	0
7/21/2024 21:55	55001	NEWP_T1	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/21/2024 21:55	55002	NEWP_T1	3	5	2	0.57	0.58	0.01	-0.04	-0.04	0	0	0	0	0	0
7/21/2024 22:01	63804	HEMP_T1	1	1	0	6	6	0	0.35	0.3	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/21/2024 22:07	12305	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 22:07	12301	LANA_T2	0	0	0	0	0	0	-0.94	-0.97	1	1	0	1200	1200	0
7/21/2024 22:08	55103	WERT_T1	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0	0
7/21/2024 22:08	55105	WERT_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/21/2024 22:08	55101	WERT_T1	0	0	0	0	0	0	-1.84	-1.84	3	3	0	2400	2400	0
7/21/2024 22:09	55101	WERT_T1	0	0	0	0	0	0	-1.84	-1.84	3	3	0	2400	2400	0
7/21/2024 22:09	55103	WERT_T1	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0	0
7/21/2024 22:09	55105	WERT_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/21/2024 22:12	55103	WERT_T1	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0	0
7/21/2024 22:12	12606	MACA_T1	23	29	6	1.18	0.54	-0.64	0.46	0.4	1	1	0	900	900	0
7/21/2024 22:12	55101	WERT_T1	0	0	0	0	0	0	-1.84	-1.84	3	3	0	2400	2400	0
7/21/2024 22:12	12605	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 22:12	55105	WERT_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/21/2024 22:14	65604	QVIL_T2	1	1	0	1.7	1.5	-0.2	0.74	0.72	0	0	0	0	0	0
7/21/2024 22:15	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/21/2024 22:15	52402	GRPA_T2	0	1	1	0	0.3	0.3	-0.49	-0.51	0	0	0	0	0	0
7/21/2024 22:16	10603	BLGL_T1	37	23	-14	0.31	0.31	0	0.23	0.12	0	0	0	0	0	0
7/21/2024 22:16	12402	MILF_T1	2	2	0	0.95	0.95	0	0.21	0.2	0	0	0	0	0	0
7/21/2024 22:17	63403	HONY_T2	0	0	0	0	0	0	-21.61	-21.61	0	0	0	0	0	0
7/21/2024 22:17	63402	HONY_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
7/21/2024 22:19	66901	SHIL_T2	230	235	5	0.34	0.34	0	-1.61	-1.72	1	1	0	1200	1200	0
7/21/2024 22:19	66902	SHIL_T2	23	17	-6	0.15	0.17	0.02	0	0	0	0	0	0	0	0
7/21/2024 22:19	64202	KINZ_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
7/21/2024 22:19	64201	KINZ_T1	0	1	1	0	0.8	0.8	-0.49	-0.49	3	3	0	1500	1500	0
7/21/2024 22:19	66903	SHIL_T2	5	0	-5	0.12	0	-0.12	0	0	0	0	0	0	0	0
7/21/2024 22:19	65001	NEFF_T2	0	0	0	0	0	0	-0.71	-0.75	1	1	0	1200	1200	0
7/21/2024 22:19	64204	KINZ_T1	1	1	0	0.9	1.4	0.5	0	0	0	0	0	0	0	0
7/21/2024 22:20	61102	BERK_T5	0	0	0	0	0	0	0.14	0.1	1	1	0	300	300	0
7/21/2024 22:20	16902	MECK_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
7/21/2024 22:21	11801	FRAN_T2	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
7/21/2024 22:21	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
7/21/2024 22:21	63803	HEMP_T1	0	0	0	0	0	0	0.94	0.98	0	0	0	0	0	0
7/21/2024 22:21	13303	ORVI_T1	0	0	0	0	0	0	1.04	1	0	0	0	0	0	0
7/21/2024 22:22	61301	EARL_T1	0	0	0	0	0	0	-0.62	-0.64	1	1	0	900	900	0
7/21/2024 22:23	64201	KINZ_T1	0	1	1	0	0.8	0.8	-0.49	-0.57	3	3	0	1500	1500	0
7/21/2024 22:23	67605	WARW_T1	3	3	0	0.73	0.67	-0.06	0	0	0	0	0	0	0	0
7/21/2024 22:23	66701	STRA_T1	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
7/21/2024 22:23	64204	KINZ_T1	1	1	0	0.9	1.4	0.5	0	0	0	0	0	0	0	0
7/21/2024 22:23	15603	NSTR_T2	0	0	0	0	0	0	-1.09	-1.1	0	0	0	0	0	0
7/21/2024 22:23	10603	BLGL_T1	37	23	-14	0.31	0.31	0	0.12	0.12	0	0	0	0	0	0
7/21/2024 22:23	64202	KINZ_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
7/21/2024 22:23	66703	STRA_T1	3	0	-3	0.1	0	-0.1	-1.07	0.11	0	0	0	0	0	0
7/21/2024 22:23	67603	WARW_T1	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
7/21/2024 22:24	29401	BELT_T1	0	11	11	0	0.13	0.13	0	0	0	0	0	0	0	0
7/21/2024 22:24	29402	BELT_T1	0	34	34	0	0.24	0.24	0	0	0	0	0	0	0	0
7/21/2024 22:24	11507	FREE_T2	0	0	0	0	0	0	0.74	0.63	1	1	0	600	600	0
7/21/2024 22:24	61102	BERK_T5	0	0	0	0	0	0	0.1	0	1	1	0	300	300	0
7/21/2024 22:24	24902	WHHA_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
7/21/2024 22:24	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 22:25	66505	SMAN_T2	4	1	-3	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/21/2024 22:25	16902	MECK_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
7/21/2024 22:25	61102	BERK_T5	0	0	0	0	0	0	0.1	0	1	1	0	300	300	0
7/21/2024 22:25	66502	SMAN_T2	0	0	0	0	0	0	-0.97	-1	0	0	0	0	0	0
7/21/2024 22:25	20401	ASHF_T2	0	1	1	0	0	0	0.09	0.09	0	0	0	0	0	0
7/21/2024 22:25	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/21/2024 22:26	67603	WARW_T1	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
7/21/2024 22:26	29402	BELT_T1	0	34	34	0	0.24	0.24	0	0	0	0	0	0	0	0
7/21/2024 22:26	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 22:26	61102	BERK_T5	0	0	0	0	0	0	0.1	0	1	1	0	300	300	0
7/21/2024 22:26	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	1.12	0.84	0	0	0	0	0	0
7/21/2024 22:26	66505	SMAN_T2	4	1	-3	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/21/2024 22:26	65603	QVIL_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
7/21/2024 22:26	20603	GRWO_T2	20	20	0	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
7/21/2024 22:26	20601	GRWO_T2	0	0	0	0	0	0	-0.1	-0.15	0	0	0	0	0	0
7/21/2024 22:26	24902	WHHA_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
7/21/2024 22:26	65604	QVIL_T2	1	1	0	1.5	0.3	-1.2	0	0	0	0	0	0	0	0
7/21/2024 22:26	67605	WARW_T1	3	3	0	0.73	0.67	-0.06	0	0	0	0	0	0	0	0
7/21/2024 22:26	13503	MCMI_T2	0	6	6	0	0.1	0.1	-0.73	-0.75	0	0	0	0	0	0
7/21/2024 22:26	29401	BELT_T1	0	11	11	0	0.13	0.13	0	0	1	1	0	900	900	0
7/21/2024 22:26	12701	MACU_T1	0	0	0	0	0	0	-0.89	-0.91	1	1	0	1200	1200	0
7/21/2024 22:27	29401	BELT_T1	0	11	11	0	0.13	0.13	0	0	1	1	0	900	900	0
7/21/2024 22:27	11102	EGYP_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/21/2024 22:27	25402	LAHA_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
7/21/2024 22:27	66502	SMAN_T2	0	0	0	0	0	0	-0.97	-1	0	0	0	0	0	0
7/21/2024 22:27	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 22:27	29402	BELT_T1	0	34	34	0	0.24	0.24	0	0	0	0	0	0	0	0
7/21/2024 22:27	65604	QVIL_T2	1	1	0	1.5	0.3	-1.2	0	0	0	0	0	0	0	0
7/21/2024 22:27	65603	QVIL_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
7/21/2024 22:27	66505	SMAN_T2	4	1	-3	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/21/2024 22:27	12704	MACU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 22:27	11104	EGYP_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
7/21/2024 22:27	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/21/2024 22:28	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/21/2024 22:28	22901	HARW_T1	0	1	1	0	0	0	-0.49	-0.5	1	1	0	1200	1200	0
7/21/2024 22:28	52004	LING_T2	2	2	0	2.3	2.15	-0.15	0.09	0.05	0	0	0	0	0	0
7/21/2024 22:28	13503	MCMI_T2	0	6	6	0	0.1	0.1	-0.73	-0.75	0	0	0	0	0	0
7/21/2024 22:28	29402	BELT_T1	0	34	34	0	0.24	0.24	0	0	0	0	0	0	0	0
7/21/2024 22:28	66505	SMAN_T2	4	1	-3	0.8	0	-0.8	0.14	0.15	3	3	0	2100	2100	0
7/21/2024 22:28	22905	HARW_T1	0	15	15	0	0.27	0.27	0	0	0	0	0	0	0	0
7/21/2024 22:28	12302	LANA_T2	0	0	0	0	0	0	-2.16	-2.2	3	3	0	2700	2700	0
7/21/2024 22:28	67203	TEHI_T1	0	0	0	0	0	0	1.48	1.67	1	1	0	900	900	0
7/21/2024 22:28	22903	HARW_T1	9	2	-7	0.43	0	-0.43	0	0	0	0	0	0	0	0
7/21/2024 22:28	64304	LINC_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
7/21/2024 22:28	64302	LINC_T2	1	0	-1	0.1	0	-0.1	1.17	1.15	0	0	0	0	0	0
7/21/2024 22:28	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.15	0	0	0	0	0	0
7/21/2024 22:28	29401	BELT_T1	0	11	11	0	0.13	0.13	0	0	0	0	0	0	0	0
7/21/2024 22:29	65205	PRIN_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
7/21/2024 22:29	11504	FREE_T1	0	0	0	0	0	0	-1.99	-2.04	2	2	0	2100	2100	0
7/21/2024 22:29	47101	MARL_T1	23	22	-1	1.16	0.91	-0.25	-0.47	-0.47	0	0	0	0	0	0
7/21/2024 22:29	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 22:29	20403	ASHF_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
7/21/2024 22:30	24902	WHHA_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
7/21/2024 22:30	14702	TREX_T2	0	0	0	0	0	0	0.92	0.92	0	0	0	0	0	0
7/21/2024 22:30	12601	MACA_T1	0	0	0	0	0	0	1.19	1.11	0	0	0	0	0	0
7/21/2024 22:30	61102	BERK_T5	0	0	0	0	0	0	0.1	0	1	1	0	300	300	0
7/21/2024 22:30	63501	HEID_TBK1-2	0	1	1	0	0.4	0.4	0.19	0.02	1	1	0	900	900	0
7/21/2024 22:30	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 22:30	12606	MACA_T1	14	21	7	1.5	0.15	-1.35	0	0	0	0	0	0	0	0
7/21/2024 22:31	22903	HARW_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/21/2024 22:31	57303	MOAL_T2	1	1	0	7.6	7.5	-0.1	0	0	0	0	0	0	0	0
7/21/2024 22:31	26402	INOR_T1	2	7	5	0.1	0.14	0.04	0	0	0	0	0	0	0	0
7/21/2024 22:31	52004	LING_T2	2	2	0	1.85	2.2	0.35	0	0	0	0	0	0	0	0
7/21/2024 22:31	65604	QVIL_T2	1	1	0	1.8	0.3	-1.5	0	0	0	0	0	0	0	0
7/21/2024 22:31	61102	BERK_T5	0	0	0	0	0	0	0.21	0	2	2	0	600	600	0
7/21/2024 22:31	11102	EGYP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/21/2024 22:31	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.15	0	0	0	0	0	0
7/21/2024 22:31	14404	SSLA_T1	1	1	0	3.7	3.8	0.1	0	0	0	0	0	0	0	0
7/21/2024 22:31	65601	QVIL_T2	0	0	0	0	0	0	-0.37	-0.41	1	1	0	900	900	0
7/21/2024 22:31	20401	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 22:31	22905	HARW_T1	15	19	4	0.75	0.28	-0.47	0	0	0	0	0	0	0	0
7/21/2024 22:31	63304	GREE_T1	0	0	0	0	0	0	-2.55	-2.59	0	0	0	0	0	0
7/21/2024 22:31	57304	MOAL_T2	0	0	0	0	0	0	-0.2	-0.27	0	0	0	0	0	0
7/21/2024 22:31	52002	LING_T2	0	0	0	0	0	0	-0.17	-0.11	0	0	0	0	0	0
7/21/2024 22:31	20403	ASHF_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
7/21/2024 22:31	26401	INOR_T1	1	1	0	8.6	9	0.4	0.8	0.77	0	0	0	0	0	0
7/21/2024 22:31	14403	SSLA_T1	0	0	0	0	0	0	0.34	0.29	1	1	0	600	600	0
7/21/2024 22:31	22901	HARW_T1	1	1	0	0.8	0	-0.8	-0.49	-0.5	1	1	0	1200	1200	0
7/21/2024 22:31	11104	EGYP_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
7/21/2024 22:32	29402	BELT_T1	0	81	81	0	0.36	0.36	0	0	0	0	0	0	0	0
7/21/2024 22:32	67605	WARW_T1	3	3	0	0.67	0.63	-0.04	-0.95	-0.92	0	0	0	0	0	0
7/21/2024 22:32	10603	BLGL_T1	13	17	4	0.31	0	-0.31	0.12	0.12	0	0	0	0	0	0
7/21/2024 22:32	29401	BELT_T1	1	11	10	0.1	0.13	0.03	0	0	1	1	0	900	900	0
7/21/2024 22:32	66505	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/21/2024 22:32	20603	GRWO_T2	20	7	-13	0.2	0.16	-0.04	-0.38	-0.41	1	1	0	900	900	0
7/21/2024 22:32	61102	BERK_T5	0	0	0	0	0	0	0.1	0	1	1	0	300	300	0
7/21/2024 22:32	48302	ORWI_T2	2	2	0	1.5	1.6	0.1	-0.75	-0.79	0	0	0	0	0	0
7/21/2024 22:32	66504	SMAN_T2	0	0	0	0	0	0	0.56	0.42	0	0	0	0	0	0
7/21/2024 22:33	21206	ECAR_T2	6	1	-5	1.88	8.3	6.42	0.28	0.24	0	0	0	0	0	0
7/21/2024 22:33	53903	HALI_T2	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
7/21/2024 22:33	53902	HALI_T2	1	1	0	4.4	4.9	0.5	-0.65	-0.67	0	0	0	0	0	0
7/21/2024 22:33	42201	SHEN_T2	2	2	0	0.1	0.2	0.1	0.06	0.06	1	1	0	600	600	0
7/21/2024 22:33	21204	ECAR_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/21/2024 22:33	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.15	0	0	0	0	0	0
7/21/2024 22:33	67605	WARW_T1	3	3	0	0.67	0.63	-0.04	-1.9	-1.85	0	0	0	0	0	0
7/21/2024 22:33	47101	MARL_T1	22	13	-9	0.85	0.42	-0.43	-0.47	-0.47	0	0	0	0	0	0
7/21/2024 22:33	52004	LING_T2	2	2	0	1.85	2.2	0.35	0	0	0	0	0	0	0	0
7/21/2024 22:33	60504	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 22:33	52002	LING_T2	0	0	0	0	0	0	-0.17	-0.11	0	0	0	0	0	0
7/21/2024 22:33	60502	NMAN_T2	0	0	0	0	0	0	0.18	0.1	0	0	0	0	0	0
7/21/2024 22:33	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/21/2024 22:33	40101	HUNT_T2	0	0	0	0	0	0	-1.05	-0.45	0	0	0	0	0	0
7/21/2024 22:33	46203	DANV_T2	0	0	0	0	0	0	-1.67	-1.68	0	0	0	0	0	0
7/21/2024 22:34	66505	SMAN_T2	1	0	-1	0.3	0	-0.3	0.14	0.15	3	3	0	2100	2100	0
7/21/2024 22:34	51402	LYKE_T1	35	0	-35	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/21/2024 22:34	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/21/2024 22:34	42501	ALTA_T2	0	0	0	0	0	0	-0.86	-0.89	1	1	0	600	600	0
7/21/2024 22:34	56504	ROCK_T2	0	0	0	0	0	0	0.21	0.25	0	0	0	0	0	0
7/21/2024 22:34	47101	MARL_T1	22	13	-9	0.85	0.42	-0.43	-0.47	-0.47	0	0	0	0	0	0
7/21/2024 22:34	60101	COCA_T1	0	0	0	0	0	0	0.81	0.82	0	0	0	0	0	0
7/21/2024 22:34	51804	EBEN_T2	0	0	0	0	0	0	-0.89	-0.93	1	1	0	900	900	0
7/21/2024 22:34	64101	REFR_T1	0	0	0	0	0	0	-0.32	-0.45	0	0	0	0	0	0
7/21/2024 22:34	26401	INOR_T1	1	1	0	8.6	9	0.4	0	0	0	0	0	0	0	0
7/21/2024 22:34	57403	SPAN_T1	0	0	0	0	0	0	0.42	0.36	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/21/2024 22:34	65604	QVIL_T2	1	1	0	1.8	0.3	-1.5	0.72	0.68	0	0	0	0	0	0
7/21/2024 22:34	51401	LYKE_T1	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
7/21/2024 22:34	56501	ROCK_T2	51	23	-28	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
7/21/2024 22:34	20401	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 22:34	20403	ASHF_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
7/21/2024 22:34	51802	EBEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 22:34	41903	REED_T1	0	0	0	0	0	0	-0.31	-0.28	1	1	0	1200	1200	0
7/21/2024 22:34	26402	INOR_T1	2	7	5	0.1	0.14	0.04	-1.18	-1.18	0	0	0	0	0	0
7/21/2024 22:34	67602	WARW_T2	0	0	0	0	0	0	0.79	0.42	2	2	0	1500	1500	0
7/21/2024 22:35	60803	BUCK_T1	6	13	7	0.15	0.33	0.18	0	0	0	0	0	0	0	0
7/21/2024 22:35	14404	SSLA_T1	1	1	0	3.7	3.8	0.1	0	0	0	0	0	0	0	0
7/21/2024 22:35	60801	BUCK_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
7/21/2024 22:35	52001	LING_T1	0	0	0	0	0	0	-0.48	-0.52	0	0	0	0	0	0
7/21/2024 22:35	67605	WARW_T1	3	3	0	0.67	0.63	-0.04	-0.95	-0.92	0	0	0	0	0	0
7/21/2024 22:35	20603	GRWO_T2	20	7	-13	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
7/21/2024 22:35	46001	BERW_T1	0	0	0	0	0	0	1.97	1.95	0	0	0	0	0	0
7/21/2024 22:35	52003	LING_T1	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
7/21/2024 22:35	20401	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 22:35	56501	ROCK_T2	51	23	-28	0.18	0.15	-0.03	-5.13	-5.23	0	0	0	0	0	0
7/21/2024 22:35	58803	COCO_T1	1	1	0	1.3	1.2	-0.1	-2.36	-2.34	2	2	0	1200	1200	0
7/21/2024 22:35	67602	WARW_T2	0	0	0	0	0	0	0.79	0.42	2	2	0	1500	1500	0
7/21/2024 22:35	55408	SHER_T2	1	1	0	1.8	2.1	0.3	-0.94	-0.94	1	1	0	1200	1200	0
7/21/2024 22:35	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.15	0	0	0	0	0	0
7/21/2024 22:35	46206	DANV_T2	0	0	0	0	0	0	0.57	0.52	2	2	0	2100	2100	0
7/21/2024 22:35	52004	LING_T2	2	2	0	1.85	2.2	0.35	0.09	0.05	0	0	0	0	0	0
7/21/2024 22:35	20601	GRWO_T2	0	0	0	0	0	0	-0.1	-0.15	0	0	0	0	0	0
7/21/2024 22:35	20403	ASHF_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
7/21/2024 22:35	14403	SSLA_T1	0	0	0	0	0	0	0.69	0.59	2	2	0	1200	1200	0
7/21/2024 22:35	67201	TEHI_T1	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
7/21/2024 22:36	40502	CRES_T2	11	14	3	0.25	0.22	-0.03	-0.57	-0.58	0	0	0	0	0	0
7/21/2024 22:36	65802	RTWN_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
7/21/2024 22:36	40101	HUNT_T2	0	0	0	0	0	0	-1.05	-0.45	0	0	0	0	0	0
7/21/2024 22:36	20403	ASHF_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
7/21/2024 22:36	60502	NMAN_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
7/21/2024 22:36	12701	MACU_T1	0	0	0	0	0	0	-1.83	-1.82	2	2	0	2400	2400	0
7/21/2024 22:36	66505	SMAN_T2	1	0	-1	0.3	0	-0.3	0.15	0.13	3	3	0	2100	2100	0
7/21/2024 22:36	60504	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 22:36	44302	BEAV_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
7/21/2024 22:36	64202	KINZ_T1	1	3	2	0.2	0.47	0.27	0	0	0	0	0	0	0	0
7/21/2024 22:36	59101	WALK_T2	0	0	0	0	0	0	-0.35	-0.4	0	0	0	0	0	0
7/21/2024 22:36	64203	KINZ_T1	0	0	0	0	0	0	0.15	0.11	1	1	0	600	600	0
7/21/2024 22:36	46001	BERW_T1	0	0	0	0	0	0	0.97	0.93	0	0	0	0	0	0
7/21/2024 22:36	20401	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 22:36	58803	COCO_T1	1	1	0	1.3	1.2	-0.1	-1.18	-1.17	1	1	0	600	600	0
7/21/2024 22:36	64204	KINZ_T1	1	1	0	0.8	1.4	0.6	0	0	0	0	0	0	0	0
7/21/2024 22:36	64201	KINZ_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
7/21/2024 22:36	56501	ROCK_T2	51	23	-28	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
7/21/2024 22:36	56803	BENV_T1	0	0	0	0	0	0	-0.45	-0.43	2	2	0	1200	1200	0
7/21/2024 22:36	46102	MACI_T1	0	0	0	0	0	0	0.93	0.93	0	0	0	0	0	0
7/21/2024 22:36	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/21/2024 22:36	40601	PIGR_T1	0	0	0	0	0	0	-0.65	-0.58	0	0	0	0	0	0
7/21/2024 22:36	67906	WNHO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/21/2024 22:36	67605	WARW_T1	3	3	0	0.67	0.63	-0.04	-0.95	-0.92	0	0	0	0	0	0
7/21/2024 22:36	56504	ROCK_T2	0	0	0	0	0	0	0.21	0.25	0	0	0	0	0	0
7/21/2024 22:36	67901	WNHO_T2	53	86	33	0.26	0.37	0.11	0	0	0	0	0	0	0	0
7/21/2024 22:36	41902	REED_T1	0	0	0	0	0	0	0.13	0.09	1	1	0	900	900	0
7/21/2024 22:36	56803	BENV_T1	5	6	1	0.7	0.85	0.15	-0.92	-0.96	2	2	0	1200	1200	0
7/21/2024 22:36	11804	FRAN_T1	11	11	0	0.45	0.24	-0.21	0.26	0.2	0	0	0	0	0	0
7/21/2024 22:36	40501	CRES_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/21/2024 22:37	47401	PENS_T1	0	0	0	0	0	0	1.15	1.19	0	0	0	0	0	0
7/21/2024 22:37	66504	SMAN_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
7/21/2024 22:37	63401	HONY_T1	0	0	0	0	0	0	0.46	0.53	0	0	0	0	0	0
7/21/2024 22:37	64101	REFR_T1	0	0	0	0	0	0	-0.45	-0.59	0	0	0	0	0	0
7/21/2024 22:37	11104	EGYP_T1	0	0	0	0	0	0	0.59	0.51	0	0	0	0	0	0
7/21/2024 22:37	57106	SPHI_T2	3	3	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
7/21/2024 22:37	67703	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	2	2	0	1800	1800	0
7/21/2024 22:37	61102	BERK_T5	0	0	0	0	0	0	0	0.01	1	1	0	300	300	0
7/21/2024 22:37	67602	WARW_T2	0	0	0	0	0	0	0.42	0.37	2	2	0	1500	1500	0
7/21/2024 22:37	63304	GREE_T1	0	0	0	0	0	0	-2.59	-2.62	0	0	0	0	0	0
7/21/2024 22:37	25503	MADI_T1	59	80	21	0.21	0.25	0.04	-0.72	-0.75	0	0	0	0	0	0
7/21/2024 22:37	47001	HUGH_T2	3	3	0	7.23	8	0.77	-1.49	-1.56	1	1	0	900	900	0
7/21/2024 22:37	44202	POIN_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/21/2024 22:37	57104	SPHI_T2	0	0	0	0	0	0	-1.27	-1.37	1	1	0	900	900	0
7/21/2024 22:37	42701	AUGU_T1	1	1	0	0.4	0	-0.4	0	0	2	2	0	1800	1800	0
7/21/2024 22:37	67804	WLAN_T1	8	8	0	0.26	0.16	-0.1	0	0	0	0	0	0	0	0
7/21/2024 22:37	56501	ROCK_T2	51	23	-28	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
7/21/2024 22:37	57404	SPAN_T2	0	0	0	0	0	0	-0.94	-0.98	1	1	0	1200	1200	0
7/21/2024 22:37	66505	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/21/2024 22:37	57101	SPHI_T2	6	0	0	1.1	1.07	-0.03	0	0	0	0	0	0	0	0
7/21/2024 22:37	46302	ROHR_T1	4	4	0	0.93	1.35	0.42	0.27	0.26	0	0	0	0	0	0
7/21/2024 22:37	46001	BERW_T1	0	0	0	0	0	0	0.97	0.93	0	0	0	0	0	0
7/21/2024 22:37	56504	ROCK_T2	0	0	0	0	0	0	1	0.58	0	0	0	0	0	0
7/21/2024 22:37	56801	BENV_T1	5	6	1	0.7	0.85	0.15	-0.96	-0.39	2	1	-1	1200	600	-600
7/21/2024 22:37	67801	WLAN_T1	0	3	3	0	0	0	-0.9	-0.9	0	0	0	0	0	0
7/21/2024 22:37	44203	POIN_T2	0	0	0	0	0	0	0.05	0.05	1	1	0	900	900	0
7/21/2024 22:37	47002	HUGH_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/21/2024 22:37	11102	EGYP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/21/2024 22:38	56801	BENV_T1	5	6	1	0.7	0.85	0.15	-2.89	-1.17	6	3	-3	3600	1800	-1800
7/21/2024 22:38	46203	DANV_T2	0	0	0	0	0	0	-3.36	-3.55	0	0	0	0	0	0
7/21/2024 22:38	57106	SPHI_T2	3	3	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
7/21/2024 22:38	52002	LING_T2	0	0	0	0	0	0	-0.22	-0.4	0	0	0	0	0	0
7/21/2024 22:38	40101	HUNT_T2	0	0	0	0	0	0	-0.45	-0.5	0	0	0	0	0	0
7/21/2024 22:38	54001	SDLE_T1	1	0	-1	0.2	0	-0.2	0	0	1	1	0	600	600	0
7/21/2024 22:38	55103	WERT_T1	1	1	0	4.6	4.4	-0.2	0	0	0	0	0	0	0	0
7/21/2024 22:38	67602	WARW_T2	0	0	0	0	0	0	0.84	0.73	4	4	0	3000	3000	0
7/21/2024 22:38	66701	STRA_T1	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/21/2024 22:38	57103	SPHI_T2	0	0	0	0	0	0	-0.45	-0.51	1	1	0	600	600	0
7/21/2024 22:38	51004	NHAR_T1	1	1	0	6.8	6.5	-0.3	0	0	0	0	0	0	0	0
7/21/2024 22:38	52404	GRPA_T2	0	0	0	0	0	0	-0.68	-0.09	0	0	0	0	0	0
7/21/2024 22:38	46206	DANV_T2	0	0	0	0	0	0	0.52	0.51	2	2	0	2100	2100	0
7/21/2024 22:38	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 22:38	57101	SPHI_T2	6	6	0	1.1	1.07	-0.03	0	0	0	0	0	0	0	0
7/21/2024 22:38	52402	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/21/2024 22:38	67605	WARW_T1	3	3	0	0.67	0.63	-0.04	-0.92	-1	0	0	0	0	0	0
7/21/2024 22:38	51003	NHAR_T1	0	0	0	0	0	0	-2.66	-2.5	1	1	0	1200	1200	0
7/21/2024 22:38	49804	UNIV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/21/2024 22:38	66703	STRA_T1	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
7/21/2024 22:38	51002	NHAR_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
7/21/2024 22:38	43304	WATS_T2	0	0	0	0	0	0	-0.75	-0.82	0	0	0	0	0	0
7/21/2024 22:38	58002	WCAR_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/21/2024 22:38	54503	ENOL_T2	0	0	0	0	0	0	-1.8	-1.85	1	1	0	600	600	0
7/21/2024 22:38	49803	UNIV_T1	0	0	0	0	0	0	-2.13	-2.1	0	0	0	0	0	0
7/21/2024 22:38	58006	WCAR_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
7/21/2024 22:38	62102	ELAN_T1	0	0	0	0	0	0	0.54	1.4	0	0	0	0	0	0
7/21/2024 22:38	52401	GRPA_T2	0	1	1	0	0.1	0.1	-0.34	-0.35	0	0	0	0	0	0
7/21/2024 22:38	42201	SHEN_T2	2	2	0	0.1	0.2	0.1	0.06	0.04	1	1	0	600	600	0
7/21/2024 22:38	55101	WERT_T1	0	0	0	0	0	0	-1.8	-1.83	3	3	0	2400	2400	0
7/21/2024 22:38	13503	MCMI_T2	0	6	6	0	0.1	0.1	-0.75	-0.77	0	0	0	0	0	0
7/21/2024 22:38	52004	LING_T2	2	2	0	1.85	2.2	0.35	0	0	0	0	0	0	0	0
7/21/2024 22:38	56501	ROCK_T2	51	23	-28	0.18	0.15	-0.03	-5.23	-2.74	0	0	0	0	0	0
7/21/2024 22:39	47002	HUGH_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/21/2024 22:39	67602	WARW_T2	0	0	0	0	0	0	1.26	1.1	6	6	0	4500	4500	0
7/21/2024 22:39	44201	POIN_T1	0	0	0	0	0	0	-1.26	-1.47	1	1	0	1200	1200	0
7/21/2024 22:39	53902	HALI_T2	1	1	0	4.4	4.9	0.5	-0.67	-0.69	0	0	0	0	0	0
7/21/2024 22:39	53903	HALI_T2	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
7/21/2024 22:39	46203	DANV_T2	0	0	0	0	0	0	-1.68	-1.77	0	0	0	0	0	0
7/21/2024 22:39	57401	SPAN_T1	0	0	0	0	0	0	-0.78	-0.76	1	1	0	600	600	0
7/21/2024 22:39	52501	PROG_T1	0	4	4	0	0.13	0.13	-0.88	-0.93	1	1	0	300	300	0
7/21/2024 22:39	47101	MARL_T1	22	13	-9	0.85	0.42	-0.43	-0.94	-1	0	0	0	0	0	0
7/21/2024 22:39	56803	BENV_T1	0	0	0	0	0	0	-0.22	-0.28	1	1	0	600	600	0
7/21/2024 22:39	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/21/2024 22:39	56801	BENV_T1	5	6	1	0.7	0.85	0.15	-0.96	-0.39	2	1	-1	1200	600	-600
7/21/2024 22:39	13105	NHAM_T2	2	0	-2	0.15	0	-0.15	-1.4	-1.47	1	1	0	1200	1200	0
7/21/2024 22:39	21203	ECAR_T1	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
7/21/2024 22:39	56501	ROCK_T2	51	23	-28	0.18	0.15	-0.03	-5.23	-2.74	0	0	0	0	0	0
7/21/2024 22:39	47001	HUGH_T2	3	3	0	7.23	8	0.77	-1.49	-1.56	1	1	0	900	900	0
7/21/2024 22:39	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
7/21/2024 22:40	51402	LYKE_T1	35	0	-35	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/21/2024 22:40	57702	PAXT_T1	0	0	0	0	0	0	-0.65	-0.69	0	0	0	0	0	0
7/21/2024 22:40	47104	MARL_T1	0	0	0	0	0	0	-0.41	-0.47	0	0	0	0	0	0
7/21/2024 22:40	46801	HEPB_T2	2	2	0	0.55	0.8	0.25	-0.1	-0.15	0	0	0	0	0	0
7/21/2024 22:40	56501	ROCK_T2	51	23	-28	0.18	0.15	-0.03	-5.23	-2.74	0	0	0	0	0	0
7/21/2024 22:40	40603	PIGR_T1	0	0	0	0	0	0	-0.68	-0.71	0	0	0	0	0	0
7/21/2024 22:40	46001	BERW_T1	0	0	0	0	0	0	0.97	0.93	0	0	0	0	0	0
7/21/2024 22:40	55103	WERT_T1	1	1	0	4.6	4.4	-0.2	0	0	0	0	0	0	0	0
7/21/2024 22:40	52401	GRPA_T2	0	1	1	0	0.1	0.1	-0.34	-0.35	0	0	0	0	0	0
7/21/2024 22:40	58803	COCO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 22:40	43304	WATS_T2	0	0	0	0	0	0	-1.51	-1.63	0	0	0	0	0	0
7/21/2024 22:40	54701	NEBL_T1	1	1	0	0.7	1.3	0.6	0	0	1	1	0	600	600	0
7/21/2024 22:40	67602	WARW_T2	0	0	0	0	0	0	0.42	0.37	2	2	0	1500	1500	0
7/21/2024 22:40	47101	MARL_T1	22	13	-9	0.85	0.42	-0.43	0	0	0	0	0	0	0	0
7/21/2024 22:40	67605	WARW_T1	3	3	0	0.67	0.63	-0.04	-0.92	-1	0	0	0	0	0	0
7/21/2024 22:40	46302	ROHR_T1	4	4	0	0.93	1.35	0.42	0.27	0.26	0	0	0	0	0	0
7/21/2024 22:40	52402	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/21/2024 22:40	55408	SHER_T2	1	1	0	1.8	2.1	0.3	-0.94	-0.94	1	1	0	1200	1200	0
7/21/2024 22:40	56801	BENV_T1	5	6	1	0.7	0.85	0.15	-1.92	-0.78	4	2	-2	2400	1200	-1200
7/21/2024 22:40	44301	BEAV_T2	0	0	0	0	0	0	-1.28	-1.28	1	1	0	600	600	0
7/21/2024 22:40	61301	EARL_T1	0	0	0	0	0	0	-0.64	-0.64	1	1	0	900	900	0
7/21/2024 22:40	52501	PROG_T1	0	4	4	0	0.13	0.13	-0.88	-0.93	1	1	0	300	300	0
7/21/2024 22:40	51401	LYKE_T1	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
7/21/2024 22:40	55101	WERT_T1	0	0	0	0	0	0	-1.8	-1.83	3	3	0	2400	2400	0
7/21/2024 22:40	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 22:40	44801	EDAN_T2	0	11	11	0	0.18	0.18	-1.47	-1.46	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/21/2024 22:41	64305	LINC_T1	1	1	0	0.4	0.1	-0.3	-0.19	-0.12	0	0	0	0	0	0
7/21/2024 22:41	47002	HUGH_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/21/2024 22:41	54001	SDLE_T1	1	0	-1	0.2	0	-0.2	0	0	1	1	0	600	600	0
7/21/2024 22:41	49804	UNIV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/21/2024 22:41	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/21/2024 22:41	56504	ROCK_T2	0	0	0	0	0	0	0.25	0.14	0	0	0	0	0	0
7/21/2024 22:41	52404	GRPA_T2	0	0	0	0	0	0	-0.68	-0.09	0	0	0	0	0	0
7/21/2024 22:41	53902	HALI_T2	1	1	0	4.4	4.9	0.5	-1.33	-1.38	0	0	0	0	0	0
7/21/2024 22:41	44202	POIN_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/21/2024 22:41	47001	HUGH_T2	3	3	0	7.23	8	0.77	-1.49	-1.56	1	1	0	900	900	0
7/21/2024 22:41	42902	MIDD_T2	0	0	0	0	0	0	-1.13	-1.08	1	1	0	600	600	0
7/21/2024 22:41	40101	HUNT_T2	0	0	0	0	0	0	-0.9	-1	0	0	0	0	0	0
7/21/2024 22:41	43301	WATS_T2	1	0	-1	0.2	0	-0.2	-0.41	-0.41	1	1	0	900	900	0
7/21/2024 22:41	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 22:41	43304	WATS_T2	0	0	0	0	0	0	-1.51	-1.63	0	0	0	0	0	0
7/21/2024 22:41	52402	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/21/2024 22:41	52004	LING_T2	2	2	0	1.85	2.2	0.35	0	0	0	0	0	0	0	0
7/21/2024 22:41	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/21/2024 22:41	44203	POIN_T2	0	0	0	0	0	0	0.05	0.05	1	1	0	900	900	0
7/21/2024 22:41	40901	JESH_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/21/2024 22:41	43202	MVIL_T2	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
7/21/2024 22:41	41902	REED_T1	0	0	0	0	0	0	0.09	0.21	1	1	0	900	900	0
7/21/2024 22:41	66505	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/21/2024 22:41	42701	AUGU_T1	1	1	0	0.4	0	-0.4	0	0	2	2	0	1800	1800	0
7/21/2024 22:41	47401	PENS_T1	0	0	0	0	0	0	1.15	1.19	0	0	0	0	0	0
7/21/2024 22:41	57303	MOAL_T2	1	1	0	7.6	7.5	-0.1	0	0	0	0	0	0	0	0
7/21/2024 22:41	56801	BENV_T1	5	6	1	0.7	0.85	0.15	-0.96	-0.39	2	1	-1	1200	600	-600
7/21/2024 22:41	53903	HALI_T2	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
7/21/2024 22:41	47101	MARL_T1	22	13	-9	0.85	0.42	-0.43	-0.47	-0.5	0	0	0	0	0	0
7/21/2024 22:41	66504	SMAN_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
7/21/2024 22:41	53901	HALI_T2	0	0	0	0	0	0	-1.16	-1.19	0	0	0	0	0	0
7/21/2024 22:41	52002	LING_T2	0	0	0	0	0	0	-0.11	-0.2	0	0	0	0	0	0
7/21/2024 22:41	49803	UNIV_T1	0	0	0	0	0	0	-2.13	-2.1	0	0	0	0	0	0
7/21/2024 22:41	56501	ROCK_T2	51	23	-28	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
7/21/2024 22:41	56803	BENV_T1	0	0	0	0	0	0	-0.22	-0.28	1	1	0	600	600	0
7/21/2024 22:41	46801	HEPB_T2	2	2	0	0.55	0.8	0.25	-0.1	-0.15	0	0	0	0	0	0
7/21/2024 22:41	57304	MOAL_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
7/21/2024 22:42	53903	HALI_T2	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
7/21/2024 22:42	56803	BENV_T1	0	0	0	0	0	0	-0.22	-0.28	1	1	0	600	600	0
7/21/2024 22:42	56801	BENV_T1	5	6	1	0.7	0.85	0.15	-2.89	-1.17	6	3	-3	3600	1800	-1800
7/21/2024 22:42	58402	MORO_T1	0	0	0	0	0	0	-0.58	-0.41	3	3	0	1950	1950	0
7/21/2024 22:42	59101	WALK_T2	0	0	0	0	0	0	-0.4	-0.24	0	0	0	0	0	0
7/21/2024 22:42	58803	COCO_T1	1	1	0	1.3	1.2	-0.1	-1.17	-1.08	1	0	-1	600	0	-600
7/21/2024 22:42	43304	WATS_T2	0	0	0	0	0	0	-0.75	-0.82	0	0	0	0	0	0
7/21/2024 22:42	59102	WALK_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
7/21/2024 22:42	40902	JESH_T1	0	0	0	0	0	0	-1.11	-1.07	1	1	0	600	600	0
7/21/2024 22:42	40901	JESH_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/21/2024 22:42	44301	BEAV_T2	0	0	0	0	0	0	-1.28	-1.28	1	1	0	600	600	0
7/21/2024 22:42	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/21/2024 22:42	53901	HALI_T2	0	0	0	0	0	0	-1.16	-1.19	0	0	0	0	0	0
7/21/2024 22:42	52002	LING_T2	0	0	0	0	0	0	-0.11	-0.2	0	0	0	0	0	0
7/21/2024 22:42	52004	LING_T2	2	2	0	1.85	2.2	0.35	0	0	0	0	0	0	0	0
7/21/2024 22:42	53902	HALI_T2	1	1	0	4.4	4.9	0.5	0	0	0	0	0	0	0	0
7/21/2024 22:43	40901	JESH_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/21/2024 22:43	52402	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/21/2024 22:43	56801	BENV_T1	5	6	1	0.7	0.85	0.15	-1.92	-0.78	4	2	-2	2400	1200	-1200
7/21/2024 22:43	12701	MACU_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	1200	1200	0
7/21/2024 22:43	52002	LING_T2	0	0	0	0	0	0	-0.11	-0.2	0	0	0	0	0	0
7/21/2024 22:43	44201	POIN_T1	0	0	0	0	0	0	-1.26	-1.47	1	1	0	1200	1200	0
7/21/2024 22:43	55001	NEWP_T1	0	0	0	0	0	0	-0.09	-0.06	0	0	0	0	0	0
7/21/2024 22:43	52004	LING_T2	2	2	0	1.85	2.2	0.35	0	0	0	0	0	0	0	0
7/21/2024 22:43	46203	DANV_T2	0	0	0	0	0	0	-1.68	-1.77	0	0	0	0	0	0
7/21/2024 22:43	52401	GRPA_T2	0	1	1	0	0.1	0.1	-0.34	-0.35	0	0	0	0	0	0
7/21/2024 22:43	40902	JESH_T1	0	0	0	0	0	0	-1.11	-1.07	1	1	0	600	600	0
7/21/2024 22:43	46801	HEPB_T2	2	2	0	0.55	0.8	0.25	-0.1	-0.15	0	0	0	0	0	0
7/21/2024 22:43	55002	NEWP_T1	2	5	3	0.6	0.54	-0.06	0	0	0	0	0	0	0	0
7/21/2024 22:43	52403	GRPA_T2	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
7/21/2024 22:43	44301	BEAV_T2	0	0	0	0	0	0	-1.28	-1.28	1	1	0	600	600	0
7/21/2024 22:44	43202	MVIL_T2	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
7/21/2024 22:44	47101	MARL_T1	22	13	-9	0.85	0.42	-0.43	-0.47	-0.5	0	0	0	0	0	0
7/21/2024 22:44	44201	POIN_T1	0	0	0	0	0	0	-1.26	-1.47	1	1	0	1200	1200	0
7/21/2024 22:44	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 22:44	59003	MIFF_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
7/21/2024 22:44	59101	WALK_T2	0	0	0	0	0	0	-0.4	-0.24	0	0	0	0	0	0
7/21/2024 22:45	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/21/2024 22:45	41902	REED_T1	0	0	0	0	0	0	0.09	0.21	1	1	0	900	900	0
7/21/2024 22:45	46901	MNTG_T2	0	0	0	0	0	0	0.28	0.33	0	0	0	0	0	0
7/21/2024 22:45	46903	MNTG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/21/2024 22:45	59101	WALK_T2	0	0	0	0	0	0	-0.4	-0.24	0	0	0	0	0	0
7/21/2024 22:46	52402	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/21/2024 22:46	44801	EDAN_T2	3	11	8	0.1	0.18	0.08	-1.47	-1.46	0	0	0	0	0	0
7/21/2024 22:46	46302	ROHR_T1	4	4	0	1.18	1.1	-0.08	0.27	0.26	0	0	0	0	0	0
7/21/2024 22:46	52403	GRPA_T2	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
7/21/2024 22:46	59101	WALK_T2	0	0	0	0	0	0	-0.4	-0.24	0	0	0	0	0	0
7/21/2024 22:46	52401	GRPA_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/21/2024 22:51	49804	UNIV_T1	1	3	2	0.1	0.13	0.03	0.83	0.8	0	0	0	0	0	0
7/21/2024 22:58	52402	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/21/2024 22:58	52403	GRPA_T2	0	0	0	0	0	0	-0.56	-0.61	0	0	0	0	0	0
7/21/2024 22:58	52401	GRPA_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/21/2024 23:08	52004	LING_T2	2	2	0	2.2	2.7	0.5	0	0	0	0	0	0	0	0
7/21/2024 23:08	52002	LING_T2	0	0	0	0	0	0	-0.28	-0.37	0	0	0	0	0	0
7/21/2024 23:19	44801	EDAN_T2	8	13	5	0.16	0.16	0	-1.48	-1.44	0	0	0	0	0	0
7/21/2024 23:20	67602	WARW_T2	0	0	0	0	0	0	0.33	0.32	2	2	0	1500	1500	0
7/21/2024 23:23	64701	LITI_T1	0	0	0	0	0	0	-0.4	-0.34	1	1	0	900	900	0
7/21/2024 23:30	53902	HALI_T2	1	1	0	5.6	5.5	-0.1	-0.74	-0.75	0	0	0	0	0	0
7/21/2024 23:30	53903	HALI_T2	2	2	0	1.05	1.35	0.3	0	0	0	0	0	0	0	0
7/21/2024 23:30	53901	HALI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/21/2024 23:39	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0.17	0.12	0	0	0	0	0	0
7/21/2024 23:51	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/21/2024 23:54	65901	SAKR_T2	1	1	0	7.7	8.1	0.4	-1.15	-1.23	2	2	0	1500	1500	0
7/22/2024 0:20	52404	GRPA_T2	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
7/22/2024 0:20	52401	GRPA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
7/22/2024 0:20	52402	GRPA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/22/2024 1:38	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/22/2024 2:06	56801	BENV_T1	15	16	1	0.88	0.88	0	-0.71	-0.7	1	1	0	600	600	0
7/22/2024 5:53	53902	HALI_T2	1	1	0	4.8	4.7	-0.1	0	0	0	0	0	0	0	0
7/22/2024 5:53	53901	HALI_T2	0	0	0	0	0	0	-0.92	-0.89	0	0	0	0	0	0
7/22/2024 5:53	53903	HALI_T2	2	2	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/22/2024 6:55	22002	BOHE_T1	0	5	5	0	0.18	0.18	0.31	0.37	0	0	0	0	0	0
7/22/2024 6:55	22003	BOHE_T1	183	332	149	0.22	0.62	0.4	0	0	0	0	0	0	0	0
7/22/2024 6:55	22001	BOHE_T1	0	106	106	0	0.18	0.18	0	0	0	0	0	0	0	0
7/22/2024 7:02	12601	MACA_T1	0	0	0	0	0	0	0.89	0.96	0	0	0	0	0	0
7/22/2024 7:02	12605	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 7:07	55102	WERT_T2	0	0	0	0	0	0	-1.01	-0.99	2	2	0	1200	1200	0
7/22/2024 7:11	22002	BOHE_T1	0	7	7	0	0.2	0.2	0.37	0.37	0	0	0	0	0	0
7/22/2024 7:11	22003	BOHE_T1	206	373	167	0.25	0.62	0.37	0	0	0	0	0	0	0	0
7/22/2024 7:11	22001	BOHE_T1	0	125	125	0	0.21	0.21	0	0	0	0	0	0	0	0
7/22/2024 7:15	58401	MORO_T1	0	0	0	0	0	0	-2.23	-2.18	2	2	0	1200	1200	0
7/22/2024 7:15	58402	MORO_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/22/2024 7:18	58401	MORO_T1	0	0	0	0	0	0	-2.23	-2.18	2	2	0	1200	1200	0
7/22/2024 7:18	56501	ROCK_T2	3	3	0	0.37	0.5	0.13	-1.76	-1.74	0	0	0	0	0	0
7/22/2024 7:18	58402	MORO_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/22/2024 7:21	44902	SCOT_T2	0	0	0	0	0	0	-0.77	-0.69	0	0	0	0	0	0
7/22/2024 7:22	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 7:22	24902	WHHA_T1	1	1	0	0.4	0.9	0.5	1.56	1.54	0	0	0	0	0	0
7/22/2024 7:28	28704	HAML_T2	1	1	0	0.5	0.4	-0.1	0.03	-0.01	0	0	0	0	0	0
7/22/2024 7:28	28703	HAML_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/22/2024 7:36	24204	PROV_T3	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
7/22/2024 7:36	24201	PROV_T3	1	1	0	6.5	6.4	-0.1	-1.17	-1.13	1	1	0	1200	1200	0
7/22/2024 7:36	13501	MCMI_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
7/22/2024 7:40	46206	DANV_T2	46	71	25	0.45	0.49	0.04	2.25	2.23	2	2	0	2100	2100	0
7/22/2024 7:40	44301	BEAV_T2	1	1	0	0	0.5	0.5	-0.47	-0.39	2	2	0	1500	1500	0
7/22/2024 7:41	46206	DANV_T2	46	71	25	0.45	0.49	0.04	2.25	2.23	2	2	0	2100	2100	0
7/22/2024 7:49	43801	SWIL_T1	34	16	-18	0.36	0.43	0.07	0	0	0	0	0	0	0	0
7/22/2024 7:49	43802	SWIL_T1	0	1	1	0	0	0	-0.37	-0.33	1	1	0	600	600	0
7/22/2024 7:49	14601	SWIH_T1	0	0	0	0	0	0	-1.5	-1.49	0	0	0	0	0	0
7/22/2024 7:49	13905	SEID_T1	0	0	0	0	0	0	0.46	0.51	0	0	0	0	0	0
7/22/2024 7:50	15703	TANN_T2	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
7/22/2024 7:50	15702	TANN_T2	0	0	0	0	0	0	-0.35	-0.26	0	0	0	0	0	0
7/22/2024 7:51	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 7:52	58003	WCAR_T1	1	1	0	1.4	1.8	0.4	0.25	0.29	1	1	0	600	600	0
7/22/2024 7:52	58001	WCAR_T1	4	4	0	0.98	1.38	0.4	0	0	0	0	0	0	0	0
7/22/2024 7:53	24902	WHHA_T1	1	1	0	0.9	0.4	-0.5	0.76	0.81	0	0	0	0	0	0
7/22/2024 7:53	24901	WHHA_T1	1	2	1	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 7:54	58003	WCAR_T1	1	1	0	1.4	1.8	0.4	0.25	0.29	1	1	0	600	600	0
7/22/2024 7:54	24901	WHHA_T1	1	2	1	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 7:54	15702	TANN_T2	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
7/22/2024 7:54	24902	WHHA_T1	1	1	0	0.9	0.4	-0.5	0.76	0.81	0	0	0	0	0	0
7/22/2024 7:54	15703	TANN_T2	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
7/22/2024 7:54	58001	WCAR_T1	4	4	0	0.98	1.38	0.4	0	0	0	0	0	0	0	0
7/22/2024 7:55	67503	WEWI_T2	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
7/22/2024 7:55	43304	WATS_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
7/22/2024 7:55	55102	WERT_T2	0	0	0	0	0	0	-0.92	-0.93	2	2	0	1200	1200	0
7/22/2024 7:57	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 7:58	12006	HATF_T1	0	0	0	0	0	0	1.4	1.43	1	1	0	1200	1200	0
7/22/2024 7:58	21203	ECAR_T1	0	0	0	0	0	0	-0.19	-0.12	0	0	0	0	0	0
7/22/2024 7:59	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 8:00	40101	HUNT_T2	0	0	0	0	0	0	-0.17	-0.12	0	0	0	0	0	0
7/22/2024 8:02	64902	MILL_T2	0	0	0	0	0	0	-0.8	-0.78	1	1	0	900	900	0
7/22/2024 8:04	13301	ORVI_T1	0	0	0	0	0	0	-0.45	-0.41	0	0	0	0	0	0
7/22/2024 8:07	59101	WALK_T2	1	0	-1	0.5	0	-0.5	0.41	0.57	0	0	0	0	0	0
7/22/2024 8:07	57403	SPAN_T1	4	8	4	0.13	0.14	0.01	0.15	0.13	0	0	0	0	0	0
7/22/2024 8:07	58006	WCAR_T2	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/22/2024 8:10	40504	CRES_T1	0	0	0	0	0	0	-1.41	-1.49	0	0	0	0	0	0
7/22/2024 8:10	40505	CRES_T1	3	3	0	4.43	4	-0.43	0	0	0	0	0	0	0	0
7/22/2024 8:10	28102	TWLA_T2	3	3	0	0.3	0.2	-0.1	0.22	0.22	0	0	0	0	0	0
7/22/2024 8:11	40504	CRES_T1	0	0	0	0	0	0	-1.41	-1.49	0	0	0	0	0	0
7/22/2024 8:11	40505	CRES_T1	3	3	0	4.43	4	-0.43	0	0	0	0	0	0	0	0
7/22/2024 8:17	16902	MECK_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
7/22/2024 8:20	56501	ROCK_T2	39	13	-26	0.17	0.25	0.08	-3.4	-3.32	0	0	0	0	0	0
7/22/2024 8:20	16902	MECK_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
7/22/2024 8:24	20403	ASHF_T2	5	1	-4	0.18	0.1	-0.08	1.26	1.47	0	0	0	0	0	0
7/22/2024 8:24	58003	WCAR_T1	1	5	4	1.8	0.44	-1.36	0.24	0.32	1	1	0	600	600	0
7/22/2024 8:24	58001	WCAR_T1	4	4	0	1.38	1.3	-0.08	0	0	0	0	0	0	0	0
7/22/2024 8:24	20401	ASHF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/22/2024 8:30	25402	LAHA_T2	0	0	0	0	0	0	-0.64	-0.56	0	0	0	0	0	0
7/22/2024 8:42	63803	HEMP_T1	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
7/22/2024 8:42	63804	HEMP_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
7/22/2024 8:42	23202	HIRU_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
7/22/2024 8:43	61703	ELIZ_T1	0	0	0	0	0	0	-1.65	-1.51	1	1	0	900	900	0
7/22/2024 8:43	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
7/22/2024 8:43	61701	ELIZ_T1	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0	0
7/22/2024 8:44	63804	HEMP_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
7/22/2024 8:44	63801	HEMP_T1	0	0	0	0	0	0	-0.15	-0.16	1	1	0	900	900	0
7/22/2024 8:48	65401	MARI_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
7/22/2024 8:51	57403	SPAN_T1	2	4	2	0.1	0.18	0.08	0	0	0	0	0	0	0	0
7/22/2024 8:51	57401	SPAN_T1	0	0	0	0	0	0	-1.14	-1.06	1	1	0	600	600	0
7/22/2024 8:52	16301	ALPA_T1	0	0	0	0	0	0	0.16	0.12	0	0	0	0	0	0
7/22/2024 8:53	47403	PENS_T1	1	1	0	2.2	2.1	-0.1	0	0	0	0	0	0	0	0
7/22/2024 8:53	47401	PENS_T1	2	2	0	0.75	0.25	-0.5	1.28	1.32	0	0	0	0	0	0
7/22/2024 8:55	47401	PENS_T1	2	2	0	0.75	0.25	-0.5	1.28	1.32	0	0	0	0	0	0
7/22/2024 8:55	47403	PENS_T1	1	1	0	2.2	2.1	-0.1	0	0	0	0	0	0	0	0
7/22/2024 9:00	64902	MILL_T2	0	0	0	0	0	0	-0.81	-0.77	1	1	0	900	900	0
7/22/2024 9:03	65603	QVIL_T2	0	0	0	0	0	0	0.56	0.63	0	0	0	0	0	0
7/22/2024 9:03	64904	MILL_T1	0	1	1	0	0	0	0.01	0.03	0	0	0	0	0	0
7/22/2024 9:05	64902	MILL_T2	0	0	0	0	0	0	-0.81	-0.77	1	1	0	900	900	0
7/22/2024 9:07	47403	PENS_T1	1	0	-1	2.1	0	-2.1	0	0	0	0	0	0	0	0
7/22/2024 9:07	47401	PENS_T1	2	3	1	0.4	0.1	-0.3	1.32	1.33	0	0	0	0	0	0
7/22/2024 9:09	15702	TANN_T2	0	1	1	0	0	0	-0.16	-0.12	0	0	0	0	0	0
7/22/2024 9:09	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
7/22/2024 9:14	45801	HEGI_T1	0	0	0	0	0	0	-0.39	-0.33	1	1	0	900	900	0
7/22/2024 9:17	64204	KINZ_T1	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
7/22/2024 9:17	64203	KINZ_T1	0	1	1	0	0	0	0.07	0.11	3	3	0	2100	2100	0
7/22/2024 9:18	55002	NEWP_T1	3	6	3	0.5	0.68	0.18	0	0	0	0	0	0	0	0
7/22/2024 9:18	55001	NEWP_T1	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
7/22/2024 9:20	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 9:22	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 9:25	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 9:25	11103	EGYP_T1	0	0	0	0	0	0	-0.71	-0.68	0	0	0	0	0	0
7/22/2024 9:26	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 9:26	11103	EGYP_T1	0	0	0	0	0	0	-0.71	-0.68	0	0	0	0	0	0
7/22/2024 9:38	56501	ROCK_T2	149	122	-27	0.24	0.23	-0.01	-1.58	-1.53	0	0	0	0	0	0
7/22/2024 9:40	43304	WATS_T2	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
7/22/2024 9:41	61801	EELI_T2	2	1	-1	0.4	0.2	-0.2	-0.26	-0.12	1	1	0	600	600	0
7/22/2024 9:56	46206	DANV_T2	45	53	8	0.4	0.42	0.02	4.41	4.6	4	4	0	4200	4200	0
7/22/2024 10:00	40505	CRES_T1	3	3	0	3.23	2.67	-0.56	0.52	0.52	0	0	0	0	0	0
7/22/2024 10:00	64204	KINZ_T1	2	1	-1	0.35	0.8	0.45	0	0	0	0	0	0	0	0
7/22/2024 10:00	56501	ROCK_T2	61	6	-55	0.15	0.14	-0.01	-1.53	-1.5	0	0	0	0	0	0
7/22/2024 10:00	43801	SWIL_T1	3	2	-1	1.63	2.6	0.97	0	0	0	0	0	0	0	0
7/22/2024 10:00	64203	KINZ_T1	0	0	0	0	0	0	-0.48	-0.24	4	4	0	2100	2100	0
7/22/2024 10:00	55001	NEWP_T1	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
7/22/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.41	0.48	0	0	0	0	0	0
7/22/2024 10:00	56504	ROCK_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
7/22/2024 10:00	13301	ORVI_T1	0	0	0	0	0	0	-0.26	-0.17	0	0	0	0	0	0
7/22/2024 10:00	64203	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
7/22/2024 10:00	67602	WARW_T2	0	0	0	0	0	0	1.24	1.37	0	0	0	0	0	0
7/22/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
7/22/2024 10:00	55102	WERT_T2	0	0	0	0	0	0	-0.33	-0.3	2	2	0	1200	1200	0
7/22/2024 10:00	55002	NEWP_T1	2	3	1	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
7/22/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
7/22/2024 10:00	43304	WATS_T2	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
7/22/2024 10:00	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.06	1	1	0	600	600	0
7/22/2024 10:08	58003	WCAR_T1	1	1	0	1	1	0	0.99	0.95	0	0	0	0	0	0
7/22/2024 10:08	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 10:08	58001	WCAR_T1	4	4	0	0.83	0.75	-0.08	0.14	0.19	0	0	0	0	0	0
7/22/2024 10:10	24902	WHHA_T1	1	1	0	1	0.4	-0.6	1.76	1.68	0	0	0	0	0	0
7/22/2024 10:10	58001	WCAR_T1	4	4	0	0.83	0.75	-0.08	0	0	0	0	0	0	0	0
7/22/2024 10:10	58003	WCAR_T1	1	1	0	1	1	0	0.99	0.95	0	0	0	0	0	0
7/22/2024 10:10	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 10:11	16301	ALPA_T1	0	0	0	0	0	0	0.17	0.26	0	0	0	0	0	0
7/22/2024 10:11	40802	EXCH_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
7/22/2024 10:13	44801	EDAN_T2	0	0	0	0	0	0	-1.38	-1.37	0	0	0	0	0	0
7/22/2024 10:14	40802	EXCH_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
7/22/2024 10:19	21201	ECAR_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 10:19	21203	ECAR_T1	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
7/22/2024 10:24	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 10:24	29402	BELT_T1	64	28	-36	0.39	0.25	-0.14	0	0	0	0	0	0	0	0
7/22/2024 10:25	29402	BELT_T1	64	28	-36	0.39	0.25	-0.14	0	0	0	0	0	0	0	0
7/22/2024 10:25	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 10:26	20401	ASHF_T2	4	4	0	0.85	0.75	-0.1	0.22	0.25	0	0	0	0	0	0
7/22/2024 10:26	20402	ASHF_T2	6	0	-6	2.12	0	-2.12	0	0	0	0	0	0	0	0
7/22/2024 10:26	61301	EARL_T1	0	0	0	0	0	0	-1.18	-1.2	2	2	0	1800	1800	0
7/22/2024 10:28	61301	EARL_T1	0	0	0	0	0	0	-1.18	-1.2	2	2	0	1800	1800	0
7/22/2024 10:28	46204	DANV_T2	37	43	6	0.42	0.39	-0.03	0	0	0	0	0	0	0	0
7/22/2024 10:28	46203	DANV_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
7/22/2024 10:36	67203	TEHI_T1	11	15	4	0.5	0.56	0.06	0	0	0	0	0	0	0	0
7/22/2024 10:36	67201	TEHI_T1	0	0	0	0	0	0	1.34	1.26	1	1	0	600	600	0
7/22/2024 10:37	29402	BELT_T1	29	40	11	0.59	0.5	-0.09	0	0	0	0	0	0	0	0
7/22/2024 10:52	55101	WERT_T1	0	0	0	0	0	0	-2.84	-4.2	8	8	0	6600	6600	0
7/22/2024 10:53	55101	WERT_T1	0	0	0	0	0	0	-2.84	-4.2	8	8	0	6600	6600	0
7/22/2024 10:54	55101	WERT_T1	0	0	0	0	0	0	-1.42	-2.1	4	4	0	3300	3300	0
7/22/2024 10:55	55101	WERT_T1	0	0	0	0	0	0	-1.42	-2.1	4	4	0	3300	3300	0
7/22/2024 10:58	23203	HIRU_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
7/22/2024 10:58	23202	HIRU_T2	0	2	2	0	0.1	0.1	0.16	0.16	0	0	0	0	0	0
7/22/2024 10:58	23201	HIRU_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
7/22/2024 11:00	64305	LINC_T1	1	1	0	1.1	0.1	-1	0.29	0.3	0	0	0	0	0	0
7/22/2024 11:09	46206	DANV_T2	32	44	12	0.48	0.48	0	4.72	4.67	4	4	0	4200	4200	0
7/22/2024 11:12	11904	ETEX_T2	0	0	0	0	0	0	-1	-0.98	0	0	0	0	0	0
7/22/2024 11:15	40901	JESH_T1	1	1	0	2	2.2	0.2	0	0	0	0	0	0	0	0
7/22/2024 11:15	40902	JESH_T1	1	0	-1	0.9	0	-0.9	-0.7	-0.65	2	2	0	1200	1200	0
7/22/2024 11:16	43202	MVIL_T2	1	1	0	0.2	0.3	0.1	-0.39	-0.42	0	0	0	0	0	0
7/22/2024 11:18	43202	MVIL_T2	1	1	0	0.2	0.3	0.1	-0.39	-0.42	0	0	0	0	0	0
7/22/2024 11:19	43202	MVIL_T2	1	1	0	0.2	0.3	0.1	-0.39	-0.42	0	0	0	0	0	0
7/22/2024 11:20	56501	ROCK_T2	1	3	2	0.2	0.53	0.33	-2.96	-2.9	0	0	0	0	0	0
7/22/2024 11:22	56501	ROCK_T2	1	3	2	0.2	0.53	0.33	-1.45	-1.4	0	0	0	0	0	0
7/22/2024 11:23	56501	ROCK_T2	1	3	2	0.2	0.53	0.33	-1.45	-1.4	0	0	0	0	0	0
7/22/2024 11:24	56802	BENV_T2	1	1	0	0.5	0.6	0.1	-0.94	-0.92	0	0	0	0	0	0
7/22/2024 11:25	56802	BENV_T2	1	1	0	0.5	0.6	0.1	-3.77	-3.68	0	0	0	0	0	0
7/22/2024 11:26	44801	EDAN_T2	0	0	0	0	0	0	-1.3	-1.24	0	0	0	0	0	0
7/22/2024 11:26	56803	BENV_T1	1	2	1	1.7	2	0.3	0	0	0	0	0	0	0	0
7/22/2024 11:26	56801	BENV_T1	5	4	-1	0.6	0.58	-0.02	-0.46	-0.45	1	1	0	600	600	0
7/22/2024 11:28	23202	HIRU_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/22/2024 11:28	23201	HIRU_T2	5	4	-1	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
7/22/2024 11:28	23203	HIRU_T2	5	1	-4	0.1	0.1	0	0.2	0.19	0	0	0	0	0	0
7/22/2024 11:31	65004	NEFF_T2	0	0	0	0	0	0	-0.62	-0.58	1	1	0	600	600	0
7/22/2024 11:37	67605	WARW_T1	0	0	0	0	0	0	-0.84	-0.82	0	0	0	0	0	0
7/22/2024 11:41	60801	BUCK_T1	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
7/22/2024 11:41	60803	BUCK_T1	9	13	4	0.23	0.38	0.15	0	0	0	0	0	0	0	0
7/22/2024 11:42	52402	GRPA_T2	1	1	0	1.3	0.4	-0.9	0	0	0	0	0	0	0	0
7/22/2024 11:42	52403	GRPA_T2	22	20	-2	0.54	0.57	0.03	0	0	0	0	0	0	0	0
7/22/2024 11:42	52404	GRPA_T2	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
7/22/2024 11:43	52402	GRPA_T2	1	1	0	1.3	0.4	-0.9	0	0	0	0	0	0	0	0
7/22/2024 11:43	52403	GRPA_T2	22	20	-2	0.54	0.57	0.03	0	0	0	0	0	0	0	0
7/22/2024 11:43	52404	GRPA_T2	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
7/22/2024 11:51	52501	PROG_T1	0	0	0	0	0	0	1.25	1.26	2	2	0	600	600	0
7/22/2024 11:51	13303	ORVI_T1	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
7/22/2024 11:56	43301	WATS_T2	0	0	0	0	0	0	-0.39	-0.38	1	1	0	900	900	0
7/22/2024 11:57	20403	ASHF_T2	2	9	7	0.15	0.2	0.05	1.9	1.73	0	0	0	0	0	0
7/22/2024 11:57	20401	ASHF_T2	5	5	0	1.1	1.18	0.08	0	0	0	0	0	0	0	0
7/22/2024 11:58	63304	GREE_T1	0	0	0	0	0	0	-2.14	-2.16	0	0	0	0	0	0
7/22/2024 11:58	20403	ASHF_T2	2	9	7	0.15	0.2	0.05	1.9	1.73	0	0	0	0	0	0
7/22/2024 11:58	20401	ASHF_T2	5	5	0	1.1	1.18	0.08	0	0	0	0	0	0	0	0
7/22/2024 12:00	63304	GREE_T1	0	0	0	0	0	0	-2.14	-2.16	0	0	0	0	0	0
7/22/2024 12:01	45402	LIND_T2	1	1	0	1.5	1.5	0	-1.45	-1.46	0	0	0	0	0	0
7/22/2024 12:02	45702	LIND_T2	1	1	0	1.5	1.5	0	-1.45	-1.46	0	0	0	0	0	0
7/22/2024 12:02	65001	NEFF_T2	0	0	0	0	0	0	0.35	0.31	1	1	0	1200	1200	0
7/22/2024 12:07	66505	SMAN_T2	5	12	7	0.26	0.3	0.04	1.09	1.07	8	8	0	4600	4600	0
7/22/2024 12:12	11102	EGYP_T1	1	3	2	1	1.2	0.2	0	0	0	0	0	0	0	0
7/22/2024 12:12	11104	EGYP_T1	5	6	1	0.96	0.83	-0.13	1.1	1.09	0	0	0	0	0	0
7/22/2024 12:13	11104	EGYP_T1	5	6	1	0.96	0.83	-0.13	1.1	1.09	0	0	0	0	0	0
7/22/2024 12:13	11102	EGYP_T1	1	3	2	1	1.2	0.2	0	0	0	0	0	0	0	0
7/22/2024 12:15	42903	MIDD_T2	2	2	0	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
7/22/2024 12:15	42902	MIDD_T2	0	1	1	0	0	0	-0.23	-0.2	1	1	0	600	600	0
7/22/2024 12:16	65601	QVIL_T2	0	0	0	0	0	0	-0.1	-0.18	1	1	0	900	900	0
7/22/2024 12:17	15703	TANN_T2	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
7/22/2024 12:17	15702	TANN_T2	0	0	0	0	0	0	-0.07	-0.01	0	0	0	0	0	0
7/22/2024 12:18	15703	TANN_T2	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
7/22/2024 12:18	15702	TANN_T2	0	0	0	0	0	0	-0.07	-0.01	0	0	0	0	0	0
7/22/2024 12:19	15703	TANN_T2	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
7/22/2024 12:19	15702	TANN_T2	0	0	0	0	0	0	-0.07	-0.01	0	0	0	0	0	0
7/22/2024 12:24	58006	WCAR_T2	0	0	0	0	0	0	-0.64	-0.59	0	0	0	0	0	0
7/22/2024 12:27	54505	ENOL_T2	0	0	0	0	0	0	-1	-0.97	1	1	0	600	600	0
7/22/2024 12:28	54505	ENOL_T2	0	0	0	0	0	0	-1	-0.97	1	1	0	600	600	0
7/22/2024 12:32	52004	LING_T2	2	2	0	5	4.9	-0.1	0.59	0.6	0	0	0	0	0	0
7/22/2024 12:33	60502	NMAN_T2	0	0	0	0	0	0	0.61	0.67	0	0	0	0	0	0
7/22/2024 12:33	25503	MADI_T1	0	0	0	0	0	0	-0.62	-0.58	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/22/2024 12:34	60502	NMAN_T2	0	0	0	0	0	0	0.61	0.67	0	0	0	0	0	0
7/22/2024 12:34	58401	MORO_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/22/2024 12:34	58402	MORO_T1	0	0	0	0	0	0	-0.52	-0.55	3	3	0	2400	2400	0
7/22/2024 12:36	58001	WCAR_T1	4	4	0	0.95	0.65	-0.3	0	0	0	0	0	0	0	0
7/22/2024 12:36	59101	WALK_T2	0	0	0	0	0	0	0.37	0.48	0	0	0	0	0	0
7/22/2024 12:36	58003	WCAR_T1	3	3	0	0.7	0.67	-0.03	0.38	0.43	1	1	0	600	600	0
7/22/2024 12:38	67605	WARW_T1	0	0	0	0	0	0	-0.82	-0.79	0	0	0	0	0	0
7/22/2024 12:43	63804	HEMP_T1	1	1	0	7.2	7.2	0	0.62	0.51	0	0	0	0	0	0
7/22/2024 12:43	28701	HAML_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
7/22/2024 12:43	28704	HAML_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
7/22/2024 12:44	40101	HUNT_T2	1	3	2	0.1	0.15	0.05	-0.5	-0.47	0	0	0	0	0	0
7/22/2024 12:48	16902	MECK_T1	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
7/22/2024 12:50	65401	MARI_T1	0	3	3	0	0.2	0.2	-0.08	0.11	0	0	0	0	0	0
7/22/2024 13:07	67505	WEWI_T1	0	0	0	0	0	0	1.2	1.33	2	2	0	1800	1800	0
7/22/2024 13:07	67602	WARW_T2	0	2	2	0	0.1	0.1	1.1	1.1	2	2	0	1500	1500	0
7/22/2024 13:08	67602	WARW_T2	0	2	2	0	0.1	0.1	3.31	3.31	6	6	0	4500	4500	0
7/22/2024 13:09	67602	WARW_T2	0	2	2	0	0.1	0.1	1.1	1.1	2	2	0	1500	1500	0
7/22/2024 13:10	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.56	0	0	0	0	0	0
7/22/2024 13:10	67602	WARW_T2	0	2	2	0	0.1	0.1	2.2	2.2	4	4	0	3000	3000	0
7/22/2024 13:11	67602	WARW_T2	0	2	2	0	0.1	0.1	1.1	1.1	2	2	0	1500	1500	0
7/22/2024 13:13	63501	HEID_TBK1-2	0	0	0	0	0	0	0.82	0.82	1	1	0	900	900	0
7/22/2024 13:13	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.56	0	0	0	0	0	0
7/22/2024 13:18	64302	LINC_T2	3	6	3	0.8	1.2	0.4	1.71	1.71	0	0	0	0	0	0
7/22/2024 13:19	65401	MARI_T1	2	2	0	0.2	0.1	-0.1	0.07	0.05	0	0	0	0	0	0
7/22/2024 13:21	66504	SMAN_T2	7	2	-5	0.39	0.5	0.11	0	0	0	0	0	0	0	0
7/22/2024 13:21	66505	SMAN_T2	3	19	16	0.7	0.7	0	0.51	0.6	4	4	0	2300	2300	0
7/22/2024 13:22	43304	WATS_T2	0	1	1	0	0	0	0.04	0.03	0	0	0	0	0	0
7/22/2024 13:23	61102	BERK_T5	0	0	0	0	0	0	3.94	4.57	3	3	0	900	900	0
7/22/2024 13:26	61102	BERK_T5	0	0	0	0	0	0	1.31	1.52	1	1	0	300	300	0
7/22/2024 13:27	61102	BERK_T5	0	0	0	0	0	0	3.94	4.57	3	3	0	900	900	0
7/22/2024 13:28	61701	ELIZ_T1	1	1	0	4.3	5.3	1	1.47	1.41	0	0	0	0	0	0
7/22/2024 13:28	52403	GRPA_T2	10	34	24	0.8	0.59	-0.21	-0.09	-0.08	0	0	0	0	0	0
7/22/2024 13:31	61703	ELIZ_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
7/22/2024 13:31	61701	ELIZ_T1	1	1	0	4.9	5.7	0.8	1.47	1.41	0	0	0	0	0	0
7/22/2024 13:33	52403	GRPA_T2	13	37	24	0.65	0.35	-0.3	-0.09	-0.08	0	0	0	0	0	0
7/22/2024 13:33	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 13:34	64101	REFR_T1	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
7/22/2024 13:35	64101	REFR_T1	0	0	0	0	0	0	0.79	0.83	0	0	0	0	0	0
7/22/2024 13:36	64101	REFR_T1	0	0	0	0	0	0	1.67	1.52	0	0	0	0	0	0
7/22/2024 13:37	64101	REFR_T1	0	0	0	0	0	0	0.83	0.76	0	0	0	0	0	0
7/22/2024 13:42	61703	ELIZ_T1	0	3	3	0	0.13	0.13	-1.27	-1.23	1	1	0	900	900	0
7/22/2024 13:42	61701	ELIZ_T1	1	1	0	4.9	5.7	0.8	0	0	0	0	0	0	0	0
7/22/2024 13:44	46101	MACI_T2	0	0	0	0	0	0	-0.8	-1.04	2	2	0	2400	2400	0
7/22/2024 13:55	60803	BUCK_T1	13	15	2	0.26	0.36	0.1	0	0	0	0	0	0	0	0
7/22/2024 13:55	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/22/2024 13:55	54503	ENOL_T2	0	0	0	0	0	0	-0.88	-0.91	1	1	0	600	600	0
7/22/2024 13:55	60801	BUCK_T1	0	0	0	0	0	0	0.3	0.33	0	0	0	0	0	0
7/22/2024 13:57	54501	ENOL_T2	0	0	0	0	0	0	-0.2	-0.18	1	1	0	600	600	0
7/22/2024 13:57	63501	HEID_TBK1-2	0	0	0	0	0	0	0.83	0.82	1	1	0	900	900	0
7/22/2024 13:57	54503	ENOL_T2	0	0	0	0	0	0	-1.75	-1.82	2	2	0	1200	1200	0
7/22/2024 13:58	54501	ENOL_T2	0	0	0	0	0	0	-0.2	-0.18	1	1	0	600	600	0
7/22/2024 13:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/22/2024 13:58	54503	ENOL_T2	0	0	0	0	0	0	-0.88	-0.91	1	1	0	600	600	0
7/22/2024 13:59	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 13:59	46101	MACI_T2	0	0	0	0	0	0	-1.04	-1.06	2	2	0	2400	2400	0
7/22/2024 13:59	54503	ENOL_T2	0	0	0	0	0	0	-0.88	-0.91	1	1	0	600	600	0
7/22/2024 13:59	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 13:59	52403	GRPA_T2	33	18	-15	0.62	0.53	-0.09	-0.11	-0.1	0	0	0	0	0	0
7/22/2024 14:00	54503	ENOL_T2	0	0	0	0	0	0	-0.88	-0.91	1	1	0	600	600	0
7/22/2024 14:01	13503	MCMI_T2	22	15	-7	0.16	0.23	0.07	-0.73	-0.69	0	0	0	0	0	0
7/22/2024 14:01	11804	FRAN_T1	206	148	-58	0.73	0.4	-0.33	1.23	1.22	0	0	0	0	0	0
7/22/2024 14:04	13503	MCMI_T2	22	15	-7	0.16	0.23	0.07	-0.73	-0.69	0	0	0	0	0	0
7/22/2024 14:05	13503	MCMI_T2	22	15	-7	0.16	0.23	0.07	-0.73	-0.69	0	0	0	0	0	0
7/22/2024 14:08	67603	WARW_T1	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
7/22/2024 14:08	56802	BENV_T2	0	1	1	0	0.6	0.6	-2.06	-1.92	0	0	0	0	0	0
7/22/2024 14:09	67801	WLAN_T1	0	2	2	0	0	0	0.57	0.47	0	0	0	0	0	0
7/22/2024 14:09	67804	WLAN_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
7/22/2024 14:09	56803	BENV_T1	2	1	-1	1.1	2.1	1	0	0	0	0	0	0	0	0
7/22/2024 14:09	56801	BENV_T1	6	7	1	0.45	0.71	0.26	-0.42	-0.43	1	1	0	600	600	0
7/22/2024 14:11	56802	BENV_T2	0	1	1	0	0.6	0.6	-2.06	-1.92	0	0	0	0	0	0
7/22/2024 14:12	56802	BENV_T2	0	1	1	0	0.6	0.6	-1.03	-0.96	0	0	0	0	0	0
7/22/2024 14:15	52002	LING_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
7/22/2024 14:15	64305	LINC_T1	1	1	0	0.8	1	0.2	0.29	0.2	0	0	0	0	0	0
7/22/2024 14:15	52004	LING_T2	2	2	0	5.15	5.3	0.15	0	0	0	0	0	0	0	0
7/22/2024 14:17	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 14:17	55002	NEWP_T1	3	1	-2	0.17	0.2	0.03	-0.07	-0.04	0	0	0	0	0	0
7/22/2024 14:19	44201	POIN_T1	0	1	1	0	0.1	0.1	-1.72	-2.05	2	2	0	2100	2100	0
7/22/2024 14:19	55002	NEWP_T1	3	1	-2	0.17	0.2	0.03	-0.14	-0.08	0	0	0	0	0	0
7/22/2024 14:19	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 14:21	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 14:21	55002	NEWP_T1	3	1	-2	0.17	0.2	0.03	-0.07	-0.04	0	0	0	0	0	0
7/22/2024 14:40	54504	ENOL_T2	0	0	0	0	0	0	-0.73	-0.74	1	1	0	600	600	0
7/22/2024 14:41	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/22/2024 14:51	24101	EHAZ_T1	23	23	0	0.87	0.52	-0.35	0	0	0	0	0	0	0	0
7/22/2024 14:51	24105	EHAZ_T1	5	5	0	6.73	6.68	-0.05	0	0	0	0	0	0	0	0
7/22/2024 14:51	24102	EHAZ_T1	0	0	0	0	0	0	0.16	-0.38	0	0	0	0	0	0
7/22/2024 14:52	44201	POIN_T1	1	0	-1	0.1	0	-0.1	-1.99	-1.93	2	2	0	2100	2100	0
7/22/2024 15:00	54505	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/22/2024 15:00	54501	ENOL_T2	0	0	0	0	0	0	-0.19	-0.18	1	1	0	600	600	0
7/22/2024 15:02	48302	ORWI_T2	0	0	0	0	0	0	-0.11	-0.18	0	0	0	0	0	0
7/22/2024 15:07	55102	WERT_T2	0	0	0	0	0	0	-0.65	-0.57	1	1	0	600	600	0
7/22/2024 15:10	61101	BERK_T5	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
7/22/2024 15:11	42701	AUGU_T1	1	1	0	0.2	0.2	0	0	0	2	2	0	1800	1800	0
7/22/2024 15:17	52503	PROG_T2	0	0	0	0	0	0	-0.18	-0.11	1	1	0	900	900	0
7/22/2024 15:22	52503	PROG_T2	0	0	0	0	0	0	-0.11	-0.21	1	1	0	900	900	0
7/22/2024 15:22	49804	UNIV_T1	0	0	0	0	0	0	0.86	1.03	0	0	0	0	0	0
7/22/2024 15:24	43402	BENT_T1	0	3	3	0	0	0	-0.94	-1	2	2	0	1800	1800	0
7/22/2024 15:26	40801	EXCH_T2	3	3	0	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
7/22/2024 15:26	40802	EXCH_T2	1	2	1	0.2	0.1	-0.1	-0.46	0.21	0	0	0	0	0	0
7/22/2024 15:32	52004	LING_T2	2	2	0	5.35	5.6	0.25	0.49	0.47	0	0	0	0	0	0
7/22/2024 15:42	40504	CRES_T1	0	0	0	0	0	0	-1.33	-1.31	0	0	0	0	0	0
7/22/2024 15:42	40505	CRES_T1	3	3	0	2.9	3.23	0.33	0	0	0	0	0	0	0	0
7/22/2024 15:43	40505	CRES_T1	3	3	0	2.9	3.23	0.33	0	0	0	0	0	0	0	0
7/22/2024 15:43	40504	CRES_T1	0	0	0	0	0	0	-1.33	-1.31	0	0	0	0	0	0
7/22/2024 15:44	58003	WCAR_T1	37	30	-7	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
7/22/2024 15:44	54505	ENOL_T2	1	1	0	0.2	0.3	0.1	-0.9	-0.93	1	1	0	600	600	0
7/22/2024 15:44	58001	WCAR_T1	7	6	-1	0.89	0.82	-0.07	0.27	0.26	0	0	0	0	0	0
7/22/2024 15:45	54505	ENOL_T2	1	1	0	0.3	0.3	0	-0.9	-0.93	1	1	0	600	600	0
7/22/2024 15:45	46101	MACI_T2	0	0	0	0	0	0	0.07	-0.05	1	1	0	1200	1200	0
7/22/2024 15:53	52004	LING_T2	2	2	0	5.6	5.45	-0.15	0	0	0	0	0	0	0	0
7/22/2024 15:53	52002	LING_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
7/22/2024 15:58	63803	HEMP_T1	0	1	1	0	0.1	0.1	0.61	0.57	0	0	0	0	0	0
7/22/2024 15:58	63804	HEMP_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
7/22/2024 15:59	20601	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 15:59	20603	GRWO_T2	0	0	0	0	0	0	-0.35	-0.36	1	1	0	900	900	0
7/22/2024 15:59	20602	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 16:01	63305	GREE_T1	2	6	4	0	0.2	0.2	-1.61	-1.6	1	1	0	900	900	0
7/22/2024 16:03	47401	PENS_T1	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
7/22/2024 16:03	47402	PENS_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/22/2024 16:06	40601	PIGR_T1	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
7/22/2024 16:17	64202	KINZ_T1	3	3	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
7/22/2024 16:17	64203	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/22/2024 16:17	64201	KINZ_T1	0	1	1	0	0.3	0.3	-0.63	-0.65	4	4	0	2100	2100	0
7/22/2024 16:17	64204	KINZ_T1	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
7/22/2024 16:21	48302	ORWI_T2	2	2	0	0.2	0.2	0	-0.2	-0.26	0	0	0	0	0	0
7/22/2024 16:21	24801	VALM_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
7/22/2024 16:29	43402	BENT_T1	0	0	0	0	0	0	-0.61	-0.58	1	1	0	900	900	0
7/22/2024 16:29	20603	GRWO_T2	0	0	0	0	0	0	-0.42	-0.41	1	1	0	900	900	0
7/22/2024 16:29	20601	GRWO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/22/2024 16:36	24801	VALM_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
7/22/2024 16:37	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 16:38	42503	ALTA_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
7/22/2024 16:45	64201	KINZ_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/22/2024 16:45	64204	KINZ_T1	1	1	0	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
7/22/2024 16:45	64203	KINZ_T1	0	0	0	0	0	0	0.28	0.55	3	2	-1	2100	1800	-300
7/22/2024 16:45	64202	KINZ_T1	3	3	0	0.2	0.27	0.07	0	0	0	0	0	0	0	0
7/22/2024 16:49	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	-0.88	-0.89	1	1	0	600	600	0
7/22/2024 16:57	63802	HEMP_T1	0	0	0	0	0	0	0.51	0.58	0	0	0	0	0	0
7/22/2024 16:57	63804	HEMP_T1	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
7/22/2024 17:01	63804	HEMP_T1	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
7/22/2024 17:01	63802	HEMP_T1	0	0	0	0	0	0	0.51	0.58	0	0	0	0	0	0
7/22/2024 17:13	23203	HIRU_T2	3	2	-1	0.1	0.1	0	0.2	0.2	0	0	0	0	0	0
7/22/2024 17:13	23201	HIRU_T2	5	4	-1	0.14	0.18	0.04	0	0	0	0	0	0	0	0
7/22/2024 17:16	46102	MACI_T1	0	0	0	0	0	0	0.95	0.94	0	0	0	0	0	0
7/22/2024 17:25	20401	ASHF_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/22/2024 17:25	20403	ASHF_T2	7	13	6	0.67	0.2	-0.47	1	1	0	0	0	0	0	0
7/22/2024 17:27	20401	ASHF_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/22/2024 17:27	20403	ASHF_T2	7	13	6	0.67	0.2	-0.47	1	1	0	0	0	0	0	0
7/22/2024 17:31	64204	KINZ_T1	1	1	0	0.5	1.3	0.8	0	0	0	0	0	0	0	0
7/22/2024 17:31	64202	KINZ_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/22/2024 17:31	64201	KINZ_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/22/2024 17:31	64203	KINZ_T1	0	0	0	0	0	0	0.27	0.27	1	1	0	600	600	0
7/22/2024 17:32	52004	LING_T2	2	2	0	5	5.3	0.3	0.35	0.35	0	0	0	0	0	0
7/22/2024 17:35	65603	QVIL_T2	0	0	0	0	0	0	0.46	0.5	0	0	0	0	0	0
7/22/2024 17:35	65601	QVIL_T2	2	4	2	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/22/2024 17:35	65604	QVIL_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
7/22/2024 17:35	22701	MINO_T1	0	0	0	0	0	0	-0.32	-0.32	1	1	0	600	600	0
7/22/2024 17:43	43108	SMIL_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
7/22/2024 17:43	43101	SMIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/22/2024 17:44	63304	GREE_T1	2	10	8	0.1	0.15	0.05	0	0	0	0	0	0	0	0
7/22/2024 17:44	63306	GREE_T1	0	0	0	0	0	0	-1.67	-1.68	1	1	0	900	900	0
7/22/2024 17:44	63305	GREE_T1	3	7	4	0.2	0.34	0.14	0	0	0	0	0	0	0	0
7/22/2024 17:45	65603	QVIL_T2	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/22/2024 17:45	65604	QVIL_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/22/2024 17:45	65601	QVIL_T2	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/22/2024 17:49	41901	REED_T1	8	9	1	0.21	0.43	0.22	0	0	0	0	0	0	0	0
7/22/2024 17:49	41902	REED_T1	7	1	-6	0.83	0	-0.83	0	0	0	0	0	0	0	0
7/22/2024 17:49	41903	REED_T1	0	0	0	0	0	0	0.3	0.31	1	1	0	1200	1200	0
7/22/2024 17:50	65601	QVIL_T2	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/22/2024 17:50	65603	QVIL_T2	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
7/22/2024 17:50	61102	BERK_T5	0	0	0	0	0	0	1.32	1.12	1	1	0	300	300	0
7/22/2024 17:50	65604	QVIL_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/22/2024 17:55	22003	BOHE_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/22/2024 17:55	22001	BOHE_T1	0	0	0	0	0	0	0.02	-0.06	1	1	0	600	600	0
7/22/2024 18:00	22002	BOHE_T1	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
7/22/2024 18:10	22001	BOHE_T1	0	0	0	0	0	0	-0.06	-0.02	1	1	0	600	600	0
7/22/2024 18:10	22002	BOHE_T1	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
7/22/2024 18:11	10705	CATA_T2	0	0	0	0	0	0	-1.44	-1.48	1	1	0	900	900	0
7/22/2024 18:13	28102	TWLA_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
7/22/2024 18:28	63306	GREE_T1	0	0	0	0	0	0	-1.74	-1.71	1	1	0	900	900	0
7/22/2024 18:28	63304	GREE_T1	12	16	4	0.18	0.18	0	0	0	0	0	0	0	0	0
7/22/2024 18:28	63305	GREE_T1	8	13	5	0.31	0.39	0.08	0	0	0	0	0	0	0	0
7/22/2024 18:31	61801	EELI_T2	2	5	3	0.85	0.56	-0.29	0	0	0	0	0	0	0	0
7/22/2024 18:31	61802	EELI_T2	0	0	0	0	0	0	0.29	0.34	0	0	0	0	0	0
7/22/2024 18:33	64204	KINZ_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
7/22/2024 18:33	64201	KINZ_T1	0	0	0	0	0	0	-0.31	-0.31	3	3	0	1500	1500	0
7/22/2024 18:34	65804	RTWN_T1	0	0	0	0	0	0	1.82	1.8	2	2	0	1200	1200	0
7/22/2024 18:40	15103	UPHA_T2	0	0	0	0	0	0	0.96	0.94	0	0	0	0	0	0
7/22/2024 18:45	24702	FLND_T2	0	0	0	0	0	0	0.17	0.28	1	1	0	1200	1200	0
7/22/2024 18:48	65206	PRIN_T4	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 18:48	65207	PRIN_T4	2	2	0	0.65	0.6	-0.05	0	0	2	2	0	1800	1800	0
7/22/2024 19:04	67002	STHI_T2	0	0	0	0	0	0	1.42	1.31	0	0	0	0	0	0
7/22/2024 19:04	67001	STHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/22/2024 19:07	60301	TWVA_T2	0	0	0	0	0	0	-2.48	-2.49	2	2	0	1800	1800	0
7/22/2024 19:11	42501	ALTA_T2	0	0	0	0	0	0	-0.95	-0.91	1	1	0	600	600	0
7/22/2024 19:14	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 19:14	40502	CRES_T2	0	3	3	0	0.13	0.13	-0.39	-0.41	0	0	0	0	0	0
7/22/2024 19:29	62102	ELAN_T1	0	0	0	0	0	0	1.57	1.49	0	0	0	0	0	0
7/22/2024 19:35	22701	MINO_T1	0	0	0	0	0	0	-0.44	-0.48	1	1	0	600	600	0
7/22/2024 20:12	24102	EHAZ_T1	1	19	18	1.1	0.1	-1	0.95	1	0	0	0	0	0	0
7/22/2024 20:12	24105	EHAZ_T1	4	4	0	6.1	6.05	-0.05	0	0	0	0	0	0	0	0
7/22/2024 20:29	61301	EARL_T1	0	0	0	0	0	0	-0.66	-0.67	1	1	0	900	900	0
7/22/2024 21:25	56501	ROCK_T2	9	4	-5	0.3	0.2	-0.1	-0.2	-0.33	0	0	0	0	0	0
7/22/2024 21:26	44201	POIN_T1	22	22	0	0.15	0.11	-0.04	-2.12	-2.05	2	2	0	2100	2100	0
7/22/2024 21:26	56501	ROCK_T2	9	4	-5	0.3	0.2	-0.1	-0.1	-0.17	0	0	0	0	0	0
7/22/2024 21:41	46206	DANV_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/22/2024 21:41	46203	DANV_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
7/22/2024 21:41	44801	EDAN_T2	47	62	15	0.41	0.34	-0.07	-1.46	-1.47	0	0	0	0	0	0
7/22/2024 21:45	58402	MORO_T1	343	353	10	2.27	1.98	-0.29	0.51	0.49	3	3	0	1650	1650	0
7/22/2024 21:46	58006	WCAR_T2	0	0	0	0	0	0	0.55	0.57	0	0	0	0	0	0
7/22/2024 21:49	13303	ORVI_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
7/22/2024 21:49	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 21:49	43302	WATS_T2	4	4	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
7/22/2024 21:49	43301	WATS_T2	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
7/22/2024 21:50	41903	REED_T1	0	0	0	0	0	0	0.05	0.08	1	1	0	1200	1200	0
7/22/2024 21:50	41902	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/22/2024 21:50	28704	HAML_T2	1	1	0	0.3	0.3	0	0.05	0.04	0	0	0	0	0	0
7/22/2024 21:50	56801	BENV_T1	8	4	-4	0.54	0.43	-0.11	-0.55	-0.58	1	1	0	600	600	0
7/22/2024 21:50	41901	REED_T1	9	9	0	0.63	0.68	0.05	0	0	0	0	0	0	0	0
7/22/2024 21:50	46206	DANV_T2	1	0	-1	0.2	0	-0.2	2.06	2.02	2	2	0	2100	2100	0
7/22/2024 21:51	55101	WERT_T1	0	0	0	0	0	0	-1.82	-1	3	2	-1	2400	1500	-900
7/22/2024 21:51	55103	WERT_T1	1	1	0	3.6	4.4	0.8	0	0	0	0	0	0	0	0
7/22/2024 21:52	46206	DANV_T2	1	0	-1	0.2	0	-0.2	2.02	1.94	2	2	0	2100	2100	0
7/22/2024 21:52	58003	WCAR_T1	53	15	-38	0.27	0.22	-0.05	0.92	0.87	0	0	0	0	0	0
7/22/2024 21:52	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 21:52	58001	WCAR_T1	9	5	-4	0.77	0.9	0.13	0	0	0	0	0	0	0	0
7/22/2024 21:52	29402	BELT_T1	1	1	0	7.6	7.6	0	0	0	0	0	0	0	0	0
7/22/2024 21:54	13301	ORVI_T1	0	0	0	0	0	0	-0.32	-0.44	0	0	0	0	0	0
7/22/2024 21:55	23202	HIRU_T2	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
7/22/2024 21:55	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 21:55	24902	WHHA_T1	2	1	-1	0.9	0.7	-0.2	1.7	1.68	0	0	0	0	0	0
7/22/2024 21:56	55002	NEWP_T1	6	6	0	1	0.92	-0.08	-0.17	-0.17	0	0	0	0	0	0
7/22/2024 21:56	29402	BELT_T1	1	1	0	7.6	7.6	0	0	0	0	0	0	0	0	0
7/22/2024 21:56	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 21:56	16902	MECK_T1	0	1	1	0	0.1	0.1	0.17	0.17	0	0	0	0	0	0
7/22/2024 21:56	56501	ROCK_T2	1	3	2	0.1	0.3	0.2	-0.2	-0.23	0	0	0	0	0	0
7/22/2024 21:57	58003	WCAR_T1	53	15	-38	0.27	0.22	-0.05	0.92	0.87	0	0	0	0	0	0
7/22/2024 21:57	58001	WCAR_T1	9	5	-4	0.77	0.9	0.13	0	0	0	0	0	0	0	0
7/22/2024 21:57	54505	ENOL_T2	1	1	0	0.9	0.5	-0.4	-0.99	-1	1	1	0	600	600	0
7/22/2024 21:58	54503	ENOL_T2	0	0	0	0	0	0	-0.99	-1.05	1	1	0	600	600	0
7/22/2024 21:58	54504	ENOL_T2	0	0	0	0	0	0	-0.88	-0.85	1	1	0	600	600	0
7/22/2024 21:58	54505	ENOL_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
7/22/2024 21:58	56802	BENV_T2	23	1	-22	0.14	0.4	0.26	-0.45	-1.14	0	0	0	0	0	0
7/22/2024 21:59	56802	BENV_T2	23	1	-22	0.14	0.4	0.26	-0.45	-1.14	0	0	0	0	0	0
7/22/2024 21:59	55101	WERT_T1	0	0	0	0	0	0	-1	-1	2	2	0	1500	1500	0
7/22/2024 21:59	55103	WERT_T1	1	1	0	3.6	4.4	0.8	0	0	0	0	0	0	0	0
7/22/2024 22:00	56802	BENV_T2	1	1	0	0.4	0.4	0	-0.89	-2.29	0	0	0	0	0	0
7/22/2024 22:00	52004	LING_T2	2	2	0	5.45	5.3	-0.15	0.3	0.3	0	0	0	0	0	0
7/22/2024 22:00	20603	GRWO_T2	21	9	-12	0.2	0.16	-0.04	-0.48	-0.49	1	1	0	900	900	0
7/22/2024 22:01	55102	WERT_T2	0	0	0	0	0	0	-0.34	-0.35	1	1	0	600	600	0
7/22/2024 22:02	61101	BERK_T5	0	0	0	0	0	0	-0.57	-1.25	0	0	0	0	0	0
7/22/2024 22:02	43302	WATS_T2	4	4	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
7/22/2024 22:02	56501	ROCK_T2	3	1	-2	0.3	0.7	0.4	-0.2	-0.23	0	0	0	0	0	0
7/22/2024 22:02	64302	LINC_T2	0	0	0	0	0	0	1.27	1.2	0	0	0	0	0	0
7/22/2024 22:02	43304	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/22/2024 22:03	54503	ENOL_T2	0	0	0	0	0	0	-0.99	-1.05	1	1	0	600	600	0
7/22/2024 22:03	54505	ENOL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/22/2024 22:03	56802	BENV_T2	1	1	0	0.4	0.4	0	-0.45	-1.14	0	0	0	0	0	0
7/22/2024 22:04	28102	TWLA_T2	1	2	1	0.3	0.15	-0.15	0.29	0.27	0	0	0	0	0	0
7/22/2024 22:04	29402	BELT_T1	1	1	0	7.5	7.6	0.1	0	0	0	0	0	0	0	0
7/22/2024 22:04	56802	BENV_T2	1	1	0	0.4	0.4	0	-0.45	-1.14	0	0	0	0	0	0
7/22/2024 22:05	43302	WATS_T2	4	4	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
7/22/2024 22:05	54505	ENOL_T2	1	0	-1	0.5	0	-0.5	-0.99	-1	1	1	0	600	600	0
7/22/2024 22:05	43103	SMIL_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/22/2024 22:05	40802	EXCH_T2	3	0	-3	0.1	0	-0.1	-0.11	-0.13	0	0	0	0	0	0
7/22/2024 22:05	52501	PROG_T1	0	0	0	0	0	0	0.31	0.28	1	1	0	300	300	0
7/22/2024 22:05	43102	SMIL_T2	6	2	-4	0.58	0.1	-0.48	0	0	0	0	0	0	0	0
7/22/2024 22:05	54501	ENOL_T2	0	0	0	0	0	0	-0.28	-0.26	1	1	0	600	600	0
7/22/2024 22:05	55101	WERT_T1	0	0	0	0	0	0	-3	-2.99	6	6	0	4500	4500	0
7/22/2024 22:05	54503	ENOL_T2	0	0	0	0	0	0	-0.99	-1.05	1	1	0	600	600	0
7/22/2024 22:05	55103	WERT_T1	1	1	0	4.7	4.4	-0.3	0	0	0	0	0	0	0	0
7/22/2024 22:05	55102	WERT_T2	0	0	0	0	0	0	-0.34	-0.35	1	1	0	600	600	0
7/22/2024 22:05	40801	EXCH_T2	3	0	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/22/2024 22:05	43108	SMIL_T2	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
7/22/2024 22:05	56802	BENV_T2	1	1	0	0.4	0.4	0	-0.45	-1.14	0	0	0	0	0	0
7/22/2024 22:05	43105	SMIL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/22/2024 22:05	52004	LING_T2	2	2	0	5.45	5.3	-0.15	0.3	0.3	0	0	0	0	0	0
7/22/2024 22:05	43304	WATS_T2	1	0	-1	0.2	0	-0.2	-0.05	-0.07	0	0	0	0	0	0
7/22/2024 22:06	52503	PROG_T2	0	0	0	0	0	0	-0.44	-0.46	1	1	0	900	900	0
7/22/2024 22:06	55103	WERT_T1	1	1	0	4.7	4.4	-0.3	0	0	0	0	0	0	0	0
7/22/2024 22:06	55101	WERT_T1	0	0	0	0	0	0	-1	-1	2	2	0	1500	1500	0
7/22/2024 22:07	43202	MVIL_T2	56	69	13	0.47	0.6	0.13	-0.59	-0.6	0	0	0	0	0	0
7/22/2024 22:07	52501	PROG_T1	0	0	0	0	0	0	0.28	0.3	1	1	0	300	300	0
7/22/2024 22:07	13503	MCMI_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
7/22/2024 22:08	52403	GRPA_T2	0	1	1	0	0	0	0.29	0.26	0	0	0	0	0	0
7/22/2024 22:08	54505	ENOL_T2	1	0	-1	0.5	0	-0.5	-1	-1.01	1	1	0	600	600	0
7/22/2024 22:08	56801	BENV_T1	4	3	-1	0.43	1.2	0.77	-0.6	-0.57	1	1	0	600	600	0
7/22/2024 22:08	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/22/2024 22:08	52402	GRPA_T2	3	2	-1	0.83	0.1	-0.73	0	0	0	0	0	0	0	0
7/22/2024 22:08	54501	ENOL_T2	0	0	0	0	0	0	-0.26	-0.27	1	1	0	600	600	0
7/22/2024 22:09	64201	KINZ_T1	14	3	-11	0.34	0.4	0.06	0	0	0	0	0	0	0	0
7/22/2024 22:09	64203	KINZ_T1	0	0	0	0	0	0	0.78	0.7	0	0	0	0	0	0
7/22/2024 22:09	64204	KINZ_T1	20	1	-19	0.23	0.5	0.27	0	0	0	0	0	0	0	0
7/22/2024 22:09	64202	KINZ_T1	9	0	-9	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/22/2024 22:10	25503	MADI_T1	57	90	33	0.23	0.29	0.06	-0.74	-0.72	0	0	0	0	0	0
7/22/2024 22:10	24801	VALM_T1	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
7/22/2024 22:10	54503	ENOL_T2	0	0	0	0	0	0	-1.05	-1.05	1	1	0	600	600	0
7/22/2024 22:10	54505	ENOL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/22/2024 22:10	24702	FLND_T2	0	0	0	0	0	0	-0.11	-0.32	1	1	0	1200	1200	0
7/22/2024 22:11	22002	BOHE_T1	0	0	0	0	0	0	0.4	0.36	0	0	0	0	0	0
7/22/2024 22:12	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 22:12	20401	ASHF_T2	3	2	-1	0.4	0.55	0.15	0.06	0.05	0	0	0	0	0	0
7/22/2024 22:12	56802	BENV_T2	1	1	0	0.4	0.4	0	-1.14	-1.17	0	0	0	0	0	0
7/22/2024 22:12	11104	EGYP_T1	2	2	0	0.2	0.25	0.05	0.43	0.39	0	0	0	0	0	0
7/22/2024 22:12	20402	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/22/2024 22:12	23203	HIRU_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
7/22/2024 22:12	40502	CRES_T2	7	1	-6	0.19	0.1	-0.09	-0.59	-0.62	0	0	0	0	0	0
7/22/2024 22:12	44801	EDAN_T2	57	136	79	0.35	0.31	-0.04	-1.48	-1.45	0	0	0	0	0	0
7/22/2024 22:13	64201	KINZ_T1	14	3	-11	0.34	0.4	0.06	-0.01	0.7	2	1	-1	1200	300	-900
7/22/2024 22:13	60803	BUCK_T1	29	29	0	0.53	0.64	0.11	0	0	0	0	0	0	0	0
7/22/2024 22:13	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
7/22/2024 22:13	56802	BENV_T2	1	1	0	0.4	0.4	0	-1.14	-1.17	0	0	0	0	0	0
7/22/2024 22:13	46101	MACI_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
7/22/2024 22:13	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 22:13	64204	KINZ_T1	20	1	-19	0.23	0.5	0.27	0	0	0	0	0	0	0	0
7/22/2024 22:13	64202	KINZ_T1	9	0	-9	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/22/2024 22:13	60801	BUCK_T1	64	85	21	0.42	0.54	0.12	-0.1	-0.11	0	0	0	0	0	0
7/22/2024 22:13	48302	ORWI_T2	2	2	0	1.25	0.95	-0.3	-0.49	-0.51	0	0	0	0	0	0
7/22/2024 22:14	52402	GRPA_T2	3	2	-1	0.83	0.1	-0.73	0	0	0	0	0	0	0	0
7/22/2024 22:14	11804	FRAN_T1	6	15	9	0.22	0.25	0.03	0.35	0.32	0	0	0	0	0	0
7/22/2024 22:14	61102	BERK_T5	0	0	0	0	0	0	-1	-1.2	8	8	0	4800	4800	0
7/22/2024 22:14	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 22:14	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	-0.05	-0.12	0	0	0	0	0	0
7/22/2024 22:15	43202	MVIL_T2	52	91	39	0.44	0.67	0.23	-0.59	-0.6	0	0	0	0	0	0
7/22/2024 22:15	15703	TANN_T2	1	1	0	5.2	4.9	-0.3	0	0	0	0	0	0	0	0
7/22/2024 22:15	55001	NEWP_T1	0	0	0	0	0	0	-0.17	-0.23	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/22/2024 22:15	15702	TANN_T2	0	0	0	0	0	0	-0.19	-0.18	0	0	0	0	0	0
7/22/2024 22:15	60502	NMAN_T2	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
7/22/2024 22:15	61701	ELIZ_T1	1	1	0	4.2	4.7	0.5	1.93	1.9	0	0	0	0	0	0
7/22/2024 22:15	63804	HEMP_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
7/22/2024 22:15	61102	BERK_T5	0	0	0	0	0	0	-0.25	-0.3	2	2	0	1200	1200	0
7/22/2024 22:15	60301	TWVA_T2	0	0	0	0	0	0	-2.82	-2.9	2	2	0	1800	1800	0
7/22/2024 22:15	13503	MCMI_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
7/22/2024 22:15	65804	RTWN_T1	0	0	0	0	0	0	0.57	0.56	1	1	0	600	600	0
7/22/2024 22:15	55002	NEWP_T1	2	3	1	0.75	0.93	0.18	0	0	0	0	0	0	0	0
7/22/2024 22:16	61102	BERK_T5	0	0	0	0	0	0	-0.25	-0.3	2	2	0	1200	1200	0
7/22/2024 22:16	52404	GRPA_T2	0	0	0	0	0	0	-0.05	-0.12	0	0	0	0	0	0
7/22/2024 22:16	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/22/2024 22:16	44201	POIN_T1	4	3	-1	0.18	0.1	-0.08	-2.1	-2.12	2	2	0	2100	2100	0
7/22/2024 22:16	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/22/2024 22:16	52402	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/22/2024 22:16	11104	EGYP_T1	0	2	2	0	0.25	0.25	0.43	0.39	0	0	0	0	0	0
7/22/2024 22:16	61801	EELI_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
7/22/2024 22:16	61802	EELI_T2	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
7/22/2024 22:16	65001	NEFF_T2	0	0	0	0	0	0	-0.58	-0.56	1	1	0	1200	1200	0
7/22/2024 22:17	52004	LING_T2	2	2	0	5.2	5.6	0.4	0	0	0	0	0	0	0	0
7/22/2024 22:17	10705	CATA_T2	0	0	0	0	0	0	-1.76	-1.77	1	1	0	900	900	0
7/22/2024 22:17	52002	LING_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
7/22/2024 22:17	65004	NEFF_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
7/22/2024 22:17	64101	REFR_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
7/22/2024 22:17	55002	NEWP_T1	2	3	1	0.75	0.93	0.18	-0.17	-0.18	0	0	0	0	0	0
7/22/2024 22:18	40601	PIGR_T1	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0
7/22/2024 22:18	65604	QVIL_T2	3	3	0	0.47	0.5	0.03	0	0	0	0	0	0	0	0
7/22/2024 22:18	40602	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/22/2024 22:18	65603	QVIL_T2	55	144	89	0.17	0.16	-0.01	0.24	0.21	0	0	0	0	0	0
7/22/2024 22:18	65602	QVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/22/2024 22:18	46101	MACI_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
7/22/2024 22:18	65601	QVIL_T2	42	81	39	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
7/22/2024 22:19	55002	NEWP_T1	2	3	1	0.75	0.93	0.18	-0.17	-0.18	0	0	0	0	0	0
7/22/2024 22:19	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
7/22/2024 22:19	67505	WEWI_T1	0	0	0	0	0	0	0.35	0.33	1	1	0	900	900	0
7/22/2024 22:19	64201	KINZ_T1	3	1	-2	0.4	0.9	0.5	-0.01	0.7	2	1	-1	1200	300	-900
7/22/2024 22:19	59101	WALK_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
7/22/2024 22:19	67002	STHI_T2	0	0	0	0	0	0	1.05	1.04	0	0	0	0	0	0
7/22/2024 22:19	64204	KINZ_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/22/2024 22:19	65401	MARI_T1	0	0	0	0	0	0	-0.49	-0.55	0	0	0	0	0	0
7/22/2024 22:20	61301	EARL_T1	0	0	0	0	0	0	-0.71	-0.72	1	1	0	900	900	0
7/22/2024 22:20	55002	NEWP_T1	2	3	1	0.75	0.93	0.18	-0.17	-0.18	0	0	0	0	0	0
7/22/2024 22:20	42501	ALTA_T2	0	0	0	0	0	0	-1.02	-0.98	1	1	0	600	600	0
7/22/2024 22:21	63802	HEMP_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
7/22/2024 22:21	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.88	1	1	0	900	900	0
7/22/2024 22:21	15103	UPHA_T2	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
7/22/2024 22:21	63804	HEMP_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
7/22/2024 22:21	63501	HEID_TBK1-2	2	1	-1	0.3	0.4	0.1	-0.14	-0.15	1	1	0	900	900	0
7/22/2024 22:22	40902	JESH_T1	0	1	1	0	0	0	-0.52	-0.6	0	0	0	0	0	0
7/22/2024 22:22	64101	REFR_T1	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
7/22/2024 22:22	67602	WARW_T2	0	0	0	0	0	0	0.95	0.91	2	2	0	1500	1500	0
7/22/2024 22:22	45702	LIND_T2	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
7/22/2024 22:22	48302	ORWI_T2	2	2	0	0.95	1.15	0.2	-0.51	-0.52	0	0	0	0	0	0
7/22/2024 22:22	63303	GREE_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/22/2024 22:22	67603	WARW_T1	0	0	0	0	0	0	0.15	0.09	0	0	0	0	0	0
7/22/2024 22:22	65401	MARI_T1	0	0	0	0	0	0	-0.55	-0.58	0	0	0	0	0	0
7/22/2024 22:22	15703	TANN_T2	1	1	0	5.2	4.9	-0.3	0	0	0	0	0	0	0	0
7/22/2024 22:22	63305	GREE_T1	15	15	0	0.35	0.29	-0.06	0	0	0	0	0	0	0	0
7/22/2024 22:22	63306	GREE_T1	0	0	0	0	0	0	-1.33	-1.38	1	1	0	900	900	0
7/22/2024 22:22	67605	WARW_T1	1	1	0	0.3	0.5	0.2	-1.1	-1.14	0	0	0	0	0	0
7/22/2024 22:22	15702	TANN_T2	0	0	0	0	0	0	-0.18	-0.23	0	0	0	0	0	0
7/22/2024 22:22	40901	JESH_T1	1	0	-1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
7/22/2024 22:23	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	0.26	0.27	0	0	0	0	0	0
7/22/2024 22:23	63804	HEMP_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
7/22/2024 22:23	63802	HEMP_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
7/22/2024 22:23	65207	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
7/22/2024 22:23	64101	REFR_T1	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
7/22/2024 22:23	52402	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/22/2024 22:23	65206	PRIN_T4	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/22/2024 22:23	20603	GRWO_T2	5	20	15	0.18	0.18	0	-0.52	-0.49	1	1	0	900	900	0
7/22/2024 22:23	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/22/2024 22:24	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	0.26	0.27	0	0	0	0	0	0
7/22/2024 22:24	52402	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/22/2024 22:24	20403	ASHF_T2	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
7/22/2024 22:24	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/22/2024 22:24	11904	ETEX_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
7/22/2024 22:24	40802	EXCH_T2	0	0	0	0	0	0	-0.12	-0.17	0	0	0	0	0	0
7/22/2024 22:24	64101	REFR_T1	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
7/22/2024 22:24	20401	ASHF_T2	2	4	2	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
7/22/2024 22:25	66505	SMAN_T2	0	0	0	0	0	0	-0.44	-0.16	6	6	0	4200	4200	0
7/22/2024 22:25	63305	GREE_T1	15	15	0	0.35	0.29	-0.06	-1.97	-1.9	1	1	0	900	900	0
7/22/2024 22:25	63304	GREE_T1	0	0	0	0	0	0	-1.36	-1.37	0	0	0	0	0	0
7/22/2024 22:25	63303	GREE_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/22/2024 22:25	67602	WARW_T2	0	0	0	0	0	0	0.95	0.91	2	2	0	1500	1500	0
7/22/2024 22:25	65601	QVIL_T2	42	81	39	0.19	0.18	-0.01	0.22	0.24	0	0	0	0	0	0
7/22/2024 22:25	67605	WARW_T1	1	1	0	0.3	0.5	0.2	-1.1	-1.14	0	0	0	0	0	0
7/22/2024 22:25	65602	QVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/22/2024 22:25	46102	MACI_T1	0	0	0	0	0	0	0.88	0.87	0	0	0	0	0	0
7/22/2024 22:25	65603	QVIL_T2	55	144	89	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
7/22/2024 22:25	65604	QVIL_T2	3	3	0	0.47	0.5	0.03	0	0	0	0	0	0	0	0
7/22/2024 22:25	11904	ETEX_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
7/22/2024 22:25	42503	ALTA_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
7/22/2024 22:26	55002	NEWP_T1	2	3	1	0.75	0.93	0.18	0	0	0	0	0	0	0	0
7/22/2024 22:26	55001	NEWP_T1	0	0	0	0	0	0	-0.23	-0.15	0	0	0	0	0	0
7/22/2024 22:26	67602	WARW_T2	0	0	0	0	0	0	1.89	1.81	4	4	0	3000	3000	0
7/22/2024 22:26	20403	ASHF_T2	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
7/22/2024 22:26	66505	SMAN_T2	0	0	0	0	0	0	-0.22	-0.08	3	3	0	2100	2100	0
7/22/2024 22:26	64305	LINC_T1	1	0	-1	0.4	0	-0.4	-0.27	-0.29	0	0	0	0	0	0
7/22/2024 22:26	40504	CRES_T1	0	0	0	0	0	0	-1.58	-1.61	0	0	0	0	0	0
7/22/2024 22:26	67801	WLAN_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
7/22/2024 22:26	20401	ASHF_T2	2	4	2	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
7/22/2024 22:26	48302	ORWI_T2	2	2	0	0.95	1.15	0.2	-0.51	-0.52	0	0	0	0	0	0
7/22/2024 22:26	40505	CRES_T1	3	3	0	4.93	5.2	0.27	0	0	0	0	0	0	0	0
7/22/2024 22:27	67602	WARW_T2	0	0	0	0	0	0	1.89	1.81	4	4	0	3000	3000	0
7/22/2024 22:27	61701	ELIZ_T1	1	1	0	4.2	4.7	0.5	0	0	0	0	0	0	0	0
7/22/2024 22:27	40504	CRES_T1	0	0	0	0	0	0	-1.58	-1.61	0	0	0	0	0	0
7/22/2024 22:27	64101	REFR_T1	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
7/22/2024 22:27	40505	CRES_T1	3	3	0	4.93	5.2	0.27	0	0	0	0	0	0	0	0
7/22/2024 22:27	20403	ASHF_T2	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
7/22/2024 22:27	61703	ELIZ_T1	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
7/22/2024 22:27	20401	ASHF_T2	2	4	2	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
7/22/2024 22:28	20401	ASHF_T2	2	4	2	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
7/22/2024 22:28	65603	QVIL_T2	55	144	89	0.17	0.16	-0.01	0.21	0.2	0	0	0	0	0	0
7/22/2024 22:28	63804	HEMP_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
7/22/2024 22:28	43302	WATS_T2	4	4	0	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
7/22/2024 22:28	62102	ELAN_T1	0	0	0	0	0	0	1.17	1.15	0	0	0	0	0	0
7/22/2024 22:28	16301	ALPA_T1	1	1	0	0.5	0.4	-0.1	0.05	0.04	0	0	0	0	0	0
7/22/2024 22:28	65604	QVIL_T2	3	3	0	0.47	0.5	0.03	0	0	0	0	0	0	0	0
7/22/2024 22:28	20403	ASHF_T2	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
7/22/2024 22:28	65602	QVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/22/2024 22:28	43304	WATS_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
7/22/2024 22:28	67602	WARW_T2	0	0	0	0	0	0	0.95	0.91	2	2	0	1500	1500	0
7/22/2024 22:28	65601	QVIL_T2	42	81	39	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
7/22/2024 22:28	63803	HEMP_T1	0	0	0	0	0	0	0.84	0.8	0	0	0	0	0	0
7/22/2024 22:29	65602	QVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/22/2024 22:29	65604	QVIL_T2	3	3	0	0.47	0.5	0.03	0	0	0	0	0	0	0	0
7/22/2024 22:29	63306	GREE_T1	0	0	0	0	0	0	-1.33	-1.38	1	1	0	900	900	0
7/22/2024 22:29	65603	QVIL_T2	55	144	89	0.17	0.16	-0.01	0.21	0.2	0	0	0	0	0	0
7/22/2024 22:29	63305	GREE_T1	15	15	0	0.35	0.29	-0.06	0	0	0	0	0	0	0	0
7/22/2024 22:29	65601	QVIL_T2	42	81	39	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
7/22/2024 22:29	63303	GREE_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/22/2024 22:29	67602	WARW_T2	0	0	0	0	0	0	0.95	0.91	2	2	0	1500	1500	0
7/22/2024 22:30	63305	GREE_T1	15	14	-1	0.29	0.19	-0.1	0	0	0	0	0	0	0	0
7/22/2024 22:30	63303	GREE_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/22/2024 22:30	63304	GREE_T1	0	0	0	0	0	0	-1.36	-1.37	0	0	0	0	0	0
7/22/2024 22:31	64201	KINZ_T1	1	4	3	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/22/2024 22:31	64203	KINZ_T1	0	0	0	0	0	0	0.7	0.62	0	0	0	0	0	0
7/22/2024 22:31	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/22/2024 22:31	64101	REFR_T1	0	0	0	0	0	0	0.4	0.35	0	0	0	0	0	0
7/22/2024 22:31	64204	KINZ_T1	1	1	0	0.4	1.3	0.9	0	0	0	0	0	0	0	0
7/22/2024 22:32	64101	REFR_T1	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
7/22/2024 22:33	64101	REFR_T1	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
7/22/2024 22:34	67605	WARW_T1	1	3	2	0.5	0.6	0.1	-1.1	-1.14	0	0	0	0	0	0
7/22/2024 22:59	61102	BERK_T5	0	0	0	0	0	0	0.53	0.51	1	1	0	300	300	0
7/22/2024 23:03	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/23/2024 0:42	47401	PENS_T1	0	0	0	0	0	0	1.06	1.09	0	0	0	0	0	0
7/23/2024 6:37	56501	ROCK_T2	3	3	0	0.57	0.43	-0.14	-0.45	-0.4	0	0	0	0	0	0
7/23/2024 6:52	55102	WERT_T2	0	0	0	0	0	0	-1.31	-1.24	2	2	0	1200	1200	0
7/23/2024 7:06	55102	WERT_T2	0	0	0	0	0	0	-1.31	-1.24	2	2	0	1200	1200	0
7/23/2024 7:10	67503	WEWI_T2	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
7/23/2024 7:17	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/23/2024 7:17	65603	QVIL_T2	0	0	0	0	0	0	0.64	0.79	0	0	0	0	0	0
7/23/2024 7:17	65601	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/23/2024 7:22	67801	WLAN_T1	0	0	0	0	0	0	0.4	0.46	0	0	0	0	0	0
7/23/2024 7:22	67804	WLAN_T1	0	0	0	0	0	0	-0.91	-0.86	0	0	0	0	0	0
7/23/2024 7:22	44902	SCOT_T2	0	0	0	0	0	0	-0.75	-0.65	0	0	0	0	0	0
7/23/2024 7:23	67804	WLAN_T1	0	0	0	0	0	0	-0.91	-0.86	0	0	0	0	0	0
7/23/2024 7:23	67803	WLAN_T1	0	0	0	0	0	0	-0.68	-0.64	0	0	0	0	0	0
7/23/2024 7:24	67803	WLAN_T1	0	0	0	0	0	0	-0.68	-0.64	0	0	0	0	0	0
7/23/2024 7:25	67805	WLAN_T1	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
7/23/2024 7:26	67805	WLAN_T1	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
7/23/2024 7:27	54505	ENOL_T2	28	0	-28	6.04	0	-6.04	-1.25	-1.2	1	1	0	600	600	0
7/23/2024 7:27	54502	ENOL_T2	0	0	0	0	0	0	-1.1	-1.1	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/23/2024 7:28	54505	ENOL_T2	28	0	-28	6.04	0	-6.04	-1.25	-1.2	1	1	0	600	600	0
7/23/2024 7:29	54505	ENOL_T2	28	0	-28	6.04	0	-6.04	-3.75	-3.6	3	3	0	1800	1800	0
7/23/2024 7:29	54502	ENOL_T2	0	0	0	0	0	0	-1.1	-1.1	1	1	0	600	600	0
7/23/2024 7:30	54505	ENOL_T2	0	0	0	0	0	0	-1.25	-1.2	1	1	0	600	600	0
7/23/2024 7:30	54503	ENOL_T2	0	0	0	0	0	0	-1.19	-1.16	1	1	0	600	600	0
7/23/2024 7:30	54502	ENOL_T2	0	0	0	0	0	0	-1.1	-1.1	1	1	0	600	600	0
7/23/2024 7:30	54501	ENOL_T2	0	0	0	0	0	0	-0.4	-0.42	1	1	0	600	600	0
7/23/2024 7:31	54504	ENOL_T2	0	0	0	0	0	0	-1.05	-1.03	1	1	0	600	600	0
7/23/2024 7:31	54503	ENOL_T2	0	0	0	0	0	0	-1.19	-1.16	1	1	0	600	600	0
7/23/2024 7:31	54505	ENOL_T2	0	0	0	0	0	0	-5	-4.8	4	4	0	2400	2400	0
7/23/2024 7:32	54503	ENOL_T2	0	0	0	0	0	0	-3.56	-3.48	3	3	0	1800	1800	0
7/23/2024 7:32	54502	ENOL_T2	0	0	0	0	0	0	-1.1	-1.1	1	1	0	600	600	0
7/23/2024 7:38	49804	UNIV_T1	0	0	0	0	0	0	1.1	1.12	0	0	0	0	0	0
7/23/2024 7:53	43304	WATS_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
7/23/2024 7:53	67604	WARW_T1	0	0	0	0	0	0	0.14	0.28	0	0	0	0	0	0
7/23/2024 8:01	22701	MINO_T1	0	0	0	0	0	0	-0.65	-0.7	1	1	0	600	600	0
7/23/2024 8:08	56803	BENV_T1	1	1	0	1.1	1.5	0.4	0.66	0.6	0	0	0	0	0	0
7/23/2024 8:08	56801	BENV_T1	8	6	-2	0.85	0.82	-0.03	0	0	0	0	0	0	0	0
7/23/2024 8:09	56801	BENV_T1	8	6	-2	0.85	0.82	-0.03	0	0	0	0	0	0	0	0
7/23/2024 8:09	56803	BENV_T1	1	1	0	1.1	1.5	0.4	0.66	0.6	0	0	0	0	0	0
7/23/2024 8:11	56803	BENV_T1	1	1	0	1.1	1.5	0.4	0.66	0.6	0	0	0	0	0	0
7/23/2024 8:11	56801	BENV_T1	8	6	-2	0.85	0.82	-0.03	0	0	0	0	0	0	0	0
7/23/2024 8:13	54504	ENOL_T2	0	0	0	0	0	0	-1	-0.98	1	1	0	600	600	0
7/23/2024 8:13	54505	ENOL_T2	0	1	1	0	0.5	0.5	-1.16	-1.14	1	1	0	600	600	0
7/23/2024 8:14	61702	ELIZ_T2	0	0	0	0	0	0	-0.16	-0.22	1	1	0	300	300	0
7/23/2024 8:14	61704	ELIZ_T2	4	5	1	0.18	0.66	0.48	0	0	0	0	0	0	0	0
7/23/2024 8:14	11103	EGYP_T1	0	0	0	0	0	0	-0.73	-0.79	0	0	0	0	0	0
7/23/2024 8:14	54502	ENOL_T2	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
7/23/2024 8:14	54505	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/23/2024 8:14	54504	ENOL_T2	0	0	0	0	0	0	-1	-0.98	1	1	0	600	600	0
7/23/2024 8:15	40101	HUNT_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
7/23/2024 8:15	54501	ENOL_T2	0	0	0	0	0	0	-0.37	-0.41	1	1	0	600	600	0
7/23/2024 8:15	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
7/23/2024 8:16	54504	ENOL_T2	0	0	0	0	0	0	-1	-0.98	1	1	0	600	600	0
7/23/2024 8:16	54505	ENOL_T2	1	1	0	0.5	0.5	0	-2.31	-2.29	2	2	0	1200	1200	0
7/23/2024 8:17	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
7/23/2024 8:17	54501	ENOL_T2	0	0	0	0	0	0	-0.37	-0.41	1	1	0	600	600	0
7/23/2024 8:17	54502	ENOL_T2	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
7/23/2024 8:21	14802	TREI_T2	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
7/23/2024 8:22	51303	WIND_T1	0	1	1	0	0.1	0.1	0.05	0.09	0	0	0	0	0	0
7/23/2024 8:22	51305	WIND_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/23/2024 8:22	45602	WOOL_T1	2	2	0	0.35	0.4	0.05	0.75	0.83	0	0	0	0	0	0
7/23/2024 8:23	51305	WIND_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/23/2024 8:23	51303	WIND_T1	0	1	1	0	0.1	0.1	0.05	0.09	0	0	0	0	0	0
7/23/2024 8:24	51304	WIND_T2	0	0	0	0	0	0	0.22	0.89	0	0	0	0	0	0
7/23/2024 8:24	51303	WIND_T1	0	1	1	0	0.1	0.1	0.05	0.09	0	0	0	0	0	0
7/23/2024 8:24	51305	WIND_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/23/2024 8:26	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 8:26	54505	ENOL_T2	1	1	0	0.5	0.5	0	-1.14	-1.12	1	1	0	600	600	0
7/23/2024 8:28	12006	HATF_T1	0	0	0	0	0	0	0.28	0.25	2	2	0	2400	2400	0
7/23/2024 8:29	54505	ENOL_T2	1	1	0	0.5	0.5	0	-1.14	-1.12	1	1	0	600	600	0
7/23/2024 8:48	13303	ORVI_T1	0	0	0	0	0	0	0.2	0.16	0	0	0	0	0	0
7/23/2024 8:49	13303	ORVI_T1	0	0	0	0	0	0	0.2	0.16	0	0	0	0	0	0
7/23/2024 8:56	54505	ENOL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/23/2024 8:56	54502	ENOL_T2	0	0	0	0	0	0	-1.1	-1.09	1	1	0	600	600	0
7/23/2024 8:59	22701	MINO_T1	0	0	0	0	0	0	-0.6	-0.7	1	1	0	600	600	0
7/23/2024 8:59	45602	WOOL_T1	2	2	0	0.4	0.45	0.05	0.8	0.81	0	0	0	0	0	0
7/23/2024 9:00	45802	HEGI_T2	1	44	43	0.2	0.83	0.63	0.44	0.46	2	2	0	1200	1200	0
7/23/2024 9:01	45802	HEGI_T2	1	44	43	0.2	0.83	0.63	0.44	0.46	2	2	0	1200	1200	0
7/23/2024 9:02	64201	KINZ_T1	0	0	0	0	0	0	-0.47	-0.45	4	4	0	2100	2100	0
7/23/2024 9:02	64202	KINZ_T1	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
7/23/2024 9:02	64203	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 9:02	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
7/23/2024 9:03	56501	ROCK_T2	106	34	-72	0.23	0.19	-0.04	-0.22	-0.23	0	0	0	0	0	0
7/23/2024 9:04	56501	ROCK_T2	106	34	-72	0.23	0.19	-0.04	-0.22	-0.23	0	0	0	0	0	0
7/23/2024 9:05	58702	ROSE_T2	1	1	0	5.8	4.5	-1.3	0	0	0	0	0	0	0	0
7/23/2024 9:05	58706	ROSE_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/23/2024 9:05	58701	ROSE_T2	0	0	0	0	0	0	-0.84	-0.75	1	1	0	600	600	0
7/23/2024 9:05	58705	ROSE_T2	5	5	0	1.76	1.78	0.02	0	0	0	0	0	0	0	0
7/23/2024 9:05	56501	ROCK_T2	106	34	-72	0.23	0.19	-0.04	-0.22	-0.23	0	0	0	0	0	0
7/23/2024 9:06	14601	SWHI_T1	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
7/23/2024 9:06	56501	ROCK_T2	106	34	-72	0.23	0.19	-0.04	-0.65	-0.68	0	0	0	0	0	0
7/23/2024 9:09	56802	BENV_T2	1	1	0	0.1	0.3	0.2	-0.99	-0.91	0	0	0	0	0	0
7/23/2024 9:14	52004	LING_T2	3	5	2	5.03	3.9	-1.13	0.44	0.43	0	0	0	0	0	0
7/23/2024 9:14	52006	LING_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
7/23/2024 9:14	56802	BENV_T2	1	1	0	0.1	0.3	0.2	-0.49	-0.46	0	0	0	0	0	0
7/23/2024 9:14	52002	LING_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/23/2024 9:16	23203	HIRU_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
7/23/2024 9:16	23202	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/23/2024 9:16	23201	HIRU_T2	2	5	3	0.1	0.2	0.1	0.18	0.17	0	0	0	0	0	0
7/23/2024 9:17	63602	LETO_T1	0	1	1	0	0.1	0.1	-0.52	-0.53	2	2	0	1200	1200	0
7/23/2024 9:21	59101	WALK_T2	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
7/23/2024 9:23	65802	RTWN_T2	0	0	0	0	0	0	0.16	0.21	0	0	0	0	0	0
7/23/2024 9:25	51305	WIND_T1	1	1	0	0.5	0.6	0.1	0.4	0.37	0	0	0	0	0	0
7/23/2024 9:25	51303	WIND_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/23/2024 9:25	22701	MINO_T1	0	0	0	0	0	0	-0.66	-0.65	1	1	0	600	600	0
7/23/2024 9:27	44801	EDAN_T2	19	26	7	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
7/23/2024 9:27	44802	EDAN_T2	0	0	0	0	0	0	-0.49	-0.42	0	0	0	0	0	0
7/23/2024 9:28	52404	GRPA_T2	0	0	0	0	0	0	0.85	0.73	0	0	0	0	0	0
7/23/2024 9:28	52403	GRPA_T2	1	6	5	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/23/2024 9:28	44802	EDAN_T2	0	0	0	0	0	0	-0.49	-0.42	0	0	0	0	0	0
7/23/2024 9:28	52402	GRPA_T2	2	1	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
7/23/2024 9:28	44801	EDAN_T2	19	26	7	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
7/23/2024 9:29	44801	EDAN_T2	19	26	7	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
7/23/2024 9:29	44802	EDAN_T2	0	0	0	0	0	0	-0.98	-0.84	0	0	0	0	0	0
7/23/2024 9:30	44801	EDAN_T2	24	18	-6	0.18	0.18	0	0	0	0	0	0	0	0	0
7/23/2024 9:30	44802	EDAN_T2	0	0	0	0	0	0	-0.49	-0.42	0	0	0	0	0	0
7/23/2024 9:31	52402	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/23/2024 9:31	52404	GRPA_T2	0	0	0	0	0	0	0.85	0.73	0	0	0	0	0	0
7/23/2024 9:31	52403	GRPA_T2	5	6	1	0.66	0.18	-0.48	0	0	0	0	0	0	0	0
7/23/2024 9:35	14601	SWHI_T1	0	0	0	0	0	0	-0.66	-0.61	0	0	0	0	0	0
7/23/2024 9:35	14404	SSLA_T1	1	1	0	5.3	5.5	0.2	0.08	0.1	0	0	0	0	0	0
7/23/2024 9:36	43202	MVIL_T2	22	14	-8	0.18	0.19	0.01	-0.41	-0.44	0	0	0	0	0	0
7/23/2024 9:37	14601	SWHI_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
7/23/2024 9:37	14404	SSLA_T1	1	1	0	5.3	5.5	0.2	0.1	0.11	0	0	0	0	0	0
7/23/2024 9:39	60201	ATGL_T2	0	0	0	0	0	0	1.09	1.21	0	0	0	0	0	0
7/23/2024 9:41	54501	ENOL_T2	0	0	0	0	0	0	-0.3	-0.27	1	1	0	600	600	0
7/23/2024 9:41	22002	BOHE_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
7/23/2024 9:41	22003	BOHE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/23/2024 9:44	54501	ENOL_T2	0	0	0	0	0	0	-0.3	-0.27	1	1	0	600	600	0
7/23/2024 9:48	60502	NMAN_T2	0	0	0	0	0	0	0.5	0.56	0	0	0	0	0	0
7/23/2024 9:48	64101	REFR_T1	0	0	0	0	0	0	0.62	0.78	0	0	0	0	0	0
7/23/2024 9:49	64101	REFR_T1	0	0	0	0	0	0	0.41	0.52	0	0	0	0	0	0
7/23/2024 9:50	16902	MECK_T1	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
7/23/2024 9:51	64101	REFR_T1	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
7/23/2024 9:52	13902	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 9:52	13905	SEID_T1	0	0	0	0	0	0	-0.73	0	1	1	0	1200	1200	0
7/23/2024 9:54	22003	BOHE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/23/2024 9:54	22001	BOHE_T1	0	0	0	0	0	0	-0.09	-0.13	1	1	0	600	600	0
7/23/2024 9:54	46206	DANV_T2	64	64	0	0.62	0.44	-0.18	3.24	0	1	1	0	1200	1200	0
7/23/2024 9:57	22003	BOHE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/23/2024 9:57	56802	BENV_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
7/23/2024 9:57	22002	BOHE_T1	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
7/23/2024 9:59	22904	HARW_T1	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
7/23/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.4	0.35	0	0	0	0	0	0
7/23/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	3.43	0	0	0	0	0	0	0
7/23/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
7/23/2024 10:00	40505	CRES_T1	3	3	0	3.83	3.7	-0.13	0.62	0.65	0	0	0	0	0	0
7/23/2024 10:00	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/23/2024 10:07	53102	WTWN_T1	0	0	0	0	0	0	-0.38	-0.36	0	0	0	0	0	0
7/23/2024 10:07	43304	WATS_T2	0	0	0	0	0	0	-0.16	-0.12	0	0	0	0	0	0
7/23/2024 10:10	51101	CARL_T1	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
7/23/2024 10:10	51109	CARL_T1	0	0	0	0	0	0	-1.96	-1.92	1	1	0	1200	1200	0
7/23/2024 10:10	53102	WTWN_T1	0	0	0	0	0	0	-0.38	-0.36	0	0	0	0	0	0
7/23/2024 10:13	22904	HARW_T1	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
7/23/2024 10:13	52403	GRPA_T2	6	12	6	0.73	0.39	-0.34	0	0	0	0	0	0	0	0
7/23/2024 10:13	52404	GRPA_T2	0	0	0	0	0	0	0.84	0.77	0	0	0	0	0	0
7/23/2024 10:13	52402	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/23/2024 10:15	52403	GRPA_T2	7	16	9	0.39	0.54	0.15	0.83	0.88	0	0	0	0	0	0
7/23/2024 10:15	52402	GRPA_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/23/2024 10:15	52404	GRPA_T2	0	0	0	0	0	0	0.84	0.77	0	0	0	0	0	0
7/23/2024 10:24	67804	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/23/2024 10:24	67801	WLAN_T1	0	0	0	0	0	0	0.76	0.77	0	0	0	0	0	0
7/23/2024 10:24	67803	WLAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/23/2024 10:33	56501	ROCK_T2	5	6	1	0.28	0.38	0.1	-0.09	-0.02	0	0	0	0	0	0
7/23/2024 10:36	24801	VALM_T1	0	0	0	0	0	0	-0.02	-0.14	0	0	0	0	0	0
7/23/2024 10:36	56501	ROCK_T2	5	6	1	0.28	0.38	0.1	-0.09	-0.02	0	0	0	0	0	0
7/23/2024 10:39	56802	BENV_T2	0	0	0	0	0	0	-0.37	-0.34	0	0	0	0	0	0
7/23/2024 10:39	43402	BENT_T1	0	0	0	0	0	0	-0.52	-0.51	1	1	0	900	900	0
7/23/2024 10:40	43402	BENT_T1	0	0	0	0	0	0	-0.52	-0.51	1	1	0	900	900	0
7/23/2024 10:42	58401	MORO_T1	0	0	0	0	0	0	-2.06	-1.98	2	2	0	1200	1200	0
7/23/2024 10:42	44802	EDAN_T2	0	0	0	0	0	0	-0.68	-0.62	0	0	0	0	0	0
7/23/2024 10:42	44801	EDAN_T2	26	22	-4	0.17	0.2	0.03	0	0	0	0	0	0	0	0
7/23/2024 10:43	53903	HALI_T2	2	4	2	0.85	0.58	-0.27	0.05	0.02	0	0	0	0	0	0
7/23/2024 10:43	53902	HALI_T2	1	2	1	4.6	2.3	-2.3	0	0	0	0	0	0	0	0
7/23/2024 10:43	56802	BENV_T2	0	0	0	0	0	0	-0.37	-0.34	0	0	0	0	0	0
7/23/2024 10:44	44801	EDAN_T2	26	22	-4	0.17	0.2	0.03	-1.32	-1.35	0	0	0	0	0	0
7/23/2024 10:45	64305	LINC_T1	1	0	-1	0.1	0	-0.1	0.09	0.12	0	0	0	0	0	0
7/23/2024 10:47	58401	MORO_T1	0	0	0	0	0	0	-2.06	-1.98	2	2	0	1200	1200	0
7/23/2024 10:50	58401	MORO_T1	0	0	0	0	0	0	-2.06	-1.98	2	2	0	1200	1200	0
7/23/2024 10:51	44301	BEAV_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
7/23/2024 10:52	58302	NOTT_T1	0	0	0	0	0	0	-1.08	-0.92	2	2	0	2100	2100	0
7/23/2024 10:53	54501	ENOL_T2	0	0	0	0	0	0	-0.24	-0.25	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/23/2024 10:53	55105	WERT_T1	0	0	0	0	0	0	0.15	0.22	1	1	0	900	900	0
7/23/2024 10:53	29401	BELT_T1	1	27	26	0.4	0.14	-0.26	0	0	1	1	0	900	900	0
7/23/2024 10:53	29402	BELT_T1	1	1	0	8	8.3	0.3	0	0	0	0	0	0	0	0
7/23/2024 10:53	54504	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/23/2024 10:55	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 10:55	29401	BELT_T1	1	27	26	0.4	0.14	-0.26	0	0	1	1	0	900	900	0
7/23/2024 10:55	54501	ENOL_T2	0	0	0	0	0	0	-0.24	-0.25	1	1	0	600	600	0
7/23/2024 10:55	54504	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/23/2024 10:55	11102	EGYP_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/23/2024 10:55	53902	HALI_T2	2	1	-1	2.3	5	2.7	0	0	0	0	0	0	0	0
7/23/2024 10:55	53903	HALI_T2	4	2	-2	0.58	1.2	0.62	0.02	0.06	0	0	0	0	0	0
7/23/2024 10:55	11103	EGYP_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
7/23/2024 10:55	29402	BELT_T1	1	1	0	8	8.3	0.3	0	0	0	0	0	0	0	0
7/23/2024 10:55	11104	EGYP_T1	5	5	0	0.24	0.28	0.04	0	0	0	0	0	0	0	0
7/23/2024 10:57	53902	HALI_T2	2	1	-1	2.3	5	2.7	0	0	0	0	0	0	0	0
7/23/2024 10:57	43304	WATS_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/23/2024 10:57	53903	HALI_T2	4	2	-2	0.58	1.2	0.62	0.02	0.06	0	0	0	0	0	0
7/23/2024 10:57	29402	BELT_T1	1	1	0	8	8.3	0.3	0	0	0	0	0	0	0	0
7/23/2024 10:57	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 10:57	52403	GRPA_T2	15	13	-2	0.6	0.49	-0.11	0.47	0.11	0	0	0	0	0	0
7/23/2024 10:57	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 10:57	43301	WATS_T2	0	0	0	0	0	0	-0.32	-0.32	1	1	0	900	900	0
7/23/2024 10:57	29401	BELT_T1	1	27	26	0.4	0.14	-0.26	0	0	1	1	0	900	900	0
7/23/2024 10:58	46206	DANV_T2	6	10	4	0.75	0.32	-0.43	0	0	0	0	0	0	0	0
7/23/2024 10:58	53903	HALI_T2	4	2	-2	0.58	1.2	0.62	0.02	0.06	0	0	0	0	0	0
7/23/2024 10:58	46203	DANV_T2	0	0	0	0	0	0	-0.24	-0.28	0	0	0	0	0	0
7/23/2024 10:58	53902	HALI_T2	2	1	-1	2.3	5	2.7	0	0	0	0	0	0	0	0
7/23/2024 11:00	11101	EGYP_T1	1	0	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/23/2024 11:00	11103	EGYP_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
7/23/2024 11:00	11104	EGYP_T1	5	5	0	0.78	0.28	-0.5	0	0	0	0	0	0	0	0
7/23/2024 11:00	11102	EGYP_T1	1	1	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
7/23/2024 11:02	40101	HUNT_T2	2	8	6	0.65	0.7	0.05	-0.12	-0.21	0	0	0	0	0	0
7/23/2024 11:04	56501	ROCK_T2	6	7	1	0.48	0.24	-0.24	-0.1	0.03	0	0	0	0	0	0
7/23/2024 11:05	55002	NEWP_T1	1	2	1	2.2	0.45	-1.75	-0.07	-0.05	0	0	0	0	0	0
7/23/2024 11:06	56501	ROCK_T2	6	7	1	0.48	0.24	-0.24	-0.2	0.06	0	0	0	0	0	0
7/23/2024 11:06	55002	NEWP_T1	1	2	1	2.2	0.45	-1.75	-0.07	-0.05	0	0	0	0	0	0
7/23/2024 11:07	24901	WHHA_T1	1	1	0	0	0	0	2.36	2.3	0	0	0	0	0	0
7/23/2024 11:07	56501	ROCK_T2	6	7	1	0.48	0.24	-0.24	0.03	0.1	0	0	0	0	0	0
7/23/2024 11:07	24902	WHHA_T1	1	1	0	0.3	0	-0.3	1.84	1.82	0	0	0	0	0	0
7/23/2024 11:08	58006	WCAR_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
7/23/2024 11:09	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 11:10	44301	BEAV_T2	1	1	0	1.2	1.2	0	0.17	0.25	2	2	0	1500	1500	0
7/23/2024 11:11	56802	BENV_T2	0	1	1	0	0.3	0.3	-0.94	-0.93	0	0	0	0	0	0
7/23/2024 11:18	45702	LIND_T2	1	4	3	0.5	0.68	0.18	-1.38	-1.33	0	0	0	0	0	0
7/23/2024 11:21	67503	WEWI_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
7/23/2024 11:21	67505	WEWI_T1	0	0	0	0	0	0	0.56	0.65	1	1	0	900	900	0
7/23/2024 11:21	44301	BEAV_T2	1	4	3	1.2	1.9	0.7	0.25	0.31	2	2	0	1500	1500	0
7/23/2024 11:21	67502	WEWI_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/23/2024 11:22	67801	WLAN_T1	0	0	0	0	0	0	0.9	0.54	0	0	0	0	0	0
7/23/2024 11:22	41902	REED_T1	1	0	-1	0.2	0	-0.2	0.44	0.51	1	1	0	900	900	0
7/23/2024 11:22	67804	WLAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/23/2024 11:22	67803	WLAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/23/2024 11:23	67605	WARW_T1	1	1	0	0.1	0.3	0.2	-0.99	-0.97	0	0	0	0	0	0
7/23/2024 11:23	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 11:25	53902	HALI_T2	1	3	2	5	2.17	-2.83	0	0	0	0	0	0	0	0
7/23/2024 11:25	53903	HALI_T2	2	7	5	1.2	0.77	-0.43	0	0	0	0	0	0	0	0
7/23/2024 11:25	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 11:25	44301	BEAV_T2	1	4	3	1.2	1.9	0.7	0.25	0.31	2	2	0	1500	1500	0
7/23/2024 11:25	53901	HALI_T2	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
7/23/2024 11:25	11102	EGYP_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/23/2024 11:25	11104	EGYP_T1	5	5	0	0.28	1.1	0.82	0.96	0.97	0	0	0	0	0	0
7/23/2024 11:26	56803	BENV_T1	1	2	1	4.8	9.7	4.9	0	0	0	0	0	0	0	0
7/23/2024 11:26	67505	WEWI_T1	0	0	0	0	0	0	0.56	0.65	1	1	0	900	900	0
7/23/2024 11:26	56801	BENV_T1	6	9	3	0.75	0.82	0.07	-0.7	-0.72	2	2	0	1200	1200	0
7/23/2024 11:26	44301	BEAV_T2	1	4	3	1.2	1.9	0.7	0.25	0.31	2	2	0	1500	1500	0
7/23/2024 11:26	56802	BENV_T2	0	1	1	0	0.3	0.3	-1.86	-1.78	0	0	0	0	0	0
7/23/2024 11:27	40602	PIGR_T1	1	1	0	0.7	0	-0.7	-2.58	-2.54	2	2	0	1200	1200	0
7/23/2024 11:27	63804	HEMP_T1	1	1	0	7.3	7.1	-0.2	0	0	0	0	0	0	0	0
7/23/2024 11:27	63803	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/23/2024 11:27	63801	HEMP_T1	0	1	1	0	0.1	0.1	0.16	0.12	1	1	0	900	900	0
7/23/2024 11:29	56803	BENV_T1	1	2	1	4.8	9.7	4.9	0	0	0	0	0	0	0	0
7/23/2024 11:29	56802	BENV_T2	0	1	1	0	0.3	0.3	-0.93	-0.89	0	0	0	0	0	0
7/23/2024 11:29	56801	BENV_T1	6	9	3	0.75	0.82	0.07	-0.35	-0.36	1	1	0	600	600	0
7/23/2024 11:30	11104	EGYP_T1	5	5	0	1.34	1.1	-0.24	0.96	0.97	0	0	0	0	0	0
7/23/2024 11:30	11101	EGYP_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/23/2024 11:30	11102	EGYP_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
7/23/2024 11:31	63602	LETO_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
7/23/2024 11:31	63601	LETO_T1	2	2	0	0.45	0.35	-0.1	0.98	1.07	2	2	0	2100	2100	0
7/23/2024 11:32	16402	MOPO_T1	0	0	0	0	0	0	0.33	0.4	0	0	0	0	0	0
7/23/2024 11:33	42903	MIDD_T2	0	2	2	0	0.35	0.35	0.96	0.89	1	1	0	1200	1200	0
7/23/2024 11:33	60502	NMAN_T2	0	0	0	0	0	0	0.67	0.71	0	0	0	0	0	0
7/23/2024 11:35	16402	MOPO_T1	0	0	0	0	0	0	0.33	0.4	0	0	0	0	0	0
7/23/2024 11:35	44902	SCOT_T2	24	1	-23	0.13	0.2	0.07	-0.54	-0.54	0	0	0	0	0	0
7/23/2024 11:35	44901	SCOT_T2	0	17	17	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 11:36	64802	MONE_T2	1	2	1	0.4	0.2	-0.2	0.37	0.42	0	0	0	0	0	0
7/23/2024 11:37	65601	QVIL_T2	0	1	1	0	0.2	0.2	-0.15	-0.05	1	1	0	900	900	0
7/23/2024 11:38	24902	WHHA_T1	0	2	2	0	0.3	0.3	0.9	0.93	0	0	0	0	0	0
7/23/2024 11:38	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 11:38	44902	SCOT_T2	24	1	-23	0.13	0.2	0.07	-0.54	-0.54	0	0	0	0	0	0
7/23/2024 11:38	44901	SCOT_T2	0	17	17	0	0	0	0.54	0.54	0	0	0	0	0	0
7/23/2024 11:39	43301	WATS_T2	0	0	0	0	0	0	-0.49	-0.38	2	2	0	1800	1800	0
7/23/2024 11:39	24902	WHHA_T1	0	2	2	0	0.3	0.3	0.9	0.93	0	0	0	0	0	0
7/23/2024 11:39	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 11:39	43304	WATS_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
7/23/2024 11:40	67803	WLAN_T1	1	1	0	0.1	0.3	0.2	-0.32	-0.29	0	0	0	0	0	0
7/23/2024 11:40	43304	WATS_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
7/23/2024 11:40	67804	WLAN_T1	1	3	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/23/2024 11:41	56802	BENV_T2	1	1	0	0.3	0.2	-0.1	-0.89	-0.9	0	0	0	0	0	0
7/23/2024 11:42	29402	BELT_T1	24	62	38	0.19	0.33	0.14	0	0	0	0	0	0	0	0
7/23/2024 11:42	46206	DANV_T2	20	37	17	0.34	0.43	0.09	2.35	2.15	2	2	0	2100	2100	0
7/23/2024 11:42	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 11:44	63202	MGTN_T2	0	0	0	0	0	0	-0.81	-0.76	1	1	0	900	900	0
7/23/2024 11:44	64201	KINZ_T1	0	0	0	0	0	0	0.07	0.13	4	4	0	2100	2100	0
7/23/2024 11:44	64203	KINZ_T1	2	2	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
7/23/2024 11:44	64204	KINZ_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
7/23/2024 11:45	64201	KINZ_T1	0	0	0	0	0	0	0.07	0.13	4	4	0	2100	2100	0
7/23/2024 11:45	64203	KINZ_T1	1	2	1	1.1	1	-0.1	0	0	0	0	0	0	0	0
7/23/2024 11:45	51101	CARL_T1	1	1	0	8.1	8	-0.1	0	0	0	0	0	0	0	0
7/23/2024 11:45	51109	CARL_T1	0	0	0	0	0	0	-1.8	-1.82	1	1	0	1200	1200	0
7/23/2024 11:45	63305	GREE_T1	0	0	0	0	0	0	-1.4	-1.5	1	1	0	900	900	0
7/23/2024 11:45	64204	KINZ_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
7/23/2024 11:45	63306	GREE_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/23/2024 11:47	46803	HEPB_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/23/2024 11:47	46801	HEPB_T2	0	2	2	0	0.25	0.25	1.13	1.17	0	0	0	0	0	0
7/23/2024 11:49	64902	MILL_T2	0	0	0	0	0	0	0.02	-0.03	1	1	0	900	900	0
7/23/2024 11:51	55002	NEWP_T1	4	2	-2	0.83	1.15	0.32	-0.08	0	0	0	0	0	0	0
7/23/2024 11:53	67502	WEWI_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
7/23/2024 11:53	67503	WEWI_T2	0	0	0	0	0	0	0.56	0.48	0	0	0	0	0	0
7/23/2024 11:54	67904	WNHO_T1	0	0	0	0	0	0	-1.79	-1.81	2	2	0	2100	2100	0
7/23/2024 11:55	60803	BUCK_T1	11	12	1	0.33	0.49	0.16	-0.26	-0.23	1	1	0	600	600	0
7/23/2024 11:55	60201	ATGL_T2	0	0	0	0	0	0	1.04	0.97	1	1	0	300	300	0
7/23/2024 11:55	43304	WATS_T2	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
7/23/2024 11:55	60801	BUCK_T1	0	1	1	0.6	0.6	0	0	0	0	0	0	0	0	0
7/23/2024 11:56	46206	DANV_T2	36	40	4	0.41	0.45	0.04	2.15	2.31	2	2	0	2100	2100	0
7/23/2024 11:56	56802	BENV_T2	9	0	-9	8.37	0	-8.37	-0.9	-0.83	0	0	0	0	0	0
7/23/2024 11:56	56803	BENV_T1	1	1	0	2.8	2.4	-0.4	0.39	0.37	1	1	0	600	600	0
7/23/2024 11:56	56801	BENV_T1	8	8	0	0.81	0.79	-0.02	0	0	0	0	0	0	0	0
7/23/2024 11:56	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 11:57	60803	BUCK_T1	11	12	1	0.33	0.49	0.16	-0.78	-0.69	3	3	0	1800	1800	0
7/23/2024 11:57	60801	BUCK_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
7/23/2024 11:58	56501	ROCK_T2	6	7	1	0.18	0.4	0.22	0.09	0.08	0	0	0	0	0	0
7/23/2024 11:58	46206	DANV_T2	36	40	4	0.41	0.45	0.04	2.15	2.31	2	2	0	2100	2100	0
7/23/2024 11:58	45802	HEGI_T2	2	3	1	0.35	0.4	0.05	0.74	0.69	2	2	0	1200	1200	0
7/23/2024 11:58	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 11:59	56501	ROCK_T2	6	7	1	0.18	0.4	0.22	0.09	0.08	0	0	0	0	0	0
7/23/2024 12:01	52004	LING_T2	8	5	-3	2.19	2.88	0.69	0.55	0.58	0	0	0	0	0	0
7/23/2024 12:02	56501	ROCK_T2	5	7	2	0.42	0.44	0.02	0.09	0.08	0	0	0	0	0	0
7/23/2024 12:02	52403	GRPA_T2	8	12	4	0.6	0.88	0.28	0.35	0.25	0	0	0	0	0	0
7/23/2024 12:02	63601	LETO_T1	2	3	1	0.3	0.47	0.17	0	0	0	0	0	0	0	0
7/23/2024 12:02	52404	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 12:02	63602	LETO_T1	1	2	1	0.5	0.55	0.05	-0.16	-0.36	2	2	0	1200	1200	0
7/23/2024 12:02	45802	HEGI_T2	3	5	2	0.53	0.15	-0.38	0.74	0.69	2	2	0	1200	1200	0
7/23/2024 12:02	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 12:02	52402	GRPA_T2	1	6	5	1	1	0	0	0	0	0	0	0	0	0
7/23/2024 12:03	56501	ROCK_T2	5	7	2	0.42	0.44	0.02	0.09	0.08	0	0	0	0	0	0
7/23/2024 12:03	52004	LING_T2	8	5	-3	2.19	2.88	0.69	0.55	0.58	0	0	0	0	0	0
7/23/2024 12:04	56501	ROCK_T2	5	7	2	0.42	0.44	0.02	0.09	0.08	0	0	0	0	0	0
7/23/2024 12:04	20401	ASHF_T2	4	5	1	0.8	0.8	0	0.36	0.45	0	0	0	0	0	0
7/23/2024 12:06	20401	ASHF_T2	4	5	1	0.8	0.8	0	0	0	0	0	0	0	0	0
7/23/2024 12:06	59101	WALK_T2	1	1	0	1.5	0	-1.5	0.97	0.67	0	0	0	0	0	0
7/23/2024 12:06	55002	NEWP_T1	1	2	1	1.8	1.15	-0.65	0	-0.01	0	0	0	0	0	0
7/23/2024 12:06	20403	ASHF_T2	0	0	0	0	0	0	1.31	1.56	0	0	0	0	0	0
7/23/2024 12:06	59102	WALK_T2	0	1	1	0.6	0.6	0	0	0	0	0	0	0	0	0
7/23/2024 12:07	20401	ASHF_T2	4	5	1	0.8	0.8	0	0	0	0	0	0	0	0	0
7/23/2024 12:07	20403	ASHF_T2	0	0	0	0	0	0	0.78	0.97	0	0	0	0	0	0
7/23/2024 12:07	55101	WERT_T1	0	0	0	0	0	0	-4.52	-4.91	12	12	0	9900	9900	0
7/23/2024 12:07	66505	SMAN_T2	0	1	1	0	0	0	0.49	0.67	3	3	0	2100	2100	0
7/23/2024 12:09	67502	WEWI_T2	1	0	-1	0.8	0	-0.8	-0.57	-0.55	1	1	0	900	900	0
7/23/2024 12:09	29402	BELT_T1	47	23	-24	0.33	0.21	-0.12	0	0	0	0	0	0	0	0
7/23/2024 12:09	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 12:10	59101	WALK_T2	1	1	0	1.5	0	-1.5	0.67	0.69	0	0	0	0	0	0
7/23/2024 12:10	55101	WERT_T1	0	0	0	0	0	0	-1.51	-1.64	4	4	0	3300	3300	0
7/23/2024 12:10	58003	WCAR_T1	1	2	1	0.6	0.35	-0.25	0.44	0.52	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/23/2024 12:10	59102	WALK_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
7/23/2024 12:10	67502	WEWI_T2	1	0	-1	0.8	0	-0.8	-0.57	-0.55	1	1	0	900	900	0
7/23/2024 12:11	67502	WEWI_T2	1	0	-1	0.8	0	-0.8	-0.57	-0.55	1	1	0	900	900	0
7/23/2024 12:12	40802	EXCH_T2	1	1	0	0.2	0.3	0.1	-0.4	-0.38	0	0	0	0	0	0
7/23/2024 12:12	60803	BUCK_T1	11	12	1	0.49	0.46	-0.03	0	0	0	0	0	0	0	0
7/23/2024 12:12	60801	BUCK_T1	1	1	0	0.2	0.6	0.4	0.19	0.22	0	0	0	0	0	0
7/23/2024 12:12	40801	EXCH_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
7/23/2024 12:12	55101	WERT_T1	0	0	0	0	0	0	-1.51	-1.64	4	4	0	3300	3300	0
7/23/2024 12:13	46801	HEPB_T2	0	2	2	0	1.6	1.6	1.16	0.32	0	0	0	0	0	0
7/23/2024 12:13	60801	BUCK_T1	1	1	0	0.2	0.6	0.4	0.19	0.22	0	0	0	0	0	0
7/23/2024 12:13	60803	BUCK_T1	11	12	1	0.49	0.46	-0.03	0	0	0	0	0	0	0	0
7/23/2024 12:13	46803	HEPB_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/23/2024 12:14	40802	EXCH_T2	1	1	0	0.2	0.3	0.1	-0.4	-0.38	0	0	0	0	0	0
7/23/2024 12:14	40801	EXCH_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
7/23/2024 12:16	46801	HEPB_T2	2	2	0	0.25	1.6	1.35	0	0	0	0	0	0	0	0
7/23/2024 12:16	46803	HEPB_T2	1	1	0	0.3	0.8	0.5	0.71	0.74	0	0	0	0	0	0
7/23/2024 12:17	44801	EDAN_T2	2	8	6	0.2	0.3	0.1	-1.24	-1.27	0	0	0	0	0	0
7/23/2024 12:18	43202	MVIL_T2	5	4	-1	0.28	0.33	0.05	-0.4	-0.42	0	0	0	0	0	0
7/23/2024 12:18	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 12:18	20401	ASHF_T2	5	4	-1	1.34	0.9	-0.44	0	0	0	0	0	0	0	0
7/23/2024 12:18	20403	ASHF_T2	0	0	0	0	0	0	0.78	0.97	0	0	0	0	0	0
7/23/2024 12:20	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 12:20	20401	ASHF_T2	5	4	-1	1.34	0.9	-0.44	0	0	0	0	0	0	0	0
7/23/2024 12:20	20403	ASHF_T2	0	0	0	0	0	0	0.78	0.97	0	0	0	0	0	0
7/23/2024 12:21	13905	SEID_T1	0	0	0	0	0	0	-0.55	-0.53	1	1	0	1200	1200	0
7/23/2024 12:21	43202	MVIL_T2	5	4	-1	0.28	0.33	0.05	-0.42	-0.36	0	0	0	0	0	0
7/23/2024 12:22	67904	WNHO_T1	0	0	0	0	0	0	-1.8	-1.76	2	2	0	2100	2100	0
7/23/2024 12:26	59101	WALK_T2	1	1	0	0.1	0	-0.1	0.69	0.63	0	0	0	0	0	0
7/23/2024 12:26	59102	WALK_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/23/2024 12:27	43304	WATS_T2	0	1	1	0	0	0	-0.04	0.01	0	0	0	0	0	0
7/23/2024 12:30	52002	LING_T2	0	0	0	0	0	0	1.6	1.47	0	0	0	0	0	0
7/23/2024 12:30	52004	LING_T2	4	5	1	3.45	2.74	-0.71	0	0	0	0	0	0	0	0
7/23/2024 12:31	64203	KINZ_T1	2	2	0	1.45	1.35	-0.1	0	0	0	0	0	0	0	0
7/23/2024 12:31	64204	KINZ_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
7/23/2024 12:31	24101	EHAZ_T1	17	23	6	0.41	1.27	0.86	0	0	0	0	0	0	0	0
7/23/2024 12:31	24102	EHAZ_T1	4	8	4	1.13	1.06	-0.07	1.6	1.63	0	0	0	0	0	0
7/23/2024 12:31	24105	EHAZ_T1	4	4	0	6.83	6.93	0.1	0	0	0	0	0	0	0	0
7/23/2024 12:31	64902	MILL_T2	0	0	0	0	0	0	0.03	0.07	1	1	0	900	900	0
7/23/2024 12:31	64201	KINZ_T1	0	12	12	0	0.7	0.7	0.08	0.08	4	4	0	2100	2100	0
7/23/2024 12:33	52002	LING_T2	0	0	0	0	0	0	1.6	1.47	0	0	0	0	0	0
7/23/2024 12:33	52004	LING_T2	4	5	1	3.45	2.74	-0.71	0	0	0	0	0	0	0	0
7/23/2024 12:33	45802	HEGI_T2	4	27	23	0.33	0.21	-0.12	0.65	0.59	2	2	0	1200	1200	0
7/23/2024 12:34	13302	ORVI_T2	2	1	-1	0.6	0.5	-0.1	0.92	0.95	0	0	0	0	0	0
7/23/2024 12:34	52004	LING_T2	4	5	1	3.45	2.74	-0.71	0	0	0	0	0	0	0	0
7/23/2024 12:34	52002	LING_T2	0	0	0	0	0	0	0.8	0.74	0	0	0	0	0	0
7/23/2024 12:35	64101	REFR_T1	3	7	4	0.43	0	-0.43	0.43	0.44	0	0	0	0	0	0
7/23/2024 12:36	60502	NMAN_T2	0	0	0	0	0	0	0.69	0.72	0	0	0	0	0	0
7/23/2024 12:37	67402	WAKE_T2	0	0	0	0	0	0	1.03	0.76	1	1	0	600	600	0
7/23/2024 12:37	64101	REFR_T1	3	7	4	0.43	0	-0.43	0.44	0.44	0	0	0	0	0	0
7/23/2024 12:37	67804	WLAN_T1	1	1	0	0.1	0.1	0	-0.36	-0.35	0	0	0	0	0	0
7/23/2024 12:37	67801	WLAN_T1	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/23/2024 12:38	64101	REFR_T1	3	7	4	0.43	0	-0.43	1.33	1.31	0	0	0	0	0	0
7/23/2024 12:39	64802	MONE_T2	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
7/23/2024 12:39	64101	REFR_T1	3	7	4	0.43	0	-0.43	1.33	1.31	0	0	0	0	0	0
7/23/2024 12:43	45801	HEGI_T1	0	0	0	0	0	0	-0.15	-0.23	1	1	0	900	900	0
7/23/2024 12:44	40602	PIGR_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
7/23/2024 12:44	40603	PIGR_T1	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
7/23/2024 12:47	63801	HEMP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/23/2024 12:47	63804	HEMP_T1	1	1	0	7.4	7.5	0.1	0.19	0.2	0	0	0	0	0	0
7/23/2024 12:48	12801	MICK_T1	0	0	0	0	0	0	-0.31	-0.33	1	1	0	600	600	0
7/23/2024 12:50	64101	REFR_T1	1	6	5	0.3	0.13	-0.17	0.44	0.44	0	0	0	0	0	0
7/23/2024 12:52	59202	THOM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/23/2024 12:54	64101	REFR_T1	1	6	5	0.3	0.13	-0.17	0.44	-0.12	0	0	0	0	0	0
7/23/2024 12:54	59202	THOM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/23/2024 12:55	64101	REFR_T1	1	6	5	0.3	0.13	-0.17	0.44	-0.12	0	0	0	0	0	0
7/23/2024 12:56	61302	EARL_T1	0	0	0	0	0	0	0.88	0.81	3	3	0	2700	2700	0
7/23/2024 12:57	61301	EARL_T1	0	0	0	0	0	0	-1.19	-1.17	2	2	0	1800	1800	0
7/23/2024 12:58	43304	WATS_T2	1	0	-1	0.1	0	-0.1	-0.57	-0.56	1	1	0	600	600	0
7/23/2024 12:58	40902	JESH_T1	0	0	0	0	0	0	-0.25	-0.4	2	2	0	1200	1200	0
7/23/2024 12:58	40901	JESH_T1	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
7/23/2024 12:59	23202	HIRU_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
7/23/2024 12:59	44801	EDAN_T2	6	4	-2	0.68	1.55	0.87	-1.25	-1.24	0	0	0	0	0	0
7/23/2024 12:59	61303	EARL_T1	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
7/23/2024 12:59	23201	HIRU_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/23/2024 13:00	64203	KINZ_T1	2	2	0	1.45	1.6	0.15	0	0	0	0	0	0	0	0
7/23/2024 13:00	64204	KINZ_T1	2	2	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
7/23/2024 13:00	64201	KINZ_T1	12	1	-11	0.58	0	-0.58	0.24	-0.91	4	5	1	2100	3300	1200
7/23/2024 13:00	22903	HARW_T1	0	14	14	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 13:00	22905	HARW_T1	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
7/23/2024 13:01	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/23/2024 13:03	64203	KINZ_T1	2	2	0	1.45	1.6	0.15	0.68	0.85	3	3	0	2100	2100	0
7/23/2024 13:03	40602	PIGR_T1	1	1	0	0.9	0.8	-0.1	-1.23	-1.21	1	1	0	600	600	0
7/23/2024 13:03	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 13:03	64201	KINZ_T1	12	1	-11	0.58	0	-0.58	0	0	0	0	0	0	0	0
7/23/2024 13:03	64204	KINZ_T1	2	2	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
7/23/2024 13:04	65901	SAKR_T2	1	1	0	7	6.6	-0.4	-0.49	-0.48	2	2	0	1500	1500	0
7/23/2024 13:06	64101	REFR_T1	6	3	-3	0.78	0.1	-0.68	-0.12	-0.12	0	0	0	0	0	0
7/23/2024 13:07	67804	WLAN_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/23/2024 13:07	66505	SMAN_T2	1	8	7	1.3	0.73	-0.57	0.86	0.84	8	8	0	4600	4600	0
7/23/2024 13:07	67801	WLAN_T1	0	18	18	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 13:07	66504	SMAN_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/23/2024 13:07	67805	WLAN_T1	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
7/23/2024 13:09	64101	REFR_T1	6	3	-3	0.78	0.1	-0.68	-0.12	-0.12	0	0	0	0	0	0
7/23/2024 13:11	64101	REFR_T1	6	3	-3	0.78	0.1	-0.68	-0.12	-0.12	0	0	0	0	0	0
7/23/2024 13:12	67605	WARW_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
7/23/2024 13:12	67603	WARW_T1	0	0	0	0	0	0	1.23	1.2	0	0	0	0	0	0
7/23/2024 13:12	66901	SHIL_T2	0	0	0	0	0	0	-1.58	-1.52	1	1	0	1200	1200	0
7/23/2024 13:14	64204	KINZ_T1	2	2	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
7/23/2024 13:14	64203	KINZ_T1	2	2	0	1.45	1.6	0.15	0.85	0.76	3	3	0	2100	2100	0
7/23/2024 13:14	64201	KINZ_T1	12	1	-11	0.58	0	-0.58	0	0	0	0	0	0	0	0
7/23/2024 13:16	64305	LINC_T1	1	1	0	1.1	1	-0.1	0.26	0.29	0	0	0	0	0	0
7/23/2024 13:20	64101	REFR_T1	3	1	-2	0.13	0	-0.13	-0.12	-0.12	0	0	0	0	0	0
7/23/2024 13:21	41902	REED_T1	1	31	30	0.3	0.33	0.03	0.51	0.52	1	1	0	900	900	0
7/23/2024 13:22	64101	REFR_T1	3	1	-2	0.13	0	-0.13	-0.24	-0.21	0	0	0	0	0	0
7/23/2024 13:22	42902	MIDD_T2	1	1	0	1	2	1	0.09	0.01	1	1	0	600	600	0
7/23/2024 13:22	42901	MIDD_T2	2	1	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/23/2024 13:22	23001	SAJO_T1	0	0	0	0	0	0	0.35	0.47	0	0	0	0	0	0
7/23/2024 13:22	23003	SAJO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 13:22	23002	SAJO_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
7/23/2024 13:24	66703	STRA_T1	0	0	0	0	0	0	0.79	0.83	0	0	0	0	0	0
7/23/2024 13:24	61102	BERK_T5	0	0	0	0	0	0	0.9	0.93	1	1	0	300	300	0
7/23/2024 13:24	61103	BERK_T5	0	0	0	0	0	0	0.55	0.59	0	0	0	0	0	0
7/23/2024 13:25	43108	SMIL_T2	1	0	-1	0.7	0.7	-0.3	-0.13	-0.12	1	1	0	1200	1200	0
7/23/2024 13:25	61102	BERK_T5	0	0	0	0	0	0	0.9	0.93	1	1	0	300	300	0
7/23/2024 13:26	61102	BERK_T5	0	0	0	0	0	0	0.9	0.93	1	1	0	300	300	0
7/23/2024 13:27	61102	BERK_T5	0	0	0	0	0	0	0.9	0.93	1	1	0	300	300	0
7/23/2024 13:28	63501	HEID_TBK1-2	0	0	0	0	0	0	0.92	0.82	1	1	0	900	900	0
7/23/2024 13:31	56803	BENV_T1	2	4	2	2.2	2.8	0.6	0.53	0.52	1	1	0	600	600	0
7/23/2024 13:31	64101	REFR_T1	1	3	2	0.1	0	-0.1	-0.12	-0.11	0	0	0	0	0	0
7/23/2024 13:31	56801	BENV_T1	3	4	1	0.53	0.8	0.27	0	0	0	0	0	0	0	0
7/23/2024 13:31	12701	MACU_T1	0	0	0	0	0	0	-0.74	-0.72	1	1	0	1200	1200	0
7/23/2024 13:33	12701	MACU_T1	0	0	0	0	0	0	-0.74	-0.72	1	1	0	1200	1200	0
7/23/2024 13:33	52004	LING_T2	2	3	1	5.75	4.13	-1.62	0.62	0.62	0	0	0	0	0	0
7/23/2024 13:39	41602	CLEV_T1	1	3	2	1.1	0	-1.1	0	0	1	1	0	600	600	0
7/23/2024 13:41	61102	BERK_T5	0	0	0	0	0	0	0.93	0.99	1	1	0	300	300	0
7/23/2024 13:43	57401	SPAN_T1	1	0	-1	5.8	0	-5.8	-0.68	-0.65	1	1	0	600	600	0
7/23/2024 13:45	44801	EDAN_T2	3	2	-1	1.27	1.05	-0.22	-1.16	-1.24	0	0	0	0	0	0
7/23/2024 13:45	15203	SFAR_T2	1	2	1	0.9	1	0.1	0	0	0	0	0	0	0	0
7/23/2024 13:45	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 13:46	44801	EDAN_T2	3	2	-1	1.27	1.05	-0.22	-1.16	-1.24	0	0	0	0	0	0
7/23/2024 13:46	65004	NEFF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/23/2024 13:46	65001	NEFF_T2	0	0	0	0	0	0	0.52	0.33	1	1	0	1200	1200	0
7/23/2024 13:46	11102	EGYP_T1	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
7/23/2024 13:46	11104	EGYP_T1	5	5	0	1.88	1.76	-0.12	1.13	1.17	0	0	0	0	0	0
7/23/2024 13:47	13503	MCMI_T2	26	137	111	0.19	0.29	0.1	-1.39	-1.32	0	0	0	0	0	0
7/23/2024 13:47	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 13:47	47802	MOCA_T2	0	0	0	0	0	0	-1.08	-1.04	0	0	0	0	0	0
7/23/2024 13:48	64902	MILL_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
7/23/2024 13:49	16402	MOPO_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
7/23/2024 13:49	17401	FOHI_T1	0	0	0	0	0	0	-1.53	-1.52	0	0	0	0	0	0
7/23/2024 13:50	67201	TEHI_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/23/2024 13:50	67203	TEHI_T1	19	6	-13	0.66	0.5	-0.16	3.02	3.04	3	3	0	2100	2100	0
7/23/2024 13:51	15702	TANN_T2	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0
7/23/2024 13:51	15703	TANN_T2	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
7/23/2024 13:52	15703	TANN_T2	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
7/23/2024 13:52	15702	TANN_T2	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
7/23/2024 13:55	15702	TANN_T2	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
7/23/2024 13:55	15703	TANN_T2	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
7/23/2024 13:57	56801	BENV_T1	3	4	1	1.03	0.78	-0.25	0	0	0	0	0	0	0	0
7/23/2024 13:57	56803	BENV_T1	2	4	2	1.5	0.5	-1	0.55	0.62	1	1	0	600	600	0
7/23/2024 14:03	47402	PENS_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/23/2024 14:03	47403	PENS_T1	4	2	-2	1	1.25	0.25	0	0	0	0	0	0	0	0
7/23/2024 14:03	47401	PENS_T1	4	0	-4	0.93	0	-0.93	0.58	0.5	0	0	0	0	0	0
7/23/2024 14:04	40101	HUNT_T2	82	142	60	0.51	0.46	-0.05	0.01	0.02	0	0	0	0	0	0
7/23/2024 14:06	47402	PENS_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/23/2024 14:06	47403	PENS_T1	4	2	-2	1	1.25	0.25	0	0	0	0	0	0	0	0
7/23/2024 14:06	47401	PENS_T1	4	0	-4	0.93	0	-0.93	0.5	0.48	0	0	0	0	0	0
7/23/2024 14:06	66703	STRA_T1	0	1	1	0	0	0	0.86	-0.19	0	0	0	0	0	0
7/23/2024 14:08	23003	SAJO_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/23/2024 14:08	23002	SAJO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/23/2024 14:08	55101	WERT_T1	2	10	8	0.15	0.25	0.1	-1.74	-1.66	4	4	0	3300	3300	0
7/23/2024 14:08	23001	SAJO_T1	0	0	0	0	0	0	0.46	0.54	0	0	0	0	0	0
7/23/2024 14:08	55102	WERT_T2	0	0	0	0	0	0	-0.48	-0.5	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/23/2024 14:08	55103	WERT_T1	1	1	0	7.4	8.4	1	0	0	0	0	0	0	0	0
7/23/2024 14:11	67801	WLAN_T1	3	7	4	0.4	0.5	0.1	0.68	0.78	0	0	0	0	0	0
7/23/2024 14:11	67602	WARW_T2	2	4	2	0.4	0.17	-0.23	1.23	1.18	2	2	0	1500	1500	0
7/23/2024 14:11	67804	WLAN_T1	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/23/2024 14:11	54504	ENOL_T2	0	0	0	0	0	0	-1.26	-1.13	1	1	0	600	600	0
7/23/2024 14:11	55101	WERT_T1	2	10	8	0.15	0.25	0.1	-1.74	-1.66	4	4	0	3300	3300	0
7/23/2024 14:11	55103	WERT_T1	1	1	0	7.4	8.4	1	0	0	0	0	0	0	0	0
7/23/2024 14:12	51002	NHAR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/23/2024 14:12	51004	NHAR_T1	1	1	0	6.6	6.5	-0.1	-1.25	-1.23	0	0	0	0	0	0
7/23/2024 14:14	61102	BERK_T5	0	0	0	0	0	0	0.95	0.95	1	1	0	300	300	0
7/23/2024 14:17	64202	KINZ_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/23/2024 14:17	44801	EDAN_T2	2	3	1	1.05	0.75	-0.3	-1.19	-1.22	0	0	0	0	0	0
7/23/2024 14:17	64201	KINZ_T1	2	1	-1	0.85	3.3	2.45	0	0	0	0	0	0	0	0
7/23/2024 14:17	64203	KINZ_T1	2	2	0	1.75	1.45	-0.3	0.82	0.83	3	3	0	2100	2100	0
7/23/2024 14:17	64204	KINZ_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/23/2024 14:18	48301	ORWI_T1	4	3	-1	0.43	0.65	0.22	2.31	2.22	0	0	0	0	0	0
7/23/2024 14:19	12701	MACU_T1	0	0	0	0	0	0	-1.44	-1.46	2	2	0	2400	2400	0
7/23/2024 14:19	48301	ORWI_T1	4	3	-1	0.43	0.65	0.22	1.16	1.11	0	0	0	0	0	0
7/23/2024 14:20	48301	ORWI_T1	4	3	-1	0.43	0.65	0.22	1.16	1.11	0	0	0	0	0	0
7/23/2024 14:21	48301	ORWI_T1	4	3	-1	0.43	0.65	0.22	1.16	1.11	0	0	0	0	0	0
7/23/2024 14:23	52503	PROG_T2	0	0	0	0	0	0	0.16	0.09	1	1	0	900	900	0
7/23/2024 14:24	52202	DEVO_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
7/23/2024 14:24	52204	DEVO_T2	3	3	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/23/2024 14:27	63304	GREE_T1	0	0	0	0	0	0	-1.98	-1.92	0	0	0	0	0	0
7/23/2024 14:27	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 14:27	15203	SFAR_T2	2	3	1	0.65	1.2	0.55	0	0	0	0	0	0	0	0
7/23/2024 14:28	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 14:28	63304	GREE_T1	0	0	0	0	0	0	-1.98	-1.92	0	0	0	0	0	0
7/23/2024 14:28	15203	SFAR_T2	2	3	1	0.65	1.2	0.55	0	0	0	0	0	0	0	0
7/23/2024 14:30	46101	MACI_T2	28	23	-5	0.15	0.11	-0.04	-1.01	-1.09	2	2	0	2400	2400	0
7/23/2024 14:31	28704	HAML_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
7/23/2024 14:31	28701	HAML_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/23/2024 14:32	52402	GRPA_T2	7	39	32	0.54	0.46	-0.08	-0.45	-0.38	0	0	0	0	0	0
7/23/2024 14:32	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 14:32	52401	GRPA_T2	3	27	24	0.7	0.39	-0.31	0	0	0	0	0	0	0	0
7/23/2024 14:32	52403	GRPA_T2	27	66	39	0.59	0.78	0.19	0	0	0	0	0	0	0	0
7/23/2024 14:32	47101	MARL_T1	41	49	8	1.04	1.06	0.02	-0.19	-0.04	0	0	0	0	0	0
7/23/2024 14:32	47104	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 14:33	47104	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 14:33	47101	MARL_T1	41	49	8	1.04	1.06	0.02	-0.09	-0.02	0	0	0	0	0	0
7/23/2024 14:34	47104	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 14:34	47101	MARL_T1	41	49	8	1.04	1.06	0.02	-0.09	-0.02	0	0	0	0	0	0
7/23/2024 14:35	52501	PROG_T1	0	1	1	0	0.2	0.2	-0.52	-0.46	1	1	0	300	300	0
7/23/2024 14:39	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 14:39	24902	WHHA_T1	2	17	15	0.55	0.7	0.15	1.01	0.98	0	0	0	0	0	0
7/23/2024 14:41	25602	ARRO_T1	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
7/23/2024 14:44	56803	BENV_T1	4	3	-1	0.4	1.43	1.03	0	0	0	0	0	0	0	0
7/23/2024 14:44	47001	HUGH_T2	3	3	0	7.87	7.93	0.06	-0.17	-0.02	0	0	0	0	0	0
7/23/2024 14:44	22901	HARW_T1	0	0	0	0	0	0	1.36	-0.02	0	1	1	0	1200	1200
7/23/2024 14:44	22903	HARW_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 14:44	22905	HARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/23/2024 14:44	56801	BENV_T1	2	2	0	0.2	0.3	0.1	-0.15	-0.1	1	1	0	600	600	0
7/23/2024 14:45	12701	MACU_T1	0	1	1	0	0	0	-1.34	-1.28	2	2	0	2400	2400	0
7/23/2024 14:45	56803	BENV_T1	3	4	1	1.5	1.65	0.15	0	0	0	0	0	0	0	0
7/23/2024 14:45	56801	BENV_T1	0	4	4	0	0.43	0.43	-0.15	-0.1	1	1	0	600	600	0
7/23/2024 14:46	47001	HUGH_T2	3	3	0	7.6	7.97	0.37	-0.08	-0.01	0	0	0	0	0	0
7/23/2024 14:46	22901	HARW_T1	0	0	0	0	0	0	1.36	-0.02	0	1	1	0	1200	1200
7/23/2024 14:46	22903	HARW_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 14:46	22905	HARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/23/2024 14:47	40101	HUNT_T2	5	19	14	0.26	0.53	0.27	-0.45	-0.43	0	0	0	0	0	0
7/23/2024 14:48	64201	KINZ_T1	1	1	0	3.3	0	-3.3	0	0	0	0	0	0	0	0
7/23/2024 14:48	64204	KINZ_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
7/23/2024 14:48	64203	KINZ_T1	2	2	0	1.45	0.85	-0.6	0.73	0.72	3	3	0	2100	2100	0
7/23/2024 14:49	64704	LITI_T1	0	0	0	0	0	0	0.23	0.24	1	1	0	600	600	0
7/23/2024 14:49	64701	LITI_T1	3	8	5	0.9	0.46	-0.44	0	0	0	0	0	0	0	0
7/23/2024 14:49	64902	MILL_T2	0	0	0	0	0	0	-0.45	-0.41	1	1	0	900	900	0
7/23/2024 14:54	24204	PROV_T3	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
7/23/2024 14:54	24201	PROV_T3	3	2	-1	3.3	4.8	1.5	-0.76	-0.7	1	1	0	1200	1200	0
7/23/2024 14:57	25603	ARRO_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
7/23/2024 14:59	64203	KINZ_T1	2	2	0	1.45	0.85	-0.6	0.72	0.64	3	3	0	2100	2100	0
7/23/2024 14:59	64204	KINZ_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
7/23/2024 14:59	64201	KINZ_T1	1	1	0	3.3	0	-3.3	0	0	0	0	0	0	0	0
7/23/2024 15:05	55001	NEWP_T1	6	15	9	0.32	0.23	-0.09	0.37	0.39	0	0	0	0	0	0
7/23/2024 15:07	67901	WHHO_T2	0	0	0	0	0	0	0.49	0.35	1	1	0	900	900	0
7/23/2024 15:08	64302	LINC_T2	10	18	8	0.56	0.51	-0.05	1.98	1.95	0	0	0	0	0	0
7/23/2024 15:12	64802	MONE_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
7/23/2024 15:12	54504	ENOL_T2	0	0	0	0	0	0	-1.16	-1.17	1	1	0	600	600	0
7/23/2024 15:12	57401	SPAN_T1	5	8	3	0.28	0.1	-0.18	-0.35	-0.21	1	1	0	600	600	0
7/23/2024 15:12	57403	SPAN_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/23/2024 15:13	57404	SPAN_T2	0	0	0	0	0	0	-1.09	-1.19	1	1	0	1200	1200	0
7/23/2024 15:13	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.54	-0.67	0	0	0	0	0	0
7/23/2024 15:16	46204	DANV_T2	25	14	-11	0.32	0.36	0.04	0	0	0	0	0	0	0	0
7/23/2024 15:16	46206	DANV_T2	74	74	0	1.02	0.84	-0.18	0	0	0	0	0	0	0	0
7/23/2024 15:16	46203	DANV_T2	1	3	2	0.1	0.2	0.1	-0.04	0.01	0	0	0	0	0	0
7/23/2024 15:19	64701	LITI_T1	7	5	-2	0.56	0	-0.56	0.25	0.32	1	1	0	900	900	0
7/23/2024 15:29	56803	BENV_T1	3	6	3	1.27	0.35	-0.92	0	0	0	0	0	0	0	0
7/23/2024 15:29	56801	BENV_T1	2	2	0	0.55	0.45	-0.1	-0.09	-0.08	1	1	0	600	600	0
7/23/2024 15:31	45801	HEGI_T1	0	0	0	0	0	0	-0.15	-0.18	1	1	0	900	900	0
7/23/2024 15:32	56801	BENV_T1	1	2	1	0.5	0.45	-0.05	-0.27	-0.24	3	3	0	1800	1800	0
7/23/2024 15:32	56803	BENV_T1	6	4	-2	1.08	0.35	-0.73	0	0	0	0	0	0	0	0
7/23/2024 15:33	56803	BENV_T1	6	4	-2	1.08	0.35	-0.73	0	0	0	0	0	0	0	0
7/23/2024 15:33	56801	BENV_T1	1	2	1	0.5	0.45	-0.05	-0.09	-0.08	1	1	0	600	600	0
7/23/2024 15:35	67203	TEHI_T1	1	1	0	1	0.9	-0.1	2.51	2.41	3	3	0	2100	2100	0
7/23/2024 15:35	67201	TEHI_T1	4	3	-1	0.33	0.17	-0.16	0	0	0	0	0	0	0	0
7/23/2024 15:37	55001	NEWP_T1	9	6	-3	0.43	0.15	-0.28	0.33	0.37	0	0	0	0	0	0
7/23/2024 15:37	64101	REFR_T1	3	9	6	0.53	0.53	0	0	0.02	0	0	0	0	0	0
7/23/2024 15:39	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 15:39	24902	WHHA_T1	51	54	3	0.52	0.47	-0.05	0.97	1	0	0	0	0	0	0
7/23/2024 15:43	64203	KINZ_T1	2	2	0	1.7	1.05	-0.65	0	0	0	0	0	0	0	0
7/23/2024 15:43	64201	KINZ_T1	0	1	1	0	0	0	-0.99	-0.93	5	5	0	3300	3300	0
7/23/2024 15:43	64204	KINZ_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
7/23/2024 15:43	64202	KINZ_T1	2	1	-1	0.85	0	-0.85	0	0	0	0	0	0	0	0
7/23/2024 15:49	42201	SHEN_T2	0	0	0	0	0	0	0.54	0.52	1	1	0	600	600	0
7/23/2024 15:58	24702	FLND_T2	0	0	0	0	0	0	-0.04	0.3	1	1	0	1200	1200	0
7/23/2024 16:03	25402	LAHA_T2	0	0	0	0	0	0	-0.34	-0.46	0	0	0	0	0	0
7/23/2024 16:16	21206	ECAR_T2	1	1	0	7.8	7.8	0	0.15	0.22	0	0	0	0	0	0
7/23/2024 16:16	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 16:19	46206	DANV_T2	68	66	-2	0.96	0.9	-0.06	0	0	0	0	0	0	0	0
7/23/2024 16:19	46204	DANV_T2	16	3	-13	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
7/23/2024 16:19	46203	DANV_T2	0	6	6	0	0.17	0.17	-0.86	-0.93	0	0	0	0	0	0
7/23/2024 16:24	63402	HONY_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/23/2024 16:24	63403	HONY_T2	3	1	-2	1	0	-1	-1.69	-1.65	1	1	0	600	600	0
7/23/2024 16:28	51004	NHAR_T1	1	1	0	7	7.1	0.1	-1.22	-1.19	0	0	0	0	0	0
7/23/2024 16:29	56803	BENV_T1	4	13	9	1.33	1.18	-0.15	0	0	0	0	0	0	0	0
7/23/2024 16:29	56801	BENV_T1	0	1	1	0	0	0	-0.04	-0.05	1	1	0	600	600	0
7/23/2024 16:30	46206	DANV_T2	61	73	12	1.01	0.88	-0.13	0	0	0	0	0	0	0	0
7/23/2024 16:30	56803	BENV_T1	12	7	-5	0.92	1.02	0.1	0	0	0	0	0	0	0	0
7/23/2024 16:30	56801	BENV_T1	0	1	1	0	0.5	0.5	-0.04	-0.05	1	1	0	600	600	0
7/23/2024 16:30	46204	DANV_T2	2	4	2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/23/2024 16:30	46203	DANV_T2	2	6	4	0.2	0.27	0.07	-0.93	-0.97	0	0	0	0	0	0
7/23/2024 16:30	51004	NHAR_T1	1	1	0	7.1	7.2	0.1	-1.22	-1.19	0	0	0	0	0	0
7/23/2024 16:30	11804	FRAN_T1	171	182	11	0.74	0.79	0.05	-0.02	-0.03	1	1	0	1200	1200	0
7/23/2024 16:36	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 16:38	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 16:41	58003	WCAR_T1	1	1	0	0.5	1.3	0.8	0.63	0.63	1	1	0	600	600	0
7/23/2024 16:41	58001	WCAR_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
7/23/2024 16:43	61301	EARL_T1	0	0	0	0	0	0	-1.17	-1.18	2	2	0	1800	1800	0
7/23/2024 16:43	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/23/2024 16:46	44301	BEAV_T2	1	1	0	0.5	0	-0.5	-0.03	-0.13	1	1	0	600	600	0
7/23/2024 16:48	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 16:51	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 16:54	55103	WERT_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
7/23/2024 16:54	55101	WERT_T1	0	2	2	0	0	0	-1.9	-2.02	4	4	0	3300	3300	0
7/23/2024 17:00	62102	ELAN_T1	0	0	0	0	0	0	1.24	1.05	0	0	0	0	0	0
7/23/2024 17:19	14404	SSLA_T1	1	1	0	2.8	2.8	0	0	0	0	0	0	0	0	0
7/23/2024 17:19	14403	SSLA_T1	3	5	2	0.57	0.73	0.16	0.99	0.98	1	1	0	600	600	0
7/23/2024 17:24	14403	SSLA_T1	3	5	2	0.57	0.73	0.16	0.98	0.98	1	1	0	600	600	0
7/23/2024 17:24	14404	SSLA_T1	1	1	0	2.8	2.8	0	0	0	0	0	0	0	0	0
7/23/2024 17:25	14404	SSLA_T1	1	1	0	2.8	2.8	0	0	0	0	0	0	0	0	0
7/23/2024 17:25	14403	SSLA_T1	3	5	2	0.57	0.73	0.16	0.98	0.98	1	1	0	600	600	0
7/23/2024 17:26	51603	DUKE_T1	0	0	0	0	0	0	-0.77	-0.16	1	0	-1	900	0	-900
7/23/2024 17:30	57104	SPHI_T2	0	0	0	0	0	0	-0.97	-1.02	0	0	0	0	0	0
7/23/2024 17:30	57106	SPHI_T2	3	3	0	0.2	0.37	0.17	0	0	0	0	0	0	0	0
7/23/2024 17:30	57101	SPHI_T2	4	6	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/23/2024 17:30	64302	LINC_T2	30	24	-6	0.71	0.56	-0.15	1.93	1.86	0	0	0	0	0	0
7/23/2024 17:33	50501	MECH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/23/2024 17:33	50502	MECH_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
7/23/2024 17:33	50506	MECH_T1	0	0	0	0	0	0	0.15	0.16	1	1	0	900	900	0
7/23/2024 17:34	50501	MECH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/23/2024 17:34	50506	MECH_T1	0	0	0	0	0	0	0.31	0.33	2	2	0	1800	1800	0
7/23/2024 17:34	50502	MECH_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
7/23/2024 17:35	52401	GRPA_T2	45	50	5	0.47	0.42	-0.05	-0.15	-0.14	0	0	0	0	0	0
7/23/2024 17:35	52404	GRPA_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/23/2024 17:35	52403	GRPA_T2	95	105	10	1.51	1.18	-0.33	0	0	0	0	0	0	0	0
7/23/2024 17:35	52402	GRPA_T2	4	9	5	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/23/2024 17:38	65603	QVIL_T2	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
7/23/2024 17:38	65604	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 17:38	58705	ROSE_T2	4	2	-2	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
7/23/2024 17:38	65601	QVIL_T2	2	1	-1	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/23/2024 17:38	58706	ROSE_T2	1	1	0	2	1.5	-0.5	0.2	0.21	1	1	0	600	600	0
7/23/2024 17:48	48302	ORWI_T2	6	3	-3	0.92	0	-0.92	-0.01	-0.07	0	0	0	0	0	0
7/23/2024 17:50	14404	SSLA_T1	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
7/23/2024 17:50	14403	SSLA_T1	5	5	0	0.8	0.63	-0.17	0.98	0.98	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/23/2024 17:51	14404	SSLA_T1	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
7/23/2024 17:51	14403	SSLA_T1	5	5	0	0.8	0.63	-0.17	0.98	0.93	1	1	0	600	600	0
7/23/2024 17:56	61303	EARL_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 17:56	58001	WCAR_T1	4	4	0	0.43	0.6	0.17	0	0	0	0	0	0	0	0
7/23/2024 17:56	61304	EARL_T1	0	0	0	0	0	0	0.18	0.15	1	1	0	600	600	0
7/23/2024 17:56	61302	EARL_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/23/2024 17:56	61701	ELIZ_T1	1	1	0	3.3	3.3	0	1.4	1.53	0	0	0	0	0	0
7/23/2024 17:56	58003	WCAR_T1	10	31	21	0.25	0.21	-0.04	0.64	0.63	1	1	0	600	600	0
7/23/2024 17:57	61701	ELIZ_T1	1	1	0	3.3	3.3	0	1.4	1.53	0	0	0	0	0	0
7/23/2024 17:58	61302	EARL_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/23/2024 17:58	61701	ELIZ_T1	1	1	0	3.3	3.3	0	1.4	1.53	0	0	0	0	0	0
7/23/2024 17:58	61303	EARL_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 17:58	61304	EARL_T1	0	0	0	0	0	0	0.18	0.15	1	1	0	600	600	0
7/23/2024 18:17	52403	GRPA_T2	68	61	-7	0.88	0.71	-0.17	-0.08	-0.07	0	0	0	0	0	0
7/23/2024 18:17	52402	GRPA_T2	14	8	-6	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/23/2024 18:17	52401	GRPA_T2	11	17	6	0.41	0.35	-0.06	0	0	0	0	0	0	0	0
7/23/2024 18:18	64204	KINZ_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/23/2024 18:18	64203	KINZ_T1	1	0	-1	0.6	0	-0.6	0.34	0.37	1	1	0	600	600	0
7/23/2024 18:20	44902	SCOT_T2	3	5	2	0.1	0.12	0.02	-0.46	-0.49	0	0	0	0	0	0
7/23/2024 18:34	41901	REED_T1	9	9	0	0.64	0.54	-0.1	0	0	0	0	0	0	0	0
7/23/2024 18:34	41902	REED_T1	1	5	4	0.1	0.47	0.37	0	0	0	0	0	0	0	0
7/23/2024 18:34	41903	REED_T1	0	0	0	0	0	0	0.46	0.47	1	1	0	1200	1200	0
7/23/2024 18:37	42504	ALTA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/23/2024 18:37	65802	RTWN_T2	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
7/23/2024 18:37	65803	RTWN_T2	5	0	-5	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/23/2024 18:37	42503	ALTA_T2	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
7/23/2024 18:42	10504	ORAC_T1	0	0	0	0	0	0	0.41	0.46	0	0	0	0	0	0
7/23/2024 18:47	64903	MILL_T2	5	10	5	0.12	0.16	0.04	-0.26	-0.26	0	0	0	0	0	0
7/23/2024 18:52	22701	MINO_T1	0	0	0	0	0	0	-0.48	-0.33	1	1	0	600	600	0
7/23/2024 18:52	58003	WCAR_T1	50	26	-24	0.32	0.2	-0.12	1.23	1.19	0	0	0	0	0	0
7/23/2024 18:52	58001	WCAR_T1	9	7	-2	0.48	0.49	0.01	0	0	0	0	0	0	0	0
7/23/2024 18:54	22002	BOHE_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
7/23/2024 18:57	67503	WEWI_T2	0	1	1	0	0	0	0.17	0.12	0	0	0	0	0	0
7/23/2024 18:59	63305	GREE_T1	2	3	1	0	0.2	0.2	-1.57	-1.55	1	1	0	900	900	0
7/23/2024 19:01	63305	GREE_T1	3	5	2	0.1	0.28	0.18	-1.57	-1.55	1	1	0	900	900	0
7/23/2024 19:01	63304	GREE_T1	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
7/23/2024 19:02	12006	HATF_T1	0	0	0	0	0	0	0.05	0.03	2	2	0	2400	2400	0
7/23/2024 19:10	22002	BOHE_T1	0	0	0	0	0	0	0.53	0.48	0	0	0	0	0	0
7/23/2024 19:12	51702	OBER_T1	2	2	0	2.15	2.3	0.15	0	0	0	0	0	0	0	0
7/23/2024 19:12	51704	OBER_T1	0	0	0	0	0	0	-1.19	-1.19	1	1	0	1200	1200	0
7/23/2024 19:17	63804	HEMP_T1	1	1	0	6.6	6.5	-0.1	0.07	0.06	0	0	0	0	0	0
7/23/2024 19:18	63201	MGTN_T2	3	2	-1	1.83	2.1	0.27	0.07	-0.04	2	2	0	1800	1800	0
7/23/2024 19:18	44301	BEAV_T2	1	3	2	2.1	1.1	-1	0.11	-0.19	1	1	0	600	600	0
7/23/2024 19:19	44301	BEAV_T2	1	3	2	2.1	1.1	-1	0.11	-0.19	1	1	0	600	600	0
7/23/2024 19:29	62102	ELAN_T1	0	0	0	0	0	0	0.87	0.91	0	0	0	0	0	0
7/23/2024 19:36	13501	MCMI_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
7/23/2024 19:36	61701	ELIZ_T1	1	1	0	4.1	4.3	0.2	1.39	1.34	0	0	0	0	0	0
7/23/2024 19:37	44905	SCOT_T1	5	2	-3	0.64	1	0.36	0	0	0	0	0	0	0	0
7/23/2024 20:06	52503	PROG_T2	0	0	0	0	0	0	0.06	-0.09	1	1	0	900	900	0
7/23/2024 20:21	63201	MGTN_T2	2	1	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/23/2024 20:21	63202	MGTN_T2	0	0	0	0	0	0	0.21	0.23	1	1	0	900	900	0
7/23/2024 20:35	14601	SWHI_T1	0	0	0	0	0	0	-1.33	-1.36	0	0	0	0	0	0
7/23/2024 21:03	22701	MINO_T1	0	0	0	0	0	0	-0.46	-0.45	1	1	0	600	600	0
7/23/2024 21:03	44801	EDAN_T2	11	35	24	0.22	0.3	0.08	0	0	0	0	0	0	0	0
7/23/2024 21:03	44802	EDAN_T2	0	0	0	0	0	0	-0.42	-0.38	0	0	0	0	0	0
7/23/2024 21:30	40602	PIGR_T1	0	0	0	0	0	0	-2.61	-2.68	2	2	0	1200	1200	0
7/23/2024 21:30	40601	PIGR_T1	12	9	-3	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
7/23/2024 21:38	29402	BELT_T1	1	1	0	8.8	9.5	0.7	0	0	0	0	0	0	0	0
7/23/2024 21:38	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	900	900	0
7/23/2024 21:39	44301	BEAV_T2	0	0	0	0	0	0	-0.14	-0.16	1	1	0	600	600	0
7/23/2024 21:40	56802	BENV_T2	3	1	-2	0.17	0.2	0.03	-1.8	-1.8	0	0	0	0	0	0
7/23/2024 21:41	43304	WATS_T2	1	1	0	0.4	0	-0.4	-0.28	-0.31	0	0	0	0	0	0
7/23/2024 21:41	43301	WATS_T2	0	0	0	0	0	0	-0.27	-0.29	1	1	0	900	900	0
7/23/2024 21:41	29402	BELT_T1	1	1	0	8.8	9.5	0.7	0	0	0	0	0	0	0	0
7/23/2024 21:41	56802	BENV_T2	3	1	-2	0.17	0.2	0.03	-0.9	-0.9	0	0	0	0	0	0
7/23/2024 21:41	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	900	900	0
7/23/2024 21:43	43304	WATS_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/23/2024 21:43	43301	WATS_T2	0	0	0	0	0	0	-0.27	-0.29	1	1	0	900	900	0
7/23/2024 21:45	56802	BENV_T2	1	0	-1	0.2	0	-0.2	-0.9	-0.9	0	0	0	0	0	0
7/23/2024 21:59	51002	NHAR_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
7/23/2024 21:59	60801	BUCK_T1	30	53	23	0.25	0.42	0.17	0	0	0	0	0	0	0	0
7/23/2024 21:59	56501	ROCK_T2	33	124	91	0.18	0.23	0.05	-1.22	-1.27	0	0	0	0	0	0
7/23/2024 21:59	51004	NHAR_T1	1	1	0	6.4	6.4	0	-1.42	-1.49	0	0	0	0	0	0
7/23/2024 21:59	60803	BUCK_T1	16	20	4	0.54	0.66	0.12	-0.32	-0.34	1	1	0	600	600	0
7/23/2024 22:00	60803	BUCK_T1	18	22	4	0.52	0.69	0.17	-0.64	-0.68	2	2	0	1200	1200	0
7/23/2024 22:00	60801	BUCK_T1	42	54	12	0.28	0.44	0.16	0	0	0	0	0	0	0	0
7/23/2024 22:00	56501	ROCK_T2	124	9	-115	0.23	0.23	0	-1.22	-1.27	0	0	0	0	0	0
7/23/2024 22:01	60803	BUCK_T1	18	22	4	0.52	0.69	0.17	-0.32	-0.34	1	1	0	600	600	0
7/23/2024 22:01	60801	BUCK_T1	42	54	12	0.28	0.44	0.16	0.03	0.02	0	0	0	0	0	0
7/23/2024 22:03	61701	ELIZ_T1	1	1	0	5.3	5	-0.3	1.3	1.07	0	0	0	0	0	0
7/23/2024 22:03	56501	ROCK_T2	124	9	-115	0.23	0.23	0	-3.66	-3.81	0	0	0	0	0	0
7/23/2024 22:04	44802	EDAN_T2	0	0	0	0	0	0	-0.48	-0.44	0	0	0	0	0	0
7/23/2024 22:04	44801	EDAN_T2	44	47	3	0.28	0.32	0.04	0	0	0	0	0	0	0	0
7/23/2024 22:05	55101	WERT_T1	0	0	0	0	0	0	-1.71	-1.71	3	3	0	2400	2400	0
7/23/2024 22:05	55103	WERT_T1	1	1	0	4.4	3.5	-0.9	0	0	0	0	0	0	0	0
7/23/2024 22:07	56501	ROCK_T2	124	9	-115	0.23	0.23	0	-2.54	-2.58	0	0	0	0	0	0
7/23/2024 22:09	64202	KINZ_T1	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
7/23/2024 22:09	64204	KINZ_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
7/23/2024 22:09	64201	KINZ_T1	1	2	1	1.3	0.8	-0.5	-0.45	-0.36	3	3	0	1500	1500	0
7/23/2024 22:10	64202	KINZ_T1	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
7/23/2024 22:10	56501	ROCK_T2	124	9	-115	0.23	0.23	0	-1.27	-1.29	0	0	0	0	0	0
7/23/2024 22:10	64201	KINZ_T1	1	2	1	1.3	0.8	-0.5	-0.45	-0.36	3	3	0	1500	1500	0
7/23/2024 22:10	64204	KINZ_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
7/23/2024 22:11	11102	EGYP_T1	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/23/2024 22:11	60801	BUCK_T1	42	54	12	0.28	0.44	0.16	0.02	-0.02	0	0	0	0	0	0
7/23/2024 22:11	52004	LING_T2	2	2	0	5.25	5.55	0.3	0.09	0.09	0	0	0	0	0	0
7/23/2024 22:11	11104	EGYP_T1	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
7/23/2024 22:11	63403	HONY_T2	0	0	0	0	0	0	-1.36	-1.39	1	1	0	600	600	0
7/23/2024 22:11	60803	BUCK_T1	18	22	4	0.52	0.69	0.17	0	0	0	0	0	0	0	0
7/23/2024 22:11	64201	KINZ_T1	1	2	1	1.3	0.8	-0.5	-0.45	-0.36	3	3	0	1500	1500	0
7/23/2024 22:11	64202	KINZ_T1	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
7/23/2024 22:11	52002	LING_T2	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
7/23/2024 22:11	63402	HONY_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
7/23/2024 22:11	64204	KINZ_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
7/23/2024 22:11	48302	ORWI_T2	2	2	0	0.5	0.4	-0.1	-0.4	-0.48	0	0	0	0	0	0
7/23/2024 22:12	11102	EGYP_T1	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/23/2024 22:12	11103	EGYP_T1	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
7/23/2024 22:12	61701	ELIZ_T1	1	1	0	5.3	5	-0.3	1.07	1.09	0	0	0	0	0	0
7/23/2024 22:12	52503	PROG_T2	0	0	0	0	0	0	-0.29	-0.32	1	1	0	900	900	0
7/23/2024 22:13	60201	ATGL_T2	29	34	5	0.17	0.19	0.02	0.69	0.92	1	0	-1	300	0	-300
7/23/2024 22:13	58006	WCAR_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
7/23/2024 22:13	58002	WCAR_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/23/2024 22:14	51603	DUKE_T1	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
7/23/2024 22:14	61303	EARL_T1	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
7/23/2024 22:14	61304	EARL_T1	0	0	0	0	0	0	-0.35	-0.37	1	1	0	600	600	0
7/23/2024 22:14	57101	SPHI_T2	6	6	0	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
7/23/2024 22:14	57106	SPHI_T2	3	3	0	0.8	0.87	0.07	0	0	0	0	0	0	0	0
7/23/2024 22:14	57104	SPHI_T2	0	0	0	0	0	0	-0.28	-0.36	0	0	0	0	0	0
7/23/2024 22:15	64903	MILL_T2	17	0	-17	0.17	0	-0.17	-0.36	-0.41	0	0	0	0	0	0
7/23/2024 22:16	51002	NHAR_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/23/2024 22:16	50506	MECH_T1	0	0	0	0	0	0	0.56	0.5	0	0	0	0	0	0
7/23/2024 22:16	65603	QVIL_T2	19	2	-17	0.17	0.15	-0.02	0.41	0.35	0	0	0	0	0	0
7/23/2024 22:16	13503	MCMI_T2	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
7/23/2024 22:16	50502	MECH_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/23/2024 22:16	13302	ORVI_T2	0	0	0	0	0	0	-0.65	-0.78	0	0	0	0	0	0
7/23/2024 22:16	65601	QVIL_T2	46	4	-42	0.21	0.25	0.04	0	0	0	0	0	0	0	0
7/23/2024 22:16	55103	WERT_T1	1	1	0	3.5	4.5	1	0	0	0	0	0	0	0	0
7/23/2024 22:16	51004	NHAR_T1	1	1	0	6.7	6.5	-0.2	-1.49	-1.52	0	0	0	0	0	0
7/23/2024 22:16	55101	WERT_T1	0	0	0	0	0	0	-1.71	-1.7	3	3	0	2400	2400	0
7/23/2024 22:16	65604	QVIL_T2	3	3	0	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
7/23/2024 22:16	64101	REFR_T1	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
7/23/2024 22:16	65602	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/23/2024 22:17	63804	HEMP_T1	1	1	0	6	6	0	-0.13	0.19	0	0	0	0	0	0
7/23/2024 22:17	55101	WERT_T1	0	0	0	0	0	0	-1.71	-1.7	3	3	0	2400	2400	0
7/23/2024 22:17	29402	BELT_T1	1	11	10	9.5	1.05	-8.45	0	0	0	0	0	0	0	0
7/23/2024 22:17	55103	WERT_T1	1	1	0	3.5	4.5	1	0	0	0	0	0	0	0	0
7/23/2024 22:17	15702	TANN_T2	0	0	0	0	0	0	-0.14	-0.18	0	0	0	0	0	0
7/23/2024 22:17	12801	MICK_T1	0	0	0	0	0	0	-0.75	-0.77	1	1	0	600	600	0
7/23/2024 22:17	67503	WEWI_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
7/23/2024 22:17	23202	HIRU_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
7/23/2024 22:17	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/23/2024 22:17	15703	TANN_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
7/23/2024 22:17	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/23/2024 22:18	11102	EGYP_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/23/2024 22:18	66505	SMAN_T2	0	1	1	0	0	0	0.11	0.05	3	3	0	2100	2100	0
7/23/2024 22:18	13905	SEID_T1	0	0	0	0	0	0	-0.57	-0.57	1	1	0	1200	1200	0
7/23/2024 22:18	67502	WEWI_T2	0	0	0	0	0	0	-0.96	-0.84	1	1	0	900	900	0
7/23/2024 22:18	20403	ASHF_T2	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
7/23/2024 22:18	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 22:18	11103	EGYP_T1	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
7/23/2024 22:18	20401	ASHF_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
7/23/2024 22:18	13904	SEID_T1	3	11	8	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/23/2024 22:18	64302	LINC_T2	1	0	-1	0.5	0	-0.5	1.4	1.42	0	0	0	0	0	0
7/23/2024 22:19	11102	EGYP_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/23/2024 22:19	60502	NMAN_T2	0	0	0	0	0	0	0.23	0.17	0	0	0	0	0	0
7/23/2024 22:19	11104	EGYP_T1	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
7/23/2024 22:19	58003	WCAR_T1	1	1	0	0.8	1.1	0.3	1.06	1.04	0	0	0	0	0	0
7/23/2024 22:19	13501	MCMI_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
7/23/2024 22:19	67502	WEWI_T2	0	0	0	0	0	0	-0.96	-0.84	1	1	0	900	900	0
7/23/2024 22:19	58001	WCAR_T1	4	4	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
7/23/2024 22:19	67602	WARW_T2	0	0	0	0	0	0	0.98	1.06	2	2	0	1500	1500	0
7/23/2024 22:20	63305	GREE_T1	15	8	-7	0.4	0.28	-0.12	-1.82	-1.76	1	1	0	900	900	0
7/23/2024 22:20	52004	LING_T2	2	2	0	5.5	5.9	0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/23/2024 22:20	52002	LING_T2	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
7/23/2024 22:20	64202	KINZ_T1	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
7/23/2024 22:20	55101	WERT_T1	0	0	0	0	0	0	-1.71	-1.7	3	3	0	2400	2400	0
7/23/2024 22:20	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/23/2024 22:20	64201	KINZ_T1	1	2	1	1.3	0.8	-0.5	-0.45	-0.36	3	3	0	1500	1500	0
7/23/2024 22:20	64302	LINC_T2	1	0	-1	0.5	0	-0.5	1.4	1.42	0	0	0	0	0	0
7/23/2024 22:20	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 22:20	66505	SMAN_T2	0	1	1	0	0	0	0.22	0.1	6	6	0	4200	4200	0
7/23/2024 22:20	55103	WERT_T1	1	1	0	3.5	4.5	1	0	0	0	0	0	0	0	0
7/23/2024 22:21	56803	BENV_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
7/23/2024 22:21	56801	BENV_T1	3	10	7	1.07	0.81	-0.26	0	0	0	0	0	0	0	0
7/23/2024 22:21	67605	WARW_T1	1	3	2	1	0.53	-0.47	-0.97	-1	0	0	0	0	0	0
7/23/2024 22:21	63304	GREE_T1	0	0	0	0	0	0	-1.18	-1.22	0	0	0	0	0	0
7/23/2024 22:21	63305	GREE_T1	15	8	-7	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
7/23/2024 22:21	65001	NEFF_T2	0	0	0	0	0	0	-0.36	-0.35	1	1	0	1200	1200	0
7/23/2024 22:21	55002	NEWP_T1	1	2	1	0.1	0.3	0.2	-0.1	-0.1	0	0	0	0	0	0
7/23/2024 22:21	61303	EARL_T1	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
7/23/2024 22:21	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
7/23/2024 22:21	61301	EARL_T1	0	0	0	0	0	0	-0.66	-0.66	1	1	0	900	900	0
7/23/2024 22:22	58003	WCAR_T1	1	1	0	0.8	1.1	0.3	1.04	1.06	0	0	0	0	0	0
7/23/2024 22:22	12001	HATF_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/23/2024 22:22	67502	WEWI_T2	0	0	0	0	0	0	-0.84	-0.91	1	1	0	900	900	0
7/23/2024 22:22	12006	HATF_T1	0	0	0	0	0	0	-0.55	-0.59	2	2	0	2400	2400	0
7/23/2024 22:22	48301	ORWI_T1	2	2	0	2.4	2.6	0.2	0.74	0.65	0	0	0	0	0	0
7/23/2024 22:22	10504	CRAC_T1	0	0	0	0	0	0	1.43	1.35	0	0	0	0	0	0
7/23/2024 22:22	63602	LETO_T1	0	0	0	0	0	0	-0.39	-0.43	1	1	0	600	600	0
7/23/2024 22:22	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
7/23/2024 22:22	10502	CRAC_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/23/2024 22:22	58001	WCAR_T1	4	4	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
7/23/2024 22:22	61102	BERK_T5	0	0	0	0	0	0	0	-0.03	2	2	0	600	600	0
7/23/2024 22:22	67803	WLAN_T1	0	0	0	0	0	0	-0.96	-0.99	0	0	0	0	0	0
7/23/2024 22:22	67801	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/23/2024 22:23	40802	EXCH_T2	0	0	0	0	0	0	-0.77	-0.8	0	0	0	0	0	0
7/23/2024 22:23	66902	SHIL_T2	40	1	-39	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
7/23/2024 22:23	13303	ORVI_T1	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
7/23/2024 22:23	52501	PROG_T1	0	0	0	0	0	0	-0.93	-0.99	1	1	0	300	300	0
7/23/2024 22:23	52403	GRPA_T2	8	7	-1	0.59	0.5	-0.09	0.27	0.27	0	0	0	0	0	0
7/23/2024 22:23	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/23/2024 22:23	56501	ROCK_T2	9	5	-4	0.23	0.28	0.05	-1.29	-1.35	0	0	0	0	0	0
7/23/2024 22:23	50506	MECH_T1	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
7/23/2024 22:23	40801	EXCH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/23/2024 22:23	66901	SHIL_T2	260	12	-248	0.39	0.16	-0.23	-0.33	-0.35	0	0	0	0	0	0
7/23/2024 22:23	14403	SSLA_T1	1	0	-1	0.1	0	-0.1	0.97	0.93	0	0	0	0	0	0
7/23/2024 22:23	16402	MOPO_T1	0	0	0	0	0	0	0.23	0.06	0	0	0	0	0	0
7/23/2024 22:23	50502	MECH_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/23/2024 22:23	24902	WHHA_T1	0	1	1	0	0.6	0.6	1.7	1.72	0	0	0	0	0	0
7/23/2024 22:23	67801	WLAN_T1	1	0	-1	0.1	0	-0.1	0.42	0.33	0	0	0	0	0	0
7/23/2024 22:23	56801	BENV_T1	3	10	7	1.07	0.81	-0.26	-0.37	-0.39	1	1	0	600	600	0
7/23/2024 22:23	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 22:23	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/23/2024 22:23	14404	SSLA_T1	1	1	0	3.6	4	0.4	0	0	0	0	0	0	0	0
7/23/2024 22:23	66903	SHIL_T2	12	0	-12	0.12	0	-0.12	0	0	0	0	0	0	0	0
7/23/2024 22:23	52404	GRPA_T2	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
7/23/2024 22:23	48301	ORWI_T1	2	2	0	2.4	2.6	0.2	0.74	0.65	0	0	0	0	0	0
7/23/2024 22:23	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
7/23/2024 22:23	58302	NOTT_T1	0	0	0	0	0	0	-0.88	-0.99	2	2	0	2100	2100	0
7/23/2024 22:24	65205	PRIN_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
7/23/2024 22:24	28704	HAML_T2	1	1	0	0.5	0.7	0.2	0.05	0.04	0	0	0	0	0	0
7/23/2024 22:24	15702	TANN_T2	0	0	0	0	0	0	-0.18	-0.14	0	0	0	0	0	0
7/23/2024 22:24	63305	GREE_T1	15	8	-7	0.4	0.28	-0.12	-1.76	-1.83	1	1	0	900	900	0
7/23/2024 22:24	52401	GRPA_T2	0	1	1	0	0.2	0.2	-0.33	-0.37	0	0	0	0	0	0
7/23/2024 22:24	61102	BERK_T5	0	0	0	0	0	0	0	-0.01	1	1	0	300	300	0
7/23/2024 22:24	15703	TANN_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
7/23/2024 22:24	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
7/23/2024 22:24	67801	WLAN_T1	1	0	-1	0.1	0	-0.1	0.42	0.33	0	0	0	0	0	0
7/23/2024 22:24	46206	DANV_T2	2	2	0	0.6	0.1	-0.5	2.19	2.12	2	2	0	2100	2100	0
7/23/2024 22:24	48301	ORWI_T1	2	2	0	2.4	2.6	0.2	0.74	0.65	0	0	0	0	0	0
7/23/2024 22:24	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/23/2024 22:24	16402	MOPO_T1	0	0	0	0	0	0	0.23	0.06	0	0	0	0	0	0
7/23/2024 22:24	56802	BENV_T2	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
7/23/2024 22:24	52004	LING_T2	2	2	0	5.5	5.9	0.4	0.09	0.05	0	0	0	0	0	0
7/23/2024 22:24	28703	HAML_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
7/23/2024 22:24	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 22:24	52403	GRPA_T2	8	7	-1	0.59	0.5	-0.09	0	0	0	0	0	0	0	0
7/23/2024 22:24	12701	MACU_T1	0	0	0	0	0	0	-0.88	-0.91	1	1	0	1200	1200	0
7/23/2024 22:25	64903	MILL_T2	17	0	-17	0.17	0	-0.17	0	0	0	0	0	0	0	0
7/23/2024 22:25	64201	KINZ_T1	1	2	1	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
7/23/2024 22:25	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
7/23/2024 22:25	56802	BENV_T2	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
7/23/2024 22:25	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/23/2024 22:25	64202	KINZ_T1	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
7/23/2024 22:25	64203	KINZ_T1	0	0	0	0	0	0	0.5	0.46	1	1	0	600	600	0
7/23/2024 22:25	64902	MILL_T2	0	0	0	0	0	0	-0.12	-0.8	1	1	0	900	900	0
7/23/2024 22:26	62102	ELAN_T1	0	0	0	0	0	0	0.47	1.41	0	0	0	0	0	0
7/23/2024 22:26	61304	EARL_T1	0	0	0	0	0	0	-0.37	-0.37	1	1	0	600	600	0
7/23/2024 22:26	47001	HUGH_T2	3	3	0	7.07	7.47	0.4	-0.48	-0.52	0	0	0	0	0	0
7/23/2024 22:26	63304	GREE_T1	0	0	0	0	0	0	-1.18	-1.22	0	0	0	0	0	0
7/23/2024 22:26	61303	EARL_T1	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
7/23/2024 22:26	67203	TEHI_T1	1	0	-1	0.4	0	-0.4	2.61	2.64	2	2	0	1500	1500	0
7/23/2024 22:26	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 22:26	63305	GREE_T1	15	8	-7	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
7/23/2024 22:26	61102	BERK_T5	0	0	0	0	0	0	0	-0.01	1	1	0	300	300	0
7/23/2024 22:26	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
7/23/2024 22:26	21204	ECAR_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/23/2024 22:26	21206	ECAR_T2	1	1	0	8.2	8.3	0.1	0.43	0.43	0	0	0	0	0	0
7/23/2024 22:27	45801	HEGI_T1	0	0	0	0	0	0	0.22	0.14	1	1	0	900	900	0
7/23/2024 22:27	12701	MACU_T1	0	0	0	0	0	0	-1.76	-1.82	2	2	0	2400	2400	0
7/23/2024 22:27	52404	GRPA_T2	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
7/23/2024 22:27	11804	FRAN_T1	25	16	-9	0.51	0.1	-0.41	0.48	-0.54	0	1	1	0	1200	1200
7/23/2024 22:27	13503	MCMI_T2	0	0	0	0	0	0	0.21	0.16	0	0	0	0	0	0
7/23/2024 22:27	52402	GRPA_T2	0	1	1	0	0.1	0	0	0	0	0	0	0	0	0
7/23/2024 22:27	20403	ASHF_T2	0	0	0	0	0	0	1.14	1.04	0	0	0	0	0	0
7/23/2024 22:27	25602	ARRO_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
7/23/2024 22:27	11102	EGYP_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/23/2024 22:27	54701	NEBL_T1	1	1	0	0.1	0.8	0.7	0	0	1	1	0	600	600	0
7/23/2024 22:27	58401	MORO_T1	0	0	0	0	0	0	-1.52	-1.54	1	1	0	600	600	0
7/23/2024 22:27	52403	GRPA_T2	8	7	-1	0.59	0.5	-0.09	0	0	0	0	0	0	0	0
7/23/2024 22:27	23001	SAJO_T1	0	0	0	0	0	0	0.19	0.22	0	0	0	0	0	0
7/23/2024 22:27	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/23/2024 22:27	64101	REFR_T1	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
7/23/2024 22:27	56801	BENV_T1	3	10	7	1.07	0.81	-0.26	-0.37	-0.39	1	1	0	600	600	0
7/23/2024 22:27	11104	EGYP_T1	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
7/23/2024 22:28	64101	REFR_T1	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
7/23/2024 22:28	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/23/2024 22:28	45802	HEGI_T2	13	41	28	0.38	0.61	0.23	0.67	0.54	1	1	0	300	300	0
7/23/2024 22:28	15702	TANN_T2	0	0	0	0	0	0	-0.18	-0.14	0	0	0	0	0	0
7/23/2024 22:28	55002	NEWP_T1	1	2	1	0.1	0.3	0.2	-0.2	-0.24	0	0	0	0	0	0
7/23/2024 22:28	40602	PIGR_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/23/2024 22:28	46206	DANV_T2	2	2	0	0.6	0.1	-0.5	2.19	2.12	2	2	0	2100	2100	0
7/23/2024 22:28	29402	BELT_T1	1	11	10	9.5	1.05	-8.45	0	0	0	0	0	0	0	0
7/23/2024 22:28	56802	BENV_T2	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
7/23/2024 22:28	22901	HARW_T1	0	0	0	0	0	0	-0.46	-0.38	1	1	0	1200	1200	0
7/23/2024 22:28	61103	BERK_T5	0	0	0	0	0	0	0.5	0.45	0	0	0	0	0	0
7/23/2024 22:28	48301	ORWI_T1	2	2	0	2.4	2.6	0.2	0.74	0.65	0	0	0	0	0	0
7/23/2024 22:28	44301	BEAV_T2	0	0	0	0	0	0	-0.16	-0.18	1	1	0	600	600	0
7/23/2024 22:28	40603	PIGR_T1	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
7/23/2024 22:28	61102	BERK_T5	0	0	0	0	0	0	0	-0.01	1	1	0	300	300	0
7/23/2024 22:28	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 22:28	13303	ORVI_T1	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
7/23/2024 22:28	57401	SPAN_T1	0	0	0	0	0	0	-0.95	-0.8	1	1	0	600	600	0
7/23/2024 22:28	15703	TANN_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
7/23/2024 22:29	14404	SSLA_T1	1	1	0	3.6	4	0.4	0	0	0	0	0	0	0	0
7/23/2024 22:29	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/23/2024 22:29	20403	ASHF_T2	0	0	0	0	0	0	0.57	0.52	0	0	0	0	0	0
7/23/2024 22:29	55101	WERT_T1	0	0	0	0	0	0	-1.7	-1.85	3	3	0	2400	2400	0
7/23/2024 22:29	14402	SSLA_T1	1	0	-1	0.1	0	-0.1	0.97	0.93	0	0	0	0	0	0
7/23/2024 22:29	56801	BENV_T1	3	10	7	1.07	0.81	-0.26	-0.37	-0.39	1	1	0	600	600	0
7/23/2024 22:29	24102	EHAZ_T1	17	4	-13	0.43	0.6	0.17	1.05	0.95	0	0	0	0	0	0
7/23/2024 22:29	24105	EHAZ_T1	4	4	0	6.55	6.35	-0.2	0	0	0	0	0	0	0	0
7/23/2024 22:29	51004	NHAR_T1	1	1	0	6.7	6.5	-0.2	-1.52	-1.55	0	0	0	0	0	0
7/23/2024 22:29	24902	WHHA_T1	0	1	1	0	0.6	0.6	0.85	0.86	0	0	0	0	0	0
7/23/2024 22:29	56802	BENV_T2	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
7/23/2024 22:29	51002	NHAR_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/23/2024 22:29	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 22:29	64305	LINC_T1	1	1	0	0.7	0.3	-0.4	-0.09	-0.14	0	0	0	0	0	0
7/23/2024 22:29	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.51	0	0	0	0	0	0
7/23/2024 22:29	22002	BOHE_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
7/23/2024 22:29	55103	WERT_T1	1	1	0	3.5	4.5	1	0	0	0	0	0	0	0	0
7/23/2024 22:30	41901	REED_T1	7	9	2	0.24	0.38	0.14	0	0	0	0	0	0	0	0
7/23/2024 22:30	24902	WHHA_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/23/2024 22:30	53902	HALI_T2	1	1	0	4.4	5	0.6	0	0	0	0	0	0	0	0
7/23/2024 22:30	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 22:30	52403	GRPA_T2	7	5	-2	0.69	0.4	-0.29	0	0	0	0	0	0	0	0
7/23/2024 22:30	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 22:30	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/23/2024 22:30	67401	WAKE_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/23/2024 22:30	46101	MACI_T2	0	0	0	0	0	0	0.69	0.7	0	0	0	0	0	0
7/23/2024 22:30	22904	HARW_T1	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
7/23/2024 22:30	43301	WATS_T2	0	0	0	0	0	0	-0.35	-0.38	1	1	0	900	900	0
7/23/2024 22:30	41903	REED_T1	0	0	0	0	0	0	0.23	0.21	1	1	0	1200	1200	0
7/23/2024 22:30	67402	WAKE_T2	0	0	0	0	0	0	0.04	-0.07	1	1	0	600	600	0
7/23/2024 22:30	66703	STRA_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
7/23/2024 22:30	52402	GRPA_T2	0	1	1	0	0.1	0.1	-0.54	-0.54	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/23/2024 22:30	24901	WHHA_T1	1	1	0	0	0	0	0.7	0.67	0	0	0	0	0	0
7/23/2024 22:30	53903	HALI_T2	2	2	0	0.5	0.5	0	-0.03	-0.04	0	0	0	0	0	0
7/23/2024 22:31	53903	HALI_T2	2	2	0	0.5	0.5	0	-0.03	-0.04	0	0	0	0	0	0
7/23/2024 22:31	56801	BENV_T1	9	9	0	0.72	1.04	0.32	-0.37	-0.39	1	1	0	600	600	0
7/23/2024 22:31	53902	HALI_T2	1	1	0	4.4	5	0.6	0	0	0	0	0	0	0	0
7/23/2024 22:31	47001	HUGH_T2	3	3	0	7.47	7.47	0	-0.48	-0.52	0	0	0	0	0	0
7/23/2024 22:31	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 22:31	59101	WALK_T2	0	0	0	0	0	0	-0.09	-0.15	0	0	0	0	0	0
7/23/2024 22:31	24901	WHHA_T1	1	1	0	0	0	0	0.7	0.67	0	0	0	0	0	0
7/23/2024 22:31	46206	DANV_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/23/2024 22:31	20403	ASHF_T2	0	0	0	0	0	0	0.57	0.52	0	0	0	0	0	0
7/23/2024 22:31	46203	DANV_T2	0	0	0	0	0	0	-0.4	-0.44	0	0	0	0	0	0
7/23/2024 22:31	24902	WHHA_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/23/2024 22:31	47101	MARL_T1	17	12	-5	0.75	0.43	-0.32	-0.46	-0.39	0	0	0	0	0	0
7/23/2024 22:32	55101	WERT_T1	0	0	0	0	0	0	-3.39	-3.7	6	6	0	4800	4800	0
7/23/2024 22:32	52403	GRPA_T2	7	5	-2	0.69	0.4	-0.29	0.27	0.27	0	0	0	0	0	0
7/23/2024 22:32	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/23/2024 22:32	51702	OBER_T1	2	2	0	1.95	2.3	0.35	0	0	0	0	0	0	0	0
7/23/2024 22:32	51704	OBER_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
7/23/2024 22:32	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 22:32	24702	FLND_T2	0	0	0	0	0	0	-0.09	0.16	1	1	0	1200	1200	0
7/23/2024 22:32	46206	DANV_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/23/2024 22:32	55103	WERT_T1	1	1	0	4.5	4.8	0.3	0	0	0	0	0	0	0	0
7/23/2024 22:32	55002	NEWP_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
7/23/2024 22:32	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/23/2024 22:32	52002	LING_T2	0	0	0	0	0	0	1.1	0.96	0	0	0	0	0	0
7/23/2024 22:32	46203	DANV_T2	0	0	0	0	0	0	-0.4	-0.44	0	0	0	0	0	0
7/23/2024 22:32	58705	ROSE_T2	5	5	0	1.52	1.92	0.4	0	0	0	0	0	0	0	0
7/23/2024 22:32	58706	ROSE_T2	1	1	0	1.1	0.8	-0.3	0.9	0.89	1	1	0	600	600	0
7/23/2024 22:32	56801	BENV_T1	9	9	0	0.72	1.04	0.32	-0.74	-0.78	2	2	0	1200	1200	0
7/23/2024 22:32	12701	MACU_T1	0	0	0	0	0	0	-0.88	-0.91	1	1	0	1200	1200	0
7/23/2024 22:32	55001	NEWP_T1	0	0	0	0	0	0	-0.04	-0.18	0	0	0	0	0	0
7/23/2024 22:32	43304	WATS_T2	0	1	1	0	0	0	-0.05	-0.09	0	0	0	0	0	0
7/23/2024 22:32	47101	MARL_T1	17	12	-5	0.75	0.43	-0.32	-0.46	-0.39	0	0	0	0	0	0
7/23/2024 22:32	58702	ROSE_T2	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
7/23/2024 22:32	52004	LING_T2	2	2	0	5.55	5.9	0.35	0.09	0.05	0	0	0	0	0	0
7/23/2024 22:32	53102	WTWN_T1	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
7/23/2024 22:33	25603	ARRO_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
7/23/2024 22:33	53901	HALI_T2	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
7/23/2024 22:33	50502	MECH_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
7/23/2024 22:33	44801	EDAN_T2	47	59	12	0.32	0.46	0.14	-3.08	-3.06	0	0	0	0	0	0
7/23/2024 22:33	56801	BENV_T1	9	9	0	0.72	1.04	0.32	-0.37	-0.39	1	1	0	600	600	0
7/23/2024 22:33	52403	GRPA_T2	7	5	-2	0.69	0.4	-0.29	0.27	0.27	0	0	0	0	0	0
7/23/2024 22:33	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/23/2024 22:33	40802	EXCH_T2	0	0	0	0	0	0	-0.77	-0.8	0	0	0	0	0	0
7/23/2024 22:33	57403	SPAN_T1	0	8	8	0	0.18	0.18	0	0	0	0	0	0	0	0
7/23/2024 22:33	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.51	0	0	0	0	0	0
7/23/2024 22:33	55002	NEWP_T1	0	2	2	0	0.7	0.7	-0.1	-0.12	0	0	0	0	0	0
7/23/2024 22:33	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/23/2024 22:33	42201	SHEN_T2	0	0	0	0	0	0	0.28	0.26	1	1	0	600	600	0
7/23/2024 22:33	59101	WALK_T2	0	0	0	0	0	0	-0.09	-0.15	0	0	0	0	0	0
7/23/2024 22:33	50506	MECH_T1	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
7/23/2024 22:33	53903	HALI_T2	2	2	0	0.5	0.5	0	-0.03	-0.04	0	0	0	0	0	0
7/23/2024 22:33	40801	EXCH_T2	1	1	0	4.8	0.2	-4.6	0	0	0	0	0	0	0	0
7/23/2024 22:33	44902	SCOT_T2	7	130	123	0.1	0.15	0.05	-0.62	-0.63	0	0	0	0	0	0
7/23/2024 22:33	24801	VALM_T1	1	1	0	0.8	0	-0.8	-0.17	-0.15	0	0	0	0	0	0
7/23/2024 22:33	44301	BEAV_T2	0	0	0	0	0	0	-0.16	-0.18	1	1	0	600	600	0
7/23/2024 22:33	53902	HALI_T2	1	1	0	4.4	5	0.6	0	0	0	0	0	0	0	0
7/23/2024 22:33	57401	SPAN_T1	0	0	0	0	0	0	-0.95	-0.8	1	1	0	600	600	0
7/23/2024 22:34	53903	HALI_T2	2	2	0	0.5	0.5	0	-0.03	-0.04	0	0	0	0	0	0
7/23/2024 22:34	53102	WTWN_T1	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
7/23/2024 22:34	44902	SCOT_T2	7	130	123	0.1	0.15	0.05	-0.62	-0.63	0	0	0	0	0	0
7/23/2024 22:34	48301	ORWI_T1	2	2	0	2.35	2.7	0.35	0.74	0.65	0	0	0	0	0	0
7/23/2024 22:34	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2024 22:34	52403	GRPA_T2	7	5	-2	0.69	0.4	-0.29	0.27	0.27	0	0	0	0	0	0
7/23/2024 22:34	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/23/2024 22:34	45802	HEGI_T2	21	41	20	0.45	0.61	0.16	0.67	0.54	1	1	0	300	300	0
7/23/2024 22:34	52002	LING_T2	0	0	0	0	0	0	0.55	0.48	0	0	0	0	0	0
7/23/2024 22:34	52004	LING_T2	2	2	0	5.55	5.9	0.35	0	0	0	0	0	0	0	0
7/23/2024 22:34	56801	BENV_T1	9	9	0	0.72	1.04	0.32	-0.74	-0.78	2	2	0	1200	1200	0
7/23/2024 22:34	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/23/2024 22:34	47101	MARL_T1	17	12	-5	0.75	0.43	-0.32	-0.46	-0.39	0	0	0	0	0	0
7/23/2024 22:34	53902	HALI_T2	1	1	0	4.4	5	0.6	0	0	0	0	0	0	0	0
7/23/2024 22:35	43202	MVIL_T2	42	60	18	0.26	0.44	0.18	-0.58	-0.59	0	0	0	0	0	0
7/23/2024 22:35	47001	HUGH_T2	3	3	0	7.47	7.47	0	-0.48	-0.52	0	0	0	0	0	0
7/23/2024 22:35	47401	PENS_T1	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
7/23/2024 22:35	43304	WATS_T2	0	1	1	0	0	0	-0.05	-0.09	0	0	0	0	0	0
7/23/2024 22:36	43304	WATS_T2	0	1	1	0	0	0	-0.09	-0.09	0	0	0	0	0	0
7/23/2024 22:36	47101	MARL_T1	17	12	-5	0.75	0.43	-0.32	-0.46	-0.39	0	0	0	0	0	0
7/23/2024 22:36	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.51	0	0	0	0	0	0
7/23/2024 22:36	42903	MIDD_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
7/23/2024 22:36	42503	ALTA_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
7/23/2024 22:36	44801	EDAN_T2	47	59	12	0.32	0.46	0.14	-1.53	-1.51	0	0	0	0	0	0
7/23/2024 22:37	41902	REED_T1	0	0	0	0	0	0	0.33	0.35	1	1	0	900	900	0
7/23/2024 22:37	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/23/2024 22:37	43202	MVIL_T2	42	60	18	0.26	0.44	0.18	-0.59	-0.58	0	0	0	0	0	0
7/23/2024 22:37	46203	DANV_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
7/23/2024 22:37	46801	HEPB_T2	3	2	-1	0.97	0.95	-0.02	-0.08	-0.11	0	0	0	0	0	0
7/23/2024 22:37	46206	DANV_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/23/2024 22:37	41901	REED_T1	7	9	2	0.24	0.38	0.14	0	0	0	0	0	0	0	0
7/23/2024 22:37	23001	SALO_T1	0	0	0	0	0	0	0.22	0.15	0	0	0	0	0	0
7/23/2024 22:37	44301	BEAV_T2	0	0	0	0	0	0	-0.18	-0.24	1	1	0	600	600	0
7/23/2024 22:38	40902	JESH_T1	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
7/23/2024 22:38	40901	JESH_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/23/2024 22:38	44902	SCOT_T2	7	130	123	0.1	0.15	0.05	-0.63	-0.64	0	0	0	0	0	0
7/23/2024 22:38	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0.6	0.63	0	0	0	0	0	0
7/23/2024 22:38	46801	HEPB_T2	3	2	-1	0.97	0.95	-0.02	0	0	0	0	0	0	0	0
7/23/2024 22:39	41902	REED_T1	0	0	0	0	0	0	0.33	0.35	1	1	0	900	900	0
7/23/2024 22:39	44902	SCOT_T2	7	130	123	0.1	0.15	0.05	0	0	0	0	0	0	0	0
7/23/2024 22:39	44901	SCOT_T2	0	0	0	0	0	0	0.16	0.09	0	0	0	0	0	0
7/23/2024 22:39	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.86	1	1	0	900	900	0
7/23/2024 22:39	41901	REED_T1	7	9	2	0.24	0.38	0.14	0	0	0	0	0	0	0	0
7/23/2024 22:40	44905	SCOT_T1	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/23/2024 22:43	22901	HARW_T1	0	0	0	0	0	0	-0.38	-0.38	1	1	0	1200	1200	0
7/23/2024 22:59	44801	EDAN_T2	46	59	13	0.36	0.46	0.1	-1.51	-1.55	0	0	0	0	0	0
7/24/2024 5:05	65901	SAKR_T2	1	1	0	7.9	7.7	-0.2	-1.34	-1.33	2	2	0	1500	1500	0
7/24/2024 5:36	63201	MGTN_T2	0	1	1	0	0	0	0.25	0.32	1	1	0	600	600	0
7/24/2024 7:33	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/24/2024 7:33	65603	QVIL_T2	0	0	0	0	0	0	0.84	0.96	0	0	0	0	0	0
7/24/2024 7:48	13303	ORVI_T1	0	0	0	0	0	0	0.16	0.24	0	0	0	0	0	0
7/24/2024 7:48	64101	REFR_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
7/24/2024 7:56	46206	DANV_T2	28	28	0	0.36	0.29	-0.07	3.15	2.37	1	1	0	1200	1200	0
7/24/2024 7:57	22002	BOHE_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
7/24/2024 8:07	17002	RIRO_T2	0	7	7	0	0.1	0.1	0.86	0.9	0	0	0	0	0	0
7/24/2024 8:10	61102	BERK_T5	0	0	0	0	0	0	0.08	0.23	1	1	0	300	300	0
7/24/2024 8:12	67803	WLAN_T1	0	0	0	0	0	0	-1.24	-1.22	0	0	0	0	0	0
7/24/2024 8:13	43103	SMIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/24/2024 8:13	43102	SMIL_T2	6	5	-1	0.38	0.14	-0.24	0	0	0	0	0	0	0	0
7/24/2024 8:13	24808	SMIL_T2	0	0	0	0	0	0	-0.3	-0.32	1	1	0	1200	1200	0
7/24/2024 8:15	47401	PENS_T1	2	2	0	0.6	0	-0.6	1.37	1.34	0	0	0	0	0	0
7/24/2024 8:15	47403	PENS_T1	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
7/24/2024 8:19	65601	QVIL_T2	0	0	0	0	0	0	-0.48	-0.53	1	1	0	900	900	0
7/24/2024 8:21	65603	QVIL_T2	0	0	0	0	0	0	0.91	0.9	0	0	0	0	0	0
7/24/2024 8:22	65603	QVIL_T2	0	0	0	0	0	0	0.91	0.9	0	0	0	0	0	0
7/24/2024 8:24	22002	BOHE_T1	0	0	0	0	0	0	0.39	0.48	0	0	0	0	0	0
7/24/2024 8:39	22002	BOHE_T1	0	4	4	0	0	0	0.48	0.43	0	0	0	0	0	0
7/24/2024 8:42	11102	EGYP_T1	0	1	1	0	0	0	-0.08	-0.06	0	0	0	0	0	0
7/24/2024 8:45	11102	EGYP_T1	1	1	0	0.2	0	-0.2	-0.08	-0.06	0	0	0	0	0	0
7/24/2024 8:46	40101	HUNT_T2	2	4	2	0.6	0.2	-0.4	0.07	-0.18	0	0	0	0	0	0
7/24/2024 8:58	43304	WATS_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
7/24/2024 8:58	43301	WATS_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/24/2024 9:00	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/24/2024 9:00	43304	WATS_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
7/24/2024 9:02	16401	MOPO_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
7/24/2024 9:07	15702	TANN_T2	0	0	0	0	0	0	-0.15	-0.11	0	0	0	0	0	0
7/24/2024 9:07	15703	TANN_T2	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
7/24/2024 9:08	20403	ASHF_T2	0	0	0	0	0	0	0.96	0.86	0	0	0	0	0	0
7/24/2024 9:08	20401	ASHF_T2	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
7/24/2024 9:08	15702	TANN_T2	0	0	0	0	0	0	-0.15	-0.11	0	0	0	0	0	0
7/24/2024 9:08	15703	TANN_T2	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
7/24/2024 9:10	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 9:10	11103	EGYP_T1	0	0	0	0	0	0	-0.68	-0.62	0	0	0	0	0	0
7/24/2024 9:11	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 9:11	58003	WCAR_T1	1	3	2	1.4	0.57	-0.83	1.01	1.02	0	0	0	0	0	0
7/24/2024 9:11	58001	WCAR_T1	4	4	0	1.08	0.95	-0.13	0	0	0	0	0	0	0	0
7/24/2024 9:11	11103	EGYP_T1	0	0	0	0	0	0	-1.36	-1.24	0	0	0	0	0	0
7/24/2024 9:15	11103	EGYP_T1	0	0	0	0	0	0	-0.68	-0.62	0	0	0	0	0	0
7/24/2024 9:15	11102	EGYP_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/24/2024 9:18	58401	MORO_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/24/2024 9:18	55405	SHER_T1	9	11	2	0.67	0.46	-0.21	-0.17	-0.17	0	0	0	0	0	0
7/24/2024 9:18	58402	MORO_T1	0	0	0	0	0	0	-0.63	-0.63	3	3	0	2400	2400	0
7/24/2024 9:21	52501	PROG_T1	0	0	0	0	0	0	-0.82	-0.85	1	1	0	300	300	0
7/24/2024 9:22	52501	PROG_T1	0	0	0	0	0	0	-0.85	-0.82	1	1	0	300	300	0
7/24/2024 9:44	14201	EALL_T1	0	0	0	0	0	0	0.35	0.29	0	0	0	0	0	0
7/24/2024 9:45	20603	GRWO_T2	0	0	0	0	0	0	-1.76	-1.75	2	2	0	2100	2100	0
7/24/2024 9:56	56802	BENV_T2	1	1	0	0.5	0.3	-0.2	-1.97	-1.93	0	0	0	0	0	0
7/24/2024 9:58	45802	HEGI_T2	3	10	7	0.37	0.35	-0.02	0.48	0.69	2	2	0	1200	1200	0
7/24/2024 9:58	56802	BENV_T2	1	1	0	0.5	0.3	-0.2	-0.99	-0.97	0	0	0	0	0	0
7/24/2024 10:00	44801	EDAN_T2	47	44	-3	0.36	0.29	-0.07	-1.38	-1.36	0	0	0	0	0	0
7/24/2024 10:00	45702	LIND_T2	0	1	1	0	0.1	0.1	-1.46	-1.41	0	0	0	0	0	0
7/24/2024 10:00	48301	ORWI_T1	2	2	0	1.4	1.3	-0.1	0.82	0.95	0	0	0	0	0	0
7/24/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	0.5	0.39	0	0	0	0	0	0
7/24/2024 10:00	40101	HUNT_T2	3	4	1	0.33	0.35	0.02	-0.19	-0.16	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/24/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
7/24/2024 10:00	45802	HEGI_T2	2	10	8	0.45	0.37	-0.08	0.48	0.69	2	2	0	1200	1200	0
7/24/2024 10:00	40505	CRES_T1	3	3	0	3.2	3.03	-0.17	0.66	0.63	0	0	0	0	0	0
7/24/2024 10:07	17002	RIRO_T2	0	1	1	0	0.1	0.1	1.04	0.96	0	0	0	0	0	0
7/24/2024 10:09	58003	WCAR_T1	1	1	0	1	0.9	-0.1	1.04	1.05	0	0	0	0	0	0
7/24/2024 10:09	58001	WCAR_T1	4	4	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
7/24/2024 10:11	56802	BENV_T2	1	1	0	0.1	0.5	0.4	-1.93	-1.89	0	0	0	0	0	0
7/24/2024 10:12	29402	BELT_T1	1	1	0	8	8.2	0.2	0	0	0	0	0	0	0	0
7/24/2024 10:12	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/24/2024 10:13	53901	HALI_T2	0	1	1	0	0.1	0.1	-1.19	-1.18	0	0	0	0	0	0
7/24/2024 10:13	53902	HALI_T2	1	1	0	4.6	5.4	0.8	0	0	0	0	0	0	0	0
7/24/2024 10:13	63304	GREE_T1	0	0	0	0	0	0	-2.19	-2.12	0	0	0	0	0	0
7/24/2024 10:13	53903	HALI_T2	2	2	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/24/2024 10:14	45802	HEGI_T2	2	10	8	0.45	0.37	-0.08	0.69	0.61	2	2	0	1200	1200	0
7/24/2024 10:14	56802	BENV_T2	1	1	0	0.1	0.5	0.4	-0.97	-0.94	0	0	0	0	0	0
7/24/2024 10:16	53901	HALI_T2	1	1	0	0.1	0.1	0	-1.19	-1.18	0	0	0	0	0	0
7/24/2024 10:16	53902	HALI_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
7/24/2024 10:16	53903	HALI_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
7/24/2024 10:17	53903	HALI_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
7/24/2024 10:17	64902	MILL_T2	0	0	0	0	0	0	-1.46	-1.45	2	2	0	1800	1800	0
7/24/2024 10:17	53902	HALI_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
7/24/2024 10:17	53901	HALI_T2	1	1	0	0.1	0.1	0	-2.38	-2.35	0	0	0	0	0	0
7/24/2024 10:19	52403	GRPA_T2	4	5	1	0.58	0.53	-0.05	-0.1	-0.09	0	0	0	0	0	0
7/24/2024 10:19	65501	MOJO_T1	0	0	0	0	0	0	-0.75	-0.65	1	1	0	900	900	0
7/24/2024 10:21	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 10:21	55405	SHER_T1	6	6	0	0.33	0.23	-0.1	-0.17	-0.17	0	0	0	0	0	0
7/24/2024 10:22	67401	WAKE_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
7/24/2024 10:22	59101	WALK_T2	1	1	0	1.1	0.9	-0.2	0.9	0.84	0	0	0	0	0	0
7/24/2024 10:22	53901	HALI_T2	1	1	0	0.1	0.1	0	-1.18	-1.16	0	0	0	0	0	0
7/24/2024 10:22	53903	HALI_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
7/24/2024 10:22	53902	HALI_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
7/24/2024 10:24	52501	PROG_T1	0	0	0	0	0	0	-0.68	-0.6	1	1	0	300	300	0
7/24/2024 10:24	20403	ASHF_T2	0	0	0	0	0	0	0.99	0.95	0	0	0	0	0	0
7/24/2024 10:24	20401	ASHF_T2	2	5	3	0.85	0.5	-0.35	0.26	0.4	0	0	0	0	0	0
7/24/2024 10:25	55101	WERT_T1	0	0	0	0	0	0	-1.7	-1.51	4	4	0	3300	3300	0
7/24/2024 10:26	56803	BENV_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/24/2024 10:26	56801	BENV_T1	5	5	0	0.98	0.56	-0.42	-0.51	-0.5	1	1	0	600	600	0
7/24/2024 10:26	59101	WALK_T2	1	1	0	1.1	0.9	-0.2	0.9	0.84	0	0	0	0	0	0
7/24/2024 10:27	11103	EGYP_T1	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
7/24/2024 10:27	20401	ASHF_T2	2	5	3	0.85	0.5	-0.35	0	0	0	0	0	0	0	0
7/24/2024 10:27	44801	EDAN_T2	43	17	-26	0.28	0.21	-0.07	-1.34	-1.33	0	0	0	0	0	0
7/24/2024 10:27	11102	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/24/2024 10:27	20403	ASHF_T2	0	0	0	0	0	0	0.99	0.95	0	0	0	0	0	0
7/24/2024 10:27	11101	EGYP_T1	0	0	0	0	0	0	0.82	0.83	0	0	0	0	0	0
7/24/2024 10:27	11104	EGYP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 10:28	11102	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/24/2024 10:28	44801	EDAN_T2	43	17	-26	0.28	0.21	-0.07	-1.34	-1.33	0	0	0	0	0	0
7/24/2024 10:28	56801	BENV_T1	5	5	0	0.98	0.56	-0.42	-0.51	-0.5	1	1	0	600	600	0
7/24/2024 10:28	56803	BENV_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/24/2024 10:28	56802	BENV_T2	1	3	2	0.3	0.3	0	-0.94	-0.92	0	0	0	0	0	0
7/24/2024 10:28	11103	EGYP_T1	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
7/24/2024 10:28	11104	EGYP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 10:30	56803	BENV_T1	1	2	1	0.3	1.65	1.35	0	0	0	0	0	0	0	0
7/24/2024 10:30	56801	BENV_T1	5	5	0	0.56	0.5	-0.06	-0.51	-0.5	1	1	0	600	600	0
7/24/2024 10:31	58402	MORO_T1	1	0	-1	0.2	0	-0.2	-0.66	-0.62	3	3	0	2400	2400	0
7/24/2024 10:34	65502	MOJO_T2	0	0	0	0	0	0	-0.38	-0.41	1	1	0	900	900	0
7/24/2024 10:38	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 10:38	24902	WHHA_T1	2	2	0	0.4	0.7	0.3	0.9	0.9	0	0	0	0	0	0
7/24/2024 10:38	59202	THOM_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/24/2024 10:39	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 10:39	24902	WHHA_T1	2	2	0	0.4	0.7	0.3	0.9	0.9	0	0	0	0	0	0
7/24/2024 10:40	67804	WLAN_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
7/24/2024 10:40	67803	WLAN_T1	0	0	0	0	0	0	-1.11	-1.09	0	0	0	0	0	0
7/24/2024 10:46	23203	HIRU_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
7/24/2024 10:46	56802	BENV_T2	3	1	-2	0.3	0.8	0.5	-0.92	-0.9	0	0	0	0	0	0
7/24/2024 10:46	23201	HIRU_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/24/2024 10:47	23202	HIRU_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
7/24/2024 10:47	23201	HIRU_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/24/2024 10:49	56501	ROCK_T2	4	4	0	0.5	0.17	-0.33	-1.5	-1.47	0	0	0	0	0	0
7/24/2024 10:49	43202	MVIL_T2	13	20	7	0.18	0.21	0.03	-0.43	-0.43	0	0	0	0	0	0
7/24/2024 10:50	65001	NEFF_T2	0	0	0	0	0	0	0.27	0.44	1	1	0	1200	1200	0
7/24/2024 10:51	56501	ROCK_T2	4	4	0	0.5	0.17	-0.33	-1.5	-1.47	0	0	0	0	0	0
7/24/2024 10:52	56501	ROCK_T2	4	4	0	0.5	0.17	-0.33	-1.47	-1.34	0	0	0	0	0	0
7/24/2024 10:53	66505	SMAN_T2	0	3	3	0	0	0	0.34	0.55	4	4	0	2300	2300	0
7/24/2024 10:53	56501	ROCK_T2	4	4	0	0.5	0.17	-0.33	-2.93	-2.68	0	0	0	0	0	0
7/24/2024 10:54	46206	DANV_T2	22	33	11	0.37	0.43	0.06	2.16	2.17	2	2	0	2100	2100	0
7/24/2024 10:55	46206	DANV_T2	22	33	11	0.37	0.43	0.06	2.16	2.17	2	2	0	2100	2100	0
7/24/2024 10:56	29402	BELT_T1	1	35	34	9.4	0.53	-8.87	0	0	0	0	0	0	0	0
7/24/2024 10:56	56501	ROCK_T2	4	4	0	0.5	0.17	-0.33	-1.47	-1.34	0	0	0	0	0	0
7/24/2024 10:56	44802	EDAN_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
7/24/2024 10:56	44801	EDAN_T2	14	12	-2	0.19	0.21	0.02	0	0	0	0	0	0	0	0
7/24/2024 10:56	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 10:57	44801	EDAN_T2	14	12	-2	0.19	0.21	0.02	0	0	0	0	0	0	0	0
7/24/2024 10:57	44802	EDAN_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
7/24/2024 10:58	44801	EDAN_T2	14	12	-2	0.19	0.21	0.02	0	0	0	0	0	0	0	0
7/24/2024 10:58	44802	EDAN_T2	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
7/24/2024 10:59	44802	EDAN_T2	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
7/24/2024 10:59	44801	EDAN_T2	14	12	-2	0.19	0.21	0.02	0	0	0	0	0	0	0	0
7/24/2024 11:03	47401	PENS_T1	6	7	1	0.63	0.84	0.21	0.45	0.34	0	0	0	0	0	0
7/24/2024 11:03	47402	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/24/2024 11:03	47403	PENS_T1	1	0	-1	1.5	2.1	0.6	0	0	0	0	0	0	0	0
7/24/2024 11:04	55001	NEWP_T1	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
7/24/2024 11:04	55002	NEWP_T1	3	3	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
7/24/2024 11:05	13905	SEID_T1	0	0	0	0	0	0	-0.58	-0.55	1	1	0	1200	1200	0
7/24/2024 11:05	56501	ROCK_T2	3	3	0	0.17	0.27	0.1	-1.47	-1.34	0	0	0	0	0	0
7/24/2024 11:05	55002	NEWP_T1	3	3	0	0.23	0.3	0.07	-0.09	-0.08	0	0	0	0	0	0
7/24/2024 11:06	55002	NEWP_T1	3	3	0	0.23	0.3	0.07	-0.09	-0.08	0	0	0	0	0	0
7/24/2024 11:06	56501	ROCK_T2	3	3	0	0.17	0.27	0.1	-1.47	-1.34	0	0	0	0	0	0
7/24/2024 11:07	56501	ROCK_T2	3	3	0	0.17	0.27	0.1	-2.68	-2.62	0	0	0	0	0	0
7/24/2024 11:07	55002	NEWP_T1	3	3	0	0.23	0.3	0.07	-0.08	-0.07	0	0	0	0	0	0
7/24/2024 11:09	24902	WHHA_T1	1	4	3	0.7	0.8	0.1	0.91	0.92	0	0	0	0	0	0
7/24/2024 11:09	55002	NEWP_T1	3	3	0	0.23	0.3	0.07	-0.08	-0.07	0	0	0	0	0	0
7/24/2024 11:09	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 11:10	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 11:10	24902	WHHA_T1	1	4	3	0.7	0.8	0.1	0.91	0.92	0	0	0	0	0	0
7/24/2024 11:12	56801	BENV_T1	3	4	1	0.3	0.63	0.33	0	0	0	0	0	0	0	0
7/24/2024 11:12	11104	EGYP_T1	5	5	0	0.2	0.52	0.32	0	0	0	0	0	0	0	0
7/24/2024 11:12	11102	EGYP_T1	1	1	0	0.5	0.7	0.2	0.1	0.12	0	0	0	0	0	0
7/24/2024 11:12	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 11:12	56803	BENV_T1	2	2	0	1.95	1.5	-0.45	0.87	0.34	0	1	1	0	600	600
7/24/2024 11:14	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 11:14	46203	DANV_T2	0	0	0	0	0	0	-0.21	-0.17	0	0	0	0	0	0
7/24/2024 11:14	11102	EGYP_T1	1	1	0	0.5	0.7	0.2	0.1	0.12	0	0	0	0	0	0
7/24/2024 11:14	46206	DANV_T2	23	38	15	0.46	0.34	-0.12	0	0	0	0	0	0	0	0
7/24/2024 11:14	11104	EGYP_T1	5	5	0	0.2	0.52	0.32	0	0	0	0	0	0	0	0
7/24/2024 11:15	54504	ENOL_T2	0	0	0	0	0	0	-0.8	-0.78	1	1	0	600	600	0
7/24/2024 11:16	52004	LING_T2	2	2	0	4.7	4.45	-0.25	0	0	0	0	0	0	0	0
7/24/2024 11:16	52002	LING_T2	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
7/24/2024 11:17	40101	HUNT_T2	13	72	59	0.36	0.47	0.11	-0.06	-0.08	0	0	0	0	0	0
7/24/2024 11:18	52004	LING_T2	2	2	0	4.7	4.45	-0.25	0	0	0	0	0	0	0	0
7/24/2024 11:18	52002	LING_T2	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
7/24/2024 11:19	64305	LINC_T1	0	0	0	0	0	0	0.33	0.24	0	0	0	0	0	0
7/24/2024 11:19	40101	HUNT_T2	13	72	59	0.36	0.47	0.11	-0.06	-0.08	0	0	0	0	0	0
7/24/2024 11:20	55001	NEWP_T1	0	0	0	0	0	0	0.18	0.23	0	0	0	0	0	0
7/24/2024 11:20	55002	NEWP_T1	2	2	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/24/2024 11:24	67602	WARW_T2	0	0	0	0	0	0	1.02	1.05	2	2	0	1500	1500	0
7/24/2024 11:25	57002	WHHI_T2	0	0	0	0	0	0	-1.63	-1.59	1	1	0	1200	1200	0
7/24/2024 11:26	56801	BENV_T1	2	4	2	0.4	0.63	0.23	-0.45	-0.43	1	1	0	600	600	0
7/24/2024 11:26	41602	CLEV_T1	0	10	10	0	0.65	0.65	0	0	1	1	0	600	600	0
7/24/2024 11:26	56803	BENV_T1	2	2	0	2.3	1.45	-0.85	0	0	0	0	0	0	0	0
7/24/2024 11:28	43304	WATS_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
7/24/2024 11:28	56801	BENV_T1	2	4	2	0.4	0.63	0.23	-0.91	-0.86	2	2	0	1200	1200	0
7/24/2024 11:28	45801	HEGI_T1	0	0	0	0	0	0	-0.18	-0.19	1	1	0	900	900	0
7/24/2024 11:28	56803	BENV_T1	2	2	0	2.3	1.45	-0.85	0	0	0	0	0	0	0	0
7/24/2024 11:30	56803	BENV_T1	2	3	1	1.5	1.5	0	0	0	0	0	0	0	0	0
7/24/2024 11:30	43303	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/24/2024 11:30	56801	BENV_T1	4	0	-4	0.63	0	-0.63	-0.45	-0.43	1	1	0	600	600	0
7/24/2024 11:30	43304	WATS_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
7/24/2024 11:34	47403	PENS_T1	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
7/24/2024 11:34	47401	PENS_T1	4	3	-1	0.83	0.8	-0.03	0.37	0.38	0	0	0	0	0	0
7/24/2024 11:37	60502	NMAN_T2	0	0	0	0	0	0	0.73	0.78	0	0	0	0	0	0
7/24/2024 11:39	20403	ASHF_T2	0	0	0	0	0	0	1.12	1.05	0	0	0	0	0	0
7/24/2024 11:39	20402	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 11:39	20401	ASHF_T2	4	5	1	0.88	1.14	0.26	0	0	0	0	0	0	0	0
7/24/2024 11:40	67602	WARW_T2	0	0	0	0	0	0	1.05	1.09	2	2	0	1500	1500	0
7/24/2024 11:40	44301	BEAV_T2	3	2	-1	1.13	0	-1.13	0	0	0	0	0	0	0	0
7/24/2024 11:41	20401	ASHF_T2	4	5	1	0.88	1.14	0.26	0	0	0	0	0	0	0	0
7/24/2024 11:41	67602	WARW_T2	0	0	0	0	0	0	1.05	1.09	2	2	0	1500	1500	0
7/24/2024 11:41	20403	ASHF_T2	0	0	0	0	0	0	2.24	2.11	0	0	0	0	0	0
7/24/2024 11:41	67605	WARW_T1	0	0	0	0	0	0	-0.83	-0.79	0	0	0	0	0	0
7/24/2024 11:41	20402	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 11:42	44801	EDAN_T2	6	3	-3	0.3	0.57	0.27	-1.24	-1.21	0	0	0	0	0	0
7/24/2024 11:43	56803	BENV_T1	2	3	1	1.5	1.5	0	0	0	0	0	0	0	0	0
7/24/2024 11:43	56801	BENV_T1	4	0	-4	0.63	0	-0.63	-0.43	-0.41	1	1	0	600	600	0
7/24/2024 11:44	67602	WARW_T2	0	0	0	0	0	0	1.05	1.09	2	2	0	1500	1500	0
7/24/2024 11:45	21206	ECAR_T2	6	4	-2	1.4	7.6	6.2	0.73	0.73	0	0	0	0	0	0
7/24/2024 11:45	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 11:46	44801	EDAN_T2	2	4	2	0.5	0.7	0.2	-1.24	-1.21	0	0	0	0	0	0
7/24/2024 11:48	52403	GRPA_T2	11	20	9	0.89	0.49	-0.4	0.53	0.47	0	0	0	0	0	0
7/24/2024 11:48	64201	KINZ_T1	1	3	2	2.3	0.4	-1.9	-0.15	-0.09	8	8	0	4200	4200	0
7/24/2024 11:48	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 11:48	64204	KINZ_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
7/24/2024 11:48	64203	KINZ_T1	2	2	0	1.7	1.95	0.25	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/24/2024 11:48	41902	REED_T1	0	1	1	0	0	0	0.58	0.59	1	1	0	900	900	0
7/24/2024 11:52	41902	REED_T1	0	1	1	0	0	0	0.59	0.61	1	1	0	900	900	0
7/24/2024 11:53	25503	MADI_T1	4	3	-1	0.13	0.33	0.2	-0.69	-0.68	0	0	0	0	0	0
7/24/2024 11:53	25502	MADI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/24/2024 11:53	66703	STRA_T1	2	3	1	0.2	0	-0.2	0.73	0.8	0	0	0	0	0	0
7/24/2024 11:53	25501	MADI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/24/2024 11:53	41902	REED_T1	0	1	1	0	0	0	0.59	0.61	1	1	0	900	900	0
7/24/2024 11:56	53903	HALI_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
7/24/2024 11:56	53902	HALI_T2	1	1	0	4.2	4	-0.2	-0.51	-0.5	0	0	0	0	0	0
7/24/2024 11:58	67602	WARW_T2	0	0	0	0	0	0	1.09	1.12	2	2	0	1500	1500	0
7/24/2024 12:00	11804	FRAN_T1	6	2	-4	0.52	0.4	-0.12	0.71	0.74	1	1	0	1200	1200	0
7/24/2024 12:01	12801	MICK_T1	0	0	0	0	0	0	-0.28	-0.25	1	1	0	600	600	0
7/24/2024 12:02	53903	HALI_T2	2	2	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
7/24/2024 12:02	40101	HUNT_T2	58	74	16	0.49	0.42	-0.07	-0.09	-0.1	0	0	0	0	0	0
7/24/2024 12:02	53902	HALI_T2	1	1	0	4	4	0	0	0	0	0	0	0	0	0
7/24/2024 12:02	53901	HALI_T2	0	0	0	0	0	0	-1.09	-1.07	0	0	0	0	0	0
7/24/2024 12:03	52002	LING_T2	0	6	6	0	0.2	0.2	0.75	0.81	0	0	0	0	0	0
7/24/2024 12:03	40101	HUNT_T2	58	74	16	0.49	0.42	-0.07	-0.09	-0.1	0	0	0	0	0	0
7/24/2024 12:03	52004	LING_T2	2	2	0	4.65	4.3	-0.35	0	0	0	0	0	0	0	0
7/24/2024 12:04	52004	LING_T2	2	2	0	4.65	4.3	-0.35	0	0	0	0	0	0	0	0
7/24/2024 12:04	52002	LING_T2	0	6	6	0	0.2	0.2	1.5	1.62	0	0	0	0	0	0
7/24/2024 12:05	52004	LING_T2	2	2	0	4.65	4.3	-0.35	0	0	0	0	0	0	0	0
7/24/2024 12:05	52002	LING_T2	0	6	6	0	0.2	0.2	0.75	0.81	0	0	0	0	0	0
7/24/2024 12:06	64101	REFR_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
7/24/2024 12:06	52002	LING_T2	0	6	6	0	0.2	0.2	0.75	0.81	0	0	0	0	0	0
7/24/2024 12:06	52004	LING_T2	2	2	0	4.65	4.3	-0.35	0	0	0	0	0	0	0	0
7/24/2024 12:06	67505	WEWI_T1	0	0	0	0	0	0	0.74	0.69	1	1	0	900	900	0
7/24/2024 12:07	64101	REFR_T1	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
7/24/2024 12:07	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
7/24/2024 12:07	15702	TANN_T2	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
7/24/2024 12:08	64101	REFR_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
7/24/2024 12:08	15702	TANN_T2	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
7/24/2024 12:08	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
7/24/2024 12:09	15702	TANN_T2	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
7/24/2024 12:09	64101	REFR_T1	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
7/24/2024 12:09	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
7/24/2024 12:14	11101	EGYP_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/24/2024 12:14	11104	EGYP_T1	5	5	0	0.9	1.26	0.36	1.1	1.12	0	0	0	0	0	0
7/24/2024 12:14	11102	EGYP_T1	1	2	1	1.1	1.4	0.3	0	0	0	0	0	0	0	0
7/24/2024 12:15	11101	EGYP_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/24/2024 12:15	11104	EGYP_T1	5	5	0	1.26	1.76	0.5	1.1	1.12	0	0	0	0	0	0
7/24/2024 12:15	11102	EGYP_T1	2	3	1	0.8	1.4	0.6	0	0	0	0	0	0	0	0
7/24/2024 12:16	44801	EDAN_T2	4	4	0	0.7	1.08	0.38	-1.19	-1.19	0	0	0	0	0	0
7/24/2024 12:18	52002	LING_T2	2	6	4	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/24/2024 12:18	52004	LING_T2	2	2	0	4.3	4.5	0.2	0.55	0.56	0	0	0	0	0	0
7/24/2024 12:24	43802	SWIL_T1	0	0	0	0	0	0	0.26	0.27	1	1	0	600	600	0
7/24/2024 12:24	43801	SWIL_T1	2	2	0	2.65	2.7	0.05	0	0	0	0	0	0	0	0
7/24/2024 12:26	67801	WLAN_T1	24	21	-3	0.52	0.7	0.18	0.57	-0.52	0	0	0	0	0	0
7/24/2024 12:26	67804	WLAN_T1	2	9	7	0.35	0.45	0.1	0	0	0	0	0	0	0	0
7/24/2024 12:30	43301	WATS_T2	0	0	0	0	0	0	-0.29	-0.27	1	1	0	900	900	0
7/24/2024 12:33	13503	MCMI_T2	23	6	-17	0.21	0.37	0.16	-0.75	-0.74	0	0	0	0	0	0
7/24/2024 12:34	52004	LING_T2	2	2	0	4.25	4.55	0.3	0.56	0.57	0	0	0	0	0	0
7/24/2024 12:34	13503	MCMI_T2	23	6	-17	0.21	0.37	0.16	-0.75	-0.74	0	0	0	0	0	0
7/24/2024 12:34	52002	LING_T2	6	0	-6	0.33	0	-0.33	0	0	0	0	0	0	0	0
7/24/2024 12:36	47401	PENS_T1	1	6	5	0.2	1	0.8	0.53	0.71	0	0	0	0	0	0
7/24/2024 12:36	47403	PENS_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/24/2024 12:36	47402	PENS_T1	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
7/24/2024 12:46	12803	MICK_T1	0	0	0	0	0	0	1.13	1.14	0	0	0	0	0	0
7/24/2024 12:49	16402	MOPO_T1	0	6	6	0	1.33	1.33	0.74	0.64	0	0	0	0	0	0
7/24/2024 12:49	16401	MOPO_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/24/2024 12:52	55001	NEWP_T1	0	0	0	0	0	0	0.71	0.76	0	0	0	0	0	0
7/24/2024 12:52	40301	TAMA_T3	2	3	1	1	0.25	-0.75	0	0	0	0	0	0	0	0
7/24/2024 12:52	55002	NEWP_T1	0	2	2	0	1.5	1.5	0	0	0	0	0	0	0	0
7/24/2024 12:52	40302	TAMA_T3	0	6	6	0	0.4	0.4	-1.11	-1.1	1	1	0	1200	1200	0
7/24/2024 12:54	43402	BENT_T1	0	2	2	0	0.25	0.25	-0.49	-0.48	1	1	0	900	900	0
7/24/2024 12:56	24901	WHHA_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 12:56	24902	WHHA_T1	7	9	2	0.99	1.04	0.05	0.97	0.98	0	0	0	0	0	0
7/24/2024 12:57	43402	BENT_T1	0	2	2	0	0.25	0.25	-0.49	-0.48	1	1	0	900	900	0
7/24/2024 13:01	12701	MACU_T1	0	0	0	0	0	0	-0.75	-0.75	1	1	0	1200	1200	0
7/24/2024 13:03	20601	GRWO_T2	0	3	3	0	0.93	0.93	0	0	0	0	0	0	0	0
7/24/2024 13:03	20603	GRWO_T2	0	0	0	0	0	0	-1.67	-1.66	2	2	0	2100	2100	0
7/24/2024 13:04	65802	RTWN_T2	0	0	0	0	0	0	-0.46	-0.43	0	0	0	0	0	0
7/24/2024 13:04	24202	PROV_T4	1	0	-1	6.5	0	-6.5	0.11	0.17	1	1	0	1200	1200	0
7/24/2024 13:04	24206	PROV_T4	0	8	8	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 13:05	66203	SISP_T2	1	0	-1	3.1	0	-3.1	0.14	0.21	2	2	0	1800	1800	0
7/24/2024 13:05	65802	RTWN_T2	0	0	0	0	0	0	-0.46	-0.43	0	0	0	0	0	0
7/24/2024 13:05	65206	PRIN_T4	1	0	-1	3	0	-3	0	0	0	0	0	0	0	0
7/24/2024 13:05	65207	PRIN_T4	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/24/2024 13:05	12701	MACU_T1	0	0	0	0	0	0	-0.75	-0.75	1	1	0	1200	1200	0
7/24/2024 13:05	66703	STRA_T1	0	0	0	0	0	0	-0.25	-0.17	0	0	0	0	0	0
7/24/2024 13:05	27604	PIRI_T1	0	0	0	0	0	0	-0.02	0.01	0	0	0	0	0	0
7/24/2024 13:06	24204	PROV_T3	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
7/24/2024 13:06	65503	MOJO_T2	0	0	0	0	0	0	0.1	0.22	1	1	0	900	900	0
7/24/2024 13:06	66001	RHEE_T2	0	0	0	0	0	0	-0.51	-0.5	2	2	0	2100	2100	0
7/24/2024 13:06	66701	STRA_T1	0	0	0	0	0	0	0.71	0.75	1	1	0	600	600	0
7/24/2024 13:06	65502	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 13:06	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 13:06	66702	STRA_T1	0	0	0	0	0	0	0.13	0.21	2	2	0	1500	1500	0
7/24/2024 13:06	24201	PROV_T3	3	3	0	3.67	8.8	5.13	-1.69	-1.64	2	2	0	2400	2400	0
7/24/2024 13:07	14605	SWHI_T1	1	1	0	0.2	0.2	0	2.11	2.07	1	1	0	1200	1200	0
7/24/2024 13:07	14601	SWHI_T1	0	0	0	0	0	0	-1.57	-1.51	0	0	0	0	0	0
7/24/2024 13:07	65207	PRIN_T4	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/24/2024 13:07	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/24/2024 13:07	65802	RTWN_T2	0	0	0	0	0	0	-0.86	-0.8	0	0	0	0	0	0
7/24/2024 13:07	65206	PRIN_T4	1	0	-1	3	0	-3	0	0	0	0	0	0	0	0
7/24/2024 13:08	27604	PIRI_T1	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
7/24/2024 13:08	47402	PENS_T1	3	2	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
7/24/2024 13:08	14605	SWHI_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/24/2024 13:08	47403	PENS_T1	2	1	-1	0.25	0.6	0.35	0	0	0	0	0	0	0	0
7/24/2024 13:08	47401	PENS_T1	6	4	-2	1.05	0.8	-0.25	0.71	0.73	0	0	0	0	0	0
7/24/2024 13:08	14601	SWHI_T1	0	0	0	0	0	0	-3.92	-3.77	0	0	0	0	0	0
7/24/2024 13:09	47402	PENS_T1	3	2	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
7/24/2024 13:09	14605	SWHI_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/24/2024 13:09	65802	RTWN_T2	0	0	0	0	0	0	-0.43	-0.4	0	0	0	0	0	0
7/24/2024 13:09	66702	STRA_T1	0	0	0	0	0	0	0.13	0.21	2	2	0	1500	1500	0
7/24/2024 13:09	52502	PROG_T2	0	0	0	0	0	0	0.21	0.27	2	2	0	1800	1800	0
7/24/2024 13:09	47401	PENS_T1	6	4	-2	1.05	0.8	-0.25	0.71	0.73	0	0	0	0	0	0
7/24/2024 13:09	66504	SMAN_T2	2	1	-1	0.15	0.4	0.25	1.01	0.99	0	0	0	0	0	0
7/24/2024 13:09	47403	PENS_T1	2	1	-1	0.25	0.6	0.35	0	0	0	0	0	0	0	0
7/24/2024 13:09	14603	SWHI_T1	0	0	0	0	0	0	-2.19	-2.15	4	4	0	2400	2400	0
7/24/2024 13:09	66505	SMAN_T2	6	27	21	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
7/24/2024 13:09	14601	SWHI_T1	0	0	0	0	0	0	-0.78	-0.75	0	0	0	0	0	0
7/24/2024 13:10	14602	SWHI_T1	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
7/24/2024 13:10	55002	NEWP_T1	1	1	0	0.8	1.5	0.7	0	0	0	0	0	0	0	0
7/24/2024 13:10	16503	STRO_T2	0	0	0	0	0	0	0.19	0.13	1	1	0	1200	1200	0
7/24/2024 13:10	66702	STRA_T1	0	0	0	0	0	0	0.13	0.21	2	2	0	1500	1500	0
7/24/2024 13:10	14603	SWHI_T1	0	0	0	0	0	0	-1.09	-1.08	2	2	0	1200	1200	0
7/24/2024 13:10	14601	SWHI_T1	0	0	0	0	0	0	-0.78	-0.75	0	0	0	0	0	0
7/24/2024 13:10	14605	SWHI_T1	1	1	0	0.2	0.2	0	2.11	2.07	1	1	0	1200	1200	0
7/24/2024 13:10	66703	STRA_T1	0	0	0	0	0	0	-0.17	-0.09	0	0	0	0	0	0
7/24/2024 13:10	55001	NEWP_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
7/24/2024 13:11	14604	SWHI_T1	0	0	0	0	0	0	83.96	83.96	2	2	0	1800	1800	0
7/24/2024 13:11	14605	SWHI_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/24/2024 13:13	14603	SWHI_T1	0	0	0	0	0	0	-1.09	-1.08	2	2	0	1200	1200	0
7/24/2024 13:13	14605	SWHI_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/24/2024 13:14	42302	MOWR_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
7/24/2024 13:15	42302	MOWR_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
7/24/2024 13:16	40101	HUNT_T2	83	79	-4	0.49	0.34	-0.15	0	-0.06	0	0	0	0	0	0
7/24/2024 13:17	50502	MECH_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/24/2024 13:17	15603	NSTR_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
7/24/2024 13:17	15601	NSTR_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/24/2024 13:17	50506	MECH_T1	0	0	0	0	0	0	0.79	0.78	1	1	0	900	900	0
7/24/2024 13:18	50506	MECH_T1	0	0	0	0	0	0	0.79	0.78	1	1	0	900	900	0
7/24/2024 13:18	50502	MECH_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/24/2024 13:18	40101	HUNT_T2	83	79	-4	0.49	0.34	-0.15	0	-0.06	0	0	0	0	0	0
7/24/2024 13:20	42902	MIDD_T2	0	0	0	0	0	0	0.75	0.65	1	1	0	1200	1200	0
7/24/2024 13:20	50506	MECH_T1	0	0	0	0	0	0	0.79	0.78	1	1	0	900	900	0
7/24/2024 13:20	42902	MIDD_T2	1	2	1	0.9	2.4	1.5	0	0	0	0	0	0	0	0
7/24/2024 13:20	50502	MECH_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/24/2024 13:20	42901	MIDD_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 13:21	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 13:23	29402	BELT_T1	1	1	0	8.8	8.8	0	0	0	0	0	0	0	0	0
7/24/2024 13:23	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 13:24	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 13:24	29402	BELT_T1	1	1	0	8.8	8.8	0	0	0	0	0	0	0	0	0
7/24/2024 13:25	59101	WALK_T2	2	5	3	2.05	1.05	-1	1.29	0.55	0	2	2	0	1200	1200
7/24/2024 13:26	59101	WALK_T2	2	5	3	2.05	1.05	-1	1.29	0.55	0	2	2	0	1200	1200
7/24/2024 13:26	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 13:29	44802	EDAN_T2	0	0	0	0	0	0	-0.08	-0.11	0	0	0	0	0	0
7/24/2024 13:29	44801	EDAN_T2	6	5	-1	0.85	0.64	-0.21	0	0	0	0	0	0	0	0
7/24/2024 13:31	40101	HUNT_T2	76	57	-19	0.47	0.29	-0.18	-0.06	-0.35	0	0	0	0	0	0
7/24/2024 13:32	52402	GRPA_T2	1	3	2	1.2	1	-0.2	0	0	0	0	0	0	0	0
7/24/2024 13:32	52401	GRPA_T2	4	4	0	0.43	0.6	0.17	0	0	0	0	0	0	0	0
7/24/2024 13:32	20601	GRWO_T2	3	12	9	0.93	0.7	-0.23	0	0	0	0	0	0	0	0
7/24/2024 13:32	52403	GRPA_T2	20	18	-2	0.58	0.74	0.16	0.19	0.21	0	0	0	0	0	0
7/24/2024 13:32	20603	GRWO_T2	0	0	0	0	0	0	-1.66	-0.3	2	1	-1	2100	900	-1200
7/24/2024 13:33	40101	HUNT_T2	76	57	-19	0.47	0.29	-0.18	-0.06	-0.35	0	0	0	0	0	0
7/24/2024 13:35	51603	DUKE_T1	0	0	0	0	0	0	0	0.41	0	0	0	0	0	0
7/24/2024 13:35	47403	PENS_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/24/2024 13:35	47401	PENS_T1	4	5	1	0.5	0.6	0.1	0.73	0.55	0	0	0	0	0	0
7/24/2024 13:35	64101	REFR_T1	3	4	1	0.33	0.13	-0.2	-0.06	-0.04	0	0	0	0	0	0
7/24/2024 13:36	53802	MBRG_T2	0	0	0	0	0	0	0.43	0.48	0	0	0	0	0	0
7/24/2024 13:38	61103	BERK_T5	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/24/2024 13:39	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 13:39	29402	BELT_T1	1	1	0	8.6	9	0.4	0	0	0	0	0	0	0	0
7/24/2024 13:43	56803	BENV_T1	4	5	1	1.23	0.78	-0.45	0	0	0	0	0	0	0	0
7/24/2024 13:43	56801	BENV_T1	0	3	3	0	6.4	6.4	-0.25	-0.23	1	1	0	600	600	0
7/24/2024 13:43	43301	WATS_T2	0	0	0	0	0	0	-0.2	-0.18	1	1	0	900	900	0
7/24/2024 13:43	43304	WATS_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 13:44	44801	EDAN_T2	5	2	-3	0.66	0.75	0.09	0	0	0	0	0	0	0	0
7/24/2024 13:44	44802	EDAN_T2	0	0	0	0	0	0	-0.11	-0.14	0	0	0	0	0	0
7/24/2024 13:44	56801	BENV_T1	0	3	3	0	6.4	6.4	-0.25	-0.23	1	1	0	600	600	0
7/24/2024 13:44	53902	HALI_T2	1	2	1	4	1.95	-2.05	0	0	0	0	0	0	0	0
7/24/2024 13:44	41602	CLEV_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/24/2024 13:44	56803	BENV_T1	4	5	1	1.23	0.78	-0.45	0	0	0	0	0	0	0	0
7/24/2024 13:44	53903	HALI_T2	2	2	0	0.35	0.45	0.1	0.01	0.01	0	0	0	0	0	0
7/24/2024 13:44	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/24/2024 13:45	45801	HEGI_T1	0	0	0	0	0	0	-0.07	-0.06	1	1	0	900	900	0
7/24/2024 13:45	53902	HALI_T2	1	2	1	3.8	1.75	-2.05	0	0	0	0	0	0	0	0
7/24/2024 13:45	53903	HALI_T2	2	0	-2	0.45	0	-0.45	0.02	0.02	0	0	0	0	0	0
7/24/2024 13:45	56803	BENV_T1	4	6	2	0.78	0.94	0.16	0	0	0	0	0	0	0	0
7/24/2024 13:45	56801	BENV_T1	0	1	1	0	0.3	0.3	-0.25	-0.23	1	1	0	600	600	0
7/24/2024 13:46	63202	MGTN_T2	0	0	0	0	0	0	-0.61	-0.36	1	1	0	900	900	0
7/24/2024 13:49	42901	MIDD_T2	2	2	0	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
7/24/2024 13:49	42902	MIDD_T2	2	4	2	1.35	0.9	-0.45	0.03	0.03	1	1	0	600	600	0
7/24/2024 13:49	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 13:50	42901	MIDD_T2	2	2	0	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
7/24/2024 13:50	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 13:50	42902	MIDD_T2	2	4	2	1.35	0.9	-0.45	0.03	0.03	1	1	0	600	600	0
7/24/2024 13:53	42902	MIDD_T2	2	4	2	1.35	0.9	-0.45	0.03	-0.19	1	1	0	600	600	0
7/24/2024 13:53	42901	MIDD_T2	2	2	0	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
7/24/2024 13:53	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 13:53	59101	WALK_T2	2	3	1	1.05	0.7	-0.35	0.67	0.64	2	2	0	1200	1200	0
7/24/2024 13:57	44801	EDAN_T2	2	4	2	0.8	0.63	-0.17	-1.16	-1.15	0	0	0	0	0	0
7/24/2024 13:58	46803	HEPB_T2	0	0	0	0	0	0	0.72	0.76	0	0	0	0	0	0
7/24/2024 13:58	46801	HEPB_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
7/24/2024 13:59	64203	KINZ_T1	2	5	3	3.1	2.85	-0.25	0	0	0	0	0	0	0	0
7/24/2024 13:59	64201	KINZ_T1	0	0	0	0	0	0	-1.14	-1.03	5	5	0	3300	3300	0
7/24/2024 13:59	64202	KINZ_T1	1	3	2	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
7/24/2024 13:59	64204	KINZ_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
7/24/2024 14:00	45802	HEGI_T2	2	33	31	0.35	0.44	0.09	0.33	0.53	2	2	0	1200	1200	0
7/24/2024 14:04	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 14:08	67201	TEHI_T1	14	13	-1	0.49	0.37	-0.12	0	0	0	0	0	0	0	0
7/24/2024 14:08	67203	TEHI_T1	22	13	-9	0.65	1.16	0.51	2.93	2.95	3	3	0	2100	2100	0
7/24/2024 14:09	41902	REED_T1	10	19	9	0.34	0.52	0.18	0.73	0.74	1	1	0	900	900	0
7/24/2024 14:10	55101	WERT_T1	5	16	11	0.48	0	-0.48	-1.45	-1.65	4	4	0	3300	3300	0
7/24/2024 14:11	55101	WERT_T1	5	16	11	0.48	0	-0.48	-5.79	-6.62	16	16	0	13200	13200	0
7/24/2024 14:11	13101	NHAM_T1	0	1	1	0	0	0	-1.85	-1.68	4	4	0	4200	4200	0
7/24/2024 14:12	10705	CATA_T2	0	0	0	0	0	0	-0.11	-0.1	1	1	0	900	900	0
7/24/2024 14:15	45802	HEGI_T2	18	35	17	0.42	0.43	0.01	0.53	0.54	2	2	0	1200	1200	0
7/24/2024 14:19	40602	PIGR_T1	1	1	0	1.5	1.7	0.2	-0.87	-0.71	1	1	0	600	600	0
7/24/2024 14:19	40603	PIGR_T1	0	15	15	0	0.3	0.3	0	0	0	0	0	0	0	0
7/24/2024 14:19	55408	SHER_T2	1	1	0	1.2	1.3	0.1	-0.94	-0.94	1	1	0	1200	1200	0
7/24/2024 14:27	11405	FARM_T1	3	2	-1	0.67	0	-0.67	0	0	0	0	0	0	0	0
7/24/2024 14:27	11406	FARM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 14:27	11403	FARM_T1	0	0	0	0	0	0	0.43	0.42	1	1	0	600	600	0
7/24/2024 14:27	11402	FARM_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
7/24/2024 14:36	57401	SPAN_T1	2	3	1	0.25	0	-0.25	-0.36	-0.31	1	1	0	600	600	0
7/24/2024 14:42	11101	EGYP_T1	1	4	3	1	0.8	-0.2	0	0	0	0	0	0	0	0
7/24/2024 14:42	11104	EGYP_T1	5	0	-5	0.66	1.1	0.44	0.9	0.91	0	0	0	0	0	0
7/24/2024 14:42	11102	EGYP_T1	2	3	1	0.85	1.1	0.25	0	0	0	0	0	0	0	0
7/24/2024 14:47	43304	WATS_T2	3	2	-1	0.53	1.35	0.82	0.1	-0.46	0	1	1	0	600	600
7/24/2024 14:49	47802	MOCA_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
7/24/2024 14:52	47401	PENS_T1	1	3	2	1.3	0.5	-0.8	0.62	0.81	0	0	0	0	0	0
7/24/2024 14:52	47403	PENS_T1	3	2	-1	0.37	1	0.63	0	0	0	0	0	0	0	0
7/24/2024 14:53	47403	PENS_T1	3	2	-1	0.37	1	0.63	0	0	0	0	0	0	0	0
7/24/2024 14:53	47401	PENS_T1	1	3	2	1.3	0.5	-0.8	0.62	0.81	0	0	0	0	0	0
7/24/2024 14:54	61102	BERK_T5	0	0	0	0	0	0	1.5	1.47	2	2	0	600	600	0
7/24/2024 14:54	40201	BEGA_T2	8	2	-6	0.68	0.2	-0.48	0	0	0	0	0	0	0	0
7/24/2024 14:55	43108	SMIL_T2	1	1	0	1.1	0	-1.1	-0.62	-0.64	1	1	0	1200	1200	0
7/24/2024 14:55	64101	REFR_T1	10	6	-4	0.71	0.93	0.22	0.05	0.03	0	0	0	0	0	0
7/24/2024 14:55	44801	EDAN_T2	3	3	0	0.87	0.7	-0.17	-1.11	-1.1	0	0	0	0	0	0
7/24/2024 14:55	10805	CHHI_T2	405	323	-82	0.96	0.98	0.02	0.11	-0.52	2	2	0	1200	1200	0
7/24/2024 14:56	45501	DERR_T2	47	83	36	0.63	0.51	-0.12	3.08	3.09	4	4	0	3600	3600	0
7/24/2024 14:56	61102	BERK_T5	0	0	0	0	0	0	1.5	1.47	2	2	0	600	600	0
7/24/2024 14:56	10801	CHHI_T1	7	28	21	0.29	0.76	0.47	-1.22	-1.19	3	3	0	2100	2100	0
7/24/2024 14:56	10805	CHHI_T2	405	323	-82	0.96	0.98	0.02	0.06	-0.26	1	1	0	600	600	0
7/24/2024 14:56	40201	BEGA_T2	8	2	-6	0.68	0.2	-0.48	0	0	0	0	0	0	0	0
7/24/2024 14:56	45502	DERR_T2	43	97	54	0.49	0.41	-0.08	0	0	0	0	0	0	0	0
7/24/2024 14:57	53501	EVIL_T2	2	4	2	0.55	0.7	0.15	-0.73	-0.88	5	5	0	2900	2900	0
7/24/2024 14:57	24102	EHAZ_T1	1	1	0	1.1	1.1	0	-0.26	-0.28	0	0	0	0	0	0
7/24/2024 14:57	24101	EHAZ_T1	33	31	-2	1.05	0.33	-0.72	0	0	0	0	0	0	0	0
7/24/2024 14:57	40201	BEGA_T2	8	2	-6	0.68	0.2	-0.48	0	0	0	0	0	0	0	0
7/24/2024 14:57	53502	EVIL_T2	5	1	-4	0.28	0	-0.28	0	0	0	0	0	0	0	0
7/24/2024 14:57	24104	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 14:57	24105	EHAZ_T1	4	4	0	6.83	6.8	-0.03	0	0	0	0	0	0	0	0
7/24/2024 14:57	10801	CHHI_T1	7	28	21	0.29	0.76	0.47	-1.22	-1.19	3	3	0	2100	2100	0
7/24/2024 14:58	45501	DERR_T2	47	83	36	0.63	0.51	-0.12	4.62	4.64	6	6	0	5400	5400	0
7/24/2024 14:58	10801	CHHI_T1	7	28	21	0.29	0.76	0.47	-1.22	-1.19	3	3	0	2100	2100	0
7/24/2024 14:58	61102	BERK_T5	0	0	0	0	0	0	0.75	0.73	1	1	0	300	300	0
7/24/2024 14:58	53501	EVIL_T2	2	4	2	0.55	0.7	0.15	-1.47	-1.77	10	10	0	5800	5800	0
7/24/2024 14:58	29402	BELT_T1	20	219	199	0.24	1.11	0.87	0	0	0	0	0	0	0	0
7/24/2024 14:58	45502	DERR_T2	43	97	54	0.49	0.41	-0.08	0.14	0.14	2	2	0	600	600	0
7/24/2024 14:58	53502	EVIL_T2	5	1	-4	0.28	0	-0.28	0	0	0	0	0	0	0	0
7/24/2024 15:00	53502	EVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/24/2024 15:00	53501	EVIL_T2	4	1	-3	1.35	1.1	-0.25	-1.47	-1.77	10	10	0	5800	5800	0
7/24/2024 15:00	10805	CHHI_T2	316	358	42	0.98	1.05	0.07	0.06	-0.26	1	1	0	600	600	0
7/24/2024 15:00	45502	DERR_T2	86	84	-2	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
7/24/2024 15:00	45501	DERR_T2	82	79	-3	0.61	0.54	-0.07	3.08	3.09	4	4	0	3600	3600	0
7/24/2024 15:01	45502	DERR_T2	86	84	-2	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
7/24/2024 15:01	45501	DERR_T2	82	79	-3	0.61	0.54	-0.07	1.54	1.55	2	2	0	1800	1800	0
7/24/2024 15:01	64704	LITI_T1	0	0	0	0	0	0	0.42	0.39	1	1	0	600	600	0
7/24/2024 15:01	64701	LITI_T1	9	10	1	0.68	0.57	-0.11	0	0	0	0	0	0	0	0
7/24/2024 15:05	64101	REFR_T1	3	7	4	0.93	0	-0.93	0.05	0.03	0	0	0	0	0	0
7/24/2024 15:08	43103	SMIL_T2	0	0	0	0	0	0	-4.35	-4.41	0	0	0	0	0	0
7/24/2024 15:08	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/24/2024 15:08	65903	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 15:08	65901	SAKR_T2	1	1	0	6.5	6.5	0	-0.21	-0.13	2	2	0	1500	1500	0
7/24/2024 15:09	40603	PIGR_T1	19	20	1	0.35	0.48	0.13	0.76	0.77	0	0	0	0	0	0
7/24/2024 15:09	40602	PIGR_T1	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
7/24/2024 15:11	46206	DANV_T2	94	92	-2	1.08	0.88	-0.2	0	0	0	0	0	0	0	0
7/24/2024 15:11	55101	WERT_T1	8	9	1	0.63	0.36	-0.27	-1.66	-1.68	4	4	0	3300	3300	0
7/24/2024 15:11	46204	DANV_T2	29	29	0	0.32	0.29	-0.03	0	0	0	0	0	0	0	0
7/24/2024 15:11	55103	WERT_T1	0	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0
7/24/2024 15:11	46203	DANV_T2	0	1	1	0	0	0	0.14	0.13	0	0	0	0	0	0
7/24/2024 15:13	61102	BERK_T5	0	0	0	0	0	0	0.73	0.82	1	1	0	300	300	0
7/24/2024 15:14	67602	WARW_T2	4	4	0	0.38	0.15	-0.23	1.29	1.29	2	2	0	1500	1500	0
7/24/2024 15:16	67602	WARW_T2	4	2	-2	0.23	0.15	-0.08	1.29	1.29	2	2	0	1500	1500	0
7/24/2024 15:21	16605	PONO_T1	0	0	0	0	0	0	-0.82	-0.83	2	2	0	2400	2400	0
7/24/2024 15:23	14404	SSLA_T1	1	1	0	2.9	2.8	-0.1	0	0	0	0	0	0	0	0
7/24/2024 15:23	14403	SSLA_T1	3	6	3	0.43	0.85	0.42	1.71	1.65	0	0	0	0	0	0
7/24/2024 15:24	45902	AUBU_T1	0	1	1	0	0	0	-0.25	-0.24	1	1	0	600	600	0
7/24/2024 15:26	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 15:26	45502	DERR_T2	76	58	-18	0.42	0.45	0.03	0	0	0	0	0	0	0	0
7/24/2024 15:26	45501	DERR_T2	78	72	-6	0.59	0.63	0.04	1.46	1.45	2	2	0	1800	1800	0
7/24/2024 15:26	11903	ETEX_T1	0	0	0	0	0	0	1.25	1.33	0	0	0	0	0	0
7/24/2024 15:26	40502	CRES_T2	8	7	-1	0.43	0.37	-0.06	-0.06	-0.06	0	0	0	0	0	0
7/24/2024 15:27	40502	CRES_T2	8	7	-1	0.43	0.37	-0.06	-0.06	-0.06	0	0	0	0	0	0
7/24/2024 15:27	64602	LEOL_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
7/24/2024 15:27	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 15:28	29401	BELT_T1	0	25	25	0	0.5	0.5	0	0	0	0	0	0	0	0
7/24/2024 15:28	29402	BELT_T1	217	198	-19	1.11	0.96	-0.15	0	0	0	0	0	0	0	0
7/24/2024 15:28	67605	WARW_T1	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
7/24/2024 15:29	45502	DERR_T2	76	58	-18	0.42	0.45	0.03	0	0	0	0	0	0	0	0
7/24/2024 15:29	45501	DERR_T2	78	72	-6	0.59	0.63	0.04	2.91	2.9	4	4	0	3600	3600	0
7/24/2024 15:30	25402	LAHA_T2	0	0	0	0	0	0	-0.42	-0.18	0	0	0	0	0	0
7/24/2024 15:33	45802	HEGI_T2	35	30	-5	0.73	0.57	-0.16	0.61	0.59	2	2	0	1200	1200	0
7/24/2024 15:37	40602	PIGR_T1	1	2	1	1.5	1.7	0.2	-0.72	-0.74	1	1	0	600	600	0
7/24/2024 15:37	40603	PIGR_T1	19	32	13	0.37	0.55	0.18	0	0	0	0	0	0	0	0
7/24/2024 15:40	42503	ALTA_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
7/24/2024 15:49	24102	EHAZ_T1	1	1	0	2.2	1.2	-1	0.46	0.46	0	0	0	0	0	0
7/24/2024 15:49	24101	EHAZ_T1	9	0	-9	0.37	0	-0.37	0	0	0	0	0	0	0	0
7/24/2024 15:49	24105	EHAZ_T1	4	4	0	6.88	6.93	0.05	0	0	0	0	0	0	0	0
7/24/2024 15:55	10801	CHHI_T1	46	43	-3	0.57	0.55	-0.02	-1.1	-1.12	3	3	0	2100	2100	0
7/24/2024 15:56	12602	MACA_T1	4	0	-4	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/24/2024 15:56	12601	MACA_T1	4	1	-3	0.68	0	-0.68	0	0	0	0	0	0	0	0
7/24/2024 15:56	12606	MACA_T1	37	36	-1	0.89	0.97	0.08	0	0	0	0	0	0	0	0
7/24/2024 15:56	53601	DALM_T2	1	1	0	0.8	0.8	0	-1.28	-1.04	2	2	0	1500	1500	0
7/24/2024 15:56	12605	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 16:09	14201	EALL_T1	0	0	0	0	0	0	-0.44	-0.32	0	0	0	0	0	0
7/24/2024 16:14	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 16:14	40502	CRES_T2	7	16	9	0.54	0.71	0.17	-0.05	-0.05	0	0	0	0	0	0
7/24/2024 16:16	16902	MECK_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
7/24/2024 16:25	40201	BEGA_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/24/2024 16:26	54201	PENN_T1	22	68	46	0.34	0.4	0.06	0	0	0	0	0	0	0	0
7/24/2024 16:26	54203	PENN_T1	17	18	1	0.35	0.63	0.28	0.44	0.37	1	1	0	600	600	0
7/24/2024 16:26	54205	PENN_T1	0	18	18	0	0.1	0.1	0	0	0	0	0	0	0	0
7/24/2024 16:32	62604	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 16:32	62601	ENGL_T1	0	0	0	0	0	0	-1	-1.14	0	0	0	0	0	0
7/24/2024 16:32	64302	LINC_T2	16	23	7	0.73	0.52	-0.21	1.95	1.9	0	0	0	0	0	0
7/24/2024 16:42	45501	DERR_T2	8	6	-2	0.39	0.45	0.06	1.14	1.06	2	2	0	1800	1800	0
7/24/2024 16:42	45502	DERR_T2	4	6	2	0.25	0.27	0.02	0	0	0	0	0	0	0	0
7/24/2024 16:43	44301	BEAV_T2	0	1	1	0	0	0	0.21	0.17	1	1	0	600	600	0
7/24/2024 16:48	51004	NHAR_T1	1	1	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
7/24/2024 16:48	51003	NHAR_T1	0	0	0	0	0	0	-1.94	-1.97	1	1	0	1200	1200	0
7/24/2024 16:48	64201	KINZ_T1	1	0	-1	2.3	0	-2.3	-0.69	-0.73	4	4	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/24/2024 16:48	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
7/24/2024 16:48	64203	KINZ_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/24/2024 16:49	46506	LOHA_T1	0	0	0	0	0	0	-1.63	-1.63	2	2	0	2100	2100	0
7/24/2024 16:49	46501	LOHA_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 16:50	65603	QVIL_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
7/24/2024 16:53	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.3	1	1	0	600	600	0
7/24/2024 16:53	47401	PENS_T1	2	2	0	0.15	1.2	1.05	0.88	0.89	0	0	0	0	0	0
7/24/2024 17:04	64203	KINZ_T1	1	1	0	0.5	0.2	-0.3	0.67	0.33	1	1	0	600	600	0
7/24/2024 17:04	64204	KINZ_T1	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
7/24/2024 17:04	64201	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/24/2024 17:06	50505	MECH_T1	0	0	0	0	0	0	-1.52	-1.53	0	0	0	0	0	0
7/24/2024 17:06	50501	MECH_T1	4	0	-4	0.73	0	-0.73	0	0	0	0	0	0	0	0
7/24/2024 17:06	50502	MECH_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
7/24/2024 17:09	24901	WHHA_T1	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
7/24/2024 17:09	24902	WHHA_T1	10	34	24	0.45	0.8	0.35	0	0	0	0	0	0	0	0
7/24/2024 17:11	61701	ELIZ_T1	1	1	0	2.7	2.6	-0.1	1.36	1.32	0	0	0	0	0	0
7/24/2024 17:11	61703	ELIZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/24/2024 17:13	63305	GREE_T1	4	8	4	0.15	0.2	0.05	-1.6	-1.65	1	1	0	900	900	0
7/24/2024 17:13	63304	GREE_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/24/2024 17:15	61701	ELIZ_T1	1	1	0	2.6	2.6	0	1.36	1.32	0	0	0	0	0	0
7/24/2024 17:16	61701	ELIZ_T1	1	1	0	2.6	2.6	0	1.36	1.32	0	0	0	0	0	0
7/24/2024 17:17	63305	GREE_T1	8	8	0	0.18	0.21	0.03	-1.6	-1.65	1	1	0	900	900	0
7/24/2024 17:17	63304	GREE_T1	4	4	0	0.1	0.13	0.03	0	0	0	0	0	0	0	0
7/24/2024 17:19	13202	PALM_T2	0	0	0	0	0	0	-1.98	-2.01	4	4	0	3600	3600	0
7/24/2024 17:20	13202	PALM_T2	0	0	0	0	0	0	-1.98	-2.01	4	4	0	3600	3600	0
7/24/2024 17:22	42201	SHEN_T2	0	0	0	0	0	0	0.99	0.98	2	2	0	1200	1200	0
7/24/2024 17:25	46203	DANV_T2	6	6	0	0.55	0.42	-0.13	0	0	0	0	0	0	0	0
7/24/2024 17:25	46204	DANV_T2	5	8	3	0.28	0.4	0.12	0	0	0	0	0	0	0	0
7/24/2024 17:25	46206	DANV_T2	70	96	26	0.84	0.76	-0.08	2.53	2.55	2	2	0	2100	2100	0
7/24/2024 17:27	67503	WEWI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 17:27	46206	DANV_T2	70	96	26	0.84	0.76	-0.08	2.53	2.55	2	2	0	2100	2100	0
7/24/2024 17:27	46203	DANV_T2	6	6	0	0.55	0.42	-0.13	0	0	0	0	0	0	0	0
7/24/2024 17:27	67502	WEWI_T2	0	0	0	0	0	0	-0.88	-0.91	1	1	0	900	900	0
7/24/2024 17:27	46204	DANV_T2	5	8	3	0.28	0.4	0.12	0	0	0	0	0	0	0	0
7/24/2024 17:29	52401	GRPA_T2	34	58	24	0.52	0.38	-0.14	-0.12	-0.11	0	0	0	0	0	0
7/24/2024 17:29	52403	GRPA_T2	75	107	32	1.24	1.64	0.4	0	0	0	0	0	0	0	0
7/24/2024 17:29	52402	GRPA_T2	4	3	-1	0.93	0.8	-0.13	0	0	0	0	0	0	0	0
7/24/2024 17:33	46101	MACI_T2	8	4	-4	0.11	0.13	0.02	-0.35	-0.37	1	1	0	1200	1200	0
7/24/2024 17:40	44301	BEAV_T2	4	3	-1	0.3	0.8	0.5	0.19	0.18	1	1	0	600	600	0
7/24/2024 17:42	44301	BEAV_T2	4	3	-1	0.3	0.8	0.5	0.19	0.18	1	1	0	600	600	0
7/24/2024 17:52	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
7/24/2024 17:58	54203	PENN_T1	18	36	18	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
7/24/2024 17:58	54201	PENN_T1	42	75	33	0.37	0.46	0.09	-1.51	-1.53	0	0	0	0	0	0
7/24/2024 17:58	54205	PENN_T1	0	57	57	0	0.22	0.22	0	0	0	0	0	0	0	0
7/24/2024 18:05	52401	GRPA_T2	11	6	-5	0.38	0.6	0.22	0	0	0	0	0	0	0	0
7/24/2024 18:05	52402	GRPA_T2	7	3	-4	0.84	0.5	-0.34	0	0	0	0	0	0	0	0
7/24/2024 18:05	52403	GRPA_T2	89	83	-6	1.24	0.8	-0.44	0.1	0.05	0	0	0	0	0	0
7/24/2024 18:12	67505	WEWI_T1	0	0	0	0	0	0	0.69	0.67	1	1	0	900	900	0
7/24/2024 18:12	15001	BLMO_T1	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/24/2024 18:14	11205	ELHE_T1	0	0	0	0	0	0	-1.24	-1.27	1	1	0	1200	1200	0
7/24/2024 18:14	11203	ELHE_T1	8	0	-8	0.46	0	-0.46	0	0	0	0	0	0	0	0
7/24/2024 18:17	12006	HATF_T1	0	0	0	0	0	0	0.12	0	2	2	0	2400	2400	0
7/24/2024 18:17	48902	FOSP_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
7/24/2024 18:17	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 18:22	13202	PALM_T2	0	0	0	0	0	0	-2.1	-2.12	4	4	0	3600	3600	0
7/24/2024 18:22	65601	QVIL_T2	0	1	1	0	0.1	0.1	-0.07	-0.17	1	1	0	900	900	0
7/24/2024 18:23	67103	SPRI_T1	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
7/24/2024 18:26	41602	CLEV_T1	31	29	-2	0.42	0.24	-0.18	0	0	1	1	0	600	600	0
7/24/2024 18:38	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/24/2024 18:38	65603	QVIL_T2	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
7/24/2024 18:38	44902	SCOT_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
7/24/2024 18:38	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 18:39	60301	TWVA_T2	0	0	0	0	0	0	-2.37	-2.39	2	2	0	1800	1800	0
7/24/2024 18:40	44905	SCOT_T1	2	5	3	1.9	1.75	-0.15	0	0	0	0	0	0	0	0
7/24/2024 18:42	62102	ELAN_T1	0	0	0	0	0	0	1.55	1.57	0	0	0	0	0	0
7/24/2024 18:45	10705	CATA_T2	0	0	0	0	0	0	-1.28	-1.3	1	1	0	900	900	0
7/24/2024 18:49	44901	SCOT_T2	0	0	0	0	0	0	0.49	0.59	0	0	0	0	0	0
7/24/2024 18:51	61701	ELIZ_T1	1	1	0	3.1	3.1	0	1.33	1.32	0	0	0	0	0	0
7/24/2024 18:51	44902	SCOT_T2	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
7/24/2024 18:56	58003	WCAR_T1	6	22	16	0.33	0.23	-0.1	0.56	0.55	1	1	0	600	600	0
7/24/2024 18:56	58001	WCAR_T1	4	4	0	0.58	0.65	0.07	0	0	0	0	0	0	0	0
7/24/2024 18:59	22903	HARW_T1	1	2	1	0.1	0	-0.1	-0.78	-0.75	0	0	0	0	0	0
7/24/2024 18:59	22901	HARW_T1	5	1	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/24/2024 19:04	65601	QVIL_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/24/2024 19:04	65603	QVIL_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
7/24/2024 19:04	65604	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/24/2024 19:09	15202	SFAR_T1	0	0	0	0	0	0	-0.23	-0.24	1	1	0	1200	1200	0
7/24/2024 19:10	41902	REED_T1	77	76	-1	0.55	0.56	0.01	0.72	0.71	1	1	0	900	900	0
7/24/2024 19:10	41901	REED_T1	4	7	3	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
7/24/2024 19:11	22002	BOHE_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
7/24/2024 19:25	27605	PIRI_T2	29	38	9	0.56	0.49	-0.07	0.29	0.28	1	1	0	900	900	0
7/24/2024 19:25	27603	PIRI_T2	1	1	0	2.1	1.5	-0.6	0	0	0	0	0	0	0	0
7/24/2024 19:41	52004	LING_T2	2	2	0	5.05	5.15	0.1	0	0	0	0	0	0	0	0
7/24/2024 19:41	52002	LING_T2	0	0	0	0	0	0	0.17	0.14	1	1	0	900	900	0
7/24/2024 19:43	22002	BOHE_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
7/24/2024 20:20	53903	HALI_T2	2	2	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
7/24/2024 20:20	53901	HALI_T2	0	0	0	0	0	0	-1.91	-1.94	0	0	0	0	0	0
7/24/2024 20:20	53902	HALI_T2	1	1	0	4.7	5	0.3	0	0	0	0	0	0	0	0
7/24/2024 20:21	53903	HALI_T2	2	2	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
7/24/2024 20:21	53902	HALI_T2	1	1	0	4.7	5	0.3	0	0	0	0	0	0	0	0
7/24/2024 20:21	53901	HALI_T2	0	0	0	0	0	0	-0.95	-0.97	0	0	0	0	0	0
7/24/2024 20:23	53903	HALI_T2	2	2	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
7/24/2024 20:23	53902	HALI_T2	1	1	0	4.7	5	0.3	0	0	0	0	0	0	0	0
7/24/2024 20:23	53901	HALI_T2	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
7/24/2024 20:35	58402	MORO_T1	0	0	0	0	0	0	-0.86	-0.87	4	4	0	2850	2850	0
7/24/2024 20:39	65502	MOJO_T2	0	0	0	0	0	0	-0.95	-0.9	1	1	0	900	900	0
7/24/2024 21:08	56501	ROCK_T2	284	12	-272	0.44	0.22	-0.22	-1.15	-1.2	0	0	0	0	0	0
7/24/2024 21:10	56501	ROCK_T2	284	12	-272	0.44	0.22	-0.22	-1.15	-1.2	0	0	0	0	0	0
7/24/2024 21:18	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/24/2024 21:18	54504	ENOL_T2	0	0	0	0	0	0	-0.67	-0.68	1	1	0	600	600	0
7/24/2024 21:20	65501	MOJO_T1	0	0	0	0	0	0	-0.76	-0.79	1	1	0	900	900	0
7/24/2024 22:05	53901	HALI_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/24/2024 22:05	53903	HALI_T2	2	2	0	1.05	0.45	-0.6	0	0	0	0	0	0	0	0
7/24/2024 22:05	53902	HALI_T2	1	1	0	5.6	4.2	-1.4	-0.59	-0.61	0	0	0	0	0	0
7/24/2024 22:06	67505	WEWI_T1	0	0	0	0	0	0	0.54	0.52	1	1	0	900	900	0
7/24/2024 22:09	52004	LING_T2	2	2	0	5.05	5.35	0.3	0	0	0	0	0	0	0	0
7/24/2024 22:09	43301	WATS_T2	1	1	0	0.4	0.5	0.1	-0.35	0.59	1	0	-1	900	0	-900
7/24/2024 22:09	43304	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/24/2024 22:09	52002	LING_T2	0	0	0	0	0	0	0.69	0.62	0	0	0	0	0	0
7/24/2024 22:12	64202	KINZ_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
7/24/2024 22:12	64201	KINZ_T1	1	1	0	1.3	1.6	0.3	-0.41	-0.37	3	3	0	1500	1500	0
7/24/2024 22:12	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
7/24/2024 22:13	46801	HEPB_T2	2	3	1	1.15	0.83	-0.32	0	0	0	0	0	0	0	0
7/24/2024 22:13	65603	QVIL_T2	9	2	-7	0.17	0.1	-0.07	0.38	0.37	0	0	0	0	0	0
7/24/2024 22:13	65604	QVIL_T2	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
7/24/2024 22:13	65601	QVIL_T2	34	19	-15	0.19	0.16	-0.03	0	0	0	0	0	0	0	0
7/24/2024 22:13	46803	HEPB_T2	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
7/24/2024 22:14	43105	SMIL_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
7/24/2024 22:14	43102	SMIL_T2	3	4	1	0.17	0.6	0.43	0	0	0	0	0	0	0	0
7/24/2024 22:14	43103	SMIL_T2	0	3	3	0	0.23	0.23	-1.12	-1.16	0	0	0	0	0	0
7/24/2024 22:15	46506	LOHA_T1	9	163	154	0.16	0.29	0.13	-1.86	-1.88	2	2	0	2100	2100	0
7/24/2024 22:15	46504	LOHA_T1	2	2	0	0.35	0.9	0.55	0	0	0	0	0	0	0	0
7/24/2024 22:15	46203	DANV_T2	0	0	0	0	0	0	-0.27	-0.35	0	0	0	0	0	0
7/24/2024 22:15	16402	MOPO_T1	3	0	-3	0.2	0	-0.2	0.1	0.07	0	0	0	0	0	0
7/24/2024 22:15	44802	EDAN_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
7/24/2024 22:15	46206	DANV_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/24/2024 22:15	44801	EDAN_T2	51	52	1	0.29	0.3	0.01	0	0	0	0	0	0	0	0
7/24/2024 22:16	42302	MOWR_T2	0	0	0	0	0	0	0.73	0.69	0	0	0	0	0	0
7/24/2024 22:17	61701	ELIZ_T1	1	1	0	4.1	4	-0.1	0.93	0.81	0	0	0	0	0	0
7/24/2024 22:17	17002	MIRO_T2	1	1	0	0.5	0.8	0.3	0.62	0.61	0	0	0	0	0	0
7/24/2024 22:18	65206	PRIN_T4	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:18	65207	PRIN_T4	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/24/2024 22:18	27604	PIRI_T1	0	0	0	0	0	0	0.92	0.91	0	0	0	0	0	0
7/24/2024 22:18	13503	MCMI_T2	0	0	0	0	0	0	-0.13	0.2	0	0	0	0	0	0
7/24/2024 22:18	20603	GRWO_T2	58	59	1	0.25	0.26	0.01	-0.42	-0.42	1	1	0	900	900	0
7/24/2024 22:18	15603	NSTR_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
7/24/2024 22:18	24902	WHHA_T1	2	5	3	0.1	0.4	0.3	0.91	0.9	0	0	0	0	0	0
7/24/2024 22:18	15601	NSTR_T2	3	3	0	0.3	0.33	0.03	0	0	0	0	0	0	0	0
7/24/2024 22:18	16902	MECK_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
7/24/2024 22:18	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/24/2024 22:19	60301	TWVA_T2	0	0	0	0	0	0	-2.66	-2.69	2	2	0	1800	1800	0
7/24/2024 22:19	29402	BELT_T1	1	2	1	8.9	4.75	-4.15	0	0	0	0	0	0	0	0
7/24/2024 22:19	64202	KINZ_T1	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
7/24/2024 22:19	10805	CHHI_T2	15	16	1	1.95	2.01	0.06	-0.64	-0.68	1	1	0	600	600	0
7/24/2024 22:19	64201	KINZ_T1	1	1	0	1.3	1.7	0.4	-0.41	-0.37	3	3	0	1500	1500	0
7/24/2024 22:19	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
7/24/2024 22:19	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
7/24/2024 22:19	15702	TANN_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
7/24/2024 22:20	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/24/2024 22:20	10805	CHHI_T2	15	16	1	1.95	2.01	0.06	-0.64	-0.68	1	1	0	600	600	0
7/24/2024 22:20	44802	EDAN_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
7/24/2024 22:20	23202	HIRU_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
7/24/2024 22:20	44801	EDAN_T2	51	52	1	0.29	0.3	0.01	0	0	0	0	0	0	0	0
7/24/2024 22:21	43108	SMIL_T2	0	0	0	0	0	0	-1.04	-1.06	1	1	0	1200	1200	0
7/24/2024 22:21	43103	SMIL_T2	2	4	2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/24/2024 22:21	11903	ETEX_T1	0	0	0	0	0	0	0.87	0.84	0	0	0	0	0	0
7/24/2024 22:21	65001	NEFF_T2	0	0	0	0	0	0	-0.16	-0.23	1	1	0	1200	1200	0
7/24/2024 22:21	13303	ORVI_T1	0	0	0	0	0	0	-0.02	-0.08	0	0	0	0	0	0
7/24/2024 22:21	44802	EDAN_T2	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
7/24/2024 22:21	43102	SMIL_T2	4	6	2	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/24/2024 22:21	43105	SMIL_T2	2	8	6	0.1	0.19	0.09	0	0	0	0	0	0	0	0
7/24/2024 22:21	45501	DERR_T2	2	0	-2	0.7	0	-0.7	-0.03	0.15	2	2	0	1800	1800	0
7/24/2024 22:21	44801	EDAN_T2	51	52	1	0.29	0.3	0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/24/2024 22:22	11203	ELHE_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/24/2024 22:22	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:22	43801	SWIL_T1	2	2	0	3.35	3.35	0	0	0	0	0	0	0	0	0
7/24/2024 22:22	65802	RTWN_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
7/24/2024 22:22	48902	FOSP_T2	0	0	0	0	0	0	0.4	0.24	0	0	0	0	0	0
7/24/2024 22:22	13503	MCMI_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
7/24/2024 22:22	45501	DERR_T2	2	0	-2	0.7	0	-0.7	-0.07	0.3	4	4	0	3600	3600	0
7/24/2024 22:22	10801	CHHI_T1	0	0	0	0	0	0	-1.55	-1.58	3	3	0	2100	2100	0
7/24/2024 22:22	11205	ELHE_T1	0	0	0	0	0	0	-0.26	-0.21	1	1	0	1200	1200	0
7/24/2024 22:22	43802	SWIL_T1	0	0	0	0	0	0	0.27	0.24	1	1	0	600	600	0
7/24/2024 22:23	64202	KINZ_T1	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
7/24/2024 22:23	20402	ASHF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/24/2024 22:23	43304	WATS_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
7/24/2024 22:23	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
7/24/2024 22:23	15202	SFAR_T1	0	0	0	0	0	0	-0.63	-0.66	1	1	0	1200	1200	0
7/24/2024 22:23	24902	WHHA_T1	2	5	3	0.1	0.4	0.3	0.9	0.89	0	0	0	0	0	0
7/24/2024 22:23	16503	STRO_T2	0	0	0	0	0	0	-0.59	-0.62	1	1	0	1200	1200	0
7/24/2024 22:23	63305	GREE_T1	7	14	7	0.24	0.25	0.01	-1.8	-1.77	1	1	0	900	900	0
7/24/2024 22:23	10705	CATA_T2	0	0	0	0	0	0	-1.61	-1.63	1	1	0	900	900	0
7/24/2024 22:23	67203	TEHI_T1	0	0	0	0	0	0	1.97	2.03	3	3	0	2100	2100	0
7/24/2024 22:23	64201	KINZ_T1	1	1	0	1.3	1.7	0.4	-0.37	-0.52	3	3	0	1500	1500	0
7/24/2024 22:23	20401	ASHF_T2	1	0	-1	0.3	0	-0.3	0.18	0.16	0	0	0	0	0	0
7/24/2024 22:23	16402	MORO_T1	3	0	-3	0.2	0	-0.2	0.07	0.06	0	0	0	0	0	0
7/24/2024 22:23	63202	MGTN_T2	0	0	0	0	0	0	0.05	0.03	1	1	0	900	900	0
7/24/2024 22:23	11804	FRAN_T1	15	15	0	0.49	0.46	-0.03	0.38	-0.68	0	1	1	0	1200	1200
7/24/2024 22:23	43301	WATS_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/24/2024 22:24	46206	DANV_T2	1	1	0	0.8	0.6	-0.2	1.95	1.95	2	2	0	2100	2100	0
7/24/2024 22:24	12803	MICK_T1	0	0	0	0	0	0	1	0.98	0	0	0	0	0	0
7/24/2024 22:24	20402	ASHF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/24/2024 22:24	12801	MICK_T1	0	0	0	0	0	0	-0.75	-0.77	1	1	0	600	600	0
7/24/2024 22:24	24902	WHHA_T1	2	5	3	0.1	0.4	0.3	0.9	0.89	0	0	0	0	0	0
7/24/2024 22:24	22901	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:24	29402	BELT_T1	1	2	1	8.9	4.75	-4.15	0	0	0	0	0	0	0	0
7/24/2024 22:24	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/24/2024 22:24	20403	ASHF_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
7/24/2024 22:24	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:24	65601	QVIL_T2	19	8	-11	0.16	0.13	-0.03	-0.45	-0.48	1	1	0	900	900	0
7/24/2024 22:24	65603	QVIL_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
7/24/2024 22:24	27604	PIRI_T1	0	0	0	0	0	0	0.91	0.89	0	0	0	0	0	0
7/24/2024 22:24	14601	SWHI_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
7/24/2024 22:24	43304	WATS_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
7/24/2024 22:24	43301	WATS_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/24/2024 22:24	65604	QVIL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/24/2024 22:24	13202	PALM_T2	0	0	0	0	0	0	-2.08	-2.43	3	4	1	3000	3600	600
7/24/2024 22:24	11103	EGYP_T1	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
7/24/2024 22:24	45501	DERR_T2	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/24/2024 22:24	13905	SEID_T1	0	0	0	0	0	0	-0.55	-0.57	1	1	0	1200	1200	0
7/24/2024 22:24	22903	HARW_T1	2	1	-1	0.2	0	-0.2	0.36	0.37	0	0	0	0	0	0
7/24/2024 22:24	21206	ECAR_T2	1	1	0	8.2	8.4	0.2	0.45	0.45	0	0	0	0	0	0
7/24/2024 22:24	20401	ASHF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/24/2024 22:24	12006	HATF_T1	0	0	0	0	0	0	0.63	0.65	1	1	0	1200	1200	0
7/24/2024 22:24	13904	SEID_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/24/2024 22:24	40603	PIGR_T1	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
7/24/2024 22:24	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:24	21204	ECAR_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/24/2024 22:24	45502	DERR_T2	0	0	0	0	0	0	-1.05	-1.06	0	0	0	0	0	0
7/24/2024 22:25	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/24/2024 22:25	45902	AUBU_T1	0	0	0	0	0	0	-0.79	-0.78	1	1	0	600	600	0
7/24/2024 22:25	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:25	67505	WEWI_T1	0	0	0	0	0	0	0.52	0.47	1	1	0	900	900	0
7/24/2024 22:25	66702	STRA_T1	0	0	0	0	0	0	-0.4	-0.29	2	2	0	1500	1500	0
7/24/2024 22:25	65802	RTWN_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
7/24/2024 22:25	14601	SWHI_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
7/24/2024 22:25	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:25	61102	BERK_T5	0	0	0	0	0	0	-0.05	-0.08	1	1	0	300	300	0
7/24/2024 22:25	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
7/24/2024 22:25	40302	TAMA_T3	1	2	1	0.5	0.25	-0.25	0.17	0.15	0	0	0	0	0	0
7/24/2024 22:25	29402	BELT_T1	1	2	1	8.9	4.75	-4.15	0	0	0	0	0	0	0	0
7/24/2024 22:26	45501	DERR_T2	2	0	-2	0.7	0	-0.7	-0.03	0.15	2	2	0	1800	1800	0
7/24/2024 22:26	11103	EGYP_T1	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
7/24/2024 22:26	14602	SWHI_T1	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
7/24/2024 22:26	55002	NEWP_T1	2	2	0	0.3	0.25	-0.05	-0.08	-0.08	0	0	0	0	0	0
7/24/2024 22:26	22002	BOHE_T1	0	0	0	0	0	0	0.37	0.49	0	0	0	0	0	0
7/24/2024 22:26	10705	CATA_T2	0	0	0	0	0	0	-1.61	-1.63	1	1	0	900	900	0
7/24/2024 22:26	50502	MECH_T1	1	1	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
7/24/2024 22:26	13202	PALM_T2	0	0	0	0	0	0	-2.08	-2.43	3	4	1	3000	3600	600
7/24/2024 22:26	66703	STRA_T1	0	0	0	0	0	0	0.12	0.08	0	0	0	0	0	0
7/24/2024 22:26	20402	ASHF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/24/2024 22:26	14605	SWHI_T1	0	0	0	0	0	0	1.69	1.6	1	1	0	1200	1200	0
7/24/2024 22:26	11101	EGYP_T1	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
7/24/2024 22:26	42302	MOWR_T2	0	0	0	0	0	0	0.69	0.65	0	0	0	0	0	0
7/24/2024 22:26	47401	PENS_T1	0	0	0	0	0	0	0.23	1.33	0	0	0	0	0	0
7/24/2024 22:26	50505	MECH_T1	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
7/24/2024 22:26	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:26	11104	EGYP_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
7/24/2024 22:26	20401	ASHF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/24/2024 22:26	14601	SWHI_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
7/24/2024 22:26	44301	BEAV_T2	0	0	0	0	0	0	-0.04	-0.89	1	1	0	600	600	0
7/24/2024 22:26	20403	ASHF_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
7/24/2024 22:26	63305	GREE_T1	7	14	7	0.24	0.25	0.01	0	0	0	0	0	0	0	0
7/24/2024 22:26	24202	PROV_T4	0	1	1	0	0	0	-0.11	-0.12	1	1	0	1200	1200	0
7/24/2024 22:26	63304	GREE_T1	0	0	0	0	0	0	-1.23	-1.27	0	0	0	0	0	0
7/24/2024 22:26	67502	WEWI_T2	0	0	0	0	0	0	-0.89	-1.02	1	1	0	900	900	0
7/24/2024 22:26	67602	WARW_T2	0	0	0	0	0	0	1.02	0.98	2	2	0	1500	1500	0
7/24/2024 22:27	13101	NHAM_T1	1	0	-1	0.4	0	-0.4	-2.75	-2.91	4	4	0	4200	4200	0
7/24/2024 22:27	46101	MACI_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
7/24/2024 22:27	13104	NHAM_T1	16	16	0	1.97	0.82	-1.15	0	0	0	0	0	0	0	0
7/24/2024 22:27	10805	CHHI_T2	15	16	1	1.95	2.01	0.06	-0.68	-0.7	1	1	0	600	600	0
7/24/2024 22:27	62601	ENGL_T1	0	0	0	0	0	0	-1.19	-1.19	0	0	0	0	0	0
7/24/2024 22:27	52004	LING_T2	2	2	0	5	5.35	0.35	0.06	0.05	0	0	0	0	0	0
7/24/2024 22:27	65207	PRIN_T4	2	2	0	0.2	0.1	-0.1	0	0	1	1	0	1200	1200	0
7/24/2024 22:27	53902	HALI_T2	1	1	0	4.1	4.4	0.3	0	0	0	0	0	0	0	0
7/24/2024 22:27	63305	GREE_T1	7	14	7	0.24	0.25	0.01	-1.8	-1.77	1	1	0	900	900	0
7/24/2024 22:27	53903	HALI_T2	2	2	0	0.3	0.45	0.15	-0.05	-0.05	0	0	0	0	0	0
7/24/2024 22:27	65206	PRIN_T4	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:27	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:27	14201	EALL_T1	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
7/24/2024 22:27	47401	PENS_T1	0	0	0	0	0	0	0.23	1.33	0	0	0	0	0	0
7/24/2024 22:27	65802	RTWN_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
7/24/2024 22:27	14603	SWHI_T1	0	0	0	0	0	0	-1.17	-1.2	2	2	0	1200	1200	0
7/24/2024 22:28	67605	WARW_T1	1	1	0	0.5	0.3	-0.2	-0.96	-0.99	0	0	0	0	0	0
7/24/2024 22:28	62102	ELAN_T1	0	0	0	0	0	0	1.22	1.24	0	0	0	0	0	0
7/24/2024 22:28	27603	PIRI_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/24/2024 22:28	11104	EGYP_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
7/24/2024 22:28	14601	SWHI_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
7/24/2024 22:28	66505	SMAN_T2	0	0	0	0	0	0	-0.11	0.08	3	3	0	2100	2100	0
7/24/2024 22:28	64602	LEOL_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
7/24/2024 22:28	52002	LING_T2	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
7/24/2024 22:28	20402	ASHF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/24/2024 22:28	44301	BEAV_T2	0	0	0	0	0	0	-0.07	-1.79	2	2	0	1200	1200	0
7/24/2024 22:28	11102	EGYP_T1	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
7/24/2024 22:28	43202	MVIL_T2	35	39	4	0.21	0.21	0	-0.55	-0.56	0	0	0	0	0	0
7/24/2024 22:28	46206	DANV_T2	1	1	0	0.8	0.6	-0.2	1.95	1.95	2	2	0	2100	2100	0
7/24/2024 22:28	67103	SPRI_T1	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
7/24/2024 22:28	52004	LING_T2	2	2	0	5	5.35	0.35	0	0	0	0	0	0	0	0
7/24/2024 22:28	61102	BERK_T5	0	0	0	0	0	0	-0.05	-0.08	1	1	0	300	300	0
7/24/2024 22:28	64101	REFR_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
7/24/2024 22:28	20403	ASHF_T2	0	0	0	0	0	0	1.07	1.08	0	0	0	0	0	0
7/24/2024 22:28	12701	MACU_T1	0	0	0	0	0	0	-0.91	-0.92	1	1	0	1200	1200	0
7/24/2024 22:28	42903	MIDD_T2	1	0	-1	0.1	0	-0.1	-1.43	-0.38	1	0	-1	1200	0	-1200
7/24/2024 22:28	27605	PIRI_T2	0	0	0	0	0	0	-0.08	-0.01	1	1	0	900	900	0
7/24/2024 22:28	10801	CHHI_T1	0	0	0	0	0	0	-1.55	-1.58	3	3	0	2100	2100	0
7/24/2024 22:28	66504	SMAN_T2	7	7	0	0.46	1	0.54	0	0	0	0	0	0	0	0
7/24/2024 22:28	65802	RTWN_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
7/24/2024 22:28	55101	WERT_T1	0	0	0	0	0	0	-1.77	-1.8	3	3	0	2400	2400	0
7/24/2024 22:28	20401	ASHF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/24/2024 22:29	14601	SWHI_T1	0	0	0	0	0	0	-1.89	-1.91	0	0	0	0	0	0
7/24/2024 22:29	64201	KINZ_T1	1	1	0	1.3	1.7	0.4	-0.37	-0.52	3	3	0	1500	1500	0
7/24/2024 22:29	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:29	53501	EVIL_T2	0	2	2	0	0.3	0.3	-0.26	-0.38	2	2	0	1200	1200	0
7/24/2024 22:29	64202	KINZ_T1	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
7/24/2024 22:29	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/24/2024 22:29	20603	GRWO_T2	58	59	1	0.25	0.26	0.01	-0.42	-0.42	1	1	0	900	900	0
7/24/2024 22:29	43102	SMIL_T2	4	6	2	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/24/2024 22:29	46206	DANV_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/24/2024 22:29	46203	DANV_T2	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
7/24/2024 22:29	40602	PIGR_T1	0	0	0	0	0	0	-1.42	-1.43	1	1	0	600	600	0
7/24/2024 22:29	29402	BELT_T1	1	2	1	8.9	4.75	-4.15	0	0	0	0	0	0	0	0
7/24/2024 22:29	64203	KINZ_T1	0	0	0	0	0	0	0.47	0.41	1	1	0	600	600	0
7/24/2024 22:29	11102	EGYP_T1	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
7/24/2024 22:29	64902	MILL_T2	0	0	0	0	0	0	-1.75	-1.78	2	2	0	1800	1800	0
7/24/2024 22:29	61102	BERK_T5	0	0	0	0	0	0	-0.1	-0.16	2	2	0	600	600	0
7/24/2024 22:29	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:29	55001	NEWP_T1	0	0	0	0	0	0	-1.97	-2.05	3	3	0	1800	1800	0
7/24/2024 22:29	43105	SMIL_T2	2	8	6	0.1	0.19	0.09	0	0	0	0	0	0	0	0
7/24/2024 22:29	52502	PROG_T2	0	0	0	0	0	0	-0.05	-0.06	1	1	0	900	900	0
7/24/2024 22:29	14603	SWHI_T1	0	0	0	0	0	0	-2.34	-2.4	4	4	0	2400	2400	0
7/24/2024 22:29	14604	SWHI_T1	0	0	0	0	0	0	83.96	83.96	2	2	0	1800	1800	0
7/24/2024 22:29	14605	SWHI_T1	0	0	0	0	0	0	1.69	1.6	1	1	0	1200	1200	0
7/24/2024 22:29	56501	ROCK_T2	1	3	2	0.8	0.17	-0.63	-1.37	-1.28	0	0	0	0	0	0
7/24/2024 22:29	10805	CHHI_T2	15	16	1	1.95	2.01	0.06	-0.68	-0.7	1	1	0	600	600	0
7/24/2024 22:29	55002	NEWP_T1	2	2	0	0.3	0.25	-0.05	-0.08	-0.08	0	0	0	0	0	0
7/24/2024 22:29	43103	SMIL_T2	2	4	2	0.1	0.4	0.3	-0.58	-0.6	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/24/2024 22:29	64302	LINC_T2	1	0	-1	0.1	0	-0.1	1.45	1.44	0	0	0	0	0	0
7/24/2024 22:29	60502	NMAN_T2	0	0	0	0	0	0	0.2	0.09	0	0	0	0	0	0
7/24/2024 22:29	65604	QVIL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/24/2024 22:29	43402	BENT_T1	0	0	0	0	0	0	-0.84	-0.84	1	1	0	900	900	0
7/24/2024 22:29	40101	HUNT_T2	2	0	-2	0.2	0	-0.2	-1.32	-1.39	0	0	0	0	0	0
7/24/2024 22:29	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
7/24/2024 22:29	65601	QVIL_T2	19	8	-11	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
7/24/2024 22:29	65207	PRIN_T4	2	2	0	0.2	0.1	-0.1	0	0	1	1	0	1200	1200	0
7/24/2024 22:29	64101	REFR_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
7/24/2024 22:29	67402	WAKE_T2	0	0	0	0	0	0	0.02	0.01	1	1	0	600	600	0
7/24/2024 22:29	66703	STRA_T1	0	0	0	0	0	0	0.12	0.08	0	0	0	0	0	0
7/24/2024 22:29	66702	STRA_T1	0	0	0	0	0	0	-0.4	-0.29	2	2	0	1500	1500	0
7/24/2024 22:29	65206	PRIN_T4	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:29	13202	PALM_T2	0	0	0	0	0	0	-2.08	-2.43	3	4	1	3000	3600	600
7/24/2024 22:29	65603	QVIL_T2	2	1	-1	0.1	0.1	0	0.37	0.33	0	0	0	0	0	0
7/24/2024 22:30	46206	DANV_T2	1	1	0	0.6	0.5	-0.1	1.95	1.95	2	2	0	2100	2100	0
7/24/2024 22:30	61103	BERK_T5	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
7/24/2024 22:30	12606	MACA_T1	6	7	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/24/2024 22:30	40101	HUNT_T2	0	0	0	0	0	0	-1.32	-1.39	0	0	0	0	0	0
7/24/2024 22:30	45801	HEGI_T1	0	0	0	0	0	0	-0.39	-0.43	1	1	0	900	900	0
7/24/2024 22:30	52002	LING_T2	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
7/24/2024 22:30	45501	DERR_T2	0	0	0	0	0	0	-0.03	0.15	2	2	0	1800	1800	0
7/24/2024 22:30	44801	EDAN_T2	49	48	-1	0.29	0.34	0.05	0	0	0	0	0	0	0	0
7/24/2024 22:30	10801	CHHI_T1	0	0	0	0	0	0	-1.55	-1.58	3	3	0	2100	2100	0
7/24/2024 22:30	42503	ALTA_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
7/24/2024 22:30	67602	WARW_T2	0	0	0	0	0	0	2.04	1.95	4	4	0	3000	3000	0
7/24/2024 22:30	44802	EDAN_T2	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
7/24/2024 22:30	14601	SWHI_T1	0	0	0	0	0	0	-1.89	-1.91	0	0	0	0	0	0
7/24/2024 22:30	11104	EGYP_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
7/24/2024 22:30	52502	PROG_T2	0	0	0	0	0	0	-0.05	-0.06	1	1	0	900	900	0
7/24/2024 22:30	16605	PONO_T1	0	0	0	0	0	0	-1.13	-1.12	2	2	0	2400	2400	0
7/24/2024 22:30	14603	SWHI_T1	0	1	1	0	0	0	-1.17	-1.2	2	2	0	1200	1200	0
7/24/2024 22:30	12605	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:30	52004	LING_T2	2	2	0	5.35	5.65	0.3	0	0	0	0	0	0	0	0
7/24/2024 22:31	24204	PROV_T3	1	1	0	6.9	6.5	-0.4	0	0	0	0	0	0	0	0
7/24/2024 22:31	24201	PROV_T3	1	1	0	8.5	8.2	-0.3	-0.92	-0.93	1	1	0	1200	1200	0
7/24/2024 22:31	20403	ASHF_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
7/24/2024 22:31	61102	BERK_T5	0	0	0	0	0	0	-0.05	-0.08	1	1	0	300	300	0
7/24/2024 22:31	53501	EVIL_T2	1	2	1	0.1	0.35	0.25	-0.53	-0.77	4	4	0	2400	2400	0
7/24/2024 22:31	67803	WLAN_T1	0	0	0	0	0	0	-1.11	-1.12	0	0	0	0	0	0
7/24/2024 22:31	24902	WHHA_T1	3	6	3	0.4	0.45	0.05	0	0	0	0	0	0	0	0
7/24/2024 22:31	67602	WARW_T2	0	0	0	0	0	0	1.02	0.98	2	2	0	1500	1500	0
7/24/2024 22:31	64101	REFR_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
7/24/2024 22:31	44902	SCOT_T2	334	142	-192	0.41	0.2	-0.21	-0.61	-0.64	0	0	0	0	0	0
7/24/2024 22:31	66702	STRA_T1	0	0	0	0	0	0	-0.4	-0.29	2	2	0	1500	1500	0
7/24/2024 22:31	47401	PENS_T1	0	0	0	0	0	0	0.23	1.33	0	0	0	0	0	0
7/24/2024 22:31	66701	STRA_T1	0	0	0	0	0	0	0.36	0.37	1	1	0	600	600	0
7/24/2024 22:31	24901	WHHA_T1	0	0	0	0	0	0	-0.52	0.69	0	0	0	0	0	0
7/24/2024 22:31	44901	SCOT_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
7/24/2024 22:31	61701	ELIZ_T1	1	1	0	4	4.2	0.2	0.81	0.9	0	0	0	0	0	0
7/24/2024 22:31	53601	DALM_T2	1	1	0	1	1	0	-0.58	-0.62	1	1	0	600	600	0
7/24/2024 22:31	43402	BENT_T1	0	0	0	0	0	0	-0.84	-0.84	1	1	0	900	900	0
7/24/2024 22:32	66001	RHEE_T2	0	0	0	0	0	0	-1.37	-1.33	2	2	0	2100	2100	0
7/24/2024 22:32	40502	CRES_T2	3	4	1	0.2	0.15	-0.05	-0.87	-0.95	0	0	0	0	0	0
7/24/2024 22:32	53902	HALI_T2	1	1	0	4.2	5.1	0.9	0	0	0	0	0	0	0	0
7/24/2024 22:32	46203	DANV_T2	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
7/24/2024 22:32	51003	NHAR_T1	0	0	0	0	0	0	-2.1	-2.2	1	1	0	1200	1200	0
7/24/2024 22:32	15702	TANN_T2	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
7/24/2024 22:32	44801	EDAN_T2	49	48	-1	0.29	0.34	0.05	-1.44	-1.46	0	0	0	0	0	0
7/24/2024 22:32	54201	PENN_T1	3	3	0	0.93	0.77	-0.16	0	0	0	0	0	0	0	0
7/24/2024 22:32	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:32	54203	PENN_T1	5	5	0	0.44	0.52	0.08	0.61	0.58	0	0	0	0	0	0
7/24/2024 22:32	64101	REFR_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
7/24/2024 22:32	56501	ROCK_T2	3	6	3	0.3	0.28	-0.02	-1.37	-1.28	0	0	0	0	0	0
7/24/2024 22:32	45802	HEGI_T2	16	38	22	0.44	0.53	0.09	0.64	0.44	1	1	0	300	300	0
7/24/2024 22:32	53903	HALI_T2	2	2	0	0.45	1	0.55	0	0	0	0	0	0	0	0
7/24/2024 22:32	42201	SHEN_T2	0	0	0	0	0	0	0.36	0.34	1	1	0	600	600	0
7/24/2024 22:32	67602	WARW_T2	0	0	0	0	0	0	1.02	0.98	2	2	0	1500	1500	0
7/24/2024 22:32	46206	DANV_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/24/2024 22:32	14601	SWHI_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
7/24/2024 22:32	53901	HALI_T2	0	1	1	0	0.3	0.3	-1.08	-1.1	0	0	0	0	0	0
7/24/2024 22:32	51002	NHAR_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/24/2024 22:32	51004	NHAR_T1	1	1	0	6.7	6.3	-0.4	0	0	0	0	0	0	0	0
7/24/2024 22:32	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
7/24/2024 22:32	14603	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:32	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:33	56802	BENV_T2	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
7/24/2024 22:33	64101	REFR_T1	0	0	0	0	0	0	-0.56	-0.59	0	0	0	0	0	0
7/24/2024 22:33	63305	GREE_T1	14	13	-1	0.25	0.28	0.03	0	0	0	0	0	0	0	0
7/24/2024 22:33	63304	GREE_T1	0	0	0	0	0	0	-1.23	-1.27	0	0	0	0	0	0
7/24/2024 22:33	41901	REED_T1	7	0	-7	0.24	0	-0.24	0	0	0	0	0	0	0	0
7/24/2024 22:33	45802	HEGI_T2	16	38	22	0.44	0.53	0.09	0.64	0.44	1	1	0	300	300	0
7/24/2024 22:33	67602	WARW_T2	0	0	0	0	0	0	1.02	0.98	2	2	0	1500	1500	0
7/24/2024 22:33	41902	REED_T1	4	4	0	0.5	0	-0.5	0.51	0.48	1	1	0	900	900	0
7/24/2024 22:33	63303	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/24/2024 22:34	64101	REFR_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
7/24/2024 22:34	50502	MECH_T1	1	1	0	1.2	1.6	0.4	0	0	0	0	0	0	0	0
7/24/2024 22:34	66203	SISP_T2	0	0	0	0	0	0	-0.87	-0.85	1	1	0	1200	1200	0
7/24/2024 22:34	58003	WCAR_T1	1	10	9	1.4	0.27	-1.13	0.97	0.97	0	0	0	0	0	0
7/24/2024 22:34	56801	BENV_T1	2	6	4	0.55	0.9	0.35	-1.33	-1.37	3	3	0	1800	1800	0
7/24/2024 22:34	50501	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/24/2024 22:34	55101	WERT_T1	0	0	0	0	0	0	-1.77	-1.8	3	3	0	2400	2400	0
7/24/2024 22:34	50506	MECH_T1	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
7/24/2024 22:34	67602	WARW_T2	0	0	0	0	0	0	1.02	0.98	2	2	0	1500	1500	0
7/24/2024 22:34	61102	BERK_T5	0	0	0	0	0	0	-0.05	-0.08	1	1	0	300	300	0
7/24/2024 22:34	44901	SCOT_T2	3	0	-3	0.23	0	-0.23	0.41	0.32	0	0	0	0	0	0
7/24/2024 22:34	44902	SCOT_T2	334	142	-192	0.41	0.2	-0.21	-0.61	-0.64	0	0	0	0	0	0
7/24/2024 22:34	65503	MOJO_T2	0	0	0	0	0	0	-0.66	-0.58	1	1	0	900	900	0
7/24/2024 22:34	58001	WCAR_T1	4	4	0	0.53	1	0.47	0	0	0	0	0	0	0	0
7/24/2024 22:34	56501	ROCK_T2	3	6	3	0.3	0.28	-0.02	-1.37	-1.28	0	0	0	0	0	0
7/24/2024 22:34	40101	HUNT_T2	0	0	0	0	0	0	-0.66	-0.69	0	0	0	0	0	0
7/24/2024 22:34	56803	BENV_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/24/2024 22:34	66703	STRA_T1	0	0	0	0	0	0	0.12	0.08	0	0	0	0	0	0
7/24/2024 22:34	65802	RTWN_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
7/24/2024 22:34	45501	DERR_T2	0	0	0	0	0	0	-0.1	0.45	6	6	0	5400	5400	0
7/24/2024 22:35	56803	BENV_T1	1	1	0	0.5	0	-0.5	0.52	0.5	0	0	0	0	0	0
7/24/2024 22:35	56801	BENV_T1	2	6	4	0.55	0.9	0.35	0	0	0	0	0	0	0	0
7/24/2024 22:35	44801	EDAN_T2	49	48	-1	0.29	0.34	0.05	-1.44	-1.46	0	0	0	0	0	0
7/24/2024 22:35	54203	PENN_T1	5	5	0	0.44	0.52	0.08	0	0	0	0	0	0	0	0
7/24/2024 22:35	56802	BENV_T2	0	0	0	0	0	0	-1.91	-1.97	0	0	0	0	0	0
7/24/2024 22:35	52403	GRPA_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
7/24/2024 22:35	55001	NEWP_T1	0	0	0	0	0	0	-1.31	-1.37	2	2	0	1200	1200	0
7/24/2024 22:35	52001	LING_T2	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
7/24/2024 22:35	41902	REED_T1	4	4	0	0.5	0	-0.5	0.51	0.48	1	1	0	900	900	0
7/24/2024 22:35	53501	EVIL_T2	1	2	1	0.1	0.35	0.25	-0.26	-0.38	2	2	0	1200	1200	0
7/24/2024 22:35	52401	GRPA_T2	0	1	1	0	0.4	0.4	-0.32	-0.34	0	0	0	0	0	0
7/24/2024 22:35	43304	WATS_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
7/24/2024 22:35	55002	NEWP_T1	2	2	0	0.15	0.8	0.65	-0.15	-0.16	0	0	0	0	0	0
7/24/2024 22:35	55405	SHER_T1	6	11	5	0.47	0.47	0	-0.17	-0.17	0	0	0	0	0	0
7/24/2024 22:35	54201	PENN_T1	3	3	0	0.93	0.77	-0.16	-0.46	-0.49	0	0	0	0	0	0
7/24/2024 22:35	56501	ROCK_T2	3	6	3	0.3	0.28	-0.02	-2.73	-2.56	0	0	0	0	0	0
7/24/2024 22:35	52004	LING_T2	2	2	0	5.35	5.65	0.3	0	0	0	0	0	0	0	0
7/24/2024 22:35	41901	REED_T1	7	0	-7	0.24	0	-0.24	0	0	0	0	0	0	0	0
7/24/2024 22:36	46206	DANV_T2	1	1	0	0.6	0.5	-0.1	1.95	1.91	2	2	0	2100	2100	0
7/24/2024 22:36	40502	CRES_T2	3	4	1	0.2	0.15	-0.05	-0.44	-0.47	0	0	0	0	0	0
7/24/2024 22:36	59101	WALK_T2	0	0	0	0	0	0	2.38	2.42	3	3	0	1800	1800	0
7/24/2024 22:36	44801	EDAN_T2	49	48	-1	0.29	0.34	0.05	0	0	0	0	0	0	0	0
7/24/2024 22:36	50501	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/24/2024 22:36	56501	ROCK_T2	3	6	3	0.3	0.28	-0.02	-1.37	-1.28	0	0	0	0	0	0
7/24/2024 22:36	64101	REFR_T1	0	0	0	0	0	0	-0.59	-0.62	0	0	0	0	0	0
7/24/2024 22:36	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:36	50506	MECH_T1	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
7/24/2024 22:36	50502	MECH_T1	1	1	0	1.2	1.6	0.4	0	0	0	0	0	0	0	0
7/24/2024 22:36	55408	SHER_T2	1	1	0	2.5	2.9	0.4	-0.94	-0.94	1	1	0	1200	1200	0
7/24/2024 22:36	44802	EDAN_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
7/24/2024 22:36	52501	PROG_T1	0	0	0	0	0	0	-0.91	-0.92	1	1	0	300	300	0
7/24/2024 22:36	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/24/2024 22:36	44905	SCOT_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/24/2024 22:36	45501	DERR_T2	0	0	0	0	0	0	0.15	-0.01	2	2	0	1800	1800	0
7/24/2024 22:37	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:37	56802	BENV_T2	0	0	0	0	0	0	-1.97	-2.02	0	0	0	0	0	0
7/24/2024 22:37	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
7/24/2024 22:37	58001	WCAR_T1	4	4	0	0.53	1	0.47	0	0	0	0	0	0	0	0
7/24/2024 22:37	56801	BENV_T1	2	6	4	0.55	0.9	0.35	-0.46	-0.47	1	1	0	600	600	0
7/24/2024 22:37	55101	WERT_T1	0	0	0	0	0	0	-1.8	-1.82	3	3	0	2400	2400	0
7/24/2024 22:37	42201	SHEN_T2	0	0	0	0	0	0	0.34	0.32	1	1	0	600	600	0
7/24/2024 22:37	56803	BENV_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/24/2024 22:37	58003	WCAR_T1	1	10	9	1.4	0.27	-1.13	0.97	0.98	0	0	0	0	0	0
7/24/2024 22:37	56501	ROCK_T2	3	6	3	0.3	0.28	-0.02	-1.28	-1.43	0	0	0	0	0	0
7/24/2024 22:38	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:39	50501	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/24/2024 22:39	53901	HALI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/24/2024 22:39	41901	REED_T1	7	0	-7	0.24	0	-0.24	0	0	0	0	0	0	0	0
7/24/2024 22:39	55001	NEWP_T1	0	0	0	0	0	0	-1.37	-1.43	2	2	0	1200	1200	0
7/24/2024 22:39	52002	LING_T2	0	0	0	0	0	0	0.63	0.55	0	0	0	0	0	0
7/24/2024 22:39	53902	HALI_T2	1	1	0	4.2	5.1	0.9	0	0	0	0	0	0	0	0
7/24/2024 22:39	53903	HALI_T2	2	2	0	0.45	1	0.55	-0.05	-0.05	0	0	0	0	0	0
7/24/2024 22:39	50502	MECH_T1	1	1	0	1.2	1.6	0.4	0	0	0	0	0	0	0	0
7/24/2024 22:39	52004	LING_T2	2	2	0	5.35	5.65	0.3	0	0	0	0	0	0	0	0
7/24/2024 22:39	41902	REED_T1	4	4	0	0.5	0	-0.5	0.48	0.45	1	1	0	900	900	0
7/24/2024 22:39	57401	SPAN_T1	0	0	0	0	0	0	-0.74	-0.72	1	1	0	600	600	0
7/24/2024 22:39	55002	NEWP_T1	2	2	0	0.15	0.8	0.65	0	0	0	0	0	0	0	0
7/24/2024 22:39	50506	MECH_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/24/2024 22:39	57403	SPAN_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
7/24/2024 22:40	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/24/2024 22:40	56801	BENV_T1	2	6	4	0.55	0.9	0.35	-1.37	-1.42	3	3	0	1800	1800	0
7/24/2024 22:40	52403	GRPA_T2	2	2	0	0.3	0.45	0.15	-0.28	-0.3	0	0	0	0	0	0
7/24/2024 22:40	56501	ROCK_T2	3	6	3	0.3	0.28	-0.02	-1.28	-1.43	0	0	0	0	0	0
7/24/2024 22:40	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2024 22:40	56803	BENV_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/24/2024 22:40	41902	REED_T1	4	4	0	0.5	0	-0.5	0.48	0.45	1	1	0	900	900	0
7/24/2024 22:40	55101	WERT_T1	0	0	0	0	0	0	-7.19	-7.27	12	12	0	9600	9600	0
7/24/2024 22:40	53501	EVIL_T2	1	2	1	0.1	0.35	0.25	-0.38	-0.36	2	2	0	1200	1200	0
7/24/2024 22:40	41901	REED_T1	7	0	-7	0.24	0	-0.24	0	0	0	0	0	0	0	0
7/24/2024 22:42	15702	TANN_T2	0	0	0	0	0	0	-0.15	-0.24	0	0	0	0	0	0
7/24/2024 22:42	52403	GRPA_T2	2	2	0	0.3	0.45	0.15	-0.28	-0.3	0	0	0	0	0	0
7/24/2024 22:42	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
7/24/2024 22:42	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/24/2024 22:42	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
7/24/2024 22:45	24201	PROV_T3	1	1	0	8.4	7.8	-0.6	-0.93	-0.95	1	1	0	1200	1200	0
7/24/2024 22:45	24204	PROV_T3	1	1	0	6.8	6.4	-0.4	0	0	0	0	0	0	0	0
7/24/2024 22:55	52002	LING_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
7/24/2024 22:55	52004	LING_T2	2	2	0	5.25	5.7	0.45	0	0	0	0	0	0	0	0
7/24/2024 22:57	64305	LINC_T1	1	1	0	0.5	0.7	0.2	-0.16	-0.19	0	0	0	0	0	0
7/24/2024 23:02	65604	QVIL_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/24/2024 23:02	65601	QVIL_T2	15	0	-15	0.14	0	-0.14	0	0	0	0	0	0	0	0
7/24/2024 23:02	65603	QVIL_T2	1	0	-1	0.1	0	-0.1	0.3	0.41	0	0	0	0	0	0
7/24/2024 23:12	12701	MACU_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	1200	1200	0
7/24/2024 23:58	44802	EDAN_T2	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
7/24/2024 23:58	44801	EDAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/24/2024 23:59	53902	HALI_T2	1	1	0	4.4	4.7	0.3	0	0	0	0	0	0	0	0
7/24/2024 23:59	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/24/2024 23:59	53903	HALI_T2	2	2	0	0.25	0.5	0.25	-0.06	-0.06	0	0	0	0	0	0
7/25/2024 3:07	65901	SAKR_T2	1	1	0	7.5	7.7	0.2	-0.79	-0.86	1	1	0	900	900	0
7/25/2024 6:11	53902	HALI_T2	1	1	0	5	4.6	-0.4	0	0	0	0	0	0	0	0
7/25/2024 6:11	53903	HALI_T2	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/25/2024 6:11	53901	HALI_T2	1	0	-1	0.3	0	-0.3	-1.35	-1.34	0	0	0	0	0	0
7/25/2024 7:20	44903	SCOT_T1	0	0	0	0	0	0	0.56	0.6	0	0	0	0	0	0
7/25/2024 7:27	47403	PENS_T1	0	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0
7/25/2024 7:27	42902	MIDD_T2	0	0	0	0	0	0	-0.07	-0.02	0	0	0	0	0	0
7/25/2024 7:27	47401	PENS_T1	0	2	2	0	0.2	0.2	2.76	2.74	0	0	0	0	0	0
7/25/2024 7:28	42902	MIDD_T2	0	0	0	0	0	0	-0.14	-0.04	0	0	0	0	0	0
7/25/2024 7:30	47403	PENS_T1	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
7/25/2024 7:30	47401	PENS_T1	2	1	-1	0.25	0	-0.25	1.38	1.37	0	0	0	0	0	0
7/25/2024 7:49	65603	QVIL_T2	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
7/25/2024 7:53	15702	TANN_T2	0	1	1	0	0	0	-0.24	-0.2	0	0	0	0	0	0
7/25/2024 7:53	15703	TANN_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
7/25/2024 7:54	15702	TANN_T2	0	1	1	0	0	0	-0.24	-0.2	0	0	0	0	0	0
7/25/2024 7:54	15703	TANN_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
7/25/2024 7:57	47403	PENS_T1	1	1	0	2	1.9	-0.1	0	0	0	0	0	0	0	0
7/25/2024 7:57	47401	PENS_T1	1	1	0	0.2	0	-0.2	1.4	1.39	0	0	0	0	0	0
7/25/2024 7:59	64201	KINZ_T1	1	1	0	0.7	0.3	-0.4	-0.57	-0.21	4	4	0	2100	2100	0
7/25/2024 7:59	64202	KINZ_T1	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/25/2024 7:59	64204	KINZ_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
7/25/2024 8:04	17002	RIRO_T2	0	0	0	0	0	0	0.83	0.86	0	0	0	0	0	0
7/25/2024 8:05	64904	MILL_T1	0	0	0	0	0	0	-0.08	-0.16	0	0	0	0	0	0
7/25/2024 8:05	67103	SPRI_T1	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
7/25/2024 8:09	15702	TANN_T2	0	1	1	0	0	0	-0.2	-0.15	0	0	0	0	0	0
7/25/2024 8:09	29402	BELT_T1	1	1	0	8	7.7	-0.3	0	0	0	0	0	0	0	0
7/25/2024 8:09	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
7/25/2024 8:10	15702	TANN_T2	0	1	1	0	0	0	-0.2	-0.15	0	0	0	0	0	0
7/25/2024 8:10	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
7/25/2024 8:10	22002	BOHE_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
7/25/2024 8:10	22003	BOHE_T1	5	2	-3	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
7/25/2024 8:10	60101	COCA_T1	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
7/25/2024 8:11	24901	WHHA_T1	0	0	0	0	0	0	0.6	0.62	0	0	0	0	0	0
7/25/2024 8:11	24902	WHHA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/25/2024 8:11	44301	BEAV_T2	2	1	-1	1.45	1.2	-0.25	-0.06	-0.21	2	2	0	1500	1500	0
7/25/2024 8:15	53901	HALI_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
7/25/2024 8:15	53903	HALI_T2	2	2	0	1.2	1.15	-0.05	-0.05	-0.05	0	0	0	0	0	0
7/25/2024 8:15	53902	HALI_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
7/25/2024 8:19	63201	MGTN_T2	0	0	0	0	0	0	0.58	0.69	1	1	0	600	600	0
7/25/2024 8:24	67804	WLAN_T1	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
7/25/2024 8:26	67804	WLAN_T1	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
7/25/2024 8:37	24902	WHHA_T1	1	2	1	0.6	0.5	-0.1	1.7	1.7	0	0	0	0	0	0
7/25/2024 8:37	14201	EALL_T1	0	0	0	0	0	0	0.9	1.02	0	0	0	0	0	0
7/25/2024 8:40	14404	SSLA_T1	1	1	0	5.7	5.6	-0.1	0.08	0.08	0	0	0	0	0	0
7/25/2024 8:42	42301	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 8:42	53601	DALM_T2	0	1	1	0	0.3	0.3	-0.51	-0.52	1	1	0	900	900	0
7/25/2024 8:43	14404	SSLA_T1	1	1	0	5.7	5.6	-0.1	0.08	0.08	0	0	0	0	0	0
7/25/2024 8:46	42301	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 8:46	42302	MOWR_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
7/25/2024 8:48	16902	MECK_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
7/25/2024 8:48	51204	MTON_T2	0	0	0	0	0	0	-0.26	-0.26	1	1	0	600	600	0
7/25/2024 8:48	42302	MOWR_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
7/25/2024 8:48	42301	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 8:51	52501	PROG_T1	0	0	0	0	0	0	-0.58	-0.55	0	0	0	0	0	0
7/25/2024 8:53	55101	WERT_T1	0	0	0	0	0	0	-2.03	-1.92	4	4	0	3300	3300	0
7/25/2024 8:53	55103	WERT_T1	1	1	0	4.2	3.8	-0.4	0	0	0	0	0	0	0	0
7/25/2024 9:02	40802	EXCH_T2	4	48	44	0.18	0.13	-0.05	-0.43	-0.68	0	0	0	0	0	0
7/25/2024 9:02	40801	EXCH_T2	2	3	1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
7/25/2024 9:03	45502	DERR_T2	3	9	6	0.9	0.76	-0.14	0	0	0	0	0	0	0	0
7/25/2024 9:03	45501	DERR_T2	1	5	4	0.1	0.25	0.15	1.04	1.15	2	2	0	1800	1800	0
7/25/2024 9:04	40802	EXCH_T2	4	48	44	0.18	0.13	-0.05	-0.43	-0.68	0	0	0	0	0	0
7/25/2024 9:04	40801	EXCH_T2	2	3	1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
7/25/2024 9:04	45501	DERR_T2	1	5	4	0.1	0.25	0.15	1.04	1.15	2	2	0	1800	1800	0
7/25/2024 9:04	45502	DERR_T2	3	9	6	0.9	0.76	-0.14	0	0	0	0	0	0	0	0
7/25/2024 9:09	15703	TANN_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
7/25/2024 9:09	15702	TANN_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
7/25/2024 9:11	40802	EXCH_T2	4	48	44	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
7/25/2024 9:11	40801	EXCH_T2	2	3	1	0.2	0.33	0.13	-0.11	-0.13	1	1	0	1200	1200	0
7/25/2024 9:18	46506	LOHA_T1	0	0	0	0	0	0	-3.9	-3.87	4	4	0	4200	4200	0
7/25/2024 9:19	46506	LOHA_T1	0	0	0	0	0	0	-1.95	-1.94	2	2	0	2100	2100	0
7/25/2024 9:24	67803	WLAN_T1	0	0	0	0	0	0	-1.22	-1.21	0	0	0	0	0	0
7/25/2024 9:25	58001	WCAR_T1	4	4	0	1.05	0.63	-0.42	0	0	0	0	0	0	0	0
7/25/2024 9:25	58003	WCAR_T1	2	1	-1	0.8	1.3	0.5	1.01	1.02	0	0	0	0	0	0
7/25/2024 9:30	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 9:30	52403	GRPA_T2	1	4	3	0.3	0.87	0.57	-0.16	-0.15	0	0	0	0	0	0
7/25/2024 9:30	52402	GRPA_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/25/2024 9:31	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 9:35	16902	MECK_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
7/25/2024 9:35	64904	MILL_T1	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
7/25/2024 9:41	29402	BELT_T1	4	96	92	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/25/2024 9:41	29401	BELT_T1	0	1	1	0	0.2	0.2	0	0	1	1	0	900	900	0
7/25/2024 9:45	45702	LIND_T2	1	3	2	0.1	0.43	0.33	-1.54	-1.54	0	0	0	0	0	0
7/25/2024 9:45	52404	GRPA_T2	0	0	0	0	0	0	1.03	0.94	0	0	0	0	0	0
7/25/2024 9:45	52402	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/25/2024 9:45	52403	GRPA_T2	3	5	2	0.87	0.37	-0.5	0	0	0	0	0	0	0	0
7/25/2024 9:46	52402	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/25/2024 9:46	52403	GRPA_T2	3	5	2	0.87	0.37	-0.5	0	0	0	0	0	0	0	0
7/25/2024 9:46	52404	GRPA_T2	0	0	0	0	0	0	1.03	0.94	0	0	0	0	0	0
7/25/2024 9:56	61306	EARL_T1	0	0	0	0	0	0	-1.17	-1.16	0	0	0	0	0	0
7/25/2024 9:57	61302	EARL_T1	0	0	0	0	0	0	0.61	0.66	3	3	0	2700	2700	0
7/25/2024 9:57	61304	EARL_T1	0	0	0	0	0	0	-0.32	-0.09	2	2	0	1200	1200	0
7/25/2024 9:59	61301	EARL_T1	0	0	0	0	0	0	-1.26	-1.24	2	2	0	1800	1800	0
7/25/2024 9:59	61304	EARL_T1	0	0	0	0	0	0	-0.16	-0.05	1	1	0	600	600	0
7/25/2024 10:00	53903	HALI_T2	2	2	0	0.5	0.8	0.3	-0.02	-0.01	0	0	0	0	0	0
7/25/2024 10:00	65603	QVIL_T2	0	0	0	0	0	0	0.78	0.8	0	0	0	0	0	0
7/25/2024 10:00	15702	TANN_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
7/25/2024 10:00	53902	HALI_T2	1	1	0	4	4.7	0.7	0	0	0	0	0	0	0	0
7/25/2024 10:00	15703	TANN_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
7/25/2024 10:00	40505	CRES_T1	3	3	0	3.27	3.43	0.16	0.65	0.66	0	0	0	0	0	0
7/25/2024 10:00	61303	EARL_T1	0	0	0	0	0	0	0.96	0.81	0	0	0	0	0	0
7/25/2024 10:00	44801	EDAN_T2	33	14	-19	0.22	0.17	-0.05	-1.31	-1.36	0	0	0	0	0	0
7/25/2024 10:00	61306	EARL_T1	0	0	0	0	0	0	-2.33	-2.33	0	0	0	0	0	0
7/25/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-0.29	-0.31	1	1	0	600	600	0
7/25/2024 10:01	61304	EARL_T1	0	0	0	0	0	0	-0.32	-0.09	2	2	0	1200	1200	0
7/25/2024 10:01	12001	HATF_T1	0	0	0	0	0	0	0.8	0.79	2	2	0	1200	1200	0
7/25/2024 10:01	12206	FOGE_T2	0	0	0	0	0	0	-0.74	-0.72	3	3	0	3300	3300	0
7/25/2024 10:01	12202	FOGE_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/25/2024 10:01	61303	EARL_T1	0	0	0	0	0	0	0.48	0.4	0	0	0	0	0	0
7/25/2024 10:02	61303	EARL_T1	0	0	0	0	0	0	0.48	0.4	0	0	0	0	0	0
7/25/2024 10:02	45702	LIND_T2	2	4	2	0.45	0.6	0.15	0	0	0	0	0	0	0	0
7/25/2024 10:02	45701	LIND_T2	0	0	0	0	0	0	-1.41	-1.4	0	0	0	0	0	0
7/25/2024 10:03	46602	LACR_T1	2	1	-1	0.1	0.7	0.6	-0.72	-0.7	0	0	0	0	0	0
7/25/2024 10:03	46102	MACI_T1	0	0	0	0	0	0	0.97	0.97	0	0	0	0	0	0
7/25/2024 10:04	66302	MCGO_T2	0	0	0	0	0	0	-0.29	-0.31	1	1	0	600	600	0
7/25/2024 10:06	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 10:06	67503	WEWI_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
7/25/2024 10:07	64904	MILL_T1	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0
7/25/2024 10:07	57403	SPAN_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
7/25/2024 10:09	24902	WHHA_T1	2	3	1	0.6	0.9	0.3	0.87	0.87	0	0	0	0	0	0
7/25/2024 10:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/25/2024 10:10	20401	ASHF_T2	4	5	1	1.05	1.4	0.35	0	0	0	0	0	0	0	0
7/25/2024 10:10	55101	WERT_T1	0	0	0	0	0	0	-1.58	-1.73	4	4	0	3300	3300	0
7/25/2024 10:10	20403	ASHF_T2	0	0	0	0	0	0	1.31	1.42	0	0	0	0	0	0
7/25/2024 10:10	55103	WERT_T1	1	1	0	4.2	5.3	1.1	0	0	0	0	0	0	0	0
7/25/2024 10:10	29402	BELT_T1	77	53	-24	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
7/25/2024 10:11	10801	CHHI_T1	2	5	3	0.2	0.56	0.36	-1.53	-1.5	3	3	0	2100	2100	0
7/25/2024 10:11	53502	EVIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/25/2024 10:11	53501	EVIL_T2	0	1	1	0	0.3	0.3	-0.5	-0.5	6	6	0	3600	3600	0
7/25/2024 10:12	53501	EVIL_T2	0	1	1	0	0.3	0.3	-0.25	-0.25	3	3	0	1800	1800	0
7/25/2024 10:12	10801	CHHI_T1	2	5	3	0.2	0.56	0.36	-1.53	-1.5	3	3	0	2100	2100	0
7/25/2024 10:12	24902	WHHA_T1	2	3	1	0.6	0.9	0.3	0.87	0.87	0	0	0	0	0	0
7/25/2024 10:12	53502	EVIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/25/2024 10:13	63304	GREE_T1	0	0	0	0	0	0	-1.08	-0.98	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/25/2024 10:15	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 10:16	53502	EVIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/25/2024 10:16	63304	GREE_T1	0	0	0	0	0	0	-1.08	-0.98	0	0	0	0	0	0
7/25/2024 10:16	53501	EVIL_T2	1	2	1	0.3	0.1	-0.2	-0.25	-0.25	3	3	0	1800	1800	0
7/25/2024 10:17	13503	MCMI_T2	0	67	67	0	0.19	0.19	0.09	-0.81	0	0	0	0	0	0
7/25/2024 10:19	25503	MADI_T1	3	0	-3	0.17	0	-0.17	-0.75	-0.74	0	0	0	0	0	0
7/25/2024 10:25	44801	EDAN_T2	9	29	20	0.14	0.17	0.03	-1.33	-1.38	0	0	0	0	0	0
7/25/2024 10:25	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/25/2024 10:25	29402	BELT_T1	51	68	17	0.35	0.41	0.06	0	0	0	0	0	0	0	0
7/25/2024 10:26	21206	ECAR_T2	1	7	6	6.9	1.29	-5.61	0	0	0	0	0	0	0	0
7/25/2024 10:26	21204	ECAR_T2	1	1	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
7/25/2024 10:27	44801	EDAN_T2	9	29	20	0.14	0.17	0.03	-1.33	-1.38	0	0	0	0	0	0
7/25/2024 10:28	64305	LINC_T1	1	1	0	0.7	0.9	0.2	0.12	0.13	0	0	0	0	0	0
7/25/2024 10:30	13503	MCMI_T2	67	0	-67	0.19	0	-0.19	-0.81	-0.64	0	0	0	0	0	0
7/25/2024 10:31	48902	FOSP_T2	0	1	1	0	0	0	-0.16	-0.15	1	1	0	1200	1200	0
7/25/2024 10:31	42302	MOWR_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
7/25/2024 10:32	42302	MOWR_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
7/25/2024 10:34	56501	ROCK_T2	3	12	9	0.6	0.31	-0.29	-2.96	-2.9	0	0	0	0	0	0
7/25/2024 10:35	56501	ROCK_T2	3	12	9	0.6	0.31	-0.29	-1.48	-1.45	0	0	0	0	0	0
7/25/2024 10:36	56501	ROCK_T2	3	12	9	0.6	0.31	-0.29	-4.44	-4.35	0	0	0	0	0	0
7/25/2024 10:37	56501	ROCK_T2	3	12	9	0.6	0.31	-0.29	-2.9	-2.84	0	0	0	0	0	0
7/25/2024 10:38	14802	TREI_T2	0	0	0	0	0	0	0.92	0.94	0	0	0	0	0	0
7/25/2024 10:38	20402	ASHF_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 10:38	20401	ASHF_T2	4	4	0	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
7/25/2024 10:38	56501	ROCK_T2	3	12	9	0.6	0.31	-0.29	-1.45	-1.42	0	0	0	0	0	0
7/25/2024 10:38	14801	TREI_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/25/2024 10:38	20403	ASHF_T2	0	0	0	0	0	0	1.42	1.36	0	0	0	0	0	0
7/25/2024 10:39	47101	MARL_T1	4	4	0	0.23	0	-0.23	-0.47	-0.23	0	0	0	0	0	0
7/25/2024 10:39	58003	WCAR_T1	1	1	0	0.6	0.8	0.2	1.05	1.06	0	0	0	0	0	0
7/25/2024 10:39	58001	WCAR_T1	4	4	0	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
7/25/2024 10:39	44301	BEAV_T2	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
7/25/2024 10:40	56501	ROCK_T2	3	12	9	0.6	0.31	-0.29	-1.45	-1.42	0	0	0	0	0	0
7/25/2024 10:40	45501	DERR_T2	3	4	1	0.23	0.2	-0.03	1.07	1.02	2	2	0	1800	1800	0
7/25/2024 10:40	45502	DERR_T2	6	10	4	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
7/25/2024 10:41	45501	DERR_T2	3	4	1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
7/25/2024 10:41	45502	DERR_T2	6	10	4	0.33	0.3	-0.03	0.28	0.28	1	1	0	300	300	0
7/25/2024 10:41	53601	DALM_T2	1	1	0	0.3	0.8	0.5	-0.54	-0.52	1	1	0	900	900	0
7/25/2024 10:41	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 10:42	20403	ASHF_T2	0	0	0	0	0	0	1.42	1.36	0	0	0	0	0	0
7/25/2024 10:42	45802	HEGI_T2	10	3	-7	0.34	0.5	0.16	0.42	0.49	2	2	0	1200	1200	0
7/25/2024 10:42	20401	ASHF_T2	4	4	0	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
7/25/2024 10:42	20402	ASHF_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 10:44	10805	CHHI_T2	28	25	-3	0.93	0.55	-0.38	-0.11	-0.21	1	1	0	600	600	0
7/25/2024 10:44	45802	HEGI_T2	10	3	-7	0.34	0.5	0.16	0.42	0.49	2	2	0	1200	1200	0
7/25/2024 10:47	46504	LOHA_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
7/25/2024 10:47	46506	LOHA_T1	0	0	0	0	0	0	-1.86	-1.84	2	1	-1	2100	1200	-900
7/25/2024 10:47	46501	LOHA_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/25/2024 10:48	46506	LOHA_T1	0	0	0	0	0	0	-1.86	-1.84	2	1	-1	2100	1200	-900
7/25/2024 10:48	46504	LOHA_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
7/25/2024 10:48	46501	LOHA_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/25/2024 10:48	64903	MILL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 10:48	64902	MILL_T2	0	0	0	0	0	0	-1.56	-1.55	2	2	0	1800	1800	0
7/25/2024 10:49	40101	HUNT_T2	6	28	22	0.28	0.4	0.12	0.11	0.12	0	0	0	0	0	0
7/25/2024 10:50	43202	MVIL_T2	11	2	-9	0.22	0.45	0.23	-0.46	-0.46	0	0	0	0	0	0
7/25/2024 10:53	47403	PENS_T1	1	1	0	0.2	2.1	1.9	0	0	0	0	0	0	0	0
7/25/2024 10:53	47401	PENS_T1	0	2	2	0	0	0	1.67	1.68	0	0	0	0	0	0
7/25/2024 10:55	46206	DANV_T2	5	11	6	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/25/2024 10:55	46204	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 10:55	46203	DANV_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
7/25/2024 10:57	42801	SELI_T1	0	0	0	0	0	0	-0.5	-0.47	1	1	0	1200	1200	0
7/25/2024 10:57	42302	MOWR_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
7/25/2024 10:59	52403	GRPA_T2	6	4	-2	0.4	0.55	0.15	-0.13	-0.1	0	0	0	0	0	0
7/25/2024 10:59	45501	DERR_T2	3	2	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/25/2024 10:59	52402	GRPA_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
7/25/2024 10:59	45502	DERR_T2	4	34	30	0.33	0.28	-0.05	0.28	0.28	1	1	0	300	300	0
7/25/2024 11:00	64305	LINC_T1	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
7/25/2024 11:03	43202	MVIL_T2	2	1	-1	0.45	0.7	0.25	-0.46	-0.45	0	0	0	0	0	0
7/25/2024 11:03	44201	POIN_T1	0	0	0	0	0	0	-0.67	-0.71	2	2	0	2100	2100	0
7/25/2024 11:04	45702	LIND_T2	2	2	0	0.75	1	0.25	-1.44	-1.44	0	0	0	0	0	0
7/25/2024 11:07	60502	NMAN_T2	0	0	0	0	0	0	0.66	0.64	0	0	0	0	0	0
7/25/2024 11:10	15702	TANN_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
7/25/2024 11:10	15703	TANN_T2	1	1	0	6	6.2	0.2	0	0	0	0	0	0	0	0
7/25/2024 11:11	46204	DANV_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/25/2024 11:11	46206	DANV_T2	5	14	9	0.7	0.7	0	2.14	2.13	2	2	0	2100	2100	0
7/25/2024 11:12	53502	EVIL_T2	2	2	0	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/25/2024 11:12	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 11:12	11104	EGYP_T1	5	5	0	0.42	1.14	0.72	1.06	1.07	0	0	0	0	0	0
7/25/2024 11:12	11102	EGYP_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
7/25/2024 11:12	53501	EVIL_T2	2	3	1	0.6	0.63	0.03	-0.25	-0.23	3	3	0	1800	1800	0
7/25/2024 11:14	46204	DANV_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/25/2024 11:14	46206	DANV_T2	5	14	9	0.7	0.7	0	2.14	2.13	2	2	0	2100	2100	0
7/25/2024 11:15	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/25/2024 11:15	11101	EGYP_T1	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
7/25/2024 11:15	11104	EGYP_T1	5	5	0	1.14	1.4	0.26	1.06	1.07	0	0	0	0	0	0
7/25/2024 11:15	11102	EGYP_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
7/25/2024 11:15	52403	GRPA_T2	4	13	9	0.63	0.4	-0.23	-0.1	-0.07	0	0	0	0	0	0
7/25/2024 11:16	64305	LINC_T1	0	0	0	0	0	0	0.18	0.22	0	0	0	0	0	0
7/25/2024 11:18	20603	GRWO_T2	0	1	1	0	0.2	0.2	-1.48	-1.47	2	2	0	2100	2100	0
7/25/2024 11:18	20601	GRWO_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/25/2024 11:19	13903	SEID_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/25/2024 11:19	13905	SEID_T1	0	0	0	0	0	0	0.7	0.73	0	0	0	0	0	0
7/25/2024 11:22	59101	WALK_T2	2	3	1	0.95	1.05	0.1	2.94	3.17	4	4	0	2400	2400	0
7/25/2024 11:22	59102	WALK_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/25/2024 11:23	59102	WALK_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/25/2024 11:23	59101	WALK_T2	2	3	1	0.95	1.05	0.1	1.47	1.58	2	2	0	1200	1200	0
7/25/2024 11:24	16102	BING_T2	0	0	0	0	0	0	-0.11	-0.12	1	1	0	1200	1200	0
7/25/2024 11:24	16101	BING_T2	0	35	35	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 11:28	61301	EARL_T1	0	0	0	0	0	0	-1.21	-1.19	2	2	0	1800	1800	0
7/25/2024 11:30	64203	KINZ_T1	5	2	-3	0.8	1.8	1	0	0	0	0	0	0	0	0
7/25/2024 11:30	64201	KINZ_T1	11	26	15	0.3	0.33	0.03	0.22	0.21	4	4	0	2100	2100	0
7/25/2024 11:30	42302	MOWR_T2	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
7/25/2024 11:30	64204	KINZ_T1	2	2	0	0.55	0.8	0.25	0	0	0	0	0	0	0	0
7/25/2024 11:31	42302	MOWR_T2	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
7/25/2024 11:32	46506	LOHA_T1	0	0	0	0	0	0	-1.81	-1.79	1	1	0	1200	1200	0
7/25/2024 11:32	64201	KINZ_T1	11	26	15	0.3	0.33	0.03	0.22	0.21	4	4	0	2100	2100	0
7/25/2024 11:32	64203	KINZ_T1	5	2	-3	0.8	1.8	1	0	0	0	0	0	0	0	0
7/25/2024 11:32	64204	KINZ_T1	2	2	0	0.55	0.8	0.25	0	0	0	0	0	0	0	0
7/25/2024 11:32	46504	LOHA_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
7/25/2024 11:36	52501	PROG_T1	0	0	0	0	0	0	-0.72	-0.71	1	1	0	300	300	0
7/25/2024 11:36	17002	RIRO_T2	0	0	0	0	0	0	1.04	1.08	0	0	0	0	0	0
7/25/2024 11:38	57603	RUTH_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/25/2024 11:38	57602	RUTH_T2	0	0	0	0	0	0	0.01	-1.03	0	0	0	0	0	0
7/25/2024 11:38	43802	SWIL_T1	0	0	0	0	0	0	0.21	0.23	1	1	0	600	600	0
7/25/2024 11:38	43801	SWIL_T1	2	2	0	2.55	2.6	0.05	0	0	0	0	0	0	0	0
7/25/2024 11:40	10805	CHHI_T2	13	17	4	1.2	1.43	0.23	-0.43	-0.38	1	1	0	600	600	0
7/25/2024 11:41	53601	DALM_T2	1	1	0	0.7	0.8	0.1	-0.5	-0.5	1	1	0	900	900	0
7/25/2024 11:45	67602	WARW_T2	0	2	2	0	0	0	2.09	2.07	4	4	0	3000	3000	0
7/25/2024 11:45	46801	HEPB_T2	2	2	0	0.95	1.05	0.1	0.06	0.07	0	0	0	0	0	0
7/25/2024 11:46	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.74	0	0	0	0	0	0
7/25/2024 11:46	64201	KINZ_T1	19	17	-2	0.26	0.28	0.02	0.21	0.3	4	4	0	2100	2100	0
7/25/2024 11:46	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 11:46	67602	WARW_T2	0	2	2	0	0	0	1.05	1.04	2	2	0	1500	1500	0
7/25/2024 11:46	52002	LING_T2	1	4	3	0.3	0.1	-0.2	1.37	1.45	0	0	0	0	0	0
7/25/2024 11:46	64204	KINZ_T1	2	2	0	0.85	0.65	-0.2	0	0	0	0	0	0	0	0
7/25/2024 11:46	64203	KINZ_T1	2	2	0	2.15	1.1	-1.05	0	0	0	0	0	0	0	0
7/25/2024 11:46	42903	MIDD_T2	0	2	2	0	1.15	1.15	0.94	0.9	1	1	0	1200	1200	0
7/25/2024 11:46	52004	LING_T2	3	2	-1	3.1	4.5	1.4	0	0	0	0	0	0	0	0
7/25/2024 11:47	11102	EGYP_T1	1	2	1	1	1.4	0.4	0	0	0	0	0	0	0	0
7/25/2024 11:47	11101	EGYP_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/25/2024 11:47	11104	EGYP_T1	5	5	0	1.5	0.26	-1.24	1.09	1.1	0	0	0	0	0	0
7/25/2024 11:48	52002	LING_T2	1	4	3	0.3	0.1	-0.2	0.68	0.73	0	0	0	0	0	0
7/25/2024 11:48	52004	LING_T2	3	2	-1	3.1	4.5	1.4	0	0	0	0	0	0	0	0
7/25/2024 11:49	52004	LING_T2	3	2	-1	3.1	4.5	1.4	0	0	0	0	0	0	0	0
7/25/2024 11:49	52002	LING_T2	1	4	3	0.3	0.1	-0.2	1.37	1.45	0	0	0	0	0	0
7/25/2024 11:49	41902	REED_T1	0	0	0	0	0	0	0.51	0.51	1	1	0	900	900	0
7/25/2024 11:51	16902	MECK_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
7/25/2024 11:54	55103	WERT_T1	1	1	0	6.6	5.3	-1.3	0	0	0	0	0	0	0	0
7/25/2024 11:54	55101	WERT_T1	0	0	0	0	0	0	-2.75	-3.13	8	8	0	6600	6600	0
7/25/2024 11:54	61102	BERK_T5	0	0	0	0	0	0	2.19	2.22	2	2	0	600	600	0
7/25/2024 11:54	41902	REED_T1	0	0	0	0	0	0	0.51	0.51	1	1	0	900	900	0
7/25/2024 11:55	55103	WERT_T1	1	1	0	6.6	5.3	-1.3	0	0	0	0	0	0	0	0
7/25/2024 11:55	61102	BERK_T5	0	0	0	0	0	0	1.1	1.11	1	1	0	300	300	0
7/25/2024 11:55	55101	WERT_T1	0	0	0	0	0	0	-1.37	-1.56	4	4	0	3300	3300	0
7/25/2024 11:55	45502	DERR_T2	19	12	-7	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
7/25/2024 11:55	45501	DERR_T2	7	6	-1	0.39	0.38	-0.01	1.22	1.07	2	2	0	1800	1800	0
7/25/2024 11:56	61102	BERK_T5	0	0	0	0	0	0	1.1	1.11	1	1	0	300	300	0
7/25/2024 11:57	53501	EVIL_T2	5	2	-3	0.62	0.9	0.28	0	0	0	0	0	0	0	0
7/25/2024 11:57	55101	WERT_T1	0	0	0	0	0	0	-2.75	-3.13	8	8	0	6600	6600	0
7/25/2024 11:57	53502	EVIL_T2	0	1	1	0	0	0	0.52	0.25	2	2	0	1200	1200	0
7/25/2024 11:57	55103	WERT_T1	1	1	0	6.6	5.3	-1.3	0	0	0	0	0	0	0	0
7/25/2024 11:57	61102	BERK_T5	0	0	0	0	0	0	1.1	1.11	1	1	0	300	300	0
7/25/2024 12:00	45502	DERR_T2	11	49	38	0.29	0.29	0	0	0	0	0	0	0	0	0
7/25/2024 12:00	45501	DERR_T2	6	11	5	0.7	0.33	-0.37	1.22	1.07	2	2	0	1800	1800	0
7/25/2024 12:01	48902	FOSP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/25/2024 12:01	48901	FOSP_T2	0	0	0	0	0	0	-0.06	-0.06	1	1	0	600	600	0
7/25/2024 12:01	53903	HALI_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
7/25/2024 12:01	53902	HALI_T2	1	1	0	4.5	4.1	-0.4	-0.48	-0.49	0	0	0	0	0	0
7/25/2024 12:02	45502	DERR_T2	11	49	38	0.29	0.29	0	0	0	0	0	0	0	0	0
7/25/2024 12:02	67602	WARW_T2	0	2	2	0	0.15	0.15	1.04	1.12	2	2	0	1500	1500	0
7/25/2024 12:02	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/25/2024 12:02	43108	SMIL_T2	0	0	0	0	0	0	-0.82	0	1	1	0	1200	1200	0
7/25/2024 12:02	45501	DERR_T2	6	11	5	0.7	0.33	-0.37	1.22	1.07	2	2	0	1800	1800	0
7/25/2024 12:04	52004	LING_T2	2	2	0	4.5	4.35	-0.15	0.57	0.58	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/25/2024 12:04	52002	LING_T2	4	1	-3	0.78	0	-0.78	0	0	0	0	0	0	0	0
7/25/2024 12:05	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/25/2024 12:05	43102	SMIL_T2	0	0	0	0	0	0	-0.42	0	1	1	0	600	600	0
7/25/2024 12:06	66703	STRA_T1	1	2	1	0.5	0	-0.5	0.78	0.82	0	0	0	0	0	0
7/25/2024 12:07	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/25/2024 12:07	43108	SMIL_T2	0	0	0	0	0	0	0	-0.91	1	1	0	1200	1200	0
7/25/2024 12:07	43102	SMIL_T2	0	0	0	0	0	0	0	-0.88	2	2	0	1200	1200	0
7/25/2024 12:09	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/25/2024 12:09	43103	SMIL_T2	0	0	0	0	0	0	0	-0.9	0	0	0	0	0	0
7/25/2024 12:10	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/25/2024 12:12	58006	WCAR_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
7/25/2024 12:13	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 12:14	53903	HALI_T2	2	2	0	0.5	0.5	0	0.08	0.1	0	0	0	0	0	0
7/25/2024 12:14	53601	DALM_T2	1	1	0	0.8	0.8	0	-0.5	-0.5	1	1	0	900	900	0
7/25/2024 12:14	53902	HALI_T2	1	1	0	4.5	4.1	-0.4	0	0	0	0	0	0	0	0
7/25/2024 12:15	42601	TUSC_T1	0	0	0	0	0	0	-1.92	-1.98	3	3	0	2400	2400	0
7/25/2024 12:16	53903	HALI_T2	2	2	0	0.5	0.35	-0.15	0.08	0.1	0	0	0	0	0	0
7/25/2024 12:16	53902	HALI_T2	1	1	0	4.1	3.9	-0.2	0	0	0	0	0	0	0	0
7/25/2024 12:17	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 12:17	16902	MECK_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
7/25/2024 12:17	67602	WARW_T2	2	2	0	0.15	0.2	0.05	1.12	1.13	2	2	0	1500	1500	0
7/25/2024 12:19	42901	MIDD_T2	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
7/25/2024 12:19	42903	MIDD_T2	2	2	0	1.15	1.05	-0.1	0.18	0.15	1	1	0	1200	1200	0
7/25/2024 12:22	43103	SMIL_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
7/25/2024 12:22	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/25/2024 12:23	20401	ASHF_T2	4	6	2	1.23	1.25	0.02	0	0	0	0	0	0	0	0
7/25/2024 12:23	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 12:23	20403	ASHF_T2	1	1	0	0.2	0.4	0.2	1.27	1.38	0	0	0	0	0	0
7/25/2024 12:24	20401	ASHF_T2	4	6	2	1.23	1.25	0.02	0	0	0	0	0	0	0	0
7/25/2024 12:24	20403	ASHF_T2	1	1	0	0.2	0.4	0.2	1.27	1.38	0	0	0	0	0	0
7/25/2024 12:24	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 12:28	10801	CHIH_T1	1	0	-1	0.1	0	-0.1	-1.15	-1.05	3	3	0	2100	2100	0
7/25/2024 12:29	45802	HEGI_T2	7	28	21	0.21	0.63	0.42	0.23	0.23	2	2	0	1200	1200	0
7/25/2024 12:30	45802	HEGI_T2	13	28	15	0.49	0.63	0.14	0.23	0.23	2	2	0	1200	1200	0
7/25/2024 12:33	40603	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/25/2024 12:33	40602	PIGR_T1	1	1	0	0.7	0	-0.7	-1.21	-1.17	1	1	0	600	600	0
7/25/2024 12:33	52004	LING_T2	2	2	0	4.35	4.65	0.3	0	0	0	0	0	0	0	0
7/25/2024 12:33	55405	SHER_T1	0	6	6	0	0.38	0.38	-0.17	-0.17	0	0	0	0	0	0
7/25/2024 12:33	52002	LING_T2	0	6	6	0	0	0	1.6	1.63	0	0	0	0	0	0
7/25/2024 12:33	40601	PIGR_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/25/2024 12:36	16103	BING_T2	0	0	0	0	0	0	-0.46	-0.44	1	1	0	600	600	0
7/25/2024 12:36	16101	BING_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/25/2024 12:36	65001	NEFF_T2	0	0	0	0	0	0	0.4	0.45	1	1	0	1200	1200	0
7/25/2024 12:36	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 12:40	20402	ASHF_T2	6	0	-6	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/25/2024 12:40	20403	ASHF_T2	1	1	0	1.1	0	-1.1	1.38	1.32	0	0	0	0	0	0
7/25/2024 12:40	20401	ASHF_T2	7	4	-3	2.47	1.15	-1.32	0	0	0	0	0	0	0	0
7/25/2024 12:40	60902	DONG_T2	0	0	0	0	0	0	1.25	1.24	0	0	0	0	0	0
7/25/2024 12:41	43105	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/25/2024 12:41	43108	SMIL_T2	0	0	0	0	0	0	-0.52	-0.61	1	1	0	1200	1200	0
7/25/2024 12:42	24901	WHHA_T1	0	1	1	0	0.3	0.3	-0.11	-0.03	0	0	0	0	0	0
7/25/2024 12:42	61701	ELIZ_T1	2	2	0	2.35	2.35	0	0	0	0	0	0	0	0	0
7/25/2024 12:42	24902	WHHA_T1	2	1	-1	0.6	1	0.4	0	0	0	0	0	0	0	0
7/25/2024 12:42	67602	WARW_T2	2	2	0	0.35	0.15	-0.2	1.14	1.16	2	2	0	1500	1500	0
7/25/2024 12:42	61703	ELIZ_T1	0	0	0	0	0	0	-1.94	-1.97	2	2	0	2100	2100	0
7/25/2024 12:43	61703	ELIZ_T1	0	0	0	0	0	0	-5.83	-5.9	6	6	0	6300	6300	0
7/25/2024 12:43	46004	BERW_T2	0	0	0	0	0	0	0.94	0.92	0	0	0	0	0	0
7/25/2024 12:43	61701	ELIZ_T1	2	2	0	2.35	2.35	0	0	0	0	0	0	0	0	0
7/25/2024 12:44	26704	HEML_T2	0	0	0	0	0	0	-0.58	-0.57	1	1	0	1200	1200	0
7/25/2024 12:44	29402	BELT_T1	2	10	8	4.8	1.06	-3.74	0	0	0	0	0	0	0	0
7/25/2024 12:46	67602	WARW_T2	2	3	1	0.2	0.15	-0.05	1.14	1.16	2	2	0	1500	1500	0
7/25/2024 12:47	24501	GOUL_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
7/25/2024 12:49	23401	HONE_T2	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
7/25/2024 12:50	41602	CLEV_T1	1	1	0	0.2	0.5	0.3	0	0	1	1	0	600	600	0
7/25/2024 12:51	44203	POIN_T2	3	4	1	0.93	0.15	-0.78	0	0	0	0	0	0	0	0
7/25/2024 12:51	66902	SHIL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/25/2024 12:51	44202	POIN_T2	1	1	0	0.7	0	-0.7	-0.77	-0.37	1	2	1	1200	1800	600
7/25/2024 12:51	66901	SHIL_T2	0	0	0	0	0	0	-0.11	-0.07	0	0	0	0	0	0
7/25/2024 12:52	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/25/2024 12:52	41602	CLEV_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/25/2024 12:53	20403	ASHF_T2	1	0	-1	0.4	0	-0.4	1.32	1.36	0	0	0	0	0	0
7/25/2024 12:53	20401	ASHF_T2	2	4	2	1.25	0.68	-0.57	0	0	0	0	0	0	0	0
7/25/2024 12:57	44801	EDAN_T2	5	5	0	0.34	0.44	0.1	-2.5	-2.49	0	0	0	0	0	0
7/25/2024 12:59	24102	EHAZ_T1	3	4	1	0.57	0.6	0.03	0.89	0.85	0	0	0	0	0	0
7/25/2024 12:59	24104	EHAZ_T1	0	1	1	0	0.5	0.5	-1.58	-1.5	1	1	0	1200	1200	0
7/25/2024 12:59	43103	SMIL_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
7/25/2024 12:59	24105	EHAZ_T1	4	4	0	6.33	6.3	-0.03	0	0	0	0	0	0	0	0
7/25/2024 12:59	44801	EDAN_T2	5	5	0	0.34	0.44	0.1	-1.25	-1.25	0	0	0	0	0	0
7/25/2024 12:59	24101	EHAZ_T1	3	2	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/25/2024 13:00	53501	EVIL_T2	1	2	1	1.1	0.45	-0.65	0	0	0	0	0	0	0	0
7/25/2024 13:00	53502	EVIL_T2	0	1	1	0	0.2	0.2	0.56	1.02	4	4	0	2400	2400	0
7/25/2024 13:01	42302	MOWR_T2	3	1	-2	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
7/25/2024 13:01	42301	MOWR_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/25/2024 13:02	48301	ORWI_T1	2	4	2	0.85	0.7	-0.15	1.08	1.1	0	0	0	0	0	0
7/25/2024 13:02	48302	ORWI_T2	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
7/25/2024 13:04	48301	ORWI_T1	2	4	2	0.85	0.7	-0.15	1.08	1.1	0	0	0	0	0	0
7/25/2024 13:05	15202	SFAR_T1	4	6	2	0.75	0.74	-0.01	0	0	0	0	0	0	0	0
7/25/2024 13:05	15201	SFAR_T1	0	0	0	0	0	0	0.97	1.1	2	2	0	1800	1800	0
7/25/2024 13:07	67605	WARW_T1	1	1	0	0.3	0.7	0.4	-0.85	-0.64	0	0	0	0	0	0
7/25/2024 13:09	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 13:09	46002	BERW_T2	0	0	0	0	0	0	-0.74	0	1	1	0	900	900	0
7/25/2024 13:09	40603	PIGR_T1	1	1	0	0.2	0.5	0.3	0.71	0.71	0	0	0	0	0	0
7/25/2024 13:09	40601	PIGR_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/25/2024 13:10	48902	FOSP_T2	0	0	0	0	0	0	0.26	-0.27	1	1	0	1200	1200	0
7/25/2024 13:16	45802	HEGI_T2	14	29	15	0.48	0.61	0.13	0.28	0.03	2	2	0	1200	1200	0
7/25/2024 13:25	51303	WIND_T1	2	14	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
7/25/2024 13:25	63202	MGTN_T2	0	0	0	0	0	0	0	-0.58	1	1	0	900	900	0
7/25/2024 13:25	51301	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 13:26	64203	KINZ_T1	9	11	2	1.08	0.87	-0.21	0	0	0	0	0	0	0	0
7/25/2024 13:26	64202	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 13:26	40502	CRES_T2	1	3	2	0.6	0.25	-0.35	-0.75	-0.71	0	0	0	0	0	0
7/25/2024 13:26	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 13:26	64204	KINZ_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
7/25/2024 13:26	64201	KINZ_T1	59	55	-4	0.38	0	-0.38	0.36	-0.78	4	5	1	2100	3300	1200
7/25/2024 13:27	47802	MOCA_T2	1	0	-1	0.2	0	-0.2	0	-0.38	0	0	0	0	0	0
7/25/2024 13:31	15703	TANN_T2	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
7/25/2024 13:31	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
7/25/2024 13:33	40101	HUNT_T2	3	133	130	0.77	0.41	-0.36	-0.15	-0.1	0	0	0	0	0	0
7/25/2024 13:34	12605	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 13:34	12606	MACA_T1	23	8	-15	0.72	0.6	-0.12	0	0	0	0	0	0	0	0
7/25/2024 13:35	40602	PIGR_T1	1	1	0	0.1	0.6	0.5	-1.04	-1.04	1	1	0	600	600	0
7/25/2024 13:36	67002	STHI_T2	0	0	0	0	0	0	1.35	1.37	0	0	0	0	0	0
7/25/2024 13:36	64203	KINZ_T1	11	7	-4	0.73	0.87	0.14	0	0	0	0	0	0	0	0
7/25/2024 13:36	23002	SAJO_T1	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
7/25/2024 13:36	23001	SAJO_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
7/25/2024 13:36	64202	KINZ_T1	2	1	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/25/2024 13:36	16605	PONO_T1	0	0	0	0	0	0	-0.93	-0.95	2	2	0	2400	2400	0
7/25/2024 13:36	64204	KINZ_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
7/25/2024 13:36	64201	KINZ_T1	55	0	-55	0.32	0	-0.32	-0.78	-0.76	4	5	1	2100	3300	1200
7/25/2024 13:36	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/25/2024 13:37	48302	ORWI_T2	0	0	0	0	0	0	-0.14	-0.11	0	0	0	0	0	0
7/25/2024 13:43	60101	COCA_T1	1	1	0	0.3	0.4	0.1	-0.34	-0.31	1	1	0	1200	1200	0
7/25/2024 13:43	60102	COCA_T1	0	0	0	0	0	0	-0.18	-0.15	3	3	0	2100	2100	0
7/25/2024 13:44	40602	PIGR_T1	1	1	0	0.1	0.6	0.5	-2.08	-2.07	2	2	0	1200	1200	0
7/25/2024 13:46	16402	MOPO_T1	4	6	2	0.4	0.45	0.05	0.4	0.41	0	0	0	0	0	0
7/25/2024 13:46	25402	LAHA_T2	2	2	0	0.8	0.5	-0.3	0	-0.39	0	0	0	0	0	0
7/25/2024 13:47	53501	EVIL_T2	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/25/2024 13:47	53502	EVIL_T2	3	5	2	0.33	0.4	0.07	0.51	0.63	2	2	0	1200	1200	0
7/25/2024 13:47	16402	MOPO_T1	4	6	2	0.4	0.45	0.05	0.4	0.41	0	0	0	0	0	0
7/25/2024 13:48	52404	GRPA_T2	0	0	0	0	0	0	2.1	2.39	0	0	0	0	0	0
7/25/2024 13:48	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 13:48	42902	MIDD_T2	1	2	1	0.6	0.1	-0.5	-0.14	-0.03	1	1	0	600	600	0
7/25/2024 13:48	52402	GRPA_T2	2	14	12	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
7/25/2024 13:48	52403	GRPA_T2	7	12	5	0.57	0.87	0.3	0	0	0	0	0	0	0	0
7/25/2024 13:48	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 13:49	23001	SAJO_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
7/25/2024 13:49	23002	SAJO_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/25/2024 13:49	44202	POIN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/25/2024 13:49	44203	POIN_T2	7	6	-1	0.94	1.22	0.28	0.27	0.49	2	2	0	2100	2100	0
7/25/2024 13:51	64101	REFR_T1	4	6	2	0.53	0.25	-0.28	-0.11	-0.11	0	0	0	0	0	0
7/25/2024 13:51	53802	MBRG_T2	0	0	0	0	0	0	0.35	0.23	0	0	0	0	0	0
7/25/2024 13:51	65901	SAKR_T2	1	1	0	6.2	6.5	0.3	-0.39	-0.32	2	2	0	1500	1500	0
7/25/2024 13:54	51904	COPA_T1	1	1	0	0.2	0.4	0.2	-1.19	-1.18	2	2	0	1200	1200	0
7/25/2024 13:54	47401	PENS_T1	2	5	3	1.1	1	-0.1	0.94	0.93	0	0	0	0	0	0
7/25/2024 13:54	47402	PENS_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/25/2024 13:54	44301	BEAV_T2	1	1	0	1.2	0	-1.2	0.13	-0.14	2	2	0	1500	1500	0
7/25/2024 13:54	47403	PENS_T1	1	3	2	1.8	1.03	-0.77	0	0	0	0	0	0	0	0
7/25/2024 13:55	55105	WERT_T1	0	0	0	0	0	0	0.82	0.85	2	2	0	1800	1800	0
7/25/2024 13:55	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 13:55	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 13:55	55101	WERT_T1	0	0	0	0	0	0	-1.92	-2.01	4	4	0	3300	3300	0
7/25/2024 13:55	42902	MIDD_T2	1	2	1	0.6	0.1	-0.5	-0.05	-0.05	2	2	0	1200	1200	0
7/25/2024 13:55	55103	WERT_T1	1	1	0	9	6.8	-2.2	0	0	0	0	0	0	0	0
7/25/2024 13:56	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 13:57	44801	EDAN_T2	3	4	1	0.57	0.58	0.01	-1.09	-1.2	0	0	0	0	0	0
7/25/2024 13:57	15703	TANN_T2	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
7/25/2024 13:57	15702	TANN_T2	0	2	2	0	0.1	0.1	-0.03	0.07	0	0	0	0	0	0
7/25/2024 13:58	61504	EPET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 13:58	61501	EPET_T2	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
7/25/2024 13:59	47403	PENS_T1	1	3	2	1.8	1.03	-0.77	0	0	0	0	0	0	0	0
7/25/2024 13:59	47401	PENS_T1	2	5	3	1.1	1	-0.1	0.94	0.93	0	0	0	0	0	0
7/25/2024 13:59	47402	PENS_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/25/2024 13:59	44801	EDAN_T2	3	4	1	0.57	0.58	0.01	-1.09	-1.2	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/25/2024 14:00	64701	LITI_T1	8	0	-8	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/25/2024 14:00	64704	LITI_T1	0	0	0	0	0	0	0.32	0.38	1	1	0	600	600	0
7/25/2024 14:00	12701	MACU_T1	0	0	0	0	0	0	-0.69	-0.71	1	1	0	1200	1200	0
7/25/2024 14:00	61504	EPET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 14:00	61501	EPET_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
7/25/2024 14:01	12701	MACU_T1	0	0	0	0	0	0	-0.69	-0.71	1	1	0	1200	1200	0
7/25/2024 14:02	25402	LAHA_T2	2	1	-1	0.5	0.1	-0.4	-0.39	-0.34	0	0	0	0	0	0
7/25/2024 14:03	13501	MCMI_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
7/25/2024 14:04	12701	MACU_T1	0	0	0	0	0	0	-0.69	-0.71	1	1	0	1200	1200	0
7/25/2024 14:05	12701	MACU_T1	0	0	0	0	0	0	-0.69	-0.71	1	1	0	1200	1200	0
7/25/2024 14:06	67401	WAKE_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
7/25/2024 14:08	65603	QVIL_T2	0	0	0	0	0	0	0.86	1.08	0	0	0	0	0	0
7/25/2024 14:10	14404	SSLA_T1	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
7/25/2024 14:10	14403	SSLA_T1	3	4	1	0.33	0.6	0.27	0.99	1	1	1	0	600	600	0
7/25/2024 14:11	10801	CHHI_T1	8	10	2	0.6	0.4	-0.2	-1.24	-1.2	3	3	0	2100	2100	0
7/25/2024 14:11	67401	WAKE_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
7/25/2024 14:14	60101	COCA_T1	0	2	2	0	0.45	0.45	-0.28	-0.28	1	1	0	1200	1200	0
7/25/2024 14:19	40101	HUNT_T2	64	62	-2	0.52	0.37	-0.15	0.02	0.03	0	0	0	0	0	0
7/25/2024 14:19	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 14:20	40101	HUNT_T2	64	62	-2	0.52	0.37	-0.15	0.04	0.05	0	0	0	0	0	0
7/25/2024 14:21	55002	NEWP_T1	1	2	1	1.5	0.65	-0.85	0	0	0	0	0	0	0	0
7/25/2024 14:21	55001	NEWP_T1	0	0	0	0	0	0	-0.38	-0.36	1	1	0	600	600	0
7/25/2024 14:22	55001	NEWP_T1	0	0	0	0	0	0	-0.36	-0.34	1	1	0	600	600	0
7/25/2024 14:22	55002	NEWP_T1	1	2	1	1.5	0.65	-0.85	0	0	0	0	0	0	0	0
7/25/2024 14:23	40101	HUNT_T2	64	62	-2	0.52	0.37	-0.15	0.03	0.02	0	0	0	0	0	0
7/25/2024 14:24	24902	WHHA_T1	2	3	1	0.8	0.73	-0.07	0.97	0.98	0	0	0	0	0	0
7/25/2024 14:24	44301	BEAV_T2	0	0	0	0	0	0	-0.64	0.1	2	1	-1	1500	600	-900
7/25/2024 14:25	44301	BEAV_T2	0	0	0	0	0	0	-0.64	0.1	2	1	-1	1500	600	-900
7/25/2024 14:26	24901	WHHA_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
7/25/2024 14:26	24902	WHHA_T1	2	3	1	0.8	0.73	-0.07	0	0	0	0	0	0	0	0
7/25/2024 14:26	44301	BEAV_T2	0	0	0	0	0	0	-0.64	0.1	2	1	-1	1500	600	-900
7/25/2024 14:27	20401	ASHF_T2	5	4	-1	1.42	0.87	-0.55	0	0	0	0	0	0	0	0
7/25/2024 14:27	20402	ASHF_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/25/2024 14:27	20403	ASHF_T2	2	4	2	0.1	0	-0.1	1.41	0.31	0	0	0	0	0	0
7/25/2024 14:27	44301	BEAV_T2	0	0	0	0	0	0	-0.64	0.1	2	1	-1	1500	600	-900
7/25/2024 14:28	44301	BEAV_T2	0	0	0	0	0	0	-0.64	0.1	2	1	-1	1500	600	-900
7/25/2024 14:28	40201	BEGA_T2	0	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0
7/25/2024 14:28	60101	COCA_T1	2	2	0	0.45	0.45	0	-0.28	-0.28	1	1	0	1200	1200	0
7/25/2024 14:29	42301	MOWR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/25/2024 14:30	60101	COCA_T1	0	2	2	0	0.45	0.45	-0.28	-0.28	1	1	0	1200	1200	0
7/25/2024 14:30	64701	LITI_T1	0	10	10	0	0.48	0.48	0.16	0.28	1	1	0	900	900	0
7/25/2024 14:33	46504	LOHA_T1	2	2	0	0.25	0.9	0.65	0	0	0	0	0	0	0	0
7/25/2024 14:33	26803	JAFR_T1	0	0	0	0	0	0	-0.04	-0.04	1	1	0	900	900	0
7/25/2024 14:33	46506	LOHA_T1	0	1	1	0	0.1	0.1	-1.59	-1.64	1	1	0	1200	1200	0
7/25/2024 14:33	46501	LOHA_T1	6	1	-5	0.52	0	-0.52	0	0	0	0	0	0	0	0
7/25/2024 14:34	52403	GRPA_T2	5	65	60	0.6	0.64	0.04	0.16	0.28	0	0	0	0	0	0
7/25/2024 14:34	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 14:34	52402	GRPA_T2	6	22	16	0.48	0.61	0.13	0	0	0	0	0	0	0	0
7/25/2024 14:34	45801	HEGI_T1	0	0	0	0	0	0	-0.21	-0.21	1	1	0	900	900	0
7/25/2024 14:36	66302	MCGO_T2	0	0	0	0	0	0	-1.12	-0.95	1	1	0	600	600	0
7/25/2024 14:36	47001	HUGH_T2	3	3	0	8.2	8.33	0.13	-0.18	-0.15	0	0	0	0	0	0
7/25/2024 14:39	47001	HUGH_T2	3	3	0	8.2	8.33	0.13	-0.18	-0.15	0	0	0	0	0	0
7/25/2024 14:40	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 14:40	29402	BELT_T1	1	176	175	0.1	1.03	0.93	0	0	0	0	0	0	0	0
7/25/2024 14:41	47401	PENS_T1	3	3	0	1.27	0.87	-0.4	0.96	0.97	0	0	0	0	0	0
7/25/2024 14:41	47402	PENS_T1	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
7/25/2024 14:41	47403	PENS_T1	1	4	3	0.2	0.53	0.33	0	0	0	0	0	0	0	0
7/25/2024 14:42	20403	ASHF_T2	4	0	-4	0.35	0	-0.35	0.31	0.26	0	0	0	0	0	0
7/25/2024 14:42	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 14:42	20401	ASHF_T2	4	4	0	1.28	0.87	-0.41	0	0	0	0	0	0	0	0
7/25/2024 14:42	10801	CHHI_T1	7	32	25	0.51	0.46	-0.05	-1.17	-1.14	3	3	0	2100	2100	0
7/25/2024 14:44	16402	MOPO_T1	3	2	-1	0.3	0.4	0.1	0.4	0.37	0	0	0	0	0	0
7/25/2024 14:44	16401	MOPO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 14:44	40201	BEGA_T2	1	1	0	2	1.6	-0.4	0	0	0	0	0	0	0	0
7/25/2024 14:45	46802	HEPB_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
7/25/2024 14:45	45501	DERR_T2	3	2	-1	0.53	0.55	0.02	1.05	1	2	2	0	1800	1800	0
7/25/2024 14:52	57401	SPAN_T1	0	0	0	0	0	0	-0.45	-0.32	1	1	0	600	600	0
7/25/2024 14:52	45402	WBLO_T2	1	2	1	1.1	0.85	-0.25	-0.9	-0.86	1	1	0	900	900	0
7/25/2024 14:55	45402	WBLO_T2	1	2	1	1.1	0.85	-0.25	-0.9	-0.86	1	1	0	900	900	0
7/25/2024 14:55	41204	KENM_T2	0	0	0	0	0	0	1.01	1.01	0	0	0	0	0	0
7/25/2024 14:56	44302	BEAV_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
7/25/2024 15:00	44801	EDAN_T2	4	2	-2	0.8	0.85	0.05	-1.09	-1.07	0	0	0	0	0	0
7/25/2024 15:00	41502	FAIR_T2	0	0	0	0	0	0	-1.29	-1.31	1	1	0	900	900	0
7/25/2024 15:01	45802	HEGI_T2	4	9	5	0.2	0.53	0.33	0.53	0.59	1	1	0	300	300	0
7/25/2024 15:07	67602	WARW_T2	6	6	0	0.33	0.3	-0.03	1.2	1.2	2	2	0	1500	1500	0
7/25/2024 15:10	61102	BERK_T5	0	0	0	0	0	0	0.3	0.22	2	2	0	1200	1200	0
7/25/2024 15:12	46206	DANV_T2	6	15	9	0.73	0.54	-0.19	0	0	0	0	0	0	0	0
7/25/2024 15:12	40901	JESH_T1	1	1	0	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
7/25/2024 15:12	46203	DANV_T2	0	0	0	0	0	0	-1.19	-1.34	0	0	0	0	0	0
7/25/2024 15:12	40902	JESH_T1	0	0	0	0	0	0	-0.73	-0.7	1	1	0	600	600	0
7/25/2024 15:13	46206	DANV_T2	6	15	9	0.73	0.54	-0.19	0	0	0	0	0	0	0	0
7/25/2024 15:13	46203	DANV_T2	0	0	0	0	0	0	-1.19	-1.34	0	0	0	0	0	0
7/25/2024 15:20	25501	MADI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 15:20	56504	ROCK_T2	2	6	4	0.2	0.73	0.53	0.44	0.46	0	0	0	0	0	0
7/25/2024 15:20	56501	ROCK_T2	6	3	-3	0.28	0.33	0.05	0	0	0	0	0	0	0	0
7/25/2024 15:20	25503	MADI_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
7/25/2024 15:21	56504	ROCK_T2	2	6	4	0.2	0.73	0.53	0.89	0.91	0	0	0	0	0	0
7/25/2024 15:21	56501	ROCK_T2	6	3	-3	0.28	0.33	0.05	0	0	0	0	0	0	0	0
7/25/2024 15:24	56501	ROCK_T2	6	3	-3	0.28	0.33	0.05	0	0	0	0	0	0	0	0
7/25/2024 15:24	56504	ROCK_T2	2	6	4	0.2	0.73	0.53	0.46	0.47	0	0	0	0	0	0
7/25/2024 15:28	53601	DALM_T2	2	2	0	0.55	1	0.45	-0.84	-0.85	1	1	0	900	900	0
7/25/2024 15:33	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 15:33	21206	ECAR_T2	1	1	0	7.7	7.9	0.2	0.31	0.23	0	0	0	0	0	0
7/25/2024 15:34	20601	GRWO_T2	2	1	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/25/2024 15:34	20603	GRWO_T2	3	3	0	0.67	0.73	0.06	-1.39	-1.41	2	2	0	2100	2100	0
7/25/2024 15:40	20403	ASHF_T2	0	2	2	0	0	0	1.41	1.47	0	0	0	0	0	0
7/25/2024 15:40	20401	ASHF_T2	6	8	2	1.15	0.94	-0.21	0	0	0	0	0	0	0	0
7/25/2024 15:40	20402	ASHF_T2	6	8	2	0.47	0.2	-0.27	0	0	0	0	0	0	0	0
7/25/2024 15:44	40301	TAMA_T3	1	3	2	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 15:44	40302	TAMA_T3	89	111	22	0.6	0.69	0.09	0	0	0	0	0	0	0	0
7/25/2024 15:44	40303	TAMA_T3	20	36	16	0.76	0.59	-0.17	2.83	2.91	0	0	0	0	0	0
7/25/2024 15:46	63203	MGTN_T1	1	1	0	0.5	0.4	-0.1	0.25	0.24	1	1	0	600	600	0
7/25/2024 15:48	46506	LOHA_T1	1	1	0	0.2	0.1	-0.1	-1.67	-1.66	2	2	0	2100	2100	0
7/25/2024 15:48	46501	LOHA_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 15:48	46504	LOHA_T1	2	2	0	0.25	0.85	0.6	0	0	0	0	0	0	0	0
7/25/2024 15:49	45702	LIND_T2	4	1	-3	0.7	0.8	0.1	-1.35	-1.36	0	0	0	0	0	0
7/25/2024 15:51	55002	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/25/2024 15:51	55001	NEWP_T1	0	3	3	0	0	0	-0.31	-0.3	1	1	0	600	600	0
7/25/2024 15:53	47403	PENS_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/25/2024 15:53	47401	PENS_T1	2	0	-2	0.35	0	-0.35	0.97	0.96	0	0	0	0	0	0
7/25/2024 15:54	47401	PENS_T1	2	0	-2	0.35	0	-0.35	0.97	0.96	0	0	0	0	0	0
7/25/2024 15:54	47403	PENS_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/25/2024 15:55	24901	WHHA_T1	0	1	1	0	0.3	0.3	-0.36	-0.38	0	0	0	0	0	0
7/25/2024 15:55	24902	WHHA_T1	1	3	2	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
7/25/2024 15:57	40801	EXCH_T2	3	1	-2	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
7/25/2024 15:57	40802	EXCH_T2	1	1	0	0.4	0.3	-0.1	-0.83	-0.86	0	0	0	0	0	0
7/25/2024 16:03	48301	ORWI_T1	3	5	2	0.67	0.57	-0.1	1.07	1.06	0	0	0	0	0	0
7/25/2024 16:06	47403	PENS_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/25/2024 16:06	47401	PENS_T1	0	0	0	0	0	0	0.96	0.95	0	0	0	0	0	0
7/25/2024 16:07	48301	ORWI_T1	3	5	2	0.67	0.57	-0.1	1.06	1.06	0	0	0	0	0	0
7/25/2024 16:10	47002	HUGH_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
7/25/2024 16:10	47001	HUGH_T2	3	3	0	7.8	8.23	0.43	0	0	0	0	0	0	0	0
7/25/2024 16:15	54601	SUMM_T2	0	0	0	0	0	0	-1.09	-1.15	2	2	0	2100	2100	0
7/25/2024 16:17	22901	HARW_T1	0	2	2	0	0.1	0.1	-0.25	-0.2	1	1	0	1200	1200	0
7/25/2024 16:20	44202	POIN_T2	0	1	1	0	0	0	-0.98	-0.9	2	2	0	1800	1800	0
7/25/2024 16:20	44203	POIN_T2	4	7	3	0.75	1.2	0.45	0	0	0	0	0	0	0	0
7/25/2024 16:26	53601	DALM_T2	1	1	0	0.9	0.7	-0.2	-1.36	-1.35	1	1	0	900	900	0
7/25/2024 16:27	20403	ASHF_T2	1	1	0	0.9	0.4	-0.5	1.07	1.03	0	0	0	0	0	0
7/25/2024 16:27	20401	ASHF_T2	5	5	0	1.6	1.24	-0.36	0	0	0	0	0	0	0	0
7/25/2024 16:32	42903	MIDD_T2	2	3	1	1.25	0.6	-0.65	0	0	0	0	0	0	0	0
7/25/2024 16:32	42902	MIDD_T2	1	8	7	0.8	1.6	0.8	-0.56	0.02	1	0	-1	600	0	-600
7/25/2024 16:33	42301	MOWR_T2	64	62	-2	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
7/25/2024 16:33	42903	MIDD_T2	2	3	1	1.25	0.6	-0.65	0	0	0	0	0	0	0	0
7/25/2024 16:33	67605	WARW_T1	1	1	0	0.6	0.8	0.2	-0.64	-0.64	0	0	0	0	0	0
7/25/2024 16:33	42902	MIDD_T2	1	8	7	0.8	1.6	0.8	-1.11	0.04	2	0	-2	1200	0	-1200
7/25/2024 16:33	42302	MOWR_T2	12	15	3	0.59	0.47	-0.12	0	0	0	0	0	0	0	0
7/25/2024 16:34	42902	MIDD_T2	1	8	7	0.8	1.6	0.8	-0.56	0.02	1	0	-1	600	0	-600
7/25/2024 16:34	42903	MIDD_T2	2	3	1	1.25	0.6	-0.65	0	0	0	0	0	0	0	0
7/25/2024 16:35	42902	MIDD_T2	1	8	7	0.8	1.6	0.8	0	0	0	0	0	0	0	0
7/25/2024 16:35	42903	MIDD_T2	2	3	1	1.25	0.6	-0.65	0	0	0	0	0	0	0	0
7/25/2024 16:37	25603	ARRO_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
7/25/2024 16:37	25602	ARRO_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 16:38	20403	ASHF_T2	1	3	2	1.4	0	-1.4	1.03	1.16	0	0	0	0	0	0
7/25/2024 16:38	20401	ASHF_T2	5	5	0	2.64	1.23	-1.41	0	0	0	0	0	0	0	0
7/25/2024 16:38	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 16:40	67804	WLAN_T1	2	6	4	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/25/2024 16:40	67803	WLAN_T1	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
7/25/2024 16:40	67801	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/25/2024 16:42	14403	SSLA_T1	1	0	-1	0.2	0	-0.2	1.08	1.07	1	1	0	600	600	0
7/25/2024 16:42	14404	SSLA_T1	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
7/25/2024 16:45	14404	SSLA_T1	1	1	0	3.2	3.9	0.7	0	0	0	0	0	0	0	0
7/25/2024 16:45	14403	SSLA_T1	0	0	0	0	0	0	1.08	1.07	1	1	0	600	600	0
7/25/2024 16:48	52401	GRPA_T2	35	31	-4	0.42	0.44	0.02	0	0	0	0	0	0	0	0
7/25/2024 16:48	52403	GRPA_T2	24	34	10	0.57	0.46	-0.11	0.14	0.12	0	0	0	0	0	0
7/25/2024 16:48	52402	GRPA_T2	2	3	1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
7/25/2024 16:49	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 16:53	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 16:59	61703	ELIZ_T1	1	1	0	2	0.4	-1.6	0	0	0	0	0	0	0	0
7/25/2024 16:59	61701	ELIZ_T1	1	1	0	1.8	1.8	0	1.33	1.38	0	0	0	0	0	0
7/25/2024 17:00	65502	MOJO_T2	0	0	0	0	0	0	-0.55	-0.51	1	1	0	900	900	0
7/25/2024 17:00	42302	MOWR_T2	14	9	-5	0.44	0.2	-0.24	0	0	0	0	0	0	0	0
7/25/2024 17:00	42301	MOWR_T2	38	25	-13	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
7/25/2024 17:02	42903	MIDD_T2	3	2	-1	0.13	0.25	0.12	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/25/2024 17:02	42902	MIDD_T2	8	27	19	0.86	0.75	-0.11	-0.03	-0.05	0	0	0	0	0	0
7/25/2024 17:04	64203	KINZ_T1	0	1	1	0	0.2	0.2	-0.19	0.43	3	1	-2	2100	600	-1500
7/25/2024 17:04	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
7/25/2024 17:04	64201	KINZ_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
7/25/2024 17:04	64204	KINZ_T1	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
7/25/2024 17:05	42903	MIDD_T2	3	2	-1	0.13	0.25	0.12	0	0	0	0	0	0	0	0
7/25/2024 17:05	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
7/25/2024 17:05	42902	MIDD_T2	8	27	19	0.86	0.75	-0.11	-0.03	-0.05	0	0	0	0	0	0
7/25/2024 17:06	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
7/25/2024 17:06	47401	PENS_T1	0	1	1	0	0.5	0.5	1.14	1.14	0	0	0	0	0	0
7/25/2024 17:06	47403	PENS_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/25/2024 17:07	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
7/25/2024 17:08	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
7/25/2024 17:09	47403	PENS_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/25/2024 17:09	47401	PENS_T1	0	1	1	0	0.5	0.5	1.14	1.14	0	0	0	0	0	0
7/25/2024 17:10	47403	PENS_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/25/2024 17:10	47401	PENS_T1	0	1	1	0	0.5	0.5	1.14	1.14	0	0	0	0	0	0
7/25/2024 17:11	61501	EPET_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
7/25/2024 17:11	42903	MIDD_T2	3	2	-1	0.13	0.25	0.12	0	0	0	0	0	0	0	0
7/25/2024 17:11	42902	MIDD_T2	8	27	19	0.86	0.75	-0.11	-0.05	-0.07	0	0	0	0	0	0
7/25/2024 17:11	61506	EPET_T2	0	0	0	0	0	0	-0.14	-0.05	1	1	0	900	900	0
7/25/2024 17:13	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
7/25/2024 17:15	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 17:15	21206	ECAR_T2	1	5	4	7.3	3.85	-3.45	0.33	0.4	0	0	0	0	0	0
7/25/2024 17:16	47802	MOCA_T2	1	0	-1	0.1	0	-0.1	-0.52	-0.53	0	0	0	0	0	0
7/25/2024 17:17	61703	ELIZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/25/2024 17:17	61701	ELIZ_T1	1	1	0	1.8	2.3	0.5	1.38	1.29	0	0	0	0	0	0
7/25/2024 17:18	42902	MIDD_T2	19	28	9	0.76	0.74	-0.02	0	0	0	0	0	0	0	0
7/25/2024 17:18	42903	MIDD_T2	2	3	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/25/2024 17:19	58401	MORO_T1	2	2	0	0.25	1.2	0.95	0	0	0	0	0	0	0	0
7/25/2024 17:19	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 17:19	58402	MORO_T1	0	1	1	0	0	0	-1.77	-1.77	5	5	0	3150	3150	0
7/25/2024 17:21	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 17:22	42902	MIDD_T2	19	28	9	0.76	0.74	-0.02	-0.07	-0.1	0	0	0	0	0	0
7/25/2024 17:22	42903	MIDD_T2	2	3	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/25/2024 17:25	40302	TAMA_T3	3	2	-1	0.23	0.3	0.07	0.33	0.31	0	0	0	0	0	0
7/25/2024 17:25	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 17:32	53501	EVIL_T2	0	0	0	0	0	0	-0.5	-0.49	2	2	0	1200	1200	0
7/25/2024 17:43	64302	LINC_T2	9	18	9	0.68	0.5	-0.18	1.89	1.86	0	0	0	0	0	0
7/25/2024 17:46	61702	ELIZ_T2	0	0	0	0	0	0	-1.14	-1.2	2	2	0	1500	1500	0
7/25/2024 17:47	47502	NECO_T1	1	1	0	0.6	0.7	0.1	1.06	1.06	0	0	0	0	0	0
7/25/2024 17:50	47502	NECO_T1	1	1	0	0.6	0.7	0.1	1.06	1.06	0	0	0	0	0	0
7/25/2024 17:53	64101	REFR_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
7/25/2024 17:53	67103	SPRI_T1	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
7/25/2024 17:54	57101	SPHI_T2	6	6	0	0.43	0.63	0.2	0	0	0	0	0	0	0	0
7/25/2024 17:54	57104	SPHI_T2	0	0	0	0	0	0	-0.72	-0.74	1	1	0	900	900	0
7/25/2024 17:54	57106	SPHI_T2	3	3	0	0.27	0.47	0.2	0	0	0	0	0	0	0	0
7/25/2024 17:56	57101	SPHI_T2	6	6	0	0.43	0.63	0.2	0	0	0	0	0	0	0	0
7/25/2024 17:56	57103	SPHI_T2	0	0	0	0	0	0	-0.16	-0.16	1	1	0	600	600	0
7/25/2024 17:56	65004	NEFF_T2	0	0	0	0	0	0	-0.42	-0.42	1	1	0	600	600	0
7/25/2024 17:56	57106	SPHI_T2	3	3	0	0.27	0.47	0.2	0	0	0	0	0	0	0	0
7/25/2024 18:02	11102	EGYP_T1	9	5	-4	0.7	0.75	0.05	0	0	0	0	0	0	0	0
7/25/2024 18:02	11104	EGYP_T1	5	3	-2	0.68	0.1	-0.58	0	0	0	0	0	0	0	0
7/25/2024 18:02	11101	EGYP_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/25/2024 18:02	11103	EGYP_T1	0	0	0	0	0	0	1.67	1.67	0	0	0	0	0	0
7/25/2024 18:03	58202	NEWV_T1	3	0	-3	0.4	0	-0.4	0.76	0.1	0	0	0	0	0	0
7/25/2024 18:03	25402	LAHA_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
7/25/2024 18:04	58202	NEWV_T1	3	0	-3	0.4	0	-0.4	0.76	0.1	0	0	0	0	0	0
7/25/2024 18:14	62102	ELAN_T1	0	0	0	0	0	0	1.79	1.71	0	0	0	0	0	0
7/25/2024 18:21	54201	PENN_T1	3	3	0	0.93	1.17	0.24	-0.23	-0.26	0	0	0	0	0	0
7/25/2024 18:21	54203	PENN_T1	5	17	12	0.86	0.39	-0.47	0	0	0	0	0	0	0	0
7/25/2024 18:23	64602	LEOL_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
7/25/2024 18:24	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 18:25	45902	AUBU_T1	1	1	0	0.2	0.3	0.1	-0.64	-0.59	1	1	0	600	600	0
7/25/2024 18:26	22002	BOHE_T1	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
7/25/2024 18:28	63305	GREE_T1	4	8	4	0.1	0.15	0.05	-1.63	-1.65	1	1	0	900	900	0
7/25/2024 18:29	23202	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
7/25/2024 18:31	63305	GREE_T1	8	3	-5	0.15	0.13	-0.02	-1.63	-1.65	1	1	0	900	900	0
7/25/2024 18:39	57603	RUTH_T2	1	1	0	1.3	0.6	-0.7	0	0	0	0	0	0	0	0
7/25/2024 18:39	57601	RUTH_T2	0	0	0	0	0	0	-0.64	-0.66	1	1	0	900	900	0
7/25/2024 18:41	16301	ALPA_T1	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
7/25/2024 18:45	12006	HATF_T1	0	0	0	0	0	0	0.05	0.04	2	2	0	2400	2400	0
7/25/2024 18:45	62607	ENGL_T1	0	0	0	0	0	0	-0.24	-0.25	1	1	0	300	300	0
7/25/2024 18:45	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 18:50	12002	HATF_T1	0	0	0	0	0	0	-0.64	-0.69	1	1	0	1200	1200	0
7/25/2024 18:51	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
7/25/2024 18:52	65603	QVIL_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
7/25/2024 18:52	65602	QVIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/25/2024 18:54	46001	BERW_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/25/2024 18:57	58001	WCAR_T1	3	6	3	0.57	0.27	-0.3	0	0	0	0	0	0	0	0
7/25/2024 18:57	58003	WCAR_T1	17	32	15	0.23	0.3	0.07	0.51	0.5	1	1	0	600	600	0
7/25/2024 18:58	44301	BEAV_T2	3	6	3	0.47	0.2	-0.27	-0.19	-0.13	1	1	0	600	600	0
7/25/2024 18:59	44301	BEAV_T2	3	6	3	0.47	0.2	-0.27	-0.19	-0.13	1	1	0	600	600	0
7/25/2024 19:13	11205	ELHE_T1	0	0	0	0	0	0	-1.34	-1.4	1	1	0	1200	1200	0
7/25/2024 19:19	11101	EGYP_T1	0	0	0	0	0	0	-0.25	-0.26	1	1	0	1200	1200	0
7/25/2024 19:19	11104	EGYP_T1	3	6	3	0.37	1.06	0.69	0	0	0	0	0	0	0	0
7/25/2024 19:19	11102	EGYP_T1	1	3	2	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
7/25/2024 19:20	46102	MACI_T1	0	0	0	0	0	0	1.01	0.96	0	0	0	0	0	0
7/25/2024 19:27	65004	NEFF_T2	0	0	0	0	0	0	-0.44	-0.02	1	0	-1	600	0	-600
7/25/2024 19:27	65003	NEFF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/25/2024 19:30	63304	GREE_T1	1	26	25	0.1	0.13	0.03	0	0	0	0	0	0	0	0
7/25/2024 19:30	63306	GREE_T1	0	0	0	0	0	0	-1.59	-1.6	1	1	0	900	900	0
7/25/2024 19:30	63305	GREE_T1	3	8	5	0.3	0.38	0.08	0	0	0	0	0	0	0	0
7/25/2024 19:37	14605	SWHI_T1	0	0	0	0	0	0	1.89	1.85	1	1	0	1200	1200	0
7/25/2024 19:40	44301	BEAV_T2	3	3	0	0.33	0.1	-0.23	-0.11	-0.13	1	1	0	600	600	0
7/25/2024 20:02	66302	MCGO_T2	0	0	0	0	0	0	-1.16	-1.17	1	1	0	600	600	0
7/25/2024 20:04	61304	EARL_T1	0	0	0	0	0	0	-0.13	-0.15	1	1	0	600	600	0
7/25/2024 20:06	61304	EARL_T1	0	0	0	0	0	0	-0.15	-0.18	1	1	0	600	600	0
7/25/2024 20:09	57403	SPAN_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
7/25/2024 20:15	10801	CHHI_T1	4	0	-4	0.28	0	-0.28	-1.29	-1.31	3	3	0	2100	2100	0
7/25/2024 20:17	66302	MCGO_T2	0	0	0	0	0	0	-1.17	-1.19	1	1	0	600	600	0
7/25/2024 20:19	42301	MOWR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/25/2024 20:40	47101	MARL_T1	26	30	4	1.38	0.77	-0.61	-0.29	-0.36	0	0	0	0	0	0
7/25/2024 20:42	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 21:01	22901	HARW_T1	0	0	0	0	0	0	-0.22	-0.18	1	1	0	1200	1200	0
7/25/2024 21:01	22903	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 21:02	42801	SELI_T1	0	0	0	0	0	0	-0.49	-0.55	1	1	0	1200	1200	0
7/25/2024 22:12	53902	HALI_T2	1	1	0	5.2	5.2	0	-0.63	-0.65	0	0	0	0	0	0
7/25/2024 22:12	53901	HALI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/25/2024 22:12	53903	HALI_T2	2	1	-1	1.3	0.3	-1	0	0	0	0	0	0	0	0
7/25/2024 22:16	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/25/2024 22:16	53903	HALI_T2	0	2	2	0	0.8	0.8	0.05	0.04	0	0	0	0	0	0
7/25/2024 22:16	53902	HALI_T2	1	0	-1	5	5.5	0.5	0	0	0	0	0	0	0	0
7/25/2024 22:17	53903	HALI_T2	0	2	2	0	0.8	0.8	0.05	0.04	0	0	0	0	0	0
7/25/2024 22:17	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/25/2024 22:17	53902	HALI_T2	1	1	0	5	5.5	0.5	0	0	0	0	0	0	0	0
7/25/2024 22:19	61702	ELIZ_T2	0	0	0	0	0	0	-1.56	-1.59	2	2	0	1500	1500	0
7/25/2024 22:19	57601	RUTH_T2	0	0	0	0	0	0	-1.08	-1.09	1	1	0	900	900	0
7/25/2024 22:21	17002	RIRO_T2	1	1	0	0.7	0.7	0	0.52	0.5	0	0	0	0	0	0
7/25/2024 22:22	45501	DERR_T2	0	0	0	0	0	0	0.22	0.22	2	2	0	1800	1800	0
7/25/2024 22:22	42903	MIDD_T2	0	2	2	0	0.8	0.8	-1.12	-1.16	1	1	0	1200	1200	0
7/25/2024 22:23	26704	HEML_T2	7	30	23	0.1	0.13	0.03	-0.76	-0.77	1	1	0	1200	1200	0
7/25/2024 22:23	10801	CHHI_T1	0	0	0	0	0	0	-1.66	-1.69	3	3	0	2100	2100	0
7/25/2024 22:23	61303	EARL_T1	0	1	1	0	0	0	0.24	0.39	0	0	0	0	0	0
7/25/2024 22:24	11104	EGYP_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/25/2024 22:24	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:24	10805	CHHI_T2	1	1	0	8.2	7.6	-0.6	-1.07	-1.06	1	1	0	600	600	0
7/25/2024 22:24	11103	EGYP_T1	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
7/25/2024 22:24	47401	PENS_T1	0	0	0	0	0	0	1.37	1.36	0	0	0	0	0	0
7/25/2024 22:24	65004	NEFF_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
7/25/2024 22:24	16902	MECK_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
7/25/2024 22:25	46602	LACR_T1	2	0	-2	0.2	0	-0.2	-0.97	-0.99	0	0	0	0	0	0
7/25/2024 22:25	65001	NEFF_T2	0	0	0	0	0	0	-0.62	-0.65	1	1	0	1200	1200	0
7/25/2024 22:25	56501	ROCK_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/25/2024 22:25	12701	MACU_T1	0	0	0	0	0	0	-0.97	-0.99	1	1	0	1200	1200	0
7/25/2024 22:25	64904	MILL_T1	0	0	0	0	0	0	0.15	0.09	0	0	0	0	0	0
7/25/2024 22:25	25404	LAHA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/25/2024 22:25	23202	HIRU_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
7/25/2024 22:25	25402	LAHA_T2	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
7/25/2024 22:25	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:25	11104	EGYP_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/25/2024 22:25	56504	ROCK_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
7/25/2024 22:25	40802	EXCH_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
7/25/2024 22:25	12704	MACU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:25	62102	ELAN_T1	0	0	0	0	0	0	1.23	1.13	0	0	0	0	0	0
7/25/2024 22:25	11103	EGYP_T1	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
7/25/2024 22:25	43102	SMIL_T2	4	5	1	0.43	0.24	-0.19	0	0	0	0	0	0	0	0
7/25/2024 22:25	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/25/2024 22:25	24501	GOUL_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
7/25/2024 22:25	43103	SMIL_T2	0	0	0	0	0	0	-1.15	-1.19	0	0	0	0	0	0
7/25/2024 22:25	29402	BELT_T1	33	25	-8	0.52	0.55	0.03	0	0	0	0	0	0	0	0
7/25/2024 22:26	47001	HUGH_T2	3	3	0	8.2	8.47	0.27	-0.58	-0.61	0	0	0	0	0	0
7/25/2024 22:26	61506	EPET_T2	0	0	0	0	0	0	-0.63	-0.57	1	1	0	900	900	0
7/25/2024 22:26	61501	EPET_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
7/25/2024 22:26	65503	MOJO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/25/2024 22:26	47002	HUGH_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/25/2024 22:26	56504	ROCK_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
7/25/2024 22:26	65502	MOJO_T2	0	1	1	0	0.1	0.1	-1.23	-1.34	1	1	0	900	900	0
7/25/2024 22:26	56501	ROCK_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/25/2024 22:27	46206	DANV_T2	0	0	0	0	0	0	2.06	2.09	2	2	0	2100	2100	0
7/25/2024 22:27	64202	KINZ_T1	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
7/25/2024 22:27	64204	KINZ_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
7/25/2024 22:27	64101	REFR_T1	0	1	1	0	0	0	0.25	0.22	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/25/2024 22:27	13501	MCMI_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
7/25/2024 22:27	23001	SAJO_T1	0	0	0	0	0	0	0.18	0.09	0	0	0	0	0	0
7/25/2024 22:27	52002	LING_T2	0	0	0	0	0	0	0.57	0.53	0	0	0	0	0	0
7/25/2024 22:27	44301	BEAV_T2	0	0	0	0	0	0	-0.42	-0.24	1	1	0	600	600	0
7/25/2024 22:27	60101	COOL_T1	0	0	0	0	0	0	-0.73	-0.75	1	1	0	1200	1200	0
7/25/2024 22:27	52004	LING_T2	2	2	0	5.5	5.7	0.2	0.03	0.01	0	0	0	0	0	0
7/25/2024 22:27	16402	MOPO_T1	0	3	3	0	0	0	0.05	0.02	0	0	0	0	0	0
7/25/2024 22:27	64201	KINZ_T1	18	27	9	0.23	0.21	-0.02	-0.38	-0.18	3	2	-1	1500	1200	-300
7/25/2024 22:27	48301	ORWI_T1	2	2	0	3.5	3.2	-0.3	0.62	0.64	0	0	0	0	0	0
7/25/2024 22:27	64903	MILL_T2	14	18	4	0.14	0.17	0.03	0	0	0	0	0	0	0	0
7/25/2024 22:27	64902	MILL_T2	0	0	0	0	0	0	-0.28	-0.3	1	1	0	900	900	0
7/25/2024 22:27	48302	ORWI_T2	2	2	0	1.15	1.15	0	-0.48	-0.51	0	0	0	0	0	0
7/25/2024 22:27	64203	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/25/2024 22:28	40301	TAMA_T3	2	1	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/25/2024 22:28	15703	TANN_T2	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
7/25/2024 22:28	43102	SMIL_T2	4	5	1	0.43	0.24	-0.19	0	0	0	0	0	0	0	0
7/25/2024 22:28	54201	PENN_T1	3	4	1	0.93	0.68	-0.25	-0.51	-0.53	0	0	0	0	0	0
7/25/2024 22:28	11101	EGYP_T1	0	0	0	0	0	0	1.03	1.04	0	0	0	0	0	0
7/25/2024 22:28	40303	TAMA_T3	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
7/25/2024 22:28	29402	BELT_T1	33	25	-8	0.52	0.55	0.03	0	0	0	0	0	0	0	0
7/25/2024 22:28	58006	WCAR_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
7/25/2024 22:28	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:28	16102	BING_T2	7	14	7	0.1	0.19	0.09	-0.56	-0.58	1	1	0	1200	1200	0
7/25/2024 22:28	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/25/2024 22:28	61102	BERK_T5	0	0	0	0	0	0	0.93	0.63	2	2	0	600	600	0
7/25/2024 22:28	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:28	67602	WARW_T2	0	0	0	0	0	0	0.78	0.76	2	2	0	1500	1500	0
7/25/2024 22:28	11104	EGYP_T1	0	2	2	0	0.25	0.25	0.46	0.43	0	0	0	0	0	0
7/25/2024 22:28	22002	BOHE_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
7/25/2024 22:28	44201	POIN_T1	28	115	87	0.13	0.24	0.11	-1.65	-1.71	2	2	0	2100	2100	0
7/25/2024 22:28	43108	SMIL_T2	0	0	0	0	0	0	-1.11	-1.13	1	1	0	1200	1200	0
7/25/2024 22:28	15702	TANN_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
7/25/2024 22:28	24902	WHHA_T1	1	1	0	0.6	0.2	-0.4	1.67	1.65	0	0	0	0	0	0
7/25/2024 22:28	54203	PENN_T1	5	5	0	0.76	0.9	0.14	0	0	0	0	0	0	0	0
7/25/2024 22:29	40301	TAMA_T3	2	1	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/25/2024 22:29	20603	GRWO_T2	10	11	1	0.11	0.15	0.04	-0.48	-0.49	1	1	0	900	900	0
7/25/2024 22:29	13503	MCMI_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
7/25/2024 22:29	55103	WERT_T1	1	1	0	4.9	3.7	-1.2	0	0	0	0	0	0	0	0
7/25/2024 22:29	20403	ASHF_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
7/25/2024 22:29	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:29	55002	NEWP_T1	2	3	1	0.7	0.77	0.07	0	0	0	0	0	0	0	0
7/25/2024 22:29	16102	BING_T2	7	14	7	0.1	0.19	0.09	0	0	0	0	0	0	0	0
7/25/2024 22:29	46102	MACI_T1	0	0	0	0	0	0	0.89	0.88	0	0	0	0	0	0
7/25/2024 22:29	64903	MILL_T2	14	18	4	0.14	0.17	0.03	0	0	0	0	0	0	0	0
7/25/2024 22:29	55101	WERT_T1	0	0	0	0	0	0	-1.78	-1.81	3	3	0	2400	2400	0
7/25/2024 22:29	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:29	61301	EARL_T1	0	0	0	0	0	0	-0.69	-0.7	1	1	0	900	900	0
7/25/2024 22:29	67602	WARW_T2	0	0	0	0	0	0	0.78	0.76	2	2	0	1500	1500	0
7/25/2024 22:29	64902	MILL_T2	0	0	0	0	0	0	-0.28	-0.3	1	1	0	900	900	0
7/25/2024 22:29	42902	MIDD_T2	0	0	0	0	0	0	-0.78	-0.81	1	1	0	600	600	0
7/25/2024 22:29	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:29	55001	NEWP_T1	0	0	0	0	0	0	-0.69	-0.72	1	1	0	600	600	0
7/25/2024 22:29	64602	LEOL_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
7/25/2024 22:29	13905	SEID_T1	0	0	0	0	0	0	-0.64	-0.67	1	1	0	1200	1200	0
7/25/2024 22:29	42903	MIDD_T2	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
7/25/2024 22:29	40302	TAMA_T3	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
7/25/2024 22:29	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:29	66302	MCGO_T2	0	0	0	0	0	0	-1.3	-1.19	1	1	0	600	600	0
7/25/2024 22:29	56501	ROCK_T2	0	2	2	0	0.25	0.25	-0.73	-0.77	0	0	0	0	0	0
7/25/2024 22:29	45701	LIND_T2	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
7/25/2024 22:29	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:29	16103	BING_T2	0	0	0	0	0	0	-0.69	-0.72	1	1	0	600	600	0
7/25/2024 22:30	56501	ROCK_T2	0	2	2	0	0.25	0.25	-0.73	-0.77	0	0	0	0	0	0
7/25/2024 22:30	61701	ELIZ_T1	1	1	0	4.3	4.8	0.5	0	0	0	0	0	0	0	0
7/25/2024 22:30	46203	DANV_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
7/25/2024 22:30	56504	ROCK_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
7/25/2024 22:30	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:30	63203	MGTN_T1	0	0	0	0	0	0	-0.05	-0.06	1	1	0	600	600	0
7/25/2024 22:30	67605	WARW_T1	3	3	0	0.57	0.67	0.1	-0.99	-1.04	0	0	0	0	0	0
7/25/2024 22:30	24105	EHAZ_T1	4	4	0	6.03	5.85	-0.18	0	0	0	0	0	0	0	0
7/25/2024 22:30	63305	GREE_T1	14	11	-3	0.37	0.45	0.08	-1.89	-1.91	1	1	0	900	900	0
7/25/2024 22:30	12002	HATF_T1	0	0	0	0	0	0	-0.64	-0.81	1	1	0	1200	1200	0
7/25/2024 22:30	61303	EARL_T1	1	0	-1	0.3	0	-0.3	0.48	0.78	0	0	0	0	0	0
7/25/2024 22:30	64302	LINC_T2	0	0	0	0	0	0	1.3	1.26	0	0	0	0	0	0
7/25/2024 22:30	47401	PENS_T1	0	0	0	0	0	0	1.37	1.36	0	0	0	0	0	0
7/25/2024 22:30	21206	ECAR_T2	1	1	0	7.3	7.5	0.2	1.48	1.45	0	0	0	0	0	0
7/25/2024 22:30	66902	SHIL_T2	128	120	-8	0.22	0.25	0.03	0	0	0	0	0	0	0	0
7/25/2024 22:30	52002	LING_T2	0	0	0	0	0	0	0.57	0.53	0	0	0	0	0	0
7/25/2024 22:30	25503	MADI_T1	66	111	45	0.24	0.38	0.14	-0.84	-0.85	0	0	0	0	0	0
7/25/2024 22:30	24901	WHHA_T1	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
7/25/2024 22:30	21204	ECAR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/25/2024 22:30	52004	LING_T2	2	2	0	5.35	5.7	0.35	0	0	0	0	0	0	0	0
7/25/2024 22:30	64101	REFR_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
7/25/2024 22:30	60502	NMAN_T2	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
7/25/2024 22:30	66903	SHIL_T2	14	5	-9	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
7/25/2024 22:30	61703	ELIZ_T1	0	0	0	0	0	0	-2.39	-2.53	2	2	0	2100	2100	0
7/25/2024 22:30	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:30	24902	WHHA_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/25/2024 22:30	26803	JAFR_T1	0	0	0	0	0	0	-0.25	-0.29	1	1	0	900	900	0
7/25/2024 22:30	12701	MACU_T1	0	0	0	0	0	0	-0.97	-0.99	1	1	0	1200	1200	0
7/25/2024 22:30	24102	EHAZ_T1	0	1	1	0	0	0	0.27	0.25	0	0	0	0	0	0
7/25/2024 22:30	66901	SHIL_T2	191	201	10	0.28	0.25	-0.03	-0.44	-0.45	0	0	0	0	0	0
7/25/2024 22:30	53601	DALM_T2	1	1	0	0.1	0.1	0	-0.49	-0.3	1	1	0	900	900	0
7/25/2024 22:31	62607	ENGL_T1	0	0	0	0	0	0	-0.46	-0.48	1	1	0	300	300	0
7/25/2024 22:31	64101	REFR_T1	0	0	0	0	0	0	0.49	0.44	0	0	0	0	0	0
7/25/2024 22:31	64204	KINZ_T1	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
7/25/2024 22:31	20603	GRWO_T2	0	32	32	0	0.19	0.19	-0.48	-0.49	1	1	0	900	900	0
7/25/2024 22:31	46506	LOHA_T1	384	46	-338	0.43	0.12	-0.31	-1.91	-1.93	2	2	0	2100	2100	0
7/25/2024 22:31	63202	MGTN_T2	0	0	0	0	0	0	0.03	-0.02	1	1	0	900	900	0
7/25/2024 22:31	62606	ENGL_T1	4	8	4	0.2	0.36	0.16	0	0	0	0	0	0	0	0
7/25/2024 22:31	16402	MOPO_T1	0	3	3	0	0	0	0.05	0.02	0	0	0	0	0	0
7/25/2024 22:31	40101	HUNT_T2	0	0	0	0	0	0	-0.99	-1.03	0	0	0	0	0	0
7/25/2024 22:31	42601	TUSC_T1	0	0	0	0	0	0	-0.14	-0.2	2	2	0	1800	1800	0
7/25/2024 22:31	14403	SSLA_T1	0	1	1	0	0	0	0.9	0.89	0	0	0	0	0	0
7/25/2024 22:31	64201	KINZ_T1	26	30	4	0.22	0.21	-0.01	-1.15	-0.53	9	6	-3	4500	3600	-900
7/25/2024 22:31	64202	KINZ_T1	2	4	2	0.35	0.7	0.35	0	0	0	0	0	0	0	0
7/25/2024 22:31	58003	WCAR_T1	1	1	0	0.9	1.1	0.2	0.96	0.94	0	0	0	0	0	0
7/25/2024 22:31	14404	SSLA_T1	1	1	0	4.1	4.4	0.3	0	0	0	0	0	0	0	0
7/25/2024 22:31	53502	EVIL_T2	0	0	0	0	0	0	0.46	0.42	1	1	0	600	600	0
7/25/2024 22:31	45501	DERR_T2	0	0	0	0	0	0	0.22	0.22	2	2	0	1800	1800	0
7/25/2024 22:31	43108	SMIL_T2	0	0	0	0	0	0	-1.11	-1.13	1	1	0	1200	1200	0
7/25/2024 22:31	14605	SWHI_T1	0	0	0	0	0	0	1.52	1.51	1	1	0	1200	1200	0
7/25/2024 22:31	43102	SMIL_T2	5	6	1	0.18	0.25	0.07	0	0	0	0	0	0	0	0
7/25/2024 22:31	45502	DERR_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
7/25/2024 22:31	56504	ROCK_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
7/25/2024 22:31	47401	PENS_T1	0	0	0	0	0	0	2.74	2.71	0	0	0	0	0	0
7/25/2024 22:31	64203	KINZ_T1	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
7/25/2024 22:31	61703	ELIZ_T1	0	0	0	0	0	0	-4.78	-5.07	4	4	0	4200	4200	0
7/25/2024 22:31	12006	HATF_T1	0	0	0	0	0	0	0.65	0.61	1	1	0	1200	1200	0
7/25/2024 22:31	53501	EVIL_T2	2	1	-1	0.3	0.9	0.6	0	0	0	0	0	0	0	0
7/25/2024 22:31	56501	ROCK_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/25/2024 22:31	61701	ELIZ_T1	1	1	0	4.3	4.8	0.5	0	0	0	0	0	0	0	0
7/25/2024 22:31	67103	SPRI_T1	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
7/25/2024 22:31	46504	LOHA_T1	2	0	-2	0.75	0	-0.75	0	0	0	0	0	0	0	0
7/25/2024 22:31	48301	ORWI_T1	2	2	0	3.1	3.4	0.3	0.62	0.64	0	0	0	0	0	0
7/25/2024 22:31	11104	EGYP_T1	0	2	2	0	0.3	0.3	0.46	0.43	0	0	0	0	0	0
7/25/2024 22:31	65901	SAKR_T2	1	1	0	8.8	8.6	-0.2	-1.17	-1.19	2	2	0	1500	1500	0
7/25/2024 22:31	58001	WCAR_T1	2	4	2	0.1	0.35	0.25	0	0	0	0	0	0	0	0
7/25/2024 22:32	40603	PIGR_T1	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
7/25/2024 22:32	59101	WALK_T2	0	0	0	0	0	0	2.42	2.64	2	2	0	1200	1200	0
7/25/2024 22:32	20403	ASHF_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
7/25/2024 22:32	13503	MCMI_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
7/25/2024 22:32	64203	KINZ_T1	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
7/25/2024 22:32	29402	BELT_T1	2	25	23	4.8	0.55	-4.25	0	0	0	0	0	0	0	0
7/25/2024 22:32	67602	WARW_T2	0	0	0	0	0	0	0.78	0.76	2	2	0	1500	1500	0
7/25/2024 22:32	64101	REFR_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
7/25/2024 22:32	16301	ALPA_T1	8	26	18	0.2	0.16	-0.04	0.09	0.06	0	0	0	0	0	0
7/25/2024 22:32	56501	ROCK_T2	0	2	2	0	0.25	0.25	-2.2	-2.32	0	0	0	0	0	0
7/25/2024 22:32	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/25/2024 22:32	24902	WHHA_T1	1	1	0	0.4	0	-0.4	0.83	0.82	0	0	0	0	0	0
7/25/2024 22:32	20401	ASHF_T2	2	0	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
7/25/2024 22:32	55405	SHER_T1	11	11	0	0.61	0.93	0.32	-0.17	-0.17	0	0	0	0	0	0
7/25/2024 22:32	52501	PROG_T1	0	0	0	0	0	0	-1.02	-1.06	1	1	0	300	300	0
7/25/2024 22:32	67803	WLAN_T1	0	0	0	0	0	0	-1.13	-1.15	0	0	0	0	0	0
7/25/2024 22:32	64202	KINZ_T1	2	4	2	0.35	0.7	0.35	0	0	0	0	0	0	0	0
7/25/2024 22:32	45902	AUBU_T1	0	0	0	0	0	0	-0.82	-0.84	1	1	0	600	600	0
7/25/2024 22:32	46203	DANV_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
7/25/2024 22:32	48902	FOSP_T2	0	0	0	0	0	0	-0.04	-0.07	0	0	0	0	0	0
7/25/2024 22:32	47001	HUGH_T2	3	3	0	8.47	7.9	-0.57	-0.58	-0.61	0	0	0	0	0	0
7/25/2024 22:32	67605	WARW_T1	3	3	0	0.57	0.67	0.1	-0.99	-1.04	0	0	0	0	0	0
7/25/2024 22:32	53501	EVIL_T2	2	1	-1	0.3	0.9	0.6	0	0	0	0	0	0	0	0
7/25/2024 22:32	53502	EVIL_T2	0	0	0	0	0	0	0.46	0.42	1	1	0	600	600	0
7/25/2024 22:32	40502	CRES_T2	3	11	8	0.13	0.22	0.09	-0.64	-0.68	0	0	0	0	0	0
7/25/2024 22:32	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:32	64201	KINZ_T1	26	30	4	0.22	0.21	-0.01	-0.38	-0.18	3	2	-1	1500	1200	-300
7/25/2024 22:32	64204	KINZ_T1	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
7/25/2024 22:32	63305	GREE_T1	14	11	-3	0.37	0.45	0.08	-1.89	-1.91	1	1	0	900	900	0
7/25/2024 22:33	54601	SUMM_T2	0	0	0	0	0	0	-1.45	-1.52	2	2	0	2100	2100	0
7/25/2024 22:33	15702	TANN_T2	0	0	0	0	0	0	-0.48	-0.53	0	0	0	0	0	0
7/25/2024 22:33	47401	PENS_T1	0	0	0	0	0	0	1.37	1.36	0	0	0	0	0	0
7/25/2024 22:33	20401	ASHF_T2	2	0	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
7/25/2024 22:33	40602	PIGR_T1	0	0	0	0	0	0	-0.92	-0.95	1	1	0	600	600	0
7/25/2024 22:33	58001	WCAR_T1	2	4	2	0.1	0.35	0.25	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/25/2024 22:33	16902	MECK_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
7/25/2024 22:33	57104	SPHI_T2	0	0	0	0	0	0	-0.45	-0.49	0	0	0	0	0	0
7/25/2024 22:33	63305	GREE_T1	14	11	-3	0.37	0.45	0.08	0	0	0	0	0	0	0	0
7/25/2024 22:33	15703	TANN_T2	1	1	0	4.8	4.9	0.1	0	0	0	0	0	0	0	0
7/25/2024 22:33	53501	EVIL_T2	2	1	-1	0.3	0.9	0.6	-0.83	-0.85	2	2	0	1200	1200	0
7/25/2024 22:33	58003	WCAR_T1	1	1	0	0.9	1.1	0.2	0.96	0.94	0	0	0	0	0	0
7/25/2024 22:33	61102	BERK_T5	0	0	0	0	0	0	0.93	0.63	2	2	0	600	600	0
7/25/2024 22:33	67602	WARW_T2	0	0	0	0	0	0	0.78	0.76	2	2	0	1500	1500	0
7/25/2024 22:33	29402	BELT_T1	2	25	23	4.8	0.55	-4.25	0	0	0	0	0	0	0	0
7/25/2024 22:33	60101	CDCA_T1	0	0	0	0	0	0	-0.73	-0.75	1	1	0	1200	1200	0
7/25/2024 22:33	63306	GREE_T1	0	0	0	0	0	0	-1.81	-1.84	1	1	0	900	900	0
7/25/2024 22:33	52004	LING_T2	2	2	0	5.35	5.7	0.35	0	0	0	0	0	0	0	0
7/25/2024 22:33	63304	GREE_T1	0	0	0	0	0	0	-1.31	-1.34	0	0	0	0	0	0
7/25/2024 22:33	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/25/2024 22:33	23401	HONE_T2	0	1	1	0	0	0	-0.37	-0.29	0	0	0	0	0	0
7/25/2024 22:33	20403	ASHF_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
7/25/2024 22:33	10801	CHIH_T1	0	0	0	0	0	0	-1.66	-1.69	3	3	0	2100	2100	0
7/25/2024 22:33	57106	SPHI_T2	3	3	0	0.93	1.1	0.17	0	0	0	0	0	0	0	0
7/25/2024 22:33	52002	LING_T2	0	0	0	0	0	0	0.57	0.53	0	0	0	0	0	0
7/25/2024 22:33	44301	BEAV_T2	0	0	0	0	0	0	-0.42	-0.24	1	1	0	600	600	0
7/25/2024 22:33	48902	FOSP_T2	0	0	0	0	0	0	-0.04	-0.07	0	0	0	0	0	0
7/25/2024 22:34	53601	DALM_T2	1	1	0	0.1	0.1	0	-0.49	-0.3	1	1	0	900	900	0
7/25/2024 22:34	10805	CHIH_T2	1	1	0	7.9	7.6	-0.3	-1.07	-1.06	1	1	0	600	600	0
7/25/2024 22:34	57106	SPHI_T2	3	3	0	0.93	1.1	0.17	0	0	0	0	0	0	0	0
7/25/2024 22:34	42903	MIDD_T2	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/25/2024 22:34	67602	WARW_T2	0	0	0	0	0	0	0.78	0.76	2	2	0	1500	1500	0
7/25/2024 22:34	53501	EVIL_T2	2	1	-1	0.3	0.9	0.6	-0.83	-0.85	2	2	0	1200	1200	0
7/25/2024 22:34	58402	MORO_T1	0	0	0	0	0	0	-0.86	-0.9	3	3	0	2400	2400	0
7/25/2024 22:34	40602	PIGR_T1	0	0	0	0	0	0	-1.83	-1.9	2	2	0	1200	1200	0
7/25/2024 22:34	24902	WHHA_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/25/2024 22:34	57103	SPHI_T2	0	0	0	0	0	0	-0.5	-0.53	1	1	0	600	600	0
7/25/2024 22:34	24901	WHHA_T1	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
7/25/2024 22:34	55101	WERT_T1	0	0	0	0	0	0	-3.55	-3.61	6	6	0	4800	4800	0
7/25/2024 22:34	42902	MIDD_T2	0	0	0	0	0	0	-0.78	-0.81	1	1	0	600	600	0
7/25/2024 22:34	44301	BEAV_T2	0	0	0	0	0	0	-0.42	-0.24	1	1	0	600	600	0
7/25/2024 22:34	48301	ORWI_T1	2	2	0	3.1	3.4	0.3	0.62	0.64	0	0	0	0	0	0
7/25/2024 22:34	20403	ASHF_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
7/25/2024 22:34	64101	REFR_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
7/25/2024 22:34	47401	PENS_T1	0	0	0	0	0	0	1.37	1.36	0	0	0	0	0	0
7/25/2024 22:34	20401	ASHF_T2	2	0	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
7/25/2024 22:34	55103	WERT_T1	1	1	0	3.7	4.7	1	0	0	0	0	0	0	0	0
7/25/2024 22:34	61102	BERK_T5	0	0	0	0	0	0	0.47	0.32	1	1	0	300	300	0
7/25/2024 22:34	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:34	67605	WARW_T1	3	3	0	0.57	0.67	0.1	-0.99	-1.04	0	0	0	0	0	0
7/25/2024 22:35	40902	JESH_T1	0	0	0	0	0	0	-0.65	-0.53	0	0	0	0	0	0
7/25/2024 22:35	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:35	42903	MIDD_T2	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/25/2024 22:35	61303	EARL_T1	1	0	-1	0.3	0	-0.3	0.24	0.39	0	0	0	0	0	0
7/25/2024 22:35	20403	ASHF_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
7/25/2024 22:35	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:35	55001	NEWP_T1	0	0	0	0	0	0	-0.69	-0.72	1	1	0	600	600	0
7/25/2024 22:35	40901	JESH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/25/2024 22:35	67401	WAKE_T2	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
7/25/2024 22:35	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:35	64101	REFR_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
7/25/2024 22:35	56501	ROCK_T2	0	2	2	0	0.25	0.25	-0.73	-0.77	0	0	0	0	0	0
7/25/2024 22:35	52404	GRPA_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
7/25/2024 22:35	52402	GRPA_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
7/25/2024 22:35	59101	WALK_T2	0	0	0	0	0	0	1.21	1.32	1	1	0	600	600	0
7/25/2024 22:35	55002	NEWP_T1	2	3	1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
7/25/2024 22:35	44801	EDAN_T2	85	157	72	0.32	0.45	0.13	-1.49	-1.5	0	0	0	0	0	0
7/25/2024 22:35	48301	ORWI_T1	2	2	0	3.1	3.4	0.3	0.62	0.64	0	0	0	0	0	0
7/25/2024 22:35	52401	GRPA_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
7/25/2024 22:35	65205	PRIN_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
7/25/2024 22:35	20401	ASHF_T2	2	0	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
7/25/2024 22:35	53501	EVIL_T2	2	1	-1	0.3	0.9	0.6	-1.66	-1.71	4	4	0	2400	2400	0
7/25/2024 22:35	52004	LING_T2	2	2	0	5.35	5.7	0.35	0	0	0	0	0	0	0	0
7/25/2024 22:35	52002	LING_T2	0	0	0	0	0	0	0.57	0.53	0	0	0	0	0	0
7/25/2024 22:36	51301	WIND_T1	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
7/25/2024 22:36	67602	WARW_T2	0	0	0	0	0	0	0.76	0.74	2	2	0	1500	1500	0
7/25/2024 22:36	42902	MIDD_T2	0	0	0	0	0	0	-0.81	-0.76	1	1	0	600	600	0
7/25/2024 22:36	52002	LING_T2	0	0	0	0	0	0	0.57	0.53	0	0	0	0	0	0
7/25/2024 22:36	61701	ELIZ_T1	1	1	0	4.3	4.8	0.5	0	0	0	0	0	0	0	0
7/25/2024 22:36	64203	KINZ_T1	1	3	2	0.1	0.1	0	0.21	0.16	1	1	0	600	600	0
7/25/2024 22:36	52004	LING_T2	2	2	0	5.35	5.7	0.35	0	0	0	0	0	0	0	0
7/25/2024 22:36	40802	EXCH_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
7/25/2024 22:36	56501	ROCK_T2	0	2	2	0	0.25	0.25	-2.2	-2.32	0	0	0	0	0	0
7/25/2024 22:36	55101	WERT_T1	0	0	0	0	0	0	-1.78	-1.81	3	3	0	2400	2400	0
7/25/2024 22:36	64204	KINZ_T1	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
7/25/2024 22:36	64201	KINZ_T1	26	30	4	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
7/25/2024 22:36	44301	BEAV_T2	0	0	0	0	0	0	-0.24	-0.35	1	1	0	600	600	0
7/25/2024 22:36	21204	ECAR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/25/2024 22:36	64202	KINZ_T1	2	4	2	0.35	0.7	0.35	0	0	0	0	0	0	0	0
7/25/2024 22:36	55103	WERT_T1	1	1	0	3.7	4.7	1	0	0	0	0	0	0	0	0
7/25/2024 22:36	14403	SSLA_T1	0	1	1	0	0	0	1.78	1.74	0	0	0	0	0	0
7/25/2024 22:36	53501	EVIL_T2	2	1	-1	0.3	0.9	0.6	-0.83	-0.85	2	2	0	1200	1200	0
7/25/2024 22:36	44801	EDAN_T2	85	157	72	0.32	0.45	0.13	-1.5	-1.48	0	0	0	0	0	0
7/25/2024 22:36	40602	PIGR_T1	0	0	0	0	0	0	-0.92	-0.95	1	1	0	600	600	0
7/25/2024 22:36	61703	ELIZ_T1	0	0	0	0	0	0	-2.53	-2.55	2	2	0	2100	2100	0
7/25/2024 22:36	21206	ECAR_T2	1	1	0	7.3	7.5	0.2	1.48	1.45	0	0	0	0	0	0
7/25/2024 22:36	51303	WIND_T1	14	14	0	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
7/25/2024 22:36	14404	SSLA_T1	1	1	0	4.1	4.4	0.3	0	0	0	0	0	0	0	0
7/25/2024 22:36	58202	NEWV_T1	0	0	0	0	0	0	0.28	0.22	0	0	0	0	0	0
7/25/2024 22:36	11104	EGYP_T1	0	2	2	0	0.3	0.3	0.43	0.39	0	0	0	0	0	0
7/25/2024 22:36	42903	MIDD_T2	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/25/2024 22:37	45502	DERR_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
7/25/2024 22:37	45501	DERR_T2	0	0	0	0	0	0	0.44	0.42	4	4	0	3600	3600	0
7/25/2024 22:37	52402	GRPA_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
7/25/2024 22:37	41901	REED_T1	9	9	0	0.49	0.36	-0.13	0	0	0	0	0	0	0	0
7/25/2024 22:37	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:37	53502	EVIL_T2	0	0	0	0	0	0	0.42	0.39	1	1	0	600	600	0
7/25/2024 22:37	52403	GRPA_T2	0	0	0	0	0	0	0.11	0.06	0	0	0	0	0	0
7/25/2024 22:37	44801	EDAN_T2	85	157	72	0.32	0.45	0.13	-1.5	-1.48	0	0	0	0	0	0
7/25/2024 22:37	55103	WERT_T1	1	1	0	3.7	4.7	1	0	0	0	0	0	0	0	0
7/25/2024 22:37	41902	REED_T1	0	0	0	0	0	0	0.31	0.29	1	1	0	900	900	0
7/25/2024 22:37	43202	MVIL_T2	60	91	31	0.44	0.6	0.16	-0.63	-0.64	0	0	0	0	0	0
7/25/2024 22:37	63304	GREE_T1	0	0	0	0	0	0	-1.34	-1.36	0	0	0	0	0	0
7/25/2024 22:37	64305	LINC_T1	0	1	1	0	0.1	0.1	-0.29	-0.27	0	0	0	0	0	0
7/25/2024 22:37	58202	NEWV_T1	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
7/25/2024 22:37	25404	LAHA_T2	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
7/25/2024 22:37	16605	PONO_T1	0	0	0	0	0	0	-1.32	-1.43	2	2	0	2400	2400	0
7/25/2024 22:37	46102	MACI_T1	0	0	0	0	0	0	0.88	0.73	0	0	0	0	0	0
7/25/2024 22:37	47802	MOCA_T2	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
7/25/2024 22:37	64101	REFR_T1	0	0	0	0	0	0	0.44	0.39	0	0	0	0	0	0
7/25/2024 22:37	25402	LAHA_T2	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
7/25/2024 22:37	56501	ROCK_T2	0	2	2	0	0.25	0.25	-0.77	-0.82	0	0	0	0	0	0
7/25/2024 22:37	53501	EVIL_T2	2	1	-1	0.3	0.9	0.6	0	0	0	0	0	0	0	0
7/25/2024 22:37	55101	WERT_T1	0	0	0	0	0	0	-1.81	-1.84	3	3	0	2400	2400	0
7/25/2024 22:37	63305	GREE_T1	14	11	-3	0.37	0.45	0.08	0	0	0	0	0	0	0	0
7/25/2024 22:37	52401	GRPA_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
7/25/2024 22:37	40502	CRES_T2	3	11	8	0.13	0.22	0.09	-0.68	-0.71	0	0	0	0	0	0
7/25/2024 22:37	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:37	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:38	46504	LOHA_T1	2	0	-2	0.75	0	-0.75	0	0	0	0	0	0	0	0
7/25/2024 22:38	23001	SAJO_T1	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
7/25/2024 22:38	43103	SMIL_T2	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
7/25/2024 22:38	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:38	46506	LOHA_T1	384	46	-338	0.43	0.12	-0.31	-1.93	-1.95	2	2	0	2100	2100	0
7/25/2024 22:38	45702	LIND_T2	0	2	2	0	0.3	0.3	-1.6	-1.63	0	0	0	0	0	0
7/25/2024 22:38	46801	HEPB_T2	2	0	-2	0.4	0	-0.4	0.79	0.77	0	0	0	0	0	0
7/25/2024 22:38	51904	COPA_T1	0	1	1	0	0.2	0.2	-1.42	-1.44	2	2	0	1200	1200	0
7/25/2024 22:38	47502	NECO_T1	1	1	0	0.4	0.5	0.1	0.81	0.8	0	0	0	0	0	0
7/25/2024 22:38	45402	WBLO_T2	102	41	-61	0.41	0.32	-0.09	-0.39	-0.44	0	0	0	0	0	0
7/25/2024 22:38	43102	SMIL_T2	5	6	1	0.18	0.25	0.07	0	0	0	0	0	0	0	0
7/25/2024 22:38	43802	SWIL_T1	0	0	0	0	0	0	0.11	0.1	1	1	0	600	600	0
7/25/2024 22:38	14802	TREI_T2	0	0	0	0	0	0	0.67	0.64	0	0	0	0	0	0
7/25/2024 22:38	66703	STRA_T1	5	4	-1	0.26	0.23	-0.03	0.07	0.04	0	0	0	0	0	0
7/25/2024 22:38	57403	SPAN_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
7/25/2024 22:38	60101	COCA_T1	0	0	0	0	0	0	-1.51	-1.56	2	2	0	2400	2400	0
7/25/2024 22:38	57401	SPAN_T1	0	0	0	0	0	0	-0.65	-0.65	1	1	0	600	600	0
7/25/2024 22:38	45801	HEGI_T2	47	26	-21	1.62	0.43	-1.19	0.82	0.17	0	2	2	0	600	600
7/25/2024 22:38	43202	MVIL_T2	60	91	31	0.44	0.6	0.16	-0.63	-0.64	0	0	0	0	0	0
7/25/2024 22:38	46203	DANV_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
7/25/2024 22:38	43801	SWIL_T1	11	2	-9	0.75	3.25	2.5	0	0	0	0	0	0	0	0
7/25/2024 22:39	43102	SMIL_T2	5	6	1	0.18	0.25	0.07	0	0	0	0	0	0	0	0
7/25/2024 22:39	42903	MIDD_T2	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/25/2024 22:39	48901	FOSP_T2	0	0	0	0	0	0	-0.45	-0.47	1	1	0	600	600	0
7/25/2024 22:39	55103	WERT_T1	1	1	0	3.7	4.7	1	0	0	0	0	0	0	0	0
7/25/2024 22:39	40101	HUNT_T2	0	0	0	0	0	0	-1.03	-1.07	0	0	0	0	0	0
7/25/2024 22:39	53601	DALM_T2	1	1	0	0.1	0.1	0	-0.3	-0.3	1	1	0	900	900	0
7/25/2024 22:39	42902	MIDD_T2	0	0	0	0	0	0	-1.62	-1.52	2	2	0	1200	1200	0
7/25/2024 22:39	47502	NECO_T1	1	1	0	0.4	0.5	0.1	0.81	0.8	0	0	0	0	0	0
7/25/2024 22:39	12701	MACU_T1	0	0	0	0	0	0	-0.99	-1.01	1	1	0	1200	1200	0
7/25/2024 22:39	47401	PENS_T1	0	0	0	0	0	0	1.36	1.32	0	0	0	0	0	0
7/25/2024 22:39	55101	WERT_T1	0	0	0	0	0	0	-3.61	-3.68	6	6	0	4800	4800	0
7/25/2024 22:39	67602	WARW_T2	0	0	0	0	0	0	0.76	0.74	2	2	0	1500	1500	0
7/25/2024 22:39	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:39	45402	WBLO_T2	102	41	-61	0.41	0.32	-0.09	-0.39	-0.44	0	0	0	0	0	0
7/25/2024 22:39	43108	SMIL_T2	0	0	0	0	0	0	-1.13	-1.14	1	1	0	1200	1200	0
7/25/2024 22:39	52002	LING_T2	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
7/25/2024 22:39	52004	LING_T2	2	2	0	5.35	5.7	0.35	0	0	0	0	0	0	0	0
7/25/2024 22:40	44301	BEAV_T2	0	0	0	0	0	0	-0.24	-0.35	1	1	0	600	600	0
7/25/2024 22:40	12605	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/25/2024 22:40	25603	ARRO_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
7/25/2024 22:40	40101	HUNT_T2	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
7/25/2024 22:40	46506	LOHA_T1	384	46	-338	0.43	0.12	-0.31	-1.93	-1.95	2	2	0	2100	2100	0
7/25/2024 22:40	46504	LOHA_T1	2	0	-2	0.75	0	-0.75	0	0	0	0	0	0	0	0
7/25/2024 22:40	42903	MIDD_T2	2	2	0	0.8	0.6	-0.2	-1.16	-1.21	1	1	0	1200	1200	0
7/25/2024 22:40	55001	NEWP_T1	0	0	0	0	0	0	-0.72	-0.75	1	1	0	600	600	0
7/25/2024 22:40	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:40	55002	NEWP_T1	2	3	1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
7/25/2024 22:41	46506	LOHA_T1	384	46	-338	0.43	0.12	-0.31	-1.93	-1.95	2	2	0	2100	2100	0
7/25/2024 22:41	46504	LOHA_T1	2	0	-2	0.75	0	-0.75	0	0	0	0	0	0	0	0
7/25/2024 22:41	44301	BEAV_T2	0	0	0	0	0	0	-0.24	-0.35	1	1	0	600	600	0
7/25/2024 22:41	47401	PENS_T1	0	0	0	0	0	0	1.36	1.32	0	0	0	0	0	0
7/25/2024 22:41	65004	NEFF_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
7/25/2024 22:41	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:41	43102	SMIL_T2	5	6	1	0.18	0.25	0.07	-1.87	-1.91	3	3	0	1800	1800	0
7/25/2024 22:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2024 22:42	41901	REED_T1	9	9	0	0.49	0.36	-0.13	0	0	0	0	0	0	0	0
7/25/2024 22:42	44301	BEAV_T2	0	0	0	0	0	0	-0.24	-0.35	1	1	0	600	600	0
7/25/2024 22:42	41902	REED_T1	0	0	0	0	0	0	0.31	0.29	1	1	0	900	900	0
7/25/2024 22:42	40502	CRES_T2	3	11	8	0.13	0.22	0.09	-0.68	-0.71	0	0	0	0	0	0
7/25/2024 22:42	53501	EVIL_T2	2	1	-1	0.3	0.9	0.6	-0.85	-0.86	2	2	0	1200	1200	0
7/25/2024 22:43	45501	DERR_T2	0	0	0	0	0	0	0.22	0.21	2	2	0	1800	1800	0
7/25/2024 22:43	64101	REFR_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
7/25/2024 22:43	52004	LING_T2	2	2	0	5.35	5.7	0.35	0	0	0	0	0	0	0	0
7/25/2024 22:43	46206	DANV_T2	0	0	0	0	0	0	2.09	2.01	2	2	0	2100	2100	0
7/25/2024 22:43	52002	LING_T2	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
7/25/2024 22:45	52401	GRPA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
7/25/2024 22:45	52402	GRPA_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/25/2024 22:45	52403	GRPA_T2	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
7/25/2024 23:23	11205	ELHE_T1	0	0	0	0	0	0	-0.5	-0.49	1	1	0	1200	1200	0
7/25/2024 23:41	61102	BERK_T5	0	0	0	0	0	0	0.27	0.16	1	1	0	300	300	0
7/26/2024 0:08	65603	QVIL_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
7/26/2024 0:17	53901	HALI_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
7/26/2024 0:17	53903	HALI_T2	2	2	0	1.1	1.3	0.2	-0.01	-0.02	0	0	0	0	0	0
7/26/2024 0:17	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
7/26/2024 0:47	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 6:49	24201	PROV_T3	1	1	0	6.6	6.6	0	-1.3	-1.29	1	1	0	1200	1200	0
7/26/2024 6:49	24204	PROV_T3	1	1	0	6	6.4	0.4	0	0	0	0	0	0	0	0
7/26/2024 6:52	24902	WHHA_T1	1	1	0	1.1	1.4	0.3	0.71	0.75	0	0	0	0	0	0
7/26/2024 6:52	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 6:54	67605	WARW_T1	18	23	5	0.61	0.63	0.02	-1.01	-0.99	0	0	0	0	0	0
7/26/2024 6:56	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
7/26/2024 6:56	29401	BELT_T1	0	0	0	0	0	0	0	1	1	1	0	900	900	0
7/26/2024 7:07	67804	WLAN_T1	0	0	0	0	0	0	-1.05	-1.03	0	0	0	0	0	0
7/26/2024 7:11	67804	WLAN_T1	0	0	0	0	0	0	-1.05	-1.03	0	0	0	0	0	0
7/26/2024 7:17	46504	LOHA_T1	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/26/2024 7:17	46506	LOHA_T1	631	768	137	0.45	0.82	0.37	-2.1	-2.1	2	2	0	2100	2100	0
7/26/2024 7:20	57601	RUTH_T2	0	0	0	0	0	0	-1.16	-1.11	1	1	0	900	900	0
7/26/2024 7:23	14601	SWHI_T1	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
7/26/2024 7:30	24702	FLND_T2	0	1	1	0	0.2	0.2	0.54	0.27	2	2	0	2400	2400	0
7/26/2024 7:39	14802	TREI_T2	0	7	7	0	0.1	0.1	0.51	0.53	0	0	0	0	0	0
7/26/2024 7:39	14801	TREI_T2	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
7/26/2024 7:40	53601	DALM_T2	1	1	0	0.8	0.6	-0.2	-0.32	-0.25	1	1	0	900	900	0
7/26/2024 7:44	14802	TREI_T2	0	7	7	0	0.1	0.1	0.51	0.53	0	0	0	0	0	0
7/26/2024 7:44	14801	TREI_T2	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
7/26/2024 7:45	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 7:45	64904	MILL_T1	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
7/26/2024 7:47	42002	MNVL_T2	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
7/26/2024 7:47	42001	MNVL_T2	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
7/26/2024 7:49	24204	PROV_T3	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
7/26/2024 7:49	24201	PROV_T3	1	1	0	6.3	6.3	0	-1.23	-1.21	1	1	0	1200	1200	0
7/26/2024 7:50	42002	MNVL_T2	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
7/26/2024 7:50	42001	MNVL_T2	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
7/26/2024 7:50	46102	MACI_T1	0	0	0	0	0	0	0.66	0.81	0	0	0	0	0	0
7/26/2024 7:52	58006	WCAR_T2	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
7/26/2024 7:54	67804	WLAN_T1	0	0	0	0	0	0	-1.01	-0.99	0	0	0	0	0	0
7/26/2024 7:55	22003	BOHE_T1	13	5	-8	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
7/26/2024 7:55	22002	BOHE_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
7/26/2024 7:57	42501	ALTA_T2	0	0	0	0	0	0	-1.08	-1.11	1	1	0	600	600	0
7/26/2024 8:03	17002	RIRO_T2	0	17	17	0	0.19	0.19	0.7	0.72	0	0	0	0	0	0
7/26/2024 8:03	63501	HEID_TBK1-2	0	1	1	0	0.3	0.3	0.7	0.91	0	0	0	0	0	0
7/26/2024 8:03	63602	LETO_T1	2	0	-2	0.1	0	-0.1	-1.62	-1.63	2	2	0	1200	1200	0
7/26/2024 8:05	46302	ROHR_T1	4	4	0	1.88	2.3	0.42	0.18	0.19	0	0	0	0	0	0
7/26/2024 8:05	67002	STHI_T2	0	0	0	0	0	0	0.78	0.8	0	0	0	0	0	0
7/26/2024 8:07	65601	QVIL_T2	6	7	1	0.1	0.11	0.01	0.17	0.33	0	0	0	0	0	0
7/26/2024 8:07	65603	QVIL_T2	2	2	0	0.15	0.15	0	0.76	0.81	0	0	0	0	0	0
7/26/2024 8:07	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/26/2024 8:08	65603	QVIL_T2	2	2	0	0.15	0.15	0	1.51	1.61	0	0	0	0	0	0
7/26/2024 8:08	65601	QVIL_T2	6	7	1	0.1	0.11	0.01	0	0	0	0	0	0	0	0
7/26/2024 8:08	46302	ROHR_T1	4	4	0	1.88	2.3	0.42	0.19	0.19	0	0	0	0	0	0
7/26/2024 8:08	67002	STHI_T2	0	0	0	0	0	0	0.8	0.81	0	0	0	0	0	0
7/26/2024 8:08	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/26/2024 8:09	43202	MVIL_T2	1	43	42	0.1	0.25	0.15	-0.6	-0.59	0	0	0	0	0	0
7/26/2024 8:10	29402	BELT_T1	1	1	0	8.5	8.8	0.3	0	0	0	0	0	0	0	0
7/26/2024 8:10	29401	BELT_T1	2	15	13	0.1	0.11	0.01	0	0	1	0	-1	900	0	-900
7/26/2024 8:12	51604	DUKE_T2	0	0	0	0	0	0	-0.24	-0.18	0	0	0	0	0	0
7/26/2024 8:14	45501	DERR_T2	1	0	-1	0.6	0	-0.6	0.47	0.56	2	2	0	1800	1800	0
7/26/2024 8:14	45502	DERR_T2	2	3	1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/26/2024 8:15	51604	DUKE_T2	0	0	0	0	0	0	-0.24	-0.18	0	0	0	0	0	0
7/26/2024 8:16	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 8:16	25402	LAHA_T2	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
7/26/2024 8:17	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 8:17	46102	MACI_T1	0	0	0	0	0	0	0.81	0.81	0	0	0	0	0	0
7/26/2024 8:17	58401	MORO_T1	0	0	0	0	0	0	-0.87	-0.86	1	1	0	600	600	0
7/26/2024 8:18	58402	MORO_T1	0	0	0	0	0	0	-0.74	-0.71	3	3	0	2400	2400	0
7/26/2024 8:19	14201	EALL_T1	0	0	0	0	0	0	0.69	0.7	0	0	0	0	0	0
7/26/2024 8:20	54201	PENN_T1	12	7	-5	0.54	0.83	0.29	0	0	0	0	0	0	0	0
7/26/2024 8:20	54203	PENN_T1	18	18	0	0.77	0.81	0.04	0.4	0.45	0	0	0	0	0	0
7/26/2024 8:22	67803	WLAN_T1	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
7/26/2024 8:23	67801	WLAN_T1	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
7/26/2024 8:23	58006	WCAR_T2	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
7/26/2024 8:24	45502	DERR_T2	2	4	2	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/26/2024 8:24	45501	DERR_T2	0	0	0	0	0	0	0.56	0.55	2	2	0	1800	1800	0
7/26/2024 8:25	24902	WHHA_T1	1	1	0	0.2	0.5	0.3	0.79	0.8	0	0	0	0	0	0
7/26/2024 8:25	24901	WHHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/26/2024 8:26	67804	WLAN_T1	0	0	0	0	0	0	-0.98	-0.96	0	0	0	0	0	0
7/26/2024 8:26	67805	WLAN_T1	0	0	0	0	0	0	-0.83	-0.78	0	0	0	0	0	0
7/26/2024 8:27	40801	EXCH_T2	0	2	2	0	0.1	0.1	-0.26	-0.17	1	1	0	1200	1200	0
7/26/2024 8:27	40802	EXCH_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
7/26/2024 8:29	44801	EDAN_T2	53	57	4	0.44	0.43	-0.01	-1.57	-1.45	0	0	0	0	0	0
7/26/2024 8:30	44801	EDAN_T2	49	55	6	0.44	0.4	-0.04	-1.57	-1.45	0	0	0	0	0	0
7/26/2024 8:32	16902	MECK_T1	0	1	1	0	0.2	0.2	0.09	0.1	0	0	0	0	0	0
7/26/2024 8:34	56501	ROCK_T2	2	4	2	0.8	0.57	-0.23	-1.09	-1.08	0	0	0	0	0	0
7/26/2024 8:35	56501	ROCK_T2	2	4	2	0.8	0.57	-0.23	-1.09	-1.08	0	0	0	0	0	0
7/26/2024 8:36	65901	SAKR_T2	1	2	1	8.2	8.2	0	0	0	0	0	0	0	0	0
7/26/2024 8:36	65904	SAKR_T2	0	0	0	0	0	0	-1.62	-1.62	3	3	0	1500	1500	0
7/26/2024 8:36	56501	ROCK_T2	2	4	2	0.8	0.57	-0.23	-1.09	-1.08	0	0	0	0	0	0
7/26/2024 8:37	59101	WALK_T2	1	1	0	5.1	0.4	-4.7	1.72	1.8	0	0	0	0	0	0
7/26/2024 8:37	15703	TANN_T2	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
7/26/2024 8:37	15702	TANN_T2	0	0	0	0	0	0	-0.32	-0.19	0	0	0	0	0	0
7/26/2024 8:39	58006	WCAR_T2	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
7/26/2024 8:40	45602	WOOL_T1	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
7/26/2024 8:41	45502	DERR_T2	2	7	5	0.2	0.2	0	0.28	0.28	1	1	0	300	300	0
7/26/2024 8:41	27005	BELL_T1	0	2	2	0	0.1	0.1	-1.66	-1.62	0	0	0	0	0	0
7/26/2024 8:41	59101	WALK_T2	1	1	0	5.1	0.4	-4.7	1.72	1.8	0	0	0	0	0	0
7/26/2024 8:43	46801	HEPB_T2	2	2	0	0.5	0.85	0.35	0	0	0	0	0	0	0	0
7/26/2024 8:43	46803	HEPB_T2	0	2	2	0	0.1	0.1	0.54	0.54	0	0	0	0	0	0
7/26/2024 8:49	15601	NSTR_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
7/26/2024 8:49	15603	NSTR_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
7/26/2024 8:50	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 8:50	57401	SPAN_T1	0	0	0	0	0	0	-0.64	-0.59	1	1	0	600	600	0
7/26/2024 8:52	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 8:52	41902	REED_T1	0	0	0	0	0	0	1.19	1.19	0	0	0	0	0	0
7/26/2024 8:52	57401	SPAN_T1	0	0	0	0	0	0	-1.17	-1.24	2	2	0	1200	1200	0
7/26/2024 8:53	41902	REED_T1	0	0	0	0	0	0	1.19	1.19	0	0	0	0	0	0
7/26/2024 8:53	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 8:53	57401	SPAN_T1	0	0	0	0	0	0	-0.59	-0.62	1	1	0	600	600	0
7/26/2024 8:54	57401	SPAN_T1	0	0	0	0	0	0	-0.59	-0.62	1	1	0	600	600	0
7/26/2024 8:54	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 8:54	20403	ASHF_T2	0	0	0	0	0	0	0.96	0.89	0	0	0	0	0	0
7/26/2024 8:54	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 8:54	20401	ASHF_T2	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
7/26/2024 8:57	20403	ASHF_T2	0	0	0	0	0	0	0.96	0.89	0	0	0	0	0	0
7/26/2024 8:57	20401	ASHF_T2	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
7/26/2024 8:57	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 8:59	57401	SPAN_T1	0	0	0	0	0	0	-0.59	-0.62	1	1	0	600	600	0
7/26/2024 8:59	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 8:59	29402	BELT_T1	1	232	231	0.2	0.66	0.46	0	0	0	0	0	0	0	0
7/26/2024 9:02	42001	MNVL_T2	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
7/26/2024 9:02	42002	MNVL_T2	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
7/26/2024 9:04	51702	OBER_T1	2	5	3	3.25	1.6	-1.65	-0.93	-0.92	1	1	0	600	600	0
7/26/2024 9:05	58402	MORO_T1	0	0	0	0	0	0	-0.53	-0.52	3	3	0	2400	2400	0
7/26/2024 9:06	51702	OBER_T1	2	5	3	3.25	1.6	-1.65	-0.93	-0.92	1	1	0	600	600	0
7/26/2024 9:07	14402	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/26/2024 9:07	24902	WHHA_T1	1	3	2	0.4	0.4	0	0.81	0.82	0	0	0	0	0	0
7/26/2024 9:07	14404	SSLA_T1	1	1	0	5.7	5.6	-0.1	0.12	0.13	0	0	0	0	0	0
7/26/2024 9:08	14402	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/26/2024 9:08	67602	WARW_T2	0	0	0	0	0	0	0.84	0.85	2	2	0	1500	1500	0
7/26/2024 9:08	67605	WARW_T1	5	2	-3	0.2	0.15	-0.05	-0.87	-0.86	0	0	0	0	0	0
7/26/2024 9:08	14404	SSLA_T1	1	1	0	5.7	5.6	-0.1	0.12	0.13	0	0	0	0	0	0
7/26/2024 9:09	67602	WARW_T2	0	0	0	0	0	0	0.84	0.85	2	2	0	1500	1500	0
7/26/2024 9:10	67602	WARW_T2	0	0	0	0	0	0	0.84	0.85	2	2	0	1500	1500	0
7/26/2024 9:12	45902	AUBU_T1	0	0	0	0	0	0	-0.65	-0.67	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/26/2024 9:13	16402	MOPO_T1	0	2	2	0	0.5	0.5	0.27	0.28	0	0	0	0	0	0
7/26/2024 9:13	22002	BOHE_T1	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
7/26/2024 9:13	22003	BOHE_T1	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
7/26/2024 9:17	16402	MOPO_T1	1	6	5	0.7	0	-0.7	0.27	0.28	0	0	0	0	0	0
7/26/2024 9:22	13303	ORVI_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
7/26/2024 9:25	20401	ASHF_T2	3	5	2	0.4	0.93	0.53	0	0	0	0	0	0	0	0
7/26/2024 9:25	20403	ASHF_T2	0	1	1	0	0.5	0.5	0.89	0.92	0	0	0	0	0	0
7/26/2024 9:26	20401	ASHF_T2	3	5	2	0.4	0.93	0.53	0	0	0	0	0	0	0	0
7/26/2024 9:26	20403	ASHF_T2	0	1	1	0	0.5	0.5	0.89	0.92	0	0	0	0	0	0
7/26/2024 9:27	11102	EGYP_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
7/26/2024 9:27	11104	EGYP_T1	0	0	0	0	0	0	0.83	0.85	0	0	0	0	0	0
7/26/2024 9:28	11104	EGYP_T1	0	0	0	0	0	0	0.83	0.85	0	0	0	0	0	0
7/26/2024 9:28	11102	EGYP_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
7/26/2024 9:31	13503	MCMI_T2	1	2	1	0.2	0.5	0.3	0.08	0.09	0	0	0	0	0	0
7/26/2024 9:33	48302	ORWI_T2	1	2	1	0.1	0.35	0.25	-0.37	-0.38	0	0	0	0	0	0
7/26/2024 9:33	64101	REFR_T1	0	0	0	0	0	0	0.3	0.1	0	0	0	0	0	0
7/26/2024 9:34	16901	MECK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/26/2024 9:34	64101	REFR_T1	0	0	0	0	0	0	0.6	0.21	0	0	0	0	0	0
7/26/2024 9:34	16902	MECK_T1	1	1	0	0.3	0.5	0.2	0.11	0.12	0	0	0	0	0	0
7/26/2024 9:35	64101	REFR_T1	0	0	0	0	0	0	0.6	0.21	0	0	0	0	0	0
7/26/2024 9:37	64101	REFR_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
7/26/2024 9:38	45902	AUBU_T1	0	0	0	0	0	0	-0.66	-0.65	1	1	0	600	600	0
7/26/2024 9:38	64101	REFR_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
7/26/2024 9:42	64602	LEOL_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
7/26/2024 9:42	48302	ORWI_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
7/26/2024 9:43	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 9:49	65802	RTWN_T2	0	0	0	0	0	0	0.07	0.21	0	0	0	0	0	0
7/26/2024 9:49	40603	PIGR_T1	0	1	1	0	0.1	0.1	0.49	0.52	0	0	0	0	0	0
7/26/2024 9:49	40602	PIGR_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
7/26/2024 9:52	65604	QVIL_T2	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
7/26/2024 9:52	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/26/2024 9:53	65802	RTWN_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
7/26/2024 9:56	44802	EDAN_T2	0	0	0	0	0	0	-0.94	-0.78	0	0	0	0	0	0
7/26/2024 9:56	44801	EDAN_T2	88	102	14	0.51	0.53	0.02	0	0	0	0	0	0	0	0
7/26/2024 9:58	44801	EDAN_T2	88	102	14	0.51	0.53	0.02	0	0	0	0	0	0	0	0
7/26/2024 9:58	44802	EDAN_T2	0	0	0	0	0	0	-0.47	-0.39	0	0	0	0	0	0
7/26/2024 9:59	44802	EDAN_T2	0	0	0	0	0	0	-0.47	-0.39	0	0	0	0	0	0
7/26/2024 9:59	44801	EDAN_T2	88	102	14	0.51	0.53	0.02	0	0	0	0	0	0	0	0
7/26/2024 10:00	40505	CRES_T1	3	3	0	3.93	3.5	-0.43	0.55	0.56	0	0	0	0	0	0
7/26/2024 10:00	44802	EDAN_T2	0	0	0	0	0	0	-0.47	-0.39	0	0	0	0	0	0
7/26/2024 10:00	65603	QVIL_T2	0	0	0	0	0	0	2.13	2.55	0	0	0	0	0	0
7/26/2024 10:00	54203	PENN_T1	5	5	0	0.42	0.42	0	0.64	0.63	0	0	0	0	0	0
7/26/2024 10:00	65601	QVIL_T2	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
7/26/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
7/26/2024 10:00	16605	PONO_T1	0	0	0	0	0	0	0	0.06	1	1	0	1200	1200	0
7/26/2024 10:00	56501	ROCK_T2	3	1	-2	0.13	0.2	0.07	-3.85	-3.72	0	0	0	0	0	0
7/26/2024 10:00	60801	BUCK_T1	3	2	-1	0.23	0.4	0.17	0.25	0.27	0	0	0	0	0	0
7/26/2024 10:00	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/26/2024 10:00	65604	QVIL_T2	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
7/26/2024 10:00	57401	SPAN_T1	0	0	0	0	0	0	-0.59	-0.56	1	1	0	600	600	0
7/26/2024 10:00	65602	QVIL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/26/2024 10:00	44801	EDAN_T2	100	86	-14	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
7/26/2024 10:00	65901	SAKR_T2	1	1	0	8	8	0	0	0	0	0	0	0	0	0
7/26/2024 10:00	60803	BUCK_T1	13	11	-2	0.43	0.53	0.1	0	0	0	0	0	0	0	0
7/26/2024 10:00	54201	PENN_T1	3	3	0	1	0.97	-0.03	0	0	0	0	0	0	0	0
7/26/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
7/26/2024 10:00	65904	SAKR_T2	0	0	0	0	0	0	-1.53	-1.52	3	3	0	1500	1500	0
7/26/2024 10:01	44801	EDAN_T2	100	86	-14	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
7/26/2024 10:01	44802	EDAN_T2	0	0	0	0	0	0	-0.47	-0.39	0	0	0	0	0	0
7/26/2024 10:07	67503	WEWI_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
7/26/2024 10:07	67502	WEWI_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/26/2024 10:08	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/26/2024 10:08	54001	SDLE_T1	3	3	0	0.6	0.67	0.07	0	0	2	2	0	1200	1200	0
7/26/2024 10:08	58006	WCAR_T2	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
7/26/2024 10:08	56501	ROCK_T2	3	1	-2	0.13	0.2	0.07	-1.86	-1.79	0	0	0	0	0	0
7/26/2024 10:08	64101	REFR_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
7/26/2024 10:09	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 10:09	54001	SDLE_T1	3	3	0	0.6	0.67	0.07	0	0	1	1	0	600	600	0
7/26/2024 10:09	45902	AUBU_T1	0	0	0	0	0	0	-0.64	-0.66	1	1	0	600	600	0
7/26/2024 10:10	20403	ASHF_T2	3	2	-1	0.43	0.6	0.17	0.99	0.98	0	0	0	0	0	0
7/26/2024 10:10	20401	ASHF_T2	6	4	-2	0.35	0.43	0.08	0	0	0	0	0	0	0	0
7/26/2024 10:10	67803	WLAN_T1	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
7/26/2024 10:11	20403	ASHF_T2	3	2	-1	0.43	0.6	0.17	0.99	0.98	0	0	0	0	0	0
7/26/2024 10:11	29402	BELT_T1	197	119	-78	0.55	0.57	0.02	0	0	0	0	0	0	0	0
7/26/2024 10:11	24901	WHHA_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
7/26/2024 10:11	20401	ASHF_T2	6	4	-2	0.35	0.43	0.08	0	0	0	0	0	0	0	0
7/26/2024 10:11	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/26/2024 10:11	16102	BING_T2	0	0	0	0	0	0	0.85	0.91	0	0	0	0	0	0
7/26/2024 10:11	16103	BING_T2	0	0	0	0	0	0	-0.55	-0.73	0	1	1	0	600	600
7/26/2024 10:11	24902	WHHA_T1	1	1	0	0.1	0	-0.1	1.68	1.69	0	0	0	0	0	0
7/26/2024 10:12	26704	HEML_T2	0	0	0	0	0	0	-0.68	-0.67	1	1	0	1200	1200	0
7/26/2024 10:12	10801	CHHI_T1	54	11	-43	0.31	0.72	0.41	-1.52	-1.48	3	3	0	2100	2100	0
7/26/2024 10:12	53502	EVIL_T2	1	2	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/26/2024 10:12	44801	EDAN_T2	100	86	-14	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
7/26/2024 10:12	53501	EVIL_T2	0	1	1	0	0.4	0.4	-0.09	-0.11	2	2	0	1200	1200	0
7/26/2024 10:12	44802	EDAN_T2	0	0	0	0	0	0	-0.39	-0.46	0	0	0	0	0	0
7/26/2024 10:12	53601	DALM_T2	1	1	0	0.6	0.5	-0.1	-0.42	-0.4	1	1	0	900	900	0
7/26/2024 10:13	53501	EVIL_T2	0	1	1	0	0.4	0.4	-0.09	-0.11	2	2	0	1200	1200	0
7/26/2024 10:13	53502	EVIL_T2	1	2	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/26/2024 10:13	16103	BING_T2	0	0	0	0	0	0	-0.55	-0.73	0	1	1	0	600	600
7/26/2024 10:13	48302	ORWI_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
7/26/2024 10:14	29402	BELT_T1	197	119	-78	0.55	0.57	0.02	0	0	0	0	0	0	0	0
7/26/2024 10:14	44801	EDAN_T2	100	86	-14	0.53	0.46	-0.07	-1.31	-1.37	0	0	0	0	0	0
7/26/2024 10:14	44802	EDAN_T2	0	0	0	0	0	0	-0.78	-0.92	0	0	0	0	0	0
7/26/2024 10:14	26402	INOR_T1	0	0	0	0	0	0	-1.62	-1.56	1	1	0	600	600	0
7/26/2024 10:14	16402	MOPO_T1	3	5	2	0.93	0.9	-0.03	0.34	0.35	0	0	0	0	0	0
7/26/2024 10:14	45502	DERR_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/26/2024 10:14	45501	DERR_T2	0	0	0	0	0	0	0.69	0.66	2	2	0	1800	1800	0
7/26/2024 10:14	53502	EVIL_T2	1	2	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/26/2024 10:14	26401	INOR_T1	1	4	3	5.6	2.05	-3.55	0	0	0	0	0	0	0	0
7/26/2024 10:14	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/26/2024 10:14	53501	EVIL_T2	0	1	1	0	0.4	0.4	-0.09	-0.11	2	2	0	1200	1200	0
7/26/2024 10:15	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 10:15	16402	MOPO_T1	3	6	3	1.33	0.54	-0.79	0.34	0.35	0	0	0	0	0	0
7/26/2024 10:15	45501	DERR_T2	0	0	0	0	0	0	0.69	0.66	2	2	0	1800	1800	0
7/26/2024 10:15	48901	FOSP_T2	0	0	0	0	0	0	-0.08	-0.11	1	1	0	600	600	0
7/26/2024 10:15	53502	EVIL_T2	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/26/2024 10:15	25402	LAHA_T2	1	2	1	0.8	0.65	-0.15	-0.42	-0.37	0	0	0	0	0	0
7/26/2024 10:15	44801	EDAN_T2	86	75	-11	0.42	0.49	0.07	-1.31	-1.37	0	0	0	0	0	0
7/26/2024 10:15	45502	DERR_T2	2	1	-1	0.25	0.2	-0.05	0.27	0.26	1	1	0	300	300	0
7/26/2024 10:15	53501	EVIL_T2	0	2	2	0	0.3	0.3	-0.09	-0.11	2	2	0	1200	1200	0
7/26/2024 10:15	29402	BELT_T1	117	93	-24	0.58	0.57	-0.01	0	0	0	0	0	0	0	0
7/26/2024 10:16	52403	GRPA_T2	1	4	3	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/26/2024 10:16	52404	GRPA_T2	0	0	0	0	0	0	0.73	0.76	0	0	0	0	0	0
7/26/2024 10:16	53501	EVIL_T2	0	2	2	0	0.3	0.3	-0.09	-0.11	2	2	0	1200	1200	0
7/26/2024 10:16	57401	SPAN_T1	0	0	0	0	0	0	-1.12	-1.1	2	2	0	1200	1200	0
7/26/2024 10:16	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 10:16	53502	EVIL_T2	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/26/2024 10:17	44801	EDAN_T2	86	75	-11	0.42	0.49	0.07	0	0	0	0	0	0	0	0
7/26/2024 10:17	64305	LINC_T1	0	1	1	0	0	0	0.3	0.4	0	0	0	0	0	0
7/26/2024 10:17	44802	EDAN_T2	0	0	0	0	0	0	-0.39	-0.46	0	0	0	0	0	0
7/26/2024 10:18	65004	NEFF_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
7/26/2024 10:18	52403	GRPA_T2	1	4	3	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/26/2024 10:18	65003	NEFF_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/26/2024 10:18	52404	GRPA_T2	0	0	0	0	0	0	0.73	0.76	0	0	0	0	0	0
7/26/2024 10:18	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 10:19	25503	MADI_T1	18	5	-13	0.2	0.28	0.08	-0.78	-0.77	0	0	0	0	0	0
7/26/2024 10:19	65003	NEFF_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/26/2024 10:19	25501	MADI_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/26/2024 10:19	57401	SPAN_T1	0	0	0	0	0	0	-0.56	-0.55	1	1	0	600	600	0
7/26/2024 10:19	25502	MADI_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
7/26/2024 10:19	65001	NEFF_T2	0	0	0	0	0	0	-0.19	-0.21	1	1	0	1200	1200	0
7/26/2024 10:20	43103	SMIL_T2	4	1	-3	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
7/26/2024 10:20	64802	MONE_T2	0	1	1	0	0.5	0.5	0.5	0.51	0	0	0	0	0	0
7/26/2024 10:20	42801	SELI_T1	0	0	0	0	0	0	-0.66	-0.59	1	1	0	1200	1200	0
7/26/2024 10:20	43105	SMIL_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
7/26/2024 10:20	64801	MONE_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/26/2024 10:20	43101	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/26/2024 10:20	43106	SMIL_T2	0	0	0	0	0	0	-1.06	-1.05	2	2	0	2400	2400	0
7/26/2024 10:20	43102	SMIL_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/26/2024 10:21	41902	REED_T1	0	0	0	0	0	0	1.2	1.23	0	0	0	0	0	0
7/26/2024 10:21	52004	LING_T2	3	6	3	3.83	2.22	-1.61	0.45	0.46	0	0	0	0	0	0
7/26/2024 10:21	40602	PIGR_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
7/26/2024 10:21	23002	SAJO_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
7/26/2024 10:21	40603	PIGR_T1	0	1	1	0	0.1	0.1	0.55	0.58	0	0	0	0	0	0
7/26/2024 10:21	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/26/2024 10:21	48302	ORWI_T2	2	1	-1	0.3	0.4	0.1	-0.38	-0.36	0	0	0	0	0	0
7/26/2024 10:21	23001	SAJO_T1	0	1	1	0	0	0	0.27	0.21	0	0	0	0	0	0
7/26/2024 10:22	46301	ROHR_T1	65	49	-16	0.23	0.23	0	0.31	0.32	0	0	0	0	0	0
7/26/2024 10:22	46302	ROHR_T1	5	4	-1	1.74	2.2	0.46	0	0	0	0	0	0	0	0
7/26/2024 10:22	23002	SAJO_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
7/26/2024 10:22	23001	SAJO_T1	0	1	1	0	0	0	0.21	0.21	0	0	0	0	0	0
7/26/2024 10:23	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 10:23	41902	REED_T1	0	0	0	0	0	0	1.23	1.26	0	0	0	0	0	0
7/26/2024 10:26	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/26/2024 10:26	20401	ASHF_T2	4	5	1	0.43	0.8	0.37	0	0	0	0	0	0	0	0
7/26/2024 10:26	20403	ASHF_T2	2	1	-1	0.6	0.9	0.3	0.98	1.04	0	0	0	0	0	0
7/26/2024 10:27	53902	HALI_T2	2	3	1	2.65	1.83	-0.82	-0.64	-0.63	0	0	0	0	0	0
7/26/2024 10:27	53903	HALI_T2	2	7	5	1	0.43	-0.57	0	0	0	0	0	0	0	0
7/26/2024 10:27	67605	WARW_T1	0	1	1	0	0.3	0.3	-0.8	-0.79	0	0	0	0	0	0
7/26/2024 10:27	67602	WARW_T2	0	0	0	0	0	0	0.95	0.95	2	2	0	1500	1500	0
7/26/2024 10:28	21204	ECAR_T2	1	1	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
7/26/2024 10:28	21206	ECAR_T2	8	7	-1	1.88	7.8	5.92	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/26/2024 10:28	61301	EARL_T1	0	0	0	0	0	0	-0.64	-0.65	1	1	0	900	900	0
7/26/2024 10:29	46506	LOHA_T1	382	188	-194	0.43	0.24	-0.19	-1.98	-1.96	2	2	0	2100	2100	0
7/26/2024 10:30	64204	KINZ_T1	839	1	-838	4.41	0.3	-4.11	0	0	0	0	0	0	0	0
7/26/2024 10:30	64203	KINZ_T1	16	1	-15	0.64	0	-0.64	1.17	1.16	2	2	0	900	900	0
7/26/2024 10:30	64201	KINZ_T1	121	0	-121	0.44	0	-0.44	0	0	0	0	0	0	0	0
7/26/2024 10:30	64202	KINZ_T1	8	0	-8	0.65	0	-0.65	0	0	0	0	0	0	0	0
7/26/2024 10:30	46506	LOHA_T1	148	184	36	0.21	0.24	0.03	-3.95	-3.92	4	4	0	4200	4200	0
7/26/2024 10:31	64201	KINZ_T1	121	0	-121	0.44	0	-0.44	-0.38	-0.53	8	6	-2	4200	3000	-1200
7/26/2024 10:31	64202	KINZ_T1	8	0	-8	0.65	0	-0.65	0	0	0	0	0	0	0	0
7/26/2024 10:31	64203	KINZ_T1	16	1	-15	0.64	0	-0.64	0	0	0	0	0	0	0	0
7/26/2024 10:31	46506	LOHA_T1	148	184	36	0.21	0.24	0.03	-1.98	-1.96	2	2	0	2100	2100	0
7/26/2024 10:31	64204	KINZ_T1	839	1	-838	4.41	0.3	-4.11	0	0	0	0	0	0	0	0
7/26/2024 10:32	46506	LOHA_T1	148	184	36	0.21	0.24	0.03	-1.98	-1.96	2	2	0	2100	2100	0
7/26/2024 10:33	47403	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/26/2024 10:33	47401	PENS_T1	4	3	-1	1.25	1.23	-0.02	0.2	0.24	0	0	0	0	0	0
7/26/2024 10:34	44203	POIN_T2	2	3	1	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
7/26/2024 10:34	43201	MVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/26/2024 10:34	44202	POIN_T2	0	1	1	0	0	0	-0.6	-0.6	1	1	0	1200	1200	0
7/26/2024 10:34	43202	MVIL_T2	68	82	14	0.38	0.45	0.07	-0.51	-0.5	0	0	0	0	0	0
7/26/2024 10:35	47401	PENS_T1	4	3	-1	1.25	1.23	-0.02	0.2	0.24	0	0	0	0	0	0
7/26/2024 10:35	47403	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/26/2024 10:36	43201	MVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/26/2024 10:36	43202	MVIL_T2	68	82	14	0.38	0.45	0.07	-0.5	-0.49	0	0	0	0	0	0
7/26/2024 10:37	67401	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/26/2024 10:37	67402	WAKE_T2	0	0	0	0	0	0	0.74	0.76	1	1	0	600	600	0
7/26/2024 10:38	48902	FOSP_T2	0	0	0	0	0	0	0.61	0.7	1	1	0	1200	1200	0
7/26/2024 10:38	20403	ASHF_T2	1	1	0	0.2	1	0.8	1.04	1.07	0	0	0	0	0	0
7/26/2024 10:38	20401	ASHF_T2	3	5	2	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
7/26/2024 10:38	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/26/2024 10:38	64101	REFR_T1	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
7/26/2024 10:39	20403	ASHF_T2	1	1	0	0.2	1	0.8	2.07	2.15	0	0	0	0	0	0
7/26/2024 10:39	20401	ASHF_T2	3	5	2	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
7/26/2024 10:39	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/26/2024 10:41	67602	WARW_T2	0	0	0	0	0	0	2.84	2.81	6	6	0	4500	4500	0
7/26/2024 10:41	45902	AUBU_T1	0	0	0	0	0	0	-1.8	-1.57	3	3	0	1800	1800	0
7/26/2024 10:42	60101	COCA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/26/2024 10:42	67602	WARW_T2	0	0	0	0	0	0	0.95	0.94	2	2	0	1500	1500	0
7/26/2024 10:43	60101	COCA_T1	0	1	1	0	0.4	0.4	1.29	1.34	0	0	0	0	0	0
7/26/2024 10:43	54504	ENOL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
7/26/2024 10:43	54506	ENOL_T2	0	0	0	0	0	0	0.02	0.11	1	1	0	600	600	0
7/26/2024 10:43	67602	WARW_T2	0	0	0	0	0	0	0.95	0.94	2	2	0	1500	1500	0
7/26/2024 10:45	63501	HEID_TBK1-2	65	22	-43	0.34	0.24	-0.1	0.17	0.07	1	1	0	900	900	0
7/26/2024 10:45	67602	WARW_T2	0	0	0	0	0	0	0.95	0.94	2	2	0	1500	1500	0
7/26/2024 10:45	53601	DALM_T2	0	1	1	0	0.4	0.4	-0.27	-0.24	1	1	0	900	900	0
7/26/2024 10:47	52004	LING_T2	6	5	-1	2.18	2.62	0.44	0.46	0.47	0	0	0	0	0	0
7/26/2024 10:47	63501	HEID_TBK1-2	65	22	-43	0.34	0.24	-0.1	0.17	0.07	1	1	0	900	900	0
7/26/2024 10:47	13502	MCMI_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/26/2024 10:48	15703	TANN_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
7/26/2024 10:48	15702	TANN_T2	0	0	0	0	0	0	-0.13	-0.07	0	0	0	0	0	0
7/26/2024 10:49	45702	LIND_T2	2	2	0	0.55	0.8	0.25	-1.46	-1.55	0	0	0	0	0	0
7/26/2024 10:50	13905	SEID_T1	0	1	1	0	0	0	-0.67	-0.52	1	1	0	1200	1200	0
7/26/2024 10:50	58402	MORO_T1	0	0	0	0	0	0	-0.55	-0.52	3	3	0	2400	2400	0
7/26/2024 10:52	13503	MCMI_T2	3	213	210	0.43	0.45	0.02	-0.82	-0.81	0	0	0	0	0	0
7/26/2024 10:53	64101	REFR_T1	0	0	0	0	0	0	0.17	0.2	0	0	0	0	0	0
7/26/2024 10:53	15702	TANN_T2	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
7/26/2024 10:53	15703	TANN_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
7/26/2024 10:54	15703	TANN_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
7/26/2024 10:54	15702	TANN_T2	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
7/26/2024 10:55	55101	WERT_T1	0	0	0	0	0	0	-3.73	-3.72	8	8	0	6600	6600	0
7/26/2024 10:55	55103	WERT_T1	1	1	0	4.7	5.1	0.4	0	0	0	0	0	0	0	0
7/26/2024 10:56	11104	EGYP_T1	0	5	5	0	0.68	0.68	1.93	1.97	0	0	0	0	0	0
7/26/2024 10:56	64101	REFR_T1	0	0	0	0	0	0	0.17	0.2	0	0	0	0	0	0
7/26/2024 10:56	11101	EGYP_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/26/2024 10:56	11102	EGYP_T1	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
7/26/2024 10:57	11101	EGYP_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/26/2024 10:57	58001	WCAR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/26/2024 10:57	11102	EGYP_T1	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
7/26/2024 10:57	11104	EGYP_T1	0	5	5	0	0.68	0.68	0.96	0.98	0	0	0	0	0	0
7/26/2024 10:57	58003	WCAR_T1	1	1	0	1.2	1.3	0.1	0.22	0.23	1	1	0	600	600	0
7/26/2024 10:59	10801	CHHI_T1	7	7	0	0.93	0.94	0.01	-1.31	-1.37	3	3	0	2100	2100	0
7/26/2024 11:01	52002	LING_T2	0	0	0	0	0	0	2.58	2.63	0	0	0	0	0	0
7/26/2024 11:01	52004	LING_T2	5	4	-1	2.62	3.25	0.63	0	0	0	0	0	0	0	0
7/26/2024 11:04	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/26/2024 11:04	52002	LING_T2	0	0	0	0	0	0	0.64	0.66	0	0	0	0	0	0
7/26/2024 11:04	52004	LING_T2	5	4	-1	2.62	3.25	0.63	0	0	0	0	0	0	0	0
7/26/2024 11:04	56501	ROCK_T2	1	2	1	0.5	0.3	-0.2	-0.83	-0.8	0	0	0	0	0	0
7/26/2024 11:06	57401	SPAN_T1	0	0	0	0	0	0	-0.41	-0.45	1	1	0	600	600	0
7/26/2024 11:06	57601	RUTH_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
7/26/2024 11:08	13503	MCMI_T2	202	223	21	0.43	0.55	0.12	-0.81	-0.81	0	0	0	0	0	0
7/26/2024 11:09	44302	BEAV_T2	3	6	3	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
7/26/2024 11:09	64101	REFR_T1	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
7/26/2024 11:09	44301	BEAV_T2	3	3	0	0.27	0.17	-0.1	-0.74	-0.68	2	2	0	1500	1500	0
7/26/2024 11:11	44302	BEAV_T2	3	6	3	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
7/26/2024 11:11	44301	BEAV_T2	3	3	0	0.27	0.17	-0.1	-0.74	-0.68	2	2	0	1500	1500	0
7/26/2024 11:12	44301	BEAV_T2	3	3	0	0.27	0.17	-0.1	-0.74	-0.68	2	2	0	1500	1500	0
7/26/2024 11:12	44302	BEAV_T2	3	6	3	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
7/26/2024 11:13	44301	BEAV_T2	3	3	0	0.27	0.17	-0.1	-1.48	-1.36	4	4	0	3000	3000	0
7/26/2024 11:13	44302	BEAV_T2	3	6	3	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
7/26/2024 11:14	29402	BELT_T1	53	25	-28	0.36	0.32	-0.04	0	0	0	0	0	0	0	0
7/26/2024 11:14	53601	DALM_T2	1	1	0	0.2	0.4	0.2	-0.29	-0.34	1	1	0	900	900	0
7/26/2024 11:14	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 11:15	41602	CLEV_T1	1	1	0	0.5	0.8	0.3	0	0	1	1	0	600	600	0
7/26/2024 11:15	40101	HUNT_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
7/26/2024 11:15	57401	SPAN_T1	0	0	0	0	0	0	-0.45	-0.44	1	1	0	600	600	0
7/26/2024 11:16	40101	HUNT_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
7/26/2024 11:17	41002	LAUR_T2	1	2	1	0.8	0.6	-0.2	0.36	0.37	0	0	0	0	0	0
7/26/2024 11:17	40101	HUNT_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
7/26/2024 11:17	41001	LAUR_T2	1	2	1	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
7/26/2024 11:18	13503	MCMI_T2	198	231	33	0.42	0.58	0.16	-0.81	-0.81	0	0	0	0	0	0
7/26/2024 11:26	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 11:26	10805	CHHI_T2	2	3	1	4.65	9.2	4.55	-0.42	-0.64	1	1	0	600	600	0
7/26/2024 11:29	53501	EVIL_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
7/26/2024 11:29	53502	EVIL_T2	0	0	0	0	0	0	0.03	0	2	2	0	1200	1200	0
7/26/2024 11:31	42301	MOWR_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 11:31	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 11:33	60201	ATGL_T2	0	0	0	0	0	0	0.83	0.79	0	0	0	0	0	0
7/26/2024 11:33	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 11:33	64203	KINZ_T1	0	1	1	0	0.3	0.3	1.4	1.52	2	2	0	900	900	0
7/26/2024 11:33	62602	ENGL_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
7/26/2024 11:33	64204	KINZ_T1	2	5	3	0.3	0.8	0.5	0	0	0	0	0	0	0	0
7/26/2024 11:33	42301	MOWR_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 11:34	13503	MCMI_T2	223	228	5	0.55	0.56	0.01	-0.81	-0.8	0	0	0	0	0	0
7/26/2024 11:34	64904	MILL_T1	0	0	0	0	0	0	0.06	0.09	0	0	0	0	0	0
7/26/2024 11:34	41902	REED_T1	0	2	2	0	0.1	0.1	1.2	1.26	0	0	0	0	0	0
7/26/2024 11:34	46503	LOHA_T1	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
7/26/2024 11:34	46506	LOHA_T1	7	37	30	0.49	0.23	-0.26	0	0	0	0	0	0	0	0
7/26/2024 11:35	47502	NECO_T1	1	2	1	0.2	0.15	-0.05	1.09	1.09	0	0	0	0	0	0
7/26/2024 11:36	57401	SPAN_T1	0	0	0	0	0	0	-0.44	-0.46	1	1	0	600	600	0
7/26/2024 11:36	41902	REED_T1	0	2	2	0	0.1	0.1	1.2	1.26	0	0	0	0	0	0
7/26/2024 11:36	47502	NECO_T1	1	2	1	0.2	0.15	-0.05	1.09	1.12	0	0	0	0	0	0
7/26/2024 11:41	42701	AUGU_T1	4	3	-1	0.3	0.4	0.1	0	0	2	2	0	1800	1800	0
7/26/2024 11:42	60803	BUCK_T1	12	15	3	0.43	0.53	0.1	-0.3	-0.29	1	1	0	600	600	0
7/26/2024 11:42	60801	BUCK_T1	4	4	0	0.28	0.38	0.1	0	0	0	0	0	0	0	0
7/26/2024 11:44	60803	BUCK_T1	12	15	3	0.43	0.53	0.1	-0.6	-0.59	2	2	0	1200	1200	0
7/26/2024 11:44	60801	BUCK_T1	4	4	0	0.28	0.38	0.1	0	0	0	0	0	0	0	0
7/26/2024 11:45	63501	HEID_TBK1-2	4	4	0	0.33	0.3	-0.03	0.28	0.24	1	1	0	900	900	0
7/26/2024 11:45	60801	BUCK_T1	2	12	10	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
7/26/2024 11:45	60803	BUCK_T1	14	14	0	0.41	0.66	0.25	-0.3	-0.29	1	1	0	600	600	0
7/26/2024 11:48	47802	MOCA_T2	1	1	0	0.3	0.2	-0.1	-0.57	-0.59	0	0	0	0	0	0
7/26/2024 11:48	63501	HEID_TBK1-2	4	4	0	0.33	0.3	-0.03	0.28	0.24	1	1	0	900	900	0
7/26/2024 11:49	64204	KINZ_T1	2	5	3	0.75	0.68	-0.07	0	0	0	0	0	0	0	0
7/26/2024 11:49	64203	KINZ_T1	1	1	0	0.3	0.4	0.1	1.52	0.29	2	3	1	900	2100	1200
7/26/2024 11:50	43101	SMIL_T2	1	1	0	0.5	0.6	0.1	-0.37	-0.36	0	0	0	0	0	0
7/26/2024 11:50	43108	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/26/2024 11:50	13503	MCMI_T2	222	206	-16	0.57	0.4	-0.17	-0.8	-0.8	0	0	0	0	0	0
7/26/2024 11:50	60201	ATGL_T2	0	0	0	0	0	0	0.79	0.84	0	0	0	0	0	0
7/26/2024 11:50	43103	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/26/2024 11:50	43105	SMIL_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/26/2024 11:53	48902	FOSP_T2	0	0	0	0	0	0	0.73	0.68	0	0	0	0	0	0
7/26/2024 11:55	64101	REFR_T1	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
7/26/2024 11:56	64101	REFR_T1	0	0	0	0	0	0	0.83	0.88	0	0	0	0	0	0
7/26/2024 11:56	24104	EHAZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/26/2024 11:56	24105	EHAZ_T1	4	4	0	6.05	6.1	0.05	0	0	0	0	0	0	0	0
7/26/2024 11:56	24102	EHAZ_T1	1	3	2	0.7	0.95	0.25	0.76	0.75	0	0	0	0	0	0
7/26/2024 11:57	64101	REFR_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
7/26/2024 11:58	60801	BUCK_T1	2	12	10	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
7/26/2024 11:58	60803	BUCK_T1	14	14	0	0.41	0.66	0.25	-0.29	-0.29	1	1	0	600	600	0
7/26/2024 11:59	60801	BUCK_T1	2	12	10	0.4	0.33	-0.07	0.21	0.09	0	0	0	0	0	0
7/26/2024 11:59	64204	KINZ_T1	2	5	3	0.75	0.68	-0.07	0	0	0	0	0	0	0	0
7/26/2024 11:59	60803	BUCK_T1	14	14	0	0.41	0.66	0.25	-0.29	-0.29	1	1	0	600	600	0
7/26/2024 11:59	64203	KINZ_T1	1	1	0	0.3	0.4	0.1	0.29	0.07	3	3	0	2100	2100	0
7/26/2024 12:00	45901	AUBU_T1	0	0	0	0	0	0	2.01	2.01	0	0	0	0	0	0
7/26/2024 12:01	60803	BUCK_T1	14	14	0	0.56	0.64	0.08	-0.29	-0.29	1	1	0	600	600	0
7/26/2024 12:01	60201	ATGL_T2	0	0	0	0	0	0	0.84	0.87	0	0	0	0	0	0
7/26/2024 12:01	53903	HALI_T2	4	6	2	0.45	0.7	0.25	0.13	0.16	0	0	0	0	0	0
7/26/2024 12:01	53902	HALI_T2	3	3	0	1.67	1.83	0.16	0	0	0	0	0	0	0	0
7/26/2024 12:01	60801	BUCK_T1	4	12	8	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
7/26/2024 12:03	60201	ATGL_T2	0	0	0	0	0	0	0.84	0.87	0	0	0	0	0	0
7/26/2024 12:03	42903	MIDD_T2	2	4	2	1.3	0.88	-0.42	0.64	0.64	0	0	0	0	0	0
7/26/2024 12:04	60502	NMAN_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
7/26/2024 12:04	60504	NMAN_T2	2	1	-1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
7/26/2024 12:05	13503	MCMI_T2	202	176	-26	0.39	0.33	-0.06	-1.6	-1.59	0	0	0	0	0	0
7/26/2024 12:06	15201	SFAR_T1	0	0	0	0	0	0	0.69	0.68	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/26/2024 12:07	65205	PRIN_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
7/26/2024 12:07	15803	WGAT_T1	0	0	0	0	0	0	0.9	0.88	0	0	0	0	0	0
7/26/2024 12:15	64204	KINZ_T1	5	5	0	0.64	0.43	-0.21	0	0	0	0	0	0	0	0
7/26/2024 12:15	61506	EPET_T2	0	0	0	0	0	0	-1.01	-1.09	2	2	0	1800	1800	0
7/26/2024 12:15	61501	EPET_T2	1	1	0	6.2	5.2	-1	0	0	0	0	0	0	0	0
7/26/2024 12:15	64203	KINZ_T1	1	2	1	0.8	1.2	0.4	0.07	0.12	3	3	0	2100	2100	0
7/26/2024 12:16	64203	KINZ_T1	1	2	1	0.8	1.2	0.4	0.07	0.12	3	3	0	2100	2100	0
7/26/2024 12:16	60201	ATGL_T2	0	0	0	0	0	0	0.87	0.81	0	0	0	0	0	0
7/26/2024 12:16	64204	KINZ_T1	5	5	0	0.64	0.43	-0.21	0	0	0	0	0	0	0	0
7/26/2024 12:17	53903	HALI_T2	4	6	2	0.48	0.7	0.22	0.05	0.06	0	0	0	0	0	0
7/26/2024 12:17	53902	HALI_T2	3	3	0	1.63	1.83	0.2	0	0	0	0	0	0	0	0
7/26/2024 12:18	22805	HAUT_T2	0	0	0	0	0	0	-1.46	-1.46	1	1	0	1200	1200	0
7/26/2024 12:18	22801	HAUT_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 12:23	59102	WALK_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/26/2024 12:23	59101	WALK_T2	1	1	0	0.5	0.6	0.1	2.72	2.52	2	2	0	1200	1200	0
7/26/2024 12:24	55103	WERT_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
7/26/2024 12:24	55105	WERT_T1	0	0	0	0	0	0	0.25	0.25	1	1	0	900	900	0
7/26/2024 12:25	59102	WALK_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/26/2024 12:25	48902	FOSP_T2	0	0	0	0	0	0	0.68	0.68	1	1	0	1200	1200	0
7/26/2024 12:25	59101	WALK_T2	1	1	0	0.5	0.6	0.1	1.36	1.26	1	1	0	600	600	0
7/26/2024 12:26	59101	WALK_T2	1	1	0	0.5	0.6	0.1	1.36	1.26	1	1	0	600	600	0
7/26/2024 12:26	59102	WALK_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/26/2024 12:28	67605	WARW_T1	1	1	0	0.5	0.8	0.3	-0.88	-0.83	0	0	0	0	0	0
7/26/2024 12:28	57401	SPAN_T1	0	0	0	0	0	0	-0.29	-0.36	1	1	0	600	600	0
7/26/2024 12:31	57401	SPAN_T1	0	0	0	0	0	0	-0.29	-0.36	1	1	0	600	600	0
7/26/2024 12:31	67605	WARW_T1	1	14	13	0.7	0.8	0.1	-0.88	-0.83	0	0	0	0	0	0
7/26/2024 12:33	57401	SPAN_T1	0	0	0	0	0	0	-0.29	-0.36	1	1	0	600	600	0
7/26/2024 12:40	20403	ASHF_T2	3	2	-1	0.37	0.2	-0.17	1.21	1.21	0	0	0	0	0	0
7/26/2024 12:40	20401	ASHF_T2	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
7/26/2024 12:42	61703	ELIZ_T1	0	0	0	0	0	0	-6	-6	6	6	0	6300	6300	0
7/26/2024 12:42	61701	ELIZ_T1	2	2	0	2.1	2.5	0.4	0	0	0	0	0	0	0	0
7/26/2024 12:43	46206	DANV_T2	3	23	20	0.87	0.6	-0.27	2.16	2.19	2	2	0	2100	2100	0
7/26/2024 12:43	46801	HEPB_T2	2	2	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/26/2024 12:43	46803	HEPB_T2	1	1	0	1.2	1.2	0	0.61	0.6	0	0	0	0	0	0
7/26/2024 12:45	61701	ELIZ_T1	2	2	0	2	2.5	0.5	0	0	0	0	0	0	0	0
7/26/2024 12:45	46803	HEPB_T2	1	1	0	0.5	1.2	0.7	0	0	0	0	0	0	0	0
7/26/2024 12:45	61703	ELIZ_T1	0	0	0	0	0	0	-2	-2	2	2	0	2100	2100	0
7/26/2024 12:45	46801	HEPB_T2	2	2	0	0.2	0.2	0	1.01	1.02	0	0	0	0	0	0
7/26/2024 12:47	48302	ORWI_T2	0	0	0	0	0	0	-0.24	-0.18	0	0	0	0	0	0
7/26/2024 12:49	55001	NEWP_T1	3	2	-1	0.87	0.6	-0.27	0.08	0.08	0	0	0	0	0	0
7/26/2024 12:49	55002	NEWP_T1	6	5	-1	0.72	1.16	0.44	0	0	0	0	0	0	0	0
7/26/2024 12:51	55002	NEWP_T1	6	5	-1	0.72	1.16	0.44	0	0	0	0	0	0	0	0
7/26/2024 12:51	55001	NEWP_T1	3	2	-1	0.87	0.6	-0.27	0.08	0.08	0	0	0	0	0	0
7/26/2024 12:53	24204	PROV_T3	1	1	0	7.3	6.8	-0.5	0	0	0	0	0	0	0	0
7/26/2024 12:53	24201	PROV_T3	1	3	2	8.9	3.53	-5.37	-0.89	-0.88	1	1	0	1200	1200	0
7/26/2024 12:54	40601	PIGR_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/26/2024 12:54	40603	PIGR_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/26/2024 12:54	40602	PIGR_T1	0	0	0	0	0	0	-1.33	-1.31	1	1	0	600	600	0
7/26/2024 12:58	41602	CLEV_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
7/26/2024 12:59	57401	SPAN_T1	0	0	0	0	0	0	-0.29	-0.29	1	1	0	600	600	0
7/26/2024 12:59	46206	DANV_T2	10	25	15	0.61	0.53	-0.08	2.19	2.21	2	2	0	2100	2100	0
7/26/2024 13:01	42302	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 13:04	52501	PROG_T1	1	2	1	0.4	0.3	-0.1	-0.76	-0.76	1	1	0	300	300	0
7/26/2024 13:06	41902	REED_T1	1	1	0	0.3	0.3	0	0.38	0.43	1	1	0	900	900	0
7/26/2024 13:08	21704	SUBU_T1	0	0	0	0	0	0	-1.84	-1.82	2	2	0	2400	2400	0
7/26/2024 13:08	66903	SHIL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
7/26/2024 13:08	45602	WOOL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 13:08	21701	SUBU_T1	1	1	0	7	6.5	-0.5	0	0	0	0	0	0	0	0
7/26/2024 13:08	66901	SHIL_T2	0	0	0	0	0	0	-0.96	-0.96	1	1	0	1200	1200	0
7/26/2024 13:08	21705	SUBU_T1	1	1	0	6.4	5.7	-0.7	0	0	0	0	0	0	0	0
7/26/2024 13:08	45601	WOOL_T1	0	13	13	0	0.43	0.43	0	0	0	0	0	0	0	0
7/26/2024 13:09	41902	REED_T1	1	1	0	0.3	0.3	0	0.43	0.48	1	1	0	900	900	0
7/26/2024 13:09	45601	WOOL_T1	0	13	13	0	0.43	0.43	0	0	0	0	0	0	0	0
7/26/2024 13:09	45602	WOOL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 13:10	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 13:10	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 13:10	46206	DANV_T2	23	130	107	0.57	0.59	0.02	2.21	2.23	2	2	0	2100	2100	0
7/26/2024 13:11	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 13:13	41502	FAIR_T2	0	0	0	0	0	0	-1.44	-1.43	1	1	0	900	900	0
7/26/2024 13:14	64201	KINZ_T1	0	0	0	0	0	0	-0.06	-0.02	4	4	0	2100	2100	0
7/26/2024 13:14	52401	GRPA_T2	0	2	2	0	1.5	1.5	0	0	0	0	0	0	0	0
7/26/2024 13:14	64204	KINZ_T1	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/26/2024 13:14	52402	GRPA_T2	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/26/2024 13:14	64203	KINZ_T1	2	1	-1	0.8	1	0.2	0	0	0	0	0	0	0	0
7/26/2024 13:14	52403	GRPA_T2	7	25	18	1.13	1	-0.13	0.54	0.55	0	0	0	0	0	0
7/26/2024 13:15	26803	JAFR_T1	1	0	-1	0.3	0	-0.3	-0.04	0	1	1	0	900	900	0
7/26/2024 13:15	64201	KINZ_T1	0	0	0	0	0	0	-0.06	-0.02	4	4	0	2100	2100	0
7/26/2024 13:15	64204	KINZ_T1	1	3	2	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/26/2024 13:15	64203	KINZ_T1	1	0	-1	1	1	0	0	0	0	0	0	0	0	0
7/26/2024 13:16	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 13:16	42302	MOWR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/26/2024 13:18	64203	KINZ_T1	1	1	0	1	1	0	-0.08	-0.05	3	3	0	2100	2100	0
7/26/2024 13:18	64204	KINZ_T1	1	3	2	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/26/2024 13:19	64204	KINZ_T1	1	3	2	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/26/2024 13:19	64201	KINZ_T1	0	0	0	0	0	0	-0.06	-0.02	4	4	0	2100	2100	0
7/26/2024 13:19	41902	REED_T1	41	1	-40	7.05	0.3	-6.75	0.43	0.48	1	1	0	900	900	0
7/26/2024 13:19	64203	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
7/26/2024 13:19	64305	LINC_T1	1	1	0	0.3	0.4	0.1	0.29	0.29	0	0	0	0	0	0
7/26/2024 13:21	55001	NEWP_T1	1	2	1	0.6	0.5	-0.1	-0.49	-0.48	1	1	0	600	600	0
7/26/2024 13:21	55002	NEWP_T1	5	6	1	0.98	0.78	-0.2	0	0	0	0	0	0	0	0
7/26/2024 13:22	41902	REED_T1	41	1	-40	7.05	0.3	-6.75	0.48	0.53	1	1	0	900	900	0
7/26/2024 13:22	55001	NEWP_T1	1	2	1	0.6	0.5	-0.1	-0.48	-0.48	1	1	0	600	600	0
7/26/2024 13:22	55002	NEWP_T1	5	6	1	0.98	0.78	-0.2	0	0	0	0	0	0	0	0
7/26/2024 13:24	45602	WOOL_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
7/26/2024 13:24	45601	WOOL_T1	5	18	13	0.48	0.53	0.05	0	0	0	0	0	0	0	0
7/26/2024 13:24	21703	SUBU_T1	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
7/26/2024 13:24	21705	SUBU_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
7/26/2024 13:24	21701	SUBU_T1	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
7/26/2024 13:25	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 13:25	46206	DANV_T2	21	130	109	0.57	0.47	-0.1	2.23	2.15	2	2	0	2100	2100	0
7/26/2024 13:26	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 13:32	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 13:33	15603	NSTR_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
7/26/2024 13:33	52004	LING_T2	2	2	0	4.55	4.6	0.05	0	0	0	0	0	0	0	0
7/26/2024 13:33	52002	LING_T2	0	1	1	0	0	0	1.56	1.6	0	0	0	0	0	0
7/26/2024 13:35	15604	NSTR_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
7/26/2024 13:36	43108	SMIL_T2	1	1	0	0.8	0.5	-0.3	-0.65	-0.63	1	1	0	1200	1200	0
7/26/2024 13:36	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/26/2024 13:36	42201	SHEN_T2	2	2	0	0.35	0.7	0.35	0.27	0.27	1	1	0	600	600	0
7/26/2024 13:37	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/26/2024 13:37	15604	NSTR_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
7/26/2024 13:37	13503	MCMI_T2	132	119	-13	0.26	0.27	0.01	-0.77	-0.77	0	0	0	0	0	0
7/26/2024 13:37	55101	WERT_T1	0	2	2	0	0	0	-1.7	-1.59	4	4	0	3300	3300	0
7/26/2024 13:37	55103	WERT_T1	1	1	0	8.2	6.4	-1.8	0	0	0	0	0	0	0	0
7/26/2024 13:37	43102	SMIL_T2	0	0	0	0	0	0	-0.46	-0.45	1	1	0	600	600	0
7/26/2024 13:37	43108	SMIL_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/26/2024 13:39	65601	QVIL_T2	3	3	0	0.53	0.27	-0.26	-0.19	-0.1	1	1	0	900	900	0
7/26/2024 13:40	64101	REFR_T1	0	0	0	0	0	0	1.18	1.23	0	0	0	0	0	0
7/26/2024 13:41	22001	BOHE_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/26/2024 13:41	64101	REFR_T1	0	0	0	0	0	0	0.78	0.82	0	0	0	0	0	0
7/26/2024 13:41	22003	BOHE_T1	1	2	1	0.3	1.75	1.45	0	0	0	0	0	0	0	0
7/26/2024 13:42	64101	REFR_T1	0	0	0	0	0	0	0.78	0.82	0	0	0	0	0	0
7/26/2024 13:42	10801	CHHI_T1	7	6	-1	0.79	0.76	-0.03	-1.22	-1.26	3	3	0	2100	2100	0
7/26/2024 13:43	22901	HARW_T1	1	6	5	0.1	0.4	0.3	0.01	-0.17	2	2	0	2400	2400	0
7/26/2024 13:43	22903	HARW_T1	22	10	-12	1.43	0	-1.43	0	0	0	0	0	0	0	0
7/26/2024 13:43	10805	CHHI_T2	7	7	0	1.5	8.7	7.2	-0.98	-1	1	1	0	600	600	0
7/26/2024 13:44	44801	EDAN_T2	8	8	0	0.4	0.54	0.14	-2.5	-2.48	0	0	0	0	0	0
7/26/2024 13:44	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/26/2024 13:44	57401	SPAN_T1	0	1	1	0	0.2	0.2	-0.81	-0.76	1	1	0	600	600	0
7/26/2024 13:45	23401	HONE_T2	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
7/26/2024 13:45	44801	EDAN_T2	6	9	3	0.55	0.5	-0.05	-1.25	-1.24	0	0	0	0	0	0
7/26/2024 13:46	52403	GRPA_T2	11	21	10	0.74	0.71	-0.03	0.56	0.57	0	0	0	0	0	0
7/26/2024 13:46	52401	GRPA_T2	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/26/2024 13:49	52004	LING_T2	2	2	0	4.6	4.65	0.05	0	0	0	0	0	0	0	0
7/26/2024 13:49	52002	LING_T2	1	4	3	0	0	0	0.8	0.82	0	0	0	0	0	0
7/26/2024 13:49	48902	FOSP_T2	0	0	0	0	0	0	0.71	0.7	1	1	0	1200	1200	0
7/26/2024 13:49	52001	LING_T1	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
7/26/2024 13:50	52004	LING_T2	2	2	0	4.6	4.65	0.05	0	0	0	0	0	0	0	0
7/26/2024 13:50	52002	LING_T2	1	4	3	0	0	0	0.8	0.82	0	0	0	0	0	0
7/26/2024 13:51	65901	SAKR_T2	1	1	0	7.4	7.3	-0.1	-0.65	-0.68	2	2	0	1500	1500	0
7/26/2024 13:56	29402	BELT_T1	221	253	32	1.05	1.17	0.12	0	0	0	0	0	0	0	0
7/26/2024 13:56	42201	SHEN_T2	1	2	1	0.8	0.7	-0.1	0.27	0.27	1	1	0	600	600	0
7/26/2024 13:56	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 13:57	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 13:57	53501	EVIL_T2	1	1	0	0.3	0.7	0.4	-0.15	-0.18	2	2	0	1200	1200	0
7/26/2024 13:57	46206	DANV_T2	27	50	23	0.47	0.57	0.1	2.13	2.2	2	2	0	2100	2100	0
7/26/2024 13:58	29402	BELT_T1	221	253	32	1.05	1.17	0.12	0	0	0	0	0	0	0	0
7/26/2024 14:01	44801	EDAN_T2	8	9	1	0.41	0.6	0.19	-1.24	-1.25	0	0	0	0	0	0
7/26/2024 14:02	22901	HARW_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
7/26/2024 14:02	22903	HARW_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
7/26/2024 14:05	21701	SUBU_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
7/26/2024 14:05	21705	SUBU_T1	1	1	0	5.8	5.8	0	1.01	1.01	0	0	0	0	0	0
7/26/2024 14:10	61102	BERK_T5	0	0	0	0	0	0	0.83	0.83	1	1	0	300	300	0
7/26/2024 14:10	40901	JESH_T1	1	1	0	1.4	1.7	0.3	0	0	0	0	0	0	0	0
7/26/2024 14:10	40902	JESH_T1	1	0	-1	0.3	0	-0.3	0.03	-0.07	0	0	0	0	0	0
7/26/2024 14:11	61102	BERK_T5	0	0	0	0	0	0	0.83	0.83	1	1	0	300	300	0
7/26/2024 14:11	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/26/2024 14:11	41602	CLEV_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/26/2024 14:12	48902	FOSP_T2	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
7/26/2024 14:12	61102	BERK_T5	0	0	0	0	0	0	1.66	1.66	2	2	0	600	600	0
7/26/2024 14:13	43101	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/26/2024 14:13	43108	SMIL_T2	1	0	-1	0.5	0	-0.5	-0.85	-0.83	1	1	0	1200	1200	0
7/26/2024 14:13	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/26/2024 14:13	61102	BERK_T5	0	0	0	0	0	0	0.83	0.83	1	1	0	300	300	0
7/26/2024 14:15	44801	EDAN_T2	7	8	1	0.81	0.58	-0.23	-1.25	-1.2	0	0	0	0	0	0
7/26/2024 14:16	58705	ROSE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/26/2024 14:16	58706	ROSE_T2	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
7/26/2024 14:16	58701	ROSE_T2	0	0	0	0	0	0	-0.49	-0.47	1	1	0	600	600	0
7/26/2024 14:18	48301	ORWI_T1	3	3	0	0.3	1.3	1	1.02	0.97	0	0	0	0	0	0
7/26/2024 14:19	48301	ORWI_T1	3	3	0	0.3	1.3	1	1.02	0.97	0	0	0	0	0	0
7/26/2024 14:20	52004	LING_T2	2	2	0	4.65	5.1	0.45	0	0	0	0	0	0	0	0
7/26/2024 14:20	43102	SMIL_T2	0	0	0	0	0	0	-0.43	-0.42	1	1	0	600	600	0
7/26/2024 14:20	52002	LING_T2	4	7	3	0.58	0	-0.58	0.84	0.86	0	0	0	0	0	0
7/26/2024 14:20	43105	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/26/2024 14:20	43101	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/26/2024 14:21	43101	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/26/2024 14:21	43105	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/26/2024 14:21	43108	SMIL_T2	0	0	0	0	0	0	-0.83	-0.81	1	1	0	1200	1200	0
7/26/2024 14:23	64101	REFR_T1	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
7/26/2024 14:24	55103	WERT_T1	1	1	0	5.7	7	1.3	0	0	0	0	0	0	0	0
7/26/2024 14:24	55101	WERT_T1	1	8	7	0.4	0	-0.4	-4.51	-4.92	12	12	0	9900	9900	0
7/26/2024 14:27	55101	WERT_T1	1	8	7	0.4	0	-0.4	-3	-3.28	8	8	0	6600	6600	0
7/26/2024 14:27	55103	WERT_T1	1	1	0	5.7	7	1.3	0	0	0	0	0	0	0	0
7/26/2024 14:28	53501	EVIL_T2	1	3	2	0.6	0.63	0.03	-0.17	-0.71	2	2	0	1200	1200	0
7/26/2024 14:29	22903	HARW_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
7/26/2024 14:29	22901	HARW_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/26/2024 14:30	40801	EXCH_T2	1	2	1	0.1	0.2	0.1	0.02	0.08	1	1	0	1200	1200	0
7/26/2024 14:30	25402	LAHA_T2	0	2	2	0	0.5	0.5	0.07	-0.16	0	0	0	0	0	0
7/26/2024 14:30	40802	EXCH_T2	1	2	1	1.3	0.65	-0.65	0	0	0	0	0	0	0	0
7/26/2024 14:31	52402	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/26/2024 14:31	52403	GRPA_T2	25	18	-7	0.68	0.58	-0.1	0.6	0	0	0	0	0	0	0
7/26/2024 14:31	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 14:31	52401	GRPA_T2	2	0	-2	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/26/2024 14:31	64203	KINZ_T1	1	2	1	1.1	0.8	-0.3	0.36	0.34	3	3	0	2100	2100	0
7/26/2024 14:31	64204	KINZ_T1	3	2	-1	0.47	1	0.53	0	0	0	0	0	0	0	0
7/26/2024 14:32	63202	MGTN_T2	0	0	0	0	0	0	-0.85	-0.9	1	1	0	900	900	0
7/26/2024 14:33	47802	MOCA_T2	2	2	0	0.8	0.6	-0.2	-0.57	-0.53	0	0	0	0	0	0
7/26/2024 14:36	43103	SMIL_T2	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
7/26/2024 14:36	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/26/2024 14:39	43103	SMIL_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
7/26/2024 14:39	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/26/2024 14:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/26/2024 14:42	40801	EXCH_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/26/2024 14:42	45501	DERR_T2	4	3	-1	0.73	0.25	-0.48	1.01	0.91	2	2	0	1800	1800	0
7/26/2024 14:42	40802	EXCH_T2	1	2	1	1.3	0.65	-0.65	-0.19	0.29	0	0	0	0	0	0
7/26/2024 14:43	45501	DERR_T2	4	3	-1	0.73	0.25	-0.48	1.01	0.91	2	2	0	1800	1800	0
7/26/2024 14:43	45502	DERR_T2	0	0	0	0	0	0	-0.36	-0.38	1	1	0	300	300	0
7/26/2024 14:44	61102	BERK_T5	0	0	0	0	0	0	0.82	0.79	1	1	0	300	300	0
7/26/2024 14:45	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 14:45	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/26/2024 14:46	10805	CHHI_T2	8	3	-5	1.49	8.6	7.11	-0.99	-1.07	1	1	0	600	600	0
7/26/2024 14:47	22901	HARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/26/2024 14:47	40802	EXCH_T2	2	1	-1	0.65	0.7	0.05	-0.19	0.29	0	0	0	0	0	0
7/26/2024 14:47	40801	EXCH_T2	2	3	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/26/2024 14:47	22905	HARW_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
7/26/2024 14:48	45801	HEGI_T1	0	0	0	0	0	0	0.24	0.23	1	1	0	900	900	0
7/26/2024 14:51	55002	NEWP_T1	4	4	0	0.93	0.68	-0.25	0	0	0	0	0	0	0	0
7/26/2024 14:51	55001	NEWP_T1	0	0	0	0	0	0	-0.43	-0.42	1	1	0	600	600	0
7/26/2024 14:52	43108	SMIL_T2	0	1	1	0	0	0	-0.81	-0.82	1	1	0	1200	1200	0
7/26/2024 14:55	42201	SHEN_T2	1	0	-1	0.8	1.3	0.5	0	0	0	0	0	0	0	0
7/26/2024 14:55	42204	SHEN_T2	0	0	0	0	0	0	-0.39	-0.39	1	1	0	1200	1200	0
7/26/2024 14:57	42501	ALTA_T2	0	0	0	0	0	0	-0.81	-0.72	1	1	0	600	600	0
7/26/2024 14:58	42503	ALTA_T2	0	0	0	0	0	0	-0.75	-0.81	0	0	0	0	0	0
7/26/2024 15:00	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 15:01	53902	HALI_T2	3	2	-1	1.7	2.35	0.65	0	0	0	0	0	0	0	0
7/26/2024 15:01	53903	HALI_T2	8	5	-3	0.48	0.36	-0.12	0.17	0.18	0	0	0	0	0	0
7/26/2024 15:01	53901	HALI_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
7/26/2024 15:04	16402	MOPO_T1	7	0	-7	0.24	0	-0.24	0.39	0.39	0	0	0	0	0	0
7/26/2024 15:09	55101	WERT_T1	0	2	2	0	0.2	0.2	-1.51	-1.49	4	4	0	3300	3300	0
7/26/2024 15:09	55103	WERT_T1	1	1	0	9.3	6.8	-2.5	0	0	0	0	0	0	0	0
7/26/2024 15:09	66703	STRA_T1	1	4	3	0.1	0.2	0.1	0.88	0.91	0	0	0	0	0	0
7/26/2024 15:10	44301	BEAV_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/26/2024 15:10	10805	CHHI_T2	3	1	-2	3.03	8.6	5.57	-1.18	-1.23	1	1	0	600	600	0
7/26/2024 15:10	44302	BEAV_T2	5	4	-1	0.52	0.35	-0.17	0.42	0.42	0	0	0	0	0	0
7/26/2024 15:12	55101	WERT_T1	0	2	2	0	0.2	0.2	-1.51	-1.49	4	4	0	3300	3300	0
7/26/2024 15:12	55103	WERT_T1	1	1	0	9.3	6.8	-2.5	0	0	0	0	0	0	0	0
7/26/2024 15:13	11101	EGYP_T1	1	4	3	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
7/26/2024 15:13	11102	EGYP_T1	3	3	0	0.83	1.2	0.37	0	0	0	0	0	0	0	0
7/26/2024 15:13	11104	EGYP_T1	6	7	1	0.72	0.96	0.24	0.95	0.96	0	0	0	0	0	0
7/26/2024 15:14	10805	CHHI_T2	3	1	-2	3.03	8.6	5.57	-1.18	-1.23	1	1	0	600	600	0
7/26/2024 15:14	11104	EGYP_T1	6	7	1	0.72	0.96	0.24	1.9	1.93	0	0	0	0	0	0
7/26/2024 15:14	11101	EGYP_T1	1	4	3	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
7/26/2024 15:14	11102	EGYP_T1	3	3	0	0.83	1.2	0.37	0	0	0	0	0	0	0	0
7/26/2024 15:16	45802	HEGI_T2	1	43	42	0.4	0.79	0.39	0.71	0.69	1	1	0	300	300	0
7/26/2024 15:20	64701	LITI_T1	0	0	0	0	0	0	0.78	0.71	0	0	0	0	0	0
7/26/2024 15:20	16402	MOPO_T1	0	9	9	0	0	0	0.39	0.39	0	0	0	0	0	0
7/26/2024 15:25	45501	DERR_T2	2	1	-1	0.35	0.6	0.25	0.98	1	2	2	0	1800	1800	0
7/26/2024 15:26	45802	HEGI_T2	1	43	42	0.4	0.79	0.39	0.69	0.65	1	1	0	300	300	0
7/26/2024 15:28	45501	DERR_T2	2	1	-1	0.35	0.6	0.25	1.95	2.01	4	4	0	3600	3600	0
7/26/2024 15:29	45902	AUBU_T1	0	0	0	0	0	0	-0.4	-0.46	1	1	0	600	600	0
7/26/2024 15:29	45501	DERR_T2	2	1	-1	0.35	0.6	0.25	0.98	1	2	2	0	1800	1800	0
7/26/2024 15:31	59101	WALK_T2	0	0	0	0	0	0	0.1	0.15	0	0	0	0	0	0
7/26/2024 15:32	42902	MIDD_T2	1	1	0	0.1	1	0.9	0.06	0.1	1	0	-1	600	0	-600
7/26/2024 15:32	46102	MACI_T1	0	0	0	0	0	0	0.94	0.94	0	0	0	0	0	0
7/26/2024 15:32	42903	MIDD_T2	2	2	0	0.85	1.15	0.3	0	0	0	0	0	0	0	0
7/26/2024 15:32	59101	WALK_T2	0	0	0	0	0	0	0.1	0.15	0	0	0	0	0	0
7/26/2024 15:36	45602	WOOL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 15:36	60803	BUCK_T1	0	1	1	0	0.1	0.1	-0.24	-0.24	1	1	0	600	600	0
7/26/2024 15:36	45601	WOOL_T1	10	8	-2	0.47	0.63	0.16	0	0	1	1	0	1200	1200	0
7/26/2024 15:37	52004	LING_T2	2	2	0	4.95	5.2	0.25	0.63	0.6	0	0	0	0	0	0
7/26/2024 15:38	42902	MIDD_T2	1	1	0	0.1	1	0.9	0.1	0.02	0	0	0	0	0	0
7/26/2024 15:38	42903	MIDD_T2	2	2	0	0.85	1.15	0.3	0	0	0	0	0	0	0	0
7/26/2024 15:39	42902	MIDD_T2	1	1	0	0.1	1	0.9	0.1	0.02	0	0	0	0	0	0
7/26/2024 15:39	42903	MIDD_T2	2	2	0	0.85	1.15	0.3	0	0	0	0	0	0	0	0
7/26/2024 15:41	44302	BEAV_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
7/26/2024 15:41	44301	BEAV_T2	0	1	1	0	0.5	0.5	-0.45	-0.45	1	1	0	600	600	0
7/26/2024 15:42	44302	BEAV_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
7/26/2024 15:42	44301	BEAV_T2	0	1	1	0	0.5	0.5	-0.45	-0.45	1	1	0	600	600	0
7/26/2024 15:44	42902	MIDD_T2	1	1	0	0.1	1	0.9	0.2	0.04	0	0	0	0	0	0
7/26/2024 15:44	42903	MIDD_T2	2	2	0	0.85	1.15	0.3	0	0	0	0	0	0	0	0
7/26/2024 15:46	46204	DANV_T2	2	4	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/26/2024 15:46	46206	DANV_T2	1	8	7	0.5	1.5	1	2.14	2.23	2	2	0	2100	2100	0
7/26/2024 15:47	45802	HEGI_T2	42	16	-26	0.79	0.52	-0.27	0.65	0.64	1	0	-1	300	0	-300
7/26/2024 15:51	63306	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/26/2024 15:51	63304	GREE_T1	0	0	0	0	0	0	-2.05	-2.04	0	0	0	0	0	0
7/26/2024 15:51	63305	GREE_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/26/2024 15:52	45601	WOOL_T1	6	11	5	0.58	1.35	0.77	0	0	1	1	0	1200	1200	0
7/26/2024 15:52	45602	WOOL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/26/2024 15:56	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/26/2024 15:58	57401	SPAN_T1	7	6	-1	0.56	0.23	-0.33	-0.42	-0.32	1	1	0	600	600	0
7/26/2024 15:59	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/26/2024 16:00	46204	DANV_T2	3	2	-1	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/26/2024 16:00	46203	DANV_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
7/26/2024 16:00	46206	DANV_T2	34	27	-7	0.47	0.57	0.1	0	0	0	0	0	0	0	0
7/26/2024 16:00	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/26/2024 16:00	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 16:10	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 16:10	46203	DANV_T2	0	0	0	0	0	0	-0.14	-0.04	0	0	0	0	0	0
7/26/2024 16:10	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/26/2024 16:10	46206	DANV_T2	34	27	-7	0.47	0.57	0.1	0	0	0	0	0	0	0	0
7/26/2024 16:10	46204	DANV_T2	3	2	-1	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/26/2024 16:11	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 16:12	46206	DANV_T2	34	27	-7	0.47	0.57	0.1	2.26	2.25	2	2	0	2100	2100	0
7/26/2024 16:12	46204	DANV_T2	3	2	-1	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/26/2024 16:14	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 16:14	46206	DANV_T2	34	27	-7	0.47	0.57	0.1	0	0	0	0	0	0	0	0
7/26/2024 16:14	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/26/2024 16:14	46204	DANV_T2	3	2	-1	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/26/2024 16:14	46203	DANV_T2	0	0	0	0	0	0	-0.14	-0.04	0	0	0	0	0	0
7/26/2024 16:15	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 16:16	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 16:16	40101	HUNT_T2	16	8	-8	0.48	2.1	1.62	-0.16	-0.17	0	0	0	0	0	0
7/26/2024 16:16	45501	DERR_T2	1	2	1	0.7	0.1	-0.6	0.94	0.89	2	2	0	1800	1800	0
7/26/2024 16:17	20601	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/26/2024 16:17	20603	GRWO_T2	0	0	0	0	0	0	-0.35	-0.36	1	1	0	900	900	0
7/26/2024 16:23	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/26/2024 16:24	64101	REFR_T1	3	9	6	0.47	0.5	0.03	-0.08	-0.09	0	0	0	0	0	0
7/26/2024 16:29	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/26/2024 16:30	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/26/2024 16:30	40801	EXCH_T2	2	2	0	0.1	0.1	0	0.09	0.09	1	1	0	1200	1200	0
7/26/2024 16:30	41602	CLEV_T1	1	5	4	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/26/2024 16:30	57401	SPAN_T1	6	27	21	0.25	0.45	0.2	-0.31	-0.39	1	1	0	600	600	0
7/26/2024 16:30	40802	EXCH_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
7/26/2024 16:31	20601	GRWO_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/26/2024 16:31	20603	GRWO_T2	0	1	1	0	0.1	0.1	-0.36	-0.37	1	1	0	900	900	0
7/26/2024 16:32	53501	EVIL_T2	1	1	0	0.1	0	-0.1	-0.78	-0.78	2	2	0	1200	1200	0
7/26/2024 16:33	65503	MOJO_T2	0	0	0	0	0	0	-0.13	-0.14	1	1	0	900	900	0
7/26/2024 16:38	20401	ASHF_T2	4	5	1	1.28	0.98	-0.3	0	0	0	0	0	0	0	0
7/26/2024 16:38	20403	ASHF_T2	0	0	0	0	0	0	0.88	0.93	0	0	0	0	0	0
7/26/2024 16:38	20402	ASHF_T2	6	0	-6	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/26/2024 16:39	64101	REFR_T1	3	9	6	0.5	0.61	0.11	-0.09	-0.1	0	0	0	0	0	0
7/26/2024 16:41	42201	SHEN_T2	0	0	0	0	0	0	0.29	0.29	1	1	0	600	600	0
7/26/2024 16:42	11103	EGYP_T1	0	0	0	0	0	0	-0.96	-0.97	0	0	0	0	0	0
7/26/2024 16:42	11102	EGYP_T1	3	3	0	1.03	1.37	0.34	0	0	0	0	0	0	0	0
7/26/2024 16:42	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 16:42	11104	EGYP_T1	5	9	4	1.54	1.53	-0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/26/2024 16:43	21202	ECAR_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/26/2024 16:43	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 16:43	21206	ECAR_T2	22	1	-21	0.69	8	7.31	0.35	0.35	0	0	0	0	0	0
7/26/2024 16:49	65503	MOJO_T2	0	0	0	0	0	0	-0.14	-0.15	1	1	0	900	900	0
7/26/2024 16:54	20403	ASHF_T2	0	1	1	0	0	0	0.93	0.96	0	0	0	0	0	0
7/26/2024 16:54	20401	ASHF_T2	4	5	1	0.98	1.04	0.06	0	0	0	0	0	0	0	0
7/26/2024 16:58	42701	AUGU_T1	0	4	4	0	0.13	0.13	0	0	2	2	0	1800	1800	0
7/26/2024 17:04	12701	MACU_T1	0	0	0	0	0	0	-0.7	-0.72	1	1	0	1200	1200	0
7/26/2024 17:05	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 17:05	12701	MACU_T1	0	0	0	0	0	0	-0.7	-0.72	1	1	0	1200	1200	0
7/26/2024 17:07	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 17:19	64904	MILL_T1	0	1	1	0	0	0	0.54	0.54	0	0	0	0	0	0
7/26/2024 17:21	44203	POIN_T2	6	6	0	2.53	2.08	-0.45	0.16	0.12	2	2	0	2100	2100	0
7/26/2024 17:24	46101	MACI_T2	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
7/26/2024 17:24	55001	NEWP_T1	1	1	0	0.9	0.9	0	-0.41	-0.42	1	1	0	600	600	0
7/26/2024 17:35	67103	SPRI_T1	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
7/26/2024 17:43	44301	BEAV_T2	0	2	2	0	0.4	0.4	-0.42	-0.37	1	1	0	600	600	0
7/26/2024 17:44	44301	BEAV_T2	0	2	2	0	0.4	0.4	-0.42	-0.37	1	1	0	600	600	0
7/26/2024 17:50	58402	MORO_T1	2	5	3	0.15	0.35	0.2	0	0	0	0	0	0	0	0
7/26/2024 17:50	58401	MORO_T1	1	1	0	1.3	1	-0.3	-1.77	-1.78	3	3	0	2100	2100	0
7/26/2024 18:01	12002	HATF_T1	0	0	0	0	0	0	-0.92	-0.83	1	1	0	1200	1200	0
7/26/2024 18:05	46203	DANV_T2	0	1	1	0	0	0	-0.12	-0.12	0	0	0	0	0	0
7/26/2024 18:05	46206	DANV_T2	20	20	0	0.73	0.62	-0.11	0	0	0	0	0	0	0	0
7/26/2024 18:09	14403	SSLA_T1	9	2	-7	0.52	0.35	-0.17	2.9	2.85	0	0	0	0	0	0
7/26/2024 18:09	14404	SSLA_T1	1	1	0	3.2	3.6	0.4	0	0	0	0	0	0	0	0
7/26/2024 18:15	22002	BOHE_T1	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
7/26/2024 18:20	63306	GREE_T1	0	0	0	0	0	0	-1.62	-1.63	1	1	0	900	900	0
7/26/2024 18:20	63305	GREE_T1	8	25	17	0.3	0.31	0.01	0	0	0	0	0	0	0	0
7/26/2024 18:20	63304	GREE_T1	0	37	37	0	0.12	0.12	0	0	0	0	0	0	0	0
7/26/2024 18:23	63305	GREE_T1	8	25	17	0.3	0.31	0.01	-1.79	-1.82	1	1	0	900	900	0
7/26/2024 18:23	63304	GREE_T1	0	37	37	0	0.12	0.12	0	0	0	0	0	0	0	0
7/26/2024 18:24	63305	GREE_T1	8	25	17	0.3	0.31	0.01	-1.79	-1.82	1	1	0	900	900	0
7/26/2024 18:24	63304	GREE_T1	0	37	37	0	0.12	0.12	0	0	0	0	0	0	0	0
7/26/2024 18:26	24901	WHHA_T1	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
7/26/2024 18:26	24902	WHHA_T1	5	7	2	0.52	0.5	-0.02	0	0	0	0	0	0	0	0
7/26/2024 18:27	58006	WCAR_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
7/26/2024 18:28	58001	WCAR_T1	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
7/26/2024 18:28	58003	WCAR_T1	1	1	0	0.8	1.1	0.3	0.45	0.44	1	1	0	600	600	0
7/26/2024 18:32	64902	MILL_T2	0	0	0	0	0	0	-0.7	-0.72	1	1	0	900	900	0
7/26/2024 18:34	64902	MILL_T2	0	0	0	0	0	0	-0.7	-0.72	1	1	0	900	900	0
7/26/2024 18:41	11104	EGYP_T1	8	5	-3	1.55	1.82	0.27	0	0	0	0	0	0	0	0
7/26/2024 18:41	10707	CATA_T2	0	0	0	0	0	0	0.73	0.8	0	0	0	0	0	0
7/26/2024 18:41	11101	EGYP_T1	0	0	0	0	0	0	-0.34	-0.35	1	1	0	1200	1200	0
7/26/2024 18:41	11102	EGYP_T1	3	5	2	0.77	1.2	0.43	0	0	0	0	0	0	0	0
7/26/2024 18:42	46004	BERW_T2	1	0	-1	0.4	0	-0.4	0.15	0.15	0	0	0	0	0	0
7/26/2024 18:42	20603	GRWO_T2	1	5	4	0.1	0.1	0	-0.42	-0.43	1	1	0	900	900	0
7/26/2024 18:43	11203	ELHE_T1	0	0	0	0	0	0	1.49	1.47	0	0	0	0	0	0
7/26/2024 18:48	15603	NSTR_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
7/26/2024 18:51	65603	QVIL_T2	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
7/26/2024 18:51	65604	QVIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/26/2024 18:51	65601	QVIL_T2	1	4	3	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
7/26/2024 18:56	51804	EBEN_T2	0	0	0	0	0	0	0.4	0.39	1	1	0	900	900	0
7/26/2024 18:59	12006	HATF_T1	0	0	0	0	0	0	0.66	0.77	1	1	0	1200	1200	0
7/26/2024 19:03	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 19:03	65502	MOJO_T2	0	0	0	0	0	0	-0.85	-0.86	1	1	0	900	900	0
7/26/2024 19:10	65201	PRIN_T4	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/26/2024 19:10	65207	PRIN_T4	2	2	0	0.6	0.65	0.05	0	0	2	2	0	1800	1800	0
7/26/2024 19:10	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 19:12	57403	SPAN_T1	1	1	0	1.4	0	-1.4	0	0	0	0	0	0	0	0
7/26/2024 19:12	57401	SPAN_T1	2	0	-2	0.2	0	-0.2	-0.37	-0.34	1	1	0	600	600	0
7/26/2024 19:14	11203	ELHE_T1	0	0	0	0	0	0	1.45	1.4	0	0	0	0	0	0
7/26/2024 19:14	11205	ELHE_T1	0	27	27	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 19:17	50505	MECH_T1	0	0	0	0	0	0	-1.61	-1.64	0	0	0	0	0	0
7/26/2024 19:17	50501	MECH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/26/2024 19:17	50502	MECH_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
7/26/2024 19:18	46102	MACI_T1	0	0	0	0	0	0	0.91	0.91	0	0	0	0	0	0
7/26/2024 19:18	63804	HEMP_T1	1	1	0	6.7	6.5	-0.2	-0.12	-0.12	0	0	0	0	0	0
7/26/2024 19:19	64302	LINC_T2	4	1	-3	0.45	0.4	-0.05	1.66	1.62	0	0	0	0	0	0
7/26/2024 19:20	60502	NMAN_T2	0	1	1	0	0.9	0.9	0.35	0.32	0	0	0	0	0	0
7/26/2024 19:21	23403	HONE_T1	0	569	569	0	0	0	-0.05	-0.18	0	0	0	0	0	0
7/26/2024 19:23	57505	LAWN_T3	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/26/2024 19:23	57501	LAWN_T3	0	0	0	0	0	0	-1.21	-1.23	0	0	0	0	0	0
7/26/2024 19:25	46506	LOHA_T1	136	314	178	0.19	0.33	0.14	-1.8	-1.8	2	2	0	2100	2100	0
7/26/2024 19:25	46504	LOHA_T1	2	2	0	0.45	0.75	0.3	0	0	0	0	0	0	0	0
7/26/2024 19:25	67505	WEWI_T1	0	0	0	0	0	0	0.56	0.55	1	1	0	900	900	0
7/26/2024 19:27	46506	LOHA_T1	136	314	178	0.19	0.33	0.14	-1.8	-1.8	2	2	0	2100	2100	0
7/26/2024 19:27	46504	LOHA_T1	2	2	0	0.45	0.75	0.3	0	0	0	0	0	0	0	0
7/26/2024 19:35	51204	MTON_T2	0	0	0	0	0	0	-0.17	-0.18	1	1	0	600	600	0
7/26/2024 19:36	52504	PROG_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/26/2024 19:36	52501	PROG_T1	2	18	16	0.1	0.15	0.05	-0.78	-0.8	1	1	0	300	300	0
7/26/2024 19:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 19:43	40502	CRES_T2	8	4	-4	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
7/26/2024 20:07	63201	MGTN_T2	3	1	-2	1.47	0	-1.47	0.45	-0.01	1	1	0	600	600	0
7/26/2024 20:16	10801	CHHI_T1	0	0	0	0	0	0	-1.36	-1.39	3	3	0	2100	2100	0
7/26/2024 20:23	42801	SELI_T1	0	0	0	0	0	0	-0.53	-0.6	1	1	0	1200	1200	0
7/26/2024 20:26	46302	ROHR_T1	4	4	0	1.13	1.68	0.55	0	0	0	0	0	0	0	0
7/26/2024 20:26	46301	ROHR_T1	94	74	-20	0.22	0.17	-0.05	0.32	0.32	0	0	0	0	0	0
7/26/2024 20:29	43106	SMIL_T2	0	0	0	0	0	0	-1.43	-1.44	2	2	0	2400	2400	0
7/26/2024 20:29	43103	SMIL_T2	4	4	0	0.63	0.8	0.17	0	0	0	0	0	0	0	0
7/26/2024 20:29	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/26/2024 20:36	53903	HALI_T2	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
7/26/2024 20:36	53902	HALI_T2	1	1	0	4.5	5.4	0.9	-0.58	-0.6	0	0	0	0	0	0
7/26/2024 20:37	64101	REFR_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
7/26/2024 20:46	57401	SPAN_T1	0	0	0	0	0	0	-0.5	-0.53	1	1	0	600	600	0
7/26/2024 20:52	54506	ENOL_T2	0	0	0	0	0	0	0.07	0.03	1	0	-1	600	0	-600
7/26/2024 20:52	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/26/2024 20:54	58402	MORO_T1	0	1	1	0	0	0	-0.73	-0.76	3	3	0	2400	2400	0
7/26/2024 20:54	25503	MADI_T1	0	8	8	0	0.15	0.15	-0.74	-0.76	0	0	0	0	0	0
7/26/2024 20:56	24902	WHHA_T1	1	2	1	0.9	0.45	-0.45	0.93	0.92	0	0	0	0	0	0
7/26/2024 20:57	15703	TANN_T2	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
7/26/2024 20:57	15702	TANN_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
7/26/2024 21:02	24902	WHHA_T1	2	6	4	0.5	0.8	0.3	0.93	0.92	0	0	0	0	0	0
7/26/2024 21:15	58402	MORO_T1	0	0	0	0	0	0	-0.76	0.19	3	2	-1	2400	1500	-900
7/26/2024 21:16	58402	MORO_T1	0	0	0	0	0	0	-0.76	0.19	3	2	-1	2400	1500	-900
7/26/2024 21:17	44301	BEAV_T2	0	0	0	0	0	0	-0.57	-0.55	1	1	0	600	600	0
7/26/2024 21:19	40101	HUNT_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
7/26/2024 21:20	22901	HARW_T1	0	0	0	0	0	0	-0.27	-0.39	1	1	0	1200	1200	0
7/26/2024 21:20	22903	HARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/26/2024 21:20	22904	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 21:21	40101	HUNT_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
7/26/2024 21:24	26704	HEMI_T2	0	0	0	0	0	0	-0.7	-0.71	1	1	0	1200	1200	0
7/26/2024 21:40	67503	WEWI_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
7/26/2024 21:59	60801	BUCK_T1	55	71	16	0.54	0.65	0.11	0	0	0	0	0	0	0	0
7/26/2024 21:59	60803	BUCK_T1	19	26	7	0.79	0.78	-0.01	-0.31	-0.32	1	1	0	600	600	0
7/26/2024 22:02	60801	BUCK_T1	57	80	23	0.55	0.75	0.2	0	0	0	0	0	0	0	0
7/26/2024 22:02	60803	BUCK_T1	18	33	15	0.84	0.77	-0.07	-0.31	-0.32	1	1	0	600	600	0
7/26/2024 22:03	60801	BUCK_T1	57	80	23	0.55	0.75	0.2	0	0	0	0	0	0	0	0
7/26/2024 22:03	60803	BUCK_T1	18	33	15	0.84	0.77	-0.07	-0.31	-0.32	1	1	0	600	600	0
7/26/2024 22:05	60201	ATLA_T2	2	81	79	0.15	0.26	0.11	0.89	0.78	0	0	0	0	0	0
7/26/2024 22:07	42903	MIDD_T2	2	2	0	1	1.1	0.1	-1.3	-1.35	1	1	0	1200	1200	0
7/26/2024 22:23	46203	DANV_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
7/26/2024 22:23	57601	RUTH_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
7/26/2024 22:24	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:24	47401	PENS_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
7/26/2024 22:25	23001	SAJO_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
7/26/2024 22:26	24102	EHAZ_T1	1	1	0	0.9	0.7	-0.2	0.06	0.06	0	0	0	0	0	0
7/26/2024 22:26	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
7/26/2024 22:26	42902	MIDD_T2	0	0	0	0	0	0	-0.89	-0.92	1	1	0	600	600	0
7/26/2024 22:26	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:26	15702	TANN_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
7/26/2024 22:26	42903	MIDD_T2	2	2	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
7/26/2024 22:26	24105	EHAZ_T1	4	4	0	5.83	5.7	-0.13	0	0	0	0	0	0	0	0
7/26/2024 22:26	45901	AUBU_T1	0	0	0	0	0	0	1.61	1.54	0	0	0	0	0	0
7/26/2024 22:27	11104	EGYP_T1	2	1	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/26/2024 22:27	16402	MOPO_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
7/26/2024 22:27	44801	EDAN_T2	102	127	25	0.25	0.36	0.11	0	0	0	0	0	0	0	0
7/26/2024 22:27	44802	EDAN_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
7/26/2024 22:27	46102	MACI_T1	0	0	0	0	0	0	0.87	0.86	0	0	0	0	0	0
7/26/2024 22:27	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:27	11101	EGYP_T1	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
7/26/2024 22:27	13503	MCMI_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
7/26/2024 22:28	11104	EGYP_T1	2	1	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/26/2024 22:28	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:28	10805	CHHI_T2	1	1	0	7.8	8.1	0.3	-0.83	-0.84	1	1	0	600	600	0
7/26/2024 22:28	57401	SPAN_T1	0	0	0	0	0	0	-0.73	-0.78	1	1	0	600	600	0
7/26/2024 22:28	16103	BING_T2	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
7/26/2024 22:28	22901	HARW_T1	0	0	0	0	0	0	-0.42	-0.45	1	1	0	1200	1200	0
7/26/2024 22:28	15601	NSTR_T2	2	3	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
7/26/2024 22:28	16102	BING_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/26/2024 22:28	53601	DALM_T2	1	1	0	0.2	0.3	0.1	-0.05	-0.06	0	0	0	0	0	0
7/26/2024 22:28	60502	NMAN_T2	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
7/26/2024 22:28	15603	NSTR_T2	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
7/26/2024 22:28	44203	POIN_T2	1	2	1	2	1.7	-0.3	-0.37	-0.55	2	2	0	2100	2100	0
7/26/2024 22:28	11103	EGYP_T1	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
7/26/2024 22:28	57403	SPAN_T1	0	8	8	0	0.19	0.19	0	0	0	0	0	0	0	0
7/26/2024 22:29	40802	EXCH_T2	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
7/26/2024 22:29	60502	NMAN_T2	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
7/26/2024 22:29	43105	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/26/2024 22:29	43102	SMIL_T2	4	6	2	0.25	0.38	0.13	0	0	0	0	0	0	0	0
7/26/2024 22:29	11103	EGYP_T1	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
7/26/2024 22:29	13905	SEID_T1	0	0	0	0	0	0	-0.71	-0.73	1	1	0	1200	1200	0
7/26/2024 22:29	44801	EDAN_T2	102	127	25	0.25	0.36	0.11	0	0	0	0	0	0	0	0
7/26/2024 22:29	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/26/2024 22:29	58006	WCAR_T2	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
7/26/2024 22:29	11104	EGYP_T1	2	1	-1	0.4	0.1	-0.3	0.46	0.42	0	0	0	0	0	0
7/26/2024 22:29	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/26/2024 22:29	43103	SMIL_T2	3	5	2	0.33	0.38	0.05	-1.34	-1.36	0	0	0	0	0	0
7/26/2024 22:29	44802	EDAN_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
7/26/2024 22:29	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/26/2024 22:29	67605	WARW_T1	1	1	0	0.1	0.5	0.4	-1.11	-1.15	0	0	0	0	0	0
7/26/2024 22:29	54001	SDLE_T1	1	1	0	0.9	0.9	0	0	0	1	1	0	600	600	0
7/26/2024 22:29	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.17	-0.18	1	1	0	900	900	0
7/26/2024 22:29	43108	SMIL_T2	0	0	0	0	0	0	-1.1	-1.13	1	1	0	1200	1200	0
7/26/2024 22:29	45501	DERR_T2	2	2	0	1.4	0	-1.4	-0.46	-0.38	2	2	0	1800	1800	0
7/26/2024 22:30	64101	REFR_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
7/26/2024 22:30	61102	BERK_T5	0	0	0	0	0	0	0.22	0.11	1	1	0	300	300	0
7/26/2024 22:30	67602	WARW_T2	0	0	0	0	0	0	0.75	0.89	2	2	0	1500	1500	0
7/26/2024 22:30	20401	ASHF_T2	2	1	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/26/2024 22:30	45602	WOOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:30	61703	ELIZ_T1	0	0	0	0	0	0	-4.28	-4.31	4	4	0	4200	4200	0
7/26/2024 22:30	23403	HONE_T1	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
7/26/2024 22:30	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.17	-0.18	1	1	0	900	900	0
7/26/2024 22:30	61701	ELIZ_T1	1	1	0	4.7	4.8	0.1	0	0	0	0	0	0	0	0
7/26/2024 22:30	45902	AUBU_T1	0	1	1	0	0	0	-1.92	-2.04	2	2	0	1200	1200	0
7/26/2024 22:30	43103	SMIL_T2	5	4	-1	0.38	0.38	0	0	0	0	0	0	0	0	0
7/26/2024 22:30	65503	MOJO_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/26/2024 22:30	40603	PIGR_T1	0	0	0	0	0	0	0.57	0.53	0	0	0	0	0	0
7/26/2024 22:30	43108	SMIL_T2	0	0	0	0	0	0	-1.1	-1.13	1	1	0	1200	1200	0
7/26/2024 22:30	20403	ASHF_T2	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
7/26/2024 22:30	16402	MOPO_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
7/26/2024 22:30	43102	SMIL_T2	4	7	3	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
7/26/2024 22:30	11203	ELHE_T1	0	0	0	0	0	0	1.17	1.16	0	0	0	0	0	0
7/26/2024 22:30	47802	MOCA_T2	0	0	0	0	0	0	0.53	-0.71	0	0	0	0	0	0
7/26/2024 22:30	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/26/2024 22:30	46504	LOHA_T1	2	2	0	1.1	1.05	-0.05	0	0	0	0	0	0	0	0
7/26/2024 22:30	42201	SHEN_T2	0	0	0	0	0	0	0.74	0.73	0	0	0	0	0	0
7/26/2024 22:30	46506	LOHA_T1	834	719	-115	0.95	0.73	-0.22	-3.77	-3.78	2	2	0	2400	2400	0
7/26/2024 22:30	13303	ORVI_T1	0	0	0	0	0	0	-0.23	-0.3	0	0	0	0	0	0
7/26/2024 22:30	45501	DERR_T2	2	0	-2	1.2	0	-1.2	-0.46	-0.38	2	2	0	1800	1800	0
7/26/2024 22:30	11205	ELHE_T1	1	1	0	1.3	5.1	3.8	0	0	0	0	0	0	0	0
7/26/2024 22:30	64201	KINZ_T1	1	1	0	1.5	1.6	0.1	-0.31	0.59	2	1	-1	1200	300	-900
7/26/2024 22:30	64204	KINZ_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/26/2024 22:30	10805	CHHI_T2	1	1	0	8.3	8.1	-0.2	-0.83	-0.84	1	1	0	600	600	0
7/26/2024 22:30	43105	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/26/2024 22:30	13503	MCMI_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
7/26/2024 22:31	12701	MACU_T1	0	0	0	0	0	0	-1.01	-1.02	1	1	0	1200	1200	0
7/26/2024 22:31	54201	PENN_T1	3	7	4	1.17	0.89	-0.28	0	0	0	0	0	0	0	0
7/26/2024 22:31	53501	EVIL_T2	1	0	-1	0.2	0	-0.2	-0.99	-1.01	2	2	0	1200	1200	0
7/26/2024 22:31	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.17	-0.18	1	1	0	900	900	0
7/26/2024 22:31	50501	MECH_T1	3	4	1	0.2	0.68	0.48	0	0	0	0	0	0	0	0
7/26/2024 22:31	64101	REFR_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
7/26/2024 22:31	15604	NSTR_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
7/26/2024 22:31	50502	MECH_T1	1	1	0	1.7	2.1	0.4	0	0	0	0	0	0	0	0
7/26/2024 22:31	50505	MECH_T1	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
7/26/2024 22:31	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:31	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:31	52004	LING_T2	2	2	0	5.45	5.65	0.2	0.33	0.31	0	0	0	0	0	0
7/26/2024 22:31	52002	LING_T2	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
7/26/2024 22:31	29402	BELT_T1	1	9	8	9.1	1.16	-7.94	0	0	0	0	0	0	0	0
7/26/2024 22:31	45601	WOOL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
7/26/2024 22:31	47401	PENS_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
7/26/2024 22:31	48302	ORWI_T2	2	2	0	0.2	0.45	0.25	0.08	0.07	0	0	0	0	0	0
7/26/2024 22:31	54203	PENN_T1	17	18	1	0.29	0.62	0.33	0.46	0.44	0	0	0	0	0	0
7/26/2024 22:32	61701	ELIZ_T1	1	1	0	4.7	4.8	0.1	0	0	0	0	0	0	0	0
7/26/2024 22:32	16102	BING_T2	0	1	1	0	0.1	0.1	-0.59	-0.62	1	1	0	1200	1200	0
7/26/2024 22:32	53601	DALM_T2	1	1	0	0.2	0.6	0.4	-0.05	-0.06	0	0	0	0	0	0
7/26/2024 22:32	48301	ORWI_T1	2	2	0	3.25	3.45	0.2	0.53	0.45	0	0	0	0	0	0
7/26/2024 22:32	42902	MIDD_T2	0	0	0	0	0	0	-0.89	-0.92	1	1	0	600	600	0
7/26/2024 22:32	53901	HALI_T2	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0
7/26/2024 22:32	44802	EDAN_T2	0	0	0	0	0	0	-1.13	-1.16	0	0	0	0	0	0
7/26/2024 22:32	20401	ASHF_T2	2	1	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/26/2024 22:32	43102	SMIL_T2	4	7	3	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
7/26/2024 22:32	57501	LAWN_T3	0	0	0	0	0	0	-1.56	-1.59	0	0	0	0	0	0
7/26/2024 22:32	43103	SMIL_T2	5	4	-1	0.38	0.38	0	0	0	0	0	0	0	0	0
7/26/2024 22:32	14404	SSLA_T1	1	1	0	4.9	5	0.1	0	0	0	0	0	0	0	0
7/26/2024 22:32	20403	ASHF_T2	0	0	0	0	0	0	0.87	0.81	0	0	0	0	0	0
7/26/2024 22:32	53902	HALI_T2	1	1	0	5.2	4.7	-0.5	0	0	0	0	0	0	0	0
7/26/2024 22:32	15703	TANN_T2	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
7/26/2024 22:32	16101	BING_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/26/2024 22:32	10707	CATA_T2	0	0	0	0	0	0	0.69	0.65	0	0	0	0	0	0
7/26/2024 22:32	42204	SHEN_T2	0	0	0	0	0	0	-0.62	-0.62	1	1	0	1200	1200	0
7/26/2024 22:32	44801	EDAN_T2	108	141	33	0.33	0.44	0.11	0	0	0	0	0	0	0	0
7/26/2024 22:32	53903	HALI_T2	2	2	0	0.95	0.75	-0.2	-0.01	-0.01	0	0	0	0	0	0
7/26/2024 22:32	43105	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/26/2024 22:32	44301	BEAV_T2	0	0	0	0	0	0	-0.7	-0.72	1	1	0	600	600	0
7/26/2024 22:32	22002	BOHE_T1	0	0	0	0	0	0	0.36	0.43	0	0	0	0	0	0
7/26/2024 22:32	14403	SSLA_T1	0	0	0	0	0	0	0.84	0.79	0	0	0	0	0	0
7/26/2024 22:32	57401	SPAN_T1	0	0	0	0	0	0	-1.46	-1.55	2	2	0	1200	1200	0
7/26/2024 22:32	15604	NSTR_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
7/26/2024 22:32	67103	SPRI_T1	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
7/26/2024 22:32	42201	SHEN_T2	0	0	0	0	0	0	0.74	0.73	0	0	0	0	0	0
7/26/2024 22:32	43108	SMIL_T2	0	0	0	0	0	0	-1.1	-1.13	1	1	0	1200	1200	0
7/26/2024 22:32	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:32	20603	GRWO_T2	6	23	17	0.1	0.19	0.09	-0.52	-0.53	1	1	0	900	900	0
7/26/2024 22:32	42903	MIDD_T2	2	2	0	1.1	0.95	-0.15	0	0	0	0	0	0	0	0
7/26/2024 22:32	10805	CHHI_T2	1	1	0	8.3	8.1	-0.2	-0.83	-0.84	1	1	0	600	600	0
7/26/2024 22:32	57403	SPAN_T1	5	23	18	0.12	0.26	0.14	0	0	0	0	0	0	0	0
7/26/2024 22:32	67602	WARW_T2	0	0	0	0	0	0	0.75	0.89	2	2	0	1500	1500	0
7/26/2024 22:32	56501	ROCK_T2	4	2	-2	0.3	0.2	-0.1	-1.63	-1.7	0	0	0	0	0	0
7/26/2024 22:32	15702	TANN_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
7/26/2024 22:32	61703	ELIZ_T1	0	0	0	0	0	0	-2.14	-2.16	2	2	0	2100	2100	0
7/26/2024 22:32	67605	WARW_T1	1	3	2	0.1	0.3	0.2	-1.11	-1.15	0	0	0	0	0	0
7/26/2024 22:32	10801	CHHI_T1	0	0	0	0	0	0	-1.73	-1.13	3	2	-1	2100	1500	-600
7/26/2024 22:33	64101	REFR_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
7/26/2024 22:33	20403	ASHF_T2	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
7/26/2024 22:33	52404	GRPA_T2	0	1	1	0	0.4	0.4	-0.11	-0.13	0	0	0	0	0	0
7/26/2024 22:33	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.17	-0.18	1	1	0	900	900	0
7/26/2024 22:33	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:33	46506	LOHA_T1	834	719	-115	0.95	0.73	-0.22	0	0	0	0	0	0	0	0
7/26/2024 22:33	52401	GRPA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/26/2024 22:33	64302	LINC_T2	0	0	0	0	0	0	1.26	1.22	0	0	0	0	0	0
7/26/2024 22:33	46503	LOHA_T1	0	0	0	0	0	0	-1.39	-1.31	0	0	0	0	0	0
7/26/2024 22:33	24901	WHHA_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
7/26/2024 22:33	60101	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:33	65602	QVIL_T2	9	6	-3	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
7/26/2024 22:33	65603	QVIL_T2	326	236	-90	0.25	0.26	0.01	0	0	0	0	0	0	0	0
7/26/2024 22:33	26402	INOR_T1	6	15	9	0.15	0.14	-0.01	-1.2	-1.21	0	0	0	0	0	0
7/26/2024 22:33	46101	MACI_T2	0	0	0	0	0	0	0.76	0.76	0	0	0	0	0	0
7/26/2024 22:33	46504	LOHA_T1	2	2	0	1.1	1.05	-0.05	0	0	0	0	0	0	0	0
7/26/2024 22:33	65004	NEFF_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
7/26/2024 22:33	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:33	55103	WERT_T1	1	1	0	5.3	4.2	-1.1	0	0	0	0	0	0	0	0
7/26/2024 22:33	65601	QVIL_T2	184	201	17	0.26	0.27	0.01	0	0	0	0	0	0	0	0
7/26/2024 22:33	52402	GRPA_T2	3	3	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/26/2024 22:33	57401	SPAN_T1	0	0	0	0	0	0	-0.73	-0.78	1	1	0	600	600	0
7/26/2024 22:33	55001	NEWP_T1	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
7/26/2024 22:33	57403	SPAN_T1	5	23	18	0.12	0.26	0.14	0	0	0	0	0	0	0	0
7/26/2024 22:33	24902	WHHA_T1	2	4	2	0.4	0.4	0	0	0	0	0	0	0	0	0
7/26/2024 22:33	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/26/2024 22:33	20401	ASHF_T2	2	1	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/26/2024 22:33	46203	DANV_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
7/26/2024 22:33	60201	ATGL_T2	75	304	229	0.27	0.47	0.2	0.78	0.7	0	0	0	0	0	0
7/26/2024 22:33	65604	QVIL_T2	3	4	1	0.7	0.48	-0.22	0.62	0.6	0	0	0	0	0	0
7/26/2024 22:33	65502	MOJO_T2	0	0	0	0	0	0	-1.49	-1.49	1	1	0	900	900	0
7/26/2024 22:33	52403	GRPA_T2	2	2	0	0.15	0.6	0.45	0	0	0	0	0	0	0	0
7/26/2024 22:33	44301	BEAV_T2	0	0	0	0	0	0	-0.7	-0.72	1	1	0	600	600	0
7/26/2024 22:33	55002	NEWP_T1	3	4	1	0.8	1.03	0.23	0	0	0	0	0	0	0	0
7/26/2024 22:33	55101	WERT_T1	0	0	0	0	0	0	-2.25	-2.3	4	4	0	3000	3000	0
7/26/2024 22:34	65602	QVIL_T2	9	6	-3	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
7/26/2024 22:34	42903	MIDD_T2	2	2	0	1.1	0.95	-0.15	0	0	0	0	0	0	0	0
7/26/2024 22:34	65601	QVIL_T2	184	201	17	0.26	0.27	0.01	0.34	0.3	0	0	0	0	0	0
7/26/2024 22:34	52002	LING_T2	0	0	0	0	0	0	0.94	0.88	0	0	0	0	0	0
7/26/2024 22:34	43108	SMIL_T2	0	0	0	0	0	0	-1.1	-1.13	1	1	0	1200	1200	0
7/26/2024 22:34	52004	LING_T2	2	2	0	5.45	5.65	0.2	0	0	0	0	0	0	0	0
7/26/2024 22:34	11104	EGYP_T1	0	1	1	0	0.1	0.1	0.46	0.42	0	0	0	0	0	0
7/26/2024 22:34	64902	MILL_T2	0	0	0	0	0	0	-0.34	-0.35	1	1	0	900	900	0
7/26/2024 22:34	67505	WEWI_T1	0	0	0	0	0	0	0.33	0.21	1	1	0	900	900	0
7/26/2024 22:34	42902	MIDD_T2	0	0	0	0	0	0	-0.89	-0.92	1	1	0	600	600	0
7/26/2024 22:34	45902	AUBU_T1	0	1	1	0	0	0	-1.92	-2.04	2	2	0	1200	1200	0
7/26/2024 22:34	43102	SMIL_T2	4	7	3	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
7/26/2024 22:34	60801	BUCK_T1	80	80	0	0.75	0.81	0.06	-0.02	-0.03	0	0	0	0	0	0
7/26/2024 22:34	65001	NEFF_T2	0	0	0	0	0	0	-0.93	-0.96	1	1	0	1200	1200	0
7/26/2024 22:34	12006	HATF_T1	0	0	0	0	0	0	-0.38	-0.44	1	1	0	1200	1200	0
7/26/2024 22:34	12002	HATF_T1	0	0	0	0	0	0	-0.89	-0.93	1	1	0	1200	1200	0
7/26/2024 22:34	42701	AUGU_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
7/26/2024 22:34	48302	ORWI_T2	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
7/26/2024 22:34	44801	EDAN_T2	108	141	33	0.33	0.44	0.11	-2.93	-2.95	0	0	0	0	0	0
7/26/2024 22:34	65603	QVIL_T2	326	236	-90	0.25	0.26	0.01	0.57	0.54	0	0	0	0	0	0
7/26/2024 22:34	21206	ECAR_T2	8	2	-6	1.38	7.8	6.42	1.44	1.43	0	0	0	0	0	0
7/26/2024 22:34	61102	BERK_T5	0	0	0	0	0	0	0.43	0.22	2	2	0	600	600	0
7/26/2024 22:34	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:34	43105	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/26/2024 22:34	43103	SMIL_T2	5	4	-1	0.38	0.38	0	0	0	0	0	0	0	0	0
7/26/2024 22:34	65604	QVIL_T2	3	4	1	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
7/26/2024 22:34	53501	EVIL_T2	1	0	-1	0.2	0	-0.2	-1.98	-2.02	4	4	0	2400	2400	0
7/26/2024 22:34	21204	ECAR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/26/2024 22:34	40901	JESH_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
7/26/2024 22:34	55001	NEWP_T1	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
7/26/2024 22:34	60201	ATGL_T2	75	304	229	0.27	0.47	0.2	0.78	0.7	0	0	0	0	0	0
7/26/2024 22:34	56501	ROCK_T2	4	2	-2	0.3	0.2	-0.1	-1.63	-1.7	0	0	0	0	0	0
7/26/2024 22:34	40902	JESH_T1	0	0	0	0	0	0	-1.09	-1.14	0	0	0	0	0	0
7/26/2024 22:34	55002	NEWP_T1	3	4	1	0.8	1.03	0.23	0	0	0	0	0	0	0	0
7/26/2024 22:34	62602	ENGL_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
7/26/2024 22:34	60803	BUCK_T1	32	28	-4	0.78	0.86	0.08	0	0	0	0	0	0	0	0
7/26/2024 22:35	64802	MONE_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
7/26/2024 22:35	63202	MGTN_T2	0	0	0	0	0	0	-0.04	-0.06	1	1	0	900	900	0
7/26/2024 22:35	61506	EPET_T2	0	0	0	0	0	0	-0.57	-0.64	1	1	0	900	900	0
7/26/2024 22:35	44801	EDAN_T2	108	141	33	0.33	0.44	0.11	-1.46	-1.48	0	0	0	0	0	0
7/26/2024 22:35	63305	GREE_T1	3	0	-3	0.1	0	-0.1	-1.12	-1.09	0	0	0	0	0	0
7/26/2024 22:35	64203	KINZ_T1	0	0	0	0	0	0	0.5	0.45	0	0	0	0	0	0
7/26/2024 22:35	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:35	66903	SHIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/26/2024 22:35	42903	MIDD_T2	2	2	0	1.1	0.95	-0.15	0	0	0	0	0	0	0	0
7/26/2024 22:35	52501	PROG_T1	0	0	0	0	0	0	-0.8	-1.13	0	1	1	0	300	300
7/26/2024 22:35	65207	PRIN_T4	0	1	1	0	0.1	0.1	0	0	1	1	0	1200	1200	0
7/26/2024 22:35	48902	FOSP_T2	0	0	0	0	0	0	1.01	1.01	0	0	0	0	0	0
7/26/2024 22:35	66902	SHIL_T2	3	1	-2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/26/2024 22:35	58001	WCAR_T1	4	4	0	0.73	1.4	0.67	0	0	0	0	0	0	0	0
7/26/2024 22:35	44301	BEAV_T2	0	0	0	0	0	0	-0.7	-0.72	1	1	0	600	600	0
7/26/2024 22:35	40802	EXCH_T2	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
7/26/2024 22:35	42503	ALTA_T2	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
7/26/2024 22:35	59101	WALK_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
7/26/2024 22:35	67605	WARW_T1	1	3	2	0.1	0.3	0.2	-1.11	-1.15	0	0	0	0	0	0
7/26/2024 22:35	20401	ASHF_T2	2	1	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/26/2024 22:35	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:35	23401	HONE_T2	0	0	0	0	0	0	-0.32	-0.38	0	0	0	0	0	0
7/26/2024 22:35	54001	SDLE_T1	1	1	0	0.8	1.3	0.5	0	0	1	1	0	600	600	0
7/26/2024 22:35	66901	SHIL_T2	245	118	-127	0.31	0.14	-0.17	-1.25	-1.3	1	1	0	1200	1200	0
7/26/2024 22:35	64901	MILL_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/26/2024 22:35	67602	WARW_T2	0	0	0	0	0	0	1.49	1.78	4	4	0	3000	3000	0
7/26/2024 22:35	66703	STRA_T1	5	3	-2	0.32	0.17	-0.15	0.1	0.06	0	0	0	0	0	0
7/26/2024 22:35	64204	KINZ_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/26/2024 22:35	42902	MIDD_T2	0	0	0	0	0	0	-0.89	-0.92	1	1	0	600	600	0
7/26/2024 22:35	12701	MACU_T1	0	0	0	0	0	0	-1.01	-1.02	1	1	0	1200	1200	0
7/26/2024 22:35	61102	BERK_T5	0	0	0	0	0	0	0.43	0.22	2	2	0	600	600	0
7/26/2024 22:35	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/26/2024 22:35	64101	REFR_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
7/26/2024 22:35	45902	AUBU_T1	0	1	1	0	0	0	-0.96	-1.02	1	1	0	600	600	0
7/26/2024 22:35	56501	ROCK_T2	4	2	-2	0.3	0.2	-0.1	-1.63	-1.7	0	0	0	0	0	0
7/26/2024 22:35	60201	ATGL_T2	75	304	229	0.27	0.47	0.2	0.78	0.7	0	0	0	0	0	0
7/26/2024 22:35	61501	EPET_T2	1	0	-1	5.6	5.6	0	0	0	0	0	0	0	0	0
7/26/2024 22:35	11104	EGYP_T1	0	1	1	0	0.1	0.1	0.46	0.42	0	0	0	0	0	0
7/26/2024 22:35	64201	KINZ_T1	1	1	0	1.5	1.6	0.1	-0.62	1.18	4	2	-2	2400	600	-1800
7/26/2024 22:35	64801	MONE_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/26/2024 22:35	64904	MILL_T1	0	0	0	0	0	0	0.07	0.01	0	0	0	0	0	0
7/26/2024 22:35	58003	WCAR_T1	1	1	0	1	1.7	0.7	0.88	0.87	0	0	0	0	0	0
7/26/2024 22:35	20403	ASHF_T2	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
7/26/2024 22:36	65904	SAKR_T2	0	0	0	0	0	0	-1.4	-1.41	3	3	0	1500	1500	0
7/26/2024 22:36	45902	AUBU_T1	0	1	1	0	0	0	-0.96	-1.02	1	1	0	600	600	0
7/26/2024 22:36	52403	GRPA_T2	2	2	0	0.15	0.6	0.45	0	0	0	0	0	0	0	0
7/26/2024 22:36	63305	GREE_T1	3	0	-3	0.1	0	-0.1	-1.09	-1.14	0	0	0	0	0	0
7/26/2024 22:36	60803	BUCK_T1	32	28	-4	0.78	0.86	0.08	0	0	0	0	0	0	0	0
7/26/2024 22:36	46506	LOHA_T1	834	719	-115	0.95	0.73	-0.22	-1.89	-1.9	1	1	0	1200	1200	0
7/26/2024 22:36	45501	DERR_T2	2	0	-2	1.2	0	-1.2	-0.38	-0.44	2	2	0	1800	1800	0
7/26/2024 22:36	25402	LAHA_T2	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
7/26/2024 22:36	45502	DERR_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
7/26/2024 22:36	64101	REFR_T1	0	0	0	0	0	0	0.63	0.54	0	0	0	0	0	0
7/26/2024 22:36	52004	LING_T2	2	2	0	5.45	5.65	0.2	0.33	0.31	0	0	0	0	0	0
7/26/2024 22:36	56501	ROCK_T2	4	2	-2	0.3	0.2	-0.1	-0.82	-0.85	0	0	0	0	0	0
7/26/2024 22:36	52402	GRPA_T2	3	3	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/26/2024 22:36	65901	SAKR_T2	1	1	0	8.4	9	0.6	0	0	0	0	0	0	0	0
7/26/2024 22:36	42903	MIDD_T2	2	2	0	1.1	0.95	-0.15	0	0	0	0	0	0	0	0
7/26/2024 22:36	67401	WAKE_T2	5	2	-3	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
7/26/2024 22:36	52404	GRPA_T2	0	1	1	0	0.4	0.4	-0.11	-0.13	0	0	0	0	0	0
7/26/2024 22:36	41902	REED_T1	3	0	-3	0.33	0	-0.33	1.18	1.14	0	0	0	0	0	0
7/26/2024 22:36	10805	CHHI_T2	1	1	0	8.3	8.1	-0.2	-0.84	-0.92	1	1	0	600	600	0
7/26/2024 22:36	20603	GRWO_T2	6	23	17	0.1	0.19	0.09	-0.52	-0.53	1	1	0	900	900	0
7/26/2024 22:36	52501	PROG_T1	0	0	0	0	0	0	-0.8	-1.13	0	1	1	0	300	300
7/26/2024 22:36	67402	WAKE_T2	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
7/26/2024 22:36	64902	MILL_T2	0	0	0	0	0	0	-0.35	-0.35	1	1	0	900	900	0
7/26/2024 22:36	42902	MIDD_T2	0	0	0	0	0	0	-0.92	-0.95	1	1	0	600	600	0
7/26/2024 22:36	46504	LOHA_T1	2	2	0	1.1	1.05	-0.05	0	0	0	0	0	0	0	0
7/26/2024 22:36	60801	BUCK_T1	80	80	0	0.75	0.81	0.06	-0.03	-0.05	0	0	0	0	0	0
7/26/2024 22:36	44301	BEAV_T2	0	0	0	0	0	0	-0.72	-0.73	1	1	0	600	600	0
7/26/2024 22:36	67602	WARW_T2	0	0	0	0	0	0	2.67	2.55	6	6	0	4500	4500	0
7/26/2024 22:36	61102	BERK_T5	0	0	0	0	0	0	0.11	1.05	1	1	0	300	300	0
7/26/2024 22:36	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:36	52401	GRPA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/26/2024 22:36	59101	WALK_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
7/26/2024 22:37	63305	GREE_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/26/2024 22:37	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	-1.17	-1.19	0	0	0	0	0	0
7/26/2024 22:37	43102	SMIL_T2	4	7	3	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
7/26/2024 22:37	53902	HALI_T2	1	1	0	5.2	4.7	-0.5	0	0	0	0	0	0	0	0
7/26/2024 22:37	44802	EDAN_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
7/26/2024 22:37	55001	NEWP_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
7/26/2024 22:37	65602	QVIL_T2	9	6	-3	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
7/26/2024 22:37	65603	QVIL_T2	326	236	-90	0.25	0.26	0.01	0.27	0.25	0	0	0	0	0	0
7/26/2024 22:37	63306	GREE_T1	0	0	0	0	0	0	-1.92	-1.94	1	1	0	900	900	0
7/26/2024 22:37	20401	ASHF_T2	2	1	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/26/2024 22:37	65601	QVIL_T2	184	201	17	0.26	0.27	0.01	0	0	0	0	0	0	0	0
7/26/2024 22:37	51804	EBEN_T2	0	0	0	0	0	0	0.1	0.03	1	1	0	900	900	0
7/26/2024 22:37	53903	HALI_T2	2	2	0	0.95	0.75	-0.2	-0.01	-0.02	0	0	0	0	0	0
7/26/2024 22:37	45802	HEGI_T2	47	1	-46	1	0	-1	0.97	0.96	1	1	0	300	300	0
7/26/2024 22:37	59101	WALK_T2	0	0	0	0	0	0	-0.19	-0.11	0	0	0	0	0	0
7/26/2024 22:37	65205	PRIN_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
7/26/2024 22:37	44801	EDAN_T2	108	141	33	0.33	0.44	0.11	0	0	0	0	0	0	0	0
7/26/2024 22:37	40502	CRES_T2	7	9	2	0.11	0.16	0.05	0	0	0	0	0	0	0	0
7/26/2024 22:37	60101	COCA_T1	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
7/26/2024 22:37	67805	WLAN_T1	122	0	-122	0.22	0	-0.22	0	0	0	0	0	0	0	0
7/26/2024 22:37	43103	SMIL_T2	5	4	-1	0.38	0.38	0	-0.68	-0.69	0	0	0	0	0	0
7/26/2024 22:37	55002	NEWP_T1	3	4	1	0.8	1.03	0.23	0	0	0	0	0	0	0	0
7/26/2024 22:37	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:37	40801	EXCH_T2	0	0	0	0	0	0	-0.25	-0.25	1	1	0	1200	1200	0
7/26/2024 22:37	64305	LINC_T1	1	1	0	0.3	0	-0.3	-0.31	-0.29	0	0	0	0	0	0
7/26/2024 22:37	44301	BEAV_T2	0	0	0	0	0	0	-0.72	-0.73	1	1	0	600	600	0
7/26/2024 22:37	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:37	46203	DANV_T2	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
7/26/2024 22:37	53501	EVIL_T2	1	0	-1	0.2	0	-0.2	-1.01	-1.03	2	2	0	1200	1200	0
7/26/2024 22:37	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:37	42201	SHEN_T2	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
7/26/2024 22:37	14403	SSLA_T1	0	0	0	0	0	0	0.79	0.75	0	0	0	0	0	0
7/26/2024 22:37	46801	HEPB_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/26/2024 22:37	20403	ASHF_T2	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
7/26/2024 22:37	55103	WERT_T1	1	1	0	5.3	4.2	-1.1	0	0	0	0	0	0	0	0
7/26/2024 22:37	61301	EARL_T1	0	0	0	0	0	0	-0.7	-0.7	1	1	0	900	900	0
7/26/2024 22:37	14404	SSLA_T1	1	1	0	4.9	5	0.1	0	0	0	0	0	0	0	0
7/26/2024 22:37	65604	QVIL_T2	3	4	1	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
7/26/2024 22:37	64101	REFR_T1	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
7/26/2024 22:37	23001	SAJO_T1	0	0	0	0	0	0	0.21	0.15	0	0	0	0	0	0
7/26/2024 22:37	10801	CHHI_T1	0	0	0	0	0	0	-1.13	-1.15	2	2	0	1500	1500	0
7/26/2024 22:37	47502	NECO_T1	1	1	0	0.8	0.7	-0.1	0.82	0.8	0	0	0	0	0	0
7/26/2024 22:37	43105	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/26/2024 22:37	55101	WERT_T1	0	0	0	0	0	0	-1.15	-1.17	2	2	0	1500	1500	0
7/26/2024 22:37	46803	HEPB_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
7/26/2024 22:38	55101	WERT_T1	0	0	0	0	0	0	-1.15	-1.17	2	2	0	1500	1500	0
7/26/2024 22:38	48301	ORWI_T1	2	2	0	3.25	3.45	0.2	0.45	0.41	0	0	0	0	0	0
7/26/2024 22:38	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
7/26/2024 22:38	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:38	46102	MACI_T1	0	0	0	0	0	0	0.86	0.85	0	0	0	0	0	0
7/26/2024 22:38	47502	NECO_T1	1	1	0	0.8	0.7	-0.1	0.82	0.8	0	0	0	0	0	0
7/26/2024 22:38	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:38	53902	HALI_T2	2	2	0	0.95	0.75	-0.2	-0.01	-0.02	0	0	0	0	0	0
7/26/2024 22:38	44301	BEAV_T2	0	0	0	0	0	0	-0.72	-0.73	1	1	0	600	600	0
7/26/2024 22:38	41902	REED_T1	3	0	-3	0.33	0	-0.33	1.14	1.1	0	0	0	0	0	0
7/26/2024 22:38	46801	HEPB_T2	2	0	-2	0.35	0	-0.35	0.77	0.76	0	0	0	0	0	0
7/26/2024 22:38	43202	MVIL_T2	87	94	7	0.73	0.86	0.13	-0.65	-0.65	0	0	0	0	0	0
7/26/2024 22:38	40801	EXCH_T2	0	0	0	0	0	0	-0.25	-0.25	1	1	0	1200	1200	0
7/26/2024 22:38	60101	COCA_T1	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
7/26/2024 22:38	53902	HALI_T2	1	1	0	5.2	4.7	-0.5	0	0	0	0	0	0	0	0
7/26/2024 22:38	55103	WERT_T1	1	1	0	5.3	4.2	-1.1	0	0	0	0	0	0	0	0
7/26/2024 22:38	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:39	65601	QVIL_T2	184	201	17	0.26	0.27	0.01	0	0	0	0	0	0	0	0
7/26/2024 22:39	65604	QVIL_T2	3	4	1	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
7/26/2024 22:39	46504	LOHA_T1	2	2	0	1.1	1.05	-0.05	0	0	0	0	0	0	0	0
7/26/2024 22:39	55001	NEWP_T1	0	0	0	0	0	0	-0.57	-0.61	0	0	0	0	0	0
7/26/2024 22:39	65603	QVIL_T2	326	236	-90	0.25	0.26	0.01	0.27	0.25	0	0	0	0	0	0
7/26/2024 22:39	52002	LING_T2	0	0	0	0	0	0	1.33	1.26	0	0	0	0	0	0
7/26/2024 22:39	52004	LING_T2	2	2	0	5.45	5.65	0.2	0	0	0	0	0	0	0	0
7/26/2024 22:39	55002	NEWP_T1	3	4	1	0.8	1.03	0.23	0	0	0	0	0	0	0	0
7/26/2024 22:39	46506	LOHA_T1	834	719	-115	0.95	0.73	-0.22	-1.89	-1.9	1	1	0	1200	1200	0
7/26/2024 22:39	58401	MORO_T1	0	0	0	0	0	0	-0.75	-0.78	1	1	0	600	600	0
7/26/2024 22:39	51204	MTON_T2	0	0	0	0	0	0	-0.28	-0.29	1	1	0	600	600	0
7/26/2024 22:39	65602	QVIL_T2	9	6	-3	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
7/26/2024 22:39	45501	DERR_T2	2	0	-2	1.2	0	-1.2	-1.15	-1.33	6	6	0	5400	5400	0
7/26/2024 22:40	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/26/2024 22:40	41001	LAUR_T2	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/26/2024 22:40	55101	WERT_T1	0	0	0	0	0	0	-2.3	-2.34	4	4	0	3000	3000	0
7/26/2024 22:40	46506	LOHA_T1	834	719	-115	0.95	0.73	-0.22	-1.89	-1.9	1	1	0	1200	1200	0
7/26/2024 22:40	53601	DALM_T2	1	1	0	0.2	0.6	0.4	-0.06	-0.08	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/26/2024 22:40	57403	SPAN_T1	5	23	18	0.12	0.26	0.14	0	0	0	0	0	0	0	0
7/26/2024 22:40	41002	LAUR_T2	1	1	0	1.3	1.5	0.2	0.23	0.22	0	0	0	0	0	0
7/26/2024 22:40	57401	SPAN_T1	0	0	0	0	0	0	-0.78	-0.83	1	1	0	600	600	0
7/26/2024 22:40	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:40	59101	WALK_T2	0	0	0	0	0	0	-0.19	-0.11	0	0	0	0	0	0
7/26/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
7/26/2024 22:40	64203	KINZ_T1	0	0	0	0	0	0	0.45	0.39	0	0	0	0	0	0
7/26/2024 22:40	64203	KINZ_T1	0	0	0	0	0	0	0.45	0.39	0	0	0	0	0	0
7/26/2024 22:40	64203	KINZ_T1	0	0	0	0	0	0	0.45	0.39	0	0	0	0	0	0
7/26/2024 22:40	64203	KINZ_T1	0	0	0	0	0	0	0.45	0.39	0	0	0	0	0	0
7/26/2024 22:40	64204	KINZ_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/26/2024 22:40	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:40	55103	WERT_T1	1	1	0	5.3	4.2	-1.1	0	0	0	0	0	0	0	0
7/26/2024 22:40	64201	KINZ_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
7/26/2024 22:40	42501	ALTA_T2	0	0	0	0	0	0	-1.04	-1.05	1	1	0	600	600	0
7/26/2024 22:40	46504	LOHA_T1	2	2	0	1.1	1.05	-0.05	0	0	0	0	0	0	0	0
7/26/2024 22:41	52403	GRPA_T2	2	2	0	0.15	0.6	0.45	0.02	-0.01	0	0	0	0	0	0
7/26/2024 22:41	48901	FOSP_T2	0	0	0	0	0	0	-0.53	-0.53	1	1	0	600	600	0
7/26/2024 22:41	63304	GREE_T1	0	0	0	0	0	0	-1.35	-1.38	0	0	0	0	0	0
7/26/2024 22:41	53501	EVIL_T2	1	0	-1	0.2	0	-0.2	-1.01	-1.03	2	2	0	1200	1200	0
7/26/2024 22:41	52402	GRPA_T2	3	3	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/26/2024 22:41	52404	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/26/2024 22:41	54001	SDLE_T1	1	1	0	0.8	1.3	0.5	0	0	1	1	0	600	600	0
7/26/2024 22:41	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/26/2024 22:41	63305	GREE_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/26/2024 22:41	52004	LING_T2	2	2	0	5.45	5.65	0.2	0	0	0	0	0	0	0	0
7/26/2024 22:41	52002	LING_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
7/26/2024 22:41	52401	GRPA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/26/2024 22:42	44302	BEAV_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
7/26/2024 22:42	52402	GRPA_T2	3	3	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/26/2024 22:42	52401	GRPA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/26/2024 22:42	44802	EDAN_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
7/26/2024 22:42	52403	GRPA_T2	2	2	0	0.15	0.6	0.45	0.02	-0.01	0	0	0	0	0	0
7/26/2024 22:42	52404	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/26/2024 22:42	44801	EDAN_T2	108	141	33	0.33	0.44	0.11	0	0	0	0	0	0	0	0
7/26/2024 22:43	55103	WERT_T1	1	1	0	5.3	4.2	-1.1	0	0	0	0	0	0	0	0
7/26/2024 22:43	55101	WERT_T1	0	0	0	0	0	0	-1.15	-1.17	2	2	0	1500	1500	0
7/26/2024 22:44	45501	DERR_T2	2	0	-2	1.2	0	-1.2	-0.38	-0.44	2	2	0	1800	1800	0
7/26/2024 22:44	52004	LING_T2	2	2	0	5.45	5.65	0.2	0.31	0.3	0	0	0	0	0	0
7/26/2024 22:50	64904	MILL_T1	0	0	0	0	0	0	0.01	-0.02	0	0	0	0	0	0
7/26/2024 22:51	43202	MVIL_T2	78	93	15	0.76	0.86	0.1	-0.65	-0.66	0	0	0	0	0	0
7/26/2024 22:57	13503	MCMI_T2	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
7/26/2024 23:10	40101	HUNT_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
7/26/2024 23:13	53903	HALI_T2	2	2	0	0.75	1.1	0.35	-0.02	-0.03	0	0	0	0	0	0
7/26/2024 23:13	53902	HALI_T2	1	1	0	4.7	5.7	1	0	0	0	0	0	0	0	0
7/26/2024 23:20	63804	HEMP_T1	1	1	0	5.8	5.7	-0.1	-0.06	-0.07	0	0	0	0	0	0
7/26/2024 23:55	65901	SAKR_T2	1	1	0	8.3	8.2	-0.1	-0.81	-0.85	1	1	0	900	900	0
7/27/2024 1:41	46206	DANV_T2	0	0	0	0	0	0	-0.25	-0.25	2	2	0	2100	2100	0
7/27/2024 2:36	29402	BELT_T1	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
7/27/2024 2:37	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/27/2024 2:37	29402	BELT_T1	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
7/27/2024 2:38	29402	BELT_T1	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
7/27/2024 2:40	29402	BELT_T1	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
7/27/2024 2:40	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/27/2024 6:13	63201	MGTN_T2	0	0	0	0	0	0	0.98	0.99	1	1	0	600	600	0
7/27/2024 6:40	67805	WLAN_T1	0	0	0	0	0	0	-1.52	-1.5	0	0	0	0	0	0
7/27/2024 6:50	56504	ROCK_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
7/27/2024 6:50	56501	ROCK_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
7/27/2024 6:55	29402	BELT_T1	1	1	0	8.9	8.8	-0.1	0	0	0	0	0	0	0	0
7/27/2024 6:55	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	1	1	0	900	900	0
7/27/2024 7:02	21206	ECAR_T2	1	1	0	7.6	7.3	-0.3	1.14	1.19	0	0	0	0	0	0
7/27/2024 7:02	21204	ECAR_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/27/2024 7:05	64204	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/27/2024 7:05	64201	KINZ_T1	0	1	1	0	0.5	0.5	0.65	0.66	0	0	0	0	0	0
7/27/2024 7:06	64203	KINZ_T1	0	0	0	0	0	0	1.64	0.83	0	1	1	0	600	600
7/27/2024 7:06	64204	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
7/27/2024 7:06	64201	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/27/2024 7:09	16301	ALPA_T1	2	2	0	0.35	0.25	-0.1	-0.4	-0.37	0	0	0	0	0	0
7/27/2024 7:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/27/2024 7:11	29402	BELT_T1	1	1	0	8.8	8.5	-0.3	0	0	0	0	0	0	0	0
7/27/2024 7:13	64904	MILL_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
7/27/2024 7:24	40302	TAMA_T3	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
7/27/2024 7:24	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 7:26	42501	ALTA_T2	0	0	0	0	0	0	-1.16	-1.13	1	1	0	600	600	0
7/27/2024 7:26	11903	ETEX_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
7/27/2024 7:31	53803	MBRG_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
7/27/2024 7:31	12006	HATF_T1	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
7/27/2024 7:34	46504	LOHA_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/27/2024 7:34	46506	LOHA_T1	774	747	-27	0.75	0.61	-0.14	-2.09	-2.08	2	2	0	2100	2100	0
7/27/2024 7:35	57403	SPAN_T1	5	0	-5	0.1	0	-0.1	0.08	0.08	0	0	0	0	0	0
7/27/2024 7:38	45901	AUBU_T1	0	0	0	0	0	0	1.06	1.07	0	0	0	0	0	0
7/27/2024 7:39	22003	BOHE_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/27/2024 7:39	22002	BOHE_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
7/27/2024 7:44	10504	CRAC_T1	0	0	0	0	0	0	0.91	0.94	0	0	0	0	0	0
7/27/2024 7:44	53601	DALM_T2	1	1	0	0.5	0.2	-0.3	-0.18	-0.17	0	0	0	0	0	0
7/27/2024 7:46	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
7/27/2024 7:51	44201	POIN_T1	122	102	-20	0.21	0.21	0	-2.01	-1.98	2	2	0	2100	2100	0
7/27/2024 7:52	44201	POIN_T1	122	102	-20	0.21	0.21	0	-2.01	-1.98	2	2	0	2100	2100	0
7/27/2024 7:53	44201	POIN_T1	122	102	-20	0.21	0.21	0	-2.01	-1.98	2	2	0	2100	2100	0
7/27/2024 7:54	58006	WCAR_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
7/27/2024 7:56	22002	BOHE_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
7/27/2024 7:56	22003	BOHE_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/27/2024 7:57	24902	WHHA_T1	2	2	0	1.3	1.2	-0.1	0.77	0.78	0	0	0	0	0	0
7/27/2024 8:04	43202	MVIL_T2	6	3	-3	0.15	0.2	0.05	-0.68	-0.68	0	0	0	0	0	0
7/27/2024 8:05	46102	MACJ_T1	0	0	0	0	0	0	0.81	0.68	0	0	0	0	0	0
7/27/2024 8:06	15603	NSTR_T2	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
7/27/2024 8:06	15601	NSTR_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/27/2024 8:10	22002	BOHE_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
7/27/2024 8:10	22003	BOHE_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/27/2024 8:10	45901	AUBU_T1	0	0	0	0	0	0	1.08	1.08	0	0	0	0	0	0
7/27/2024 8:13	60801	BUCK_T1	84	130	46	0.45	0.52	0.07	-0.1	-0.09	0	0	0	0	0	0
7/27/2024 8:13	60803	BUCK_T1	15	19	4	0.33	0.87	0.54	0	0	0	0	0	0	0	0
7/27/2024 8:19	13503	MCMI_T2	0	40	40	0	0.18	0.18	-0.01	-0.91	0	0	0	0	0	0
7/27/2024 8:21	41902	REED_T1	1	1	0	0.4	0	-0.4	0.87	0.89	0	0	0	0	0	0
7/27/2024 8:22	41902	REED_T1	1	1	0	0.4	0	-0.4	0.89	0.91	0	0	0	0	0	0
7/27/2024 8:24	24902	WHHA_T1	1	1	0	1.5	1.2	-0.3	0.78	0.79	0	0	0	0	0	0
7/27/2024 8:27	11102	EGYP_T1	1	1	0	0.2	0.6	0.4	-0.35	-0.32	0	0	0	0	0	0
7/27/2024 8:28	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 8:29	45602	WOOL_T1	1	0	-1	0.4	0	-0.4	0	0	1	1	0	900	900	0
7/27/2024 8:29	11102	EGYP_T1	1	1	0	0.2	0.6	0.4	-0.35	-0.32	0	0	0	0	0	0
7/27/2024 8:31	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 8:34	45602	WOOL_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/27/2024 8:35	56501	ROCK_T2	0	0	0	0	0	0	-2.32	-2.23	0	0	0	0	0	0
7/27/2024 8:36	65601	QVIL_T2	46	3	-43	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
7/27/2024 8:36	65602	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/27/2024 8:36	65604	QVIL_T2	3	0	-3	0.13	0	-0.13	0.51	0.52	0	0	0	0	0	0
7/27/2024 8:36	65603	QVIL_T2	12	0	-12	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/27/2024 8:37	56501	ROCK_T2	0	0	0	0	0	0	-1.12	-1.07	0	0	0	0	0	0
7/27/2024 8:40	48902	FOSP_T2	0	0	0	0	0	0	0.86	0.87	0	0	0	0	0	0
7/27/2024 8:46	47001	HUGH_T2	3	3	0	7.77	7.6	-0.17	-0.75	-0.73	0	0	0	0	0	0
7/27/2024 8:55	45501	DERR_T2	0	0	0	0	0	0	-0.8	-0.87	4	4	0	3600	3600	0
7/27/2024 8:55	20403	ASHF_T2	0	0	0	0	0	0	0.5	0.58	0	0	0	0	0	0
7/27/2024 9:00	46504	LOHA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/27/2024 9:00	46506	LOHA_T1	264	446	182	0.22	0.33	0.11	-4.18	-4.13	4	4	0	4200	4200	0
7/27/2024 9:02	40101	HUNT_T2	0	0	0	0	0	0	-0.63	-0.61	0	0	0	0	0	0
7/27/2024 9:05	65603	QVIL_T2	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
7/27/2024 9:06	57401	SPAN_T1	0	1	1	0	0	0	-2.36	-2.33	4	4	0	2400	2400	0
7/27/2024 9:08	67602	WARW_T2	0	0	0	0	0	0	1.82	1.69	4	4	0	3000	3000	0
7/27/2024 9:08	57401	SPAN_T1	0	1	1	0	0	0	-0.58	-0.63	1	1	0	600	600	0
7/27/2024 9:09	67602	WARW_T2	0	0	0	0	0	0	0.91	0.85	2	2	0	1500	1500	0
7/27/2024 9:09	53902	HALI_T2	1	1	0	4.4	4.5	0.1	-0.76	-0.74	0	0	0	0	0	0
7/27/2024 9:09	53903	HALI_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
7/27/2024 9:10	64602	LEOL_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
7/27/2024 9:10	67602	WARW_T2	0	0	0	0	0	0	0.91	0.85	2	2	0	1500	1500	0
7/27/2024 9:11	45902	AUBU_T1	0	0	0	0	0	0	-0.49	-0.38	0	0	0	0	0	0
7/27/2024 9:12	45902	AUBU_T1	0	0	0	0	0	0	-0.49	-0.38	0	0	0	0	0	0
7/27/2024 9:13	57401	SPAN_T1	0	1	1	0	0	0	-0.58	-0.63	1	1	0	600	600	0
7/27/2024 9:14	22002	BOHE_T1	0	0	0	0	0	0	0.42	0.48	0	0	0	0	0	0
7/27/2024 9:14	45902	AUBU_T1	0	0	0	0	0	0	-0.49	-0.38	0	0	0	0	0	0
7/27/2024 9:14	22003	BOHE_T1	1	3	2	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/27/2024 9:15	46504	LOHA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/27/2024 9:15	46506	LOHA_T1	259	431	172	0.26	0.31	0.05	-2.07	-2.04	2	2	0	2100	2100	0
7/27/2024 9:16	16401	MOPO_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/27/2024 9:16	16402	MOPO_T1	2	4	2	0.5	1.07	0.57	0.04	0.05	0	0	0	0	0	0
7/27/2024 9:16	61301	EARL_T1	0	0	0	0	0	0	-0.73	-0.72	1	1	0	900	900	0
7/27/2024 9:17	16401	MOPO_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/27/2024 9:17	16402	MOPO_T1	2	4	2	0.5	1.07	0.57	0.04	0.05	0	0	0	0	0	0
7/27/2024 9:18	46504	LOHA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/27/2024 9:18	46506	LOHA_T1	259	431	172	0.26	0.31	0.05	-2.07	-2.04	2	2	0	2100	2100	0
7/27/2024 9:19	46506	LOHA_T1	259	431	172	0.26	0.31	0.05	-2.07	-2.04	2	2	0	2100	2100	0
7/27/2024 9:19	46504	LOHA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/27/2024 9:22	42201	SHEN_T2	0	0	0	0	0	0	0.7	0.71	0	0	0	0	0	0
7/27/2024 9:23	20403	ASHF_T2	0	1	1	0	0	0	0.3	0.49	0	0	0	0	0	0
7/27/2024 9:24	20403	ASHF_T2	0	1	1	0	0	0	0.3	0.49	0	0	0	0	0	0
7/27/2024 9:26	46506	LOHA_T1	259	431	172	0.26	0.31	0.05	0	0	0	0	0	0	0	0
7/27/2024 9:26	46504	LOHA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/27/2024 9:26	46503	LOHA_T1	0	0	0	0	0	0	-1.51	-1.47	0	0	0	0	0	0
7/27/2024 9:35	14702	TREX_T2	0	0	0	0	0	0	0.76	0.79	0	0	0	0	0	0
7/27/2024 9:35	46506	LOHA_T1	415	278	-137	0.31	0.29	-0.02	-2.04	-2.02	2	2	0	2100	2100	0
7/27/2024 9:35	46504	LOHA_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/27/2024 9:36	14702	TREX_T2	0	0	0	0	0	0	1.57	1.62	0	0	0	0	0	0
7/27/2024 9:39	48302	ORWI_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
7/27/2024 9:42	45902	AUBU_T1	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/27/2024 9:45	57401	SPAN_T1	1	1	0	3.8	0	-3.8	-0.67	-0.53	1	1	0	600	600	0
7/27/2024 9:49	48302	ORWI_T2	0	2	2	0	0.55	0.55	0.09	-0.5	0	0	0	0	0	0
7/27/2024 9:50	42301	MOWR_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/27/2024 9:50	42302	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 9:53	48302	ORWI_T2	0	2	2	0	0.55	0.55	-0.5	-0.49	0	0	0	0	0	0
7/27/2024 9:53	43103	SMIL_T2	1	0	-1	0.1	0	-0.1	-5.92	-5.67	0	0	0	0	0	0
7/27/2024 9:54	29401	BELT_T1	1	0	-1	0.2	0	-0.2	0	0	1	1	0	900	900	0
7/27/2024 9:54	29402	BELT_T1	73	67	-6	0.55	0.57	0.02	0	0	0	0	0	0	0	0
7/27/2024 9:55	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 9:55	60801	BUCK_T1	27	4	-23	0.21	0.38	0.17	-0.05	-0.04	0	0	0	0	0	0
7/27/2024 9:55	60803	BUCK_T1	11	11	0	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
7/27/2024 9:55	45501	DERR_T2	1	1	0	0.4	0.2	-0.2	-0.64	-0.64	2	2	0	1800	1800	0
7/27/2024 9:56	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 9:56	45501	DERR_T2	1	1	0	0.4	0.2	-0.2	-0.64	-0.64	2	2	0	1800	1800	0
7/27/2024 10:00	57401	SPAN_T1	1	0	-1	2.4	0	-2.4	-0.53	-0.53	1	1	0	600	600	0
7/27/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
7/27/2024 10:00	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 10:00	40603	PIGR_T1	0	0	0	0	0	0	-0.1	-0.16	1	1	0	900	900	0
7/27/2024 10:00	40505	CRES_T1	3	3	0	3.4	4.03	0.63	0.48	0.5	0	0	0	0	0	0
7/27/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-3.75	-4.08	4	4	0	4200	4200	0
7/27/2024 10:00	52004	LING_T2	2	3	1	3.85	2.77	-1.08	0	0	0	0	0	0	0	0
7/27/2024 10:00	56501	ROCK_T2	1	1	0	0.6	1	0.4	-2.86	-2.78	0	0	0	0	0	0
7/27/2024 10:00	43201	MVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/27/2024 10:00	40602	PIGR_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/27/2024 10:00	43202	MVIL_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
7/27/2024 10:00	61302	EARL_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
7/27/2024 10:00	65604	QVIL_T2	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
7/27/2024 10:00	24901	WHHA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/27/2024 10:00	65603	QVIL_T2	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
7/27/2024 10:00	24902	WHHA_T1	1	1	0	1.4	1.7	0.3	0.82	0.83	0	0	0	0	0	0
7/27/2024 10:00	52002	LING_T2	0	0	0	0	0	0	0.73	0.82	0	0	0	0	0	0
7/27/2024 10:00	40302	TAMA_T3	0	0	0	0	0	0	-1.15	-1.14	1	1	0	1200	1200	0
7/27/2024 10:00	61301	EARL_T1	0	0	0	0	0	0	-0.69	-0.65	1	1	0	900	900	0
7/27/2024 10:06	57401	SPAN_T1	1	0	-1	2.4	0	-2.4	-0.53	-0.53	1	1	0	600	600	0
7/27/2024 10:08	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 10:08	24901	WHHA_T1	1	0	-1	0.2	0	-0.2	-0.65	-0.64	0	0	0	0	0	0
7/27/2024 10:08	24902	WHHA_T1	1	1	0	1.4	1.7	0.3	0	0	0	0	0	0	0	0
7/27/2024 10:08	57401	SPAN_T1	1	0	-1	2.4	0	-2.4	-0.53	-0.54	1	1	0	600	600	0
7/27/2024 10:08	56501	ROCK_T2	1	1	0	0.6	1	0.4	-0.93	-0.9	0	0	0	0	0	0
7/27/2024 10:08	43103	SMIL_T2	0	0	0	0	0	0	-3.78	-3.93	0	0	0	0	0	0
7/27/2024 10:08	64101	REFR_T1	0	1	1	0	0	0	0.2	0.31	0	0	0	0	0	0
7/27/2024 10:09	56501	ROCK_T2	1	1	0	0.6	1	0.4	-0.93	-0.9	0	0	0	0	0	0
7/27/2024 10:09	20403	ASHF_T2	0	0	0	0	0	0	1.39	1.48	0	0	0	0	0	0
7/27/2024 10:09	24901	WHHA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/27/2024 10:09	57403	SPAN_T1	1	0	-1	2.4	0	-2.4	-1.6	-1.61	3	3	0	1800	1800	0
7/27/2024 10:09	43103	SMIL_T2	0	0	0	0	0	0	-1.89	-1.96	0	0	0	0	0	0
7/27/2024 10:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/27/2024 10:09	24902	WHHA_T1	1	1	0	1.4	1.7	0.3	0.83	0.84	0	0	0	0	0	0
7/27/2024 10:09	20401	ASHF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/27/2024 10:09	29402	BELT_T1	65	57	-8	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
7/27/2024 10:09	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 10:10	58006	WCAR_T2	0	0	0	0	0	0	-0.81	-0.79	0	0	0	0	0	0
7/27/2024 10:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/27/2024 10:10	29402	BELT_T1	65	57	-8	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
7/27/2024 10:11	60801	BUCK_T1	4	4	0	0.35	0.3	-0.05	-0.04	-0.03	0	0	0	0	0	0
7/27/2024 10:11	20403	ASHF_T2	0	0	0	0	0	0	0.46	0.49	0	0	0	0	0	0
7/27/2024 10:11	53601	DALM_T2	1	4	3	0.5	0.1	-0.4	-0.1	-0.1	0	0	0	0	0	0
7/27/2024 10:11	10602	BLGL_T2	0	1	1	0	0	0	0.37	0.4	0	0	0	0	0	0
7/27/2024 10:11	67602	WARW_T2	0	0	0	0	0	0	0.92	0.9	2	2	0	1500	1500	0
7/27/2024 10:11	20401	ASHF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/27/2024 10:11	60803	BUCK_T1	10	11	1	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
7/27/2024 10:11	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 10:11	46206	DANV_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/27/2024 10:11	46203	DANV_T2	0	0	0	0	0	0	-1.82	-1.83	0	0	0	0	0	0
7/27/2024 10:12	20401	ASHF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/27/2024 10:12	10801	CHHI_T1	5	7	2	0.72	0.87	0.15	-1.51	-1.45	3	3	0	2100	2100	0
7/27/2024 10:12	20403	ASHF_T2	0	0	0	0	0	0	0.46	0.49	0	0	0	0	0	0
7/27/2024 10:13	67602	WARW_T2	0	0	0	0	0	0	0.92	0.9	2	2	0	1500	1500	0
7/27/2024 10:13	14702	TREX_T2	0	0	0	0	0	0	1.66	1.71	0	0	0	0	0	0
7/27/2024 10:16	42302	MOWR_T2	1	1	0	5.8	0	-5.8	0	0	0	0	0	0	0	0
7/27/2024 10:16	20603	GRWO_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
7/27/2024 10:16	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 10:17	16402	MOPO_T1	2	10	8	0.6	0.75	0.15	0.08	0.27	0	0	0	0	0	0
7/27/2024 10:17	16401	MOPO_T1	2	2	0	0.85	0	-0.85	0	0	0	0	0	0	0	0
7/27/2024 10:19	48901	FOSP_T2	0	0	0	0	0	0	-0.54	-0.53	1	1	0	600	600	0
7/27/2024 10:19	25501	MADI_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/27/2024 10:19	25502	MADI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/27/2024 10:19	42302	MOWR_T2	1	1	0	5.8	0	-5.8	0	0	0	0	0	0	0	0
7/27/2024 10:19	25503	MADI_T1	1	3	2	0.5	0.33	-0.17	-0.8	-0.78	0	0	0	0	0	0
7/27/2024 10:19	25402	LAHA_T2	0	0	0	0	0	0	-0.34	-0.28	0	0	0	0	0	0
7/27/2024 10:19	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 10:20	42201	SHEN_T2	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
7/27/2024 10:20	67602	WARW_T2	0	0	0	0	0	0	0.92	0.9	2	2	0	1500	1500	0
7/27/2024 10:21	13303	ORVI_T1	0	0	0	0	0	0	1.07	1.09	0	0	0	0	0	0
7/27/2024 10:21	16402	MOPO_T1	2	10	8	0.6	0.75	0.15	0.08	0.27	0	0	0	0	0	0
7/27/2024 10:21	16605	PONO_T1	0	0	0	0	0	0	-0.35	-0.32	1	1	0	1200	1200	0
7/27/2024 10:21	16401	MOPO_T1	2	2	0	0.85	0	-0.85	0	0	0	0	0	0	0	0
7/27/2024 10:22	56501	ROCK_T2	1	1	0	1	0.7	-0.3	-1.8	-1.74	0	0	0	0	0	0
7/27/2024 10:23	41902	REED_T1	0	0	0	0	0	0	2.14	2.19	0	0	0	0	0	0
7/27/2024 10:25	42201	SHEN_T2	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
7/27/2024 10:25	16103	BING_T2	0	0	0	0	0	0	-0.76	-0.74	1	1	0	600	600	0
7/27/2024 10:25	29402	BELT_T1	55	51	-4	0.49	0.51	0.02	0	0	0	0	0	0	0	0
7/27/2024 10:27	14702	TREX_T2	0	0	0	0	0	0	0.85	0.88	0	0	0	0	0	0
7/27/2024 10:30	45602	WOOL_T1	1	1	0	0.9	1	0.1	0	0	1	1	0	900	900	0
7/27/2024 10:30	67602	WARW_T2	0	0	0	0	0	0	0.9	0.89	2	2	0	1500	1500	0
7/27/2024 10:31	52002	LING_T2	0	1	1	0	0	0	0.86	0.92	0	0	0	0	0	0
7/27/2024 10:31	45602	WOOL_T1	1	1	0	0.9	1	0.1	0	0	1	1	0	900	900	0
7/27/2024 10:31	22901	HARW_T1	0	1	1	0	0	0	-0.44	-0.47	1	1	0	1200	1200	0
7/27/2024 10:31	52004	LING_T2	3	3	0	2.77	2.73	-0.04	0	0	0	0	0	0	0	0
7/27/2024 10:31	22903	HARW_T1	21	21	0	1.42	0.81	-0.61	0	0	0	0	0	0	0	0
7/27/2024 10:34	52002	LING_T2	0	1	1	0	0	0	0.43	0.46	0	0	0	0	0	0
7/27/2024 10:34	52004	LING_T2	3	3	0	2.77	2.73	-0.04	0	0	0	0	0	0	0	0
7/27/2024 10:35	52002	LING_T2	0	1	1	0	0	0	0.86	0.92	0	0	0	0	0	0
7/27/2024 10:35	52004	LING_T2	3	3	0	2.77	2.73	-0.04	0	0	0	0	0	0	0	0
7/27/2024 10:36	64203	KINZ_T1	0	0	0	0	0	0	1.27	1.35	1	1	0	600	600	0
7/27/2024 10:36	64201	KINZ_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/27/2024 10:36	64204	KINZ_T1	1	1	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
7/27/2024 10:39	60201	ATGL_T2	0	0	0	0	0	0	0.38	0.48	0	0	0	0	0	0
7/27/2024 10:40	60201	ATGL_T2	0	0	0	0	0	0	0.38	0.48	0	0	0	0	0	0
7/27/2024 10:40	45902	AUBU_T1	2	5	3	0.25	0.73	0.48	-0.92	-0.89	1	1	0	600	600	0
7/27/2024 10:43	45902	AUBU_T1	2	5	3	0.25	0.73	0.48	-0.92	-0.89	1	1	0	600	600	0
7/27/2024 10:43	46803	HEPB_T2	1	1	0	0.4	0.7	0.3	0.65	0.58	0	0	0	0	0	0
7/27/2024 10:44	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/27/2024 10:44	29402	BELT_T1	50	128	78	0.49	0.99	0.5	0	0	0	0	0	0	0	0
7/27/2024 10:45	46803	HEPB_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/27/2024 10:45	46801	HEPB_T2	0	0	0	0	0	0	0.81	0.84	0	0	0	0	0	0
7/27/2024 10:45	45802	HEGI_T2	28	0	-28	0.59	0	-0.59	0.38	0.57	0	0	0	0	0	0
7/27/2024 10:47	46506	LOHA_T1	4	17	13	0.3	0.39	0.09	-1.94	-1.92	2	2	0	2100	2100	0
7/27/2024 10:48	46506	LOHA_T1	4	17	13	0.3	0.39	0.09	-1.94	-1.92	2	2	0	2100	2100	0
7/27/2024 10:48	45802	HEGI_T2	28	0	-28	0.59	0	-0.59	0.38	0.57	0	0	0	0	0	0
7/27/2024 10:49	46506	LOHA_T1	4	17	13	0.3	0.39	0.09	-1.94	-1.92	2	2	0	2100	2100	0
7/27/2024 10:50	46506	LOHA_T1	4	17	13	0.3	0.39	0.09	-3.87	-3.83	4	4	0	4200	4200	0
7/27/2024 10:56	45501	DERR_T2	1	0	-1	0.1	0	-0.1	-0.85	-0.78	4	4	0	3600	3600	0
7/27/2024 10:57	53601	DALM_T2	4	4	0	0.5	0.6	0.1	-0.08	-0.07	0	0	0	0	0	0
7/27/2024 10:58	45501	DERR_T2	1	0	-1	0.1	0	-0.1	-0.43	-0.39	2	2	0	1800	1800	0
7/27/2024 10:59	10801	CHHI_T1	5	6	1	0.74	0.9	0.16	-1.5	-1.46	3	3	0	2100	2100	0
7/27/2024 11:00	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
7/27/2024 11:03	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
7/27/2024 11:03	64305	LINC_T1	1	0	-1	0.9	0	-0.9	0.03	-0.04	0	0	0	0	0	0
7/27/2024 11:05	52501	PROG_T1	3	2	-1	0.53	0.75	0.22	-1.07	-1.05	1	1	0	300	300	0
7/27/2024 11:07	51204	MTON_T2	0	1	1	0	0	0	-0.25	-0.24	1	1	0	600	600	0
7/27/2024 11:08	65205	PRIN_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
7/27/2024 11:09	10805	CHHI_T2	1	6	5	8.5	8.4	-0.1	-1.18	-1.16	1	1	0	600	600	0
7/27/2024 11:10	15603	NSTR_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
7/27/2024 11:11	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 11:11	42503	ALTA_T2	0	0	0	0	0	0	-0.96	-0.94	0	0	0	0	0	0
7/27/2024 11:11	64904	MILL_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
7/27/2024 11:11	10805	CHHI_T2	1	6	5	8.5	8.4	-0.1	-1.18	-1.16	1	1	0	600	600	0
7/27/2024 11:11	14702	TREX_T2	0	0	0	0	0	0	0.92	0.94	0	0	0	0	0	0
7/27/2024 11:13	67605	WARW_T1	1	1	0	0.3	0.5	0.2	-0.92	-0.9	0	0	0	0	0	0
7/27/2024 11:14	29402	BELT_T1	128	281	153	0.99	1.16	0.17	0	0	0	0	0	0	0	0
7/27/2024 11:14	29401	BELT_T1	1	2	1	0.1	0.2	0.1	0	0	1	1	0	900	900	0
7/27/2024 11:14	53601	DALM_T2	4	4	0	0.6	0.4	-0.2	-0.07	-0.07	0	0	0	0	0	0
7/27/2024 11:16	41001	LAUR_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/27/2024 11:16	41002	LAUR_T2	1	4	3	0.6	0.43	-0.17	0.22	0.23	0	0	0	0	0	0
7/27/2024 11:17	63804	HEMP_T1	1	1	0	6.4	6.7	0.3	-0.24	-0.23	0	0	0	0	0	0
7/27/2024 11:18	65005	NEFF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/27/2024 11:18	65001	NEFF_T2	0	0	0	0	0	0	-0.63	-0.59	1	1	0	1200	1200	0
7/27/2024 11:19	40901	JESH_T1	1	1	0	1.7	1.8	0.1	-1.29	-1.25	2	2	0	1500	1500	0
7/27/2024 11:20	13503	MCMI_T2	3	3	0	0.43	0.3	-0.13	-0.78	-0.77	0	0	0	0	0	0
7/27/2024 11:24	16103	BING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/27/2024 11:24	16603	PONO_T2	0	0	0	0	0	0	-0.25	-0.24	1	1	0	1200	1200	0
7/27/2024 11:24	16102	BING_T2	1	0	-1	0.4	0	-0.4	-0.39	-0.27	1	1	0	1200	1200	0
7/27/2024 11:29	47002	HUGH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 11:29	47001	HUGH_T2	3	3	0	6.27	8.07	1.8	-1.4	-1.38	1	1	0	900	900	0
7/27/2024 11:33	47001	HUGH_T2	3	4	1	7.3	6.15	-1.15	-1.4	-1.38	1	1	0	900	900	0
7/27/2024 11:34	57303	MOAL_T2	1	1	0	8.5	8.4	-0.1	0	0	0	0	0	0	0	0
7/27/2024 11:34	57304	MOAL_T2	0	0	0	0	0	0	-0.3	-0.35	0	0	0	0	0	0
7/27/2024 11:38	44301	BEAV_T2	0	1	1	0	0.5	0.5	-0.66	-0.65	1	1	0	600	600	0
7/27/2024 11:38	44302	BEAV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/27/2024 11:41	44801	EDAN_T2	7	6	-1	0.27	0.28	0.01	-1.28	-1.34	0	0	0	0	0	0
7/27/2024 11:41	10805	CHHI_T2	6	1	-5	1.78	8.6	6.82	-1.99	-2.19	2	2	0	1200	1200	0
7/27/2024 11:43	44301	BEAV_T2	0	1	1	0	0.5	0.5	-0.66	-0.65	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/27/2024 11:43	44302	BEAV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/27/2024 11:44	64303	LINC_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
7/27/2024 11:44	64305	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 11:44	44801	EDAN_T2	7	6	-1	0.27	0.28	0.01	-1.28	-1.34	0	0	0	0	0	0
7/27/2024 11:45	64305	LINC_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/27/2024 11:45	64303	LINC_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
7/27/2024 11:45	21204	ECAR_T2	1	1	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
7/27/2024 11:45	21206	ECAR_T2	8	9	1	1.61	1.53	-0.08	0	0	0	0	0	0	0	0
7/27/2024 11:46	64303	LINC_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
7/27/2024 11:46	64305	LINC_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/27/2024 11:48	66901	SHIL_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
7/27/2024 11:48	66903	SHIL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/27/2024 11:49	12605	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/27/2024 11:49	52403	GRPA_T2	5	13	8	0.82	1.03	0.21	-0.45	-0.42	0	0	0	0	0	0
7/27/2024 11:49	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/27/2024 11:49	64204	KINZ_T1	1	2	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
7/27/2024 11:49	12601	MACA_T1	2	2	0	0.65	1.15	0.5	0	0	0	0	0	0	0	0
7/27/2024 11:49	12604	MACA_T1	1	2	1	0.2	0.4	0.2	0.68	0.71	0	0	0	0	0	0
7/27/2024 11:49	12606	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 11:49	64201	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/27/2024 11:49	64203	KINZ_T1	0	0	0	0	0	0	0.55	0.61	2	1	-1	900	600	-300
7/27/2024 11:49	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/27/2024 11:49	12602	MACA_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
7/27/2024 11:50	41002	LAUR_T2	4	4	0	0.35	0.65	0.3	0.23	0.24	0	0	0	0	0	0
7/27/2024 11:50	41001	LAUR_T2	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/27/2024 11:51	52403	GRPA_T2	5	13	8	0.82	1.03	0.21	-0.23	-0.21	0	0	0	0	0	0
7/27/2024 11:51	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/27/2024 11:56	14702	TREX_T2	0	0	0	0	0	0	0.99	1.01	0	0	0	0	0	0
7/27/2024 11:57	15603	NSTR_T2	0	0	0	0	0	0	-0.54	-1.12	0	0	0	0	0	0
7/27/2024 11:58	42302	MOWR_T2	1	1	0	0.7	1.7	1	0	0	0	0	0	0	0	0
7/27/2024 11:59	42302	MOWR_T2	1	1	0	0.7	1.7	1	0	0	0	0	0	0	0	0
7/27/2024 11:59	60201	ATGL_T2	0	0	0	0	0	0	0.66	0.58	0	0	0	0	0	0
7/27/2024 12:00	42302	MOWR_T2	1	1	0	2.4	0.5	-1.9	0	0	0	0	0	0	0	0
7/27/2024 12:01	29402	BELT_T1	117	117	0	1.18	1.24	0.06	0	0	0	0	0	0	0	0
7/27/2024 12:01	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/27/2024 12:02	64802	MONE_T2	2	2	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
7/27/2024 12:02	64801	MONE_T2	2	0	-2	0.15	0	-0.15	-0.13	-0.12	0	0	0	0	0	0
7/27/2024 12:02	42302	MOWR_T2	1	1	0	2.4	0.5	-1.9	0	0	0	0	0	0	0	0
7/27/2024 12:03	64802	MONE_T2	2	2	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
7/27/2024 12:03	64801	MONE_T2	2	0	-2	0.15	0	-0.15	-0.13	-0.12	0	0	0	0	0	0
7/27/2024 12:05	42802	SELI_T1	0	0	0	0	0	0	-0.46	-0.42	1	1	0	900	900	0
7/27/2024 12:05	64101	REFR_T1	3	10	7	1.2	1.19	-0.01	0.36	0.37	0	0	0	0	0	0
7/27/2024 12:06	64101	REFR_T1	3	10	7	1.2	1.19	-0.01	0.74	0.76	0	0	0	0	0	0
7/27/2024 12:07	64101	REFR_T1	3	10	7	1.2	1.19	-0.01	0.74	0.76	0	0	0	0	0	0
7/27/2024 12:09	64101	REFR_T1	3	10	7	1.2	1.19	-0.01	1.47	1.52	0	0	0	0	0	0
7/27/2024 12:09	42701	AUGU_T1	6	7	1	0.53	0.34	-0.19	0	0	2	2	0	1800	1800	0
7/27/2024 12:10	60201	ATGL_T2	0	0	0	0	0	0	0.58	0.63	0	0	0	0	0	0
7/27/2024 12:10	42802	SELI_T1	0	0	0	0	0	0	-0.42	-0.4	1	1	0	900	900	0
7/27/2024 12:10	15803	WGAT_T1	0	0	0	0	0	0	1.62	1.62	0	0	0	0	0	0
7/27/2024 12:10	42701	AUGU_T1	6	7	1	0.53	0.34	-0.19	0	0	2	2	0	1800	1800	0
7/27/2024 12:10	20401	ASHF_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
7/27/2024 12:10	20402	ASHF_T2	0	6	6	0	0.17	0.17	0	0	0	0	0	0	0	0
7/27/2024 12:10	20403	ASHF_T2	0	1	1	0	0	0	0.68	0.74	0	0	0	0	0	0
7/27/2024 12:11	42802	SELI_T1	0	0	0	0	0	0	-0.42	-0.4	1	1	0	900	900	0
7/27/2024 12:11	42701	AUGU_T1	6	7	1	0.53	0.34	-0.19	0	0	2	2	0	1800	1800	0
7/27/2024 12:11	55101	WERT_T1	0	0	0	0	0	0	-3.95	-4.12	8	8	0	6600	6600	0
7/27/2024 12:11	61701	ELIZ_T1	2	2	0	0.9	1.55	0.65	0	0	0	0	0	0	0	0
7/27/2024 12:11	61703	ELIZ_T1	0	0	0	0	0	0	-2.06	-2.05	2	2	0	2100	2100	0
7/27/2024 12:13	42701	AUGU_T1	6	7	1	0.53	0.34	-0.19	0	0	2	2	0	1800	1800	0
7/27/2024 12:14	40201	BEGA_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/27/2024 12:16	47001	HUGH_T2	4	3	-1	5.75	7.37	1.62	-1.34	-1.32	1	1	0	900	900	0
7/27/2024 12:16	61703	ELIZ_T1	0	0	0	0	0	0	-4.12	-4.09	4	4	0	4200	4200	0
7/27/2024 12:16	61701	ELIZ_T1	2	2	0	1.55	1.25	-0.3	0	0	0	0	0	0	0	0
7/27/2024 12:16	22901	HARW_T1	15	16	1	0.34	0.7	0.36	-0.47	-0.52	1	1	0	1200	1200	0
7/27/2024 12:16	22903	HARW_T1	3	7	4	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
7/27/2024 12:18	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 12:18	42302	MOWR_T2	1	2	1	1.7	0	-1.7	0	0	0	0	0	0	0	0
7/27/2024 12:19	15604	NSTR_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
7/27/2024 12:20	57401	SPAN_T1	0	0	0	0	0	0	-0.35	-0.85	1	1	0	600	600	0
7/27/2024 12:20	15604	NSTR_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
7/27/2024 12:20	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 12:21	52403	GRPA_T2	12	13	1	0.63	0.94	0.31	0	0	0	0	0	0	0	0
7/27/2024 12:21	52401	GRPA_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
7/27/2024 12:22	40602	PIGR_T1	1	1	0	0.7	0.9	0.2	-0.83	-0.79	1	1	0	600	600	0
7/27/2024 12:22	57404	SPAN_T2	0	0	0	0	0	0	-0.9	-0.96	1	1	0	1200	1200	0
7/27/2024 12:22	64101	REFR_T1	10	10	0	1.19	2.24	1.05	0.38	0.39	0	0	0	0	0	0
7/27/2024 12:22	40603	PIGR_T1	3	3	0	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
7/27/2024 12:22	57401	SPAN_T1	0	0	0	0	0	0	-0.85	-0.79	1	1	0	600	600	0
7/27/2024 12:22	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 12:23	57401	SPAN_T1	0	0	0	0	0	0	-0.85	-0.79	1	1	0	600	600	0
7/27/2024 12:23	66901	SHIL_T2	0	0	0	0	0	0	0.21	0.28	0	0	0	0	0	0
7/27/2024 12:23	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 12:23	66903	SHIL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/27/2024 12:23	21206	ECAR_T2	9	19	10	1.12	1.52	0.4	0.25	0.25	0	0	0	0	0	0
7/27/2024 12:23	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 12:24	55105	WERT_T1	0	0	0	0	0	0	0.17	0.17	1	1	0	900	900	0
7/27/2024 12:24	64101	REFR_T1	10	10	0	1.19	2.24	1.05	0.38	0.39	0	0	0	0	0	0
7/27/2024 12:25	20403	ASHF_T2	0	1	1	0	0.3	0.3	0.74	0.75	0	0	0	0	0	0
7/27/2024 12:25	20401	ASHF_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/27/2024 12:25	20402	ASHF_T2	6	3	-3	0.63	0	-0.63	0	0	0	0	0	0	0	0
7/27/2024 12:26	45902	AUBU_T1	4	5	1	0.7	0.6	-0.1	-0.77	-0.81	1	1	0	600	600	0
7/27/2024 12:27	59101	WALK_T2	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
7/27/2024 12:27	60102	COCA_T1	0	0	0	0	0	0	-0.54	-0.32	2	2	0	1200	1200	0
7/27/2024 12:27	60101	COCA_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
7/27/2024 12:28	60101	COCA_T1	1	1	0	0.7	0.7	0	0.9	0.91	0	0	0	0	0	0
7/27/2024 12:30	40102	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.37	-0.37	0	0	0	0	0	0
7/27/2024 12:30	40201	BEGA_T2	1	3	2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/27/2024 12:31	13503	MCMI_T2	1	5	4	1	0.48	-0.52	-0.72	-0.7	0	0	0	0	0	0
7/27/2024 12:34	65401	MARI_T1	9	17	8	1.42	2.01	0.59	0	0	0	0	0	0	0	0
7/27/2024 12:34	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 12:37	52401	GRPA_T2	0	1	1	0	0	0	-0.39	-0.37	0	0	0	0	0	0
7/27/2024 12:37	52403	GRPA_T2	8	17	9	0.7	0.98	0.28	0	0	0	0	0	0	0	0
7/27/2024 12:39	15201	SFAR_T1	0	0	0	0	0	0	0.44	0.47	2	2	0	1800	1800	0
7/27/2024 12:39	67804	WLAN_T1	10	10	0	1.06	0.89	-0.17	0	0	0	0	0	0	0	0
7/27/2024 12:39	67801	WLAN_T1	1	3	2	0.2	0	-0.2	-0.8	-0.7	0	0	0	0	0	0
7/27/2024 12:40	40201	BEGA_T2	1	3	2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/27/2024 12:40	45902	AUBU_T1	4	5	1	0.58	0.44	-0.14	-0.81	-0.79	1	1	0	600	600	0
7/27/2024 12:41	20403	ASHF_T2	1	1	0	0.6	0	-0.6	0.75	0.81	0	0	0	0	0	0
7/27/2024 12:41	20401	ASHF_T2	1	4	3	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
7/27/2024 12:41	20402	ASHF_T2	3	3	0	0.17	0	-0.17	0	0	0	0	0	0	0	0
7/27/2024 12:43	25603	ARRO_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
7/27/2024 12:44	10801	CHHI_T1	8	12	4	0.78	0.63	-0.15	-1.3	-1.28	3	3	0	2100	2100	0
7/27/2024 12:47	64302	LINC_T2	3	3	0	0.37	0.3	-0.07	1.39	1.41	0	0	0	0	0	0
7/27/2024 12:47	64304	LINC_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 12:48	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/27/2024 12:48	65205	PRIN_T1	1	3	2	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
7/27/2024 12:50	61102	BERK_T5	0	0	0	0	0	0	0.54	0.51	1	1	0	300	300	0
7/27/2024 12:51	65901	SAKR_T2	1	1	0	5.9	6.3	0.4	-0.57	-0.66	2	2	0	1500	1500	0
7/27/2024 12:51	52501	PROG_T1	0	2	2	0	0.6	0.6	-0.96	-0.95	1	1	0	300	300	0
7/27/2024 12:53	42802	SELI_T1	0	0	0	0	0	0	-0.39	-0.36	1	1	0	900	900	0
7/27/2024 12:53	57401	SPAN_T1	0	0	0	0	0	0	-0.73	-0.82	1	1	0	600	600	0
7/27/2024 12:53	44203	POIN_T2	7	9	2	1.46	1.21	-0.25	0.72	0.79	1	1	0	900	900	0
7/27/2024 12:57	13503	MCMI_T2	2	5	3	0.5	0.56	0.06	-0.69	-0.68	0	0	0	0	0	0
7/27/2024 13:00	61102	BERK_T5	0	0	0	0	0	0	0.51	0.43	1	1	0	300	300	0
7/27/2024 13:01	45902	AUBU_T1	4	5	1	0.45	0.33	-0.12	-0.79	-0.85	1	1	0	600	600	0
7/27/2024 13:15	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 13:15	57401	SPAN_T1	0	1	1	0	0	0	-0.82	-0.81	1	1	0	600	600	0
7/27/2024 13:44	12701	MACU_T1	0	1	1	0	0.2	0.2	-1.51	-1.49	2	2	0	2400	2400	0
7/27/2024 13:45	12701	MACU_T1	1	1	0	0.2	0	-0.2	-0.76	-0.74	1	1	0	1200	1200	0
7/27/2024 13:46	12701	MACU_T1	1	1	0	0.2	0	-0.2	-0.76	-0.74	1	1	0	1200	1200	0
7/27/2024 14:43	12704	MACU_T1	0	0	0	0	0	0	-0.74	-0.65	1	1	0	600	600	0
7/27/2024 15:39	21202	ECAR_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
7/27/2024 15:39	21206	ECAR_T2	1	1	0	6.6	7.3	0.7	0.39	0.31	0	0	0	0	0	0
7/27/2024 15:39	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 16:45	12704	MACU_T1	5	5	0	0.38	0.94	0.56	0	0	0	0	0	0	0	0
7/27/2024 16:45	12701	MACU_T1	1	2	1	0.8	0.9	0.1	-0.67	-0.69	1	1	0	1200	1200	0
7/27/2024 18:17	51204	MTON_T2	0	0	0	0	0	0	-0.08	-0.08	1	1	0	600	600	0
7/27/2024 20:08	24901	WHHA_T1	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
7/27/2024 20:08	24902	WHHA_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 20:11	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
7/27/2024 20:15	10801	CHHI_T1	0	0	0	0	0	0	-1.34	-1.38	3	3	0	2100	2100	0
7/27/2024 20:20	16402	MOPO_T1	1	0	-1	0.3	0	-0.3	0.27	0.11	0	0	0	0	0	0
7/27/2024 20:21	56501	ROCK_T2	4	3	-1	0.2	0.17	-0.03	-1.83	-1.85	0	0	0	0	0	0
7/27/2024 20:22	56501	ROCK_T2	4	3	-1	0.2	0.17	-0.03	-1.85	-1.87	0	0	0	0	0	0
7/27/2024 20:23	25402	LAHA_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
7/27/2024 20:23	42201	SHEN_T2	0	0	0	0	0	0	0.22	0.21	1	1	0	600	600	0
7/27/2024 20:23	56501	ROCK_T2	4	3	-1	0.2	0.17	-0.03	-1.85	-1.87	0	0	0	0	0	0
7/27/2024 20:24	56501	ROCK_T2	4	3	-1	0.2	0.17	-0.03	-1.85	-1.87	0	0	0	0	0	0
7/27/2024 20:24	42201	SHEN_T2	0	0	0	0	0	0	0.22	0.21	1	1	0	600	600	0
7/27/2024 20:25	56501	ROCK_T2	4	3	-1	0.2	0.17	-0.03	-1.85	-1.87	0	0	0	0	0	0
7/27/2024 20:25	16402	MOPO_T1	1	0	-1	0.3	0	-0.3	0.11	0.25	0	0	0	0	0	0
7/27/2024 20:26	56501	ROCK_T2	4	3	-1	0.2	0.17	-0.03	-1.85	-1.87	0	0	0	0	0	0
7/27/2024 20:27	67602	WARW_T2	0	0	0	0	0	0	0.85	0.82	2	2	0	1500	1500	0
7/27/2024 20:29	29401	BELT_T1	1	9	8	0.1	0.11	0.01	0	0	1	1	0	900	900	0
7/27/2024 20:29	67602	WARW_T2	0	0	0	0	0	0	0.85	0.82	2	2	0	1500	1500	0
7/27/2024 20:29	29402	BELT_T1	195	208	13	1.31	1.3	-0.01	0	0	0	0	0	0	0	0
7/27/2024 20:30	67602	WARW_T2	0	0	0	0	0	0	0.85	0.82	2	2	0	1500	1500	0
7/27/2024 20:31	56501	ROCK_T2	0	3	3	0	0.2	0.2	-1.85	-1.87	0	0	0	0	0	0
7/27/2024 20:33	67602	WARW_T2	0	0	0	0	0	0	0.85	0.82	2	2	0	1500	1500	0
7/27/2024 20:43	60201	ATGL_T2	0	0	0	0	0	0	0.82	0.67	0	0	0	0	0	0
7/27/2024 20:46	20603	GRWO_T2	0	3	3	0	0.13	0.13	-0.43	-0.39	1	1	0	900	900	0
7/27/2024 20:47	46801	HEPB_T2	33	40	7	0.3	0.31	0.01	0	0	0	0	0	0	0	0
7/27/2024 20:47	46803	HEPB_T2	8	11	3	0.2	0.19	-0.01	0.66	0.61	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/27/2024 20:49	45802	HEGI_T2	48	48	0	2.35	2.35	0	-0.16	-0.21	0	0	0	0	0	0
7/27/2024 20:49	46803	HEPB_T2	8	11	3	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
7/27/2024 20:49	46801	HEPB_T2	33	40	7	0.3	0.31	0.01	0.02	0	0	0	0	0	0	0
7/27/2024 20:52	45802	HEGI_T2	48	48	0	2.35	2.35	0	-0.21	0.69	0	0	0	0	0	0
7/27/2024 20:56	46206	DANV_T2	1	2	1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/27/2024 20:56	46203	DANV_T2	0	0	0	0	0	0	-1.61	-1.62	0	0	0	0	0	0
7/27/2024 21:11	29402	BELT_T1	1	4	3	9.1	2.43	-6.67	0	0	0	0	0	0	0	0
7/27/2024 21:14	67605	WARW_T1	3	3	0	0.53	0.4	-0.13	-1	-1.01	0	0	0	0	0	0
7/27/2024 21:14	40201	BEGA_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/27/2024 21:17	61301	EARL_T1	0	0	0	0	0	0	-0.66	-0.66	1	1	0	900	900	0
7/27/2024 21:23	13503	MCMI_T2	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
7/27/2024 21:29	13503	MCMI_T2	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
7/27/2024 21:38	58006	WCAR_T2	0	0	0	0	0	0	-0.61	-0.66	0	0	0	0	0	0
7/27/2024 21:42	16102	BING_T2	3	11	8	0.17	0.17	0	-0.4	-0.47	1	1	0	1200	1200	0
7/27/2024 21:42	44301	BEAV_T2	0	0	0	0	0	0	-1.46	-1.49	1	1	0	600	600	0
7/27/2024 21:44	44801	EDAN_T2	0	13	13	0	0.14	0.14	-1.44	-1.46	0	0	0	0	0	0
7/27/2024 21:46	64305	LINC_T1	1	1	0	0.1	0	-0.1	-0.24	-0.25	0	0	0	0	0	0
7/27/2024 21:47	44301	BEAV_T2	0	0	0	0	0	0	-1.46	-1.49	1	1	0	600	600	0
7/27/2024 21:51	64303	LINC_T1	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
7/27/2024 21:51	41902	REED_T1	0	0	0	0	0	0	0.23	0.11	0	0	0	0	0	0
7/27/2024 21:51	41901	REED_T1	6	1	-5	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
7/27/2024 21:51	64305	LINC_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/27/2024 21:53	64204	KINZ_T1	2	1	-1	0.55	0.8	0.25	0	0	0	0	0	0	0	0
7/27/2024 21:53	64202	KINZ_T1	2	3	1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/27/2024 21:53	41901	REED_T1	6	1	-5	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
7/27/2024 21:53	64201	KINZ_T1	4	1	-3	0.45	1.4	0.95	0	0	0	0	0	0	0	0
7/27/2024 21:53	41902	REED_T1	0	0	0	0	0	0	0.11	1	0	0	0	0	0	0
7/27/2024 21:53	64203	KINZ_T1	4	0	-4	0.1	0	-0.1	0.54	0.51	0	0	0	0	0	0
7/27/2024 21:55	14702	TREX_T2	0	0	0	0	0	0	0.89	0.89	0	0	0	0	0	0
7/27/2024 21:55	10805	CHHI_T2	1	1	0	8.1	7.9	-0.2	-1.21	-1.15	1	1	0	600	600	0
7/27/2024 21:56	14702	TREX_T2	0	0	0	0	0	0	0.89	0.89	0	0	0	0	0	0
7/27/2024 21:57	14702	TREX_T2	0	0	0	0	0	0	1.78	1.78	0	0	0	0	0	0
7/27/2024 21:58	29402	BELT_T1	1	1	0	8.5	9	0.5	0	0	0	0	0	0	0	0
7/27/2024 21:58	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/27/2024 21:58	66901	SHIL_T2	160	0	-160	0.19	0	-0.19	0.06	0.07	0	0	0	0	0	0
7/27/2024 21:58	66902	SHIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/27/2024 21:59	61102	BERK_T5	0	0	0	0	0	0	1.13	1.16	1	1	0	300	300	0
7/27/2024 22:00	14702	TREX_T2	0	0	0	0	0	0	0.89	0.89	0	0	0	0	0	0
7/27/2024 22:02	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/27/2024 22:02	29402	BELT_T1	1	1	0	8.8	9.2	0.4	0	0	0	0	0	0	0	0
7/27/2024 22:03	12604	MACA_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
7/27/2024 22:04	64303	LINC_T1	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
7/27/2024 22:04	64305	LINC_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/27/2024 22:05	16605	PONO_T1	0	0	0	0	0	0	-0.47	-0.5	1	1	0	1200	1200	0
7/27/2024 22:06	42802	SELI_T1	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
7/27/2024 22:06	64801	MONE_T2	1	1	0	0.3	0.8	0.5	-0.35	-0.38	0	0	0	0	0	0
7/27/2024 22:07	64801	MONE_T2	1	1	0	0.3	0.8	0.5	-0.35	-0.38	0	0	0	0	0	0
7/27/2024 22:08	43102	SMIL_T2	0	6	6	0	0.17	0.17	0	0	0	0	0	0	0	0
7/27/2024 22:08	43103	SMIL_T2	3	4	1	0.13	0.38	0.25	-5.78	-5.98	0	0	0	0	0	0
7/27/2024 22:09	64101	REFR_T1	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
7/27/2024 22:10	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/27/2024 22:14	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/27/2024 22:14	61703	ELIZ_T1	0	0	0	0	0	0	-2.52	-2.55	2	2	0	2100	2100	0
7/27/2024 22:14	61701	ELIZ_T1	1	1	0	4.9	4.7	-0.2	0	0	0	0	0	0	0	0
7/27/2024 22:15	10602	BLGL_T2	1	1	0	8	9.6	1.6	0.45	0.51	0	0	0	0	0	0
7/27/2024 22:17	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/27/2024 22:18	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/27/2024 22:18	65603	QVIL_T2	0	1	1	0	0.1	0.1	0.4	0.37	0	0	0	0	0	0
7/27/2024 22:18	65601	QVIL_T2	18	0	-18	0.11	0	-0.11	0	0	0	0	0	0	0	0
7/27/2024 22:19	61701	ELIZ_T1	1	1	0	4.7	4.8	0.1	0	0	0	0	0	0	0	0
7/27/2024 22:19	47002	HUGH_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
7/27/2024 22:19	47001	HUGH_T2	3	3	0	7.97	8.43	0.46	-1.58	-1.61	1	1	0	900	900	0
7/27/2024 22:19	64302	LINC_T2	1	0	-1	0.1	0	-0.1	1.11	1.06	0	0	0	0	0	0
7/27/2024 22:19	61703	ELIZ_T1	0	0	0	0	0	0	-5.04	-5.11	4	4	0	4200	4200	0
7/27/2024 22:19	22901	HARW_T1	1	0	-1	0.2	0	-0.2	-0.56	-0.49	1	1	0	1200	1200	0
7/27/2024 22:20	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0.58	0.58	0	0	0	0	0	0
7/27/2024 22:20	65601	QVIL_T2	18	0	-18	0.11	0	-0.11	0	0	0	0	0	0	0	0
7/27/2024 22:20	65603	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/27/2024 22:20	47001	HUGH_T2	3	3	0	7.97	8.43	0.46	-1.58	-1.61	1	1	0	900	900	0
7/27/2024 22:20	47002	HUGH_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
7/27/2024 22:21	52401	GRPA_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/27/2024 22:21	52402	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/27/2024 22:21	10801	CHHI_T1	0	0	0	0	0	0	-1.67	-1.71	3	3	0	2100	2100	0
7/27/2024 22:21	52403	GRPA_T2	0	2	2	0	0.3	0.3	-0.54	-0.6	0	0	0	0	0	0
7/27/2024 22:22	40603	PIGR_T1	0	0	0	0	0	0	0.53	0.47	0	0	0	0	0	0
7/27/2024 22:23	29402	BELT_T1	1	1	0	9	9.3	0.3	0	0	0	0	0	0	0	0
7/27/2024 22:23	15604	NSTR_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
7/27/2024 22:23	64101	REFR_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
7/27/2024 22:23	24902	WHHA_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
7/27/2024 22:24	15604	NSTR_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
7/27/2024 22:24	12701	MACU_T1	0	0	0	0	0	0	-0.97	-0.99	1	1	0	1200	1200	0
7/27/2024 22:25	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/27/2024 22:25	65003	NEFF_T2	4	1	-3	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
7/27/2024 22:25	64101	REFR_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
7/27/2024 22:25	16102	BING_T2	16	5	-11	0.29	0.16	-0.13	0	0	0	0	0	0	0	0
7/27/2024 22:25	65001	NEFF_T2	0	0	0	0	0	0	-1.04	-1.05	1	1	0	1200	1200	0
7/27/2024 22:25	13303	ORVI_T1	0	0	0	0	0	0	0.97	0.92	0	0	0	0	0	0
7/27/2024 22:25	16103	BING_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
7/27/2024 22:25	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 22:25	12704	MACU_T1	0	0	0	0	0	0	-1.2	-1.18	1	1	0	600	600	0
7/27/2024 22:26	45902	AUBU_T1	0	2	2	0	0.1	0.1	-1.3	-1.32	0	0	0	0	0	0
7/27/2024 22:26	66901	SHIL_T2	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
7/27/2024 22:26	64904	MILL_T1	0	0	0	0	0	0	0.01	-0.03	0	0	0	0	0	0
7/27/2024 22:26	64101	REFR_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
7/27/2024 22:26	10805	CHHI_T2	1	1	0	7.9	7.9	0	-1.2	-1.27	1	1	0	600	600	0
7/27/2024 22:27	42802	SELI_T1	0	0	0	0	0	0	-0.99	-1.01	0	0	0	0	0	0
7/27/2024 22:27	20403	ASHF_T2	0	0	0	0	0	0	0.48	0.43	0	0	0	0	0	0
7/27/2024 22:27	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 22:27	20402	ASHF_T2	6	0	-6	0.37	0	-0.37	0	0	0	0	0	0	0	0
7/27/2024 22:27	44203	POIN_T2	2	0	-2	0.75	0	-0.75	-1.03	0.04	2	1	-1	2100	900	-1200
7/27/2024 22:28	52004	LING_T2	2	2	0	4.2	4.35	0.15	0	0	0	0	0	0	0	0
7/27/2024 22:28	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 22:28	60201	ATGL_T2	0	4	4	0	0.13	0.13	0.57	0.56	0	0	0	0	0	0
7/27/2024 22:28	52002	LING_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
7/27/2024 22:29	44201	POIN_T1	0	0	0	0	0	0	-1.82	-1.87	1	1	0	1200	1200	0
7/27/2024 22:29	24902	WHHA_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
7/27/2024 22:29	57401	SPAN_T1	0	0	0	0	0	0	-2.08	-1.72	2	2	0	1200	1200	0
7/27/2024 22:29	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.67	-0.7	2	2	0	1800	1800	0
7/27/2024 22:29	40901	JESH_T1	1	1	0	0.8	0.6	-0.2	-0.66	-0.63	1	1	0	600	600	0
7/27/2024 22:29	53601	DALM_T2	1	1	0	0.9	1.2	0.3	-0.65	-0.68	0	0	0	0	0	0
7/27/2024 22:29	10805	CHHI_T2	1	1	0	7.9	7.9	0	-1.2	-1.27	1	1	0	600	600	0
7/27/2024 22:29	25503	MADI_T1	19	19	0	0.17	0.15	-0.02	-0.84	-0.82	0	0	0	0	0	0
7/27/2024 22:29	57403	SPAN_T1	8	9	1	0.19	0.2	0.01	0	0	0	0	0	0	0	0
7/27/2024 22:30	44801	EDAN_T2	1	9	8	0.1	0.13	0.03	-1.51	-1.5	0	0	0	0	0	0
7/27/2024 22:30	12701	MACU_T1	0	0	0	0	0	0	-1.94	-1.98	2	2	0	2400	2400	0
7/27/2024 22:30	60201	ATGL_T2	2	29	27	0.1	0.19	0.09	0.57	0.56	0	0	0	0	0	0
7/27/2024 22:30	45902	AUBU_T1	0	2	2	0	0.1	0.1	-1.3	-1.32	0	0	0	0	0	0
7/27/2024 22:31	52501	PROG_T1	2	20	18	0.1	0.13	0.03	-1.2	-1.21	1	1	0	300	300	0
7/27/2024 22:31	40301	TAMA_T3	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/27/2024 22:31	60801	BUCK_T1	44	55	11	0.29	0.45	0.16	-0.09	-0.09	0	0	0	0	0	0
7/27/2024 22:31	20403	ASHF_T2	0	0	0	0	0	0	0.48	0.43	0	0	0	0	0	0
7/27/2024 22:31	45602	WOOL_T1	0	7	7	0	0.14	0.14	0	0	1	1	0	900	900	0
7/27/2024 22:31	40302	TAMA_T3	3	2	-1	0.27	0.25	-0.02	-1.08	-1.1	1	1	0	1200	1200	0
7/27/2024 22:31	46504	LOHA_T1	2	2	0	0.4	0.75	0.35	0	0	0	0	0	0	0	0
7/27/2024 22:31	60803	BUCK_T1	14	17	3	0.46	0.54	0.08	0	0	0	0	0	0	0	0
7/27/2024 22:31	46506	LOHA_T1	567	585	18	0.58	0.63	0.05	-3.9	-3.97	4	4	0	4200	4200	0
7/27/2024 22:31	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 22:31	45601	WOOL_T1	1	1	0	1.4	0.2	-1.2	0	0	0	0	0	0	0	0
7/27/2024 22:31	40303	TAMA_T3	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/27/2024 22:31	64101	REFR_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
7/27/2024 22:32	57401	SPAN_T1	0	0	0	0	0	0	-1.04	-0.86	1	1	0	600	600	0
7/27/2024 22:32	53601	DALM_T2	1	1	0	1.2	1	-0.2	-0.65	-0.68	0	0	0	0	0	0
7/27/2024 22:32	10805	CHHI_T2	1	1	0	7.9	7.9	0	-1.2	-1.27	1	1	0	600	600	0
7/27/2024 22:32	57403	SPAN_T1	8	20	12	0.2	0.26	0.06	0	0	0	0	0	0	0	0
7/27/2024 22:32	52004	LING_T2	2	2	0	4.1	4.4	0.3	0	0	0	0	0	0	0	0
7/27/2024 22:32	60101	COCA_T1	0	0	0	0	0	0	0.6	0.57	0	0	0	0	0	0
7/27/2024 22:32	10801	CHHI_T1	0	10	10	0	0.1	0.1	-1.67	-1.71	3	3	0	2100	2100	0
7/27/2024 22:32	52002	LING_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
7/27/2024 22:32	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 22:32	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
7/27/2024 22:33	52004	LING_T2	2	2	0	4.1	4.4	0.3	0	0	0	0	0	0	0	0
7/27/2024 22:33	57401	SPAN_T1	0	0	0	0	0	0	-1.04	-0.86	1	1	0	600	600	0
7/27/2024 22:33	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
7/27/2024 22:33	42503	ALTA_T2	0	0	0	0	0	0	-1.16	-1.16	0	0	0	0	0	0
7/27/2024 22:33	20403	ASHF_T2	0	0	0	0	0	0	0.48	0.43	0	0	0	0	0	0
7/27/2024 22:33	52002	LING_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
7/27/2024 22:33	46506	LOHA_T1	567	585	18	0.58	0.63	0.05	-3.9	-3.97	4	4	0	4200	4200	0
7/27/2024 22:33	57403	SPAN_T1	8	20	12	0.2	0.26	0.06	0	0	0	0	0	0	0	0
7/27/2024 22:33	46504	LOHA_T1	2	2	0	0.4	0.75	0.35	0	0	0	0	0	0	0	0
7/27/2024 22:34	45601	WOOL_T1	1	1	0	1.4	0.2	-1.2	0	0	0	0	0	0	0	0
7/27/2024 22:34	52501	PROG_T1	2	20	18	0.1	0.13	0.03	-1.2	-1.21	1	1	0	300	300	0
7/27/2024 22:34	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 22:34	46504	LOHA_T1	2	2	0	0.4	0.75	0.35	0	0	0	0	0	0	0	0
7/27/2024 22:34	20403	ASHF_T2	0	0	0	0	0	0	0.48	0.43	0	0	0	0	0	0
7/27/2024 22:34	42802	SELI_T1	0	0	0	0	0	0	-0.99	-1.01	0	0	0	0	0	0
7/27/2024 22:34	52004	LING_T2	2	2	0	4.1	4.4	0.3	0	0	0	0	0	0	0	0
7/27/2024 22:34	46506	LOHA_T1	567	585	18	0.58	0.63	0.05	-1.95	-1.99	2	2	0	2100	2100	0
7/27/2024 22:34	45501	DERR_T2	1	0	-1	0.1	0	-0.1	-0.67	-0.7	2	2	0	1800	1800	0
7/27/2024 22:34	45602	WOOL_T1	0	7	7	0	0.14	0.14	0	0	1	1	0	900	900	0
7/27/2024 22:34	60201	ATGL_T2	2	29	27	0.1	0.19	0.09	0.57	0.56	0	0	0	0	0	0
7/27/2024 22:34	52002	LING_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
7/27/2024 22:35	21206	ECAR_T2	1	1	0	8.2	8	-0.2	0.27	0.23	0	0	0	0	0	0
7/27/2024 22:35	57401	SPAN_T1	0	0	0	0	0	0	-2.08	-1.72	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/27/2024 22:35	52401	GRPA_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
7/27/2024 22:35	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 22:35	21204	ECAR_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/27/2024 22:35	52403	GRPA_T2	2	2	0	0.1	0.4	0.3	-1.21	-1.14	0	0	0	0	0	0
7/27/2024 22:35	57403	SPAN_T1	8	20	12	0.2	0.26	0.06	0	0	0	0	0	0	0	0
7/27/2024 22:35	43202	MVIL_T2	0	0	0	0	0	0	-0.64	-0.68	0	0	0	0	0	0
7/27/2024 22:35	52402	GRPA_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/27/2024 22:35	54701	NEBL_T1	1	1	0	1.5	1.5	0	0	0	1	1	0	600	600	0
7/27/2024 22:36	57303	MOAL_T2	1	1	0	7.9	7.6	-0.3	0	0	0	0	0	0	0	0
7/27/2024 22:36	52402	GRPA_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/27/2024 22:36	52401	GRPA_T2	1	1	0	0.7	0.5	-0.2	-0.41	-0.44	0	0	0	0	0	0
7/27/2024 22:36	52403	GRPA_T2	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/27/2024 22:36	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 22:36	57304	MOAL_T2	0	1	1	0	0.1	0.1	-0.45	-0.48	0	0	0	0	0	0
7/27/2024 22:36	20403	ASHF_T2	0	0	0	0	0	0	0.48	0.43	0	0	0	0	0	0
7/27/2024 22:36	42802	SELI_T1	0	0	0	0	0	0	-1.01	-1.08	0	0	0	0	0	0
7/27/2024 22:36	12701	MACU_T1	0	0	0	0	0	0	-0.99	-1	1	1	0	1200	1200	0
7/27/2024 22:37	45501	DERR_T2	1	0	-1	0.1	0	-0.1	-0.7	-0.7	2	2	0	1800	1800	0
7/27/2024 22:37	44201	POIN_T1	0	2	2	0	0.1	0.1	-1.87	-1.95	1	1	0	1200	1200	0
7/27/2024 22:37	48901	FOSP_T2	0	0	0	0	0	0	-0.5	-0.55	1	1	0	600	600	0
7/27/2024 22:37	25603	ARRO_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
7/27/2024 22:37	53601	DALM_T2	1	1	0	1.2	1	-0.2	-0.68	-0.53	0	0	0	0	0	0
7/27/2024 22:38	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 22:39	40101	HUNT_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
7/27/2024 22:40	52002	LING_T2	0	0	0	0	0	0	0.94	0.79	0	0	0	0	0	0
7/27/2024 22:40	52004	LING_T2	2	2	0	4.1	4.4	0.3	0	0	0	0	0	0	0	0
7/27/2024 22:41	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 22:42	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2024 22:44	41002	LAUR_T2	1	3	2	2	0.8	-1.2	0.19	0.19	0	0	0	0	0	0
7/27/2024 22:44	41001	LAUR_T2	0	13	13	0	0.11	0.11	0	0	0	0	0	0	0	0
7/27/2024 22:47	65205	PRIN_T1	1	1	0	1.7	1.9	0.2	0	0	0	0	0	0	0	0
7/27/2024 22:55	65901	SAKR_T2	1	1	0	8.4	8.6	0.2	-1.55	-1.55	2	2	0	1500	1500	0
7/27/2024 23:15	57403	SPAN_T1	18	33	15	0.28	0.34	0.06	0	0	0	0	0	0	0	0
7/27/2024 23:15	57401	SPAN_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	600	600	0
7/28/2024 6:39	23401	HONE_T2	1	1	0	0.7	0.7	0	-0.48	-0.47	0	0	0	0	0	0
7/28/2024 6:44	63306	GREE_T1	0	0	0	0	0	0	-1.56	-1.55	1	1	0	900	900	0
7/28/2024 6:56	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/28/2024 6:56	29402	BELT_T1	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
7/28/2024 6:57	12002	HATF_T1	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
7/28/2024 6:57	12005	HATF_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
7/28/2024 6:58	11103	EGYP_T1	0	0	0	0	0	0	-2.02	-1.98	0	0	0	0	0	0
7/28/2024 6:59	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/28/2024 7:01	12605	MACA_T1	0	0	0	0	0	0	-0.97	-0.9	0	0	0	0	0	0
7/28/2024 7:03	12605	MACA_T1	0	0	0	0	0	0	-0.97	-0.9	0	0	0	0	0	0
7/28/2024 7:04	51204	MTON_T2	0	0	0	0	0	0	-0.42	-0.43	1	1	0	600	600	0
7/28/2024 7:10	20403	ASHF_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
7/28/2024 7:10	20401	ASHF_T2	3	3	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
7/28/2024 7:11	40505	CRES_T1	3	4	1	5.87	5.83	-0.04	0.25	0.26	0	0	0	0	0	0
7/28/2024 7:12	61503	EPET_T1	0	0	0	0	0	0	-1.03	-1.03	0	0	0	0	0	0
7/28/2024 7:15	64904	MILL_T1	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
7/28/2024 7:19	57403	SPAN_T1	110	24	-86	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
7/28/2024 7:19	23001	SAJO_T1	0	0	0	0	0	0	-0.81	-0.91	0	0	0	0	0	0
7/28/2024 7:19	55101	WERT_T1	0	0	0	0	0	0	-1.44	-1.36	2	2	0	1500	1500	0
7/28/2024 7:19	57401	SPAN_T1	2	2	0	0.3	0.1	-0.2	-1.02	-1.02	1	1	0	600	600	0
7/28/2024 7:21	57401	SPAN_T1	2	2	0	0.3	0.1	-0.2	-1.02	-1.02	1	1	0	600	600	0
7/28/2024 7:21	57403	SPAN_T1	110	24	-86	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
7/28/2024 7:26	60803	BUCK_T1	22	18	-4	0.68	0.55	-0.13	0	0	0	0	0	0	0	0
7/28/2024 7:26	60801	BUCK_T1	210	193	-17	0.76	0.71	-0.05	-0.19	-0.16	0	0	0	0	0	0
7/28/2024 7:27	12005	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/28/2024 7:27	12006	HATF_T1	0	0	0	0	0	0	0.58	0.53	0	0	0	0	0	0
7/28/2024 7:28	22002	BOHE_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
7/28/2024 7:28	22001	BOHE_T1	31	1	-30	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
7/28/2024 7:28	22003	BOHE_T1	247	240	-7	0.56	0.44	-0.12	0	0	0	0	0	0	0	0
7/28/2024 7:32	44201	POIN_T1	426	354	-72	0.32	0.29	-0.03	-2.09	-2.04	1	1	0	1200	1200	0
7/28/2024 7:32	13303	ORVI_T1	0	0	0	0	0	0	0.64	0.7	0	0	0	0	0	0
7/28/2024 7:33	53803	MBRG_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
7/28/2024 7:33	44201	POIN_T1	426	354	-72	0.32	0.29	-0.03	-2.09	-2.04	1	1	0	1200	1200	0
7/28/2024 7:34	44202	POIN_T2	0	0	0	0	0	0	-0.96	-0.94	1	1	0	1200	1200	0
7/28/2024 7:34	44201	POIN_T1	426	354	-72	0.32	0.29	-0.03	-2.09	-2.04	1	1	0	1200	1200	0
7/28/2024 7:34	15601	NSTR_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/28/2024 7:34	65206	PRIN_T4	1	1	0	5.2	0	-5.2	0	0	0	0	0	0	0	0
7/28/2024 7:34	65207	PRIN_T4	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/28/2024 7:34	15603	NSTR_T2	0	0	0	0	0	0	-0.63	-0.58	0	0	0	0	0	0
7/28/2024 7:34	48301	ORWI_T1	2	2	0	4.75	4.6	-0.15	0	0	0	0	0	0	0	0
7/28/2024 7:37	44201	POIN_T1	426	354	-72	0.32	0.29	-0.03	-2.04	-2.01	1	1	0	1200	1200	0
7/28/2024 7:38	14601	SWHI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/28/2024 7:38	45901	AUBU_T1	0	0	0	0	0	0	1.06	1.03	0	0	0	0	0	0
7/28/2024 7:39	53601	DALM_T2	1	1	0	0.7	0.4	-0.3	-0.17	-0.19	0	0	0	0	0	0
7/28/2024 7:40	11205	ELHE_T1	0	0	0	0	0	0	-0.66	-0.65	1	1	0	1200	1200	0
7/28/2024 7:40	24902	WHHA_T1	1	1	0	1.3	1.2	-0.1	0.73	0.71	0	0	0	0	0	0
7/28/2024 7:41	11904	ETEX_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
7/28/2024 7:43	40505	CRES_T1	3	3	0	5.83	5.73	-0.1	0	0	0	0	0	0	0	0
7/28/2024 7:43	40504	CRES_T1	0	0	0	0	0	0	-0.63	-0.6	0	0	0	0	0	0
7/28/2024 7:44	11904	ETEX_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
7/28/2024 7:46	14201	EALL_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
7/28/2024 7:51	67805	WLAN_T1	0	0	0	0	0	0	-1.48	-1.47	0	0	0	0	0	0
7/28/2024 7:52	67803	WLAN_T1	0	0	0	0	0	0	-0.83	-0.81	0	0	0	0	0	0
7/28/2024 7:52	16301	ALPA_T1	1	1	0	0.3	0.3	0	-0.4	-0.33	0	0	0	0	0	0
7/28/2024 7:54	22003	BOHE_T1	222	241	19	0.32	0.33	0.01	0	0	0	0	0	0	0	0
7/28/2024 7:54	22001	BOHE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/28/2024 7:54	22002	BOHE_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
7/28/2024 7:59	62605	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 7:59	62601	ENGL_T1	0	1	1	0	0	0	-1.03	-1.03	0	0	0	0	0	0
7/28/2024 8:10	24902	WHHA_T1	1	4	3	1.7	1.7	0	0.74	0.75	0	0	0	0	0	0
7/28/2024 8:10	42001	MNVL_T2	0	36	36	0	0.38	0.38	0.31	0.31	0	0	0	0	0	0
7/28/2024 8:10	42002	MNVL_T2	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
7/28/2024 8:13	64204	KINZ_T1	3	2	-1	0.3	0.55	0.25	0	0	0	0	0	0	0	0
7/28/2024 8:13	40101	HUNT_T2	0	0	0	0	0	0	-0.63	-0.61	0	0	0	0	0	0
7/28/2024 8:13	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/28/2024 8:13	64203	KINZ_T1	19	0	-19	0.13	0	-0.13	0.31	0.3	0	0	0	0	0	0
7/28/2024 8:13	64201	KINZ_T1	17	3	-14	0.24	0.43	0.19	0	0	0	0	0	0	0	0
7/28/2024 8:14	42001	MNVL_T2	0	36	36	0	0.38	0.38	0.31	0.31	0	0	0	0	0	0
7/28/2024 8:14	42002	MNVL_T2	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
7/28/2024 8:24	42001	MNVL_T2	0	36	36	0	0.38	0.38	0.31	0.36	0	0	0	0	0	0
7/28/2024 8:24	42002	MNVL_T2	1	1	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
7/28/2024 8:25	43202	MVIL_T2	1	1	0	0.2	0.2	0	-0.67	-0.67	0	0	0	0	0	0
7/28/2024 8:26	63305	GREE_T1	0	0	0	0	0	0	-2.17	-2.15	1	1	0	900	900	0
7/28/2024 8:26	61301	EARL_T1	0	0	0	0	0	0	-0.76	-0.74	1	1	0	900	900	0
7/28/2024 8:27	63305	GREE_T1	0	0	0	0	0	0	-2.17	-2.15	1	1	0	900	900	0
7/28/2024 8:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 8:31	45602	WOOL_T1	0	1	1	0	0	0	0	0	1	1	0	900	900	0
7/28/2024 8:33	13503	MCMI_T2	0	4	4	0	0.4	0.4	-0.01	-0.88	0	0	0	0	0	0
7/28/2024 8:33	41902	REED_T1	0	1	1	0	0	0	0.92	0.92	0	0	0	0	0	0
7/28/2024 8:35	56501	ROCK_T2	1	0	-1	0.2	0	-0.2	0	-2.54	0	0	0	0	0	0
7/28/2024 8:36	41902	REED_T1	0	1	1	0	0	0	0.92	0.92	0	0	0	0	0	0
7/28/2024 8:37	64402	LAND_T2	0	0	0	0	0	0	-0.53	-0.47	1	1	0	600	600	0
7/28/2024 8:37	45901	AUBU_T1	0	0	0	0	0	0	1.07	1.09	0	0	0	0	0	0
7/28/2024 8:37	56501	ROCK_T2	1	0	-1	0.2	0	-0.2	-1.27	-1.2	0	0	0	0	0	0
7/28/2024 8:44	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 8:46	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 8:53	20403	ASHF_T2	0	0	0	0	0	0	0.33	0.38	0	0	0	0	0	0
7/28/2024 8:53	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 8:53	45902	AUBU_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
7/28/2024 8:54	23403	HONE_T1	0	0	0	0	0	0	-0.29	-0.25	0	0	0	0	0	0
7/28/2024 8:54	24902	WHHA_T1	4	8	4	0.68	1	0.32	0.77	0.76	0	0	0	0	0	0
7/28/2024 8:55	64602	LEOL_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
7/28/2024 8:59	46506	LOHA_T1	571	399	-172	0.43	0.37	-0.06	-2.09	-2.09	2	2	0	2100	2100	0
7/28/2024 8:59	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 8:59	20403	ASHF_T2	0	0	0	0	0	0	0.33	0.38	0	0	0	0	0	0
7/28/2024 8:59	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 9:01	47001	HUGH_T2	3	3	0	7.53	7.03	-0.5	-0.69	-0.68	0	0	0	0	0	0
7/28/2024 9:01	45602	WOOL_T1	1	1	0	0.3	0	-0.3	0	0	1	1	0	900	900	0
7/28/2024 9:06	47401	PENS_T1	0	1	1	0	0	0	1.02	1.02	0	0	0	0	0	0
7/28/2024 9:07	47401	PENS_T1	0	1	1	0	0	0	1.02	1.02	0	0	0	0	0	0
7/28/2024 9:07	42501	ALTA_T2	0	0	0	0	0	0	-0.98	-0.98	1	1	0	600	600	0
7/28/2024 9:08	53902	HALI_T2	2	2	0	0.1	0.45	0.35	0	0	0	0	0	0	0	0
7/28/2024 9:08	53902	HALI_T2	1	1	0	4.2	4.5	0.3	-0.28	-0.79	0	0	0	0	0	0
7/28/2024 9:08	67602	WARW_T2	0	0	0	0	0	0	1.49	1.53	4	4	0	3000	3000	0
7/28/2024 9:09	67602	WARW_T2	0	0	0	0	0	0	0.75	0.77	2	2	0	1500	1500	0
7/28/2024 9:11	67602	WARW_T2	0	0	0	0	0	0	0.75	0.77	2	2	0	1500	1500	0
7/28/2024 9:14	40101	HUNT_T2	0	0	0	0	0	0	-1.16	-1.09	0	0	0	0	0	0
7/28/2024 9:14	63304	GREE_T1	0	0	0	0	0	0	-3.01	-2.62	0	0	0	0	0	0
7/28/2024 9:19	57302	MOAL_T2	0	0	0	0	0	0	-1.36	-1.28	1	1	0	1200	1200	0
7/28/2024 9:19	57303	MOAL_T2	1	1	0	8.5	8.5	0	0	0	0	0	0	0	0	0
7/28/2024 9:20	58402	MORO_T1	0	1	1	0	0	0	-0.43	-0.41	4	4	0	3000	3000	0
7/28/2024 9:20	57401	SPAN_T1	0	0	0	0	0	0	-1.51	-1.25	2	2	0	1200	1200	0
7/28/2024 9:21	57401	SPAN_T1	0	0	0	0	0	0	-0.75	-0.63	1	1	0	600	600	0
7/28/2024 9:22	42201	SHEN_T2	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
7/28/2024 9:22	57401	SPAN_T1	0	0	0	0	0	0	-1.88	-1.89	3	3	0	1800	1800	0
7/28/2024 9:24	67605	WARW_T1	1	0	-1	0.1	0	-0.1	-0.95	-0.92	0	0	0	0	0	0
7/28/2024 9:25	45902	AUBU_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
7/28/2024 9:28	45902	AUBU_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
7/28/2024 9:33	16402	MOPO_T1	0	1	1	0	0	0	-0.07	-0.07	0	0	0	0	0	0
7/28/2024 9:34	14702	TREX_T2	0	0	0	0	0	0	0.77	0.82	0	0	0	0	0	0
7/28/2024 9:34	16402	MOPO_T1	0	1	1	0	0	0	-0.07	-0.07	0	0	0	0	0	0
7/28/2024 9:36	14702	TREX_T2	0	0	0	0	0	0	0.82	0.86	0	0	0	0	0	0
7/28/2024 9:37	14702	TREX_T2	0	0	0	0	0	0	0.82	0.86	0	0	0	0	0	0
7/28/2024 9:38	20401	ASHF_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/28/2024 9:38	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
7/28/2024 9:40	46504	LOHA_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/28/2024 9:40	45501	DERR_T2	0	0	0	0	0	0	-0.45	-0.47	2	2	0	1800	1800	0
7/28/2024 9:40	46501	LOHA_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/28/2024 9:40	46503	LOHA_T1	0	0	0	0	0	0	-1.47	-1.44	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/28/2024 9:40	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 9:40	46506	LOHA_T1	363	243	-120	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
7/28/2024 9:41	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 9:42	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
7/28/2024 9:42	45501	DERR_T2	0	0	0	0	0	0	-0.45	-0.47	2	2	0	1800	1800	0
7/28/2024 9:42	20401	ASHF_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/28/2024 9:43	52404	GRPA_T2	0	0	0	0	0	0	0.47	-0.12	0	0	0	0	0	0
7/28/2024 9:43	52403	GRPA_T2	1	3	2	0.4	0.45	0.05	0	0	0	0	0	0	0	0
7/28/2024 9:47	48302	ORWI_T2	1	2	1	0.2	0.35	0.15	-0.09	-0.5	0	0	0	0	0	0
7/28/2024 9:47	64902	MILL_T2	0	0	0	0	0	0	-0.98	-0.97	1	1	0	900	900	0
7/28/2024 9:48	48302	ORWI_T2	1	2	1	0.2	0.35	0.15	-0.09	-0.5	0	0	0	0	0	0
7/28/2024 9:48	46002	BERW_T2	0	0	0	0	0	0	-1.89	-1.9	1	1	0	900	900	0
7/28/2024 9:48	46004	BERW_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/28/2024 10:00	40603	PIGR_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
7/28/2024 10:00	44203	POIN_T2	5	5	0	1.1	0.85	-0.25	0	0	0	0	0	0	0	0
7/28/2024 10:00	60801	BUCK_T1	4	4	0	0.38	0.45	0.07	-0.04	-0.01	0	0	0	0	0	0
7/28/2024 10:00	24902	WHHA_T1	3	10	7	1.2	0.74	-0.46	1.67	1.65	0	0	0	0	0	0
7/28/2024 10:00	55105	WERT_T1	0	0	0	0	0	0	-0.21	-0.12	1	1	0	900	900	0
7/28/2024 10:00	44202	POIN_T2	1	0	-1	0.9	0	-0.9	-0.82	-0.79	1	1	0	1200	1200	0
7/28/2024 10:00	40505	CRES_T1	3	3	0	4.33	4.53	0.2	0.47	0.5	0	0	0	0	0	0
7/28/2024 10:00	40504	CRES_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
7/28/2024 10:00	40602	PIGR_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/28/2024 10:00	60803	BUCK_T1	9	13	4	0.2	0.2	0	0	0	0	0	0	0	0	0
7/28/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
7/28/2024 10:00	43202	MVIL_T2	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
7/28/2024 10:00	56501	ROCK_T2	1	1	0	1	0.8	-0.2	-3.22	-3.1	0	0	0	0	0	0
7/28/2024 10:00	47403	PENS_T1	2	0	-2	1.1	0	-1.1	0	0	0	0	0	0	0	0
7/28/2024 10:00	47401	PENS_T1	1	2	1	0.7	0.85	0.15	2.3	-0.09	0	0	0	0	0	0
7/28/2024 10:00	57401	SPAN_T1	0	0	0	0	0	0	-1.17	-0.81	2	2	0	1200	1200	0
7/28/2024 10:00	64501	LAVI_T1	0	0	0	0	0	0	-0.38	-0.35	0	0	0	0	0	0
7/28/2024 10:06	65207	PRIN_T4	2	2	0	0.35	0.4	0.05	0	0	2	2	0	1800	1800	0
7/28/2024 10:06	65206	PRIN_T4	2	2	0	6.45	2.7	-3.75	0	0	0	0	0	0	0	0
7/28/2024 10:07	60201	ATGL_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
7/28/2024 10:07	57401	SPAN_T1	0	0	0	0	0	0	-0.81	-0.92	2	2	0	1200	1200	0
7/28/2024 10:07	24902	WHHA_T1	3	10	7	1.2	0.74	-0.46	0.82	0.83	0	0	0	0	0	0
7/28/2024 10:08	14702	TREX_T2	0	0	0	0	0	0	0.85	0.89	0	0	0	0	0	0
7/28/2024 10:08	57401	SPAN_T1	0	0	0	0	0	0	-0.41	-0.46	1	1	0	600	600	0
7/28/2024 10:08	29402	BELT_T1	21	275	254	0.37	1.12	0.75	0	0	0	0	0	0	0	0
7/28/2024 10:08	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/28/2024 10:08	42801	KELI_T1	0	0	0	0	0	0	-1.04	-1.01	1	1	0	1200	1200	0
7/28/2024 10:08	42302	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 10:09	20401	ASHF_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/28/2024 10:09	20403	ASHF_T2	0	0	0	0	0	0	0.43	0.54	0	0	0	0	0	0
7/28/2024 10:09	60201	ATGL_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
7/28/2024 10:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/28/2024 10:10	29402	BELT_T1	21	275	254	0.37	1.12	0.75	0	0	0	0	0	0	0	0
7/28/2024 10:10	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
7/28/2024 10:11	44801	EDAN_T2	1	7	6	0.7	0.52	-0.18	-1.42	-1.41	0	0	0	0	0	0
7/28/2024 10:11	53601	DALM_T2	3	2	-1	0.27	0.4	0.13	-0.07	-0.12	0	0	0	0	0	0
7/28/2024 10:11	14702	TREX_T2	0	0	0	0	0	0	0.85	0.89	0	0	0	0	0	0
7/28/2024 10:12	67605	WARW_T1	1	1	0	0.1	0.2	0.1	-1.11	-1.08	0	0	0	0	0	0
7/28/2024 10:12	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
7/28/2024 10:12	14702	TREX_T2	0	0	0	0	0	0	0.85	0.89	0	0	0	0	0	0
7/28/2024 10:13	64201	KINZ_T1	1	1	0	0.3	1.3	1	0	0	0	0	0	0	0	0
7/28/2024 10:13	64203	KINZ_T1	0	0	0	0	0	0	0.48	0.52	0	0	0	0	0	0
7/28/2024 10:13	48901	FOSP_T2	0	0	0	0	0	0	-0.53	-0.52	1	1	0	600	600	0
7/28/2024 10:13	64204	KINZ_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
7/28/2024 10:14	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 10:14	60801	BUCK_T1	4	4	0	0.38	0.45	0.07	-0.01	0	0	0	0	0	0	0
7/28/2024 10:14	60803	BUCK_T1	9	13	4	0.2	0.2	0	0	0	0	0	0	0	0	0
7/28/2024 10:14	42302	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 10:15	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 10:15	42302	MOWR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/28/2024 10:15	67605	WARW_T1	1	1	0	0.1	0.2	0.1	-1.11	-1.08	0	0	0	0	0	0
7/28/2024 10:15	45602	WOOL_T1	14	1	-13	0.28	0.4	0.12	0	0	1	1	0	900	900	0
7/28/2024 10:15	67602	WARW_T2	0	0	0	0	0	0	0.83	0.81	2	2	0	1500	1500	0
7/28/2024 10:16	45602	WOOL_T1	14	1	-13	0.28	0.4	0.12	0	0	1	1	0	900	900	0
7/28/2024 10:16	65001	MEFF_T2	0	0	0	0	0	0	-0.98	-0.9	1	1	0	1200	1200	0
7/28/2024 10:16	16402	MOPO_T1	1	1	0	0.2	0	-0.2	-0.04	-0.02	0	0	0	0	0	0
7/28/2024 10:18	25501	MADI_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
7/28/2024 10:18	25503	MADI_T1	10	3	-7	0.15	0.33	0.18	-0.7	-0.69	0	0	0	0	0	0
7/28/2024 10:18	25502	MADI_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
7/28/2024 10:18	58402	MORO_T1	1	0	-1	0.5	0	-0.5	-0.26	-0.33	2	2	0	1500	1500	0
7/28/2024 10:19	56501	ROCK_T2	1	1	0	1	0.4	-0.6	-1.03	-1.04	0	0	0	0	0	0
7/28/2024 10:20	42201	SHEN_T2	0	0	0	0	0	0	0.81	0.81	0	0	0	0	0	0
7/28/2024 10:20	56501	ROCK_T2	1	1	0	1	0.4	-0.6	-1.03	-1.04	0	0	0	0	0	0
7/28/2024 10:20	57401	SPAN_T1	0	0	0	0	0	0	-0.41	-0.46	1	1	0	600	600	0
7/28/2024 10:21	42201	SHEN_T2	0	0	0	0	0	0	0.81	0.81	0	0	0	0	0	0
7/28/2024 10:21	56501	ROCK_T2	1	1	0	1	0.4	-0.6	-1.03	-1.04	0	0	0	0	0	0
7/28/2024 10:21	16402	MOPO_T1	1	1	0	0.2	0	-0.2	-0.04	-0.02	0	0	0	0	0	0
7/28/2024 10:21	41902	REED_T1	2	2	0	0.2	0.5	0.3	1.09	1.05	0	0	0	0	0	0
7/28/2024 10:21	65604	QVIL_T2	0	0	0	0	0	0	0.62	0.66	0	0	0	0	0	0
7/28/2024 10:22	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 10:22	43103	SMIL_T2	0	0	0	0	0	0	-3.81	-3.75	0	0	0	0	0	0
7/28/2024 10:22	56501	ROCK_T2	1	1	0	1	0.4	-0.6	-1.04	-1	0	0	0	0	0	0
7/28/2024 10:23	20401	ASHF_T2	1	4	3	0.3	1.1	0.8	0	0	0	0	0	0	0	0
7/28/2024 10:23	20403	ASHF_T2	0	0	0	0	0	0	1.08	1.06	0	0	0	0	0	0
7/28/2024 10:24	41902	REED_T1	2	2	0	0.2	0.5	0.3	1.05	1.13	0	0	0	0	0	0
7/28/2024 10:24	20401	ASHF_T2	1	4	3	0.3	1.1	0.8	0	0	0	0	0	0	0	0
7/28/2024 10:24	20403	ASHF_T2	0	0	0	0	0	0	1.08	1.06	0	0	0	0	0	0
7/28/2024 10:25	60101	COCA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/28/2024 10:26	45901	AUBU_T1	0	0	0	0	0	0	1.1	1.1	0	0	0	0	0	0
7/28/2024 10:26	45902	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/28/2024 10:26	24902	WHHA_T1	8	14	6	0.75	0.72	-0.03	0	0	0	0	0	0	0	0
7/28/2024 10:26	60101	COCA_T1	0	1	1	0	0.1	0.1	0.61	0.62	0	0	0	0	0	0
7/28/2024 10:26	24901	WHHA_T1	0	0	0	0	0	0	-0.6	-0.54	0	0	0	0	0	0
7/28/2024 10:27	45901	AUBU_T1	0	0	0	0	0	0	1.1	1.1	0	0	0	0	0	0
7/28/2024 10:27	45902	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/28/2024 10:28	60101	COCA_T1	0	1	1	0	0.1	0.1	0.61	0.62	0	0	0	0	0	0
7/28/2024 10:28	29402	BELT_T1	176	273	97	1.06	1.13	0.07	0	0	0	0	0	0	0	0
7/28/2024 10:29	58702	ROSE_T2	1	1	0	5.7	4.5	-1.2	0	0	0	0	0	0	0	0
7/28/2024 10:29	58706	ROSE_T2	1	1	0	2.1	0.6	-1.5	0	0	0	0	0	0	0	0
7/28/2024 10:29	46506	LOHA_T1	4	4	0	0.25	0.2	-0.05	-1.98	-1.94	2	1	-1	2100	900	-1200
7/28/2024 10:29	58701	ROSE_T2	0	0	0	0	0	0	-0.82	-0.79	1	1	0	600	600	0
7/28/2024 10:29	58705	ROSE_T2	2	2	0	0.95	1.5	0.55	0	0	0	0	0	0	0	0
7/28/2024 10:30	46506	LOHA_T1	4	3	-1	0.2	0.23	0.03	-1.98	-1.94	2	1	-1	2100	900	-1200
7/28/2024 10:30	47001	HUGH_T2	3	3	0	7.77	7.6	-0.17	-2.98	-2.89	2	2	0	1800	1800	0
7/28/2024 10:31	52002	LING_T2	0	0	0	0	0	0	0.37	0.4	0	0	0	0	0	0
7/28/2024 10:31	52004	LING_T2	2	2	0	4.05	3.7	-0.35	0	0	0	0	0	0	0	0
7/28/2024 10:32	52002	LING_T2	0	0	0	0	0	0	0.37	0.4	0	0	0	0	0	0
7/28/2024 10:32	52004	LING_T2	2	2	0	4.05	3.7	-0.35	0	0	0	0	0	0	0	0
7/28/2024 10:32	46506	LOHA_T1	4	3	-1	0.2	0.23	0.03	-1.98	-1.94	2	1	-1	2100	900	-1200
7/28/2024 10:34	46506	LOHA_T1	4	3	-1	0.2	0.23	0.03	-1.98	-1.94	2	1	-1	2100	900	-1200
7/28/2024 10:35	48302	ORWI_T2	2	2	0	0.35	0.25	-0.1	-0.44	-0.4	0	0	0	0	0	0
7/28/2024 10:37	43108	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/28/2024 10:37	43103	SMIL_T2	0	0	0	0	0	0	-1.88	-1.88	0	0	0	0	0	0
7/28/2024 10:39	10801	OHHI_T1	4	4	0	0.75	0.75	0	-1.48	-1.42	3	3	0	2100	2100	0
7/28/2024 10:42	58001	WCAR_T1	3	4	1	0.17	0.3	0.13	0	0	0	0	0	0	0	0
7/28/2024 10:42	22903	HARW_T1	13	22	9	0.52	0.61	0.09	0	0	0	0	0	0	0	0
7/28/2024 10:42	22901	HARW_T1	0	0	0	0	0	0	-0.58	-0.44	1	1	0	1200	1200	0
7/28/2024 10:42	22905	HARW_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/28/2024 10:42	58003	WCAR_T1	1	1	0	1	1.2	0.2	0.15	0.19	1	1	0	600	600	0
7/28/2024 10:43	46803	HEPB_T2	1	1	0	0.4	0.5	0.1	0.59	0.6	0	0	0	0	0	0
7/28/2024 10:43	10805	OHHI_T2	1	1	0	8.8	8.3	-0.5	-2.45	-2.23	2	2	0	1200	1200	0
7/28/2024 10:43	46801	HEPB_T2	0	0	0	0	0	0	0.84	0.91	0	0	0	0	0	0
7/28/2024 10:44	52403	GRPA_T2	3	7	4	0.27	0.55	0.28	0	0	0	0	0	0	0	0
7/28/2024 10:44	45902	AUBU_T1	0	1	1	0	0.2	0.2	-0.46	-0.38	0	0	0	0	0	0
7/28/2024 10:44	52401	GRPA_T2	0	2	2	0	0	0	-0.42	-0.47	0	0	0	0	0	0
7/28/2024 10:45	64305	LINC_T1	1	1	0	0.4	0	-0.4	-0.14	-0.14	0	0	0	0	0	0
7/28/2024 10:46	52401	GRPA_T2	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/28/2024 10:46	52403	GRPA_T2	7	6	-1	0.76	0.53	-0.23	-0.29	-0.27	0	0	0	0	0	0
7/28/2024 10:46	52404	GRPA_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
7/28/2024 10:47	52002	LING_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
7/28/2024 10:47	52004	LING_T2	2	2	0	3.6	3.7	0.1	0	0	0	0	0	0	0	0
7/28/2024 10:48	25402	LAHA_T2	0	0	0	0	0	0	-0.51	-0.21	0	0	0	0	0	0
7/28/2024 10:49	52004	LING_T2	2	2	0	3.6	3.7	0.1	0	0	0	0	0	0	0	0
7/28/2024 10:49	52002	LING_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
7/28/2024 10:50	52004	LING_T2	2	2	0	3.6	3.7	0.1	0	0	0	0	0	0	0	0
7/28/2024 10:50	52002	LING_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
7/28/2024 10:53	47401	PENS_T1	3	3	0	1	0.93	-0.07	0	0.05	0	0	0	0	0	0
7/28/2024 10:53	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/28/2024 10:54	40201	BEGA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/28/2024 10:58	11102	EGYP_T1	3	3	0	1.03	1.23	0.2	0	0	0	0	0	0	0	0
7/28/2024 10:58	11101	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/28/2024 10:58	11104	EGYP_T1	1	8	7	1.8	0.43	-1.37	2.08	0.32	0	2	2	0	1800	1800
7/28/2024 10:58	10801	OHHI_T1	3	4	1	0.67	0.75	0.08	-1.42	-1.39	3	3	0	2100	2100	0
7/28/2024 10:59	21204	ECAR_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/28/2024 10:59	21206	ECAR_T2	7	14	7	1.34	1.87	0.53	0.25	0.29	0	0	0	0	0	0
7/28/2024 11:00	20603	GRWO_T2	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
7/28/2024 11:01	13503	MCMI_T2	6	5	-1	0.5	0.42	-0.08	-0.72	-0.74	0	0	0	0	0	0
7/28/2024 11:04	52501	PROG_T1	3	2	-1	0.57	0.6	0.03	-1.07	-1.02	1	1	0	300	300	0
7/28/2024 11:05	64101	REFR_T1	0	3	3	0	0.13	0.13	0.33	0.34	0	0	0	0	0	0
7/28/2024 11:05	44202	POIN_T2	1	1	0	0.4	0	-0.4	0.75	0.74	1	1	0	1200	1200	0
7/28/2024 11:05	44203	POIN_T2	5	5	0	1.48	0.55	-0.93	0	0	0	0	0	0	0	0
7/28/2024 11:08	59101	WALK_T2	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
7/28/2024 11:09	13903	SEID_T1	3	3	0	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
7/28/2024 11:09	13905	SEID_T1	0	0	0	0	0	0	-0.48	-0.48	1	1	0	1200	1200	0
7/28/2024 11:09	53601	DALM_T2	3	3	0	0.73	0.6	-0.13	-0.06	-0.03	0	0	0	0	0	0
7/28/2024 11:09	45902	AUBU_T1	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
7/28/2024 11:09	45501	DERR_T2	0	0	0	0	0	0	-0.38	-0.43	2	2	0	1800	1800	0
7/28/2024 11:09	13902	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 11:09	45901	AUBU_T1	0	0	0	0	0	0	1.16	1.13	0	0	0	0	0	0
7/28/2024 11:10	14702	TREX_T2	0	0	0	0	0	0	0.96	1.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/28/2024 11:10	45902	AUBU_T1	0	3	3	0	0.57	0.57	-0.9	-0.94	1	1	0	600	600	0
7/28/2024 11:11	57401	SPAN_T1	0	0	0	0	0	0	-0.36	-0.91	1	1	0	600	600	0
7/28/2024 11:12	45501	DERR_T2	0	0	0	0	0	0	-0.76	-0.86	4	4	0	3600	3600	0
7/28/2024 11:14	52004	LING_T2	2	2	0	3.7	3.85	0.15	0	0	0	0	0	0	0	0
7/28/2024 11:14	61302	EARL_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
7/28/2024 11:14	61301	EARL_T1	0	0	0	0	0	0	-0.67	-0.67	1	1	0	900	900	0
7/28/2024 11:14	52002	LING_T2	0	0	0	0	0	0	0.45	-0.34	0	0	0	0	0	0
7/28/2024 11:15	64801	MONE_T2	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
7/28/2024 11:15	64802	MONE_T2	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/28/2024 11:15	41002	LAUR_T2	4	4	0	0.58	0.7	0.12	0.22	0.24	0	0	0	0	0	0
7/28/2024 11:15	41001	LAUR_T2	1	2	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
7/28/2024 11:16	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/28/2024 11:19	52002	LING_T2	0	0	0	0	0	0	0.45	-0.34	0	0	0	0	0	0
7/28/2024 11:19	52004	LING_T2	2	2	0	3.45	3.85	0.4	0	0	0	0	0	0	0	0
7/28/2024 11:19	64802	MONE_T2	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/28/2024 11:19	64801	MONE_T2	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
7/28/2024 11:20	58401	MORO_T1	0	0	0	0	0	0	-0.7	-1.3	1	2	1	600	1200	600
7/28/2024 11:20	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 11:22	64802	MONE_T2	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
7/28/2024 11:22	64801	MONE_T2	0	0	0	0	0	0	-0.13	-0.1	0	0	0	0	0	0
7/28/2024 11:22	57401	SPAN_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	600	600	0
7/28/2024 11:24	42701	AUGU_T1	0	3	3	0	0	0	0	0	4	4	0	3600	3600	0
7/28/2024 11:26	40201	BEGA_T2	1	3	2	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/28/2024 11:26	53601	DALM_T2	3	3	0	0.87	0.5	-0.37	-0.03	-0.03	0	0	0	0	0	0
7/28/2024 11:26	10801	CHHI_T1	3	4	1	0.8	0.15	-0.65	-1.36	-1.33	3	3	0	2100	2100	0
7/28/2024 11:26	61504	EPET_T2	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
7/28/2024 11:26	61501	EPET_T2	1	1	0	6.2	5.4	-0.8	0	0	0	0	0	0	0	0
7/28/2024 11:30	42302	MOWR_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/28/2024 11:31	42302	MOWR_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/28/2024 11:31	58401	MORO_T1	0	0	0	0	0	0	-1.3	-1.24	2	2	0	1200	1200	0
7/28/2024 11:31	58402	MORO_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/28/2024 11:35	42802	SELI_T1	0	0	0	0	0	0	-1.18	-1.04	2	2	0	1800	1800	0
7/28/2024 11:35	42801	SELI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 11:38	42801	SELI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 11:38	61102	BERK_T5	0	0	0	0	0	0	0.42	0.47	1	1	0	300	300	0
7/28/2024 11:38	42802	SELI_T1	0	0	0	0	0	0	-1.04	-1.14	2	2	0	1800	1800	0
7/28/2024 11:39	42801	SELI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 11:39	42802	SELI_T1	0	0	0	0	0	0	-0.52	-0.57	1	1	0	900	900	0
7/28/2024 11:40	42801	SELI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 11:40	42802	SELI_T1	0	0	0	0	0	0	-0.52	-0.57	1	1	0	900	900	0
7/28/2024 11:42	60201	ATGL_T2	0	0	0	0	0	0	0.63	0.72	0	0	0	0	0	0
7/28/2024 11:42	10805	CHHI_T2	1	6	5	8.3	1.82	-6.48	-1.08	-1.05	1	1	0	600	600	0
7/28/2024 11:43	10805	CHHI_T2	1	6	5	8.3	1.82	-6.48	-1.08	-1.05	1	1	0	600	600	0
7/28/2024 11:44	67605	WARW_T1	1	1	0	0.1	0.9	0.8	-1.06	-1.01	0	0	0	0	0	0
7/28/2024 11:45	57303	MOAL_T2	1	1	0	8.5	8.5	0	0	0	0	0	0	0	0	0
7/28/2024 11:45	57304	MOAL_T2	0	0	0	0	0	0	-0.39	-0.3	0	0	0	0	0	0
7/28/2024 11:45	42302	MOWR_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
7/28/2024 11:46	42302	MOWR_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
7/28/2024 11:47	42302	MOWR_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
7/28/2024 11:48	52004	LING_T2	2	2	0	3.65	3.75	0.1	0.25	0	0	0	0	0	0	0
7/28/2024 11:48	57401	SPAN_T1	0	0	0	0	0	0	-0.91	-0.88	1	1	0	600	600	0
7/28/2024 11:53	27502	WEIS_T2	17	46	29	0.5	0.43	-0.07	0.04	0.07	0	0	0	0	0	0
7/28/2024 11:54	57401	SPAN_T1	0	0	0	0	0	0	-0.88	-0.78	1	1	0	600	600	0
7/28/2024 11:54	45501	DERR_T2	0	1	1	0	0	0	-0.42	-0.49	2	2	0	1800	1800	0
7/28/2024 11:55	42503	ALTA_T2	0	0	0	0	0	0	-1.07	-1.06	0	0	0	0	0	0
7/28/2024 11:55	43108	SMIL_T2	1	1	0	0.5	0.4	-0.1	-0.77	-0.78	1	1	0	1200	1200	0
7/28/2024 11:55	40201	BEGA_T2	1	3	2	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/28/2024 11:55	14702	TREX_T2	0	0	0	0	0	0	1.07	1.14	0	0	0	0	0	0
7/28/2024 11:56	40201	BEGA_T2	1	3	2	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/28/2024 11:58	45501	DERR_T2	0	1	1	0	0	0	-0.42	-0.49	2	2	0	1800	1800	0
7/28/2024 11:58	13503	MCMI_T2	5	5	0	0.36	0.58	0.22	-0.69	-0.66	0	0	0	0	0	0
7/28/2024 12:02	59302	MCAL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/28/2024 12:02	59301	MCAL_T1	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
7/28/2024 12:04	64101	REFR_T1	3	10	7	0.7	0.83	0.13	1.16	1.22	0	0	0	0	0	0
7/28/2024 12:05	64101	REFR_T1	3	10	7	0.7	0.83	0.13	0.77	0.81	0	0	0	0	0	0
7/28/2024 12:06	64101	REFR_T1	3	10	7	0.7	0.83	0.13	0.41	0.4	0	0	0	0	0	0
7/28/2024 12:07	16101	BING_T2	5	8	3	0.38	0.4	0.02	0	0	0	0	0	0	0	0
7/28/2024 12:07	66901	SHIL_T2	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
7/28/2024 12:07	64101	REFR_T1	3	10	7	0.7	0.83	0.13	1.62	1.6	0	0	0	0	0	0
7/28/2024 12:07	16102	BING_T2	0	0	0	0	0	0	-0.27	-0.24	1	1	0	1200	1200	0
7/28/2024 12:08	24902	WHHA_T1	14	33	19	0.52	0.46	-0.06	0.93	0.91	0	0	0	0	0	0
7/28/2024 12:08	24901	WHHA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/28/2024 12:10	61501	EPET_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
7/28/2024 12:10	61506	EPET_T2	0	0	0	0	0	0	-0.65	-0.53	1	1	0	900	900	0
7/28/2024 12:11	22903	HARW_T1	16	11	-5	0.52	0.2	-0.32	0	0	0	0	0	0	0	0
7/28/2024 12:11	22905	HARW_T1	7	11	4	0.24	0.54	0.3	0	0	0	0	0	0	0	0
7/28/2024 12:11	22901	HARW_T1	10	18	8	0.33	0.37	0.04	-0.55	-0.47	1	1	0	1200	1200	0
7/28/2024 12:19	58401	MORO_T1	0	0	0	0	0	0	-1.22	-2.08	2	3	1	1200	2100	900
7/28/2024 12:19	64101	REFR_T1	3	10	7	0.83	0.9	0.07	0.41	0.4	0	0	0	0	0	0
7/28/2024 12:20	64101	REFR_T1	3	10	7	0.83	0.9	0.07	0.41	0.4	0	0	0	0	0	0
7/28/2024 12:21	64101	REFR_T1	3	10	7	0.83	0.9	0.07	0.4	0.46	0	0	0	0	0	0
7/28/2024 12:22	53501	EVIL_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
7/28/2024 12:22	64101	REFR_T1	3	10	7	0.83	0.9	0.07	0.4	0.46	0	0	0	0	0	0
7/28/2024 12:23	46204	DANV_T2	2	5	3	0.65	0.25	-0.4	0	0	0	0	0	0	0	0
7/28/2024 12:23	46206	DANV_T2	2	8	6	0.65	0.8	0.15	0	0	0	0	0	0	0	0
7/28/2024 12:23	46203	DANV_T2	0	0	0	0	0	0	-1.57	-1.57	0	0	0	0	0	0
7/28/2024 12:23	64101	REFR_T1	3	10	7	0.83	0.9	0.07	0.8	0.93	0	0	0	0	0	0
7/28/2024 12:24	53501	EVIL_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
7/28/2024 12:25	20402	ASHF_T2	3	13	10	0.87	0.19	-0.68	0	0	0	0	0	0	0	0
7/28/2024 12:25	20403	ASHF_T2	0	0	0	0	0	0	0.9	0.87	0	0	0	0	0	0
7/28/2024 12:25	53501	EVIL_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
7/28/2024 12:25	20401	ASHF_T2	24	22	-2	0.33	0.62	0.29	0	0	0	0	0	0	0	0
7/28/2024 12:26	60901	DONG_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/28/2024 12:26	60902	DONG_T2	0	0	0	0	0	0	1.2	1.32	0	0	0	0	0	0
7/28/2024 12:26	53501	EVIL_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
7/28/2024 12:26	60904	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/28/2024 12:26	60903	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/28/2024 12:27	60201	ATGL_T2	0	0	0	0	0	0	0.76	0.72	0	0	0	0	0	0
7/28/2024 12:28	45802	HEGI_T2	47	47	0	1.4	1.64	0.24	0.08	0.09	0	0	0	0	0	0
7/28/2024 12:28	25402	LAHA_T2	0	0	0	0	0	0	-0.4	-0.27	0	0	0	0	0	0
7/28/2024 12:29	45702	LIND_T2	4	2	-2	0.53	0.35	-0.18	-1.42	-1.41	0	0	0	0	0	0
7/28/2024 12:29	45802	HEGI_T2	47	47	0	1.4	1.64	0.24	0.08	0.09	0	0	0	0	0	0
7/28/2024 12:31	64704	LITI_T1	0	0	0	0	0	0	0.2	0.28	1	1	0	600	600	0
7/28/2024 12:31	64701	LITI_T1	1	10	9	0.5	0.61	0.11	0	0	0	0	0	0	0	0
7/28/2024 12:32	12701	MACU_T1	0	2	2	0	0	0	-1.58	-1.58	2	2	0	2400	2400	0
7/28/2024 12:33	12701	MACU_T1	0	2	2	0	0	0	-0.79	-0.79	1	1	0	1200	1200	0
7/28/2024 12:33	25402	LAHA_T2	0	0	0	0	0	0	-0.4	-0.27	0	0	0	0	0	0
7/28/2024 12:34	12701	MACU_T1	0	2	2	0	0	0	-0.79	-0.79	1	1	0	1200	1200	0
7/28/2024 12:35	57401	SPAN_T1	1	0	-1	0.4	0	-0.4	-2.39	-2.06	3	3	0	1800	1800	0
7/28/2024 12:36	64101	REFR_T1	10	8	-2	1.02	0.87	-0.15	0.46	0.48	0	0	0	0	0	0
7/28/2024 12:38	64101	REFR_T1	10	8	-2	1.02	0.87	-0.15	0.46	0.48	0	0	0	0	0	0
7/28/2024 12:39	53502	EVIL_T2	0	0	0	0	0	0	-0.15	-0.11	2	2	0	1200	1200	0
7/28/2024 12:41	20402	ASHF_T2	12	11	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/28/2024 12:41	20403	ASHF_T2	0	0	0	0	0	0	0.87	-0.31	0	0	0	0	0	0
7/28/2024 12:41	20401	ASHF_T2	21	15	-6	0.45	0.59	0.14	0	0	0	0	0	0	0	0
7/28/2024 12:41	53502	EVIL_T2	0	0	0	0	0	0	-0.15	-0.11	2	2	0	1200	1200	0
7/28/2024 12:42	57401	SPAN_T1	1	0	-1	0.4	0	-0.4	-0.69	-0.74	1	1	0	600	600	0
7/28/2024 12:42	40201	BEGA_T2	4	5	1	0.33	0.6	0.27	0	0	0	0	0	0	0	0
7/28/2024 12:44	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 12:44	52403	GRPA_T2	46	33	-13	0.81	0.93	0.12	-0.53	-0.56	0	0	0	0	0	0
7/28/2024 12:44	44802	EDAN_T2	0	0	0	0	0	0	-1.62	-1.61	1	1	0	1200	1200	0
7/28/2024 12:44	52404	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 12:44	44801	EDAN_T2	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0	0
7/28/2024 12:44	52401	GRPA_T2	4	2	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/28/2024 12:45	52402	GRPA_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/28/2024 12:45	52404	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/28/2024 12:45	42302	MOWR_T2	5	5	0	0.26	0.1	-0.16	0	0	0	0	0	0	0	0
7/28/2024 12:45	52403	GRPA_T2	33	28	-5	0.91	0.95	0.04	0	0	0	0	0	0	0	0
7/28/2024 12:45	52401	GRPA_T2	2	0	-2	0.2	0	-0.2	-0.29	-0.91	0	0	0	0	0	0
7/28/2024 12:46	52402	GRPA_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/28/2024 12:46	52404	GRPA_T2	2	0	-2	0.2	0	-0.2	0.05	0.03	0	0	0	0	0	0
7/28/2024 12:46	46506	LOHA_T1	2	2	0	0.35	0.3	-0.05	-1.78	-1.78	2	2	0	2100	2100	0
7/28/2024 12:46	52401	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/28/2024 12:46	46501	LOHA_T1	1	1	0	3.3	2.1	-1.2	0	0	0	0	0	0	0	0
7/28/2024 12:46	52403	GRPA_T2	33	28	-5	0.91	0.95	0.04	0	0	0	0	0	0	0	0
7/28/2024 12:47	65401	MARI_T1	9	17	8	1.58	1.86	0.28	0	0	0	0	0	0	0	0
7/28/2024 12:47	52403	GRPA_T2	33	28	-5	0.91	0.95	0.04	0	0	0	0	0	0	0	0
7/28/2024 12:47	52404	GRPA_T2	2	0	-2	0.2	0	-0.2	0.05	0.03	0	0	0	0	0	0
7/28/2024 12:47	52401	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/28/2024 12:47	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 12:47	52402	GRPA_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/28/2024 12:48	13501	MCMI_T1	0	0	0	0	0	0	0.89	0.91	0	0	0	0	0	0
7/28/2024 12:48	64904	MILL_T1	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
7/28/2024 12:48	13502	MCMI_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/28/2024 12:48	52404	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/28/2024 12:48	52402	GRPA_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/28/2024 12:48	52401	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/28/2024 12:48	52403	GRPA_T2	33	28	-5	0.91	0.95	0.04	-0.53	-0.56	0	0	0	0	0	0
7/28/2024 12:49	40602	PIGR_T1	2	1	-1	0.95	0.4	-0.55	-0.73	-1.3	1	1	0	600	600	0
7/28/2024 12:49	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/28/2024 12:49	40603	PIGR_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
7/28/2024 12:50	55002	NEWP_T1	1	2	1	1.7	1	-0.7	0	0	0	0	0	0	0	0
7/28/2024 12:50	55001	NEWP_T1	5	1	-4	0.64	0	-0.64	-1.01	-2.01	2	2	0	1200	1200	0
7/28/2024 12:53	53501	EVIL_T2	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
7/28/2024 12:53	55101	WERT_T1	0	0	0	0	0	0	-1.95	-2.05	3	3	0	2400	2400	0
7/28/2024 12:54	55101	WERT_T1	0	0	0	0	0	0	-5.84	-6.14	9	9	0	7200	7200	0
7/28/2024 12:56	53501	EVIL_T2	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
7/28/2024 12:56	55101	WERT_T1	0	0	0	0	0	0	-3.89	-4.09	6	6	0	4800	4800	0
7/28/2024 12:58	41602	CLEV_T1	2	0	-2	1.2	0	-1.2	0	0	0	0	0	0	0	0
7/28/2024 12:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/28/2024 12:58	67602	WARW_T2	1	6	5	0.3	0.13	-0.17	1.02	1.04	2	2	0	1500	1500	0
7/28/2024 13:00	64305	LINC_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
7/28/2024 13:00	67602	WARW_T2	4	6	2	0.28	0.2	-0.08	3.06	3.12	6	6	0	4500	4500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/28/2024 13:00	64303	LINC_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
7/28/2024 13:01	41002	LAUR_T2	4	4	0	0.73	0.43	-0.3	0.29	0.29	0	0	0	0	0	0
7/28/2024 13:01	67602	WARW_T2	4	6	2	0.28	0.2	-0.08	1.02	1.04	2	2	0	1500	1500	0
7/28/2024 13:01	41001	LAUR_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/28/2024 13:02	67602	WARW_T2	4	6	2	0.28	0.2	-0.08	1.02	1.04	2	2	0	1500	1500	0
7/28/2024 13:02	52404	GRPA_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
7/28/2024 13:02	52403	GRPA_T2	18	45	27	0.97	0.79	-0.18	0	0	0	0	0	0	0	0
7/28/2024 13:02	52402	GRPA_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
7/28/2024 13:03	52403	GRPA_T2	18	45	27	0.97	0.79	-0.18	0	0	0	0	0	0	0	0
7/28/2024 13:03	52404	GRPA_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
7/28/2024 13:03	64305	LINC_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
7/28/2024 13:03	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/28/2024 13:03	52402	GRPA_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
7/28/2024 13:03	29402	BELT_T1	57	71	14	0.62	0.72	0.1	0	0	0	0	0	0	0	0
7/28/2024 13:03	64303	LINC_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
7/28/2024 13:04	53801	MBRG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/28/2024 13:04	53802	MBRG_T2	0	0	0	0	0	0	-0.91	-0.89	0	0	0	0	0	0
7/28/2024 13:06	24902	WHHA_T1	105	141	36	0.76	0.57	-0.19	0.93	0.94	0	0	0	0	0	0
7/28/2024 13:08	58401	MORO_T1	0	2	2	0	0	0	-1.94	-1.9	3	3	0	2100	2100	0
7/28/2024 13:08	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 13:10	61701	ELIZ_T1	2	2	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
7/28/2024 13:10	61703	ELIZ_T1	0	0	0	0	0	0	-1.95	-2.1	2	2	0	2100	2100	0
7/28/2024 13:10	64101	AUGU_T1	4	33	29	0.2	0.3	0.1	0	0	2	2	0	1800	1800	0
7/28/2024 13:11	25603	ARRO_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
7/28/2024 13:14	11101	EGYP_T1	0	0	0	0	0	0	-0.26	-0.26	1	1	0	1200	1200	0
7/28/2024 13:14	61701	ELIZ_T1	2	2	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
7/28/2024 13:14	61703	ELIZ_T1	0	0	0	0	0	0	-3.9	-4.21	4	4	0	4200	4200	0
7/28/2024 13:14	67602	WARW_T2	4	6	2	0.28	0.2	-0.08	1.04	1.02	2	2	0	1500	1500	0
7/28/2024 13:14	11104	EGYP_T1	8	5	-3	0.64	0.13	-0.51	0	0	0	0	0	0	0	0
7/28/2024 13:14	11102	EGYP_T1	3	4	1	1.53	1.53	0	0	0	0	0	0	0	0	0
7/28/2024 13:21	67103	SPRI_T1	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
7/28/2024 13:27	46206	DANV_T2	9	12	3	0.61	0.6	-0.01	0.54	0.55	2	2	0	2100	2100	0
7/28/2024 13:27	46204	DANV_T2	6	7	1	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
7/28/2024 13:28	41602	CLEV_T1	0	1	1	0	0.5	0.5	0	0	1	1	0	600	600	0
7/28/2024 13:29	46206	DANV_T2	9	12	3	0.61	0.6	-0.01	0.54	0.55	2	2	0	2100	2100	0
7/28/2024 13:29	46204	DANV_T2	6	7	1	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
7/28/2024 13:30	22901	HARW_T1	15	12	-3	0.32	0.1	-0.22	-0.41	-0.39	1	1	0	1200	1200	0
7/28/2024 13:30	22903	HARW_T1	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/28/2024 13:30	22905	HARW_T1	16	21	5	0.53	0.24	-0.29	0	0	0	0	0	0	0	0
7/28/2024 13:34	64101	REFR_T1	11	10	-1	1.03	1.13	0.1	1.06	1.13	0	0	0	0	0	0
7/28/2024 13:36	14403	SSLA_T1	6	8	2	0.92	0.45	-0.47	0.29	-0.28	2	2	0	1200	1200	0
7/28/2024 13:36	14404	SSLA_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/28/2024 13:36	14401	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/28/2024 13:38	64101	REFR_T1	11	10	-1	1.03	1.13	0.1	0.57	0	0	0	0	0	0	0
7/28/2024 13:41	53601	DALM_T2	1	0	-1	0.2	0	-0.2	-0.54	-0.54	0	0	0	0	0	0
7/28/2024 13:45	61703	ELIZ_T1	0	0	0	0	0	0	-1.84	-1.96	2	2	0	2100	2100	0
7/28/2024 13:45	61701	ELIZ_T1	1	2	1	2.6	1.5	-1.1	0	0	0	0	0	0	0	0
7/28/2024 13:45	47101	MARL_T1	25	29	4	1.03	1	-0.03	-0.94	-0.93	0	0	0	0	0	0
7/28/2024 13:46	22901	HARW_T1	3	11	8	0.2	0.48	0.28	-0.39	-0.45	1	1	0	1200	1200	0
7/28/2024 13:46	22903	HARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/28/2024 13:46	22905	HARW_T1	21	15	-6	1.11	0.1	-1.01	0	0	0	0	0	0	0	0
7/28/2024 13:47	47101	MARL_T1	25	29	4	1.03	1	-0.03	-0.31	-0.31	0	0	0	0	0	0
7/28/2024 13:48	14204	EALL_T2	0	0	0	0	0	0	-0.15	-0.13	0	0	0	0	0	0
7/28/2024 13:50	47101	MARL_T1	25	29	4	1.03	1	-0.03	-0.31	-0.31	0	0	0	0	0	0
7/28/2024 13:52	59101	WALK_T2	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
7/28/2024 13:53	53502	EVIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/28/2024 13:53	53501	EVIL_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
7/28/2024 13:53	20401	ASHF_T2	7	11	4	0.71	0.84	0.13	0	0	0	0	0	0	0	0
7/28/2024 13:53	20403	ASHF_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
7/28/2024 13:53	20402	ASHF_T2	18	11	-7	0.56	1.73	1.17	0	0	0	0	0	0	0	0
7/28/2024 13:56	44801	EDAN_T2	4	4	0	0.55	0.45	-0.1	-1.25	-1.23	0	0	0	0	0	0
7/28/2024 13:56	20402	ASHF_T2	18	11	-7	0.56	1.73	1.17	0	0	0	0	0	0	0	0
7/28/2024 13:56	20401	ASHF_T2	7	11	4	0.71	0.84	0.13	0.45	0.49	0	0	0	0	0	0
7/28/2024 13:57	53601	DALM_T2	0	0	0	0	0	0	-0.54	-0.49	0	0	0	0	0	0
7/28/2024 13:57	44801	EDAN_T2	4	4	0	0.55	0.45	-0.1	-2.49	-2.46	0	0	0	0	0	0
7/28/2024 13:58	22901	HARW_T1	3	11	8	0.2	0.48	0.28	-0.45	-0.51	1	1	0	1200	1200	0
7/28/2024 13:58	22905	HARW_T1	21	15	-6	1.11	0.1	-1.01	0	0	0	0	0	0	0	0
7/28/2024 13:58	22903	HARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/28/2024 13:59	64302	LINC_T2	4	5	1	0.58	0.6	0.02	1.45	1.41	0	0	0	0	0	0
7/28/2024 13:59	64304	LINC_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 14:06	44203	POIN_T2	6	16	10	1.17	0.54	-0.63	0.61	0.59	1	1	0	900	900	0
7/28/2024 14:06	44202	POIN_T2	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/28/2024 14:06	43108	SMIL_T2	0	0	0	0	0	0	-0.91	-0.9	1	1	0	1200	1200	0
7/28/2024 14:06	64101	REFR_T1	3	4	1	1.13	1.23	0.1	0.04	0.04	0	0	0	0	0	0
7/28/2024 14:08	61102	BERK_T5	0	0	0	0	0	0	0.57	0.59	1	1	0	300	300	0
7/28/2024 14:09	53502	EVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/28/2024 14:09	43108	SMIL_T2	0	0	0	0	0	0	-0.91	-0.9	1	1	0	1200	1200	0
7/28/2024 14:09	53501	EVIL_T2	0	0	0	0	0	0	-0.24	-0.16	0	0	0	0	0	0
7/28/2024 14:11	46206	DANV_T2	7	16	9	0.7	0.7	0	0.61	0.67	2	2	0	2100	2100	0
7/28/2024 14:11	46204	DANV_T2	2	17	15	1.45	0.4	-1.05	0	0	0	0	0	0	0	0
7/28/2024 14:15	64304	LINC_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
7/28/2024 14:15	64302	LINC_T2	4	7	3	0.83	0.6	-0.23	1.41	1.43	0	0	0	0	0	0
7/28/2024 14:18	56501	ROCK_T2	2	1	-1	0.65	0.7	0.05	0	0	0	0	0	0	0	0
7/28/2024 14:18	56504	ROCK_T2	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
7/28/2024 14:19	56504	ROCK_T2	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
7/28/2024 14:19	56501	ROCK_T2	2	1	-1	0.65	0.7	0.05	0	0	0	0	0	0	0	0
7/28/2024 14:20	56504	ROCK_T2	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
7/28/2024 14:20	56501	ROCK_T2	2	1	-1	0.65	0.7	0.05	0	0	0	0	0	0	0	0
7/28/2024 14:20	13503	MCMI_T2	2	2	0	0.3	0.35	0.05	-0.59	-0.56	0	0	0	0	0	0
7/28/2024 14:21	56501	ROCK_T2	2	1	-1	0.65	0.7	0.05	0	0	0	0	0	0	0	0
7/28/2024 14:21	56504	ROCK_T2	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
7/28/2024 14:23	44202	POIN_T2	0	1	1	0	0.4	0.4	-0.58	-0.56	1	1	0	1200	1200	0
7/28/2024 14:23	56501	ROCK_T2	2	1	-1	0.65	0.7	0.05	0	0	0	0	0	0	0	0
7/28/2024 14:23	44203	POIN_T2	5	17	12	0.54	0.81	0.27	0	0	0	0	0	0	0	0
7/28/2024 14:23	56504	ROCK_T2	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
7/28/2024 14:24	44301	BEAV_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/28/2024 14:24	44302	BEAV_T2	1	0	-1	0.3	0	-0.3	0.4	0.42	0	0	0	0	0	0
7/28/2024 14:25	46203	DANV_T2	0	0	0	0	0	0	-1.47	-1.42	0	0	0	0	0	0
7/28/2024 14:25	46204	DANV_T2	1	29	28	0.4	0.22	-0.18	0	0	0	0	0	0	0	0
7/28/2024 14:25	46206	DANV_T2	8	30	22	0.61	0.49	-0.12	0	0	0	0	0	0	0	0
7/28/2024 14:29	46203	DANV_T2	0	0	0	0	0	0	-1.47	-1.42	0	0	0	0	0	0
7/28/2024 14:29	46206	DANV_T2	8	30	22	0.61	0.49	-0.12	0	0	0	0	0	0	0	0
7/28/2024 14:29	46204	DANV_T2	1	29	28	0.4	0.22	-0.18	0	0	0	0	0	0	0	0
7/28/2024 14:29	11804	FRAN_T1	177	237	60	0.82	1.07	0.25	1.25	1.23	0	0	0	0	0	0
7/28/2024 14:34	56504	ROCK_T2	0	1	1	0	0	0	0.39	0.41	0	0	0	0	0	0
7/28/2024 14:34	56501	ROCK_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
7/28/2024 14:38	45302	WBER_T2	12	10	-2	0.43	0.25	-0.18	3.17	3.18	0	0	0	0	0	0
7/28/2024 14:44	63804	HEMP_T1	1	1	0	7	7.1	0.1	0.01	0.04	0	0	0	0	0	0
7/28/2024 14:46	21204	ECAR_T2	1	1	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
7/28/2024 14:46	21206	ECAR_T2	17	13	-4	1.22	1.27	0.05	0	0	0	0	0	0	0	0
7/28/2024 14:46	21202	ECAR_T2	3	2	-1	0.83	0.95	0.12	0	0	0	0	0	0	0	0
7/28/2024 14:47	52006	LING_T2	3	6	3	0.37	1.08	0.71	0	0	0	0	0	0	0	0
7/28/2024 14:47	52004	LING_T2	3	3	0	2.63	2.63	0	0.12	0.13	0	0	0	0	0	0
7/28/2024 14:47	52002	LING_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/28/2024 14:51	57401	SPAN_T1	27	17	-10	0.47	0.73	0.26	-0.82	-0.8	1	1	0	600	600	0
7/28/2024 14:51	57403	SPAN_T1	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
7/28/2024 14:54	57403	SPAN_T1	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
7/28/2024 14:54	57401	SPAN_T1	27	17	-10	0.47	0.73	0.26	-0.8	-0.75	1	1	0	600	600	0
7/28/2024 14:54	42701	AUGU_T1	61	64	3	0.9	0.84	-0.06	0	0	2	2	0	1800	1800	0
7/28/2024 14:57	20402	ASHF_T2	14	52	38	1.81	0.89	-0.92	0	0	0	0	0	0	0	0
7/28/2024 14:57	20403	ASHF_T2	15	5	-10	0.31	0.2	-0.11	-0.13	-0.13	0	0	0	0	0	0
7/28/2024 14:57	20401	ASHF_T2	22	34	12	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
7/28/2024 15:00	53601	DALM_T2	3	2	-1	0.3	0.55	0.25	-0.47	-0.48	0	0	0	0	0	0
7/28/2024 15:01	22901	HARW_T1	10	10	0	0.43	0.47	0.04	-0.44	-0.47	1	1	0	1200	1200	0
7/28/2024 15:01	22903	HARW_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
7/28/2024 15:01	22905	HARW_T1	12	13	1	0.49	0	-0.49	0	0	0	0	0	0	0	0
7/28/2024 15:02	13503	MCMI_T2	2	1	-1	0.25	0.5	0.25	-0.58	-0.54	0	0	0	0	0	0
7/28/2024 15:02	40901	JESH_T1	5	5	0	1.48	1.24	-0.24	-0.84	-0.86	2	2	0	1500	1500	0
7/28/2024 15:07	66901	SHIL_T2	0	0	0	0	0	0	-0.81	-0.8	1	1	0	1200	1200	0
7/28/2024 15:10	10801	CHHI_T1	205	208	3	1.08	1.01	-0.07	-0.98	-0.98	3	3	0	2100	2100	0
7/28/2024 15:12	10801	CHHI_T1	205	208	3	1.08	1.01	-0.07	-0.98	-0.98	3	3	0	2100	2100	0
7/28/2024 15:13	40101	HUNT_T2	26	42	16	0.33	0.47	0.14	-0.16	-0.16	0	0	0	0	0	0
7/28/2024 15:19	66703	STRA_T1	0	9	9	0	0.38	0.38	0	0	0	0	0	0	0	0
7/28/2024 15:19	66701	STRA_T1	6	8	2	0.23	0.48	0.25	0.74	0.74	1	1	0	600	600	0
7/28/2024 15:20	14402	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 15:20	14401	SSLA_T1	1	4	3	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/28/2024 15:20	14403	SSLA_T1	1	5	4	0.2	0.45	0.25	-0.16	-0.26	3	3	0	1800	1800	0
7/28/2024 15:20	54001	SDLE_T1	2	13	11	0.35	0.3	-0.05	0	0	2	2	0	1200	1200	0
7/28/2024 15:23	14403	SSLA_T1	1	5	4	0.2	0.45	0.25	-0.26	-0.22	3	3	0	1800	1800	0
7/28/2024 15:23	14402	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 15:23	14401	SSLA_T1	1	4	3	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/28/2024 15:27	51804	EBEN_T2	0	0	0	0	0	0	-0.63	-0.63	1	1	0	900	900	0
7/28/2024 15:27	51802	EBEN_T2	1	2	1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/28/2024 15:28	40201	BEGA_T2	11	53	42	0.71	0.75	0.04	0	0	0	0	0	0	0	0
7/28/2024 15:31	46501	LOHA_T1	3	3	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
7/28/2024 15:31	46506	LOHA_T1	0	0	0	0	0	0	-1.59	-1.6	2	2	0	2100	2100	0
7/28/2024 15:31	46503	LOHA_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
7/28/2024 15:33	45602	WOOL_T1	51	15	-36	0.49	0.83	0.34	0	0	0	0	0	0	0	0
7/28/2024 15:33	45601	WOOL_T1	258	341	83	0.67	0.74	0.07	0	0	1	1	0	1200	1200	0
7/28/2024 15:34	46506	LOHA_T1	0	0	0	0	0	0	-1.59	-1.6	2	2	0	2100	2100	0
7/28/2024 15:34	46503	LOHA_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
7/28/2024 15:34	46501	LOHA_T1	3	3	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
7/28/2024 15:37	14401	SSLA_T1	4	9	5	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/28/2024 15:37	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/28/2024 15:37	14403	SSLA_T1	4	9	5	0.45	0.45	0	-0.22	-0.19	3	3	0	1800	1800	0
7/28/2024 15:37	14402	SSLA_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
7/28/2024 15:39	20402	ASHF_T2	29	20	-9	0.63	0.48	-0.15	0	0	0	0	0	0	0	0
7/28/2024 15:39	20401	ASHF_T2	22	18	-4	0.52	0.8	0.28	0	0	0	0	0	0	0	0
7/28/2024 15:39	20403	ASHF_T2	29	18	-11	0.52	0.45	-0.07	-0.08	-0.1	0	0	0	0	0	0
7/28/2024 15:41	14303	SUMN_T1	5	10	5	2.52	7.9	5.38	0	0	0	0	0	0	0	0
7/28/2024 15:41	14308	SUMN_T1	6	4	-2	0.25	0.4	0.15	0	0	0	0	0	0	0	0
7/28/2024 15:41	14307	SUMN_T1	3	3	0	0.4	0	-0.4	-1.54	-1.67	0	0	0	0	0	0
7/28/2024 15:41	14301	SUMN_T1	2	5	3	0.5	0	-0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/28/2024 15:41	14302	SUMN_T1	5	16	11	0.12	0.41	0.29	0	0	0	0	0	0	0	0
7/28/2024 15:41	14306	SUMN_T1	18	19	1	0.61	0	-0.61	0	0	0	0	0	0	0	0
7/28/2024 15:43	40201	BEGA_T2	20	62	42	0.74	0.54	-0.2	0	0	0	0	0	0	0	0
7/28/2024 15:44	45602	WOOL_T1	51	15	-36	0.49	0.83	0.34	0	0	2	2	0	1800	1800	0
7/28/2024 15:44	45601	WOOL_T1	258	341	83	0.67	0.74	0.07	0	0	0	0	0	0	0	0
7/28/2024 15:50	64101	REFR_T1	10	10	0	1.17	0.89	-0.28	0.09	0.06	0	0	0	0	0	0
7/28/2024 15:51	66701	STRA_T1	6	11	5	0.93	0.71	-0.22	0	0	0	0	0	0	0	0
7/28/2024 15:51	64101	REFR_T1	10	10	0	1.17	0.89	-0.28	0.06	0.11	0	0	0	0	0	0
7/28/2024 15:51	66703	STRA_T1	9	13	4	0.44	0.54	0.1	-0.35	-0.44	0	0	0	0	0	0
7/28/2024 15:52	44202	POIN_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
7/28/2024 15:52	44203	POIN_T2	54	58	4	0.57	0.57	0	0.61	0.63	1	1	0	900	900	0
7/28/2024 15:53	44203	POIN_T2	54	58	4	0.57	0.57	0	0.61	0.63	1	1	0	900	900	0
7/28/2024 15:53	44202	POIN_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
7/28/2024 15:54	61101	BERK_T5	8	10	2	0.64	0.5	-0.14	0	0	0	0	0	0	0	0
7/28/2024 15:54	61102	BERK_T5	0	0	0	0	0	0	-0.49	-0.48	4	4	0	2400	2400	0
7/28/2024 15:55	61101	BERK_T5	8	10	2	0.64	0.5	-0.14	0	0	0	0	0	0	0	0
7/28/2024 15:55	58803	COCO_T1	2	3	1	0.3	0.6	0.3	-0.67	-0.66	1	1	0	600	600	0
7/28/2024 15:55	61102	BERK_T5	0	0	0	0	0	0	-0.24	-0.24	2	2	0	1200	1200	0
7/28/2024 15:56	61101	BERK_T5	8	10	2	0.64	0.5	-0.14	0	0	0	0	0	0	0	0
7/28/2024 15:56	61102	BERK_T5	0	0	0	0	0	0	-0.49	-0.48	4	4	0	2400	2400	0
7/28/2024 15:58	42701	AUGU_T1	68	74	6	1.17	1.12	-0.05	0	0	2	2	0	1800	1800	0
7/28/2024 16:00	42902	MIDD_T2	22	28	6	0.9	0.73	-0.17	-0.25	-0.24	0	0	0	0	0	0
7/28/2024 16:00	42901	MIDD_T2	6	5	-1	0.77	1.13	0.36	0	0	0	0	0	0	0	0
7/28/2024 16:01	42901	MIDD_T2	6	5	-1	0.77	1.13	0.36	0	0	0	0	0	0	0	0
7/28/2024 16:01	52403	GRPA_T2	70	113	43	1.51	1.25	-0.26	0	0	0	0	0	0	0	0
7/28/2024 16:01	52401	GRPA_T2	82	81	-1	0.72	0.56	-0.16	0	0	0	0	0	0	0	0
7/28/2024 16:01	52404	GRPA_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
7/28/2024 16:01	52402	GRPA_T2	16	78	62	0.62	1.18	0.56	-0.3	-0.32	0	0	0	0	0	0
7/28/2024 16:01	42902	MIDD_T2	22	28	6	0.9	0.73	-0.17	-0.25	-0.24	0	0	0	0	0	0
7/28/2024 16:02	42901	MIDD_T2	6	5	-1	0.77	1.13	0.36	0	0	0	0	0	0	0	0
7/28/2024 16:02	40101	HUNT_T2	48	134	86	0.5	0.5	0	-0.07	-0.15	0	0	0	0	0	0
7/28/2024 16:02	42902	MIDD_T2	22	28	6	0.9	0.73	-0.17	-0.25	-0.24	0	0	0	0	0	0
7/28/2024 16:04	56504	ROCK_T2	8	6	-2	0.44	0.3	-0.14	0	0	0	0	0	0	0	0
7/28/2024 16:04	56501	ROCK_T2	1	1	0	0.8	0.4	-0.4	-1.54	-1.5	0	0	0	0	0	0
7/28/2024 16:05	52404	GRPA_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
7/28/2024 16:05	52401	GRPA_T2	82	81	-1	0.72	0.56	-0.16	0	0	0	0	0	0	0	0
7/28/2024 16:05	52402	GRPA_T2	16	78	62	0.62	1.18	0.56	-0.3	-0.32	0	0	0	0	0	0
7/28/2024 16:05	56501	ROCK_T2	1	1	0	0.8	0.4	-0.4	-1.54	-1.5	0	0	0	0	0	0
7/28/2024 16:05	56504	ROCK_T2	8	6	-2	0.44	0.3	-0.14	0	0	0	0	0	0	0	0
7/28/2024 16:05	52403	GRPA_T2	70	113	43	1.51	1.25	-0.26	0	0	0	0	0	0	0	0
7/28/2024 16:06	43104	SMIL_T2	0	0	0	0	0	0	-0.27	-0.29	1	1	0	300	300	0
7/28/2024 16:06	56504	ROCK_T2	8	6	-2	0.44	0.3	-0.14	0	0	0	0	0	0	0	0
7/28/2024 16:06	56501	ROCK_T2	1	1	0	0.8	0.4	-0.4	-1.54	-1.5	0	0	0	0	0	0
7/28/2024 16:06	64101	REFR_T1	10	11	1	0.89	1.13	0.24	0.11	0.12	0	0	0	0	0	0
7/28/2024 16:06	43101	SMIL_T2	3	5	2	0.6	0.38	-0.22	0	0	0	0	0	0	0	0
7/28/2024 16:06	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 16:07	56504	ROCK_T2	8	6	-2	0.44	0.3	-0.14	0	0	0	0	0	0	0	0
7/28/2024 16:07	56501	ROCK_T2	1	1	0	0.8	0.4	-0.4	-1.5	-1.45	0	0	0	0	0	0
7/28/2024 16:08	43104	SMIL_T2	0	0	0	0	0	0	-0.27	-0.29	1	1	0	300	300	0
7/28/2024 16:08	43101	SMIL_T2	3	5	2	0.6	0.38	-0.22	-0.61	-0.64	1	1	0	300	300	0
7/28/2024 16:08	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 16:09	56504	ROCK_T2	8	6	-2	0.44	0.3	-0.14	0	0	0	0	0	0	0	0
7/28/2024 16:09	44301	BEAV_T2	3	6	3	0.83	0.3	-0.53	-1	-0.97	1	1	0	600	600	0
7/28/2024 16:09	43101	SMIL_T2	3	5	2	0.6	0.38	-0.22	0	0	0	0	0	0	0	0
7/28/2024 16:09	56501	ROCK_T2	1	1	0	0.8	0.4	-0.4	-3	-2.9	0	0	0	0	0	0
7/28/2024 16:09	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 16:09	43104	SMIL_T2	0	0	0	0	0	0	-0.27	-0.29	1	1	0	300	300	0
7/28/2024 16:11	57401	SPAN_T1	1	3	2	2.6	0	-2.6	-1.55	-1.56	2	2	0	1500	1500	0
7/28/2024 16:11	15001	BLMO_T1	26	29	3	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
7/28/2024 16:11	57403	SPAN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/28/2024 16:12	61304	EARL_T1	0	0	0	0	0	0	0.19	0.15	1	1	0	600	600	0
7/28/2024 16:12	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 16:13	44301	BEAV_T2	3	6	3	0.83	0.3	-0.53	-1	-0.97	1	1	0	600	600	0
7/28/2024 16:15	42902	MIDD_T2	19	29	10	0.78	0.91	0.13	-0.24	-0.24	0	0	0	0	0	0
7/28/2024 16:15	42901	MIDD_T2	3	6	3	1.13	1.2	0.07	0	0	0	0	0	0	0	0
7/28/2024 16:16	42902	MIDD_T2	19	29	10	0.78	0.91	0.13	-0.24	-0.24	0	0	0	0	0	0
7/28/2024 16:16	56802	BENV_T2	3	4	1	1.77	0.53	-1.24	-0.7	-0.67	0	0	0	0	0	0
7/28/2024 16:16	42901	MIDD_T2	3	6	3	1.13	1.2	0.07	0	0	0	0	0	0	0	0
7/28/2024 16:17	42901	MIDD_T2	3	6	3	1.13	1.2	0.07	0	0	0	0	0	0	0	0
7/28/2024 16:17	42902	MIDD_T2	19	29	10	0.78	0.91	0.13	0	0	0	0	0	0	0	0
7/28/2024 16:18	42901	MIDD_T2	3	6	3	1.13	1.2	0.07	0	0	0	0	0	0	0	0
7/28/2024 16:18	42902	MIDD_T2	19	29	10	0.78	0.91	0.13	-0.24	-0.24	0	0	0	0	0	0
7/28/2024 16:18	57702	PAXT_T1	10	13	3	0.41	0.42	0.01	-0.31	-0.33	0	0	0	0	0	0
7/28/2024 16:19	43202	MVIL_T2	0	2	2	0	0	0	-0.49	-0.47	0	0	0	0	0	0
7/28/2024 16:19	43201	MVIL_T2	2	5	3	0.6	1.05	0.45	0	0	0	0	0	0	0	0
7/28/2024 16:20	42901	MIDD_T2	3	6	3	1.13	1.2	0.07	0	0	0	0	0	0	0	0
7/28/2024 16:20	42902	MIDD_T2	19	29	10	0.78	0.91	0.13	-0.24	-0.24	0	0	0	0	0	0
7/28/2024 16:21	42902	MIDD_T2	19	29	10	0.78	0.91	0.13	-0.24	-0.21	0	0	0	0	0	0
7/28/2024 16:21	42901	MIDD_T2	3	6	3	1.13	1.2	0.07	0	0	0	0	0	0	0	0
7/28/2024 16:22	64101	REFR_T1	10	12	2	1.12	0.88	-0.24	0.12	0.14	0	0	0	0	0	0
7/28/2024 16:24	43104	SMIL_T2	0	0	0	0	0	0	-0.29	-0.36	1	1	0	300	300	0
7/28/2024 16:24	43103	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 16:24	43108	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/28/2024 16:24	43101	SMIL_T2	5	5	0	0.4	0.44	0.04	0	0	0	0	0	0	0	0
7/28/2024 16:26	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
7/28/2024 16:31	44301	BEAV_T2	4	6	2	0.33	0.4	0.07	-0.97	-0.98	1	1	0	600	600	0
7/28/2024 16:33	47802	MOCA_T2	0	0	0	0	0	0	-0.56	-0.6	0	0	0	0	0	0
7/28/2024 16:35	58401	MORO_T1	6	8	2	0.73	0.66	-0.07	-1.64	-1.6	3	3	0	2100	2100	0
7/28/2024 16:35	58402	MORO_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/28/2024 16:37	57401	SPAN_T1	0	1	1	0	0	0	-1.57	-1.58	2	2	0	1500	1500	0
7/28/2024 16:37	67501	WEWI_T1	3	1	-2	0.67	0.1	-0.57	0	0	0	0	0	0	0	0
7/28/2024 16:37	67505	WEWI_T1	0	0	0	0	0	0	0.22	0.22	1	1	0	900	900	0
7/28/2024 16:38	66703	STRA_T1	33	38	5	0.36	0.3	-0.06	-0.37	-0.34	0	0	0	0	0	0
7/28/2024 16:38	66701	STRA_T1	13	26	13	0.82	0.71	-0.11	0	0	0	0	0	0	0	0
7/28/2024 16:45	42301	MOWR_T2	18	37	19	0.5	0.42	-0.08	0	0	0	0	0	0	0	0
7/28/2024 16:45	42302	MOWR_T2	3	1	-2	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/28/2024 16:47	58203	NEWV_T2	43	61	18	0.61	0.62	0.01	-0.77	-0.76	0	0	0	0	0	0
7/28/2024 16:52	55001	NEWP_T1	3	6	3	0.5	0.63	0.13	-0.88	-0.85	1	1	0	600	600	0
7/28/2024 16:53	64101	REFR_T1	11	13	2	1.15	1.57	0.42	0.13	0.11	0	0	0	0	0	0
7/28/2024 16:54	55102	WERT_T2	4	1	-3	0.58	0	-0.58	-1.52	-1.49	2	2	0	1200	1200	0
7/28/2024 16:56	55102	WERT_T2	4	1	-3	0.58	0	-0.58	-1.52	-1.49	2	2	0	1200	1200	0
7/28/2024 16:58	41602	CLEV_T1	14	73	59	0.64	0.52	-0.12	0	0	1	1	0	600	600	0
7/28/2024 17:02	52401	GRPA_T2	105	21	-84	0.84	0.37	-0.47	0	0	0	0	0	0	0	0
7/28/2024 17:02	52402	GRPA_T2	24	21	-3	0.85	0.59	-0.26	0	0	0	0	0	0	0	0
7/28/2024 17:02	52403	GRPA_T2	110	135	25	1.46	1.77	0.31	-0.31	-0.34	0	0	0	0	0	0
7/28/2024 17:02	52404	GRPA_T2	23	17	-6	0.59	0.36	-0.23	0	0	0	0	0	0	0	0
7/28/2024 17:05	52403	GRPA_T2	110	135	25	1.46	1.77	0.31	-0.31	-0.34	0	0	0	0	0	0
7/28/2024 17:05	52404	GRPA_T2	23	17	-6	0.59	0.36	-0.23	0	0	0	0	0	0	0	0
7/28/2024 17:05	52401	GRPA_T2	105	21	-84	0.84	0.37	-0.47	0	0	0	0	0	0	0	0
7/28/2024 17:05	52402	GRPA_T2	24	21	-3	0.85	0.59	-0.26	0	0	0	0	0	0	0	0
7/28/2024 17:06	51004	NHAR_T1	1	2	1	7.6	7.4	-0.2	-1.72	-1.75	0	0	0	0	0	0
7/28/2024 17:17	64302	LINC_T2	18	24	6	0.75	0.55	-0.2	1.54	1.55	0	0	0	0	0	0
7/28/2024 17:18	14603	SWHI_T1	7	19	12	0.83	0.67	-0.16	0	0	0	0	0	0	0	0
7/28/2024 17:18	14601	SWHI_T1	2	15	13	1.75	1.2	-0.55	-0.01	-0.01	0	0	0	0	0	0
7/28/2024 17:18	14605	SWHI_T1	13	20	7	0.35	0.44	0.09	0	0	0	0	0	0	0	0
7/28/2024 17:21	65602	QVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/28/2024 17:21	65604	QVIL_T2	10	14	4	0.27	0.35	0.08	0	0	0	0	0	0	0	0
7/28/2024 17:21	65603	QVIL_T2	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
7/28/2024 17:22	12305	LANA_T2	13	18	5	0.58	0.52	-0.06	0	0	0	0	0	0	0	0
7/28/2024 17:22	12304	LANA_T2	7	16	9	0.54	0.56	0.02	0	0	0	0	0	0	0	0
7/28/2024 17:22	12301	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 17:22	12302	LANA_T2	0	0	0	0	0	0	-1.7	-1.75	3	3	0	2700	2700	0
7/28/2024 17:24	43101	SMIL_T2	4	16	12	0.78	0.43	-0.35	0	0	0	0	0	0	0	0
7/28/2024 17:24	43108	SMIL_T2	2	3	1	0.2	0.3	0.1	-0.78	-0.79	1	1	0	1200	1200	0
7/28/2024 17:24	67502	WEWI_T2	24	66	42	0.58	0.46	-0.12	0	0	0	0	0	0	0	0
7/28/2024 17:24	67503	WEWI_T2	118	107	-11	0.71	0.63	-0.08	-0.56	-0.59	1	1	0	600	600	0
7/28/2024 17:24	43103	SMIL_T2	0	5	5	0	0.15	0.15	0	0	0	0	0	0	0	0
7/28/2024 17:28	61702	ELIZ_T2	0	2	2	0	0	0	-1.18	-1.18	2	2	0	1500	1500	0
7/28/2024 17:28	61704	ELIZ_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 17:36	65604	QVIL_T2	12	9	-3	0.43	0.42	-0.01	0	0	0	0	0	0	0	0
7/28/2024 17:36	65601	QVIL_T2	0	0	0	0	0	0	0.14	0.16	1	1	0	900	900	0
7/28/2024 17:36	65602	QVIL_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/28/2024 17:38	51004	NHAR_T1	2	9	7	4.15	2	-2.15	0	0	0	0	0	0	0	0
7/28/2024 17:38	51003	NHAR_T1	0	0	0	0	0	0	-2.52	-2.62	1	1	0	1200	1200	0
7/28/2024 17:41	67503	WEWI_T2	98	110	12	0.64	0.68	0.04	-0.59	-0.57	1	1	0	600	600	0
7/28/2024 17:41	62607	ENGL_T1	8	11	3	0.83	0.54	-0.29	-0.14	-0.16	1	1	0	300	300	0
7/28/2024 17:41	67502	WEWI_T2	49	65	16	0.5	0.65	0.15	0	0	0	0	0	0	0	0
7/28/2024 17:41	62606	ENGL_T1	33	34	1	1.34	0.86	-0.48	0	0	0	0	0	0	0	0
7/28/2024 17:41	62604	ENGL_T1	8	12	4	0.59	0.5	-0.09	0	0	0	0	0	0	0	0
7/28/2024 17:48	14601	SWHI_T1	15	16	1	0.55	0.6	0.05	0	0	0	0	0	0	0	0
7/28/2024 17:48	14605	SWHI_T1	15	17	2	0.39	0.73	0.34	0	0	0	0	0	0	0	0
7/28/2024 17:48	14603	SWHI_T1	17	15	-2	0.9	0.75	-0.15	-2.1	-2.11	4	4	0	2400	2400	0
7/28/2024 17:53	47403	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/28/2024 17:53	47401	PENS_T1	5	3	-2	0.66	0.5	-0.16	0.4	0.39	0	0	0	0	0	0
7/28/2024 17:53	47402	PENS_T1	6	1	-5	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/28/2024 17:59	63304	GREE_T1	0	0	0	0	0	0	-6.28	-6.4	2	2	0	2400	2400	0
7/28/2024 17:59	63303	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 18:01	40101	HUNT_T2	162	100	-62	0.66	0.61	-0.05	-0.08	-0.1	0	0	0	0	0	0
7/28/2024 18:11	20401	ASHF_T2	11	10	-1	0.46	0.37	-0.09	0	0	0	0	0	0	0	0
7/28/2024 18:11	20402	ASHF_T2	133	28	-105	0.44	0.54	0.1	0	0	0	0	0	0	0	0
7/28/2024 18:11	20403	ASHF_T2	4	12	8	0.9	0.36	-0.54	-0.05	-0.09	0	0	0	0	0	0
7/28/2024 18:16	47001	HUGH_T2	8	5	-3	2.71	5.87	3.16	-0.94	-0.9	1	1	0	900	900	0
7/28/2024 18:16	47002	HUGH_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 18:17	40101	HUNT_T2	74	111	37	0.61	0.44	-0.17	-0.1	-0.11	0	0	0	0	0	0
7/28/2024 18:19	67103	SPRI_T1	0	0	0	0	0	0	-0.61	-0.63	0	0	0	0	0	0
7/28/2024 18:23	45402	WBLO_T2	1	2	1	0.2	0	-0.2	-0.81	-0.79	1	1	0	900	900	0
7/28/2024 18:30	63804	HEMP_T1	2	1	-1	4.6	7.2	2.6	0.03	0.03	0	0	0	0	0	0
7/28/2024 18:30	63803	HEMP_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/28/2024 18:30	63802	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 18:32	46101	MACI_T2	0	0	0	0	0	0	-0.51	-0.51	1	1	0	1200	1200	0
7/28/2024 18:34	64101	REFR_T1	3	8	5	0.33	0.2	-0.13	0.11	0.1	0	0	0	0	0	0
7/28/2024 18:34	46102	MACI_T1	0	0	0	0	0	0	0.95	0.97	0	0	0	0	0	0
7/28/2024 18:36	57104	SPHI_T2	0	0	0	0	0	0	-1.81	-1.83	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/28/2024 18:36	57106	SPHI_T2	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
7/28/2024 18:36	46001	BERW_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/28/2024 18:36	57101	SPHI_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
7/28/2024 18:38	46001	BERW_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/28/2024 18:39	43301	WATS_T2	0	2	2	0	0.1	0.1	0	-0.01	1	1	0	900	900	0
7/28/2024 18:39	43304	WATS_T2	18	51	33	0.54	0.64	0.1	0	0	0	0	0	0	0	0
7/28/2024 18:40	15001	BLMO_T1	4	3	-1	0.48	0	-0.48	0	0	0	0	0	0	0	0
7/28/2024 18:41	15001	BLMO_T1	4	3	-1	0.48	0	-0.48	0	0	0	0	0	0	0	0
7/28/2024 18:42	15001	BLMO_T1	4	3	-1	0.48	0	-0.48	0	0	0	0	0	0	0	0
7/28/2024 18:50	41901	REED_T1	4	3	-1	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
7/28/2024 18:50	41902	REED_T1	99	64	-35	0.66	0.5	-0.16	0.5	0.47	1	1	0	900	900	0
7/28/2024 18:51	65802	RTWN_T2	0	0	0	0	0	0	0	0.66	0	0	0	0	0	0
7/28/2024 18:51	65803	RTWN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
7/28/2024 18:51	56504	ROCK_T2	17	17	0	0.9	1.44	0.54	0.64	0.6	0	0	0	0	0	0
7/28/2024 18:51	65602	QVIL_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/28/2024 18:51	56501	ROCK_T2	2	3	1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/28/2024 18:51	65603	QVIL_T2	0	0	0	0	0	0	-0.24	-0.29	0	0	0	0	0	0
7/28/2024 18:51	65604	QVIL_T2	3	4	1	0.53	0	-0.53	0	0	0	0	0	0	0	0
7/28/2024 18:52	15202	SFAR_T1	1	1	0	0.1	0	-0.1	-0.3	-0.33	1	1	0	1200	1200	0
7/28/2024 18:54	44201	POIN_T1	0	0	0	0	0	0	-1.35	-1.38	1	1	0	1200	1200	0
7/28/2024 18:57	60701	BREC_T1	1	0	-1	0.4	0	-0.4	-0.46	-0.52	2	2	0	1200	1200	0
7/28/2024 19:00	12006	HATF_T1	0	0	0	0	0	0	0.63	0.7	1	1	0	1200	1200	0
7/28/2024 19:04	66202	SISP_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
7/28/2024 19:04	66203	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 19:07	65803	RTWN_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
7/28/2024 19:07	65802	RTWN_T2	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
7/28/2024 19:07	66202	SISP_T2	0	0	0	0	0	0	-0.71	-0.76	0	0	0	0	0	0
7/28/2024 19:07	66203	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 19:08	57106	SPHI_T2	3	3	0	0.27	0.8	0.53	0	0	0	0	0	0	0	0
7/28/2024 19:08	57101	SPHI_T2	6	6	0	0.2	0.72	0.52	0	0	0	0	0	0	0	0
7/28/2024 19:08	57103	SPHI_T2	0	0	0	0	0	0	-0.79	-0.77	1	1	0	600	600	0
7/28/2024 19:14	12602	MACA_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/28/2024 19:14	12606	MACA_T1	41	48	7	1.99	2.05	0.06	0.59	0.61	1	1	0	900	900	0
7/28/2024 19:14	12601	MACA_T1	10	7	-3	1.13	0.3	-0.83	0	0	0	0	0	0	0	0
7/28/2024 19:15	64701	LITI_T1	0	6	6	0	0	0	-0.23	-0.21	1	1	0	900	900	0
7/28/2024 19:17	63501	HEID_TBK1-2	0	0	0	0	0	0	0.31	0.32	1	1	0	900	900	0
7/28/2024 19:19	46102	MACI_T1	0	0	0	0	0	0	0.95	0.95	0	0	0	0	0	0
7/28/2024 19:20	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/28/2024 19:22	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/28/2024 19:25	46206	DANV_T2	17	22	5	0.55	0.37	-0.18	0	0	0	0	0	0	0	0
7/28/2024 19:25	46204	DANV_T2	18	11	-7	0.42	0.38	-0.04	0	0	0	0	0	0	0	0
7/28/2024 19:25	46203	DANV_T2	4	0	-4	0.25	0	-0.25	-2.3	-2.31	0	0	0	0	0	0
7/28/2024 19:30	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 19:30	14603	SWHI_T1	7	7	0	0.5	0.2	-0.3	-1.11	-1.13	2	2	0	1200	1200	0
7/28/2024 19:34	15603	NSTR_T2	0	0	0	0	0	0	-1.02	-1.02	0	0	0	0	0	0
7/28/2024 19:34	15601	NSTR_T2	3	3	0	1.1	1.47	0.37	0	0	0	0	0	0	0	0
7/28/2024 19:37	52501	PROG_T1	3	10	7	0.13	0.15	0.02	-0.68	-0.73	1	1	0	300	300	0
7/28/2024 19:37	52504	PROG_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
7/28/2024 19:42	11102	EGYP_T1	10	8	-2	1.25	0.62	-0.63	0	0	0	0	0	0	0	0
7/28/2024 19:42	11101	EGYP_T1	0	1	1	0	0.2	0.2	0.15	0.1	1	1	0	1200	1200	0
7/28/2024 19:42	11104	EGYP_T1	7	7	0	0.93	0.72	-0.21	0	0	0	0	0	0	0	0
7/28/2024 19:44	12202	FOGE_T2	0	0	0	0	0	0	-0.68	-0.82	1	1	0	600	600	0
7/28/2024 19:53	57603	RUTH_T2	1	1	0	1.8	1.3	-0.5	0	0	0	0	0	0	0	0
7/28/2024 19:53	57601	RUTH_T2	0	0	0	0	0	0	-1.87	-1.8	1	1	0	900	900	0
7/28/2024 20:21	58402	MORO_T1	2	0	-2	0.25	0	-0.25	-0.18	-0.23	3	3	0	1950	1950	0
7/28/2024 20:21	58401	MORO_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/28/2024 20:43	58701	ROSE_T2	0	0	0	0	0	0	-1.67	-1.68	1	1	0	600	600	0
7/28/2024 20:43	58705	ROSE_T2	4	5	1	0.75	0.62	-0.13	0	0	0	0	0	0	0	0
7/28/2024 20:43	58702	ROSE_T2	1	1	0	5.3	1.2	-4.1	0	0	0	0	0	0	0	0
7/28/2024 20:43	58706	ROSE_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
7/28/2024 20:46	46803	HEPB_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/28/2024 20:46	46801	HEPB_T2	3	6	3	0.67	0.53	-0.14	0.14	0.13	0	0	0	0	0	0
7/28/2024 20:46	64305	LINC_T1	1	1	0	0.5	0	-0.5	-0.03	-0.06	0	0	0	0	0	0
7/28/2024 20:47	46801	HEPB_T2	3	6	3	0.67	0.53	-0.14	0	0	0	0	0	0	0	0
7/28/2024 20:47	46803	HEPB_T2	0	2	2	0	0.15	0.15	0.79	0.69	0	0	0	0	0	0
7/28/2024 21:19	64801	MONE_T2	1	1	0	0.1	0.2	0.1	-0.11	-0.08	0	0	0	0	0	0
7/28/2024 21:21	64801	MONE_T2	1	1	0	0.1	0.2	0.1	-0.08	-0.14	0	0	0	0	0	0
7/28/2024 21:34	43104	SMIL_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	300	300	0
7/28/2024 21:34	43103	SMIL_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
7/28/2024 21:51	14702	TREX_T2	0	0	0	0	0	0	0.99	0.95	0	0	0	0	0	0
7/28/2024 21:52	57401	SPAN_T1	0	0	0	0	0	0	-0.67	-0.64	1	1	0	600	600	0
7/28/2024 21:56	14702	TREX_T2	0	0	0	0	0	0	2.97	2.86	0	0	0	0	0	0
7/28/2024 21:58	43103	SMIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/28/2024 21:58	43108	SMIL_T2	0	0	0	0	0	0	-1.07	-1.03	1	1	0	1200	1200	0
7/28/2024 21:59	14702	TREX_T2	0	0	0	0	0	0	0.99	0.95	0	0	0	0	0	0
7/28/2024 22:01	14204	EALL_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
7/28/2024 22:12	12606	MACA_T1	11	18	7	1.08	1.36	0.28	0.42	0.37	1	1	0	900	900	0
7/28/2024 22:13	44301	BEAV_T2	0	0	0	0	0	0	-1.27	-1.28	1	1	0	600	600	0
7/28/2024 22:15	25402	LAHA_T2	0	0	0	0	0	0	-0.74	-0.77	0	0	0	0	0	0
7/28/2024 22:17	14603	SWHI_T1	2	3	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/28/2024 22:17	14601	SWHI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/28/2024 22:19	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.18	2	2	0	1200	1200	0
7/28/2024 22:20	16402	MOPO_T1	1	1	0	0.7	0.1	-0.6	-0.02	-0.04	0	0	0	0	0	0
7/28/2024 22:20	10801	OHHI_T1	0	0	0	0	0	0	-1.47	-1.48	3	3	0	2100	2100	0
7/28/2024 22:21	12701	MACU_T1	0	0	0	0	0	0	-0.92	-0.97	1	1	0	1200	1200	0
7/28/2024 22:21	15603	NSTR_T2	0	0	0	0	0	0	-1.11	-1.1	0	0	0	0	0	0
7/28/2024 22:22	16102	BING_T2	0	1	1	0	0.1	0.1	-0.51	-0.51	1	1	0	1200	1200	0
7/28/2024 22:22	61702	ELIZ_T2	0	0	0	0	0	0	-1.46	-1.54	2	2	0	1500	1500	0
7/28/2024 22:23	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:23	10805	OHHI_T2	1	1	0	7.9	7.7	-0.2	-2.12	-1.46	2	2	0	1200	1200	0
7/28/2024 22:23	47401	PENS_T1	0	1	1	0	0.1	0.1	-0.01	-0.11	0	0	0	0	0	0
7/28/2024 22:23	13503	MCMI_T2	0	0	0	0	0	0	-0.73	-0.75	0	0	0	0	0	0
7/28/2024 22:24	60201	ATGL_T2	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
7/28/2024 22:25	24902	WHHA_T1	0	1	1	0	0.1	0.1	0.9	0.88	0	0	0	0	0	0
7/28/2024 22:25	14303	SUMN_T1	1	1	0	6.9	6.7	-0.2	0	0	0	0	0	0	0	0
7/28/2024 22:25	12701	MACU_T1	0	0	0	0	0	0	-0.92	-0.97	1	1	0	1200	1200	0
7/28/2024 22:25	14308	SUMN_T1	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
7/28/2024 22:25	14302	SUMN_T1	5	0	-5	0.28	0	-0.28	0	0	0	0	0	0	0	0
7/28/2024 22:25	14307	SUMN_T1	0	0	0	0	0	0	-1.91	-1.99	0	0	0	0	0	0
7/28/2024 22:25	13904	SEID_T1	32	6	-26	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/28/2024 22:25	14306	SUMN_T1	20	4	-16	0.93	0	-0.93	0	0	0	0	0	0	0	0
7/28/2024 22:25	29402	BELT_T1	1	1	0	7.9	8.3	0.4	0	0	0	0	0	0	0	0
7/28/2024 22:25	13905	SEID_T1	0	0	0	0	0	0	-0.62	-0.65	1	1	0	1200	1200	0
7/28/2024 22:26	43103	SMIL_T2	2	6	4	0.2	0.42	0.22	-3.79	-3.85	0	0	0	0	0	0
7/28/2024 22:26	14603	SWHI_T1	2	3	1	0.8	0.6	-0.2	-1.42	-1.45	2	2	0	1200	1200	0
7/28/2024 22:26	63804	HEMP_T1	1	1	0	6.4	6.1	-0.3	-0.26	-0.24	0	0	0	0	0	0
7/28/2024 22:26	10805	OHHI_T2	1	1	0	7.9	7.7	-0.2	-1.06	-0.73	1	1	0	600	600	0
7/28/2024 22:27	57401	SPAN_T1	0	0	0	0	0	0	-0.64	-0.78	1	1	0	600	600	0
7/28/2024 22:27	29402	BELT_T1	1	1	0	7.9	8.3	0.4	0	0	0	0	0	0	0	0
7/28/2024 22:27	52004	LING_T2	2	2	0	4.55	4.9	0.35	0	0	0	0	0	0	0	0
7/28/2024 22:27	52002	LING_T2	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
7/28/2024 22:27	60201	ATGL_T2	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
7/28/2024 22:27	22901	HARW_T1	0	5	5	0	0	0	-0.39	-0.63	1	1	0	1200	1200	0
7/28/2024 22:27	42701	AUGU_T1	1	0	-1	0.1	0	-0.1	0	0	2	2	0	1800	1800	0
7/28/2024 22:27	55101	WERT_T1	0	0	0	0	0	0	-1.9	-1.93	3	3	0	2400	2400	0
7/28/2024 22:27	56501	ROCK_T2	4	14	10	0.2	0.21	0.01	-2.1	-2.1	0	0	0	0	0	0
7/28/2024 22:28	64904	MILL_T1	0	0	0	0	0	0	-1.02	-1.1	0	0	0	0	0	0
7/28/2024 22:28	15202	SFAR_T1	0	0	0	0	0	0	-0.77	0.44	1	0	-1	1200	0	-1200
7/28/2024 22:28	56501	ROCK_T2	4	14	10	0.2	0.21	0.01	0	0	0	0	0	0	0	0
7/28/2024 22:28	46102	MACI_T1	0	0	0	0	0	0	0.79	0.89	0	0	0	0	0	0
7/28/2024 22:28	27502	WEIS_T2	0	0	0	0	0	0	-0.46	0.15	0	0	0	0	0	0
7/28/2024 22:28	56504	ROCK_T2	0	0	0	0	0	0	0.3	0.21	0	0	0	0	0	0
7/28/2024 22:29	52004	LING_T2	2	2	0	4.55	4.9	0.35	0.05	0.04	0	0	0	0	0	0
7/28/2024 22:29	56504	ROCK_T2	0	0	0	0	0	0	0.15	0.1	0	0	0	0	0	0
7/28/2024 22:29	67503	WEWI_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
7/28/2024 22:29	48302	ORWI_T2	2	2	0	0.85	1.1	0.25	-0.4	-0.43	0	0	0	0	0	0
7/28/2024 22:29	57401	SPAN_T1	0	0	0	0	0	0	-0.64	-0.78	1	1	0	600	600	0
7/28/2024 22:29	56501	ROCK_T2	4	14	10	0.2	0.21	0.01	0	0	0	0	0	0	0	0
7/28/2024 22:29	46206	DANV_T2	0	0	0	0	0	0	0.12	0.12	2	2	0	2100	2100	0
7/28/2024 22:29	52002	LING_T2	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
7/28/2024 22:29	64101	REFR_T1	0	0	0	0	0	0	0.38	0.34	0	0	0	0	0	0
7/28/2024 22:29	40603	PIGR_T1	0	0	0	0	0	0	0.54	0.5	0	0	0	0	0	0
7/28/2024 22:29	40101	HUNT_T2	6	3	-3	0.37	0	-0.37	-0.33	-0.38	0	0	0	0	0	0
7/28/2024 22:29	40602	PIGR_T1	0	0	0	0	0	0	-1.44	-1.52	1	1	0	600	600	0
7/28/2024 22:30	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:30	52004	LING_T2	2	2	0	4.6	4.9	0.3	0	0	0	0	0	0	0	0
7/28/2024 22:30	52002	LING_T2	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
7/28/2024 22:30	42201	SHEN_T2	0	0	0	0	0	0	0.31	0.29	1	1	0	600	600	0
7/28/2024 22:30	56501	ROCK_T2	5	62	57	0.3	0.2	-0.1	-2.1	-2.1	0	0	0	0	0	0
7/28/2024 22:30	47002	HUGH_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
7/28/2024 22:30	12006	HATF_T1	0	0	0	0	0	0	0.42	0.43	1	1	0	1200	1200	0
7/28/2024 22:30	66901	SHIL_T2	240	168	-72	0.38	0.2	-0.18	-1.21	-1.24	1	1	0	1200	1200	0
7/28/2024 22:30	61703	ELIZ_T1	0	0	0	0	0	0	-2.62	-2.62	2	2	0	2100	2100	0
7/28/2024 22:30	66902	SHIL_T2	61	1	-60	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/28/2024 22:30	29402	BELT_T1	1	1	0	8	8.5	0.5	0	0	0	0	0	0	0	0
7/28/2024 22:30	66903	SHIL_T2	10	0	-10	0.12	0	-0.12	0	0	0	0	0	0	0	0
7/28/2024 22:30	47001	HUGH_T2	3	3	0	7.1	8.1	1	-1.5	-1.55	1	1	0	900	900	0
7/28/2024 22:30	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/28/2024 22:30	61701	ELIZ_T1	1	1	0	3.7	4.1	0.4	0	0	0	0	0	0	0	0
7/28/2024 22:31	16402	MOPO_T1	1	1	0	0.1	0.4	0.3	-0.04	-0.05	0	0	0	0	0	0
7/28/2024 22:31	61301	EARL_T1	0	0	0	0	0	0	-0.64	-0.69	1	1	0	900	900	0
7/28/2024 22:31	45302	WBER_T2	0	0	0	0	0	0	1.36	1.26	0	0	0	0	0	0
7/28/2024 22:31	61701	ELIZ_T1	1	1	0	3.7	4.1	0.4	0	0	0	0	0	0	0	0
7/28/2024 22:31	11104	EGYP_T1	0	0	0	0	0	0	1.06	1.03	0	0	0	0	0	0
7/28/2024 22:31	65001	NEFF_T2	0	0	0	0	0	0	-0.91	-0.99	1	1	0	1200	1200	0
7/28/2024 22:31	65003	NEFF_T2	2	4	2	0.15	0.23	0.08	0	0	0	0	0	0	0	0
7/28/2024 22:31	11102	EGYP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/28/2024 22:31	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/28/2024 22:31	61703	ELIZ_T1	0	0	0	0	0	0	-2.62	-2.62	2	2	0	2100	2100	0
7/28/2024 22:31	12701	MACU_T1	0	0	0	0	0	0	-0.92	-0.97	1	1	0	1200	1200	0
7/28/2024 22:31	43101	SMIL_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
7/28/2024 22:31	57403	SPAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/28/2024 22:31	47401	PENS_T1	0	1	1	0	0.1	0.1	-0.01	-0.11	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/28/2024 22:31	45702	LIND_T2	0	0	0	0	0	0	-1.53	-1.57	0	0	0	0	0	0
7/28/2024 22:31	14603	SWHI_T1	3	2	-1	1.03	0	-1.03	-1.42	-1.45	2	2	0	1200	1200	0
7/28/2024 22:31	24902	WHHA_T1	1	1	0	0.1	0.6	0.5	0.9	0.88	0	0	0	0	0	0
7/28/2024 22:31	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/28/2024 22:31	58001	WCAR_T1	4	4	0	0.35	0.85	0.5	0	0	0	0	0	0	0	0
7/28/2024 22:31	43103	SMIL_T2	4	7	3	0.45	0.39	-0.06	0	0	0	0	0	0	0	0
7/28/2024 22:31	53601	DALM_T2	1	1	0	0.2	0.5	0.3	-0.08	-0.11	0	0	0	0	0	0
7/28/2024 22:31	45501	DERR_T2	0	0	0	0	0	0	-0.59	-0.62	2	2	0	1800	1800	0
7/28/2024 22:31	63501	HEID_TBK1-2	1	2	1	1.2	0.65	-0.55	0.01	-0.04	1	1	0	900	900	0
7/28/2024 22:31	56501	ROCK_T2	5	62	57	0.3	0.2	-0.1	-4.19	-4.21	0	0	0	0	0	0
7/28/2024 22:31	65603	OVIL_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
7/28/2024 22:31	59101	WALK_T2	0	0	0	0	0	0	0.58	1.18	2	1	-1	1200	600	-600
7/28/2024 22:31	58003	WCAR_T1	1	1	0	1.6	1.8	0.2	0.29	0.3	1	1	0	600	600	0
7/28/2024 22:31	57401	SPAN_T1	0	0	0	0	0	0	-0.64	-0.78	1	1	0	600	600	0
7/28/2024 22:31	60201	ATGL_T2	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
7/28/2024 22:31	53802	MBRG_T2	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
7/28/2024 22:31	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:31	53501	EVIL_T2	0	1	1	0	0.7	0.7	-0.45	-0.5	1	1	0	600	600	0
7/28/2024 22:31	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:31	29402	BELT_T1	1	1	0	8	8.5	0.5	0	0	0	0	0	0	0	0
7/28/2024 22:31	45602	WOOL_T1	0	0	0	0	0	0	0.36	0.89	0	0	0	0	0	0
7/28/2024 22:32	62606	ENGL_T1	7	4	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
7/28/2024 22:32	46203	DANV_T2	0	0	0	0	0	0	-1.71	-1.74	0	0	0	0	0	0
7/28/2024 22:32	44801	EDAN_T2	8	24	16	0.13	0.21	0.08	0	0	0	0	0	0	0	0
7/28/2024 22:32	24902	WHHA_T1	1	1	0	0.1	0.6	0.5	0.9	0.88	0	0	0	0	0	0
7/28/2024 22:32	12302	LANA_T2	0	0	0	0	0	0	-2.29	-2.26	3	3	0	2700	2700	0
7/28/2024 22:32	56504	ROCK_T2	0	0	0	0	0	0	0.15	0.1	0	0	0	0	0	0
7/28/2024 22:32	64101	REFR_T1	0	0	0	0	0	0	0.76	0.68	0	0	0	0	0	0
7/28/2024 22:32	51002	NHAR_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
7/28/2024 22:32	46001	BERW_T1	0	0	0	0	0	0	-0.27	-0.33	0	0	0	0	0	0
7/28/2024 22:32	57103	SPHI_T2	0	0	0	0	0	0	-0.49	-0.53	1	1	0	600	600	0
7/28/2024 22:32	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/28/2024 22:32	45901	AUBU_T1	0	0	0	0	0	0	1.19	1.17	0	0	0	0	0	0
7/28/2024 22:32	62607	ENGL_T1	0	0	0	0	0	0	-0.4	-0.39	1	1	0	300	300	0
7/28/2024 22:32	56501	ROCK_T2	5	62	57	0.3	0.2	-0.1	-6.29	-6.31	0	0	0	0	0	0
7/28/2024 22:32	43108	SMIL_T2	0	0	0	0	0	0	-1.09	-1.07	1	1	0	1200	1200	0
7/28/2024 22:32	57106	SPHI_T2	3	3	0	1	1.5	0.5	0	0	0	0	0	0	0	0
7/28/2024 22:32	21204	ECAR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/28/2024 22:32	42701	AUGU_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
7/28/2024 22:32	43103	SMIL_T2	4	7	3	0.45	0.39	-0.06	0	0	0	0	0	0	0	0
7/28/2024 22:32	55102	WERT_T2	0	0	0	0	0	0	-0.84	-0.87	1	1	0	600	600	0
7/28/2024 22:32	21206	ECAR_T2	2	1	-1	4.15	8.3	4.15	0.21	0.21	0	0	0	0	0	0
7/28/2024 22:32	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:32	44802	EDAN_T2	0	0	0	0	0	0	-1.43	-1.46	0	0	0	0	0	0
7/28/2024 22:32	45902	AUBU_T1	5	0	-5	0.12	0	-0.12	-0.91	-0.86	1	1	0	600	600	0
7/28/2024 22:32	12305	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:32	51003	NHAR_T1	0	0	0	0	0	0	-2.48	-2.43	1	1	0	1200	1200	0
7/28/2024 22:32	25402	LAHA_T2	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
7/28/2024 22:32	12701	MACU_T1	0	0	0	0	0	0	-0.92	-0.97	1	1	0	1200	1200	0
7/28/2024 22:32	51004	NHAR_T1	1	1	0	6.5	6.4	-0.1	-0.88	-0.89	0	0	0	0	0	0
7/28/2024 22:32	45802	HEGI_T2	5	7	2	0.26	0.27	0.01	0.27	0.2	0	0	0	0	0	0
7/28/2024 22:32	57101	SPHI_T2	6	6	0	0.63	1.07	0.44	0	0	0	0	0	0	0	0
7/28/2024 22:32	67602	WARW_T2	0	0	0	0	0	0	0.76	0.74	2	2	0	1500	1500	0
7/28/2024 22:32	67605	WARW_T1	3	3	0	0.7	0.87	0.17	-1.06	-1.06	0	0	0	0	0	0
7/28/2024 22:33	52403	GRPA_T2	2	2	0	0.4	0.3	-0.1	-0.36	-0.37	0	0	0	0	0	0
7/28/2024 22:33	55405	SHER_T1	0	6	6	0	0.3	0.3	-0.17	-0.17	0	0	0	0	0	0
7/28/2024 22:33	44203	POIN_T2	0	0	0	0	0	0	-0.95	-0.95	2	2	0	2100	2100	0
7/28/2024 22:33	61701	ELIZ_T1	1	1	0	3.7	4.1	0.4	0	0	0	0	0	0	0	0
7/28/2024 22:33	45802	HEGI_T2	5	7	2	0.26	0.27	0.01	0.27	0.2	0	0	0	0	0	0
7/28/2024 22:33	10801	CHHI_T1	0	0	0	0	0	0	-2.97	-2.97	6	6	0	4200	4200	0
7/28/2024 22:33	45902	AUBU_T1	5	0	-5	0.12	0	-0.12	-0.91	-0.86	1	1	0	600	600	0
7/28/2024 22:33	45601	WOOL_T1	0	0	0	0	0	0	-0.09	-0.08	1	1	0	1200	1200	0
7/28/2024 22:33	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/28/2024 22:33	42903	MIDD_T2	2	2	0	1.1	1.05	-0.05	0	0	0	0	0	0	0	0
7/28/2024 22:33	57403	SPAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/28/2024 22:33	67602	WARW_T2	0	0	0	0	0	0	1.52	1.48	4	4	0	3000	3000	0
7/28/2024 22:33	55001	NEWP_T1	0	0	0	0	0	0	-1.43	-1.56	2	2	0	1200	1200	0
7/28/2024 22:33	56504	ROCK_T2	0	0	0	0	0	0	0.15	0.1	0	0	0	0	0	0
7/28/2024 22:33	60803	BUCK_T1	13	13	0	0.2	0.48	0.28	0	0	0	0	0	0	0	0
7/28/2024 22:33	61703	ELIZ_T1	0	0	0	0	0	0	-2.62	-2.62	2	2	0	2100	2100	0
7/28/2024 22:33	42902	MIDD_T2	0	0	0	0	0	0	-1.02	-0.99	1	1	0	600	600	0
7/28/2024 22:33	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:33	20403	ASHF_T2	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
7/28/2024 22:33	64302	LINC_T2	0	0	0	0	0	0	1.09	1.08	0	0	0	0	0	0
7/28/2024 22:33	42801	SELI_T1	0	0	0	0	0	0	-1.14	-1.13	1	1	0	1200	1200	0
7/28/2024 22:33	45602	WOOL_T1	0	0	0	0	0	0	0.72	1.78	0	0	0	0	0	0
7/28/2024 22:33	64101	REFR_T1	0	0	0	0	0	0	0.76	0.68	0	0	0	0	0	0
7/28/2024 22:33	53501	EVIL_T2	0	1	1	0	0.7	0.7	-0.91	-1.01	2	2	0	1200	1200	0
7/28/2024 22:33	52402	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/28/2024 22:33	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:33	56501	ROCK_T2	5	62	57	0.3	0.2	-0.1	-2.1	-2.1	0	0	0	0	0	0
7/28/2024 22:33	46504	LOHA_T1	2	6	4	1.15	0.62	-0.53	0	0	0	0	0	0	0	0
7/28/2024 22:33	46203	DANV_T2	0	0	0	0	0	0	-1.71	-1.74	0	0	0	0	0	0
7/28/2024 22:33	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:33	61102	BERK_T5	0	0	0	0	0	0	0.7	0.13	2	2	0	600	600	0
7/28/2024 22:33	57401	SPAN_T1	0	0	0	0	0	0	-1.28	-1.56	2	2	0	1200	1200	0
7/28/2024 22:33	55002	NEWP_T1	6	6	0	0.53	1.3	0.77	0	0	0	0	0	0	0	0
7/28/2024 22:33	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:33	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:33	60201	ATGL_T2	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
7/28/2024 22:33	64303	LINC_T1	0	0	0	0	0	0	-0.15	-0.11	0	0	0	0	0	0
7/28/2024 22:33	46506	LOHA_T1	111	297	186	0.23	0.32	0.09	-1.87	-1.9	2	2	0	2100	2100	0
7/28/2024 22:33	60801	BUCK_T1	1	18	17	0.1	0.18	0.08	-0.02	-0.03	0	0	0	0	0	0
7/28/2024 22:33	42802	SELI_T1	0	0	0	0	0	0	-1.95	-1.98	0	0	0	0	0	0
7/28/2024 22:34	47401	PENS_T1	0	1	1	0	0.1	0.1	-0.01	-0.11	0	0	0	0	0	0
7/28/2024 22:34	45501	DERR_T2	0	0	0	0	0	0	-0.59	-0.62	2	2	0	1800	1800	0
7/28/2024 22:34	66202	SISP_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
7/28/2024 22:34	64101	REFR_T1	0	0	0	0	0	0	0.38	0.34	0	0	0	0	0	0
7/28/2024 22:34	52401	GRPA_T2	0	1	1	0	0.4	0.4	-0.32	-0.37	0	0	0	0	0	0
7/28/2024 22:34	52404	GRPA_T2	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
7/28/2024 22:34	56802	BENV_T2	0	0	0	0	0	0	-1.13	-1.16	0	0	0	0	0	0
7/28/2024 22:34	10805	CHHI_T2	1	1	0	7.7	8.2	0.5	-1.06	-0.73	1	1	0	600	600	0
7/28/2024 22:34	52402	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/28/2024 22:34	67505	WEWI_T1	0	0	0	0	0	0	0.33	0.29	1	1	0	900	900	0
7/28/2024 22:34	55101	WERT_T1	0	0	0	0	0	0	-1.9	-1.93	3	3	0	2400	2400	0
7/28/2024 22:34	58803	COCO_T1	1	1	0	0.8	1.1	0.3	-0.69	-0.68	0	0	0	0	0	0
7/28/2024 22:34	56501	ROCK_T2	5	62	57	0.3	0.2	-0.1	-4.19	-4.21	0	0	0	0	0	0
7/28/2024 22:34	53502	EVIL_T2	0	0	0	0	0	0	-0.3	-0.33	2	2	0	1200	1200	0
7/28/2024 22:34	14603	SWHI_T1	3	2	-1	1.03	0	-1.03	-1.42	-1.45	2	2	0	1200	1200	0
7/28/2024 22:34	44301	BEAV_T2	0	0	0	0	0	0	-1.28	-1.32	1	1	0	600	600	0
7/28/2024 22:34	53501	EVIL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/28/2024 22:34	61102	BERK_T5	0	0	0	0	0	0	0.35	0.06	1	1	0	300	300	0
7/28/2024 22:34	46101	MACI_T2	1	0	-1	9.7	0	-9.7	0.7	0.7	0	0	0	0	0	0
7/28/2024 22:34	52403	GRPA_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/28/2024 22:34	40101	HUNT_T2	3	0	-3	0.17	0	-0.17	-0.33	-0.38	0	0	0	0	0	0
7/28/2024 22:34	64303	LINC_T1	0	0	0	0	0	0	-0.15	-0.11	0	0	0	0	0	0
7/28/2024 22:34	45602	WOOL_T1	0	0	0	0	0	0	0.36	0.89	0	0	0	0	0	0
7/28/2024 22:34	11804	FRAN_T1	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
7/28/2024 22:34	46001	BERW_T1	0	0	0	0	0	0	-0.27	-0.33	0	0	0	0	0	0
7/28/2024 22:35	42903	MIDD_T2	2	2	0	1.1	1.05	-0.05	0	0	0	0	0	0	0	0
7/28/2024 22:35	61102	BERK_T5	0	0	0	0	0	0	0.7	0.13	2	2	0	600	600	0
7/28/2024 22:35	46102	MACI_T1	0	0	0	0	0	0	0.79	0.89	0	0	0	0	0	0
7/28/2024 22:35	47802	MOCA_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
7/28/2024 22:35	66701	STRA_T1	0	0	0	0	0	0	0.34	0.34	1	1	0	600	600	0
7/28/2024 22:35	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/28/2024 22:35	55102	WERT_T2	0	0	0	0	0	0	-0.84	-0.87	1	1	0	600	600	0
7/28/2024 22:35	47002	HUGH_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
7/28/2024 22:35	64101	REFR_T1	0	0	0	0	0	0	1.14	1.01	0	0	0	0	0	0
7/28/2024 22:35	45902	AUBU_T1	5	0	-5	0.12	0	-0.12	-0.91	-0.86	1	1	0	600	600	0
7/28/2024 22:35	64701	LITI_T1	0	0	0	0	0	0	-0.47	-0.45	1	0	-1	900	0	-900
7/28/2024 22:35	52002	LING_T2	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
7/28/2024 22:35	52403	GRPA_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/28/2024 22:35	66901	SHIL_T2	240	168	-72	0.38	0.2	-0.18	-1.21	-1.24	1	1	0	1200	1200	0
7/28/2024 22:35	67605	WARW_T1	3	3	0	0.7	0.87	0.17	-1.06	-1.06	0	0	0	0	0	0
7/28/2024 22:35	46504	LOHA_T1	2	6	4	1.15	0.62	-0.53	0	0	0	0	0	0	0	0
7/28/2024 22:35	53501	EVIL_T2	0	1	1	0	0.7	0.7	-0.45	-0.5	1	1	0	600	600	0
7/28/2024 22:35	66902	SHIL_T2	61	1	-60	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/28/2024 22:35	52004	LING_T2	2	2	0	4.6	4.9	0.3	0	0	0	0	0	0	0	0
7/28/2024 22:35	66703	STRA_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
7/28/2024 22:35	42802	SELI_T1	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
7/28/2024 22:35	45501	DERR_T2	0	0	0	0	0	0	-0.59	-0.62	2	2	0	1800	1800	0
7/28/2024 22:35	55101	WERT_T1	0	0	0	0	0	0	-1.9	-1.93	3	3	0	2400	2400	0
7/28/2024 22:35	47001	HUGH_T2	3	3	0	7.1	8.1	1	-1.5	-1.55	1	1	0	900	900	0
7/28/2024 22:35	60803	BUCK_T1	13	13	0	0.2	0.48	0.28	0	0	0	0	0	0	0	0
7/28/2024 22:35	43301	WATS_T2	1	1	0	0.3	0.6	0.3	-0.42	-0.42	1	1	0	900	900	0
7/28/2024 22:35	66903	SHIL_T2	10	0	-10	0.12	0	-0.12	0	0	0	0	0	0	0	0
7/28/2024 22:35	46506	LOHA_T1	111	297	186	0.23	0.32	0.09	-1.87	-1.9	2	2	0	2100	2100	0
7/28/2024 22:35	43103	SMIL_T2	4	7	3	0.45	0.39	-0.06	0	0	0	0	0	0	0	0
7/28/2024 22:35	42201	SHEN_T2	0	0	0	0	0	0	0.31	0.29	1	1	0	600	600	0
7/28/2024 22:35	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:35	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:35	43108	SMIL_T2	0	0	0	0	0	0	-1.09	-1.07	1	1	0	1200	1200	0
7/28/2024 22:35	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:35	43304	WATS_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/28/2024 22:35	52402	GRPA_T2	0	1	1	0	0.3	0.3	-0.6	-0.61	0	0	0	0	0	0
7/28/2024 22:35	45901	AUBU_T1	0	0	0	0	0	0	1.19	1.17	0	0	0	0	0	0
7/28/2024 22:35	60801	BUCK_T1	1	18	17	0.1	0.18	0.08	-0.02	-0.03	0	0	0	0	0	0
7/28/2024 22:36	65601	OVIL_T2	0	0	0	0	0	0	-0.6	-0.64	1	1	0	900	900	0
7/28/2024 22:36	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:36	14403	SSLA_T1	0	0	0	0	0	0	0.31	0.25	1	1	0	600	600	0
7/28/2024 22:36	66703	STRA_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
7/28/2024 22:36	52501	PROG_T1	13	1	-12	0.11	0.1	-0.01	-2.06	-1.43	2	0	-2	600	0	-600
7/28/2024 22:36	22901	HARW_T1	5	0	-5	0.76	0	-0.76	-0.39	-0.63	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/28/2024 22:36	57104	SPHI_T2	0	0	0	0	0	0	-1.29	-1.34	1	1	0	900	900	0
7/28/2024 22:36	52004	LING_T2	2	2	0	4.6	4.9	0.3	0	0	0	0	0	0	0	0
7/28/2024 22:36	64501	LAVI_T1	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
7/28/2024 22:36	52002	LING_T2	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
7/28/2024 22:36	42503	ALTA_T2	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
7/28/2024 22:36	42903	MIDD_T2	2	2	0	1.1	1.05	-0.05	0	0	0	0	0	0	0	0
7/28/2024 22:36	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/28/2024 22:36	61102	BERK_T5	0	0	0	0	0	0	0.06	0.87	1	1	0	300	300	0
7/28/2024 22:36	43104	SMIL_T2	0	0	0	0	0	0	-0.56	-0.58	1	1	0	300	300	0
7/28/2024 22:36	65206	PRIN_T4	1	2	1	1.2	6.5	5.3	0	0	0	0	0	0	0	0
7/28/2024 22:36	67703	WERN_T2	0	0	0	0	0	0	-0.02	-0.02	2	2	0	1800	1800	0
7/28/2024 22:36	56501	ROCK_T2	5	62	57	0.3	0.2	-0.1	-2.1	-2.1	0	0	0	0	0	0
7/28/2024 22:36	61304	EARL_T1	0	0	0	0	0	0	-0.46	-0.51	1	1	0	600	600	0
7/28/2024 22:36	57106	SPHI_T2	3	3	0	1	1.5	0.5	0	0	0	0	0	0	0	0
7/28/2024 22:36	63804	HEMP_T1	1	1	0	6.2	5.9	-0.3	-0.24	-0.29	0	0	0	0	0	0
7/28/2024 22:36	60101	COCA_T1	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
7/28/2024 22:36	54001	SDLE_T1	1	1	0	0.3	0.7	0.4	0	0	1	1	0	600	600	0
7/28/2024 22:36	67503	WEWI_T2	0	0	0	0	0	0	-0.38	-0.44	0	0	0	0	0	0
7/28/2024 22:36	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:36	40901	JESH_T1	1	1	0	0.1	0	-0.1	-0.17	-0.19	1	1	0	600	600	0
7/28/2024 22:36	57303	MOAL_T2	1	1	0	7.6	7.2	-0.4	0	0	0	0	0	0	0	0
7/28/2024 22:36	65604	QVIL_T2	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
7/28/2024 22:36	57101	SPHI_T2	6	6	0	0.63	1.07	0.44	0	0	0	0	0	0	0	0
7/28/2024 22:36	65207	PRIN_T4	0	1	1	0	0.1	0.1	0	0	2	2	0	1800	1800	0
7/28/2024 22:36	57401	SPAN_T1	0	0	0	0	0	0	-0.64	-0.78	1	1	0	600	600	0
7/28/2024 22:36	43103	SMIL_T2	4	7	3	0.45	0.39	-0.06	-1.93	-1.96	0	0	0	0	0	0
7/28/2024 22:36	55101	WERT_T1	0	0	0	0	0	0	-1.9	-1.93	3	3	0	2400	2400	0
7/28/2024 22:36	57304	MOAL_T2	0	0	0	0	0	0	-0.19	-0.33	0	0	0	0	0	0
7/28/2024 22:36	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:36	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:36	42902	MIDD_T2	0	0	0	0	0	0	-1.98	-2.11	2	2	0	1200	1200	0
7/28/2024 22:36	57403	SPAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/28/2024 22:36	64101	REFR_T1	0	0	0	0	0	0	0.34	0.3	0	0	0	0	0	0
7/28/2024 22:37	45902	AUBU_T1	5	0	-5	0.12	0	-0.12	-0.86	-0.86	1	1	0	600	600	0
7/28/2024 22:37	63305	GREE_T1	3	9	6	0.33	0.34	0.01	0	0	0	0	0	0	0	0
7/28/2024 22:37	12202	FOGE_T2	0	0	0	0	0	0	-1.3	-1.37	1	1	0	600	600	0
7/28/2024 22:37	51002	NHAR_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
7/28/2024 22:37	64802	MONE_T2	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
7/28/2024 22:37	56501	ROCK_T2	5	62	57	0.3	0.2	-0.1	-2.1	-2.13	0	0	0	0	0	0
7/28/2024 22:37	44202	POIN_T2	0	0	0	0	0	0	-0.65	-0.6	1	1	0	1200	1200	0
7/28/2024 22:37	46504	LOHA_T1	2	6	4	1.15	0.62	-0.53	0	0	0	0	0	0	0	0
7/28/2024 22:37	52403	GRPA_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/28/2024 22:37	51004	NHAR_T1	1	1	0	6.5	6.4	-0.1	-1.78	-1.83	0	0	0	0	0	0
7/28/2024 22:37	67605	WARW_T1	3	3	0	0.7	0.87	0.17	-1.06	-1.11	0	0	0	0	0	0
7/28/2024 22:37	57403	SPAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/28/2024 22:37	64801	MONE_T2	1	1	0	0.1	0.3	0.2	-0.32	-0.35	0	0	0	0	0	0
7/28/2024 22:37	64302	LINC_T2	0	0	0	0	0	0	1.08	1.04	0	0	0	0	0	0
7/28/2024 22:37	47101	MARL_T1	4	0	-4	0.15	0	-0.15	-1.46	-1.56	0	0	0	0	0	0
7/28/2024 22:37	51804	EBEN_T2	0	0	0	0	0	0	-1.16	-1.17	1	1	0	900	900	0
7/28/2024 22:37	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/28/2024 22:37	44203	POIN_T2	0	0	0	0	0	0	-0.95	-0.85	2	2	0	2100	2100	0
7/28/2024 22:37	58401	MORO_T1	0	0	0	0	0	0	-1.25	-1.31	2	2	0	1200	1200	0
7/28/2024 22:37	57702	PAXT_T1	0	0	0	0	0	0	-0.66	-0.7	0	0	0	0	0	0
7/28/2024 22:37	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/28/2024 22:37	47401	PENS_T1	0	1	1	0	0.1	0.1	-0.11	-0.12	0	0	0	0	0	0
7/28/2024 22:37	41902	REED_T1	1	0	-1	0.7	0	-0.7	0.23	0.17	1	1	0	900	900	0
7/28/2024 22:37	63304	GREE_T1	90	81	-9	0.17	0.16	-0.01	-2.67	-1.35	0	0	0	0	0	0
7/28/2024 22:37	64101	REFR_T1	0	0	0	0	0	0	0.34	0.3	0	0	0	0	0	0
7/28/2024 22:37	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:37	46506	LOHA_T1	111	297	186	0.23	0.32	0.09	-1.9	-1.94	2	2	0	2100	2100	0
7/28/2024 22:37	55101	WERT_T1	0	0	0	0	0	0	-1.93	-1.91	3	3	0	2400	2400	0
7/28/2024 22:37	14403	SSLA_T1	0	0	0	0	0	0	0.31	0.25	1	1	0	600	600	0
7/28/2024 22:37	67602	WARW_T2	0	0	0	0	0	0	0.74	0.71	2	2	0	1500	1500	0
7/28/2024 22:37	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:37	52404	GRPA_T2	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
7/28/2024 22:37	59101	WALK_T2	0	0	0	0	0	0	1.18	1.22	1	1	0	600	600	0
7/28/2024 22:37	43202	MVIL_T2	0	0	0	0	0	0	-0.65	-0.62	0	0	0	0	0	0
7/28/2024 22:37	46203	DANV_T2	0	0	0	0	0	0	-1.74	-1.76	0	0	0	0	0	0
7/28/2024 22:37	44801	EDAN_T2	8	24	16	0.13	0.21	0.08	-2.89	-2.99	0	0	0	0	0	0
7/28/2024 22:37	43104	SMIL_T2	0	0	0	0	0	0	-0.56	-0.58	1	1	0	300	300	0
7/28/2024 22:37	57401	SPAN_T1	0	0	0	0	0	0	-0.78	-0.97	1	1	0	600	600	0
7/28/2024 22:37	43103	SMIL_T2	4	7	3	0.45	0.39	-0.06	0	0	0	0	0	0	0	0
7/28/2024 22:37	52402	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/28/2024 22:37	45402	WBLO_T2	1	2	1	1.5	0.3	-1.2	-1.32	-1.33	1	1	0	900	900	0
7/28/2024 22:37	61102	BERK_T5	0	0	0	0	0	0	0.06	0.87	1	1	0	300	300	0
7/28/2024 22:38	67602	WARW_T2	0	0	0	0	0	0	0.74	0.71	2	2	0	1500	1500	0
7/28/2024 22:38	25603	ARRO_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
7/28/2024 22:38	58203	NEWV_T2	1	1	0	5.6	5	-0.6	-0.24	-0.25	0	0	0	0	0	0
7/28/2024 22:38	47001	HUGH_T2	3	3	0	7.1	8.1	1	-1.55	-1.59	1	1	0	900	900	0
7/28/2024 22:38	53601	DALM_T2	1	1	0	0.2	0.5	0.3	-0.21	-0.21	0	0	0	0	0	0
7/28/2024 22:38	58401	MORO_T1	0	0	0	0	0	0	-1.25	-1.31	2	2	0	1200	1200	0
7/28/2024 22:38	20603	GRWO_T2	23	43	20	0.26	0.25	-0.01	-0.42	-0.46	1	1	0	900	900	0
7/28/2024 22:38	63305	GREE_T1	3	9	6	0.33	0.34	0.01	0	0	0	0	0	0	0	0
7/28/2024 22:38	55002	NEWP_T1	6	6	0	0.53	1.3	0.77	0	0	0	0	0	0	0	0
7/28/2024 22:38	55001	NEWP_T1	0	0	0	0	0	0	-0.78	-0.78	1	1	0	600	600	0
7/28/2024 22:38	63304	GREE_T1	90	81	-9	0.17	0.16	-0.01	-2.67	-1.35	0	0	0	0	0	0
7/28/2024 22:38	47002	HUGH_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
7/28/2024 22:38	20601	GRWO_T2	10	43	33	0.16	0.2	0.04	0	0	0	0	0	0	0	0
7/28/2024 22:38	44801	EDAN_T2	8	24	16	0.13	0.21	0.08	-1.45	-1.5	0	0	0	0	0	0
7/28/2024 22:38	20403	ASHF_T2	0	0	0	0	0	0	1.46	1.31	0	0	0	0	0	0
7/28/2024 22:39	55101	WERT_T1	0	0	0	0	0	0	-1.93	-1.91	3	3	0	2400	2400	0
7/28/2024 22:39	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:39	42802	SELI_T1	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
7/28/2024 22:39	20403	ASHF_T2	0	0	0	0	0	0	0.49	0.44	0	0	0	0	0	0
7/28/2024 22:39	64204	KINZ_T1	2	1	-1	0.4	1.1	0.7	0	0	0	0	0	0	0	0
7/28/2024 22:39	14403	SSLA_T1	0	0	0	0	0	0	0.31	0.25	1	1	0	600	600	0
7/28/2024 22:39	48901	FOSP_T2	0	0	0	0	0	0	-0.45	-0.47	1	1	0	600	600	0
7/28/2024 22:39	43202	MVIL_T2	0	0	0	0	0	0	-0.65	-0.62	0	0	0	0	0	0
7/28/2024 22:39	52403	GRPA_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/28/2024 22:39	57403	SPAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/28/2024 22:39	64203	KINZ_T1	1	0	-1	0.1	0	-0.1	0.13	0.09	1	1	0	600	600	0
7/28/2024 22:39	46504	LOHA_T1	2	6	4	1.15	0.62	-0.53	0	0	0	0	0	0	0	0
7/28/2024 22:39	52004	LING_T2	2	2	0	4.6	4.9	0.3	0	0	0	0	0	0	0	0
7/28/2024 22:39	52402	GRPA_T2	0	1	1	0	0.3	0.3	-0.61	-0.56	0	0	0	0	0	0
7/28/2024 22:39	60101	COCA_T1	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
7/28/2024 22:39	46203	DANV_T2	0	0	0	0	0	0	-1.74	-1.76	0	0	0	0	0	0
7/28/2024 22:39	46506	LOHA_T1	111	297	186	0.23	0.32	0.09	-3.81	-3.87	4	4	0	4200	4200	0
7/28/2024 22:39	53501	EVIL_T2	0	1	1	0	0.7	0.7	-0.5	-0.49	1	1	0	600	600	0
7/28/2024 22:39	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/28/2024 22:39	46206	DANV_T2	0	0	0	0	0	0	0.12	0.11	2	2	0	2100	2100	0
7/28/2024 22:39	57401	SPAN_T1	0	0	0	0	0	0	-0.78	-0.97	1	1	0	600	600	0
7/28/2024 22:39	52002	LING_T2	0	0	0	0	0	0	-0.36	0.42	0	0	0	0	0	0
7/28/2024 22:39	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:39	53502	EVIL_T2	0	0	0	0	0	0	-0.33	-0.32	2	2	0	1200	1200	0
7/28/2024 22:39	64101	REFR_T1	0	0	0	0	0	0	0.34	0.3	0	0	0	0	0	0
7/28/2024 22:39	54701	NEBL_T1	1	1	0	0.7	1.1	0.4	0	0	1	1	0	600	600	0
7/28/2024 22:39	56501	ROCK_T2	5	62	57	0.3	0.2	-0.1	-2.1	-2.13	0	0	0	0	0	0
7/28/2024 22:39	64201	KINZ_T1	16	1	-15	0.27	1.4	1.13	0	0	0	0	0	0	0	0
7/28/2024 22:39	40101	HUNT_T2	3	0	-3	0.17	0	-0.17	-0.38	-0.39	0	0	0	0	0	0
7/28/2024 22:39	25503	MADI_T1	82	79	-3	0.25	0.24	-0.01	-0.72	-0.74	0	0	0	0	0	0
7/28/2024 22:40	52403	GRPA_T2	2	2	0	0.4	0.3	-0.1	-0.37	-0.41	0	0	0	0	0	0
7/28/2024 22:40	43103	SMIL_T2	4	7	3	0.45	0.39	-0.06	0	0	0	0	0	0	0	0
7/28/2024 22:40	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/28/2024 22:40	44201	POIN_T1	0	0	0	0	0	0	-1.58	-1.47	1	1	0	1200	1200	0
7/28/2024 22:40	41902	REED_T1	1	0	-1	0.7	0	-0.7	0.23	0.17	1	1	0	900	900	0
7/28/2024 22:40	47101	MARL_T1	4	0	-4	0.15	0	-0.15	-0.49	-0.52	0	0	0	0	0	0
7/28/2024 22:40	52402	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/28/2024 22:40	43104	SMIL_T2	0	0	0	0	0	0	-0.56	-0.58	1	1	0	300	300	0
7/28/2024 22:40	42902	MIDD_T2	0	0	0	0	0	0	-0.99	-1.06	1	1	0	600	600	0
7/28/2024 22:40	67602	WARW_T2	0	0	0	0	0	0	0.74	0.71	2	2	0	1500	1500	0
7/28/2024 22:40	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/28/2024 22:40	42903	MIDD_T2	2	2	0	1.1	1.05	-0.05	0	0	0	0	0	0	0	0
7/28/2024 22:40	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/28/2024 22:41	52004	LING_T2	2	2	0	4.6	4.9	0.3	0	0	0	0	0	0	0	0
7/28/2024 22:41	41902	REED_T1	1	0	-1	0.7	0	-0.7	0.23	0.17	1	1	0	900	900	0
7/28/2024 22:41	52001	LING_T2	0	0	0	0	0	0	-0.36	0.42	0	0	0	0	0	0
7/28/2024 22:41	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/28/2024 22:41	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/28/2024 22:41	52403	GRPA_T2	2	2	0	0.4	0.3	-0.1	-0.37	-0.41	0	0	0	0	0	0
7/28/2024 22:41	54001	SDLE_T1	1	1	0	0.3	0.7	0.4	0	0	1	1	0	600	600	0
7/28/2024 22:41	42802	SELI_T1	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
7/28/2024 22:41	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/28/2024 22:41	52402	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/28/2024 22:41	45302	WBER_T2	0	0	0	0	0	0	1.26	1.29	0	0	0	0	0	0
7/28/2024 22:42	42902	MIDD_T2	0	0	0	0	0	0	-0.99	-1.06	1	1	0	600	600	0
7/28/2024 22:42	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/2024 22:42	42903	MIDD_T2	2	2	0	1.1	1.05	-0.05	0	0	0	0	0	0	0	0
7/28/2024 22:43	44301	BEAV_T2	0	0	0	0	0	0	-1.32	-1.34	1	1	0	600	600	0
7/28/2024 22:45	44301	BEAV_T2	0	0	0	0	0	0	-1.32	-1.34	1	1	0	600	600	0
7/28/2024 22:46	67103	SPRI_T1	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
7/28/2024 22:52	41002	LAUR_T2	15	48	33	0.27	0.3	0.03	-0.15	-0.16	0	0	0	0	0	0
7/28/2024 22:52	41001	LAUR_T2	20	57	37	0.11	0.25	0.14	0	0	0	0	0	0	0	0
7/28/2024 23:46	67602	WARW_T2	0	0	0	0	0	0	0.63	0.58	2	2	0	1500	1500	0
7/29/2024 0:24	56501	ROCK_T2	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/29/2024 0:24	56504	ROCK_T2	0	0	0	0	0	0	-0.08	-0.05	0	0	0	0	0	0
7/29/2024 1:21	42802	SELI_T1	1	0	-1	1.2	0	-1.2	-1.19	-1.21	0	0	0	0	0	0
7/29/2024 1:30	65601	QVIL_T2	110	175	65	0.18	0.19	0.01	0	0	0	0	0	0	0	0
7/29/2024 1:30	65604	QVIL_T2	3	3	0	0.27	0.33	0.06	0	0	0	0	0	0	0	0
7/29/2024 1:30	65603	QVIL_T2	57	81	24	0.14	0.17	0.03	0.38	0.36	0	0	0	0	0	0
7/29/2024 1:30	65602	QVIL_T2	3	4	1	0.13	0.23	0.1	0	0	0	0	0	0	0	0
7/29/2024 7:14	63201	MGTN_T2	1	3	2	0.9	0.47	-0.43	0.21	0.3	1	1	0	600	600	0
7/29/2024 7:20	63201	MGTN_T2	3	3	0	0.67	0	-0.67	0.21	0.3	1	1	0	600	600	0
7/29/2024 7:22	65603	QVIL_T2	0	0	0	0	0	0	1.01	1.12	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/29/2024 7:23	16302	ALPA_T2	0	0	0	0	0	0	1.96	1.82	0	0	0	0	0	0
7/29/2024 7:24	20401	ASHF_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
7/29/2024 7:24	20403	ASHF_T2	0	0	0	0	0	0	0.73	0.78	0	0	0	0	0	0
7/29/2024 7:24	16301	ALPA_T1	0	0	0	0	0	0	-0.19	-0.15	0	0	0	0	0	0
7/29/2024 7:28	63305	GREE_T1	4	8	4	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
7/29/2024 7:28	63306	GREE_T1	0	0	0	0	0	0	-2.02	-2.02	1	1	0	900	900	0
7/29/2024 7:31	53803	MBRG_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
7/29/2024 7:38	14601	SWHI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/29/2024 7:40	60201	ATGL_T2	0	0	0	0	0	0	0.99	0.97	0	0	0	0	0	0
7/29/2024 7:43	52403	GRPA_T2	1	1	0	0.1	0	-0.1	-0.19	-0.32	0	0	0	0	0	0
7/29/2024 7:52	57403	SPAN_T1	170	170	0	0.43	0.49	0.06	0.11	0.13	0	0	0	0	0	0
7/29/2024 7:52	57401	SPAN_T1	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/29/2024 7:56	63305	GREE_T1	8	8	0	0.16	0.16	0	-1.92	-1.93	1	1	0	900	900	0
7/29/2024 7:57	12003	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 7:57	12006	HATF_T1	0	0	0	0	0	0	0.03	0.03	2	2	0	2400	2400	0
7/29/2024 7:59	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 7:59	63305	GREE_T1	8	8	0	0.16	0.16	0	-1.92	-1.93	1	1	0	900	900	0
7/29/2024 8:04	65004	NEFF_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
7/29/2024 8:05	66703	STRA_T1	1	0	-1	0.2	0	-0.2	0.23	0.23	0	0	0	0	0	0
7/29/2024 8:07	58003	WCAR_T1	1	2	1	0.9	1	0.1	0.2	0.25	1	1	0	600	600	0
7/29/2024 8:07	66703	STRA_T1	1	0	-1	0.2	0	-0.2	0.23	0.29	0	0	0	0	0	0
7/29/2024 8:07	20601	GRWO_T2	3	9	6	0.37	0.55	0.18	0	0	0	0	0	0	0	0
7/29/2024 8:07	58001	WCAR_T1	4	4	0	0.65	1.48	0.83	0	0	0	0	0	0	0	0
7/29/2024 8:07	20603	GRWO_T2	0	0	0	0	0	0	-0.48	-0.54	1	1	0	900	900	0
7/29/2024 8:09	14404	SSLA_T1	0	0	0	0	0	0	0.1	0.17	0	0	0	0	0	0
7/29/2024 8:10	51604	DUKE_T2	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
7/29/2024 8:11	24901	WHHA_T1	0	0	0	0	0	0	-0.26	-0.2	0	0	0	0	0	0
7/29/2024 8:11	24902	WHHA_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
7/29/2024 8:13	51604	DUKE_T2	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
7/29/2024 8:18	46102	MACI_T1	0	0	0	0	0	0	0.85	0.88	0	0	0	0	0	0
7/29/2024 8:20	47502	NECO_T1	0	0	0	0	0	0	1.17	1.08	0	0	0	0	0	0
7/29/2024 8:23	59101	WALK_T2	0	3	3	0	0.13	0.13	1.87	2.01	1	1	0	600	600	0
7/29/2024 8:24	59101	WALK_T2	0	3	3	0	0.13	0.13	1.87	2.01	1	1	0	600	600	0
7/29/2024 8:25	53601	DALM_T2	2	2	0	0.55	1.1	0.55	-0.23	-0.2	1	1	0	900	900	0
7/29/2024 8:26	62601	ENGL_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
7/29/2024 8:26	11103	EGYP_T1	0	0	0	0	0	0	0.97	1.06	0	0	0	0	0	0
7/29/2024 8:28	62604	ENGL_T1	0	0	0	0	0	0	-1.08	-1.13	1	1	0	600	600	0
7/29/2024 8:30	63804	HEMP_T1	1	1	0	7	7	0	-0.24	-0.22	0	0	0	0	0	0
7/29/2024 8:30	63802	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 8:31	42001	MNVL_T2	2	4	2	0.15	0.25	0.1	-1.79	-1.76	0	0	0	0	0	0
7/29/2024 8:31	42002	MNVL_T2	1	1	0	3.4	4	0.6	0	0	0	0	0	0	0	0
7/29/2024 8:34	57501	LAWN_T3	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
7/29/2024 8:35	15603	NSTR_T2	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
7/29/2024 8:35	15601	NSTR_T2	3	3	0	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
7/29/2024 8:36	67505	WEWI_T1	0	0	0	0	0	0	0.13	0.13	1	1	0	900	900	0
7/29/2024 8:47	58401	MORO_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/29/2024 8:47	58402	MORO_T1	0	0	0	0	0	0	0	-0.79	2	3	1	1500	2400	900
7/29/2024 8:47	64101	REFR_T1	0	0	0	0	0	0	0.05	0.07	0	0	0	0	0	0
7/29/2024 8:48	15702	TANN_T2	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
7/29/2024 8:48	15703	TANN_T2	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
7/29/2024 8:48	64101	REFR_T1	0	0	0	0	0	0	0.16	0.22	0	0	0	0	0	0
7/29/2024 8:49	64101	REFR_T1	0	0	0	0	0	0	0.05	0.07	0	0	0	0	0	0
7/29/2024 8:49	56501	ROCK_T2	3	3	0	0.47	0.35	-0.12	-2.18	-2.13	0	0	0	0	0	0
7/29/2024 8:50	47402	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/29/2024 8:50	47403	PENS_T1	0	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0
7/29/2024 8:50	56501	ROCK_T2	3	3	0	0.47	0.35	-0.12	-1.09	-1.06	0	0	0	0	0	0
7/29/2024 8:50	64101	REFR_T1	0	0	0	0	0	0	0.05	0.07	0	0	0	0	0	0
7/29/2024 8:50	47401	PENS_T1	2	6	4	0.15	0.18	0.03	0.1	0.16	0	0	0	0	0	0
7/29/2024 8:51	57403	SPAN_T1	32	14	-18	0.28	0.22	-0.06	0.14	0.18	0	0	0	0	0	0
7/29/2024 8:51	15703	TANN_T2	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
7/29/2024 8:51	56501	ROCK_T2	3	3	0	0.47	0.35	-0.12	-2.18	-2.13	0	0	0	0	0	0
7/29/2024 8:51	57401	SPAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/29/2024 8:51	15702	TANN_T2	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
7/29/2024 8:51	64101	REFR_T1	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
7/29/2024 8:52	23001	SAJO_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
7/29/2024 8:53	56501	ROCK_T2	3	3	0	0.47	0.35	-0.12	-1.06	-1.03	0	0	0	0	0	0
7/29/2024 8:54	55101	WERT_T1	0	0	0	0	0	0	-1.88	-3.58	6	8	2	4800	6600	1800
7/29/2024 8:59	45502	DERR_T2	1	3	2	0.3	0.7	0.4	0.31	0.38	1	1	0	300	300	0
7/29/2024 9:00	43202	MVIL_T2	24	28	4	0.18	0.19	0.01	-0.47	-0.49	0	0	0	0	0	0
7/29/2024 9:01	23203	HIRU_T2	2	11	9	0.1	0.15	0.05	0.17	0.18	0	0	0	0	0	0
7/29/2024 9:01	23201	HIRU_T2	16	39	23	0.13	0.14	0.01	0	0	0	0	0	0	0	0
7/29/2024 9:01	23202	HIRU_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
7/29/2024 9:02	41902	REED_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
7/29/2024 9:02	41903	REED_T1	0	0	0	0	0	0	0.25	0.26	1	1	0	1200	1200	0
7/29/2024 9:03	58401	MORO_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
7/29/2024 9:03	58402	MORO_T1	0	0	0	0	0	0	-0.79	-0.57	3	3	0	2400	2400	0
7/29/2024 9:07	46504	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/29/2024 9:07	46501	LOHA_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
7/29/2024 9:07	46506	LOHA_T1	547	582	35	0.49	0.6	0.11	-2	-2	2	1	-1	2100	1200	-900
7/29/2024 9:09	45502	DERR_T2	2	3	1	0.7	0.57	-0.13	0	0	0	0	0	0	0	0
7/29/2024 9:09	40502	CRES_T2	10	0	-10	0.29	0	-0.29	-0.71	-0.67	0	0	0	0	0	0
7/29/2024 9:09	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 9:09	45501	DERR_T2	0	0	0	0	0	0	0.73	0.83	2	2	0	1800	1800	0
7/29/2024 9:11	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 9:11	40502	CRES_T2	10	0	-10	0.29	0	-0.29	-0.71	-0.67	0	0	0	0	0	0
7/29/2024 9:12	45502	DERR_T2	2	3	1	0.7	0.57	-0.13	0	0	0	0	0	0	0	0
7/29/2024 9:12	45501	DERR_T2	0	0	0	0	0	0	0.73	0.83	2	2	0	1800	1800	0
7/29/2024 9:13	40502	CRES_T2	10	0	-10	0.29	0	-0.29	-1.42	-1.34	0	0	0	0	0	0
7/29/2024 9:13	61801	EELI_T2	0	0	0	0	0	0	0.23	0.29	0	0	0	0	0	0
7/29/2024 9:13	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 9:14	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 9:14	40502	CRES_T2	10	0	-10	0.29	0	-0.29	0	0	0	0	0	0	0	0
7/29/2024 9:14	23403	HONE_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
7/29/2024 9:15	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.29	-0.24	0	0	0	0	0	0
7/29/2024 9:16	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 9:17	29402	BELT_T1	1	1	0	8	7.6	-0.4	0	0	0	0	0	0	0	0
7/29/2024 9:17	29401	BELT_T1	71	0	-71	0.28	0	-0.28	0	0	1	1	0	900	900	0
7/29/2024 9:18	52004	LING_T2	2	2	0	6	5.4	-0.6	0.5	0.5	0	0	0	0	0	0
7/29/2024 9:21	58001	WCAR_T1	4	4	0	1.38	1.45	0.07	0	0	0	0	0	0	0	0
7/29/2024 9:21	58003	WCAR_T1	1	4	3	1.8	0.5	-1.3	0.29	0.38	1	1	0	600	600	0
7/29/2024 9:24	58001	WCAR_T1	4	4	0	1.38	1.45	0.07	0	0	0	0	0	0	0	0
7/29/2024 9:24	58003	WCAR_T1	1	4	3	1.8	0.5	-1.3	0.38	0.99	1	0	-1	600	0	-600
7/29/2024 9:28	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.24	-0.24	0	0	0	0	0	0
7/29/2024 9:30	40101	HUNT_T2	0	1	1	0	0	0	-0.24	-0.24	0	0	0	0	0	0
7/29/2024 9:32	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 9:33	46101	MACI_T2	0	0	0	0	0	0	-0.71	-0.24	2	2	0	2400	2400	0
7/29/2024 9:33	47401	PENS_T1	3	2	-1	0.43	0.45	0.02	0.07	0.08	0	0	0	0	0	0
7/29/2024 9:33	47402	PENS_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/29/2024 9:33	41902	REED_T1	1	2	1	0.8	0.5	-0.3	1.19	1.2	0	0	0	0	0	0
7/29/2024 9:33	50701	SMEC_T1	1	1	0	0.1	0.3	0.2	-0.24	-0.02	0	0	0	0	0	0
7/29/2024 9:35	57401	SPAN_T1	0	0	0	0	0	0	-0.61	-0.53	1	1	0	600	600	0
7/29/2024 9:36	47401	PENS_T1	3	2	-1	0.43	0.45	0.02	0.08	0.14	0	0	0	0	0	0
7/29/2024 9:36	57403	SPAN_T1	0	0	0	0	0	0	-0.61	-0.53	1	1	0	600	600	0
7/29/2024 9:36	47402	PENS_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/29/2024 9:37	29402	BELT_T1	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
7/29/2024 9:37	41902	REED_T1	1	2	1	0.8	0.5	-0.3	1.2	1.28	0	0	0	0	0	0
7/29/2024 9:37	57401	SPAN_T1	0	0	0	0	0	0	-0.53	-0.48	1	1	0	600	600	0
7/29/2024 9:38	57401	SPAN_T1	0	0	0	0	0	0	-0.53	-0.48	1	1	0	600	600	0
7/29/2024 9:39	64101	REFR_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
7/29/2024 9:39	57401	SPAN_T1	0	0	0	0	0	0	-1.05	-0.96	2	2	0	1200	1200	0
7/29/2024 9:39	55105	WERT_T1	0	0	0	0	0	0	0.1	0.18	1	1	0	900	900	0
7/29/2024 9:44	13501	MCMI_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
7/29/2024 9:44	45702	LIND_T2	8	1	-7	0.36	0.3	-0.06	-1.49	-1.52	0	0	0	0	0	0
7/29/2024 9:46	64902	MILL_T2	0	0	0	0	0	0	-0.85	-0.88	1	1	0	900	900	0
7/29/2024 9:48	64802	MONE_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
7/29/2024 9:58	64302	LINC_T2	1	2	1	0.1	0	-0.1	1.43	1.48	0	0	0	0	0	0
7/29/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
7/29/2024 10:00	66901	SHIL_T2	0	0	0	0	0	0	0.24	0.29	0	0	0	0	0	0
7/29/2024 10:00	47401	PENS_T1	1	4	3	0.3	0.53	0.23	0.14	0.13	0	0	0	0	0	0
7/29/2024 10:00	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/29/2024 10:00	57401	SPAN_T1	0	0	0	0	0	0	-0.48	-0.46	1	1	0	600	600	0
7/29/2024 10:00	65603	QVIL_T2	0	0	0	0	0	0	1.1	1.14	0	0	0	0	0	0
7/29/2024 10:00	40505	CRES_T1	3	3	0	3.73	3.67	-0.06	0.55	0.57	0	0	0	0	0	0
7/29/2024 10:00	67502	WEWI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/29/2024 10:00	47402	PENS_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/29/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.27	0.26	1	1	0	600	600	0
7/29/2024 10:00	40602	PIGR_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/29/2024 10:00	29402	BELT_T1	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
7/29/2024 10:00	41902	REED_T1	2	15	13	0.3	0.2	-0.1	1.28	1.33	0	0	0	0	0	0
7/29/2024 10:00	47403	PENS_T1	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
7/29/2024 10:00	40603	PIGR_T1	0	1	1	0	0.1	0.1	0.51	0.46	0	0	0	0	0	0
7/29/2024 10:00	48302	ORWI_T2	2	2	0	0.15	0.25	0.1	-0.4	-0.38	0	0	0	0	0	0
7/29/2024 10:00	45802	HEGI_T2	2	10	8	0.2	0.39	0.19	0.48	1.1	4	4	0	2400	2400	0
7/29/2024 10:01	64203	KINZ_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/29/2024 10:01	64204	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
7/29/2024 10:01	64201	KINZ_T1	0	2	2	0	0.9	0.9	0.3	0.22	4	4	0	2100	2100	0
7/29/2024 10:06	65904	SAKR_T2	0	0	0	0	0	0	-1.35	-1.37	3	3	0	1500	1500	0
7/29/2024 10:06	42801	SELI_T1	0	0	0	0	0	0	-0.7	-0.42	1	1	0	1200	1200	0
7/29/2024 10:06	65901	SAKR_T2	1	1	0	6.8	7.7	0.9	0	0	0	0	0	0	0	0
7/29/2024 10:07	47402	PENS_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/29/2024 10:07	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 10:07	47401	PENS_T1	1	4	3	0.3	0.53	0.23	0.13	0.29	0	0	0	0	0	0
7/29/2024 10:07	47403	PENS_T1	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
7/29/2024 10:08	57401	SPAN_T1	0	0	0	0	0	0	-0.46	-0.45	1	1	0	600	600	0
7/29/2024 10:08	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/29/2024 10:08	59101	WALK_T2	0	1	1	0	0	0	2.23	1.54	1	2	1	600	1200	600
7/29/2024 10:08	41902	REED_T1	2	15	13	0.3	0.2	-0.1	1.33	1.28	0	0	0	0	0	0
7/29/2024 10:09	29402	BELT_T1	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
7/29/2024 10:09	47403	PENS_T1	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
7/29/2024 10:09	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/29/2024 10:09	46503	LOHA_T1	0	0	0	0	0	0	-0.56	-0.55	0	0	0	0	0	0
7/29/2024 10:09	46501	LOHA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/29/2024 10:09	47402	PENS_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/29/2024 10:09	57401	SPAN_T1	0	0	0	0	0	0	-0.92	-0.89	2	2	0	1200	1200	0
7/29/2024 10:09	59101	WALK_T2	0	1	1	0	0	0	2.23	1.54	1	2	1	600	1200	600
7/29/2024 10:09	46506	LOHA_T1	41	13	-28	0.14	0.28	0.14	0	0	0	0	0	0	0	0
7/29/2024 10:09	14404	SSLA_T1	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
7/29/2024 10:09	47401	PENS_T1	1	4	3	0.3	0.53	0.23	0.13	0.29	0	0	0	0	0	0
7/29/2024 10:09	55101	WERT_T1	0	0	0	0	0	0	-1.43	-1.42	4	4	0	3300	3300	0
7/29/2024 10:10	45502	DERR_T2	3	3	0	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
7/29/2024 10:10	57403	SPAN_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
7/29/2024 10:10	55105	WERT_T1	0	0	0	0	0	0	0.15	0.15	1	1	0	900	900	0
7/29/2024 10:10	53601	DALM_T2	1	1	0	0.3	0.5	0.2	-0.31	-0.7	1	2	1	900	1500	600
7/29/2024 10:10	45501	DERR_T2	0	0	0	0	0	0	0.94	1.02	2	2	0	1800	1800	0
7/29/2024 10:10	55101	WERT_T1	0	0	0	0	0	0	-1.43	-1.42	4	4	0	3300	3300	0
7/29/2024 10:11	24902	WHHA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/29/2024 10:11	44801	EDAN_T2	50	29	-21	0.37	0.25	-0.12	-1.26	-1.29	0	0	0	0	0	0
7/29/2024 10:11	53502	EVIL_T2	1	9	8	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
7/29/2024 10:11	24901	WHHA_T1	0	2	2	0	0	0	-0.17	-0.21	0	0	0	0	0	0
7/29/2024 10:11	53501	EVIL_T2	1	0	-1	6	0	-6	-0.16	-0.07	2	2	0	1200	1200	0
7/29/2024 10:12	53501	EVIL_T2	1	0	-1	6	0	-6	-0.16	-0.07	2	2	0	1200	1200	0
7/29/2024 10:12	10801	CHHI_T1	0	1	1	0	0	0	-0.35	-0.35	1	1	0	900	900	0
7/29/2024 10:12	53502	EVIL_T2	1	9	8	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
7/29/2024 10:13	45502	DERR_T2	3	3	0	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
7/29/2024 10:13	45501	DERR_T2	0	0	0	0	0	0	0.94	1.02	2	2	0	1800	1800	0
7/29/2024 10:14	44801	EDAN_T2	50	29	-21	0.37	0.25	-0.12	-1.26	-1.29	0	0	0	0	0	0
7/29/2024 10:14	53501	EVIL_T2	1	0	-1	6	0	-6	-0.16	-0.07	2	2	0	1200	1200	0
7/29/2024 10:14	53502	EVIL_T2	1	9	8	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
7/29/2024 10:15	64201	KINZ_T1	1	2	1	0.9	0	-0.9	0.22	0.25	4	4	0	2100	2100	0
7/29/2024 10:15	64204	KINZ_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/29/2024 10:15	46101	MACL_T2	0	0	0	0	0	0	-0.8	-0.82	2	2	0	2400	2400	0
7/29/2024 10:15	52403	GRPA_T2	5	11	6	0.38	0.72	0.34	-0.01	-0.03	0	0	0	0	0	0
7/29/2024 10:15	52402	GRPA_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/29/2024 10:15	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/29/2024 10:15	53502	EVIL_T2	4	10	6	0.53	0.66	0.13	0	0	0	0	0	0	0	0
7/29/2024 10:15	53501	EVIL_T2	0	2	2	0	0.1	0.1	-0.16	-0.07	2	2	0	1200	1200	0
7/29/2024 10:15	64203	KINZ_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
7/29/2024 10:16	40101	HUNT_T2	3	4	1	0.27	0.2	-0.07	-0.21	-0.2	0	0	0	0	0	0
7/29/2024 10:17	64203	KINZ_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
7/29/2024 10:17	46501	LOHA_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/29/2024 10:17	46506	LOHA_T1	4	15	11	0.15	0.27	0.12	-1.92	-1.89	2	2	0	2100	2100	0
7/29/2024 10:17	64204	KINZ_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/29/2024 10:17	64201	KINZ_T1	1	2	1	0.9	0	-0.9	0.22	0.25	4	4	0	2100	2100	0
7/29/2024 10:18	46506	LOHA_T1	4	15	11	0.15	0.27	0.12	-3.84	-3.78	4	4	0	4200	4200	0
7/29/2024 10:18	40101	HUNT_T2	3	4	1	0.27	0.2	-0.07	-0.21	-0.2	0	0	0	0	0	0
7/29/2024 10:18	46501	LOHA_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/29/2024 10:19	46501	LOHA_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/29/2024 10:19	46506	LOHA_T1	4	15	11	0.15	0.27	0.12	-1.92	-1.89	2	2	0	2100	2100	0
7/29/2024 10:20	46501	LOHA_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/29/2024 10:20	46506	LOHA_T1	4	15	11	0.15	0.27	0.12	-1.92	-1.89	2	2	0	2100	2100	0
7/29/2024 10:20	16402	MOPO_T1	0	0	0	0	0	0	0.22	0.64	0	0	0	0	0	0
7/29/2024 10:25	20403	ASHF_T2	0	0	0	0	0	0	1.71	1.85	0	0	0	0	0	0
7/29/2024 10:25	20401	ASHF_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
7/29/2024 10:27	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 10:28	45502	DERR_T2	3	3	0	0.73	0.27	-0.46	0.38	0.37	1	1	0	300	300	0
7/29/2024 10:28	45501	DERR_T2	0	0	0	0	0	0	1.02	1.2	2	2	0	1800	1800	0
7/29/2024 10:29	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 10:29	47001	HUGH_T2	3	3	0	7.27	7.3	0.03	-0.78	-0.71	1	1	0	900	900	0
7/29/2024 10:30	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 10:31	52404	GRPA_T2	0	0	0	0	0	0	0.85	0.95	0	0	0	0	0	0
7/29/2024 10:31	52401	GRPA_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/29/2024 10:31	21204	ECAR_T2	1	1	0	0	0	0	-0.43	-0.39	0	0	0	0	0	0
7/29/2024 10:31	21206	ECAR_T2	1	1	0	7.1	7.2	0.1	0	0	0	0	0	0	0	0
7/29/2024 10:31	52402	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/29/2024 10:31	52403	GRPA_T2	6	13	7	0.68	0.66	-0.02	0	0	0	0	0	0	0	0
7/29/2024 10:33	64101	REFR_T1	0	0	0	0	0	0	0.51	-0.58	0	0	0	0	0	0
7/29/2024 10:34	47001	HUGH_T2	3	3	0	7.3	7.07	-0.23	-0.78	-0.71	1	1	0	900	900	0
7/29/2024 10:34	52401	GRPA_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/29/2024 10:34	52404	GRPA_T2	0	0	0	0	0	0	0.85	0.95	0	0	0	0	0	0
7/29/2024 10:34	52402	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/29/2024 10:34	52403	GRPA_T2	6	13	7	0.68	0.66	-0.02	0	0	0	0	0	0	0	0
7/29/2024 10:34	64101	REFR_T1	0	0	0	0	0	0	0.51	-0.58	0	0	0	0	0	0
7/29/2024 10:34	60502	NMAN_T2	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
7/29/2024 10:35	42201	SHEN_T2	0	0	0	0	0	0	0.26	0.3	1	1	0	600	600	0
7/29/2024 10:35	64101	REFR_T1	0	0	0	0	0	0	0.51	-0.58	0	0	0	0	0	0
7/29/2024 10:36	24902	WHHA_T1	1	1	0	0.2	0.1	-0.1	0.87	0.89	0	0	0	0	0	0
7/29/2024 10:36	24901	WHHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/29/2024 10:37	64101	REFR_T1	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
7/29/2024 10:38	10801	CHHI_T1	1	2	1	0.1	0.1	0	-0.78	-0.71	2	2	0	1500	1500	0
7/29/2024 10:38	24902	WHHA_T1	1	1	0	0.2	0.1	-0.1	0.89	0.95	0	0	0	0	0	0
7/29/2024 10:38	24901	WHHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/29/2024 10:38	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 10:41	58003	WCAR_T1	1	1	0	0.5	0.5	0	1.14	1.05	0	0	0	0	0	0
7/29/2024 10:41	58001	WCAR_T1	3	4	1	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
7/29/2024 10:42	11103	EGYP_T1	0	0	0	0	0	0	1.2	1.25	0	0	0	0	0	0
7/29/2024 10:42	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 10:43	53501	EVIL_T2	0	4	4	0	0.37	0.37	0	0	0	0	0	0	0	0
7/29/2024 10:43	53601	DALM_T2	1	1	0	0.5	0.9	0.4	-0.7	-0.81	2	2	0	1500	1500	0
7/29/2024 10:43	53502	EVIL_T2	9	9	0	0.62	0.52	-0.1	0.46	0.51	2	2	0	1200	1200	0
7/29/2024 10:44	53502	EVIL_T2	9	9	0	0.62	0.52	-0.1	0.91	1.02	4	4	0	2400	2400	0
7/29/2024 10:44	53501	EVIL_T2	0	4	4	0	0.37	0.37	0	0	0	0	0	0	0	0
7/29/2024 10:45	52401	GRPA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/29/2024 10:45	52403	GRPA_T2	11	12	1	0.64	0.73	0.09	-0.05	-0.03	0	0	0	0	0	0
7/29/2024 10:45	52402	GRPA_T2	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/29/2024 10:46	52402	GRPA_T2	1	2	1	0.3	0	-0.3	-0.44	-0.4	0	0	0	0	0	0
7/29/2024 10:46	52403	GRPA_T2	11	12	1	0.64	0.73	0.09	0	0	0	0	0	0	0	0
7/29/2024 10:46	52401	GRPA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/29/2024 10:53	57401	SPAN_T1	0	0	0	0	0	0	-0.3	-0.33	1	1	0	600	600	0
7/29/2024 10:54	57401	SPAN_T1	0	0	0	0	0	0	-0.3	-0.33	1	1	0	600	600	0
7/29/2024 10:58	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 10:59	64305	LINC_T1	0	0	0	0	0	0	0.46	0.6	0	0	0	0	0	0
7/29/2024 10:59	53502	EVIL_T2	9	5	-4	0.74	0.55	-0.19	0	0	0	0	0	0	0	0
7/29/2024 10:59	53501	EVIL_T2	2	2	0	0.1	0.5	0.4	-0.3	-0.34	3	3	0	1400	1400	0
7/29/2024 11:01	43202	MVIL_T2	1	1	0	1	0.2	-0.8	-0.46	-0.42	0	0	0	0	0	0
7/29/2024 11:02	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 11:02	52004	LING_T2	2	3	1	4.65	3.33	-1.32	0	0	0	0	0	0	0	0
7/29/2024 11:02	65001	NEFF_T2	0	0	0	0	0	0	0.12	0.38	1	1	0	1200	1200	0
7/29/2024 11:02	15603	NSTR_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
7/29/2024 11:02	52002	LING_T2	0	0	0	0	0	0	1.62	1.83	0	0	0	0	0	0
7/29/2024 11:02	15601	NSTR_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
7/29/2024 11:03	65205	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/29/2024 11:04	56501	ROCK_T2	1	1	0	0.6	0.7	0.1	-0.76	-0.73	0	0	0	0	0	0
7/29/2024 11:04	25503	MADI_T1	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
7/29/2024 11:04	25501	MADI_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/29/2024 11:05	56501	ROCK_T2	1	1	0	0.6	0.7	0.1	-1.52	-1.46	0	0	0	0	0	0
7/29/2024 11:05	42802	SELI_T1	0	0	0	0	0	0	-0.39	-0.23	1	1	0	900	900	0
7/29/2024 11:06	29402	BELT_T1	1	1	0	7.2	7.4	0.2	0	0	0	0	0	0	0	0
7/29/2024 11:06	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/29/2024 11:06	42802	SELI_T1	0	0	0	0	0	0	-0.23	-0.17	1	1	0	900	900	0
7/29/2024 11:07	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/29/2024 11:07	42802	SELI_T1	0	0	0	0	0	0	-0.23	-0.17	1	1	0	900	900	0
7/29/2024 11:07	16102	BING_T2	0	1	1	0	0.3	0.3	-0.36	-0.18	1	1	0	1200	1200	0
7/29/2024 11:07	16103	BING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/29/2024 11:07	29402	BELT_T1	1	1	0	7.2	7.4	0.2	0	0	0	0	0	0	0	0
7/29/2024 11:08	42802	SELI_T1	0	0	0	0	0	0	-0.47	-0.34	2	2	0	1800	1800	0
7/29/2024 11:08	67804	WLAN_T1	1	3	2	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/29/2024 11:08	67803	WLAN_T1	0	3	3	0	0.23	0.23	-1.12	-1.12	0	0	0	0	0	0
7/29/2024 11:09	42802	SELI_T1	0	0	0	0	0	0	-0.23	-0.17	1	1	0	900	900	0
7/29/2024 11:09	67603	WARW_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
7/29/2024 11:09	67605	WARW_T1	1	1	0	1	0.8	-0.2	-1.28	-1.68	0	0	0	0	0	0
7/29/2024 11:11	67605	WARW_T1	1	1	0	1	0.8	-0.2	-0.64	-0.84	0	0	0	0	0	0
7/29/2024 11:13	67605	WARW_T1	1	1	0	1	0.8	-0.2	-0.64	-0.84	0	0	0	0	0	0
7/29/2024 11:15	67605	WARW_T1	1	1	0	0.8	0.7	-0.1	-0.64	-0.84	0	0	0	0	0	0
7/29/2024 11:15	42302	MOWR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 11:15	42301	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 11:15	52004	LING_T2	3	3	0	3.3	3.33	0.03	0	0	0	0	0	0	0	0
7/29/2024 11:15	52002	LING_T2	0	4	4	0	0	0	0.61	0.64	0	0	0	0	0	0
7/29/2024 11:16	52004	LING_T2	3	3	0	3.3	3.33	0.03	0	0	0	0	0	0	0	0
7/29/2024 11:16	52002	LING_T2	0	4	4	0	0	0	0.61	0.64	0	0	0	0	0	0
7/29/2024 11:17	52004	LING_T2	3	3	0	3.3	3.33	0.03	0	0	0	0	0	0	0	0
7/29/2024 11:17	64904	MILL_T1	0	0	0	0	0	0	0.21	0.27	0	0	0	0	0	0
7/29/2024 11:17	42302	MOWR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 11:17	42301	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 11:17	52002	LING_T2	0	4	4	0	0	0	0.61	0.64	0	0	0	0	0	0
7/29/2024 11:18	23001	SAJO_T1	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
7/29/2024 11:18	52002	LING_T2	0	4	4	0	0	0	1.22	1.28	0	0	0	0	0	0
7/29/2024 11:18	52004	LING_T2	3	3	0	3.3	3.33	0.03	0	0	0	0	0	0	0	0
7/29/2024 11:19	23001	SAJO_T1	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
7/29/2024 11:24	24902	WHHA_T1	1	1	0	0.5	0.5	0	0.93	1	0	0	0	0	0	0
7/29/2024 11:25	48902	FOSP_T2	0	0	0	0	0	0	0.79	0.87	0	1	1	0	1200	1200
7/29/2024 11:25	24902	WHHA_T1	1	1	0	0.5	0.5	0	0.93	1	0	0	0	0	0	0
7/29/2024 11:26	61102	BERK_T5	0	0	0	0	0	0	0.59	0.55	1	1	0	300	300	0
7/29/2024 11:29	40101	HUNT_T2	4	66	62	1.13	0.47	-0.66	-0.12	-0.1	0	0	0	0	0	0
7/29/2024 11:32	42301	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 11:32	42302	MOWR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 11:33	64802	MONE_T2	1	0	-1	0.3	0	-0.3	0.49	0.4	0	0	0	0	0	0
7/29/2024 11:35	58402	MORO_T1	0	0	0	0	0	0	-0.49	-0.45	3	3	0	2400	2400	0
7/29/2024 11:35	58401	MORO_T1	0	0	0	0	0	0	-3.71	-3.57	6	6	0	4200	4200	0
7/29/2024 11:39	60101	COCA_T1	0	0	0	0	0	0	0.81	0.85	0	0	0	0	0	0
7/29/2024 11:40	60201	ATGL_T2	0	0	0	0	0	0	1.13	1.15	1	1	0	300	300	0
7/29/2024 11:41	41602	CLEV_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
7/29/2024 11:46	15604	NSTR_T1	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
7/29/2024 11:47	64203	KINZ_T1	2	2	0	1.4	1.4	0	0.35	0.42	3	3	0	2100	2100	0
7/29/2024 11:47	40101	HUNT_T2	66	115	49	0.47	0.45	-0.02	-0.1	-0.06	0	0	0	0	0	0
7/29/2024 11:47	64204	KINZ_T1	4	3	-1	0.48	0.6	0.12	0	0	0	0	0	0	0	0
7/29/2024 11:47	64201	KINZ_T1	35	59	24	0.42	0.27	-0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/29/2024 11:48	48901	FOSP_T2	0	0	0	0	0	0	0.07	0.15	1	1	0	600	600	0
7/29/2024 11:48	48301	ORWI_T1	2	2	0	1	0.7	-0.3	0.98	1.09	0	0	0	0	0	0
7/29/2024 11:49	15604	NSTR_T1	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
7/29/2024 11:50	48301	ORWI_T1	2	2	0	1	0.7	-0.3	0.98	1.09	0	0	0	0	0	0
7/29/2024 11:50	55101	WERT_T1	0	0	0	0	0	0	-2.03	-1.92	4	4	0	3300	3300	0
7/29/2024 11:51	66902	SHIL_T2	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
7/29/2024 11:51	17002	RIRO_T2	1	4	3	0.1	0.25	0.15	0.99	0.84	0	0	0	0	0	0
7/29/2024 11:51	66903	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/29/2024 11:51	57401	SPAN_T1	0	0	0	0	0	0	-0.88	-0.84	1	1	0	600	600	0
7/29/2024 11:52	65901	SAKR_T2	1	1	0	6.9	6.8	-0.1	-0.58	-0.53	2	2	0	1500	1500	0
7/29/2024 11:52	65903	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 11:53	40201	BEGA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/29/2024 11:54	67801	WLAN_T1	0	18	18	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 11:54	67804	WLAN_T1	2	7	5	0.4	0.4	0	0	0	0	0	0	0	0	0
7/29/2024 11:54	67805	WLAN_T1	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
7/29/2024 11:55	42701	AUGU_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
7/29/2024 11:55	24902	WHHA_T1	1	1	0	0.5	0.7	0.2	0.91	0.91	0	0	0	0	0	0
7/29/2024 11:55	45501	DERR_T2	3	6	3	0.43	0.3	-0.13	1.11	1.14	2	2	0	1800	1800	0
7/29/2024 11:55	45502	DERR_T2	5	9	4	0.62	0.67	0.05	0	0	0	0	0	0	0	0
7/29/2024 11:56	53601	DALM_T2	1	2	1	0.4	0.9	0.5	-0.64	-0.82	2	2	0	1500	1500	0
7/29/2024 11:56	44801	EDAN_T2	3	3	0	0.37	0.5	0.13	-1.25	-1.16	0	0	0	0	0	0
7/29/2024 11:57	20401	ASHF_T2	4	2	-2	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
7/29/2024 11:57	20403	ASHF_T2	0	0	0	0	0	0	4.9	5.73	0	0	0	0	0	0
7/29/2024 11:58	45501	DERR_T2	3	6	3	0.43	0.3	-0.13	1.11	1.14	2	2	0	1800	1800	0
7/29/2024 11:58	45502	DERR_T2	5	9	4	0.62	0.67	0.05	0	0	0	0	0	0	0	0
7/29/2024 11:58	23202	HIRU_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
7/29/2024 11:58	23201	HIRU_T2	1	4	3	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/29/2024 11:58	10901	COOP_T2	0	0	0	0	0	0	0.25	0.37	1	1	0	1200	1200	0
7/29/2024 11:59	53501	EVIL_T2	1	3	2	0.3	0.5	0.2	-0.33	-1.21	3	4	1	1400	2300	900
7/29/2024 11:59	53502	EVIL_T2	2	2	0	0.95	0	-0.95	0	0	0	0	0	0	0	0
7/29/2024 11:59	57401	SPAN_T1	0	0	0	0	0	0	-0.84	-0.84	1	1	0	600	600	0
7/29/2024 12:00	45502	DERR_T2	4	19	15	0.58	0.53	-0.05	0	0	0	0	0	0	0	0
7/29/2024 12:00	45501	DERR_T2	2	7	5	0.4	0.45	0.05	1.11	1.14	2	2	0	1800	1800	0
7/29/2024 12:00	61302	EARL_T1	0	0	0	0	0	0	0.71	0.52	3	3	0	2700	2700	0
7/29/2024 12:01	53502	EVIL_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/29/2024 12:01	53501	EVIL_T2	1	3	2	0.2	0.6	0.4	-0.33	-1.21	3	4	1	1400	2300	900
7/29/2024 12:02	24902	WHHA_T1	1	1	0	0.7	0.9	0.2	0.91	0.91	0	0	0	0	0	0
7/29/2024 12:02	40101	HUNT_T2	59	135	76	0.46	0.4	-0.06	-0.06	0.06	0	0	0	0	0	0
7/29/2024 12:02	25402	LAHA_T2	0	0	0	0	0	0	-0.34	-0.29	0	0	0	0	0	0
7/29/2024 12:03	64203	KINZ_T1	2	2	0	1.45	1.4	-0.05	0	0	0	0	0	0	0	0
7/29/2024 12:03	64204	KINZ_T1	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0	0
7/29/2024 12:03	64201	KINZ_T1	25	113	88	0.28	0.32	0.04	0.51	0.51	4	4	0	2100	2100	0
7/29/2024 12:04	43101	SMIL_T2	1	2	1	2.5	0.8	-1.7	0	0	0	0	0	0	0	0
7/29/2024 12:04	56501	ROCK_T2	1	20	19	0.8	0.24	-0.56	-2	-1.9	0	0	0	0	0	0
7/29/2024 12:04	56504	ROCK_T2	5	3	-2	0.78	0	-0.78	0	0	0	0	0	0	0	0
7/29/2024 12:04	43108	SMIL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/29/2024 12:04	45702	LIND_T2	2	2	0	0.65	0.85	0.2	-1.49	-1.49	0	0	0	0	0	0
7/29/2024 12:04	43106	SMIL_T2	0	0	0	0	0	0	-0.54	-0.57	2	2	0	2400	2400	0
7/29/2024 12:05	56504	ROCK_T2	5	3	-2	0.78	0	-0.78	0	0	0	0	0	0	0	0
7/29/2024 12:05	13905	SEID_T1	0	0	0	0	0	0	-0.58	-0.57	1	1	0	1200	1200	0
7/29/2024 12:05	56501	ROCK_T2	1	20	19	0.8	0.24	-0.56	-0.67	-0.63	0	0	0	0	0	0
7/29/2024 12:06	40603	PIGR_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/29/2024 12:06	40602	PIGR_T1	1	1	0	1	1	0	-1.12	-1.08	1	1	0	600	600	0
7/29/2024 12:07	46302	ROHR_T1	4	4	0	1.2	1.23	0.03	0	0	0	0	0	0	0	0
7/29/2024 12:07	46301	ROHR_T1	3	2	-1	0.53	0.5	-0.03	0.74	0.78	0	0	0	0	0	0
7/29/2024 12:10	42701	AUGU_T1	0	1	1	0	0	0	0	0	2	2	0	1800	1800	0
7/29/2024 12:10	67804	WLAN_T1	3	9	6	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
7/29/2024 12:10	67803	WLAN_T1	0	0	0	0	0	0	-0.99	-0.96	0	0	0	0	0	0
7/29/2024 12:10	59102	WALK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/29/2024 12:10	67801	WLAN_T1	0	18	18	0	1.2	1.2	0	0	0	0	0	0	0	0
7/29/2024 12:10	44302	BEAV_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
7/29/2024 12:10	59101	WALK_T2	0	2	2	0	0.4	0.4	0.98	1.17	3	2	-1	1800	1200	-600
7/29/2024 12:15	52004	LING_T2	2	2	0	4.45	4.6	0.15	0	0	0	0	0	0	0	0
7/29/2024 12:15	52002	LING_T2	0	0	0	0	0	0	0.81	-0.08	0	0	0	0	0	0
7/29/2024 12:15	40101	HUNT_T2	114	214	100	0.43	0.42	-0.01	0.06	-0.07	0	0	0	0	0	0
7/29/2024 12:16	55101	WERT_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
7/29/2024 12:16	55105	WERT_T1	0	0	0	0	0	0	0.43	0.51	1	1	0	900	900	0
7/29/2024 12:16	52404	GRPA_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/29/2024 12:16	52401	GRPA_T2	3	7	4	0.43	0.5	0.07	0	0	0	0	0	0	0	0
7/29/2024 12:16	52403	GRPA_T2	33	80	47	0.4	0.61	0.21	-0.09	-0.03	0	0	0	0	0	0
7/29/2024 12:16	52402	GRPA_T2	33	14	-19	0.81	0.35	-0.46	0	0	0	0	0	0	0	0
7/29/2024 12:19	52004	LING_T2	2	2	0	4.45	4.6	0.15	0	0	0	0	0	0	0	0
7/29/2024 12:19	52002	LING_T2	0	0	0	0	0	0	0.81	-0.08	0	0	0	0	0	0
7/29/2024 12:20	24201	PROV_T3	3	3	0	3.13	3.3	0.17	-0.89	-0.87	1	1	0	1200	1200	0
7/29/2024 12:20	24204	PROV_T3	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
7/29/2024 12:21	21705	SUBU_T1	1	1	0	6.1	5.9	-0.2	1	1	0	0	0	0	0	0
7/29/2024 12:21	21701	SUBU_T1	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
7/29/2024 12:22	61102	BERK_T5	0	0	0	0	0	0	0.75	0.74	1	1	0	300	300	0
7/29/2024 12:22	67103	SPBI_T1	0	0	0	0	0	0	-0.52	-0.49	0	0	0	0	0	0
7/29/2024 12:23	61102	BERK_T5	0	0	0	0	0	0	0.75	0.74	1	1	0	300	300	0
7/29/2024 12:24	61102	BERK_T5	0	0	0	0	0	0	0.75	0.74	1	1	0	300	300	0
7/29/2024 12:24	43101	SMIL_T2	1	2	1	2	0.2	-1.8	0	0	0	0	0	0	0	0
7/29/2024 12:24	43108	SMIL_T2	1	1	0	0.6	0.5	-0.1	-0.68	-0.66	1	1	0	1200	1200	0
7/29/2024 12:24	43103	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 12:25	61102	BERK_T5	0	0	0	0	0	0	1.5	1.49	2	2	0	600	600	0
7/29/2024 12:25	60701	BREC_T1	0	1	1	0	0.2	0.2	-0.37	-0.53	2	2	0	1200	1200	0
7/29/2024 12:26	60701	BREC_T1	0	1	1	0	0.2	0.2	-0.74	-1.06	4	4	0	2400	2400	0
7/29/2024 12:28	40902	JESH_T1	0	0	0	0	0	0	-0.51	-0.44	2	2	0	1200	1200	0
7/29/2024 12:28	40901	JESH_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
7/29/2024 12:28	48902	FOSP_T2	0	0	0	0	0	0	0.85	0.9	1	1	0	1200	1200	0
7/29/2024 12:32	43201	MVIL_T2	1	1	0	0.2	0.6	0.4	-0.4	-0.35	0	0	0	0	0	0
7/29/2024 12:34	42902	MIDD_T2	1	1	0	2	2.2	0.2	0	0	0	0	0	0	0	0
7/29/2024 12:34	42903	MIDD_T2	2	1	-1	0.15	0	-0.15	1.26	0.52	0	1	1	0	1200	1200
7/29/2024 12:34	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
7/29/2024 12:34	15702	TANN_T2	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
7/29/2024 12:34	61102	BERK_T5	0	0	0	0	0	0	0.75	0.74	1	1	0	300	300	0
7/29/2024 12:35	46302	ROHR_T1	4	4	0	1.23	1.5	0.27	0.36	0.37	0	0	0	0	0	0
7/29/2024 12:35	46301	ROHR_T1	2	7	5	0.5	0.49	-0.01	0	0	0	0	0	0	0	0
7/29/2024 12:36	54701	NEBL_T1	0	4	4	0	0.2	0.2	0	0	1	1	0	600	600	0
7/29/2024 12:36	55101	WERT_T1	4	8	4	0.2	0.1	-0.1	-1.82	-1.81	4	4	0	3300	3300	0
7/29/2024 12:36	15702	TANN_T2	0	0	0	0	0	0	0.02	0.07	0	0	0	0	0	0
7/29/2024 12:36	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
7/29/2024 12:37	66901	SHIL_T2	0	0	0	0	0	0	-0.83	-0.75	1	1	0	1200	1200	0
7/29/2024 12:37	66903	SHIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/29/2024 12:38	21701	SUBU_T1	1	1	0	6.6	6.8	0.2	1.15	1.16	0	0	0	0	0	0
7/29/2024 12:38	21705	SUBU_T1	1	1	0	5.9	6.2	0.3	0	0	0	0	0	0	0	0
7/29/2024 12:39	46301	ROHR_T1	2	7	5	0.5	0.49	-0.01	0	0	0	0	0	0	0	0
7/29/2024 12:39	46302	ROHR_T1	4	4	0	1.23	1.5	0.27	0.37	0.35	0	0	0	0	0	0
7/29/2024 12:39	55101	WERT_T1	4	8	4	0.2	0.1	-0.1	-5.43	-5.19	12	12	0	9900	9900	0
7/29/2024 12:41	60101	COCA_T1	0	0	0	0	0	0	1.79	1.96	0	0	0	0	0	0
7/29/2024 12:41	11104	EGYP_T1	5	6	1	0.5	0.33	-0.17	1.05	1.06	0	0	0	0	0	0
7/29/2024 12:41	11102	EGYP_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/29/2024 12:42	45502	DERR_T2	17	127	110	0.46	0.43	-0.03	0.39	0.43	1	1	0	300	300	0
7/29/2024 12:42	45501	DERR_T2	6	12	6	0.68	0.64	-0.04	0	0	0	0	0	0	0	0
7/29/2024 12:42	11104	EGYP_T1	5	6	1	0.5	0.33	-0.17	1.05	1.06	0	0	0	0	0	0
7/29/2024 12:42	44801	EDAN_T2	2	3	1	0.9	0.7	-0.2	-1.17	-1.14	0	0	0	0	0	0
7/29/2024 12:42	11102	EGYP_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
7/29/2024 12:43	61301	EARL_T1	0	0	0	0	0	0	-1.2	-1.19	2	2	0	1800	1800	0
7/29/2024 12:43	60102	COCA_T1	0	0	0	0	0	0	-1.32	-1.41	3	3	0	2100	2100	0
7/29/2024 12:44	23401	HONE_T2	0	0	0	0	0	0	-0.22	-0.08	0	0	0	0	0	0
7/29/2024 12:45	64305	LINC_T1	1	2	1	1	1.3	0.3	0	0	0	0	0	0	0	0
7/29/2024 12:45	64303	LINC_T1	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
7/29/2024 12:46	66901	SHIL_T2	0	0	0	0	0	0	-0.83	-0.75	1	1	0	1200	1200	0
7/29/2024 12:46	64302	LINC_T2	3	9	6	0.33	0.95	0.62	1.61	1.62	0	0	0	0	0	0
7/29/2024 12:48	44202	POIN_T2	0	0	0	0	0	0	-0.12	-0.75	1	2	1	1200	1800	600
7/29/2024 12:48	44203	POIN_T2	6	8	2	1.97	1.38	-0.59	0	0	0	0	0	0	0	0
7/29/2024 12:52	29402	BELT_T1	1	1	0	7.3	7.1	-0.2	0	0	0	0	0	0	0	0
7/29/2024 12:52	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/29/2024 12:52	42701	AUGU_T1	1	2	1	0.4	1.8	1.4	0	0	2	2	0	1800	1800	0
7/29/2024 12:56	46004	BERW_T2	0	1	1	0	0.2	0.2	0.97	1.05	0	0	0	0	0	0
7/29/2024 12:56	46002	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 12:56	59001	MIFF_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/29/2024 12:56	59003	MIFF_T1	4	14	10	1.6	1.47	-0.13	-0.22	-0.39	0	0	0	0	0	0
7/29/2024 12:56	60101	COCA_T1	0	0	0	0	0	0	0.98	1.04	0	0	0	0	0	0
7/29/2024 12:57	44801	EDAN_T2	3	1	-2	0.7	1.1	0.4	-1.14	-1.15	0	0	0	0	0	0
7/29/2024 12:57	60101	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 12:58	46801	HEPB_T2	7	3	-4	0.57	1.1	0.53	0	0	0	0	0	0	0	0
7/29/2024 12:58	46803	HEPB_T2	2	1	-1	0.45	0.2	-0.25	0.5	0.47	0	0	0	0	0	0
7/29/2024 12:58	61102	BERK_T5	0	0	0	0	0	0	0.79	0.9	1	1	0	300	300	0
7/29/2024 13:00	52004	LING_T2	2	3	1	4.55	4.5	-0.05	0.62	0.64	0	0	0	0	0	0
7/29/2024 13:01	64701	LITI_T1	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
7/29/2024 13:01	64704	LITI_T1	0	0	0	0	0	0	0.36	0.38	1	1	0	600	600	0
7/29/2024 13:02	64302	LINC_T2	2	12	10	0.95	0.79	-0.16	1.62	1.73	0	0	0	0	0	0
7/29/2024 13:02	64303	LINC_T1	0	0	0	0	0	0	0.36	0.32	0	0	0	0	0	0
7/29/2024 13:02	64305	LINC_T1	1	2	1	1.3	1.05	-0.25	0	0	0	0	0	0	0	0
7/29/2024 13:05	43103	SMIL_T2	0	0	0	0	0	0	-1.56	-1.57	0	0	0	0	0	0
7/29/2024 13:05	43101	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/29/2024 13:11	51901	COPA_T1	0	0	0	0	0	0	-0.79	-0.74	0	0	0	0	0	0
7/29/2024 13:11	51904	COPA_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
7/29/2024 13:11	22102	EDEL_T1	0	0	0	0	0	0	-0.7	-1.02	1	1	0	1200	1200	0
7/29/2024 13:12	61506	EPET_T2	0	0	0	0	0	0	-0.9	-0.88	2	2	0	1800	1800	0
7/29/2024 13:12	40201	BEGA_T2	1	3	2	1.4	0.6	-0.8	0	0	0	0	0	0	0	0
7/29/2024 13:12	61501	EPET_T2	1	1	0	6.2	5.9	-0.3	0	0	0	0	0	0	0	0
7/29/2024 13:14	42302	MOWR_T2	43	51	8	0.69	0.72	0.03	0	0	0	0	0	0	0	0
7/29/2024 13:14	42301	MOWR_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/29/2024 13:15	40201	BEGA_T2	3	4	1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
7/29/2024 13:17	12701	MACU_T1	0	0	0	0	0	0	-0.89	-0.87	1	1	0	1200	1200	0
7/29/2024 13:18	12701	MACU_T1	0	0	0	0	0	0	-1.77	-1.74	2	2	0	2400	2400	0
7/29/2024 13:18	59402	RFLD_T2	10	14	4	0.55	0.4	-0.15	-0.56	-0.6	1	1	0	450	450	0
7/29/2024 13:20	59402	RFLD_T2	10	14	4	0.55	0.4	-0.15	-0.56	-0.6	1	1	0	450	450	0
7/29/2024 13:20	12701	MACU_T1	0	0	0	0	0	0	-0.89	-0.87	1	1	0	1200	1200	0
7/29/2024 13:22	55101	WERT_T1	9	12	3	1.56	0.72	-0.84	-3.14	-2.88	8	8	0	6600	6600	0
7/29/2024 13:22	55103	WERT_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/29/2024 13:23	59402	RFLD_T2	10	14	4	0.55	0.4	-0.15	-0.6	-0.63	1	1	0	450	450	0
7/29/2024 13:24	55101	WERT_T1	9	12	3	1.56	0.72	-0.84	-1.57	-1.44	4	4	0	3300	3300	0
7/29/2024 13:24	55103	WERT_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/29/2024 13:31	58401	MORO_T1	1	1	0	0.4	0.1	-0.3	-3.07	-2.9	6	6	0	4200	4200	0
7/29/2024 13:31	13503	MCMI_T2	191	219	28	0.37	0.51	0.14	-0.72	-0.67	0	0	0	0	0	0
7/29/2024 13:31	58402	MORO_T1	7	16	9	0.64	1.83	1.19	0	0	0	0	0	0	0	0
7/29/2024 13:32	13503	MCMI_T2	191	219	28	0.37	0.51	0.14	-0.72	-0.67	0	0	0	0	0	0
7/29/2024 13:34	13502	MCMI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/29/2024 13:34	13503	MCMI_T2	191	219	28	0.37	0.51	0.14	-0.72	-0.67	0	0	0	0	0	0
7/29/2024 13:34	13501	MCMI_T1	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
7/29/2024 13:35	29401	BELT_T1	50	39	-11	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
7/29/2024 13:35	29402	BELT_T1	70	69	-1	0.34	0.35	0.01	0	0	0	0	0	0	0	0
7/29/2024 13:36	55002	NEWP_T1	1	1	0	0.5	1.4	0.9	0	0	0	0	0	0	0	0
7/29/2024 13:36	55001	NEWP_T1	0	1	1	0	0	0	-0.45	-0.43	2	2	0	1200	1200	0
7/29/2024 13:37	64101	REFR_T1	6	5	-1	0.77	0.97	0.2	-0.04	-0.06	0	0	0	0	0	0
7/29/2024 13:37	55001	NEWP_T1	0	1	1	0	0	0	-0.21	-0.17	1	1	0	600	600	0
7/29/2024 13:37	55002	NEWP_T1	1	1	0	0.5	1.4	0.9	0	0	0	0	0	0	0	0
7/29/2024 13:39	29402	BELT_T1	70	69	-1	0.34	0.35	0.01	0	0	0	0	0	0	0	0
7/29/2024 13:39	25603	ARRO_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
7/29/2024 13:39	29401	BELT_T1	50	39	-11	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
7/29/2024 13:40	45501	DERR_T2	18	13	-5	1.15	0.45	-0.7	1.43	1.34	2	2	0	1800	1800	0
7/29/2024 13:40	45502	DERR_T2	166	38	-128	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
7/29/2024 13:42	45502	DERR_T2	166	38	-128	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
7/29/2024 13:42	45501	DERR_T2	18	13	-5	1.15	0.45	-0.7	2.86	2.68	4	4	0	3600	3600	0
7/29/2024 13:42	25603	ARRO_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
7/29/2024 13:47	57401	SPAN_T1	0	10	10	0	0.2	0.2	-0.35	-0.33	1	1	0	600	600	0
7/29/2024 13:48	40101	HUNT_T2	101	165	64	0.54	0.45	-0.09	-0.52	-0.57	0	0	0	0	0	0
7/29/2024 13:48	57404	SPAN_T2	0	0	0	0	0	0	-1.25	-0.86	1	1	0	1200	1200	0
7/29/2024 13:49	54701	NEBL_T1	20	39	19	0.58	0.5	-0.08	0	0	1	1	0	600	600	0
7/29/2024 13:51	48301	ORWI_T1	80	112	32	0.34	0.38	0.04	1.29	1.27	0	0	0	0	0	0
7/29/2024 13:51	50701	SMEC_T1	1	1	0	0.3	0.3	0	-0.61	-0.37	1	1	0	1200	1200	0
7/29/2024 13:52	48301	ORWI_T1	80	112	32	0.34	0.38	0.04	1.27	1.28	0	0	0	0	0	0
7/29/2024 13:54	29402	BELT_T1	69	33	-36	0.35	0.35	0	0	0	0	0	0	0	0	0
7/29/2024 13:54	29401	BELT_T1	39	19	-20	0.2	0.11	-0.09	0	0	1	1	0	900	900	0
7/29/2024 14:00	60102	COCA_T1	0	0	0	0	0	0	-1.02	-0.92	3	3	0	2100	2100	0
7/29/2024 14:01	46801	HEPB_T2	2	2	0	1.1	1.2	0.1	0.34	0.38	0	0	0	0	0	0
7/29/2024 14:01	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/29/2024 14:02	28805	LAKE_T1	0	1	1	0	0.5	0.5	-0.07	-0.07	0	0	0	0	0	0
7/29/2024 14:03	64101	REFR_T1	4	12	8	0.78	0.83	0.05	-0.06	-0.01	0	0	0	0	0	0
7/29/2024 14:05	24201	PROV_T3	3	3	0	4.9	5.17	0.27	-0.68	-0.69	1	1	0	1200	1200	0
7/29/2024 14:05	24205	PROV_T3	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
7/29/2024 14:05	24204	PROV_T3	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
7/29/2024 14:09	45402	WBLO_T2	1	0	-1	0.2	0	-0.2	-0.75	-0.71	1	1	0	900	900	0
7/29/2024 14:12	46206	DANV_T2	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
7/29/2024 14:12	46203	DANV_T2	0	2	2	0	0.9	0.9	-1.26	-1.26	0	0	0	0	0	0
7/29/2024 14:13	53501	EVIL_T2	1	2	1	0.1	0	-0.1	-1.23	-1.14	4	4	0	2300	2300	0
7/29/2024 14:13	53502	EVIL_T2	4	7	3	0.78	0.83	0.05	0	0	0	0	0	0	0	0
7/29/2024 14:15	53501	EVIL_T2	2	0	-2	0.25	0	-0.25	-1.23	-1.14	4	4	0	2300	2300	0
7/29/2024 14:15	53502	EVIL_T2	5	6	1	0.72	0.83	0.11	0	0	0	0	0	0	0	0
7/29/2024 14:15	45801	HEGI_T1	0	0	0	0	0	0	-0.03	0.02	1	1	0	900	900	0
7/29/2024 14:16	40101	HUNT_T2	139	226	87	0.5	0.47	-0.03	-0.27	-0.26	0	0	0	0	0	0
7/29/2024 14:16	53502	EVIL_T2	5	6	1	0.72	0.83	0.11	0	0	0	0	0	0	0	0
7/29/2024 14:16	53501	EVIL_T2	2	0	-2	0.25	0	-0.25	-1.23	-1.14	4	4	0	2300	2300	0
7/29/2024 14:18	58702	ROSE_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
7/29/2024 14:18	64101	REFR_T1	3	15	12	0.83	0.58	-0.25	-0.01	0	0	0	0	0	0	0
7/29/2024 14:18	58701	ROSE_T2	0	4	4	0	0.25	0.25	-0.27	-0.22	1	1	0	600	600	0
7/29/2024 14:18	58705	ROSE_T2	2	3	1	1	0.95	-0.05	0	0	0	0	0	0	0	0
7/29/2024 14:18	58706	ROSE_T2	1	1	0	2.1	2.4	0.3	0	0	0	0	0	0	0	0
7/29/2024 14:20	47101	MARL_T1	36	91	55	1.19	1.05	-0.14	-0.52	-0.39	1	1	0	600	600	0
7/29/2024 14:21	64101	REFR_T1	3	15	12	0.83	0.58	-0.25	0	0.01	0	0	0	0	0	0
7/29/2024 14:21	55001	NEWP_T1	1	10	9	0.7	0.2	-0.5	-0.17	-0.17	1	1	0	600	600	0
7/29/2024 14:21	43101	SMIL_T2	1	3	2	1.3	1.7	0.4	0	0	0	0	0	0	0	0
7/29/2024 14:21	55002	NEWP_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/29/2024 14:21	43103	SMIL_T2	0	0	0	0	0	0	-1.51	-1.41	0	0	0	0	0	0
7/29/2024 14:21	52501	PROG_T1	1	2	1	0.1	0.2	0.1	-0.52	-0.45	1	1	0	300	300	0
7/29/2024 14:22	47101	MARL_T1	36	91	55	1.19	1.05	-0.14	-0.39	-0.41	1	1	0	600	600	0
7/29/2024 14:22	43103	SMIL_T2	0	0	0	0	0	0	-3.01	-2.83	0	0	0	0	0	0
7/29/2024 14:22	43101	SMIL_T2	1	3	2	1.3	1.7	0.4	0	0	0	0	0	0	0	0
7/29/2024 14:28	46206	DANV_T2	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
7/29/2024 14:28	46203	DANV_T2	2	1	-1	0.6	0	-0.6	-1.26	-1.29	0	0	0	0	0	0
7/29/2024 14:29	10801	CHIH_T1	4	7	3	0.53	0.4	-0.13	-1.2	-1.18	3	3	0	2100	2100	0
7/29/2024 14:29	46206	DANV_T2	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
7/29/2024 14:29	46203	DANV_T2	2	1	-1	0.6	0	-0.6	-1.26	-1.29	0	0	0	0	0	0
7/29/2024 14:30	48902	FOSP_T2	0	0	0	0	0	0	0.89	0.92	1	1	0	1200	1200	0
7/29/2024 14:31	41001	LAUR_T2	6	9	3	0.5	0.67	0.17	0	0	0	0	0	0	0	0
7/29/2024 14:31	41002	LAUR_T2	4	4	0	0.53	0.65	0.12	0.31	0.32	0	0	0	0	0	0
7/29/2024 14:35	57401	SPAN_T1	20	8	-12	0.41	0.7	0.29	-0.23	-0.8	1	1	0	600	600	0
7/29/2024 14:39	48902	FOSP_T2	0	0	0	0	0	0	0.92	0.83	1	0	-1	1200	0	-1200
7/29/2024 14:40	16103	BING_T2	0	0	0	0	0	0	-0.3	-0.24	1	1	0	600	600	0
7/29/2024 14:40	42701	AUGU_T1	26	19	-7	0.5	0.55	0.05	0	0	2	2	0	1800	1800	0
7/29/2024 14:40	16101	BING_T2	2	7	5	0.75	1.5	0.75	0	0	0	0	0	0	0	0
7/29/2024 14:40	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/29/2024 14:41	61703	ELIZ_T1	0	0	0	0	0	0	-1.9	-1.78	2	2	0	2100	2100	0
7/29/2024 14:41	61701	ELIZ_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
7/29/2024 14:42	62601	ENGL_T1	0	0	0	0	0	0	-0.97	-0.99	0	0	0	0	0	0
7/29/2024 14:42	62607	ENGL_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
7/29/2024 14:42	62606	ENGL_T1	9	9	0	0.89	0.97	0.08	0	0	0	0	0	0	0	0
7/29/2024 14:42	61701	ELIZ_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
7/29/2024 14:42	61703	ELIZ_T1	0	0	0	0	0	0	-1.9	-1.78	2	2	0	2100	2100	0
7/29/2024 14:43	10805	CHIH_T2	1	1	0	8.7	8.4	-0.3	-1.09	-0.98	1	1	0	600	600	0
7/29/2024 14:44	61703	ELIZ_T1	0	0	0	0	0	0	-3.8	-3.56	4	4	0	4200	4200	0
7/29/2024 14:44	53502	EVIL_T2	5	9	4	0.72	0.63	-0.09	0	0	0	0	0	0	0	0
7/29/2024 14:44	53501	EVIL_T2	0	1	1	0	0.1	0.1	-1.1	-1.07	4	4	0	2300	2300	0
7/29/2024 14:44	61701	ELIZ_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
7/29/2024 14:45	10805	CHIH_T2	1	1	0	8.4	8.7	0.3	-1.09	-0.98	1	1	0	600	600	0
7/29/2024 14:46	11804	FRAN_T1	190	228	38	0.74	0.68	-0.06	1.69	1.73	0	0	0	0	0	0
7/29/2024 14:47	53502	EVIL_T2	4	8	4	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
7/29/2024 14:47	53501	EVIL_T2	0	3	3	0	0.1	0.1	-1.1	-1.07	4	4	0	2300	2300	0
7/29/2024 14:47	57401	SPAN_T1	5	11	6	0.7	0.76	0.06	-0.8	-0.68	1	1	0	600	600	0
7/29/2024 14:49	56504	ROCK_T2	0	6	6	0	0	0	0.52	0.45	0	0	0	0	0	0
7/29/2024 14:49	48302	ORWI_T2	0	1	1	0	0	0	0.04	0.03	0	0	0	0	0	0
7/29/2024 14:49	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 14:49	56501	ROCK_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
7/29/2024 14:50	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 14:50	65401	MARI_T1	17	17	0	5.98	5.08	-0.9	0	0	0	0	0	0	0	0
7/29/2024 14:51	57401	SPAN_T1	5	11	6	0.7	0.76	0.06	-0.8	-0.68	1	1	0	600	600	0
7/29/2024 14:51	47101	MARL_T1	86	162	76	1.02	1.16	0.14	-0.41	-0.5	1	1	0	600	600	0
7/29/2024 14:52	43101	SMIL_T2	3	2	-1	1.13	1.2	0.07	0	0	0	0	0	0	0	0
7/29/2024 14:52	43108	SMIL_T2	0	1	1	0	0	0	-0.74	-0.74	1	1	0	1200	1200	0
7/29/2024 14:52	43104	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 14:53	47101	MARL_T1	86	162	76	1.02	1.16	0.14	-0.5	-0.45	1	1	0	600	600	0
7/29/2024 14:54	49804	UNIV_T1	1	2	1	0.5	0.2	-0.3	1	0.9	0	0	0	0	0	0
7/29/2024 14:54	49803	UNIV_T1	1	0	-1	6.1	6	-0.1	0	0	0	0	0	0	0	0
7/29/2024 14:55	67602	WARW_T2	2	0	-2	0.45	0	-0.45	1.12	1.12	2	2	0	1500	1500	0
7/29/2024 14:55	48902	FOSP_T2	0	0	0	0	0	0	0.83	0.75	0	0	0	0	0	0
7/29/2024 14:57	21206	ECAR_T2	7	7	0	1.43	2.2	0.77	0.73	0.58	0	0	0	0	0	0
7/29/2024 14:57	21204	ECAR_T2	1	3	2	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 14:57	21202	ECAR_T2	3	2	-1	1.03	0.8	-0.23	0	0	0	0	0	0	0	0
7/29/2024 15:02	42902	MIDD_T2	12	21	9	0.68	0.8	0.12	0.09	-0.37	1	1	0	600	600	0
7/29/2024 15:02	42903	MIDD_T2	4	4	0	0.55	0.58	0.03	0	0	0	0	0	0	0	0
7/29/2024 15:02	42901	MIDD_T2	4	9	5	1.08	0.73	-0.35	0	0	0	0	0	0	0	0
7/29/2024 15:03	64101	REFR_T1	17	30	13	1.08	0.97	-0.11	0.03	0.08	0	0	0	0	0	0
7/29/2024 15:03	57401	SPAN_T1	8	31	23	0.7	0.89	0.19	-0.68	-0.62	1	1	0	600	600	0
7/29/2024 15:05	56501	ROCK_T2	2	2	0	0.65	1.4	0.75	0	0	0	0	0	0	0	0
7/29/2024 15:05	56503	ROCK_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/29/2024 15:05	56504	ROCK_T2	1	4	3	0.4	0.1	-0.3	0.45	0.43	0	0	0	0	0	0
7/29/2024 15:06	56504	ROCK_T2	1	4	3	0.4	0.1	-0.3	0.89	0.85	0	0	0	0	0	0
7/29/2024 15:06	56503	ROCK_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/29/2024 15:06	42901	MIDD_T2	4	9	5	1.08	0.73	-0.35	0	0	0	0	0	0	0	0
7/29/2024 15:06	64101	REFR_T1	17	30	13	1.08	0.97	-0.11	0.08	0.11	0	0	0	0	0	0
7/29/2024 15:06	42903	MIDD_T2	4	4	0	0.55	0.58	0.03	0	0	0	0	0	0	0	0
7/29/2024 15:06	42902	MIDD_T2	12	21	9	0.68	0.8	0.12	-0.37	-0.39	1	1	0	600	600	0
7/29/2024 15:06	56501	ROCK_T2	2	2	0	0.65	1.4	0.75	0	0	0	0	0	0	0	0
7/29/2024 15:07	56504	ROCK_T2	1	4	3	0.4	0.1	-0.3	0.43	0.48	0	0	0	0	0	0
7/29/2024 15:07	64101	REFR_T1	17	30	13	1.08	0.97	-0.11	0.08	0.11	0	0	0	0	0	0
7/29/2024 15:07	56503	ROCK_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/29/2024 15:07	56501	ROCK_T2	2	2	0	0.65	1.4	0.75	0	0	0	0	0	0	0	0
7/29/2024 15:08	42903	MIDD_T2	4	4	0	0.55	0.58	0.03	0	0	0	0	0	0	0	0
7/29/2024 15:08	42901	MIDD_T2	4	9	5	1.08	0.73	-0.35	0	0	0	0	0	0	0	0
7/29/2024 15:08	42902	MIDD_T2	12	21	9	0.68	0.8	0.12	-1.47	-1.57	4	4	0	2400	2400	0
7/29/2024 15:09	67602	WARW_T2	0	2	2	0	0	0	1.12	1.16	2	2	0	1500	1500	0
7/29/2024 15:09	56504	ROCK_T2	1	4	3	0.4	0.1	-0.3	0.43	0.48	0	0	0	0	0	0
7/29/2024 15:09	53601	DALM_T2	1	1	0	0.3	1	0.7	-1.23	-1.3	2	2	0	1500	1500	0
7/29/2024 15:09	56503	ROCK_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/29/2024 15:09	56501	ROCK_T2	2	2	0	0.65	1.4	0.75	0	0	0	0	0	0	0	0
7/29/2024 15:09	20601	GRWO_T2	249	310	61	0.99	0.88	-0.11	1.25	1.18	0	0	0	0	0	0
7/29/2024 15:11	10805	CHIH_T2	1	0	-1	8.7	8.8	0.1	-0.89	-1.11	1	1	0	600	600	0
7/29/2024 15:12	67602	WARW_T2	0	2	2	0	0	0	2.24	2.32	4	4	0	3000	3000	0
7/29/2024 15:19	64101	REFR_T1	24	30	6	0.91	1.45	0.54	0.08	0.11	0	0	0	0	0	0
7/29/2024 15:22	64101	REFR_T1	24	30	6	0.91	1.45	0.54	0.11	0.15	0	0	0	0	0	0
7/29/2024 15:23	64101	REFR_T1	24	30	6	0.91	1.45	0.54	0.11	0.15	0	0	0	0	0	0
7/29/2024 15:23	55001	NEWP_T1	27	20	-7	0.47	0.35	-0.12	-0.1	-0.05	1	1	0	600	600	0
7/29/2024 15:26	61701	ELIZ_T1	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
7/29/2024 15:26	61703	ELIZ_T1	0	0	0	0	0	0	-2.22	-2.23	2	2	0	2100	2100	0
7/29/2024 15:31	58402	MORO_T1	9	0	-9	0.54	0	-0.54	0	0	0	0	0	0	0	0
7/29/2024 15:31	57702	PAXT_T1	0	0	0	0	0	0	-0.34	-0.03	0	0	0	0	0	0
7/29/2024 15:31	58401	MORO_T1	7	5	-2	0.46	0	-0.46	-1.38	-1.42	3	3	0	2100	2100	0
7/29/2024 15:32	58402	MORO_T1	9	0	-9	0.54	0	-0.54	0	0	0	0	0	0	0	0
7/29/2024 15:32	58401	MORO_T1	7	5	-2	0.46	0	-0.46	-1.38	-1.42	3	3	0	2100	2100	0
7/29/2024 15:32	64101	REFR_T1	28	32	4	1.65	1.6	-0.05	0.11	0.15	0	0	0	0	0	0
7/29/2024 15:38	43104	SMIL_T2	1	2	1	0.2	0	-0.2	-0.23	-0.24	1	1	0	300	300	0
7/29/2024 15:38	43108	SMIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/29/2024 15:38	43101	SMIL_T2	2	1	-1	0.65	0.9	0.25	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/29/2024 15:40	43108	SMIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/29/2024 15:40	43101	SMIL_T2	2	1	-1	0.65	0.9	0.25	0	0	0	0	0	0	0	0
7/29/2024 15:40	43104	SMIL_T2	1	2	1	0.2	0	-0.2	-0.23	-0.24	1	1	0	300	300	0
7/29/2024 15:41	43104	SMIL_T2	1	2	1	0.2	0	-0.2	-0.46	-0.48	2	2	0	600	600	0
7/29/2024 15:41	15402	WALL_T1	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
7/29/2024 15:41	43108	SMIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
7/29/2024 15:41	43101	SMIL_T2	2	1	-1	0.65	0.9	0.25	0	0	0	0	0	0	0	0
7/29/2024 15:46	45802	HEGI_T2	33	35	2	0.57	0.56	-0.01	-0.19	-0.32	2	2	0	1200	1200	0
7/29/2024 15:47	45802	HEGI_T2	33	35	2	0.57	0.56	-0.01	-0.19	-0.32	2	2	0	1200	1200	0
7/29/2024 15:47	64302	LINC_T2	41	43	2	0.58	0.74	0.16	1.97	1.97	0	0	0	0	0	0
7/29/2024 15:49	64101	REFR_T1	29	31	2	1.57	1.5	-0.07	0.15	0.17	0	0	0	0	0	0
7/29/2024 15:50	46102	MACI_T1	0	0	0	0	0	0	0.97	0.98	0	0	0	0	0	0
7/29/2024 15:51	65802	RTWN_T2	0	0	0	0	0	0	-0.2	-0.23	0	0	0	0	0	0
7/29/2024 15:51	14403	SSLA_T1	3	3	0	0.93	0.9	-0.03	1.13	1.16	1	1	0	600	600	0
7/29/2024 15:51	14402	SSLA_T1	0	51	51	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 15:51	14702	TREX_T2	0	0	0	0	0	0	2.91	3.01	0	0	0	0	0	0
7/29/2024 15:52	48301	ORWI_T1	54	61	7	0.32	0.25	-0.07	1.15	1.11	0	0	0	0	0	0
7/29/2024 15:53	48301	ORWI_T1	54	61	7	0.32	0.25	-0.07	1.15	1.11	0	0	0	0	0	0
7/29/2024 15:54	14702	TREX_T2	0	0	0	0	0	0	1.46	1.51	0	0	0	0	0	0
7/29/2024 15:59	56504	ROCK_T2	7	10	3	0.59	0.43	-0.16	0.49	0.44	0	0	0	0	0	0
7/29/2024 15:59	56501	ROCK_T2	1	3	2	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
7/29/2024 15:59	56503	ROCK_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/29/2024 16:02	51004	NHAR_T1	1	4	3	8	7.9	-0.1	-0.42	-0.4	0	0	0	0	0	0
7/29/2024 16:02	51006	NHAR_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/29/2024 16:02	51003	NHAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 16:03	51006	NHAR_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/29/2024 16:03	51003	NHAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 16:03	51004	NHAR_T1	1	4	3	8	7.9	-0.1	-0.42	-0.4	0	0	0	0	0	0
7/29/2024 16:05	51006	NHAR_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/29/2024 16:05	51004	NHAR_T1	1	4	3	8	7.9	-0.1	-0.42	-0.4	0	0	0	0	0	0
7/29/2024 16:05	51003	NHAR_T1	0	1	1	0	0	0	-1.71	-1.87	1	1	0	1200	1200	0
7/29/2024 16:21	56503	ROCK_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/29/2024 16:21	56501	ROCK_T2	1	1	0	0.7	1.1	0.4	-1.36	-1.34	0	0	0	0	0	0
7/29/2024 16:21	56504	ROCK_T2	5	14	9	0.38	0.38	0	0	0	0	0	0	0	0	0
7/29/2024 16:23	57101	SPHI_T2	6	6	0	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
7/29/2024 16:23	56503	ROCK_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/29/2024 16:23	57104	SPHI_T2	0	0	0	0	0	0	-1.67	-1.63	1	1	0	900	900	0
7/29/2024 16:23	56504	ROCK_T2	5	14	9	0.38	0.38	0	0	0	0	0	0	0	0	0
7/29/2024 16:23	57106	SPHI_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
7/29/2024 16:23	56501	ROCK_T2	1	1	0	0.7	1.1	0.4	-1.34	-1.37	0	0	0	0	0	0
7/29/2024 16:24	56501	ROCK_T2	1	1	0	0.7	1.1	0.4	-1.34	-1.37	0	0	0	0	0	0
7/29/2024 16:24	56504	ROCK_T2	5	14	9	0.38	0.38	0	0	0	0	0	0	0	0	0
7/29/2024 16:24	56503	ROCK_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/29/2024 16:25	24105	EHAZ_T1	4	4	0	6.78	6.53	-0.25	0	0	0	0	0	0	0	0
7/29/2024 16:25	56501	ROCK_T2	1	1	0	0.7	1.1	0.4	-1.34	-1.37	0	0	0	0	0	0
7/29/2024 16:25	24102	EHAZ_T1	1	1	0	0.5	0.4	-0.1	0.31	0.3	0	0	0	0	0	0
7/29/2024 16:25	24101	EHAZ_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/29/2024 16:25	56503	ROCK_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/29/2024 16:25	14403	SSLA_T1	3	2	-1	1.23	0.3	-0.93	1.18	1.21	1	1	0	600	600	0
7/29/2024 16:25	56504	ROCK_T2	5	14	9	0.38	0.38	0	0	0	0	0	0	0	0	0
7/29/2024 16:27	14403	SSLA_T1	3	2	-1	1.23	0.3	-0.93	1.18	1.21	1	1	0	600	600	0
7/29/2024 16:38	59101	WALK_T2	1	5	4	0.3	0.43	0.13	0.71	0.86	3	3	0	1800	1800	0
7/29/2024 16:45	14603	SWHI_T1	2	6	4	0.3	0.55	0.25	0	0	0	0	0	0	0	0
7/29/2024 16:45	14605	SWHI_T1	21	38	17	0.43	0.51	0.08	0	0	0	0	0	0	0	0
7/29/2024 16:45	14601	SWHI_T1	3	9	6	0.3	0.5	0.2	83.96	83.96	0	0	0	0	0	0
7/29/2024 16:45	14602	SWHI_T1	2	2	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/29/2024 16:46	52402	GRPA_T2	128	157	29	1.12	0.75	-0.37	-0.13	-0.15	0	0	0	0	0	0
7/29/2024 16:46	52401	GRPA_T2	112	116	4	1.05	0.86	-0.19	0	0	0	0	0	0	0	0
7/29/2024 16:46	52404	GRPA_T2	4	14	10	1.1	0.45	-0.65	0	0	0	0	0	0	0	0
7/29/2024 16:46	52403	GRPA_T2	118	184	66	1.52	1.43	-0.09	0	0	0	0	0	0	0	0
7/29/2024 16:47	52402	GRPA_T2	128	157	29	1.12	0.75	-0.37	-0.13	-0.15	0	0	0	0	0	0
7/29/2024 16:47	52404	GRPA_T2	4	14	10	1.1	0.45	-0.65	0	0	0	0	0	0	0	0
7/29/2024 16:47	52403	GRPA_T2	118	184	66	1.52	1.43	-0.09	0	0	0	0	0	0	0	0
7/29/2024 16:47	52401	GRPA_T2	112	116	4	1.05	0.86	-0.19	0	0	0	0	0	0	0	0
7/29/2024 16:53	60701	BREC_T1	1	0	-1	0.2	0	-0.2	-0.32	-0.32	2	2	0	1200	1200	0
7/29/2024 16:54	60701	BREC_T1	1	0	-1	0.2	0	-0.2	-0.32	-0.32	2	2	0	1200	1200	0
7/29/2024 16:55	20601	GRWO_T2	308	341	33	1.24	1.17	-0.07	1.16	1.17	0	0	0	0	0	0
7/29/2024 16:55	47403	PENS_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
7/29/2024 16:55	47401	PENS_T1	0	19	19	0	0.92	0.92	0.64	0.66	0	0	0	0	0	0
7/29/2024 16:55	47402	PENS_T1	2	1	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/29/2024 16:56	20403	ASHF_T2	2	9	7	0.9	0.23	-0.67	1.43	1.31	0	0	0	0	0	0
7/29/2024 16:56	45501	DERR_T2	3	19	16	0.27	0.4	0.13	0.9	0.9	2	2	0	1800	1800	0
7/29/2024 16:56	45502	DERR_T2	10	14	4	0.45	0.56	0.11	0	0	0	0	0	0	0	0
7/29/2024 16:56	60701	BREC_T1	1	0	-1	0.2	0	-0.2	-0.32	-0.32	2	2	0	1200	1200	0
7/29/2024 16:56	20401	ASHF_T2	5	6	1	1.94	1.56	-0.38	0	0	0	0	0	0	0	0
7/29/2024 16:56	20402	ASHF_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/29/2024 16:57	45501	DERR_T2	3	19	16	0.27	0.4	0.13	0.9	0.9	2	2	0	1800	1800	0
7/29/2024 16:57	45502	DERR_T2	10	14	4	0.45	0.56	0.11	0	0	0	0	0	0	0	0
7/29/2024 16:58	60701	BREC_T1	1	0	-1	0.2	0	-0.2	-0.64	-0.64	4	4	0	2400	2400	0
7/29/2024 17:00	45802	HEGI_T2	17	16	-1	0.79	0.38	-0.41	0.08	-0.11	2	2	0	1200	1200	0
7/29/2024 17:00	45502	DERR_T2	9	15	6	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
7/29/2024 17:00	45501	DERR_T2	15	25	10	0.45	0.63	0.18	0.9	0.9	2	2	0	1800	1800	0
7/29/2024 17:01	25402	LAHA_T2	0	0	0	0	0	0	-0.21	-0.39	0	0	0	0	0	0
7/29/2024 17:01	45802	HEGI_T2	17	16	-1	0.79	0.38	-0.41	0.08	-0.11	2	2	0	1200	1200	0
7/29/2024 17:03	52403	GRPA_T2	122	196	74	1.43	1.75	0.32	-0.16	-0.19	0	0	0	0	0	0
7/29/2024 17:03	52402	GRPA_T2	147	163	16	0.78	0.74	-0.04	0	0	0	0	0	0	0	0
7/29/2024 17:03	52401	GRPA_T2	97	137	40	0.84	1.2	0.36	0	0	0	0	0	0	0	0
7/29/2024 17:03	52404	GRPA_T2	6	17	11	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
7/29/2024 17:06	54201	PENN_T1	3	3	0	0.8	1.13	0.33	-1.48	-1.45	0	0	0	0	0	0
7/29/2024 17:06	54203	PENN_T1	5	5	0	0.46	0.34	-0.12	0	0	0	0	0	0	0	0
7/29/2024 17:07	24101	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 17:07	24102	EHAZ_T1	3	18	15	0.53	0.46	-0.07	0.32	0.28	0	0	0	0	0	0
7/29/2024 17:07	24105	EHAZ_T1	4	4	0	6.7	6.7	0	0	0	0	0	0	0	0	0
7/29/2024 17:08	24902	WHHA_T1	48	49	1	0.74	0.55	-0.19	0	0	0	0	0	0	0	0
7/29/2024 17:08	24901	WHHA_T1	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
7/29/2024 17:11	24902	WHHA_T1	48	49	1	0.74	0.55	-0.19	0	0	0	0	0	0	0	0
7/29/2024 17:11	24901	WHHA_T1	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
7/29/2024 17:25	41602	CLEV_T1	155	152	-3	1.13	0.65	-0.48	0	0	1	1	0	600	600	0
7/29/2024 17:39	44301	BEAV_T2	25	24	-1	0.54	0.78	0.24	1.23	0.32	2	2	0	1200	1200	0
7/29/2024 17:40	45302	WBER_T2	16	17	1	0.59	0.56	-0.03	1.58	1.52	0	0	0	0	0	0
7/29/2024 17:41	45302	WBER_T2	16	17	1	0.59	0.56	-0.03	1.58	1.52	0	0	0	0	0	0
7/29/2024 17:42	61701	ELIZ_T1	2	3	1	0.85	0.9	0.05	1.48	1.48	0	0	0	0	0	0
7/29/2024 17:42	61703	ELIZ_T1	1	1	0	0.9	1.4	0.5	0	0	0	0	0	0	0	0
7/29/2024 17:43	20401	ASHF_T2	6	5	-1	1.67	1.28	-0.39	0	0	0	0	0	0	0	0
7/29/2024 17:43	20403	ASHF_T2	1	2	1	0.7	0	-0.7	1.18	1.18	0	0	0	0	0	0
7/29/2024 17:43	20402	ASHF_T2	4	6	2	0.38	0	-0.38	0	0	0	0	0	0	0	0
7/29/2024 17:44	52403	GRPA_T2	164	211	47	1.88	1.53	-0.35	0	0	0	0	0	0	0	0
7/29/2024 17:44	44301	BEAV_T2	25	24	-1	0.54	0.78	0.24	0.62	0.16	1	1	0	600	600	0
7/29/2024 17:44	52404	GRPA_T2	13	18	5	0.49	0.38	-0.11	0	0	0	0	0	0	0	0
7/29/2024 17:44	52402	GRPA_T2	157	131	-26	0.75	0.56	-0.19	0	0	0	0	0	0	0	0
7/29/2024 17:44	52401	GRPA_T2	136	175	39	1.75	1.72	-0.03	-0.48	-0.47	0	0	0	0	0	0
7/29/2024 17:45	61701	ELIZ_T1	3	2	-1	1	1.3	0.3	1.48	1.48	0	0	0	0	0	0
7/29/2024 17:45	61703	ELIZ_T1	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
7/29/2024 17:46	61703	ELIZ_T1	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
7/29/2024 17:46	61701	ELIZ_T1	3	2	-1	1	1.3	0.3	1.48	1.48	0	0	0	0	0	0
7/29/2024 17:47	12304	LANA_T2	23	28	5	0.49	0.75	0.26	0	0	0	0	0	0	0	0
7/29/2024 17:47	12302	LANA_T2	0	2	2	0	0	0	-1.65	-1.7	3	3	0	2700	2700	0
7/29/2024 17:47	12305	LANA_T2	10	4	-6	0.54	0.3	-0.24	0	0	0	0	0	0	0	0
7/29/2024 17:47	12301	LANA_T2	3	2	-1	0.97	1.15	0.18	0	0	0	0	0	0	0	0
7/29/2024 17:47	15603	NSTR_T2	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
7/29/2024 17:48	12605	MACA_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 17:48	12601	MACA_T1	5	0	-5	0.26	0	-0.26	1.55	1.49	0	0	0	0	0	0
7/29/2024 17:48	12603	MACA_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/29/2024 17:48	12602	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 17:48	12606	MACA_T1	38	42	4	2.13	1.84	-0.29	0	0	0	0	0	0	0	0
7/29/2024 17:50	43304	WATS_T2	26	31	5	0.57	0.58	0.01	0	0	0	0	0	0	0	0
7/29/2024 17:50	43301	WATS_T2	0	0	0	0	0	0	0.02	0.06	1	1	0	900	900	0
7/29/2024 17:58	14605	SWHI_T1	5	9	4	0.26	0.57	0.31	0	0	0	0	0	0	0	0
7/29/2024 17:58	14601	SWHI_T1	16	22	6	0.69	0.3	-0.39	0	0	0	0	0	0	0	0
7/29/2024 17:58	14603	SWHI_T1	8	13	5	0.73	0.58	-0.15	-1.03	-1.03	2	2	0	1200	1200	0
7/29/2024 17:59	14603	SWHI_T1	8	13	5	0.73	0.58	-0.15	-1.03	-1.03	2	2	0	1200	1200	0
7/29/2024 17:59	14605	SWHI_T1	5	9	4	0.26	0.57	0.31	0	0	0	0	0	0	0	0
7/29/2024 17:59	14601	SWHI_T1	16	22	6	0.69	0.3	-0.39	0	0	0	0	0	0	0	0
7/29/2024 18:02	14603	SWHI_T1	13	14	1	0.71	0.58	-0.13	-1.03	-1.03	2	2	0	1200	1200	0
7/29/2024 18:02	14605	SWHI_T1	8	4	-4	0.51	0.43	-0.08	0	0	0	0	0	0	0	0
7/29/2024 18:02	14601	SWHI_T1	19	20	1	0.51	0.46	-0.05	0	0	0	0	0	0	0	0
7/29/2024 18:04	67703	WERN_T2	1	1	0	0.7	0	-0.7	-0.01	-0.01	1	1	0	900	900	0
7/29/2024 18:05	67703	WERN_T2	1	1	0	0.7	0	-0.7	-0.01	-0.01	1	1	0	900	900	0
7/29/2024 18:09	67703	WERN_T2	1	1	0	0.7	0	-0.7	-0.01	-0.01	1	1	0	900	900	0
7/29/2024 18:12	63804	HEMP_T1	1	1	0	7	6.8	-0.2	-1.02	0.22	0	0	0	0	0	0
7/29/2024 18:12	63803	HEMP_T1	1	3	2	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/29/2024 18:12	22002	BOHE_T1	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
7/29/2024 18:28	11102	EGYP_T1	5	15	10	1.48	1.55	0.07	0.55	0.58	0	0	0	0	0	0
7/29/2024 18:28	11101	EGYP_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/29/2024 18:28	11104	EGYP_T1	7	8	1	0.81	0.54	-0.27	0	0	0	0	0	0	0	0
7/29/2024 18:30	15204	SFAR_T2	11	4	-7	2.69	2.3	-0.39	0	0	0	0	0	0	0	0
7/29/2024 18:30	15203	SFAR_T2	1	2	1	0.3	0.1	-0.2	0	0	1	1	0	1200	1200	0
7/29/2024 18:33	46101	MACI_T2	0	0	0	0	0	0	-0.5	-0.5	1	1	0	1200	1200	0
7/29/2024 18:44	62606	ENGL_T1	9	13	4	1	0.92	-0.08	0	0	0	0	0	0	0	0
7/29/2024 18:44	62604	ENGL_T1	1	2	1	2.6	0.1	-2.5	0	0	0	0	0	0	0	0
7/29/2024 18:44	62607	ENGL_T1	1	1	0	1.1	1	-0.1	0.01	0.01	1	1	0	300	300	0
7/29/2024 18:45	52404	GRPA_T2	3	4	1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/29/2024 18:45	52403	GRPA_T2	99	163	64	2.21	1.39	-0.82	0	0	0	0	0	0	0	0
7/29/2024 18:45	52401	GRPA_T2	104	95	-9	1.36	0.65	-0.71	-0.54	-0.53	0	0	0	0	0	0
7/29/2024 18:45	52402	GRPA_T2	10	63	53	0.69	0.68	-0.01	0	0	0	0	0	0	0	0
7/29/2024 18:50	46001	BERW_T1	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
7/29/2024 18:52	46001	BERW_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
7/29/2024 18:54	44902	SCOT_T2	0	0	0	0	0	0	-0.39	-0.34	0	0	0	0	0	0
7/29/2024 19:00	53902	HALI_T2	1	1	0	3.8	4.1	0.3	0	0	0	0	0	0	0	0
7/29/2024 19:00	53901	HALI_T2	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
7/29/2024 19:03	64201	KINZ_T1	1	1	0	0.3	0.5	0.2	-0.64	-0.67	4	4	0	2100	2100	0
7/29/2024 19:03	64204	KINZ_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/29/2024 19:04	46102	MACI_T1	0	0	0	0	0	0	0.96	0.97	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/29/2024 19:06	52503	PROG_T2	0	0	0	0	0	0	0.28	0.21	1	1	0	900	900	0
7/29/2024 19:08	52503	PROG_T2	0	0	0	0	0	0	0.21	0.19	1	1	0	900	900	0
7/29/2024 19:11	45902	AUBU_T1	5	1	-4	0.43	0.5	0.07	0	0	0	0	0	0	0	0
7/29/2024 19:11	45901	AUBU_T1	0	0	0	0	0	0	0.82	0.78	0	0	0	0	0	0
7/29/2024 19:12	24901	WHHA_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
7/29/2024 19:12	24902	WHHA_T1	23	12	-11	0.78	0.74	-0.04	0	0	0	0	0	0	0	0
7/29/2024 19:20	13201	PALM_T1	5	6	1	2.28	3.1	0.82	0.02	0	0	0	0	0	0	0
7/29/2024 19:30	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
7/29/2024 19:30	11903	ETEX_T1	0	0	0	0	0	0	1.21	1.28	0	0	0	0	0	0
7/29/2024 19:31	53802	MBRG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 19:31	53803	MBRG_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
7/29/2024 19:41	22701	MINO_T1	0	0	0	0	0	0	-0.29	-0.3	1	1	0	600	600	0
7/29/2024 19:46	53502	EVIL_T2	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
7/29/2024 19:51	41902	REED_T1	103	109	6	0.64	0.57	-0.07	0	0	0	0	0	0	0	0
7/29/2024 19:51	41901	REED_T1	4	7	3	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
7/29/2024 19:51	41903	REED_T1	1	1	0	0.9	0.4	-0.5	0.57	0.66	1	1	0	1200	1200	0
7/29/2024 20:02	61701	ELIZ_T1	1	1	0	2.3	2.8	0.5	1.12	1.06	0	0	0	0	0	0
7/29/2024 20:18	22701	MINO_T1	0	0	0	0	0	0	-0.37	-0.4	1	1	0	600	600	0
7/29/2024 20:21	46504	LOHA_T1	2	2	0	0.65	0.85	0.2	0	0	0	0	0	0	0	0
7/29/2024 20:21	46506	LOHA_T1	0	1	1	0	0.2	0.2	-1.65	-1.66	2	2	0	2100	2100	0
7/29/2024 20:21	46501	LOHA_T1	4	3	-1	1.2	1	-0.2	0	0	0	0	0	0	0	0
7/29/2024 20:22	46504	LOHA_T1	2	2	0	0.65	0.85	0.2	0	0	0	0	0	0	0	0
7/29/2024 20:22	46506	LOHA_T1	0	1	1	0	0.2	0.2	-3.3	-3.33	4	4	0	4200	4200	0
7/29/2024 20:22	46501	LOHA_T1	4	3	-1	1.2	1	-0.2	0	0	0	0	0	0	0	0
7/29/2024 20:24	46504	LOHA_T1	2	2	0	0.65	0.85	0.2	0	0	0	0	0	0	0	0
7/29/2024 20:24	46501	LOHA_T1	4	3	-1	1.2	1	-0.2	0	0	0	0	0	0	0	0
7/29/2024 20:24	46506	LOHA_T1	0	1	1	0	0.2	0.2	-1.65	-1.66	2	2	0	2100	2100	0
7/29/2024 20:33	16402	MORO_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
7/29/2024 20:46	53502	EVIL_T2	0	0	0	0	0	0	0.07	-0.01	2	2	0	1200	1200	0
7/29/2024 21:11	42802	SELI_T1	0	0	0	0	0	0	-1.71	-1.76	1	1	0	900	900	0
7/29/2024 21:13	42802	SELI_T1	0	0	0	0	0	0	-1.71	-1.76	1	1	0	900	900	0
7/29/2024 22:01	24902	WHHA_T1	1	2	1	0.7	0	-0.7	0.95	0.91	0	0	0	0	0	0
7/29/2024 22:08	58003	WCAR_T1	1	1	0	1	0.7	-0.3	0.51	0.52	1	1	0	600	600	0
7/29/2024 22:08	25603	ARRO_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
7/29/2024 22:09	59101	WALK_T2	1	2	1	0.3	1.1	0.8	0.47	1.03	3	2	-1	1800	1200	-600
7/29/2024 22:10	61701	ELIZ_T1	1	1	0	3.1	3.8	0.7	0.94	0.92	0	0	0	0	0	0
7/29/2024 22:14	47001	HUGH_T2	3	3	0	6.47	7.63	1.16	-0.86	-0.95	0	0	0	0	0	0
7/29/2024 22:14	47002	HUGH_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/29/2024 22:15	61701	ELIZ_T1	1	1	0	3.4	3.8	0.4	0.94	0.92	0	0	0	0	0	0
7/29/2024 22:15	64302	LINC_T2	1	1	0	1.1	0.7	-0.4	1.43	1.41	0	0	0	0	0	0
7/29/2024 22:15	52403	GRPA_T2	68	26	-42	0.59	0.59	0	0	0	0	0	0	0	0	0
7/29/2024 22:15	52402	GRPA_T2	5	1	-4	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/29/2024 22:15	55101	WERT_T1	0	0	0	0	0	0	-2.39	-2.37	4	4	0	3300	3300	0
7/29/2024 22:15	14601	SWHI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
7/29/2024 22:15	52401	GRPA_T2	13	1	-12	0.59	0	-0.59	-0.11	-0.14	0	0	0	0	0	0
7/29/2024 22:16	17002	RIRO_T2	1	1	0	1.2	1.3	0.1	0.6	0.53	0	0	0	0	0	0
7/29/2024 22:16	52403	GRPA_T2	68	26	-42	0.59	0.59	0	-0.12	-0.12	0	0	0	0	0	0
7/29/2024 22:16	52402	GRPA_T2	5	1	-4	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/29/2024 22:16	52404	GRPA_T2	0	0	0	0	0	0	-0.49	-0.53	0	0	0	0	0	0
7/29/2024 22:16	52401	GRPA_T2	13	1	-12	0.59	0	-0.59	0	0	0	0	0	0	0	0
7/29/2024 22:17	43102	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/29/2024 22:17	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:17	43106	SMIL_T2	0	0	0	0	0	0	-1.26	-1.22	2	2	0	2400	2400	0
7/29/2024 22:17	42301	MOWR_T2	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
7/29/2024 22:17	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/29/2024 22:17	48302	ORWI_T2	2	2	0	0.2	0.35	0.15	-0.36	-0.41	0	0	0	0	0	0
7/29/2024 22:18	10801	CHHI_T1	0	0	0	0	0	0	-1.48	-1.49	3	3	0	2100	2100	0
7/29/2024 22:18	56504	ROCK_T2	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
7/29/2024 22:18	23202	HIRU_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
7/29/2024 22:18	56501	ROCK_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
7/29/2024 22:18	52404	GRPA_T2	0	0	0	0	0	0	-0.49	-0.53	0	0	0	0	0	0
7/29/2024 22:18	52401	GRPA_T2	13	1	-12	0.59	0	-0.59	0	0	0	0	0	0	0	0
7/29/2024 22:18	59101	WALK_T2	1	2	1	1.1	1.25	0.15	0.47	1.03	3	2	-1	1800	1200	-600
7/29/2024 22:18	21206	ECAR_T2	1	1	0	8	8.2	0.2	0.38	0.38	0	0	0	0	0	0
7/29/2024 22:18	21204	ECAR_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/29/2024 22:18	55002	NEWP_T1	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
7/29/2024 22:18	52403	GRPA_T2	68	26	-42	0.59	0.59	0	-0.12	-0.12	0	0	0	0	0	0
7/29/2024 22:18	55001	NEWP_T1	0	0	0	0	0	0	-0.33	-0.35	1	1	0	600	600	0
7/29/2024 22:18	52402	GRPA_T2	5	1	-4	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/29/2024 22:18	57401	SPAN_T1	0	0	0	0	0	0	-0.65	-0.46	1	1	0	600	600	0
7/29/2024 22:18	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:19	15604	NSTR_T1	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
7/29/2024 22:19	56501	ROCK_T2	0	4	4	0	0.18	0.18	-1.71	-1.71	0	0	0	0	0	0
7/29/2024 22:19	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:19	57101	SPHI_T2	6	6	0	0.38	0.73	0.35	0	0	0	0	0	0	0	0
7/29/2024 22:19	57106	SPHI_T2	3	3	0	0.8	1.13	0.33	0	0	0	0	0	0	0	0
7/29/2024 22:19	57104	SPHI_T2	0	1	1	0	0	0	-0.98	-1.03	1	1	0	900	900	0
7/29/2024 22:19	59101	WALK_T2	1	2	1	1.1	1.25	0.15	0.47	1.03	3	2	-1	1800	1200	-600
7/29/2024 22:19	57403	SPAN_T1	0	0	0	0	0	0	-0.65	-0.46	1	1	0	600	600	0
7/29/2024 22:19	55101	WERT_T1	0	0	0	0	0	0	-2.39	-2.37	4	4	0	3300	3300	0
7/29/2024 22:19	22002	BOHE_T1	0	0	0	0	0	0	0.46	0.43	0	0	0	0	0	0
7/29/2024 22:19	56504	ROCK_T2	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
7/29/2024 22:19	12701	MACU_T1	0	0	0	0	0	0	-0.83	-0.87	1	1	0	1200	1200	0
7/29/2024 22:19	65001	NEFF_T2	0	0	0	0	0	0	-0.2	-0.25	1	1	0	1200	1200	0
7/29/2024 22:20	66902	SHIL_T2	14	75	61	0.12	0.18	0.06	-0.89	-0.9	0	0	0	0	0	0
7/29/2024 22:20	65802	RTWN_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
7/29/2024 22:20	56501	ROCK_T2	0	4	4	0	0.18	0.18	-1.71	-1.71	0	0	0	0	0	0
7/29/2024 22:20	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.11	0	0	0	0	0	0
7/29/2024 22:20	63804	HEMP_T1	1	1	0	6.8	6.6	-0.2	-0.05	-0.09	0	0	0	0	0	0
7/29/2024 22:20	15601	NSTR_T2	3	3	0	0.43	0.47	0.04	0	0	0	0	0	0	0	0
7/29/2024 22:20	13904	SEID_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/29/2024 22:20	15603	NSTR_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
7/29/2024 22:20	45901	AUBU_T1	0	0	0	0	0	0	1.86	1.83	0	0	0	0	0	0
7/29/2024 22:20	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:20	12302	LANA_T2	0	0	0	0	0	0	-2.12	-2.2	3	3	0	2700	2700	0
7/29/2024 22:20	11102	EGYP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/29/2024 22:20	66901	SHIL_T2	222	284	62	0.31	0.43	0.12	0	0	0	0	0	0	0	0
7/29/2024 22:20	11103	EGYP_T1	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
7/29/2024 22:20	66903	SHIL_T2	0	17	17	0	0.21	0.21	0	0	0	0	0	0	0	0
7/29/2024 22:20	57401	SPAN_T1	0	0	0	0	0	0	-0.65	-0.46	1	1	0	600	600	0
7/29/2024 22:20	13905	SEID_T1	0	0	0	0	0	0	-0.58	-0.58	1	1	0	1200	1200	0
7/29/2024 22:20	12305	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:21	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/29/2024 22:21	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:21	61701	ELIZ_T1	1	1	0	3.4	3.8	0.4	0	0	0	0	0	0	0	0
7/29/2024 22:21	55001	NEWP_T1	0	0	0	0	0	0	-0.99	-1.05	3	3	0	1800	1800	0
7/29/2024 22:21	64202	KINZ_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/29/2024 22:21	55002	NEWP_T1	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
7/29/2024 22:21	53501	EVIL_T2	1	0	-1	0.8	0	-0.8	-0.96	-0.92	2	2	0	1200	1200	0
7/29/2024 22:21	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:21	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
7/29/2024 22:21	15702	TANN_T2	0	0	0	0	0	0	-0.29	-0.14	0	0	0	0	0	0
7/29/2024 22:21	61102	BERK_T5	0	0	0	0	0	0	1.25	1.04	2	2	0	600	600	0
7/29/2024 22:21	64201	KINZ_T1	1	5	4	1	0.4	-0.6	-0.36	-0.4	3	3	0	1500	1500	0
7/29/2024 22:21	67605	WARW_T1	1	3	2	1	0.5	-0.5	0	0	0	0	0	0	0	0
7/29/2024 22:21	64904	MILL_T1	0	0	0	0	0	0	0.44	0.31	0	0	0	0	0	0
7/29/2024 22:21	15604	NSTR_T1	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
7/29/2024 22:21	56501	ROCK_T2	0	4	4	0	0.18	0.18	-3.42	-3.42	0	0	0	0	0	0
7/29/2024 22:21	64204	KINZ_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
7/29/2024 22:21	11102	EGYP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/29/2024 22:21	57401	SPAN_T1	0	0	0	0	0	0	-0.65	-0.46	1	1	0	600	600	0
7/29/2024 22:21	56504	ROCK_T2	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
7/29/2024 22:21	42301	MOWR_T2	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
7/29/2024 22:21	11103	EGYP_T1	0	0	0	0	0	0	0.67	0.63	0	0	0	0	0	0
7/29/2024 22:21	25402	LAHA_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
7/29/2024 22:21	67603	WARW_T1	0	0	0	0	0	0	-0.32	-0.37	0	0	0	0	0	0
7/29/2024 22:21	64101	REFR_T1	0	0	0	0	0	0	-0.23	-0.43	0	0	0	0	0	0
7/29/2024 22:21	48301	ORWI_T1	2	2	0	2.3	2.4	0.1	0.8	0.7	0	0	0	0	0	0
7/29/2024 22:21	61703	ELIZ_T1	0	0	0	0	0	0	-2.5	-2.55	2	2	0	2100	2100	0
7/29/2024 22:22	55101	WERT_T1	0	0	0	0	0	0	-4.74	-4.81	8	8	0	6600	6600	0
7/29/2024 22:22	64204	KINZ_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
7/29/2024 22:22	16103	BING_T2	0	0	0	0	0	0	-0.48	-0.47	1	1	0	600	600	0
7/29/2024 22:22	58401	MORO_T1	0	0	0	0	0	0	-1.89	-1.89	2	2	0	1200	1200	0
7/29/2024 22:22	52402	GRPA_T2	5	1	-4	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/29/2024 22:22	52002	LING_T2	0	0	0	0	0	0	-0.14	-0.19	0	0	0	0	0	0
7/29/2024 22:22	10805	CHHI_T2	2	2	0	4.5	8.4	3.9	-0.56	-0.64	1	1	0	600	600	0
7/29/2024 22:22	66903	SHIL_T2	0	17	17	0	0.21	0.21	0	0	0	0	0	0	0	0
7/29/2024 22:22	52503	PROG_T2	0	0	0	0	0	0	-0.13	-0.16	1	1	0	900	900	0
7/29/2024 22:22	66901	SHIL_T2	222	284	62	0.31	0.43	0.12	-1.73	-1.78	1	1	0	1200	1200	0
7/29/2024 22:22	64202	KINZ_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/29/2024 22:22	66902	SHIL_T2	14	75	61	0.12	0.18	0.06	0	0	0	0	0	0	0	0
7/29/2024 22:22	52401	GRPA_T2	13	1	-12	0.59	0	-0.59	-0.14	-0.16	0	0	0	0	0	0
7/29/2024 22:22	57401	SPAN_T1	0	0	0	0	0	0	-0.46	-0.55	1	1	0	600	600	0
7/29/2024 22:22	54203	PENN_T1	18	19	1	0.51	0.76	0.25	0	0	0	0	0	0	0	0
7/29/2024 22:22	64201	KINZ_T1	1	5	4	1	0.4	-0.6	-0.73	-0.79	6	6	0	3000	3000	0
7/29/2024 22:22	54205	PENN_T1	0	12	12	0	0.1	0.1	0	0	0	0	0	0	0	0
7/29/2024 22:22	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.21	0	0	0	0	0	0
7/29/2024 22:22	54201	PENN_T1	41	69	28	0.45	0.42	-0.03	-1.61	-1.69	0	0	0	0	0	0
7/29/2024 22:22	56501	ROCK_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
7/29/2024 22:22	13503	MCMI_T2	60	100	40	0.27	0.33	0.06	-1.47	-1.45	0	0	0	0	0	0
7/29/2024 22:22	52403	GRPA_T2	68	26	-42	0.59	0.59	0	0	0	0	0	0	0	0	0
7/29/2024 22:22	52004	LING_T2	2	2	0	5.05	5.45	0.4	0.18	0.19	0	0	0	0	0	0
7/29/2024 22:22	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:22	56504	ROCK_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
7/29/2024 22:23	67605	WARW_T1	1	3	2	1	0.5	-0.5	-0.85	-0.93	0	0	0	0	0	0
7/29/2024 22:23	61701	ELIZ_T1	1	1	0	3.4	3.8	0.4	0	0	0	0	0	0	0	0
7/29/2024 22:23	61501	EPET_T2	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
7/29/2024 22:23	60701	BREC_T1	0	0	0	0	0	0	-0.1	-0.17	1	1	0	600	600	0
7/29/2024 22:23	23401	HONE_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
7/29/2024 22:23	56501	ROCK_T2	0	4	4	0	0.18	0.18	-1.71	-1.73	0	0	0	0	0	0
7/29/2024 22:23	48301	ORWI_T1	2	2	0	2.3	2.4	0.1	0.7	0.75	0	0	0	0	0	0
7/29/2024 22:23	52403	GRPA_T2	68	26	-42	0.59	0.59	0	0	0	0	0	0	0	0	0
7/29/2024 22:23	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.21	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/29/2024 22:23	46102	MACI_T1	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
7/29/2024 22:23	25503	MADI_T1	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
7/29/2024 22:23	52402	GRPA_T2	5	1	-4	0.8	0	-0.8	-0.45	-0.36	0	0	0	0	0	0
7/29/2024 22:23	24901	WHHA_T1	0	0	0	0	0	0	-0.51	0.71	0	0	0	0	0	0
7/29/2024 22:23	52401	GRPA_T2	13	1	-12	0.59	0	-0.59	0	0	0	0	0	0	0	0
7/29/2024 22:23	47101	MARL_T1	28	25	-3	1.48	1.07	-0.41	-0.38	-0.35	0	0	0	0	0	0
7/29/2024 22:23	64305	LINC_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/29/2024 22:23	61506	EPET_T2	0	0	0	0	0	0	-0.42	-0.42	1	1	0	900	900	0
7/29/2024 22:23	64303	LINC_T1	0	0	0	0	0	0	0.17	0.13	0	0	0	0	0	0
7/29/2024 22:23	24902	WHHA_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/29/2024 22:23	40101	HUNT_T2	14	7	-7	0.4	0.1	-0.3	-1.22	-1.23	0	0	0	0	0	0
7/29/2024 22:23	61703	ELIZ_T1	0	0	0	0	0	0	-2.5	-2.55	2	2	0	2100	2100	0
7/29/2024 22:23	42802	SELI_T1	0	0	0	0	0	0	-1.85	-1.87	1	1	0	900	900	0
7/29/2024 22:24	20601	GRWO_T2	11	21	10	0.49	0.53	0.04	0.91	0.89	0	0	0	0	0	0
7/29/2024 22:24	51904	COPA_T1	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
7/29/2024 22:24	52501	PROG_T1	0	0	0	0	0	0	-0.74	-0.73	1	1	0	300	300	0
7/29/2024 22:24	46503	LOHA_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
7/29/2024 22:24	51901	COPA_T1	0	0	0	0	0	0	-0.77	-0.89	0	0	0	0	0	0
7/29/2024 22:24	67804	WLAN_T1	6	9	3	0.33	0.37	0.04	0	0	0	0	0	0	0	0
7/29/2024 22:24	52403	GRPA_T2	68	26	-42	0.59	0.59	0	0	0	0	0	0	0	0	0
7/29/2024 22:24	52401	GRPA_T2	13	1	-12	0.59	0	-0.59	0	0	0	0	0	0	0	0
7/29/2024 22:24	41602	CLEV_T1	1	0	-1	0.3	0	-0.3	0	0	1	1	0	600	600	0
7/29/2024 22:24	29402	BELT_T1	1	1	0	8.8	9.2	0.4	0	0	0	0	0	0	0	0
7/29/2024 22:24	45303	WBER_T2	5	2	-3	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
7/29/2024 22:24	53803	MBRG_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
7/29/2024 22:24	46504	LOHA_T1	2	2	0	0.45	0.85	0.4	0	0	0	0	0	0	0	0
7/29/2024 22:24	42201	SHEN_T2	0	0	0	0	0	0	0.27	0.37	1	1	0	600	600	0
7/29/2024 22:24	53903	HALI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/29/2024 22:24	46506	LOHA_T1	162	267	105	0.3	0.44	0.14	0	0	0	0	0	0	0	0
7/29/2024 22:24	52002	LING_T2	0	0	0	0	0	0	-0.14	-0.19	0	0	0	0	0	0
7/29/2024 22:24	59402	RFLD_T2	0	0	0	0	0	0	-0.62	-0.64	1	1	0	450	450	0
7/29/2024 22:24	11104	EGYP_T1	0	0	0	0	0	0	0.57	0.53	0	0	0	0	0	0
7/29/2024 22:24	43102	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/29/2024 22:24	42902	MIDD_T2	0	0	0	0	0	0	-0.66	-0.71	1	1	0	600	600	0
7/29/2024 22:24	45302	WBER_T2	0	0	0	0	0	0	1.39	1.35	0	0	0	0	0	0
7/29/2024 22:24	15702	TANN_T2	0	0	0	0	0	0	-0.07	-0.15	0	0	0	0	0	0
7/29/2024 22:24	16402	MOPO_T1	0	0	0	0	0	0	0.38	0.3	0	0	0	0	0	0
7/29/2024 22:24	12701	MACU_T1	0	0	0	0	0	0	-1.74	-1.81	2	2	0	2400	2400	0
7/29/2024 22:24	56501	ROCK_T2	0	4	4	0	0.18	0.18	-1.71	-1.73	0	0	0	0	0	0
7/29/2024 22:24	52004	LING_T2	2	0	-2	5.05	5.45	0.4	0	0	0	0	0	0	0	0
7/29/2024 22:24	54701	NEBL_T1	0	1	1	0	0.8	0.8	0	0	1	1	0	600	600	0
7/29/2024 22:24	52402	GRPA_T2	5	1	-4	0.8	0	-0.8	-0.45	-0.36	0	0	0	0	0	0
7/29/2024 22:24	53901	HALI_T2	0	0	0	0	0	0	-1.02	-0.99	0	0	0	0	0	0
7/29/2024 22:24	44301	BEAV_T2	0	0	0	0	0	0	-0.09	-0.15	1	1	0	600	600	0
7/29/2024 22:24	61102	BERK_T5	0	0	0	0	0	0	0.62	0.52	1	1	0	300	300	0
7/29/2024 22:24	46101	MACI_T2	0	0	0	0	0	0	0.6	0.73	0	0	0	0	0	0
7/29/2024 22:24	61703	ELIZ_T1	0	0	0	0	0	0	-2.5	-2.55	2	2	0	2100	2100	0
7/29/2024 22:24	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.21	0	0	0	0	0	0
7/29/2024 22:24	43104	SMIL_T2	0	0	0	0	0	0	-0.5	-0.47	1	1	0	300	300	0
7/29/2024 22:24	13503	MCMI_T2	60	100	40	0.27	0.33	0.06	-0.74	-0.73	0	0	0	0	0	0
7/29/2024 22:24	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
7/29/2024 22:24	11102	EGYP_T1	1	0	-1	0.3	0	-0.3	0.08	0.08	0	0	0	0	0	0
7/29/2024 22:24	67803	WLAN_T1	0	0	0	0	0	0	-0.92	-0.98	0	0	0	0	0	0
7/29/2024 22:24	55101	WERT_T1	0	0	0	0	0	0	-2.37	-2.41	4	4	0	3300	3300	0
7/29/2024 22:24	53902	HALI_T2	1	1	0	3.9	4.5	0.6	0	0	0	0	0	0	0	0
7/29/2024 22:24	42301	MOWR_T2	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
7/29/2024 22:24	60701	BREC_T1	0	0	0	0	0	0	-0.1	-0.17	1	1	0	600	600	0
7/29/2024 22:24	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/29/2024 22:24	61701	ELIZ_T1	1	1	0	3.4	3.8	0.4	0	0	0	0	0	0	0	0
7/29/2024 22:24	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/29/2024 22:25	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/29/2024 22:25	62606	ENGL_T1	9	12	3	1.61	0.97	-0.64	0	0	0	0	0	0	0	0
7/29/2024 22:25	57702	PAXT_T1	0	0	0	0	0	0	-0.25	-0.31	0	0	0	0	0	0
7/29/2024 22:25	53601	DALM_T2	1	1	0	0.2	0.2	0	-0.27	-0.09	1	1	0	900	900	0
7/29/2024 22:25	29402	BELT_T1	1	1	0	8.8	9.2	0.4	0	0	0	0	0	0	0	0
7/29/2024 22:25	50701	SMEC_T1	0	0	0	0	0	0	-1.05	-1.06	1	1	0	1200	1200	0
7/29/2024 22:25	60101	COCA_T1	0	0	0	0	0	0	0.77	0.74	0	0	0	0	0	0
7/29/2024 22:25	51003	NHAR_T1	3	4	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/29/2024 22:25	20601	GRWO_T2	11	21	10	0.49	0.53	0.04	0.91	0.89	0	0	0	0	0	0
7/29/2024 22:25	47401	PENS_T1	0	0	0	0	0	0	0.28	0.38	0	0	0	0	0	0
7/29/2024 22:25	53501	EVIL_T2	1	0	-1	0.8	0	-0.8	-0.92	-0.95	2	2	0	1200	1200	0
7/29/2024 22:25	47402	PENS_T1	2	0	-2	0.95	0	-0.95	0	0	0	0	0	0	0	0
7/29/2024 22:25	51002	NHAR_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
7/29/2024 22:25	67804	WLAN_T1	6	9	3	0.33	0.37	0.04	0	0	0	0	0	0	0	0
7/29/2024 22:25	46301	ROHR_T1	0	131	131	0	0.31	0.31	0.39	0.38	0	0	0	0	0	0
7/29/2024 22:25	10805	CHHI_T2	2	2	0	4.5	8.4	3.9	-0.56	-0.64	1	1	0	600	600	0
7/29/2024 22:25	52403	GRPA_T2	68	26	-42	0.59	0.59	0	-0.12	-0.14	0	0	0	0	0	0
7/29/2024 22:25	64201	KINZ_T1	1	5	4	1	0.4	-0.6	-0.36	-0.4	3	3	0	1500	1500	0
7/29/2024 22:25	67803	WLAN_T1	0	0	0	0	0	0	-0.92	-0.98	0	0	0	0	0	0
7/29/2024 22:25	65601	QVIL_T2	2	6	4	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
7/29/2024 22:25	65604	QVIL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/29/2024 22:25	65603	QVIL_T2	0	1	1	0	0.1	0.1	0.48	0.44	0	0	0	0	0	0
7/29/2024 22:25	61102	BERK_T5	0	0	0	0	0	0	1.25	1.04	2	2	0	600	600	0
7/29/2024 22:25	14603	SWHI_T1	0	0	0	0	0	0	-1.39	-1.42	2	2	0	1200	1200	0
7/29/2024 22:25	52401	GRPA_T2	13	1	-12	0.59	0	-0.59	0	0	0	0	0	0	0	0
7/29/2024 22:25	43103	SMIL_T2	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
7/29/2024 22:25	64202	KINZ_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/29/2024 22:25	52004	LING_T2	2	2	0	5.05	5.45	0.4	0	0	0	0	0	0	0	0
7/29/2024 22:25	46302	ROHR_T1	2	5	3	2.05	1.46	-0.59	0	0	0	0	0	0	0	0
7/29/2024 22:25	22102	EDEL_T1	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
7/29/2024 22:25	67602	WARW_T2	0	0	0	0	0	0	1.09	1.06	2	2	0	1500	1500	0
7/29/2024 22:25	62607	ENGL_T1	1	1	0	1.1	0.4	-0.7	-0.2	-0.24	1	1	0	300	300	0
7/29/2024 22:25	43102	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/29/2024 22:25	42701	AUGU_T1	4	3	-1	0.98	0.9	-0.08	0	0	2	2	0	1800	1800	0
7/29/2024 22:25	56501	ROCK_T2	0	4	4	0	0.18	0.18	-3.42	-3.46	0	0	0	0	0	0
7/29/2024 22:25	16102	BING_T2	0	0	0	0	0	0	-0.54	-0.53	1	1	0	1200	1200	0
7/29/2024 22:25	14702	TREX_T2	0	0	0	0	0	0	2.48	2.35	0	0	0	0	0	0
7/29/2024 22:25	64204	KINZ_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
7/29/2024 22:25	52402	GRPA_T2	5	1	-4	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/29/2024 22:25	60701	BREC_T1	0	0	0	0	0	0	-0.1	-0.17	1	1	0	600	600	0
7/29/2024 22:25	52002	LING_T2	0	0	0	0	0	0	-0.14	-0.19	0	0	0	0	0	0
7/29/2024 22:25	51004	NHAR_T1	1	1	0	6.9	6.6	-0.3	-0.69	-0.69	0	0	0	0	0	0
7/29/2024 22:25	48902	FOSP_T2	0	0	0	0	0	0	0.19	0.16	0	0	0	0	0	0
7/29/2024 22:26	56504	ROCK_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
7/29/2024 22:26	12606	MACA_T1	16	23	7	0.68	0.33	-0.35	0	0	0	0	0	0	0	0
7/29/2024 22:26	64302	LINC_T2	1	1	0	1.1	0.7	-0.4	1.41	1.38	0	0	0	0	0	0
7/29/2024 22:26	56501	ROCK_T2	0	4	4	0	0.18	0.18	-3.42	-3.46	0	0	0	0	0	0
7/29/2024 22:26	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:26	12602	MACA_T1	14	6	-8	0.17	0.17	0	0	0	0	0	0	0	0	0
7/29/2024 22:26	44302	BEAV_T2	0	0	0	0	0	0	-0.87	-0.86	1	1	0	1200	1200	0
7/29/2024 22:26	12601	MACA_T1	0	0	0	0	0	0	1.27	1.24	0	0	0	0	0	0
7/29/2024 22:26	59402	RFLD_T2	0	0	0	0	0	0	-0.62	-0.64	1	1	0	450	450	0
7/29/2024 22:26	60201	ATGL_T2	0	0	0	0	0	0	1.04	0.93	1	1	0	300	300	0
7/29/2024 22:26	53501	EVIL_T2	1	0	-1	0.8	0	-0.8	-0.92	-0.95	2	2	0	1200	1200	0
7/29/2024 22:26	65904	SAKR_T2	0	0	0	0	0	0	-1.25	-1.26	3	3	0	1500	1500	0
7/29/2024 22:26	61102	BERK_T5	0	0	0	0	0	0	1.25	1.04	2	2	0	600	600	0
7/29/2024 22:26	25603	ARRO_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
7/29/2024 22:26	60502	NMAN_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
7/29/2024 22:26	61701	ELIZ_T1	1	1	0	3.4	3.8	0.4	0	0	0	0	0	0	0	0
7/29/2024 22:26	65901	SAKR_T2	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
7/29/2024 22:26	46001	BERW_T1	0	0	0	0	0	0	1.21	1.17	0	0	0	0	0	0
7/29/2024 22:26	51002	NHAR_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
7/29/2024 22:26	67602	WARW_T2	0	0	0	0	0	0	1.09	1.06	2	2	0	1500	1500	0
7/29/2024 22:26	58401	MORO_T1	0	0	0	0	0	0	-1.89	-1.89	2	2	0	1200	1200	0
7/29/2024 22:26	48301	ORWI_T1	2	2	0	2.3	2.4	0.1	0.7	0.75	0	0	0	0	0	0
7/29/2024 22:26	58402	MORO_T1	0	0	0	0	0	0	-0.75	0.07	4	3	-1	2850	1950	-900
7/29/2024 22:26	12701	MACU_T1	0	0	0	0	0	0	-0.87	-0.91	1	1	0	1200	1200	0
7/29/2024 22:26	10901	COOP_T2	0	0	0	0	0	0	-0.22	-0.28	1	1	0	1200	1200	0
7/29/2024 22:26	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.21	0	0	0	0	0	0
7/29/2024 22:26	64305	LINC_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
7/29/2024 22:26	20403	ASHF_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
7/29/2024 22:26	53601	DALM_T2	1	1	0	0.2	0.2	0	-0.27	-0.09	1	1	0	900	900	0
7/29/2024 22:26	47402	PENS_T1	2	0	-2	0.95	0	-0.95	0	0	0	0	0	0	0	0
7/29/2024 22:26	47401	PENS_T1	0	0	0	0	0	0	0.28	0.38	0	0	0	0	0	0
7/29/2024 22:26	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:26	60101	COCA_T1	0	0	0	0	0	0	0.77	0.74	0	0	0	0	0	0
7/29/2024 22:26	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/29/2024 22:26	64303	LINC_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
7/29/2024 22:26	51004	NHAR_T1	1	1	0	6.9	6.6	-0.3	-1.38	-1.38	0	0	0	0	0	0
7/29/2024 22:26	45802	HEGI_T2	1	10	9	0.1	0.32	0.22	-0.09	-0.13	2	2	0	1200	1200	0
7/29/2024 22:26	61703	ELIZ_T1	0	0	0	0	0	0	-2.5	-2.55	2	2	0	2100	2100	0
7/29/2024 22:26	51003	NHAR_T1	3	4	1	0.2	0	-0.2	-2.16	-2.09	1	1	0	1200	1200	0
7/29/2024 22:27	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:27	64305	LINC_T1	1	1	0	0.7	0.4	-0.3	-0.02	-0.15	0	0	0	0	0	0
7/29/2024 22:27	52401	GRPA_T2	13	1	-12	0.59	0	-0.59	0	0	0	0	0	0	0	0
7/29/2024 22:27	14403	SSLA_T1	1	0	-1	0.2	0	-0.2	1.05	1.02	0	0	0	0	0	0
7/29/2024 22:27	53501	EVIL_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/29/2024 22:27	42701	AUGU_T1	4	3	-1	0.98	0.9	-0.08	0	0	2	2	0	1800	1800	0
7/29/2024 22:27	55101	WERT_T1	0	0	0	0	0	0	-2.37	-2.41	4	4	0	3300	3300	0
7/29/2024 22:27	58401	MORO_T1	0	0	0	0	0	0	-1.89	-1.89	2	2	0	1200	1200	0
7/29/2024 22:27	42903	MIDD_T2	0	0	0	0	0	0	-0.95	-0.98	1	1	0	1200	1200	0
7/29/2024 22:27	57401	SPAN_T1	0	0	0	0	0	0	-0.46	-0.55	1	1	0	600	600	0
7/29/2024 22:27	25603	ARRO_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
7/29/2024 22:27	52402	GRPA_T2	5	1	-4	0.8	0	-0.8	-0.45	-0.36	0	0	0	0	0	0
7/29/2024 22:27	43103	SMIL_T2	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
7/29/2024 22:27	64201	KINZ_T1	1	5	4	1	0.4	-0.6	0	0	0	0	0	0	0	0
7/29/2024 22:27	11804	FRAN_T1	25	25	0	0.53	0.38	-0.15	0.45	0.4	0	0	0	0	0	0
7/29/2024 22:27	64203	KINZ_T1	0	0	0	0	0	0	0.34	0.87	1	0	-1	600	0	-600
7/29/2024 22:27	45502	DERR_T2	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
7/29/2024 22:27	61301	EARL_T1	0	0	0	0	0	0	-1.29	-1.32	2	2	0	1800	1800	0
7/29/2024 22:27	67602	WARW_T2	0	0	0	0	0	0	1.09	1.06	2	2	0	1500	1500	0
7/29/2024 22:27	43304	WATS_T2	13	8	-5	0.47	0.6	0.13	0	0	0	0	0	0	0	0
7/29/2024 22:27	43102	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/29/2024 22:27	53502	EVIL_T2	0	0	0	0	0	0	-0.26	-0.34	4	4	0	2400	2400	0
7/29/2024 22:27	43302	WATS_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/29/2024 22:27	43301	WATS_T2	1	1	0	0.6	0.5	-0.1	-0.29	-0.32	1	1	0	900	900	0
7/29/2024 22:27	64204	KINZ_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
7/29/2024 22:27	60101	CDCA_T1	0	0	0	0	0	0	0.77	0.74	0	0	0	0	0	0
7/29/2024 22:27	10801	CHHI_T1	0	0	0	0	0	0	-1.49	-1.57	3	3	0	2100	2100	0
7/29/2024 22:27	14702	TREX_T2	0	0	0	0	0	0	1.24	1.18	0	0	0	0	0	0
7/29/2024 22:27	52403	GRPA_T2	68	26	-42	0.59	0.59	0	0	0	0	0	0	0	0	0
7/29/2024 22:27	10805	CHHI_T2	2	2	0	4.5	8.4	3.9	-0.56	-0.64	1	1	0	600	600	0
7/29/2024 22:27	40101	HUNT_T2	14	7	-7	0.4	0.1	-0.3	-1.22	-1.23	0	0	0	0	0	0
7/29/2024 22:27	64202	KINZ_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
7/29/2024 22:27	46101	MACI_T2	0	0	0	0	0	0	0.6	0.73	0	0	0	0	0	0
7/29/2024 22:27	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/29/2024 22:27	61304	EARL_T1	17	21	4	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
7/29/2024 22:27	67605	WARW_T1	1	3	2	1	0.5	-0.5	-0.85	-0.93	0	0	0	0	0	0
7/29/2024 22:27	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:27	20403	ASHF_T2	0	0	0	0	0	0	1.22	1.2	0	0	0	0	0	0
7/29/2024 22:27	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.21	0	0	0	0	0	0
7/29/2024 22:28	40602	PIGR_T1	2	1	-1	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
7/29/2024 22:28	47402	PENS_T1	2	0	-2	0.95	0	-0.95	0	0	0	0	0	0	0	0
7/29/2024 22:28	67605	WARW_T1	1	3	2	1	0.5	-0.5	-0.85	-0.93	0	0	0	0	0	0
7/29/2024 22:28	47401	PENS_T1	0	0	0	0	0	0	0.28	0.38	0	0	0	0	0	0
7/29/2024 22:28	58401	MORO_T1	0	0	0	0	0	0	-1.89	-1.89	2	2	0	1200	1200	0
7/29/2024 22:28	46302	ROHR_T1	2	5	3	2.05	1.46	-0.59	0.34	0.36	0	0	0	0	0	0
7/29/2024 22:28	44301	BEAV_T2	0	0	0	0	0	0	-0.09	-0.15	1	1	0	600	600	0
7/29/2024 22:28	60701	BREC_T1	0	0	0	0	0	0	-0.19	-0.34	2	2	0	1200	1200	0
7/29/2024 22:28	42701	AUGU_T1	4	3	-1	0.98	0.9	-0.08	0	0	2	2	0	1800	1800	0
7/29/2024 22:28	46301	ROHR_T1	0	131	131	0	0.31	0.31	0	0	0	0	0	0	0	0
7/29/2024 22:28	42201	SHEN_T2	0	0	0	0	0	0	0.27	0.37	1	1	0	600	600	0
7/29/2024 22:28	46203	DANV_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
7/29/2024 22:28	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.21	0	0	0	0	0	0
7/29/2024 22:28	40603	PIGR_T1	11	6	-5	0.35	0	-0.35	0.63	0.61	0	0	0	0	0	0
7/29/2024 22:28	43202	MVIL_T2	0	53	53	0	0.37	0.37	-0.53	-0.53	0	0	0	0	0	0
7/29/2024 22:28	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:28	47101	MARL_T1	28	25	-3	1.48	1.07	-0.41	-0.38	-0.35	0	0	0	0	0	0
7/29/2024 22:28	40101	HUNT_T2	14	7	-7	0.4	0.1	-0.3	-2.44	-2.46	0	0	0	0	0	0
7/29/2024 22:28	42802	SELI_T1	0	0	0	0	0	0	-1.85	-1.87	1	1	0	900	900	0
7/29/2024 22:28	67602	WARW_T2	0	0	0	0	0	0	1.09	1.06	2	2	0	1500	1500	0
7/29/2024 22:28	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:28	46001	BERW_T1	0	0	0	0	0	0	1.21	1.17	0	0	0	0	0	0
7/29/2024 22:29	42301	MOWR_T2	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
7/29/2024 22:29	52002	LING_T2	0	0	0	0	0	0	-0.27	-0.38	0	0	0	0	0	0
7/29/2024 22:29	13201	PALM_T1	0	0	0	0	0	0	-1.38	-1.4	1	1	0	1200	1200	0
7/29/2024 22:29	45502	DERR_T2	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
7/29/2024 22:29	46102	MACI_T1	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
7/29/2024 22:29	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:29	52004	LING_T2	2	2	0	5.05	5.45	0.4	0	0	0	0	0	0	0	0
7/29/2024 22:29	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:29	53502	EVIL_T2	0	0	0	0	0	0	-0.13	-0.17	2	2	0	1200	1200	0
7/29/2024 22:29	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
7/29/2024 22:29	45501	DERR_T2	0	0	0	0	0	0	0.11	0.28	2	2	0	1800	1800	0
7/29/2024 22:29	59402	RFLD_T2	0	0	0	0	0	0	-0.62	-0.64	1	1	0	450	450	0
7/29/2024 22:29	46302	ROHR_T1	2	5	3	2.05	1.46	-0.59	0	0	0	0	0	0	0	0
7/29/2024 22:29	29402	BELT_T1	1	1	0	8.8	9.2	0.4	0	0	0	0	0	0	0	0
7/29/2024 22:29	44902	SCOT_T2	68	237	169	0.12	0.4	0.28	-0.5	-0.53	0	0	0	0	0	0
7/29/2024 22:29	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/29/2024 22:29	64802	MONE_T2	0	0	0	0	0	0	0.41	0.36	0	0	0	0	0	0
7/29/2024 22:29	53501	EVIL_T2	1	0	-1	0.8	0	-0.8	-1.85	-1.89	4	4	0	2400	2400	0
7/29/2024 22:29	60701	BREC_T1	0	0	0	0	0	0	-0.1	-0.17	1	1	0	600	600	0
7/29/2024 22:29	44901	SCOT_T2	0	5	5	0	0.22	0.22	0	0	0	0	0	0	0	0
7/29/2024 22:29	14403	SSLA_T1	1	0	-1	0.2	0	-0.2	1.05	1.02	0	0	0	0	0	0
7/29/2024 22:29	46301	ROHR_T1	0	131	131	0	0.31	0.31	0.39	0.38	0	0	0	0	0	0
7/29/2024 22:29	43102	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/29/2024 22:29	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:29	43108	SMIL_T2	0	0	0	0	0	0	-0.96	-1.01	1	1	0	1200	1200	0
7/29/2024 22:29	42902	MIDD_T2	0	0	0	0	0	0	-1.33	-1.43	2	2	0	1200	1200	0
7/29/2024 22:29	65205	PRIN_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
7/29/2024 22:30	41901	REED_T1	4	5	1	0.45	0.23	-0.22	0	0	0	0	0	0	0	0
7/29/2024 22:30	11104	EGYP_T1	0	1	1	0	0.1	0.1	0.57	0.53	0	0	0	0	0	0
7/29/2024 22:30	45501	DERR_T2	0	0	0	0	0	0	0.33	0.84	6	6	0	5400	5400	0
7/29/2024 22:30	45402	WBLO_T2	17	43	26	0.26	0.33	0.07	-1.12	-1.16	1	1	0	900	900	0
7/29/2024 22:30	14404	SSLA_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
7/29/2024 22:30	44801	EDAN_T2	1	10	9	0.5	0.14	-0.36	-1.34	-1.34	0	0	0	0	0	0
7/29/2024 22:30	29401	BELT_T1	0	2	2	0	0.1	0.1	0	0	1	1	0	900	900	0
7/29/2024 22:30	52002	LING_T2	0	0	0	0	0	0	-0.14	-0.19	0	0	0	0	0	0
7/29/2024 22:30	14403	SSLA_T1	0	0	0	0	0	0	1.05	1.02	0	0	0	0	0	0
7/29/2024 22:30	42802	SELI_T1	0	0	0	0	0	0	-1.85	-1.87	1	1	0	900	900	0
7/29/2024 22:30	43104	SMIL_T2	0	0	0	0	0	0	-0.5	-0.47	1	1	0	300	300	0
7/29/2024 22:30	29402	BELT_T1	1	1	0	9.1	9.3	0.2	0	0	0	0	0	0	0	0
7/29/2024 22:30	60701	BREC_T1	0	0	0	0	0	0	-0.1	-0.17	1	1	0	600	600	0
7/29/2024 22:30	23001	SAJO_T1	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
7/29/2024 22:30	48902	FOSP_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
7/29/2024 22:30	52004	LING_T2	2	2	0	5.35	5.45	0.1	0	0	0	0	0	0	0	0
7/29/2024 22:30	57403	SPAN_T1	1	1	0	1.4	0.1	-1.3	0.49	0.47	0	0	0	0	0	0
7/29/2024 22:30	56504	ROCK_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:30	41902	REED_T1	31	9	-22	0.49	0.33	-0.16	0.59	0.53	1	1	0	900	900	0
7/29/2024 22:30	56501	ROCK_T2	2	4	2	0.15	0.15	0	-1.71	-1.73	0	0	0	0	0	0
7/29/2024 22:30	43102	SMIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
7/29/2024 22:30	15402	WALL_T1	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
7/29/2024 22:30	53501	EVIL_T2	0	0	0	0	0	0	-0.92	-0.95	2	2	0	1200	1200	0
7/29/2024 22:30	14603	SWH_T1	0	0	0	0	0	0	-1.39	-1.42	2	2	0	1200	1200	0
7/29/2024 22:30	24902	WHHA_T1	1	1	0	0.8	0.5	-0.3	0.88	0.86	0	0	0	0	0	0
7/29/2024 22:30	42903	MIDD_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/29/2024 22:30	43108	SMIL_T2	0	0	0	0	0	0	-0.96	-1.01	1	1	0	1200	1200	0
7/29/2024 22:30	42902	MIDD_T2	0	0	0	0	0	0	-1.33	-1.43	2	2	0	1200	1200	0
7/29/2024 22:31	45802	HEGI_T2	1	10	9	0.1	0.32	0.22	-0.09	-0.13	2	2	0	1200	1200	0
7/29/2024 22:31	44801	EDAN_T2	1	10	9	0.5	0.14	-0.36	-2.69	-2.69	0	0	0	0	0	0
7/29/2024 22:31	47101	MARL_T1	24	28	4	1.03	1.52	0.49	-0.38	-0.35	0	0	0	0	0	0
7/29/2024 22:31	46803	HEPB_T2	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
7/29/2024 22:31	42701	AUGU_T1	3	3	0	0.97	0.63	-0.34	0	0	2	2	0	1800	1800	0
7/29/2024 22:31	57401	SPAN_T1	0	0	0	0	0	0	-0.46	-0.55	1	1	0	600	600	0
7/29/2024 22:31	57403	SPAN_T1	1	1	0	1.4	0.1	-1.3	0	0	0	0	0	0	0	0
7/29/2024 22:31	55001	NEWP_T1	0	0	0	0	0	0	-0.35	-0.37	1	1	0	600	600	0
7/29/2024 22:31	41001	LAUR_T2	4	14	10	0.18	0.11	-0.07	0	0	0	0	0	0	0	0
7/29/2024 22:31	10801	CHHI_T1	0	0	0	0	0	0	-1.49	-1.57	3	3	0	2100	2100	0
7/29/2024 22:31	24901	WHHA_T1	0	0	0	0	0	0	-0.51	0.71	0	0	0	0	0	0
7/29/2024 22:31	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.21	0	0	0	0	0	0
7/29/2024 22:31	45501	DERR_T2	0	0	0	0	0	0	0.11	0.28	2	2	0	1800	1800	0
7/29/2024 22:31	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:31	48301	ORWI_T1	2	2	0	2.4	2.5	0.1	0.7	0.75	0	0	0	0	0	0
7/29/2024 22:31	23001	SAJO_T1	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
7/29/2024 22:31	41002	LAUR_T2	44	5	-39	0.29	0.46	0.17	0.07	0.15	0	0	0	0	0	0
7/29/2024 22:31	53601	DALM_T2	1	0	-1	0.2	0	-0.2	-0.27	-0.09	1	1	0	900	900	0
7/29/2024 22:31	67605	WARW_T1	3	3	0	0.5	0.67	0.17	-0.85	-0.93	0	0	0	0	0	0
7/29/2024 22:31	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:31	46801	HEPB_T2	5	2	-3	0.62	0.8	0.18	0	0	0	0	0	0	0	0
7/29/2024 22:31	42301	MOWR_T2	4	6	2	0.18	0	-0.18	0	0	0	0	0	0	0	0
7/29/2024 22:31	43102	SMIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
7/29/2024 22:31	55002	NEWP_T1	2	2	0	0.35	0.8	0.45	0	0	0	0	0	0	0	0
7/29/2024 22:31	24902	WHHA_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
7/29/2024 22:31	43104	SMIL_T2	0	0	0	0	0	0	-0.5	-0.47	1	1	0	300	300	0
7/29/2024 22:31	46203	DANV_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
7/29/2024 22:31	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/29/2024 22:31	53501	EVIL_T2	0	0	0	0	0	0	-0.92	-0.95	2	2	0	1200	1200	0
7/29/2024 22:31	43202	MVIL_T2	1	67	66	0.1	0.54	0.44	-0.53	-0.53	0	0	0	0	0	0
7/29/2024 22:32	40902	JESH_T1	0	0	0	0	0	0	-1.05	-0.91	1	1	0	600	600	0
7/29/2024 22:32	43102	SMIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
7/29/2024 22:32	40101	HUNT_T2	4	4	0	0.13	0.37	0.24	-1.22	-1.23	0	0	0	0	0	0
7/29/2024 22:32	42301	MOWR_T2	4	6	2	0.18	0	-0.18	0	0	0	0	0	0	0	0
7/29/2024 22:32	53501	EVIL_T2	0	0	0	0	0	0	-0.92	-0.95	2	2	0	1200	1200	0
7/29/2024 22:32	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:32	43104	SMIL_T2	0	0	0	0	0	0	-0.5	-0.47	1	1	0	300	300	0
7/29/2024 22:32	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:32	40901	JESH_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
7/29/2024 22:33	45501	DERR_T2	0	0	0	0	0	0	0.11	0.28	2	2	0	1800	1800	0
7/29/2024 22:33	42301	MOWR_T2	4	6	2	0.18	0	-0.18	0	0	0	0	0	0	0	0
7/29/2024 22:33	20401	ASHF_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
7/29/2024 22:33	52004	LING_T2	2	2	0	5.35	5.45	0.1	0	0	0	0	0	0	0	0
7/29/2024 22:33	48901	FOSP_T2	0	0	0	0	0	0	-0.31	-0.32	1	1	0	600	600	0
7/29/2024 22:33	41903	REED_T1	0	0	0	0	0	0	0.29	0.3	1	1	0	1200	1200	0
7/29/2024 22:33	42802	SELI_T1	0	0	0	0	0	0	-1.85	-1.87	1	1	0	900	900	0
7/29/2024 22:33	41901	REED_T1	4	5	1	0.45	0.23	-0.22	0	0	0	0	0	0	0	0
7/29/2024 22:33	20403	ASHF_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
7/29/2024 22:33	57401	SPAN_T1	0	0	0	0	0	0	-0.46	-0.55	1	1	0	600	600	0
7/29/2024 22:33	46302	ROHR_T1	4	6	2	1.45	1.2	-0.25	0.34	0.36	0	0	0	0	0	0
7/29/2024 22:33	45702	LIND_T2	0	0	0	0	0	0	-1.39	-1.44	0	0	0	0	0	0
7/29/2024 22:33	46301	ROHR_T1	0	164	164	0	0.33	0.33	0	0	0	0	0	0	0	0
7/29/2024 22:33	52002	LING_T2	0	0	0	0	0	0	-0.14	-0.19	0	0	0	0	0	0
7/29/2024 22:33	46504	LOHA_T1	2	0	-2	0.85	0	-0.85	0	0	0	0	0	0	0	0
7/29/2024 22:33	46506	LOHA_T1	267	38	-229	0.44	0.14	-0.3	-1.82	-1.79	2	2	0	2100	2100	0
7/29/2024 22:33	57403	SPAN_T1	1	1	0	1.4	0.1	-1.3	0	0	0	0	0	0	0	0
7/29/2024 22:33	40101	HUNT_T2	4	4	0	0.13	0.37	0.24	-1.22	-1.23	0	0	0	0	0	0
7/29/2024 22:33	41902	REED_T1	31	9	-22	0.49	0.33	-0.16	0	0	0	0	0	0	0	0
7/29/2024 22:34	45302	WBER_T2	0	0	0	0	0	0	1.39	1.35	0	0	0	0	0	0
7/29/2024 22:34	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/29/2024 22:34	41902	REED_T1	31	9	-22	0.49	0.33	-0.16	0.59	0.53	1	1	0	900	900	0
7/29/2024 22:34	41901	REED_T1	4	5	1	0.45	0.23	-0.22	0	0	0	0	0	0	0	0
7/29/2024 22:34	45303	WBER_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/29/2024 22:35	43103	SMIL_T2	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
7/29/2024 22:35	42903	MIDD_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/29/2024 22:35	42902	MIDD_T2	0	0	0	0	0	0	-0.66	-0.71	1	1	0	600	600	0
7/29/2024 22:35	43102	SMIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
7/29/2024 22:35	45501	DERR_T2	0	0	0	0	0	0	0.22	0.56	4	4	0	3600	3600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/29/2024 22:36	46801	HEPB_T2	5	2	-3	0.62	0.8	0.18	0.01	-0.04	0	0	0	0	0	0
7/29/2024 22:37	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/2024 22:41	45501	DERR_T2	0	0	0	0	0	0	0.28	0.12	2	2	0	1800	1800	0
7/29/2024 22:44	14603	SWHI_T1	0	0	0	0	0	0	-1.42	-1.44	2	2	0	1200	1200	0
7/29/2024 22:52	66902	SHIL_T2	75	219	144	0.18	0.25	0.07	0	0	0	0	0	0	0	0
7/29/2024 22:52	66903	SHIL_T2	17	56	39	0.21	0.21	0	0	0	0	0	0	0	0	0
7/29/2024 22:52	66901	SHIL_T2	284	328	44	0.43	0.58	0.15	-1.77	-1.79	1	1	0	1200	1200	0
7/29/2024 23:09	47101	MARL_T1	28	15	-13	1.38	1.16	-0.22	-0.37	-0.44	0	0	0	0	0	0
7/30/2024 0:32	56501	ROCK_T2	3	21	18	0.6	0.28	-0.32	0	0	0	0	0	0	0	0
7/30/2024 0:32	56504	ROCK_T2	0	0	0	0	0	0	-0.02	-0.07	0	0	0	0	0	0
7/30/2024 0:40	57401	SPAN_T1	0	0	0	0	0	0	-0.82	-0.84	1	1	0	600	600	0
7/30/2024 1:05	56504	ROCK_T2	0	0	0	0	0	0	-0.05	-0.1	0	0	0	0	0	0
7/30/2024 1:05	56501	ROCK_T2	11	178	167	0.38	0.27	-0.11	0	0	0	0	0	0	0	0
7/30/2024 2:33	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
7/30/2024 3:00	60701	BREC_T1	0	0	0	0	0	0	-0.35	-0.41	1	1	0	600	600	0
7/30/2024 3:37	65901	SAKR_T2	1	1	0	7.8	7.8	0	-0.87	-0.85	1	1	0	900	900	0
7/30/2024 6:53	22002	BOHE_T1	0	0	0	0	0	0	0.32	0.35	0	0	0	0	0	0
7/30/2024 7:20	14306	SUMN_T1	0	0	0	0	0	0	-0.59	-0.58	1	1	0	1200	1200	0
7/30/2024 7:20	14303	SUMN_T1	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0	0
7/30/2024 7:26	61102	BERK_T5	0	0	0	0	0	0	0.71	0.65	1	1	0	300	300	0
7/30/2024 7:41	22002	BOHE_T1	0	0	0	0	0	0	0.35	0.38	0	0	0	0	0	0
7/30/2024 7:42	10705	CATA_T2	0	0	0	0	0	0	-1.73	-1.68	0	0	0	0	0	0
7/30/2024 7:46	47502	NECO_T1	0	0	0	0	0	0	0.95	1.07	0	0	0	0	0	0
7/30/2024 7:49	47502	NECO_T1	0	0	0	0	0	0	0.95	1.07	0	0	0	0	0	0
7/30/2024 7:51	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
7/30/2024 7:51	15702	TANN_T2	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
7/30/2024 7:52	24902	WHHA_T1	1	1	0	0.8	0	-0.8	0.8	0.85	0	0	0	0	0	0
7/30/2024 7:53	14601	SWHI_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
7/30/2024 7:54	24902	WHHA_T1	1	1	0	0.8	0	-0.8	0.8	0.85	0	0	0	0	0	0
7/30/2024 7:55	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
7/30/2024 7:55	15702	TANN_T2	0	0	0	0	0	0	-0.22	-0.18	0	0	0	0	0	0
7/30/2024 7:57	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 7:57	10205	ALLE_T3	2	3	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
7/30/2024 7:57	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 7:59	46002	BERW_T2	0	0	0	0	0	0	-0.81	-0.75	1	1	0	900	900	0
7/30/2024 7:59	61002	DONV_T2	0	0	0	0	0	0	-0.46	-0.47	2	2	0	1200	1200	0
7/30/2024 8:04	50502	MECH_T1	1	1	0	1	1.6	0.6	0	0	0	0	0	0	0	0
7/30/2024 8:04	50505	MECH_T1	0	0	0	0	0	0	-1.88	-1.88	0	0	0	0	0	0
7/30/2024 8:04	50501	MECH_T1	4	4	0	0.73	1.1	0.37	0	0	0	0	0	0	0	0
7/30/2024 8:09	45602	WOOL_T1	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
7/30/2024 8:13	52403	GRPA_T2	3	23	20	0.93	1.05	0.12	-0.06	-0.05	0	0	0	0	0	0
7/30/2024 8:13	52402	GRPA_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
7/30/2024 8:17	43202	MVIL_T2	1	25	24	0.1	0.19	0.09	-0.39	-0.43	0	0	0	0	0	0
7/30/2024 8:18	43202	MVIL_T2	1	25	24	0.1	0.19	0.09	-0.39	-0.43	0	0	0	0	0	0
7/30/2024 8:21	59101	WALK_T2	0	0	0	0	0	0	1.44	1.34	2	2	0	1200	1200	0
7/30/2024 8:21	55001	NEWP_T1	0	0	0	0	0	0	-0.58	-0.53	1	1	0	600	600	0
7/30/2024 8:21	55002	NEWP_T1	4	5	1	0.8	0.48	-0.32	0	0	0	0	0	0	0	0
7/30/2024 8:22	58006	WCAR_T2	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
7/30/2024 8:22	59101	WALK_T2	0	0	0	0	0	0	1.34	1.46	2	2	0	1200	1200	0
7/30/2024 8:22	43105	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/30/2024 8:22	43102	SMIL_T2	0	0	0	0	0	0	-0.97	-0.93	2	2	0	1200	1200	0
7/30/2024 8:27	62601	ENGL_T1	0	0	0	0	0	0	-1.32	-1.38	0	0	0	0	0	0
7/30/2024 8:31	20603	GRWO_T2	0	0	0	0	0	0	-0.42	-0.41	1	1	0	900	900	0
7/30/2024 8:31	20601	GRWO_T2	5	12	7	0.46	0.44	-0.02	0	0	0	0	0	0	0	0
7/30/2024 8:34	65603	QVIL_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
7/30/2024 8:35	47401	PENS_T1	2	2	0	1.2	0.85	-0.35	0.26	0.33	0	0	0	0	0	0
7/30/2024 8:43	63304	GREE_T1	0	0	0	0	0	0	-2.36	-2.33	0	0	0	0	0	0
7/30/2024 8:43	62604	ENGL_T1	0	0	0	0	0	0	-0.97	-0.9	1	1	0	600	600	0
7/30/2024 8:44	11102	EGYP_T1	1	2	1	0.5	0.9	0.4	-0.04	-0.01	0	0	0	0	0	0
7/30/2024 8:44	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 8:44	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 8:44	42301	MOWR_T2	2	13	11	0.2	0.5	0.3	0	0	0	0	0	0	0	0
7/30/2024 8:45	11102	EGYP_T1	1	2	1	0.9	0.4	-0.5	-0.04	-0.01	0	0	0	0	0	0
7/30/2024 8:47	40101	HUNT_T2	10	1	-9	0.52	1.1	0.58	0.03	-0.22	0	0	0	0	0	0
7/30/2024 8:47	23401	HONE_T2	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
7/30/2024 8:48	64904	MILL_T1	0	0	0	0	0	0	0.01	-0.03	0	0	0	0	0	0
7/30/2024 8:49	44601	SALE_T2	0	0	0	0	0	0	0.29	0.19	1	1	0	600	600	0
7/30/2024 8:52	44601	SALE_T2	0	0	0	0	0	0	0.19	0.22	1	1	0	600	600	0
7/30/2024 8:55	53601	DALM_T2	1	1	0	0.6	0.8	0.2	-0.82	-0.87	2	2	0	1500	1500	0
7/30/2024 9:00	46506	LOHA_T1	241	209	-32	0.26	0.22	-0.04	-1.94	-1.83	2	2	0	2100	2100	0
7/30/2024 9:00	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 9:10	45501	DERR_T2	0	0	0	0	0	0	1.15	0.98	2	2	0	1800	1800	0
7/30/2024 9:10	45502	DERR_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
7/30/2024 9:11	45502	DERR_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
7/30/2024 9:11	45501	DERR_T2	0	0	0	0	0	0	1.15	0.98	2	2	0	1800	1800	0
7/30/2024 9:13	42301	MOWR_T2	12	10	-2	0.48	0.27	-0.21	0	0	0	0	0	0	0	0
7/30/2024 9:19	44201	POIN_T1	0	0	0	0	0	0	-1.52	-1.71	2	2	0	2100	2100	0
7/30/2024 9:21	42802	SELI_T1	0	0	0	0	0	0	-1.27	-1.32	1	1	0	900	900	0
7/30/2024 9:21	44201	POIN_T1	0	0	0	0	0	0	-1.71	-0.89	2	2	0	2100	2100	0
7/30/2024 9:21	13303	ORVI_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
7/30/2024 9:23	42802	SELI_T1	0	0	0	0	0	0	-1.27	-1.32	1	1	0	900	900	0
7/30/2024 9:23	44201	POIN_T1	0	0	0	0	0	0	-1.71	-0.89	2	2	0	2100	2100	0
7/30/2024 9:29	63305	GREE_T1	0	5	5	0	0.1	0.1	-1.57	-1.8	1	1	0	900	900	0
7/30/2024 9:30	61102	BERK_T5	0	0	0	0	0	0	0.88	0.6	1	1	0	300	300	0
7/30/2024 9:47	48901	FOSP_T2	0	0	0	0	0	0	0.05	0.09	1	1	0	600	600	0
7/30/2024 9:55	55101	WERT_T1	0	0	0	0	0	0	-1.5	-1.48	4	4	0	3300	3300	0
7/30/2024 9:56	29401	BELT_T1	0	21	21	0	0.14	0.14	0	0	1	1	0	900	900	0
7/30/2024 9:56	29402	BELT_T1	1	1	0	7.1	8.8	1.7	0	0	0	0	0	0	0	0
7/30/2024 9:57	53502	EVIL_T2	3	3	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/30/2024 9:57	53501	EVIL_T2	1	1	0	0.2	0.8	0.6	-0.7	-1.03	3	3	0	2100	2100	0
7/30/2024 9:58	53501	EVIL_T2	1	1	0	0.2	0.8	0.6	-0.7	-1.03	3	3	0	2100	2100	0
7/30/2024 9:58	53502	EVIL_T2	3	3	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/30/2024 10:00	52503	PROG_T2	0	0	0	0	0	0	-0.3	-0.28	1	1	0	900	900	0
7/30/2024 10:00	56504	ROCK_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
7/30/2024 10:00	53502	EVIL_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
7/30/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-0.25	0.03	2	2	0	2100	2100	0
7/30/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 10:00	55001	NEWP_T1	0	0	0	0	0	0	-0.35	-0.37	1	1	0	600	600	0
7/30/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
7/30/2024 10:00	10705	CATA_T2	0	0	0	0	0	0	-0.71	-0.64	0	0	0	0	0	0
7/30/2024 10:00	56501	ROCK_T2	1	1	0	0.7	0.3	-0.4	-0.76	-0.76	0	0	0	0	0	0
7/30/2024 10:00	42301	MOWR_T2	4	7	3	0.58	0.44	-0.14	0	0	0	0	0	0	0	0
7/30/2024 10:00	40505	CRES_T1	4	4	0	2.13	2.18	0.05	0.64	0.65	0	0	0	0	0	0
7/30/2024 10:00	17002	RIRO_T2	0	0	0	0	0	0	0.97	0.96	0	0	0	0	0	0
7/30/2024 10:00	55002	NEWP_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
7/30/2024 10:00	53501	EVIL_T2	1	2	1	0.3	0.8	0.5	-1.41	-2.06	6	6	0	4200	4200	0
7/30/2024 10:00	40504	CRES_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/30/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
7/30/2024 10:00	67103	SPRI_T1	0	0	0	0	0	0	-0.62	-0.57	0	0	0	0	0	0
7/30/2024 10:00	57401	SPAN_T1	0	0	0	0	0	0	-0.78	-0.94	1	1	0	600	600	0
7/30/2024 10:01	52403	GRPA_T2	34	12	-22	0.73	0.49	-0.24	0	0	0	0	0	0	0	0
7/30/2024 10:01	52404	GRPA_T2	0	0	0	0	0	0	0.9	1.02	0	0	0	0	0	0
7/30/2024 10:01	52401	GRPA_T2	1	3	2	0.3	1.1	0.8	0	0	0	0	0	0	0	0
7/30/2024 10:01	52402	GRPA_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
7/30/2024 10:03	67604	WARW_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
7/30/2024 10:05	65401	MARI_T1	0	0	0	0	0	0	-0.37	-0.33	0	0	0	0	0	0
7/30/2024 10:06	56501	ROCK_T2	1	1	0	0.7	0.3	-0.4	-0.76	-0.76	0	0	0	0	0	0
7/30/2024 10:07	52403	GRPA_T2	34	12	-22	0.73	0.49	-0.24	0	0	0	0	0	0	0	0
7/30/2024 10:07	52404	GRPA_T2	0	0	0	0	0	0	1.02	0.96	0	0	0	0	0	0
7/30/2024 10:07	52401	GRPA_T2	1	3	2	0.3	1.1	0.8	0	0	0	0	0	0	0	0
7/30/2024 10:07	56501	ROCK_T2	1	1	0	0.7	0.3	-0.4	-1.52	-1.48	0	0	0	0	0	0
7/30/2024 10:07	52503	PROG_T2	0	0	0	0	0	0	-0.28	-0.29	1	1	0	900	900	0
7/30/2024 10:07	52402	GRPA_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
7/30/2024 10:10	55101	WERT_T1	0	0	0	0	0	0	-1.48	-1.41	4	4	0	3300	3300	0
7/30/2024 10:10	53601	DALM_T2	1	1	0	0.4	0.2	-0.2	-0.59	-0.59	2	2	0	1500	1500	0
7/30/2024 10:11	46206	DANV_T2	5	5	0	1.34	0.85	-0.49	0	0	0	0	0	0	0	0
7/30/2024 10:11	11101	EGYP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/30/2024 10:11	46203	DANV_T2	0	0	0	0	0	0	-1.45	-1.36	0	0	0	0	0	0
7/30/2024 10:11	11103	EGYP_T1	0	0	0	0	0	0	-0.5	-0.6	0	0	0	0	0	0
7/30/2024 10:11	11104	EGYP_T1	0	5	5	0	0.17	0.17	0	0	0	0	0	0	0	0
7/30/2024 10:11	11102	EGYP_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
7/30/2024 10:12	46506	LOHA_T1	0	0	0	0	0	0	-1.73	-1.72	2	2	0	2100	2100	0
7/30/2024 10:12	63304	GREE_T1	0	0	0	0	0	0	-2.08	-2.17	0	0	0	0	0	0
7/30/2024 10:13	45501	DERR_T2	1	3	2	0.3	0.3	0	1.1	1.04	2	2	0	1800	1800	0
7/30/2024 10:13	53501	EVIL_T2	1	2	1	0.3	0.8	0.5	-1.03	-0.74	3	3	0	2100	2100	0
7/30/2024 10:13	45502	DERR_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/30/2024 10:13	53502	EVIL_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
7/30/2024 10:14	11102	EGYP_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
7/30/2024 10:14	11103	EGYP_T1	0	0	0	0	0	0	-0.5	-0.6	0	0	0	0	0	0
7/30/2024 10:14	11104	EGYP_T1	0	5	5	0	0.17	0.17	0	0	0	0	0	0	0	0
7/30/2024 10:14	11101	EGYP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/30/2024 10:14	45702	LIND_T2	1	1	0	0.2	0.3	0.1	-1.32	-1.3	0	0	0	0	0	0
7/30/2024 10:16	42301	MOWR_T2	6	6	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
7/30/2024 10:16	63305	GREE_T1	0	0	0	0	0	0	-1.62	-1.32	1	1	0	900	900	0
7/30/2024 10:16	53501	EVIL_T2	1	1	0	0.8	0.3	-0.5	-1.03	-0.74	3	3	0	2100	2100	0
7/30/2024 10:16	23401	HONE_T2	0	1	1	0	0	0	0	-0.06	0	0	0	0	0	0
7/30/2024 10:16	53502	EVIL_T2	2	4	2	0.25	0.7	0.45	0	0	0	0	0	0	0	0
7/30/2024 10:17	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 10:19	42201	SHEN_T2	0	0	0	0	0	0	0.34	0.44	1	1	0	600	600	0
7/30/2024 10:22	59101	WALK_T2	0	0	0	0	0	0	2.39	2.22	2	2	0	1200	1200	0
7/30/2024 10:23	57501	LAWN_T3	0	0	0	0	0	0	-1.41	-1.43	0	0	0	0	0	0
7/30/2024 10:23	25503	MADI_T1	0	0	0	0	0	0	-0.58	-0.61	0	0	0	0	0	0
7/30/2024 10:23	67505	WEWI_T1	0	0	0	0	0	0	0.51	0.52	1	1	0	900	900	0
7/30/2024 10:23	25501	MADI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/30/2024 10:25	44801	EDAN_T2	1	2	1	0.3	0.2	-0.1	-1.22	-1.19	0	0	0	0	0	0
7/30/2024 10:26	44801	EDAN_T2	1	2	1	0.3	0.2	-0.1	-1.22	-1.19	0	0	0	0	0	0
7/30/2024 10:26	10805	CHHI_T2	20	25	5	1.89	1.39	-0.5	-0.22	-0.12	1	1	0	600	600	0
7/30/2024 10:26	46506	LOHA_T1	0	0	0	0	0	0	-1.72	-1.74	2	2	0	2100	2100	0
7/30/2024 10:28	53601	DALM_T2	0	1	1	0	0.2	0.2	-0.59	-0.67	2	2	0	1500	1500	0
7/30/2024 10:28	62604	ENGL_T1	0	0	0	0	0	0	-0.95	-0.89	1	1	0	600	600	0
7/30/2024 10:29	52403	GRPA_T2	9	11	2	0.64	0.42	-0.22	-0.51	-0.47	0	0	0	0	0	0
7/30/2024 10:29	52401	GRPA_T2	1	4	3	1.1	1.3	0.2	0	0	0	0	0	0	0	0
7/30/2024 10:31	46506	LOHA_T1	0	0	0	0	0	0	-1.72	-1.74	2	2	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/30/2024 10:31	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 10:34	47401	PENS_T1	3	5	2	0.9	0.4	-0.5	0.56	0.64	0	0	0	0	0	0
7/30/2024 10:34	47403	PENS_T1	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
7/30/2024 10:35	47401	PENS_T1	3	5	2	0.9	0.4	-0.5	0.56	0.64	0	0	0	0	0	0
7/30/2024 10:35	42802	SELI_T1	0	0	0	0	0	0	-2.27	-2.31	2	2	0	1800	1800	0
7/30/2024 10:35	47403	PENS_T1	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
7/30/2024 10:36	42802	SELI_T1	0	0	0	0	0	0	-2.31	-2.36	2	2	0	1800	1800	0
7/30/2024 10:36	55001	NEWP_T1	0	1	1	0	0	0	-0.62	-0.61	2	2	0	1200	1200	0
7/30/2024 10:39	42802	SELI_T1	0	0	0	0	0	0	-1.15	-1.18	1	1	0	900	900	0
7/30/2024 10:40	42802	SELI_T1	0	0	0	0	0	0	-1.15	-1.18	1	1	0	900	900	0
7/30/2024 10:41	44301	BEAV_T2	0	3	3	0	1	1	0	0	0	0	0	0	0	0
7/30/2024 10:41	47401	PENS_T1	3	5	2	0.9	0.4	-0.5	1.28	1.18	0	0	0	0	0	0
7/30/2024 10:41	47403	PENS_T1	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
7/30/2024 10:44	45501	DERR_T2	3	4	1	0.23	0.63	0.4	1.11	1.14	2	2	0	1800	1800	0
7/30/2024 10:44	11102	EGYP_T1	1	1	0	0.5	1.5	1	0	0	0	0	0	0	0	0
7/30/2024 10:44	11104	EGYP_T1	5	5	0	0.28	0.52	0.24	1.08	1.05	0	0	0	0	0	0
7/30/2024 10:44	45502	DERR_T2	2	3	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/30/2024 10:45	52401	GRPA_T2	3	3	0	0.93	7.6	6.67	0	0	0	0	0	0	0	0
7/30/2024 10:45	11104	EGYP_T1	5	5	0	0.52	0.84	0.32	1.08	1.05	0	0	0	0	0	0
7/30/2024 10:45	52402	GRPA_T2	0	2	2	0	0.4	0.4	-0.35	-0.34	0	0	0	0	0	0
7/30/2024 10:45	42901	MIDD_T2	3	2	-1	1	0.4	-0.6	0	0	0	0	0	0	0	0
7/30/2024 10:45	42903	MIDD_T2	0	1	1	0	0.2	0.2	0.82	0.74	1	1	0	1200	1200	0
7/30/2024 10:45	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 10:45	42902	MIDD_T2	1	1	0	2	1.5	-0.5	0	0	0	0	0	0	0	0
7/30/2024 10:45	52403	GRPA_T2	7	17	10	0.43	0.6	0.17	0	0	0	0	0	0	0	0
7/30/2024 10:45	11102	EGYP_T1	1	1	0	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
7/30/2024 10:46	46803	HEPB_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/30/2024 10:46	45802	HEGI_T2	18	132	114	0.35	0.34	-0.01	0.67	0.74	2	2	0	1200	1200	0
7/30/2024 10:46	46801	HEPB_T2	2	2	0	0.35	1.2	0.85	0.92	0.24	0	0	0	0	0	0
7/30/2024 10:46	64902	MILL_T2	0	0	0	0	0	0	-0.82	-0.85	1	1	0	900	900	0
7/30/2024 10:49	42201	SHEN_T2	0	0	0	0	0	0	0.41	0.37	1	1	0	600	600	0
7/30/2024 10:49	56501	ROCK_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
7/30/2024 10:49	64902	MILL_T2	0	0	0	0	0	0	-0.82	-0.85	1	1	0	900	900	0
7/30/2024 10:49	56504	ROCK_T2	0	0	0	0	0	0	0.26	0.16	0	0	0	0	0	0
7/30/2024 10:50	65001	NEFF_T2	0	0	0	0	0	0	0.12	0.18	1	1	0	1200	1200	0
7/30/2024 10:50	47401	PENS_T1	4	5	1	0.85	0.45	-0.4	0.64	0.59	0	0	0	0	0	0
7/30/2024 10:50	47403	PENS_T1	0	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0
7/30/2024 10:51	55101	WERT_T1	0	5	5	0	0	0	-1.47	-1.33	4	4	0	3300	3300	0
7/30/2024 10:51	44202	POIN_T2	0	1	1	0	0	0	-0.25	-0.14	1	1	0	1200	1200	0
7/30/2024 10:51	15803	WGAT_T1	0	0	0	0	0	0	1.64	1.48	0	0	0	0	0	0
7/30/2024 10:51	44203	POIN_T2	4	5	1	0.68	0	-0.68	0	0	0	0	0	0	0	0
7/30/2024 10:51	15801	WGAT_T1	3	1	-2	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
7/30/2024 10:52	56501	ROCK_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
7/30/2024 10:52	16302	ALPA_T2	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
7/30/2024 10:52	56504	ROCK_T2	0	0	0	0	0	0	0.48	0.64	0	0	0	0	0	0
7/30/2024 10:53	42701	AUGU_T1	2	2	0	0.3	0.35	0.05	0	0	2	2	0	1800	1800	0
7/30/2024 10:53	56504	ROCK_T2	0	0	0	0	0	0	0.16	0.21	0	0	0	0	0	0
7/30/2024 10:53	24902	WHHA_T1	1	1	0	1	1	0	0.93	0.9	0	0	0	0	0	0
7/30/2024 10:53	56501	ROCK_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
7/30/2024 10:55	67803	WLAN_T1	0	0	0	0	0	0	-1.17	-1.18	0	0	0	0	0	0
7/30/2024 10:55	58001	WCAR_T1	3	4	1	0.23	0.45	0.22	0	0	0	0	0	0	0	0
7/30/2024 10:55	42701	AUGU_T1	2	2	0	0.3	0.35	0.05	0	0	2	2	0	1800	1800	0
7/30/2024 10:55	58003	WCAR_T1	1	1	0	0.9	1	0.1	0.45	0.5	1	1	0	600	600	0
7/30/2024 10:56	16302	ALPA_T2	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
7/30/2024 10:56	24902	WHHA_T1	1	1	0	1	1	0	0.93	0.9	0	0	0	0	0	0
7/30/2024 10:57	16302	ALPA_T2	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
7/30/2024 10:57	10801	OHH_T1	0	1	1	0	0.2	0.2	-1.42	-1.43	3	3	0	2100	2100	0
7/30/2024 10:59	41002	LAUR_T2	2	4	2	0.2	0.33	0.13	0.32	0.33	0	0	0	0	0	0
7/30/2024 10:59	41001	LAUR_T2	3	5	2	0.67	0.75	0.08	0	0	0	0	0	0	0	0
7/30/2024 11:00	42302	MOWR_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 11:00	42301	MOWR_T2	2	2	0	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/30/2024 11:04	15703	TANN_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
7/30/2024 11:04	43202	MVIL_T2	0	1	1	0	0.5	0.5	-0.36	-0.36	0	0	0	0	0	0
7/30/2024 11:04	15702	TANN_T2	0	0	0	0	0	0	0.1	0.04	0	0	0	0	0	0
7/30/2024 11:05	15703	TANN_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
7/30/2024 11:05	15702	TANN_T2	0	0	0	0	0	0	0.19	0.08	0	0	0	0	0	0
7/30/2024 11:05	43108	SMIL_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/30/2024 11:05	43101	SMIL_T2	0	0	0	0	0	0	-0.39	-0.37	1	1	0	300	300	0
7/30/2024 11:10	29402	BELT_T1	37	8	-29	0.57	1.45	0.88	0	0	0	0	0	0	0	0
7/30/2024 11:10	29401	BELT_T1	22	0	-22	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/30/2024 11:11	29402	BELT_T1	37	8	-29	0.57	1.45	0.88	0	0	0	0	0	0	0	0
7/30/2024 11:11	29401	BELT_T1	22	0	-22	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/30/2024 11:15	53502	EVIL_T2	3	5	2	0.27	0.27	0	0	0	0	0	0	0	0	0
7/30/2024 11:15	40101	HUNT_T2	46	92	46	0.37	0.44	0.07	-0.11	-0.15	0	0	0	0	0	0
7/30/2024 11:15	53501	EVIL_T2	1	1	0	0.6	0	-0.6	-0.8	-0.73	3	3	0	2100	2100	0
7/30/2024 11:16	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 11:17	13501	MCMI_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
7/30/2024 11:17	40101	HUNT_T2	46	92	46	0.37	0.44	0.07	-0.11	-0.15	0	0	0	0	0	0
7/30/2024 11:17	52402	GRPA_T2	1	3	2	0.4	0.65	0.25	0	0	0	0	0	0	0	0
7/30/2024 11:17	52403	GRPA_T2	17	28	11	0.49	0.65	0.16	-0.35	-0.39	0	0	0	0	0	0
7/30/2024 11:17	52401	GRPA_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/30/2024 11:18	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 11:18	41902	REED_T1	6	17	11	0.55	0.48	-0.07	0.66	0.66	1	1	0	900	900	0
7/30/2024 11:19	52403	GRPA_T2	17	28	11	0.49	0.65	0.16	0	0	0	0	0	0	0	0
7/30/2024 11:19	52401	GRPA_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/30/2024 11:19	52402	GRPA_T2	1	3	2	0.4	0.65	0.25	-0.33	-0.34	0	0	0	0	0	0
7/30/2024 11:20	41902	REED_T1	6	17	11	0.55	0.48	-0.07	0.66	0.66	1	1	0	900	900	0
7/30/2024 11:20	42903	MIDD_T2	1	1	0	0.2	0	-0.2	1.06	1.14	1	1	0	1200	1200	0
7/30/2024 11:20	52402	GRPA_T2	1	3	2	0.4	0.65	0.25	-0.33	-0.34	0	0	0	0	0	0
7/30/2024 11:20	42902	MIDD_T2	1	2	1	1.9	2.4	0.5	0	0	0	0	0	0	0	0
7/30/2024 11:20	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 11:20	42901	MIDD_T2	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/30/2024 11:20	59101	WALK_T2	0	3	3	0	0.4	0.4	1.12	1.25	1	1	0	600	600	0
7/30/2024 11:20	52401	GRPA_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/30/2024 11:20	52403	GRPA_T2	17	28	11	0.49	0.65	0.16	0	0	0	0	0	0	0	0
7/30/2024 11:20	46102	MACI_T1	0	0	0	0	0	0	0.99	0.99	0	0	0	0	0	0
7/30/2024 11:22	42802	SELI_T1	0	0	0	0	0	0	-1.08	-1.08	1	1	0	900	900	0
7/30/2024 11:24	45501	DERR_T2	8	9	1	0.41	0.59	0.18	0	0	0	0	0	0	0	0
7/30/2024 11:24	45502	DERR_T2	3	12	9	0.47	0.46	-0.01	0.08	0.78	0	0	0	0	0	0
7/30/2024 11:24	42802	SELI_T1	0	0	0	0	0	0	-1.08	-1.08	1	1	0	900	900	0
7/30/2024 11:25	42802	SELI_T1	0	0	0	0	0	0	-2.16	-2.16	2	2	0	1800	1800	0
7/30/2024 11:25	59101	WALK_T2	0	3	3	0	0.4	0.4	1.25	1.57	1	1	0	600	600	0
7/30/2024 11:29	10805	CHHI_T2	62	201	139	0.96	0.97	0.01	0.05	0.03	1	1	0	600	600	0
7/30/2024 11:30	53501	EVIL_T2	0	5	5	0	1	1	0	0	0	0	0	0	0	0
7/30/2024 11:30	53502	EVIL_T2	3	7	4	0.37	0.32	-0.05	1.15	1.11	4	4	0	2400	2400	0
7/30/2024 11:31	41205	KENM_T2	0	0	0	0	0	0	-0.54	-0.52	1	1	0	600	600	0
7/30/2024 11:35	46302	ROHR_T1	4	4	0	1.35	1.1	-0.25	0.77	0.75	0	0	0	0	0	0
7/30/2024 11:35	46301	ROHR_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/30/2024 11:36	58303	NOTT_T2	0	0	0	0	0	0	-0.19	-0.18	1	1	0	900	900	0
7/30/2024 11:37	55101	WERT_T1	0	0	0	0	0	0	-1.89	-1.93	4	4	0	3300	3300	0
7/30/2024 11:38	24902	WHHA_T1	1	4	3	1.3	1.7	0.4	0.95	1.02	0	0	0	0	0	0
7/30/2024 11:40	44301	BEAV_T2	4	3	-1	1.18	0.2	-0.98	0.44	-0.06	2	2	0	1500	1500	0
7/30/2024 11:40	55101	WERT_T1	0	0	0	0	0	0	-5.67	-5.8	12	12	0	9900	9900	0
7/30/2024 11:40	25603	ARRO_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
7/30/2024 11:40	24902	WHHA_T1	1	4	3	1.3	1.7	0.4	0.95	1.02	0	0	0	0	0	0
7/30/2024 11:44	53502	EVIL_T2	3	7	4	0.37	0.32	-0.05	0.56	0.58	2	2	0	1200	1200	0
7/30/2024 11:44	53501	EVIL_T2	0	5	5	0	1	1	0	0	0	0	0	0	0	0
7/30/2024 11:45	13503	MCMI_T2	4	3	-1	0.45	0.37	-0.08	-0.69	-0.67	0	0	0	0	0	0
7/30/2024 11:47	52401	GRPA_T2	2	12	10	1.05	0.44	-0.61	0	0	0	0	0	0	0	0
7/30/2024 11:47	52403	GRPA_T2	7	70	63	0.73	0.77	0.04	-0.37	0.28	0	0	0	0	0	0
7/30/2024 11:47	52402	GRPA_T2	2	16	14	0.65	0.25	-0.4	0	0	0	0	0	0	0	0
7/30/2024 11:48	48301	ORWI_T1	2	7	5	0.4	0.67	0.27	1.25	1.31	0	0	0	0	0	0
7/30/2024 11:48	55405	SHER_T1	6	3	-3	0.23	0.1	-0.13	-0.17	-0.17	0	0	0	0	0	0
7/30/2024 11:48	65604	QVIL_T2	0	0	0	0	0	0	0.94	0.94	0	0	0	0	0	0
7/30/2024 11:48	58302	NOTT_T1	0	0	0	0	0	0	-0.73	-0.75	2	2	0	2100	2100	0
7/30/2024 11:48	55401	SHER_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 11:49	64101	REFR_T1	0	0	0	0	0	0	0.32	0.37	0	0	0	0	0	0
7/30/2024 11:50	13503	MCMI_T2	4	3	-1	0.45	0.37	-0.08	-0.69	-0.67	0	0	0	0	0	0
7/30/2024 11:51	43101	SMIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/30/2024 11:51	59101	WALK_T2	2	1	-1	1.05	0	-1.05	1.57	1.69	1	1	0	600	600	0
7/30/2024 11:51	43106	SMIL_T2	0	0	0	0	0	0	-0.75	-0.75	2	2	0	2400	2400	0
7/30/2024 11:52	40201	BEGA_T2	1	1	0	0.7	1.7	1	0	0	0	0	0	0	0	0
7/30/2024 11:52	46302	ROHR_T1	4	2	-2	1.1	1.2	0.1	0	0	0	0	0	0	0	0
7/30/2024 11:52	46301	ROHR_T1	2	0	-2	0.3	0	-0.3	0.41	0.4	0	0	0	0	0	0
7/30/2024 11:52	59101	WALK_T2	2	1	-1	1.05	0	-1.05	1.69	1.19	1	1	0	600	600	0
7/30/2024 11:54	20403	ASHF_T2	8	8	0	0.48	0.65	0.17	1.85	1.53	0	0	0	0	0	0
7/30/2024 11:54	20401	ASHF_T2	5	4	-1	1.18	0.88	-0.3	0	0	0	0	0	0	0	0
7/30/2024 11:54	58706	ROSE_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
7/30/2024 11:54	58701	ROSE_T2	0	0	0	0	0	0	-0.57	-0.53	1	1	0	600	600	0
7/30/2024 11:54	58705	ROSE_T2	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0	0
7/30/2024 11:54	20402	ASHF_T2	0	7	7	0	0.3	0.3	0	0	0	0	0	0	0	0
7/30/2024 11:55	20402	ASHF_T2	0	7	7	0	0.3	0.3	0	0	0	0	0	0	0	0
7/30/2024 11:55	20403	ASHF_T2	8	8	0	0.48	0.65	0.17	1.85	1.53	0	0	0	0	0	0
7/30/2024 11:55	20401	ASHF_T2	5	4	-1	1.18	0.88	-0.3	0	0	0	0	0	0	0	0
7/30/2024 11:57	40201	BEGA_T2	1	1	0	0.7	1.7	1	0	0	0	0	0	0	0	0
7/30/2024 12:02	16402	MOPO_T1	0	41	41	0	0.25	0.25	0.42	0.45	0	0	0	0	0	0
7/30/2024 12:03	16402	MOPO_T1	0	41	41	0	0.25	0.25	0.42	0.45	0	0	0	0	0	0
7/30/2024 12:04	43101	SMIL_T2	1	2	1	0.3	1	0.7	0	0	0	0	0	0	0	0
7/30/2024 12:04	13903	SEID_T1	9	11	2	0.61	0.77	0.16	0	0	0	0	0	0	0	0
7/30/2024 12:04	13905	SEID_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/30/2024 12:04	43103	SMIL_T2	0	0	0	0	0	0	-0.66	-0.81	0	0	0	0	0	0
7/30/2024 12:04	13904	SEID_T1	7	16	9	0.34	0.4	0.06	0.73	0.72	0	0	0	0	0	0
7/30/2024 12:04	14201	EALL_T1	0	0	0	0	0	0	-0.58	-0.53	0	0	0	0	0	0
7/30/2024 12:05	43101	SMIL_T2	1	2	1	0.3	1	0.7	0	0	0	0	0	0	0	0
7/30/2024 12:05	43108	SMIL_T2	0	0	0	0	0	0	-0.76	-0.7	1	1	0	1200	1200	0
7/30/2024 12:06	13904	SEID_T1	7	16	9	0.34	0.4	0.06	0.72	0.72	0	0	0	0	0	0
7/30/2024 12:06	13905	SEID_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/30/2024 12:06	13903	SEID_T1	9	11	2	0.61	0.77	0.16	0	0	0	0	0	0	0	0
7/30/2024 12:07	43101	SMIL_T2	1	2	1	0.3	1	0.7	0	0	0	0	0	0	0	0
7/30/2024 12:07	43102	SMIL_T2	0	0	0	0	0	0	-0.34	-0.33	1	1	0	600	600	0
7/30/2024 12:08	13905	SEID_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/30/2024 12:08	13904	SEID_T1	7	16	9	0.34	0.4	0.06	0.72	0.72	0	0	0	0	0	0
7/30/2024 12:08	13903	SEID_T1	9	11	2	0.61	0.77	0.16	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/30/2024 12:08	47401	PENS_T1	0	2	2	0	0.8	0.8	0.42	0.37	0	0	0	0	0	0
7/30/2024 12:09	43103	SMIL_T2	0	0	0	0	0	0	-0.41	-0.25	0	0	0	0	0	0
7/30/2024 12:09	42801	SELI_T1	0	0	0	0	0	0	0.09	0.12	1	1	0	1200	1200	0
7/30/2024 12:09	10805	CHHI_T2	204	237	33	0.74	0.78	0.04	-0.04	0.11	1	1	0	600	600	0
7/30/2024 12:09	43101	SMIL_T2	1	2	1	0.3	1	0.7	0	0	0	0	0	0	0	0
7/30/2024 12:09	43108	SMIL_T2	0	0	0	0	0	0	-0.7	-0.74	1	1	0	1200	1200	0
7/30/2024 12:10	46203	DANV_T2	1	2	1	0.1	0.8	0.7	-1.26	-1.24	0	0	0	0	0	0
7/30/2024 12:10	46206	DANV_T2	2	2	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
7/30/2024 12:11	42301	MOWR_T2	4	8	4	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
7/30/2024 12:11	42302	MOWR_T2	3	1	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/30/2024 12:11	10805	CHHI_T2	204	237	33	0.74	0.78	0.04	-0.04	0.11	1	1	0	600	600	0
7/30/2024 12:12	53601	DALM_T2	1	1	0	0.2	0.6	0.4	-0.81	-0.87	2	2	0	1500	1500	0
7/30/2024 12:12	46203	DANV_T2	1	2	1	0.1	0.8	0.7	-1.26	-1.24	0	0	0	0	0	0
7/30/2024 12:12	46206	DANV_T2	2	2	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
7/30/2024 12:12	10805	CHHI_T2	204	237	33	0.74	0.78	0.04	-0.04	0.11	1	1	0	600	600	0
7/30/2024 12:13	52202	DEVO_T2	0	0	0	0	0	0	-0.81	-0.86	0	0	0	0	0	0
7/30/2024 12:13	52204	DEVO_T2	3	5	2	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
7/30/2024 12:14	47001	HUGH_T2	3	3	0	5.8	8.53	2.73	-0.02	-1.92	0	2	2	0	1800	1800
7/30/2024 12:15	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/30/2024 12:15	64203	KINZ_T1	2	2	0	1.35	1.3	-0.05	0	0	0	0	0	0	0	0
7/30/2024 12:15	11402	FARM_T1	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
7/30/2024 12:15	64201	KINZ_T1	3	6	3	1.07	0.13	-0.94	0.13	0.26	4	4	0	2100	2100	0
7/30/2024 12:15	64204	KINZ_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
7/30/2024 12:15	11104	EGYP_T1	6	5	-1	1.72	1.42	-0.3	1.2	0.87	0	0	0	0	0	0
7/30/2024 12:15	11102	EGYP_T1	3	3	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
7/30/2024 12:15	11406	FARM_T1	0	1	1	0	0	0	-0.33	-0.29	0	0	0	0	0	0
7/30/2024 12:15	11101	EGYP_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/30/2024 12:16	64305	LINC_T1	1	1	0	0.2	1.1	0.9	0.43	0.4	0	0	0	0	0	0
7/30/2024 12:16	46001	BERW_T1	0	0	0	0	0	0	0.47	0.43	0	0	0	0	0	0
7/30/2024 12:16	45802	HEGI_T2	2	11	9	0.1	0.31	0.21	0.47	0.41	2	2	0	1200	1200	0
7/30/2024 12:18	52402	GRPA_T2	16	8	-8	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
7/30/2024 12:18	46001	BERW_T1	0	0	0	0	0	0	0.47	0.43	0	0	0	0	0	0
7/30/2024 12:18	10801	CHHI_T1	3	4	1	0.17	0.3	0.13	-1.23	-1.23	3	3	0	2100	2100	0
7/30/2024 12:18	52403	GRPA_T2	69	46	-23	1.14	0.55	-0.59	0.22	0.44	0	0	0	0	0	0
7/30/2024 12:18	52401	GRPA_T2	11	27	16	0.78	0.53	-0.25	0	0	0	0	0	0	0	0
7/30/2024 12:21	24902	WHHA_T1	7	7	0	0.67	2.1	1.43	0.95	0.95	0	0	0	0	0	0
7/30/2024 12:22	61102	BERK_T5	0	0	0	0	0	0	0.89	0.94	1	1	0	300	300	0
7/30/2024 12:24	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 12:24	40502	CRES_T2	0	1	1	0	0	0	-0.27	-0.26	0	0	0	0	0	0
7/30/2024 12:25	43101	SMIL_T2	1	2	1	1	0	-1	0	0	0	0	0	0	0	0
7/30/2024 12:25	43104	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 12:25	43108	SMIL_T2	0	0	0	0	0	0	-0.74	-0.73	1	1	0	1200	1200	0
7/30/2024 12:26	61102	BERK_T5	0	0	0	0	0	0	0.89	0.94	1	1	0	300	300	0
7/30/2024 12:27	61102	BERK_T5	0	0	0	0	0	0	2.68	2.83	3	3	0	900	900	0
7/30/2024 12:31	12401	MILF_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/30/2024 12:31	58202	NEWV_T1	0	1	1	0	0	0	0.76	0.79	0	0	0	0	0	0
7/30/2024 12:31	12402	MILF_T1	128	144	16	0.78	0.91	0.13	0.52	0.51	1	1	0	1200	1200	0
7/30/2024 12:31	47001	HUGH_T2	3	4	1	8.53	8.23	-0.3	-0.96	-0.9	1	1	0	900	900	0
7/30/2024 12:32	64201	KINZ_T1	5	10	5	0.22	0.73	0.51	0	0	0	0	0	0	0	0
7/30/2024 12:32	64204	KINZ_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
7/30/2024 12:32	64203	KINZ_T1	2	6	4	1.3	1.85	0.55	0.34	0.47	3	3	0	2100	2100	0
7/30/2024 12:32	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/30/2024 12:35	16402	MOPO_T1	2	7	5	0.5	0.3	-0.2	0.45	0.37	0	0	0	0	0	0
7/30/2024 12:38	43104	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 12:38	54201	PENN_T1	5	8	3	1.18	0.68	-0.5	-1.61	-1.63	0	0	0	0	0	0
7/30/2024 12:38	43108	SMIL_T2	0	1	1	0	0	0	-0.73	-0.68	1	1	0	1200	1200	0
7/30/2024 12:38	54203	PENN_T1	5	10	5	0.74	0.51	-0.23	0	0	0	0	0	0	0	0
7/30/2024 12:38	43101	SMIL_T2	2	0	-2	1.1	0	-1.1	0	0	0	0	0	0	0	0
7/30/2024 12:40	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 12:40	29402	BELT_T1	1	1	0	8.1	7.8	-0.3	0	0	0	0	0	0	0	0
7/30/2024 12:41	11104	EGYP_T1	5	6	1	1.42	1.58	0.16	0.86	0.93	0	0	0	0	0	0
7/30/2024 12:41	11102	EGYP_T1	3	3	0	1.63	1.27	-0.36	0	0	0	0	0	0	0	0
7/30/2024 12:41	11101	EGYP_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/30/2024 12:43	11804	FRAN_T1	49	165	116	0.51	0.55	0.04	1.25	1.3	0	0	0	0	0	0
7/30/2024 12:45	11102	EGYP_T1	3	3	0	1.43	1.4	-0.03	0	0	0	0	0	0	0	0
7/30/2024 12:45	11104	EGYP_T1	5	7	2	1.72	1.58	-0.14	0.86	0.93	0	0	0	0	0	0
7/30/2024 12:45	11101	EGYP_T1	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
7/30/2024 12:46	21206	ECAR_T2	18	37	19	0.92	0.8	-0.12	0	0	0	0	0	0	0	0
7/30/2024 12:46	21202	ECAR_T2	4	3	-1	0.75	0.77	0.02	0	0	0	0	0	0	0	0
7/30/2024 12:46	53502	EVIL_T2	2	10	8	0.5	0.72	0.22	0	0	0	0	0	0	0	0
7/30/2024 12:46	53501	EVIL_T2	1	3	2	0.4	0.63	0.23	-0.7	-0.64	3	3	0	2100	2100	0
7/30/2024 12:46	21204	ECAR_T2	1	10	9	0	0.44	0.44	-0.3	-0.28	0	0	0	0	0	0
7/30/2024 12:48	67605	WARW_T1	0	0	0	0	0	0	-0.77	-0.98	0	0	0	0	0	0
7/30/2024 12:50	56504	ROCK_T2	3	3	0	0.63	0.83	0.2	0	0	0	0	0	0	0	0
7/30/2024 12:50	56501	ROCK_T2	2	4	2	0.3	0.25	-0.05	-1.8	-1.81	0	0	0	0	0	0
7/30/2024 12:51	56504	ROCK_T2	3	3	0	0.63	0.83	0.2	0	0	0	0	0	0	0	0
7/30/2024 12:51	56501	ROCK_T2	2	4	2	0.3	0.25	-0.05	-1.8	-1.81	0	0	0	0	0	0
7/30/2024 12:53	56501	ROCK_T2	2	4	2	0.3	0.25	-0.05	-1.81	-1.76	0	0	0	0	0	0
7/30/2024 12:53	56504	ROCK_T2	3	3	0	0.63	0.83	0.2	0	0	0	0	0	0	0	0
7/30/2024 12:55	60101	COCA_T1	0	0	0	0	0	0	0.82	0.88	0	0	0	0	0	0
7/30/2024 12:58	53501	EVIL_T2	1	3	2	0.4	0.63	0.23	-0.64	-0.82	3	3	0	2100	2100	0
7/30/2024 12:58	10801	CHHI_T1	1	7	6	0.2	0.46	0.26	-1.15	-1.07	3	3	0	2100	2100	0
7/30/2024 12:58	53502	EVIL_T2	2	10	8	0.5	0.72	0.22	0	0	0	0	0	0	0	0
7/30/2024 12:59	63401	HONY_T1	0	0	0	0	0	0	0.56	0.49	1	1	0	600	600	0
7/30/2024 13:00	53502	EVIL_T2	7	10	3	0.66	0.63	-0.03	0	0	0	0	0	0	0	0
7/30/2024 13:00	53501	EVIL_T2	2	3	1	0.8	0.7	-0.1	-1.28	-1.64	6	6	0	4200	4200	0
7/30/2024 13:02	11101	EGYP_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/30/2024 13:02	11102	EGYP_T1	3	4	1	1.43	1.27	-0.16	0	0	0	0	0	0	0	0
7/30/2024 13:02	11104	EGYP_T1	6	6	0	1.33	1.4	0.07	0.93	0.95	0	0	0	0	0	0
7/30/2024 13:03	64101	REFR_T1	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
7/30/2024 13:03	59003	MIFF_T1	5	3	-2	1.18	0.4	-0.78	-1.18	-1.22	0	0	0	0	0	0
7/30/2024 13:03	60502	NMAN_T2	0	0	0	0	0	0	0.64	0.6	0	0	0	0	0	0
7/30/2024 13:04	64101	REFR_T1	0	0	0	0	0	0	1.21	1.24	0	0	0	0	0	0
7/30/2024 13:05	64101	REFR_T1	0	0	0	0	0	0	0.8	0.83	0	0	0	0	0	0
7/30/2024 13:07	41903	REED_T1	0	1	1	0	0.1	0.1	1.36	1.64	2	2	0	2400	2400	0
7/30/2024 13:07	41902	REED_T1	24	62	38	0.4	0.59	0.19	0	0	0	0	0	0	0	0
7/30/2024 13:08	40201	BEGA_T2	1	2	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/30/2024 13:08	64101	REFR_T1	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
7/30/2024 13:10	44801	EDAN_T2	2	1	-1	0.6	1.3	0.7	-1.11	-1.08	0	0	0	0	0	0
7/30/2024 13:11	11101	EGYP_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/30/2024 13:11	40201	BEGA_T2	1	2	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/30/2024 13:11	11102	EGYP_T1	3	4	1	1.43	1.27	-0.16	0	0	0	0	0	0	0	0
7/30/2024 13:11	11104	EGYP_T1	6	6	0	1.33	1.4	0.07	0.95	0.92	0	0	0	0	0	0
7/30/2024 13:12	11102	EGYP_T1	3	4	1	1.43	1.27	-0.16	0	0	0	0	0	0	0	0
7/30/2024 13:12	11104	EGYP_T1	6	6	0	1.33	1.4	0.07	0.95	0.92	0	0	0	0	0	0
7/30/2024 13:12	11101	EGYP_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
7/30/2024 13:13	61102	BERK_T5	0	0	0	0	0	0	0.94	0.91	1	1	0	300	300	0
7/30/2024 13:15	64202	KINZ_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
7/30/2024 13:15	64201	KINZ_T1	16	0	-16	0.59	0	-0.59	0.4	-0.74	4	5	1	2100	3300	1200
7/30/2024 13:15	64204	KINZ_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
7/30/2024 13:15	64203	KINZ_T1	7	2	-5	0.9	1.4	0.5	0	0	0	0	0	0	0	0
7/30/2024 13:17	64201	KINZ_T1	16	0	-16	0.59	0	-0.59	0.8	-1.49	8	10	2	4200	6600	2400
7/30/2024 13:17	46504	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/30/2024 13:17	64202	KINZ_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
7/30/2024 13:17	46506	LOHA_T1	0	0	0	0	0	0	-1.62	-1.61	2	1	-1	2100	1200	-900
7/30/2024 13:17	53501	EVIL_T2	3	4	1	0.73	0.6	-0.13	-0.82	-0.85	3	3	0	2100	2100	0
7/30/2024 13:17	46501	LOHA_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 13:17	53502	EVIL_T2	9	8	-1	0.62	0.61	-0.01	0	0	0	0	0	0	0	0
7/30/2024 13:17	64203	KINZ_T1	7	2	-5	0.9	1.4	0.5	0	0	0	0	0	0	0	0
7/30/2024 13:17	64204	KINZ_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
7/30/2024 13:20	66901	SHIL_T2	0	0	0	0	0	0	-0.67	-0.64	1	1	0	1200	1200	0
7/30/2024 13:22	43102	SMIL_T2	0	0	0	0	0	0	-0.23	-0.26	1	1	0	600	600	0
7/30/2024 13:22	43108	SMIL_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/30/2024 13:22	43104	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/30/2024 13:22	43101	SMIL_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
7/30/2024 13:22	43103	SMIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 13:25	20403	ASHF_T2	0	12	12	0	0	0	2.29	2.47	0	0	0	0	0	0
7/30/2024 13:25	43104	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/30/2024 13:25	20401	ASHF_T2	2	6	4	1.1	1.74	0.64	0	0	0	0	0	0	0	0
7/30/2024 13:25	43103	SMIL_T2	0	0	0	0	0	0	-1.45	-1.48	0	0	0	0	0	0
7/30/2024 13:25	43108	SMIL_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
7/30/2024 13:25	66901	SHIL_T2	0	0	0	0	0	0	-0.64	-0.6	1	1	0	1200	1200	0
7/30/2024 13:25	20402	ASHF_T2	6	7	1	1.92	1.37	-0.55	0	0	0	0	0	0	0	0
7/30/2024 13:25	43101	SMIL_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
7/30/2024 13:27	45502	DERR_T2	30	64	34	0.56	0.52	-0.04	-0.13	-0.11	0	0	0	0	0	0
7/30/2024 13:27	45501	DERR_T2	11	27	16	0.64	0.83	0.19	0	0	0	0	0	0	0	0
7/30/2024 13:29	66901	SHIL_T2	0	0	0	0	0	0	-0.64	-0.6	1	1	0	1200	1200	0
7/30/2024 13:30	47203	FAXO_T2	1	1	0	2.4	2.3	-0.1	-1.38	-1.35	1	1	0	1200	1200	0
7/30/2024 13:30	24701	FLND_T2	9	0	-9	0.11	0	-0.11	0	0	0	0	0	0	0	0
7/30/2024 13:30	61306	EARL_T1	0	0	0	0	0	0	-1.13	-1.12	0	0	0	0	0	0
7/30/2024 13:30	47201	FAXO_T2	9	9	0	0.47	0.56	0.09	0	0	0	1	0	0	0	0
7/30/2024 13:30	24702	FLND_T2	0	0	0	0	0	0	0.61	0.72	1	1	0	1200	1200	0
7/30/2024 13:30	64305	LINC_T1	2	2	0	1.05	1.8	0.75	0.61	0.61	0	0	0	0	0	0
7/30/2024 13:30	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 13:31	64305	LINC_T1	2	2	0	1.05	1.8	0.75	0	0	0	0	0	0	0	0
7/30/2024 13:31	64303	LINC_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
7/30/2024 13:31	47502	NECO_T1	0	0	0	0	0	0	1.27	1.27	0	0	0	0	0	0
7/30/2024 13:31	64302	LINC_T2	5	25	20	0.8	0.58	-0.22	1.84	1.83	0	0	0	0	0	0
7/30/2024 13:32	12701	MACU_T1	0	3	3	0	0	0	-0.73	-0.72	1	1	0	1200	1200	0
7/30/2024 13:32	12704	MACU_T1	3	5	2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
7/30/2024 13:32	64305	LINC_T1	2	2	0	1.05	1.8	0.75	0.61	0.61	0	0	0	0	0	0
7/30/2024 13:33	52002	LING_T2	0	0	0	0	0	0	0.61	0.7	0	0	0	0	0	0
7/30/2024 13:33	52004	LING_T2	2	2	0	5.05	4.9	-0.15	0	0	0	0	0	0	0	0
7/30/2024 13:34	12701	MACU_T1	0	3	3	0	0	0	-0.73	-0.72	1	1	0	1200	1200	0
7/30/2024 13:34	12704	MACU_T1	3	5	2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
7/30/2024 13:37	45302	WBER_T2	0	0	0	0	0	0	3.04	3.11	0	0	0	0	0	0
7/30/2024 13:40	20403	ASHF_T2	0	12	12	0	0.28	0.28	1.23	1.21	0	0	0	0	0	0
7/30/2024 13:40	20402	ASHF_T2	7	7	0	2.21	1.37	-0.84	0	0	0	0	0	0	0	0
7/30/2024 13:40	20401	ASHF_T2	5	6	1	1.74	1.94	0.2	0	0	0	0	0	0	0	0
7/30/2024 13:41	20403	ASHF_T2	0	12	12	0	0.28	0.28	1.23	1.21	0	0	0	0	0	0
7/30/2024 13:41	20402	ASHF_T2	7	7	0	2.21	1.37	-0.84	0	0	0	0	0	0	0	0
7/30/2024 13:41	20401	ASHF_T2	5	6	1	1.74	1.94	0.2	0	0	0	0	0	0	0	0
7/30/2024 13:42	43104	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/30/2024 13:42	43108	SMIL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
7/30/2024 13:42	43103	SMIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 13:42	43101	SMIL_T2	2	6	4	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
7/30/2024 13:43	53502	EVIL_T2	7	8	1	0.63	0.82	0.19	0.63	0.67	2	2	0	1200	1200	0
7/30/2024 13:43	53501	EVIL_T2	3	6	3	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/30/2024 13:49	50502	MECH_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/30/2024 13:56	20401	ASHF_T2	6	5	-1	1.68	1.5	-0.18	0	0	0	0	0	0	0	0
7/30/2024 13:56	20403	ASHF_T2	12	4	-8	0.51	0	-0.51	1.21	1.15	0	0	0	0	0	0
7/30/2024 13:56	20402	ASHF_T2	7	8	1	1.37	2.4	1.03	0	0	0	0	0	0	0	0
7/30/2024 14:00	22903	HARW_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 14:00	22905	HARW_T1	12	0	-12	0.43	0	-0.43	-0.4	-0.4	0	0	0	0	0	0
7/30/2024 14:00	22901	HARW_T1	2	2	0	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/30/2024 14:03	46101	MACI_T2	0	0	0	0	0	0	-0.8	-0.83	2	2	0	2400	2400	0
7/30/2024 14:08	40201	BEGA_T2	2	1	-1	0.85	0.4	-0.45	0	0	0	0	0	0	0	0
7/30/2024 14:15	52402	GRPA_T2	5	3	-2	0.46	0.1	-0.36	0	0	0	0	0	0	0	0
7/30/2024 14:15	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 14:15	52401	GRPA_T2	5	83	78	0.32	0.55	0.23	0	0	0	0	0	0	0	0
7/30/2024 14:15	52403	GRPA_T2	75	73	-2	1.17	0.8	-0.37	-0.21	-0.23	0	0	0	0	0	0
7/30/2024 14:16	52001	LING_T1	0	0	0	0	0	0	0.77	0.81	0	0	0	0	0	0
7/30/2024 14:17	57702	PAXT_T1	0	0	0	0	0	0	0.35	-0.25	0	0	0	0	0	0
7/30/2024 14:17	46101	MACI_T2	0	0	0	0	0	0	-0.83	-0.97	2	2	0	2400	2400	0
7/30/2024 14:20	57401	SPAN_T1	0	0	0	0	0	0	-0.3	-0.29	1	1	0	600	600	0
7/30/2024 14:20	57404	SPAN_T2	0	0	0	0	0	0	-1.13	-1.17	1	1	0	1200	1200	0
7/30/2024 14:20	23001	SAJO_T1	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
7/30/2024 14:21	48302	ORWI_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
7/30/2024 14:21	57702	PAXT_T1	0	0	0	0	0	0	0.35	-0.25	0	0	0	0	0	0
7/30/2024 14:22	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 14:22	52403	GRPA_T2	75	73	-2	1.17	0.8	-0.37	0	0	0	0	0	0	0	0
7/30/2024 14:22	52401	GRPA_T2	5	83	78	0.32	0.55	0.23	-0.1	-0.11	0	0	0	0	0	0
7/30/2024 14:22	52402	GRPA_T2	5	3	-2	0.46	0.1	-0.36	0	0	0	0	0	0	0	0
7/30/2024 14:24	29402	BELT_T1	1	2	1	8.9	4.45	-4.45	0	0	0	0	0	0	0	0
7/30/2024 14:24	59101	WALK_T2	2	2	0	0.8	0.65	-0.15	1.74	1.69	2	2	0	1200	1200	0
7/30/2024 14:24	29401	BELT_T1	4	3	-1	0.18	0.1	-0.08	0	0	1	1	0	900	900	0
7/30/2024 14:24	57401	SPAN_T1	0	0	0	0	0	0	-0.29	-0.4	1	1	0	600	600	0
7/30/2024 14:25	51602	DUKE_T2	1	0	-1	7.9	0	-7.9	0	0	0	0	0	0	0	0
7/30/2024 14:25	51604	DUKE_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
7/30/2024 14:27	45901	AUBU_T1	0	0	0	0	0	0	1.17	1.14	0	0	0	0	0	0
7/30/2024 14:27	45902	AUBU_T1	1	5	4	0.1	0.7	0.6	0	0	0	0	0	0	0	0
7/30/2024 14:34	57401	SPAN_T1	0	0	0	0	0	0	-0.29	-0.4	1	1	0	600	600	0
7/30/2024 14:35	27605	PIRI_T2	184	305	121	0.8	0.75	-0.05	0.89	0.87	1	1	0	900	900	0
7/30/2024 14:35	52403	GRPA_T2	64	72	8	0.78	1.17	0.39	0	0	0	0	0	0	0	0
7/30/2024 14:35	52402	GRPA_T2	3	5	2	0.23	0.1	-0.13	-0.41	-0.39	0	0	0	0	0	0
7/30/2024 14:35	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 14:35	57401	SPAN_T1	0	0	0	0	0	0	-0.29	-0.4	1	1	0	600	600	0
7/30/2024 14:35	27603	PIRI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 14:35	52401	GRPA_T2	46	81	35	0.54	0.7	0.16	-0.1	-0.11	0	0	0	0	0	0
7/30/2024 14:39	57404	SPAN_T2	0	0	0	0	0	0	-1.12	-1.11	1	1	0	1200	1200	0
7/30/2024 14:39	57006	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/30/2024 14:39	57004	WHHI_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
7/30/2024 14:39	57401	SPAN_T1	0	0	0	0	0	0	-0.79	-0.54	2	2	0	1200	1200	0
7/30/2024 14:39	57002	WHHI_T2	0	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0
7/30/2024 14:45	25402	LAHA_T2	0	0	0	0	0	0	0.01	0.09	0	0	0	0	0	0
7/30/2024 14:47	57702	PAXT_T1	0	0	0	0	0	0	-0.17	-0.22	0	0	0	0	0	0
7/30/2024 14:48	26803	JAFR_T1	0	0	0	0	0	0	0.09	0.07	1	1	0	900	900	0
7/30/2024 14:52	57006	WHHI_T2	0	0	0	0	0	0	2.61	1.66	1	1	0	600	600	0
7/30/2024 14:52	57002	WHHI_T2	1	1	0	3.3	6	2.7	0	0	0	0	0	0	0	0
7/30/2024 14:55	58402	MORO_T1	0	0	0	0	0	0	-0.72	-0.73	4	4	0	3000	3000	0
7/30/2024 15:01	20603	GRWO_T2	0	0	0	0	0	0	-0.27	-0.26	1	1	0	900	900	0
7/30/2024 15:01	20601	GRWO_T2	21	13	-8	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
7/30/2024 15:03	52002	LING_T2	8	9	1	0.25	0.45	0.2	0.88	0.89	0	0	0	0	0	0
7/30/2024 15:03	52004	LING_T2	2	2	0	4.75	4.8	0.05	0	0	0	0	0	0	0	0
7/30/2024 15:05	52002	LING_T2	8	9	1	0.25	0.45	0.2	0.88	0.89	0	0	0	0	0	0
7/30/2024 15:05	52004	LING_T2	2	2	0	4.75	4.8	0.05	0	0	0	0	0	0	0	0
7/30/2024 15:08	24902	WHHA_T1	22	21	-1	0.59	0.49	-0.1	1.04	1.07	0	0	0	0	0	0
7/30/2024 15:09	55001	NEWP_T1	1	3	2	1.1	0.15	-0.95	-0.14	-0.14	1	1	0	600	600	0
7/30/2024 15:09	20403	ASHF_T2	6	2	-4	0.23	0.5	0.27	0.59	0.62	0	0	0	0	0	0
7/30/2024 15:09	20401	ASHF_T2	5	5	0	1.98	1.28	-0.7	0	0	0	0	0	0	0	0
7/30/2024 15:09	20402	ASHF_T2	8	7	-1	1.28	1.68	0.4	0	0	0	0	0	0	0	0
7/30/2024 15:09	55002	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/30/2024 15:13	51603	DUKE_T1	0	0	0	0	0	0	0.99	1.06	0	0	0	0	0	0
7/30/2024 15:16	52004	LING_T2	2	2	0	4.7	4.8	0.1	0	0	0	0	0	0	0	0
7/30/2024 15:16	52002	LING_T2	8	10	2	0.61	0.37	-0.24	0.89	0.87	0	0	0	0	0	0
7/30/2024 15:17	59302	MCAL_T1	3	11	8	0.63	0.69	0.06	0	0	0	0	0	0	0	0
7/30/2024 15:17	59301	MCAL_T1	0	1	1	0	0.1	0.1	-1.39	-1.39	1	1	0	600	600	0
7/30/2024 15:24	52002	LING_T2	8	10	2	0.61	0.37	-0.24	0.87	0.91	0	0	0	0	0	0
7/30/2024 15:24	52004	LING_T2	2	2	0	4.7	4.8	0.1	0	0	0	0	0	0	0	0
7/30/2024 15:33	53902	HALI_T2	1	1	0	3.5	3.6	0.1	-0.47	-0.47	0	0	0	0	0	0
7/30/2024 15:36	55001	NEWP_T1	2	24	22	0.15	0	-0.15	-0.14	-0.13	1	1	0	600	600	0
7/30/2024 15:38	54201	PENN_T1	4	3	-1	1.1	1.37	0.27	-1.46	-1.48	0	0	0	0	0	0
7/30/2024 15:38	54203	PENN_T1	5	5	0	0.66	0.36	-0.3	0	0	0	0	0	0	0	0
7/30/2024 15:41	55001	NEWP_T1	2	24	22	0.15	0	-0.15	-0.13	-0.13	1	1	0	600	600	0
7/30/2024 15:43	40505	CRES_T1	4	4	0	0.9	0.88	-0.02	0.85	0.87	0	0	0	0	0	0
7/30/2024 15:43	40503	CRES_T1	3	0	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/30/2024 15:43	40504	CRES_T1	13	13	0	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
7/30/2024 15:48	57401	SPAN_T1	5	8	3	0.32	0.23	-0.09	-0.28	-0.24	1	1	0	600	600	0
7/30/2024 15:51	44301	BEAV_T2	0	0	0	0	0	0	0.45	-0.49	3	3	0	1800	1800	0
7/30/2024 15:51	42802	SELI_T1	0	0	0	0	0	0	-3.13	-3.39	3	3	0	2700	2700	0
7/30/2024 15:51	44201	POIN_T1	0	0	0	0	0	0	-3.29	-3.29	4	4	0	4200	4200	0
7/30/2024 15:51	45502	DERR_T2	20	12	-8	0.59	0	-0.59	0	0	0	0	0	0	0	0
7/30/2024 15:51	45501	DERR_T2	17	12	-5	0.54	0.4	-0.14	10.01	10.28	14	14	0	12600	12600	0
7/30/2024 15:52	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 15:52	26402	INOR_T1	80	76	-4	0.57	0.47	-0.1	-1.14	-1.15	1	1	0	600	600	0
7/30/2024 15:52	21202	ECAR_T2	4	4	0	0.9	1.75	0.85	0	0	0	0	0	0	0	0
7/30/2024 15:52	21206	ECAR_T2	52	143	91	0.78	0.97	0.19	0.47	0.5	0	0	0	0	0	0
7/30/2024 15:52	26401	INOR_T1	36	91	55	0.61	0.62	0.01	0	0	0	0	0	0	0	0
7/30/2024 15:54	59101	WALK_T2	5	6	1	0.68	0.68	0	1.27	1.3	3	3	0	1800	1800	0
7/30/2024 15:54	29402	BELT_T1	2	3	1	4	7.1	3.1	0	0	0	0	0	0	0	0
7/30/2024 15:56	44801	EDAN_T2	1	3	2	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
7/30/2024 15:56	44802	EDAN_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
7/30/2024 15:57	44802	EDAN_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
7/30/2024 15:57	44801	EDAN_T2	1	3	2	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
7/30/2024 15:58	44801	EDAN_T2	1	3	2	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
7/30/2024 15:58	58402	MORO_T1	0	2	2	0	0.1	0.1	-0.6	-0.58	4	4	0	3000	3000	0
7/30/2024 15:58	58401	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 15:58	44802	EDAN_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
7/30/2024 15:59	44801	EDAN_T2	1	3	2	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
7/30/2024 15:59	44802	EDAN_T2	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
7/30/2024 16:00	44801	EDAN_T2	3	4	1	1.2	1.4	0.2	0	0	0	0	0	0	0	0
7/30/2024 16:00	44802	EDAN_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
7/30/2024 16:01	40502	CRES_T2	47	91	44	0.39	0.52	0.13	0.02	0	0	0	0	0	0	0
7/30/2024 16:01	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 16:02	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 16:02	40502	CRES_T2	47	91	44	0.39	0.52	0.13	0	0	0	0	0	0	0	0
7/30/2024 16:04	40502	CRES_T2	47	91	44	0.39	0.52	0.13	0.05	0	0	0	0	0	0	0
7/30/2024 16:04	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 16:07	40502	CRES_T2	47	91	44	0.39	0.52	0.13	0	-0.03	0	0	0	0	0	0
7/30/2024 16:07	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 16:10	45502	DERR_T2	12	0	-12	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/30/2024 16:10	45501	DERR_T2	11	9	-2	0.58	0.4	-0.18	1.23	1.27	2	2	0	1800	1800	0
7/30/2024 16:11	55101	WERT_T1	9	22	13	0.4	0.57	0.17	-1.65	-1.58	4	4	0	3300	3300	0
7/30/2024 16:13	22901	HARW_T1	0	1	1	0	0	0	-0.17	-0.08	1	1	0	1200	1200	0
7/30/2024 16:14	40201	BEGA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 16:16	22901	HARW_T1	1	0	-1	0.1	0	-0.1	-0.17	-0.08	1	1	0	1200	1200	0
7/30/2024 16:16	22904	HARW_T1	1	0	-1	6	0	-6	0	0	0	0	0	0	0	0
7/30/2024 16:18	40903	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 16:18	40902	JESH_T1	0	0	0	0	0	0	-1.72	-1.69	3	3	0	1800	1800	0
7/30/2024 16:18	40901	JESH_T1	1	1	0	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
7/30/2024 16:20	54701	NEBL_T2	2	9	7	0.45	0.3	-0.15	0	0	1	1	0	600	600	0
7/30/2024 16:21	51004	NHAR_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
7/30/2024 16:21	51003	NHAR_T1	0	3	3	0	0	0	-1.11	-0.99	1	1	0	1200	1200	0
7/30/2024 16:30	56504	ROCK_T2	0	3	3	0	0.63	0.63	0	0	0	0	0	0	0	0
7/30/2024 16:30	56501	ROCK_T2	2	1	-1	0.3	0.2	-0.1	-1.58	-1.6	0	0	0	0	0	0
7/30/2024 16:32	43202	MVIL_T2	1	1	0	0.2	0.1	-0.1	-0.34	-0.32	0	0	0	0	0	0
7/30/2024 16:38	27502	WEIS_T2	23	59	36	0.58	1.2	0.62	0.33	0.32	0	0	0	0	0	0
7/30/2024 16:39	43108	SMIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 16:39	43104	SMIL_T2	0	0	0	0	0	0	-0.23	-0.25	1	1	0	300	300	0
7/30/2024 16:39	43101	SMIL_T2	1	3	2	1.8	0.5	-1.3	0	0	0	0	0	0	0	0
7/30/2024 16:40	43108	SMIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 16:40	43104	SMIL_T2	0	0	0	0	0	0	-0.23	-0.25	1	1	0	300	300	0
7/30/2024 16:40	43101	SMIL_T2	1	3	2	1.8	0.5	-1.3	0	0	0	0	0	0	0	0
7/30/2024 16:41	43104	SMIL_T2	0	0	0	0	0	0	-0.47	-0.5	2	2	0	600	600	0
7/30/2024 16:41	43101	SMIL_T2	1	3	2	1.8	0.5	-1.3	0	0	0	0	0	0	0	0
7/30/2024 16:41	43108	SMIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 16:50	40603	PIGR_T1	17	29	12	0.38	0.29	-0.09	0.71	0.74	0	0	0	0	0	0
7/30/2024 16:50	40602	PIGR_T1	5	8	3	0.86	1.08	0.22	0	0	0	0	0	0	0	0
7/30/2024 16:53	42701	AUGU_T1	54	58	4	0.8	0.69	-0.11	0	0	0	0	0	0	0	0
7/30/2024 16:56	43108	SMIL_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/30/2024 16:56	43101	SMIL_T2	2	2	0	1.25	0	-1.25	0	0	0	0	0	0	0	0
7/30/2024 16:56	43104	SMIL_T2	0	0	0	0	0	0	-0.25	-0.24	1	1	0	300	300	0
7/30/2024 16:58	42701	AUGU_T1	54	58	4	0.8	0.69	-0.11	0	0	2	2	0	1800	1800	0
7/30/2024 17:03	52402	GRPA_T2	4	4	0	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/30/2024 17:03	52403	GRPA_T2	93	88	-5	1.45	0.92	-0.53	0.02	0.02	0	0	0	0	0	0
7/30/2024 17:03	52401	GRPA_T2	10	9	-1	0.51	0.33	-0.18	0	0	0	0	0	0	0	0
7/30/2024 17:03	52404	GRPA_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 17:07	44202	POIN_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/30/2024 17:07	44203	POIN_T2	6	5	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/30/2024 17:08	44203	POIN_T2	6	5	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/30/2024 17:08	44202	POIN_T2	1	1	0	0.5	0	-0.5	-0.08	-0.03	1	1	0	1200	1200	0
7/30/2024 17:10	20403	ASHF_T2	3	3	0	0.33	0	-0.33	1.18	1.2	0	0	0	0	0	0
7/30/2024 17:10	20402	ASHF_T2	14	36	22	0.92	0.97	0.05	0	0	0	0	0	0	0	0
7/30/2024 17:10	20401	ASHF_T2	5	5	0	0.92	0.8	-0.12	0	0	0	0	0	0	0	0
7/30/2024 17:14	45501	DERR_T2	14	15	1	0.54	0.6	0.06	1.13	1.14	2	2	0	1800	1800	0
7/30/2024 17:14	45502	DERR_T2	10	11	1	0.44	0.26	-0.18	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/30/2024 17:16	64203	KINZ_T1	1	1	0	0.1	0.2	0.1	-0.16	-0.26	2	2	0	900	900	0
7/30/2024 17:16	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/30/2024 17:16	64204	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/30/2024 17:18	50505	MECH_T1	0	0	0	0	0	0	-1.55	-1.56	0	0	0	0	0	0
7/30/2024 17:18	50502	MECH_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
7/30/2024 17:21	43304	WATS_T2	63	39	-24	0.71	0.43	-0.28	0	0	0	0	0	0	0	0
7/30/2024 17:21	43301	WATS_T2	0	0	0	0	0	0	-0.04	-0.03	1	1	0	900	900	0
7/30/2024 17:25	57104	SPHI_T2	0	0	0	0	0	0	-0.75	-0.74	1	1	0	900	900	0
7/30/2024 17:25	57101	SPHI_T2	6	6	0	0.77	0.73	-0.04	0	0	0	0	0	0	0	0
7/30/2024 17:25	57106	SPHI_T2	3	3	0	0.97	1.13	0.16	0	0	0	0	0	0	0	0
7/30/2024 17:37	57603	RUTH_T2	1	1	0	0.1	1.3	1.2	0	0	0	0	0	0	0	0
7/30/2024 17:37	41901	REED_T1	8	4	-4	0.31	0.28	-0.03	0	0	0	0	0	0	0	0
7/30/2024 17:37	41902	REED_T1	53	74	21	0.57	0.47	-0.1	0.73	0.78	1	1	0	900	900	0
7/30/2024 17:37	57601	RUTH_T2	0	0	0	0	0	0	-0.59	-0.59	1	1	0	900	900	0
7/30/2024 18:06	15603	NSTR_T2	0	0	0	0	0	0	-0.97	-0.97	0	0	0	0	0	0
7/30/2024 18:19	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
7/30/2024 18:24	41602	CLEV_T1	12	11	-1	0.58	0.3	-0.28	0	0	1	1	0	600	600	0
7/30/2024 18:38	45902	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/30/2024 18:38	23001	SAJO_T1	0	0	0	0	0	0	-0.12	-0.08	0	0	0	0	0	0
7/30/2024 18:38	45901	AUBU_T1	0	0	0	0	0	0	1.14	1.11	0	0	0	0	0	0
7/30/2024 18:39	24901	WHHA_T1	1	0	-1	0.3	0	-0.3	-0.28	-0.28	0	0	0	0	0	0
7/30/2024 18:39	24902	WHHA_T1	56	14	-42	0.44	0.45	0.01	0	0	0	0	0	0	0	0
7/30/2024 18:49	27302	PARR_T1	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
7/30/2024 18:51	27302	PARR_T1	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
7/30/2024 18:52	57702	PAXT_T1	0	0	0	0	0	0	-0.16	-0.12	0	0	0	0	0	0
7/30/2024 18:59	40801	EXCH_T2	1	4	3	0.1	0.17	0.07	0	0	0	0	0	0	0	0
7/30/2024 18:59	40802	EXCH_T2	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
7/30/2024 19:00	40801	EXCH_T2	1	4	3	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
7/30/2024 19:00	40802	EXCH_T2	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
7/30/2024 19:16	22903	HARW_T1	19	14	-5	0.58	0.63	0.05	0	0	0	0	0	0	0	0
7/30/2024 19:16	22905	HARW_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
7/30/2024 19:41	47001	HUGH_T2	3	4	1	8.2	6.28	-1.92	-1.07	-1.17	1	1	0	900	900	0
7/30/2024 20:06	56504	ROCK_T2	0	1158	1158	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 20:06	56501	ROCK_T2	151	11	-140	0.33	1.1	0.77	-1.66	-0.37	0	0	0	0	0	0
7/30/2024 20:11	52403	GRPA_T2	1	10	9	0.1	0.3	0.2	0	0	0	0	0	0	0	0
7/30/2024 20:11	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/30/2024 20:11	52404	GRPA_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
7/30/2024 20:11	52402	GRPA_T2	3	4	1	0.63	0.4	-0.23	0	0	0	0	0	0	0	0
7/30/2024 20:11	56501	ROCK_T2	151	11	-140	0.33	1.1	0.77	-0.37	-0.41	0	0	0	0	0	0
7/30/2024 20:11	56504	ROCK_T2	0	1158	1158	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 20:16	53601	DALM_T2	1	1	0	0.3	0.4	0.1	-0.52	-0.48	1	1	0	600	600	0
7/30/2024 20:16	53501	EVIL_T2	0	1	1	0	0.3	0.3	-0.93	-0.43	2	1	-1	1200	600	-600
7/30/2024 20:31	56501	ROCK_T2	1	1	0	9.6	6.2	-3.4	0	0	0	0	0	0	0	0
7/30/2024 20:31	56504	ROCK_T2	8	21	13	3.66	0	-3.66	-0.48	0.04	0	0	0	0	0	0
7/30/2024 20:32	56504	ROCK_T2	8	21	13	3.66	0	-3.66	-0.48	0.04	0	0	0	0	0	0
7/30/2024 20:32	57501	LAWN_T3	0	0	0	0	0	0	-1.21	-1.22	0	0	0	0	0	0
7/30/2024 20:32	56501	ROCK_T2	1	1	0	9.6	6.2	-3.4	-0.41	-0.54	0	0	0	0	0	0
7/30/2024 20:33	56504	ROCK_T2	8	21	13	3.66	0	-3.66	-0.48	0.04	0	0	0	0	0	0
7/30/2024 20:33	56501	ROCK_T2	1	1	0	9.6	6.2	-3.4	-0.41	-0.54	0	0	0	0	0	0
7/30/2024 20:37	56501	ROCK_T2	1	1	0	9.6	6.2	-3.4	0	0	0	0	0	0	0	0
7/30/2024 20:37	56504	ROCK_T2	8	21	13	3.66	0	-3.66	0.04	0.03	0	0	0	0	0	0
7/30/2024 20:49	46801	HEPB_T2	3	6	3	0.9	0.58	-0.32	0.09	0.07	0	0	0	0	0	0
7/30/2024 20:49	46803	HEPB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/30/2024 21:00	15703	TANN_T2	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
7/30/2024 21:00	15702	TANN_T2	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/30/2024 21:01	15702	TANN_T2	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/30/2024 21:01	15703	TANN_T2	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
7/30/2024 21:02	15702	TANN_T2	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/30/2024 21:02	15703	TANN_T2	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
7/30/2024 21:06	55001	NEWP_T1	0	0	0	0	0	0	-0.45	-0.46	1	1	0	600	600	0
7/30/2024 21:06	55002	NEWP_T1	4	4	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
7/30/2024 21:11	44801	EDAN_T2	1	1	0	0.6	0.5	-0.1	-2.67	-2.58	0	0	0	0	0	0
7/30/2024 21:12	55002	NEWP_T1	4	4	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
7/30/2024 21:12	55001	NEWP_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	600	600	0
7/30/2024 21:13	44801	EDAN_T2	1	1	0	0.6	0.5	-0.1	-1.34	-1.29	0	0	0	0	0	0
7/30/2024 21:16	55002	NEWP_T1	4	4	0	0.75	0.78	0.03	0	0	0	0	0	0	0	0
7/30/2024 21:16	55001	NEWP_T1	0	0	0	0	0	0	-0.93	-0.92	2	2	0	1200	1200	0
7/30/2024 21:22	44201	POIN_T1	16	49	33	0.13	0.16	0.03	-1.85	-1.9	2	2	0	2100	2100	0
7/30/2024 21:32	53601	DALM_T2	1	1	0	0.2	0.5	0.3	-0.47	-0.48	1	1	0	600	600	0
7/30/2024 21:32	47401	PENS_T1	0	0	0	0	0	0	0.2	0.15	0	0	0	0	0	0
7/30/2024 21:33	53501	EVIL_T2	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
7/30/2024 21:33	53502	EVIL_T2	0	0	0	0	0	0	0.49	0.51	1	1	0	600	600	0
7/30/2024 21:34	42802	SELI_T1	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
7/30/2024 21:35	53502	EVIL_T2	0	0	0	0	0	0	0.49	0.51	1	1	0	600	600	0
7/30/2024 21:35	53501	EVIL_T2	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
7/30/2024 21:35	42802	SELI_T1	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
7/30/2024 21:36	42802	SELI_T1	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
7/30/2024 21:39	42802	SELI_T1	0	0	0	0	0	0	-3.02	-2.93	0	0	0	0	0	0
7/30/2024 21:41	53903	HALI_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
7/30/2024 21:41	53901	HALI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/30/2024 21:41	53601	DALM_T2	1	1	0	0.2	0.5	0.3	-0.48	-0.52	1	1	0	600	600	0
7/30/2024 21:41	42802	SELI_T1	0	0	0	0	0	0	-1.01	-0.98	0	0	0	0	0	0
7/30/2024 21:41	53902	HALI_T2	1	1	0	4.7	5.1	0.4	-0.63	-0.65	0	0	0	0	0	0
7/30/2024 21:41	53501	EVIL_T2	1	2	1	0.4	0.25	-0.15	-0.44	-0.4	1	1	0	600	600	0
7/30/2024 21:42	42801	SELI_T1	0	0	0	0	0	0	-0.65	-0.65	1	1	0	1200	1200	0
7/30/2024 21:43	53501	EVIL_T2	1	2	1	0.4	0.25	-0.15	-0.44	-0.4	1	1	0	600	600	0
7/30/2024 21:43	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 21:43	47401	PENS_T1	0	0	0	0	0	0	0.15	0.1	0	0	0	0	0	0
7/30/2024 21:44	53501	EVIL_T2	1	2	1	0.4	0.25	-0.15	-0.44	-0.4	1	1	0	600	600	0
7/30/2024 21:44	53502	EVIL_T2	0	0	0	0	0	0	0.51	0.5	1	1	0	600	600	0
7/30/2024 21:45	53501	EVIL_T2	1	1	0	0.3	0.2	-0.1	-0.44	-0.4	1	1	0	600	600	0
7/30/2024 21:45	46203	DANV_T2	0	0	0	0	0	0	-0.28	-0.34	0	0	0	0	0	0
7/30/2024 21:46	42701	AUGU_T1	0	1	1	0	0.1	0.1	0	0	2	2	0	1800	1800	0
7/30/2024 21:46	53501	EVIL_T2	1	1	0	0.3	0.2	-0.1	-0.44	-0.4	1	1	0	600	600	0
7/30/2024 21:46	55101	WERT_T1	0	0	0	0	0	0	-1.74	-1.76	3	3	0	2400	2400	0
7/30/2024 21:47	47002	HUGH_T2	2	4	2	0.1	0.25	0.15	0	0	0	0	0	0	0	0
7/30/2024 21:47	55101	WERT_T1	0	0	0	0	0	0	-3.47	-3.51	6	6	0	4800	4800	0
7/30/2024 21:47	47001	HUGH_T2	3	3	0	6.87	7.27	0.4	-0.38	-0.36	0	0	0	0	0	0
7/30/2024 21:48	53501	EVIL_T2	1	1	0	0.3	0.2	-0.1	-0.44	-0.4	1	1	0	600	600	0
7/30/2024 21:48	47002	HUGH_T2	2	4	2	0.1	0.25	0.15	0	0	0	0	0	0	0	0
7/30/2024 21:48	47001	HUGH_T2	3	3	0	6.87	7.27	0.4	-0.38	-0.36	0	0	0	0	0	0
7/30/2024 21:48	53502	EVIL_T2	0	0	0	0	0	0	0.51	0.5	1	1	0	600	600	0
7/30/2024 21:49	46302	ROHR_T1	2	4	2	1.65	1.55	-0.1	0.68	0.73	0	0	0	0	0	0
7/30/2024 21:49	55101	WERT_T1	0	0	0	0	0	0	-3.47	-3.51	6	6	0	4800	4800	0
7/30/2024 21:50	44203	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 21:50	44202	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 21:51	43102	SMIL_T2	0	6	6	0	0.3	0.3	0	0	0	0	0	0	0	0
7/30/2024 21:51	55101	WERT_T1	0	0	0	0	0	0	-1.74	-1.76	3	3	0	2400	2400	0
7/30/2024 21:51	45501	DERR_T2	1	1	0	0.4	0	-0.4	0.97	0.39	2	2	0	1800	1800	0
7/30/2024 21:51	43105	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/30/2024 21:51	43103	SMIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/30/2024 21:51	43108	SMIL_T2	0	0	0	0	0	0	-1	-1.01	1	1	0	1200	1200	0
7/30/2024 21:52	43106	SMIL_T2	0	0	0	0	0	0	-1.32	-1.26	2	2	0	2400	2400	0
7/30/2024 21:52	44201	POIN_T1	49	94	45	0.16	0.26	0.1	-1.92	-1.96	2	2	0	2100	2100	0
7/30/2024 21:52	43103	SMIL_T2	0	2	2	0	0.15	0.15	-1.2	-1.21	0	0	0	0	0	0
7/30/2024 21:52	42701	AUGU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/30/2024 21:52	45502	DERR_T2	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
7/30/2024 21:52	45501	DERR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/30/2024 21:52	43102	SMIL_T2	0	6	6	0	0.3	0.3	0	0	0	0	0	0	0	0
7/30/2024 21:52	55101	WERT_T1	0	0	0	0	0	0	-1.76	-1.78	3	3	0	2400	2400	0
7/30/2024 21:52	43105	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/30/2024 21:53	53501	EVIL_T2	1	1	0	0.3	0.2	-0.1	-0.4	-0.41	1	1	0	600	600	0
7/30/2024 21:54	45502	DERR_T2	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
7/30/2024 21:54	45501	DERR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/30/2024 21:55	58701	ROSE_T2	0	0	0	0	0	0	-0.5	-0.52	1	1	0	600	600	0
7/30/2024 21:55	58706	ROSE_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
7/30/2024 21:55	58705	ROSE_T2	5	5	0	1.16	1.28	0.12	0	0	0	0	0	0	0	0
7/30/2024 21:55	55405	SHER_T1	6	9	3	0.2	0.4	0.2	-0.17	-0.17	0	0	0	0	0	0
7/30/2024 21:56	43105	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/30/2024 21:56	43103	SMIL_T2	0	2	2	0	0.15	0.15	-0.6	-0.6	0	0	0	0	0	0
7/30/2024 21:56	44202	POIN_T2	0	0	0	0	0	0	-0.4	-0.43	1	1	0	1200	1200	0
7/30/2024 21:56	44201	POIN_T1	49	94	45	0.16	0.26	0.1	-1.92	-1.96	2	2	0	2100	2100	0
7/30/2024 21:56	46301	ROHR_T1	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
7/30/2024 21:56	43102	SMIL_T2	0	6	6	0	0.3	0.3	0	0	0	0	0	0	0	0
7/30/2024 21:56	44203	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 21:56	46302	ROHR_T1	2	4	2	1.65	1.55	-0.1	0	0	0	0	0	0	0	0
7/30/2024 21:57	50502	MECH_T1	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
7/30/2024 21:57	50505	MECH_T1	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
7/30/2024 21:57	50501	MECH_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/30/2024 21:57	45901	AUBU_T1	0	0	0	0	0	0	0.93	1.76	0	0	0	0	0	0
7/30/2024 21:57	45902	AUBU_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
7/30/2024 21:58	43102	SMIL_T2	0	6	6	0	0.3	0.3	0	0	0	0	0	0	0	0
7/30/2024 21:58	43105	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/30/2024 21:58	43108	SMIL_T2	0	0	0	0	0	0	-1.01	-1.06	1	1	0	1200	1200	0
7/30/2024 21:58	43202	MVIL_T2	0	1	1	0	0.1	0.1	-0.53	-0.53	0	0	0	0	0	0
7/30/2024 21:58	43103	SMIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/30/2024 21:58	40101	HUNT_T2	4	11	7	0.28	0.35	0.07	-0.3	-0.27	0	0	0	0	0	0
7/30/2024 21:59	42701	AUGU_T1	0	1	1	0	0.1	0.1	0	0	2	2	0	1800	1800	0
7/30/2024 21:59	52503	PROG_T2	0	0	0	0	0	0	-0.28	-0.31	1	1	0	900	900	0
7/30/2024 22:00	54201	PENN_T1	9	3	-6	0.72	1.13	0.41	-0.35	-0.4	0	0	0	0	0	0
7/30/2024 22:00	54203	PENN_T1	18	5	-13	1.07	0.5	-0.57	0	0	0	0	0	0	0	0
7/30/2024 22:01	46203	DANV_T2	0	0	0	0	0	0	-0.34	-0.38	0	0	0	0	0	0
7/30/2024 22:01	42701	AUGU_T1	1	0	-1	0.1	0	-0.1	0	0	2	2	0	1800	1800	0
7/30/2024 22:02	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.39	0.19	2	2	0	1800	1800	0
7/30/2024 22:03	43102	SMIL_T2	6	6	0	0.15	0.53	0.38	0	0	0	0	0	0	0	0
7/30/2024 22:03	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.39	0.19	2	2	0	1800	1800	0
7/30/2024 22:03	40101	HUNT_T2	11	2	-9	0.48	0	-0.48	-0.3	-0.27	0	0	0	0	0	0
7/30/2024 22:03	43103	SMIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/30/2024 22:03	43105	SMIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/30/2024 22:03	54203	PENN_T1	18	5	-13	1.07	0.5	-0.57	0	0	0	0	0	0	0	0
7/30/2024 22:03	43108	SMIL_T2	0	0	0	0	0	0	-1.01	-1.06	1	1	0	1200	1200	0
7/30/2024 22:03	54201	PENN_T1	9	3	-6	0.72	1.13	0.41	-0.35	-0.4	0	0	0	0	0	0
7/30/2024 22:04	40201	BEGA_T2	1	4	3	0.2	0	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/30/2024 22:04	46203	DANV_T2	0	0	0	0	0	0	-0.34	-0.38	0	0	0	0	0	0
7/30/2024 22:05	45302	WBER_T2	0	0	0	0	0	0	1.34	1.29	0	0	0	0	0	0
7/30/2024 22:06	40201	BEGA_T2	1	4	3	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/30/2024 22:07	51002	NHAR_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
7/30/2024 22:07	51004	NHAR_T1	1	1	0	6.3	6.6	0.3	0	0	0	0	0	0	0	0
7/30/2024 22:07	51003	NHAR_T1	0	0	0	0	0	0	-1.38	-1.32	1	1	0	1200	1200	0
7/30/2024 22:08	40201	BEGA_T2	1	4	3	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/30/2024 22:08	57104	SPHI_T2	0	0	0	0	0	0	-0.33	-0.42	0	0	0	0	0	0
7/30/2024 22:08	40802	EXCH_T2	4	0	-4	0.15	0	-0.15	-0.11	-0.79	0	0	0	0	0	0
7/30/2024 22:08	57101	SPHI_T2	6	6	0	0.97	0.57	-0.4	0	0	0	0	0	0	0	0
7/30/2024 22:08	57106	SPHI_T2	3	3	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
7/30/2024 22:08	40801	EXCH_T2	6	0	-6	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/30/2024 22:08	45802	HEGI_T2	35	37	2	0.63	0.58	-0.05	0.42	0.46	1	1	0	300	300	0
7/30/2024 22:09	46001	BERW_T1	0	0	0	0	0	0	1.13	1.06	0	0	0	0	0	0
7/30/2024 22:09	27502	WEIS_T2	1	9	8	0.2	0.43	0.23	-0.14	-0.17	0	0	0	0	0	0
7/30/2024 22:09	57401	SPAN_T1	0	0	0	0	0	0	-0.98	-0.99	1	1	0	600	600	0
7/30/2024 22:10	20401	ASHF_T2	4	2	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/30/2024 22:10	41901	REED_T1	9	7	-2	1.04	0.31	-0.73	0	0	0	0	0	0	0	0
7/30/2024 22:10	24902	WHHA_T1	5	1	-4	0.56	0.4	-0.16	1	0.97	0	0	0	0	0	0
7/30/2024 22:10	16402	MOPO_T1	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
7/30/2024 22:10	41902	REED_T1	0	1	1	0	0	0	0.43	0.37	1	1	0	900	900	0
7/30/2024 22:10	57601	RUTH_T2	0	0	0	0	0	0	-0.98	-0.99	1	1	0	900	900	0
7/30/2024 22:10	20403	ASHF_T2	0	0	0	0	0	0	0.75	0.79	0	0	0	0	0	0
7/30/2024 22:10	42201	SHEN_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
7/30/2024 22:11	57401	SPAN_T1	0	0	0	0	0	0	-0.98	-0.99	1	1	0	600	600	0
7/30/2024 22:11	40201	BEGA_T2	1	4	3	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/30/2024 22:11	41901	REED_T1	9	7	-2	1.04	0.31	-0.73	0	0	0	0	0	0	0	0
7/30/2024 22:11	41902	REED_T1	0	1	1	0	0	0	0.43	0.37	1	1	0	900	900	0
7/30/2024 22:12	29402	BELT_T1	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
7/30/2024 22:12	43202	MVIL_T2	0	1	1	0	0.1	0.1	-0.53	-0.54	0	0	0	0	0	0
7/30/2024 22:12	56501	ROCK_T2	22	3	-19	0.51	0.25	-0.26	0	0	0	0	0	0	0	0
7/30/2024 22:12	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.19	0.31	2	2	0	1800	1800	0
7/30/2024 22:12	43102	SMIL_T2	6	6	0	0.15	0.53	0.38	0	0	0	0	0	0	0	0
7/30/2024 22:12	29401	BELT_T1	18	0	-18	0.16	0	-0.16	0	0	1	1	0	900	900	0
7/30/2024 22:12	43105	SMIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/30/2024 22:12	56504	ROCK_T2	3	25	22	0.2	0.43	0.23	0	0.01	0	0	0	0	0	0
7/30/2024 22:12	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:12	43103	SMIL_T2	0	2	2	0	0.15	0.15	-0.6	-0.62	0	0	0	0	0	0
7/30/2024 22:13	47401	PENS_T1	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
7/30/2024 22:13	15603	NSTR_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
7/30/2024 22:13	43102	SMIL_T2	6	6	0	0.15	0.53	0.38	0	0	0	0	0	0	0	0
7/30/2024 22:13	48301	ORWI_T1	2	2	0	2.6	2.65	0.05	0.76	0.73	0	0	0	0	0	0
7/30/2024 22:13	52002	LING_T2	0	0	0	0	0	0	0.54	0.47	0	0	0	0	0	0
7/30/2024 22:13	43103	SMIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/30/2024 22:13	57401	SPAN_T1	0	0	0	0	0	0	-0.98	-0.99	1	1	0	600	600	0
7/30/2024 22:13	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.19	0.31	2	2	0	1800	1800	0
7/30/2024 22:13	13501	MCMI_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
7/30/2024 22:13	43105	SMIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/30/2024 22:13	52004	LING_T2	2	2	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
7/30/2024 22:13	23001	SAJO_T1	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
7/30/2024 22:13	15601	NSTR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/30/2024 22:14	52204	DEVO_T2	3	3	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
7/30/2024 22:14	57401	SPAN_T1	0	0	0	0	0	0	-0.98	-0.99	1	1	0	600	600	0
7/30/2024 22:14	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.19	0.31	2	2	0	1800	1800	0
7/30/2024 22:14	24902	WHHA_T1	5	1	-4	0.56	0.4	-0.16	1	0.97	0	0	0	0	0	0
7/30/2024 22:14	40802	EXCH_T2	4	0	-4	0.15	0	-0.15	-0.11	-0.79	0	0	0	0	0	0
7/30/2024 22:14	40801	EXCH_T2	6	0	-6	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/30/2024 22:14	13503	MCMI_T2	15	30	15	0.17	0.2	0.03	-0.66	-0.66	0	0	0	0	0	0
7/30/2024 22:14	52202	DEVO_T2	0	0	0	0	0	0	-0.88	-0.93	0	0	0	0	0	0
7/30/2024 22:14	57702	PAXT_T1	0	0	0	0	0	0	-0.37	-0.43	0	0	0	0	0	0
7/30/2024 22:15	43105	SMIL_T2	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/30/2024 22:15	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:15	52004	LING_T2	2	2	0	5.75	5.9	0.15	0	0	0	0	0	0	0	0
7/30/2024 22:15	43103	SMIL_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/30/2024 22:15	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/30/2024 22:15	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:15	45501	DERR_T2	0	0	0	0	0	0	0.19	0.31	2	2	0	1800	1800	0
7/30/2024 22:15	13503	MCMI_T2	23	51	28	0.15	0.26	0.11	-0.66	-0.66	0	0	0	0	0	0
7/30/2024 22:15	43104	SMIL_T2	0	0	0	0	0	0	-0.56	-0.57	1	1	0	300	300	0
7/30/2024 22:15	52002	LING_T2	0	0	0	0	0	0	0.54	0.47	0	0	0	0	0	0
7/30/2024 22:15	43102	SMIL_T2	6	6	0	0.3	0.53	0.23	0	0	0	0	0	0	0	0
7/30/2024 22:15	40502	CRES_T2	2	2	0	0.15	0.15	0	-0.29	-0.35	0	0	0	0	0	0
7/30/2024 22:15	21206	ECAR_T2	5	2	-3	1.76	8	6.24	0.61	0.55	0	0	0	0	0	0
7/30/2024 22:15	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:15	20403	ASHF_T2	0	0	0	0	0	0	2.25	2.38	0	0	0	0	0	0
7/30/2024 22:15	43301	WATS_T2	0	0	0	0	0	0	0.61	0.58	0	0	0	0	0	0
7/30/2024 22:16	42802	SELI_T1	0	1	1	0	0.5	0.5	-1.07	-1.14	0	0	0	0	0	0
7/30/2024 22:16	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/30/2024 22:16	41901	REED_T1	7	2	-5	0.31	0.2	-0.11	0	0	0	0	0	0	0	0
7/30/2024 22:16	20403	ASHF_T2	0	0	0	0	0	0	0.75	0.79	0	0	0	0	0	0
7/30/2024 22:16	52002	LING_T2	0	0	0	0	0	0	0.54	0.47	0	0	0	0	0	0
7/30/2024 22:16	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:16	42801	SELI_T1	1	0	-1	10	0	-10	0	0	0	0	0	0	0	0
7/30/2024 22:16	41902	REED_T1	0	1	1	0	0	0	0.43	0.37	1	1	0	900	900	0
7/30/2024 22:16	47401	PENS_T1	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
7/30/2024 22:16	40603	PIGR_T1	0	0	0	0	0	0	0.6	0.57	0	0	0	0	0	0
7/30/2024 22:16	52004	LING_T2	2	2	0	5.75	5.9	0.15	0	0	0	0	0	0	0	0
7/30/2024 22:17	42802	SELI_T1	0	1	1	0	0.5	0.5	-1.07	-1.14	0	0	0	0	0	0
7/30/2024 22:17	27302	PARR_T1	0	0	0	0	0	0	-0.71	0.54	0	0	0	0	0	0
7/30/2024 22:17	20601	GRWO_T2	98	52	-46	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
7/30/2024 22:17	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
7/30/2024 22:17	42801	SELI_T1	1	0	-1	10	0	-10	0	0	0	0	0	0	0	0
7/30/2024 22:17	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:17	43103	SMIL_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/30/2024 22:17	43105	SMIL_T2	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/30/2024 22:17	20603	GRWO_T2	0	0	0	0	0	0	-0.38	-0.4	1	1	0	900	900	0
7/30/2024 22:17	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/30/2024 22:17	43104	SMIL_T2	0	0	0	0	0	0	-0.56	-0.57	1	1	0	300	300	0
7/30/2024 22:17	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:17	40502	CRES_T2	2	2	0	0.15	0.15	0	-0.58	-0.7	0	0	0	0	0	0
7/30/2024 22:17	43102	SMIL_T2	6	6	0	0.3	0.53	0.23	0	0	0	0	0	0	0	0
7/30/2024 22:18	16402	MOPO_T1	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
7/30/2024 22:18	57702	PAXT_T1	0	0	0	0	0	0	-0.37	-0.43	0	0	0	0	0	0
7/30/2024 22:18	24902	WHHA_T1	1	2	1	0.6	0	-0.6	1	0.97	0	0	0	0	0	0
7/30/2024 22:18	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:18	42801	SELI_T1	1	0	-1	10	0	-10	0	0	0	0	0	0	0	0
7/30/2024 22:18	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:18	22901	HARW_T1	0	0	0	0	0	0	-0.1	-0.24	1	1	0	1200	1200	0
7/30/2024 22:18	22903	HARW_T1	0	11	11	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:18	42802	SELI_T1	0	1	1	0	0.5	0.5	-1.07	-1.14	0	0	0	0	0	0
7/30/2024 22:18	40502	CRES_T2	2	2	0	0.15	0.15	0	-0.29	-0.35	0	0	0	0	0	0
7/30/2024 22:18	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:19	26401	INOR_T1	1	1	0	7.4	7.8	0.4	0	0	0	0	0	0	0	0
7/30/2024 22:19	22905	HARW_T1	0	0	0	0	0	0	-0.35	-0.4	0	0	0	0	0	0
7/30/2024 22:19	26402	INOR_T1	0	0	0	0	0	0	-0.92	-0.93	0	0	0	0	0	0
7/30/2024 22:19	22903	HARW_T1	0	11	11	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:19	45501	DERR_T2	0	0	0	0	0	0	0.38	0.62	4	4	0	3600	3600	0
7/30/2024 22:20	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:20	42201	SHEN_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
7/30/2024 22:20	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/30/2024 22:20	47401	PENS_T1	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
7/30/2024 22:20	47203	FAXO_T2	1	1	0	0.5	0.5	0	-1.74	-1.77	1	1	0	1200	1200	0
7/30/2024 22:20	40502	CRES_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
7/30/2024 22:20	23401	HONE_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
7/30/2024 22:21	55001	NEWP_T1	0	0	0	0	0	0	-0.59	-0.59	1	1	0	600	600	0
7/30/2024 22:21	43105	SMIL_T2	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/30/2024 22:21	43102	SMIL_T2	6	6	0	0.3	0.53	0.23	0	0	0	0	0	0	0	0
7/30/2024 22:21	52402	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
7/30/2024 22:21	43104	SMIL_T2	0	0	0	0	0	0	-0.56	-0.57	1	1	0	300	300	0
7/30/2024 22:21	43103	SMIL_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
7/30/2024 22:21	46001	BERW_T1	0	0	0	0	0	0	1.13	1.06	0	0	0	0	0	0
7/30/2024 22:21	52404	GRPA_T2	0	0	0	0	0	0	0.03	-0.02	0	0	0	0	0	0
7/30/2024 22:21	52403	GRPA_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/30/2024 22:21	55002	NEWP_T1	2	2	0	0.15	0.65	0.5	0	0	0	0	0	0	0	0
7/30/2024 22:21	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/30/2024 22:21	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
7/30/2024 22:22	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:22	25501	MADI_T1	3	0	-3	0.53	0	-0.53	0	0	0	0	0	0	0	0
7/30/2024 22:22	25503	MADI_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
7/30/2024 22:22	46101	MACI_T2	0	0	0	0	0	0	1.65	1.62	0	0	0	0	0	0
7/30/2024 22:22	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/30/2024 22:22	47401	PENS_T1	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
7/30/2024 22:22	40502	CRES_T2	2	2	0	0.15	0.15	0	-0.35	-0.39	0	0	0	0	0	0
7/30/2024 22:22	54701	NEBL_T1	0	1	1	0	0.8	0.8	0	0	1	1	0	600	600	0
7/30/2024 22:22	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
7/30/2024 22:22	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:22	40505	CRES_T1	3	3	0	4.03	4.33	0.3	0.62	0.57	0	0	0	0	0	0
7/30/2024 22:22	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:23	42801	SELI_T1	1	0	-1	10	0	-10	0	0	0	0	0	0	0	0
7/30/2024 22:23	45501	DERR_T2	0	0	0	0	0	0	0.31	0.36	2	2	0	1800	1800	0
7/30/2024 22:23	42802	SELI_T1	0	1	1	0	0.5	0.5	-1.14	-1.15	0	0	0	0	0	0
7/30/2024 22:23	45302	WBER_T2	0	0	0	0	0	0	1.3	1.3	0	0	0	0	0	0
7/30/2024 22:24	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:24	46506	LOHA_T1	344	439	95	0.39	0.42	0.03	-1.94	-1.94	2	2	0	2100	2100	0
7/30/2024 22:24	40502	CRES_T2	2	2	0	0.15	0.15	0	-0.35	-0.39	0	0	0	0	0	0
7/30/2024 22:24	46102	MACI_T1	0	0	0	0	0	0	0.91	0.88	0	0	0	0	0	0
7/30/2024 22:24	24902	WHHA_T1	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/30/2024 22:24	52002	LING_T2	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
7/30/2024 22:24	24901	WHHA_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
7/30/2024 22:24	46504	LOHA_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/30/2024 22:24	52004	LING_T2	2	2	0	5.75	5.9	0.15	0	0	0	0	0	0	0	0
7/30/2024 22:26	22903	HARW_T1	0	11	11	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:26	64202	KINZ_T1	2	3	1	0.45	0.33	-0.12	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/30/2024 22:26	64201	KINZ_T1	1	18	17	1.4	0.24	-1.16	0	0	0	0	0	0	0	0
7/30/2024 22:26	64203	KINZ_T1	0	9	9	0	0.1	0.1	0.06	0.07	1	1	0	600	600	0
7/30/2024 22:26	64204	KINZ_T1	1	1	0	1.2	0.6	-0.6	0	0	0	0	0	0	0	0
7/30/2024 22:26	22901	HARW_T1	0	0	0	0	0	0	-0.24	-0.12	1	1	0	1200	1200	0
7/30/2024 22:26	46504	LOHA_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
7/30/2024 22:26	46506	LOHA_T1	344	439	95	0.39	0.42	0.03	-1.94	-1.94	2	2	0	2100	2100	0
7/30/2024 22:27	52402	GRPA_T2	0	3	3	0	0.2	0.2	-0.41	-0.45	0	0	0	0	0	0
7/30/2024 22:27	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/30/2024 22:27	52403	GRPA_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/30/2024 22:28	58302	NOTT_T1	0	0	0	0	0	0	-0.21	-0.12	1	1	0	1200	1200	0
7/30/2024 22:28	52403	GRPA_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/30/2024 22:28	58003	WCAR_T1	1	1	0	0.6	1	0.4	0.98	0.98	0	0	0	0	0	0
7/30/2024 22:28	58001	WCAR_T1	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
7/30/2024 22:28	52402	GRPA_T2	0	3	3	0	0.2	0.2	-0.41	-0.45	0	0	0	0	0	0
7/30/2024 22:28	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/30/2024 22:29	42903	MIDD_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
7/30/2024 22:30	52401	GRPA_T2	0	1	1	0	0.5	0.5	-0.36	-0.37	0	0	0	0	0	0
7/30/2024 22:30	52402	GRPA_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
7/30/2024 22:30	59101	WALK_T2	1	0	-1	0.1	0	-0.1	0.3	0.93	2	1	-1	1200	600	-600
7/30/2024 22:30	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:31	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/30/2024 22:31	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:31	46506	LOHA_T1	439	14	-425	0.42	0.15	-0.27	-1.94	-1.94	2	2	0	2100	2100	0
7/30/2024 22:31	44301	BEAV_T2	0	0	0	0	0	0	-0.39	-0.44	1	1	0	600	600	0
7/30/2024 22:31	52402	GRPA_T2	0	4	4	0	0.18	0.18	-0.41	-0.45	0	0	0	0	0	0
7/30/2024 22:31	46504	LOHA_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/30/2024 22:32	52403	GRPA_T2	0	1	1	0	0	0	-0.29	-0.29	0	0	0	0	0	0
7/30/2024 22:32	52402	GRPA_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
7/30/2024 22:32	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/30/2024 22:33	46504	LOHA_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/30/2024 22:33	46506	LOHA_T1	439	14	-425	0.42	0.15	-0.27	-1.94	-1.94	2	2	0	2100	2100	0
7/30/2024 22:33	50501	MECH_T1	0	1	1	0	0.1	0.1	-0.49	-0.79	0	0	0	0	0	0
7/30/2024 22:33	50502	MECH_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
7/30/2024 22:33	44301	BEAV_T2	0	0	0	0	0	0	-0.39	-0.44	1	1	0	600	600	0
7/30/2024 22:33	58402	MORO_T1	0	0	0	0	0	0	0.18	0.15	2	2	0	1500	1500	0
7/30/2024 22:34	59101	WALK_T2	1	0	-1	0.1	0	-0.1	0.89	2.8	6	3	-3	3600	1800	-1800
7/30/2024 22:34	52402	GRPA_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
7/30/2024 22:34	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/30/2024 22:34	52403	GRPA_T2	0	1	1	0	0	0	-0.29	-0.29	0	0	0	0	0	0
7/30/2024 22:35	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2024 22:36	40901	JESH_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
7/30/2024 22:36	40902	JESH_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
7/30/2024 22:37	42802	SELI_T1	1	1	0	0.5	0.5	0	-1.15	-1.13	0	0	0	0	0	0
7/30/2024 22:38	44301	BEAV_T2	0	0	0	0	0	0	-0.44	-0.25	1	1	0	600	600	0
7/30/2024 22:39	41002	LAUR_T2	52	56	4	0.33	0.45	0.12	0.23	0.21	0	0	0	0	0	0
7/30/2024 22:39	52403	GRPA_T2	0	1	1	0	0	0	-0.29	-0.3	0	0	0	0	0	0
7/30/2024 22:39	41001	LAUR_T2	64	69	5	0.4	0.49	0.09	0	0	0	0	0	0	0	0
7/30/2024 22:39	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/30/2024 22:39	52402	GRPA_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
7/31/2024 0:00	67401	WAKE_T2	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
7/31/2024 0:00	67103	SPRI_T1	0	0	0	0	0	0	-0.7	-0.76	0	0	0	0	0	0
7/31/2024 0:00	66902	SHIL_T2	2	32	30	0.1	0.14	0.04	0	0	0	0	0	0	0	0
7/31/2024 0:00	67801	WLAN_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/31/2024 0:00	64201	KINZ_T1	1	13	12	1.6	0.27	-1.33	-1.12	-1.3	10	10	0	6000	6000	0
7/31/2024 0:00	61102	BERK_T5	0	0	0	0	0	0	0.95	1.08	6	6	0	1800	1800	0
7/31/2024 0:00	60502	NMAN_T2	0	0	0	0	0	0	0.13	-0.1	0	0	0	0	0	0
7/31/2024 0:00	64902	MILL_T2	0	0	0	0	0	0	-1.85	-1.72	2	2	0	1800	1800	0
7/31/2024 0:00	64204	KINZ_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
7/31/2024 0:00	62101	ELAN_T1	0	0	0	0	0	0	0.93	0.62	1	1	0	900	900	0
7/31/2024 0:00	67604	WARW_T1	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
7/31/2024 0:00	67803	WLAN_T1	0	0	0	0	0	0	-1.21	-1.2	0	0	0	0	0	0
7/31/2024 0:00	64203	KINZ_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
7/31/2024 0:00	65901	SAKR_T2	1	1	0	8.6	9	0.4	-1.16	-1.22	2	2	0	1500	1500	0
7/31/2024 0:00	65401	MARI_T1	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
7/31/2024 0:00	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/31/2024 0:00	66903	SHIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
7/31/2024 0:00	67602	WARW_T2	0	0	0	0	0	0	2.28	1.87	10	10	0	7500	7500	0
7/31/2024 0:00	63401	HONY_T1	0	0	0	0	0	0	0.14	0.13	1	1	0	600	600	0
7/31/2024 0:00	60201	ATGL_T2	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
7/31/2024 0:00	61301	EARL_T1	0	0	0	0	0	0	-1.38	-1.37	2	2	0	1800	1800	0
7/31/2024 0:00	65003	NEFF_T2	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
7/31/2024 0:00	67603	WARW_T1	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
7/31/2024 0:00	63304	GREE_T1	0	0	0	0	0	0	-2.77	-2.83	0	0	0	0	0	0
7/31/2024 0:00	67505	WEWI_T1	0	0	0	0	0	0	0.33	0.33	1	1	0	900	900	0
7/31/2024 0:00	63305	GREE_T1	0	0	0	0	0	0	-1.82	-1.92	1	1	0	900	900	0
7/31/2024 0:00	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 0:00	66901	SHIL_T2	74	205	131	0.12	0.26	0.14	-1.12	-1.12	1	1	0	1200	1200	0
7/31/2024 0:00	67804	WLAN_T1	8	3	-5	0.31	0.1	-0.21	0	0	0	0	0	0	0	0
7/31/2024 0:00	62604	PAGL_T1	0	0	0	0	0	0	-1.18	-1.21	1	1	0	600	600	0
7/31/2024 0:00	65001	NEFF_T2	0	0	0	0	0	0	-0.65	-0.72	1	1	0	1200	1200	0
7/31/2024 0:00	61703	ELIZ_T1	0	0	0	0	0	0	-8.4	-8.35	8	8	0	8400	8400	0
7/31/2024 0:00	67605	WARW_T1	3	1	-2	0.9	0.7	-0.2	-0.95	-0.98	0	0	0	0	0	0
7/31/2024 0:00	64101	REFR_T1	0	0	0	0	0	0	4.29	4.1	0	0	0	0	0	0
7/31/2024 0:00	61701	ELIZ_T1	1	1	0	4.2	3.7	-0.5	3.13	2.57	0	0	0	0	0	0
7/31/2024 0:00	64302	LINC_T2	0	0	0	0	0	0	1.26	1.22	0	0	0	0	0	0
7/31/2024 0:00	64202	KINZ_T1	2	3	1	0.25	0.37	0.12	0	0	0	0	0	0	0	0
7/31/2024 0:00	64704	LITI_T1	0	0	0	0	0	0	0.54	0.43	1	1	0	600	600	0
7/31/2024 0:00	60101	COCA_T1	1	0	-1	0.1	0	-0.1	1.96	1.88	0	0	0	0	0	0
7/31/2024 0:08	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 0:50	43104	SMIL_T2	0	0	0	0	0	0	-0.66	-0.66	1	1	0	300	300	0
7/31/2024 0:54	64305	LINC_T1	1	1	0	0.4	0.5	0.1	-0.31	-0.27	0	0	0	0	0	0
7/31/2024 1:21	45501	DERR_T2	0	0	0	0	0	0	0.16	0.11	2	2	0	1800	1800	0
7/31/2024 1:26	64101	REFR_T1	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
7/31/2024 7:23	61103	BERK_T5	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
7/31/2024 7:23	61102	BERK_T5	0	0	0	0	0	0	0.65	0.75	1	1	0	300	300	0
7/31/2024 7:27	61102	BERK_T5	0	0	0	0	0	0	1.3	1.5	2	2	0	600	600	0
7/31/2024 7:30	63306	GREE_T1	0	0	0	0	0	0	-1.93	-1.9	1	1	0	900	900	0
7/31/2024 7:30	63305	GREE_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
7/31/2024 7:31	20601	GRWO_T2	12	8	-4	0.51	0.47	-0.04	1.14	1.14	0	0	0	0	0	0
7/31/2024 7:38	65702	RVIL_T2	0	0	0	0	0	0	-0.78	-0.69	1	1	0	600	600	0
7/31/2024 7:47	63304	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 7:47	63305	GREE_T1	1	0	-1	0.1	0	-0.1	-1.69	-1.65	1	1	0	900	900	0
7/31/2024 7:49	46102	MACI_T1	0	0	0	0	0	0	0.91	0.92	0	0	0	0	0	0
7/31/2024 7:51	23001	SAJO_T1	0	0	0	0	0	0	-1.21	-1.22	0	0	0	0	0	0
7/31/2024 7:54	53601	DALM_T2	1	1	0	0.7	0.9	0.2	-0.77	-0.71	1	1	0	900	900	0
7/31/2024 8:02	46602	LACR_T1	0	1	1	0	0.1	0.1	-0.74	-0.75	0	0	0	0	0	0
7/31/2024 8:10	45501	DERR_T2	3	2	-1	0.67	0.7	0.03	1.05	1.06	2	2	0	1800	1800	0
7/31/2024 8:10	45502	DERR_T2	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/31/2024 8:11	42302	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 8:11	42301	MOWR_T2	19	2	-17	0.36	0.6	0.24	0	0	0	0	0	0	0	0
7/31/2024 8:12	45502	DERR_T2	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/31/2024 8:12	45501	DERR_T2	3	2	-1	0.67	0.7	0.03	1.05	1.06	2	2	0	1800	1800	0
7/31/2024 8:19	28102	TWLA_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
7/31/2024 8:23	29402	BELT_T1	1	1	0	9.1	9.2	0.1	0	0	0	0	0	0	0	0
7/31/2024 8:25	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 8:26	29402	BELT_T1	1	1	0	9.1	9.2	0.1	0	0	0	0	0	0	0	0
7/31/2024 8:26	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 8:28	45602	WOOL_T1	0	0	0	0	0	0	0.95	0.96	0	0	0	0	0	0
7/31/2024 8:30	45602	WOOL_T1	0	0	0	0	0	0	0.95	0.96	0	0	0	0	0	0
7/31/2024 8:30	40101	HUNT_T2	1	1	0	0.2	0	-0.2	-0.23	-0.18	0	0	0	0	0	0
7/31/2024 8:30	42301	MOWR_T2	1	2	1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
7/31/2024 8:32	42301	MOWR_T2	1	2	1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
7/31/2024 8:34	57403	SPAN_T1	5	6	1	0.1	0.1	0	0.14	0.14	0	0	0	0	0	0
7/31/2024 8:34	57401	SPAN_T1	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/31/2024 8:36	57001	WHHI_T2	0	0	0	0	0	0	-0.93	-0.8	1	1	0	900	900	0
7/31/2024 8:36	57002	WHHI_T2	0	0	0	0	0	0	-1.92	-1.93	1	1	0	1200	1200	0
7/31/2024 8:36	67803	WLAN_T1	0	0	0	0	0	0	-1.23	-1.22	0	0	0	0	0	0
7/31/2024 8:37	67803	WLAN_T1	0	0	0	0	0	0	-1.23	-1.22	0	0	0	0	0	0
7/31/2024 8:37	52501	PROG_T1	0	0	0	0	0	0	0.45	0.49	1	1	0	300	300	0
7/31/2024 8:38	57002	WHHI_T2	0	0	0	0	0	0	-1.93	-1.88	1	1	0	1200	1200	0
7/31/2024 8:38	59101	WALK_T2	1	1	0	1.9	1.1	-0.8	3.27	3.43	2	2	0	1200	1200	0
7/31/2024 8:38	67803	WLAN_T1	0	0	0	0	0	0	-1.23	-1.22	0	0	0	0	0	0
7/31/2024 8:38	57004	WHHI_T2	0	0	0	0	0	0	-0.73	-0.64	0	0	0	0	0	0
7/31/2024 8:39	67803	WLAN_T1	0	0	0	0	0	0	-1.23	-1.22	0	0	0	0	0	0
7/31/2024 8:40	57002	WHHI_T2	0	0	0	0	0	0	-1.93	-1.88	1	1	0	1200	1200	0
7/31/2024 8:41	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 8:41	44203	POIN_T2	0	0	0	0	0	0	-0.39	-0.33	3	3	0	3300	3300	0
7/31/2024 8:42	24702	FLND_T2	0	7	7	0	0.8	0.8	0.74	0.53	1	1	0	1200	1200	0
7/31/2024 8:42	24703	FLND_T2	1	0	-1	9.4	0	-9.4	0	0	0	0	0	0	0	0
7/31/2024 8:43	41301	FISH_T1	3	3	0	0.97	1.5	0.53	0	0	0	0	0	0	0	0
7/31/2024 8:44	41301	FISH_T1	3	3	0	0.97	1.5	0.53	0	-0.02	0	0	0	0	0	0
7/31/2024 8:45	64203	KINZ_T1	1	1	0	0.6	0.4	-0.2	0.02	0.13	3	3	0	2100	2100	0
7/31/2024 8:45	64204	KINZ_T1	2	2	0	0.7	1	0.3	0	0	0	0	0	0	0	0
7/31/2024 8:47	52004	LING_T2	2	2	0	5.9	5.7	-0.2	0.29	0.29	0	0	0	0	0	0
7/31/2024 8:50	44201	POIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 8:51	44201	POIN_T1	0	0	0	0	0	0	-0.5	-0.41	4	4	0	4200	4200	0
7/31/2024 8:52	44201	POIN_T1	0	0	0	0	0	0	-0.41	-3.05	4	4	0	4200	4200	0
7/31/2024 8:54	46503	LOHA_T1	0	0	0	0	0	0	-0.56	-0.55	0	0	0	0	0	0
7/31/2024 8:54	46506	LOHA_T1	344	340	-4	0.33	0.34	0.01	0	0	0	0	0	0	0	0
7/31/2024 8:54	44201	POIN_T1	0	0	0	0	0	0	-0.21	-1.53	2	2	0	2100	2100	0
7/31/2024 8:54	46501	LOHA_T1	1	1	0	2.5	0	-2.5	0	0	0	0	0	0	0	0
7/31/2024 8:55	60201	ATGL_T2	0	0	0	0	0	0	1.52	1.44	0	0	0	0	0	0
7/31/2024 9:02	41902	REED_T1	1	4	3	0.1	0.4	0.3	0.52	0.59	1	1	0	900	900	0
7/31/2024 9:05	48302	ORWI_T2	2	1	-1	0.3	0.2	-0.1	-0.34	-0.33	0	0	0	0	0	0
7/31/2024 9:08	41902	REED_T1	1	4	3	0.1	0.4	0.3	0.59	0.62	1	1	0	900	900	0
7/31/2024 9:12	45501	DERR_T2	1	2	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
7/31/2024 9:12	45502	DERR_T2	1	3	2	1.1	1.3	0.2	0.02	0.26	1	1	0	300	300	0
7/31/2024 9:15	40101	HUNT_T2	10	5	-5	0.37	0.45	0.08	-0.01	-0.11	0	0	0	0	0	0
7/31/2024 9:15	45802	HEGI_T2	9	11	2	0.32	0.3	-0.02	0.25	0.62	2	1	-1	1200	900	-300
7/31/2024 9:16	42301	MOWR_T2	1	1	0	1.9	0	-1.9	0	0	0	0	0	0	0	0
7/31/2024 9:16	45802	HEGI_T2	9	11	2	0.32	0.3	-0.02	0.25	0.62	2	1	-1	1200	900	-300
7/31/2024 9:19	42201	SHEN_T2	0	0	0	0	0	0	0.08	0.09	1	1	0	600	600	0
7/31/2024 9:22	56501	ROCK_T2	2	1	-1	0.15	0	-0.15	-1.77	-1.6	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/31/2024 9:23	56501	ROCK_T2	2	1	-1	0.15	0	-0.15	-0.88	-0.8	0	0	0	0	0	0
7/31/2024 9:27	23401	HONE_T2	0	0	0	0	0	0	-0.16	-0.11	0	0	0	0	0	0
7/31/2024 9:31	46102	MACI_T1	0	0	0	0	0	0	0.92	0.93	0	0	0	0	0	0
7/31/2024 9:36	42801	SELI_T1	0	0	0	0	0	0	-0.34	-0.27	1	1	0	1200	1200	0
7/31/2024 9:37	15702	TANN_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
7/31/2024 9:37	20402	ASHF_T2	6	6	0	0.42	0	-0.42	0	0	0	0	0	0	0	0
7/31/2024 9:37	15703	TANN_T2	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
7/31/2024 9:37	20401	ASHF_T2	4	4	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
7/31/2024 9:37	20403	ASHF_T2	0	0	0	0	0	0	1.76	1.39	0	0	0	0	0	0
7/31/2024 9:38	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 9:38	20403	ASHF_T2	0	0	0	0	0	0	1.76	1.39	0	0	0	0	0	0
7/31/2024 9:38	20401	ASHF_T2	4	4	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
7/31/2024 9:38	42301	MOWR_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
7/31/2024 9:38	20402	ASHF_T2	6	6	0	0.42	0	-0.42	0	0	0	0	0	0	0	0
7/31/2024 9:39	15703	TANN_T2	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
7/31/2024 9:39	15702	TANN_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
7/31/2024 9:42	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/31/2024 9:46	40101	HUNT_T2	4	43	39	0.53	0.36	-0.17	-0.06	-0.03	0	0	0	0	0	0
7/31/2024 9:47	43202	MVIL_T2	1	0	-1	0.1	0	-0.1	-0.45	-0.43	0	0	0	0	0	0
7/31/2024 9:48	52004	LING_T2	2	2	0	4.9	5.05	0.15	0.33	0.38	0	0	0	0	0	0
7/31/2024 9:49	57401	SPAN_T1	0	2	2	0	0	0	-1.15	-1.12	1	1	0	600	600	0
7/31/2024 9:49	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
7/31/2024 9:49	15702	TANN_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
7/31/2024 9:51	57401	SPAN_T1	0	2	2	0	0	0	-3.46	-3.37	3	3	0	1800	1800	0
7/31/2024 9:52	57401	SPAN_T1	0	2	2	0	0	0	-1.12	-1.09	1	1	0	600	600	0
7/31/2024 9:53	20402	ASHF_T2	6	0	-6	1.4	0	-1.4	0	0	0	0	0	0	0	0
7/31/2024 9:53	15702	TANN_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
7/31/2024 9:53	20403	ASHF_T2	0	0	0	0	0	0	1.39	1.62	0	0	0	0	0	0
7/31/2024 9:53	20401	ASHF_T2	4	4	0	1.28	0.7	-0.58	0	0	0	0	0	0	0	0
7/31/2024 9:53	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
7/31/2024 9:56	57401	SPAN_T1	0	2	2	0	0	0	-1.12	-1.09	1	1	0	600	600	0
7/31/2024 9:58	20601	GRWO_T2	95	132	37	0.52	0.6	0.08	1.21	1.25	0	0	0	0	0	0
7/31/2024 10:00	52404	GRPA_T2	0	0	0	0	0	0	2.03	2.08	0	0	0	0	0	0
7/31/2024 10:00	59101	WALK_T2	0	1	1	0	0	0	2.23	1.55	1	2	1	600	1200	600
7/31/2024 10:00	48302	ORWI_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
7/31/2024 10:00	41902	REED_T1	4	9	5	0.33	0.56	0.23	1.3	1.31	2	2	0	1800	1800	0
7/31/2024 10:00	52403	GRPA_T2	7	5	-2	0.71	0.95	0.24	0	0	0	0	0	0	0	0
7/31/2024 10:00	40505	CRES_T1	4	4	0	2.55	2.1	-0.45	0.77	0.74	0	0	0	0	0	0
7/31/2024 10:00	24902	WHHA_T1	2	10	8	0.9	0.93	0.03	0.89	0.89	0	0	0	0	0	0
7/31/2024 10:00	57702	PAKT_T1	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
7/31/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
7/31/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.36	0.4	0	0	0	0	0	0
7/31/2024 10:01	40101	HUNT_T2	20	135	115	0.35	0.41	0.06	-0.03	0.14	0	0	0	0	0	0
7/31/2024 10:06	56501	ROCK_T2	1	6	5	0.1	0.3	0.2	-0.75	-1.96	0	0	0	0	0	0
7/31/2024 10:07	56501	ROCK_T2	1	6	5	0.1	0.3	0.2	-1.96	-1.9	0	0	0	0	0	0
7/31/2024 10:07	59101	WALK_T2	0	1	1	0	0	0	1.55	1.75	2	2	0	1200	1200	0
7/31/2024 10:08	67803	WLAN_T1	0	0	0	0	0	0	-1.18	-1.17	0	0	0	0	0	0
7/31/2024 10:09	56501	ROCK_T2	1	6	5	0.1	0.3	0.2	-5.89	-5.69	0	0	0	0	0	0
7/31/2024 10:09	20401	ASHF_T2	4	5	1	0.7	1.13	0.43	0	0	0	0	0	0	0	0
7/31/2024 10:09	20403	ASHF_T2	0	10	10	0	0	0	3.23	4.12	0	0	0	0	0	0
7/31/2024 10:09	45501	DERR_T2	9	19	10	0.87	0.84	-0.03	0	0	0	0	0	0	0	0
7/31/2024 10:09	45502	DERR_T2	36	85	49	0.4	0.36	-0.04	0.27	0.35	1	1	0	300	300	0
7/31/2024 10:09	20402	ASHF_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 10:10	56501	ROCK_T2	1	6	5	0.1	0.3	0.2	-1.96	-1.9	0	0	0	0	0	0
7/31/2024 10:11	46206	DANV_T2	10	6	-4	0.81	1.5	0.69	0	0	0	0	0	0	0	0
7/31/2024 10:11	53601	DALM_T2	1	2	1	1.5	0.45	-1.05	-0.51	-0.6	1	1	0	900	900	0
7/31/2024 10:11	57002	WHHI_T2	1	1	0	4.7	8.4	3.7	-1.62	-1.61	1	1	0	1200	1200	0
7/31/2024 10:11	46203	DANV_T2	0	0	0	0	0	0	-1.4	-1.38	0	0	0	0	0	0
7/31/2024 10:12	63304	GREE_T1	0	0	0	0	0	0	-1.07	-1.03	0	0	0	0	0	0
7/31/2024 10:12	53501	EVIL_T2	0	1	1	0	0.3	0.3	-1	-0.94	3	3	0	2100	2100	0
7/31/2024 10:12	53502	EVIL_T2	8	5	-3	0.78	0.5	-0.28	0	0	0	0	0	0	0	0
7/31/2024 10:13	41602	CLEV_T1	0	2	2	0	0	0	0	0	1	1	0	600	600	0
7/31/2024 10:13	44801	EDAN_T2	1	2	1	0.8	0.45	-0.35	-2.54	-2.54	0	0	0	0	0	0
7/31/2024 10:14	53501	EVIL_T2	0	1	1	0	0.3	0.3	-2	-1.89	6	6	0	4200	4200	0
7/31/2024 10:14	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 10:14	52004	LING_T2	2	2	0	5.05	4.85	-0.2	0.42	0.4	0	0	0	0	0	0
7/31/2024 10:14	63304	GREE_T1	0	0	0	0	0	0	-1.07	-1.03	0	0	0	0	0	0
7/31/2024 10:14	23401	HONE_T2	0	0	0	0	0	0	-0.07	-0.03	0	0	0	0	0	0
7/31/2024 10:14	53502	EVIL_T2	8	5	-3	0.78	0.5	-0.28	0	0	0	0	0	0	0	0
7/31/2024 10:16	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 10:16	53501	EVIL_T2	1	1	0	0.3	0.2	-0.1	-2	-1.89	6	6	0	4200	4200	0
7/31/2024 10:16	53502	EVIL_T2	5	2	-3	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
7/31/2024 10:16	46506	LOHA_T1	0	0	0	0	0	0	-1.8	-1.79	2	2	0	2100	2100	0
7/31/2024 10:17	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 10:17	46506	LOHA_T1	0	0	0	0	0	0	-1.8	-1.79	2	2	0	2100	2100	0
7/31/2024 10:18	24902	WHHA_T1	8	10	2	1.44	0.9	-0.54	0.89	0.91	0	0	0	0	0	0
7/31/2024 10:18	42301	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 10:19	45702	LIND_T2	1	1	0	0.2	0.3	0.1	-1.3	-1.22	0	0	0	0	0	0
7/31/2024 10:19	55002	NEWP_T1	2	1	-1	0.85	1.6	0.75	0	0	0	0	0	0	0	0
7/31/2024 10:19	55001	NEWP_T1	0	0	0	0	0	0	-0.26	-0.19	1	1	0	600	600	0
7/31/2024 10:21	55002	NEWP_T1	2	1	-1	0.85	1.6	0.75	0	0	0	0	0	0	0	0
7/31/2024 10:21	52401	GRPA_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 10:21	56501	ROCK_T2	6	7	1	0.3	0.35	0.05	-3.93	-3.79	0	0	0	0	0	0
7/31/2024 10:21	61102	BERK_T5	0	0	0	0	0	0	0.88	0.95	1	1	0	300	300	0
7/31/2024 10:21	52403	GRPA_T2	5	9	4	0.78	1.08	0.3	-0.04	-0.05	0	0	0	0	0	0
7/31/2024 10:21	55001	NEWP_T1	0	0	0	0	0	0	-0.26	-0.19	1	1	0	600	600	0
7/31/2024 10:21	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 10:22	56501	ROCK_T2	6	7	1	0.3	0.35	0.05	-1.9	-1.87	0	0	0	0	0	0
7/31/2024 10:22	55101	WERT_T1	0	1	1	0	0.3	0.3	-1.73	-1.74	4	4	0	3300	3300	0
7/31/2024 10:23	55101	WERT_T1	0	1	1	0	0.3	0.3	-5.19	-5.23	12	12	0	9900	9900	0
7/31/2024 10:23	42802	SELI_T1	0	0	0	0	0	0	-1.29	-1.22	1	1	0	900	900	0
7/31/2024 10:24	42802	SELI_T1	0	0	0	0	0	0	-1.29	-1.22	1	1	0	900	900	0
7/31/2024 10:25	42802	SELI_T1	0	0	0	0	0	0	-1.29	-1.22	1	1	0	900	900	0
7/31/2024 10:25	55101	WERT_T1	0	1	1	0	0.3	0.3	-1.73	-1.74	4	4	0	3300	3300	0
7/31/2024 10:26	40201	BEGA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 10:27	45502	DERR_T2	40	130	90	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
7/31/2024 10:27	45501	DERR_T2	12	26	14	0.69	0.73	0.04	1.46	1.53	2	2	0	1800	1800	0
7/31/2024 10:27	42201	SHEN_T2	0	0	0	0	0	0	0.2	0.18	1	1	0	600	600	0
7/31/2024 10:28	61505	EPET_T1	0	0	0	0	0	0	0.67	0.75	0	0	0	0	0	0
7/31/2024 10:28	45502	DERR_T2	40	130	90	0.45	0.35	-0.1	0.35	0.31	1	1	0	300	300	0
7/31/2024 10:28	45501	DERR_T2	12	26	14	0.69	0.73	0.04	0	0	0	0	0	0	0	0
7/31/2024 10:29	45501	DERR_T2	12	26	14	0.69	0.73	0.04	1.46	1.53	2	2	0	1800	1800	0
7/31/2024 10:29	45502	DERR_T2	40	130	90	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
7/31/2024 10:30	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 10:30	42301	MOWR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/31/2024 10:32	64305	LINC_T1	1	2	1	1.2	0.8	-0.4	0.33	0.5	0	0	0	0	0	0
7/31/2024 10:32	43202	MVIL_T2	17	0	-17	0.17	0	-0.17	-0.79	-0.8	0	0	0	0	0	0
7/31/2024 10:33	22903	HARW_T1	1	21	20	0.1	0.25	0.15	0.78	0.76	0	0	0	0	0	0
7/31/2024 10:33	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 10:33	65001	NEFF_T2	0	0	0	0	0	0	0.05	0.28	1	1	0	1200	1200	0
7/31/2024 10:33	42301	MOWR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/31/2024 10:33	48901	FOSP_T2	0	0	0	0	0	0	-0.04	-0.05	1	1	0	600	600	0
7/31/2024 10:34	43202	MVIL_T2	17	0	-17	0.17	0	-0.17	-0.39	-0.4	0	0	0	0	0	0
7/31/2024 10:34	42903	MIDD_T2	1	5	4	0.4	0.37	-0.03	1.97	2.01	0	0	0	0	0	0
7/31/2024 10:34	40602	PIGR_T1	1	1	0	1.1	1.3	0.2	-1.07	-0.98	1	1	0	600	600	0
7/31/2024 10:34	42902	MIDD_T2	1	2	1	1.2	1.2	0	0	0	0	0	0	0	0	0
7/31/2024 10:35	42201	SHEN_T2	0	0	0	0	0	0	0.2	0.18	1	1	0	600	600	0
7/31/2024 10:36	57401	SPAN_T1	1	1	0	2.3	10	7.7	-1.05	-0.84	1	1	0	600	600	0
7/31/2024 10:37	56501	ROCK_T2	3	8	5	0.17	0.36	0.19	0	0	0	0	0	0	0	0
7/31/2024 10:37	46301	ROHR_T1	2	1	-1	0.4	0.3	-0.1	0.39	0.35	0	0	0	0	0	0
7/31/2024 10:37	46302	ROHR_T1	4	4	0	1.6	1.35	-0.25	0	0	0	0	0	0	0	0
7/31/2024 10:37	56504	ROCK_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
7/31/2024 10:38	56501	ROCK_T2	3	8	5	0.17	0.36	0.19	0	0	0	0	0	0	0	0
7/31/2024 10:38	53501	EVIL_T2	1	1	0	0.2	0.1	-0.1	-0.94	-0.95	3	4	1	2100	2700	600
7/31/2024 10:38	57401	SPAN_T1	1	1	0	2.3	10	7.7	-2.52	-2.6	3	3	0	1800	1800	0
7/31/2024 10:38	53502	EVIL_T2	1	4	3	0.5	0.5	0	0	0	0	0	0	0	0	0
7/31/2024 10:38	58001	WCAR_T1	4	3	-1	0.45	0.23	-0.22	0	0	0	0	0	0	0	0
7/31/2024 10:38	58003	WCAR_T1	1	1	0	1.1	0.8	-0.3	0.52	0.52	1	1	0	600	600	0
7/31/2024 10:38	56504	ROCK_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
7/31/2024 10:38	43106	SMIL_T2	0	0	0	0	0	0	-0.37	-0.37	2	2	0	2400	2400	0
7/31/2024 10:38	43108	SMIL_T2	2	0	-2	1.4	0	-1.4	0	0	0	0	0	0	0	0
7/31/2024 10:39	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 10:39	57401	SPAN_T1	1	1	0	2.3	10	7.7	-1.68	-1.73	2	2	0	1200	1200	0
7/31/2024 10:40	56504	ROCK_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
7/31/2024 10:40	56501	ROCK_T2	3	8	5	0.17	0.36	0.19	0	0	0	0	0	0	0	0
7/31/2024 10:42	48902	FOSP_T2	0	0	0	0	0	0	-0.01	-0.03	1	1	0	1200	1200	0
7/31/2024 10:43	47202	FAXO_T2	0	0	0	0	0	0	-1.83	-1.8	0	0	0	0	0	0
7/31/2024 10:43	47201	FAXO_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/31/2024 10:43	47203	FAXO_T2	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
7/31/2024 10:44	45802	HEGI_T2	46	52	6	0.35	0.33	-0.02	0.83	0.71	2	2	0	1200	1200	0
7/31/2024 10:45	45802	HEGI_T2	33	52	19	0.33	0.31	-0.02	0.83	0.71	2	2	0	1200	1200	0
7/31/2024 10:45	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/31/2024 10:45	58401	MORO_T1	0	0	0	0	0	0	-1.21	-0.23	1	1	0	600	600	0
7/31/2024 10:46	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/31/2024 10:46	64902	MILL_T2	0	0	0	0	0	0	-0.71	-0.71	1	1	0	900	900	0
7/31/2024 10:46	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/31/2024 10:46	58401	MORO_T1	0	0	0	0	0	0	-1.21	-0.23	1	1	0	600	600	0
7/31/2024 10:46	53502	EVIL_T2	2	4	2	0.65	0.3	-0.35	0.6	0.66	2	2	0	1200	1200	0
7/31/2024 10:47	64302	LINC_T2	3	3	0	0.37	0.35	-0.02	1.53	1.55	0	0	0	0	0	0
7/31/2024 10:47	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/31/2024 10:47	58401	MORO_T1	0	0	0	0	0	0	-1.21	-0.23	1	1	0	600	600	0
7/31/2024 10:49	16402	MOPO_T1	0	2	2	0	0.1	0.1	0.35	0.41	0	0	0	0	0	0
7/31/2024 10:49	58402	MORO_T1	0	1	1	0	0.1	0.1	-0.35	-0.24	3	3	0	2400	2400	0
7/31/2024 10:50	64902	MILL_T2	0	0	0	0	0	0	-0.71	-0.71	1	1	0	900	900	0
7/31/2024 10:50	58401	MORO_T1	0	0	0	0	0	0	-1.21	-0.23	1	1	0	600	600	0
7/31/2024 10:50	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/31/2024 10:50	16402	MOPO_T1	0	2	2	0	0.1	0.1	0.35	0.41	0	0	0	0	0	0
7/31/2024 10:51	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
7/31/2024 10:51	67605	WARW_T1	0	0	0	0	0	0	-1.79	-1.25	0	0	0	0	0	0
7/31/2024 10:51	47401	PENS_T1	5	7	2	0.64	0.63	-0.01	0.59	0.56	0	0	0	0	0	0
7/31/2024 10:52	40602	PIGR_T1	1	1	0	1.3	1.8	0.5	0	0	0	0	0	0	0	0
7/31/2024 10:52	67605	WARW_T1	0	0	0	0	0	0	-0.9	-0.63	0	0	0	0	0	0
7/31/2024 10:52	67602	WARW_T2	1	0	-1	0.1	0	-0.1	0.91	0.93	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/31/2024 10:52	40603	PIGR_T1	0	3	3	0	0	0	0.67	0.69	0	0	0	0	0	0
7/31/2024 10:53	47401	PENS_T1	5	7	2	0.64	0.63	-0.01	0.56	0.45	0	0	0	0	0	0
7/31/2024 10:53	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
7/31/2024 10:53	53903	HALI_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
7/31/2024 10:53	53902	HALI_T2	1	1	0	4.2	4.5	0.3	-0.5	-0.52	0	0	0	0	0	0
7/31/2024 10:54	52202	DEVO_T2	0	0	0	0	0	0	-0.79	-0.75	0	0	0	0	0	0
7/31/2024 10:54	67605	WARW_T1	0	0	0	0	0	0	-0.9	-0.63	0	0	0	0	0	0
7/31/2024 10:54	52204	DEVO_T2	4	6	2	0.25	0.78	0.53	0	0	0	0	0	0	0	0
7/31/2024 10:55	42802	SELI_T1	0	0	0	0	0	0	-1.13	-1.16	1	1	0	900	900	0
7/31/2024 10:55	24801	VALM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 10:55	67605	WARW_T1	0	0	0	0	0	0	-1.79	-1.25	0	0	0	0	0	0
7/31/2024 10:56	42802	SELI_T1	0	0	0	0	0	0	-2.26	-2.32	2	2	0	1800	1800	0
7/31/2024 10:56	52202	DEVO_T2	0	0	0	0	0	0	-0.79	-0.75	0	0	0	0	0	0
7/31/2024 10:56	44801	EDAN_T2	1	1	0	0.7	1.3	0.6	-1.17	-1.21	0	0	0	0	0	0
7/31/2024 10:56	52204	DEVO_T2	4	6	2	0.25	0.78	0.53	0	0	0	0	0	0	0	0
7/31/2024 10:56	44301	BEAV_T2	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
7/31/2024 10:56	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/31/2024 10:57	46206	DANV_T2	5	10	5	0.76	0.78	0.02	0.78	0.71	2	2	0	2100	2100	0
7/31/2024 10:57	42802	SELI_T1	0	0	0	0	0	0	-1.13	-1.16	1	1	0	900	900	0
7/31/2024 10:57	56501	ROCK_T2	7	5	-2	0.34	0.28	-0.06	-1.81	-1.76	0	0	0	0	0	0
7/31/2024 10:57	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 10:58	52204	DEVO_T2	4	6	2	0.25	0.78	0.53	0	0	0	0	0	0	0	0
7/31/2024 10:58	52202	DEVO_T2	0	0	0	0	0	0	-0.79	-0.75	0	0	0	0	0	0
7/31/2024 10:59	21206	ECAR_T2	2	1	-1	3.5	7	3.5	0	0	0	0	0	0	0	0
7/31/2024 10:59	52204	DEVO_T2	4	6	2	0.25	0.78	0.53	0	0	0	0	0	0	0	0
7/31/2024 10:59	41002	LAUR_T2	4	4	0	0.75	0.5	-0.25	0.29	0.32	0	0	0	0	0	0
7/31/2024 10:59	41001	LAUR_T2	1	4	3	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
7/31/2024 10:59	52202	DEVO_T2	0	0	0	0	0	0	-0.79	-0.75	0	0	0	0	0	0
7/31/2024 10:59	53601	DALM_T2	1	2	1	0.8	0.2	-0.6	-0.43	-0.49	1	1	0	900	900	0
7/31/2024 10:59	21204	ECAR_T2	1	1	0	0	0	0	-0.42	-0.36	0	0	0	0	0	0
7/31/2024 11:00	46803	HEPB_T2	0	2	2	0	0.6	0.6	0.66	0.67	0	0	0	0	0	0
7/31/2024 11:00	46801	HEPB_T2	2	7	5	1.2	0.61	-0.59	0	0	0	0	0	0	0	0
7/31/2024 11:00	52004	LING_T2	2	2	0	4.9	4.9	0	0	0	0	0	0	0	0	0
7/31/2024 11:00	52002	LING_T2	0	16	16	0	0.15	0.15	0.7	0.71	0	0	0	0	0	0
7/31/2024 11:01	60101	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/31/2024 11:01	41001	LAUR_T2	2	3	1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
7/31/2024 11:01	41002	LAUR_T2	4	4	0	0.6	0.48	-0.12	0.29	0.32	0	0	0	0	0	0
7/31/2024 11:02	63401	HONY_T1	0	0	0	0	0	0	0.58	0.63	1	1	0	600	600	0
7/31/2024 11:02	65207	PRIN_T4	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/31/2024 11:02	52404	GRPA_T2	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/31/2024 11:02	60101	COCA_T1	0	1	1	0	0.2	0.2	0.81	0.86	0	0	0	0	0	0
7/31/2024 11:02	64904	MILL_T1	0	0	0	0	0	0	0.22	0.31	0	0	0	0	0	0
7/31/2024 11:02	52403	GRPA_T2	2	5	3	1.15	0.75	-0.4	0	0	0	0	0	0	0	0
7/31/2024 11:02	52004	LING_T2	2	2	0	4.9	4.9	0	0	0	0	0	0	0	0	0
7/31/2024 11:02	52401	GRPA_T2	5	3	-2	0.42	0.1	-0.32	-0.32	-0.28	0	0	0	0	0	0
7/31/2024 11:02	52002	LING_T2	0	16	16	0	0.15	0.15	2.11	2.13	0	0	0	0	0	0
7/31/2024 11:02	52402	GRPA_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/31/2024 11:02	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/31/2024 11:02	57702	PAXT_T1	0	0	0	0	0	0	0.59	-0.34	0	0	0	0	0	0
7/31/2024 11:03	64302	LINC_T2	3	2	-1	0.63	0.4	-0.23	1.55	1.67	0	0	0	0	0	0
7/31/2024 11:04	60101	COCA_T1	0	1	1	0	0.2	0.2	0.81	0.86	0	0	0	0	0	0
7/31/2024 11:04	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 11:04	66901	SHIL_T2	0	0	0	0	0	0	-0.7	-0.74	1	1	0	1200	1200	0
7/31/2024 11:04	66902	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/31/2024 11:04	46206	DANV_T2	10	8	-2	0.88	0.77	-0.11	0.78	0.71	2	2	0	2100	2100	0
7/31/2024 11:04	52004	LING_T2	2	2	0	4.9	4.9	0	0	0	0	0	0	0	0	0
7/31/2024 11:04	52002	LING_T2	0	16	16	0	0.15	0.15	0.7	0.71	0	0	0	0	0	0
7/31/2024 11:04	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 11:05	60502	NMAN_T2	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
7/31/2024 11:05	60101	COCA_T1	0	1	1	0	0.2	0.2	0.81	0.86	0	0	0	0	0	0
7/31/2024 11:07	51305	WIND_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 11:07	51303	WIND_T1	14	14	0	0.49	0.35	-0.14	0	0	0	0	0	0	0	0
7/31/2024 11:07	51301	WIND_T1	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
7/31/2024 11:08	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 11:08	29402	BELT_T1	1	1	0	8.2	8	-0.2	0	0	0	0	0	0	0	0
7/31/2024 11:09	67801	WLAN_T1	16	18	2	0.27	0.43	0.16	0.55	0.67	0	0	0	0	0	0
7/31/2024 11:09	67804	WLAN_T1	0	10	10	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 11:09	67805	WLAN_T1	0	0	0	0	0	0	-0.23	-0.17	0	0	0	0	0	0
7/31/2024 11:10	61102	BERK_T5	0	0	0	0	0	0	0.19	0.23	2	2	0	1200	1200	0
7/31/2024 11:11	53601	DALM_T2	2	2	0	0.25	0.9	0.65	-0.49	-0.49	1	1	0	900	900	0
7/31/2024 11:11	61102	BERK_T5	0	0	0	0	0	0	0.19	0.23	2	2	0	1200	1200	0
7/31/2024 11:12	61102	BERK_T5	0	0	0	0	0	0	0.19	0.23	2	2	0	1200	1200	0
7/31/2024 11:12	56501	ROCK_T2	5	2	-3	0.28	0.1	-0.18	-1.76	-1.77	0	0	0	0	0	0
7/31/2024 11:12	67605	WARW_T1	0	1	1	0	1	1	-0.63	-0.58	0	0	0	0	0	0
7/31/2024 11:12	53502	EVIL_T2	4	4	0	0.4	0.38	-0.02	0.58	0.63	2	2	0	1200	1200	0
7/31/2024 11:12	63303	GREE_T1	0	0	0	0	0	0	0.1	0.08	2	2	0	1800	1800	0
7/31/2024 11:12	67603	WARW_T1	0	0	0	0	0	0	0.34	0.39	0	0	0	0	0	0
7/31/2024 11:12	53501	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 11:17	56504	ROCK_T2	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
7/31/2024 11:17	56501	ROCK_T2	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
7/31/2024 11:17	64904	MILL_T1	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
7/31/2024 11:18	46506	LOHA_T1	0	0	0	0	0	0	-1.72	-1.69	2	2	0	2100	2100	0
7/31/2024 11:18	46501	LOHA_T1	1	3	2	0.1	0.55	0.45	0	0	0	0	0	0	0	0
7/31/2024 11:19	46501	LOHA_T1	1	3	2	0.1	0.55	0.45	0.59	0.57	1	1	0	1200	1200	0
7/31/2024 11:19	42901	MIDD_T2	0	4	4	0	0.5	0.5	0	0	0	0	0	0	0	0
7/31/2024 11:19	42902	MIDD_T2	2	2	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
7/31/2024 11:19	47403	PENS_T1	1	1	0	1.5	2.2	0.7	0	0	0	0	0	0	0	0
7/31/2024 11:19	47401	PENS_T1	7	8	1	0.51	0.82	0.31	0.45	0.53	0	0	0	0	0	0
7/31/2024 11:19	42903	MIDD_T2	15	31	16	0.7	0.63	-0.07	2.29	2.27	0	0	0	0	0	0
7/31/2024 11:19	25503	MADI_T1	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
7/31/2024 11:19	25502	MADI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/31/2024 11:20	64802	MONE_T2	2	5	3	0.2	0.64	0.44	0.74	0.63	0	0	0	0	0	0
7/31/2024 11:20	65901	SAKR_T2	1	1	0	7	7.1	0.1	-0.54	-0.48	2	2	0	1500	1500	0
7/31/2024 11:21	15702	TANN_T2	0	0	0	0	0	0	0.01	0.05	0	0	0	0	0	0
7/31/2024 11:21	47401	PENS_T1	7	8	1	0.51	0.82	0.31	0.45	0.53	0	0	0	0	0	0
7/31/2024 11:21	47403	PENS_T1	1	1	0	1.5	2.2	0.7	0	0	0	0	0	0	0	0
7/31/2024 11:21	15703	TANN_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
7/31/2024 11:22	15702	TANN_T2	0	0	0	0	0	0	0.01	0.05	0	0	0	0	0	0
7/31/2024 11:22	15703	TANN_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
7/31/2024 11:23	20403	ASHF_T2	0	5	5	0	0	0	1.91	1.84	0	0	0	0	0	0
7/31/2024 11:23	61102	BERK_T5	0	0	0	0	0	0	0.68	0.8	6	6	0	3600	3600	0
7/31/2024 11:23	42802	SELI_T1	0	0	0	0	0	0	-2.28	-2.34	2	2	0	1800	1800	0
7/31/2024 11:23	20401	ASHF_T2	4	7	3	0.95	1.84	0.89	0	0	0	0	0	0	0	0
7/31/2024 11:23	20402	ASHF_T2	6	10	4	0.73	1.96	1.23	0	0	0	0	0	0	0	0
7/31/2024 11:24	15702	TANN_T2	0	0	0	0	0	0	0.01	0.05	0	0	0	0	0	0
7/31/2024 11:24	15703	TANN_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
7/31/2024 11:24	22805	HAUT_T2	0	0	0	0	0	0	-1.15	-1.13	1	1	0	1200	1200	0
7/31/2024 11:24	42802	SELI_T1	0	0	0	0	0	0	-3.42	-3.51	3	3	0	2700	2700	0
7/31/2024 11:25	45501	DERR_T2	24	49	25	0.73	0.77	0.04	3.04	2.82	4	4	0	3600	3600	0
7/31/2024 11:25	42802	SELI_T1	0	0	0	0	0	0	-1.14	-1.17	1	1	0	900	900	0
7/31/2024 11:25	45502	DERR_T2	174	187	13	0.58	0.57	-0.01	0	0	0	0	0	0	0	0
7/31/2024 11:26	67801	WLAN_T1	18	18	0	0.44	0.15	-0.29	0.67	-0.6	0	0	0	0	0	0
7/31/2024 11:26	43108	SMIL_T2	0	0	0	0	0	0	-0.85	-0.78	1	1	0	1200	1200	0
7/31/2024 11:26	45501	DERR_T2	24	49	25	0.73	0.77	0.04	1.52	1.41	2	2	0	1800	1800	0
7/31/2024 11:26	45502	DERR_T2	174	187	13	0.58	0.57	-0.01	0	0	0	0	0	0	0	0
7/31/2024 11:26	67804	WLAN_T1	0	10	10	0	0.36	0.36	0	0	0	0	0	0	0	0
7/31/2024 11:27	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 11:27	61102	BERK_T5	0	0	0	0	0	0	0.45	0.53	4	4	0	2400	2400	0
7/31/2024 11:27	21206	ECAR_T2	1	1	0	7	7.2	0.2	0.87	0.8	0	0	0	0	0	0
7/31/2024 11:28	56802	BENV_T2	0	0	0	0	0	0	-0.8	-0.74	0	0	0	0	0	0
7/31/2024 11:28	61301	EARL_T1	0	0	0	0	0	0	-0.87	-0.76	2	2	0	1800	1800	0
7/31/2024 11:31	52002	LING_T2	16	9	-7	0.21	0	-0.21	1.52	1.54	0	0	0	0	0	0
7/31/2024 11:31	52004	LING_T2	2	3	1	4.4	3.37	-1.03	0	0	0	0	0	0	0	0
7/31/2024 11:33	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/31/2024 11:33	64204	KINZ_T1	1	1	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
7/31/2024 11:33	52004	LING_T2	2	3	1	4.4	3.37	-1.03	0.18	0.27	0	0	0	0	0	0
7/31/2024 11:33	64203	KINZ_T1	2	2	0	1.6	1.55	-0.05	0.74	0.83	3	3	0	2100	2100	0
7/31/2024 11:33	64201	KINZ_T1	3	2	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
7/31/2024 11:33	52002	LING_T2	16	9	-7	0.21	0	-0.21	0	0	0	0	0	0	0	0
7/31/2024 11:34	57404	SPAN_T2	0	0	0	0	0	0	-0.43	-0.37	1	1	0	1200	1200	0
7/31/2024 11:35	57403	SPAN_T1	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
7/31/2024 11:35	64902	MILL_T2	0	0	0	0	0	0	-0.56	-0.56	1	1	0	900	900	0
7/31/2024 11:35	57401	SPAN_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
7/31/2024 11:36	47401	PENS_T1	6	6	0	0.8	0.82	0.02	0.53	0.31	0	0	0	0	0	0
7/31/2024 11:36	45402	WBLO_T2	0	1	1	0	0.6	0.6	-0.98	-0.98	1	1	0	900	900	0
7/31/2024 11:36	47403	PENS_T1	1	1	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0
7/31/2024 11:36	57401	SPAN_T1	0	1	1	0	0.4	0.4	-0.82	-0.7	1	1	0	600	600	0
7/31/2024 11:37	57401	SPAN_T1	0	1	1	0	0.4	0.4	-0.7	-0.66	1	1	0	600	600	0
7/31/2024 11:38	20401	ASHF_T2	5	7	2	1.84	1.84	0	0	0	0	0	0	0	0	0
7/31/2024 11:38	20402	ASHF_T2	7	12	5	1.96	2.01	0.05	0	0	0	0	0	0	0	0
7/31/2024 11:38	20403	ASHF_T2	4	1	-3	0.23	0	-0.23	0.92	0.72	0	0	0	0	0	0
7/31/2024 11:39	57401	SPAN_T1	0	1	1	0	0.4	0.4	-0.7	-0.66	1	1	0	600	600	0
7/31/2024 11:39	56504	ROCK_T2	0	0	0	0	0	0	0.48	0.53	0	0	0	0	0	0
7/31/2024 11:39	56501	ROCK_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
7/31/2024 11:40	67602	WARW_T2	0	2	2	0	0.35	0.35	2.28	2.37	4	4	0	3000	3000	0
7/31/2024 11:41	67602	WARW_T2	0	2	2	0	0.35	0.35	1.14	1.19	2	2	0	1500	1500	0
7/31/2024 11:42	67602	WARW_T2	0	2	2	0	0.35	0.35	2.28	2.37	4	4	0	3000	3000	0
7/31/2024 11:44	64201	KINZ_T1	3	2	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
7/31/2024 11:44	67602	WARW_T2	0	2	2	0	0.35	0.35	1.14	1.19	2	2	0	1500	1500	0
7/31/2024 11:44	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/31/2024 11:44	64204	KINZ_T1	1	1	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
7/31/2024 11:44	64203	KINZ_T1	2	2	0	1.6	1.55	-0.05	0.83	0.68	3	3	0	2100	2100	0
7/31/2024 11:45	60904	DONG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 11:45	60902	DONG_T2	0	0	0	0	0	0	1.37	1.34	0	0	0	0	0	0
7/31/2024 11:45	60901	DONG_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/31/2024 11:46	64203	KINZ_T1	2	2	0	1.55	1.5	-0.05	0	0	0	0	0	0	0	0
7/31/2024 11:46	64201	KINZ_T1	2	0	-2	0.4	0	-0.4	-0.83	-0.95	5	5	0	3300	3300	0
7/31/2024 11:46	64204	KINZ_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
7/31/2024 11:47	46102	MACI_T1	0	0	0	0	0	0	0.96	0.97	0	0	0	0	0	0
7/31/2024 11:47	52403	GRPA_T2	4	17	13	0.78	0.64	-0.14	-0.18	-0.18	0	0	0	0	0	0
7/31/2024 11:47	52404	GRPA_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 11:47	52002	LING_T2	9	0	-9	0.2	0	-0.2	0.77	-0.06	0	1	1	0	900	900
7/31/2024 11:47	52402	GRPA_T2	3	3	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/31/2024 11:47	52004	LING_T2	2	3	1	4.35	3.37	-0.98	0	0	0	0	0	0	0	0
7/31/2024 11:47	52401	GRPA_T2	3	12	9	0.27	0.6	0.33	0	0	0	0	0	0	0	0
7/31/2024 11:48	64101	REFR_T1	10	10	0	1.2	0.78	-0.42	0.47	0.47	0	0	0	0	0	0
7/31/2024 11:49	52004	LING_T2	2	3	1	4.35	3.37	-0.98	0	0	0	0	0	0	0	0
7/31/2024 11:49	64101	REFR_T1	10	10	0	1.2	0.78	-0.42	1.41	1.41	0	0	0	0	0	0
7/31/2024 11:49	64305	LINC_T1	0	2	2	0	0.3	0.3	0.65	0.73	0	0	0	0	0	0
7/31/2024 11:49	52002	LING_T2	9	0	-9	0.2	0	-0.2	0.77	-0.06	0	1	1	0	900	900
7/31/2024 11:50	64101	REFR_T1	10	10	0	1.2	0.78	-0.42	0.94	0.94	0	0	0	0	0	0
7/31/2024 11:51	64101	REFR_T1	10	10	0	1.2	0.78	-0.42	0.94	-0.18	0	0	0	0	0	0
7/31/2024 11:52	64101	REFR_T1	10	10	0	1.2	0.78	-0.42	0.47	-0.09	0	0	0	0	0	0
7/31/2024 11:53	64101	REFR_T1	10	10	0	1.2	0.78	-0.42	0.47	-0.09	0	0	0	0	0	0
7/31/2024 11:54	40602	PIGR_T1	1	4	3	2	2.2	0.2	-0.88	-0.88	1	1	0	600	600	0
7/31/2024 11:54	40603	PIGR_T1	13	42	29	0.45	0.46	0.01	0	0	0	0	0	0	0	0
7/31/2024 11:56	56504	ROCK_T2	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
7/31/2024 11:56	42701	AUGU_T1	1	0	-1	0.3	0	-0.3	0	0	2	2	0	1800	1800	0
7/31/2024 11:56	56501	ROCK_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
7/31/2024 11:57	42701	AUGU_T1	1	0	-1	0.3	0	-0.3	0	0	2	2	0	1800	1800	0
7/31/2024 11:57	56501	ROCK_T2	2	1	-1	0.25	0.1	-0.15	-1.69	-1.69	0	0	0	0	0	0
7/31/2024 11:59	20601	GRWO_T2	343	339	-4	0.85	0.87	0.02	2.64	2.63	0	0	0	0	0	0
7/31/2024 11:59	51603	DUKE_T1	0	0	0	0	0	0	0.9	0.86	0	0	0	0	0	0
7/31/2024 11:59	62102	ELAN_T1	0	0	0	0	0	0	0.23	-0.61	0	0	0	0	0	0
7/31/2024 11:59	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 11:59	62101	ELAN_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/31/2024 12:00	53802	MBRG_T2	0	0	0	0	0	0	0.39	0.21	0	0	0	0	0	0
7/31/2024 12:02	57303	MOAL_T2	1	1	0	8.3	7.9	-0.4	0	0	0	0	0	0	0	0
7/31/2024 12:02	57304	MOAL_T2	1	1	0	1	0.2	-0.8	-0.12	-0.09	0	0	0	0	0	0
7/31/2024 12:03	42903	MIDD_T2	19	4	-15	0.83	0.25	-0.58	0	0	0	0	0	0	0	0
7/31/2024 12:03	42902	MIDD_T2	4	1	-3	1.18	1.1	-0.08	-0.23	-0.03	2	1	-1	900	600	-300
7/31/2024 12:03	42901	MIDD_T2	3	0	-3	0.83	0	-0.83	0	0	0	0	0	0	0	0
7/31/2024 12:03	55001	NEWP_T1	0	0	0	0	0	0	-0.17	-0.2	1	1	0	600	600	0
7/31/2024 12:03	55002	NEWP_T1	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
7/31/2024 12:04	55001	NEWP_T1	0	0	0	0	0	0	-0.17	-0.2	1	1	0	600	600	0
7/31/2024 12:04	55002	NEWP_T1	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
7/31/2024 12:05	57401	SPAN_T1	2	7	5	2.8	2.05	-0.75	-0.66	-0.66	1	1	0	600	600	0
7/31/2024 12:05	53502	EVIL_T2	5	1	-4	0.6	0.2	-0.4	0.6	0.34	2	2	0	1200	1200	0
7/31/2024 12:05	53501	EVIL_T2	1	4	3	0.1	1.25	1.15	0	0	0	0	0	0	0	0
7/31/2024 12:05	64101	REFR_T1	10	10	0	0.79	0.63	-0.16	0.94	-0.18	0	0	0	0	0	0
7/31/2024 12:06	57401	SPAN_T1	2	7	5	2.8	2.05	-0.75	-1.32	-1.31	2	2	0	1200	1200	0
7/31/2024 12:07	57401	SPAN_T1	2	7	5	2.8	2.05	-0.75	-1.31	-1.12	2	2	0	1200	1200	0
7/31/2024 12:07	64101	REFR_T1	10	10	0	0.79	0.63	-0.16	-0.09	-0.08	0	0	0	0	0	0
7/31/2024 12:08	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 12:08	41902	REED_T1	12	16	4	0.31	0.25	-0.06	0.66	0.68	1	1	0	900	900	0
7/31/2024 12:08	29402	BELT_T1	1	1	0	7.7	8.3	0.6	0	0	0	0	0	0	0	0
7/31/2024 12:08	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/31/2024 12:10	47401	PENS_T1	4	7	3	1	0.73	-0.27	0.38	0.41	0	0	0	0	0	0
7/31/2024 12:11	67804	WLAN_T1	10	10	0	0.45	0.22	-0.23	0	0	0	0	0	0	0	0
7/31/2024 12:11	24902	WHHA_T1	32	2	-30	0.61	0.1	-0.51	0.37	0.38	0	0	0	0	0	0
7/31/2024 12:11	67803	WLAN_T1	0	0	0	0	0	0	-0.91	-0.87	0	0	0	0	0	0
7/31/2024 12:11	67801	WLAN_T1	18	27	9	0.17	0.43	0.26	0	0	0	0	0	0	0	0
7/31/2024 12:12	29402	BELT_T1	1	1	0	7.7	8.3	0.6	0	0	0	0	0	0	0	0
7/31/2024 12:12	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/31/2024 12:13	61303	EARL_T1	1	2	1	0.3	0.1	-0.2	1.33	1.22	0	0	0	0	0	0
7/31/2024 12:13	61304	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 12:13	61701	ELIZ_T1	2	2	0	1.45	2.4	0.95	0	0	0	0	0	0	0	0
7/31/2024 12:13	61703	ELIZ_T1	0	0	0	0	0	0	-3.93	-3.89	4	4	0	4200	4200	0
7/31/2024 12:13	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 12:13	21206	ECAR_T2	1	1	0	7.1	7.4	0.3	0.78	0.76	0	0	0	0	0	0
7/31/2024 12:13	43103	SMIL_T2	0	0	0	0	0	0	-0.24	-0.17	0	0	0	0	0	0
7/31/2024 12:14	61701	ELIZ_T1	2	2	0	1.45	2.4	0.95	0	0	0	0	0	0	0	0
7/31/2024 12:14	43103	SMIL_T2	0	0	0	0	0	0	-0.47	-0.35	0	0	0	0	0	0
7/31/2024 12:14	61703	ELIZ_T1	0	0	0	0	0	0	-1.97	-1.95	2	2	0	2100	2100	0
7/31/2024 12:15	61703	ELIZ_T1	0	0	0	0	0	0	-1.97	-1.95	2	2	0	2100	2100	0
7/31/2024 12:15	61701	ELIZ_T1	1	1	0	2.4	2.2	-0.2	0	0	0	0	0	0	0	0
7/31/2024 12:17	41202	KENM_T2	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
7/31/2024 12:18	45702	LIND_T2	1	1	0	0.8	0.2	-0.6	-1.25	-1.23	0	0	0	0	0	0
7/31/2024 12:19	55002	NEWP_T1	1	1	0	1.5	1.9	0.4	0	0	0	0	0	0	0	0
7/31/2024 12:19	23001	SAJO_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
7/31/2024 12:19	40101	HUNT_T2	27	53	26	0.56	0.53	-0.03	0	0	0	0	0	0	0	0
7/31/2024 12:19	55001	NEWP_T1	0	4	4	0	0	0	-0.2	-0.15	1	1	0	600	600	0
7/31/2024 12:20	64101	REFR_T1	10	10	0	0.85	0.63	-0.22	-0.09	-0.08	0	0	0	0	0	0
7/31/2024 12:23	55101	WERT_T1	17	22	5	0.46	0.5	0.04	-1.57	-1.5	4	4	0	3300	3300	0
7/31/2024 12:23	54201	PENN_T1	1	3	2	0.1	1.07	0.97	-1.43	-1.45	0	0	0	0	0	0
7/31/2024 12:23	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 12:23	52501	PROG_T1	0	2	2	0	0.35	0.35	-0.39	-0.34	1	1	0	300	300	0
7/31/2024 12:23	54203	PENN_T1	0	5	5	0	0.32	0.32	0	0	0	0	0	0	0	0
7/31/2024 12:26	56501	ROCK_T2	0	3	3	0	0.25	0.25	0	0	0	0	0	0	0	0
7/31/2024 12:26	56504	ROCK_T2	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
7/31/2024 12:27	46004	BERW_T2	0	0	0	0	0	0	1.02	1.02	0	0	0	0	0	0
7/31/2024 12:28	51603	DUKE_T1	0	0	0	0	0	0	0.9	0.15	0	0	0	0	0	0
7/31/2024 12:28	67602	WARW_T2	2	5	3	0.55	0.43	-0.12	1.06	1.12	2	2	0	1500	1500	0
7/31/2024 12:29	63803	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 12:29	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 12:29	63804	HEMP_T1	1	3	2	8.6	4.2	-4.4	0.28	0.28	0	0	0	0	0	0
7/31/2024 12:29	20601	GRWO_T2	300	383	83	0.83	0.82	-0.01	1.34	1.33	0	0	0	0	0	0
7/31/2024 12:29	46602	LACR_T1	0	1	1	0	0.5	0.5	-0.33	-0.4	0	0	0	0	0	0
7/31/2024 12:30	46803	HEPB_T2	4	0	-4	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/31/2024 12:30	46801	HEPB_T2	3	2	-1	0.93	1.2	0.27	0.33	0.35	0	0	0	0	0	0
7/31/2024 12:31	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 12:31	64201	KINZ_T1	0	14	14	0	0.77	0.77	-0.96	-0.85	5	5	0	3300	3300	0
7/31/2024 12:31	64203	KINZ_T1	2	8	6	1.65	1.03	-0.62	0	0	0	0	0	0	0	0
7/31/2024 12:31	64204	KINZ_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/31/2024 12:32	64201	KINZ_T1	0	14	14	0	0.77	0.77	-0.96	-0.85	5	5	0	3300	3300	0
7/31/2024 12:32	64204	KINZ_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/31/2024 12:32	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 12:32	64203	KINZ_T1	2	8	6	1.65	1.03	-0.62	0	0	0	0	0	0	0	0
7/31/2024 12:35	64203	KINZ_T1	2	8	6	1.65	1.03	-0.62	0	0	0	0	0	0	0	0
7/31/2024 12:35	64201	KINZ_T1	0	14	14	0	0.77	0.77	-1.92	-1.69	10	10	0	6600	6600	0
7/31/2024 12:35	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 12:35	64204	KINZ_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
7/31/2024 12:36	50502	MECH_T1	2	1	-1	0.55	0.5	-0.05	0.15	0.16	2	2	0	2100	2100	0
7/31/2024 12:37	65804	RTWN_T1	0	0	0	0	0	0	1.25	1.31	1	1	0	600	600	0
7/31/2024 12:37	47403	PENS_T1	0	2	2	0	1.15	1.15	0	0	0	0	0	0	0	0
7/31/2024 12:37	45402	WBLO_T2	1	1	0	1.3	0.8	-0.5	-0.92	-0.86	1	1	0	900	900	0
7/31/2024 12:37	47401	PENS_T1	4	5	1	0.93	1.18	0.25	0.67	0.82	0	0	0	0	0	0
7/31/2024 12:39	42701	AUGU_T1	1	4	3	0.2	0	-0.2	0	0	2	2	0	1800	1800	0
7/31/2024 12:40	45502	DERR_T2	164	198	34	0.63	0.85	0.22	0	0	0	0	0	0	0	0
7/31/2024 12:40	45501	DERR_T2	50	94	44	0.62	0.55	-0.07	1.52	1.48	2	2	0	1800	1800	0
7/31/2024 12:41	46203	DANV_T2	0	0	0	0	0	0	-1.32	-1.26	0	0	0	0	0	0
7/31/2024 12:41	46204	DANV_T2	2	2	0	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/31/2024 12:41	60201	ATGL_T2	0	0	0	0	0	0	2.65	1.63	2	4	2	600	1800	1200
7/31/2024 12:41	46206	DANV_T2	9	21	12	0.57	0.36	-0.21	0	0	0	0	0	0	0	0
7/31/2024 12:41	41602	CLEV_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
7/31/2024 12:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/31/2024 12:42	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 12:42	49803	UNIV_T1	1	1	0	6.3	6.4	0.1	-1.54	-1.59	0	0	0	0	0	0
7/31/2024 12:42	43103	SMIL_T2	0	0	0	0	0	0	-1.43	-1.45	0	0	0	0	0	0
7/31/2024 12:43	24102	EHAZ_T1	2	3	1	0.85	2.5	1.65	0	0	0	0	0	0	0	0
7/31/2024 12:43	24101	EHAZ_T1	22	22	0	2.01	1.11	-0.9	0	0	0	0	0	0	0	0
7/31/2024 12:43	24104	EHAZ_T1	0	0	0	0	0	0	-1.47	-1.48	1	1	0	1200	1200	0
7/31/2024 12:43	24105	EHAZ_T1	4	4	0	6.43	6.75	0.32	0	0	0	0	0	0	0	0
7/31/2024 12:43	43103	SMIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 12:44	42301	MOWR_T2	10	17	7	0.28	0.48	0.2	0	0	0	0	0	0	0	0
7/31/2024 12:44	42302	MOWR_T2	11	25	14	0.35	0.35	0	0	0	0	0	0	0	0	0
7/31/2024 12:45	53601	DALM_T2	2	5	3	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/31/2024 12:45	40101	HUNT_T2	52	70	18	0.47	0.56	0.09	-0.38	-0.43	0	0	0	0	0	0
7/31/2024 12:45	53602	DALM_T2	0	0	0	0	0	0	-0.42	-0.42	1	1	0	600	600	0
7/31/2024 12:45	64701	LITI_T1	1	1	0	0.1	0	-0.1	0.3	0.33	1	1	0	900	900	0
7/31/2024 12:46	45802	HEGI_T2	94	62	-32	0.66	0.79	0.13	0.63	0.63	2	2	0	1200	1200	0
7/31/2024 12:46	64204	KINZ_T1	1	2	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
7/31/2024 12:46	64201	KINZ_T1	3	38	35	0.77	0.39	-0.38	-1.69	-0.88	10	10	0	6600	6600	0
7/31/2024 12:46	64203	KINZ_T1	7	10	3	0.94	1.87	0.93	0	0	0	0	0	0	0	0
7/31/2024 12:46	64202	KINZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 12:47	46204	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 12:47	46206	DANV_T2	15	28	13	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
7/31/2024 12:47	46203	DANV_T2	0	0	0	0	0	0	-1.32	-1.26	0	0	0	0	0	0
7/31/2024 12:47	64202	KINZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 12:47	64203	KINZ_T1	7	10	3	0.94	1.87	0.93	0.52	0.59	3	3	0	2100	2100	0
7/31/2024 12:47	64201	KINZ_T1	3	38	35	0.77	0.39	-0.38	-0.85	-0.44	5	5	0	3300	3300	0
7/31/2024 12:47	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 12:47	64204	KINZ_T1	1	2	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
7/31/2024 12:49	54701	NEBL_T1	49	3	-46	0.35	0	-0.35	0	0	1	1	0	600	600	0
7/31/2024 12:49	41002	LAUR_T2	3	3	0	1.13	0.87	-0.26	0.32	0.35	0	0	0	0	0	0
7/31/2024 12:49	41001	LAUR_T2	3	7	4	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
7/31/2024 12:50	43103	SMIL_T2	0	0	0	0	0	0	-1.43	-1.45	0	0	0	0	0	0
7/31/2024 12:50	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/31/2024 12:50	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 12:51	64101	REFR_T1	10	11	1	0.94	0.77	-0.17	-0.03	-0.04	0	0	0	0	0	0
7/31/2024 12:51	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/31/2024 12:51	58201	NEWV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/31/2024 12:51	58202	NEWV_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
7/31/2024 12:56	44801	EDAN_T2	1	3	2	1.6	1.05	-0.55	-2.34	-2.24	0	0	0	0	0	0
7/31/2024 12:59	53501	EVIL_T2	2	5	3	0.85	0.5	-0.35	-1.14	-1.01	5	5	0	2900	2900	0
7/31/2024 12:59	53502	EVIL_T2	5	6	1	0.26	0.53	0.27	0	0	0	0	0	0	0	0
7/31/2024 13:01	43101	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/31/2024 13:01	20603	GRWO_T2	0	0	0	0	0	0	-0.29	-0.3	1	1	0	900	900	0
7/31/2024 13:01	13503	MCMI_T2	1	1	0	0.3	0.3	0	-0.7	-0.67	0	0	0	0	0	0
7/31/2024 13:01	20601	GRWO_T2	16	18	2	0.52	0.44	-0.08	0	0	0	0	0	0	0	0
7/31/2024 13:01	43108	SMIL_T2	0	0	0	0	0	0	-0.72	-0.73	1	1	0	1200	1200	0
7/31/2024 13:02	13503	MCMI_T2	1	1	0	0.3	0.3	0	-0.7	-0.67	0	0	0	0	0	0
7/31/2024 13:02	53501	EVIL_T2	1	5	4	0.5	0.4	-0.1	-1.14	-1.01	5	5	0	2900	2900	0
7/31/2024 13:02	53502	EVIL_T2	4	6	2	0.65	0.68	0.03	0	0	0	0	0	0	0	0
7/31/2024 13:04	57702	PAXT_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
7/31/2024 13:04	42903	MIDD_T2	25	65	40	0.6	0.57	-0.03	2.36	2.21	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/31/2024 13:04	42901	MIDD_T2	5	5	0	0.64	0.7	0.06	0	0	0	0	0	0	0	0
7/31/2024 13:04	42902	MIDD_T2	2	4	2	1.3	1.5	0.2	0	0	0	0	0	0	0	0
7/31/2024 13:06	27605	PIRI_T2	20	58	38	0.41	0.49	0.08	0.64	0.66	1	1	0	900	900	0
7/31/2024 13:06	27603	PIRI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 13:07	55001	NEWP_T1	0	10	10	0	0	0	-0.12	-0.11	1	1	0	600	600	0
7/31/2024 13:07	55002	NEWP_T1	1	1	0	0.3	1.5	1.2	0	0	0	0	0	0	0	0
7/31/2024 13:07	40201	BEGA_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
7/31/2024 13:07	51201	MTON_T1	0	1	1	0	8.2	8.2	0.97	0.93	0	0	0	0	0	0
7/31/2024 13:07	44801	EDAN_T2	2	4	2	1.05	0.75	-0.3	-1.12	-1.08	0	0	0	0	0	0
7/31/2024 13:09	65901	SAKR_T2	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
7/31/2024 13:09	65902	SAKR_T2	1	1	0	0.5	0.6	0.1	-0.55	-0.75	2	2	0	1200	1200	0
7/31/2024 13:10	42801	SELI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/31/2024 13:10	42802	SELI_T1	0	0	0	0	0	0	-1.07	-1.03	1	1	0	900	900	0
7/31/2024 13:11	40201	BEGA_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
7/31/2024 13:12	28102	TWLA_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
7/31/2024 13:14	61501	EPET_T2	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
7/31/2024 13:14	61506	EPET_T2	0	0	0	0	0	0	-0.89	-0.75	2	2	0	1800	1800	0
7/31/2024 13:15	57401	SPAN_T1	10	3	-7	0.55	1.5	0.95	-0.48	-0.49	1	1	0	600	600	0
7/31/2024 13:16	64203	KINZ_T1	9	7	-2	1.57	1	-0.57	0	0	0	0	0	0	0	0
7/31/2024 13:16	64202	KINZ_T1	2	2	0	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
7/31/2024 13:16	64204	KINZ_T1	2	1	-1	0.55	0	-0.55	0	0	0	0	0	0	0	0
7/31/2024 13:16	64201	KINZ_T1	38	32	-6	0.43	0.51	0.08	-0.46	-0.42	5	5	0	3300	3300	0
7/31/2024 13:17	53803	MBRG_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
7/31/2024 13:18	52402	GRPA_T2	3	8	5	0.37	0.8	0.43	-0.35	-0.31	0	0	0	0	0	0
7/31/2024 13:18	52403	GRPA_T2	9	16	7	0.6	0.63	0.03	0	0	0	0	0	0	0	0
7/31/2024 13:18	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 13:20	57603	RUTH_T2	2	3	1	4.15	4.95	0.8	0	0	0	0	0	0	0	0
7/31/2024 13:20	57601	RUTH_T2	0	0	0	0	0	0	-1.44	-1.35	1	1	0	900	900	0
7/31/2024 13:20	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 13:22	44202	POIN_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/31/2024 13:22	44203	POIN_T2	4	8	4	0.38	0.94	0.56	-0.15	-0.32	3	3	0	3300	3300	0
7/31/2024 13:22	48302	ORWI_T2	0	1	1	0	0.4	0.4	-0.08	-0.07	0	0	0	0	0	0
7/31/2024 13:23	64101	REFR_T1	10	14	4	1.07	0.76	-0.31	0.06	0.08	0	0	0	0	0	0
7/31/2024 13:23	50701	SMEC_T1	2	1	-1	0.2	0.1	-0.1	-1.43	-1.37	2	2	0	2100	2100	0
7/31/2024 13:23	42701	AUGU_T1	2	10	8	0.4	0.45	0.05	0	0	2	2	0	1800	1800	0
7/31/2024 13:23	13503	MCMI_T2	1	7	6	0.2	0.21	0.01	-0.68	-0.67	0	0	0	0	0	0
7/31/2024 13:23	57603	RUTH_T2	2	3	1	4.15	4.95	0.8	0	0	0	0	0	0	0	0
7/31/2024 13:23	57601	RUTH_T2	0	0	0	0	0	0	-1.35	-1.26	1	1	0	900	900	0
7/31/2024 13:25	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/31/2024 13:25	29402	BELT_T1	1	1	0	7.7	7.5	-0.2	0	0	0	0	0	0	0	0
7/31/2024 13:25	45501	DERR_T2	74	88	14	0.59	0.59	0	1.57	1.71	2	2	0	1800	1800	0
7/31/2024 13:25	45502	DERR_T2	185	201	16	0.98	0.75	-0.23	0	0	0	0	0	0	0	0
7/31/2024 13:26	40201	BEGA_T2	2	5	3	0.25	0.55	0.3	0	0	0	0	0	0	0	0
7/31/2024 13:27	45502	DERR_T2	185	201	16	0.98	0.75	-0.23	0	0	0	0	0	0	0	0
7/31/2024 13:27	45501	DERR_T2	74	88	14	0.59	0.59	0	3.15	3.41	4	4	0	3600	3600	0
7/31/2024 13:28	45501	DERR_T2	74	88	14	0.59	0.59	0	3.15	3.41	4	4	0	3600	3600	0
7/31/2024 13:28	45502	DERR_T2	185	201	16	0.98	0.75	-0.23	0	0	0	0	0	0	0	0
7/31/2024 13:31	57404	SPAN_T2	0	0	0	0	0	0	-1.37	-1.5	1	1	0	1200	1200	0
7/31/2024 13:31	63501	HEID_TBK1-2	0	0	0	0	0	0	0.45	0.55	1	1	0	900	900	0
7/31/2024 13:32	53802	MBRG_T2	0	0	0	0	0	0	0.41	0.54	0	0	0	0	0	0
7/31/2024 13:33	57303	MOAL_T2	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
7/31/2024 13:33	57304	MOAL_T2	2	5	3	0.35	0.33	-0.02	0.07	0.06	0	0	0	0	0	0
7/31/2024 13:33	58402	MORO_T1	0	0	0	0	0	0	0	0.05	3	3	0	2400	2400	0
7/31/2024 13:33	48902	FOSP_T2	0	0	0	0	0	0	-0.06	-0.02	1	1	0	1200	1200	0
7/31/2024 13:34	27603	PIRI_T2	1	0	-1	0.1	0	-0.1	-0.33	-0.63	2	2	0	1800	1800	0
7/31/2024 13:34	27605	PIRI_T2	56	57	1	0.51	0.5	-0.01	0	0	0	0	0	0	0	0
7/31/2024 13:35	48902	FOSP_T2	0	0	0	0	0	0	-0.06	-0.02	1	1	0	1200	1200	0
7/31/2024 13:36	46302	ROHR_T1	4	4	0	1.25	0.88	-0.37	0.39	0.4	0	0	0	0	0	0
7/31/2024 13:36	51702	OBER_T1	2	2	0	1.8	1.75	-0.05	-0.16	-0.17	1	1	0	600	600	0
7/31/2024 13:36	46301	ROHR_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
7/31/2024 13:37	67702	WERN_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
7/31/2024 13:38	64101	REFR_T1	14	12	-2	0.68	0.96	0.28	0.08	0.12	0	0	0	0	0	0
7/31/2024 13:42	42701	AUGU_T1	4	13	9	0.5	0.38	-0.12	0	0	2	2	0	1800	1800	0
7/31/2024 13:42	61302	EARL_T1	0	0	0	0	0	0	1.23	1.21	3	3	0	2700	2700	0
7/31/2024 13:42	45501	DERR_T2	87	81	-6	0.6	0.57	-0.03	1.71	1.68	2	2	0	1800	1800	0
7/31/2024 13:42	43101	SMIL_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/31/2024 13:42	43108	SMIL_T2	0	1	1	0	0	0	-0.66	-0.64	1	1	0	1200	1200	0
7/31/2024 13:42	61303	EARL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
7/31/2024 13:42	45502	DERR_T2	195	187	-8	1.21	0.66	-0.55	0	0	0	0	0	0	0	0
7/31/2024 13:43	46203	DANV_T2	0	3	3	0	0	0	-1.15	-1.16	0	0	0	0	0	0
7/31/2024 13:43	46204	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
7/31/2024 13:43	45502	DERR_T2	195	187	-8	1.21	0.66	-0.55	0	0	0	0	0	0	0	0
7/31/2024 13:43	46206	DANV_T2	8	10	2	0.65	0.59	-0.06	0	0	0	0	0	0	0	0
7/31/2024 13:43	45501	DERR_T2	87	81	-6	0.6	0.57	-0.03	1.71	1.68	2	2	0	1800	1800	0
7/31/2024 13:44	63803	HEMP_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/31/2024 13:44	63804	HEMP_T1	1	1	0	8.9	7.7	-1.2	0.45	-0.77	0	0	0	0	0	0
7/31/2024 13:45	42301	MOWR_T2	3	15	12	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
7/31/2024 13:45	46302	ROHR_T1	2	4	2	1.1	1.2	0.1	0.4	0.45	0	0	0	0	0	0
7/31/2024 13:45	46301	ROHR_T1	1	15	14	0.7	0.29	-0.41	0	0	0	0	0	0	0	0
7/31/2024 13:45	42302	MOWR_T2	23	0	-23	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/31/2024 13:46	42301	MOWR_T2	3	15	12	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
7/31/2024 13:46	42302	MOWR_T2	23	0	-23	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/31/2024 13:46	22903	HARW_T1	0	3	3	0	0	0	-0.35	-0.37	0	0	0	0	0	0
7/31/2024 13:46	22901	HARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/31/2024 13:47	61701	ELIZ_T1	1	2	1	2.2	1.05	-1.15	0	0	0	0	0	0	0	0
7/31/2024 13:47	53502	EVIL_T2	2	3	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/31/2024 13:47	47101	MARL_T1	17	43	26	0.46	0.8	0.34	-1.41	-1.46	2	2	0	1200	1200	0
7/31/2024 13:47	61703	ELIZ_T1	0	1	1	0	0	0	-2.28	-2.27	2	2	0	2100	2100	0
7/31/2024 13:47	53501	EVIL_T2	2	2	0	0.35	0.65	0.3	-1.05	-1.08	5	5	0	2900	2900	0
7/31/2024 13:48	47001	HUGH_T2	4	3	-1	5.65	8.47	2.82	0	0	0	0	0	0	0	0
7/31/2024 13:48	47101	MARL_T1	17	43	26	0.46	0.8	0.34	-1.41	-1.46	2	2	0	1200	1200	0
7/31/2024 13:49	47001	HUGH_T2	4	3	-1	5.65	8.47	2.82	0	0	0	0	0	0	0	0
7/31/2024 13:49	64101	REFR_T1	11	12	1	1.13	0.93	-0.2	0.08	0.12	0	0	0	0	0	0
7/31/2024 13:50	52006	LING_T2	0	5	5	0	0.32	0.32	0	0	0	0	0	0	0	0
7/31/2024 13:50	64201	KINZ_T1	31	74	43	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
7/31/2024 13:50	52002	LING_T2	1	5	4	0.2	0.4	0.2	0	0	0	0	0	0	0	0
7/31/2024 13:50	64202	KINZ_T1	2	7	5	0.65	0.33	-0.32	0	0	0	0	0	0	0	0
7/31/2024 13:50	64204	KINZ_T1	1	2	1	0.5	0.75	0.25	0	0	0	0	0	0	0	0
7/31/2024 13:50	64203	KINZ_T1	6	12	6	1.08	1.45	0.37	0.62	0.56	3	3	0	2100	2100	0
7/31/2024 13:50	52004	LING_T2	3	7	4	3.37	2.08	-1.29	0.37	0.43	0	0	0	0	0	0
7/31/2024 13:51	59101	WALK_T2	2	16	14	1	0.2	-0.8	1.27	1.59	3	3	0	1800	1800	0
7/31/2024 13:51	57702	PAXT_T1	0	0	0	0	0	0	-0.06	-0.02	0	0	0	0	0	0
7/31/2024 13:52	64101	REFR_T1	11	12	1	1.13	0.93	-0.2	0.12	0.11	0	0	0	0	0	0
7/31/2024 13:52	51303	WIND_T1	14	14	0	0.29	0.56	0.27	0	0	0	0	0	0	0	0
7/31/2024 13:52	51301	WIND_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
7/31/2024 13:52	51305	WIND_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/31/2024 13:53	66701	STRA_T1	1	5	4	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/31/2024 13:53	66703	STRA_T1	8	15	7	0.71	0.57	-0.14	0.27	0.38	0	0	0	0	0	0
7/31/2024 13:54	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/31/2024 13:56	29402	BELT_T1	1	1	0	7.5	8.2	0.7	0	0	0	0	0	0	0	0
7/31/2024 13:56	29401	BELT_T1	0	1	1	0	0	0	0	0	1	1	0	900	900	0
7/31/2024 13:56	56504	ROCK_T2	5	6	1	0.76	1.12	0.36	1.39	1.35	0	0	0	0	0	0
7/31/2024 13:56	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 13:56	56501	ROCK_T2	3	1	-2	0.57	0.8	0.23	0	0	0	0	0	0	0	0
7/31/2024 13:59	47001	HUGH_T2	4	3	-1	5.65	8.47	2.82	0	-0.85	0	1	1	0	900	900
7/31/2024 14:00	52006	LING_T2	5	5	0	0.48	0.2	-0.28	0	0	0	0	0	0	0	0
7/31/2024 14:00	52004	LING_T2	4	8	4	2.55	2.1	-0.45	0	0	0	0	0	0	0	0
7/31/2024 14:00	64202	KINZ_T1	4	14	10	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
7/31/2024 14:00	64203	KINZ_T1	9	23	14	1.03	1.56	0.53	0.56	0.78	3	3	0	2100	2100	0
7/31/2024 14:00	52002	LING_T2	5	4	-1	0.36	1.55	1.19	0.3	0.24	1	1	0	900	900	0
7/31/2024 14:00	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 14:00	64201	KINZ_T1	52	174	122	0.34	0.41	0.07	0	0	0	0	0	0	0	0
7/31/2024 14:00	64204	KINZ_T1	2	3	1	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
7/31/2024 14:00	56501	ROCK_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
7/31/2024 14:00	56504	ROCK_T2	6	8	2	0.95	1.24	0.29	0.69	0.68	0	0	0	0	0	0
7/31/2024 14:02	64305	LINC_T1	1	2	1	1	0.75	-0.25	0.01	-0.04	0	0	0	0	0	0
7/31/2024 14:02	46101	MACI_T2	0	0	0	0	0	0	-0.1	-0.23	1	1	0	1200	1200	0
7/31/2024 14:02	47001	HUGH_T2	3	3	0	7.8	8.53	0.73	0	-0.85	0	1	1	0	900	900
7/31/2024 14:02	59302	MCAL_T1	21	7	-14	0.75	1.13	0.38	0	0	0	0	0	0	0	0
7/31/2024 14:02	53501	EVIL_T2	2	1	-1	0.65	0.2	-0.45	-1.08	-1.03	5	5	0	2900	2900	0
7/31/2024 14:02	59301	MCAL_T1	6	6	0	0.72	0.38	-0.34	-1.12	-1.1	1	1	0	600	600	0
7/31/2024 14:02	53502	EVIL_T2	3	5	2	0.83	0.43	-0.4	0	0	0	0	0	0	0	0
7/31/2024 14:03	65604	QVIL_T2	0	0	0	0	0	0	1.06	1.03	0	0	0	0	0	0
7/31/2024 14:03	65601	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 14:04	47101	MARL_T1	24	70	46	0.81	0.68	-0.13	-0.73	-0.69	1	1	0	600	600	0
7/31/2024 14:06	48902	FOSP_T2	0	0	0	0	0	0	-0.01	-0.27	1	1	0	1200	1200	0
7/31/2024 14:07	65601	QVIL_T2	0	1	1	0	0	0	0.39	0.35	1	1	0	900	900	0
7/31/2024 14:07	57002	WHHI_T2	0	0	0	0	0	0	-1.26	-1.2	1	1	0	1200	1200	0
7/31/2024 14:07	57003	WHHI_T2	14	14	0	2.54	1.64	-0.9	0	0	0	0	0	0	0	0
7/31/2024 14:07	57004	WHHI_T2	1	1	0	2.8	2.3	-0.5	0	0	0	0	0	0	0	0
7/31/2024 14:08	44301	BEAV_T2	1	1	0	1.9	0.2	-1.7	-0.04	-0.4	2	2	0	1500	1500	0
7/31/2024 14:10	44301	BEAV_T2	1	1	0	1.9	0.2	-1.7	-0.04	-0.4	2	2	0	1500	1500	0
7/31/2024 14:10	20402	ASHF_T2	18	10	-8	1.23	0.91	-0.32	0	0	0	0	0	0	0	0
7/31/2024 14:10	20403	ASHF_T2	0	17	17	0	0.15	0.15	0.81	1.14	0	0	0	0	0	0
7/31/2024 14:10	20401	ASHF_T2	6	8	2	2.1	1.38	-0.72	0	0	0	0	0	0	0	0
7/31/2024 14:11	44301	BEAV_T2	1	1	0	1.9	0.2	-1.7	-0.04	-0.4	2	2	0	1500	1500	0
7/31/2024 14:13	63802	HEMP_T1	0	1	1	0	0	0	0.24	0.25	0	0	0	0	0	0
7/31/2024 14:13	63803	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 14:13	63804	HEMP_T1	1	1	0	7.7	7.7	0	0	0	0	0	0	0	0	0
7/31/2024 14:15	53501	EVIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
7/31/2024 14:15	46206	DANV_T2	6	36	30	0.72	0.6	-0.12	0	0	0	0	0	0	0	0
7/31/2024 14:15	53502	EVIL_T2	3	5	2	0.43	0.48	0.05	0.8	0.71	2	2	0	1200	1200	0
7/31/2024 14:15	46203	DANV_T2	2	2	0	0.4	0	-0.4	-1.17	-1.16	0	0	0	0	0	0
7/31/2024 14:15	46204	DANV_T2	0	4	4	0	0.17	0.17	0	0	0	0	0	0	0	0
7/31/2024 14:17	53501	EVIL_T2	1	1	0	0.2	0.1	-0.1	-1.03	-1.03	5	5	0	2900	2900	0
7/31/2024 14:17	64302	LINC_T2	25	84	59	0.74	0.63	-0.11	1.89	1.88	0	0	0	0	0	0
7/31/2024 14:17	53502	EVIL_T2	3	5	2	0.43	0.48	0.05	0	0	0	0	0	0	0	0
7/31/2024 14:18	47101	MARL_T1	43	82	39	0.66	0.79	0.13	-0.69	-0.6	1	1	0	600	600	0
7/31/2024 14:18	53502	EVIL_T2	3	5	2	0.43	0.48	0.05	0	0	0	0	0	0	0	0
7/31/2024 14:18	53501	EVIL_T2	1	1	0	0.2	0.1	-0.1	-1.03	-1.03	5	5	0	2900	2900	0
7/31/2024 14:19	64101	REFR_T1	11	11	0	0.95	1.11	0.16	0.11	0.16	0	0	0	0	0	0
7/31/2024 14:21	64101	REFR_T1	11	11	0	0.95	1.11	0.16	0.32	0.36	0	0	0	0	0	0
7/31/2024 14:22	42301	MOWR_T2	15	8	-7	0.5	0.25	-0.25	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/31/2024 14:24	42701	AUGU_T1	12	33	21	0.43	0.35	-0.08	0	0	2	2	0	1800	1800	0
7/31/2024 14:24	44301	BEAV_T2	0	1	1	0	0.2	0.2	-0.4	-0.51	2	2	0	1500	1500	0
7/31/2024 14:25	42701	AUGU_T1	12	33	21	0.43	0.35	-0.08	0	0	0	0	0	0	0	0
7/31/2024 14:26	44301	BEAV_T2	0	1	1	0	0.2	0.2	-0.4	-0.51	2	2	0	1500	1500	0
7/31/2024 14:27	46204	DANV_T2	0	4	4	0	0.17	0.17	0	0	0	0	0	0	0	0
7/31/2024 14:27	46203	DANV_T2	2	2	0	0.4	0	-0.4	-1.16	-1.12	0	0	0	0	0	0
7/31/2024 14:27	46206	DANV_T2	6	36	30	0.72	0.6	-0.12	1.33	1.46	2	2	0	2100	2100	0
7/31/2024 14:29	40101	HUNT_T2	138	243	105	0.44	0.55	0.11	-0.32	-0.39	0	0	0	0	0	0
7/31/2024 14:31	58705	ROSE_T2	2	3	1	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
7/31/2024 14:31	58706	ROSE_T2	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
7/31/2024 14:31	58701	ROSE_T2	0	0	0	0	0	0	-1.47	-1.44	1	1	0	600	600	0
7/31/2024 14:33	47001	HUGH_T2	3	3	0	8.43	8.5	0.07	-0.84	-0.82	1	1	0	900	900	0
7/31/2024 14:34	40101	HUNT_T2	192	287	95	0.58	0.5	-0.08	-0.32	-0.39	0	0	0	0	0	0
7/31/2024 14:34	57401	SPAN_T1	6	20	14	1.17	0.65	-0.52	-0.5	-0.61	1	1	0	600	600	0
7/31/2024 14:34	57403	SPAN_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
7/31/2024 14:36	64101	REFR_T1	11	15	4	1.92	1.11	-0.81	0.18	0.18	0	0	0	0	0	0
7/31/2024 14:40	42701	AUGU_T1	25	36	11	0.36	0.46	0.1	0	0	0	0	0	0	0	0
7/31/2024 14:41	44301	BEAV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/31/2024 14:42	47403	PENS_T1	1	1	0	0.7	1.5	0.8	0	0	0	0	0	0	0	0
7/31/2024 14:42	46206	DANV_T2	26	66	40	0.58	0.66	0.08	1.46	1.72	2	2	0	2100	2100	0
7/31/2024 14:42	46204	DANV_T2	3	53	50	0.2	0.2	0	0	0	0	0	0	0	0	0
7/31/2024 14:42	47401	PENS_T1	1	1	0	0.9	0.4	-0.5	0.78	0.84	0	0	0	0	0	0
7/31/2024 14:42	46203	DANV_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/31/2024 14:42	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/31/2024 14:43	61504	EPET_T2	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
7/31/2024 14:43	52204	DEVO_T2	7	7	0	1.43	1.55	0.12	0	0	0	0	0	0	0	0
7/31/2024 14:43	52202	DEVO_T2	0	0	0	0	0	0	-1.72	-1.67	0	0	0	0	0	0
7/31/2024 14:43	61501	EPET_T2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
7/31/2024 14:44	53601	DALM_T2	3	4	1	0.33	0.4	0.07	-0.95	-0.94	2	2	0	1500	1500	0
7/31/2024 14:46	53501	EVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
7/31/2024 14:46	53502	EVIL_T2	4	3	-1	0.5	0.3	-0.2	0.72	0.65	2	2	0	1200	1200	0
7/31/2024 14:47	64203	KINZ_T1	10	12	2	1.27	1.55	0.28	0.73	0.73	3	3	0	2100	2100	0
7/31/2024 14:47	64204	KINZ_T1	3	3	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
7/31/2024 14:47	64201	KINZ_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/31/2024 14:49	43202	MVIL_T2	1	1	0	0.5	0.4	-0.1	-0.25	-0.23	0	0	0	0	0	0
7/31/2024 14:49	47104	MARL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 14:49	47101	MARL_T1	80	126	46	0.86	1.17	0.31	-0.58	-0.43	1	1	0	600	600	0
7/31/2024 14:50	44203	POIN_T2	3	9	6	0.13	0.67	0.54	0	0	0	0	0	0	0	0
7/31/2024 14:50	44202	POIN_T2	0	1	1	0	0	0	-0.68	-0.66	2	2	0	1800	1800	0
7/31/2024 14:52	47403	PENS_T1	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
7/31/2024 14:52	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/31/2024 14:52	51202	MTON_T2	1	0	-1	0.1	0	-0.1	-1.03	-1.05	2	2	0	2400	2400	0
7/31/2024 14:52	47401	PENS_T1	1	6	5	0.4	0.5	0.1	0.84	0.79	0	0	0	0	0	0
7/31/2024 14:56	45502	DERR_T2	16	42	26	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
7/31/2024 14:56	45501	DERR_T2	20	60	40	0.86	0.63	-0.23	3.31	3.28	4	4	0	3600	3600	0
7/31/2024 14:58	45602	WOOL_T1	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
7/31/2024 14:58	45601	WOOL_T1	0	0	0	0	0	0	0.23	0.23	1	1	0	1200	1200	0
7/31/2024 15:00	26803	JAFR_T1	0	0	0	0	0	0	0.03	0.07	1	1	0	900	900	0
7/31/2024 15:01	22903	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 15:01	22901	HARW_T1	0	0	0	0	0	0	0.13	-0.14	1	1	0	1200	1200	0
7/31/2024 15:02	22901	HARW_T1	0	0	0	0	0	0	0.13	-0.14	1	1	0	1200	1200	0
7/31/2024 15:02	22903	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 15:06	57403	SPAN_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
7/31/2024 15:06	57401	SPAN_T1	11	38	27	0.59	0.54	-0.05	-0.62	-0.58	1	1	0	600	600	0
7/31/2024 15:10	45801	HEGI_T1	0	0	0	0	0	0	-0.07	-0.07	1	1	0	900	900	0
7/31/2024 15:12	52204	DEVO_T2	7	7	0	1.37	1.27	-0.1	0	0	0	0	0	0	0	0
7/31/2024 15:12	52202	DEVO_T2	0	1	1	0	0	0	-3.31	-3.22	0	0	0	0	0	0
7/31/2024 15:13	43104	SMIL_T2	0	0	0	0	0	0	-0.19	-0.18	1	1	0	300	300	0
7/31/2024 15:13	43101	SMIL_T2	2	9	7	0.25	0.34	0.09	0	0	0	0	0	0	0	0
7/31/2024 15:13	43108	SMIL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
7/31/2024 15:14	49804	UNIV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 15:14	43101	SMIL_T2	2	9	7	0.25	0.34	0.09	0	0	0	0	0	0	0	0
7/31/2024 15:14	43104	SMIL_T2	0	0	0	0	0	0	-0.19	-0.18	1	1	0	300	300	0
7/31/2024 15:14	49803	UNIV_T1	1	1	0	6.2	6.1	-0.1	-1.44	-1.49	0	0	0	0	0	0
7/31/2024 15:14	43108	SMIL_T2	1	1	0	0.1	0.4	0.3	-0.6	-0.59	1	1	0	1200	1200	0
7/31/2024 15:15	53601	DALM_T2	1	2	1	0.8	0.6	-0.2	-1.21	-1.16	2	2	0	1500	1500	0
7/31/2024 15:15	43101	SMIL_T2	5	13	8	0.84	0.44	-0.4	0	0	0	0	0	0	0	0
7/31/2024 15:15	43104	SMIL_T2	0	0	0	0	0	0	-0.19	-0.18	1	1	0	300	300	0
7/31/2024 15:15	43108	SMIL_T2	1	2	1	0.5	0.3	-0.2	-0.6	-0.59	1	1	0	1200	1200	0
7/31/2024 15:16	52202	DEVO_T2	0	1	1	0	0	0	-3.31	-3.22	0	0	0	0	0	0
7/31/2024 15:16	52204	DEVO_T2	6	7	1	1.27	1.38	0.11	0	0	0	0	0	0	0	0
7/31/2024 15:17	40101	HUNT_T2	392	307	-85	0.66	0.64	-0.02	0	0	0	0	0	0	0	0
7/31/2024 15:17	43104	SMIL_T2	0	0	0	0	0	0	-0.19	-0.18	1	1	0	300	300	0
7/31/2024 15:17	22903	HARW_T1	0	11	11	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 15:17	22901	HARW_T1	0	1	1	0	0	0	-0.14	-0.25	1	1	0	1200	1200	0
7/31/2024 15:17	43101	SMIL_T2	5	13	8	0.84	0.44	-0.4	0	0	0	0	0	0	0	0
7/31/2024 15:17	43108	SMIL_T2	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
7/31/2024 15:19	40101	HUNT_T2	392	307	-85	0.66	0.64	-0.02	-0.27	-0.32	0	0	0	0	0	0
7/31/2024 15:25	47402	PENS_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
7/31/2024 15:25	47403	PENS_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
7/31/2024 15:25	47401	PENS_T1	6	6	0	0.77	0.53	-0.24	1.68	1.09	0	0	0	0	0	0
7/31/2024 15:30	46205	DANV_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
7/31/2024 15:30	46203	DANV_T2	4	9	5	0.33	0.3	-0.03	-1.05	-1.01	0	0	0	0	0	0
7/31/2024 15:30	46204	DANV_T2	92	120	28	0.46	0.51	0.05	0	0	0	0	0	0	0	0
7/31/2024 15:30	46206	DANV_T2	76	94	18	0.95	0.97	0.02	0	0	0	0	0	0	0	0
7/31/2024 15:33	22903	HARW_T1	1	10	9	0.3	0.54	0.24	0	0	0	0	0	0	0	0
7/31/2024 15:33	22901	HARW_T1	0	1	1	0	0.3	0.3	-0.25	-0.15	1	1	0	1200	1200	0
7/31/2024 15:34	25603	ARRO_T1	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
7/31/2024 15:34	55001	NEWP_T1	35	36	1	0.57	0.56	-0.01	0	0.03	1	1	0	600	600	0
7/31/2024 15:35	41901	REED_T1	4	9	5	0.8	0.29	-0.51	0	0	0	0	0	0	0	0
7/31/2024 15:35	55001	NEWP_T1	35	36	1	0.57	0.56	-0.01	0	0.03	1	1	0	600	600	0
7/31/2024 15:35	41902	REED_T1	15	42	27	0.41	0.53	0.12	-0.08	-0.03	1	1	0	900	900	0
7/31/2024 15:35	50701	SMEC_T1	0	0	0	0	0	0	-1.28	-1.26	2	2	0	2100	2100	0
7/31/2024 15:37	64101	REFR_T1	17	24	7	1.84	1.36	-0.48	0.19	-0.32	0	0	0	0	0	0
7/31/2024 15:40	45502	DERR_T2	56	11	-45	0.52	0.13	-0.39	0	0	0	0	0	0	0	0
7/31/2024 15:40	45501	DERR_T2	54	33	-21	0.63	0.61	-0.02	1.69	1.6	2	2	0	1800	1800	0
7/31/2024 15:41	46001	BERW_T1	2	2	0	0.45	0	-0.45	1.82	1.84	0	0	0	0	0	0
7/31/2024 15:42	45501	DERR_T2	54	33	-21	0.63	0.61	-0.02	1.69	1.6	2	2	0	1800	1800	0
7/31/2024 15:42	45502	DERR_T2	56	11	-45	0.52	0.13	-0.39	0	0	0	0	0	0	0	0
7/31/2024 15:43	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 15:43	21206	ECAR_T2	3	24	21	2.53	1.4	-1.13	0.58	0.51	0	0	0	0	0	0
7/31/2024 15:43	21202	ECAR_T2	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
7/31/2024 15:44	46001	BERW_T1	2	2	0	0.45	0	-0.45	1.82	1.84	0	0	0	0	0	0
7/31/2024 15:46	45502	DERR_T2	11	4	-7	0.47	0.15	-0.32	0	0	0	0	0	0	0	0
7/31/2024 15:46	45501	DERR_T2	31	24	-7	0.62	0.5	-0.12	1.69	1.6	2	2	0	1800	1800	0
7/31/2024 15:48	41001	LAUR_T2	34	52	18	0.58	0.62	0.04	0	0	0	0	0	0	0	0
7/31/2024 15:48	41002	LAUR_T2	4	4	0	0.85	0.65	-0.2	0.41	0.41	0	0	0	0	0	0
7/31/2024 15:51	46301	ROHR_T1	3	5	2	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
7/31/2024 15:51	46302	ROHR_T1	2	3	1	1.05	1.15	0.1	0.49	0.49	0	0	0	0	0	0
7/31/2024 15:53	56501	ROCK_T2	1	4	3	0.4	0.1	-0.3	-2.31	-2.4	0	0	0	0	0	0
7/31/2024 15:53	56504	ROCK_T2	14	16	2	0.42	0.41	-0.01	0	0	0	0	0	0	0	0
7/31/2024 15:54	42701	AUGU_T1	57	71	14	0.87	0.51	-0.36	0	0	2	2	0	1800	1800	0
7/31/2024 15:56	42701	AUGU_T1	57	71	14	0.87	0.51	-0.36	0	0	2	2	0	1800	1800	0
7/31/2024 15:56	56501	ROCK_T2	1	4	3	0.4	0.1	-0.3	-1.16	-1.2	0	0	0	0	0	0
7/31/2024 15:56	56504	ROCK_T2	14	16	2	0.42	0.41	-0.01	0	0	0	0	0	0	0	0
7/31/2024 15:57	46204	DANV_T2	117	118	1	0.57	0.48	-0.09	0	0	0	0	0	0	0	0
7/31/2024 15:57	56501	ROCK_T2	1	4	3	0.4	0.1	-0.3	-2.31	-2.4	0	0	0	0	0	0
7/31/2024 15:57	46203	DANV_T2	3	8	5	0.37	0.3	-0.07	-1.94	-0.7	0	0	0	0	0	0
7/31/2024 15:57	46206	DANV_T2	87	94	7	1.07	0.96	-0.11	0	0	0	0	0	0	0	0
7/31/2024 15:57	46205	DANV_T2	2	3	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/31/2024 15:57	56504	ROCK_T2	14	16	2	0.42	0.41	-0.01	0	0	0	0	0	0	0	0
7/31/2024 15:58	56504	ROCK_T2	14	16	2	0.42	0.41	-0.01	0	0	0	0	0	0	0	0
7/31/2024 15:58	46204	DANV_T2	117	118	1	0.57	0.48	-0.09	0	0	0	0	0	0	0	0
7/31/2024 15:58	46206	DANV_T2	87	94	7	1.07	0.96	-0.11	0	0	0	0	0	0	0	0
7/31/2024 15:58	46203	DANV_T2	3	8	5	0.37	0.3	-0.07	-1.94	-0.7	0	0	0	0	0	0
7/31/2024 15:58	46205	DANV_T2	2	3	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
7/31/2024 15:58	40201	BEGA_T2	6	5	-1	0.97	0.7	-0.27	0	0	0	0	0	0	0	0
7/31/2024 15:58	56501	ROCK_T2	1	4	3	0.4	0.1	-0.3	-2.31	-2.4	0	0	0	0	0	0
7/31/2024 15:59	43108	SMIL_T2	2	3	1	0.25	0.35	0.1	0	0	0	0	0	0	0	0
7/31/2024 15:59	42503	ALTA_T2	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
7/31/2024 15:59	43104	SMIL_T2	0	0	0	0	0	0	-0.18	-0.17	1	1	0	300	300	0
7/31/2024 15:59	43101	SMIL_T2	13	11	-2	0.49	0.64	0.15	0	0	0	0	0	0	0	0
7/31/2024 16:02	43103	SMIL_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 16:02	43104	SMIL_T2	0	0	0	0	0	0	-0.18	-0.17	1	1	0	300	300	0
7/31/2024 16:02	43101	SMIL_T2	9	11	2	0.86	0.73	-0.13	0	0	0	0	0	0	0	0
7/31/2024 16:02	43108	SMIL_T2	2	5	3	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
7/31/2024 16:07	21701	SUBU_T1	3	8	5	2.87	7.7	4.83	0	0	0	0	0	0	0	0
7/31/2024 16:07	21703	SUBU_T1	0	0	0	0	0	0	-0.13	-0.2	0	0	0	0	0	0
7/31/2024 16:07	21705	SUBU_T1	1	1	0	6.7	7	0.3	0	0	0	0	0	0	0	0
7/31/2024 16:08	66901	SHIL_T2	0	0	0	0	0	0	-1.77	-1.71	1	1	0	1200	1200	0
7/31/2024 16:12	61304	EARL_T1	0	0	0	0	0	0	-0.05	-0.05	1	1	0	600	600	0
7/31/2024 16:16	58705	ROSE_T2	4	2	-2	0.73	1.2	0.47	0	0	0	0	0	0	0	0
7/31/2024 16:16	58706	ROSE_T2	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
7/31/2024 16:16	58701	ROSE_T2	0	0	0	0	0	0	-1.39	-1.36	1	1	0	600	600	0
7/31/2024 16:17	26401	INOR_T1	55	38	-17	0.6	0.71	0.11	0	0	0	0	0	0	0	0
7/31/2024 16:17	26402	INOR_T1	117	94	-23	0.74	0.51	-0.23	-1.11	-1.17	1	1	0	600	600	0
7/31/2024 16:18	57701	PAXT_T1	1	1	0	1.6	3.6	2	0	0	0	0	0	0	0	0
7/31/2024 16:18	57702	PAXT_T1	1	5	4	0.3	0.1	-0.2	0.09	0.11	0	0	0	0	0	0
7/31/2024 16:21	67103	SPRI_T1	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
7/31/2024 16:24	56504	ROCK_T2	12	25	13	0.72	0.26	-0.46	0	0	0	0	0	0	0	0
7/31/2024 16:24	56501	ROCK_T2	4	5	1	0.63	3.3	2.67	-1.2	-1.76	0	0	0	0	0	0
7/31/2024 16:24	56503	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/31/2024 16:30	40101	HUNT_T2	252	160	-92	0.5	0.35	-0.15	-0.51	-1.11	0	0	0	0	0	0
7/31/2024 16:31	40101	HUNT_T2	252	160	-92	0.5	0.35	-0.15	-0.51	-1.11	0	0	0	0	0	0
7/31/2024 16:32	52403	GRPA_T2	103	108	5	1.11	1.43	0.32	0	0	0	0	0	0	0	0
7/31/2024 16:32	52401	GRPA_T2	9	86	77	0.41	0.62	0.21	0	0	0	0	0	0	0	0
7/31/2024 16:32	52404	GRPA_T2	2	1	-1	0.55	0.9	0.35	0	0	0	0	0	0	0	0
7/31/2024 16:32	52402	GRPA_T2	102	129	27	1.1	0.63	-0.47	-0.09	-0.21	0	0	0	0	0	0
7/31/2024 16:33	40101	HUNT_T2	252	160	-92	0.5	0.35	-0.15	-0.51	-1.11	0	0	0	0	0	0
7/31/2024 16:34	52402	GRPA_T2	102	129	27	1.1	0.63	-0.47	-0.09	-0.21	0	0	0	0	0	0
7/31/2024 16:34	52403	GRPA_T2	103	108	5	1.11	1.43	0.32	0	0	0	0	0	0	0	0
7/31/2024 16:34	52401	GRPA_T2	9	86	77	0.41	0.62	0.21	0	0	0	0	0	0	0	0
7/31/2024 16:34	52404	GRPA_T2	2	1	-1	0.55	0.9	0.35	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/31/2024 16:38	45302	WBER_T2	8	16	8	0.35	0.37	0.02	1.66	0	0	0	0	0	0	0
7/31/2024 16:40	45302	WBER_T2	8	16	8	0.35	0.37	0.02	1.66	0	0	0	0	0	0	0
7/31/2024 16:40	45902	AUBU_T1	36	74	38	0.68	0.87	0.19	-0.11	-0.2	1	1	0	600	600	0
7/31/2024 16:40	51304	WIND_T2	0	0	0	0	0	0	0.46	0.41	0	0	0	0	0	0
7/31/2024 16:44	61703	ELIZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 16:44	61701	ELIZ_T1	1	3	2	1.4	1.3	-0.1	1.56	1.32	0	0	0	0	0	0
7/31/2024 16:47	61701	ELIZ_T1	3	1	-2	0.43	1.3	0.87	1.56	1.32	0	0	0	0	0	0
7/31/2024 16:47	61703	ELIZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 16:48	61701	ELIZ_T1	3	1	-2	0.43	1.3	0.87	1.56	1.32	0	0	0	0	0	0
7/31/2024 16:48	61703	ELIZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 16:53	24902	WHHA_T1	46	98	52	0.46	0.52	0.06	0	0	0	0	0	0	0	0
7/31/2024 16:53	24901	WHHA_T1	0	1	1	0	0	0	0.96	0.98	0	0	0	0	0	0
7/31/2024 16:54	45302	WBER_T2	13	16	3	0.38	0.46	0.08	0	1.63	0	0	0	0	0	0
7/31/2024 16:56	45302	WBER_T2	13	16	3	0.38	0.46	0.08	0	1.63	0	0	0	0	0	0
7/31/2024 16:58	24902	WHHA_T1	46	98	52	0.46	0.52	0.06	0	0	0	0	0	0	0	0
7/31/2024 16:58	24901	WHHA_T1	0	1	1	0	0	0	0.96	0.98	0	0	0	0	0	0
7/31/2024 17:05	27605	PIRI_T2	212	176	-36	0.86	0.84	-0.02	0.71	0.7	1	1	0	900	900	0
7/31/2024 17:05	27603	PIRI_T2	1	1	0	3.2	0	-3.2	0	0	0	0	0	0	0	0
7/31/2024 17:05	64202	KINZ_T1	1	1	0	1.4	0.5	-0.9	0	0	0	0	0	0	0	0
7/31/2024 17:05	64201	KINZ_T1	0	1	1	0	0.5	0.5	-0.94	-0.99	5	5	0	3300	3300	0
7/31/2024 17:05	64203	KINZ_T1	2	1	-1	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
7/31/2024 17:05	64204	KINZ_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
7/31/2024 17:06	51004	NHAR_T1	8	2	-6	1.21	7.2	5.99	0	0	0	0	0	0	0	0
7/31/2024 17:06	51003	NHAR_T1	5	11	6	0.18	0.1	-0.08	-0.81	-0.9	1	1	0	1200	1200	0
7/31/2024 17:08	51201	MTON_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
7/31/2024 17:09	61703	ELIZ_T1	1	2	1	1.5	0	-1.5	0	0	0	0	0	0	0	0
7/31/2024 17:09	61701	ELIZ_T1	1	1	0	1.3	1.2	-0.1	1.58	1.52	0	0	0	0	0	0
7/31/2024 17:09	58001	WCAR_T1	5	0	0	0.34	0	-0.34	-0.68	-0.72	0	0	0	0	0	0
7/31/2024 17:09	58003	WCAR_T1	4	0	-4	0.25	0	-0.25	0	0	0	0	0	0	0	0
7/31/2024 17:09	59101	WALK_T2	14	25	11	0.5	0.64	0.14	0.89	0.85	3	3	0	1800	1800	0
7/31/2024 17:11	51602	DUKE_T2	1	6	5	0.4	0.5	0.1	0	0	2	2	0	2400	2400	0
7/31/2024 17:11	61802	EELI_T2	8	8	0	0.76	0.71	-0.05	0	0	0	0	0	0	0	0
7/31/2024 17:11	61801	EELI_T2	7	9	2	0.57	0.67	0.1	0.1	0.1	1	1	0	600	600	0
7/31/2024 17:12	51602	DUKE_T2	1	6	5	0.4	0.5	0.1	0	0	1	1	0	1200	1200	0
7/31/2024 17:20	61701	ELIZ_T1	1	1	0	1.2	0.9	-0.3	1.58	1.52	0	0	0	0	0	0
7/31/2024 17:20	61703	ELIZ_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
7/31/2024 17:30	61701	ELIZ_T1	1	2	1	0.8	1	0.2	1.52	1.59	0	0	0	0	0	0
7/31/2024 17:30	61703	ELIZ_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
7/31/2024 17:33	47104	MARL_T1	27	30	3	0.63	0.89	0.26	0	0	0	0	0	0	0	0
7/31/2024 17:33	47101	MARL_T1	626	629	3	1.09	1.04	-0.05	-0.43	-0.42	1	1	0	600	600	0
7/31/2024 17:35	62102	ELAN_T1	0	2	2	0	0	0	1.42	1.39	0	0	0	0	0	0
7/31/2024 17:36	16505	STRO_T1	12	12	0	3.66	2.73	-0.93	0	0	0	0	0	0	0	0
7/31/2024 17:36	16504	STRO_T1	0	1	1	0	1.1	1.1	0.95	1.02	0	0	0	0	0	0
7/31/2024 17:44	41802	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 17:44	41801	GOCI_T2	0	3	3	0	0.45	0.45	0	0	0	0	0	0	0	0
7/31/2024 17:44	43103	SMIL_T2	8	3	-5	0.44	0.25	-0.19	0	0	0	0	0	0	0	0
7/31/2024 17:44	43101	SMIL_T2	38	51	13	0.84	0.8	-0.04	-0.41	-0.42	1	1	0	300	300	0
7/31/2024 17:44	43108	SMIL_T2	8	8	0	0.36	0.4	0.04	0	0	0	0	0	0	0	0
7/31/2024 17:44	43104	SMIL_T2	4	10	6	0.5	0.53	0.03	0	0	0	0	0	0	0	0
7/31/2024 17:47	41801	GOCI_T2	3	2	-1	0.87	0	-0.87	0	0	0	0	0	0	0	0
7/31/2024 17:47	41802	GOCI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/31/2024 17:48	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 17:54	57106	SPHI_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
7/31/2024 17:54	57101	SPHI_T2	0	7	7	0	0.18	0.18	0	0	0	0	0	0	0	0
7/31/2024 17:54	57104	SPHI_T2	0	0	0	0	0	0	-1.62	-1.62	1	1	0	900	900	0
7/31/2024 17:55	61304	EARL_T1	6	6	0	1.42	0.2	-1.22	0	0	0	0	0	0	0	0
7/31/2024 17:55	61303	EARL_T1	1	2	1	1.2	0.4	-0.8	-0.44	-0.46	0	0	0	0	0	0
7/31/2024 17:55	61302	EARL_T1	1	1	0	1.5	2.8	1.3	0	0	0	0	0	0	0	0
7/31/2024 17:57	63201	MGTN_T2	3	3	0	1.6	1.3	-0.3	0.54	0.48	3	3	0	2400	2400	0
7/31/2024 17:58	61303	EARL_T1	1	2	1	1.2	0.4	-0.8	-0.44	-0.46	0	0	0	0	0	0
7/31/2024 17:58	61302	EARL_T1	1	1	0	1.5	2.8	1.3	0	0	0	0	0	0	0	0
7/31/2024 17:58	61304	EARL_T1	6	6	0	1.42	0.2	-1.22	0	0	0	0	0	0	0	0
7/31/2024 17:59	45501	DERR_T2	52	48	-4	0.63	0.38	-0.25	0.91	0.87	2	2	0	1800	1800	0
7/31/2024 17:59	45502	DERR_T2	18	12	-6	0.81	0.75	-0.06	0	0	0	0	0	0	0	0
7/31/2024 18:01	47201	FAXO_T2	14	10	-4	1.11	1.1	-0.01	0	0	0	0	0	0	0	0
7/31/2024 18:01	47203	FAXO_T2	2	1	-1	1.4	2.7	1.3	-1.27	-1.26	1	1	0	1200	1200	0
7/31/2024 18:03	42902	MIDD_T2	29	30	1	3.14	2.5	-0.64	-0.65	-0.66	1	1	0	600	600	0
7/31/2024 18:03	42903	MIDD_T2	6	5	-1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/31/2024 18:03	42901	MIDD_T2	58	60	2	1.07	1.07	0	0	0	0	0	0	0	0	0
7/31/2024 18:04	52402	GRPA_T2	16	49	33	0.81	0.88	0.07	0	0	0	0	0	0	0	0
7/31/2024 18:04	52403	GRPA_T2	107	97	-10	1.75	1.8	0.05	0.01	0.03	0	0	0	0	0	0
7/31/2024 18:04	52401	GRPA_T2	128	114	-14	1.4	1.04	-0.36	0	0	0	0	0	0	0	0
7/31/2024 18:05	42903	MIDD_T2	6	5	-1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/31/2024 18:05	42902	MIDD_T2	29	30	1	3.14	2.5	-0.64	-0.65	-0.66	1	1	0	600	600	0
7/31/2024 18:05	42901	MIDD_T2	58	60	2	1.07	1.07	0	0	0	0	0	0	0	0	0
7/31/2024 18:07	61703	ELIZ_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
7/31/2024 18:07	61701	ELIZ_T1	2	4	2	0.65	0.7	0.05	1.5	1.56	0	0	0	0	0	0
7/31/2024 18:14	43202	MVIL_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
7/31/2024 18:14	43201	MVIL_T2	2	3	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
7/31/2024 18:17	61701	ELIZ_T1	3	4	1	0.77	1.2	0.43	1.5	1.56	0	0	0	0	0	0
7/31/2024 18:17	61703	ELIZ_T1	1	1	0	1.5	0.2	-1.3	0	0	0	0	0	0	0	0
7/31/2024 18:21	15603	NSTR_T2	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
7/31/2024 18:21	15601	NSTR_T2	3	3	0	0.23	1.27	1.04	0	0	0	0	0	0	0	0
7/31/2024 18:33	58402	MORO_T1	20	11	-9	0.97	0.61	-0.36	-0.07	-0.18	4	4	0	2850	2850	0
7/31/2024 18:33	58401	MORO_T1	1	3	2	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
7/31/2024 18:33	61703	ELIZ_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
7/31/2024 18:33	61701	ELIZ_T1	3	2	-1	0.5	1.3	0.8	1.56	1.62	0	0	0	0	0	0
7/31/2024 18:34	44701	MUNC_T2	2	3	1	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
7/31/2024 18:34	44702	MUNC_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 18:34	44703	MUNC_T2	6	10	4	0.47	0.56	0.09	1.36	1.35	0	0	0	0	0	0
7/31/2024 18:35	66203	SISP_T2	1	2	1	7	0	-7	0	0	0	0	0	0	0	0
7/31/2024 18:35	66202	SISP_T2	0	1	1	0	0	0	-0.27	-0.47	0	0	0	0	0	0
7/31/2024 18:36	66203	SISP_T2	1	2	1	7	0	-7	0	0	0	0	0	0	0	0
7/31/2024 18:36	66202	SISP_T2	0	1	1	0	0	0	-0.47	-0.34	0	0	0	0	0	0
7/31/2024 18:38	40301	TAMA_T3	1	4	3	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 18:38	40302	TAMA_T3	0	2	2	0	0.1	0.1	-2.17	-2.2	1	1	0	1200	1200	0
7/31/2024 18:38	43301	WATS_T2	1	0	-1	0.4	0	-0.4	0.18	0.15	1	1	0	900	900	0
7/31/2024 18:38	43304	WATS_T2	81	87	6	0.97	1.02	0.05	0	0	0	0	0	0	0	0
7/31/2024 18:43	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 18:51	64902	MILL_T2	0	0	0	0	0	0	-0.32	-0.29	1	1	0	900	900	0
7/31/2024 18:56	57002	WHHI_T2	0	0	0	0	0	0	-1.29	-1.34	1	1	0	1200	1200	0
7/31/2024 18:56	57001	WHHI_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 19:00	67602	WARW_T2	97	72	-25	0.6	0.58	-0.02	1.34	1.36	2	2	0	1500	1500	0
7/31/2024 19:01	67602	WARW_T2	97	72	-25	0.6	0.58	-0.02	1.34	1.36	2	2	0	1500	1500	0
7/31/2024 19:04	67602	WARW_T2	97	72	-25	0.6	0.58	-0.02	2.67	2.71	4	4	0	3000	3000	0
7/31/2024 19:05	52501	PROG_T1	1	1	0	0.1	0.2	0.1	-0.37	-0.41	1	1	0	300	300	0
7/31/2024 19:06	50201	HARR_T3	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
7/31/2024 19:06	50107	HARR_T3	1	1	0	7.5	7.4	-0.1	1.03	1.05	0	0	0	0	0	0
7/31/2024 19:06	51204	MTON_T2	0	0	0	0	0	0	0.04	0.04	1	1	0	600	600	0
7/31/2024 19:06	50105	HARR_T3	6	6	0	6.08	5.93	-0.15	0	0	0	0	0	0	0	0
7/31/2024 19:06	50103	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/31/2024 19:08	65603	QVIL_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
7/31/2024 19:08	65601	QVIL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
7/31/2024 19:08	65604	QVIL_T2	2	2	0	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/31/2024 19:10	49804	UNIV_T1	1	0	-1	0.7	0	-0.7	1.53	1.5	0	0	0	0	0	0
7/31/2024 19:10	49803	UNIV_T1	1	2	1	7.1	6.8	-0.3	0	0	0	0	0	0	0	0
7/31/2024 19:12	67602	WARW_T2	97	72	-25	0.6	0.58	-0.02	1.36	1.34	2	2	0	1500	1500	0
7/31/2024 19:20	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 19:23	59202	THOM_T1	2	5	3	0.85	0.1	-0.75	0	0	0	0	0	0	0	0
7/31/2024 19:23	59201	THOM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/31/2024 19:30	61704	ELIZ_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 19:30	61702	ELIZ_T2	1	0	-1	0.6	0	-0.6	-1.02	-1.05	2	2	0	1500	1500	0
7/31/2024 19:35	43202	MVIL_T2	0	0	0	0	0	0	-0.38	-0.36	0	0	0	0	0	0
7/31/2024 19:38	66901	SHIL_T2	55	0	-55	0.13	0	-0.13	-0.44	-0.54	1	1	0	1200	1200	0
7/31/2024 19:42	52204	DEVO_T2	6	6	0	1.32	1.32	0	0	0	0	0	0	0	0	0
7/31/2024 19:42	52202	DEVO_T2	1	2	1	0.9	0.2	-0.7	-3.17	-3.27	0	0	0	0	0	0
7/31/2024 19:48	22701	MINO_T1	0	0	0	0	0	0	-0.26	-0.19	1	1	0	600	600	0
7/31/2024 19:53	41903	REED_T1	0	0	0	0	0	0	0.68	0.66	1	1	0	1200	1200	0
7/31/2024 19:53	41901	REED_T1	11	15	4	0.59	0.51	-0.08	0	0	0	0	0	0	0	0
7/31/2024 19:53	41902	REED_T1	14	31	17	0.51	0.49	-0.02	0	0	0	0	0	0	0	0
7/31/2024 20:11	24902	WHHA_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
7/31/2024 20:38	42802	SELI_T1	0	0	0	0	0	0	-1.65	-1.69	1	1	0	900	900	0
7/31/2024 20:39	42802	SELI_T1	0	0	0	0	0	0	-1.65	-1.69	1	1	0	900	900	0
7/31/2024 20:40	42802	SELI_T1	0	0	0	0	0	0	-1.65	-1.69	1	1	0	900	900	0
7/31/2024 20:41	56501	ROCK_T2	158	43	-115	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
7/31/2024 20:41	56504	ROCK_T2	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
7/31/2024 20:46	22701	MINO_T1	0	0	0	0	0	0	-0.35	-0.24	1	1	0	600	600	0
7/31/2024 20:46	43101	SMIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
7/31/2024 20:46	43102	SMIL_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
7/31/2024 20:46	43106	SMIL_T2	0	0	0	0	0	0	-0.98	-1.07	2	2	0	2400	2400	0
7/31/2024 20:55	53501	EVIL_T2	1	2	1	1.1	1	-0.1	0	0	0	0	0	0	0	0
7/31/2024 20:55	28102	TWLA_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
7/31/2024 20:55	53502	EVIL_T2	0	0	0	0	0	0	0.06	0.01	2	2	0	1200	1200	0
7/31/2024 21:02	53902	HALI_T2	1	1	0	4.1	5.2	1.1	-0.49	-0.56	0	0	0	0	0	0
7/31/2024 21:02	53903	HALI_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
7/31/2024 21:05	61701	ELIZ_T1	1	1	0	3.1	3.6	0.5	1.24	1.16	0	0	0	0	0	0
7/31/2024 21:07	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 21:07	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/31/2024 21:07	65207	PRIN_T4	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
7/31/2024 21:10	45802	HEGI_T2	1	23	22	0.4	0.5	0.1	-0.31	0.28	2	1	-1	1200	300	-900
7/31/2024 21:13	63401	HONY_T1	0	0	0	0	0	0	0.09	0.12	1	1	0	600	600	0
7/31/2024 21:26	56802	BENV_T2	2	3	1	1.05	0.4	-0.65	-0.76	-0.8	0	0	0	0	0	0
7/31/2024 21:33	22803	HAUT_T2	28	23	-5	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
7/31/2024 21:33	22805	HAUT_T2	46	37	-9	0.83	0.52	-0.31	-1.05	-1.08	1	1	0	1200	1200	0
7/31/2024 21:34	46501	LOHA_T1	1	2	1	1.3	0	-1.3	0	0	0	0	0	0	0	0
7/31/2024 21:34	46506	LOHA_T1	0	2	2	0	0.2	0.2	-1.66	-1.7	2	2	0	2100	2100	0
7/31/2024 21:34	46504	LOHA_T1	2	2	0	0.6	0.85	0.25	0	0	0	0	0	0	0	0
7/31/2024 21:43	61102	BERK_T5	0	0	0	0	0	0	0.49	0.38	1	1	0	300	300	0
7/31/2024 22:07	61701	ELIZ_T1	1	1	0	3.2	3.7	0.5	1.23	1.16	0	0	0	0	0	0
7/31/2024 22:11	65601	QVIL_T2	0	21	21	0	0.2	0.2	0	0	0	0	0	0	0	0
7/31/2024 22:11	65603	QVIL_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
7/31/2024 22:11	65604	QVIL_T2	0	2	2	0	0.35	0.35	0.86	0.79	0	0	0	0	0	0
7/31/2024 22:12	16402	MOPO_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/31/2024 22:12	61303	EARL_T1	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
7/31/2024 22:13	57601	RUTH_T2	0	0	0	0	0	0	-0.73	-0.76	1	1	0	900	900	0
7/31/2024 22:14	64202	KINZ_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
7/31/2024 22:14	64201	KINZ_T1	1	1	0	0.8	1	0.2	-0.85	-0.29	4	3	-1	2100	1500	-600
7/31/2024 22:14	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
7/31/2024 22:15	50201	HARR_T3	1	0	0	9	9.2	0.2	0	0	0	0	0	0	0	0
7/31/2024 22:15	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
7/31/2024 22:15	15702	TANN_T2	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
7/31/2024 22:15	50105	HARR_T3	6	6	0	6.17	6.22	0.05	0	0	0	0	0	0	0	0
7/31/2024 22:15	50103	HARR_T3	0	2	2	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:15	50107	HARR_T3	1	1	0	7.6	7.5	-0.1	1.04	0.99	0	0	0	0	0	0
7/31/2024 22:15	45902	AUBU_T1	1	1	0	0.4	0.2	-0.2	-0.73	-0.64	1	1	0	600	600	0
7/31/2024 22:16	51304	WIND_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
7/31/2024 22:16	65001	NEFF_T2	0	0	0	0	0	0	-0.23	-0.33	1	1	0	1200	1200	0
7/31/2024 22:16	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/31/2024 22:16	64202	KINZ_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
7/31/2024 22:16	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
7/31/2024 22:16	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:16	64201	KINZ_T1	1	1	0	0.9	1	0.1	-1.7	-0.58	8	6	-2	4200	3000	-1200
7/31/2024 22:16	29402	BELT_T1	1	1	0	7.7	8.2	0.5	0	0	0	0	0	0	0	0
7/31/2024 22:17	15601	NSTR_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
7/31/2024 22:17	22905	HARW_T1	0	15	15	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:17	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:17	22903	HARW_T1	12	14	2	0.93	0.71	-0.22	0	0	0	0	0	0	0	0
7/31/2024 22:17	40101	HUNT_T2	2	7	5	0.15	0.45	0.3	-1.43	-1.49	0	0	0	0	0	0
7/31/2024 22:17	64302	LINC_T2	3	2	-1	2.07	2.85	0.78	1.55	1.48	0	0	0	0	0	0
7/31/2024 22:17	65601	QVIL_T2	1	21	20	0.1	0.2	0.1	0	0	0	0	0	0	0	0
7/31/2024 22:17	22901	HARW_T1	0	0	0	0	0	0	-0.25	-0.2	1	1	0	1200	1200	0
7/31/2024 22:17	20601	GRWO_T2	98	51	-47	0.59	0.32	-0.27	0.96	0.94	0	0	0	0	0	0
7/31/2024 22:17	21206	ECAR_T2	6	1	-5	1.47	8	6.53	0.64	0.57	0	0	0	0	0	0
7/31/2024 22:17	65603	QVIL_T2	0	4	4	0	0.23	0.23	0.56	0.52	0	0	0	0	0	0
7/31/2024 22:17	15603	NSTR_T2	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
7/31/2024 22:17	65604	QVIL_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
7/31/2024 22:18	64202	KINZ_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
7/31/2024 22:18	60201	ATGL_T2	0	2	2	0	0.2	0.2	0.9	0.81	1	1	0	300	300	0
7/31/2024 22:18	20601	GRWO_T2	98	51	-47	0.59	0.32	-0.27	0.96	0.94	0	0	0	0	0	0
7/31/2024 22:18	13503	MCMI_T2	27	21	-6	0.16	0.15	-0.01	-0.62	-0.66	0	0	0	0	0	0
7/31/2024 22:18	67603	WARW_T1	0	0	0	0	0	0	-0.24	-0.29	0	0	0	0	0	0
7/31/2024 22:18	61102	BERK_T5	0	0	0	0	0	0	0.34	0.1	2	2	0	600	600	0
7/31/2024 22:18	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
7/31/2024 22:18	48302	ORWI_T2	0	1	1	0	0.3	0.3	-0.3	-0.34	0	0	0	0	0	0
7/31/2024 22:18	64903	MILL_T2	15	28	13	0.23	0.29	0.06	0	0	0	0	0	0	0	0
7/31/2024 22:18	54201	PENN_T1	4	8	4	1.05	0.76	-0.29	-1.63	-1.65	0	0	0	0	0	0
7/31/2024 22:18	64902	MILL_T2	0	0	0	0	0	0	-1.15	-1.22	2	2	0	1800	1800	0
7/31/2024 22:18	67605	WARW_T1	3	0	0	1.2	0.77	-0.43	-0.91	-0.9	0	0	0	0	0	0
7/31/2024 22:18	64201	KINZ_T1	1	1	0	0.9	1	0.1	-0.85	-0.29	4	3	-1	2100	1500	-600
7/31/2024 22:18	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
7/31/2024 22:18	54203	PENN_T1	5	16	11	0.7	0.37	-0.33	0	0	0	0	0	0	0	0
7/31/2024 22:19	67602	WARW_T2	5	7	2	0.34	0.35	0.01	1.06	1.08	2	2	0	1500	1500	0
7/31/2024 22:19	44702	MUNC_T2	11	13	2	0.25	0.26	0.01	0	0	0	0	0	0	0	0
7/31/2024 22:19	47401	PENS_T1	0	0	0	0	0	0	0.32	0.26	0	0	0	0	0	0
7/31/2024 22:19	52002	LING_T2	0	0	0	0	0	0	-0.09	-0.11	1	1	0	900	900	0
7/31/2024 22:19	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
7/31/2024 22:19	57403	SPAN_T1	15	14	-1	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
7/31/2024 22:19	20401	ASHF_T2	2	2	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
7/31/2024 22:19	52004	LING_T2	2	2	0	5.35	5.7	0.35	0.1	0.05	0	0	0	0	0	0
7/31/2024 22:19	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
7/31/2024 22:19	64201	KINZ_T1	1	1	0	0.9	1	0.1	-0.85	-0.29	4	3	-1	2100	1500	-600
7/31/2024 22:19	44701	MUNC_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
7/31/2024 22:19	44703	MUNC_T2	0	0	0	0	0	0	1.05	1.06	0	0	0	0	0	0
7/31/2024 22:19	42301	MOWR_T2	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
7/31/2024 22:19	61101	ELAN_T1	1	0	0	0.9	0.9	0	0	0	0	0	0	0	0	0
7/31/2024 22:19	46203	DANV_T2	7	7	0	0.7	0.73	0.03	0	0	0	0	0	0	0	0
7/31/2024 22:19	64202	KINZ_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
7/31/2024 22:19	62102	ELAN_T1	0	0	0	0	0	0	0.71	0.81	0	0	0	0	0	0
7/31/2024 22:19	20403	ASHF_T2	0	0	0	0	0	0	0.83	0.76	0	0	0	0	0	0
7/31/2024 22:19	57401	SPAN_T1	0	0	0	0	0	0	-0.73	-0.75	1	1	0	600	600	0
7/31/2024 22:19	67702	WERN_T2	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
7/31/2024 22:19	20402	ASHF_T2	6	6	0	1.1	0.1	-1	0	0	0	0	0	0	0	0
7/31/2024 22:19	46206	DANV_T2	4	2	-2	0.83	1	0.17	1.76	1.75	2	2	0	2100	2100	0
7/31/2024 22:20	40601	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:20	57403	SPAN_T1	15	14	-1	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
7/31/2024 22:20	67605	WARW_T1	3	3	0	1.2	0.77	-0.43	-0.91	-0.9	0	0	0	0	0	0
7/31/2024 22:20	46203	DANV_T2	7	7	0	0.7	0.73	0.03	-1.09	-1.12	0	0	0	0	0	0
7/31/2024 22:20	56501	ROCK_T2	1	5	4	0.2	0.34	0.14	-3.43	-3.53	0	0	0	0	0	0
7/31/2024 22:20	45302	WBER_T2	0	0	0	0	0	0	1.33	1.31	0	0	0	0	0	0
7/31/2024 22:20	42802	SEU_T1	0	0	0	0	0	0	-1.92	-0.89	1	0	-1	900	0	-900
7/31/2024 22:20	60101	COCA_T1	0	0	0	0	0	0	-0.41	-0.46	1	1	0	1200	1200	0
7/31/2024 22:20	46206	DANV_T2	4	2	-2	0.83	1	0.17	0	0	0	0	0	0	0	0
7/31/2024 22:20	40602	PIGR_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
7/31/2024 22:20	40603	PIGR_T1	8	1	-7	0.33	0	-0.33	0.65	0.63	0	0	0	0	0	0
7/31/2024 22:20	20601	GRWO_T2	98	51	-47	0.59	0.32	-0.27	0.96	0.94	0	0	0	0	0	0
7/31/2024 22:20	64305	LINC_T1	1	1	0	0.7	0.9	0.2	0.02	-0.1	0	0	0	0	0	0
7/31/2024 22:20	64302	LINC_T2	3	2	-1	2.07	2.85	0.78	1.55	1.48	0	0	0	0	0	0
7/31/2024 22:20	29402	BELT_T1	1	1	0	7.7	8.2	0.5	0	0	0	0	0	0	0	0
7/31/2024 22:20	67602	WARW_T2	5	7	2	0.34	0.35	0.01	3.18	3.23	6	6	0	4500	4500	0
7/31/2024 22:20	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/31/2024 22:20	57401	SPAN_T1	0	0	0	0	0	0	-2.18	-2.24	3	3	0	1800	1800	0
7/31/2024 22:21	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
7/31/2024 22:21	66202	SISP_T2	0	0	0	0	0	0	-0.57	-0.83	0	0	0	0	0	0
7/31/2024 22:21	61102	BERK_T5	0	0	0	0	0	0	0.05	0.02	1	1	0	300	300	0
7/31/2024 22:21	65603	QVIL_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
7/31/2024 22:21	56501	ROCK_T2	1	5	4	0.2	0.34	0.14	-1.71	-1.77	0	0	0	0	0	0
7/31/2024 22:21	40101	HUNT_T2	2	7	5	0.15	0.45	0.3	-2.87	-2.98	0	0	0	0	0	0
7/31/2024 22:21	61703	ELIZ_T1	0	0	0	0	0	0	-2.57	-2.31	2	2	0	2100	2100	0
7/31/2024 22:21	65604	QVIL_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
7/31/2024 22:21	65601	QVIL_T2	1	21	20	0.1	0.2	0.1	-0.2	-0.27	1	1	0	900	900	0
7/31/2024 22:21	61701	ELIZ_T1	1	1	0	3.6	3.9	0.3	0	0	0	0	0	0	0	0
7/31/2024 22:21	61301	EARL_T1	0	0	0	0	0	0	-0.95	-0.98	2	2	0	1800	1800	0
7/31/2024 22:22	15702	TANN_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
7/31/2024 22:22	52004	LING_T2	2	2	0	5.35	5.7	0.35	0	0	0	0	0	0	0	0
7/31/2024 22:22	22901	HARW_T1	0	0	0	0	0	0	-0.2	-0.13	1	1	0	1200	1200	0
7/31/2024 22:22	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
7/31/2024 22:22	43105	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/31/2024 22:22	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.21	0	0	0	0	0	0
7/31/2024 22:22	61102	BERK_T5	0	0	0	0	0	0	0.05	0.02	1	1	0	300	300	0
7/31/2024 22:22	56504	ROCK_T2	0	0	0	0	0	0	0.95	0.8	0	0	0	0	0	0
7/31/2024 22:22	41202	KENM_T2	0	0	0	0	0	0	0.04	-0.02	0	0	0	0	0	0
7/31/2024 22:22	53501	EVIL_T2	1	2	1	0.2	0.4	0.2	-0.28	-0.3	2	2	0	1200	1200	0
7/31/2024 22:22	52002	LING_T2	0	0	0	0	0	0	-0.11	-0.19	1	1	0	900	900	0
7/31/2024 22:22	24902	WHHA_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
7/31/2024 22:22	47101	MARL_T1	26	39	13	1.03	1.33	0.3	-0.25	-0.35	0	0	0	0	0	0
7/31/2024 22:22	43103	SMIL_T2	1	0	-1	0.2	0	-0.2	-1.65	-1.67	0	0	0	0	0	0
7/31/2024 22:22	56501	ROCK_T2	1	5	4	0.2	0.34	0.14	-1.77	-1.78	0	0	0	0	0	0
7/31/2024 22:22	60502	NMAN_T2	0	0	0	0	0	0	0.44	0.39	0	0	0	0	0	0
7/31/2024 22:22	42701	AUGU_T1	3	3	0	1.3	0.85	-0.45	0	0	2	2	0	1800	1800	0
7/31/2024 22:22	46206	DANV_T2	4	2	-2	0.83	1	0.17	1.75	1.73	2	2	0	2100	2100	0
7/31/2024 22:22	67602	WARW_T2	5	7	2	0.34	0.35	0.01	2.16	2.16	4	4	0	3000	3000	0
7/31/2024 22:22	46203	DANV_T2	7	7	0	0.7	0.73	0.03	0	0	0	0	0	0	0	0
7/31/2024 22:22	55101	WERT_T1	0	0	0	0	0	0	-6.48	-6.25	12	12	0	9600	9600	0
7/31/2024 22:22	47001	HUGH_T2	3	3	0	8.23	7.4	-0.83	-0.65	-0.67	0	0	0	0	0	0
7/31/2024 22:22	66903	SHIL_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
7/31/2024 22:22	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:22	67103	SPRI_T1	0	0	0	0	0	0	-0.56	-0.53	0	0	0	0	0	0
7/31/2024 22:22	29402	BELT_T1	1	1	0	7.7	8.2	0.5	0	0	0	0	0	0	0	0
7/31/2024 22:22	66901	SHIL_T2	79	133	54	0.22	0.22	0	-0.83	-0.82	1	1	0	1200	1200	0
7/31/2024 22:22	22903	HARW_T1	12	14	2	0.93	0.71	-0.22	0	0	0	0	0	0	0	0
7/31/2024 22:22	22905	HARW_T1	0	15	15	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:22	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/31/2024 22:22	64802	MONE_T2	0	2	2	0	0.1	0.1	0.23	0.16	0	0	0	0	0	0
7/31/2024 22:22	66902	SHIL_T2	3	3	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
7/31/2024 22:22	45501	DERR_T2	3	3	0	1.8	1.67	-0.13	0.36	0.18	4	4	0	3600	3600	0
7/31/2024 22:22	64801	MONE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/31/2024 22:22	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
7/31/2024 22:22	43108	SMIL_T2	0	0	0	0	0	0	-0.9	-0.93	1	1	0	1200	1200	0
7/31/2024 22:23	61701	ELIZ_T1	1	1	0	3.6	3.9	0.3	1.16	1.09	0	0	0	0	0	0
7/31/2024 22:23	46602	LACR_T1	14	25	11	0.19	0.21	0.02	-0.73	-0.74	0	0	0	0	0	0
7/31/2024 22:23	43103	SMIL_T2	1	0	-1	0.2	0	-0.2	-3.31	-3.34	0	0	0	0	0	0
7/31/2024 22:23	40302	TAMA_T3	0	1	1	0	0.1	0.1	-1.09	-1.11	0	0	0	0	0	0
7/31/2024 22:23	61801	EELI_T2	0	0	0	0	0	0	-0.2	-0.22	1	1	0	600	600	0
7/31/2024 22:23	63305	GREE_T1	12	10	-2	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
7/31/2024 22:23	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:23	43105	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/31/2024 22:23	55001	NEWP_T1	0	0	0	0	0	0	-0.45	-0.45	1	1	0	600	600	0
7/31/2024 22:23	53601	DALM_T2	1	0	-1	0.2	0	-0.2	-0.93	-0.72	1	1	0	900	900	0
7/31/2024 22:23	22901	HARW_T1	0	0	0	0	0	0	-0.2	-0.13	1	1	0	1200	1200	0
7/31/2024 22:23	46001	BERW_T1	0	0	0	0	0	0	1.17	1.13	0	0	0	0	0	0
7/31/2024 22:23	40301	TAMA_T3	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/31/2024 22:23	63304	GREE_T1	1	0	-1	0.1	0	-0.1	-1.03	-1.08	0	0	0	0	0	0
7/31/2024 22:23	56501	ROCK_T2	1	5	4	0.2	0.34	0.14	-1.77	-1.78	0	0	0	0	0	0
7/31/2024 22:23	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
7/31/2024 22:23	22905	HARW_T1	0	15	15	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:23	57101	SPHI_T2	6	4	-2	0.82	0.2	-0.62	0	0	0	0	0	0	0	0
7/31/2024 22:23	57106	SPHI_T2	3	3	0	0.7	1.03	0.33	0	0	0	0	0	0	0	0
7/31/2024 22:23	51202	MTON_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
7/31/2024 22:23	61703	ELIZ_T1	0	0	0	0	0	0	-2.57	-2.31	2	2	0	2100	2100	0
7/31/2024 22:23	57104	SPHI_T2	0	0	0	0	0	0	-0.08	-0.14	0	0	0	0	0	0
7/31/2024 22:23	55002	NEWP_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/31/2024 22:23	67801	WLAN_T1	0	14	14	0	0	0	-0.69	0.51	0	0	0	0	0	0
7/31/2024 22:23	67804	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:23	53501	EVIL_T2	1	2	1	0.2	0.4	0.2	-0.28	-0.3	2	2	0	1200	1200	0
7/31/2024 22:23	56504	ROCK_T2	0	0	0	0	0	0	0.48	0.4	0	0	0	0	0	0
7/31/2024 22:23	61102	BERK_T5	0	0	0	0	0	0	0.05	0.02	1	1	0	300	300	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/31/2024 22:23	64201	KINZ_T1	1	1	0	0.9	1	0.1	-0.29	-0.31	3	3	0	1500	1500	0
7/31/2024 22:23	45501	DERR_T2	3	3	0	1.8	1.67	-0.13	0.18	0.09	2	2	0	1800	1800	0
7/31/2024 22:23	22903	HARW_T1	12	14	2	0.93	0.71	-0.22	0	0	0	0	0	0	0	0
7/31/2024 22:23	47001	HUGH_T2	3	3	0	8.23	7.4	-0.83	-0.65	-0.67	0	0	0	0	0	0
7/31/2024 22:23	64202	KINZ_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
7/31/2024 22:23	67803	WLAN_T1	0	0	0	0	0	0	-0.84	-0.9	0	0	0	0	0	0
7/31/2024 22:23	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:23	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
7/31/2024 22:24	55101	WERT_T1	0	0	0	0	0	0	-1.62	-1.56	3	3	0	2400	2400	0
7/31/2024 22:24	52403	GRPA_T2	24	23	-1	0.5	0.41	-0.09	-0.31	-0.31	0	0	0	0	0	0
7/31/2024 22:24	56504	ROCK_T2	0	0	0	0	0	0	0.48	0.4	0	0	0	0	0	0
7/31/2024 22:24	55002	NEWP_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/31/2024 22:24	55001	NEWP_T1	0	0	0	0	0	0	-0.9	-0.9	2	2	0	1200	1200	0
7/31/2024 22:24	47203	FAXO_T2	1	1	0	1	1	0	-1.64	-1.65	1	1	0	1200	1200	0
7/31/2024 22:24	20401	ASHF_T2	2	2	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
7/31/2024 22:24	67605	WARW_T1	3	3	0	1.2	0.77	-0.43	-0.9	-0.99	0	0	0	0	0	0
7/31/2024 22:24	57702	PAXT_T1	0	0	0	0	0	0	-0.26	-0.32	0	0	0	0	0	0
7/31/2024 22:24	47401	PENS_T1	0	0	0	0	0	0	0.26	0.31	0	0	0	0	0	0
7/31/2024 22:24	59101	WALK_T2	0	0	0	0	0	0	0.46	0.42	2	2	0	1200	1200	0
7/31/2024 22:24	52202	DEVO_T2	0	0	0	0	0	0	-1.96	-2	0	0	0	0	0	0
7/31/2024 22:24	67602	WARW_T2	5	7	2	0.34	0.35	0.01	3.23	3.25	6	6	0	4500	4500	0
7/31/2024 22:24	50701	SMEC_T1	0	2	2	0	0.1	0.1	-1.1	-1.07	1	1	0	1200	1200	0
7/31/2024 22:24	52204	DEVO_T2	4	3	-1	0.8	0.83	0.03	0	0	0	0	0	0	0	0
7/31/2024 22:24	20402	ASHF_T2	6	6	0	1.1	0.1	-1	0	0	0	0	0	0	0	0
7/31/2024 22:24	53501	EVIL_T2	1	2	1	0.2	0.4	0.2	-0.28	-0.3	2	2	0	1200	1200	0
7/31/2024 22:24	60101	COCA_T1	0	0	0	0	0	0	-0.46	-0.49	1	1	0	1200	1200	0
7/31/2024 22:24	43304	WATS_T2	13	19	6	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
7/31/2024 22:24	20403	ASHF_T2	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
7/31/2024 22:24	43301	WATS_T2	1	1	0	0.1	0.4	0.3	-0.19	-0.24	1	1	0	900	900	0
7/31/2024 22:24	61102	BERK_T5	0	0	0	0	0	0	0.1	0.03	2	2	0	600	600	0
7/31/2024 22:24	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.21	0	0	0	0	0	0
7/31/2024 22:24	58402	MORO_T1	0	0	0	0	0	0	0.43	0.34	2	2	0	1500	1500	0
7/31/2024 22:24	52402	GRPA_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/31/2024 22:24	52501	PROG_T1	0	4	4	0	0.13	0.13	-0.76	-0.8	1	1	0	300	300	0
7/31/2024 22:24	56501	ROCK_T2	1	5	4	0.2	0.34	0.14	-1.77	-1.78	0	0	0	0	0	0
7/31/2024 22:24	42701	AUGU_T1	3	3	0	1.3	0.85	-0.45	0	0	2	2	0	1800	1800	0
7/31/2024 22:24	52004	LING_T2	2	2	0	5.35	5.7	0.35	0.05	0.04	0	0	0	0	0	0
7/31/2024 22:24	47101	MARL_T1	26	39	13	1.03	1.33	0.3	-0.25	-0.35	0	0	0	0	0	0
7/31/2024 22:24	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:24	24901	WHHA_T1	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
7/31/2024 22:25	46301	ROHR_T1	0	93	93	0	0.24	0.24	0	0	0	0	0	0	0	0
7/31/2024 22:25	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:25	56504	ROCK_T2	0	0	0	0	0	0	0.48	0.4	0	0	0	0	0	0
7/31/2024 22:25	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
7/31/2024 22:25	52002	LING_T2	0	0	0	0	0	0	-0.11	-0.19	1	1	0	900	900	0
7/31/2024 22:25	61304	EARL_T1	0	0	0	0	0	0	-0.08	-0.09	1	1	0	600	600	0
7/31/2024 22:25	45502	DERR_T2	0	0	0	0	0	0	-0.51	-0.47	0	0	0	0	0	0
7/31/2024 22:25	57702	PAXT_T1	0	0	0	0	0	0	-0.51	-0.65	0	0	0	0	0	0
7/31/2024 22:25	26401	INOR_T1	1	1	0	8.2	8.8	0.6	0	0	0	0	0	0	0	0
7/31/2024 22:25	51003	NHAR_T1	8	6	-2	0.83	0.32	-0.51	-1.24	-1.15	1	1	0	1200	1200	0
7/31/2024 22:25	42302	MOWR_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
7/31/2024 22:25	46302	ROHR_T1	4	5	1	1.33	1.36	0.03	0.35	0.34	0	0	0	0	0	0
7/31/2024 22:25	51002	NHAR_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/31/2024 22:25	45501	DERR_T2	3	3	0	1.8	1.67	-0.13	0.18	0.09	2	2	0	1800	1800	0
7/31/2024 22:25	52004	LING_T2	2	2	0	5.35	5.7	0.35	0	0	0	0	0	0	0	0
7/31/2024 22:25	47401	PENS_T1	0	0	0	0	0	0	0.51	0.62	0	0	0	0	0	0
7/31/2024 22:25	26402	INOR_T1	0	0	0	0	0	0	-0.86	-0.91	0	0	0	0	0	0
7/31/2024 22:25	16402	MOPO_T1	0	0	0	0	0	0	0.32	0.26	0	0	0	0	0	0
7/31/2024 22:25	56501	ROCK_T2	1	5	4	0.2	0.34	0.14	-5.3	-5.34	0	0	0	0	0	0
7/31/2024 22:25	51004	NHAR_T1	1	1	0	7.2	6.6	-0.6	0	0	0	0	0	0	0	0
7/31/2024 22:26	64903	MILL_T2	15	28	13	0.23	0.29	0.06	0	0	0	0	0	0	0	0
7/31/2024 22:26	61303	EARL_T1	0	0	0	0	0	0	0.26	0.49	0	0	0	0	0	0
7/31/2024 22:26	46302	ROHR_T1	4	5	1	1.33	1.36	0.03	0	0	0	0	0	0	0	0
7/31/2024 22:26	52202	DEVO_T2	0	0	0	0	0	0	-3.92	-4	0	0	0	0	0	0
7/31/2024 22:26	46506	LOHA_T1	21	123	102	0.15	0.22	0.07	-1.77	-1.77	2	2	0	2100	2100	0
7/31/2024 22:26	20402	ASHF_T2	6	6	0	1.1	0.1	-1	0	0	0	0	0	0	0	0
7/31/2024 22:26	42802	SELI_T1	0	0	0	0	0	0	-0.89	-0.99	0	0	0	0	0	0
7/31/2024 22:26	42901	MIDD_T2	3	3	0	0.57	0.6	0.03	0	0	0	0	0	0	0	0
7/31/2024 22:26	56501	ROCK_T2	1	5	4	0.2	0.34	0.14	-3.53	-3.56	0	0	0	0	0	0
7/31/2024 22:26	53601	DALM_T2	1	0	-1	0.2	0	-0.2	-0.93	-0.72	1	1	0	900	900	0
7/31/2024 22:26	55001	NEWP_T1	0	0	0	0	0	0	-0.45	-0.45	1	1	0	600	600	0
7/31/2024 22:26	42301	MOWR_T2	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
7/31/2024 22:26	20403	ASHF_T2	0	0	0	0	0	0	1.53	1.45	0	0	0	0	0	0
7/31/2024 22:26	29402	BELT_T1	1	1	0	7.7	8.2	0.5	0	0	0	0	0	0	0	0
7/31/2024 22:26	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
7/31/2024 22:26	46504	LOHA_T1	2	1	-1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
7/31/2024 22:26	52204	DEVO_T2	4	3	-1	0.8	0.83	0.03	0	0	0	0	0	0	0	0
7/31/2024 22:26	64802	MONE_T2	0	2	2	0	0.1	0.1	0.23	0.16	0	0	0	0	0	0
7/31/2024 22:26	46101	MACI_T2	5	0	-5	0.1	0	-0.1	-0.5	0.72	1	0	-1	1200	0	-1200
7/31/2024 22:26	20401	ASHF_T2	2	2	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
7/31/2024 22:26	67602	WARW_T2	5	7	2	0.34	0.35	0.01	1.08	1.08	2	2	0	1500	1500	0
7/31/2024 22:26	55002	NEWP_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
7/31/2024 22:26	25503	MADI_T1	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
7/31/2024 22:26	15702	TANN_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
7/31/2024 22:26	42201	SHEN_T2	0	0	0	0	0	0	0.4	0.39	1	1	0	600	600	0
7/31/2024 22:26	46001	BERW_T1	0	0	0	0	0	0	1.17	1.13	0	0	0	0	0	0
7/31/2024 22:26	57002	WHHI_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
7/31/2024 22:26	58003	WCAR_T1	0	0	0	0	0	0	-0.88	-0.87	1	1	0	600	600	0
7/31/2024 22:26	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
7/31/2024 22:26	53501	EVIL_T2	1	2	1	0.2	0.4	0.2	-0.57	-0.59	4	4	0	2400	2400	0
7/31/2024 22:26	64801	MONE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
7/31/2024 22:26	64902	MILL_T2	0	0	0	0	0	0	-0.61	-0.66	1	1	0	900	900	0
7/31/2024 22:26	43202	MVIL_T2	0	23	23	0	0.17	0.17	-0.47	-0.51	0	0	0	0	0	0
7/31/2024 22:26	42903	MIDD_T2	1	0	-1	0.4	0	-0.4	0.37	0.35	0	0	0	0	0	0
7/31/2024 22:26	46501	LOHA_T1	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
7/31/2024 22:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
7/31/2024 22:26	46301	ROHR_T1	0	93	93	0	0.24	0.24	0.44	0.39	0	0	0	0	0	0
7/31/2024 22:26	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.21	0	0	0	0	0	0
7/31/2024 22:27	16505	STRO_T1	6	5	-1	1.97	0.28	-1.69	0	0	0	0	0	0	0	0
7/31/2024 22:27	53802	MBRG_T2	0	0	0	0	0	0	-0.29	0.92	0	0	0	0	0	0
7/31/2024 22:27	43101	SMIL_T2	0	0	0	0	0	0	-0.5	-0.55	0	0	0	0	0	0
7/31/2024 22:27	46102	MACI_T1	0	0	0	0	0	0	0.95	0.94	0	0	0	0	0	0
7/31/2024 22:27	52202	DEVO_T2	0	0	0	0	0	0	-1.96	-2	0	0	0	0	0	0
7/31/2024 22:27	58402	MORO_T1	0	0	0	0	0	0	0.43	0.34	2	2	0	1500	1500	0
7/31/2024 22:27	20401	ASHF_T2	2	2	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
7/31/2024 22:27	43103	SMIL_T2	1	0	-1	0.2	0	-0.2	-1.65	-1.67	0	0	0	0	0	0
7/31/2024 22:27	52501	PROG_T1	0	4	4	0	0.13	0.13	-0.76	-0.8	1	1	0	300	300	0
7/31/2024 22:27	43105	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/31/2024 22:27	43108	SMIL_T2	0	0	0	0	0	0	-1.8	-1.87	2	2	0	2400	2400	0
7/31/2024 22:27	42903	MIDD_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
7/31/2024 22:27	57403	SPAN_T1	15	14	-1	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
7/31/2024 22:27	52404	GRPA_T2	0	0	0	0	0	0	0.14	0.07	0	0	0	0	0	0
7/31/2024 22:27	52402	GRPA_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
7/31/2024 22:27	45501	DERR_T2	3	3	0	1.8	1.67	-0.13	0.36	0.18	4	4	0	3600	3600	0
7/31/2024 22:27	61701	ELIZ_T1	1	1	0	3.6	3.9	0.3	0	0	0	0	0	0	0	0
7/31/2024 22:27	42701	AUGU_T1	3	3	0	1.3	0.85	-0.45	0	0	4	4	0	3600	3600	0
7/31/2024 22:27	16504	STRO_T1	0	0	0	0	0	0	0.65	0.6	0	0	0	0	0	0
7/31/2024 22:27	61703	ELIZ_T1	0	0	0	0	0	0	-2.57	-2.31	2	2	0	2100	2100	0
7/31/2024 22:27	52403	GRPA_T2	24	23	-1	0.5	0.41	-0.09	0	0	0	0	0	0	0	0
7/31/2024 22:27	45702	LIND_T2	9	9	0	0.19	0.19	0	-1.4	-1.44	0	0	0	0	0	0
7/31/2024 22:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:27	67605	WARW_T1	3	3	0	1.2	0.77	-0.43	-0.9	-0.99	0	0	0	0	0	0
7/31/2024 22:27	59101	WALK_T2	0	0	0	0	0	0	0.46	0.42	2	2	0	1200	1200	0
7/31/2024 22:27	47401	PENS_T1	0	0	0	0	0	0	0.26	0.31	0	0	0	0	0	0
7/31/2024 22:27	40101	HUNT_T2	2	7	5	0.15	0.45	0.3	-1.49	-1.17	0	0	0	0	0	0
7/31/2024 22:27	42902	MIDD_T2	0	0	0	0	0	0	-0.66	-0.67	1	1	0	600	600	0
7/31/2024 22:27	48902	FOSP_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
7/31/2024 22:27	20403	ASHF_T2	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
7/31/2024 22:27	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
7/31/2024 22:27	52004	LING_T2	2	2	0	5.35	5.7	0.35	0.05	0.04	0	0	0	0	0	0
7/31/2024 22:27	41002	LAUR_T2	4	1	-3	0.33	1.3	0.97	-0.04	-0.04	0	0	0	0	0	0
7/31/2024 22:27	47101	MARL_T1	26	39	13	1.03	1.33	0.3	-0.25	-0.35	0	0	0	0	0	0
7/31/2024 22:27	42802	SELI_T1	0	0	0	0	0	0	-0.89	-0.99	0	0	0	0	0	0
7/31/2024 22:27	42901	MIDD_T2	3	3	0	0.57	0.6	0.03	0	0	0	0	0	0	0	0
7/31/2024 22:27	55101	WERT_T1	0	0	0	0	0	0	-1.62	-1.56	3	3	0	2400	2400	0
7/31/2024 22:27	44801	EDAN_T2	19	8	-11	0.27	0.13	-0.14	-1.3	-1.35	0	0	0	0	0	0
7/31/2024 22:27	52204	DEVO_T2	4	3	-1	0.8	0.83	0.03	0	0	0	0	0	0	0	0
7/31/2024 22:27	20402	ASHF_T2	6	6	0	1.1	0.1	-1	0	0	0	0	0	0	0	0
7/31/2024 22:27	57401	SPAN_T1	0	0	0	0	0	0	-1.5	-1.11	2	2	0	1200	1200	0
7/31/2024 22:28	52002	LING_T2	0	0	0	0	0	0	-0.11	-0.19	1	1	0	900	900	0
7/31/2024 22:28	56501	ROCK_T2	1	5	4	0.2	0.34	0.14	-3.53	-3.56	0	0	0	0	0	0
7/31/2024 22:28	45502	DERR_T2	0	0	0	0	0	0	-0.51	-0.47	0	0	0	0	0	0
7/31/2024 22:28	47401	PENS_T1	0	0	0	0	0	0	0.26	0.31	0	0	0	0	0	0
7/31/2024 22:28	21206	ECAR_T2	6	1	-5	1.47	8	6.53	0.57	0.6	0	0	0	0	0	0
7/31/2024 22:28	44301	BEAV_T2	0	0	0	0	0	0	-0.1	-0.05	1	1	0	600	600	0
7/31/2024 22:28	43202	MVIL_T2	0	23	23	0	0.17	0.17	-0.47	-0.51	0	0	0	0	0	0
7/31/2024 22:28	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
7/31/2024 22:28	52004	LING_T2	2	2	0	5.35	5.7	0.35	0	0	0	0	0	0	0	0
7/31/2024 22:28	43105	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/31/2024 22:28	45501	DERR_T2	3	3	0	1.8	1.67	-0.13	0.18	0.09	2	2	0	1800	1800	0
7/31/2024 22:28	43108	SMIL_T2	0	0	0	0	0	0	-0.9	-0.93	1	1	0	1200	1200	0
7/31/2024 22:28	51202	MTON_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
7/31/2024 22:28	23001	SAUL_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
7/31/2024 22:28	40101	HUNT_T2	2	7	5	0.15	0.45	0.3	0	0	0	0	0	0	0	0
7/31/2024 22:28	20601	GRWO_T2	98	51	-47	0.59	0.32	-0.27	0	0	0	0	0	0	0	0
7/31/2024 22:28	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:28	41902	REED_T1	7	8	1	0.56	0.37	-0.19	0.47	0.53	1	1	0	900	900	0
7/31/2024 22:28	42201	SHEN_T2	0	0	0	0	0	0	0.4	0.39	1	1	0	600	600	0
7/31/2024 22:28	46803	HEPB_T2	29	41	12	0.28	0.31	0.03	0.72	0.73	0	0	0	0	0	0
7/31/2024 22:28	45802	HEGI_T2	13	45	32	0.42	1.15	0.73	-0.4	0.05	2	1	-1	1200	900	-300
7/31/2024 22:28	51201	MTON_T1	0	0	0	0	0	0	0.76	0.72	0	0	0	0	0	0
7/31/2024 22:28	46801	HEPB_T2	42	47	5	0.52	0.55	0.03	0	0	0	0	0	0	0	0
7/31/2024 22:28	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
7/31/2024 22:28	67605	WARW_T1	3	3	0	1.2	0.77	-0.43	-0.9	-0.99	0	0	0	0	0	0
7/31/2024 22:28	58401	MORO_T1	0	0	0	0	0	0	-0.35	-0.36	1	1	0	600	600	0
7/31/2024 22:28	43103	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/31/2024 22:28	42701	AUGU_T1	3	3	0	1.3	0.85	-0.45	0	0	2	2	0	1800	1800	0
7/31/2024 22:28	47101	MARL_T1	26	39	13	1.03	1.33	0.3	-0.25	-0.35	0	0	0	0	0	0
7/31/2024 22:28	41901	REED_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/31/2024 22:28	42503	ALTA_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
7/31/2024 22:28	44801	EDAN_T2	19	8	-11	0.27	0.13	-0.14	-2.59	-2.71	0	0	0	0	0	0
7/31/2024 22:28	20603	GRWO_T2	0	0	0	0	0	0	-0.38	-0.38	1	1	0	900	900	0
7/31/2024 22:29	61402	SLIT_T1	1	1	0	4.8	4.3	-0.5	0	0	0	0	0	0	0	0
7/31/2024 22:29	42802	SELI_T1	0	0	0	0	0	0	-0.89	-0.99	0	0	0	0	0	0
7/31/2024 22:29	43105	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/31/2024 22:29	62101	ELAN_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
7/31/2024 22:29	56501	ROCK_T2	1	5	4	0.2	0.34	0.14	-1.77	-1.78	0	0	0	0	0	0
7/31/2024 22:29	44301	BEAV_T2	0	0	0	0	0	0	-0.1	-0.05	1	1	0	600	600	0
7/31/2024 22:29	53502	EVIL_T2	0	0	0	0	0	0	-0.08	-0.01	4	4	0	2400	2400	0
7/31/2024 22:29	60201	ATGL_T2	0	2	2	0	0.2	0.2	0.81	1.21	1	0	-1	300	0	-300
7/31/2024 22:29	61703	ELIZ_T1	0	0	0	0	0	0	-2.57	-2.31	2	2	0	2100	2100	0
7/31/2024 22:29	13503	MCMI_T2	27	21	-6	0.16	0.15	-0.01	-0.66	-0.66	0	0	0	0	0	0
7/31/2024 22:29	52403	GRPA_T2	24	23	-1	0.5	0.41	-0.09	0	0	0	0	0	0	0	0
7/31/2024 22:29	41902	REED_T1	7	8	1	0.56	0.37	-0.19	0.47	0.53	1	1	0	900	900	0
7/31/2024 22:29	53501	EVIL_T2	1	2	1	0.2	0.4	0.2	-0.28	-0.3	2	2	0	1200	1200	0
7/31/2024 22:29	46203	DANV_T2	7	7	0	0.7	0.73	0.03	-1.12	-0.25	0	0	0	0	0	0
7/31/2024 22:29	41901	REED_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
7/31/2024 22:29	25603	ARRO_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
7/31/2024 22:29	43103	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
7/31/2024 22:29	62102	ELAN_T1	0	0	0	0	0	0	0.81	0.7	0	0	0	0	0	0
7/31/2024 22:29	58001	WCAR_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
7/31/2024 22:29	23401	HONE_T2	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
7/31/2024 22:29	43104	SMIL_T2	0	0	0	0	0	0	-0.44	-0.45	1	1	0	300	300	0
7/31/2024 22:29	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
7/31/2024 22:29	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:29	52401	GRPA_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
7/31/2024 22:29	61701	ELIZ_T1	1	1	0	3.6	3.9	0.3	0	0	0	0	0	0	0	0
7/31/2024 22:29	52004	LING_T2	2	2	0	5.35	5.7	0.35	0	0	0	0	0	0	0	0
7/31/2024 22:29	46206	DANV_T2	4	2	-2	0.83	1	0.17	0	0	0	0	0	0	0	0
7/31/2024 22:29	52202	DEVO_T2	0	0	0	0	0	0	-1.96	-2	0	0	0	0	0	0
7/31/2024 22:29	56504	ROCK_T2	0	0	0	0	0	0	0.48	0.4	0	0	0	0	0	0
7/31/2024 22:29	52204	DEVO_T2	4	3	-1	0.8	0.83	0.03	0	0	0	0	0	0	0	0
7/31/2024 22:29	52402	GRPA_T2	2	0	-2	0.45	0	-0.45	-0.54	-0.56	0	0	0	0	0	0
7/31/2024 22:29	52002	LING_T2	0	0	0	0	0	0	-0.11	-0.19	1	1	0	900	900	0
7/31/2024 22:30	46506	LOHA_T1	123	10	-113	0.22	0.16	-0.06	-1.77	-1.77	2	2	0	2100	2100	0
7/31/2024 22:30	46504	LOHA_T1	1	2	1	0.3	1.05	0.75	0	0	0	0	0	0	0	0
7/31/2024 22:30	51204	MTON_T2	0	0	0	0	0	0	-0.14	-0.16	1	1	0	600	600	0
7/31/2024 22:30	43103	SMIL_T2	0	2	2	0	0.15	0.15	-1.65	-1.67	0	0	0	0	0	0
7/31/2024 22:30	67602	WARW_T2	6	3	-3	0.5	0.2	-0.3	1.08	1.08	2	2	0	1500	1500	0
7/31/2024 22:30	40101	HUNT_T2	3	6	3	0.67	0.2	-0.47	-1.49	-1.17	0	0	0	0	0	0
7/31/2024 22:30	64204	KINZ_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
7/31/2024 22:30	64203	KINZ_T1	0	0	0	0	0	0	0.09	0.03	1	1	0	600	600	0
7/31/2024 22:30	47001	HUGH_T2	3	3	0	7.4	7.37	-0.03	-0.65	-0.67	0	0	0	0	0	0
7/31/2024 22:30	42802	SELI_T1	0	0	0	0	0	0	-2.67	-2.98	0	0	0	0	0	0
7/31/2024 22:30	52202	DEVO_T2	0	4	4	0	0	0	-1.96	-2	0	0	0	0	0	0
7/31/2024 22:30	45501	DERR_T2	3	3	0	1.87	2	0.13	0.36	0.18	4	4	0	3600	3600	0
7/31/2024 22:30	42903	MIDD_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
7/31/2024 22:30	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
7/31/2024 22:30	49804	UNIV_T1	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
7/31/2024 22:30	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:30	42302	MOWR_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
7/31/2024 22:30	64201	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
7/31/2024 22:30	58401	MORO_T1	0	0	0	0	0	0	-0.35	-0.36	1	1	0	600	600	0
7/31/2024 22:30	52002	LING_T2	0	0	0	0	0	0	-0.11	-0.19	1	1	0	900	900	0
7/31/2024 22:30	46206	DANV_T2	2	2	0	1.25	1	-0.25	0	0	0	0	0	0	0	0
7/31/2024 22:30	42901	MIDD_T2	3	2	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/31/2024 22:30	52004	LING_T2	2	2	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
7/31/2024 22:30	45402	WBLO_T2	12	26	14	0.23	0.26	0.03	-1.1	-1.13	1	1	0	900	900	0
7/31/2024 22:30	52204	DEVO_T2	3	4	1	1.3	0.77	-0.53	0	0	0	0	0	0	0	0
7/31/2024 22:30	64202	KINZ_T1	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
7/31/2024 22:30	60101	COCA_T1	0	0	0	0	0	0	-0.46	-0.49	1	1	0	1200	1200	0
7/31/2024 22:30	49803	UNIV_T1	1	1	0	5.8	5.6	-0.2	-1.84	-1.84	0	0	0	0	0	0
7/31/2024 22:30	46203	DANV_T2	7	0	-7	0.73	0	-0.73	-1.12	-0.25	0	0	0	0	0	0
7/31/2024 22:31	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/31/2024 22:31	58705	ROSE_T2	5	5	0	0.8	1.12	0.32	0	0	0	0	0	0	0	0
7/31/2024 22:31	41901	REED_T1	1	4	3	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
7/31/2024 22:31	58701	ROSE_T2	0	0	0	0	0	0	-0.43	-0.45	1	1	0	600	600	0
7/31/2024 22:31	47101	MARL_T1	39	25	-14	1.23	1.37	0.14	-0.25	-0.35	0	0	0	0	0	0
7/31/2024 22:31	43103	SMIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
7/31/2024 22:31	46801	HEPB_T2	47	7	-40	0.55	0.47	-0.08	0.13	0.08	0	0	0	0	0	0
7/31/2024 22:31	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:31	47401	PENS_T1	0	0	0	0	0	0	0.26	0.31	0	0	0	0	0	0
7/31/2024 22:31	63305	GREE_T1	10	2	-8	0.35	0	-0.35	0	0	0	0	0	0	0	0
7/31/2024 22:31	41902	REED_T1	8	3	-5	0.89	0	-0.89	0.47	0.53	1	1	0	900	900	0
7/31/2024 22:31	46301	ROHR_T1	0	93	93	0	0.24	0.24	0	0	0	0	0	0	0	0
7/31/2024 22:31	46203	DANV_T2	7	0	-7	0.73	0	-0.73	-1.12	-0.25	0	0	0	0	0	0
7/31/2024 22:31	42902	MIDD_T2	0	0	0	0	0	0	-0.66	-0.67	1	1	0	600	600	0
7/31/2024 22:31	65902	SAKR_T2	0	0	0	0	0	0	-0.9	-0.96	0	0	0	0	0	0
7/31/2024 22:31	46206	DANV_T2	2	2	0	1.25	1	-0.25	0	0	0	0	0	0	0	0
7/31/2024 22:31	42701	AUGU_T1	3	2	-1	1.17	0.2	-0.97	0	0	2	2	0	1800	1800	0
7/31/2024 22:31	27603	PIRI_T2	1	1	0	2.7	1	-1.7	0	0	0	0	0	0	0	0
7/31/2024 22:31	46302	ROHR_T1	4	5	1	1.28	1.42	0.14	0.35	0.34	0	0	0	0	0	0
7/31/2024 22:31	57702	PAXT_T1	0	0	0	0	0	0	-0.26	-0.32	0	0	0	0	0	0
7/31/2024 22:31	54701	NEBL_T1	1	1	0	0.7	0.6	-0.1	0	0	1	1	0	600	600	0
7/31/2024 22:31	45501	DERR_T2	3	3	0	1.87	2	0.13	0.18	0.09	2	2	0	1800	1800	0
7/31/2024 22:31	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
7/31/2024 22:31	42901	MIDD_T2	3	2	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
7/31/2024 22:31	43104	SMIL_T2	0	0	0	0	0	0	-0.89	-0.89	2	2	0	600	600	0
7/31/2024 22:31	63304	GREE_T1	0	0	0	0	0	0	-1.03	-1.08	0	0	0	0	0	0
7/31/2024 22:31	52402	GRPA_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
7/31/2024 22:31	52403	GRPA_T2	18	20	2	0.42	0.5	0.08	0	0	0	0	0	0	0	0
7/31/2024 22:31	27605	PIRI_T2	14	16	2	0.62	0.59	-0.03	0.03	-0.01	1	1	0	900	900	0
7/31/2024 22:31	58706	ROSE_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
7/31/2024 22:31	43202	MVIL_T2	0	23	23	0	0.17	0.17	-0.47	-0.51	0	0	0	0	0	0
7/31/2024 22:31	46803	HEPB_T2	41	1	-40	0.31	0.1	-0.21	0	0	0	0	0	0	0	0
7/31/2024 22:31	56501	ROCK_T2	2	5	3	0.1	0.34	0.24	0	0	0	0	0	0	0	0
7/31/2024 22:31	65901	SAKR_T2	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
7/31/2024 22:31	53501	EVIL_T2	2	1	-1	0.25	0.6	0.35	-0.28	-0.3	2	2	0	1200	1200	0
7/31/2024 22:31	56504	ROCK_T2	0	0	0	0	0	0	0.48	0.4	0	0	0	0	0	0
7/31/2024 22:32	48901	FOSP_T2	0	0	0	0	0	0	-0.3	-0.32	1	1	0	600	600	0
7/31/2024 22:32	57304	MOAL_T2	0	1	1	0	0	0	-0.32	-0.36	0	0	0	0	0	0
7/31/2024 22:32	53601	DALM_T2	0	0	0	0	0	0	-0.93	-0.72	1	1	0	900	900	0
7/31/2024 22:32	55002	NEWP_T1	1	2	1	0.2	0.65	0.45	0	0	0	0	0	0	0	0
7/31/2024 22:32	45501	DERR_T2	3	3	0	1.87	2	0.13	0.18	0.09	2	2	0	1800	1800	0
7/31/2024 22:32	56501	ROCK_T2	2	5	3	0.1	0.34	0.24	-3.53	-3.56	0	0	0	0	0	0
7/31/2024 22:32	57303	MOAL_T2	1	1	0	7.8	7.4	-0.4	0	0	0	0	0	0	0	0
7/31/2024 22:32	46206	DANV_T2	2	2	0	1.25	1	-0.25	0	0	0	0	0	0	0	0
7/31/2024 22:32	42302	MOWR_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
7/31/2024 22:32	55001	NEWP_T1	0	0	0	0	0	0	-0.45	-0.45	1	1	0	600	600	0
7/31/2024 22:32	45302	WBER_T2	0	0	0	0	0	0	1.31	1.33	0	0	0	0	0	0
7/31/2024 22:32	57401	SPAN_T1	0	0	0	0	0	0	-0.75	-0.55	1	1	0	600	600	0
7/31/2024 22:32	46203	DANV_T2	7	0	-7	0.73	0	-0.73	-1.12	-0.25	0	0	0	0	0	0
7/31/2024 22:32	53501	EVIL_T2	2	1	-1	0.25	0.6	0.35	-0.28	-0.3	2	2	0	1200	1200	0
7/31/2024 22:32	57403	SPAN_T1	13	22	9	0.31	0.31	0	0	0	0	0	0	0	0	0
7/31/2024 22:32	66703	STRA_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
7/31/2024 22:33	67605	WARW_T1	3	3	0	0.77	1.17	0.4	-0.9	-0.99	0	0	0	0	0	0
7/31/2024 22:33	45501	DERR_T2	3	3	0	1.87	2	0.13	0.18	0.09	2	2	0	1800	1800	0
7/31/2024 22:33	47101	MARL_T1	39	25	-14	1.23	1.37	0.14	-0.25	-0.35	0	0	0	0	0	0
7/31/2024 22:33	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:33	40101	HUNT_T2	3	6	3	0.67	0.2	-0.47	-1.49	-1.17	0	0	0	0	0	0
7/31/2024 22:33	55001	NEWP_T1	0	0	0	0	0	0	-0.45	-0.45	1	1	0	600	600	0
7/31/2024 22:33	53602	DALM_T2	0	0	0	0	0	0	-0.43	-0.44	1	1	0	600	600	0
7/31/2024 22:33	55002	NEWP_T1	1	2	1	0.2	0.65	0.45	0	0	0	0	0	0	0	0
7/31/2024 22:33	56501	ROCK_T2	2	5	3	0.1	0.34	0.24	-1.77	-1.78	0	0	0	0	0	0
7/31/2024 22:33	42301	MOWR_T2	0	0	0	0	0	0	-0.2	-0.24	0	0	0	0	0	0
7/31/2024 22:33	42802	SELI_T1	0	0	0	0	0	0	-1.78	-1.99	0	0	0	0	0	0
7/31/2024 22:33	42701	AUGU_T1	3	2	-1	1.17	0.2	-0.97	0	0	0	0	0	0	0	0
7/31/2024 22:34	44301	BEAV_T2	0	0	0	0	0	0	-0.1	-0.05	1	1	0	600	600	0
7/31/2024 22:34	52002	LING_T2	0	0	0	0	0	0	-0.11	-0.19	1	1	0	900	900	0
7/31/2024 22:34	58401	MORO_T1	0	0	0	0	0	0	-0.35	-0.36	1	1	0	600	600	0
7/31/2024 22:34	61702	ELIZ_T2	0	0	0	0	0	0	-1.4	-1.4	2	2	0	1500	1500	0
7/31/2024 22:34	41002	LAUR_T2	1	1	0	1.1	1.6	0.5	-0.04	-0.04	0	0	0	0	0	0
7/31/2024 22:34	45501	DERR_T2	3	3	0	1.87	2	0.13	0.18	0.09	2	2	0	1800	1800	0
7/31/2024 22:34	52004	LING_T2	2	2	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
7/31/2024 22:35	58401	MORO_T1	0	0	0	0	0	0	-0.35	-0.36	1	1	0	600	600	0
7/31/2024 22:35	64904	MILL_T1	0	0	0	0	0	0	0.5	0.45	0	0	0	0	0	0
7/31/2024 22:35	49803	UNIV_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
7/31/2024 22:35	49804	UNIV_T1	1	3	2	0.1	0.17	0.07	1.09	1.05	0	0	0	0	0	0
7/31/2024 22:36	41903	REED_T1	0	0	0	0	0	0	0.32	0.3	1	1	0	1200	1200	0
7/31/2024 22:36	42802	SELI_T1	0	0	0	0	0	0	-0.89	-0.99	0	0	0	0	0	0
7/31/2024 22:36	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
7/31/2024 22:36	41901	REED_T1	1	4	3	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
7/31/2024 22:36	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:36	41902	REED_T1	8	3	-5	0.89	0	-0.89	0.47	0.53	1	1	0	900	900	0
7/31/2024 22:36	52403	GRPA_T2	18	20	2	0.42	0.5	0.08	-0.31	-0.31	0	0	0	0	0	0
7/31/2024 22:36	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2024 22:37	47401	PENS_T1	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
7/31/2024 22:37	45501	DERR_T2	3	3	0	1.87	2	0.13	0.09	0.26	2	2	0	1800	1800	0
7/31/2024 22:38	45501	DERR_T2	3	3	0	1.87	2	0.13	0.09	0.26	2	2	0	1800	1800	0
7/31/2024 22:48	57403	SPAN_T1	7	22	15	0.16	0.31	0.15	0	0	0	0	0	0	0	0
7/31/2024 22:48	57401	SPAN_T1	0	0	0	0	0	0	-0.55	-0.56	1	1	0	600	600	0
7/31/2024 23:03	40101	HUNT_T2	2	0	-2	0.5	0	-0.5	-1.22	-1.24	0	0	0	0	0	0
7/31/2024 23:48	57401	SPAN_T1	0	0	0	0	0	0	-0.73	-0.66	1	1	0	600	600	0
8/1/2024 0:12	43103	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/1/2024 0:12	43104	SMIL_T2	0	0	0	0	0	0	-0.56	-0.57	1	1	0	300	300	0
8/1/2024 0:42	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/1/2024 1:06	67602	WARW_T2	0	0	0	0	0	0	0.91	0.9	2	2	0	1500	1500	0
8/1/2024 3:23	65901	SAKR_T2	1	1	0	8.3	8.2	-0.1	-0.72	-0.77	1	1	0	900	900	0
8/1/2024 4:43	63201	MGTN_T2	0	1	1	0	0	0	1.47	1.49	1	1	0	600	600	0
8/1/2024 7:06	44902	SCOT_T2	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
8/1/2024 7:20	43202	MVIL_T2	1	1	0	0.1	0.1	0	-0.46	-0.46	0	0	0	0	0	0
8/1/2024 7:28	52404	GRPA_T2	0	0	0	0	0	0	0.66	0.79	0	0	0	0	0	0
8/1/2024 7:28	52403	GRPA_T2	2	3	1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
8/1/2024 7:34	65603	QVIL_T2	0	0	0	0	0	0	0.73	0.84	0	0	0	0	0	0
8/1/2024 7:38	55101	WERT_T1	0	0	0	0	0	0	-5.66	-5.86	12	12	0	9900	9900	0
8/1/2024 7:39	67804	WLAN_T1	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
8/1/2024 7:39	55101	WERT_T1	0	0	0	0	0	0	-3.77	-3.91	8	8	0	6600	6600	0
8/1/2024 7:40	55101	WERT_T1	0	0	0	0	0	0	-1.89	-1.95	4	4	0	3300	3300	0
8/1/2024 7:40	67804	WLAN_T1	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
8/1/2024 7:40	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 7:43	52403	GRPA_T2	3	5	2	0.23	0.4	0.17	-0.37	-0.33	0	0	0	0	0	0
8/1/2024 7:43	53601	DALM_T2	1	1	0	1.2	0.9	-0.3	-0.42	-0.41	1	1	0	900	900	0
8/1/2024 7:43	52404	GRPA_T2	0	0	0	0	0	0	0.79	0.71	0	0	0	0	0	0
8/1/2024 7:44	46101	MACI_T2	0	0	0	0	0	0	-0.84	0.43	2	1	-1	2400	1200	-1200
8/1/2024 7:48	64101	REFR_T1	0	0	0	0	0	0	0.34	0.38	0	0	0	0	0	0
8/1/2024 7:50	46101	MACI_T2	0	0	0	0	0	0	-0.84	0.43	2	1	-1	2400	1200	-1200
8/1/2024 7:50	15601	NSTR_T2	3	2	-1	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
8/1/2024 7:50	15603	NSTR_T2	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
8/1/2024 7:58	64204	KINZ_T1	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
8/1/2024 7:58	64203	KINZ_T1	0	0	0	0	0	0	0.4	0.43	3	3	0	2100	2100	0
8/1/2024 7:58	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/1/2024 7:58	64201	KINZ_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
8/1/2024 7:59	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/1/2024 7:59	64204	KINZ_T1	1	0	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
8/1/2024 7:59	64201	KINZ_T1	1	1	0	0.6	0.2	-0.4	-0.59	-0.55	4	4	0	2100	2100	0
8/1/2024 8:00	50502	MECH_T1	1	1	0	0.7	1.4	0.7	0	0	0	0	0	0	0	0
8/1/2024 8:00	63804	HEMP_T1	1	1	0	7.4	7.6	0.2	-0.06	0.02	0	0	0	0	0	0
8/1/2024 8:00	50501	MECH_T1	4	4	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
8/1/2024 8:01	50502	MECH_T1	1	1	0	0.7	1.4	0.7	0	0	0	0	0	0	0	0
8/1/2024 8:01	50501	MECH_T1	4	4	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
8/1/2024 8:01	50505	MECH_T1	0	0	0	0	0	0	-1.83	-1.84	0	0	0	0	0	0
8/1/2024 8:02	64203	KINZ_T1	0	0	0	0	0	0	0.4	0.43	3	3	0	2100	2100

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/1/2024 9:45	52004	LING_T2	2	2	0	5.15	4.8	-0.35	0	0	0	0	0	0	0	0
8/1/2024 9:45	47101	MARL_T1	12	13	1	0.83	0.34	-0.49	-0.22	-0.74	0	1	1	0	600	600
8/1/2024 9:45	52002	LING_T2	0	1	1	0	0	0	0.66	0.69	0	0	0	0	0	0
8/1/2024 9:47	52002	LING_T2	0	1	1	0	0	0	0.66	0.69	0	0	0	0	0	0
8/1/2024 9:47	16402	MOPO_T1	1	0	-1	0.1	0	-0.1	0.37	0.35	0	0	0	0	0	0
8/1/2024 9:47	52004	LING_T2	2	2	0	5.15	4.8	-0.35	0	0	0	0	0	0	0	0
8/1/2024 9:48	47101	MARL_T1	12	13	1	0.83	0.34	-0.49	-0.22	-0.74	0	1	1	0	600	600
8/1/2024 9:49	60502	NMAN_T2	0	0	0	0	0	0	0.75	0.78	0	0	0	0	0	0
8/1/2024 9:50	55002	NEWP_T1	4	4	0	0.78	0.55	-0.23	0	0	0	0	0	0	0	0
8/1/2024 9:50	55001	NEWP_T1	0	0	0	0	0	0	-0.36	-0.29	1	1	0	600	600	0
8/1/2024 9:51	16402	MOPO_T1	1	0	-1	0.1	0	-0.1	0.35	0.39	0	0	0	0	0	0
8/1/2024 9:56	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/1/2024 9:57	67605	WARW_T1	0	0	0	0	0	0	-0.87	-0.79	0	0	0	0	0	0
8/1/2024 9:59	22901	HARW_T1	0	5	5	0	0.12	0.12	0.05	0.13	1	1	0	1200	1200	0
8/1/2024 10:00	57601	RUTH_T2	0	0	0	0	0	0	-0.32	-0.35	1	1	0	900	900	0
8/1/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	0.78	0.71	0	0	0	0	0	0
8/1/2024 10:00	41903	REED_T1	4	4	0	0.73	0.9	0.17	0	0	0	0	0	0	0	0
8/1/2024 10:00	63402	HONY_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/1/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
8/1/2024 10:00	50501	MECH_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/1/2024 10:00	64204	KINZ_T1	2	1	-1	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/1/2024 10:00	55101	WERT_T1	0	0	0	0	0	0	-1.9	-1.69	4	4	0	3300	3300	0
8/1/2024 10:00	40504	CRES_T1	5	13	8	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
8/1/2024 10:00	40505	CRES_T1	4	4	0	1.43	0.68	-0.75	0.78	0.83	0	0	0	0	0	0
8/1/2024 10:00	64201	KINZ_T1	0	0	0	0	0	0	-0.94	-0.64	8	8	0	4200	4200	0
8/1/2024 10:00	50502	MECH_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
8/1/2024 10:00	13503	MCMI_T2	2	3	1	0.55	0.63	0.08	-2.13	-2.04	0	0	0	0	0	0
8/1/2024 10:00	40503	CRES_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
8/1/2024 10:00	63403	HONY_T2	0	0	0	0	0	0	-0.24	-0.18	1	1	0	600	600	0
8/1/2024 10:00	56504	ROCK_T2	0	1	1	0	0.1	0.1	-0.59	-0.53	0	0	0	0	0	0
8/1/2024 10:00	41902	REED_T1	1	11	10	1.5	0.2	-1.3	0.58	0.61	1	1	0	900	900	0
8/1/2024 10:00	51201	MTON_T1	0	0	0	0	0	0	0.54	0.62	0	0	0	0	0	0
8/1/2024 10:00	56501	ROCK_T2	1	4	3	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
8/1/2024 10:00	64203	KINZ_T1	2	2	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
8/1/2024 10:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 10:08	55101	WERT_T1	0	0	0	0	0	0	-1.69	-1.6	4	4	0	3300	3300	0
8/1/2024 10:09	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 10:09	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	1	1	0	900	900	0
8/1/2024 10:09	41902	REED_T1	1	11	10	1.5	0.2	-1.3	0.61	0.64	1	1	0	900	900	0
8/1/2024 10:09	44301	BEAV_T2	3	2	-1	0.53	2	1.47	0	0	0	0	0	0	0	0
8/1/2024 10:09	29402	BELT_T1	2	2	0	4.7	4.75	0.05	0	0	0	0	0	0	0	0
8/1/2024 10:09	41903	REED_T1	4	4	0	0.73	0.9	0.17	0	0	0	0	0	0	0	0
8/1/2024 10:10	55101	WERT_T1	0	0	0	0	0	0	-1.69	-1.6	4	4	0	3300	3300	0
8/1/2024 10:10	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 10:10	64101	REFR_T1	5	8	3	0.54	0.53	-0.01	0.9	0.95	0	0	0	0	0	0
8/1/2024 10:11	20402	ASHF_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
8/1/2024 10:11	67602	WARW_T2	4	3	-1	0.78	0.3	-0.48	1.28	0.83	2	2	0	1500	1500	0
8/1/2024 10:11	55101	WERT_T1	0	0	0	0	0	0	-3.39	-3.2	8	8	0	6600	6600	0
8/1/2024 10:11	20403	ASHF_T2	1	2	1	0.3	0.4	0.1	3.8	2.06	0	0	0	0	0	0
8/1/2024 10:11	20401	ASHF_T2	4	6	2	0.98	1.23	0.25	0	0	0	0	0	0	0	0
8/1/2024 10:11	45502	DERR_T2	2	14	12	0.3	0.43	0.13	0	0	0	0	0	0	0	0
8/1/2024 10:11	67605	WARW_T1	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
8/1/2024 10:11	45501	DERR_T2	7	15	8	1.24	0.97	-0.27	1.37	1.43	2	2	0	1800	1800	0
8/1/2024 10:11	64101	REFR_T1	5	8	3	0.54	0.53	-0.01	1.35	1.42	0	0	0	0	0	0
8/1/2024 10:11	29402	BELT_T1	2	2	0	4.7	4.75	0.05	0	0	0	0	0	0	0	0
8/1/2024 10:11	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 10:12	20402	ASHF_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
8/1/2024 10:12	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/1/2024 10:12	20401	ASHF_T2	4	6	2	0.98	1.23	0.25	0	0	0	0	0	0	0	0
8/1/2024 10:12	67605	WARW_T1	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
8/1/2024 10:12	20403	ASHF_T2	1	2	1	0.3	0.4	0.1	1.9	1.03	0	0	0	0	0	0
8/1/2024 10:12	45801	HEGI_T1	0	0	0	0	0	0	-0.09	-0.04	1	1	0	900	900	0
8/1/2024 10:12	64101	REFR_T1	5	8	3	0.54	0.53	-0.01	0.9	0.95	0	0	0	0	0	0
8/1/2024 10:13	45501	DERR_T2	7	15	8	1.24	0.97	-0.27	1.37	1.43	2	2	0	1800	1800	0
8/1/2024 10:13	67602	WARW_T2	4	3	-1	0.78	0.3	-0.48	1.28	0.83	2	2	0	1500	1500	0
8/1/2024 10:13	23401	HONE_T2	1	5	4	0.2	0.2	0	-0.11	-0.08	0	0	0	0	0	0
8/1/2024 10:13	45502	DERR_T2	2	14	12	0.3	0.43	0.13	0.16	0.17	1	1	0	300	300	0
8/1/2024 10:14	22901	HARW_T1	5	5	0	0.2	0	-0.2	0.13	0.03	1	1	0	1200	1200	0
8/1/2024 10:14	64101	REFR_T1	5	8	3	0.54	0.53	-0.01	0.45	0.47	0	0	0	0	0	0
8/1/2024 10:15	46506	LOHA_T1	0	0	0	0	0	0	-1.77	-1.66	2	2	0	2100	2100	0
8/1/2024 10:15	53601	DALM_T2	1	3	2	0.6	0.15	-0.45	-0.22	-0.25	1	1	0	900	900	0
8/1/2024 10:15	46501	LOHA_T1	1	2	1	1.6	0	-1.6	0	0	0	0	0	0	0	0
8/1/2024 10:16	52401	GRPA_T2	1	5	4	0.2	0.25	0.05	0	0	0	0	0	0	0	0
8/1/2024 10:16	52002	LING_T2	1	6	5	0	0	0	0.74	0.79	0	0	0	0	0	0
8/1/2024 10:16	52404	GRPA_T2	1	5	4	0.4	0.3	-0.1	2.09	2.03	0	0	0	0	0	0
8/1/2024 10:16	52403	GRPA_T2	9	16	7	0.6	0.73	0.13	0	0	0	0	0	0	0	0
8/1/2024 10:16	16902	MECK_T1	1	1	0	0.1	0.2	0.1	0.38	0.39	0	0	0	0	0	0
8/1/2024 10:16	52004	LING_T2	2	2	0	4.6	4.45	-0.15	0	0	0	0	0	0	0	0
8/1/2024 10:16	52402	GRPA_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/1/2024 10:17	16402	MOPO_T1	0	9	9	0	0	0	0.39	0.42	0	0	0	0	0	0
8/1/2024 10:17	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 10:17	40602	PIGR_T1	1	1	0	0.7	1	0.3	-1.09	-1.03	1	1	0	600	600	0
8/1/2024 10:18	16402	MOPO_T1	0	9	9	0	0	0	0.39	0.42	0	0	0	0	0	0
8/1/2024 10:18	64302	LINC_T2	7	13	6	0.84	0.67	-0.17	1.75	1.77	0	0	0	0	0	0
8/1/2024 10:18	46506	LOHA_T1	0	0	0	0	0	0	-1.77	-1.66	2	2	0	2100	2100	0
8/1/2024 10:18	46501	LOHA_T1	1	2	1	1.6	0	-1.6	0	0	0	0	0	0	0	0
8/1/2024 10:18	45801	HEGI_T1	0	0	0	0	0	0	-0.09	-0.04	1	1	0	900	900	0
8/1/2024 10:19	52002	LING_T2	1	6	5	0	0	0	0.74	0.79	0	0	0	0	0	0
8/1/2024 10:19	57702	PAXT_T1	1	1	0	2.2	1.9	-0.3	-0.36	-0.3	0	0	0	0	0	0
8/1/2024 10:19	16902	MECK_T1	1	1	0	0.1	0.2	0.1	0.19	0.2	0	0	0	0	0	0
8/1/2024 10:19	52004	LING_T2	2	2	0	4.6	4.45	-0.15	0	0	0	0	0	0	0	0
8/1/2024 10:19	42302	MOWR_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
8/1/2024 10:19	42801	SELI_T1	0	0	0	0	0	0	-0.15	-0.1	1	1	0	1200	1200	0
8/1/2024 10:19	40101	HUNT_T2	31	21	-10	0.32	0.42	0.1	-0.2	-0.18	0	0	0	0	0	0
8/1/2024 10:20	64802	MONE_T2	1	1	0	3.1	0.4	-2.7	0.52	0.34	0	0	0	0	0	0
8/1/2024 10:20	56501	ROCK_T2	1	10	9	1	0.18	-0.82	-0.59	-1.79	0	0	0	0	0	0
8/1/2024 10:20	64801	MONE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 10:20	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 10:20	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/1/2024 10:22	56501	ROCK_T2	1	10	9	1	0.18	-0.82	-1.79	-1.76	0	0	0	0	0	0
8/1/2024 10:22	55002	NEWP_T1	4	2	-2	0.53	0.8	0.27	0	0	0	0	0	0	0	0
8/1/2024 10:22	42801	SELI_T1	0	0	0	0	0	0	-0.1	-0.01	1	1	0	1200	1200	0
8/1/2024 10:22	55001	NEWP_T1	0	1	1	0	0	0	-0.27	-0.2	1	1	0	600	600	0
8/1/2024 10:22	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/1/2024 10:23	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/1/2024 10:23	56501	ROCK_T2	1	10	9	1	0.18	-0.82	-1.79	-1.76	0	0	0	0	0	0
8/1/2024 10:23	59101	WALK_T2	1	2	1	1	1.15	0.15	1.12	0.97	4	4	0	2400	2400	0
8/1/2024 10:23	55001	NEWP_T1	0	1	1	0	0	0	-0.27	-0.2	1	1	0	600	600	0
8/1/2024 10:23	55002	NEWP_T1	4	2	-2	0.53	0.8	0.27	0	0	0	0	0	0	0	0
8/1/2024 10:25	59101	WALK_T2	1	2	1	1	1.15	0.15	1.12	0.97	4	4	0	2400	2400	0
8/1/2024 10:25	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 10:26	53502	EVIL_T2	4	4	0	0.78	0.73	-0.05	0	0	0	0	0	0	0	0
8/1/2024 10:26	25603	ARRO_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
8/1/2024 10:26	53501	EVIL_T2	1	3	2	0.7	0.35	-0.35	-1.28	-1.26	4	4	0	2700	2700	0
8/1/2024 10:27	20601	GRWO_T2	8	107	99	0.34	0.47	0.13	0.32	0.33	1	1	0	1200	1200	0
8/1/2024 10:27	20603	GRWO_T2	0	0	0	0	0	0	-0.25	-0.27	1	1	0	900	900	0
8/1/2024 10:27	25603	ARRO_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
8/1/2024 10:28	20601	GRWO_T2	8	107	99	0.34	0.47	0.13	0.32	0.33	1	1	0	1200	1200	0
8/1/2024 10:28	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 10:28	45802	HEGI_T2	4	29	25	0.25	0.3	0.05	1.06	1.19	1	1	0	300	300	0
8/1/2024 10:29	53502	EVIL_T2	4	4	0	0.78	0.73	-0.05	0	0	0	0	0	0	0	0
8/1/2024 10:29	53501	EVIL_T2	1	3	2	0.7	0.35	-0.35	-2.56	-2.53	8	8	0	5400	5400	0
8/1/2024 10:30	53501	EVIL_T2	1	3	2	0.6	0.35	-0.25	-2.56	-2.53	8	8	0	5400	5400	0
8/1/2024 10:30	53502	EVIL_T2	3	4	1	0.83	0.5	-0.33	0	0	0	0	0	0	0	0
8/1/2024 10:32	45802	HEGI_T2	14	36	22	0.3	0.42	0.12	1.06	1.19	1	1	0	300	300	0
8/1/2024 10:34	52002	LING_T2	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 10:34	47401	PENS_T1	5	5	0	0.88	0.55	-0.33	1.15	1.1	0	0	0	0	0	0
8/1/2024 10:34	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
8/1/2024 10:34	52004	LING_T2	2	3	1	4.45	3.03	-1.42	0.15	0.18	0	0	0	0	0	0
8/1/2024 10:35	43108	SMIL_T2	0	0	0	0	0	0	-0.83	-0.8	1	1	0	1200	1200	0
8/1/2024 10:36	40602	PIGR_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
8/1/2024 10:36	40603	PIGR_T1	0	0	0	0	0	0	0.65	0.69	0	0	0	0	0	0
8/1/2024 10:36	54203	PENN_T1	3	5	2	0.13	0.22	0.09	0	0	0	0	0	0	0	0
8/1/2024 10:36	42201	SHEN_T2	0	0	0	0	0	0	0.46	0.51	1	1	0	600	600	0
8/1/2024 10:36	54201	PENN_T1	3	3	0	1.17	1.3	0.13	-1.66	-1.62	0	0	0	0	0	0
8/1/2024 10:37	29401	BELT_T1	0	10	10	0	0.17	0.17	0	0	1	1	0	900	900	0
8/1/2024 10:37	29402	BELT_T1	1	4	3	8.6	2.5	-6.1	0	0	0	0	0	0	0	0
8/1/2024 10:38	43108	SMIL_T2	0	0	0	0	0	0	-0.8	-0.81	1	1	0	1200	1200	0
8/1/2024 10:39	46206	DANV_T2	61	54	-7	0.86	0.57	-0.29	1.78	1.77	2	2	0	2100	2100	0
8/1/2024 10:39	46204	DANV_T2	13	5	-8	0.19	0.5	0.31	0	0	0	0	0	0	0	0
8/1/2024 10:40	29401	BELT_T1	0	10	10	0	0.17	0.17	0	0	1	1	0	900	900	0
8/1/2024 10:40	29402	BELT_T1	1	4	3	8.6	2.5	-6.1	0	0	0	0	0	0	0	0
8/1/2024 10:42	46204	DANV_T2	13	5	-8	0.19	0.5	0.31	0	0	0	0	0	0	0	0
8/1/2024 10:42	46206	DANV_T2	61	54	-7	0.86	0.57	-0.29	1.78	1.77	2	2	0	2100	2100	0
8/1/2024 10:42	67605	WARW_T1	0	0	0	0	0	0	-0.73	-0.64	0	0	0	0	0	0
8/1/2024 10:43	52403	GRPA_T2	9	17	8	0.61	0.73	0.12	-0.18	-0.13	0	0	0	0	0	0
8/1/2024 10:43	52402	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/1/2024 10:43	52401	GRPA_T2	2	6	4	0.25	0.37	0.12	0	0	0	0	0	0	0	0
8/1/2024 10:43	52404	GRPA_T2	4	4	0	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/1/2024 10:44	67605	WARW_T1	0	0	0	0	0	0	-1.45	-1.29	0	0	0	0	0	0
8/1/2024 10:45	41702	LOGA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/1/2024 10:46	23202	HIRU_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
8/1/2024 10:46	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/1/2024 10:47	40902	JESH_T1	0	0	0	0	0	0	-0.83	-0.77	3	3	0	1800	1800	0
8/1/2024 10:47	40901	JESH_T1	4	3	-1	0.7	1.7	1	0	0	0	0	0	0	0	0
8/1/2024 10:49	64203	KINZ_T1	6	7	1	1.23	1.13	-0.1	0	0	0	0	0	0	0	0
8/1/2024 10:49	64204	KINZ_T1	2	3	1	0.45	0.45	0	0	0	0	0	0	0	0	0
8/1/2024 10:49	64201	KINZ_T1	1	6	5	0.1	0.3	0.2	-0.3	-0.2	4	4	0	2100	2100	0
8/1/2024 10:50	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/1/2024 10:50	56501	ROCK_T2	10	37	27	0.21	0.25	0.04	-3.53	-3.36	0	0	0	0	0	0
8/1/2024 10:52	56501	ROCK_T2	10	37	27	0.21	0.25	0.04	-5.04	-4.82	0	0	0	0	0	0
8/1/2024 10:52	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/1/2024 10:53	56501	ROCK_T2	10	37	27	0.21	0.25	0.04	-1.68	-1.61	0	0	0	0	0	0
8/1/2024 10:53	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/1/2024 10:54	20402	ASHF_T2	6	8	2	0.62	0.61	-0.01	0	0	0	0	0	0	0	0
8/1/2024 10:54	20403	ASHF_T2	1	1	0	0.5	0	-0.5	1.05	1.05	0	0	0	0	0	0
8/1/2024 10:54	20401	ASHF_T2	5	6	1	1.12	1.42	0.3	0	0	0	0	0	0	0	0
8/1/2024 10:55	60101	COCA_T1	1	1	0	0.2	0.4	0.2	-0.24	-0.23	1	1	0	1200	1200	0
8/1/2024 10:55	20402	ASHF_T2	6	8	2	0.62	0.61	-0.01	0	0	0	0	0	0	0	0
8/1/2024 10:55	20401	ASHF_T2	5	6	1	1.12	1.42	0.3	0	0	0	0	0	0	0	0
8/1/2024 10:55	20403	ASHF_T2	1	1	0	0.5	0	-0.5	1.05	1.05	0	0	0	0	0	0
8/1/2024 10:56	61102	BERK_T5	0	0	0	0	0	0	0.85	0.77	1	1	0	300	300	0
8/1/2024 10:57	53502	EVIL_T2	4	4	0	0.95	0.6	-0.35	0	0	0	0	0	0	0	0
8/1/2024 10:57	56501	ROCK_T2	10	37	27	0.21	0.25	0.04	-1.68	-1.61	0	0	0	0	0	0
8/1/2024 10:57	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/1/2024 10:57	53501	EVIL_T2	3	2	-1	0.2	0.35	0.15	-0.81	-0.71	5	5	0	2900	2900	0
8/1/2024 10:58	45502	DERR_T2	15	69	54	0.57	0.52	-0.05	0.14	0.17	1	1	0	300	300	0
8/1/2024 10:58	67602	WARW_T2	0	3	3	0	0.1	0.1	0.83	0.82	2	2	0	1500	1500	0
8/1/2024 10:58	60101	COCA_T1	1	1	0	0.2	0.4	0.2	-0.24	-0.23	1	1	0	1200	1200	0
8/1/2024 10:58	45501	DERR_T2	24	41	17	0.67	0.66	-0.01	0	0	0	0	0	0	0	0
8/1/2024 10:59	46801	HEPB_T2	2	2	0	0.95	1.05	0.1	0	0	0	0	0	0	0	0
8/1/2024 10:59	46803	HEPB_T2	0	1	1	0	0.5	0.5	0.72	0.7	0	0	0	0	0	0
8/1/2024 10:59	63401	HONY_T1	2	0	-2	0.55	0	-0.55	0.29	0.28	1	1	0	600	600	0
8/1/2024 10:59	61102	BERK_T5	0	0	0	0	0	0	0.85	0.77	1	1	0	300	300	0
8/1/2024 10:59	53501	EVIL_T2	3	2	-1	0.2	0.35	0.15	-0.81	-0.71	5	5	0	2900	2900	0
8/1/2024 10:59	53502	EVIL_T2	4	4	0	0.95	0.6	-0.35	-0.13	-0.2	3	3	0	2100	2100	0
8/1/2024 11:00	60101	COCA_T1	1	0	-1	0.4	0	-0.4	-0.24	-0.23	1	1	0	1200	1200	0
8/1/2024 11:00	53501	EVIL_T2	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
8/1/2024 11:00	53502	EVIL_T2	4	2	-2	0.5	0.4	-0.1	-0.13	-0.2	3	3	0	2100	2100	0
8/1/2024 11:01	53501	EVIL_T2	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
8/1/2024 11:01	53502	EVIL_T2	4	2	-2	0.5	0.4	-0.1	-0.13	-0.2	3	3	0	2100	2100	0
8/1/2024 11:02	25503	MADI_T1	0	0	0	0	0	0	-0.53	-0.5	0	0	0	0	0	0
8/1/2024 11:02	43202	MVIL_T2	1	1	0	0.5	0.3	-0.2	-0.65	-0.54	0	0	0	0	0	0
8/1/2024 11:02	25501	MADI_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/1/2024 11:02	46803	HEPB_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/1/2024 11:02	46801	HEPB_T2	2	2	0	1.05	1.05	0	0.27	0.29	0	0	0	0	0	0
8/1/2024 11:03	53802	MBRG_T2	0	0	0	0	0	0	1.44	1.64	0	0	0	0	0	0
8/1/2024 11:04	43202	MVIL_T2	1	1	0	0.5	0.3	-0.2	-0.33	-0.27	0	0	0	0	0	0
8/1/2024 11:04	57702	PAXT_T1	1	1	0	2.6	0	-2.6	-0.24	-0.21	0	0	0	0	0	0
8/1/2024 11:04	48301	ORWI_T1	149	171	22	0.54	0.27	-0.27	2.42	2.45	0	0	0	0	0	0
8/1/2024 11:06	43103	SMIL_T2	0	0	0	0	0	0	-1.56	-1.5	0	0	0	0	0	0
8/1/2024 11:07	43202	MVIL_T2	1	1	0	0.5	0.3	-0.2	-0.27	-0.27	0	0	0	0	0	0
8/1/2024 11:08	46302	ROHR_T1	4	4	0	1.5	1.33	-0.17	0	0	0	0	0	0	0	0
8/1/2024 11:08	43103	SMIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 11:08	46301	ROHR_T1	3	5	2	0.63	0.56	-0.07	0.44	0.49	0	0	0	0	0	0
8/1/2024 11:09	43103	SMIL_T2	0	0	0	0	0	0	-1.5	-1.5	0	0	0	0	0	0
8/1/2024 11:10	44301	BEAV_T2	2	2	0	1.25	0.75	-0.5	0.32	0.89	4	4	0	3000	3000	0
8/1/2024 11:10	53601	DALM_T2	0	1	1	0	0.5	0.5	-0.37	-0.38	1	1	0	900	900	0
8/1/2024 11:11	44301	BEAV_T2	2	2	0	1.25	0.75	-0.5	0.16	0.44	2	2	0	1500	1500	0
8/1/2024 11:13	64101	REFR_T1	12	10	-2	1.18	0.9	-0.28	-0.02	0.03	0	0	0	0	0	0
8/1/2024 11:13	44801	EDAN_T2	1	4	3	1.5	1.07	-0.43	-1.06	-1.02	0	0	0	0	0	0
8/1/2024 11:15	44801	EDAN_T2	3	3	0	1.03	1.05	0.02	-1.06	-1.02	0	0	0	0	0	0
8/1/2024 11:16	40101	HUNT_T2	85	42	-43	0.47	0.3	-0.17	-0.42	-0.31	0	0	0	0	0	0
8/1/2024 11:16	42901	MIDD_T2	5	3	-2	0.7	0.57	-0.13	0	0	0	0	0	0	0	0
8/1/2024 11:16	42902	MIDD_T2	1	2	1	2.6	1.4	-1.2	0	0	0	0	0	0	0	0
8/1/2024 11:16	42903	MIDD_T2	3	4	1	0.37	0.3	-0.07	2.44	2.72	0	0	0	0	0	0
8/1/2024 11:17	47101	MARL_T1	49	43	-6	0.74	1.04	0.3	-0.57	-0.49	1	1	0	600	600	0
8/1/2024 11:18	65604	QVIL_T2	0	0	0	0	0	0	1.14	1.16	0	0	0	0	0	0
8/1/2024 11:19	56501	ROCK_T2	14	7	-7	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
8/1/2024 11:19	65604	QVIL_T2	0	0	0	0	0	0	1.14	1.16	0	0	0	0	0	0
8/1/2024 11:19	56504	ROCK_T2	1	2	1	0.5	0	-0.5	-0.74	-0.66	0	0	0	0	0	0
8/1/2024 11:20	42201	SHEN_T2	0	0	0	0	0	0	-0.05	-0.03	1	1	0	600	600	0
8/1/2024 11:20	47101	MARL_T1	49	43	-6	0.74	1.04	0.3	-0.57	-0.49	1	1	0	600	600	0
8/1/2024 11:20	55001	NEWP_T1	1	4	3	0.2	0	-0.2	-0.32	-0.29	2	2	0	1200	1200	0
8/1/2024 11:20	40101	HUNT_T2	85	42	-43	0.47	0.3	-0.17	-0.42	-0.31	0	0	0	0	0	0
8/1/2024 11:20	55002	NEWP_T1	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
8/1/2024 11:21	47402	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/1/2024 11:21	47403	PENS_T1	1	1	0	1.3	2.4	1.1	0	0	0	0	0	0	0	0
8/1/2024 11:21	47401	PENS_T1	7	10	3	0.44	0.82	0.38	0.56	0.59	0	0	0	0	0	0
8/1/2024 11:21	56501	ROCK_T2	14	7	-7	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
8/1/2024 11:21	56504	ROCK_T2	1	2	1	0.5	0	-0.5	-0.37	-0.33	0	0	0	0	0	0
8/1/2024 11:22	61102	BERK_T5	0	0	0	0	0	0	0.85	0.88	1	1	0	300	300	0
8/1/2024 11:22	43103	SMIL_T2	0	0	0	0	0	0	-1.5	-1.47	0	0	0	0	0	0
8/1/2024 11:23	43103	SMIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 11:23	56501	ROCK_T2	14	7	-7	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
8/1/2024 11:23	56504	ROCK_T2	1	2	1	0.5	0	-0.5	-0.33	-0.33	0	0	0	0	0	0
8/1/2024 11:24	56504	ROCK_T2	1	2	1	0.5	0	-0.5	-0.33	-0.33	0	0	0	0	0	0
8/1/2024 11:24	61102	BERK_T5	0	0	0	0	0	0	0.85	0.88	1	1	0	300	300	0
8/1/2024 11:24	42802	SELI_T1	0	0	0	0	0	0	-1.07	-1.08	1	1	0	900	900	0
8/1/2024 11:24	56501	ROCK_T2	14	7	-7	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
8/1/2024 11:24	43103	SMIL_T2	0	0	0	0	0	0	-1.5	-1.47	0	0	0	0	0	0
8/1/2024 11:25	42802	SELI_T1	0	0	0	0	0	0	-1.07	-1.08	1	1	0	900	900	0
8/1/2024 11:25	61102	BERK_T5	0	0	0	0	0	0	0.85	0.88	1	1	0	300	300	0
8/1/2024 11:26	25603	ARRO_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
8/1/2024 11:26	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
8/1/2024 11:26	67605	WARW_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
8/1/2024 11:26	61102	BERK_T5	0	0	0	0	0	0	0.85	0.88	1	1	0	300	300	0
8/1/2024 11:26	67602	WARW_T2	3	2	-1	0.4	0.1	-0.3	0.85	0.81	2	2	0	1500	1500	0
8/1/2024 11:27	67602	WARW_T2	3	2	-1	0.4	0.1	-0.3	0.85	0.81	2	2	0	1500	1500	0
8/1/2024 11:27	42802	SELI_T1	0	0	0	0	0	0	-1.07	-1.08	1	1	0	900	900	0
8/1/2024 11:27	61102	BERK_T5	0	0	0	0	0	0	0.85	0.88	1	1	0	300	300	0
8/1/2024 11:27	67605	WARW_T1	1	1	0	0.2	0.7	0.5	-0.75	-0.7	0	0	0	0	0	0
8/1/2024 11:28	67602	WARW_T2	3	2	-1	0.4	0.1	-0.3	1.7	1.62	4	4	0	3000	3000	0
8/1/2024 11:28	61102	BERK_T5	0	0	0	0	0	0	0.85	0.88	1	1	0	300	300	0
8/1/2024 11:30	40101	HUNT_T2	24	43	19	0.28	0.32	0.04	-0.31	-0.34	0	0	0	0	0	0
8/1/2024 11:31	25402	LAHA_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
8/1/2024 11:33	41002	LAUR_T2	4	4	0	0.78	0.6	-0.18	0.36	0.34	0	0	0	0	0	0
8/1/2024 11:33	41001	LAUR_T2	7	10	3	0.67	0.59	-0.08	0	0	0	0	0	0	0	0
8/1/2024 11:36	51602	DUKE_T2	1	4	3	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
8/1/2024 11:36	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 11:36	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/1/2024 11:37	51602	DUKE_T2	1	4	3	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
8/1/2024 11:37	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/1/2024 11:38	50701	SMEC_T1	0	1	1	0	0.5	0.5	-1.47	-1.41	2	2	0	2100	2100	0
8/1/2024 11:38	61303	EARL_T1	0	1	1	0	0	0	1.71	1.72	0	0	0	0	0	0
8/1/2024 11:38	42802	SELI_T1	0	0	0	0	0	0	-1.08	-1.02	1	1	0	900	900	0
8/1/2024 11:38	45402	WBLO_T2	3	12	9	0.53	0.17	-0.36	-0.83	-0.79	1	1	0	900	900	0
8/1/2024 11:38	42801	SELI_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
8/1/2024 11:39	42801	SELI_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
8/1/2024 11:39	58706	ROSE_T2	1	1	0	2	2.3	0.3	0	0	0	0	0	0	0	0
8/1/2024 11:39	56501	ROCK_T2	7	4	-3	0.34	0.38	0.04	0	0	0	0	0	0	0	0
8/1/2024 11:39	58701	ROSE_T2	0	0	0	0	0	0	-0.24	-0.22	1	1	0	600	600	0
8/1/2024 11:39	56504	ROCK_T2	2	2	0	0.2	0	-0.2	-0.33	-0.33	0	0	0	0	0	0
8/1/2024 11:39	42802	SELI_T1	0	0	0	0	0	0	-2.15	-2.05	2	2	0	1800	1800	0
8/1/2024 11:39	58705	ROSE_T2	2	3	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/1/2024 11:39	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/1/2024 11:40	42801	SELI_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
8/1/2024 11:40	42802	SELI_T1	0	0	0	0	0	0	-1.08	-1.02	1	1	0	900	900	0
8/1/2024 11:40	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 11:40	40201	BEGA_T2	0	6	6	0	3	3	0	0	0	0	0	0	0	0
8/1/2024 11:40	42201	SHEN_T2	0	0	0	0	0	0	-0.03	-0.02	1	1	0	600	600	0
8/1/2024 11:42	53501	EVIL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/1/2024 11:42	53502	EVIL_T2	1	1	0	0.4	0.2	-0.2	-0.19	-0.38	6	6	0	4200	4200	0
8/1/2024 11:43	67602	WARW_T2	1	2	1	0.1	0.25	0.15	0.81	0.82	2	2	0	1500	1500	0
8/1/2024 11:44	53601	DALM_T2	1	2	1	0.5	0.5	0	-0.3	-0.29	1	1	0	900	900	0
8/1/2024 11:44	67602	WARW_T2	1	2	1	0.1	0.25	0.15	0.81	0.82	2	2	0	1500	1500	0
8/1/2024 11:45	41001	LAUR_T2	9	16	7	0.57	0.54	-0.03	0	0	0	0	0	0	0	0
8/1/2024 11:45	41002	LAUR_T2	4	4	0	0.6	0.65	0.05	0.34	0.39	0	0	0	0	0	0
8/1/2024 11:46	52403	GRPA_T2	23	84	61	0.55	0.58	0.03	0	0	0	0	0	0	0	0
8/1/2024 11:46	52402	GRPA_T2	7	6	-1	0.54	0.1	-0.44	0	0	0	0	0	0	0	0
8/1/2024 11:46	52404	GRPA_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/1/2024 11:46	52401	GRPA_T2	39	32	-7	0.55	0.42	-0.13	-0.12	-0.69	0	0	0	0	0	0
8/1/2024 11:46	40101	HUNT_T2	38	78	40	0.36	0.31	-0.05	0	0	0	0	0	0	0	0
8/1/2024 11:48	52004	LING_T2	3	3	0	3.17	4.85	1.68	0.38	0.4	0	0	0	0	0	0
8/1/2024 11:49	54701	NEBL_T1	8	8	0	0.44	0.3	-0.14	0	0	1	1	0	600	600	0
8/1/2024 11:52	67002	STHI_T2	0	0	0	0	0	0	0.96	0.96	1	1	0	600	600	0
8/1/2024 11:52	59101	WALK_T2	5	4	-1	1.74	0.6	-1.14	1.34	1.07	4	4	0	2400	2400	0
8/1/2024 11:53	49803	UNIV_T1	1	1	0	6.2	6.7	0.5	0	0	0	0	0	0	0	0
8/1/2024 11:53	49804	UNIV_T1	0	0	0	0	0	0	1.34	1.23	0	0	0	0	0	0
8/1/2024 11:54	56504	ROCK_T2	0	3	3	0	0.45	0.45	-0.33	-0.25	0	0	0	0	0	0
8/1/2024 11:54	56501	ROCK_T2	2	5	3	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
8/1/2024 11:56	45501	DERR_T2	58	41	-17	0.62	0.75	0.13	1.52	1.54	2	2	0	1800	1800	0
8/1/2024 11:56	45502	DERR_T2	60	107	47	0.47	0.49	0.02	0	0	0	0	0	0	0	0
8/1/2024 11:57	44801	EDAN_T2	2	2	0	1.3	1.25	-0.05	-1.01	-1	0	0	0	0	0	0
8/1/2024 12:00	45501	DERR_T2	34	46	12	0.75	0.67	-0.08	1.52	1.54	2	2	0	1800	1800	0
8/1/2024 12:00	45502	DERR_T2	85	114	29	0.49	0.51	0.02	0	0	0	0	0	0	0	0
8/1/2024 12:01	59003	MIFF_T1	2	3	1	0.8	0.77	-0.03	-0.88	-0.55	0	0	0	0	0	0
8/1/2024 12:01	59001	MIFF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/1/2024 12:03	64204	KINZ_T1	3	4	1	1	0.17	-0.83	0	0	0	0	0	0	0	0
8/1/2024 12:03	52401	GRPA_T2	5	32	27	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
8/1/2024 12:03	64203	KINZ_T1	6	21	15	1.28	2.65	1.37	0.68	0.52	3	3	0	2100	2100	0
8/1/2024 12:03	64201	KINZ_T1	46	1	-45	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/1/2024 12:03	64202	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:03	52402	GRPA_T2	1	7	6	0.1	0.43	0.33	-0.4	-0.34	0	0	0	0	0	0
8/1/2024 12:03	52403	GRPA_T2	53	85	32	0.63	0.47	-0.16	0	0	0	0	0	0	0	0
8/1/2024 12:03	52404	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/1/2024 12:06	59202	THOM_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/1/2024 12:06	65001	NEFF_T2	0	0	0	0	0	0	0.76	-0.44	1	1	0	1200	1200	0
8/1/2024 12:07	41903	REED_T1	4	4	0	0.8	0.83	0.03	0	0	0	0	0	0	0	0
8/1/2024 12:07	41902	REED_T1	40	97	57	0.51	0.46	-0.05	0.78	0.82	1	1	0	900	900	0
8/1/2024 12:07	41901	REED_T1	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/1/2024 12:08	47401	PENS_T1	7	9	2	0.83	0.76	-0.07	0.72	0.75	0	0	0	0	0	0
8/1/2024 12:08	59202	THOM_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/1/2024 12:08	47402	PENS_T1	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/1/2024 12:09	64101	REFR_T1	10	14	4	2.17	1.81	-0.36	0.08	0.1	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/1/2024 12:09	43402	BENT_T1	4	4	0	0.53	0.48	-0.05	-0.38	-0.36	1	1	0	900	900	0
8/1/2024 12:10	46204	DANV_T2	23	19	-4	0.53	0.67	0.14	0	0	0	0	0	0	0	0
8/1/2024 12:10	46206	DANV_T2	55	61	6	0.67	0.68	0.01	0	0	0	0	0	0	0	0
8/1/2024 12:10	59101	WALK_T2	4	3	-1	0.88	0.6	-0.28	1.07	1.22	4	4	0	2400	2400	0
8/1/2024 12:10	46203	DANV_T2	0	0	0	0	0	0	-0.43	-0.71	0	0	0	0	0	0
8/1/2024 12:11	46204	DANV_T2	23	19	-4	0.53	0.67	0.14	0	0	0	0	0	0	0	0
8/1/2024 12:11	46206	DANV_T2	55	61	6	0.67	0.68	0.01	0	0	0	0	0	0	0	0
8/1/2024 12:11	46203	DANV_T2	0	0	0	0	0	0	-0.43	-0.71	0	0	0	0	0	0
8/1/2024 12:12	43402	BENT_T1	4	4	0	0.53	0.48	-0.05	-0.38	-0.36	1	1	0	900	900	0
8/1/2024 12:12	65802	RTWN_T2	0	0	0	0	0	0	-0.28	-0.25	0	0	0	0	0	0
8/1/2024 12:14	40101	HUNT_T2	30	177	147	0.35	0.51	0.16	-0.39	-0.4	0	0	0	0	0	0
8/1/2024 12:15	64305	LINC_T1	1	2	1	0.2	0.1	-0.1	-0.46	-0.49	0	0	0	0	0	0
8/1/2024 12:16	57306	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:16	57304	MOAL_T2	4	27	23	0.95	0.72	-0.23	0.11	-0.2	0	0	0	0	0	0
8/1/2024 12:16	57303	MOAL_T2	1	1	0	8.7	8.6	-0.1	0	0	0	0	0	0	0	0
8/1/2024 12:17	60501	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:17	60504	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/1/2024 12:17	60502	NMAN_T2	0	0	0	0	0	0	0.58	0.7	0	0	0	0	0	0
8/1/2024 12:17	47001	HUGH_T2	3	4	1	7.27	6.87	-0.4	-0.07	-0.03	0	0	0	0	0	0
8/1/2024 12:18	47001	HUGH_T2	3	4	1	7.27	6.87	-0.4	-0.07	-0.03	0	0	0	0	0	0
8/1/2024 12:19	13503	MCMI_T2	1	1	0	0.1	0.2	0.1	-0.53	-0.51	0	0	0	0	0	0
8/1/2024 12:19	42901	MIDD_T2	3	15	12	0.53	0.68	0.15	0	0	0	0	0	0	0	0
8/1/2024 12:19	57702	PAXT_T1	0	0	0	0	0	0	-0.06	-0.02	0	0	0	0	0	0
8/1/2024 12:19	57701	PAXT_T1	1	0	-1	1.6	0	-1.6	0	0	0	0	0	0	0	0
8/1/2024 12:19	42902	MIDD_T2	14	24	10	0.79	0.71	-0.08	0	0	0	0	0	0	0	0
8/1/2024 12:19	42903	MIDD_T2	0	0	0	0	0	0	1.86	1.85	0	0	0	0	0	0
8/1/2024 12:21	64904	MILL_T1	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
8/1/2024 12:22	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
8/1/2024 12:22	47401	PENS_T1	5	11	6	0.76	1.1	0.34	0.75	0.74	0	0	0	0	0	0
8/1/2024 12:22	57101	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/1/2024 12:22	47402	PENS_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 12:22	57104	SPHI_T2	0	0	0	0	0	0	-1.76	-1.75	1	1	0	900	900	0
8/1/2024 12:22	57106	SPHI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/1/2024 12:23	43103	SMIL_T2	0	0	0	0	0	0	-2.74	-2.76	0	0	0	0	0	0
8/1/2024 12:23	20401	ASHF_T2	8	7	-1	0.95	1.02	0.07	0.29	0.24	1	1	0	600	600	0
8/1/2024 12:23	43101	SMIL_T2	4	2	-2	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
8/1/2024 12:23	45702	LIND_T2	4	3	-1	0.55	0.53	-0.02	-1.18	-1.19	0	0	0	0	0	0
8/1/2024 12:23	20403	ASHF_T2	10	12	2	0.31	0.19	-0.12	0	0	0	0	0	0	0	0
8/1/2024 12:23	20402	ASHF_T2	12	41	29	0.78	0.76	-0.02	0	0	0	0	0	0	0	0
8/1/2024 12:24	43101	SMIL_T2	4	2	-2	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
8/1/2024 12:24	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
8/1/2024 12:24	43103	SMIL_T2	0	0	0	0	0	0	-1.37	-1.38	0	0	0	0	0	0
8/1/2024 12:24	47402	PENS_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 12:24	47401	PENS_T1	5	11	6	0.76	1.1	0.34	1.49	1.49	0	0	0	0	0	0
8/1/2024 12:25	61102	BERK_T5	0	0	0	0	0	0	0.4	0.52	1	1	0	300	300	0
8/1/2024 12:26	52202	DEVO_T2	1	1	0	0.4	0.4	0	-1.66	-1.64	0	0	0	0	0	0
8/1/2024 12:26	52204	DEVO_T2	6	6	0	1.45	1.5	0.05	0	0	0	0	0	0	0	0
8/1/2024 12:27	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:27	21202	ECAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:27	21206	ECAR_T2	24	41	17	0.97	0.78	-0.19	0.85	0.86	0	0	0	0	0	0
8/1/2024 12:27	61102	BERK_T5	0	0	0	0	0	0	0.8	1.04	2	2	0	600	600	0
8/1/2024 12:28	61102	BERK_T5	0	0	0	0	0	0	0.4	0.52	1	1	0	300	300	0
8/1/2024 12:29	61102	BERK_T5	0	0	0	0	0	0	0.4	0.52	1	1	0	300	300	0
8/1/2024 12:30	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:30	64302	LINC_T2	64	178	114	0.59	0.56	-0.03	1.96	2.04	0	0	0	0	0	0
8/1/2024 12:30	52004	LING_T2	4	2	-2	2.55	4.55	2	0	0	0	0	0	0	0	0
8/1/2024 12:30	52002	LING_T2	5	13	8	0.18	0.43	0.25	0.35	0.3	0	0	0	0	0	0
8/1/2024 12:31	45801	HEGI_T1	0	0	0	0	0	0	0.04	0.14	1	1	0	900	900	0
8/1/2024 12:32	56501	ROCK_T2	2	2	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
8/1/2024 12:32	21204	ECAR_T2	1	7	6	0	0	0	-0.23	-0.23	0	0	0	0	0	0
8/1/2024 12:32	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:32	21202	ECAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:32	56504	ROCK_T2	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
8/1/2024 12:32	52002	LING_T2	5	13	8	0.18	0.43	0.25	0.71	0.61	0	0	0	0	0	0
8/1/2024 12:32	21206	ECAR_T2	25	83	58	0.81	0.52	-0.29	0	0	0	0	0	0	0	0
8/1/2024 12:32	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:32	52004	LING_T2	4	2	-2	2.55	4.55	2	0	0	0	0	0	0	0	0
8/1/2024 12:33	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:33	56504	ROCK_T2	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
8/1/2024 12:33	56501	ROCK_T2	2	2	0	1.3	0.8	-0.5	-1.46	-1.41	0	0	0	0	0	0
8/1/2024 12:34	52002	LING_T2	5	13	8	0.18	0.43	0.25	0	0	0	0	0	0	0	0
8/1/2024 12:34	52004	LING_T2	4	2	-2	2.55	4.55	2	0.53	0.52	0	0	0	0	0	0
8/1/2024 12:34	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:35	46301	ROHR_T1	4	4	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
8/1/2024 12:35	46302	ROHR_T1	4	4	0	0.98	1.1	0.12	0.48	0.48	0	0	0	0	0	0
8/1/2024 12:36	50701	SMEC_T1	1	1	0	0.3	0.3	0	-1.25	-1.26	2	2	0	2100	2100	0
8/1/2024 12:37	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:37	46301	ROHR_T1	4	4	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
8/1/2024 12:37	57702	PAXT_T1	0	0	0	0	0	0	-0.01	0.04	0	0	0	0	0	0
8/1/2024 12:37	56501	ROCK_T2	2	2	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
8/1/2024 12:37	43101	SMIL_T2	1	4	3	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/1/2024 12:37	46302	ROHR_T1	4	4	0	0.98	1.1	0.12	0.48	0.48	0	0	0	0	0	0
8/1/2024 12:37	56504	ROCK_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
8/1/2024 12:37	43108	SMIL_T2	0	2	2	0	0	0	-0.71	-0.63	1	1	0	1200	1200	0
8/1/2024 12:38	51304	WIND_T2	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
8/1/2024 12:39	43103	SMIL_T2	0	0	0	0	0	0	-4.14	-4.23	0	0	0	0	0	0
8/1/2024 12:39	43108	SMIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:39	43101	SMIL_T2	1	4	3	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/1/2024 12:41	49804	UNIV_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:41	49803	UNIV_T1	1	1	0	6.7	6.9	0.2	-1.39	-1.35	0	0	0	0	0	0
8/1/2024 12:42	52202	DEVO_T2	1	3	2	0.4	0.2	-0.2	-1.64	-1.63	0	0	0	0	0	0
8/1/2024 12:42	52204	DEVO_T2	6	7	1	1.5	1.37	-0.13	0	0	0	0	0	0	0	0
8/1/2024 12:43	60902	DONG_T2	1	2	1	0.1	0.2	0.1	0.88	0.78	0	0	0	0	0	0
8/1/2024 12:43	60903	DONG_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:43	60901	DONG_T2	16	32	16	1.19	1.38	0.19	0	0	0	0	0	0	0	0
8/1/2024 12:44	41801	GOCI_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/1/2024 12:44	56501	ROCK_T2	2	2	0	1.3	0.8	-0.5	-1.41	-1.39	0	0	0	0	0	0
8/1/2024 12:44	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:46	58402	MORO_T1	2	3	1	1.35	1.25	-0.1	0	0	0	0	0	0	0	0
8/1/2024 12:46	58401	MORO_T1	0	0	0	0	0	0	-0.84	-0.74	2	2	0	1500	1500	0
8/1/2024 12:47	26401	INOR_T1	13	32	19	1.14	0.73	-0.41	0	0	0	0	0	0	0	0
8/1/2024 12:47	26402	INOR_T1	22	67	45	0.42	0.36	-0.06	-1.08	-1.18	1	1	0	600	600	0
8/1/2024 12:47	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:49	22905	HARW_T1	8	5	-3	0.29	0.2	-0.09	0	0	0	0	0	0	0	0
8/1/2024 12:49	22903	HARW_T1	26	23	-3	1.22	1.27	0.05	0	0	0	0	0	0	0	0
8/1/2024 12:49	22901	HARW_T1	35	32	-3	0.53	0.57	0.04	0.25	0.27	1	1	0	1200	1200	0
8/1/2024 12:50	65901	SAKR_T2	1	11	10	5	1.04	-3.96	-0.01	0.01	2	2	0	1500	1500	0
8/1/2024 12:50	65903	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:51	64201	KINZ_T1	15	47	32	0.29	0.47	0.18	0	0	0	0	0	0	0	0
8/1/2024 12:51	64204	KINZ_T1	3	6	3	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
8/1/2024 12:51	64202	KINZ_T1	2	13	11	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
8/1/2024 12:51	58402	MORO_T1	2	3	1	1.35	1.25	-0.1	0	0	0	0	0	0	0	0
8/1/2024 12:51	64203	KINZ_T1	35	68	33	0.68	0.85	0.17	1.04	1.07	3	3	0	2100	2100	0
8/1/2024 12:51	58401	MORO_T1	0	0	0	0	0	0	-0.84	-0.74	2	2	0	1500	1500	0
8/1/2024 12:52	55105	WERT_T1	0	0	0	0	0	0	0.86	0.95	1	1	0	900	900	0
8/1/2024 12:52	55101	WERT_T1	128	31	-97	0.9	0.82	-0.08	-1.59	-1.77	4	4	0	3300	3300	0
8/1/2024 12:52	50701	SMEC_T1	1	1	0	0.3	0.2	-0.1	-1.24	-0.16	2	1	-1	2100	1200	-900
8/1/2024 12:53	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:53	55101	WERT_T1	128	31	-97	0.9	0.82	-0.08	-1.59	-1.77	4	4	0	3300	3300	0
8/1/2024 12:53	27205	YATE_T1	3	2	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/1/2024 12:53	27201	YATE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:54	47401	PENS_T1	7	5	-2	0.89	0.43	-0.46	0.89	0.44	0	0	0	0	0	0
8/1/2024 12:54	51602	DUKE_T2	4	0	-4	0.25	0	-0.25	0	0	1	1	0	1200	1200	0
8/1/2024 12:54	27205	YATE_T1	3	2	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/1/2024 12:54	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/1/2024 12:54	51604	DUKE_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
8/1/2024 12:54	27201	YATE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 12:54	47403	PENS_T1	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
8/1/2024 12:54	40201	BEGA_T2	20	32	12	0.68	1.08	0.4	0	0	0	0	0	0	0	0
8/1/2024 12:55	55101	WERT_T1	128	31	-97	0.9	0.82	-0.08	-1.59	-1.77	4	4	0	3300	3300	0
8/1/2024 12:56	40201	BEGA_T2	20	32	12	0.68	1.08	0.4	0	0	0	0	0	0	0	0
8/1/2024 12:56	51604	DUKE_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
8/1/2024 12:56	51602	DUKE_T2	4	0	-4	0.25	0	-0.25	0	0	1	1	0	1200	1200	0
8/1/2024 12:56	55101	WERT_T1	128	31	-97	0.9	0.82	-0.08	-1.59	-1.77	4	4	0	3300	3300	0
8/1/2024 12:57	51604	DUKE_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
8/1/2024 12:57	51602	DUKE_T2	4	0	-4	0.25	0	-0.25	0	0	1	1	0	1200	1200	0
8/1/2024 12:58	61802	EELI_T2	8	8	0	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
8/1/2024 12:58	61801	EELI_T2	4	6	2	0.35	0.43	0.08	0.05	0.1	1	1	0	600	600	0
8/1/2024 13:01	40302	TAMA_T3	0	0	0	0	0	0	-0.95	-0.94	1	1	0	1200	1200	0
8/1/2024 13:01	40301	TAMA_T3	2	3	1	1	1.4	0.4	0	0	0	0	0	0	0	0
8/1/2024 13:02	52002	LING_T2	4	20	16	1.25	0.28	-0.97	0.37	0.41	0	0	0	0	0	0
8/1/2024 13:02	52006	LING_T2	1	5	4	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/1/2024 13:02	42901	MIDD_T2	24	17	-7	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
8/1/2024 13:02	42902	MIDD_T2	29	28	-1	1.22	0.66	-0.56	0	0	0	0	0	0	0	0
8/1/2024 13:02	42903	MIDD_T2	4	4	0	0.75	0.4	-0.35	2.42	2.39	0	0	0	0	0	0
8/1/2024 13:02	52004	LING_T2	2	2	0	4.55	4.75	0.2	0	0	0	0	0	0	0	0
8/1/2024 13:03	64202	KINZ_T1	12	26	14	0.33	0.37	0.04	0	0	0	0	0	0	0	0
8/1/2024 13:03	52002	LING_T2	4	20	16	1.25	0.28	-0.97	0.37	0.41	0	0	0	0	0	0
8/1/2024 13:03	64204	KINZ_T1	3	6	3	1.07	0.67	-0.4	0	0	0	0	0	0	0	0
8/1/2024 13:03	64203	KINZ_T1	34	69	35	0.83	0.7	-0.13	0	0	0	0	0	0	0	0
8/1/2024 13:03	64201	KINZ_T1	37	56	19	0.49	0.45	-0.04	-0.94	-0.93	5	5	0	3300	3300	0
8/1/2024 13:03	52006	LING_T2	1	5	4	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/1/2024 13:03	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 13:03	52004	LING_T2	2	2	0	4.55	4.75	0.2	0	0	0	0	0	0	0	0
8/1/2024 13:05	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 13:06	66902	SHIL_T2	6	5	-1	0.57	0	-0.57	0	0	0	0	0	0	0	0
8/1/2024 13:06	47403	PENS_T1	1	1	0	1.5	1.2	-0.3	0	0	0	0	0	0	0	0
8/1/2024 13:06	47401	PENS_T1	3	4	1	0.77	1.03	0.26	0.89	0.44	0	0	0	0	0	0
8/1/2024 13:06	66901	SHIL_T2	0	0	0	0	0	0	-1.61	-1.62	1	1	0	1200	1200	0
8/1/2024 13:06	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/1/2024 13:08	27201	YATE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 13:08	27205	YATE_T1	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/1/2024 13:09	66703	STRA_T1	18	36	18	0.47	0.5	0.03	0.32	0.4	0	0	0	0	0	0
8/1/2024 13:09	43101	SMIL_T2	2	3	1	0.55	0.2	-0.35	-0.51	-0.55	1	1	0	300	300	0
8/1/2024 13:09	43108	SMIL_T2	2	2	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
8/1/2024 13:09	66701	STRA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/1/2024 13:10	52204	DEVO_T2	7	11	4	1.37	1.56	0.19	0	0	0	0	0	0	0	0
8/1/2024 13:10	56504	ROCK_T2	0	0	0	0	0	0	-0.23	-0.19	0	0	0	0	0	0
8/1/2024 13:10	52202	DEVO_T2	3	2	-1	0.3	0.3	0	-1.63	-1.59	0	0	0	0	0	0
8/1/2024 13:10	56501	ROCK_T2	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
8/1/2024 13:11	52202	DEVO_T2	3	2	-1	0.3	0.3	0	-1.63	-1.59	0	0	0	0	0	0
8/1/2024 13:11	52204	DEVO_T2	7	11	4	1.37	1.56	0.19	0	0	0	0	0	0	0	0
8/1/2024 13:13	26803	JAFR_T1	0	0	0	0	0	0	0.24	0.26	1	1	0	900	900	0
8/1/2024 13:13	52202	DEVO_T2	3	2	-1	0.3	0.3	0	-1.63	-1.59	0	0	0	0	0	0
8/1/2024 13:13	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/1/2024 13:13	42701	AUGU_T1	5	29	24	0.12	0.24	0.12	0	0	2	2	0	1800	1800	0
8/1/2024 13:13	45801	HEGI_T1	0	0	0	0	0	0	0.23	0.22	1	1	0	900	900	0
8/1/2024 13:13	52204	DEVO_T2	7	11	4	1.37	1.56	0.19	0	0	0	0	0	0	0	0
8/1/2024 13:15	47001	HUGH_T2	4	3	-1	6.08	8.2	2.12	-0.85	-0.8	1	1	0	900	900	0
8/1/2024 13:15	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 13:15	47002	HUGH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 13:16	25402	LAHA_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
8/1/2024 13:17	42903	MIDD_T2	3	4	1	0.43	0.2	-0.23	2.39	2.51	0	0	0	0	0	0
8/1/2024 13:17	42902	MIDD_T2	28	29	1	0.84	0.71	-0.13	0	0	0	0	0	0	0	0
8/1/2024 13:17	15604	NSTR_T1	1	1	0	0.9	0.7	-0.2	0.55	0.53	0	0	0	0	0	0
8/1/2024 13:17	42901	MIDD_T2	17	17	0	0.72	0.66	-0.06	0	0	0	0	0	0	0	0
8/1/2024 13:19	51602	DUKE_T2	0	5	5	0	0.45	0.45	0	0	0	0	0	0	0	0
8/1/2024 13:19	15604	NSTR_T1	1	1	0	0.9	0.7	-0.2	0.55	0.53	0	0	0	0	0	0
8/1/2024 13:19	51604	DUKE_T2	2	2	0	0.35	0.3	-0.05	-0.01	-0.01	0	0	0	0	0	0
8/1/2024 13:19	66703	STRA_T1	22	45	23	0.51	0.52	0.01	0.32	0.4	0	0	0	0	0	0
8/1/2024 13:20	46102	MACI_T1	0	0	0	0	0	0	1.09	1.09	0	0	0	0	0	0
8/1/2024 13:20	57702	PAXT_T1	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
8/1/2024 13:20	57701	PAXT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 13:21	64801	MONE_T2	17	18	1	0.3	0.6	0.3	0.34	0.36	0	0	0	0	0	0
8/1/2024 13:21	64802	MONE_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/1/2024 13:22	51602	DUKE_T2	0	5	5	0	0.45	0.45	0	0	0	0	0	0	0	0
8/1/2024 13:22	51604	DUKE_T2	2	2	0	0.35	0.3	-0.05	-0.01	-0.01	0	0	0	0	0	0
8/1/2024 13:22	45402	WBLO_T2	0	0	0	0	0	0	-0.61	-0.6	1	1	0	900	900	0
8/1/2024 13:24	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/1/2024 13:25	46204	DANV_T2	43	17	-26	0.54	0.46	-0.08	0	0	0	0	0	0	0	0
8/1/2024 13:25	46206	DANV_T2	46	14	-32	0.65	0.62	-0.03	0	0	0	0	0	0	0	0
8/1/2024 13:25	45501	DERR_T2	90	76	-14	0.69	0.72	0.03	1.58	1.67	2	2	0	1800	1800	0
8/1/2024 13:25	46203	DANV_T2	2	7	5	0.3	0	-0.3	-0.67	-0.61	0	0	0	0	0	0
8/1/2024 13:25	45502	DERR_T2	148	101	-47	0.73	0.48	-0.25	0	0	0	0	0	0	0	0
8/1/2024 13:25	46205	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 13:26	67804	WLAN_T1	10	10	0	1.24	1.32	0.08	0	0	0	0	0	0	0	0
8/1/2024 13:26	67801	WLAN_T1	56	112	56	0.82	1.01	0.19	-0.56	-0.58	0	0	0	0	0	0
8/1/2024 13:27	62102	ELAN_T1	0	1	1	0	0	0	0.1	0.03	0	0	0	0	0	0
8/1/2024 13:28	62601	ENGL_T1	0	0	0	0	0	0	-0.65	-0.71	0	0	0	0	0	0
8/1/2024 13:28	62607	ENGL_T1	2	6	4	1.25	0.97	-0.28	0	0	0	0	0	0	0	0
8/1/2024 13:28	45501	DERR_T2	90	76	-14	0.69	0.72	0.03	1.58	1.67	2	2	0	1800	1800	0
8/1/2024 13:28	45502	DERR_T2	148	101	-47	0.73	0.48	-0.25	0	0	0	0	0	0	0	0
8/1/2024 13:28	62602	ENGL_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/1/2024 13:28	62604	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 13:28	62606	ENGL_T1	15	25	10	2.02	1.84	-0.18	0	0	0	0	0	0	0	0
8/1/2024 13:29	45801	HEGI_T1	0	0	0	0	0	0	0.22	0.24	1	1	0	900	900	0
8/1/2024 13:30	46206	DANV_T2	12	17	5	0.58	0.62	0.04	0	0	0	0	0	0	0	0
8/1/2024 13:30	46204	DANV_T2	17	19	2	0.49	0.24	-0.25	0	0	0	0	0	0	0	0
8/1/2024 13:30	46203	DANV_T2	0	7	7	0	0.3	0.3	-0.67	-0.61	0	0	0	0	0	0
8/1/2024 13:31	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 13:31	22903	HARW_T1	20	23	3	0.7	1.01	0.31	0	0	0	0	0	0	0	0
8/1/2024 13:31	22901	HARW_T1	20	33	13	0.4	0.51	0.11	0.29	0.19	1	1	0	1200	1200	0
8/1/2024 13:31	52202	DEVO_T2	1	5	4	0.9	0.4	-0.5	-1.59	-1.57	0	0	0	0	0	0
8/1/2024 13:31	53502	EVIL_T2	0	0	0	0	0	0	-1.24	-1.27	3	3	0	2100	2100	0
8/1/2024 13:31	52204	DEVO_T2	11	8	-3	1.08	1.97	0.89	0	0	0	0	0	0	0	0
8/1/2024 13:31	22905	HARW_T1	9	11	2	1.19	0.17	-1.02	0	0	0	0	0	0	0	0
8/1/2024 13:32	42903	MIDD_T2	3	7	4	0.33	0.2	-0.13	2.51	2.36	0	0	0	0	0	0
8/1/2024 13:32	42902	MIDD_T2	26	28	2	0.69	1.31	0.62	0	0	0	0	0	0	0	0
8/1/2024 13:32	13503	MCMI_T2	1	1	0	0.2	0.1	-0.1	-0.51	-0.45	0	0	0	0	0	0
8/1/2024 13:32	42901	MIDD_T2	15	29	14	0.65	0.76	0.11	0	0	0	0	0	0	0	0
8/1/2024 13:33	16603	PONO_T2	0	0	0	0	0	0	1.06	0.94	1	1	0	1200	1200	0
8/1/2024 13:33	46501	LOHA_T1	24	29	5	0.66	0.45	-0.21	0	0	0	0	0	0	0	0
8/1/2024 13:33	46504	LOHA_T1	4	4	0	0.7	1.13	0.43	0	0	0	0	0	0	0	0
8/1/2024 13:33	46506	LOHA_T1	0	0	0	0	0	0	-1.46	-1.42	2	2	0	2100	2100	0
8/1/2024 13:35	66703	STRA_T1	36	46	10	0.55	0.6	0.05	0.4	0.49	0	0	0	0	0	0
8/1/2024 13:36	47802	MOOA_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
8/1/2024 13:36	51602	DUKE_T2	5	5	0	0.38	0	-0.38	0	0	0	0	0	0	0	0
8/1/2024 13:36	51604	DUKE_T2	1	1	0	0.3	0	-0.3	-0.01	-0.01	0	0	0	0	0	0
8/1/2024 13:37	48302	ORWI_T2	19	21	2	0.53	0.48	-0.05	0.18	0.23	0	0	0	0	0	0
8/1/2024 13:38	60701	BREC_T1	22	100	78	0.92	0.79	-0.13	0.61	0.62	2	2	0	1200	1200	0
8/1/2024 13:38	46302	ROHR_T1	3	7	4	1.03	0.68	-0.35	0.51	0.53	0	0	0	0	0	0
8/1/2024 13:38	57004	WHHI_T2	0	1	1	0	2.1	2.1	0.04	0.02	0	0	0	0	0	0
8/1/2024 13:38	46301	ROHR_T1	4	5	1	0.45	0.48	0.03	0	0	0	0	0	0	0	0
8/1/2024 13:38	57003	WHHI_T2	14	14	0	0.74	0.19	-0.55	0	0	0	0	0	0	0	0
8/1/2024 13:39	57003	WHHI_T2	14	14	0	0.74	0.19	-0.55	0	0	0	0	0	0	0	0
8/1/2024 13:39	22003	BOHE_T1	2	1	-1	0.45	0.8	0.35	0	0	0	0	0	0	0	0
8/1/2024 13:39	57004	WHHI_T2	0	1	1	0	2.1	2.1	0.04	0.02	0	0	0	0	0	0
8/1/2024 13:39	22002	BOHE_T1	0	0	0	0	0	0	0.77	0.77	0	0	0	0	0	0
8/1/2024 13:40	60701	BREC_T1	22	100	78	0.92	0.79	-0.13	0.61	0.62	2	2	0	1200	1200	0
8/1/2024 13:42	46504	LOHA_T1	4	4	0	0.7	1.13	0.43	0	0	0	0	0	0	0	0
8/1/2024 13:42	51904	COPA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/1/2024 13:42	51903	COPA_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
8/1/2024 13:42	46503	LOHA_T1	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
8/1/2024 13:42	46501	LOHA_T1	24	29	5	0.66	0.45	-0.21	0	0	0	0	0	0	0	0
8/1/2024 13:43	60201	ATGL_T2	0	0	0	0	0	0	0.26	0.23	2	2	0	900	900	0
8/1/2024 13:43	60701	BREC_T1	22	100	78	0.92	0.79	-0.13	0.61	0.62	2	2	0	1200	1200	0
8/1/2024 13:45	45801	HEGI_T1	0	0	0	0	0	0	0.24	0.21	1	1	0	900	900	0
8/1/2024 13:46	47104	MARL_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 13:46	42903	MIDD_T2	3	7	4	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/1/2024 13:46	47101	MARL_T1	250	333	83	0.9	0.95	0.05	-0.21	-0.17	1	1	0	600	600	0
8/1/2024 13:46	42901	MIDD_T2	16	35	19	0.76	0.75	-0.01	0	0	0	0	0	0	0	0
8/1/2024 13:46	42902	MIDD_T2	28	28	0	1.34	1.32	-0.02	-0.14	-0.12	2	2	0	900	900	0
8/1/2024 13:49	42903	MIDD_T2	3	7	4	0.2	0.3	0.1	2.36	2.54	0	0	0	0	0	0
8/1/2024 13:49	42901	MIDD_T2	16	35	19	0.76	0.75	-0.01	0	0	0	0	0	0	0	0
8/1/2024 13:49	42902	MIDD_T2	28	28	0	1.34	1.32	-0.02	0	0	0	0	0	0	0	0
8/1/2024 13:50	52006	LING_T2	5	5	0	0.78	0	-0.78	0	0	0	0	0	0	0	0
8/1/2024 13:50	52002	LING_T2	18	36	18	0.26	0	-0.26	0.47	0.42	0	0	0	0	0	0
8/1/2024 13:50	52004	LING_T2	2	3	1	4.35	5.15	0.8	0	0	0	0	0	0	0	0
8/1/2024 13:51	47101	MARL_T1	250	333	83	0.9	0.95	0.05	-0.21	-0.17	1	1	0	600	600	0
8/1/2024 13:51	47104	MARL_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 13:54	65901	SAKR_T2	31	19	-12	0.62	0.56	-0.06	0.07	0.19	2	2	0	1500	1500	0
8/1/2024 13:54	65902	SAKR_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/1/2024 13:54	43101	SMIL_T2	3	8	5	1.13	0.4	-0.73	0	0	0	0	0	0	0	0
8/1/2024 13:54	43102	SMIL_T2	0	0	0	0	0	0	0.13	0.3	1	1	0	600	600	0
8/1/2024 13:54	43108	SMIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/1/2024 13:54	65903	SAKR_T2	2	1	-1	0.95	0.2	-0.75	0	0	0	0	0	0	0	0
8/1/2024 13:57	61102	BERK_T5	0	0	0	0	0	0	1.32	1.1	2	2	0	600	600	0
8/1/2024 13:57	61101	BERK_T5	12	13	1	2.02	1.3	-0.72	0	0	0	0	0	0	0	0
8/1/2024 13:57	51302	WIND_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
8/1/2024 13:57	51306	WIND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 13:58	61102	BERK_T5	0	0	0	0	0	0	0.66	0.55	1	1	0	300	300	0
8/1/2024 13:58	53501	EVIL_T2	0	0	0	0	0	0	-0.58	-0.7	5	5	0	2900	2900	0
8/1/2024 13:58	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 13:58	61101	BERK_T5	12	13	1	2.02	1.3	-0.72	0	0	0	0	0	0	0	0
8/1/2024 13:59	46101	MACI_T2	0	0	0	0	0	0	0.3	0.28	1	1	0	1200	1200	0
8/1/2024 14:00	63304	GREE_T1	0	0	0	0	0	0	-2.73	-2.7	1	1	0	1200	1200	0
8/1/2024 14:02	58402	MORO_T1	4	6	2	0.38	0.53	0.15	0	0	0	0	0	0	0	0
8/1/2024 14:02	58401	MORO_T1	0	0	0	0	0	0	-0.61	-0.61	2	2	0	1500	1500	0
8/1/2024 14:02	20601	GRWO_T2	420	436	16	1.29	1.33	0.04	0.66	0.67	1	1	0	1200	1200	0
8/1/2024 14:03	63304	GREE_T1	0	0	0	0	0	0	-2.73	-2.7	1	1	0	1200	1200	0
8/1/2024 14:04	64202	KINZ_T1	53	56	3	1.21	1.18	-0.03	0	0	0	0	0	0	0	0
8/1/2024 14:04	64204	KINZ_T1	52	87	35	0.63	0.58	-0.05	0	0	0	0	0	0	0	0
8/1/2024 14:04	58402	MORO_T1	4	6	2	0.38	0.53	0.15	0	0	0	0	0	0	0	0
8/1/2024 14:04	64201	KINZ_T1	363	417	54	0.76	0.94	0.18	0	0	0	0	0	0	0	0
8/1/2024 14:04	64203	KINZ_T1	268	307	39	0.84	0.74	-0.1	1.24	1.24	3	3	0	2100	2100	0
8/1/2024 14:04	58401	MORO_T1	0	0	0	0	0	0	-0.61	-0.61	2	2	0	1500	1500	0
8/1/2024 14:09	63203	MGTN_T1	0	0	0	0	0	0	0.39	0.38	1	1	0	600	600	0
8/1/2024 14:09	47401	PENS_T1	4	6	2	0.8	0.58	-0.22	0.45	0.44	0	0	0	0	0	0
8/1/2024 14:09	47403	PENS_T1	1	2	1	0.6	1.1	0.5	0	0	0	0	0	0	0	0
8/1/2024 14:10	43101	SMIL_T2	8	3	-5	0.44	0.3	-0.14	0	0	0	0	0	0	0	0
8/1/2024 14:10	47401	PENS_T1	4	6	2	0.8	0.58	-0.22	0.89	0.88	0	0	0	0	0	0
8/1/2024 14:10	43108	SMIL_T2	1	2	1	0.2	0.2	0	-0.6	-0.57	1	1	0	1200	1200	0
8/1/2024 14:10	47403	PENS_T1	1	2	1	0.6	1.1	0.5	0	0	0	0	0	0	0	0
8/1/2024 14:10	43104	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 14:12	45502	DERR_T2	85	51	-34	0.65	0.51	-0.14	0	0	0	0	0	0	0	0
8/1/2024 14:12	45501	DERR_T2	49	41	-8	0.83	0.72	-0.11	1.68	1.59	2	2	0	1800	1800	0
8/1/2024 14:13	45501	DERR_T2	49	41	-8	0.83	0.72	-0.11	3.35	3.19	4	4	0	3600	3600	0
8/1/2024 14:13	45502	DERR_T2	85	51	-34	0.65	0.51	-0.14	0	0	0	0	0	0	0	0
8/1/2024 14:14	43108	SMIL_T2	1	2	1	0.2	0.2	0	-0.6	-0.57	1	1	0	1200	1200	0
8/1/2024 14:14	43104	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 14:14	43101	SMIL_T2	8	3	-5	0.44	0.3	-0.14	0	0	0	0	0	0	0	0
8/1/2024 14:16	61505	EPET_T1	0	0	0	0	0	0	0.83	0.77	0	0	0	0	0	0
8/1/2024 14:18	40101	HUNT_T2	397	223	-174	0.94	0.44	-0.5	-0.38	-0.97	0	0	0	0	0	0
8/1/2024 14:18	59003	MIFF_T1	2	6	4	1.2	0.65	-0.55	-0.93	-0.6	0	0	0	0	0	0
8/1/2024 14:19	52004	LING_T2	2	3	1	5.15	3.47	-1.68	0.58	0.61	0	0	0	0	0	0
8/1/2024 14:19	13503	MCMI_T2	0	0	0	0	0	0	-0.47	-0.45	0	0	0	0	0	0
8/1/2024 14:20	64203	KINZ_T1	260	279	19	0.77	0.56	-0.21	1.24	1.07	3	3	0	2100	2100	0
8/1/2024 14:20	64201	KINZ_T1	381	419	38	0.94	0.68	-0.26	0	0	0	0	0	0	0	0
8/1/2024 14:20	64202	KINZ_T1	53	56	3	1.18	0.79	-0.39	0	0	0	0	0	0	0	0
8/1/2024 14:20	64204	KINZ_T1	39	85	46	0.61	0.9	0.29	0	0	0	0	0	0	0	0
8/1/2024 14:23	46001	BERW_T1	11	1	-10	0.45	0	-0.45	2	0.81	0	0	0	0	0	0
8/1/2024 14:23	63403	HONY_T2	11	6	-5	0.41	0.4	-0.01	-1.36	-1.38	1	1	0	600	600	0
8/1/2024 14:25	51003	NHAR_T1	0	0	0	0	0	0	-0.76	-0.76	1	1	0	1200	1200	0
8/1/2024 14:25	47401	PENS_T1	5	6	1	0.66	0.64	-0.02	0.44	0.55	0	0	0	0	0	0
8/1/2024 14:25	51002	NHAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/1/2024 14:25	47403	PENS_T1	0	3	3	0	0.9	0.9	0	0	0	0	0	0	0	0
8/1/2024 14:25	51004	NHAR_T1	2	1	-1	3.5	6.6	3.1	0	0	0	0	0	0	0	0
8/1/2024 14:26	22901	HARW_T1	22	26	4	0.65	0.58	-0.07	0.36	0.26	1	1	0	1200	1200	0
8/1/2024 14:26	22903	HARW_T1	15	17	2	0.61	0.33	-0.28	0	0	0	0	0	0	0	0
8/1/2024 14:26	22905	HARW_T1	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 14:26	46001	BERW_T1	11	1	-10	0.45	0	-0.45	2	0.81	0	0	0	0	0	0
8/1/2024 14:31	64201	KINZ_T1	417	349	-68	1.3	0.33	-0.97	-0.66	-0.55	5	5	0	3300	3300	0
8/1/2024 14:31	64204	KINZ_T1	85	8	-77	0.59	0.65	0.06	0	0	0	0	0	0	0	0
8/1/2024 14:31	64202	KINZ_T1	56	49	-7	1.61	0.15	-1.46	0	0	0	0	0	0	0	0
8/1/2024 14:31	64203	KINZ_T1	277	52	-225	0.76	0.63	-0.13	0	0	0	0	0	0	0	0
8/1/2024 14:32	57303	MOAL_T2	1	1	0	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
8/1/2024 14:32	57304	MOAL_T2	23	24	1	0.86	0.65	-0.21	0	0	0	0	0	0	0	0
8/1/2024 14:32	57302	MOAL_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	1200	1200	0
8/1/2024 14:32	50107	HARR_T3	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
8/1/2024 14:32	64303	LINC_T1	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
8/1/2024 14:32	50103	HARR_T3	1	1	0	0.1	0.1	0	-0.78	-0.91	1	1	0	1200	1200	0
8/1/2024 14:32	64305	LINC_T1	2	1	-1	1.3	1.5	0.2	-0.26	-0.29	0	0	0	0	0	0
8/1/2024 14:32	50201	HARR_T3	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 14:32	64301	LINC_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/1/2024 14:32	50105	HARR_T3	6	6	0	5.85	5.82	-0.03	0	0	0	0	0	0	0	0
8/1/2024 14:33	44202	POIN_T2	1	1	0	0.2	0.5	0.3	-0.05	-0.05	1	1	0	1200	1200	0
8/1/2024 14:33	61701	ELIZ_T1	1	1	0	0.8	1.5	0.7	1.49	1.48	0	0	0	0	0	0
8/1/2024 14:33	44203	POIN_T2	5	6	0	1.58	1.18	-0.4	0	0	0	0	0	0	0	0
8/1/2024 14:34	61701	ELIZ_T1	1	1	0	0.8	1.5	0.7	1.49	1.48	0	0	0	0	0	0
8/1/2024 14:35	64201	KINZ_T1	417	349	-68	1.3	0.33	-0.97	0	0	0	0	0	0	0	0
8/1/2024 14:35	64203	KINZ_T1	277	52	-225	0.76	0.63	-0.13	1.07	0.84	3	3	0	2100	2100	0
8/1/2024 14:35	64202	KINZ_T1	56	49	-7	1.61	0.15	-1.46	0	0	0	0	0	0	0	0
8/1/2024 14:35	57603	RUTH_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/1/2024 14:35	57601	RUTH_T2	0	2	2	0	0.9	0.9	-1.24	-1.38	1	1	0	900	900	0
8/1/2024 14:35	64204	KINZ_T1	85	8	-77	0.59	0.65	0.06	0	0	0	0	0	0	0	0
8/1/2024 14:38	61701	ELIZ_T1	1	1	0	0.8	1.5	0.7	1.48	1.47	0	0	0	0	0	0
8/1/2024 14:41	62104	ELAN_T1	1	1	0	3.2	0	-3.2	0	0	0	0	0	0	0	0
8/1/2024 14:41	62102	ELAN_T1	0	0	0	0	0	0	-0.08	0	0	0	0	0	0	0
8/1/2024 14:43	56504	ROCK_T2	0	0	0	0	0	0	-0.64	-0.47	0	0	0	0	0	0
8/1/2024 14:43	56501	ROCK_T2	6	6	0	0.28	0.6	0.32	0	0	0	0	0	0	0	0
8/1/2024 14:44	45502	DERR_T2	32	47	15	0.57	0.49	-0.08	0	0	0	0	0	0	0	0
8/1/2024 14:44	45501	DERR_T2	30	45	15	0.68	0.67	-0.01	3.21	3.53	4	4	0	3600	3600	0
8/1/2024 14:45	20601	GRWO_T2	412	312	-100	1.44	0.96	-0.48	0.68	0.45	1	1	0	1200	1200	0
8/1/2024 14:45	45502	DERR_T2	28	57	29	0.49	0.52	0.03	0	0	0	0	0	0	0	0
8/1/2024 14:45	45501	DERR_T2	32	44	12	0.63	0.68	0.05	1.6	1.77	2	2	0	1800	1800	0
8/1/2024 14:47	67502	WEWI_T2	0	1	1	0	0.7	0.7	-0.36	-0.42	1	1	0	900	900	0
8/1/2024 14:48	46903	MNTG_T2	4	2	-2	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
8/1/2024 14:48	46901	MNTG_T2	0	0	0	0	0	0	0.78	0.59	1	1	0	1200	1200	0
8/1/2024 14:49	46903	MNTG_T2	4	2	-2	0.43	0.2	-0.23	0	-0.14	1	1	0	600	600	0
8/1/2024 14:49	65603	OVIL_T2	0	0	0	0	0	0	0.01	0.07	0	0	0	0	0	0
8/1/2024 14:49	67502	WEWI_T2	0	1	1	0	0.7	0.7	-0.36	-0.42	1	1	0	900	900	0
8/1/2024 14:51	43304	WATS_T2	29	36	7	0.49	0.5	0.01	0	0	0	0	0	0	0	0
8/1/2024 14:51	43301	WATS_T2	2	2	0	0.5	0.2	-0.3	0.17	0.19	1	1	0	900	900	0
8/1/2024 14:52	51305	WIND_T1	0	1	1	0	0.5	0.5	0	-0.05	0	0	0	0	0	0
8/1/2024 14:55	46205	DANV_T2	2	5	3	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/1/2024 14:55	46203	DANV_T2	2	5	3	0.75	0.73	-0.02	-0.54	-0.51	0	0	0	0	0	0
8/1/2024 14:55	46206	DANV_T2	30	81	51	0.61	0.9	0.29	0	0	0	0	0	0	0	0
8/1/2024 14:55	46204	DANV_T2	61	133	72	0.36	0.53	0.17	0	0	0	0	0	0	0	0
8/1/2024 14:56	20403	ASHF_T2	111	72	-39	0.98	0.63	-0.35	1.26	1.26	0	0	0	0	0	0
8/1/2024 14:56	47403	PENS_T1	2	2	0	0.3	1	0.7	0	0	0	0	0	0	0	0
8/1/2024 14:56	46205	DANV_T2	2	5	3	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/1/2024 14:56	20401	ASHF_T2	6	12	6	1.2	1.23	0.03	0	0	0	0	0	0	0	0
8/1/2024 14:56	47401	PENS_T1	5	4	-1	0.64	1.3	0.66	0.78	0.74	0	0	0	0	0	0
8/1/2024 14:56	46206	DANV_T2	30	81	51	0.61	0.9	0.29	0	0	0	0	0	0	0	0
8/1/2024 14:56	46204	DANV_T2	61	133	72	0.36	0.53	0.17	0	0	0	0	0	0	0	0
8/1/2024 14:56	46203	DANV_T2	2	5	3	0.75	0.73	-0.02	-0.54	-0.51	0	0	0	0	0	0
8/1/2024 14:56	20402	ASHF_T2	82	81	-1	1.09	1.04	-0.05	0	0	0	0	0	0	0	0
8/1/2024 14:56	62102	ELAN_T1	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
8/1/2024 14:56	62104	ELAN_T1	1	0	-1	3.4	0	-3.4	0	0	0	0	0	0	0	0
8/1/2024 14:58	43505	WWIL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/1/2024 14:58	53601	DALM_T2	5	5	0	0.74	0.3	-0.44	-0.79	-1.17	2	2	0	1500	1500	0
8/1/2024 14:58	43504	WWIL_T1	34	61	27	1.42	1.03	-0.39	0	0	0	0	0	0	0	0
8/1/2024 14:58	60101	COCA_T1	0	1	1	0	0.4	0.4	0.07	0.09	1	1	0	1200	1200	0
8/1/2024 14:59	60101	COCA_T1	0	1	1	0	0.4	0.4	0.07	0.09	1	1	0	1200	1200	0
8/1/2024 15:00	46206	DANV_T2	78	69	-9	1.04	0.61	-0.43	0	0	0	0	0	0	0	0
8/1/2024 15:00	46203	DANV_T2	3	6	3	0.97	0.43	-0.54	-0.54	-0.51	0	0	0	0	0	0
8/1/2024 15:00	46204	DANV_T2	133	118	-15	0.63	0.46	-0.17	0	0	0	0	0	0	0	0
8/1/2024 15:00	46205	DANV_T2	5	0	-5	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/1/2024 15:00	60101	COCA_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/1/2024 15:01	58706	ROSE_T2	1	2	1	1.7	2	0.3	0	0	0	0	0	0	0	0
8/1/2024 15:01	58702	ROSE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/1/2024 15:01	58705	ROSE_T2	4	5	1	0.78	1.08	0.3	0	0	0	0	0	0	0	0
8/1/2024 15:01	45501	DERR_T2	41	37	-4	0.63	0.56	-0.07	1.77	1.72	2	2	0	1800	1800	0
8/1/2024 15:01	45502	DERR_T2	45	54	9	0.51	0.42	-0.09	0	0	0	0	0	0	0	0
8/1/2024 15:01	58701	ROSE_T2	0	0	0	0	0	0	-1.51	-1.59	1	1	0	600	600	0
8/1/2024 15:02	42901	MIDD_T2	13	29	16	0.77	0.83	0.06	0	0	0	0	0	0	0	0
8/1/2024 15:02	42903	MIDD_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 15:02	42902	MIDD_T2	11	30	19	0.81	0.99	0.18	-0.15	-0.18	2	2	0	900	900	0
8/1/2024 15:03	42901	MIDD_T2	13	29	16	0.77	0.83	0.06	0	0	0	0	0	0	0	0
8/1/2024 15:03	42902	MIDD_T2	11	30	19	0.81	0.99	0.18	-0.3	-0.36	4	4	0	1800	1800	0
8/1/2024 15:03	42903	MIDD_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 15:04	64305	LINC_T1	1	2	1	1.5	1.2	-0.3	-0.31	-0.25	0	0	0	0	0	0
8/1/2024 15:04	67502	WEWI_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/1/2024 15:04	67503	WEWI_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
8/1/2024 15:04	64303	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 15:04	64301	LINC_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/1/2024 15:05	42902	MIDD_T2	11	30	19	0.81	0.99	0.18	-0.15	-0.18	2	2	0	900	900	0
8/1/2024 15:05	42901	MIDD_T2	13	29	16	0.77	0.83	0.06	0	0	0	0	0	0	0	0
8/1/2024 15:05	42903	MIDD_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 15:06	42903	MIDD_T2	0	5	5	0	0	0	2.19	2.2	0	0	0	0	0	0
8/1/2024 15:06	42901	MIDD_T2	13	29	16	0.77	0.83	0.06	0	0	0	0	0	0	0	0
8/1/2024 15:06	42902	MIDD_T2	11	30	19	0.81	0.99	0.18	0	0	0	0	0	0	0	0
8/1/2024 15:08	29402	BELT_T1	7	15	8	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
8/1/2024 15:08	57704	PAXT_T2	0	0	0	0	0	0	-1.59	-1.54	1	1	0	900	900	0
8/1/2024 15:08	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 15:09	43103	SMIL_T2	1	3	2	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/1/2024 15:09	42701	AUGU_T1	2	3	1	0.15	0.1	-0.05	0	0	2	2	0	1800	1800	0
8/1/2024 15:09	43101	SMIL_T2	8	54	46	0.61	0.66	0.05	0	0	0	0	0	0	0	0
8/1/2024 15:09	43102	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 15:09	43104	SMIL_T2	1	5	4	0.2	0	-0.2	-0.13	-0.14	1	1	0	300	300	0
8/1/2024 15:09	43108	SMIL_T2	5	12	7	0.32	0.63	0.31	0	0	0	0	0	0	0	0
8/1/2024 15:10	46203	DANV_T2	3	6	3	0.97	0.43	-0.54	-0.51	-0.48	0	0	0	0	0	0
8/1/2024 15:10	43102	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 15:10	46204	DANV_T2	133	118	-15	0.63	0.46	-0.17	0	0	0	0	0	0	0	0
8/1/2024 15:10	61701	ELIZ_T1	1	1	0	1.5	2.8	1.3	1.39	1.32	0	0	0	0	0	0
8/1/2024 15:10	43108	SMIL_T2	5	12	7	0.32	0.63	0.31	0	0	0	0	0	0	0	0
8/1/2024 15:10	43103	SMIL_T2	1	3	2	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/1/2024 15:10	42701	AUGU_T1	2	3	1	0.15	0.1	-0.05	0	0	2	2	0	1800	1800	0
8/1/2024 15:10	46206	DANV_T2	78	69	-9	1.04	0.61	-0.43	0	0	0	0	0	0	0	0
8/1/2024 15:10	43101	SMIL_T2	8	54	46	0.61	0.66	0.05	0	0	0	0	0	0	0	0
8/1/2024 15:10	46205	DANV_T2	5	0	-5	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/1/2024 15:10	43104	SMIL_T2	1	5	4	0.2	0	-0.2	-0.13	-0.14	1	1	0	300	300	0
8/1/2024 15:11	42701	AUGU_T1	2	3	1	0.15	0.1	-0.05	0	0	2	2	0	1800	1800	0
8/1/2024 15:12	43102	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 15:12	20402	ASHF_T2	75	146	71	1.05	0.93	-0.12	0	0	0	0	0	0	0	0
8/1/2024 15:12	43101	SMIL_T2	8	54	46	0.61	0.66	0.05	0	0	0	0	0	0	0	0
8/1/2024 15:12	43103	SMIL_T2	1	3	2	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/1/2024 15:12	43108	SMIL_T2	5	12	7	0.32	0.63	0.31	0	0	0	0	0	0	0	0
8/1/2024 15:12	43104	SMIL_T2	1	5	4	0.2	0	-0.2	-0.13	-0.14	1	1	0	300	300	0
8/1/2024 15:12	20403	ASHF_T2	44	91	47	0.66	0.58	-0.08	1.26	1.33	0	0	0	0	0	0
8/1/2024 15:12	20401	ASHF_T2	7	14	7	1.59	0.84	-0.75	0	0	0	0	0	0	0	0
8/1/2024 15:13	43104	SMIL_T2	1	5	4	0.2	0	-0.2	-0.13	-0.14	1	1	0	300	300	0
8/1/2024 15:13	43102	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 15:13	43108	SMIL_T2	5	12	7	0.32	0.63	0.31	0	0	0	0	0	0	0	0
8/1/2024 15:13	43103	SMIL_T2	1	3	2	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/1/2024 15:13	43101	SMIL_T2	8	54	46	0.61	0.66	0.05	0	0	0	0	0	0	0	0
8/1/2024 15:15	45502	DERR_T2	53	30	-23	0.58	0.44	-0.14	0	0	0	0	0	0	0	0
8/1/2024 15:15	45501	DERR_T2	37	28	-9	0.68	0.48	-0.2	1.72	1.61	2	2	0	1800	1800	0
8/1/2024 15:16	40101	HUNT_T2	9	10	1	0.36	0.51	0.15	-0.98	-1	0	0	0	0	0	0
8/1/2024 15:18	44701	MUNC_T2	0	4	4	0	0.7	0.7	0	0	0	0	0	0	0	0
8/1/2024 15:18	44703	MUNC_T2	16	19	3	0.86	0.67	-0.19	1.59	1.57	0	0	0	0	0	0
8/1/2024 15:18	51401	LYKE_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
8/1/2024 15:18	44702	MUNC_T2	6	1	-5	0.72	0	-0.72	0	0	0	0	0	0	0	0
8/1/2024 15:23	45303	WBER_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/1/2024 15:23	45302	WBER_T2	9	18	9	0.44	0.49	0.05	1.76	1.75	0	0	0	0	0	0
8/1/2024 15:25	45303	WBER_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/1/2024 15:25	43101	SMIL_T2	23	54	31	0.66	0.68	0.02	0	0	0	0	0	0	0	0
8/1/2024 15:25	45302	WBER_T2	9	18	9	0.44	0.49	0.05	1.76	1.75	0	0	0	0	0	0
8/1/2024 15:25	43104	SMIL_T2	0	5	5	0	0.87	0.87	-0.14	-0.12	1	1	0	300	300	0
8/1/2024 15:25	43108	SMIL_T2	8	12	4	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
8/1/2024 15:25	43103	SMIL_T2	3	1	-2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/1/2024 15:28	60502	NMAN_T2	192	0	-192	1.65	0	-1.65	0.54	0.55	0	0	0	0	0	0
8/1/2024 15:29	47403	PENS_T1	2	1	-1	1	1.6	0.6	0	0	0	0	0	0	0	0
8/1/2024 15:29	47401	PENS_T1	4	3	-1	1.33	0.93	-0.4	0.73	0.77	0	0	0	0	0	0
8/1/2024 15:30	53601	DALM_T2	0	1	1	0	0.5	0.5	-1.24	-0.85	2	2	0	1500	1500	0
8/1/2024 15:31	46203	DANV_T2	5	32	27	0.54	0.51	-0.03	-0.48	-0.47	0	0	0	0	0	0
8/1/2024 15:31	46204	DANV_T2	100	122	22	0.47	0.56	0.09	0	0	0	0	0	0	0	0
8/1/2024 15:31	46206	DANV_T2	58	61	3	0.62	0.56	-0.06	0	0	0	0	0	0	0	0
8/1/2024 15:31	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 15:33	40101	HUNT_T2	9	16	7	0.52	0.62	0.1	-1	-1.18	0	0	0	0	0	0
8/1/2024 15:35	47101	MARL_T1	371	399	28	1	0.96	-0.04	-0.15	-0.16	1	1	0	600	600	0
8/1/2024 15:35	44203	POIN_T2	5	5	0	1.58	0.25	-1.33	0	0	0	0	0	0	0	0
8/1/2024 15:35	44202	POIN_T2	1	1	0	2	0.9	-1.1	-0.01	-0.05	1	1	0	1200	1200	0
8/1/2024 15:35	47104	MARL_T1	18	17	-1	0.53	0.45	-0.08	0	0	0	0	0	0	0	0
8/1/2024 15:37	47401	PENS_T1	3	4	1	1.13	0.93	-0.2	0.77	0.86	0	0	0	0	0	0
8/1/2024 15:37	47403	PENS_T1	1	2	1	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
8/1/2024 15:38	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/1/2024 15:39	47401	PENS_T1	3	4	1	1.13	0.93	-0.2	0.77	0.86	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/1/2024 15:39	47403	PENS_T1	1	2	1	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
8/1/2024 15:41	40201	BEGA_T2	23	24	1	0.72	0.79	0.07	0	0	0	0	0	0	0	0
8/1/2024 15:43	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/1/2024 15:48	65603	QVIL_T2	0	0	0	0	0	0	1.17	1.28	0	0	0	0	0	0
8/1/2024 15:48	42901	MIDD_T2	31	45	14	0.73	0.84	0.11	0	0	0	0	0	0	0	0
8/1/2024 15:48	42903	MIDD_T2	6	6	0	0.57	0.47	-0.1	0	0	0	0	0	0	0	0
8/1/2024 15:48	42902	MIDD_T2	29	31	2	2.35	1.97	-0.38	-0.33	-0.38	1	1	0	600	600	0
8/1/2024 15:49	42903	MIDD_T2	6	6	0	0.57	0.47	-0.1	0	0	0	0	0	0	0	0
8/1/2024 15:49	42902	MIDD_T2	29	31	2	2.35	1.97	-0.38	-0.33	-0.38	1	1	0	600	600	0
8/1/2024 15:49	42901	MIDD_T2	31	45	14	0.73	0.84	0.11	0	0	0	0	0	0	0	0
8/1/2024 15:55	47401	PENS_T1	3	4	1	0.93	0.95	0.02	0.86	0.85	0	0	0	0	0	0
8/1/2024 15:55	47403	PENS_T1	1	2	1	0.8	1.1	0.3	0	0	0	0	0	0	0	0
8/1/2024 16:00	24101	EHAZ_T1	26	40	14	1.57	2.88	1.31	0	0	0	0	0	0	0	0
8/1/2024 16:00	24102	EHAZ_T1	3	22	19	0.33	0.83	0.5	0.24	0.18	0	0	0	0	0	0
8/1/2024 16:00	24105	EHAZ_T1	4	4	0	6.73	6.93	0.2	0	0	0	0	0	0	0	0
8/1/2024 16:03	58401	MORO_T1	0	0	0	0	0	0	-0.6	-0.61	2	2	0	1500	1500	0
8/1/2024 16:03	58402	MORO_T1	2	5	3	0.3	0.57	0.27	0	0	0	0	0	0	0	0
8/1/2024 16:08	67303	WYOM_T2	0	0	0	0	0	0	0.47	0.51	0	0	0	0	0	0
8/1/2024 16:09	42701	AUGU_T1	1	31	30	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
8/1/2024 16:09	67303	WYOM_T2	0	0	0	0	0	0	0.47	0.51	0	0	0	0	0	0
8/1/2024 16:13	43104	SMIL_T2	3	6	3	0.77	0.23	-0.54	-0.05	-0.11	1	1	0	300	300	0
8/1/2024 16:13	43108	SMIL_T2	9	8	-1	0.46	0.2	-0.26	0	0	0	0	0	0	0	0
8/1/2024 16:13	24001	WIBA_T1	17	17	0	1.32	1.62	0.3	-0.06	-0.15	0	0	0	0	0	0
8/1/2024 16:13	43103	SMIL_T2	1	5	4	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
8/1/2024 16:13	43101	SMIL_T2	26	41	15	0.95	0.75	-0.2	0	0	0	0	0	0	0	0
8/1/2024 16:13	42701	AUGU_T1	1	31	30	0.4	0.35	-0.05	0	0	2	2	0	1800	1800	0
8/1/2024 16:13	24004	WIBA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 16:14	60901	DONG_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
8/1/2024 16:14	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 16:14	60904	DONG_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/1/2024 16:19	22805	HAUT_T2	85	153	68	1.2	0.92	-0.28	-0.86	-0.85	1	1	0	1200	1200	0
8/1/2024 16:19	22803	HAUT_T2	71	78	7	1.25	1.57	0.32	0	0	0	0	0	0	0	0
8/1/2024 16:26	44801	EDAN_T2	8	39	31	0.7	0.58	-0.12	0	0	0	0	0	0	0	0
8/1/2024 16:26	44802	EDAN_T2	0	0	0	0	0	0	-1.14	-1.15	0	0	0	0	0	0
8/1/2024 16:27	43104	SMIL_T2	6	8	2	0.37	0.25	-0.12	-0.11	-0.12	1	1	0	300	300	0
8/1/2024 16:27	44802	EDAN_T2	0	0	0	0	0	0	-1.14	-1.15	0	0	0	0	0	0
8/1/2024 16:27	43101	SMIL_T2	37	46	9	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
8/1/2024 16:27	43108	SMIL_T2	8	5	-3	0.74	0	-0.74	0	0	0	0	0	0	0	0
8/1/2024 16:27	43103	SMIL_T2	3	5	2	0.27	0.5	0.23	0	0	0	0	0	0	0	0
8/1/2024 16:27	44801	EDAN_T2	8	39	31	0.7	0.58	-0.12	0	0	0	0	0	0	0	0
8/1/2024 16:28	43103	SMIL_T2	3	5	2	0.27	0.5	0.23	0	0	0	0	0	0	0	0
8/1/2024 16:28	44802	EDAN_T2	0	0	0	0	0	0	-1.14	-1.15	0	0	0	0	0	0
8/1/2024 16:28	43101	SMIL_T2	37	46	9	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
8/1/2024 16:28	44801	EDAN_T2	8	39	31	0.7	0.58	-0.12	0	0	0	0	0	0	0	0
8/1/2024 16:28	43104	SMIL_T2	6	8	2	0.37	0.25	-0.12	-0.11	-0.12	1	1	0	300	300	0
8/1/2024 16:28	43108	SMIL_T2	8	5	-3	0.74	0	-0.74	0	0	0	0	0	0	0	0
8/1/2024 16:30	44801	EDAN_T2	20	30	10	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
8/1/2024 16:30	44802	EDAN_T2	0	0	0	0	0	0	-2.28	-2.29	0	0	0	0	0	0
8/1/2024 16:34	42903	MIDD_T2	2	5	3	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
8/1/2024 16:34	42902	MIDD_T2	29	29	0	2.16	0.72	-1.44	-0.47	-0.5	1	1	0	600	600	0
8/1/2024 16:34	42901	MIDD_T2	11	53	42	0.75	0.73	-0.02	0	0	0	0	0	0	0	0
8/1/2024 16:39	47104	MARL_T1	13	19	6	0.47	0.44	-0.03	0	0	0	0	0	0	0	0
8/1/2024 16:39	47101	MARL_T1	531	752	221	1.04	1.1	0.06	-0.11	-0.11	1	1	0	600	600	0
8/1/2024 16:41	41602	CLEV_T1	185	175	-10	1.22	0.98	-0.24	0	0	1	1	0	600	600	0
8/1/2024 16:42	64101	REFR_T1	0	0	0	0	0	0	1.66	-0.03	0	0	0	0	0	0
8/1/2024 16:44	64101	REFR_T1	0	0	0	0	0	0	0.83	-0.02	0	0	0	0	0	0
8/1/2024 16:48	64305	LINC_T1	1	1	0	0.3	0	-0.3	-0.2	-0.19	0	0	0	0	0	0
8/1/2024 16:49	43201	MVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/1/2024 16:49	43202	MVIL_T2	1	1	0	0.8	0	-0.8	-0.21	-0.26	0	0	0	0	0	0
8/1/2024 16:50	43202	MVIL_T2	1	1	0	0.8	0	-0.8	-0.21	-0.26	0	0	0	0	0	0
8/1/2024 16:50	43201	MVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/1/2024 16:52	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
8/1/2024 16:55	54203	PENN_T1	18	17	-1	0.58	0.34	-0.24	0.56	0.54	1	1	0	600	600	0
8/1/2024 16:55	54201	PENN_T1	15	11	-4	0.43	0.46	0.03	0	0	0	0	0	0	0	0
8/1/2024 16:56	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
8/1/2024 16:59	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
8/1/2024 17:12	44301	BEAV_T2	77	105	28	0.62	0.55	-0.07	0	0	0	0	0	0	0	0
8/1/2024 17:15	53901	HALI_T2	1	1	0	2.5	0	-2.5	0	0	0	0	0	0	0	0
8/1/2024 17:15	53902	HALI_T2	3	8	5	1.2	0.88	-0.32	-0.47	-0.5	0	0	0	0	0	0
8/1/2024 17:17	53901	HALI_T2	1	1	0	2.5	0	-2.5	0	0	0	0	0	0	0	0
8/1/2024 17:17	53902	HALI_T2	3	8	5	1.2	0.88	-0.32	-0.47	-0.5	0	0	0	0	0	0
8/1/2024 17:17	27201	YATE_T1	2	20	18	0.4	0.55	0.15	-0.19	-0.17	0	0	0	0	0	0
8/1/2024 17:17	27205	YATE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/1/2024 17:18	64204	KINZ_T1	2	6	4	0.7	0.87	0.17	0	0	0	0	0	0	0	0
8/1/2024 17:18	53901	HALI_T2	1	1	0	2.5	0	-2.5	0	0	0	0	0	0	0	0
8/1/2024 17:18	64203	KINZ_T1	0	2	2	0	0	0	-0.74	-1.13	3	3	0	2100	2100	0
8/1/2024 17:18	53902	HALI_T2	3	8	5	1.2	0.88	-0.32	-0.23	-0.25	0	0	0	0	0	0
8/1/2024 17:18	64202	KINZ_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 17:18	64201	KINZ_T1	1	6	5	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/1/2024 17:21	47104	MARL_T1	23	22	-1	1.04	0.3	-0.74	0	0	0	0	0	0	0	0
8/1/2024 17:21	47101	MARL_T1	695	561	-134	1.21	1.05	-0.16	-0.06	-0.09	1	1	0	600	600	0
8/1/2024 17:21	65503	MOJO_T2	0	6	6	0	0.2	0.2	0.21	0.22	1	1	0	900	900	0
8/1/2024 17:22	56501	ROCK_T2	12	10	-2	0.59	0.61	0.02	-3.46	-3.47	0	0	0	0	0	0
8/1/2024 17:22	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 17:22	56504	ROCK_T2	6	13	7	0.42	0.36	-0.06	0	0	0	0	0	0	0	0
8/1/2024 17:23	56504	ROCK_T2	6	13	7	0.42	0.36	-0.06	0	0	0	0	0	0	0	0
8/1/2024 17:23	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 17:23	56501	ROCK_T2	12	10	-2	0.59	0.61	0.02	-1.73	-1.74	0	0	0	0	0	0
8/1/2024 17:24	56501	ROCK_T2	12	10	-2	0.59	0.61	0.02	-1.73	-1.74	0	0	0	0	0	0
8/1/2024 17:24	56504	ROCK_T2	6	13	7	0.42	0.36	-0.06	0	0	0	0	0	0	0	0
8/1/2024 17:24	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 17:24	64101	REFR_T1	95	127	32	0.53	0.52	-0.01	-0.07	-0.08	0	0	0	0	0	0
8/1/2024 17:25	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 17:25	56501	ROCK_T2	12	10	-2	0.59	0.61	0.02	-1.73	-1.74	0	0	0	0	0	0
8/1/2024 17:25	56504	ROCK_T2	6	13	7	0.42	0.36	-0.06	0	0	0	0	0	0	0	0
8/1/2024 17:29	64101	REFR_T1	95	127	32	0.53	0.52	-0.01	-0.07	-0.08	0	0	0	0	0	0
8/1/2024 17:30	63803	HEMP_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
8/1/2024 17:30	63804	HEMP_T1	1	2	1	8.3	8.4	0.1	0	0	0	0	0	0	0	0
8/1/2024 17:30	63801	HEMP_T1	0	0	0	0	0	0	-0.43	-0.72	1	1	0	900	900	0
8/1/2024 17:32	63801	HEMP_T1	0	0	0	0	0	0	-0.86	-1.44	2	2	0	1800	1800	0
8/1/2024 17:32	63803	HEMP_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
8/1/2024 17:32	63804	HEMP_T1	1	2	1	8.3	8.4	0.1	0	0	0	0	0	0	0	0
8/1/2024 17:33	63801	HEMP_T1	0	0	0	0	0	0	-0.43	-0.72	1	1	0	900	900	0
8/1/2024 17:33	63804	HEMP_T1	1	2	1	8.3	8.4	0.1	0	0	0	0	0	0	0	0
8/1/2024 17:33	46901	MNTG_T2	0	0	0	0	0	0	-0.31	-0.43	1	1	0	1200	1200	0
8/1/2024 17:33	46903	MNTG_T2	5	5	0	0.72	0.48	-0.24	0	0	0	0	0	0	0	0
8/1/2024 17:33	64101	REFR_T1	114	135	21	0.54	0.56	0.02	-0.07	-0.08	0	0	0	0	0	0
8/1/2024 17:33	63803	HEMP_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
8/1/2024 17:34	58401	MORO_T1	2	3	1	1	1.3	0.3	0	0	0	0	0	0	0	0
8/1/2024 17:34	64101	REFR_T1	114	135	21	0.54	0.56	0.02	-0.07	-0.08	0	0	0	0	0	0
8/1/2024 17:34	63804	HEMP_T1	1	2	1	8.3	8.4	0.1	0	0	0	0	0	0	0	0
8/1/2024 17:34	63803	HEMP_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
8/1/2024 17:34	43301	WATS_T2	1	14	13	0.6	0.57	-0.03	0	0	0	1	1	0	900	900
8/1/2024 17:34	43304	WATS_T2	13	26	13	0.39	0.51	0.12	0	0	0	0	0	0	0	0
8/1/2024 17:34	58402	MORO_T1	35	38	3	0.75	0.86	0.11	0.19	-0.07	4	5	1	2850	3150	300
8/1/2024 17:34	63801	HEMP_T1	0	0	0	0	0	0	-0.43	-0.72	1	1	0	900	900	0
8/1/2024 17:35	47001	HUGH_T2	3	5	2	5.73	4.08	-1.65	-0.52	-0.55	1	1	0	900	900	0
8/1/2024 17:36	64101	REFR_T1	114	135	21	0.54	0.56	0.02	-0.08	-0.12	0	0	0	0	0	0
8/1/2024 17:37	48301	ORWI_T1	15	8	-7	0.51	0.78	0.27	1.19	1.15	0	0	0	0	0	0
8/1/2024 17:38	53501	EVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/1/2024 17:38	53502	EVIL_T2	0	0	0	0	0	0	-0.01	0	2	2	0	1500	1500	0
8/1/2024 17:38	64101	REFR_T1	114	135	21	0.54	0.56	0.02	-0.42	-0.62	0	0	0	0	0	0
8/1/2024 17:39	64101	REFR_T1	114	135	21	0.54	0.56	0.02	-0.08	-0.12	0	0	0	0	0	0
8/1/2024 17:40	61402	SLIT_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 17:40	64101	REFR_T1	114	135	21	0.54	0.56	0.02	-0.08	-0.12	0	0	0	0	0	0
8/1/2024 17:40	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 17:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 17:42	44801	EDAN_T2	3	3	0	0.93	1.4	0.47	-0.91	-0.94	0	0	0	0	0	0
8/1/2024 17:42	40502	CRES_T2	12	9	-3	0.18	0.27	0.09	-0.89	-0.92	0	0	0	0	0	0
8/1/2024 17:43	61701	ELIZ_T1	1	1	0	2	1.5	-0.5	1.37	1.29	0	0	0	0	0	0
8/1/2024 17:43	40502	CRES_T2	12	9	-3	0.18	0.27	0.09	-0.89	-0.92	0	0	0	0	0	0
8/1/2024 17:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 17:44	40502	CRES_T2	12	9	-3	0.18	0.27	0.09	-0.89	-0.92	0	0	0	0	0	0
8/1/2024 17:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 17:45	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 17:45	40502	CRES_T2	3	11	8	0.23	0.32	0.09	-0.89	-0.92	0	0	0	0	0	0
8/1/2024 17:50	65401	MARI_T1	17	17	0	5.16	4.97	-0.19	0	0	0	0	0	0	0	0
8/1/2024 17:50	65402	MARI_T1	4	6	2	0.58	0.63	0.05	0	0	0	0	0	0	0	0
8/1/2024 17:56	22002	BOHE_T1	1	0	-1	0.2	0	-0.2	0.94	0.81	0	0	0	0	0	0
8/1/2024 17:56	61505	EPET_T1	0	0	0	0	0	0	0.86	0.88	0	0	0	0	0	0
8/1/2024 17:58	67605	WARW_T1	1	1	0	1.7	1.5	-0.2	-0.2	-0.18	0	0	0	0	0	0
8/1/2024 18:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 18:00	40502	CRES_T2	6	11	5	0.27	0.32	0.05	-0.92	-0.99	0	0	0	0	0	0
8/1/2024 18:01	40502	CRES_T2	6	11	5	0.27	0.32	0.05	-0.92	-0.99	0	0	0	0	0	0
8/1/2024 18:01	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 18:02	22903	HARW_T1	22	20	-2	1.21	0.86	-0.35	0	0	0	0	0	0	0	0
8/1/2024 18:02	22905	HARW_T1	14	35	21	0.55	0.54	-0.01	0	0	0	0	0	0	0	0
8/1/2024 18:02	22901	HARW_T1	30	40	10	0.42	0.52	0.1	0.11	0.01	1	1	0	1200	1200	0
8/1/2024 18:03	22905	HARW_T1	14	35	21	0.55	0.54	-0.01	0	0	0	0	0	0	0	0
8/1/2024 18:03	22901	HARW_T1	30	40	10	0.42	0.52	0.1	0.11	0.01	1	1	0	1200	1200	0
8/1/2024 18:03	67503	WEWI_T2	2	8	6	0.45	1	0.55	0.23	0.23	0	0	0	0	0	0
8/1/2024 18:03	22903	HARW_T1	22	20	-2	1.21	0.86	-0.35	0	0	0	0	0	0	0	0
8/1/2024 18:03	67502	WEWI_T2	141	130	-11	1.14	0.88	-0.26	0	0	0	0	0	0	0	0
8/1/2024 18:04	58203	NEWV_T2	185	175	-10	2.63	2.38	-0.25	-0.59	-0.59	0	0	0	0	0	0
8/1/2024 18:05	22905	HARW_T1	14	35	21	0.55	0.54	-0.01	0	0	0	0	0	0	0	0
8/1/2024 18:05	22901	HARW_T1	30	40	10	0.42	0.52	0.1	0.11	0.01	1	1	0	1200	1200	0
8/1/2024 18:05	22903	HARW_T1	22	20	-2	1.21	0.86	-0.35	0	0	0	0	0	0	0	0
8/1/2024 18:06	46101	MACI_T2	0	0	0	0	0	0	0.86	0.86	0	0	0	0	0	0
8/1/2024 18:09	66903	SHIL_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
8/1/2024 18:09	66902	SHIL_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 18:10	58803	COCO_T1	20	26	6	0.46	0.54	0.08	-0.23	-0.19	1	1	0	600	600	0
8/1/2024 18:11	66903	SHIL_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
8/1/2024 18:11	66902	SHIL_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/1/2024 18:15	45501	DERR_T2	39	21	-18	0.61	0.7	0.09	0.8	0.75	2	2	0	1800	1800	0
8/1/2024 18:15	45502	DERR_T2	2	2	0	0.7	1	0.3	0	0	0	0	0	0	0	0
8/1/2024 18:15	61702	ELIZ_T2	0	6	6	0	0.36	0.36	-1.03	-1.03	2	2	0	1500	1500	0
8/1/2024 18:15	61704	ELIZ_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 18:16	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/1/2024 18:16	51602	DUKE_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/1/2024 18:17	45501	DERR_T2	39	21	-18	0.61	0.7	0.09	0.8	0.75	2	2	0	1800	1800	0
8/1/2024 18:17	45502	DERR_T2	2	2	0	0.7	1	0.3	0	0	0	0	0	0	0	0
8/1/2024 18:17	43202	MVIL_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
8/1/2024 18:25	58705	ROSE_T2	2	3	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/1/2024 18:25	58701	ROSE_T2	2	2	0	0.1	0	-0.1	-0.08	-0.09	1	1	0	600	600	0
8/1/2024 18:25	58706	ROSE_T2	1	3	2	1.7	5.23	3.53	0	0	0	0	0	0	0	0
8/1/2024 18:26	43301	WATS_T2	8	6	-2	0.43	0.38	-0.05	0.66	0.93	1	1	0	900	900	0
8/1/2024 18:26	43304	WATS_T2	27	37	10	0.57	0.7	0.13	0	0	0	0	0	0	0	0
8/1/2024 18:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 18:28	40502	CRES_T2	11	7	-4	0.32	0.26	-0.06	-0.99	-1.05	0	0	0	0	0	0
8/1/2024 18:30	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 18:30	40502	CRES_T2	7	17	10	0.26	0.27	0.01	-3.95	-4.21	0	0	0	0	0	0
8/1/2024 18:31	43301	WATS_T2	6	2	-4	0.38	0.8	0.42	0.66	0.93	1	1	0	900	900	0
8/1/2024 18:31	43304	WATS_T2	24	37	13	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
8/1/2024 18:32	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 18:32	40502	CRES_T2	7	17	10	0.26	0.27	0.01	0	0	0	0	0	0	0	0
8/1/2024 18:33	63804	HEMP_T1	1	1	0	7.4	7.1	-0.3	-0.99	-0.99	0	0	0	0	0	0
8/1/2024 18:33	63803	HEMP_T1	1	2	1	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
8/1/2024 18:36	56503	ROCK_T2	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
8/1/2024 18:36	56504	ROCK_T2	13	20	7	0.49	0.44	-0.05	-0.19	-0.22	0	0	0	0	0	0
8/1/2024 18:36	56501	ROCK_T2	10	14	4	1.33	0.54	-0.79	0	0	0	0	0	0	0	0
8/1/2024 18:38	65902	SAKR_T2	5	6	1	0.56	0.78	0.22	-0.73	-0.73	2	2	0	1200	1200	0
8/1/2024 18:38	65901	SAKR_T2	4	3	-1	1.6	5.5	3.9	0	0	0	0	0	0	0	0
8/1/2024 18:38	65903	SAKR_T2	1	1	0	1.6	2	0.4	0	0	0	0	0	0	0	0
8/1/2024 18:41	44301	BEAV_T2	48	22	-26	0.56	0.42	-0.14	0.18	0.17	1	1	0	600	600	0
8/1/2024 18:43	44301	BEAV_T2	48	22	-26	0.56	0.42	-0.14	0.18	0.17	1	1	0	600	600	0
8/1/2024 18:47	23401	HONE_T2	56	71	15	0.48	0.41	-0.07	0.13	0.15	0	0	0	0	0	0
8/1/2024 18:51	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/1/2024 18:51	51004	NHAR_T1	8	9	1	1.08	1.27	0.19	-0.29	-0.27	0	0	0	0	0	0
8/1/2024 18:51	65205	PRIN_T1	1	2	1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/1/2024 18:51	51003	NHAR_T1	9	9	0	1.49	0.73	-0.76	0	0	0	0	0	0	0	0
8/1/2024 18:53	51003	NHAR_T1	9	9	0	1.49	0.73	-0.76	0	0	0	0	0	0	0	0
8/1/2024 18:53	51004	NHAR_T1	8	9	1	1.08	1.27	0.19	-0.27	-0.31	0	0	0	0	0	0
8/1/2024 18:56	67103	SPRI_T1	0	0	0	0	0	0	-0.29	-0.33	0	0	0	0	0	0
8/1/2024 18:59	61701	ELIZ_T1	3	2	-1	0.8	1.2	0.4	0	0	0	0	0	0	0	0
8/1/2024 18:59	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 19:01	43104	SMIL_T2	0	0	0	0	0	0	-0.22	-0.37	0	2	2	0	600	600
8/1/2024 19:01	43102	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/1/2024 19:01	43105	SMIL_T2	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
8/1/2024 19:01	43101	SMIL_T2	2	4	2	0.5	0.5	0	0	0	0	0	0	0	0	0
8/1/2024 19:05	43104	SMIL_T2	0	0	0	0	0	0	-0.11	-0.18	0	1	1	0	300	300
8/1/2024 19:05	43105	SMIL_T2	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
8/1/2024 19:05	43101	SMIL_T2	2	4	2	0.5	0.5	0	0	0	0	0	0	0	0	0
8/1/2024 19:05	43102	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/1/2024 19:06	44905	SCOT_T1	14	10	-4	0.39	0.67	0.28	0	0	0	0	0	0	0	0
8/1/2024 19:07	46101	MACI_T2	0	0	0	0	0	0	0.87	0.86	0	0	0	0	0	0
8/1/2024 19:13	51902	COPA_T1	0	0	0	0	0	0	-0.73	-0.77	1	1	0	1200	1200	0
8/1/2024 19:13	51906	COPA_T1	3	1	-2	0.23	0	-0.23	0	0	0	0	0	0	0	0
8/1/2024 19:14	51902	COPA_T1	0	0	0	0	0	0	-0.73	-0.77	1	1	0	1200	1200	0
8/1/2024 19:14	51906	COPA_T1	3	1	-2	0.23	0	-0.23	0	0	0	0	0	0	0	0
8/1/2024 19:16	43105	SMIL_T2	3	1	-2	0.2	0.2	0	0	0	0	0	0	0	0	0
8/1/2024 19:16	43101	SMIL_T2	4	9	5	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
8/1/2024 19:16	43104	SMIL_T2	1	0	-1	1	0	-1	-0.18	-0.22	1	1	0	300	300	0
8/1/2024 19:23	55003	NEWP_T2	0	0	0	0	0	0	-0.57	-0.59	1	1	0	600	600	0
8/1/2024 19:37	67703	WERN_T2	1	1	0	0.2	0	-0.2	-0.01	-0.01	1	1	0	900	900	0
8/1/2024 19:52	22701	MINO_T1	0	0	0	0	0	0	-0.09	-0.14	1	1	0	600	600	0
8/1/2024 20:17	16902	MECK_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
8/1/2024 20:20	42801	SELI_T1	0	0	0	0	0	0	-0.06	-0.1	1	1	0	1200	1200	0
8/1/2024 20:22	16902	MECK_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
8/1/2024 20:25	16902	MECK_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
8/1/2024 20:28	63403	HONY_T2	308	236	-72	5.85	7.06	1.21	-0.01	-0.01	0	0	0	0	0	0
8/1/2024 20:33	42302	MOWR_T2	0	0	0	0	0	0	0.93	1	0	0	0	0	0	0
8/1/2024 20:35	63403	HONY_T2	237	190	-47	6.46	0	-6.46	-0.01	-0.01	0	0	0	0	0	0
8/1/2024 20:58	60101	COCA_T1	0	0	0	0	0	0	-0.19	-0.22	1	1	0	1200	1200	0
8/1/2024 21:00	63401	HONY_T1	0	0	0	0	0	0	-0.24	0.31	1	1	0	600	600	0
8/1/2024 21:04	60101	COCA_T1	0	0	0	0	0	0	-0.19	-0.22	1	1	0	1200	1200	0
8/1/2024 21:28	42802	SELI_T1	0	0	0	0	0	0	-0.81	-0.71	0	0	0	0	0	0
8/1/2024 21:38	42201	SHEN_T2	0	0	0	0	0	0	0.32	0.32	1	1	0	600	600	0
8/1/2024 21:39	42802	SELI_T1	0	0	0	0	0	0	-0.71	-0.78	0	0	0	0	0	0
8/1/2024 21:42	45402	WBLO_T2	1	2	1	0.2	0.3	0.1	-0.9	-0.95	1	1	0	900	900	0
8/1/2024 21:52	58706	ROSE_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
8/1/2024 21:52	58701	ROSE_T2	0	0	0	0	0	0	-0.33	-0.34	1	1	0	600	600	0
8/1/2024 21:52	58705	ROSE_T2	5	0	-5	1.66	1.42	-0.24	0	0	0	0	0	0	0	0
8/1/2024 21:52	58702	ROSE_T2	6	0	-6	0.14	0	-0.14	0	0	0	0	0	0	0	0
8/1/2024 21:52	61102	BERK_T5	0	0	0	0	0	0	0.36	0.31	1	1	0	300	300	0
8/1/2024 21:54	25603	ARRO_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
8/1/2024 22:03	23201	HIRU_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 22:03	23202	HIRU_T2	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
8/1/2024 22:04	15604	NSTR_T1	0	11	11	0	0.15	0.15	-0.37	-0.37	0	0	0	0	0	0
8/1/2024 22:06	16402	MOPO_T1	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
8/1/2024 22:06	64302	LINC_T2	3	4	1	0.87	0.53	-0.34	1.65	1.59	0	0	0	0	0	0
8/1/2024 22:07	52403	GRPA_T2	12	33	21	0.85	0.71	-0.14	0	0	0	0	0	0	0	0
8/1/2024 22:07	52402	GRPA_T2	8	5	-3	0.7	0.3	-0.4	-0.42	-0.45	0	0	0	0	0	0
8/1/2024 22:07	52401	GRPA_T2	1	14	13	0.4	0.43	0.03	0	0	0	0	0	0	0	0
8/1/2024 22:07	52404	GRPA_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/1/2024 22:10	60701	BREC_T1	0	0	0	0	0	0	0.07	0.05	1	1	0	600	600	0
8/1/2024 22:10	65604	QVIL_T2	0	0	0	0	0	0	0.91	0.86	0	0	0	0	0	0
8/1/2024 22:11	41902	REED_T1	2	66	64	0.35	0.4	0.05	0.65	0.62	1	1	0	900	900	0
8/1/2024 22:11	41901	REED_T1	8	2	-6	1	0.1	-0.9	0	0	0	0	0	0	0	0
8/1/2024 22:11	13503	MCMI_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
8/1/2024 22:12	29401	BELT_T1	0	0	0	0	0	0	0	1	1	1	0	900	900	0
8/1/2024 22:12	57601	RUTH_T2	0	0	0	0	0	0	-0.64	-0.71	1	1	0	900	900	0
8/1/2024 22:12	29402	BELT_T1	1	1	0	8	7.4	-0.6	0	0	0	0	0	0	0	0
8/1/2024 22:12	25402	LAHA_T2	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
8/1/2024 22:12	13503	MCMI_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
8/1/2024 22:13	20601	GRWO_T2	209	186	-23	1.05	0.88	-0.17	1.05	0.96	0	0	0	0	0	0
8/1/2024 22:13	22002	BOHE_T1	0	0	0	0	0	0	0.57	0.54	0	0	0	0	0	0
8/1/2024 22:13	40502	CRES_T2	5	4	-1	0.34	0.1	-0.24	-0.52	-0.57	0	0	0	0	0	0
8/1/2024 22:13	64202	KINZ_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/1/2024 22:13	46301	ROHR_T1	3	55	52	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
8/1/2024 22:13	24102	EHAZ_T1	1	3	2	2.3	0.83	-1.47	0.16	0.18	0	0	0	0	0	0
8/1/2024 22:13	24101	EHAZ_T1	21	22	1	1.13	1	-0.13	0	0	0	0	0	0	0	0
8/1/2024 22:13	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:13	64204	KINZ_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/1/2024 22:13	46302	ROHR_T1	4	4	0	0.98	1.4	0.42	0.43	0.39	0	0	0	0	0	0
8/1/2024 22:13	24105	EHAZ_T1	4	4	0	6.68	6.68	0	0	0	0	0	0	0	0	0
8/1/2024 22:13	64201	KINZ_T1	1	1	0	0.2	0.3	0.1	-0.74	-0.25	4	3	-1	2100	1500	-600
8/1/2024 22:13	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:13	43402	BENT_T1	0	0	0	0	0	0	-0.74	-0.75	1	1	0	900	900	0
8/1/2024 22:14	61102	BERK_T5	0	0	0	0	0	0	0.31	0.16	1	1	0	300	300	0
8/1/2024 22:14	54201	PENN_T1	30	4	-26	0.42	0.8	0.38	-1.58	-1.63	0	0	0	0	0	0
8/1/2024 22:14	40502	CRES_T2	5	4	-1	0.34	0.1	-0.24	-0.52	-0.57	0	0	0	0	0	0
8/1/2024 22:14	55101	WERT_T1	0	0	0	0	0	0	-2.17	-2.25	4	4	0	3300	3300	0
8/1/2024 22:14	63804	HEMP_T1	1	1	0	7.2	6.8	-0.4	0	0	0	0	0	0	0	0
8/1/2024 22:14	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:14	54203	PENN_T1	18	5	-13	0.59	0.7	0.11	0	0	0	0	0	0	0	0
8/1/2024 22:15	45303	WBER_T2	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
8/1/2024 22:15	40603	PIGR_T1	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
8/1/2024 22:15	47001	HUGH_T2	5	5	0	4.76	4.76	0	-1.2	-1.17	1	1	0	900	900	0
8/1/2024 22:15	65001	NEFF_T2	0	0	0	0	0	0	-0.15	-0.28	1	1	0	1200	1200	0
8/1/2024 22:15	47002	HUGH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 22:15	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:15	45302	WBER_T2	0	0	0	0	0	0	1.45	1.4	0	0	0	0	0	0
8/1/2024 22:15	20601	GRWO_T2	186	184	-2	0.96	0.89	-0.07	1.05	0.96	0	0	0	0	0	0
8/1/2024 22:15	40602	PIGR_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/1/2024 22:15	61102	BERK_T5	0	0	0	0	0	0	0.62	0.33	2	2	0	600	600	0
8/1/2024 22:15	46301	ROHR_T1	45	49	4	0.16	0.17	0.01	0.45	0.44	0	0	0	0	0	0
8/1/2024 22:15	46302	ROHR_T1	4	4	0	1.4	1.25	-0.15	0	0	0	0	0	0	0	0
8/1/2024 22:16	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/1/2024 22:16	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 22:16	22901	HARW_T1	13	25	12	0.3	0.34	0.04	-0.24	-0.23	1	1	0	1200	1200	0
8/1/2024 22:16	22905	HARW_T1	24	34	10	1.68	0.68	-1	0	0	0	0	0	0	0	0
8/1/2024 22:16	47001	HUGH_T2	5	5	0	4.76	4.76	0	-1.2	-1.17	1	1	0	900	900	0
8/1/2024 22:16	60902	DONG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 22:16	64201	KINZ_T1	1	0	-1	0.3	0	-0.3	-0.74	-0.25	4	3	-1	2100	1500	-600
8/1/2024 22:16	60901	DONG_T2	7	3	-4	0.61	0.17	-0.44	0	0	0	0	0	0	0	0
8/1/2024 22:16	27201	YATE_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
8/1/2024 22:16	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:16	61702	ELIZ_T2	0	0	0	0	0	0	-1.3	-1.31	2	2	0	1500	1500	0
8/1/2024 22:16	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:16	51304	WIND_T2	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
8/1/2024 22:16	42802	SELI_T1	0	0	0	0	0	0	-0.85	-0.9	0	0	0	0	0	0
8/1/2024 22:16	21206	ECAR_T2	18	11	-7	0.92	4.05	3.13	0.74	0.71	0	0	0	0	0	0
8/1/2024 22:16	65802	RTWN_T2	0	0	0	0	0	0	-0.64	-0.73	0	0	0	0	0	0
8/1/2024 22:16	21202	ECAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:16	40101	HUNT_T2	2	23	21	0.2	0.35	0.15	-1.18	-0.76	0	0	0	0	0	0
8/1/2024 22:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
8/1/2024 22:16	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:16	41602	CLEV_T1	11	5	-6	0.66	0.28	-0.38	0	0	1	1	0	600	600	0
8/1/2024 22:16	22903	HARW_T1	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/1/2024 22:16	64204	KINZ_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/1/2024 22:16	40502	CRES_T2	2	4	2	1.15	0.17	-0.98	-0.52	-0.57	0	0	0	0	0	0
8/1/2024 22:16	47002	HUGH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 22:17	60701	BREC_T1	0	0	0	0	0	0	0.07	0.05	1	1	0	600	600	0
8/1/2024 22:17	63801	HEMP_T1	0	0	0	0	0	0	-0.48	-0.04	1	1	0	900	900	0
8/1/2024 22:17	63804	HEMP_T1	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
8/1/2024 22:17	67603	WARW_T1	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/1/2024 22:17	57702	PAXT_T1	0	0	0	0	0	0	-0.04	-0.17	0	0	0	0	0	0
8/1/2024 22:17	20402	ASHF_T2	6	7	1	0.57	0.37	-0.2	0	0	0	0	0	0	0	0
8/1/2024 22:17	66901	SHIL_T2	101	101	0	0.2	0.22	0.02	-0.76	-0.79	1	1	0	1200	1200	0
8/1/2024 22:17	40301	TAMA_T3	1	2	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/1/2024 22:17	29402	BELT_T1	1	1	0	7	7.6	0.6	0	0	0	0	0	0	0	0
8/1/2024 22:17	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/1/2024 22:17	20403	ASHF_T2	0	0	0	0	0	0	1	0.94	0	0	0	0	0	0
8/1/2024 22:17	40302	TAMA_T3	1	0	-1	0.1	0	-0.1	-0.95	-1.02	0	0	0	0	0	0
8/1/2024 22:17	40502	CRES_T2	2	4	2	1.15	0.17	-0.98	-0.52	-0.57	0	0	0	0	0	0
8/1/2024 22:17	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:17	66902	SHIL_T2	22	21	-1	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
8/1/2024 22:17	52004	LING_T2	2	2	0	5.35	5.45	0.1	0.29	0.26	0	0	0	0	0	0
8/1/2024 22:17	53902	HALI_T2	1	1	0	3.6	3.7	0.1	-0.54	-0.63	0	0	0	0	0	0
8/1/2024 22:17	51401	LYKE_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
8/1/2024 22:17	20401	ASHF_T2	0	3	3	0	0.25	0.25	0	0	0	0	0	0	0	0
8/1/2024 22:17	47401	PENS_T1	1	0	-1	0.2	0	-0.2	0.29	0.23	0	0	0	0	0	0
8/1/2024 22:17	67605	WARW_T1	2	3	1	0.6	0.8	0.2	-0.84	-0.87	0	0	0	0	0	0
8/1/2024 22:18	64302	LINC_T2	4	4	0	1	0.7	-0.3	1.65	1.59	0	0	0	0	0	0
8/1/2024 22:18	55101	WERT_T1	0	0	0	0	0	0	-4.35	-4.51	8	8	0	6600	6600	0
8/1/2024 22:18	60101	COCA_T1	0	0	0	0	0	0	-0.35	-0.4	1	1	0	1200	1200	0
8/1/2024 22:18	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:18	61102	BERK_T5	0	0	0	0	0	0	0.31	0.16	1	1	0	300	300	0
8/1/2024 22:18	66902	SHIL_T2	22	21	-1	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
8/1/2024 22:18	66901	SHIL_T2	101	101	0	0.2	0.22	0.02	0	0	0	0	0	0	0	0
8/1/2024 22:18	52204	DEVO_T2	5	6	1	1.34	0.62	-0.72	0	0	0	0	0	0	0	0
8/1/2024 22:18	52202	DEVO_T2	0	0	0	0	0	0	-1.86	-1.9	0	0	0	0	0	0
8/1/2024 22:18	16402	MOPO_T1	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
8/1/2024 22:18	15604	NSTR_T1	9	9	0	0.14	0.16	0.02	-0.37	-0.42	0	0	0	0	0	0
8/1/2024 22:18	29402	BELT_T1	1	1	0	7	7.6	0.6	0	0	0	0	0	0	0	0
8/1/2024 22:18	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/1/2024 22:18	66903	SHIL_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
8/1/2024 22:19	54201	PENN_T1	4	4	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
8/1/2024 22:19	25501	MADI_T1	3	2	-1	0.53	0	-0.53	0	0	0	0	0	0	0	0
8/1/2024 22:19	25503	MADI_T1	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
8/1/2024 22:19	22905	HARW_T1	24	34	10	1.68	0.68	-1	0	0	0	0	0	0	0	0
8/1/2024 22:19	25603	ARRO_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
8/1/2024 22:19	22901	HARW_T1	13	25	12	0.3	0.34	0.04	-0.24	-0.23	1	1	0	1200	1200	0
8/1/2024 22:19	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/1/2024 22:19	47104	MARL_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/1/2024 22:19	60101	COCA_T1	0	0	0	0	0	0	-0.35	-0.4	1	1	0	1200	1200	0
8/1/2024 22:19	42201	SHEN_T2	0	0	0	0	0	0	0.28	0.27	1	1	0	600	600	0
8/1/2024 22:19	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/1/2024 22:19	54203	PENN_T1	5	8	3	0.7	0.6	-0.1	0.79	0.79	0	0	0	0	0	0
8/1/2024 22:19	61304	EARL_T1	0	14	14	0	0.16	0.16	0	0	0	0	0	0	0	0
8/1/2024 22:19	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0.31	0.27	0	0	0	0	0	0
8/1/2024 22:19	22903	HARW_T1	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/1/2024 22:19	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/1/2024 22:19	47101	MARL_T1	42	46	4	0.87	0.95	0.08	-0.45	-1.69	0	2	2	0	1200	1200
8/1/2024 22:19	29402	BELT_T1	1	1	0	7	7.6	0.6	0	0	0	0	0	0	0	0
8/1/2024 22:19	61701	ELIZ_T1	1	1	0	3.4	3.6	0.2	1.05	1.05	0	0	0	0	0	0
8/1/2024 22:19	53902	HALI_T2	1	1	0	3.6	3.7	0.1	-0.54	-0.63	0	0	0	0	0	0
8/1/2024 22:19	63203	MGTN_T1	0	0	0	0	0	0	0.7	0.73	0	0	0	0	0	0
8/1/2024 22:19	67502	WEWI_T2	0	0	0	0	0	0	-0.96	-0.71	1	1	0	900	900	0
8/1/2024 22:20	64204	KINZ_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/1/2024 22:20	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 22:20	40502	CRES_T2	2	4	2	1.15	0.17	-0.98	-0.52	-0.57	0	0	0	0	0	0
8/1/2024 22:20	20403	ASHF_T2	0	0	0	0	0	0	1	0.94	0	0	0	0	0	0
8/1/2024 22:20	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:20	20401	ASHF_T2	0	3	3	0	0.25	0.25	0	0	0	0	0	0	0	0
8/1/2024 22:20	64201	KINZ_T1	1	0	-1	0.3	0	-0.3	-0.74	-0.25	4	3	-1	2100	1500	-600
8/1/2024 22:20	50701	SMEC_T1	0	0	0	0	0	0	-0.71	-0.95	1	1	0	1200	1200	0
8/1/2024 22:20	48301	ORWI_T1	2	2	0	2.3	1.85	-0.45	0.87	0.84	0	0	0	0	0	0
8/1/2024 22:20	61701	ELIZ_T1	1	1	0	3.4	3.6	0.2	1.05	1.05	0	0	0	0	0	0
8/1/2024 22:20	65604	QVIL_T2	0	0	0	0	0	0	0.91	0.86	0	0	0	0	0	0
8/1/2024 22:20	20402	ASHF_T2	6	7	1	0.57	0.37	-0.2	0	0	0	0	0	0	0	0
8/1/2024 22:21	22905	HARW_T1	24	34	10	1.68	0.68	-1	0	0	0	0	0	0	0	0
8/1/2024 22:21	60502	NMAN_T2	0	0	0	0	0	0	0.35	0.2	0	0	0	0	0	0
8/1/2024 22:21	52002	LING_T2	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
8/1/2024 22:21	67804	WLAN_T1	1	8	7	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/1/2024 22:21	20402	ASHF_T2	6	7	1	0.57	0.37	-0.2	0	0	0	0	0	0	0	0
8/1/2024 22:21	56501	ROCK_T2	3	2	-1	0.1	0.1	0	-1.59	-1.64	0	0	0	0	0	0
8/1/2024 22:21	61102	BERK_T5	0	0	0	0	0	0	0.49	0.37	3	3	0	900	900	0
8/1/2024 22:21	67303	WYOM_T2	0	0	0	0	0	0	-0.71	-0.85	0	0	0	0	0	0
8/1/2024 22:21	67602	WARW_T2	6	6	0	0.3	0	-0.3	1.13	1.15	2	2	0	1500	1500	0
8/1/2024 22:21	43103	SMIL_T2	0	0	0	0	0	0	-0.88	-0.77	0	0	0	0	0	0
8/1/2024 22:21	22901	HARW_T1	13	25	12	0.3	0.34	0.04	-0.24	-0.23	1	1	0	1200	1200	0
8/1/2024 22:21	20601	GRWO_T2	186	184	-2	0.96	0.89	-0.07	1.05	0.96	0	0	0	0	0	0
8/1/2024 22:21	46101	MACI_T2	0	0	0	0	0	0	0.76	0.78	0	0	0	0	0	0
8/1/2024 22:21	58705	ROSE_T2	5	0	0	0.56	0.84	0.28	0	0	0	0	0	0	0	0
8/1/2024 22:21	67103	SPRI_T1	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
8/1/2024 22:21	64802	MONE_T2	20	2	-18	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
8/1/2024 22:21	22903	HARW_T1	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/1/2024 22:21	64801	MONE_T2	0	0	0	0	0	0	0	0.83	0	0	0	0	0	0
8/1/2024 22:21	20403	ASHF_T2	0	0	0	0	0	0	1	0.94	0	0	0	0	0	0
8/1/2024 22:21	58706	ROSE_T2	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
8/1/2024 22:21	52004	LING_T2	2	2	0	5.35	5.45	0.1	0	0	0	0	0	0	0	0
8/1/2024 22:21	67801	WLAN_T1	1	17	16	0.8	0.5	-0.3	-0.49	-0.53	0	0	0	0	0	0
8/1/2024 22:21	56504	ROCK_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/1/2024 22:21	42701	AUGU_T1	1	2	1	0.2	0	-0.2	0	0	2	2	0	1800	1800	0
8/1/2024 22:21	65603	QVIL_T2	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
8/1/2024 22:21	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:21	58701	ROSE_T2	0	0	0	0	0	0	-0.34	-0.41	1	1	0	600	600	0
8/1/2024 22:21	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/1/2024 22:21	23401	HONE_T2	0	1	1	0	0	0	-0.09	-0.08	0	0	0	0	0	0
8/1/2024 22:21	65205	PRIN_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
8/1/2024 22:21	20401	ASHF_T2	0	3	3	0	0.25	0.25	0	0	0	0	0	0	0	0
8/1/2024 22:21	48301	ORWI_T1	2	2	0	2.3	1.85	-0.45	0.84	0.74	0	0	0	0	0	0
8/1/2024 22:22	53501	EVIL_T2	1	1	0	1.3	0.9	-0.4	-1.22	-1.2	3	3	0	1800	1800	0
8/1/2024 22:22	56501	ROCK_T2	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/1/2024 22:22	26402	INOR_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
8/1/2024 22:22	57104	SPHI_T2	0	0	0	0	0	0	-1.03	-1.09	1	1	0	900	900	0
8/1/2024 22:22	57101	SPHI_T2	6	6	0	0.52	0.5	-0.02	0	0	0	0	0	0	0	0
8/1/2024 22:22	64204	KINZ_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/1/2024 22:22	56504	ROCK_T2	0	2	2	0	0.1	0.1	-1.29	-1.39	0	0	0	0	0	0
8/1/2024 22:22	42901	MIDD_T2	3	3	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
8/1/2024 22:22	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/1/2024 22:22	47401	PENS_T1	1	0	-1	0.2	0	-0.2	0.23	0.29	0	0	0	0	0	0
8/1/2024 22:22	40602	PIGR_T1	1	1	0	0.5	0	-0.5	-1.16	-1.21	1	1	0	600	600	0
8/1/2024 22:22	42903	MIDD_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
8/1/2024 22:22	23401	HONE_T2	0	1	1	0	0	0	-0.09	-0.08	0	0	0	0	0	0
8/1/2024 22:22	13503	MCMI_T2	0	0	0	0	0	0	-0.54	-0.58	0	0	0	0	0	0
8/1/2024 22:22	67602	WARW_T2	6	6	0	0.3	0	-0.3	1.13	1.15	2	2	0	1500	1500	0
8/1/2024 22:22	64203	KINZ_T1	0	0	0	0	0	0	0.31	0.22	1	1	0	600	600	0
8/1/2024 22:22	52002	LING_T2	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0
8/1/2024 22:22	26401	INOR_T1	1	1	0	7.3	7.5	0.2	0	0	0	0	0	0	0	0
8/1/2024 22:22	64201	KINZ_T1	1	0	-1	0.3	0	-0.3	-0.25	-0.28	3	3	0	1500	1500	0
8/1/2024 22:22	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 22:22	61102	BERK_T5	0	0	0	0	0	0	0.16	0.12	1	1	0	300	300	0
8/1/2024 22:22	57106	SPHI_T2	3	3	0	0.9	1	0.1	0	0	0	0	0	0	0	0
8/1/2024 22:22	59202	THOM_T1	2	2	0	1.05	0	-1.05	0	0	0	0	0	0	0	0
8/1/2024 22:22	52004	LING_T2	2	2	0	5.35	5.45	0.1	0.53	0.46	0	0	0	0	0	0
8/1/2024 22:23	64201	KINZ_T1	1	0	-1	0.3	0	-0.3	-0.25	-0.28	3	3	0	1500	1500	0
8/1/2024 22:23	64203	KINZ_T1	0	0	0	0	0	0	0.31	0.22	1	1	0	600	600	0
8/1/2024 22:23	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:23	63801	HEMP_T1	0	0	0	0	0	0	-0.04	-0.33	1	1	0	900	900	0
8/1/2024 22:23	64204	KINZ_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/1/2024 22:23	56501	ROCK_T2	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/1/2024 22:23	44802	EDAN_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
8/1/2024 22:23	40201	BEGA_T2	3	3	0	1.5	0.3	-1.2	0	0	0	0	0	0	0	0
8/1/2024 22:23	63804	HEMP_T1	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
8/1/2024 22:23	67502	WEWI_T2	0	0	0	0	0	0	-0.71	-0.73	1	1	0	900	900	0
8/1/2024 22:23	65901	SAKR_T2	1	1	0	6.8	7.4	0.6	-0.72	-0.78	2	2	0	1500	1500	0
8/1/2024 22:23	53501	EVIL_T2	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
8/1/2024 22:23	65401	MARI_T1	13	10	-3	1.65	0.75	-0.9	0	0	0	0	0	0	0	0
8/1/2024 22:23	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 22:23	44801	EDAN_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
8/1/2024 22:23	53502	EVIL_T2	0	0	0	0	0	0	0.58	0.58	1	1	0	600	600	0
8/1/2024 22:23	58402	MORO_T1	2	2	0	2.05	0	-2.05	0.45	0.34	3	3	0	1950	1950	0
8/1/2024 22:23	45501	DERR_T2	2	0	-2	0.45	0	-0.45	-0.09	0	2	2	0	1800	1800	0
8/1/2024 22:23	56504	ROCK_T2	0	2	2	0	0.1	0.1	-0.64	-0.69	0	0	0	0	0	0
8/1/2024 22:23	61102	BERK_T5	0	0	0	0	0	0	0.16	0.12	1	1	0	300	300	0
8/1/2024 22:23	67605	WARW_T1	2	3	1	0.6	0.8	0.2	-0.87	-0.86	0	0	0	0	0	0
8/1/2024 22:24	67602	WARW_T2	6	6	0	0.3	0	-0.3	1.13	1.15	2	2	0	1500	1500	0
8/1/2024 22:24	50107	HARR_T3	1	1	0	7.2	7.3	0.1	0	0	0	0	0	0	0	0
8/1/2024 22:24	50202	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:24	52202	DEVO_T2	0	0	0	0	0	0	-3.81	-3.85	0	0	0	0	0	0
8/1/2024 22:24	59202	THOM_T1	2	2	0	1.05	0	-1.05	0	0	0	0	0	0	0	0
8/1/2024 22:24	50103	HARR_T3	0	0	0	0	0	0	-0.98	-1.01	1	1	0	1200	1200	0
8/1/2024 22:24	42802	SELI_T1	0	0	0	0	0	0	-0.9	-0.97	0	0	0	0	0	0
8/1/2024 22:24	50201	HARR_T3	2	2	0	4.2	9.2	5	0	0	0	0	0	0	0	0
8/1/2024 22:24	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0.27	0.43	0	0	0	0	0	0
8/1/2024 22:24	53501	EVIL_T2	1	1	0	1.3	0.9	-0.4	-1.22	-1.2	3	3	0	1800	1800	0
8/1/2024 22:24	65603	QVIL_T2	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
8/1/2024 22:24	42902	MIDD_T2	0	0	0	0	0	0	-0.62	-0.47	1	1	0	600	600	0
8/1/2024 22:24	55001	NEWP_T1	1	2	1	0.8	0	-0.8	-0.35	-0.36	1	1	0	600	600	0
8/1/2024 22:24	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/1/2024 22:24	57702	PAXT_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
8/1/2024 22:24	53601	DALM_T2	0	0	0	0	0	0	0.04	0.03	1	1	0	600	600	0
8/1/2024 22:24	61304	EARL_T1	0	14	14	0	0.16	0.16	0	0	0	0	0	0	0	0
8/1/2024 22:24	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/1/2024 22:24	50105	HARR_T3	6	6	0	5.98	5.85	-0.13	0	0	0	0	0	0	0	0
8/1/2024 22:24	60701	BREC_T1	0	0	0	0	0	0	0.05	0	1	1	0	600	600	0
8/1/2024 22:24	25603	ARRO_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/1/2024 22:24	56501	ROCK_T2	3	2	-1	0.1	0.1	0	-3.28	-3.49	0	0	0	0	0	0
8/1/2024 22:24	42901	MIDD_T2	3	3	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
8/1/2024 22:24	52204	DEVO_T2	5	6	1	1.34	0.62	-0.72	0	0	0	0	0	0	0	0
8/1/2024 22:24	56504	ROCK_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/1/2024 22:24	58803	COCO_T1	1	1	0	0.6	0.9	0.3	-0.77	-0.83	1	1	0	600	600	0
8/1/2024 22:25	45501	DERR_T2	2	0	-2	0.45	0	-0.45	-0.09	0	2	2	0	1800	1800	0
8/1/2024 22:25	56504	ROCK_T2	0	2	2	0	0.1	0.1	-0.64	-0.69	0	0	0	0	0	0
8/1/2024 22:25	53501	EVIL_T2	1	1	0	1.3	0.9	-0.4	-1.22	-1.2	3	3	0	1800	1800	0
8/1/2024 22:25	60701	BREC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:25	56501	ROCK_T2	3	2	-1	0.1	0.1	0	-6.55	-6.99	0	0	0	0	0	0
8/1/2024 22:25	45801	HEGI_T1	0	0	0	0	0	0	-0.29	-0.31	1	1	0	900	900	0
8/1/2024 22:25	65503	MOJO_T2	0	0	0	0	0	0	-0.44	-0.47	1	1	0	900	900	0
8/1/2024 22:25	50502	MECH_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
8/1/2024 22:25	46206	DANV_T2	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
8/1/2024 22:25	50501	MECH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/1/2024 22:25	40201	BEGA_T2	3	3	0	1.5	0.3	-1.2	0	0	0	0	0	0	0	0
8/1/2024 22:25	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:25	46203	DANV_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
8/1/2024 22:25	53902	HALI_T2	1	1	0	3.6	3.7	0.1	-0.63	-0.56	0	0	0	0	0	0
8/1/2024 22:25	67605	WARW_T1	2	3	1	0.6	0.8	0.2	-0.87	-0.86	0	0	0	0	0	0
8/1/2024 22:25	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/1/2024 22:25	65205	PRIN_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
8/1/2024 22:26	61801	EELI_T2	1	0	-1	0.2	0	-0.2	0.55	0.51	1	0	0	0	0	0
8/1/2024 22:26	52403	GRPA_T2	32	23	-9	0.72	0.68	-0.04	0	0	0	0	0	0	0	0
8/1/2024 22:26	46206	DANV_T2	1	1	0	1	0.3	-0.7	1.52	1.48	2	2	0	2100	2100	0
8/1/2024 22:26	45501	DERR_T2	2	0	-2	0.45	0	-0.45	-0.09	0	2	2	0	1800	1800	0
8/1/2024 22:26	42902	MIDD_T2	0	0	0	0	0	0	-0.62	-0.47	1	1	0	600	600	0
8/1/2024 22:26	56501	ROCK_T2	3	2	-1	0.1	0.1	0	-1.64	-1.75	0	0	0	0	0	0
8/1/2024 22:26	56504	ROCK_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/1/2024 22:26	20401	ASHF_T2	0	3	3	0	0.25	0.25	0	0	0	0	0	0	0	0
8/1/2024 22:26	67602	WARW_T2	6	6	0	0.3	0	-0.3	1.13	1.15	2	2	0	1500	1500	0
8/1/2024 22:26	40101	HUNT_T2	2	23	21	0.2	0.35	0.15	0	0	0	0	0	0	0	0
8/1/2024 22:26	42901	MIDD_T2	3	3	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
8/1/2024 22:26	43108	SMIL_T2	0	0	0	0	0	0	-1.87	-1.91	2	2	0	2400	2400	0
8/1/2024 22:26	20403	ASHF_T2	0	0	0	0	0	0	0.94	0.88	0	0	0	0	0	0
8/1/2024 22:26	52401	GRPA_T2	12	5	-7	0.45	0	-0.45	0	0	0	0	0	0	0	0
8/1/2024 22:26	20402	ASHF_T2	6	7	1	0.57	0.37	-0.2	0	0	0	0	0	0	0	0
8/1/2024 22:26	63804	HEMP_T1	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
8/1/2024 22:26	20603	GRWO_T2	0	1	1	0	0	0	-0.3	-0.33	1	1	0	900	900	0
8/1/2024 22:26	55001	NEWP_T1	1	2	1	0.8	0	-0.8	-0.35	-0.36	1	1	0	600	600	0
8/1/2024 22:26	45802	HEGI_T2	38	7	-31	0.63	0.2	-0.43	0.49	0.52	0	0	0	0	0	0
8/1/2024 22:26	43103	SMIL_T2	0	0	0	0	0	0	-0.38	-0.53	0	0	0	0	0	0
8/1/2024 22:26	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/1/2024 22:26	46102	MACI_T1	0	0	0	0	0	0	0.98	1	0	0	0	0	0	0
8/1/2024 22:26	52402	GRPA_T2	5	2	-3	0.66	0.3	-0.36	0	0	0	0	0	0	0	0
8/1/2024 22:26	52404	GRPA_T2	2	0	-2	0.3	0	-0.3	0.15	0.11	0	0	0	0	0	0
8/1/2024 22:26	52204	DEVO_T2	5	6	1	1.34	0.62	-0.72	0	0	0	0	0	0	0	0
8/1/2024 22:26	47401	PENS_T1	1	0	-1	0.2	0	-0.2	0.23	0.29	0	0	0	0	0	0
8/1/2024 22:26	52202	DEVO_T2	0	0	0	0	0	0	-1.9	-1.93	0	0	0	0	0	0
8/1/2024 22:26	20601	GRWO_T2	186	184	-2	0.96	0.89	-0.07	0	0	0	0	0	0	0	0
8/1/2024 22:26	63801	HEMP_T1	0	0	0	0	0	0	-0.04	-0.33	1	1	0	900	900	0
8/1/2024 22:27	20401	ASHF_T2	0	3	3	0	0.25	0.25	-0.23	-0.27	1	1	0	600	600	0
8/1/2024 22:27	61102	BERK_T5	0	0	0	0	0	0	0.16	0.12	1	1	0	300	300	0
8/1/2024 22:27	44802	EDAN_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
8/1/2024 22:27	55001	NEWP_T1	1	2	1	0.8	0	-0.8	-0.35	-0.36	1	1	0	600	600	0
8/1/2024 22:27	63304	GREE_T1	0	0	0	0	0	0	-1.02	-1.05	0	0	0	0	0	0
8/1/2024 22:27	44801	EDAN_T2	1	1	0	0.5	0.9	0.4	-3.82	-3.92	0	0	0	0	0	0
8/1/2024 22:27	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:27	45802	HEGI_T2	38	7	-31	0.63	0.2	-0.43	0.49	0.52	0	0	0	0	0	0
8/1/2024 22:27	22805	HAUT_T2	27	44	17	1.03	0.77	-0.26	-1.04	-1.08	1	1	0	1200	1200	0
8/1/2024 22:27	40502	CRES_T2	2	4	2	1.15	0.17	-0.98	-0.57	-1.21	0	0	0	0	0	0
8/1/2024 22:27	20402	ASHF_T2	6	7	1	0.57	0.37	-0.2	0	0	0	0	0	0	0	0
8/1/2024 22:27	46203	DANV_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
8/1/2024 22:27	44301	BEAV_T2	0	0	0	0	0	0	-0.13	-0.1	1	1	0	600	600	0
8/1/2024 22:27	66901	SHIL_T2	101	101	0	0.2	0.22	0.02	0	0	0	0	0	0	0	0
8/1/2024 22:27	48301	ORWI_T1	2	2	0	2.3	1.85	-0.45	0.84	0.74	0	0	0	0	0	0
8/1/2024 22:27	59101	WALK_T2	0	1	1	0	0	0	0.7	0.74	3	3	0	1800	1800	0
8/1/2024 22:27	51003	NHAR_T1	10	10	0	1.58	1.06	-0.52	-1.25	-1.25	1	1	0	1200	1200	0
8/1/2024 22:27	56504	ROCK_T2	0	2	2	0	0.1	0.1	-0.64	-0.69	0	0	0	0	0	0
8/1/2024 22:27	42801	SELI_T1	0	0	0	0	0	0	-0.55	-0.55	1	1	0	1200	1200	0
8/1/2024 22:27	64802	MONE_T2	20	2	-18	0.15	0.1	-0.05	0.33	0.3	0	0	0	0	0	0
8/1/2024 22:27	56501	ROCK_T2	3	2	-1	0.1	0.1	0	-1.64	-1.75	0	0	0	0	0	0
8/1/2024 22:27	51004	NHAR_T1	9	1	-8	1.03	7.1	6.07	0	0	0	0	0	0	0	0
8/1/2024 22:27	66903	SHIL_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
8/1/2024 22:27	51902	COPA_T1	0	0	0	0	0	0	-1.37	-1.45	1	1	0	1200	1200	0
8/1/2024 22:27	43202	MVIL_T2	0	5	5	0	0.14	0.14	-0.46	-0.49	0	0	0	0	0	0
8/1/2024 22:27	20403	ASHF_T2	0	0	0	0	0	0	0.94	0.88	0	0	0	0	0	0
8/1/2024 22:27	42701	AUGU_T1	1	2	1	0.2	0	-0.2	0	0	2	2	0	1800	1800	0
8/1/2024 22:27	53601	DALM_T2	0	0	0	0	0	0	0.04	0.03	1	1	0	600	600	0
8/1/2024 22:27	22803	HAUT_T2	12	26	14	0.43	0.5	0.07	0	0	0	0	0	0	0	0
8/1/2024 22:27	55101	WERT_T1	0	0	0	0	0	0	-2.25	-2.27	4	4	0	3300	3300	0
8/1/2024 22:27	66902	SHIL_T2	22	21	-1	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
8/1/2024 22:27	67303	WYOM_T2	0	0	0	0	0	0	-0.71	-0.85	0	0	0	0	0	0
8/1/2024 22:27	63305	GREE_T1	4	3	-1	0.35	0.27	-0.08	0	0	0	0	0	0	0	0
8/1/2024 22:27	46206	DANV_T2	1	1	0	1	0.3	-0.7	1.52	1.48	2	2	0	2100	2100	0
8/1/2024 22:27	60101	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:27	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/1/2024 22:27	53902	HALI_T2	1	1	0	3.6	3.7	0.1	-0.63	-0.56	0	0	0	0	0	0
8/1/2024 22:28	60201	ATGL_T2	0	1	1	0	0.1	0.1	0.45	0.41	0	0	0	0	0	0
8/1/2024 22:28	44801	EDAN_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
8/1/2024 22:28	44702	MUNC_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 22:28	45801	HEGI_T1	0	0	0	0	0	0	-0.29	-0.31	1	1	0	900	900	0
8/1/2024 22:28	64203	KINZ_T1	0	0	0	0	0	0	0.31	0.22	1	1	0	600	600	0
8/1/2024 22:28	51003	NHAR_T1	10	10	0	1.58	1.06	-0.52	0	0	0	0	0	0	0	0
8/1/2024 22:28	42901	MIDD_T2	3	3	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
8/1/2024 22:28	44703	MUNC_T2	0	0	0	0	0	0	1	0.99	0	0	0	0	0	0
8/1/2024 22:28	52202	DEVO_T2	0	0	0	0	0	0	-1.9	-1.93	0	0	0	0	0	0
8/1/2024 22:28	42902	MIDD_T2	0	0	0	0	0	0	-0.62	-0.47	1	1	0	600	600	0
8/1/2024 22:28	52204	DEVO_T2	5	6	1	1.34	0.62	-0.72	0	0	0	0	0	0	0	0
8/1/2024 22:28	45502	DERR_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
8/1/2024 22:28	16603	PONO_T2	0	0	0	0	0	0	0.29	0.12	1	1	0	1200	1200	0
8/1/2024 22:28	42903	MIDD_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
8/1/2024 22:28	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:28	47401	PENS_T1	1	0	-1	0.2	0	-0.2	0.68	0.86	0	0	0	0	0	0
8/1/2024 22:28	64201	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/1/2024 22:28	44702	MUNC_T2	23	20	-3	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
8/1/2024 22:28	22901	HARW_T1	13	25	12	0.3	0.34	0.04	-0.23	-0.11	1	1	0	1200	1200	0
8/1/2024 22:28	40502	CRES_T2	2	4	2	1.15	0.17	-0.98	-0.57	-1.21	0	0	0	0	0	0
8/1/2024 22:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:28	53501	EVIL_T2	1	1	0	1.3	0.9	-0.4	-1.22	-1.2	3	3	0	1800	1800	0
8/1/2024 22:28	56504	ROCK_T2	0	2	2	0	0.1	0.1	-0.64	-0.69	0	0	0	0	0	0
8/1/2024 22:28	44301	BEAV_T2	0	0	0	0	0	0	-0.13	-0.1	1	1	0	600	600	0
8/1/2024 22:28	62102	ELAN_T1	0	0	0	0	0	0	0.76	0.72	0	0	0	0	0	0
8/1/2024 22:28	56501	ROCK_T2	3	2	-1	0.1	0.1	0	-4.91	-5.24	0	0	0	0	0	0
8/1/2024 22:28	22903	HARW_T1	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/1/2024 22:28	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 22:28	44802	EDAN_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
8/1/2024 22:28	51004	NHAR_T1	9	1	-8	1.03	7.1	6.07	-0.54	-0.56	0	0	0	0	0	0
8/1/2024 22:28	40101	HUNT_T2	2	23	21	0.2	0.35	0.15	-0.76	-0.8	0	0	0	0	0	0
8/1/2024 22:28	22905	HARW_T1	24	34	10	1.68	0.68	-1	0	0	0	0	0	0	0	0
8/1/2024 22:28	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/1/2024 22:28	64204	KINZ_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/1/2024 22:28	45501	DERR_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
8/1/2024 22:29	47104	MARL_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/1/2024 22:29	40502	CRES_T2	2	4	2	1.15	0.17	-0.98	-0.57	-1.21	0	0	0	0	0	0
8/1/2024 22:29	65901	SAKR_T2	1	1	0	6.8	7.4	0.6	0	0	0	0	0	0	0	0
8/1/2024 22:29	47001	HUGH_T2	5	5	0	4.76	4.76	0	-1.17	-1.26	1	1	0	900	900	0
8/1/2024 22:29	58401	MORO_T1	0	0	0	0	0	0	-1.13	-1.15	2	2	0	1500	1500	0
8/1/2024 22:29	58402	MORO_T1	2	2	0	2.05	0	-2.05	0	0	0	0	0	0	0	0
8/1/2024 22:29	46203	DANV_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
8/1/2024 22:29	46206	DANV_T2	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
8/1/2024 22:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:29	61701	ELIZ_T1	1	1	0	3.4	3.6	0.2	0	0	0	0	0	0	0	0
8/1/2024 22:29	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:29	46101	MACI_T2	0	0	0	0	0	0	0.78	0.75	0	0	0	0	0	0
8/1/2024 22:29	42801	SELI_T1	0	0	0	0	0	0	-0.9	-0.97	0	0	0	0	0	0
8/1/2024 22:29	47002	HUGH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/1/2024 22:29	65902	SAKR_T2	0	0	0	0	0	0	-0.89	-0.92	1	1	0	900	900	0
8/1/2024 22:29	67602	WARW_T2	6	6	0	0.3	0	-0.3	1.13	1.15	2	2	0	1500	1500	0
8/1/2024 22:29	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:29	42701	AUGU_T1	1	2	1	0.2	0	-0.2	0	0	2	2	0	1800	1800	0
8/1/2024 22:29	47101	MARL_T1	42	46	4	0.87	0.95	0.08	-0.85	-0.83	1	1	0	600	600	0
8/1/2024 22:30	63305	GREE_T1	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
8/1/2024 22:30	45303	WBER_T2	1	7	6	0.1	0.17	0.07	0	0	0	0	0	0	0	0
8/1/2024 22:30	46903	MNTG_T2	0	0	0	0	0	0	0.3	0.28	1	1	0	600	600	0
8/1/2024 22:30	46206	DANV_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/1/2024 22:30	44802	EDAN_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
8/1/2024 22:30	43202	MVIL_T2	5	4	-1	0.14	0.15	0.01	-0.46	-0.49	0	0	0	0	0	0
8/1/2024 22:30	67602	WARW_T2	6	3	-3	0.18	0	-0.18	2.25	2.3	4	4	0	3000	3000	0
8/1/2024 22:30	60101	COCA_T1	0	0	0	0	0	0	-0.4	-0.39	1	1	0	1200	1200	0
8/1/2024 22:30	63801	HEMP_T1	0	0	0	0	0	0	-0.07	-0.66	2	2	0	1800	1800	0
8/1/2024 22:30	51003	NHAR_T1	10	10	0	1.07	1.32	0.25	0	0	0	0	0	0	0	0
8/1/2024 22:30	53601	DALM_T2	0	0	0	0	0	0	0.04	0.03	1	1	0	600	600	0
8/1/2024 22:30	44801	EDAN_T2	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
8/1/2024 22:30	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/1/2024 22:30	57304	MOAL_T2	0	1	1	0	0.1	0.1	0	-0.38	0	0	0	0	0	0
8/1/2024 22:30	56504	ROCK_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
8/1/2024 22:30	52002	LING_T2	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0
8/1/2024 22:30	45302	WBER_T2	0	0	0	0	0	0	1.4	1.42	0	0	0	0	0	0
8/1/2024 22:30	56501	ROCK_T2	1	4	3	0.1	0.2	0.1	-1.64	-1.75	0	0	0	0	0	0
8/1/2024 22:30	51004	NHAR_T1	1	1	0	7.3	6.9	-0.4	-0.54	-0.56	0	0	0	0	0	0
8/1/2024 22:30	53501	EVIL_T2	1	1	0	0.9	0.8	-0.1	-2.44	-2.4	6	6	0	3600	3600	0
8/1/2024 22:30	57303	MOAL_T2	1	1	0	7.9	7.6	-0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/1/2024 22:30	59202	THOM_T1	2	0	-2	1	0	-1	0	0	0	0	0	0	0	0
8/1/2024 22:30	42802	SELI_T1	0	0	0	0	0	0	-0.9	-0.97	0	0	0	0	0	0
8/1/2024 22:30	46301	ROHR_T1	49	43	-6	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
8/1/2024 22:30	46203	DANV_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
8/1/2024 22:30	57702	PAXT_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
8/1/2024 22:30	63804	HEMP_T1	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
8/1/2024 22:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:30	55101	WERT_T1	0	0	0	0	0	0	-6.76	-6.82	12	12	0	9900	9900	0
8/1/2024 22:30	46302	ROHR_T2	4	4	0	1.15	1.33	0.18	0.39	0.39	0	0	0	0	0	0
8/1/2024 22:30	63304	GREE_T1	0	0	0	0	0	0	-1.02	-1.05	0	0	0	0	0	0
8/1/2024 22:30	52004	LING_T2	2	2	0	5.35	5.45	0.1	0.26	0.23	0	0	0	0	0	0
8/1/2024 22:31	56504	ROCK_T2	1	2	1	0.1	0.25	0.15	-0.64	-0.69	0	0	0	0	0	0
8/1/2024 22:31	42902	MIDD_T2	0	0	0	0	0	0	-0.62	-0.47	1	1	0	600	600	0
8/1/2024 22:31	52401	GRPA_T2	5	0	-5	0.34	0	-0.34	-0.09	-0.1	0	0	0	0	0	0
8/1/2024 22:31	42903	MIDD_T2	11	0	-11	3.01	0	-3.01	0	0	0	0	0	0	0	0
8/1/2024 22:31	46203	DANV_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
8/1/2024 22:31	59003	MIFF_T1	1	1	0	1.2	0.2	-1	-0.85	-0.95	0	0	0	0	0	0
8/1/2024 22:31	47101	MARL_T1	34	46	12	0.96	0.9	-0.06	-0.85	-0.83	1	1	0	600	600	0
8/1/2024 22:31	52403	GRPA_T2	22	14	-8	0.71	1.1	0.39	0	0	0	0	0	0	0	0
8/1/2024 22:31	52402	GRPA_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/1/2024 22:31	53802	MBRG_T2	0	0	0	0	0	0	-0.17	-0.06	0	0	0	0	0	0
8/1/2024 22:31	56501	ROCK_T2	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/1/2024 22:31	67605	WARW_T1	3	3	0	0.63	0.8	0.17	-0.87	-0.86	0	0	0	0	0	0
8/1/2024 22:31	52404	GRPA_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
8/1/2024 22:31	43101	SMIL_T2	0	0	0	0	0	0	-0.5	-0.55	0	0	0	0	0	0
8/1/2024 22:31	45501	DERR_T2	0	0	0	0	0	0	-0.09	0	2	2	0	1800	1800	0
8/1/2024 22:31	42701	AUGU_T1	0	2	2	0	0.35	0.35	0	0	2	2	0	1800	1800	0
8/1/2024 22:31	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:31	42901	MIDD_T2	3	1	-2	0.37	0.5	0.13	0	0	0	0	0	0	0	0
8/1/2024 22:31	40502	CRES_T2	2	3	1	0.1	0.17	0.07	-0.57	-1.21	0	0	0	0	0	0
8/1/2024 22:31	46206	DANV_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/1/2024 22:31	45502	DERR_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
8/1/2024 22:31	41602	CLEV_T1	5	4	-1	0.3	0.23	-0.07	0	0	1	1	0	600	600	0
8/1/2024 22:31	66703	STRA_T1	0	0	0	0	0	0	0.61	0.51	0	0	0	0	0	0
8/1/2024 22:32	59202	THOM_T1	2	0	-2	1	0	-1	0	0	0	0	0	0	0	0
8/1/2024 22:32	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:32	43202	MVIL_T2	5	4	-1	0.14	0.15	0.01	-0.46	-0.49	0	0	0	0	0	0
8/1/2024 22:32	42701	AUGU_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
8/1/2024 22:32	46203	DANV_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
8/1/2024 22:32	43103	SMIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:32	46206	DANV_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/1/2024 22:32	40502	CRES_T2	2	3	1	0.1	0.17	0.07	-1.15	-2.41	0	0	0	0	0	0
8/1/2024 22:32	55001	NEWP_T1	0	2	2	0	0	0	-0.35	-0.36	1	1	0	600	600	0
8/1/2024 22:32	46506	LOHA_T1	4	1	-3	0.18	0.2	0.02	0	0	0	0	0	0	0	0
8/1/2024 22:32	40101	HUNT_T2	20	23	3	0.38	0.32	-0.06	-0.76	-0.8	0	0	0	0	0	0
8/1/2024 22:32	56501	ROCK_T2	1	4	3	0.1	0.2	0.1	-3.28	-3.49	0	0	0	0	0	0
8/1/2024 22:32	43402	BENT_T1	0	0	0	0	0	0	-0.75	-0.75	1	1	0	900	900	0
8/1/2024 22:32	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:32	55003	NEWP_T2	0	0	0	0	0	0	-0.47	-1.16	0	1	1	0	600	600
8/1/2024 22:32	41901	REED_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/1/2024 22:32	55101	WERT_T1	0	0	0	0	0	0	-2.25	-2.27	4	4	0	3300	3300	0
8/1/2024 22:32	67605	WARW_T1	3	3	0	0.63	0.8	0.17	-0.87	-0.86	0	0	0	0	0	0
8/1/2024 22:32	46503	LOHA_T1	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
8/1/2024 22:32	45801	HEGI_T1	0	0	0	0	0	0	-0.29	-0.31	1	1	0	900	900	0
8/1/2024 22:32	42201	SHEN_T2	0	0	0	0	0	0	0.27	0.35	1	1	0	600	600	0
8/1/2024 22:32	56504	ROCK_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
8/1/2024 22:32	41902	REED_T1	21	3	-18	0.41	0.2	-0.21	0.62	-0.39	1	1	0	900	900	0
8/1/2024 22:32	53902	HALI_T2	1	1	0	3.6	3.9	0.3	-0.63	-0.56	0	0	0	0	0	0
8/1/2024 22:32	59101	WALK_T2	1	0	-1	0.1	0	-0.1	1.39	1.47	6	6	0	3600	3600	0
8/1/2024 22:32	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:32	58203	NEWV_T2	26	10	-16	0.67	1.93	1.26	-0.89	-0.89	0	0	0	0	0	0
8/1/2024 22:32	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:33	43103	SMIL_T2	0	0	0	0	0	0	-0.38	-0.53	0	0	0	0	0	0
8/1/2024 22:33	53501	EVIL_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
8/1/2024 22:33	42902	MIDD_T2	0	0	0	0	0	0	-0.62	-0.47	1	1	0	600	600	0
8/1/2024 22:33	58401	MORO_T1	0	0	0	0	0	0	-2.25	-2.3	4	4	0	3000	3000	0
8/1/2024 22:33	52002	LING_T2	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0
8/1/2024 22:33	46506	LOHA_T1	4	1	-3	0.18	0.2	0.02	-1.75	-1.78	2	2	0	2100	2100	0
8/1/2024 22:33	40201	BEGA_T2	2	3	1	1.05	0.3	-0.75	0	0	0	0	0	0	0	0
8/1/2024 22:33	42903	MIDD_T2	11	0	-11	3.01	0	-3.01	0	0	0	0	0	0	0	0
8/1/2024 22:33	42901	MIDD_T2	3	1	-2	0.37	0.5	0.13	0	0	0	0	0	0	0	0
8/1/2024 22:33	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:33	44301	BEAV_T2	0	0	0	0	0	0	-0.13	-0.1	1	1	0	600	600	0
8/1/2024 22:33	57702	PAXT_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
8/1/2024 22:33	53502	EVIL_T2	0	0	0	0	0	0	0.58	0.58	1	1	0	600	600	0
8/1/2024 22:33	40101	HUNT_T2	20	23	3	0.38	0.32	-0.06	-0.76	-0.8	0	0	0	0	0	0
8/1/2024 22:33	58402	MORO_T1	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/1/2024 22:33	52004	LING_T2	2	2	0	5.35	5.45	0.1	0	0	0	0	0	0	0	0
8/1/2024 22:34	42902	MIDD_T2	0	0	0	0	0	0	-0.62	-0.47	1	1	0	600	600	0
8/1/2024 22:34	46801	HEPB_T2	2	2	0	0.95	0.6	-0.35	0.04	0.05	0	0	0	0	0	0
8/1/2024 22:34	46206	DANV_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/1/2024 22:34	46203	DANV_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
8/1/2024 22:34	49803	UNIV_T1	1	1	0	6.3	6.4	0.1	-1.84	-1.86	0	0	0	0	0	0
8/1/2024 22:34	58401	MORO_T1	0	0	0	0	0	0	-1.13	-1.15	2	2	0	1500	1500	0
8/1/2024 22:34	58402	MORO_T1	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/1/2024 22:34	42901	MIDD_T2	3	1	-2	0.37	0.5	0.13	0	0	0	0	0	0	0	0
8/1/2024 22:34	45402	WBLO_T2	16	2	-14	0.24	0.6	0.36	-1.02	-1.08	1	1	0	900	900	0
8/1/2024 22:34	47401	PENS_T1	0	0	0	0	0	0	0.23	0.29	0	0	0	0	0	0
8/1/2024 22:34	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:34	42903	MIDD_T2	11	0	-11	3.01	0	-3.01	0	0	0	0	0	0	0	0
8/1/2024 22:34	46506	LOHA_T1	4	1	-3	0.18	0.2	0.02	-1.75	-1.78	2	2	0	2100	2100	0
8/1/2024 22:35	42901	MIDD_T2	3	1	-2	0.37	0.5	0.13	0	0	0	0	0	0	0	0
8/1/2024 22:35	42903	MIDD_T2	11	0	-11	3.01	0	-3.01	0	0	0	0	0	0	0	0
8/1/2024 22:35	45501	DERR_T2	0	0	0	0	0	0	-0.09	0	2	2	0	1800	1800	0
8/1/2024 22:35	59101	WALK_T2	1	0	-1	0.1	0	-0.1	0.7	0.74	3	3	0	1800	1800	0
8/1/2024 22:35	41902	REED_T1	21	3	-18	0.41	0.2	-0.21	0.62	-0.39	1	1	0	900	900	0
8/1/2024 22:35	54701	NEBL_T1	0	1	1	0	0.5	0.5	0	0	1	1	0	600	600	0
8/1/2024 22:35	43108	SMIL_T2	0	0	0	0	0	0	-0.94	-0.96	1	1	0	1200	1200	0
8/1/2024 22:35	53501	EVIL_T2	1	1	0	0.9	0.8	-0.1	-1.22	-1.2	3	3	0	1800	1800	0
8/1/2024 22:35	59202	THOM_T1	2	0	-2	1	0	-1	0	0	0	0	0	0	0	0
8/1/2024 22:35	42802	SELI_T1	0	0	0	0	0	0	-0.9	-0.97	0	0	0	0	0	0
8/1/2024 22:35	42902	MIDD_T2	0	0	0	0	0	0	-0.62	-0.47	1	1	0	600	600	0
8/1/2024 22:35	41002	LAUR_T2	7	29	22	0.39	0.24	-0.15	0.16	0.15	0	0	0	0	0	0
8/1/2024 22:35	44203	POIN_T2	2	5	3	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/1/2024 22:35	41901	REED_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/1/2024 22:35	55101	WERT_T1	0	0	0	0	0	0	-2.25	-2.27	4	4	0	3300	3300	0
8/1/2024 22:35	44202	POIN_T2	1	1	0	2.1	0.9	-1.2	-0.19	-0.22	1	1	0	1200	1200	0
8/1/2024 22:35	41001	LAUR_T2	0	17	17	0	0.12	0.12	0	0	0	0	0	0	0	0
8/1/2024 22:35	40201	BEGA_T2	2	3	1	1.05	0.3	-0.75	0	0	0	0	0	0	0	0
8/1/2024 22:36	45501	DERR_T2	0	0	0	0	0	0	-0.18	0	4	4	0	3600	3600	0
8/1/2024 22:36	40901	JESH_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/1/2024 22:36	45702	LIND_T2	0	0	0	0	0	0	-1.43	-1.44	0	0	0	0	0	0
8/1/2024 22:36	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:36	46506	LOHA_T1	4	1	-3	0.18	0.2	0.02	-1.75	-1.78	2	2	0	2100	2100	0
8/1/2024 22:36	46203	DANV_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
8/1/2024 22:36	40902	JESH_T1	0	0	0	0	0	0	-1.32	-1.4	2	2	0	1200	1200	0
8/1/2024 22:36	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:36	46206	DANV_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/1/2024 22:37	40201	BEGA_T2	2	3	1	1.05	0.3	-0.75	0	0	0	0	0	0	0	0
8/1/2024 22:37	46803	HEPB_T2	0	0	0	0	0	0	0.59	0.62	0	0	0	0	0	0
8/1/2024 22:37	52402	GRPA_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/1/2024 22:37	46801	HEPB_T2	2	2	0	0.95	0.6	-0.35	0	0	0	0	0	0	0	0
8/1/2024 22:37	44802	EDAN_T2	0	0	0	0	0	0	-0.33	-0.4	0	0	0	0	0	0
8/1/2024 22:37	45501	DERR_T2	0	0	0	0	0	0	0	0.05	4	4	0	3600	3600	0
8/1/2024 22:37	52401	GRPA_T2	5	0	-5	0.34	0	-0.34	0	0	0	0	0	0	0	0
8/1/2024 22:37	46901	MNTG_T2	0	0	0	0	0	0	0.32	0.27	1	1	0	1200	1200	0
8/1/2024 22:37	44801	EDAN_T2	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
8/1/2024 22:37	52403	GRPA_T2	22	14	-8	0.71	1.1	0.39	-0.52	-0.53	0	0	0	0	0	0
8/1/2024 22:37	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:38	43506	WWIL_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
8/1/2024 22:38	43504	WWIL_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
8/1/2024 22:38	64904	MILL_T1	0	0	0	0	0	0	0.65	0.46	0	0	0	0	0	0
8/1/2024 22:38	43505	WWIL_T1	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
8/1/2024 22:38	47401	PENS_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
8/1/2024 22:39	49803	UNIV_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
8/1/2024 22:39	49804	UNIV_T1	0	0	0	0	0	0	1.05	1.03	0	0	0	0	0	0
8/1/2024 22:39	43103	SMIL_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
8/1/2024 22:40	46901	MNTG_T2	0	0	0	0	0	0	0.32	0.27	1	1	0	1200	1200	0
8/1/2024 22:41	56504	ROCK_T2	1	2	1	0.1	0.25	0.15	-0.69	-0.7	0	0	0	0	0	0
8/1/2024 22:41	56501	ROCK_T2	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/1/2024 22:41	45501	DERR_T2	0	0	0	0	0	0	0	0.02	2	2	0	1800	1800	0
8/1/2024 23:58	46001	BERW_T1	1	1	0	0.3	0	-0.3	1.09	1.07	0	0	0	0	0	0
8/2/2024 0:01	46001	BERW_T1	0	1	1	0	0	0	1.09	1.07	0	0	0	0	0	0
8/2/2024 0:44	40101	HUNT_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
8/2/2024 1:51	61701	ELIZ_T1	1	1	0	3.7	4	0.3	0.72	0.74	0	0	0	0	0	0
8/2/2024 2:37	47101	MARL_T1	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
8/2/2024 2:40	64101	REFR_T1	0	0	0	0	0	0	1.47	1.4	0	0	0	0	0	0
8/2/2024 2:41	64101	REFR_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
8/2/2024 2:42	64101	REFR_T1	0	0	0	0	0	0	0.98	0.94	0	0	0	0	0	0
8/2/2024 2:43	64101	REFR_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
8/2/2024 2:44	64101	REFR_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
8/2/2024 2:45	64101	REFR_T1	0	1	1	0	0	0	0.49	0.47	0	0	0	0	0	0
8/2/2024 3:16	43301	WATS_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
8/2/2024 3:39	22701	MINO_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
8/2/2024 4:22	43301	WATS_T2	0	0	0	0	0	0	-0.52	-0.52	1	1	0	900	900	0
8/2/2024 4:40	65901	SAKR_T2	1	1	0	8.5	8.3	-0.2	-1.27	-1.15	2	2	0	1500	1500	0
8/2/2024 7:10	57004	WHHI_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
8/2/2024 7:10	57002	WHHI_T2	1	1	0	9.9	9.7	-0.2	0	0	0	0	0	0	0	0
8/2/2024 7:29	64203	KINZ_T1	0	0	0	0	0	0	-0.54	-0.42	3	3	0	2100	2100	0
8/2/2024 7:29	64204	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
8/2/2024 7:32	65603	QVIL_T2	0	0	0	0	0	0	0.86	0.83	0	0	0	0	0	0
8/2/2024 7:36	44902	SCOT_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
8/2/2024 7:43	41801	GOCI_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/2/2024 7:47	64902	MILL_T2	0	0	0	0	0	0	-0.8	-0.73	1	1	0	900	900	0
8/2/2024 7:48	54203	PENN_T1	18	18	0	0.29	0.64	0.35	0	0	0	0	0	0	0	0
8/2/2024 7:48	54201	PENN_T1	11	53	42	0.57	0.35	-0.22	-1.71	-1.71	0	0	0	0	0	0
8/2/2024 7:52	43301	WATS_T2	0	1	1	0	0.3	0.3	-0.39	-0.36	1	1	0	900	900	0
8/2/2024 7:56	63403	HONY_T2	0	0	0	0	0	0	-0.74	-0.6	1	1	0	600	600	0
8/2/2024 7:57	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 7:59	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 8:01	46102	MACI_T1	0	0	0	0	0	0	0.96	0.99	0	0	0	0	0	0
8/2/2024 8:02	41801	GOCI_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/2/2024 8:04	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
8/2/2024 8:04	51702	OBER_T1	2	2	0	2.6	2.4	-0.2	0	0	0	0	0	0	0	0
8/2/2024 8:04	51704	OBER_T1	0	0	0	0	0	0	-1.31	-1.29	1	1	0	1200	1200	0
8/2/2024 8:04	15702	TANN_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
8/2/2024 8:07	41903	REED_T1	0	0	0	0	0	0	0.31	0.35	1	1	0	1200	1200	0
8/2/2024 8:07	41901	REED_T1	7	9	2	0.23	0.61	0.38	0	0	0	0	0	0	0	0
8/2/2024 8:08	55105	WERT_T1	0	0	0	0	0	0	0.12	0.19	1	1	0	900	900	0
8/2/2024 8:08	55101	WERT_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/2/2024 8:10	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
8/2/2024 8:10	15702	TANN_T2	0	0	0	0	0	0	-0.16	-0.08	0	0	0	0	0	0
8/2/2024 8:11	24702	FLND_T2	1	0	-1	0.6	0	-0.6	0.51	0.59	2	2	0	2400	2400	0
8/2/2024 8:12	53601	DALM_T2	1	0	-1	0.4	0	-0.4	-0.03	-0.17	2	2	0	1500	1500	0
8/2/2024 8:19	40602	PIGR_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/2/2024 8:19	43202	MVIL_T2	4	34	30	0.18	0.24	0.06	-0.4	-0.41	0	0	0	0	0	0
8/2/2024 8:19	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 8:21	43202	MVIL_T2	4	34	30	0.18	0.24	0.06	-0.4	-0.41	0	0	0	0	0	0
8/2/2024 8:24	57106	SPHI_T2	3	3	0	1.27	1.07	-0.2	0	0	0	0	0	0	0	0
8/2/2024 8:24	57101	SPHI_T2	6	6	0	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
8/2/2024 8:24	45501	DERR_T2	1	2	1	0.1	0.4	0.3	0.81	0.84	2	2	0	1800	1800	0
8/2/2024 8:24	45502	DERR_T2	1	4	3	1	1.5	0.5	0	0	0	0	0	0	0	0
8/2/2024 8:24	57104	SPHI_T2	1	0	-1	6.9	0	-6.9	-0.32	-0.31	0	0	0	0	0	0
8/2/2024 8:25	45502	DERR_T2	1	4	3	1	1.5	0.5	0	0	0	0	0	0	0	0
8/2/2024 8:25	45501	DERR_T2	1	2	1	0.1	0.4	0.3	0.81	0.84	2	2	0	1800	1800	0
8/2/2024 8:31	64902	MILL_T2	0	0	0	0	0	0	-0.69	-0.66	1	1	0	900	900	0
8/2/2024 8:34	46301	ROHR_T1	61	100	39	0.18	0.24	0.06	0.39	0.4	0	0	0	0	0	0
8/2/2024 8:34	55105	WERT_T1	0	0	0	0	0	0	0.19	0.24	1	1	0	900	900	0
8/2/2024 8:34	46302	ROHR_T1	5	5	0	1.3	1.42	0.12	0.32	0.35	0	0	0	0	0	0
8/2/2024 8:35	23001	SAJO_T1	0	0	0	0	0	0	-0.28	-0.24	0	0	0	0	0	0
8/2/2024 8:38	46301	ROHR_T1	61	100	39	0.18	0.24	0.06	0	0	0	0	0	0	0	0
8/2/2024 8:38	64902	MILL_T2	0	0	0	0	0	0	-0.66	-0.64	1	1	0	900	900	0
8/2/2024 8:38	46302	ROHR_T1	5	5	0	1.3	1.42	0.12	0.35	0.35	0	0	0	0	0	0
8/2/2024 8:43	45501	DERR_T2	1	3	2	0.4	0.4	0	0	0	0	0	0	0	0	0
8/2/2024 8:43	45502	DERR_T2	1	8	7	1.5	0.93	-0.57	0.09	0.46	0	0	0	0	0	0
8/2/2024 8:45	40101	HUNT_T2	11	69	58	0.37	0.44	0.07	-0.08	-0.07	0	0	0	0	0	0
8/2/2024 8:46	43202	MVIL_T2	34	5	-29	0.24	0.2	-0.04	-0.8	-0.78	0	0	0	0	0	0
8/2/2024 8:50	43202	MVIL_T2	34	5	-29	0.24	0.2	-0.04	-0.4	-0.39	0	0	0	0	0	0
8/2/2024 8:51	42201	SHEN_T2	0	0	0	0	0	0	0.21	0.25	1	1	0	600	600	0
8/2/2024 8:52	23001	SAJO_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
8/2/2024 8:55	60502	NMAN_T2	0	0	0	0	0	0	0.81	0.82	0	0	0	0	0	0
8/2/2024 8:55	20401	ASHF_T2	4	5	1	1	0.7	-0.3	0	0	0	0	0	0	0	0
8/2/2024 8:55	20402	ASHF_T2	0	6	6	0	1.4	1.4	0	0	0	0	0	0	0	0
8/2/2024 8:55	20403	ASHF_T2	1	9	8	0.2	0.41	0.21	1.98	2.03	0	0	0	0	0	0
8/2/2024 8:57	20402	ASHF_T2	0	6	6	0	1.4	1.4	0	0	0	0	0	0	0	0
8/2/2024 8:57	20403	ASHF_T2	1	9	8	0.2	0.41	0.21	1.98	2.03	0	0	0	0	0	0
8/2/2024 8:57	20401	ASHF_T2	4	5	1	1	0.7	-0.3	0	0	0	0	0	0	0	0
8/2/2024 8:58	64204	KINZ_T1	1	3	2	0.8	0.8	0	0	0	0	0	0	0	0	0
8/2/2024 8:58	64203	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/2/2024 8:58	64201	KINZ_T1	0	0	0	0	0	0	-0.01	-0.03	4	4	0	2100	2100	0
8/2/2024 9:03	64201	KINZ_T1	0	0	0	0	0	0	-0.01	-0.03	4	4	0	2100	2100	0
8/2/2024 9:03	64204	KINZ_T1	2	3	1	0.65	0.35	-0.3	0	0	0	0	0	0	0	0
8/2/2024 9:03	64202	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 9:03	64203	KINZ_T1	1	2	1	0.2	0.9	0.7	0	0	0	0	0	0	0	0
8/2/2024 9:03	56501	ROCK_T2	1	1	0	0.5	0.8	0.3	-0.66	-0.64	0	0	0	0	0	0
8/2/2024 9:05	56501	ROCK_T2	1	1	0	0.5	0.8	0.3	-0.66	-0.64	0	0	0	0	0	0
8/2/2024 9:08	56501	ROCK_T2	1	1	0	0.5	0.8	0.3	-0.64	-0.62	0	0	0	0	0	0
8/2/2024 9:12	45802	HEGI_T2	1	5	4	0.3	0.3	0	0.61	0.54	1	1	0	300	300	0
8/2/2024 9:13	45802	HEGI_T2	1	5	4	0.3	0.3	0	0.61	0.54	1	1	0	300	300	0
8/2/2024 9:18	64302	LINC_T2	28	76	48	0.86	0.69	-0.17	1.81	1.89	0	0	0	0	0	0
8/2/2024 9:18	55002	NEWP_T1	3	3	0	0.63	0.67	0.04	0	0	0	0	0	0	0	0
8/2/2024 9:18	13503	MCMI_T2	8	2	-6	0.28	0.45	0.17	-0.74	-0.72	0	0	0	0	0	0
8/2/2024 9:18	55001	NEWP_T1	0	0	0	0	0	0	-0.77	-0.81	2	2	0	1200	1200	0
8/2/2024 9:19	13503	MCMI_T2	8	2	-6	0.28	0.45	0.17	-1.48	-1.45	0	0	0	0	0	0
8/2/2024 9:21	67602	WARW_T2	2	7	5	0.35	0.27	-0.08	1	0.99	2	2	0	1500	1500	0
8/2/2024 9:22	67602	WARW_T2	2	7	5	0.35	0.27	-0.08	1	0.99	2	2	0	1500	1500	0
8/2/2024 9:24	20402	ASHF_T2	6	7	1	2.6	1.48	-1.12	0	0	0	0	0	0	0	0
8/2/2024 9:24	20401	ASHF_T2	5	5	0	1.46	1.28	-0.18	0	0	0	0	0	0	0	0
8/2/2024 9:24	20403	ASHF_T2	9	7	-2	0.42	0.17	-0.25	1.77	1.72	0	0	0	0	0	0
8/2/2024 9:26	29402	BELT_T1	1	2	1	8.8	4.6	-4.2	0	0	0	0	0	0	0	0
8/2/2024 9:26	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 9:26	67602	WARW_T2	2	7	5	0.35	0.27	-0.08	1	0.99	2	2	0	1500	1500	0
8/2/2024 9:27	53901	HALI_T2	110	0	-110	1.3	0	-1.3	0	0	0	0	0	0	0	0
8/2/2024 9:27	53903	HALI_T2	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
8/2/2024 9:27	53902	HALI_T2	1	1	0	4.9	4.6	-0.3	-0.52	-0.5	0	0	0	0	0	0
8/2/2024 9:28	47001	HUGH_T2	3	3	0	6.1	7.17	1.07	-0.08	-0.14	0	0	0	0	0	0
8/2/2024 9:28	20403	ASHF_T2	9	7	-2	0.42	0.17	-0.25	1.77	1.72	0	0	0	0	0	0
8/2/2024 9:28	20402	ASHF_T2	6	7	1	2.6	1.48	-1.12	0	0	0	0	0	0	0	0
8/2/2024 9:28	20401	ASHF_T2	5	5	0	1.46	1.28	-0.18	0	0	0	0	0	0	0	0
8/2/2024 9:32	47001	HUGH_T2	3	3	0	7.17	7.53	0.36	-0.08	-0.14	0	0	0	0	0	0
8/2/2024 9:34	41902	REED_T1	0	6	6	0	0.25	0.25	0.63	0.65	1	1	0	900	900	0
8/2/2024 9:34	41903	REED_T1	1	4	3	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/2/2024 9:36	41903	REED_T1	1	4	3	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/2/2024 9:36	41902	REED_T1	0	6	6	0	0.25	0.25	0.63	0.65	1	1	0	900	900	0
8/2/2024 9:37	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 9:38	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 9:38	61102	BERK_T5	0	0	0	0	0	0	3.73	1.14	3	6	3	900	3600	2700
8/2/2024 9:38	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 9:40	29402	BELT_T1	2	1	-1	4.6	8.7	4.1	0	0	0	0	0	0	0	0
8/2/2024 9:40	67605	WARW_T1	0	0	0	0	0	0	-1.02	-0.97	0	0	0	0	0	0
8/2/2024 9:40	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 9:40	66203	SISP_T2	0	0	0	0	0	0	-0.07	-0.02	2	2	0	1800	1800	0
8/2/2024 9:40	61102	BERK_T5	0	0	0	0	0	0	1.24	0.38	1	2	1	300	1200	900
8/2/2024 9:41	53501	EVIL_T2	1	1	0	0.9	0.4	-0.5	-1.24	-1.2	6	6	0	3600	3600	0
8/2/2024 9:41	53502	EVIL_T2	2	6	4	0.3	0.55	0.25	0	0	0	0	0	0	0	0
8/2/2024 9:41	61102	BERK_T5	0	0	0	0	0	0	1.24	0.38	1	2	1	300	1200	900
8/2/2024 9:42	43108	SMIL_T2	1	1	0	0.1	0	-0.1	-0.66	-0.64	1	1	0	1200	1200	0
8/2/2024 9:42	53502	EVIL_T2	2	6	4	0.3	0.55	0.25	0	0	0	0	0	0	0	0
8/2/2024 9:42	53501	EVIL_T2	1	1	0	0.9	0.4	-0.5	-0.62	-0.6	3	3	0	1800	1800	0
8/2/2024 9:43	53501	EVIL_T2	1	1	0	0.9	0.4	-0.5	-0.62	-0.6	3	3	0	1800	1800	0
8/2/2024 9:43	53502	EVIL_T2	2	6	4	0.3	0.55	0.25	0	0	0	0	0	0	0	0
8/2/2024 9:44	52002	LING_T2	0	2	2	0	0.2	0.2	0.8	0.81	0	0	0	0	0	0
8/2/2024 9:44	52004	LING_T2	2	2	0	4.6	4.6	0	0	0	0	0	0	0	0	0
8/2/2024 9:45	53501	EVIL_T2	1	0	-1	0.4	0	-0.4	-0.62	-0.6	3	3	0	1800	1800	0
8/2/2024 9:45	40101	HUNT_T2	52	36	-16	0.5	0.43	-0.07	0.11	-0.95	0	0	0	0	0	0
8/2/2024 9:45	53502	EVIL_T2	4	9	5	0.55	0.84	0.29	0	0	0	0	0	0	0	0
8/2/2024 9:47	52004	LING_T2	2	2	0	4.6	4.75	0.15	0	0	0	0	0	0	0	0
8/2/2024 9:47	52002	LING_T2	2	1	-1	0.15	0	-0.15	0.8	0.81	0	0	0	0	0	0
8/2/2024 9:48	59003	MIFF_T1	1	0	-1	0.4	0	-0.4	-0.74	-0.9	0	0	0	0	0	0
8/2/2024 9:48	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 9:51	67602	WARW_T2	7	2	-5	0.39	0.45	0.06	1.01	1.14	2	2	0	1500	1500	0
8/2/2024 9:55	20403	ASHF_T2	6	9	3	0.22	0.2	-0.02	1	1.02	0	0	0	0	0	0
8/2/2024 9:55	44801	EDAN_T2	1	1	0	1	0.9	-0.1	-2.22	-2.08	0	0	0	0	0	0
8/2/2024 9:55	20402	ASHF_T2	6	9	3	1.48	1.19	-0.29	0	0	0	0	0	0	0	0
8/2/2024 9:55	20401	ASHF_T2	5	6	1	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
8/2/2024 9:57	20601	GRWO_T2	108	205	97	0.7	0.84	0.14	0.51	0.49	1	1	0	1200	1200	0
8/2/2024 9:59	52404	GRPA_T2	0	0	0	0	0	0	1.79	1.38	0	0	0	0	0	0
8/2/2024 9:59	52403	GRPA_T2	3	4	1	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
8/2/2024 9:59	20601	GRWO_T2	108	205	97	0.7	0.84	0.14	0.51	0.49	1	1	0	1200	1200	0
8/2/2024 10:00	40603	PIGR_T1	0	3	3	0	0	0	0.64	0.69	0	0	0	0	0	0
8/2/2024 10:00	55002	NEWP_T1	3	3	0	0.33	0.37	0.04	0	0	0	0	0	0	0	0
8/2/2024 10:00	40504	CRES_T1	13	13	0	1.49	1.17	-0.32	0	0	0	0	0	0	0	0
8/2/2024 10:00	54201	PENN_T1	3	3	0	1.37	1.6	0.23	-1.54	-1.56	0	0	0	0	0	0
8/2/2024 10:00	23401	HONE_T2	0	1	1	0	0	0	-0.12	-0.17	0	0	0	0	0	0
8/2/2024 10:00	54203	PENN_T1	5	5	0	0.52	0.7	0.18	0	0	0	0	0	0	0	0
8/2/2024 10:00	40505	CRES_T1	0	3	3	0	0.17	0.17	0.89	0.95	0	0	0	0	0	0
8/2/2024 10:00	40602	PIGR_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
8/2/2024 10:00	40503	CRES_T1	3	5	2	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
8/2/2024 10:00	67503	WEWI_T2	0	1	1	0	0	0	0.61	0.63	0	0	0	0	0	0
8/2/2024 10:00	40601	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 10:00	55001	NEWP_T1	0	0	0	0	0	0	-0.67	-0.68	2	2	0	1200	1200	0
8/2/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
8/2/2024 10:00	53902	HALI_T2	1	1	0	3.9	3.8	-0.1	-0.49	-0.48	0	0	0	0	0	0
8/2/2024 10:01	46506	LOHA_T1	0	0	0	0	0	0	-1.83	-1.83	1	1	0	1200	1200	0
8/2/2024 10:01	46501	LOHA_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/2/2024 10:04	44203	POIN_T2	2	5	3	0.7	0.3	-0.4	-0.38	-0.34	3	3	0	3300	3300	0
8/2/2024 10:04	44202	POIN_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/2/2024 10:08	29402	BELT_T1	1	1	0	8.6	8.8	0.2	0	0	0	0	0	0	0	0
8/2/2024 10:08	29401	BELT_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
8/2/2024 10:09	20403	ASHF_T2	9	5	-4	0.28	0.2	-0.08	1.02	0.94	0	0	0	0	0	0
8/2/2024 10:09	40602	PIGR_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
8/2/2024 10:09	45502	DERR_T2	1	2	1	1.9	1	-0.9	0	0	0	0	0	0	0	0
8/2/2024 10:09	40603	PIGR_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 10:09	40601	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 10:09	25603	ARRO_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
8/2/2024 10:09	20402	ASHF_T2	7	10	3	1.19	1.14	-0.05	0	0	0	0	0	0	0	0
8/2/2024 10:09	45501	DERR_T2	5	8	3	0.7	1.07	0.37	1.04	1.08	2	2	0	1800	1800	0
8/2/2024 10:09	20401	ASHF_T2	5	6	1	0.8	1.24	0.44	0	0	0	0	0	0	0	0
8/2/2024 10:10	46205	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/2/2024 10:10	46206	DANV_T2	60	67	7	0.66	0.66	0	1.81	1.76	2	2	0	2100	2100	0
8/2/2024 10:10	20403	ASHF_T2	9	5	-4	0.28	0.2	-0.08	2.04	1.89	0	0	0	0	0	0
8/2/2024 10:10	46203	DANV_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/2/2024 10:10	46204	DANV_T2	20	31	11	0.42	0.45	0.03	0	0	0	0	0	0	0	0
8/2/2024 10:10	45501	DERR_T2	5	8	3	0.7	1.07	0.37	1.04	1.08	2	2	0	1800	1800	0
8/2/2024 10:10	45502	DERR_T2	1	2	1	1.9	1	-0.9	0	0	0	0	0	0	0	0
8/2/2024 10:10	20401	ASHF_T2	5	6	1	0.8	1.24	0.44	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/2/2024 10:10	20402	ASHF_T2	7	10	3	1.19	1.14	-0.05	0	0	0	0	0	0	0	0
8/2/2024 10:11	44801	EDAN_T2	1	2	1	0.9	0.95	0.05	-2.08	-2.04	0	0	0	0	0	0
8/2/2024 10:11	46206	DANV_T2	60	67	7	0.66	0.66	0	1.81	1.76	2	2	0	2100	2100	0
8/2/2024 10:11	46203	DANV_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/2/2024 10:11	29402	BELT_T1	1	1	0	8.6	8.8	0.2	0	0	0	0	0	0	0	0
8/2/2024 10:11	20401	ASHF_T2	5	6	1	0.8	1.24	0.44	0	0	0	0	0	0	0	0
8/2/2024 10:11	46204	DANV_T2	20	31	11	0.42	0.45	0.03	0	0	0	0	0	0	0	0
8/2/2024 10:11	20403	ASHF_T2	9	5	-4	0.28	0.2	-0.08	2.04	1.89	0	0	0	0	0	0
8/2/2024 10:11	46205	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/2/2024 10:11	20402	ASHF_T2	7	10	3	1.19	1.14	-0.05	0	0	0	0	0	0	0	0
8/2/2024 10:11	29401	BELT_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
8/2/2024 10:12	63403	HONY_T2	0	1	1	0	0	0	-0.47	-0.45	1	1	0	600	600	0
8/2/2024 10:13	53601	DALM_T2	0	0	0	0	0	0	-0.68	-0.47	2	2	0	1500	1500	0
8/2/2024 10:13	20601	GRWO_T2	145	231	86	0.84	0.92	0.08	0.49	0.56	1	1	0	1200	1200	0
8/2/2024 10:14	64204	KINZ_T1	2	3	1	0.55	0.6	0.05	0	0	0	0	0	0	0	0
8/2/2024 10:14	64202	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/2/2024 10:14	64201	KINZ_T1	0	2	2	0	0	0	0	-1.06	4	5	1	2100	3300	1200
8/2/2024 10:14	64203	KINZ_T1	2	2	0	1.9	1.95	0.05	0	0	0	0	0	0	0	0
8/2/2024 10:15	20601	GRWO_T2	204	284	80	0.93	0.93	0	0.49	0.56	1	1	0	1200	1200	0
8/2/2024 10:16	46506	LOHA_T1	0	0	0	0	0	0	-1.83	-1.85	1	1	0	1200	1200	0
8/2/2024 10:16	64302	LINC_T2	42	8	-34	0.61	0.84	0.23	2.03	1.2	0	0	0	0	0	0
8/2/2024 10:16	13503	MCMI_T2	3	2	-1	0.47	0.55	0.08	-1.33	-1.27	0	0	0	0	0	0
8/2/2024 10:16	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 10:17	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 10:17	46506	LOHA_T1	0	0	0	0	0	0	-1.83	-1.85	1	1	0	1200	1200	0
8/2/2024 10:17	13503	MCMI_T2	3	2	-1	0.47	0.55	0.08	-0.66	-0.63	0	0	0	0	0	0
8/2/2024 10:19	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 10:19	46506	LOHA_T1	0	0	0	0	0	0	-1.83	-1.85	1	1	0	1200	1200	0
8/2/2024 10:19	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 10:19	56501	ROCK_T2	1	11	10	0.3	0.35	0.05	-0.51	-1.75	0	0	0	0	0	0
8/2/2024 10:20	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 10:20	42201	SHEN_T2	0	0	0	0	0	0	0.35	0.32	1	1	0	600	600	0
8/2/2024 10:21	41903	REED_T1	4	5	1	0.4	0.58	0.18	0	0	0	0	0	0	0	0
8/2/2024 10:21	56501	ROCK_T2	1	11	10	0.3	0.35	0.05	-1.02	-3.5	0	0	0	0	0	0
8/2/2024 10:21	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 10:21	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 10:21	41902	REED_T1	26	56	30	0.44	0.39	-0.05	0.76	0.74	1	1	0	900	900	0
8/2/2024 10:22	56501	ROCK_T2	1	11	10	0.3	0.35	0.05	-3.5	-3.45	0	0	0	0	0	0
8/2/2024 10:24	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 10:24	41902	REED_T1	26	56	30	0.44	0.39	-0.05	0.74	0.74	1	1	0	900	900	0
8/2/2024 10:24	41903	REED_T1	4	5	1	0.4	0.58	0.18	0	0	0	0	0	0	0	0
8/2/2024 10:24	56501	ROCK_T2	1	11	10	0.3	0.35	0.05	-1.75	-1.73	0	0	0	0	0	0
8/2/2024 10:29	22903	HARW_T1	8	21	13	0.6	0.54	-0.06	0	0	0	0	0	0	0	0
8/2/2024 10:29	22905	HARW_T1	0	12	12	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 10:29	52403	GRPA_T2	4	8	4	0.4	0.52	0.12	0	0	0	0	0	0	0	0
8/2/2024 10:29	67602	WARW_T2	2	4	2	0.45	0.53	0.08	1.06	1.09	2	2	0	1500	1500	0
8/2/2024 10:29	22901	HARW_T1	0	11	11	0	0	0	0.07	0.17	1	1	0	1200	1200	0
8/2/2024 10:29	52404	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/2/2024 10:29	52401	GRPA_T2	0	2	2	0	0	0	-0.28	-0.27	0	0	0	0	0	0
8/2/2024 10:32	16402	MOPO_T1	0	0	0	0	0	0	0.91	0.63	0	0	0	0	0	0
8/2/2024 10:33	16402	MOPO_T1	0	0	0	0	0	0	0.91	0.63	0	0	0	0	0	0
8/2/2024 10:34	25503	MADI_T1	0	0	0	0	0	0	-0.63	-0.59	0	0	0	0	0	0
8/2/2024 10:34	42201	SHEN_T2	0	0	0	0	0	0	0.32	0.38	1	1	0	600	600	0
8/2/2024 10:34	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 10:34	25501	MADI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/2/2024 10:34	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/2/2024 10:36	54201	PENN_T1	3	19	16	1.2	0.36	-0.84	-1.54	-1.48	0	0	0	0	0	0
8/2/2024 10:36	54203	PENN_T1	5	5	0	0.14	0.68	0.54	0	0	0	0	0	0	0	0
8/2/2024 10:36	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 10:37	55101	WERT_T1	9	15	6	0.78	0.32	-0.46	-3.32	-3.47	8	8	0	6600	6600	0
8/2/2024 10:38	29402	BELT_T1	1	4	3	8.8	8.6	-0.2	0	0	0	0	0	0	0	0
8/2/2024 10:38	43101	SMIL_T2	2	2	0	0.7	0.1	-0.6	-0.37	-0.34	0	0	0	0	0	0
8/2/2024 10:38	43105	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/2/2024 10:38	43108	SMIL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/2/2024 10:39	55101	WERT_T1	9	15	6	0.78	0.32	-0.46	-1.66	-1.73	4	4	0	3300	3300	0
8/2/2024 10:39	25603	ARRO_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
8/2/2024 10:40	55101	WERT_T1	9	15	6	0.78	0.32	-0.46	-4.98	-5.2	12	12	0	9900	9900	0
8/2/2024 10:40	60502	NMAN_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
8/2/2024 10:40	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 10:40	56501	ROCK_T2	6	27	21	0.18	0.27	0.09	-1.73	-1.62	0	0	0	0	0	0
8/2/2024 10:42	61102	BERK_T5	0	0	0	0	0	0	0.48	0.62	2	2	0	1200	1200	0
8/2/2024 10:42	67602	WARW_T2	3	4	1	0.53	0.6	0.07	1.09	1.11	2	2	0	1500	1500	0
8/2/2024 10:42	51904	COPA_T1	0	1	1	0	0.3	0.3	-1.17	-1.11	2	2	0	1200	1200	0
8/2/2024 10:43	67603	WARW_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
8/2/2024 10:44	46206	DANV_T2	59	57	-2	0.75	0.56	-0.19	0	0	0	0	0	0	0	0
8/2/2024 10:44	26401	INOR_T1	6	12	6	1.13	1.05	-0.08	0	0	0	0	0	0	0	0
8/2/2024 10:44	46203	DANV_T2	0	1	1	0	0.1	0.1	-1.2	-1.19	0	0	0	0	0	0
8/2/2024 10:44	46204	DANV_T2	30	37	7	0.69	0.45	-0.24	0	0	0	0	0	0	0	0
8/2/2024 10:44	26402	INOR_T1	2	5	3	0.3	0	-0.3	-1.28	-1.29	1	1	0	600	600	0
8/2/2024 10:44	67602	WARW_T2	3	4	1	0.53	0.6	0.07	2.18	2.23	4	4	0	3000	3000	0
8/2/2024 10:44	67605	WARW_T1	0	0	0	0	0	0	-0.85	-0.79	0	0	0	0	0	0
8/2/2024 10:44	61102	BERK_T5	0	0	0	0	0	0	0.48	0.62	2	2	0	1200	1200	0
8/2/2024 10:45	67605	WARW_T1	0	0	0	0	0	0	-0.85	-0.79	0	0	0	0	0	0
8/2/2024 10:46	47001	HUGH_T2	3	3	0	7.8	7.8	0	-0.01	0	0	0	0	0	0	0
8/2/2024 10:47	47001	HUGH_T2	3	3	0	7.8	7.8	0	-0.01	0	0	0	0	0	0	0
8/2/2024 10:47	64201	KINZ_T1	0	10	10	0	0	0	-1.12	-0.65	5	5	0	3300	3300	0
8/2/2024 10:47	40101	HUNT_T2	21	79	58	0.31	0.52	0.21	-0.81	-0.8	0	0	0	0	0	0
8/2/2024 10:47	67605	WARW_T1	0	0	0	0	0	0	-0.85	-0.79	0	0	0	0	0	0
8/2/2024 10:47	64202	KINZ_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
8/2/2024 10:47	64204	KINZ_T1	2	2	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
8/2/2024 10:47	45802	HEGI_T2	3	25	22	0.17	0.31	0.14	0.55	0.67	1	1	0	300	300	0
8/2/2024 10:47	64203	KINZ_T1	6	7	1	0.7	2	1.3	0	0	0	0	0	0	0	0
8/2/2024 10:48	64101	REFR_T1	11	11	0	2.71	2.66	-0.05	0.16	0.18	0	0	0	0	0	0
8/2/2024 10:48	64203	KINZ_T1	6	7	1	0.7	2	1.3	0.73	0.73	3	3	0	2100	2100	0
8/2/2024 10:48	64201	KINZ_T1	0	10	10	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 10:48	45802	HEGI_T2	3	25	22	0.17	0.31	0.14	0.55	0.67	1	1	0	300	300	0
8/2/2024 10:48	64202	KINZ_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
8/2/2024 10:48	64204	KINZ_T1	2	2	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
8/2/2024 10:49	64101	REFR_T1	11	11	0	2.71	2.66	-0.05	0.08	0.09	0	0	0	0	0	0
8/2/2024 10:49	40101	HUNT_T2	21	79	58	0.31	0.52	0.21	-0.81	-0.8	0	0	0	0	0	0
8/2/2024 10:50	64101	REFR_T1	11	11	0	2.71	2.66	-0.05	0.08	0.09	0	0	0	0	0	0
8/2/2024 10:51	65205	PRIN_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
8/2/2024 10:51	63202	MGTN_T2	0	0	0	0	0	0	-0.47	-0.63	1	1	0	900	900	0
8/2/2024 10:51	65601	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 10:51	65802	RTWN_T2	0	0	0	0	0	0	-0.32	-0.28	0	0	0	0	0	0
8/2/2024 10:51	65604	QVIL_T2	1	4	3	1.5	0	-1.5	1.01	1.04	0	0	0	0	0	0
8/2/2024 10:51	63201	MGTN_T2	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/2/2024 10:52	57702	PAXT_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
8/2/2024 10:52	64101	REFR_T1	11	11	0	2.71	2.66	-0.05	0.28	0.56	0	0	0	0	0	0
8/2/2024 10:54	57103	SPHI_T2	0	0	0	0	0	0	-0.16	-0.11	1	1	0	600	600	0
8/2/2024 10:54	64101	REFR_T1	11	11	0	2.71	2.66	-0.05	0.09	0.19	0	0	0	0	0	0
8/2/2024 10:54	57106	SPHI_T2	2	1	-1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
8/2/2024 10:58	45801	HEGI_T1	1	1	0	0.2	0	-0.2	0.08	0.08	1	1	0	900	900	0
8/2/2024 10:58	67602	WARW_T2	4	5	1	0.48	0.7	0.22	1.11	1.13	2	2	0	1500	1500	0
8/2/2024 10:59	64204	KINZ_T1	2	2	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
8/2/2024 10:59	45801	HEGI_T1	1	1	0	0.2	0	-0.2	0.08	0.08	1	1	0	900	900	0
8/2/2024 10:59	47101	MARL_T1	53	142	89	1.07	0.9	-0.17	-0.4	-0.45	1	1	0	600	600	0
8/2/2024 10:59	64203	KINZ_T1	6	7	1	0.7	2	1.3	0	0	0	0	0	0	0	0
8/2/2024 10:59	52004	LING_T2	2	3	1	4.55	3.33	-1.22	0	0	0	0	0	0	0	0
8/2/2024 10:59	52002	LING_T2	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
8/2/2024 10:59	45502	DERR_T2	3	5	2	0.7	0.75	0.05	0	0	1	1	0	300	300	0
8/2/2024 10:59	64202	KINZ_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
8/2/2024 10:59	45501	DERR_T2	7	9	2	0.93	0.77	-0.16	0	0	0	0	0	0	0	0
8/2/2024 10:59	47104	MARL_T1	3	13	10	1.03	0.8	-0.23	0	0	0	0	0	0	0	0
8/2/2024 10:59	64201	KINZ_T1	0	10	10	0	0	0	-0.65	-0.76	5	5	0	3300	3300	0
8/2/2024 11:00	67605	WARW_T1	0	0	0	0	0	0	-0.79	-0.77	0	0	0	0	0	0
8/2/2024 11:01	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 11:01	42902	MIDD_T2	7	28	21	1.21	0.9	-0.31	0.05	0.05	1	1	0	600	600	0
8/2/2024 11:01	52002	LING_T2	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
8/2/2024 11:01	42901	MIDD_T2	11	15	4	0.81	0.79	-0.02	0	0	0	0	0	0	0	0
8/2/2024 11:01	52004	LING_T2	2	4	2	4.85	3.17	-1.68	0	0	0	0	0	0	0	0
8/2/2024 11:02	67602	WARW_T2	3	9	6	0.7	0.68	-0.02	1.11	1.13	2	2	0	1500	1500	0
8/2/2024 11:02	42902	MIDD_T2	7	28	21	1.21	0.9	-0.31	0.09	0.09	2	2	0	1200	1200	0
8/2/2024 11:02	42901	MIDD_T2	11	15	4	0.81	0.79	-0.02	0	0	0	0	0	0	0	0
8/2/2024 11:02	65001	NEFF_T2	0	0	0	0	0	0	0.53	0.64	1	1	0	1200	1200	0
8/2/2024 11:03	64202	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
8/2/2024 11:03	64204	KINZ_T1	1	5	4	1.1	0.95	-0.15	0	0	0	0	0	0	0	0
8/2/2024 11:03	64203	KINZ_T1	2	7	5	2	2.45	0.45	0	0	0	0	0	0	0	0
8/2/2024 11:03	64201	KINZ_T1	0	17	17	0	0.34	0.34	-0.65	-0.76	5	5	0	3300	3300	0
8/2/2024 11:04	47101	MARL_T1	109	230	121	0.91	0.93	0.02	-0.4	-0.45	1	1	0	600	600	0
8/2/2024 11:04	40101	HUNT_T2	39	121	82	0.51	0.49	-0.02	-1.6	-1.54	0	0	0	0	0	0
8/2/2024 11:04	42901	MIDD_T2	11	15	4	0.81	0.79	-0.02	0	0	0	0	0	0	0	0
8/2/2024 11:04	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 11:04	47104	MARL_T1	3	17	14	0.4	0.48	0.08	0	0	0	0	0	0	0	0
8/2/2024 11:04	42902	MIDD_T2	7	28	21	1.21	0.9	-0.31	0	0	0	0	0	0	0	0
8/2/2024 11:04	64101	REFR_T1	10	13	3	2.66	3.32	0.66	0.09	0.19	0	0	0	0	0	0
8/2/2024 11:04	52002	LING_T2	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
8/2/2024 11:04	52004	LING_T2	2	4	2	4.85	3.17	-1.68	0	0	0	0	0	0	0	0
8/2/2024 11:05	42901	MIDD_T2	11	15	4	0.81	0.79	-0.02	0	0	0	0	0	0	0	0
8/2/2024 11:05	42902	MIDD_T2	7	28	21	1.21	0.9	-0.31	0.09	0.09	2	2	0	1200	1200	0
8/2/2024 11:08	20402	ASHF_T2	22	26	4	1.97	1.09	-0.88	0	0	0	0	0	0	0	0
8/2/2024 11:08	20403	ASHF_T2	20	48	28	0.53	0.83	0.3	1.34	1.39	0	0	0	0	0	0
8/2/2024 11:08	20401	ASHF_T2	10	47	37	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
8/2/2024 11:09	20402	ASHF_T2	22	26	4	1.97	1.09	-0.88	0	0	0	0	0	0	0	0
8/2/2024 11:09	20401	ASHF_T2	10	47	37	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
8/2/2024 11:09	20403	ASHF_T2	20	48	28	0.53	0.83	0.3	1.34	1.39	0	0	0	0	0	0
8/2/2024 11:11	53601	DALM_T2	1	2	1	0.5	0.5	0	-0.64	-0.56	2	2	0	1500	1500	0
8/2/2024 11:12	67605	WARW_T1	0	0	0	0	0	0	-0.77	-0.74	0	0	0	0	0	0
8/2/2024 11:16	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 11:16	52004	LING_T2	3	4	1	3.17	3.07	-0.1	0.55	0.59	0	0	0	0	0	0
8/2/2024 11:21	67801	WLAN_T1	64	65	1	1.09	1.08	-0.01	-0.68	-0.64	0	0	0	0	0	0
8/2/2024 11:21	67804	WLAN_T1	10	10	0	1.92	1.64	-0.28	0	0	0	0	0	0	0	0
8/2/2024 11:21	27502	WEIS_T2	39	59	20	0.85	1.22	0.37	0.29	0.46	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/2/2024 11:22	65601	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/2/2024 11:22	65604	QVIL_T2	4	5	1	1.3	0.15	-1.15	1.06	1.07	0	0	0	0	0	0
8/2/2024 11:25	40201	BEGA_T2	5	18	13	1.78	1.24	-0.54	0	0	0	0	0	0	0	0
8/2/2024 11:26	40201	BEGA_T2	5	18	13	1.78	1.24	-0.54	0	0	0	0	0	0	0	0
8/2/2024 11:27	61701	ELIZ_T1	1	1	0	2.2	2	-0.2	0	0	0	0	0	0	0	0
8/2/2024 11:27	61703	ELIZ_T1	0	0	0	0	0	0	-2.26	-2.25	2	2	0	2100	2100	0
8/2/2024 11:28	61701	ELIZ_T1	1	1	0	2.2	2	-0.2	0	0	0	0	0	0	0	0
8/2/2024 11:28	61703	ELIZ_T1	0	0	0	0	0	0	-2.26	-2.25	2	2	0	2100	2100	0
8/2/2024 11:29	51603	DUKE_T1	0	0	0	0	0	0	0.33	0.37	0	0	0	0	0	0
8/2/2024 11:30	61701	ELIZ_T1	1	1	0	1.9	2.5	0.6	0	0	0	0	0	0	0	0
8/2/2024 11:30	61703	ELIZ_T1	0	0	0	0	0	0	-4.52	-4.49	4	4	0	4200	4200	0
8/2/2024 11:31	61505	EPET_T1	0	1	1	0	0	0	0.66	0.72	0	0	0	0	0	0
8/2/2024 11:33	64802	MONE_T2	1	1	0	0.5	0.4	-0.1	0.53	0.49	0	0	0	0	0	0
8/2/2024 11:33	64904	MILL_T1	0	0	0	0	0	0	0.72	-0.39	0	0	0	0	0	0
8/2/2024 11:33	64801	MONE_T2	4	2	-2	0.33	0.5	0.17	0	0	0	0	0	0	0	0
8/2/2024 11:33	47101	MARL_T1	229	357	128	0.82	0.83	0.01	-0.29	-0.29	1	1	0	600	600	0
8/2/2024 11:33	47104	MARL_T1	17	16	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
8/2/2024 11:34	47104	MARL_T1	17	16	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
8/2/2024 11:34	47101	MARL_T1	229	357	128	0.82	0.83	0.01	-0.29	-0.29	1	1	0	600	600	0
8/2/2024 11:34	64101	REFR_T1	13	15	2	2.83	2.11	-0.72	0.16	0.17	0	0	0	0	0	0
8/2/2024 11:35	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/2/2024 11:35	65604	QVIL_T2	2	9	7	0.4	0.13	-0.27	0	0	0	0	0	0	0	0
8/2/2024 11:35	65603	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 11:35	65601	QVIL_T2	0	0	0	0	0	0	0.48	0.5	1	1	0	900	900	0
8/2/2024 11:41	64302	LINC_T2	10	10	0	0.94	0.84	-0.1	1.25	1.15	0	0	0	0	0	0
8/2/2024 11:46	54201	PENN_T1	19	36	17	0.46	0.33	-0.13	0	0	0	0	0	0	0	0
8/2/2024 11:46	54203	PENN_T1	18	17	-1	0.32	0.37	0.05	1.26	1.23	0	0	0	0	0	0
8/2/2024 11:49	66703	STRA_T1	2	13	11	0.4	0.27	-0.13	0.2	0.24	0	0	0	0	0	0
8/2/2024 11:49	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 11:56	40101	HUNT_T2	116	153	37	0.57	0.54	-0.03	-0.76	-0.69	0	0	0	0	0	0
8/2/2024 12:06	67804	WLAN_T1	10	10	0	1.5	1.46	-0.04	0	0	0	0	0	0	0	0
8/2/2024 12:06	57004	WHHI_T2	1	0	-1	0.3	0	-0.3	-0.41	-0.35	0	0	0	0	0	0
8/2/2024 12:06	48301	ORWI_T1	9	9	0	0.48	0.35	-0.13	0.42	0.4	1	1	0	900	900	0
8/2/2024 12:06	67803	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 12:06	57006	WHHI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/2/2024 12:06	67801	WLAN_T1	95	166	71	0.91	1.03	0.12	0	0	0	0	0	0	0	0
8/2/2024 12:06	57001	WHHI_T2	0	0	0	0	0	0	-0.56	-0.6	1	1	0	900	900	0
8/2/2024 12:06	67805	WLAN_T1	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
8/2/2024 12:07	57002	WHHI_T2	0	0	0	0	0	0	-2.81	-2.88	2	2	0	2400	2400	0
8/2/2024 12:07	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 12:07	57001	WHHI_T2	0	0	0	0	0	0	-0.6	-0.58	1	1	0	900	900	0
8/2/2024 12:07	57004	WHHI_T2	1	0	-1	0.3	0	-0.3	-0.17	-0.19	0	0	0	0	0	0
8/2/2024 12:07	57006	WHHI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/2/2024 12:07	61402	SLIT_T1	1	3	2	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/2/2024 12:07	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/2/2024 12:12	57006	WHHI_T2	0	1	1	0	0.4	0.4	2.21	2.19	2	2	0	1200	1200	0
8/2/2024 12:12	24101	EHAZ_T1	23	26	3	1.67	1.25	-0.42	0	0	0	0	0	0	0	0
8/2/2024 12:12	57004	WHHI_T2	1	0	-1	0.3	0	-0.3	-0.17	-0.19	0	0	0	0	0	0
8/2/2024 12:12	24105	EHAZ_T1	4	4	0	6.4	6.28	-0.12	-1.66	-1.61	1	1	0	1200	1200	0
8/2/2024 12:12	24102	EHAZ_T1	10	4	-6	1.04	0.85	-0.19	0	0	0	0	0	0	0	0
8/2/2024 12:13	57006	WHHI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/2/2024 12:13	57004	WHHI_T2	1	0	-1	0.3	0	-0.3	-0.17	-0.19	0	0	0	0	0	0
8/2/2024 12:14	46302	ROHR_T1	5	7	2	0.24	0.62	0.38	0.48	0.47	0	0	0	0	0	0
8/2/2024 12:15	64101	REFR_T1	15	11	-4	3.27	1.75	-1.52	0.23	-0.29	0	0	0	0	0	0
8/2/2024 12:16	66902	SHIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 12:16	66901	SHIL_T2	0	0	0	0	0	0	-1.53	-1.52	1	1	0	1200	1200	0
8/2/2024 12:18	45402	WBLO_T2	0	0	0	0	0	0	-0.65	-0.7	1	1	0	900	900	0
8/2/2024 12:18	64101	REFR_T1	15	11	-4	3.27	1.75	-1.52	0.23	-0.29	0	0	0	0	0	0
8/2/2024 12:18	46302	ROHR_T1	5	5	0	0.64	0.65	0.01	0.48	0.47	0	0	0	0	0	0
8/2/2024 12:21	67804	WLAN_T1	10	10	0	1.46	1.74	0.28	0	0	0	0	0	0	0	0
8/2/2024 12:21	67803	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 12:21	67801	WLAN_T1	108	177	69	1.03	0.87	-0.16	-0.54	-0.57	0	0	0	0	0	0
8/2/2024 12:21	67605	WARW_T1	0	0	0	0	0	0	-0.61	-0.55	0	0	0	0	0	0
8/2/2024 12:24	67602	WARW_T2	73	46	-27	0.43	0.47	0.04	1.24	1.23	2	2	0	1500	1500	0
8/2/2024 12:24	67601	WARW_T2	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/2/2024 12:25	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/2/2024 12:25	63802	HEMP_T1	0	0	0	0	0	0	0.3	0.33	0	0	0	0	0	0
8/2/2024 12:25	63804	HEMP_T1	2	2	0	5.1	4.15	-0.95	0	0	0	0	0	0	0	0
8/2/2024 12:26	50501	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/2/2024 12:26	50506	MECH_T1	0	0	0	0	0	0	0.82	0.76	1	1	0	900	900	0
8/2/2024 12:26	50502	MECH_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
8/2/2024 12:29	40101	HUNT_T2	66	38	-28	0.53	0.26	-0.27	0	0	0	0	0	0	0	0
8/2/2024 12:29	51004	NHAR_T1	1	1	0	6.9	6.6	-0.3	0	0	0	0	0	0	0	0
8/2/2024 12:29	51003	NHAR_T1	0	0	0	0	0	0	-1.24	-1.34	1	1	0	1200	1200	0
8/2/2024 12:29	51202	MTON_T2	0	0	0	0	0	0	0.57	0.6	0	0	0	0	0	0
8/2/2024 12:30	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/2/2024 12:31	50506	MECH_T1	0	0	0	0	0	0	0.82	0.76	1	1	0	900	900	0
8/2/2024 12:31	50501	MECH_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/2/2024 12:31	50502	MECH_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
8/2/2024 12:32	44903	SCOT_T1	4	1	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
8/2/2024 12:32	44905	SCOT_T1	7	16	9	0.66	0.63	-0.03	0	0	0	0	0	0	0	0
8/2/2024 12:32	44904	SCOT_T1	4	4	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/2/2024 12:33	65903	SAKR_T2	1	1	0	2.2	1.7	-0.5	0	0	0	0	0	0	0	0
8/2/2024 12:33	65901	SAKR_T2	2	17	15	2.3	0.71	-1.59	0.1	0.28	2	2	0	1500	1500	0
8/2/2024 12:34	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 12:36	27502	WEIS_T2	337	617	280	0.71	0.83	0.12	0.25	0.27	0	0	0	0	0	0
8/2/2024 12:36	58402	MORO_T1	0	0	0	0	0	0	0.6	0.61	2	2	0	1500	1500	0
8/2/2024 12:38	65901	SAKR_T2	2	17	15	2.3	0.71	-1.59	0.28	0.16	2	2	0	1500	1500	0
8/2/2024 12:38	65903	SAKR_T2	1	1	0	2.2	1.7	-0.5	0	0	0	0	0	0	0	0
8/2/2024 12:41	52402	GRPA_T2	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
8/2/2024 12:41	52403	GRPA_T2	1	1	0	0.5	0.3	-0.2	-0.19	-0.2	1	1	0	0	0	0
8/2/2024 12:44	64204	KINZ_T1	3	10	7	0.73	0.66	-0.07	0	0	0	0	0	0	0	0
8/2/2024 12:44	64202	KINZ_T1	4	24	20	0.4	0.34	-0.06	0	0	0	0	0	0	0	0
8/2/2024 12:44	64203	KINZ_T1	28	46	18	0.83	0.85	0.02	0.59	0.36	3	3	0	2100	2100	0
8/2/2024 12:44	64201	KINZ_T1	12	217	205	0.35	0.37	0.02	0	0	0	0	0	0	0	0
8/2/2024 12:48	64101	REFR_T1	11	11	0	3.31	2.02	-1.29	-0.3	-0.27	0	0	0	0	0	0
8/2/2024 12:49	64101	REFR_T1	11	11	0	3.31	2.02	-1.29	-0.3	-0.27	0	0	0	0	0	0
8/2/2024 12:50	65901	SAKR_T2	9	22	13	0.79	0.51	-0.28	0	0	0	0	0	0	0	0
8/2/2024 12:50	65902	SAKR_T2	0	1	1	0	0	0	-0.85	-0.8	2	2	0	1200	1200	0
8/2/2024 12:50	65903	SAKR_T2	1	1	0	2.2	1.7	-0.5	0	0	0	0	0	0	0	0
8/2/2024 12:52	22905	HARW_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/2/2024 12:52	22901	HARW_T1	23	24	1	0.82	0.91	0.09	0.03	0.21	1	1	0	1200	1200	0
8/2/2024 12:52	22903	HARW_T1	26	26	0	2.35	1.23	-1.12	0	0	0	0	0	0	0	0
8/2/2024 12:54	63602	LETO_T1	2	1	-1	0.95	0.9	-0.05	0.29	0.32	1	1	0	600	600	0
8/2/2024 12:54	67602	WARW_T2	42	150	108	0.44	0.6	0.16	1.23	1.37	2	2	0	1500	1500	0
8/2/2024 12:56	46506	LOHA_T1	122	160	38	0.17	0.21	0.04	-1.82	-1.82	2	2	0	2100	2100	0
8/2/2024 12:56	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 12:56	63602	LETO_T1	2	1	-1	0.95	0.9	-0.05	0.29	0.32	1	1	0	600	600	0
8/2/2024 12:57	63803	HEMP_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/2/2024 12:57	63804	HEMP_T1	2	2	0	5.35	5.9	0.55	-0.63	-0.69	0	0	0	0	0	0
8/2/2024 12:59	65601	QVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/2/2024 12:59	65604	QVIL_T2	0	1	1	0	0	0	0.31	0.39	0	0	0	0	0	0
8/2/2024 12:59	65603	QVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/2/2024 12:59	50701	SMEC_T1	0	1	1	0	0.5	0.5	0.55	0.55	0	0	0	0	0	0
8/2/2024 13:02	59202	THOM_T1	0	15	15	0	0.4	0.4	0	0	0	0	0	0	0	0
8/2/2024 13:03	59202	THOM_T1	0	15	15	0	0.4	0.4	0	0	0	0	0	0	0	0
8/2/2024 13:04	51306	WIND_T2	1	2	1	0.1	0.3	0.2	-0.54	-0.53	0	0	0	0	0	0
8/2/2024 13:04	66701	STRA_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
8/2/2024 13:04	66702	STRA_T1	0	0	0	0	0	0	-2.61	-2.53	6	6	0	5400	5400	0
8/2/2024 13:04	66703	STRA_T1	21	29	8	0.4	0.4	0	0.33	0.5	0	0	0	0	0	0
8/2/2024 13:05	66702	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 13:05	66701	STRA_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
8/2/2024 13:05	59202	THOM_T1	0	15	15	0	0.4	0.4	0	0	0	0	0	0	0	0
8/2/2024 13:05	66703	STRA_T1	21	29	8	0.4	0.4	0	0	0	0	0	0	0	0	0
8/2/2024 13:07	59202	THOM_T1	0	15	15	0	0.4	0.4	0	0	0	0	0	0	0	0
8/2/2024 13:10	64101	REFR_T1	11	11	0	2.95	2.02	-0.93	-0.3	-0.31	0	0	0	0	0	0
8/2/2024 13:10	53902	HALI_T2	1	2	1	4.9	2.75	-2.15	0	0	0	0	0	0	0	0
8/2/2024 13:10	57505	LAWN_T3	2	0	-2	0.15	0	-0.15	0.37	0.39	0	0	0	0	0	0
8/2/2024 13:10	53903	HALI_T2	2	2	0	0.4	0.95	0.55	0.12	0.09	0	0	0	0	0	0
8/2/2024 13:11	50502	MECH_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
8/2/2024 13:11	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 13:13	63203	MGTN_T1	1	1	0	0.4	0.4	0	0.34	0.37	1	1	0	600	600	0
8/2/2024 13:14	57302	MOAL_T2	0	0	0	0	0	0	-0.83	-0.85	1	1	0	1200	1200	0
8/2/2024 13:14	57303	MOAL_T2	1	1	0	7.2	7.5	0.3	0	0	0	0	0	0	0	0
8/2/2024 13:14	64802	MONE_T2	3	4	1	0.57	0.5	-0.07	-0.04	-0.03	0	0	0	0	0	0
8/2/2024 13:14	64801	MONE_T2	32	29	-3	0.58	0.28	-0.3	0	0	0	0	0	0	0	0
8/2/2024 13:15	64801	MONE_T2	28	16	-12	0.44	0.35	-0.09	0	0	0	0	0	0	0	0
8/2/2024 13:15	64802	MONE_T2	3	4	1	0.63	0.25	-0.38	-0.04	-0.03	0	0	0	0	0	0
8/2/2024 13:15	65901	SAKR_T2	20	38	18	0.56	0.6	0.04	0.3	0.28	2	2	0	1500	1500	0
8/2/2024 13:15	65903	SAKR_T2	1	1	0	2	2.8	0.8	0	0	0	0	0	0	0	0
8/2/2024 13:16	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/2/2024 13:16	61102	BERK_T5	0	0	0	0	0	0	0.28	0.28	2	2	0	1200	1200	0
8/2/2024 13:16	56501	ROCK_T2	44	13	-31	0.22	0.41	0.19	-1.59	-1.56	0	0	0	0	0	0
8/2/2024 13:16	42802	SELI_T1	0	0	0	0	0	0	-2.78	-2.65	2	2	0	1800	1800	0
8/2/2024 13:16	56504	ROCK_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/2/2024 13:16	61101	BERK_T5	14	16	2	1.76	1.33	-0.43	0	0	0	0	0	0	0	0
8/2/2024 13:17	56501	ROCK_T2	44	13	-31	0.22	0.41	0.19	-1.59	-1.56	0	0	0	0	0	0
8/2/2024 13:17	56504	ROCK_T2	2	0	-2	0.4	0	-0.4	0.46	0.49	0	0	0	0	0	0
8/2/2024 13:17	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/2/2024 13:17	65902	SAKR_T2	0	0	0	0	0	0	-0.68	-0.67	2	2	0	1200	1200	0
8/2/2024 13:17	65901	SAKR_T2	20	38	18	0.56	0.6	0.04	0	0	0	0	0	0	0	0
8/2/2024 13:17	65903	SAKR_T2	1	1	0	2	2.8	0.8	0	0	0	0	0	0	0	0
8/2/2024 13:17	54601	SUMM_T2	0	0	0	0	0	0	-1.09	-1.04	2	2	0	2100	2100	0
8/2/2024 13:17	59202	THOM_T1	6	13	7	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
8/2/2024 13:18	59202	THOM_T1	6	13	7	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
8/2/2024 13:19	59202	THOM_T1	6	13	7	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
8/2/2024 13:20	59202	THOM_T1	6	13	7	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
8/2/2024 13:21	56504	ROCK_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/2/2024 13:21	56501	ROCK_T2	44	13	-31	0.22	0.41	0.19	-1.59	-1.56	0	0	0	0	0	0
8/2/2024 13:21	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/2/2024 13:22	67601	WARW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 13:22	67602	WARW_T2	150	153	3	0.7	0.62	-0.08	1.4	1.41	2	2	0	1500	1500	0
8/2/2024 13:23	53903	HALI_T2	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/2/2024 13:23	53902	HALI_T2	1	2	1	5.2	2.55	-2.65	0	0	0	0	0	0	0	0
8/2/2024 13:23	67601	WARW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 13:23	53901	HALI_T2	0	0	0	0	0	0	-0.83	-0.8	0	0	0	0	0	0
8/2/2024 13:23	67602	WARW_T2	150	153	3	0.7	0.62	-0.08	1.4	1.41	2	2	0	1500	1500	0
8/2/2024 13:24	67601	WARW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 13:24	67602	WARW_T2	150	153	3	0.7	0.62	-0.08	1.4	1.41	2	2	0	1500	1500	0
8/2/2024 13:26	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 13:26	67601	WARW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 13:26	67602	WARW_T2	150	153	3	0.7	0.62	-0.08	1.4	1.41	2	2	0	1500	1500	0
8/2/2024 13:26	52403	GRPA_T2	4	20	16	0.58	0.58	0	0.48	0.47	0	0	0	0	0	0
8/2/2024 13:27	67601	WARW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 13:27	67602	WARW_T2	150	153	3	0.7	0.62	-0.08	1.4	1.41	2	2	0	1500	1500	0
8/2/2024 13:28	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 13:30	59001	MIFF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/2/2024 13:30	59002	MIFF_T1	5	4	-1	0.28	0.13	-0.15	0	0	0	0	0	0	0	0
8/2/2024 13:30	59003	MIFF_T1	2	0	-2	0.15	0	-0.15	-1.84	-1.46	0	0	0	0	0	0
8/2/2024 13:32	52504	PROG_T1	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
8/2/2024 13:32	52501	PROG_T1	3	1	-2	0.43	0.1	-0.33	-0.43	-0.39	1	1	0	300	300	0
8/2/2024 13:33	56501	ROCK_T2	13	4	-9	0.41	0.45	0.04	-1.56	-1.54	0	0	0	0	0	0
8/2/2024 13:33	56503	ROCK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/2/2024 13:33	59202	THOM_T1	13	3	-10	0.37	0.27	-0.1	0	0	0	0	0	0	0	0
8/2/2024 13:35	59202	THOM_T1	13	3	-10	0.37	0.27	-0.1	0	0	0	0	0	0	0	0
8/2/2024 13:36	27205	YATE_T1	3	3	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/2/2024 13:36	27201	YATE_T1	9	7	-2	0.63	0.52	-0.11	-0.4	-0.41	0	0	0	0	0	0
8/2/2024 13:36	59202	THOM_T1	13	3	-10	0.37	0.27	-0.1	0	0	0	0	0	0	0	0
8/2/2024 13:37	51306	WIND_T2	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/2/2024 13:37	51302	WIND_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
8/2/2024 13:41	52401	GRPA_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 13:41	52404	GRPA_T2	0	5	5	0	0	0	0.37	0.39	0	0	0	0	0	0
8/2/2024 13:41	52403	GRPA_T2	12	44	32	0.71	0.57	-0.14	0	0	0	0	0	0	0	0
8/2/2024 13:41	59302	MCAL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/2/2024 13:41	53801	MBRG_T2	9	0	-9	0.18	0	-0.18	0	0	0	0	0	0	0	0
8/2/2024 13:41	52402	GRPA_T2	1	4	3	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/2/2024 13:41	53802	MBRG_T2	0	0	0	0	0	0	1.48	1.18	0	0	0	0	0	0
8/2/2024 13:41	59301	MCAL_T1	4	4	0	0.73	0.8	0.07	-1.38	-1.54	1	1	0	600	600	0
8/2/2024 13:42	52403	GRPA_T2	12	44	32	0.71	0.57	-0.14	0.47	0.54	0	0	0	0	0	0
8/2/2024 13:42	15604	NSTR_T1	1	1	0	0.4	1	0.6	0.58	0.56	0	0	0	0	0	0
8/2/2024 13:42	52402	GRPA_T2	1	4	3	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/2/2024 13:42	52401	GRPA_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 13:42	52404	GRPA_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 13:44	52404	GRPA_T2	0	5	5	0	0	0	0.37	0.39	0	0	0	0	0	0
8/2/2024 13:44	52401	GRPA_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 13:44	41002	LAUR_T2	6	28	22	0.5	0.26	-0.24	0.13	0.17	0	0	0	0	0	0
8/2/2024 13:44	52402	GRPA_T2	1	4	3	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/2/2024 13:44	41001	LAUR_T2	3	4	1	1.2	1.07	-0.13	0	0	0	0	0	0	0	0
8/2/2024 13:44	52403	GRPA_T2	12	44	32	0.71	0.57	-0.14	0	0	0	0	0	0	0	0
8/2/2024 13:45	57702	PAXT_T1	0	0	0	0	0	0	-0.03	0.01	0	0	0	0	0	0
8/2/2024 13:45	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/2/2024 13:46	15604	NSTR_T1	1	1	0	1.3	0.2	-1.1	0.58	0.56	0	0	0	0	0	0
8/2/2024 13:46	59101	WALK_T2	0	0	0	0	0	0	0.76	0.75	1	1	0	600	600	0
8/2/2024 13:46	59202	THOM_T1	2	3	1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
8/2/2024 13:46	57702	PAXT_T1	0	0	0	0	0	0	-0.03	0.01	0	0	0	0	0	0
8/2/2024 13:47	65904	SAKR_T2	0	0	0	0	0	0	-1.03	-1.05	3	3	0	1500	1500	0
8/2/2024 13:47	65903	SAKR_T2	1	1	0	2.8	0	-2.8	0	0	0	0	0	0	0	0
8/2/2024 13:47	65902	SAKR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/2/2024 13:47	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/2/2024 13:47	65901	SAKR_T2	30	5	-25	0.55	5.3	4.75	0	0	0	0	0	0	0	0
8/2/2024 13:47	27603	PIRI_T2	1	1	0	2.6	1	-1.6	0	0	0	0	0	0	0	0
8/2/2024 13:47	59101	WALK_T2	0	0	0	0	0	0	1.52	1.51	2	2	0	1200	1200	0
8/2/2024 13:47	27605	PIRI_T2	354	298	-56	0.89	0.7	-0.19	0.77	0.82	1	1	0	900	900	0
8/2/2024 13:48	65903	SAKR_T2	1	1	0	2.8	0	-2.8	0	0	0	0	0	0	0	0
8/2/2024 13:48	65902	SAKR_T2	0	1	1	0	0.1	0.1	-0.66	-0.72	2	2	0	1200	1200	0
8/2/2024 13:48	65901	SAKR_T2	30	5	-25	0.55	5.3	4.75	0	0	0	0	0	0	0	0
8/2/2024 13:48	66703	STRA_T1	22	20	-2	0.36	0.37	0.01	0.52	0.54	0	0	0	0	0	0
8/2/2024 13:49	65901	SAKR_T2	30	5	-25	0.55	5.3	4.75	0	0	0	0	0	0	0	0
8/2/2024 13:49	65904	SAKR_T2	0	0	0	0	0	0	-1.03	-1.05	3	3	0	1500	1500	0
8/2/2024 13:49	65903	SAKR_T2	1	1	0	2.8	0	-2.8	0	0	0	0	0	0	0	0
8/2/2024 13:49	65902	SAKR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/2/2024 13:57	65401	MARI_T1	12	9	-3	1.04	0.54	-0.5	0	0	0	0	0	0	0	0
8/2/2024 13:57	52004	LING_T2	3	2	-1	3.5	4.75	1.25	0.53	0.51	0	0	0	0	0	0
8/2/2024 13:57	52002	LING_T2	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/2/2024 13:57	65402	MARI_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/2/2024 14:00	67103	SPRI_T1	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
8/2/2024 14:01	65205	PRIN_T1	1	1	0	1.5	1.8	0.3	0	0	0	0	0	0	0	0
8/2/2024 14:01	44902	SCOT_T2	5	159	154	0.14	0.29	0.15	0	0	0	0	0	0	0	0
8/2/2024 14:01	44901	SCOT_T2	0	1	1	0	0.1	0.1	0.58	0.48	0	0	0	0	0	0
8/2/2024 14:02	55102	WERT_T2	0	0	0	0	0	0	-0.74	-0.72	1	1	0	600	600	0
8/2/2024 14:02	60301	TWVA_T2	6	6	0	0.77	0.35	-0.42	-2.08	-2.08	2	2	0	1800	1800	0
8/2/2024 14:02	66703	STRA_T1	18	11	-7	0.38	0.54	0.16	0.54	0.57	0	0	0	0	0	0
8/2/2024 14:02	67303	WYOM_T2	0	0	0	0	0	0	0.38	0.3	0	0	0	0	0	0
8/2/2024 14:03	66703	STRA_T1	18	11	-7	0.38	0.54	0.16	0	0	0	0	0	0	0	0
8/2/2024 14:03	67303	WYOM_T2	0	0	0	0	0	0	0.38	0.3	0	0	0	0	0	0
8/2/2024 14:03	66701	STRA_T1	0	0	0	0	0	0	-0.08	-0.02	1	1	0	600	600	0
8/2/2024 14:03	42802	SELI_T1	0	0	0	0	0	0	-1.41	-1.27	1	1	0	900	900	0
8/2/2024 14:04	55101	WERT_T1	0	5	5	0	0.2	0.2	-1.89	-1.73	4	4	0	3300	3300	0
8/2/2024 14:06	42802	SELI_T1	0	0	0	0	0	0	-1.41	-1.27	1	1	0	900	900	0
8/2/2024 14:10	51804	EBEN_T2	0	0	0	0	0	0	0.08	0.14	2	2	0	1800	1800	0
8/2/2024 14:10	51802	EBEN_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 14:13	47401	PENS_T1	2	3	1	0.65	0.55	-0.1	0.68	0.65	0	0	0	0	0	0
8/2/2024 14:13	43202	MVIL_T2	0	2	2	0	0.25	0.25	-0.35	-0.32	0	0	0	0	0	0
8/2/2024 14:13	47403	PENS_T1	1	3	2	0.8	0.77	-0.03	0	0	0	0	0	0	0	0
8/2/2024 14:13	47402	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/2/2024 14:14	65804	RTWN_T1	0	0	0	0	0	0	0.35	1.56	1	1	0	600	600	0
8/2/2024 14:14	47402	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/2/2024 14:14	47401	PENS_T1	2	3	1	0.65	0.55	-0.1	0.68	0.65	0	0	0	0	0	0
8/2/2024 14:14	47403	PENS_T1	1	3	2	0.8	0.77	-0.03	0	0	0	0	0	0	0	0
8/2/2024 14:15	56504	ROCK_T2	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
8/2/2024 14:15	56501	ROCK_T2	4	5	1	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
8/2/2024 14:16	43202	MVIL_T2	2	2	0	0.1	0.3	0.2	-0.35	-0.32	0	0	0	0	0	0
8/2/2024 14:16	65804	RTWN_T1	0	0	0	0	0	0	0.35	1.56	1	1	0	600	600	0
8/2/2024 14:17	48302	ORWI_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
8/2/2024 14:18	56504	ROCK_T2	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
8/2/2024 14:18	47402	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/2/2024 14:18	56501	ROCK_T2	4	5	1	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
8/2/2024 14:18	47401	PENS_T1	2	4	2	0.4	0.63	0.23	0.68	0.65	0	0	0	0	0	0
8/2/2024 14:18	47403	PENS_T1	3	0	-3	0.77	0	-0.77	0	0	0	0	0	0	0	0
8/2/2024 14:19	49804	UNIV_T1	0	0	0	0	0	0	1.37	1.44	0	0	0	0	0	0
8/2/2024 14:19	54506	ENOL_T2	0	0	0	0	0	0	0.77	0.73	1	1	0	600	600	0
8/2/2024 14:19	42802	SELI_T1	0	0	0	0	0	0	-1.27	-1.39	1	1	0	900	900	0
8/2/2024 14:19	49803	UNIV_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
8/2/2024 14:19	56504	ROCK_T2	0	0	0	0	0	0	-1.09	-1.05	0	0	0	0	0	0
8/2/2024 14:19	56501	ROCK_T2	4	5	1	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
8/2/2024 14:20	56501	ROCK_T2	4	5	1	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
8/2/2024 14:20	42802	SELI_T1	0	0	0	0	0	0	-1.27	-1.39	1	1	0	900	900	0
8/2/2024 14:20	56504	ROCK_T2	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
8/2/2024 14:21	42802	SELI_T1	0	0	0	0	0	0	-2.53	-2.78	2	2	0	1800	1800	0
8/2/2024 14:23	56501	ROCK_T2	4	5	1	0.45	0.3	-0.15	-1.51	-1.45	0	0	0	0	0	0
8/2/2024 14:28	52404	GRPA_T2	5	0	-5	0.62	0	-0.62	0	0	0	0	0	0	0	0
8/2/2024 14:28	52401	GRPA_T2	7	22	15	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
8/2/2024 14:28	52403	GRPA_T2	54	48	-6	0.73	0.66	-0.07	0	0	0	0	0	0	0	0
8/2/2024 14:28	52402	GRPA_T2	4	13	9	0.58	0.46	-0.12	-0.37	-0.36	0	0	0	0	0	0
8/2/2024 14:28	66301	MCGO_T2	0	0	0	0	0	0	-1.1	-1.06	0	0	0	0	0	0
8/2/2024 14:29	52402	GRPA_T2	4	13	9	0.58	0.46	-0.12	-0.37	-0.36	0	0	0	0	0	0
8/2/2024 14:29	52401	GRPA_T2	7	22	15	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
8/2/2024 14:29	52403	GRPA_T2	54	48	-6	0.73	0.66	-0.07	0	0	0	0	0	0	0	0
8/2/2024 14:29	55001	NEWP_T1	2	3	1	0.45	0	-0.45	-0.2	-0.17	1	1	0	600	600	0
8/2/2024 14:29	52404	GRPA_T2	5	0	-5	0.62	0	-0.62	0	0	0	0	0	0	0	0
8/2/2024 14:29	55002	NEWP_T1	2	1	-1	0.95	0.2	-0.75	0	0	0	0	0	0	0	0
8/2/2024 14:30	65603	QVIL_T2	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
8/2/2024 14:30	65604	QVIL_T2	1	2	1	1.5	1.5	0	0	0	0	0	0	0	0	0
8/2/2024 14:30	65601	QVIL_T2	3	32	29	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/2/2024 14:31	66703	STRA_T1	5	34	29	0.58	0	-0.58	0	0	0	0	0	0	0	0
8/2/2024 14:31	66701	STRA_T1	0	0	0	0	0	0	-0.09	-0.13	1	1	0	600	600	0
8/2/2024 14:33	64101	REFR_T1	0	6	6	0	0.65	0.65	-0.3	-0.3	0	0	0	0	0	0
8/2/2024 14:40	27603	PIRI_T2	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
8/2/2024 14:40	27605	PIRI_T2	138	23	-115	0.64	0.25	-0.39	0.71	0.6	1	1	0	900	900	0
8/2/2024 14:44	57704	PAXT_T2	0	0	0	0	0	0	-1.42	-1.35	1	1	0	900	900	0
8/2/2024 14:45	43101	SMIL_T2	1	2	1	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
8/2/2024 14:45	43103	SMIL_T2	0	1	1	0	0	0	-0.43	-0.43	0	0	0	0	0	0
8/2/2024 14:45	57704	PAXT_T2	0	0	0	0	0	0	-1.42	-1.35	1	1	0	900	900	0
8/2/2024 14:47	59202	THOM_T1	1	2	1	1.2	0	-1.2	0	0	0	0	0	0	0	0
8/2/2024 14:48	59202	THOM_T1	1	2	1	1.2	0	-1.2	0	0	0	0	0	0	0	0
8/2/2024 14:49	64101	REFR_T1	6	11	5	0.75	0.65	-0.1	-0.3	-0.33	0	0	0	0	0	0
8/2/2024 14:49	59202	THOM_T1	1	2	1	1.2	0	-1.2	0	0	0	0	0	0	0	0
8/2/2024 14:49	40302	TAMA_T3	0	0	0	0	0	0	-1.05	-1.04	0	0	0	0	0	0
8/2/2024 14:49	43101	SMIL_T2	1	2	1	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
8/2/2024 14:49	43103	SMIL_T2	0	1	1	0	0	0	-0.22	-0.22	0	0	0	0	0	0
8/2/2024 14:49	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 14:50	41601	CLEV_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/2/2024 14:51	59101	WALK_T2	0	0	0	0	0	0	0.32	0.37	0	0	0	0	0	0
8/2/2024 14:52	59202	THOM_T1	1	2	1	1.2	0	-1.2	0	0	0	0	0	0	0	0
8/2/2024 14:53	67604	WARW_T1	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
8/2/2024 14:53	67605	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/2/2024 14:57	45801	HEGI_T1	0	0	0	0	0	0	-0.27	0.3	1	1	0	900	900	0
8/2/2024 14:58	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.57	-0.55	0	0	0	0	0	0
8/2/2024 15:00	43202	MVIL_T2	5	9	4	0.16	0.27	0.11	-0.33	-0.32	0	0	0	0	0	0
8/2/2024 15:02	43101	SMIL_T2	2	5	3	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/2/2024 15:02	59202	THOM_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/2/2024 15:02	43103	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 15:02	43202	MVIL_T2	5	9	4	0.16	0.27	0.11	-0.33	-0.32	0	0	0	0	0	0
8/2/2024 15:02	43108	SMIL_T2	0	0	0	0	0	0	-0.78	-0.82	1	1	0	1200	1200	0
8/2/2024 15:03	67001	STHI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/2/2024 15:03	43108	SMIL_T2	0	0	0	0	0	0	-0.78	-0.82	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/2/2024 15:03	43103	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 15:03	67002	STHI_T2	0	0	0	0	0	0	1.05	1.06	1	1	0	600	600	0
8/2/2024 15:03	43101	SMIL_T2	2	5	3	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/2/2024 15:04	67002	STHI_T2	0	0	0	0	0	0	1.05	1.06	1	1	0	600	600	0
8/2/2024 15:04	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/2/2024 15:04	59202	THOM_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/2/2024 15:04	67001	STHI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/2/2024 15:07	67503	WEWI_T2	1	1	0	0.7	0	-0.7	0.46	0.45	0	0	0	0	0	0
8/2/2024 15:07	67502	WEWI_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/2/2024 15:11	46801	HEPB_T2	2	2	0	1.05	1.1	0.05	0	0	0	0	0	0	0	0
8/2/2024 15:11	46803	HEPB_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
8/2/2024 15:12	54701	NEBL_T1	1	14	13	0.1	0.57	0.47	0	0	1	1	0	600	600	0
8/2/2024 15:12	52004	LING_T2	2	3	1	4.5	3	-1.5	0.5	0.45	0	0	0	0	0	0
8/2/2024 15:12	52002	LING_T2	0	8	8	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 15:13	63602	LETO_T1	0	1	1	0	0	0	0.22	0.25	1	1	0	600	600	0
8/2/2024 15:13	51401	LYKE_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
8/2/2024 15:13	51402	LYKE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/2/2024 15:15	65003	NEFF_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/2/2024 15:15	57306	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 15:15	65004	NEFF_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/2/2024 15:15	55001	NEWP_T1	16	0	-16	0.51	0	-0.51	-0.14	-0.71	1	1	0	600	600	0
8/2/2024 15:15	57304	MOAL_T2	6	13	7	0.37	0.3	-0.07	0.23	0.27	0	0	0	0	0	0
8/2/2024 15:15	52001	LING_T1	0	0	0	0	0	0	1.18	1.12	0	0	0	0	0	0
8/2/2024 15:15	65602	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 15:15	65005	NEFF_T2	0	0	0	0	0	0	-0.4	-0.49	0	0	0	0	0	0
8/2/2024 15:15	57303	MOAL_T2	1	1	0	8.3	8.3	0	0	0	0	0	0	0	0	0
8/2/2024 15:15	65601	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 15:15	55002	NEWP_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/2/2024 15:15	65001	NEFF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/2/2024 15:15	65604	QVIL_T2	1	0	-1	1.1	0	-1.1	0.44	0.04	0	0	0	0	0	0
8/2/2024 15:16	65004	NEFF_T2	1	1	0	0.2	0.2	0	-0.22	-0.24	1	1	0	600	600	0
8/2/2024 15:16	65003	NEFF_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/2/2024 15:16	42204	SHEN_T2	0	0	0	0	0	0	-0.49	-0.52	1	1	0	1200	1200	0
8/2/2024 15:16	65001	NEFF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/2/2024 15:21	56504	ROCK_T2	0	0	0	0	0	0	-0.3	-0.21	0	0	0	0	0	0
8/2/2024 15:21	56501	ROCK_T2	2	3	1	0.6	0.6	0	0	0	0	0	0	0	0	0
8/2/2024 15:21	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 15:21	59101	WALK_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
8/2/2024 15:22	59101	WALK_T2	0	0	0	0	0	0	0.38	0.48	0	0	0	0	0	0
8/2/2024 15:23	43101	SMIL_T2	1	4	3	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/2/2024 15:23	43106	SMIL_T2	0	0	0	0	0	0	-1.09	-1.13	2	2	0	2400	2400	0
8/2/2024 15:23	46301	ROHR_T1	131	144	13	0.31	0.35	0.04	0.5	0.5	0	0	0	0	0	0
8/2/2024 15:23	43103	SMIL_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/2/2024 15:23	46302	ROHR_T1	6	7	1	1.32	1.27	-0.05	0	0	0	0	0	0	0	0
8/2/2024 15:26	63305	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/2/2024 15:26	63306	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/2/2024 15:26	63304	GREE_T1	0	0	0	0	0	0	-1.86	-1.68	0	0	0	0	0	0
8/2/2024 15:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 15:28	63306	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/2/2024 15:28	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 15:28	63305	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/2/2024 15:28	15601	NSTR_T2	3	3	0	0.6	0.77	0.17	0	0	0	0	0	0	0	0
8/2/2024 15:28	44702	MUNC_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/2/2024 15:28	15603	NSTR_T2	0	0	0	0	0	0	-0.95	-0.92	0	0	0	0	0	0
8/2/2024 15:28	63304	GREE_T1	0	0	0	0	0	0	-1.86	-1.68	0	0	0	0	0	0
8/2/2024 15:30	47502	NECO_T1	1	1	0	0.6	0.6	0	1.09	1.08	0	0	0	0	0	0
8/2/2024 15:30	44703	MUNC_T2	0	0	0	0	0	0	1.21	1.23	0	0	0	0	0	0
8/2/2024 15:31	23001	SAJO_T1	0	0	0	0	0	0	-0.13	-0.08	0	0	0	0	0	0
8/2/2024 15:32	56501	ROCK_T2	2	4	2	0.85	0.47	-0.38	0	0	0	0	0	0	0	0
8/2/2024 15:32	56504	ROCK_T2	0	0	0	0	0	0	-0.42	-0.47	0	0	0	0	0	0
8/2/2024 15:32	56503	ROCK_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/2/2024 15:32	47502	NECO_T1	1	1	0	0.6	0.6	0	1.09	1.08	0	0	0	0	0	0
8/2/2024 15:33	43202	MVIL_T2	8	26	18	0.28	0.24	-0.04	-0.32	-0.28	0	0	0	0	0	0
8/2/2024 15:33	64101	REFR_T1	11	13	2	2.11	3.42	1.31	-0.35	-0.29	0	0	0	0	0	0
8/2/2024 15:34	59202	THOM_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
8/2/2024 15:35	59202	THOM_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
8/2/2024 15:36	41602	CLEV_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 15:36	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/2/2024 15:38	46302	ROHR_T1	7	7	0	1.27	1.1	-0.17	0	0	0	0	0	0	0	0
8/2/2024 15:38	46301	ROHR_T1	132	143	11	0.35	0.33	-0.02	0.5	0.51	0	0	0	0	0	0
8/2/2024 15:41	22901	HARW_T1	0	9	9	0	0.1	0.1	-0.15	-0.08	1	1	0	1200	1200	0
8/2/2024 15:41	22903	HARW_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
8/2/2024 15:42	22903	HARW_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
8/2/2024 15:42	51401	LYKE_T1	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
8/2/2024 15:42	51402	LYKE_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/2/2024 15:42	22901	HARW_T1	0	9	9	0	0.1	0.1	-0.15	-0.08	1	1	0	1200	1200	0
8/2/2024 15:43	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 15:44	58402	MORO_T1	2	2	0	1.65	0.85	-0.8	0	0	0	0	0	0	0	0
8/2/2024 15:44	58401	MORO_T1	2	0	-2	0.5	0	-0.5	-0.93	-0.88	2	2	0	1500	1500	0
8/2/2024 15:44	13503	MCMI_T2	0	0	0	0	0	0	-0.55	0.25	0	0	0	0	0	0
8/2/2024 15:45	44801	EDAN_T2	2	3	1	1.3	1.45	0.15	0	0	0	0	0	0	0	0
8/2/2024 15:45	44802	EDAN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
8/2/2024 15:45	13503	MCMI_T2	0	0	0	0	0	0	-0.55	0.25	0	0	0	0	0	0
8/2/2024 15:47	44801	EDAN_T2	2	3	1	1.3	1.45	0.15	0	0	0	0	0	0	0	0
8/2/2024 15:47	59202	THOM_T1	1	2	1	0.9	1	0.1	0	0	0	0	0	0	0	0
8/2/2024 15:47	44802	EDAN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
8/2/2024 15:48	44802	EDAN_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
8/2/2024 15:48	44801	EDAN_T2	2	3	1	1.3	1.45	0.15	0	0	0	0	0	0	0	0
8/2/2024 15:49	64101	REFR_T1	12	13	1	3.16	3.05	-0.11	-0.29	-0.26	0	0	0	0	0	0
8/2/2024 15:50	59202	THOM_T1	1	2	1	0.9	1	0.1	0	0	0	0	0	0	0	0
8/2/2024 15:50	45402	WBLO_T2	44	24	-20	0.21	0.21	0	-0.97	-0.89	1	1	0	900	900	0
8/2/2024 15:57	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 15:57	52004	LING_T2	2	2	0	4.7	3.85	-0.85	0	0	0	0	0	0	0	0
8/2/2024 15:57	52002	LING_T2	0	26	26	0	0	0	0.35	0.4	0	0	0	0	0	0
8/2/2024 15:57	45802	HEGI_T2	0	12	12	0	0.38	0.38	0.96	0.84	1	1	0	300	300	0
8/2/2024 15:58	57702	PAXT_T1	0	0	0	0	0	0	-0.78	-0.76	0	0	0	0	0	0
8/2/2024 15:58	67602	WARW_T2	4	9	5	0.48	0.68	0.2	1.38	1.35	2	2	0	1500	1500	0
8/2/2024 15:58	45802	HEGI_T2	0	12	12	0	0.38	0.38	0.96	0.84	1	1	0	300	300	0
8/2/2024 15:59	52002	LING_T2	0	26	26	0	0	0	0.35	0.4	0	0	0	0	0	0
8/2/2024 15:59	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 15:59	52004	LING_T2	2	2	0	4.7	3.85	-0.85	0	0	0	0	0	0	0	0
8/2/2024 16:00	58401	MORO_T1	0	1	1	0	0	0	-0.88	-0.87	2	2	0	1500	1500	0
8/2/2024 16:00	58402	MORO_T1	2	4	2	1.8	1.3	-0.5	0	0	0	0	0	0	0	0
8/2/2024 16:02	27603	PIRI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/2/2024 16:02	27605	PIRI_T2	1	1	0	0.1	0	-0.1	0.57	0.3	1	1	0	900	900	0
8/2/2024 16:06	59202	THOM_T1	1	2	1	1.2	0.2	-1	0	0	0	0	0	0	0	0
8/2/2024 16:07	59202	THOM_T1	1	2	1	1.2	0.2	-1	0	0	0	0	0	0	0	0
8/2/2024 16:08	23202	HIRU_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
8/2/2024 16:09	46301	ROHR_T1	94	68	-26	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
8/2/2024 16:09	46302	ROHR_T1	5	4	-1	1.34	1.63	0.29	0.45	0.46	0	0	0	0	0	0
8/2/2024 16:12	51004	NHAR_T1	1	1	0	7.4	7.4	0	-0.3	-0.3	0	0	0	0	0	0
8/2/2024 16:12	63401	HONY_T1	0	0	0	0	0	0	0.09	-0.06	1	1	0	600	600	0
8/2/2024 16:12	51003	NHAR_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 16:13	59002	MIFF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/2/2024 16:13	59003	MIFF_T1	1	2	1	0.1	0.2	0.1	-0.58	-0.29	0	0	0	0	0	0
8/2/2024 16:17	51004	NHAR_T1	1	1	0	7.6	7.1	-0.5	-0.3	-0.3	0	0	0	0	0	0
8/2/2024 16:17	51003	NHAR_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 16:18	42201	SHEN_T2	0	0	0	0	0	0	0.69	0.71	0	0	0	0	0	0
8/2/2024 16:19	59202	THOM_T1	2	1	-1	3.5	0	-3.5	0	0	0	0	0	0	0	0
8/2/2024 16:19	59101	WALK_T2	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
8/2/2024 16:21	46301	ROHR_T1	66	51	-15	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
8/2/2024 16:21	46302	ROHR_T1	4	5	1	1.55	1.5	-0.05	0.45	0.46	0	0	0	0	0	0
8/2/2024 16:21	59202	THOM_T1	2	1	-1	3.5	0	-3.5	0	0	0	0	0	0	0	0
8/2/2024 16:22	59202	THOM_T1	2	1	-1	3.5	0	-3.5	0	0	0	0	0	0	0	0
8/2/2024 16:23	21202	ECAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 16:23	53902	HALI_T2	1	1	0	3.8	3.2	-0.6	-0.42	-0.41	0	0	0	0	0	0
8/2/2024 16:23	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 16:23	21206	ECAR_T2	1	2	1	7.5	7.5	0	0.49	0.51	0	0	0	0	0	0
8/2/2024 16:23	53903	HALI_T2	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/2/2024 16:24	53903	HALI_T2	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/2/2024 16:24	53902	HALI_T2	1	1	0	3.8	3.2	-0.6	-0.42	-0.41	0	0	0	0	0	0
8/2/2024 16:25	53903	HALI_T2	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/2/2024 16:25	53902	HALI_T2	1	1	0	3.8	3.2	-0.6	-0.42	-0.41	0	0	0	0	0	0
8/2/2024 16:26	53902	HALI_T2	1	1	0	3.8	3.2	-0.6	-0.42	-0.41	0	0	0	0	0	0
8/2/2024 16:26	53903	HALI_T2	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/2/2024 16:27	53902	HALI_T2	1	1	0	3.8	3.2	-0.6	-0.42	-0.41	0	0	0	0	0	0
8/2/2024 16:27	53903	HALI_T2	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/2/2024 16:30	44801	EDAN_T2	2	4	2	1.7	3.2	1.5	-1.1	-1.14	0	0	0	0	0	0
8/2/2024 16:32	13503	MCMI_T2	0	0	0	0	0	0	-0.59	-0.15	0	0	0	0	0	0
8/2/2024 16:33	59202	THOM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/2/2024 16:34	13503	MCMI_T2	0	0	0	0	0	0	-0.59	-0.15	0	0	0	0	0	0
8/2/2024 16:35	64204	KINZ_T1	2	1	-1	0.45	1.1	0.65	0	0	0	0	0	0	0	0
8/2/2024 16:35	64203	KINZ_T1	0	0	0	0	0	0	-0.9	-0.94	3	3	0	2100	2100	0
8/2/2024 16:35	64201	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/2/2024 16:37	59202	THOM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/2/2024 16:37	51304	WIND_T2	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
8/2/2024 16:45	65603	QVIL_T2	0	0	0	0	0	0	-0.21	-0.3	0	0	0	0	0	0
8/2/2024 16:56	41002	LAUR_T2	6	7	1	0.55	0.72	0.17	0.25	0.25	0	0	0	0	0	0
8/2/2024 16:56	41001	LAUR_T2	22	24	2	0.8	0.81	0.01	0	0	0	0	0	0	0	0
8/2/2024 17:01	47401	PENS_T1	5	4	-1	0.54	0.7	0.16	0.6	0.61	0	0	0	0	0	0
8/2/2024 17:01	47403	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/2/2024 17:12	20601	GRWO_T2	21	52	31	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
8/2/2024 17:12	20603	GRWO_T2	0	0	0	0	0	0	-0.23	-0.23	1	1	0	900	900	0
8/2/2024 17:13	46101	MACI_T2	0	0	0	0	0	0	-0.4	-0.36	1	1	0	1200	1200	0
8/2/2024 17:15	51003	NHAR_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 17:15	51004	NHAR_T1	1	1	0	6.9	6.9	0	-0.28	-0.28	0	0	0	0	0	0
8/2/2024 17:17	56504	ROCK_T2	3	4	1	0.5	0.5	0	0	0	0	0	0	0	0	0
8/2/2024 17:17	56501	ROCK_T2	2	10	8	0.95	0.4	-0.55	-1.23	-1.19	0	0	0	0	0	0
8/2/2024 17:17	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/2/2024 17:18	56501	ROCK_T2	2	10	8	0.95	0.4	-0.55	-3.69	-3.58	0	0	0	0	0	0
8/2/2024 17:18	56504	ROCK_T2	3	4	1	0.5	0.5	0	0	0	0	0	0	0	0	0
8/2/2024 17:18	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/2/2024 17:19	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/2/2024 17:19	56504	ROCK_T2	3	4	1	0.5	0.5	0	0	0	0	0	0	0	0	0
8/2/2024 17:19	56501	ROCK_T2	2	10	8	0.95	0.4	-0.55	-1.23	-1.19	0	0	0	0	0	0
8/2/2024 17:24	53902	HALI_T2	1	1	0	4	4.2	0.2	-0.8	-0.76	0	0	0	0	0	0
8/2/2024 17:24	46801	HEPB_T2	2	3	1	1	0.93	-0.07	0.13	0.17	0	0	0	0	0	0
8/2/2024 17:24	53903	HALI_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
8/2/2024 17:26	51201	MTON_T1	0	0	0	0	0	0	1.25	1.24	0	0	0	0	0	0
8/2/2024 17:27	53903	HALI_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
8/2/2024 17:27	53902	HALI_T2	1	1	0	4	4.2	0.2	-0.8	-0.76	0	0	0	0	0	0
8/2/2024 17:28	63402	HONY_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/2/2024 17:28	46503	LOHA_T1	0	0	0	0	0	0	-1.04	-1.02	0	0	0	0	0	0
8/2/2024 17:28	63403	HONY_T2	0	0	0	0	0	0	-0.4	-0.3	0	0	0	0	0	0
8/2/2024 17:28	46506	LOHA_T1	66	50	-16	0.16	0.16	0	0	0	0	0	0	0	0	0
8/2/2024 17:28	53903	HALI_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
8/2/2024 17:28	53902	HALI_T2	1	1	0	4	4.2	0.2	-0.4	-0.38	0	0	0	0	0	0
8/2/2024 17:32	57601	RUTH_T2	0	0	0	0	0	0	-1.45	-1.42	1	1	0	900	900	0
8/2/2024 17:32	57603	RUTH_T2	5	5	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/2/2024 17:43	47502	NECO_T1	1	1	0	0.8	1	0.2	1.04	1.03	0	0	0	0	0	0
8/2/2024 17:45	58402	MORO_T1	18	21	3	0.87	0.98	0.11	0	0	0	0	0	0	0	0
8/2/2024 17:45	58401	MORO_T1	1	2	1	1.1	0.3	-0.8	-0.74	-0.72	2	2	0	1500	1500	0
8/2/2024 17:45	25503	MADI_T1	0	0	0	0	0	0	-0.47	-0.51	0	0	0	0	0	0
8/2/2024 17:45	25501	MADI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 18:14	59003	MIFF_T1	0	1	1	0	0.2	0.2	-0.88	-0.59	0	0	0	0	0	0
8/2/2024 18:14	59002	MIFF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 18:26	46101	MACI_T2	0	9	9	0	0.11	0.11	-0.41	-0.42	1	1	0	1200	1200	0
8/2/2024 18:40	65604	QVIL_T2	1	1	0	0.8	0.3	-0.5	0.93	0.96	0	0	0	0	0	0
8/2/2024 18:40	65602	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 18:51	67703	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/2/2024 18:51	67702	WERN_T2	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
8/2/2024 18:52	64201	KINZ_T1	1	1	0	0.7	0.5	-0.2	-0.65	-0.7	4	4	0	2100	2100	0
8/2/2024 18:52	64204	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
8/2/2024 19:00	41902	REED_T1	6	16	10	0.47	0.53	0.06	0	0	0	0	0	0	0	0
8/2/2024 19:00	41901	REED_T1	10	10	0	1.19	0.82	-0.37	0	0	0	0	0	0	0	0
8/2/2024 19:00	41903	REED_T1	0	0	0	0	0	0	0.18	0.17	1	1	0	1200	1200	0
8/2/2024 19:02	64801	MONE_T2	8	2	-6	0.34	0	-0.34	0.26	0.25	0	0	0	0	0	0
8/2/2024 19:06	67703	WERN_T2	0	1	1	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/2/2024 19:28	42903	MIDD_T2	4	5	1	0.53	0.77	0.24	0.59	0.58	0	0	0	0	0	0
8/2/2024 19:28	42902	MIDD_T2	11	27	16	0.77	0.71	-0.06	0	0	0	0	0	0	0	0
8/2/2024 19:28	42901	MIDD_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
8/2/2024 19:44	43202	MVIL_T2	33	9	-24	0.24	0.2	-0.04	-0.44	-0.45	0	0	0	0	0	0
8/2/2024 20:24	56501	ROCK_T2	10	111	101	0.17	0.21	0.04	-1.46	-1.51	0	0	0	0	0	0
8/2/2024 20:39	25603	ARRO_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
8/2/2024 20:41	29402	BELT_T1	7	2	-5	1.34	4.25	2.91	0	0	0	0	0	0	0	0
8/2/2024 20:41	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/2/2024 20:43	25603	ARRO_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
8/2/2024 20:45	25603	ARRO_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
8/2/2024 20:45	25602	ARRO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 20:46	47002	HUGH_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/2/2024 20:46	47001	HUGH_T2	3	3	0	8.1	8.2	0.1	-0.22	-0.29	0	0	0	0	0	0
8/2/2024 20:47	47002	HUGH_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/2/2024 20:47	47001	HUGH_T2	3	3	0	8.1	8.2	0.1	-0.22	-0.29	0	0	0	0	0	0
8/2/2024 20:54	29402	BELT_T1	2	2	0	4.25	8.3	4.05	0	0	0	0	0	0	0	0
8/2/2024 20:55	61102	BERK_T5	0	0	0	0	0	0	1.2	1.15	1	1	0	300	300	0
8/2/2024 20:57	29402	BELT_T1	2	2	0	4.25	8.3	4.05	0	0	0	0	0	0	0	0
8/2/2024 20:57	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/2/2024 20:58	57103	SPHI_T2	0	0	0	0	0	0	-0.22	-0.23	1	1	0	600	600	0
8/2/2024 20:58	57104	SPHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 20:58	57106	SPHI_T2	3	3	0	1.07	0.97	-0.1	0	0	0	0	0	0	0	0
8/2/2024 20:59	61102	BERK_T5	0	0	0	0	0	0	1.2	1.15	1	1	0	300	300	0
8/2/2024 21:07	20401	ASHF_T2	2	4	2	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/2/2024 21:07	20402	ASHF_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
8/2/2024 21:07	20403	ASHF_T2	0	0	0	0	0	0	1.88	1.8	0	0	0	0	0	0
8/2/2024 21:07	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 21:07	42902	MIDD_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/2/2024 21:07	42903	MIDD_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/2/2024 21:08	20403	ASHF_T2	0	0	0	0	0	0	0.94	0.9	0	0	0	0	0	0
8/2/2024 21:08	20401	ASHF_T2	2	4	2	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/2/2024 21:08	20402	ASHF_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
8/2/2024 21:11	20403	ASHF_T2	0	0	0	0	0	0	0.94	0.9	0	0	0	0	0	0
8/2/2024 21:11	20402	ASHF_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
8/2/2024 21:11	20401	ASHF_T2	2	4	2	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/2/2024 21:13	20401	ASHF_T2	2	4	2	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/2/2024 21:13	20403	ASHF_T2	0	0	0	0	0	0	0.94	0.9	0	0	0	0	0	0
8/2/2024 21:13	20402	ASHF_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
8/2/2024 21:15	53601	DALM_T2	1	1	0	0.2	0.6	0.4	-0.49	-0.51	1	1	0	600	600	0
8/2/2024 21:24	46206	DANV_T2	2	2	0	1.35	1.05	-0.3	0	0	0	0	0	0	0	0
8/2/2024 21:24	46203	DANV_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
8/2/2024 21:25	53601	DALM_T2	1	1	0	0.2	0.6	0.4	-0.51	-0.52	1	1	0	600	600	0
8/2/2024 21:27	45501	DERR_T2	0	0	0	0	0	0	0.03	-0.01	2	2	0	1800	1800	0
8/2/2024 21:28	46206	DANV_T2	2	2	0	1.35	1.05	-0.3	1.96	1.94	4	4	0	4200	4200	0
8/2/2024 21:28	61703	ELIZ_T1	0	0	0	0	0	0	-2.35	-2.37	2	2	0	2100	2100	0
8/2/2024 21:28	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 21:28	61701	ELIZ_T1	1	1	0	2.7	3	0.3	0	0	0	0	0	0	0	0
8/2/2024 21:29	45502	DERR_T2	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
8/2/2024 21:29	45501	DERR_T2	0	0	0	0	0	0	0.03	-0.01	2	2	0	1800	1800	0
8/2/2024 21:29	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 21:31	61703	ELIZ_T1	0	0	0	0	0	0	-4.69	-4.74	4	4	0	4200	4200	0
8/2/2024 21:31	61701	ELIZ_T1	1	1	0	2.9	3.2	0.3	0	0	0	0	0	0	0	0
8/2/2024 21:38	61701	ELIZ_T1	1	1	0	2.9	3.2	0.3	0	0	0	0	0	0	0	0
8/2/2024 21:38	61703	ELIZ_T1	0	0	0	0	0	0	-2.37	-2.4	2	2	0	2100	2100	0
8/2/2024 22:07	21206	ECAR_T2	22	6	-16	1.15	1.6	0.45	0.45	0.4	0	0	0	0	0	0
8/2/2024 22:07	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:10	23202	HIRU_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
8/2/2024 22:10	64302	LINC_T2	4	3	-1	0.73	0.7	-0.03	1.56	1.59	0	0	0	0	0	0
8/2/2024 22:11	16402	MOPO_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
8/2/2024 22:11	24105	EHAZ_T1	4	4	0	6.63	6.35	-0.28	-0.63	-0.61	1	1	0	1200	1200	0
8/2/2024 22:11	24101	EHAZ_T1	6	20	14	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
8/2/2024 22:11	24102	EHAZ_T1	3	1	-2	0.53	0.2	-0.33	0	0	0	0	0	0	0	0
8/2/2024 22:11	24103	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:12	27605	PIRI_T2	0	2	2	0	0	0	0.01	-0.01	1	1	0	900	900	0
8/2/2024 22:12	27603	PIRI_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
8/2/2024 22:13	67002	STHI_T2	0	0	0	0	0	0	0.62	0.6	1	1	0	600	600	0
8/2/2024 22:13	67001	STHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/2/2024 22:14	22901	HARW_T1	10	9	-1	0.8	0.7	-0.1	-0.22	-0.06	1	1	0	1200	1200	0
8/2/2024 22:14	22903	HARW_T1	7	12	5	0.53	0.52	-0.01	0	0	0	0	0	0	0	0
8/2/2024 22:14	22905	HARW_T1	1	23	22	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
8/2/2024 22:15	48301	ORWI_T1	2	2	0	4.3	4.2	-0.1	-0.25	-0.27	1	1	0	900	900	0
8/2/2024 22:15	40302	TAMA_T3	0	0	0	0	0	0	-1.06	-1.08	0	0	0	0	0	0
8/2/2024 22:15	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:15	15604	NSTR_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
8/2/2024 22:15	42201	SHEN_T2	0	0	0	0	0	0	0.61	0.57	0	0	0	0	0	0
8/2/2024 22:16	26401	INOR_T1	1	1	0	7.5	7.3	-0.2	0	0	0	0	0	0	0	0
8/2/2024 22:16	16402	MOPO_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
8/2/2024 22:16	65004	NEFF_T2	0	0	0	0	0	0	-0.43	-0.41	1	1	0	600	600	0
8/2/2024 22:16	27502	WEIS_T2	3	7	4	0.43	0	-0.43	-0.12	-0.18	0	0	0	0	0	0
8/2/2024 22:16	26402	INOR_T1	0	0	0	0	0	0	-1.49	-0.89	1	0	-1	600	0	-600
8/2/2024 22:17	63402	HONY_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
8/2/2024 22:17	20601	GRWO_T2	78	83	5	0.46	0.39	-0.07	0.98	0.95	0	0	0	0	0	0
8/2/2024 22:17	27201	YATE_T1	0	0	0	0	0	0	0.14	0.1	0	0	0	0	0	0
8/2/2024 22:17	25503	MADI_T1	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
8/2/2024 22:17	63403	HONY_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
8/2/2024 22:18	46302	ROHR_T1	4	31	27	1.75	0.38	-1.37	0.34	0.35	0	0	0	0	0	0
8/2/2024 22:18	65802	RTWN_T2	0	0	0	0	0	0	-0.77	-0.8	0	0	0	0	0	0
8/2/2024 22:18	46301	ROHR_T1	125	312	187	0.3	0.45	0.15	0	0	0	0	0	0	0	0
8/2/2024 22:18	23401	HONE_T2	0	1	1	0	0	0	-0.13	-0.15	0	0	0	0	0	0
8/2/2024 22:18	61102	BERK_T5	0	0	0	0	0	0	0.67	0.71	1	1	0	300	300	0
8/2/2024 22:18	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/2/2024 22:19	67605	WARW_T1	3	3	0	0.77	1.13	0.36	-0.82	-0.91	0	0	0	0	0	0
8/2/2024 22:19	65603	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/2/2024 22:19	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.1	0	0	0	0	0	0
8/2/2024 22:19	67103	SPRI_T1	0	0	0	0	0	0	-0.59	-0.63	0	0	0	0	0	0
8/2/2024 22:19	65604	QVIL_T2	2	1	-1	0.15	0.2	0.05	0.85	0.78	0	0	0	0	0	0
8/2/2024 22:19	65601	QVIL_T2	1	8	7	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
8/2/2024 22:19	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:19	67602	WARW_T2	0	0	0	0	0	0	1.06	1.05	2	2	0	1500	1500	0
8/2/2024 22:19	40603	PIGR_T1	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
8/2/2024 22:19	65001	NEFF_T2	0	0	0	0	0	0	-0.49	-0.61	1	1	0	1200	1200	0
8/2/2024 22:19	15601	NSTR_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
8/2/2024 22:19	15603	NSTR_T2	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
8/2/2024 22:19	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:20	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
8/2/2024 22:20	51804	EBEN_T2	0	1	1	0	0	0	0.41	0.39	1	1	0	900	900	0
8/2/2024 22:20	66903	SHIL_T2	1	12	11	0.1	0.13	0.03	0	0	0	0	0	0	0	0
8/2/2024 22:20	66901	SHIL_T2	165	214	49	0.27	0.35	0.08	-0.83	-0.83	1	1	0	1200	1200	0
8/2/2024 22:20	22903	HARW_T1	7	12	5	1.6	0.58	-1.02	0	0	0	0	0	0	0	0
8/2/2024 22:20	64201	KINZ_T1	2	28	26	0.4	0.19	-0.21	-0.24	-0.22	3	3	0	1500	1500	0
8/2/2024 22:20	64203	KINZ_T1	0	28	28	0	0.2	0.2	0	0	0	0	0	0	0	0
8/2/2024 22:20	64802	MONE_T2	0	8	8	0	0	0	0.34	0.31	0	0	0	0	0	0
8/2/2024 22:20	64801	MONE_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:20	66902	SHIL_T2	9	35	26	0.13	0.18	0.05	0	0	0	0	0	0	0	0
8/2/2024 22:20	67602	WARW_T2	0	0	0	0	0	0	2.12	2.11	4	4	0	3000	3000	0
8/2/2024 22:20	64202	KINZ_T1	2	4	2	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
8/2/2024 22:20	48302	ORWI_T2	2	1	-1	0.25	0.3	0.05	-0.34	-0.34	0	0	0	0	0	0
8/2/2024 22:20	22905	HARW_T1	11	15	4	0.25	0.88	0.63	0	0	0	0	0	0	0	0
8/2/2024 22:20	22901	HARW_T1	8	4	-4	0.54	0.7	0.16	-0.22	-0.06	1	1	0	1200	1200	0
8/2/2024 22:20	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/2/2024 22:21	47101	MARL_T1	42	36	-6	1.04	1.38	0.34	-0.31	-0.33	0	0	0	0	0	0
8/2/2024 22:21	51402	LYKE_T1	4	17	13	0.1	0.19	0.09	0	0	0	0	0	0	0	0
8/2/2024 22:21	66702	STRA_T1	0	0	0	0	0	0	-0.86	-0.45	3	2	-1	2700	1500	-1200
8/2/2024 22:21	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
8/2/2024 22:21	54203	PENN_T1	8	18	10	0.63	0.39	-0.24	0	0	0	0	0	0	0	0
8/2/2024 22:21	67602	WARW_T2	0	0	0	0	0	0	2.11	2.08	4	4	0	3000	3000	0
8/2/2024 22:21	65901	SAKR_T2	1	1	0	7.4	7.6	0.2	-0.8	-0.84	2	2	0	1500	1500	0
8/2/2024 22:21	67702	WERN_T2	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/2/2024 22:21	22901	HARW_T1	8	4	-4	0.54	0.7	0.16	-0.22	-0.06	1	1	0	1200	1200	0
8/2/2024 22:21	22903	HARW_T1	7	12	5	1.6	0.58	-1.02	0	0	0	0	0	0	0	0
8/2/2024 22:21	22905	HARW_T1	11	15	4	0.25	0.88	0.63	0	0	0	0	0	0	0	0
8/2/2024 22:21	42204	SHEN_T2	0	0	0	0	0	0	-0.51	-0.53	1	1	0	1200	1200	0
8/2/2024 22:21	67603	WARW_T1	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
8/2/2024 22:21	40101	HUNT_T2	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
8/2/2024 22:21	64101	REFR_T1	0	0	0	0	0	0	-0.1	0.47	0	0	0	0	0	0
8/2/2024 22:21	57601	RUTH_T2	0	0	0	0	0	0	-0.73	-0.75	1	1	0	900	900	0
8/2/2024 22:21	15604	NSTR_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
8/2/2024 22:21	64203	KINZ_T1	0	28	28	0	0.2	0.2	0	0	0	0	0	0	0	0
8/2/2024 22:21	64202	KINZ_T1	2	4	2	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
8/2/2024 22:21	47401	PENS_T1	0	0	0	0	0	0	0.2	0.15	0	0	0	0	0	0
8/2/2024 22:21	67605	WARW_T1	3	3	0	0.77	1.13	0.36	0	0	0	0	0	0	0	0
8/2/2024 22:21	54201	PENN_T1	9	10	1	0.6	0.74	0.14	-1.67	-1.72	0	0	0	0	0	0
8/2/2024 22:21	57004	WHHI_T2	0	0	0	0	0	0	-0.08	-0.17	0	0	0	0	0	0
8/2/2024 22:21	67804	WLAN_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
8/2/2024 22:21	67801	WLAN_T1	0	62	62	0	0	0	-0.58	0.58	0	0	0	0	0	0
8/2/2024 22:21	57002	WHHI_T2	1	1	0	7.8	5.9	-1.9	0	0	0	0	0	0	0	0
8/2/2024 22:21	51401	LYKE_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
8/2/2024 22:21	64201	KINZ_T1	2	28	26	0.4	0.19	-0.21	-0.22	-0.31	3	3	0	1500	1500	0
8/2/2024 22:22	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
8/2/2024 22:22	54201	PENN_T1	9	10	1	0.6	0.74	0.14	0	0	0	0	0	0	0	0
8/2/2024 22:22	46301	ROHR_T1	125	312	187	0.3	0.45	0.15	0.39	0.36	0	0	0	0	0	0
8/2/2024 22:22	63602	LETO_T1	0	0	0	0	0	0	-0.22	-0.23	1	1	0	600	600	0
8/2/2024 22:22	57702	PAXT_T1	0	0	0	0	0	0	-0.26	-0.31	0	0	0	0	0	0
8/2/2024 22:22	43103	SMIL_T2	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
8/2/2024 22:22	64203	KINZ_T1	0	28	28	0	0.2	0.2	0	0	0	0	0	0	0	0
8/2/2024 22:22	64202	KINZ_T1	2	4	2	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
8/2/2024 22:22	42201	SHEN_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
8/2/2024 22:22	64302	LINC_T2	3	2	-1	1.3	0.55	-0.75	1.59	1.56	0	0	0	0	0	0
8/2/2024 22:22	52004	LING_T2	2	2	0	5.5	5.65	0.15	0.14	0.15	0	0	0	0	0	0
8/2/2024 22:22	65205	PRIN_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
8/2/2024 22:22	46101	MACI_T2	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
8/2/2024 22:22	54203	PENN_T1	8	18	10	0.63	0.39	-0.24	0.74	0.68	0	0	0	0	0	0
8/2/2024 22:22	55101	WERT_T1	0	0	0	0	0	0	-1.59	-1.62	3	3	0	2400	2400	0
8/2/2024 22:22	46302	ROHR_T1	4	31	27	1.75	0.38	-1.37	0	0	0	0	0	0	0	0
8/2/2024 22:22	67605	WARW_T1	3	3	0	0.77	1.13	0.36	-1.83	-1.83	0	0	0	0	0	0
8/2/2024 22:22	64201	KINZ_T1	2	28	26	0.4	0.19	-0.21	-0.22	-0.31	3	3	0	1500	1500	0
8/2/2024 22:22	43101	SMIL_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
8/2/2024 22:22	51304	WIND_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
8/2/2024 22:22	67602	WARW_T2	0	0	0	0	0	0	2.11	2.08	4	4	0	3000	3000	0
8/2/2024 22:23	65603	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/2/2024 22:23	66703	STRA_T1	0	0	0	0	0	0	0.38	0.31	0	0	0	0	0	0
8/2/2024 22:23	65601	QVIL_T2	1	8	7	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
8/2/2024 22:23	67303	WYOM_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
8/2/2024 22:23	64904	MILL_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
8/2/2024 22:23	22901	HARW_T1	8	4	-4	0.54	0.7	0.16	-0.06	-0.11	1	1	0	1200	1200	0
8/2/2024 22:23	56501	ROCK_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
8/2/2024 22:23	20601	GRWO_T2	78	83	5	0.46	0.39	-0.07	0.95	0.9	0	0	0	0	0	0
8/2/2024 22:23	64101	REFR_T1	0	0	0	0	0	0	-0.2	0.93	0	0	0	0	0	0
8/2/2024 22:23	53902	HALI_T2	1	1	0	4.2	4.9	0.7	-0.61	-0.65	0	0	0	0	0	0
8/2/2024 22:23	65904	SAKR_T2	0	0	0	0	0	0	-1.19	-1.21	3	3	0	1500	1500	0
8/2/2024 22:23	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:23	65901	SAKR_T2	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
8/2/2024 22:23	56504	ROCK_T2	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
8/2/2024 22:23	67602	WARW_T2	0	0	0	0	0	0	2.11	2.08	4	4	0	3000	3000	0
8/2/2024 22:23	67703	WEIN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/2/2024 22:23	65604	QVIL_T2	2	1	-1	0.15	0.2	0.05	0.78	0.77	0	0	0	0	0	0
8/2/2024 22:23	22903	HARW_T1	7	12	5	1.6	0.58	-1.02	0	0	0	0	0	0	0	0
8/2/2024 22:23	53903	HALI_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
8/2/2024 22:23	22905	HARW_T1	11	15	4	0.25	0.88	0.63	0	0	0	0	0	0	0	0
8/2/2024 22:24	52004	LING_T2	2	2	0	5.5	5.65	0.15	0	0	0	0	0	0	0	0
8/2/2024 22:24	53903	HALI_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
8/2/2024 22:24	27502	WEIS_T2	3	7	4	0.43	0	-0.43	-0.18	-0.21	0	0	0	0	0	0
8/2/2024 22:24	42802	SELI_T1	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
8/2/2024 22:24	64101	REFR_T1	0	0	0	0	0	0	-0.1	0.47	0	0	0	0	0	0
8/2/2024 22:24	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:24	13503	MCMI_T2	32	36	4	0.19	0.2	0.01	-0.64	-0.64	0	0	0	0	0	0
8/2/2024 22:24	64201	KINZ_T1	2	28	26	0.4	0.19	-0.21	-0.22	-0.31	3	3	0	1500	1500	0
8/2/2024 22:24	53902	HALI_T2	1	1	0	4.2	4.9	0.7	-0.61	-0.65	0	0	0	0	0	0
8/2/2024 22:24	56501	ROCK_T2	0	4	4	0	0.1	0.1	-0.47	-0.45	0	0	0	0	0	0
8/2/2024 22:24	64202	KINZ_T1	2	4	2	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
8/2/2024 22:24	63203	MGTN_T1	0	0	0	0	0	0	-0.09	-0.08	1	1	0	600	600	0
8/2/2024 22:24	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
8/2/2024 22:24	52002	LING_T2	0	0	0	0	0	0	-0.36	1.41	0	0	0	0	0	0
8/2/2024 22:24	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:24	64203	KINZ_T1	0	28	28	0	0.2	0.2	0	0	0	0	0	0	0	0
8/2/2024 22:24	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:25	55101	WERT_T1	0	0	0	0	0	0	-1.59	-1.62	3	3	0	2400	2400	0
8/2/2024 22:25	46506	LOHA_T1	465	304	-161	0.44	0.35	-0.09	-1.87	-1.91	2	2	0	2100	2100	0
8/2/2024 22:25	65603	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/2/2024 22:25	67605	WARW_T1	3	3	0	0.77	1.13	0.36	-0.91	-0.91	0	0	0	0	0	0
8/2/2024 22:25	57001	WHHI_T2	0	0	0	0	0	0	-1.96	-1.98	2	2	0	1800	1800	0
8/2/2024 22:25	51201	MTON_T1	0	0	0	0	0	0	0.7	0.64	0	0	0	0	0	0
8/2/2024 22:25	44203	POIN_T2	0	0	0	0	0	0	0.52	0.55	2	2	0	2100	2100	0
8/2/2024 22:25	65604	QVIL_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
8/2/2024 22:25	51804	EBEN_T2	0	1	1	0	0	0	0.39	0.4	1	1	0	900	900	0
8/2/2024 22:25	46504	LOHA_T1	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
8/2/2024 22:25	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:25	57002	WHHI_T2	1	1	0	7.8	5.9	-1.9	0	0	0	0	0	0	0	0
8/2/2024 22:25	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:25	64101	REFR_T1	0	0	0	0	0	0	-0.1	0.47	0	0	0	0	0	0
8/2/2024 22:25	66702	STRA_T1	0	0	0	0	0	0	-0.86	-0.45	2	2	0	1500	1500	0
8/2/2024 22:25	46501	LOHA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/2/2024 22:25	65601	QVIL_T2	1	8	7	0.3	0.15	-0.15	-0.26	-0.33	1	1	0	900	900	0
8/2/2024 22:26	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/2/2024 22:26	57004	WHHI_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
8/2/2024 22:26	67605	WARW_T1	3	3	0	0.77	1.13	0.36	-0.91	-0.91	0	0	0	0	0	0
8/2/2024 22:26	67602	WARW_T2	0	0	0	0	0	0	1.05	1.04	2	2	0	1500	1500	0
8/2/2024 22:26	45802	HEGI_T2	5	7	2	0.24	0.17	-0.07	0.23	0.31	0	0	0	0	0	0
8/2/2024 22:26	59302	MCAL_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/2/2024 22:26	44801	EDAN_T2	1	1	0	1.4	0.9	-0.5	0	0	0	0	0	0	0	0
8/2/2024 22:26	64101	REFR_T1	0	0	0	0	0	0	-0.2	0.93	0	0	0	0	0	0
8/2/2024 22:26	47401	PENS_T1	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
8/2/2024 22:26	54201	PENN_T1	9	10	1	0.6	0.74	0.14	-1.72	-1.7	0	0	0	0	0	0
8/2/2024 22:26	52004	LING_T2	2	2	0	5.5	5.65	0.15	0.14	0.15	0	0	0	0	0	0
8/2/2024 22:26	61404	SUT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:26	65901	SAKR_T2	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
8/2/2024 22:26	57006	WHHI_T2	0	0	0	0	0	0	2.59	2.48	1	1	0	600	600	0
8/2/2024 22:26	65904	SAKR_T2	0	0	0	0	0	0	-1.19	-1.21	3	3	0	1500	1500	0
8/2/2024 22:26	53902	HALI_T2	1	1	0	4.2	4.9	0.7	-1.22	-1.29	0	0	0	0	0	0
8/2/2024 22:26	59301	MCAL_T1	1	3	2	0.2	0.5	0.3	-1.08	-1.12	0	0	0	0	0	0
8/2/2024 22:26	54203	PENN_T1	8	18	10	0.63	0.39	-0.24	0	0	0	0	0	0	0	0
8/2/2024 22:26	67303	WYOM_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
8/2/2024 22:26	56504	ROCK_T2	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
8/2/2024 22:26	50701	SMEC_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
8/2/2024 22:26	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:26	44802	EDAN_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
8/2/2024 22:26	63305	GREE_T1	4	4	0	0.28	0.4	0.12	0	0	0	0	0	0	0	0
8/2/2024 22:26	40101	HUNT_T2	0	0	0	0	0	0	-0.98	-1.03	0	0	0	0	0	0
8/2/2024 22:26	27605	PIRI_T2	2	0	-2	0.15	0	-0.15	-0.01	-0.01	1	1	0	900	900	0
8/2/2024 22:26	27603	PIRI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/2/2024 22:26	53903	HALI_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
8/2/2024 22:26	60502	NIWA_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
8/2/2024 22:26	45801	HEGI_T1	0	0	0	0	0	0	0.01	-0.03	1	1	0	900	900	0
8/2/2024 22:26	56501	ROCK_T2	0	4	4	0	0.1	0.1	-0.93	-0.91	0	0	0	0	0	0
8/2/2024 22:26	57002	WHHI_T2	1	1	0	7.8	5.9	-1.9	-0.53	-0.6	0	0	0	0	0	0
8/2/2024 22:26	52404	GRPA_T2	0	1	1	0	0.4	0.4	0.05	0.01	0	0	0	0	0	0
8/2/2024 22:26	63304	GREE_T1	0	0	0	0	0	0	-1.03	-1.12	0	0	0	0	0	0
8/2/2024 22:26	52403	GRPA_T2	7	4	-3	0.69	0.6	-0.09	0	0	0	0	0	0	0	0
8/2/2024 22:26	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/2/2024 22:26	52402	GRPA_T2	2	2	0	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/2/2024 22:27	67602	WARW_T2	0	0	0	0	0	0	1.05	1.04	2	2	0	1500	1500	0
8/2/2024 22:27	59101	WALK_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
8/2/2024 22:27	46506	LOHA_T1	465	304	-161	0.44	0.35	-0.09	-1.87	-1.91	2	2	0	2100	2100	0
8/2/2024 22:27	56504	ROCK_T2	0	0	0	0	0	0	-1.57	-1.63	0	0	0	0	0	0
8/2/2024 22:27	57004	WHHI_T2	0	0	0	0	0	0	-0.33	-0.3	0	0	0	0	0	0
8/2/2024 22:27	43108	SMIL_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
8/2/2024 22:27	63602	LETO_T1	0	0	0	0	0	0	-0.22	-0.23	1	1	0	600	600	0
8/2/2024 22:27	63402	HONY_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
8/2/2024 22:27	64101	REFR_T1	0	0	0	0	0	0	-0.2	0.93	0	0	0	0	0	0
8/2/2024 22:27	59003	MIFF_T1	0	1	1	0	0.2	0.2	-0.21	-0.24	0	0	0	0	0	0
8/2/2024 22:27	46503	LOHA_T1	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
8/2/2024 22:27	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:27	20601	GRWO_T2	78	83	5	0.46	0.39	-0.07	0	0	0	0	0	0	0	0
8/2/2024 22:27	56501	ROCK_T2	0	4	4	0	0.1	0.1	-0.47	-0.45	0	0	0	0	0	0
8/2/2024 22:27	46101	MACI_T2	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
8/2/2024 22:27	20603	GRWO_T2	0	0	0	0	0	0	0	-0.35	-0.36	1	1	0	900	900	0
8/2/2024 22:27	46504	LOHA_T1	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
8/2/2024 22:27	43101	SMIL_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
8/2/2024 22:27	55002	NEWP_T1	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
8/2/2024 22:27	57704	PAXT_T2	0	0	0	0	0	0	-0.97	-0.98	1	1	0	900	900	0
8/2/2024 22:27	57002	WHHI_T2	1	1	0	7.8	5.9	-1.9	-0.53	-0.6	0	0	0	0	0	0
8/2/2024 22:27	45802	HEGI_T2	5	7	2	0.24	0.17	-0.07	0.23	0.31	0	0	0	0	0	0
8/2/2024 22:27	43202	MVIL_T2	52	94	42	0.28	0.53	0.25	-0.51	-0.53	0	0	0	0	0	0
8/2/2024 22:27	51306	WIND_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
8/2/2024 22:27	46501	LOHA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/2/2024 22:27	67605	WARW_T1	3	3	0	0.77	1.13	0.36	-0.91	-0.91	0	0	0	0	0	0
8/2/2024 22:27	55001	NEWP_T1	0	0	0	0	0	0	-0.48	-0.51	1	1	0	600	600	0
8/2/2024 22:27	63403	HONY_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
8/2/2024 22:28	67602	WARW_T2	0	0	0	0	0	0	1.05	1.04	2	2	0	1500	1500	0
8/2/2024 22:28	65603	QVIL_T2	0	2	2	0	0.15	0.15	0.47	0.47	0	0	0	0	0	0
8/2/2024 22:28	55101	WERT_T1	0	0	0	0	0	0	-4.76	-4.86	9	9	0	7200	7200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/2/2024 22:28	55405	SHER_T1	4	7	3	0.1	0.64	0.54	-0.17	-0.17	0	0	0	0	0	0
8/2/2024 22:28	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:28	45801	HEGI_T1	0	0	0	0	0	0	0.01	-0.03	1	1	0	900	900	0
8/2/2024 22:28	57702	PAXT_T1	0	0	0	0	0	0	-0.26	-0.31	0	0	0	0	0	0
8/2/2024 22:28	63305	GREE_T1	4	4	0	0.28	0.4	0.12	0	0	0	0	0	0	0	0
8/2/2024 22:28	65604	QVIL_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
8/2/2024 22:28	65601	QVIL_T2	1	8	7	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
8/2/2024 22:28	51004	NHAR_T1	2	9	7	3.5	6.6	3.1	0	0	0	0	0	0	0	0
8/2/2024 22:28	56501	ROCK_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
8/2/2024 22:28	41602	CLEV_T1	2	1	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/2/2024 22:28	51002	NHAR_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/2/2024 22:28	51003	NHAR_T1	0	6	6	0	0	0	-1.75	-1.88	1	1	0	1200	1200	0
8/2/2024 22:28	52501	PROG_T1	0	0	0	0	0	0	-0.83	-0.87	1	1	0	300	300	0
8/2/2024 22:28	50506	MECH_T1	0	0	0	0	0	0	0.67	0.64	0	0	0	0	0	0
8/2/2024 22:28	65902	SAKR_T2	0	0	0	0	0	0	-0.95	-0.97	1	1	0	900	900	0
8/2/2024 22:28	58401	MORO_T1	0	0	0	0	0	0	-0.39	-0.47	1	1	0	600	600	0
8/2/2024 22:28	63304	GREE_T1	0	0	0	0	0	0	-1.03	-1.12	0	0	0	0	0	0
8/2/2024 22:28	56504	ROCK_T2	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
8/2/2024 22:28	50502	MECH_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
8/2/2024 22:28	65901	SAKR_T2	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
8/2/2024 22:29	52403	GRPA_T2	7	4	-3	0.69	0.6	-0.09	0	0	0	0	0	0	0	0
8/2/2024 22:29	63401	HONY_T1	0	0	0	0	0	0	-0.14	-0.18	1	1	0	600	600	0
8/2/2024 22:29	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:29	46801	HEPB_T2	6	7	1	0.68	0.57	-0.11	-0.09	-0.09	0	0	0	0	0	0
8/2/2024 22:29	50506	MECH_T1	0	0	0	0	0	0	0.67	0.64	0	0	0	0	0	0
8/2/2024 22:29	63202	MGTN_T2	0	0	0	0	0	0	0.06	0.01	1	1	0	900	900	0
8/2/2024 22:29	42902	MIDD_T2	0	0	0	0	0	0	-0.96	-1.1	1	1	0	600	600	0
8/2/2024 22:29	53902	HALI_T2	1	1	0	4.2	4.9	0.7	0	0	0	0	0	0	0	0
8/2/2024 22:29	46803	HEPB_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/2/2024 22:29	53903	HALI_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
8/2/2024 22:29	64101	REFR_T1	0	0	0	0	0	0	-0.1	0.47	0	0	0	0	0	0
8/2/2024 22:29	59003	MIFF_T1	0	1	1	0	0.2	0.2	-0.21	-0.24	0	0	0	0	0	0
8/2/2024 22:29	52402	GRPA_T2	2	2	0	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/2/2024 22:29	50502	MECH_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
8/2/2024 22:29	56501	ROCK_T2	0	4	4	0	0.1	0.1	-1.86	-1.81	0	0	0	0	0	0
8/2/2024 22:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:29	47401	PENS_T1	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
8/2/2024 22:29	53901	HALI_T2	0	0	0	0	0	0	-0.94	-0.99	0	0	0	0	0	0
8/2/2024 22:29	52404	GRPA_T2	0	1	1	0	0.4	0.4	0.05	0.01	0	0	0	0	0	0
8/2/2024 22:29	58402	MORO_T1	0	0	0	0	0	0	0.26	0.22	2	2	0	1500	1500	0
8/2/2024 22:30	56501	ROCK_T2	0	4	4	0	0.1	0.1	-0.93	-0.91	0	0	0	0	0	0
8/2/2024 22:30	44703	MUNC_T2	3	0	-3	0.23	0	-0.23	0.95	0.92	0	0	0	0	0	0
8/2/2024 22:30	44702	MUNC_T2	47	2	-45	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
8/2/2024 22:30	52002	LING_T2	0	0	0	0	0	0	-0.18	0.7	0	0	0	0	0	0
8/2/2024 22:30	54701	NEBL_T1	1	1	0	0.3	0.8	0.5	0	0	1	1	0	600	600	0
8/2/2024 22:30	43101	SMIL_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
8/2/2024 22:30	64101	REFR_T1	0	0	0	0	0	0	-0.1	0.47	0	0	0	0	0	0
8/2/2024 22:30	47101	MARL_T1	35	34	-1	1.19	0.98	-0.21	-0.66	-0.76	0	0	0	0	0	0
8/2/2024 22:30	52004	LING_T2	2	2	0	5.65	5.45	-0.2	0	0	0	0	0	0	0	0
8/2/2024 22:30	57505	LAWN_T3	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
8/2/2024 22:30	43108	SMIL_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
8/2/2024 22:30	42902	MIDD_T2	0	0	0	0	0	0	-0.96	-1.1	1	1	0	600	600	0
8/2/2024 22:30	44701	MUNC_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/2/2024 22:30	45402	WBLO_T2	59	70	11	0.33	0.42	0.09	-1.23	-1.2	1	1	0	900	900	0
8/2/2024 22:31	43101	SMIL_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
8/2/2024 22:31	55002	NEWP_T1	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
8/2/2024 22:31	44802	EDAN_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
8/2/2024 22:31	64202	KINZ_T1	1	5	4	0.2	0.24	0.04	0	0	0	0	0	0	0	0
8/2/2024 22:31	59002	MIFF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/2/2024 22:31	45801	HEGI_T1	0	0	0	0	0	0	0.01	-0.03	1	1	0	900	900	0
8/2/2024 22:31	52002	LING_T2	0	0	0	0	0	0	-0.18	0.7	0	0	0	0	0	0
8/2/2024 22:31	51003	NHAR_T1	0	7	7	0	0.22	0.22	0	0	0	0	0	0	0	0
8/2/2024 22:31	55001	NEWP_T1	0	0	0	0	0	0	-0.48	-0.51	1	1	0	600	600	0
8/2/2024 22:31	55101	WERT_T1	0	0	0	0	0	0	-1.59	-1.62	3	3	0	2400	2400	0
8/2/2024 22:31	51004	NHAR_T1	9	1	-8	1.04	6.6	5.56	-0.7	-0.71	0	0	0	0	0	0
8/2/2024 22:31	64203	KINZ_T1	4	33	29	0.1	0.19	0.09	0	0	0	0	0	0	0	0
8/2/2024 22:31	44801	EDAN_T2	1	14	13	1.1	0.16	-0.94	-1.37	-1.4	0	0	0	0	0	0
8/2/2024 22:31	51002	NHAR_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
8/2/2024 22:31	43103	SMIL_T2	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
8/2/2024 22:31	57304	MOAL_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
8/2/2024 22:31	64204	KINZ_T1	1	4	3	1	0.33	-0.67	0	0	0	0	0	0	0	0
8/2/2024 22:31	57303	MOAL_T2	1	1	0	7.5	7.5	0	0	0	0	0	0	0	0	0
8/2/2024 22:31	46504	LOHA_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/2/2024 22:31	66703	STRA_T1	0	0	0	0	0	0	0.38	0.31	0	0	0	0	0	0
8/2/2024 22:31	53802	MBRG_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
8/2/2024 22:31	52004	LING_T2	2	2	0	5.65	5.45	-0.2	0	0	0	0	0	0	0	0
8/2/2024 22:31	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:31	64201	KINZ_T1	9	39	30	0.12	0.25	0.13	-0.22	-0.31	3	3	0	1500	1500	0
8/2/2024 22:31	46506	LOHA_T1	304	151	-153	0.35	0.24	-0.11	-3.75	-3.81	4	4	0	4200	4200	0
8/2/2024 22:31	59003	MIFF_T1	0	1	1	0	0.3	0.3	-0.43	-0.48	0	0	0	0	0	0
8/2/2024 22:32	67602	WARW_T2	0	0	0	0	0	0	1.05	1.04	2	2	0	1500	1500	0
8/2/2024 22:32	46801	HEPB_T2	7	2	-5	0.57	1.15	0.58	0	0	0	0	0	0	0	0
8/2/2024 22:32	46803	HEPB_T2	1	0	-1	0.2	0	-0.2	0.65	0.6	0	0	0	0	0	0
8/2/2024 22:32	64203	KINZ_T1	4	33	29	0.1	0.19	0.09	0.3	0.19	1	1	0	600	600	0
8/2/2024 22:32	44802	EDAN_T2	0	0	0	0	0	0	0	-0.41	0	0	0	0	0	0
8/2/2024 22:32	43101	SMIL_T2	1	1	0	1.2	0	-1.2	-0.53	-0.59	0	0	0	0	0	0
8/2/2024 22:32	51003	NHAR_T1	0	7	7	0	0.22	0.22	0	0	0	0	0	0	0	0
8/2/2024 22:32	43202	MVIL_T2	68	111	43	0.48	0.65	0.17	-1.02	-1.06	0	0	0	0	0	0
8/2/2024 22:32	52402	GRPA_T2	2	3	1	0.35	0.2	-0.15	-0.55	-0.56	0	0	0	0	0	0
8/2/2024 22:32	57702	PAXT_T1	0	0	0	0	0	0	-0.26	-0.31	0	0	0	0	0	0
8/2/2024 22:32	57002	WHHI_T2	1	1	0	7.6	0	-7.6	0	0	0	0	0	0	0	0
8/2/2024 22:32	53903	HALI_T2	0	2	2	0	0.35	0.35	-0.02	-0.04	0	0	0	0	0	0
8/2/2024 22:32	52404	GRPA_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/2/2024 22:32	53902	HALI_T2	1	1	0	4.8	4.9	0.1	-0.61	-0.65	0	0	0	0	0	0
8/2/2024 22:32	47401	PENS_T1	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
8/2/2024 22:32	56501	ROCK_T2	0	4	4	0	0.1	0.1	-0.47	-0.45	0	0	0	0	0	0
8/2/2024 22:32	51004	NHAR_T1	9	1	-8	1.04	6.6	5.56	-0.7	-0.71	0	0	0	0	0	0
8/2/2024 22:32	64204	KINZ_T1	1	4	3	1	0.33	-0.67	0	0	0	0	0	0	0	0
8/2/2024 22:32	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:32	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/2/2024 22:32	64201	KINZ_T1	9	39	30	0.12	0.25	0.13	0	0	0	0	0	0	0	0
8/2/2024 22:32	42903	MIDD_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
8/2/2024 22:32	50502	MECH_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
8/2/2024 22:32	40101	HUNT_T2	0	0	0	0	0	0	-0.98	-1.03	0	0	0	0	0	0
8/2/2024 22:32	51002	NHAR_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
8/2/2024 22:32	64202	KINZ_T1	1	5	4	0.2	0.24	0.04	0	0	0	0	0	0	0	0
8/2/2024 22:32	56504	ROCK_T2	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
8/2/2024 22:32	52403	GRPA_T2	4	12	8	0.5	0.33	-0.17	-0.48	-0.5	0	0	0	0	0	0
8/2/2024 22:32	42201	SHEN_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
8/2/2024 22:32	42802	SELI_T1	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
8/2/2024 22:32	44801	EDAN_T2	1	14	13	1.1	0.16	-0.94	0	0	0	0	0	0	0	0
8/2/2024 22:32	47502	NECO_T1	0	1	1	0	0.2	0.2	0.85	0.85	0	0	0	0	0	0
8/2/2024 22:32	55002	NEWP_T1	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
8/2/2024 22:32	55001	NEWP_T1	0	0	0	0	0	0	-0.97	-1.03	2	2	0	1200	1200	0
8/2/2024 22:33	41902	REED_T1	12	8	-4	0.54	0.4	-0.14	0.75	0.82	2	2	0	1800	1800	0
8/2/2024 22:33	46302	ROHR_T1	14	52	38	0.6	0.36	-0.24	0	0	0	0	0	0	0	0
8/2/2024 22:33	46503	LOHA_T1	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
8/2/2024 22:33	59101	WALK_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
8/2/2024 22:33	52401	GRPA_T2	0	1	1	0	0.2	0.2	0.23	0.25	0	0	0	0	0	0
8/2/2024 22:33	44801	EDAN_T2	1	14	13	1.1	0.16	-0.94	-1.37	-1.4	0	0	0	0	0	0
8/2/2024 22:33	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/2/2024 22:33	44702	MUNC_T2	47	2	-45	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
8/2/2024 22:33	46506	LOHA_T1	304	151	-153	0.35	0.24	-0.11	0	0	0	0	0	0	0	0
8/2/2024 22:33	44703	MUNC_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
8/2/2024 22:33	52403	GRPA_T2	4	12	8	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
8/2/2024 22:33	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:33	46504	LOHA_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/2/2024 22:33	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:33	41602	CLEV_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
8/2/2024 22:33	52404	GRPA_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/2/2024 22:33	42802	SELI_T1	0	0	0	0	0	0	-1.97	-2.05	0	0	0	0	0	0
8/2/2024 22:33	52402	GRPA_T2	2	3	1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
8/2/2024 22:33	56501	ROCK_T2	0	4	4	0	0.1	0.1	-0.47	-0.45	0	0	0	0	0	0
8/2/2024 22:33	46301	ROHR_T1	230	338	108	0.41	0.52	0.11	0.39	0.36	0	0	0	0	0	0
8/2/2024 22:33	44701	MUNC_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/2/2024 22:33	42902	MIDD_T2	0	0	0	0	0	0	-0.96	-1.1	1	1	0	600	600	0
8/2/2024 22:34	57004	WHHI_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
8/2/2024 22:34	40101	HUNT_T2	0	0	0	0	0	0	-0.98	-1.03	0	0	0	0	0	0
8/2/2024 22:34	42802	SELI_T1	0	0	0	0	0	0	-1.97	-2.05	0	0	0	0	0	0
8/2/2024 22:34	46504	LOHA_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/2/2024 22:34	57002	WHHI_T2	1	1	0	7.6	0	-7.6	0	0	0	0	0	0	0	0
8/2/2024 22:34	46301	ROHR_T1	230	338	108	0.41	0.52	0.11	0	0	0	0	0	0	0	0
8/2/2024 22:34	52403	GRPA_T2	4	12	8	0.5	0.33	-0.17	-0.48	-0.5	0	0	0	0	0	0
8/2/2024 22:34	52402	GRPA_T2	2	3	1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
8/2/2024 22:34	46506	LOHA_T1	304	151	-153	0.35	0.24	-0.11	-1.87	-1.91	2	2	0	2100	2100	0
8/2/2024 22:34	52404	GRPA_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/2/2024 22:34	46302	ROHR_T1	14	52	38	0.6	0.36	-0.24	0.35	0.33	0	0	0	0	0	0
8/2/2024 22:34	44801	EDAN_T2	1	14	13	1.1	0.16	-0.94	0	0	0	0	0	0	0	0
8/2/2024 22:34	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/2/2024 22:34	56501	ROCK_T2	0	4	4	0	0.1	0.1	-0.93	-0.91	0	0	0	0	0	0
8/2/2024 22:34	55101	WERT_T1	0	0	0	0	0	0	-1.59	-1.62	3	3	0	2400	2400	0
8/2/2024 22:34	43202	MVIL_T2	68	111	43	0.48	0.65	0.17	-1.02	-1.06	0	0	0	0	0	0
8/2/2024 22:34	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/2/2024 22:34	44802	EDAN_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
8/2/2024 22:34	58401	MORO_T1	0	0	0	0	0	0	-0.39	-0.47	1	1	0	600	600	0
8/2/2024 22:35	52002	LING_T2	0	0	0	0	0	0	-0.18	0.7	0	0	0	0	0	0
8/2/2024 22:35	42902	MIDD_T2	0	0	0	0	0	0	-1.92	-2.2	2	2	0	1200	1200	0
8/2/2024 22:35	44901	SCOT_T2	14	41	27	0.23	0.25	0.02	0.07	0.1	0	0	0	0	0	0
8/2/2024 22:35	51002	NHAR_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
8/2/2024 22:35	47502	NECO_T1	0	1	1	0	0.2	0.2	0.85	0.85	0	0	0	0	0	0
8/2/2024 22:35	52004	LING_T2	2	2	0	5.65	5.45	-0.2	0	0	0	0	0	0	0	0
8/2/2024 22:35	51003	NHAR_T1	0	7	7	0	0.22	0.22	0	0	0	0	0	0	0	0
8/2/2024 22:35	51004	NHAR_T1	9	1	-8	1.04	6.6	5.56	-0.7	-0.71	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/2/2024 22:35	44902	SCOT_T2	448	636	188	0.48	0.53	0.05	0	0	0	0	0	0	0	0
8/2/2024 22:35	44905	SCOT_T1	2	0	-2	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/2/2024 22:36	41902	REED_T1	12	8	-4	0.54	0.4	-0.14	0	0	0	0	0	0	0	0
8/2/2024 22:36	44802	EDAN_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
8/2/2024 22:36	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/2/2024 22:36	47101	MARL_T1	35	34	-1	1.19	0.98	-0.21	-0.33	-0.38	0	0	0	0	0	0
8/2/2024 22:36	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/2/2024 22:36	44801	EDAN_T2	1	14	13	1.1	0.16	-0.94	0	0	0	0	0	0	0	0
8/2/2024 22:36	52404	GRPA_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/2/2024 22:36	52403	GRPA_T2	4	12	8	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
8/2/2024 22:36	52402	GRPA_T2	2	3	1	0.35	0.2	-0.15	-0.55	-0.56	0	0	0	0	0	0
8/2/2024 22:36	41903	REED_T1	0	0	0	0	0	0	1.04	1.07	0	0	0	0	0	0
8/2/2024 22:37	49804	UNIV_T1	0	3	3	0	0.1	0.1	0.99	0.9	0	0	0	0	0	0
8/2/2024 22:37	41002	LAUR_T2	8	9	1	0.45	0.42	-0.03	0.07	0.08	0	0	0	0	0	0
8/2/2024 22:37	51402	LYKE_T1	10	17	7	0.14	0.19	0.05	0	0	0	0	0	0	0	0
8/2/2024 22:37	59101	WALK_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
8/2/2024 22:37	51401	LYKE_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
8/2/2024 22:37	49803	UNIV_T1	1	1	0	5.2	4.9	-0.3	0	0	0	0	0	0	0	0
8/2/2024 22:37	42802	SELI_T1	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
8/2/2024 22:38	63804	HEMP_T1	1	1	0	6	6.2	0.2	0.33	0.3	0	0	0	0	0	0
8/2/2024 22:44	59101	WALK_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
8/2/2024 23:24	43106	SMIL_T2	0	0	0	0	0	0	-1.38	-1.4	2	2	0	2400	2400	0
8/2/2024 23:24	65603	QVIL_T2	0	0	0	0	0	0	0.53	0.48	0	0	0	0	0	0
8/2/2024 23:51	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 0:16	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 1:44	13503	MCMI_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
8/3/2024 1:46	13503	MCMI_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
8/3/2024 5:04	65901	SAKE_T2	1	1	0	7.9	8.1	0.2	-0.73	-0.76	1	1	0	900	900	0
8/3/2024 6:52	29402	BELT_T1	70	24	-46	0.48	0.21	-0.27	0	0	0	0	0	0	0	0
8/3/2024 6:52	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 6:59	64201	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/3/2024 6:59	64204	KINZ_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/3/2024 6:59	64203	KINZ_T1	0	0	0	0	0	0	0.68	0.57	0	0	0	0	0	0
8/3/2024 7:23	51306	WIND_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
8/3/2024 7:25	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 7:27	50107	HARR_T3	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
8/3/2024 7:27	50105	HARR_T3	6	6	0	6.37	6.62	0.25	0	0	0	0	0	0	0	0
8/3/2024 7:27	50201	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 7:27	50103	HARR_T3	2	0	-2	0.1	0	-0.1	-1.29	-1.28	1	1	0	1200	1200	0
8/3/2024 7:28	50107	HARR_T3	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
8/3/2024 7:28	50201	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 7:28	50103	HARR_T3	2	0	-2	0.1	0	-0.1	-2.59	-2.55	2	2	0	2400	2400	0
8/3/2024 7:28	50105	HARR_T3	6	6	0	6.37	6.62	0.25	0	0	0	0	0	0	0	0
8/3/2024 7:29	63305	GREE_T1	0	0	0	0	0	0	-1.78	-1.79	1	1	0	900	900	0
8/3/2024 7:30	63305	GREE_T1	0	0	0	0	0	0	-1.78	-1.79	1	1	0	900	900	0
8/3/2024 7:43	53601	DALM_T2	1	0	-1	0.2	0	-0.2	-0.04	-0.03	0	0	0	0	0	0
8/3/2024 7:44	40101	HUNT_T2	0	0	0	0	0	0	-0.55	-0.52	0	0	0	0	0	0
8/3/2024 7:50	44902	SCOT_T2	0	0	0	0	0	0	-0.71	-0.64	0	0	0	0	0	0
8/3/2024 7:52	60201	ATGL_T2	5	1	-4	0.13	0.1	-0.03	0.68	0.66	0	0	0	0	0	0
8/3/2024 7:54	45501	DERR_T2	0	0	0	0	0	0	-0.4	-0.5	2	2	0	1800	1800	0
8/3/2024 8:01	41801	GOCI_T2	2	0	-2	0.45	0	-0.45	0	0	0	1	1	0	900	900
8/3/2024 8:04	13503	MCMI_T2	0	0	0	0	0	0	-0.83	-0.8	0	0	0	0	0	0
8/3/2024 8:05	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 8:09	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 8:09	40502	CRES_T2	2	3	1	0.1	0.2	0.1	0.01	-0.85	0	0	0	0	0	0
8/3/2024 8:12	60902	DONG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 8:12	40502	CRES_T2	2	3	1	0.1	0.2	0.1	0.01	-0.85	0	0	0	0	0	0
8/3/2024 8:12	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 8:12	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 8:16	46102	MACI_T1	0	0	0	0	0	0	0.81	0.87	0	0	0	0	0	0
8/3/2024 8:20	52501	PROG_T1	0	0	0	0	0	0	-0.94	-0.92	1	1	0	300	300	0
8/3/2024 8:20	41902	REED_T1	2	0	-2	0.35	0	-0.35	2.11	0.44	0	2	2	0	1800	1800
8/3/2024 8:20	51204	MTON_T2	0	0	0	0	0	0	-1.23	-1.24	2	2	0	1500	1500	0
8/3/2024 8:22	65603	QVIL_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
8/3/2024 8:25	45501	DERR_T2	0	0	0	0	0	0	-0.46	-0.19	2	2	0	1800	1800	0
8/3/2024 8:26	45501	DERR_T2	0	0	0	0	0	0	-0.46	-0.19	2	2	0	1800	1800	0
8/3/2024 8:29	46506	LOHA_T1	4	485	481	0.15	0.58	0.43	-1.97	-1.99	2	2	0	2100	2100	0
8/3/2024 8:29	46504	LOHA_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/3/2024 8:29	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 8:31	64902	MILL_T2	0	0	0	0	0	0	-0.84	-0.82	1	1	0	900	900	0
8/3/2024 8:32	64902	MILL_T2	0	0	0	0	0	0	-0.84	-0.82	1	1	0	900	900	0
8/3/2024 8:36	43202	MVIL_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
8/3/2024 8:48	47401	PENS_T1	2	11	9	1.45	0.87	-0.58	1.35	1.42	0	0	0	0	0	0
8/3/2024 8:52	61301	EARL_T1	0	0	0	0	0	0	-0.85	-0.9	2	2	0	1800	1800	0
8/3/2024 8:53	29402	BELT_T1	2	1	-1	4.65	8.5	3.85	0	0	0	0	0	0	0	0
8/3/2024 8:53	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 8:53	60201	ATGL_T2	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
8/3/2024 8:54	51902	COPA_T1	0	0	0	0	0	0	-1.37	-1.3	1	1	0	1200	1200	0
8/3/2024 8:54	29402	BELT_T1	2	1	-1	4.65	8.5	3.85	0	0	0	0	0	0	0	0
8/3/2024 8:54	61301	EARL_T1	0	0	0	0	0	0	-0.85	-0.9	2	2	0	1800	1800	0
8/3/2024 8:54	51904	COPA_T1	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
8/3/2024 8:54	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 8:55	61001	DONV_T1	0	0	0	0	0	0	0.13	0.17	0	0	0	0	0	0
8/3/2024 8:55	46503	LOHA_T1	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
8/3/2024 8:55	46501	LOHA_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
8/3/2024 8:55	46504	LOHA_T1	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/3/2024 8:55	29402	BELT_T1	2	1	-1	4.65	8.5	3.85	0	0	0	0	0	0	0	0
8/3/2024 8:55	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 8:55	46506	LOHA_T1	485	496	11	0.58	0.56	-0.02	0	0	0	0	0	0	0	0
8/3/2024 8:55	60201	ATGL_T2	0	0	0	0	0	0	1.64	1.64	0	0	0	0	0	0
8/3/2024 8:56	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/3/2024 8:56	29402	BELT_T1	2	1	-1	4.65	8.5	3.85	0	0	0	0	0	0	0	0
8/3/2024 8:56	60201	ATGL_T2	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
8/3/2024 8:57	51904	COPA_T1	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
8/3/2024 8:57	29402	BELT_T1	2	1	-1	4.65	8.5	3.85	0	0	0	0	0	0	0	0
8/3/2024 8:57	51902	COPA_T1	0	0	0	0	0	0	-1.37	-1.3	1	1	0	1200	1200	0
8/3/2024 8:58	51901	COPA_T1	0	0	0	0	0	0	-0.91	-0.92	1	1	0	1200	1200	0
8/3/2024 8:58	51904	COPA_T1	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
8/3/2024 8:58	61001	DONV_T1	0	0	0	0	0	0	0.13	0.17	0	0	0	0	0	0
8/3/2024 8:58	61002	DONV_T2	0	0	0	0	0	0	-0.67	-0.7	2	2	0	1200	1200	0
8/3/2024 9:00	22901	HARW_T1	16	41	25	0.48	0.83	0.35	-0.16	-0.23	1	1	0	1200	1200	0
8/3/2024 9:00	22905	HARW_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/3/2024 9:00	22903	HARW_T1	0	16	16	0	0.3	0.3	0	0	0	0	0	0	0	0
8/3/2024 9:01	22905	HARW_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/3/2024 9:01	52404	GRPA_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
8/3/2024 9:01	22903	HARW_T1	0	16	16	0	0.3	0.3	0	0	0	0	0	0	0	0
8/3/2024 9:01	52403	GRPA_T2	6	27	21	0.57	1.02	0.45	0	0	0	0	0	0	0	0
8/3/2024 9:01	52401	GRPA_T2	1	4	3	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/3/2024 9:01	22901	HARW_T1	16	41	25	0.48	0.83	0.35	-0.16	-0.23	1	1	0	1200	1200	0
8/3/2024 9:02	52401	GRPA_T2	1	4	3	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/3/2024 9:02	63403	HONY_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
8/3/2024 9:02	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
8/3/2024 9:02	52403	GRPA_T2	6	27	21	0.57	1.02	0.45	0	0	0	0	0	0	0	0
8/3/2024 9:02	44201	POIN_T1	10	0	-10	0.11	0	-0.11	-2.08	-1.95	2	2	0	2100	2100	0
8/3/2024 9:02	13503	MCMI_T2	1	1	0	0.4	0.2	-0.2	-1.47	-1.43	0	0	0	0	0	0
8/3/2024 9:02	27604	PIRI_T1	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
8/3/2024 9:02	52404	GRPA_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
8/3/2024 9:02	63402	HONY_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 9:03	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
8/3/2024 9:03	58706	ROSE_T2	2	2	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
8/3/2024 9:03	58701	ROSE_T2	0	0	0	0	0	0	-0.7	-0.62	1	1	0	600	600	0
8/3/2024 9:03	58705	ROSE_T2	4	2	-2	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
8/3/2024 9:04	44201	POIN_T1	10	0	-10	0.11	0	-0.11	-4.15	-3.9	4	4	0	4200	4200	0
8/3/2024 9:05	65202	PRIN_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/3/2024 9:05	65205	PRIN_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
8/3/2024 9:06	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 9:06	44201	POIN_T1	10	0	-10	0.11	0	-0.11	-8.3	-7.8	8	8	0	8400	8400	0
8/3/2024 9:06	65207	PRIN_T4	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/3/2024 9:06	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/3/2024 9:07	44201	POIN_T1	10	0	-10	0.11	0	-0.11	-1.95	-2.01	2	2	0	2100	2100	0
8/3/2024 9:07	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 9:07	20402	ASHF_T2	1	7	6	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/3/2024 9:07	20403	ASHF_T2	0	0	0	0	0	0	0.71	0.77	0	0	0	0	0	0
8/3/2024 9:07	20401	ASHF_T2	5	6	1	0.52	0.66	0.14	0	0	0	0	0	0	0	0
8/3/2024 9:08	16503	STRO_T2	0	0	0	0	0	0	-0.09	-0.09	1	1	0	1200	1200	0
8/3/2024 9:08	44201	POIN_T1	10	0	-10	0.11	0	-0.11	-1.95	-2.01	2	2	0	2100	2100	0
8/3/2024 9:09	29402	BELT_T1	1	1	0	8.5	8.4	-0.1	0	0	0	0	0	0	0	0
8/3/2024 9:09	44503	HAMI_T2	0	0	0	0	0	0	-0.96	-0.95	1	1	0	1200	1200	0
8/3/2024 9:09	20402	ASHF_T2	1	7	6	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/3/2024 9:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 9:09	20403	ASHF_T2	0	0	0	0	0	0	0.71	0.77	0	0	0	0	0	0
8/3/2024 9:09	44502	HAMI_T2	1	1	0	2.1	1.9	-0.2	0	0	0	0	0	0	0	0
8/3/2024 9:09	20401	ASHF_T2	5	6	1	0.52	0.66	0.14	0	0	0	0	0	0	0	0
8/3/2024 9:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 9:18	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 9:19	63401	HONY_T1	0	0	0	0	0	0	0.81	0.99	0	0	0	0	0	0
8/3/2024 9:19	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 9:19	46302	ROHR_T1	2	2	0	1.1	0.95	-0.15	0.65	0.66	0	0	0	0	0	0
8/3/2024 9:27	40201	BEGA_T2	5	4	-1	1.04	1.17	0.13	0	0	0	0	0	0	0	0
8/3/2024 9:32	52004	LING_T2	2	2	0	3.55	3.7	0.15	0	0	0	0	0	0	0	0
8/3/2024 9:33	60502	NMAN_T2	0	2	2	0	0	0	0.16	0.23	0	0	0	0	0	0
8/3/2024 9:35	43108	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/3/2024 9:35	43103	SMIL_T2	0	0	0	0	0	0	-1.15	-1.86	0	0	0	0	0	0
8/3/2024 9:35	43101	SMIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 9:36	43101	SMIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 9:36	42201	SHEN_T2	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
8/3/2024 9:36	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 9:36	43108	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/3/2024 9:36	43103	SMIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 9:38	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 9:39	43101	SMIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 9:39	43103	SMIL_T2	0	0	0	0	0	0	-1.86	-1.85	0	0	0	0	0	0
8/3/2024 9:39	43108	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/3/2024 9:41	20403	ASHF_T2	0	0	0	0	0	0	1.71	-0.62	0	0	0	0	0	0
8/3/2024 9:41	20402	ASHF_T2	6	13	7	0.55	0.57	0.02	0	0	0	0	0	0	0	0
8/3/2024 9:41	20401	ASHF_T2	6	7	1	0.68	0.65	-0.03	0	0	0	0	0	0	0	0
8/3/2024 9:47	61001	DONV_T1	1	1	0	0.2	0.1	-0.1	0.19	0.22	0	0	0	0	0	0
8/3/2024 9:47	64302	LINC_T2	14	5	-9	0.78	1	0.22	1.43	1.49	0	0	0	0	0	0
8/3/2024 9:48	16402	MOPO_T1	0	5	5	0	0.25	0.25	0.55	0.54	0	0	0	0	0	0
8/3/2024 9:49	64101	REFR_T1	0	1	1	0	0	0	0.41	0.42	0	0	0	0	0	0
8/3/2024 9:50	64101	REFR_T1	0	1	1	0	0	0	0.82	0.84	0	0	0	0	0	0
8/3/2024 9:50	42601	TUSC_T1	1	8	7	0.1	0	-0.1	0.15	0.19	2	2	0	1800	1800	0
8/3/2024 9:50	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 9:51	56504	ROCK_T2	0	0	0	0	0	0	-0.67	-0.6	0	0	0	0	0	0
8/3/2024 9:51	56501	ROCK_T2	1	3	2	0.5	0.37	-0.13	-3.74	-3.67	0	0	0	0	0	0
8/3/2024 9:51	64101	REFR_T1	0	1	1	0	0	0	0.42	0.53	0	0	0	0	0	0
8/3/2024 9:52	64101	REFR_T1	0	1	1	0	0	0	0.42	0.53	0	0	0	0	0	0
8/3/2024 9:52	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 9:52	42601	TUSC_T1	1	8	7	0.1	0	-0.1	0.19	0.21	2	2	0	1800	1800	0
8/3/2024 9:53	20401	ASHF_T2	6	7	1	0.63	1	0.37	0	0	0	0	0	0	0	0
8/3/2024 9:53	64101	REFR_T1	0	1	1	0	0	0	0.42	0.53	0	0	0	0	0	0
8/3/2024 9:53	20403	ASHF_T2	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
8/3/2024 9:53	20402	ASHF_T2	11	13	2	1.02	0.56	-0.46	0	0	0	0	0	0	0	0
8/3/2024 9:53	42201	SHEN_T2	0	0	0	0	0	0	0.72	0.75	0	0	0	0	0	0
8/3/2024 9:53	56501	ROCK_T2	1	3	2	0.5	0.37	-0.13	-1.84	-1.75	0	0	0	0	0	0
8/3/2024 9:54	53902	HALI_T2	1	1	0	3.6	4.2	0.6	-0.56	-0.54	0	0	0	0	0	0
8/3/2024 9:54	64101	REFR_T1	0	1	1	0	0	0	0.84	1.06	0	0	0	0	0	0
8/3/2024 9:55	67605	WARW_T1	0	0	0	0	0	0	-1.11	-1.11	0	0	0	0	0	0
8/3/2024 9:55	67602	WARW_T2	5	5	0	0.2	0	-0.2	1.08	1.01	2	2	0	1500	1500	0
8/3/2024 9:56	46203	DANV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/3/2024 9:56	46206	DANV_T2	5	4	-1	1.28	0.9	-0.38	-0.14	-0.13	1	1	0	1200	1200	0
8/3/2024 9:56	67602	WARW_T2	5	5	0	0.2	0	-0.2	1.08	1.01	2	2	0	1500	1500	0
8/3/2024 9:58	52404	GRPA_T2	2	0	-2	0.1	0	-0.1	-0.42	-0.39	0	0	0	0	0	0
8/3/2024 9:58	40101	HUNT_T2	0	1	1	0	0	0	-0.39	-0.32	0	0	0	0	0	0
8/3/2024 9:58	46206	DANV_T2	5	4	-1	1.28	0.9	-0.38	-0.14	-0.13	1	1	0	1200	1200	0
8/3/2024 9:58	52402	GRPA_T2	1	3	2	0.4	0.4	0	0	0	0	0	0	0	0	0
8/3/2024 9:58	52401	GRPA_T2	3	7	4	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
8/3/2024 9:58	52403	GRPA_T2	32	5	-27	0.65	0.76	0.11	0	0	0	0	0	0	0	0
8/3/2024 9:58	46203	DANV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/3/2024 10:00	55002	NEWP_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/3/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
8/3/2024 10:00	43108	SMIL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/3/2024 10:00	43103	SMIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 10:00	56501	ROCK_T2	3	2	-1	0.47	0.25	-0.22	-3.67	-3.51	0	0	0	0	0	0
8/3/2024 10:00	42601	TUSC_T1	0	15	15	0	0.24	0.24	0.19	0.21	2	2	0	1800	1800	0
8/3/2024 10:00	65207	PRIN_T4	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/3/2024 10:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 10:00	55001	NEWP_T1	0	0	0	0	0	0	-0.43	-0.4	1	1	0	600	600	0
8/3/2024 10:00	43102	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 10:00	52402	GRPA_T2	1	5	4	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
8/3/2024 10:00	61001	DONV_T1	0	1	1	0	0.1	0.1	0.22	0.3	0	0	0	0	0	0
8/3/2024 10:00	40505	CRES_T1	3	3	0	1.83	1.43	-0.4	0.83	0.84	0	0	0	0	0	0
8/3/2024 10:00	53902	HALI_T2	1	1	0	4.2	4.2	0	-0.56	-0.54	0	0	0	0	0	0
8/3/2024 10:00	16503	STRO_T2	0	0	0	0	0	0	-0.08	-0.07	1	1	0	1200	1200	0
8/3/2024 10:00	52401	GRPA_T2	7	1	-6	0.31	0	-0.31	0	0	0	0	0	0	0	0
8/3/2024 10:00	40504	CRES_T1	2	4	2	0.15	0.23	0.08	0	0	0	0	0	0	0	0
8/3/2024 10:00	52403	GRPA_T2	5	5	0	1.28	0.76	-0.52	0	0	0	0	0	0	0	0
8/3/2024 10:00	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-3.79	-3.73	4	4	0	4200	4200	0
8/3/2024 10:00	67503	WEWI_T2	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
8/3/2024 10:00	52404	GRPA_T2	0	0	0	0	0	0	-0.42	-0.39	0	0	0	0	0	0
8/3/2024 10:00	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/3/2024 10:05	60103	COCA_T2	0	0	0	0	0	0	-0.18	-0.17	2	2	0	2100	2100	0
8/3/2024 10:06	55002	NEWP_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/3/2024 10:06	55001	NEWP_T1	0	0	0	0	0	0	-0.43	-0.4	1	1	0	600	600	0
8/3/2024 10:07	65603	QVIL_T2	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
8/3/2024 10:07	65602	QVIL_T2	1	0	-1	3	0	-3	0	0	0	0	0	0	0	0
8/3/2024 10:07	56501	ROCK_T2	3	2	-1	0.47	0.25	-0.22	-1.75	-1.72	0	0	0	0	0	0
8/3/2024 10:07	65604	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 10:08	42601	TUSC_T1	0	15	15	0	0.24	0.24	0.21	0.26	2	2	0	1800	1800	0
8/3/2024 10:08	67602	WARW_T2	5	2	-3	0.28	0	-0.28	1.01	1.02	2	2	0	1500	1500	0
8/3/2024 10:09	43108	SMIL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/3/2024 10:09	44201	POIN_T1	0	0	0	0	0	0	-1.86	-1.81	2	2	0	2100	2100	0
8/3/2024 10:09	43103	SMIL_T2	0	0	0	0	0	0	-3.61	-3.64	0	0	0	0	0	0
8/3/2024 10:09	67602	WARW_T2	5	2	-3	0.28	0	-0.28	2.03	2.05	4	4	0	3000	3000	0
8/3/2024 10:09	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 10:09	40201	BEGA_T2	4	13	9	1.08	1.6	0.52	0	0	0	0	0	0	0	0
8/3/2024 10:09	43102	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 10:10	46206	DANV_T2	4	2	-2	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
8/3/2024 10:10	43103	SMIL_T2	0	0	0	0	0	0	-3.61	-3.64	0	0	0	0	0	0
8/3/2024 10:10	45501	DERR_T2	1	4	3	0.2	0.2	0	-0.19	-0.19	2	2	0	1800	1800	0
8/3/2024 10:10	46203	DANV_T2	0	0	0	0	0	0	-1.63	-1.59	0	0	0	0	0	0
8/3/2024 10:10	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 10:10	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 10:10	43108	SMIL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/3/2024 10:10	43102	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 10:10	29402	BELT_T1	3	89	86	0.13	0.91	0.78	0	0	0	0	0	0	0	0
8/3/2024 10:11	40201	BEGA_T2	4	13	9	1.08	1.6	0.52	0	0	0	0	0	0	0	0
8/3/2024 10:11	45501	DERR_T2	1	4	3	0.2	0.2	0	-0.38	-0.38	4	4	0	3600	3600	0
8/3/2024 10:11	53601	DALM_T2	2	2	0	1.05	1.5	0.45	0.03	0.04	0	0	0	0	0	0
8/3/2024 10:12	43102	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 10:12	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 10:12	43103	SMIL_T2	0	0	0	0	0	0	-1.8	-1.82	0	0	0	0	0	0
8/3/2024 10:12	43108	SMIL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/3/2024 10:13	29402	BELT_T1	3	89	86	0.13	0.91	0.78	0	0	0	0	0	0	0	0
8/3/2024 10:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 10:14	46203	DANV_T2	0	0	0	0	0	0	-3.27	-3.19	0	0	0	0	0	0
8/3/2024 10:14	52002	LING_T2	0	1	1	0	0	0	-0.14	-0.1	0	0	0	0	0	0
8/3/2024 10:14	52004	LING_T2	2	2	0	3.7	3.7	0	0	0	0	0	0	0	0	0
8/3/2024 10:14	46206	DANV_T2	4	2	-2	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
8/3/2024 10:15	20601	GRWO_T2	135	260	125	0.79	0.93	0.14	1	1.01	0	0	0	0	0	0
8/3/2024 10:16	52002	LING_T2	1	5	4	0.2	0	-0.2	-0.14	-0.1	0	0	0	0	0	0
8/3/2024 10:16	20601	GRWO_T2	135	260	125	0.79	0.93	0.14	1	1.01	0	0	0	0	0	0
8/3/2024 10:16	45802	HEGI_T2	2	5	3	0.65	0.25	-0.4	0.71	0.73	1	1	0	300	300	0
8/3/2024 10:16	63401	HONY_T1	0	0	0	0	0	0	0.61	0.5	0	0	0	0	0	0
8/3/2024 10:16	52004	LING_T2	2	3	1	3.45	3.7	0.25	0	0	0	0	0	0	0	0
8/3/2024 10:16	13503	MCMI_T2	1	1	0	0.2	0.4	0.2	-0.66	-0.6	0	0	0	0	0	0
8/3/2024 10:17	63401	HONY_T1	0	0	0	0	0	0	0.61	0.5	0	0	0	0	0	0
8/3/2024 10:17	41801	GOCI_T2	2	7	5	0.4	0.33	-0.07	0	0	1	1	0	900	900	0
8/3/2024 10:17	45802	HEGI_T2	2	5	3	0.65	0.25	-0.4	0.71	0.73	1	1	0	300	300	0
8/3/2024 10:19	54701	NEBL_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
8/3/2024 10:19	16402	MOPO_T1	5	9	4	1.54	1.36	-0.18	0.28	0.32	0	0	0	0	0	0
8/3/2024 10:19	40602	PIGR_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
8/3/2024 10:19	40603	PIGR_T1	3	32	29	0.17	0.43	0.26	0.01	0.04	1	1	0	900	900	0
8/3/2024 10:19	64302	LINC_T2	3	8	5	1	0.82	-0.18	1.53	1.5	0	0	0	0	0	0
8/3/2024 10:20	16402	MOPO_T1	5	9	4	1.54	1.36	-0.18	0.28	0.32	0	0	0	0	0	0
8/3/2024 10:20	42201	SHEN_T2	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
8/3/2024 10:21	13503	MCMI_T2	1	1	0	0.2	0.4	0.2	-0.6	-0.58	0	0	0	0	0	0
8/3/2024 10:21	63402	HONY_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/3/2024 10:21	63403	HONY_T2	0	0	0	0	0	0	-0.03	-0.57	0	0	0	0	0	0
8/3/2024 10:22	47402	PENS_T1	2	2	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
8/3/2024 10:22	47403	PENS_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
8/3/2024 10:22	20402	ASHF_T2	13	20	7	1.02	1.01	-0.01	0	0	0	0	0	0	0	0
8/3/2024 10:22	20403	ASHF_T2	0	1	1	0	0	0	-0.22	-0.08	0	0	0	0	0	0
8/3/2024 10:22	47401	PENS_T1	7	6	-1	0.94	0.92	-0.02	1.56	1.58	0	0	0	0	0	0
8/3/2024 10:22	20401	ASHF_T2	6	26	20	0.85	0.84	-0.01	0	0	0	0	0	0	0	0
8/3/2024 10:22	46302	ROHR_T1	5	5	0	0.42	0.48	0.06	0.77	0.73	0	0	0	0	0	0
8/3/2024 10:23	20402	ASHF_T2	13	20	7	1.02	1.01	-0.01	0	0	0	0	0	0	0	0
8/3/2024 10:23	64202	KINZ_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
8/3/2024 10:23	20401	ASHF_T2	6	26	20	0.85	0.84	-0.01	0	0	0	0	0	0	0	0
8/3/2024 10:23	20403	ASHF_T2	0	1	1	0	0	0	-0.22	-0.08	0	0	0	0	0	0
8/3/2024 10:23	64204	KINZ_T1	2	1	-1	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
8/3/2024 10:23	64203	KINZ_T1	1	1	0	0.2	0.1	-0.1	-0.28	-0.31	2	2	0	900	900	0
8/3/2024 10:24	20401	ASHF_T2	6	26	20	0.85	0.84	-0.01	0	0	0	0	0	0	0	0
8/3/2024 10:24	20403	ASHF_T2	0	1	1	0	0	0	-0.22	-0.08	0	0	0	0	0	0
8/3/2024 10:24	20402	ASHF_T2	13	20	7	1.02	1.01	-0.01	0	0	0	0	0	0	0	0
8/3/2024 10:24	43102	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/3/2024 10:24	43101	SMIL_T2	0	3	3	0	0	0	-0.51	-0.49	0	0	0	0	0	0
8/3/2024 10:24	43108	SMIL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
8/3/2024 10:25	61306	EARL_T1	0	0	0	0	0	0	-1.17	-1.15	0	0	0	0	0	0
8/3/2024 10:25	20403	ASHF_T2	0	1	1	0	0	0	-0.22	-0.08	0	0	0	0	0	0
8/3/2024 10:25	61303	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/3/2024 10:25	20402	ASHF_T2	13	20	7	1.02	1.01	-0.01	0	0	0	0	0	0	0	0
8/3/2024 10:25	42701	AUGU_T1	3	6	3	0.23	0.57	0.34	0	0	2	2	0	1800	1800	0
8/3/2024 10:25	20401	ASHF_T2	6	26	20	0.85	0.84	-0.01	0	0	0	0	0	0	0	0
8/3/2024 10:26	20402	ASHF_T2	13	20	7	1.02	1.01	-0.01	0	0	0	0	0	0	0	0
8/3/2024 10:26	20403	ASHF_T2	0	1	1	0	0	0	-0.22	-0.08	0	0	0	0	0	0
8/3/2024 10:26	20401	ASHF_T2	6	26	20	0.85	0.84	-0.01	0	0	0	0	0	0	0	0
8/3/2024 10:26	42701	AUGU_T1	3	6	3	0.23	0.57	0.34	0	0	2	2	0	1800	1800	0
8/3/2024 10:29	52004	LING_T2	2	3	1	3.45	3.7	0.25	0	0	0	0	0	0	0	0
8/3/2024 10:29	52002	LING_T2	1	5	4	0.2	0	-0.2	-0.1	-0.07	0	0	0	0	0	0
8/3/2024 10:30	22905	HARW_T1	19	26	7	0.58	0.39	-0.19	0	0	0	0	0	0	0	0
8/3/2024 10:30	22901	HARW_T1	23	21	-2	0.94	0.45	-0.49	-2.85	-2.44	2	2	0	2400	2400	0
8/3/2024 10:30	40101	HUNT_T2	1	3	2	0.2	0.1	-0.1	-0.38	-0.32	0	0	0	0	0	0
8/3/2024 10:30	22903	HARW_T1	22	22	0	1	0.55	-0.45	0	0	0	0	0	0	0	0
8/3/2024 10:31	41801	GOCI_T2	7	4	-3	0.33	0.23	-0.1	0	0	1	1	0	900	900	0
8/3/2024 10:31	57304	MOAL_T2	1	15	14	0.3	0.35	0.05	-0.57	-0.57	0	0	0	0	0	0
8/3/2024 10:31	13503	MCMI_T2	1	0	-1	0.4	0	-0.4	-0.6	-0.58	0	0	0	0	0	0
8/3/2024 10:31	57303	MOAL_T2	1	1	0	8.8	8.8	0	0	0	0	0	0	0	0	0
8/3/2024 10:32	64904	MILL_T1	0	0	0	0	0	0	0.37	0.43	0	0	0	0	0	0
8/3/2024 10:32	52004	LING_T2	2	2	0	3.7	3.6	-0.1	0	0	0	0	0	0	0	0
8/3/2024 10:32	41801	GOCI_T2	7	4	-3	0.33	0.23	-0.1	0	0	1	1	0	900	900	0
8/3/2024 10:32	52002	LING_T2	0	5	5	0	0	0	-0.1	-0.07	0	0	0	0	0	0
8/3/2024 10:32	46602	LACR_T1	0	0	0	0	0	0	-0.81	-0.79	0	0	0	0	0	0
8/3/2024 10:33	25503	MADI_T1	0	1	1	0	0	0	-0.52	-0.51	0	0	0	0	0	0
8/3/2024 10:33	25501	MADI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/3/2024 10:35	55001	NEWP_T1	0	8	8	0	0	0	-0.68	-0.64	2	2	0	1200	1200	0
8/3/2024 10:35	44203	POIN_T2	6	8	2	1.72	1.59	-0.13	0.5	0.56	1	1	0	900	900	0
8/3/2024 10:35	42802	SELI_T1	0	0	0	0	0	0	-1.71	-1.67	1	1	0	900	900	0
8/3/2024 10:35	55002	NEWP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/3/2024 10:35	44202	POIN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/3/2024 10:36	52004	LING_T2	2	2	0	3.7	3.6	-0.1	0	0	0	0	0	0	0	0
8/3/2024 10:36	44202	POIN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/3/2024 10:36	52002	LING_T2	0	5	5	0	0	0	-0.1	-0.07	0	0	0	0	0	0
8/3/2024 10:36	55101	WERT_T1	0	0	0	0	0	0	-4.42	-4.35	8	8	0	6600	6600	0
8/3/2024 10:36	44203	POIN_T2	6	8	2	1.72	1.59	-0.13	0.5	0.56	1	1	0	900	900	0
8/3/2024 10:36	42801	SELI_T1	0	0	0	0	0	0	-0.5	-0.45	1	1	0	1200	1200	0
8/3/2024 10:36	42802	SELI_T1	0	0	0	0	0	0	-1.71	-1.67	1	1	0	900	900	0
8/3/2024 10:36	41902	REED_T1	3	8	5	0.73	0.46	-0.27	0.38	0.34	1	1	0	900	900	0
8/3/2024 10:37	42802	SELI_T1	0	0	0	0	0	0	-1.67	-1.54	1	1	0	900	900	0
8/3/2024 10:37	41902	REED_T1	3	8	5	0.73	0.46	-0.27	0.34	0.42	1	1	0	900	900	0
8/3/2024 10:37	52004	LING_T2	2	2	0	3.7	3.6	-0.1	0	0	0	0	0	0	0	0
8/3/2024 10:37	55101	WERT_T1	0	0	0	0	0	0	-4.35	-4.23	8	8	0	6600	6600	0
8/3/2024 10:37	52002	LING_T2	0	5	5	0	0	0	-0.07	0	0	0	0	0	0	0
8/3/2024 10:38	42301	MOWR_T2	1	1	0	1.2	0.3	-0.9	0	0	0	0	0	0	0	0
8/3/2024 10:38	44203	POIN_T2	6	8	2	1.72	1.59	-0.13	0.56	0.68	1	1	0	900	900	0
8/3/2024 10:38	44202	POIN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/3/2024 10:38	42302	MOWR_T2	0	0	0	0	0	0	0.58	0.64	0	0	0	0	0	0
8/3/2024 10:39	44302	BEAV_T2	0	7	7	0	0.27	0.27	0	0	0	0	0	0	0	0
8/3/2024 10:39	55101	WERT_T1	0	0	0	0	0	0	-2.18	-2.12	4	4	0	3300	3300	0
8/3/2024 10:39	47402	PENS_T1	2	5	3	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
8/3/2024 10:39	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 10:39	64204	KINZ_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/3/2024 10:39	61102	BERK_T5	0	0	0	0	0	0	0.02	0.02	2	2	0	1200	1200	0
8/3/2024 10:39	44301	BEAV_T2	1	3	2	0.4	0.1	-0.3	-0.69	-0.68	1	1	0	600	600	0
8/3/2024 10:39	47403	PENS_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
8/3/2024 10:39	64203	KINZ_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/3/2024 10:39	64201	KINZ_T1	0	0	0	0	0	0	-0.44	-0.21	6	6	0	3000	3000	0
8/3/2024 10:39	47401	PENS_T1	6	9	3	0.8	1.02	0.22	1.58	1.81	0	0	0	0	0	0
8/3/2024 10:39	64202	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/3/2024 10:40	64202	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/3/2024 10:40	64203	KINZ_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/3/2024 10:40	64204	KINZ_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/3/2024 10:40	64201	KINZ_T1	0	0	0	0	0	0	-0.22	-0.11	3	3	0	1500	1500	0
8/3/2024 10:41	44301	BEAV_T2	1	3	2	0.4	0.1	-0.3	-0.69	-0.68	1	1	0	600	600	0
8/3/2024 10:41	67602	WARW_T2	2	7	5	0.1	0	-0.1	1.05	1.04	2	2	0	1500	1500	0
8/3/2024 10:41	44302	BEAV_T2	0	7	7	0	0.27	0.27	0	0	0	0	0	0	0	0
8/3/2024 10:42	53601	DALM_T2	2	3	1	1.5	0.67	-0.83	0.11	0.09	0	0	0	0	0	0
8/3/2024 10:42	29402	BELT_T1	89	74	-15	0.91	0.78	-0.13	0	0	0	0	0	0	0	0
8/3/2024 10:42	44302	BEAV_T2	0	7	7	0	0.27	0.27	0	0	0	0	0	0	0	0
8/3/2024 10:42	44301	BEAV_T2	1	3	2	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
8/3/2024 10:43	21601	EYNO_T1	11	9	-2	0.68	0.37	-0.31	0.45	-0.45	0	1	1	0	900	900
8/3/2024 10:43	29402	BELT_T1	89	74	-15	0.91	0.78	-0.13	0	0	0	0	0	0	0	0
8/3/2024 10:43	53601	DALM_T2	2	3	1	1.5	0.67	-0.83	0.11	0.09	0	0	0	0	0	0
8/3/2024 10:43	67605	WARW_T1	0	0	0	0	0	0	-2.04	-2.05	0	0	0	0	0	0
8/3/2024 10:43	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 10:44	22903	HARW_T1	22	22	0	1	0.55	-0.45	0	0	0	0	0	0	0	0
8/3/2024 10:44	22905	HARW_T1	19	26	7	0.58	0.39	-0.19	-0.4	-0.39	0	0	0	0	0	0
8/3/2024 10:44	52403	GRPA_T2	5	15	10	1.46	1.29	-0.17	0	0	0	0	0	0	0	0
8/3/2024 10:44	22901	HARW_T1	23	21	-2	0.94	0.45	-0.49	0	0	0	0	0	0	0	0
8/3/2024 10:44	52401	GRPA_T2	0	10	10	0	0.48	0.48	-0.26	-0.24	0	0	0	0	0	0
8/3/2024 10:44	52402	GRPA_T2	4	11	7	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/3/2024 10:45	24701	FLND_T2	9	10	1	1.26	0	-1.26	0	0	0	0	0	0	0	0
8/3/2024 10:45	46801	HEPB_T2	2	2	0	0.7	0.55	-0.15	0.1	0.15	0	0	0	0	0	0
8/3/2024 10:45	24702	FLND_T2	0	1	1	0	0	0	0.38	0.27	1	1	0	1200	1200	0
8/3/2024 10:46	22905	HARW_T1	16	26	10	0.34	0.34	0	0	0	0	0	0	0	0	0
8/3/2024 10:46	22904	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 10:46	22901	HARW_T1	21	12	-9	0.62	0.1	-0.52	-1.22	-1.3	1	1	0	1200	1200	0
8/3/2024 10:46	22903	HARW_T1	21	22	1	0.73	0.53	-0.2	0	0	0	0	0	0	0	0
8/3/2024 10:50	42903	MIDD_T2	3	3	0	1.07	1.23	0.16	0	0	0	0	0	0	0	0
8/3/2024 10:50	42902	MIDD_T2	2	1	-1	1.1	1	-0.1	-0.23	-0.22	0	0	0	0	0	0
8/3/2024 10:51	57106	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 10:51	57104	SPHI_T2	0	0	0	0	0	0	-0.99	-0.93	1	1	0	900	900	0
8/3/2024 10:52	40101	HUNT_T2	2	15	13	0.15	0.2	0.05	0	0	0	0	0	0	0	0
8/3/2024 10:54	49803	UNIV_T1	1	1	0	6.7	6.9	0.2	-1.62	-1.64	0	0	0	0	0	0
8/3/2024 10:59	65205	PRIN_T1	1	2	1	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
8/3/2024 11:00	21202	ECAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 11:00	21204	ECAR_T2	1	1	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
8/3/2024 11:00	21206	ECAR_T2	31	30	-1	1.03	1.02	-0.01	0	0	0	0	0	0	0	0
8/3/2024 11:01	51401	LYKE_T1	0	0	0	0	0	0	0.49	0.54	0	0	0	0	0	0
8/3/2024 11:04	52002	LING_T2	0	17	17	0	0.1	0.1	0	0.04	0	0	0	0	0	0
8/3/2024 11:04	52006	LING_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 11:04	52004	LING_T2	2	4	2	3.6	3.45	-0.15	0	0	0	0	0	0	0	0
8/3/2024 11:06	56501	ROCK_T2	3	2	-1	0.7	0.8	0.1	-1.67	-1.55	0	0	0	0	0	0
8/3/2024 11:07	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 11:07	56501	ROCK_T2	3	2	-1	0.7	0.8	0.1	-1.55	-1.5	0	0	0	0	0	0
8/3/2024 11:07	42802	SELI_T1	0	0	0	0	0	0	-1.58	-1.48	1	1	0	900	900	0
8/3/2024 11:08	42802	SELI_T1	0	0	0	0	0	0	-1.58	-1.48	1	1	0	900	900	0
8/3/2024 11:08	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 11:09	42802	SELI_T1	0	0	0	0	0	0	-1.58	-1.48	1	1	0	900	900	0
8/3/2024 11:09	56501	ROCK_T2	3	2	-1	0.7	0.8	0.1	-1.55	-1.5	0	0	0	0	0	0
8/3/2024 11:09	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 11:10	43108	SMIL_T2	1	1	0	0.4	0	-0.4	-1.7	-1.63	2	2	0	2400	2400	0
8/3/2024 11:10	42802	SELI_T1	0	0	0	0	0	0	-1.58	-1.48	1	1	0	900	900	0
8/3/2024 11:10	53502	EVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 11:10	43102	SMIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 11:10	42601	TUSC_T1	0	0	0	0	0	0	-0.94	-0.84	2	2	0	1800	1800	0
8/3/2024 11:10	43101	SMIL_T2	1	6	5	0.4	0.18	-0.22	0	0	0	0	0	0	0	0
8/3/2024 11:10	53501	EVIL_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
8/3/2024 11:11	43102	SMIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 11:11	43108	SMIL_T2	1	1	0	0.4	0	-0.4	-0.85	-0.81	1	1	0	1200	1200	0
8/3/2024 11:11	43101	SMIL_T2	1	6	5	0.4	0.18	-0.22	0	0	0	0	0	0	0	0
8/3/2024 11:11	61701	ELIZ_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
8/3/2024 11:11	44801	EDAN_T2	1	3	2	1.5	1.6	0.1	-1.26	-1.23	0	0	0	0	0	0
8/3/2024 11:11	44802	EDAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 11:11	61703	ELIZ_T1	0	0	0	0	0	0	-4.86	-4.83	4	4	0	4200	4200	0
8/3/2024 11:11	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 11:12	61701	ELIZ_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
8/3/2024 11:12	61703	ELIZ_T1	0	0	0	0	0	0	-2.43	-2.42	2	2	0	2100	2100	0
8/3/2024 11:12	53501	EVIL_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
8/3/2024 11:12	44801	EDAN_T2	1	3	2	1.5	1.6	0.1	-2.52	-2.45	0	0	0	0	0	0
8/3/2024 11:12	53502	EVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 11:12	44802	EDAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 11:13	61703	ELIZ_T1	0	0	0	0	0	0	-2.43	-2.42	2	2	0	2100	2100	0
8/3/2024 11:13	61701	ELIZ_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
8/3/2024 11:14	53501	EVIL_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
8/3/2024 11:14	53502	EVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 11:14	44802	EDAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 11:14	41801	GOCI_T2	4	3	-1	0.23	0.5	0.27	0	0	2	2	0	1800	1800	0
8/3/2024 11:14	44801	EDAN_T2	1	3	2	1.5	1.6	0.1	-1.26	-1.23	0	0	0	0	0	0
8/3/2024 11:15	53502	EVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 11:15	53501	EVIL_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
8/3/2024 11:16	53502	EVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 11:16	53501	EVIL_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
8/3/2024 11:17	47101	MARL_T1	50	91	41	1.04	1.01	-0.03	-0.66	-0.8	1	1	0	600	600	0
8/3/2024 11:19	47101	MARL_T1	50	91	41	1.04	1.01	-0.03	-0.66	-0.8	1	1	0	600	600	0
8/3/2024 11:20	56501	ROCK_T2	2	2	0	0.8	0.75	-0.05	-1.55	-1.5	0	0	0	0	0	0
8/3/2024 11:20	56504	ROCK_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
8/3/2024 11:20	47101	MARL_T1	50	91	41	1.04	1.01	-0.03	-1.33	-1.61	2	2	0	1200	1200	0
8/3/2024 11:21	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 11:21	59101	WALK_T2	1	3	2	1.3	0.25	-1.05	0.19	0.18	0	0	0	0	0	0
8/3/2024 11:22	54201	PENN_T1	3	3	0	0.57	0.9	0.33	-1.56	-1.52	0	0	0	0	0	0
8/3/2024 11:22	54203	PENN_T1	0	5	5	0	0.32	0.32	0	0	0	0	0	0	0	0
8/3/2024 11:22	41902	REED_T1	17	27	10	0.65	0.78	0.13	0.48	0.51	1	1	0	900	900	0
8/3/2024 11:22	47001	HUGH_T2	3	6	3	6.57	6.87	0.3	-0.88	-0.8	1	1	0	900	900	0
8/3/2024 11:22	47002	HUGH_T2	2	2	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
8/3/2024 11:23	59101	WALK_T2	1	3	2	1.3	0.25	-1.05	0.18	0.2	0	0	0	0	0	0
8/3/2024 11:23	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 11:24	55101	WERT_T1	5	8	3	0.16	0.36	0.2	-2.05	-1.97	4	4	0	3300	3300	0
8/3/2024 11:24	47001	HUGH_T2	3	6	3	6.57	6.87	0.3	-0.88	-0.8	1	1	0	900	900	0
8/3/2024 11:24	47002	HUGH_T2	2	2	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
8/3/2024 11:24	59101	WALK_T2	1	3	2	1.3	0.25	-1.05	0.18	0.2	0	0	0	0	0	0
8/3/2024 11:25	47001	HUGH_T2	3	6	3	6.57	6.87	0.3	-0.88	-0.8	1	1	0	900	900	0
8/3/2024 11:25	47002	HUGH_T2	2	2	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
8/3/2024 11:26	53501	EVIL_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
8/3/2024 11:26	53502	EVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 11:28	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 11:28	29402	BELT_T1	42	50	8	0.84	0.66	-0.18	0	0	0	0	0	0	0	0
8/3/2024 11:29	63304	GREE_T1	0	0	0	0	0	0	-3.12	-3.26	1	1	0	1200	1200	0
8/3/2024 11:30	63304	GREE_T1	0	0	0	0	0	0	-3.12	-3.26	1	1	0	1200	1200	0
8/3/2024 11:30	44801	EDAN_T2	3	6	3	0.8	0.58	-0.22	-1.23	-1.2	0	0	0	0	0	0
8/3/2024 11:30	41801	GOCI_T2	1	1	0	0.9	0.8	-0.1	0	0	1	1	0	900	900	0
8/3/2024 11:33	56504	ROCK_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
8/3/2024 11:33	56501	ROCK_T2	2	3	1	0.8	0.53	-0.27	0	0	0	0	0	0	0	0
8/3/2024 11:33	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 11:34	56504	ROCK_T2	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
8/3/2024 11:34	56501	ROCK_T2	2	3	1	0.8	0.53	-0.27	0	0	0	0	0	0	0	0
8/3/2024 11:34	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 11:37	59202	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 11:38	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 11:38	56504	ROCK_T2	0	0	0	0	0	0	-0.45	-0.41	0	0	0	0	0	0
8/3/2024 11:38	40201	BEGA_T2	16	23	7	0.78	1.01	0.23	0	0	0	0	0	0	0	0
8/3/2024 11:38	56501	ROCK_T2	2	3	1	0.8	0.53	-0.27	0	0	0	0	0	0	0	0
8/3/2024 11:39	42701	AUGU_T1	47	62	15	0.45	0.68	0.23	0	0	0	0	0	0	0	0
8/3/2024 11:39	59202	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 11:39	40201	BEGA_T2	16	23	7	0.78	1.01	0.23	0	0	0	0	0	0	0	0
8/3/2024 11:40	52204	DEVO_T2	6	6	0	1.7	1.48	-0.22	0	0	0	0	0	0	0	0
8/3/2024 11:40	52202	DEVO_T2	0	1	1	0	0	0	-5.57	-5.45	0	0	0	0	0	0
8/3/2024 11:41	46206	DANV_T2	2	2	0	0.75	0.4	-0.35	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/3/2024 11:41	46203	DANV_T2	4	3	-1	0.5	0.5	0	-2.75	-2.76	0	0	0	0	0	0
8/3/2024 11:41	46204	DANV_T2	2	2	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/3/2024 11:42	52204	DEVO_T2	6	6	0	1.7	1.48	-0.22	0	0	0	0	0	0	0	0
8/3/2024 11:42	52202	DEVO_T2	0	1	1	0	0	0	-1.86	-1.82	0	0	0	0	0	0
8/3/2024 11:43	56501	ROCK_T2	2	3	1	0.8	0.53	-0.27	0	0	0	0	0	0	0	0
8/3/2024 11:43	56504	ROCK_T2	0	0	0	0	0	0	-0.45	-0.41	0	0	0	0	0	0
8/3/2024 11:43	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 11:43	40201	BEGA_T2	16	23	7	0.78	1.01	0.23	0	0	0	0	0	0	0	0
8/3/2024 11:43	42701	AUGU_T1	47	62	15	0.45	0.68	0.23	0	0	2	2	0	1800	1800	0
8/3/2024 11:46	41002	LAUR_T2	3	3	0	0.17	0.63	0.46	0.32	0.33	0	0	0	0	0	0
8/3/2024 11:48	26402	INOR_T1	2	15	13	0.25	0.43	0.18	-1.17	-1.16	1	1	0	600	600	0
8/3/2024 11:48	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 11:48	26401	INOR_T1	4	4	0	1.88	1.77	-0.11	0	0	0	0	0	0	0	0
8/3/2024 11:49	64101	REFR_T1	6	10	4	0.67	1.09	0.42	0.62	0.63	0	0	0	0	0	0
8/3/2024 11:50	64101	REFR_T1	6	10	4	0.67	1.09	0.42	1.24	1.25	0	0	0	0	0	0
8/3/2024 11:51	55101	WERT_T1	8	22	14	0.4	0.46	0.06	-1.97	-1.86	4	4	0	3300	3300	0
8/3/2024 11:51	64101	REFR_T1	6	10	4	0.67	1.09	0.42	1.88	1.74	0	0	0	0	0	0
8/3/2024 11:51	55105	WERT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 11:51	66901	SHIL_T2	0	0	0	0	0	0	-0.71	-0.71	1	1	0	1200	1200	0
8/3/2024 11:52	55105	WERT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 11:52	55101	WERT_T1	8	22	14	0.4	0.46	0.06	-1.86	-1.93	4	4	0	3300	3300	0
8/3/2024 11:52	64101	REFR_T1	6	10	4	0.67	1.09	0.42	0.63	0.58	0	0	0	0	0	0
8/3/2024 11:53	59101	WALK_T2	2	2	0	0.4	0	-0.4	0.28	0.26	0	0	0	0	0	0
8/3/2024 11:53	64101	REFR_T1	6	10	4	0.67	1.09	0.42	0.63	0.58	0	0	0	0	0	0
8/3/2024 11:53	27502	WEIS_T2	56	318	262	0.89	0.82	-0.07	-0.19	-0.11	0	0	0	0	0	0
8/3/2024 11:54	20401	ASHF_T2	57	114	57	0.51	0.78	0.27	0	0	0	0	0	0	0	0
8/3/2024 11:54	20403	ASHF_T2	11	31	20	0.26	0.6	0.34	0.05	0.08	0	0	0	0	0	0
8/3/2024 11:54	20402	ASHF_T2	26	179	153	0.77	0.46	-0.31	0	0	0	0	0	0	0	0
8/3/2024 11:55	46005	BERW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 11:55	46001	BERW_T1	3	0	-3	0.17	0	-0.17	0.04	0.09	0	0	0	0	0	0
8/3/2024 11:55	42701	AUGU_T1	55	64	9	0.73	0.72	-0.01	0	0	0	0	0	0	0	0
8/3/2024 11:56	51004	NHAR_T1	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
8/3/2024 11:56	51003	NHAR_T1	0	5	5	0	0	0	-1.76	-1.73	1	1	0	1200	1200	0
8/3/2024 11:58	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 11:58	56504	ROCK_T2	0	1	1	0	0	0	-0.41	-0.39	0	0	0	0	0	0
8/3/2024 11:58	63803	HEMP_T1	0	0	0	0	0	0	0.94	0.99	0	0	0	0	0	0
8/3/2024 11:58	56501	ROCK_T2	2	3	1	0.75	0.53	-0.22	0	0	0	0	0	0	0	0
8/3/2024 11:58	63804	HEMP_T1	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0	0
8/3/2024 11:59	46005	BERW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 11:59	46001	BERW_T1	3	0	-3	0.17	0	-0.17	0.04	0.09	0	0	0	0	0	0
8/3/2024 12:00	52004	LING_T2	5	8	3	1.86	1.7	-0.16	0.22	0.24	0	0	0	0	0	0
8/3/2024 12:00	52006	LING_T2	4	0	-4	0.78	0	-0.78	0	0	0	0	0	0	0	0
8/3/2024 12:00	52002	LING_T2	33	36	3	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
8/3/2024 12:01	52401	GRPA_T2	13	6	-7	0.36	0	-0.36	-0.74	-0.75	0	0	0	0	0	0
8/3/2024 12:01	52403	GRPA_T2	36	59	23	0.78	1.02	0.24	0	0	0	0	0	0	0	0
8/3/2024 12:01	52402	GRPA_T2	13	13	0	0.52	0.76	0.24	0	0	0	0	0	0	0	0
8/3/2024 12:01	67602	WARW_T2	5	32	27	0.34	0.44	0.1	1.96	2.01	4	4	0	3000	3000	0
8/3/2024 12:02	58402	MORO_T1	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/3/2024 12:02	58401	MORO_T1	0	3	3	0	0.47	0.47	-1.14	-1.14	2	2	0	1500	1500	0
8/3/2024 12:03	58402	MORO_T1	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/3/2024 12:03	58401	MORO_T1	0	3	3	0	0.47	0.47	-1.14	-1.14	2	2	0	1500	1500	0
8/3/2024 12:05	44203	POIN_T2	0	0	0	0	0	0	-0.45	-0.48	2	2	0	2100	2100	0
8/3/2024 12:06	57702	PAXT_T1	0	0	0	0	0	0	-1.02	-0.96	0	0	0	0	0	0
8/3/2024 12:07	46302	ROHR_T1	5	6	1	1.16	0.6	-0.56	0.95	0.98	0	0	0	0	0	0
8/3/2024 12:08	27502	WEIS_T2	88	718	630	0.86	0.7	-0.16	-0.11	0.18	0	0	0	0	0	0
8/3/2024 12:09	40201	BEGA_T2	16	49	33	1.03	1.46	0.43	0	0	0	0	0	0	0	0
8/3/2024 12:09	20402	ASHF_T2	100	176	76	0.48	0.49	0.01	0	0	0	0	0	0	0	0
8/3/2024 12:09	20401	ASHF_T2	109	108	-1	0.99	0.51	-0.48	0	0	0	0	0	0	0	0
8/3/2024 12:09	20403	ASHF_T2	15	28	13	0.76	1.2	0.44	0.08	0.06	0	0	0	0	0	0
8/3/2024 12:11	60901	DONG_T2	1	5	4	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/3/2024 12:11	58803	COCO_T1	2	52	50	0.45	0.33	-0.12	-0.64	-0.66	1	1	0	600	600	0
8/3/2024 12:11	40201	BEGA_T2	16	49	33	1.03	1.46	0.43	0	0	0	0	0	0	0	0
8/3/2024 12:11	53601	DALM_T2	2	3	1	1.75	0.4	-1.35	-0.37	-0.39	0	0	0	0	0	0
8/3/2024 12:11	60902	DONG_T2	0	1	1	0	0	0	0.8	0.81	0	0	0	0	0	0
8/3/2024 12:12	53501	EVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 12:12	53502	EVIL_T2	0	0	0	0	0	0	0.19	0.12	2	2	0	1200	1200	0
8/3/2024 12:13	53502	EVIL_T2	0	0	0	0	0	0	0.19	0.12	2	2	0	1200	1200	0
8/3/2024 12:13	46204	DANV_T2	2	1	-1	1.05	0.3	-0.75	0	0	0	0	0	0	0	0
8/3/2024 12:13	46203	DANV_T2	2	8	6	0.5	0.23	-0.27	-1.48	-2.24	0	0	0	0	0	0
8/3/2024 12:13	53501	EVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 12:13	46206	DANV_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
8/3/2024 12:14	46206	DANV_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
8/3/2024 12:14	46204	DANV_T2	2	1	-1	1.05	0.3	-0.75	0	0	0	0	0	0	0	0
8/3/2024 12:14	46203	DANV_T2	2	8	6	0.5	0.23	-0.27	-2.97	-4.48	0	0	0	0	0	0
8/3/2024 12:15	67702	WERN_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
8/3/2024 12:15	64302	LINC_T2	34	49	15	0.6	0.64	0.04	1.52	1.51	0	0	0	0	0	0
8/3/2024 12:15	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 12:15	21206	ECAR_T2	51	98	47	0.82	0.83	0.01	0.39	0.41	0	0	0	0	0	0
8/3/2024 12:15	21202	ECAR_T2	2	2	0	0.2	0.85	0.65	0	0	0	0	0	0	0	0
8/3/2024 12:16	42901	MIDD_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/3/2024 12:16	42903	MIDD_T2	2	5	3	1.25	0.94	-0.31	0	0	0	0	0	0	0	0
8/3/2024 12:16	42902	MIDD_T2	15	28	13	0.84	1.48	0.64	-0.17	-0.19	0	0	0	0	0	0
8/3/2024 12:16	58803	COCO_T1	16	116	100	0.37	0.32	-0.05	-0.64	-0.66	1	1	0	600	600	0
8/3/2024 12:18	42902	MIDD_T2	15	28	13	0.84	1.48	0.64	-0.17	-0.19	0	0	0	0	0	0
8/3/2024 12:18	24204	PROV_T3	1	1	0	7	7.4	0.4	0	0	0	0	0	0	0	0
8/3/2024 12:18	24201	PROV_T3	3	4	1	2.13	1.93	-0.2	-0.55	-0.5	1	1	0	1200	1200	0
8/3/2024 12:18	42901	MIDD_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/3/2024 12:18	42903	MIDD_T2	2	5	3	1.25	0.94	-0.31	0	0	0	0	0	0	0	0
8/3/2024 12:18	52004	LING_T2	5	9	4	1.7	1.67	-0.03	0.24	0.29	0	0	0	0	0	0
8/3/2024 12:18	52002	LING_T2	26	33	7	0.41	0	-0.41	0	0	0	0	0	0	0	0
8/3/2024 12:19	42903	MIDD_T2	2	5	3	1.25	0.94	-0.31	0	0	0	0	0	0	0	0
8/3/2024 12:19	42902	MIDD_T2	15	28	13	0.84	1.48	0.64	-0.17	-0.19	0	0	0	0	0	0
8/3/2024 12:19	42901	MIDD_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/3/2024 12:20	64101	REFR_T1	10	10	0	1.5	1.07	-0.43	0.58	0.06	0	0	0	0	0	0
8/3/2024 12:20	53502	EVIL_T2	0	0	0	0	0	0	0.19	0.12	2	2	0	1200	1200	0
8/3/2024 12:20	53501	EVIL_T2	0	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0
8/3/2024 12:21	42902	MIDD_T2	15	28	13	0.84	1.48	0.64	0	0	0	0	0	0	0	0
8/3/2024 12:21	42903	MIDD_T2	2	5	3	1.25	0.94	-0.31	0.17	0.47	0	0	0	0	0	0
8/3/2024 12:21	42901	MIDD_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/3/2024 12:21	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 12:21	64101	REFR_T1	10	10	0	1.5	1.07	-0.43	0.06	0.09	0	0	0	0	0	0
8/3/2024 12:22	54203	PENN_T1	1	5	4	0.2	0.28	0.08	0	0	0	0	0	0	0	0
8/3/2024 12:22	54201	PENN_T1	3	3	0	0.3	0.6	0.3	-1.44	-1.38	0	0	0	0	0	0
8/3/2024 12:22	28805	LAKE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 12:23	64101	REFR_T1	10	10	0	1.5	1.07	-0.43	0.06	0.09	0	0	0	0	0	0
8/3/2024 12:23	59101	WALK_T2	0	1	1	0	0.1	0.1	0.2	0.26	0	0	0	0	0	0
8/3/2024 12:24	59101	WALK_T2	0	1	1	0	0.1	0.1	0.2	0.26	0	0	0	0	0	0
8/3/2024 12:24	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 12:25	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 12:25	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/3/2024 12:25	40201	BEGA_T2	10	53	43	1.18	0.7	-0.48	0	0	0	0	0	0	0	0
8/3/2024 12:26	40201	BEGA_T2	10	53	43	1.18	0.7	-0.48	0	0	0	0	0	0	0	0
8/3/2024 12:26	45502	DERR_T2	7	10	3	0.29	0.22	-0.07	-0.46	-0.47	0	0	0	0	0	0
8/3/2024 12:26	45501	DERR_T2	10	7	-3	0.39	0.7	0.31	0	0	0	0	0	0	0	0
8/3/2024 12:27	53601	DALM_T2	2	3	1	0.4	0.3	-0.1	-0.39	-0.42	0	0	0	0	0	0
8/3/2024 12:27	45501	DERR_T2	10	7	-3	0.39	0.7	0.31	-0.05	-0.04	2	2	0	1800	1800	0
8/3/2024 12:27	45502	DERR_T2	7	10	3	0.29	0.22	-0.07	0	0	0	0	0	0	0	0
8/3/2024 12:27	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 12:28	51902	COPA_T1	0	1	1	0	0	0	-0.73	-0.73	1	1	0	1200	1200	0
8/3/2024 12:28	51905	COPA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 12:28	67602	WARW_T2	14	55	41	0.44	0.38	-0.06	1.01	1.04	2	2	0	1500	1500	0
8/3/2024 12:28	51904	COPA_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/3/2024 12:29	67602	WARW_T2	14	55	41	0.44	0.38	-0.06	1.01	1.04	2	2	0	1500	1500	0
8/3/2024 12:30	26803	JAFR_T1	0	0	0	0	0	0	0.19	0.14	1	1	0	900	900	0
8/3/2024 12:31	52002	LING_T2	33	0	-33	0.44	0	-0.44	0	0	0	0	0	0	0	0
8/3/2024 12:31	52004	LING_T2	8	8	0	1.23	2.03	0.8	0.29	0.27	0	0	0	0	0	0
8/3/2024 12:32	25501	MADI_T1	16	18	2	0.55	0.4	-0.15	0.66	0.65	0	0	0	0	0	0
8/3/2024 12:32	52403	GRPA_T2	59	82	23	1.19	0.76	-0.43	0	0	0	0	0	0	0	0
8/3/2024 12:32	52402	GRPA_T2	9	27	18	0.83	0.57	-0.26	-0.69	-0.72	0	0	0	0	0	0
8/3/2024 12:32	52401	GRPA_T2	1	5	4	0.1	0.1	0	0	0	0	0	0	0	0	0
8/3/2024 12:33	52401	GRPA_T2	1	5	4	0.1	0.1	0	0	0	0	0	0	0	0	0
8/3/2024 12:33	52402	GRPA_T2	9	27	18	0.83	0.57	-0.26	-0.35	-0.36	0	0	0	0	0	0
8/3/2024 12:33	52403	GRPA_T2	59	82	23	1.19	0.76	-0.43	-0.54	-0.54	0	0	0	0	0	0
8/3/2024 12:33	58402	MORO_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/3/2024 12:33	58401	MORO_T1	3	1	-2	0.47	0.4	-0.07	-1.16	-1.18	2	2	0	1500	1500	0
8/3/2024 12:34	64101	REFR_T1	10	10	0	1.07	2.03	0.96	0.06	0.09	0	0	0	0	0	0
8/3/2024 12:36	58401	MORO_T1	3	1	-2	0.47	0.4	-0.07	-1.16	-1.18	2	2	0	1500	1500	0
8/3/2024 12:36	58402	MORO_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/3/2024 12:36	59101	WALK_T2	1	41	40	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 12:36	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 12:36	59102	WALK_T2	0	0	0	0	0	0	0.02	0.04	1	1	0	600	600	0
8/3/2024 12:36	42201	SHEN_T2	0	0	0	0	0	0	0.78	0.74	0	0	0	0	0	0
8/3/2024 12:37	65604	QVIL_T2	1	1	0	1.4	0	-1.4	0	0	0	0	0	0	0	0
8/3/2024 12:37	65603	QVIL_T2	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
8/3/2024 12:37	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 12:38	66703	STRA_T1	24	35	11	0.45	0.37	-0.08	-0.07	-0.09	0	0	0	0	0	0
8/3/2024 12:38	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 12:39	44301	BEAV_T2	3	1	-2	0.63	0.7	0.07	0	0	0	0	0	0	0	0
8/3/2024 12:39	44302	BEAV_T2	20	8	-12	0.28	0.15	-0.13	0.44	0.42	0	0	0	0	0	0
8/3/2024 12:40	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 12:40	67402	WAKE_T2	4	16	12	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
8/3/2024 12:40	67401	WAKE_T2	3	3	0	1.37	1.53	0.16	-0.46	-0.43	0	0	0	0	0	0
8/3/2024 12:41	51905	COPA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 12:41	61102	BERK_T5	0	0	0	0	0	0	0.02	0.07	2	2	0	1200	1200	0
8/3/2024 12:41	51902	COPA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 12:41	51904	COPA_T1	1	3	2	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/3/2024 12:41	51903	COPA_T1	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
8/3/2024 12:41	46501	LOHA_T1	5	3	-2	0.42	1	0.58	0	0	0	0	0	0	0	0
8/3/2024 12:41	46506	LOHA_T1	0	0	0	0	0	0	-1.66	-1.64	2	2	0	2100	2100	0
8/3/2024 12:42	61703	ELIZ_T1	1	5	4	0.1	0.17	0.07	0	0	0	0	0	0	0	0
8/3/2024 12:42	61102	BERK_T5	0	0	0	0	0	0	0.02	0.07	2	2	0	1200	1200	0
8/3/2024 12:42	41502	FAIR_T2	0	0	0	0	0	0	-2.24	-2.26	1	1	0	900	900	0
8/3/2024 12:42	46501	LOHA_T1	5	3	-2	0.42	1	0.58	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/3/2024 12:42	61701	ELIZ_T1	5	3	-2	0.46	0.27	-0.19	2.69	2.45	0	0	0	0	0	0
8/3/2024 12:42	46506	LOHA_T1	0	0	0	0	0	0	-3.33	-3.27	4	4	0	4200	4200	0
8/3/2024 12:43	67602	WARW_T2	32	75	43	0.38	0.41	0.03	1.04	1.17	2	2	0	1500	1500	0
8/3/2024 12:44	52002	LING_T2	33	0	-33	0.44	0	-0.44	0	0	0	0	0	0	0	0
8/3/2024 12:44	20601	GRWO_T2	426	515	89	1.43	1.51	0.08	1.11	1.14	0	0	0	0	0	0
8/3/2024 12:44	23401	HONE_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
8/3/2024 12:44	44302	BEAV_T2	20	8	-12	0.28	0.15	-0.13	0.44	0.42	0	0	0	0	0	0
8/3/2024 12:44	52004	LING_T2	8	8	0	1.23	2.03	0.8	0.27	0.29	0	0	0	0	0	0
8/3/2024 12:44	44301	BEAV_T2	3	1	-2	0.63	0.7	0.07	0	0	0	0	0	0	0	0
8/3/2024 12:45	61703	ELIZ_T1	4	7	3	0.15	0.2	0.05	0	0	0	0	0	0	0	0
8/3/2024 12:45	61701	ELIZ_T1	3	3	0	0.27	0.27	0	1.35	1.23	0	0	0	0	0	0
8/3/2024 12:46	52003	LING_T1	4	9	5	0.98	0.83	-0.15	0	0	0	0	0	0	0	0
8/3/2024 12:46	52001	LING_T1	0	1	1	0	0	0	-0.12	-0.09	0	0	0	0	0	0
8/3/2024 12:50	65001	NEFF_T2	0	0	0	0	0	0	-0.14	-0.16	1	1	0	1200	1200	0
8/3/2024 12:50	63202	MGTN_T2	0	0	0	0	0	0	0.12	0.16	1	1	0	900	900	0
8/3/2024 12:50	64101	REFR_T1	10	10	0	2.06	2.28	0.22	0.09	0.11	0	0	0	0	0	0
8/3/2024 12:50	63201	MGTN_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/3/2024 12:51	65901	SAKR_T2	3	7	4	1.97	1.4	-0.57	-0.33	-0.25	2	2	0	1500	1500	0
8/3/2024 12:51	65903	SAKR_T2	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
8/3/2024 12:51	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/3/2024 12:52	52401	GRPA_T2	4	2	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/3/2024 12:52	52403	GRPA_T2	82	51	-31	2.21	1.01	-1.2	-0.6	-0.59	0	0	0	0	0	0
8/3/2024 12:52	52402	GRPA_T2	26	8	-18	0.74	0.55	-0.19	0	0	0	0	0	0	0	0
8/3/2024 12:53	61701	ELIZ_T1	3	3	0	0.27	0.27	0	1.23	1.37	0	0	0	0	0	0
8/3/2024 12:53	64101	REFR_T1	10	10	0	2.06	2.28	0.22	0.11	0.12	0	0	0	0	0	0
8/3/2024 12:53	67103	SPRI_T1	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
8/3/2024 12:53	61703	ELIZ_T1	4	7	3	0.15	0.2	0.05	0	0	0	0	0	0	0	0
8/3/2024 12:54	64101	REFR_T1	10	10	0	2.06	2.28	0.22	0.23	0.23	0	0	0	0	0	0
8/3/2024 12:55	67801	WLAN_T1	0	10	10	0	0	0	-1.36	-1.3	0	0	0	0	0	0
8/3/2024 12:55	43101	SMIL_T2	8	31	23	0.26	0.58	0.32	0	0	0	0	0	0	0	0
8/3/2024 12:55	67803	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 12:55	43102	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/3/2024 12:55	43108	SMIL_T2	0	2	2	0	0.3	0.3	-0.9	-0.89	1	1	0	1200	1200	0
8/3/2024 12:55	67804	WLAN_T1	10	10	0	1.48	1.7	0.22	0	0	0	0	0	0	0	0
8/3/2024 12:56	57003	WHHI_T2	15	15	0	1.2	0.47	-0.73	0	0	0	0	0	0	0	0
8/3/2024 12:56	43102	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/3/2024 12:56	57004	WHHI_T2	1	1	0	2.6	3.1	0.5	-1.15	-1.17	0	0	0	0	0	0
8/3/2024 12:56	57001	WHHI_T2	1	3	2	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/3/2024 12:56	43101	SMIL_T2	8	31	23	0.26	0.58	0.32	0	0	0	0	0	0	0	0
8/3/2024 12:56	43108	SMIL_T2	0	2	2	0	0.3	0.3	-0.9	-0.89	1	1	0	1200	1200	0
8/3/2024 12:57	60101	COCA_T1	0	0	0	0	0	0	0.83	0.83	1	1	0	600	600	0
8/3/2024 12:59	51603	DUKE_T1	1	2	1	0.3	0	-0.3	0.33	0.34	0	0	0	0	0	0
8/3/2024 13:00	67605	WARW_T1	1	1	0	0.1	0.3	0.2	-0.87	-0.77	0	0	0	0	0	0
8/3/2024 13:01	40101	HUNT_T2	103	64	-39	0.55	0.39	-0.16	-0.74	-0.79	0	0	0	0	0	0
8/3/2024 13:01	67602	WARW_T2	73	72	-1	0.53	0.37	-0.16	1.17	1.2	2	2	0	1500	1500	0
8/3/2024 13:02	64302	LINC_T2	28	47	19	0.59	0.6	0.01	1.58	1.59	0	0	0	0	0	0
8/3/2024 13:02	65402	MARI_T1	2	4	2	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
8/3/2024 13:02	65401	MARI_T1	17	17	0	3.04	4.27	1.23	0	0	0	0	0	0	0	0
8/3/2024 13:02	64304	LINC_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 13:03	48302	ORWI_T2	12	23	11	0.84	0.51	-0.33	-0.59	-0.54	0	0	0	0	0	0
8/3/2024 13:04	53802	MBRG_T2	0	2	2	0	0	0	-0.25	-0.42	0	0	0	0	0	0
8/3/2024 13:05	65804	RTWN_T1	0	0	0	0	0	0	1.15	1.16	1	1	0	600	600	0
8/3/2024 13:09	43108	SMIL_T2	1	3	2	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
8/3/2024 13:09	66701	STRA_T1	0	1	1	0	0	0	-0.36	-0.39	1	1	0	600	600	0
8/3/2024 13:09	43102	SMIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/3/2024 13:09	66703	STRA_T1	28	56	28	0.43	0.44	0.01	0	0	0	0	0	0	0	0
8/3/2024 13:09	43101	SMIL_T2	12	55	43	0.58	0.88	0.3	-0.37	-0.34	0	0	0	0	0	0
8/3/2024 13:12	43101	SMIL_T2	12	55	43	0.58	0.88	0.3	-0.37	-0.34	0	0	0	0	0	0
8/3/2024 13:12	43102	SMIL_T2	1	0	-1	0.3	0	-0.3	-0.37	-0.35	1	1	0	600	600	0
8/3/2024 13:12	43108	SMIL_T2	1	3	2	0.4	0.25	-0.15	-0.89	-0.82	1	1	0	1200	1200	0
8/3/2024 13:13	51905	COPA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 13:13	51904	COPA_T1	2	2	0	0.55	1.45	0.9	0	0	0	0	0	0	0	0
8/3/2024 13:13	51903	COPA_T1	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
8/3/2024 13:13	51906	COPA_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 13:15	22805	HAUT_T2	17	88	71	0.38	0.68	0.3	-2.16	-2.07	1	1	0	1200	1200	0
8/3/2024 13:15	22803	HAUT_T2	52	65	13	1.35	1.19	-0.16	0	0	0	0	0	0	0	0
8/3/2024 13:17	63804	HEMP_T1	1	1	0	7	6.9	-0.1	0.23	0.24	0	0	0	0	0	0
8/3/2024 13:18	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 13:18	60501	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 13:18	52002	LING_T2	6	19	13	0.22	0.23	0.01	0	0	0	0	0	0	0	0
8/3/2024 13:18	60504	NMAN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/3/2024 13:18	52004	LING_T2	7	19	12	1.64	1.37	-0.27	0.32	0.33	0	0	0	0	0	0
8/3/2024 13:18	60502	NMAN_T2	1	3	2	0.1	0.33	0.23	-0.13	-0.12	0	0	0	0	0	0
8/3/2024 13:20	24204	PROV_T3	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
8/3/2024 13:20	42903	MIDD_T2	2	2	0	1.25	0.95	-0.3	0	0	0	0	0	0	0	0
8/3/2024 13:20	21705	SUBU_T1	1	1	0	7.2	7.4	0.2	0	0	0	0	0	0	0	0
8/3/2024 13:20	21701	SUBU_T1	5	26	21	2.58	2.06	-0.52	1.4	1.39	0	0	0	0	0	0
8/3/2024 13:20	24201	PROV_T3	3	8	5	2	1.44	-0.56	-0.43	-0.44	1	1	0	1200	1200	0
8/3/2024 13:20	42902	MIDD_T2	29	28	-1	1.42	0.88	-0.54	-0.34	-0.46	0	0	0	0	0	0
8/3/2024 13:21	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 13:21	65604	QVIL_T2	1	9	8	0.6	0.3	-0.3	1.01	1.03	0	0	0	0	0	0
8/3/2024 13:21	65601	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 13:22	42902	MIDD_T2	29	28	-1	1.42	0.88	-0.54	0	0	0	0	0	0	0	0
8/3/2024 13:22	42903	MIDD_T2	2	2	0	1.25	0.95	-0.3	0	0	0	0	0	0	0	0
8/3/2024 13:24	57203	ROSS_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
8/3/2024 13:25	46001	BERW_T1	4	6	2	0.73	0.2	-0.53	0.39	0.35	0	0	0	0	0	0
8/3/2024 13:25	46005	BERW_T1	0	1	1	0	7.8	7.8	0	0	0	0	0	0	0	0
8/3/2024 13:26	43108	SMIL_T2	2	4	2	0.25	0.7	0.45	-0.82	-0.8	1	1	0	1200	1200	0
8/3/2024 13:26	43103	SMIL_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 13:26	43101	SMIL_T2	31	66	35	0.88	1.43	0.55	0	0	0	0	0	0	0	0
8/3/2024 13:28	43108	SMIL_T2	2	4	2	0.25	0.7	0.45	-0.82	-0.8	1	1	0	1200	1200	0
8/3/2024 13:28	43101	SMIL_T2	31	66	35	0.88	1.43	0.55	0	0	0	0	0	0	0	0
8/3/2024 13:28	43103	SMIL_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 13:29	22901	HARW_T1	5	0	-5	0.56	0	-0.56	-1.33	-1.48	1	1	0	1200	1200	0
8/3/2024 13:29	22905	HARW_T1	12	22	10	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
8/3/2024 13:29	22903	HARW_T1	22	21	-1	2.15	0.98	-1.17	0	0	0	0	0	0	0	0
8/3/2024 13:33	51604	DUKE_T2	3	9	6	1.07	0.7	-0.37	-0.01	-0.01	0	0	0	0	0	0
8/3/2024 13:33	63203	MGTN_T1	0	1	1	0	0.1	0.1	-0.62	-0.56	2	2	0	1200	1200	0
8/3/2024 13:33	51602	DUKE_T2	2	4	2	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/3/2024 13:34	57106	SPHI_T2	3	3	0	0.23	0.63	0.4	0	0	0	0	0	0	0	0
8/3/2024 13:34	57101	SPHI_T2	2	6	4	0.15	0.87	0.72	-1.19	-1.26	0	0	0	0	0	0
8/3/2024 13:34	57201	ROSS_T1	0	0	0	0	0	0	2.62	2.49	0	0	0	0	0	0
8/3/2024 13:35	64801	MONE_T2	39	58	19	0.37	0.55	0.18	0	0	0	0	0	0	0	0
8/3/2024 13:35	42902	MIDD_T2	28	28	0	1.16	0.88	-0.28	-0.23	-0.2	0	0	0	0	0	0
8/3/2024 13:35	42903	MIDD_T2	2	2	0	0.95	0.8	-0.15	0	0	0	0	0	0	0	0
8/3/2024 13:35	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 13:35	64802	MONE_T2	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
8/3/2024 13:36	65601	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 13:36	65602	QVIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/3/2024 13:36	65604	QVIL_T2	5	9	4	0.36	0.23	-0.13	1.03	1	0	0	0	0	0	0
8/3/2024 13:36	65603	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 13:37	57702	PAXT_T1	4	10	6	0.3	0.47	0.17	-1.64	-1.7	0	0	0	0	0	0
8/3/2024 13:37	51602	DUKE_T2	2	4	2	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/3/2024 13:37	57205	ROSS_T1	0	0	0	0	0	0	-1.23	-1.24	1	1	0	900	900	0
8/3/2024 13:37	51604	DUKE_T2	3	9	6	1.07	0.7	-0.37	-0.01	-0.01	0	0	0	0	0	0
8/3/2024 13:39	60502	NMAN_T2	3	15	12	0.33	0.17	-0.16	-0.09	-0.62	0	0	0	0	0	0
8/3/2024 13:39	60504	NMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/3/2024 13:41	27503	WEIS_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 13:41	65205	PRIN_T1	2	2	0	0.5	0.85	0.35	0	0	0	0	0	0	0	0
8/3/2024 13:41	27502	WEIS_T2	635	1031	396	1.13	1.12	-0.01	0.16	0.14	0	0	0	0	0	0
8/3/2024 13:41	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 13:42	51603	DUKE_T1	0	0	0	0	0	0	-0.42	-0.48	0	0	0	0	0	0
8/3/2024 13:42	67602	WARW_T2	55	84	29	0.38	0.39	0.01	1.29	1.29	2	2	0	1500	1500	0
8/3/2024 13:43	58803	COCO_T1	161	149	-12	0.62	0.42	-0.2	-0.44	-0.36	1	1	0	600	600	0
8/3/2024 13:43	64204	KINZ_T1	2	3	1	0.9	1.5	0.6	0	0	0	0	0	0	0	0
8/3/2024 13:43	61703	ELIZ_T1	23	89	66	0.39	0.45	0.06	-2.12	-2.07	2	2	0	2100	2100	0
8/3/2024 13:43	64202	KINZ_T1	3	7	4	0.37	0	-0.37	0	0	0	0	0	0	0	0
8/3/2024 13:43	64203	KINZ_T1	1	1	0	0.8	0.6	-0.2	-1.07	-1.15	3	3	0	2100	2100	0
8/3/2024 13:43	61701	ELIZ_T1	4	7	3	0.48	0.3	-0.18	1.21	1.29	0	0	0	0	0	0
8/3/2024 13:44	61701	ELIZ_T1	4	7	3	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
8/3/2024 13:44	61703	ELIZ_T1	23	89	66	0.39	0.45	0.06	-4.24	-4.14	4	4	0	4200	4200	0
8/3/2024 13:45	61701	ELIZ_T1	4	8	4	0.3	0.3	0	1.21	1.29	0	0	0	0	0	0
8/3/2024 13:45	61703	ELIZ_T1	22	92	70	0.45	0.24	-0.21	-2.12	-2.07	2	2	0	2100	2100	0
8/3/2024 13:46	67604	WARW_T1	0	0	0	0	0	0	0.53	0.58	0	0	0	0	0	0
8/3/2024 13:46	61704	ELIZ_T2	8	5	-3	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
8/3/2024 13:46	61702	ELIZ_T2	49	41	-8	0.76	0.29	-0.47	-1	-1.04	2	2	0	1500	1500	0
8/3/2024 13:46	67605	WARW_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/3/2024 13:47	65503	MOJO_T2	2	2	0	0.7	0.45	-0.25	0.18	0.16	1	1	0	900	900	0
8/3/2024 13:48	47101	MARL_T1	98	141	43	1.1	0.88	-0.22	-0.65	-0.63	1	1	0	600	600	0
8/3/2024 13:48	47104	MARL_T1	15	15	0	0.69	1.27	0.58	0	0	0	0	0	0	0	0
8/3/2024 13:49	27605	PIRI_T2	190	61	-129	0.92	0.97	0.05	0.68	0.46	1	1	0	900	900	0
8/3/2024 13:49	27603	PIRI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 13:50	42903	MIDD_T2	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
8/3/2024 13:50	42902	MIDD_T2	28	28	0	0.88	0.91	0.03	-0.2	-0.2	0	0	0	0	0	0
8/3/2024 13:50	42901	MIDD_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/3/2024 13:50	64101	REFR_T1	12	15	3	3.1	1.98	-1.12	0.24	0.37	0	0	0	0	0	0
8/3/2024 13:51	64101	REFR_T1	12	15	3	3.1	1.98	-1.12	0.18	0.18	0	0	0	0	0	0
8/3/2024 13:52	64101	REFR_T1	12	15	3	3.1	1.98	-1.12	0.37	0.36	0	0	0	0	0	0
8/3/2024 13:53	52002	LING_T2	7	65	58	0.26	0.35	0.09	0	0	0	0	0	0	0	0
8/3/2024 13:53	52004	LING_T2	11	204	193	1.3	3.03	1.73	-0.02	0.12	0	0	0	0	0	0
8/3/2024 13:53	64101	REFR_T1	12	15	3	3.1	1.98	-1.12	0.18	0.18	0	0	0	0	0	0
8/3/2024 13:55	42701	AUGU_T1	38	59	21	0.44	0.6	0.16	0	0	2	2	0	1800	1800	0
8/3/2024 13:59	61703	ELIZ_T1	22	92	70	0.45	0.24	-0.21	-2.07	-2.29	2	2	0	2100	2100	0
8/3/2024 13:59	61701	ELIZ_T1	4	8	4	0.3	0.3	0	0	0	0	0	0	0	0	0
8/3/2024 14:00	61701	ELIZ_T1	7	5	-2	0.39	0.3	-0.09	0	0	0	0	0	0	0	0
8/3/2024 14:00	61703	ELIZ_T1	89	41	-48	0.49	0.23	-0.26	-6.22	-6.86	6	6	0	6300	6300	0
8/3/2024 14:01	45601	WOOL_T1	0	0	0	0	0	0	-0.8	-0.81	1	1	0	1200	1200	0
8/3/2024 14:01	45602	WOOL_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/3/2024 14:05	66701	STRA_T1	4	1	-3	0.33	0.4	0.07	0	0	0	0	0	0	0	0
8/3/2024 14:05	66703	STRA_T1	86	74	-12	0.59	0.38	-0.21	0.04	0.1	0	0	0	0	0	0
8/3/2024 14:06	43304	WATS_T2	11	8	-3	0.44	0.53	0.09	0	0	0	0	0	0	0	0
8/3/2024 14:06	43301	WATS_T2	2	0	-2	0.2	0	-0.2	-0.11	-0.1	1	1	0	900	900	0
8/3/2024 14:06	64101	REFR_T1	13	15	2	2.48	1.93	-0.55	0.18	0.22	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/3/2024 14:07	66703	STRA_T1	86	74	-12	0.59	0.38	-0.21	0.1	-0.46	0	0	0	0	0	0
8/3/2024 14:07	66701	STRA_T1	4	1	-3	0.33	0.4	0.07	0	0	0	0	0	0	0	0
8/3/2024 14:07	15604	NSTR_T1	0	9	9	0	0	0	-0.38	-0.37	0	0	0	0	0	0
8/3/2024 14:08	64101	REFR_T1	13	15	2	2.48	1.93	-0.55	0.36	0.45	0	0	0	0	0	0
8/3/2024 14:08	15604	NSTR_T1	0	9	9	0	0	0	-0.38	-0.37	0	0	0	0	0	0
8/3/2024 14:11	66701	STRA_T1	4	1	-3	0.33	0.4	0.07	0	0	0	0	0	0	0	0
8/3/2024 14:11	45302	WBER_T2	8	8	0	0.28	0.4	0.12	1.53	1.56	0	0	0	0	0	0
8/3/2024 14:11	66703	STRA_T1	86	74	-12	0.59	0.38	-0.21	0.1	-0.46	0	0	0	0	0	0
8/3/2024 14:15	45302	WBER_T2	3	7	4	0.37	0.3	-0.07	1.53	1.56	0	0	0	0	0	0
8/3/2024 14:16	26803	JAFR_T1	0	0	0	0	0	0	0.18	0.18	1	1	0	900	900	0
8/3/2024 14:19	22701	MINO_T1	0	0	0	0	0	0	-0.32	-0.33	1	1	0	600	600	0
8/3/2024 14:29	47201	FAXO_T2	2	9	7	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/3/2024 14:29	47203	FAXO_T2	1	1	0	0.8	0.7	-0.1	-1.48	-1.49	1	1	0	1200	1200	0
8/3/2024 14:29	67605	WARW_T1	1	1	0	0.3	0.2	-0.1	-0.98	-0.92	0	0	0	0	0	0
8/3/2024 14:31	61702	ELIZ_T2	24	28	4	0.56	0.29	-0.27	-0.99	-0.99	2	2	0	1500	1500	0
8/3/2024 14:31	61704	ELIZ_T2	1	3	2	0.2	0.6	0.4	0	0	0	0	0	0	0	0
8/3/2024 14:33	52402	GRPA_T2	3	7	4	0.93	0.74	-0.19	-0.37	-0.48	0	0	0	0	0	0
8/3/2024 14:33	52403	GRPA_T2	29	62	33	0.61	0.79	0.18	0	0	0	0	0	0	0	0
8/3/2024 14:33	43202	MVIL_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
8/3/2024 14:35	67602	WARW_T2	74	101	27	0.52	0.53	0.01	1.21	1.22	2	2	0	1500	1500	0
8/3/2024 14:35	67601	WARW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 14:35	63403	HONY_T2	0	0	0	0	0	0	-1.29	-1.28	0	0	0	0	0	0
8/3/2024 14:35	63401	HONY_T1	2	2	0	0.9	0.7	-0.2	0.64	1.01	0	0	0	0	0	0
8/3/2024 14:36	58201	NEWV_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 14:36	43202	MVIL_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
8/3/2024 14:36	58202	NEWV_T1	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
8/3/2024 14:37	59202	THOM_T1	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
8/3/2024 14:39	64101	REFR_T1	13	15	2	2.55	2.21	-0.34	0.2	0.22	0	0	0	0	0	0
8/3/2024 14:40	64101	REFR_T1	13	15	2	2.55	2.21	-0.34	0.2	0.22	0	0	0	0	0	0
8/3/2024 14:41	44302	BEAV_T2	2	28	26	0.2	0.2	0	0.44	0.45	0	0	0	0	0	0
8/3/2024 14:41	44301	BEAV_T2	3	5	2	0.5	0.18	-0.32	0	0	0	0	0	0	0	0
8/3/2024 14:41	59202	THOM_T1	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
8/3/2024 14:43	61703	ELIZ_T1	30	35	5	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
8/3/2024 14:43	61801	EELI_T2	12	21	9	1.17	1.73	0.56	-0.02	-0.05	1	1	0	600	600	0
8/3/2024 14:43	22002	BOHE_T1	0	0	0	0	0	0	0.77	0	0	0	0	0	0	0
8/3/2024 14:43	61701	ELIZ_T1	4	5	1	0.43	0.33	-0.1	1.31	1.18	0	0	0	0	0	0
8/3/2024 14:43	61802	EELI_T2	10	10	0	1.76	1.79	0.03	0	0	0	0	0	0	0	0
8/3/2024 14:44	59202	THOM_T1	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
8/3/2024 14:44	65401	MARI_T1	17	17	0	6.7	6.49	-0.21	0	0	0	0	0	0	0	0
8/3/2024 14:44	61801	EELI_T2	12	21	9	1.17	1.73	0.56	-0.02	-0.05	1	1	0	600	600	0
8/3/2024 14:44	61802	EELI_T2	10	10	0	1.76	1.79	0.03	0	0	0	0	0	0	0	0
8/3/2024 14:44	65402	MARI_T1	10	10	0	1.05	0.56	-0.49	0	0	0	0	0	0	0	0
8/3/2024 14:46	46506	LOHA_T1	1	1	0	0.1	0.2	0.1	-1.65	-1.7	2	2	0	2100	2100	0
8/3/2024 14:46	46501	LOHA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/3/2024 14:46	46504	LOHA_T1	2	1	-1	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
8/3/2024 14:48	65604	QVIL_T2	3	9	6	0.23	0	-0.23	1.05	1.04	0	0	0	0	0	0
8/3/2024 14:48	65602	QVIL_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/3/2024 14:48	65601	QVIL_T2	4	1	-3	0.18	0	-0.18	0	0	0	0	0	0	0	0
8/3/2024 14:49	64101	REFR_T1	15	18	3	2.08	2.51	0.43	0.2	0.22	0	0	0	0	0	0
8/3/2024 14:50	64101	REFR_T1	15	18	3	2.08	2.51	0.43	0.4	0.44	0	0	0	0	0	0
8/3/2024 14:51	64203	KINZ_T1	1	1	0	0.5	0.1	-0.4	1.23	-1.18	3	3	0	2100	2100	0
8/3/2024 14:51	51202	MTON_T2	0	2	2	0	0.15	0.15	-0.68	-0.68	1	1	0	1200	1200	0
8/3/2024 14:51	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 14:52	51202	MTON_T2	0	2	2	0	0.15	0.15	-0.68	-0.7	1	1	0	1200	1200	0
8/3/2024 14:52	67303	WYOM_T2	0	0	0	0	0	0	0.03	0.08	0	0	0	0	0	0
8/3/2024 14:53	61301	EARL_T1	0	0	0	0	0	0	-0.83	-0.82	2	2	0	1800	1800	0
8/3/2024 14:53	59102	WALK_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/3/2024 14:53	59101	WALK_T2	1	0	-1	0.1	0	-0.1	0.08	0.08	0	0	0	0	0	0
8/3/2024 14:53	61103	BERK_T5	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
8/3/2024 14:53	61101	BERK_T5	1	9	8	9.8	9.9	0.1	0	0	0	0	0	0	0	0
8/3/2024 14:53	61303	EARL_T1	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/3/2024 14:54	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 14:54	64203	KINZ_T1	1	1	0	0.5	0.1	-0.4	-1.23	-1.18	3	3	0	2100	2100	0
8/3/2024 14:54	61303	EARL_T1	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/3/2024 14:54	61301	EARL_T1	0	0	0	0	0	0	-0.83	-0.82	2	2	0	1800	1800	0
8/3/2024 14:55	67303	WYOM_T2	0	0	0	0	0	0	0.06	0.16	0	0	0	0	0	0
8/3/2024 14:55	61103	BERK_T5	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
8/3/2024 14:55	61101	BERK_T5	1	9	8	9.8	9.9	0.1	0	0	0	0	0	0	0	0
8/3/2024 14:56	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 14:56	66903	SHIL_T2	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
8/3/2024 14:56	61301	EARL_T1	0	0	0	0	0	0	-0.83	-0.82	2	2	0	1800	1800	0
8/3/2024 14:56	29402	BELT_T1	52	24	-28	0.59	0.69	0.1	0	0	0	0	0	0	0	0
8/3/2024 14:56	61303	EARL_T1	2	1	-1	0.4	0.3	-0.1	0.47	0.45	0	0	0	0	0	0
8/3/2024 14:56	67303	WYOM_T2	0	0	0	0	0	0	0.06	0.16	0	0	0	0	0	0
8/3/2024 14:56	66901	SHIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/3/2024 14:56	61302	EARL_T1	0	0	0	0	0	0	0.17	0.29	3	3	0	2700	2700	0
8/3/2024 14:57	58706	ROSE_T2	1	1	0	1.8	1.2	-0.6	0	0	0	0	0	0	0	0
8/3/2024 14:57	58705	ROSE_T2	1	2	1	1.4	0.75	-0.65	0	0	0	0	0	0	0	0
8/3/2024 14:57	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 14:57	62102	ELAN_T1	0	0	0	0	0	0	-0.13	-0.05	0	0	0	0	0	0
8/3/2024 14:57	64203	KINZ_T1	1	1	0	0.5	0.1	-0.4	-1.23	-1.18	3	3	0	2100	2100	0
8/3/2024 14:57	67303	WYOM_T2	0	0	0	0	0	0	0.06	0.16	0	0	0	0	0	0
8/3/2024 14:57	29402	BELT_T1	52	24	-28	0.59	0.69	0.1	0	0	0	0	0	0	0	0
8/3/2024 14:57	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 14:57	61103	BERK_T5	0	0	0	0	0	0	0.44	0.49	0	0	0	0	0	0
8/3/2024 14:57	58701	ROSE_T2	0	0	0	0	0	0	-1.51	-1.59	1	1	0	600	600	0
8/3/2024 14:57	61101	BERK_T5	1	9	8	9.8	9.9	0.1	0	0	0	0	0	0	0	0
8/3/2024 14:58	61103	BERK_T5	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
8/3/2024 14:58	61303	EARL_T1	2	1	-1	0.4	0.3	-0.1	0.47	0.45	0	0	0	0	0	0
8/3/2024 14:58	61101	BERK_T5	1	9	8	9.8	9.9	0.1	0	0	0	0	0	0	0	0
8/3/2024 14:58	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/3/2024 14:58	29402	BELT_T1	52	24	-28	0.59	0.69	0.1	0	0	0	0	0	0	0	0
8/3/2024 14:58	51604	DUKE_T2	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/3/2024 14:58	62102	ELAN_T1	0	0	0	0	0	0	-0.13	-0.05	0	0	0	0	0	0
8/3/2024 14:59	51002	NHAR_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/3/2024 14:59	60104	COCA_T2	3	3	0	3.4	2.1	-1.3	0	0	0	0	0	0	0	0
8/3/2024 14:59	51004	NHAR_T1	1	1	0	6.7	6.7	0	-2.04	-0.59	0	0	0	0	0	0
8/3/2024 14:59	60103	COCA_T2	0	0	0	0	0	0	-1.21	-1.21	3	3	0	3300	3300	0
8/3/2024 15:00	51604	DUKE_T2	0	1	1	0	0.5	0.5	-0.01	-0.01	0	0	0	0	0	0
8/3/2024 15:00	60103	COCA_T2	0	0	0	0	0	0	-1.21	-1.21	3	3	0	3300	3300	0
8/3/2024 15:00	60104	COCA_T2	3	3	0	3.07	0.1	-2.97	0	0	0	0	0	0	0	0
8/3/2024 15:01	50506	MECH_T1	0	0	0	0	0	0	-0.23	-0.21	1	1	0	900	900	0
8/3/2024 15:01	62102	ELAN_T1	0	0	0	0	0	0	-0.13	-0.05	0	0	0	0	0	0
8/3/2024 15:01	50502	MECH_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/3/2024 15:02	40602	PIGR_T1	2	1	-1	0.75	0.7	-0.05	-0.88	-0.98	1	1	0	600	600	0
8/3/2024 15:02	40603	PIGR_T1	10	1	-9	0.43	0	-0.43	0	0	0	0	0	0	0	0
8/3/2024 15:03	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	-0.22	-0.26	1	1	0	600	600	0
8/3/2024 15:03	50506	MECH_T1	0	0	0	0	0	0	-0.23	-0.21	1	1	0	900	900	0
8/3/2024 15:03	50502	MECH_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/3/2024 15:03	65001	NEFF_T2	0	0	0	0	0	0	-0.11	-0.05	1	1	0	1200	1200	0
8/3/2024 15:03	60104	COCA_T2	3	3	0	3.07	0.1	-2.97	0	0	0	0	0	0	0	0
8/3/2024 15:03	60103	COCA_T2	0	0	0	0	0	0	-1.21	-1.21	3	3	0	3300	3300	0
8/3/2024 15:03	55002	NEWP_T1	1	1	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
8/3/2024 15:04	20402	ASHF_T2	26	39	13	0.37	0.28	-0.09	0	0	0	0	0	0	0	0
8/3/2024 15:04	58101	NEKI_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
8/3/2024 15:04	20403	ASHF_T2	95	83	-12	0.57	0.38	-0.19	0.34	0.31	0	0	0	0	0	0
8/3/2024 15:04	58102	NEKI_T1	1	1	0	0.8	0.8	0	-1.13	-1.11	1	1	0	1200	1200	0
8/3/2024 15:04	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 15:04	20401	ASHF_T2	83	41	-42	0.66	0.51	-0.15	0	0	0	0	0	0	0	0
8/3/2024 15:05	57106	SPHI_T2	3	3	0	0.77	0.87	0.1	0	0	0	0	0	0	0	0
8/3/2024 15:05	20403	ASHF_T2	95	83	-12	0.57	0.38	-0.19	0.34	0.31	0	0	0	0	0	0
8/3/2024 15:05	57002	WHHI_T2	0	0	0	0	0	0	-1.51	-1.51	1	1	0	1200	1200	0
8/3/2024 15:05	20401	ASHF_T2	83	41	-42	0.66	0.51	-0.15	0	0	0	0	0	0	0	0
8/3/2024 15:05	57003	WHHI_T2	14	0	-14	0.44	0	-0.44	0	0	0	0	0	0	0	0
8/3/2024 15:05	57104	SPHI_T2	0	1	1	0	0	0	-2.13	-2.16	1	1	0	900	900	0
8/3/2024 15:05	20402	ASHF_T2	26	39	13	0.37	0.28	-0.09	0	0	0	0	0	0	0	0
8/3/2024 15:05	57101	SPHI_T2	6	6	0	0.63	0.83	0.2	0	0	0	0	0	0	0	0
8/3/2024 15:06	65802	RTWN_T2	0	0	0	0	0	0	-0.19	-0.18	0	0	0	0	0	0
8/3/2024 15:06	67103	SPRI_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
8/3/2024 15:06	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 15:07	66902	SHIL_T2	0	0	0	0	0	0	-1.35	-1.29	0	0	0	0	0	0
8/3/2024 15:07	66901	SHIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/3/2024 15:08	65604	QVIL_T2	9	0	-9	0.27	0	-0.27	0	0	0	0	0	0	0	0
8/3/2024 15:08	65603	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 15:08	57101	SPHI_T2	6	6	0	0.63	0.83	0.2	0	0	0	0	0	0	0	0
8/3/2024 15:08	65601	QVIL_T2	1	1	0	0.1	0	-0.1	0.5	0.42	1	1	0	900	900	0
8/3/2024 15:08	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	-0.26	-0.29	1	1	0	600	600	0
8/3/2024 15:08	65602	QVIL_T2	1	3	2	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
8/3/2024 15:08	57106	SPHI_T2	3	3	0	0.77	0.87	0.1	0	0	0	0	0	0	0	0
8/3/2024 15:08	67103	SPRI_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
8/3/2024 15:08	55002	NEWP_T1	1	1	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
8/3/2024 15:08	57104	SPHI_T2	0	1	1	0	0	0	-2.16	-2.19	1	1	0	900	900	0
8/3/2024 15:09	67103	SPRI_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
8/3/2024 15:09	66901	SHIL_T2	1	0	-1	0.3	0	-0.3	-0.48	-0.47	1	1	0	1200	1200	0
8/3/2024 15:09	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/3/2024 15:10	61703	ELIZ_T1	23	6	-17	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/3/2024 15:10	61701	ELIZ_T1	3	3	0	0.33	1.2	0.87	1.17	1.02	0	0	0	0	0	0
8/3/2024 15:10	49804	UNIV_T1	0	0	0	0	0	0	1.33	1.37	0	0	0	0	0	0
8/3/2024 15:10	49803	UNIV_T1	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
8/3/2024 15:11	60201	ATGL_T2	5	8	3	0.6	0.5	-0.1	0.42	0.55	2	2	0	900	900	0
8/3/2024 15:11	44302	BEAV_T2	28	77	49	0.2	0.28	0.08	0.45	0.44	0	0	0	0	0	0
8/3/2024 15:11	44301	BEAV_T2	5	6	1	0.18	0.32	0.14	0	0	0	0	0	0	0	0
8/3/2024 15:11	62102	ELAN_T1	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
8/3/2024 15:12	61303	EARL_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/3/2024 15:12	61301	EARL_T1	0	0	0	0	0	0	-0.82	-0.84	2	2	0	1800	1800	0
8/3/2024 15:12	51603	DUKE_T1	0	0	0	0	0	0	0.12	0.06	0	0	0	0	0	0
8/3/2024 15:13	62102	ELAN_T1	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
8/3/2024 15:13	51603	DUKE_T1	0	0	0	0	0	0	0.12	0.06	0	0	0	0	0	0
8/3/2024 15:13	60201	ATGL_T2	5	8	3	0.6	0.5	-0.1	0.84	1.1	4	4	0	1800	1800	0
8/3/2024 15:14	53903	HALI_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
8/3/2024 15:14	53902	HALI_T2	1	1	0	3.9	3.9	0	0	0	0	0	0	0	0	0
8/3/2024 15:14	53901	HALI_T2	0	0	0	0	0	0	-0.79	-0.79	0	0	0	0	0	0
8/3/2024 15:16	53802	MBRG_T2	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/3/2024 15:17	63602	LETO_T1	2	0	-2	0.3	0	-0.3	0.14	-0.73	1	1	0	600	600	0
8/3/2024 15:17	53802	MBRG_T2	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
8/3/2024 15:17	63601	LETO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 15:18	64802	MONE_T2	3	2	-1	0.27	0.35	0.08	-1.48	-1.43	0	0	0	0	0	0
8/3/2024 15:18	63602	LETO_T1	2	0	-2	0.3	0	-0.3	0.14	-0.73	1	1	0	600	600	0
8/3/2024 15:18	63601	LETO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 15:18	64801	MONE_T2	54	82	28	0.61	0.92	0.31	0	0	0	0	0	0	0	0
8/3/2024 15:20	56504	ROCK_T2	0	20	20	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 15:20	56501	ROCK_T2	0	1	1	0	0.3	0.3	-1.69	-1.71	0	0	0	0	0	0
8/3/2024 15:21	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 15:21	56501	ROCK_T2	0	1	1	0	0.3	0.3	-1.69	-1.71	0	0	0	0	0	0
8/3/2024 15:21	29402	BELT_T1	20	26	6	0.69	0.63	-0.06	0	0	0	0	0	0	0	0
8/3/2024 15:21	64101	REFR_T1	17	19	2	2.56	2.56	0	0.27	0.25	0	0	0	0	0	0
8/3/2024 15:21	56504	ROCK_T2	0	20	20	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 15:22	64101	REFR_T1	17	19	2	2.56	2.56	0	0.27	0.25	0	0	0	0	0	0
8/3/2024 15:23	56501	ROCK_T2	0	1	1	0	0.3	0.3	-3.42	-3.39	0	0	0	0	0	0
8/3/2024 15:23	56504	ROCK_T2	0	20	20	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 15:23	66103	REAM_T2	0	0	0	0	0	0	0.38	0.43	1	1	0	1200	1200	0
8/3/2024 15:26	57505	LAWN_T3	0	0	0	0	0	0	0.37	0.32	0	0	0	0	0	0
8/3/2024 15:26	57002	WHHI_T2	0	0	0	0	0	0	-1.55	-1.55	1	1	0	1200	1200	0
8/3/2024 15:27	47203	FAXO_T2	0	4	4	0	0.1	0.1	-0.17	-1.86	1	1	0	1200	1200	0
8/3/2024 15:27	64101	REFR_T1	17	19	2	2.56	2.56	0	0.27	0.25	0	0	0	0	0	0
8/3/2024 15:32	41801	GOCI_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/3/2024 15:32	51402	LYKE_T1	0	0	0	0	0	0	-1.91	-1.92	2	2	0	1200	1200	0
8/3/2024 15:35	47802	MOCA_T2	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
8/3/2024 15:36	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 15:36	52403	GRPA_T2	9	7	-2	0.93	0.86	-0.07	-0.45	-0.47	0	0	0	0	0	0
8/3/2024 15:36	52402	GRPA_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/3/2024 15:40	42701	AUGU_T1	56	35	-21	0.75	0.34	-0.41	0	0	2	2	0	1800	1800	0
8/3/2024 15:42	42701	AUGU_T1	56	35	-21	0.75	0.34	-0.41	0	0	2	2	0	1800	1800	0
8/3/2024 15:43	53903	HALI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 15:43	53902	HALI_T2	1	1	0	3.8	3.9	0.1	-0.61	-0.62	0	0	0	0	0	0
8/3/2024 15:44	61505	EPET_T1	0	0	0	0	0	0	0.77	0.76	0	0	0	0	0	0
8/3/2024 15:45	53902	HALI_T2	1	1	0	3.9	3.8	-0.1	-1.22	-1.23	0	0	0	0	0	0
8/3/2024 15:46	53802	MBRG_T2	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
8/3/2024 15:49	51602	DUKE_T2	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
8/3/2024 15:53	67504	WEWI_T1	0	27	27	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 15:53	46302	ROHR_T1	6	6	0	0.52	0.92	0.4	0.45	0.45	0	0	0	0	0	0
8/3/2024 15:53	67505	WEWI_T1	1	1	0	0.7	0	-0.7	0.51	0.49	1	1	0	900	900	0
8/3/2024 15:53	67501	WEWI_T1	8	11	3	0.78	1.11	0.33	0	0	0	0	0	0	0	0
8/3/2024 15:57	61701	ELIZ_T1	1	1	0	2.1	2.2	0.1	1.1	1.01	0	0	0	0	0	0
8/3/2024 15:59	61301	EARL_T1	0	0	0	0	0	0	-0.83	-0.82	2	2	0	1800	1800	0
8/3/2024 15:59	45802	HEGI_T2	37	47	10	0.76	1.15	0.39	0.09	0.03	0	0	0	0	0	0
8/3/2024 16:00	61304	EARL_T1	0	0	0	0	0	0	-0.07	-0.08	1	1	0	600	600	0
8/3/2024 16:00	61801	EELI_T2	6	2	-4	0.32	0.3	-0.02	-0.14	-0.17	1	1	0	600	600	0
8/3/2024 16:00	61802	EELI_T2	5	4	-1	0.32	0.3	-0.02	0	0	0	0	0	0	0	0
8/3/2024 16:01	46504	LOHA_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
8/3/2024 16:01	46506	LOHA_T1	1	3	2	0.1	0.23	0.13	-1.71	-1.73	2	2	0	2100	2100	0
8/3/2024 16:01	46501	LOHA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/3/2024 16:02	52402	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/3/2024 16:02	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 16:02	52403	GRPA_T2	5	19	14	0.86	0.74	-0.12	-0.48	-0.49	0	0	0	0	0	0
8/3/2024 16:03	51101	CARL_T1	1	1	0	7.8	7.6	-0.2	0	0	0	0	0	0	0	0
8/3/2024 16:03	51109	CARL_T1	0	0	0	0	0	0	-1.69	-1.63	0	0	0	0	0	0
8/3/2024 16:03	27302	PARR_T1	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
8/3/2024 16:03	45802	HEGI_T2	43	48	5	0.92	1.74	0.82	0.09	0.03	0	0	0	0	0	0
8/3/2024 16:04	51702	OBER_T1	2	2	0	2.1	2.1	0	2.73	2.7	2	2	0	1200	1200	0
8/3/2024 16:05	66701	STRA_T1	7	7	0	0.56	0	-0.56	0	0	0	0	0	0	0	0
8/3/2024 16:05	66703	STRA_T1	41	47	6	0.53	0.36	-0.17	0	0	0	0	0	0	0	0
8/3/2024 16:05	51101	CARL_T1	1	1	0	7.8	7.6	-0.2	0	0	0	0	0	0	0	0
8/3/2024 16:05	51109	CARL_T1	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
8/3/2024 16:05	57501	LAWN_T3	0	1	1	0	0.2	0.2	-1.06	-1.08	0	0	0	0	0	0
8/3/2024 16:05	57502	LAWN_T3	0	0	0	0	0	0	-1.21	-1.15	0	0	0	0	0	0
8/3/2024 16:05	57602	RUTH_T2	0	0	0	0	0	0	-0.93	-0.99	0	0	0	0	0	0
8/3/2024 16:05	48302	ORWI_T2	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
8/3/2024 16:05	66702	STRA_T1	0	0	0	0	0	0	-2.15	-2.14	3	3	0	2700	2700	0
8/3/2024 16:06	57602	RUTH_T2	0	0	0	0	0	0	-0.93	-0.99	0	0	0	0	0	0
8/3/2024 16:06	57502	LAWN_T3	0	0	0	0	0	0	-1.21	-1.15	0	0	0	0	0	0
8/3/2024 16:06	51702	OBER_T1	2	2	0	2.1	2.1	0	-4.1	-4.05	3	3	0	1800	1800	0
8/3/2024 16:06	27302	PARR_T1	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
8/3/2024 16:06	57501	LAWN_T3	0	1	1	0	0.2	0.2	-2.11	-2.16	0	0	0	0	0	0
8/3/2024 16:06	57601	RUTH_T2	0	0	0	0	0	0	-1.88	-1.82	1	1	0	900	900	0
8/3/2024 16:07	57505	LAWN_T3	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
8/3/2024 16:07	57501	LAWN_T3	0	1	1	0	0.2	0.2	-1.08	-1.11	0	0	0	0	0	0
8/3/2024 16:07	57502	LAWN_T3	0	0	0	0	0	0	-1.15	-1.22	0	0	0	0	0	0
8/3/2024 16:07	42201	SHEN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 16:07	66701	STRA_T1	7	7	0	0.56	0	-0.56	0	0	0	0	0	0	0	0
8/3/2024 16:07	57602	RUTH_T2	0	0	0	0	0	0	-0.99	-1.02	0	0	0	0	0	0
8/3/2024 16:07	66703	STRA_T1	41	47	6	0.53	0.36	-0.17	-0.76	-0.74	0	0	0	0	0	0
8/3/2024 16:07	51702	OBER_T1	2	2	0	2.1	2.1	0	0	0	0	0	0	0	0	0
8/3/2024 16:07	51704	OBER_T1	0	0	0	0	0	0	-2.5	-1.19	1	1	0	1200	1200	0
8/3/2024 16:07	27604	PIRI_T1	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
8/3/2024 16:08	57601	RUTH_T2	0	0	0	0	0	0	-1.82	-1.89	1	1	0	900	900	0
8/3/2024 16:08	57501	LAWN_T3	0	1	1	0	0.2	0.2	-1.08	-1.11	0	0	0	0	0	0
8/3/2024 16:08	57602	RUTH_T2	0	0	0	0	0	0	-1.98	-2.04	0	0	0	0	0	0
8/3/2024 16:08	57505	LAWN_T3	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
8/3/2024 16:08	51702	OBER_T1	2	2	0	2.1	2.1	0	-1.35	-1.39	1	1	0	600	600	0
8/3/2024 16:08	57302	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 16:08	51304	WIND_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
8/3/2024 16:08	57303	MOAL_T2	1	1	0	7.8	7.6	-0.2	0	0	0	0	0	0	0	0
8/3/2024 16:08	57306	MOAL_T2	0	0	0	0	0	0	-2.62	-2.65	1	1	0	1200	1200	0
8/3/2024 16:09	42201	SHEN_T2	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
8/3/2024 16:09	57505	LAWN_T3	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
8/3/2024 16:09	57501	LAWN_T3	0	1	1	0	0.2	0.2	-1.08	-1.11	0	0	0	0	0	0
8/3/2024 16:09	57601	RUTH_T2	0	0	0	0	0	0	-1.82	-1.89	1	1	0	900	900	0
8/3/2024 16:09	57502	LAWN_T3	0	0	0	0	0	0	-1.15	-1.22	0	0	0	0	0	0
8/3/2024 16:10	67602	WARW_T2	7	213	206	0.31	0	-0.31	0	0.2	1	0	-1	1200	0	-1200
8/3/2024 16:10	57501	LAWN_T3	0	1	1	0	0.2	0.2	-1.08	-1.11	0	0	0	0	0	0
8/3/2024 16:10	57502	LAWN_T3	0	0	0	0	0	0	-1.15	-1.22	0	0	0	0	0	0
8/3/2024 16:10	47101	MARL_T1	16	22	6	1.19	1.21	0.02	-0.77	-0.73	1	1	0	600	600	0
8/3/2024 16:10	66001	RHEE_T2	0	0	0	0	0	0	-1.13	-1.16	2	2	0	2100	2100	0
8/3/2024 16:11	57601	RUTH_T2	0	0	0	0	0	0	-1.82	-1.89	1	1	0	900	900	0
8/3/2024 16:11	47101	MARL_T1	16	22	6	1.19	1.21	0.02	-1.53	-1.46	2	2	0	1200	1200	0
8/3/2024 16:11	57501	LAWN_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/3/2024 16:11	57502	LAWN_T3	0	0	0	0	0	0	-1.15	-1.22	0	0	0	0	0	0
8/3/2024 16:12	61302	EARL_T1	0	0	0	0	0	0	0.25	0.13	3	3	0	2700	2700	0
8/3/2024 16:14	46206	DANV_T2	1	1	0	0.7	0	-0.7	-2.17	-2.16	4	4	0	4200	4200	0
8/3/2024 16:14	46203	DANV_T2	4	0	-4	0.18	0	-0.18	0	0	0	0	0	0	0	0
8/3/2024 16:15	50105	HARR_T3	6	6	0	6.22	6.18	-0.04	0	0	0	0	0	0	0	0
8/3/2024 16:15	50103	HARR_T3	5	5	0	0.46	0	-0.46	-0.95	-0.94	1	1	0	1200	1200	0
8/3/2024 16:15	50107	HARR_T3	2	1	-1	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
8/3/2024 16:17	50105	HARR_T3	6	6	0	6.22	6.18	-0.04	0	0	0	0	0	0	0	0
8/3/2024 16:17	50107	HARR_T3	2	1	-1	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
8/3/2024 16:17	50103	HARR_T3	5	5	0	0.46	0	-0.46	-0.95	-0.94	1	1	0	1200	1200	0
8/3/2024 16:27	43108	SMIL_T2	0	0	0	0	0	0	-0.92	-0.87	1	1	0	1200	1200	0
8/3/2024 16:27	43101	SMIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/3/2024 16:29	67602	WARW_T2	201	0	-201	2.76	0	-2.76	0.2	0.22	0	0	0	0	0	0
8/3/2024 16:34	52501	PROG_T1	2	1	-1	0.1	0.1	0	-0.74	-0.7	1	1	0	300	300	0
8/3/2024 16:34	52504	PROG_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 16:35	65603	QVIL_T2	0	0	0	0	0	0	-0.73	-0.81	0	0	0	0	0	0
8/3/2024 16:35	65604	QVIL_T2	9	6	-3	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
8/3/2024 16:35	65602	QVIL_T2	5	8	3	0.54	0.47	-0.07	0	0	0	0	0	0	0	0
8/3/2024 16:35	65601	QVIL_T2	47	18	-29	0.47	0	-0.47	0	0	0	0	0	0	0	0
8/3/2024 16:37	66701	STRA_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/3/2024 16:37	66703	STRA_T1	16	3	-13	0.33	0	-0.33	-1.41	-1.35	0	0	0	0	0	0
8/3/2024 16:37	42201	SHEN_T2	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
8/3/2024 16:39	44903	SCOT_T1	0	0	0	0	0	0	-0.28	0.94	0	0	0	0	0	0
8/3/2024 16:42	61801	EELI_T2	1	1	0	0.3	0.3	0	-0.17	-0.01	1	1	0	600	600	0
8/3/2024 16:42	61802	EELI_T2	4	4	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
8/3/2024 16:43	60901	DONG_T2	4	8	4	0.38	0.2	-0.18	0	0	0	0	0	0	0	0
8/3/2024 16:43	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 16:45	61801	EELI_T2	1	1	0	0.3	0.5	0.2	-0.17	-0.01	1	1	0	600	600	0
8/3/2024 16:45	25503	MADI_T1	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
8/3/2024 16:45	61802	EELI_T2	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0	0
8/3/2024 16:46	63602	LETO_T1	0	1	1	0	0.1	0.1	-0.61	-0.58	1	1	0	600	600	0
8/3/2024 16:47	23502	GEOR_T1	0	0	0	0	0	0	-0.96	-0.97	1	1	0	1200	1200	0
8/3/2024 16:47	53902	HALI_T2	1	1	0	3.7	3.4	-0.3	-0.62	-0.6	0	0	0	0	0	0
8/3/2024 16:53	43103	SMIL_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 16:53	43101	SMIL_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
8/3/2024 16:53	47401	PENS_T1	2	3	1	0.15	0.45	0.3	0.32	0.44	0	0	0	0	0	0
8/3/2024 16:53	43104	SMIL_T2	0	0	0	0	0	0	-0.45	-0.45	1	1	0	300	300	0
8/3/2024 16:54	47401	PENS_T1	2	3	1	0.15	0.45	0.3	0.32	0.44	0	0	0	0	0	0
8/3/2024 16:55	43103	SMIL_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 16:55	43104	SMIL_T2	0	0	0	0	0	0	-0.45	-0.45	1	1	0	300	300	0
8/3/2024 16:55	43101	SMIL_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
8/3/2024 16:55	47401	PENS_T1	2	3	1	0.15	0.45	0.3	0.32	0.44	0	0	0	0	0	0
8/3/2024 16:56	43104	SMIL_T2	0	0	0	0	0	0	-0.45	-0.45	1	1	0	300	300	0
8/3/2024 16:56	41602	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	2	2	0	1500	1500	0
8/3/2024 16:56	43103	SMIL_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 16:56	43101	SMIL_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
8/3/2024 16:57	43101	SMIL_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
8/3/2024 16:57	43104	SMIL_T2	0	0	0	0	0	0	-0.45	-0.45	1	1	0	300	300	0
8/3/2024 16:57	43103	SMIL_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 16:59	48302	ORWI_T2	0	1	1	0	0.1	0.1	-0.71	-0.76	0	0	0	0	0	0
8/3/2024 16:59	55101	WERT_T1	0	0	0	0	0	0	-2.09	-2.06	4	4	0	3300	3300	0
8/3/2024 16:59	53901	HALI_T2	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
8/3/2024 16:59	53902	HALI_T2	1	1	0	3.7	3.4	-0.3	0	0	0	0	0	0	0	0
8/3/2024 17:00	53901	HALI_T2	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
8/3/2024 17:00	53902	HALI_T2	1	1	0	3.4	3.9	0.5	0	0	0	0	0	0	0	0
8/3/2024 17:01	53901	HALI_T2	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
8/3/2024 17:01	53902	HALI_T2	1	1	0	3.4	3.9	0.5	0	0	0	0	0	0	0	0
8/3/2024 17:02	64201	KINZ_T1	1	1	0	0.5	1	0.5	-0.34	-0.55	4	4	0	2100	2100	0
8/3/2024 17:02	64204	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/3/2024 17:02	64203	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 17:02	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 17:03	53901	HALI_T2	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
8/3/2024 17:03	53902	HALI_T2	1	1	0	3.4	3.9	0.5	0	0	0	0	0	0	0	0
8/3/2024 17:03	57502	LAWN_T3	0	0	0	0	0	0	-1.17	-1.13	0	0	0	0	0	0
8/3/2024 17:03	57505	LAWN_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 17:05	64203	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 17:05	64201	KINZ_T1	1	1	0	0.5	1	0.5	-0.34	-0.55	4	4	0	2100	2100	0
8/3/2024 17:05	64204	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/3/2024 17:05	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 17:06	46901	MNTG_T2	0	0	0	0	0	0	-0.46	-0.48	1	1	0	1200	1200	0
8/3/2024 17:10	64801	MONE_T2	30	14	-16	0.41	0.5	0.09	0	0	0	0	0	0	0	0
8/3/2024 17:10	64802	MONE_T2	7	0	-7	0.23	0	-0.23	-0.34	-0.17	0	0	0	0	0	0
8/3/2024 17:14	60201	ATGL_T2	7	1	-6	0.84	0	-0.84	0.37	0.8	2	1	-1	900	300	-600
8/3/2024 17:20	46901	MNTG_T2	0	0	0	0	0	0	-0.48	-0.74	1	1	0	1200	1200	0
8/3/2024 17:21	46504	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 17:21	46506	LOHA_T1	140	141	1	0.25	0.27	0.02	-1.78	-1.82	2	2	0	2100	2100	0
8/3/2024 17:28	40201	BEGA_T2	2	1	-1	1	0.6	-0.4	0	0	0	0	0	0	0	0
8/3/2024 17:29	65602	QVIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/3/2024 17:29	65603	QVIL_T2	0	91	91	0	2.9	2.9	0	0	0	0	0	0	0	0
8/3/2024 17:29	65601	QVIL_T2	0	1417	1417	0	3.99	3.99	0.22	-0.1	1	1	0	900	900	0
8/3/2024 17:29	65604	QVIL_T2	1	3	2	1.3	0	-1.3	0	0	0	0	0	0	0	0
8/3/2024 17:30	40201	BEGA_T2	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/3/2024 17:41	65601	QVIL_T2	1411	352	-1059	5.63	2.58	-3.05	0	0	0	0	0	0	0	0
8/3/2024 17:41	65604	QVIL_T2	2	0	-2	1.2	0	-1.2	0.49	1.02	0	0	0	0	0	0
8/3/2024 17:41	65603	QVIL_T2	1	1	0	6.8	1.8	-5	0	0	0	0	0	0	0	0
8/3/2024 17:41	65602	QVIL_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
8/3/2024 17:44	65602	QVIL_T2	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
8/3/2024 17:44	65604	QVIL_T2	2	0	-2	1.2	0	-1.2	0.49	1.02	0	0	0	0	0	0
8/3/2024 17:44	65603	QVIL_T2	1	1	0	6.8	1.8	-5	0	0	0	0	0	0	0	0
8/3/2024 17:44	65601	QVIL_T2	1411	352	-1059	5.63	2.58	-3.05	0	0	0	0	0	0	0	0
8/3/2024 17:47	67602	WARW_T2	0	0	0	0	0	0	0.2	0.4	0	0	0	0	0	0
8/3/2024 17:48	67504	WEWI_T1	0	81	81	0	1.53	1.53	0	0	0	0	0	0	0	0
8/3/2024 17:48	67501	WEWI_T1	67	52	-15	1.38	0.7	-0.68	0	0	0	0	0	0	0	0
8/3/2024 17:48	63305	GREE_T1	7	2	-5	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
8/3/2024 17:48	67505	WEWI_T1	0	0	0	0	0	0	0	-0.12	1	1	0	900	900	0
8/3/2024 17:48	63304	GREE_T1	0	0	0	0	0	0	-2.18	-2.25	0	0	0	0	0	0
8/3/2024 17:48	66703	STRA_T1	0	0	0	0	0	0	0.15	-0.06	0	0	0	0	0	0
8/3/2024 17:49	64201	KINZ_T1	1	0	-1	1	0	-1	-0.76	-0.81	4	4	0	2100	2100	0
8/3/2024 17:49	67602	WARW_T2	0	0	0	0	0	0	0.2	0.4	0	0	0	0	0	0
8/3/2024 17:49	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 17:49	64204	KINZ_T1	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
8/3/2024 17:50	66702	STRA_T1	0	0	0	0	0	0	-1.28	-1.59	2	2	0	1500	1500	0
8/3/2024 17:50	46102	MACI_T1	0	1	1	0	0	0	0.85	0.84	0	0	0	0	0	0
8/3/2024 17:50	60201	ATGL_T2	0	0	0	0	0	0	0.72	0.6	1	1	0	300	300	0
8/3/2024 17:52	67602	WARW_T2	0	0	0	0	0	0	0.4	0.46	0	0	0	0	0	0
8/3/2024 17:52	66703	STRA_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
8/3/2024 17:52	64204	KINZ_T1	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
8/3/2024 17:52	64203	KINZ_T1	0	0	0	0	0	0	-0.51	-0.08	2	1	-1	900	600	-300
8/3/2024 17:52	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 17:52	64201	KINZ_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
8/3/2024 17:53	64204	KINZ_T1	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
8/3/2024 17:53	64203	KINZ_T1	0	0	0	0	0	0	-0.51	-0.08	2	1	-1	900	600	-300
8/3/2024 17:53	66703	STRA_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
8/3/2024 17:53	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 17:53	64201	KINZ_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
8/3/2024 18:01	46101	MACI_T2	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
8/3/2024 18:14	67602	WARW_T2	0	0	0	0	0	0	0.46	0.11	0	1	1	0	1200	1200
8/3/2024 18:17	47502	NECO_T1	1	1	0	0.5	0.6	0.1	0.93	0.92	0	0	0	0	0	0
8/3/2024 18:19	51101	CARL_T1	1	1	0	7.4	6.1	-1.3	0	0	0	0	0	0	0	0
8/3/2024 18:19	47502	NECO_T1	1	1	0	0.5	0.6	0.1	0.93	0.92	0	0	0	0	0	0
8/3/2024 18:19	51108	CARL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/3/2024 18:19	67602	WARW_T2	0	0	0	0	0	0	0.46	0.11	0	1	1	0	1200	1200
8/3/2024 18:19	51109	CARL_T1	0	0	0	0	0	0	-1.62	-1.76	1	1	0	1200	1200	0
8/3/2024 18:23	58706	ROSE_T2	1	1	0	2.2	1.8	-0.4	0	0	0	0	0	0	0	0
8/3/2024 18:23	58702	ROSE_T2	0	0	0	0	0	0	-1.73	-1.64	0	0	0	0	0	0
8/3/2024 18:23	58705	ROSE_T2	4	4	0	0.58	1.1	0.52	0	0	0	0	0	0	0	0
8/3/2024 18:24	59201	THOM_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/3/2024 18:24	59202	THOM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 18:26	41602	CLEV_T1	3	5	2	0.53	0.7	0.17	0	0	1	1	0	600	600	0
8/3/2024 18:27	51905	COPA_T1	1	0	-1	0.1	0	-0.1	0	0	1	0	0	0	0	0
8/3/2024 18:27	51906	COPA_T1	0	0	0	0	0	0	-1.09	-1.01	2	2	0	1500	1500	0
8/3/2024 18:35	57704	PAXT_T2	0	0	0	0	0	0	-0.95	-0.99	1	1	0	900	900	0
8/3/2024 18:36	57704	PAXT_T2	0	0	0	0	0	0	-0.95	-0.99	1	1	0	900	900	0
8/3/2024 18:48	66303	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 18:48	66301	MCGO_T2	0	0	0	0	0	0	-1.4	-1.36	0	0	0	0	0	0
8/3/2024 18:53	65804	RTWN_T1	0	0	0	0	0	0	0.93	0.9	1	1	0	600	600	0
8/3/2024 19:11	43401	BENT_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/3/2024 19:11	43402	BENT_T1	0	0	0	0	0	0	-0.79	-0.8	1	1	0	900	900	0
8/3/2024 19:13	43402	BENT_T1	0	0	0	0	0	0	-0.79	-0.8	1	1	0	900	900	0
8/3/2024 19:13	43401	BENT_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/3/2024 19:14	43802	SWIL_T1	0	0	0	0	0	0	0.31	0.3	1	1	0	600	600	0
8/3/2024 19:14	43801	SWIL_T1	2	2	0	3.2	3.15	-0.05	0	0	0	0	0	0	0	0
8/3/2024 19:16	43802	SWIL_T1	0	0	0	0	0	0	0.31	0.3	1	1	0	600	600	0
8/3/2024 19:16	43801	SWIL_T1	2	2	0	3.2	3.1	-0.1	0	0	0	0	0	0	0	0
8/3/2024 19:29	22701	MINO_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
8/3/2024 20:00	58803	COCO_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/3/2024 20:19	63602	LETO_T1	7	0	-7	0.16	0	-0.16	-0.77	-0.6	1	1	0	600	600	0
8/3/2024 20:39	42601	TUSC_T1	0	0	0	0	0	0	-0.1	-0.1	2	2	0	1800	1800	0
8/3/2024 20:49	42302	MOWR_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
8/3/2024 20:49	42301	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 20:51	65205	PRIN_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
8/3/2024 20:57	49803	UNIV_T1	1	1	0	5.5	5.4	-0.1	-1.78	-1.83	0	0	0	0	0	0
8/3/2024 21:22	47101	MARL_T1	13	13	0	0.59	0.54	-0.05	-0.4	-0.43	0	0	0	0	0	0
8/3/2024 21:22	47104	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 21:23	47101	MARL_T1	13	0	-13	0.59	0.54	-0.05	-0.4	-0.43	0	0	0	0	0	0
8/3/2024 21:23	47104	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 21:25	47001	HUGH_T2	3	3	0	8.37	7.5	-0.87	-1.43	-1.45	1	1	0	900	900	0
8/3/2024 21:26	47001	HUGH_T2	3	3	0	8.37	7.5	-0.87	-1.43	-1.45	1	1	0	900	900	0
8/3/2024 21:29	47001	HUGH_T2	3	3	0	8.37	7.5	-0.87	-1.43	-1.45	1	1	0	900	900	0
8/3/2024 21:32	56501	ROCK_T2	11	92	81	0.24	0.24	0	0	0	0	0	0	0	0	0
8/3/2024 21:32	56504	ROCK_T2	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
8/3/2024 21:33	13503	MCMI_T2	0	0	0	0	0	0	-0.68	-0.71	0	0	0	0	0	0
8/3/2024 21:35	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 21:37	56501	ROCK_T2	11	92	81	0.24	0.24	0	0	0	0	0	0	0	0	0
8/3/2024 21:37	56504	ROCK_T2	0	0	0	0	0	0	-0.75	-0.78	0	0	0	0	0	0
8/3/2024 21:39	56504	ROCK_T2	0	0	0	0	0	0	-0.75	-0.78	0	0	0	0	0	0
8/3/2024 21:39	56501	ROCK_T2	11	92	81	0.24	0.24	0	0	0	0	0	0	0	0	0
8/3/2024 21:41	56504	ROCK_T2	0	0	0	0	0	0	-0.75	-0.78	0	0	0	0	0	0
8/3/2024 21:41	15604	NSTR_T1	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
8/3/2024 21:41	56501	ROCK_T2	11	92	81	0.24	0.24	0	0	0	0	0	0	0	0	0
8/3/2024 21:44	16503	STRO_T2	0	0	0	0	0	0	-0.6	-0.61	1	1	0	1200	1200	0
8/3/2024 21:46	56501	ROCK_T2	53	199	146	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/3/2024 21:46	56504	ROCK_T2	7	0	-7	4.5	0	-4.5	-0.75	-0.78	0	0	0	0	0	0
8/3/2024 21:54	65802	RTWN_T2	0	0	0	0	0	0	0.28	0.24	0	0	0	0	0	0
8/3/2024 21:58	61303	EARL_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/3/2024 21:58	61701	ELIZ_T1	1	1	0	3.8	3.9	0.1	0.98	0.93	0	0	0	0	0	0
8/3/2024 21:58	61301	EARL_T1	0	0	0	0	0	0	-1.03	-1.02	2	2	0	1800	1800	0
8/3/2024 22:01	60201	ATGL_T2	0	0	0	0	0	0	0.78	0.83	0	0	0	0	0	0
8/3/2024 22:01	65603	QVIL_T2	0	0	0	0	0	0	0.27	0.31	0	0	0	0	0	0
8/3/2024 22:01	62102	ELAN_T1	0	0	0	0	0	0	1.31	1.23	0	0	0	0	0	0
8/3/2024 22:03	29402	BELT_T1	1	1	0	8.2	8.9	0.7	0	0	0	0	0	0	0	0
8/3/2024 22:03	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 22:04	29402	BELT_T1	1	1	0	8.2	8.9	0.7	0	0	0	0	0	0	0	0
8/3/2024 22:05	62102	ELAN_T1	0	0	0	0	0	0	1.31	1.23	0	0	0	0	0	0
8/3/2024 22:05	60103	COCA_T2	0	0	0	0	0	0	-0.61	-0.67	2	2	0	2100	2100	0
8/3/2024 22:05	64302	LINC_T2	0	0	0	0	0	0	1.11	1.12	0	0	0	0	0	0
8/3/2024 22:06	67702	WERN_T2	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
8/3/2024 22:06	29402	BELT_T1	1	1	0	8.2	8.9	0.7	0	0	0	0	0	0	0	0
8/3/2024 22:06	61505	EPET_T1	0	0	0	0	0	0	0.87	0.83	0	0	0	0	0	0
8/3/2024 22:07	65207	PRIN_T4	2	5	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/3/2024 22:07	61304	EARL_T1	0	0	0	0	0	0	-0.34	-0.41	1	1	0	600	600	0
8/3/2024 22:07	66103	REAM_T2	0	0	0	0	0	0	0.12	0.09	1	1	0	1200	1200	0
8/3/2024 22:07	62102	ELAN_T1	0	0	0	0	0	0	1.23	1.46	0	0	0	0	0	0
8/3/2024 22:07	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/3/2024 22:07	65001	NEFF_T2	0	0	0	0	0	0	-0.89	-0.98	1	1	0	1200	1200	0
8/3/2024 22:07	63401	HONY_T1	0	0	0	0	0	0	0.8	0.66	0	0	0	0	0	0
8/3/2024 22:07	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0.04	0.01	0	0	0	0	0	0
8/3/2024 22:07	67103	SPRI_T1	0	0	0	0	0	0	-0.77	-0.19	0	0	0	0	0	0
8/3/2024 22:07	61302	EARL_T1	0	0	0	0	0	0	0.07	0.05	2	2	0	1800	1800	0
8/3/2024 22:07	61301	EARL_T1	0	0	0	0	0	0	-1.02	-1.04	2	2	0	1800	1800	0
8/3/2024 22:08	62102	ELAN_T1	0	0	0	0	0	0	1.23	1.46	0	0	0	0	0	0
8/3/2024 22:08	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0.04	0.01	0	0	0	0	0	0
8/3/2024 22:08	63203	MGTN_T1	0	0	0	0	0	0	-0.81	-0.81	2	2	0	1200	1200	0
8/3/2024 22:08	60103	COCA_T2	0	0	0	0	0	0	-0.67	-0.66	2	2	0	2100	2100	0
8/3/2024 22:09	66903	SHIL_T2	48	108	60	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/3/2024 22:09	66902	SHIL_T2	59	133	74	0.17	0.25	0.08	0	0	0	0	0	0	0	0
8/3/2024 22:09	61302	EARL_T1	0	0	0	0	0	0	0.07	0.05	2	2	0	1800	1800	0
8/3/2024 22:09	64302	LINC_T2	0	0	0	0	0	0	1.12	1.09	0	0	0	0	0	0
8/3/2024 22:09	67103	SPRI_T1	0	0	0	0	0	0	-0.77	-0.19	0	0	0	0	0	0
8/3/2024 22:09	61103	BERK_T5	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
8/3/2024 22:09	66901	SHIL_T2	196	305	109	0.31	0.42	0.11	0.16	0.18	0	0	0	0	0	0
8/3/2024 22:09	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 22:09	67303	WYOM_T2	0	0	0	0	0	0	-1.3	-1.33	0	0	0	0	0	0
8/3/2024 22:09	61701	ELIZ_T1	1	1	0	3.9	3.9	0	0.93	0.82	0	0	0	0	0	0
8/3/2024 22:10	64101	REFR_T1	0	0	0	0	0	0	0.99	0.76	0	0	0	0	0	0
8/3/2024 22:10	29402	BELT_T1	1	1	0	8.2	8.9	0.7	0	0	0	0	0	0	0	0
8/3/2024 22:10	63401	HONY_T1	0	0	0	0	0	0	0.8	0.66	0	0	0	0	0	0
8/3/2024 22:10	13503	MCMI_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
8/3/2024 22:10	63403	HONY_T2	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
8/3/2024 22:10	61102	BERK_T5	0	0	0	0	0	0	-0.13	0.75	1	1	0	300	300	0
8/3/2024 22:10	22002	BOHE_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
8/3/2024 22:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/3/2024 22:10	47101	MARL_T1	12	15	3	0.58	0.31	-0.27	-0.45	-0.46	0	0	0	0	0	0
8/3/2024 22:10	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/3/2024 22:10	27502	WEIS_T2	8	2	-6	0.39	0	-0.39	-0.33	-0.35	0	0	0	0	0	0
8/3/2024 22:10	63402	HONY_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/3/2024 22:10	67605	WARW_T1	1	1	0	0.5	0.2	-0.3	-1.11	-1.13	0	0	0	0	0	0
8/3/2024 22:10	61301	EARL_T1	0	0	0	0	0	0	-1.02	-1.04	2	2	0	1800	1800	0
8/3/2024 22:11	66903	SHIL_T2	48	108	60	0.2	0.3	0.1	-0.48	-0.55	0	0	0	0	0	0
8/3/2024 22:11	20601	GRWO_T2	6	2	-4	0.52	0	-0.52	0.84	0.81	0	0	0	0	0	0
8/3/2024 22:11	67303	WYOM_T2	0	0	0	0	0	0	-2.6	-2.66	0	0	0	0	0	0
8/3/2024 22:11	16402	MOPO_T1	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
8/3/2024 22:11	66902	SHIL_T2	59	133	74	0.17	0.25	0.08	0	0	0	0	0	0	0	0
8/3/2024 22:11	64101	REFR_T1	0	0	0	0	0	0	0.66	0.51	0	0	0	0	0	0
8/3/2024 22:11	40603	PIGR_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
8/3/2024 22:11	61103	BERK_T5	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
8/3/2024 22:11	67605	WARW_T1	1	1	0	0.5	0.2	-0.3	-1.11	-1.13	0	0	0	0	0	0
8/3/2024 22:11	46302	ROHR_T1	4	4	0	1.28	1.6	0.32	0.34	0.31	0	0	0	0	0	0
8/3/2024 22:11	66901	SHIL_T2	196	305	109	0.31	0.42	0.11	0	0	0	0	0	0	0	0
8/3/2024 22:12	63403	HONY_T2	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
8/3/2024 22:12	61703	ELIZ_T1	0	0	0	0	0	0	-2.65	-2.51	2	2	0	2100	2100	0
8/3/2024 22:12	67303	WYOM_T2	0	0	0	0	0	0	-1.3	-1.33	0	0	0	0	0	0
8/3/2024 22:12	61701	ELIZ_T1	1	1	0	3.9	3.9	0	0	0	0	0	0	0	0	0
8/3/2024 22:12	64203	KINZ_T1	0	1	1	0	0.1	0.1	-0.11	-0.15	1	1	0	600	600	0
8/3/2024 22:12	67801	WLAN_T1	2	0	-2	0.1	0	-0.1	-0.66	-0.68	0	0	0	0	0	0
8/3/2024 22:12	64101	REFR_T1	0	0	0	0	0	0	0.33	0.25	0	0	0	0	0	0
8/3/2024 22:12	26401	INOR_T1	1	1	0	7.5	8.3	0.8	0	0	0	0	0	0	0	0
8/3/2024 22:12	45302	WBER_T2	0	0	0	0	0	0	1	1.02	0	0	0	0	0	0
8/3/2024 22:12	64201	KINZ_T1	1	9	8	1.5	0.29	-1.21	0	0	0	0	0	0	0	0
8/3/2024 22:12	64204	KINZ_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
8/3/2024 22:12	61102	BERK_T5	0	0	0	0	0	0	-0.13	0.75	1	1	0	300	300	0
8/3/2024 22:12	26402	INOR_T1	0	0	0	0	0	0	-0.91	-1.03	0	0	0	0	0	0
8/3/2024 22:12	67804	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 22:12	63402	HONY_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/3/2024 22:12	64202	KINZ_T1	3	3	0	0.4	0.63	0.23	0	0	0	0	0	0	0	0
8/3/2024 22:12	63401	HONY_T1	0	0	0	0	0	0	0.8	0.66	0	0	0	0	0	0
8/3/2024 22:13	61702	ELIZ_T2	0	0	0	0	0	0	-1.55	-1.59	2	2	0	1500	1500	0
8/3/2024 22:13	67605	WARW_T1	1	1	0	0.5	0.2	-0.3	-1.11	-1.13	0	0	0	0	0	0
8/3/2024 22:13	61103	BERK_T5	0	0	0	0	0	0	0.77	0.78	0	0	0	0	0	0
8/3/2024 22:13	66303	MCGO_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
8/3/2024 22:13	66301	MCGO_T2	0	0	0	0	0	0	-1.45	-1.44	0	0	0	0	0	0
8/3/2024 22:13	61703	ELIZ_T1	0	0	0	0	0	0	-2.65	-2.51	2	2	0	2100	2100	0
8/3/2024 22:13	21204	ECAR_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/3/2024 22:13	61701	ELIZ_T1	1	1	0	3.9	3.9	0	0	0	0	0	0	0	0	0
8/3/2024 22:13	29402	BELT_T1	1	1	0	8.2	8.9	0.7	0	0	0	0	0	0	0	0
8/3/2024 22:13	21206	ECAR_T2	1	1	0	7.9	8.1	0.2	0.3	0.28	0	0	0	0	0	0
8/3/2024 22:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 22:13	64101	REFR_T1	0	0	0	0	0	0	0.33	0.25	0	0	0	0	0	0
8/3/2024 22:13	67103	SPRI_T1	0	0	0	0	0	0	-0.77	-0.19	0	0	0	0	0	0
8/3/2024 22:13	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/3/2024 22:13	65804	RTWN_T1	0	0	0	0	0	0	0.67	0.65	1	1	0	600	600	0
8/3/2024 22:14	66903	SHIL_T2	48	108	60	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/3/2024 22:14	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 22:14	66901	SHIL_T2	196	305	109	0.31	0.42	0.11	0.16	0.18	0	0	0	0	0	0
8/3/2024 22:14	65001	NEFF_T2	0	0	0	0	0	0	-0.89	-0.98	1	1	0	1200	1200	0
8/3/2024 22:14	64101	REFR_T1	0	0	0	0	0	0	0.33	0.25	0	0	0	0	0	0
8/3/2024 22:14	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 22:14	61102	BERK_T5	0	0	0	0	0	0	-0.13	0.75	1	1	0	300	300	0
8/3/2024 22:14	47802	MOCA_T2	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
8/3/2024 22:14	20601	GRWO_T2	6	2	-4	0.52	0	-0.52	0.84	0.81	0	0	0	0	0	0
8/3/2024 22:14	66902	SHIL_T2	59	133	74	0.17	0.25	0.08	0	0	0	0	0	0	0	0
8/3/2024 22:14	29402	BELT_T1	1	1	0	8.2	8.9	0.7	0	0	0	0	0	0	0	0
8/3/2024 22:14	22905	HARW_T1	18	19	1	1.47	1.34	-0.13	0	0	0	0	0	0	0	0
8/3/2024 22:14	22901	HARW_T1	0	0	0	0	0	0	-0.54	-0.59	1	1	0	1200	1200	0
8/3/2024 22:14	20403	ASHF_T2	0	0	0	0	0	0	0.6	0.62	0	0	0	0	0	0
8/3/2024 22:15	47101	MARL_T1	15	7	-8	0.33	0.18	-0.15	-0.9	-0.92	0	0	0	0	0	0
8/3/2024 22:15	44201	POIN_T1	0	0	0	0	0	0	-1.43	-1.58	1	1	0	1200	1200	0
8/3/2024 22:15	42201	SHEN_T2	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
8/3/2024 22:15	66901	SHIL_T2	248	326	78	0.39	0.46	0.07	0	0	0	0	0	0	0	0
8/3/2024 22:15	66903	SHIL_T2	71	148	77	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
8/3/2024 22:15	60502	NMAN_T2	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
8/3/2024 22:15	15604	NSTR_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
8/3/2024 22:15	44903	SCOT_T1	0	0	0	0	0	0	0.69	0.66	0	0	0	0	0	0
8/3/2024 22:15	66902	SHIL_T2	97	161	64	0.22	0.27	0.05	-0.01	-0.01	0	0	0	0	0	0
8/3/2024 22:15	67303	WYOM_T2	0	0	0	0	0	0	-1.3	-1.33	0	0	0	0	0	0
8/3/2024 22:15	45501	DERR_T2	0	0	0	0	0	0	-0.24	-0.33	2	2	0	1800	1800	0
8/3/2024 22:15	61801	EELI_T2	0	0	0	0	0	0	0.27	0.2	0	0	0	0	0	0
8/3/2024 22:15	60103	COCA_T2	0	0	0	0	0	0	-0.67	-0.66	2	2	0	2100	2100	0
8/3/2024 22:15	46504	LOHA_T1	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
8/3/2024 22:15	57601	RUTH_T2	0	0	0	0	0	0	-0.93	-0.99	1	1	0	900	900	0
8/3/2024 22:15	65402	MARI_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 22:15	46506	LOHA_T1	285	366	81	0.45	0.47	0.02	-1.91	-1.9	2	2	0	2100	2100	0
8/3/2024 22:15	27302	PARR_T1	0	0	0	0	0	0	-1.8	-1.83	0	0	0	0	0	0
8/3/2024 22:15	46001	BERW_T1	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
8/3/2024 22:15	64101	REFR_T1	0	0	0	0	0	0	0.33	0.25	0	0	0	0	0	0
8/3/2024 22:15	13503	MCMI_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
8/3/2024 22:15	20403	ASHF_T2	0	0	0	0	0	0	0.6	0.62	0	0	0	0	0	0
8/3/2024 22:15	20402	ASHF_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/3/2024 22:16	29402	BELT_T1	1	1	0	8.5	8.9	0.4	0	0	0	0	0	0	0	0
8/3/2024 22:16	16402	MOPO_T1	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
8/3/2024 22:16	40201	BEGA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/3/2024 22:16	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/3/2024 22:16	42201	SHEN_T2	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
8/3/2024 22:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 22:16	67303	WYOM_T2	0	0	0	0	0	0	-1.3	-1.33	0	0	0	0	0	0
8/3/2024 22:17	27604	PIRI_T1	0	0	0	0	0	0	0.77	0.75	0	0	0	0	0	0
8/3/2024 22:17	20403	ASHF_T2	0	0	0	0	0	0	0.6	0.62	0	0	0	0	0	0
8/3/2024 22:17	42201	SHEN_T2	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
8/3/2024 22:17	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/3/2024 22:17	43402	BENT_T1	0	0	0	0	0	0	-0.85	-0.86	1	1	0	900	900	0
8/3/2024 22:17	40602	PIGR_T1	0	1	1	0	0	0	-0.84	-0.9	1	1	0	600	600	0
8/3/2024 22:17	46001	BERW_T1	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
8/3/2024 22:17	65503	MOJO_T2	0	0	0	0	0	0	-0.92	-0.95	1	1	0	900	900	0
8/3/2024 22:17	20601	GRWO_T2	2	2	0	0.3	0	-0.3	0.84	0.81	0	0	0	0	0	0
8/3/2024 22:17	20402	ASHF_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/3/2024 22:17	42601	TUSC_T1	0	0	0	0	0	0	-0.28	-0.23	4	4	0	3600	3600	0
8/3/2024 22:17	40201	BEGA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/3/2024 22:18	43103	SMIL_T2	4	9	5	0.25	0.32	0.07	0	0	0	0	0	0	0	0
8/3/2024 22:18	40201	BEGA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/3/2024 22:18	20403	ASHF_T2	0	0	0	0	0	0	0.6	0.62	0	0	0	0	0	0
8/3/2024 22:18	63804	HEMP_T1	1	1	0	6.1	6.2	0.1	1.39	1.35	0	0	0	0	0	0
8/3/2024 22:18	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/3/2024 22:18	46203	DANV_T2	0	0	0	0	0	0	-1.68	-1.72	0	0	0	0	0	0
8/3/2024 22:18	57501	LAWN_T3	0	0	0	0	0	0	-1.38	-1.45	0	0	0	0	0	0
8/3/2024 22:18	67303	WYOM_T2	0	0	0	0	0	0	-1.3	-1.33	0	0	0	0	0	0
8/3/2024 22:18	46101	MACI_T2	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
8/3/2024 22:18	42701	AUGU_T1	1	0	-1	0.2	0	-0.2	0	0	2	2	0	1800	1800	0
8/3/2024 22:18	61103	BERK_T5	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
8/3/2024 22:18	20402	ASHF_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/3/2024 22:18	43108	SMIL_T2	0	0	0	0	0	0	-1.02	-1.06	1	1	0	1200	1200	0
8/3/2024 22:18	46206	DANV_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/3/2024 22:19	43103	SMIL_T2	4	9	5	0.25	0.32	0.07	-3.73	-3.76	0	0	0	0	0	0
8/3/2024 22:19	47101	MARL_T1	15	7	-8	0.33	0.18	-0.15	-0.45	-0.46	0	0	0	0	0	0
8/3/2024 22:19	22905	HARW_T1	18	21	3	1.52	0.3	-1.22	0	0	0	0	0	0	0	0
8/3/2024 22:19	44801	EDAN_T2	1	1	0	0.4	0.6	0.2	-1.41	-1.41	0	0	0	0	0	0
8/3/2024 22:19	44201	POIN_T1	0	0	0	0	0	0	-1.43	-1.58	1	1	0	1200	1200	0
8/3/2024 22:19	22901	HARW_T1	0	0	0	0	0	0	-1.07	-1.19	2	2	0	2400	2400	0
8/3/2024 22:19	44203	POIN_T2	1	2	1	0.1	0	-0.1	-2.33	-2.51	4	4	0	4200	4200	0
8/3/2024 22:19	61701	ELIZ_T1	1	1	0	3.9	4.1	0.2	1.85	1.64	0	0	0	0	0	0
8/3/2024 22:19	61703	ELIZ_T1	0	0	0	0	0	0	-2.65	-2.51	2	2	0	2100	2100	0
8/3/2024 22:19	47401	PENS_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
8/3/2024 22:19	61901	EELI_T1	0	0	0	0	0	0	-1.93	-0.96	1	0	-1	900	0	-900
8/3/2024 22:19	42701	AUGU_T1	1	0	-1	0.2	0	-0.2	0	0	2	2	0	1800	1800	0
8/3/2024 22:20	46203	DANV_T2	0	0	0	0	0	0	-1.68	-1.72	0	0	0	0	0	0
8/3/2024 22:20	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 22:20	25501	MADI_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
8/3/2024 22:20	42701	AUGU_T1	1	0	-1	0.2	0	-0.2	0	0	4	4	0	3600	3600	0
8/3/2024 22:20	45501	DERR_T2	0	0	0	0	0	0	-0.24	-0.33	2	2	0	1800	1800	0
8/3/2024 22:20	25503	MADI_T1	58	46	-12	0.2	0.2	0	0	0	0	0	0	0	0	0
8/3/2024 22:20	42201	SHEN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 22:20	61702	ELIZ_T2	0	0	0	0	0	0	-1.55	-1.59	2	2	0	1500	1500	0
8/3/2024 22:20	46206	DANV_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/3/2024 22:20	46001	BERW_T1	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
8/3/2024 22:20	43402	BENT_T1	0	0	0	0	0	0	-0.85	-0.86	1	1	0	900	900	0
8/3/2024 22:20	47101	MARL_T1	15	7	-8	0.33	0.18	-0.15	-0.45	-0.46	0	0	0	0	0	0
8/3/2024 22:21	44203	POIN_T2	1	2	1	0.1	0	-0.1	-1.17	-1.25	2	2	0	2100	2100	0
8/3/2024 22:21	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 22:21	67605	WARW_T1	1	1	0	0.1	0.2	0.1	-1.13	-1.14	0	0	0	0	0	0
8/3/2024 22:21	61801	EELI_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
8/3/2024 22:21	60904	DONG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 22:21	25503	MADI_T1	58	46	-12	0.2	0.2	0	-0.76	-0.76	0	0	0	0	0	0
8/3/2024 22:21	20403	ASHF_T2	0	0	0	0	0	0	0.6	0.62	0	0	0	0	0	0
8/3/2024 22:21	46203	DANV_T2	0	0	0	0	0	0	-1.68	-1.72	0	0	0	0	0	0
8/3/2024 22:21	45501	DERR_T2	0	0	0	0	0	0	-0.24	-0.33	2	2	0	1800	1800	0
8/3/2024 22:21	51604	DUKE_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
8/3/2024 22:21	43103	SMIL_T2	4	9	5	0.25	0.32	0.07	-1.86	-1.88	0	0	0	0	0	0
8/3/2024 22:21	20402	ASHF_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/3/2024 22:21	52004	LING_T2	2	2	0	4.3	4.15	-0.15	0.02	0	0	0	0	0	0	0
8/3/2024 22:21	46206	DANV_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/3/2024 22:22	52004	LING_T2	2	2	0	4.3	4.15	-0.15	0	0	0	0	0	0	0	0
8/3/2024 22:22	23502	GEOR_T1	0	0	0	0	0	0	-0.77	-1.06	1	1	0	1200	1200	0
8/3/2024 22:22	61801	EELI_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
8/3/2024 22:22	46203	DANV_T2	0	0	0	0	0	0	-3.43	-3.41	0	0	0	0	0	0
8/3/2024 22:22	57601	RUTH_T2	0	0	0	0	0	0	-0.99	-1.02	1	1	0	900	900	0
8/3/2024 22:22	58803	COCO_T1	1	1	0	0.4	1.3	0.9	-1.26	-1.3	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/3/2024 22:22	52002	LING_T2	0	0	0	0	0	0	1.44	1.22	0	0	0	0	0	0
8/3/2024 22:22	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 22:22	51603	DUKE_T1	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
8/3/2024 22:22	42201	SHEN_T2	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
8/3/2024 22:22	45802	HEGI_T2	4	13	9	0.15	0.38	0.23	0.74	0.81	0	0	0	0	0	0
8/3/2024 22:22	57501	LAWN_T3	0	0	0	0	0	0	-1.45	-1.5	0	0	0	0	0	0
8/3/2024 22:22	51202	MTON_T2	0	0	0	0	0	0	-0.86	-0.85	1	1	0	1200	1200	0
8/3/2024 22:22	46206	DANV_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/3/2024 22:23	40201	BEGA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/3/2024 22:23	52202	DEVO_T2	0	0	0	0	0	0	-1.74	-1.75	0	0	0	0	0	0
8/3/2024 22:23	51304	WIND_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
8/3/2024 22:23	53903	HALI_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
8/3/2024 22:23	43103	SMIL_T2	4	9	5	0.25	0.32	0.07	0	0	0	0	0	0	0	0
8/3/2024 22:23	57502	LAWN_T3	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
8/3/2024 22:23	56501	ROCK_T2	198	227	29	0.3	0.31	0.01	-1.97	-2	0	0	0	0	0	0
8/3/2024 22:23	50107	HARR_T3	1	1	0	7.2	7.3	0.1	0	0	0	0	0	0	0	0
8/3/2024 22:23	43202	MVIL_T2	0	1	1	0	0.1	0.1	-0.55	-0.53	0	0	0	0	0	0
8/3/2024 22:23	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/3/2024 22:23	53501	EVIL_T2	1	1	0	0.7	0.1	-0.6	-0.28	-0.21	0	0	0	0	0	0
8/3/2024 22:23	61701	ELIZ_T1	1	1	0	3.9	4.1	0.2	0	0	0	0	0	0	0	0
8/3/2024 22:23	46504	LOHA_T1	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
8/3/2024 22:23	45501	DERR_T2	0	0	0	0	0	0	-0.33	-0.32	2	2	0	1800	1800	0
8/3/2024 22:23	42701	AUGU_T1	1	0	-1	0.2	0	-0.2	0	0	2	2	0	1800	1800	0
8/3/2024 22:23	52204	DEVO_T2	5	4	-1	1.36	1.03	-0.33	0	0	0	0	0	0	0	0
8/3/2024 22:23	50201	HARR_T3	2	2	0	4.5	5.05	0.55	0	0	0	0	0	0	0	0
8/3/2024 22:23	44801	EDAN_T2	1	1	0	0.4	0.6	0.2	-1.41	-1.42	0	0	0	0	0	0
8/3/2024 22:23	53902	HALI_T2	1	1	0	4.8	4.6	-0.2	-1.45	-1.38	0	0	0	0	0	0
8/3/2024 22:23	51402	LYKE_T1	17	0	-17	0.17	0	-0.17	0	0	0	0	0	0	0	0
8/3/2024 22:23	61703	ELIZ_T1	0	0	0	0	0	0	-2.51	-2.54	2	2	0	2100	2100	0
8/3/2024 22:23	27605	PIRI_T2	0	0	0	0	0	0	-0.16	-0.12	1	1	0	900	900	0
8/3/2024 22:23	57505	LAWN_T3	0	0	0	0	0	0	0.02	-0.04	0	0	0	0	0	0
8/3/2024 22:23	43108	SMIL_T2	0	0	0	0	0	0	-1.06	-1.08	1	1	0	1200	1200	0
8/3/2024 22:23	61801	EELI_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
8/3/2024 22:23	46506	LOHA_T1	285	366	81	0.45	0.47	0.02	-1.9	-1.93	2	2	0	2100	2100	0
8/3/2024 22:23	50103	HARR_T3	1	7	6	0.1	0.2	0.1	-1.17	-1.21	1	1	0	1200	1200	0
8/3/2024 22:23	46203	DANV_T2	0	0	0	0	0	0	-3.43	-3.41	0	0	0	0	0	0
8/3/2024 22:23	52002	LING_T2	0	0	0	0	0	0	0.48	0.41	0	0	0	0	0	0
8/3/2024 22:23	51401	LYKE_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
8/3/2024 22:23	50105	HARR_T3	6	6	0	5.8	5.88	0.08	0	0	0	0	0	0	0	0
8/3/2024 22:23	52004	LING_T2	2	2	0	4.3	4.15	-0.15	0	0	0	0	0	0	0	0
8/3/2024 22:23	58102	NEKI_T1	1	1	0	0.7	1.1	0.4	-1.5	-1.66	1	1	0	1200	1200	0
8/3/2024 22:23	46206	DANV_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/3/2024 22:24	51702	OBER_T1	2	2	0	2.45	2.7	0.25	-4.87	-4.93	3	3	0	1800	1800	0
8/3/2024 22:24	55101	WERT_T1	0	0	0	0	0	0	-1.77	-1.83	3	3	0	2400	2400	0
8/3/2024 22:24	41901	REED_T1	9	0	0	0.6	0.64	0.04	0	0	0	0	0	0	0	0
8/3/2024 22:24	43301	WATS_T2	1	1	0	0.2	0.5	0.3	-0.4	-0.41	1	1	0	900	900	0
8/3/2024 22:24	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/3/2024 22:24	46506	LOHA_T1	285	366	81	0.45	0.47	0.02	-1.9	-1.93	2	2	0	2100	2100	0
8/3/2024 22:24	57502	LAWN_T3	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
8/3/2024 22:24	43304	WATS_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 22:24	52004	LING_T2	2	2	0	4.3	4.15	-0.15	0	0	0	0	0	0	0	0
8/3/2024 22:24	57601	RUTH_T2	0	0	0	0	0	0	-0.99	-1.02	1	1	0	900	900	0
8/3/2024 22:24	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 22:24	57104	SPHI_T2	0	0	0	0	0	0	-1.41	-1.43	1	1	0	900	900	0
8/3/2024 22:24	46203	DANV_T2	0	0	0	0	0	0	-1.72	-1.7	0	0	0	0	0	0
8/3/2024 22:24	46504	LOHA_T1	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
8/3/2024 22:24	43108	SMIL_T2	0	0	0	0	0	0	-1.06	-1.08	1	1	0	1200	1200	0
8/3/2024 22:24	44801	EDAN_T2	1	1	0	0.4	0.6	0.2	-1.41	-1.42	0	0	0	0	0	0
8/3/2024 22:24	61701	ELIZ_T1	1	1	0	3.9	4.1	0.2	0	0	0	0	0	0	0	0
8/3/2024 22:24	57501	LAWN_T3	0	0	0	0	0	0	-1.45	-1.5	0	0	0	0	0	0
8/3/2024 22:24	57106	SPHI_T2	3	3	0	0.33	0.93	0.6	0	0	0	0	0	0	0	0
8/3/2024 22:24	52002	LING_T2	0	0	0	0	0	0	0.48	0.41	0	0	0	0	0	0
8/3/2024 22:24	41902	REED_T1	0	0	0	0	0	0	0.28	0.27	1	1	0	900	900	0
8/3/2024 22:24	45302	WBER_T2	0	2	2	0	0	0	1.02	0.95	0	0	0	0	0	0
8/3/2024 22:24	57602	RUTH_T2	0	0	0	0	0	0	-0.3	-0.36	0	0	0	0	0	0
8/3/2024 22:24	43103	SMIL_T2	4	9	5	0.25	0.32	0.07	0	0	0	0	0	0	0	0
8/3/2024 22:24	46206	DANV_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/3/2024 22:24	59101	WALK_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
8/3/2024 22:24	45502	DERR_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
8/3/2024 22:25	51906	COPA_T1	0	0	0	0	0	0	-1.43	-1.42	2	2	0	1500	1500	0
8/3/2024 22:25	57702	PAXT_T1	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
8/3/2024 22:25	51904	COPA_T1	3	5	2	0.27	0.94	0.67	0	0	0	0	0	0	0	0
8/3/2024 22:25	52404	GRPA_T2	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
8/3/2024 22:25	41901	REED_T1	9	0	0	0.6	0.64	0.04	0	0	0	0	0	0	0	0
8/3/2024 22:25	46504	LOHA_T1	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
8/3/2024 22:25	53902	HALI_T2	1	1	0	4.8	4.6	-0.2	-0.73	-0.69	0	0	0	0	0	0
8/3/2024 22:25	51702	OBER_T1	2	2	0	2.45	2.7	0.25	-1.62	-1.64	1	1	0	600	600	0
8/3/2024 22:25	55101	WERT_T1	0	0	0	0	0	0	-1.77	-1.83	3	3	0	2400	2400	0
8/3/2024 22:25	52403	GRPA_T2	2	3	1	0.6	0.8	0.2	-0.63	-0.65	0	0	0	0	0	0
8/3/2024 22:25	43202	MVIL_T2	0	1	1	0	0.1	0.1	-0.55	-0.53	0	0	0	0	0	0
8/3/2024 22:25	57501	LAWN_T3	0	0	0	0	0	0	-1.45	-1.5	0	0	0	0	0	0
8/3/2024 22:25	50107	HARR_T3	1	1	0	7.2	7.3	0.1	0	0	0	0	0	0	0	0
8/3/2024 22:25	40101	HUNT_T2	0	1	1	0	0	0	-1.05	-1.04	0	0	0	0	0	0
8/3/2024 22:25	57602	RUTH_T2	0	0	0	0	0	0	-0.61	-0.71	0	0	0	0	0	0
8/3/2024 22:25	53903	HALI_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
8/3/2024 22:25	43103	SMIL_T2	4	9	5	0.25	0.32	0.07	-3.76	-3.87	0	0	0	0	0	0
8/3/2024 22:25	46506	LOHA_T1	285	366	81	0.45	0.47	0.02	-1.9	-1.93	2	2	0	2100	2100	0
8/3/2024 22:25	43101	SMIL_T2	0	0	0	0	0	0	-0.61	-0.65	0	0	0	0	0	0
8/3/2024 22:25	50105	HARR_T3	6	6	0	5.8	5.88	0.08	0	0	0	0	0	0	0	0
8/3/2024 22:25	50201	HARR_T3	2	2	0	4.5	5.05	0.55	0	0	0	0	0	0	0	0
8/3/2024 22:25	42802	SELI_T1	0	0	0	0	0	0	-0.96	-0.91	0	0	0	0	0	0
8/3/2024 22:25	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/3/2024 22:25	41902	REED_T1	0	0	0	0	0	0	0.55	0.55	2	2	0	1800	1800	0
8/3/2024 22:25	43108	SMIL_T2	0	0	0	0	0	0	-1.06	-1.08	1	1	0	1200	1200	0
8/3/2024 22:25	50103	HARR_T3	1	7	6	0.1	0.2	0.1	-1.17	-1.21	1	1	0	1200	1200	0
8/3/2024 22:25	57505	LAWN_T3	0	0	0	0	0	0	0.02	-0.04	0	0	0	0	0	0
8/3/2024 22:25	53901	HALI_T2	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
8/3/2024 22:25	57502	LAWN_T3	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
8/3/2024 22:25	47401	PENS_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
8/3/2024 22:25	53601	DALM_T2	1	1	0	0.8	0.8	0	-0.6	-0.61	0	0	0	0	0	0
8/3/2024 22:25	51704	OBER_T1	0	0	0	0	0	0	-1.49	-1.52	1	1	0	1200	1200	0
8/3/2024 22:26	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 22:26	49804	UNIV_T1	1	0	-1	0.1	0	-0.1	0.96	0.96	0	0	0	0	0	0
8/3/2024 22:26	53502	EVIL_T2	0	0	0	0	0	0	0.43	0.4	1	1	0	600	600	0
8/3/2024 22:26	21601	EYNO_T1	1	0	-1	0.4	0	-0.4	0.26	0.26	0	0	0	0	0	0
8/3/2024 22:26	53501	EVIL_T2	1	1	0	0.7	0.1	-0.6	-0.28	-0.21	0	0	0	0	0	0
8/3/2024 22:26	57002	WHHI_T2	0	0	0	0	0	0	-2.1	-2.12	1	1	0	1200	1200	0
8/3/2024 22:26	51702	OBER_T1	2	2	0	2.45	2.7	0.25	-1.62	-1.64	1	1	0	600	600	0
8/3/2024 22:26	57104	SPHI_T2	0	0	0	0	0	0	-1.41	-1.43	1	1	0	900	900	0
8/3/2024 22:26	46302	ROHR_T1	4	4	0	1.53	1.63	0.1	0.31	0.3	0	0	0	0	0	0
8/3/2024 22:26	46504	LOHA_T1	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
8/3/2024 22:26	42902	MIDD_T2	0	0	0	0	0	0	-1.17	-1.18	1	1	0	600	600	0
8/3/2024 22:26	55101	WERT_T1	0	0	0	0	0	0	-5.32	-5.5	9	9	0	7200	7200	0
8/3/2024 22:26	41702	LOGA_T2	61	41	-20	0.27	0.18	-0.09	0	0	0	0	0	0	0	0
8/3/2024 22:26	23401	HONE_T2	1	1	0	0.2	0.6	0.4	-0.27	-0.25	0	0	0	0	0	0
8/3/2024 22:26	53902	HALI_T2	1	1	0	4.8	4.6	-0.2	0	0	0	0	0	0	0	0
8/3/2024 22:26	57505	LAWN_T3	0	0	0	0	0	0	0.03	-0.08	0	0	0	0	0	0
8/3/2024 22:26	52501	PROG_T1	34	0	-34	0.14	0	-0.14	0.36	0.39	1	1	0	300	300	0
8/3/2024 22:26	57602	RUTH_T2	0	0	0	0	0	0	-0.3	-0.36	0	0	0	0	0	0
8/3/2024 22:26	57205	ROSS_T1	0	0	0	0	0	0	-0.91	-0.91	0	0	0	0	0	0
8/3/2024 22:26	53903	HALI_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
8/3/2024 22:26	57106	SPHI_T2	3	3	0	0.33	0.93	0.6	0	0	0	0	0	0	0	0
8/3/2024 22:26	46506	LOHA_T1	285	366	81	0.45	0.47	0.02	-1.9	-1.93	2	2	0	2100	2100	0
8/3/2024 22:26	51402	LYKE_T1	17	0	-17	0.17	0	-0.17	1.37	-1.36	1	1	0	600	600	0
8/3/2024 22:26	53601	DALM_T2	1	1	0	0.8	0.8	0	-1.21	-1.21	0	0	0	0	0	0
8/3/2024 22:26	46901	MNTG_T2	0	0	0	0	0	0	0.4	0.35	0	0	0	0	0	0
8/3/2024 22:26	49803	UNIV_T1	1	1	0	5	4.8	-0.2	0	0	0	0	0	0	0	0
8/3/2024 22:26	52002	LING_T2	0	0	0	0	0	0	0.48	0.41	0	0	0	0	0	0
8/3/2024 22:26	59201	THOM_T1	4	0	-4	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/3/2024 22:26	59202	THOM_T1	17	0	-17	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/3/2024 22:26	56501	ROCK_T2	198	227	29	0.3	0.31	0.01	-3.95	-4.01	0	0	0	0	0	0
8/3/2024 22:26	45802	HEGI_T2	4	13	9	0.15	0.38	0.23	0.74	0.81	0	0	0	0	0	0
8/3/2024 22:26	53901	HALI_T2	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
8/3/2024 22:26	52004	LING_T2	2	2	0	4.3	4.15	-0.15	0	0	0	0	0	0	0	0
8/3/2024 22:26	46602	LACR_T1	1	1	0	0.2	0.2	0	-0.9	-0.91	0	0	0	0	0	0
8/3/2024 22:27	55002	NEWP_T1	5	5	0	0.78	0.94	0.16	0	0	0	0	0	0	0	0
8/3/2024 22:27	42701	AUGU_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/3/2024 22:27	51101	CARL_T1	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
8/3/2024 22:27	53902	HALI_T2	1	1	0	4.8	4.6	-0.2	-0.73	-0.69	0	0	0	0	0	0
8/3/2024 22:27	54203	PENN_T1	6	18	12	0.82	0.68	-0.14	0	0	0	0	0	0	0	0
8/3/2024 22:27	52004	LING_T2	2	2	0	4.3	4.15	-0.15	0	0	0	0	0	0	0	0
8/3/2024 22:27	51109	CARL_T1	0	0	0	0	0	0	-1.86	-1.86	1	1	0	1200	1200	0
8/3/2024 22:27	42802	SELI_T1	0	0	0	0	0	0	-1.93	-1.82	0	0	0	0	0	0
8/3/2024 22:27	53502	EVIL_T2	0	0	0	0	0	0	0.43	0.4	1	1	0	600	600	0
8/3/2024 22:27	53501	EVIL_T2	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
8/3/2024 22:27	51004	NHAR_T1	1	1	0	6.2	6.1	-0.1	-0.81	-0.83	0	0	0	0	0	0
8/3/2024 22:27	44201	POIN_T1	0	0	0	0	0	0	-1.58	-1.59	1	1	0	1200	1200	0
8/3/2024 22:27	58803	COCO_T1	1	1	0	0.4	1.3	0.9	-1.26	-1.3	1	1	0	600	600	0
8/3/2024 22:27	55101	WERT_T1	0	0	0	0	0	0	-1.77	-1.83	3	3	0	2400	2400	0
8/3/2024 22:27	22905	HARW_T1	18	21	3	1.52	0.3	-1.22	-0.46	-0.45	0	0	0	0	0	0
8/3/2024 22:27	57505	LAWN_T3	0	0	0	0	0	0	0.02	-0.04	0	0	0	0	0	0
8/3/2024 22:27	51702	OBER_T1	2	2	0	2.45	2.7	0.25	-1.62	-1.64	1	1	0	600	600	0
8/3/2024 22:27	42902	MIDD_T2	0	0	0	0	0	0	-1.17	-1.18	1	1	0	600	600	0
8/3/2024 22:27	57702	PAXT_T1	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
8/3/2024 22:27	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 22:27	57704	PAXT_T2	0	0	0	0	0	0	-0.38	-0.43	1	1	0	900	900	0
8/3/2024 22:27	43103	SMIL_T2	4	9	5	0.25	0.32	0.07	0	0	0	0	0	0	0	0
8/3/2024 22:27	56501	ROCK_T2	198	227	29	0.3	0.31	0.01	-3.95	-4.01	0	0	0	0	0	0
8/3/2024 22:27	58401	MORO_T1	0	0	0	0	0	0	-0.62	-0.61	1	1	0	600	600	0
8/3/2024 22:27	52002	LING_T2	0	0	0	0	0	0	0.48	0.41	0	0	0	0	0	0
8/3/2024 22:27	57502	LAWN_T3	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
8/3/2024 22:27	54201	PENN_T1	7	25	18	0.84	0.46	-0.38	-1.82	-1.83	0	0	0	0	0	0
8/3/2024 22:27	53802	MBRG_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/3/2024 22:27	52204	DEVO_T2	5	4	-1	1.36	1.03	-0.33	0	0	0	0	0	0	0	0
8/3/2024 22:27	56504	ROCK_T2	0	0	0	0	0	0	-0.82	0.07	0	0	0	0	0	0
8/3/2024 22:27	43104	SMIL_T2	0	0	0	0	0	0	-0.55	-0.57	1	1	0	300	300	0
8/3/2024 22:27	51002	NHAR_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
8/3/2024 22:27	52202	DEVO_T2	0	0	0	0	0	0	-0.87	-0.88	0	0	0	0	0	0
8/3/2024 22:27	53903	HALI_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
8/3/2024 22:27	53801	MBRG_T2	1	24	23	0.1	0.11	0.01	0	0	0	0	0	0	0	0
8/3/2024 22:27	46001	BERW_T1	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
8/3/2024 22:27	51003	NHAR_T1	0	0	0	0	0	0	-1.96	-2.04	1	1	0	1200	1200	0
8/3/2024 22:27	47401	PENS_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
8/3/2024 22:27	55001	NEWP_T1	0	0	0	0	0	0	-0.59	-0.59	1	1	0	600	600	0
8/3/2024 22:28	59101	WALK_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
8/3/2024 22:28	53501	EVIL_T2	1	1	0	0.7	0.1	-0.6	-0.28	-0.21	0	0	0	0	0	0
8/3/2024 22:28	59202	THOM_T1	17	0	-17	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/3/2024 22:28	58705	ROSE_T2	4	4	0	0.65	0.93	0.28	0	0	0	0	0	0	0	0
8/3/2024 22:28	53903	HALI_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
8/3/2024 22:28	55001	NEWP_T1	0	0	0	0	0	0	-0.59	-0.59	1	1	0	600	600	0
8/3/2024 22:28	43802	SWIL_T1	0	0	0	0	0	0	0.18	0.16	1	1	0	600	600	0
8/3/2024 22:28	43104	SMIL_T2	0	0	0	0	0	0	-0.55	-0.57	1	1	0	300	300	0
8/3/2024 22:28	53902	HALI_T2	1	1	0	4.8	4.6	-0.2	0	0	0	0	0	0	0	0
8/3/2024 22:28	52204	DEVO_T2	5	4	-1	1.36	1.03	-0.33	0	0	0	0	0	0	0	0
8/3/2024 22:28	43801	SWIL_T1	9	11	2	0.78	0.72	-0.06	0	0	0	0	0	0	0	0
8/3/2024 22:28	52202	DEVO_T2	0	0	0	0	0	0	-0.87	-0.88	0	0	0	0	0	0
8/3/2024 22:28	57602	RUTH_T2	0	0	0	0	0	0	-0.3	-0.36	0	0	0	0	0	0
8/3/2024 22:28	43103	SMIL_T2	4	9	5	0.25	0.32	0.07	0	0	0	0	0	0	0	0
8/3/2024 22:28	42902	MIDD_T2	0	0	0	0	0	0	-2.33	-2.37	2	2	0	1200	1200	0
8/3/2024 22:28	55101	WERT_T1	0	0	0	0	0	0	-1.77	-1.83	3	3	0	2400	2400	0
8/3/2024 22:28	40101	HUNT_T2	0	1	1	0	0	0	-1.05	-1.04	0	0	0	0	0	0
8/3/2024 22:28	58701	ROSE_T2	0	0	0	0	0	0	-0.61	-0.64	1	1	0	600	600	0
8/3/2024 22:28	51202	MTON_T2	0	0	0	0	0	0	-0.86	-0.85	1	1	0	1200	1200	0
8/3/2024 22:28	58702	ROSE_T2	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
8/3/2024 22:28	59201	THOM_T1	4	0	-4	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/3/2024 22:28	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 22:28	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/3/2024 22:28	52403	GRPA_T2	2	3	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/3/2024 22:28	58706	ROSE_T2	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
8/3/2024 22:28	55002	NEWP_T1	5	5	0	0.78	0.94	0.16	0	0	0	0	0	0	0	0
8/3/2024 22:28	52402	GRPA_T2	0	0	0	0	0	0	-0.55	-0.6	0	0	0	0	0	0
8/3/2024 22:28	56501	ROCK_T2	198	227	29	0.3	0.31	0.01	-5.92	-6.01	0	0	0	0	0	0
8/3/2024 22:28	53901	HALI_T2	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
8/3/2024 22:28	42801	SELI_T1	0	0	0	0	0	0	-1.08	-1.1	1	1	0	1200	1200	0
8/3/2024 22:28	46801	HEPB_T2	2	3	1	0.25	0.43	0.18	0.84	0.83	0	0	0	0	0	0
8/3/2024 22:28	57501	LAWN_T3	0	0	0	0	0	0	-2.89	-3.01	0	0	0	0	0	0
8/3/2024 22:29	43103	SMIL_T2	4	9	5	0.25	0.32	0.07	0	0	0	0	0	0	0	0
8/3/2024 22:29	47502	NECO_T1	1	3	2	0.9	0.37	-0.53	0.81	0.82	0	0	0	0	0	0
8/3/2024 22:29	55001	NEWP_T1	0	0	0	0	0	0	-1.17	-1.18	2	2	0	1200	1200	0
8/3/2024 22:29	57106	SPHI_T2	3	3	0	0.33	0.93	0.6	0	0	0	0	0	0	0	0
8/3/2024 22:29	57502	LAWN_T3	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
8/3/2024 22:29	56501	ROCK_T2	198	227	29	0.3	0.31	0.01	-1.97	-2	0	0	0	0	0	0
8/3/2024 22:29	55002	NEWP_T1	5	5	0	0.78	0.94	0.16	0	0	0	0	0	0	0	0
8/3/2024 22:29	52403	GRPA_T2	2	3	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/3/2024 22:29	50502	MECH_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
8/3/2024 22:29	50501	MECH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/3/2024 22:29	42802	SELI_T1	0	0	0	0	0	0	-0.96	-0.91	0	0	0	0	0	0
8/3/2024 22:29	58401	MORO_T1	0	0	0	0	0	0	-1.85	-1.83	3	3	0	1800	1800	0
8/3/2024 22:29	53902	HALI_T2	1	1	0	4.8	4.6	-0.2	-0.73	-0.69	0	0	0	0	0	0
8/3/2024 22:29	53903	HALI_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
8/3/2024 22:29	52401	GRPA_T2	0	1	1	0	0.2	0.2	-0.34	-0.32	0	0	0	0	0	0
8/3/2024 22:29	51101	CARL_T1	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
8/3/2024 22:29	51109	CARL_T1	0	0	0	0	0	0	-3.73	-3.73	2	2	0	2400	2400	0
8/3/2024 22:29	57104	SPHI_T2	0	0	0	0	0	0	-1.41	-1.43	1	1	0	900	900	0
8/3/2024 22:29	50506	MECH_T1	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
8/3/2024 22:29	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/3/2024 22:29	53501	EVIL_T2	1	1	0	0.7	0.1	-0.6	-0.28	-0.21	0	0	0	0	0	0
8/3/2024 22:29	43101	SMIL_T2	0	0	0	0	0	0	-0.61	-0.65	0	0	0	0	0	0
8/3/2024 22:29	43104	SMIL_T2	0	0	0	0	0	0	-0.55	-0.57	1	1	0	300	300	0
8/3/2024 22:30	42802	SELI_T1	0	0	0	0	0	0	-0.96	-0.91	0	0	0	0	0	0
8/3/2024 22:30	55101	WERT_T1	0	0	0	0	0	0	-1.77	-1.83	3	3	0	2400	2400	0
8/3/2024 22:30	53901	HALI_T2	0	0	0	0	0	0	-2.04	-2.06	0	0	0	0	0	0
8/3/2024 22:30	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/3/2024 22:30	53902	HALI_T2	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0	0
8/3/2024 22:30	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 22:30	56501	ROCK_T2	223	152	-71	0.32	0.26	-0.06	-1.97	-2	0	0	0	0	0	0
8/3/2024 22:30	42903	MIDD_T2	0	0	0	0	0	0	-0.08	-0.18	0	0	0	0	0	0
8/3/2024 22:30	52403	GRPA_T2	2	3	1	0.6	0.9	0.3	-0.63	-0.65	0	0	0	0	0	0
8/3/2024 22:30	54701	NEBL_T1	1	1	0	1.5	1.3	-0.2	0	0	1	1	0	600	600	0
8/3/2024 22:30	47502	NECO_T1	3	11	8	0.37	0.2	-0.17	0.81	0.82	0	0	0	0	0	0
8/3/2024 22:30	53903	HALI_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
8/3/2024 22:30	59101	WALK_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
8/3/2024 22:30	44301	BEAV_T2	0	0	0	0	0	0	-0.94	-0.94	1	1	0	600	600	0
8/3/2024 22:31	42902	MIDD_T2	0	0	0	0	0	0	-2.33	-2.37	2	2	0	1200	1200	0
8/3/2024 22:31	53801	MBRG_T2	0	31	31	0	0.14	0.14	0	0	0	0	0	0	0	0
8/3/2024 22:31	57304	MOAL_T2	0	0	0	0	0	0	-0.31	-0.41	0	0	0	0	0	0
8/3/2024 22:31	52401	GRPA_T2	0	1	1	0	0.5	0.5	-0.34	-0.32	0	0	0	0	0	0
8/3/2024 22:31	43104	SMIL_T2	0	0	0	0	0	0	-0.55	-0.57	1	1	0	300	300	0
8/3/2024 22:31	57303	MOAL_T2	1	1	0	8.3	7.9	-0.4	0	0	0	0	0	0	0	0
8/3/2024 22:31	42802	SELI_T1	0	0	0	0	0	0	-0.96	-0.91	0	0	0	0	0	0
8/3/2024 22:31	46901	MNTG_T2	0	0	0	0	0	0	0.4	0.35	0	0	0	0	0	0
8/3/2024 22:31	43103	SMIL_T2	9	4	-5	0.32	0.4	0.08	0	0	0	0	0	0	0	0
8/3/2024 22:31	53802	MBRG_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
8/3/2024 22:31	44302	BEAV_T2	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
8/3/2024 22:31	57306	MOAL_T2	0	0	0	0	0	0	-2.8	-2.81	1	1	0	1200	1200	0
8/3/2024 22:31	52403	GRPA_T2	2	3	1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
8/3/2024 22:32	59101	WALK_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
8/3/2024 22:32	41002	LAUR_T2	6	26	20	0.58	0.3	-0.28	0.07	0.03	0	0	0	0	0	0
8/3/2024 22:32	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	-0.28	-0.21	0	0	0	0	0	0
8/3/2024 22:32	44302	BEAV_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
8/3/2024 22:32	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/3/2024 22:32	52403	GRPA_T2	2	3	1	0.6	0.9	0.3	-0.63	-0.65	0	0	0	0	0	0
8/3/2024 22:33	53801	MBRG_T2	0	31	31	0	0.14	0.14	0	0	0	0	0	0	0	0
8/3/2024 22:33	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/3/2024 22:33	52403	GRPA_T2	2	3	1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
8/3/2024 22:33	53802	MBRG_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
8/3/2024 22:33	44301	BEAV_T2	0	0	0	0	0	0	-0.94	-0.94	1	1	0	600	600	0
8/3/2024 22:33	64101	REFR_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
8/3/2024 22:33	52402	GRPA_T2	0	0	0	0	0	0	-0.55	-0.6	0	0	0	0	0	0
8/3/2024 22:34	55001	NEWP_T1	0	0	0	0	0	0	-0.59	-0.59	1	1	0	600	600	0
8/3/2024 22:34	44302	BEAV_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
8/3/2024 22:34	55002	NEWP_T1	5	6	1	0.92	1.02	0.1	0	0	0	0	0	0	0	0
8/3/2024 22:36	53802	MBRG_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
8/3/2024 22:36	53801	MBRG_T2	0	31	31	0	0.14	0.14	0	0	0	0	0	0	0	0
8/3/2024 22:36	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/3/2024 22:36	59101	WALK_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
8/3/2024 22:37	55001	NEWP_T1	0	0	0	0	0	0	-0.59	-0.58	1	1	0	600	600	0
8/3/2024 22:37	55002	NEWP_T1	5	6	1	0.92	1.02	0.1	0	0	0	0	0	0	0	0
8/3/2024 22:40	58706	ROSE_T2	1	1	0	0.8	1.7	0.9	0	0	0	0	0	0	0	0
8/3/2024 22:40	58705	ROSE_T2	4	4	0	0.93	0.93	0	0	0	0	0	0	0	0	0
8/3/2024 22:40	58702	ROSE_T2	0	0	0	0	0	0	-2.07	-2.18	0	0	0	0	0	0
8/3/2024 22:44	27502	WEIS_T2	0	0	0	0	0	0	-0.34	-0.39	0	0	0	0	0	0
8/3/2024 22:51	66001	RHEE_T2	0	0	0	0	0	0	-1.64	-1.65	2	2	0	2100	2100	0
8/3/2024 22:53	63301	GREE_T1	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
8/3/2024 22:53	63305	GREE_T1	1	4	3	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/3/2024 22:53	63306	GREE_T1	0	14	14	0	0.11	0.11	0	0	0	0	0	0	0	0
8/3/2024 22:53	63304	GREE_T1	0	69	69	0	0.12	0.12	-1.32	-1.37	0	0	0	0	0	0
8/3/2024 23:18	46102	MACI_T1	0	0	0	0	0	0	0.8	0.78	0	0	0	0	0	0
8/3/2024 23:49	62102	ELAN_T1	0	1	1	0	0	0	1.15	0.99	0	0	0	0	0	0
8/4/2024 0:00	57501	LAWN_T3	0	0	0	0	0	0	-1.55	-1.63	0	0	0	0	0	0
8/4/2024 1:06	65901	SAKR_T2	1	1	0	8.5	8.7	0.2	-1.02	-1.07	1	1	0	900	900	0
8/4/2024 3:10	65604	QVIL_T2	15	16	1	0.48	0.42	-0.06	0	0	0	0	0	0	0	0
8/4/2024 3:10	65602	QVIL_T2	33	36	3	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
8/4/2024 3:10	65603	QVIL_T2	583	592	9	0.57	0.59	0.02	0.3	0.3	0	0	0	0	0	0
8/4/2024 3:10	65601	QVIL_T2	399	402	3	0.59	0.62	0.03	0	0	0	0	0	0	0	0
8/4/2024 7:44	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
8/4/2024 7:57	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/4/2024 7:57	29402	BELT_T1	2	1	-1	4.6	9	4.4	0	0	0	0	0	0	0	0
8/4/2024 8:11	15603	NSTR_T2	0	0	0	0	0	0	-0.59	-0.54	0	0	0	0	0	0
8/4/2024 8:21	64203	KINZ_T1	0	0	0	0	0	0	0.47	0.41	0	0	0	0	0	0
8/4/2024 8:21	64201	KINZ_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
8/4/2024 8:21	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/4/2024 8:24	64902	MILL_T2	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
8/4/2024 8:26	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/4/2024 8:27	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/4/2024 8:28	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/4/2024 8:29	64902	MILL_T2	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
8/4/2024 8:31	20603	GRWO_T2	0	0	0	0	0	0	-0.44	-0.4	1	1	0	900	900	0
8/4/2024 8:31	20601	GRWO_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/4/2024 8:32	46101	MACI_T2	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
8/4/2024 8:33	65603	QVIL_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
8/4/2024 8:34	65603	QVIL_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
8/4/2024 8:41	42503	ALTA_T2	0	0	0	0	0	0	-0.57	-0.55	0	0	0	0	0	0
8/4/2024 8:43	63305	GREE_T1	14	4	-10	0.22	0.28	0.06	-1.94	-1.92	1	1	0	900	900	0
8/4/2024 8:43	63303	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 8:45	63305	GREE_T1	4	7	3	0.28	0.23	-0.05	-1.94	-1.92	1	1	0	900	900	0
8/4/2024 8:51	16504	STRO_T1	0	0	0	0	0	0	0.99	0.95	0	0	0	0	0	0
8/4/2024 8:51	46302	ROHR_T1	2	2	0	1.5	1.35	-0.15	0.6	0.65	0	0	0	0	0	0
8/4/2024 8:53	16504	STRO_T1	0	0	0	0	0	0	0.99	0.95	0	0	0	0	0	0
8/4/2024 8:57	29402	BELT_T1	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
8/4/2024 9:09	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 9:10	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 9:14	63501	HEID_TBK1-2	47	48	1	1.14	1.12	-0.02	-0.07	0.06	1	1	0	900	900	0
8/4/2024 9:15	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/4/2024 9:16	13503	MCMI_T2	29	31	2	0.14	0.16	0.02	-0.8	-0.78	0	0	0	0	0	0
8/4/2024 9:21	42601	TUSC_T1	0	2	2	0	0.2	0.2	-0.18	-0.15	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/4/2024 9:23	42601	TUSC_T1	0	2	2	0	0.2	0.2	-0.15	-0.21	2	2	0	1800	1800	0
8/4/2024 9:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	1	1	0	900	900
8/4/2024 9:28	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	1	1	0	900	900
8/4/2024 9:28	26704	HEML_T2	6	12	6	0.12	0.1	-0.02	-0.62	-0.65	1	1	0	1200	1200	0
8/4/2024 9:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	1	1	0	900	900
8/4/2024 9:29	46802	HEPB_T1	0	0	0	0	0	0	-0.14	-0.09	0	0	0	0	0	0
8/4/2024 9:37	43101	SMIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/4/2024 9:37	43108	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/4/2024 9:37	43103	SMIL_T2	0	0	0	0	0	0	-1.73	-1.69	0	0	0	0	0	0
8/4/2024 9:38	41901	REED_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/4/2024 9:38	41902	REED_T1	5	30	25	0.38	0.69	0.31	1.15	1.15	0	0	0	0	0	0
8/4/2024 9:39	43101	SMIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/4/2024 9:39	43103	SMIL_T2	0	0	0	0	0	0	-1.73	-1.69	0	0	0	0	0	0
8/4/2024 9:39	43108	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/4/2024 9:40	44301	BEAV_T2	0	0	0	0	0	0	-1.24	-1.23	1	1	0	600	600	0
8/4/2024 9:42	44301	BEAV_T2	0	0	0	0	0	0	-1.24	-1.23	1	1	0	600	600	0
8/4/2024 9:43	46803	HEPB_T2	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
8/4/2024 9:43	42302	MOWR_T2	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
8/4/2024 9:43	53601	DALM_T2	1	2	1	0.1	0.2	0.1	-0.04	-0.03	0	0	0	0	0	0
8/4/2024 9:43	46801	HEPB_T2	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
8/4/2024 9:43	42301	MOWR_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/4/2024 9:43	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 9:46	42801	SELI_T1	0	0	0	0	0	0	-0.87	-0.86	1	1	0	1200	1200	0
8/4/2024 9:48	44203	POIN_T2	3	3	0	0.7	0	-0.7	0.05	-0.04	1	1	0	900	900	0
8/4/2024 9:48	13503	MCMI_T2	5	9	4	0.18	0.24	0.06	-1.48	-1.52	0	0	0	0	0	0
8/4/2024 9:59	61802	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 9:59	45501	DERR_T2	0	0	0	0	0	0	-0.54	-0.38	4	4	0	3600	3600	0
8/4/2024 9:59	61801	EELI_T2	0	0	0	0	0	0	-0.42	-0.42	1	1	0	600	600	0
8/4/2024 10:00	67503	WEWI_T2	1	1	0	5.8	5.4	-0.4	-0.42	-0.41	0	0	0	0	0	0
8/4/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
8/4/2024 10:00	65603	QVIL_T2	0	1	1	0	0.3	0.3	0.35	0.36	0	0	0	0	0	0
8/4/2024 10:00	56501	ROCK_T2	1	1	0	1.2	1	-0.2	-2.66	-2.52	0	0	0	0	0	0
8/4/2024 10:00	46506	LOHA_T1	8	4	-4	0.28	0.2	-0.08	-1.82	-1.79	2	2	0	2100	2100	0
8/4/2024 10:00	40505	CRES_T1	3	3	0	4.2	4.13	-0.07	0.62	0.64	0	0	0	0	0	0
8/4/2024 10:00	46501	LOHA_T1	1	0	-1	4.5	0	-4.5	0	0	0	0	0	0	0	0
8/4/2024 10:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 10:00	46602	LACR_T1	0	1	1	0	0.2	0.2	-0.78	-0.74	0	0	0	0	0	0
8/4/2024 10:00	60103	COCA_T2	0	0	0	0	0	0	-0.65	-0.49	2	2	0	2100	2100	0
8/4/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.63	0.65	0	0	0	0	0	0
8/4/2024 10:04	41002	LAUR_T2	3	4	1	0.5	0.48	-0.02	0.28	0.33	0	0	0	0	0	0
8/4/2024 10:05	46101	MACI_T2	0	0	0	0	0	0	0.5	0.54	0	0	0	0	0	0
8/4/2024 10:06	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 10:07	15703	TANN_T2	1	1	0	6.1	6.4	0.3	0	0	0	0	0	0	0	0
8/4/2024 10:07	65603	QVIL_T2	0	1	1	0	0.3	0.3	0.36	0.34	0	0	0	0	0	0
8/4/2024 10:07	15702	TANN_T2	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
8/4/2024 10:08	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 10:08	15702	TANN_T2	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
8/4/2024 10:08	15703	TANN_T2	1	1	0	6.1	6.4	0.3	0	0	0	0	0	0	0	0
8/4/2024 10:09	53601	DALM_T2	2	2	0	0.2	0.5	0.3	-0.01	-0.03	0	0	0	0	0	0
8/4/2024 10:09	43108	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/4/2024 10:09	43103	SMIL_T2	0	0	0	0	0	0	-1.66	-1.66	0	0	0	0	0	0
8/4/2024 10:09	20401	ASHF_T2	2	4	2	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
8/4/2024 10:09	40201	BEGA_T2	1	3	2	1.6	0.3	-1.3	0	0	0	0	0	0	0	0
8/4/2024 10:09	20403	ASHF_T2	0	3	3	0	0	0	0.65	0.69	0	0	0	0	0	0
8/4/2024 10:09	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 10:10	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 10:10	15702	TANN_T2	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
8/4/2024 10:10	42503	ALTA_T2	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
8/4/2024 10:10	43103	SMIL_T2	0	0	0	0	0	0	-1.66	-1.66	0	0	0	0	0	0
8/4/2024 10:10	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 10:10	15703	TANN_T2	1	1	0	6.1	6.4	0.3	0	0	0	0	0	0	0	0
8/4/2024 10:10	45501	DERR_T2	0	0	0	0	0	0	-0.19	-0.19	2	2	0	1800	1800	0
8/4/2024 10:10	43108	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/4/2024 10:10	45502	DERR_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
8/4/2024 10:12	40201	BEGA_T2	1	3	2	1.6	0.3	-1.3	0	0	0	0	0	0	0	0
8/4/2024 10:13	63305	GREE_T1	1	1	0	0.1	0.1	0	-1.91	-1.87	1	1	0	900	900	0
8/4/2024 10:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/4/2024 10:13	29402	BELT_T1	3	4	1	2.37	4.3	1.93	0	0	0	0	0	0	0	0
8/4/2024 10:14	52402	GRPA_T2	2	1	-1	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/4/2024 10:14	63401	HONY_T1	0	0	0	0	0	0	0.66	0.53	0	0	0	0	0	0
8/4/2024 10:14	52401	GRPA_T2	1	10	9	0.2	0.63	0.43	-0.33	-0.36	0	0	0	0	0	0
8/4/2024 10:14	45501	DERR_T2	0	0	0	0	0	0	-0.19	-0.19	2	2	0	1800	1800	0
8/4/2024 10:14	52403	GRPA_T2	13	15	2	0.55	0.61	0.06	0	0	0	0	0	0	0	0
8/4/2024 10:14	52404	GRPA_T2	0	0	0	0	0	0	-0.58	-0.52	0	0	0	0	0	0
8/4/2024 10:14	63305	GREE_T1	1	1	0	0.1	0.1	0	-1.91	-1.87	1	1	0	900	900	0
8/4/2024 10:15	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 10:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 10:16	52004	LING_T2	2	2	0	3.35	3.5	0.15	0	0	0	0	0	0	0	0
8/4/2024 10:16	52002	LING_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
8/4/2024 10:17	63401	HONY_T1	0	0	0	0	0	0	0.66	0.53	0	0	0	0	0	0
8/4/2024 10:17	52004	LING_T2	2	2	0	3.35	3.5	0.15	0	0	0	0	0	0	0	0
8/4/2024 10:17	52002	LING_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
8/4/2024 10:18	46102	MACI_T1	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
8/4/2024 10:19	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 10:19	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 10:19	46506	LOHA_T1	1	4	3	0.2	0.2	0	-1.79	-1.73	2	2	0	2100	2100	0
8/4/2024 10:20	46506	LOHA_T1	1	4	3	0.2	0.2	0	-1.79	-1.73	2	2	0	2100	2100	0
8/4/2024 10:20	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 10:20	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 10:20	44203	POIN_T2	0	3	3	0	0	0	0.03	0.02	1	1	0	900	900	0
8/4/2024 10:21	52002	LING_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
8/4/2024 10:21	20601	GRWO_T2	18	79	61	0.44	0.58	0.14	0.86	0.93	0	0	0	0	0	0
8/4/2024 10:21	52004	LING_T2	2	2	0	3.35	3.5	0.15	0	0	0	0	0	0	0	0
8/4/2024 10:22	64201	KINZ_T1	1	1	0	0.8	0.4	-0.4	-0.42	-0.47	3	3	0	1500	1500	0
8/4/2024 10:22	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/4/2024 10:22	64203	KINZ_T1	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
8/4/2024 10:23	46506	LOHA_T1	1	4	3	0.2	0.2	0	-1.73	-1.73	2	2	0	2100	2100	0
8/4/2024 10:23	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 10:24	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 10:24	46002	BERW_T2	0	0	0	0	0	0	-1.54	-1.48	1	1	0	900	900	0
8/4/2024 10:25	20403	ASHF_T2	0	3	3	0	0.75	0.75	0.69	0.76	0	0	0	0	0	0
8/4/2024 10:25	20401	ASHF_T2	4	4	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
8/4/2024 10:27	20601	GRWO_T2	18	79	61	0.44	0.58	0.14	0	0	0	0	0	0	0	0
8/4/2024 10:27	20603	GRWO_T2	0	0	0	0	0	0	-0.38	-0.37	1	1	0	900	900	0
8/4/2024 10:28	45501	DERR_T2	0	0	0	0	0	0	-0.19	-0.17	2	2	0	1800	1800	0
8/4/2024 10:32	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 10:32	46801	HEPB_T1	0	0	0	0	0	0	-0.03	0.02	0	0	0	0	0	0
8/4/2024 10:33	46801	HEPB_T2	2	2	0	1.05	0.9	-0.15	0.09	0.11	0	0	0	0	0	0
8/4/2024 10:33	55002	NEWP_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/4/2024 10:33	46803	HEPB_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/4/2024 10:33	55001	NEWP_T1	0	4	4	0	0.25	0.25	-0.88	-1.02	2	2	0	1200	1200	0
8/4/2024 10:34	65205	PRIN_T1	1	1	0	1.6	1.3	-0.3	0	0	0	0	0	0	0	0
8/4/2024 10:35	40101	HUNT_T2	4	10	6	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
8/4/2024 10:36	46302	ROHR_T1	4	4	0	0.45	0.58	0.13	0.36	0.37	0	0	0	0	0	0
8/4/2024 10:36	16402	MOPO_T1	1	4	3	0.2	0.5	0.3	0.43	0.44	0	0	0	0	0	0
8/4/2024 10:36	55001	NEWP_T1	0	4	4	0	0.25	0.25	-0.44	-0.51	1	1	0	600	600	0
8/4/2024 10:36	55002	NEWP_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/4/2024 10:38	20401	ASHF_T2	4	4	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
8/4/2024 10:38	20403	ASHF_T2	3	2	-1	0.77	0.3	-0.47	0.76	0.73	0	0	0	0	0	0
8/4/2024 10:39	55002	NEWP_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/4/2024 10:39	55001	NEWP_T1	0	4	4	0	0.25	0.25	-0.51	-0.46	1	1	0	600	600	0
8/4/2024 10:40	29402	BELT_T1	3	67	64	3.1	0.83	-2.27	0	0	0	0	0	0	0	0
8/4/2024 10:41	41602	CLEV_T1	62	74	12	0.63	0.53	-0.1	0	0	1	1	0	600	600	0
8/4/2024 10:42	51902	COPA_T1	0	0	0	0	0	0	-1.36	-1.31	1	1	0	1200	1200	0
8/4/2024 10:42	51904	COPA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/4/2024 10:44	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/4/2024 10:44	29402	BELT_T1	3	67	64	3.1	0.83	-2.27	0	0	0	0	0	0	0	0
8/4/2024 10:46	52006	LING_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 10:46	52004	LING_T2	2	3	1	3.4	3.85	0.45	0	0	0	0	0	0	0	0
8/4/2024 10:50	52006	LING_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 10:50	52004	LING_T2	2	3	1	3.4	3.85	0.45	0	0	0	0	0	0	0	0
8/4/2024 10:50	13503	MCMI_T2	0	3	3	0	0.53	0.53	-0.7	-0.65	0	0	0	0	0	0
8/4/2024 10:52	44202	POIN_T2	1	0	-1	4.2	0	-4.2	0	0	0	0	0	0	0	0
8/4/2024 10:52	65603	QVIL_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/4/2024 10:52	65604	QVIL_T2	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
8/4/2024 10:52	44203	POIN_T2	3	5	2	0.37	1.52	1.15	0.3	0.25	2	2	0	1800	1800	0
8/4/2024 10:52	46302	ROHR_T1	2	5	3	0.8	0.6	-0.2	0.4	0.4	0	0	0	0	0	0
8/4/2024 10:53	56504	ROCK_T2	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
8/4/2024 10:53	56501	ROCK_T2	1	3	2	1.1	0.13	-0.97	0	0	0	0	0	0	0	0
8/4/2024 10:54	20403	ASHF_T2	2	1	-1	0.9	0	-0.9	0.73	0.85	0	0	0	0	0	0
8/4/2024 10:54	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 10:54	20401	ASHF_T2	4	5	1	0.88	0.7	-0.18	0	0	0	0	0	0	0	0
8/4/2024 10:56	46203	DANV_T2	0	0	0	0	0	0	-1.51	-1.51	0	0	0	0	0	0
8/4/2024 10:56	46206	DANV_T2	1	3	2	0.8	0.85	0.05	0	0	0	0	0	0	0	0
8/4/2024 10:56	46204	DANV_T2	2	3	1	1.75	0	-1.75	0	0	0	0	0	0	0	0
8/4/2024 10:57	45501	DERR_T2	0	0	0	0	0	0	-0.24	-0.15	2	2	0	1800	1800	0
8/4/2024 10:58	20403	ASHF_T2	2	1	-1	0.9	0	-0.9	0.73	0.85	0	0	0	0	0	0
8/4/2024 10:58	29402	BELT_T1	67	47	-20	0.81	0.88	0.07	0	0	0	0	0	0	0	0
8/4/2024 10:58	20401	ASHF_T2	4	5	1	0.88	0.7	-0.18	0	0	0	0	0	0	0	0
8/4/2024 10:58	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 10:59	63501	HEID_TBK1-2	49	48	-1	1.61	1.36	-0.25	0.06	0.08	1	1	0	900	900	0
8/4/2024 11:00	20601	GRWO_T2	87	115	28	0.75	0.73	-0.02	0.93	0.91	0	0	0	0	0	0
8/4/2024 11:00	22901	HARW_T1	9	10	1	0.21	0.38	0.17	-0.19	-0.41	1	1	0	1200	1200	0
8/4/2024 11:00	22903	HARW_T1	6	1	-5	0.17	0	-0.17	0	0	0	0	0	0	0	0
8/4/2024 11:00	22905	HARW_T1	1	10	9	0.2	1	0.8	0	0	0	0	0	0	0	0
8/4/2024 11:02	28805	LAKE_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
8/4/2024 11:05	56504	ROCK_T2	0	0	0	0	0	0	-1.32	-1.29	0	0	0	0	0	0
8/4/2024 11:05	56501	ROCK_T2	2	3	1	0.2	0.2	0	0	0	0	0	0	0	0	0
8/4/2024 11:06	56501	ROCK_T2	2	3	1	0.2	0.2	0	0	0	0	0	0	0	0	0
8/4/2024 11:06	44202	POIN_T2	0	0	0	0	0	0	-0.67	-0.63	1	1	0	1200	1200	0
8/4/2024 11:06	56504	ROCK_T2	0	0	0	0	0	0	-1.32	-1.29	0	0	0	0	0	0
8/4/2024 11:06	44203	POIN_T2	5	5	0	1.8	0.5	-1.3	0	0	0	0	0	0	0	0
8/4/2024 11:07	56504	ROCK_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/4/2024 11:07	57702	PAXT_T1	0	0	0	0	0	0	-0.45	-0.4	0	0	0	0	0	0
8/4/2024 11:07	56501	ROCK_T2	2	3	1	0.2	0.2	0	0	0	0	0	0	0	0	0
8/4/2024 11:10	46206	DANV_T2	2	4	2	0.85	1.2	0.35	0	0	0	0	0	0	0	0
8/4/2024 11:10	46204	DANV_T2	3	0	-3	0.73	0	-0.73	0	0	0	0	0	0	0	0
8/4/2024 11:10	46203	DANV_T2	0	0	0	0	0	0	-1.51	-1.52	0	0	0	0	0	0
8/4/2024 11:11	63601	LETO_T1	0	1	1	0	0.2	0.2	-0.02	0.01	2	2	0	2100	2100	0
8/4/2024 11:12	64305	LINC_T1	0	0	0	0	0	0	-0.43	-0.51	0	0	0	0	0	0
8/4/2024 11:13	67605	WARW_T1	0	0	0	0	0	0	-0.75	-0.72	0	0	0	0	0	0
8/4/2024 11:15	46204	DANV_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 11:15	46206	DANV_T2	3	4	1	1.2	1.47	0.27	0	0	0	0	0	0	0	0
8/4/2024 11:15	46203	DANV_T2	0	0	0	0	0	0	-1.51	-1.52	0	0	0	0	0	0
8/4/2024 11:17	13503	MCMI_T2	3	0	-3	0.53	0	-0.53	-1.3	-1.24	0	0	0	0	0	0
8/4/2024 11:18	40101	HUNT_T2	7	38	31	0.36	0.41	0.05	-0.29	-0.27	0	0	0	0	0	0
8/4/2024 11:19	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 11:26	20402	ASHF_T2	3	19	16	0.4	0.67	0.27	0	0	0	0	0	0	0	0
8/4/2024 11:26	20403	ASHF_T2	0	1	1	0	0	0	0.84	0.86	0	0	0	0	0	0
8/4/2024 11:26	20401	ASHF_T2	5	11	6	1.18	0.77	-0.41	0	0	0	0	0	0	0	0
8/4/2024 11:27	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/4/2024 11:27	63305	GREE_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 11:27	29402	BELT_T1	18	21	3	0.81	0.71	-0.1	0	0	0	0	0	0	0	0
8/4/2024 11:27	63304	GREE_T1	0	0	0	0	0	0	-2.27	-2.14	0	0	0	0	0	0
8/4/2024 11:28	20402	ASHF_T2	3	19	16	0.4	0.67	0.27	0	0	0	0	0	0	0	0
8/4/2024 11:28	20401	ASHF_T2	5	11	6	1.18	0.77	-0.41	0	0	0	0	0	0	0	0
8/4/2024 11:28	20403	ASHF_T2	0	1	1	0	0	0	0.84	0.86	0	0	0	0	0	0
8/4/2024 11:29	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
8/4/2024 11:29	41002	LAUR_T2	4	4	0	0.85	0.78	-0.07	0.37	0.37	0	0	0	0	0	0
8/4/2024 11:29	41001	LAUR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 11:34	56501	ROCK_T2	1	5	4	0.3	0.28	-0.02	-1.88	-1.83	0	0	0	0	0	0
8/4/2024 11:36	56501	ROCK_T2	1	5	4	0.3	0.28	-0.02	-3.76	-3.66	0	0	0	0	0	0
8/4/2024 11:37	56501	ROCK_T2	1	5	4	0.3	0.28	-0.02	-3.66	-3.59	0	0	0	0	0	0
8/4/2024 11:38	56501	ROCK_T2	1	5	4	0.3	0.28	-0.02	-3.66	-3.59	0	0	0	0	0	0
8/4/2024 11:39	54203	PENN_T1	5	5	0	0.24	0.14	-0.1	0	0	0	0	0	0	0	0
8/4/2024 11:39	54201	PENN_T1	3	3	0	0.97	0.7	-0.27	-1.75	-1.7	0	0	0	0	0	0
8/4/2024 11:40	20402	ASHF_T2	8	25	17	0.69	0.74	0.05	0	0	0	0	0	0	0	0
8/4/2024 11:40	20401	ASHF_T2	9	11	2	0.82	0.82	0	0	0	0	0	0	0	0	0
8/4/2024 11:40	20403	ASHF_T2	0	1	1	0	0.7	0.7	0.86	0.86	0	0	0	0	0	0
8/4/2024 11:41	61701	ELIZ_T1	2	2	0	2.65	1.55	-1.1	0	0	0	0	0	0	0	0
8/4/2024 11:41	61703	ELIZ_T1	0	0	0	0	0	0	-1.96	-2.07	2	2	0	2100	2100	0
8/4/2024 11:42	61703	ELIZ_T1	0	0	0	0	0	0	-1.96	-2.07	2	2	0	2100	2100	0
8/4/2024 11:42	61701	ELIZ_T1	2	2	0	2.65	1.55	-1.1	0	0	0	0	0	0	0	0
8/4/2024 11:43	61701	ELIZ_T1	2	2	0	2.65	1.55	-1.1	0	0	0	0	0	0	0	0
8/4/2024 11:43	61703	ELIZ_T1	0	0	0	0	0	0	-1.96	-2.07	2	2	0	2100	2100	0
8/4/2024 11:44	67605	WARW_T1	0	0	0	0	0	0	-0.68	-0.6	0	0	0	0	0	0
8/4/2024 11:45	41801	GOCI_T2	1	2	1	0.5	0.3	-0.2	0	0	1	1	0	900	900	0
8/4/2024 11:47	61701	ELIZ_T1	1	2	1	2.9	1.7	-1.2	0	0	0	0	0	0	0	0
8/4/2024 11:47	61703	ELIZ_T1	0	0	0	0	0	0	-1.96	-2.07	2	2	0	2100	2100	0
8/4/2024 11:49	41902	REED_T1	11	13	2	0.49	0.43	-0.06	0.84	0.82	0	0	0	0	0	0
8/4/2024 11:50	40901	JESH_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 11:50	40903	JESH_T1	0	5	5	0	0.35	0.35	0	0	0	0	0	0	0	0
8/4/2024 11:50	40902	JESH_T1	2	2	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/4/2024 11:51	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 11:53	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 11:54	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 11:54	20403	ASHF_T2	1	1	0	0.7	0.7	0	0.86	0.96	0	0	0	0	0	0
8/4/2024 11:54	20401	ASHF_T2	11	15	4	0.83	0.75	-0.08	0	0	0	0	0	0	0	0
8/4/2024 11:54	60902	DONG_T2	0	0	0	0	0	0	1.3	1.27	0	0	0	0	0	0
8/4/2024 11:54	20402	ASHF_T2	17	22	5	0.67	0.71	0.04	0	0	0	0	0	0	0	0
8/4/2024 11:54	60901	DONG_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
8/4/2024 11:55	46204	DANV_T2	4	11	7	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
8/4/2024 11:55	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 11:55	46206	DANV_T2	3	8	5	1.47	0.83	-0.64	0.02	-0.02	2	2	0	2100	2100	0
8/4/2024 11:56	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 11:56	40201	BEGA_T2	7	7	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
8/4/2024 11:56	46206	DANV_T2	3	8	5	1.47	0.83	-0.64	0.02	-0.02	2	2	0	2100	2100	0
8/4/2024 11:56	46204	DANV_T2	4	11	7	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
8/4/2024 11:57	40201	BEGA_T2	7	7	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
8/4/2024 11:58	44801	EDAN_T2	2	3	1	1.3	1.45	0.15	-1.27	-1.27	0	0	0	0	0	0
8/4/2024 11:59	64302	LINC_T2	3	4	1	0.57	0.63	0.06	1.21	1.25	0	0	0	0	0	0
8/4/2024 12:00	25503	MADI_T1	0	0	0	0	0	0	-0.56	-0.52	0	0	0	0	0	0
8/4/2024 12:00	25501	MADI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/4/2024 12:01	63403	HONY_T2	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
8/4/2024 12:01	63402	HONY_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/4/2024 12:03	51004	NHAR_T1	1	2	1	6.8	6.9	0.1	0	0	0	0	0	0	0	0
8/4/2024 12:03	51002	NHAR_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/4/2024 12:03	51003	NHAR_T1	0	0	0	0	0	0	-1.94	-1.96	1	1	0	1200	1200	0
8/4/2024 12:07	59202	THOM_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 12:07	42201	SHEN_T2	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
8/4/2024 12:11	44301	BEAV_T2	2	3	1	1.4	1.8	0.4	0	0	0	0	0	0	0	0
8/4/2024 12:11	59202	THOM_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 12:11	44302	BEAV_T2	3	9	6	0.53	0.64	0.11	0.36	0.35	0	0	0	0	0	0
8/4/2024 12:11	61002	DONV_T2	0	0	0	0	0	0	-0.61	0.05	2	1	-1	1200	600	-600
8/4/2024 12:14	67605	WARW_T1	0	0	0	0	0	0	-0.58	-0.26	0	0	0	0	0	0
8/4/2024 12:14	67603	WARW_T1	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
8/4/2024 12:16	40903	JESH_T1	5	5	0	0.78	0.2	-0.58	0	0	0	0	0	0	0	0
8/4/2024 12:16	40901	JESH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
8/4/2024 12:16	40902	JESH_T1	1	1	0	0.1	0	-0.1	-1.94	-1.91	3	3	0	1800	1800	0
8/4/2024 12:19	40901	JESH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
8/4/2024 12:19	40902	JESH_T1	1	1	0	0.1	0	-0.1	-1.94	-1.91	3	3	0	1800	1800	0
8/4/2024 12:19	52004	LING_T2	2	3	1	3.4	2.47	-0.93	0.07	0.13	0	0	0	0	0	0
8/4/2024 12:19	40903	JESH_T1	5	5	0	0.78	0.2	-0.58	0	0	0	0	0	0	0	0
8/4/2024 12:21	44203	POIN_T2	8	11	3	1.63	1.9	0.27	0	0	0	0	0	0	0	0
8/4/2024 12:21	44202	POIN_T2	0	1	1	0	0	0	-0.6	-0.58	1	1	0	1200	1200	0
8/4/2024 12:23	42201	SHEN_T2	0	0	0	0	0	0	0.79	0.8	0	0	0	0	0	0
8/4/2024 12:23	59202	THOM_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
8/4/2024 12:25	46206	DANV_T2	7	34	27	1.03	0.98	-0.05	0	0	0	0	0	0	0	0
8/4/2024 12:25	46204	DANV_T2	2	9	7	0.45	0.9	0.45	0	0	0	0	0	0	0	0
8/4/2024 12:25	42701	AUGU_T1	46	42	-4	0.56	0.51	-0.05	0	0	2	2	0	1800	1800	0
8/4/2024 12:25	59202	THOM_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
8/4/2024 12:25	46203	DANV_T2	0	0	0	0	0	0	-1.4	-1.35	0	0	0	0	0	0
8/4/2024 12:26	67605	WARW_T1	0	0	0	0	0	0	-0.26	-0.16	0	0	0	0	0	0
8/4/2024 12:26	64305	LINC_T1	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
8/4/2024 12:26	46204	DANV_T2	2	9	7	0.45	0.9	0.45	0	0	0	0	0	0	0	0
8/4/2024 12:26	46203	DANV_T2	0	0	0	0	0	0	-1.4	-1.35	0	0	0	0	0	0
8/4/2024 12:26	20402	ASHF_T2	10	19	9	0.66	0.25	-0.41	0	0	0	0	0	0	0	0
8/4/2024 12:26	46206	DANV_T2	7	34	27	1.03	0.98	-0.05	0	0	0	0	0	0	0	0
8/4/2024 12:26	20403	ASHF_T2	1	4	3	0.8	0.47	-0.33	0.95	1.05	0	0	0	0	0	0
8/4/2024 12:26	20401	ASHF_T2	15	20	5	0.61	0.77	0.16	0	0	0	0	0	0	0	0
8/4/2024 12:27	46203	DANV_T2	0	0	0	0	0	0	-1.4	-1.35	0	0	0	0	0	0
8/4/2024 12:27	46204	DANV_T2	2	9	7	0.45	0.9	0.45	0	0	0	0	0	0	0	0
8/4/2024 12:27	46206	DANV_T2	7	34	27	1.03	0.98	-0.05	0	0	0	0	0	0	0	0
8/4/2024 12:28	46203	DANV_T2	0	0	0	0	0	0	-1.4	-1.35	0	0	0	0	0	0
8/4/2024 12:28	46204	DANV_T2	2	9	7	0.45	0.9	0.45	0	0	0	0	0	0	0	0
8/4/2024 12:28	46206	DANV_T2	7	34	27	1.03	0.98	-0.05	0	0	0	0	0	0	0	0
8/4/2024 12:30	67605	WARW_T1	0	0	0	0	0	0	-0.26	-0.16	0	0	0	0	0	0
8/4/2024 12:31	26803	JAFR_T1	0	0	0	0	0	0	0.12	0.12	1	1	0	900	900	0
8/4/2024 12:31	42802	SELI_T1	0	0	0	0	0	0	-3.41	-3.35	2	2	0	1800	1800	0
8/4/2024 12:32	52001	LING_T1	0	0	0	0	0	0	-0.89	-0.89	0	0	0	0	0	0
8/4/2024 12:32	47001	HUGH_T2	3	4	1	7.27	7.63	0.36	-1.12	-1.1	1	1	0	900	900	0
8/4/2024 12:32	42802	SELI_T1	0	0	0	0	0	0	-3.41	-3.35	2	2	0	1800	1800	0
8/4/2024 12:33	42901	MIDD_T2	3	5	2	1.3	0.58	-0.72	0	0	0	0	0	0	0	0
8/4/2024 12:33	42802	SELI_T1	0	0	0	0	0	0	-3.41	-3.35	2	2	0	1800	1800	0
8/4/2024 12:33	42903	MIDD_T2	2	3	1	1	1.07	0.07	0	0	0	0	0	0	0	0
8/4/2024 12:33	42902	MIDD_T2	28	27	-1	1.45	2	0.55	-0.22	-0.2	0	0	0	0	0	0
8/4/2024 12:33	47001	HUGH_T2	3	4	1	7.27	7.63	0.36	-1.12	-1.1	1	1	0	900	900	0
8/4/2024 12:34	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 12:34	43202	MVIL_T2	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
8/4/2024 12:34	52001	LING_T1	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
8/4/2024 12:35	60502	NMAN_T2	0	0	0	0	0	0	0.3	0.36	0	0	0	0	0	0
8/4/2024 12:36	59101	WALK_T2	0	1	1	0	0	0	0.12	0.09	0	0	0	0	0	0
8/4/2024 12:36	42903	MIDD_T2	2	3	1	1	1.07	0.07	0.63	0.42	0	0	0	0	0	0
8/4/2024 12:36	42902	MIDD_T2	28	27	-1	1.45	2	0.55	0	0	0	0	0	0	0	0
8/4/2024 12:36	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 12:36	43202	MVIL_T2	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
8/4/2024 12:36	42901	MIDD_T2	3	5	2	1.3	0.58	-0.72	0	0	0	0	0	0	0	0
8/4/2024 12:37	65205	PRIN_T1	1	1	0	1.6	1.3	-0.3	0	0	0	0	0	0	0	0
8/4/2024 12:38	59202	THOM_T1	2	3	1	0.75	0.3	-0.45	0	0	0	0	0	0	0	0
8/4/2024 12:39	42701	AUGU_T1	29	58	29	0.54	0.49	-0.05	0	0	0	0	0	0	0	0
8/4/2024 12:40	41602	CLEV_T1	39	18	-21	0.44	0.37	-0.07	0	0	0	0	0	0	0	0
8/4/2024 12:40	41601	CLEV_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/4/2024 12:40	59202	THOM_T1	2	3	1	0.75	0.3	-0.45	0	0	0	0	0	0	0	0
8/4/2024 12:40	59101	WALK_T2	0	1	1	0	0	0	0.09	0.21	0	0	0	0	0	0
8/4/2024 12:41	40201	BEGA_T2	6	5	-1	0.9	1.27	0.37	0	0	0	0	0	0	0	0
8/4/2024 12:42	67602	WARW_T2	6	22	16	0.15	0.3	0.15	1.06	1.07	2	2	0	1500	1500	0
8/4/2024 12:42	24702	FLND_T2	12	0	-12	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/4/2024 12:42	24701	FLND_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
8/4/2024 12:42	42701	AUGU_T1	29	58	29	0.54	0.49	-0.05	0	0	2	2	0	1800	1800	0
8/4/2024 12:43	67602	WARW_T2	6	22	16	0.15	0.3	0.15	1.06	1.07	2	2	0	1500	1500	0
8/4/2024 12:46	67602	WARW_T2	8	29	21	0.35	0.34	-0.01	1.06	1.07	2	2	0	1500	1500	0
8/4/2024 12:46	51402	LYKE_T1	0	0	0	0	0	0	-1.93	-1.91	2	2	0	1200	1200	0
8/4/2024 12:46	64302	LINC_T2	2	7	5	1.35	1.17	-0.18	2.65	2.76	0	0	0	0	0	0
8/4/2024 12:47	41002	LAUR_T2	4	4	0	0.53	0.4	-0.13	0.12	0.12	0	0	0	0	0	0
8/4/2024 12:47	41001	LAUR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 12:48	41002	LAUR_T2	4	4	0	0.53	0.4	-0.13	0.12	0.12	0	0	0	0	0	0
8/4/2024 12:48	47001	HUGH_T2	3	4	1	7.5	7.33	-0.17	-1.1	-1.04	1	1	0	900	900	0
8/4/2024 12:48	41001	LAUR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 12:49	64101	REFR_T1	0	3	3	0	0.33	0.33	-0.03	-0.05	0	0	0	0	0	0
8/4/2024 12:50	64101	REFR_T1	0	3	3	0	0.33	0.33	-0.03	-0.05	0	0	0	0	0	0
8/4/2024 12:51	24201	PROV_T3	1	1	0	8.8	9	0.2	-0.74	-0.75	1	1	0	1200	1200	0
8/4/2024 12:51	64101	REFR_T1	0	3	3	0	0.33	0.33	-0.1	-0.07	0	0	0	0	0	0
8/4/2024 12:51	24204	PROV_T3	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
8/4/2024 12:53	64101	REFR_T1	0	3	3	0	0.33	0.33	-0.15	-0.11	0	0	0	0	0	0
8/4/2024 12:54	44302	BEAV_T2	12	24	12	0.58	0.33	-0.25	0	0	0	0	0	0	0	0
8/4/2024 12:54	44301	BEAV_T2	2	7	5	2.7	1.7	-1	-0.31	-0.31	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/4/2024 12:55	44301	BEAV_T2	2	7	5	2.7	1.7	-1	0	0	0	0	0	0	0	0
8/4/2024 12:55	64101	REFR_T1	0	3	3	0	0.33	0.33	-0.05	-0.04	0	0	0	0	0	0
8/4/2024 12:55	44302	BEAV_T2	12	24	12	0.58	0.33	-0.25	0.4	0.44	0	0	0	0	0	0
8/4/2024 12:56	44302	BEAV_T2	12	24	12	0.58	0.33	-0.25	0	0	0	0	0	0	0	0
8/4/2024 12:56	67602	WARW_T2	8	29	21	0.35	0.34	-0.01	1.07	1.08	2	2	0	1500	1500	0
8/4/2024 12:56	53902	HALI_T2	1	1	0	3.4	3.5	0.1	-0.59	-0.6	0	0	0	0	0	0
8/4/2024 12:56	44301	BEAV_T2	2	7	5	2.7	1.7	-1	-0.31	-0.31	0	0	0	0	0	0
8/4/2024 12:56	53901	HALI_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/4/2024 12:57	67602	WARW_T2	8	29	21	0.35	0.34	-0.01	1.07	1.08	2	2	0	1500	1500	0
8/4/2024 12:57	20402	ASHF_T2	16	48	32	0.33	0.46	0.13	0	0	0	0	0	0	0	0
8/4/2024 12:57	20403	ASHF_T2	3	3	0	1.53	0	-1.53	0.96	0.8	0	0	0	0	0	0
8/4/2024 12:57	20401	ASHF_T2	17	27	10	0.71	0.67	-0.04	0	0	0	0	0	0	0	0
8/4/2024 12:58	44301	BEAV_T2	2	7	5	2.7	1.7	-1	0	0	0	0	0	0	0	0
8/4/2024 12:58	46204	DANV_T2	5	14	9	1.02	1.05	0.03	0	0	0	0	0	0	0	0
8/4/2024 12:58	46206	DANV_T2	34	32	-2	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
8/4/2024 12:58	44302	BEAV_T2	12	24	12	0.58	0.33	-0.25	0.4	0.44	0	0	0	0	0	0
8/4/2024 12:58	46203	DANV_T2	0	1	1	0	0	0	-1.36	-2.25	0	0	0	0	0	0
8/4/2024 12:58	67602	WARW_T2	8	29	21	0.35	0.34	-0.01	1.07	1.08	2	2	0	1500	1500	0
8/4/2024 12:58	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 12:59	44302	BEAV_T2	12	24	12	0.58	0.33	-0.25	0.8	0.89	0	0	0	0	0	0
8/4/2024 12:59	44301	BEAV_T2	2	7	5	2.7	1.7	-1	0	0	0	0	0	0	0	0
8/4/2024 13:00	51401	LYKE_T1	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
8/4/2024 13:00	51402	LYKE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 13:00	64305	LINC_T1	1	1	0	0.1	0.5	0.4	-0.45	-0.34	0	0	0	0	0	0
8/4/2024 13:00	67602	WARW_T2	21	30	9	0.34	0.41	0.07	1.07	1.08	2	2	0	1500	1500	0
8/4/2024 13:00	67605	WARW_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
8/4/2024 13:03	40101	HUNT_T2	12	106	94	0.34	0.46	0.12	-0.16	-0.18	0	0	0	0	0	0
8/4/2024 13:03	58701	ROSE_T2	0	0	0	0	0	0	-1.66	-1.69	1	1	0	600	600	0
8/4/2024 13:03	58705	ROSE_T2	0	4	4	0	0.6	0.6	0	0	0	0	0	0	0	0
8/4/2024 13:03	58706	ROSE_T2	1	1	0	2.3	2.1	-0.2	0	0	0	0	0	0	0	0
8/4/2024 13:05	65001	NEFF_T2	0	0	0	0	0	0	-0.46	-0.39	1	1	0	1200	1200	0
8/4/2024 13:06	65901	SAKR_T2	1	1	0	5.9	5.7	-0.2	-0.56	-0.54	2	2	0	1500	1500	0
8/4/2024 13:08	43108	SMIL_T2	4	4	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/4/2024 13:08	43102	SMIL_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/4/2024 13:08	59202	THOM_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
8/4/2024 13:08	43104	SMIL_T2	3	2	-1	0.4	0	-0.4	-0.56	-0.63	2	2	0	600	600	0
8/4/2024 13:08	43101	SMIL_T2	2	9	7	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
8/4/2024 13:09	43104	SMIL_T2	3	2	-1	0.4	0	-0.4	-0.28	-0.32	1	1	0	300	300	0
8/4/2024 13:09	59202	THOM_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
8/4/2024 13:09	43108	SMIL_T2	4	4	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/4/2024 13:09	43101	SMIL_T2	2	9	7	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
8/4/2024 13:09	43102	SMIL_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/4/2024 13:09	61102	BERK_T5	0	0	0	0	0	0	0.45	0.47	1	1	0	300	300	0
8/4/2024 13:09	61101	BERK_T5	1	1	0	0.5	1.8	1.3	0	0	0	0	0	0	0	0
8/4/2024 13:09	42601	TUSC_T1	10	11	1	0.48	0	-0.48	0.04	0.08	2	2	0	1800	1800	0
8/4/2024 13:10	59202	THOM_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
8/4/2024 13:10	43101	SMIL_T2	2	9	7	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
8/4/2024 13:10	43104	SMIL_T2	3	2	-1	0.4	0	-0.4	-0.28	-0.32	1	1	0	300	300	0
8/4/2024 13:10	43108	SMIL_T2	4	4	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/4/2024 13:10	43102	SMIL_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/4/2024 13:11	59102	WALK_T2	0	0	0	0	0	0	-0.03	0.02	1	1	0	600	600	0
8/4/2024 13:11	42601	TUSC_T1	10	11	1	0.48	0	-0.48	0.04	0.08	2	2	0	1800	1800	0
8/4/2024 13:11	59101	WALK_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/4/2024 13:12	46001	BERW_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
8/4/2024 13:12	61306	EARL_T1	0	0	0	0	0	0	-1.17	-1.16	0	0	0	0	0	0
8/4/2024 13:13	64305	LINC_T1	1	1	0	0.1	0.5	0.4	-0.34	-0.43	0	0	0	0	0	0
8/4/2024 13:13	46001	BERW_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
8/4/2024 13:14	52401	GRPA_T2	3	6	3	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
8/4/2024 13:14	52403	GRPA_T2	5	5	0	0.7	1.13	0.43	-0.3	-0.26	0	0	0	0	0	0
8/4/2024 13:14	52402	GRPA_T2	4	15	11	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
8/4/2024 13:14	41002	LAUR_T2	4	5	1	0.4	0.53	0.13	0.12	0.13	0	0	0	0	0	0
8/4/2024 13:14	41001	LAUR_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/4/2024 13:16	58402	MORO_T1	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
8/4/2024 13:16	58401	MORO_T1	1	1	0	0.5	0	-0.5	-1.2	-1.16	2	2	0	1500	1500	0
8/4/2024 13:17	52402	GRPA_T2	4	16	12	0.5	0.77	0.27	0	0	0	0	0	0	0	0
8/4/2024 13:17	61101	BERK_T5	1	1	0	1.8	0.6	-1.2	0	0	0	0	0	0	0	0
8/4/2024 13:17	42802	SELI_T1	0	0	0	0	0	0	-3.17	-3.2	2	2	0	1800	1800	0
8/4/2024 13:17	58401	MORO_T1	1	1	0	0.5	0	-0.5	-1.2	-1.16	2	2	0	1500	1500	0
8/4/2024 13:17	58402	MORO_T1	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
8/4/2024 13:17	52401	GRPA_T2	4	12	8	0.33	0.33	0	0	0	0	0	0	0	0	0
8/4/2024 13:17	52403	GRPA_T2	5	12	7	1.04	1.18	0.14	-0.3	-0.26	0	0	0	0	0	0
8/4/2024 13:17	61102	BERK_T5	0	0	0	0	0	0	0.45	0.47	1	1	0	300	300	0
8/4/2024 13:18	13503	MCMI_T2	2	1	-1	0.2	0.2	0	-0.58	-0.55	0	0	0	0	0	0
8/4/2024 13:19	42802	SELI_T1	0	0	0	0	0	0	-1.59	-1.6	1	1	0	900	900	0
8/4/2024 13:20	61102	BERK_T5	0	0	0	0	0	0	0.45	0.47	1	1	0	300	300	0
8/4/2024 13:20	58401	MORO_T1	1	1	0	0.5	0	-0.5	-2.4	-2.32	4	4	0	3000	3000	0
8/4/2024 13:20	24201	PROV_T3	1	1	0	9.1	9.1	0	-0.75	-0.71	1	1	0	1200	1200	0
8/4/2024 13:20	24204	PROV_T3	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
8/4/2024 13:20	61101	BERK_T5	1	1	0	1.8	0.6	-1.2	0	0	0	0	0	0	0	0
8/4/2024 13:20	58402	MORO_T1	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
8/4/2024 13:21	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/4/2024 13:22	59202	THOM_T1	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
8/4/2024 13:23	27503	WEIS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 13:23	27502	WEIS_T2	140	253	113	1.04	0.87	-0.17	-0.21	-0.15	0	0	0	0	0	0
8/4/2024 13:24	59202	THOM_T1	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
8/4/2024 13:24	41902	REED_T1	30	73	43	0.62	0.56	-0.06	0.43	0.5	0	0	0	0	0	0
8/4/2024 13:24	27503	WEIS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 13:24	27502	WEIS_T2	140	253	113	1.04	0.87	-0.17	-0.21	-0.15	0	0	0	0	0	0
8/4/2024 13:25	15604	NSTR_T1	1	1	0	1.5	1	-0.5	0.51	0.51	0	0	0	0	0	0
8/4/2024 13:25	59202	THOM_T1	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
8/4/2024 13:25	61102	BERK_T5	0	0	0	0	0	0	0.47	0.43	1	1	0	300	300	0
8/4/2024 13:25	61101	BERK_T5	1	1	0	1.8	0.6	-1.2	0	0	0	0	0	0	0	0
8/4/2024 13:26	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/4/2024 13:26	41602	CLEV_T1	30	65	35	0.67	0.53	-0.14	0	0	0	0	0	0	0	0
8/4/2024 13:26	15604	NSTR_T1	1	1	0	1.5	1	-0.5	0.51	0.51	0	0	0	0	0	0
8/4/2024 13:26	59202	THOM_T1	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
8/4/2024 13:27	61101	BERK_T5	1	1	0	1.8	0.6	-1.2	0	0	0	0	0	0	0	0
8/4/2024 13:27	61102	BERK_T5	0	0	0	0	0	0	0.47	0.43	1	1	0	300	300	0
8/4/2024 13:29	67605	WARW_T1	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
8/4/2024 13:30	63804	HEMP_T1	2	2	0	3.45	6.7	3.25	0	0	0	0	0	0	0	0
8/4/2024 13:30	63802	HEMP_T1	0	0	0	0	0	0	0.72	0.69	0	0	0	0	0	0
8/4/2024 13:30	67602	WARW_T2	10	20	10	0.48	0.34	-0.14	1.11	1.12	2	2	0	1500	1500	0
8/4/2024 13:31	63804	HEMP_T1	2	2	0	3.45	6.7	3.25	0.14	0.14	0	0	0	0	0	0
8/4/2024 13:32	22905	HARW_T1	32	21	-11	1.48	0.52	-0.96	0	0	0	0	0	0	0	0
8/4/2024 13:32	22903	HARW_T1	21	12	-9	0.96	0.37	-0.59	0	0	0	0	0	0	0	0
8/4/2024 13:32	22901	HARW_T1	39	46	7	0.92	0.42	-0.5	-0.23	-0.41	1	1	0	1200	1200	0
8/4/2024 13:33	54701	NEBL_T1	0	5	5	0	0.13	0.13	0.13	0	1	1	0	600	600	0
8/4/2024 13:34	63403	HONY_T2	1	1	0	0.1	0.1	0	-0.45	-0.48	0	0	0	0	0	0
8/4/2024 13:34	42802	SELI_T1	0	0	0	0	0	0	-1.6	-1.57	1	1	0	900	900	0
8/4/2024 13:35	47403	PENS_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/4/2024 13:35	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/4/2024 13:35	47402	PENS_T1	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/4/2024 13:35	47401	PENS_T1	2	4	2	1.6	1.7	0.1	1.63	1.6	0	0	0	0	0	0
8/4/2024 13:35	51402	LYKE_T1	1	0	-1	0.1	0	-0.1	-1.88	-1.89	2	2	0	1200	1200	0
8/4/2024 13:36	44203	POIN_T2	8	12	4	1.53	1.07	-0.46	0.37	0.41	1	1	0	900	900	0
8/4/2024 13:36	40101	HUNT_T2	102	202	100	0.54	0.53	-0.01	-0.14	-0.11	0	0	0	0	0	0
8/4/2024 13:36	44202	POIN_T2	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
8/4/2024 13:36	59202	THOM_T1	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
8/4/2024 13:37	66901	SHIL_T2	0	0	0	0	0	0	-0.77	-0.77	1	1	0	1200	1200	0
8/4/2024 13:38	42701	AUGU_T1	69	76	7	1.09	1.29	0.2	0	0	2	2	0	1800	1800	0
8/4/2024 13:38	59202	THOM_T1	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
8/4/2024 13:39	65803	RTWN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 13:39	20403	ASHF_T2	0	2	2	0	0.5	0.5	-0.14	-0.1	0	0	0	0	0	0
8/4/2024 13:39	65802	RTWN_T2	0	0	0	0	0	0	0.47	0.51	0	0	0	0	0	0
8/4/2024 13:39	20402	ASHF_T2	13	82	69	0.66	0.47	-0.19	0	0	0	0	0	0	0	0
8/4/2024 13:39	20401	ASHF_T2	14	21	7	0.65	0.89	0.24	0	0	0	0	0	0	0	0
8/4/2024 13:40	65804	RTWN_T1	0	0	0	0	0	0	0.82	0.86	1	1	0	600	600	0
8/4/2024 13:40	59202	THOM_T1	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
8/4/2024 13:40	42601	TUSC_T1	11	21	10	0.46	0.38	-0.08	0.06	0.06	2	2	0	1800	1800	0
8/4/2024 13:41	27504	WEIS_T1	9	42	33	0.67	0.45	-0.22	-1.51	-1.51	0	0	0	0	0	0
8/4/2024 13:41	59202	THOM_T1	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
8/4/2024 13:41	67804	WLAN_T1	10	10	0	1.77	1.59	-0.18	0	0	0	0	0	0	0	0
8/4/2024 13:41	27501	WEIS_T1	15	108	93	0.51	0.62	0.11	0	0	0	0	0	0	0	0
8/4/2024 13:41	67801	WLAN_T1	15	59	44	0.34	0.18	-0.16	-0.7	-0.7	0	0	0	0	0	0
8/4/2024 13:42	46501	LOHA_T1	28	56	28	0.63	0.61	-0.02	0	0	0	0	0	0	0	0
8/4/2024 13:42	53601	DALM_T2	3	3	0	0.63	0.7	0.07	0.13	0.19	0	0	0	0	0	0
8/4/2024 13:42	46503	LOHA_T1	0	4	4	0	0.1	0.1	-0.47	-0.49	0	0	0	0	0	0
8/4/2024 13:43	42701	AUGU_T1	69	76	7	1.09	1.29	0.2	0	0	2	2	0	1800	1800	0
8/4/2024 13:43	63801	HEMP_T1	0	0	0	0	0	0	-0.5	-0.5	1	1	0	900	900	0
8/4/2024 13:43	63804	HEMP_T1	2	2	0	3.45	6.7	3.25	0	0	0	0	0	0	0	0
8/4/2024 13:44	41502	FAIR_T2	0	0	0	0	0	0	-2.26	-2.27	1	1	0	900	900	0
8/4/2024 13:47	67602	WARW_T2	14	39	25	0.33	0.4	0.07	1.12	1.14	2	2	0	1500	1500	0
8/4/2024 13:48	51202	MTON_T2	0	1	1	0	0.1	0.1	-0.61	-0.62	1	1	0	1200	1200	0
8/4/2024 13:49	51202	MTON_T2	0	1	1	0	0.1	0.1	-0.61	-0.62	1	1	0	1200	1200	0
8/4/2024 13:50	51201	MTON_T1	0	0	0	0	0	0	0.97	1.01	0	0	0	0	0	0
8/4/2024 13:50	64101	REFR_T1	0	0	0	0	0	0	-0.02	0.02	0	0	0	0	0	0
8/4/2024 13:51	64101	REFR_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
8/4/2024 13:51	65604	QVIL_T2	0	0	0	0	0	0	0.87	0.83	0	0	0	0	0	0
8/4/2024 13:53	59101	WALK_T2	0	1	1	0	0.1	0.1	0.2	0.18	0	0	0	0	0	0
8/4/2024 13:54	59101	WALK_T2	0	1	1	0	0.1	0.1	0.2	0.18	0	0	0	0	0	0
8/4/2024 13:55	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/4/2024 13:55	59101	WALK_T2	0	1	1	0	0.1	0.1	0.2	0.18	0	0	0	0	0	0
8/4/2024 13:57	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/4/2024 13:58	60102	COCA_T1	0	0	0	0	0	0	0.21	-0.01	1	1	0	600	600	0
8/4/2024 14:00	63501	HEID_TBK1-2	49	55	6	2.42	2.32	-0.1	0.43	0.38	1	1	0	900	900	0
8/4/2024 14:01	41802	GOCI_T2	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
8/4/2024 14:01	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	1	1	0	900	900
8/4/2024 14:03	41802	GOCI_T2	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
8/4/2024 14:03	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	1	1	0	900	900
8/4/2024 14:04	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/4/2024 14:04	41802	GOCI_T2	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
8/4/2024 14:06	52004	LING_T2	3	3	0	2.43	2.63	0.2	0.19	0.23	0	0	0	0	0	0
8/4/2024 14:06	55001	NEWP_T1	5	32	27	0.56	0.41	-0.15	-0.23	-0.23	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/4/2024 14:06	52006	LING_T2	1	5	4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/4/2024 14:06	52002	LING_T2	2	6	4	0.45	0	-0.45	0	0	0	0	0	0	0	0
8/4/2024 14:06	67001	STHI_T2	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
8/4/2024 14:06	42802	SELI_T1	0	0	0	0	0	0	-4.7	-4.85	3	3	0	2700	2700	0
8/4/2024 14:06	67002	STHI_T2	0	0	0	0	0	0	-0.45	-0.41	1	1	0	600	600	0
8/4/2024 14:06	55002	NEWP_T1	1	1	0	1.6	0.7	-0.9	0	0	0	0	0	0	0	0
8/4/2024 14:07	67602	WARW_T2	19	38	19	0.43	0.57	0.14	1.2	1.15	2	2	0	1500	1500	0
8/4/2024 14:09	67103	SPRI_T1	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
8/4/2024 14:09	42802	SELI_T1	0	0	0	0	0	0	-1.62	-1.54	1	1	0	900	900	0
8/4/2024 14:09	55002	NEWP_T1	1	1	0	1.6	0.7	-0.9	0	0	0	0	0	0	0	0
8/4/2024 14:09	55001	NEWP_T1	5	32	27	0.56	0.41	-0.15	-0.23	-0.25	1	1	0	600	600	0
8/4/2024 14:09	67104	SPRI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 14:12	20402	ASHF_T2	78	157	79	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
8/4/2024 14:12	20401	ASHF_T2	18	31	13	0.74	0.96	0.22	0	0	0	0	0	0	0	0
8/4/2024 14:12	20403	ASHF_T2	2	10	8	0.9	0.83	-0.07	-0.05	-0.04	0	0	0	0	0	0
8/4/2024 14:13	15604	NSTR_T1	2	2	0	1.25	1.8	0.55	0.53	0.49	0	0	0	0	0	0
8/4/2024 14:14	15604	NSTR_T1	2	2	0	1.25	1.8	0.55	0.53	0.49	0	0	0	0	0	0
8/4/2024 14:15	52004	LING_T2	3	4	1	2.63	3.03	0.4	0	0	0	0	0	0	0	0
8/4/2024 14:15	52006	LING_T2	0	8	8	0	0.44	0.44	0	0	0	0	0	0	0	0
8/4/2024 14:15	52002	LING_T2	0	12	12	0	0.2	0.2	0.08	0.07	0	0	0	0	0	0
8/4/2024 14:16	57306	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 14:16	52006	LING_T2	0	8	8	0	0.44	0.44	0	0	0	0	0	0	0	0
8/4/2024 14:16	42002	MNVL_T2	6	3	-3	1.83	3.7	1.87	0	0	0	0	0	0	0	0
8/4/2024 14:16	57303	MOAL_T2	1	1	0	8	8.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 14:16	52004	LING_T2	3	4	1	2.63	3.03	0.4	0	0	0	0	0	0	0	0
8/4/2024 14:16	57304	MOAL_T2	0	10	10	0	0	0	0.06	0.02	0	0	0	0	0	0
8/4/2024 14:16	42001	MNVL_T2	5	6	1	0.44	0	-0.44	0.73	0.79	0	0	0	0	0	0
8/4/2024 14:16	52002	LING_T2	0	12	12	0	0.2	0.2	0.08	0.07	0	0	0	0	0	0
8/4/2024 14:17	41801	GOCI_T2	0	1	1	0	1	1	0	0	1	1	0	900	900	0
8/4/2024 14:17	46101	MACI_T2	0	0	0	0	0	0	-0.37	-0.5	1	1	0	1200	1200	0
8/4/2024 14:17	52006	LING_T2	0	8	8	0	0.44	0.44	0	0	0	0	0	0	0	0
8/4/2024 14:17	52004	LING_T2	3	4	1	2.63	3.03	0.4	0	0	0	0	0	0	0	0
8/4/2024 14:17	52002	LING_T2	0	12	12	0	0.2	0.2	0.08	0.07	0	0	0	0	0	0
8/4/2024 14:19	47101	MARL_T1	38	71	33	1.23	1.26	0.03	-0.64	-0.78	1	1	0	600	600	0
8/4/2024 14:20	64305	LINC_T1	2	1	-1	0.55	0.4	-0.15	-0.43	-0.43	0	0	0	0	0	0
8/4/2024 14:20	54701	NEBL_T1	10	32	22	0.41	0.47	0.06	0	0	1	1	0	600	600	0
8/4/2024 14:20	64303	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 14:20	67602	WARW_T2	38	33	-5	0.43	0.43	0	1.2	1.15	2	2	0	1500	1500	0
8/4/2024 14:21	52006	LING_T2	0	8	8	0	0.44	0.44	0	0	0	0	0	0	0	0
8/4/2024 14:21	47101	MARL_T1	38	71	33	1.23	1.26	0.03	-0.64	-0.78	1	1	0	600	600	0
8/4/2024 14:21	52004	LING_T2	3	4	1	2.63	3.03	0.4	0	0	0	0	0	0	0	0
8/4/2024 14:21	52002	LING_T2	0	12	12	0	0.2	0.2	0.08	0.07	0	0	0	0	0	0
8/4/2024 14:22	47101	MARL_T1	38	71	33	1.23	1.26	0.03	-0.78	-0.78	1	1	0	600	600	0
8/4/2024 14:25	27004	BELL_T1	4	6	2	0.68	0.93	0.25	0	0	0	0	0	0	0	0
8/4/2024 14:25	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/4/2024 14:25	27005	BELL_T1	4	21	17	0.1	0.5	0.4	-0.76	-0.73	0	0	0	0	0	0
8/4/2024 14:26	53601	DALM_T2	3	5	2	0.97	0.83	-0.14	0.18	0.09	0	0	0	0	0	0
8/4/2024 14:33	41801	GOCI_T2	0	2	2	0	0.8	0.8	0	0	1	1	0	900	900	0
8/4/2024 14:34	56501	ROCK_T2	3	6	3	1.4	0.47	-0.93	-1.51	-1.49	0	0	0	0	0	0
8/4/2024 14:34	56504	ROCK_T2	4	5	1	0.63	0	-0.63	0	0	0	0	0	0	0	0
8/4/2024 14:35	55001	NEWP_T1	32	7	-25	0.52	0.9	0.38	-0.25	-0.21	1	1	0	600	600	0
8/4/2024 14:36	56504	ROCK_T2	4	5	1	0.63	0	-0.63	0	0	0	0	0	0	0	0
8/4/2024 14:36	56501	ROCK_T2	3	6	3	1.4	0.47	-0.93	-3.01	-2.98	0	0	0	0	0	0
8/4/2024 14:37	52501	PROG_T1	0	0	0	0	0	0	-0.62	-0.56	1	1	0	300	300	0
8/4/2024 14:38	56504	ROCK_T2	4	5	1	0.63	0	-0.63	0	0	0	0	0	0	0	0
8/4/2024 14:38	56501	ROCK_T2	3	6	3	1.4	0.47	-0.93	-2.98	-2.93	0	0	0	0	0	0
8/4/2024 14:39	56504	ROCK_T2	4	5	1	0.63	0	-0.63	0	0	0	0	0	0	0	0
8/4/2024 14:39	56501	ROCK_T2	3	6	3	1.4	0.47	-0.93	-1.49	-1.46	0	0	0	0	0	0
8/4/2024 14:40	27004	BELL_T1	6	6	0	1	0.85	-0.15	0	0	0	0	0	0	0	0
8/4/2024 14:40	27005	BELL_T1	11	21	10	0.5	0.98	0.48	-0.73	-0.74	0	0	0	0	0	0
8/4/2024 14:42	46205	DANV_T2	5	13	8	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
8/4/2024 14:42	46204	DANV_T2	121	122	1	0.64	0.56	-0.08	0	0	0	0	0	0	0	0
8/4/2024 14:42	46203	DANV_T2	0	1	1	0	0	0	-2.12	-2.12	0	0	0	0	0	0
8/4/2024 14:42	46206	DANV_T2	33	38	5	0.49	0.57	0.08	0	0	0	0	0	0	0	0
8/4/2024 14:43	67702	WERN_T2	0	0	0	0	0	0	0.4	0.36	0	0	0	0	0	0
8/4/2024 14:45	46205	DANV_T2	2	14	12	0.2	0.33	0.13	0	0	0	0	0	0	0	0
8/4/2024 14:45	46206	DANV_T2	36	32	-4	0.49	0.65	0.16	0	0	0	0	0	0	0	0
8/4/2024 14:45	46203	DANV_T2	0	1	1	0	0.5	0.5	-2.12	-2.12	0	0	0	0	0	0
8/4/2024 14:45	58803	COCO_T1	5	22	17	0.7	0.48	-0.22	-0.69	-0.61	1	1	0	600	600	0
8/4/2024 14:45	46204	DANV_T2	120	115	-5	0.64	0.52	-0.12	0	0	0	0	0	0	0	0
8/4/2024 14:46	63401	HONY_T1	0	0	0	0	0	0	0.71	0.73	0	0	0	0	0	0
8/4/2024 14:50	47101	MARL_T1	70	114	44	1.41	1.11	-0.3	-0.78	-0.73	1	1	0	600	600	0
8/4/2024 14:51	45302	WBER_T2	16	27	11	0.38	0.56	0.18	1.55	1.58	0	0	0	0	0	0
8/4/2024 14:52	47101	MARL_T1	70	114	44	1.41	1.11	-0.3	-0.73	-0.71	1	1	0	600	600	0
8/4/2024 14:55	42701	AUGU_T1	69	75	6	1.24	1.56	0.32	0	0	2	2	0	1800	1800	0
8/4/2024 14:55	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/4/2024 14:55	41602	CLEV_T1	75	78	3	0.86	0.74	-0.12	0	0	0	0	0	0	0	0
8/4/2024 14:56	64902	MILL_T2	0	0	0	0	0	0	-1.37	-1.36	1	1	0	900	900	0
8/4/2024 14:57	45302	WBER_T2	16	27	11	0.38	0.56	0.18	1.58	1.57	0	0	0	0	0	0
8/4/2024 14:59	25402	LAHA_T2	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
8/4/2024 15:04	42802	SELI_T1	0	0	0	0	0	0	-1.53	-1.43	1	1	0	900	900	0
8/4/2024 15:05	47401	PENS_T1	1	2	1	1.1	0.55	-0.55	0.57	0.61	0	0	0	0	0	0
8/4/2024 15:05	47402	PENS_T1	5	3	-2	1	0	-1	0	0	0	0	0	0	0	0
8/4/2024 15:05	47403	PENS_T1	2	1	-1	1.25	0.8	-0.45	0	0	0	0	0	0	0	0
8/4/2024 15:06	41901	REED_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:06	47402	PENS_T1	5	3	-2	1	0	-1	0	0	0	0	0	0	0	0
8/4/2024 15:06	41903	REED_T1	0	0	0	0	0	0	0.39	0.48	2	2	0	2400	2400	0
8/4/2024 15:06	47403	PENS_T1	2	1	-1	1.25	0.8	-0.45	0	0	0	0	0	0	0	0
8/4/2024 15:06	49803	UNIV_T1	3	1	-2	2.73	7.4	4.67	-1.36	-1.35	0	0	0	0	0	0
8/4/2024 15:06	47401	PENS_T1	1	2	1	1.1	0.55	-0.55	1.14	1.22	0	0	0	0	0	0
8/4/2024 15:06	41902	REED_T1	161	160	-1	0.59	0.53	-0.06	0	0	0	0	0	0	0	0
8/4/2024 15:06	49804	UNIV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:08	59101	WALK_T2	6	26	20	0.62	0.5	-0.12	0.04	0.43	1	1	0	600	600	0
8/4/2024 15:09	47402	PENS_T1	5	3	-2	1	0	-1	0	0	0	0	0	0	0	0
8/4/2024 15:09	47403	PENS_T1	2	1	-1	1.25	0.8	-0.45	0	0	0	0	0	0	0	0
8/4/2024 15:09	47401	PENS_T1	1	2	1	1.1	0.55	-0.55	0.61	0.58	0	0	0	0	0	0
8/4/2024 15:10	45502	DERR_T2	3	6	3	0.4	0.4	0	0	0	0	0	0	0	0	0
8/4/2024 15:10	45501	DERR_T2	9	16	7	0.68	0.67	-0.01	0.09	0.13	2	2	0	1800	1800	0
8/4/2024 15:11	45502	DERR_T2	3	6	3	0.4	0.4	0	0	0	0	0	0	0	0	0
8/4/2024 15:11	45501	DERR_T2	9	16	7	0.68	0.67	-0.01	0.09	0.13	2	2	0	1800	1800	0
8/4/2024 15:12	59101	WALK_T2	6	26	20	0.62	0.5	-0.12	0.08	0.86	2	2	0	1200	1200	0
8/4/2024 15:12	45501	DERR_T2	9	16	7	0.68	0.67	-0.01	0.09	0.13	2	2	0	1800	1800	0
8/4/2024 15:12	42701	AUGU_T1	69	83	14	1.57	1.63	0.06	0	0	2	2	0	1800	1800	0
8/4/2024 15:12	45502	DERR_T2	3	6	3	0.4	0.4	0	0	0	0	0	0	0	0	0
8/4/2024 15:15	20601	GRWO_T2	488	523	35	1.87	1.67	-0.2	1.13	1.15	0	0	0	0	0	0
8/4/2024 15:18	47104	MARL_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:18	47101	MARL_T1	107	138	31	1.13	1.17	0.04	-0.71	-0.64	1	1	0	600	600	0
8/4/2024 15:19	47403	PENS_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
8/4/2024 15:19	47401	PENS_T1	2	2	0	0.6	0.5	-0.1	1.22	1.16	0	0	0	0	0	0
8/4/2024 15:19	47402	PENS_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:20	54001	SDLE_T1	36	66	30	0.36	0.34	-0.02	0	0	1	1	0	600	600	0
8/4/2024 15:21	52202	DEVO_T2	2	3	1	0.35	0	-0.35	-3.47	-3.43	0	0	0	0	0	0
8/4/2024 15:21	56501	ROCK_T2	3	7	4	1.4	0.33	-1.07	-1.5	-1.42	0	0	0	0	0	0
8/4/2024 15:21	52204	DEVO_T2	10	10	0	2.1	1.78	-0.32	0	0	0	0	0	0	0	0
8/4/2024 15:21	56504	ROCK_T2	2	2	0	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/4/2024 15:21	54001	SDLE_T1	36	66	30	0.36	0.34	-0.02	0	0	1	1	0	600	600	0
8/4/2024 15:21	56503	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/4/2024 15:22	47104	MARL_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:22	47101	MARL_T1	107	138	31	1.13	1.17	0.04	-0.64	-0.68	1	1	0	600	600	0
8/4/2024 15:23	47403	PENS_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
8/4/2024 15:23	47402	PENS_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:23	52202	DEVO_T2	2	3	1	0.35	0	-0.35	-1.72	-1.68	0	0	0	0	0	0
8/4/2024 15:23	52204	DEVO_T2	10	10	0	2.1	1.78	-0.32	0	0	0	0	0	0	0	0
8/4/2024 15:23	47401	PENS_T1	2	2	0	0.6	0.5	-0.1	0.58	0.54	0	0	0	0	0	0
8/4/2024 15:24	56501	ROCK_T2	3	7	4	1.4	0.33	-1.07	-1.42	-1.37	0	0	0	0	0	0
8/4/2024 15:24	20402	ASHF_T2	109	214	105	0.71	0.63	-0.08	0	0	0	0	0	0	0	0
8/4/2024 15:24	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:24	20401	ASHF_T2	39	68	29	0.71	0.48	-0.23	0	0	0	0	0	0	0	0
8/4/2024 15:24	56503	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/4/2024 15:24	55101	WERT_T1	3	6	3	0.17	0.7	0.53	-1.94	-1.91	4	4	0	3300	3300	0
8/4/2024 15:24	20403	ASHF_T2	50	50	0	0.55	0.28	-0.27	0.09	0.1	0	0	0	0	0	0
8/4/2024 15:24	56504	ROCK_T2	2	2	0	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/4/2024 15:25	56501	ROCK_T2	3	7	4	1.4	0.33	-1.07	-1.42	-1.37	0	0	0	0	0	0
8/4/2024 15:25	45502	DERR_T2	6	3	-3	0.32	0.4	0.08	0	0	0	0	0	0	0	0
8/4/2024 15:25	56504	ROCK_T2	2	2	0	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/4/2024 15:25	56503	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/4/2024 15:25	45501	DERR_T2	14	15	1	0.65	0.23	-0.42	0.13	0.12	2	2	0	1800	1800	0
8/4/2024 15:26	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:26	53501	EVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:27	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/4/2024 15:28	42701	AUGU_T1	75	83	8	1.67	1.63	-0.04	0	0	2	2	0	1800	1800	0
8/4/2024 15:28	40201	BEGA_T2	14	56	42	0.96	0.69	-0.27	0	0	0	0	0	0	0	0
8/4/2024 15:28	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:28	53501	EVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:29	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:29	53501	EVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:30	53501	EVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:30	52204	DEVO_T2	10	6	-4	1.51	1.78	0.27	0	0	0	0	0	0	0	0
8/4/2024 15:30	52202	DEVO_T2	3	0	-3	0.33	0	-0.33	-1.72	-1.68	0	0	0	0	0	0
8/4/2024 15:30	53502	EVIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/4/2024 15:31	46203	DANV_T2	1	3	2	0.3	0.3	0	-2.04	-2.08	0	0	0	0	0	0
8/4/2024 15:31	53502	EVIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/4/2024 15:31	53501	EVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:31	46204	DANV_T2	103	96	-7	0.57	0.39	-0.18	0	0	0	0	0	0	0	0
8/4/2024 15:31	46205	DANV_T2	8	1	-7	0.24	0	-0.24	0	0	0	0	0	0	0	0
8/4/2024 15:31	46206	DANV_T2	11	18	7	0.92	0.51	-0.41	0	0	0	0	0	0	0	0
8/4/2024 15:32	42901	MIDD_T2	3	3	0	0.93	0.5	-0.43	0	0	0	0	0	0	0	0
8/4/2024 15:32	42902	MIDD_T2	29	29	0	1.61	2.09	0.48	-0.15	-0.11	0	0	0	0	0	0
8/4/2024 15:32	42903	MIDD_T2	2	2	0	1.3	1.25	-0.05	0	0	0	0	0	0	0	0
8/4/2024 15:33	42902	MIDD_T2	29	29	0	1.61	2.09	0.48	-0.15	-0.11	0	0	0	0	0	0
8/4/2024 15:33	42903	MIDD_T2	2	2	0	1.3	1.25	-0.05	0	0	0	0	0	0	0	0
8/4/2024 15:33	42901	MIDD_T2	3	3	0	0.93	0.5	-0.43	0	0	0	0	0	0	0	0
8/4/2024 15:34	26401	INOR_T1	2	2	0	3.05	2.95	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/4/2024 15:34	26402	INOR_T1	3	6	3	0.97	0.75	-0.22	-1.31	-1.31	1	1	0	600	600	0
8/4/2024 15:35	42902	MIDD_T2	29	29	0	1.61	2.09	0.48	-0.08	-0.06	0	0	0	0	0	0
8/4/2024 15:35	42901	MIDD_T2	3	3	0	0.93	0.5	-0.43	0	0	0	0	0	0	0	0
8/4/2024 15:35	42903	MIDD_T2	2	2	0	1.3	1.25	-0.05	0	0	0	0	0	0	0	0
8/4/2024 15:38	42201	SHEN_T2	0	0	0	0	0	0	0.33	0.31	1	1	0	600	600	0
8/4/2024 15:40	20403	ASHF_T2	47	40	-7	0.5	0.26	-0.24	0.1	0.09	0	0	0	0	0	0
8/4/2024 15:40	20402	ASHF_T2	189	293	104	0.66	0.72	0.06	0	0	0	0	0	0	0	0
8/4/2024 15:40	20401	ASHF_T2	62	77	15	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
8/4/2024 15:43	40201	BEGA_T2	44	47	3	0.71	0.77	0.06	0	0	0	0	0	0	0	0
8/4/2024 15:45	53501	EVIL_T2	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
8/4/2024 15:48	59003	MIFF_T1	0	0	0	0	0	0	-0.94	-0.96	0	0	0	0	0	0
8/4/2024 15:49	67603	WARW_T1	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
8/4/2024 15:49	42301	MOWR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:49	42302	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:49	67605	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/4/2024 15:50	42302	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:50	57303	MOAL_T2	1	1	0	8.4	8.6	0.2	0	0	0	0	0	0	0	0
8/4/2024 15:50	42301	MOWR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:50	57304	MOAL_T2	25	28	3	0.64	1.23	0.59	-0.2	-0.16	0	0	0	0	0	0
8/4/2024 15:51	67605	WARW_T1	0	0	0	0	0	0	-0.01	0.09	0	0	0	0	0	0
8/4/2024 15:51	42302	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:51	67603	WARW_T1	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
8/4/2024 15:51	42301	MOWR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:52	55101	WERT_T1	6	2	-4	0.35	0	-0.35	-3.86	-3.87	8	8	0	6600	6600	0
8/4/2024 15:52	41801	GOCI_T2	3	1	-2	0.63	0.2	-0.43	0	0	1	1	0	900	900	0
8/4/2024 15:52	55103	WERT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:52	55105	WERT_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 15:53	67602	WARW_T2	15	21	6	0.37	0.43	0.06	1.25	1.28	2	2	0	1500	1500	0
8/4/2024 15:53	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/4/2024 15:54	55101	WERT_T1	6	2	-4	0.35	0	-0.35	-1.93	-1.93	4	4	0	3300	3300	0
8/4/2024 15:54	49803	UNIV_T1	2	21	19	3.65	1.88	-1.77	-1.28	-1.28	0	0	0	0	0	0
8/4/2024 15:54	55103	WERT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:54	49804	UNIV_T1	0	5	5	0	0.15	0.15	0	0	0	0	0	0	0	0
8/4/2024 15:54	55105	WERT_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 15:55	55103	WERT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:55	55105	WERT_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 15:55	20403	ASHF_T2	23	61	38	0.27	0.46	0.19	0.09	0.13	0	0	0	0	0	0
8/4/2024 15:55	55101	WERT_T1	6	2	-4	0.35	0	-0.35	-3.86	-3.87	8	8	0	6600	6600	0
8/4/2024 15:55	20402	ASHF_T2	205	295	90	0.72	0.71	-0.01	0	0	0	0	0	0	0	0
8/4/2024 15:55	20401	ASHF_T2	62	99	37	0.57	0.51	-0.06	0	0	0	0	0	0	0	0
8/4/2024 15:55	42701	AUGU_T1	82	87	5	1.66	1.8	0.14	0	0	2	2	0	1800	1800	0
8/4/2024 15:56	55103	WERT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 15:56	51604	DUKE_T2	1	1	0	0.1	0.1	0	-0.01	-0.01	0	0	0	0	0	0
8/4/2024 15:56	55105	WERT_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 15:56	55101	WERT_T1	6	2	-4	0.35	0	-0.35	-1.93	-1.93	4	4	0	3300	3300	0
8/4/2024 15:56	51602	DUKE_T2	0	8	8	0	0.3	0.3	0	0	0	0	0	0	0	0
8/4/2024 15:59	53902	HALI_T2	1	1	0	2.8	2.6	-0.2	-0.88	-0.93	0	0	0	0	0	0
8/4/2024 15:59	53901	HALI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/4/2024 16:00	64302	LINC_T2	4	6	2	1.15	2.3	1.15	1.55	1.56	0	0	0	0	0	0
8/4/2024 16:00	53902	HALI_T2	1	1	0	2.6	2.6	0	-0.88	-0.93	0	0	0	0	0	0
8/4/2024 16:00	53901	HALI_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/4/2024 16:03	53902	HALI_T2	1	1	0	2.6	2.6	0	-0.44	-0.46	0	0	0	0	0	0
8/4/2024 16:03	53901	HALI_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/4/2024 16:05	47802	MOCA_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
8/4/2024 16:10	55105	WERT_T1	2	9	7	0.3	0.35	0.05	0	0	0	0	0	0	0	0
8/4/2024 16:10	55103	WERT_T1	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/4/2024 16:10	55101	WERT_T1	1	1	0	0.7	0	-0.7	-1.93	-1.93	4	4	0	3300	3300	0
8/4/2024 16:15	22905	HARW_T1	26	49	23	0.69	1.03	0.34	0	0	0	0	0	0	0	0
8/4/2024 16:15	22903	HARW_T1	14	12	-2	0.71	0.48	-0.23	0	0	0	0	0	0	0	0
8/4/2024 16:15	22901	HARW_T1	0	0	0	0	0	0	-1.64	-1.65	1	1	0	1200	1200	0
8/4/2024 16:16	21202	ECAR_T2	2	2	0	0.65	0.95	0.3	0	0	0	0	0	0	0	0
8/4/2024 16:16	58803	COCO_T1	50	151	101	0.4	0.44	0.04	-0.5	-0.48	1	1	0	600	600	0
8/4/2024 16:16	21204	ECAR_T2	1	3	2	0	0	0	-0.27	-0.27	0	0	0	0	0	0
8/4/2024 16:16	21206	ECAR_T2	32	54	22	0.97	0.7	-0.27	0	0	0	0	0	0	0	0
8/4/2024 16:19	64101	REFR_T1	5	14	9	0.66	0.82	0.16	0.11	0.1	0	0	0	0	0	0
8/4/2024 16:23	67103	SPRI_T1	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
8/4/2024 16:26	45501	DERR_T2	11	36	25	0.45	0.41	-0.04	0.11	0.13	2	2	0	1800	1800	0
8/4/2024 16:26	45502	DERR_T2	3	16	13	0.23	0.38	0.15	0	0	0	0	0	0	0	0
8/4/2024 16:28	45502	DERR_T2	3	16	13	0.23	0.38	0.15	0	0	0	0	0	0	0	0
8/4/2024 16:28	44801	EDAN_T2	9	9	0	1.57	0.73	-0.84	0	0	0	0	0	0	0	0
8/4/2024 16:28	45501	DERR_T2	11	36	25	0.45	0.41	-0.04	0.11	0.13	2	2	0	1800	1800	0
8/4/2024 16:28	44802	EDAN_T2	0	0	0	0	0	0	-2.59	-2.68	0	0	0	0	0	0
8/4/2024 16:29	44801	EDAN_T2	9	9	0	1.57	0.73	-0.84	0	0	0	0	0	0	0	0
8/4/2024 16:29	53902	HALI_T2	1	1	0	2.6	2.5	-0.1	-0.42	-0.41	0	0	0	0	0	0
8/4/2024 16:29	53901	HALI_T2	1	2	1	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/4/2024 16:29	44802	EDAN_T2	0	0	0	0	0	0	-2.59	-2.68	0	0	0	0	0	0
8/4/2024 16:30	53902	HALI_T2	1	1	0	2.3	2.6	0.3	-0.84	-0.82	0	0	0	0	0	0
8/4/2024 16:30	45502	DERR_T2	5	59	54	0.38	0.4	0.02	0	0	0	0	0	0	0	0
8/4/2024 16:30	44802	EDAN_T2	0	1	1	0	0	0	-2.59	-2.68	0	0	0	0	0	0
8/4/2024 16:30	53901	HALI_T2	1	2	1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
8/4/2024 16:30	44801	EDAN_T2	6	14	8	0.65	0.7	0.05	0	0	0	0	0	0	0	0
8/4/2024 16:30	45501	DERR_T2	17	45	28	0.44	0.37	-0.07	0.11	0.13	2	2	0	1800	1800	0
8/4/2024 16:31	53902	HALI_T2	1	1	0	2.3	2.6	0.3	-0.42	-0.41	0	0	0	0	0	0
8/4/2024 16:31	22905	HARW_T1	48	25	-23	1.01	1.09	0.08	0	0	0	0	0	0	0	0
8/4/2024 16:31	53901	HALI_T2	1	2	1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
8/4/2024 16:31	22901	HARW_T1	0	0	0	0	0	0	-1.65	-1.46	1	1	0	1200	1200	0
8/4/2024 16:31	45502	DERR_T2	5	59	54	0.38	0.4	0.02	0	0	0	0	0	0	0	0
8/4/2024 16:31	45501	DERR_T2	17	45	28	0.44	0.37	-0.07	0.11	0.13	2	2	0	1800	1800	0
8/4/2024 16:31	22903	HARW_T1	11	10	-1	0.48	0.47	-0.01	0	0	0	0	0	0	0	0
8/4/2024 16:32	53901	HALI_T2	1	2	1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
8/4/2024 16:32	53902	HALI_T2	1	1	0	2.3	2.6	0.3	-0.42	-0.41	0	0	0	0	0	0
8/4/2024 16:39	56601	HAMP_T1	0	0	0	0	0	0	-0.32	-1.73	0	0	0	0	0	0
8/4/2024 16:40	67503	WEWI_T2	85	187	102	0.52	0.71	0.19	-0.49	-0.49	1	1	0	600	600	0
8/4/2024 16:40	67502	WEWI_T2	11	31	20	1.12	0.88	-0.24	0	0	0	0	0	0	0	0
8/4/2024 16:42	51804	EBEN_T2	6	7	1	0.58	1.12	0.54	-0.47	-0.47	1	1	0	900	900	0
8/4/2024 16:42	51802	EBEN_T2	6	5	-1	1.57	0.7	-0.87	0	0	0	0	0	0	0	0
8/4/2024 16:45	51802	EBEN_T2	5	3	-2	1.46	0.7	-0.76	0	0	0	0	0	0	0	0
8/4/2024 16:45	54602	SUMM_T2	8	16	8	0.4	0.4	0	-1.75	-1.74	1	1	0	600	600	0
8/4/2024 16:45	54601	SUMM_T2	1	2	1	1.5	0.55	-0.95	0	0	0	0	0	0	0	0
8/4/2024 16:45	54603	SUMM_T2	2	1	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/4/2024 16:45	51804	EBEN_T2	5	6	1	1.16	0.73	-0.43	-0.47	-0.47	1	1	0	900	900	0
8/4/2024 16:48	53802	MBRG_T2	0	0	0	0	0	0	0.25	-0.26	0	0	0	0	0	0
8/4/2024 16:50	47101	MARL_T1	271	352	81	1.13	1.21	0.08	-0.6	-0.55	1	1	0	600	600	0
8/4/2024 16:50	47104	MARL_T1	20	21	1	0.76	0.75	-0.01	0	0	0	0	0	0	0	0
8/4/2024 16:50	41801	GOCI_T2	0	1	1	0	0	0	0	0	1	1	0	900	900	0
8/4/2024 16:53	43103	SMIL_T2	7	23	16	1.46	0.91	-0.55	0	0	0	0	0	0	0	0
8/4/2024 16:53	43108	SMIL_T2	16	28	12	0.5	0.64	0.14	0	0	0	0	0	0	0	0
8/4/2024 16:53	43101	SMIL_T2	41	55	14	0.87	0.8	-0.07	-0.51	-0.49	1	1	0	300	300	0
8/4/2024 16:53	43104	SMIL_T2	18	22	4	0.96	0.54	-0.42	0	0	0	0	0	0	0	0
8/4/2024 16:54	43104	SMIL_T2	18	22	4	0.96	0.54	-0.42	-0.3	-0.29	2	2	0	600	600	0
8/4/2024 16:54	43103	SMIL_T2	7	23	16	1.46	0.91	-0.55	0	0	0	0	0	0	0	0
8/4/2024 16:54	43101	SMIL_T2	41	55	14	0.87	0.8	-0.07	0	0	0	0	0	0	0	0
8/4/2024 16:54	43108	SMIL_T2	16	28	12	0.5	0.64	0.14	0	0	0	0	0	0	0	0
8/4/2024 16:55	43108	SMIL_T2	16	28	12	0.5	0.64	0.14	-0.67	-0.63	1	1	0	1200	1200	0
8/4/2024 16:55	43103	SMIL_T2	7	23	16	1.46	0.91	-0.55	0	0	0	0	0	0	0	0
8/4/2024 16:55	43101	SMIL_T2	41	55	14	0.87	0.8	-0.07	0	0	0	0	0	0	0	0
8/4/2024 16:55	43104	SMIL_T2	18	22	4	0.96	0.54	-0.42	-0.15	-0.14	1	1	0	300	300	0
8/4/2024 16:56	43101	SMIL_T2	41	55	14	0.87	0.8	-0.07	0	0	0	0	0	0	0	0
8/4/2024 16:56	43103	SMIL_T2	7	23	16	1.46	0.91	-0.55	0	0	0	0	0	0	0	0
8/4/2024 16:56	43104	SMIL_T2	18	22	4	0.96	0.54	-0.42	-0.15	-0.14	1	1	0	300	300	0
8/4/2024 16:56	43108	SMIL_T2	16	28	12	0.5	0.64	0.14	0	0	0	0	0	0	0	0
8/4/2024 17:04	58203	NEWV_T2	57	92	35	0.72	0.75	0.03	-0.71	-0.72	0	0	0	0	0	0
8/4/2024 17:06	57104	SPHI_T2	0	0	0	0	0	0	-1.76	-1.72	1	1	0	900	900	0
8/4/2024 17:06	57106	SPHI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 17:07	54601	SUMM_T2	2	4	2	0.6	0.5	-0.1	-1.91	-1.88	3	3	0	3000	3000	0
8/4/2024 17:07	54602	SUMM_T2	10	21	11	0.45	0.49	0.04	0	0	0	0	0	0	0	0
8/4/2024 17:07	54603	SUMM_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/4/2024 17:08	40301	TAMA_T3	12	9	-3	0.37	0.28	-0.09	0	0	0	0	0	0	0	0
8/4/2024 17:08	40302	TAMA_T3	0	0	0	0	0	0	-2.22	-2.21	1	1	0	1200	1200	0
8/4/2024 17:11	43108	SMIL_T2	24	31	7	0.58	0.55	-0.03	-0.63	-0.65	1	1	0	1200	1200	0
8/4/2024 17:11	43103	SMIL_T2	22	17	-5	0.87	0.43	-0.44	0	0	0	0	0	0	0	0
8/4/2024 17:11	43104	SMIL_T2	16	22	6	0.68	0.34	-0.34	0	0	0	0	0	0	0	0
8/4/2024 17:11	43101	SMIL_T2	47	55	8	0.8	0.95	0.15	0	0	0	0	0	0	0	0
8/4/2024 17:12	61704	ELIZ_T2	4	1	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/4/2024 17:12	61702	ELIZ_T2	20	20	0	0.66	1.27	0.61	-1.17	-1.16	2	2	0	1500	1500	0
8/4/2024 17:13	61703	ELIZ_T1	1	5	4	1.8	0.8	-1	0	0	0	0	0	0	0	0
8/4/2024 17:13	61701	ELIZ_T1	4	4	0	0.65	1.57	0.92	1.45	1.39	0	0	0	0	0	0
8/4/2024 17:18	22901	HARW_T1	0	0	0	0	0	0	-1.59	-1.43	1	1	0	1200	1200	0
8/4/2024 17:18	22905	HARW_T1	20	14	-6	1.23	0.16	-1.07	0	0	0	0	0	0	0	0
8/4/2024 17:18	47001	HUGH_T2	10	13	3	2.02	2.22	0.2	-0.68	-0.67	1	1	0	900	900	0
8/4/2024 17:18	22903	HARW_T1	2	22	20	0.9	0.74	-0.16	0	0	0	0	0	0	0	0
8/4/2024 17:18	47002	HUGH_T2	2	11	9	0.35	0.57	0.22	0	0	0	0	0	0	0	0
8/4/2024 17:19	52401	GRPA_T2	136	209	73	0.99	1.14	0.15	-0.52	-0.54	0	0	0	0	0	0
8/4/2024 17:19	52403	GRPA_T2	73	73	0	1.51	1.47	-0.04	0	0	0	0	0	0	0	0
8/4/2024 17:19	52404	GRPA_T2	24	16	-8	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
8/4/2024 17:19	52402	GRPA_T2	14	76	62	0.56	0.59	0.03	0	0	0	0	0	0	0	0
8/4/2024 17:20	43301	WATS_T2	9	6	-3	0.5	0.93	0.43	0.16	0.12	1	1	0	900	900	0
8/4/2024 17:20	43304	WATS_T2	14	53	39	0.43	0.55	0.12	0	0	0	0	0	0	0	0
8/4/2024 17:21	61703	ELIZ_T1	1	23	22	1.3	0.34	-0.96	0	0	0	0	0	0	0	0
8/4/2024 17:21	57702	PAXT_T1	12	15	3	0.84	1.13	0.29	-0.81	-0.81	0	0	0	0	0	0
8/4/2024 17:21	61701	ELIZ_T1	4	7	3	1.25	1.27	0.02	0.7	0.78	0	0	0	0	0	0
8/4/2024 17:31	58801	COCO_T2	0	0	0	0	0	0	-1.35	-1.34	2	2	0	2400	2400	0
8/4/2024 17:37	61202	REIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/4/2024 17:38	61202	REIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/4/2024 17:40	59101	WALK_T2	107	49	-58	0.7	0.59	-0.11	0.3	0.35	4	4	0	2400	2400	0
8/4/2024 17:43	44301	BEAV_T2	61	116	55	0.7	0.91	0.21	-0.75	-0.77	1	1	0	600	600	0
8/4/2024 17:45	53902	HALI_T2	2	1	-1	1.9	3.9	2	0	0	0	0	0	0	0	0
8/4/2024 17:45	53901	HALI_T2	0	0	0	0	0	0	-0.71	-0.78	0	0	0	0	0	0
8/4/2024 17:45	44301	BEAV_T2	112	103	-9	0.91	0.78	-0.13	-0.75	-0.77	1	1	0	600	600	0
8/4/2024 17:46	44301	BEAV_T2	112	103	-9	0.91	0.78	-0.13	0	0	0	0	0	0	0	0
8/4/2024 17:49	61202	REIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/4/2024 17:50	42901	MIDD_T2	18	18	0	1.01	0.82	-0.19	0	0	0	0	0	0	0	0
8/4/2024 17:50	42903	MIDD_T2	9	10	1	0.77	0.53	-0.24	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/4/2024 17:50	42902	MIDD_T2	32	34	2	3.8	2.63	-1.17	0	-0.03	0	0	0	0	0	0
8/4/2024 17:52	61202	REIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/4/2024 17:57	59101	WALK_T2	43	45	2	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
8/4/2024 17:57	59102	WALK_T2	0	0	0	0	0	0	0.01	0	1	1	0	600	600	0
8/4/2024 17:57	44702	MUNC_T2	5	9	4	0.78	1.11	0.33	0	0	0	0	0	0	0	0
8/4/2024 17:57	44703	MUNC_T2	24	18	-6	0.66	0.6	-0.06	0	0	0	0	0	0	0	0
8/4/2024 17:57	52403	GRPA_T2	66	66	0	1.51	1.28	-0.23	0	0	0	0	0	0	0	0
8/4/2024 17:57	44701	MUNC_T2	43	34	-9	0.49	0.27	-0.22	0	0	0	0	0	0	0	0
8/4/2024 17:57	52401	GRPA_T2	145	129	-16	1.16	0.6	-0.56	0	0	0	0	0	0	0	0
8/4/2024 17:57	52402	GRPA_T2	11	84	73	0.59	0.9	0.31	0	0	0	0	0	0	0	0
8/4/2024 17:57	52404	GRPA_T2	8	64	56	0.44	0.46	0.02	-0.26	-0.22	0	0	0	0	0	0
8/4/2024 17:58	61505	EPET_T1	0	0	0	0	0	0	0.91	0.91	0	0	0	0	0	0
8/4/2024 17:59	61703	ELIZ_T1	23	35	12	0.35	0.27	-0.08	-2.02	-2.06	2	2	0	2100	2100	0
8/4/2024 17:59	61701	ELIZ_T1	6	5	-1	1	0.77	-0.23	0	0	0	0	0	0	0	0
8/4/2024 18:00	61703	ELIZ_T1	20	38	18	0.31	0.18	-0.13	0	0	0	0	0	0	0	0
8/4/2024 18:00	61701	ELIZ_T1	4	6	2	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
8/4/2024 18:04	15603	NSTR_T2	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
8/4/2024 18:04	15602	NSTR_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/4/2024 18:04	15601	NSTR_T2	12	10	-2	0.7	0.66	-0.04	0	0	0	0	0	0	0	0
8/4/2024 18:10	51304	WIND_T2	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
8/4/2024 18:12	61801	EELI_T2	19	18	-1	1.01	0.72	-0.29	-0.02	-0.02	1	1	0	600	600	0
8/4/2024 18:12	61802	EELI_T2	9	9	0	1.52	1.4	-0.12	0	0	0	0	0	0	0	0
8/4/2024 18:13	67502	WEWI_T2	63	103	40	0.83	0.78	-0.05	0	0	0	0	0	0	0	0
8/4/2024 18:13	67503	WEWI_T2	177	231	54	0.79	0.72	-0.07	-0.51	-0.48	1	1	0	600	600	0
8/4/2024 18:16	67801	WLAN_T1	46	57	11	0.45	0.57	0.12	0	0	0	0	0	0	0	0
8/4/2024 18:16	67804	WLAN_T1	10	10	0	2.51	2.29	-0.22	0	0	0	0	0	0	0	0
8/4/2024 18:16	63804	HEMP_T1	1	2	1	6.9	3.45	-3.45	0.25	0.32	0	0	0	0	0	0
8/4/2024 18:16	67805	WLAN_T1	0	0	0	0	0	0	-0.85	-0.9	0	0	0	0	0	0
8/4/2024 18:16	67802	WLAN_T1	2	1	-1	0.75	0	-0.75	0	0	0	0	0	0	0	0
8/4/2024 18:16	67803	WLAN_T1	1	4	3	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/4/2024 18:20	40601	PIGR_T1	19	12	-7	0.45	0.7	0.25	0	0	0	0	0	0	0	0
8/4/2024 18:20	40603	PIGR_T1	58	66	8	1.28	1.16	-0.12	0	0	0	0	0	0	0	0
8/4/2024 18:20	40602	PIGR_T1	63	95	32	0.53	0.75	0.22	-0.78	-0.79	1	1	0	600	600	0
8/4/2024 18:21	40603	PIGR_T1	58	66	8	1.28	1.16	-0.12	0	0	0	0	0	0	0	0
8/4/2024 18:21	40601	PIGR_T1	19	12	-7	0.45	0.7	0.25	0	0	0	0	0	0	0	0
8/4/2024 18:21	40602	PIGR_T1	63	95	32	0.53	0.75	0.22	-0.78	-0.79	1	1	0	600	600	0
8/4/2024 18:24	40601	PIGR_T1	19	12	-7	0.45	0.7	0.25	0	0	0	0	0	0	0	0
8/4/2024 18:24	40602	PIGR_T1	63	95	32	0.53	0.75	0.22	0	0	0	0	0	0	0	0
8/4/2024 18:24	40603	PIGR_T1	58	66	8	1.28	1.16	-0.12	0	0	0	0	0	0	0	0
8/4/2024 18:29	58803	COCO_T1	114	136	22	0.53	0.52	-0.01	0	0	0	0	0	0	0	0
8/4/2024 18:37	64101	REFR_T1	4	4	0	0.58	0.25	-0.33	0.18	0.21	0	0	0	0	0	0
8/4/2024 18:38	57603	RUTH_T2	15	20	5	0.7	0.56	-0.14	0	0	0	0	0	0	0	0
8/4/2024 18:38	57602	RUTH_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/4/2024 18:38	57601	RUTH_T2	0	0	0	0	0	0	-1.56	-1.61	1	1	0	900	900	0
8/4/2024 18:39	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/4/2024 18:50	66203	SISP_T2	2	0	-2	0.95	0	-0.95	0	0	0	0	0	0	0	0
8/4/2024 18:50	66202	SISP_T2	0	0	0	0	0	0	-0.62	-0.66	0	0	0	0	0	0
8/4/2024 18:52	40603	PIGR_T1	66	67	1	1.53	1.45	-0.08	0	0	0	0	0	0	0	0
8/4/2024 18:52	40602	PIGR_T1	68	72	4	0.89	0.72	-0.17	0	0	0	0	0	0	0	0
8/4/2024 18:52	40601	PIGR_T1	10	11	1	0.55	0.36	-0.19	0	0	0	0	0	0	0	0
8/4/2024 18:52	41902	REED_T1	75	67	-8	0.61	0.52	-0.09	-0.37	-0.36	1	1	0	900	900	0
8/4/2024 18:52	41901	REED_T1	11	8	-3	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
8/4/2024 19:01	41602	CLEV_T1	124	107	-17	0.61	0.51	-0.1	0	0	1	1	0	600	600	0
8/4/2024 19:02	46504	LOHA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/4/2024 19:02	46501	LOHA_T1	26	26	0	0.58	0.97	0.39	0.44	0.43	1	1	0	1200	1200	0
8/4/2024 19:03	46501	LOHA_T1	26	26	0	0.58	0.97	0.39	0.44	0.43	1	1	0	1200	1200	0
8/4/2024 19:03	46504	LOHA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/4/2024 19:05	44903	SCOT_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/4/2024 19:05	44905	SCOT_T1	10	13	3	0.72	0.66	-0.06	0	0	0	0	0	0	0	0
8/4/2024 19:07	44901	SCOT_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
8/4/2024 19:07	44902	SCOT_T2	0	1	1	0	4.5	4.5	0	0	0	0	0	0	0	0
8/4/2024 19:15	20802	LOPO_T1	0	0	0	0	0	0	-0.9	-0.92	1	1	0	600	600	0
8/4/2024 19:23	25801	SUTR_T2	10	7	-3	4.92	6.23	1.31	-0.08	-0.08	0	0	0	0	0	0
8/4/2024 19:24	43802	SWIL_T1	4	1	-3	1.18	0.7	-0.48	0.76	0.71	1	1	0	600	600	0
8/4/2024 19:24	43801	SWIL_T1	8	8	0	1.99	1.73	-0.26	0	0	0	0	0	0	0	0
8/4/2024 19:39	61701	ELIZ_T1	1	1	0	0.8	1.7	0.9	0.73	0.82	0	0	0	0	0	0
8/4/2024 19:39	61703	ELIZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 19:40	45501	DERR_T2	9	14	5	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
8/4/2024 19:40	45502	DERR_T2	27	13	-14	0.44	0.23	-0.21	-0.41	-0.42	0	0	0	0	0	0
8/4/2024 19:41	20401	ASHF_T2	41	26	-15	0.45	0.49	0.04	0	0	0	0	0	0	0	0
8/4/2024 19:41	20403	ASHF_T2	16	3	-13	0.34	0.1	-0.24	0.09	0.03	0	0	0	0	0	0
8/4/2024 19:41	20402	ASHF_T2	192	156	-36	0.86	0.48	-0.38	0	0	0	0	0	0	0	0
8/4/2024 20:01	58803	COCO_T1	6	2	-4	0.28	0	-0.28	0	0	0	0	0	0	0	0
8/4/2024 20:02	46501	LOHA_T1	9	8	-1	1.44	0	-1.44	0	0	0	0	0	0	0	0
8/4/2024 20:02	46506	LOHA_T1	0	0	0	0	0	0	-1.61	-1.61	1	1	0	1200	1200	0
8/4/2024 20:02	46504	LOHA_T1	2	2	0	0.5	0.85	0.35	0	0	0	0	0	0	0	0
8/4/2024 20:13	61102	BERK_T5	0	0	0	0	0	0	-0.4	-0.5	2	2	0	1200	1200	0
8/4/2024 20:23	57303	MOAL_T2	1	1	0	7.9	7.6	-0.3	0	0	0	0	0	0	0	0
8/4/2024 20:23	57304	MOAL_T2	24	18	-6	0.71	0.4	-0.31	-0.65	-0.27	0	0	0	0	0	0
8/4/2024 20:26	64201	KINZ_T1	1	1	0	0.3	0.7	0.4	-0.83	-0.87	4	4	0	2100	2100	0
8/4/2024 20:26	64204	KINZ_T1	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
8/4/2024 20:31	57304	MOAL_T2	18	6	-12	0.61	0	-0.61	-0.65	-0.27	0	0	0	0	0	0
8/4/2024 20:31	57303	MOAL_T2	1	1	0	7.8	7.5	-0.3	0	0	0	0	0	0	0	0
8/4/2024 20:44	52403	GRPA_T2	67	65	-2	1.23	0.95	-0.28	0	0	0	0	0	0	0	0
8/4/2024 20:44	40101	HUNT_T2	54	9	-45	0.63	0.34	-0.29	0	0	0	0	0	0	0	0
8/4/2024 20:44	52401	GRPA_T2	1	2	1	0.1	0.2	0.1	-0.73	-0.79	0	0	0	0	0	0
8/4/2024 20:44	52402	GRPA_T2	1	5	4	0.3	0.33	0.03	0	0	0	0	0	0	0	0
8/4/2024 20:44	52404	GRPA_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/4/2024 20:48	29402	BELT_T1	1	1	0	8.9	8.6	-0.3	0	0	0	0	0	0	0	0
8/4/2024 20:48	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/4/2024 20:56	46302	ROHR_T1	3	5	2	0.43	0.37	-0.06	0.43	0.44	0	0	0	0	0	0
8/4/2024 20:56	46301	ROHR_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/4/2024 21:02	40902	JESH_T1	1	1	0	1.5	1.6	0.1	-1.25	-1.37	2	2	0	1200	1200	0
8/4/2024 21:02	40901	JESH_T1	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
8/4/2024 21:03	63501	HEID_TBK1-2	49	49	0	1.86	1.59	-0.27	0.32	0.34	1	1	0	900	900	0
8/4/2024 21:59	61701	ELIZ_T1	1	1	0	2.2	3.1	0.9	0.98	0.95	0	0	0	0	0	0
8/4/2024 22:08	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/4/2024 22:08	64302	LINC_T2	1	2	1	0.6	0.7	0.1	1.28	1.28	0	0	0	0	0	0
8/4/2024 22:09	65802	RTWN_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
8/4/2024 22:09	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/4/2024 22:09	67702	WERN_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
8/4/2024 22:09	29402	BELT_T1	1	1	0	9.2	9.1	-0.1	0	0	0	0	0	0	0	0
8/4/2024 22:09	60901	DONG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:10	65604	QVIL_T2	0	1	1	0	0	0	0.73	0.7	0	0	0	0	0	0
8/4/2024 22:10	15703	TANN_T2	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
8/4/2024 22:10	51304	WIND_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
8/4/2024 22:10	15702	TANN_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
8/4/2024 22:10	29402	BELT_T1	1	1	0	9.2	9.1	-0.1	0	0	0	0	0	0	0	0
8/4/2024 22:11	56504	ROCK_T2	0	0	0	0	0	0	-0.61	-0.68	0	0	0	0	0	0
8/4/2024 22:11	56501	ROCK_T2	70	109	39	0.18	0.24	0.06	0	0	0	0	0	0	0	0
8/4/2024 22:11	22901	HARW_T1	0	0	0	0	0	0	-1.79	-1.69	1	1	0	1200	1200	0
8/4/2024 22:11	58801	COCO_T2	0	0	0	0	0	0	-1.52	-1.51	2	2	0	2400	2400	0
8/4/2024 22:11	15603	NSTR_T2	0	0	0	0	0	0	-1.04	-1.01	0	0	0	0	0	0
8/4/2024 22:11	51804	EBEN_T2	0	0	0	0	0	0	-0.88	-0.89	1	1	0	900	900	0
8/4/2024 22:11	22905	HARW_T1	35	38	3	1.83	0.68	-1.15	0	0	0	0	0	0	0	0
8/4/2024 22:11	65001	NEFF_T2	0	0	0	0	0	0	-0.65	-0.66	1	1	0	1200	1200	0
8/4/2024 22:11	61702	ELIZ_T2	0	0	0	0	0	0	-1.36	-1.39	2	2	0	1500	1500	0
8/4/2024 22:11	16402	MOPO_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
8/4/2024 22:11	22903	HARW_T1	21	22	1	1.91	0.55	-1.36	0	0	0	0	0	0	0	0
8/4/2024 22:11	15601	NSTR_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
8/4/2024 22:11	65003	NEFF_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
8/4/2024 22:12	52202	DEVO_T2	0	0	0	0	0	0	-1.92	-1.97	0	0	0	0	0	0
8/4/2024 22:12	63804	HEMP_T1	1	1	0	6.3	6.1	-0.2	-0.05	0.26	0	0	0	0	0	0
8/4/2024 22:12	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/4/2024 22:12	47802	MOCA_T2	0	0	0	0	0	0	-0.59	-0.56	0	0	0	0	0	0
8/4/2024 22:12	52004	LING_T2	2	2	0	4.35	4.55	0.2	0	0	0	0	0	0	0	0
8/4/2024 22:12	51401	LYKE_T1	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
8/4/2024 22:12	64302	LINC_T2	1	2	1	0.6	0.7	0.1	1.28	1.28	0	0	0	0	0	0
8/4/2024 22:12	52204	DEVO_T2	3	0	-3	1	0.43	-0.57	0	0	0	0	0	0	0	0
8/4/2024 22:12	25402	LAHA_T2	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
8/4/2024 22:12	52002	LING_T2	0	0	0	0	0	0	-0.15	-0.25	0	0	0	0	0	0
8/4/2024 22:12	15604	NSTR_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
8/4/2024 22:12	51402	LYKE_T1	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
8/4/2024 22:12	29402	BELT_T1	1	1	0	9.2	9.1	-0.1	0	0	0	0	0	0	0	0
8/4/2024 22:13	56502	ROCK_T2	70	109	39	0.18	0.24	0.06	-1.82	-1.85	0	0	0	0	0	0
8/4/2024 22:13	67603	WARW_T1	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
8/4/2024 22:13	41702	LOGA_T2	19	78	59	0.15	0.28	0.13	0	0	0	0	0	0	0	0
8/4/2024 22:13	61701	ELIZ_T1	1	1	0	2.6	3.3	0.7	0.95	1.05	0	0	0	0	0	0
8/4/2024 22:13	13503	MCMI_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
8/4/2024 22:13	63402	HONY_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
8/4/2024 22:13	63403	HONY_T2	0	0	0	0	0	0	0.07	0.1	0	0	0	0	0	0
8/4/2024 22:14	63306	GREE_T1	0	40	40	0	0.18	0.18	0	0	0	0	0	0	0	0
8/4/2024 22:14	67503	WEWI_T2	2	1	-1	1.5	4	2.5	-0.18	-0.24	0	0	0	0	0	0
8/4/2024 22:14	56504	ROCK_T2	0	0	0	0	0	0	-0.61	-0.68	0	0	0	0	0	0
8/4/2024 22:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
8/4/2024 22:14	29402	BELT_T1	1	1	0	9.2	9.1	-0.1	0	0	0	0	0	0	0	0
8/4/2024 22:14	13503	MCMI_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
8/4/2024 22:14	56501	ROCK_T2	70	109	39	0.18	0.24	0.06	-1.82	-1.85	0	0	0	0	0	0
8/4/2024 22:14	51604	DUKE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:14	47101	MARL_T1	18	29	11	0.99	1.16	0.17	-0.85	-0.54	1	0	-1	600	0	-600
8/4/2024 22:14	15702	TANN_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
8/4/2024 22:14	63301	GREE_T1	0	7	7	0	0.27	0.27	0	0	0	0	0	0	0	0
8/4/2024 22:14	63302	GREE_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
8/4/2024 22:14	57601	RUTH_T2	0	0	0	0	0	0	-1.95	-1.53	1	1	0	900	900	0
8/4/2024 22:14	52004	LING_T2	2	2	0	4.35	4.55	0.2	0.15	0.09	0	0	0	0	0	0
8/4/2024 22:14	15703	TANN_T2	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
8/4/2024 22:14	61102	BERK_T5	0	0	0	0	0	0	0.34	0.24	1	1	0	300	300	0
8/4/2024 22:14	63305	GREE_T1	15	30	15	0.37	0.54	0.17	-1.96	-1.87	1	1	0	900	900	0
8/4/2024 22:14	67502	WEWI_T2	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/4/2024 22:14	51602	DUKE_T2	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
8/4/2024 22:15	16402	MOPO_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
8/4/2024 22:15	53903	HALI_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/4/2024 22:15	64101	REFR_T1	0	0	0	0	0	0	-0.11	0.46	0	0	0	0	0	0
8/4/2024 22:15	61505	EPET_T1	0	0	0	0	0	0	1.26	1.26	0	0	0	0	0	0
8/4/2024 22:15	46101	MACI_T2	0	0	0	0	0	0	-0.52	-0.52	1	1	0	1200	1200	0
8/4/2024 22:15	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/4/2024 22:15	55101	WERT_T1	0	0	0	0	0	0	-2.58	-1.72	4	3	-1	3300	2400	-900
8/4/2024 22:15	67602	WARW_T2	0	0	0	0	0	0	0.86	0.85	2	2	0	1500	1500	0
8/4/2024 22:15	53902	HALI_T2	1	1	0	4.8	5.6	0.8	-0.72	-0.69	0	0	0	0	0	0
8/4/2024 22:15	52002	LING_T2	0	0	0	0	0	0	-0.15	-0.25	0	0	0	0	0	0
8/4/2024 22:15	52004	LING_T2	2	2	0	4.55	4.4	-0.15	0	0	0	0	0	0	0	0
8/4/2024 22:15	67502	WEWI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/4/2024 22:15	67503	WEWI_T2	1	1	0	3.4	4.2	0.8	-0.18	-0.24	0	0	0	0	0	0
8/4/2024 22:16	47402	PENS_T1	9	2	-7	1	0	-1	0	0	0	0	0	0	0	0
8/4/2024 22:16	67602	WARW_T2	0	0	0	0	0	0	0.86	0.85	2	2	0	1500	1500	0
8/4/2024 22:16	61703	ELIZ_T1	0	0	0	0	0	0	-2.48	-2.52	2	2	0	2100	2100	0
8/4/2024 22:16	54602	SUMM_T2	0	0	0	0	0	0	-1.94	-1.97	1	1	0	600	600	0
8/4/2024 22:16	63402	HONY_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/4/2024 22:16	47001	HUGH_T2	3	3	0	5.9	6.93	1.03	-1.26	-1.24	1	1	0	900	900	0
8/4/2024 22:16	45501	DERR_T2	0	1	1	0	0	0	-0.07	-0.12	2	2	0	1800	1800	0
8/4/2024 22:16	45302	WBER_T2	0	0	0	0	0	0	1.39	1.37	0	0	0	0	0	0
8/4/2024 22:16	63403	HONY_T2	0	0	0	0	0	0	0.07	0.1	0	0	0	0	0	0
8/4/2024 22:16	61701	ELIZ_T1	1	1	0	3.1	3.6	0.5	0	0	0	0	0	0	0	0
8/4/2024 22:16	15604	NSTR_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
8/4/2024 22:16	47401	PENS_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
8/4/2024 22:16	42601	TUSC_T1	0	0	0	0	0	0	-1.27	-1.25	2	2	0	1800	1800	0
8/4/2024 22:17	42201	SHEN_T2	0	0	0	0	0	0	0.19	0.17	1	1	0	600	600	0
8/4/2024 22:17	51202	MTON_T2	0	0	0	0	0	0	-0.73	-0.75	1	1	0	1200	1200	0
8/4/2024 22:17	67605	WARW_T1	0	4	4	0	1.17	1.17	-0.42	-0.47	0	0	0	0	0	0
8/4/2024 22:17	22905	HARW_T1	30	38	8	1.05	0.71	-0.34	0	0	0	0	0	0	0	0
8/4/2024 22:17	66902	SHIL_T2	71	1	-70	0.25	0.5	0.25	0	0	0	0	0	0	0	0
8/4/2024 22:17	44203	POIN_T2	0	0	0	0	0	0	-0.87	-0.98	2	2	0	2100	2100	0
8/4/2024 22:17	66903	SHIL_T2	32	13	-19	0.25	0.12	-0.13	0	0	0	0	0	0	0	0
8/4/2024 22:17	63306	GREE_T1	3	40	37	0.1	0.18	0.08	0	0	0	0	0	0	0	0
8/4/2024 22:17	22903	HARW_T1	21	22	1	0.98	0.55	-0.43	0	0	0	0	0	0	0	0
8/4/2024 22:17	20601	GRWO_T2	85	73	-12	0.57	0.45	-0.12	1.82	1.82	0	0	0	0	0	0
8/4/2024 22:17	54601	SUMM_T2	0	0	0	0	0	0	-1.31	-1.34	2	2	0	2100	2100	0
8/4/2024 22:17	66901	SHIL_T2	258	190	-68	0.47	0.29	-0.18	-0.95	-0.95	1	1	0	1200	1200	0
8/4/2024 22:17	53903	HALI_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/4/2024 22:17	63301	GREE_T1	3	7	4	0.17	0.27	0.1	0	0	0	0	0	0	0	0
8/4/2024 22:17	42902	MIDD_T2	0	0	0	0	0	0	-0.99	-1	1	1	0	600	600	0
8/4/2024 22:17	42901	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/4/2024 22:17	63302	GREE_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
8/4/2024 22:17	46001	BERW_T1	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
8/4/2024 22:17	53902	HALI_T2	1	1	0	4.8	5.6	0.8	-0.72	-0.69	0	0	0	0	0	0
8/4/2024 22:17	55001	NEWP_T1	0	0	0	0	0	0	-0.47	-0.51	1	1	0	600	600	0
8/4/2024 22:17	44801	EDAN_T2	1	1	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
8/4/2024 22:17	63305	GREE_T1	20	30	10	0.52	0.54	0.02	-1.96	-1.87	1	1	0	900	900	0
8/4/2024 22:17	44802	EDAN_T2	0	0	0	0	0	0	-1.55	-1.61	0	0	0	0	0	0
8/4/2024 22:17	46802	HEPB_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
8/4/2024 22:17	22901	HARW_T1	0	0	0	0	0	0	-1.79	-1.69	1	1	0	1200	1200	0
8/4/2024 22:17	41802	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:17	55002	NEWP_T1	3	4	1	0.33	0.63	0.3	0	0	0	0	0	0	0	0
8/4/2024 22:17	40201	BEGA_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/4/2024 22:17	44202	POIN_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/4/2024 22:17	52004	LING_T2	2	2	0	4.55	4.4	-0.15	0.15	0.09	0	0	0	0	0	0
8/4/2024 22:18	46203	DANV_T2	0	6	6	0	0.13	0.13	-2.42	-2.41	0	0	0	0	0	0
8/4/2024 22:18	53903	HALI_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/4/2024 22:18	40201	BEGA_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/4/2024 22:18	51402	LYKE_T1	1	7	6	0.1	0.13	0.03	-1.85	-1.87	2	2	0	1200	1200	0
8/4/2024 22:18	22905	HARW_T1	30	38	8	1.05	0.71	-0.34	0	0	0	0	0	0	0	0
8/4/2024 22:18	47101	MARL_T1	17	41	24	1.1	1.09	-0.01	-0.85	-0.54	1	0	-1	600	0	-600
8/4/2024 22:18	46206	DANV_T2	4	2	-2	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
8/4/2024 22:18	40101	HUNT_T2	4	6	2	0.75	0.8	0.05	-1.09	-0.82	0	0	0	0	0	0
8/4/2024 22:18	44801	EDAN_T2	1	1	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
8/4/2024 22:18	52004	LING_T2	2	2	0	4.55	4.4	-0.15	0	0	0	0	0	0	0	0
8/4/2024 22:18	53901	HALI_T2	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
8/4/2024 22:18	44802	EDAN_T2	0	0	0	0	0	0	-1.55	-1.61	0	0	0	0	0	0
8/4/2024 22:18	63302	GREE_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
8/4/2024 22:18	56504	ROCK_T2	0	0	0	0	0	0	-0.61	-0.68	0	0	0	0	0	0
8/4/2024 22:18	42701	AUGU_T1	12	8	-4	0.57	0.6	0.03	0	0	4	4	0	3600	3600	0
8/4/2024 22:18	15702	TANN_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
8/4/2024 22:18	53902	HALI_T2	1	1	0	4.8	5.6	0.8	-0.72	-0.69	0	0	0	0	0	0
8/4/2024 22:18	63306	GREE_T1	3	40	37	0.1	0.18	0.08	0	0	0	0	0	0	0	0
8/4/2024 22:18	63301	GREE_T1	3	7	4	0.17	0.27	0.1	0	0	0	0	0	0	0	0
8/4/2024 22:18	40302	TAMA_T3	0	0	0	0	0	0	-1.07	-1.1	0	0	0	0	0	0
8/4/2024 22:18	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:18	63305	GREE_T1	20	30	10	0.52	0.54	0.02	0	0	0	0	0	0	0	0
8/4/2024 22:18	22903	HARW_T1	21	22	1	0.98	0.55	-0.43	0	0	0	0	0	0	0	0
8/4/2024 22:18	56501	ROCK_T2	74	197	123	0.21	0.31	0.1	-1.82	-1.85	0	0	0	0	0	0
8/4/2024 22:18	52002	LING_T2	0	0	0	0	0	0	-0.15	-0.25	0	0	0	0	0	0
8/4/2024 22:18	15703	TANN_T2	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
8/4/2024 22:18	64101	REFR_T1	0	0	0	0	0	0	-0.23	0.91	0	0	0	0	0	0
8/4/2024 22:18	61801	EELI_T2	1	1	0	0.2	0	-0.2	0.46	0.46	0	0	0	0	0	0
8/4/2024 22:18	61703	ELIZ_T1	0	0	0	0	0	0	-2.48	-2.52	2	2	0	2100	2100	0
8/4/2024 22:18	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:18	63304	GREE_T1	0	0	0	0	0	0	-1	-1.07	0	0	0	0	0	0
8/4/2024 22:18	22901	HARW_T1	0	0	0	0	0	0	-3.58	-3.38	2	2	0	2400	2400	0
8/4/2024 22:18	61701	ELIZ_T1	1	1	0	3.1	3.6	0.5	0	0	0	0	0	0	0	0
8/4/2024 22:19	67602	WARW_T2	0	0	0	0	0	0	0.86	0.85	2	2	0	1500	1500	0
8/4/2024 22:19	55101	WERT_T1	0	0	0	0	0	0	-2.58	-1.72	4	3	-1	3300	2400	-900
8/4/2024 22:19	64305	LINC_T1	0	0	0	0	0	0	0	-0.45	0	0	0	0	0	0
8/4/2024 22:19	42802	SELI_T1	0	1	1	0	0.2	0.2	-2.06	-2	0	0	0	0	0	0
8/4/2024 22:19	20402	ASHF_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/4/2024 22:19	57702	PAXT_T1	0	0	0	0	0	0	-1.19	-1.21	0	0	0	0	0	0
8/4/2024 22:19	47402	PENS_T1	9	2	-7	1	0	-1	0	0	0	0	0	0	0	0
8/4/2024 22:19	43103	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 22:19	51602	DUKE_T2	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
8/4/2024 22:19	56504	ROCK_T2	0	0	0	0	0	0	-0.61	-0.68	0	0	0	0	0	0
8/4/2024 22:19	52501	PROG_T1	5	13	8	0.14	0.12	-0.02	-0.78	-0.81	1	1	0	300	300	0
8/4/2024 22:19	53601	DALM_T2	0	1	1	0	0.3	0.3	-0.17	-0.03	0	0	0	0	0	0
8/4/2024 22:19	47401	PENS_T1	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
8/4/2024 22:19	43104	SMIL_T2	0	0	0	0	0	0	-0.45	-0.47	1	1	0	300	300	0
8/4/2024 22:19	63401	HONY_T1	0	0	0	0	0	0	0.86	0.53	0	0	0	0	0	0
8/4/2024 22:19	56501	ROCK_T2	74	197	123	0.21	0.31	0.1	-7.29	-7.39	0	0	0	0	0	0
8/4/2024 22:19	53501	EVIL_T2	0	2	2	0	0.35	0.35	-0.28	-0.25	1	1	0	600	600	0
8/4/2024 22:19	20802	LOPO_T1	0	0	0	0	0	0	-0.99	-1.03	1	1	0	600	600	0
8/4/2024 22:19	20403	ASHF_T2	0	1	1	0	0	0	0.72	0.77	0	0	0	0	0	0
8/4/2024 22:19	51604	DUKE_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/4/2024 22:19	52504	PROG_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 22:19	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:19	20401	ASHF_T2	2	2	0	0.75	0.2	-0.55	0	0	0	0	0	0	0	0
8/4/2024 22:20	44802	EDAN_T2	0	0	0	0	0	0	-3.11	-3.21	0	0	0	0	0	0
8/4/2024 22:20	20403	ASHF_T2	0	1	1	0	0	0	1.45	1.54	0	0	0	0	0	0
8/4/2024 22:20	61202	REIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/4/2024 22:20	58803	COCO_T1	1	1	0	0.3	0.7	0.4	-0.96	-0.98	1	1	0	600	600	0
8/4/2024 22:20	44801	EDAN_T2	1	1	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
8/4/2024 22:20	67103	SPRI_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
8/4/2024 22:20	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:20	43304	WATS_T2	3	6	3	0.23	0.25	0.02	0	0	0	0	0	0	0	0
8/4/2024 22:20	56504	ROCK_T2	0	0	0	0	0	0	-0.61	-0.68	0	0	0	0	0	0
8/4/2024 22:20	20402	ASHF_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/4/2024 22:20	20401	ASHF_T2	2	2	0	0.75	0.2	-0.55	0	0	0	0	0	0	0	0
8/4/2024 22:20	46206	DANV_T2	4	2	-2	0.55	0.5	-0.05	0	-0.03	2	2	0	2100	2100	0
8/4/2024 22:20	43301	WATS_T2	0	1	1	0	0.2	0.2	-0.22	-0.23	1	1	0	900	900	0
8/4/2024 22:20	67602	WARW_T2	0	0	0	0	0	0	0.86	0.85	2	2	0	1500	1500	0
8/4/2024 22:20	56601	HAMP_T1	0	0	0	0	0	0	-0.8	-0.96	0	0	0	0	0	0
8/4/2024 22:20	55001	NEWP_T1	0	0	0	0	0	0	-0.47	-0.51	1	1	0	600	600	0
8/4/2024 22:20	20601	GRWO_T2	85	73	-12	0.57	0.45	-0.12	0.91	0.91	0	0	0	0	0	0
8/4/2024 22:20	43103	SMIL_T2	0	1	1	0	0.1	0.1	-2.92	-2.97	0	0	0	0	0	0
8/4/2024 22:20	46203	DANV_T2	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
8/4/2024 22:20	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:20	45501	DERR_T2	0	1	1	0	0	0	-0.13	-0.25	4	4	0	3600	3600	0
8/4/2024 22:20	43108	SMIL_T2	0	0	0	0	0	0	-0.97	-0.96	1	1	0	1200	1200	0
8/4/2024 22:20	56501	ROCK_T2	74	197	123	0.21	0.31	0.1	0	0	0	0	0	0	0	0
8/4/2024 22:20	55002	NEWP_T1	3	4	1	0.33	0.63	0.3	0	0	0	0	0	0	0	0
8/4/2024 22:20	51604	DUKE_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/4/2024 22:20	51602	DUKE_T2	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
8/4/2024 22:20	65205	PRIN_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
8/4/2024 22:20	25503	MADI_T1	0	36	36	0	0.15	0.15	-0.56	-0.6	0	0	0	0	0	0
8/4/2024 22:21	55001	NEWP_T1	0	0	0	0	0	0	-0.47	-0.51	1	1	0	600	600	0
8/4/2024 22:21	25801	SUTR_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
8/4/2024 22:21	67801	WLAN_T1	0	4	4	0	0	0	-0.4	-0.44	0	0	0	0	0	0
8/4/2024 22:21	57104	SPHI_T2	0	0	0	0	0	0	-1.1	-1.17	1	1	0	900	900	0
8/4/2024 22:21	67804	WLAN_T1	10	10	0	0.47	0.38	-0.09	0	0	0	0	0	0	0	0
8/4/2024 22:21	42701	AUGU_T1	12	8	-4	0.57	0.6	0.03	0	0	2	2	0	1800	1800	0
8/4/2024 22:21	44302	BEAV_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
8/4/2024 22:21	20603	GRWO_T2	0	0	0	0	0	0	-0.33	-0.33	1	1	0	900	900	0
8/4/2024 22:21	57101	SPHI_T2	6	0	-6	0.5	0.57	0.07	0	0	0	0	0	0	0	0
8/4/2024 22:21	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:21	20601	GRWO_T2	85	73	-12	0.57	0.45	-0.12	0	0	0	0	0	0	0	0
8/4/2024 22:21	56501	ROCK_T2	74	197	123	0.21	0.31	0.1	-3.65	-3.7	0	0	0	0	0	0
8/4/2024 22:21	55101	WERT_T1	0	0	0	0	0	0	-2.58	-1.72	4	3	-1	3300	2400	-900
8/4/2024 22:21	63401	HONY_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
8/4/2024 22:21	61703	ELIZ_T1	0	0	0	0	0	0	-2.52	-2.57	2	2	0	2100	2100	0
8/4/2024 22:21	51602	DUKE_T2	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
8/4/2024 22:21	64101	REFR_T1	0	0	0	0	0	0	0.91	0.9	0	0	0	0	0	0
8/4/2024 22:21	46102	MACI_T1	0	0	0	0	0	0	0.84	0.82	0	0	0	0	0	0
8/4/2024 22:21	61701	ELIZ_T1	1	1	0	3.1	3.6	0.5	0	0	0	0	0	0	0	0
8/4/2024 22:21	57106	SPHI_T2	3	3	0	0.77	0.9	0.13	0	0	0	0	0	0	0	0
8/4/2024 22:21	51604	DUKE_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/4/2024 22:21	61102	BERK_T5	0	0	0	0	0	0	0.24	0.17	1	1	0	300	300	0
8/4/2024 22:21	55002	NEWP_T1	3	4	1	0.33	0.63	0.3	0	0	0	0	0	0	0	0
8/4/2024 22:21	53501	EVIL_T2	0	2	2	0	0.35	0.35	-0.56	-0.49	2	2	0	1200	1200	0
8/4/2024 22:22	43802	SWIL_T1	0	0	0	0	0	0	0.43	0.39	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/4/2024 22:22	59101	WALK_T2	0	0	0	0	0	0	0.77	0.81	2	2	0	1200	1200	0
8/4/2024 22:22	42901	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/4/2024 22:22	65603	QVIL_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
8/4/2024 22:22	58401	MORO_T1	0	1	1	0	0	0	-0.39	-0.42	1	1	0	600	600	0
8/4/2024 22:22	46203	DANV_T2	0	6	6	0	0.13	0.13	-2.41	-2.46	0	0	0	0	0	0
8/4/2024 22:22	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:22	52401	GRPA_T2	0	1	1	0	0.5	0.5	-0.27	-0.3	0	0	0	0	0	0
8/4/2024 22:22	44203	POIN_T2	0	0	0	0	0	0	-0.98	-0.96	2	2	0	2100	2100	0
8/4/2024 22:22	61202	REIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/4/2024 22:22	53902	HALI_T2	1	1	0	4.8	5.6	0.8	-0.69	-0.7	0	0	0	0	0	0
8/4/2024 22:22	46506	LOHA_T1	2	2	0	0.2	0.15	-0.05	-1.77	-1.8	1	1	0	1200	1200	0
8/4/2024 22:22	43801	SWIL_T1	7	13	6	1.01	0.65	-0.36	0	0	0	0	0	0	0	0
8/4/2024 22:22	46504	LOHA_T1	2	2	0	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
8/4/2024 22:22	47401	PENS_T1	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
8/4/2024 22:22	43202	MVIL_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
8/4/2024 22:22	52004	LING_T2	2	2	0	4.55	4.4	-0.15	0	0	0	0	0	0	0	0
8/4/2024 22:22	56501	ROCK_T2	74	197	123	0.21	0.31	0.1	-1.85	-1.9	0	0	0	0	0	0
8/4/2024 22:22	42902	MIDD_T2	0	0	0	0	0	0	-1	-1.03	1	1	0	600	600	0
8/4/2024 22:22	42802	SELI_T1	0	1	1	0	0.2	0.2	-1	-1.06	0	0	0	0	0	0
8/4/2024 22:22	44202	POIN_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/4/2024 22:22	67605	WARW_T1	0	4	4	0	1.17	1.17	-0.47	-1.09	0	0	0	0	0	0
8/4/2024 22:22	53501	EVIL_T2	0	2	2	0	0.35	0.35	-0.25	-0.22	1	1	0	600	600	0
8/4/2024 22:22	65604	QVIL_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/4/2024 22:22	46206	DANV_T2	4	2	-2	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
8/4/2024 22:22	52002	LING_T2	0	0	0	0	0	0	-0.25	-0.22	0	0	0	0	0	0
8/4/2024 22:22	47402	PENS_T1	9	2	-7	1	0	-1	0	0	0	0	0	0	0	0
8/4/2024 22:22	53903	HALI_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/4/2024 22:22	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 22:22	45501	DERR_T2	0	1	1	0	0	0	-0.12	-0.12	2	2	0	1800	1800	0
8/4/2024 22:22	40201	BEGA_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/4/2024 22:22	47001	HUGH_T2	3	3	0	5.9	6.93	1.03	-1.24	-1.31	1	1	0	900	900	0
8/4/2024 22:22	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 22:22	46501	LOHA_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
8/4/2024 22:22	27005	BELL_T1	0	0	0	0	0	0	-1.1	-1.15	0	0	0	0	0	0
8/4/2024 22:23	44301	BEAV_T2	0	0	0	0	0	0	-1.1	-1.13	1	1	0	600	600	0
8/4/2024 22:23	63804	HEMP_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
8/4/2024 22:23	46506	LOHA_T1	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/4/2024 22:23	46501	LOHA_T1	1	0	-1	2	0	-2	0.42	0.4	1	1	0	1200	1200	0
8/4/2024 22:23	63401	HONY_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
8/4/2024 22:23	47401	PENS_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
8/4/2024 22:23	46504	LOHA_T1	2	2	0	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
8/4/2024 22:23	54701	NEBL_T1	1	1	0	0.9	1	0.1	0	0	1	1	0	600	600	0
8/4/2024 22:23	47402	PENS_T1	9	2	-7	1	0	-1	0	0	0	0	0	0	0	0
8/4/2024 22:23	45502	DERR_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
8/4/2024 22:23	64101	REFR_T1	0	0	0	0	0	0	0.91	0.9	0	0	0	0	0	0
8/4/2024 22:23	45501	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:23	63801	HEMP_T1	0	0	0	0	0	0	0.34	0.44	0	0	0	0	0	0
8/4/2024 22:23	65603	QVIL_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
8/4/2024 22:23	67602	WARW_T2	0	0	0	0	0	0	2.56	2.43	6	6	0	4500	4500	0
8/4/2024 22:23	65604	QVIL_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/4/2024 22:23	47101	MARL_T1	17	41	24	1.1	1.09	-0.01	-0.54	-0.3	0	0	0	0	0	0
8/4/2024 22:23	56501	ROCK_T2	74	197	123	0.21	0.31	0.1	-3.7	-3.8	0	0	0	0	0	0
8/4/2024 22:23	29402	BELT_T1	1	1	0	9.1	8.8	-0.3	0	0	0	0	0	0	0	0
8/4/2024 22:23	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/4/2024 22:24	56501	ROCK_T2	74	197	123	0.21	0.31	0.1	-1.85	-1.9	0	0	0	0	0	0
8/4/2024 22:24	59101	WALK_T2	0	0	0	0	0	0	1.54	1.61	4	4	0	2400	2400	0
8/4/2024 22:24	42802	SELI_T1	0	1	1	0	0.2	0.2	-1	-1.06	0	0	0	0	0	0
8/4/2024 22:24	52004	LING_T2	2	2	0	4.55	4.4	-0.15	0	0	0	0	0	0	0	0
8/4/2024 22:24	40602	PIGR_T1	0	0	0	0	0	0	-1.28	-1.32	1	1	0	600	600	0
8/4/2024 22:24	45501	DERR_T2	0	1	1	0	0	0	-0.12	-0.12	2	2	0	1800	1800	0
8/4/2024 22:24	43202	MVIL_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
8/4/2024 22:24	20403	ASHF_T2	0	1	1	0	0	0	0.77	0.76	0	0	0	0	0	0
8/4/2024 22:24	58701	ROSE_T2	0	0	0	0	0	0	-1.72	-1.78	1	1	0	600	600	0
8/4/2024 22:24	43103	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 22:24	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 22:24	52002	LING_T2	0	0	0	0	0	0	-0.49	-0.44	0	0	0	0	0	0
8/4/2024 22:24	58203	NEWV_T2	1	1	0	4.7	5.6	0.9	-0.96	-1	0	0	0	0	0	0
8/4/2024 22:24	43104	SMIL_T2	0	0	0	0	0	0	-0.47	-0.48	1	1	0	300	300	0
8/4/2024 22:24	26401	INOR_T1	1	1	0	7.2	7.8	0.6	0	0	0	0	0	0	0	0
8/4/2024 22:24	58706	ROSE_T2	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
8/4/2024 22:24	41002	LAUR_T2	44	37	-7	0.22	0.21	-0.01	-0.22	-0.23	0	0	0	0	0	0
8/4/2024 22:24	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/4/2024 22:24	43101	SMIL_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
8/4/2024 22:24	13503	MCMI_T2	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
8/4/2024 22:24	41901	REED_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/4/2024 22:24	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:24	40902	JESH_T1	0	0	0	0	0	0	-1.4	-0.86	2	1	-1	1200	600	-600
8/4/2024 22:24	51804	EBEN_T2	0	0	0	0	0	0	-0.89	-0.92	1	1	0	900	900	0
8/4/2024 22:24	42002	MNVL_T2	1	1	0	3.1	2.8	-0.3	0	0	0	0	0	0	0	0
8/4/2024 22:24	40901	JESH_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
8/4/2024 22:24	26402	INOR_T1	0	0	0	0	0	0	-1.03	-1.03	0	0	0	0	0	0
8/4/2024 22:24	41001	LAUR_T2	1	36	35	0.1	0.17	0.07	0	0	0	0	0	0	0	0
8/4/2024 22:24	63804	HEMP_T1	1	1	0	6.1	6.1	0	0.26	0.26	0	0	0	0	0	0
8/4/2024 22:24	42001	MNVL_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
8/4/2024 22:24	55002	NEWP_T1	3	4	1	0.33	0.63	0.3	0	0	0	0	0	0	0	0
8/4/2024 22:24	58705	ROSE_T2	5	5	0	1.54	1.9	0.36	0	0	0	0	0	0	0	0
8/4/2024 22:24	51202	MTON_T2	0	0	0	0	0	0	-0.75	-0.78	1	1	0	1200	1200	0
8/4/2024 22:24	61703	ELIZ_T1	0	0	0	0	0	0	-2.52	-2.57	2	2	0	2100	2100	0
8/4/2024 22:24	41902	REED_T1	2	0	-2	0.2	0	-0.2	0.33	0.3	1	1	0	900	900	0
8/4/2024 22:24	58803	COCO_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/4/2024 22:24	61701	ELIZ_T1	1	1	0	3.1	3.6	0.5	0	0	0	0	0	0	0	0
8/4/2024 22:24	20401	ASHF_T2	2	2	0	0.75	0.2	-0.55	0	0	0	0	0	0	0	0
8/4/2024 22:24	20402	ASHF_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/4/2024 22:24	55001	NEWP_T1	0	0	0	0	0	0	-0.51	-0.54	1	1	0	600	600	0
8/4/2024 22:25	40101	HUNT_T2	4	6	2	0.75	0.8	0.05	-0.82	-0.85	0	0	0	0	0	0
8/4/2024 22:25	58803	COCO_T1	1	1	0	0.3	0.7	0.4	-0.98	-1.04	1	1	0	600	600	0
8/4/2024 22:25	46302	ROHR_T1	3	5	2	0.9	0.85	-0.05	0.35	0.35	0	0	0	0	0	0
8/4/2024 22:25	43103	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 22:25	52004	LING_T2	2	2	0	4.55	4.4	-0.15	0	0	0	0	0	0	0	0
8/4/2024 22:25	43104	SMIL_T2	0	0	0	0	0	0	-0.47	-0.48	1	1	0	300	300	0
8/4/2024 22:25	46203	DANV_T2	0	6	6	0	0.13	0.13	-4.83	-4.92	0	0	0	0	0	0
8/4/2024 22:25	52202	DEVO_T2	0	1	1	0	0	0	-3.95	-1.56	0	0	0	0	0	0
8/4/2024 22:25	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
8/4/2024 22:25	42701	AUGU_T1	12	8	-4	0.57	0.6	0.03	0	0	2	2	0	1800	1800	0
8/4/2024 22:25	55001	NEWP_T1	0	0	0	0	0	0	-0.51	-0.54	1	1	0	600	600	0
8/4/2024 22:25	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:25	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:25	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:25	47101	MARL_T1	17	41	24	1.1	1.09	-0.01	-0.54	-0.3	0	0	0	0	0	0
8/4/2024 22:25	55002	NEWP_T1	3	4	1	0.33	0.63	0.3	0	0	0	0	0	0	0	0
8/4/2024 22:25	42301	MOWR_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
8/4/2024 22:25	42802	SELI_T1	0	1	1	0	0.2	0.2	-1	-1.06	0	0	0	0	0	0
8/4/2024 22:25	42503	ALTA_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
8/4/2024 22:25	52002	LING_T2	0	0	0	0	0	0	-0.25	-0.22	0	0	0	0	0	0
8/4/2024 22:25	67605	WARW_T1	0	4	4	0	1.17	1.17	-0.47	-1.09	0	0	0	0	0	0
8/4/2024 22:25	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:25	52204	DEVO_T2	3	4	1	0.93	0.43	-0.5	0	0	0	0	0	0	0	0
8/4/2024 22:25	44302	BEAV_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
8/4/2024 22:25	46206	DANV_T2	4	2	-2	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
8/4/2024 22:26	59003	MIFF_T1	1	1	0	0.2	0.4	0.2	-0.38	-0.45	0	0	0	0	0	0
8/4/2024 22:26	59002	MIFF_T1	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/4/2024 22:26	54001	SDLE_T1	1	1	0	0.2	0.5	0.3	0	0	1	1	0	600	600	0
8/4/2024 22:26	58401	MORO_T1	0	1	1	0	0	0	-0.39	-0.42	1	1	0	600	600	0
8/4/2024 22:26	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:26	46206	DANV_T2	4	2	-2	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
8/4/2024 22:26	55101	WERT_T1	0	0	0	0	0	0	-3.44	-3.43	6	6	0	4800	4800	0
8/4/2024 22:26	64101	REFR_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
8/4/2024 22:26	42901	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/4/2024 22:26	64201	KINZ_T1	1	1	0	0.5	1.6	1.1	0	0	0	0	0	0	0	0
8/4/2024 22:26	42301	MOWR_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
8/4/2024 22:26	64202	KINZ_T1	2	3	1	0.35	0.53	0.18	0	0	0	0	0	0	0	0
8/4/2024 22:26	42802	SELI_T1	0	1	1	0	0.2	0.2	-1	-1.06	0	0	0	0	0	0
8/4/2024 22:26	64203	KINZ_T1	0	0	0	0	0	0	0.04	0.05	1	1	0	600	600	0
8/4/2024 22:26	64204	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
8/4/2024 22:26	40602	PIGR_T1	0	0	0	0	0	0	-1.28	-1.32	1	1	0	600	600	0
8/4/2024 22:26	57702	PAXT_T1	0	0	0	0	0	0	-1.21	-1.27	0	0	0	0	0	0
8/4/2024 22:26	44302	BEAV_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
8/4/2024 22:26	42902	MIDD_T2	0	0	0	0	0	0	-1	-1.03	1	1	0	600	600	0
8/4/2024 22:26	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:26	46001	BERW_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
8/4/2024 22:26	64305	LINC_T1	0	0	0	0	0	0	-0.45	-0.11	0	0	0	0	0	0
8/4/2024 22:26	46203	DANV_T2	0	6	6	0	0.13	0.13	-2.41	-2.46	0	0	0	0	0	0
8/4/2024 22:27	41901	REED_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/4/2024 22:27	45501	DERR_T2	0	1	1	0	0	0	-0.25	-0.23	4	4	0	3600	3600	0
8/4/2024 22:27	53601	DALM_T2	0	1	1	0	0.3	0.3	-0.02	0.2	0	0	0	0	0	0
8/4/2024 22:27	44202	POIN_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/4/2024 22:27	41902	REED_T1	2	0	-2	0.2	0	-0.2	0.33	0.3	1	1	0	900	900	0
8/4/2024 22:27	52202	DEVO_T2	0	1	1	0	0	0	-1.97	-0.78	0	0	0	0	0	0
8/4/2024 22:27	46203	DANV_T2	0	6	6	0	0.13	0.13	-4.83	-4.92	0	0	0	0	0	0
8/4/2024 22:27	20403	ASHF_T2	0	1	1	0	0	0	0.77	0.76	0	0	0	0	0	0
8/4/2024 22:27	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 22:27	46206	DANV_T2	4	2	-2	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
8/4/2024 22:27	61002	DONV_T2	0	0	0	0	0	0	-0.09	-0.05	1	1	0	600	600	0
8/4/2024 22:27	55001	NEWP_T1	0	0	0	0	0	0	-0.51	-0.54	1	1	0	600	600	0
8/4/2024 22:27	46803	HEPB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/4/2024 22:27	55002	NEWP_T1	3	4	1	0.33	0.63	0.3	0	0	0	0	0	0	0	0
8/4/2024 22:27	40201	BEGA_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/4/2024 22:27	46504	LOHA_T1	2	2	0	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
8/4/2024 22:27	42901	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/4/2024 22:27	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/4/2024 22:27	67602	WARW_T2	0	0	0	0	0	0	0.85	0.81	2	2	0	1500	1500	0
8/4/2024 22:27	46506	LOHA_T1	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/4/2024 22:27	46801	HEPB_T2	3	5	2	0.7	0.62	-0.08	0.08	0.06	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/4/2024 22:27	42902	MIDD_T2	0	0	0	0	0	0	-1	-1.03	1	1	0	600	600	0
8/4/2024 22:27	44203	POIN_T2	0	0	0	0	0	0	-0.98	-0.96	2	2	0	2100	2100	0
8/4/2024 22:27	52403	GRPA_T2	0	1	1	0	0	0	-0.67	-0.61	0	0	0	0	0	0
8/4/2024 22:27	42802	SELI_T1	0	1	1	0	0.2	0.2	-2	-2.11	0	0	0	0	0	0
8/4/2024 22:27	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:27	52204	DEVO_T2	3	4	1	0.93	0.43	-0.5	0	0	0	0	0	0	0	0
8/4/2024 22:27	56501	ROCK_T2	74	197	123	0.21	0.31	0.1	-5.55	-5.7	0	0	0	0	0	0
8/4/2024 22:27	49803	UNIV_T1	1	1	0	6.3	5.8	-0.5	-1.82	-1.85	0	0	0	0	0	0
8/4/2024 22:27	20401	ASHF_T2	2	2	0	0.75	0.2	-0.55	0	0	0	0	0	0	0	0
8/4/2024 22:27	20402	ASHF_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/4/2024 22:27	46501	LOHA_T1	1	0	-1	2	0	-2	0.42	0.4	1	1	0	1200	1200	0
8/4/2024 22:27	55101	WERT_T1	0	0	0	0	0	0	-1.72	-1.72	3	3	0	2400	2400	0
8/4/2024 22:27	58401	MORO_T1	0	1	1	0	0	0	-0.39	-0.42	1	1	0	600	600	0
8/4/2024 22:28	63302	GREE_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
8/4/2024 22:28	46206	DANV_T2	4	2	-2	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
8/4/2024 22:28	67801	WLAN_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:28	42001	MNVL_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
8/4/2024 22:28	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:28	53903	HALI_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/4/2024 22:28	47101	MARL_T1	17	41	24	1.1	1.09	-0.01	-0.54	-0.3	0	0	0	0	0	0
8/4/2024 22:28	55101	WERT_T1	0	0	0	0	0	0	-1.72	-1.72	3	3	0	2400	2400	0
8/4/2024 22:28	46203	DANV_T2	0	6	6	0	0.13	0.13	-2.41	-2.46	0	0	0	0	0	0
8/4/2024 22:28	61701	ELIZ_T1	1	1	0	3.1	3.6	0.5	0	0	0	0	0	0	0	0
8/4/2024 22:28	42701	AUGU_T1	12	8	-4	0.57	0.6	0.03	0	0	2	2	0	1800	1800	0
8/4/2024 22:28	63301	GREE_T1	3	7	4	0.17	0.27	0.1	0	0	0	0	0	0	0	0
8/4/2024 22:28	63304	GREE_T1	0	0	0	0	0	0	-1.07	-1.12	0	0	0	0	0	0
8/4/2024 22:28	67605	WARW_T1	0	4	4	0	1.17	1.17	-0.47	-1.09	0	0	0	0	0	0
8/4/2024 22:28	58401	MORO_T1	0	1	1	0	0	0	-0.39	-0.42	1	1	0	600	600	0
8/4/2024 22:28	53902	HALI_T2	1	1	0	4.8	5.6	0.8	-0.69	-0.7	0	0	0	0	0	0
8/4/2024 22:28	64101	REFR_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
8/4/2024 22:28	63305	GREE_T1	20	30	10	0.52	0.54	0.02	0	0	0	0	0	0	0	0
8/4/2024 22:28	42301	MOWR_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
8/4/2024 22:28	47001	HUGH_T2	3	3	0	5.9	6.93	1.03	-1.24	-1.31	1	1	0	900	900	0
8/4/2024 22:28	67805	WLAN_T1	0	0	0	0	0	0	-1.09	-1.11	0	0	0	0	0	0
8/4/2024 22:28	44801	EDAN_T2	1	1	0	1	0.1	-0.9	-1.31	-1.32	0	0	0	0	0	0
8/4/2024 22:28	42002	MNVL_T2	1	1	0	3.1	2.8	-0.3	0	0	0	0	0	0	0	0
8/4/2024 22:28	44802	EDAN_T2	0	0	0	0	0	0	-1.61	-1.58	0	0	0	0	0	0
8/4/2024 22:28	56504	ROCK_T2	0	0	0	0	0	0	-0.68	-0.71	0	0	0	0	0	0
8/4/2024 22:28	40603	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:28	56501	ROCK_T2	74	197	123	0.21	0.31	0.1	0	0	0	0	0	0	0	0
8/4/2024 22:28	42601	TUSC_T1	0	0	0	0	0	0	-1.25	-1.31	2	2	0	1800	1800	0
8/4/2024 22:28	67804	WLAN_T1	10	10	0	0.47	0.38	-0.09	0	0	0	0	0	0	0	0
8/4/2024 22:28	63306	GREE_T1	3	40	37	0.1	0.18	0.08	0	0	0	0	0	0	0	0
8/4/2024 22:29	43103	SMIL_T2	0	1	1	0	0.1	0.1	-2.97	-3.03	0	0	0	0	0	0
8/4/2024 22:29	42802	SELI_T1	0	1	1	0	0.2	0.2	-1	-1.06	0	0	0	0	0	0
8/4/2024 22:29	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:29	42902	MIDD_T2	0	0	0	0	0	0	-1	-1.03	1	1	0	600	600	0
8/4/2024 22:29	42903	MIDD_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
8/4/2024 22:29	41901	REED_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/4/2024 22:29	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:29	64101	REFR_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
8/4/2024 22:29	41902	REED_T1	2	0	-2	0.2	0	-0.2	0.65	0.59	2	2	0	1800	1800	0
8/4/2024 22:29	42901	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/4/2024 22:29	59102	WALK_T2	0	1	1	0	0.1	0.1	-0.13	-0.14	1	1	0	600	600	0
8/4/2024 22:30	46206	DANV_T2	2	1	-1	0.5	0.4	-0.1	-0.03	-0.03	2	2	0	2100	2100	0
8/4/2024 22:30	45302	WBER_T2	0	0	0	0	0	0	1.37	1.32	0	0	0	0	0	0
8/4/2024 22:30	59101	WALK_T2	0	0	0	0	0	0	0.77	0.81	2	2	0	1200	1200	0
8/4/2024 22:30	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 22:30	53501	EVIL_T2	2	1	-1	0.2	0.5	0.3	-0.25	-0.22	1	1	0	600	600	0
8/4/2024 22:30	42201	SHEN_T2	0	0	0	0	0	0	0.17	0.15	1	1	0	600	600	0
8/4/2024 22:30	44801	EDAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/4/2024 22:30	47101	MARL_T1	28	40	12	1.11	1.24	0.13	-0.54	-0.3	0	0	0	0	0	0
8/4/2024 22:30	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2024 22:30	46203	DANV_T2	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
8/4/2024 22:30	44802	EDAN_T2	0	0	0	0	0	0	-1.61	-1.58	0	0	0	0	0	0
8/4/2024 22:30	42802	SELI_T1	0	1	1	0	0.2	0.2	-2	-2.11	0	0	0	0	0	0
8/4/2024 22:30	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/4/2024 22:31	45501	DERR_T2	0	1	1	0	0	0	-0.12	-0.12	2	2	0	1800	1800	0
8/4/2024 22:31	46506	LOHA_T1	2	14	12	0.15	0.14	-0.01	-3.54	-3.6	2	2	0	2400	2400	0
8/4/2024 22:31	46504	LOHA_T1	2	0	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/4/2024 22:31	41001	LAUR_T2	4	47	43	0.13	0.21	0.08	0	0	0	0	0	0	0	0
8/4/2024 22:31	42802	SELI_T1	0	1	1	0	0.2	0.2	-1	-1.06	0	0	0	0	0	0
8/4/2024 22:31	41002	LAUR_T2	27	48	21	0.2	0.25	0.05	-0.22	-0.23	0	0	0	0	0	0
8/4/2024 22:32	43104	SMIL_T2	0	0	0	0	0	0	-0.47	-0.48	1	1	0	300	300	0
8/4/2024 22:32	43103	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/4/2024 22:32	47402	PENS_T1	2	0	-2	1.75	0	-1.75	0	0	0	0	0	0	0	0
8/4/2024 22:32	44901	SCOT_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
8/4/2024 22:32	44301	BEAV_T2	0	0	0	0	0	0	-1.1	-1.13	1	1	0	600	600	0
8/4/2024 22:32	54001	SOLE_T1	1	1	0	0.5	0.7	0.2	0	0	1	1	0	600	600	0
8/4/2024 22:32	47401	PENS_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
8/4/2024 22:32	44302	BEAV_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
8/4/2024 22:32	44902	SCOT_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/4/2024 22:32	40201	BEGA_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/4/2024 22:33	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 22:33	45501	DERR_T2	0	1	1	0	0	0	-0.12	-0.12	2	2	0	1800	1800	0
8/4/2024 22:33	59101	WALK_T2	0	0	0	0	0	0	0.77	0.81	2	2	0	1200	1200	0
8/4/2024 22:33	42802	SELI_T1	0	1	1	0	0.2	0.2	-1	-1.06	0	0	0	0	0	0
8/4/2024 22:34	52403	GRPA_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/4/2024 22:34	52401	GRPA_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/4/2024 22:34	52404	GRPA_T2	0	0	0	0	0	0	-0.63	-0.68	0	0	0	0	0	0
8/4/2024 22:34	52402	GRPA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/4/2024 22:36	44302	BEAV_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
8/4/2024 22:49	42902	MIDD_T2	0	0	0	0	0	0	-1.03	-0.99	1	1	0	600	600	0
8/4/2024 22:51	42902	MIDD_T2	0	0	0	0	0	0	-1.03	-0.99	1	1	0	600	600	0
8/4/2024 22:58	52403	GRPA_T2	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/4/2024 22:58	52402	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/4/2024 22:58	52404	GRPA_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
8/4/2024 22:58	52401	GRPA_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/4/2024 23:11	42201	SHEN_T2	0	0	0	0	0	0	0.11	0.11	1	1	0	600	600	0
8/4/2024 23:25	67605	WARW_T1	3	3	0	0.9	0.67	-0.23	-1.04	-0.92	0	0	0	0	0	0
8/4/2024 23:26	51003	NHAR_T1	0	0	0	0	0	0	-1.61	-1.67	1	1	0	1200	1200	0
8/4/2024 23:26	51002	NHAR_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
8/4/2024 23:26	51004	NHAR_T1	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
8/4/2024 23:39	54203	PENN_T1	5	5	0	0.76	0.74	-0.02	0	0	0	0	0	0	0	0
8/4/2024 23:39	54201	PENN_T1	4	4	0	1.35	1.1	-0.25	-1.84	-1.85	0	0	0	0	0	0
8/5/2024 5:03	65901	SAKR_T2	1	1	0	8.3	7.8	-0.5	-1.06	-1.05	1	1	0	900	900	0
8/5/2024 6:53	29402	BELT_T1	20	30	10	0.69	0.54	-0.15	0	0	0	0	0	0	0	0
8/5/2024 6:53	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/5/2024 7:34	44201	POIN_T1	0	0	0	0	0	0	-1.09	-1.06	2	2	0	2100	2100	0
8/5/2024 7:36	65603	QVIL_T2	0	0	0	0	0	0	0.92	0.86	0	0	0	0	0	0
8/5/2024 7:37	44902	SCOT_T2	0	0	0	0	0	0	-0.7	-0.67	0	0	0	0	0	0
8/5/2024 7:40	22002	BOHE_T1	0	0	0	0	0	0	0.37	0.42	0	0	0	0	0	0
8/5/2024 7:42	53601	DALM_T2	1	1	0	0.6	0.7	0.1	-0.3	-0.34	1	1	0	900	900	0
8/5/2024 7:43	62604	ENGL_T1	0	0	0	0	0	0	-1.03	-0.93	1	1	0	600	600	0
8/5/2024 7:47	64904	MILL_T1	0	0	0	0	0	0	-0.09	-0.03	0	0	0	0	0	0
8/5/2024 7:57	45502	DERR_T2	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/5/2024 7:57	45501	DERR_T2	0	1	1	0	0	0	0.83	0.84	2	2	0	1800	1800	0
8/5/2024 7:58	61801	EELI_T2	0	1	1	0	0	0	-0.28	-0.22	1	1	0	600	600	0
8/5/2024 7:59	45502	DERR_T2	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/5/2024 7:59	45501	DERR_T2	0	1	1	0	0	0	0.83	0.84	2	2	0	1800	1800	0
8/5/2024 8:00	15603	NSTR_T2	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
8/5/2024 8:07	24801	VALM_T1	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
8/5/2024 8:07	67803	WLAN_T1	0	1	1	0	1.8	1.8	-1.26	-1.2	0	0	0	0	0	0
8/5/2024 8:09	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 8:10	59101	WALK_T2	1	1	0	2.3	3.1	0.8	1.51	1.6	1	1	0	600	600	0
8/5/2024 8:11	57702	PAXT_T1	0	0	0	0	0	0	0.25	0.28	0	0	0	0	0	0
8/5/2024 8:13	55101	WERT_T1	0	0	0	0	0	0	-2.03	-1.82	4	4	0	3300	3300	0
8/5/2024 8:14	53902	HALI_T2	1	1	0	4.6	4.8	0.2	0	0	0	0	0	0	0	0
8/5/2024 8:14	53903	HALI_T2	2	2	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
8/5/2024 8:14	53901	HALI_T2	0	1	1	0	0.5	0.5	-2.47	-2.41	0	0	0	0	0	0
8/5/2024 8:15	53903	HALI_T2	2	2	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
8/5/2024 8:15	53901	HALI_T2	1	1	0	0.5	0.3	-0.2	-1.23	-1.2	0	0	0	0	0	0
8/5/2024 8:15	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 8:15	53902	HALI_T2	1	1	0	4.7	5.1	0.4	0	0	0	0	0	0	0	0
8/5/2024 8:16	51204	MTON_T2	0	0	0	0	0	0	-0.25	-0.25	1	1	0	600	600	0
8/5/2024 8:16	53901	HALI_T2	1	1	0	0.5	0.3	-0.2	-1.23	-1.2	0	0	0	0	0	0
8/5/2024 8:16	53902	HALI_T2	1	1	0	4.7	5.1	0.4	0	0	0	0	0	0	0	0
8/5/2024 8:16	53903	HALI_T2	2	2	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
8/5/2024 8:18	51204	MTON_T2	0	0	0	0	0	0	-0.25	-0.25	1	1	0	600	600	0
8/5/2024 8:21	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 8:22	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 8:23	43402	BENT_T1	0	0	0	0	0	0	-0.61	-0.61	1	1	0	900	900	0
8/5/2024 8:25	59101	WALK_T2	1	1	0	3.1	4.7	1.6	1.6	1.67	1	1	0	600	600	0
8/5/2024 8:26	43402	BENT_T1	0	0	0	0	0	0	-0.61	-0.61	1	1	0	900	900	0
8/5/2024 8:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 8:31	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 8:31	23401	HONE_T2	1	1	0	0.2	0.9	0.7	-0.32	-0.31	0	0	0	0	0	0
8/5/2024 8:35	46302	ROHR_T1	4	4	0	1.58	1.63	0.05	0.56	0.57	0	0	0	0	0	0
8/5/2024 8:35	46301	ROHR_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/5/2024 8:35	43202	MVIL_T2	3	5	2	0.2	0.24	0.04	-0.44	-0.42	0	0	0	0	0	0
8/5/2024 8:38	45602	WOOL_T1	0	0	0	0	0	0	0.93	0.93	0	0	0	0	0	0
8/5/2024 8:39	45602	WOOL_T1	0	0	0	0	0	0	0.93	0.93	0	0	0	0	0	0
8/5/2024 8:43	45502	DERR_T2	2	2	0	0.55	0.85	0.3	0.41	0.39	0	0	0	0	0	0
8/5/2024 8:50	44202	POIN_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
8/5/2024 8:50	44203	POIN_T2	5	6	1	0.96	0.86	-0.1	0.39	0.51	2	2	0	2100	2100	0
8/5/2024 8:53	41902	REED_T1	0	2	2	0	0.2	0.2	3.74	3.85	0	0	0	0	0	0
8/5/2024 8:53	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 8:54	20403	ASHF_T2	0	0	0	0	0	0	1.56	1.6	0	0	0	0	0	0
8/5/2024 8:54	20401	ASHF_T2	4	5	1	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
8/5/2024 8:56	20401	ASHF_T2	4	5	1	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
8/5/2024 8:56	20403	ASHF_T2	0	0	0	0	0	0	1.56	1.6	0	0	0	0	0	0
8/5/2024 8:59	45802	HEGI_T2	0	16	16	0	0.41	0.41	0.6	0.56	2	2	0	1200	1200	0
8/5/2024 9:00	63202	MGTN_T2	0	0	0	0	0	0	-0.75	-0.9	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/5/2024 9:00	63201	MGTN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/5/2024 9:00	20601	GRWO_T2	3	7	4	0.27	0.35	0.08	0	0	0	0	0	0	0	0
8/5/2024 9:00	20603	GRWO_T2	1	0	-1	0.1	0	-0.1	-0.4	-0.37	1	1	0	900	900	0
8/5/2024 9:01	45802	HEGI_T2	0	16	16	0	0.41	0.41	0.6	0.56	2	2	0	1200	1200	0
8/5/2024 9:01	40101	HUNT_T2	0	12	12	0	0.8	0.8	-0.21	-0.12	0	0	0	0	0	0
8/5/2024 9:03	64302	LINC_T2	0	2	2	0	0.3	0.3	1.53	1.49	0	0	0	0	0	0
8/5/2024 9:04	56501	ROCK_T2	0	4	4	0	1.13	1.13	-0.95	-0.86	0	0	0	0	0	0
8/5/2024 9:05	56501	ROCK_T2	0	4	4	0	1.13	1.13	-0.95	-0.86	0	0	0	0	0	0
8/5/2024 9:06	56501	ROCK_T2	0	4	4	0	1.13	1.13	-0.95	-0.86	0	0	0	0	0	0
8/5/2024 9:15	46503	LOHA_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
8/5/2024 9:15	46506	LOHA_T1	180	68	-112	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
8/5/2024 9:15	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 9:16	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 9:16	46503	LOHA_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
8/5/2024 9:16	46506	LOHA_T1	180	68	-112	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
8/5/2024 9:17	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 9:17	46506	LOHA_T1	180	68	-112	0.2	0.18	-0.02	-1.89	-1.9	2	2	0	2100	2100	0
8/5/2024 9:18	46506	LOHA_T1	180	68	-112	0.2	0.18	-0.02	-1.89	-1.9	2	2	0	2100	2100	0
8/5/2024 9:18	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 9:21	55001	NEWP_T1	0	0	0	0	0	0	0.04	0.12	0	0	0	0	0	0
8/5/2024 9:21	55002	NEWP_T1	4	3	-1	0.5	1.17	0.67	0	0	0	0	0	0	0	0
8/5/2024 9:22	55002	NEWP_T1	4	3	-1	0.5	1.17	0.67	0	0	0	0	0	0	0	0
8/5/2024 9:22	55001	NEWP_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
8/5/2024 9:23	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
8/5/2024 9:23	15702	TANN_T2	0	0	0	0	0	0	-0.08	-0.05	0	0	0	0	0	0
8/5/2024 9:23	61102	BERK_T5	0	0	0	0	0	0	1.18	1.15	1	1	0	300	300	0
8/5/2024 9:24	15702	TANN_T2	0	0	0	0	0	0	-0.08	-0.05	0	0	0	0	0	0
8/5/2024 9:24	42201	SHEN_T2	0	0	0	0	0	0	0.14	0.14	1	1	0	600	600	0
8/5/2024 9:24	67605	WARW_T1	1	0	-1	0.1	0	-0.1	-0.96	-0.78	0	0	0	0	0	0
8/5/2024 9:24	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
8/5/2024 9:24	61102	BERK_T5	0	0	0	0	0	0	1.18	1.15	1	1	0	300	300	0
8/5/2024 9:25	41902	REED_T1	2	3	1	0.25	0	-0.25	1.29	0.41	0	1	1	0	900	900
8/5/2024 9:25	43108	SMIL_T2	1	1	0	0.2	0.1	-0.1	-0.58	-0.77	1	1	0	1200	1200	0
8/5/2024 9:25	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 9:25	61102	BERK_T5	0	0	0	0	0	0	2.37	2.31	2	2	0	600	600	0
8/5/2024 9:26	61102	BERK_T5	0	0	0	0	0	0	1.18	1.15	1	1	0	300	300	0
8/5/2024 9:27	67605	WARW_T1	1	0	-1	0.1	0	-0.1	-0.96	-0.78	0	0	0	0	0	0
8/5/2024 9:29	64302	LINC_T2	1	2	1	0.3	0.35	0.05	1.54	1.54	0	0	0	0	0	0
8/5/2024 9:30	52404	GRPA_T2	0	1	1	0	0	0	0.79	0.75	0	0	0	0	0	0
8/5/2024 9:30	46803	HEPB_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
8/5/2024 9:30	52403	GRPA_T2	3	24	21	0.7	0.54	-0.16	0	0	0	0	0	0	0	0
8/5/2024 9:30	52402	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/5/2024 9:32	53901	HALI_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/5/2024 9:32	53903	HALI_T2	2	4	2	1.2	3.23	2.03	0.06	0.07	0	0	0	0	0	0
8/5/2024 9:32	53902	HALI_T2	2	2	0	2.55	2.75	0.2	0	0	0	0	0	0	0	0
8/5/2024 9:33	47101	MARL_T1	12	12	0	0.38	0.46	0.08	-0.47	-0.6	0	0	0	0	0	0
8/5/2024 9:33	64305	LINC_T1	1	2	1	2.3	1.7	-0.6	0.45	0.45	0	0	0	0	0	0
8/5/2024 9:36	41902	REED_T1	3	0	-3	0.47	0	-0.47	1.29	0.41	0	1	1	0	900	900
8/5/2024 9:38	20402	ASHF_T2	6	7	1	1.53	2.33	0.8	0	0	0	0	0	0	0	0
8/5/2024 9:38	20403	ASHF_T2	0	0	0	0	0	0	1.61	1.63	0	0	0	0	0	0
8/5/2024 9:38	20401	ASHF_T2	4	4	0	1.1	0.58	-0.52	0	0	0	0	0	0	0	0
8/5/2024 9:38	29402	BELT_T1	2	5	3	4.8	2.1	-2.7	0	0	0	0	0	0	0	0
8/5/2024 9:38	29401	BELT_T1	11	1	-10	0.12	0.3	0.18	0	0	1	1	0	900	900	0
8/5/2024 9:38	59101	WALK_T2	1	1	0	3.2	0	-3.2	1.9	1.96	1	1	0	600	600	0
8/5/2024 9:39	20402	ASHF_T2	6	7	1	1.53	2.33	0.8	0	0	0	0	0	0	0	0
8/5/2024 9:39	20401	ASHF_T2	4	4	0	1.1	0.58	-0.52	0	0	0	0	0	0	0	0
8/5/2024 9:39	20403	ASHF_T2	0	0	0	0	0	0	1.61	1.63	0	0	0	0	0	0
8/5/2024 9:42	44301	BEAV_T2	1	3	2	1.6	1.25	-0.35	0	0	0	0	0	0	0	0
8/5/2024 9:42	53901	HALI_T2	1	1	0	0.5	0.2	-0.3	-1.07	-1.01	0	0	0	0	0	0
8/5/2024 9:42	53902	HALI_T2	2	2	0	2.55	2.75	0.2	0	0	0	0	0	0	0	0
8/5/2024 9:42	53903	HALI_T2	2	4	2	1.2	3.23	2.03	0	0	0	0	0	0	0	0
8/5/2024 9:43	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
8/5/2024 9:44	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 9:44	64204	KINZ_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
8/5/2024 9:44	64201	KINZ_T1	0	1	1	0	0.2	0.2	-0.13	-0.15	4	4	0	2100	2100	0
8/5/2024 9:44	64203	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/5/2024 9:45	63402	HONY_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
8/5/2024 9:45	59003	MIFF_T1	1	1	0	2.8	0	-2.8	-1.08	0.09	0	0	0	0	0	0
8/5/2024 9:45	63403	HONY_T2	0	0	0	0	0	0	-0.25	-0.3	1	1	0	600	600	0
8/5/2024 9:48	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/5/2024 9:49	64203	KINZ_T1	1	2	1	0.3	1.1	0.8	0	0	0	0	0	0	0	0
8/5/2024 9:49	64201	KINZ_T1	1	2	1	0.6	0	-0.6	-0.13	-0.15	4	4	0	2100	2100	0
8/5/2024 9:49	64202	KINZ_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 9:49	64204	KINZ_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/5/2024 9:50	42601	TUSC_T1	0	0	0	0	0	0	-0.33	-0.39	2	2	0	1800	1800	0
8/5/2024 9:52	60502	NMAN_T2	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
8/5/2024 9:52	66901	SHIL_T2	0	0	0	0	0	0	-0.77	-0.7	1	1	0	1200	1200	0
8/5/2024 9:54	42601	TUSC_T1	0	0	0	0	0	0	-0.39	-0.22	2	2	0	1800	1800	0
8/5/2024 10:00	64204	KINZ_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
8/5/2024 10:00	51204	MTON_T2	0	0	0	0	0	0	-0.24	-0.2	2	2	0	1200	1200	0
8/5/2024 10:00	22901	HARW_T1	0	0	0	0	0	0	0.08	0.12	1	1	0	1200	1200	0
8/5/2024 10:00	64201	KINZ_T1	1	1	0	0.2	0	-0.2	-0.15	0.43	4	4	0	2100	2100	0
8/5/2024 10:00	67103	SPRI_T1	0	0	0	0	0	0	-0.58	-0.51	0	0	0	0	0	0
8/5/2024 10:00	59101	WALK_T2	0	2	2	0	0.1	0.1	1.96	1.49	1	2	1	600	1200	600
8/5/2024 10:00	43205	CRES_T1	3	4	1	1.9	1.4	-0.5	0.79	0.84	0	0	0	0	0	0
8/5/2024 10:00	43202	MVIL_T2	1	1	0	0.5	0.2	-0.3	-0.38	-0.37	0	0	0	0	0	0
8/5/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
8/5/2024 10:00	40504	CRES_T1	4	8	4	0.18	0.54	0.36	0	0	0	0	0	0	0	0
8/5/2024 10:00	16402	MOPO_T1	4	5	1	0.48	0	-0.48	0.62	0.64	0	0	0	0	0	0
8/5/2024 10:00	57702	PAXT_T1	0	0	0	0	0	0	-0.42	-0.39	0	0	0	0	0	0
8/5/2024 10:00	64202	KINZ_T1	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
8/5/2024 10:00	64203	KINZ_T1	1	2	1	1.1	1.2	0.1	0	0	0	0	0	0	0	0
8/5/2024 10:00	22905	HARW_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 10:00	56501	ROCK_T2	2	154	152	0.1	0.32	0.22	-2.31	-5.85	0	0	0	0	0	0
8/5/2024 10:00	42601	TUSC_T1	0	0	0	0	0	0	-0.78	-0.44	4	4	0	3600	3600	0
8/5/2024 10:05	57702	PAXT_T1	0	0	0	0	0	0	-0.42	-0.39	0	0	0	0	0	0
8/5/2024 10:05	65802	RTWN_T2	0	0	0	0	0	0	0.31	0.44	0	0	0	0	0	0
8/5/2024 10:06	67503	WEWI_T2	1	1	0	5.6	5.7	0.1	0.48	0.5	0	0	0	0	0	0
8/5/2024 10:06	67502	WEWI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/5/2024 10:06	42302	MOWR_T2	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
8/5/2024 10:07	67803	WLAN_T1	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
8/5/2024 10:07	67804	WLAN_T1	0	8	8	0	0.42	0.42	0	0	0	0	0	0	0	0
8/5/2024 10:08	50701	SMEC_T1	1	1	0	0.1	0.4	0.3	0.26	0.33	0	0	0	0	0	0
8/5/2024 10:08	56501	ROCK_T2	2	154	152	0.1	0.32	0.22	-3.9	-3.74	0	0	0	0	0	0
8/5/2024 10:08	66901	SHIL_T2	0	0	0	0	0	0	-0.7	-0.63	1	1	0	1200	1200	0
8/5/2024 10:08	55001	NEWP_T1	1	1	0	0.1	0	-0.1	-0.41	-0.36	1	1	0	600	600	0
8/5/2024 10:08	43402	BENT_T1	2	2	0	0.3	0.6	0.3	-0.45	-0.47	1	1	0	900	900	0
8/5/2024 10:08	29402	BELT_T1	5	4	-1	2.1	2.6	0.5	0	0	0	0	0	0	0	0
8/5/2024 10:08	42801	SEU_T1	0	0	0	0	0	0	-0.26	-0.12	1	1	0	1200	1200	0
8/5/2024 10:08	55002	NEWP_T1	4	3	-1	0.73	0.97	0.24	0	0	0	0	0	0	0	0
8/5/2024 10:08	29401	BELT_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/5/2024 10:08	60502	NMAN_T2	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
8/5/2024 10:09	50701	SMEC_T1	1	1	0	0.1	0.4	0.3	0.26	0.33	0	0	0	0	0	0
8/5/2024 10:09	59101	WALK_T2	0	2	2	0	0.1	0.1	1.49	1.45	2	2	0	1200	1200	0
8/5/2024 10:09	29402	BELT_T1	5	4	-1	2.1	2.6	0.5	0	0	0	0	0	0	0	0
8/5/2024 10:09	29401	BELT_T1	1	1	0	0.3	0.3	0	0	0	1	1	0	900	900	0
8/5/2024 10:09	41602	CLEV_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
8/5/2024 10:09	56501	ROCK_T2	2	154	152	0.1	0.32	0.22	-1.95	-1.87	0	0	0	0	0	0
8/5/2024 10:09	67605	WARW_T1	0	1	1	0	0.3	0.3	-0.74	-0.74	0	0	0	0	0	0
8/5/2024 10:10	20401	ASHF_T2	4	4	0	0.58	0.93	0.35	0	0	0	0	0	0	0	0
8/5/2024 10:10	20402	ASHF_T2	7	6	-1	3.13	0	-3.13	0	0	0	0	0	0	0	0
8/5/2024 10:10	59101	WALK_T2	0	2	2	0	0.1	0.1	1.49	1.45	2	2	0	1200	1200	0
8/5/2024 10:10	20403	ASHF_T2	0	0	0	0	0	0	3.29	1.85	0	0	0	0	0	0
8/5/2024 10:11	20403	ASHF_T2	0	0	0	0	0	0	1.65	0.92	0	0	0	0	0	0
8/5/2024 10:11	43402	BENT_T1	2	2	0	0.3	0.6	0.3	-0.45	-0.47	1	1	0	900	900	0
8/5/2024 10:11	20402	ASHF_T2	7	6	-1	3.13	0	-3.13	0	0	0	0	0	0	0	0
8/5/2024 10:11	20401	ASHF_T2	4	4	0	0.58	0.93	0.35	0	0	0	0	0	0	0	0
8/5/2024 10:11	46204	DANV_T2	2	3	1	1.05	0	-1.05	0	0	0	0	0	0	0	0
8/5/2024 10:11	53501	EVIL_T2	0	2	2	0	0.45	0.45	-1.11	-1.17	3	3	0	2100	2100	0
8/5/2024 10:11	46206	DANV_T2	36	43	7	0.48	0.85	0.37	1.98	1.17	1	2	1	1200	2100	900
8/5/2024 10:11	53502	EVIL_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/5/2024 10:11	46203	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 10:12	45501	DERR_T2	0	5	5	0	0.5	0.5	0	0	0	0	0	0	0	0
8/5/2024 10:12	45502	DERR_T2	4	5	1	0.65	0	-0.65	0.18	0.16	1	1	0	300	300	0
8/5/2024 10:13	53502	EVIL_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/5/2024 10:13	53501	EVIL_T2	0	2	2	0	0.45	0.45	-2.21	-2.34	6	6	0	4200	4200	0
8/5/2024 10:13	63501	HEID_TBK1-2	49	48	-1	1.69	1.62	-0.07	0.67	0.85	1	1	0	900	900	0
8/5/2024 10:14	53601	DALM_T2	0	1	1	0	0.8	0.8	-0.16	-0.7	1	2	1	900	1500	600
8/5/2024 10:14	53502	EVIL_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/5/2024 10:14	46206	DANV_T2	36	43	7	0.48	0.85	0.37	0	0	0	0	0	0	0	0
8/5/2024 10:14	46204	DANV_T2	2	3	1	1.05	0	-1.05	0	0	0	0	0	0	0	0
8/5/2024 10:14	45502	DERR_T2	4	5	1	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/5/2024 10:14	53501	EVIL_T2	0	2	2	0	0.45	0.45	-1.11	-1.17	3	3	0	2100	2100	0
8/5/2024 10:14	46203	DANV_T2	1	0	-1	0.1	0	-0.1	-0.15	-1.4	0	0	0	0	0	0
8/5/2024 10:14	45802	HEGI_T2	0	54	54	0	0.4	0.4	0.75	0.9	2	2	0	1200	1200	0
8/5/2024 10:14	45501	DERR_T2	0	5	5	0	0.5	0.5	1.31	1.32	2	2	0	1800	1800	0
8/5/2024 10:15	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 10:15	51303	WIND_T1	0	10	10	0	0.25	0.25	0	0	0	0	0	0	0	0
8/5/2024 10:15	64201	KINZ_T1	1	8	7	0.2	0	-0.2	0.87	0.84	8	8	0	4200	4200	0
8/5/2024 10:15	64203	KINZ_T1	2	2	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
8/5/2024 10:15	45502	DERR_T2	5	1	-4	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/5/2024 10:15	52004	LING_T2	3	2	-1	3.63	5.15	1.52	0.61	0.6	0	0	0	0	0	0
8/5/2024 10:15	45501	DERR_T2	4	11	7	0.25	0.35	0.1	1.31	1.32	2	2	0	1800	1800	0
8/5/2024 10:15	53502	EVIL_T2	1	2	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/5/2024 10:15	51305	WIND_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
8/5/2024 10:15	53501	EVIL_T2	2	2	0	0.35	0.45	0.1	-1.11	-1.17	3	3	0	2100	2100	0
8/5/2024 10:15	45801	HEGI_T1	0	1	1	0	0	0	0.57	0.58	1	1	0	900	900	0
8/5/2024 10:15	64305	LINC_T1	1	2	1	1.4	0.55	-0.85	0.62	0.67	0	0	0	0	0	0
8/5/2024 10:15	64204	KINZ_T1	1	2	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
8/5/2024 10:17	64302	LINC_T2	4	6	2	0.85	0.84	-0.01	1.75	1.72	0	0	0	0	0	0
8/5/2024 10:17	52404	GRPA_T2	0	1	1	0	0	0	0.94	0.8	0	0	0	0	0	0
8/5/2024 10:17	63402	HONY_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/5/2024 10:17	45801	HEGI_T1	0	1	1	0	0	0	0.57	0.58	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/5/2024 10:17	63403	HONY_T2	0	0	0	0	0	0	-0.75	-0.69	1	1	0	600	600	0
8/5/2024 10:17	40101	HUNT_T2	66	175	109	0.48	0.41	-0.07	-0.28	-0.24	0	0	0	0	0	0
8/5/2024 10:17	52402	GRPA_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 10:17	23401	HONE_T2	1	5	4	1.3	1.25	-0.05	-0.06	-0.08	0	0	0	0	0	0
8/5/2024 10:17	52403	GRPA_T2	45	37	-8	0.63	0.64	0.01	0	0	0	0	0	0	0	0
8/5/2024 10:18	45802	HEGI_T2	3	85	82	0.4	0.42	0.02	0.75	0.9	2	2	0	1200	1200	0
8/5/2024 10:19	63201	MGTN_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
8/5/2024 10:19	40101	HUNT_T2	66	175	109	0.48	0.41	-0.07	-0.14	-0.12	0	0	0	0	0	0
8/5/2024 10:19	63202	MGTN_T2	0	0	0	0	0	0	-0.66	-0.66	1	1	0	900	900	0
8/5/2024 10:20	64101	REFR_T1	0	3	3	0	0.33	0.33	1.98	1.73	0	0	0	0	0	0
8/5/2024 10:20	46302	ROHR_T1	4	4	0	1.38	1.13	-0.25	0.33	0.32	0	0	0	0	0	0
8/5/2024 10:21	42201	SHEN_T2	0	0	0	0	0	0	0.2	0.26	1	1	0	600	600	0
8/5/2024 10:21	46301	ROHR_T1	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
8/5/2024 10:21	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 10:21	46302	ROHR_T1	4	4	0	1.38	1.13	-0.25	0	0	0	0	0	0	0	0
8/5/2024 10:21	64101	REFR_T1	0	3	3	0	0.33	0.33	0.86	0.98	0	0	0	0	0	0
8/5/2024 10:22	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 10:22	64101	REFR_T1	0	3	3	0	0.33	0.33	0.43	0.49	0	0	0	0	0	0
8/5/2024 10:23	64101	REFR_T1	0	3	3	0	0.33	0.33	0.86	0.98	0	0	0	0	0	0
8/5/2024 10:24	44301	BEAV_T2	1	2	1	1.7	0.9	-0.8	0	0	0	0	0	0	0	0
8/5/2024 10:24	42201	SHEN_T2	0	0	0	0	0	0	0.26	0.21	1	1	0	600	600	0
8/5/2024 10:24	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 10:25	46302	ROHR_T1	4	4	0	1.38	1.13	-0.25	0.32	0.36	0	0	0	0	0	0
8/5/2024 10:25	67605	WARW_T1	1	0	-1	0.3	0	-0.3	-0.74	-0.7	0	0	0	0	0	0
8/5/2024 10:26	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/5/2024 10:26	20403	ASHF_T2	0	0	0	0	0	0	0.92	0.95	0	0	0	0	0	0
8/5/2024 10:26	20401	ASHF_T2	4	5	1	0.95	1.1	0.15	0	0	0	0	0	0	0	0
8/5/2024 10:26	20402	ASHF_T2	6	6	0	0.92	0	-0.92	0	0	0	0	0	0	0	0
8/5/2024 10:27	67605	WARW_T1	1	0	-1	0.3	0	-0.3	-1.48	-1.4	0	0	0	0	0	0
8/5/2024 10:27	64101	REFR_T1	0	3	3	0	0.33	0.33	0.43	0.49	0	0	0	0	0	0
8/5/2024 10:30	21206	ECAR_T2	1	7	6	6.8	3.45	-3.35	0	0	0	0	0	0	0	0
8/5/2024 10:30	21204	ECAR_T2	1	3	2	0	0	0	-0.38	-0.37	0	0	0	0	0	0
8/5/2024 10:30	29401	BELT_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/5/2024 10:30	20601	GRWO_T2	72	134	62	0.51	0.63	0.12	0.41	0.46	1	1	0	1200	1200	0
8/5/2024 10:30	29402	BELT_T1	3	2	-1	3.2	4.5	1.3	0	0	0	0	0	0	0	0
8/5/2024 10:31	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 10:31	20601	GRWO_T2	72	134	62	0.51	0.63	0.12	0.41	0.46	1	1	0	1200	1200	0
8/5/2024 10:32	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 10:32	52403	GRPA_T2	33	42	9	0.66	0.61	-0.05	0.48	0.47	0	0	0	0	0	0
8/5/2024 10:32	25503	MADI_T1	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
8/5/2024 10:32	52402	GRPA_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/5/2024 10:32	52404	GRPA_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 10:32	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 10:32	25501	MADI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/5/2024 10:33	54201	PENN_T1	3	3	0	0.93	0.7	-0.23	-0.4	-0.4	0	0	0	0	0	0
8/5/2024 10:33	54203	PENN_T1	5	4	-1	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
8/5/2024 10:34	13503	MCMI_T2	1	27	26	1	0.34	-0.66	0.45	-1.33	0	0	0	0	0	0
8/5/2024 10:35	55002	NEWP_T1	3	3	0	0.83	0.83	0	0	0	0	0	0	0	0	0
8/5/2024 10:35	56501	ROCK_T2	26	22	-4	0.28	0.31	0.03	-3.74	-3.64	0	0	0	0	0	0
8/5/2024 10:35	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 10:35	55001	NEWP_T1	1	0	-1	1	0	-1	-0.36	-0.36	1	1	0	600	600	0
8/5/2024 10:35	13503	MCMI_T2	1	27	26	1	0.34	-0.66	0.23	-0.66	0	0	0	0	0	0
8/5/2024 10:36	65001	NEFF_T2	0	0	0	0	0	0	0.53	0.52	1	1	0	1200	1200	0
8/5/2024 10:36	56501	ROCK_T2	26	22	-4	0.28	0.31	0.03	-5.6	-5.47	0	0	0	0	0	0
8/5/2024 10:38	41903	REED_T1	1	4	3	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/5/2024 10:38	41902	REED_T1	7	21	14	0.39	0.48	0.09	1.19	1.29	2	2	0	1800	1800	0
8/5/2024 10:38	56501	ROCK_T2	26	22	-4	0.28	0.31	0.03	-3.64	-3.56	0	0	0	0	0	0
8/5/2024 10:39	41902	REED_T1	7	21	14	0.39	0.48	0.09	0.59	0.65	1	1	0	900	900	0
8/5/2024 10:39	55001	NEWP_T1	1	0	-1	1	0	-1	-0.36	-0.31	1	1	0	600	600	0
8/5/2024 10:39	20402	ASHF_T2	0	8	8	0	0.57	0.57	0	0	0	0	0	0	0	0
8/5/2024 10:39	20401	ASHF_T2	4	6	2	1.1	1.66	0.56	0	0	0	0	0	0	0	0
8/5/2024 10:39	55002	NEWP_T1	3	3	0	0.83	0.83	0	0	0	0	0	0	0	0	0
8/5/2024 10:39	56504	ROCK_T2	0	0	0	0	0	0	0.35	0.3	0	0	0	0	0	0
8/5/2024 10:39	56501	ROCK_T2	26	22	-4	0.28	0.31	0.03	0	0	0	0	0	0	0	0
8/5/2024 10:39	41903	REED_T1	1	4	3	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/5/2024 10:39	60504	NMAN_T2	0	0	0	0	0	0	0.36	0.33	1	1	0	1200	1200	0
8/5/2024 10:39	20403	ASHF_T2	0	0	0	0	0	0	0.95	1.14	0	0	0	0	0	0
8/5/2024 10:41	53601	DALM_T2	1	1	0	0.8	1	0.2	-0.71	-0.73	2	2	0	1500	1500	0
8/5/2024 10:42	24101	EHAZ_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 10:42	24104	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 10:42	24102	EHAZ_T1	1	1	0	0.7	0	-0.7	0.39	0.37	0	0	0	0	0	0
8/5/2024 10:42	24105	EHAZ_T1	4	4	0	6.85	7.05	0.2	0	0	0	0	0	0	0	0
8/5/2024 10:43	56501	ROCK_T2	26	22	-4	0.28	0.31	0.03	-1.82	-1.78	0	0	0	0	0	0
8/5/2024 10:45	46206	DANV_T2	8	13	5	0.75	0.63	-0.12	1.15	1.13	2	2	0	2100	2100	0
8/5/2024 10:45	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 10:45	46204	DANV_T2	0	8	8	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 10:45	53502	EVIL_T2	2	2	0	0.3	0.3	0	1.24	1.32	4	4	0	2400	2400	0
8/5/2024 10:46	47001	HUGH_T2	3	4	1	8.1	6.18	-1.92	-1	-0.94	1	1	0	900	900	0
8/5/2024 10:48	55101	WERT_T1	0	0	0	0	0	0	-1.85	-1.62	4	4	0	3300	3300	0
8/5/2024 10:48	40901	JESH_T1	3	1	-2	0.97	1.8	0.83	0	0	0	0	0	0	0	0
8/5/2024 10:48	40902	JESH_T1	0	0	0	0	0	0	-1.11	-1.1	3	3	0	1800	1800	0
8/5/2024 10:48	47001	HUGH_T2	3	4	1	8.1	6.18	-1.92	-1	-0.94	1	1	0	900	900	0
8/5/2024 10:49	42903	MIDD_T2	1	3	2	0.9	0.4	-0.5	2.65	2.44	0	0	0	0	0	0
8/5/2024 10:49	42902	MIDD_T2	1	2	1	2.6	2.3	-0.3	0	0	0	0	0	0	0	0
8/5/2024 10:49	42901	MIDD_T2	5	7	2	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
8/5/2024 10:50	56501	ROCK_T2	20	7	-13	0.32	0.37	0.05	0	0	0	0	0	0	0	0
8/5/2024 10:50	41702	LOGA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/5/2024 10:50	56504	ROCK_T2	0	0	0	0	0	0	0.35	0.3	0	0	0	0	0	0
8/5/2024 10:51	56501	ROCK_T2	20	7	-13	0.32	0.37	0.05	0	0	0	0	0	0	0	0
8/5/2024 10:51	56504	ROCK_T2	0	0	0	0	0	0	0.35	0.3	0	0	0	0	0	0
8/5/2024 10:51	57702	PAKT_T1	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
8/5/2024 10:52	47402	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 10:52	55101	WERT_T1	0	0	0	0	0	0	-1.62	-1.77	4	4	0	3300	3300	0
8/5/2024 10:52	56501	ROCK_T2	20	7	-13	0.32	0.37	0.05	0	0	0	0	0	0	0	0
8/5/2024 10:52	56504	ROCK_T2	0	0	0	0	0	0	0.3	0.33	0	0	0	0	0	0
8/5/2024 10:52	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
8/5/2024 10:52	47401	PENS_T1	3	6	3	0.3	0.3	0	0.59	0.63	0	0	0	0	0	0
8/5/2024 10:53	67603	WARW_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
8/5/2024 10:53	67605	WARW_T1	0	0	0	0	0	0	-0.66	-0.6	0	0	0	0	0	0
8/5/2024 10:54	56501	ROCK_T2	20	7	-13	0.32	0.37	0.05	0	0	0	0	0	0	0	0
8/5/2024 10:54	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
8/5/2024 10:54	55101	WERT_T1	0	0	0	0	0	0	-1.62	-1.77	4	4	0	3300	3300	0
8/5/2024 10:54	47401	PENS_T1	3	6	3	0.3	0.3	0	0.59	0.63	0	0	0	0	0	0
8/5/2024 10:54	56504	ROCK_T2	0	0	0	0	0	0	0.3	0.33	0	0	0	0	0	0
8/5/2024 10:54	47402	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 10:55	67605	WARW_T1	0	0	0	0	0	0	-0.66	-0.6	0	0	0	0	0	0
8/5/2024 10:55	51903	COPA_T1	0	0	0	0	0	0	0.48	0.14	0	0	0	0	0	0
8/5/2024 10:55	51904	COPA_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
8/5/2024 10:55	40201	BEGA_T2	1	5	4	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/5/2024 10:55	51905	COPA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 10:55	55101	WERT_T1	0	0	0	0	0	0	-1.62	-1.77	4	4	0	3300	3300	0
8/5/2024 10:56	52202	DEVO_T2	0	1	1	0	0	0	-0.68	-0.73	0	0	0	0	0	0
8/5/2024 10:56	52204	DEVO_T2	5	6	1	1.12	0.65	-0.47	0	0	0	0	0	0	0	0
8/5/2024 10:56	55101	WERT_T1	0	0	0	0	0	0	-1.62	-1.77	4	4	0	3300	3300	0
8/5/2024 10:57	67703	WERN_T2	0	1	1	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/5/2024 10:58	52202	DEVO_T2	0	1	1	0	0	0	-0.68	-0.73	0	0	0	0	0	0
8/5/2024 10:58	52204	DEVO_T2	5	6	1	1.12	0.65	-0.47	0	0	0	0	0	0	0	0
8/5/2024 10:59	52403	GRPA_T2	35	43	8	0.68	1.29	0.61	0	0	0	0	0	0	0	0
8/5/2024 10:59	47402	MOCA_T2	0	1	1	0	0	0	-0.44	-0.42	0	0	0	0	0	0
8/5/2024 10:59	52404	GRPA_T2	1	6	5	0.1	0.23	0.13	0	0	0	0	0	0	0	0
8/5/2024 10:59	52202	DEVO_T2	0	1	1	0	0	0	-1.35	-1.46	0	0	0	0	0	0
8/5/2024 10:59	52401	GRPA_T2	0	2	2	0	0	0	-0.27	-0.25	0	0	0	0	0	0
8/5/2024 10:59	52204	DEVO_T2	5	6	1	1.12	0.65	-0.47	0	0	0	0	0	0	0	0
8/5/2024 11:02	46506	LOHA_T1	1	2	1	0.1	0.15	0.05	-1.75	-1.71	2	2	0	2100	2100	0
8/5/2024 11:02	64203	KINZ_T1	2	2	0	0.7	0.7	0	0.37	0.22	3	3	0	2100	2100	0
8/5/2024 11:02	64204	KINZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/5/2024 11:02	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 11:02	46501	LOHA_T1	2	2	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/5/2024 11:03	64802	MONE_T2	0	2	2	0	0.35	0.35	0.54	0.38	0	0	0	0	0	0
8/5/2024 11:03	52404	GRPA_T2	3	7	4	0.67	0.4	-0.27	0	0	0	0	0	0	0	0
8/5/2024 11:03	52402	GRPA_T2	0	2	2	0	0	0	-0.48	-0.49	0	0	0	0	0	0
8/5/2024 11:03	40101	HUNT_T2	111	91	-20	0.46	0.38	-0.08	-0.31	-0.29	0	0	0	0	0	0
8/5/2024 11:03	46501	LOHA_T1	2	2	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/5/2024 11:03	46506	LOHA_T1	1	2	1	0.1	0.15	0.05	-1.75	-1.71	2	2	0	2100	2100	0
8/5/2024 11:03	52403	GRPA_T2	42	24	-18	0.58	1.29	0.71	0	0	0	0	0	0	0	0
8/5/2024 11:03	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/5/2024 11:03	52401	GRPA_T2	2	1	-1	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/5/2024 11:04	46501	LOHA_T1	2	2	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/5/2024 11:04	46506	LOHA_T1	1	2	1	0.1	0.15	0.05	-1.75	-1.71	2	2	0	2100	2100	0
8/5/2024 11:04	51604	DUKE_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
8/5/2024 11:07	57702	PAKT_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
8/5/2024 11:08	56504	ROCK_T2	0	0	0	0	0	0	0.33	0.38	0	0	0	0	0	0
8/5/2024 11:08	56501	ROCK_T2	7	5	-2	0.57	0.43	-0.14	0	0	0	0	0	0	0	0
8/5/2024 11:09	42601	TUSC_T1	0	0	0	0	0	0	-1.49	-1.27	2	2	0	1800	1800	0
8/5/2024 11:12	53601	DALM_T2	1	1	0	1	0.9	-0.1	-0.77	-0.82	2	2	0	1500	1500	0
8/5/2024 11:15	46801	HEPB_T2	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0	0
8/5/2024 11:15	52002	LING_T2	7	15	8	0.24	0.1	-0.14	1.29	1.48	0	0	0	0	0	0
8/5/2024 11:15	52004	LING_T2	2	3	1	4.4	3	-1.4	0	0	0	0	0	0	0	0
8/5/2024 11:15	52006	LING_T2	6	7	1	0.95	0.78	-0.17	0	0	0	0	0	0	0	0
8/5/2024 11:15	46803	HEPB_T2	0	1	1	0	0.7	0.7	0.46	0.47	0	0	0	0	0	0
8/5/2024 11:16	52006	LING_T2	6	7	1	0.95	0.78	-0.17	0	0	0	0	0	0	0	0
8/5/2024 11:16	52002	LING_T2	7	15	8	0.24	0.1	-0.14	0.64	0.74	0	0	0	0	0	0
8/5/2024 11:16	52004	LING_T2	2	3	1	4.4	3	-1.4	0	0	0	0	0	0	0	0
8/5/2024 11:18	51305	WIND_T1	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
8/5/2024 11:18	52004	LING_T2	2	3	1	4.4	3	-1.4	0	0	0	0	0	0	0	0
8/5/2024 11:18	56504	ROCK_T2	0	0	0	0	0	0	0.33	0.38	0	0	0	0	0	0
8/5/2024 11:18	52006	LING_T2	6	7	1	0.95	0.78	-0.17	0	0	0	0	0	0	0	0
8/5/2024 11:18	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 11:18	51303	WIND_T1	14	14	0	0.46	0.39	-0.07	0	0	0	0	0	0	0	0
8/5/2024 11:18	56501	ROCK_T2	3	9	6	0.43	0.41	-0.02	0	0	0	0	0	0	0	0
8/5/2024 11:18	52002	LING_T2	7	15	8	0.24	0.1	-0.14	0.64	0.74	0	0	0	0	0	0
8/5/2024 11:19	52002	LING_T2	7	15	8	0.24	0.1	-0.14	0.64	0.74	0	0	0	0	0	0
8/5/2024 11:19	52006	LING_T2	6	7	1	0.95	0.78	-0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/5/2024 11:19	52004	LING_T2	2	3	1	4.4	3	-1.4	0	0	0	0	0	0	0	0
8/5/2024 11:20	40603	PIGR_T1	1	5	4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 11:20	52004	LING_T2	2	3	1	4.4	3	-1.4	0	0	0	0	0	0	0	0
8/5/2024 11:20	40602	PIGR_T1	1	1	0	1.7	1.2	-0.5	-0.9	-0.85	1	1	0	600	600	0
8/5/2024 11:20	52002	LING_T2	7	15	8	0.24	0.1	-0.14	0.64	0.74	0	0	0	0	0	0
8/5/2024 11:20	64902	MILL_T2	0	0	0	0	0	0	-0.52	-0.46	1	1	0	900	900	0
8/5/2024 11:20	52006	LING_T2	6	7	1	0.95	0.78	-0.17	0	0	0	0	0	0	0	0
8/5/2024 11:20	40601	PIGR_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/5/2024 11:21	52002	LING_T2	7	15	8	0.24	0.1	-0.14	0.64	0.74	0	0	0	0	0	0
8/5/2024 11:21	52006	LING_T2	6	7	1	0.95	0.78	-0.17	0	0	0	0	0	0	0	0
8/5/2024 11:21	52004	LING_T2	2	3	1	4.4	3	-1.4	0	0	0	0	0	0	0	0
8/5/2024 11:22	42802	SELI_T1	0	0	0	0	0	0	-1.05	-1.05	1	1	0	900	900	0
8/5/2024 11:22	57601	RUTH_T2	0	0	0	0	0	0	-0.22	-0.2	1	1	0	900	900	0
8/5/2024 11:22	61102	BERK_T5	0	0	0	0	0	0	0.43	0.42	2	2	0	1200	1200	0
8/5/2024 11:23	60201	ATGL_T2	0	0	0	0	0	0	0.68	0.63	2	2	0	900	900	0
8/5/2024 11:24	42802	SELI_T1	0	0	0	0	0	0	-3.14	-3.14	3	3	0	2700	2700	0
8/5/2024 11:25	44801	EDAN_T2	2	5	3	0.65	0.5	-0.15	-1.1	-1.14	0	0	0	0	0	0
8/5/2024 11:25	42802	SELI_T1	0	0	0	0	0	0	-2.09	-2.1	2	2	0	1800	1800	0
8/5/2024 11:27	61703	ELIZ_T1	0	0	0	0	0	0	-1.83	-1.93	2	2	0	2100	2100	0
8/5/2024 11:27	42802	SELI_T1	0	0	0	0	0	0	-1.05	-1.05	1	1	0	900	900	0
8/5/2024 11:27	61701	ELIZ_T1	1	1	0	2.8	3.2	0.4	0	0	0	0	0	0	0	0
8/5/2024 11:28	61701	ELIZ_T1	1	1	0	2.8	3.2	0.4	0	0	0	0	0	0	0	0
8/5/2024 11:28	60801	BUCK_T1	0	0	0	0	0	0	-0.01	0.6	0	0	0	0	0	0
8/5/2024 11:28	61703	ELIZ_T1	0	0	0	0	0	0	-1.83	-1.93	2	2	0	2100	2100	0
8/5/2024 11:29	44801	EDAN_T2	2	5	3	0.65	0.5	-0.15	-1.1	-1.14	0	0	0	0	0	0
8/5/2024 11:30	63403	HONY_T2	0	2	2	0	0.35	0.35	-0.7	-0.66	1	1	0	600	600	0
8/5/2024 11:30	61701	ELIZ_T1	1	2	1	2.7	1.85	-0.85	0	0	0	0	0	0	0	0
8/5/2024 11:30	61703	ELIZ_T1	0	0	0	0	0	0	-3.66	-3.86	4	4	0	4200	4200	0
8/5/2024 11:36	64101	REFR_T1	3	10	7	1.13	1.33	0.2	-0.03	0.04	0	0	0	0	0	0
8/5/2024 11:39	67804	WLAN_T1	10	10	0	0.94	0.78	-0.16	0	0	0	0	0	0	0	0
8/5/2024 11:39	67801	WLAN_T1	5	0	-5	0.42	0	-0.42	0.11	-0.52	0	0	0	0	0	0
8/5/2024 11:42	29402	BELT_T1	2	5	3	4.25	2.5	-1.75	0	0	0	0	0	0	0	0
8/5/2024 11:42	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/5/2024 11:43	40201	BEGA_T2	2	4	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/5/2024 11:44	53601	DALM_T2	1	1	0	0.4	0.1	-0.3	-0.83	-0.67	2	2	0	1500	1500	0
8/5/2024 11:46	20603	GRWO_T2	0	1	1	0	0.2	0.2	-0.27	-0.22	1	1	0	900	900	0
8/5/2024 11:46	59003	MIFF_T1	1	0	-1	0.1	0	-0.1	-0.94	-0.69	0	0	0	0	0	0
8/5/2024 11:46	20601	GRWO_T2	105	120	15	0.73	0.61	-0.12	0	0	0	0	0	0	0	0
8/5/2024 11:48	20603	GRWO_T2	0	1	1	0	0.2	0.2	-0.27	-0.22	1	1	0	900	900	0
8/5/2024 11:48	20601	GRWO_T2	105	120	15	0.73	0.61	-0.12	0	0	0	0	0	0	0	0
8/5/2024 11:52	41902	REED_T1	29	37	8	0.57	0.49	-0.08	0.65	0.62	1	1	0	900	900	0
8/5/2024 11:52	41903	REED_T1	4	4	0	0.38	0.43	0.05	0	0	0	0	0	0	0	0
8/5/2024 11:53	57505	LAWN_T3	1	1	0	6	0	-6	0.27	0.28	0	0	0	0	0	0
8/5/2024 11:53	57502	LAWN_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 11:54	42701	AUGU_T1	0	1	1	0	0	0	0	0	2	2	0	1800	1800	0
8/5/2024 11:55	61102	BERK_T5	0	0	0	0	0	0	0.43	0.44	2	2	0	1200	1200	0
8/5/2024 11:56	61102	BERK_T5	0	0	0	0	0	0	0.43	0.44	2	2	0	1200	1200	0
8/5/2024 11:57	61102	BERK_T5	0	0	0	0	0	0	0.86	0.89	4	4	0	2400	2400	0
8/5/2024 11:57	42701	AUGU_T1	0	1	1	0	0	0	0	0	2	2	0	1800	1800	0
8/5/2024 11:58	42503	ALTA_T2	0	1	1	0	0	0	0.32	0.36	0	0	0	0	0	0
8/5/2024 11:58	42501	ALTA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/5/2024 11:59	53601	DALM_T2	0	1	1	0	0.3	0.3	-0.67	-0.95	2	2	0	1500	1500	0
8/5/2024 11:59	61102	BERK_T5	0	0	0	0	0	0	1.29	1.33	6	6	0	3600	3600	0
8/5/2024 12:01	22905	HARW_T1	8	7	-1	0.18	0	-0.18	0	0	0	0	0	0	0	0
8/5/2024 12:01	22901	HARW_T1	10	16	6	0.63	0.72	0.09	0	0	0	0	0	0	0	0
8/5/2024 12:01	22904	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 12:01	22903	HARW_T1	1	10	9	0.4	0	-0.4	-0.26	-0.4	0	0	0	0	0	0
8/5/2024 12:02	47101	MARL_T1	48	73	25	0.96	0.8	-0.16	-0.05	-0.05	0	0	0	0	0	0
8/5/2024 12:03	47101	MARL_T1	48	73	25	0.96	0.8	-0.16	-0.05	-0.05	0	0	0	0	0	0
8/5/2024 12:03	26803	JAFR_T1	0	0	0	0	0	0	0.02	0.03	1	1	0	900	900	0
8/5/2024 12:04	40101	HUNT_T2	52	137	85	0.39	0.39	0	-0.28	-0.29	0	0	0	0	0	0
8/5/2024 12:04	57303	MOAL_T2	1	1	0	8.6	8.4	-0.2	0	0	0	0	0	0	0	0
8/5/2024 12:04	57304	MOAL_T2	1	1	0	0.3	0.5	0.2	-0.04	-0.02	0	0	0	0	0	0
8/5/2024 12:05	67401	WAKE_T2	0	0	0	0	0	0	-0.4	-0.27	0	0	0	0	0	0
8/5/2024 12:05	43102	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 12:05	67402	WAKE_T2	0	4	4	0	0.77	0.77	0	0	0	0	0	0	0	0
8/5/2024 12:05	43103	SMIL_T2	0	0	0	0	0	0	-0.18	-0.14	0	0	0	0	0	0
8/5/2024 12:06	43103	SMIL_T2	0	0	0	0	0	0	-0.36	-0.28	0	0	0	0	0	0
8/5/2024 12:06	43102	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 12:07	21701	SUBU_T1	1	4	3	7.3	7.3	0	1.29	1.3	0	0	0	0	0	0
8/5/2024 12:07	55001	NEWP_T1	0	3	3	0	0.1	0.1	-0.2	-0.19	1	1	0	600	600	0
8/5/2024 12:07	21703	SUBU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 12:07	55002	NEWP_T1	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
8/5/2024 12:07	21705	SUBU_T1	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
8/5/2024 12:10	67002	STHI_T2	0	0	0	0	0	0	1.57	1.63	0	0	0	0	0	0
8/5/2024 12:11	44801	EDAN_T2	2	2	0	0.8	0.95	0.15	-1.07	-1.09	0	0	0	0	0	0
8/5/2024 12:11	27201	YATE_T1	0	0	0	0	0	0	0.2	-0.66	0	0	0	0	0	0
8/5/2024 12:13	63401	HONY_T1	0	0	0	0	0	0	0.53	0.47	1	1	0	600	600	0
8/5/2024 12:14	41002	LAUR_T2	4	4	0	0.53	0.63	0.1	0.41	0.4	0	0	0	0	0	0
8/5/2024 12:14	41001	LAUR_T2	4	16	12	0.75	0.64	-0.11	0	0	0	0	0	0	0	0
8/5/2024 12:15	64302	LINC_T2	28	47	19	0.66	0.7	0.04	1.77	1.84	0	0	0	0	0	0
8/5/2024 12:16	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 12:16	63401	HONY_T1	0	0	0	0	0	0	0.53	0.47	1	1	0	600	600	0
8/5/2024 12:16	52403	GRPA_T2	21	7	-14	0.79	1.26	0.47	0	0	0	0	0	0	0	0
8/5/2024 12:16	52402	GRPA_T2	5	14	9	0.74	0.84	0.1	-0.43	-0.38	0	0	0	0	0	0
8/5/2024 12:16	52401	GRPA_T2	5	4	-1	0.98	0.4	-0.58	0	0	0	0	0	0	0	0
8/5/2024 12:18	58401	MORO_T1	0	0	0	0	0	0	-0.96	-1	2	2	0	1500	1500	0
8/5/2024 12:18	57702	PAXT_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
8/5/2024 12:18	58402	MORO_T1	4	3	-1	2.45	0.2	-2.25	0	0	0	0	0	0	0	0
8/5/2024 12:19	40901	JESH_T1	1	3	2	2.3	1	-1.3	0	0	0	0	0	0	0	0
8/5/2024 12:19	40902	JESH_T1	0	2	2	0	0.7	0.7	-1.74	-1.61	6	6	0	3600	3600	0
8/5/2024 12:20	52402	GRPA_T2	5	14	9	0.74	0.84	0.1	0	0	0	0	0	0	0	0
8/5/2024 12:20	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 12:20	58402	MORO_T1	4	3	-1	2.45	0.2	-2.25	0	0	0	0	0	0	0	0
8/5/2024 12:20	52403	GRPA_T2	21	7	-14	0.79	1.26	0.47	0	-0.14	0	0	0	0	0	0
8/5/2024 12:20	52401	GRPA_T2	5	4	-1	0.98	0.4	-0.58	0	0	0	0	0	0	0	0
8/5/2024 12:20	58401	MORO_T1	0	0	0	0	0	0	-0.96	-1	2	2	0	1500	1500	0
8/5/2024 12:21	50701	SMEC_T1	0	1	1	0	0.6	0.6	0.7	-0.49	0	1	1	0	1200	1200
8/5/2024 12:23	41902	REED_T1	34	97	63	0.53	0.49	-0.04	0.61	0.68	1	1	0	900	900	0
8/5/2024 12:23	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 12:23	41903	REED_T1	4	7	3	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
8/5/2024 12:24	67602	WARW_T2	0	0	0	0	0	0	0.8	0.53	2	2	0	1500	1500	0
8/5/2024 12:25	45501	DERR_T2	3	6	3	0.2	0.5	0.3	1.27	1.27	2	2	0	1800	1800	0
8/5/2024 12:25	67602	WARW_T2	0	0	0	0	0	0	1.6	1.05	4	4	0	3000	3000	0
8/5/2024 12:25	41602	CLEV_T1	72	48	-24	0.63	0.39	-0.24	0	0	1	1	0	600	600	0
8/5/2024 12:25	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 12:26	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 12:26	45402	WBLO_T2	0	0	0	0	0	0	-0.81	-0.77	1	1	0	900	900	0
8/5/2024 12:26	67602	WARW_T2	0	0	0	0	0	0	0.8	0.53	2	2	0	1500	1500	0
8/5/2024 12:26	45501	DERR_T2	3	6	3	0.2	0.5	0.3	1.27	1.27	2	2	0	1800	1800	0
8/5/2024 12:28	44801	EDAN_T2	2	2	0	0.85	1.3	0.45	-1.09	-1.09	0	0	0	0	0	0
8/5/2024 12:28	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 12:28	45501	DERR_T2	3	6	3	0.2	0.5	0.3	1.27	1.27	2	2	0	1800	1800	0
8/5/2024 12:29	63401	HONY_T1	0	0	0	0	0	0	0.47	0.45	1	1	0	600	600	0
8/5/2024 12:29	67602	WARW_T2	0	0	0	0	0	0	2.41	1.58	6	6	0	4500	4500	0
8/5/2024 12:30	53903	HALI_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
8/5/2024 12:30	53901	HALI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 12:30	41002	LAUR_T2	3	4	1	1.17	0.8	-0.37	0.4	0.4	0	0	0	0	0	0
8/5/2024 12:30	41001	LAUR_T2	8	28	20	0.81	0.63	-0.18	0	0	0	0	0	0	0	0
8/5/2024 12:30	53902	HALI_T2	2	2	0	2	2.15	0.15	-0.37	-0.38	0	0	0	0	0	0
8/5/2024 12:31	46802	HEPB_T1	0	0	0	0	0	0	0.33	0.24	0	0	0	0	0	0
8/5/2024 12:33	42902	MIDD_T2	27	27	0	1.93	1.6	-0.33	0	0	0	0	0	0	0	0
8/5/2024 12:33	41002	LAUR_T2	3	4	1	1.17	0.8	-0.37	0.4	0.4	0	0	0	0	0	0
8/5/2024 12:33	42903	MIDD_T2	0	37	37	0	0.58	0.58	0	0	0	0	0	0	0	0
8/5/2024 12:33	42901	MIDD_T2	3	9	6	0.73	0.84	0.11	0	0	0	0	0	0	0	0
8/5/2024 12:33	41001	LAUR_T2	8	28	20	0.81	0.63	-0.18	0	0	0	0	0	0	0	0
8/5/2024 12:33	16603	PONO_T2	0	0	0	0	0	0	0.57	0.42	1	1	0	1200	1200	0
8/5/2024 12:34	42902	MIDD_T2	27	27	0	1.93	1.6	-0.33	-0.78	-0.81	3	3	0	1800	1800	0
8/5/2024 12:34	43102	SMIL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/5/2024 12:34	43201	MVIL_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 12:34	43202	MVIL_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
8/5/2024 12:34	65901	SAKR_T2	1	1	0	5.7	5.4	-0.3	-0.08	-0.01	2	2	0	1500	1500	0
8/5/2024 12:34	42901	MIDD_T2	3	9	6	0.73	0.84	0.11	0	0	0	0	0	0	0	0
8/5/2024 12:34	67602	WARW_T2	0	0	0	0	0	0	0.8	0.53	2	2	0	1500	1500	0
8/5/2024 12:34	42903	MIDD_T2	0	37	37	0	0.58	0.58	0	0	0	0	0	0	0	0
8/5/2024 12:34	43103	SMIL_T2	0	0	0	0	0	0	-0.1	-1.33	0	0	0	0	0	0
8/5/2024 12:35	43202	MVIL_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
8/5/2024 12:35	43201	MVIL_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 12:35	42903	MIDD_T2	0	37	37	0	0.58	0.58	1.52	2.28	0	0	0	0	0	0
8/5/2024 12:35	43103	SMIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 12:35	42901	MIDD_T2	3	9	6	0.73	0.84	0.11	0	0	0	0	0	0	0	0
8/5/2024 12:35	43102	SMIL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/5/2024 12:35	42902	MIDD_T2	27	27	0	1.93	1.6	-0.33	-0.52	-0.54	2	2	0	1200	1200	0
8/5/2024 12:37	55103	WERT_T1	1	1	0	1.1	2.6	1.5	0	0	0	0	0	0	0	0
8/5/2024 12:37	55105	WERT_T1	0	0	0	0	0	0	0.61	0.77	1	1	0	900	900	0
8/5/2024 12:37	47403	PENS_T1	1	2	1	2.2	1.5	-0.7	0	0	0	0	0	0	0	0
8/5/2024 12:37	47401	PENS_T1	2	4	2	0.45	0.4	-0.05	0.51	0.45	0	0	0	0	0	0
8/5/2024 12:37	55101	WERT_T1	0	15	15	0	0.32	0.32	0	0	0	0	0	0	0	0
8/5/2024 12:38	59202	THOM_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
8/5/2024 12:38	55103	WERT_T1	1	1	0	1.1	2.6	1.5	0	0	0	0	0	0	0	0
8/5/2024 12:38	43102	SMIL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/5/2024 12:38	47403	PENS_T1	1	2	1	2.2	1.5	-0.7	0	0	0	0	0	0	0	0
8/5/2024 12:38	47401	PENS_T1	2	4	2	0.45	0.4	-0.05	1.02	0.9	0	0	0	0	0	0
8/5/2024 12:38	55101	WERT_T1	0	15	15	0	0.32	0.32	0	0	0	0	0	0	0	0
8/5/2024 12:38	43103	SMIL_T2	0	0	0	0	0	0	-1.33	-1.36	0	0	0	0	0	0
8/5/2024 12:38	55105	WERT_T1	0	0	0	0	0	0	0.61	0.77	1	1	0	900	900	0
8/5/2024 12:39	59202	THOM_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
8/5/2024 12:39	47403	PENS_T1	1	2	1	2.2	1.5	-0.7	0	0	0	0	0	0	0	0
8/5/2024 12:39	47401	PENS_T1	2	4	2	0.45	0.4	-0.05	0.51	0.45	0	0	0	0	0	0
8/5/2024 12:40	55101	WERT_T1	0	15	15	0	0.32	0.32	-1.49	-1.51	4	4	0	3300	3300	0
8/5/2024 12:40	55103	WERT_T1	1	1	0	1.1	2.6	1.5	0	0	0	0	0	0	0	0
8/5/2024 12:41	55103	WERT_T1	1	1	0	1.1	2.6	1.5	0	0	0	0	0	0	0	0
8/5/2024 12:41	67602	WARW_T2	0	0	0	0	0	0	0.53	0.84	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/5/2024 12:41	55101	WERT_T1	0	15	15	0	0.32	0.32	-4.47	-4.52	12	12	0	9900	9900	0
8/5/2024 12:42	61505	EPET_T2	0	0	0	0	0	0	0.5	0.54	0	0	0	0	0	0
8/5/2024 12:44	24702	FLND_T2	2	0	-2	0.3	0	-0.3	0.88	0.63	1	1	0	1200	1200	0
8/5/2024 12:44	61302	EARL_T1	0	0	0	0	0	0	1.08	1.2	3	3	0	2700	2700	0
8/5/2024 12:44	24701	FLND_T2	9	0	-9	0.48	0	-0.48	0	0	0	0	0	0	0	0
8/5/2024 12:44	40101	HUNT_T2	137	267	130	0.5	0.59	0.09	-0.27	-0.24	0	0	0	0	0	0
8/5/2024 12:44	61304	EARL_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 12:44	61303	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 12:46	63602	LETO_T1	0	2	2	0	0	0	0.16	0.26	1	1	0	600	600	0
8/5/2024 12:46	46506	LOHA_T1	0	0	0	0	0	0	-1.57	-1.52	2	2	0	2100	2100	0
8/5/2024 12:46	46501	LOHA_T1	8	6	-2	0.79	0.55	-0.24	0	0	0	0	0	0	0	0
8/5/2024 12:47	65402	MARI_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/5/2024 12:47	65401	MARI_T1	17	17	0	3	3.8	0.8	0	0	0	0	0	0	0	0
8/5/2024 12:47	46501	LOHA_T1	8	6	-2	0.79	0.55	-0.24	0	0	0	0	0	0	0	0
8/5/2024 12:47	46506	LOHA_T1	0	0	0	0	0	0	-1.57	-1.52	2	2	0	2100	2100	0
8/5/2024 12:47	41802	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 12:47	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 12:47	63602	LETO_T1	0	2	2	0	0	0	0.16	0.26	1	1	0	600	600	0
8/5/2024 12:48	40101	HUNT_T2	161	283	122	0.59	0.7	0.11	-0.27	-0.24	0	0	0	0	0	0
8/5/2024 12:48	41802	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 12:48	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 12:50	58701	ROSE_T2	0	3	3	0	0.7	0.7	-0.24	-0.2	1	1	0	600	600	0
8/5/2024 12:50	58705	ROSE_T2	2	4	2	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
8/5/2024 12:50	50701	SMEC_T1	1	2	1	0.6	0.55	-0.05	-0.57	-0.47	1	1	0	1200	1200	0
8/5/2024 12:50	58706	ROSE_T2	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
8/5/2024 12:51	43201	MVIL_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
8/5/2024 12:51	59202	THOM_T1	1	3	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/5/2024 12:51	43202	MVIL_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
8/5/2024 12:53	50701	SMEC_T1	1	2	1	0.6	0.55	-0.05	-0.47	-0.36	1	1	0	1200	1200	0
8/5/2024 12:54	59202	THOM_T1	1	3	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/5/2024 12:55	61101	BERK_T5	1	7	6	9.8	4.2	-5.6	0	0	0	0	0	0	0	0
8/5/2024 12:55	59003	MIFF_T1	0	0	0	0	0	0	-1.44	-1.46	0	0	0	0	0	0
8/5/2024 12:55	61102	BERK_T5	0	0	0	0	0	0	0.54	0.63	2	2	0	1200	1200	0
8/5/2024 12:56	53501	EVIL_T2	0	1207	1207	0	1.05	1.05	-0.79	-0.01	6	4	-2	4200	1600	-2600
8/5/2024 12:56	45501	DERR_T2	4	13	9	0.43	0.51	0.08	1.47	1.34	2	2	0	1800	1800	0
8/5/2024 12:56	45502	DERR_T2	1	16	15	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/5/2024 12:56	46001	BERW_T1	0	1	1	0	0	0	1.82	0.6	0	0	0	0	0	0
8/5/2024 12:56	53502	EVIL_T2	1	204	203	1	1	0	0	0	0	0	0	0	0	0
8/5/2024 12:57	45501	DERR_T2	4	13	9	0.43	0.51	0.08	2.93	2.67	4	4	0	3600	3600	0
8/5/2024 12:57	45502	DERR_T2	1	16	15	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/5/2024 12:57	53501	EVIL_T2	0	1207	1207	0	1.05	1.05	-0.4	-0.01	3	2	-1	2100	800	-1300
8/5/2024 12:57	53502	EVIL_T2	1	204	203	1	1	0	0	0	0	0	0	0	0	0
8/5/2024 12:58	45502	DERR_T2	1	16	15	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/5/2024 12:58	45501	DERR_T2	4	13	9	0.43	0.51	0.08	1.47	1.34	2	2	0	1800	1800	0
8/5/2024 12:58	53501	EVIL_T2	0	1207	1207	0	1.05	1.05	-0.4	-0.01	3	2	-1	2100	800	-1300
8/5/2024 12:58	53502	EVIL_T2	1	204	203	1	1	0	0	0	0	0	0	0	0	0
8/5/2024 12:59	46001	BERW_T1	0	1	1	0	0	0	1.82	0.6	0	0	0	0	0	0
8/5/2024 13:00	40101	HUNT_T2	262	267	5	0.75	0.48	-0.27	-0.24	-0.22	0	0	0	0	0	0
8/5/2024 13:00	53501	EVIL_T2	556	4	-552	8.9	0	-8.9	-0.4	-0.01	3	2	-1	2100	800	-1300
8/5/2024 13:00	53502	EVIL_T2	204	2	-202	0.69	0.8	0.11	0.63	-0.42	2	3	1	1200	2100	900
8/5/2024 13:02	52403	GRPA_T2	57	56	-1	0.98	0.75	-0.23	-0.03	-0.09	0	0	0	0	0	0
8/5/2024 13:02	52402	GRPA_T2	11	47	36	0.96	0.56	-0.4	0	0	0	0	0	0	0	0
8/5/2024 13:02	52401	GRPA_T2	5	4	-1	0.38	0	-0.38	0	0	0	0	0	0	0	0
8/5/2024 13:03	54701	NEBL_T1	34	104	70	0.41	0.41	0	0	0	1	1	0	600	600	0
8/5/2024 13:03	47101	MARI_T1	43	53	10	0.7	0.75	0.05	-0.61	-0.53	1	1	0	600	600	0
8/5/2024 13:04	52403	GRPA_T2	57	56	-1	0.98	0.75	-0.23	-0.03	-0.09	0	0	0	0	0	0
8/5/2024 13:04	42902	MIDD_T2	27	28	1	1.6	1.64	0.04	-0.14	-0.14	1	1	0	600	600	0
8/5/2024 13:04	40101	HUNT_T2	262	267	5	0.75	0.48	-0.27	-0.24	-0.22	0	0	0	0	0	0
8/5/2024 13:04	52402	GRPA_T2	11	47	36	0.96	0.56	-0.4	0	0	0	0	0	0	0	0
8/5/2024 13:04	42901	MIDD_T2	9	20	11	1.22	0.97	-0.25	0	0	0	0	0	0	0	0
8/5/2024 13:04	52401	GRPA_T2	5	4	-1	0.38	0	-0.38	0	0	0	0	0	0	0	0
8/5/2024 13:04	42903	MIDD_T2	37	57	20	0.53	0.53	0	0	0	0	0	0	0	0	0
8/5/2024 13:05	43102	SMIL_T2	1	1	0	0.5	1.3	0.8	0	0	0	0	0	0	0	0
8/5/2024 13:05	42901	MIDD_T2	9	20	11	1.22	0.97	-0.25	0	0	0	0	0	0	0	0
8/5/2024 13:05	42903	MIDD_T2	37	57	20	0.53	0.53	0	0	0	0	0	0	0	0	0
8/5/2024 13:05	43103	SMIL_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 13:05	42902	MIDD_T2	27	28	1	1.6	1.64	0.04	-0.14	-0.14	1	1	0	600	600	0
8/5/2024 13:05	43101	SMIL_T2	0	5	5	0	0.6	0.6	-0.31	-0.29	1	1	0	300	300	0
8/5/2024 13:06	42902	MIDD_T2	27	28	1	1.6	1.64	0.04	0	0	0	0	0	0	0	0
8/5/2024 13:06	42901	MIDD_T2	9	20	11	1.22	0.97	-0.25	0	0	0	0	0	0	0	0
8/5/2024 13:06	42903	MIDD_T2	37	57	20	0.53	0.53	0	2.56	2.54	0	0	0	0	0	0
8/5/2024 13:07	42901	MIDD_T2	9	20	11	1.22	0.97	-0.25	0	0	0	0	0	0	0	0
8/5/2024 13:07	42903	MIDD_T2	37	57	20	0.53	0.53	0	0	0	0	0	0	0	0	0
8/5/2024 13:07	42902	MIDD_T2	27	28	1	1.6	1.64	0.04	-0.14	-0.01	1	1	0	600	600	0
8/5/2024 13:08	20401	ASHF_T2	23	22	-1	1.06	1.32	0.26	0	0	0	0	0	0	0	0
8/5/2024 13:08	43108	SMIL_T2	0	0	0	0	0	0	-0.67	-0.65	1	1	0	1200	1200	0
8/5/2024 13:08	43103	SMIL_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 13:08	43101	SMIL_T2	0	5	5	0	0.6	0.6	0	0	0	0	0	0	0	0
8/5/2024 13:08	45402	WELO_T2	0	1	1	0	0	0	-0.69	-0.55	1	1	0	900	900	0
8/5/2024 13:08	43102	SMIL_T2	1	1	0	0.5	1.3	0.8	0	0	0	0	0	0	0	0
8/5/2024 13:08	20402	ASHF_T2	27	26	-1	1.07	0.91	-0.16	0	0	0	0	0	0	0	0
8/5/2024 13:08	20403	ASHF_T2	38	24	-14	0.48	0.26	-0.22	1.43	1.34	0	0	0	0	0	0
8/5/2024 13:09	40201	BEGA_T2	7	8	1	0.91	0.68	-0.23	0	0	0	0	0	0	0	0
8/5/2024 13:10	51603	DUKE_T1	0	0	0	0	0	0	1.15	0.29	0	0	0	0	0	0
8/5/2024 13:12	44801	EDAN_T2	2	4	2	1.1	0.83	-0.27	0	0	0	0	0	0	0	0
8/5/2024 13:12	44802	EDAN_T2	0	0	0	0	0	0	-1.22	-1.18	0	0	0	0	0	0
8/5/2024 13:13	51603	DUKE_T1	0	0	0	0	0	0	1.15	0.29	0	0	0	0	0	0
8/5/2024 13:13	44801	EDAN_T2	2	4	2	1.1	0.83	-0.27	0	0	0	0	0	0	0	0
8/5/2024 13:13	53501	EVIL_T2	556	4	-552	8.9	0	-8.9	-0.02	-0.02	6	6	0	2400	2400	0
8/5/2024 13:13	40201	BEGA_T2	7	8	1	0.91	0.68	-0.23	0	0	0	0	0	0	0	0
8/5/2024 13:13	44802	EDAN_T2	0	0	0	0	0	0	-1.22	-1.18	0	0	0	0	0	0
8/5/2024 13:13	53502	EVIL_T2	204	2	-202	0.69	0.8	0.11	0	0	0	0	0	0	0	0
8/5/2024 13:15	44802	EDAN_T2	0	0	0	0	0	0	-3.66	-3.55	0	0	0	0	0	0
8/5/2024 13:15	44801	EDAN_T2	4	5	1	0.73	0.64	-0.09	0	0	0	0	0	0	0	0
8/5/2024 13:16	44802	EDAN_T2	0	0	0	0	0	0	-1.22	-1.18	0	0	0	0	0	0
8/5/2024 13:16	44801	EDAN_T2	4	5	1	0.73	0.64	-0.09	0	0	0	0	0	0	0	0
8/5/2024 13:16	46801	HEPB_T2	4	4	0	0.33	0.3	-0.03	0.41	0.42	0	0	0	0	0	0
8/5/2024 13:16	15604	NSTR_T1	1	2	1	0.7	0.5	-0.2	0.97	0.98	0	0	0	0	0	0
8/5/2024 13:17	64904	MILL_T1	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
8/5/2024 13:17	46101	MACI_T2	0	0	0	0	0	0	0.85	0.78	1	1	0	1200	1200	0
8/5/2024 13:18	53501	EVIL_T2	5	17	12	5.96	0.58	-5.38	-0.01	-0.01	2	2	0	800	800	0
8/5/2024 13:18	63601	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/5/2024 13:18	63602	LETO_T1	0	0	0	0	0	0	0.24	0.23	1	1	0	600	600	0
8/5/2024 13:18	53502	EVIL_T2	1	5	4	1	0.8	-0.2	0	0	0	0	0	0	0	0
8/5/2024 13:22	65802	RTWN_T2	0	1	1	0	0.8	0.8	-0.19	-0.18	0	0	0	0	0	0
8/5/2024 13:22	65803	RTWN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 13:23	27201	YATE_T1	1	1	0	0.2	0	-0.2	-0.55	-0.55	0	0	0	0	0	0
8/5/2024 13:25	60101	COCA_T1	0	1	1	0	0.7	0.7	-0.29	-0.29	2	2	0	1800	1800	0
8/5/2024 13:26	42701	AUGU_T1	15	32	17	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
8/5/2024 13:27	53501	EVIL_T2	5	17	12	5.96	0.58	-5.38	-0.01	-0.01	4	4	0	1600	1600	0
8/5/2024 13:27	53502	EVIL_T2	1	5	4	1	0.8	-0.2	0	0	0	0	0	0	0	0
8/5/2024 13:29	53501	EVIL_T2	5	17	12	5.96	0.58	-5.38	-0.01	-0.01	2	2	0	800	800	0
8/5/2024 13:29	22903	HARW_T1	12	16	4	0.58	0.46	-0.12	0	0	0	0	0	0	0	0
8/5/2024 13:29	22905	HARW_T1	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
8/5/2024 13:29	40101	HUNT_T2	237	141	-96	0.71	0.46	-0.25	-0.69	-1.76	0	0	0	0	0	0
8/5/2024 13:29	22901	HARW_T1	7	21	14	0.37	0.52	0.15	0	0	0	0	0	0	0	0
8/5/2024 13:29	42701	AUGU_T1	15	32	17	0.38	0.36	-0.02	0	0	2	2	0	1800	1800	0
8/5/2024 13:29	53502	EVIL_T2	1	5	4	1	0.8	-0.2	0	0	0	0	0	0	0	0
8/5/2024 13:30	53501	EVIL_T2	6	23	17	0.77	0.42	-0.35	-0.01	-0.01	2	2	0	800	800	0
8/5/2024 13:30	53502	EVIL_T2	2	5	3	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
8/5/2024 13:31	40101	HUNT_T2	140	100	-40	0.61	0.42	-0.19	-0.34	-0.88	0	0	0	0	0	0
8/5/2024 13:31	44802	EDAN_T2	0	0	0	0	0	0	-1.18	-1.2	0	0	0	0	0	0
8/5/2024 13:31	44801	EDAN_T2	4	5	1	0.8	0.56	-0.24	0	0	0	0	0	0	0	0
8/5/2024 13:33	46102	MACI_T1	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
8/5/2024 13:36	53601	DALM_T2	1	1	0	0.2	0.2	0	-0.8	-0.64	2	2	0	1500	1500	0
8/5/2024 13:37	42902	MIDD_T2	28	27	-1	2.34	0.7	-1.64	-0.8	-0.78	4	4	0	1800	1800	0
8/5/2024 13:37	42903	MIDD_T2	16	5	-11	0.53	0.37	-0.16	0	0	0	0	0	0	0	0
8/5/2024 13:37	42901	MIDD_T2	18	15	-3	0.97	0.86	-0.11	0	0	0	0	0	0	0	0
8/5/2024 13:38	62604	ENGL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 13:38	62601	ENGL_T1	0	0	0	0	0	0	-0.9	-0.94	0	0	0	0	0	0
8/5/2024 13:38	62607	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 13:38	62606	ENGL_T1	1	9	8	0.4	0.68	0.28	0	0	0	0	0	0	0	0
8/5/2024 13:39	42701	AUGU_T1	15	34	19	0.44	0.36	-0.08	0	0	2	2	0	1800	1800	0
8/5/2024 13:41	40201	BEGA_T2	7	10	3	0.61	0.43	-0.18	0	0	0	0	0	0	0	0
8/5/2024 13:41	40101	HUNT_T2	140	100	-40	0.61	0.42	-0.19	-0.88	-0.88	0	0	0	0	0	0
8/5/2024 13:44	43102	SMIL_T2	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
8/5/2024 13:44	43108	SMIL_T2	0	2	2	0	0.1	0.1	-0.66	-0.61	1	1	0	1200	1200	0
8/5/2024 13:44	43104	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 13:44	43101	SMIL_T2	5	6	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/5/2024 13:45	61306	EARL_T1	0	0	0	0	0	0	-1.09	-1.09	0	0	0	0	0	0
8/5/2024 13:45	61304	EARL_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 13:45	61303	EARL_T1	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/5/2024 13:46	53501	EVIL_T2	17	20	3	0.44	0.45	0.01	-0.01	-0.01	2	2	0	800	800	0
8/5/2024 13:46	53502	EVIL_T2	4	5	1	0.43	0.36	-0.07	0	0	0	0	0	0	0	0
8/5/2024 13:47	22901	HARW_T1	21	20	-1	0.81	0.52	-0.29	0.12	0.09	1	1	0	1200	1200	0
8/5/2024 13:47	59003	MIFF_T1	0	0	0	0	0	0	-1.55	-0.79	0	0	0	0	0	0
8/5/2024 13:47	22903	HARW_T1	16	12	-4	1.03	0.66	-0.37	0	0	0	0	0	0	0	0
8/5/2024 13:47	22905	HARW_T1	0	12	12	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 13:48	40901	JESH_T1	3	3	0	1.33	1.8	0.47	0.14	0.11	1	1	0	900	900	0
8/5/2024 13:48	22903	HARW_T1	16	12	-4	1.03	0.66	-0.37	0	0	0	0	0	0	0	0
8/5/2024 13:48	40902	JESH_T1	3	8	5	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
8/5/2024 13:48	22905	HARW_T1	0	12	12	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 13:48	22901	HARW_T1	21	20	-1	0.81	0.52	-0.29	0.12	0.09	1	1	0	1200	1200	0
8/5/2024 13:49	58402	MORO_T1	7	0	-7	0.47	0	-0.47	0	0	0	0	0	0	0	0
8/5/2024 13:49	57702	PAXT_T1	0	0	0	0	0	0	0.01	0.08	0	0	0	0	0	0
8/5/2024 13:49	58401	MORO_T1	1	1	0	0.2	0	-0.2	-0.75	-0.71	2	2	0	1500	1500	0
8/5/2024 13:50	53502	EVIL_T2	4	5	1	0.43	0.36	-0.07	0	0	0	0	0	0	0	0
8/5/2024 13:50	53501	EVIL_T2	17	20	3	0.44	0.45	0.01	-0.01	-0.01	2	2	0	800	800	0
8/5/2024 13:51	43104	SMIL_T2	0	1	1	0	0.1	0.1	-0.21	-0.21	1	1	0	300	300	0
8/5/2024 13:51	43101	SMIL_T2	5	2	-3	0.46	0.9	0.44	0	0	0	0	0	0	0	0
8/5/2024 13:51	65604	QVIL_T2	6	16	10	0.53	0.38	-0.15	1.28	1.25	0	0	0	0	0	0
8/5/2024 13:51	67002	STHI_T2	0	0	0	0	0	0	1.09	1.12	1	1	0	600	600	0
8/5/2024 13:51	43108	SMIL_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/5/2024 13:51	43103	SMIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 13:52	65604	QVIL_T2	6	16	10	0.53	0.38	-0.15	1.28	1.25	0	0	0	0	0	0
8/5/2024 13:52	43101	SMIL_T2	5	2	-3	0.46	0.9	0.44	0	0	0	0	0	0	0	0
8/5/2024 13:52	43103	SMIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 13:52	47104	MARL_T1	0	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0
8/5/2024 13:52	58401	MORO_T1	1	1	0	0.2	0	-0.2	-0.71	-0.71	2	2	0	1500	1500	0
8/5/2024 13:52	55101	WERT_T1	28	70	42	0.58	0.42	-0.16	-1.17	-1.44	4	4	0	3300	3300	0
8/5/2024 13:52	43108	SMIL_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
8/5/2024 13:52	43104	SMIL_T2	0	1	1	0	0.1	0.1	-0.21	-0.19	1	1	0	300	300	0
8/5/2024 13:52	47101	MARL_T1	53	75	22	0.66	0.72	0.06	0	0	0	0	0	0	0	0
8/5/2024 13:52	58402	MORO_T1	7	0	-7	0.47	0	-0.47	0	0	0	0	0	0	0	0
8/5/2024 13:52	40101	HUNT_T2	60	138	78	0.47	0.43	-0.04	-0.88	-0.87	0	0	0	0	0	0
8/5/2024 13:52	55103	WERT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 13:55	43101	SMIL_T2	5	2	-3	0.46	0.9	0.44	0	0	0	0	0	0	0	0
8/5/2024 13:55	43103	SMIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 13:55	43104	SMIL_T2	0	1	1	0	0.1	0.1	-0.21	-0.19	1	1	0	300	300	0
8/5/2024 13:55	43108	SMIL_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
8/5/2024 13:55	46005	BERW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/5/2024 13:55	46001	BERW_T1	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
8/5/2024 13:56	45501	DERR_T2	28	38	10	0.81	0.82	0.01	1.4	1.39	2	2	0	1800	1800	0
8/5/2024 13:56	43103	SMIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 13:56	43101	SMIL_T2	5	2	-3	0.46	0.9	0.44	0	0	0	0	0	0	0	0
8/5/2024 13:56	45502	DERR_T2	120	128	8	0.51	0.56	0.05	0	0	0	0	0	0	0	0
8/5/2024 13:56	43104	SMIL_T2	0	1	1	0	0.1	0.1	-0.21	-0.19	1	1	0	300	300	0
8/5/2024 13:56	43108	SMIL_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
8/5/2024 13:57	51602	DUKE_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 13:57	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/5/2024 13:59	53501	EVIL_T2	17	20	3	0.44	0.45	0.01	-0.01	-0.01	2	2	0	800	800	0
8/5/2024 13:59	53502	EVIL_T2	4	5	1	0.43	0.36	-0.07	0	0	0	0	0	0	0	0
8/5/2024 14:00	53501	EVIL_T2	17	30	13	0.45	0.38	-0.07	-0.01	-0.01	2	2	0	800	800	0
8/5/2024 14:00	63602	LETO_T1	1	1	0	1	0.1	-0.9	0.31	0.08	1	1	0	600	600	0
8/5/2024 14:00	45501	DERR_T2	33	31	-2	0.81	0.77	-0.04	1.4	1.39	2	2	0	1800	1800	0
8/5/2024 14:00	53502	EVIL_T2	5	6	1	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
8/5/2024 14:00	63601	LETO_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/5/2024 14:00	45502	DERR_T2	124	104	-20	0.67	0.53	-0.14	0.26	0.31	1	1	0	300	300	0
8/5/2024 14:01	51004	NHAR_T1	3	15	12	2.67	1.36	-1.31	-1.65	-1.69	0	0	0	0	0	0
8/5/2024 14:03	44203	POIN_T2	13	13	0	1.45	0.66	-0.79	-0.16	0.05	3	3	0	3300	3300	0
8/5/2024 14:03	40101	HUNT_T2	91	144	53	0.44	0.47	0.03	-1.77	-1.74	0	0	0	0	0	0
8/5/2024 14:04	48302	ORWI_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
8/5/2024 14:06	44202	POIN_T2	0	0	0	0	0	0	-0.54	-0.53	2	2	0	1800	1800	0
8/5/2024 14:06	43104	SMIL_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 14:06	43108	SMIL_T2	2	2	0	0.15	0.1	-0.05	-0.61	-0.63	1	1	0	1200	1200	0
8/5/2024 14:06	44203	POIN_T2	13	13	0	1.45	0.66	-0.79	0	0	0	0	0	0	0	0
8/5/2024 14:06	58402	MORO_T1	0	0	0	0	0	0	0.01	0.09	3	3	0	2400	2400	0
8/5/2024 14:06	43101	SMIL_T2	2	1	-1	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
8/5/2024 14:06	58401	MORO_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/5/2024 14:06	43103	SMIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 14:07	41903	REED_T1	6	4	-2	1.72	0.4	-1.32	0	0	0	0	0	0	0	0
8/5/2024 14:07	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 14:07	40602	PIGR_T1	5	6	1	1.06	2.1	1.04	-0.52	-0.53	1	1	0	600	600	0
8/5/2024 14:07	40601	PIGR_T1	3	2	-1	0.27	0	-0.27	0	0	0	0	0	0	0	0
8/5/2024 14:07	41902	REED_T1	39	11	-28	0.66	0.66	0	-0.13	-0.22	1	1	0	900	900	0
8/5/2024 14:07	40603	PIGR_T1	55	40	-15	1.21	0.38	-0.83	0	0	0	0	0	0	0	0
8/5/2024 14:08	67801	WLAN_T1	72	161	89	0.58	0.57	-0.01	-0.27	-0.2	0	0	0	0	0	0
8/5/2024 14:08	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 14:08	55101	WERT_T1	70	19	-51	0.6	0.3	-0.3	-1.44	-1.49	4	4	0	3300	3300	0
8/5/2024 14:08	67804	WLAN_T1	10	10	0	2.04	1.81	-0.23	0	0	0	0	0	0	0	0
8/5/2024 14:11	45501	DERR_T2	33	31	-2	0.81	0.77	-0.04	1.39	1.34	2	2	0	1800	1800	0
8/5/2024 14:11	45502	DERR_T2	124	104	-20	0.67	0.53	-0.14	0	0	0	0	0	0	0	0
8/5/2024 14:12	46206	DANV_T2	90	110	20	0.92	0.72	-0.2	0	0	0	0	0	0	0	0
8/5/2024 14:12	46203	DANV_T2	2	1	-1	0.1	0	-0.1	-4.1	-3.95	0	0	0	0	0	0
8/5/2024 14:12	46205	DANV_T2	2	2	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/5/2024 14:12	46204	DANV_T2	92	124	32	0.44	0.56	0.12	0	0	0	0	0	0	0	0
8/5/2024 14:13	46203	DANV_T2	2	1	-1	0.1	0	-0.1	-2.05	-1.97	0	0	0	0	0	0
8/5/2024 14:13	46204	DANV_T2	92	124	32	0.44	0.56	0.12	0	0	0	0	0	0	0	0
8/5/2024 14:13	44802	EDAN_T2	0	0	0	0	0	0	-1.2	-1.22	0	0	0	0	0	0
8/5/2024 14:13	46206	DANV_T2	90	110	20	0.92	0.72	-0.2	0	0	0	0	0	0	0	0
8/5/2024 14:13	46205	DANV_T2	2	2	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/5/2024 14:13	44801	EDAN_T2	3	4	1	0.87	0.6	-0.27	0	0	0	0	0	0	0	0
8/5/2024 14:14	67602	WARW_T2	19	28	9	0.58	0.65	0.07	1.35	1.35	2	2	0	1500	1500	0
8/5/2024 14:15	46204	DANV_T2	124	41	-83	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
8/5/2024 14:15	46206	DANV_T2	110	77	-33	1.07	0.44	-0.63	0	0	0	0	0	0	0	0
8/5/2024 14:15	46203	DANV_T2	1	1	0	0.1	0.1	0	-6.15	-5.92	0	0	0	0	0	0
8/5/2024 14:15	46205	DANV_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
8/5/2024 14:20	58401	MORO_T1	0	1	1	0	0	0	-0.71	-0.74	2	2	0	1500	1500	0
8/5/2024 14:20	13503	MCMI_T2	2	2	0	0.4	0.6	0.2	-0.51	-0.53	0	0	0	0	0	0
8/5/2024 14:23	43101	SMIL_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
8/5/2024 14:23	43108	SMIL_T2	2	2	0	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/5/2024 14:23	43103	SMIL_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/5/2024 14:23	43104	SMIL_T2	1	0	-1	0.1	0	-0.1	-0.18	-0.14	1	1	0	300	300	0
8/5/2024 14:24	43104	SMIL_T2	1	0	-1	0.1	0	-0.1	-0.18	-0.14	1	1	0	300	300	0
8/5/2024 14:24	43101	SMIL_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
8/5/2024 14:24	43103	SMIL_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/5/2024 14:24	43108	SMIL_T2	2	2	0	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/5/2024 14:30	40902	JESH_T1	3	3	0	0.4	0.9	0.5	-0.66	-0.73	3	3	0	1800	1800	0
8/5/2024 14:30	40901	JESH_T1	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
8/5/2024 14:31	52002	LING_T2	11	27	16	0.52	0.27	-0.25	0	0	0	0	0	0	0	0
8/5/2024 14:31	63801	HEMP_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/5/2024 14:31	52004	LING_T2	2	2	0	4.25	4.3	0.05	1.37	1.34	0	0	0	0	0	0
8/5/2024 14:31	63804	HEMP_T1	1	1	0	7.4	7.3	-0.1	-0.55	-0.69	0	0	0	0	0	0
8/5/2024 14:31	52006	LING_T2	3	7	4	0.27	0.53	0.26	0	0	0	0	0	0	0	0
8/5/2024 14:32	64305	LINC_T1	1	2	1	1.5	0.65	-0.85	-0.52	-0.43	0	0	0	0	0	0
8/5/2024 14:32	20601	GRWO_T2	500	420	-80	1.52	1.31	-0.21	0.91	0.92	1	1	0	1200	1200	0
8/5/2024 14:34	40101	HUNT_T2	98	210	112	0.47	0.47	0	-0.82	-0.85	0	0	0	0	0	0
8/5/2024 14:34	58202	NEWV_T1	0	0	0	0	0	0	0.26	0.41	0	0	0	0	0	0
8/5/2024 14:34	58201	NEWV_T1	3	24	21	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
8/5/2024 14:37	43108	SMIL_T2	2	3	1	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/5/2024 14:37	58202	NEWV_T1	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
8/5/2024 14:37	43101	SMIL_T2	1	1	0	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
8/5/2024 14:37	58201	NEWV_T1	3	24	21	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
8/5/2024 14:37	43104	SMIL_T2	0	0	0	0	0	0	-0.29	-0.32	2	2	0	600	600	0
8/5/2024 14:38	64101	REFR_T1	15	12	-3	1.75	1.57	-0.18	0.19	0.2	0	0	0	0	0	0
8/5/2024 14:39	57104	SPHI_T2	0	0	0	0	0	0	-1.79	-1.7	1	1	0	900	900	0
8/5/2024 14:39	64101	REFR_T1	15	12	-3	1.75	1.57	-0.18	0.19	0.2	0	0	0	0	0	0
8/5/2024 14:40	42701	AUGU_T1	16	47	31	0.39	0.44	0.05	0	0	2	2	0	1800	1800	0
8/5/2024 14:41	46203	DANV_T2	0	4	4	0	0.1	0.1	-1.99	-1.97	0	0	0	0	0	0
8/5/2024 14:41	46204	DANV_T2	41	26	-15	0.56	0.43	-0.13	0	0	0	0	0	0	0	0
8/5/2024 14:41	46206	DANV_T2	76	16	-60	0.73	1.05	0.32	0	0	0	0	0	0	0	0
8/5/2024 14:42	46204	DANV_T2	41	26	-15	0.56	0.43	-0.13	0	0	0	0	0	0	0	0
8/5/2024 14:42	46203	DANV_T2	0	4	4	0	0.1	0.1	-1.99	-1.97	0	0	0	0	0	0
8/5/2024 14:42	46206	DANV_T2	76	16	-60	0.73	1.05	0.32	0	0	0	0	0	0	0	0
8/5/2024 14:43	53802	MBRG_T2	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
8/5/2024 14:43	63802	HEMP_T1	0	0	0	0	0	0	0.29	0.38	0	0	0	0	0	0
8/5/2024 14:43	63804	HEMP_T1	1	1	0	7.4	7.3	-0.1	0	0	0	0	0	0	0	0
8/5/2024 14:43	63801	HEMP_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/5/2024 14:44	63501	HEID_TBK1-2	49	49	0	1.93	1.78	-0.15	1.13	1.18	2	2	0	1800	1800	0
8/5/2024 14:45	61301	EARL_T1	0	0	0	0	0	0	-0.8	-0.83	2	2	0	1800	1800	0
8/5/2024 14:45	46204	DANV_T2	26	19	-7	0.46	0.18	-0.28	0	0	0	0	0	0	0	0
8/5/2024 14:45	61303	EARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/5/2024 14:45	46203	DANV_T2	1	5	4	0.1	0.1	0	-1.99	-1.97	0	0	0	0	0	0
8/5/2024 14:45	46206	DANV_T2	15	11	-4	0.44	0.92	0.48	0	0	0	0	0	0	0	0
8/5/2024 14:52	47401	PENS_T1	6	8	2	0.53	0.34	-0.19	0.43	0.53	0	0	0	0	0	0
8/5/2024 14:52	44201	POIN_T1	0	0	0	0	0	0	-1.29	-1.32	2	2	0	2100	2100	0
8/5/2024 14:52	47402	PENS_T1	2	2	0	0.85	0	-0.85	0	0	0	0	0	0	0	0
8/5/2024 14:52	47403	PENS_T1	1	2	1	0.2	1.4	1.2	0	0	0	0	0	0	0	0
8/5/2024 14:53	43101	SMIL_T2	1	3	2	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/5/2024 14:53	43108	SMIL_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
8/5/2024 14:53	43102	SMIL_T2	0	5	5	0	0	0	0.15	0.31	1	1	0	600	600	0
8/5/2024 14:54	43102	SMIL_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 14:54	43101	SMIL_T2	1	3	2	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/5/2024 14:54	43108	SMIL_T2	0	6	6	0	0.2	0.2	-0.58	-0.57	1	1	0	1200	1200	0
8/5/2024 14:55	64101	REFR_T1	12	12	0	1.53	2.25	0.72	0.2	0.27	0	0	0	0	0	0
8/5/2024 14:55	42701	AUGU_T1	46	48	2	0.51	0.42	-0.09	0	0	2	2	0	1800	1800	0
8/5/2024 14:55	45502	DERR_T2	78	11	-67	0.48	0.21	-0.27	0	0	0	0	0	0	0	0
8/5/2024 14:55	45501	DERR_T2	18	19	1	0.64	0.54	-0.1	1.35	1.34	2	2	0	1800	1800	0
8/5/2024 14:57	44302	BEAV_T2	19	32	13	0.54	0.43	-0.11	0	0	0	0	0	0	0	0
8/5/2024 14:58	20401	ASHF_T2	10	20	10	0.97	1.1	0.13	0	0	0	0	0	0	0	0
8/5/2024 14:58	20403	ASHF_T2	32	83	51	0.53	0.55	0.02	0.11	1.14	0	0	0	0	0	0
8/5/2024 14:58	20402	ASHF_T2	12	19	7	1.11	0.72	-0.39	0	0	0	0	0	0	0	0
8/5/2024 14:59	45502	DERR_T2	78	11	-67	0.48	0.21	-0.27	0	0	0	0	0	0	0	0
8/5/2024 14:59	45501	DERR_T2	18	19	1	0.64	0.54	-0.1	1.35	1.34	2	2	0	1800	1800	0
8/5/2024 15:00	45501	DERR_T2	16	24	8	0.61	0.72	0.11	1.35	1.34	2	2	0	1800	1800	0
8/5/2024 15:00	63501	HEID_TBK1-2	47	49	2	1.81	2.27	0.46	0.59	0.64	1	1	0	900	900	0
8/5/2024 15:00	45502	DERR_T2	9	23	14	0.29	0.48	0.19	0	0	0	0	0	0	0	0
8/5/2024 15:02	63501	HEID_TBK1-2	47	49	2	1.81	2.27	0.46	0.59	0.64	1	1	0	900	900	0
8/5/2024 15:03	63602	LETO_T1	0	0	0	0	0	0	0.29	0.38	1	1	0	600	600	0
8/5/2024 15:11	45501	DERR_T2	16	24	8	0.61	0.72	0.11	1.34	1.36	2	2	0	1800	1800	0
8/5/2024 15:11	64101	REFR_T1	11	14	3	2.07	2.18	0.11	0.27	0.26	0	0	0	0	0	0
8/5/2024 15:11	45502	DERR_T2	9	23	14	0.29	0.48	0.19	0	0	0	0	0	0	0	0
8/5/2024 15:12	52403	GRPA_T2	25	61	36	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
8/5/2024 15:12	52402	GRPA_T2	38	94	56	0.5	0.53	0.03	0	0	0	0	0	0	0	0
8/5/2024 15:12	52404	GRPA_T2	2	0	-2	1.2	0	-1.2	0.13	0.14	0	0	0	0	0	0
8/5/2024 15:12	52401	GRPA_T2	10	12	2	0.8	0.42	-0.38	0	0	0	0	0	0	0	0
8/5/2024 15:14	46204	DANV_T2	16	34	18	0.43	0.21	-0.22	0	0	0	0	0	0	0	0
8/5/2024 15:14	46206	DANV_T2	5	20	15	0.96	0.66	-0.3	0	0	0	0	0	0	0	0
8/5/2024 15:14	46203	DANV_T2	4	7	3	0.1	0.45	0.35	-1.93	-1.89	0	0	0	0	0	0
8/5/2024 15:15	45502	DERR_T2	10	32	22	0.44	0.48	0.04	0	0	0	0	0	0	0	0
8/5/2024 15:15	45501	DERR_T2	19	34	15	0.67	0.71	0.04	1.34	1.36	2	2	0	1800	1800	0
8/5/2024 15:18	40603	PIGR_T1	11	41	30	0.46	0.59	0.13	0	0	0	0	0	0	0	0
8/5/2024 15:18	40602	PIGR_T1	1	9	8	2	0.76	-1.24	-0.47	-0.44	1	1	0	600	600	0
8/5/2024 15:18	40601	PIGR_T1	1	3	2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/5/2024 15:19	53501	EVIL_T2	267	267	0	0.55	0.5	-0.05	-0.01	-0.01	4	4	0	2300	2300	0
8/5/2024 15:19	53502	EVIL_T2	19	18	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/5/2024 15:21	54601	SUMM_T2	2	3	1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
8/5/2024 15:21	54603	SUMM_T2	8	17	9	0.4	0.47	0.07	0	0	0	0	0	0	0	0
8/5/2024 15:21	54602	SUMM_T2	20	40	20	0.94	0.54	-0.4	-1.67	-1.67	1	1	0	600	600	0
8/5/2024 15:22	64101	REFR_T1	11	15	4	2.18	2.03	-0.15	0.26	0.25	0	0	0	0	0	0
8/5/2024 15:23	26402	INOR_T1	135	109	-26	0.77	0.6	-0.17	-1.13	-1.22	1	1	0	600	600	0
8/5/2024 15:23	26401	INOR_T1	33	69	36	0.84	0.54	-0.3	0	0	0	0	0	0	0	0
8/5/2024 15:26	46206	DANV_T2	11	19	8	0.59	0.64	0.05	0	0	0	0	0	0	0	0
8/5/2024 15:26	49804	UNIV_T1	2	4	2	0.7	0.9	0.2	0	0	0	0	0	0	0	0
8/5/2024 15:26	46204	DANV_T2	16	40	24	0.18	0.28	0.1	0	0	0	0	0	0	0	0
8/5/2024 15:26	49803	UNIV_T1	2	4	2	3.6	2.4	-1.2	-1.36	-1.39	0	0	0	0	0	0
8/5/2024 15:26	46203	DANV_T2	2	7	5	0.55	0.33	-0.22	-1.89	-1.91	0	0	0	0	0	0
8/5/2024 15:28	51003	NHAR_T1	1	0	-1	0.1	0	-0.1	-1.98	-2.21	1	1	0	1200	1200	0
8/5/2024 15:28	51004	NHAR_T1	19	20	1	1.67	1.48	-0.19	0	0	0	0	0	0	0	0
8/5/2024 15:29	53501	EVIL_T2	267	267	0	0.55	0.5	-0.05	-0.01	-0.01	4	4	0	2300	2300	0
8/5/2024 15:29	53502	EVIL_T2	19	18	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
8/5/2024 15:30	54503	ENOL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/5/2024 15:30	54502	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 15:30	54506	ENOL_T2	0	0	0	0	0	0	0.76	0.79	1	0	-1	600	0	-600
8/5/2024 15:31	40901	JESH_T1	1	1	0	1.8	1.4	-0.4	0	0	0	0	0	0	0	0
8/5/2024 15:31	40902	JESH_T1	0	0	0	0	0	0	-1.5	-1.49	3	3	0	1800	1800	0
8/5/2024 15:34	64203	KINZ_T1	16	10	-6	0.83	0.75	-0.08	0.7	0.59	3	3	0	2100	2100	0
8/5/2024 15:34	58401	MORO_T1	0	0	0	0	0	0	-0.67	-0.67	2	2	0	1500	1500	0
8/5/2024 15:34	64202	KINZ_T1	21	11	-10	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
8/5/2024 15:34	64201	KINZ_T1	105	23	-82	0.32	0	-0.32	0	0	0	0	0	0	0	0
8/5/2024 15:34	64204	KINZ_T1	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
8/5/2024 15:36	59101	WALK_T2	3	21	18	0.67	0.69	0.02	1.36	1.41	2	2	0	1200	1200	0
8/5/2024 15:37	65601	QVIL_T2	5	6	1	0.16	0.25	0.09	0	0	0	0	0	0	0	0
8/5/2024 15:37	65604	QVIL_T2	10	15	5	0.26	0.57	0.31	1.19	0.61	0	0	0	0	0	0
8/5/2024 15:37	65603	QVIL_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/5/2024 15:38	64101	REFR_T1	14	17	3	2.03	2.54	0.51	0.25	0.28	0	0	0	0	0	0
8/5/2024 15:38	67103	SPRI_T1	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
8/5/2024 15:39	45302	WBER_T2	2	2	0	0.2	0.25	0.05	1.64	1.63	0	0	0	0	0	0
8/5/2024 15:40	45302	WBER_T2	2	2	0	0.2	0.25	0.05	1.64	1.63	0	0	0	0	0	0
8/5/2024 15:41	46501	LOHA_T1	26	35	9	0.71	0.39	-0.32	0	0	0	0	0	0	0	0
8/5/2024 15:41	46503	LOHA_T1	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
8/5/2024 15:49	41001	LAUR_T2	62	54	-8	0.76	0.68	-0.08	0	0	0	0	0	0	0	0
8/5/2024 15:49	41002	LAUR_T2	4	5	1	1	1.1	0.1	0.18	0.18	0	0	0	0	0	0
8/5/2024 15:50	58402	MORO_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 15:50	58401	MORO_T1	0	0	0	0	0	0	-0.67	-0.68	2	2	0	1500	1500	0
8/5/2024 15:51	54601	SUMM_T2	3	11	8	0.63	0.47	-0.16	-1.77	-1.76	3	3	0	3000	3000	0
8/5/2024 15:51	54603	SUMM_T2	14	33	19	0.49	0.54	0.05	0	0	0	0	0	0	0	0
8/5/2024 15:51	54602	SUMM_T2	36	39	3	0.52	0.49	-0.03	0	0	0	0	0	0	0	0
8/5/2024 15:53	42201	SHEN_T2	0	0	0	0	0	0	0.43	0.42	1	1	0	600	600	0
8/5/2024 15:53	56504	ROCK_T2	5	9	4	0.2	0.43	0.23	0	0	0	0	0	0	0	0
8/5/2024 15:53	56503	ROCK_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/5/2024 15:53	56501	ROCK_T2	4	1	-3	0.68	0	-0.68	-1.19	-1.22	0	0	0	0	0	0
8/5/2024 15:53	27502	WEIS_T2	261	354	93	0.67	0.71	0.04	0.19	0.16	0	0	0	0	0	0
8/5/2024 15:54	56504	ROCK_T2	5	9	4	0.2	0.43	0.23	0	0	0	0	0	0	0	0
8/5/2024 15:54	56503	ROCK_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/5/2024 15:54	56501	ROCK_T2	4	1	-3	0.68	0	-0.68	-2.38	-2.43	0	0	0	0	0	0
8/5/2024 15:55	40201	BEGA_T2	17	11	-6	0.81	0.75	-0.06	0	0	0	0	0	0	0	0
8/5/2024 15:57	56504	ROCK_T2	5	9	4	0.2	0.43	0.23	0	0	0	0	0	0	0	0
8/5/2024 15:57	56503	ROCK_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/5/2024 15:57	56501	ROCK_T2	4	1	-3	0.68	0	-0.68	-1.19	-1.22	0	0	0	0	0	0
8/5/2024 15:58	46206	DANV_T2	13	78	65	0.67	0.48	-0.19	1.11	1.68	2	2	0	2100	2100	0
8/5/2024 15:58	46203	DANV_T2	4	2	-2	0.68	0.4	-0.28	0	0	0	0	0	0	0	0
8/5/2024 15:58	46204	DANV_T2	36	91	55	0.37	0.32	-0.05	0	0	0	0	0	0	0	0
8/5/2024 16:03	40101	HUNT_T2	148	213	65	0.5	0.52	0.02	-1.09	-1.07	0	0	0	0	0	0
8/5/2024 16:03	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 16:03	40901	JESH_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
8/5/2024 16:05	46903	MNTG_T2	1	3	2	0.3	0.43	0.13	0	0	0	0	0	0	0	0
8/5/2024 16:05	46902	MNTG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 16:05	46901	MNTG_T2	0	0	0	0	0	0	0.48	0.37	1	1	0	1200	1200	0
8/5/2024 16:07	64101	REFR_T1	16	15	-1	2.28	1.99	-0.29	0.29	0.28	0	0	0	0	0	0
8/5/2024 16:08	47402	PENS_T1	4	2	-2	0.63	0	-0.63	0	0	0	0	0	0	0	0
8/5/2024 16:08	47401	PENS_T1	2	30	28	0.5	0.56	0.06	1.59	1.6	0	0	0	0	0	0
8/5/2024 16:08	47403	PENS_T1	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
8/5/2024 16:09	54502	ENOL_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 16:09	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 16:09	51304	WIND_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
8/5/2024 16:09	54506	ENOL_T2	0	0	0	0	0	0	0.81	0.78	1	1	0	600	600	0
8/5/2024 16:09	47403	PENS_T1	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
8/5/2024 16:09	54501	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 16:09	47402	PENS_T1	4	2	-2	0.63	0	-0.63	0	0	0	0	0	0	0	0
8/5/2024 16:09	47401	PENS_T1	2	30	28	0.5	0.56	0.06	0.79	0.8	0	0	0	0	0	0
8/5/2024 16:11	45502	DERR_T2	12	4	-8	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
8/5/2024 16:11	47401	PENS_T1	2	30	28	0.5	0.56	0.06	1.59	1.6	0	0	0	0	0	0
8/5/2024 16:11	45501	DERR_T2	16	22	6	0.81	0.69	-0.12	1.14	1.14	2	2	0	1800	1800	0
8/5/2024 16:11	47402	PENS_T1	4	2	-2	0.63	0	-0.63	0	0	0	0	0	0	0	0
8/5/2024 16:11	47403	PENS_T1	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
8/5/2024 16:12	53501	EVIL_T2	20	8	-12	0.54	1	0.46	-0.01	-0.01	4	4	0	2300	2300	0
8/5/2024 16:12	53502	EVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 16:17	20403	ASHF_T2	50	120	70	0.65	0.69	0.04	0	0	0	0	0	0	0	0
8/5/2024 16:17	20402	ASHF_T2	75	155	80	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
8/5/2024 16:17	20401	ASHF_T2	91	99	8	0.72	0.62	-0.1	0	0	0	0	0	0	0	0
8/5/2024 16:18	46902	MNTG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 16:18	47101	MARL_T1	167	250	83	0.91	1.12	0.21	-0.29	-0.43	1	1	0	600	600	0
8/5/2024 16:18	46901	MNTG_T2	0	0	0	0	0	0	0.37	0.23	1	1	0	1200	1200	0
8/5/2024 16:18	46903	MNTG_T2	3	0	-3	0.43	0	-0.43	0.69	0.66	1	1	0	600	600	0
8/5/2024 16:19	65603	QVIL_T2	1	1	0	0.2	0	-0.2	0.39	0.27	0	0	0	0	0	0
8/5/2024 16:19	46902	MNTG_T2	0	0	0	0	0	0	0.37	0.23	1	1	0	1200	1200	0
8/5/2024 16:19	46902	MNTG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 16:19	65604	QVIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/5/2024 16:19	65601	QVIL_T2	3	20	17	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
8/5/2024 16:19	46903	MNTG_T2	3	0	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
8/5/2024 16:20	47101	MARL_T1	167	250	83	0.91	1.12	0.21	-0.29	-0.43	1	1	0	600	600	0
8/5/2024 16:20	54601	SUMM_T2	5	7	2	0.52	0.58	0.06	-1.77	-1.77	3	3	0	3000	3000	0
8/5/2024 16:20	54602	SUMM_T2	19	51	32	0.49	0.58	0.09	0	0	0	0	0	0	0	0
8/5/2024 16:20	54603	SUMM_T2	21	28	7	0.47	0.46	-0.01	0	0	0	0	0	0	0	0
8/5/2024 16:20	51401	LYKE_T1	0	0	0	0	0	0	0.55	0.57	0	0	0	0	0	0
8/5/2024 16:21	47101	MARL_T1	167	250	83	0.91	1.12	0.21	-0.29	-0.43	1	1	0	600	600	0
8/5/2024 16:24	43108	SMIL_T2	21	31	10	0.57	0.41	-0.16	0	0	0	0	0	0	0	0
8/5/2024 16:24	43103	SMIL_T2	1	5	4	0.2	0.66	0.46	0	0	0	0	0	0	0	0
8/5/2024 16:24	43101	SMIL_T2	9	30	21	0.5	0.77	0.27	-0.41	-0.44	1	1	0	300	300	0
8/5/2024 16:24	43104	SMIL_T2	7	5	-2	0.51	0.25	-0.26	0	0	0	0	0	0	0	0
8/5/2024 16:25	44301	BEAV_T2	6	58	52	0.5	0.32	-0.18	-0.25	0.03	1	1	0	600	600	0
8/5/2024 16:25	46203	DANV_T2	1	10	9	0.4	0.43	0.03	0	0	0	0	0	0	0	0
8/5/2024 16:25	46204	DANV_T2	91	126	35	0.46	0.51	0.05	0	0	0	0	0	0	0	0
8/5/2024 16:25	46206	DANV_T2	77	94	17	0.66	0.83	0.17	1.83	1.89	2	2	0	2100	2100	0
8/5/2024 16:25	59202	THOM_T1	2	4	2	1.5	0.8	-0.7	0	0	0	0	0	0	0	0
8/5/2024 16:25	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 16:36	48602	POCA_T1	0	0	0	0	0	0	0.29	0.15	1	1	0	1200	1200	0
8/5/2024 16:36	58203	NEWV_T2	141	160	19	2.3	2.15	-0.15	-0.69	-0.67	0	0	0	0	0	0
8/5/2024 16:36	45802	HEGI_T2	26	12	-14	0.51	0.52	0.01	0.6	0.45	2	2	0	1200	1200	0
8/5/2024 16:37	65902	SAKR_T2	4	0	-4	0.48	0	-0.48	-0.41	-0.45	2	2	0	1200	1200	0
8/5/2024 16:37	65901	SAKR_T2	6	2	-4	1.12	5.6	4.48	0	0	0	0	0	0	0	0
8/5/2024 16:40	46001	BERW_T1	0	1	1	0	1	1	0.4	0.37	0	0	0	0	0	0
8/5/2024 16:48	22901	HARW_T1	6	6	0	0.27	0.2	-0.07	0.06	-0.11	1	1	0	1200	1200	0
8/5/2024 16:48	22905	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 16:50	54501	ENOL_T2	4	0	-4	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/5/2024 16:50	54503	ENOL_T2	0	2	2	0	0	0	-2.19	-2.2	1	1	0	600	600	0
8/5/2024 16:50	54502	ENOL_T2	4	6	2	0.3	0.43	0.13	0	0	0	0	0	0	0	0
8/5/2024 16:52	65601	QVIL_T2	20	19	-1	0.42	0.33	-0.09	0.63	0.54	1	1	0	900	900	0
8/5/2024 16:52	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 16:52	65603	QVIL_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/5/2024 17:03	64201	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/5/2024 17:03	64203	KINZ_T1	0	0	0	0	0	0	-0.58	-0.75	3	3	0	2100	2100	0
8/5/2024 17:09	45302	WBER_T2	3	16	13	0.23	0.32	0.09	3.5	3.4	0	0	0	0	0	0
8/5/2024 17:09	45301	WBER_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/5/2024 17:11	60701	BREC_T1	6	6	0	1.27	1	-0.27	-0.12	-0.13	2	2	0	1200	1200	0
8/5/2024 17:12	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 17:12	67605	WARW_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
8/5/2024 17:13	60701	BREC_T1	6	6	0	1.27	1	-0.27	-0.12	-0.13	2	2	0	1200	1200	0
8/5/2024 17:15	52202	DEVO_T2	15	20	5	0.86	0.49	-0.37	-1.51	-1.53	0	0	0	0	0	0
8/5/2024 17:15	61703	ELIZ_T1	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
8/5/2024 17:15	52204	DEVO_T2	11	11	0	1.11	1.9	0.79	0	0	0	0	0	0	0	0
8/5/2024 17:15	61701	ELIZ_T1	1	1	0	1.3	1.3	0	1.39	1.58	0	0	0	0	0	0
8/5/2024 17:16	61701	ELIZ_T1	1	1	0	1.3	1.3	0	1.39	1.58	0	0	0	0	0	0
8/5/2024 17:16	61703	ELIZ_T1	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
8/5/2024 17:17	61703	ELIZ_T1	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
8/5/2024 17:17	61701	ELIZ_T1	1	1	0	1.3	1.3	0	1.39	1.58	0	0	0	0	0	0
8/5/2024 17:18	61502	EPET_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/5/2024 17:18	61505	EPET_T1	0	0	0	0	0	0	0.97	0.89	0	0	0	0	0	0
8/5/2024 17:19	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 17:19	63401	HONY_T1	0	0	0	0	0	0	0.65	0.68	1	1	0	600	600	0
8/5/2024 17:19	61402	SLIT_T1	5	4	-1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
8/5/2024 17:19	63404	HONY_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/5/2024 17:21	41902	REED_T1	49	24	-25	0.63	0.55	-0.08	0	0	0	0	0	0	0	0
8/5/2024 17:21	41901	REED_T1	10	12	2	0.42	0.58	0.16	0	0	0	0	0	0	0	0
8/5/2024 17:21	41903	REED_T1	0	3	3	0	0.2	0.2	0.51	0.56	1	1	0	1200	1200	0
8/5/2024 17:24	23001	SAJO_T1	0	0	0	0	0	0	-0.56	-0.53	0	0	0	0	0	0
8/5/2024 17:26	51604	DUKE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 17:26	51602	DUKE_T2	0	0	0	0	0	0	0	0	0	1	1	0	1200	1200
8/5/2024 17:27	51604	DUKE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 17:27	51602	DUKE_T2	0	0	0	0	0	0	0	0	0	1	1	0	1200	1200
8/5/2024 17:28	61502	EPET_T1	1	0	-1	0.2	0	-0.2	-1.39	-1.5	0	0	0	0	0	0
8/5/2024 17:30	63304	GREE_T1	0	0	0	0	0	0	-2.87	-2.96	1	1	0	1200	1200	0
8/5/2024 17:31	44802	EDAN_T2	0	0	0	0	0	0	-1.19	-1.24	0	0	0	0	0	0
8/5/2024 17:31	44801	EDAN_T2	1	2	1	1.8	0.8	-1	0	0	0	0	0	0	0	0
8/5/2024 17:32	44802	EDAN_T2	0	0	0	0	0	0	-1.19	-1.24	0	0	0	0	0	0
8/5/2024 17:32	44801	EDAN_T2	1	2	1	1.8	0.8	-1	0	0	0	0	0	0	0	0
8/5/2024 17:35	63304	GREE_T1	0	0	0	0	0	0	-2.87	-2.96	1	1	0	1200	1200	0
8/5/2024 17:41	61703	ELIZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/5/2024 17:41	61701	ELIZ_T1	1	2	1	1.3	1.3	0	1.39	1.44	0	0	0	0	0	0
8/5/2024 17:43	67804	WLAN_T1	10	10	0	2.99	2.33	-0.66	0	0	0	0	0	0	0	0
8/5/2024 17:43	15603	NSTR_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
8/5/2024 17:43	67801	WLAN_T1	3	7	4	0.2	0.6	0.4	0	0	0	0	0	0	0	0
8/5/2024 17:43	15601	NSTR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 17:43	15602	NSTR_T2	2	3	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
8/5/2024 17:43	67805	WLAN_T1	0	0	0	0	0	0	-0.52	-0.45	0	0	0	0	0	0
8/5/2024 17:46	61304	EARL_T1	0	0	0	0	0	0	-0.16	-0.11	1	1	0	600	600	0
8/5/2024 17:46	46801	HEPB_T2	7	1	-6	0.5	0	-0.5	0.48	0.42	0	0	0	0	0	0
8/5/2024 17:46	61303	EARL_T1	6	3	-3	0.93	0	-0.93	0	0	0	0	0	0	0	0
8/5/2024 17:46	61302	EARL_T1	1	2	1	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
8/5/2024 17:47	52202	DEVO_T2	12	16	4	0.58	0.4	-0.18	-1.52	-1.55	0	0	0	0	0	0
8/5/2024 17:47	52204	DEVO_T2	8	6	-2	1.69	1.63	-0.06	0	0	0	0	0	0	0	0
8/5/2024 17:47	63602	LETO_T1	3	0	-3	0.27	0	-0.27	0.37	0.34	1	1	0	600	600	0
8/5/2024 17:48	61303	EARL_T1	6	3	-3	0.93	0	-0.93	0	0	0	0	0	0	0	0
8/5/2024 17:48	63602	LETO_T1	3	0	-3	0.27	0	-0.27	0.37	0.34	1	1	0	600	600	0
8/5/2024 17:48	61304	EARL_T1	0	0	0	0	0	0	-0.16	-0.11	1	1	0	600	600	0
8/5/2024 17:48	61302	EARL_T1	1	2	1	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
8/5/2024 17:52	44902	SCOT_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
8/5/2024 17:53	43304	WATS_T2	35	66	31	0.65	0.64	-0.01	0	0	0	0	0	0	0	0
8/5/2024 17:53	46101	MACI_T2	0	0	0	0	0	0	0.86	0.86	0	0	0	0	0	0
8/5/2024 17:53	43301	WATS_T2	0	0	0	0	0	0	0.1	0.07	1	1	0	900	900	0
8/5/2024 17:55	44301	BEAV_T2	15	20	5	0.44	0.35	-0.09	0.03	-0.01	1	1	0	600	600	0
8/5/2024 17:56	44301	BEAV_T2	15	20	5	0.44	0.35	-0.09	0.03	-0.01	1	1	0	600	600	0
8/5/2024 18:01	44703	MUNC_T2	7	4	-3	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/5/2024 18:01	44702	MUNC_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 18:02	61701	ELIZ_T1	2	2	0	0.95	1.5	0.55	1.44	1.54	0	0	0	0	0	0
8/5/2024 18:02	61703	ELIZ_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/5/2024 18:05	44703	MUNC_T2	7	4	-3	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/5/2024 18:05	44702	MUNC_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 18:07	67502	WEWI_T2	14	9	-5	0.99	0.58	-0.41	0	0	0	0	0	0	0	0
8/5/2024 18:07	67503	WEWI_T2	38	22	-16	0.56	1.04	0.48	0.32	0.27	0	0	0	0	0	0
8/5/2024 18:11	40502	CRES_T2	50	13	-37	0.37	0.15	-0.22	-0.59	-0.65	0	0	0	0	0	0
8/5/2024 18:11	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 18:12	40502	CRES_T2	50	13	-37	0.37	0.15	-0.22	-1.18	-1.29	0	0	0	0	0	0
8/5/2024 18:12	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 18:14	40502	CRES_T2	50	13	-37	0.37	0.15	-0.22	-1.18	-1.29	0	0	0	0	0	0
8/5/2024 18:14	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 18:15	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 18:15	40502	CRES_T2	9	8	-1	0.26	0.15	-0.11	-2.36	-2.59	0	0	0	0	0	0
8/5/2024 18:15	24702	FLND_T2	0	0	0	0	0	0	0.25	0.56	1	1	0	1200	1200	0
8/5/2024 18:16	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 18:16	46501	LOHA_T1	14	9	-5	1.06	1.26	0.2	0.67	0.62	1	1	0	1200	1200	0
8/5/2024 18:16	40502	CRES_T2	9	8	-1	0.26	0.15	-0.11	-0.59	-0.65	0	0	0	0	0	0
8/5/2024 18:17	46102	MACI_T1	0	0	0	0	0	0	0.93	0.89	0	0	0	0	0	0
8/5/2024 18:19	46501	LOHA_T1	14	9	-5	1.06	1.26	0.2	0.67	0.62	1	1	0	1200	1200	0
8/5/2024 18:20	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/5/2024 18:20	46501	LOHA_T1	14	9	-5	1.06	1.26	0.2	0.67	0.62	1	1	0	1200	1200	0
8/5/2024 18:22	54201	PENN_T1	3	4	1	0.67	0.78	0.11	0	0	0	0	0	0	0	0
8/5/2024 18:22	54203	PENN_T1	5	6	1	0.62	0.87	0.25	-2.27	-0.92	2	1	-1	1800	600	-1200
8/5/2024 18:25	54601	SUMM_T2	2	3	1	0.55	1.5	0.95	0	0	0	0	0	0	0	0
8/5/2024 18:25	54602	SUMM_T2	16	10	-6	0.57	0.4	-0.17	-1.71	-1.72	1	1	0	600	600	0
8/5/2024 18:25	54603	SUMM_T2	5	2	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/5/2024 18:25	60103	COCA_T2	1	9	8	0.5	0	-0.5	-0.03	-1.22	2	3	1	2100	3300	1200
8/5/2024 18:27	44203	POIN_T2	100	293	193	1.39	0.54	-0.85	-1.1	-1.01	3	3	0	3300	3300	0
8/5/2024 18:43	52202	DEVO_T2	3	5	2	0.5	0.57	0.07	-1.63	-1.62	0	0	0	0	0	0
8/5/2024 18:43	52204	DEVO_T2	6	6	0	1.53	1.28	-0.25	0	0	0	0	0	0	0	0
8/5/2024 18:47	52202	DEVO_T2	5	3	-2	0.76	0.4	-0.36	-1.63	-1.62	0	0	0	0	0	0
8/5/2024 18:47	52204	DEVO_T2	6	6	0	1.32	1.12	-0.2	0	0	0	0	0	0	0	0
8/5/2024 18:48	27302	PARR_T1	0	0	0	0	0	0	-1.13	-1.19	0	0	0	0	0	0
8/5/2024 18:51	52401	GRPA_T2	79	38	-41	1.07	0.42	-0.65	0	0	0	0	0	0	0	0
8/5/2024 18:51	52403	GRPA_T2	97	100	3	2.82	2.06	-0.76	0	0	0	0	0	0	0	0
8/5/2024 18:51	52404	GRPA_T2	2	2	0	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/5/2024 18:51	52402	GRPA_T2	49	19	-30	0.57	0.74	0.17	-0.76	-0.2	1	0	-1	600	0	-600
8/5/2024 18:56	44801	EDAN_T2	1	6	5	0.9	0.23	-0.67	-1.08	-1.08	0	0	0	0	0	0
8/5/2024 19:01	67605	WARW_T1	1	3	2	1.5	0.57	-0.93	0	0	0	0	0	0	0	0
8/5/2024 19:01	67604	WARW_T1	0	0	0	0	0	0	0.62	0.55	0	0	0	0	0	0
8/5/2024 19:09	65602	QVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/5/2024 19:09	65603	QVIL_T2	0	0	0	0	0	0	0.78	0.71	0	0	0	0	0	0
8/5/2024 19:09	65604	QVIL_T2	2	13	11	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/5/2024 19:13	61505	EPET_T1	0	0	0	0	0	0	0.74	0.74	0	0	0	0	0	0
8/5/2024 19:13	53501	EVIL_T2	4	1	-3	0.45	1	0.55	-0.01	-0.01	4	6	2	2400	4200	1800
8/5/2024 19:13	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 19:30	43402	BENT_T1	0	0	0	0	0	0	-0.72	-0.72	1	1	0	900	900	0
8/5/2024 19:38	44903	SCOT_T1	0	0	0	0	0	0	-0.11	-0.17	0	0	0	0	0	0
8/5/2024 19:38	44905	SCOT_T1	4	5	1	1.03	0.7	-0.33	0	0	0	0	0	0	0	0
8/5/2024 20:16	63501	HEID_TBK1-2	49	49	0	1.9	1.7	-0.2	0.53	0.49	1	1	0	900	900	0
8/5/2024 20:17	42302	MOWR_T2	0	0	0	0	0	0	0.87	0.86	0	0	0	0	0	0
8/5/2024 20:19	51303	WIND_T1	0	14	14	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 20:19	51305	WIND_T1	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
8/5/2024 20:23	46301	ROHR_T1	5	12	7	0.18	0.14	-0.04	0	0	0	0	0	0	0	0
8/5/2024 20:23	46302	ROHR_T1	2	2	0	1.2	1.7	0.5	0.44	0.42	0	0	0	0	0	0
8/5/2024 20:24	46302	ROHR_T1	2	2	0	1.2	1.7	0.5	0	0	0	0	0	0	0	0
8/5/2024 20:24	46301	ROHR_T1	5	12	7	0.18	0.14	-0.04	0.45	0.45	0	0	0	0	0	0
8/5/2024 20:29	46301	ROHR_T1	5	12	7	0.18	0.14	-0.04	0	0	0	0	0	0	0	0
8/5/2024 20:29	46302	ROHR_T1	2	2	0	1.2	1.7	0.5	0.44	0.42	0	0	0	0	0	0
8/5/2024 20:48	47001	HUGH_T2	19	12	-7	1.51	2.17	0.66	-0.94	-0.97	1	1	0	900	900	0
8/5/2024 20:51	47001	HUGH_T2	19	12	-7	1.51	2.17	0.66	-0.94	-0.97	1	1	0	900	900	0
8/5/2024 20:53	56501	ROCK_T2	8	44	36	0.23	0.22	-0.01	-1.54	-1.47	0	0	0	0	0	0
8/5/2024 20:54	56501	ROCK_T2	8	44	36	0.23	0.22	-0.01	-1.54	-1.47	0	0	0	0	0	0
8/5/2024 20:55	56504	ROCK_T2	0	0	0	0	0	0	-0.54	-0.58	0	0	0	0	0	0
8/5/2024 20:55	56501	ROCK_T2	8	44	36	0.23	0.22	-0.01	-1.54	-1.47	0	0	0	0	0	0
8/5/2024 21:02	56504	ROCK_T2	0	0	0	0	0	0	-0.54	-0.58	0	0	0	0	0	0
8/5/2024 21:02	56501	ROCK_T2	11	175	164	0.25	0.27	0.02	0	0	0	0	0	0	0	0
8/5/2024 21:20	65604	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 21:20	65603	QVIL_T2	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
8/5/2024 21:53	57505	LAWN_T3	0	0	0	0	0	0	0.27	0.21	0	0	0	0	0	0
8/5/2024 21:54	24102	EHAZ_T1	3	3	0	0.57	0.2	-0.37	0.28	0.33	0	0	0	0	0	0
8/5/2024 21:54	24101	EHAZ_T1	22	21	-1	1.15	0.48	-0.67	0	0	0	0	0	0	0	0
8/5/2024 21:54	24105	EHAZ_T1	4	4	0	6.45	6.38	-0.07	0	0	0	0	0	0	0	0
8/5/2024 21:57	26401	INOR_T1	1	1	0	7.2	8.1	0.9	0	0	0	0	0	0	0	0
8/5/2024 21:57	26402	INOR_T1	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
8/5/2024 22:00	63602	LETO_T1	0	0	0	0	0	0	-0.14	-0.11	1	1	0	600	600	0
8/5/2024 22:00	23401	HONE_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
8/5/2024 22:00	16402	MOPO_T1	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
8/5/2024 22:01	51304	WIND_T2	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
8/5/2024 22:01	15604	NSTR_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
8/5/2024 22:01	47401	PENS_T1	0	0	0	0	0	0	0.46	0.4	0	0	0	0	0	0
8/5/2024 22:01	47402	PENS_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/5/2024 22:04	64903	MILL_T2	4	24	20	0.15	0.28	0.13	0	0	0	0	0	0	0	0
8/5/2024 22:04	64202	KINZ_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/5/2024 22:04	64204	KINZ_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
8/5/2024 22:04	64201	KINZ_T1	1	0	-1	0.3	0	-0.3	-0.86	-0.33	4	3	-1	2100	1500	-600
8/5/2024 22:04	64902	MILL_T2	0	0	0	0	0	0	-0.57	-0.58	1	1	0	900	900	0
8/5/2024 22:05	61701	ELIZ_T1	1	1	0	4	3.5	-0.5	0.91	0.94	0	0	0	0	0	0
8/5/2024 22:05	29402	BELT_T1	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
8/5/2024 22:05	65604	QVIL_T2	0	0	0	0	0	0	0.86	0.83	0	0	0	0	0	0
8/5/2024 22:05	64201	KINZ_T1	1	0	-1	0.3	0	-0.3	-0.86	-0.33	4	3	-1	2100	1500	-600
8/5/2024 22:05	40101	HUNT_T2	17	5	-12	0.44	0.45	0.01	2.34	2.31	0	0	0	0	0	0
8/5/2024 22:05	60701	BREC_T1	0	0	0	0	0	0	0.01	-0.09	1	1	0	600	600	0
8/5/2024 22:05	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	1	1	0	900	900	0
8/5/2024 22:05	64204	KINZ_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
8/5/2024 22:05	15603	NSTR_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
8/5/2024 22:05	64202	KINZ_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/5/2024 22:05	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 22:06	63403	HONY_T2	0	0	0	0	0	0	-1	-0.97	0	0	0	0	0	0
8/5/2024 22:06	15604	NSTR_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
8/5/2024 22:06	42903	MIDD_T2	4	2	-2	0.63	0.7	0.07	0	0	0	0	0	0	0	0
8/5/2024 22:06	52202	DEVO_T2	1	5	4	0.7	0.32	-0.38	-0.7	-0.7	0	0	0	0	0	0
8/5/2024 22:06	51401	LYKE_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
8/5/2024 22:06	52204	DEVO_T2	4	6	2	1	1.48	0.48	0	0	0	0	0	0	0	0
8/5/2024 22:06	43402	BENT_T1	0	0	0	0	0	0	-0.8	-0.83	1	1	0	900	900	0
8/5/2024 22:06	42902	MIDD_T2	5	1	-4	0.56	0	-0.56	-0.68	-0.7	1	1	0	600	600	0
8/5/2024 22:06	42901	MIDD_T2	3	3	0	0.63	0.3	-0.33	0	0	0	0	0	0	0	0
8/5/2024 22:06	63402	HONY_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:07	53502	EVIL_T2	0	0	0	0	0	0	-0.77	-0.78	3	3	0	2100	2100	0
8/5/2024 22:07	53601	DALM_T2	1	0	-1	0.2	0	-0.2	-0.02	0.15	1	1	0	600	600	0
8/5/2024 22:07	65802	RTWN_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
8/5/2024 22:07	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:07	29402	BELT_T1	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
8/5/2024 22:07	53501	EVIL_T2	1	2	1	1.1	0.75	-0.35	0	0	0	0	0	0	0	0
8/5/2024 22:07	54201	PENN_T1	12	8	-4	0.67	0.75	0.08	-1.74	-1.77	0	0	0	0	0	0
8/5/2024 22:07	13503	MCMI_T2	8	18	10	0.1	0.14	0.04	-0.57	-0.61	0	0	0	0	0	0
8/5/2024 22:07	54203	PENN_T1	5	5	0	0.92	0.82	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:08	57601	RUTH_T2	0	0	0	0	0	0	-0.79	-0.8	1	1	0	900	900	0
8/5/2024 22:08	27302	PARR_T1	0	0	0	0	0	0	-0.67	-0.72	0	0	0	0	0	0
8/5/2024 22:08	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:08	45303	WBER_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/5/2024 22:08	61102	BERK_T5	0	0	0	0	0	0	1.68	2.28	3	3	0	900	900	0
8/5/2024 22:08	45302	WBER_T2	0	0	0	0	0	0	1.33	1.36	0	0	0	0	0	0
8/5/2024 22:08	57702	PAXT_T1	0	0	0	0	0	0	-0.2	-0.29	0	0	0	0	0	0
8/5/2024 22:08	29402	BELT_T1	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
8/5/2024 22:08	46206	DANV_T2	2	2	0	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
8/5/2024 22:08	47402	PENS_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/5/2024 22:08	60803	BUCK_T1	6	15	9	0.3	0.45	0.15	0	0	0	0	0	0	0	0
8/5/2024 22:08	46203	DANV_T2	6	8	2	0.58	0.63	0.05	-1.12	-0.24	0	0	0	0	0	0
8/5/2024 22:08	47401	PENS_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
8/5/2024 22:08	60801	BUCK_T1	0	6	6	0	0.1	0.1	0.11	0.06	0	0	0	0	0	0
8/5/2024 22:08	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:08	52004	LING_T2	2	2	0	5.4	5.3	-0.1	0.2	0.14	0	0	0	0	0	0
8/5/2024 22:08	45501	DERR_T2	2	3	1	0.7	1.1	0.4	0.1	0.07	2	2	0	1800	1800	0
8/5/2024 22:08	13503	MCMI_T2	8	18	10	0.1	0.14	0.04	-0.57	-0.61	0	0	0	0	0	0
8/5/2024 22:09	52202	DEVO_T2	1	5	4	0.7	0.32	-0.38	-0.7	-0.73	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/5/2024 22:09	52204	DEVO_T2	4	6	2	1	1.48	0.48	0	0	0	0	0	0	0	0
8/5/2024 22:09	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/5/2024 22:09	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:10	41901	REED_T1	9	9	0	1.27	0.39	-0.88	0	0	0	0	0	0	0	0
8/5/2024 22:10	61303	EARL_T1	1	2	1	1.3	0.2	-1.1	0	0	0	0	0	0	0	0
8/5/2024 22:10	46001	BERW_T1	0	0	0	0	0	0	1.17	1.12	0	0	0	0	0	0
8/5/2024 22:10	52204	DEVO_T2	4	6	2	1	1.48	0.48	0	0	0	0	0	0	0	0
8/5/2024 22:10	40201	BEGA_T2	1	0	-1	2.1	0	-2.1	0	0	0	0	0	0	0	0
8/5/2024 22:10	54602	SUMM_T2	0	0	0	0	0	0	-1.94	-1.99	1	1	0	600	600	0
8/5/2024 22:10	43105	SMIL_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/5/2024 22:10	41903	REED_T1	0	0	0	0	0	0	0.4	0.35	1	1	0	1200	1200	0
8/5/2024 22:10	63401	HONY_T1	0	0	0	0	0	0	0.1	0.17	1	1	0	600	600	0
8/5/2024 22:10	64201	KINZ_T1	1	0	-1	0.3	0	-0.3	-0.33	-0.34	3	3	0	1500	1500	0
8/5/2024 22:10	64202	KINZ_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/5/2024 22:10	47401	PENS_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
8/5/2024 22:10	42801	SELI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:10	61701	ELIZ_T1	1	1	0	4	3.5	-0.5	0.94	1	0	0	0	0	0	0
8/5/2024 22:10	42802	SELI_T1	0	0	0	0	0	0	-0.86	-0.91	0	0	0	0	0	0
8/5/2024 22:10	64204	KINZ_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
8/5/2024 22:10	61304	EARL_T1	0	0	0	0	0	0	-0.14	-0.19	1	1	0	600	600	0
8/5/2024 22:10	41902	REED_T1	3	5	2	0.33	0.36	0.03	0	0	0	0	0	0	0	0
8/5/2024 22:10	65604	QVIL_T2	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
8/5/2024 22:10	47402	PENS_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/5/2024 22:10	64302	LINC_T2	0	0	0	0	0	0	0.65	0.53	0	0	0	0	0	0
8/5/2024 22:10	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 22:10	43108	SMIL_T2	0	0	0	0	0	0	-0.94	-0.97	1	1	0	1200	1200	0
8/5/2024 22:10	67603	WARW_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
8/5/2024 22:10	61102	BERK_T5	0	0	0	0	0	0	1.12	1.52	2	2	0	600	600	0
8/5/2024 22:10	52202	DEVO_T2	1	5	4	0.7	0.32	-0.38	-0.7	-0.73	0	0	0	0	0	0
8/5/2024 22:10	67605	WARW_T1	3	3	0	1.17	0.73	-0.44	0	0	0	0	0	0	0	0
8/5/2024 22:11	55001	NEWP_T1	0	0	0	0	0	0	-0.39	-0.48	1	1	0	600	600	0
8/5/2024 22:11	40601	PIGR_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:11	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/5/2024 22:11	56501	ROCK_T2	3	1	-2	0.27	0.4	0.13	-0.38	-0.51	0	0	0	0	0	0
8/5/2024 22:11	16402	MOPO_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
8/5/2024 22:11	46203	DANV_T2	6	8	2	0.58	0.63	0.05	0	0	0	0	0	0	0	0
8/5/2024 22:11	44801	EDAN_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
8/5/2024 22:11	22905	HARW_T1	11	22	11	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
8/5/2024 22:11	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 22:11	63402	HONY_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:11	40603	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/5/2024 22:11	65603	QVIL_T2	0	0	0	0	0	0	0.57	0.52	0	0	0	0	0	0
8/5/2024 22:11	63401	HONY_T1	0	0	0	0	0	0	0.1	0.17	1	1	0	600	600	0
8/5/2024 22:11	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:11	46206	DANV_T2	2	2	0	1.4	0.8	-0.6	1.7	1.69	2	2	0	2100	2100	0
8/5/2024 22:11	22901	HARW_T1	0	0	0	0	0	0	-0.14	-0.26	1	1	0	1200	1200	0
8/5/2024 22:11	44802	EDAN_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
8/5/2024 22:11	61102	BERK_T5	0	0	0	0	0	0	0.56	0.76	1	1	0	300	300	0
8/5/2024 22:11	44903	SCOT_T1	0	0	0	0	0	0	-0.36	-0.43	0	0	0	0	0	0
8/5/2024 22:11	22903	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:11	55002	NEWP_T1	3	1	-2	0.2	0.2	0	0	0	0	0	0	0	0	0
8/5/2024 22:11	56504	ROCK_T2	0	0	0	0	0	0	-1.55	-1.61	0	0	0	0	0	0
8/5/2024 22:11	40602	PIGR_T1	0	1	1	0	0.3	0.3	-1.09	-1.15	1	1	0	600	600	0
8/5/2024 22:11	63403	HONY_T2	0	0	0	0	0	0	-1	-0.97	0	0	0	0	0	0
8/5/2024 22:11	44905	SCOT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:12	56501	ROCK_T2	3	1	-2	0.27	0.4	0.13	-0.38	-0.51	0	0	0	0	0	0
8/5/2024 22:12	63201	MGTN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/5/2024 22:12	54601	SUMM_T2	0	0	0	0	0	0	-1.32	-1.37	2	2	0	2100	2100	0
8/5/2024 22:12	63202	MGTN_T2	0	0	0	0	0	0	0.35	0.47	1	1	0	900	900	0
8/5/2024 22:12	52004	LING_T2	2	2	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:12	55001	NEWP_T1	0	0	0	0	0	0	-0.39	-0.48	1	1	0	600	600	0
8/5/2024 22:12	43103	SMIL_T2	0	0	0	0	0	0	-0.27	-0.34	0	0	0	0	0	0
8/5/2024 22:12	55101	WERT_T1	0	0	0	0	0	0	-1.58	-1.6	3	3	0	2400	2400	0
8/5/2024 22:12	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/5/2024 22:12	54203	PENN_T1	5	5	0	0.92	0.82	-0.1	0.05	0.04	1	1	0	600	600	0
8/5/2024 22:12	53902	HALI_T2	1	1	0	4.8	3.9	-0.9	-0.53	-0.55	0	0	0	0	0	0
8/5/2024 22:12	55002	NEWP_T1	3	1	-2	0.2	0.2	0	0	0	0	0	0	0	0	0
8/5/2024 22:12	44301	BEAV_T2	0	1	1	0	0	0	-0.47	0.28	1	1	0	600	600	0
8/5/2024 22:12	23001	SAJO_T1	0	0	0	0	0	0	-0.74	-0.71	0	0	0	0	0	0
8/5/2024 22:12	25503	MADI_T1	0	0	0	0	0	0	-0.59	-0.62	0	0	0	0	0	0
8/5/2024 22:12	46206	DANV_T2	2	2	0	1.4	0.8	-0.6	1.7	1.69	2	2	0	2100	2100	0
8/5/2024 22:12	43105	SMIL_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/5/2024 22:12	64904	MILL_T1	0	0	0	0	0	0	0.49	0.58	0	0	0	0	0	0
8/5/2024 22:12	54201	PENN_T1	12	8	-4	0.67	0.75	0.08	0	0	0	0	0	0	0	0
8/5/2024 22:12	52002	LING_T2	0	0	0	0	0	0	1.42	1.34	0	0	0	0	0	0
8/5/2024 22:12	64901	MILL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:12	46203	DANV_T2	6	8	2	0.58	0.63	0.05	0	0	0	0	0	0	0	0
8/5/2024 22:12	53903	HALI_T2	2	1	-1	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
8/5/2024 22:12	27201	YATE_T1	0	0	0	0	0	0	0.19	0.14	0	0	0	0	0	0
8/5/2024 22:12	46001	BERW_T1	0	0	0	0	0	0	1.17	1.12	0	0	0	0	0	0
8/5/2024 22:12	56504	ROCK_T2	0	0	0	0	0	0	-0.77	-0.81	0	0	0	0	0	0
8/5/2024 22:12	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:13	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:13	42701	AUGU_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
8/5/2024 22:13	43104	SMIL_T2	0	0	0	0	0	0	-0.44	-0.44	1	1	0	300	300	0
8/5/2024 22:13	51004	NHAR_T1	1	1	0	6.3	6.9	0.6	0	0	0	0	0	0	0	0
8/5/2024 22:13	61301	EARL_T1	0	0	0	0	0	0	-0.97	-0.95	2	2	0	1800	1800	0
8/5/2024 22:13	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:13	60701	BREC_T1	0	0	0	0	0	0	-0.09	-0.13	1	1	0	600	600	0
8/5/2024 22:13	43108	SMIL_T2	0	0	0	0	0	0	-0.94	-0.97	1	1	0	1200	1200	0
8/5/2024 22:13	63602	LETO_T1	0	0	0	0	0	0	-0.11	-0.25	1	1	0	600	600	0
8/5/2024 22:13	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	1	1	0	900	900	0
8/5/2024 22:13	51002	NHAR_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/5/2024 22:13	40502	CRES_T2	11	2	-9	0.25	0.15	-0.1	-1.19	-1.2	0	0	0	0	0	0
8/5/2024 22:13	46903	MNTG_T2	0	0	0	0	0	0	0.4	0.35	1	1	0	600	600	0
8/5/2024 22:13	67605	WARW_T1	3	0	-3	1.17	0.73	-0.44	-0.92	-1	0	0	0	0	0	0
8/5/2024 22:13	63301	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/5/2024 22:13	43105	SMIL_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/5/2024 22:13	44802	EDAN_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
8/5/2024 22:13	42202	SHEN_T2	0	1	1	0	4.5	4.5	0	0	0	0	0	0	0	0
8/5/2024 22:13	44201	POIN_T1	0	0	0	0	0	0	-1.63	-1.71	2	2	0	2100	2100	0
8/5/2024 22:13	63304	GREE_T1	0	0	0	0	0	0	-1.02	-1.06	0	0	0	0	0	0
8/5/2024 22:13	47402	PENS_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/5/2024 22:13	63305	GREE_T1	8	16	8	0.36	0.41	0.05	0	0	0	0	0	0	0	0
8/5/2024 22:13	52002	LING_T2	0	0	0	0	0	0	0.71	0.67	0	0	0	0	0	0
8/5/2024 22:13	44801	EDAN_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
8/5/2024 22:13	42201	SHEN_T2	0	0	0	0	0	0	0.19	0.24	1	1	0	600	600	0
8/5/2024 22:13	47401	PENS_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
8/5/2024 22:13	40201	BEGA_T2	1	0	-1	2.1	0	-2.1	0	0	0	0	0	0	0	0
8/5/2024 22:13	45501	DERR_T2	2	3	1	0.7	1.1	0.4	0.1	0.07	2	2	0	1800	1800	0
8/5/2024 22:13	61505	EPET_T1	0	0	0	0	0	0	1.26	1.23	0	0	0	0	0	0
8/5/2024 22:13	67103	SPRI_T1	0	0	0	0	0	0	-0.59	-0.62	0	0	0	0	0	0
8/5/2024 22:13	67503	WEWI_T2	1	1	0	5.3	5.6	0.3	0.04	0.03	0	0	0	0	0	0
8/5/2024 22:13	61303	EARL_T1	1	2	1	1.3	0.2	-1.1	0	0	0	0	0	0	0	0
8/5/2024 22:13	52004	LING_T2	2	2	0	5.4	5.3	-0.1	0.2	0.14	0	0	0	0	0	0
8/5/2024 22:13	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/5/2024 22:13	29402	BELT_T1	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
8/5/2024 22:13	51003	NHAR_T1	6	9	3	0.42	0.75	0.33	-1.27	-1.3	1	1	0	1200	1200	0
8/5/2024 22:13	63401	HONY_T1	0	0	0	0	0	0	0.1	0.17	1	1	0	600	600	0
8/5/2024 22:13	65601	QVIL_T2	0	1	1	0	0.1	0.1	-0.16	-0.19	1	1	0	900	900	0
8/5/2024 22:13	57702	PAXT_T1	0	0	0	0	0	0	-0.4	-0.57	0	0	0	0	0	0
8/5/2024 22:14	67602	WARW_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
8/5/2024 22:14	47101	MARL_T1	32	48	16	0.68	0.82	0.14	-0.16	-0.27	0	0	0	0	0	0
8/5/2024 22:14	40201	BEGA_T2	1	0	-1	2.1	0	-2.1	0	0	0	0	0	0	0	0
8/5/2024 22:14	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:14	47401	PENS_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
8/5/2024 22:14	40101	HUNT_T2	17	5	-12	0.44	0.45	0.01	-1.19	-1.2	0	0	0	0	0	0
8/5/2024 22:14	53802	MBRG_T2	0	0	0	0	0	0	0.08	0.92	0	0	0	0	0	0
8/5/2024 22:14	67804	WLAN_T1	6	5	-1	0.37	0.17	-0.2	0	0	0	0	0	0	0	0
8/5/2024 22:14	43105	SMIL_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/5/2024 22:14	46102	MACI_T1	0	0	0	0	0	0	0.83	0.8	0	0	0	0	0	0
8/5/2024 22:14	43108	SMIL_T2	0	0	0	0	0	0	-0.94	-0.97	1	1	0	1200	1200	0
8/5/2024 22:14	43103	SMIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:14	59101	WALK_T2	0	0	0	0	0	0	0.56	0.05	6	6	0	3600	3600	0
8/5/2024 22:14	64302	LINC_T2	0	0	0	0	0	0	0.65	0.53	0	0	0	0	0	0
8/5/2024 22:14	65001	NEFF_T2	0	0	0	0	0	0	-0.17	-0.14	1	1	0	1200	1200	0
8/5/2024 22:14	57702	PAXT_T1	0	0	0	0	0	0	-0.2	-0.29	0	0	0	0	0	0
8/5/2024 22:14	47402	PENS_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/5/2024 22:14	55001	NEWP_T1	0	0	0	0	0	0	-0.39	-0.48	1	1	0	600	600	0
8/5/2024 22:14	45501	DERR_T2	2	3	1	0.7	1.1	0.4	0.1	0.07	2	2	0	1800	1800	0
8/5/2024 22:14	42802	SELI_T1	0	0	0	0	0	0	-0.86	-0.91	0	0	0	0	0	0
8/5/2024 22:14	42601	TUSC_T1	0	0	0	0	0	0	0.05	0.02	2	2	0	1800	1800	0
8/5/2024 22:14	42801	SELI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:14	20601	GRWO_T2	122	152	30	0.73	0.57	-0.16	2.54	2.51	0	0	0	0	0	0
8/5/2024 22:14	55002	NEWP_T1	3	1	-2	0.2	0.2	0	0	0	0	0	0	0	0	0
8/5/2024 22:14	56501	ROCK_T2	3	1	-2	0.27	0.4	0.13	-0.38	-0.51	0	0	0	0	0	0
8/5/2024 22:14	67803	WLAN_T1	0	0	0	0	0	0	-0.86	-0.9	0	0	0	0	0	0
8/5/2024 22:15	63501	HEID_TBK1-2	49	50	1	1.8	1.58	-0.22	0.24	0.2	1	1	0	900	900	0
8/5/2024 22:15	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/5/2024 22:15	61703	ELIZ_T1	0	0	0	0	0	0	-2.43	-2.5	2	2	0	2100	2100	0
8/5/2024 22:15	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:15	46501	LOHA_T1	0	1	1	0	0	0	0.54	0.57	1	1	0	1200	1200	0
8/5/2024 22:15	41902	REED_T1	5	5	0	0.38	0.2	-0.18	0.56	0.49	1	1	0	900	900	0
8/5/2024 22:15	45502	DERR_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
8/5/2024 22:15	47401	PENS_T1	0	0	0	0	0	0	0.8	0.74	0	0	0	0	0	0
8/5/2024 22:15	41901	REED_T1	9	4	-5	0.39	0.3	-0.09	0	0	0	0	0	0	0	0
8/5/2024 22:15	61701	ELIZ_T1	1	1	0	3.5	3.8	0.3	0	0	0	0	0	0	0	0
8/5/2024 22:15	52204	DEVO_T2	6	6	0	1.82	1.12	-0.7	0	0	0	0	0	0	0	0
8/5/2024 22:15	40101	HUNT_T2	5	3	-2	0.44	0	-0.44	-1.19	-1.2	0	0	0	0	0	0
8/5/2024 22:15	52202	DEVO_T2	5	5	0	0.36	0	-0.36	-0.7	-0.73	0	0	0	0	0	0
8/5/2024 22:15	46203	DANV_T2	8	0	-8	0.63	0	-0.63	-1.12	-0.24	0	0	0	0	0	0
8/5/2024 22:15	43103	SMIL_T2	0	0	0	0	0	0	-0.54	-0.69	0	0	0	0	0	0
8/5/2024 22:15	45501	DERR_T2	2	3	1	1.1	0.67	-0.43	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/5/2024 22:15	42802	SELI_T1	0	1	1	0	0.1	0.1	-0.86	-0.91	0	0	0	0	0	0
8/5/2024 22:15	63602	LETO_T1	0	0	0	0	0	0	-0.11	-0.25	1	1	0	600	600	0
8/5/2024 22:15	42902	MIDD_T2	1	0	-1	0.2	0	-0.2	-0.7	-0.69	1	1	0	600	600	0
8/5/2024 22:15	44802	EDAN_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
8/5/2024 22:15	42901	MIDD_T2	3	3	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/5/2024 22:15	42903	MIDD_T2	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:15	52402	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/5/2024 22:15	56501	ROCK_T2	1	3	2	0.4	0.2	-0.2	-0.38	-0.51	0	0	0	0	0	0
8/5/2024 22:15	52404	GRPA_T2	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
8/5/2024 22:15	42801	SELI_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/5/2024 22:15	44801	EDAN_T2	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/5/2024 22:15	64101	REFR_T1	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
8/5/2024 22:15	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/5/2024 22:15	46504	LOHA_T1	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
8/5/2024 22:15	52403	GRPA_T2	6	3	-3	0.68	0.7	0.02	0	0	0	0	0	0	0	0
8/5/2024 22:15	46206	DANV_T2	2	2	0	1.15	0.55	-0.6	0	0	0	0	0	0	0	0
8/5/2024 22:15	46001	BERW_T1	0	0	0	0	0	0	1.17	1.12	0	0	0	0	0	0
8/5/2024 22:15	46506	LOHA_T1	179	221	42	0.23	0.28	0.05	0	0	0	0	0	0	0	0
8/5/2024 22:16	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/5/2024 22:16	43301	WATS_T2	0	0	0	0	0	0	-0.22	-0.3	1	1	0	900	900	0
8/5/2024 22:16	43104	SMIL_T2	0	0	0	0	0	0	-0.44	-0.44	1	1	0	300	300	0
8/5/2024 22:16	42503	ALTA_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
8/5/2024 22:16	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/5/2024 22:16	45501	DERR_T2	2	3	1	1.1	0.67	-0.43	0.19	0.15	4	4	0	3600	3600	0
8/5/2024 22:16	52004	LING_T2	2	2	0	4.95	5.45	0.5	0	0	0	0	0	0	0	0
8/5/2024 22:16	59002	MIFF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 22:16	42801	SELI_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/5/2024 22:16	40502	CRES_T2	1	2	1	0.1	0.15	0.05	-1.78	-1.8	0	0	0	0	0	0
8/5/2024 22:16	52002	LING_T2	0	0	0	0	0	0	0.71	0.67	0	0	0	0	0	0
8/5/2024 22:16	57104	SPHI_T2	0	0	0	0	0	0	-1.08	-1.15	1	1	0	900	900	0
8/5/2024 22:16	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:16	27502	WEIS_T2	0	2	2	0	0	0	-0.22	-0.23	0	0	0	0	0	0
8/5/2024 22:16	52402	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/5/2024 22:16	54502	ENOL_T2	1	1	0	8.7	8.6	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:16	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:16	46901	MNTG_T2	0	0	0	0	0	0	0.45	0.61	1	1	0	1200	1200	0
8/5/2024 22:16	54602	SUMM_T2	0	0	0	0	0	0	-1.94	-1.99	1	1	0	600	600	0
8/5/2024 22:16	44801	EDAN_T2	1	2	1	0.6	0	-0.6	-1.34	-1.33	0	0	0	0	0	0
8/5/2024 22:16	54503	ENOL_T2	0	0	0	0	0	0	-1.51	-1.74	1	1	0	600	600	0
8/5/2024 22:16	52403	GRPA_T2	6	3	-3	0.68	0.7	0.02	-0.28	-0.35	0	0	0	0	0	0
8/5/2024 22:16	24702	FLND_T2	0	0	0	0	0	0	0.34	0.16	1	1	0	1200	1200	0
8/5/2024 22:16	67602	WARW_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
8/5/2024 22:16	67605	WARW_T1	3	3	0	0.73	0.97	0.24	-1.84	-1.99	0	0	0	0	0	0
8/5/2024 22:16	57106	SPHI_T2	3	3	0	0.8	1.07	0.27	0	0	0	0	0	0	0	0
8/5/2024 22:16	66901	SHIL_T2	147	188	41	0.26	0.31	0.05	-0.85	-0.84	1	1	0	1200	1200	0
8/5/2024 22:16	45801	HEGI_T1	0	0	0	0	0	0	-0.2	-0.28	1	1	0	900	900	0
8/5/2024 22:16	50701	SMEC_T1	0	0	0	0	0	0	0.21	0.13	0	0	0	0	0	0
8/5/2024 22:16	59003	MIFF_T1	0	1	1	0	0.2	0.2	-0.27	-0.1	0	0	0	0	0	0
8/5/2024 22:16	66903	SHIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/5/2024 22:16	56501	ROCK_T2	1	3	2	0.4	0.2	-0.2	-1.14	-1.52	0	0	0	0	0	0
8/5/2024 22:16	43101	SMIL_T2	0	0	0	0	0	0	-0.53	-0.56	1	1	0	300	300	0
8/5/2024 22:16	43304	WATS_T2	22	13	-9	0.54	0.39	-0.15	0	0	0	0	0	0	0	0
8/5/2024 22:16	64101	REFR_T1	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
8/5/2024 22:16	66902	SHIL_T2	10	21	11	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
8/5/2024 22:16	61102	BERK_T5	0	0	0	0	0	0	0.56	0.76	1	1	0	300	300	0
8/5/2024 22:16	42802	SELI_T1	0	1	1	0	0.1	0.1	-0.86	-0.91	0	0	0	0	0	0
8/5/2024 22:16	22903	HARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:17	42601	TUSC_T1	0	0	0	0	0	0	0.1	0.04	4	4	0	3600	3600	0
8/5/2024 22:17	60504	NMAN_T2	0	0	0	0	0	0	-0.03	-0.06	1	1	0	1200	1200	0
8/5/2024 22:17	60201	ATGL_T2	0	1	1	0	0.1	0.1	0.48	0.49	0	0	0	0	0	0
8/5/2024 22:17	40502	CRES_T2	1	2	1	0.1	0.15	0.05	-0.59	-0.6	0	0	0	0	0	0
8/5/2024 22:17	41702	LOGA_T2	17	3	-14	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
8/5/2024 22:17	58202	NEWV_T1	0	0	0	0	0	0	0.61	0.57	0	0	0	0	0	0
8/5/2024 22:17	52002	LING_T2	0	0	0	0	0	0	0.71	0.67	0	0	0	0	0	0
8/5/2024 22:17	44301	BEAV_T2	1	0	-1	0.2	0	-0.2	-0.47	0.28	1	1	0	600	600	0
8/5/2024 22:17	40101	HUNT_T2	5	3	-2	0.44	0	-0.44	-1.19	-1.2	0	0	0	0	0	0
8/5/2024 22:17	42903	MIDD_T2	2	1	-1	0.4	0.3	-0.1	0.56	0.56	0	0	0	0	0	0
8/5/2024 22:17	64802	MONE_T2	1	0	-1	0.1	0	-0.1	0.31	0.29	0	0	0	0	0	0
8/5/2024 22:17	52004	LING_T2	2	2	0	4.95	5.45	0.5	0	0	0	0	0	0	0	0
8/5/2024 22:17	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:17	42902	MIDD_T2	1	0	-1	0.2	0	-0.2	-0.7	-0.69	1	1	0	600	600	0
8/5/2024 22:17	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:17	22905	HARW_T1	11	12	1	0.52	0	-0.52	0	0	0	0	0	0	0	0
8/5/2024 22:17	67602	WARW_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
8/5/2024 22:17	22901	HARW_T1	0	0	0	0	0	0	-0.14	-0.26	1	1	0	1200	1200	0
8/5/2024 22:17	50701	SMEC_T1	0	0	0	0	0	0	0.21	0.13	0	0	0	0	0	0
8/5/2024 22:17	67605	WARW_T1	3	3	0	0.73	0.97	0.24	-0.92	-1	0	0	0	0	0	0
8/5/2024 22:17	42901	MIDD_T2	3	3	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/5/2024 22:17	47101	MARL_T1	38	34	-4	0.86	0.92	0.06	-0.16	-0.27	0	0	0	0	0	0
8/5/2024 22:17	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
8/5/2024 22:17	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:18	55101	WERT_T1	0	0	0	0	0	0	-1.58	-1.6	3	3	0	2400	2400	0
8/5/2024 22:18	52402	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/5/2024 22:18	20601	GRWO_T2	149	123	-26	0.67	0.42	-0.25	0	0	0	0	0	0	0	0
8/5/2024 22:18	60502	NMAN_T2	0	0	0	0	0	0	0.38	0.28	0	0	0	0	0	0
8/5/2024 22:18	61703	ELIZ_T1	0	0	0	0	0	0	-2.43	-2.5	2	2	0	2100	2100	0
8/5/2024 22:18	42902	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/5/2024 22:18	44802	EDAN_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
8/5/2024 22:18	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:18	20402	ASHF_T2	6	0	-6	1.12	0	-1.12	0	0	0	0	0	0	0	0
8/5/2024 22:18	67801	WLAN_T1	0	1	1	0	0	0	-0.79	0.39	0	0	0	0	0	0
8/5/2024 22:18	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	1.38	1.4	0	0	0	0	0	0
8/5/2024 22:18	22905	HARW_T1	11	12	1	0.52	0	-0.52	0	0	0	0	0	0	0	0
8/5/2024 22:18	58401	MORO_T1	0	0	0	0	0	0	-0.28	-0.4	1	1	0	600	600	0
8/5/2024 22:18	65901	SAKR_T2	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
8/5/2024 22:18	48602	POCA_T1	0	0	0	0	0	0	0.01	-0.18	1	1	0	1200	1200	0
8/5/2024 22:18	61102	BERK_T5	0	0	0	0	0	0	0.56	0.76	1	1	0	300	300	0
8/5/2024 22:18	20401	ASHF_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:18	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/5/2024 22:18	51204	MTON_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	900	900	0
8/5/2024 22:18	46102	MACI_T1	0	0	0	0	0	0	0.83	0.8	0	0	0	0	0	0
8/5/2024 22:18	41002	LAUR_T2	2	2	0	0.7	1.6	0.9	0	-0.02	0	0	0	0	0	0
8/5/2024 22:18	56501	ROCK_T2	1	3	2	0.4	0.2	-0.2	-1.14	-1.52	0	0	0	0	0	0
8/5/2024 22:18	44801	EDAN_T2	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/5/2024 22:18	61701	ELIZ_T1	1	1	0	3.5	3.8	0.3	0	0	0	0	0	0	0	0
8/5/2024 22:18	22903	HARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:18	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:18	40502	CRES_T2	1	2	1	0.1	0.15	0.05	-0.59	-0.6	0	0	0	0	0	0
8/5/2024 22:18	20603	GRWO_T2	0	0	0	0	0	0	-0.32	-0.36	1	1	0	900	900	0
8/5/2024 22:18	65902	SAKR_T2	0	0	0	0	0	0	-0.95	-0.93	1	1	0	900	900	0
8/5/2024 22:18	40101	HUNT_T2	5	3	-2	0.44	0	-0.44	-1.19	-1.2	0	0	0	0	0	0
8/5/2024 22:18	57303	MOAL_T2	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
8/5/2024 22:18	46203	DANV_T2	8	0	-8	0.63	0	-0.63	-4.46	-0.94	0	0	0	0	0	0
8/5/2024 22:18	22901	HARW_T1	0	0	0	0	0	0	-0.14	-0.26	1	1	0	1200	1200	0
8/5/2024 22:18	67602	WARW_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
8/5/2024 22:18	42901	MIDD_T2	3	3	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/5/2024 22:18	52204	DEVO_T2	6	6	0	1.82	1.12	-0.7	0	0	0	0	0	0	0	0
8/5/2024 22:18	57304	MOAL_T2	0	0	0	0	0	0	-0.11	-0.16	0	0	0	0	0	0
8/5/2024 22:18	58203	NEWV_T2	10	2	-8	0.67	5.3	4.63	-0.92	-0.94	0	0	0	0	0	0
8/5/2024 22:18	52202	DEVO_T2	5	5	0	0.36	0	-0.36	-0.7	-0.73	0	0	0	0	0	0
8/5/2024 22:18	44701	MUNC_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/5/2024 22:18	43202	MVIL_T2	0	36	36	0	0.19	0.19	-0.5	-0.48	0	0	0	0	0	0
8/5/2024 22:18	67804	WLAN_T1	5	6	1	0.26	0.17	-0.09	0	0	0	0	0	0	0	0
8/5/2024 22:18	52403	GRPA_T2	6	3	-3	0.68	0.7	0.02	-0.28	-0.35	0	0	0	0	0	0
8/5/2024 22:18	46206	DANV_T2	2	2	0	1.15	0.55	-0.6	0	0	0	0	0	0	0	0
8/5/2024 22:18	42903	MIDD_T2	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:18	42801	SELI_T1	1	0	-1	0.6	0	-0.6	-0.51	-0.55	1	1	0	1200	1200	0
8/5/2024 22:18	42802	SELI_T1	0	1	1	0	0.1	0.1	-0.86	-0.91	0	0	0	0	0	0
8/5/2024 22:19	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/5/2024 22:19	44801	EDAN_T2	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/5/2024 22:19	20402	ASHF_T2	6	0	-6	1.12	0	-1.12	0	0	0	0	0	0	0	0
8/5/2024 22:19	46206	DANV_T2	2	2	0	1.15	0.55	-0.6	0	0	0	0	0	0	0	0
8/5/2024 22:19	44802	EDAN_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
8/5/2024 22:19	46803	HEPB_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/5/2024 22:19	52204	DEVO_T2	6	6	0	1.82	1.12	-0.7	0	0	0	0	0	0	0	0
8/5/2024 22:19	43104	SMIL_T2	0	0	0	0	0	0	-0.44	-0.44	1	1	0	300	300	0
8/5/2024 22:19	40101	HUNT_T2	5	3	-2	0.44	0	-0.44	-1.19	-1.2	0	0	0	0	0	0
8/5/2024 22:19	43202	MVIL_T2	0	36	36	0	0.19	0.19	-0.5	-0.48	0	0	0	0	0	0
8/5/2024 22:19	52004	LING_T2	2	2	0	4.95	5.45	0.5	0.2	0.14	0	0	0	0	0	0
8/5/2024 22:19	63305	GREE_T1	16	7	-9	0.41	0.26	-0.15	0	0	0	0	0	0	0	0
8/5/2024 22:19	42901	MIDD_T2	3	3	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/5/2024 22:19	45802	HEGI_T2	4	5	1	0.25	0.2	-0.05	1.04	0.71	0	1	1	0	300	300
8/5/2024 22:19	56504	ROCK_T2	0	0	0	0	0	0	-0.77	-0.81	0	0	0	0	0	0
8/5/2024 22:19	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:19	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/5/2024 22:19	46506	LOHA_T1	179	221	42	0.23	0.28	0.05	-1.79	-1.8	1	1	0	1200	1200	0
8/5/2024 22:19	45501	DERR_T2	2	3	1	1.1	0.67	-0.43	0.19	0.15	4	4	0	3600	3600	0
8/5/2024 22:19	63304	GREE_T1	0	0	0	0	0	0	-1.02	-1.06	0	0	0	0	0	0
8/5/2024 22:19	63602	LETO_T1	0	0	0	0	0	0	-0.11	-0.25	1	1	0	600	600	0
8/5/2024 22:19	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	0.69	0.7	0	0	0	0	0	0
8/5/2024 22:19	61701	ELIZ_T1	1	1	0	3.5	3.8	0.3	0	0	0	0	0	0	0	0
8/5/2024 22:19	58402	MORO_T1	0	0	0	0	0	0	0.49	0.46	2	2	0	1500	1500	0
8/5/2024 22:19	53502	EVIL_T2	0	0	0	0	0	0	-0.77	-0.78	3	3	0	2100	2100	0
8/5/2024 22:19	46203	DANV_T2	8	0	-8	0.63	0	-0.63	-1.12	-0.24	0	0	0	0	0	0
8/5/2024 22:19	44902	SCOT_T2	0	93	93	0	0.18	0.18	-0.48	-0.56	0	0	0	0	0	0
8/5/2024 22:19	63301	GREE_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:19	43103	SMIL_T2	0	0	0	0	0	0	-0.27	-0.34	0	0	0	0	0	0
8/5/2024 22:19	46801	HEPB_T2	8	13	5	0.38	0.32	-0.06	0.06	0.01	0	0	0	0	0	0
8/5/2024 22:19	20401	ASHF_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:19	53501	EVIL_T2	1	2	1	1.3	0.6	-0.7	-0.01	-0.01	2	1	-1	1500	600	-900
8/5/2024 22:19	45502	DERR_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
8/5/2024 22:19	64305	LINC_T1	1	1	0	0.7	1	0.3	-0.02	-0.06	0	0	0	0	0	0
8/5/2024 22:19	61303	EARL_T1	2	1	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/5/2024 22:19	46504	LOHA_T1	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
8/5/2024 22:19	58202	NEWV_T1	0	0	0	0	0	0	0.61	0.57	0	0	0	0	0	0
8/5/2024 22:19	61304	EARL_T1	0	0	0	0	0	0	-0.14	-0.19	1	1	0	600	600	0
8/5/2024 22:19	52202	DEVO_T2	5	5	0	0.36	0	-0.36	-0.7	-0.73	0	0	0	0	0	0
8/5/2024 22:19	42902	MIDD_T2	1	0	-1	0.2	0	-0.2	-1.4	-1.38	2	2	0	1200	1200	0
8/5/2024 22:19	42903	MIDD_T2	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:19	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
8/5/2024 22:19	56501	ROCK_T2	1	3	2	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/5/2024 22:19	20601	GRWO_T2	149	123	-26	0.67	0.42	-0.25	1.27	1.26	0	0	0	0	0	0
8/5/2024 22:19	61703	ELIZ_T1	0	0	0	0	0	0	-2.43	-2.5	2	2	0	2100	2100	0
8/5/2024 22:20	67605	WARW_T1	3	3	0	0.73	0.97	0.24	0	0	0	0	0	0	0	0
8/5/2024 22:20	20402	ASHF_T2	6	0	-6	1.12	0	-1.12	0	0	0	0	0	0	0	0
8/5/2024 22:20	52402	GRPA_T2	0	2	2	0	0.2	0.2	-0.58	-0.58	0	0	0	0	0	0
8/5/2024 22:20	46506	LOHA_T1	179	221	42	0.23	0.28	0.05	-1.79	-1.8	1	1	0	1200	1200	0
8/5/2024 22:20	51004	NHAR_T1	1	1	0	7.1	6.7	-0.4	-0.56	-0.61	0	0	0	0	0	0
8/5/2024 22:20	46503	LOHA_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
8/5/2024 22:20	52401	GRPA_T2	0	1	1	0	0.4	0.4	-0.19	-0.2	0	0	0	0	0	0
8/5/2024 22:20	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:20	20401	ASHF_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:20	46504	LOHA_T1	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
8/5/2024 22:20	64101	REFR_T1	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
8/5/2024 22:20	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:20	52403	GRPA_T2	6	3	-3	0.68	0.7	0.02	0	0	0	0	0	0	0	0
8/5/2024 22:20	44801	EDAN_T2	1	2	1	0.6	0	-0.6	-2.67	-2.65	0	0	0	0	0	0
8/5/2024 22:20	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	0.69	0.7	0	0	0	0	0	0
8/5/2024 22:20	55101	WERT_T1	0	0	0	0	0	0	-6.32	-6.4	12	12	0	9600	9600	0
8/5/2024 22:20	51003	NHAR_T1	9	6	-3	1.03	0.33	-0.7	0	0	0	0	0	0	0	0
8/5/2024 22:20	67604	WARW_T1	0	0	0	0	0	0	0.29	0.23	0	0	0	0	0	0
8/5/2024 22:20	65802	RTWN_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
8/5/2024 22:20	47101	MARL_T1	38	34	-4	0.86	0.92	0.06	-0.16	-0.27	0	0	0	0	0	0
8/5/2024 22:21	42801	SELI_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/5/2024 22:21	64101	REFR_T1	0	0	0	0	0	0	-0.26	0.9	0	0	0	0	0	0
8/5/2024 22:21	63501	HEID_TBK1-2	49	50	1	1.8	1.58	-0.22	0.2	0.2	1	1	0	900	900	0
8/5/2024 22:21	41902	REED_T1	5	5	0	0.38	0.2	-0.18	0.56	0.49	1	1	0	900	900	0
8/5/2024 22:21	67605	WARW_T1	3	3	0	0.73	0.97	0.24	-1	-1	0	0	0	0	0	0
8/5/2024 22:21	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/5/2024 22:21	53501	EVIL_T2	1	2	1	1.3	0.6	-0.7	0	0	0	0	0	0	0	0
8/5/2024 22:21	49803	UNIV_T1	1	1	0	5.5	5.4	-0.1	-1.78	-1.83	0	0	0	0	0	0
8/5/2024 22:21	40101	HUNT_T2	5	3	-2	0.44	0	-0.44	-1.19	-1.2	0	0	0	0	0	0
8/5/2024 22:21	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:21	40902	JESH_T1	0	0	0	0	0	0	-0.86	-1.03	1	1	0	600	600	0
8/5/2024 22:21	42802	SELI_T1	0	1	1	0	0.1	0.1	-0.86	-0.91	0	0	0	0	0	0
8/5/2024 22:21	59101	WALK_T2	0	0	0	0	0	0	0.28	0.02	3	3	0	1800	1800	0
8/5/2024 22:21	61701	ELIZ_T1	1	1	0	3.5	3.8	0.3	0	0	0	0	0	0	0	0
8/5/2024 22:21	51204	MTON_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	900	900	0
8/5/2024 22:21	64201	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/5/2024 22:21	46101	MACI_T2	0	0	0	0	0	0	0.77	0.8	0	0	0	0	0	0
8/5/2024 22:21	46501	LOHA_T1	0	1	1	0	0	0	0.54	0.57	1	1	0	1200	1200	0
8/5/2024 22:21	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:21	64203	KINZ_T1	0	0	0	0	0	0	0.14	0.05	1	1	0	600	600	0
8/5/2024 22:21	46506	LOHA_T1	179	221	42	0.23	0.28	0.05	0	0	0	0	0	0	0	0
8/5/2024 22:21	20601	GRWO_T2	149	123	-26	0.67	0.42	-0.25	0	0	0	0	0	0	0	0
8/5/2024 22:21	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/5/2024 22:21	44801	EDAN_T2	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/5/2024 22:21	20603	GRWO_T2	0	0	0	0	0	0	-0.32	-0.36	1	1	0	900	900	0
8/5/2024 22:21	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:21	58706	ROSE_T2	1	0	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:21	58701	ROSE_T2	0	0	0	0	0	0	-0.35	-0.39	1	1	0	600	600	0
8/5/2024 22:21	43103	SMIL_T2	0	0	0	0	0	0	-0.27	-0.34	0	0	0	0	0	0
8/5/2024 22:21	58401	MORO_T1	0	0	0	0	0	0	-0.28	-0.4	1	1	0	600	600	0
8/5/2024 22:21	55101	WERT_T1	0	0	0	0	0	0	-3.16	-3.2	6	6	0	4800	4800	0
8/5/2024 22:21	44802	EDAN_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
8/5/2024 22:21	43104	SMIL_T2	0	0	0	0	0	0	-0.44	-0.44	1	1	0	300	300	0
8/5/2024 22:21	56501	ROCK_T2	1	3	2	0.4	0.2	-0.2	-0.38	-0.51	0	0	0	0	0	0
8/5/2024 22:21	61703	ELIZ_T1	0	0	0	0	0	0	-2.5	-2.53	2	2	0	2100	2100	0
8/5/2024 22:21	46504	LOHA_T1	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
8/5/2024 22:21	41901	REED_T1	9	4	-5	0.39	0.3	-0.09	0	0	0	0	0	0	0	0
8/5/2024 22:21	64204	KINZ_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
8/5/2024 22:21	58705	ROSE_T2	5	5	0	0.6	0.86	0.26	0	0	0	0	0	0	0	0
8/5/2024 22:21	42201	SHEN_T2	0	0	0	0	0	0	0.19	0.24	1	1	0	600	600	0
8/5/2024 22:21	53502	EVIL_T2	0	0	0	0	0	0	-0.77	-0.78	3	3	0	2100	2100	0
8/5/2024 22:21	40502	CRES_T2	1	2	1	0.1	0.15	0.05	-1.19	-1.2	0	0	0	0	0	0
8/5/2024 22:21	47101	MARL_T1	38	34	-4	0.86	0.92	0.06	-0.16	-0.27	0	0	0	0	0	0
8/5/2024 22:21	60103	COCA_T2	0	0	0	0	0	0	-0.88	-0.86	1	1	0	900	900	0
8/5/2024 22:22	43202	MVIL_T2	0	36	36	0	0.19	0.19	-0.48	-0.5	0	0	0	0	0	0
8/5/2024 22:22	46801	HEPB_T2	8	13	5	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
8/5/2024 22:22	57702	PAXT_T1	0	0	0	0	0	0	-0.29	-0.33	0	0	0	0	0	0
8/5/2024 22:22	61502	EPET_T1	0	0	0	0	0	0	-2.1	-2.14	0	0	0	0	0	0
8/5/2024 22:22	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:22	67804	WLAN_T1	5	6	1	0.26	0.17	-0.09	0	0	0	0	0	0	0	0
8/5/2024 22:22	44701	MUNC_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/5/2024 22:22	46803	HEPB_T2	1	2	1	0.2	0.15	-0.05	0.7	0.62	0	0	0	0	0	0
8/5/2024 22:22	67602	WARW_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
8/5/2024 22:22	47401	PENS_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
8/5/2024 22:22	54701	NEBL_T1	0	1	1	0	0.7	0.7	0	0	1	1	0	600	600	0
8/5/2024 22:22	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:22	67805	WLAN_T1	0	0	0	0	0	0	-0.95	-0.99	0	0	0	0	0	0
8/5/2024 22:22	41902	REED_T1	5	5	0	0.38	0.2	-0.18	0.49	0.46	1	1	0	900	900	0
8/5/2024 22:22	67801	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:22	41901	REED_T1	9	4	-5	0.39	0.3	-0.09	0	0	0	0	0	0	0	0
8/5/2024 22:22	58401	MORO_T1	0	0	0	0	0	0	-0.4	-0.42	1	1	0	600	600	0
8/5/2024 22:23	42903	MIDD_T2	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:23	58401	MORO_T1	0	0	0	0	0	0	-0.4	-0.42	1	1	0	600	600	0
8/5/2024 22:23	52204	DEVO_T2	6	6	0	1.82	1.12	-0.7	0	0	0	0	0	0	0	0
8/5/2024 22:23	55001	NEWP_T1	0	0	0	0	0	0	-0.48	-0.47	1	1	0	600	600	0
8/5/2024 22:23	42902	MIDD_T2	1	0	-1	0.2	0	-0.2	-0.69	-0.76	1	1	0	600	600	0
8/5/2024 22:23	46504	LOHA_T1	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
8/5/2024 22:23	52002	LING_T2	0	0	0	0	0	0	1.34	1.23	0	0	0	0	0	0
8/5/2024 22:23	46506	LOHA_T1	179	221	42	0.23	0.28	0.05	0	0	0	0	0	0	0	0
8/5/2024 22:23	52202	DEVO_T2	5	5	0	0.36	0	-0.36	-0.73	-0.79	0	0	0	0	0	0
8/5/2024 22:23	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:23	41002	LAUR_T2	2	2	0	0.7	1.6	0.9	-0.02	0	0	0	0	0	0	0
8/5/2024 22:23	64101	REFR_T1	0	0	0	0	0	0	-0.13	0.45	0	0	0	0	0	0
8/5/2024 22:23	52004	LING_T2	2	2	0	4.95	5.45	0.5	0	0	0	0	0	0	0	0
8/5/2024 22:23	63501	HEID_TBK1-2	49	50	1	1.8	1.58	-0.22	0.2	0.2	1	1	0	900	900	0
8/5/2024 22:23	42901	MIDD_T2	3	3	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/5/2024 22:23	40902	JESH_T1	0	0	0	0	0	0	-1.03	-0.94	1	1	0	600	600	0
8/5/2024 22:23	55002	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/5/2024 22:23	45501	DERR_T2	2	3	1	1.1	0.67	-0.43	0.07	0.15	2	2	0	1800	1800	0
8/5/2024 22:23	46501	LOHA_T1	0	1	1	0	0	0	0.57	0.51	1	1	0	1200	1200	0
8/5/2024 22:24	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:24	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:24	45302	WBER_T2	0	0	0	0	0	0	1.36	1.34	0	0	0	0	0	0
8/5/2024 22:24	20401	ASHF_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/5/2024 22:24	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	0.7	0.65	0	0	0	0	0	0
8/5/2024 22:24	20402	ASHF_T2	6	0	-6	1.12	0	-1.12	0	0	0	0	0	0	0	0
8/5/2024 22:24	67605	WARW_T1	3	3	0	0.73	0.97	0.24	-1	-1	0	0	0	0	0	0
8/5/2024 22:24	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:24	67602	WARW_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
8/5/2024 22:24	44301	BEAV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/5/2024 22:24	45303	WBER_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/5/2024 22:24	50701	SMEC_T1	0	0	0	0	0	0	0.13	0.06	0	0	0	0	0	0
8/5/2024 22:25	53601	DALM_T2	0	0	0	0	0	0	0.15	0.14	1	1	0	600	600	0
8/5/2024 22:25	46506	LOHA_T1	179	221	42	0.23	0.28	0.05	-3.6	-3.69	2	2	0	2400	2400	0
8/5/2024 22:25	46504	LOHA_T1	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
8/5/2024 22:25	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:25	45402	WBLO_T2	21	38	17	0.23	0.36	0.13	-1.12	-1.15	1	1	0	900	900	0
8/5/2024 22:25	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:25	45501	DERR_T2	2	3	1	1.1	0.67	-0.43	0.07	0.15	2	2	0	1800	1800	0
8/5/2024 22:25	45801	HEGI_T1	0	0	0	0	0	0	-0.28	-0.31	1	1	0	900	900	0
8/5/2024 22:26	42802	SELI_T1	0	1	1	0	0.1	0.1	-0.91	-0.91	0	0	0	0	0	0
8/5/2024 22:26	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/5/2024 22:26	52402	GRPA_T2	0	2	2	0	0.2	0.2	-0.58	-0.47	0	0	0	0	0	0
8/5/2024 22:26	42801	SELI_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/5/2024 22:26	47101	MARL_T1	38	34	-4	0.86	0.92	0.06	-0.27	-0.34	0	0	0	0	0	0
8/5/2024 22:26	55101	WERT_T1	0	0	0	0	0	0	-1.6	-1.62	3	3	0	2400	2400	0
8/5/2024 22:26	52403	GRPA_T2	6	3	-3	0.68	0.7	0.02	-0.35	-0.37	0	0	0	0	0	0
8/5/2024 22:27	46206	DANV_T2	2	2	0	1.15	0.55	-0.6	0	0	0	0	0	0	0	0
8/5/2024 22:27	46803	HEPB_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/5/2024 22:27	45501	DERR_T2	2	3	1	1.1	0.67	-0.43	0.07	0.15	2	2	0	1800	1800	0
8/5/2024 22:27	46203	DANV_T2	8	0	-8	0.63	0	-0.63	-0.24	-0.26	0	0	0	0	0	0
8/5/2024 22:27	46801	HEPB_T2	8	13	5	0.38	0.32	-0.06	0.01	0	0	0	0	0	0	0
8/5/2024 22:29	46901	MNTG_T2	0	0	0	0	0	0	0.61	0.6	1	1	0	1200	1200	0
8/5/2024 22:29	46001	BERW_T1	0	0	0	0	0	0	1.12	1.12	0	0	0	0	0	0
8/5/2024 22:30	42201	SHEN_T2	0	0	0	0	0	0	0.24	0.14	1	1	0	600	600	0
8/5/2024 22:30	42202	SHEN_T2	1	0	-1	4.5	0	-4.5	0	0	0	0	0	0	0	0
8/5/2024 22:30	46901	MNTG_T2	0	0	0	0	0	0	0.61	0.6	1	1	0	1200	1200	0
8/5/2024 22:37	54506	ENOL_T2	0	0	0	0	0	0	0.25	0.2	1	1	0	600	600	0
8/5/2024 22:37	52204	DEVO_T2	6	6	0	1.48	0.53	-0.95	0	0	0	0	0	0	0	0
8/5/2024 22:37	52202	DEVO_T2	5	0	-5	0.46	0	-0.46	-0.79	-0.79	0	0	0	0	0	0
8/5/2024 22:37	54502	ENOL_T2	1	1	0	8.6	8.6	0	0	0	0	0	0	0	0	0
8/5/2024 22:38	13503	MCMI_T2	18	32	14	0.14	0.2	0.06	-0.64	-0.26	0	0	0	0	0	0
8/5/2024 22:48	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2024 22:48	40502	CRES_T2	2	8	6	0.15	0.25	0.1	-0.66	-0.73	0	0	0	0	0	0
8/5/2024 22:57	53501	EVIL_T2	1	1	0	1	1.3	0.3	-0.01	-0.01	2	2	0	1200	1200	0
8/5/2024 22:59	52403	GRPA_T2	1	2	1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/5/2024 22:59	52404	GRPA_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
8/5/2024 22:59	52401	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/5/2024 22:59	53501	EVIL_T2	1	1	0	1	1.3	0.3	-0.02	-0.02	3	3	0	1800	1800	0
8/5/2024 22:59	52402	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/5/2024 23:00	53501	EVIL_T2	1	1	0	1.3	1	-0.3	-0.01	-0.01	1	1	0	600	600	0
8/5/2024 23:17	47101	MARL_T1	10	6	-4	0.52	0	-0.52	-0.36	-0.35	0	0	0	0	0	0
8/5/2024 23:42	40101	HUNT_T2	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/6/2024 0:12	53501	EVIL_T2	2	2	0	0.6	0.9	0.3	-0.01	-0.01	2	2	0	1200	1200	0
8/6/2024 2:26	44301	BEAV_T2	0	0	0	0	0	0	-0.51	-0.48	1	1	0	600	600	0
8/6/2024 2:38	65901	SAKR_T2	1	1	0	8.8	8.8	0	-1.33	-1.31	2	2	0	1500	1500	0
8/6/2024 5:10	61701	ELIZ_T1	1	1	0	3.8	3.4	-0.4	0.76	0.73	0	0	0	0	0	0
8/6/2024 6:51	46302	ROHR_T1	4	4	0	1.23	1.53	0.3	0.22	0.22	0	0	0	0	0	0
8/6/2024 6:58	29402	BELT_T1	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 6:58	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/6/2024 7:17	64204	KINZ_T1	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
8/6/2024 7:17	64203	KINZ_T1	0	0	0	0	0	0	0.14	0.14	3	3	0	2100	2100	0
8/6/2024 7:20	47401	PENS_T1	0	1	1	0	0	0	0.13	0.18	0	0	0	0	0	0
8/6/2024 7:20	47403	PENS_T1	1	0	-1	1.8	0	-1.8	0	0	0	0	0	0	0	0
8/6/2024 7:25	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 7:25	60902	DONG_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/6/2024 7:36	60502	NMAN_T2	0	0	0	0	0	0	0.31	0.36	0	0	0	0	0	0
8/6/2024 7:40	53601	DALM_T2	1	1	0	0.2	0.2	0	0.1	0.15	1	1	0	600	600	0
8/6/2024 7:40	45602	WOOL_T1	0	0	0	0	0	0	0.97	0.99	0	0	0	0	0	0
8/6/2024 7:43	55508	HERS_T2	2	2	0	0.9	1.25	0.35	0	0	0	0	0	0	0	0
8/6/2024 7:44	55508	HERS_T2	2	2	0	0.9	1.25	0.35	-2.32	-2.26	1	1	0	1200	1200	0
8/6/2024 7:47	55508	HERS_T2	2	2	0	1.25	0.95	-0.3	-2.32	-2.26	1	1	0	1200	1200	0
8/6/2024 7:55	45502	DERR_T2	3	38	35	0.43	0.48	0.05	0	0	0	0	0	0	0	0
8/6/2024 7:55	45501	DERR_T2	3	2	-1	0.33	0.2	-0.13	0.89	0.92	2	2	0	1800	1800	0
8/6/2024 7:57	44301	BEAV_T2	3	2	-1	1.57	0.5	-1.07	0	0	0	0	0	0	0	0
8/6/2024 7:58	45502	DERR_T2	3	38	35	0.43	0.48	0.05	0	0	0	0	0	0	0	0
8/6/2024 7:58	45501	DERR_T2	3	2	-1	0.33	0.2	-0.13	0.89	0.92	2	2	0	1800	1800	0
8/6/2024 8:00	45501	DERR_T2	2	3	1	0.3	0.3	0	0	0	0	0	0	0	0	0
8/6/2024 8:00	45502	DERR_T2	31	37	6	0.32	0.41	0.09	0.34	0.32	1	1	0	300	300	0
8/6/2024 8:01	63402	HONY_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/6/2024 8:01	63403	HONY_T2	0	0	0	0	0	0	0.33	0.24	1	1	0	600	600	0
8/6/2024 8:03	15603	NSTR_T2	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
8/6/2024 8:03	15602	NSTR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 8:03	15601	NSTR_T2	3	3	0	0.13	0.27	0.14	0	0	0	0	0	0	0	0
8/6/2024 8:04	46102	MACI_T1	0	0	0	0	0	0	0.77	0.77	0	0	0	0	0	0
8/6/2024 8:09	40502	CRES_T2	2	9	7	0.2	0.24	0.04	0.1	-0.8	0	0	0	0	0	0
8/6/2024 8:09	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 8:13	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 8:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 8:15	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 8:21	54201	PENN_T1	3	3	0	1.37	1	-0.37	-0.51	-0.5	0	0	0	0	0	0
8/6/2024 8:21	54203	PENN_T1	18	18	0	0.39	0.33	-0.06	0	0	0	0	0	0	0	0
8/6/2024 8:23	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 8:24	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 8:30	40101	HUNT_T2	13	15	2	0.38	0.6	0.22	-0.27	-0.26	0	0	0	0	0	0
8/6/2024 8:31	46602	LACR_T1	1	1	0	0.4	0.3	-0.1	-0.88	-0.86	0	0	0	0	0	0
8/6/2024 8:36	59101	WALK_T2	1	1	0	1.2	0	-1.2	1.6	1.69	2	2	0	1200	1200	0
8/6/2024 8:39	59101	WALK_T2	1	1	0	1.2	0	-1.2	1.69	1.8	2	2	0	1200	1200	0
8/6/2024 8:42	46204	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 8:42	46206	DANV_T2	52	36	-16	0.52	0.46	-0.06	1.82	1.74	2	2	0	2100	2100	0
8/6/2024 8:50	43202	MVIL_T2	70	41	-29	0.51	0.24	-0.27	-0.35	-0.37	0	0	0	0	0	0
8/6/2024 8:50	58202	NEWV_T1	0	0	0	0	0	0	1.06	0.76	0	0	0	0	0	0
8/6/2024 8:51	43202	MVIL_T2	70	41	-29	0.51	0.24	-0.27	-0.35	-0.37	0	0	0	0	0	0
8/6/2024 8:51	58202	NEWV_T1	0	0	0	0	0	0	1.06	0.76	0	0	0	0	0	0
8/6/2024 8:52	15702	TANN_T2	0	0	0	0	0	0	-0.06	0.01	0	0	0	0	0	0
8/6/2024 8:52	15703	TANN_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
8/6/2024 8:54	20403	ASHF_T2	0	5	5	0	0.25	0.25	1.73	1.81	0	0	0	0	0	0
8/6/2024 8:54	20401	ASHF_T2	4	7	3	1.08	1.24	0.16	0	0	0	0	0	0	0	0
8/6/2024 8:56	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/6/2024 8:56	59101	WALK_T2	1	0	-1	0.4	0	-0.4	1.8	1.47	2	1	-1	1200	600	-600
8/6/2024 8:56	20403	ASHF_T2	0	5	5	0	0.25	0.25	1.73	1.81	0	0	0	0	0	0
8/6/2024 8:56	20401	ASHF_T2	4	7	3	1.08	1.24	0.16	0	0	0	0	0	0	0	0
8/6/2024 8:58	53501	EVIL_T2	1	1	0	0.3	1.4	1.1	-0.02	-0.02	12	12	0	6900	6900	0
8/6/2024 9:00	53903	HALI_T2	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
8/6/2024 9:00	53901	HALI_T2	1	1	0	0.2	0.3	0.1	-1.13	-1.08	0	0	0	0	0	0
8/6/2024 9:00	53902	HALI_T2	1	1	0	4.8	5.2	0.4	0	0	0	0	0	0	0	0
8/6/2024 9:00	55101	WERT_T1	0	0	0	0	0	0	-1.45	-1.36	4	4	0	3300	3300	0
8/6/2024 9:01	63401	HONY_T1	0	0	0	0	0	0	0.39	0.23	1	1	0	600	600	0
8/6/2024 9:01	53902	HALI_T2	1	1	0	4.8	5.2	0.4	0	0	0	0	0	0	0	0
8/6/2024 9:01	53901	HALI_T2	1	1	0	0.2	0.3	0.1	-2.25	-2.16	0	0	0	0	0	0
8/6/2024 9:01	53501	EVIL_T2	1	1	0	1	1.4	0.4	-0.01	-0.01	8	8	0	4600	4600	0
8/6/2024 9:01	53903	HALI_T2	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
8/6/2024 9:02	64302	LINC_T2	4	5	1	0.75	0.95	0.2	1.65	1.61	0	0	0	0	0	0
8/6/2024 9:02	53901	HALI_T2	1	1	0	0.2	0.3	0.1	-1.13	-1.08	0	0	0	0	0	0
8/6/2024 9:02	53903	HALI_T2	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
8/6/2024 9:02	53902	HALI_T2	1	1	0	4.8	5.2	0.4	0	0	0	0	0	0	0	0
8/6/2024 9:03	63401	HONY_T1	0	0	0	0	0	0	0.39	0.23	1	1	0	600	600	0
8/6/2024 9:04	64101	REFR_T1	0	3	3	0	0	0	0.84	0.83	0	0	0	0	0	0
8/6/2024 9:06	41902	REED_T1	0	1	1	0	0.2	0.2	0.51	0.54	1	1	0	900	900	0
8/6/2024 9:06	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 9:06	41903	REED_T1	4	4	0	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
8/6/2024 9:06	56501	ROCK_T2	2	3	1	0.9	0.1	-0.8	-2.31	-2.16	0	0	0	0	0	0
8/6/2024 9:06	64101	REFR_T1	0	3	3	0	0	0	0.41	0.42	0	0	0	0	0	0
8/6/2024 9:07	44202	POIN_T2	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
8/6/2024 9:07	64101	REFR_T1	0	3	3	0	0	0	0.83	0.83	0	0	0	0	0	0
8/6/2024 9:07	44203	POIN_T2	2	4	2	0.2	0.6	0.4	-0.23	0	3	3	0	3300	3300	0
8/6/2024 9:07	46302	ROHR_T1	4	2	-2	1.73	2.45	0.72	0.65	0.66	0	0	0	0	0	0
8/6/2024 9:07	46301	ROHR_T1	92	3	-89	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
8/6/2024 9:08	64101	REFR_T1	0	3	3	0	0	0	0.83	0.83	0	0	0	0	0	0
8/6/2024 9:08	41902	REED_T1	0	1	1	0	0.2	0.2	0.54	0.66	1	1	0	900	900	0
8/6/2024 9:08	41903	REED_T1	4	4	0	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
8/6/2024 9:09	41903	REED_T1	4	4	0	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
8/6/2024 9:09	41902	REED_T1	0	1	1	0	0.2	0.2	0.54	0.66	1	1	0	900	900	0
8/6/2024 9:09	64101	REFR_T1	0	3	3	0	0	0	0.41	0.42	0	0	0	0	0	0
8/6/2024 9:10	44301	BEAV_T2	1	2	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/6/2024 9:13	53501	EVIL_T2	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
8/6/2024 9:13	53502	EVIL_T2	0	0	0	0	0	0	-0.29	-0.26	3	3	0	2100	2100	0
8/6/2024 9:17	50505	MECH_T1	0	0	0	0	0	0	-1.75	-1.74	0	0	0	0	0	0
8/6/2024 9:17	64203	KINZ_T1	1	4	3	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
8/6/2024 9:17	64202	KINZ_T1	2	1	-1	0.55	0.6	0.05	0	0	0	0	0	0	0	0
8/6/2024 9:17	64204	KINZ_T1	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0	0
8/6/2024 9:17	64201	KINZ_T1	0	0	0	0	0	0	-0.84	-0.88	5	5	0	3300	3300	0
8/6/2024 9:17	43202	MVIL_T2	4	1	-3	0.23	0.4	0.17	-0.38	-0.39	0	0	0	0	0	0
8/6/2024 9:17	50501	MECH_T1	4	4	0	0.33	0.43	0.1	0	0	0	0	0	0	0	0
8/6/2024 9:17	50502	MECH_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
8/6/2024 9:17	45802	HEGI_T2	1	16	15	0.1	0.44	0.34	1.29	0.94	2	4	2	1800	2400	600
8/6/2024 9:17	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 9:18	43202	MVIL_T2	4	1	-3	0.23	0.4	0.17	-0.38	-0.39	0	0	0	0	0	0
8/6/2024 9:18	64203	KINZ_T1	1	4	3	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
8/6/2024 9:18	64201	KINZ_T1	0	0	0	0	0	0	-0.84	-0.88	5	5	0	3300	3300	0
8/6/2024 9:18	64204	KINZ_T1	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0	0
8/6/2024 9:18	64202	KINZ_T1	2	1	-1	0.55	0.6	0.05	0	0	0	0	0	0	0	0
8/6/2024 9:19	60502	NMAN_T2	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
8/6/2024 9:22	43202	MVIL_T2	4	1	-3	0.23	0.4	0.17	-0.39	-0.36	0	0	0	0	0	0
8/6/2024 9:23	41903	REED_T1	4	4	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/6/2024 9:23	61102	BERK_T5	0	0	0	0	0	0	1.07	0.8	1	1	0	300	300	0
8/6/2024 9:23	41902	REED_T1	1	1	0	0.3	0.2	-0.1	0.66	0.62	1	1	0	900	900	0
8/6/2024 9:24	61102	BERK_T5	0	0	0	0	0	0	1.07	0.8	1	1	0	300	300	0
8/6/2024 9:25	44301	BEAV_T2	0	3	3	0	1.25	1.25	0	0	0	0	0	0	0	0
8/6/2024 9:25	61102	BERK_T5	0	0	0	0	0	0	2.15	1.6	2	2	0	600	600	0
8/6/2024 9:26	67605	WARW_T1	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
8/6/2024 9:26	61102	BERK_T5	0	0	0	0	0	0	1.07	0.8	1	1	0	300	300	0
8/6/2024 9:27	43108	SMIL_T2	1	1	0	0.3	0.4	0.1	-0.66	-0.71	1	1	0	1200	1200	0
8/6/2024 9:27	67605	WARW_T1	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
8/6/2024 9:27	43105	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/6/2024 9:29	41304	FISH_T2	1	2	1	0	0	0	-0.26	-0.21	0	0	0	0	0	0
8/6/2024 9:29	41302	FISH_T2	12	16	4	1.14	2.41	1.27	0	0	0	0	0	0	0	0
8/6/2024 9:30	53601	DALM_T2	1	0	-1	0.2	0	-0.2	-0.79	-0.77	2	2	0	1500	1500	0
8/6/2024 9:31	13503	MCMI_T2	0	8	8	0	0.4	0.4	0.17	-0.68	0	0	0	0	0	0
8/6/2024 9:32	47901	HRDG_T1	0	0	0	0	0	0	1.74	0.67	0	1	1	0	1200	1200
8/6/2024 9:32	13503	MCMI_T2	0	8	8	0	0.4	0.4	0.17	-0.68	0	0	0	0	0	0
8/6/2024 9:33	13503	MCMI_T2	0	8	8	0	0.4	0.4	0.17	-0.68	0	0	0	0	0	0
8/6/2024 9:34	47401	PENS_T1	0	3	3	0	0.35	0.35	0.44	0.45	0	0	0	0	0	0
8/6/2024 9:34	42201	SHEN_T2	0	0	0	0	0	0	0.16	0.22	1	1	0	600	600	0
8/6/2024 9:34	47403	PENS_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
8/6/2024 9:38	55101	WERT_T1	0	0	0	0	0	0	-1.78	-1.87	4	4	0	3300	3300	0
8/6/2024 9:38	55002	NEWP_T1	2	3	1	0.45	0.63	0.18	0	0	0	0	0	0	0	0
8/6/2024 9:38	55001	NEWP_T1	0	0	0	0	0	0	-0.78	-0.77	2	2	0	1200	1200	0
8/6/2024 9:39	20401	ASHF_T2	7	5	-2	1.83	1.08	-0.75	0	0.36	0	0	0	0	0	0
8/6/2024 9:39	20403	ASHF_T2	9	9	0	0.24	0.22	-0.02	1.8	0.84	0	0	0	0	0	0
8/6/2024 9:39	66703	STRA_T1	0	0	0	0	0	0	-0.29	-0.22	0	0	0	0	0	0
8/6/2024 9:40	53601	DALM_T2	1	0	-1	0.2	0	-0.2	-0.77	-0.71	2	2	0	1500	1500	0
8/6/2024 9:41	20403	ASHF_T2	9	9	0	0.24	0.22	-0.02	1.8	0.84	0	0	0	0	0	0
8/6/2024 9:41	20401	ASHF_T2	7	5	-2	1.83	1.08	-0.75	0	0	0	0	0	0	0	0
8/6/2024 9:43	45501	DERR_T2	2	3	1	1	0.97	-0.03	0	0	0	0	0	0	0	0
8/6/2024 9:43	45502	DERR_T2	25	69	44	0.41	0.5	0.09	0.37	0.32	1	1	0	300	300	0
8/6/2024 9:45	46204	DANV_T2	14	3	-11	0.34	0	-0.34	0	0	0	0	0	0	0	0
8/6/2024 9:45	46203	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 9:45	46206	DANV_T2	74	60	-14	0.77	0.54	-0.23	1.85	1.91	2	2	0	2100	2100	0
8/6/2024 9:48	40101	HUNT_T2	72	210	138	0.48	0.42	-0.06	-0.44	-0.18	0	0	0	0	0	0
8/6/2024 9:48	16402	MOPO_T1	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
8/6/2024 9:50	57002	WHHI_T2	0	0	0	0	0	0	-1.58	-1.54	1	1	0	1200	1200	0
8/6/2024 9:54	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/6/2024 9:57	29402	BELT_T1	2	1	-1	4.6	8.5	3.9	0	0	0	0	0	0	0	0
8/6/2024 9:57	29401	BELT_T1	4	0	-4	0.13	0	-0.13	0	0	1	1	0	900	900	0
8/6/2024 9:58	64305	LINC_T1	2	1	-1	0.8	1.4	0.6	0.36	0.41	0	0	0	0	0	0
8/6/2024 9:59	22903	HARW_T1	11	21	10	0.57	0.7	0.13	0	0	0	0	0	0	0	0
8/6/2024 9:59	22901	HARW_T1	5	5	0	0.1	0.14	0.04	0.09	0.14	1	1	0	1200	1200	0
8/6/2024 10:00	54201	PENN_T1	3	3	0	0.73	0.7	-0.03	-0.27	-0.33	0	0	0	0	0	0
8/6/2024 10:00	58202	NEWV_T1	0	0	0	0	0	0	1.79	1.61	0	0	0	0	0	0
8/6/2024 10:00	55002	NEWP_T1	3	3	0	0.63	0.57	-0.06	0	0	0	0	0	0	0	0
8/6/2024 10:00	15603	NSTR_T2	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
8/6/2024 10:00	52404	GRPA_T2	1	4	3	0.1	0	-0.1	0.97	1.19	0	0	0	0	0	0
8/6/2024 10:00	64202	KINZ_T1	1	1	0	1.8	0.6	-1.2	0	0	0	0	0	0	0	0
8/6/2024 10:00	52403	GRPA_T2	6	4	-2	0.58	0.9	0.32	0	0	0	0	0	0	0	0
8/6/2024 10:00	42801	SELI_T1	0	0	0	0	0	0	0	-0.07	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/6/2024 10:00	52401	GRPA_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/6/2024 10:00	64204	KINZ_T1	1	2	1	1.5	0.45	-1.05	0	0	0	0	0	0	0	0
8/6/2024 10:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 10:00	40504	CRES_T1	5	12	7	0.34	0.47	0.13	0	0	0	0	0	0	0	0
8/6/2024 10:00	54203	PENN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/6/2024 10:00	55001	NEWP_T1	0	1	1	0	0	0	-0.77	-0.62	2	2	0	1200	1200	0
8/6/2024 10:00	40505	CRES_T1	5	5	0	1.3	1.5	0.2	0.84	0.86	0	0	0	0	0	0
8/6/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	0.64	0.7	0	0	0	0	0	0
8/6/2024 10:00	41903	REED_T1	4	4	0	0.73	0.68	-0.05	0	0	0	0	0	0	0	0
8/6/2024 10:00	13503	MCMI_T2	7	4	-3	0.44	0.5	0.06	-2.07	-1.95	0	0	0	0	0	0
8/6/2024 10:00	41902	REED_T1	3	4	1	0.4	0.28	-0.12	0.6	0.6	1	1	0	900	900	0
8/6/2024 10:00	64201	KINZ_T1	0	0	0	0	0	0	-1.19	-1.07	5	5	0	3300	3300	0
8/6/2024 10:00	64203	KINZ_T1	2	2	0	1.15	1.55	0.4	0	0	0	0	0	0	0	0
8/6/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
8/6/2024 10:00	57002	WHHI_T2	0	0	0	0	0	0	-1.54	-1.5	1	1	0	1200	1200	0
8/6/2024 10:07	41903	REED_T1	4	4	0	0.73	0.68	-0.05	0	0	0	0	0	0	0	0
8/6/2024 10:07	47401	PENS_T1	2	2	0	0.65	0.25	-0.4	0.65	0.62	0	0	0	0	0	0
8/6/2024 10:07	41902	REED_T1	3	4	1	0.4	0.28	-0.12	0.6	0.67	1	1	0	900	900	0
8/6/2024 10:07	47403	PENS_T1	1	1	0	2.2	0.1	-2.1	0	0	0	0	0	0	0	0
8/6/2024 10:08	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 10:08	67503	WEWI_T2	1	2	1	4.4	3.9	-0.5	0.62	0.64	0	0	0	0	0	0
8/6/2024 10:09	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 10:09	41902	REED_T1	3	4	1	0.4	0.28	-0.12	0.6	0.67	1	1	0	900	900	0
8/6/2024 10:09	67605	WARW_T1	0	0	0	0	0	0	-0.8	-0.77	0	0	0	0	0	0
8/6/2024 10:09	40201	BEGA_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/6/2024 10:09	41903	REED_T1	4	4	0	0.73	0.68	-0.05	0	0	0	0	0	0	0	0
8/6/2024 10:09	59101	WALK_T2	1	1	0	0.4	0.3	-0.1	1.22	1.25	3	3	0	1800	1800	0
8/6/2024 10:09	20401	ASHF_T2	4	4	0	1.48	1.23	-0.25	0	0	0	0	0	0	0	0
8/6/2024 10:09	20403	ASHF_T2	5	0	-5	0.22	0	-0.22	0.5	0.6	0	0	0	0	0	0
8/6/2024 10:10	20401	ASHF_T2	4	4	0	1.48	1.23	-0.25	0	0	0	0	0	0	0	0
8/6/2024 10:10	59101	WALK_T2	1	1	0	0.4	0.3	-0.1	1.22	1.25	3	3	0	1800	1800	0
8/6/2024 10:10	47403	PENS_T1	1	1	0	2.2	0.1	-2.1	0	0	0	0	0	0	0	0
8/6/2024 10:10	42302	MOWR_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
8/6/2024 10:10	20403	ASHF_T2	5	0	-5	0.22	0	-0.22	0.5	0.6	0	0	0	0	0	0
8/6/2024 10:10	67605	WARW_T1	0	0	0	0	0	0	-0.8	-0.77	0	0	0	0	0	0
8/6/2024 10:10	47401	PENS_T1	2	2	0	0.65	0.25	-0.4	0.65	0.62	0	0	0	0	0	0
8/6/2024 10:11	40201	BEGA_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/6/2024 10:11	59101	WALK_T2	1	1	0	0.4	0.3	-0.1	1.22	1.25	3	3	0	1800	1800	0
8/6/2024 10:11	45502	DERR_T2	65	96	31	0.43	0.59	0.16	0.32	0.29	1	1	0	300	300	0
8/6/2024 10:11	45501	DERR_T2	3	11	8	1.03	0.5	-0.53	0	0	0	0	0	0	0	0
8/6/2024 10:13	61301	EARL_T1	0	0	0	0	0	0	-0.79	-0.78	2	2	0	1800	1800	0
8/6/2024 10:13	67605	WARW_T1	0	0	0	0	0	0	-0.8	-0.77	0	0	0	0	0	0
8/6/2024 10:13	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 10:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 10:14	63304	GREE_T1	0	0	0	0	0	0	-4.3	-3.84	0	0	0	0	0	0
8/6/2024 10:14	45501	DERR_T2	3	11	8	1.03	0.5	-0.53	2.22	2.23	4	4	0	3600	3600	0
8/6/2024 10:14	64305	LINC_T1	1	1	0	1.4	1.1	-0.3	0.41	-0.5	0	0	0	0	0	0
8/6/2024 10:14	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 10:14	53501	EVIL_T2	1	1	0	0.4	0.8	0.4	-0.01	-0.01	4	4	0	2300	2300	0
8/6/2024 10:14	45502	DERR_T2	65	96	31	0.43	0.59	0.16	0	0	0	0	0	0	0	0
8/6/2024 10:15	45502	DERR_T2	92	15	-77	0.54	0.41	-0.13	0.32	0.29	1	1	0	300	300	0
8/6/2024 10:15	53502	EVIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/6/2024 10:15	64202	KINZ_T1	1	1	0	2.6	0.2	-2.4	0	0	0	0	0	0	0	0
8/6/2024 10:15	64203	KINZ_T1	2	2	0	1.55	2.15	0.6	0	0	0	0	0	0	0	0
8/6/2024 10:15	64201	KINZ_T1	0	1	1	0	0	0	-1.07	-1.15	5	5	0	3300	3300	0
8/6/2024 10:15	45501	DERR_T2	11	8	-3	0.59	0.43	-0.16	0	0	0	0	0	0	0	0
8/6/2024 10:15	20601	GRWO_T2	151	222	71	0.89	0.79	-0.1	0.67	0.68	1	1	0	1200	1200	0
8/6/2024 10:15	64204	KINZ_T1	2	2	0	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
8/6/2024 10:15	52004	LING_T2	2	2	0	4.45	4.2	-0.25	0	0	0	0	0	0	0	0
8/6/2024 10:15	52002	LING_T2	6	13	7	0.38	0.3	-0.08	1.36	1.4	0	0	0	0	0	0
8/6/2024 10:15	53501	EVIL_T2	1	3	2	0.8	0	-0.8	-0.01	-0.01	4	4	0	2300	2300	0
8/6/2024 10:16	64202	KINZ_T1	1	1	0	2.6	0.2	-2.4	0	0	0	0	0	0	0	0
8/6/2024 10:16	53501	EVIL_T2	1	3	2	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/6/2024 10:16	64201	KINZ_T1	0	1	1	0	0	0	-1.07	-1.15	5	5	0	3300	3300	0
8/6/2024 10:16	64203	KINZ_T1	2	2	0	1.55	2.15	0.6	0	0	0	0	0	0	0	0
8/6/2024 10:16	53502	EVIL_T2	0	1	1	0	0.5	0.5	-0.44	-0.06	3	3	0	2100	2100	0
8/6/2024 10:16	64302	LINC_T2	5	2	-3	1.02	0.75	-0.27	1.83	1.03	0	0	0	0	0	0
8/6/2024 10:16	64204	KINZ_T1	2	2	0	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
8/6/2024 10:17	20601	GRWO_T2	151	222	71	0.89	0.79	-0.1	0.67	0.68	1	1	0	1200	1200	0
8/6/2024 10:17	53501	EVIL_T2	1	3	2	0.8	0	-0.8	-0.02	-0.02	12	12	0	6900	6900	0
8/6/2024 10:17	46501	LOHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 10:17	46506	LOHA_T1	0	0	0	0	0	0	-1.73	-1.69	2	2	0	2100	2100	0
8/6/2024 10:17	53502	EVIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/6/2024 10:18	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 10:19	57702	PAXT_T1	0	0	0	0	0	0	-0.28	-0.24	0	0	0	0	0	0
8/6/2024 10:19	16402	MOPO_T1	0	1	1	0	0	0	0.46	0.52	0	0	0	0	0	0
8/6/2024 10:19	56501	ROCK_T2	1	9	8	1.3	0.35	-0.95	-1.1	-1.11	0	0	0	0	0	0
8/6/2024 10:20	46506	LOHA_T1	0	0	0	0	0	0	-3.45	-3.39	4	4	0	4200	4200	0
8/6/2024 10:20	56501	ROCK_T2	1	9	8	1.3	0.35	-0.95	-0.55	-0.56	0	0	0	0	0	0
8/6/2024 10:20	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 10:20	64802	MONE_T2	0	1	1	0	0	0	0.35	0.38	0	0	0	0	0	0
8/6/2024 10:20	16402	MOPO_T1	0	1	1	0	0	0	0.46	0.52	0	0	0	0	0	0
8/6/2024 10:20	64801	MONE_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 10:20	46501	LOHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 10:20	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 10:21	64101	REFR_T1	3	9	6	0.73	1.3	0.57	0.56	0.57	0	0	0	0	0	0
8/6/2024 10:21	46302	ROHR_T1	4	4	0	1.13	1.48	0.35	0.66	0.69	0	0	0	0	0	0
8/6/2024 10:21	46301	ROHR_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
8/6/2024 10:22	64101	REFR_T1	3	9	6	0.73	1.3	0.57	1.12	1.13	0	0	0	0	0	0
8/6/2024 10:23	44301	BEAV_T2	1	2	1	1.4	2	0.6	0	0	0	0	0	0	0	0
8/6/2024 10:23	64101	REFR_T1	3	9	6	0.73	1.3	0.57	1.12	1.13	0	0	0	0	0	0
8/6/2024 10:24	42201	SHEN_T2	0	0	0	0	0	0	0.26	0.28	1	1	0	600	600	0
8/6/2024 10:25	64101	REFR_T1	3	9	6	0.73	1.3	0.57	1.12	1.13	0	0	0	0	0	0
8/6/2024 10:25	55101	WERT_T1	0	3	3	0	0	0	-1.7	-1.56	4	4	0	3300	3300	0
8/6/2024 10:26	55101	WERT_T1	0	3	3	0	0	0	-5.09	-4.67	12	12	0	9900	9900	0
8/6/2024 10:27	53601	DALM_T2	1	1	0	0.6	0.2	-0.4	-0.68	-0.64	2	2	0	1500	1500	0
8/6/2024 10:28	22901	HARW_T1	5	6	1	0.14	0	-0.14	0	0	0	0	0	0	0	0
8/6/2024 10:28	22903	HARW_T1	21	21	0	0.7	1.1	0.4	-0.38	-0.24	0	0	0	0	0	0
8/6/2024 10:29	53502	EVIL_T2	0	1	1	0	0.5	0.5	-0.06	0.03	3	3	0	2100	2100	0
8/6/2024 10:29	53501	EVIL_T2	1	3	2	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/6/2024 10:30	53502	EVIL_T2	1	8	7	0.7	0.2	-0.06	0.03	3	3	0	0	2100	2100	0
8/6/2024 10:30	64301	LINC_T1	0	0	0	0	0	0	0.44	-0.37	1	1	0	600	600	0
8/6/2024 10:30	45802	HEGI_T2	0	23	23	0	0.35	0.35	0.71	0.72	2	2	0	1200	1200	0
8/6/2024 10:30	64305	LINC_T1	1	2	1	1.1	1.3	0.2	0	0	0	0	0	0	0	0
8/6/2024 10:30	53501	EVIL_T2	0	31	31	0	0.4	0.4	0	0	0	0	0	0	0	0
8/6/2024 10:31	63501	HEID_TBK1-2	49	49	0	2.02	1.66	-0.36	0.9	1.01	1	1	0	900	900	0
8/6/2024 10:31	45802	HEGI_T2	0	23	23	0	0.35	0.35	0.71	0.72	2	2	0	1200	1200	0
8/6/2024 10:32	63501	HEID_TBK1-2	49	49	0	2.02	1.66	-0.36	0.9	1.01	1	1	0	900	900	0
8/6/2024 10:33	63501	HEID_TBK1-2	49	49	0	2.02	1.66	-0.36	0.9	1.01	1	1	0	900	900	0
8/6/2024 10:33	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 10:35	56501	ROCK_T2	1	9	8	0.3	0.35	0.05	-0.56	-1.73	0	0	0	0	0	0
8/6/2024 10:35	54201	PENN_T1	3	3	0	0.7	0.57	-0.13	-0.32	-0.3	0	0	0	0	0	0
8/6/2024 10:35	40602	PIGR_T1	1	1	0	0.9	1	0.1	0.36	0.46	0	0	0	0	0	0
8/6/2024 10:35	54203	PENN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 10:35	43105	SMIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/6/2024 10:35	43108	SMIL_T2	0	0	0	0	0	0	-0.86	-0.84	1	1	0	1200	1200	0
8/6/2024 10:35	43103	SMIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/6/2024 10:35	40601	PIGR_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/6/2024 10:36	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 10:36	44203	POIN_T2	5	5	0	1.28	0.6	-0.68	-0.01	-0.07	3	3	0	3300	3300	0
8/6/2024 10:36	56501	ROCK_T2	1	9	8	0.3	0.35	0.05	-1.11	-3.47	0	0	0	0	0	0
8/6/2024 10:37	42201	SHEN_T2	0	0	0	0	0	0	0.28	0.27	1	1	0	600	600	0
8/6/2024 10:38	56501	ROCK_T2	1	9	8	0.3	0.35	0.05	-1.73	-1.66	0	0	0	0	0	0
8/6/2024 10:38	55101	WERT_T1	0	3	3	0	0	0	-1.56	-1.76	4	4	0	3300	3300	0
8/6/2024 10:39	64101	REFR_T1	9	11	2	0.68	1.3	0.62	0.57	0.58	0	0	0	0	0	0
8/6/2024 10:39	20401	ASHF_T2	4	6	2	1.33	1.48	0.15	0	0	0	0	0	0	0	0
8/6/2024 10:39	56501	ROCK_T2	1	9	8	0.3	0.35	0.05	-3.47	-3.32	0	0	0	0	0	0
8/6/2024 10:39	20402	ASHF_T2	0	5	5	0	0.15	0.15	0	0	0	0	0	0	0	0
8/6/2024 10:39	20403	ASHF_T2	0	13	13	0	0.5	0.5	1.45	1.88	0	0	0	0	0	0
8/6/2024 10:41	20403	ASHF_T2	0	13	13	0	0.5	0.5	0.73	0.94	0	0	0	0	0	0
8/6/2024 10:41	43105	SMIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/6/2024 10:41	20402	ASHF_T2	0	5	5	0	0.15	0.15	0	0	0	0	0	0	0	0
8/6/2024 10:41	44801	EDAN_T2	1	4	3	0.9	0.6	-0.3	-1.15	-1.18	0	0	0	0	0	0
8/6/2024 10:41	43103	SMIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/6/2024 10:41	43108	SMIL_T2	0	0	0	0	0	0	-0.84	-0.81	1	1	0	1200	1200	0
8/6/2024 10:41	20401	ASHF_T2	4	6	2	1.33	1.48	0.15	0	0	0	0	0	0	0	0
8/6/2024 10:42	29402	BELT_T1	1	2	1	8	4.25	-3.75	0	0	0	0	0	0	0	0
8/6/2024 10:42	46203	DANV_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/6/2024 10:42	46206	DANV_T2	45	51	6	0.58	0.5	-0.08	1.95	1.95	2	2	0	2100	2100	0
8/6/2024 10:42	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	900	900	0
8/6/2024 10:42	46204	DANV_T2	0	16	16	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 10:43	46206	DANV_T2	45	51	6	0.58	0.5	-0.08	1.95	1.95	2	2	0	2100	2100	0
8/6/2024 10:43	56501	ROCK_T2	1	9	8	0.3	0.35	0.05	-1.73	-1.66	0	0	0	0	0	0
8/6/2024 10:43	46204	DANV_T2	0	16	16	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 10:43	44801	EDAN_T2	1	4	3	0.9	0.6	-0.3	-2.31	-2.36	0	0	0	0	0	0
8/6/2024 10:43	46203	DANV_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/6/2024 10:44	46204	DANV_T2	0	16	16	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 10:44	29402	BELT_T1	1	2	1	8	4.25	-3.75	0	0	0	0	0	0	0	0
8/6/2024 10:44	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	900	900	0
8/6/2024 10:44	46206	DANV_T2	45	51	6	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
8/6/2024 10:44	46203	DANV_T2	1	0	-1	0.4	0	-0.4	-1.34	-1.33	0	0	0	0	0	0
8/6/2024 10:45	25503	MADI_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
8/6/2024 10:45	21705	SUBU_T1	1	1	0	6.5	6.3	-0.2	0.29	0.25	1	1	0	1200	1200	0
8/6/2024 10:45	46602	LACR_T1	1	1	0	0.8	1.1	0.3	-1.18	-1.17	0	0	0	0	0	0
8/6/2024 10:45	21701	SUBU_T1	1	1	0	7	7.2	0.2	0	0	0	0	0	0	0	0
8/6/2024 10:46	22903	HARW_T1	21	23	2	1.3	1.58	0.28	0	0	0	0	0	0	0	0
8/6/2024 10:46	22901	HARW_T1	6	6	0	0.17	0	-0.17	0.05	0.15	1	1	0	1200	1200	0
8/6/2024 10:47	42901	MIDD_T2	2	6	4	0.45	0.63	0.18	0	0	0	0	0	0	0	0
8/6/2024 10:47	42902	MIDD_T2	4	9	5	1.23	0.89	-0.34	0	0	0	0	0	0	0	0
8/6/2024 10:47	52004	LING_T2	2	2	0	4.15	4.55	0.4	0	0	0	0	0	0	0	0
8/6/2024 10:47	21206	ECAR_T2	1	1	0	7.2	7.3	0.1	0.71	0.7	0	0	0	0	0	0
8/6/2024 10:47	52002	LING_T2	13	0	-13	0.21	0	-0.21	0.76	-0.03	0	1	1	0	900	900
8/6/2024 10:47	42903	MIDD_T2	2	12	10	0.5	0.62	0.12	2.5	2.61	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/6/2024 10:47	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 10:48	52004	LING_T2	2	2	0	4.15	4.55	0.4	0	0	0	0	0	0	0	0
8/6/2024 10:48	52002	LING_T2	13	0	-13	0.21	0	-0.21	0.76	-0.03	0	1	1	0	900	900
8/6/2024 10:48	43401	BENT_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/6/2024 10:48	43402	BENT_T1	0	1	1	0	0	0	-0.43	-0.45	1	1	0	900	900	0
8/6/2024 10:49	43401	BENT_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/6/2024 10:49	63403	HONY_T2	0	0	0	0	0	0	-0.59	-0.75	1	1	0	600	600	0
8/6/2024 10:49	43402	BENT_T1	0	1	1	0	0	0	-0.43	-0.45	1	1	0	900	900	0
8/6/2024 10:51	64902	MILL_T2	0	0	0	0	0	0	-0.45	-0.39	1	1	0	900	900	0
8/6/2024 10:52	49803	UNIV_T1	1	1	0	6.3	6.5	0.2	-1.53	-1.5	0	0	0	0	0	0
8/6/2024 10:53	42601	TUSC_T1	0	1	1	0	0	0	-1.18	-1.05	2	2	0	1800	1800	0
8/6/2024 10:53	42802	SELI_T1	0	0	0	0	0	0	-4.26	-4.35	4	4	0	3600	3600	0
8/6/2024 10:53	42701	AUGU_T1	0	3	3	0	0	0	0	0	2	2	0	1800	1800	0
8/6/2024 10:54	56504	ROCK_T2	0	0	0	0	0	0	-0.52	-0.46	0	0	0	0	0	0
8/6/2024 10:54	42802	SELI_T1	0	0	0	0	0	0	-1.07	-1.09	1	1	0	900	900	0
8/6/2024 10:54	56501	ROCK_T2	8	6	-2	0.35	0.37	0.02	0	0	0	0	0	0	0	0
8/6/2024 10:54	47403	PENS_T1	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
8/6/2024 10:54	42601	TUSC_T1	0	1	1	0	0	-1.18	-1.05	2	2	0	1800	1800	0
8/6/2024 10:54	47401	PENS_T1	0	2	2	0	0.65	0.65	0.65	0.55	0	0	0	0	0	0
8/6/2024 10:55	47403	PENS_T1	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
8/6/2024 10:55	42701	AUGU_T1	0	3	3	0	0	0	0	0	2	2	0	1800	1800	0
8/6/2024 10:55	47401	PENS_T1	0	2	2	0	0.65	0.65	0.65	0.55	0	0	0	0	0	0
8/6/2024 10:55	42802	SELI_T1	0	0	0	0	0	0	-1.07	-1.09	1	1	0	900	900	0
8/6/2024 10:56	61102	BERK_T5	0	0	0	0	0	0	1.39	1.39	1	1	0	300	300	0
8/6/2024 10:57	47401	PENS_T1	0	2	2	0	0.65	0.65	0.65	0.55	0	0	0	0	0	0
8/6/2024 10:57	47403	PENS_T1	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
8/6/2024 10:57	61102	BERK_T5	0	0	0	0	0	0	1.39	1.39	1	1	0	300	300	0
8/6/2024 11:01	47101	MARL_T1	28	97	69	0.79	0.74	-0.05	-0.58	-0.41	1	1	0	600	600	0
8/6/2024 11:02	52401	GRPA_T2	18	23	5	0.52	0.44	-0.08	0	0	0	0	0	0	0	0
8/6/2024 11:02	52402	GRPA_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
8/6/2024 11:02	52403	GRPA_T2	12	26	14	0.73	0.69	-0.04	-0.06	-0.02	0	0	0	0	0	0
8/6/2024 11:03	47101	MARL_T1	28	97	69	0.79	0.74	-0.05	-0.58	-0.41	1	1	0	600	600	0
8/6/2024 11:04	41801	GOOS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 11:04	61102	BERK_T5	0	0	0	0	0	0	1.39	1.39	1	1	0	300	300	0
8/6/2024 11:06	56504	ROCK_T2	0	0	0	0	0	0	-1.03	-0.92	0	0	0	0	0	0
8/6/2024 11:06	56501	ROCK_T2	5	5	0	0.42	0.3	-0.12	0	0	0	0	0	0	0	0
8/6/2024 11:07	56501	ROCK_T2	5	5	0	0.42	0.3	-0.12	0	0	0	0	0	0	0	0
8/6/2024 11:07	15603	NSTR_T2	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
8/6/2024 11:07	44202	POIN_T2	0	1	1	0	0	0	-0.69	-0.65	2	2	0	1800	1800	0
8/6/2024 11:07	56504	ROCK_T2	0	0	0	0	0	0	-0.46	-0.42	0	0	0	0	0	0
8/6/2024 11:07	44203	POIN_T2	5	5	0	0.88	1.04	0.16	0	0	0	0	0	0	0	0
8/6/2024 11:08	42601	TUSC_T1	0	1	1	0	0	0	-1.05	-0.95	2	2	0	1800	1800	0
8/6/2024 11:09	56504	ROCK_T2	0	0	0	0	0	0	-0.46	-0.42	0	0	0	0	0	0
8/6/2024 11:09	44301	BEAV_T2	4	5	1	0.65	1.4	0.75	0.49	0.44	2	2	0	1500	1500	0
8/6/2024 11:09	42601	TUSC_T1	0	1	1	0	0	0	-1.05	-0.95	2	2	0	1800	1800	0
8/6/2024 11:09	56501	ROCK_T2	5	5	0	0.42	0.3	-0.12	0	0	0	0	0	0	0	0
8/6/2024 11:10	56504	ROCK_T2	0	0	0	0	0	0	-0.46	-0.42	0	0	0	0	0	0
8/6/2024 11:10	56501	ROCK_T2	5	5	0	0.42	0.3	-0.12	0	0	0	0	0	0	0	0
8/6/2024 11:10	44301	BEAV_T2	4	5	1	0.65	1.4	0.75	0	0	0	0	0	0	0	0
8/6/2024 11:12	44301	BEAV_T2	4	5	1	0.65	1.4	0.75	0.49	0.44	2	2	0	1500	1500	0
8/6/2024 11:17	42903	MIDD_T2	8	4	-4	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/6/2024 11:17	42901	MIDD_T2	6	2	-4	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/6/2024 11:17	58402	MORO_T1	2	9	7	0.65	0.77	0.12	0	0	0	0	0	0	0	0
8/6/2024 11:17	58401	MORO_T1	0	0	0	0	0	0	-0.97	-0.92	2	2	0	1500	1500	0
8/6/2024 11:17	42902	MIDD_T2	8	3	-5	0.95	1.03	0.08	-0.08	-0.05	1	1	0	600	600	0
8/6/2024 11:17	15603	NSTR_T2	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
8/6/2024 11:17	47101	MARL_T1	92	99	7	0.73	0.76	0.03	-0.41	-0.55	1	1	0	600	600	0
8/6/2024 11:18	64203	KINZ_T1	7	3	-4	0.89	1.43	0.54	0.66	0.68	3	3	0	2100	2100	0
8/6/2024 11:18	58402	MORO_T1	2	9	7	0.65	0.77	0.12	0	0	0	0	0	0	0	0
8/6/2024 11:18	58401	MORO_T1	0	0	0	0	0	0	-0.97	-0.92	2	2	0	1500	1500	0
8/6/2024 11:18	64201	KINZ_T1	12	15	3	0.52	0.37	-0.15	0	0	0	0	0	0	0	0
8/6/2024 11:18	44301	BEAV_T2	5	3	-2	0.54	0.63	0.09	0.49	0.44	2	2	0	1500	1500	0
8/6/2024 11:18	42902	MIDD_T2	8	3	-5	0.95	1.03	0.08	-0.15	-0.1	2	2	0	1200	1200	0
8/6/2024 11:18	64204	KINZ_T1	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
8/6/2024 11:18	42903	MIDD_T2	8	4	-4	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/6/2024 11:18	42901	MIDD_T2	6	2	-4	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/6/2024 11:19	42901	MIDD_T2	6	2	-4	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/6/2024 11:19	47101	MARL_T1	92	99	7	0.73	0.76	0.03	-0.41	-0.55	1	1	0	600	600	0
8/6/2024 11:19	42903	MIDD_T2	8	4	-4	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/6/2024 11:19	42902	MIDD_T2	8	3	-5	0.95	1.03	0.08	-0.08	-0.05	1	1	0	600	600	0
8/6/2024 11:20	47101	MARL_T1	92	99	7	0.73	0.76	0.03	-0.41	-0.55	1	1	0	600	600	0
8/6/2024 11:24	20402	ASHF_T2	6	11	5	0.78	0	-0.78	0	0	0	0	0	0	0	0
8/6/2024 11:24	20401	ASHF_T2	5	5	0	1.86	1.8	-0.06	0	0	0	0	0	0	0	0
8/6/2024 11:24	20403	ASHF_T2	8	29	21	0.34	0.28	-0.06	1.14	1.19	0	0	0	0	0	0
8/6/2024 11:24	41903	REED_T1	4	4	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
8/6/2024 11:24	41902	REED_T1	9	17	8	0.49	0.56	0.07	0.72	0.7	1	1	0	900	900	0
8/6/2024 11:25	44301	BEAV_T2	5	3	-2	0.54	0.63	0.09	0.44	0.33	2	2	0	1500	1500	0
8/6/2024 11:26	20401	ASHF_T2	5	5	0	1.86	1.8	-0.06	0	0	0	0	0	0	0	0
8/6/2024 11:26	20403	ASHF_T2	8	29	21	0.34	0.28	-0.06	1.14	1.19	0	0	0	0	0	0
8/6/2024 11:26	20402	ASHF_T2	6	11	5	0.78	0	-0.78	0	0	0	0	0	0	0	0
8/6/2024 11:26	44301	BEAV_T2	5	3	-2	0.54	0.63	0.09	0	0	0	0	0	0	0	0
8/6/2024 11:28	53502	EVIL_T2	6	17	11	0.67	0.4	-0.27	0	0	0	0	0	0	0	0
8/6/2024 11:28	44301	BEAV_T2	5	3	-2	0.54	0.63	0.09	0	0	0	0	0	0	0	0
8/6/2024 11:28	53501	EVIL_T2	84	107	23	0.45	0.46	0.01	-0.01	-0.01	4	4	0	2300	2300	0
8/6/2024 11:29	47001	HUGH_T2	3	3	0	7.03	7.67	0.64	-0.76	-0.7	1	1	0	900	900	0
8/6/2024 11:30	53502	EVIL_T2	16	19	3	0.53	0.42	-0.11	0.14	-0.01	3	3	0	2100	2100	0
8/6/2024 11:30	53501	EVIL_T2	43	102	59	0.51	0.38	-0.13	0	0	0	0	0	0	0	0
8/6/2024 11:31	52006	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 11:31	52002	LING_T2	3	8	5	0.23	0.15	-0.08	0.04	0.11	1	1	0	900	900	0
8/6/2024 11:31	52004	LING_T2	2	2	0	4.25	4.3	0.05	0	0	0	0	0	0	0	0
8/6/2024 11:32	52002	LING_T2	3	8	5	0.23	0.15	-0.08	0.04	0.11	1	1	0	900	900	0
8/6/2024 11:32	52004	LING_T2	2	2	0	4.25	4.3	0.05	0	0	0	0	0	0	0	0
8/6/2024 11:32	52006	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 11:33	47001	HUGH_T2	3	3	0	7.67	7.33	-0.34	-0.76	-0.7	1	1	0	900	900	0
8/6/2024 11:34	52002	LING_T2	3	8	5	0.23	0.15	-0.08	0.04	0.11	1	1	0	900	900	0
8/6/2024 11:34	52006	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 11:34	42902	MIDD_T2	1	3	2	3.4	1.03	-2.37	-0.1	-0.25	2	2	0	1200	1200	0
8/6/2024 11:34	53501	EVIL_T2	43	102	59	0.51	0.38	-0.13	-0.01	-0.01	4	4	0	2300	2300	0
8/6/2024 11:34	53502	EVIL_T2	16	19	3	0.53	0.42	-0.11	0	0	0	0	0	0	0	0
8/6/2024 11:34	42901	MIDD_T2	2	3	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/6/2024 11:34	52004	LING_T2	2	2	0	4.25	4.3	0.05	0	0	0	0	0	0	0	0
8/6/2024 11:34	42903	MIDD_T2	2	2	0	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/6/2024 11:34	47101	MARL_T1	62	118	56	0.8	0.86	0.06	-0.55	-0.49	1	1	0	600	600	0
8/6/2024 11:35	42903	MIDD_T2	2	2	0	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/6/2024 11:35	42901	MIDD_T2	2	3	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/6/2024 11:35	42902	MIDD_T2	1	3	2	3.4	1.03	-2.37	-0.1	-0.25	2	2	0	1200	1200	0
8/6/2024 11:37	64101	REFR_T1	10	14	4	1.27	1.27	0	0.14	0.18	0	0	0	0	0	0
8/6/2024 11:37	42903	MIDD_T2	2	2	0	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/6/2024 11:37	42901	MIDD_T2	2	3	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/6/2024 11:37	42902	MIDD_T2	1	3	2	3.4	1.03	-2.37	0	0	0	0	0	0	0	0
8/6/2024 11:38	23001	SAJO_T1	0	0	0	0	0	0	-0.98	-0.94	0	0	0	0	0	0
8/6/2024 11:38	23002	SAJO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/6/2024 11:39	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 11:39	29402	BELT_T1	6	3	-3	1.77	4.25	2.48	0	0	0	0	0	0	0	0
8/6/2024 11:39	45402	WBLO_T2	2	1	-1	0.5	1.2	0.7	-0.74	-0.75	1	1	0	900	900	0
8/6/2024 11:40	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	1	1	0	900	900	0
8/6/2024 11:40	29402	BELT_T1	6	3	-3	1.77	4.25	2.48	0	0	0	0	0	0	0	0
8/6/2024 11:40	45502	DERR_T2	12	9	-3	0.38	0.73	0.35	0	0	0	0	0	0	0	0
8/6/2024 11:40	45501	DERR_T2	5	5	0	0.5	0.47	-0.03	1.28	1.26	2	2	0	1800	1800	0
8/6/2024 11:41	53601	DALM_T2	0	0	0	0	0	0	-1.96	-2.03	6	6	0	4500	4500	0
8/6/2024 11:42	44301	BEAV_T2	1	3	2	1.4	0.3	-1.1	0	0	0	0	0	0	0	0
8/6/2024 11:43	44801	EDAN_T2	6	4	-2	0.63	1	0.37	-1.09	-1.11	0	0	0	0	0	0
8/6/2024 11:44	44801	EDAN_T2	6	4	-2	0.63	1	0.37	-1.09	-1.11	0	0	0	0	0	0
8/6/2024 11:44	53501	EVIL_T2	43	102	59	0.51	0.38	-0.13	-0.01	-0.01	4	4	0	2300	2300	0
8/6/2024 11:44	53502	EVIL_T2	16	19	3	0.53	0.42	-0.11	0	0	0	0	0	0	0	0
8/6/2024 11:45	45501	DERR_T2	5	11	6	0.42	0.63	0.21	1.28	1.26	2	2	0	1800	1800	0
8/6/2024 11:45	45502	DERR_T2	4	78	74	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
8/6/2024 11:46	52401	GRPA_T2	28	59	31	0.67	0.55	-0.12	-0.09	-0.04	0	0	0	0	0	0
8/6/2024 11:46	52402	GRPA_T2	4	2	-2	0.8	0.25	-0.55	0	0	0	0	0	0	0	0
8/6/2024 11:46	52403	GRPA_T2	31	63	32	0.81	0.81	0	0	0	0	0	0	0	0	0
8/6/2024 11:47	22905	HARW_T1	0	5	5	0	0.57	0.57	-0.32	-0.37	0	0	0	0	0	0
8/6/2024 11:47	22901	HARW_T1	5	10	5	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/6/2024 11:47	22903	HARW_T1	24	24	0	2.87	1.65	-1.22	0	0	0	0	0	0	0	0
8/6/2024 11:48	47101	MARL_T1	98	171	73	0.84	1	0.16	-0.49	-0.44	1	1	0	600	600	0
8/6/2024 11:49	15603	NSTR_T2	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
8/6/2024 11:49	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/6/2024 11:50	41903	REED_T1	4	4	0	0.23	0.9	0.67	0	0	0	0	0	0	0	0
8/6/2024 11:50	41902	REED_T1	12	37	25	0.53	0.49	-0.04	0.7	0.71	1	1	0	900	900	0
8/6/2024 11:52	64101	REFR_T1	11	15	4	1.34	1.18	-0.16	0.18	0.17	0	0	0	0	0	0
8/6/2024 11:53	59202	THOM_T1	2	1	-1	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/6/2024 11:53	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/6/2024 11:53	64101	REFR_T1	11	15	4	1.34	1.18	-0.16	0.18	0.17	0	0	0	0	0	0
8/6/2024 11:54	40201	BEGA_T2	4	8	4	1.45	3.5	2.05	0	0	0	0	0	0	0	0
8/6/2024 11:54	42802	SELI_T1	0	0	0	0	0	0	-1.01	-1.06	1	1	0	900	900	0
8/6/2024 11:54	67603	WARW_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
8/6/2024 11:54	20402	ASHF_T2	6	17	11	0.15	0.21	0.06	0	0	0	0	0	0	0	0
8/6/2024 11:54	67605	WARW_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/6/2024 11:54	20403	ASHF_T2	29	30	1	0.46	0.51	0.05	1.16	1.05	0	0	0	0	0	0
8/6/2024 11:54	20401	ASHF_T2	5	13	8	1.8	1.14	-0.66	0	0	0	0	0	0	0	0
8/6/2024 11:55	67605	WARW_T1	0	1	1	0	0.7	0.7	-0.56	-0.56	0	0	0	0	0	0
8/6/2024 11:55	64101	REFR_T1	11	15	4	1.34	1.18	-0.16	0.35	0.35	0	0	0	0	0	0
8/6/2024 11:55	52204	DEVO_T2	6	7	1	1.13	1.38	0.25	0	0	0	0	0	0	0	0
8/6/2024 11:55	52202	DEVO_T2	0	1	1	0	0.2	0.2	-1.74	-1.69	0	0	0	0	0	0
8/6/2024 11:56	45501	DERR_T2	5	11	6	0.42	0.63	0.21	1.26	1.17	2	2	0	1800	1800	0
8/6/2024 11:56	52204	DEVO_T2	6	7	1	1.13	1.38	0.25	0	0	0	0	0	0	0	0
8/6/2024 11:56	52202	DEVO_T2	0	1	1	0	0.2	0.2	-1.74	-1.69	0	0	0	0	0	0
8/6/2024 11:56	45502	DERR_T2	4	78	74	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
8/6/2024 11:56	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/6/2024 11:58	64904	MILL_T1	0	0	0	0	0	0	-0.48	-0.42	0	0	0	0	0	0
8/6/2024 11:58	52204	DEVO_T2	6	7	1	1.13	1.38	0.25	0	0	0	0	0	0	0	0
8/6/2024 11:58	52202	DEVO_T2	0	1	1	0	0.2	0.2	-1.74	-1.69	0	0	0	0	0	0
8/6/2024 11:59	45801	HEGI_T1	0	1	1	0	0	0	1.34	1.25	2	2	0	1800	1800	0
8/6/2024 12:00	52202	DEVO_T2	1	4	3	0.2	0.2	0	-1.74	-1.69	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/6/2024 12:00	45501	DERR_T2	3	12	9	0.63	0.51	-0.12	2.52	2.34	4	4	0	3600	3600	0
8/6/2024 12:00	45502	DERR_T2	8	111	103	0.4	0.4	0	0	0	0	0	0	0	0	0
8/6/2024 12:00	45702	LIND_T2	2	0	-2	0.3	0	-0.3	-1.15	-1.13	0	0	0	0	0	0
8/6/2024 12:00	52204	DEVO_T2	7	8	1	1.2	1.43	0.23	0	0	0	0	0	0	0	0
8/6/2024 12:03	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/6/2024 12:04	65001	NEFF_T2	0	0	0	0	0	0	-0.34	-0.22	1	1	0	1200	1200	0
8/6/2024 12:05	54701	NEBL_T1	5	4	-1	0.34	0.28	-0.06	0	0	1	1	0	600	600	0
8/6/2024 12:05	42901	MIDD_T2	2	4	2	0.35	0.7	0.35	0	0	0	0	0	0	0	0
8/6/2024 12:05	42903	MIDD_T2	0	2	2	0	0.35	0.35	1.19	0.43	1	1	0	1200	1200	0
8/6/2024 12:05	42902	MIDD_T2	1	4	3	2.2	1.27	-0.93	0	0	0	0	0	0	0	0
8/6/2024 12:06	43105	SMIL_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/6/2024 12:06	43102	SMIL_T2	0	0	0	0	0	0	-0.23	-0.14	1	1	0	600	600	0
8/6/2024 12:06	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 12:06	43103	SMIL_T2	1	0	-1	0.1	0	-0.1	-1.53	-1.48	0	0	0	0	0	0
8/6/2024 12:07	43105	SMIL_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/6/2024 12:07	43103	SMIL_T2	1	0	-1	0.1	0	-0.1	-1.48	-1.44	0	0	0	0	0	0
8/6/2024 12:07	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 12:08	64101	REFR_T1	14	15	1	1.1	2.19	1.09	0.17	0.16	0	0	0	0	0	0
8/6/2024 12:09	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 12:09	43103	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 12:09	43105	SMIL_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/6/2024 12:10	64101	REFR_T1	14	15	1	1.1	2.19	1.09	0.17	0.16	0	0	0	0	0	0
8/6/2024 12:11	51201	MTON_T1	0	0	0	0	0	0	1.01	1.03	0	0	0	0	0	0
8/6/2024 12:14	23401	HONE_T2	0	1	1	0	0	0	-0.03	-0.05	0	0	0	0	0	0
8/6/2024 12:14	22903	HARW_T1	22	25	3	1.65	2.25	0.6	-0.31	-0.31	0	0	0	0	0	0
8/6/2024 12:14	22901	HARW_T1	5	19	14	0.1	0.68	0.58	0	0	0	0	0	0	0	0
8/6/2024 12:14	22904	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 12:14	22905	HARW_T1	3	6	3	0.57	0.6	0.03	0	0	0	0	0	0	0	0
8/6/2024 12:15	45801	HEGI_T1	0	0	0	0	0	0	1.25	1.31	2	2	0	1800	1800	0
8/6/2024 12:16	53502	EVIL_T2	17	36	19	0.39	0.44	0.05	0	0	0	0	0	0	0	0
8/6/2024 12:16	26803	JAFR_T1	0	0	0	0	0	0	0.14	0.18	1	1	0	900	900	0
8/6/2024 12:16	53501	EVIL_T2	92	442	350	0.47	0.52	0.05	-0.01	-0.01	4	4	0	2300	2300	0
8/6/2024 12:17	41001	LAUR_T2	5	32	27	0.64	0.64	0	0	0	0	0	0	0	0	0
8/6/2024 12:17	41002	LAUR_T2	4	5	1	0.9	0.92	0.02	0.45	0.42	0	0	0	0	0	0
8/6/2024 12:18	53501	EVIL_T2	92	442	350	0.47	0.52	0.05	0	0	0	0	0	0	0	0
8/6/2024 12:18	53502	EVIL_T2	17	36	19	0.39	0.44	0.05	-0.12	-0.16	3	3	0	2100	2100	0
8/6/2024 12:21	42902	MIDD_T2	3	9	6	1.3	1.55	0.25	-0.19	-0.22	1	1	0	600	600	0
8/6/2024 12:21	52501	PROG_T1	0	0	0	0	0	0	-0.36	-0.34	1	1	0	300	300	0
8/6/2024 12:21	42901	MIDD_T2	1	4	3	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
8/6/2024 12:21	42903	MIDD_T2	2	4	2	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
8/6/2024 12:24	55002	NEWP_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
8/6/2024 12:24	59202	THOM_T1	0	5	5	0	0.27	0.27	0	0	0	0	0	0	0	0
8/6/2024 12:24	20403	ASHF_T2	23	72	49	0.72	0.7	-0.02	1.19	1.17	0	0	0	0	0	0
8/6/2024 12:24	20402	ASHF_T2	16	22	6	0.37	0.58	0.21	0	0	0	0	0	0	0	0
8/6/2024 12:24	55001	NEWP_T1	6	5	-1	0.67	0.7	0.03	-0.09	-0.65	1	1	0	600	600	0
8/6/2024 12:24	20401	ASHF_T2	11	16	5	1.21	0.91	-0.3	0	0	0	0	0	0	0	0
8/6/2024 12:27	20402	ASHF_T2	16	22	6	0.37	0.58	0.21	0	0	0	0	0	0	0	0
8/6/2024 12:27	55101	WERT_T1	12	18	6	0.54	0.63	0.09	-3.93	-3.88	12	12	0	9900	9900	0
8/6/2024 12:27	20401	ASHF_T2	11	16	5	1.21	0.91	-0.3	0	0	0	0	0	0	0	0
8/6/2024 12:27	67605	WARW_T1	1	1	0	0.5	0.2	-0.3	-0.45	-0.44	0	0	0	0	0	0
8/6/2024 12:27	20403	ASHF_T2	23	72	49	0.72	0.7	-0.02	1.19	1.17	0	0	0	0	0	0
8/6/2024 12:28	21701	SUBU_T1	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
8/6/2024 12:28	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0.78	0.92	0	0	0	0	0	0
8/6/2024 12:28	21703	SUBU_T1	0	0	0	0	0	0	-0.06	0.03	0	0	0	0	0	0
8/6/2024 12:28	21705	SUBU_T1	1	1	0	6.6	6.9	0.3	0	0	0	0	0	0	0	0
8/6/2024 12:28	59003	MIFF_T1	0	5	5	0	1	1	-0.76	-0.54	0	0	0	0	0	0
8/6/2024 12:28	46801	HEPB_T2	2	2	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
8/6/2024 12:29	52202	DEVO_T2	1	4	3	0.2	0.25	0.05	-1.63	-1.66	0	0	0	0	0	0
8/6/2024 12:29	52204	DEVO_T2	6	8	2	1.43	1.23	-0.2	0	0	0	0	0	0	0	0
8/6/2024 12:31	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/6/2024 12:31	64305	LINC_T1	0	2	2	0	0.4	0.4	-0.48	-0.34	0	0	0	0	0	0
8/6/2024 12:32	40602	PIGR_T1	3	6	3	1.1	1.3	0.2	0.12	0.1	0	0	0	0	0	0
8/6/2024 12:32	64201	KINZ_T1	216	422	206	0.52	0.7	0.18	0	0	0	0	0	0	0	0
8/6/2024 12:32	40603	PIGR_T1	3	4	1	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
8/6/2024 12:32	64202	KINZ_T1	1	44	43	0.2	0.27	0.07	0	0	0	0	0	0	0	0
8/6/2024 12:32	40601	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 12:32	64204	KINZ_T1	1	24	23	1.5	1.8	0.3	0	0	0	0	0	0	0	0
8/6/2024 12:32	64203	KINZ_T1	21	105	84	1	1.04	0.04	0.64	0.83	3	3	0	2100	2100	0
8/6/2024 12:34	40901	JESH_T1	2	2	0	1.35	1.4	0.05	0	0	0	0	0	0	0	0
8/6/2024 12:34	40902	JESH_T1	0	2	2	0	0	0	-0.71	-0.68	3	3	0	1800	1800	0
8/6/2024 12:35	52202	DEVO_T2	4	2	-2	0.65	0	-0.65	-1.63	-1.66	0	0	0	0	0	0
8/6/2024 12:35	52204	DEVO_T2	8	7	-1	1.28	1.03	-0.25	0	0	0	0	0	0	0	0
8/6/2024 12:35	65205	PRIN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 12:36	64802	MONE_T2	2	1	-1	0.35	0.5	0.15	0.41	0.44	0	0	0	0	0	0
8/6/2024 12:36	64801	MONE_T2	2	3	1	0.85	0.1	-0.75	0	0	0	0	0	0	0	0
8/6/2024 12:38	25603	ARRO_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
8/6/2024 12:39	49802	UNIV_T2	1	0	-1	0.2	0	-0.2	0.45	0.48	0	0	0	0	0	0
8/6/2024 12:40	64101	REFR_T1	13	16	3	2.04	2.1	0.06	0.17	0.16	0	0	0	0	0	0
8/6/2024 12:41	67602	WARW_T2	0	0	0	0	0	0	0.21	0.03	2	2	0	1500	1500	0
8/6/2024 12:42	53903	HALI_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/6/2024 12:42	53901	HALI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 12:42	67605	WARW_T1	1	0	-1	0.2	0	-0.2	-0.44	-0.38	0	0	0	0	0	0
8/6/2024 12:42	53902	HALI_T2	1	1	0	3.8	3.8	0	-0.43	-0.4	0	0	0	0	0	0
8/6/2024 12:42	67602	WARW_T2	0	0	0	0	0	0	0.64	0.09	6	6	0	4500	4500	0
8/6/2024 12:43	67602	WARW_T2	0	0	0	0	0	0	0.21	0.03	2	2	0	1500	1500	0
8/6/2024 12:43	57303	MOAL_T2	1	1	0	8.1	7.9	-0.2	0	0	0	0	0	0	0	0
8/6/2024 12:43	57304	MOAL_T2	8	17	9	0.57	0	-0.57	-0.75	-0.7	1	1	0	900	900	0
8/6/2024 12:45	41002	LAUR_T2	5	4	-1	0.9	0.68	-0.22	0.41	0.44	0	0	0	0	0	0
8/6/2024 12:45	41001	LAUR_T2	32	46	14	0.72	0.63	-0.09	0	0	0	0	0	0	0	0
8/6/2024 12:46	64302	LINC_T2	7	11	4	0.76	0.84	0.08	1.28	1.25	0	0	0	0	0	0
8/6/2024 12:47	64201	KINZ_T1	349	425	76	0.7	1.03	0.33	0	0	0	0	0	0	0	0
8/6/2024 12:47	64203	KINZ_T1	39	110	71	1.06	0.84	-0.22	0.83	0.87	3	3	0	2100	2100	0
8/6/2024 12:47	64204	KINZ_T1	1	30	29	1.8	0.41	-1.39	0	0	0	0	0	0	0	0
8/6/2024 12:47	64202	KINZ_T1	9	44	35	0.27	0.42	0.15	0	0	0	0	0	0	0	0
8/6/2024 12:49	57702	PAXT_T1	1	2	1	0.4	0	-0.4	-0.01	0.08	0	0	0	0	0	0
8/6/2024 12:50	40101	HUNT_T2	248	300	52	0.51	0.46	-0.05	-0.45	-0.36	0	0	0	0	0	0
8/6/2024 12:51	21206	ECAR_T2	1	1	0	7	6.9	-0.1	0	0	0	0	0	0	0	0
8/6/2024 12:51	24204	PROV_T3	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
8/6/2024 12:51	21204	ECAR_T2	1	1	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
8/6/2024 12:51	24201	PROV_T3	3	3	0	3.77	3.73	-0.04	-0.53	-0.52	1	1	0	1200	1200	0
8/6/2024 12:52	65401	MARI_T1	17	17	0	2.59	2.07	-0.52	0	0	0	0	0	0	0	0
8/6/2024 12:52	45402	WBLO_T2	1	0	-1	0.1	0	-0.1	-0.62	-0.61	1	1	0	900	900	0
8/6/2024 12:52	65402	MARI_T1	9	9	0	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
8/6/2024 12:54	55101	WERT_T1	18	101	83	0.77	0.58	-0.19	-1.19	-1.24	4	4	0	3300	3300	0
8/6/2024 12:54	44203	POIN_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 12:54	44202	POIN_T2	1	1	0	1.4	0	-1.4	-0.59	-0.56	2	2	0	1800	1800	0
8/6/2024 12:55	55101	WERT_T1	18	101	83	0.77	0.58	-0.19	-1.19	-1.24	4	4	0	3300	3300	0
8/6/2024 12:55	67602	WARW_T2	0	0	0	0	0	0	0.03	0.03	2	2	0	1500	1500	0
8/6/2024 12:55	43108	SMIL_T2	0	0	0	0	0	0	-0.8	-0.66	1	1	0	1200	1200	0
8/6/2024 12:55	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 12:57	40702	FFLD_T1	2	2	0	0.8	0.95	0.15	0.6	0.61	1	1	0	1200	1200	0
8/6/2024 12:57	51903	COPA_T1	0	0	0	0	0	0	0.25	0.28	0	0	0	0	0	0
8/6/2024 12:57	67602	WARW_T2	0	0	0	0	0	0	0.03	0.03	2	2	0	1500	1500	0
8/6/2024 12:57	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.38	-0.33	0	0	0	0	0	0
8/6/2024 12:57	51904	COPA_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
8/6/2024 12:57	40701	FFLD_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/6/2024 12:58	40201	BEGA_T2	11	15	4	0.9	1.02	0.12	0	0	0	0	0	0	0	0
8/6/2024 12:58	41602	CLEV_T1	28	34	6	0.46	0.42	-0.04	0	0	1	1	0	600	600	0
8/6/2024 12:59	40201	BEGA_T2	11	15	4	0.9	1.02	0.12	0	0	0	0	0	0	0	0
8/6/2024 13:00	67602	WARW_T2	0	0	0	0	0	0	0.03	0.03	2	2	0	1500	1500	0
8/6/2024 13:01	27201	YATE_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
8/6/2024 13:01	63602	LETO_T1	1	1	0	2.8	0	-2.8	0.33	0.33	1	1	0	600	600	0
8/6/2024 13:02	60201	ATGL_T2	3	1	-2	0.23	0.2	-0.03	0.52	0.63	2	2	0	900	900	0
8/6/2024 13:02	64301	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 13:02	65501	MOJO_T1	0	0	0	0	0	0	-1.4	-1.37	2	2	0	1800	1800	0
8/6/2024 13:02	64305	LINC_T1	2	2	0	0.9	1.35	0.45	-0.27	-0.1	0	0	0	0	0	0
8/6/2024 13:02	53802	MBRG_T2	0	0	0	0	0	0	1.31	1.31	0	0	0	0	0	0
8/6/2024 13:02	63602	LETO_T1	1	1	0	2.8	0	-2.8	0.33	0.33	1	1	0	600	600	0
8/6/2024 13:03	42902	MIDD_T2	11	27	16	0.91	0.89	-0.02	0	0	0	0	0	0	0	0
8/6/2024 13:03	42903	MIDD_T2	0	0	0	0	0	0	1.15	1.08	1	1	0	1200	1200	0
8/6/2024 13:03	42901	MIDD_T2	2	3	1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
8/6/2024 13:05	65901	SAKR_T2	3	3	0	1.83	2.7	0.87	-0.03	0.11	2	2	0	1500	1500	0
8/6/2024 13:05	65903	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 13:07	43102	SMIL_T2	0	0	0	0	0	0	-0.18	0.18	1	1	0	600	600	0
8/6/2024 13:07	43101	SMIL_T2	0	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0
8/6/2024 13:08	49804	UNIV_T1	2	1	-1	0.4	0.4	0	2.34	2.29	0	0	0	0	0	0
8/6/2024 13:08	43102	SMIL_T2	0	0	0	0	0	0	-0.18	0.18	1	1	0	600	600	0
8/6/2024 13:08	43101	SMIL_T2	0	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0
8/6/2024 13:08	49803	UNIV_T1	1	2	1	6.9	3.45	-3.45	0	0	0	0	0	0	0	0
8/6/2024 13:09	41902	REED_T1	11	23	12	0.96	0.61	-0.35	-0.08	-0.1	1	1	0	900	900	0
8/6/2024 13:09	59101	WALK_T2	11	6	-5	0.78	0.9	0.12	0.6	0.64	3	3	0	1800	1800	0
8/6/2024 13:09	66703	STRA_T1	11	18	7	0.52	0.45	-0.07	0.25	0.23	0	0	0	0	0	0
8/6/2024 13:09	41901	REED_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/6/2024 13:09	41903	REED_T1	4	4	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
8/6/2024 13:10	42802	SELI_T1	0	0	0	0	0	0	-0.89	-0.8	1	1	0	900	900	0
8/6/2024 13:11	44301	BEAV_T2	5	6	1	0.76	0.7	-0.06	0	0	0	0	0	0	0	0
8/6/2024 13:11	42601	HUSC_T1	0	0	0	0	0	0	-1.4	-1.49	3	3	0	2400	2400	0
8/6/2024 13:12	61504	EPET_T2	0	0	0	0	0	0	-0.12	-0.1	0	0	0	0	0	0
8/6/2024 13:12	67602	WARW_T2	0	0	0	0	0	0	0.03	0.04	2	2	0	1500	1500	0
8/6/2024 13:12	61501	EPET_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
8/6/2024 13:12	59101	WALK_T2	11	6	-5	0.78	0.9	0.12	0.6	0.64	3	3	0	1800	1800	0
8/6/2024 13:16	28702	HAML_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
8/6/2024 13:18	53501	EVIL_T2	202	157	-45	0.51	0.4	-0.11	-0.01	-0.01	4	4	0	2300	2300	0
8/6/2024 13:18	40902	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 13:18	53502	EVIL_T2	16	5	-11	0.46	0.13	-0.33	0	0	0	0	0	0	0	0
8/6/2024 13:18	40901	JESH_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
8/6/2024 13:18	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 13:18	40101	HUNT_T2	58	44	-14	0.46	0.42	-0.04	-0.8	-1.09	0	0	0	0	0	0
8/6/2024 13:19	64204	KINZ_T1	28	54	26	0.54	0.54	0	0	0	0	0	0	0	0	0
8/6/2024 13:19	64202	KINZ_T1	40	49	9	0.43	0.46	0.03	0	0	0	0	0	0	0	0
8/6/2024 13:19	64201	KINZ_T1	404	387	-17	1.03	0.51	-0.52	-0.27	-0.48	5	5	0	3300	3300	0
8/6/2024 13:19	53501	EVIL_T2	202	157	-45	0.51	0.4	-0.11	-0.01	-0.01	8	8	0	4600	4600	0
8/6/2024 13:19	53502	EVIL_T2	16	5	-11	0.46	0.13	-0.33	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/6/2024 13:19	44202	POIN_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
8/6/2024 13:19	44203	POIN_T2	7	12	5	1.29	1.53	0.24	-0.12	0.09	3	3	0	3300	3300	0
8/6/2024 13:19	64203	KINZ_T1	66	112	46	0.89	1.01	0.12	0.64	0.68	3	3	0	2100	2100	0
8/6/2024 13:20	44203	POIN_T2	7	12	5	1.29	1.53	0.24	-0.12	0.09	3	3	0	3300	3300	0
8/6/2024 13:20	40101	HUNT_T2	58	44	-14	0.46	0.42	-0.04	-0.8	-1.09	0	0	0	0	0	0
8/6/2024 13:20	44202	POIN_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
8/6/2024 13:21	65903	SAKR_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/6/2024 13:21	65901	SAKR_T2	2	4	2	2.45	2.95	0.5	0	0	0	0	0	0	0	0
8/6/2024 13:21	65902	SAKR_T2	0	0	0	0	0	0	-0.45	-0.57	2	2	0	1200	1200	0
8/6/2024 13:23	24204	PROV_T3	1	1	0	7.5	7.6	0.1	0	0	0	0	0	0	0	0
8/6/2024 13:23	24201	PROV_T3	2	4	2	2.55	2.8	0.25	-0.49	-0.53	1	1	0	1200	1200	0
8/6/2024 13:24	45302	WBER_T2	1	2	1	0.3	0.3	0	1.58	1.56	0	0	0	0	0	0
8/6/2024 13:24	44203	POIN_T2	7	12	5	1.29	1.53	0.24	0.09	-0.02	3	3	0	3300	3300	0
8/6/2024 13:24	44202	POIN_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
8/6/2024 13:24	41502	FAIR_T2	0	1	1	0	0	0	-1.26	-1.26	1	1	0	900	900	0
8/6/2024 13:25	57003	WHHI_T2	15	15	0	0.38	0.7	0.32	0	0	0	0	0	0	0	0
8/6/2024 13:25	45302	WBER_T2	1	2	1	0.3	0.3	0	1.58	1.56	0	0	0	0	0	0
8/6/2024 13:25	57004	WHHI_T2	1	1	0	2.8	2.1	-0.7	0.07	0.06	0	0	0	0	0	0
8/6/2024 13:27	61703	ELIZ_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 13:27	61701	ELIZ_T1	1	3	2	0.8	0.4	-0.4	2.97	3.35	0	0	0	0	0	0
8/6/2024 13:28	61703	ELIZ_T1	0	5	5	0	0	0	-4.42	-4.36	4	4	0	4200	4200	0
8/6/2024 13:28	26704	HEMI_T2	0	0	0	0	0	0	-0.46	-0.45	1	1	0	1200	1200	0
8/6/2024 13:28	61701	ELIZ_T1	1	3	2	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
8/6/2024 13:30	61703	ELIZ_T1	1	12	11	0.1	0.23	0.13	-4.42	-4.36	4	4	0	4200	4200	0
8/6/2024 13:30	61701	ELIZ_T1	2	3	1	0.45	0.25	-0.2	1.48	1.68	0	0	0	0	0	0
8/6/2024 13:34	58402	MORO_T1	2	3	1	0.35	0	-0.35	0.12	0.13	3	3	0	2400	2400	0
8/6/2024 13:35	41903	REED_T1	4	4	0	0.83	0.43	-0.4	0	0	0	0	0	0	0	0
8/6/2024 13:35	41901	REED_T1	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 13:35	40101	HUNT_T2	39	138	99	0.48	0.46	-0.02	-1.09	-0.77	0	0	0	0	0	0
8/6/2024 13:35	41902	REED_T1	22	62	40	0.62	0.56	-0.06	-0.1	-0.22	1	1	0	900	900	0
8/6/2024 13:39	57003	WHHI_T2	15	15	0	0.97	0.34	-0.63	0	0	0	0	0	0	0	0
8/6/2024 13:39	57004	WHHI_T2	1	1	0	2.1	2.7	0.6	0.06	-0.04	0	0	0	0	0	0
8/6/2024 13:39	43101	SMIL_T2	1	2	1	1.6	0	-1.6	0	0	0	0	0	0	0	0
8/6/2024 13:39	43108	SMIL_T2	0	0	0	0	0	0	-0.68	-0.71	1	1	0	1200	1200	0
8/6/2024 13:40	47101	MARL_T1	160	241	81	1.11	1.03	-0.08	-0.4	-0.37	1	1	0	600	600	0
8/6/2024 13:40	47104	MARL_T1	2	10	8	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/6/2024 13:40	64101	REFR_T1	11	11	0	1.75	1.69	-0.06	-0.37	-0.37	0	0	0	0	0	0
8/6/2024 13:41	29402	BELT_T1	18	33	15	0.25	0.46	0.21	0	0	0	0	0	0	0	0
8/6/2024 13:41	29401	BELT_T1	0	8	8	0	0.16	0.16	0	0	0	0	0	0	0	0
8/6/2024 13:42	61703	ELIZ_T1	1	12	11	0.1	0.23	0.13	0	0	0	0	0	0	0	0
8/6/2024 13:42	61701	ELIZ_T1	2	3	1	0.45	0.25	-0.2	1.68	1.6	0	0	0	0	0	0
8/6/2024 13:43	61703	ELIZ_T1	1	12	11	0.1	0.23	0.13	0	0	0	0	0	0	0	0
8/6/2024 13:43	61701	ELIZ_T1	2	3	1	0.45	0.25	-0.2	1.68	1.6	0	0	0	0	0	0
8/6/2024 13:44	67605	WARW_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
8/6/2024 13:45	62105	ELAN_T1	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/6/2024 13:45	22903	HARW_T1	23	23	0	1.05	0.73	-0.32	0	0	0	0	0	0	0	0
8/6/2024 13:45	62104	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/6/2024 13:45	45501	DERR_T2	32	45	13	0.7	0.64	-0.06	1.36	1.31	2	2	0	1800	1800	0
8/6/2024 13:45	20601	GRWO_T2	505	644	139	1.51	1.41	-0.1	0.77	0.76	1	1	0	1200	1200	0
8/6/2024 13:45	62102	ELAN_T1	0	2	2	0	0	0	0.09	0.14	0	0	0	0	0	0
8/6/2024 13:45	61306	EARL_T1	0	0	0	0	0	0	-1.08	-1.07	0	0	0	0	0	0
8/6/2024 13:45	22901	HARW_T1	34	32	-2	0.81	0.47	-0.34	0.2	0.15	1	1	0	1200	1200	0
8/6/2024 13:45	22905	HARW_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 13:45	61703	ELIZ_T1	4	13	9	0.23	0.34	0.11	0	0	0	0	0	0	0	0
8/6/2024 13:45	61303	EARL_T1	3	4	1	0.9	0.77	-0.13	0	0	0	0	0	0	0	0
8/6/2024 13:45	61701	ELIZ_T1	2	3	1	0.25	0.3	0.05	1.68	1.6	0	0	0	0	0	0
8/6/2024 13:45	45502	DERR_T2	148	187	39	0.64	0.86	0.22	0	0	0	0	0	0	0	0
8/6/2024 13:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/6/2024 13:48	52006	LING_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 13:48	52004	LING_T2	2	2	0	4.2	4.25	0.05	0.65	0.68	0	0	0	0	0	0
8/6/2024 13:48	52002	LING_T2	30	26	-4	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
8/6/2024 13:49	65604	QVIL_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
8/6/2024 13:49	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/6/2024 13:49	65601	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 13:50	42901	MIDD_T2	3	6	3	0.77	0.4	-0.37	0	0	0	0	0	0	0	0
8/6/2024 13:50	42902	MIDD_T2	27	27	0	0.93	0.72	-0.21	0	0	0	0	0	0	0	0
8/6/2024 13:50	42903	MIDD_T2	0	8	8	0	0.3	0.3	1.12	1.06	1	1	0	1200	1200	0
8/6/2024 13:50	57203	ROSS_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
8/6/2024 13:50	57201	ROSS_T1	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/6/2024 13:50	15604	NSTR_T1	1	1	0	0.6	0.7	0.1	1.01	1.05	0	0	0	0	0	0
8/6/2024 13:52	44203	POIN_T2	11	7	-4	1.13	0	-1.13	0.06	0.05	3	3	0	3300	3300	0
8/6/2024 13:53	65601	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 13:53	65903	SAKR_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/6/2024 13:53	65901	SAKR_T2	3	6	3	2.43	2	-0.43	0	0	0	0	0	0	0	0
8/6/2024 13:53	65902	SAKR_T2	0	2	2	0	0	0	-0.49	-0.5	2	2	0	1200	1200	0
8/6/2024 13:53	65604	QVIL_T2	0	0	0	0	0	0	0.32	0.36	0	0	0	0	0	0
8/6/2024 13:57	46205	DANV_T2	2	1	-1	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/6/2024 13:57	46206	DANV_T2	83	93	10	0.8	0.75	-0.05	1.98	2.01	2	2	0	2100	2100	0
8/6/2024 13:57	46204	DANV_T2	52	74	22	0.41	0.39	-0.02	0	0	0	0	0	0	0	0
8/6/2024 13:57	51304	WIND_T2	0	0	0	0	0	0	0.45	0.41	0	0	0	0	0	0
8/6/2024 13:57	46203	DANV_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 13:58	44301	BEAV_T2	2	3	1	1.15	0.1	-1.05	0	0	0	0	0	0	0	0
8/6/2024 13:59	46802	HEPB_T1	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
8/6/2024 14:00	64201	KINZ_T1	486	481	-5	1.28	1.02	-0.26	-0.39	-0.43	5	5	0	3300	3300	0
8/6/2024 14:00	64203	KINZ_T1	233	359	126	0.78	0.7	-0.08	0	0	0	0	0	0	0	0
8/6/2024 14:00	67602	WARW_T2	0	2	2	0	0	0	-0.05	0.08	2	2	0	1500	1500	0
8/6/2024 14:00	64202	KINZ_T1	53	59	6	0.84	0.78	-0.06	0	0	0	0	0	0	0	0
8/6/2024 14:00	63602	LETO_T1	0	2	2	0	0	0	0.23	0.34	1	1	0	600	600	0
8/6/2024 14:00	64204	KINZ_T1	81	145	64	0.68	0.68	0	0	0	0	0	0	0	0	0
8/6/2024 14:01	64204	KINZ_T1	81	145	64	0.68	0.68	0	0	0	0	0	0	0	0	0
8/6/2024 14:01	64203	KINZ_T1	233	359	126	0.78	0.7	-0.08	0.75	0.68	3	3	0	2100	2100	0
8/6/2024 14:01	64201	KINZ_T1	486	481	-5	1.28	1.02	-0.26	0	0	0	0	0	0	0	0
8/6/2024 14:01	64202	KINZ_T1	53	59	6	0.84	0.78	-0.06	0	0	0	0	0	0	0	0
8/6/2024 14:03	64202	KINZ_T1	53	59	6	0.84	0.78	-0.06	0	0	0	0	0	0	0	0
8/6/2024 14:03	64203	KINZ_T1	233	359	126	0.78	0.7	-0.08	0.75	0.68	3	3	0	2100	2100	0
8/6/2024 14:03	64204	KINZ_T1	81	145	64	0.68	0.68	0	0	0	0	0	0	0	0	0
8/6/2024 14:03	64201	KINZ_T1	486	481	-5	1.28	1.02	-0.26	0	0	0	0	0	0	0	0
8/6/2024 14:05	58705	ROSE_T2	3	3	0	0.27	0.75	0.48	0	0	0	0	0	0	0	0
8/6/2024 14:05	58303	NOTT_T2	0	0	0	0	0	0	0.16	0.2	1	1	0	900	900	0
8/6/2024 14:05	15603	NSTR_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
8/6/2024 14:05	58706	ROSE_T2	1	1	0	2.6	2	-0.6	0.53	0.51	1	1	0	600	600	0
8/6/2024 14:06	64101	REFR_T1	11	15	4	2.3	1.11	-1.19	0.35	0.34	0	0	0	0	0	0
8/6/2024 14:06	59202	THOM_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
8/6/2024 14:07	41901	REED_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
8/6/2024 14:07	41903	REED_T1	4	4	0	0.83	0.55	-0.28	0	0	0	0	0	0	0	0
8/6/2024 14:07	58302	NOTT_T1	0	0	0	0	0	0	-0.84	-1	2	2	0	2100	2100	0
8/6/2024 14:07	59101	WALK_T2	12	6	-6	0.46	0.58	0.12	0.56	0.6	4	4	0	2400	2400	0
8/6/2024 14:07	41902	REED_T1	61	57	-4	0.7	0.56	-0.14	-0.05	-0.23	1	1	0	900	900	0
8/6/2024 14:08	59202	THOM_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
8/6/2024 14:09	43304	WATS_T2	9	24	15	0.49	0.29	-0.2	0	0	0	0	0	0	0	0
8/6/2024 14:09	43301	WATS_T2	0	1	1	0	0	0	0.1	0.09	1	1	0	900	900	0
8/6/2024 14:09	65802	RTWN_T2	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
8/6/2024 14:10	46205	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 14:10	46206	DANV_T2	66	96	30	0.78	0.81	0.03	0	0	0	0	0	0	0	0
8/6/2024 14:10	46204	DANV_T2	53	81	28	0.38	0.42	0.04	0	0	0	0	0	0	0	0
8/6/2024 14:10	46203	DANV_T2	2	7	5	0.2	0.47	0.27	-2.12	-3.88	0	0	0	0	0	0
8/6/2024 14:11	45502	DERR_T2	187	177	-10	1.01	0.82	-0.19	0	0	0	0	0	0	0	0
8/6/2024 14:11	59101	WALK_T2	12	6	-6	0.46	0.58	0.12	0.56	0.6	4	4	0	2400	2400	0
8/6/2024 14:11	45501	DERR_T2	37	46	9	0.69	0.63	-0.06	1.66	2.68	4	4	0	3600	3600	0
8/6/2024 14:12	45501	DERR_T2	37	46	9	0.69	0.63	-0.06	1.33	1.34	2	2	0	1800	1800	0
8/6/2024 14:12	67801	WLAN_T1	123	198	75	0.56	0.53	-0.03	-0.63	-0.65	0	0	0	0	0	0
8/6/2024 14:12	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 14:12	67804	WLAN_T1	10	10	0	2.83	2.25	-0.58	0	0	0	0	0	0	0	0
8/6/2024 14:12	46206	DANV_T2	66	96	30	0.78	0.81	0.03	0	0	0	0	0	0	0	0
8/6/2024 14:12	45502	DERR_T2	187	177	-10	1.01	0.82	-0.19	0	0	0	0	0	0	0	0
8/6/2024 14:12	46204	DANV_T2	53	81	28	0.38	0.42	0.04	0	0	0	0	0	0	0	0
8/6/2024 14:12	46203	DANV_T2	2	7	5	0.2	0.47	0.27	-1.06	-1.94	0	0	0	0	0	0
8/6/2024 14:12	46205	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 14:13	46204	DANV_T2	53	81	28	0.38	0.42	0.04	0	0	0	0	0	0	0	0
8/6/2024 14:13	46203	DANV_T2	2	7	5	0.2	0.47	0.27	-1.06	-1.94	0	0	0	0	0	0
8/6/2024 14:13	46205	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 14:13	46206	DANV_T2	66	96	30	0.78	0.81	0.03	0	0	0	0	0	0	0	0
8/6/2024 14:14	24702	FLND_T2	0	0	0	0	0	0	0.94	1.06	1	1	0	1200	1200	0
8/6/2024 14:14	44301	BEAV_T2	2	2	0	0.85	0.3	-0.55	0	0	0	0	0	0	0	0
8/6/2024 14:14	61704	ELIZ_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 14:14	46203	DANV_T2	2	7	5	0.2	0.47	0.27	-1.06	-1.94	0	0	0	0	0	0
8/6/2024 14:14	46204	DANV_T2	53	81	28	0.38	0.42	0.04	0	0	0	0	0	0	0	0
8/6/2024 14:14	61702	ELIZ_T2	11	18	7	0.48	0.23	-0.25	-0.88	-0.95	2	2	0	1500	1500	0
8/6/2024 14:14	61703	ELIZ_T1	12	16	4	0.46	0.31	-0.15	0	0	0	0	0	0	0	0
8/6/2024 14:14	61701	ELIZ_T1	2	2	0	0.3	0.3	0	1.55	1.47	0	0	0	0	0	0
8/6/2024 14:14	46206	DANV_T2	66	96	30	0.78	0.81	0.03	0	0	0	0	0	0	0	0
8/6/2024 14:14	24701	FLND_T2	5	2	-3	0.12	0	-0.12	0	0	0	0	0	0	0	0
8/6/2024 14:14	46205	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 14:14	24703	FLND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/6/2024 14:15	61703	ELIZ_T1	11	13	2	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
8/6/2024 14:15	61701	ELIZ_T1	2	3	1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
8/6/2024 14:15	53802	MBRG_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
8/6/2024 14:15	47202	FAXO_T2	0	0	0	0	0	0	-1.66	-1.63	0	0	0	0	0	0
8/6/2024 14:16	61704	ELIZ_T2	2	2	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 14:16	46803	HEPB_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/6/2024 14:16	67602	WARW_T2	0	2	2	0	0	0	0.08	0.38	2	2	0	1500	1500	0
8/6/2024 14:16	46801	HEPB_T2	3	3	0	0.57	0.5	-0.07	0.46	0.47	0	0	0	0	0	0
8/6/2024 14:16	61702	ELIZ_T2	17	13	-4	0.42	0.23	-0.19	-0.88	-0.95	2	2	0	1500	1500	0
8/6/2024 14:17	61703	ELIZ_T1	11	13	2	0.34	0.1	-0.24	-2.18	-2.17	2	2	0	2100	2100	0
8/6/2024 14:17	61701	ELIZ_T1	2	3	1	0.45	0.2	-0.25	1.55	1.47	0	0	0	0	0	0
8/6/2024 14:19	46101	MACI_T2	1	1	0	0.1	0.1	0	0.15	0.1	1	1	0	1200	1200	0
8/6/2024 14:20	66901	SHIL_T2	0	0	0	0	0	0	-1.1	-1.57	1	1	0	1200	1200	0
8/6/2024 14:21	58402	MORO_T1	1	3	2	0.3	0.1	-0.2	0.2	0.15	3	3	0	2400	2400	0
8/6/2024 14:22	58302	NOTT_T1	0	0	0	0	0	0	-1	-0.94	2	2	0	2100	2100	0
8/6/2024 14:24	42503	ALTA_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
8/6/2024 14:26	43101	SMIL_T2	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/6/2024 14:26	43103	SMIL_T2	0	0	0	0	0	0	-3.91	-4.01	0	0	0	0	0	0
8/6/2024 14:29	24102	EHAZ_T1	4	3	-1	1.13	1.1	-0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/6/2024 14:29	24105	EHAZ_T1	4	4	0	6.55	6.55	0	0	0	0	0	0	0	0	0
8/6/2024 14:29	24104	EHAZ_T1	0	0	0	0	0	0	-1.24	-1.22	1	1	0	1200	1200	0
8/6/2024 14:29	24101	EHAZ_T1	147	118	-29	1.14	1.37	0.23	0	0	0	0	0	0	0	0
8/6/2024 14:30	52403	GRPA_T2	8	14	6	0.64	0.93	0.29	0	0	0	0	0	0	0	0
8/6/2024 14:30	52402	GRPA_T2	0	12	12	0	0.27	0.27	-0.33	-0.28	0	0	0	0	0	0
8/6/2024 14:30	52404	GRPA_T2	10	11	1	0.38	0.26	-0.12	0	0	0	0	0	0	0	0
8/6/2024 14:30	52401	GRPA_T2	5	39	34	0.38	0.44	0.06	0	0	0	0	0	0	0	0
8/6/2024 14:31	51002	NHAR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 14:31	51003	NHAR_T1	0	0	0	0	0	0	-1.84	-2.1	1	1	0	1200	1200	0
8/6/2024 14:31	51004	NHAR_T1	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
8/6/2024 14:32	44702	MUNC_T2	0	5	5	0	0.43	0.43	0	0	0	0	0	0	0	0
8/6/2024 14:32	44703	MUNC_T2	1	6	5	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/6/2024 14:33	64204	KINZ_T1	144	65	-79	0.57	0.69	0.12	0	0	0	0	0	0	0	0
8/6/2024 14:33	64203	KINZ_T1	359	166	-193	0.66	0.82	0.16	0.85	0.76	3	3	0	2100	2100	0
8/6/2024 14:33	64201	KINZ_T1	479	388	-91	1.5	0.44	-1.06	0	0	0	0	0	0	0	0
8/6/2024 14:33	64202	KINZ_T1	58	50	-8	1.33	0.46	-0.87	0	0	0	0	0	0	0	0
8/6/2024 14:34	52401	GRPA_T2	5	39	34	0.38	0.44	0.06	0	0	0	0	0	0	0	0
8/6/2024 14:34	52403	GRPA_T2	8	14	6	0.64	0.93	0.29	-0.47	-0.45	0	0	0	0	0	0
8/6/2024 14:34	44703	MUNC_T2	1	6	5	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/6/2024 14:34	52404	GRPA_T2	10	11	1	0.38	0.26	-0.12	0	0	0	0	0	0	0	0
8/6/2024 14:34	44702	MUNC_T2	0	5	5	0	0.43	0.43	0	0	0	0	0	0	0	0
8/6/2024 14:34	52402	GRPA_T2	0	12	12	0	0.27	0.27	-0.67	-0.55	0	0	0	0	0	0
8/6/2024 14:35	52403	GRPA_T2	8	14	6	0.64	0.93	0.29	0	0	0	0	0	0	0	0
8/6/2024 14:35	52401	GRPA_T2	5	39	34	0.38	0.44	0.06	0	0	0	0	0	0	0	0
8/6/2024 14:35	52402	GRPA_T2	0	12	12	0	0.27	0.27	-0.33	-0.28	0	0	0	0	0	0
8/6/2024 14:35	52404	GRPA_T2	10	11	1	0.38	0.26	-0.12	0	0	0	0	0	0	0	0
8/6/2024 14:38	50701	SMEC_T1	1	0	-1	0.2	0	-0.2	-1.09	-1.15	2	2	0	2100	2100	0
8/6/2024 14:39	66701	STRA_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/6/2024 14:39	66702	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 14:39	66703	STRA_T1	35	44	9	0.53	0.45	-0.08	0.35	0.33	0	0	0	0	0	0
8/6/2024 14:40	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/6/2024 14:41	57106	SPHI_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
8/6/2024 14:41	57104	SPHI_T2	0	0	0	0	0	0	-1.76	-1.74	1	1	0	900	900	0
8/6/2024 14:42	57002	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 14:42	57006	WHHI_T2	0	0	0	0	0	0	2.04	2.12	2	2	0	1200	1200	0
8/6/2024 14:47	59003	MIFF_T1	0	4	4	0	0.3	0.3	-0.8	-0.64	0	0	0	0	0	0
8/6/2024 14:47	43202	MVIL_T2	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
8/6/2024 14:47	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 14:47	45801	HEGI_T1	0	0	0	0	0	0	0.23	0.2	1	1	0	900	900	0
8/6/2024 14:48	57702	PAKT_T1	0	0	0	0	0	0	-0.9	0.01	0	0	0	0	0	0
8/6/2024 14:49	40101	HUNT_T2	26	19	-7	0.48	0.57	0.09	-1	-0.99	0	0	0	0	0	0
8/6/2024 14:49	43202	MVIL_T2	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
8/6/2024 14:49	45801	HEGI_T1	0	0	0	0	0	0	0.23	0.2	1	1	0	900	900	0
8/6/2024 14:49	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 14:50	40101	HUNT_T2	26	19	-7	0.48	0.57	0.09	-1	-0.99	0	0	0	0	0	0
8/6/2024 14:50	57602	RUTH_T2	0	0	0	0	0	0	-0.85	-1.32	0	0	0	0	0	0
8/6/2024 14:50	57603	RUTH_T2	3	8	5	0.87	0.76	-0.11	0	0	0	0	0	0	0	0
8/6/2024 14:50	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 14:50	40502	CRES_T2	6	11	5	0.25	0.33	0.08	-1.21	-1.13	0	0	0	0	0	0
8/6/2024 14:51	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 14:51	57602	RUTH_T2	0	0	0	0	0	0	-0.28	-0.44	0	0	0	0	0	0
8/6/2024 14:51	57603	RUTH_T2	3	8	5	0.87	0.76	-0.11	0	0	0	0	0	0	0	0
8/6/2024 14:51	61402	SLIT_T1	5	2	-3	0.26	8.2	7.94	0	0	0	0	0	0	0	0
8/6/2024 14:52	57603	RUTH_T2	3	8	5	0.87	0.76	-0.11	0	0	0	0	0	0	0	0
8/6/2024 14:52	57601	RUTH_T2	0	0	0	0	0	0	-1.1	-1.49	1	1	0	900	900	0
8/6/2024 14:53	57603	RUTH_T2	3	8	5	0.87	0.76	-0.11	0	0	0	0	0	0	0	0
8/6/2024 14:53	57601	RUTH_T2	0	0	0	0	0	0	-3.31	-4.48	3	3	0	2700	2700	0
8/6/2024 14:53	57602	RUTH_T2	0	0	0	0	0	0	-0.88	-1	0	0	0	0	0	0
8/6/2024 14:54	60301	TWVA_T2	1	2	1	0.7	0.2	-0.5	-2.74	-2.79	2	2	0	1800	1800	0
8/6/2024 14:54	57602	RUTH_T2	0	0	0	0	0	0	-0.88	-1	0	0	0	0	0	0
8/6/2024 14:54	57601	RUTH_T2	0	0	0	0	0	0	-3.31	-4.48	3	3	0	2700	2700	0
8/6/2024 14:54	48602	POQA_T1	0	0	0	0	0	0	0.74	0.83	2	2	0	2400	2400	0
8/6/2024 14:54	57603	RUTH_T2	3	8	5	0.87	0.76	-0.11	0	0	0	0	0	0	0	0
8/6/2024 14:55	57603	RUTH_T2	3	8	5	0.87	0.76	-0.11	0	0	0	0	0	0	0	0
8/6/2024 14:55	57602	RUTH_T2	0	0	0	0	0	0	-0.44	-0.5	0	0	0	0	0	0
8/6/2024 15:02	64704	LITI_T1	0	0	0	0	0	0	0.59	0.62	1	1	0	600	600	0
8/6/2024 15:02	64701	LITI_T1	13	13	0	1.72	0.57	-1.15	0	0	0	0	0	0	0	0
8/6/2024 15:02	64201	KINZ_T1	212	25	-187	0.46	0	-0.46	0	0	0	0	0	0	0	0
8/6/2024 15:02	64202	KINZ_T1	36	1	-35	0.46	0	-0.46	0	0	0	0	0	0	0	0
8/6/2024 15:02	64203	KINZ_T1	125	26	-99	0.86	1.2	0.34	0.77	0.76	3	3	0	2100	2100	0
8/6/2024 15:02	64204	KINZ_T1	37	10	-27	0.7	0.7	0	0	0	0	0	0	0	0	0
8/6/2024 15:03	64704	LITI_T1	0	0	0	0	0	0	0.59	0.62	1	1	0	600	600	0
8/6/2024 15:03	64701	LITI_T1	13	13	0	1.72	0.57	-1.15	0	0	0	0	0	0	0	0
8/6/2024 15:09	59202	THOM_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 15:11	59202	THOM_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 15:11	53601	DALM_T2	1	1	0	0.6	0.8	0.2	-0.83	-0.86	2	2	0	1500	1500	0
8/6/2024 15:14	41304	FISH_T2	5	3	-2	0.43	0.25	-0.18	0.17	0.12	0	0	0	0	0	0
8/6/2024 15:14	41302	FISH_T2	18	17	-1	4.98	2.69	-2.29	0	0	0	0	0	0	0	0
8/6/2024 15:14	52204	DEVO_T2	5	6	1	0.86	0.96	0.1	0	0	0	0	0	0	0	0
8/6/2024 15:14	52202	DEVO_T2	0	0	0	0	0	0	-1.59	-1.58	0	0	0	0	0	0
8/6/2024 15:16	41304	FISH_T2	3	4	1	0.4	0.25	-0.15	0.17	0.12	0	0	0	0	0	0
8/6/2024 15:16	41302	FISH_T2	17	17	0	2.91	2.69	-0.22	0	0	0	0	0	0	0	0
8/6/2024 15:18	41801	GOCI_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 15:19	65601	QVIL_T2	0	0	0	0	0	0	0.57	0.54	1	1	0	900	900	0
8/6/2024 15:21	52004	LING_T2	2	2	0	4.85	5.05	0.2	0.52	0.52	0	0	0	0	0	0
8/6/2024 15:21	52002	LING_T2	3	20	17	0.1	0.14	0.04	0	0	0	0	0	0	0	0
8/6/2024 15:22	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 15:24	20403	ASHF_T2	7	7	0	0.67	0	-0.67	0.43	0.42	0	0	0	0	0	0
8/6/2024 15:24	20401	ASHF_T2	7	5	-2	0.61	0.5	-0.11	0	0	0	0	0	0	0	0
8/6/2024 15:24	20402	ASHF_T2	12	25	13	0.35	1.65	1.3	0	0	0	0	0	0	0	0
8/6/2024 15:25	20402	ASHF_T2	12	25	13	0.35	1.65	1.3	0	0	0	0	0	0	0	0
8/6/2024 15:25	20403	ASHF_T2	7	7	0	0.67	0	-0.67	0.43	0.42	0	0	0	0	0	0
8/6/2024 15:25	20401	ASHF_T2	7	5	-2	0.61	0.5	-0.11	0	0	0	0	0	0	0	0
8/6/2024 15:28	20403	ASHF_T2	7	7	0	0.67	0	-0.67	0.43	0.42	0	0	0	0	0	0
8/6/2024 15:28	20402	ASHF_T2	12	25	13	0.35	1.65	1.3	0	0	0	0	0	0	0	0
8/6/2024 15:28	20401	ASHF_T2	7	5	-2	0.61	0.5	-0.11	0	0	0	0	0	0	0	0
8/6/2024 15:33	40101	HUNT_T2	43	27	-16	0.47	0.61	0.14	0	0	0	0	0	0	0	0
8/6/2024 15:33	52002	LING_T2	13	29	16	0.14	0.31	0.17	0	0	0	0	0	0	0	0
8/6/2024 15:33	52004	LING_T2	2	2	0	5.05	4.85	-0.2	0.52	0.52	0	0	0	0	0	0
8/6/2024 15:36	40101	HUNT_T2	43	27	-16	0.47	0.61	0.14	-1.82	-1.94	0	0	0	0	0	0
8/6/2024 15:37	59202	THOM_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
8/6/2024 15:39	42701	AUGU_T1	30	40	10	0.45	0.42	-0.03	0	0	0	0	0	0	0	0
8/6/2024 15:39	42201	SHEN_T2	0	0	0	0	0	0	0.45	0.46	1	1	0	600	600	0
8/6/2024 15:40	59202	THOM_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
8/6/2024 15:41	42701	AUGU_T1	30	40	10	0.45	0.42	-0.03	0	0	2	2	0	1800	1800	0
8/6/2024 15:42	46204	DANV_T2	132	119	-13	0.77	0.44	-0.33	0	0	0	0	0	0	0	0
8/6/2024 15:42	46203	DANV_T2	7	1	-6	0.71	0	-0.71	-0.62	-0.51	0	0	0	0	0	0
8/6/2024 15:42	46205	DANV_T2	2	2	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
8/6/2024 15:42	46206	DANV_T2	113	79	-34	1.02	0.56	-0.46	0	0	0	0	0	0	0	0
8/6/2024 15:43	51604	DUKE_T2	0	9	9	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
8/6/2024 15:45	46205	DANV_T2	2	1	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/6/2024 15:45	46206	DANV_T2	76	69	-7	0.74	0.53	-0.21	0	0	0	0	0	0	0	0
8/6/2024 15:45	45801	HEGI_T1	0	0	0	0	0	0	0.18	0.12	1	1	0	900	900	0
8/6/2024 15:45	46204	DANV_T2	119	71	-48	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
8/6/2024 15:45	46203	DANV_T2	1	0	-1	0.2	0	-0.2	-0.62	-0.51	0	0	0	0	0	0
8/6/2024 15:46	45802	HEGI_T2	12	22	10	0.48	0.56	0.08	0.93	0.96	4	4	0	2400	2400	0
8/6/2024 15:46	65502	MOJO_T2	0	0	0	0	0	0	-0.77	-0.98	1	1	0	900	900	0
8/6/2024 15:47	25402	LAHA_T2	0	0	0	0	0	0	-0.25	-0.01	0	0	0	0	0	0
8/6/2024 15:48	51401	LYKE_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
8/6/2024 15:50	60502	NMAN_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
8/6/2024 15:51	61404	SLIT_T1	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
8/6/2024 15:51	61402	SLIT_T1	1	1	0	8.5	4.5	-4	0	0	0	0	0	0	0	0
8/6/2024 15:56	20402	ASHF_T2	24	34	10	1.51	1.19	-0.32	0	0	0	0	0	0	0	0
8/6/2024 15:56	20401	ASHF_T2	3	15	12	0.4	0.76	0.36	0	0	0	0	0	0	0	0
8/6/2024 15:56	49803	UNIV_T1	1	3	2	7	6.7	-0.3	0	0	0	0	0	0	0	0
8/6/2024 15:56	49804	UNIV_T1	1	2	1	1	0.4	-0.6	1.58	1.61	0	0	0	0	0	0
8/6/2024 15:56	20403	ASHF_T2	7	30	23	0.13	0.29	0.16	0.07	0.07	0	0	0	0	0	0
8/6/2024 15:56	40201	BEGA_T2	8	20	12	1.04	0.84	-0.2	0	0	0	0	0	0	0	0
8/6/2024 15:59	51202	MTON_T2	0	0	0	0	0	0	0.8	0.81	0	0	0	0	0	0
8/6/2024 16:02	26402	INOR_T1	23	37	14	0.51	0.38	-0.13	-1.27	-1.21	1	1	0	600	600	0
8/6/2024 16:02	26401	INOR_T1	10	15	5	1.16	1.5	0.34	0	0	0	0	0	0	0	0
8/6/2024 16:02	40101	HUNT_T2	17	117	100	0.65	0.44	-0.21	-1.16	-1.17	0	0	0	0	0	0
8/6/2024 16:08	55001	NEWP_T1	1	2	1	0.6	0.55	-0.05	-0.46	-0.49	1	1	0	600	600	0
8/6/2024 16:19	22701	MINO_T1	0	0	0	0	0	0	-0.3	-0.32	1	1	0	600	600	0
8/6/2024 16:21	64101	REFR_T1	0	4	4	0	0	0	0.06	0.01	0	0	0	0	0	0
8/6/2024 16:22	64101	REFR_T1	0	4	4	0	0	0	0.12	0.03	0	0	0	0	0	0
8/6/2024 16:23	44902	SCOT_T2	0	2	2	0	0.1	0.1	-0.31	-0.36	0	0	0	0	0	0
8/6/2024 16:23	64101	REFR_T1	0	4	4	0	0	0	0.06	0.01	0	0	0	0	0	0
8/6/2024 16:24	44902	SCOT_T2	0	2	2	0	0.1	0.1	-0.31	-0.36	0	0	0	0	0	0
8/6/2024 16:24	64101	REFR_T1	0	4	4	0	0	0	0.06	0.01	0	0	0	0	0	0
8/6/2024 16:26	64101	REFR_T1	0	4	4	0	0	0	0.18	0.04	0	0	0	0	0	0
8/6/2024 16:26	41602	CLEV_T1	86	111	25	0.65	0.45	-0.2	0	0	1	1	0	600	600	0
8/6/2024 16:29	29401	BELT_T1	19	23	4	0.29	0.23	-0.06	0	0	1	1	0	900	900	0
8/6/2024 16:29	29402	BELT_T1	12	2	-10	1.11	4.75	3.64	0	0	0	0	0	0	0	0
8/6/2024 16:33	52404	GRPA_T2	8	21	13	0.46	0.2	-0.26	0	0	0	0	0	0	0	0
8/6/2024 16:33	52403	GRPA_T2	97	100	3	1.96	1.58	-0.38	-0.03	-0.09	0	0	0	0	0	0
8/6/2024 16:33	52401	GRPA_T2	96	96	0	1.09	1.1	0.01	0	0	0	0	0	0	0	0
8/6/2024 16:33	52402	GRPA_T2	44	31	-13	0.59	0.75	0.16	0	0	0	0	0	0	0	0
8/6/2024 16:38	59003	MIFF_T1	6	2	-4	0.62	0	-0.62	-0.01	-0.23	0	0	0	0	0	0
8/6/2024 16:41	20402	ASHF_T2	42	54	12	1.07	0.67	-0.4	0	0	0	0	0	0	0	0
8/6/2024 16:41	20401	ASHF_T2	26	24	-2	0.85	0.71	-0.14	0	0	0	0	0	0	0	0
8/6/2024 16:41	20403	ASHF_T2	85	137	52	0.71	0.68	-0.03	0.14	0.25	0	0	0	0	0	0
8/6/2024 16:42	67605	WARW_T1	0	3	3	0	0.83	0.83	-0.36	-0.36	0	0	0	0	0	0
8/6/2024 16:43	20401	ASHF_T2	26	24	-2	0.85	0.71	-0.14	0	0	0	0	0	0	0	0
8/6/2024 16:43	20403	ASHF_T2	85	137	52	0.71	0.68	-0.03	0.14	0.25	0	0	0	0	0	0
8/6/2024 16:43	20402	ASHF_T2	42	54	12	1.07	0.67	-0.4	0	0	0	0	0	0	0	0
8/6/2024 16:44	16504	STRO_T1	2	3	1	0.65	0.45	-0.2	1.1	1.08	0	0	0	0	0	0
8/6/2024 16:44	63305	GREE_T1	7	7	0	0.17	0.23	0.06	0	0	0	0	0	0	0	0
8/6/2024 16:44	63306	GREE_T1	0	0	0	0	0	0	-1.53	-1.56	1	1	0	900	900	0
8/6/2024 16:44	16505	STRO_T1	12	12	0	5.49	3.58	-1.91	0	0	0	0	0	0	0	0
8/6/2024 16:46	40802	EXCH_T2	0	0	0	0	0	0	-1.2	-1.21	0	0	0	0	0	0
8/6/2024 16:46	40801	EXCH_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
8/6/2024 16:48	47001	HUGH_T2	20	3	-17	1.27	6.93	5.66	-1.01	-0.45	1	0	-1	900	0	-900

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/6/2024 16:49	65904	SAKR_T2	0	0	0	0	0	0	-1.59	-1.6	3	3	0	1500	1500	0
8/6/2024 16:49	64902	MILL_T2	0	0	0	0	0	0	-0.48	-0.51	1	1	0	900	900	0
8/6/2024 16:49	65901	SAKR_T2	1	1	0	8.2	8.1	-0.1	0	0	0	0	0	0	0	0
8/6/2024 16:49	64903	MILL_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 16:51	51401	LYKE_T1	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
8/6/2024 16:54	20403	ASHF_T2	96	150	54	0.7	0.75	0.05	0.25	0.32	0	0	0	0	0	0
8/6/2024 16:54	20402	ASHF_T2	41	56	15	0.65	0.73	0.08	0	0	0	0	0	0	0	0
8/6/2024 16:54	20401	ASHF_T2	19	28	9	0.69	0.57	-0.12	0	0	0	0	0	0	0	0
8/6/2024 16:55	22701	MINO_T1	0	0	0	0	0	0	-0.35	-0.33	1	1	0	600	600	0
8/6/2024 16:57	20401	ASHF_T2	19	28	9	0.69	0.57	-0.12	0	0	0	0	0	0	0	0
8/6/2024 16:57	20403	ASHF_T2	96	150	54	0.7	0.75	0.05	0.25	0.32	0	0	0	0	0	0
8/6/2024 16:57	20402	ASHF_T2	41	56	15	0.65	0.73	0.08	0	0	0	0	0	0	0	0
8/6/2024 16:58	22903	HARW_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/6/2024 16:58	22901	HARW_T1	9	9	0	0.69	0.43	-0.26	-0.18	-0.04	1	1	0	1200	1200	0
8/6/2024 16:58	22905	HARW_T1	12	5	-7	0.22	0	-0.22	0	0	0	0	0	0	0	0
8/6/2024 17:00	62102	ELAN_T1	0	0	0	0	0	0	1.07	0.93	0	0	0	0	0	0
8/6/2024 17:05	66902	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/6/2024 17:05	64305	LINC_T1	1	1	0	0.9	1.4	0.5	0	0	0	0	0	0	0	0
8/6/2024 17:05	66901	SHIL_T2	60	49	-11	0.15	0.13	-0.02	-0.63	-0.63	1	1	0	1200	1200	0
8/6/2024 17:05	64303	LINC_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
8/6/2024 17:08	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/6/2024 17:08	56504	ROCK_T2	12	60	48	0.71	0.57	-0.14	0	0	0	0	0	0	0	0
8/6/2024 17:08	56501	ROCK_T2	6	12	6	0.63	0.32	-0.31	-1.13	-1.17	0	0	0	0	0	0
8/6/2024 17:09	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/6/2024 17:09	59202	THOM_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 17:09	56504	ROCK_T2	12	60	48	0.71	0.57	-0.14	0	0	0	0	0	0	0	0
8/6/2024 17:09	56501	ROCK_T2	6	12	6	0.63	0.32	-0.31	-2.26	-2.34	0	0	0	0	0	0
8/6/2024 17:10	20401	ASHF_T2	19	31	12	0.71	0.55	-0.16	0	0	0	0	0	0	0	0
8/6/2024 17:10	20402	ASHF_T2	48	70	22	0.73	0.83	0.1	0	0	0	0	0	0	0	0
8/6/2024 17:10	20403	ASHF_T2	131	148	17	0.76	1.27	0.51	0.32	0.32	0	0	0	0	0	0
8/6/2024 17:11	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/6/2024 17:11	56501	ROCK_T2	6	12	6	0.63	0.32	-0.31	-1.13	-1.17	0	0	0	0	0	0
8/6/2024 17:11	56504	ROCK_T2	12	60	48	0.71	0.57	-0.14	0	0	0	0	0	0	0	0
8/6/2024 17:12	20401	ASHF_T2	19	31	12	0.71	0.55	-0.16	0	0	0	0	0	0	0	0
8/6/2024 17:12	20403	ASHF_T2	131	148	17	0.76	1.27	0.51	0.32	0.32	0	0	0	0	0	0
8/6/2024 17:12	20402	ASHF_T2	48	70	22	0.73	0.83	0.1	0	0	0	0	0	0	0	0
8/6/2024 17:13	59202	THOM_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 17:15	59202	THOM_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/6/2024 17:23	58203	NEWV_T2	121	165	44	1.51	1.41	-0.1	-0.65	-0.62	0	0	0	0	0	0
8/6/2024 17:24	67103	SPRI_T1	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
8/6/2024 17:28	40802	EXCH_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/6/2024 17:28	40801	EXCH_T2	1	2	1	0.1	0.3	0.2	0.49	0.26	1	1	0	1200	1200	0
8/6/2024 17:30	43202	MVIL_T2	0	1	1	0	0.1	0.1	-0.47	-0.45	0	0	0	0	0	0
8/6/2024 17:30	53501	EVIL_T2	2	1	-1	0.6	0.9	0.3	-0.01	-0.01	2	2	0	1200	1200	0
8/6/2024 17:34	56503	ROCK_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/6/2024 17:34	56501	ROCK_T2	6	6	0	0.32	0.33	0.01	0	0	0	0	0	0	0	0
8/6/2024 17:34	56504	ROCK_T2	33	3	-30	0.65	0	-0.65	-0.28	0.9	0	0	0	0	0	0
8/6/2024 17:35	56504	ROCK_T2	33	3	-30	0.65	0	-0.65	-0.28	0.9	0	0	0	0	0	0
8/6/2024 17:35	53502	EVIL_T2	0	0	0	0	0	0	-1.03	-1.07	3	3	0	2100	2100	0
8/6/2024 17:35	56503	ROCK_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/6/2024 17:35	56501	ROCK_T2	6	6	0	0.32	0.33	0.01	0	0	0	0	0	0	0	0
8/6/2024 17:35	53501	EVIL_T2	2	1	-1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
8/6/2024 17:39	56504	ROCK_T2	33	3	-30	0.65	0	-0.65	0.9	-0.24	0	0	0	0	0	0
8/6/2024 17:39	56503	ROCK_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/6/2024 17:39	56501	ROCK_T2	6	6	0	0.32	0.33	0.01	0.18	-4.03	0	0	0	0	0	0
8/6/2024 17:40	53502	EVIL_T2	0	0	0	0	0	0	-1.07	-0.75	3	2	-1	2100	1500	-600
8/6/2024 17:40	53501	EVIL_T2	2	1	-1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
8/6/2024 17:41	56504	ROCK_T2	33	3	-30	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/6/2024 17:41	56503	ROCK_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/6/2024 17:41	56501	ROCK_T2	6	6	0	0.32	0.33	0.01	0.06	-1.34	0	0	0	0	0	0
8/6/2024 17:42	56501	ROCK_T2	6	6	0	0.32	0.33	0.01	0.06	-1.34	0	0	0	0	0	0
8/6/2024 17:42	56504	ROCK_T2	33	3	-30	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/6/2024 17:42	56503	ROCK_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/6/2024 17:46	58202	NEWV_T1	206	11	-195	7.14	1.11	-6.03	0	0.06	0	0	0	0	0	0
8/6/2024 17:46	58201	NEWV_T1	23	0	-23	0.41	0	-0.41	0	0	0	0	0	0	0	0
8/6/2024 17:47	56503	ROCK_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/6/2024 17:47	56501	ROCK_T2	3	4	1	0.27	0.28	0.01	0	0	0	0	0	0	0	0
8/6/2024 17:47	56504	ROCK_T2	3	0	-3	0.5	0	-0.5	0.9	-0.24	0	0	0	0	0	0
8/6/2024 17:48	56503	ROCK_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/6/2024 17:48	56501	ROCK_T2	3	4	1	0.27	0.28	0.01	0	0	0	0	0	0	0	0
8/6/2024 17:48	56504	ROCK_T2	3	0	-3	0.5	0	-0.5	0.9	-0.24	0	0	0	0	0	0
8/6/2024 17:58	29402	BELT_T1	1	12	11	8.5	0.96	-7.54	0	0	0	0	0	0	0	0
8/6/2024 17:58	29401	BELT_T1	16	41	25	0.21	0.34	0.13	0	0	1	1	0	900	900	0
8/6/2024 18:01	56501	ROCK_T2	3	37	34	0.33	0.21	-0.12	-1.34	-1.42	0	0	0	0	0	0
8/6/2024 18:02	63501	HEID_TBK1-2	48	48	0	1.61	1.56	-0.05	0.09	0.04	1	1	0	900	900	0
8/6/2024 18:07	46101	MACI_T2	0	0	0	0	0	0	0.81	0.78	0	0	0	0	0	0
8/6/2024 18:09	41801	GOCI_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
8/6/2024 18:15	56504	ROCK_T2	0	1	1	0	0	0	-0.38	-0.45	0	0	0	0	0	0
8/6/2024 18:15	56501	ROCK_T2	5	147	142	0.82	0.3	-0.52	0	0	0	0	0	0	0	0
8/6/2024 18:17	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 18:17	65004	NEFF_T2	0	0	0	0	0	0	-0.43	-0.41	1	1	0	600	600	0
8/6/2024 18:25	67501	WEWI_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
8/6/2024 18:25	67505	WEWI_T1	0	0	0	0	0	0	0.99	0.87	1	1	0	900	900	0
8/6/2024 18:28	62102	ELAN_T1	0	0	0	0	0	0	0.9	0.82	0	0	0	0	0	0
8/6/2024 18:28	62101	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 18:31	51004	NHAR_T1	577	1	-576	2.8	6.4	3.6	0	0	0	0	0	0	0	0
8/6/2024 18:31	51002	NHAR_T1	17	1	-16	3.86	0	-3.86	0	0	0	0	0	0	0	0
8/6/2024 18:31	51003	NHAR_T1	1046	1	-1045	2.9	0	-2.9	0	0	1	1	0	1200	1200	0
8/6/2024 18:34	61701	ELIZ_T1	1	1	0	3.1	3.3	0.2	1.28	0.23	0	0	0	0	0	0
8/6/2024 18:35	61701	ELIZ_T1	1	1	0	3.1	3.3	0.2	1.28	0.23	0	0	0	0	0	0
8/6/2024 18:37	61701	ELIZ_T1	1	1	0	3.1	3.3	0.2	0.23	0.74	0	0	0	0	0	0
8/6/2024 18:37	58202	NEWV_T1	129	130	1	2.12	2.02	-0.1	0.07	0.09	0	0	0	0	0	0
8/6/2024 18:38	61701	ELIZ_T1	1	1	0	3.1	3.3	0.2	0.23	0.74	0	0	0	0	0	0
8/6/2024 18:38	67503	WEWI_T2	3	1	-2	1.3	4.1	2.8	0.68	0.72	0	0	0	0	0	0
8/6/2024 18:55	65901	SAKR_T2	1	1	0	7.2	7.7	0.5	0	0	0	0	0	0	0	0
8/6/2024 18:55	65902	SAKR_T2	1	1	0	0.2	0	-0.2	-0.18	-0.07	1	1	0	300	300	0
8/6/2024 18:55	45602	WOOL_T1	0	0	0	0	0	0	1	1.02	0	0	0	0	0	0
8/6/2024 18:55	65903	SAKR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 18:58	45602	WOOL_T1	0	0	0	0	0	0	1	1.02	0	0	0	0	0	0
8/6/2024 19:06	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/6/2024 19:14	52202	DEVO_T2	0	676	676	0	0	0	-1.84	-0.05	0	0	0	0	0	0
8/6/2024 19:14	52204	DEVO_T2	4	7	3	1.43	1.78	0.35	0	0	0	0	0	0	0	0
8/6/2024 19:15	52204	DEVO_T2	7	6	-1	2.63	1.07	-1.56	0	0	0	0	0	0	0	0
8/6/2024 19:15	52202	DEVO_T2	666	1	-665	4.06	0	-4.06	-1.84	-0.05	0	0	0	0	0	0
8/6/2024 19:17	64902	MILL_T2	0	0	0	0	0	0	-0.58	-0.29	1	1	0	900	900	0
8/6/2024 19:17	64903	MILL_T2	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
8/6/2024 19:18	52204	DEVO_T2	7	6	-1	2.63	1.07	-1.56	0	0	0	0	0	0	0	0
8/6/2024 19:18	52202	DEVO_T2	666	1	-665	4.06	0	-4.06	-1.84	-0.05	0	0	0	0	0	0
8/6/2024 19:37	52202	DEVO_T2	1	0	-1	4.4	0	-4.4	-1.35	-1.34	0	0	0	0	0	0
8/6/2024 19:37	52204	DEVO_T2	6	6	0	1.78	1.1	-0.68	0	0	0	0	0	0	0	0
8/6/2024 19:51	52204	DEVO_T2	6	5	-1	1.07	0.68	-0.39	0	0	0	0	0	0	0	0
8/6/2024 19:51	52202	DEVO_T2	0	0	0	0	0	0	-1.35	-1.34	0	0	0	0	0	0
8/6/2024 20:07	42801	SELI_T1	0	0	0	0	0	0	-0.47	-0.53	1	1	0	1200	1200	0
8/6/2024 20:13	61704	ELIZ_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/6/2024 20:13	61702	ELIZ_T2	0	0	0	0	0	0	-1.41	-1.43	2	2	0	1500	1500	0
8/6/2024 20:14	61701	ELIZ_T1	1	1	0	4	4.4	0.4	0	0	0	0	0	0	0	0
8/6/2024 20:14	61703	ELIZ_T1	0	0	0	0	0	0	-3.52	-3.55	2	2	0	1800	1800	0
8/6/2024 20:14	57601	RUTH_T2	0	0	0	0	0	0	-0.77	-0.86	1	1	0	900	900	0
8/6/2024 20:19	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
8/6/2024 20:19	64201	KINZ_T1	1	1	0	0.1	0.8	0.7	-0.63	-0.67	6	6	0	3000	3000	0
8/6/2024 20:21	61703	ELIZ_T1	0	0	0	0	0	0	-1.77	-1.76	1	1	0	900	900	0
8/6/2024 20:21	61701	ELIZ_T1	1	1	0	4.1	4.4	0.3	0	0	0	0	0	0	0	0
8/6/2024 20:22	61703	ELIZ_T1	0	0	0	0	0	0	-1.77	-1.76	1	1	0	900	900	0
8/6/2024 20:22	64704	UTI_T1	0	0	0	0	0	0	1.03	1.07	0	0	0	0	0	0
8/6/2024 20:22	61701	ELIZ_T1	1	1	0	4.1	4.4	0.3	0	0	0	0	0	0	0	0
8/6/2024 20:23	60502	NMAN_T2	0	0	0	0	0	0	0.36	0.24	0	0	0	0	0	0
8/6/2024 20:24	46504	LOHA_T1	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
8/6/2024 20:24	46506	LOHA_T1	273	240	-33	0.32	0.33	0.01	-1.88	-1.9	2	2	0	2100	2100	0
8/6/2024 20:25	67602	WARW_T2	0	0	0	0	0	0	0.47	0.46	1	1	0	300	300	0
8/6/2024 20:26	67602	WARW_T2	0	0	0	0	0	0	0.47	0.46	1	1	0	300	300	0
8/6/2024 20:26	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/6/2024 20:28	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 20:28	61701	ELIZ_T1	1	1	0	4.1	4.4	0.3	0	0	0	0	0	0	0	0
8/6/2024 20:29	63501	HEID_TBK1-2	49	48	-1	1.7	1.51	-0.19	0.17	0.22	1	1	0	900	900	0
8/6/2024 20:31	61701	ELIZ_T1	1	1	0	4.4	4.6	0.2	0	0	0	0	0	0	0	0
8/6/2024 20:31	61703	ELIZ_T1	0	0	0	0	0	0	-1.77	-1.76	1	1	0	900	900	0
8/6/2024 20:32	67605	WARW_T1	3	3	0	0.6	0.7	0.1	-0.85	-0.93	0	0	0	0	0	0
8/6/2024 20:33	67602	WARW_T2	0	0	0	0	0	0	0.95	0.93	2	2	0	600	600	0
8/6/2024 20:33	67605	WARW_T1	3	3	0	0.6	0.7	0.1	-0.85	-0.93	0	0	0	0	0	0
8/6/2024 20:33	64302	LINC_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
8/6/2024 20:34	52204	DEVO_T2	4	4	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/6/2024 20:34	52202	DEVO_T2	0	0	0	0	0	0	-1.36	-1.37	0	0	0	0	0	0
8/6/2024 20:34	67602	WARW_T2	0	0	0	0	0	0	0.95	0.93	2	2	0	600	600	0
8/6/2024 20:35	64302	LINC_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
8/6/2024 20:35	63501	HEID_TBK1-2	48	48	0	1.64	1.28	-0.36	0.17	0.22	1	1	0	900	900	0
8/6/2024 20:35	67602	WARW_T2	0	0	0	0	0	0	0.47	0.46	1	1	0	300	300	0
8/6/2024 20:35	67605	WARW_T1	3	3	0	0.6	0.7	0.1	-0.85	-0.93	0	0	0	0	0	0
8/6/2024 20:36	67605	WARW_T1	3	3	0	0.6	0.7	0.1	-0.93	-0.99	0	0	0	0	0	0
8/6/2024 20:38	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 20:38	61402	SLIT_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/6/2024 20:39	67602	WARW_T2	0	0	0	0	0	0	0.46	0.44	1	1	0	300	300	0
8/6/2024 20:39	67605	WARW_T1	3	3	0	0.6	0.7	0.1	-0.93	-0.99	0	0	0	0	0	0
8/6/2024 20:39	65001	NEFF_T2	0	0	0	0	0	0	-0.14	-0.23	1	1	0	1200	1200	0
8/6/2024 20:39	67603	WARW_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
8/6/2024 20:39	65003	NEFF_T2	3	4	1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
8/6/2024 20:40	55405	SHER_T1	6	6	0	0.5	0.68	0.18	-0.17	-0.17	0	0	0	0	0	0
8/6/2024 20:40	64303	LINC_T1	0	0	0	0	0	0	-0.13	0.08	0	0	0	0	0	0
8/6/2024 20:40	41304	FISH_T2	1	1	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
8/6/2024 20:40	41302	FISH_T2	12	12	0	0.71	0	-0.71	0	0	0	0	0	0	0	0
8/6/2024 20:41	64301	LINC_T1	0	0	0	0	0	0	-0.67	-0.76	0	0	0	0	0	0
8/6/2024 20:41	64101	REFR_T1	0	0	0	0	0	0	0.37	0.4	0	0	0	0	0	0
8/6/2024 20:42	64101	REFR_T1	0	0	0	0	0	0	0.37	0.4	0	0	0	0	0	0
8/6/2024 20:43	64101	REFR_T1	0	0	0	0	0	0	1.48	1.61	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/6/2024 20:44	64101	REFR_T1	0	0	0	0	0	0	0.37	0.4	0	0	0	0	0	0
8/6/2024 20:45	65904	SAKR_T2	0	0	0	0	0	0	-1.84	-1.87	3	3	0	1500	1500	0
8/6/2024 20:45	65205	PRIN_T1	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
8/6/2024 20:45	64101	REFR_T1	0	1	1	0	0	0	0.74	0.8	0	0	0	0	0	0
8/6/2024 20:45	65901	SAKR_T2	1	1	0	8.9	9.1	0.2	0	0	0	0	0	0	0	0
8/6/2024 20:48	64101	REFR_T1	0	1	1	0	0	0	0.37	0.4	0	0	0	0	0	0
8/6/2024 20:48	65802	RTWN_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
8/6/2024 20:48	60502	NMAN_T2	0	6	6	0	0	0	0.24	0.27	0	0	0	0	0	0
8/6/2024 20:48	67605	WARW_T1	3	4	1	0.67	1.07	0.4	-0.93	-0.99	0	0	0	0	0	0
8/6/2024 20:49	63602	LETO_T1	0	0	0	0	0	0	-0.36	-0.38	1	1	0	600	600	0
8/6/2024 20:49	67801	WLAN_T1	0	0	0	0	0	0	0.28	0.23	0	0	0	0	0	0
8/6/2024 20:49	64305	LINC_T1	0	0	0	0	0	0	-0.14	-0.07	0	0	0	0	0	0
8/6/2024 20:49	67804	WLAN_T1	3	4	1	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
8/6/2024 20:52	67505	WEWI_T1	0	0	0	0	0	0	0.53	0.55	1	1	0	900	900	0
8/6/2024 20:52	61102	BERK_T5	0	0	0	0	0	0	0.32	0.23	1	1	0	300	300	0
8/6/2024 20:54	66902	SHIL_T2	1	26	25	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
8/6/2024 20:54	63602	LETO_T1	0	0	0	0	0	0	-0.38	-0.42	1	1	0	600	600	0
8/6/2024 20:54	42802	SELI_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
8/6/2024 20:54	66901	SHIL_T2	127	250	123	0.19	0.39	0.2	-0.98	-1.03	1	1	0	1200	1200	0
8/6/2024 20:54	66903	SHIL_T2	0	32	32	0	0.19	0.19	0	0	0	0	0	0	0	0
8/6/2024 20:55	64305	LINC_T1	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
8/6/2024 20:55	61102	BERK_T5	0	0	0	0	0	0	0.32	0.23	1	1	0	300	300	0
8/6/2024 20:56	66901	SHIL_T2	127	250	123	0.19	0.39	0.2	-0.98	-1.03	1	1	0	1200	1200	0
8/6/2024 20:56	66902	SHIL_T2	1	26	25	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
8/6/2024 20:56	67103	SPRI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 20:56	66903	SHIL_T2	0	32	32	0	0.19	0.19	0	0	0	0	0	0	0	0
8/6/2024 20:57	42802	SELI_T1	0	0	0	0	0	0	-1.63	-1.68	0	0	0	0	0	0
8/6/2024 20:58	63304	GREE_T1	0	0	0	0	0	0	-2.33	-2.39	0	0	0	0	0	0
8/6/2024 20:58	63305	GREE_T1	2	8	6	0.2	0.33	0.13	0	0	0	0	0	0	0	0
8/6/2024 20:59	62101	ELAN_T1	1	1	0	2.9	0.1	-2.8	0	0	0	0	0	0	0	0
8/6/2024 20:59	62102	ELAN_T1	0	0	0	0	0	0	1.46	1.42	0	0	0	0	0	0
8/6/2024 21:00	67503	WEWI_T2	1	1	0	5.2	5.7	0.5	0.44	0.44	0	0	0	0	0	0
8/6/2024 21:01	61304	EARL_T1	6	31	25	0.1	0.21	0.11	0	0	0	0	0	0	0	0
8/6/2024 21:01	63305	GREE_T1	7	14	7	0.21	0.35	0.14	0	0	0	0	0	0	0	0
8/6/2024 21:01	63306	GREE_T1	0	0	0	0	0	0	-1.83	-1.91	1	1	0	900	900	0
8/6/2024 21:01	63301	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/6/2024 21:01	61301	EARL_T1	0	0	0	0	0	0	-0.34	-0.34	1	1	0	900	900	0
8/6/2024 21:06	40602	PIGR_T1	1	0	-1	0.2	0	-0.2	0.19	0.15	0	0	0	0	0	0
8/6/2024 21:06	64802	MONE_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
8/6/2024 21:06	40601	PIGR_T1	25	67	42	0.25	0.31	0.06	0	0	0	0	0	0	0	0
8/6/2024 21:10	64201	KINZ_T1	1	42	41	0.8	0.28	-0.52	-0.46	-0.5	3	3	0	1500	1500	0
8/6/2024 21:10	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 21:10	64203	KINZ_T1	0	41	41	0	0.22	0.22	0	0	0	0	0	0	0	0
8/6/2024 21:10	64204	KINZ_T1	1	5	4	0.9	0.28	-0.62	0	0	0	0	0	0	0	0
8/6/2024 21:11	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 21:11	64201	KINZ_T1	1	42	41	0.8	0.28	-0.52	-0.46	-0.5	3	3	0	1500	1500	0
8/6/2024 21:11	64204	KINZ_T1	1	5	4	0.9	0.28	-0.62	0	0	0	0	0	0	0	0
8/6/2024 21:11	64203	KINZ_T1	0	41	41	0	0.22	0.22	0	0	0	0	0	0	0	0
8/6/2024 21:13	42601	TUSC_T1	0	0	0	0	0	0	-1.12	-1.2	2	2	0	1800	1800	0
8/6/2024 21:13	65604	QVIL_T2	1	2	1	2	0.55	-1.45	0	0	0	0	0	0	0	0
8/6/2024 21:13	65601	QVIL_T2	0	10	10	0	0.12	0.12	-0.41	-0.44	1	1	0	900	900	0
8/6/2024 21:13	63403	HONY_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
8/6/2024 21:15	26704	HEML_T2	0	0	0	0	0	0	-0.65	-0.65	1	1	0	1200	1200	0
8/6/2024 21:16	20401	ASHF_T2	5	4	-1	0.7	0.7	0	0	0	0	0	0	0	0	0
8/6/2024 21:16	20402	ASHF_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 21:16	15604	NSTR_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
8/6/2024 21:16	20403	ASHF_T2	0	0	0	0	0	0	0.71	0.73	0	0	0	0	0	0
8/6/2024 21:17	60301	TWVA_T2	0	0	0	0	0	0	-2.67	-2.68	2	2	0	1800	1800	0
8/6/2024 21:18	64204	KINZ_T1	1	5	4	0.9	0.28	-0.62	0	0	0	0	0	0	0	0
8/6/2024 21:18	20601	GRWO_T2	150	122	-28	0.73	0.65	-0.08	1.33	1.31	0	0	0	0	0	0
8/6/2024 21:18	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 21:18	64203	KINZ_T1	6	41	35	0.1	0.22	0.12	0	0	0	0	0	0	0	0
8/6/2024 21:18	64201	KINZ_T1	16	42	26	0.23	0.28	0.05	-0.46	-0.5	3	3	0	1500	1500	0
8/6/2024 21:19	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 21:19	40801	EXCH_T2	3	3	0	0.13	0.27	0.14	0	0	0	0	0	0	0	0
8/6/2024 21:19	64204	KINZ_T1	1	5	4	0.9	0.28	-0.62	0	0	0	0	0	0	0	0
8/6/2024 21:19	64201	KINZ_T1	16	42	26	0.23	0.28	0.05	0	0	0	0	0	0	0	0
8/6/2024 21:19	64203	KINZ_T1	6	41	35	0.1	0.22	0.12	0.12	0.11	1	1	0	600	600	0
8/6/2024 21:19	40802	EXCH_T2	0	3	3	0	0.1	0.1	-0.75	-0.78	0	0	0	0	0	0
8/6/2024 21:20	64201	KINZ_T1	16	42	26	0.23	0.28	0.05	0	0	0	0	0	0	0	0
8/6/2024 21:20	64203	KINZ_T1	6	41	35	0.1	0.22	0.12	0.12	0.11	1	1	0	600	600	0
8/6/2024 21:20	15604	NSTR_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
8/6/2024 21:20	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 21:20	64204	KINZ_T1	1	5	4	0.9	0.28	-0.62	0	0	0	0	0	0	0	0
8/6/2024 21:22	20403	ASHF_T2	0	0	0	0	0	0	1.46	1.39	0	0	0	0	0	0
8/6/2024 21:22	20402	ASHF_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 21:22	20601	GRWO_T2	150	122	-28	0.73	0.65	-0.08	1.31	1.3	0	0	0	0	0	0
8/6/2024 21:22	20401	ASHF_T2	5	4	-1	0.7	0.7	0	0	0	0	0	0	0	0	0
8/6/2024 21:24	47101	MARL_T1	27	26	-1	1.27	0.81	-0.46	-0.39	-0.4	0	0	0	0	0	0
8/6/2024 21:24	64203	KINZ_T1	6	41	35	0.1	0.22	0.12	0.11	0.05	1	1	0	600	600	0
8/6/2024 21:24	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 21:24	64204	KINZ_T1	1	5	4	0.9	0.28	-0.62	0	0	0	0	0	0	0	0
8/6/2024 21:24	64201	KINZ_T1	16	42	26	0.23	0.28	0.05	0	0	0	0	0	0	0	0
8/6/2024 21:26	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/6/2024 21:28	66703	STRA_T1	0	3	3	0	0.3	0.3	0.13	0.2	0	0	0	0	0	0
8/6/2024 21:29	41304	FISH_T2	1	1	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
8/6/2024 21:29	41302	FISH_T2	15	15	0	2.67	2.06	-0.61	0	0	0	0	0	0	0	0
8/6/2024 21:30	61704	ELIZ_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 21:30	40201	BEGA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/6/2024 21:30	47101	MARL_T1	26	20	-6	0.82	0.79	-0.03	-0.39	-0.4	0	0	0	0	0	0
8/6/2024 21:30	42601	TUSC_T1	0	5	5	0	0.43	0.43	-1.2	-0.02	2	2	0	1800	1800	0
8/6/2024 21:30	61702	ELIZ_T2	0	0	0	0	0	0	-1.49	-1.53	2	2	0	1500	1500	0
8/6/2024 21:31	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 21:31	60201	ATGL_T2	0	3	3	0	0.13	0.13	0.78	0.63	0	0	0	0	0	0
8/6/2024 21:31	65603	QVIL_T2	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
8/6/2024 21:31	42201	SHEN_T2	0	0	0	0	0	0	0.1	0.1	1	1	0	600	600	0
8/6/2024 21:31	65604	QVIL_T2	2	3	1	0.55	0.37	-0.18	0.8	0.74	0	0	0	0	0	0
8/6/2024 21:31	65601	QVIL_T2	10	46	36	0.12	0.15	0.03	0	0	0	0	0	0	0	0
8/6/2024 21:31	46101	MACI_T2	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
8/6/2024 21:32	20403	ASHF_T2	0	0	0	0	0	0	0.73	0.69	0	0	0	0	0	0
8/6/2024 21:32	20402	ASHF_T2	6	6	0	0.18	0.12	-0.06	0	0	0	0	0	0	0	0
8/6/2024 21:32	20401	ASHF_T2	3	5	2	0.9	0.73	-0.17	0	0	0	0	0	0	0	0
8/6/2024 21:32	20601	GRWO_T2	113	114	1	0.65	0.59	-0.06	1.31	1.3	0	0	0	0	0	0
8/6/2024 21:33	42201	SHEN_T2	0	0	0	0	0	0	0.1	0.1	1	1	0	600	600	0
8/6/2024 21:34	40502	CRES_T2	12	11	-1	0.24	0.32	0.08	-1.5	-1.56	0	0	0	0	0	0
8/6/2024 21:34	47101	MARL_T1	26	20	-6	0.82	0.79	-0.03	-0.39	-0.4	0	0	0	0	0	0
8/6/2024 21:34	42503	ALTA_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
8/6/2024 21:34	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 21:35	65604	QVIL_T2	2	3	1	0.55	0.37	-0.18	0.8	0.74	0	0	0	0	0	0
8/6/2024 21:35	65603	QVIL_T2	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
8/6/2024 21:35	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 21:35	65601	QVIL_T2	10	46	36	0.12	0.15	0.03	0	0	0	0	0	0	0	0
8/6/2024 21:36	13503	MCMI_T2	0	31	31	0	0.23	0.23	-0.63	-0.67	0	0	0	0	0	0
8/6/2024 21:37	23001	SAJO_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
8/6/2024 21:37	47101	MARL_T1	26	20	-6	0.82	0.79	-0.03	-0.4	-0.36	0	0	0	0	0	0
8/6/2024 21:37	13503	MCMI_T2	0	31	31	0	0.23	0.23	-0.63	-0.67	0	0	0	0	0	0
8/6/2024 21:37	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/6/2024 21:37	29402	BELT_T1	1	1	0	5.6	6.4	0.8	0	0	0	0	0	0	0	0
8/6/2024 21:38	29402	BELT_T1	1	1	0	5.6	6.4	0.8	0	0	0	0	0	0	0	0
8/6/2024 21:38	48602	POCA_T1	0	0	0	0	0	0	-0.51	1.94	2	2	0	2400	2400	0
8/6/2024 21:40	20402	ASHF_T2	6	6	0	0.18	0.12	-0.06	0	0	0	0	0	0	0	0
8/6/2024 21:40	42601	TUSC_T1	0	5	5	0	0.43	0.43	-0.02	0.09	2	2	0	1800	1800	0
8/6/2024 21:40	20401	ASHF_T2	3	5	2	0.9	0.73	-0.17	0	0	0	0	0	0	0	0
8/6/2024 21:40	29402	BELT_T1	1	1	0	5.6	6.4	0.8	0	0	0	0	0	0	0	0
8/6/2024 21:40	20403	ASHF_T2	0	0	0	0	0	0	0.69	0.66	0	0	0	0	0	0
8/6/2024 21:41	47101	MARL_T1	26	20	-6	0.82	0.79	-0.03	-0.4	-0.36	0	0	0	0	0	0
8/6/2024 21:42	46101	MACI_T2	0	0	0	0	0	0	0.76	0.77	0	0	0	0	0	0
8/6/2024 21:43	16402	MOPO_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
8/6/2024 21:43	22901	HARW_T1	1	0	-1	0.1	0	-0.1	-0.37	-0.24	1	1	0	1200	1200	0
8/6/2024 21:43	22903	HARW_T1	22	24	2	1.05	0.97	-0.08	0	0	0	0	0	0	0	0
8/6/2024 21:43	22905	HARW_T1	22	31	9	0.88	0.84	-0.04	0	0	0	0	0	0	0	0
8/6/2024 21:44	44801	EDAN_T2	7	18	11	0.11	0.23	0.12	-1.42	-1.46	0	0	0	0	0	0
8/6/2024 21:45	45501	DERR_T2	0	0	0	0	0	0	-0.02	-0.03	2	2	0	1800	1800	0
8/6/2024 21:47	22901	HARW_T1	0	1	1	0	0	0	-0.37	-0.24	1	1	0	1200	1200	0
8/6/2024 21:47	22903	HARW_T1	22	24	2	0.97	1.6	0.63	0	0	0	0	0	0	0	0
8/6/2024 21:47	15603	NSTR_T2	0	1	1	0	0	0	-0.06	-0.06	0	0	0	0	0	0
8/6/2024 21:47	22905	HARW_T1	23	26	3	1.14	0.82	-0.32	0	0	0	0	0	0	0	0
8/6/2024 21:49	45501	DERR_T2	0	0	0	0	0	0	-0.02	-0.03	2	2	0	1800	1800	0
8/6/2024 21:49	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/6/2024 21:49	29402	BELT_T1	1	1	0	6.1	6.6	0.5	0	0	0	0	0	0	0	0
8/6/2024 21:51	52004	LING_T2	2	2	0	5.35	5.4	0.05	0.08	0.01	0	0	0	0	0	0
8/6/2024 21:52	16402	MOPO_T1	0	0	0	0	0	0	0.33	0.54	0	0	0	0	0	0
8/6/2024 21:53	47101	MARL_T1	16	20	4	0.84	0.88	0.04	-0.36	-0.39	0	0	0	0	0	0
8/6/2024 21:55	21701	SUBU_T1	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
8/6/2024 21:55	21705	SUBU_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
8/6/2024 21:55	21703	SUBU_T1	0	0	0	0	0	0	0.96	0.93	0	0	0	0	0	0
8/6/2024 21:56	28704	HAML_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 21:56	28702	HAML_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
8/6/2024 21:57	25503	MADI_T1	2	6	4	0.2	0.13	-0.07	-0.67	-0.69	0	0	0	0	0	0
8/6/2024 21:57	23001	SAJO_T1	0	1	1	0	0	0	0.11	0.16	0	0	0	0	0	0
8/6/2024 21:58	21206	ECAR_T2	4	1	-3	2.1	8.2	6.1	0.5	0.54	0	0	0	0	0	0
8/6/2024 21:58	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 21:58	16504	STRO_T1	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
8/6/2024 21:58	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 21:59	44901	SCOT_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/6/2024 21:59	44902	SCOT_T2	194	151	-43	0.35	0.28	-0.07	-0.6	-0.64	0	0	0	0	0	0
8/6/2024 21:59	47001	HUGH_T2	3	3	0	7.8	8.1	0.3	-0.52	-0.58	0	0	0	0	0	0
8/6/2024 21:59	47002	HUGH_T2	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
8/6/2024 22:00	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 22:00	25603	ARRO_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
8/6/2024 22:01	16201	POFA_T2	10	1	-9	0.1	0.1	0	0	0	0	0	0	0	0	0
8/6/2024 22:01	26402	INOR_T1	0	0	0	0	0	0	-0.86	-0.94	0	0	0	0	0	0
8/6/2024 22:01	26401	INOR_T1	1	1	0	8.8	8.8	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/6/2024 22:01	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 22:01	46203	DANV_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
8/6/2024 22:02	45302	WBER_T2	0	0	0	0	0	0	1.25	1.21	0	0	0	0	0	0
8/6/2024 22:02	44801	EDAN_T2	13	31	18	0.18	0.26	0.08	-1.46	-1.44	0	0	0	0	0	0
8/6/2024 22:02	43202	MVIL_T2	57	63	6	0.53	0.65	0.12	-0.59	-0.6	0	0	0	0	0	0
8/6/2024 22:03	43103	SMIL_T2	3	0	-3	0.27	0	-0.27	1.28	-1.3	0	0	0	0	0	0
8/6/2024 22:03	43105	SMIL_T2	13	0	-13	0.18	0	-0.18	0	0	0	0	0	0	0	0
8/6/2024 22:03	45501	DERR_T2	0	0	0	0	0	0	-0.07	-0.37	4	4	0	3600	3600	0
8/6/2024 22:03	43102	SMIL_T2	6	5	-1	0.55	0.16	-0.39	0	0	0	0	0	0	0	0
8/6/2024 22:03	44301	BEAV_T2	0	1	1	0	0	0	-0.67	-1.31	2	2	0	1200	1200	0
8/6/2024 22:04	52002	LING_T2	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
8/6/2024 22:04	55101	WERT_T1	0	0	0	0	0	0	-3.54	-3.72	6	6	0	4800	4800	0
8/6/2024 22:04	52004	LING_T2	2	2	0	5.4	5.25	-0.15	0	0	0	0	0	0	0	0
8/6/2024 22:04	13503	MCMI_T2	31	14	-17	0.23	0.14	-0.09	-0.67	-0.65	0	0	0	0	0	0
8/6/2024 22:05	54203	PENN_T1	57	18	-39	0.53	0.54	0.01	0	0	0	0	0	0	0	0
8/6/2024 22:05	41001	LAUR_T2	74	82	8	0.58	0.7	0.12	0	0	0	0	0	0	0	0
8/6/2024 22:05	44801	EDAN_T2	13	31	18	0.18	0.26	0.08	-1.46	-1.44	0	0	0	0	0	0
8/6/2024 22:05	54201	PENN_T1	79	4	-75	0.38	1.3	0.92	-0.52	-0.57	0	0	0	0	0	0
8/6/2024 22:05	55101	WERT_T1	0	0	0	0	0	0	-1.77	-1.86	3	3	0	2400	2400	0
8/6/2024 22:05	44301	BEAV_T2	0	1	1	0	0	0	-0.34	-0.66	1	1	0	600	600	0
8/6/2024 22:05	42802	SELI_T1	0	0	0	0	0	0	-0.82	-0.98	0	0	0	0	0	0
8/6/2024 22:05	44902	SCOT_T2	82	153	71	0.11	0.29	0.18	-0.6	-0.64	0	0	0	0	0	0
8/6/2024 22:05	41002	LAUR_T2	49	52	3	0.55	0.71	0.16	-0.09	-0.09	0	0	0	0	0	0
8/6/2024 22:05	54205	PENN_T1	192	0	-192	0.23	0	-0.23	0	0	0	0	0	0	0	0
8/6/2024 22:05	42903	MIDD_T2	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
8/6/2024 22:06	44703	MUNC_T2	3	3	0	0.6	0.67	0.07	0	0	0	0	0	0	0	0
8/6/2024 22:06	23401	HONE_T2	0	0	0	0	0	0	-0.18	-0.22	0	0	0	0	0	0
8/6/2024 22:06	44701	MUNC_T2	12	13	1	0.23	0.28	0.05	0	0	0	0	0	0	0	0
8/6/2024 22:06	44702	MUNC_T2	3	4	1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
8/6/2024 22:06	43301	WATS_T2	0	0	0	0	0	0	-0.4	0.55	1	0	-1	900	0	-900
8/6/2024 22:07	52004	LING_T2	2	2	0	5.4	5.25	-0.15	0.01	0.01	0	0	0	0	0	0
8/6/2024 22:07	45501	DERR_T2	0	0	0	0	0	0	-0.18	-0.16	2	2	0	1800	1800	0
8/6/2024 22:07	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 22:07	43402	BENT_T1	0	0	0	0	0	0	0.1	0.05	0	0	0	0	0	0
8/6/2024 22:08	57104	SPHI_T2	0	0	0	0	0	0	-1.45	-1.48	1	1	0	900	900	0
8/6/2024 22:08	54201	PENN_T1	79	4	-75	0.38	1.3	0.92	-0.57	-0.54	0	0	0	0	0	0
8/6/2024 22:08	43105	SMIL_T2	13	0	-13	0.18	0	-0.18	0	0	0	0	0	0	0	0
8/6/2024 22:08	57106	SPHI_T2	3	3	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
8/6/2024 22:08	54203	PENN_T1	57	18	-39	0.53	0.54	0.01	0	0	0	0	0	0	0	0
8/6/2024 22:08	47002	HUGH_T2	3	0	-3	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
8/6/2024 22:08	43108	SMIL_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
8/6/2024 22:08	43102	SMIL_T2	6	5	-1	0.55	0.16	-0.39	0	0	0	0	0	0	0	0
8/6/2024 22:08	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 22:08	46203	DANV_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
8/6/2024 22:08	64902	MILL_T2	0	0	0	0	0	0	-0.46	-0.14	1	1	0	900	900	0
8/6/2024 22:08	42201	SHEN_T2	0	0	0	0	0	0	0.08	0.06	1	1	0	600	600	0
8/6/2024 22:08	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/6/2024 22:08	57101	SPHI_T2	6	6	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
8/6/2024 22:08	44701	MUNC_T2	12	13	1	0.23	0.28	0.05	0	0	0	0	0	0	0	0
8/6/2024 22:08	54205	PENN_T1	192	0	-192	0.23	0	-0.23	0	0	0	0	0	0	0	0
8/6/2024 22:08	47001	HUGH_T2	3	3	0	8.03	8.2	0.17	-0.58	-0.63	0	0	0	0	0	0
8/6/2024 22:08	57702	PAXT_T1	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
8/6/2024 22:08	44702	MUNC_T2	3	4	1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
8/6/2024 22:08	44703	MUNC_T2	3	3	0	0.6	0.67	0.07	0	0	0	0	0	0	0	0
8/6/2024 22:08	43103	SMIL_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
8/6/2024 22:09	44801	EDAN_T2	13	31	18	0.18	0.26	0.08	-1.44	-1.47	0	0	0	0	0	0
8/6/2024 22:09	47403	PENS_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 22:09	47401	PENS_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
8/6/2024 22:09	50701	SMEC_T1	10	0	-10	0.16	0	-0.16	-1.15	-1.2	1	1	0	900	900	0
8/6/2024 22:09	45501	DERR_T2	0	0	0	0	0	0	-0.37	-0.33	4	4	0	3600	3600	0
8/6/2024 22:09	52002	LING_T2	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
8/6/2024 22:09	56501	ROCK_T2	84	3	-81	0.21	0.6	0.39	-0.71	-0.7	0	0	0	0	0	0
8/6/2024 22:09	52004	LING_T2	2	2	0	5.4	5.25	-0.15	0	0	0	0	0	0	0	0
8/6/2024 22:09	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 22:09	45502	DERR_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
8/6/2024 22:09	49803	UNIV_T1	1	1	0	5.2	5.5	0.3	-2.02	-0.77	0	0	0	0	0	0
8/6/2024 22:09	49804	UNIV_T1	1	0	-1	0.1	0	-0.1	0.91	0.91	0	0	0	0	0	0
8/6/2024 22:09	57601	RUTH_T2	0	0	0	0	0	0	-0.1	-0.17	0	0	0	0	0	0
8/6/2024 22:09	44203	POIN_T2	0	0	0	0	0	0	-0.56	-0.44	2	2	0	2100	2100	0
8/6/2024 22:10	53902	HALI_T2	1	1	0	5.5	5.4	-0.1	-0.66	-0.7	0	0	0	0	0	0
8/6/2024 22:10	53901	HALI_T2	5	1	-4	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/6/2024 22:10	45501	DERR_T2	0	0	0	0	0	0	-0.37	-0.33	4	4	0	3600	3600	0
8/6/2024 22:10	43202	MVIL_T2	57	63	6	0.53	0.65	0.12	-1.21	-1.18	0	0	0	0	0	0
8/6/2024 22:10	43102	SMIL_T2	6	5	-1	0.55	0.16	-0.39	0	0	0	0	0	0	0	0
8/6/2024 22:10	56501	ROCK_T2	84	3	-81	0.21	0.6	0.39	-1.42	-1.4	0	0	0	0	0	0
8/6/2024 22:10	46801	HEPB_T2	38	2	-36	0.39	0.3	-0.09	0.84	0.82	0	0	0	0	0	0
8/6/2024 22:10	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/6/2024 22:10	46206	DANV_T2	0	0	0	0	0	0	1.52	1.47	2	2	0	2100	2100	0
8/6/2024 22:10	45502	DERR_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
8/6/2024 22:10	43103	SMIL_T2	3	0	-3	0.27	0	-0.27	-1.3	-1.31	0	0	0	0	0	0
8/6/2024 22:10	43105	SMIL_T2	13	0	-13	0.18	0	-0.18	0	0	0	0	0	0	0	0
8/6/2024 22:10	53903	HALI_T2	2	2	0	1.65	0.95	-0.7	0	0	0	0	0	0	0	0
8/6/2024 22:10	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 22:10	46803	HEPB_T2	9	0	-9	0.21	0	-0.21	0	0	0	0	0	0	0	0
8/6/2024 22:10	59101	WALK_T2	0	0	0	0	0	0	1.13	1.05	1	1	0	600	600	0
8/6/2024 22:10	45302	WBER_T2	0	0	0	0	0	0	1.21	1.21	0	0	0	0	0	0
8/6/2024 22:10	55101	WERT_T1	0	0	0	0	0	0	-5.58	-5.79	9	9	0	7200	7200	0
8/6/2024 22:11	43105	SMIL_T2	13	0	-13	0.18	0	-0.18	0	0	0	0	0	0	0	0
8/6/2024 22:11	46801	HEPB_T2	38	2	-36	0.39	0.3	-0.09	0	0	0	0	0	0	0	0
8/6/2024 22:11	43102	SMIL_T2	6	5	-1	0.55	0.16	-0.39	0	0	0	0	0	0	0	0
8/6/2024 22:11	56501	ROCK_T2	84	3	-81	0.21	0.6	0.39	-1.42	-1.4	0	0	0	0	0	0
8/6/2024 22:11	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 22:11	42902	MIDD_T2	0	0	0	0	0	0	-0.84	-0.86	1	1	0	600	600	0
8/6/2024 22:11	52403	GRPA_T2	4	5	1	0.6	0.1	-0.5	-0.38	-0.39	0	0	0	0	0	0
8/6/2024 22:11	52402	GRPA_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/6/2024 22:11	43103	SMIL_T2	3	0	-3	0.27	0	-0.27	-0.65	-0.65	0	0	0	0	0	0
8/6/2024 22:11	46803	HEPB_T2	9	0	-9	0.21	0	-0.21	0.64	0.68	0	0	0	0	0	0
8/6/2024 22:11	51304	WIND_T2	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
8/6/2024 22:12	40802	EXCH_T2	2	0	-2	0.1	0	-0.1	-0.79	-0.79	0	0	0	0	0	0
8/6/2024 22:12	51202	MTON_T2	0	0	0	0	0	0	-0.86	-0.87	1	1	0	1200	1200	0
8/6/2024 22:12	45402	WBLO_T2	46	55	9	0.36	0.37	0.01	-1.35	-1.34	1	1	0	900	900	0
8/6/2024 22:12	40801	EXCH_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
8/6/2024 22:12	52002	LING_T2	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
8/6/2024 22:12	41702	LOGA_T2	77	0	-77	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/6/2024 22:12	52004	LING_T2	2	2	0	5.4	5.25	-0.15	0	0	0	0	0	0	0	0
8/6/2024 22:13	59101	WALK_T2	0	0	0	0	0	0	1.13	1.05	1	1	0	600	600	0
8/6/2024 22:13	57601	RUTH_T2	0	0	0	0	0	0	-0.1	-0.17	0	0	0	0	0	0
8/6/2024 22:13	45801	HEGI_T1	0	0	0	0	0	0	0.28	0.24	1	1	0	900	900	0
8/6/2024 22:13	46602	LACR_T1	4	6	2	0.23	0.22	-0.01	-0.94	-0.97	0	0	0	0	0	0
8/6/2024 22:13	56501	ROCK_T2	84	3	-81	0.21	0.6	0.39	-2.12	-2.11	0	0	0	0	0	0
8/6/2024 22:13	53501	EVIL_T2	1	0	-1	0.2	0	-0.2	-0.01	-0.01	1	1	0	600	600	0
8/6/2024 22:14	52403	GRPA_T2	4	5	1	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
8/6/2024 22:14	43108	SMIL_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
8/6/2024 22:14	43103	SMIL_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
8/6/2024 22:14	57702	PAXT_T1	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
8/6/2024 22:14	55101	WERT_T1	0	0	0	0	0	0	-1.86	-1.93	3	3	0	2400	2400	0
8/6/2024 22:14	43105	SMIL_T2	13	0	-13	0.18	0	-0.18	0	0	0	0	0	0	0	0
8/6/2024 22:14	47401	PENS_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
8/6/2024 22:14	47403	PENS_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/6/2024 22:14	42802	SELI_T1	0	0	0	0	0	0	-0.98	-0.96	0	0	0	0	0	0
8/6/2024 22:14	52401	GRPA_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
8/6/2024 22:14	44203	POIN_T2	0	0	0	0	0	0	-0.56	-0.44	2	2	0	2100	2100	0
8/6/2024 22:14	55001	NEWP_T1	0	0	0	0	0	0	-0.64	-0.65	1	1	0	600	600	0
8/6/2024 22:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 22:14	42903	MIDD_T2	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
8/6/2024 22:14	45802	HEGI_T2	9	36	27	0.43	0.61	0.18	0.93	0.65	0	1	1	0	300	300
8/6/2024 22:14	54701	NEBL_T1	2	1	-1	0.7	0.9	0.2	0	0	1	1	0	600	600	0
8/6/2024 22:14	42701	AUGU_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
8/6/2024 22:14	42902	MIDD_T2	0	0	0	0	0	0	-1.67	-1.73	2	2	0	1200	1200	0
8/6/2024 22:14	55002	NEWP_T1	6	2	-4	0.88	0.45	-0.43	0	0	0	0	0	0	0	0
8/6/2024 22:14	53501	EVIL_T2	1	0	-1	0.2	0	-0.2	-0.01	-0.01	2	2	0	1200	1200	0
8/6/2024 22:14	52402	GRPA_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/6/2024 22:14	59202	THOM_T1	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/6/2024 22:14	45501	DERR_T2	0	0	0	0	0	0	-0.37	-0.33	4	4	0	3600	3600	0
8/6/2024 22:14	59101	WALK_T2	0	0	0	0	0	0	1.13	1.05	1	1	0	600	600	0
8/6/2024 22:14	43102	SMIL_T2	6	5	-1	0.55	0.16	-0.39	0	0	0	0	0	0	0	0
8/6/2024 22:15	41902	REED_T1	0	0	0	0	0	0	0.4	0.34	1	1	0	900	900	0
8/6/2024 22:15	42902	MIDD_T2	0	0	0	0	0	0	-1.67	-1.73	2	2	0	1200	1200	0
8/6/2024 22:15	41901	REED_T1	3	9	6	0.27	0.41	0.14	0	0	0	0	0	0	0	0
8/6/2024 22:15	55101	WERT_T1	0	0	0	0	0	0	-1.86	-1.93	3	3	0	2400	2400	0
8/6/2024 22:15	47401	PENS_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
8/6/2024 22:15	59101	WALK_T2	0	0	0	0	0	0	1.13	1.05	1	1	0	600	600	0
8/6/2024 22:15	45602	WOOL_T1	0	1	1	0	0.1	0.1	0.92	0.91	0	0	0	0	0	0
8/6/2024 22:15	57601	RUTH_T2	0	0	0	0	0	0	-0.2	-0.34	0	0	0	0	0	0
8/6/2024 22:15	40101	HUNT_T2	0	1	1	0	0.1	0.1	-0.9	-0.23	0	0	0	0	0	0
8/6/2024 22:15	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
8/6/2024 22:15	52501	PROG_T1	0	0	0	0	0	0	0.25	0.25	1	1	0	300	300	0
8/6/2024 22:16	46506	LOHA_T1	795	834	39	0.89	0.94	0.05	-1.96	-1.92	2	2	0	2100	2100	0
8/6/2024 22:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 22:16	46504	LOHA_T1	1	2	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/6/2024 22:16	45801	HEGI_T1	0	0	0	0	0	0	0.28	0.24	1	1	0	900	900	0
8/6/2024 22:16	42902	MIDD_T2	0	0	0	0	0	0	-0.84	-0.86	1	1	0	600	600	0
8/6/2024 22:16	40101	HUNT_T2	0	1	1	0	0.1	0.1	-0.9	-0.23	0	0	0	0	0	0
8/6/2024 22:16	43102	SMIL_T2	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
8/6/2024 22:16	55001	NEWP_T1	0	0	0	0	0	0	-0.64	-0.65	1	1	0	600	600	0
8/6/2024 22:16	57602	RUTH_T2	0	0	0	0	0	0	-0.65	-0.73	0	0	0	0	0	0
8/6/2024 22:16	43108	SMIL_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
8/6/2024 22:16	46503	LOHA_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/6/2024 22:16	51401	LYKE_T1	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
8/6/2024 22:16	52002	LING_T2	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
8/6/2024 22:16	53601	DALM_T2	1	1	0	0.1	0.1	0	-0.17	-0.27	2	2	0	1200	1200	0
8/6/2024 22:16	55002	NEWP_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
8/6/2024 22:16	42802	SELI_T1	0	0	0	0	0	0	-0.98	-0.96	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/6/2024 22:16	52004	LING_T2	2	2	0	4.9	5.4	0.5	0	0	0	0	0	0	0	0
8/6/2024 22:16	53501	EVIL_T2	0	0	0	0	0	0	-0.02	-0.02	3	3	0	1800	1800	0
8/6/2024 22:17	55001	NEWP_T1	0	0	0	0	0	0	-0.64	-0.65	1	1	0	600	600	0
8/6/2024 22:17	55101	WERT_T1	0	0	0	0	0	0	-1.86	-1.93	3	3	0	2400	2400	0
8/6/2024 22:17	40101	HUNT_T2	0	1	1	0	0.1	0.1	-0.9	-0.23	0	0	0	0	0	0
8/6/2024 22:17	52002	LING_T2	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
8/6/2024 22:17	41901	REED_T1	3	9	6	0.27	0.41	0.14	0	0	0	0	0	0	0	0
8/6/2024 22:17	52004	LING_T2	2	2	0	4.9	5.4	0.5	0	0	0	0	0	0	0	0
8/6/2024 22:17	43102	SMIL_T2	0	5	5	0	0.16	0.16	-0.6	-0.62	1	1	0	600	600	0
8/6/2024 22:17	55002	NEWP_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
8/6/2024 22:17	46203	DANV_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
8/6/2024 22:17	41902	REED_T1	0	0	0	0	0	0	0.4	0.34	1	1	0	900	900	0
8/6/2024 22:18	53502	EVIL_T2	0	0	0	0	0	0	-0.04	0.12	1	1	0	900	900	0
8/6/2024 22:18	51602	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/6/2024 22:18	46203	DANV_T2	0	0	0	0	0	0	-0.82	-0.85	0	0	0	0	0	0
8/6/2024 22:18	53802	MBRG_T2	0	0	0	0	0	0	0.65	0.8	0	0	0	0	0	0
8/6/2024 22:18	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/6/2024 22:18	41001	LAUR_T2	75	82	7	0.66	0.69	0.03	0	0	0	0	0	0	0	0
8/6/2024 22:18	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 22:18	41002	LAUR_T2	49	50	1	0.6	0.73	0.13	-0.09	-0.11	0	0	0	0	0	0
8/6/2024 22:18	57601	RUTH_T2	0	0	0	0	0	0	-0.1	-0.17	0	0	0	0	0	0
8/6/2024 22:18	40101	HUNT_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/6/2024 22:18	46602	LAUR_T1	4	6	2	0.2	0.2	0	-0.94	-0.97	0	0	0	0	0	0
8/6/2024 22:18	42802	SELI_T1	0	0	0	0	0	0	-0.98	-0.96	0	0	0	0	0	0
8/6/2024 22:19	41902	REED_T1	0	0	0	0	0	0	0.4	0.34	1	1	0	900	900	0
8/6/2024 22:19	58706	ROSE_T2	1	1	0	0.5	0.7	0.2	-0.4	0.81	1	1	0	600	600	0
8/6/2024 22:19	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
8/6/2024 22:19	46504	LOHA_T1	1	2	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/6/2024 22:19	58705	ROSE_T2	4	5	1	0.43	0.92	0.49	0	0	0	0	0	0	0	0
8/6/2024 22:19	46506	LOHA_T1	795	834	39	0.89	0.94	0.05	-1.96	-1.92	2	2	0	2100	2100	0
8/6/2024 22:19	45802	HEGI_T2	0	44	44	0	1.05	1.05	0.93	0.65	0	1	1	0	300	300
8/6/2024 22:19	46503	LOHA_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/6/2024 22:19	41901	REED_T1	3	9	6	0.27	0.41	0.14	0	0	0	0	0	0	0	0
8/6/2024 22:19	45801	HEGI_T1	0	0	0	0	0	0	0.28	0.24	1	1	0	900	900	0
8/6/2024 22:19	40101	HUNT_T2	0	1	1	0	0.1	0.1	-0.9	-0.23	0	0	0	0	0	0
8/6/2024 22:20	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 22:20	57304	MOAL_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
8/6/2024 22:20	55002	NEWP_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
8/6/2024 22:20	57602	RUTH_T2	0	0	0	0	0	0	-0.65	-0.73	0	0	0	0	0	0
8/6/2024 22:20	57303	MOAL_T2	1	1	0	7.7	7.3	-0.4	0	0	0	0	0	0	0	0
8/6/2024 22:20	42902	MIDD_T2	0	0	0	0	0	0	-0.84	-0.86	1	1	0	600	600	0
8/6/2024 22:20	52002	LING_T2	0	0	0	0	0	0	0.84	0.89	0	0	0	0	0	0
8/6/2024 22:20	58302	NOTT_T1	0	0	0	0	0	0	1.12	1.13	0	0	0	0	0	0
8/6/2024 22:20	52004	LING_T2	2	2	0	4.9	5.4	0.5	0	0	0	0	0	0	0	0
8/6/2024 22:20	46203	DANV_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
8/6/2024 22:20	53502	EVIL_T2	0	0	0	0	0	0	-0.04	0.12	1	1	0	900	900	0
8/6/2024 22:20	55001	NEWP_T1	0	0	0	0	0	0	-0.64	-0.65	1	1	0	600	600	0
8/6/2024 22:21	57602	RUTH_T2	0	0	0	0	0	0	-0.32	-0.37	0	0	0	0	0	0
8/6/2024 22:21	40101	HUNT_T2	0	1	1	0	0.1	0.1	-0.9	-0.23	0	0	0	0	0	0
8/6/2024 22:21	53601	DALM_T2	1	1	0	0.1	0.1	0	-0.08	-0.13	1	1	0	600	600	0
8/6/2024 22:22	40902	JESH_T1	0	0	0	0	0	0	-0.45	-0.54	0	0	0	0	0	0
8/6/2024 22:22	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/6/2024 22:23	52403	GRPA_T2	3	3	0	0.83	0.3	-0.53	0	0	0	0	0	0	0	0
8/6/2024 22:23	58203	NEWV_T2	1	1	0	4.4	5	0.6	-0.22	-0.24	0	0	0	0	0	0
8/6/2024 22:23	52402	GRPA_T2	0	1	1	0	0.3	0.3	-0.5	-0.55	0	0	0	0	0	0
8/6/2024 22:24	52402	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/6/2024 22:24	58402	MORO_T1	0	0	0	0	0	0	0.81	0.77	1	1	0	900	900	0
8/6/2024 22:24	52403	GRPA_T2	3	3	0	0.83	0.3	-0.53	-0.39	-0.39	0	0	0	0	0	0
8/6/2024 22:24	58401	MORO_T1	0	0	0	0	0	0	-1.15	-1.25	2	2	0	1200	1200	0
8/6/2024 22:26	52403	GRPA_T2	3	3	0	0.83	0.3	-0.53	0	0	0	0	0	0	0	0
8/6/2024 22:26	52402	GRPA_T2	0	1	1	0	0.3	0.3	-0.5	-0.55	0	0	0	0	0	0
8/6/2024 22:27	52403	GRPA_T2	3	3	0	0.83	0.3	-0.53	0	0	0	0	0	0	0	0
8/6/2024 22:27	52404	GRPA_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
8/6/2024 22:27	52402	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/6/2024 22:34	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
8/6/2024 22:34	47401	PENS_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
8/6/2024 22:52	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.23	-0.24	0	0	0	0	0	0
8/6/2024 22:59	61102	BERK_T5	0	0	0	0	0	0	1.19	1.13	1	1	0	300	300	0
8/6/2024 23:42	45801	HEGI_T1	0	0	0	0	0	0	0.11	0.07	1	1	0	900	900	0
8/7/2024 3:06	45602	WOOL_T1	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
8/7/2024 3:57	65901	SAKR_T2	1	1	0	7.4	7.8	0.4	-0.9	-0.89	1	1	0	900	900	0
8/7/2024 7:48	44201	POIN_T1	0	0	0	0	0	0	-0.39	-0.19	2	2	0	2100	2100	0
8/7/2024 8:05	44201	POIN_T1	0	0	0	0	0	0	-0.19	-0.29	2	2	0	2100	2100	0
8/7/2024 8:09	55102	WERT_T2	0	0	0	0	0	0	-0.65	-1.85	2	2	0	1200	1200	0
8/7/2024 8:11	46004	BERW_T2	0	0	0	0	0	0	0.54	0.57	0	0	0	0	0	0
8/7/2024 8:15	24702	FLND_T2	0	0	0	0	0	0	0.51	0.55	1	1	0	1200	1200	0
8/7/2024 8:17	43202	MVIL_T2	22	55	33	0.2	0.34	0.14	-0.49	-0.46	0	0	0	0	0	0
8/7/2024 8:22	43202	MVIL_T2	22	55	33	0.2	0.34	0.14	-0.46	-0.44	0	0	0	0	0	0
8/7/2024 8:24	56501	ROCK_T2	2	3	1	1	0.85	-0.15	0	0	0	0	0	0	0	0
8/7/2024 8:24	56504	ROCK_T2	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
8/7/2024 8:28	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 8:29	50201	HARR_T3	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/7/2024 8:29	50105	HARR_T3	6	6	0	5.78	5.55	-0.23	0	0	0	0	0	0	0	0
8/7/2024 8:29	50107	HARR_T3	1	1	0	6.2	6.4	0.2	0.79	0.78	0	0	0	0	0	0
8/7/2024 8:29	50103	HARR_T3	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
8/7/2024 8:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 8:41	53601	DALM_T2	1	1	0	0.7	0.3	-0.4	-0.21	-0.02	1	1	0	600	600	0
8/7/2024 8:44	23202	HIRU_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
8/7/2024 8:45	67103	SPRI_T1	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
8/7/2024 8:53	51704	OBER_T1	0	0	0	0	0	0	-1.39	-0.11	1	0	-1	1200	0	-1200
8/7/2024 8:53	51702	OBER_T1	2	3	1	3.2	3.15	-0.05	0	0	0	0	0	0	0	0
8/7/2024 8:53	44201	POIN_T1	0	0	0	0	0	0	0.08	-1.15	2	2	0	2100	2100	0
8/7/2024 8:57	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 9:00	40802	EXCH_T2	0	1	1	0	0.1	0.1	-0.38	-0.7	0	0	0	0	0	0
8/7/2024 9:00	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/7/2024 9:13	62601	ENGL_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
8/7/2024 9:14	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 9:15	45801	HEGI_T1	0	0	0	0	0	0	-0.3	0.26	1	1	0	900	900	0
8/7/2024 9:15	63501	HEID_T8K1-2	48	48	0	1.38	1.13	-0.25	0.56	0.55	1	1	0	900	900	0
8/7/2024 9:16	46102	MACJ_T1	0	0	0	0	0	0	0.93	0.91	0	0	0	0	0	0
8/7/2024 9:27	44301	BEAV_T2	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
8/7/2024 9:27	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/7/2024 9:27	29402	BELT_T1	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
8/7/2024 9:36	15601	NSTR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/7/2024 9:36	67605	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/7/2024 9:36	15603	NSTR_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
8/7/2024 9:36	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 9:37	52501	PROG_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
8/7/2024 9:39	51204	MTON_T2	0	0	0	0	0	0	-0.27	-0.29	1	1	0	600	600	0
8/7/2024 9:41	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/7/2024 9:41	67804	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 9:41	45501	DERR_T2	0	0	0	0	0	0	1.6	1.64	4	4	0	3600	3600	0
8/7/2024 9:41	67803	WLAN_T1	0	0	0	0	0	0	-1.3	-1.32	0	0	0	0	0	0
8/7/2024 9:41	64902	MILL_T2	0	0	0	0	0	0	-0.28	-0.26	1	1	0	900	900	0
8/7/2024 9:42	64904	MILL_T1	0	0	0	0	0	0	-0.11	-0.07	0	0	0	0	0	0
8/7/2024 9:44	45502	DERR_T2	0	1	1	0	0.1	0.1	0.33	0.3	0	0	0	0	0	0
8/7/2024 9:46	13503	MCMI_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
8/7/2024 9:47	64902	MILL_T2	0	0	0	0	0	0	-0.28	-0.26	1	1	0	900	900	0
8/7/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-0.26	-0.25	1	1	0	900	900	0
8/7/2024 10:00	40505	CRES_T1	3	3	0	3.27	3.7	0.43	0.68	0.66	0	0	0	0	0	0
8/7/2024 10:00	42601	TUSC_T1	8	0	-8	0.15	0	-0.15	-0.52	-0.52	3	3	0	2400	2400	0
8/7/2024 10:00	45702	LIND_T2	1	1	0	0.4	0.1	-0.3	-1.45	-1.5	0	0	0	0	0	0
8/7/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-2.28	-0.56	6	6	0	6300	6300	0
8/7/2024 10:00	15603	NSTR_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
8/7/2024 10:00	51204	MTON_T2	0	0	0	0	0	0	-0.29	-0.28	1	1	0	600	600	0
8/7/2024 10:00	43202	MVIL_T2	1	0	-1	0.5	0	-0.5	-0.95	-0.97	0	0	0	0	0	0
8/7/2024 10:00	15601	NSTR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/7/2024 10:01	45702	LIND_T2	1	1	0	0.4	0.1	-0.3	-1.45	-1.5	0	0	0	0	0	0
8/7/2024 10:04	66302	MCGO_T2	0	0	0	0	0	0	-1.51	-1.49	1	1	0	600	600	0
8/7/2024 10:05	43802	SWIL_T1	0	0	0	0	0	0	0.11	0.13	1	1	0	600	600	0
8/7/2024 10:05	43801	SWIL_T1	15	11	-4	0.53	0.57	0.04	0	0	0	0	0	0	0	0
8/7/2024 10:07	67503	WEWI_T2	1	1	0	6.5	6.6	0.1	0.26	0.28	0	0	0	0	0	0
8/7/2024 10:09	43802	SWIL_T1	0	0	0	0	0	0	0.13	0.12	1	1	0	600	600	0
8/7/2024 10:09	43801	SWIL_T1	15	11	-4	0.53	0.57	0.04	0	0	0	0	0	0	0	0
8/7/2024 10:10	53601	DALM_T2	0	1	1	0	0.1	0.1	-0.19	-0.21	1	1	0	600	600	0
8/7/2024 10:12	44801	EDAN_T2	0	1	1	0	0	0	-1.34	-1.32	0	0	0	0	0	0
8/7/2024 10:12	28102	TWLA_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
8/7/2024 10:14	44801	EDAN_T2	0	1	1	0	0	0	-1.34	-1.32	0	0	0	0	0	0
8/7/2024 10:15	63304	GREE_T1	0	0	0	0	0	0	-2.83	-2.8	0	0	0	0	0	0
8/7/2024 10:16	21206	ECAR_T2	1	3	2	7.2	8	0.8	0.67	0.64	0	0	0	0	0	0
8/7/2024 10:16	44801	EDAN_T2	0	1	1	0	0.2	0.2	-1.34	-1.32	0	0	0	0	0	0
8/7/2024 10:16	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 10:17	25503	MADI_T1	12	17	5	0.15	0.14	-0.01	-0.75	-0.67	0	0	0	0	0	0
8/7/2024 10:18	65001	NEFF_T2	0	0	0	0	0	0	0	0.04	1	1	0	1200	1200	0
8/7/2024 10:20	51202	MTON_T2	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
8/7/2024 10:23	67803	WLAN_T1	0	0	0	0	0	0	-1.31	-1.27	0	0	0	0	0	0
8/7/2024 10:23	67801	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 10:27	46206	DANV_T2	20	9	-11	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
8/7/2024 10:27	46203	DANV_T2	0	0	0	0	0	0	-0.3	-0.35	0	0	0	0	0	0
8/7/2024 10:28	45502	DERR_T2	1	4	3	1	0.6	-0.4	0	0	0	0	0	0	0	0
8/7/2024 10:28	45501	DERR_T2	0	0	0	0	0	0	0.84	0.9	2	2	0	1800	1800	0
8/7/2024 10:28	64305	LINC_T1	1	1	0	0.5	0	-0.5	0.39	0.45	0	0	0	0	0	0
8/7/2024 10:29	45502	DERR_T2	1	4	3	1	0.6	-0.4	0	0	0	0	0	0	0	0
8/7/2024 10:29	45501	DERR_T2	0	0	0	0	0	0	0.84	0.9	2	2	0	1800	1800	0
8/7/2024 10:34	48302	ORWI_T2	1	1	0	0.3	0.4	0.1	-0.34	-0.32	0	0	0	0	0	0
8/7/2024 10:35	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 10:39	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 10:42	46206	DANV_T2	7	8	1	0.5	0.4	-0.1	1.84	1.84	2	2	0	2100	2100	0
8/7/2024 10:43	46206	DANV_T2	7	8	1	0.5	0.4	-0.1	1.84	1.84	2	2	0	2100	2100	0
8/7/2024 10:44	48902	FOSP_T2	0	0	0	0	0	0	-0.98	-1.2	2	2	0	2400	2400	0
8/7/2024 10:45	23202	HIRU_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
8/7/2024 10:46	20601	GRWO_T2	8	2	-6	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/7/2024 10:46	40602	PIGR_T1	1	1	0	0.7	0.2	-0.5	-0.62	-0.58	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/7/2024 10:46	20603	GRWO_T2	0	1	1	0	0	0	-0.36	-0.35	1	1	0	900	900	0
8/7/2024 10:46	64704	LITI_T1	0	0	0	0	0	0	0.19	0.21	1	1	0	600	600	0
8/7/2024 10:46	67103	SPRI_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
8/7/2024 10:48	66302	MCGO_T2	0	0	0	0	0	0	-1.49	-1.48	1	1	0	600	600	0
8/7/2024 10:49	64704	LITI_T1	0	0	0	0	0	0	0.19	0.21	1	1	0	600	600	0
8/7/2024 10:50	48902	HOSP_T2	0	0	0	0	0	0	-0.98	-1.2	2	2	0	2400	2400	0
8/7/2024 10:55	55102	WERT_T2	0	1	1	0	0	0	-0.84	-0.88	2	2	0	1200	1200	0
8/7/2024 10:56	45502	DERR_T2	2	1	-1	0.4	0	-0.4	0.27	0.14	0	0	0	0	0	0
8/7/2024 10:56	45501	DERR_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/7/2024 10:56	44301	BEAV_T2	1	1	0	2	0.3	-1.7	0	0	0	0	0	0	0	0
8/7/2024 10:57	55102	WERT_T2	0	1	1	0	0	0	-0.84	-0.88	2	2	0	1200	1200	0
8/7/2024 11:04	23001	SAJO_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
8/7/2024 11:09	63401	HONY_T1	0	0	0	0	0	0	0.07	0.04	1	1	0	600	600	0
8/7/2024 11:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/7/2024 11:11	29402	BELT_T1	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
8/7/2024 11:12	63401	HONY_T1	0	0	0	0	0	0	0.07	0.04	1	1	0	600	600	0
8/7/2024 11:12	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/7/2024 11:12	29402	BELT_T1	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
8/7/2024 11:14	23901	EFMO_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
8/7/2024 11:21	15702	TANN_T2	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
8/7/2024 11:21	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
8/7/2024 11:23	42201	SHEN_T2	0	0	0	0	0	0	0.13	0.09	1	1	0	600	600	0
8/7/2024 11:25	15703	TANN_T2	1	0	0	5.8	5.8	0	0	0	0	0	0	0	0	0
8/7/2024 11:25	15702	TANN_T2	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
8/7/2024 11:27	20403	ASHF_T2	0	1	1	0	0	0	1.85	1.89	0	0	0	0	0	0
8/7/2024 11:27	20401	ASHF_T2	4	4	0	0.68	0.67	-0.01	0	0	0	0	0	0	0	0
8/7/2024 11:28	24101	EHAZ_T1	1	22	21	2.1	0.22	-1.88	0	0	0	0	0	0	0	0
8/7/2024 11:28	62102	ELAN_T1	0	0	0	0	0	0	1.05	1.18	0	0	0	0	0	0
8/7/2024 11:28	24104	EHAZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/7/2024 11:28	24102	EHAZ_T1	0	1	1	0	0.5	0.5	0.74	0.73	0	0	0	0	0	0
8/7/2024 11:28	24105	EHAZ_T1	4	4	0	6.03	6	-0.03	0	0	0	0	0	0	0	0
8/7/2024 11:29	20401	ASHF_T2	4	4	0	0.68	0.67	-0.01	0	0	0	0	0	0	0	0
8/7/2024 11:29	20403	ASHF_T2	0	1	1	0	0	0	1.85	1.89	0	0	0	0	0	0
8/7/2024 11:32	52403	GRPA_T2	0	2	2	0	0.1	0.1	-0.3	-0.29	0	0	0	0	0	0
8/7/2024 11:32	52402	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/7/2024 11:34	22701	MINO_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/7/2024 11:43	63305	GREE_T1	0	2	2	0	0.2	0.2	-1.73	-1.63	1	1	0	900	900	0
8/7/2024 11:44	63305	GREE_T1	0	2	2	0	0.2	0.2	-1.73	-1.63	1	1	0	900	900	0
8/7/2024 11:49	22701	MINO_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
8/7/2024 11:52	67804	WLAN_T1	0	0	0	0	0	0	-0.76	-0.7	0	0	0	0	0	0
8/7/2024 11:55	67804	WLAN_T1	0	0	0	0	0	0	-0.76	-0.7	0	0	0	0	0	0
8/7/2024 11:56	29402	BELT_T1	0	56	56	0	0.3	0.3	0	0	0	0	0	0	0	0
8/7/2024 11:56	29401	BELT_T1	0	32	32	0	0.23	0.23	0	0	0	0	0	0	0	0
8/7/2024 12:00	61303	EARL_T1	0	0	0	0	0	0	0.87	1.09	0	0	0	0	0	0
8/7/2024 12:00	23203	HIRU_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
8/7/2024 12:10	29401	BELT_T1	26	44	18	0.18	0.25	0.07	0	0	1	1	0	900	900	0
8/7/2024 12:10	29402	BELT_T1	24	87	63	0.2	0.33	0.13	0	0	0	0	0	0	0	0
8/7/2024 12:11	45501	DERR_T2	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
8/7/2024 12:11	45502	DERR_T2	2	2	0	1.3	1.1	-0.2	0.29	0.32	0	0	0	0	0	0
8/7/2024 12:18	50505	MECH_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
8/7/2024 12:18	50502	MECH_T1	2	2	0	3.05	1.8	-1.25	0	0	0	0	0	0	0	0
8/7/2024 12:18	50501	MECH_T1	4	4	0	0.58	1	0.42	0	0	0	0	0	0	0	0
8/7/2024 12:21	56501	ROCK_T2	1	1	0	0.5	0	-0.5	-0.9	-0.88	0	0	0	0	0	0
8/7/2024 12:22	56501	ROCK_T2	1	1	0	0.5	0	-0.5	-0.88	-0.88	0	0	0	0	0	0
8/7/2024 12:23	56501	ROCK_T2	1	1	0	0.5	0	-0.5	-0.88	-0.88	0	0	0	0	0	0
8/7/2024 12:23	66901	SHIL_T2	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
8/7/2024 12:25	63403	HONY_T2	0	0	0	0	0	0	-0.45	-0.5	1	1	0	600	600	0
8/7/2024 12:26	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 12:28	40802	EXCH_T2	0	0	0	0	0	0	-0.69	-0.51	0	0	0	0	0	0
8/7/2024 12:30	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 12:32	40802	EXCH_T2	0	0	0	0	0	0	-0.69	-0.51	0	0	0	0	0	0
8/7/2024 12:37	55002	NEWP_T1	4	5	1	0.93	0.88	-0.05	0	0	0	0	0	0	0	0
8/7/2024 12:37	55001	NEWP_T1	0	0	0	0	0	0	-0.55	-0.54	1	1	0	600	600	0
8/7/2024 12:39	67502	WEWI_T2	1	3	2	0.1	0.1	0	-0.57	-0.46	1	1	0	900	900	0
8/7/2024 12:39	67503	WEWI_T2	1	1	0	6.7	6.4	-0.3	0	0	0	0	0	0	0	0
8/7/2024 12:40	67502	WEWI_T2	1	3	2	0.1	0.1	0	-0.57	-0.46	1	1	0	900	900	0
8/7/2024 12:40	67503	WEWI_T2	1	1	0	6.7	6.4	-0.3	0	0	0	0	0	0	0	0
8/7/2024 12:41	67502	WEWI_T2	1	3	2	0.1	0.1	0	-1.14	-0.93	2	2	0	1800	1800	0
8/7/2024 12:41	67503	WEWI_T2	1	1	0	6.7	6.4	-0.3	0	0	0	0	0	0	0	0
8/7/2024 12:43	57501	LAWN_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 12:44	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.75	1	1	0	900	900	0
8/7/2024 12:44	64903	MILL_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 12:45	57501	LAWN_T3	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
8/7/2024 12:48	57501	LAWN_T3	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
8/7/2024 12:48	46901	MNTG_T2	0	0	0	0	0	0	0.91	0.93	1	1	0	1200	1200	0
8/7/2024 13:20	65602	QVIL_T2	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
8/7/2024 13:20	65604	QVIL_T2	1	2	1	4.4	2.05	-2.35	0.38	0.38	0	0	0	0	0	0
8/7/2024 13:21	58202	NEWV_T1	0	0	0	0	0	0	1.43	1.35	0	0	0	0	0	0
8/7/2024 13:22	65602	QVIL_T2	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
8/7/2024 13:22	65604	QVIL_T2	1	2	1	4.4	2.05	-2.35	0.38	0.38	0	0	0	0	0	0
8/7/2024 13:29	59101	WALK_T2	0	0	0	0	0	0	1.2	1.9	1	1	0	600	600	0
8/7/2024 13:33	13501	MCMI_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
8/7/2024 13:35	21705	SUBU_T1	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
8/7/2024 13:35	21701	SUBU_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
8/7/2024 13:35	46102	MACI_T1	0	0	0	0	0	0	0.96	0.96	0	0	0	0	0	0
8/7/2024 13:35	21703	SUBU_T1	0	0	0	0	0	0	1.12	1.07	0	0	0	0	0	0
8/7/2024 13:59	47901	HRDG_T1	0	0	0	0	0	0	0.84	0.75	1	1	0	1200	1200	0
8/7/2024 14:02	65302	NBRI_T2	0	0	0	0	0	0	-0.57	-0.73	1	1	0	600	600	0
8/7/2024 14:03	27302	PARR_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
8/7/2024 14:03	66504	SMAN_T2	0	0	0	0	0	0	-0.79	-0.7	1	1	0	1200	1200	0
8/7/2024 14:03	51702	OBER_T1	2	2	0	2.1	2.45	0.35	-0.62	-0.62	1	1	0	600	600	0
8/7/2024 14:04	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/7/2024 14:04	47401	PENS_T1	0	0	0	0	0	0	0.39	0.24	0	0	0	0	0	0
8/7/2024 14:04	65302	NBRI_T2	0	0	0	0	0	0	-0.57	-0.73	1	1	0	600	600	0
8/7/2024 14:04	24204	PROV_T3	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
8/7/2024 14:04	65205	PRIN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/7/2024 14:04	58401	MORO_T1	0	0	0	0	0	0	-4.27	-4.23	6	6	0	4200	4200	0
8/7/2024 14:04	47403	PENS_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/7/2024 14:04	51702	OBER_T1	2	2	0	2.1	2.45	0.35	-0.62	-0.62	1	1	0	600	600	0
8/7/2024 14:04	58402	MORO_T1	0	8	8	0	0.24	0.24	0	0	0	0	0	0	0	0
8/7/2024 14:04	65207	PRIN_T4	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/7/2024 14:04	27604	PIRI_T1	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
8/7/2024 14:04	65802	RTWN_T2	0	0	0	0	0	0	0.8	0.76	0	0	0	0	0	0
8/7/2024 14:04	24201	PROV_T3	2	1	-1	4	7.8	3.8	-2.98	-3.01	3	3	0	3600	3600	0
8/7/2024 14:04	65004	NEFF_T2	0	0	0	0	0	0	-0.63	-0.63	1	1	0	600	600	0
8/7/2024 14:04	66504	SMAN_T2	0	0	0	0	0	0	-1.58	-1.41	2	2	0	2400	2400	0
8/7/2024 14:05	27302	PARR_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
8/7/2024 14:05	50201	HARR_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/7/2024 14:05	65205	PRIN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/7/2024 14:05	50103	HARR_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/7/2024 14:05	50202	HARR_T3	0	0	0	0	0	0	0.23	0.15	0	0	0	0	0	0
8/7/2024 14:05	65001	NEFF_T2	0	0	0	0	0	0	0.05	0.04	1	1	0	1200	1200	0
8/7/2024 14:05	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 14:05	65302	NBRI_T2	0	0	0	0	0	0	-0.57	-0.73	1	1	0	600	600	0
8/7/2024 14:05	51702	OBER_T1	2	2	0	2.1	2.45	0.35	-0.62	-0.62	1	1	0	600	600	0
8/7/2024 14:05	47403	PENS_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/7/2024 14:05	47401	PENS_T1	0	0	0	0	0	0	0.39	0.24	0	0	0	0	0	0
8/7/2024 14:05	66505	SMAN_T2	0	0	0	0	0	0	0.46	0.47	3	3	0	2100	2100	0
8/7/2024 14:05	50105	HARR_T3	6	6	0	6.15	5.83	-0.32	0	0	0	0	0	0	0	0
8/7/2024 14:05	50107	HARR_T3	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
8/7/2024 14:06	44502	HAMI_T2	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
8/7/2024 14:06	65302	NBRI_T2	0	0	0	0	0	0	-0.73	-0.78	1	1	0	600	600	0
8/7/2024 14:06	50103	HARR_T3	0	2	2	0	0.2	0.2	-0.23	-0.2	2	2	0	2400	2400	0
8/7/2024 14:06	65004	NEFF_T2	0	0	0	0	0	0	0.63	0.58	1	1	0	600	600	0
8/7/2024 14:06	44503	HAMI_T2	0	0	0	0	0	0	-0.96	-0.93	0	0	0	0	0	0
8/7/2024 14:06	65001	NEFF_T2	0	0	0	0	0	0	0.08	0.31	2	2	0	2400	2400	0
8/7/2024 14:06	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/7/2024 14:06	50105	HARR_T3	6	6	0	6.15	5.83	-0.32	0	0	0	0	0	0	0	0
8/7/2024 14:06	50201	HARR_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/7/2024 14:06	50107	HARR_T3	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
8/7/2024 14:07	27302	PARR_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
8/7/2024 14:07	65302	NBRI_T2	0	0	0	0	0	0	-0.73	-0.78	1	1	0	600	600	0
8/7/2024 14:07	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 14:07	24202	PROV_T4	0	0	0	0	0	0	-0.13	-0.13	1	1	0	1200	1200	0
8/7/2024 14:07	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 14:07	40502	CRES_T2	1	8	7	0.1	0.19	0.09	-1.38	-1.42	0	0	0	0	0	0
8/7/2024 14:08	50201	HARR_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/7/2024 14:08	57505	LAWN_T3	0	0	0	0	0	0	0.99	1.01	0	0	0	0	0	0
8/7/2024 14:08	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 14:08	66702	STRA_T1	0	0	0	0	0	0	-1.1	-1.15	3	3	0	2700	2700	0
8/7/2024 14:08	50105	HARR_T3	6	6	0	6.15	5.83	-0.32	0	0	0	0	0	0	0	0
8/7/2024 14:08	50103	HARR_T3	0	2	2	0	0.2	0.2	-0.1	-0.1	1	1	0	1200	1200	0
8/7/2024 14:08	50107	HARR_T3	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
8/7/2024 14:09	50202	HARR_T3	0	0	0	0	0	0	0.15	0.24	0	0	0	0	0	0
8/7/2024 14:09	50105	HARR_T3	6	6	0	6.15	5.83	-0.32	0	0	0	0	0	0	0	0
8/7/2024 14:09	50107	HARR_T3	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
8/7/2024 14:09	50103	HARR_T3	0	2	2	0	0.2	0.2	-0.2	-0.2	2	2	0	2400	2400	0
8/7/2024 14:09	50201	HARR_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/7/2024 14:10	50103	HARR_T3	0	2	2	0	0.2	0.2	-0.1	-0.1	1	1	0	1200	1200	0
8/7/2024 14:10	50201	HARR_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/7/2024 14:10	63804	HEMP_T1	1	1	0	7.1	7	-0.1	-0.03	-0.02	0	0	0	0	0	0
8/7/2024 14:10	50107	HARR_T3	1	1	0	7	6.8	-0.2	0.84	0.81	0	0	0	0	0	0
8/7/2024 14:10	50105	HARR_T3	6	6	0	6.15	5.83	-0.32	0	0	0	0	0	0	0	0
8/7/2024 14:11	44301	BEAV_T2	1	0	-1	1.3	0	-1.3	0.17	-0.55	2	2	0	1500	1500	0
8/7/2024 14:11	63803	HEMP_T1	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
8/7/2024 14:11	63802	HEMP_T1	0	0	0	0	0	0	1.49	1.66	0	0	0	0	0	0
8/7/2024 14:11	29402	BELT_T1	31	30	-1	0.56	0.56	0	0	0	0	0	0	0	0	0
8/7/2024 14:11	63804	HEMP_T1	1	1	0	7.1	7	-0.1	0	0	0	0	0	0	0	0
8/7/2024 14:11	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 14:11	61002	DONV_T2	0	0	0	0	0	0	-0.36	-0.35	2	2	0	1200	1200	0
8/7/2024 14:12	60902	DONG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/7/2024 14:12	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 14:12	63801	HEMP_T1	0	0	0	0	0	0	-0.5	-0.42	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/7/2024 14:12	51901	COPA_T1	0	0	0	0	0	0	-0.98	-0.96	1	1	0	1200	1200	0
8/7/2024 14:12	63804	HEMP_T1	1	1	0	7.1	7	-0.1	-0.03	-0.02	0	0	0	0	0	0
8/7/2024 14:12	51904	COPA_T1	5	5	0	0.6	1.02	0.42	-1.4	-1.39	2	2	0	1200	1200	0
8/7/2024 14:12	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 14:12	51905	COPA_T1	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
8/7/2024 14:12	29402	BELT_T1	31	30	-1	0.56	0.56	0	0	0	0	0	0	0	0	0
8/7/2024 14:12	61001	DONV_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
8/7/2024 14:12	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 14:13	61301	EARL_T1	0	0	0	0	0	0	-0.9	-0.8	2	2	0	1800	1800	0
8/7/2024 14:13	51901	COPA_T1	0	0	0	0	0	0	-0.98	-0.96	1	1	0	1200	1200	0
8/7/2024 14:13	40602	PIGR_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/7/2024 14:13	51904	COPA_T1	5	5	0	0.6	1.02	0.42	-1.4	-1.39	2	2	0	1200	1200	0
8/7/2024 14:13	22101	EDEL_T2	0	0	0	0	0	0	0.88	0.86	1	1	0	1200	1200	0
8/7/2024 14:14	51902	COPA_T1	0	0	0	0	0	0	-1.27	-1.25	1	1	0	1200	1200	0
8/7/2024 14:14	51906	COPA_T1	0	0	0	0	0	0	-0.57	-0.42	2	2	0	1500	1500	0
8/7/2024 14:14	51004	NHAR_T1	2	1	-1	4.6	6.3	1.7	-0.63	-0.62	0	0	0	0	0	0
8/7/2024 14:14	61302	EARL_T1	0	0	0	0	0	0	-0.03	-0.11	4	4	0	3600	3600	0
8/7/2024 14:14	51905	COPA_T1	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
8/7/2024 14:14	51002	NHAR_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
8/7/2024 14:14	51904	COPA_T1	5	5	0	0.6	1.02	0.42	0	0	0	0	0	0	0	0
8/7/2024 14:15	51004	NHAR_T1	1	1	0	6.3	6.4	0.1	-0.63	-0.62	0	0	0	0	0	0
8/7/2024 14:15	61301	EARL_T1	0	0	0	0	0	0	-0.9	-0.8	2	2	0	1800	1800	0
8/7/2024 14:15	51002	NHAR_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
8/7/2024 14:15	61002	DONV_T2	0	0	0	0	0	0	-0.36	-0.35	2	2	0	1200	1200	0
8/7/2024 14:15	51904	COPA_T1	6	5	-1	1.48	0.92	-0.56	-1.4	-1.39	2	2	0	1200	1200	0
8/7/2024 14:15	63801	HEMP_T1	0	0	0	0	0	0	-0.5	-0.42	1	1	0	900	900	0
8/7/2024 14:15	47202	FAXO_T2	0	0	0	0	0	0	-1.89	-1.91	0	0	0	0	0	0
8/7/2024 14:15	29402	BELT_T1	30	1	-29	0.56	9.5	8.94	0	0	0	0	0	0	0	0
8/7/2024 14:15	23502	GEOR_T1	0	0	0	0	0	0	-0.5	-0.55	1	1	0	1200	1200	0
8/7/2024 14:15	51902	COPA_T1	0	0	0	0	0	0	-1.27	-1.25	1	1	0	1200	1200	0
8/7/2024 14:15	63804	HEMP_T1	1	1	0	7	7.4	0.4	0	0	0	0	0	0	0	0
8/7/2024 14:15	51905	COPA_T1	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
8/7/2024 14:15	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 14:16	45702	LIND_T2	2	1	-1	1.05	1.8	0.75	0	0	0	0	0	0	0	0
8/7/2024 14:16	51904	COPA_T1	6	5	-1	1.48	0.92	-0.56	-2.8	-2.78	4	4	0	2400	2400	0
8/7/2024 14:16	65001	NEFF_T2	0	0	0	0	0	0	0.04	0.16	1	1	0	1200	1200	0
8/7/2024 14:16	51902	COPA_T1	0	0	0	0	0	0	-1.27	-1.25	1	1	0	1200	1200	0
8/7/2024 14:16	45701	LIND_T2	0	0	0	0	0	0	-1.39	-1.39	0	0	0	0	0	0
8/7/2024 14:16	51906	COPA_T1	0	0	0	0	0	0	-1.15	-0.83	4	4	0	3000	3000	0
8/7/2024 14:16	60404	DILL_T2	0	0	0	0	0	0	-0.27	-0.19	2	2	0	2400	2400	0
8/7/2024 14:17	51002	NHAR_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
8/7/2024 14:17	51904	COPA_T1	6	5	-1	1.48	0.92	-0.56	-1.4	-1.39	2	2	0	1200	1200	0
8/7/2024 14:17	61301	EARL_T1	0	0	0	0	0	0	-0.9	-0.8	2	2	0	1800	1800	0
8/7/2024 14:17	48902	FOSP_T2	0	0	0	0	0	0	0.61	0.55	0	0	0	0	0	0
8/7/2024 14:17	51906	COPA_T1	0	0	0	0	0	0	-1.15	-0.83	4	4	0	3000	3000	0
8/7/2024 14:17	51004	NHAR_T1	1	1	0	6.3	6.4	0.1	-0.63	-0.62	0	0	0	0	0	0
8/7/2024 14:17	51902	COPA_T1	0	0	0	0	0	0	-1.27	-1.25	1	1	0	1200	1200	0
8/7/2024 14:17	51905	COPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 14:18	51002	NHAR_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
8/7/2024 14:18	51004	NHAR_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
8/7/2024 14:18	51006	NHAR_T1	0	0	0	0	0	0	-1.05	-1.07	2	2	0	2100	2100	0
8/7/2024 14:18	51906	COPA_T1	0	0	0	0	0	0	-0.57	-0.42	2	2	0	1500	1500	0
8/7/2024 14:18	51904	COPA_T1	6	5	-1	1.48	0.92	-0.56	0	0	0	0	0	0	0	0
8/7/2024 14:19	51904	COPA_T1	6	5	-1	1.48	0.92	-0.56	-1.4	-1.39	2	2	0	1200	1200	0
8/7/2024 14:21	52501	PROG_T1	1	0	-1	0.1	0	-0.1	-0.77	-0.85	1	1	0	300	300	0
8/7/2024 14:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 14:21	66505	SMAN_T2	0	0	0	0	0	0	0.49	0.53	3	3	0	2100	2100	0
8/7/2024 14:24	66702	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 14:24	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 14:26	66703	STRA_T1	0	0	0	0	0	0	0.72	0.75	0	0	0	0	0	0
8/7/2024 14:26	52501	PROG_T1	1	0	-1	0.1	0	-0.1	-0.85	-0.86	1	1	0	300	300	0
8/7/2024 14:27	46302	ROHR_T1	76	7	-69	0.34	0.4	0.06	0	0	0	0	0	0	0	0
8/7/2024 14:27	29402	BELT_T1	30	1	-29	0.56	9.5	8.94	0	0	0	0	0	0	0	0
8/7/2024 14:27	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 14:27	46301	ROHR_T1	202	52	-150	0.38	0.16	-0.22	0.34	0.37	0	0	0	0	0	0
8/7/2024 14:28	61001	DONV_T1	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
8/7/2024 14:30	43106	SMIL_T2	0	0	0	0	0	0	-0.45	-0.52	2	2	0	2400	2400	0
8/7/2024 14:34	46302	ROHR_T1	0	3	3	0	0.3	0.3	0	0.14	0	0	0	0	0	0
8/7/2024 14:34	64101	REFR_T1	1	0	-1	0.2	0	-0.2	0.3	0.23	0	0	0	0	0	0
8/7/2024 14:34	46301	ROHR_T1	52	22	-30	0.16	0.12	-0.04	0	0	0	0	0	0	0	0
8/7/2024 14:35	64101	REFR_T1	1	0	-1	0.2	0	-0.2	0.3	0.23	0	0	0	0	0	0
8/7/2024 14:36	64101	REFR_T1	1	0	-1	0.2	0	-0.2	0.68	-0.79	0	0	0	0	0	0
8/7/2024 14:37	64101	REFR_T1	1	0	-1	0.2	0	-0.2	0.45	-0.53	0	0	0	0	0	0
8/7/2024 14:38	61502	EPET_T1	0	0	0	0	0	0	-1.79	-1.96	0	0	0	0	0	0
8/7/2024 14:39	42701	AUGU_T1	1	1	0	0.9	1.4	0.5	0	0	2	2	0	1800	1800	0
8/7/2024 14:39	54201	PENN_T1	38	25	-13	0.32	0.43	0.11	0	0	0	0	0	0	0	0
8/7/2024 14:39	45602	WOOL_T1	0	0	0	0	0	0	0.98	0.97	0	0	0	0	0	0
8/7/2024 14:39	64101	REFR_T1	1	0	-1	0.2	0	-0.2	0.23	-0.26	0	0	0	0	0	0
8/7/2024 14:39	54203	PENN_T1	19	18	-1	1.05	0.84	-0.21	-0.49	-0.45	0	0	0	0	0	0
8/7/2024 14:39	66901	SHIL_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
8/7/2024 14:39	61505	EPET_T1	0	0	0	0	0	0	0.85	0.91	0	0	0	0	0	0
8/7/2024 14:40	54206	PENN_T2	0	0	0	0	0	0	-0.39	-0.44	0	0	0	0	0	0
8/7/2024 14:40	45602	WOOL_T1	0	0	0	0	0	0	0.98	0.97	0	0	0	0	0	0
8/7/2024 14:40	54203	PENN_T1	19	18	-1	1.05	0.84	-0.21	0	0	0	0	0	0	0	0
8/7/2024 14:40	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 14:40	54201	PENN_T1	38	25	-13	0.32	0.43	0.11	-0.52	-0.51	0	0	0	0	0	0
8/7/2024 14:41	54206	PENN_T2	0	0	0	0	0	0	-0.39	-0.44	0	0	0	0	0	0
8/7/2024 14:41	45602	WOOL_T1	0	0	0	0	0	0	0.98	0.97	0	0	0	0	0	0
8/7/2024 14:41	46206	DANV_T2	1	5	4	1.9	1.35	-0.55	0	0	0	0	0	0	0	0
8/7/2024 14:41	46203	DANV_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
8/7/2024 14:42	54201	PENN_T1	38	25	-13	0.32	0.43	0.11	-1.05	-1.02	0	0	0	0	0	0
8/7/2024 14:42	54203	PENN_T1	19	18	-1	1.05	0.84	-0.21	-0.49	-0.45	0	0	0	0	0	0
8/7/2024 14:43	41302	FISH_T2	12	14	2	0.68	0.64	-0.04	0	0	0	0	0	0	0	0
8/7/2024 14:43	46206	DANV_T2	1	5	4	1.9	1.35	-0.55	1.69	1.71	2	2	0	2100	2100	0
8/7/2024 14:43	41304	FISH_T2	1	1	0	0	0	0	-0.51	-0.65	0	0	0	0	0	0
8/7/2024 14:43	61505	EPET_T1	0	0	0	0	0	0	0.85	0.91	0	0	0	0	0	0
8/7/2024 14:44	51904	COPA_T1	5	5	0	0.92	0.68	-0.24	0	0	0	0	0	0	0	0
8/7/2024 14:44	51906	COPA_T1	0	0	0	0	0	0	-0.54	-0.49	2	2	0	1500	1500	0
8/7/2024 14:44	46203	DANV_T2	0	0	0	0	0	0	-0.54	-0.58	0	0	0	0	0	0
8/7/2024 14:44	46206	DANV_T2	1	5	4	1.9	1.35	-0.55	0	0	0	0	0	0	0	0
8/7/2024 14:46	41304	FISH_T2	1	1	0	0	0	0	-0.26	-0.33	0	0	0	0	0	0
8/7/2024 14:46	41302	FISH_T2	12	14	2	0.64	0	-0.64	0	0	0	0	0	0	0	0
8/7/2024 14:46	46302	ROHR_T1	4	8	4	0.48	0.73	0.25	0.14	0.13	0	0	0	0	0	0
8/7/2024 14:46	46301	ROHR_T1	0	40	40	0	0.15	0.15	0	0	0	0	0	0	0	0
8/7/2024 14:48	51906	COPA_T1	0	0	0	0	0	0	-0.54	-0.49	2	2	0	1500	1500	0
8/7/2024 14:48	51904	COPA_T1	5	5	0	0.6	0.78	0.18	0	0	0	0	0	0	0	0
8/7/2024 14:48	51901	COPA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 14:49	66302	MCGO_T2	0	0	0	0	0	0	-1.49	-0.78	1	1	0	600	600	0
8/7/2024 14:55	40902	JESH_T1	0	0	0	0	0	0	-0.14	-0.12	1	1	0	600	600	0
8/7/2024 14:55	40901	JESH_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
8/7/2024 14:56	40902	JESH_T1	0	0	0	0	0	0	-0.14	-0.12	1	1	0	600	600	0
8/7/2024 14:56	40901	JESH_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
8/7/2024 14:58	63602	LETO_T1	0	0	0	0	0	0	-0.12	-0.13	1	1	0	600	600	0
8/7/2024 14:58	24101	EHAZ_T1	6	0	-6	0.17	0	-0.17	0	0	0	0	0	0	0	0
8/7/2024 14:58	24104	EHAZ_T1	0	25	25	0	0.14	0.14	-1.88	-1.87	1	1	0	1200	1200	0
8/7/2024 14:58	24105	EHAZ_T1	4	4	0	5.75	5.85	0.1	0	0	0	0	0	0	0	0
8/7/2024 14:59	57501	LAWN_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 14:59	24104	EHAZ_T1	0	25	25	0	0.14	0.14	-1.88	-1.87	1	1	0	1200	1200	0
8/7/2024 14:59	24101	EHAZ_T1	6	0	-6	0.17	0	-0.17	0	0	0	0	0	0	0	0
8/7/2024 14:59	24105	EHAZ_T1	4	4	0	5.75	5.85	0.1	0	0	0	0	0	0	0	0
8/7/2024 15:00	64401	LAND_T1	0	0	0	0	0	0	-0.96	-0.89	1	1	0	600	600	0
8/7/2024 15:00	41202	KENM_T2	0	0	0	0	0	0	0.9	0.92	0	0	0	0	0	0
8/7/2024 15:00	44201	POIN_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	2100	2100	0
8/7/2024 15:00	63602	LETO_T1	0	0	0	0	0	0	-0.12	-0.13	1	1	0	600	600	0
8/7/2024 15:00	64902	MILL_T2	0	0	0	0	0	0	-0.64	-0.51	1	1	0	900	900	0
8/7/2024 15:00	64403	LAND_T1	1	0	-1	9.2	0	-9.2	0	0	0	0	0	0	0	0
8/7/2024 15:01	22101	EDEL_T2	0	0	0	0	0	0	0.87	0.88	1	1	0	1200	1200	0
8/7/2024 15:01	44201	POIN_T1	0	0	0	0	0	0	-5.02	-5.09	8	8	0	8400	8400	0
8/7/2024 15:02	44201	POIN_T1	0	0	0	0	0	0	-3.77	-3.82	6	6	0	6300	6300	0
8/7/2024 15:03	64401	LAND_T1	0	0	0	0	0	0	-0.96	-0.89	1	1	0	600	600	0
8/7/2024 15:03	64403	LAND_T1	1	0	-1	9.2	0	-9.2	0	0	0	0	0	0	0	0
8/7/2024 15:04	44201	POIN_T1	0	0	0	0	0	0	-1.26	-1.27	2	2	0	2100	2100	0
8/7/2024 15:05	51204	MTON_T2	0	0	0	0	0	0	-0.19	-0.2	1	1	0	600	600	0
8/7/2024 15:08	47401	PENS_T1	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
8/7/2024 15:08	47403	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/7/2024 15:09	46903	MNTG_T2	2	4	2	0.3	0.25	-0.05	0.44	0.45	1	1	0	600	600	0
8/7/2024 15:09	46902	MNTG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/7/2024 15:10	47401	PENS_T1	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
8/7/2024 15:10	47403	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/7/2024 15:10	20802	LOPO_T1	0	1	1	0	0.1	-0.48	-0.48	1	1	0	600	600	0
8/7/2024 15:13	63502	HEID_TBX1-2	48	49	1	0.91	1.09	0.18	0.69	0.53	1	1	0	900	900	0
8/7/2024 15:16	66504	SMAN_T2	0	0	0	0	0	0	-0.57	-0.57	1	1	0	1200	1200	0
8/7/2024 15:17	66504	SMAN_T2	0	0	0	0	0	0	-1.15	-1.14	2	2	0	2400	2400	0
8/7/2024 15:18	42002	MNVL_T2	1	1	0	2.9	2.7	-0.2	0	0	0	0	0	0	0	0
8/7/2024 15:18	42001	MNVL_T2	164	165	1	0.45	0.43	-0.02	0.11	0.08	0	0	0	0	0	0
8/7/2024 15:19	52403	GRPA_T2	2	5	3	1	0.55	-0.45	0	0	0	0	0	0	0	0
8/7/2024 15:19	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/7/2024 15:19	52402	GRPA_T2	2	3	1	0.2	0.33	0.13	-0.63	-0.57	0	0	0	0	0	0
8/7/2024 15:19	60502	NMAN_T2	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
8/7/2024 15:28	45501	DERR_T2	1	1	0	0.9	0.2	-0.7	1.07	1.12	2	2	0	1800	1800	0
8/7/2024 15:33	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 15:34	64101	REFR_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
8/7/2024 15:38	23001	SAJO_T1	0	0	0	0	0	0	0.35	0.38	0	0	0	0	0	0
8/7/2024 15:51	13503	MCMI_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
8/7/2024 15:57	12802	MICK_T1	0	5	5	0	0.14	0.14	-0.84	-0.84	0	0	0	0	0	0
8/7/2024 15:57	12205	FOGE_T1	0	0	0	0	0	0	2.04	1.81	1	1	0	600	600	0
8/7/2024 15:57	46004	BERW_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
8/7/2024 15:57	12001	HATF_T1	0	0	0	0	0	0	2.43	2.33	2	2	0	1200	1200	0
8/7/2024 15:57	10705	CATA_T2	0	0	0	0	0	0	-2.66	-2.6	0	0	0	0	0	0
8/7/2024 15:57	12006	HATF_T1	0	0	0	0	0	0	0	-0.03	2	2	0	2400	2400	0
8/7/2024 15:57	16006	DORN_T2	0	0	0	0	0	0	-0.32	-0.35	0	0	0	0	0	0
8/7/2024 15:57	14303	SUMN_T1	1	1	0	6.9	6.6	-0.3	0	0	0	0	0	0	0	0
8/7/2024 15:57	16101	BING_T2	0	0	0	0	0	0	0.75	0.73	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/7/2024 15:57	12807	MICK_T1	1	1	0	0.8	1.2	0.4	-0.67	-0.67	0	0	0	0	0	0
8/7/2024 15:57	14401	SSLA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/7/2024 15:57	11201	ELHE_T2	0	0	0	0	0	0	-0.53	-0.56	2	2	0	2400	2400	0
8/7/2024 15:57	13101	NHAM_T1	0	0	0	0	0	0	-3.28	-3.35	4	4	0	4200	4200	0
8/7/2024 15:57	12003	HATF_T1	0	0	0	0	0	0	-0.66	-0.66	2	2	0	2400	2400	0
8/7/2024 15:57	14307	SUMN_T1	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
8/7/2024 15:57	12606	MACA_T1	0	0	0	0	0	0	0.25	0.11	1	1	0	900	900	0
8/7/2024 15:57	15204	SFAR_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/7/2024 15:57	15404	WALL_T1	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
8/7/2024 15:57	14601	SWHI_T1	0	0	0	0	0	0	-1.59	-1.6	0	0	0	0	0	0
8/7/2024 15:57	12801	MICK_T1	0	0	0	0	0	0	-0.54	-0.62	1	1	0	600	600	0
8/7/2024 15:57	11202	ELHE_T2	0	0	0	0	0	0	0.5	0.55	2	2	0	2400	2400	0
8/7/2024 15:57	11102	EGYP_T1	0	0	0	0	0	0	-0.05	-0.17	0	0	0	0	0	0
8/7/2024 15:57	12002	HATF_T1	0	0	0	0	0	0	-1.73	-1.78	2	2	0	2400	2400	0
8/7/2024 15:57	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/7/2024 15:57	17002	RIRO_T2	0	10	10	0	0.13	0.13	0.69	0.64	0	0	0	0	0	0
8/7/2024 15:57	15402	WALL_T1	0	1	1	0	0	0	0.53	0.56	0	0	0	0	0	0
8/7/2024 15:57	14802	TREI_T2	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
8/7/2024 15:57	10702	CATA_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/7/2024 15:57	12604	MACA_T1	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
8/7/2024 15:57	13905	SEID_T1	0	0	0	0	0	0	-0.73	-0.72	1	1	0	1200	1200	0
8/7/2024 15:57	14404	SSLA_T1	0	0	0	0	0	0	0.54	0.61	0	0	0	0	0	0
8/7/2024 15:57	13806	SALI_T1	0	0	0	0	0	0	0.88	0.13	4	4	0	4800	4800	0
8/7/2024 15:57	16102	BING_T2	0	3	3	0	0.13	0.13	-0.57	-0.62	1	1	0	1200	1200	0
8/7/2024 16:00	62102	ELAN_T1	0	0	0	0	0	0	1.48	1.42	0	0	0	0	0	0
8/7/2024 16:09	15703	TANN_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
8/7/2024 16:09	15702	TANN_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
8/7/2024 16:19	51704	OBER_T1	0	0	0	0	0	0	0.03	0.08	0	0	0	0	0	0
8/7/2024 16:19	51702	OBER_T1	2	2	0	3	3.15	0.15	0	0	0	0	0	0	0	0
8/7/2024 16:19	12807	MICK_T1	1	1	0	1.2	1	-0.2	-0.67	-0.65	0	0	0	0	0	0
8/7/2024 16:19	12802	MICK_T1	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
8/7/2024 16:20	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
8/7/2024 16:20	65802	RTWN_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
8/7/2024 16:20	48602	POCA_T1	0	0	0	0	0	0	-0.13	-0.13	1	1	0	1200	1200	0
8/7/2024 16:20	51702	OBER_T1	2	2	0	3	3.15	0.15	-3.06	-3.1	2	2	0	1200	1200	0
8/7/2024 16:20	65004	NEFF_T2	0	0	0	0	0	0	-0.52	-0.54	1	1	0	600	600	0
8/7/2024 16:21	48602	POCA_T1	0	0	0	0	0	0	-0.13	-0.13	1	1	0	1200	1200	0
8/7/2024 16:21	66505	SMAN_T2	0	0	0	0	0	0	0.33	0.18	3	3	0	2100	2100	0
8/7/2024 16:21	57303	MOAL_T2	1	1	0	7.7	7.7	0	0	0	0	0	0	0	0	0
8/7/2024 16:21	64101	REFR_T1	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
8/7/2024 16:21	51702	OBER_T1	2	2	0	3	3.15	0.15	-3.06	-3.1	2	2	0	1200	1200	0
8/7/2024 16:21	65003	NEFF_T2	0	0	0	0	0	0	-1.26	-1.25	2	2	0	1800	1800	0
8/7/2024 16:21	44701	MUNC_T2	8	9	1	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
8/7/2024 16:21	44703	MUNC_T2	3	3	0	0.37	0.27	-0.1	0	0	0	0	0	0	0	0
8/7/2024 16:21	56501	ROCK_T2	3	2	-1	0.27	0.8	0.53	-0.73	-0.74	0	0	0	0	0	0
8/7/2024 16:21	57306	MOAL_T2	0	0	0	0	0	0	-2.79	-2.78	1	1	0	1200	1200	0
8/7/2024 16:22	48602	POCA_T1	0	0	0	0	0	0	-0.13	1.14	1	0	-1	1200	0	-1200
8/7/2024 16:22	51702	OBER_T1	2	2	0	3	3.15	0.15	-1.55	-1.56	1	1	0	600	600	0
8/7/2024 16:22	50202	HARR_T3	1	0	-1	7.3	0	-7.3	0	0	0	0	0	0	0	0
8/7/2024 16:22	50107	HARR_T3	1	1	0	7.2	6.6	-0.6	0	0	0	0	0	0	0	0
8/7/2024 16:22	50105	HARR_T3	6	6	0	6	5.97	-0.03	0	0	0	0	0	0	0	0
8/7/2024 16:22	65001	NEFF_T2	0	0	0	0	0	0	-0.03	-0.06	1	1	0	1200	1200	0
8/7/2024 16:22	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/7/2024 16:22	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/7/2024 16:22	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/7/2024 16:22	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/7/2024 16:22	56501	ROCK_T2	3	2	-1	0.27	0.8	0.53	-0.74	-0.76	0	0	0	0	0	0
8/7/2024 16:22	50201	HARR_T3	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/7/2024 16:22	14601	SWHI_T1	0	0	0	0	0	0	-0.76	-0.85	0	0	0	0	0	0
8/7/2024 16:22	24001	WIBA_T1	0	0	0	0	0	0	1.55	1.47	0	0	0	0	0	0
8/7/2024 16:22	50103	HARR_T3	0	0	0	0	0	0	0.04	0.01	1	1	0	1200	1200	0
8/7/2024 16:23	50202	HARR_T3	1	0	-1	7.3	0	-7.3	0	0	0	0	0	0	0	0
8/7/2024 16:23	50105	HARR_T3	6	6	0	6	5.97	-0.03	0	0	0	0	0	0	0	0
8/7/2024 16:23	48602	POCA_T1	0	0	0	0	0	0	-0.13	1.14	1	0	-1	1200	0	-1200
8/7/2024 16:23	50201	HARR_T3	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/7/2024 16:23	14604	SWHI_T1	0	0	0	0	0	0	0.07	0.03	1	1	0	1200	1200	0
8/7/2024 16:23	50107	HARR_T3	1	1	0	7.2	6.6	-0.6	0.82	0.85	0	0	0	0	0	0
8/7/2024 16:23	14601	SWHI_T1	0	0	0	0	0	0	-0.76	-0.85	0	0	0	0	0	0
8/7/2024 16:23	56501	ROCK_T2	3	2	-1	0.27	0.8	0.53	-0.74	-0.76	0	0	0	0	0	0
8/7/2024 16:24	65802	RTWN_T2	0	0	0	0	0	0	-0.6	-0.47	0	0	0	0	0	0
8/7/2024 16:24	56501	ROCK_T2	3	2	-1	0.27	0.8	0.53	-0.74	-0.76	0	0	0	0	0	0
8/7/2024 16:24	14601	SWHI_T1	0	0	0	0	0	0	-0.76	-0.85	0	0	0	0	0	0
8/7/2024 16:24	51702	OBER_T1	2	2	0	3	3.15	0.15	-1.55	-1.56	1	1	0	600	600	0
8/7/2024 16:24	48602	POCA_T1	0	0	0	0	0	0	-0.13	1.14	1	0	-1	1200	0	-1200
8/7/2024 16:25	64101	REFR_T1	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
8/7/2024 16:25	14601	SWHI_T1	0	0	0	0	0	0	-0.76	-0.85	0	0	0	0	0	0
8/7/2024 16:26	14601	SWHI_T1	0	0	0	0	0	0	-0.76	-0.85	0	0	0	0	0	0
8/7/2024 16:27	50107	HARR_T3	1	1	0	7.2	6.6	-0.6	0	0	0	0	0	0	0	0
8/7/2024 16:27	29402	BELT_T1	1	0	-1	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
8/7/2024 16:27	50201	HARR_T3	1	1	0	0.4	0.3	-0.1	-0.49	-0.49	1	1	0	1200	1200	0
8/7/2024 16:27	50105	HARR_T3	6	6	0	6	5.97	-0.03	0	0	0	0	0	0	0	0
8/7/2024 16:27	50202	HARR_T3	1	0	-1	7.3	0	-7.3	0	0	0	0	0	0	0	0
8/7/2024 16:27	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 16:28	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 16:32	63804	HEMP_T1	1	1	0	6.1	6	-0.1	-1.19	-1.27	0	0	0	0	0	0
8/7/2024 16:32	47101	MARL_T1	0	3	3	0	0	0	-0.31	-0.44	0	0	0	0	0	0
8/7/2024 16:32	40101	HUNT_T2	0	0	0	0	0	0	-0.45	-0.5	0	0	0	0	0	0
8/7/2024 16:34	47101	MARL_T1	0	3	3	0	0	0	-0.31	-0.44	0	0	0	0	0	0
8/7/2024 16:35	58203	NEWV_T2	2	8	6	2.85	1.97	-0.88	-2.06	-2.1	0	0	0	0	0	0
8/7/2024 16:35	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 16:35	46101	MACI_T2	0	0	0	0	0	0	0.03	0.03	1	1	0	1200	1200	0
8/7/2024 16:39	59101	WALK_T2	0	0	0	0	0	0	1.3	1.34	1	1	0	600	600	0
8/7/2024 16:39	59102	WALK_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/7/2024 16:40	65001	NEFF_T2	0	0	0	0	0	0	-0.06	-0.18	1	1	0	1200	1200	0
8/7/2024 16:40	12604	MACA_T1	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
8/7/2024 16:41	20401	ASHF_T2	6	9	3	0.27	0.46	0.19	0	0	0	0	0	0	0	0
8/7/2024 16:41	20403	ASHF_T2	0	0	0	0	0	0	0.71	0.78	0	0	0	0	0	0
8/7/2024 16:41	63401	HONY_T1	0	0	0	0	0	0	0.26	0.24	1	1	0	600	600	0
8/7/2024 16:41	20402	ASHF_T2	2	4	2	0.15	0.28	0.13	0	0	0	0	0	0	0	0
8/7/2024 16:44	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 16:44	29402	BELT_T1	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
8/7/2024 16:53	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
8/7/2024 17:01	13801	SALI_T1	0	0	0	0	0	0	0.95	0.94	0	0	0	0	0	0
8/7/2024 17:06	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 17:06	65802	RTWN_T2	0	0	0	0	0	0	-0.59	-0.58	0	0	0	0	0	0
8/7/2024 17:07	65802	RTWN_T2	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
8/7/2024 17:10	57106	SPHI_T2	2	3	1	0.3	0.83	0.53	0	0	0	0	0	0	0	0
8/7/2024 17:10	57104	SPHI_T2	0	0	0	0	0	0	-1.34	-1.38	1	1	0	900	900	0
8/7/2024 17:10	51402	LYKE_T1	0	21	21	0	0.13	0.13	-1.73	-1.72	2	2	0	1200	1200	0
8/7/2024 17:10	57101	SPHI_T2	6	6	0	0.35	1.02	0.67	0	0	0	0	0	0	0	0
8/7/2024 17:11	60404	DILL_T2	0	0	0	0	0	0	-0.76	0.56	2	1	-1	2400	1200	-1200
8/7/2024 17:15	29402	BELT_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
8/7/2024 17:15	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 17:15	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
8/7/2024 17:15	65001	NEFF_T2	0	0	0	0	0	0	-0.24	-0.25	1	1	0	1200	1200	0
8/7/2024 17:17	46101	MACI_T2	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
8/7/2024 17:18	66301	MCGO_T2	0	0	0	0	0	0	-1.4	-1.41	0	0	0	0	0	0
8/7/2024 17:31	29402	BELT_T1	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
8/7/2024 17:31	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 17:47	12807	MICK_T1	1	1	0	0.8	1	0.2	-0.66	-0.63	0	0	0	0	0	0
8/7/2024 17:48	66502	SMAN_T2	0	0	0	0	0	0	0.33	0.17	0	0	0	0	0	0
8/7/2024 17:50	66502	SMAN_T2	0	0	0	0	0	0	0.33	0.17	0	0	0	0	0	0
8/7/2024 18:32	12602	MACA_T1	0	0	0	0	0	0	-1.02	-1.11	0	0	0	0	0	0
8/7/2024 20:06	64902	MILL_T2	0	0	0	0	0	0	-0.19	-0.22	1	1	0	900	900	0
8/7/2024 20:22	15603	NSTR_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
8/7/2024 20:22	15601	NSTR_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
8/7/2024 20:33	10801	CHHI_T1	0	0	0	0	0	0	-0.5	-0.52	1	1	0	900	900	0
8/7/2024 20:47	46206	DANV_T2	0	0	0	0	0	0	1.37	1.4	2	2	0	2100	2100	0
8/7/2024 20:51	64704	LITI_T1	0	0	0	0	0	0	0.21	0.12	1	1	0	600	600	0
8/7/2024 20:55	40602	PIGR_T1	1	1	0	0.4	0.4	0	-0.28	-0.29	0	0	0	0	0	0
8/7/2024 20:55	40601	PIGR_T1	27	22	-5	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
8/7/2024 21:01	55102	WERT_T2	0	0	0	0	0	0	-0.43	-0.42	1	1	0	600	600	0
8/7/2024 21:20	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 21:22	17002	RIRO_T2	25	20	-5	0.16	0.13	-0.03	0.51	0.49	0	0	0	0	0	0
8/7/2024 21:23	14604	SWHI_T1	0	0	0	0	0	0	0.23	0.02	1	1	0	1200	1200	0
8/7/2024 21:23	51204	MTON_T2	0	0	0	0	0	0	-0.29	-0.31	1	1	0	600	600	0
8/7/2024 21:25	14601	SWHI_T1	0	0	0	0	0	0	-2.07	-1.94	0	0	0	0	0	0
8/7/2024 21:25	12807	MICK_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
8/7/2024 21:26	14303	SUMN_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
8/7/2024 21:26	14601	SWHI_T1	0	0	0	0	0	0	-1.03	-0.97	0	0	0	0	0	0
8/7/2024 21:26	13806	SALI_T1	0	0	0	0	0	0	0.19	0.15	1	1	0	1200	1200	0
8/7/2024 21:26	14307	SUMN_T1	0	0	0	0	0	0	0.84	0.83	0	0	0	0	0	0
8/7/2024 21:28	12807	MICK_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
8/7/2024 21:28	12801	MICK_T1	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
8/7/2024 21:28	12606	MACA_T1	0	0	0	0	0	0	-0.02	-0.02	1	1	0	900	900	0
8/7/2024 21:30	16006	DORN_T2	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
8/7/2024 21:30	65003	NEFF_T2	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
8/7/2024 21:30	65001	NEFF_T2	0	0	0	0	0	0	-0.47	-0.57	1	1	0	1200	1200	0
8/7/2024 21:31	13806	SALI_T1	0	0	0	0	0	0	0.19	0.15	1	1	0	1200	1200	0
8/7/2024 21:31	51002	NHAR_T1	1	2	1	1.7	0.9	-0.8	0	0	0	0	0	0	0	0
8/7/2024 21:31	51004	NHAR_T1	1	3	2	5.7	2	-3.7	-0.88	-0.91	0	0	0	0	0	0
8/7/2024 21:32	54201	PENN_T1	126	96	-30	0.41	0.46	0.05	-0.69	-0.67	0	0	0	0	0	0
8/7/2024 21:32	54205	PENN_T1	62	38	-24	0.13	0.11	-0.02	0	0	0	0	0	0	0	0
8/7/2024 21:32	57505	LAWN_T3	1	0	-1	0.1	0	-0.1	0.93	0.89	0	0	0	0	0	0
8/7/2024 21:32	54203	PENN_T1	87	49	-38	0.43	0.66	0.23	0	0	0	0	0	0	0	0
8/7/2024 21:33	57104	SPHI_T2	0	0	0	0	0	0	-0.59	-0.66	0	0	0	0	0	0
8/7/2024 21:33	51002	NHAR_T1	1	2	1	1.7	0.9	-0.8	0	0	0	0	0	0	0	0
8/7/2024 21:33	13806	SALI_T1	0	0	0	0	0	0	0.19	0.15	1	1	0	1200	1200	0
8/7/2024 21:33	51004	NHAR_T1	1	3	2	5.7	2	-3.7	0	0	0	0	0	0	0	0
8/7/2024 21:33	11102	EGYP_T1	0	0	0	0	0	0	-0.19	-0.11	0	0	0	0	0	0
8/7/2024 21:33	57106	SPHI_T2	3	3	0	1.47	1.53	0.06	0	0	0	0	0	0	0	0
8/7/2024 21:33	24202	PROV_T4	1	1	0	0	0	0	-0.25	-0.31	1	1	0	1200	1200	0
8/7/2024 21:33	57101	SPHI_T2	6	6	0	1	1.23	0.23	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/7/2024 21:34	51004	NHAR_T1	1	3	2	5.7	2	-3.7	0	0	0	0	0	0	0	0
8/7/2024 21:34	54203	PENN_T1	87	49	-38	0.43	0.66	0.23	0.37	0.35	0	0	0	0	0	0
8/7/2024 21:34	54205	PENN_T1	62	38	-24	0.13	0.11	-0.02	0	0	0	0	0	0	0	0
8/7/2024 21:34	54201	PENN_T1	126	96	-30	0.41	0.46	0.05	-0.69	-0.67	0	0	0	0	0	0
8/7/2024 21:34	51002	NHAR_T1	1	2	1	1.7	0.9	-0.8	0	0	0	0	0	0	0	0
8/7/2024 21:34	14601	SWHI_T1	0	0	0	0	0	0	-1.03	-0.97	0	0	0	0	0	0
8/7/2024 21:35	13801	SALI_T1	0	0	0	0	0	0	0.84	0.83	0	0	0	0	0	0
8/7/2024 21:36	15406	WALL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/7/2024 21:36	15404	WALL_T1	0	0	0	0	0	0	-1.51	-1.52	0	0	0	0	0	0
8/7/2024 21:36	11103	EGYP_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
8/7/2024 21:37	50107	HARR_T3	1	1	0	6.6	6.3	-0.3	0	0	0	0	0	0	0	0
8/7/2024 21:37	50202	HARR_T3	1	1	0	0.5	0.5	0	0.05	-0.14	0	0	0	0	0	0
8/7/2024 21:37	63602	LETO_T1	0	0	0	0	0	0	-0.02	0.02	0	0	0	0	0	0
8/7/2024 21:37	50102	HARR_T3	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/7/2024 21:37	50103	HARR_T3	2	2	0	0.95	0.6	-0.35	0	0	0	0	0	0	0	0
8/7/2024 21:37	50105	HARR_T3	7	7	0	5.5	5.47	-0.03	0	0	0	0	0	0	0	0
8/7/2024 21:37	50201	HARR_T3	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/7/2024 21:37	11202	ELHE_T2	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
8/7/2024 21:38	20802	LOPO_T1	1	1	0	0.1	0.1	0	-0.49	-0.49	1	1	0	600	600	0
8/7/2024 21:38	41304	FISH_T2	1	1	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
8/7/2024 21:38	50105	HARR_T3	7	7	0	5.5	5.47	-0.03	0	0	0	0	0	0	0	0
8/7/2024 21:38	50107	HARR_T3	1	1	0	6.6	6.3	-0.3	0	0	0	0	0	0	0	0
8/7/2024 21:38	51202	MTON_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
8/7/2024 21:38	11103	EGYP_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
8/7/2024 21:38	50102	HARR_T3	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/7/2024 21:38	13905	SEID_T1	0	0	0	0	0	0	-0.82	-0.87	1	1	0	1200	1200	0
8/7/2024 21:38	51905	COPA_T1	0	0	0	0	0	0	1.08	1.01	0	0	0	0	0	0
8/7/2024 21:38	50201	HARR_T3	1	1	0	0.3	0.1	-0.2	0.7	0.7	0	0	0	0	0	0
8/7/2024 21:38	50103	HARR_T3	2	2	0	0.95	0.6	-0.35	0	0	0	0	0	0	0	0
8/7/2024 21:38	43802	SWIL_T1	0	0	0	0	0	0	0.04	0.01	1	1	0	600	600	0
8/7/2024 21:38	43801	SWIL_T1	2	2	0	3.05	3.05	0	0	0	0	0	0	0	0	0
8/7/2024 21:38	50202	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/7/2024 21:38	51904	COPA_T1	5	5	0	0.74	0.56	-0.18	0	0	0	0	0	0	0	0
8/7/2024 21:38	51902	COPA_T1	0	0	0	0	0	0	-0.35	-0.38	1	1	0	1200	1200	0
8/7/2024 21:39	54201	PENN_T1	126	96	-30	0.41	0.46	0.05	0	0	0	0	0	0	0	0
8/7/2024 21:39	54205	PENN_T1	62	38	-24	0.13	0.11	-0.02	0	0	0	0	0	0	0	0
8/7/2024 21:39	54203	PENN_T1	87	49	-38	0.43	0.66	0.23	0.35	0.95	0	0	0	0	0	0
8/7/2024 21:39	51002	NHAR_T1	1	2	1	1.7	0.9	-0.8	0	0	0	0	0	0	0	0
8/7/2024 21:39	51004	NHAR_T1	1	3	2	5.7	2	-3.7	-0.91	-0.9	0	0	0	0	0	0
8/7/2024 21:40	50502	MECH_T1	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
8/7/2024 21:40	13104	NHAM_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/7/2024 21:40	14201	EALL_T1	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
8/7/2024 21:40	24204	PROV_T3	7	18	11	0.87	0.43	-0.44	0	0	0	0	0	0	0	0
8/7/2024 21:40	52501	PROG_T1	0	0	0	0	0	0	0.07	0.04	1	1	0	300	300	0
8/7/2024 21:40	56501	ROCK_T2	10	2	-8	0.3	0.8	0.5	-0.93	0.34	0	0	0	0	0	0
8/7/2024 21:40	50501	MECH_T1	4	4	0	1.5	1.55	0.05	0	0	0	0	0	0	0	0
8/7/2024 21:40	50505	MECH_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
8/7/2024 21:40	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/7/2024 21:40	65207	PRIN_T4	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/7/2024 21:40	24201	PROV_T3	75	78	3	0.24	0.23	-0.01	-1.2	-1.24	1	1	0	1200	1200	0
8/7/2024 21:40	10705	CATA_T2	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
8/7/2024 21:40	13101	NHAM_T1	0	0	0	0	0	0	-2.23	-1.54	2	2	0	2400	2400	0
8/7/2024 21:40	11202	ELHE_T2	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
8/7/2024 21:40	24205	PROV_T3	24	43	19	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
8/7/2024 21:41	24205	PROV_T3	24	43	19	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
8/7/2024 21:41	56501	ROCK_T2	10	2	-8	0.3	0.8	0.5	-0.93	0.34	0	0	0	0	0	0
8/7/2024 21:41	16006	DORN_T2	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
8/7/2024 21:41	21703	SUBU_T1	0	0	0	0	0	0	0.73	0.7	0	0	0	0	0	0
8/7/2024 21:41	13501	MCMI_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
8/7/2024 21:41	24201	PROV_T3	75	78	3	0.24	0.23	-0.01	-1.2	-1.24	1	1	0	1200	1200	0
8/7/2024 21:41	21701	SUBU_T1	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
8/7/2024 21:41	24204	PROV_T3	7	18	11	0.87	0.43	-0.44	0	0	0	0	0	0	0	0
8/7/2024 21:41	21705	SUBU_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
8/7/2024 21:42	56501	ROCK_T2	10	2	-8	0.3	0.8	0.5	-0.93	0.34	0	0	0	0	0	0
8/7/2024 21:42	51904	COPA_T1	5	5	0	0.74	0.56	-0.18	0	0	0	0	0	0	0	0
8/7/2024 21:42	15703	TANN_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
8/7/2024 21:42	15702	TANN_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
8/7/2024 21:42	11102	EGYP_T1	0	0	0	0	0	0	-0.11	-0.18	0	0	0	0	0	0
8/7/2024 21:42	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/7/2024 21:42	67103	SPRI_T1	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
8/7/2024 21:42	51906	COPA_T1	0	0	0	0	0	0	-0.85	-0.84	2	2	0	1500	1500	0
8/7/2024 21:42	12002	HATF_T1	0	0	0	0	0	0	-0.95	-0.97	1	1	0	1200	1200	0
8/7/2024 21:42	10705	CATA_T2	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
8/7/2024 21:42	29402	BELT_T1	1	1	0	7.1	7.4	0.3	0	0	0	0	0	0	0	0
8/7/2024 21:43	12003	HATF_T1	0	0	0	0	0	0	0.26	0.23	1	1	0	1200	1200	0
8/7/2024 21:43	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/7/2024 21:43	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	-0.4	-0.44	0	0	0	0	0	0
8/7/2024 21:43	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
8/7/2024 21:43	12002	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 21:43	20401	ASHF_T2	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/7/2024 21:43	56501	ROCK_T2	10	2	-8	0.3	0.8	0.5	-0.93	0.34	0	0	0	0	0	0
8/7/2024 21:43	51204	MTON_T2	0	0	0	0	0	0	-0.31	-0.29	1	1	0	600	600	0
8/7/2024 21:44	43106	SMIL_T2	0	0	0	0	0	0	-0.06	-0.04	1	1	0	1200	1200	0
8/7/2024 21:44	16102	BING_T2	0	0	0	0	0	0	0.49	0.43	0	0	0	0	0	0
8/7/2024 21:44	43103	SMIL_T2	3	4	1	0.23	0.4	0.17	0	0	0	0	0	0	0	0
8/7/2024 21:44	60404	DILL_T2	0	0	0	0	0	0	0.18	0.15	1	1	0	1200	1200	0
8/7/2024 21:44	43105	SMIL_T2	2	6	4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
8/7/2024 21:44	46004	BERW_T2	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
8/7/2024 21:44	44201	POIN_T1	0	0	0	0	0	0	-4.48	-4.39	6	6	0	6300	6300	0
8/7/2024 21:44	43102	SMIL_T2	6	7	1	0.35	0.63	0.28	0	0	0	0	0	0	0	0
8/7/2024 21:45	64101	REDR_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
8/7/2024 21:45	20401	ASHF_T2	2	3	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/7/2024 21:45	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 21:45	20402	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/7/2024 21:45	65004	NEFF_T2	0	0	0	0	0	0	-0.58	-0.65	0	0	0	0	0	0
8/7/2024 21:45	27302	HARR_T1	0	0	0	0	0	0	0.17	0.24	0	0	0	0	0	0
8/7/2024 21:45	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
8/7/2024 21:45	44201	POIN_T1	0	0	0	0	0	0	-2.99	-2.93	4	4	0	4200	4200	0
8/7/2024 21:45	29402	BELT_T1	1	15	14	7	7.4	0.4	0	0	0	0	0	0	0	0
8/7/2024 21:45	63602	LETO_T1	0	12	12	0	0.14	0.14	-0.02	0.02	0	0	0	0	0	0
8/7/2024 21:45	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/7/2024 21:46	12602	MACA_T1	0	0	0	0	0	0	0.02	0.11	0	0	0	0	0	0
8/7/2024 21:46	23202	HIRU_T2	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
8/7/2024 21:46	44201	POIN_T1	0	0	0	0	0	0	-1.49	-1.46	2	2	0	2100	2100	0
8/7/2024 21:46	65207	PRIN_T4	0	0	0	0	0	0	0	0	1	2	1	1200	1800	600
8/7/2024 21:46	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/7/2024 21:46	51904	COPA_T1	5	5	0	0.56	0.46	-0.1	-0.88	-0.88	2	2	0	1200	1200	0
8/7/2024 21:46	51702	OBER_T1	2	2	0	3.45	3.25	-0.2	-0.5	-0.52	1	1	0	600	600	0
8/7/2024 21:46	11201	ELHE_T2	0	0	0	0	0	0	-0.75	-0.74	2	2	0	2400	2400	0
8/7/2024 21:46	12802	MICK_T1	0	0	0	0	0	0	-1.14	-1.17	0	0	0	0	0	0
8/7/2024 21:47	13806	SALI_T1	0	0	0	0	0	0	0.15	0.16	1	1	0	1200	1200	0
8/7/2024 21:47	45602	WOOL_T1	0	0	0	0	0	0	0.83	0.8	0	0	0	0	0	0
8/7/2024 21:47	45701	LIND_T2	0	0	0	0	0	0	-1.48	-1.56	0	0	0	0	0	0
8/7/2024 21:47	51702	OBER_T1	2	2	0	3.45	3.25	-0.2	-0.5	-0.52	1	1	0	600	600	0
8/7/2024 21:48	14601	SWHI_T1	0	0	0	0	0	0	-0.97	-1.01	0	0	0	0	0	0
8/7/2024 21:48	50103	HARR_T3	2	2	0	0.6	0.4	-0.2	-0.27	-0.34	1	1	0	1200	1200	0
8/7/2024 21:48	20603	GRWO_T2	0	7	7	0	0.1	0.1	-0.53	-0.57	1	1	0	900	900	0
8/7/2024 21:48	50107	HARR_T3	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
8/7/2024 21:48	50202	HARR_T3	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/7/2024 21:48	50105	HARR_T3	7	7	0	5.63	5.73	0.1	0	0	0	0	0	0	0	0
8/7/2024 21:48	61303	EARL_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
8/7/2024 21:48	50201	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/7/2024 21:48	41304	FISH_T2	1	1	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
8/7/2024 21:48	51702	OBER_T1	2	2	0	3.45	3.25	-0.2	-0.5	-0.52	1	1	0	600	600	0
8/7/2024 21:49	50202	HARR_T3	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/7/2024 21:49	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/7/2024 21:49	50201	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/7/2024 21:49	50107	HARR_T3	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
8/7/2024 21:49	23901	ERMO_T2	0	19	19	0	0.13	0.13	-0.27	-0.28	0	0	0	0	0	0
8/7/2024 21:49	29402	BELT_T1	1	15	14	7	7.4	0.4	0	0	0	0	0	0	0	0
8/7/2024 21:49	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.09	2	2	0	1800	1800	0
8/7/2024 21:49	50103	HARR_T3	2	2	0	0.6	0.4	-0.2	-0.27	-0.34	1	1	0	1200	1200	0
8/7/2024 21:49	46203	DANV_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
8/7/2024 21:49	54201	PENN_T1	94	57	-37	0.44	0.46	0.02	-0.67	-0.73	0	0	0	0	0	0
8/7/2024 21:49	45702	LIND_T2	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
8/7/2024 21:49	65803	RTWN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/7/2024 21:49	54203	PENN_T1	49	19	-30	0.66	1.21	0.55	0	0	0	0	0	0	0	0
8/7/2024 21:49	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 21:49	50105	HARR_T3	7	7	0	5.63	5.73	0.1	0	0	0	0	0	0	0	0
8/7/2024 21:49	54205	PENN_T1	38	0	-38	0.11	0	-0.11	0	0	0	0	0	0	0	0
8/7/2024 21:49	59101	WALK_T2	0	0	0	0	0	0	0.74	0.91	1	1	0	600	600	0
8/7/2024 21:49	65802	RTWN_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
8/7/2024 21:50	51905	COPA_T1	0	0	0	0	0	0	1.08	1.01	0	0	0	0	0	0
8/7/2024 21:50	50201	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/7/2024 21:50	50103	HARR_T3	2	2	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
8/7/2024 21:50	41202	KENM_T2	0	0	0	0	0	0	0.73	0.7	0	0	0	0	0	0
8/7/2024 21:50	51904	COPA_T1	5	5	0	0.56	0.46	-0.1	0	0	0	0	0	0	0	0
8/7/2024 21:50	58203	NEWV_T2	1	1	0	5.5	5.7	0.2	-1.43	-1.47	0	0	0	0	0	0
8/7/2024 21:50	50107	HARR_T3	1	1	0	6.3	6.5	0.2	0.75	0.72	0	0	0	0	0	0
8/7/2024 21:50	50105	HARR_T3	7	7	0	5.63	5.73	0.1	0	0	0	0	0	0	0	0
8/7/2024 21:50	50202	HARR_T3	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/7/2024 21:50	44201	POIN_T1	0	0	0	0	0	0	-2.99	-2.93	4	4	0	4200	4200	0
8/7/2024 21:51	47401	PENS_T1	0	0	0	0	0	0	-0.12	-0.06	0	0	0	0	0	0
8/7/2024 21:51	66504	SMAN_T2	0	0	0	0	0	0	0.08	-0.1	0	0	0	0	0	0
8/7/2024 21:51	58401	MORO_T1	0	0	0	0	0	0	-0.72	-0.75	1	1	0	600	600	0
8/7/2024 21:51	51904	COPA_T1	5	5	0	0.56	0.46	-0.1	-0.88	-0.88	2	2	0	1200	1200	0
8/7/2024 21:51	50105	HARR_T3	7	7	0	5.63	5.73	0.1	0	0	0	0	0	0	0	0
8/7/2024 21:51	50201	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/7/2024 21:51	50103	HARR_T3	2	2	0	0.6	0.4	-0.2	-0.27	-0.34	1	1	0	1200	1200	0
8/7/2024 21:51	44703	MUNC_T2	3	3	0	0.67	0.87	0.2	0	0	0	0	0	0	0	0
8/7/2024 21:51	15703	TANN_T2	1	1	0	5.1	4.8	-0.3	0	0	0	0	0	0	0	0
8/7/2024 21:51	45602	WOOL_T1	0	0	0	0	0	0	0.83	0.8	0	0	0	0	0	0
8/7/2024 21:51	65802	RTWN_T2	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/7/2024 21:51	25503	MADI_T1	144	151	7	0.5	0.67	0.17	-0.87	-0.87	0	0	0	0	0	0
8/7/2024 21:51	44701	MUNC_T2	5	16	11	0.18	0.24	0.06	0	0	0	0	0	0	0	0
8/7/2024 21:51	65803	RTWN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/7/2024 21:51	15702	TANN_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
8/7/2024 21:51	50202	HARR_T3	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/7/2024 21:51	61302	EARL_T1	0	0	0	0	0	0	-0.12	-0.06	2	2	0	1800	1800	0
8/7/2024 21:51	44702	MUNC_T2	1	10	9	0.3	0.16	-0.14	0	0	0	0	0	0	0	0
8/7/2024 21:51	14404	SSLA_T1	0	0	0	0	0	0	0.22	0.08	0	0	0	0	0	0
8/7/2024 21:51	46903	MNTG_T2	0	0	0	0	0	0	0.11	0.09	1	1	0	600	600	0
8/7/2024 21:51	50107	HARR_T3	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
8/7/2024 21:52	61301	EARL_T1	0	0	0	0	0	0	-1.09	-1.09	2	2	0	1800	1800	0
8/7/2024 21:52	12006	HATF_T1	0	0	0	0	0	0	0.52	0.44	1	1	0	1200	1200	0
8/7/2024 21:52	50202	HARR_T3	1	1	0	0.5	0.2	-0.3	-0.14	-0.01	0	0	0	0	0	0
8/7/2024 21:52	52501	PROG_T1	0	0	0	0	0	0	0.04	0.06	1	1	0	300	300	0
8/7/2024 21:52	64401	LAND_T1	0	0	0	0	0	0	-0.75	-0.93	1	1	0	600	600	0
8/7/2024 21:52	63804	HEMP_T1	1	1	0	5.7	5.2	-0.5	0	0	0	0	0	0	0	0
8/7/2024 21:52	45702	LIND_T2	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
8/7/2024 21:52	50201	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/7/2024 21:52	50107	HARR_T3	1	1	0	6.3	6.5	0.2	0.72	0.71	0	0	0	0	0	0
8/7/2024 21:52	27302	PARR_T1	0	0	0	0	0	0	0.24	0.2	0	0	0	0	0	0
8/7/2024 21:52	42201	SHEN_T2	1	1	0	0.1	0.3	0.2	-0.04	-0.04	1	1	0	600	600	0
8/7/2024 21:52	56501	ROCK_T2	2	3	1	0.8	0.3	-0.5	0.34	0.3	0	0	0	0	0	0
8/7/2024 21:52	65302	NBRI_T2	0	0	0	0	0	0	0.12	-0.72	0	1	1	0	600	600
8/7/2024 21:52	50105	HARR_T3	7	7	0	5.63	5.73	0.1	0	0	0	0	0	0	0	0
8/7/2024 21:52	50103	HARR_T3	2	2	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
8/7/2024 21:52	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/7/2024 21:52	12002	HATF_T1	0	0	0	0	0	0	-0.97	-0.99	1	1	0	1200	1200	0
8/7/2024 21:52	63802	HEMP_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
8/7/2024 21:52	41304	FISH_T2	1	1	0	0	0	0	-0.75	0.54	0	0	0	0	0	0
8/7/2024 21:53	63802	HEMP_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
8/7/2024 21:53	12001	HATF_T1	0	0	0	0	0	0	0.98	0.96	1	1	0	600	600	0
8/7/2024 21:53	13503	MCMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 21:53	44201	POIN_T1	0	0	0	0	0	0	-1.46	-1.45	2	2	0	2100	2100	0
8/7/2024 21:53	64101	REFR_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
8/7/2024 21:53	52404	GRPA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/7/2024 21:53	52402	GRPA_T2	4	4	0	0.48	0.53	0.05	-0.51	-0.54	0	0	0	0	0	0
8/7/2024 21:53	40802	EXCH_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
8/7/2024 21:53	47401	PENS_T1	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
8/7/2024 21:53	63403	HONY_T2	0	0	0	0	0	0	-1.04	-1.29	0	0	0	0	0	0
8/7/2024 21:53	46206	DANV_T2	0	0	0	0	0	0	1.42	1.35	2	2	0	2100	2100	0
8/7/2024 21:53	63804	HEMP_T1	1	1	0	5.7	5.2	-0.5	0	0	0	0	0	0	0	0
8/7/2024 21:53	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/7/2024 21:53	52403	GRPA_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/7/2024 21:53	56501	ROCK_T2	2	3	1	0.8	0.3	-0.5	0.34	0.3	0	0	0	0	0	0
8/7/2024 21:53	48902	FOSP_T2	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
8/7/2024 21:53	52401	GRPA_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/7/2024 21:54	65205	PRIN_T1	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
8/7/2024 21:54	51904	COPA_T1	5	5	0	0.56	0.46	-0.1	0	0	0	0	0	0	0	0
8/7/2024 21:54	61505	EPET_T1	0	0	0	0	0	0	0.69	0.64	0	0	0	0	0	0
8/7/2024 21:54	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 21:54	56501	ROCK_T2	2	3	1	0.8	0.3	-0.5	0.34	0.3	0	0	0	0	0	0
8/7/2024 21:54	21206	ECAR_T2	1	1	0	7.8	8.5	0.7	0.26	0.31	0	0	0	0	0	0
8/7/2024 21:54	45602	WOOL_T1	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
8/7/2024 21:54	21202	ECAR_T2	0	366	366	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 21:54	44801	EDAN_T2	124	253	129	0.48	0.44	-0.04	-1.55	-1.57	0	0	0	0	0	0
8/7/2024 21:54	53601	DALM_T2	0	1	1	0	0.4	0.4	0.4	0.44	0	0	0	0	0	0
8/7/2024 21:54	51905	COPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 21:54	58202	NEWV_T1	0	0	0	0	0	0	0.45	0.26	0	0	0	0	0	0
8/7/2024 21:55	62102	ELAN_T1	0	0	0	0	0	0	1.14	1.09	0	0	0	0	0	0
8/7/2024 21:55	27302	PARR_T1	0	0	0	0	0	0	0.24	0.2	0	0	0	0	0	0
8/7/2024 21:55	52401	GRPA_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/7/2024 21:55	60502	NMAN_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
8/7/2024 21:55	64902	MILL_T2	0	0	0	0	0	0	-0.35	-0.35	1	1	0	900	900	0
8/7/2024 21:55	46203	DANV_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
8/7/2024 21:55	52404	GRPA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/7/2024 21:55	40902	JESH_T1	0	0	0	0	0	0	-0.75	-0.59	0	0	0	0	0	0
8/7/2024 21:55	52402	GRPA_T2	4	4	0	0.48	0.53	0.05	0	0	0	0	0	0	0	0
8/7/2024 21:55	52403	GRPA_T2	2	2	0	0.1	0.2	0.1	0.17	0.15	0	0	0	0	0	0
8/7/2024 21:55	64401	LAND_T1	0	0	0	0	0	0	-0.75	-0.93	1	1	0	600	600	0
8/7/2024 21:55	61301	EARL_T1	0	0	0	0	0	0	-1.09	-1.09	2	2	0	1800	1800	0
8/7/2024 21:55	40901	JESH_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
8/7/2024 21:55	64903	MILL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
8/7/2024 21:55	65001	NEFF_T2	0	0	0	0	0	0	-0.63	-0.68	1	1	0	1200	1200	0
8/7/2024 21:56	14601	SWHI_T1	0	0	0	0	0	0	-1.01	-1.07	0	0	0	0	0	0
8/7/2024 21:56	50201	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/7/2024 21:56	65803	RTWN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/7/2024 21:56	51702	OBER_T1	2	2	0	3.45	3.25	-0.2	-0.52	-0.53	1	1	0	600	600	0
8/7/2024 21:56	50107	HARR_T3	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
8/7/2024 21:56	67503	WEWI_T2	1	1	0	7.5	7.7	0.2	0	0	0	0	0	0	0	0
8/7/2024 21:56	50103	HARR_T3	2	2	0	0.6	0.4	-0.2	-0.34	-0.36	1	1	0	1200	1200	0
8/7/2024 21:56	42001	MNVL_T2	79	97	18	0.41	0.46	0.05	-0.08	-0.12	0	0	0	0	0	0
8/7/2024 21:56	44201	POIN_T1	0	0	0	0	0	0	-1.46	-1.45	2	2	0	2100	2100	0
8/7/2024 21:56	12001	HATF_T1	0	0	0	0	0	0	0.98	0.96	1	1	0	600	600	0
8/7/2024 21:56	67805	WLAN_T1	38	378	340	0.18	0.22	0.04	0	0	0	0	0	0	0	0
8/7/2024 21:56	51002	NHAR_T1	2	1	-1	0.8	1.7	0.9	0	0	0	0	0	0	0	0
8/7/2024 21:56	50105	HARR_T3	7	7	0	5.63	5.73	0.1	0	0	0	0	0	0	0	0
8/7/2024 21:56	50202	HARR_T3	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/7/2024 21:56	47401	PENS_T1	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
8/7/2024 21:56	67803	WLAN_T1	0	3	3	0	0.1	0.1	-0.61	-0.61	0	0	0	0	0	0
8/7/2024 21:56	67502	WEWI_T2	6	15	9	0.2	0.19	-0.01	-1.96	-0.17	2	0	-2	1800	0	-1800
8/7/2024 21:56	42002	MNVL_T2	1	1	0	1.9	1.6	-0.3	0	0	0	0	0	0	0	0
8/7/2024 21:56	65802	RTWN_T2	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
8/7/2024 21:56	65802	RTWN_T2	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
8/7/2024 21:56	65802	RTWN_T2	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
8/7/2024 21:56	65802	RTWN_T2	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
8/7/2024 21:56	67804	WLAN_T1	0	7	7	0	0.11	0.11	-0.82	-0.87	0	0	0	0	0	0
8/7/2024 21:56	51004	NHAR_T1	3	2	-1	2	2.95	0.95	-0.9	-0.97	0	0	0	0	0	0
8/7/2024 21:57	51904	COPA_T1	5	5	0	0.56	0.46	-0.1	0	0	0	0	0	0	0	0
8/7/2024 21:57	61002	DONV_T2	0	0	0	0	0	0	-0.68	-0.69	2	2	0	1200	1200	0
8/7/2024 21:57	63305	GREE_T1	15	9	-6	0.45	0.26	-0.19	-1.97	-1.02	1	0	-1	900	0	-900
8/7/2024 21:57	64903	MILL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
8/7/2024 21:57	51902	COPA_T1	0	0	0	0	0	0	-0.76	-0.89	2	2	0	2400	2400	0
8/7/2024 21:57	64902	MILL_T2	0	0	0	0	0	0	-0.35	-0.35	1	1	0	900	900	0
8/7/2024 21:57	45502	DERR_T2	0	0	0	0	0	0	-0.59	-0.58	0	0	0	0	0	0
8/7/2024 21:57	63304	GREE_T1	1	110	109	0.1	0.13	0.03	0	0	0	0	0	0	0	0
8/7/2024 21:57	51901	COPA_T1	0	0	0	0	0	0	-1.27	-1.27	1	1	0	1200	1200	0
8/7/2024 21:57	48602	POCA_T1	0	0	0	0	0	0	0.93	0.87	0	0	0	0	0	0
8/7/2024 21:57	65302	NBRI_T2	0	0	0	0	0	0	0.12	-0.72	0	1	1	0	600	600
8/7/2024 21:58	51902	COPA_T1	0	0	0	0	0	0	-0.38	-0.45	1	1	0	1200	1200	0
8/7/2024 21:58	67503	WEWI_T2	1	1	0	7.5	7.7	0.2	0	0	0	0	0	0	0	0
8/7/2024 21:58	63304	GREE_T1	1	110	109	0.1	0.13	0.03	-1.54	-1.56	0	0	0	0	0	0
8/7/2024 21:58	29402	BELT_T1	1	15	14	7	7.4	0.4	0	0	0	0	0	0	0	0
8/7/2024 21:58	63305	GREE_T1	15	9	-6	0.45	0.26	-0.19	0	0	0	0	0	0	0	0
8/7/2024 21:58	51402	LYKE_T1	0	0	0	0	0	0	-1.49	-1.5	1	1	0	600	600	0
8/7/2024 21:58	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 21:58	64101	REFR_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
8/7/2024 21:58	66302	MCGO_T2	0	0	0	0	0	0	-1.39	-1.39	1	1	0	600	600	0
8/7/2024 21:58	67502	WEWI_T2	6	15	9	0.2	0.19	-0.01	-0.98	-0.09	1	0	-1	900	0	-900
8/7/2024 21:58	63804	HEMP_T1	1	1	0	5.7	5.2	-0.5	0.44	0.46	0	0	0	0	0	0
8/7/2024 21:58	51904	COPA_T1	5	5	0	0.56	0.46	-0.1	-0.88	-0.9	2	2	0	1200	1200	0
8/7/2024 21:58	66301	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/7/2024 21:58	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 21:58	51906	COPA_T1	0	0	0	0	0	0	-0.84	-0.85	2	2	0	1500	1500	0
8/7/2024 21:58	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/7/2024 21:58	24001	WIBA_T1	0	0	0	0	0	0	1.4	1.35	0	0	0	0	0	0
8/7/2024 21:58	51901	COPA_T1	0	0	0	0	0	0	-1.27	-1.27	1	1	0	1200	1200	0
8/7/2024 21:58	67605	WARW_T1	3	3	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
8/7/2024 21:58	66303	MCGO_T2	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
8/7/2024 21:59	24204	PROV_T3	5	18	13	1.2	0.43	-0.77	0	0	0	0	0	0	0	0
8/7/2024 21:59	40502	CRES_T2	10	10	0	0.29	0.34	0.05	-0.15	-0.11	0	0	0	0	0	0
8/7/2024 21:59	65302	NBRI_T2	0	0	0	0	0	0	0.12	-0.72	0	1	1	0	600	600
8/7/2024 21:59	48602	POCA_T1	0	0	0	0	0	0	0.93	0.87	0	0	0	0	0	0
8/7/2024 21:59	46102	MACI_T1	0	0	0	0	0	0	0.86	0.85	0	0	0	0	0	0
8/7/2024 21:59	46203	DANV_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
8/7/2024 21:59	51904	COPA_T1	5	5	0	0.56	0.46	-0.1	-1.77	-1.81	4	4	0	2400	2400	0
8/7/2024 21:59	27604	PIRI_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
8/7/2024 21:59	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 21:59	24201	PROV_T3	35	77	42	0.31	0.23	-0.08	-1.24	-1.27	1	1	0	1200	1200	0
8/7/2024 21:59	29402	BELT_T1	1	15	14	7	7.4	0.4	0	0	0	0	0	0	0	0
8/7/2024 21:59	63401	HONY_T1	0	0	0	0	0	0	0.19	0.04	1	1	0	600	600	0
8/7/2024 21:59	51906	COPA_T1	0	0	0	0	0	0	1.68	1.47	4	4	0	3000	3000	0
8/7/2024 21:59	65604	QVIL_T2	1	1	0	3.2	2.4	-0.8	0.59	0.53	0	0	0	0	0	0
8/7/2024 21:59	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/7/2024 21:59	24205	PROV_T3	17	42	25	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
8/7/2024 21:59	44201	POIN_T1	0	0	0	0	0	0	-1.46	-1.45	2	2	0	2100	2100	0
8/7/2024 22:00	66505	SMAN_T2	0	0	0	0	0	0	0.4	0.29	2	2	0	1500	1500	0
8/7/2024 22:00	66302	MCGO_T2	0	0	0	0	0	0	-1.39	-1.39	1	1	0	600	600	0
8/7/2024 22:00	66303	MCGO_T2	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
8/7/2024 22:00	66504	SMAN_T2	0	0	0	0	0	0	-0.05	-1.34	0	1	1	0	1200	1200
8/7/2024 22:00	46301	ROHR_T1	179	201	22	0.38	0.41	0.03	0.4	0.58	0	0	0	0	0	0
8/7/2024 22:00	40602	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/7/2024 22:00	46302	ROHR_T1	34	55	21	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
8/7/2024 22:00	40601	PIGR_T1	45	0	-45	0.16	0	-0.16	0	0	0	0	0	0	0	0
8/7/2024 22:00	66301	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/7/2024 22:01	51702	OBER_T1	2	2	0	3.25	2.55	-0.7	-0.52	-0.53	1	1	0	600	600	0
8/7/2024 22:01	66303	MCGO_T2	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
8/7/2024 22:01	45501	DERR_T2	0	0	0	0	0	0	-0.09	-0.2	2	2	0	1800	1800	0
8/7/2024 22:01	44201	POIN_T1	0	0	0	0	0	0	-1.46	-1.45	2	2	0	2100	2100	0
8/7/2024 22:01	58202	NEWV_T1	0	0	0	0	0	0	0.45	0.26	0	0	0	0	0	0
8/7/2024 22:01	48902	FOSP_T2	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
8/7/2024 22:01	51906	COPA_T1	0	0	0	0	0	0	-0.84	-0.85	2	2	0	1500	1500	0
8/7/2024 22:01	54206	PENN_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
8/7/2024 22:01	51904	COPA_T1	5	5	0	0.34	0.54	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/7/2024 22:01	63401	HONY_T1	0	0	0	0	0	0	0.19	0.04	1	1	0	600	600	0
8/7/2024 22:01	66301	MCGO_T2	0	1	1	0	0.1	0.1	-1.54	-1.53	0	0	0	0	0	0
8/7/2024 22:01	65205	PRIN_T1	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
8/7/2024 22:01	65001	NEFF_T2	0	0	0	0	0	0	-0.63	-0.68	1	1	0	1200	1200	0
8/7/2024 22:01	48602	POCA_T1	0	0	0	0	0	0	0.93	0.87	0	0	0	0	0	0
8/7/2024 22:01	47101	MARL_T1	0	0	0	0	0	0	-0.72	-0.12	0	0	0	0	0	0
8/7/2024 22:01	64305	LINC_T1	0	0	0	0	0	0	-0.32	-0.4	0	0	0	0	0	0
8/7/2024 22:02	65003	NEFF_T2	0	0	0	0	0	0	-0.65	-1.89	1	2	1	600	1800	1200
8/7/2024 22:02	29402	BELT_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
8/7/2024 22:02	47401	PENS_T1	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
8/7/2024 22:02	14601	SWHI_T1	0	0	0	0	0	0	-1.01	-1.07	0	0	0	0	0	0
8/7/2024 22:02	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/7/2024 22:02	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.3	0	0	0	0	0	0
8/7/2024 22:02	15402	WALL_T1	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
8/7/2024 22:02	23502	GEOR_T1	0	0	0	0	0	0	-1.27	-1.15	1	1	0	1200	1200	0
8/7/2024 22:02	58401	MORO_T1	0	0	0	0	0	0	-0.75	-0.77	1	1	0	600	600	0
8/7/2024 22:02	57303	MOAL_T2	1	1	0	7.8	8.1	0.3	0	0	0	0	0	0	0	0
8/7/2024 22:02	63501	HEID_TBK1-2	48	49	1	1.25	1.41	0.16	0.66	0.66	0	0	0	0	0	0
8/7/2024 22:02	40101	HUNT_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
8/7/2024 22:02	46203	DANV_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
8/7/2024 22:02	51904	COPA_T1	5	5	0	0.34	0.54	0.2	0	0	0	0	0	0	0	0
8/7/2024 22:02	63401	HONY_T1	0	0	0	0	0	0	0.19	0.04	1	1	0	600	600	0
8/7/2024 22:02	20401	ASHF_T2	3	2	-1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
8/7/2024 22:02	51905	COPA_T1	0	0	0	0	0	0	1.01	0.78	0	0	0	0	0	0
8/7/2024 22:02	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 22:02	57306	MOAL_T2	0	0	0	0	0	0	-2.97	-2.96	1	1	0	1200	1200	0
8/7/2024 22:02	20402	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/7/2024 22:02	42701	AUGU_T1	1	0	-1	0.6	0	-0.6	0	0	2	2	0	1800	1800	0
8/7/2024 22:02	65302	NBRI_T2	0	0	0	0	0	0	0.12	-0.72	0	1	1	0	600	600
8/7/2024 22:02	64101	REFR_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
8/7/2024 22:03	60404	DILL_T2	0	0	0	0	0	0	0.15	-0.03	1	1	0	1200	1200	0
8/7/2024 22:03	50202	HARR_T3	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/7/2024 22:03	50107	HARR_T3	1	1	0	6.5	6.9	0.4	0	0	0	0	0	0	0	0
8/7/2024 22:03	50103	HARR_T3	2	2	0	0.4	0.1	-0.3	-0.34	-0.36	1	1	0	1200	1200	0
8/7/2024 22:03	63804	HEMP_T1	1	1	0	5.6	5.2	-0.4	0	0	0	0	0	0	0	0
8/7/2024 22:03	51904	COPA_T1	5	5	0	0.34	0.54	0.2	-0.88	-0.9	2	2	0	1200	1200	0
8/7/2024 22:03	63802	HEMP_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
8/7/2024 22:03	43802	SWIL_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
8/7/2024 22:03	43801	SWIL_T1	2	2	0	3.05	3.05	0	0	0	0	0	0	0	0	0
8/7/2024 22:03	45502	DERR_T2	0	0	0	0	0	0	-0.59	-0.58	0	0	0	0	0	0
8/7/2024 22:03	48602	POCA_T1	0	0	0	0	0	0	0.93	0.87	0	0	0	0	0	0
8/7/2024 22:03	50105	HARR_T3	7	7	0	5.73	5.88	0.15	0	0	0	0	0	0	0	0
8/7/2024 22:03	47202	FAXO_T2	0	0	0	0	0	0	-2.06	-2.21	0	0	0	0	0	0
8/7/2024 22:04	63305	GREE_T1	9	7	-2	0.26	0.14	-0.12	-1.97	-1.02	1	0	-1	900	0	-900
8/7/2024 22:04	63803	HEMP_T1	0	0	0	0	0	0	1.08	0.96	0	0	0	0	0	0
8/7/2024 22:04	63804	HEMP_T1	1	1	0	5.6	5.2	-0.4	0	0	0	0	0	0	0	0
8/7/2024 22:04	67805	WLAN_T1	40	387	347	0.17	0.22	0.05	0	0	0	0	0	0	0	0
8/7/2024 22:04	48602	POCA_T1	0	0	0	0	0	0	0.93	0.87	0	0	0	0	0	0
8/7/2024 22:04	44302	BEAV_T2	1	0	-1	5.5	0	-5.5	0	0	0	0	0	0	0	0
8/7/2024 22:04	63304	GREE_T1	0	109	109	0	0.13	0.13	0	0	0	0	0	0	0	0
8/7/2024 22:04	67803	WLAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/7/2024 22:04	63801	HEMP_T1	0	0	0	0	0	0	-0.51	-0.42	1	1	0	900	900	0
8/7/2024 22:04	14802	TREI_T2	0	0	0	0	0	0	0.53	0.48	0	0	0	0	0	0
8/7/2024 22:04	51702	OBER_T1	2	2	0	3.25	2.55	-0.7	-0.52	-0.53	1	1	0	600	600	0
8/7/2024 22:04	67804	WLAN_T1	0	7	7	0	0.11	0.11	-0.82	-0.87	0	0	0	0	0	0
8/7/2024 22:04	44301	BEAV_T2	0	0	0	0	0	0	0.07	-0.3	1	1	0	600	600	0
8/7/2024 22:05	57501	LAWN_T3	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
8/7/2024 22:05	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/7/2024 22:05	51004	NHAR_T1	2	1	-1	2.95	6.1	3.15	0	0	0	0	0	0	0	0
8/7/2024 22:05	55002	NEWP_T1	6	6	0	0.83	0.77	-0.06	0	0	0	0	0	0	0	0
8/7/2024 22:05	40802	EXCH_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
8/7/2024 22:05	16201	POHA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 22:05	55001	NEWP_T1	4	0	-4	0.1	0	-0.1	-0.66	-0.75	1	1	0	600	600	0
8/7/2024 22:05	51006	NHAR_T1	0	0	0	0	0	0	-1.43	-1.42	2	2	0	2100	2100	0
8/7/2024 22:05	64101	REFR_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
8/7/2024 22:05	51002	NHAR_T1	1	1	0	1.7	1.3	-0.4	0	0	0	0	0	0	0	0
8/7/2024 22:05	54206	PENN_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
8/7/2024 22:06	51904	COPA_T1	5	5	0	0.34	0.54	0.2	-0.88	-0.9	2	2	0	1200	1200	0
8/7/2024 22:06	51702	OBER_T1	2	2	0	3.25	2.55	-0.7	0	0	0	0	0	0	0	0
8/7/2024 22:06	40902	JESH_T1	0	0	0	0	0	0	-0.75	-0.59	0	0	0	0	0	0
8/7/2024 22:06	66702	STRA_T1	0	0	0	0	0	0	-0.32	-0.25	2	2	0	1500	1500	0
8/7/2024 22:06	44201	POIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 22:06	66703	STRA_T1	28	16	-12	0.26	0.3	0.04	0	0	0	0	0	0	0	0
8/7/2024 22:06	51704	OBER_T1	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
8/7/2024 22:06	46101	MACI_T2	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
8/7/2024 22:06	22101	EDEL_T2	0	0	0	0	0	0	0.74	0.74	1	1	0	1200	1200	0
8/7/2024 22:06	40901	JESH_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/7/2024 22:06	65001	NEFF_T2	0	0	0	0	0	0	-0.68	-0.7	1	1	0	1200	1200	0
8/7/2024 22:06	61502	EPET_T1	0	0	0	0	0	0	-0.64	-0.59	0	0	0	0	0	0
8/7/2024 22:07	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 22:07	51906	COPA_T1	0	0	0	0	0	0	-0.85	-0.88	2	2	0	1500	1500	0
8/7/2024 22:07	51904	COPA_T1	5	5	0	0.34	0.54	0.2	0	0	0	0	0	0	0	0
8/7/2024 22:07	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 22:07	43202	MVIL_T2	139	157	18	0.62	0.68	0.06	-0.63	-0.64	0	0	0	0	0	0
8/7/2024 22:07	63804	HEMP_T1	1	1	0	5.6	5.2	-0.4	0.46	-0.5	0	0	0	0	0	0
8/7/2024 22:07	44302	BEAV_T2	1	0	-1	5.5	0	-5.5	0	0	0	0	0	0	0	0
8/7/2024 22:07	64101	REFR_T1	0	0	0	0	0	0	0.2	0.14	0	0	0	0	0	0
8/7/2024 22:07	65803	RTWN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/7/2024 22:07	63305	GREE_T1	9	7	-2	0.26	0.14	-0.12	0	0	0	0	0	0	0	0
8/7/2024 22:07	63304	GREE_T1	0	109	109	0	0.13	0.13	-1.56	-1.58	0	0	0	0	0	0
8/7/2024 22:07	43201	MVIL_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/7/2024 22:07	45501	DERR_T2	0	0	0	0	0	0	-0.4	-0.38	4	4	0	3600	3600	0
8/7/2024 22:07	65802	RTWN_T2	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
8/7/2024 22:07	57501	LAWN_T3	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
8/7/2024 22:08	24102	EHAZ_T1	1	1	0	1.3	1.8	0.5	0	0	0	0	0	0	0	0
8/7/2024 22:08	67503	WEWI_T2	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
8/7/2024 22:08	24105	EHAZ_T1	4	4	0	6.28	5.9	-0.38	0	0	0	0	0	0	0	0
8/7/2024 22:08	61002	DONV_T2	0	0	0	0	0	0	-0.69	-0.69	2	2	0	1200	1200	0
8/7/2024 22:08	46101	MACI_T2	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
8/7/2024 22:08	24104	EHAZ_T1	0	0	0	0	0	0	-0.75	-0.78	1	1	0	1200	1200	0
8/7/2024 22:08	67502	WEWI_T2	15	0	-15	0.19	0	-0.19	-0.09	-0.07	0	0	0	0	0	0
8/7/2024 22:08	64101	REFR_T1	0	0	0	0	0	0	0.2	0.14	0	0	0	0	0	0
8/7/2024 22:08	64101	REFR_T1	0	0	0	0	0	0	0.2	0.14	0	0	0	0	0	0
8/7/2024 22:08	64101	REFR_T1	0	0	0	0	0	0	0.2	0.14	0	0	0	0	0	0
8/7/2024 22:08	64101	REFR_T1	0	0	0	0	0	0	0.2	0.14	0	0	0	0	0	0
8/7/2024 22:08	63804	HEMP_T1	1	1	0	5.6	5.2	-0.4	-0.46	-0.5	0	0	0	0	0	0
8/7/2024 22:09	64101	REFR_T1	0	0	0	0	0	0	0.2	0.14	0	0	0	0	0	0
8/7/2024 22:09	46901	MNTG_T2	0	0	0	0	0	0	0.43	0.54	1	1	0	1200	1200	0
8/7/2024 22:09	66505	SMAN_T2	0	0	0	0	0	0	0.29	0.17	2	2	0	1500	1500	0
8/7/2024 22:09	40101	HUNT_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
8/7/2024 22:09	24105	EHAZ_T1	4	4	0	6.28	5.9	-0.38	0	0	0	0	0	0	0	0
8/7/2024 22:09	24102	EHAZ_T1	1	1	0	1.3	1.8	0.5	0	0	0	0	0	0	0	0
8/7/2024 22:09	44801	EDAN_T2	212	219	7	0.42	0.48	0.06	-1.57	-1.54	0	0	0	0	0	0
8/7/2024 22:09	24104	EHAZ_T1	0	0	0	0	0	0	-0.75	-0.78	1	1	0	1200	1200	0
8/7/2024 22:10	24105	EHAZ_T1	4	4	0	6.28	5.9	-0.38	0	0	0	0	0	0	0	0
8/7/2024 22:10	63804	HEMP_T1	1	1	0	5.6	5.2	-0.4	-0.46	-0.5	0	0	0	0	0	0
8/7/2024 22:10	24102	EHAZ_T1	1	1	0	1.3	1.8	0.5	0.17	0.18	0	0	0	0	0	0
8/7/2024 22:10	43201	MVIL_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/7/2024 22:10	43202	MVIL_T2	139	157	18	0.62	0.68	0.06	-0.63	-0.64	0	0	0	0	0	0
8/7/2024 22:10	66502	SMAN_T2	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
8/7/2024 22:11	66301	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/7/2024 22:11	66303	MCGO_T2	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
8/7/2024 22:11	51702	OBER_T1	2	2	0	3.25	2.55	-0.7	-0.53	-0.51	1	1	0	600	600	0
8/7/2024 22:11	66302	MCGO_T2	0	0	0	0	0	0	-1.39	-0.69	1	0	-1	600	0	-600
8/7/2024 22:12	65604	QVIL_T2	1	1	0	3	2.4	-0.6	0.53	0.5	0	0	0	0	0	0
8/7/2024 22:12	48302	ORWI_T2	2	2	0	0.9	1.1	0.2	0	-0.03	0	0	0	0	0	0
8/7/2024 22:13	44801	EDAN_T2	212	219	7	0.42	0.48	0.06	-1.57	-1.54	0	0	0	0	0	0
8/7/2024 22:16	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 22:17	61505	EPET_T1	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
8/7/2024 22:17	63801	HEMP_T1	0	0	0	0	0	0	-0.42	-0.42	1	1	0	900	900	0
8/7/2024 22:17	63804	HEMP_T1	1	1	0	5.2	5.5	0.3	0	0	0	0	0	0	0	0
8/7/2024 22:17	23002	SAJO_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
8/7/2024 22:17	23001	SAJO_T1	1	1	0	0.3	0.4	0.1	0.19	0.19	0	0	0	0	0	0
8/7/2024 22:19	66703	STRA_T1	16	10	-6	0.29	0.33	0.04	-0.03	0.05	0	0	0	0	0	0
8/7/2024 22:27	62102	ELAN_T1	0	0	0	0	0	0	1.02	0.98	0	0	0	0	0	0
8/7/2024 22:31	51702	OBER_T1	2	2	0	2.45	2.5	0.05	-0.51	-0.55	1	1	0	600	600	0
8/7/2024 22:31	65302	NBRI_T2	0	0	0	0	0	0	-0.65	-0.47	1	1	0	600	600	0
8/7/2024 22:57	51702	OBER_T1	2	2	0	2.5	2.4	-0.1	-0.55	-0.57	1	1	0	600	600	0
8/8/2024 0:24	50103	HARR_T3	0	0	0	0	0	0	-0.52	-0.54	1	1	0	1200	1200	0
8/8/2024 0:24	50107	HARR_T3	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
8/8/2024 0:24	50105	HARR_T3	6	7	1	6.2	6.17	-0.03	0	0	0	0	0	0	0	0
8/8/2024 8:14	53901	HALI_T2	1	1	0	0.1	1.3	1.2	0	0	0	0	0	0	0	0
8/8/2024 8:14	53902	HALI_T2	1	1	0	4.4	5.4	1	0	0	0	0	0	0	0	0
8/8/2024 8:14	53903	HALI_T2	2	2	0	0.15	1.4	1.25	-0.07	-0.06	0	0	0	0	0	0
8/8/2024 8:16	46102	MACI_T1	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
8/8/2024 8:18	53903	HALI_T2	2	2	0	1.3	1.4	0.1	-0.07	-0.06	0	0	0	0	0	0
8/8/2024 8:18	53901	HALI_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
8/8/2024 8:18	53902	HALI_T2	1	1	0	5.2	5.7	0.5	0	0	0	0	0	0	0	0
8/8/2024 8:22	65603	QVIL_T2	0	0	0	0	0	0	-0.37	-0.42	0	0	0	0	0	0
8/8/2024 8:42	29402	BELT_T1	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0	0
8/8/2024 8:42	29401	BELT_T1	89	83	-6	0.29	0.27	-0.02	0	0	1	1	0	900	900	0
8/8/2024 8:46	22905	HARW_T1	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
8/8/2024 8:54	67803	WLAN_T1	0	0	0	0	0	0	-1.45	-1.44	0	0	0	0	0	0
8/8/2024 8:56	51306	WIND_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
8/8/2024 9:10	66505	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/8/2024 9:10	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 9:18	12006	HATF_T1	0	0	0	0	0	0	0.08	0.19	2	2	0	2400	2400	0
8/8/2024 9:25	44301	BEAV_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/8/2024 9:25	44302	BEAV_T2	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
8/8/2024 9:30	61701	ELIZ_T1	1	1	0	3.6	4.2	0.6	0	0	0	0	0	0	0	0
8/8/2024 9:30	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 9:36	62104	ELAN_T1	0	0	0	0	0	0	0.8	0.69	2	2	0	1500	1500	0
8/8/2024 9:41	67804	WLAN_T1	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/8/2024 9:41	62104	ELAN_T1	0	0	0	0	0	0	0.69	0.75	2	2	0	1500	1500	0
8/8/2024 9:58	61002	DONV_T2	0	0	0	0	0	0	-0.55	-0.53	2	2	0	1200	1200	0
8/8/2024 10:00	51904	COPA_T1	5	4	-1	0.7	0.48	-0.22	-1.56	-1.56	2	2	0	1200	1200	0
8/8/2024 10:00	61001	DONV_T1	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
8/8/2024 10:00	50107	HARR_T3	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
8/8/2024 10:00	28102	TWLA_T2	4	9	5	0.2	0.19	-0.01	0.21	0.22	0	0	0	0	0	0
8/8/2024 10:00	50105	HARR_T3	6	6	0	5.97	5.83	-0.14	0	0	0	0	0	0	0	0
8/8/2024 10:00	50201	HARR_T3	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/8/2024 10:00	50103	HARR_T3	2	2	0	0.2	0.5	0.3	-0.58	-0.58	1	1	0	1200	1200	0
8/8/2024 10:00	22701	MINO_T1	0	0	0	0	0	0	-0.81	-0.77	1	1	0	600	600	0
8/8/2024 10:00	67503	WEWI_T2	1	1	0	6.8	6.7	-0.1	0.19	0.17	0	0	0	0	0	0
8/8/2024 10:00	40505	CRES_T1	3	3	0	3.37	4	0.63	0.54	0.54	0	0	0	0	0	0
8/8/2024 10:00	12006	HATF_T1	0	0	0	0	0	0	0.14	0.11	2	2	0	2400	2400	0
8/8/2024 10:02	55508	HERS_T2	2	2	0	1.35	1.3	-0.05	-2.45	-2.46	1	1	0	1200	1200	0
8/8/2024 10:11	46206	DANV_T2	6	4	-2	0.82	1.7	0.88	2.54	1.55	1	2	1	1200	2100	900
8/8/2024 10:11	53601	DALM_T2	1	1	0	1.1	1.1	0	-0.51	-0.48	1	1	0	900	900	0
8/8/2024 10:13	64904	MILL_T1	0	0	0	0	0	0	-0.15	-0.08	0	0	0	0	0	0
8/8/2024 10:14	61801	EELI_T2	0	0	0	0	0	0	-0.37	-0.37	1	1	0	600	600	0
8/8/2024 10:15	63304	GREE_T1	0	0	0	0	0	0	-1.46	-1.38	0	0	0	0	0	0
8/8/2024 10:16	29401	BELT_T1	35	25	-10	0.21	0.15	-0.06	0	0	2	2	0	1800	1800	0
8/8/2024 10:16	29402	BELT_T1	1	1	0	8	8.1	0.1	0	0	0	0	0	0	0	0
8/8/2024 10:16	55508	HERS_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
8/8/2024 10:17	63304	GREE_T1	0	0	0	0	0	0	-1.46	-1.38	0	0	0	0	0	0
8/8/2024 10:18	64305	LINC_T1	0	0	0	0	0	0	0.35	0.15	0	0	0	0	0	0
8/8/2024 10:21	13905	SEID_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
8/8/2024 10:25	64603	LEOL_T1	0	0	0	0	0	0	0.17	0.21	1	1	0	600	600	0
8/8/2024 10:26	58401	MORO_T1	0	0	0	0	0	0	-0.79	-0.77	1	1	0	600	600	0
8/8/2024 10:27	10705	CATA_T2	0	0	0	0	0	0	0.33	0.37	0	0	0	0	0	0
8/8/2024 10:27	58401	MORO_T1	0	0	0	0	0	0	-0.79	-0.77	1	1	0	600	600	0
8/8/2024 10:30	66201	SISP_T2	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
8/8/2024 10:31	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 10:32	15204	SFAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 10:32	67505	WEWI_T1	0	0	0	0	0	0	0.28	0.25	1	1	0	900	900	0
8/8/2024 10:37	65207	PRIN_T4	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/8/2024 10:39	64902	MILL_T2	0	0	0	0	0	0	-0.29	-0.34	1	1	0	900	900	0
8/8/2024 10:39	67804	WLAN_T1	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
8/8/2024 10:39	67803	WLAN_T1	0	0	0	0	0	0	-1.39	-1.38	0	0	0	0	0	0
8/8/2024 10:43	64902	MILL_T2	0	0	0	0	0	0	-0.29	-0.34	1	1	0	900	900	0
8/8/2024 10:44	67804	WLAN_T1	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
8/8/2024 10:50	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/8/2024 10:53	23001	SAJO_T1	0	0	0	0	0	0	0.15	0.21	0	0	0	0	0	0
8/8/2024 10:55	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 11:05	20403	ASHF_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
8/8/2024 11:05	20402	ASHF_T2	1	4	3	0.1	2.38	2.28	0	0	0	0	0	0	0	0
8/8/2024 11:05	20401	ASHF_T2	5	8	3	0.34	0.35	0.01	0	0	0	0	0	0	0	0
8/8/2024 11:05	65001	NEFF_T2	0	0	0	0	0	0	-0.08	-0.2	1	1	0	1200	1200	0
8/8/2024 11:09	44301	BEAV_T2	1	3	2	2	2.2	0.2	0	0	0	0	0	0	0	0
8/8/2024 11:15	46203	DANV_T2	0	0	0	0	0	0	-1.76	-1.75	0	0	0	0	0	0
8/8/2024 11:15	46206	DANV_T2	2	2	0	0.85	1.3	0.45	0	0	0	0	0	0	0	0
8/8/2024 11:19	45702	LIND_T2	1	1	0	1.2	1.9	0.7	-1.57	-1.65	0	0	0	0	0	0
8/8/2024 11:20	12807	MICK_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/8/2024 11:20	12802	MICK_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
8/8/2024 11:21	12802	MICK_T1	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
8/8/2024 11:21	12807	MICK_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/8/2024 11:24	46301	ROHR_T1	15	15	0	0.11	0.11	0	0.27	0.26	0	0	0	0	0	0
8/8/2024 11:24	46302	ROHR_T1	4	5	1	2.25	2	-0.25	0	0	0	0	0	0	0	0
8/8/2024 11:33	20401	ASHF_T2	7	5	-2	0.47	0.44	-0.03	0	0	0	0	0	0	0	0
8/8/2024 11:33	20402	ASHF_T2	3	2	-1	3.13	0.15	-2.98	0	0	0	0	0	0	0	0
8/8/2024 11:33	20403	ASHF_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
8/8/2024 11:36	20401	ASHF_T2	7	5	-2	0.47	0.44	-0.03	0	0	0	0	0	0	0	0
8/8/2024 11:36	20403	ASHF_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
8/8/2024 11:36	20402	ASHF_T2	3	2	-1	3.13	0.15	-2.98	0	0	0	0	0	0	0	0
8/8/2024 11:40	23001	SAJO_T1	0	0	0	0	0	0	0.18	0.23	0	0	0	0	0	0
8/8/2024 11:44	63501	HEID_TBK1-2	48	50	2	0.97	0.92	-0.05	0.38	0.36	1	1	0	900	900	0
8/8/2024 11:45	45802	HEGI_T2	2	1	-1	0.1	0.2	0.1	0.29	0.33	2	2	0	1200	1200	0
8/8/2024 11:46	45802	HEGI_T2	2	1	-1	0.1	0.2	0.1	0.29	0.33	2	2	0	1200	1200	0
8/8/2024 11:52	64902	MILL_T2	0	0	0	0	0	0	-0.88	-0.91	1	1	0	900	900	0
8/8/2024 11:58	45501	DERR_T2	0	0	0	0	0	0	0.64	0.66	2	2	0	1800	1800	0
8/8/2024 11:59	53501	EVIL_T2	2	2	0	0.25	0.35	0.1	-0.01	-0.01	3	3	0	2100	2100	0
8/8/2024 12:00	45501	DERR_T2	1	0	-1	7.1	0	-7.1	0.64	0.66	2	2	0	1800	1800	0
8/8/2024 12:00	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 12:00	53501	EVIL_T2	1	2	1	0.1	0.35	0.25	-0.01	-0.01	6	6	0	4200	4200	0
8/8/2024 12:00	58202	NEWV_T1	8	8	0	0.26	0.98	0.72	-0.12	-0.13	0	0	0	0	0	0
8/8/2024 12:01	58202	NEWV_T1	8	8	0	0.26	0.98	0.72	-0.12	-0.13	0	0	0	0	0	0
8/8/2024 12:01	44801	EDAN_T2	27	23	-4	0.22	0.2	-0.02	-1.46	-1.45	0	0	0	0	0	0
8/8/2024 12:01	53501	EVIL_T2	1	2	1	0.1	0.35	0.25	-0.01	-0.01	3	3	0	2100	2100	0
8/8/2024 12:02	53501	EVIL_T2	1	2	1	0.1	0.35	0.25	-0.01	-0.01	3	3	0	2100	2100	0
8/8/2024 12:06	22701	MINO_T1	0	0	0	0	0	0	-0.77	-0.76	1	1	0	600	600	0
8/8/2024 12:06	43202	MVIL_T2	17	13	-4	0.17	0.16	-0.01	-0.96	-0.96	0	0	0	0	0	0
8/8/2024 12:08	43202	MVIL_T2	17	13	-4	0.17	0.16	-0.01	-0.48	-0.47	0	0	0	0	0	0
8/8/2024 12:11	55101	WERT_T1	0	0	0	0	0	0	-1.01	-1.06	3	3	0	2400	2400	0
8/8/2024 12:12	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 12:12	66703	STRA_T1	0	0	0	0	0	0	0.39	0.47	0	0	0	0	0	0
8/8/2024 12:23	65205	PRIN_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/8/2024 12:26	60801	BUCK_T1	0	0	0	0	0	0	-0.67	-0.67	1	1	0	600	600	0
8/8/2024 12:34	46102	MACJ_T1	0	0	0	0	0	0	0.86	0.86	0	0	0	0	0	0
8/8/2024 12:37	66302	MCGO_T2	0	0	0	0	0	0	-1.42	-1.44	1	1	0	600	600	0
8/8/2024 12:42	42201	SHEN_T2	0	0	0	0	0	0	0.06	0.06	1	1	0	600	600	0
8/8/2024 12:47	63403	HONY_T2	0	0	0	0	0	0	-0.2	-0.17	1	1	0	600	600	0
8/8/2024 12:48	23202	HIRU_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
8/8/2024 12:48	28102	TWLA_T2	3	3	0	0.2	0.15	-0.05	0.21	0.23	0	0	0	0	0	0
8/8/2024 12:49	25503	MADI_T1	17	19	2	0.15	0.14	-0.01	-0.81	-0.81	0	0	0	0	0	0
8/8/2024 12:56	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 12:58	67605	WARW_T1	0	0	0	0	0	0	-0.83	-0.9	0	0	0	0	0	0
8/8/2024 12:59	67605	WARW_T1	0	0	0	0	0	0	-0.83	-0.9	0	0	0	0	0	0
8/8/2024 13:05	40101	HUNT_T2	1	3	2	0.8	0	-0.8	-0.28	-0.26	0	0	0	0	0	0
8/8/2024 13:10	44301	BEAV_T2	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
8/8/2024 13:11	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 13:12	45502	DERR_T2	0	0	0	0	0	0	0.22	-0.15	0	0	0	0	0	0
8/8/2024 13:14	44801	EDAN_T2	24	14	-10	0.39	0.15	-0.24	-1.43	-1.42	0	0	0	0	0	0
8/8/2024 13:16	44801	EDAN_T2	10	11	1	0.65	0.13	-0.52	-1.43	-1.42	0	0	0	0	0	0
8/8/2024 13:20	41902	REED_T1	0	0	0	0	0	0	0.46	0.42	1	1	0	900	900	0
8/8/2024 13:20	13301	ORVI_T1	0	0	0	0	0	0	-0.31	0.63	0	0	0	0	0	0
8/8/2024 13:25	41902	REED_T1	0	0	0	0	0	0	0.83	0.93	2	2	0	1800	1800	0
8/8/2024 13:31	53501	EVIL_T2	1	1	0	0.7	0.7	0	-0.01	-0.01	8	8	0	4600	4600	0
8/8/2024 13:31	53502	EVIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/8/2024 13:45	63501	HEID_TBK1-2	47	48	1	1.22	1.19	-0.03	0.51	0.46	1	1	0	900	900	0
8/8/2024 13:46	63501	HEID_TBK1-2	47	48	1	1.22	1.19	-0.03	0.51	0.46	1	1	0	900	900	0
8/8/2024 13:50	17002	RIRO_T2	0	0	0	0	0	0	0.75	0.73	0	0	0	0	0	0
8/8/2024 13:52	67001	STHI_T2	1	1	0	0.2	0.2	0	0.22	0.26	0	0	0	0	0	0
8/8/2024 13:53	13503	MCMI_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
8/8/2024 13:54	42201	SHEN_T2	0	0	0	0	0	0	0.13	0.09	1	1	0	600	600	0
8/8/2024 14:06	48301	ORWI_T1	2	0	0	3.3	3.7	0.4	0.05	0.02	1	1	0	900	900	0
8/8/2024 14:25	67103	SPRI_T1	0	1	1	0	0	0	0.23	0.19	0	0	0	0	0	0
8/8/2024 14:28	45602	WOOL_T1	0	0	0	0	0	0	1.72	1.76	0	0	0	0	0	0
8/8/2024 14:33	63401	HONY_T1	0	0	0	0	0	0	0.4	0.38	1	1	0	600	600	0
8/8/2024 14:35	59003	MIFF_T1	0	0	0	0	0	0	-0.41	-0.26	0	0	0	0	0	0
8/8/2024 14:35	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 14:35	21206	ECAR_T2	1	1	0	7	7.6	0.6	0.34	0.31	0	0	0	0	0	0
8/8/2024 14:35	59002	MIFF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/8/2024 14:38	67001	STHI_T2	1	1	0	0.2	0.4	0.2	0.28	0.29	0	0	0	0	0	0
8/8/2024 14:38	48302	ORWI_T2	1	1	0	0.4	0.3	-0.1	0.14	0.15	0	0	0	0	0	0
8/8/2024 14:39	52501	PROG_T1	0	0	0	0	0	0	0.3	0.32	1	1	0	300	300	0
8/8/2024 14:40	67803	WLAN_T1	0	0	0	0	0	0	-1.23	-1.25	0	0	0	0	0	0
8/8/2024 14:40	67001	STHI_T2	1	1	0	0.2	0.4	0.2	0.28	0.29	0	0	0	0	0	0
8/8/2024 14:41	67002	STHI_T2	0	0	0	0	0	0	1.01	1.03	0	0	0	0	0	0
8/8/2024 14:41	67001	STHI_T2	1	1	0	0.2	0.4	0.2	0.28	0.29	0	0	0	0	0	0
8/8/2024 14:42	67002	STHI_T2	0	0	0	0	0	0	1.01	1.03	0	0	0	0	0	0
8/8/2024 14:42	67001	STHI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/8/2024 14:44	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
8/8/2024 14:45	57505	LAWN_T3	0	0	0	0	0	0	1	0.95	0	0	0	0	0	0
8/8/2024 14:47	20601	GRWO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/8/2024 14:47	20603	GRWO_T2	0	0	0	0	0	0	-0.54	-0.51	1	1	0	900	900	0
8/8/2024 14:48	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
8/8/2024 14:48	46101	MACJ_T2	0	0	0	0	0	0	-0.42	-0.13	1	1	0	1200	1200	0
8/8/2024 14:49	63401	HONY_T1	0	0	0	0	0	0	0.38	0.39	1	1	0	600	600	0
8/8/2024 14:50	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
8/8/2024 14:51	56501	ROCK_T2	3	3	0	0.33	0.3	-0.03	0.7	0.75	0	0	0	0	0	0
8/8/2024 14:52	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/8/2024 14:52	67002	STHI_T2	0	0	0	0	0	0	1.03	1.04	0	0	0	0	0	0
8/8/2024 14:53	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/8/2024 14:53	67002	STHI_T2	0	0	0	0	0	0	1.03	1.04	0	0	0	0	0	0
8/8/2024 14:53	56501	ROCK_T2	3	3	0	0.33	0.3	-0.03	0.37	0.35	0	0	0	0	0	0
8/8/2024 14:54	67002	STHI_T2	0	0	0	0	0	0	3.1	3.13	0	0	0	0	0	0
8/8/2024 14:54	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/8/2024 14:55	53501	EVIL_T2	2	2	0	0.95	0.9	-0.05	-0.01	-0.01	3	3	0	1400	1400	0
8/8/2024 14:55	62104	ELAN_T1	0	0	0	0	0	0	0.93	0.93	2	2	0	1500	1500	0
8/8/2024 14:56	62104	ELAN_T1	0	0	0	0	0	0	0.93	0.93	2	2	0	1500	1500	0
8/8/2024 14:57	61101	BERK_T5	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
8/8/2024 14:58	61103	BERK_T5	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
8/8/2024 14:59	44801	EDAN_T2	4	13	9	1.43	0.35	-1.08	-1.33	-1.36	0	0	0	0	0	0
8/8/2024 14:59	46206	DANV_T2	2	3	1	1.15	2.3	1.15	0	0	0	0	0	0	0	0
8/8/2024 14:59	61101	BERK_T5	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
8/8/2024 14:59	46203	DANV_T2	0	0	0	0	0	0	-1.63	-1.58	0	0	0	0	0	0
8/8/2024 15:00	44801	EDAN_T2	12	10	-2	0.34	0.34	0	-1.33	-1.36	0	0	0	0	0	0
8/8/2024 15:01	46206	DANV_T2	3	2	-1	1	2.3	1.3	0	0	0	0	0	0	0	0
8/8/2024 15:01	46203	DANV_T2	0	0	0	0	0	0	-1.63	-1.58	0	0	0	0	0	0
8/8/2024 15:04	47401	PENS_T1	0	0	0	0	0	0	1.46	1.7	0	0	0	0	0	0
8/8/2024 15:04	47403	PENS_T1	1	1	0	2.2	0.6	-1.6	0	0	0	0	0	0	0	0
8/8/2024 15:04	47402	PENS_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/8/2024 15:09	47401	PENS_T1	0	0	0	0	0	0	1.7	1.54	0	0	0	0	0	0
8/8/2024 15:09	47403	PENS_T1	1	1	0	2.2	0.6	-1.6	0	0	0	0	0	0	0	0
8/8/2024 15:09	47402	PENS_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/8/2024 15:11	55002	NEWP_T1	4	4	0	0.65	0.55	-0.1	-0.13	-0.13	0	0	0	0	0	0
8/8/2024 15:13	42801	SEU_T1	0	0	0	0	0	0	-1.71	-1.63	1	1	0	1200	1200	0
8/8/2024 15:15	55002	NEWP_T1	3	4	1	0.3	0.55	0.25	-0.13	-0.13	0	0	0	0	0	0
8/8/2024 15:15	63501	HEID_TBK1-2	49	49	0	1.11	0.85	-0.26	0.82	0.65	2	2	0	1800	1800	0
8/8/2024 15:22	43202	MVIL_T2	33	19	-14	0.18	0.17	-0.01	-0.45	-0.47	0	0	0	0	0	0
8/8/2024 15:23	43202	MVIL_T2	33	19	-14	0.18	0.17	-0.01	-0.45	-0.47	0	0	0	0	0	0
8/8/2024 15:23	44203	POIN_T2	0	0	0	0	0	0	0.03	0.04	2	2	0	2100	2100	0
8/8/2024 15:23	44202	POIN_T2	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
8/8/2024 15:28	46206	DANV_T2	1	10	9	2.3	1.45	-0.85	1.58	1.65	2	2	0	2100	2100	0
8/8/2024 15:28	46203	DANV_T2	0	0	0	0	0	0	-1.58	-1.55	0	0	0	0	0	0
8/8/2024 15:30	46203	DANV_T2	0	0	0	0	0	0	-1.58	-1.55	0	0	0	0	0	0
8/8/2024 15:30	46206	DANV_T2	2	10	8	1.6	1.45	-0.15	0	0	0	0	0	0	0	0
8/8/2024 15:35	20403	ASHF_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
8/8/2024 15:35	20401	ASHF_T2	3	7	4	0.2	0.33	0.13	0	0	0	0	0	0	0	0
8/8/2024 15:36	22701	MINO_T1	0	0	0	0	0	0	-0.7	-0.67	1	1	0	600	600	0
8/8/2024 15:36	20401	ASHF_T2	3	7	4	0.2	0.33	0.13	0	0	0	0	0	0	0	0
8/8/2024 15:36	20403	ASHF_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
8/8/2024 15:42	67803	WLAN_T1	0	32	32	0	0.13	0.13	0	0	0	0	0	0	0	0
8/8/2024 15:42	67805	WLAN_T1	0	0	0	0	0	0	-0.75	-0.83	0	0	0	0	0	0
8/8/2024 15:43	67801	WLAN_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
8/8/2024 15:43	67803	WLAN_T1	0	32	32	0	0.13	0.13	0	0	0	0	0	0	0	0
8/8/2024 15:43	16102	BING_T2	0	0	0	0	0	0	0.01	0	1	1	0	1200	1200	0
8/8/2024 15:46	10504	CRAC_T1	0	0	0	0	0	0	1	1.01	0	0	0	0	0	0
8/8/2024 15:46	46801	HEPB_T2	3	3	0	0.63	0.57	-0.06	0.87	0.9	0	0	0	0	0	0
8/8/2024 15:46	46803	HEPB_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/8/2024 15:52	14404	SSLA_T1	0	0	0	0	0	0	0.25	0.31	0	0	0	0	0	0
8/8/2024 15:56	14404	SSLA_T1	0	0	0	0	0	0	0.25	0.31	0	0	0	0	0	0
8/8/2024 16:08	14802	TREI_T2	0	0	0	0	0	0	0.7	0.74	0	0	0	0	0	0
8/8/2024 16:09	65901	SAKR_T2	1	1	0	8.2	8.4	0.2	0	0	0	0	0	0	0	0
8/8/2024 16:09	65904	SAKR_T2	0	0	0	0	0	0	-1.82	-1.79	3	3	0	1500	1500	0
8/8/2024 16:11	61102	BERK_T5	0	0	0	0	0	0	0.23	0.24	1	1	0	300	300	0
8/8/2024 16:16	61102	BERK_T5	0	0	0	0	0	0	0.46	0.49	2	2	0	600	600	0
8/8/2024 16:17	50107	HARR_T3	1	1	0	6.9	6.5	-0.4	0	0	0	0	0	0	0	0
8/8/2024 16:17	50103	HARR_T3	1	2	1	0.1	0.1	0	-0.12	-0.1	1	1	0	1200	1200	0
8/8/2024 16:17	50105	HARR_T3	6	6	0	5.98	5.88	-0.1	0	0	0	0	0	0	0	0
8/8/2024 16:17	50201	HARR_T3	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/8/2024 16:20	46102	MACI_T1	0	0	0	0	0	0	0.88	0.89	0	0	0	0	0	0
8/8/2024 16:20	46101	MACI_T2	0	0	0	0	0	0	-0.08	-0.06	1	1	0	1200	1200	0
8/8/2024 16:24	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 16:32	51402	LYKE_T1	0	3	3	0	0.13	0.13	-1.83	-1.83	2	2	0	1200	1200	0
8/8/2024 16:34	42002	MNVL_T2	1	1	0	2.5	1.5	-1	0	0	0	0	0	0	0	0
8/8/2024 16:34	42001	MNVL_T2	184	141	-43	0.49	0.47	-0.02	0.01	0.04	0	0	0	0	0	0
8/8/2024 16:35	51402	LYKE_T1	0	3	3	0	0.13	0.13	-1.83	-1.83	2	2	0	1200	1200	0
8/8/2024 16:39	55101	WERT_T1	0	0	0	0	0	0	-1.93	-2.02	4	4	0	3300	3300	0
8/8/2024 16:40	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 16:40	14404	SSLA_T1	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
8/8/2024 16:40	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/8/2024 16:42	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 16:46	61506	EPET_T2	0	0	0	0	0	0	-0.25	-0.23	1	1	0	900	900	0
8/8/2024 16:46	61501	EPET_T2	1	1	0	4.7	4.7	0	0	0	0	0	0	0	0	0
8/8/2024 16:46	20802	LOPO_T1	1	0	-1	0.1	0	-0.1	-0.51	-0.49	1	1	0	600	600	0
8/8/2024 16:47	52403	GRPA_T2	5	6	1	0.52	0.77	0.25	-0.25	-0.26	0	0	0	0	0	0
8/8/2024 16:47	52402	GRPA_T2	4	3	-1	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
8/8/2024 16:51	44202	POIN_T2	1	2	1	1.1	0.7	-0.4	-0.46	-0.4	1	1	0	1200	1200	0
8/8/2024 16:52	44202	POIN_T2	1	2	1	1.1	0.7	-0.4	-0.4	-0.37	1	1	0	1200	1200	0
8/8/2024 16:54	16301	ALPA_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
8/8/2024 16:55	58401	MORO_T1	0	0	0	0	0	0	-0.69	-0.63	1	1	0	600	600	0
8/8/2024 16:56	67805	WLAN_T1	0	0	0	0	0	0	-1.05	-0.99	0	0	0	0	0	0
8/8/2024 16:58	67502	WEWI_T2	3	0	-3	0.1	0	-0.1	-0.93	-0.86	1	1	0	900	900	0
8/8/2024 16:58	67503	WEWI_T2	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
8/8/2024 16:59	67503	WEWI_T2	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
8/8/2024 16:59	67502	WEWI_T2	3	0	-3	0.1	0	-0.1	-0.93	-0.86	1	1	0	900	900	0
8/8/2024 17:05	13503	MCMI_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
8/8/2024 17:06	60502	NMAN_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
8/8/2024 17:07	60502	NMAN_T2	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
8/8/2024 17:07	41901	REED_T1	5	8	3	0.16	0.19	0.03	0	0	0	0	0	0	0	0
8/8/2024 17:07	41903	REED_T1	0	0	0	0	0	0	0.26	0.25	1	1	0	1200	1200	0
8/8/2024 17:07	41902	REED_T1	12	21	9	0.37	0.38	0.01	0	0	0	0	0	0	0	0
8/8/2024 17:09	14702	TREX_T2	0	0	0	0	0	0	0.96	0.94	0	0	0	0	0	0
8/8/2024 17:11	57501	LAWN_T3	0	0	0	0	0	0	-0.3	-0.27	0	0	0	0	0	0
8/8/2024 17:11	57506	LAWN_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 17:15	10504	CRAC_T1	0	0	0	0	0	0	1.13	1.07	0	0	0	0	0	0
8/8/2024 17:29	54505	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/8/2024 17:29	54506	ENOL_T2	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
8/8/2024 17:30	21703	SUBU_T1	0	0	0	0	0	0	0.79	0.8	0	0	0	0	0	0
8/8/2024 17:30	21705	SUBU_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
8/8/2024 17:30	21701	SUBU_T1	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
8/8/2024 17:30	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.41	0.39	2	2	0	1800	1800	0
8/8/2024 17:59	16102	BING_T2	0	0	0	0	0	0	0.06	0.08	1	1	0	1200	1200	0
8/8/2024 18:09	44202	POIN_T2	1	1	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
8/8/2024 18:09	23001	SAJO_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
8/8/2024 18:09	44203	POIN_T2	0	0	0	0	0	0	-0.06	0.04	2	2	0	2100	2100	0
8/8/2024 18:11	67801	WLAN_T1	0	0	0	0	0	0	0.11	0.03	0	0	0	0	0	0
8/8/2024 18:12	67803	WLAN_T1	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
8/8/2024 18:12	67801	WLAN_T1	0	0	0	0	0	0	0.11	0.03	0	0	0	0	0	0
8/8/2024 18:13	67802	WLAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 18:15	46206	DANV_T2	4	2	-2	0.85	0.6	-0.25	1.59	1.59	2	2	0	2100	2100	0
8/8/2024 18:15	53901	HALI_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
8/8/2024 18:15	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
8/8/2024 18:15	53903	HALI_T2	2	2	0	1.5	1.6	0.1	0	-0.02	0	0	0	0	0	0
8/8/2024 18:16	46206	DANV_T2	4	2	-2	0.85	0.6	-0.25	1.59	1.59	2	2	0	2100	2100	0
8/8/2024 18:18	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
8/8/2024 18:18	53903	HALI_T2	2	2	0	1.5	1.6	0.1	0	-0.02	0	0	0	0	0	0
8/8/2024 18:18	53901	HALI_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
8/8/2024 18:19	22905	HARW_T1	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
8/8/2024 18:19	22903	HARW_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/8/2024 18:19	53501	EVIL_T2	0	2	2	0	0.25	0.25	-0.01	-0.01	1	1	0	600	600	0
8/8/2024 18:20	60502	NMAN_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
8/8/2024 18:21	53501	EVIL_T2	0	2	2	0	0.25	0.25	-0.01	-0.01	1	1	0	600	600	0
8/8/2024 18:22	53501	EVIL_T2	0	2	2	0	0.25	0.25	-0.01	-0.01	1	1	0	600	600	0
8/8/2024 18:24	47802	MOCA_T2	0	0	0	0	0	0	0.3	0.66	0	0	0	0	0	0
8/8/2024 18:25	23001	SAJO_T1	0	0	0	0	0	0	0.27	0.17	0	0	0	0	0	0
8/8/2024 18:42	59201	THOM_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/8/2024 18:42	59202	THOM_T1	0	11	11	0	0.14	0.14	0	0	0	0	0	0	0	0
8/8/2024 20:16	21206	ECAR_T2	1	1	0	8.2	8.1	-0.1	0.25	0.19	0	0	0	0	0	0
8/8/2024 20:16	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 20:16	55508	HERS_T2	2	2	0	1.1	1.1	0	-2.39	-2.36	1	1	0	1200	1200	0
8/8/2024 20:26	64603	LEOL_T1	0	0	0	0	0	0	-0.19	-0.1	1	1	0	600	600	0
8/8/2024 20:30	66201	SISP_T2	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
8/8/2024 21:12	28102	TWLA_T2	3	5	2	0.3	0.34	0.04	0.25	0.22	0	0	0	0	0	0
8/8/2024 21:22	17002	RIRO_T2	22	29	7	0.14	0.14	0	0.53	0.47	0	0	0	0	0	0
8/8/2024 21:23	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 21:23	45702	LIND_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
8/8/2024 21:34	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 21:35	20802	LOPO_T1	0	0	0	0	0	0	-0.49	-0.48	1	1	0	600	600	0
8/8/2024 21:38	62105	ELAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/8/2024 21:38	62101	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/8/2024 21:38	62104	ELAN_T1	0	0	0	0	0	0	0.59	0.55	2	2	0	1500	1500	0
8/8/2024 21:42	63403	HONY_T2	0	0	0	0	0	0	0.87	0.9	1	1	0	600	600	0
8/8/2024 21:42	60803	BUCK_T1	4	10	6	0.2	0.31	0.11	0	0	0	0	0	0	0	0
8/8/2024 21:42	67002	STHI_T2	0	0	0	0	0	0	0.93	0.89	0	0	0	0	0	0
8/8/2024 21:42	60801	BUCK_T1	7	13	6	0.11	0.18	0.07	-0.75	-0.78	1	1	0	600	600	0
8/8/2024 21:43	42002	MNVL_T2	1	1	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
8/8/2024 21:43	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 21:43	29402	BELT_T1	1	1	0	7.3	7.7	0.4	0	0	0	0	0	0	0	0
8/8/2024 21:43	29401	BELT_T1	1	0	-1	7	0	-7	0	0	1	1	0	900	900	0
8/8/2024 21:43	67802	WLAN_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
8/8/2024 21:43	67805	WLAN_T1	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
8/8/2024 21:43	67002	STHI_T2	0	0	0	0	0	0	0.93	0.89	0	0	0	0	0	0
8/8/2024 21:43	48301	ORWI_T1	2	2	0	5	5.1	0.1	-0.36	-0.35	1	1	0	900	900	0
8/8/2024 21:43	42001	MNVL_T2	199	161	-38	0.52	0.46	-0.06	0	0	0	0	0	0	0	0
8/8/2024 21:44	23203	HIRU_T2	9	0	-9	0.17	0	-0.17	0.18	0.18	0	0	0	0	0	0
8/8/2024 21:44	65207	PRIN_T4	2	8	6	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/8/2024 21:44	13301	ORVI_T1	0	0	0	0	0	0	0.51	0.44	0	0	0	0	0	0
8/8/2024 21:44	23201	HIRU_T2	32	0	-32	0.16	0	-0.16	0	0	0	0	0	0	0	0
8/8/2024 21:44	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 21:44	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 21:44	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/8/2024 21:44	23202	HIRU_T2	7	0	-7	0.16	0	-0.16	0	0	0	0	0	0	0	0
8/8/2024 21:45	65001	NEFF_T2	0	0	0	0	0	0	-0.38	-0.38	1	1	0	1200	1200	0
8/8/2024 21:45	23202	HIRU_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
8/8/2024 21:45	65003	NEFF_T2	21	41	20	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
8/8/2024 21:45	13503	MCMI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
8/8/2024 21:45	64901	MILL_T1	0	8	8	0	0.14	0.14	0	0	0	0	0	0	0	0
8/8/2024 21:45	64904	MILL_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
8/8/2024 21:46	67002	STHI_T2	0	0	0	0	0	0	0.93	0.89	0	0	0	0	0	0
8/8/2024 21:46	65206	PRIN_T4	1	0	-1	2.7	0	-2.7	0	0	0	0	0	0	0	0
8/8/2024 21:46	52403	GRPA_T2	2	3	1	0.85	0.2	-0.65	-0.42	0.21	0	0	0	0	0	0
8/8/2024 21:46	52404	GRPA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/8/2024 21:46	67001	STHI_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
8/8/2024 21:46	52402	GRPA_T2	3	3	0	0.83	0.63	-0.2	0	0	0	0	0	0	0	0
8/8/2024 21:46	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 21:46	65207	PRIN_T4	2	8	6	0.25	0.15	-0.1	0	0	2	2	0	1800	1800	0
8/8/2024 21:47	12007	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 21:47	12006	HATF_T1	0	0	0	0	0	0	0.6	0.59	1	1	0	1200	1200	0
8/8/2024 21:47	14404	SSLA_T1	0	0	0	0	0	0	0.17	0.07	0	0	0	0	0	0
8/8/2024 21:47	67502	WEWI_T2	0	8	8	0	0.21	0.21	-1.02	-1.01	1	1	0	900	900	0
8/8/2024 21:47	46102	MACI_T1	0	0	0	0	0	0	0.87	0.86	0	0	0	0	0	0
8/8/2024 21:47	67503	WEWI_T2	1	1	0	6.9	7.6	0.7	0	0	0	0	0	0	0	0
8/8/2024 21:48	14404	SSLA_T1	0	0	0	0	0	0	0.17	0.07	0	0	0	0	0	0
8/8/2024 21:48	67502	WEWI_T2	0	8	8	0	0.21	0.21	-1.02	-1.01	1	1	0	900	900	0
8/8/2024 21:48	67001	STHI_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
8/8/2024 21:48	63501	HEID_TBK1-2	48	51	3	1.27	1.19	-0.08	0.89	0.78	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/8/2024 21:48	67503	WEWI_T2	1	1	0	6.9	7.6	0.7	0	0	0	0	0	0	0	0
8/8/2024 21:49	14404	SSLA_T1	0	0	0	0	0	0	0.17	0.07	0	0	0	0	0	0
8/8/2024 21:49	67002	STHI_T2	0	0	0	0	0	0	0.93	0.89	0	0	0	0	0	0
8/8/2024 21:49	67505	WEWI_T1	0	0	0	0	0	0	0.35	0.34	1	1	0	900	900	0
8/8/2024 21:50	67805	WLAN_T1	0	69	69	0	0.16	0.16	0	0	0	0	0	0	0	0
8/8/2024 21:50	61506	EPET_T2	0	0	0	0	0	0	0.55	0.5	0	0	0	0	0	0
8/8/2024 21:50	61501	EPET_T2	1	1	0	4.6	4.5	-0.1	0	0	0	0	0	0	0	0
8/8/2024 21:50	63304	GREE_T1	0	0	0	0	0	0	-1.4	-1.46	0	0	0	0	0	0
8/8/2024 21:50	63305	GREE_T1	8	12	4	0.26	0.31	0.05	0	0	0	0	0	0	0	0
8/8/2024 21:50	23203	HIRU_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
8/8/2024 21:50	67801	WLAN_T1	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
8/8/2024 21:50	63301	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/8/2024 21:50	67803	WLAN_T1	0	0	0	0	0	0	-1.1	-1.14	0	0	0	0	0	0
8/8/2024 21:51	29402	BELT_T1	1	1	0	7.5	7.7	0.2	0	0	0	0	0	0	0	0
8/8/2024 21:51	12807	MICK_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/8/2024 21:51	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/8/2024 21:51	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 21:51	12802	MICK_T1	0	0	0	0	0	0	-1.14	-1.16	0	0	0	0	0	0
8/8/2024 21:51	67605	WARW_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/8/2024 21:52	61101	BERK_T5	0	0	0	0	0	0	-0.61	-0.65	0	0	0	0	0	0
8/8/2024 21:52	67805	WLAN_T1	0	69	69	0	0.16	0.16	0	0	0	0	0	0	0	0
8/8/2024 21:52	67803	WLAN_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
8/8/2024 21:53	66302	MCGO_T2	0	0	0	0	0	0	-1.4	-1.33	1	1	0	600	600	0
8/8/2024 21:53	16301	ALPA_T1	1	1	0	0.4	0.5	0.1	-0.12	-0.16	0	0	0	0	0	0
8/8/2024 21:53	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
8/8/2024 21:53	58401	MORO_T1	0	0	0	0	0	0	-0.71	-0.78	1	1	0	600	600	0
8/8/2024 21:53	20402	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/8/2024 21:53	20401	ASHF_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
8/8/2024 21:53	46101	MACI_T2	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
8/8/2024 21:53	14702	TREX_T2	0	0	0	0	0	0	1.14	1.1	0	0	0	0	0	0
8/8/2024 21:53	67605	WARW_T1	1	1	0	0.4	0.5	0.1	-1.81	-1.95	0	0	0	0	0	0
8/8/2024 21:54	47802	MOCA_T2	0	0	0	0	0	0	0.55	0.5	0	0	0	0	0	0
8/8/2024 21:54	22903	HARW_T1	3	2	-1	0.23	0	-0.23	0	0	0	0	0	0	0	0
8/8/2024 21:54	58202	NEWV_T1	8	8	0	0.81	1.33	0.52	-0.28	-0.23	0	0	0	0	0	0
8/8/2024 21:54	58401	MORO_T1	0	0	0	0	0	0	-0.71	-0.78	1	1	0	600	600	0
8/8/2024 21:54	67805	WLAN_T1	0	69	69	0	0.16	0.16	-1.2	-1.18	0	0	0	0	0	0
8/8/2024 21:54	22905	HARW_T1	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
8/8/2024 21:54	13503	MCMI_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
8/8/2024 21:54	45602	WOOL_T1	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
8/8/2024 21:54	55101	WERT_T1	0	0	0	0	0	0	-1.12	-1.06	2	2	0	1500	1500	0
8/8/2024 21:55	60502	NMAN_T2	0	0	0	0	0	0	0.13	0.04	0	0	0	0	0	0
8/8/2024 21:55	65901	SAKR_T2	1	1	0	8.1	8.7	0.6	0	0	0	0	0	0	0	0
8/8/2024 21:55	67804	WLAN_T1	0	0	0	0	0	0	-1.64	-1.63	0	0	0	0	0	0
8/8/2024 21:55	67805	WLAN_T1	0	69	69	0	0.16	0.16	0	0	0	0	0	0	0	0
8/8/2024 21:55	12807	MICK_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/8/2024 21:55	23001	SAJO_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
8/8/2024 21:55	65904	SAKR_T2	0	0	0	0	0	0	-1.65	-1.43	2	2	0	900	900	0
8/8/2024 21:55	64902	MILL_T2	0	0	0	0	0	0	-0.54	-0.67	2	2	0	1800	1800	0
8/8/2024 21:55	12802	MICK_T1	0	0	0	0	0	0	-1.14	-1.16	0	0	0	0	0	0
8/8/2024 21:55	58401	MORO_T1	0	0	0	0	0	0	-0.71	-0.78	1	1	0	600	600	0
8/8/2024 21:56	59202	THOM_T1	2	11	9	0.1	0.15	0.05	0	0	0	0	0	0	0	0
8/8/2024 21:56	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/8/2024 21:56	59201	THOM_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
8/8/2024 21:56	13905	SEID_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
8/8/2024 21:56	64902	MILL_T2	0	0	0	0	0	0	-0.27	-0.34	1	1	0	900	900	0
8/8/2024 21:56	62104	ELAN_T1	0	0	0	0	0	0	0.55	-0.01	2	2	0	1500	1500	0
8/8/2024 21:56	57505	LAWN_T3	0	0	0	0	0	0	0.87	0.85	0	0	0	0	0	0
8/8/2024 21:56	60502	NMAN_T2	0	0	0	0	0	0	0.13	0.04	0	0	0	0	0	0
8/8/2024 21:56	55002	NEWP_T1	6	6	0	0.92	1.03	0.11	-0.15	-0.15	0	0	0	0	0	0
8/8/2024 21:57	59202	THOM_T1	2	11	9	0.1	0.15	0.05	0	0	0	0	0	0	0	0
8/8/2024 21:57	14802	TREI_T2	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
8/8/2024 21:57	59201	THOM_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
8/8/2024 21:58	56501	ROCK_T2	4	4	0	2.08	2.23	0.15	0.41	0.32	0	0	0	0	0	0
8/8/2024 21:58	61103	BERK_T5	0	0	0	0	0	0	0.29	-0.33	0	0	0	0	0	0
8/8/2024 21:58	20603	GRWO_T2	6	10	4	0.1	0.12	0.02	-0.53	-0.59	1	1	0	900	900	0
8/8/2024 21:58	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
8/8/2024 21:58	20401	ASHF_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
8/8/2024 21:58	20402	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/8/2024 21:58	64305	LINC_T1	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
8/8/2024 21:59	46803	HEPB_T2	5	17	12	0.24	0.18	-0.06	0	0	0	0	0	0	0	0
8/8/2024 21:59	55002	NEWP_T1	6	6	0	0.92	1.03	0.11	-0.15	-0.15	0	0	0	0	0	0
8/8/2024 21:59	67002	STHI_T2	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
8/8/2024 21:59	48302	ORWI_T2	2	2	0	0.7	0.8	0.1	0.01	0.02	0	0	0	0	0	0
8/8/2024 21:59	58202	NEWV_T1	8	8	0	0.81	1.33	0.52	-0.28	-0.23	0	0	0	0	0	0
8/8/2024 21:59	53601	DALM_T2	1	1	0	0.4	0.4	0	0.03	0.4	0	0	0	0	0	0
8/8/2024 21:59	46801	HEPB_T2	21	27	6	0.22	0.3	0.08	0.83	0.83	0	0	0	0	0	0
8/8/2024 21:59	42201	SHEN_T2	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
8/8/2024 22:00	52501	PROG_T1	0	0	0	0	0	0	0.14	0.17	1	1	0	300	300	0
8/8/2024 22:00	53501	EVIL_T2	0	2	2	0	0.15	0.15	-0.01	-0.01	1	1	0	600	600	0
8/8/2024 22:00	44202	POIN_T2	1	1	0	3.6	3.3	-0.3	0	0	0	0	0	0	0	0
8/8/2024 22:00	44203	POIN_T2	2	0	-2	0.3	0	-0.3	-0.35	-0.2	2	2	0	2100	2100	0
8/8/2024 22:01	45602	WOOL_T1	0	7	7	0	0.14	0.14	0.81	0.8	0	0	0	0	0	0
8/8/2024 22:01	41901	REED_T1	8	2	-6	0.94	0.2	-0.74	0	0	0	0	0	0	0	0
8/8/2024 22:01	46101	MACI_T2	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
8/8/2024 22:01	67805	WLAN_T1	10	73	63	0.1	0.16	0.06	-1.2	-1.18	0	0	0	0	0	0
8/8/2024 22:01	20402	ASHF_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/8/2024 22:01	41903	REED_T1	0	0	0	0	0	0	0.14	0.17	1	1	0	1200	1200	0
8/8/2024 22:01	46206	DANV_T2	0	0	0	0	0	0	1.41	1.33	2	2	0	2100	2100	0
8/8/2024 22:01	20401	ASHF_T2	2	1	-1	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/8/2024 22:01	55508	HERS_T2	29	3	-26	0.24	1.25	1.01	0	0	0	0	0	0	0	0
8/8/2024 22:01	61101	BERK_T5	0	0	0	0	0	0	-0.61	-0.65	0	0	0	0	0	0
8/8/2024 22:01	47401	PENS_T1	0	0	0	0	0	0	0.01	-0.06	0	0	0	0	0	0
8/8/2024 22:01	42201	SHEN_T2	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
8/8/2024 22:01	41902	REED_T1	5	10	5	0.2	0.44	0.24	0	0	0	0	0	0	0	0
8/8/2024 22:01	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
8/8/2024 22:01	43202	MVIL_T2	59	61	2	0.54	0.57	0.03	-0.58	-0.61	0	0	0	0	0	0
8/8/2024 22:02	67103	SPRI_T1	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
8/8/2024 22:03	67002	STHI_T2	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
8/8/2024 22:03	45501	DERR_T2	0	0	0	0	0	0	-0.12	-0.12	2	2	0	1800	1800	0
8/8/2024 22:03	44801	EDAN_T2	50	53	3	0.38	0.39	0.01	-1.53	-1.51	0	0	0	0	0	0
8/8/2024 22:03	53501	EVIL_T2	0	2	2	0	0.15	0.15	-0.01	-0.01	1	1	0	600	600	0
8/8/2024 22:04	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
8/8/2024 22:04	20401	ASHF_T2	2	1	-1	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/8/2024 22:04	20402	ASHF_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/8/2024 22:04	46203	DANV_T2	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
8/8/2024 22:04	63501	HEID_TBK1-2	50	49	-1	1.22	1.67	0.45	1.56	1.51	0	0	0	0	0	0
8/8/2024 22:04	61401	REFR_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
8/8/2024 22:04	65205	PRIN_T1	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
8/8/2024 22:04	53501	EVIL_T2	0	2	2	0	0.15	0.15	-0.01	-0.01	1	1	0	600	600	0
8/8/2024 22:05	53903	HALI_T2	2	2	0	1.6	0.55	-1.05	-0.06	-0.05	0	0	0	0	0	0
8/8/2024 22:05	63401	HONY_T1	0	0	0	0	0	0	0.15	-0.07	1	1	0	600	600	0
8/8/2024 22:05	46203	DANV_T2	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
8/8/2024 22:05	67001	STHI_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
8/8/2024 22:05	46206	DANV_T2	0	0	0	0	0	0	1.41	1.33	2	2	0	2100	2100	0
8/8/2024 22:05	46102	MACI_T1	0	0	0	0	0	0	0.86	0.86	0	0	0	0	0	0
8/8/2024 22:05	46301	ROHR_T1	166	158	-8	0.33	0.3	-0.03	0.27	0.29	0	0	0	0	0	0
8/8/2024 22:05	53902	HALI_T2	1	1	0	5	4	-1	0	0	0	0	0	0	0	0
8/8/2024 22:05	53901	HALI_T2	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
8/8/2024 22:05	46302	ROHR_T1	5	6	1	1.56	1.7	0.14	0	0	0	0	0	0	0	0
8/8/2024 22:05	45802	HEGI_T2	15	16	1	0.47	0.43	-0.04	1.11	1.01	0	0	0	0	0	0
8/8/2024 22:05	66703	STRA_T1	4	5	1	0.2	0.66	0.46	0	0.02	0	0	0	0	0	0
8/8/2024 22:05	51402	LYKE_T1	0	0	0	0	0	0	-1.26	-1.27	1	1	0	600	600	0
8/8/2024 22:05	21705	SUBU_T1	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
8/8/2024 22:05	21703	SUBU_T1	0	0	0	0	0	0	0.77	0.73	0	0	0	0	0	0
8/8/2024 22:05	23001	SAJO_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
8/8/2024 22:05	21701	SUBU_T1	1	1	0	6.3	6.7	0.4	0	0	0	0	0	0	0	0
8/8/2024 22:06	43202	MVIL_T2	59	61	2	0.54	0.57	0.03	-0.58	-0.61	0	0	0	0	0	0
8/8/2024 22:06	61102	BERK_T5	0	0	0	0	0	0	-0.12	0.71	1	1	0	300	300	0
8/8/2024 22:07	45501	DERR_T2	0	0	0	0	0	0	-0.12	0.05	2	2	0	1800	1800	0
8/8/2024 22:07	67001	STHI_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
8/8/2024 22:07	45502	DERR_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
8/8/2024 22:07	46206	DANV_T2	0	0	0	0	0	0	1.33	1.34	2	2	0	2100	2100	0
8/8/2024 22:07	61102	BERK_T5	0	0	0	0	0	0	0.71	0.71	1	1	0	300	300	0
8/8/2024 22:07	56501	ROCK_T2	4	2	-2	2.23	3.45	1.22	0.32	0.31	0	0	0	0	0	0
8/8/2024 22:08	67002	STHI_T2	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
8/8/2024 22:08	47401	PENS_T1	0	0	0	0	0	0	-0.06	1.13	0	0	0	0	0	0
8/8/2024 22:09	61102	BERK_T5	0	0	0	0	0	0	0.71	0.71	1	1	0	300	300	0
8/8/2024 22:09	53902	HALI_T2	1	1	0	5	4	-1	0	0	0	0	0	0	0	0
8/8/2024 22:09	53901	HALI_T2	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
8/8/2024 22:09	53903	HALI_T2	2	2	0	1.6	0.55	-1.05	-0.05	-0.05	0	0	0	0	0	0
8/8/2024 22:10	43202	MVIL_T2	59	61	2	0.54	0.57	0.03	-0.61	-0.6	0	0	0	0	0	0
8/8/2024 22:11	53501	EVIL_T2	0	2	2	0	0.15	0.15	-0.02	-0.02	3	3	0	1800	1800	0
8/8/2024 22:11	46203	DANV_T2	0	0	0	0	0	0	-0.99	-1.01	0	0	0	0	0	0
8/8/2024 22:11	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2024 22:11	46206	DANV_T2	0	0	0	0	0	0	1.33	1.34	2	2	0	2100	2100	0
8/8/2024 22:12	43202	MVIL_T2	59	61	2	0.54	0.57	0.03	-0.61	-0.6	0	0	0	0	0	0
8/8/2024 22:12	46203	DANV_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
8/8/2024 22:13	43202	MVIL_T2	59	61	2	0.54	0.57	0.03	-0.61	-0.6	0	0	0	0	0	0
8/8/2024 22:14	44801	EDAN_T2	50	53	3	0.38	0.39	0.01	-1.51	-1.51	0	0	0	0	0	0
8/8/2024 22:15	61801	EELI_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
8/8/2024 22:24	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/8/2024 22:24	20403	ASHF_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
8/8/2024 22:25	63305	GREE_T1	9	10	1	0.31	0.33	0.02	0	0	0	0	0	0	0	0
8/8/2024 22:25	63304	GREE_T1	0	0	0	0	0	0	-1.51	-1.49	0	0	0	0	0	0
8/8/2024 22:25	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.35	-0.33	0	0	0	0	0	0
8/8/2024 22:43	44801	EDAN_T2	53	82	29	0.38	0.39	0.01	-1.52	-1.52	0	0	0	0	0	0
8/8/2024 22:50	45501	DERR_T2	0	0	0	0	0	0	-0.06	-0.11	2	2	0	1800	1800	0
8/8/2024 22:53	51402	LYKE_T1	0	0	0	0	0	0	-1.27	-1.32	1	1	0	600	600	0
8/8/2024 22:57	54505	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/8/2024 22:57	54506	ENOL_T2	0	0	0	0	0	0	-0.02	-0.04	1	1	0	600	600	0
8/8/2024 23:02	16102	BING_T2	0	0	0	0	0	0	-0.16	-0.14	1	1	0	1200	1200	0
8/8/2024 23:36	56501	ROCK_T2	5	3	-2	1.34	2.4	1.06	0.25	0.21	0	0	0	0	0	0
8/9/2024 0:24	53501	EVIL_T2	2	2	0	0.8	1.05	0.25	-0.01	-0.01	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/9/2024 3:04	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 7:39	29401	BELT_T1	0	24	24	0	0.17	0.17	0	0	1	1	0	900	900	0
8/9/2024 7:39	29402	BELT_T1	1	1	0	7.4	7.8	0.4	0	0	0	0	0	0	0	0
8/9/2024 7:52	14601	SWHI_T1	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
8/9/2024 7:53	14601	SWHI_T1	0	0	0	0	0	0	-1.91	-1.88	0	0	0	0	0	0
8/9/2024 7:54	14601	SWHI_T1	0	0	0	0	0	0	-1.91	-1.88	0	0	0	0	0	0
8/9/2024 7:56	14603	SWHI_T1	0	0	0	0	0	0	0.53	0.48	1	1	0	600	600	0
8/9/2024 8:13	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 8:31	64305	LINC_T1	1	1	0	0.7	0.4	-0.3	0.32	0.51	0	0	0	0	0	0
8/9/2024 8:53	67103	SPRI_T1	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
8/9/2024 9:41	11101	EGYP_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/9/2024 9:41	11103	EGYP_T1	0	0	0	0	0	0	-0.61	-0.64	0	0	0	0	0	0
8/9/2024 9:41	11102	EGYP_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
8/9/2024 9:43	11101	EGYP_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/9/2024 9:43	11103	EGYP_T1	0	0	0	0	0	0	-0.61	-0.64	0	0	0	0	0	0
8/9/2024 9:43	11102	EGYP_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
8/9/2024 9:57	10705	CATA_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	900	900	0
8/9/2024 10:00	40505	CRES_T1	3	6	3	2.9	3.4	0.5	0.7	0.67	0	0	0	0	0	0
8/9/2024 10:00	28102	TWLA_T2	0	4	4	0	0.18	0.18	0.24	0.27	0	0	0	0	0	0
8/9/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-1.02	-0.97	1	1	0	600	600	0
8/9/2024 10:00	67503	WEWI_T2	1	1	0	5.3	5.9	0.6	0.28	0.35	0	0	0	0	0	0
8/9/2024 10:00	61001	DONV_T1	0	0	0	0	0	0	0.28	0.22	0	0	0	0	0	0
8/9/2024 10:10	16102	BING_T2	0	1	1	0	0.1	0.1	-0.18	-0.17	1	1	0	1200	1200	0
8/9/2024 10:14	11104	EGYP_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 10:14	11102	EGYP_T1	1	1	0	0.5	1.5	1	-0.05	-0.03	0	0	0	0	0	0
8/9/2024 10:14	11101	EGYP_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/9/2024 10:21	61303	EARL_T1	0	0	0	0	0	0	0.85	0.78	0	0	0	0	0	0
8/9/2024 10:26	13903	SEID_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/9/2024 10:26	13904	SEID_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
8/9/2024 10:33	29402	BELT_T1	1	1	0	9.3	9.4	0.1	0	0	0	0	0	0	0	0
8/9/2024 10:33	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 10:34	57306	MOAL_T2	0	0	0	0	0	0	-2.75	-2.76	1	1	0	1200	1200	0
8/9/2024 10:34	57303	MOAL_T2	1	1	0	7.5	7.1	-0.4	0	0	0	0	0	0	0	0
8/9/2024 10:34	29402	BELT_T1	1	1	0	9.3	9.4	0.1	0	0	0	0	0	0	0	0
8/9/2024 10:35	57306	MOAL_T2	0	0	0	0	0	0	-2.75	-2.76	1	1	0	1200	1200	0
8/9/2024 10:35	57303	MOAL_T2	1	1	0	7.5	7.1	-0.4	0	0	0	0	0	0	0	0
8/9/2024 10:36	57306	MOAL_T2	0	0	0	0	0	0	-2.75	-2.76	1	1	0	1200	1200	0
8/9/2024 10:36	57303	MOAL_T2	1	1	0	7.5	7.1	-0.4	0	0	0	0	0	0	0	0
8/9/2024 10:37	65603	QVIL_T2	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
8/9/2024 10:38	53502	EVIL_T2	2	1	-1	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/9/2024 10:38	53501	EVIL_T2	2	2	0	0.95	1	0.05	-0.01	-0.01	1	2	1	600	1500	900
8/9/2024 10:47	51702	OBER_T1	2	2	0	2.85	2.65	-0.2	-0.19	-0.13	1	1	0	600	600	0
8/9/2024 10:47	52401	GRPA_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/9/2024 10:47	52403	GRPA_T2	12	14	2	0.53	0.46	-0.07	-0.23	-0.23	0	0	0	0	0	0
8/9/2024 10:52	64904	MILL_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
8/9/2024 10:59	46101	MACI_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
8/9/2024 11:00	55508	HERS_T2	2	2	0	1.6	1.35	-0.25	-4.46	-4.59	2	2	0	2400	2400	0
8/9/2024 11:02	16301	ALPA_T1	0	456	456	0	0	0	0.36	0.4	0	0	0	0	0	0
8/9/2024 11:03	64305	LINC_T1	1	1	0	0.7	1	0.3	0.53	0.49	0	0	0	0	0	0
8/9/2024 11:16	20403	ASHF_T2	1	2	1	1	0	-1	0.45	0.47	0	0	0	0	0	0
8/9/2024 11:16	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 11:16	63305	GREE_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/9/2024 11:16	63304	GREE_T1	0	0	0	0	0	0	-0.89	-1	0	0	0	0	0	0
8/9/2024 11:18	11101	EGYP_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/9/2024 11:18	63305	GREE_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/9/2024 11:18	11102	EGYP_T1	3	2	-1	1.07	0.3	-0.77	0	0	0	0	0	0	0	0
8/9/2024 11:18	11104	EGYP_T1	5	7	2	1.58	1.3	-0.28	0	0	0	0	0	0	0	0
8/9/2024 11:18	11103	EGYP_T1	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
8/9/2024 11:18	63304	GREE_T1	0	0	0	0	0	0	-0.89	-1	0	0	0	0	0	0
8/9/2024 11:19	20603	GRWO_T2	0	0	0	0	0	0	-0.44	-0.43	1	1	0	900	900	0
8/9/2024 11:19	20601	GRWO_T2	2	8	6	0.15	0.23	0.08	0	0	0	0	0	0	0	0
8/9/2024 11:21	11104	EGYP_T1	5	7	2	1.58	1.3	-0.28	0	0	0	0	0	0	0	0
8/9/2024 11:21	11102	EGYP_T1	3	2	-1	1.07	0.3	-0.77	0	0	0	0	0	0	0	0
8/9/2024 11:21	11101	EGYP_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/9/2024 11:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 11:21	11103	EGYP_T1	0	0	0	0	0	0	-0.59	-0.55	0	0	0	0	0	0
8/9/2024 11:21	66505	SMAN_T2	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/9/2024 11:34	64902	MILL_T2	0	0	0	0	0	0	-0.03	-0.04	1	1	0	900	900	0
8/9/2024 11:34	64903	MILL_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/9/2024 11:35	13503	MCMI_T2	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
8/9/2024 11:37	53803	MBRG_T2	0	0	0	0	0	0	0	0.06	0	0	0	0	0	0
8/9/2024 11:44	55508	HERS_T2	2	2	0	1.35	1.45	0.1	0	0	0	0	0	0	0	0
8/9/2024 11:49	11102	EGYP_T1	2	45	43	0.2	1.45	1.25	-0.02	-0.26	0	0	0	0	0	0
8/9/2024 11:49	52401	GRPA_T2	1	5	4	0.6	0.23	-0.37	0	0	0	0	0	0	0	0
8/9/2024 11:49	11101	EGYP_T1	1	4	3	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/9/2024 11:49	52403	GRPA_T2	5	9	4	1	0.67	-0.33	-0.21	-0.24	0	0	0	0	0	0
8/9/2024 11:49	52402	GRPA_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/9/2024 11:49	11104	EGYP_T1	7	21	14	1.81	1.58	-0.23	0	0	0	0	0	0	0	0
8/9/2024 11:50	56802	BENV_T2	1	0	-1	2.6	0	-2.6	0	0	0	0	0	0	0	0
8/9/2024 11:52	11101	EGYP_T1	1	4	3	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/9/2024 11:52	11104	EGYP_T1	7	21	14	1.81	1.58	-0.23	0	0	0	0	0	0	0	0
8/9/2024 11:52	11102	EGYP_T1	2	45	43	0.2	1.45	1.25	-0.26	0.54	0	0	0	0	0	0
8/9/2024 11:54	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 11:54	45802	HEGI_T2	2	10	8	0.25	0.2	-0.05	0.69	0.7	1	1	0	300	300	0
8/9/2024 11:55	11102	EGYP_T1	2	45	43	0.2	1.45	1.25	-0.26	0.54	0	0	0	0	0	0
8/9/2024 11:55	11101	EGYP_T1	1	4	3	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/9/2024 11:55	11104	EGYP_T1	7	21	14	1.81	1.58	-0.23	0	0	0	0	0	0	0	0
8/9/2024 11:55	45802	HEGI_T2	2	10	8	0.25	0.2	-0.05	0.69	0.7	1	1	0	300	300	0
8/9/2024 12:01	44301	BEAV_T2	0	0	0	0	0	0	-0.78	-0.88	2	2	0	1500	1500	0
8/9/2024 12:02	45602	WOOL_T1	0	0	0	0	0	0	1.11	1.12	0	0	0	0	0	0
8/9/2024 12:04	45602	WOOL_T1	0	0	0	0	0	0	1.11	1.12	0	0	0	0	0	0
8/9/2024 12:06	44301	BEAV_T2	0	0	0	0	0	0	-0.78	-0.88	2	2	0	1500	1500	0
8/9/2024 12:08	56802	BENV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 12:09	11101	EGYP_T1	4	1	-3	0.63	0	-0.63	1.2	1.32	0	0	0	0	0	0
8/9/2024 12:09	11104	EGYP_T1	21	8	-13	0.99	1.58	0.59	0	0	0	0	0	0	0	0
8/9/2024 12:09	11102	EGYP_T1	45	4	-41	0.74	0.8	0.06	0	0	0	0	0	0	0	0
8/9/2024 12:11	56802	BENV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 12:11	16301	ALPA_T1	0	0	0	0	0	0	0	-0.15	0	0	0	0	0	0
8/9/2024 12:12	56504	ROCK_T2	0	0	0	0	0	0	-0.58	-0.54	0	0	0	0	0	0
8/9/2024 12:12	56501	ROCK_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
8/9/2024 12:13	56802	BENV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 12:14	54201	PENN_T1	6	3	-3	0.83	1.57	0.74	-0.42	-0.38	0	0	0	0	0	0
8/9/2024 12:14	54203	PENN_T1	17	28	11	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
8/9/2024 12:15	54201	PENN_T1	3	3	0	1.57	1.37	-0.2	-0.42	-0.38	0	0	0	0	0	0
8/9/2024 12:15	54203	PENN_T1	13	25	12	0.38	0.43	0.05	0	0	0	0	0	0	0	0
8/9/2024 12:20	67505	WEWI_T1	0	0	0	0	0	0	0.74	0.68	1	1	0	900	900	0
8/9/2024 12:24	40101	HUNT_T2	42	43	1	0.37	0.48	0.11	-0.07	-0.05	0	0	0	0	0	0
8/9/2024 12:26	56501	ROCK_T2	2	2	0	0.25	0.45	0.2	-0.81	-0.77	0	0	0	0	0	0
8/9/2024 12:27	56501	ROCK_T2	2	2	0	0.25	0.45	0.2	-0.81	-0.77	0	0	0	0	0	0
8/9/2024 12:29	54203	PENN_T1	13	25	12	0.38	0.43	0.05	0.84	0.87	0	0	0	0	0	0
8/9/2024 12:29	56501	ROCK_T2	2	2	0	0.25	0.45	0.2	-0.81	-0.77	0	0	0	0	0	0
8/9/2024 12:29	54201	PENN_T1	3	3	0	1.57	1.37	-0.2	0	0	0	0	0	0	0	0
8/9/2024 12:31	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 12:32	46203	DANV_T2	0	0	0	0	0	0	-1.56	-1.47	0	0	0	0	0	0
8/9/2024 12:32	46206	DANV_T2	1	2	1	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
8/9/2024 12:33	52403	GRPA_T2	5	18	13	0.56	0.79	0.23	-0.2	-0.2	0	0	0	0	0	0
8/9/2024 12:33	52401	GRPA_T2	4	5	1	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
8/9/2024 12:34	64501	LAVI_T1	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
8/9/2024 12:35	11102	EGYP_T1	3	1756	1753	0.8	1.2	0.4	0.13	-0.29	0	0	0	0	0	0
8/9/2024 12:35	11101	EGYP_T1	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
8/9/2024 12:35	11104	EGYP_T1	8	219	211	1.4	1.54	0.14	0	0	0	0	0	0	0	0
8/9/2024 12:36	61304	EARL_T1	0	0	0	0	0	0	-1.27	-1.28	1	1	0	600	600	0
8/9/2024 12:37	61304	EARL_T1	0	0	0	0	0	0	-1.28	-1.28	1	1	0	600	600	0
8/9/2024 12:41	66505	SMAN_T2	2	58	56	0.15	0.33	0.18	0.77	0.78	4	4	0	2300	2300	0
8/9/2024 12:42	66505	SMAN_T2	2	58	56	0.15	0.33	0.18	0.77	0.78	4	4	0	2300	2300	0
8/9/2024 12:45	44801	EDAN_T2	1	1	0	2.1	2.1	0	-1.37	-1.33	0	0	0	0	0	0
8/9/2024 12:47	52401	GRPA_T2	5	3	-2	0.38	0.2	-0.18	0	0	0	0	0	0	0	0
8/9/2024 12:47	52404	GRPA_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
8/9/2024 12:47	52403	GRPA_T2	10	18	8	0.79	0.95	0.16	0	0	0	0	0	0	0	0
8/9/2024 12:48	64701	LITI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 12:51	52503	PROG_T2	0	0	0	0	0	0	-0.33	-0.33	1	1	0	900	900	0
8/9/2024 12:52	52503	PROG_T2	0	0	0	0	0	0	-0.33	-0.35	1	1	0	900	900	0
8/9/2024 12:55	58202	NEWV_T1	0	0	0	0	0	0	-0.15	0.05	0	0	0	0	0	0
8/9/2024 12:58	51306	WIND_T2	0	0	0	0	0	0	0.35	0.39	0	0	0	0	0	0
8/9/2024 12:59	44801	EDAN_T2	1	1	0	2.1	2.1	0	-1.33	-1.31	0	0	0	0	0	0
8/9/2024 13:00	12006	HATF_T1	0	1	1	0	0.2	0.2	-0.62	-0.59	3	3	0	3600	3600	0
8/9/2024 13:01	59202	THOM_T1	25	53	28	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
8/9/2024 13:03	59202	THOM_T1	25	53	28	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
8/9/2024 13:04	16005	DORN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/9/2024 13:04	56802	BENV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 13:06	66901	SHIL_T2	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
8/9/2024 13:07	40101	HUNT_T2	29	131	102	0.46	0.5	0.04	0.03	-0.2	0	0	0	0	0	0
8/9/2024 13:12	66901	SHIL_T2	0	0	0	0	0	0	0.44	0.49	0	0	0	0	0	0
8/9/2024 13:26	45501	DERR_T2	0	0	0	0	0	0	0.1	0.19	2	2	0	1800	1800	0
8/9/2024 13:28	45501	DERR_T2	0	0	0	0	0	0	0.1	0.19	2	2	0	1800	1800	0
8/9/2024 13:31	45501	DERR_T2	0	0	0	0	0	0	0.1	0.19	2	2	0	1800	1800	0
8/9/2024 13:32	45501	DERR_T2	0	0	0	0	0	0	0.1	0.19	2	2	0	1800	1800	0
8/9/2024 13:36	29402	BELT_T1	1	15	14	7.9	0.81	-7.09	0	0	0	0	0	0	0	0
8/9/2024 13:36	59101	WALK_T2	0	1	1	0	0	0	0.62	0.67	0	0	0	0	0	0
8/9/2024 13:36	29401	BELT_T1	0	26	26	0	0.18	0.18	0	0	0	1	1	0	900	900
8/9/2024 13:36	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/9/2024 13:39	13503	MCMI_T2	35	0	-35	0.45	0	-0.45	0.21	0.2	0	0	0	0	0	0
8/9/2024 13:44	13503	MCMI_T2	35	0	-35	0.45	0	-0.45	0.21	0.2	0	0	0	0	0	0
8/9/2024 13:51	42902	MIDD_T2	1	1	0	2.3	1.9	-0.4	-0.01	0.03	0	0	0	0	0	0
8/9/2024 13:51	42903	MIDD_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
8/9/2024 13:58	42503	ALTA_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
8/9/2024 14:03	46802	HEPB_T1	1	1	0	0.3	0.4	0.1	0.07	0.08	0	0	0	0	0	0
8/9/2024 14:08	44202	POIN_T2	1	1	0	1.8	1.4	-0.4	0	0	0	0	0	0	0	0
8/9/2024 14:08	44203	POIN_T2	5	15	10	2.08	1.48	-0.6	0.17	0.2	2	2	0	2100	2100	0
8/9/2024 14:16	42201	SHEN_T2	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
8/9/2024 14:19	16006	DORN_T2	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
8/9/2024 14:21	47802	MOCA_T2	0	0	0	0	0	0	-0.39	-0.52	0	0	0	0	0	0
8/9/2024 14:21	58202	NEWV_T1	0	0	0	0	0	0	0.26	0.32	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/9/2024 14:21	44203	POIN_T2	9	14	5	2.04	0.64	-1.4	0.34	0.4	4	4	0	4200	4200	0
8/9/2024 14:21	44202	POIN_T2	1	2	1	1.4	1.9	0.5	0	0	0	0	0	0	0	0
8/9/2024 14:24	16004	DORN_T1	0	0	0	0	0	0	-1.68	-1.71	2	2	0	2400	2400	0
8/9/2024 14:27	49804	UNIV_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/9/2024 14:27	49803	UNIV_T1	1	1	0	6.6	6.7	0.1	-1.61	-1.63	0	0	0	0	0	0
8/9/2024 14:30	15203	SFAR_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/9/2024 14:30	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 14:31	49803	UNIV_T1	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
8/9/2024 14:31	15203	SFAR_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/9/2024 14:31	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 14:31	49804	UNIV_T1	0	0	0	0	0	0	0.96	0.93	0	0	0	0	0	0
8/9/2024 14:32	46102	MACI_T1	0	0	0	0	0	0	0.94	0.92	0	0	0	0	0	0
8/9/2024 14:33	67803	WLAN_T1	0	0	0	0	0	0	-1.15	-1.14	0	0	0	0	0	0
8/9/2024 14:35	40901	JESH_T1	1	11	10	1.9	1.7	-0.2	-0.02	-0.06	1	1	0	900	900	0
8/9/2024 14:35	40902	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 14:36	59101	WALK_T2	2	0	-2	1	0	-1	1.25	0.65	0	0	0	0	0	0
8/9/2024 14:36	59102	WALK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/9/2024 14:36	51204	MTON_T2	0	0	0	0	0	0	-0.16	-0.18	1	1	0	600	600	0
8/9/2024 14:37	52501	PROG_T1	0	0	0	0	0	0	0.55	0.52	1	1	0	300	300	0
8/9/2024 14:38	66301	MCGO_T2	0	0	0	0	0	0	-1.39	-1.39	0	0	0	0	0	0
8/9/2024 14:38	64904	MILL_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
8/9/2024 14:38	66901	SHIL_T2	1	0	-1	7.9	0	-7.9	0.42	0.34	0	0	0	0	0	0
8/9/2024 14:41	42701	AUGU_T1	0	1	1	0	0	0	0	0	2	2	0	1800	1800	0
8/9/2024 14:43	24702	FLND_T2	0	1	1	0	0	0	1.8	1.74	0	0	0	0	0	0
8/9/2024 14:45	42701	AUGU_T1	0	2	2	0	0	0	0	0	2	2	0	1800	1800	0
8/9/2024 14:46	47202	FAXO_T2	0	0	0	0	0	0	-1.76	-1.75	0	0	0	0	0	0
8/9/2024 14:47	24702	FLND_T2	1	1	0	0.3	0	-0.3	1.8	1.74	0	0	0	0	0	0
8/9/2024 14:49	63305	GREE_T1	7	3	-4	0.26	0.2	-0.06	-1.48	-1.49	1	1	0	900	900	0
8/9/2024 14:53	44203	POIN_T2	8	9	1	0.68	0.1	-0.58	0.15	0.08	2	2	0	2100	2100	0
8/9/2024 14:53	44202	POIN_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
8/9/2024 14:56	67103	SPRI_T1	0	0	0	0	0	0	0.34	0.29	0	0	0	0	0	0
8/9/2024 14:58	56802	BENV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/9/2024 14:58	66302	MCGO_T2	0	0	0	0	0	0	-1.22	-1.07	1	1	0	600	600	0
8/9/2024 15:00	63601	LETO_T1	6	7	1	0.6	0.61	0.01	0.04	0.13	0	0	0	0	0	0
8/9/2024 15:03	53901	HALI_T2	0	0	0	0	0	0	-0.86	-0.77	0	0	0	0	0	0
8/9/2024 15:03	63305	GREE_T1	3	1	-2	0.2	0.2	0	-1.49	-1.53	1	1	0	900	900	0
8/9/2024 15:03	53903	HALI_T2	2	2	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
8/9/2024 15:03	53902	HALI_T2	1	2	1	4.7	2.4	-2.3	0	0	0	0	0	0	0	0
8/9/2024 15:03	55101	WERT_T1	0	0	0	0	0	0	-1.72	-1.76	4	4	0	3300	3300	0
8/9/2024 15:04	53901	HALI_T2	0	0	0	0	0	0	-1.71	-1.54	0	0	0	0	0	0
8/9/2024 15:04	53902	HALI_T2	1	2	1	4.7	2.4	-2.3	0	0	0	0	0	0	0	0
8/9/2024 15:04	53903	HALI_T2	2	2	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
8/9/2024 15:05	53901	HALI_T2	0	0	0	0	0	0	-0.86	-0.77	0	0	0	0	0	0
8/9/2024 15:05	53903	HALI_T2	2	2	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
8/9/2024 15:05	53902	HALI_T2	1	2	1	4.7	2.4	-2.3	0	0	0	0	0	0	0	0
8/9/2024 15:13	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 15:13	67605	WARW_T1	0	1	1	0	0.3	0.3	-0.73	-0.75	0	0	0	0	0	0
8/9/2024 15:14	14201	EALL_T1	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
8/9/2024 15:15	45402	WBLO_T2	1	1	0	1.4	1.3	-0.1	-1.05	-1.12	1	1	0	900	900	0
8/9/2024 15:16	44801	EDAN_T2	1	1	0	2.8	2.9	0.1	-1.24	-1.22	0	0	0	0	0	0
8/9/2024 15:17	44801	EDAN_T2	1	1	0	2.8	2.9	0.1	-1.24	-1.22	0	0	0	0	0	0
8/9/2024 15:18	59202	THOM_T1	6	29	23	0.4	0.44	0.04	0	0	0	0	0	0	0	0
8/9/2024 15:18	59201	THOM_T1	4	15	11	0.18	0.29	0.11	0	0	0	0	0	0	0	0
8/9/2024 15:19	41902	REED_T1	9	4	-5	0.43	0.65	0.22	0.25	0.26	0	0	0	0	0	0
8/9/2024 15:19	41901	REED_T1	9	9	0	0.6	0.66	0.06	0	0	0	0	0	0	0	0
8/9/2024 15:20	59201	THOM_T1	4	15	11	0.18	0.29	0.11	0	0	0	0	0	0	0	0
8/9/2024 15:20	59202	THOM_T1	6	29	23	0.4	0.44	0.04	0	0	0	0	0	0	0	0
8/9/2024 15:21	67804	WLAN_T1	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
8/9/2024 15:21	67803	WLAN_T1	0	0	0	0	0	0	-1.11	-1.09	0	0	0	0	0	0
8/9/2024 15:22	40302	TAMA_T3	0	13	13	0	0	0	0.12	0.13	0	0	0	0	0	0
8/9/2024 15:22	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 15:22	46801	HEPB_T2	17	5	-12	0.31	0.6	0.29	0	0	0	0	0	0	0	0
8/9/2024 15:22	46803	HEPB_T2	4	4	0	0.3	0.23	-0.07	0.53	0.54	0	0	0	0	0	0
8/9/2024 15:23	64101	REFR_T1	0	0	0	0	0	0	1.3	1.42	0	0	0	0	0	0
8/9/2024 15:26	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 15:28	56501	ROCK_T2	2	3	1	0.15	0.23	0.08	-1.64	-1.59	0	0	0	0	0	0
8/9/2024 15:29	56802	BENV_T2	0	0	0	0	0	0	0	0.09	0	0	0	0	0	0
8/9/2024 15:32	44301	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/9/2024 15:32	44801	EDAN_T2	1	2	1	2.9	2.8	-0.1	-1.22	-1.27	0	0	0	0	0	0
8/9/2024 15:32	56501	ROCK_T2	3	17	14	0.23	0.3	0.07	-1.64	-1.59	0	0	0	0	0	0
8/9/2024 15:33	44301	BEAV_T2	0	1	1	0	0.2	0.2	0	0.01	1	1	0	600	600	0
8/9/2024 15:35	13201	PALM_T1	0	3	3	0	0.17	0.17	-1.46	-1.48	1	1	0	1200	1200	0
8/9/2024 15:35	44301	BEAV_T2	0	1	1	0	0.2	0.2	0	0.01	1	1	0	600	600	0
8/9/2024 15:43	40801	EXCH_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/9/2024 15:43	40802	EXCH_T2	1	1	0	0.3	0.1	-0.2	-0.78	-0.81	0	0	0	0	0	0
8/9/2024 15:43	10705	CATA_T2	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
8/9/2024 15:43	10702	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 15:46	20403	ASHF_T2	0	0	0	0	0	0	0.6	0.66	0	0	0	0	0	0
8/9/2024 15:46	20402	ASHF_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/9/2024 15:46	13202	PALM_T2	0	0	0	0	0	0	-3.59	-3.63	8	8	0	7200	7200	0
8/9/2024 15:46	40801	EXCH_T2	1	3	2	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
8/9/2024 15:46	40802	EXCH_T2	0	1	1	0	0.1	0.1	-0.78	-0.81	0	0	0	0	0	0
8/9/2024 15:47	20402	ASHF_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/9/2024 15:47	20403	ASHF_T2	0	0	0	0	0	0	0.6	0.66	0	0	0	0	0	0
8/9/2024 15:51	42902	MIDD_T2	1	1	0	2.2	2.1	-0.1	0	0	0	0	0	0	0	0
8/9/2024 15:51	42903	MIDD_T2	2	2	0	0.65	0.6	-0.05	0.32	0.59	0	0	0	0	0	0
8/9/2024 15:51	65205	PRIN_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
8/9/2024 15:52	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/9/2024 15:52	65207	PRIN_T4	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
8/9/2024 15:52	65206	PRIN_T4	1	0	-1	3.9	0	-3.9	0	0	0	0	0	0	0	0
8/9/2024 15:55	63501	HEID_TBK1-2	54	54	0	1.67	1.26	-0.41	0.18	0.16	1	1	0	900	900	0
8/9/2024 15:56	46204	DANV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/9/2024 15:56	63501	HEID_TBK1-2	54	54	0	1.67	1.26	-0.41	0.18	0.16	1	1	0	900	900	0
8/9/2024 15:56	46206	DANV_T2	53	44	-9	0.56	0.59	0.03	1.78	1.75	2	2	0	2100	2100	0
8/9/2024 15:56	46203	DANV_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
8/9/2024 15:59	60803	BUCK_T1	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
8/9/2024 15:59	60801	BUCK_T1	0	0	0	0	0	0	-0.62	-0.58	1	1	0	600	600	0
8/9/2024 16:00	56501	ROCK_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
8/9/2024 16:00	10502	CRAC_T1	0	0	0	0	0	0	1.9	1.94	0	0	0	0	0	0
8/9/2024 16:00	56504	ROCK_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
8/9/2024 16:01	53601	DALM_T2	1	1	0	1	0.8	-0.2	-0.79	-0.87	1	1	0	900	900	0
8/9/2024 16:01	58402	MORO_T1	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
8/9/2024 16:01	58401	MORO_T1	0	0	0	0	0	0	-1.19	-1.16	2	2	0	1500	1500	0
8/9/2024 16:02	44301	BEAV_T2	0	0	0	0	0	0	-0.04	0.01	1	1	0	600	600	0
8/9/2024 16:02	58401	MORO_T1	0	0	0	0	0	0	-1.19	-1.16	2	2	0	1500	1500	0
8/9/2024 16:02	58402	MORO_T1	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
8/9/2024 16:03	63303	GREE_T1	0	0	0	0	0	0	-0.31	-0.32	2	2	0	1800	1800	0
8/9/2024 16:03	58402	MORO_T1	0	2	2	0	0.8	0.8	-0.36	-0.38	3	3	0	2400	2400	0
8/9/2024 16:04	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 16:04	62106	ELAN_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
8/9/2024 16:05	16006	DORN_T2	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
8/9/2024 16:05	44301	BEAV_T2	0	0	0	0	0	0	-0.04	0.01	1	1	0	600	600	0
8/9/2024 16:11	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 16:11	21206	ECAR_T2	1	1	0	8	7.7	-0.3	0.45	0.42	0	0	0	0	0	0
8/9/2024 16:14	56802	BENV_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
8/9/2024 16:17	40901	JESH_T1	1	1	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
8/9/2024 16:17	12602	MACA_T1	0	0	0	0	0	0	-2.18	-2.16	1	1	0	600	600	0
8/9/2024 16:17	40902	JESH_T1	0	0	0	0	0	0	-0.61	-0.54	1	1	0	600	600	0
8/9/2024 16:18	40801	EXCH_T2	3	3	0	0.13	0.27	0.14	0	0	0	0	0	0	0	0
8/9/2024 16:18	63401	HONY_T1	0	0	0	0	0	0	0.1	0.03	1	1	0	600	600	0
8/9/2024 16:18	40802	EXCH_T2	0	4	4	0	0.15	0.15	-0.79	-0.78	0	0	0	0	0	0
8/9/2024 16:18	40902	JESH_T1	0	0	0	0	0	0	-0.61	-0.54	1	1	0	600	600	0
8/9/2024 16:18	40901	JESH_T1	1	1	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
8/9/2024 16:19	54505	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/9/2024 16:19	54506	ENOL_T2	0	1	1	0	0	0	-0.38	-0.45	1	1	0	600	600	0
8/9/2024 16:29	65001	NEFF_T2	0	0	0	0	0	0	-0.34	-0.43	1	1	0	1200	1200	0
8/9/2024 16:29	55001	NEWP_T1	0	0	0	0	0	0	-0.96	-1.08	1	1	0	600	600	0
8/9/2024 16:29	55002	NEWP_T1	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
8/9/2024 16:31	23901	EFMO_T2	0	0	0	0	0	0	-0.16	-0.14	0	0	0	0	0	0
8/9/2024 16:32	45602	WOOL_T1	0	0	0	0	0	0	1.1	1.07	0	0	0	0	0	0
8/9/2024 16:34	60502	NMAN_T2	0	0	0	0	0	0	0.19	0.23	0	0	0	0	0	0
8/9/2024 16:35	60502	NMAN_T2	0	0	0	0	0	0	0.19	0.23	0	0	0	0	0	0
8/9/2024 16:42	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.7	-0.69	0	0	0	0	0	0
8/9/2024 16:44	12002	HATF_T1	0	0	0	0	0	0	-0.93	-0.97	1	1	0	1200	1200	0
8/9/2024 16:45	56802	BENV_T2	0	101	101	0	0	0	0.08	0.1	0	0	0	0	0	0
8/9/2024 16:45	41602	CLEV_T1	5	9	4	0.64	0.7	0.06	0	0	1	1	0	600	600	0
8/9/2024 16:49	46803	HEPB_T2	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
8/9/2024 16:49	46801	HEPB_T2	8	3	-5	0.24	0.47	0.23	0.33	0.35	0	0	0	0	0	0
8/9/2024 17:05	65207	PRIN_T4	2	3	1	0.2	0.23	0.03	0	0	2	2	0	1800	1800	0
8/9/2024 17:05	65206	PRIN_T4	1	1	0	2.1	0	-2.1	0	0	0	0	0	0	0	0
8/9/2024 17:05	55001	NEWP_T1	1	1	0	0.4	0	-0.4	-0.97	-1.2	1	1	0	600	600	0
8/9/2024 17:05	55002	NEWP_T1	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
8/9/2024 17:07	64101	REFR_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
8/9/2024 17:08	64101	REFR_T1	0	0	0	0	0	0	2.2	2.24	0	0	0	0	0	0
8/9/2024 17:09	64101	REFR_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
8/9/2024 17:10	64101	REFR_T1	0	0	0	0	0	0	0.88	0.9	0	0	0	0	0	0
8/9/2024 17:11	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 17:15	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/9/2024 17:17	15202	SFAR_T1	0	0	0	0	0	0	-0.31	-0.31	1	1	0	1200	1200	0
8/9/2024 17:25	57702	PAXT_T1	0	0	0	0	0	0	-0.52	-0.61	0	0	0	0	0	0
8/9/2024 17:29	46206	DANV_T2	28	50	22	0.58	0.42	-0.16	0	0	0	0	0	0	0	0
8/9/2024 17:29	46204	DANV_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
8/9/2024 17:29	46203	DANV_T2	1	2	1	1.4	0	-1.4	-1.39	-1.4	0	0	0	0	0	0
8/9/2024 17:35	46206	DANV_T2	34	59	25	0.44	0.51	0.07	0	0	0	0	0	0	0	0
8/9/2024 17:35	46203	DANV_T2	1	1	0	1	0	-1	-1.39	-1.4	0	0	0	0	0	0
8/9/2024 17:35	46204	DANV_T2	2	3	1	0.95	1.1	0.15	0	0	0	0	0	0	0	0
8/9/2024 17:36	47401	PENS_T1	3	15	12	0.63	0.67	0.04	0.48	0.5	0	0	0	0	0	0
8/9/2024 17:36	47403	PENS_T1	0	71	71	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 17:36	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 17:38	29402	BELT_T1	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
8/9/2024 17:39	53802	MBRG_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 17:39	53803	MBRG_T2	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
8/9/2024 17:44	46206	DANV_T2	34	59	25	0.44	0.51	0.07	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/9/2024 17:44	46203	DANV_T2	1	1	0	1	0	-1	-2.79	-2.87	0	0	0	0	0	0
8/9/2024 17:44	46204	DANV_T2	2	3	1	0.95	1.1	0.15	0	0	0	0	0	0	0	0
8/9/2024 17:45	10705	CATA_T2	0	0	0	0	0	0	-0.58	-0.61	0	0	0	0	0	0
8/9/2024 17:45	46204	DANV_T2	2	3	1	1.35	0	-1.35	0	0	0	0	0	0	0	0
8/9/2024 17:45	46206	DANV_T2	48	62	14	0.56	0.51	-0.05	0	0	0	0	0	0	0	0
8/9/2024 17:45	46203	DANV_T2	1	0	-1	0.1	0	-0.1	-1.4	-1.43	0	0	0	0	0	0
8/9/2024 17:47	61703	ELIZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 17:47	61701	ELIZ_T1	1	1	0	1.4	1.6	0.2	2.06	1.81	0	0	0	0	0	0
8/9/2024 17:50	42902	MIDD_T2	27	27	0	2.17	0.81	-1.36	-0.15	-0.14	0	0	0	0	0	0
8/9/2024 17:50	42901	MIDD_T2	4	3	-1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
8/9/2024 17:53	60502	NMAN_T2	0	0	0	0	0	0.21	0.29	0	0	0	0	0	0	0
8/9/2024 17:53	42902	MIDD_T2	27	27	0	2.17	0.81	-1.36	-0.14	-0.15	0	0	0	0	0	0
8/9/2024 17:53	42901	MIDD_T2	4	3	-1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
8/9/2024 17:54	42901	MIDD_T2	4	3	-1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
8/9/2024 17:54	42902	MIDD_T2	27	27	0	2.17	0.81	-1.36	0	0	0	0	0	0	0	0
8/9/2024 17:58	61701	ELIZ_T1	1	1	0	1.4	1.6	0.2	0.91	0.91	0	0	0	0	0	0
8/9/2024 17:58	61703	ELIZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 18:02	61701	ELIZ_T1	1	1	0	1.4	1.6	0.2	0.91	0.91	0	0	0	0	0	0
8/9/2024 18:02	61703	ELIZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/9/2024 18:06	46903	MNTG_T2	0	1	1	0	0.1	0.1	0.37	0.28	1	1	0	600	600	0
8/9/2024 18:13	59202	THOM_T1	77	85	8	1.86	1.87	0.01	0	0	0	0	0	0	0	0
8/9/2024 18:13	59201	THOM_T1	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
8/9/2024 18:15	46001	BERW_T1	0	0	0	0	0	0	1.14	1.08	0	0	0	0	0	0
8/9/2024 18:16	46206	DANV_T2	39	58	19	0.53	0.49	-0.04	1.9	1.91	2	2	0	2100	2100	0
8/9/2024 18:16	59201	THOM_T1	1	6	5	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
8/9/2024 18:16	59202	THOM_T1	80	92	12	1.97	1.34	-0.63	0	0	0	0	0	0	0	0
8/9/2024 18:16	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 18:18	46001	BERW_T1	0	0	0	0	0	0	1.14	1.08	0	0	0	0	0	0
8/9/2024 18:23	46901	MNTG_T2	0	0	0	0	0	0	-0.59	-0.48	1	1	0	1200	1200	0
8/9/2024 18:23	46903	MNTG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/9/2024 18:33	64503	LAVI_T1	0	0	0	0	0	0	-1.62	-1.66	1	1	0	1200	1200	0
8/9/2024 18:34	64503	LAVI_T1	0	0	0	0	0	0	-4.85	-4.99	3	3	0	3600	3600	0
8/9/2024 18:35	12606	MACA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/9/2024 18:35	12603	MACA_T1	0	3	3	0	0.1	0.1	-0.92	-0.92	0	0	0	0	0	0
8/9/2024 18:35	13303	ORVI_T1	0	0	0	0	0	0	0.25	0.18	0	0	0	0	0	0
8/9/2024 18:38	55101	WERT_T1	0	0	0	0	0	0	-2.47	-2.54	6	6	0	4800	4800	0
8/9/2024 18:39	55101	WERT_T1	0	0	0	0	0	0	-1.23	-1.27	3	3	0	2400	2400	0
8/9/2024 18:43	55101	WERT_T1	0	0	0	0	0	0	-1.23	-1.27	3	3	0	2400	2400	0
8/9/2024 18:43	65005	NEFF_T2	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
8/9/2024 18:43	65002	NEFF_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/9/2024 18:44	55101	WERT_T1	0	0	0	0	0	0	-1.23	-1.27	3	3	0	2400	2400	0
8/9/2024 18:52	40101	HUNT_T2	27	40	13	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
8/9/2024 18:55	59101	WALK_T2	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
8/9/2024 19:05	65602	QVIL_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/9/2024 19:05	65601	QVIL_T2	0	0	0	0	0	0	-0.24	-0.29	1	1	0	900	900	0
8/9/2024 19:05	65604	QVIL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/9/2024 19:15	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 19:15	29402	BELT_T1	1	1	0	7.3	7.7	0.4	0	0	0	0	0	0	0	0
8/9/2024 19:22	53502	EVIL_T2	0	0	0	0	0	0	0.08	0.12	1	1	0	600	600	0
8/9/2024 19:22	53501	EVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/9/2024 20:00	61701	ELIZ_T1	1	1	0	2.3	2.6	0.3	0.83	0.91	0	0	0	0	0	0
8/9/2024 20:42	53501	EVIL_T2	1	1	0	0.4	0.8	0.4	-0.01	-0.01	1	1	0	600	600	0
8/9/2024 20:48	57303	MOAL_T2	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
8/9/2024 20:48	57306	MOAL_T2	0	0	0	0	0	0	-2.66	-2.66	1	1	0	1200	1200	0
8/9/2024 21:00	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 21:00	40302	TAMA_T3	0	0	0	0	0	0	0.08	0.14	0	0	0	0	0	0
8/9/2024 21:24	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 21:25	23901	EFMO_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
8/9/2024 21:38	12002	HATF_T1	0	0	0	0	0	0	-0.97	-0.89	1	1	0	1200	1200	0
8/9/2024 21:39	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 21:43	24702	FLND_T2	0	0	0	0	0	0	1.37	1.09	1	1	0	1200	1200	0
8/9/2024 21:43	61303	EARL_T1	0	0	0	0	0	0	0.37	0.32	0	0	0	0	0	0
8/9/2024 21:44	13303	ORVI_T1	0	0	0	0	0	0	1.39	1.38	0	0	0	0	0	0
8/9/2024 21:49	56802	BENV_T2	0	1	1	0	0.3	0.3	-0.14	-0.95	0	0	0	0	0	0
8/9/2024 21:50	12006	HATF_T1	0	0	0	0	0	0	0.45	0.41	1	1	0	1200	1200	0
8/9/2024 21:52	20602	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 21:52	20601	GRWO_T2	40	49	9	0.43	0.5	0.07	0	0	0	0	0	0	0	0
8/9/2024 21:52	20603	GRWO_T2	0	0	0	0	0	0	0.07	0.07	1	1	0	900	900	0
8/9/2024 21:53	13202	PALM_T2	0	0	0	0	0	0	-1.24	-1.15	3	3	0	3000	3000	0
8/9/2024 21:53	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 21:58	61304	EARL_T1	0	0	0	0	0	0	-0.36	-0.44	1	1	0	600	600	0
8/9/2024 21:58	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 21:59	51702	OBER_T1	2	2	0	2.35	2.4	0.05	-0.42	-0.41	1	1	0	600	600	0
8/9/2024 21:59	24702	FLND_T2	0	0	0	0	0	0	1.09	1.21	1	1	0	1200	1200	0
8/9/2024 22:00	61701	ELIZ_T1	1	1	0	2.8	3	0.2	1.06	0.75	0	0	0	0	0	0
8/9/2024 22:01	29401	BELT_T1	38	4	-34	0.22	0.13	-0.09	0	0	0	0	0	0	0	0
8/9/2024 22:01	29402	BELT_T1	12	8	-4	0.98	1.31	0.33	0	0	0	0	0	0	0	0
8/9/2024 22:04	13201	PALM_T1	3	0	-3	0.97	0	-0.97	-1.53	-1.51	1	1	0	1200	1200	0
8/9/2024 22:04	64903	MILL_T2	3	8	5	0.1	0.13	0.03	0	0	0	0	0	0	0	0
8/9/2024 22:04	20403	ASHF_T2	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
8/9/2024 22:04	20402	ASHF_T2	6	0	-6	0.18	0	-0.18	0	0	0	0	0	0	0	0
8/9/2024 22:04	64902	MILL_T2	0	0	0	0	0	0	-0.21	-0.15	1	1	0	900	900	0
8/9/2024 22:05	65003	NEFF_T2	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
8/9/2024 22:05	63601	LETO_T1	0	0	0	0	0	0	2.56	2.41	1	1	0	600	600	0
8/9/2024 22:05	65001	NEFF_T2	0	0	0	0	0	0	0.73	0.8	1	1	0	1200	1200	0
8/9/2024 22:05	65002	NEFF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/9/2024 22:06	44203	POIN_T2	0	0	0	0	0	0	-0.36	-0.33	2	2	0	2100	2100	0
8/9/2024 22:06	46903	MNTG_T2	2	2	0	0.1	0.1	0	0.15	0.18	1	1	0	600	600	0
8/9/2024 22:06	40801	EXCH_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/9/2024 22:06	65207	PRIN_T4	2	2	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/9/2024 22:06	40802	EXCH_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
8/9/2024 22:06	44202	POIN_T2	1	2	1	2.6	2.9	0.3	0	0	0	0	0	0	0	0
8/9/2024 22:06	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/9/2024 22:06	64904	MILL_T1	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
8/9/2024 22:06	65206	PRIN_T4	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
8/9/2024 22:07	64701	LITI_T1	0	0	0	0	0	0	0.56	0.51	0	0	0	0	0	0
8/9/2024 22:07	54201	PENN_T1	7	3	-4	0.74	1.1	0.36	-0.49	-0.6	0	0	0	0	0	0
8/9/2024 22:07	60801	BUCK_T1	0	0	0	0	0	0	-0.7	-0.7	1	1	0	600	600	0
8/9/2024 22:07	60803	BUCK_T1	0	7	7	0	0.2	0.2	0	0	0	0	0	0	0	0
8/9/2024 22:07	64101	REFR_T1	0	0	0	0	0	0	0.63	0.59	0	0	0	0	0	0
8/9/2024 22:07	54203	PENN_T1	18	17	-1	0.87	0.27	-0.6	0	0	0	0	0	0	0	0
8/9/2024 22:08	41901	REED_T1	10	9	-1	1.22	0.63	-0.59	0	0	0	0	0	0	0	0
8/9/2024 22:08	41902	REED_T1	1	1	0	0.2	0.2	0	0.3	0.3	0	0	0	0	0	0
8/9/2024 22:08	67605	WARW_T1	1	1	0	1	0.6	-0.4	-1.01	-1.22	0	0	0	0	0	0
8/9/2024 22:08	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 22:08	47802	MOCA_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
8/9/2024 22:08	42201	SHEN_T2	0	1	1	0	0	0	0.61	0.6	0	0	0	0	0	0
8/9/2024 22:08	66505	SMAN_T2	0	0	0	0	0	0	0.03	-0.07	3	3	0	2100	2100	0
8/9/2024 22:08	66302	MCGO_T2	0	0	0	0	0	0	-1.24	-1.2	1	1	0	600	600	0
8/9/2024 22:09	20403	ASHF_T2	0	0	0	0	0	0	0.68	0.62	0	0	0	0	0	0
8/9/2024 22:09	40902	JESH_T1	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
8/9/2024 22:09	20402	ASHF_T2	6	0	-6	0.18	0	-0.18	0	0	0	0	0	0	0	0
8/9/2024 22:09	52503	PROG_T2	0	0	0	0	0	0	-0.38	-0.38	1	1	0	900	900	0
8/9/2024 22:09	40901	JESH_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/9/2024 22:09	46203	DANV_T2	0	0	0	0	0	0	-0.29	-0.34	0	0	0	0	0	0
8/9/2024 22:09	66301	MCGO_T2	0	0	0	0	0	0	-1.34	-1.35	0	0	0	0	0	0
8/9/2024 22:09	67505	WEWI_T1	0	0	0	0	0	0	0.5	0.52	1	1	0	900	900	0
8/9/2024 22:09	55101	WERT_T1	0	0	0	0	0	0	-1.07	-1.1	2	2	0	1500	1500	0
8/9/2024 22:09	46206	DANV_T2	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
8/9/2024 22:09	65601	QVIL_T2	0	0	0	0	0	0	-0.55	-0.58	1	1	0	900	900	0
8/9/2024 22:09	53903	HALI_T2	2	2	0	1.6	0.45	-1.15	0	0	0	0	0	0	0	0
8/9/2024 22:09	64101	REFR_T1	0	0	0	0	0	0	0.63	0.59	0	0	0	0	0	0
8/9/2024 22:09	56802	BENV_T2	1	1	0	0.3	0.2	-0.1	-0.96	-0.94	0	0	0	0	0	0
8/9/2024 22:09	53902	HALI_T2	1	1	0	5.5	5	-0.5	0	0	0	0	0	0	0	0
8/9/2024 22:09	64503	LAVI_T1	0	0	0	0	0	0	-0.48	-0.52	1	1	0	1200	1200	0
8/9/2024 22:09	53901	HALI_T2	1	0	-1	0.7	0	-0.7	-0.79	-0.8	0	0	0	0	0	0
8/9/2024 22:10	54203	PENN_T1	18	17	-1	0.87	0.27	-0.6	0	0	0	0	0	0	0	0
8/9/2024 22:10	57702	PAXT_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
8/9/2024 22:10	40802	EXCH_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
8/9/2024 22:10	63303	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/9/2024 22:10	46803	HEPB_T2	7	3	-4	0.25	0.17	-0.08	0	0	0	0	0	0	0	0
8/9/2024 22:10	62106	ELAN_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
8/9/2024 22:10	44301	BEAV_T2	1	0	-1	0.5	0	-0.5	-0.62	-0.59	1	1	0	600	600	0
8/9/2024 22:10	65206	PRIN_T4	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
8/9/2024 22:10	63305	GREE_T1	14	14	0	0.21	0.22	0.01	-3.45	-3.37	2	2	0	1800	1800	0
8/9/2024 22:10	29401	BELT_T1	38	4	-34	0.22	0.13	-0.09	0	0	1	1	0	900	900	0
8/9/2024 22:10	63401	HONY_T1	0	0	0	0	0	0	-0.06	-0.13	1	1	0	600	600	0
8/9/2024 22:10	67805	WLAN_T1	0	16	16	0	0.1	0.1	0	0	0	0	0	0	0	0
8/9/2024 22:10	56501	ROCK_T2	2	3	1	3.5	2.6	-0.9	0	0	0	0	0	0	0	0
8/9/2024 22:10	54201	PENN_T1	7	3	-4	0.74	1.1	0.36	-0.49	-0.6	0	0	0	0	0	0
8/9/2024 22:10	56504	ROCK_T2	0	0	0	0	0	0	-0.7	-0.74	0	0	0	0	0	0
8/9/2024 22:10	40801	EXCH_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/9/2024 22:10	46801	HEPB_T2	30	17	-13	0.33	0.25	-0.08	0.01	0	0	0	0	0	0	0
8/9/2024 22:10	29402	BELT_T1	12	8	-4	0.98	1.31	0.33	0	0	0	0	0	0	0	0
8/9/2024 22:10	60502	NMAN_T2	0	0	0	0	0	0	-0.01	-0.08	0	0	0	0	0	0
8/9/2024 22:10	67803	WLAN_T1	0	0	0	0	0	0	-1.14	-1.15	0	0	0	0	0	0
8/9/2024 22:10	46206	DANV_T2	1	1	0	0.8	0.3	-0.5	1.62	1.68	2	2	0	2100	2100	0
8/9/2024 22:10	29301	DAPP_T1	1	1	0	9.6	9.5	-0.1	0	0	1	1	0	600	600	0
8/9/2024 22:10	65207	PRIN_T4	2	2	0	0.5	0.2	-0.3	0	0	2	2	0	1800	1800	0
8/9/2024 22:10	46001	BERW_T1	0	0	0	0	0	0	0.95	0.91	0	0	0	0	0	0
8/9/2024 22:11	12606	MACA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 22:11	41602	CLEV_T1	0	2	2	0	0	0	0	0	1	1	0	600	600	0
8/9/2024 22:11	56501	ROCK_T2	2	3	1	3.5	2.6	-0.9	-0.83	-0.87	0	0	0	0	0	0
8/9/2024 22:11	15202	SFAR_T1	0	0	0	0	0	0	-0.5	-0.54	1	1	0	1200	1200	0
8/9/2024 22:11	46803	HEPB_T2	7	3	-4	0.25	0.17	-0.08	0.54	0.52	0	0	0	0	0	0
8/9/2024 22:11	60502	NMAN_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
8/9/2024 22:11	12603	MACA_T1	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
8/9/2024 22:11	44202	POIN_T2	1	2	1	2.6	2.9	0.3	0	0	0	0	0	0	0	0
8/9/2024 22:11	45501	DERR_T2	0	0	0	0	0	0	-0.32	-0.25	2	2	0	1800	1800	0
8/9/2024 22:11	46801	HEPB_T2	30	17	-13	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
8/9/2024 22:11	64101	REFR_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
8/9/2024 22:11	47401	PENS_T1	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
8/9/2024 22:11	46001	BERW_T1	0	0	0	0	0	0	0.95	0.91	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/9/2024 22:11	44203	POIN_T2	0	0	0	0	0	0	-0.33	-0.48	2	2	0	2100	2100	0
8/9/2024 22:12	54201	PENN_T1	7	3	-4	0.74	1.1	0.36	0	0	0	0	0	0	0	0
8/9/2024 22:12	56802	BENV_T2	1	1	0	0.3	0.2	-0.1	-1.91	-1.87	0	0	0	0	0	0
8/9/2024 22:12	56501	ROCK_T2	2	3	1	3.5	2.6	-0.9	-0.83	-0.87	0	0	0	0	0	0
8/9/2024 22:12	46206	DANV_T2	1	1	0	0.8	0.3	-0.5	1.62	1.68	2	2	0	2100	2100	0
8/9/2024 22:12	57306	MOAL_T2	0	0	0	0	0	0	-5.43	-5.53	2	2	0	2400	2400	0
8/9/2024 22:12	46203	DANV_T2	0	0	0	0	0	0	-0.29	-0.34	0	0	0	0	0	0
8/9/2024 22:12	54203	PENN_T1	18	17	-1	0.87	0.27	-0.6	0.54	0.51	0	0	0	0	0	0
8/9/2024 22:12	42701	AUGU_T1	1	1	0	0.7	0.2	-0.5	0	0	2	2	0	1800	1800	0
8/9/2024 22:12	20403	ASHF_T2	0	0	0	0	0	0	0.68	0.62	0	0	0	0	0	0
8/9/2024 22:12	55508	HERS_T2	2	2	0	1.35	1.1	-0.25	-4.55	-4.57	2	2	0	2400	2400	0
8/9/2024 22:12	57303	MOAL_T2	1	1	0	7.7	7.9	0.2	0	0	0	0	0	0	0	0
8/9/2024 22:12	20402	ASHF_T2	6	0	-6	0.18	0	-0.18	0	0	0	0	0	0	0	0
8/9/2024 22:12	64101	REFR_T1	0	0	0	0	0	0	0.94	0.88	0	0	0	0	0	0
8/9/2024 22:13	67605	WARW_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
8/9/2024 22:13	16102	BING_T2	0	0	0	0	0	0	-0.61	-0.62	1	1	0	1200	1200	0
8/9/2024 22:13	45501	DERR_T2	0	0	0	0	0	0	-0.32	-0.25	2	2	0	1800	1800	0
8/9/2024 22:13	46203	DANV_T2	0	0	0	0	0	0	-0.58	-0.67	0	0	0	0	0	0
8/9/2024 22:13	52402	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/9/2024 22:13	46206	DANV_T2	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
8/9/2024 22:13	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 22:13	63501	HEID_TBK1-2	56	55	-1	1.53	2.13	0.6	0.02	0.01	2	2	0	1800	1800	0
8/9/2024 22:13	56802	BENV_T2	1	1	0	0.3	0.2	-0.1	-0.96	-0.94	0	0	0	0	0	0
8/9/2024 22:13	53903	HALI_T2	2	2	0	1.6	0.45	-1.15	0	0	0	0	0	0	0	0
8/9/2024 22:13	53901	HALI_T2	1	0	-1	0.7	0	-0.7	-0.79	-0.8	0	0	0	0	0	0
8/9/2024 22:13	52404	GRPA_T2	0	0	0	0	0	0	0.04	-0.01	0	0	0	0	0	0
8/9/2024 22:13	55101	WERT_T1	0	0	0	0	0	0	-1.07	-1.1	2	2	0	1500	1500	0
8/9/2024 22:13	64503	LAVI_T1	0	0	0	0	0	0	-0.48	-0.52	1	1	0	1200	1200	0
8/9/2024 22:13	56504	ROCK_T2	0	0	0	0	0	0	-0.7	-0.74	0	0	0	0	0	0
8/9/2024 22:13	56501	ROCK_T2	2	3	1	3.5	2.6	-0.9	-0.83	-0.87	0	0	0	0	0	0
8/9/2024 22:13	11101	EGYP_T1	3	0	-3	3.33	0	-3.33	0	0	0	0	0	0	0	0
8/9/2024 22:13	55508	HERS_T2	2	2	0	1.35	1.1	-0.25	0	0	0	0	0	0	0	0
8/9/2024 22:13	53902	HALI_T2	1	1	0	5.5	5	-0.5	0	0	0	0	0	0	0	0
8/9/2024 22:13	52403	GRPA_T2	19	26	7	0.44	0.39	-0.05	0	0	0	0	0	0	0	0
8/9/2024 22:13	11103	EGYP_T1	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
8/9/2024 22:13	64101	REFR_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
8/9/2024 22:14	65205	PRIN_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
8/9/2024 22:14	63305	GREE_T1	14	14	0	0.21	0.22	0.01	0	0	0	0	0	0	0	0
8/9/2024 22:14	63304	GREE_T1	0	0	0	0	0	0	-1.33	-1.37	0	0	0	0	0	0
8/9/2024 22:14	53601	DALM_T2	1	1	0	0.5	0.9	0.4	-0.01	-0.05	0	0	0	0	0	0
8/9/2024 22:14	12606	MACA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 22:14	64503	LAVI_T1	0	0	0	0	0	0	-0.48	-0.52	1	1	0	1200	1200	0
8/9/2024 22:14	46102	MACI_T1	0	0	0	0	0	0	0.93	0.94	0	0	0	0	0	0
8/9/2024 22:14	63303	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/9/2024 22:14	12602	MACA_T1	0	0	0	0	0	0	-0.98	-0.93	0	0	0	0	0	0
8/9/2024 22:14	64305	LINC_T1	0	1	1	0	0	0	-0.23	-0.24	0	0	0	0	0	0
8/9/2024 22:14	52501	PROG_T1	0	0	0	0	0	0	0.41	0.38	1	1	0	300	300	0
8/9/2024 22:15	67805	WLAN_T1	0	16	16	0	0.1	0.1	0	0	0	0	0	0	0	0
8/9/2024 22:15	54506	ENOL_T2	1	1	0	1	0	-1	-0.11	-0.13	1	1	0	600	600	0
8/9/2024 22:15	59202	THOM_T1	0	7	7	0	0.16	0.16	0	0	0	0	0	0	0	0
8/9/2024 22:15	67803	WLAN_T1	0	0	0	0	0	0	-1.14	-1.15	0	0	0	0	0	0
8/9/2024 22:15	53903	HALI_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
8/9/2024 22:15	63303	GREE_T1	0	0	0	0	0	0	0.35	0.24	1	1	0	600	600	0
8/9/2024 22:15	64101	REFR_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
8/9/2024 22:15	63305	GREE_T1	13	14	1	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
8/9/2024 22:15	40901	JESH_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/9/2024 22:15	56501	ROCK_T2	1	3	2	7.7	2.8	-4.9	-0.83	-0.87	0	0	0	0	0	0
8/9/2024 22:15	55002	NEWP_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/9/2024 22:15	21206	ECAR_T2	2	1	-1	3.4	6.9	3.5	0.4	0.37	0	0	0	0	0	0
8/9/2024 22:15	40902	JESH_T1	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
8/9/2024 22:15	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 22:15	53902	HALI_T2	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
8/9/2024 22:15	59201	THOM_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
8/9/2024 22:15	53901	HALI_T2	0	0	0	0	0	0	-1.57	-1.6	0	0	0	0	0	0
8/9/2024 22:15	55001	NEWP_T1	0	0	0	0	0	0	-0.62	-0.62	1	1	0	600	600	0
8/9/2024 22:16	44801	EDAN_T2	2	10	8	0.45	0.29	-0.16	-1.39	-1.38	0	0	0	0	0	0
8/9/2024 22:16	64101	REFR_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
8/9/2024 22:16	56501	ROCK_T2	1	3	2	7.7	2.8	-4.9	-0.83	-0.87	0	0	0	0	0	0
8/9/2024 22:16	44203	POIN_T2	0	0	0	0	0	0	-0.33	-0.48	2	2	0	2100	2100	0
8/9/2024 22:16	42701	AUGU_T1	1	1	0	1.1	0	-1.1	0	0	2	2	0	1800	1800	0
8/9/2024 22:16	44202	POIN_T2	2	1	-1	1.6	2.7	1.1	0	0	0	0	0	0	0	0
8/9/2024 22:16	59101	WALK_T2	0	0	0	0	0	0	-0.14	-0.21	0	0	0	0	0	0
8/9/2024 22:17	63305	GREE_T1	13	14	1	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
8/9/2024 22:17	66302	MCGO_T2	0	0	0	0	0	0	-1.24	-1.2	1	1	0	600	600	0
8/9/2024 22:17	56501	ROCK_T2	1	3	2	7.7	2.8	-4.9	-0.83	-0.87	0	0	0	0	0	0
8/9/2024 22:17	46206	DANV_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/9/2024 22:17	56802	BENV_T2	0	1	1	0	0.4	0.4	-0.96	-0.94	0	0	0	0	0	0
8/9/2024 22:17	63304	GREE_T1	0	0	0	0	0	0	-1.33	-1.37	0	0	0	0	0	0
8/9/2024 22:17	51306	WIND_T2	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
8/9/2024 22:17	64501	LAVI_T1	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
8/9/2024 22:17	42503	ALTA_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
8/9/2024 22:17	59202	THOM_T1	0	7	7	0	0.16	0.16	0	0	0	0	0	0	0	0
8/9/2024 22:17	59201	THOM_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
8/9/2024 22:17	46101	MACI_T2	0	0	0	0	0	0	-0.59	-0.53	1	1	0	1200	1200	0
8/9/2024 22:17	11103	EGYP_T1	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
8/9/2024 22:17	46203	DANV_T2	0	0	0	0	0	0	-0.58	-0.67	0	0	0	0	0	0
8/9/2024 22:17	45501	DERR_T2	0	0	0	0	0	0	-0.32	-0.25	2	2	0	1800	1800	0
8/9/2024 22:17	40101	HUNT_T2	6	3	-3	0.78	0.15	-0.63	-0.37	-0.42	0	0	0	0	0	0
8/9/2024 22:17	13904	SEID_T1	0	2	2	0	0	0	0.59	0.61	0	0	0	0	0	0
8/9/2024 22:18	11101	EGYP_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
8/9/2024 22:18	52403	GRPA_T2	12	26	14	0.48	0.55	0.07	-0.54	-0.53	0	0	0	0	0	0
8/9/2024 22:18	51204	MTON_T2	0	0	0	0	0	0	-1.18	-1.18	2	2	0	1500	1500	0
8/9/2024 22:18	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 22:18	16006	DORN_T2	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
8/9/2024 22:19	42903	MIDD_T2	2	2	0	0.65	0.9	0.25	-1.09	-1.29	1	1	0	1200	1200	0
8/9/2024 22:19	45802	HEGI_T2	11	48	37	0.33	1.56	1.23	0.99	0.5	0	0	0	0	0	0
8/9/2024 22:19	55101	WERT_T1	0	0	0	0	0	0	-3.2	-3.29	6	6	0	4500	4500	0
8/9/2024 22:19	56802	BENV_T2	0	1	1	0	0.4	0.4	-0.96	-0.94	0	0	0	0	0	0
8/9/2024 22:20	44801	EDAN_T2	2	10	8	0.45	0.29	-0.16	-1.39	-1.38	0	0	0	0	0	0
8/9/2024 22:20	44301	BEAV_T2	0	0	0	0	0	0	-0.62	-0.59	1	1	0	600	600	0
8/9/2024 22:20	58401	MORO_T1	0	0	0	0	0	0	-0.65	-0.69	1	1	0	600	600	0
8/9/2024 22:20	64503	LAVI_T1	0	0	0	0	0	0	-0.48	-0.52	1	1	0	1200	1200	0
8/9/2024 22:20	40101	HUNT_T2	6	3	-3	0.78	0.15	-0.63	-0.37	-0.42	0	0	0	0	0	0
8/9/2024 22:20	40802	EXCH_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
8/9/2024 22:21	45602	WOOL_T1	5	7	2	0.14	0.2	0.06	1.05	0.99	0	0	0	0	0	0
8/9/2024 22:21	52403	GRPA_T2	12	26	14	0.48	0.55	0.07	-0.54	-0.53	0	0	0	0	0	0
8/9/2024 22:21	46901	MNTG_T2	0	0	0	0	0	0	-0.74	-0.72	1	1	0	1200	1200	0
8/9/2024 22:21	56501	ROCK_T2	1	3	2	7.7	2.8	-4.9	-0.83	-0.87	0	0	0	0	0	0
8/9/2024 22:21	58202	NEWV_T1	4	8	4	0.3	0.6	0.3	-0.13	-0.14	0	0	0	0	0	0
8/9/2024 22:21	46903	MNTG_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/9/2024 22:21	10705	CATA_T2	0	0	0	0	0	0	-0.81	-0.74	0	0	0	0	0	0
8/9/2024 22:22	49803	UNIV_T1	1	1	0	5.5	5.2	-0.3	-1.95	-1.93	0	0	0	0	0	0
8/9/2024 22:23	49803	UNIV_T1	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
8/9/2024 22:23	16006	DORN_T2	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
8/9/2024 22:23	10502	CRAC_T1	0	0	0	0	0	0	1.77	1.72	0	0	0	0	0	0
8/9/2024 22:23	55101	WERT_T1	0	0	0	0	0	0	-1.1	-1.09	2	2	0	1500	1500	0
8/9/2024 22:23	42903	MIDD_T2	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
8/9/2024 22:23	49804	UNIV_T1	0	0	0	0	0	0	0.78	0.74	0	0	0	0	0	0
8/9/2024 22:23	58202	NEWV_T1	4	8	4	0.3	0.6	0.3	-0.14	-0.13	0	0	0	0	0	0
8/9/2024 22:23	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 22:23	44801	EDAN_T2	2	10	8	0.45	0.29	-0.16	-1.38	-1.42	0	0	0	0	0	0
8/9/2024 22:23	45402	WBLO_T2	63	81	18	0.34	0.37	0.03	-1.26	-1.27	1	1	0	900	900	0
8/9/2024 22:24	42902	MIDD_T2	0	0	0	0	0	0	-1.06	-1.1	1	1	0	600	600	0
8/9/2024 22:24	42903	MIDD_T2	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
8/9/2024 22:25	52403	GRPA_T2	12	26	14	0.48	0.55	0.07	-0.53	-0.59	0	0	0	0	0	0
8/9/2024 22:25	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 22:25	44301	BEAV_T2	0	0	0	0	0	0	-0.59	-0.66	1	1	0	600	600	0
8/9/2024 22:25	58401	MORO_T1	0	0	0	0	0	0	-0.69	-0.69	1	1	0	600	600	0
8/9/2024 22:26	67103	SPRI_T1	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
8/9/2024 22:26	53501	EVIL_T2	2	1	-1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
8/9/2024 22:26	55002	NEWP_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/9/2024 22:26	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 22:26	53502	EVIL_T2	0	0	0	0	0	0	0	-0.06	1	1	0	600	600	0
8/9/2024 22:26	58402	MORO_T1	0	0	0	0	0	0	-0.28	-0.33	3	3	0	1950	1950	0
8/9/2024 22:26	55001	NEWP_T1	0	0	0	0	0	0	-0.62	-0.61	1	1	0	600	600	0
8/9/2024 22:27	59101	WALK_T2	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
8/9/2024 22:27	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2024 22:28	42903	MIDD_T2	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
8/9/2024 22:28	42902	MIDD_T2	0	0	0	0	0	0	-1.06	-1.1	1	1	0	600	600	0
8/9/2024 22:37	13202	PALM_T2	0	0	0	0	0	0	-1.61	-1.51	3	3	0	3000	3000	0
8/9/2024 23:11	64101	REFR_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
8/9/2024 23:17	14201	EALL_T1	0	0	0	0	0	0	0.41	0.26	0	0	0	0	0	0
8/9/2024 23:26	64904	MILL_T1	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
8/9/2024 23:32	13503	MCMI_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
8/10/2024 0:07	66505	SMAN_T2	0	0	0	0	0	0	-0.3	0.18	3	2	-1	2100	1500	-600
8/10/2024 2:38	65603	QVIL_T2	0	0	0	0	0	0	-0.84	-0.75	0	0	0	0	0	0
8/10/2024 6:44	11507	FREE_T2	0	0	0	0	0	0	0.69	0.4	0	0	0	0	0	0
8/10/2024 6:53	15202	SFAR_T1	0	0	0	0	0	0	0.04	-0.01	1	1	0	1200	1200	0
8/10/2024 7:02	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/10/2024 7:02	29402	BELT_T1	1	1	0	7.4	7.1	-0.3	0	0	0	0	0	0	0	0
8/10/2024 7:04	12605	MACA_T1	0	0	0	0	0	0	-0.81	-0.76	0	0	0	0	0	0
8/10/2024 7:06	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 7:07	14502	SCHO_T1	1	1	0	0.1	0.1	0	0.38	0.43	0	0	0	0	0	0
8/10/2024 7:09	14502	SCHO_T1	1	1	0	0.1	0.1	0	0.38	0.43	0	0	0	0	0	0
8/10/2024 7:17	51402	LYKE_T1	21	13	-8	0.17	0.15	-0.02	-0.83	-0.83	0	0	0	0	0	0
8/10/2024 7:17	54203	PENN_T1	18	18	0	0.9	0.64	-0.26	0.2	0.18	0	0	0	0	0	0
8/10/2024 7:17	54201	PENN_T1	9	7	-2	0.81	0.84	0.03	0	0	0	0	0	0	0	0
8/10/2024 7:20	12605	MACA_T1	0	0	0	0	0	0	-0.76	-0.71	0	0	0	0	0	0
8/10/2024 7:29	16301	ALPA_T1	1	0	-1	0.2	0	-0.2	-0.55	-0.42	0	0	0	0	0	0
8/10/2024 7:30	12006	HATF_T1	0	0	0	0	0	0	0.82	0.84	0	0	0	0	0	0
8/10/2024 7:31	51402	LYKE_T1	13	5	-8	0.15	0.12	-0.03	-0.83	-0.83	0	0	0	0	0	0
8/10/2024 7:32	16301	ALPA_T1	0	0	0	0	0	0	-0.27	-0.21	0	0	0	0	0	0
8/10/2024 7:42	20102	AVOC_T1	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/10/2024 7:44	40101	HUNT_T2	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
8/10/2024 7:46	23001	SAJO_T1	0	0	0	0	0	0	0.19	0.16	0	0	0	0	0	0
8/10/2024 7:49	44201	POIN_T1	0	0	0	0	0	0	-3.43	-3.45	4	4	0	4200	4200	0
8/10/2024 7:51	42201	SHEN_T2	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
8/10/2024 8:03	51402	LYKE_T1	0	0	0	0	0	0	-0.83	-0.8	0	0	0	0	0	0
8/10/2024 8:21	51402	LYKE_T1	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
8/10/2024 8:21	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 8:25	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 8:25	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 8:26	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 8:27	44301	BEAV_T2	0	0	0	0	0	0	-2.23	-2.26	2	2	0	1200	1200	0
8/10/2024 8:29	63401	HONY_T1	0	0	0	0	0	0	-0.06	-0.06	1	1	0	600	600	0
8/10/2024 8:29	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 8:31	63403	HONY_T2	1	1	0	0.1	0.2	0.1	-0.44	-0.42	1	1	0	600	600	0
8/10/2024 8:34	25503	MADI_T1	43	9	-34	0.18	0.17	-0.01	-0.79	-0.76	0	0	0	0	0	0
8/10/2024 8:34	25501	MADI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/10/2024 8:37	63401	HONY_T1	0	0	0	0	0	0	-0.06	0.05	1	1	0	600	600	0
8/10/2024 8:37	41902	REED_T1	3	4	1	0.5	0.7	0.2	0.99	0.95	0	0	0	0	0	0
8/10/2024 8:42	41902	REED_T1	3	4	1	0.5	0.7	0.2	0.99	0.95	0	0	0	0	0	0
8/10/2024 8:42	46206	DANV_T2	6	24	18	1.1	0.6	-0.5	1.51	1.51	2	2	0	2100	2100	0
8/10/2024 8:42	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 8:47	40602	PIGR_T1	1	1	0	1.6	1	-0.6	-0.5	-0.43	1	1	0	600	600	0
8/10/2024 8:48	29402	BELT_T1	1	5	4	8.5	1.96	-6.54	0	0	0	0	0	0	0	0
8/10/2024 8:48	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/10/2024 8:50	64101	REFR_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
8/10/2024 8:51	64101	REFR_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
8/10/2024 8:52	64101	REFR_T1	0	0	0	0	0	0	0.36	0.42	0	0	0	0	0	0
8/10/2024 8:53	64101	REFR_T1	0	0	0	0	0	0	0.53	0.62	0	0	0	0	0	0
8/10/2024 8:54	64101	REFR_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
8/10/2024 8:58	41902	REED_T1	4	1	-3	1.1	0.7	-0.4	0.95	0.92	0	0	0	0	0	0
8/10/2024 8:58	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 8:58	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 8:58	20403	ASHF_T2	0	0	0	0	0	0	0.98	1.01	0	0	0	0	0	0
8/10/2024 8:58	20401	ASHF_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/10/2024 9:03	13503	MCMI_T2	1	1	0	0.1	0.2	0.1	-0.84	-0.8	0	0	0	0	0	0
8/10/2024 9:05	44203	POIN_T2	0	0	0	0	0	0	0.44	0.46	1	1	0	900	900	0
8/10/2024 9:06	55002	NEWP_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
8/10/2024 9:06	55001	NEWP_T1	0	0	0	0	0	0	-0.71	-0.71	1	1	0	600	600	0
8/10/2024 9:07	55002	NEWP_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
8/10/2024 9:07	55001	NEWP_T1	0	0	0	0	0	0	-0.71	-0.67	1	1	0	600	600	0
8/10/2024 9:09	10701	CATA_T2	0	0	0	0	0	0	-0.46	-0.42	0	0	0	0	0	0
8/10/2024 9:09	10702	CATA_T2	0	0	0	0	0	0	-1.21	-1.11	0	0	0	0	0	0
8/10/2024 9:11	51904	COPA_T1	5	5	0	0.66	0.5	-0.16	0	0	0	0	0	0	0	0
8/10/2024 9:11	51902	COPA_T1	0	0	0	0	0	0	-1.59	-1.6	1	1	0	1200	1200	0
8/10/2024 9:12	51902	COPA_T1	0	0	0	0	0	0	-1.59	-1.6	1	1	0	1200	1200	0
8/10/2024 9:12	10702	CATA_T2	0	0	0	0	0	0	-0.61	-0.55	0	0	0	0	0	0
8/10/2024 9:12	56501	ROCK_T2	1	2	1	2.9	5.25	2.35	-1.08	-1	0	0	0	0	0	0
8/10/2024 9:12	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 9:12	10705	CATA_T2	0	0	0	0	0	0	-0.91	-0.83	0	0	0	0	0	0
8/10/2024 9:12	10704	CATA_T2	0	0	0	0	0	0	-0.21	-0.16	2	2	0	2400	2400	0
8/10/2024 9:12	51904	COPA_T1	5	5	0	0.66	0.5	-0.16	0	0	0	0	0	0	0	0
8/10/2024 9:13	10702	CATA_T2	0	0	0	0	0	0	-0.61	-0.55	0	0	0	0	0	0
8/10/2024 9:13	61302	EARL_T1	0	0	0	0	0	0	-0.45	-0.31	3	3	0	2700	2700	0
8/10/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-2.72	-2.49	0	0	0	0	0	0
8/10/2024 9:13	10701	CATA_T2	0	0	0	0	0	0	-0.46	-0.42	0	0	0	0	0	0
8/10/2024 9:13	10707	CATA_T2	0	0	0	0	0	0	1.58	1.46	0	0	0	0	0	0
8/10/2024 9:13	10704	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 9:14	56601	HAMP_T1	0	0	0	0	0	0	-1.33	-1.23	0	0	0	0	0	0
8/10/2024 9:14	10702	CATA_T2	0	0	0	0	0	0	-1.21	-1.11	0	0	0	0	0	0
8/10/2024 9:14	53601	DALM_T2	0	0	0	0	0	0	-0.05	-0.02	0	0	0	0	0	0
8/10/2024 9:14	10703	CATA_T2	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
8/10/2024 9:14	13101	NHAM_T1	0	0	0	0	0	0	-2.28	-3.99	2	4	2	2400	4200	1800
8/10/2024 9:14	56501	ROCK_T2	1	2	1	2.9	5.25	2.35	-1.08	-1	0	0	0	0	0	0
8/10/2024 9:14	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 9:14	61301	EARL_T1	0	0	0	0	0	0	-1.01	-1.02	2	2	0	1800	1800	0
8/10/2024 9:14	10707	CATA_T2	0	0	0	0	0	0	0.79	0.73	0	0	0	0	0	0
8/10/2024 9:14	13104	NHAM_T1	0	9	9	0	0.3	0.3	0	0	0	0	0	0	0	0
8/10/2024 9:14	10901	COOP_T2	0	0	0	0	0	0	-0.04	-0.07	1	1	0	1200	1200	0
8/10/2024 9:15	10705	CATA_T2	0	0	0	0	0	0	-3.62	-3.32	0	0	0	0	0	0
8/10/2024 9:15	10703	CATA_T2	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
8/10/2024 9:15	10702	CATA_T2	0	0	0	0	0	0	-0.61	-0.55	0	0	0	0	0	0
8/10/2024 9:16	10705	CATA_T2	0	0	0	0	0	0	-0.91	-0.83	0	0	0	0	0	0
8/10/2024 9:16	56501	ROCK_T2	1	1	0	2	0	-2	-1.08	-1	0	0	0	0	0	0
8/10/2024 9:17	11507	FREE_T2	0	2	2	0	0.1	0.1	0.62	0.65	0	0	0	0	0	0
8/10/2024 9:19	40101	HUNT_T2	1	1	0	0.4	0.7	0.3	-0.49	-0.45	0	0	0	0	0	0
8/10/2024 9:19	64305	LINC_T1	1	1	0	0.7	0.7	0	-0.06	-0.23	0	0	0	0	0	0
8/10/2024 9:21	66504	SMAN_T2	0	1	1	0	0	0	-2.45	-2.21	2	2	0	2400	2400	0
8/10/2024 9:22	65901	SAKR_T2	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
8/10/2024 9:22	66504	SMAN_T2	0	1	1	0	0	0	-1.11	-1.02	1	1	0	1200	1200	0
8/10/2024 9:22	65902	SAKR_T2	0	0	0	0	0	0	-0.43	-0.41	1	1	0	300	300	0
8/10/2024 9:24	11102	EGYP_T1	3	4	1	1.7	1.07	-0.63	0	0	0	0	0	0	0	0
8/10/2024 9:24	42201	SHEN_T2	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
8/10/2024 9:24	45802	HEGI_T2	8	11	3	0.2	0.33	0.13	0.32	0.43	0	0	0	0	0	0
8/10/2024 9:24	11101	EGYP_T1	1	4	3	1.8	1.3	-0.5	0	0	0	0	0	0	0	0
8/10/2024 9:24	41902	REED_T1	1	1	0	0.9	0.3	-0.6	0.93	1.02	0	0	0	0	0	0
8/10/2024 9:24	11104	EGYP_T1	1	2	1	0.5	0	-0.5	1.81	1.9	0	0	0	0	0	0
8/10/2024 9:26	45802	HEGI_T2	8	11	3	0.2	0.33	0.13	0.32	0.43	0	0	0	0	0	0
8/10/2024 9:27	45501	DERR_T2	0	2	2	0	0.1	0.1	-0.38	-0.35	2	2	0	1800	1800	0
8/10/2024 9:28	45501	DERR_T2	0	2	2	0	0.1	0.1	-0.38	-0.35	2	2	0	1800	1800	0
8/10/2024 9:29	46206	DANV_T2	39	58	19	0.52	0.46	-0.06	1.45	1.48	2	2	0	2100	2100	0
8/10/2024 9:29	22903	HAIW_T1	11	13	2	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
8/10/2024 9:29	22901	HAIW_T1	0	0	0	0	0	0	-0.51	-0.44	1	1	0	1200	1200	0
8/10/2024 9:29	46204	DANV_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/10/2024 9:35	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/10/2024 9:35	29402	BELT_T1	1	1	0	8.6	8.8	0.2	0	0	0	0	0	0	0	0
8/10/2024 9:35	48302	ORWI_T2	1	2	1	0.2	0.45	0.25	0.13	-0.43	0	0	0	0	0	0
8/10/2024 9:37	13905	SEID_T1	0	0	0	0	0	0	-0.57	-0.61	1	1	0	1200	1200	0
8/10/2024 9:37	48302	ORWI_T2	1	2	1	0.2	0.45	0.25	-0.43	-0.43	0	0	0	0	0	0
8/10/2024 9:47	47403	PENS_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
8/10/2024 9:47	47401	PENS_T1	2	3	1	0.75	0	-0.75	1.23	1.25	0	0	0	0	0	0
8/10/2024 9:48	47403	PENS_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
8/10/2024 9:48	47401	PENS_T1	2	3	1	0.75	0	-0.75	3.68	3.76	0	0	0	0	0	0
8/10/2024 9:50	25402	LAHA_T2	0	0	0	0	0	0	-0.52	-0.29	0	0	0	0	0	0
8/10/2024 9:51	66703	STRA_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
8/10/2024 9:52	66505	SMAN_T2	0	0	0	0	0	0	0.15	-0.07	4	4	0	2300	2300	0
8/10/2024 9:54	20401	ASHF_T2	2	4	2	0.85	0.6	-0.25	0	0	0	0	0	0	0	0
8/10/2024 9:54	20403	ASHF_T2	0	0	0	0	0	0	0.58	0.66	0	0	0	0	0	0
8/10/2024 9:56	41902	REED_T1	1	3	2	0.3	0.2	-0.1	1.03	1.06	0	0	0	0	0	0
8/10/2024 9:58	20403	ASHF_T2	0	0	0	0	0	0	0.58	0.66	0	0	0	0	0	0
8/10/2024 9:58	20401	ASHF_T2	2	4	2	0.85	0.6	-0.25	0	0	0	0	0	0	0	0
8/10/2024 10:00	66703	STRA_T1	0	0	0	0	0	0	-0.41	-0.29	0	0	0	0	0	0
8/10/2024 10:00	67503	WEWI_T2	1	1	0	4.4	4.1	-0.3	-0.43	-0.41	0	0	0	0	0	0
8/10/2024 10:00	63401	HONY_T1	0	0	0	0	0	0	0	0.5	2	2	0	1200	1200	0
8/10/2024 10:00	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/10/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-1.54	-1.38	2	2	0	2100	2100	0
8/10/2024 10:00	40505	CRES_T1	3	3	0	4.4	4.2	-0.2	0.59	0.6	0	0	0	0	0	0
8/10/2024 10:00	20601	GRWO_T2	3	28	25	0.5	0.45	-0.05	0.82	0.85	0	0	0	0	0	0
8/10/2024 10:00	63601	LETO_T1	0	0	0	0	0	0	2.24	2.24	1	1	0	600	600	0
8/10/2024 10:00	63403	HONY_T2	0	0	0	0	0	0	0.83	0.83	1	1	0	600	600	0
8/10/2024 10:00	56802	BENV_T2	0	0	0	0	0	0	-1.1	-1.05	0	0	0	0	0	0
8/10/2024 10:00	55101	WERT_T1	0	0	0	0	0	0	-1.55	-1.33	3	3	0	2400	2400	0
8/10/2024 10:00	52503	PROG_T2	0	0	0	0	0	0	-0.27	-0.35	1	1	0	900	900	0
8/10/2024 10:00	29402	BELT_T1	1	3	2	8.4	2.93	-5.47	0	0	0	0	0	0	0	0
8/10/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
8/10/2024 10:02	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	1	1	0	450	450
8/10/2024 10:03	47403	PENS_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
8/10/2024 10:03	53802	MBRG_T2	0	0	0	0	0	0	-0.9	-0.82	0	0	0	0	0	0
8/10/2024 10:03	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 10:03	47401	PENS_T1	3	2	-1	0.27	0	-0.27	1.25	1.32	0	0	0	0	0	0
8/10/2024 10:04	66703	STRA_T1	0	0	0	0	0	0	-0.41	-0.29	0	0	0	0	0	0
8/10/2024 10:06	42801	SELI_T1	0	0	0	0	0	0	-1.66	-1.62	1	1	0	1200	1200	0
8/10/2024 10:08	45802	HEGI_T2	0	39	39	0	0.69	0.69	0.29	0.25	1	1	0	300	300	0
8/10/2024 10:08	66505	SMAN_T2	0	0	0	0	0	0	-0.07	0.08	4	4	0	2300	2300	0
8/10/2024 10:08	66504	SMAN_T2	0	0	0	0	0	0	-2.06	-1.84	2	2	0	2400	2400	0
8/10/2024 10:09	42302	MOWR_T2	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
8/10/2024 10:09	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 10:09	16103	BING_T2	3	3	0	0.37	0.1	-0.27	-0.64	-0.55	1	1	0	600	600	0
8/10/2024 10:09	44203	POIN_T2	0	4	4	0	0	0	1.01	1.5	2	2	0	1800	1800	0
8/10/2024 10:09	66504	SMAN_T2	0	0	0	0	0	0	-1.03	-0.92	1	1	0	1200	1200	0
8/10/2024 10:09	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 10:09	16101	BING_T2	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/10/2024 10:10	20401	ASHF_T2	4	2	-2	0.6	0.6	0	0	0	0	0	0	0	0	0
8/10/2024 10:10	67603	WARW_T1	0	1	1	0	0	0	0.15	0.2	0	0	0	0	0	0
8/10/2024 10:10	42503	ALTA_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
8/10/2024 10:10	16103	BING_T2	3	3	0	0.37	0.1	-0.27	0	0	0	0	0	0	0	0
8/10/2024 10:10	20402	ASHF_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 10:10	16102	BING_T2	0	1	1	0	0.2	0.2	-0.49	-0.36	1	1	0	1200	1200	0
8/10/2024 10:10	16101	BING_T2	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/10/2024 10:10	20403	ASHF_T2	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
8/10/2024 10:10	67605	WARW_T1	0	0	0	0	0	0	-0.82	-0.8	0	0	0	0	0	0
8/10/2024 10:11	67603	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 10:11	67605	WARW_T1	0	0	0	0	0	0	-0.82	-0.8	0	0	0	0	0	0
8/10/2024 10:11	56501	ROCK_T2	0	0	0	0	0	0	-0.88	-0.84	0	0	0	0	0	0
8/10/2024 10:11	45802	HEGI_T2	0	39	39	0	0.69	0.69	0.29	0.25	1	1	0	300	300	0
8/10/2024 10:11	56504	ROCK_T2	1	39	38	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/10/2024 10:11	41902	REED_T1	1	5	4	0.2	0.5	0.3	1.06	1.09	0	0	0	0	0	0
8/10/2024 10:11	16101	BING_T2	2	0	-2	0.7	0	-0.7	0.79	0.82	0	0	0	0	0	0
8/10/2024 10:11	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 10:11	16103	BING_T2	3	3	0	0.37	0.1	-0.27	0	0	0	0	0	0	0	0
8/10/2024 10:11	20402	ASHF_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 10:11	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 10:11	46206	DANV_T2	64	60	-4	0.75	0.55	-0.2	3.1	3.12	4	4	0	4200	4200	0
8/10/2024 10:11	46204	DANV_T2	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/10/2024 10:11	20403	ASHF_T2	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
8/10/2024 10:11	20401	ASHF_T2	4	2	-2	0.6	0.6	0	0	0	0	0	0	0	0	0
8/10/2024 10:12	53601	DALM_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
8/10/2024 10:12	20601	GRWO_T2	3	28	25	0.5	0.45	-0.05	0.85	0.86	0	0	0	0	0	0
8/10/2024 10:12	46206	DANV_T2	64	60	-4	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
8/10/2024 10:12	41902	REED_T1	1	5	4	0.2	0.5	0.3	1.06	1.09	0	0	0	0	0	0
8/10/2024 10:12	46203	DANV_T2	0	0	0	0	0	0	-1.68	-1.69	0	0	0	0	0	0
8/10/2024 10:12	46204	DANV_T2	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/10/2024 10:13	20402	ASHF_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 10:13	20403	ASHF_T2	0	0	0	0	0	0	1.32	1.37	0	0	0	0	0	0
8/10/2024 10:13	20401	ASHF_T2	4	2	-2	0.6	0.6	0	0	0	0	0	0	0	0	0
8/10/2024 10:14	67605	WARW_T1	0	0	0	0	0	0	-0.82	-0.8	0	0	0	0	0	0
8/10/2024 10:14	56504	ROCK_T2	1	39	38	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/10/2024 10:14	56501	ROCK_T2	0	0	0	0	0	0	-0.88	-0.84	0	0	0	0	0	0
8/10/2024 10:14	25503	MADI_T1	45	2	-43	0.2	0.3	0.1	-0.69	-0.65	0	0	0	0	0	0
8/10/2024 10:14	52404	GRPA_T2	0	0	0	0	0	0	-0.61	-0.58	0	0	0	0	0	0
8/10/2024 10:14	52403	GRPA_T2	5	9	4	0.76	0.61	-0.15	-0.32	-0.35	0	0	0	0	0	0
8/10/2024 10:14	25501	MADI_T1	3	3	0	0.33	0.47	0.14	0	0	0	0	0	0	0	0
8/10/2024 10:14	25502	MADI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/10/2024 10:14	67603	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 10:15	56501	ROCK_T2	0	0	0	0	0	0	-0.88	-0.84	0	0	0	0	0	0
8/10/2024 10:15	46803	HEPB_T2	0	1	1	0	0.3	0.3	0.59	0.62	0	0	0	0	0	0
8/10/2024 10:15	46801	HEPB_T2	2	2	0	1	0.95	-0.05	0	0	0	0	0	0	0	0
8/10/2024 10:16	53901	HALI_T2	0	0	0	0	0	0	-1.73	-1.69	0	0	0	0	0	0
8/10/2024 10:16	64305	LINC_T1	1	1	0	0.4	0	-0.4	-0.06	-0.06	0	0	0	0	0	0
8/10/2024 10:16	53902	HALI_T2	1	1	0	3.9	3.4	-0.5	0	0	0	0	0	0	0	0
8/10/2024 10:16	53903	HALI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 10:17	52403	GRPA_T2	7	15	8	0.8	0.97	0.17	0	0	0	0	0	0	0	0
8/10/2024 10:17	55101	WERT_T1	0	0	0	0	0	0	-1.33	-1.26	3	3	0	2400	2400	0
8/10/2024 10:17	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/10/2024 10:17	52404	GRPA_T2	0	0	0	0	0	0	-0.61	-0.58	0	0	0	0	0	0
8/10/2024 10:17	29402	BELT_T1	2	3	1	4.2	3.03	-1.17	0	0	0	0	0	0	0	0
8/10/2024 10:17	21601	EYNO_T1	3	6	3	0.27	0	-0.27	0.37	0.4	0	0	0	0	0	0
8/10/2024 10:18	53902	HALI_T2	1	1	0	3.9	3.4	-0.5	0	0	0	0	0	0	0	0
8/10/2024 10:18	53903	HALI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 10:18	53901	HALI_T2	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
8/10/2024 10:19	53901	HALI_T2	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
8/10/2024 10:19	53902	HALI_T2	1	1	0	3.9	3.4	-0.5	0	0	0	0	0	0	0	0
8/10/2024 10:19	48302	ORWI_T2	2	1	-1	0.3	0.3	0	-0.41	-0.37	0	0	0	0	0	0
8/10/2024 10:19	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 10:19	53903	HALI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 10:19	47401	PENS_T1	0	2	2	0	0	0	2.63	2.7	0	0	0	0	0	0
8/10/2024 10:20	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 10:20	47401	PENS_T1	0	2	2	0	0	0	1.32	1.35	0	0	0	0	0	0
8/10/2024 10:21	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 10:22	48302	ORWI_T2	2	1	-1	0.3	0.3	0	-0.37	-0.37	0	0	0	0	0	0
8/10/2024 10:22	65604	QVIL_T2	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
8/10/2024 10:22	65205	PRIN_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
8/10/2024 10:23	44203	POIN_T2	0	6	6	0	1.3	1.3	0.75	0.69	1	1	0	900	900	0
8/10/2024 10:23	44202	POIN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/10/2024 10:23	65604	QVIL_T2	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
8/10/2024 10:23	42201	SHEN_T2	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
8/10/2024 10:24	65005	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/10/2024 10:24	42201	SHEN_T2	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
8/10/2024 10:24	65001	NEFF_T2	0	0	0	0	0	0	-0.59	-0.52	1	1	0	1200	1200	0
8/10/2024 10:25	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/10/2024 10:25	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 10:25	45501	DERR_T2	0	0	0	0	0	0	-0.3	-0.26	2	2	0	1800	1800	0
8/10/2024 10:25	59101	WALK_T2	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
8/10/2024 10:26	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 10:26	45501	DERR_T2	0	0	0	0	0	0	-0.3	-0.26	2	2	0	1800	1800	0
8/10/2024 10:27	20402	ASHF_T2	0	7	7	0	0.4	0.4	0	0	0	0	0	0	0	0
8/10/2024 10:27	20403	ASHF_T2	0	0	0	0	0	0	0.68	0.74	0	0	0	0	0	0
8/10/2024 10:27	20401	ASHF_T2	1	2	1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
8/10/2024 10:27	67603	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 10:27	67605	WARW_T1	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
8/10/2024 10:28	56504	ROCK_T2	0	0	0	0	0	0	-0.77	-0.74	0	0	0	0	0	0
8/10/2024 10:29	56501	ROCK_T2	0	0	0	0	0	0	-0.84	-0.87	0	0	0	0	0	0
8/10/2024 10:30	56501	ROCK_T2	0	0	0	0	0	0	-0.84	-0.87	0	0	0	0	0	0
8/10/2024 10:31	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 10:31	56501	ROCK_T2	0	0	0	0	0	0	-0.84	-0.87	0	0	0	0	0	0
8/10/2024 10:32	40101	HUNT_T2	0	1	1	0	0	0	-0.39	-0.35	0	0	0	0	0	0
8/10/2024 10:32	56501	ROCK_T2	0	0	0	0	0	0	-0.84	-0.87	0	0	0	0	0	0
8/10/2024 10:32	25402	LAHA_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
8/10/2024 10:33	42301	MOWR_T2	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
8/10/2024 10:34	42301	MOWR_T2	0	0	0	0	0	0	-0.39	-0.35	0	0	0	0	0	0
8/10/2024 10:36	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 10:36	64101	REFR_T1	0	0	0	0	0	0	1.08	1.39	0	0	0	0	0	0
8/10/2024 10:36	44203	POIN_T2	4	6	2	1.3	1.76	0.46	0	0	0	0	0	0	0	0
8/10/2024 10:36	16203	POFA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 10:36	44202	POIN_T2	1	1	0	0.1	0	-0.1	-0.74	-0.73	1	1	0	1200	1200	0
8/10/2024 10:37	64101	REFR_T1	0	0	0	0	0	0	0.93	0.83	0	0	0	0	0	0
8/10/2024 10:38	66502	SMAN_T2	0	1	1	0	0.1	0.1	-0.65	-0.73	1	1	0	900	900	0
8/10/2024 10:38	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 10:38	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 10:38	64101	REFR_T1	0	0	0	0	0	0	1.39	1.24	0	0	0	0	0	0
8/10/2024 10:39	64101	REFR_T1	0	0	0	0	0	0	0.46	0.41	0	0	0	0	0	0
8/10/2024 10:40	42802	SELI_T1	0	0	0	0	0	0	-0.83	-0.8	0	0	0	0	0	0
8/10/2024 10:41	42802	SELI_T1	0	0	0	0	0	0	-0.83	-0.8	0	0	0	0	0	0
8/10/2024 10:41	56504	ROCK_T2	0	0	0	0	0	0	-0.74	-0.68	0	0	0	0	0	0
8/10/2024 10:42	56504	ROCK_T2	0	0	0	0	0	0	-0.74	-0.68	0	0	0	0	0	0
8/10/2024 10:44	56504	ROCK_T2	0	0	0	0	0	0	-0.74	-0.68	0	0	0	0	0	0
8/10/2024 10:44	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 10:44	66502	SMAN_T2	0	1	1	0	0.1	0.1	-0.65	-0.73	1	1	0	900	900	0
8/10/2024 10:44	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 10:45	56501	ROCK_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 10:45	22903	HARW_T1	6	21	15	0.47	0.48	0.01	0	0	0	0	0	0	0	0
8/10/2024 10:45	56504	ROCK_T2	0	0	0	0	0	0	-0.74	-0.68	0	0	0	0	0	0
8/10/2024 10:45	22901	HARW_T1	2	7	5	0.7	0.2	-0.5	-0.25	-0.46	1	1	0	1200	1200	0
8/10/2024 10:45	46802	HEPB_T1	0	2	2	0	0	0	-0.07	-0.04	0	0	0	0	0	0
8/10/2024 10:46	28702	HAML_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
8/10/2024 10:46	28701	HAML_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/10/2024 10:47	66703	STRA_T1	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
8/10/2024 10:47	52402	GRPA_T2	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
8/10/2024 10:47	52403	GRPA_T2	12	27	15	0.81	0.75	-0.06	0	0	0	0	0	0	0	0
8/10/2024 10:48	46801	HEPB_T2	2	2	0	0.95	1	0.05	0.07	0.09	0	0	0	0	0	0
8/10/2024 10:48	46803	HEPB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/10/2024 10:49	46102	MACI_T1	0	0	0	0	0	0	0.74	0.73	0	0	0	0	0	0
8/10/2024 10:50	66703	STRA_T1	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
8/10/2024 10:51	55002	NEWP_T1	1	1	0	1.5	1.2	-0.3	0	0	0	0	0	0	0	0
8/10/2024 10:51	55001	NEWP_T1	0	0	0	0	0	0	-0.57	-0.52	1	1	0	600	600	0
8/10/2024 10:52	56501	ROCK_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 10:52	55002	NEWP_T1	1	0	0	1.5	1.2	-0.3	0	0	0	0	0	0	0	0
8/10/2024 10:52	55001	NEWP_T1	0	0	0	0	0	0	-0.52	-0.51	1	1	0	600	600	0
8/10/2024 10:52	56504	ROCK_T2	0	0	0	0	0	0	-0.68	-0.62	0	0	0	0	0	0
8/10/2024 10:53	55002	NEWP_T1	1	1	0	1.5	1.2	-0.3	0	0	0	0	0	0	0	0
8/10/2024 10:53	42802	SELI_T1	0	0	0	0	0	0	-0.8	-0.66	0	0	0	0	0	0
8/10/2024 10:53	55001	NEWP_T1	0	0	0	0	0	0	-0.52	-0.51	1	1	0	600	600	0
8/10/2024 10:54	41902	REED_T1	4	5	1	0.7	0	-0.7	1.1	0.34	0	1	1	0	900	900
8/10/2024 10:56	42601	TUSC_T1	0	0	0	0	0	0	-0.59	-0.67	2	2	0	1800	1800	0
8/10/2024 10:57	52204	DEVO_T2	6	6	0	1.32	1.9	0.58	0	0	0	0	0	0	0	0
8/10/2024 10:57	52202	DEVO_T2	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
8/10/2024 10:58	42802	SELI_T1	0	0	0	0	0	0	-0.8	-0.66	0	0	0	0	0	0
8/10/2024 10:59	22903	HARW_T1	6	21	15	0.47	0.48	0.01	0	0	0	0	0	0	0	0
8/10/2024 10:59	52202	DEVO_T2	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
8/10/2024 10:59	22901	HARW_T1	2	7	5	0.7	0.2	-0.5	-0.46	-0.44	1	1	0	1200	1200	0
8/10/2024 10:59	52204	DEVO_T2	6	6	0	1.32	1.9	0.58	0	0	0	0	0	0	0	0
8/10/2024 11:00	15203	SFAR_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/10/2024 11:00	52204	DEVO_T2	6	6	0	2.47	1.37	-1.1	0	0	0	0	0	0	0	0
8/10/2024 11:00	52202	DEVO_T2	0	0	0	0	0	0	-1.94	-1.97	0	0	0	0	0	0
8/10/2024 11:00	44801	EDAN_T2	4	2	-2	0.38	0.55	0.17	-1.37	-1.33	0	0	0	0	0	0
8/10/2024 11:01	44801	EDAN_T2	4	2	-2	0.38	0.55	0.17	-1.37	-1.33	0	0	0	0	0	0
8/10/2024 11:01	15203	SFAR_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/10/2024 11:03	53901	HALI_T2	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
8/10/2024 11:03	53903	HALI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/10/2024 11:03	53902	HALI_T2	1	1	0	3.5	4	0.5	0	0	0	0	0	0	0	0
8/10/2024 11:03	64302	LINC_T2	1	0	-1	0.8	0	-0.8	1.41	0.51	0	0	0	0	0	0
8/10/2024 11:04	53902	HALI_T2	1	1	0	3.5	4	0.5	0	0	0	0	0	0	0	0
8/10/2024 11:04	47001	HUGH_T2	3	3	0	7.4	7.2	-0.2	-1.45	-1.37	1	1	0	900	900	0
8/10/2024 11:04	53903	HALI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/10/2024 11:04	53901	HALI_T2	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
8/10/2024 11:05	53901	HALI_T2	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
8/10/2024 11:05	52403	GRPA_T2	19	25	6	0.78	0.98	0.2	0	0	0	0	0	0	0	0
8/10/2024 11:05	53902	HALI_T2	1	1	0	3.5	4	0.5	0	0	0	0	0	0	0	0
8/10/2024 11:05	15203	SFAR_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/10/2024 11:05	52402	GRPA_T2	0	0	0	0	0	0	-0.67	-0.64	0	0	0	0	0	0
8/10/2024 11:05	51204	MTON_T2	0	0	0	0	0	0	-1.16	-1.14	2	2	0	1500	1500	0
8/10/2024 11:05	53903	HALI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/10/2024 11:06	52403	GRPA_T2	19	25	6	0.78	0.98	0.2	0	0	0	0	0	0	0	0
8/10/2024 11:06	53901	HALI_T2	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
8/10/2024 11:06	52402	GRPA_T2	0	0	0	0	0	0	-0.67	-0.64	0	0	0	0	0	0
8/10/2024 11:06	42802	SELI_T1	0	0	0	0	0	0	-0.8	-0.66	0	0	0	0	0	0
8/10/2024 11:06	53903	HALI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/10/2024 11:06	52501	PROG_T1	0	2	2	0	0.3	0.3	0.4	-0.91	1	1	0	300	300	0
8/10/2024 11:06	53902	HALI_T2	1	1	0	3.5	4	0.5	0	0	0	0	0	0	0	0
8/10/2024 11:10	55101	WERT_T1	0	0	0	0	0	0	-4.32	-4.33	8	8	0	6600	6600	0
8/10/2024 11:10	41902	REED_T1	5	0	-5	0.54	0	-0.54	0.34	0.3	1	1	0	900	900	0
8/10/2024 11:10	61102	BERK_T5	0	0	0	0	0	0	0.09	0.16	1	1	0	300	300	0
8/10/2024 11:11	47001	HUGH_T2	3	3	0	7.4	7.2	-0.2	-1.37	-1.35	1	1	0	900	900	0
8/10/2024 11:13	59201	THOM_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/10/2024 11:13	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 11:14	16101	BING_T2	6	3	-3	0.57	0	-0.57	0.93	0.94	0	0	0	0	0	0
8/10/2024 11:14	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/10/2024 11:14	42802	SELI_T1	0	0	0	0	0	0	-0.66	-0.76	0	0	0	0	0	0
8/10/2024 11:14	16103	BING_T2	3	3	0	0.97	0.4	-0.57	0	0	0	0	0	0	0	0
8/10/2024 11:14	16102	BING_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/10/2024 11:14	59201	THOM_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/10/2024 11:15	12701	MACU_T1	0	0	0	0	0	0	-0.76	-0.73	1	1	0	1200	1200	0
8/10/2024 11:20	13503	MCMI_T2	1	2	1	0.8	0.3	-0.5	-0.69	-0.68	0	0	0	0	0	0
8/10/2024 11:20	29402	BELT_T1	3	97	94	0.2	1.1	0.9	0	0	0	0	0	0	0	0
8/10/2024 11:20	12701	MACU_T1	0	0	0	0	0	0	-0.76	-0.73	1	1	0	1200	1200	0
8/10/2024 11:21	13503	MCMI_T2	1	2	1	0.8	0.3	-0.5	-0.68	-0.71	0	0	0	0	0	0
8/10/2024 11:26	41602	CLEV_T1	8	9	1	0.95	0.8	-0.15	0	0	1	1	0	600	600	0
8/10/2024 11:31	11903	ETEX_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 11:35	57702	PAXT_T1	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
8/10/2024 11:35	12704	MACU_T1	0	0	0	0	0	0	-0.79	-0.8	1	1	0	600	600	0
8/10/2024 11:36	13503	MCMI_T2	1	2	1	0.5	0.4	-0.1	-0.71	-0.68	0	0	0	0	0	0
8/10/2024 11:38	51302	WIND_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
8/10/2024 11:38	51306	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/10/2024 11:39	55105	WERT_T1	0	0	0	0	0	0	0.18	0.21	1	1	0	900	900	0
8/10/2024 11:39	67605	WARW_T1	1	2	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
8/10/2024 11:39	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 11:39	14403	SSLA_T1	4	0	-4	0.45	0	-0.45	0.14	0.2	2	2	0	1200	1200	0
8/10/2024 11:45	46206	DANV_T2	56	69	13	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
8/10/2024 11:45	46204	DANV_T2	4	6	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
8/10/2024 11:45	11202	ELHE_T2	3	12	9	1.2	0.95	-0.25	0.37	0.39	1	1	0	1200	1200	0
8/10/2024 11:45	46203	DANV_T2	1	0	-1	0.5	0	-0.5	-1.56	-1.61	0	0	0	0	0	0
8/10/2024 11:45	63804	HEMP_T1	2	2	0	7.5	6.3	-1.2	0.15	0.18	0	0	0	0	0	0
8/10/2024 11:46	46203	DANV_T2	1	0	-1	0.5	0	-0.5	-1.56	-1.61	0	0	0	0	0	0
8/10/2024 11:46	46204	DANV_T2	4	6	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
8/10/2024 11:46	46206	DANV_T2	56	69	13	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
8/10/2024 11:50	64101	REFR_T1	6	6	0	0.7	0.1	-0.6	0.48	0.49	0	0	0	0	0	0
8/10/2024 11:51	66901	SHIL_T2	0	0	0	0	0	0	0.47	0.43	0	0	0	0	0	0
8/10/2024 11:51	66903	SHIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/10/2024 11:52	64101	REFR_T1	6	6	0	0.7	0.1	-0.6	0.97	0.84	0	0	0	0	0	0
8/10/2024 11:53	66504	SMAN_T2	0	0	0	0	0	0	-1.68	-1.52	2	2	0	2400	2400	0
8/10/2024 11:54	57001	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 11:54	57004	WHHI_T2	0	1	1	0	1	1	-0.74	-0.71	0	0	0	0	0	0
8/10/2024 11:54	45402	WBLO_T2	1	1	0	0.6	0.7	0.1	-1.09	-1.05	1	1	0	900	900	0
8/10/2024 11:54	57006	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/10/2024 11:55	24702	FLND_T2	0	0	0	0	0	0	1.14	1	1	1	0	1200	1200	0
8/10/2024 11:56	51603	DUKE_T1	0	0	0	0	0	0	-0.15	-0.21	0	0	0	0	0	0
8/10/2024 12:00	63602	LETO_T1	0	0	0	0	0	0	-0.31	-0.21	1	1	0	600	600	0
8/10/2024 12:01	64305	LINC_T1	0	0	0	0	0	0	-0.03	0.02	0	0	0	0	0	0
8/10/2024 12:03	63602	LETO_T1	0	0	0	0	0	0	-0.31	-0.21	1	1	0	600	600	0
8/10/2024 12:05	47402	PENS_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/10/2024 12:05	47401	PENS_T1	1	2	1	0.4	0.2	-0.2	1.48	1.49	0	0	0	0	0	0
8/10/2024 12:05	47403	PENS_T1	1	0	-1	2.1	1.8	-0.3	0	0	0	0	0	0	0	0
8/10/2024 12:08	64101	REFR_T1	2	9	7	0.1	0.75	0.65	0.42	0.44	0	0	0	0	0	0
8/10/2024 12:09	58202	NEWV_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
8/10/2024 12:09	64101	REFR_T1	2	9	7	0.1	0.75	0.65	0.84	0.88	0	0	0	0	0	0
8/10/2024 12:10	56501	ROCK_T2	4	3	-1	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
8/10/2024 12:10	56504	ROCK_T2	0	0	0	0	0	0	-0.53	-0.59	0	0	0	0	0	0
8/10/2024 12:10	15402	WALL_T1	0	1	1	0	0.3	0.3	0.7	0.68	0	0	0	0	0	0
8/10/2024 12:10	45402	WBLO_T2	1	1	0	0.6	0.7	0.1	-1.05	-1.07	1	1	0	900	900	0
8/10/2024 12:10	64101	REFR_T1	2	9	7	0.1	0.75	0.65	0.84	0.88	0	0	0	0	0	0
8/10/2024 12:10	15401	WALL_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/10/2024 12:11	42701	AUGU_T1	3	13	10	0.63	0	-0.63	0	0	2	2	0	1800	1800	0
8/10/2024 12:11	45501	DERR_T2	0	0	0	0	0	0	-0.08	-0.13	2	2	0	1800	1800	0
8/10/2024 12:12	16102	BING_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/10/2024 12:12	16103	BING_T2	3	3	0	0.97	1.97	1	-0.35	-0.36	1	1	0	600	600	0
8/10/2024 12:12	16101	BING_T2	3	3	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/10/2024 12:12	61703	ELIZ_T1	0	1	1	0	0.1	0.1	-2.47	-2.47	2	2	0	2100	2100	0
8/10/2024 12:12	61701	ELIZ_T1	3	2	-1	1.03	2.75	1.72	0	0	0	0	0	0	0	0
8/10/2024 12:13	61701	ELIZ_T1	3	2	-1	1.03	2.75	1.72	0	0	0	0	0	0	0	0
8/10/2024 12:13	61703	ELIZ_T1	0	1	1	0	0.1	0.1	-2.47	-2.47	2	2	0	2100	2100	0
8/10/2024 12:13	42701	AUGU_T1	3	13	10	0.63	0	-0.63	0	0	2	2	0	1800	1800	0
8/10/2024 12:16	25402	LAHA_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
8/10/2024 12:16	61703	ELIZ_T1	0	1	1	0	0.1	0.1	-2.47	-2.47	2	2	0	2100	2100	0
8/10/2024 12:16	61306	EARL_T1	0	0	0	0	0	0	-1.14	-1.13	0	0	0	0	0	0
8/10/2024 12:16	61701	ELIZ_T1	2	2	0	0.95	2.75	1.8	0	0	0	0	0	0	0	0
8/10/2024 12:17	22903	HARW_T1	1	9	8	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
8/10/2024 12:17	61703	ELIZ_T1	0	1	1	0	0.1	0.1	-4.94	-4.94	4	4	0	4200	4200	0
8/10/2024 12:17	61701	ELIZ_T1	2	2	0	0.95	2.75	1.8	0	0	0	0	0	0	0	0
8/10/2024 12:17	22901	HARW_T1	30	32	2	0.82	0.83	0.01	-0.4	-0.41	1	1	0	1200	1200	0
8/10/2024 12:17	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
8/10/2024 12:17	12701	MACU_T1	0	1	1	0	0	0	-0.75	-0.76	1	1	0	1200	1200	0
8/10/2024 12:17	61102	BERK_T5	0	0	0	0	0	0	0.23	0.32	1	1	0	300	300	0
8/10/2024 12:17	22905	HARW_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
8/10/2024 12:17	64902	MILL_T2	0	0	0	0	0	0	-0.67	-0.63	1	1	0	900	900	0
8/10/2024 12:18	46101	MACI_T2	0	0	0	0	0	0	-0.5	-0.52	1	1	0	1200	1200	0
8/10/2024 12:18	27605	PIRI_T2	0	0	0	0	0	0	0.13	-0.03	1	1	0	900	900	0
8/10/2024 12:18	42902	MIDD_T2	4	10	6	1.03	0.86	-0.17	-0.93	-0.93	1	1	0	600	600	0
8/10/2024 12:18	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 12:18	63804	HEMP_T1	2	2	0	6.8	7.55	0.75	0.21	0.21	0	0	0	0	0	0
8/10/2024 12:18	63801	HEMP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/10/2024 12:21	14403	SSLA_T1	1	5	4	0.1	0.33	0.23	0.16	0.16	2	2	0	1200	1200	0
8/10/2024 12:21	14402	SSLA_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 12:22	11102	EGYP_T1	4	3	-1	1.93	1.17	-0.76	0	0	0	0	0	0	0	0
8/10/2024 12:22	14502	SCHO_T1	2	2	0	1	1	0	1.18	1.2	0	0	0	0	0	0
8/10/2024 12:22	11104	EGYP_T1	15	14	-1	1.35	0.5	-0.85	1.9	0.2	0	2	2	0	1800	1800
8/10/2024 12:22	11101	EGYP_T1	1	1	0	1.7	1	-0.7	0	0	0	0	0	0	0	0
8/10/2024 12:24	55002	NEWP_T1	1	1	0	2.2	1.9	-0.3	-0.01	0.02	0	0	0	0	0	0
8/10/2024 12:25	67804	WLAN_T1	10	10	0	2.26	1.75	-0.51	0	0	0	0	0	0	0	0
8/10/2024 12:25	55002	NEWP_T1	1	1	0	2.2	1.9	-0.3	-0.01	0.02	0	0	0	0	0	0
8/10/2024 12:25	67801	WLAN_T1	1	3	2	0.6	0.6	0	-0.81	-0.83	0	0	0	0	0	0
8/10/2024 12:25	67602	WARW_T2	0	0	0	0	0	0	0.71	-0.05	1	2	1	300	1500	1200
8/10/2024 12:26	53903	HALI_T2	2	3	1	0.15	0.33	0.18	0	0	0	0	0	0	0	0
8/10/2024 12:26	53902	HALI_T2	1	1	0	3.7	4.2	0.5	-0.62	-0.59	0	0	0	0	0	0
8/10/2024 12:27	67605	WARW_T1	1	2	1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
8/10/2024 12:27	67603	WARW_T1	0	0	0	0	0	0	0.62	0.67	0	0	0	0	0	0
8/10/2024 12:27	67602	WARW_T2	0	0	0	0	0	0	1.42	-0.09	2	4	2	600	3000	2400
8/10/2024 12:27	10704	CATA_T2	0	0	0	0	0	0	-0.12	-0.04	2	2	0	2400	2400	0
8/10/2024 12:28	67602	WARW_T2	0	0	0	0	0	0	0.71	-0.05	1	2	1	300	1500	1200
8/10/2024 12:29	67603	WARW_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
8/10/2024 12:29	67605	WARW_T1	1	2	1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
8/10/2024 12:30	67602	WARW_T2	0	0	0	0	0	0	0.71	-0.05	1	2	1	300	1500	1200
8/10/2024 12:33	12701	MACU_T1	1	0	-1	0.2	0	-0.2	-0.76	-0.75	1	1	0	1200	1200	0
8/10/2024 12:34	63401	HONY_T1	0	0	0	0	0	0	0.23	0.17	1	1	0	600	600	0
8/10/2024 12:35	15201	SPAR_T1	0	0	0	0	0	0	0.6	0.58	2	2	0	1800	1800	0
8/10/2024 12:36	64101	REFR_T1	9	13	4	0.7	2.59	1.89	0.44	0.44	0	0	0	0	0	0
8/10/2024 12:37	14402	SSLA_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 12:37	24201	PROV_T3	2	2	0	4.25	4.55	0.3	-0.83	-0.8	1	1	0	1200	1200	0
8/10/2024 12:37	14403	SSLA_T1	3	5	2	0.4	0.65	0.25	0.16	0.12	2	2	0	1200	1200	0
8/10/2024 12:37	24204	PROV_T3	1	1	0	7.2	7.4	0.2	0	0	0	0	0	0	0	0
8/10/2024 12:38	15403	WALL_T1	0	0	0	0	0	0	-0.24	-0.25	1	1	0	1200	1200	0
8/10/2024 12:38	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/10/2024 12:38	15401	WALL_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/10/2024 12:39	65901	SAKR_T2	1	1	0	7	6.8	-0.2	-0.78	-0.8	2	2	0	1500	1500	0
8/10/2024 12:40	11104	EGYP_T1	14	5	-9	1.03	0	-1.03	0.1	0.1	1	1	0	900	900	0
8/10/2024 12:40	11101	EGYP_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
8/10/2024 12:40	55002	NEWP_T1	1	1	0	1.9	1.8	-0.1	0.02	0	0	0	0	0	0	0
8/10/2024 12:40	11102	EGYP_T1	3	3	0	1.27	1.1	-0.17	0	0	0	0	0	0	0	0
8/10/2024 12:42	67602	WARW_T2	0	0	0	0	0	0	-0.05	-0.05	2	2	0	1500	1500	0
8/10/2024 12:44	51202	MTON_T2	1	0	-1	0.1	0	-0.1	0.54	0.56	0	0	0	0	0	0
8/10/2024 12:44	62102	ELAN_T1	0	1	1	0	0.3	0.3	0.57	0.71	0	0	0	0	0	0
8/10/2024 12:44	42802	SELI_T1	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
8/10/2024 12:45	60902	DONG_T2	1	1	0	0.2	0.2	0	1.36	0.71	0	0	0	0	0	0
8/10/2024 12:46	66302	MCGO_T2	0	0	0	0	0	0	-1.16	-1.11	1	1	0	600	600	0
8/10/2024 12:46	16302	ALPA_T2	0	0	0	0	0	0	-0.1	-0.02	0	0	0	0	0	0
8/10/2024 12:47	40101	HUNT_T2	1	3	2	0.2	0	-0.2	-0.29	-0.27	0	0	0	0	0	0
8/10/2024 12:47	16302	ALPA_T2	0	0	0	0	0	0	-0.21	-0.04	0	0	0	0	0	0
8/10/2024 12:48	52403	GRPA_T2	48	55	7	0.76	0.78	0.02	-0.25	-0.23	0	0	0	0	0	0
8/10/2024 12:48	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 12:48	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 12:48	16302	ALPA_T2	0	0	0	0	0	0	-0.1	-0.02	0	0	0	0	0	0
8/10/2024 12:48	52402	GRPA_T2	2	3	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/10/2024 12:48	67605	WARW_T1	1	2	1	0.2	0.65	0.45	0	0	0	0	0	0	0	0
8/10/2024 12:49	14801	TREI_T2	0	2	2	0	0	0	1.2	1.22	0	0	0	0	0	0
8/10/2024 12:49	60502	NMAN_T2	1	0	-1	0.5	0	-0.5	0.3	-0.25	0	0	0	0	0	0
8/10/2024 12:49	60504	NMAN_T2	2	3	1	4.3	0.35	-3.95	0	0	0	0	0	0	0	0
8/10/2024 12:50	16302	ALPA_T2	0	0	0	0	0	0	-0.1	-0.02	0	0	0	0	0	0
8/10/2024 12:51	42901	MIDD_T2	0	11	11	0	0.22	0.22	0	0	0	0	0	0	0	0
8/10/2024 12:51	42903	MIDD_T2	0	11	11	0	0.66	0.66	0.12	0.5	0	0	0	0	0	0
8/10/2024 12:51	42902	MIDD_T2	8	23	15	0.85	0.25	-0.6	0	0	0	0	0	0	0	0
8/10/2024 12:52	11102	EGYP_T1	3	3	0	1.2	0.5	-0.7	0.31	0.3	0	0	0	0	0	0
8/10/2024 12:52	11104	EGYP_T1	5	5	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/10/2024 12:52	11101	EGYP_T1	1	1	0	1	1.6	0.6	0	0	0	0	0	0	0	0
8/10/2024 12:52	44203	POIN_T2	0	0	0	0	0	0	-0.44	-0.49	2	2	0	2100	2100	0
8/10/2024 12:52	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 12:53	54601	SUMM_T2	0	0	0	0	0	0	-1.38	-1.33	2	2	0	2100	2100	0
8/10/2024 12:53	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 12:53	65603	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 12:53	54602	SUMM_T2	1	1	0	0.1	3.4	3.3	0	0	0	0	0	0	0	0
8/10/2024 12:53	65601	QVIL_T2	0	0	0	0	0	0	-0.06	-0.05	1	1	0	900	900	0
8/10/2024 12:53	65604	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 12:54	60301	TWVA_T2	1	0	-1	1.6	0	-1.6	-3.06	-3.04	2	2	0	1800	1800	0
8/10/2024 12:54	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 12:54	64101	REFR_T1	11	10	-1	2.96	0.52	-2.44	0.6	0.52	0	0	0	0	0	0
8/10/2024 12:54	45802	HEGI_T2	47	47	0	1.37	1.52	0.15	0.21	0.13	0	0	0	0	0	0
8/10/2024 12:55	11101	EGYP_T1	1	1	0	1	1.6	0.6	-0.3	-0.28	1	1	0	1200	1200	0
8/10/2024 12:55	11102	EGYP_T1	3	3	0	1.2	0.5	-0.7	0	0	0	0	0	0	0	0
8/10/2024 12:55	11104	EGYP_T1	5	5	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/10/2024 12:55	55002	NEWP_T1	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
8/10/2024 12:55	55001	NEWP_T1	0	0	0	0	0	0	-0.42	-0.43	1	1	0	600	600	0
8/10/2024 12:56	55101	WERT_T1	0	0	0	0	0	0	-4.04	-4.08	8	8	0	6600	6600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/10/2024 12:56	59101	WALK_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
8/10/2024 12:56	45802	HEGI_T2	47	47	0	1.37	1.52	0.15	0.21	0.13	0	0	0	0	0	0
8/10/2024 12:56	64101	REFR_T1	11	10	-1	2.96	0.52	-2.44	0.6	0.52	0	0	0	0	0	0
8/10/2024 12:57	21504	CEAV_T1	0	0	0	0	0	0	-0.3	-0.29	1	1	0	1200	1200	0
8/10/2024 12:57	52204	DEVO_T2	6	6	0	1.78	1.4	-0.38	0	0	0	0	0	0	0	0
8/10/2024 12:57	55101	WERT_T1	0	0	0	0	0	0	-2.02	-2.04	4	4	0	3300	3300	0
8/10/2024 12:57	52202	DEVO_T2	0	0	0	0	0	0	-1.71	-1.67	0	0	0	0	0	0
8/10/2024 12:58	46001	BERW_T1	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
8/10/2024 12:58	46005	BERW_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/10/2024 12:58	52204	DEVO_T2	6	6	0	1.78	1.4	-0.38	0	0	0	0	0	0	0	0
8/10/2024 12:58	52202	DEVO_T2	0	0	0	0	0	0	-0.85	-0.83	0	0	0	0	0	0
8/10/2024 12:58	20402	ASHF_T2	10	8	-2	0.37	0.4	0.03	0	0	0	0	0	0	0	0
8/10/2024 12:58	20401	ASHF_T2	4	6	2	0.38	0.48	0.1	0	0	0	0	0	0	0	0
8/10/2024 12:58	20403	ASHF_T2	0	1	1	0	0	0	0.88	0.9	0	0	0	0	0	0
8/10/2024 12:58	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 12:59	10705	CATA_T2	0	0	0	0	0	0	-1.35	-1.35	1	1	0	900	900	0
8/10/2024 13:00	43202	MVIL_T2	0	2	2	0	0	0	-0.81	-0.79	0	0	0	0	0	0
8/10/2024 13:00	43201	MVIL_T2	2	3	1	1.25	0.1	-1.15	0	0	0	0	0	0	0	0
8/10/2024 13:00	60502	NMAN_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
8/10/2024 13:00	60504	NMAN_T2	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
8/10/2024 13:03	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 13:04	23102	MOSC_T2	0	0	0	0	0	0	-4.11	-3.94	4	4	0	4200	4200	0
8/10/2024 13:04	43202	MVIL_T2	0	2	2	0	0	0	-0.81	-0.79	0	0	0	0	0	0
8/10/2024 13:04	43201	MVIL_T2	2	3	1	1.25	0.1	-1.15	0	0	0	0	0	0	0	0
8/10/2024 13:05	24602	VARD_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/10/2024 13:05	24603	VARD_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/10/2024 13:06	66504	SMAN_T2	0	0	0	0	0	0	-1.45	-1.33	2	2	0	2400	2400	0
8/10/2024 13:06	66505	SMAN_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/10/2024 13:07	67602	WARW_T2	0	0	0	0	0	0	-0.06	-0.08	2	2	0	1500	1500	0
8/10/2024 13:08	51305	WIND_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/10/2024 13:08	51301	WIND_T1	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
8/10/2024 13:08	51303	WIND_T1	14	14	0	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
8/10/2024 13:09	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 13:10	51302	WIND_T2	0	0	0	0	0	0	-0.56	-0.53	0	0	0	0	0	0
8/10/2024 13:10	64701	LITI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 13:11	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 13:13	46001	BERW_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
8/10/2024 13:13	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 13:15	63304	GREE_T1	0	0	0	0	0	0	-6.31	-6.54	2	2	0	2400	2400	0
8/10/2024 13:15	47802	MOAL_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
8/10/2024 13:19	57303	MOAL_T2	1	1	0	8.7	8.9	0.2	0	0	0	0	0	0	0	0
8/10/2024 13:19	57304	MOAL_T2	2	7	5	0.5	0	-0.5	-0.15	-0.1	0	0	0	0	0	0
8/10/2024 13:20	57304	MOAL_T2	2	7	5	0.5	0	-0.5	-0.15	-0.1	0	0	0	0	0	0
8/10/2024 13:20	23102	MOSC_T2	0	0	0	0	0	0	-3.94	-4.06	4	4	0	4200	4200	0
8/10/2024 13:20	57303	MOAL_T2	1	1	0	8.7	8.9	0.2	0	0	0	0	0	0	0	0
8/10/2024 13:22	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 13:22	55101	WERT_T1	0	0	0	0	0	0	-2.05	-1.97	4	4	0	3300	3300	0
8/10/2024 13:22	51204	MTON_T2	0	0	0	0	0	0	-1.08	-1.09	2	2	0	1500	1500	0
8/10/2024 13:22	52501	PROG_T1	3	2	-1	0.37	0.5	0.13	-0.81	-0.79	1	1	0	300	300	0
8/10/2024 13:24	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/10/2024 13:24	60504	NMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/10/2024 13:24	64101	REFR_T1	9	10	1	0.52	0.49	-0.03	0.53	0.54	0	0	0	0	0	0
8/10/2024 13:24	60502	NMAN_T2	0	0	0	0	0	0	-0.24	-0.28	0	0	0	0	0	0
8/10/2024 13:25	42701	AUGU_T1	1	4	3	0.1	0.15	0.05	0	0	0	0	0	0	0	0
8/10/2024 13:25	53501	EVIL_T2	1	1	0	1	0.8	-0.2	-0.01	-0.01	1	1	0	600	600	0
8/10/2024 13:26	64101	REFR_T1	9	10	1	0.52	0.49	-0.03	0.53	0.54	0	0	0	0	0	0
8/10/2024 13:26	42701	AUGU_T1	1	4	3	0.1	0.15	0.05	0	0	2	2	0	1800	1800	0
8/10/2024 13:27	52403	GRPA_T2	25	55	30	0.77	0.67	-0.1	0	0	0	0	0	0	0	0
8/10/2024 13:27	53601	DALM_T2	2	1	-1	0.15	0.1	-0.05	0.04	0.01	0	0	0	0	0	0
8/10/2024 13:27	52401	GRPA_T2	1	4	3	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/10/2024 13:27	52402	GRPA_T2	3	8	5	0.57	0.47	-0.1	-0.55	-0.52	0	0	0	0	0	0
8/10/2024 13:28	16102	BING_T2	1	3	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/10/2024 13:28	16101	BING_T2	3	6	3	1.23	1.47	0.24	1.08	1.14	0	0	0	0	0	0
8/10/2024 13:28	16103	BING_T2	7	3	-4	1.3	1.83	0.53	0	0	0	0	0	0	0	0
8/10/2024 13:28	53501	EVIL_T2	1	1	0	1	0.8	-0.2	-0.01	-0.01	1	1	0	600	600	0
8/10/2024 13:29	53501	EVIL_T2	1	1	0	1	0.8	-0.2	-0.01	-0.01	2	2	0	1200	1200	0
8/10/2024 13:30	53501	EVIL_T2	1	1	0	0.8	0.6	-0.2	-0.01	-0.01	1	1	0	600	600	0
8/10/2024 13:30	40101	HUNT_T2	3	1	-2	0.3	0	-0.3	-0.29	-0.28	0	0	0	0	0	0
8/10/2024 13:30	65804	RTWN_T1	0	0	0	0	0	0	0.71	0.74	1	1	0	600	600	0
8/10/2024 13:32	20402	ASHF_T2	7	8	1	0.44	0.2	-0.24	0	0	0	0	0	0	0	0
8/10/2024 13:32	20403	ASHF_T2	1	1	0	0.8	0	-0.8	0.9	0.92	0	0	0	0	0	0
8/10/2024 13:32	20401	ASHF_T2	5	9	4	0.52	0.45	-0.07	0	0	0	0	0	0	0	0
8/10/2024 13:33	14702	TREX_T2	0	0	0	0	0	0	1.07	1.07	0	0	0	0	0	0
8/10/2024 13:34	20403	ASHF_T2	1	1	0	0.8	0	-0.8	0.9	0.92	0	0	0	0	0	0
8/10/2024 13:34	20402	ASHF_T2	7	8	1	0.44	0.2	-0.24	0	0	0	0	0	0	0	0
8/10/2024 13:34	20401	ASHF_T2	5	9	4	0.52	0.45	-0.07	0	0	0	0	0	0	0	0
8/10/2024 13:35	66701	STRA_T1	0	0	0	0	0	0	-0.61	-0.55	1	1	0	600	600	0
8/10/2024 13:35	40901	JESH_T1	1	1	0	1.8	2	0.2	-0.76	-0.73	2	2	0	1500	1500	0
8/10/2024 13:35	40902	JESH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/10/2024 13:37	14705	TREX_T1	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
8/10/2024 13:37	13904	SEID_T1	3	8	5	0.2	0.47	0.27	0	0	0	0	0	0	0	0
8/10/2024 13:37	13903	SEID_T1	10	10	0	0.79	0.66	-0.13	0	0	0	0	0	0	0	0
8/10/2024 13:38	64101	REFR_T1	10	11	1	0.58	0.49	-0.09	0.54	0.56	0	0	0	0	0	0
8/10/2024 13:41	45501	DERR_T2	0	0	0	0	0	0	-0.11	0.02	2	2	0	1800	1800	0
8/10/2024 13:42	20403	ASHF_T2	1	1	0	0.8	0	-0.8	0.92	0.96	0	0	0	0	0	0
8/10/2024 13:42	20402	ASHF_T2	7	8	1	0.44	0.2	-0.24	0	0	0	0	0	0	0	0
8/10/2024 13:42	20401	ASHF_T2	5	9	4	0.52	0.45	-0.07	0	0	0	0	0	0	0	0
8/10/2024 13:44	61506	EPET_T2	0	0	0	0	0	0	-0.39	-0.33	1	1	0	900	900	0
8/10/2024 13:44	61501	EPET_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
8/10/2024 13:45	52204	DEVO_T2	6	6	0	1.58	1.27	-0.31	0	0	0	0	0	0	0	0
8/10/2024 13:45	42801	SELI_T1	0	0	0	0	0	0	-1.64	-1.63	1	1	0	1200	1200	0
8/10/2024 13:45	52202	DEVO_T2	0	0	0	0	0	0	-0.84	-2.07	0	0	0	0	0	0
8/10/2024 13:46	47202	FAXO_T2	1	0	-1	6.3	0	-6.3	-1.81	-1.82	0	0	0	0	0	0
8/10/2024 13:47	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 13:47	42901	MIDD_T2	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
8/10/2024 13:47	21206	ECAR_T2	7	1	-6	1.61	5.7	4.09	0.44	0.45	0	0	0	0	0	0
8/10/2024 13:47	42902	MIDD_T2	6	7	1	0.55	0.49	-0.06	0	0	0	0	0	0	0	0
8/10/2024 13:47	14702	TREX_T2	0	0	0	0	0	0	1.07	1.08	0	0	0	0	0	0
8/10/2024 13:47	42903	MIDD_T2	4	4	0	1.15	1.13	-0.02	0.49	0.38	0	0	0	0	0	0
8/10/2024 13:48	42903	MIDD_T2	4	4	0	1.15	1.13	-0.02	0.49	0.38	0	0	0	0	0	0
8/10/2024 13:48	42901	MIDD_T2	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
8/10/2024 13:48	42902	MIDD_T2	6	7	1	0.55	0.49	-0.06	0	0	0	0	0	0	0	0
8/10/2024 13:48	14702	TREX_T2	0	0	0	0	0	0	1.07	1.08	0	0	0	0	0	0
8/10/2024 13:50	20401	ASHF_T2	5	8	3	0.72	0.17	-0.55	0	0	0	0	0	0	0	0
8/10/2024 13:50	20402	ASHF_T2	2	12	10	0.3	0.68	0.38	0	0	0	0	0	0	0	0
8/10/2024 13:50	20403	ASHF_T2	1	0	-1	1.5	0	-1.5	0.92	0.96	0	0	0	0	0	0
8/10/2024 13:51	47401	PENS_T1	3	3	0	0.57	1	0.43	1.43	1.61	0	0	0	0	0	0
8/10/2024 13:51	44202	POIN_T2	0	1	1	0	0.4	0.4	-0.63	-0.63	1	1	0	1200	1200	0
8/10/2024 13:51	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/10/2024 13:52	14702	TREX_T2	0	0	0	0	0	0	1.08	1.1	0	0	0	0	0	0
8/10/2024 13:54	40602	PIGR_T1	1	1	0	1.8	1.8	0	-1.2	-1.2	1	1	0	600	600	0
8/10/2024 13:54	40601	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 13:54	40603	PIGR_T1	3	4	1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
8/10/2024 13:57	20603	GRWO_T2	0	0	0	0	0	0	-0.53	-0.31	1	1	0	900	900	0
8/10/2024 13:57	20601	GRWO_T2	185	107	-78	1.2	0.71	-0.49	0	0	0	0	0	0	0	0
8/10/2024 13:58	41902	REED_T1	1	16	15	1	0.39	-0.61	0.43	0.42	1	1	0	900	900	0
8/10/2024 13:59	41602	CLEV_T1	58	2	-56	0.41	0	-0.41	0	0	0	0	0	0	0	0
8/10/2024 13:59	41601	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/10/2024 14:01	59003	MIFF_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
8/10/2024 14:01	59001	MIFF_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/10/2024 14:07	44202	POIN_T2	1	1	0	0.4	0.2	-0.2	-0.61	-0.61	1	1	0	1200	1200	0
8/10/2024 14:08	14702	TREX_T2	0	0	0	0	0	0	1.1	1.12	0	0	0	0	0	0
8/10/2024 14:08	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 14:08	13904	SEID_T1	8	27	19	0.45	0.67	0.22	0	0	0	0	0	0	0	0
8/10/2024 14:08	13903	SEID_T1	9	14	5	1.18	1.22	0.04	0	0	0	0	0	0	0	0
8/10/2024 14:09	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/10/2024 14:12	41502	FAIR_T2	0	0	0	0	0	0	-1.41	-1.41	1	1	0	900	900	0
8/10/2024 14:12	42701	AUGU_T1	15	31	16	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
8/10/2024 14:13	41902	REED_T1	14	10	-4	0.4	0.54	0.14	0.42	0.41	1	1	0	900	900	0
8/10/2024 14:17	45501	DERR_T2	0	1	1	0	0	0	-0.08	-0.1	2	2	0	1800	1800	0
8/10/2024 14:20	14304	SUMN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 14:20	14302	SUMN_T1	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/10/2024 14:20	14308	SUMN_T1	1	1	0	0.2	0	-0.2	0.46	0.39	0	0	0	0	0	0
8/10/2024 14:20	14403	SSLA_T1	7	7	0	0.87	0.6	-0.27	0.11	0.14	2	2	0	1200	1200	0
8/10/2024 14:20	14306	SUMN_T1	4	9	5	0.58	0.46	-0.12	0	0	0	0	0	0	0	0
8/10/2024 14:20	14401	SSLA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/10/2024 14:20	14702	TREX_T2	0	0	0	0	0	0	1.1	1.12	0	0	0	0	0	0
8/10/2024 14:20	14303	SUMN_T1	1	1	0	7.6	7.6	0	0	0	0	0	0	0	0	0
8/10/2024 14:20	14404	SSLA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/10/2024 14:23	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/10/2024 14:23	13503	MCMI_T2	1	1	0	0.2	0.6	0.4	-0.65	-0.62	0	0	0	0	0	0
8/10/2024 14:23	65205	PRIN_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
8/10/2024 14:24	48302	ORWI_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
8/10/2024 14:25	14401	SSLA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/10/2024 14:25	14404	SSLA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/10/2024 14:25	14403	SSLA_T1	7	7	0	0.87	0.6	-0.27	0.14	0.12	2	2	0	1200	1200	0
8/10/2024 14:26	42201	SHEN_T2	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
8/10/2024 14:26	67505	WEWI_T1	0	0	0	0	0	0	0.12	0.1	1	1	0	900	900	0
8/10/2024 14:30	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/10/2024 14:31	40101	HUNT_T2	4	8	4	0.53	0.42	-0.11	-0.28	-0.25	0	0	0	0	0	0
8/10/2024 14:33	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/10/2024 14:34	40101	HUNT_T2	4	8	4	0.53	0.42	-0.11	-0.28	-0.25	0	0	0	0	0	0
8/10/2024 14:35	14702	TREX_T2	0	0	0	0	0	0	1.12	1.17	0	0	0	0	0	0
8/10/2024 14:36	23002	SAJO_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/10/2024 14:36	23001	SAJO_T1	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
8/10/2024 14:40	53502	EVIL_T2	0	0	0	0	0	0	0.13	0.17	1	1	0	600	600	0
8/10/2024 14:40	53501	EVIL_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/10/2024 14:41	16103	BING_T2	9	10	1	2.19	2.67	0.48	0	0	0	0	0	0	0	0
8/10/2024 14:41	16101	BING_T2	8	14	6	1.03	0.57	-0.46	1.31	1.32	0	0	0	0	0	0
8/10/2024 14:41	53501	EVIL_T2	2	2	0	0.2	0.3	0.1	-0.01	-0.01	1	1	0	600	600	0
8/10/2024 14:42	53501	EVIL_T2	2	2	0	0.2	0.3	0.1	-0.01	-0.01	1	1	0	600	600	0
8/10/2024 14:43	53501	EVIL_T2	2	2	0	0.2	0.3	0.1	-0.01	-0.01	1	1	0	600	600	0
8/10/2024 14:43	55001	NEWP_T1	1	1	0	0.1	0	-0.1	-0.35	-0.36	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/10/2024 14:43	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 14:43	67605	WARW_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/10/2024 14:43	55002	NEWP_T1	1	1	0	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
8/10/2024 14:44	51202	MTON_T2	0	0	0	0	0	0	0.63	0.66	0	0	0	0	0	0
8/10/2024 14:44	53501	EVIL_T2	2	2	0	0.2	0.3	0.1	-0.01	-0.01	2	2	0	1200	1200	0
8/10/2024 14:46	40602	PIGR_T1	1	3	2	2.2	2.2	0	0	0	0	0	0	0	0	0
8/10/2024 14:46	40603	PIGR_T1	5	17	12	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/10/2024 14:46	40601	PIGR_T1	0	3	3	0	3.25	3.25	0	0	0	0	0	0	0	0
8/10/2024 14:49	23001	SAJO_T1	0	0	0	0	0	0	-0.67	-0.6	0	0	0	0	0	0
8/10/2024 14:49	23002	SAJO_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
8/10/2024 14:52	65401	MARI_T1	13	17	4	2.26	1.6	-0.66	0	0	0	0	0	0	0	0
8/10/2024 14:52	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 14:53	64801	MONE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 14:53	64802	MONE_T2	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
8/10/2024 14:54	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 14:55	24001	WIBA_T1	9	14	5	0.53	0.3	-0.23	0.55	0.54	0	0	0	0	0	0
8/10/2024 14:57	26402	INOR_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
8/10/2024 14:57	26401	INOR_T1	2	1	-1	3.4	7.3	3.9	0	0	0	0	0	0	0	0
8/10/2024 14:57	53501	EVIL_T2	2	1	-1	0.5	0.3	-0.2	-0.01	-0.01	1	1	0	600	600	0
8/10/2024 14:58	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 14:58	42701	AUGU_T1	51	31	-20	0.58	0.48	-0.1	0	0	2	2	0	1800	1800	0
8/10/2024 14:58	16005	DORN_T1	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
8/10/2024 14:59	12002	HATF_T1	0	0	0	0	0	0	-0.85	-0.77	1	1	0	1200	1200	0
8/10/2024 14:59	12006	HATF_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
8/10/2024 14:59	12007	HATF_T1	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
8/10/2024 15:03	43202	MVIL_T2	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
8/10/2024 15:05	43202	MVIL_T2	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
8/10/2024 15:07	47002	HUGH_T2	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
8/10/2024 15:07	64101	REFR_T1	10	10	0	1.19	1.13	-0.06	0.57	0.59	0	0	0	0	0	0
8/10/2024 15:07	45402	WBLO_T2	1	1	0	0.5	1	0.5	-0.96	-1.01	1	1	0	900	900	0
8/10/2024 15:07	47001	HUGH_T2	3	3	0	6.33	6.43	0.1	-1.15	-1.16	1	1	0	900	900	0
8/10/2024 15:08	55101	WERT_T1	0	0	0	0	0	0	-1.92	-1.99	4	4	0	3300	3300	0
8/10/2024 15:08	13303	ORVI_T1	0	0	0	0	0	0	1.48	1.4	0	0	0	0	0	0
8/10/2024 15:09	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 15:10	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 15:10	55101	WERT_T1	0	0	0	0	0	0	-1.92	-1.99	4	4	0	3300	3300	0
8/10/2024 15:10	61102	BERK_T5	0	0	0	0	0	0	0.34	0.23	1	1	0	300	300	0
8/10/2024 15:10	64101	REFR_T1	10	10	0	1.19	1.13	-0.06	0.57	0.59	0	0	0	0	0	0
8/10/2024 15:12	55101	WERT_T1	0	0	0	0	0	0	-3.84	-3.99	8	8	0	6600	6600	0
8/10/2024 15:12	55102	WERT_T2	0	0	0	0	0	0	-1.8	-1.78	2	2	0	1200	1200	0
8/10/2024 15:12	61102	BERK_T5	0	0	0	0	0	0	0.34	0.23	1	1	0	300	300	0
8/10/2024 15:14	53601	DALM_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
8/10/2024 15:20	20601	GRWO_T2	97	125	28	0.73	0.89	0.16	1	1	0	0	0	0	0	0
8/10/2024 15:21	57304	MOAL_T2	2	7	5	0.4	0.24	-0.16	-0.57	-0.51	0	0	0	0	0	0
8/10/2024 15:21	57303	MOAL_T2	1	1	0	8.9	9.2	0.3	0	0	0	0	0	0	0	0
8/10/2024 15:23	55101	WERT_T1	0	0	0	0	0	0	-1.99	-1.99	4	4	0	3300	3300	0
8/10/2024 15:23	14401	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 15:23	64101	REFR_T1	10	10	0	1.13	0.87	-0.26	0.59	-0.02	0	0	0	0	0	0
8/10/2024 15:23	14403	SSLA_T1	4	11	7	0.78	0.58	-0.2	0.2	0.21	2	2	0	1200	1200	0
8/10/2024 15:24	14401	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 15:24	14403	SSLA_T1	4	11	7	0.78	0.58	-0.2	0.2	0.21	2	2	0	1200	1200	0
8/10/2024 15:26	64101	REFR_T1	10	10	0	1.13	0.87	-0.26	0.59	-0.02	0	0	0	0	0	0
8/10/2024 15:27	41902	REED_T1	12	35	23	0.36	0.55	0.19	0.42	0.41	1	1	0	900	900	0
8/10/2024 15:27	41901	REED_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/10/2024 15:29	10903	COOP_T2	0	0	0	0	0	0	0.52	-0.11	0	1	1	0	600	600
8/10/2024 15:32	22903	HARW_T1	10	22	12	0.33	0.4	0.07	0	0	0	0	0	0	0	0
8/10/2024 15:32	22905	HARW_T1	2	15	13	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/10/2024 15:32	22901	HARW_T1	9	8	-1	0.81	0	-0.81	-0.19	-0.34	1	1	0	1200	1200	0
8/10/2024 15:35	14403	SSLA_T1	5	13	8	1.22	0.51	-0.71	0.2	0.21	2	2	0	1200	1200	0
8/10/2024 15:35	14401	SSLA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 15:36	44201	POIN_T1	0	0	0	0	0	0	-1.26	-1.3	2	2	0	2100	2100	0
8/10/2024 15:38	51204	MTON_T2	0	0	0	0	0	0	-1.02	-1.03	2	2	0	1500	1500	0
8/10/2024 15:39	67103	SPRI_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
8/10/2024 15:41	64101	REFR_T1	10	10	0	1.82	0.87	-0.95	-0.02	-0.04	0	0	0	0	0	0
8/10/2024 15:41	55001	NEWP_T1	0	1	1	0	0	0	-0.35	-0.35	1	1	0	600	600	0
8/10/2024 15:41	55002	NEWP_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/10/2024 15:43	41902	REED_T1	22	40	18	0.57	0.47	-0.1	0.41	0.39	1	1	0	900	900	0
8/10/2024 15:43	47802	MOCA_T2	0	0	0	0	0	0	-0.56	-0.52	0	0	0	0	0	0
8/10/2024 15:47	29402	BELT_T1	14	28	14	0.89	0.81	-0.08	0	0	0	0	0	0	0	0
8/10/2024 15:47	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/10/2024 15:48	40101	HUNT_T2	10	20	10	0.88	0.39	-0.49	-0.26	-0.27	0	0	0	0	0	0
8/10/2024 15:50	43201	MVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 15:50	43202	MVIL_T2	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
8/10/2024 15:56	20403	ASHF_T2	0	1	1	0	0	0	-0.2	-0.17	0	0	0	0	0	0
8/10/2024 15:56	20401	ASHF_T2	6	19	13	0.52	0.66	0.14	0	0	0	0	0	0	0	0
8/10/2024 15:56	42701	AUGU_T1	51	54	3	0.62	0.48	-0.14	0	0	2	2	0	1800	1800	0
8/10/2024 15:56	20402	ASHF_T2	3	9	6	1.5	0.3	-1.2	0	0	0	0	0	0	0	0
8/10/2024 15:58	64101	REFR_T1	10	10	0	0.87	0.43	-0.44	-0.04	-0.01	0	0	0	0	0	0
8/10/2024 15:58	41902	REED_T1	33	34	1	0.52	0.45	-0.07	0.39	0.37	1	1	0	900	900	0
8/10/2024 15:59	42701	AUGU_T1	51	54	3	0.62	0.48	-0.14	0	0	2	2	0	1800	1800	0
8/10/2024 16:01	40901	JESH_T1	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
8/10/2024 16:01	40902	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 16:01	47101	MARL_T1	20	19	-1	0.51	0.4	-0.11	-0.62	-0.46	0	0	0	0	0	0
8/10/2024 16:02	40901	JESH_T1	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
8/10/2024 16:02	40902	JESH_T1	0	1	1	0	0	0	-1.58	-1.61	2	2	0	1200	1200	0
8/10/2024 16:04	40901	JESH_T1	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
8/10/2024 16:04	40902	JESH_T1	0	1	1	0	0	0	-1.58	-1.61	2	2	0	1200	1200	0
8/10/2024 16:05	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 16:05	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 16:09	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 16:11	64101	REFR_T1	10	10	0	1.21	0.43	-0.78	-0.01	-0.02	0	0	0	0	0	0
8/10/2024 16:12	40302	TAMA_T3	1	0	-1	0.3	0	-0.3	-1.03	-1.11	1	1	0	1200	1200	0
8/10/2024 16:12	46001	BERW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/10/2024 16:12	40301	TAMA_T3	1	9	8	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 16:20	64301	LINC_T1	0	0	0	0	0	0	-1	-1.02	1	1	0	600	600	0
8/10/2024 16:20	64305	LINC_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
8/10/2024 16:31	20401	ASHF_T2	9	30	21	0.59	0.43	-0.16	0	0	0	0	0	0	0	0
8/10/2024 16:31	20403	ASHF_T2	2	2	0	0.85	0	-0.85	-0.15	-0.16	0	0	0	0	0	0
8/10/2024 16:31	20402	ASHF_T2	6	9	3	1.72	0.97	-0.75	0	0	0	0	0	0	0	0
8/10/2024 16:32	67605	WARW_T1	0	1	1	0	0.2	0.2	-0.45	-0.56	0	0	0	0	0	0
8/10/2024 16:33	54203	PENN_T1	4	4	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
8/10/2024 16:33	54201	PENN_T1	3	3	0	1	0.87	-0.13	-1.74	-1.71	0	0	0	0	0	0
8/10/2024 16:35	47401	PENS_T1	2	4	2	0.85	0	-0.85	1.5	1.48	0	0	0	0	0	0
8/10/2024 16:35	47403	PENS_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
8/10/2024 16:36	66703	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 16:36	66701	STRA_T1	1	2	1	0.1	0	-0.1	-0.41	-0.39	1	1	0	600	600	0
8/10/2024 16:37	66701	STRA_T1	1	2	1	0.1	0	-0.1	-0.39	-0.42	1	1	0	600	600	0
8/10/2024 16:37	47403	PENS_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
8/10/2024 16:37	47401	PENS_T1	2	4	2	0.85	0	-0.85	1.48	1.42	0	0	0	0	0	0
8/10/2024 16:37	66703	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 16:41	64101	REFR_T1	10	10	0	0.99	0.62	-0.37	0.04	0.01	0	0	0	0	0	0
8/10/2024 16:41	42701	AUGU_T1	54	64	10	0.6	0.88	0.28	0	0	2	2	0	1800	1800	0
8/10/2024 16:51	16201	POFA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 16:51	16203	POFA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 16:52	16201	POFA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 16:52	16203	POFA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 16:53	47403	PENS_T1	1	1	0	2.2	1.9	-0.3	0	0	0	0	0	0	0	0
8/10/2024 16:53	47401	PENS_T1	3	4	1	0.37	0.8	0.43	4.26	4.43	0	0	0	0	0	0
8/10/2024 16:55	16006	DORN_T2	8	11	3	1.93	1.25	-0.68	0	0	0	0	0	0	0	0
8/10/2024 16:55	16002	DORN_T2	9	8	-1	0.47	0.75	0.28	0.07	0.04	1	1	0	1200	1200	0
8/10/2024 16:57	20402	ASHF_T2	9	8	-1	1.52	0.3	-1.22	0	0	0	0	0	0	0	0
8/10/2024 16:57	20401	ASHF_T2	8	31	23	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
8/10/2024 16:57	20403	ASHF_T2	1	1	0	1.2	0	-1.2	-0.17	-0.19	0	0	0	0	0	0
8/10/2024 17:01	25402	LAHA_T2	1	10	9	0.6	0	-0.6	-0.37	-0.47	0	0	0	0	0	0
8/10/2024 17:04	57702	PAXT_T1	0	0	0	0	0	0	-1.4	-1.38	0	0	0	0	0	0
8/10/2024 17:10	55001	NEWP_T1	3	26	23	3.87	0.4	-3.47	-0.29	-0.27	1	1	0	600	600	0
8/10/2024 17:15	46206	DANV_T2	46	19	-27	0.54	0.59	0.05	0	0	0	0	0	0	0	0
8/10/2024 17:15	46204	DANV_T2	18	6	-12	0.24	0.4	0.16	0	0	0	0	0	0	0	0
8/10/2024 17:15	46203	DANV_T2	1	0	-1	0.1	0	-0.1	-2.8	-2.84	0	0	0	0	0	0
8/10/2024 17:16	46206	DANV_T2	46	19	-27	0.54	0.59	0.05	0	0	0	0	0	0	0	0
8/10/2024 17:16	46204	DANV_T2	18	6	-12	0.24	0.4	0.16	0	0	0	0	0	0	0	0
8/10/2024 17:16	46203	DANV_T2	1	0	-1	0.1	0	-0.1	-1.4	-1.42	0	0	0	0	0	0
8/10/2024 17:18	46903	MNTG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 17:18	46901	MNTG_T2	0	0	0	0	0	0	-0.49	-0.75	1	1	0	1200	1200	0
8/10/2024 17:25	59101	WALK_T2	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
8/10/2024 17:26	45501	DERR_T2	2	0	-2	0.2	0	-0.2	-0.36	-0.38	2	2	0	1800	1800	0
8/10/2024 17:27	59101	WALK_T2	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
8/10/2024 17:29	45501	DERR_T2	2	0	-2	0.2	0	-0.2	-0.36	-0.38	2	2	0	1800	1800	0
8/10/2024 17:33	42802	SELI_T1	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
8/10/2024 17:34	46903	MNTG_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/10/2024 17:34	46901	MNTG_T2	0	0	0	0	0	0	-0.75	-0.77	1	1	0	1200	1200	0
8/10/2024 17:35	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 17:36	66202	SISP_T2	0	0	0	0	0	0	-0.16	-0.14	0	0	0	0	0	0
8/10/2024 17:36	51702	OBER_T1	2	2	0	1.95	1.9	-0.05	-1.55	-1.48	1	1	0	600	600	0
8/10/2024 17:37	66202	SISP_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
8/10/2024 17:38	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 17:38	51702	OBER_T1	2	2	0	1.95	1.9	-0.05	-1.48	-1.52	1	1	0	600	600	0
8/10/2024 17:38	54001	SDLE_T1	4	1	-3	0.28	0	-0.28	0	0	1	1	0	600	600	0
8/10/2024 17:39	54001	SDLE_T1	4	1	-3	0.28	0	-0.28	0	0	1	1	0	600	600	0
8/10/2024 17:42	59101	WALK_T2	0	0	0	0	0	0	0.04	0.17	0	0	0	0	0	0
8/10/2024 17:45	67605	WARW_T1	1	1	0	1.1	0.3	-0.8	-0.85	-0.82	0	0	0	0	0	0
8/10/2024 17:47	67602	WARW_T2	0	0	0	0	0	0	-0.02	0	2	2	0	1500	1500	0
8/10/2024 18:10	24702	FLND_T2	1	0	-1	0.2	0	-0.2	0.92	0.81	1	1	0	1200	1200	0
8/10/2024 18:10	24701	FLND_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/10/2024 18:14	61303	EARL_T1	1	2	1	0.5	0.35	-0.15	0.35	0.34	0	0	0	0	0	0
8/10/2024 18:15	63804	HEMP_T1	2	2	0	6.5	6.15	-0.35	0.33	0.33	0	0	0	0	0	0
8/10/2024 18:27	44301	BEAV_T2	7	6	-1	1	0.33	-0.67	0	0	0	0	0	0	0	0
8/10/2024 18:27	44302	BEAV_T2	6	10	4	0.2	0.18	-0.02	0.46	0.46	0	0	0	0	0	0
8/10/2024 18:30	44302	BEAV_T2	7	14	7	0.22	0.2	-0.02	0.46	0.46	0	0	0	0	0	0
8/10/2024 18:30	44301	BEAV_T2	5	5	0	0.7	0.47	-0.23	-0.92	-0.95	1	1	0	600	600	0
8/10/2024 18:31	12005	HATF_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/10/2024 18:31	12002	HATF_T1	0	0	0	0	0	0	-0.87	-0.92	1	1	0	1200	1200	0
8/10/2024 18:32	44301	BEAV_T2	5	5	0	0.7	0.47	-0.23	-0.92	-0.95	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/10/2024 18:32	44302	BEAV_T2	7	14	7	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
8/10/2024 18:37	66201	SISP_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
8/10/2024 18:37	66203	SISP_T2	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
8/10/2024 18:45	61505	EPET_T1	0	0	0	0	0	0	0.55	1.37	0	0	0	0	0	0
8/10/2024 18:49	12004	HATF_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
8/10/2024 18:49	12002	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 18:49	12005	HATF_T1	1	4	3	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/10/2024 18:50	46204	DANV_T2	3	5	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/10/2024 18:50	46203	DANV_T2	0	0	0	0	0	0	-1.52	-1.46	0	0	0	0	0	0
8/10/2024 18:50	46206	DANV_T2	73	69	-4	0.79	0.74	-0.05	0	0	0	0	0	0	0	0
8/10/2024 18:58	44302	BEAV_T2	8	25	17	0.2	0.27	0.07	0	0	0	0	0	0	0	0
8/10/2024 18:58	44301	BEAV_T2	4	3	-1	0.38	0.33	-0.05	-0.94	-0.96	1	1	0	600	600	0
8/10/2024 19:04	44302	BEAV_T2	14	47	33	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/10/2024 19:04	44301	BEAV_T2	3	3	0	0.5	0.6	0.1	-0.94	-0.96	1	1	0	600	600	0
8/10/2024 19:05	46602	LACR_T1	4	25	21	0.2	0.18	-0.02	-0.79	-0.81	0	0	0	0	0	0
8/10/2024 19:19	46101	MACJ_T2	0	0	0	0	0	0	-0.56	-0.57	1	1	0	1200	1200	0
8/10/2024 19:24	12005	HATF_T1	4	4	0	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
8/10/2024 19:24	57006	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 19:24	57004	WHHI_T2	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
8/10/2024 19:24	12004	HATF_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
8/10/2024 19:24	12006	HATF_T1	0	0	0	0	0	0	1.31	1.16	0	0	0	0	0	0
8/10/2024 19:30	10705	CATA_T2	0	0	0	0	0	0	-1.44	-1.48	1	1	0	900	900	0
8/10/2024 20:26	55101	WERT_T1	0	0	0	0	0	0	-1.74	-1.84	3	3	0	2400	2400	0
8/10/2024 20:26	66505	SMAN_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/10/2024 20:26	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 20:27	42201	SHEN_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
8/10/2024 20:48	56504	ROCK_T2	0	0	0	0	0	0	-0.64	-0.67	0	0	0	0	0	0
8/10/2024 20:48	56501	ROCK_T2	133	12	-121	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
8/10/2024 21:07	53902	HALI_T2	1	1	0	4.7	5.3	0.6	0	0	0	0	0	0	0	0
8/10/2024 21:07	53903	HALI_T2	2	2	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
8/10/2024 21:07	53901	HALI_T2	0	0	0	0	0	0	-1.93	-1.99	0	0	0	0	0	0
8/10/2024 21:09	53902	HALI_T2	1	1	0	4.7	5.3	0.6	0	0	0	0	0	0	0	0
8/10/2024 21:09	53901	HALI_T2	0	0	0	0	0	0	-0.97	-1	0	0	0	0	0	0
8/10/2024 21:09	53903	HALI_T2	2	2	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
8/10/2024 21:10	53902	HALI_T2	1	1	0	4.7	5.3	0.6	0	0	0	0	0	0	0	0
8/10/2024 21:10	53901	HALI_T2	0	0	0	0	0	0	-0.97	-1	0	0	0	0	0	0
8/10/2024 21:10	53903	HALI_T2	2	2	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
8/10/2024 21:50	42301	MOWR_T2	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
8/10/2024 21:51	42301	MOWR_T2	0	0	0	0	0	0	-0.42	-0.46	0	0	0	0	0	0
8/10/2024 22:02	16101	BING_T2	0	0	0	0	0	0	0.82	0.84	0	0	0	0	0	0
8/10/2024 22:02	16102	BING_T2	4	10	6	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
8/10/2024 22:02	13303	ORVI_T1	0	0	0	0	0	0	1.01	0.97	0	0	0	0	0	0
8/10/2024 22:03	12005	HATF_T1	5	5	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/10/2024 22:03	12002	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:03	12004	HATF_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
8/10/2024 22:03	12001	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:04	47401	PENS_T1	0	0	0	0	0	0	1.13	1.17	0	0	0	0	0	0
8/10/2024 22:04	59201	THOM_T1	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/10/2024 22:04	54203	PENN_T1	19	20	1	1.33	1.19	-0.14	0	0	0	0	0	0	0	0
8/10/2024 22:04	59202	THOM_T1	14	0	-14	0.14	0	-0.14	0	0	0	0	0	0	0	0
8/10/2024 22:04	54205	PENN_T1	29	52	23	0.1	0.13	0.03	0	0	0	0	0	0	0	0
8/10/2024 22:04	54201	PENN_T1	168	197	29	0.41	0.43	0.02	-2	-2.03	0	0	0	0	0	0
8/10/2024 22:05	52204	DEVO_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
8/10/2024 22:05	23102	MOSC_T2	0	0	0	0	0	0	-3.27	-3.3	4	4	0	4200	4200	0
8/10/2024 22:05	47001	HUGH_T2	3	3	0	8.9	8.9	0	-1.65	-1.68	1	1	0	900	900	0
8/10/2024 22:05	47002	HUGH_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/10/2024 22:05	14502	SCIO_T1	1	1	0	1.2	1.2	0	0.8	0.77	0	0	0	0	0	0
8/10/2024 22:05	52202	DEVO_T2	0	0	0	0	0	0	-1.03	-1.09	0	0	0	0	0	0
8/10/2024 22:05	28702	HAML_T2	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
8/10/2024 22:05	65604	QVIL_T2	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
8/10/2024 22:05	48302	ORWI_T2	2	2	0	1.25	1.3	0.05	-0.49	-0.51	0	0	0	0	0	0
8/10/2024 22:06	24702	FLND_T2	0	0	0	0	0	0	0.66	0.52	1	1	0	1200	1200	0
8/10/2024 22:06	61303	EARL_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
8/10/2024 22:06	46203	DANV_T2	0	0	0	0	0	0	-1.78	-1.81	0	0	0	0	0	0
8/10/2024 22:06	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/10/2024 22:06	12701	MACU_T1	0	0	0	0	0	0	-1	-1	1	1	0	1200	1200	0
8/10/2024 22:06	46206	DANV_T2	3	1	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/10/2024 22:07	48302	ORWI_T2	2	2	0	1.25	1.3	0.05	-0.51	-0.51	0	0	0	0	0	0
8/10/2024 22:07	22903	HARW_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/10/2024 22:07	22905	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:07	63602	LETO_T1	0	0	0	0	0	0	-0.59	-0.67	1	1	0	600	600	0
8/10/2024 22:07	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/10/2024 22:07	22901	HARW_T1	5	0	-5	0.32	0	-0.32	-0.57	-0.55	1	1	0	1200	1200	0
8/10/2024 22:08	61506	EPET_T2	0	0	0	0	0	0	-0.78	-0.77	1	1	0	900	900	0
8/10/2024 22:08	61501	EPET_T2	1	1	0	4.9	5.3	0.4	0	0	0	0	0	0	0	0
8/10/2024 22:08	25402	LAHA_T2	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
8/10/2024 22:08	47401	PENS_T1	0	0	0	0	0	0	1.17	1.14	0	0	0	0	0	0
8/10/2024 22:08	66703	STRA_T1	0	0	0	0	0	0	-0.62	-0.72	0	0	0	0	0	0
8/10/2024 22:08	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	-0.01	-0.04	0	0	0	0	0	0
8/10/2024 22:08	46802	HEPB_T1	4	0	-4	0.23	0	-0.23	-0.13	-0.13	0	0	0	0	0	0
8/10/2024 22:08	16302	ALPA_T2	0	0	0	0	0	0	0.84	0.81	0	0	0	0	0	0
8/10/2024 22:09	64302	LINC_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
8/10/2024 22:09	44202	POIN_T2	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
8/10/2024 22:09	67605	WARW_T1	3	5	2	1.07	0.54	-0.53	0	0	0	0	0	0	0	0
8/10/2024 22:09	66703	STRA_T1	0	0	0	0	0	0	-0.62	-0.72	0	0	0	0	0	0
8/10/2024 22:09	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
8/10/2024 22:09	20403	ASHF_T2	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
8/10/2024 22:09	59201	THOM_T1	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/10/2024 22:09	63403	HONY_T2	0	0	0	0	0	0	-0.71	-0.82	0	0	0	0	0	0
8/10/2024 22:09	59202	THOM_T1	14	0	-14	0.14	0	-0.14	0	0	0	0	0	0	0	0
8/10/2024 22:09	42302	MOWR_T2	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
8/10/2024 22:09	44203	POIN_T2	0	0	0	0	0	0	-0.02	-0.09	1	1	0	900	900	0
8/10/2024 22:09	46602	LACR_T1	15	1	-14	0.18	0.1	-0.08	-0.98	-1.02	0	0	0	0	0	0
8/10/2024 22:09	67603	WARW_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
8/10/2024 22:09	53601	DALM_T2	1	1	0	1.2	0.9	-0.3	-0.05	-0.07	0	0	0	0	0	0
8/10/2024 22:09	16102	BING_T2	4	10	6	0.23	0.22	-0.01	-0.68	-0.69	1	1	0	1200	1200	0
8/10/2024 22:10	66504	SMAN_T2	0	0	0	0	0	0	-2.3	-2.41	2	2	0	2400	2400	0
8/10/2024 22:10	62102	ELAN_T1	0	0	0	0	0	0	1.3	1.27	0	0	0	0	0	0
8/10/2024 22:10	44202	POIN_T2	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
8/10/2024 22:10	20601	GRWO_T2	0	1	1	0	0.9	0.9	0.79	0.84	0	0	0	0	0	0
8/10/2024 22:10	44203	POIN_T2	0	0	0	0	0	0	-0.02	-0.09	1	1	0	900	900	0
8/10/2024 22:10	12704	MACU_T1	0	0	0	0	0	0	-1.21	-1.27	1	1	0	600	600	0
8/10/2024 22:10	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:10	40302	TAMA_T3	0	0	0	0	0	0	-1.18	-1.18	1	1	0	1200	1200	0
8/10/2024 22:10	23001	SAJO_T1	0	0	0	0	0	0	0.18	0.13	0	0	0	0	0	0
8/10/2024 22:10	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:10	63401	HONY_T1	0	0	0	0	0	0	0.11	0.1	1	1	0	600	600	0
8/10/2024 22:10	16103	BING_T2	0	0	0	0	0	0	-0.76	-0.73	1	1	0	600	600	0
8/10/2024 22:10	26401	INOR_T1	1	1	0	9	9.6	0.6	0	0	0	0	0	0	0	0
8/10/2024 22:10	26402	INOR_T1	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
8/10/2024 22:10	22901	HARW_T1	5	0	-5	0.32	0	-0.32	-0.57	-0.55	1	1	0	1200	1200	0
8/10/2024 22:10	22903	HARW_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/10/2024 22:10	12004	HATF_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
8/10/2024 22:10	12005	HATF_T1	5	5	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/10/2024 22:10	16102	BING_T2	4	10	6	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
8/10/2024 22:10	11104	EGYP_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
8/10/2024 22:10	12002	HATF_T1	0	0	0	0	0	0	-1.18	-1.22	1	1	0	1200	1200	0
8/10/2024 22:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/10/2024 22:10	29402	BELT_T1	1	1	0	8.5	8.7	0.2	0	0	0	0	0	0	0	0
8/10/2024 22:10	46206	DANV_T2	3	1	-2	0.3	0	-0.3	3.07	3.01	4	4	0	4200	4200	0
8/10/2024 22:10	12701	MACU_T1	0	0	0	0	0	0	-1	-1	1	1	0	1200	1200	0
8/10/2024 22:10	12001	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:10	22905	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:10	40602	PIGR_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/10/2024 22:11	55001	NEWP_T1	0	0	0	0	0	0	-0.12	-0.16	0	0	0	0	0	0
8/10/2024 22:11	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/10/2024 22:11	67603	WARW_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
8/10/2024 22:11	29402	BELT_T1	1	1	0	8.5	8.7	0.2	0	0	0	0	0	0	0	0
8/10/2024 22:11	42802	SELI_T1	1	10	9	0.1	0.26	0.16	-1	-1.08	0	0	0	0	0	0
8/10/2024 22:11	61102	BERK_T5	0	0	0	0	0	0	0.62	0.31	1	1	0	300	300	0
8/10/2024 22:11	41902	REED_T1	0	0	0	0	0	0	1	0.98	0	0	0	0	0	0
8/10/2024 22:11	55002	NEWP_T1	6	4	-2	1.38	0.78	-0.6	0	0	0	0	0	0	0	0
8/10/2024 22:11	16302	ALPA_T2	0	0	0	0	0	0	0.84	0.81	0	0	0	0	0	0
8/10/2024 22:11	47802	MOCA_T2	0	0	0	0	0	0	-1.37	-1.4	0	0	0	0	0	0
8/10/2024 22:11	41901	REED_T1	9	2	-7	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
8/10/2024 22:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/10/2024 22:11	67605	WARW_T1	3	5	2	1.07	0.54	-0.53	0	0	0	0	0	0	0	0
8/10/2024 22:11	57304	MOAL_T2	0	0	0	0	0	0	-0.44	-0.22	0	0	0	0	0	0
8/10/2024 22:11	52202	DEVO_T2	0	0	0	0	0	0	-1.09	-1.09	0	0	0	0	0	0
8/10/2024 22:11	13503	MCMI_T2	10	0	-10	0.13	0	-0.13	-0.76	-0.76	0	0	0	0	0	0
8/10/2024 22:11	52204	DEVO_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
8/10/2024 22:11	57303	MOAL_T2	1	1	0	7.4	7.1	-0.3	0	0	0	0	0	0	0	0
8/10/2024 22:11	20601	GRWO_T2	0	1	1	0	0.9	0.9	0.79	0.84	0	0	0	0	0	0
8/10/2024 22:11	57702	PAXT_T1	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
8/10/2024 22:11	56504	ROCK_T2	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
8/10/2024 22:12	45501	DERR_T2	0	0	0	0	0	0	-0.59	-0.69	2	2	0	1800	1800	0
8/10/2024 22:12	46903	MNTG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/10/2024 22:12	12001	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:12	47001	HUGH_T2	3	3	0	8.9	8.9	0	-1.68	-1.71	1	1	0	900	900	0
8/10/2024 22:12	16302	ALPA_T2	0	0	0	0	0	0	0.84	0.81	0	0	0	0	0	0
8/10/2024 22:12	66504	SMAN_T2	0	0	0	0	0	0	-1.15	-1.2	1	1	0	1200	1200	0
8/10/2024 22:12	63401	HONY_T1	0	0	0	0	0	0	0.11	0.1	1	1	0	600	600	0
8/10/2024 22:12	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:12	56504	ROCK_T2	0	0	0	0	0	0	-2.65	-2.65	0	0	0	0	0	0
8/10/2024 22:12	12006	HATF_T1	0	0	0	0	0	0	0.91	0.83	0	0	0	0	0	0
8/10/2024 22:12	67602	WARW_T2	0	0	0	0	0	0	0.22	0.28	0	0	0	0	0	0
8/10/2024 22:12	13503	MCMI_T2	10	0	-10	0.13	0	-0.13	-0.76	-0.76	0	0	0	0	0	0
8/10/2024 22:12	46901	MNTG_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
8/10/2024 22:12	55101	WERT_T1	0	0	0	0	0	0	-2.18	-1.3	3	2	-1	2400	1500	-900
8/10/2024 22:12	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/10/2024 22:12	47002	HUGH_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/10/2024 22:12	12005	HATF_T1	5	5	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/10/2024 22:12	63602	LETO_T1	0	0	0	0	0	0	-0.59	-0.67	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/10/2024 22:12	12004	HATF_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
8/10/2024 22:12	44201	POIN_T1	95	110	15	0.3	0.29	-0.01	-4.07	-4.26	4	4	0	4200	4200	0
8/10/2024 22:13	53601	DALM_T2	1	1	0	1.2	0.9	-0.3	-0.05	-0.07	0	0	0	0	0	0
8/10/2024 22:13	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:13	65001	NEFF_T2	11	26	15	0.1	0.11	0.01	-0.98	-1	1	1	0	1200	1200	0
8/10/2024 22:13	14403	SSLA_T1	0	0	0	0	0	0	0.16	0.14	1	1	0	600	600	0
8/10/2024 22:13	42601	TUSC_T1	85	161	76	0.33	0.33	0	-1.65	-1.72	1	1	0	1200	1200	0
8/10/2024 22:13	42802	SELI_T1	1	10	9	0.1	0.26	0.16	-1	-1.08	0	0	0	0	0	0
8/10/2024 22:13	44302	BEAV_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
8/10/2024 22:13	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:13	65003	NEFF_T2	4	9	5	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
8/10/2024 22:13	56501	ROCK_T2	0	0	0	0	0	0	-1.83	-1.85	0	0	0	0	0	0
8/10/2024 22:13	52404	GRPA_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
8/10/2024 22:13	66502	SMAN_T2	0	0	0	0	0	0	-1.07	-1	0	0	0	0	0	0
8/10/2024 22:13	67804	WLAN_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:13	44301	BEAV_T2	1	1	0	0.7	0	-0.7	-1.32	-1.37	1	1	0	600	600	0
8/10/2024 22:13	67605	WARW_T1	3	5	2	1.07	0.54	-0.53	-1.08	-1.12	0	0	0	0	0	0
8/10/2024 22:13	52402	GRPA_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/10/2024 22:13	67801	WLAN_T1	0	0	0	0	0	0	-1.27	-1.3	0	0	0	0	0	0
8/10/2024 22:13	25503	MADI_T1	1	0	-1	0.1	0	-0.1	-0.76	-0.8	0	0	0	0	0	0
8/10/2024 22:13	20403	ASHF_T2	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
8/10/2024 22:13	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:13	25501	MADI_T1	3	3	0	0.67	0.8	0.13	0	0	0	0	0	0	0	0
8/10/2024 22:13	47401	PENS_T1	0	0	0	0	0	0	1.17	1.14	0	0	0	0	0	0
8/10/2024 22:13	52403	GRPA_T2	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
8/10/2024 22:13	52401	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/10/2024 22:14	53901	HALI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/10/2024 22:14	20403	ASHF_T2	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
8/10/2024 22:14	59202	THOM_T1	14	0	-14	0.14	0	-0.14	0	0	0	0	0	0	0	0
8/10/2024 22:14	52204	DEVO_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
8/10/2024 22:14	66202	SISP_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
8/10/2024 22:14	61703	ELIZ_T1	0	0	0	0	0	0	-1.92	-1.93	1	1	0	900	900	0
8/10/2024 22:14	67605	WARW_T1	3	5	2	1.07	0.54	-0.53	-1.08	-1.12	0	0	0	0	0	0
8/10/2024 22:14	59201	THOM_T1	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/10/2024 22:14	53903	HALI_T2	2	2	0	1.25	0.65	-0.6	0	0	0	0	0	0	0	0
8/10/2024 22:14	61701	ELIZ_T1	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
8/10/2024 22:14	53501	EVIL_T2	2	2	0	0.6	0.55	-0.05	-0.01	-0.01	2	2	0	1200	1200	0
8/10/2024 22:14	52202	DEVO_T2	0	0	0	0	0	0	-1.09	-1.09	0	0	0	0	0	0
8/10/2024 22:14	53902	HALI_T2	1	1	0	4.8	5	0.2	-0.76	-0.8	0	0	0	0	0	0
8/10/2024 22:14	45501	DERR_T2	0	0	0	0	0	0	-1.18	-1.38	4	4	0	3600	3600	0
8/10/2024 22:14	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/10/2024 22:14	56501	ROCK_T2	0	0	0	0	0	0	-1.83	-1.85	0	0	0	0	0	0
8/10/2024 22:14	46001	BERW_T1	0	0	0	0	0	0	1.52	1.62	0	0	0	0	0	0
8/10/2024 22:14	66703	STRA_T1	0	0	0	0	0	0	-0.62	-0.72	0	0	0	0	0	0
8/10/2024 22:15	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:15	67605	WARW_T1	5	3	-2	0.54	0.8	0.26	-1.08	-1.12	0	0	0	0	0	0
8/10/2024 22:15	55001	NEWP_T1	0	0	0	0	0	0	-0.25	-0.31	0	0	0	0	0	0
8/10/2024 22:15	42802	SELI_T1	9	10	1	0.2	0.29	0.09	-1	-1.08	0	0	0	0	0	0
8/10/2024 22:15	64101	REFR_T1	0	0	0	0	0	0	1.13	1.11	0	0	0	0	0	0
8/10/2024 22:15	66903	SHIL_T2	224	628	404	0.27	0.32	0.05	0	0	0	0	0	0	0	0
8/10/2024 22:15	61701	ELIZ_T1	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
8/10/2024 22:15	52204	DEVO_T2	1	2	1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
8/10/2024 22:15	54701	NEBL_T1	1	1	0	1	1.7	0.7	0	0	1	1	0	600	600	0
8/10/2024 22:15	65205	PRIN_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
8/10/2024 22:15	66901	SHIL_T2	415	752	337	0.48	0.5	0.02	0.12	0.11	0	0	0	0	0	0
8/10/2024 22:15	57702	PANT_T1	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
8/10/2024 22:15	47401	PENS_T1	0	0	0	0	0	0	1.17	1.14	0	0	0	0	0	0
8/10/2024 22:15	42503	ALTA_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
8/10/2024 22:15	61703	ELIZ_T1	0	0	0	0	0	0	-1.92	-1.93	1	1	0	900	900	0
8/10/2024 22:15	55002	NEWP_T1	4	5	1	0.78	0.86	0.08	-0.16	-0.17	0	0	0	0	0	0
8/10/2024 22:15	67603	WARW_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
8/10/2024 22:15	66902	SHIL_T2	298	756	458	0.27	0.37	0.1	0	0	0	0	0	0	0	0
8/10/2024 22:15	52202	DEVO_T2	0	0	0	0	0	0	-1.09	-1.09	0	0	0	0	0	0
8/10/2024 22:15	20603	GRWO_T2	0	1	1	0	0	0	-0.51	-0.52	1	1	0	900	900	0
8/10/2024 22:15	20601	GRWO_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
8/10/2024 22:15	66703	STRA_T1	0	2	2	0	0.2	0.2	-0.62	-0.72	0	0	0	0	0	0
8/10/2024 22:15	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/10/2024 22:15	67602	WARW_T2	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
8/10/2024 22:16	29402	BELT_T1	1	1	0	8.5	8.9	0.4	0	0	0	0	0	0	0	0
8/10/2024 22:16	63304	GREE_T1	0	0	0	0	0	0	-1.34	-1.36	0	0	0	0	0	0
8/10/2024 22:16	54001	SDLE_T1	2	1	-1	1.25	0.6	-0.65	0	0	1	1	0	600	600	0
8/10/2024 22:16	61701	ELIZ_T1	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
8/10/2024 22:16	52403	GRPA_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/10/2024 22:16	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:16	61703	ELIZ_T1	0	0	0	0	0	0	-1.92	-1.93	1	1	0	900	900	0
8/10/2024 22:16	59101	WALK_T2	0	0	0	0	0	0	-0.24	-0.29	0	0	0	0	0	0
8/10/2024 22:16	64101	REFR_T1	0	0	0	0	0	0	0.85	0.83	0	0	0	0	0	0
8/10/2024 22:16	42903	MIDD_T2	2	2	0	0.15	0.2	0.05	-0.46	-0.3	0	0	0	0	0	0
8/10/2024 22:16	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:16	61102	BERK_T5	0	0	0	0	0	0	1.24	0.61	2	2	0	600	600	0
8/10/2024 22:16	63305	GREE_T1	3	3	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
8/10/2024 22:16	57303	MOAL_T2	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
8/10/2024 22:16	56501	ROCK_T2	0	1	1	0	0.1	0.1	-0.91	-0.93	0	0	0	0	0	0
8/10/2024 22:16	53501	EVIL_T2	2	1	-1	0.55	1.6	1.05	-0.01	-0.01	1	1	0	600	600	0
8/10/2024 22:16	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/10/2024 22:16	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:16	46801	HEPB_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
8/10/2024 22:16	52404	GRPA_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
8/10/2024 22:16	64301	LINC_T1	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
8/10/2024 22:16	57304	MOAL_T2	0	0	0	0	0	0	-0.44	-0.22	0	0	0	0	0	0
8/10/2024 22:16	40101	HUNT_T2	0	1	1	0	0	0	-0.48	-0.51	0	0	0	0	0	0
8/10/2024 22:16	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/10/2024 22:16	46803	HEPB_T2	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
8/10/2024 22:16	52204	DEVO_T2	1	2	1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
8/10/2024 22:16	52501	PROG_T1	0	0	0	0	0	0	0.21	0.19	1	1	0	300	300	0
8/10/2024 22:16	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 22:16	52202	DEVO_T2	0	0	0	0	0	0	-1.09	-1.09	0	0	0	0	0	0
8/10/2024 22:17	47401	PENS_T1	0	0	0	0	0	0	1.17	1.14	0	0	0	0	0	0
8/10/2024 22:17	52403	GRPA_T2	2	2	0	0.2	0.5	0.3	-0.73	-0.75	0	0	0	0	0	0
8/10/2024 22:17	40902	JESH_T1	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
8/10/2024 22:17	46101	MACI_T2	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
8/10/2024 22:17	65604	QVIL_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
8/10/2024 22:17	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:17	20403	ASHF_T2	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
8/10/2024 22:17	53501	EVIL_T2	2	1	-1	0.55	1.6	1.05	0	0	0	0	0	0	0	0
8/10/2024 22:17	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 22:17	64101	REFR_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
8/10/2024 22:17	40101	HUNT_T2	0	1	1	0	0	0	-0.48	-0.51	0	0	0	0	0	0
8/10/2024 22:17	51204	MTON_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
8/10/2024 22:17	40901	JESH_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
8/10/2024 22:17	55002	NEWP_T1	4	5	1	0.78	0.86	0.08	-0.16	-0.17	0	0	0	0	0	0
8/10/2024 22:17	67605	WARW_T1	5	3	-2	0.54	0.8	0.26	-1.08	-1.12	0	0	0	0	0	0
8/10/2024 22:17	53502	EVIL_T2	0	0	0	0	0	0	0.35	0.3	0	0	0	0	0	0
8/10/2024 22:17	66502	SMAN_T2	0	0	0	0	0	0	-1.07	-1	0	0	0	0	0	0
8/10/2024 22:17	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/10/2024 22:17	61703	ELIZ_T1	0	0	0	0	0	0	-1.92	-1.93	1	1	0	900	900	0
8/10/2024 22:17	61701	ELIZ_T1	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
8/10/2024 22:17	59101	WALK_T2	0	0	0	0	0	0	-0.24	-0.29	0	0	0	0	0	0
8/10/2024 22:17	66703	STRA_T1	0	2	2	0	0.2	0.2	0.62	0.72	0	0	0	0	0	0
8/10/2024 22:18	52204	DEVO_T2	1	2	1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
8/10/2024 22:18	52501	PROG_T1	0	0	0	0	0	0	0.21	0.19	1	1	0	300	300	0
8/10/2024 22:18	56501	ROCK_T2	0	1	1	0	0.1	0.1	-0.91	-0.93	0	0	0	0	0	0
8/10/2024 22:18	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 22:18	44801	EDAN_T2	1	1	0	1	1	0	-3.13	-3.12	0	0	0	0	0	0
8/10/2024 22:18	63401	HONY_T1	0	0	0	0	0	0	0.11	0.1	1	1	0	600	600	0
8/10/2024 22:18	47401	PENS_T1	0	0	0	0	0	0	1.17	1.14	0	0	0	0	0	0
8/10/2024 22:18	66505	SMAN_T2	0	0	0	0	0	0	-0.18	-0.3	3	3	0	2100	2100	0
8/10/2024 22:18	67103	SPRI_T1	0	0	0	0	0	0	-0.83	-0.81	0	0	0	0	0	0
8/10/2024 22:18	55101	WERT_T1	0	0	0	0	0	0	-8.7	-5.21	12	8	-4	9600	6000	-3600
8/10/2024 22:18	53501	EVIL_T2	2	1	-1	0.55	1.6	1.05	-0.01	-0.01	1	1	0	600	600	0
8/10/2024 22:18	52402	GRPA_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
8/10/2024 22:18	52403	GRPA_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/10/2024 22:18	42802	SELI_T1	9	10	1	0.2	0.29	0.09	0	0	0	0	0	0	0	0
8/10/2024 22:18	42801	SELI_T1	0	0	0	0	0	0	-2.25	-2.39	1	1	0	1200	1200	0
8/10/2024 22:18	23001	SAJO_T1	0	0	0	0	0	0	0.18	0.13	0	0	0	0	0	0
8/10/2024 22:18	21601	EYNO_T1	0	1	1	0	0.1	0.1	0.24	0.24	0	0	0	0	0	0
8/10/2024 22:18	52202	DEVO_T2	0	0	0	0	0	0	-1.09	-1.09	0	0	0	0	0	0
8/10/2024 22:19	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	-1.32	-1.37	1	1	0	600	600	0
8/10/2024 22:19	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:19	55001	NEWP_T1	0	0	0	0	0	0	-0.12	-0.16	0	0	0	0	0	0
8/10/2024 22:19	53601	DALM_T2	1	1	0	0.9	1	0.1	-0.05	-0.07	0	0	0	0	0	0
8/10/2024 22:19	52403	GRPA_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/10/2024 22:19	60502	NMAN_T2	0	0	0	0	0	0	-0.1	-0.19	0	0	0	0	0	0
8/10/2024 22:19	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 22:19	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.59	-0.69	2	2	0	1800	1800	0
8/10/2024 22:19	52202	DEVO_T2	0	0	0	0	0	0	-1.09	-1.09	0	0	0	0	0	0
8/10/2024 22:19	67602	WARW_T2	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
8/10/2024 22:19	52402	GRPA_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
8/10/2024 22:19	51702	OBER_T1	2	2	0	3	3.2	0.2	-1.87	-1.89	1	1	0	600	600	0
8/10/2024 22:19	40901	JESH_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
8/10/2024 22:19	55002	NEWP_T1	4	5	1	0.78	0.86	0.08	0	0	0	0	0	0	0	0
8/10/2024 22:19	52204	DEVO_T2	1	2	1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
8/10/2024 22:19	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:19	56501	ROCK_T2	0	1	1	0	0.1	0.1	-0.91	-0.93	0	0	0	0	0	0
8/10/2024 22:19	56504	ROCK_T2	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
8/10/2024 22:20	47101	MARL_T1	2	1	-1	0.5	0	-0.5	-0.5	-0.59	0	0	0	0	0	0
8/10/2024 22:20	14403	SSLA_T1	0	0	0	0	0	0	0.16	0.14	1	1	0	600	600	0
8/10/2024 22:20	40902	JESH_T1	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
8/10/2024 22:20	46206	DANV_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/10/2024 22:20	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:20	42802	SELI_T1	9	10	1	0.2	0.29	0.09	-1	-1.08	0	0	0	0	0	0
8/10/2024 22:20	40901	JESH_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
8/10/2024 22:20	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.59	-0.69	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/10/2024 22:20	43202	MVIL_T2	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
8/10/2024 22:20	46102	MACI_T1	0	0	0	0	0	0	0.86	0.86	0	0	0	0	0	0
8/10/2024 22:20	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:20	46203	DANV_T2	0	0	0	0	0	0	-3.61	-3.64	0	0	0	0	0	0
8/10/2024 22:20	44203	POIN_T2	0	0	0	0	0	0	-0.02	-0.09	1	1	0	900	900	0
8/10/2024 22:20	44202	POIN_T2	1	1	0	2.8	2.6	-0.2	0	0	0	0	0	0	0	0
8/10/2024 22:20	53802	MBRG_T2	0	0	0	0	0	0	-0.02	-0.07	0	0	0	0	0	0
8/10/2024 22:20	64101	REFR_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
8/10/2024 22:20	45402	WBLO_T2	0	2	2	0	0.5	0.5	-1.43	-1.47	1	1	0	900	900	0
8/10/2024 22:21	22901	HARW_T1	0	0	0	0	0	0	-0.57	-0.55	1	1	0	1200	1200	0
8/10/2024 22:21	40101	HUNT_T2	0	1	1	0	0	0	-0.48	-0.51	0	0	0	0	0	0
8/10/2024 22:21	46801	HEPB_T2	2	2	0	0.2	0.25	0.05	0.83	0.78	0	0	0	0	0	0
8/10/2024 22:21	14702	TREX_T2	0	0	0	0	0	0	1.42	1.35	0	0	0	0	0	0
8/10/2024 22:21	47401	PENS_T1	0	0	0	0	0	0	1.17	1.14	0	0	0	0	0	0
8/10/2024 22:21	41902	REED_T1	0	0	0	0	0	0	1	0.98	0	0	0	0	0	0
8/10/2024 22:21	55101	WERT_T1	0	0	0	0	0	0	-2.18	-1.3	3	2	-1	2400	1500	-900
8/10/2024 22:21	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 22:21	22903	HARW_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
8/10/2024 22:21	46203	DANV_T2	0	0	0	0	0	0	-1.81	-1.82	0	0	0	0	0	0
8/10/2024 22:21	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2024 22:21	52403	GRPA_T2	2	2	0	0.2	0.5	0.3	-0.73	-0.75	0	0	0	0	0	0
8/10/2024 22:21	13503	MCMI_T2	0	23	23	0	0.14	0.14	-0.76	-0.78	0	0	0	0	0	0
8/10/2024 22:21	64101	REFR_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
8/10/2024 22:21	11104	EGYP_T1	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
8/10/2024 22:21	16002	DORN_T2	0	0	0	0	0	0	-0.32	-0.35	1	1	0	1200	1200	0
8/10/2024 22:21	57304	MOAL_T2	0	0	0	0	0	0	-0.44	-0.22	0	0	0	0	0	0
8/10/2024 22:21	57303	MOAL_T2	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
8/10/2024 22:21	46206	DANV_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/10/2024 22:21	15403	WALL_T1	0	0	0	0	0	0	-0.39	-0.39	1	1	0	1200	1200	0
8/10/2024 22:21	47101	MARL_T1	2	1	-1	0.5	0	-0.5	-0.5	-0.59	0	0	0	0	0	0
8/10/2024 22:21	41901	REED_T1	2	4	2	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
8/10/2024 22:21	22905	HARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/10/2024 22:21	54001	SDLE_T1	2	1	-1	1.25	0.6	-0.65	0	0	1	1	0	600	600	0
8/10/2024 22:22	51702	OBER_T1	2	2	0	3	3.2	0.2	-1.89	-1.9	1	1	0	600	600	0
8/10/2024 22:22	43202	MVIL_T2	0	0	0	0	0	0	-0.92	-0.95	0	0	0	0	0	0
8/10/2024 22:22	12701	MACU_T1	0	0	0	0	0	0	-2	-2	2	2	0	2400	2400	0
8/10/2024 22:22	16302	ALPA_T2	0	0	0	0	0	0	0.81	0.81	0	0	0	0	0	0
8/10/2024 22:22	66703	STRA_T1	0	2	2	0	0.2	0.2	-0.72	-0.73	0	0	0	0	0	0
8/10/2024 22:22	60502	NMAN_T2	0	0	0	0	0	0	-0.19	-0.14	0	0	0	0	0	0
8/10/2024 22:23	11104	EGYP_T1	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
8/10/2024 22:23	46901	MNTG_T2	0	0	0	0	0	0	0.23	0.18	0	0	0	0	0	0
8/10/2024 22:23	20403	ASHF_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
8/10/2024 22:23	57006	WHHI_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
8/10/2024 22:23	14403	SSLA_T1	0	0	0	0	0	0	0.14	0.12	1	1	0	600	600	0
8/10/2024 22:23	64305	LINC_T1	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
8/10/2024 22:23	57004	WHHI_T2	0	0	0	0	0	0	-1.11	-1.1	0	0	0	0	0	0
8/10/2024 22:23	14702	TREX_T2	0	0	0	0	0	0	1.42	1.35	0	0	0	0	0	0
8/10/2024 22:23	47401	PENS_T1	0	0	0	0	0	0	1.14	1.15	0	0	0	0	0	0
8/10/2024 22:23	67605	WARW_T1	5	3	-2	0.54	0.8	0.26	-1.12	-1.07	0	0	0	0	0	0
8/10/2024 22:23	10705	CATA_T2	0	0	0	0	0	0	-1.8	-1.8	1	1	0	900	900	0
8/10/2024 22:23	57002	WHHI_T2	1	1	0	8.7	0	-8.7	0	0	0	0	0	0	0	0
8/10/2024 22:23	42903	MIDD_T2	2	2	0	0.15	0.2	0.05	-0.3	-0.31	0	0	0	0	0	0
8/10/2024 22:23	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/10/2024 22:23	42201	SHEN_T2	0	0	0	0	0	0	1.01	1	0	0	0	0	0	0
8/10/2024 22:24	55002	NEWP_T1	4	5	1	0.78	0.86	0.08	0	0	0	0	0	0	0	0
8/10/2024 22:24	45402	WBLO_T2	0	2	2	0	0.5	0.5	-1.47	-1.44	1	1	0	900	900	0
8/10/2024 22:24	67602	WARW_T2	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
8/10/2024 22:24	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/10/2024 22:24	42802	SELI_T1	9	10	1	0.2	0.29	0.09	-1.08	-1.06	0	0	0	0	0	0
8/10/2024 22:24	55101	WERT_T1	0	0	0	0	0	0	-1.3	-1.26	2	2	0	1500	1500	0
8/10/2024 22:24	55001	NEWP_T1	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
8/10/2024 22:24	15402	WALL_T1	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
8/10/2024 22:25	41902	REED_T1	0	0	0	0	0	0	0.98	0.92	0	0	0	0	0	0
8/10/2024 22:25	67605	WARW_T1	5	3	-2	0.54	0.8	0.26	-1.12	-1.07	0	0	0	0	0	0
8/10/2024 22:25	41901	REED_T1	2	4	2	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
8/10/2024 22:25	64101	REFR_T1	0	0	0	0	0	0	0.28	0.23	0	0	0	0	0	0
8/10/2024 22:25	46203	DANV_T2	0	0	0	0	0	0	-1.82	-1.9	0	0	0	0	0	0
8/10/2024 22:25	67603	WARW_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
8/10/2024 22:25	46206	DANV_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/10/2024 22:25	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	-0.04	1.25	0	0	0	0	0	0
8/10/2024 22:26	42802	SELI_T1	9	10	1	0.2	0.29	0.09	-2.15	-2.13	0	0	0	0	0	0
8/10/2024 22:26	53501	EVIL_T2	2	1	-1	0.55	1.6	1.05	-0.01	-0.01	1	1	0	600	600	0
8/10/2024 22:26	59101	WALK_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
8/10/2024 22:26	63304	GREE_T1	0	0	0	0	0	0	-1.36	-1.35	0	0	0	0	0	0
8/10/2024 22:26	63305	GREE_T1	3	3	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
8/10/2024 22:26	52403	GRPA_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/10/2024 22:26	52402	GRPA_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
8/10/2024 22:26	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	-1.37	-1.39	1	1	0	600	600	0
8/10/2024 22:26	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/10/2024 22:28	64101	REFR_T1	0	0	0	0	0	0	0.28	0.23	0	0	0	0	0	0
8/10/2024 22:28	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.69	-0.69	2	2	0	1800	1800	0
8/10/2024 22:29	40101	HUNT_T2	0	1	1	0	0	0	-0.51	-0.52	0	0	0	0	0	0
8/10/2024 22:31	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/10/2024 22:31	65207	PRIN_T4	10	2	-8	0.12	0.15	0.03	0	0	0	0	0	0	0	0
8/10/2024 22:32	43202	MVIL_T2	0	0	0	0	0	0	-0.92	-0.95	0	0	0	0	0	0
8/10/2024 22:32	44302	BEAV_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
8/10/2024 22:38	66303	MCGO_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/10/2024 22:38	66302	MCGO_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
8/10/2024 22:40	64101	REFR_T1	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
8/10/2024 22:50	12002	HATF_T1	0	0	0	0	0	0	-1.25	0.04	1	0	-1	1200	0	-1200
8/10/2024 22:50	12004	HATF_T1	7	0	-7	0.11	0	-0.11	0	0	0	0	0	0	0	0
8/10/2024 22:50	12005	HATF_T1	5	4	-1	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
8/11/2024 0:54	65901	SAKR_T2	1	1	0	8.8	9	0.2	-1.13	-1.14	1	1	0	900	900	0
8/11/2024 2:57	59101	WALK_T2	23	17	-6	0.13	0.12	-0.01	-0.51	-0.56	0	0	0	0	0	0
8/11/2024 6:49	12603	MACA_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
8/11/2024 6:50	24204	PROV_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
8/11/2024 6:50	24201	PROV_T3	1	1	0	6	6.1	0.1	-1.43	-1.41	1	1	0	1200	1200	0
8/11/2024 6:56	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/11/2024 6:56	10702	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/11/2024 6:56	10703	CATA_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
8/11/2024 6:56	29402	BELT_T1	1	1	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
8/11/2024 6:56	10903	COOP_T2	89	92	3	0.24	0.25	0.01	0	0	0	0	0	0	0	0
8/11/2024 6:57	10703	CATA_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
8/11/2024 6:57	10702	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/11/2024 7:16	11903	ETEX_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
8/11/2024 7:17	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/11/2024 7:20	15202	SFAR_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
8/11/2024 7:22	24801	VALM_T1	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
8/11/2024 7:27	11103	EGYP_T1	0	0	0	0	0	0	-1	-0.99	0	0	0	0	0	0
8/11/2024 7:28	63305	GREE_T1	0	0	0	0	0	0	-2.18	-2.2	1	1	0	900	900	0
8/11/2024 7:30	61503	EPET_T1	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
8/11/2024 7:30	11103	EGYP_T1	0	0	0	0	0	0	-1	-0.99	0	0	0	0	0	0
8/11/2024 7:32	53803	MBRG_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
8/11/2024 7:38	42204	SHEN_T2	0	0	0	0	0	0	-0.68	-0.68	1	1	0	1200	1200	0
8/11/2024 7:38	42201	SHEN_T2	3	3	0	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
8/11/2024 7:39	16301	ALPA_T1	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
8/11/2024 7:40	16301	ALPA_T1	2	1	-1	0.35	0.4	0.05	-0.39	-0.33	0	0	0	0	0	0
8/11/2024 7:41	10504	CRAC_T1	0	0	0	0	0	0	0.78	0.82	0	0	0	0	0	0
8/11/2024 7:44	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 7:46	46101	MACI_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
8/11/2024 7:50	14201	EALL_T1	0	0	0	0	0	0	-0.71	-0.76	0	0	0	0	0	0
8/11/2024 7:50	13303	ORVI_T1	0	1	1	0	0	0	0.73	0.79	0	0	0	0	0	0
8/11/2024 7:51	13303	ORVI_T1	0	1	1	0	0	0	0.79	0.78	0	0	0	0	0	0
8/11/2024 8:00	12006	HATF_T1	0	0	0	0	0	0	0.55	0.57	0	0	0	0	0	0
8/11/2024 8:00	20603	GRWO_T2	0	0	0	0	0	0	-0.64	-0.65	1	1	0	900	900	0
8/11/2024 8:01	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 8:02	53501	EVIL_T2	3	3	0	0.6	0.47	-0.13	0	0	0	0	0	0	0	0
8/11/2024 8:02	53502	EVIL_T2	0	0	0	0	0	0	0.08	0.12	0	0	0	0	0	0
8/11/2024 8:02	40101	HUNT_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
8/11/2024 8:03	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
8/11/2024 8:03	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
8/11/2024 8:05	12605	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 8:05	66504	SMAN_T2	0	0	0	0	0	0	-1.61	-1.63	1	1	0	1200	1200	0
8/11/2024 8:07	66504	SMAN_T2	0	0	0	0	0	0	-1.63	-1.57	1	1	0	1200	1200	0
8/11/2024 8:09	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 8:10	66504	SMAN_T2	0	0	0	0	0	0	-1.63	-1.57	1	1	0	1200	1200	0
8/11/2024 8:15	46401	FLEM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/11/2024 8:15	46402	FLEM_T2	0	0	0	0	0	0	-0.04	-0.01	1	1	0	600	600	0
8/11/2024 8:16	63303	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 8:16	63305	GREE_T1	0	0	0	0	0	0	-2.17	-2.17	1	1	0	900	900	0
8/11/2024 8:17	53501	EVIL_T2	3	3	0	0.47	0.2	-0.27	0	0	0	0	0	0	0	0
8/11/2024 8:17	53502	EVIL_T2	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
8/11/2024 8:18	48301	ORWI_T1	2	2	0	4.3	4.2	-0.1	0.09	0.15	0	0	0	0	0	0
8/11/2024 8:24	60801	BUCK_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
8/11/2024 8:25	42203	SHEN_T2	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
8/11/2024 8:25	42201	SHEN_T2	3	3	0	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
8/11/2024 8:28	45501	DERR_T2	0	0	0	0	0	0	0.28	0.23	1	1	0	600	600	0
8/11/2024 8:29	60801	BUCK_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
8/11/2024 8:29	45501	DERR_T2	0	0	0	0	0	0	0.28	0.23	1	1	0	600	600	0
8/11/2024 8:30	40101	HUNT_T2	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
8/11/2024 8:31	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 8:32	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 8:37	42201	SHEN_T2	3	2	-1	0.37	0.3	-0.07	0.42	0.46	0	0	0	0	0	0
8/11/2024 8:39	42201	SHEN_T2	3	2	-1	0.37	0.3	-0.07	0.42	0.46	0	0	0	0	0	0
8/11/2024 8:40	42201	SHEN_T2	3	2	-1	0.37	0.3	-0.07	0.42	0.46	0	0	0	0	0	0
8/11/2024 8:42	45802	HEGI_T2	34	28	-6	0.49	0.44	-0.05	0.79	0.78	0	0	0	0	0	0
8/11/2024 8:45	45802	HEGI_T2	18	40	22	0.38	0.54	0.16	0.79	0.78	0	0	0	0	0	0
8/11/2024 8:47	64902	MILL_T2	0	0	0	0	0	0	-1.09	-1.08	1	1	0	900	900	0
8/11/2024 8:48	52403	GRPA_T2	1	0	-1	2.9	0	-2.9	-0.62	-0.58	0	0	0	0	0	0
8/11/2024 8:49	41902	REED_T1	0	0	0	0	0	0	0.88	0.91	0	0	0	0	0	0
8/11/2024 8:50	64101	REFR_T1	0	0	0	0	0	0	1.16	1.14	0	0	0	0	0	0
8/11/2024 8:51	64902	MILL_T2	0	0	0	0	0	0	-1.09	-1.08	1	1	0	900	900	0
8/11/2024 8:52	41902	REED_T1	0	0	0	0	0	0	0.91	0.86	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/11/2024 8:53	64101	REFR_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
8/11/2024 8:53	41902	REED_T1	0	0	0	0	0	0	0.91	0.86	0	0	0	0	0	0
8/11/2024 8:54	64101	REFR_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
8/11/2024 8:58	20403	ASHF_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
8/11/2024 8:59	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 8:59	16006	DORN_T2	0	0	0	0	0	0	-0.85	-0.8	0	0	0	0	0	0
8/11/2024 9:01	62102	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 9:01	40101	HUNT_T2	0	0	0	0	0	0	-0.63	-0.58	0	0	0	0	0	0
8/11/2024 9:02	62102	ELAN_T1	0	0	0	0	0	0	0.78	0.84	0	0	0	0	0	0
8/11/2024 9:02	13503	MCMI_T2	0	1	1	0	0.5	0.5	-0.01	-0.01	0	0	0	0	0	0
8/11/2024 9:05	41902	REED_T1	0	1	1	0	0	0	0.91	0.86	0	0	0	0	0	0
8/11/2024 9:05	47401	PENS_T1	2	3	1	0.35	0.9	0.55	1.01	1.03	0	0	0	0	0	0
8/11/2024 9:06	57702	PAXT_T1	0	0	0	0	0	0	-1.12	-1.05	0	0	0	0	0	0
8/11/2024 9:08	41902	REED_T1	0	1	1	0	0	0	0.86	0.95	0	0	0	0	0	0
8/11/2024 9:09	41902	REED_T1	0	1	1	0	0	0	0.86	0.95	0	0	0	0	0	0
8/11/2024 9:11	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 9:11	20403	ASHF_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
8/11/2024 9:12	29402	BELT_T1	1	4	3	9.2	2.68	-6.52	0	0	0	0	0	0	0	0
8/11/2024 9:13	29402	BELT_T1	1	4	3	9.2	2.68	-6.52	0	0	0	0	0	0	0	0
8/11/2024 9:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/11/2024 9:14	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 9:14	20403	ASHF_T2	0	0	0	0	0	0	0.63	0.66	0	0	0	0	0	0
8/11/2024 9:14	26704	HEML_T2	0	0	0	0	0	0	-0.74	-0.73	1	1	0	1200	1200	0
8/11/2024 9:15	53601	DALM_T2	1	1	0	0.1	0.3	0.2	-0.16	-0.14	0	0	0	0	0	0
8/11/2024 9:16	11102	EGYP_T1	0	1	1	0	0.3	0.3	-0.66	-0.6	0	0	0	0	0	0
8/11/2024 9:17	40601	PIGR_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/11/2024 9:17	40602	PIGR_T1	0	1	1	0	0.2	0.2	-1.17	-1.15	1	1	0	600	600	0
8/11/2024 9:20	47402	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/11/2024 9:20	47401	PENS_T1	3	3	0	0.63	0.9	0.27	2.06	2.07	0	0	0	0	0	0
8/11/2024 9:21	41902	REED_T1	0	1	1	0	0.1	0.1	0.86	0.95	0	0	0	0	0	0
8/11/2024 9:25	41902	REED_T1	0	1	1	0	0.1	0.1	0.95	0.97	0	0	0	0	0	0
8/11/2024 9:31	63501	HEID_TBK1-2	55	56	1	1.64	1.57	-0.07	-0.24	-0.25	1	1	0	900	900	0
8/11/2024 9:32	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 9:33	63501	HEID_TBK1-2	55	56	1	1.64	1.57	-0.07	-0.49	-0.5	2	2	0	1800	1800	0
8/11/2024 9:33	13503	MCMI_T2	1	2	1	0.5	0.65	0.15	-0.01	-0.85	0	0	0	0	0	0
8/11/2024 9:34	13503	MCMI_T2	1	2	1	0.5	0.65	0.15	-0.01	-0.85	0	0	0	0	0	0
8/11/2024 9:35	54506	ENOL_T2	0	0	0	0	0	0	-0.29	-0.25	0	0	0	0	0	0
8/11/2024 9:35	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 9:35	64101	REFR_T1	0	0	0	0	0	0	0.25	0.32	0	0	0	0	0	0
8/11/2024 9:35	65207	PRIN_T4	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/11/2024 9:36	64101	REFR_T1	0	0	0	0	0	0	0.25	0.32	0	0	0	0	0	0
8/11/2024 9:36	47402	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/11/2024 9:36	47401	PENS_T1	3	3	0	0.9	0.63	-0.27	1.04	1.12	0	0	0	0	0	0
8/11/2024 9:37	55001	NEWP_T1	0	1	1	0	0.1	0.1	-0.6	-0.55	1	1	0	600	600	0
8/11/2024 9:37	55002	NEWP_T1	3	3	0	0.9	1.27	0.37	0	0	0	0	0	0	0	0
8/11/2024 9:37	41902	REED_T1	1	1	0	0.1	0.4	0.3	0.97	0.96	0	0	0	0	0	0
8/11/2024 9:39	56501	ROCK_T2	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/11/2024 9:39	56504	ROCK_T2	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
8/11/2024 9:40	67401	WAKE_T2	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
8/11/2024 9:41	41902	REED_T1	1	1	0	0.1	0.4	0.3	0.97	0.96	0	0	0	0	0	0
8/11/2024 9:47	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 9:48	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 9:49	66302	MCGO_T2	0	0	0	0	0	0	-1.39	-1.43	1	1	0	600	600	0
8/11/2024 9:49	66303	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 9:50	51401	LYKE_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
8/11/2024 9:52	12002	HATF_T1	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
8/11/2024 9:52	56501	ROCK_T2	1	2	1	1	3.8	2.8	0.17	0.21	0	0	0	0	0	0
8/11/2024 9:53	56501	ROCK_T2	1	2	1	1	3.8	2.8	0.35	0.42	0	0	0	0	0	0
8/11/2024 9:53	42302	MOWR_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
8/11/2024 9:54	42201	SHEN_T2	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
8/11/2024 9:55	56501	ROCK_T2	1	2	1	1	3.8	2.8	0.17	0.21	0	0	0	0	0	0
8/11/2024 9:55	42801	SELI_T1	0	0	0	0	0	0	-2.36	-2.35	1	1	0	1200	1200	0
8/11/2024 9:55	42201	SHEN_T2	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
8/11/2024 9:56	16101	BING_T2	0	0	0	0	0	0	0.6	0.64	0	0	0	0	0	0
8/11/2024 9:57	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 9:57	67605	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/11/2024 9:57	11901	ETEX_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
8/11/2024 10:00	51202	MTON_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
8/11/2024 10:00	12605	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 10:00	63403	HONY_T2	0	0	0	0	0	0	-0.52	-0.5	1	1	0	600	600	0
8/11/2024 10:00	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 10:00	40505	CRES_T1	3	3	0	4.5	4.43	-0.07	0.39	0.4	0	0	0	0	0	0
8/11/2024 10:00	40504	CRES_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 10:00	65207	PRIN_T4	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/11/2024 10:00	12601	MACA_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
8/11/2024 10:00	52402	GRPA_T2	0	0	0	0	0	0	-0.82	-0.74	0	0	0	0	0	0
8/11/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
8/11/2024 10:00	23102	MOSC_T2	0	0	0	0	0	0	-2.55	-2.46	2	2	0	2400	2400	0
8/11/2024 10:00	41902	REED_T1	1	3	2	0.6	0.6	0	1.92	1.95	0	0	0	0	0	0
8/11/2024 10:00	67503	WEWI_T2	1	1	0	6.1	6.3	0.2	0.04	0.06	0	0	0	0	0	0
8/11/2024 10:00	45802	HEGI_T2	27	30	3	0.47	0.54	0.07	0.74	0.7	0	0	0	0	0	0
8/11/2024 10:00	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/11/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-2.07	-2.01	2	2	0	1800	1800	0
8/11/2024 10:00	48301	ORWI_T1	2	2	0	3.1	3.55	0.45	0.29	0.32	0	0	0	0	0	0
8/11/2024 10:00	12602	MACA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/11/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
8/11/2024 10:07	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	-0.51	-0.5	0	0	0	0	0	0
8/11/2024 10:07	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 10:08	41902	REED_T1	1	3	2	0.6	0.6	0	0.97	0.98	0	0	0	0	0	0
8/11/2024 10:08	64101	REFR_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
8/11/2024 10:09	64101	REFR_T1	0	0	0	0	0	0	1.18	1.25	0	0	0	0	0	0
8/11/2024 10:10	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 10:10	29402	BELT_T1	1	2	1	8	4.5	-3.5	0	0	0	0	0	0	0	0
8/11/2024 10:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/11/2024 10:13	45501	DERR_T2	0	0	0	0	0	0	0.34	0.48	1	1	0	600	600	0
8/11/2024 10:14	42201	SHEN_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
8/11/2024 10:15	63304	GREE_T1	0	0	0	0	0	0	-3	-2.92	0	0	0	0	0	0
8/11/2024 10:15	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/11/2024 10:15	63802	HEMP_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
8/11/2024 10:15	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
8/11/2024 10:15	45501	DERR_T2	0	0	0	0	0	0	0.34	0.48	1	1	0	600	600	0
8/11/2024 10:15	29402	BELT_T1	2	4	2	4.45	2.5	-1.95	0	0	0	0	0	0	0	0
8/11/2024 10:15	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
8/11/2024 10:16	59202	THOM_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/11/2024 10:16	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 10:16	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 10:19	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
8/11/2024 10:20	56504	ROCK_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
8/11/2024 10:20	12704	MACU_T1	0	0	0	0	0	0	-1.33	-1.29	1	1	0	600	600	0
8/11/2024 10:20	57702	PAXT_T1	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
8/11/2024 10:20	56501	ROCK_T2	1	2	1	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
8/11/2024 10:21	56501	ROCK_T2	1	2	1	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
8/11/2024 10:21	56504	ROCK_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
8/11/2024 10:22	23002	SAJO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 10:22	56501	ROCK_T2	1	2	1	0.4	0.15	-0.25	-1.06	-1.08	0	0	0	0	0	0
8/11/2024 10:22	56504	ROCK_T2	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
8/11/2024 10:22	14702	TREX_T2	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
8/11/2024 10:22	23001	SAJO_T1	0	0	0	0	0	0	0.17	0.2	0	0	0	0	0	0
8/11/2024 10:22	42201	SHEN_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
8/11/2024 10:23	14308	SUMN_T1	1	0	-1	0.2	0	-0.2	0.3	0.3	0	0	0	0	0	0
8/11/2024 10:23	56501	ROCK_T2	1	2	1	0.4	0.15	-0.25	-2.12	-2.16	0	0	0	0	0	0
8/11/2024 10:23	14303	SUMN_T1	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
8/11/2024 10:23	14301	SUMN_T1	3	3	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/11/2024 10:24	14702	TREX_T2	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
8/11/2024 10:24	57304	MOAL_T2	0	0	0	0	0	0	-0.55	-0.52	0	0	0	0	0	0
8/11/2024 10:24	56501	ROCK_T2	1	2	1	0.4	0.15	-0.25	-2.12	-2.16	0	0	0	0	0	0
8/11/2024 10:24	57303	MOAL_T2	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
8/11/2024 10:25	56501	ROCK_T2	1	2	1	0.4	0.15	-0.25	-2.12	-2.16	0	0	0	0	0	0
8/11/2024 10:25	20403	ASHF_T2	0	0	0	0	0	0	0.44	0.37	0	0	0	0	0	0
8/11/2024 10:25	42201	SHEN_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
8/11/2024 10:25	55002	NEWP_T1	5	6	1	0.78	1.18	0.4	0	0	0	0	0	0	0	0
8/11/2024 10:25	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 10:25	56504	ROCK_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
8/11/2024 10:25	20401	ASHF_T2	1	2	1	0.3	0.65	0.35	0	0	0	0	0	0	0	0
8/11/2024 10:25	55001	NEWP_T1	0	1	1	0	0.8	0.8	-0.58	-0.58	1	1	0	600	600	0
8/11/2024 10:26	14702	TREX_T2	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
8/11/2024 10:26	55002	NEWP_T1	5	6	1	0.78	1.18	0.4	0	0	0	0	0	0	0	0
8/11/2024 10:26	55001	NEWP_T1	0	1	1	0	0.8	0.8	-0.58	-0.58	1	1	0	600	600	0
8/11/2024 10:26	51402	LYKE_T1	0	0	0	0	0	0	-0.79	-0.79	0	0	0	0	0	0
8/11/2024 10:27	20401	ASHF_T2	1	2	1	0.3	0.65	0.35	0	0	0	0	0	0	0	0
8/11/2024 10:27	42801	SELI_T1	0	0	0	0	0	0	-2.1	-2.08	1	1	0	1200	1200	0
8/11/2024 10:27	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 10:27	20403	ASHF_T2	0	0	0	0	0	0	0.88	0.74	0	0	0	0	0	0
8/11/2024 10:28	29402	BELT_T1	2	4	2	4.45	2.5	-1.95	0	0	0	0	0	0	0	0
8/11/2024 10:28	20401	ASHF_T2	1	2	1	0.3	0.65	0.35	0	0	0	0	0	0	0	0
8/11/2024 10:28	16101	BING_T2	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
8/11/2024 10:28	16102	BING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/11/2024 10:28	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 10:28	20403	ASHF_T2	0	0	0	0	0	0	0.44	0.37	0	0	0	0	0	0
8/11/2024 10:29	59202	THOM_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/11/2024 10:29	11901	ETEX_T2	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
8/11/2024 10:29	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 10:30	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
8/11/2024 10:30	59201	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/11/2024 10:30	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 10:30	59202	THOM_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/11/2024 10:30	63802	HEMP_T1	0	0	0	0	0	0	0.29	0.33	0	0	0	0	0	0
8/11/2024 10:32	20601	GRWO_T2	1	3	2	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
8/11/2024 10:32	20603	GRWO_T2	0	2	2	0	0.1	0.1	-0.47	-0.48	1	1	0	900	900	0
8/11/2024 10:32	59202	THOM_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/11/2024 10:32	63305	GREE_T1	0	0	0	0	0	0	-2.11	-2.11	1	1	0	900	900	0
8/11/2024 10:32	59201	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/11/2024 10:33	63305	GREE_T1	0	0	0	0	0	0	-2.11	-2.11	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/11/2024 10:35	64403	LAND_T1	0	0	0	0	0	0	-1.91	-1.93	1	1	0	900	900	0
8/11/2024 10:35	66303	MCGO_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/11/2024 10:35	66302	MCGO_T2	0	0	0	0	0	0	-1.44	-1.43	1	1	0	600	600	0
8/11/2024 10:35	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 10:36	13503	MCMI_T2	3	6	3	0.67	0.57	-0.1	-1.62	-1.62	0	0	0	0	0	0
8/11/2024 10:37	66303	MCGO_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/11/2024 10:37	66302	MCGO_T2	0	0	0	0	0	0	-1.43	-1.41	1	1	0	600	600	0
8/11/2024 10:37	13503	MCMI_T2	3	6	3	0.67	0.57	-0.1	-0.81	-0.81	0	0	0	0	0	0
8/11/2024 10:38	55002	NEWP_T1	5	6	1	1.14	1.27	0.13	-0.11	-0.1	0	0	0	0	0	0
8/11/2024 10:38	55001	NEWP_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
8/11/2024 10:39	16102	BING_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/11/2024 10:39	16103	BING_T2	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
8/11/2024 10:41	55001	NEWP_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
8/11/2024 10:41	55002	NEWP_T1	5	6	1	1.14	1.27	0.13	-0.11	-0.1	0	0	0	0	0	0
8/11/2024 10:42	29402	BELT_T1	2	4	2	4.5	2.5	-2	0	0	0	0	0	0	0	0
8/11/2024 10:43	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 10:43	20403	ASHF_T2	0	0	0	0	0	0	0.37	0.44	0	0	0	0	0	0
8/11/2024 10:43	20401	ASHF_T2	2	3	1	0.85	0.6	-0.25	0	0	0	0	0	0	0	0
8/11/2024 10:45	45501	DERR_T2	0	0	0	0	0	0	0.4	0.43	1	1	0	600	600	0
8/11/2024 10:46	20603	GRWO_T2	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/11/2024 10:46	46801	HEPB_T2	0	2	2	0	0.1	0.1	0.81	0.81	0	0	0	0	0	0
8/11/2024 10:46	20601	GRWO_T2	3	3	0	0.7	0.73	0.03	0.78	0.8	0	0	0	0	0	0
8/11/2024 10:47	64401	LAND_T1	0	0	0	0	0	0	-1.06	-1.01	1	1	0	600	600	0
8/11/2024 10:47	20601	GRWO_T2	3	3	0	0.7	0.73	0.03	0	0	0	0	0	0	0	0
8/11/2024 10:47	28701	HAML_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
8/11/2024 10:47	28702	HAML_T2	0	4	4	0	0	0	0.25	0.28	0	0	0	0	0	0
8/11/2024 10:47	20603	GRWO_T2	2	1	-1	0.1	0	-0.1	-0.48	-0.44	1	1	0	900	900	0
8/11/2024 10:49	25501	MADI_T1	3	3	0	0.57	0.17	-0.4	0	0	0	0	0	0	0	0
8/11/2024 10:49	25503	MADI_T1	1	2	1	0.2	0.3	0.1	-0.73	-0.72	0	0	0	0	0	0
8/11/2024 10:49	64401	LAND_T1	0	0	0	0	0	0	-1.06	-1.01	1	1	0	600	600	0
8/11/2024 10:49	57702	PAXT_T1	0	0	0	0	0	0	-1	-0.96	0	0	0	0	0	0
8/11/2024 10:53	66703	STRA_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
8/11/2024 10:54	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 10:54	66505	SMAN_T2	0	0	0	0	0	0	0.08	0.44	4	3	-1	2300	1700	-600
8/11/2024 10:54	64101	REFR_T1	0	1	1	0	0	0	0.4	0.19	0	0	0	0	0	0
8/11/2024 10:55	61102	BERK_T5	0	0	0	0	0	0	-0.59	-0.39	1	1	0	300	300	0
8/11/2024 10:55	64101	REFR_T1	0	1	1	0	0	0	0.4	0.19	0	0	0	0	0	0
8/11/2024 11:02	45802	HEGI_T2	1	46	45	0.2	0.89	0.69	0.85	1.07	0	0	0	0	0	0
8/11/2024 11:02	64401	LAND_T1	0	0	0	0	0	0	-1.01	-1.02	1	1	0	600	600	0
8/11/2024 11:03	64401	LAND_T1	0	0	0	0	0	0	-1.01	-1.02	1	1	0	600	600	0
8/11/2024 11:04	59202	THOM_T1	3	3	0	0.27	0.3	0.03	0	0	0	0	0	0	0	0
8/11/2024 11:04	64501	LAVI_T1	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
8/11/2024 11:05	41001	LAUR_T2	47	3	-44	0.23	1.23	1	0	0	0	0	0	0	0	0
8/11/2024 11:05	66303	MCGO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/11/2024 11:05	12801	MICK_T1	0	0	0	0	0	0	-0.75	-0.73	1	1	0	600	600	0
8/11/2024 11:05	41002	LAUR_T2	10	5	-5	0.33	0.5	0.17	0.18	0.2	0	0	0	0	0	0
8/11/2024 11:05	66302	MCGO_T2	0	0	0	0	0	0	-1.41	-1.41	1	1	0	600	600	0
8/11/2024 11:06	64401	LAND_T1	0	0	0	0	0	0	-1.01	-1.02	1	1	0	600	600	0
8/11/2024 11:06	52402	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/11/2024 11:06	52403	GRPA_T2	3	1	-2	0.33	0.1	-0.23	-0.47	-0.48	0	0	0	0	0	0
8/11/2024 11:07	52403	GRPA_T2	3	1	-2	0.33	0.1	-0.23	-0.48	-0.44	0	0	0	0	0	0
8/11/2024 11:07	66504	SMAN_T2	0	1	1	0	0.1	0.1	-2.84	-2.67	2	2	0	2400	2400	0
8/11/2024 11:07	52402	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/11/2024 11:07	58202	NEWV_T1	4	5	1	0.18	0.26	0.08	-0.7	-0.75	0	0	0	0	0	0
8/11/2024 11:09	64101	REFR_T1	0	0	0	0	0	0	0.19	0.23	0	0	0	0	0	0
8/11/2024 11:09	66504	SMAN_T2	0	1	1	0	0.1	0.1	-1.42	-1.34	1	1	0	1200	1200	0
8/11/2024 11:09	55101	WERT_T1	0	0	0	0	0	0	-2.05	-2.12	4	4	0	3000	3000	0
8/11/2024 11:09	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 11:11	53601	DALM_T2	0	0	0	0	0	0	-0.06	-0.03	0	0	0	0	0	0
8/11/2024 11:11	64101	REFR_T1	0	0	0	0	0	0	0.19	0.23	0	0	0	0	0	0
8/11/2024 11:12	23001	SAJO_T1	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
8/11/2024 11:12	23002	SAJO_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/11/2024 11:15	61505	EPET_T1	0	0	0	0	0	0	0.5	0.57	0	0	0	0	0	0
8/11/2024 11:16	45502	DERR_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
8/11/2024 11:16	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.43	0	0	0	0	0	0
8/11/2024 11:17	58402	MORO_T1	0	0	0	0	0	0	-0.23	-0.2	2	2	0	1500	1500	0
8/11/2024 11:17	47001	HUGH_T2	3	4	1	7.17	6.28	-0.89	-0.6	-1.54	0	1	1	0	900	900
8/11/2024 11:18	47001	HUGH_T2	3	4	1	7.17	6.28	-0.89	-0.6	-1.54	0	1	1	0	900	900
8/11/2024 11:18	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.43	0	0	0	0	0	0
8/11/2024 11:18	66302	MCGO_T2	0	0	0	0	0	0	-1.41	-1.38	1	1	0	600	600	0
8/11/2024 11:20	58402	MORO_T1	0	0	0	0	0	0	-0.23	-0.2	2	2	0	1500	1500	0
8/11/2024 11:21	14403	SSLA_T1	0	1	1	0	0	0	0.39	0.44	1	1	0	600	600	0
8/11/2024 11:21	64305	LINC_T1	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
8/11/2024 11:22	67702	WERN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/11/2024 11:22	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 11:22	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/11/2024 11:23	63801	HEMP_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/11/2024 11:23	55101	WERT_T1	0	0	0	0	0	0	-1.06	-1.04	2	2	0	1500	1500	0
8/11/2024 11:23	63804	HEMP_T1	1	1	0	6.3	6.3	0	1.25	1.29	0	0	0	0	0	0
8/11/2024 11:24	65205	PRIN_T1	1	1	0	0.9	1.5	0.6	0	0	0	0	0	0	0	0
8/11/2024 11:25	66505	SMAN_T2	0	0	0	0	0	0	0.45	0.5	3	3	0	1700	1700	0
8/11/2024 11:25	66504	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/11/2024 11:25	67603	WARW_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
8/11/2024 11:25	67605	WARW_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/11/2024 11:25	55101	WERT_T1	0	0	0	0	0	0	-3.17	-3.13	6	6	0	4500	4500	0
8/11/2024 11:26	55101	WERT_T1	0	0	0	0	0	0	-1.06	-1.04	2	2	0	1500	1500	0
8/11/2024 11:28	40603	PIGR_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/11/2024 11:28	40602	PIGR_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
8/11/2024 11:28	40601	PIGR_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
8/11/2024 11:30	61803	EELI_T2	0	0	0	0	0	0	0.45	0.44	1	1	0	600	600	0
8/11/2024 11:30	61801	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 11:32	25402	LAHA_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
8/11/2024 11:34	52403	GRPA_T2	1	1	0	0.1	0.2	0.1	-0.44	-0.45	0	0	0	0	0	0
8/11/2024 11:35	58101	NEKI_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/11/2024 11:35	58102	NEKI_T1	1	1	0	0.8	0.9	0.1	-1.82	-1.75	1	1	0	1200	1200	0
8/11/2024 11:36	52402	GRPA_T2	0	0	0	0	0	0	-0.73	-0.64	0	0	0	0	0	0
8/11/2024 11:36	66701	STRA_T1	0	0	0	0	0	0	0.15	0.16	1	1	0	600	600	0
8/11/2024 11:36	21701	SUBU_T1	1	1	0	7.4	6.7	-0.7	1.35	1.34	0	0	0	0	0	0
8/11/2024 11:36	21705	SUBU_T1	1	1	0	6.8	6.1	-0.7	0	0	0	0	0	0	0	0
8/11/2024 11:36	52403	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/11/2024 11:37	54203	PENN_T1	5	5	0	0.28	0.5	0.22	0	0	0	0	0	0	0	0
8/11/2024 11:37	54201	PENN_T1	3	3	0	1.1	1.07	-0.03	-0.65	-0.63	0	0	0	0	0	0
8/11/2024 11:38	52403	GRPA_T2	1	1	0	0.1	0.2	0.1	-0.45	-0.42	0	0	0	0	0	0
8/11/2024 11:39	59101	WALK_T2	0	0	0	0	0	0	-0.33	-0.2	0	0	0	0	0	0
8/11/2024 11:41	67605	WARW_T1	1	1	0	0.4	0.8	0.4	-0.86	-0.83	0	0	0	0	0	0
8/11/2024 11:41	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/11/2024 11:41	67702	WERN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/11/2024 11:42	67605	WARW_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
8/11/2024 11:42	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 11:42	53601	DALM_T2	0	1	1	0	0.3	0.3	-0.07	-0.06	0	0	0	0	0	0
8/11/2024 11:43	16101	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 11:43	16102	BING_T2	0	5	5	0	0.7	0.7	-0.59	-0.55	1	1	0	1200	1200	0
8/11/2024 11:43	16103	BING_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/11/2024 11:43	67605	WARW_T1	1	1	0	0.4	0.8	0.4	-0.86	-0.83	0	0	0	0	0	0
8/11/2024 11:43	61306	EARL_T1	0	0	0	0	0	0	-1.21	-1.21	0	0	0	0	0	0
8/11/2024 11:43	41501	FAIR_T2	0	0	0	0	0	0	-0.95	-0.95	1	1	0	600	600	0
8/11/2024 11:43	61302	EARL_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/11/2024 11:44	67605	WARW_T1	1	1	0	0.4	0.8	0.4	-0.86	-0.83	0	0	0	0	0	0
8/11/2024 11:44	60801	BUCK_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
8/11/2024 11:45	61303	EARL_T1	0	0	0	0	0	0	0.16	0.22	0	0	0	0	0	0
8/11/2024 11:45	61302	EARL_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/11/2024 11:46	67605	WARW_T1	1	2	1	0.8	0.15	-0.65	-0.86	-0.83	0	0	0	0	0	0
8/11/2024 11:47	61802	EELI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 11:47	15204	SFAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 11:47	61303	EARL_T1	0	0	0	0	0	0	0.16	0.22	0	0	0	0	0	0
8/11/2024 11:47	15203	SFAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 11:47	61302	EARL_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/11/2024 11:47	61801	EELI_T2	0	1	1	0	0.1	0.1	-0.41	-0.43	1	1	0	600	600	0
8/11/2024 11:48	12301	LANA_T2	0	0	0	0	0	0	-0.92	-0.86	1	1	0	1200	1200	0
8/11/2024 11:48	12305	LANA_T2	2	2	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/11/2024 11:51	15204	SFAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 11:51	45802	HEGI_T2	42	45	3	0.78	1.07	0.29	0.11	0.1	1	1	0	900	900	0
8/11/2024 11:51	64101	REFR_T1	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
8/11/2024 11:51	15203	SFAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 11:52	15204	SFAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 11:52	15203	SFAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 11:53	59101	WALK_T2	0	0	0	0	0	0	-0.2	-0.26	0	0	0	0	0	0
8/11/2024 11:55	55002	NEWP_T1	3	5	2	0.9	0.72	-0.18	0	0	0	0	0	0	0	0
8/11/2024 11:55	55001	NEWP_T1	1	1	0	0.4	0.4	0	-0.51	-0.49	1	1	0	600	600	0
8/11/2024 11:55	59101	WALK_T2	0	0	0	0	0	0	-0.2	-0.26	0	0	0	0	0	0
8/11/2024 11:56	15201	SFAR_T1	0	0	0	0	0	0	0.14	0.26	2	2	0	1800	1800	0
8/11/2024 11:56	59101	WALK_T2	0	0	0	0	0	0	-0.2	-0.26	0	0	0	0	0	0
8/11/2024 11:56	64101	REFR_T1	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
8/11/2024 11:56	60902	DONG_T2	0	0	0	0	0	0	1.22	1.21	0	0	0	0	0	0
8/11/2024 11:56	60901	DONG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/11/2024 11:57	55101	WERT_T1	0	0	0	0	0	0	-2.02	-1.88	4	4	0	3000	3000	0
8/11/2024 11:57	53601	DALM_T2	0	1	1	0	0.6	0.6	-0.06	-0.06	0	0	0	0	0	0
8/11/2024 11:57	67605	WARW_T1	1	2	1	0.8	0.15	-0.65	-0.83	-0.84	0	0	0	0	0	0
8/11/2024 11:58	45402	WBLO_T2	1	2	1	0.5	0.8	0.3	-1.33	-1.31	1	1	0	900	900	0
8/11/2024 11:59	67605	WARW_T1	1	2	1	0.8	0.15	-0.65	-0.83	-0.84	0	0	0	0	0	0
8/11/2024 11:59	41502	FAIR_T2	0	0	0	0	0	0	-1.52	-1.42	1	1	0	900	900	0
8/11/2024 11:59	51603	DUKE_T1	0	0	0	0	0	0	-0.55	-0.51	0	0	0	0	0	0
8/11/2024 12:02	40603	PIGR_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
8/11/2024 12:02	63602	LETO_T1	1	0	-1	0.1	0	-0.1	-0.56	-0.49	1	1	0	600	600	0
8/11/2024 12:02	44301	BEAV_T2	0	13	13	0	0.28	0.28	0	0	0	0	0	0	0	0
8/11/2024 12:02	40601	PIGR_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/11/2024 12:02	44302	BEAV_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
8/11/2024 12:02	40602	PIGR_T1	1	1	0	1	0.8	-0.2	-0.94	-0.87	1	1	0	600	600	0
8/11/2024 12:03	64305	LINC_T1	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
8/11/2024 12:04	22805	HAUT_T2	0	0	0	0	0	0	-1.49	-1.49	1	1	0	1200	1200	0
8/11/2024 12:04	22803	HAUT_T2	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/11/2024 12:04	63602	LETO_T1	1	0	-1	0.1	0	-0.1	-0.56	-0.49	1	1	0	600	600	0
8/11/2024 12:06	52403	GRPA_T2	0	1	1	0	0.4	0.4	-0.42	-0.4	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/11/2024 12:06	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 12:07	63602	LETO_T1	1	0	-1	0.1	0	-0.1	-0.49	-0.47	1	1	0	600	600	0
8/11/2024 12:08	55101	WERT_T1	0	0	0	0	0	0	-0.94	-1.85	2	3	1	1500	2400	900
8/11/2024 12:09	52402	GRPA_T2	0	1	1	0	0	0	-0.7	-0.61	0	0	0	0	0	0
8/11/2024 12:09	52403	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/11/2024 12:09	52401	GRPA_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
8/11/2024 12:12	61701	ELIZ_T1	2	2	0	2.75	2.9	0.15	0	0	0	0	0	0	0	0
8/11/2024 12:12	61703	ELIZ_T1	0	0	0	0	0	0	-1.39	-1.39	1	1	0	900	900	0
8/11/2024 12:14	24702	FLND_T2	3	3	0	0.63	0.57	-0.06	-0.15	-0.38	1	1	0	1200	1200	0
8/11/2024 12:14	63303	GREE_T1	0	0	0	0	0	0	-0.84	-0.9	2	2	0	1800	1800	0
8/11/2024 12:14	61701	ELIZ_T1	2	2	0	2.75	2.9	0.15	0	0	0	0	0	0	0	0
8/11/2024 12:14	61703	ELIZ_T1	0	0	0	0	0	0	-1.39	-1.39	1	1	0	900	900	0
8/11/2024 12:15	61701	ELIZ_T1	2	2	0	2.9	2.35	-0.55	0	0	0	0	0	0	0	0
8/11/2024 12:15	61703	ELIZ_T1	0	0	0	0	0	0	-1.39	-1.39	1	1	0	900	900	0
8/11/2024 12:16	44302	BEAV_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
8/11/2024 12:16	61703	ELIZ_T1	0	0	0	0	0	0	-1.39	-1.39	1	1	0	900	900	0
8/11/2024 12:16	61701	ELIZ_T1	2	2	0	2.9	2.35	-0.55	0	0	0	0	0	0	0	0
8/11/2024 12:16	44301	BEAV_T2	9	10	1	0.27	0.27	0	-1.39	-1.35	2	2	0	1200	1200	0
8/11/2024 12:17	44301	BEAV_T2	9	10	1	0.27	0.27	0	-1.39	-1.35	2	2	0	1200	1200	0
8/11/2024 12:17	44302	BEAV_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
8/11/2024 12:17	44801	EDAN_T2	1	1	0	1.4	1.1	-0.3	-1.46	-1.43	0	0	0	0	0	0
8/11/2024 12:21	44203	POIN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 12:21	48302	ORWI_T2	2	2	0	0.75	0.7	-0.05	-0.41	-0.36	0	0	0	0	0	0
8/11/2024 12:21	44202	POIN_T2	0	0	0	0	0	0	-0.7	-0.72	1	1	0	1200	1200	0
8/11/2024 12:22	65603	QVIL_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
8/11/2024 12:22	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 12:23	12601	MACA_T1	2	2	0	0.75	1	0.25	0	0	0	0	0	0	0	0
8/11/2024 12:23	56504	ROCK_T2	0	1	1	0	0.5	0.5	-0.73	-0.69	0	0	0	0	0	0
8/11/2024 12:23	12604	MACA_T1	3	3	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/11/2024 12:23	48302	ORWI_T2	2	2	0	0.75	0.7	-0.05	-0.36	-0.37	0	0	0	0	0	0
8/11/2024 12:23	56501	ROCK_T2	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/11/2024 12:24	67804	WLAN_T1	5	9	4	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
8/11/2024 12:24	67801	WLAN_T1	0	0	0	0	0	0	0.06	-1.08	0	0	0	0	0	0
8/11/2024 12:27	59101	WALK_T2	0	0	0	0	0	0	-0.28	-0.22	0	0	0	0	0	0
8/11/2024 12:28	11601	CEAL_T1	4	4	0	0.68	0	-0.68	0	0	1	1	0	1200	1200	0
8/11/2024 12:29	67603	WARW_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
8/11/2024 12:29	67605	WARW_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
8/11/2024 12:30	67605	WARW_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
8/11/2024 12:30	67603	WARW_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
8/11/2024 12:31	67605	WARW_T1	0	2	2	0	0.6	0.6	-0.81	-0.77	0	0	0	0	0	0
8/11/2024 12:32	44301	BEAV_T2	10	5	-5	0.25	0.4	0.15	-0.67	-0.68	1	1	0	600	600	0
8/11/2024 12:32	44302	BEAV_T2	2	4	2	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
8/11/2024 12:33	67503	WEWI_T2	1	1	0	5.7	5.3	-0.4	-0.44	-0.42	0	0	0	0	0	0
8/11/2024 12:33	42903	MIDD_T2	2	2	0	0.2	0.2	0	0.28	0.43	0	0	0	0	0	0
8/11/2024 12:35	44302	BEAV_T2	2	4	2	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
8/11/2024 12:35	44301	BEAV_T2	10	5	-5	0.25	0.4	0.15	-0.67	-0.68	1	1	0	600	600	0
8/11/2024 12:36	60301	TWVA_T2	0	0	0	0	0	0	-2.89	-2.91	2	2	0	1800	1800	0
8/11/2024 12:37	65604	QVIL_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
8/11/2024 12:37	48302	ORWI_T2	2	2	0	0.7	0.6	-0.1	-0.37	-0.37	0	0	0	0	0	0
8/11/2024 12:38	41902	REED_T1	0	1	1	0	0	0	1.07	1.08	0	0	0	0	0	0
8/11/2024 12:38	55105	WERT_T1	0	0	0	0	0	0	0	-0.02	1	1	0	900	900	0
8/11/2024 12:39	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 12:39	66505	SMAN_T2	1	2	1	0.1	0.95	0.85	0	0	0	0	0	0	0	0
8/11/2024 12:39	66503	SMAN_T2	0	0	0	0	0	0	0.69	0.71	0	0	0	0	0	0
8/11/2024 12:39	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 12:40	59101	WALK_T2	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
8/11/2024 12:43	55002	NEWP_T1	0	0	0	0	0	0	-0.45	-0.46	1	1	0	600	600	0
8/11/2024 12:43	55002	NEWP_T1	1	6	5	3	1.5	-1.5	0	0	0	0	0	0	0	0
8/11/2024 12:44	61304	EARL_T1	0	0	0	0	0	0	-0.35	-0.32	1	1	0	600	600	0
8/11/2024 12:44	61302	EARL_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
8/11/2024 12:45	11507	FREE_T2	0	1	1	0	0	0	0.68	0.75	0	0	0	0	0	0
8/11/2024 12:45	16004	DORN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/11/2024 12:45	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 12:46	22803	HAUT_T2	3	1	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/11/2024 12:46	22805	HAUT_T2	0	10	10	0	0.1	0.1	-1.46	-1.53	1	1	0	1200	1200	0
8/11/2024 12:47	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
8/11/2024 12:49	63401	HONY_T1	0	0	0	0	0	0	0.04	0.19	1	1	0	600	600	0
8/11/2024 12:53	41902	REED_T1	1	2	1	0.1	0.3	0.2	1.08	1.06	0	0	0	0	0	0
8/11/2024 12:54	65901	SAKR_T2	1	1	0	7.8	7.6	-0.2	-1.07	-0.93	2	2	0	1500	1500	0
8/11/2024 12:55	54601	SUMM_T2	0	0	0	0	0	0	-1.46	-1.45	2	2	0	2100	2100	0
8/11/2024 12:56	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/11/2024 12:57	66504	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/11/2024 12:57	66505	SMAN_T2	1	2	1	1	0.95	-0.05	-0.02	0.01	8	8	0	4600	4600	0
8/11/2024 12:57	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/11/2024 12:59	11406	FARM_T1	0	0	0	0	0	0	0.7	0.73	0	0	0	0	0	0
8/11/2024 12:59	11404	FARM_T1	0	1	1	0	0.2	0.2	-0.41	-0.41	1	1	0	1200	1200	0
8/11/2024 12:59	55001	NEWP_T1	0	1	1	0	0.2	0.2	-0.46	-0.41	1	1	0	600	600	0
8/11/2024 12:59	55002	NEWP_T1	1	5	4	2.7	1.06	-1.64	0	0	0	0	0	0	0	0
8/11/2024 12:59	11402	FARM_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/11/2024 13:00	24105	EHAZ_T1	4	4	0	7.28	7.23	-0.05	0	0	0	0	0	0	0	0
8/11/2024 13:00	24101	EHAZ_T1	0	6	6	0	0.7	0.7	0	0	0	0	0	0	0	0
8/11/2024 13:00	24104	EHAZ_T1	0	0	0	0	0	0	-1.99	-1.98	1	1	0	1200	1200	0
8/11/2024 13:00	24102	EHAZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
8/11/2024 13:02	59003	MIFF_T1	0	1	1	0	0.2	0.2	-0.5	-0.48	0	0	0	0	0	0
8/11/2024 13:02	59001	MIFF_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
8/11/2024 13:02	51004	NHAR_T1	1	2	1	7.1	3.55	-3.55	0	0	0	0	0	0	0	0
8/11/2024 13:02	51002	NHAR_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/11/2024 13:02	59002	MIFF_T1	1	5	4	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/11/2024 13:03	24101	EHAZ_T1	0	6	6	0	0.7	0.7	0	0	0	0	0	0	0	0
8/11/2024 13:03	24105	EHAZ_T1	4	4	0	7.28	7.23	-0.05	0	0	0	0	0	0	0	0
8/11/2024 13:03	24102	EHAZ_T1	1	1	0	0.5	0.7	0.2	0.04	0.02	0	0	0	0	0	0
8/11/2024 13:04	26402	INOR_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
8/11/2024 13:04	26401	INOR_T1	1	3	2	8.4	3.87	-4.53	0	0	0	0	0	0	0	0
8/11/2024 13:06	57702	PAXT_T1	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
8/11/2024 13:08	57702	PAXT_T1	0	0	0	0	0	0	-0.78	-0.75	0	0	0	0	0	0
8/11/2024 13:10	67401	WAKE_T2	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
8/11/2024 13:10	45402	WBLO_T2	1	1	0	0.5	0.4	-0.1	-1.17	-1.19	1	1	0	900	900	0
8/11/2024 13:10	51306	WIND_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 13:10	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 13:11	66505	SMAN_T2	2	1	-1	0.95	1	0.05	0	0	0	0	0	0	0	0
8/11/2024 13:11	66502	SMAN_T2	0	0	0	0	0	0	0.06	0.09	0	0	0	0	0	0
8/11/2024 13:11	66504	SMAN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/11/2024 13:11	66501	SMAN_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
8/11/2024 13:12	66505	SMAN_T2	2	1	-1	0.95	1	0.05	0	0	0	0	0	0	0	0
8/11/2024 13:12	66501	SMAN_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
8/11/2024 13:12	66502	SMAN_T2	0	0	0	0	0	0	0.06	0.09	0	0	0	0	0	0
8/11/2024 13:12	66504	SMAN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/11/2024 13:13	66505	SMAN_T2	2	1	-1	0.95	1	0.05	0	0.51	4	3	-1	2300	1700	-600
8/11/2024 13:13	11104	EGYP_T1	11	10	-1	1.42	1.66	0.24	0	0	0	0	0	0	0	0
8/11/2024 13:13	11101	EGYP_T1	0	0	0	0	0	0	-0.01	-0.05	1	1	0	1200	1200	0
8/11/2024 13:13	11102	EGYP_T1	1	1	0	0.6	1.4	0.8	0	0	0	0	0	0	0	0
8/11/2024 13:13	66501	SMAN_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
8/11/2024 13:13	66504	SMAN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/11/2024 13:15	46206	DANV_T2	11	13	2	0.49	0.39	-0.1	1.83	1.84	4	4	0	4200	4200	0
8/11/2024 13:15	53502	EVIL_T2	0	0	0	0	0	0	0.85	0.84	0	0	0	0	0	0
8/11/2024 13:15	53501	EVIL_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
8/11/2024 13:16	63501	HEID_TBK1-2	57	55	-2	1.93	2.07	0.14	0.12	0.15	1	1	0	900	900	0
8/11/2024 13:17	22405	MORG_T2	0	0	0	0	0	0	-1.14	-1.14	0	0	0	0	0	0
8/11/2024 13:17	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 13:17	53501	EVIL_T2	0	1	1	0	0.9	0.9	-0.01	-0.01	1	1	0	600	600	0
8/11/2024 13:17	63501	HEID_TBK1-2	57	55	-2	1.93	2.07	0.14	0.24	0.31	2	2	0	1800	1800	0
8/11/2024 13:18	59003	MIFF_T1	1	0	-1	0.2	0	-0.2	-0.48	-0.46	0	0	0	0	0	0
8/11/2024 13:18	59001	MIFF_T1	1	1	0	1.1	1.8	0.7	0	0	0	0	0	0	0	0
8/11/2024 13:18	59002	MIFF_T1	5	5	0	0.18	0.26	0.08	0	0	0	0	0	0	0	0
8/11/2024 13:18	53501	EVIL_T2	0	1	1	0	0.9	0.9	-0.01	-0.01	2	2	0	1200	1200	0
8/11/2024 13:19	63501	HEID_TBK1-2	57	55	-2	1.93	2.07	0.14	0.12	0.15	1	1	0	900	900	0
8/11/2024 13:20	65502	MOJO_T2	0	0	0	0	0	0	-1.09	-1.07	1	1	0	900	900	0
8/11/2024 13:21	22405	MORG_T2	0	0	0	0	0	0	-1.14	-1.15	0	0	0	0	0	0
8/11/2024 13:22	65503	MOJO_T2	0	0	0	0	0	0	-0.54	-0.5	1	1	0	900	900	0
8/11/2024 13:23	21705	SUBU_T1	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
8/11/2024 13:23	21701	SUBU_T1	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0	0
8/11/2024 13:23	21703	SUBU_T1	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
8/11/2024 13:24	59101	WALK_T2	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
8/11/2024 13:25	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.44	-0.36	1	1	0	600	600	0
8/11/2024 13:25	55002	NEWP_T1	5	5	0	0.94	0.42	-0.52	0	0	0	0	0	0	0	0
8/11/2024 13:26	56501	ROCK_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/11/2024 13:26	15204	SFAR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/11/2024 13:26	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	-0.64	-0.62	0	0	0	0	0	0
8/11/2024 13:26	15203	SFAR_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/11/2024 13:29	11102	EGYP_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
8/11/2024 13:29	53501	EVIL_T2	0	1	1	0	0.9	0.9	-0.01	-0.01	1	1	0	600	600	0
8/11/2024 13:29	11104	EGYP_T1	10	10	0	1.29	1.85	0.56	1.21	1.17	0	0	0	0	0	0
8/11/2024 13:30	29301	DAPP_T1	1	23	22	9.7	3.33	-6.37	0	0	1	1	0	600	600	0
8/11/2024 13:30	11102	EGYP_T1	1	2	1	1.4	1.4	0	0	0	0	0	0	0	0	0
8/11/2024 13:30	11104	EGYP_T1	7	9	2	1.66	1.1	-0.56	1.21	1.17	0	0	0	0	0	0
8/11/2024 13:31	22602	KIMB_T1	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
8/11/2024 13:31	53502	EVIL_T2	0	0	0	0	0	0	0.84	0.79	0	0	0	0	0	0
8/11/2024 13:31	53501	EVIL_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
8/11/2024 13:32	65503	MOJO_T2	0	0	0	0	0	0	-0.54	-0.5	1	1	0	900	900	0
8/11/2024 13:33	11102	EGYP_T1	1	2	1	1.4	1.4	0	0	0	0	0	0	0	0	0
8/11/2024 13:33	63801	HEMP_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/11/2024 13:33	63804	HEMP_T1	1	1	0	6.4	6.3	-0.1	0.1	0.07	0	0	0	0	0	0
8/11/2024 13:33	11104	EGYP_T1	7	9	2	1.66	1.1	-0.56	1.21	1.17	0	0	0	0	0	0
8/11/2024 13:35	15203	SFAR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/11/2024 13:36	21705	SUBU_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
8/11/2024 13:36	21704	SUBU_T1	0	0	0	0	0	0	-2.17	-2.19	2	2	0	2400	2400	0
8/11/2024 13:36	21701	SUBU_T1	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0	0
8/11/2024 13:38	66703	STRA_T1	0	0	0	0	0	0	0.38	-0.37	0	0	0	0	0	0
8/11/2024 13:39	66703	STRA_T1	0	0	0	0	0	0	0.38	-0.37	0	0	0	0	0	0
8/11/2024 13:41	46206	DANV_T2	13	11	-2	0.36	0.98	0.62	0.93	0.88	2	2	0	2100	2100	0
8/11/2024 13:42	42701	AUGU_T1	4	4	0	1.03	0.4	-0.63	0	0	2	2	0	1800	1800	0
8/11/2024 13:43	21504	CEAV_T1	0	2	2	0	0	0	0.34	0.4	0	0	0	0	0	0
8/11/2024 13:44	22901	HARW_T1	5	5	0	0.38	0.18	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/11/2024 13:44	42701	AUGU_T1	4	4	0	1.03	0.4	-0.63	0	0	2	2	0	1800	1800	0
8/11/2024 13:44	22903	HARW_T1	21	22	1	0.67	1.56	0.89	0.33	0.27	0	0	0	0	0	0
8/11/2024 13:45	47002	HUGH_T2	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
8/11/2024 13:45	47001	HUGH_T2	3	3	0	8.2	7.93	-0.27	0	0	0	0	0	0	0	0
8/11/2024 13:47	22903	HARW_T1	21	28	7	1.57	1.55	-0.02	0	0	0	0	0	0	0	0
8/11/2024 13:47	22901	HARW_T1	5	5	0	0.18	0.36	0.18	-0.46	-0.55	1	1	0	1200	1200	0
8/11/2024 13:48	46101	MACI_T2	0	0	0	0	0	0	0.65	0.75	0	0	0	0	0	0
8/11/2024 13:49	59003	MIFF_T1	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
8/11/2024 13:49	44202	POIN_T2	0	1	1	0	0	0	-0.67	-0.68	1	1	0	1200	1200	0
8/11/2024 13:49	59001	MIFF_T1	1	2	1	1.8	0.9	-0.9	0	0	0	0	0	0	0	0
8/11/2024 13:49	44203	POIN_T2	5	5	0	1.7	0	-1.7	0	0	0	0	0	0	0	0
8/11/2024 13:49	59002	MIFF_T1	5	4	-1	0.26	0.1	-0.16	0	0	0	0	0	0	0	0
8/11/2024 13:51	44703	MUNC_T2	0	0	0	0	0	0	1.13	1.12	0	0	0	0	0	0
8/11/2024 13:53	66703	STRA_T1	0	0	0	0	0	0	-0.37	-0.41	0	0	0	0	0	0
8/11/2024 13:56	44302	BEAV_T2	1	5	4	0.3	0.42	0.12	0	0	0	0	0	0	0	0
8/11/2024 13:56	42802	SELI_T1	0	0	0	0	0	0	-0.79	-0.83	0	0	0	0	0	0
8/11/2024 13:56	44301	BEAV_T2	4	9	5	0.25	0.31	0.06	-0.64	-1.28	1	1	0	600	600	0
8/11/2024 13:56	29402	BELT_T1	110	102	-8	0.98	0.88	-0.1	0	0	0	0	0	0	0	0
8/11/2024 13:56	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/11/2024 13:57	42802	SELI_T1	0	0	0	0	0	0	-0.79	-0.83	0	0	0	0	0	0
8/11/2024 13:59	53501	EVIL_T2	1	1	0	0.9	0.8	-0.1	-0.01	-0.01	1	1	0	600	600	0
8/11/2024 14:02	53502	EVIL_T2	0	0	0	0	0	0	0.79	0.75	0	0	0	0	0	0
8/11/2024 14:02	53501	EVIL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/11/2024 14:02	62101	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 14:02	62102	ELAN_T1	0	0	0	0	0	0	1.32	1.42	0	0	0	0	0	0
8/11/2024 14:03	63501	HEID_TBK1-2	55	56	1	2.36	2.45	0.09	0.23	0.16	1	1	0	900	900	0
8/11/2024 14:04	63303	GREE_T1	0	0	0	0	0	0	-0.73	-0.69	2	2	0	1800	1800	0
8/11/2024 14:05	63501	HEID_TBK1-2	55	56	1	2.36	2.45	0.09	0.23	0.16	1	1	0	900	900	0
8/11/2024 14:06	47802	MOCA_T2	0	0	0	0	0	0	-0.63	-0.7	0	0	0	0	0	0
8/11/2024 14:07	13903	SEID_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
8/11/2024 14:08	64101	REFR_T1	0	0	0	0	0	0	0.83	0.78	0	0	0	0	0	0
8/11/2024 14:08	52501	PROG_T1	0	1	1	0	0.2	0.2	-0.94	-0.87	1	1	0	300	300	0
8/11/2024 14:09	64101	REFR_T1	0	0	0	0	0	0	0.83	0.78	0	0	0	0	0	0
8/11/2024 14:10	64101	REFR_T1	0	0	0	0	0	0	2.08	1.95	0	0	0	0	0	0
8/11/2024 14:10	66703	STRA_T1	0	0	0	0	0	0	-0.41	-0.37	0	0	0	0	0	0
8/11/2024 14:11	42201	SHEN_T2	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
8/11/2024 14:12	44301	BEAV_T2	6	9	3	0.3	0.3	0	-1.28	-1.41	1	1	0	600	600	0
8/11/2024 14:12	64101	REFR_T1	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
8/11/2024 14:12	44302	BEAV_T2	2	5	3	0.4	0.44	0.04	0	0	0	0	0	0	0	0
8/11/2024 14:14	53501	EVIL_T2	1	1	0	0.6	0.8	0.2	-0.01	-0.01	1	1	0	600	600	0
8/11/2024 14:14	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 14:15	46205	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/11/2024 14:15	53501	EVIL_T2	1	2	1	0.8	0.75	-0.05	-0.01	-0.01	1	1	0	600	600	0
8/11/2024 14:15	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 14:15	46206	DANV_T2	22	38	16	0.59	0.45	-0.14	1.1	1.18	2	2	0	2100	2100	0
8/11/2024 14:15	44301	BEAV_T2	6	6	0	0.28	0.35	0.07	-1.28	-1.41	1	1	0	600	600	0
8/11/2024 14:15	44302	BEAV_T2	5	5	0	0.42	0.42	0	0	0	0	0	0	0	0	0
8/11/2024 14:16	44302	BEAV_T2	5	5	0	0.42	0.42	0	0	0	0	0	0	0	0	0
8/11/2024 14:16	44301	BEAV_T2	6	6	0	0.28	0.35	0.07	0	0	0	0	0	0	0	0
8/11/2024 14:16	26803	JARR_T1	0	0	0	0	0	0	0.08	0.07	1	1	0	900	900	0
8/11/2024 14:16	46102	MACI_T1	0	0	0	0	0	0	0.88	0.87	0	0	0	0	0	0
8/11/2024 14:17	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
8/11/2024 14:17	25402	LAHA_T2	0	0	0	0	0	0	-0.31	-0.25	0	0	0	0	0	0
8/11/2024 14:21	53501	EVIL_T2	1	2	1	0.8	0.75	-0.05	-0.01	-0.01	1	1	0	600	600	0
8/11/2024 14:23	64101	REFR_T1	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
8/11/2024 14:23	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/11/2024 14:24	56504	ROCK_T2	0	0	0	0	0	0	-0.61	-0.51	0	0	0	0	0	0
8/11/2024 14:24	56501	ROCK_T2	2	4	2	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
8/11/2024 14:26	42701	AUGU_T1	1	2	1	0.3	0	-0.3	0	0	2	2	0	1800	1800	0
8/11/2024 14:26	10705	CATA_T2	0	0	0	0	0	0	-1.46	-1.47	1	1	0	900	900	0
8/11/2024 14:27	57004	WHIH_T2	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
8/11/2024 14:27	44301	BEAV_T2	6	6	0	0.28	0.35	0.07	0	0	0	0	0	0	0	0
8/11/2024 14:27	44302	BEAV_T2	5	5	0	0.42	0.42	0	0	0	0	0	0	0	0	0
8/11/2024 14:29	44302	BEAV_T2	5	5	0	0.42	0.42	0	0	0	0	0	0	0	0	0
8/11/2024 14:29	44301	BEAV_T2	6	6	0	0.28	0.35	0.07	-1.41	-1.28	1	1	0	600	600	0
8/11/2024 14:30	44301	BEAV_T2	6	2	-4	0.35	0.3	-0.05	-1.41	-1.28	1	1	0	600	600	0
8/11/2024 14:30	44302	BEAV_T2	5	2	-3	0.42	0.4	-0.02	0	0	0	0	0	0	0	0
8/11/2024 14:33	57104	SPHI_T2	0	0	0	0	0	0	-1.28	-1.23	1	1	0	900	900	0
8/11/2024 14:33	57101	SPHI_T2	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/11/2024 14:36	53802	MBRG_T2	0	0	0	0	0	0	0.25	0.2	0	0	0	0	0	0
8/11/2024 14:36	44202	POIN_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/11/2024 14:36	53801	MBRG_T2	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
8/11/2024 14:36	44203	POIN_T2	0	2	2	0	0.2	0.2	0.29	0.31	1	1	0	900	900	0
8/11/2024 14:38	64101	REFR_T1	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
8/11/2024 14:39	20401	ASHF_T2	1	3	2	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/11/2024 14:39	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 14:39	20403	ASHF_T2	0	0	0	0	0	0	0.74	0.82	0	0	0	0	0	0
8/11/2024 14:40	21705	SUBU_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
8/11/2024 14:40	21701	SUBU_T1	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
8/11/2024 14:41	42802	SELI_T1	0	0	0	0	0	0	-2.29	-2.21	0	0	0	0	0	0
8/11/2024 14:42	46004	BERW_T2	0	1	1	0	0	0	-0.07	-0.13	0	0	0	0	0	0
8/11/2024 14:43	44301	BEAV_T2	6	2	-4	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
8/11/2024 14:43	42801	SELI_T1	0	0	0	0	0	0	-2.02	-1.98	1	1	0	1200	1200	0
8/11/2024 14:43	44302	BEAV_T2	5	2	-3	0.42	0.4	-0.02	0.38	0.38	0	0	0	0	0	0
8/11/2024 14:44	46204	DANV_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/11/2024 14:44	59202	THOM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/11/2024 14:44	46203	DANV_T2	0	0	0	0	0	0	-1.62	-1.6	0	0	0	0	0	0
8/11/2024 14:44	46206	DANV_T2	35	31	-4	0.61	0.51	-0.1	0	0	0	0	0	0	0	0
8/11/2024 14:45	42802	SELI_T1	0	0	0	0	0	0	-0.76	-0.74	0	0	0	0	0	0
8/11/2024 14:46	12701	MACU_T1	0	0	0	0	0	0	-0.8	-0.82	1	1	0	1200	1200	0
8/11/2024 14:46	59202	THOM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/11/2024 14:47	59202	THOM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/11/2024 14:47	12701	MACU_T1	0	0	0	0	0	0	-0.8	-0.82	1	1	0	1200	1200	0
8/11/2024 14:48	64902	MILL_T2	0	0	0	0	0	0	-0.67	-0.64	1	1	0	900	900	0
8/11/2024 14:48	59202	THOM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/11/2024 14:48	53801	MBRG_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/11/2024 14:48	53803	MBRG_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
8/11/2024 14:49	12701	MACU_T1	0	0	0	0	0	0	-1.59	-1.65	2	2	0	2400	2400	0
8/11/2024 14:49	43202	MVIL_T2	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
8/11/2024 14:50	53803	MBRG_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
8/11/2024 14:50	53801	MBRG_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/11/2024 14:51	65001	NEFF_T2	0	0	0	0	0	0	-0.58	-0.56	1	1	0	1200	1200	0
8/11/2024 14:51	65003	NEFF_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/11/2024 14:53	14702	TREX_T2	0	0	0	0	0	0	0.97	1	0	0	0	0	0	0
8/11/2024 14:53	43202	MVIL_T2	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
8/11/2024 14:54	59101	WALK_T2	0	0	0	0	0	0	-0.15	0.4	0	0	0	0	0	0
8/11/2024 14:55	14702	TREX_T2	0	0	0	0	0	0	0.97	1	0	0	0	0	0	0
8/11/2024 14:56	55001	NEWP_T1	0	1	1	0	0	0	-0.33	-0.32	1	1	0	600	600	0
8/11/2024 14:56	55002	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 14:58	14204	EALL_T2	0	3	3	0	0	0	-0.17	-0.25	0	0	0	0	0	0
8/11/2024 14:58	42701	AUGU_T1	0	3	3	0	0.95	0.95	0	0	2	2	0	1800	1800	0
8/11/2024 14:58	14202	EALL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 14:59	59202	THOM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/11/2024 15:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 15:02	12701	MACU_T1	0	0	0	0	0	0	-0.82	-0.79	1	1	0	1200	1200	0
8/11/2024 15:02	57704	PAXT_T2	0	0	0	0	0	0	-0.64	-0.58	1	1	0	900	900	0
8/11/2024 15:02	61506	EPET_T2	0	0	0	0	0	0	-0.55	-0.6	1	1	0	900	900	0
8/11/2024 15:02	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 15:02	61501	EPET_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
8/11/2024 15:03	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 15:05	12701	MACU_T1	0	0	0	0	0	0	-0.82	-0.79	1	1	0	1200	1200	0
8/11/2024 15:06	54203	PENN_T1	5	4	-1	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
8/11/2024 15:06	54201	PENN_T1	3	3	0	1.17	1.1	-0.07	-1.76	-1.76	0	0	0	0	0	0
8/11/2024 15:08	56501	ROCK_T2	6	2	-4	0.33	0.7	0.37	-1.92	-1.84	0	0	0	0	0	0
8/11/2024 15:09	57303	MOAL_T2	1	1	0	8.9	8.5	-0.4	0	0	0	0	0	0	0	0
8/11/2024 15:09	57304	MOAL_T2	2	3	1	0.4	0	-0.4	-0.15	-1	0	1	1	0	900	900
8/11/2024 15:10	56504	ROCK_T2	0	0	0	0	0	0	-0.53	-0.49	0	0	0	0	0	0
8/11/2024 15:10	56501	ROCK_T2	6	2	-4	0.33	0.7	0.37	0	0	0	0	0	0	0	0
8/11/2024 15:11	56501	ROCK_T2	6	2	-4	0.33	0.7	0.37	-1.92	-1.84	0	0	0	0	0	0
8/11/2024 15:12	56504	ROCK_T2	0	0	0	0	0	0	-1.06	-0.98	0	0	0	0	0	0
8/11/2024 15:12	56501	ROCK_T2	6	2	-4	0.33	0.7	0.37	0	0	0	0	0	0	0	0
8/11/2024 15:13	42503	ALTA_T2	0	0	0	0	0	0	-0.56	-0.55	0	0	0	0	0	0
8/11/2024 15:13	20401	ASHF_T2	1	4	3	0.5	0.65	0.15	0	0	0	0	0	0	0	0
8/11/2024 15:13	20403	ASHF_T2	0	0	0	0	0	0	0.76	0.78	0	0	0	0	0	0
8/11/2024 15:13	20402	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/11/2024 15:15	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 15:16	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 15:16	44801	EDAN_T2	2	5	3	0.75	0.32	-0.43	-1.32	-1.31	0	0	0	0	0	0
8/11/2024 15:18	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 15:19	20601	GRWO_T2	44	93	49	0.56	0.54	-0.02	0.91	0.92	0	0	0	0	0	0
8/11/2024 15:19	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 15:20	63401	HONY_T1	0	0	0	0	0	0	0.06	0.08	1	1	0	600	600	0
8/11/2024 15:21	63401	HONY_T1	0	0	0	0	0	0	0.06	0.08	1	1	0	600	600	0
8/11/2024 15:22	63401	HONY_T1	0	0	0	0	0	0	0.08	0.04	1	1	0	600	600	0
8/11/2024 15:23	57704	PAXT_T2	0	0	0	0	0	0	-0.49	-0.55	1	1	0	900	900	0
8/11/2024 15:29	52204	DEVO_T2	6	6	0	1.67	1.75	0.08	0	0	0	0	0	0	0	0
8/11/2024 15:29	52202	DEVO_T2	0	2	2	0	0	0	-0.85	-0.84	0	0	0	0	0	0
8/11/2024 15:29	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 15:30	52202	DEVO_T2	0	2	2	0	0.1	0.1	-0.85	-0.84	0	0	0	0	0	0
8/11/2024 15:30	52204	DEVO_T2	6	6	0	1.88	1.72	-0.16	0	0	0	0	0	0	0	0
8/11/2024 15:30	20601	GRWO_T2	72	103	31	0.55	0.65	0.1	0.92	0.96	0	0	0	0	0	0
8/11/2024 15:31	52204	DEVO_T2	6	6	0	1.88	1.72	-0.16	0	0	0	0	0	0	0	0
8/11/2024 15:31	52202	DEVO_T2	0	2	2	0	0.1	0.1	-0.85	-0.84	0	0	0	0	0	0
8/11/2024 15:31	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 15:32	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 15:34	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 15:35	63401	HONY_T1	0	0	0	0	0	0	0.08	0.04	1	1	0	600	600	0
8/11/2024 15:37	66703	STRA_T1	0	0	0	0	0	0	-0.25	-0.2	0	0	0	0	0	0
8/11/2024 15:38	54602	SUMM_T2	0	0	0	0	0	0	-1.94	-1.97	1	1	0	600	600	0
8/11/2024 15:39	66703	STRA_T1	0	0	0	0	0	0	-0.25	-0.2	0	0	0	0	0	0
8/11/2024 15:42	67602	WARW_T2	0	0	0	0	0	0	0.59	0.56	1	1	0	300	300	0
8/11/2024 15:42	42802	SELI_T1	0	0	0	0	0	0	-0.68	-0.81	0	0	0	0	0	0
8/11/2024 15:43	67602	WARW_T2	0	0	0	0	0	0	0.59	0.56	1	1	0	300	300	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/11/2024 15:45	42802	SELI_T1	0	0	0	0	0	0	-1.36	-1.61	0	0	0	0	0	0
8/11/2024 15:46	67602	WARW_T2	0	0	0	0	0	0	0.59	0.56	1	1	0	300	300	0
8/11/2024 15:46	27201	YATE_T1	0	5	5	0	0	0	-21.6	-21.6	0	0	0	0	0	0
8/11/2024 15:50	43202	MVIL_T2	0	1	1	0	0	0	-0.81	-0.82	0	0	0	0	0	0
8/11/2024 15:50	66901	SHIL_T2	1	1	0	0.2	0.2	0	0.39	0.46	0	0	0	0	0	0
8/11/2024 15:50	43201	MVIL_T2	2	0	-2	0.75	0	-0.75	0	0	0	0	0	0	0	0
8/11/2024 15:52	43201	MVIL_T2	2	0	-2	0.75	0	-0.75	0	0	0	0	0	0	0	0
8/11/2024 15:52	65602	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/11/2024 15:52	43202	MVIL_T2	0	1	1	0	0	0	-0.82	-0.81	0	0	0	0	0	0
8/11/2024 15:52	65604	QVIL_T2	0	0	0	0	0	0	0.76	0.75	0	0	0	0	0	0
8/11/2024 15:56	46001	BERW_T1	1	1	0	1.4	0.5	-0.9	-0.13	-0.16	0	0	0	0	0	0
8/11/2024 15:57	20403	ASHF_T2	0	0	0	0	0	0	0.79	0.86	0	0	0	0	0	0
8/11/2024 15:57	46001	BERW_T1	1	1	0	1.4	0.5	-0.9	-0.13	-0.16	0	0	0	0	0	0
8/11/2024 15:57	20401	ASHF_T2	5	7	2	1.14	0.48	-0.66	0	0	0	0	0	0	0	0
8/11/2024 15:57	20402	ASHF_T2	3	3	0	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
8/11/2024 15:57	55101	WERT_T1	0	0	0	0	0	0	-1.69	-1.62	3	3	0	2400	2400	0
8/11/2024 15:58	11102	EGYP_T1	3	3	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
8/11/2024 15:58	11104	EGYP_T1	10	7	-3	1.49	0.94	-0.55	0.07	0.12	1	1	0	900	900	0
8/11/2024 15:59	46001	BERW_T1	1	1	0	1.4	0.5	-0.9	-0.13	-0.16	0	0	0	0	0	0
8/11/2024 16:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 16:00	46001	BERW_T1	1	1	0	0.6	0.5	-0.1	-0.13	-0.16	0	0	0	0	0	0
8/11/2024 16:01	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 16:02	22901	HARW_T1	21	12	-9	0.48	0.3	-0.18	-0.38	-0.35	1	1	0	1200	1200	0
8/11/2024 16:02	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 16:02	22903	HARW_T1	25	22	-3	1.29	0.86	-0.43	0	0	0	0	0	0	0	0
8/11/2024 16:02	22905	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 16:04	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 16:05	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 16:05	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 16:07	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 16:23	64101	REFR_T1	1	10	9	0.3	0.37	0.07	0.48	0.49	0	0	0	0	0	0
8/11/2024 16:24	65901	SAKR_T2	1	1	0	6.6	6.4	-0.2	-0.71	-0.77	2	2	0	1500	1500	0
8/11/2024 16:24	64101	REFR_T1	1	10	9	0.3	0.37	0.07	0.48	0.49	0	0	0	0	0	0
8/11/2024 16:25	52404	GRPA_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/11/2024 16:25	52401	GRPA_T2	1	9	8	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/11/2024 16:25	52402	GRPA_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/11/2024 16:25	52403	GRPA_T2	5	16	11	0.52	0.84	0.32	-0.28	-0.21	0	0	0	0	0	0
8/11/2024 16:26	55001	NEWP_T1	18	19	1	0.51	0.35	-0.16	-0.26	-0.33	1	1	0	600	600	0
8/11/2024 16:26	57205	ROSS_T1	1	1	0	0.1	0.1	0	-1.6	-1.62	1	1	0	900	900	0
8/11/2024 16:29	20401	ASHF_T2	5	4	-1	0.42	0.45	0.03	0	0	0	0	0	0	0	0
8/11/2024 16:29	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/11/2024 16:29	20403	ASHF_T2	0	1	1	0	0	0	0.84	0.9	0	0	0	0	0	0
8/11/2024 16:29	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 16:29	20402	ASHF_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/11/2024 16:34	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 16:39	20401	ASHF_T2	3	7	4	0.43	0.47	0.04	0	0	0	0	0	0	0	0
8/11/2024 16:39	64101	REFR_T1	3	10	7	0.37	0.71	0.34	0.49	0.47	0	0	0	0	0	0
8/11/2024 16:39	20403	ASHF_T2	0	2	2	0	0	0	0.9	0.87	0	0	0	0	0	0
8/11/2024 16:39	20402	ASHF_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 16:45	46203	DANV_T2	0	0	0	0	0	0	-2.43	-2.44	0	0	0	0	0	0
8/11/2024 16:45	46205	DANV_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 16:45	46206	DANV_T2	44	70	26	0.54	0.59	0.05	0	0	0	0	0	0	0	0
8/11/2024 16:45	46204	DANV_T2	0	18	18	0	0.26	0.26	0	0	0	0	0	0	0	0
8/11/2024 16:46	46205	DANV_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 16:46	46204	DANV_T2	0	18	18	0	0.26	0.26	0	0	0	0	0	0	0	0
8/11/2024 16:46	46206	DANV_T2	44	70	26	0.54	0.59	0.05	0	0	0	0	0	0	0	0
8/11/2024 16:46	46203	DANV_T2	0	0	0	0	0	0	-2.43	-2.44	0	0	0	0	0	0
8/11/2024 16:47	40603	PIGR_T1	5	2	-3	0.44	0.1	-0.34	0	0	0	0	0	0	0	0
8/11/2024 16:47	40602	PIGR_T1	2	2	0	1.15	1.2	0.05	0	0	0	0	0	0	0	0
8/11/2024 16:47	40601	PIGR_T1	334	1	-333	2.13	0	-2.13	0	0	0	0	0	0	0	0
8/11/2024 16:52	44203	POIN_T2	6	10	4	1.22	1.13	-0.09	0.46	0.35	1	1	0	900	900	0
8/11/2024 16:52	44202	POIN_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/11/2024 16:53	44202	POIN_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/11/2024 16:53	44203	POIN_T2	6	10	4	1.22	1.13	-0.09	0.46	0.35	1	1	0	900	900	0
8/11/2024 16:54	52401	GRPA_T2	9	8	-1	0.48	0.2	-0.28	0	0	0	0	0	0	0	0
8/11/2024 16:54	52404	GRPA_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
8/11/2024 16:54	52403	GRPA_T2	15	61	46	0.63	0.72	0.09	0	0	0	0	0	0	0	0
8/11/2024 16:54	52402	GRPA_T2	2	7	5	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/11/2024 16:55	20401	ASHF_T2	3	7	4	0.47	0.2	-0.27	0	0	0	0	0	0	0	0
8/11/2024 16:55	64101	REFR_T1	10	8	-2	0.77	0.5	-0.27	0.47	0.46	0	0	0	0	0	0
8/11/2024 16:55	20403	ASHF_T2	1	1	0	0.2	0	-0.2	0.87	-0.32	0	0	0	0	0	0
8/11/2024 16:55	20402	ASHF_T2	0	9	9	0	0.2	0.2	0	0	0	0	0	0	0	0
8/11/2024 16:55	60504	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 16:55	60502	NMAN_T2	0	1	1	0	0	0	0.26	0.23	0	0	0	0	0	0
8/11/2024 16:56	55103	WERT_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/11/2024 16:56	55101	WERT_T1	0	0	0	0	0	0	-1.67	-1.69	3	3	0	2400	2400	0
8/11/2024 16:58	67605	WARW_T1	0	0	0	0	0	0	-0.7	-0.66	0	0	0	0	0	0
8/11/2024 16:59	67602	WARW_T2	0	0	0	0	0	0	0.6	0.63	1	1	0	300	300	0
8/11/2024 17:03	67605	WARW_T1	0	0	0	0	0	0	-0.7	-0.66	0	0	0	0	0	0
8/11/2024 17:04	12704	MACU_T1	0	0	0	0	0	0	-0.77	-0.78	1	1	0	600	600	0
8/11/2024 17:12	65901	SAKR_T2	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
8/11/2024 17:12	65902	SAKR_T2	0	0	0	0	0	0	-0.32	-0.33	1	1	0	300	300	0
8/11/2024 17:12	65903	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 17:13	46206	DANV_T2	67	85	18	0.6	0.66	0.06	0	0	0	0	0	0	0	0
8/11/2024 17:13	46205	DANV_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 17:13	46204	DANV_T2	11	27	16	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
8/11/2024 17:13	46203	DANV_T2	0	0	0	0	0	0	-2.45	-2.44	0	0	0	0	0	0
8/11/2024 17:14	46205	DANV_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 17:14	46206	DANV_T2	67	85	18	0.6	0.66	0.06	0	0	0	0	0	0	0	0
8/11/2024 17:14	46204	DANV_T2	11	27	16	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
8/11/2024 17:14	46203	DANV_T2	0	0	0	0	0	0	-4.9	-4.88	0	0	0	0	0	0
8/11/2024 17:15	67602	WARW_T2	0	0	0	0	0	0	0.63	0.63	1	1	0	300	300	0
8/11/2024 17:18	40901	JESH_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
8/11/2024 17:18	40902	JESH_T1	0	0	0	0	0	0	-1.71	-1.73	2	2	0	1200	1200	0
8/11/2024 17:19	26402	INOR_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
8/11/2024 17:19	26401	INOR_T1	1	1	0	7	7.7	0.7	0	0	0	0	0	0	0	0
8/11/2024 17:20	54001	SDLE_T1	0	2	2	0	0.2	0.2	0	0	1	1	0	600	600	0
8/11/2024 17:22	12701	MACU_T1	0	1	1	0	0	0	-0.77	-0.75	1	1	0	1200	1200	0
8/11/2024 17:23	67103	SPRI_T1	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
8/11/2024 17:25	54001	SDLE_T1	0	2	2	0	0.2	0.2	0	0	1	1	0	600	600	0
8/11/2024 17:26	42802	SELI_T1	0	0	0	0	0	0	-0.72	-0.77	0	0	0	0	0	0
8/11/2024 17:37	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 17:38	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 17:45	53902	HALI_T2	1	1	0	3.6	4.2	0.6	-0.71	-0.73	0	0	0	0	0	0
8/11/2024 17:45	53901	HALI_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/11/2024 17:45	53903	HALI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/11/2024 17:45	67602	WARW_T2	0	0	0	0	0	0	0.63	0.64	1	1	0	300	300	0
8/11/2024 17:47	67602	WARW_T2	0	0	0	0	0	0	0.63	0.64	1	1	0	300	300	0
8/11/2024 17:55	13903	SEID_T1	0	8	8	0	0.33	0.33	0	0	0	0	0	0	0	0
8/11/2024 17:55	13901	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 17:55	13904	SEID_T1	13	13	0	0.96	0.3	-0.66	0.58	0.59	0	0	0	0	0	0
8/11/2024 18:11	13904	SEID_T1	3	11	8	0.37	0.1	-0.27	0.59	0.61	0	0	0	0	0	0
8/11/2024 18:11	13903	SEID_T1	6	8	2	0.87	0.2	-0.67	0	0	0	0	0	0	0	0
8/11/2024 18:11	13901	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 18:13	61302	EARL_T1	1	2	1	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
8/11/2024 18:13	61303	EARL_T1	2	2	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
8/11/2024 18:13	61304	EARL_T1	0	0	0	0	0	0	-0.21	-0.21	1	1	0	600	600	0
8/11/2024 18:15	61302	EARL_T1	1	2	1	0.4	0.65	0.25	0	0	0	0	0	0	0	0
8/11/2024 18:15	61304	EARL_T1	0	0	0	0	0	0	-0.21	-0.21	1	1	0	600	600	0
8/11/2024 18:15	61303	EARL_T1	1	2	1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
8/11/2024 18:21	51002	NHAR_T1	1	1	0	0	0.4	0.4	0	0	0	0	0	0	0	0
8/11/2024 18:21	51003	NHAR_T1	0	0	0	0	0	0	-0.86	-0.95	1	1	0	1200	1200	0
8/11/2024 18:21	51004	NHAR_T1	1	1	0	7.1	7	-0.1	0	0	0	0	0	0	0	0
8/11/2024 18:22	26402	INOR_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
8/11/2024 18:22	26401	INOR_T1	1	1	0	6.8	8.5	1.7	0	0	0	0	0	0	0	0
8/11/2024 18:24	20403	ASHF_T2	0	0	0	0	0	0	-0.5	0.66	0	0	0	0	0	0
8/11/2024 18:24	20401	ASHF_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 18:24	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 18:32	63804	HEMP_T1	1	1	0	6.3	6.2	-0.1	0.13	0.16	0	0	0	0	0	0
8/11/2024 18:35	42902	MIDD_T2	4	3	-1	1.5	0.9	-0.6	-0.98	-0.99	1	1	0	600	600	0
8/11/2024 18:35	42901	MIDD_T2	4	4	0	0.78	0.2	-0.58	0	0	0	0	0	0	0	0
8/11/2024 18:36	42901	MIDD_T2	4	4	0	0.78	0.2	-0.58	0	0	0	0	0	0	0	0
8/11/2024 18:36	42902	MIDD_T2	4	3	-1	0.9	1.5	0.6	-0.98	-0.99	1	1	0	600	600	0
8/11/2024 18:45	43301	WATS_T2	0	0	0	0	0	0	-0.24	-0.24	1	1	0	900	900	0
8/11/2024 18:45	10705	CATA_T2	0	0	0	0	0	0	-1.41	-1.43	1	1	0	900	900	0
8/11/2024 18:46	10705	CATA_T2	0	0	0	0	0	0	-1.41	-1.43	1	1	0	900	900	0
8/11/2024 18:47	46102	MACI_T1	0	0	0	0	0	0	0.87	0.89	0	0	0	0	0	0
8/11/2024 18:52	48302	ORWI_T2	0	1	1	0	0.2	0.2	-0.34	-0.4	0	0	0	0	0	0
8/11/2024 19:00	11302	EMMA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 19:00	11303	EMMA_T1	1	1	0	3.9	0	-3.9	-4.8	-4.87	0	0	0	0	0	0
8/11/2024 19:02	53502	EVIL_T2	0	0	0	0	0	0	0.11	0.33	1	1	0	600	600	0
8/11/2024 19:02	53501	EVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/11/2024 19:14	52404	GRPA_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
8/11/2024 19:14	52403	GRPA_T2	4	11	7	0.88	0.64	-0.24	0	0	0	0	0	0	0	0
8/11/2024 19:15	46203	DANV_T2	4	6	2	0.15	0.22	0.07	0	0	0	0	0	0	0	0
8/11/2024 19:15	46206	DANV_T2	59	69	10	0.76	0.7	-0.06	0	0	0	0	0	0	0	0
8/11/2024 19:15	10705	CATA_T2	0	0	0	0	0	0	-1.47	-1.52	1	1	0	900	900	0
8/11/2024 19:15	46204	DANV_T2	1	1	0	0.2	0	-0.2	-0.2	-0.22	1	1	0	1200	1200	0
8/11/2024 19:16	57106	SPHI_T2	3	3	0	1.13	1.3	0.17	0	0	0	0	0	0	0	0
8/11/2024 19:16	57104	SPHI_T2	0	0	0	0	0	0	-1.25	-1.26	1	1	0	900	900	0
8/11/2024 19:16	57101	SPHI_T2	5	6	1	0.26	0.57	0.31	0	0	0	0	0	0	0	0
8/11/2024 19:18	11904	ETEK_T2	0	0	0	0	0	0	-0.47	-0.43	0	0	0	0	0	0
8/11/2024 19:21	14401	SSLA_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
8/11/2024 19:21	14404	SSLA_T1	0	0	0	0	0	0	0.42	0.34	0	0	0	0	0	0
8/11/2024 19:23	51204	MTON_T2	0	0	0	0	0	0	-0.17	-0.17	1	1	0	600	600	0
8/11/2024 19:23	14404	SSLA_T1	0	0	0	0	0	0	0.42	0.34	0	0	0	0	0	0
8/11/2024 19:23	14401	SSLA_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
8/11/2024 19:25	52501	PROG_T1	0	14	14	0	0.11	0.11	-0.99	-1.05	1	1	0	300	300	0
8/11/2024 19:29	44301	BEAV_T2	0	0	0	0	0	0	-1.34	-1.36	1	1	0	600	600	0
8/11/2024 20:14	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 20:50	46803	HEPB_T2	1	5	4	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
8/11/2024 20:50	46801	HEPB_T2	12	21	9	0.34	0.3	-0.04	-0.03	-0.04	0	0	0	0	0	0
8/11/2024 20:54	57304	MOAL_T2	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/11/2024 20:54	57303	MOAL_T2	1	2	1	7.6	7.6	0	0	0	0	0	0	0	0	0
8/11/2024 20:57	61102	BERK_T5	0	0	0	0	0	0	-0.19	-0.21	1	1	0	300	300	0
8/11/2024 21:04	64401	LAND_T1	0	0	0	0	0	0	-0.9	-0.91	1	1	0	600	600	0
8/11/2024 21:05	64401	LAND_T1	0	0	0	0	0	0	-1.79	-1.82	2	2	0	1200	1200	0
8/11/2024 21:05	45802	HEGI_T2	47	48	1	1.1	1.48	0.38	-0.24	-0.28	1	1	0	900	900	0
8/11/2024 21:06	64401	LAND_T1	0	0	0	0	0	0	-0.9	-0.91	1	1	0	600	600	0
8/11/2024 21:09	64401	LAND_T1	0	0	0	0	0	0	-0.91	-0.93	1	1	0	600	600	0
8/11/2024 21:30	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 21:37	51002	NHAR_T1	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
8/11/2024 21:37	51004	NHAR_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 21:38	58102	NEKI_T1	1	1	0	1.5	1.5	0	-1.79	-0.71	1	1	0	1200	1200	0
8/11/2024 21:39	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/11/2024 21:50	28704	HAML_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 21:50	28702	HAML_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
8/11/2024 22:01	16102	BING_T2	14	1	-13	0.24	0.1	-0.14	0	0	0	0	0	0	0	0
8/11/2024 22:01	16101	BING_T2	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
8/11/2024 22:02	63602	LETO_T1	0	0	0	0	0	0	-0.67	-0.71	1	1	0	600	600	0
8/11/2024 22:02	63804	HEMP_T1	1	1	0	6.4	6	-0.4	1.2	1.16	0	0	0	0	0	0
8/11/2024 22:03	66703	STRA_T1	5	34	29	0.34	0.24	-0.1	-0.94	-0.96	0	0	0	0	0	0
8/11/2024 22:04	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
8/11/2024 22:04	64902	MILL_T2	0	0	0	0	0	0	-0.92	-0.96	1	1	0	900	900	0
8/11/2024 22:04	48302	ORWI_T2	2	2	0	1.15	1.15	0	-0.6	-0.59	0	0	0	0	0	0
8/11/2024 22:04	57702	PAXT_T1	0	0	0	0	0	0	-0.93	-0.91	0	0	0	0	0	0
8/11/2024 22:06	65001	NEFF_T2	0	0	0	0	0	0	-1.05	-1.09	1	1	0	1200	1200	0
8/11/2024 22:06	67503	WEWI_T2	1	1	0	6.4	6.8	0.4	-0.49	-0.56	0	0	0	0	0	0
8/11/2024 22:06	67605	WARW_T1	1	3	2	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/11/2024 22:06	46102	MACI_T1	0	0	0	0	0	0	0.81	0.83	0	0	0	0	0	0
8/11/2024 22:06	63401	HONY_T1	0	0	0	0	0	0	0.4	0.06	1	1	0	600	600	0
8/11/2024 22:06	65003	NEFF_T2	4	1	-3	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
8/11/2024 22:06	67603	WARW_T1	0	0	0	0	0	0	0.14	0.08	0	0	0	0	0	0
8/11/2024 22:07	54201	PENN_T1	173	12	-161	0.37	0.74	0.37	-0.68	-0.69	0	0	0	0	0	0
8/11/2024 22:07	63501	HEID_TBK1-2	55	55	0	1.74	1.55	-0.19	-0.23	-0.23	1	1	0	900	900	0
8/11/2024 22:07	66703	STRA_T1	5	34	29	0.34	0.24	-0.1	-0.96	-0.94	0	0	0	0	0	0
8/11/2024 22:07	63402	HONY_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/11/2024 22:07	61303	EARL_T1	0	0	0	0	0	0	-0.07	0.07	0	0	0	0	0	0
8/11/2024 22:07	54203	PENN_T1	18	18	0	1.33	0.94	-0.39	0	0	0	0	0	0	0	0
8/11/2024 22:07	63403	HONY_T2	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
8/11/2024 22:08	52401	GRPA_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
8/11/2024 22:08	42201	SHEN_T2	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
8/11/2024 22:08	48301	ORWI_T1	2	2	0	5.8	5.7	-0.1	-0.76	-0.77	1	1	0	900	900	0
8/11/2024 22:08	52402	GRPA_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/11/2024 22:08	63602	LETO_T1	0	0	0	0	0	0	-0.71	-0.73	1	1	0	600	600	0
8/11/2024 22:08	52403	GRPA_T2	0	2	2	0	0.15	0.15	-0.57	-0.57	0	0	0	0	0	0
8/11/2024 22:09	63802	HEMP_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
8/11/2024 22:09	66505	SMAN_T2	3	0	0	0.4	0.53	0.13	0	0	0	0	0	0	0	0
8/11/2024 22:09	63804	HEMP_T1	1	1	0	6.4	6	-0.4	0	0	0	0	0	0	0	0
8/11/2024 22:09	52202	DEVO_T2	0	0	0	0	0	0	-1.12	-1.14	0	0	0	0	0	0
8/11/2024 22:09	66504	SMAN_T2	0	0	0	0	0	0	-2.85	-2.83	2	2	0	2400	2400	0
8/11/2024 22:09	20601	GRWO_T2	0	0	0	0	0	0	0.7	0.72	0	0	0	0	0	0
8/11/2024 22:09	47802	MOCA_T2	0	0	0	0	0	0	-0.79	-0.82	0	0	0	0	0	0
8/11/2024 22:10	20603	GRWO_T2	0	0	0	0	0	0	-0.55	-0.53	1	1	0	900	900	0
8/11/2024 22:10	46206	DANV_T2	1	3	2	0.5	0.6	0.1	1.46	1.49	2	2	0	2100	2100	0
8/11/2024 22:10	57702	PAXT_T1	0	0	0	0	0	0	-0.91	-0.94	0	0	0	0	0	0
8/11/2024 22:10	66703	STRA_T1	5	34	29	0.34	0.24	-0.1	-0.96	-0.94	0	0	0	0	0	0
8/11/2024 22:10	24105	EHAZ_T1	4	4	0	5.58	5.58	0	0	0	0	0	0	0	0	0
8/11/2024 22:10	60502	NMAN_T2	0	0	0	0	0	0	-0.29	-0.34	0	0	0	0	0	0
8/11/2024 22:10	65604	OVIL_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
8/11/2024 22:10	24102	EHAZ_T1	1	1	0	0.3	0	-0.3	0.05	0.05	0	0	0	0	0	0
8/11/2024 22:10	52202	DEVO_T2	0	0	0	0	0	0	-1.12	-1.14	0	0	0	0	0	0
8/11/2024 22:10	63305	GREE_T1	2	11	9	0.1	0.24	0.14	-2.22	-2.19	1	1	0	900	900	0
8/11/2024 22:11	63401	HONY_T1	0	0	0	0	0	0	0.06	0.06	1	1	0	600	600	0
8/11/2024 22:11	64101	REFR_T1	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
8/11/2024 22:11	55101	WERT_T1	0	0	0	0	0	0	-1.27	-1.32	2	2	0	1500	1500	0
8/11/2024 22:11	54201	PENN_T1	173	12	-161	0.37	0.74	0.37	-0.68	-0.69	0	0	0	0	0	0
8/11/2024 22:11	56504	ROCK_T2	0	0	0	0	0	0	-2.67	0.04	0	0	0	0	0	0
8/11/2024 22:11	22903	HARW_T1	21	8	-13	1.42	0	-1.42	0	0	0	0	0	0	0	0
8/11/2024 22:11	48302	ORWI_T2	2	2	0	1.15	1.15	0	-0.59	-0.63	0	0	0	0	0	0
8/11/2024 22:11	56501	ROCK_T2	6	10	4	0.27	0.21	-0.06	-1.02	-1.08	0	0	0	0	0	0
8/11/2024 22:11	61304	EARL_T1	0	0	0	0	0	0	-0.67	-0.71	1	1	0	600	600	0
8/11/2024 22:11	54203	PENN_T1	18	18	0	1.33	0.94	-0.39	0	0	0	0	0	0	0	0
8/11/2024 22:11	22901	HARW_T1	0	0	0	0	0	0	-0.65	-0.6	1	1	0	1200	1200	0
8/11/2024 22:12	53601	DALM_T2	1	1	0	0.9	0.5	-0.4	0.53	0.55	0	0	0	0	0	0
8/11/2024 22:12	26402	INOR_T1	16	4	-12	0.19	0.18	-0.01	-0.01	-0.01	0	0	0	0	0	0
8/11/2024 22:12	63501	HEID_TBK1-2	55	55	0	1.74	1.55	-0.19	-0.23	-0.23	1	1	0	900	900	0
8/11/2024 22:12	61701	ELIZ_T1	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
8/11/2024 22:12	46001	BERW_T1	0	0	0	0	0	0	0.71	0.66	0	0	0	0	0	0
8/11/2024 22:12	61703	ELIZ_T1	0	0	0	0	0	0	-1.54	-1.54	1	1	0	900	900	0
8/11/2024 22:12	26401	INOR_T1	1	1	0	9.6	9.6	0	0	0	0	0	0	0	0	0
8/11/2024 22:12	23001	SAIO_T1	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
8/11/2024 22:13	20601	GRWO_T2	0	0	0	0	0	0	0.7	0.72	0	0	0	0	0	0
8/11/2024 22:13	20403	ASHF_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
8/11/2024 22:13	42503	ALTA_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
8/11/2024 22:13	64101	REFR_T1	0	0	0	0	0	0	0.38	0.26	0	0	0	0	0	0
8/11/2024 22:13	59201	THOM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 22:13	59202	THOM_T1	10	1	-9	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
8/11/2024 22:13	67605	WARW_T1	1	3	2	0.6	0.5	-0.1	-1.18	-1.22	0	0	0	0	0	0
8/11/2024 22:14	23102	MOSC_T2	0	0	0	0	0	0	-1.72	-2.27	2	2	0	2400	2400	0
8/11/2024 22:14	64101	REFR_T1	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
8/11/2024 22:14	64902	MILL_T2	0	0	0	0	0	0	-0.96	-0.99	1	1	0	900	900	0
8/11/2024 22:14	56501	ROCK_T2	6	10	4	0.27	0.21	-0.06	-2.03	-2.15	0	0	0	0	0	0
8/11/2024 22:14	56504	ROCK_T2	0	0	0	0	0	0	-0.89	0.01	0	0	0	0	0	0
8/11/2024 22:14	42201	SHEN_T2	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
8/11/2024 22:14	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/11/2024 22:15	66505	SMAN_T2	3	3	0	0.3	0.53	0.23	0	0	0	0	0	0	0	0
8/11/2024 22:15	29402	BELT_T1	1	31	30	9.3	0.52	-8.78	0	0	0	0	0	0	0	0
8/11/2024 22:15	61701	ELIZ_T1	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
8/11/2024 22:15	46206	DANV_T2	1	3	2	0.6	0.6	0	1.46	1.49	2	2	0	2100	2100	0
8/11/2024 22:15	66504	SMAN_T2	0	0	0	0	0	0	-1.43	-1.41	1	1	0	1200	1200	0
8/11/2024 22:15	29301	DAPP_T1	1	1	0	9.7	9.6	-0.1	0	0	1	1	0	600	600	0
8/11/2024 22:15	61703	ELIZ_T1	0	0	0	0	0	0	-1.54	-1.54	1	1	0	900	900	0
8/11/2024 22:15	13503	MCMI_T2	3	0	-3	0.1	0	-0.1	-1.65	-1.69	0	0	0	0	0	0
8/11/2024 22:16	52403	GRPA_T2	2	2	0	0.1	0.15	0.05	0.57	0.57	0	0	0	0	0	0
8/11/2024 22:16	56501	ROCK_T2	10	5	-5	0.21	0.22	0.01	0	0	0	0	0	0	0	0
8/11/2024 22:16	64501	LAVI_T1	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
8/11/2024 22:16	52401	GRPA_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
8/11/2024 22:16	42802	SELI_T1	0	1	1	0	0.3	0.3	0.19	0.13	0	0	0	0	0	0
8/11/2024 22:16	52402	GRPA_T2	1	3	2	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
8/11/2024 22:16	64902	MILL_T2	0	0	0	0	0	0	-0.96	-0.99	1	1	0	900	900	0
8/11/2024 22:16	61701	ELIZ_T1	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
8/11/2024 22:16	66505	SMAN_T2	3	3	0	0.3	0.53	0.23	-0.32	-0.37	3	3	0	2100	2100	0
8/11/2024 22:16	61703	ELIZ_T1	0	0	0	0	0	0	-1.54	-1.54	1	1	0	900	900	0
8/11/2024 22:16	64101	REFR_T1	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
8/11/2024 22:16	44801	EDAN_T2	1	1	0	0.4	0.3	-0.1	-1.59	-1.58	0	0	0	0	0	0
8/11/2024 22:16	56504	ROCK_T2	0	0	0	0	0	0	-0.89	0.01	0	0	0	0	0	0
8/11/2024 22:16	22602	KIMB_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
8/11/2024 22:16	58402	MORO_T1	0	0	0	0	0	0	-0.3	-0.33	2	2	0	1500	1500	0
8/11/2024 22:17	12701	MACU_T1	0	0	0	0	0	0	-1.02	-1.06	1	1	0	1200	1200	0
8/11/2024 22:17	64101	REFR_T1	0	0	0	0	0	0	0.38	0.26	0	0	0	0	0	0
8/11/2024 22:17	21701	SUBU_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
8/11/2024 22:17	29402	BELT_T1	1	31	30	9.3	0.52	-8.78	0	0	0	0	0	0	0	0
8/11/2024 22:17	11507	FREE_T2	0	0	0	0	0	0	0.45	0.51	0	0	0	0	0	0
8/11/2024 22:17	25501	MADI_T1	3	3	0	0.77	1.03	0.26	0	0	0	0	0	0	0	0
8/11/2024 22:17	16102	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/11/2024 22:17	25503	MADI_T1	8	11	3	0.18	0.17	-0.01	-0.79	-0.81	0	0	0	0	0	0
8/11/2024 22:17	25402	LAHA_T2	0	0	0	0	0	0	-0.82	-0.86	0	0	0	0	0	0
8/11/2024 22:17	66302	MCGO_T2	0	0	0	0	0	0	-1.3	0.34	1	0	-1	600	0	-600
8/11/2024 22:17	21705	SUBU_T1	1	1	0	5.5	5.8	0.3	0	0	0	0	0	0	0	0
8/11/2024 22:17	16103	BING_T2	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
8/11/2024 22:17	63401	HONY_T1	0	0	0	0	0	0	0.06	0.06	1	1	0	600	600	0
8/11/2024 22:18	66502	SMAN_T2	0	0	0	0	0	0	-0.99	-0.15	0	0	0	0	0	0
8/11/2024 22:18	59002	MIFF_T1	5	6	1	0.3	0.52	0.22	0	0	0	0	0	0	0	0
8/11/2024 22:18	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/11/2024 22:18	12701	MACU_T1	0	0	0	0	0	0	-1.02	-1.06	1	1	0	1200	1200	0
8/11/2024 22:18	66703	STRA_T1	34	5	-29	0.24	0.56	0.32	-0.96	-0.94	0	0	0	0	0	0
8/11/2024 22:18	14702	TREX_T2	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
8/11/2024 22:18	20403	ASHF_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
8/11/2024 22:18	16102	BING_T2	1	0	-1	0.1	0	-0.1	0.35	0.48	0	0	0	0	0	0
8/11/2024 22:18	59003	MIFF_T1	1	1	0	0.1	0.4	0.3	0.41	0.37	0	0	0	0	0	0
8/11/2024 22:18	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 22:18	52501	PROG_T1	109	0	-109	0.14	0	-0.14	-1.2	-0.84	1	0	-1	300	0	-300
8/11/2024 22:18	63501	HEID_TBK1-2	55	56	1	1.76	1.26	-0.5	-0.23	-0.23	1	1	0	900	900	0
8/11/2024 22:18	53501	EVIL_T2	2	1	-1	0.3	1	0.7	-0.01	-0.01	1	1	0	600	600	0
8/11/2024 22:18	66505	SMAN_T2	3	3	0	0.3	0.53	0.23	0	0	0	0	0	0	0	0
8/11/2024 22:18	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 22:18	29402	BELT_T1	1	31	30	9.3	0.52	-8.78	0	0	0	0	0	0	0	0
8/11/2024 22:18	46001	BERW_T1	0	0	0	0	0	0	0.71	0.66	0	0	0	0	0	0
8/11/2024 22:18	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 22:19	46102	MACI_T1	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
8/11/2024 22:19	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
8/11/2024 22:19	63501	HEID_TBK1-2	55	56	1	1.76	1.26	-0.5	-0.23	-0.23	1	1	0	900	900	0
8/11/2024 22:19	60803	BUCK_T1	0	11	11	0	0.14	0.14	0	0	0	0	0	0	0	0
8/11/2024 22:19	64101	REFR_T1	0	0	0	0	0	0	0.38	0.26	0	0	0	0	0	0
8/11/2024 22:19	66505	SMAN_T2	3	3	0	0.3	0.53	0.23	-0.32	-0.37	3	3	0	2100	2100	0
8/11/2024 22:19	11104	EGYP_T1	0	2	2	0	0.1	0.1	0.4	0.41	0	0	0	0	0	0
8/11/2024 22:19	63804	HEMP_T1	1	1	0	6.2	5.8	-0.4	1.16	1.15	0	0	0	0	0	0
8/11/2024 22:19	59101	WALK_T2	0	0	0	0	0	0	1.12	0.82	1	1	0	600	600	0
8/11/2024 22:19	64403	LAND_T1	0	0	0	0	0	0	-1.74	-1.72	1	1	0	900	900	0
8/11/2024 22:19	20403	ASHF_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
8/11/2024 22:19	67602	WARW_T2	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
8/11/2024 22:19	61304	EARL_T1	0	0	0	0	0	0	-0.67	-0.71	1	1	0	600	600	0
8/11/2024 22:19	59102	WALK_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/11/2024 22:19	67605	WARW_T1	3	10	7	0.35	0.25	-0.1	-2.36	-2.44	0	0	0	0	0	0
8/11/2024 22:19	12704	MACU_T1	0	0	0	0	0	0	-1.28	-1.3	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/11/2024 22:19	66302	MCGO_T2	0	0	0	0	0	0	-1.3	0.34	1	0	-1	600	0	-600
8/11/2024 22:19	20603	GRWO_T2	0	0	0	0	0	0	-0.55	-0.53	1	1	0	900	900	0
8/11/2024 22:19	60801	BUCK_T1	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
8/11/2024 22:19	14403	SSLA_T1	0	0	0	0	0	0	0.15	0.12	1	1	0	600	600	0
8/11/2024 22:19	56501	ROCK_T2	10	5	-5	0.21	0.22	0.01	-1.02	-1.08	0	0	0	0	0	0
8/11/2024 22:19	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 22:19	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 22:19	22805	HAUT_T2	0	0	0	0	0	0	-1.6	-1.62	1	1	0	1200	1200	0
8/11/2024 22:20	63802	HEMP_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
8/11/2024 22:20	22901	HARW_T1	0	0	0	0	0	0	-0.65	-0.6	1	1	0	1200	1200	0
8/11/2024 22:20	14702	TREX_T2	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
8/11/2024 22:20	63304	GREE_T1	0	0	0	0	0	0	-1.43	-1.46	0	0	0	0	0	0
8/11/2024 22:20	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 22:20	43301	WATS_T2	1	1	0	0.1	0.3	0.2	-0.52	-0.52	1	1	0	900	900	0
8/11/2024 22:20	63804	HEMP_T1	1	1	0	6.2	5.8	-0.4	0	0	0	0	0	0	0	0
8/11/2024 22:20	12701	MACU_T1	0	0	0	0	0	0	-1.02	-1.06	1	1	0	1200	1200	0
8/11/2024 22:20	57106	SPHI_T2	3	3	0	1.43	1.4	-0.03	0	0	0	0	0	0	0	0
8/11/2024 22:20	47001	HUGH_T2	3	4	1	8.4	6.93	-1.47	-1.69	-1.74	1	1	0	900	900	0
8/11/2024 22:20	63305	GREE_T1	2	11	9	0.2	0.24	0.04	-2.22	-2.19	1	1	0	900	900	0
8/11/2024 22:20	57101	SPHI_T2	6	6	0	1.25	0.57	-0.68	0	0	0	0	0	0	0	0
8/11/2024 22:20	47002	HUGH_T2	7	2	-5	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
8/11/2024 22:20	59101	WALK_T2	0	0	0	0	0	0	1.12	0.82	1	1	0	600	600	0
8/11/2024 22:20	44703	MUNC_T2	0	0	0	0	0	0	0.85	0.8	0	0	0	0	0	0
8/11/2024 22:20	12605	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 22:20	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 22:20	61202	REIN_T1	14	21	7	0.12	0.12	0	0	0	0	0	0	0	0	0
8/11/2024 22:20	11303	EMMA_T1	0	0	0	0	0	0	-1.31	-1.29	0	0	0	0	0	0
8/11/2024 22:20	57104	SPHI_T2	0	0	0	0	0	0	-1.63	-1.69	1	1	0	900	900	0
8/11/2024 22:20	11104	EGYP_T1	0	2	2	0	0.1	0.1	0.4	0.41	0	0	0	0	0	0
8/11/2024 22:20	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
8/11/2024 22:20	22903	HARW_T1	7	1	-6	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/11/2024 22:20	13503	MCMI_T2	3	0	-3	0.1	0	-0.1	-0.83	-0.85	0	0	0	0	0	0
8/11/2024 22:20	67602	WARW_T2	0	0	0	0	0	0	1.61	1.59	0	0	0	0	0	0
8/11/2024 22:20	44301	BEAV_T2	0	0	0	0	0	0	-0.93	-0.93	1	1	0	600	600	0
8/11/2024 22:20	64101	REFR_T1	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
8/11/2024 22:20	59102	WALK_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/11/2024 22:20	59201	THOM_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 22:20	14404	SSLA_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
8/11/2024 22:21	11404	FARM_T1	0	0	0	0	0	0	-0.62	-0.64	1	1	0	1200	1200	0
8/11/2024 22:21	12701	MACU_T1	0	0	0	0	0	0	-1.06	-1.05	1	1	0	1200	1200	0
8/11/2024 22:21	14204	EALL_T2	0	0	0	0	0	0	0.84	0.81	0	0	0	0	0	0
8/11/2024 22:21	56501	ROCK_T2	10	5	-5	0.21	0.22	0.01	-1.02	-1.08	0	0	0	0	0	0
8/11/2024 22:21	44301	BEAV_T2	0	0	0	0	0	0	-0.93	-0.93	1	1	0	600	600	0
8/11/2024 22:21	67602	WARW_T2	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
8/11/2024 22:21	63804	HEMP_T1	1	1	0	6.2	5.8	-0.4	1.16	1.15	0	0	0	0	0	0
8/11/2024 22:21	61803	EELI_T2	0	0	0	0	0	0	0.22	0.23	1	1	0	600	600	0
8/11/2024 22:21	14702	TREX_T2	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
8/11/2024 22:21	55101	WERT_T1	0	0	0	0	0	0	-1.27	-1.32	2	2	0	1500	1500	0
8/11/2024 22:21	46206	DANV_T2	1	3	2	0.6	0.6	0	0	0	0	0	0	0	0	0
8/11/2024 22:21	46203	DANV_T2	0	0	0	0	0	0	-1.86	-1.88	0	0	0	0	0	0
8/11/2024 22:21	11104	EGYP_T1	0	2	2	0	0.1	0.1	0.41	0.34	0	0	0	0	0	0
8/11/2024 22:21	66703	STRA_T1	34	5	-29	0.24	0.56	0.32	-1.91	-1.88	0	0	0	0	0	0
8/11/2024 22:21	11904	ETEX_T2	0	0	0	0	0	0	-0.66	-0.69	0	0	0	0	0	0
8/11/2024 22:21	61801	EELI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/11/2024 22:21	64101	REFR_T1	0	0	0	0	0	0	0.38	0.26	0	0	0	0	0	0
8/11/2024 22:21	14202	EALL_T2	3	3	0	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
8/11/2024 22:21	52501	PROG_T1	109	0	-109	0.14	0	-0.14	-1.2	-0.84	1	0	-1	300	0	-300
8/11/2024 22:21	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 22:21	65502	MOJO_T2	0	0	0	0	0	0	-1.69	-1.64	1	1	0	900	900	0
8/11/2024 22:22	23001	SAJO_T1	0	0	0	0	0	0	-0.83	-0.75	0	0	0	0	0	0
8/11/2024 22:22	44301	BEAV_T2	0	0	0	0	0	0	-0.93	-0.93	1	1	0	600	600	0
8/11/2024 22:22	14702	TREX_T2	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
8/11/2024 22:22	55101	WERT_T1	0	0	0	0	0	0	-2.64	-2.74	4	4	0	3000	3000	0
8/11/2024 22:22	67103	SPRI_T1	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
8/11/2024 22:22	65902	SAKR_T2	0	0	0	0	0	0	-1.23	-1.24	1	1	0	900	900	0
8/11/2024 22:22	42802	SELI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/11/2024 22:22	63501	HEID_TBK1-2	55	56	1	1.76	1.26	-0.5	-0.23	-0.24	1	1	0	900	900	0
8/11/2024 22:22	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 22:22	20403	ASHF_T2	0	0	0	0	0	0	0.6	0.51	0	0	0	0	0	0
8/11/2024 22:22	67804	WLAN_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/11/2024 22:22	65901	SAKR_T2	1	1	0	8.4	8.1	-0.3	0	0	0	0	0	0	0	0
8/11/2024 22:22	66302	MCGO_T2	0	0	0	0	0	0	0.34	-0.42	0	0	0	0	0	0
8/11/2024 22:22	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 22:22	67801	WLAN_T1	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
8/11/2024 22:22	52202	DEVO_T2	0	0	0	0	0	0	-1.14	-1.13	0	0	0	0	0	0
8/11/2024 22:22	42201	SHEN_T2	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
8/11/2024 22:22	53601	DALM_T2	1	1	0	0.5	0.5	0	0.55	0.53	0	0	0	0	0	0
8/11/2024 22:22	67605	WARW_T1	3	10	7	0.35	0.25	-0.1	-1.22	-1.21	0	0	0	0	0	0
8/11/2024 22:22	61202	REIN_T1	14	21	7	0.12	0.12	0	0	0	0	0	0	0	0	0
8/11/2024 22:22	42801	SELI_T1	0	0	0	0	0	0	-2.44	-2.45	1	1	0	1200	1200	0
8/11/2024 22:22	12807	MICK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 22:22	12801	MICK_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	600	600	0
8/11/2024 22:23	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 22:23	66302	MCGO_T2	0	0	0	0	0	0	0.34	-0.42	0	0	0	0	0	0
8/11/2024 22:23	53501	EVIL_T2	2	1	-1	0.3	1	0.7	-0.01	-0.01	1	1	0	600	600	0
8/11/2024 22:23	56501	ROCK_T2	10	5	-5	0.21	0.22	0.01	-1.08	-1.1	0	0	0	0	0	0
8/11/2024 22:23	12301	LANA_T2	0	0	0	0	0	0	-0.99	-0.99	1	1	0	1200	1200	0
8/11/2024 22:23	46206	DANV_T2	1	3	2	0.6	0.6	0	0	0	0	0	0	0	0	0
8/11/2024 22:23	46203	DANV_T2	0	0	0	0	0	0	-1.88	-1.91	0	0	0	0	0	0
8/11/2024 22:23	47001	HUGH_T2	3	4	1	8.4	6.93	-1.47	-1.74	-1.75	1	1	0	900	900	0
8/11/2024 22:23	42903	MIDD_T2	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/11/2024 22:23	42902	MIDD_T2	0	0	0	0	0	0	-1.21	-1.21	1	1	0	600	600	0
8/11/2024 22:23	63501	HEID_TBK1-2	55	56	1	1.76	1.26	-0.5	-0.23	-0.24	1	1	0	900	900	0
8/11/2024 22:23	10705	CATA_T2	0	0	0	0	0	0	-1.92	-1.96	1	1	0	900	900	0
8/11/2024 22:23	57205	ROSS_T1	0	0	0	0	0	0	-1.01	-0.99	0	0	0	0	0	0
8/11/2024 22:23	44202	POIN_T2	1	1	0	2.7	2.3	-0.4	0	0	0	0	0	0	0	0
8/11/2024 22:23	45501	DERR_T2	0	0	0	0	0	0	0.46	0.23	2	2	0	1200	1200	0
8/11/2024 22:23	44203	POIN_T2	0	0	0	0	0	0	0	0.02	1	1	0	900	900	0
8/11/2024 22:23	40902	JESH_T1	0	0	0	0	0	0	-1.28	-1.33	1	1	0	600	600	0
8/11/2024 22:23	40101	HUNT_T2	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
8/11/2024 22:23	22405	MORG_T2	0	0	0	0	0	0	-1.37	-1.39	0	0	0	0	0	0
8/11/2024 22:23	59201	THOM_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 22:23	47002	HUGH_T2	7	2	-5	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
8/11/2024 22:23	65503	MOJO_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
8/11/2024 22:24	67605	WARW_T1	3	10	7	0.35	0.25	-0.1	-1.22	-1.21	0	0	0	0	0	0
8/11/2024 22:24	52401	GRPA_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
8/11/2024 22:24	44202	POIN_T2	1	1	0	2.7	2.3	-0.4	0	0	0	0	0	0	0	0
8/11/2024 22:24	55001	NEWP_T1	7	0	-7	0.11	0	-0.11	-0.52	-0.54	1	1	0	600	600	0
8/11/2024 22:24	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/11/2024 22:24	51003	NHAR_T1	0	0	0	0	0	0	-0.83	-0.83	1	1	0	1200	1200	0
8/11/2024 22:24	43202	MVIL_T2	0	3	3	0	0.1	0.1	-0.93	-0.95	0	0	0	0	0	0
8/11/2024 22:24	66505	SMAN_T2	3	3	0	0.3	0.53	0.23	-0.37	0.16	3	2	-1	2100	1500	-600
8/11/2024 22:24	58402	MORO_T1	0	0	0	0	0	0	-0.33	-0.34	2	2	0	1500	1500	0
8/11/2024 22:24	52403	GRPA_T2	2	2	0	0.1	0.15	0.05	-0.57	-0.58	0	0	0	0	0	0
8/11/2024 22:24	51002	NHAR_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
8/11/2024 22:24	55002	NEWP_T1	6	6	0	1.43	1.4	-0.03	-0.19	-0.2	0	0	0	0	0	0
8/11/2024 22:24	45402	WBLO_T2	2	2	0	0.9	1.05	0.15	-1.49	-1.47	1	1	0	900	900	0
8/11/2024 22:24	45501	DERR_T2	0	0	0	0	0	0	0.23	0.11	1	1	0	600	600	0
8/11/2024 22:24	64101	REFR_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
8/11/2024 22:24	51004	NHAR_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
8/11/2024 22:24	59003	MIFF_T1	1	1	0	0.1	0.4	0.3	0.37	0.37	0	0	0	0	0	0
8/11/2024 22:24	56501	ROCK_T2	10	5	-5	0.21	0.22	0.01	-3.23	-3.29	0	0	0	0	0	0
8/11/2024 22:24	46001	BERW_T1	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
8/11/2024 22:24	42201	SHEN_T2	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
8/11/2024 22:24	53803	MBRG_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
8/11/2024 22:24	58202	NEWV_T1	8	18	10	1.2	0.81	-0.39	-0.51	-0.52	0	0	0	0	0	0
8/11/2024 22:24	63303	GREE_T1	0	0	0	0	0	0	-1.07	-1.07	2	2	0	1800	1800	0
8/11/2024 22:24	52402	GRPA_T2	1	3	2	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
8/11/2024 22:24	44203	POIN_T2	0	0	0	0	0	0	0	0.02	1	1	0	900	900	0
8/11/2024 22:24	54001	SDLE_T1	0	1	1	0	0.8	0.8	0	0	0	2	2	0	1200	1200
8/11/2024 22:24	59002	MIFF_T1	5	6	1	0.3	0.52	0.22	0	0	0	0	0	0	0	0
8/11/2024 22:24	63305	GREE_T1	2	11	9	0.2	0.24	0.04	0	0	0	0	0	0	0	0
8/11/2024 22:24	46204	DANV_T2	0	0	0	0	0	0	-0.37	-0.4	1	1	0	1200	1200	0
8/11/2024 22:24	57702	PAXT_T1	0	0	0	0	0	0	-0.94	-0.89	0	0	0	0	0	0
8/11/2024 22:24	42802	SELI_T1	0	1	1	0	0.3	0.3	0.4	0.61	0	0	0	0	0	0
8/11/2024 22:24	46206	DANV_T2	1	3	2	0.6	0.6	0	0	0	0	0	0	0	0	0
8/11/2024 22:25	52401	GRPA_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
8/11/2024 22:25	46001	BERW_T1	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
8/11/2024 22:25	57304	MOAL_T2	0	0	0	0	0	0	-0.43	-0.59	0	0	0	0	0	0
8/11/2024 22:25	52403	GRPA_T2	2	2	0	0.1	0.15	0.05	-0.57	-0.58	0	0	0	0	0	0
8/11/2024 22:25	44301	BEAV_T2	0	0	0	0	0	0	-1.85	-1.86	2	2	0	1200	1200	0
8/11/2024 22:25	57704	PAXT_T2	0	0	0	0	0	0	-0.98	-1.01	1	1	0	900	900	0
8/11/2024 22:25	56501	ROCK_T2	10	5	-5	0.21	0.22	0.01	0	0	0	0	0	0	0	0
8/11/2024 22:25	55001	NEWP_T1	7	0	-7	0.11	0	-0.11	-0.52	-0.54	1	1	0	600	600	0
8/11/2024 22:25	43202	MVIL_T2	0	3	3	0	0.1	0.1	-0.93	-0.95	0	0	0	0	0	0
8/11/2024 22:25	53501	EVIL_T2	2	1	-1	0.3	1	0.7	-0.01	-0.01	1	1	0	600	600	0
8/11/2024 22:25	63304	GREE_T1	0	0	0	0	0	0	-1.46	-1.53	0	0	0	0	0	0
8/11/2024 22:25	55101	WERT_T1	0	0	0	0	0	0	-2.64	-2.74	4	4	0	3000	3000	0
8/11/2024 22:25	42802	SELI_T1	0	1	1	0	0.3	0.3	0.27	0.4	0	0	0	0	0	0
8/11/2024 22:25	58202	NEWV_T1	8	18	10	1.2	0.81	-0.39	-0.51	-0.52	0	0	0	0	0	0
8/11/2024 22:25	56504	ROCK_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
8/11/2024 22:25	63305	GREE_T1	2	11	9	0.2	0.24	0.04	0	0	0	0	0	0	0	0
8/11/2024 22:25	52402	GRPA_T2	1	3	2	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
8/11/2024 22:25	55002	NEWP_T1	6	6	0	1.43	1.4	-0.03	0	0	0	0	0	0	0	0
8/11/2024 22:25	57303	MOAL_T2	1	1	0	7.5	7.5	0	0	0	0	0	0	0	0	0
8/11/2024 22:25	52404	GRPA_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
8/11/2024 22:26	51204	MTON_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
8/11/2024 22:26	53501	EVIL_T2	2	1	-1	0.3	1	0.7	0	0	0	0	0	0	0	0
8/11/2024 22:26	53502	EVIL_T2	0	0	0	0	0	0	0.09	0.62	1	0	-1	600	0	-600
8/11/2024 22:26	59102	WALK_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/11/2024 22:26	46203	DANV_T2	0	0	0	0	0	0	-1.88	-1.91	0	0	0	0	0	0
8/11/2024 22:26	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 22:26	54701	NEBL_T1	1	1	0	1.7	1.9	0.2	0	0	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/11/2024 22:26	46206	DANV_T2	1	3	2	0.6	0.6	0	0	0	0	0	0	0	0	0
8/11/2024 22:26	59201	THOM_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/11/2024 22:26	55002	NEWP_T1	6	6	0	1.43	1.4	-0.03	-0.19	-0.2	0	0	0	0	0	0
8/11/2024 22:26	42802	SELI_T1	0	1	1	0	0.3	0.3	0.27	0.4	0	0	0	0	0	0
8/11/2024 22:26	55001	NEWP_T1	7	0	-7	0.11	0	-0.11	0	0	0	0	0	0	0	0
8/11/2024 22:26	59101	WALK_T2	0	0	0	0	0	0	0.82	0.96	1	1	0	600	600	0
8/11/2024 22:26	44301	BEAV_T2	0	0	0	0	0	0	-1.85	-1.86	2	2	0	1200	1200	0
8/11/2024 22:27	55002	NEWP_T1	6	6	0	1.43	1.4	-0.03	0	0	0	0	0	0	0	0
8/11/2024 22:27	41901	REED_T1	6	6	0	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
8/11/2024 22:27	52401	GRPA_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
8/11/2024 22:27	41902	REED_T1	0	0	0	0	0	0	0.09	0.07	1	1	0	900	900	0
8/11/2024 22:27	13904	SEID_T1	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
8/11/2024 22:27	46203	DANV_T2	0	0	0	0	0	0	-1.88	-1.91	0	0	0	0	0	0
8/11/2024 22:27	42902	MIDD_T2	0	0	0	0	0	0	-1.21	-1.21	1	1	0	600	600	0
8/11/2024 22:27	53501	EVIL_T2	2	1	-1	0.3	1	0.7	-0.01	-0.01	1	1	0	600	600	0
8/11/2024 22:27	53502	EVIL_T2	0	0	0	0	0	0	0.09	0.62	1	0	-1	600	0	-600
8/11/2024 22:27	46206	DANV_T2	1	3	2	0.6	0.6	0	0	0	0	0	0	0	0	0
8/11/2024 22:27	65205	PRIN_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
8/11/2024 22:27	55001	NEWP_T1	7	0	-7	0.11	0	-0.11	-0.52	-0.54	1	1	0	600	600	0
8/11/2024 22:27	42903	MIDD_T2	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/11/2024 22:27	52403	GRPA_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
8/11/2024 22:27	57702	PAXT_T1	0	0	0	0	0	0	-0.94	-0.89	0	0	0	0	0	0
8/11/2024 22:27	42802	SELI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/11/2024 22:27	52402	GRPA_T2	1	3	2	0.5	0.43	-0.07	-0.58	-0.62	0	0	0	0	0	0
8/11/2024 22:27	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 22:28	59101	WALK_T2	0	0	0	0	0	0	1.64	1.92	2	2	0	1200	1200	0
8/11/2024 22:28	59102	WALK_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/11/2024 22:28	40101	HUNT_T2	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
8/11/2024 22:28	55001	NEWP_T1	7	0	-7	0.11	0	-0.11	-0.52	-0.54	1	1	0	600	600	0
8/11/2024 22:28	41901	REED_T1	6	6	0	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
8/11/2024 22:28	55002	NEWP_T1	6	6	0	1.43	1.4	-0.03	0	0	0	0	0	0	0	0
8/11/2024 22:28	55101	WERT_T1	0	0	0	0	0	0	-1.32	-1.37	2	2	0	1500	1500	0
8/11/2024 22:28	41902	REED_T1	0	0	0	0	0	0	0.09	0.07	1	1	0	900	900	0
8/11/2024 22:28	46206	DANV_T2	1	3	2	0.6	0.6	0	0	0	0	0	0	0	0	0
8/11/2024 22:28	44301	BEAV_T2	0	0	0	0	0	0	-0.93	-0.93	1	1	0	600	600	0
8/11/2024 22:28	42802	SELI_T1	0	1	1	0	0.3	0.3	0.27	0.4	0	0	0	0	0	0
8/11/2024 22:28	46203	DANV_T2	0	0	0	0	0	0	-1.88	-1.91	0	0	0	0	0	0
8/11/2024 22:29	44203	POIN_T2	0	0	0	0	0	0	0	0.02	1	1	0	900	900	0
8/11/2024 22:29	10705	CATA_T2	0	0	0	0	0	0	-1.92	-1.96	1	1	0	900	900	0
8/11/2024 22:29	52403	GRPA_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
8/11/2024 22:29	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 22:29	52402	GRPA_T2	1	3	2	0.5	0.43	-0.07	-0.58	-0.62	0	0	0	0	0	0
8/11/2024 22:29	46203	DANV_T2	0	0	0	0	0	0	-1.88	-1.91	0	0	0	0	0	0
8/11/2024 22:29	46206	DANV_T2	1	3	2	0.6	0.6	0	0	0	0	0	0	0	0	0
8/11/2024 22:29	53802	MBRG_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
8/11/2024 22:29	44202	POIN_T2	1	1	0	2.7	2.3	-0.4	0	0	0	0	0	0	0	0
8/11/2024 22:29	52401	GRPA_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
8/11/2024 22:30	44302	BEAV_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
8/11/2024 22:30	53501	EVIL_T2	1	2	1	1	0.15	-0.85	-0.01	-0.01	1	1	0	600	600	0
8/11/2024 22:30	44301	BEAV_T2	0	0	0	0	0	0	-0.93	-0.93	1	1	0	600	600	0
8/11/2024 22:35	61801	EELI_T2	1	0	-1	0.2	0	-0.2	-0.64	-0.05	1	0	-1	600	0	-600
8/11/2024 22:37	43202	MVIL_T2	0	14	14	0	0.2	0.2	-0.95	-0.95	0	0	0	0	0	0
8/11/2024 22:56	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/11/2024 22:56	65207	PRIN_T4	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/11/2024 23:03	13904	SEID_T1	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
8/11/2024 23:09	66902	SHIL_T2	1430	1601	171	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/11/2024 23:09	66903	SHIL_T2	1417	1508	91	0.54	0.66	0.12	0	0	0	0	0	0	0	0
8/11/2024 23:09	66901	SHIL_T2	1076	1160	84	0.71	0.78	0.07	0	-0.03	0	0	0	0	0	0
8/11/2024 23:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/11/2024 23:13	29402	BELT_T1	38	1	-37	0.55	9.4	8.85	0	0	0	0	0	0	0	0
8/12/2024 2:45	52401	GRPA_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/12/2024 2:45	52403	GRPA_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/12/2024 2:45	52404	GRPA_T2	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
8/12/2024 2:45	52402	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/12/2024 6:57	21206	ECAR_T2	1	1	0	7	6.9	-0.1	0.06	0.08	0	0	0	0	0	0
8/12/2024 6:57	21204	ECAR_T2	1	1	0	0	0.4	0.4	0	0	0	0	0	0	0	0
8/12/2024 6:58	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/12/2024 6:58	29402	BELT_T1	1	1	0	8	8.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 7:06	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 7:08	67804	WLAN_T1	0	0	0	0	0	0	-1.08	-1.07	0	0	0	0	0	0
8/12/2024 7:10	67805	WLAN_T1	0	0	0	0	0	0	-2.1	-1.64	0	0	0	0	0	0
8/12/2024 7:12	50103	HARR_T3	0	2	2	0	1	1	-0.72	-0.72	1	1	0	1200	1200	0
8/12/2024 7:12	50105	HARR_T3	6	6	0	5.92	5.35	-0.57	0	0	0	0	0	0	0	0
8/12/2024 7:12	50107	HARR_T3	1	1	0	6.3	5.7	-0.6	0	0	0	0	0	0	0	0
8/12/2024 7:15	11103	EGYP_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
8/12/2024 7:16	11103	EGYP_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
8/12/2024 7:19	57704	PAXT_T2	0	0	0	0	0	0	-1.06	-1.01	1	1	0	900	900	0
8/12/2024 7:25	10705	CATA_T2	0	0	0	0	0	0	0.08	0.13	0	0	0	0	0	0
8/12/2024 7:26	15204	SPIT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 7:31	63501	HEID_TBK1-2	55	55	0	1.19	1.03	-0.16	0.29	0.26	1	1	0	900	900	0
8/12/2024 7:36	44201	POIN_T1	0	0	0	0	0	0	-1.01	-1.27	2	2	0	2100	2100	0
8/12/2024 7:38	44201	POIN_T1	0	0	0	0	0	0	-1.27	-1.46	2	2	0	2100	2100	0
8/12/2024 7:43	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 7:44	53601	DALM_T2	1	1	0	1	0.5	-0.5	0.18	0.71	0	0	0	0	0	0
8/12/2024 7:46	44801	EDAN_T2	0	50	50	0	0.27	0.27	-1.59	-1.6	0	0	0	0	0	0
8/12/2024 7:46	55508	HERS_T2	2	2	0	1.5	1.6	0.1	-2.52	-2.49	1	1	0	1200	1200	0
8/12/2024 7:47	40101	HUNT_T2	0	0	0	0	0	0	-0.56	-0.49	0	0	0	0	0	0
8/12/2024 7:49	47401	PENS_T1	0	0	0	0	0	0	0.97	1.12	0	0	0	0	0	0
8/12/2024 7:53	67804	WLAN_T1	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
8/12/2024 7:53	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 7:53	13905	SEID_T1	0	0	0	0	0	0	0.37	0.41	0	0	0	0	0	0
8/12/2024 7:53	67801	WLAN_T1	0	0	0	0	0	0	0.19	0.22	0	0	0	0	0	0
8/12/2024 7:54	67804	WLAN_T1	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
8/12/2024 7:54	12006	HATF_T1	0	0	0	0	0	0	1.06	1.07	1	1	0	1200	1200	0
8/12/2024 7:55	67803	WLAN_T1	0	0	0	0	0	0	-0.8	-0.83	0	0	0	0	0	0
8/12/2024 7:55	67804	WLAN_T1	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
8/12/2024 7:56	67804	WLAN_T1	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
8/12/2024 7:56	44301	BEAV_T2	1	2	1	1.4	2.4	1	0	0	0	0	0	0	0	0
8/12/2024 7:56	59101	WALK_T2	1	0	-1	0.5	0	-0.5	1.81	1.88	1	1	0	600	600	0
8/12/2024 7:58	67804	WLAN_T1	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
8/12/2024 8:00	50103	HARR_T3	2	2	0	0.85	1.1	0.25	0	0	0	0	0	0	0	0
8/12/2024 8:00	50107	HARR_T3	1	1	0	6.1	5.9	-0.2	0.56	0.6	0	0	0	0	0	0
8/12/2024 8:00	50105	HARR_T3	6	6	0	5.47	5.35	-0.12	0	0	0	0	0	0	0	0
8/12/2024 8:03	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/12/2024 8:03	42002	MNVL_T2	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
8/12/2024 8:03	42001	MNVL_T2	233	228	-5	0.54	0.44	-0.1	-0.23	-0.22	0	0	0	0	0	0
8/12/2024 8:04	65901	SAKR_T2	1	1	0	7.5	7.7	0.2	0	0	0	0	0	0	0	0
8/12/2024 8:04	65904	SAKR_T2	0	0	0	0	0	0	-1.98	-1.95	3	3	0	1500	1500	0
8/12/2024 8:05	41902	REED_T1	0	0	0	0	0	0	0.96	1.06	0	0	0	0	0	0
8/12/2024 8:05	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 8:07	67502	WEWI_T2	0	0	0	0	0	0	-0.11	-0.07	0	0	0	0	0	0
8/12/2024 8:07	67503	WEWI_T2	1	1	0	8.6	8.2	-0.4	0	0	0	0	0	0	0	0
8/12/2024 8:08	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 8:09	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 8:15	26704	HEML_T2	10	11	1	0.1	0.12	0.02	-0.75	-0.75	1	1	0	1200	1200	0
8/12/2024 8:16	63501	HEID_TBK1-2	55	55	0	1.2	1.27	0.07	0.28	0.35	1	1	0	900	900	0
8/12/2024 8:18	40602	PIGR_T1	1	1	0	0.9	0.8	-0.1	-0.54	-0.43	1	1	0	600	600	0
8/12/2024 8:18	55508	HERS_T2	2	2	0	1.6	1.35	-0.25	0	0	0	0	0	0	0	0
8/12/2024 8:19	50107	HARR_T3	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
8/12/2024 8:19	50105	HARR_T3	6	6	0	5.35	5.48	0.13	0	0	0	0	0	0	0	0
8/12/2024 8:19	50103	HARR_T3	2	2	0	1.1	1	-0.1	-0.71	-0.71	1	1	0	1200	1200	0
8/12/2024 8:23	65206	PRIN_T4	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/12/2024 8:23	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/12/2024 8:24	16301	ALPA_T1	0	0	0	0	0	0	-0.19	-0.07	0	0	0	0	0	0
8/12/2024 8:26	45602	WOOL_T1	2	1	-1	0.25	0.2	-0.05	0.74	0.75	0	0	0	0	0	0
8/12/2024 8:27	45602	WOOL_T1	2	1	-1	0.25	0.2	-0.05	0.74	0.75	0	0	0	0	0	0
8/12/2024 8:28	44801	EDAN_T2	50	97	47	0.27	0.42	0.15	-1.55	-1.47	0	0	0	0	0	0
8/12/2024 8:30	63306	GREE_T1	0	0	0	0	0	0	-2.01	-1.99	1	1	0	900	900	0
8/12/2024 8:31	53501	EVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/12/2024 8:31	53502	EVIL_T2	0	0	0	0	0	0	0.8	0.8	1	1	0	600	600	0
8/12/2024 8:33	58202	NEWV_T1	0	0	0	0	0	0	-0.12	-0.06	0	0	0	0	0	0
8/12/2024 8:34	58202	NEWV_T1	0	0	0	0	0	0	-0.12	-0.06	0	0	0	0	0	0
8/12/2024 8:34	65802	RTWN_T2	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
8/12/2024 8:36	42902	MIDD_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
8/12/2024 8:36	42903	MIDD_T2	2	2	0	0.65	1	0.35	0	0	0	0	0	0	0	0
8/12/2024 8:37	42903	MIDD_T2	2	2	0	0.65	1	0.35	0	0	0	0	0	0	0	0
8/12/2024 8:37	42902	MIDD_T2	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
8/12/2024 8:40	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
8/12/2024 8:40	15702	TANN_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
8/12/2024 8:42	11507	FREE_T2	0	0	0	0	0	0	0.15	0.2	0	0	0	0	0	0
8/12/2024 8:43	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 8:45	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 8:45	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
8/12/2024 8:47	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 8:47	50501	MECH_T1	4	4	0	1.48	1.13	-0.35	-0.91	-0.68	0	0	0	0	0	0
8/12/2024 8:47	50502	MECH_T1	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
8/12/2024 8:49	63403	HONY_T2	0	0	0	0	0	0	0.01	0.03	1	1	0	600	600	0
8/12/2024 8:49	64101	REFR_T1	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
8/12/2024 8:49	57702	PAXT_T1	0	0	0	0	0	0	-1.09	-1.08	0	0	0	0	0	0
8/12/2024 8:50	57702	PAXT_T1	0	0	0	0	0	0	-2.18	-2.16	0	0	0	0	0	0
8/12/2024 8:51	64101	REFR_T1	0	0	0	0	0	0	0.45	0.55	0	0	0	0	0	0
8/12/2024 8:52	59101	WALK_T2	0	3	3	0	0.27	0.27	1.72	1.88	1	0	-1	600	0	-600
8/12/2024 8:52	64101	REFR_T1	0	0	0	0	0	0	0.28	0.06	0	0	0	0	0	0
8/12/2024 8:52	41902	REED_T1	0	0	0	0	0	0	2.38	2.34	0	0	0	0	0	0
8/12/2024 8:52	59102	WALK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/12/2024 8:53	64101	REFR_T1	0	0	0	0	0	0	0.55	0.12	0	0	0	0	0	0
8/12/2024 8:53	56501	ROCK_T2	4	2	-2	0.3	0.6	0.3	0.12	0.08	0	0	0	0	0	0
8/12/2024 8:53	41902	REED_T1	0	0	0	0	0	0	1.19	1.17	0	0	0	0	0	0
8/12/2024 8:54	64101	REFR_T1	0	0	0	0	0	0	0.55	0.12	0	0	0	0	0	0
8/12/2024 8:55	64101	REFR_T1	0	0	0	0	0	0	0.28	0.06	0	0	0	0	0	0
8/12/2024 8:55	20401	ASHF_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/12/2024 8:55	56501	ROCK_T2	4	2	-2	0.3	0.6	0.3	0.23	0.16	0	0	0	0	0	0
8/12/2024 8:55	20403	ASHF_T2	0	0	0	0	0	0	1.27	1.3	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/12/2024 8:56	44301	BEAV_T2	2	1	-1	0.15	0	-0.15	0.19	-0.22	2	2	0	1500	1500	0
8/12/2024 8:57	29402	BELT_T1	1	1	0	8.8	8.5	-0.3	0	0	0	0	0	0	0	0
8/12/2024 8:57	29401	BELT_T1	18	17	-1	0.12	0.13	0.01	0	0	1	1	0	900	900	0
8/12/2024 8:58	53501	EVIL_T2	1	2	1	0.3	0.3	0	-0.01	-0.01	1	2	1	600	1500	900
8/12/2024 8:58	11507	FREE_T2	0	0	0	0	0	0	0.2	0.4	0	0	0	0	0	0
8/12/2024 8:58	20403	ASHF_T2	0	0	0	0	0	0	1.27	1.3	0	0	0	0	0	0
8/12/2024 8:58	20401	ASHF_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/12/2024 8:59	53501	EVIL_T2	1	2	1	0.3	0.3	0	-0.01	-0.01	1	2	1	600	1500	900
8/12/2024 8:59	44301	BEAV_T2	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/12/2024 9:00	53501	EVIL_T2	1	2	1	0.4	0.3	-0.1	-0.01	-0.01	2	4	2	1200	3000	1800
8/12/2024 9:01	64305	LINC_T1	1	1	0	0.4	0	-0.4	0.06	0.07	0	0	0	0	0	0
8/12/2024 9:02	64904	MILL_T1	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
8/12/2024 9:02	53501	EVIL_T2	1	2	1	0.4	0.3	-0.1	-0.01	-0.01	1	2	1	600	1500	900
8/12/2024 9:05	46302	ROHR_T1	5	5	0	1.86	1.54	-0.32	0.17	0.18	0	0	0	0	0	0
8/12/2024 9:05	53501	EVIL_T2	1	2	1	0.4	0.3	-0.1	-0.01	-0.01	1	2	1	600	1500	900
8/12/2024 9:05	55002	NEWP_T1	9	13	4	0.7	0.77	0.07	-0.14	-0.15	0	0	0	0	0	0
8/12/2024 9:05	46301	ROHR_T1	9	4	-5	1.03	2.1	1.07	0.27	0.26	0	0	0	0	0	0
8/12/2024 9:07	55002	NEWP_T1	9	13	4	0.7	0.77	0.07	-0.15	-0.14	0	0	0	0	0	0
8/12/2024 9:08	43102	SMIL_T2	6	4	-2	0.32	0.38	0.06	0	0	0	0	0	0	0	0
8/12/2024 9:08	43103	SMIL_T2	15	10	-5	0.37	0.37	0	0	0	0	0	0	0	0	0
8/12/2024 9:08	43106	SMIL_T2	0	0	0	0	0	0	-0.66	-0.69	2	2	0	2400	2400	0
8/12/2024 9:08	43104	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 9:08	43105	SMIL_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
8/12/2024 9:08	46301	ROHR_T1	9	4	-5	1.03	2.1	1.07	0	0	0	0	0	0	0	0
8/12/2024 9:08	46302	ROHR_T1	5	5	0	1.86	1.54	-0.32	0.18	0.19	0	0	0	0	0	0
8/12/2024 9:08	41902	REED_T1	0	0	0	0	0	0	1.17	1.15	0	0	0	0	0	0
8/12/2024 9:09	44301	BEAV_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/12/2024 9:10	67605	WARW_T1	0	0	0	0	0	0	-0.88	-0.82	0	0	0	0	0	0
8/12/2024 9:12	67605	WARW_T1	0	0	0	0	0	0	-0.88	-0.82	0	0	0	0	0	0
8/12/2024 9:14	45502	DERR_T2	0	0	0	0	0	0	0.24	0.21	1	1	0	300	300	0
8/12/2024 9:17	53502	EVIL_T2	0	0	0	0	0	0	-0.05	0.12	2	2	0	1200	1200	0
8/12/2024 9:17	53501	EVIL_T2	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/12/2024 9:18	40101	HUNT_T2	0	0	0	0	0	0	-0.34	-0.29	0	0	0	0	0	0
8/12/2024 9:20	42201	SHEN_T2	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
8/12/2024 9:20	55002	NEWP_T1	11	11	0	0.85	0.79	-0.06	-0.15	-0.14	0	0	0	0	0	0
8/12/2024 9:23	55002	NEWP_T1	11	11	0	0.85	0.79	-0.06	-0.14	-0.14	0	0	0	0	0	0
8/12/2024 9:24	41902	REED_T1	0	0	0	0	0	0	1.15	1.16	0	0	0	0	0	0
8/12/2024 9:25	44301	BEAV_T2	0	2	2	0	1	1	0	0	0	0	0	0	0	0
8/12/2024 9:25	67605	WARW_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
8/12/2024 9:25	20401	ASHF_T2	2	1	-1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
8/12/2024 9:25	20403	ASHF_T2	0	2	2	0	0.1	0.1	2.87	3.09	0	0	0	0	0	0
8/12/2024 9:26	15001	BLMO_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/12/2024 9:29	29401	BELT_T1	5	5	0	0.14	0.2	0.06	0	0	1	1	0	900	900	0
8/12/2024 9:29	29402	BELT_T1	1	1	0	8.3	8.1	-0.2	0	0	0	0	0	0	0	0
8/12/2024 9:34	25402	LAHA_T2	0	0	0	0	0	0	-0.58	-0.54	0	0	0	0	0	0
8/12/2024 9:39	41902	REED_T1	0	0	0	0	0	0	1.16	1.14	0	0	0	0	0	0
8/12/2024 9:41	44301	BEAV_T2	1	5	4	1	0.5	-0.5	0	0	0	0	0	0	0	0
8/12/2024 9:42	65702	RVIL_T2	0	0	0	0	0	0	-0.34	-0.31	1	1	0	600	600	0
8/12/2024 9:47	20601	GRWO_T2	7	32	25	0.63	0.57	-0.06	1.12	1.12	0	0	0	0	0	0
8/12/2024 9:47	23202	HIRU_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
8/12/2024 9:48	59003	MIFF_T1	1	1	0	0.3	0.3	0	-0.91	-1.05	0	0	0	0	0	0
8/12/2024 9:48	59002	MIFF_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 9:49	20601	GRWO_T2	7	32	25	0.63	0.57	-0.06	1.12	1.12	0	0	0	0	0	0
8/12/2024 9:51	44203	POIN_T2	0	4	4	0	0.73	0.73	0.19	0.46	2	2	0	2100	2100	0
8/12/2024 9:51	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 9:55	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 9:55	66505	SMAN_T2	0	0	0	0	0	0	0.71	0.83	2	2	0	1500	1500	0
8/12/2024 9:55	16101	BING_T2	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
8/12/2024 9:56	46004	BERW_T2	0	0	0	0	0	0	0.18	0.24	0	0	0	0	0	0
8/12/2024 9:56	46002	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 9:57	44301	BEAV_T2	2	4	2	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
8/12/2024 9:57	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/12/2024 9:58	46002	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 9:58	46004	BERW_T2	0	0	0	0	0	0	0.18	0.24	0	0	0	0	0	0
8/12/2024 10:00	67503	WEWI_T2	1	1	0	7.9	7.1	-0.8	0.24	0.25	0	0	0	0	0	0
8/12/2024 10:00	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	-0.08	-0.04	1	1	0	600	600	0
8/12/2024 10:00	65904	SAKR_T2	0	0	0	0	0	0	-1.87	-1.86	3	3	0	1500	1500	0
8/12/2024 10:00	59003	MIFF_T1	1	0	-1	0.3	0	-0.3	-1.05	-1.1	0	0	0	0	0	0
8/12/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-1.18	-1.46	2	2	0	2100	2100	0
8/12/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
8/12/2024 10:00	28102	TWLA_T2	9	11	2	0.17	0.39	0.22	0.25	0.24	0	0	0	0	0	0
8/12/2024 10:00	67502	WEWI_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
8/12/2024 10:00	54504	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/12/2024 10:00	41902	REED_T1	0	0	0	0	0	0	2.28	2.37	0	0	0	0	0	0
8/12/2024 10:00	14801	TREI_T2	8	28	20	0.44	0.23	-0.21	0	0	0	0	0	0	0	0
8/12/2024 10:00	66505	SMAN_T2	0	0	0	0	0	0	0.71	0.83	2	2	0	1500	1500	0
8/12/2024 10:00	47401	PENS_T1	1	1	0	0.9	0.2	-0.7	1.38	1.39	0	0	0	0	0	0
8/12/2024 10:00	14802	TREI_T2	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
8/12/2024 10:00	65901	SAKR_T2	1	1	0	6.6	7.6	1	0	0	0	0	0	0	0	0
8/12/2024 10:00	47403	PENS_T1	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
8/12/2024 10:00	40505	CRES_T1	3	3	0	4.83	4.5	-0.33	0.47	0.5	0	0	0	0	0	0
8/12/2024 10:00	54505	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/12/2024 10:00	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 10:00	23102	MOSC_T2	0	0	0	0	0	0	-2.84	-2.4	2	2	0	1800	1800	0
8/12/2024 10:00	57702	PAXT_T1	0	0	0	0	0	0	-2.94	-0.3	0	0	0	0	0	0
8/12/2024 10:06	50506	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 10:06	42302	MOWR_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
8/12/2024 10:06	50502	MECH_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
8/12/2024 10:06	50501	MECH_T1	4	4	0	0.5	0.48	-0.02	-0.38	-0.35	0	0	0	0	0	0
8/12/2024 10:07	41902	REED_T1	0	0	0	0	0	0	1.19	1.19	0	0	0	0	0	0
8/12/2024 10:07	42201	SHEN_T2	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
8/12/2024 10:08	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 10:08	42802	SELI_T1	1	1	0	0.2	0.1	-0.1	-0.75	-0.69	0	0	0	0	0	0
8/12/2024 10:08	66504	SMAN_T2	0	0	0	0	0	0	-1.7	-1.82	2	2	0	2400	2400	0
8/12/2024 10:08	42801	SELI_T1	0	0	0	0	0	0	-1.54	-2.05	1	1	0	1200	1200	0
8/12/2024 10:09	20401	ASHF_T2	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
8/12/2024 10:09	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 10:09	67605	WARW_T1	1	1	0	0.1	0.7	0.6	-0.81	-0.73	0	0	0	0	0	0
8/12/2024 10:09	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 10:09	20403	ASHF_T2	3	3	0	0.17	0.2	0.03	1.56	1.7	0	0	0	0	0	0
8/12/2024 10:09	20402	ASHF_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/12/2024 10:09	66504	SMAN_T2	0	0	0	0	0	0	-0.85	-0.91	1	1	0	1200	1200	0
8/12/2024 10:10	12006	HATF_T1	0	1	1	0	0.1	0.1	1.41	0.3	1	2	1	1200	2400	1200
8/12/2024 10:10	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 10:11	29401	BELT_T1	1	9	8	0.6	0.2	-0.4	0	0	1	1	0	900	900	0
8/12/2024 10:11	53601	DALM_T2	1	1	0	1	0.2	-0.8	-0.38	-0.32	1	1	0	900	900	0
8/12/2024 10:11	29402	BELT_T1	1	1	0	7.9	8.2	0.3	0	0	0	0	0	0	0	0
8/12/2024 10:12	20403	ASHF_T2	3	3	0	0.17	0.2	0.03	1.56	1.7	0	0	0	0	0	0
8/12/2024 10:12	45502	DERR_T2	0	1	1	0	0	0	0.12	0.11	1	1	0	300	300	0
8/12/2024 10:12	20401	ASHF_T2	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
8/12/2024 10:12	20402	ASHF_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/12/2024 10:13	20402	ASHF_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/12/2024 10:13	20401	ASHF_T2	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
8/12/2024 10:13	20403	ASHF_T2	3	3	0	0.17	0.2	0.03	1.56	1.7	0	0	0	0	0	0
8/12/2024 10:13	44801	EDAN_T2	48	48	0	0.29	0.31	0.02	-2.84	-2.86	0	0	0	0	0	0
8/12/2024 10:13	53501	EVIL_T2	1	1	0	0.1	0.2	0.1	-0.01	-0.01	4	4	0	3000	3000	0
8/12/2024 10:14	40101	HUNT_T2	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
8/12/2024 10:15	67605	WARW_T1	1	1	0	0.1	0.9	0.8	-0.81	-0.73	0	0	0	0	0	0
8/12/2024 10:15	53502	EVIL_T2	0	0	0	0	0	0	0.4	0.49	2	2	0	1200	1200	0
8/12/2024 10:15	40101	HUNT_T2	0	1	1	0	0	0	-0.18	-0.18	0	0	0	0	0	0
8/12/2024 10:15	53501	EVIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/12/2024 10:16	20601	GRWO_T2	31	33	2	0.59	0.77	0.18	1.12	1.13	0	0	0	0	0	0
8/12/2024 10:16	25503	MADI_T1	0	0	0	0	0	0	-0.78	-0.75	0	0	0	0	0	0
8/12/2024 10:16	12801	MICK_T1	0	0	0	0	0	0	-0.52	-0.58	1	1	0	600	600	0
8/12/2024 10:16	53501	EVIL_T2	0	1	1	0	0.3	0.3	-0.01	-0.01	2	2	0	1500	1500	0
8/12/2024 10:16	14404	SSLA_T1	3	7	4	2.73	1.36	-1.37	0	0	0	0	0	0	0	0
8/12/2024 10:16	12807	MICK_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/12/2024 10:16	14401	SSLA_T1	1	3	2	0.5	0.4	-0.1	-0.18	-0.07	0	0	0	0	0	0
8/12/2024 10:16	25501	MADI_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/12/2024 10:16	14403	SSLA_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
8/12/2024 10:16	26704	HEMI_T2	3	6	3	0.1	0.13	0.03	-0.7	-0.66	1	1	0	1200	1200	0
8/12/2024 10:16	25402	LAHA_T2	0	0	0	0	0	0	-0.46	-0.43	0	0	0	0	0	0
8/12/2024 10:17	53501	EVIL_T2	0	1	1	0	0.3	0.3	-0.01	-0.01	4	4	0	3000	3000	0
8/12/2024 10:17	11507	FREE_T2	0	0	0	0	0	0	0.5	0.53	0	0	0	0	0	0
8/12/2024 10:17	47001	HUGH_T2	3	3	0	7	8.67	1.67	0.07	-0.45	0	0	0	0	0	0
8/12/2024 10:18	26401	INOR_T1	1	2	1	6.1	6.5	0.4	0	0	0	0	0	0	0	0
8/12/2024 10:18	26402	INOR_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
8/12/2024 10:19	20601	GRWO_T2	31	33	2	0.59	0.77	0.18	1.12	1.13	0	0	0	0	0	0
8/12/2024 10:19	47001	HUGH_T2	3	3	0	7	8.67	1.67	0.07	-0.45	0	0	0	0	0	0
8/12/2024 10:19	44203	POIN_T2	4	4	0	0.83	0.6	-0.23	0.51	0.4	2	2	0	2100	2100	0
8/12/2024 10:19	64305	LINC_T1	1	1	0	0.4	0.1	-0.3	0.27	0.26	0	0	0	0	0	0
8/12/2024 10:19	44202	POIN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/12/2024 10:20	56501	ROCK_T2	1	2	1	1.3	0.6	-0.7	0.23	0.26	0	0	0	0	0	0
8/12/2024 10:20	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 10:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 10:21	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 10:21	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 10:21	56501	ROCK_T2	1	2	1	1.3	0.6	-0.7	0.23	0.26	0	0	0	0	0	0
8/12/2024 10:21	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/12/2024 10:21	42201	SHEN_T2	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
8/12/2024 10:22	44202	POIN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/12/2024 10:22	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 10:22	56501	ROCK_T2	1	2	1	1.3	0.6	-0.7	0.26	0.28	0	0	0	0	0	0
8/12/2024 10:22	44203	POIN_T2	4	4	0	0.83	0.6	-0.23	0.4	0.2	2	2	0	2100	2100	0
8/12/2024 10:23	44203	POIN_T2	4	4	0	0.83	0.6	-0.23	0.4	0.2	2	2	0	2100	2100	0
8/12/2024 10:23	59101	WALK_T2	0	5	5	0	0.36	0.36	1.95	1.46	1	1	0	600	600	0
8/12/2024 10:23	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 10:23	44202	POIN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/12/2024 10:24	56504	ROCK_T2	0	1	1	0	0	0	0.03	0.08	0	0	0	0	0	0
8/12/2024 10:24	16103	BING_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
8/12/2024 10:24	56501	ROCK_T2	1	2	1	1.3	0.6	-0.7	0.52	0.56	0	0	0	0	0	0
8/12/2024 10:24	16102	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/12/2024 10:25	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 10:25	56501	ROCK_T2	1	2	1	1.3	0.6	-0.7	0.26	0.28	0	0	0	0	0	0
8/12/2024 10:25	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 10:26	59101	WALK_T2	0	5	5	0	0.36	0.36	3.9	2.93	2	2	0	1200	1200	0
8/12/2024 10:26	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 10:27	23901	ERMO_T2	1	4	3	0.4	0.3	-0.1	-0.23	-0.24	0	0	0	0	0	0
8/12/2024 10:28	53601	DALM_T2	1	1	0	0.2	0.1	-0.1	-0.32	-0.27	1	1	0	900	900	0
8/12/2024 10:28	44802	EDAN_T2	0	0	0	0	0	0	-0.47	-0.41	0	0	0	0	0	0
8/12/2024 10:28	44801	EDAN_T2	11	49	38	0.53	0.32	-0.21	0	0	0	0	0	0	0	0
8/12/2024 10:29	63501	HEID_TBK1-2	55	55	0	2.02	1.89	-0.13	0.56	0.6	1	1	0	900	900	0
8/12/2024 10:29	44801	EDAN_T2	11	49	38	0.53	0.32	-0.21	0	0	0	0	0	0	0	0
8/12/2024 10:29	44802	EDAN_T2	0	0	0	0	0	0	-0.47	-0.41	0	0	0	0	0	0
8/12/2024 10:29	23202	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 10:29	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
8/12/2024 10:30	44801	EDAN_T2	48	41	-7	0.31	0.34	0.03	0	0	0	0	0	0	0	0
8/12/2024 10:30	23202	HIRU_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/12/2024 10:30	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
8/12/2024 10:30	44301	BEAV_T2	2	1	-1	0.5	1.5	1	-0.19	-0.09	2	2	0	1500	1500	0
8/12/2024 10:30	44802	EDAN_T2	0	0	0	0	0	0	-1.87	-1.65	0	0	0	0	0	0
8/12/2024 10:30	44302	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 10:30	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 10:30	63306	GREE_T1	0	0	0	0	0	0	-1.8	-1.79	1	1	0	900	900	0
8/12/2024 10:31	15703	TANN_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
8/12/2024 10:31	15702	TANN_T2	0	2	2	0	0.15	0.15	-0.15	-0.09	0	0	0	0	0	0
8/12/2024 10:32	55508	HERS_T2	2	2	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
8/12/2024 10:32	15702	TANN_T2	0	2	2	0	0.15	0.15	-0.15	-0.09	0	0	0	0	0	0
8/12/2024 10:32	63306	GREE_T1	0	0	0	0	0	0	-1.8	-1.79	1	1	0	900	900	0
8/12/2024 10:32	15703	TANN_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
8/12/2024 10:33	63501	HEID_TBK1-2	55	76	21	1.94	1.91	-0.03	1.13	1.2	2	2	0	1800	1800	0
8/12/2024 10:33	63306	GREE_T1	0	0	0	0	0	0	-1.8	-1.79	1	1	0	900	900	0
8/12/2024 10:34	40101	HUNT_T2	0	1	1	0	0	0	-0.18	0.04	0	0	0	0	0	0
8/12/2024 10:34	63304	GREE_T1	0	0	0	0	0	0	-1.28	-1.32	0	0	0	0	0	0
8/12/2024 10:34	52402	GRPA_T2	1	3	2	0.3	0.23	-0.07	-0.68	-0.58	0	0	0	0	0	0
8/12/2024 10:34	43202	MVIL_T2	44	56	12	0.48	0.78	0.3	-0.71	-0.71	0	0	0	0	0	0
8/12/2024 10:34	57702	PAXT_T1	0	1	1	0	0.8	0.8	0.49	0.56	0	0	0	0	0	0
8/12/2024 10:34	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 10:34	43201	MVIL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/12/2024 10:34	52403	GRPA_T2	3	3	0	0.47	0.53	0.06	0	0	0	0	0	0	0	0
8/12/2024 10:34	23202	HIRU_T2	0	1	1	0	0.2	0.2	0.13	0.14	0	0	0	0	0	0
8/12/2024 10:34	64101	REFR_T1	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
8/12/2024 10:35	57303	MOAL_T2	1	1	0	7.2	6.7	-0.5	0	0	0	0	0	0	0	0
8/12/2024 10:35	63304	GREE_T1	0	0	0	0	0	0	-1.28	-1.32	0	0	0	0	0	0
8/12/2024 10:35	57306	MOAL_T2	0	1	1	0	0.5	0.5	-2.95	-2.93	1	1	0	1200	1200	0
8/12/2024 10:35	64101	REFR_T1	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
8/12/2024 10:35	43201	MVIL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/12/2024 10:35	43202	MVIL_T2	44	56	12	0.48	0.78	0.3	-0.71	-0.71	0	0	0	0	0	0
8/12/2024 10:36	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 10:36	59101	WALK_T2	1	6	5	0.9	0.36	-0.54	1.95	1.46	1	1	0	600	600	0
8/12/2024 10:36	64101	REFR_T1	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
8/12/2024 10:37	65001	NEFF_T2	0	0	0	0	0	0	0	0.05	1	1	0	1200	1200	0
8/12/2024 10:37	43202	MVIL_T2	44	56	12	0.48	0.78	0.3	-0.71	-0.16	0	0	0	0	0	0
8/12/2024 10:37	57702	PAXT_T1	0	1	1	0	0.8	0.8	0.28	-0.91	0	0	0	0	0	0
8/12/2024 10:37	23002	SAJO_T1	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
8/12/2024 10:37	65003	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/12/2024 10:37	23001	SAJO_T1	1	1	0	0.5	0.3	-0.2	0.53	0.6	0	0	0	0	0	0
8/12/2024 10:37	43201	MVIL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/12/2024 10:38	64101	REFR_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
8/12/2024 10:39	64101	REFR_T1	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
8/12/2024 10:39	20401	ASHF_T2	4	5	1	0.45	0.46	0.01	0	0	0	0	0	0	0	0
8/12/2024 10:39	20403	ASHF_T2	2	1	-1	0.25	0.2	-0.05	1.77	1.74	0	0	0	0	0	0
8/12/2024 10:39	20402	ASHF_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
8/12/2024 10:39	13905	SEID_T1	0	0	0	0	0	0	-0.71	-0.68	1	1	0	1200	1200	0
8/12/2024 10:40	20403	ASHF_T2	2	1	-1	0.25	0.2	-0.05	1.77	1.74	0	0	0	0	0	0
8/12/2024 10:40	20402	ASHF_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
8/12/2024 10:40	46004	BERW_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
8/12/2024 10:40	20401	ASHF_T2	4	5	1	0.45	0.46	0.01	0	0	0	0	0	0	0	0
8/12/2024 10:40	67605	WARW_T1	1	1	0	0.7	0.9	0.2	-0.78	-0.77	0	0	0	0	0	0
8/12/2024 10:41	67605	WARW_T1	1	1	0	0.7	0.9	0.2	-0.78	-0.77	0	0	0	0	0	0
8/12/2024 10:41	44302	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 10:41	44301	BEAV_T2	2	1	-1	0.5	1.5	1	-0.09	0.04	2	2	0	1500	1500	0
8/12/2024 10:42	67605	WARW_T1	1	1	0	0.7	0.9	0.2	-0.78	-0.77	0	0	0	0	0	0
8/12/2024 10:42	67603	WARW_T1	0	0	0	0	0	0	0.16	0.2	0	0	0	0	0	0
8/12/2024 10:42	20402	ASHF_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
8/12/2024 10:42	20403	ASHF_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
8/12/2024 10:42	20401	ASHF_T2	4	5	1	0.45	0.46	0.01	0.2	0.15	0	0	0	0	0	0
8/12/2024 10:43	67804	WLAN_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
8/12/2024 10:43	67803	WLAN_T1	0	0	0	0	0	0	-0.66	-0.62	0	0	0	0	0	0
8/12/2024 10:44	20401	ASHF_T2	4	5	1	0.45	0.46	0.01	0	0	0	0	0	0	0	0
8/12/2024 10:44	44301	BEAV_T2	2	1	-1	0.5	1.5	1	0	0	0	0	0	0	0	0
8/12/2024 10:44	44302	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 10:44	20403	ASHF_T2	2	1	-1	0.25	0.2	-0.05	1.77	1.74	0	0	0	0	0	0
8/12/2024 10:44	67605	WARW_T1	1	1	0	0.7	0.9	0.2	-0.78	-0.77	0	0	0	0	0	0
8/12/2024 10:44	45802	HEGI_T2	10	27	17	0.31	0.43	0.12	0.24	0.42	2	2	0	1200	1200	0
8/12/2024 10:44	20402	ASHF_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
8/12/2024 10:45	40902	JESH_T1	0	0	0	0	0	0	-0.57	-0.57	2	2	0	1200	1200	0
8/12/2024 10:45	11102	EGYP_T1	3	4	1	0.2	0.47	0.27	0	0	0	0	0	0	0	0
8/12/2024 10:45	40901	JESH_T1	1	1	0	2	1.5	-0.5	0	0	0	0	0	0	0	0
8/12/2024 10:45	11104	EGYP_T1	0	0	0	0	0	0	1.78	1.83	0	0	0	0	0	0
8/12/2024 10:46	45802	HEGI_T2	26	20	-6	0.41	0.46	0.05	0.24	0.42	2	2	0	1200	1200	0
8/12/2024 10:50	51202	MTON_T2	1	1	0	0.2	0.2	0	0.36	0.39	0	0	0	0	0	0
8/12/2024 10:50	64902	MILL_T2	0	0	0	0	0	0	-0.36	-0.31	1	1	0	900	900	0
8/12/2024 10:51	60504	NMAN_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
8/12/2024 10:51	21701	SUBU_T1	1	1	0	6.7	6.4	-0.3	0	0	0	0	0	0	0	0
8/12/2024 10:51	57205	ROSS_T1	1	2	1	0.9	0.55	-0.35	0.68	0.7	0	0	0	0	0	0
8/12/2024 10:51	60501	NMAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 10:51	60502	NMAN_T2	0	0	0	0	0	0	0.16	0.2	0	0	0	0	0	0
8/12/2024 10:51	51202	MTON_T2	1	1	0	0.2	0.2	0	0.36	0.39	0	0	0	0	0	0
8/12/2024 10:51	21705	SUBU_T1	1	1	0	6	5.7	-0.3	0.04	0.01	1	1	0	1200	1200	0
8/12/2024 10:51	57203	ROSS_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/12/2024 10:52	42802	SELI_T1	0	1	1	0	0.1	0.1	-0.65	-0.62	0	0	0	0	0	0
8/12/2024 10:52	55002	NEWP_T1	8	9	1	0.69	0.74	0.05	-0.08	-0.08	0	0	0	0	0	0
8/12/2024 10:52	55001	NEWP_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/12/2024 10:54	42802	SELI_T1	0	1	1	0	0.1	0.1	-0.65	-0.62	0	0	0	0	0	0
8/12/2024 10:55	67805	WLAN_T1	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
8/12/2024 10:55	55001	NEWP_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/12/2024 10:55	67804	WLAN_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
8/12/2024 10:55	55002	NEWP_T1	8	9	1	0.69	0.74	0.05	-0.08	-0.08	0	0	0	0	0	0
8/12/2024 10:56	42802	SELI_T1	0	1	1	0	0.1	0.1	-0.65	-0.62	0	0	0	0	0	0
8/12/2024 10:57	61803	EELI_T2	1	1	0	0.2	0.5	0.3	0.63	0.65	1	1	0	600	600	0
8/12/2024 10:57	61801	EELI_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/12/2024 10:57	53601	DALM_T2	1	1	0	0.1	0.2	0.1	-0.25	-0.26	1	1	0	900	900	0
8/12/2024 10:58	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 11:00	29401	BELT_T1	1	4	3	0.3	0.23	-0.07	0	0	1	1	0	900	900	0
8/12/2024 11:00	44301	BEAV_T2	1	2	1	1.5	0.7	-0.8	0	0	0	0	0	0	0	0
8/12/2024 11:00	12704	MACU_T1	0	0	0	0	0	0	-1.24	-1.18	1	1	0	600	600	0
8/12/2024 11:00	29402	BELT_T1	1	1	0	7.7	7.5	-0.2	0	0	0	0	0	0	0	0
8/12/2024 11:01	40901	JESH_T1	1	1	0	2	1.2	-0.8	0	0	0	0	0	0	0	0
8/12/2024 11:01	15702	TANN_T2	1	0	-1	0.2	0	-0.2	0	-0.11	0	0	0	0	0	0
8/12/2024 11:01	11102	EGYP_T1	3	4	1	0.47	0.53	0.06	0	0	0	0	0	0	0	0
8/12/2024 11:01	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
8/12/2024 11:01	11104	EGYP_T1	0	0	0	0	0	0	0.91	0.93	0	0	0	0	0	0
8/12/2024 11:01	40902	JESH_T1	0	0	0	0	0	0	-0.57	-0.6	2	2	0	1200	1200	0
8/12/2024 11:01	20802	LOPO_T1	0	1	1	0	0.1	0.1	-0.48	-0.48	1	1	0	600	600	0
8/12/2024 11:02	40902	JESH_T1	0	0	0	0	0	0	-0.57	-0.6	2	2	0	1200	1200	0
8/12/2024 11:02	40901	JESH_T1	1	1	0	2	1.2	-0.8	0	0	0	0	0	0	0	0
8/12/2024 11:07	56501	ROCK_T2	1	2	1	1.6	1.2	-0.4	0	0	0	0	0	0	0	0
8/12/2024 11:07	44703	MUNC_T2	0	0	0	0	0	0	1.15	1.08	0	0	0	0	0	0
8/12/2024 11:07	56504	ROCK_T2	0	0	0	0	0	0	0.17	0.25	0	0	0	0	0	0
8/12/2024 11:08	45602	WOOL_T1	0	0	0	0	0	0	0.87	0.88	0	0	0	0	0	0
8/12/2024 11:08	56501	ROCK_T2	1	2	1	1.6	1.2	-0.4	0	0	0	0	0	0	0	0
8/12/2024 11:08	56504	ROCK_T2	0	0	0	0	0	0	0.08	0.13	0	0	0	0	0	0
8/12/2024 11:09	43802	SWIL_T1	0	0	0	0	0	0	0.14	0.17	1	1	0	600	600	0
8/12/2024 11:09	43801	SWIL_T1	1	2	1	6	2.8	-3.2	0	0	0	0	0	0	0	0
8/12/2024 11:09	45602	WOOL_T1	0	0	0	0	0	0	0.87	0.88	0	0	0	0	0	0
8/12/2024 11:10	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/12/2024 11:13	60802	BUCK_T1	0	0	0	0	0	0	-0.39	-0.33	1	1	0	600	600	0
8/12/2024 11:15	45501	DERR_T2	1	1	0	0.6	0.6	0	1.55	1.36	4	4	0	3600	3600	0
8/12/2024 11:16	16101	BING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/12/2024 11:16	13502	MCMI_T1	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
8/12/2024 11:16	16103	BING_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/12/2024 11:16	16102	BING_T2	1	1	0	0.5	0.6	0.1	0.32	0.39	1	1	0	1200	1200	0
8/12/2024 11:18	46802	HEPB_T1	1	1	0	0.4	0.4	0	0.01	0.02	0	0	0	0	0	0
8/12/2024 11:18	58402	MORO_T1	0	0	0	0	0	0	0.1	0.05	2	2	0	1500	1500	0
8/12/2024 11:18	47202	FAXO_T2	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
8/12/2024 11:18	12701	MACU_T1	0	0	0	0	0	0	0.64	0.6	0	0	0	0	0	0
8/12/2024 11:19	41001	LAUR_T2	68	76	8	0.5	0.53	0.03	0	0	0	0	0	0	0	0
8/12/2024 11:19	63501	HEID_TBK1-2	55	55	0	1.78	1.98	0.2	0.61	0.73	1	1	0	900	900	0
8/12/2024 11:19	41002	LAUR_T2	46	47	1	0.31	0.38	0.07	0.16	0.17	0	0	0	0	0	0
8/12/2024 11:19	13502	MCMI_T1	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
8/12/2024 11:19	56501	ROCK_T2	2	1	-1	0.95	0.8	-0.15	0	0	0	0	0	0	0	0
8/12/2024 11:19	13501	MCMI_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
8/12/2024 11:19	56504	ROCK_T2	0	0	0	0	0	0	0.08	0.13	0	0	0	0	0	0
8/12/2024 11:21	64101	REFR_T1	0	0	0	0	0	0	0.24	0.27	0	0	0	0	0	0
8/12/2024 11:22	48302	ORWI_T2	2	2	0	0.55	0.35	-0.2	-0.36	-0.35	0	0	0	0	0	0
8/12/2024 11:26	49803	UNIV_T1	2	3	1	2.75	2.07	-0.68	-1.85	-1.87	0	0	0	0	0	0
8/12/2024 11:27	29402	BELT_T1	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
8/12/2024 11:27	67602	WARW_T2	0	0	0	0	0	0	4.42	0.93	3	3	0	900	900	0
8/12/2024 11:27	29401	BELT_T1	2	3	1	0.25	0.27	0.02	0	0	1	1	0	900	900	0
8/12/2024 11:28	11402	FARM_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/12/2024 11:28	11404	FARM_T1	0	0	0	0	0	0	1.23	1.31	0	0	0	0	0	0
8/12/2024 11:29	28702	HAML_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
8/12/2024 11:32	12703	MACU_T2	0	0	0	0	0	0	-0.48	-0.54	0	0	0	0	0	0
8/12/2024 11:33	42002	MNVL_T2	1	1	0	3.6	3.7	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/12/2024 11:33	40901	JESH_T1	1	1	0	1.2	1.6	0.4	0.56	0.59	0	0	0	0	0	0
8/12/2024 11:33	42903	MIDD_T2	1	1	0	0.3	0.1	-0.2	0.64	0.57	1	1	0	1200	1200	0
8/12/2024 11:33	42001	MNVL_T2	60	28	-32	0.44	0.25	-0.19	0	0.04	0	0	0	0	0	0
8/12/2024 11:36	16603	PONO_T2	0	0	0	0	0	0	0.56	0.5	1	1	0	1200	1200	0
8/12/2024 11:38	58202	NEWV_T1	0	0	0	0	0	0	0.26	0.16	0	0	0	0	0	0
8/12/2024 11:38	57004	WHHI_T2	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
8/12/2024 11:39	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 11:39	66703	STRA_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
8/12/2024 11:41	44301	BEAV_T2	2	2	0	1	0	-1	0.06	0.01	2	2	0	1500	1500	0
8/12/2024 11:42	16004	DORN_T1	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
8/12/2024 11:42	29402	BELT_T1	1	2	1	7.5	3.8	-3.7	0	0	0	0	0	0	0	0
8/12/2024 11:42	11104	EGYP_T1	0	5	5	0	0.38	0.38	0.99	1	0	0	0	0	0	0
8/12/2024 11:42	29401	BELT_T1	3	2	-1	0.27	0.25	-0.02	0	0	1	1	0	900	900	0
8/12/2024 11:42	16001	DORN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/12/2024 11:42	11102	EGYP_T1	3	4	1	0.53	0.27	-0.26	0	0	0	0	0	0	0	0
8/12/2024 11:42	45501	DERR_T2	1	1	0	0.6	0.6	0	0.79	0.67	2	2	0	1800	1800	0
8/12/2024 11:42	44301	BEAV_T2	2	2	0	1	0	-1	0	0	0	0	0	0	0	0
8/12/2024 11:42	16005	DORN_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
8/12/2024 11:43	11102	EGYP_T1	3	4	1	0.53	0.27	-0.26	0	0	0	0	0	0	0	0
8/12/2024 11:43	11104	EGYP_T1	0	5	5	0	0.38	0.38	1.98	2	0	0	0	0	0	0
8/12/2024 11:43	60801	BUCK_T1	0	0	0	0	0	0	-0.33	-0.4	1	1	0	600	600	0
8/12/2024 11:45	29402	BELT_T1	1	2	1	7.2	3.8	-3.4	0	0	0	0	0	0	0	0
8/12/2024 11:45	29401	BELT_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/12/2024 11:46	57501	LAWN_T3	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/12/2024 11:46	57505	LAWN_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 11:46	57506	LAWN_T3	0	0	0	0	0	0	1.08	1.06	1	1	0	600	600	0
8/12/2024 11:48	63403	HONY_T2	0	1	1	0	0.1	0.1	-0.14	-0.21	1	1	0	600	600	0
8/12/2024 11:48	13503	MCMI_T2	1	1	0	0.8	1	0.2	0.07	0.11	0	0	0	0	0	0
8/12/2024 11:50	44202	POIN_T2	1	1	0	1	0.6	-0.4	-0.35	-0.38	1	1	0	1200	1200	0
8/12/2024 11:50	44203	POIN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 11:51	59201	THOM_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/12/2024 11:51	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 11:52	64902	MILL_T2	0	0	0	0	0	0	-0.21	-0.87	1	1	0	900	900	0
8/12/2024 11:52	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 11:52	59201	THOM_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/12/2024 11:54	40603	PIGR_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/12/2024 11:54	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 11:54	40602	PIGR_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
8/12/2024 11:54	59201	THOM_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/12/2024 11:54	57002	WHHI_T2	0	0	0	0	0	0	-0.9	-0.9	1	1	0	1200	1200	0
8/12/2024 11:54	40601	PIGR_T1	2	1	-1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
8/12/2024 11:55	59201	THOM_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/12/2024 11:55	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 11:56	22903	HARW_T1	6	18	12	0.23	0.29	0.06	0.63	0.49	0	0	0	0	0	0
8/12/2024 11:58	44302	BEAV_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/12/2024 11:58	51603	DUKE_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
8/12/2024 11:58	44301	BEAV_T2	2	2	0	0.9	0.45	-0.45	0	0	0	0	0	0	0	0
8/12/2024 12:00	11104	EGYP_T1	5	5	0	0.38	0.68	0.3	0	0	0	0	0	0	0	0
8/12/2024 12:00	11102	EGYP_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
8/12/2024 12:00	11101	EGYP_T1	0	0	0	0	0	0	0.74	0.76	1	1	0	1200	1200	0
8/12/2024 12:00	55507	HERS_T1	0	0	0	0	0	0	1.02	1.05	0	0	0	0	0	0
8/12/2024 12:01	52402	GRPA_T2	5	0	-5	0.24	0	-0.24	-0.65	-0.64	0	0	0	0	0	0
8/12/2024 12:01	52403	GRPA_T2	1	4	3	0.4	0.4	0	0.29	0.3	0	0	0	0	0	0
8/12/2024 12:01	52404	GRPA_T2	0	0	0	0	0	0	0.35	0.73	0	0	0	0	0	0
8/12/2024 12:01	44801	EDAN_T2	11	7	-4	0.32	0.4	0.08	-1.38	-1.42	0	0	0	0	0	0
8/12/2024 12:02	52402	GRPA_T2	5	0	-5	0.24	0	-0.24	-0.65	-0.64	0	0	0	0	0	0
8/12/2024 12:02	40101	HUNT_T2	11	39	28	0.4	0.3	-0.1	0.06	0.06	0	0	0	0	0	0
8/12/2024 12:02	52403	GRPA_T2	1	4	3	0.4	0.4	0	0	0	0	0	0	0	0	0
8/12/2024 12:02	63602	LETO_T1	0	0	0	0	0	0	0.28	0.12	0	0	0	0	0	0
8/12/2024 12:03	63602	LETO_T1	0	0	0	0	0	0	0.28	0.12	0	0	0	0	0	0
8/12/2024 12:05	64301	LINC_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/12/2024 12:05	64305	LINC_T1	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
8/12/2024 12:06	56504	ROCK_T2	0	1	1	0	0.4	0.4	0.06	0.1	0	0	0	0	0	0
8/12/2024 12:06	55101	WERT_T1	0	0	0	0	0	0	-1.89	-1.86	4	4	0	3300	3300	0
8/12/2024 12:06	56501	ROCK_T2	1	2	1	1.1	0.55	-0.55	0	0	0	0	0	0	0	0
8/12/2024 12:07	63602	LETO_T1	0	0	0	0	0	0	0.12	0.21	0	0	0	0	0	0
8/12/2024 12:07	55002	NEWP_T1	4	8	4	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
8/12/2024 12:07	55001	NEWP_T1	0	0	0	0	0	0	0.19	0.06	0	0	0	0	0	0
8/12/2024 12:08	55002	NEWP_T1	4	8	4	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
8/12/2024 12:08	55001	NEWP_T1	0	0	0	0	0	0	0.19	0.06	0	0	0	0	0	0
8/12/2024 12:08	44202	POIN_T2	1	2	1	0.8	0.6	-0.2	-0.4	-0.28	1	1	0	1200	1200	0
8/12/2024 12:08	47401	PENS_T1	1	0	-1	0.7	0	-0.7	0.35	0.54	0	0	0	0	0	0
8/12/2024 12:08	16504	STRO_T1	0	0	0	0	0	0	1.21	1.21	0	0	0	0	0	0
8/12/2024 12:08	47403	PENS_T1	1	1	0	0.1	2.2	2.1	0	0	0	0	0	0	0	0
8/12/2024 12:08	64802	MONE_T2	3	4	1	0.57	0.38	-0.19	0.23	0.27	0	0	0	0	0	0
8/12/2024 12:09	55105	WERT_T1	0	0	0	0	0	0	0.03	0.07	1	1	0	900	900	0
8/12/2024 12:09	64802	MONE_T2	3	4	1	0.57	0.38	-0.19	0.23	0.27	0	0	0	0	0	0
8/12/2024 12:09	22903	HARW_T1	18	7	-11	0.51	0	-0.51	0	0	0	0	0	0	0	0
8/12/2024 12:09	22901	HARW_T1	0	0	0	0	0	0	0.04	0.13	1	1	0	1200	1200	0
8/12/2024 12:10	59201	THOM_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/12/2024 12:10	44301	BEAV_T2	0	2	2	0	0.45	0.45	-1.29	-0.95	2	2	0	1500	1500	0
8/12/2024 12:10	44302	BEAV_T2	0	4	4	0	0.48	0.48	0	0	0	0	0	0	0	0
8/12/2024 12:10	59202	THOM_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/12/2024 12:11	59202	THOM_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/12/2024 12:11	59201	THOM_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/12/2024 12:11	55101	WERT_T1	0	0	0	0	0	0	-3.71	-3.76	8	8	0	6600	6600	0
8/12/2024 12:12	16102	BING_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/12/2024 12:12	16103	BING_T2	0	1	1	0	0.4	0.4	-0.65	-0.59	1	1	0	600	600	0
8/12/2024 12:12	16101	BING_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/12/2024 12:12	44301	BEAV_T2	0	2	2	0	0.45	0.45	-1.29	-0.95	2	2	0	1500	1500	0
8/12/2024 12:12	44302	BEAV_T2	0	4	4	0	0.48	0.48	0	0	0	0	0	0	0	0
8/12/2024 12:14	53502	EVIL_T2	1	0	-1	0.2	0	-0.2	0.13	0.08	2	2	0	1200	1200	0
8/12/2024 12:14	44301	BEAV_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
8/12/2024 12:14	53501	EVIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/12/2024 12:14	44302	BEAV_T2	0	4	4	0	0.48	0.48	0.72	0.74	0	0	0	0	0	0
8/12/2024 12:15	46101	MACI_T2	0	0	0	0	0	0	0.21	0.23	1	1	0	1200	1200	0
8/12/2024 12:16	56504	ROCK_T2	0	1	1	0	0.4	0.4	0.1	0.1	0	0	0	0	0	0
8/12/2024 12:16	56501	ROCK_T2	1	2	1	1.3	0.65	-0.65	0	0	0	0	0	0	0	0
8/12/2024 12:17	63602	LETO_T1	0	0	0	0	0	0	0.24	0.42	0	0	0	0	0	0
8/12/2024 12:18	45702	LIND_T2	1	1	0	1.5	1.2	-0.3	-1.56	-1.54	0	0	0	0	0	0
8/12/2024 12:18	47502	NECO_T1	0	0	0	0	0	0	2.75	2.61	0	0	0	0	0	0
8/12/2024 12:19	63401	HONY_T1	0	0	0	0	0	0	0.47	0.34	1	1	0	600	600	0
8/12/2024 12:20	61703	ELIZ_T1	0	0	0	0	0	0	-1.43	-1.38	1	1	0	900	900	0
8/12/2024 12:20	61701	ELIZ_T1	2	1	-1	2.35	4.4	2.05	0	0	0	0	0	0	0	0
8/12/2024 12:20	63403	HONY_T2	1	0	-1	0.1	0	-0.1	-0.16	-0.1	1	1	0	600	600	0
8/12/2024 12:20	15203	SFAR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/12/2024 12:21	61703	ELIZ_T1	0	0	0	0	0	0	-1.43	-1.38	1	1	0	900	900	0
8/12/2024 12:21	12701	MACU_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
8/12/2024 12:21	66703	STRA_T1	0	0	0	0	0	0	0.43	0.46	0	0	0	0	0	0
8/12/2024 12:21	61701	ELIZ_T1	2	1	-1	2.35	4.4	2.05	0	0	0	0	0	0	0	0
8/12/2024 12:22	12701	MACU_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
8/12/2024 12:22	65205	PRIN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/12/2024 12:22	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/12/2024 12:23	61703	ELIZ_T1	0	0	0	0	0	0	-1.38	-1.39	1	1	0	900	900	0
8/12/2024 12:23	59102	WALK_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/12/2024 12:23	61701	ELIZ_T1	2	1	-1	2.35	4.4	2.05	0	0	0	0	0	0	0	0
8/12/2024 12:23	59101	WALK_T2	2	2	0	0.35	0.2	-0.15	1.22	1.3	2	2	0	1200	1200	0
8/12/2024 12:24	55001	NEWP_T1	0	1	1	0	0.2	0.2	0.06	-0.35	0	1	1	0	600	600
8/12/2024 12:24	55002	NEWP_T1	5	9	4	0.28	0.44	0.16	0	0	0	0	0	0	0	0
8/12/2024 12:25	29402	BELT_T1	2	4	2	3.5	2.45	-1.05	0	0	0	0	0	0	0	0
8/12/2024 12:26	55105	WERT_T1	0	0	0	0	0	0	0.07	0.1	1	1	0	900	900	0
8/12/2024 12:26	29402	BELT_T1	2	4	2	3.5	2.45	-1.05	0	0	0	0	0	0	0	0
8/12/2024 12:26	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 12:27	60904	DONG_T2	3	1	-2	0.37	0.8	0.43	0	0	0	0	0	0	0	0
8/12/2024 12:27	60902	DONG_T2	0	0	0	0	0	0	1.21	1.28	0	0	0	0	0	0
8/12/2024 12:27	60901	DONG_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/12/2024 12:28	11901	ETEX_T2	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
8/12/2024 12:30	61703	ELIZ_T1	0	0	0	0	0	0	-1.38	-1.39	1	1	0	900	900	0
8/12/2024 12:30	61701	ELIZ_T1	1	2	1	4.4	2.25	-2.15	0	0	0	0	0	0	0	0
8/12/2024 12:30	63306	GREE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/12/2024 12:30	63305	GREE_T1	1	0	-1	0.1	0	-0.1	-1.75	-1.74	1	1	0	900	900	0
8/12/2024 12:31	63305	GREE_T1	1	0	-1	0.1	0	-0.1	-1.75	-1.74	1	1	0	900	900	0
8/12/2024 12:31	63306	GREE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/12/2024 12:32	63302	GREE_T1	0	0	0	0	0	0	1.02	1.1	0	0	0	0	0	0
8/12/2024 12:32	49803	UNIV_T1	1	1	0	5.7	6	0.3	-1.83	-1.74	0	0	0	0	0	0
8/12/2024 12:32	42903	MIDD_T2	0	0	0	0	0	0	1.16	0.71	0	1	1	0	1200	1200
8/12/2024 12:32	15203	SFAR_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/12/2024 12:32	63306	GREE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/12/2024 12:32	63305	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 12:33	15203	SFAR_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/12/2024 12:33	63305	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 12:33	63306	GREE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/12/2024 12:33	63303	GREE_T1	0	0	0	0	0	0	-0.31	-0.01	2	2	0	1800	1800	0
8/12/2024 12:33	63602	LETO_T1	0	0	0	0	0	0	0.21	0.44	0	0	0	0	0	0
8/12/2024 12:34	15203	SFAR_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/12/2024 12:35	40603	PIGR_T1	1	2	1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
8/12/2024 12:35	40601	PIGR_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/12/2024 12:35	40602	PIGR_T1	1	1	0	1.6	0.5	-1.1	-0.16	-0.02	1	1	0	600	600	0
8/12/2024 12:36	65901	SAKR_T2	1	1	0	7.4	7.8	0.4	-0.76	-0.76	2	2	0	1500	1500	0
8/12/2024 12:36	65604	QVIL_T2	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
8/12/2024 12:37	66501	SMAN_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/12/2024 12:37	24105	EHAZ_T1	4	4	0	6.3	6.58	0.28	0	0	0	0	0	0	0	0
8/12/2024 12:37	43801	SWIL_T1	2	1	-1	2.8	5.6	2.8	0	0	0	0	0	0	0	0
8/12/2024 12:37	24102	EHAZ_T1	2	1	-1	0.85	0.5	-0.35	0.61	0.59	0	0	0	0	0	0
8/12/2024 12:37	43802	SWIL_T1	0	0	0	0	0	0	0.17	0.18	1	1	0	600	600	0
8/12/2024 12:37	57303	MOAL_T2	1	1	0	7.6	7.6	0	0	0	0	0	0	0	0	0
8/12/2024 12:37	66703	STRA_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
8/12/2024 12:37	67702	WERN_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
8/12/2024 12:37	66502	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/12/2024 12:37	24101	EHAZ_T1	20	12	-8	0.76	0.55	-0.21	0	0	0	0	0	0	0	0
8/12/2024 12:37	24104	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 12:37	67703	WERN_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
8/12/2024 12:37	66505	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/12/2024 12:37	67002	STHI_T2	0	0	0	0	0	0	1.15	1.17	0	0	0	0	0	0
8/12/2024 12:37	66503	SMAN_T2	0	0	0	0	0	0	0.81	0.85	0	0	0	0	0	0
8/12/2024 12:37	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 12:37	57302	MOAL_T2	0	0	0	0	0	0	-0.98	-1.13	1	1	0	1200	1200	0
8/12/2024 12:38	59201	THOM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/12/2024 12:38	56504	ROCK_T2	1	0	-1	0.4	0	-0.4	0.11	0.09	0	0	0	0	0	0
8/12/2024 12:38	67702	WERN_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
8/12/2024 12:38	59202	THOM_T1	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
8/12/2024 12:38	56501	ROCK_T2	2	3	1	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
8/12/2024 12:38	67703	WERN_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
8/12/2024 12:41	51301	WIND_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
8/12/2024 12:41	51303	WIND_T1	14	14	0	0.27	0.34	0.07	0	0	0	0	0	0	0	0
8/12/2024 12:41	42802	SELI_T1	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
8/12/2024 12:42	51303	WIND_T1	14	14	0	0.27	0.34	0.07	0	0	0	0	0	0	0	0
8/12/2024 12:42	51301	WIND_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
8/12/2024 12:43	53901	HALI_T2	0	0	0	0	0	0	-0.94	-0.91	0	0	0	0	0	0
8/12/2024 12:43	53903	HALI_T2	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/12/2024 12:43	53902	HALI_T2	1	1	0	4.3	4	-0.3	0	0	0	0	0	0	0	0
8/12/2024 12:45	26402	INOR_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
8/12/2024 12:45	44801	EDAN_T2	9	2	-7	0.3	0.45	0.15	-2.79	-2.7	0	0	0	0	0	0
8/12/2024 12:45	26401	INOR_T1	1	1	0	7.9	7.6	-0.3	0	0	0	0	0	0	0	0
8/12/2024 12:45	53902	HALI_T2	1	3	2	3.9	1.77	-2.13	0	0	0	0	0	0	0	0
8/12/2024 12:45	53901	HALI_T2	0	0	0	0	0	0	-0.94	-0.91	0	0	0	0	0	0
8/12/2024 12:45	53903	HALI_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/12/2024 12:45	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 12:46	46802	HEPB_T1	1	1	0	0.6	0.3	-0.3	0.07	0.06	0	0	0	0	0	0
8/12/2024 12:46	53901	HALI_T2	0	0	0	0	0	0	-1.87	-1.82	0	0	0	0	0	0
8/12/2024 12:46	53902	HALI_T2	1	3	2	3.9	1.77	-2.13	0	0	0	0	0	0	0	0
8/12/2024 12:46	53903	HALI_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/12/2024 12:47	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	900	900	0
8/12/2024 12:47	53903	HALI_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/12/2024 12:47	55101	WERT_T1	0	0	0	0	0	0	-1.89	-1.83	4	4	0	3300	3300	0
8/12/2024 12:47	53901	HALI_T2	0	0	0	0	0	0	-0.94	-0.91	0	0	0	0	0	0
8/12/2024 12:47	55103	WERT_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
8/12/2024 12:47	53902	HALI_T2	1	3	2	3.9	1.77	-2.13	0	0	0	0	0	0	0	0
8/12/2024 12:48	64305	LINC_T1	0	1	1	0	0.4	0.4	0.35	0.37	0	0	0	0	0	0
8/12/2024 12:49	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/12/2024 12:50	63404	HONY_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 12:50	63401	HONY_T1	0	0	0	0	0	0	0.65	0.6	1	1	0	600	600	0
8/12/2024 12:51	12402	MILF_T1	24	40	16	0.48	0.5	0.02	0.98	1.01	0	0	0	0	0	0
8/12/2024 12:51	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 12:51	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/12/2024 12:51	12403	MILF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/12/2024 12:51	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 12:51	63401	HONY_T1	0	0	0	0	0	0	0.65	0.6	1	1	0	600	600	0
8/12/2024 12:51	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	900	900	0
8/12/2024 12:51	65206	PRIN_T4	1	0	-1	2.8	0	-2.8	0	0	0	0	0	0	0	0
8/12/2024 12:51	63404	HONY_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 12:52	66703	STRA_T1	0	0	0	0	0	0	0.53	0.64	0	0	0	0	0	0
8/12/2024 12:57	11102	EGYP_T1	1	1	0	0.3	0.8	0.5	0.08	0.11	0	0	0	0	0	0
8/12/2024 12:57	11104	EGYP_T1	5	5	0	1	1.4	0.4	0	0	0	0	0	0	0	0
8/12/2024 12:57	29301	DAPP_T1	1	1	0	7.7	7.2	-0.5	0	0	1	1	0	600	600	0
8/12/2024 13:00	47203	FAXO_T2	0	0	0	0	0	0	-1.19	-1.19	1	1	0	1200	1200	0
8/12/2024 13:00	11102	EGYP_T1	1	1	0	0.9	0	-0.9	0.08	0.11	0	0	0	0	0	0
8/12/2024 13:00	47201	FAXO_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 13:00	24702	FLND_T2	1	4	3	0.1	1.05	0.95	0.32	0.17	1	1	0	1200	1200	0
8/12/2024 13:00	11104	EGYP_T1	5	5	0	1.4	1.42	0.02	0	0	0	0	0	0	0	0
8/12/2024 13:01	63303	GREE_T1	0	0	0	0	0	0	-0.07	-0.15	2	2	0	1800	1800	0
8/12/2024 13:01	63306	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 13:02	23203	HIRU_T2	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
8/12/2024 13:02	23202	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 13:02	23201	HIRU_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
8/12/2024 13:04	60502	NMAN_T2	0	0	0	0	0	0	0.38	0.31	0	0	0	0	0	0
8/12/2024 13:04	60504	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/12/2024 13:05	40101	HUNT_T2	29	33	4	0.33	0.8	0.47	0	0	0	0	0	0	0	0
8/12/2024 13:05	26803	JAFR_T1	0	0	0	0	0	0	0.05	0.02	1	1	0	900	900	0
8/12/2024 13:05	44202	POIN_T2	1	2	1	1	1.5	0.5	0	0	0	0	0	0	0	0
8/12/2024 13:05	44203	POIN_T2	0	0	0	0	0	0	0.06	0.09	2	2	0	2100	2100	0
8/12/2024 13:06	56501	ROCK_T2	3	2	-1	0.43	0.55	0.12	-0.75	-0.75	0	0	0	0	0	0
8/12/2024 13:06	57702	PAXT_T1	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
8/12/2024 13:06	26803	JAFR_T1	0	0	0	0	0	0	0.05	0.02	1	1	0	900	900	0
8/12/2024 13:07	40601	PIGR_T1	2	3	1	2.85	0.33	-2.52	0	0	0	0	0	0	0	0
8/12/2024 13:07	40603	PIGR_T1	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
8/12/2024 13:07	40602	PIGR_T1	1	0	-1	0.5	0	-0.5	-1.37	-1.31	1	1	0	600	600	0
8/12/2024 13:07	67002	STHI_T2	0	0	0	0	0	0	1.17	1.18	0	0	0	0	0	0
8/12/2024 13:08	40602	PIGR_T1	1	0	-1	0.5	0	-0.5	-1.37	-1.31	1	1	0	600	600	0
8/12/2024 13:08	40603	PIGR_T1	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
8/12/2024 13:08	40601	PIGR_T1	2	3	1	2.85	0.33	-2.52	0	0	0	0	0	0	0	0
8/12/2024 13:08	58101	NEKI_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/12/2024 13:08	58102	NEKI_T1	1	1	0	0.9	1.2	0.3	-1.06	-1.04	1	1	0	1200	1200	0
8/12/2024 13:11	44301	BEAV_T2	1	1	0	1	1.8	0.8	0	0	0	0	0	0	0	0
8/12/2024 13:12	67002	STHI_T2	0	0	0	0	0	0	1.17	1.18	0	0	0	0	0	0
8/12/2024 13:14	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 13:14	46203	DANV_T2	0	0	0	0	0	0	-0.28	-1.59	0	0	0	0	0	0
8/12/2024 13:14	53602	DALM_T2	0	0	0	0	0	0	-0.47	-0.47	1	1	0	600	600	0
8/12/2024 13:14	46206	DANV_T2	4	3	-1	1.13	0.35	-0.78	0	0	0	0	0	0	0	0
8/12/2024 13:14	53601	DALM_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
8/12/2024 13:15	53502	EVIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/12/2024 13:15	53501	EVIL_T2	2	2	0	0.45	0.8	0.35	-0.01	-0.01	3	3	0	1700	2100	400
8/12/2024 13:15	46803	HEPB_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
8/12/2024 13:17	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.13	2	2	0	1200	1200	0
8/12/2024 13:18	46801	HEPB_T2	0	0	0	0	0	0	1.01	1.01	0	0	0	0	0	0
8/12/2024 13:19	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.13	2	2	0	1200	1200	0
8/12/2024 13:21	51604	DUKE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/12/2024 13:22	42201	SHEN_T2	0	1	1	0	0.5	0.5	0.8	0.12	0	1	1	0	600	600
8/12/2024 13:23	13503	MCMI_T2	1	2	1	0.8	1	0.2	0.19	0.18	0	0	0	0	0	0
8/12/2024 13:24	67402	WAKE_T2	0	0	0	0	0	0	0.59	0.62	1	1	0	600	600	0
8/12/2024 13:25	16302	ALPA_T2	0	2	2	0	0.15	0.15	0.12	0.15	0	0	0	0	0	0
8/12/2024 13:25	67703	WERN_T2	1	0	-1	0.6	0	-0.6	-0.01	-0.01	1	1	0	900	900	0
8/12/2024 13:25	59101	WALK_T2	0	1	1	0	0.2	0.2	1.32	1.66	1	1	0	600	600	0
8/12/2024 13:25	67002	STHI_T2	0	0	0	0	0	0	1.18	1.17	0	0	0	0	0	0
8/12/2024 13:26	63804	HEMP_T1	1	1	0	7.4	6.9	-0.5	-1.22	-1.18	0	0	0	0	0	0
8/12/2024 13:26	16302	ALPA_T2	0	2	2	0	0.15	0.15	0.06	0.07	0	0	0	0	0	0
8/12/2024 13:29	10705	CATA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/12/2024 13:29	60902	DONG_T2	1	0	-1	0.1	0	-0.1	1.21	1.24	0	0	0	0	0	0
8/12/2024 13:29	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 13:29	10707	CATA_T2	0	0	0	0	0	0	0.73	0.8	0	0	0	0	0	0
8/12/2024 13:29	60901	DONG_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/12/2024 13:32	63401	HONY_T1	0	0	0	0	0	0	0.52	0.42	1	1	0	600	600	0
8/12/2024 13:33	63401	HONY_T1	0	0	0	0	0	0	0.52	0.42	1	1	0	600	600	0
8/12/2024 13:36	24101	EHAZ_T1	21	10	-11	1.08	0.21	-0.87	0	0	0	0	0	0	0	0
8/12/2024 13:36	21701	SUBU_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
8/12/2024 13:36	24104	EHAZ_T1	0	1	1	0	0.1	0.1	-0.61	-0.59	1	1	0	1200	1200	0
8/12/2024 13:36	21705	SUBU_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
8/12/2024 13:36	24102	EHAZ_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
8/12/2024 13:36	24105	EHAZ_T1	4	4	0	6.33	6.38	0.05	0	0	0	0	0	0	0	0
8/12/2024 13:38	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 13:39	50701	SMEC_T1	4	4	0	0.75	0.58	-0.17	-1.04	-0.81	1	1	0	900	900	0
8/12/2024 13:41	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 13:43	11903	ETEX_T1	0	0	0	0	0	0	1.01	1.03	0	0	0	0	0	0
8/12/2024 13:43	67505	WEWI_T1	0	0	0	0	0	0	0.49	0.41	1	1	0	900	900	0
8/12/2024 13:47	14802	TREI_T2	0	2	2	0	0.2	0.2	1.05	1.04	0	0	0	0	0	0
8/12/2024 13:47	14801	TREI_T2	3	2	-1	0.27	0.35	0.08	0	0	0	0	0	0	0	0
8/12/2024 13:48	63401	HONY_T1	0	0	0	0	0	0	0.42	0.54	1	1	0	600	600	0
8/12/2024 13:48	51603	DUKE_T1	0	0	0	0	0	0	0.49	0.04	0	0	0	0	0	0
8/12/2024 13:49	48302	ORWI_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
8/12/2024 13:49	63401	HONY_T1	0	0	0	0	0	0	0.42	0.54	1	1	0	600	600	0
8/12/2024 13:50	44203	POIN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 13:50	20802	LOPO_T1	0	0	0	0	0	0	-0.49	-0.47	1	1	0	600	600	0
8/12/2024 13:50	44202	POIN_T2	0	0	0	0	0	0	-0.23	-0.18	1	1	0	1200	1200	0
8/12/2024 13:51	48302	ORWI_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
8/12/2024 13:51	48303	ORWI_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
8/12/2024 13:52	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 13:53	57702	PAXT_T1	1	1	0	0.1	0.2	0.1	-0.68	0.39	0	0	0	0	0	0
8/12/2024 13:53	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 13:54	16302	ALPA_T2	2	2	0	0.15	0.15	0	0.11	0.01	0	0	0	0	0	0
8/12/2024 13:54	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 13:55	16302	ALPA_T2	2	2	0	0.15	0.15	0	0.11	0.01	0	0	0	0	0	0
8/12/2024 13:57	50506	MECH_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/12/2024 13:57	63804	HEMP_T1	1	1	0	6.9	6.3	-0.6	-1.24	-1.23	0	0	0	0	0	0
8/12/2024 13:57	16302	ALPA_T2	2	2	0	0.15	0.15	0	0.22	0.01	0	0	0	0	0	0
8/12/2024 13:57	50502	MECH_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
8/12/2024 13:58	44301	BEAV_T2	2	1	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
8/12/2024 13:59	11102	EGYP_T1	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
8/12/2024 13:59	46801	HEPB_T2	0	4	4	0	0.8	0.8	0.09	0.09	0	0	0	0	0	0
8/12/2024 13:59	11104	EGYP_T1	5	5	0	0.86	1.18	0.32	2.25	1.74	0	0	0	0	0	0
8/12/2024 14:00	14801	TREI_T2	1	3	2	0.2	0.23	0.03	0.4	0.41	0	0	0	0	0	0
8/12/2024 14:00	14802	TREI_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/12/2024 14:02	11102	EGYP_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/12/2024 14:02	46802	HEPB_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
8/12/2024 14:02	11104	EGYP_T1	5	5	0	1.62	0.46	-1.16	0	0	0	0	0	0	0	0
8/12/2024 14:02	11103	EGYP_T1	0	0	0	0	0	0	0.74	0.72	0	0	0	0	0	0
8/12/2024 14:03	63501	HEID_TBK1-2	55	55	0	2.01	1.85	-0.16	0.75	0.83	1	1	0	900	900	0
8/12/2024 14:03	12604	MACA_T1	2	0	-2	0.65	0	-0.65	1.65	1.59	0	0	0	0	0	0
8/12/2024 14:03	12601	MACA_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
8/12/2024 14:04	63401	HONY_T1	0	0	0	0	0	0	0.54	0.46	1	1	0	600	600	0
8/12/2024 14:05	44703	MUNC_T2	0	1	1	0	0.1	0.1	0.93	0.98	0	0	0	0	0	0
8/12/2024 14:10	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 14:10	67001	STHI_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
8/12/2024 14:13	61503	EPET_T1	0	0	0	0	0	0	0.02	0.05	0	0	0	0	0	0
8/12/2024 14:14	45802	HEGI_T2	32	27	-5	0.55	0.58	0.03	0.33	0.39	2	2	0	1200	1200	0
8/12/2024 14:14	59101	WALK_T2	1	3	2	2	1.1	-0.9	1.96	1.97	1	1	0	600	600	0
8/12/2024 14:16	61801	EELI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/12/2024 14:16	45802	HEGI_T2	27	4	-23	0.58	0.25	-0.33	0.33	0.39	2	2	0	1200	1200	0
8/12/2024 14:16	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 14:16	52403	GRPA_T2	2	4	2	0.7	0.6	-0.1	0.34	0.35	0	0	0	0	0	0
8/12/2024 14:16	61802	EELI_T2	0	0	0	0	0	0	0.22	0.49	0	0	0	0	0	0
8/12/2024 14:20	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 14:20	61701	ELIZ_T1	1	2	1	4	2.8	-1.2	0	0	0	0	0	0	0	0
8/12/2024 14:21	61702	ELIZ_T2	0	1	1	0	0.8	0.8	-1.32	-1.35	2	2	0	1500	1500	0
8/12/2024 14:21	42002	MNVL_T2	1	1	0	3.5	3.6	0.1	0	0	0	0	0	0	0	0
8/12/2024 14:21	21701	SUBU_T1	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
8/12/2024 14:21	21704	SUBU_T1	0	0	0	0	0	0	-2.05	-1.89	2	2	0	2400	2400	0
8/12/2024 14:21	21705	SUBU_T1	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
8/12/2024 14:21	42001	MNVL_T2	4	25	21	0.43	0.3	-0.13	0.12	0.14	0	0	0	0	0	0
8/12/2024 14:22	65603	QVIL_T2	0	0	0	0	0	0	-0.02	0.03	0	0	0	0	0	0
8/12/2024 14:22	12601	MACA_T1	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/12/2024 14:22	12604	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 14:23	47401	PENS_T1	1	0	-1	0.1	0	-0.1	3.08	3.18	0	0	0	0	0	0
8/12/2024 14:23	47402	PENS_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/12/2024 14:23	22901	HARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/12/2024 14:23	47403	PENS_T1	4	3	-1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
8/12/2024 14:23	22904	HARW_T1	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
8/12/2024 14:25	47403	PENS_T1	4	3	-1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
8/12/2024 14:25	47402	PENS_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/12/2024 14:25	47401	PENS_T1	1	0	-1	0.1	0	-0.1	1.54	1.59	0	0	0	0	0	0
8/12/2024 14:25	21504	CEAV_T1	0	0	0	0	0	0	-0.5	-0.42	1	1	0	1200	1200	0
8/12/2024 14:30	47203	FAXO_T2	0	0	0	0	0	0	-1.11	-1.13	1	1	0	1200	1200	0
8/12/2024 14:31	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 14:31	61801	EELI_T2	1	1	0	0.3	0.4	0.1	-0.11	-0.08	1	1	0	600	600	0
8/12/2024 14:31	61803	EELI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/12/2024 14:31	52403	GRPA_T2	1	5	4	0.6	0.6	0	0.35	0.37	0	0	0	0	0	0
8/12/2024 14:32	47001	HUGH_T2	3	4	1	7.43	5.8	-1.63	0	0	0	0	0	0	0	0
8/12/2024 14:32	47002	HUGH_T2	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
8/12/2024 14:34	54201	PENN_T1	3	6	3	1.03	1.43	0.4	-0.41	-0.41	0	0	0	0	0	0
8/12/2024 14:34	54203	PENN_T1	5	11	6	0.56	0.39	-0.17	0	0	0	0	0	0	0	0
8/12/2024 14:35	52403	GRPA_T2	1	5	4	0.6	0.6	0	0.35	0.37	0	0	0	0	0	0
8/12/2024 14:35	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 14:39	67605	WARW_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/12/2024 14:39	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 14:40	47403	PENS_T1	1	5	4	0.9	0.66	-0.24	0	0	0	0	0	0	0	0
8/12/2024 14:40	47401	PENS_T1	0	0	0	0	0	0	1.59	1.55	0	0	0	0	0	0
8/12/2024 14:41	45402	WBLO_T2	2	3	1	0.85	0.47	-0.38	-0.22	-0.19	0	0	0	0	0	0
8/12/2024 14:42	55102	WERT_T2	0	0	0	0	0	0	-1.39	-1.45	2	2	0	1200	1200	0
8/12/2024 14:43	45501	DERR_T2	1	1	0	0.2	0.3	0.1	0.67	0.89	2	2	0	1800	1800	0
8/12/2024 14:46	41502	FAIR_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
8/12/2024 14:46	45802	HEGI_T2	4	27	23	0.25	0.53	0.28	0.42	0.38	2	2	0	1200	1200	0
8/12/2024 14:47	44802	EDAN_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
8/12/2024 14:47	44801	EDAN_T2	17	22	5	0.58	0.44	-0.14	0	0	0	0	0	0	0	0
8/12/2024 14:48	45802	HEGI_T2	4	27	23	0.25	0.53	0.28	0.42	0.38	2	2	0	1200	1200	0
8/12/2024 14:49	65401	MARI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 14:49	65402	MARI_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/12/2024 14:49	40101	HUNT_T2	2	6	4	0.75	0.67	-0.08	-0.13	-0.18	0	0	0	0	0	0
8/12/2024 14:53	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 14:57	17401	FOHI_T1	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
8/12/2024 14:57	52202	DEVO_T2	0	0	0	0	0	0	-0.86	-0.83	0	0	0	0	0	0
8/12/2024 14:57	52204	DEVO_T2	5	6	1	0.6	1.07	0.47	0	0	0	0	0	0	0	0
8/12/2024 14:58	52204	DEVO_T2	5	6	1	0.6	1.07	0.47	0	0	0	0	0	0	0	0
8/12/2024 14:58	46903	MNTG_T2	4	7	3	0.58	0.61	0.03	0	0	0	0	0	0	0	0
8/12/2024 14:58	46901	MNTG_T2	0	0	0	0	0	0	0.6	0.66	1	1	0	1200	1200	0
8/12/2024 14:58	52202	DEVO_T2	0	0	0	0	0	0	-0.86	-0.83	0	0	0	0	0	0
8/12/2024 14:59	52202	DEVO_T2	0	0	0	0	0	0	-0.86	-0.83	0	0	0	0	0	0
8/12/2024 14:59	14205	EALL_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
8/12/2024 14:59	52204	DEVO_T2	5	6	1	0.6	1.07	0.47	0	0	0	0	0	0	0	0
8/12/2024 15:00	52202	DEVO_T2	0	0	0	0	0	0	-0.86	-0.83	0	0	0	0	0	0
8/12/2024 15:00	52204	DEVO_T2	6	6	0	1.07	1	-0.07	0	0	0	0	0	0	0	0
8/12/2024 15:01	46903	MNTG_T2	7	5	-2	0.6	0.66	0.06	0.34	0.38	1	1	0	600	600	0
8/12/2024 15:03	42903	MIDD_T2	0	2	2	0	0.35	0.35	0.66	0.89	1	1	0	1200	1200	0
8/12/2024 15:03	42902	MIDD_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/12/2024 15:03	44802	EDAN_T2	0	0	0	0	0	0	-0.32	-0.3	0	0	0	0	0	0
8/12/2024 15:03	44801	EDAN_T2	22	16	-6	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
8/12/2024 15:06	43801	SWIL_T1	1	2	1	5.5	3.05	-2.45	0	0	0	0	0	0	0	0
8/12/2024 15:06	65205	PRIN_T1	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
8/12/2024 15:06	65202	PRIN_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
8/12/2024 15:06	43802	SWIL_T1	0	1	1	0	0	0	0.28	0.28	1	1	0	600	600	0
8/12/2024 15:06	47502	NECO_T1	1	3	2	0.2	0.3	0.1	1.05	1.04	0	0	0	0	0	0
8/12/2024 15:07	61703	ELIZ_T1	0	0	0	0	0	0	-1.37	-1.29	1	1	0	900	900	0
8/12/2024 15:07	43802	SWIL_T1	0	1	1	0	0	0	0.57	0.53	2	2	0	1200	1200	0
8/12/2024 15:07	61701	ELIZ_T1	2	2	0	2.6	2.6	0	0	0	0	0	0	0	0	0
8/12/2024 15:07	43801	SWIL_T1	1	2	1	5.5	3.05	-2.45	0	0	0	0	0	0	0	0
8/12/2024 15:11	43802	SWIL_T1	0	1	1	0	0	0	0.28	0.27	1	1	0	600	600	0
8/12/2024 15:11	43801	SWIL_T1	1	2	1	5.5	3.05	-2.45	0	0	0	0	0	0	0	0
8/12/2024 15:13	61302	EARL_T1	0	0	0	0	0	0	0.24	0.25	3	3	0	2700	2700	0
8/12/2024 15:19	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 15:19	52402	GRPA_T2	2	3	1	0.1	0.17	0.07	0	0	0	0	0	0	0	0
8/12/2024 15:19	16201	POFA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 15:19	52403	GRPA_T2	2	3	1	0.85	0.55	-0.3	0.38	0.35	0	0	0	0	0	0
8/12/2024 15:19	16203	POFA_T2	7	2	-5	0.37	0.4	0.03	0	0	0	0	0	0	0	0
8/12/2024 15:22	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 15:22	64101	REFR_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
8/12/2024 15:23	64902	MILL_T2	0	0	0	0	0	0	-0.73	-0.73	1	1	0	900	900	0
8/12/2024 15:23	64101	REFR_T1	0	0	0	0	0	0	1.67	1.64	0	0	0	0	0	0
8/12/2024 15:24	14502	SOHO_T1	1	1	0	1.8	1.9	0.1	0.9	0.94	0	0	0	0	0	0
8/12/2024 15:24	16302	ALPA_T2	1	1	0	0.1	0.1	0	0.04	0.15	0	0	0	0	0	0
8/12/2024 15:24	64101	REFR_T1	0	0	0	0	0	0	1.25	1.23	0	0	0	0	0	0
8/12/2024 15:25	64101	REFR_T1	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
8/12/2024 15:26	52202	DEVO_T2	0	0	0	0	0	0	-0.81	-0.85	0	0	0	0	0	0
8/12/2024 15:26	52204	DEVO_T2	6	6	0	1.17	0.74	-0.43	0	0	0	0	0	0	0	0
8/12/2024 15:28	52204	DEVO_T2	6	6	0	1.17	0.74	-0.43	0	0	0	0	0	0	0	0
8/12/2024 15:28	52202	DEVO_T2	0	0	0	0	0	0	-0.81	-0.85	0	0	0	0	0	0
8/12/2024 15:29	52202	DEVO_T2	0	0	0	0	0	0	-0.81	-0.85	0	0	0	0	0	0
8/12/2024 15:29	55101	WERT_T1	0	0	0	0	0	0	-1.66	-1.63	4	4	0	3300	3300	0
8/12/2024 15:29	45801	HEGI_T1	0	0	0	0	0	0	0.22	0.21	1	1	0	900	900	0
8/12/2024 15:29	52204	DEVO_T2	6	6	0	1.17	0.74	-0.43	0	0	0	0	0	0	0	0
8/12/2024 15:30	52202	DEVO_T2	0	0	0	0	0	0	-0.81	-0.85	0	0	0	0	0	0
8/12/2024 15:30	52204	DEVO_T2	6	5	-1	1	0.6	-0.4	0	0	0	0	0	0	0	0
8/12/2024 15:31	47101	MARL_T1	0	0	0	0	0	0	-0.48	-0.45	0	0	0	0	0	0
8/12/2024 15:32	64605	LEOL_T1	0	0	0	0	0	0	0.55	0.62	1	1	0	300	300	0
8/12/2024 15:32	47101	MARL_T1	0	0	0	0	0	0	-0.48	-0.45	0	0	0	0	0	0
8/12/2024 15:33	47101	MARL_T1	0	0	0	0	0	0	-0.48	-0.45	0	0	0	0	0	0
8/12/2024 15:34	47104	MARL_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
8/12/2024 15:35	47101	MARL_T1	0	0	0	0	0	0	-0.48	-0.45	0	0	0	0	0	0
8/12/2024 15:36	16605	PONO_T1	0	0	0	0	0	0	-1.11	-1.1	2	2	0	2400	2400	0
8/12/2024 15:37	56501	ROCK_T2	1	1	0	0.2	0.6	0.4	-0.53	-0.54	0	0	0	0	0	0
8/12/2024 15:38	59202	THOM_T1	4	8	4	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
8/12/2024 15:40	55101	WERT_T1	0	0	0	0	0	0	-3.27	-3.1	8	8	0	6600	6600	0
8/12/2024 15:40	42802	SELI_T1	0	0	0	0	0	0	-0.51	-0.33	0	0	0	0	0	0
8/12/2024 15:41	56501	ROCK_T2	1	1	0	0.2	0.6	0.4	-0.53	-0.54	0	0	0	0	0	0
8/12/2024 15:41	55101	WERT_T1	0	0	0	0	0	0	-1.63	-1.55	4	4	0	3300	3300	0
8/12/2024 15:42	59202	THOM_T1	4	8	4	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
8/12/2024 15:43	55101	WERT_T1	0	0	0	0	0	0	-4.9	-4.65	12	12	0	9900	9900	0
8/12/2024 15:43	40801	EXCH_T2	0	0	0	0	0	0	0.01	0.01	1	1	0	1200	1200	0
8/12/2024 15:43	42802	SELI_T1	0	0	0	0	0	0	-0.51	-0.33	0	0	0	0	0	0
8/12/2024 15:43	40802	EXCH_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
8/12/2024 15:43	61501	EPET_T2	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
8/12/2024 15:43	61506	EPET_T2	0	0	0	0	0	0	-0.11	-0.15	1	1	0	900	900	0
8/12/2024 15:44	42802	SELI_T1	0	0	0	0	0	0	-0.51	-0.33	0	0	0	0	0	0
8/12/2024 15:45	40802	EXCH_T2	1	1	0	0.8	0.8	0	-0.75	-0.76	0	0	0	0	0	0
8/12/2024 15:45	44802	EDAN_T2	0	0	0	0	0	0	-0.28	-0.23	0	0	0	0	0	0
8/12/2024 15:45	62102	ELAN_T1	0	0	0	0	0	0	1.45	1.55	0	0	0	0	0	0
8/12/2024 15:45	44801	EDAN_T2	20	21	1	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
8/12/2024 15:47	40802	EXCH_T2	1	1	0	0.8	0.8	0	-0.75	-0.76	0	0	0	0	0	0
8/12/2024 15:48	40802	EXCH_T2	1	1	0	0.8	0.8	0	-0.75	-0.76	0	0	0	0	0	0
8/12/2024 15:49	40901	JESH_T1	1	1	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
8/12/2024 15:49	15203	SFAR_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/12/2024 15:49	40902	JESH_T1	0	1	1	0	0.6	0.6	-2.28	-1.69	4	2	-2	2400	1200	-1200
8/12/2024 15:50	13501	MCMI_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
8/12/2024 15:50	13502	MCMI_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
8/12/2024 15:56	67103	SPIE_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
8/12/2024 15:57	45501	DERR_T2	1	1	0	0.3	0.2	-0.1	0.74	0.71	2	2	0	1800	1800	0
8/12/2024 15:59	45501	DERR_T2	1	1	0	0.3	0.2	-0.1	0.74	0.71	2	2	0	1800	1800	0
8/12/2024 16:01	11904	ETEX_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
8/12/2024 16:02	40801	EXCH_T2	0	0	0	0	0	0	0.01	-0.01	1	1	0	1200	1200	0
8/12/2024 16:02	40802	EXCH_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
8/12/2024 16:03	20601	GRWO_T2	17	28	11	0.64	0.78	0.14	0	0	0	0	0	0	0	0
8/12/2024 16:03	20603	GRWO_T2	0	1	1	0	0.1	0.1	-0.39	-0.36	1	1	0	900	900	0
8/12/2024 16:05	64101	REFR_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
8/12/2024 16:06	13502	MCMI_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
8/12/2024 16:06	65004	NEFF_T2	0	0	0	0	0	0	-0.5	-0.5	1	1	0	600	600	0
8/12/2024 16:06	13501	MCMI_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
8/12/2024 16:06	64101	REFR_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
8/12/2024 16:09	43802	SWIL_T1	0	0	0	0	0	0	0.32	0.32	1	1	0	600	600	0
8/12/2024 16:09	43801	SWIL_T1	3	4	1	2.3	1.73	-0.57	0	0	0	0	0	0	0	0
8/12/2024 16:09	63403	HONY_T2	0	0	0	0	0	0	-1.96	-1.92	1	1	0	600	600	0
8/12/2024 16:10	42802	SELI_T1	0	0	0	0	0	0	-0.43	-0.52	0	0	0	0	0	0
8/12/2024 16:10	40601	PIGR_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/12/2024 16:10	60701	BREC_T1	0	2	2	0	0.1	0.1	-0.44	-0.49	2	2	0	1200	1200	0
8/12/2024 16:10	40602	PIGR_T1	1	1	0	0.2	0.5	0.3	-0.63	-0.55	1	1	0	600	600	0
8/12/2024 16:11	60701	BREC_T1	0	2	2	0	0.1	0.1	-0.44	-0.49	2	2	0	1200	1200	0
8/12/2024 16:13	60701	BREC_T1	0	2	2	0	0.1	0.1	-0.44	-0.49	2	2	0	1200	1200	0
8/12/2024 16:14	25601	ARRO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 16:14	25603	ARRO_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
8/12/2024 16:16	63501	HEID_TBK1-2	55	55	0	2.46	2.55	0.09	0.26	0.25	1	1	0	900	900	0
8/12/2024 16:16	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 16:16	14601	SWHI_T1	0	0	0	0	0	0	-0.5	-0.48	0	0	0	0	0	0
8/12/2024 16:17	12802	MICK_T1	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/12/2024 16:17	12801	MICK_T1	0	0	0	0	0	0	-0.44	-0.42	1	1	0	600	600	0
8/12/2024 16:17	12807	MICK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 16:18	51002	NHAR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 16:18	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 16:18	66302	MCGO_T2	0	0	0	0	0	0	-1.08	-1.07	1	1	0	600	600	0
8/12/2024 16:18	50505	MECH_T1	0	0	0	0	0	0	-1.67	-1.63	0	0	0	0	0	0
8/12/2024 16:18	53803	MBRG_T2	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
8/12/2024 16:18	12803	MICK_T1	0	0	0	0	0	0	1.16	1.14	0	0	0	0	0	0
8/12/2024 16:18	51004	NHAR_T1	1	1	0	7	7	0	0	0	0	0	0	0	0	0
8/12/2024 16:18	20601	GRWO_T2	13	68	55	0.78	0.51	-0.27	0	0	0	0	0	0	0	0
8/12/2024 16:18	20603	GRWO_T2	1	0	-1	0.1	0	-0.1	-0.36	-0.39	1	1	0	900	900	0
8/12/2024 16:18	12802	MICK_T1	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
8/12/2024 16:18	13001	NBET_T2	0	0	0	0	0	0	-0.15	-0.13	1	1	0	1200	1200	0
8/12/2024 16:18	50502	MECH_T1	1	1	0	0.6	0.7	0.1	-0.06	-0.08	2	2	0	2100	2100	0
8/12/2024 16:18	50506	MECH_T1	0	0	0	0	0	0	0.18	0.22	1	1	0	900	900	0
8/12/2024 16:18	14601	SWHI_T1	0	0	0	0	0	0	-1	-0.95	0	0	0	0	0	0
8/12/2024 16:18	12807	MICK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 16:18	53802	MBRG_T2	0	0	0	0	0	0	1.93	1.81	0	0	0	0	0	0
8/12/2024 16:19	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 16:19	57502	LAWN_T3	0	0	0	0	0	0	-0.03	-0.09	0	0	0	0	0	0
8/12/2024 16:19	53802	MBRG_T2	0	0	0	0	0	0	1.93	1.81	0	0	0	0	0	0
8/12/2024 16:19	44201	POIN_T1	0	0	0	0	0	0	-1.45	-1.43	2	2	0	2100	2100	0
8/12/2024 16:19	27302	PARR_T1	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
8/12/2024 16:19	50502	MECH_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/12/2024 16:19	14603	SWHI_T1	0	0	0	0	0	0	2.05	2.09	2	2	0	1200	1200	0
8/12/2024 16:19	25402	LAHA_T2	0	0	0	0	0	0	-0.38	-0.62	0	0	0	0	0	0
8/12/2024 16:19	14601	SWHI_T1	0	0	0	0	0	0	-0.5	-0.48	0	0	0	0	0	0
8/12/2024 16:19	57501	LAWN_T3	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
8/12/2024 16:19	54206	PENN_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
8/12/2024 16:20	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 16:20	57501	LAWN_T3	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
8/12/2024 16:20	14604	SWHI_T1	0	0	0	0	0	0	-0.83	-0.81	2	2	0	2100	2100	0
8/12/2024 16:20	44703	MUNC_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/12/2024 16:20	51004	NHAR_T1	1	1	0	7	7	0	-0.65	-0.6	0	0	0	0	0	0
8/12/2024 16:20	44702	MUNC_T2	1	5	4	0.1	0.16	0.06	0	0	0	0	0	0	0	0
8/12/2024 16:20	51702	OBER_T1	2	2	0	2.2	1.8	-0.4	-0.26	-0.25	2	2	0	1200	1200	0
8/12/2024 16:20	13503	MCMI_T2	1	1	0	0.7	0.4	-0.3	0.17	0.2	0	0	0	0	0	0
8/12/2024 16:20	14603	SWHI_T1	0	0	0	0	0	0	1.03	1.04	1	1	0	600	600	0
8/12/2024 16:20	44201	POIN_T1	0	0	0	0	0	0	-4.34	-4.3	6	6	0	6300	6300	0
8/12/2024 16:20	44701	MUNC_T2	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
8/12/2024 16:20	65802	RTWN_T2	0	0	0	0	0	0	0.71	0.73	0	0	0	0	0	0
8/12/2024 16:20	51002	NHAR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 16:20	65302	NBRI_T2	0	0	0	0	0	0	-0.55	-0.54	1	1	0	600	600	0
8/12/2024 16:21	51702	OBER_T1	2	2	0	2.2	1.8	-0.4	-0.39	-0.38	3	3	0	1800	1800	0
8/12/2024 16:21	48301	ORWI_T1	2	2	0	3.75	3.6	-0.15	-0.13	-0.12	1	1	0	900	900	0
8/12/2024 16:21	14601	SWHI_T1	0	0	0	0	0	0	-0.95	-0.87	0	0	0	0	0	0
8/12/2024 16:21	57502	LAWN_T3	0	0	0	0	0	0	-0.1	-0.26	0	0	0	0	0	0
8/12/2024 16:21	51704	OBER_T1	0	0	0	0	0	0	-2.45	-2.38	2	2	0	2400	2400	0
8/12/2024 16:21	53803	MBRG_T2	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
8/12/2024 16:21	48602	POCA_T1	0	0	0	0	0	0	0.04	0.19	1	1	0	1200	1200	0
8/12/2024 16:21	27302	PARR_T1	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
8/12/2024 16:21	12606	MACA_T1	0	5	5	0	0	0	0.3	0.3	1	1	0	900	900	0
8/12/2024 16:21	12801	MICK_T1	0	0	0	0	0	0	-0.42	-0.44	1	1	0	600	600	0
8/12/2024 16:21	12807	MICK_T1	1	0	-1	0.1	0	-0.1	-0.48	-0.5	0	0	0	0	0	0
8/12/2024 16:21	65001	NEFF_T2	0	0	0	0	0	0	0.08	0.03	1	1	0	1200	1200	0
8/12/2024 16:21	51004	NHAR_T1	1	1	0	7	7	0	-0.65	-0.6	0	0	0	0	0	0
8/12/2024 16:21	57501	LAWN_T3	0	0	0	0	0	0	-0.01	-0.07	0	0	0	0	0	0
8/12/2024 16:21	64101	REFR_T1	0	0	0	0	0	0	0.79	1.01	0	0	0	0	0	0
8/12/2024 16:21	54206	PENN_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
8/12/2024 16:21	13002	NBET_T2	0	0	0	0	0	0	-0.98	-1.01	2	2	0	2400	2400	0
8/12/2024 16:21	65302	NBRI_T2	0	0	0	0	0	0	-0.55	-0.54	1	1	0	600	600	0
8/12/2024 16:21	51002	NHAR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 16:21	14605	SWHI_T1	0	1	1	0	0	0	0	0	1	1	0	1200	1200	0
8/12/2024 16:21	53802	MBRG_T2	0	0	0	0	0	0	0.97	0.91	0	0	0	0	0	0
8/12/2024 16:21	12601	MACA_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/12/2024 16:21	65802	RTWN_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
8/12/2024 16:22	65003	NEFF_T2	0	0	0	0	0	0	-1.25	-1.27	2	2	0	1800	1800	0
8/12/2024 16:22	50506	MECH_T1	0	0	0	0	0	0	0.22	0.14	1	1	0	900	900	0
8/12/2024 16:22	66504	SMAN_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
8/12/2024 16:22	53802	MBRG_T2	0	0	0	0	0	0	0.91	0.09	0	0	0	0	0	0
8/12/2024 16:22	14601	SWHI_T1	0	0	0	0	0	0	-0.48	-0.43	0	0	0	0	0	0
8/12/2024 16:22	64101	REFR_T1	0	0	0	0	0	0	1.01	0.91	0	0	0	0	0	0
8/12/2024 16:22	51704	OBER_T1	0	0	0	0	0	0	-1.19	-1.19	1	1	0	1200	1200	0
8/12/2024 16:22	24202	PROV_T4	0	1	1	0	1.2	1.2	-0.18	-0.21	1	1	0	1200	1200	0
8/12/2024 16:22	27302	PARR_T1	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
8/12/2024 16:22	51004	NHAR_T1	1	1	0	7	7	0	-0.6	-0.59	0	0	0	0	0	0
8/12/2024 16:22	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/12/2024 16:22	14602	SWHI_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
8/12/2024 16:22	13001	NBET_T2	0	0	0	0	0	0	-0.13	-0.16	1	1	0	1200	1200	0
8/12/2024 16:22	50502	MECH_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/12/2024 16:22	14603	SWHI_T1	0	0	0	0	0	0	1.04	1.05	1	1	0	600	600	0
8/12/2024 16:22	48601	POCA_T1	0	0	0	0	0	0	-1.3	-1.42	1	1	0	1200	1200	0
8/12/2024 16:22	67103	SPRI_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
8/12/2024 16:22	44201	POIN_T1	0	0	0	0	0	0	-1.43	-1.53	2	2	0	2100	2100	0
8/12/2024 16:22	51002	NHAR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 16:22	11504	FREE_T1	0	0	0	0	0	0	-1.69	-1.81	2	2	0	2100	2100	0
8/12/2024 16:22	51702	OBER_T1	2	2	0	2.2	1.8	-0.4	-0.25	-0.25	2	2	0	1200	1200	0
8/12/2024 16:22	57502	LAWN_T3	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
8/12/2024 16:22	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 16:22	65001	NEFF_T2	0	0	0	0	0	0	0.06	0.04	2	2	0	2400	2400	0
8/12/2024 16:23	24201	PROV_T3	3	3	0	3.57	3.17	-0.4	-0.91	-0.9	1	1	0	1200	1200	0
8/12/2024 16:23	64101	REFR_T1	0	0	0	0	0	0	0.5	0.46	0	0	0	0	0	0
8/12/2024 16:23	26302	OLFO_T2	0	0	0	0	0	0	-0.36	-0.35	2	2	0	1500	1500	0
8/12/2024 16:23	57501	LAWN_T3	0	0	0	0	0	0	-0.03	-0.07	0	0	0	0	0	0
8/12/2024 16:23	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 16:23	24204	PROV_T3	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
8/12/2024 16:23	40502	CRES_T2	1	0	-1	0.1	0	-0.1	-1.48	-1.41	0	0	0	0	0	0
8/12/2024 16:23	44201	POIN_T1	0	0	0	0	0	0	-2.86	-3.06	4	4	0	4200	4200	0
8/12/2024 16:23	48602	POCA_T1	0	0	0	0	0	0	0.19	0.23	1	1	0	1200	1200	0
8/12/2024 16:23	65802	RTWN_T2	0	0	0	0	0	0	0.37	0.46	0	0	0	0	0	0
8/12/2024 16:23	27604	PIRI_T1	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
8/12/2024 16:23	51702	OBER_T1	2	2	0	2.2	1.8	-0.4	-0.13	-0.12	1	1	0	600	600	0
8/12/2024 16:23	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/12/2024 16:23	48301	ORWI_T1	2	2	0	3.75	3.6	-0.15	-0.23	-0.25	2	2	0	1800	1800	0
8/12/2024 16:23	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 16:23	14601	SWHI_T1	0	0	0	0	0	0	-0.48	-0.43	0	0	0	0	0	0
8/12/2024 16:24	24201	PROV_T3	3	3	0	3.57	3.17	-0.4	-0.91	-0.9	1	1	0	1200	1200	0
8/12/2024 16:24	66504	SMAN_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
8/12/2024 16:24	24204	PROV_T3	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
8/12/2024 16:24	48602	POCA_T1	0	0	0	0	0	0	0.37	0.45	2	2	0	2400	2400	0
8/12/2024 16:24	63801	HEMP_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/12/2024 16:24	51704	OBER_T1	0	0	0	0	0	0	-1.19	-1.19	1	1	0	1200	1200	0
8/12/2024 16:24	51702	OBER_T1	2	2	0	2.2	1.8	-0.4	0	0	0	0	0	0	0	0
8/12/2024 16:24	65207	PRIN_T4	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/12/2024 16:24	60502	NMAN_T2	0	0	0	0	0	0	0.4	0.45	0	0	0	0	0	0
8/12/2024 16:24	66505	SMAN_T2	0	0	0	0	0	0	0.16	0.13	4	4	0	2300	2300	0
8/12/2024 16:24	63804	HEMP_T1	1	1	0	6.2	6.3	0.1	-0.89	-0.93	0	0	0	0	0	0
8/12/2024 16:25	51702	OBER_T1	2	2	0	2.2	1.8	-0.4	-0.13	-0.12	1	1	0	600	600	0
8/12/2024 16:25	65802	RTWN_T2	0	0	0	0	0	0	0.73	0.92	0	0	0	0	0	0
8/12/2024 16:25	22901	HARW_T1	1	0	-1	0.2	0	-0.2	-0.01	-0.13	1	1	0	1200	1200	0
8/12/2024 16:25	12807	MICK_T1	1	0	-1	0.1	0	-0.1	-0.48	-0.5	0	0	0	0	0	0
8/12/2024 16:25	44201	POIN_T1	0	0	0	0	0	0	-2.86	-3.06	4	4	0	4200	4200	0
8/12/2024 16:25	66505	SMAN_T2	0	0	0	0	0	0	0.16	0.13	4	4	0	2300	2300	0
8/12/2024 16:25	66504	SMAN_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
8/12/2024 16:25	48602	POCA_T1	0	0	0	0	0	0	0.19	0.23	1	1	0	1200	1200	0
8/12/2024 16:26	66505	SMAN_T2	0	0	0	0	0	0	0.32	0.27	8	8	0	4600	4600	0
8/12/2024 16:26	64101	REFR_T1	0	0	0	0	0	0	1.01	0.91	0	0	0	0	0	0
8/12/2024 16:26	46206	DANV_T2	2	2	0	0.85	1.7	0.85	1.82	1.8	2	2	0	2100	2100	0
8/12/2024 16:26	10705	CATA_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/12/2024 16:26	10702	CATA_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
8/12/2024 16:26	46203	DANV_T2	0	0	0	0	0	0	-0.15	-0.06	0	0	0	0	0	0
8/12/2024 16:26	66504	SMAN_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
8/12/2024 16:27	41301	FISH_T1	3	3	0	1.47	1.23	-0.24	0	0	0	0	0	0	0	0
8/12/2024 16:27	53102	WTWN_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
8/12/2024 16:27	46206	DANV_T2	2	2	0	0.85	1.7	0.85	0	0	0	0	0	0	0	0
8/12/2024 16:27	10705	CATA_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/12/2024 16:27	46203	DANV_T2	0	0	0	0	0	0	-0.15	-0.06	0	0	0	0	0	0
8/12/2024 16:27	10702	CATA_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
8/12/2024 16:28	51702	OBER_T1	2	2	0	2.2	1.8	-0.4	-0.13	-0.12	1	1	0	600	600	0
8/12/2024 16:28	46206	DANV_T2	2	2	0	0.85	1.7	0.85	1.82	1.8	2	2	0	2100	2100	0
8/12/2024 16:28	46203	DANV_T2	0	0	0	0	0	0	-0.15	-0.06	0	0	0	0	0	0
8/12/2024 16:28	53102	WTWN_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
8/12/2024 16:29	61501	EPET_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
8/12/2024 16:29	24702	FLND_T2	4	3	-1	0.53	0.47	-0.06	0.3	0.32	1	1	0	1200	1200	0
8/12/2024 16:30	41304	FISH_T2	1	1	0	0	0	0	-0.68	-0.51	0	0	0	0	0	0
8/12/2024 16:30	41301	FISH_T1	3	3	0	1.17	1.07	-0.1	0.11	0.1	0	0	0	0	0	0
8/12/2024 16:30	61301	EARL_T1	0	0	0	0	0	0	-0.96	-0.97	2	2	0	1800	1800	0
8/12/2024 16:30	61501	EPET_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
8/12/2024 16:30	46206	DANV_T2	1	3	2	1.7	1.25	-0.45	1.82	1.8	2	2	0	2100	2100	0
8/12/2024 16:30	41302	FISH_T2	12	0	-12	0.62	0	-0.62	0	0	0	0	0	0	0	0
8/12/2024 16:30	50502	MECH_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
8/12/2024 16:30	46203	DANV_T2	0	0	0	0	0	0	-0.15	-0.06	0	0	0	0	0	0
8/12/2024 16:30	50505	MECH_T1	0	0	0	0	0	0	-1.63	-1.65	0	0	0	0	0	0
8/12/2024 16:31	62102	ELAN_T1	0	0	0	0	0	0	1.64	1.55	0	0	0	0	0	0
8/12/2024 16:31	61301	EARL_T1	0	0	0	0	0	0	-0.96	-0.97	2	2	0	1800	1800	0
8/12/2024 16:31	46002	BERW_T2	0	0	0	0	0	0	-1.07	-1.18	1	1	0	900	900	0
8/12/2024 16:31	11102	EGYP_T1	1	3	2	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/12/2024 16:31	41302	FISH_T2	12	0	-12	0.62	0	-0.62	0	0	0	0	0	0	0	0
8/12/2024 16:31	41304	FISH_T2	1	1	0	0	0	0	-0.34	-0.26	0	0	0	0	0	0
8/12/2024 16:31	51904	COPA_T1	0	3	3	0	0.67	0.67	0	0	0	0	0	0	0	0
8/12/2024 16:31	51906	COPA_T1	0	0	0	0	0	0	-1.33	-1.29	2	2	0	1500	1500	0
8/12/2024 16:31	11104	EGYP_T1	5	8	3	1.4	0.75	-0.65	0.84	0.83	0	0	0	0	0	0
8/12/2024 16:31	46004	BERW_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/12/2024 16:32	65205	PRIN_T1	1	1	0	1	1.6	0.6	0	0	0	0	0	0	0	0
8/12/2024 16:32	46206	DANV_T2	1	3	2	1.7	1.25	-0.45	1.82	1.8	2	2	0	2100	2100	0
8/12/2024 16:32	41302	FISH_T2	12	0	-12	0.62	0	-0.62	0	0	0	0	0	0	0	0
8/12/2024 16:32	41304	FISH_T2	1	1	0	0	0	0	-0.34	-0.26	0	0	0	0	0	0
8/12/2024 16:32	11104	EGYP_T1	5	8	3	1.4	0.75	-0.65	0.84	0.83	0	0	0	0	0	0
8/12/2024 16:32	20802	LOPO_T1	0	0	0	0	0	0	-0.47	-0.46	1	1	0	600	600	0
8/12/2024 16:32	11102	EGYP_T1	1	3	2	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/12/2024 16:33	51904	COPA_T1	0	3	3	0	0.67	0.67	0	0	0	0	0	0	0	0
8/12/2024 16:33	51906	COPA_T1	0	0	0	0	0	0	-1.33	-1.29	2	2	0	1500	1500	0
8/12/2024 16:34	46002	BERW_T2	0	0	0	0	0	0	-1.07	-1.18	1	1	0	900	900	0
8/12/2024 16:34	46004	BERW_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/12/2024 16:37	64101	REFR_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
8/12/2024 16:38	64101	REFR_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
8/12/2024 16:39	64101	REFR_T1	0	0	0	0	0	0	0.91	0.9	0	0	0	0	0	0
8/12/2024 16:39	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/12/2024 16:41	46206	DANV_T2	1	3	2	1.7	1.25	-0.45	0	0	0	0	0	0	0	0
8/12/2024 16:41	46203	DANV_T2	0	0	0	0	0	0	-0.06	-0.11	0	0	0	0	0	0
8/12/2024 16:41	64101	REFR_T1	0	0	0	0	0	0	0.91	0.9	0	0	0	0	0	0
8/12/2024 16:42	64101	REFR_T1	0	0	0	0	0	0	1.37	1.35	0	0	0	0	0	0
8/12/2024 16:43	46203	DANV_T2	0	0	0	0	0	0	-0.06	-0.11	0	0	0	0	0	0
8/12/2024 16:43	42701	AUGU_T1	1	0	-1	0.6	0	-0.6	0	0	2	2	0	1800	1800	0
8/12/2024 16:43	46206	DANV_T2	1	3	2	1.7	1.25	-0.45	0	0	0	0	0	0	0	0
8/12/2024 16:45	46203	DANV_T2	0	0	0	0	0	0	-0.06	-0.11	0	0	0	0	0	0
8/12/2024 16:45	46206	DANV_T2	2	3	1	1.25	1.25	0	0	0	0	0	0	0	0	0
8/12/2024 16:48	46102	MACI_T1	0	0	0	0	0	0	0.9	0.94	0	0	0	0	0	0
8/12/2024 16:49	64101	REFR_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
8/12/2024 16:50	65503	MOJO_T2	0	0	0	0	0	0	-0.33	-0.34	1	1	0	900	900	0
8/12/2024 16:51	47401	PENS_T1	1	1	0	0.2	0.4	0.2	1.61	0.31	0	0	0	0	0	0
8/12/2024 16:51	14605	SWHI_T1	1	0	-1	0.3	0	-0.3	0	0	1	1	0	1200	1200	0
8/12/2024 16:51	47403	PENS_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
8/12/2024 16:52	47401	PENS_T1	1	1	0	0.2	0.4	0.2	0.31	0.38	0	0	0	0	0	0
8/12/2024 16:52	47403	PENS_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
8/12/2024 16:54	66504	SMAN_T2	2	7	5	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
8/12/2024 16:54	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 16:55	47403	PENS_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
8/12/2024 16:55	47401	PENS_T1	1	1	0	0.2	0.4	0.2	0.31	0.38	0	0	0	0	0	0
8/12/2024 16:56	47403	PENS_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
8/12/2024 16:56	47401	PENS_T1	1	1	0	0.2	0.4	0.2	0.31	0.38	0	0	0	0	0	0
8/12/2024 16:58	11103	EGYP_T1	0	0	0	0	0	0	0.74	0.71	0	0	0	0	0	0
8/12/2024 16:58	11104	EGYP_T1	8	7	-1	0.88	0.6	-0.28	0	0	0	0	0	0	0	0
8/12/2024 16:58	11102	EGYP_T1	1	3	2	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/12/2024 17:03	11104	EGYP_T1	6	6	0	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
8/12/2024 17:03	11103	EGYP_T1	0	0	0	0	0	0	0.74	0.71	0	0	0	0	0	0
8/12/2024 17:03	11102	EGYP_T1	3	1	-2	0.63	0.3	-0.33	0	0	0	0	0	0	0	0
8/12/2024 17:05	21501	CEAV_T2	0	0	0	0	0	0	-0.31	-0.61	1	1	0	1200	1200	0
8/12/2024 17:05	58401	MORO_T1	0	1	1	0	0.5	0.5	-2.01	-1.98	3	3	0	2100	2100	0
8/12/2024 17:05	58402	MORO_T1	3	3	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/12/2024 17:07	58401	MORO_T1	0	1	1	0	0.5	0.5	-1.98	-1.98	3	3	0	2100	2100	0
8/12/2024 17:07	58402	MORO_T1	3	3	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/12/2024 17:09	64101	REFR_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
8/12/2024 17:10	64101	REFR_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
8/12/2024 17:10	66901	SHIL_T2	0	0	0	0	0	0	-0.88	-0.92	1	1	0	1200	1200	0
8/12/2024 17:11	45501	DERR_T2	0	0	0	0	0	0	0.65	0.59	2	2	0	1800	1800	0
8/12/2024 17:11	64101	REFR_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
8/12/2024 17:13	42503	ALTA_T2	0	0	0	0	0	0	-0.56	-0.53	0	0	0	0	0	0
8/12/2024 17:13	45501	DERR_T2	0	0	0	0	0	0	0.65	0.59	2	2	0	1800	1800	0
8/12/2024 17:14	45501	DERR_T2	0	0	0	0	0	0	0.65	0.59	2	2	0	1800	1800	0
8/12/2024 17:15	53902	HALI_T2	1	1	0	4.1	4	-0.1	-0.47	-0.51	0	0	0	0	0	0
8/12/2024 17:15	53903	HALI_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
8/12/2024 17:16	45501	DERR_T2	0	0	0	0	0	0	0.65	0.59	2	2	0	1800	1800	0
8/12/2024 17:16	54602	SUMM_T2	0	0	0	0	0	0	-1.88	-1.85	1	1	0	600	600	0
8/12/2024 17:17	53903	HALI_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
8/12/2024 17:17	53902	HALI_T2	1	1	0	4.1	4	-0.1	-0.95	-1.02	0	0	0	0	0	0
8/12/2024 17:19	53903	HALI_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
8/12/2024 17:19	53902	HALI_T2	1	1	0	4.1	4	-0.1	-0.95	-1.02	0	0	0	0	0	0
8/12/2024 17:21	46101	MACI_T2	0	0	0	0	0	0	-0.49	0.71	1	0	-1	1200	0	-1200
8/12/2024 17:23	52501	PROG_T1	0	0	0	0	0	0	-0.77	-0.82	1	1	0	300	300	0
8/12/2024 17:23	64101	REFR_T1	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
8/12/2024 17:25	64101	REFR_T1	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
8/12/2024 17:25	51204	MTON_T2	0	0	0	0	0	0	-1.07	-1.03	2	2	0	1500	1500	0
8/12/2024 17:26	45501	DERR_T2	0	0	0	0	0	0	0.59	0.63	2	2	0	1800	1800	0
8/12/2024 17:28	60701	BREC_T1	0	0	0	0	0	0	-0.49	-0.51	2	2	0	1200	1200	0
8/12/2024 17:29	60701	BREC_T1	0	0	0	0	0	0	-0.49	-0.51	2	2	0	1200	1200	0
8/12/2024 17:30	14801	TREI_T2	1	7	6	0.8	0.57	-0.23	0.54	0.56	0	0	0	0	0	0
8/12/2024 17:32	42902	MIDD_T2	1	2	1	2.8	2.6	-0.2	-0.24	-0.27	0	0	0	0	0	0
8/12/2024 17:32	42903	MIDD_T2	3	2	-1	0.43	0.6	0.17	0	0	0	0	0	0	0	0
8/12/2024 17:33	42902	MIDD_T2	1	2	1	2.8	2.6	-0.2	-0.24	-0.27	0	0	0	0	0	0
8/12/2024 17:33	42903	MIDD_T2	3	2	-1	0.43	0.6	0.17	0	0	0	0	0	0	0	0
8/12/2024 17:34	42902	MIDD_T2	1	2	1	2.8	2.6	-0.2	-0.24	-0.27	0	0	0	0	0	0
8/12/2024 17:34	64904	MILL_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
8/12/2024 17:34	42903	MIDD_T2	3	2	-1	0.43	0.6	0.17	0	0	0	0	0	0	0	0
8/12/2024 17:35	23203	HIRU_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
8/12/2024 17:36	42903	MIDD_T2	3	2	-1	0.43	0.6	0.17	0	0	0	0	0	0	0	0
8/12/2024 17:36	42902	MIDD_T2	1	2	1	2.8	2.6	-0.2	-0.24	-0.27	0	0	0	0	0	0
8/12/2024 17:38	42902	MIDD_T2	1	2	1	2.8	2.6	-0.2	-0.27	-0.21	0	0	0	0	0	0
8/12/2024 17:38	42903	MIDD_T2	3	2	-1	0.43	0.6	0.17	0	0	0	0	0	0	0	0
8/12/2024 17:57	44301	BEAV_T2	0	0	0	0	0	0	-0.83	-1	2	2	0	1200	1200	0
8/12/2024 17:58	44301	BEAV_T2	0	0	0	0	0	0	-0.41	-0.5	1	1	0	600	600	0
8/12/2024 18:01	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 18:06	47802	MOCA_T2	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
8/12/2024 18:09	47401	PENS_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
8/12/2024 18:10	47401	PENS_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
8/12/2024 18:19	12701	MACU_T1	0	0	0	0	0	0	-0.81	-0.77	1	1	0	1200	1200	0
8/12/2024 18:24	56501	ROCK_T2	120	204	84	0.23	0.28	0.05	-1.75	-1.82	0	0	0	0	0	0
8/12/2024 18:26	56501	ROCK_T2	120	204	84	0.23	0.28	0.05	-1.75	-1.82	0	0	0	0	0	0
8/12/2024 18:29	56501	ROCK_T2	120	204	84	0.23	0.28	0.05	-1.75	-1.82	0	0	0	0	0	0
8/12/2024 18:34	24105	EHAZ_T1	4	4	0	6.03	6.08	0.05	0	0	0	0	0	0	0	0
8/12/2024 18:34	24102	EHAZ_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
8/12/2024 18:34	24103	EHAZ_T1	0	0	0	0	0	0	-0.29	-0.37	0	0	0	0	0	0
8/12/2024 18:35	24102	EHAZ_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
8/12/2024 18:35	24105	EHAZ_T1	4	4	0	6.03	6.08	0.05	0	0	0	0	0	0	0	0
8/12/2024 18:35	24103	EHAZ_T1	0	0	0	0	0	0	-0.29	-0.37	0	0	0	0	0	0
8/12/2024 18:49	65501	MOJO_T1	0	0	0	0	0	0	-0.83	-0.83	1	1	0	900	900	0
8/12/2024 18:54	43301	WATS_T2	0	7	7	0	0.16	0.16	-0.23	-0.24	1	1	0	900	900	0
8/12/2024 18:54	43302	WATS_T2	4	4	0	0.48	0.9	0.42	0	0	0	0	0	0	0	0
8/12/2024 19:02	46602	LACR_T1	13	7	-6	0.21	0.16	-0.05	-0.66	-0.68	0	0	0	0	0	0
8/12/2024 19:07	57502	LAWN_T3	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
8/12/2024 19:35	12603	MACA_T1	3	2	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
8/12/2024 19:35	12602	MACA_T1	0	0	0	0	0	0	-1.48	-1.63	0	0	0	0	0	0
8/12/2024 19:41	55101	WERT_T1	0	0	0	0	0	0	-1.61	-1.78	3	3	0	2700	2700	0
8/12/2024 20:08	42802	SELI_T1	0	0	0	0	0	0	-0.78	-0.89	0	0	0	0	0	0
8/12/2024 20:17	42302	MOWR_T2	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
8/12/2024 20:26	16102	BING_T2	6	13	7	0.22	0.28	0.06	-0.52	-0.44	1	1	0	1200	1200	0
8/12/2024 20:51	25503	MADI_T1	0	1	1	0	0.1	0.1	-0.78	-0.76	0	0	0	0	0	0
8/12/2024 20:51	25501	MADI_T1	3	3	0	0.93	0.9	-0.03	0	0	0	0	0	0	0	0
8/12/2024 21:05	40902	JESH_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
8/12/2024 21:05	40901	JESH_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/12/2024 21:10	56501	ROCK_T2	165	127	-38	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
8/12/2024 21:10	56504	ROCK_T2	0	0	0	0	0	0	-0.88	0.05	0	0	0	0	0	0
8/12/2024 21:11	56504	ROCK_T2	0	0	0	0	0	0	-0.88	0.05	0	0	0	0	0	0
8/12/2024 21:11	56501	ROCK_T2	165	127	-38	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
8/12/2024 21:12	56504	ROCK_T2	0	0	0	0	0	0	-0.88	0.05	0	0	0	0	0	0
8/12/2024 21:12	56501	ROCK_T2	165	127	-38	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
8/12/2024 21:17	56504	ROCK_T2	0	0	0	0	0	0	-1.76	0.1	0	0	0	0	0	0
8/12/2024 21:17	56501	ROCK_T2	96	172	76	0.2	0.25	0.05	0	0	0	0	0	0	0	0
8/12/2024 21:22	41901	REED_T1	9	9	0	0.77	0.88	0.11	0	0	0	0	0	0	0	0
8/12/2024 21:22	41902	REED_T1	2	0	-2	0.4	0	-0.4	1.3	1.25	0	0	0	0	0	0
8/12/2024 21:31	67602	WARW_T2	0	0	0	0	0	0	0.29	0.28	1	1	0	300	300	0
8/12/2024 21:32	67602	WARW_T2	0	0	0	0	0	0	0.29	0.28	1	1	0	300	300	0
8/12/2024 21:38	45602	WOOL_T1	0	1	1	0	0	0	0.78	0.77	0	0	0	0	0	0
8/12/2024 21:40	45602	WOOL_T1	0	1	1	0	0	0	0.78	0.77	0	0	0	0	0	0
8/12/2024 21:50	67602	WARW_T2	0	0	0	0	0	0	0.28	0.45	1	1	0	300	300	0
8/12/2024 21:55	44301	BEAV_T2	0	0	0	0	0	0	-0.24	-0.66	1	1	0	600	600	0
8/12/2024 21:57	11504	FREE_T1	0	0	0	0	0	0	-2.19	-2.28	2	2	0	2100	2100	0
8/12/2024 21:58	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 21:58	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/12/2024 22:00	53102	WTWN_T1	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
8/12/2024 22:00	26704	HEML_T2	14	0	-14	0.1	0	-0.1	-0.82	-0.8	1	1	0	1200	1200	0
8/12/2024 22:00	65001	NEFF_T2	0	0	0	0	0	0	-0.49	-0.61	1	1	0	1200	1200	0
8/12/2024 22:00	47401	PENS_T1	0	0	0	0	0	0	-0.04	1.19	0	0	0	0	0	0
8/12/2024 22:00	65004	NEFF_T2	0	0	0	0	0	0	0.25	-0.27	0	0	0	0	0	0
8/12/2024 22:00	65003	NEFF_T2	32	0	-32	0.13	0	-0.13	0	0	0	0	0	0	0	0
8/12/2024 22:01	51004	NHAR_T1	1	1	0	6.1	6.5	0.4	-0.87	-0.95	0	0	0	0	0	0
8/12/2024 22:01	15703	TANN_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
8/12/2024 22:01	53102	WTWN_T1	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
8/12/2024 22:01	15702	TANN_T2	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
8/12/2024 22:01	63602	LETO_T1	0	101	101	0	0.21	0.21	-0.61	-0.7	1	1	0	600	600	0
8/12/2024 22:01	51002	NHAR_T1	1	1	0	1.5	0.8	-0.7	0	0	0	0	0	0	0	0
8/12/2024 22:01	67103	SPRI_T1	0	0	0	0	0	0	0.12	0.08	0	0	0	0	0	0
8/12/2024 22:02	12402	MILF_T1	1	1	0	1.9	1	-0.9	0.7	0.68	0	0	0	0	0	0
8/12/2024 22:02	11104	EGYP_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
8/12/2024 22:02	23201	HIRU_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 22:02	23202	HIRU_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
8/12/2024 22:02	64902	MILL_T2	0	0	0	0	0	0	-0.33	-0.34	1	1	0	900	900	0
8/12/2024 22:02	63403	HONY_T2	0	0	0	0	0	0	-0.96	-0.83	0	0	0	0	0	0
8/12/2024 22:03	67103	SPRI_T1	0	0	0	0	0	0	0.12	0.08	0	0	0	0	0	0
8/12/2024 22:03	55101	WERT_T1	0	0	0	0	0	0	-1.4	-1.43	2	2	0	1800	1800	0
8/12/2024 22:03	67106	SPRI_T2	0	0	0	0	0	0	-1.04	-1.75	1	2	1	900	1500	600
8/12/2024 22:03	13501	MCMI_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
8/12/2024 22:03	12701	MACU_T1	0	0	0	0	0	0	-1.06	-1.06	1	1	0	1200	1200	0
8/12/2024 22:03	65803	RTWN_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 22:03	48302	ORWI_T2	2	2	0	1.05	0.85	-0.2	-0.54	-0.58	0	0	0	0	0	0
8/12/2024 22:03	15702	TANN_T2	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/12/2024 22:03	15703	TANN_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
8/12/2024 22:03	65802	RTWN_T2	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
8/12/2024 22:04	23102	MOSC_T2	0	0	0	0	0	0	-2.57	-2.79	2	2	0	1800	1800	0
8/12/2024 22:04	16302	ALPA_T2	0	0	0	0	0	0	0.89	0.86	0	0	0	0	0	0
8/12/2024 22:04	52204	DEVO_T2	1	3	2	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/12/2024 22:04	52202	DEVO_T2	0	0	0	0	0	0	-1.09	-1.09	0	0	0	0	0	0
8/12/2024 22:04	67106	SPRI_T2	0	0	0	0	0	0	-1.04	-1.75	1	2	1	900	1500	600
8/12/2024 22:04	16101	BING_T2	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
8/12/2024 22:04	12807	MICK_T1	1	1	0	0.4	0.2	-0.2	-1.41	-1.35	0	0	0	0	0	0
8/12/2024 22:04	56501	ROCK_T2	2	1	-1	0.55	0.7	0.15	0.38	0.38	0	0	0	0	0	0
8/12/2024 22:04	67603	WARW_T1	0	0	0	0	0	0	0.15	0.08	0	0	0	0	0	0
8/12/2024 22:04	46206	DANV_T2	0	0	0	0	0	0	1.43	1.37	2	2	0	2100	2100	0
8/12/2024 22:04	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:04	44301	BEAV_T2	0	0	0	0	0	0	-0.24	-0.66	1	1	0	600	600	0
8/12/2024 22:04	67605	WARW_T1	3	2	-1	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
8/12/2024 22:04	16102	BING_T2	3	11	8	0.17	0.19	0.02	0	0	0	0	0	0	0	0
8/12/2024 22:05	57501	LAWN_T3	0	0	0	0	0	0	-0.36	-0.41	0	0	0	0	0	0
8/12/2024 22:05	13501	MCMI_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
8/12/2024 22:05	11507	FREE_T2	0	0	0	0	0	0	0.95	0.93	0	0	0	0	0	0
8/12/2024 22:05	60502	NMAN_T2	0	0	0	0	0	0	0.09	0.01	0	0	0	0	0	0
8/12/2024 22:05	25402	LAHA_T2	0	0	0	0	0	0	-0.85	-0.87	0	0	0	0	0	0
8/12/2024 22:05	11103	EGYP_T1	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
8/12/2024 22:05	53601	DALM_T2	1	1	0	0.2	0.4	0.2	1.05	1.06	0	0	0	0	0	0
8/12/2024 22:05	16302	ALPA_T2	0	0	0	0	0	0	0.89	0.86	0	0	0	0	0	0
8/12/2024 22:05	13905	SEID_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
8/12/2024 22:05	57702	PAXT_T1	0	0	0	0	0	0	0.21	0.14	0	0	0	0	0	0
8/12/2024 22:06	67002	STHI_T2	0	0	0	0	0	0	1.01	0.96	0	0	0	0	0	0
8/12/2024 22:06	40801	EXCH_T2	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
8/12/2024 22:06	63305	GREE_T1	14	7	-7	0.25	0.13	-0.12	0	0	0	0	0	0	0	0
8/12/2024 22:06	20401	ASHF_T2	6	4	-2	0.53	0.58	0.05	0	0	0	0	0	0	0	0
8/12/2024 22:06	20403	ASHF_T2	0	0	0	0	0	0	0.35	0.31	0	0	0	0	0	0
8/12/2024 22:06	61703	ELIZ_T1	0	0	0	0	0	0	-1.5	-1.54	1	1	0	900	900	0
8/12/2024 22:06	14604	SWHI_T1	0	0	0	0	0	0	0.29	0.25	1	1	0	900	900	0
8/12/2024 22:06	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:06	41304	FISH_T2	1	1	0	0	0	0	1.14	0.96	0	0	0	0	0	0
8/12/2024 22:06	65803	RTWN_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 22:06	67001	STHI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/12/2024 22:06	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:06	61701	ELIZ_T1	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
8/12/2024 22:06	65802	RTWN_T2	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
8/12/2024 22:06	63304	GREE_T1	0	22	22	0	0.14	0.14	0	0	0	0	0	0	0	0
8/12/2024 22:06	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	1	1	0	600	600
8/12/2024 22:06	60701	BREC_T1	0	0	0	0	0	0	-0.27	-0.32	1	1	0	600	600	0
8/12/2024 22:06	63306	GREE_T1	0	0	0	0	0	0	-1.3	-1.33	1	1	0	900	900	0
8/12/2024 22:06	40802	EXCH_T2	1	0	-1	0.1	0	-0.1	-0.17	-0.22	0	0	0	0	0	0
8/12/2024 22:06	20402	ASHF_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/12/2024 22:06	53501	EVIL_T2	2	2	0	0.65	0.85	0.2	-0.01	-0.01	1	1	0	600	600	0
8/12/2024 22:06	46602	LACR_T1	6	1	-5	0.17	0.1	-0.07	-0.77	-0.85	0	0	0	0	0	0
8/12/2024 22:06	14601	SWHI_T1	0	0	0	0	0	0	-0.86	-0.96	0	0	0	0	0	0
8/12/2024 22:07	29401	BELT_T1	3	0	-3	0.1	0	-0.1	0	0	2	2	0	1800	1800	0
8/12/2024 22:07	61301	EARL_T1	0	0	0	0	0	0	-1.07	-1.09	2	2	0	1800	1800	0
8/12/2024 22:07	66504	SMAN_T2	0	0	0	0	0	0	-2.21	-2.51	2	2	0	2400	2400	0
8/12/2024 22:07	63401	HONY_T1	0	0	0	0	0	0	-0.07	0.01	2	2	0	1200	1200	0
8/12/2024 22:07	50502	MECH_T1	1	1	0	2	0.9	-1.1	-0.27	-0.29	2	2	0	2100	2100	0
8/12/2024 22:07	51702	OBER_T1	2	2	0	2.7	2.45	-0.25	-0.91	-0.85	2	2	0	1200	1200	0
8/12/2024 22:07	41304	FISH_T2	1	1	0	0	0	0	0.48	0.43	0	0	0	0	0	0
8/12/2024 22:07	20603	GRWO_T2	20	0	-20	0.14	0	-0.14	0	0	0	0	0	0	0	0
8/12/2024 22:07	29402	BELT_T1	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
8/12/2024 22:07	48301	ORWI_T1	2	2	0	5.2	5	-0.2	-0.42	-0.45	1	1	0	900	900	0
8/12/2024 22:07	16103	BING_T2	0	0	0	0	0	0	-1.19	-1.29	1	1	0	900	900	0
8/12/2024 22:07	59201	THOM_T1	13	0	-13	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/12/2024 22:07	20402	ASHF_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/12/2024 22:07	65803	RTWN_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 22:07	11104	EGYP_T1	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
8/12/2024 22:07	20802	LOPO_T1	0	0	0	0	0	0	-0.53	-0.53	1	1	0	600	600	0
8/12/2024 22:07	65802	RTWN_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
8/12/2024 22:07	67805	WLAN_T1	0	250	250	0	0.15	0.15	-1.23	-1.19	0	0	0	0	0	0
8/12/2024 22:07	56504	ROCK_T2	0	0	0	0	0	0	-0.06	-0.1	0	0	0	0	0	0
8/12/2024 22:07	40101	HUNT_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
8/12/2024 22:07	66505	SMAN_T2	0	2	2	0	0.1	0.1	-0.2	-0.29	3	3	0	2100	2100	0
8/12/2024 22:07	14601	SWHI_T1	0	0	0	0	0	0	-1.72	-1.92	0	0	0	0	0	0
8/12/2024 22:07	56501	ROCK_T2	2	1	-1	0.55	0.7	0.15	0	0	0	0	0	0	0	0
8/12/2024 22:07	20403	ASHF_T2	0	0	0	0	0	0	0.31	0.24	0	0	0	0	0	0
8/12/2024 22:07	40602	PIGR_T1	1	1	0	1.6	0.2	-1.4	-0.45	-0.49	0	0	0	0	0	0
8/12/2024 22:07	57702	PAXT_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
8/12/2024 22:07	60701	BREC_T1	0	0	0	0	0	0	-0.32	-0.35	1	1	0	600	600	0
8/12/2024 22:07	16102	BING_T2	3	11	8	0.17	0.19	0.02	0	0	0	0	0	0	0	0
8/12/2024 22:07	40601	PIGR_T1	2	0	-2	2.25	0	-2.25	0	0	0	0	0	0	0	0
8/12/2024 22:07	20401	ASHF_T2	6	4	-2	0.53	0.58	0.05	0	0	0	0	0	0	0	0
8/12/2024 22:07	59202	THOM_T1	57	0	-57	0.22	0	-0.22	0	0	0	0	0	0	0	0
8/12/2024 22:07	50501	MECH_T1	4	4	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
8/12/2024 22:07	20601	GRWO_T2	0	0	0	0	0	0	0.79	0.77	0	0	0	0	0	0
8/12/2024 22:08	29401	BELT_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 22:08	24202	PROV_T4	1	0	-1	2.6	0	-2.6	-0.33	-0.41	1	1	0	1200	1200	0
8/12/2024 22:08	12602	MACA_T1	0	0	0	0	0	0	-1.13	-1.28	0	0	0	0	0	0
8/12/2024 22:08	47001	HUGH_T2	3	5	2	8.6	5.6	-3	-0.69	-0.72	0	0	0	0	0	0
8/12/2024 22:08	12606	MACA_T1	0	0	0	0	0	0	0.06	0.06	1	1	0	900	900	0
8/12/2024 22:08	53902	HALI_T2	1	1	0	5.9	5	-0.9	-0.13	-0.16	0	0	0	0	0	0
8/12/2024 22:08	65302	NBRI_T2	0	0	0	0	0	0	-0.75	-0.6	1	1	0	600	600	0
8/12/2024 22:08	23201	HIRU_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 22:08	63602	LETO_T1	0	101	101	0	0.21	0.21	-0.7	-0.73	1	1	0	600	600	0
8/12/2024 22:08	57501	LAWN_T3	0	0	0	0	0	0	-0.41	-0.48	0	0	0	0	0	0
8/12/2024 22:08	63305	GREE_T1	14	7	-7	0.25	0.13	-0.12	-1.06	-1.13	0	0	0	0	0	0
8/12/2024 22:08	29402	BELT_T1	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
8/12/2024 22:08	65001	NEFF_T2	0	0	0	0	0	0	-0.61	-0.69	1	1	0	1200	1200	0
8/12/2024 22:08	47002	HUGH_T2	2	3	1	0.1	0.23	0.13	0	0	0	0	0	0	0	0
8/12/2024 22:08	58102	NEKI_T1	1	1	0	1.4	0.6	-0.8	-0.41	-0.37	0	0	0	0	0	0
8/12/2024 22:08	57702	PAXT_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
8/12/2024 22:08	47802	MOCA_T2	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
8/12/2024 22:08	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/12/2024 22:08	67103	SPRI_T1	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
8/12/2024 22:08	67605	WARW_T1	3	2	-1	0.63	0.6	-0.03	-2.18	-2.24	0	0	0	0	0	0
8/12/2024 22:08	27302	PARR_T1	0	0	0	0	0	0	0.19	0.23	0	0	0	0	0	0
8/12/2024 22:08	56501	ROCK_T2	2	1	-1	0.55	0.7	0.15	0.38	0.39	0	0	0	0	0	0
8/12/2024 22:08	23203	HIRU_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
8/12/2024 22:08	63304	GREE_T1	0	22	22	0	0.14	0.14	0	0	0	0	0	0	0	0
8/12/2024 22:08	14801	TREI_T2	2	1	-1	0.65	0.9	0.25	-0.24	-0.33	0	0	0	0	0	0
8/12/2024 22:08	65003	NEFF_T2	32	0	-32	0.13	0	-0.13	0	0	0	0	0	0	0	0
8/12/2024 22:08	47101	MARL_T1	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
8/12/2024 22:08	59202	THOM_T1	57	0	-57	0.22	0	-0.22	0	0	0	0	0	0	0	0
8/12/2024 22:08	60502	NMAN_T2	0	0	0	0	0	0	0.01	-0.09	0	0	0	0	0	0
8/12/2024 22:08	10707	CATA_T2	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
8/12/2024 22:08	53903	HALI_T2	15	2	-13	0.37	0.8	0.43	0	0	0	0	0	0	0	0
8/12/2024 22:08	65206	PRIN_T4	1	0	-1	4.1	0	-4.1	0	0	0	0	0	0	0	0
8/12/2024 22:08	64101	REFR_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
8/12/2024 22:08	13503	MCMI_T2	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
8/12/2024 22:08	59201	THOM_T1	13	0	-13	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/12/2024 22:08	11103	EGYP_T1	0	0	0	0	0	0	0.52	0.44	0	0	0	0	0	0
8/12/2024 22:08	53901	HALI_T2	3	3	0	4.63	0.5	-4.13	0	0	0	0	0	0	0	0
8/12/2024 22:09	40101	HUNT_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
8/12/2024 22:09	12807	MICK_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/12/2024 22:09	65003	NEFF_T2	32	0	-32	0.13	0	-0.13	0	0	0	0	0	0	0	0
8/12/2024 22:09	12006	HATF_T1	0	0	0	0	0	0	-0.5	-0.48	2	2	0	2400	2400	0
8/12/2024 22:09	56501	ROCK_T2	2	1	-1	0.55	0.7	0.15	0.38	0.39	0	0	0	0	0	0
8/12/2024 22:09	66902	SHIL_T2	2	282	280	0.15	0.22	0.07	0	0	0	0	0	0	0	0
8/12/2024 22:09	46101	MACI_T2	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
8/12/2024 22:09	42201	SHEN_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
8/12/2024 22:09	64902	MILL_T2	0	0	0	0	0	0	-0.34	-0.33	1	1	0	900	900	0
8/12/2024 22:09	65001	NEFF_T2	0	0	0	0	0	0	-0.61	-0.69	1	1	0	1200	1200	0
8/12/2024 22:09	27302	PARR_T1	0	0	0	0	0	0	0.19	0.23	0	0	0	0	0	0
8/12/2024 22:09	66903	SHIL_T2	1	123	122	0.1	0.27	0.17	0	0	0	0	0	0	0	0
8/12/2024 22:09	65802	RTWN_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
8/12/2024 22:09	66504	SMAN_T2	0	0	0	0	0	0	-1.11	-1.25	1	1	0	1200	1200	0
8/12/2024 22:09	51202	MTON_T2	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
8/12/2024 22:09	60803	BUCK_T1	0	10	10	0	0.22	0.22	0	0	0	0	0	0	0	0
8/12/2024 22:09	57501	LAWN_T3	0	0	0	0	0	0	-0.41	-0.48	0	0	0	0	0	0
8/12/2024 22:09	64901	MILL_T1	0	45	45	0	0.21	0.21	0	0	0	0	0	0	0	0
8/12/2024 22:09	63305	GREE_T1	14	7	-7	0.25	0.13	-0.12	0	0	0	0	0	0	0	0
8/12/2024 22:09	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.09	-0.16	2	2	0	1800	1800	0
8/12/2024 22:09	12802	MICK_T1	0	0	0	0	0	0	-1.15	-1.18	0	0	0	0	0	0
8/12/2024 22:09	50501	MECH_T1	4	4	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
8/12/2024 22:09	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/12/2024 22:09	43801	SWIL_T1	14	4	-10	0.67	1.68	1.01	0	0	0	0	0	0	0	0
8/12/2024 22:09	43802	SWIL_T1	0	0	0	0	0	0	0.08	0.1	1	1	0	600	600	0
8/12/2024 22:09	28702	HAML_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
8/12/2024 22:09	12801	MICK_T1	0	0	0	0	0	0	-0.9	-0.95	1	1	0	600	600	0
8/12/2024 22:09	63304	GREE_T1	0	22	22	0	0.14	0.14	0	0	0	0	0	0	0	0
8/12/2024 22:09	50502	MECH_T1	1	1	0	2	0.9	-1.1	0	0	0	0	0	0	0	0
8/12/2024 22:09	64904	MILL_T1	0	4	4	0	0.23	0.23	-0.01	-0.07	0	0	0	0	0	0
8/12/2024 22:09	66901	SHIL_T2	58	295	237	0.15	0.39	0.24	0.09	0.07	0	0	0	0	0	0
8/12/2024 22:09	50505	MECH_T1	0	0	0	0	0	0	-0.67	-0.64	0	0	0	0	0	0
8/12/2024 22:09	63306	GREE_T1	0	0	0	0	0	0	-1.33	-1.35	1	1	0	900	900	0
8/12/2024 22:09	65803	RTWN_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 22:09	44201	POIN_T1	18	63	45	0.12	0.19	0.07	-1.92	-1.97	2	2	0	2100	2100	0
8/12/2024 22:09	28703	HAML_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 22:09	20603	GRWO_T2	20	0	-20	0.14	0	-0.14	-0.57	-0.59	1	1	0	900	900	0
8/12/2024 22:09	46203	DANV_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
8/12/2024 22:09	60801	BUCK_T1	0	13	13	0	0.18	0.18	-0.13	-0.14	0	0	0	0	0	0
8/12/2024 22:09	14602	SWHI_T1	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
8/12/2024 22:09	12604	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:09	67106	SPRI_T2	0	0	0	0	0	0	-1.75	-1.74	2	2	0	1500	1500	0
8/12/2024 22:10	53901	HALI_T2	3	3	0	4.63	0.5	-4.13	0	0	0	0	0	0	0	0
8/12/2024 22:10	24201	PROV_T3	2	1	-1	3.15	6.7	3.55	-2.45	-2.46	2	2	0	2400	2400	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/12/2024 22:10	51702	OBER_T1	2	2	0	2.7	2.45	-0.25	-0.46	-0.42	1	1	0	600	600	0
8/12/2024 22:10	46802	HEPB_T1	3	1	-2	0.23	0.7	0.47	-0.09	-0.16	0	0	0	0	0	0
8/12/2024 22:10	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:10	59003	MIFF_T1	1	0	-1	0.3	0	-0.3	0.59	0.44	0	0	0	0	0	0
8/12/2024 22:10	67605	WARW_T1	3	2	-1	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
8/12/2024 22:10	65207	PRIN_T4	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/12/2024 22:10	54201	PENN_T1	35	5	-30	0.53	1.02	0.49	-0.71	-0.72	0	0	0	0	0	0
8/12/2024 22:10	14601	SWHI_T1	0	0	0	0	0	0	-0.86	-0.96	0	0	0	0	0	0
8/12/2024 22:10	50502	MECH_T1	1	1	0	2	0.9	-1.1	0	0	0	0	0	0	0	0
8/12/2024 22:10	67805	WLAN_T1	0	250	250	0	0.15	0.15	0	0	0	0	0	0	0	0
8/12/2024 22:10	24103	EHAZ_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
8/12/2024 22:10	59202	THOM_T1	57	0	-57	0.22	0	-0.22	0	0	0	0	0	0	0	0
8/12/2024 22:10	53903	HALI_T2	15	2	-13	0.37	0.8	0.43	0	0	0	0	0	0	0	0
8/12/2024 22:10	27604	PIRI_T1	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
8/12/2024 22:10	67803	WLAN_T1	0	0	0	0	0	0	-0.53	-0.59	0	0	0	0	0	0
8/12/2024 22:10	14404	SSLA_T1	4	3	-1	2.6	3.07	0.47	0	0	0	0	0	0	0	0
8/12/2024 22:10	40101	HUNT_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
8/12/2024 22:10	23001	SAJO_T1	0	0	0	0	0	0	0.15	-0.76	0	0	0	0	0	0
8/12/2024 22:10	53902	HALI_T2	1	1	0	5.9	5	-0.9	-0.13	-0.16	0	0	0	0	0	0
8/12/2024 22:10	20603	GRWO_T2	20	0	-20	0.14	0	-0.14	0	0	0	0	0	0	0	0
8/12/2024 22:10	60701	BREC_T1	0	0	0	0	0	0	-0.32	-0.35	1	1	0	600	600	0
8/12/2024 22:10	20601	GRWO_T2	0	0	0	0	0	0	0.79	0.77	0	0	0	0	0	0
8/12/2024 22:10	16302	ALPA_T2	0	0	0	0	0	0	0.86	0.86	0	0	0	0	0	0
8/12/2024 22:10	52404	GRPA_T2	1	0	-1	0.4	0	-0.4	-0.08	-0.12	0	0	0	0	0	0
8/12/2024 22:10	50501	MECH_T1	4	4	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
8/12/2024 22:10	41001	LAUR_T2	94	96	2	1.46	1.46	0	0	0	0	0	0	0	0	0
8/12/2024 22:10	65206	PRIN_T4	1	0	-1	4.1	0	-4.1	0	0	0	0	0	0	0	0
8/12/2024 22:10	24105	EHAZ_T1	4	4	0	6.38	6.45	0.07	0	0	0	0	0	0	0	0
8/12/2024 22:10	54203	PENN_T1	18	18	0	1.39	0.34	-1.05	0	0	0	0	0	0	0	0
8/12/2024 22:10	24204	PROV_T3	1	1	0	5.9	6.5	0.6	0	0	0	0	0	0	0	0
8/12/2024 22:10	41002	LAUR_T2	63	65	2	1.45	1.52	0.07	0.12	0.11	0	0	0	0	0	0
8/12/2024 22:10	52402	GRPA_T2	3	3	0	0.7	0.17	-0.53	0	0	0	0	0	0	0	0
8/12/2024 22:10	59002	MIFF_T1	5	5	0	0.8	0.12	-0.68	0	0	0	0	0	0	0	0
8/12/2024 22:10	14401	SSLA_T1	0	0	0	0	0	0	-0.05	-0.11	1	1	0	600	600	0
8/12/2024 22:10	65503	MOJO_T2	0	0	0	0	0	0	-0.07	-0.13	0	0	0	0	0	0
8/12/2024 22:10	47101	MARL_T1	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
8/12/2024 22:10	24102	EHAZ_T1	0	0	0	0	0	0	0.16	0.21	0	0	0	0	0	0
8/12/2024 22:10	66303	MCGO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/12/2024 22:10	59201	THOM_T1	13	0	-13	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/12/2024 22:10	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:10	66302	MCGO_T2	0	0	0	0	0	0	-0.92	-1.04	1	1	0	600	600	0
8/12/2024 22:10	16103	BING_T2	0	0	0	0	0	0	-1.19	-1.29	1	1	0	900	900	0
8/12/2024 22:10	16102	BING_T2	3	11	8	0.17	0.19	0.02	0	0	0	0	0	0	0	0
8/12/2024 22:11	57201	ROSS_T1	4	0	-4	0.18	0	-0.18	0	0	0	0	0	0	0	0
8/12/2024 22:11	61501	EPET_T2	1	1	0	4.7	5.3	0.6	0	0	0	0	0	0	0	0
8/12/2024 22:11	57205	ROSS_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
8/12/2024 22:11	14605	SWHI_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/12/2024 22:11	63501	HEID_TBK1-2	55	56	1	2.22	1.68	-0.54	-0.27	-0.29	1	1	0	900	900	0
8/12/2024 22:11	53902	HALI_T2	1	1	0	5.9	5	-0.9	-0.26	-0.31	0	0	0	0	0	0
8/12/2024 22:11	11904	ETEX_T2	5	4	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/12/2024 22:11	56501	ROCK_T2	2	1	-1	0.55	0.7	0.15	0.77	0.78	0	0	0	0	0	0
8/12/2024 22:11	64902	MILL_T2	0	0	0	0	0	0	-0.34	-0.33	1	1	0	900	900	0
8/12/2024 22:11	42903	MIDD_T2	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
8/12/2024 22:11	20402	ASHF_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/12/2024 22:11	63804	HEMP_T1	1	1	0	6	5.5	-0.5	-0.09	-0.15	0	0	0	0	0	0
8/12/2024 22:11	46903	MNTG_T2	0	0	0	0	0	0	0	0.01	1	1	0	600	600	0
8/12/2024 22:11	47002	HUGH_T2	2	3	1	0.1	0.23	0.13	0	0	0	0	0	0	0	0
8/12/2024 22:11	50701	SMEC_T1	0	0	0	0	0	0	-0.45	-0.5	0	0	0	0	0	0
8/12/2024 22:11	53802	MBRG_T2	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
8/12/2024 22:11	15703	TANN_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
8/12/2024 22:11	20403	ASHF_T2	0	0	0	0	0	0	0.31	0.24	0	0	0	0	0	0
8/12/2024 22:11	12701	MACU_T1	0	0	0	0	0	0	-1.06	-1.06	1	1	0	1200	1200	0
8/12/2024 22:11	64101	REFR_T1	0	0	0	0	0	0	0.29	0.24	0	0	0	0	0	0
8/12/2024 22:11	47203	FAXO_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
8/12/2024 22:11	20401	ASHF_T2	6	4	-2	0.53	0.58	0.05	0	0	0	0	0	0	0	0
8/12/2024 22:11	53901	HALI_T2	3	3	0	4.63	0.5	-4.13	-1.05	-1.07	0	0	0	0	0	0
8/12/2024 22:11	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.09	-0.16	2	2	0	1800	1800	0
8/12/2024 22:11	23901	ERMO_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
8/12/2024 22:11	52501	PROG_T1	0	0	0	0	0	0	0.14	0.12	1	1	0	300	300	0
8/12/2024 22:11	12604	MACA_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
8/12/2024 22:11	57702	PAXT_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
8/12/2024 22:11	53903	HALI_T2	15	2	-13	0.37	0.8	0.43	0	0	0	0	0	0	0	0
8/12/2024 22:11	14603	SWHI_T1	0	0	0	0	0	0	0.27	0.27	1	1	0	600	600	0
8/12/2024 22:11	47001	HUGH_T2	3	5	2	8.6	5.6	-3	-0.69	-0.72	0	0	0	0	0	0
8/12/2024 22:11	47201	FAXO_T2	0	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0
8/12/2024 22:11	24702	FLND_T2	0	0	0	0	0	0	-0.05	-0.05	1	1	0	1200	1200	0
8/12/2024 22:11	11901	ETEX_T2	0	0	0	0	0	0	0.45	0.5	0	0	0	0	0	0
8/12/2024 22:11	48602	POCA_T1	0	0	0	0	0	0	0.69	0.68	1	1	0	1200	1200	0
8/12/2024 22:11	53501	EVIL_T2	2	2	0	0.65	0.85	0.2	-0.01	-0.01	1	1	0	600	600	0
8/12/2024 22:11	67702	WERN_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
8/12/2024 22:11	55101	WERT_T1	0	0	0	0	0	0	-1.43	-1.46	2	2	0	1800	1800	0
8/12/2024 22:11	15702	TANN_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
8/12/2024 22:12	50501	MECH_T1	4	4	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
8/12/2024 22:12	63602	LETO_T1	0	101	101	0	0.21	0.21	-0.7	-0.73	1	1	0	600	600	0
8/12/2024 22:12	65302	NBRI_T2	0	0	0	0	0	0	-0.75	-0.6	1	1	0	600	600	0
8/12/2024 22:12	22901	HARW_T1	0	0	0	0	0	0	-0.66	-0.51	1	1	0	1200	1200	0
8/12/2024 22:12	67001	STHI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/12/2024 22:12	61703	ELIZ_T1	0	0	0	0	0	0	-1.54	-1.56	1	1	0	900	900	0
8/12/2024 22:12	46002	BERW_T2	0	0	0	0	0	0	-0.88	-0.86	1	1	0	900	900	0
8/12/2024 22:12	64101	REFR_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
8/12/2024 22:12	67606	WARW_T1	3	2	-1	0.63	0.6	-0.03	-1.09	-1.12	0	0	0	0	0	0
8/12/2024 22:12	44801	EDAN_T2	119	193	74	0.44	0.53	0.09	0	0	0	0	0	0	0	0
8/12/2024 22:12	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.09	-0.16	2	2	0	1800	1800	0
8/12/2024 22:12	20401	ASHF_T2	6	4	-2	0.53	0.58	0.05	0	0	0	0	0	0	0	0
8/12/2024 22:12	67103	SPRI_T1	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
8/12/2024 22:12	55001	NEWP_T1	0	0	0	0	0	0	-0.7	-0.74	1	1	0	600	600	0
8/12/2024 22:12	26402	INOR_T1	0	8	8	0	0.14	0.14	-0.01	-0.01	0	0	0	0	0	0
8/12/2024 22:12	60701	BREC_T1	0	0	0	0	0	0	-0.32	-0.35	1	1	0	600	600	0
8/12/2024 22:12	51702	OBER_T1	2	2	0	2.7	2.45	-0.25	-0.91	-0.85	2	2	0	1200	1200	0
8/12/2024 22:12	14802	TREI_T2	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
8/12/2024 22:12	65205	PRIN_T1	1	1	0	1.9	2.1	0.2	0	0	0	0	0	0	0	0
8/12/2024 22:12	67002	STHI_T2	0	0	0	0	0	0	0.96	0.92	0	0	0	0	0	0
8/12/2024 22:12	50502	MECH_T1	1	1	0	2	0.9	-1.1	0	0	0	0	0	0	0	0
8/12/2024 22:12	20403	ASHF_T2	0	0	0	0	0	0	0.31	0.24	0	0	0	0	0	0
8/12/2024 22:12	67106	SPRI_T2	0	0	0	0	0	0	-1.75	-1.74	2	2	0	1500	1500	0
8/12/2024 22:12	50505	MECH_T1	0	0	0	0	0	0	-0.67	-0.64	0	0	0	0	0	0
8/12/2024 22:12	57702	PAXT_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
8/12/2024 22:12	65901	SAKR_T2	1	1	0	8.2	7.9	-0.3	-0.79	-0.82	1	1	0	900	900	0
8/12/2024 22:12	20402	ASHF_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/12/2024 22:12	12807	MICK_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/12/2024 22:12	64801	MONE_T2	1	28	27	0.4	0.21	-0.19	0	0	0	0	0	0	0	0
8/12/2024 22:12	51004	NHAR_T1	1	1	0	6.1	6.5	0.4	0	0	0	0	0	0	0	0
8/12/2024 22:12	26401	INOR_T1	1	1	0	9.4	9.7	0.3	0	0	0	0	0	0	0	0
8/12/2024 22:12	14801	TREI_T2	2	1	-1	0.65	0.9	0.25	0	0	0	0	0	0	0	0
8/12/2024 22:12	55101	WERT_T1	0	0	0	0	0	0	-1.43	-1.46	2	2	0	1800	1800	0
8/12/2024 22:12	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:12	51002	NHAR_T1	1	1	0	1.5	0.8	-0.7	0	0	0	0	0	0	0	0
8/12/2024 22:12	64802	MONE_T2	0	25	25	0	0.18	0.18	0.21	0.2	0	0	0	0	0	0
8/12/2024 22:12	61701	ELIZ_T1	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
8/12/2024 22:12	66505	SMAN_T2	0	2	2	0	0.1	0.1	-0.2	-0.29	3	3	0	2100	2100	0
8/12/2024 22:12	12801	MICK_T1	0	0	0	0	0	0	-0.9	-0.95	1	1	0	600	600	0
8/12/2024 22:12	14603	SWHI_T1	0	0	0	0	0	0	0.27	0.27	1	1	0	600	600	0
8/12/2024 22:12	55002	NEWP_T1	6	2	-4	0.72	0.6	-0.12	-0.2	-0.21	0	0	0	0	0	0
8/12/2024 22:12	44802	EDAN_T2	0	0	0	0	0	0	-1.15	-1.2	0	0	0	0	0	0
8/12/2024 22:13	60502	NMAN_T2	0	0	0	0	0	0	0.01	-0.09	0	0	0	0	0	0
8/12/2024 22:13	41304	FISH_T2	1	1	0	0	0	0	0.48	0.43	0	0	0	0	0	0
8/12/2024 22:13	40801	EXCH_T2	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
8/12/2024 22:13	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:13	20403	ASHF_T2	0	0	0	0	0	0	0.31	0.24	0	0	0	0	0	0
8/12/2024 22:13	42801	SELI_T1	0	0	0	0	0	0	-1.98	-2.06	1	1	0	1200	1200	0
8/12/2024 22:13	40601	PIGR_T1	2	0	-2	2.25	0	-2.25	0	0	0	0	0	0	0	0
8/12/2024 22:13	64101	REFR_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
8/12/2024 22:13	43302	WATS_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
8/12/2024 22:13	20402	ASHF_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/12/2024 22:13	53501	EVIL_T2	2	2	0	0.65	0.85	0.2	-0.01	-0.01	1	1	0	600	600	0
8/12/2024 22:13	63305	GREE_T1	14	7	-7	0.25	0.13	-0.12	-1.06	-1.13	0	0	0	0	0	0
8/12/2024 22:13	20401	ASHF_T2	6	4	-2	0.53	0.58	0.05	0	0	0	0	0	0	0	0
8/12/2024 22:13	55101	WERT_T1	0	0	0	0	0	0	-1.43	-1.46	2	2	0	1800	1800	0
8/12/2024 22:13	67103	SPRI_T1	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
8/12/2024 22:13	51202	MTON_T2	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
8/12/2024 22:13	44802	EDAN_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
8/12/2024 22:13	13002	NBET_T2	0	0	0	0	0	0	-1.43	-1.47	2	2	0	2400	2400	0
8/12/2024 22:13	42802	SELI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/12/2024 22:13	60803	BUCK_T1	0	10	10	0	0.22	0.22	0	0	0	0	0	0	0	0
8/12/2024 22:13	40802	EXCH_T2	1	0	-1	0.1	0	-0.1	-0.22	-0.88	0	0	0	0	0	0
8/12/2024 22:13	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:13	10702	CATA_T2	0	0	0	0	0	0	-0.76	-0.75	0	0	0	0	0	0
8/12/2024 22:13	56501	ROCK_T2	2	1	-1	0.55	0.7	0.15	1.15	1.17	0	0	0	0	0	0
8/12/2024 22:13	63304	GREE_T1	0	22	22	0	0.14	0.14	-1.54	-1.59	0	0	0	0	0	0
8/12/2024 22:13	43301	WATS_T2	0	0	0	0	0	0	0.52	0.44	0	0	0	0	0	0
8/12/2024 22:13	44801	EDAN_T2	119	193	74	0.44	0.53	0.09	0	0	0	0	0	0	0	0
8/12/2024 22:13	46206	DANV_T2	0	0	0	0	0	0	1.37	1.38	2	2	0	2100	2100	0
8/12/2024 22:13	47401	PENS_T1	0	0	0	0	0	0	1.19	1.21	0	0	0	0	0	0
8/12/2024 22:13	14605	SWHI_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/12/2024 22:13	60801	BUCK_T1	0	13	13	0	0.18	0.18	-0.13	-0.14	0	0	0	0	0	0
8/12/2024 22:13	55508	HERS_T2	2	2	0	1.9	1.55	-0.35	0	0	0	0	0	0	0	0
8/12/2024 22:13	57502	LAWN_T3	0	0	0	0	0	0	-0.78	-0.87	0	0	0	0	0	0
8/12/2024 22:13	41301	FISH_T1	3	3	0	1.17	0.87	-0.3	-0.05	-0.06	0	0	0	0	0	0
8/12/2024 22:13	40602	PIGR_T1	1	1	0	1.6	0.2	-1.4	0	0	0	0	0	0	0	0
8/12/2024 22:14	44703	MUNC_T2	3	3	0	0.63	0.83	0.2	0.61	0.54	0	0	0	0	0	0
8/12/2024 22:14	53502	EVIL_T2	0	0	0	0	0	0	0.1	0.07	1	1	0	600	600	0
8/12/2024 22:14	14601	SWHI_T1	0	0	0	0	0	0	-1.72	-1.92	0	0	0	0	0	0
8/12/2024 22:14	44702	MUNC_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/12/2024 22:14	47104	MARL_T1	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
8/12/2024 22:14	21705	SUBU_T1	1	1	0	5.3	6	0.7	0	0	0	0	0	0	0	0
8/12/2024 22:14	61701	ELIZ_T1	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
8/12/2024 22:14	55002	NEWP_T1	6	2	-4	0.72	0.6	-0.12	-0.2	-0.21	0	0	0	0	0	0
8/12/2024 22:14	16605	PONO_T1	0	0	0	0	0	0	-0.21	-0.31	1	1	0	1200	1200	0
8/12/2024 22:14	49804	UNIV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/12/2024 22:14	20802	LOPO_T1	0	0	0	0	0	0	-0.53	-0.53	1	1	0	600	600	0
8/12/2024 22:14	59201	THOM_T1	13	0	-13	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/12/2024 22:14	55102	WERT_T2	0	0	0	0	0	0	-0.4	-0.45	1	1	0	600	600	0
8/12/2024 22:14	46101	MACI_T2	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
8/12/2024 22:14	53802	MBRG_T2	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
8/12/2024 22:14	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:14	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.09	-0.16	2	2	0	1800	1800	0
8/12/2024 22:14	29402	BELT_T1	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
8/12/2024 22:14	48602	POCA_T1	0	0	0	0	0	0	0.69	0.68	1	1	0	1200	1200	0
8/12/2024 22:14	59202	THOM_T1	57	0	-57	0.22	0	-0.22	0	0	0	0	0	0	0	0
8/12/2024 22:14	43202	MVIL_T2	0	0	0	0	0	0	-0.39	-0.92	0	0	0	0	0	0
8/12/2024 22:14	63303	GREE_T1	0	0	0	0	0	0	0.47	0.37	1	1	0	600	600	0
8/12/2024 22:14	63305	GREE_T1	14	7	-7	0.25	0.13	-0.12	0	0	0	0	0	0	0	0
8/12/2024 22:14	44701	MUNC_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/12/2024 22:14	40902	JESH_T1	1	0	-1	0.1	0	-0.1	-0.57	-0.65	0	0	0	0	0	0
8/12/2024 22:14	57303	MOAL_T2	1	1	0	7.5	8	0.5	0	0	0	0	0	0	0	0
8/12/2024 22:14	11404	FARM_T1	0	0	0	0	0	0	0.73	0.68	0	0	0	0	0	0
8/12/2024 22:14	63401	HONY_T1	0	0	0	0	0	0	-0.03	0	1	1	0	600	600	0
8/12/2024 22:14	42701	AUGU_T1	1	0	-1	0.2	0	-0.2	0	0	2	2	0	1800	1800	0
8/12/2024 22:14	49803	UNIV_T1	1	1	0	6.4	6.1	-0.3	-0.89	-0.97	0	0	0	0	0	0
8/12/2024 22:14	44801	EDAN_T2	119	193	74	0.44	0.53	0.09	0	0	0	0	0	0	0	0
8/12/2024 22:14	44301	BEAV_T2	0	0	0	0	0	0	-1.31	-0.6	2	2	0	1200	1200	0
8/12/2024 22:14	65901	SAKR_T2	1	1	0	8.2	7.9	-0.3	0	0	0	0	0	0	0	0
8/12/2024 22:14	60902	DONG_T2	0	0	0	0	0	0	1.03	1.04	0	0	0	0	0	0
8/12/2024 22:14	67702	WERN_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
8/12/2024 22:14	56501	ROCK_T2	2	1	-1	0.55	0.7	0.15	0.38	0.39	0	0	0	0	0	0
8/12/2024 22:14	51204	MTON_T2	0	0	0	0	0	0	-0.23	-0.27	1	1	0	600	600	0
8/12/2024 22:14	29401	BELT_T1	3	0	-3	0.1	0	-0.1	0	0	1	1	0	900	900	0
8/12/2024 22:14	53501	EVIL_T2	2	2	0	0.65	0.85	0.2	0	0	0	0	0	0	0	0
8/12/2024 22:14	63304	GREE_T1	0	22	22	0	0.14	0.14	0	0	0	0	0	0	0	0
8/12/2024 22:14	57302	MOAL_T2	0	0	0	0	0	0	-1.3	-1.29	1	1	0	1200	1200	0
8/12/2024 22:14	48301	ORWI_T1	2	2	0	5.2	5	-0.2	-0.42	-0.45	1	1	0	900	900	0
8/12/2024 22:14	42802	SELI_T1	0	1	1	0	0.2	0.2	-3.16	-3.29	0	0	0	0	0	0
8/12/2024 22:14	65904	SAKR_T2	0	0	0	0	0	0	-1.75	-1.78	3	3	0	1500	1500	0
8/12/2024 22:14	12701	MACU_T1	0	0	0	0	0	0	-1.06	-1.06	1	1	0	1200	1200	0
8/12/2024 22:14	61703	ELIZ_T1	0	0	0	0	0	0	-1.54	-1.56	1	1	0	900	900	0
8/12/2024 22:14	55101	WERT_T1	0	0	0	0	0	0	-1.43	-1.46	2	2	0	1800	1800	0
8/12/2024 22:14	21701	SUBU_T1	1	1	0	5.9	6.3	0.4	0	0	0	0	0	0	0	0
8/12/2024 22:14	57502	LAWN_T3	0	0	0	0	0	0	-0.39	-0.44	0	0	0	0	0	0
8/12/2024 22:14	21704	SUBU_T1	0	0	0	0	0	0	-1.11	-1.05	1	1	0	1200	1200	0
8/12/2024 22:14	44802	EDAN_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
8/12/2024 22:15	46803	HEPB_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
8/12/2024 22:15	40502	CRES_T2	0	6	6	0	0.15	0.15	-0.3	-0.35	0	0	0	0	0	0
8/12/2024 22:15	29402	BELT_T1	1	1	0	7.3	7.4	0.1	0	0	0	0	0	0	0	0
8/12/2024 22:15	61803	EELI_T2	0	0	0	0	0	0	0.96	0.94	0	0	0	0	0	0
8/12/2024 22:15	61703	ELIZ_T1	0	0	0	0	0	0	-1.54	-1.56	1	1	0	900	900	0
8/12/2024 22:15	46801	HEPB_T2	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
8/12/2024 22:15	51904	COPA_T1	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/12/2024 22:15	52403	GRPA_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
8/12/2024 22:15	47101	MARL_T1	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
8/12/2024 22:15	51906	COPA_T1	0	0	0	0	0	0	1.61	-1.69	4	4	0	3000	3000	0
8/12/2024 22:15	65402	MARI_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 22:15	44301	BEAV_T2	0	0	0	0	0	0	-0.66	-0.3	1	1	0	600	600	0
8/12/2024 22:15	20603	GRWO_T2	0	4	4	0	0.1	0.1	-0.57	-0.59	1	1	0	900	900	0
8/12/2024 22:15	40801	EXCH_T2	0	0	0	0	0	0	-0.35	-0.37	1	1	0	1200	1200	0
8/12/2024 22:15	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/12/2024 22:15	64101	REFR_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
8/12/2024 22:15	61701	ELIZ_T1	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
8/12/2024 22:15	56501	ROCK_T2	1	1	0	0.7	0.2	-0.5	0.38	0.39	0	0	0	0	0	0
8/12/2024 22:15	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:15	14603	SWHI_T1	0	0	0	0	0	0	0.27	0.27	1	1	0	600	600	0
8/12/2024 22:15	53501	EVIL_T2	2	2	0	0.85	0.95	0.1	-0.01	-0.01	1	1	0	600	600	0
8/12/2024 22:15	42902	MIDD_T2	0	0	0	0	0	0	-0.79	-0.83	1	1	0	600	600	0
8/12/2024 22:15	53802	MBRG_T2	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
8/12/2024 22:15	44801	EDAN_T2	141	238	97	0.45	0.55	0.1	-1.54	-1.57	0	0	0	0	0	0
8/12/2024 22:15	48301	ORWI_T1	2	2	0	5	5.05	0.05	-0.42	-0.45	1	1	0	900	900	0
8/12/2024 22:15	52402	GRPA_T2	3	3	0	0.17	0.17	0	-0.55	-0.58	0	0	0	0	0	0
8/12/2024 22:15	46203	DANV_T2	0	2	2	0	0.1	0.1	-0.57	-0.57	0	0	0	0	0	0
8/12/2024 22:15	67605	WARW_T1	1	3	2	0.6	0.73	0.13	-1.09	-1.12	0	0	0	0	0	0
8/12/2024 22:15	61501	EPET_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
8/12/2024 22:15	16302	ALPA_T2	0	0	0	0	0	0	0.86	0.86	0	0	0	0	0	0
8/12/2024 22:15	48602	POCA_T1	0	0	0	0	0	0	1.38	1.35	2	2	0	2400	2400	0
8/12/2024 22:16	53802	MBRG_T2	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
8/12/2024 22:16	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:16	44202	POIN_T2	1	1	0	3	2.3	-0.7	0	0	0	0	0	0	0	0
8/12/2024 22:16	63304	GREE_T1	0	22	22	0	0.14	0.14	0	0	0	0	0	0	0	0
8/12/2024 22:16	12701	MACU_T1	0	0	0	0	0	0	-1.06	-1.06	1	1	0	1200	1200	0
8/12/2024 22:16	25603	ARRO_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
8/12/2024 22:16	56501	ROCK_T2	1	1	0	0.7	0.2	-0.5	0.38	0.39	0	0	0	0	0	0
8/12/2024 22:16	51702	OBER_T1	2	2	0	2.05	2.45	0.4	0	0	0	0	0	0	0	0
8/12/2024 22:16	46203	DANV_T2	0	2	2	0	0.1	0.1	-1.14	-1.14	0	0	0	0	0	0
8/12/2024 22:16	66505	SMAN_T2	0	3	3	0	0.27	0.27	-0.2	-0.29	3	3	0	2100	2100	0
8/12/2024 22:16	63305	GREE_T1	3	6	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
8/12/2024 22:16	44203	POIN_T2	0	0	0	0	0	0	-0.54	-0.51	2	2	0	2100	2100	0
8/12/2024 22:16	14603	SWHI_T1	0	0	0	0	0	0	-0.86	-0.96	0	0	0	0	0	0
8/12/2024 22:16	63306	GREE_T1	0	0	0	0	0	0	-1.33	-1.35	1	1	0	900	900	0
8/12/2024 22:16	44201	POIN_T1	12	96	84	0.13	0.21	0.08	-1.92	-1.97	2	2	0	2100	2100	0
8/12/2024 22:16	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:16	60701	BREC_T1	0	0	0	0	0	0	-0.32	-0.35	1	1	0	600	600	0
8/12/2024 22:16	51704	OBER_T1	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
8/12/2024 22:16	52402	GRPA_T2	3	3	0	0.17	0.17	0	-0.55	-0.58	0	0	0	0	0	0
8/12/2024 22:16	45702	LIND_T2	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
8/12/2024 22:16	52204	DEVO_T2	3	2	-1	0.43	0.35	-0.08	0	0	0	0	0	0	0	0
8/12/2024 22:16	45501	DERR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/12/2024 22:16	21705	SUBU_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
8/12/2024 22:16	62102	ELAN_T1	0	0	0	0	0	0	1.14	1.18	0	0	0	0	0	0
8/12/2024 22:16	21701	SUBU_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
8/12/2024 22:16	52202	DEVO_T2	0	0	0	0	0	0	-1.09	-1.16	0	0	0	0	0	0
8/12/2024 22:16	42802	SELI_T1	1	10	9	0.1	0.2	0.1	-1.05	-1.1	0	0	0	0	0	0
8/12/2024 22:16	14603	SWHI_T1	0	0	0	0	0	0	0.27	0.27	1	1	0	600	600	0
8/12/2024 22:16	63501	HEID_TBX1-2	55	75	20	2.12	0.96	-1.16	-0.27	-0.29	1	1	0	900	900	0
8/12/2024 22:16	45502	DERR_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
8/12/2024 22:16	54206	PENN_T2	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
8/12/2024 22:16	27302	PARR_T1	0	0	0	0	0	0	0.19	0.23	0	0	0	0	0	0
8/12/2024 22:17	44702	MUNC_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/12/2024 22:17	52402	GRPA_T2	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0	0
8/12/2024 22:17	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:17	66505	SMAN_T2	0	3	3	0	0.27	0.27	-0.2	-0.29	3	3	0	2100	2100	0
8/12/2024 22:17	43202	MVIL_T2	0	0	0	0	0	0	-0.39	-0.92	0	0	0	0	0	0
8/12/2024 22:17	43802	SWIL_T1	0	0	0	0	0	0	0.08	0.1	1	1	0	600	600	0
8/12/2024 22:17	57303	MOAL_T2	1	1	0	8.4	7.9	-0.5	0	0	0	0	0	0	0	0
8/12/2024 22:17	46203	DANV_T2	0	2	2	0	0.1	0.1	-0.57	-0.57	0	0	0	0	0	0
8/12/2024 22:17	51702	OBER_T1	2	2	0	2.05	2.45	0.4	-0.46	-0.42	1	1	0	600	600	0
8/12/2024 22:17	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:17	44201	POIN_T1	12	96	84	0.13	0.21	0.08	-1.92	-1.97	2	2	0	2100	2100	0
8/12/2024 22:17	20403	ASHF_T2	0	0	0	0	0	0	0.31	0.24	0	0	0	0	0	0
8/12/2024 22:17	65802	RTWN_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
8/12/2024 22:17	42201	SHEN_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
8/12/2024 22:17	52403	GRPA_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
8/12/2024 22:17	44302	BEAV_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
8/12/2024 22:17	65001	NEFF_T2	0	0	0	0	0	0	-0.61	-0.69	1	1	0	1200	1200	0
8/12/2024 22:17	44801	EDAN_T2	141	238	97	0.45	0.55	0.1	-3.09	-3.15	0	0	0	0	0	0
8/12/2024 22:17	46206	DANV_T2	0	0	0	0	0	0	1.37	1.38	2	2	0	2100	2100	0
8/12/2024 22:17	57306	MOAL_T2	0	0	0	0	0	0	-2.92	-2.93	1	1	0	1200	1200	0
8/12/2024 22:17	42503	ALTA_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
8/12/2024 22:17	20402	ASHF_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 22:17	45802	HEGI_T2	12	28	16	0.33	0.53	0.2	0.68	0.64	0	0	0	0	0	0
8/12/2024 22:17	20401	ASHF_T2	4	3	-1	0.58	0.4	-0.18	0	0	0	0	0	0	0	0
8/12/2024 22:17	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:17	44203	POIN_T2	0	0	0	0	0	0	-0.54	-0.51	2	2	0	2100	2100	0
8/12/2024 22:17	49803	UNIV_T1	1	1	0	6.4	5.7	-0.7	-0.89	-0.97	0	0	0	0	0	0
8/12/2024 22:17	44703	MUNC_T2	3	3	0	0.7	0.83	0.13	0	0	0	0	0	0	0	0
8/12/2024 22:17	44701	MUNC_T2	2	1	-1	0.15	0.1	-0.05	-1.4	-1.39	0	0	0	0	0	0
8/12/2024 22:17	64101	REFR_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
8/12/2024 22:17	40101	HUNT_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
8/12/2024 22:17	43801	SWIL_T1	4	2	-2	1.68	3.2	1.52	0	0	0	0	0	0	0	0
8/12/2024 22:17	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:17	47101	MARL_T1	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
8/12/2024 22:17	44202	POIN_T2	1	1	0	3	2.3	-0.7	0	0	0	0	0	0	0	0
8/12/2024 22:17	49804	UNIV_T1	0	10	10	0	0.2	0.2	0	0	0	0	0	0	0	0
8/12/2024 22:17	55101	WERT_T1	0	0	0	0	0	0	-1.43	-1.46	2	2	0	1800	1800	0
8/12/2024 22:17	57501	LAWN_T3	0	0	0	0	0	0	-0.41	-0.48	0	0	0	0	0	0
8/12/2024 22:18	43802	SWIL_T1	0	0	0	0	0	0	0.08	0.1	1	1	0	600	600	0
8/12/2024 22:18	46206	DANV_T2	0	0	0	0	0	0	1.37	1.38	2	2	0	2100	2100	0
8/12/2024 22:18	63305	GREE_T1	3	6	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
8/12/2024 22:18	51702	OBER_T1	2	2	0	2.05	2.45	0.4	-0.46	-0.42	1	1	0	600	600	0
8/12/2024 22:18	46203	DANV_T2	0	2	2	0	0.1	0.1	-1.14	-1.14	0	0	0	0	0	0
8/12/2024 22:18	46004	BERW_T2	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
8/12/2024 22:18	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:18	51004	NHAR_T1	1	1	0	6.5	6.6	0.1	-1.9	-1.94	0	0	0	0	0	0
8/12/2024 22:18	64801	MONE_T2	9	28	19	0.2	0.21	0.01	0	0	0	0	0	0	0	0
8/12/2024 22:18	46801	HEPB_T2	2	2	0	0.45	0.3	-0.15	0.74	0.69	0	0	0	0	0	0
8/12/2024 22:18	43801	SWIL_T1	4	2	-2	1.68	3.2	1.52	0	0	0	0	0	0	0	0
8/12/2024 22:18	47401	PENS_T1	0	0	0	0	0	0	1.19	1.21	0	0	0	0	0	0
8/12/2024 22:18	51704	OBER_T1	0	0	0	0	0	0	-0.44	-0.48	0	0	0	0	0	0
8/12/2024 22:18	53901	HALI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/12/2024 22:18	63303	GREE_T1	0	0	0	0	0	0	0.47	0.37	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/12/2024 22:18	54206	PENN_T2	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
8/12/2024 22:18	48601	POCA_T1	0	0	0	0	0	0	-0.69	-0.7	1	1	0	1200	1200	0
8/12/2024 22:18	64101	REFR_T1	0	0	0	0	0	0	0.73	0.6	0	0	0	0	0	0
8/12/2024 22:18	42902	MIDD_T2	0	0	0	0	0	0	-1.57	-1.67	2	2	0	1200	1200	0
8/12/2024 22:18	63501	HEID_TBK1-2	55	75	20	2.12	0.96	-1.16	-0.27	-0.29	1	1	0	900	900	0
8/12/2024 22:18	64802	MONE_T2	6	25	19	0.13	0.18	0.05	0.21	0.2	0	0	0	0	0	0
8/12/2024 22:18	11104	EGYP_T1	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
8/12/2024 22:18	52402	GRPA_T2	3	3	0	0.17	0.17	0	-0.55	-0.58	0	0	0	0	0	0
8/12/2024 22:18	53902	HALI_T2	1	1	0	4.5	5.2	0.7	-0.13	-0.16	0	0	0	0	0	0
8/12/2024 22:18	58401	MORO_T1	0	0	0	0	0	0	-1.45	-1.49	2	2	0	1200	1200	0
8/12/2024 22:18	63304	GREE_T1	0	22	22	0	0.14	0.14	-1.54	-1.59	0	0	0	0	0	0
8/12/2024 22:18	53903	HALI_T2	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
8/12/2024 22:18	61801	EELI_T2	0	0	0	0	0	0	-0.6	-0.65	1	1	0	600	600	0
8/12/2024 22:18	57501	LAWN_T3	0	0	0	0	0	0	-0.41	-0.48	0	0	0	0	0	0
8/12/2024 22:18	66505	SMAN_T2	0	3	3	0	0.27	0.27	-0.2	-0.29	3	3	0	2100	2100	0
8/12/2024 22:18	42802	SELI_T1	1	10	9	0.1	0.2	0.1	-1.05	-1.1	0	0	0	0	0	0
8/12/2024 22:18	51002	NHAR_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
8/12/2024 22:18	59101	WALK_T2	0	0	0	0	0	0	1.13	0.93	1	1	0	600	600	0
8/12/2024 22:18	45402	WBLO_T2	27	66	39	0.21	0.34	0.13	-0.56	-0.66	0	0	0	0	0	0
8/12/2024 22:18	40101	HUNT_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
8/12/2024 22:18	57502	LAWN_T3	0	0	0	0	0	0	-0.39	-0.44	0	0	0	0	0	0
8/12/2024 22:19	51702	OBER_T1	2	2	0	2.05	2.45	0.4	-0.46	-0.42	1	1	0	600	600	0
8/12/2024 22:19	58402	MORO_T1	0	0	0	0	0	0	0.05	0.04	2	2	0	1500	1500	0
8/12/2024 22:19	63602	LETO_T1	100	50	-50	0.21	0.14	-0.07	-0.7	-0.73	1	1	0	600	600	0
8/12/2024 22:19	44202	POIN_T2	1	1	0	3	2.3	-0.7	0	0	0	0	0	0	0	0
8/12/2024 22:19	66703	STRA_T1	5	34	29	0.42	0.24	-0.18	-0.01	-0.02	0	0	0	0	0	0
8/12/2024 22:19	40902	JESH_T1	0	0	0	0	0	0	-0.57	-0.65	0	0	0	0	0	0
8/12/2024 22:19	21501	CEAV_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
8/12/2024 22:19	67605	WARW_T1	1	3	2	0.6	0.73	0.13	-1.09	-1.12	0	0	0	0	0	0
8/12/2024 22:19	12802	MICK_T1	0	0	0	0	0	0	-1.15	-1.18	0	0	0	0	0	0
8/12/2024 22:19	43202	MVIL_T2	0	0	0	0	0	0	-0.39	-0.92	0	0	0	0	0	0
8/12/2024 22:19	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:19	59101	WALK_T2	0	0	0	0	0	0	3.38	2.79	3	3	0	1800	1800	0
8/12/2024 22:19	44203	POIN_T2	0	0	0	0	0	0	-0.54	-0.51	2	2	0	2100	2100	0
8/12/2024 22:19	55101	WERT_T1	0	0	0	0	0	0	-1.43	-1.46	2	2	0	1800	1800	0
8/12/2024 22:19	52402	GRPA_T2	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0	0
8/12/2024 22:19	44301	BEAV_T2	0	0	0	0	0	0	-0.66	-0.3	1	1	0	600	600	0
8/12/2024 22:19	53601	DALM_T2	1	2	1	0.3	0.4	0.1	0.53	0.53	0	0	0	0	0	0
8/12/2024 22:19	64305	LINC_T1	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
8/12/2024 22:19	51704	OBER_T1	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
8/12/2024 22:19	52403	GRPA_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
8/12/2024 22:19	12807	MICK_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/12/2024 22:19	67106	SPRI_T2	0	0	0	0	0	0	-1.75	-1.74	2	2	0	1500	1500	0
8/12/2024 22:19	64101	REFR_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
8/12/2024 22:20	58202	NEWV_T1	0	7	7	0	0.77	0.77	0.06	-0.03	0	0	0	0	0	0
8/12/2024 22:20	44801	EDAN_T2	141	238	97	0.45	0.55	0.1	0	0	0	0	0	0	0	0
8/12/2024 22:20	52202	DEVO_T2	0	0	0	0	0	0	-2.18	-2.32	0	0	0	0	0	0
8/12/2024 22:20	67605	WARW_T1	1	3	2	0.6	0.73	0.13	-1.09	-1.12	0	0	0	0	0	0
8/12/2024 22:20	53802	MBRG_T2	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
8/12/2024 22:20	42201	SHEN_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
8/12/2024 22:20	63304	GREE_T1	0	22	22	0	0.14	0.14	0	0	0	0	0	0	0	0
8/12/2024 22:20	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/12/2024 22:20	58401	MORO_T1	0	0	0	0	0	0	-2.9	-2.99	4	4	0	2400	2400	0
8/12/2024 22:20	41902	REED_T1	1	2	1	0.2	0	-0.2	1.16	1.13	0	0	0	0	0	0
8/12/2024 22:20	63302	GREE_T1	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
8/12/2024 22:20	48602	POCA_T1	0	0	0	0	0	0	0.69	0.68	1	1	0	1200	1200	0
8/12/2024 22:20	63305	GREE_T1	3	6	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
8/12/2024 22:20	12801	MICK_T1	0	0	0	0	0	0	-0.9	-0.95	1	1	0	600	600	0
8/12/2024 22:20	51702	OBER_T1	2	2	0	2.05	2.45	0.4	-0.91	-0.85	2	2	0	1200	1200	0
8/12/2024 22:20	12807	MICK_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/12/2024 22:20	52204	DEVO_T2	3	2	-1	0.43	0.35	-0.08	0	0	0	0	0	0	0	0
8/12/2024 22:20	23001	SAUO_T1	0	0	0	0	0	0	0.15	-0.76	0	0	0	0	0	0
8/12/2024 22:20	42903	MIDD_T2	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
8/12/2024 22:20	47401	PENS_T1	0	0	0	0	0	0	2.38	2.42	0	0	0	0	0	0
8/12/2024 22:20	44802	EDAN_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
8/12/2024 22:20	42902	MIDD_T2	0	0	0	0	0	0	-0.79	-0.83	1	1	0	600	600	0
8/12/2024 22:20	26302	OLFO_T2	0	0	0	0	0	0	-0.06	-0.08	2	2	0	1500	1500	0
8/12/2024 22:20	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.09	-0.16	2	2	0	1800	1800	0
8/12/2024 22:21	47502	NECO_T1	7	10	3	0.21	0.22	0.01	1.15	1.02	0	0	0	0	0	0
8/12/2024 22:21	40802	EXCH_T2	0	0	0	0	0	0	-0.22	-0.88	0	0	0	0	0	0
8/12/2024 22:21	56501	ROCK_T2	1	1	0	0.7	0.2	-0.5	0.38	0.39	0	0	0	0	0	0
8/12/2024 22:21	43802	SWIL_T1	0	0	0	0	0	0	0.08	0.1	1	1	0	600	600	0
8/12/2024 22:21	55002	NEWP_T1	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
8/12/2024 22:21	53802	MBRG_T2	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
8/12/2024 22:21	43801	SWIL_T1	4	2	-2	1.68	3.2	1.52	0	0	0	0	0	0	0	0
8/12/2024 22:21	63501	HEID_TBK1-2	55	75	20	2.12	0.96	-1.16	-0.27	-0.29	1	1	0	900	900	0
8/12/2024 22:21	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.09	-0.16	2	2	0	1800	1800	0
8/12/2024 22:21	42802	SELI_T1	1	10	9	0.1	0.2	0.1	-1.05	-1.1	0	0	0	0	0	0
8/12/2024 22:21	55001	NEWP_T1	0	0	0	0	0	0	-0.7	-0.74	1	1	0	600	600	0
8/12/2024 22:21	57702	PAXT_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
8/12/2024 22:22	40801	EXCH_T2	0	0	0	0	0	0	-0.37	-0.36	1	1	0	1200	1200	0
8/12/2024 22:22	42802	SELI_T1	1	10	9	0.1	0.2	0.1	-2.19	-2.18	0	0	0	0	0	0
8/12/2024 22:22	43801	SWIL_T1	4	2	-2	1.68	3.2	1.52	0	0	0	0	0	0	0	0
8/12/2024 22:22	43802	SWIL_T1	0	0	0	0	0	0	0.1	0.03	1	1	0	600	600	0
8/12/2024 22:22	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:22	58401	MORO_T1	0	0	0	0	0	0	-1.49	-1.55	2	2	0	1200	1200	0
8/12/2024 22:22	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:22	42902	MIDD_T2	0	0	0	0	0	0	-0.83	-0.86	1	1	0	600	600	0
8/12/2024 22:22	40902	JESH_T1	0	0	0	0	0	0	-0.65	-0.68	0	0	0	0	0	0
8/12/2024 22:23	46203	DANV_T2	0	2	2	0	0.1	0.1	-0.57	-0.64	0	0	0	0	0	0
8/12/2024 22:23	40902	JESH_T1	0	0	0	0	0	0	-0.65	-0.68	0	0	0	0	0	0
8/12/2024 22:23	47401	PENS_T1	0	0	0	0	0	0	1.21	1.14	0	0	0	0	0	0
8/12/2024 22:23	44302	BEAV_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
8/12/2024 22:23	53501	EVIL_T2	2	2	0	0.85	0.95	0.1	-0.01	-0.01	1	1	0	600	600	0
8/12/2024 22:23	57501	LAWN_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:23	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/12/2024 22:24	45501	DERR_T2	0	1	1	0	0.2	0.2	-0.16	-0.2	2	2	0	1800	1800	0
8/12/2024 22:24	46901	MNTG_T2	0	0	0	0	0	0	0.14	0.06	1	1	0	1200	1200	0
8/12/2024 22:24	44802	EDAN_T2	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
8/12/2024 22:24	44201	POIN_T1	12	96	84	0.13	0.21	0.08	-1.97	-1.95	2	2	0	2100	2100	0
8/12/2024 22:24	65003	NEFF_T2	0	0	0	0	0	0	-1.97	-1.97	2	2	0	1800	1800	0
8/12/2024 22:24	44801	EDAN_T2	141	238	97	0.45	0.55	0.1	0	0	0	0	0	0	0	0
8/12/2024 22:25	59101	WALK_T2	0	0	0	0	0	0	0.93	0.98	1	1	0	600	600	0
8/12/2024 22:27	47502	NECO_T1	7	10	3	0.21	0.22	0.01	1.02	0.95	0	0	0	0	0	0
8/12/2024 22:33	47401	PENS_T1	0	0	0	0	0	0	1.21	1.14	0	0	0	0	0	0
8/12/2024 22:33	65205	PRIN_T1	1	1	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
8/12/2024 22:36	63403	HONY_T2	0	0	0	0	0	0	-0.85	-0.87	0	0	0	0	0	0
8/12/2024 22:38	46102	MACI_T1	0	0	0	0	0	0	0.78	0.8	0	0	0	0	0	0
8/12/2024 22:51	65501	MOJO_T1	0	0	0	0	0	0	-1.12	-1.18	1	1	0	900	900	0
8/12/2024 22:53	63804	HEMP_T1	1	1	0	5.7	5.4	-0.3	-0.11	-0.19	0	0	0	0	0	0
8/12/2024 23:19	41301	FISH_T1	3	3	0	1.03	1.07	0.04	0	0	0	0	0	0	0	0
8/13/2024 0:04	45802	HEGI_T2	28	39	11	0.5	0.71	0.21	0.53	0.39	0	0	0	0	0	0
8/13/2024 6:56	14603	SWHI_T1	0	0	0	0	0	0	-0.12	0.66	1	0	-1	600	0	-600
8/13/2024 7:00	29401	BELT_T1	72	55	-17	0.27	0.21	-0.06	0	0	1	1	0	900	900	0
8/13/2024 7:00	29402	BELT_T1	1	1	0	8.6	8.7	0.1	0	0	0	0	0	0	0	0
8/13/2024 7:07	66502	SMAN_T2	0	0	0	0	0	0	0.34	0.64	0	0	0	0	0	0
8/13/2024 7:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 7:13	61503	EPET_T1	0	0	0	0	0	0	-0.9	-0.85	0	0	0	0	0	0
8/13/2024 7:14	67805	WLAN_T1	0	0	0	0	0	0	-0.94	-0.91	0	0	0	0	0	0
8/13/2024 7:32	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 7:38	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/13/2024 7:38	13303	ORVI_T1	0	0	0	0	0	0	-0.2	-0.13	0	0	0	0	0	0
8/13/2024 7:38	67002	STHI_T2	0	0	0	0	0	0	0.77	0.77	0	0	0	0	0	0
8/13/2024 7:39	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/13/2024 7:39	67002	STHI_T2	0	0	0	0	0	0	1.53	1.53	0	0	0	0	0	0
8/13/2024 7:43	53601	DALM_T2	1	1	0	1.2	1.2	0	0.22	0.37	0	0	0	0	0	0
8/13/2024 7:45	62104	ELAN_T1	0	0	0	0	0	0	1.01	1.13	4	4	0	3000	3000	0
8/13/2024 7:45	62105	ELAN_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 7:46	55508	HERS_T2	2	2	0	1.55	1.4	-0.15	-2.55	-2.53	1	1	0	1200	1200	0
8/13/2024 7:47	12006	HATF_T1	0	0	0	0	0	0	0.61	0.6	1	1	0	1200	1200	0
8/13/2024 7:47	62104	ELAN_T1	0	0	0	0	0	0	0.5	0.57	2	2	0	1500	1500	0
8/13/2024 7:47	62105	ELAN_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 7:48	53501	EVIL_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	1	1	0	600	600	0
8/13/2024 7:50	55508	HERS_T2	2	2	0	1.55	1.4	-0.15	-2.55	-2.53	1	1	0	1200	1200	0
8/13/2024 7:51	53501	EVIL_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	1	1	0	600	600	0
8/13/2024 7:53	13303	ORVI_T1	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
8/13/2024 7:54	13303	ORVI_T1	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
8/13/2024 7:56	67604	WARW_T1	0	0	0	0	0	0	0.08	0.02	0	0	0	0	0	0
8/13/2024 7:56	67605	WARW_T1	14	15	1	0.3	0.38	0.08	0	0	0	0	0	0	0	0
8/13/2024 8:06	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/13/2024 8:10	66703	STRA_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
8/13/2024 8:12	45501	DERR_T2	0	0	0	0	0	0	0.99	0.99	2	2	0	1800	1800	0
8/13/2024 8:12	66703	STRA_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
8/13/2024 8:12	45502	DERR_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/13/2024 8:15	45501	DERR_T2	0	0	0	0	0	0	0.99	0.99	2	2	0	1800	1800	0
8/13/2024 8:15	63501	HEID_TBK1-2	55	56	1	1.5	1.48	-0.02	0.18	0.19	1	1	0	900	900	0
8/13/2024 8:15	45502	DERR_T2	1	3	2	0.6	0.2	-0.4	0.29	1.13	0	0	0	0	0	0
8/13/2024 8:16	44801	EDAN_T2	83	152	69	0.4	0.46	0.06	-1.58	-1.56	0	0	0	0	0	0
8/13/2024 8:17	63501	HEID_TBK1-2	55	56	1	1.5	1.48	-0.02	0.18	0.19	1	1	0	900	900	0
8/13/2024 8:17	63401	HONY_T1	0	0	0	0	0	0	0.19	0.4	1	1	0	600	600	0
8/13/2024 8:17	40101	HUNT_T2	0	0	0	0	0	0	-0.18	-0.11	0	0	0	0	0	0
8/13/2024 8:23	59002	MIFF_T1	6	5	-1	0.85	0.56	-0.29	0	0	0	0	0	0	0	0
8/13/2024 8:23	59003	MIFF_T1	1	0	-1	0.5	0	-0.5	-0.25	0.73	0	0	0	0	0	0
8/13/2024 8:23	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 8:24	50107	HARR_T3	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
8/13/2024 8:24	50103	HARR_T3	2	2	0	1.2	0.75	-0.45	-0.46	-0.53	1	1	0	1200	1200	0
8/13/2024 8:24	50201	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 8:24	50102	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 8:24	50105	HARR_T3	6	6	0	5.18	5.55	0.37	0	0	0	0	0	0	0	0
8/13/2024 8:27	50102	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 8:27	45502	DERR_T2	1	3	2	0.6	0.2	-0.4	1.13	0.27	0	1	1	0	300	300
8/13/2024 8:27	50103	HARR_T3	2	2	0	1.2	0.75	-0.45	-0.46	-0.53	1	1	0	1200	1200	0
8/13/2024 8:27	50107	HARR_T3	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/13/2024 8:27	10603	BLGL_T1	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
8/13/2024 8:27	50105	HARR_T3	6	6	0	5.18	5.55	0.37	0	0	0	0	0	0	0	0
8/13/2024 8:27	50201	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 8:27	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 8:32	44801	EDAN_T2	149	125	-24	0.46	0.46	0	-1.56	-1.53	0	0	0	0	0	0
8/13/2024 8:34	63403	HONY_T2	0	0	0	0	0	0	-0.56	-0.53	1	1	0	600	600	0
8/13/2024 8:37	54502	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 8:37	54506	ENOL_T2	0	0	0	0	0	0	-0.21	-0.07	1	1	0	600	600	0
8/13/2024 8:37	54505	ENOL_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
8/13/2024 8:38	12302	LANA_T2	0	0	0	0	0	0	-0.16	-0.15	1	1	0	900	900	0
8/13/2024 8:39	13202	PALM_T2	0	0	0	0	0	0	-1.72	-1.72	3	3	0	3000	3000	0
8/13/2024 8:39	66703	STRA_T1	0	0	0	0	0	0	0.07	0.14	0	0	0	0	0	0
8/13/2024 8:41	12302	LANA_T2	0	0	0	0	0	0	-0.16	-0.15	1	1	0	900	900	0
8/13/2024 8:42	44301	BEAV_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/13/2024 8:42	67502	WEWI_T2	0	1	1	0	0.3	0.3	-1.17	-1.08	1	1	0	900	900	0
8/13/2024 8:42	67503	WEWI_T2	1	1	0	8.5	8.2	-0.3	0	0	0	0	0	0	0	0
8/13/2024 8:44	59101	WALK_T2	1	1	0	1.3	0.2	-1.1	1.88	1.67	1	1	0	600	600	0
8/13/2024 8:45	67502	WEWI_T2	1	1	0	0.1	0.6	0.5	-2.33	-2.16	2	2	0	1800	1800	0
8/13/2024 8:45	21705	SUBU_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
8/13/2024 8:45	53501	EVIL_T2	1	2	1	0.5	0.75	0.25	-0.01	-0.01	2	1	-1	1500	600	-900
8/13/2024 8:45	21701	SUBU_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
8/13/2024 8:45	21703	SUBU_T1	0	0	0	0	0	0	0.9	0.94	0	0	0	0	0	0
8/13/2024 8:45	67503	WEWI_T2	1	1	0	8.2	8.1	-0.1	0.05	0.06	0	0	0	0	0	0
8/13/2024 8:46	11507	FREE_T2	0	1	1	0	0	0	1.08	1.29	0	0	0	0	0	0
8/13/2024 8:46	53501	EVIL_T2	1	2	1	0.5	0.75	0.25	-0.01	-0.01	2	1	-1	1500	600	-900
8/13/2024 8:47	53501	EVIL_T2	1	2	1	0.5	0.75	0.25	-0.01	-0.01	2	1	-1	1500	600	-900
8/13/2024 8:48	53501	EVIL_T2	1	2	1	0.5	0.75	0.25	-0.01	-0.01	4	2	-2	3000	1200	-1800
8/13/2024 8:51	56501	ROCK_T2	0	1	1	0	0.2	0.2	0.12	0.14	0	0	0	0	0	0
8/13/2024 8:51	44203	POIN_T2	0	2	2	0	0.2	0.2	0.1	0.41	2	2	0	2100	2100	0
8/13/2024 8:51	59101	WALK_T2	0	1	1	0	0.2	0.2	1.88	1.67	1	1	0	600	600	0
8/13/2024 8:52	56501	ROCK_T2	0	1	1	0	0.2	0.2	0.14	0.17	0	0	0	0	0	0
8/13/2024 8:54	56501	ROCK_T2	0	1	1	0	0.2	0.2	0.14	0.17	0	0	0	0	0	0
8/13/2024 8:54	66502	SMAN_T2	0	0	0	0	0	0	0.65	0.86	0	0	0	0	0	0
8/13/2024 8:57	13202	PALM_T2	0	0	0	0	0	0	-1.72	-1.51	3	3	0	3000	3000	0
8/13/2024 8:59	40602	PIGR_T1	1	1	0	0.1	0.3	0.2	-0.52	-0.53	0	0	0	0	0	0
8/13/2024 8:59	40601	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 9:01	47001	HUGH_T2	3	3	0	8.93	8.93	0	-0.61	-0.58	0	0	0	0	0	0
8/13/2024 9:04	64305	LINC_T1	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
8/13/2024 9:06	53501	EVIL_T2	1	2	1	0.7	0.65	-0.05	-0.01	-0.01	1	1	0	600	600	0
8/13/2024 9:07	15702	TANN_T2	0	0	0	0	0	0	-0.22	-0.28	0	0	0	0	0	0
8/13/2024 9:07	64904	MILL_T1	0	0	0	0	0	0	-0.24	-0.21	0	0	0	0	0	0
8/13/2024 9:07	15703	TANN_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
8/13/2024 9:10	67605	WARW_T1	3	2	-1	0.1	0.1	0	-0.84	-0.81	0	0	0	0	0	0
8/13/2024 9:13	42902	MIDD_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
8/13/2024 9:13	42903	MIDD_T2	2	2	0	0.2	0.55	0.35	0	0	0	0	0	0	0	0
8/13/2024 9:13	20401	ASHF_T2	4	3	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/13/2024 9:13	20403	ASHF_T2	0	1	1	0	0.2	0.2	4.64	4.69	0	0	0	0	0	0
8/13/2024 9:14	67605	WARW_T1	3	2	-1	0.1	0.1	0	-0.84	-0.81	0	0	0	0	0	0
8/13/2024 9:15	42902	MIDD_T2	3	1	-2	0.2	0.2	0	0.08	0.27	0	0	0	0	0	0
8/13/2024 9:15	42903	MIDD_T2	2	2	0	0.55	0.15	-0.4	0	0	0	0	0	0	0	0
8/13/2024 9:16	53502	EVIL_T2	0	0	0	0	0	0	-0.01	0.29	2	2	0	1200	1200	0
8/13/2024 9:16	42902	MIDD_T2	3	1	-2	0.2	0.2	0	0.04	0.13	0	0	0	0	0	0
8/13/2024 9:16	42903	MIDD_T2	2	2	0	0.55	0.15	-0.4	0	0	0	0	0	0	0	0
8/13/2024 9:16	53501	EVIL_T2	2	2	0	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
8/13/2024 9:16	40101	HUNT_T2	0	1	1	0	0.2	0.2	-0.21	-0.09	0	0	0	0	0	0
8/13/2024 9:17	44301	BEAV_T2	0	2	2	0	0.1	0.1	-0.37	-0.01	2	2	0	1500	1500	0
8/13/2024 9:19	53501	EVIL_T2	2	2	0	0.65	0.2	-0.45	-0.01	-0.01	1	1	0	600	600	0
8/13/2024 9:21	53802	MBRG_T2	0	0	0	0	0	0	0.14	0.26	0	0	0	0	0	0
8/13/2024 9:22	64101	REFR_T1	0	0	0	0	0	0	0.04	0.08	0	0	0	0	0	0
8/13/2024 9:23	64101	REFR_T1	0	0	0	0	0	0	0.04	0.08	0	0	0	0	0	0
8/13/2024 9:23	42201	SHEN_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
8/13/2024 9:24	64101	REFR_T1	0	0	0	0	0	0	0.11	0.24	0	0	0	0	0	0
8/13/2024 9:24	48302	ORWI_T2	0	2	2	0	0.3	0.3	-0.49	-0.4	0	0	0	0	0	0
8/13/2024 9:25	64101	REFR_T1	0	0	0	0	0	0	0.08	0.16	0	0	0	0	0	0
8/13/2024 9:26	64101	REFR_T1	0	0	0	0	0	0	0.04	0.08	0	0	0	0	0	0
8/13/2024 9:28	64101	REFR_T1	0	0	0	0	0	0	0.04	0.08	0	0	0	0	0	0
8/13/2024 9:31	67503	WEWI_T2	1	1	0	8	8	0	0.08	0.11	0	0	0	0	0	0
8/13/2024 9:31	67502	WEWI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/13/2024 9:31	67605	WARW_T1	2	1	-1	0.1	0.1	0	-0.81	-0.78	0	0	0	0	0	0
8/13/2024 9:32	40101	HUNT_T2	1	2	1	0.2	0.3	0.1	-0.09	0.04	0	0	0	0	0	0
8/13/2024 9:34	10901	COOP_T2	0	1	1	0	0	0	-0.52	0.09	1	1	0	1200	1200	0
8/13/2024 9:34	20601	GRWO_T2	116	17	-99	0.55	0	-0.55	1.39	1.4	0	0	0	0	0	0
8/13/2024 9:35	64802	MONE_T2	1	2	1	0.2	0.4	0.2	0.4	0.41	0	0	0	0	0	0
8/13/2024 9:35	64801	MONE_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/13/2024 9:35	58401	MORO_T1	0	0	0	0	0	0	-0.75	-0.76	1	1	0	600	600	0
8/13/2024 9:35	20601	GRWO_T2	116	17	-99	0.55	0	-0.55	1.39	1.4	0	0	0	0	0	0
8/13/2024 9:36	48302	ORWI_T2	1	2	1	0.3	0.3	0	-0.49	-0.4	0	0	0	0	0	0
8/13/2024 9:37	58401	MORO_T1	0	0	0	0	0	0	-0.76	-0.77	1	1	0	600	600	0
8/13/2024 9:38	64904	MILL_T1	0	2	2	0	0.25	0.25	-0.14	-0.12	0	0	0	0	0	0
8/13/2024 9:38	64901	MILL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 9:40	64901	MILL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 9:40	14801	TREI_T2	3	4	1	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
8/13/2024 9:40	64904	MILL_T1	0	2	2	0	0.25	0.25	-0.14	-0.12	0	0	0	0	0	0
8/13/2024 9:40	14802	TREI_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
8/13/2024 9:41	20401	ASHF_T2	2	2	0	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
8/13/2024 9:41	20403	ASHF_T2	1	1	0	0.2	0.2	0	1.56	1.53	0	0	0	0	0	0
8/13/2024 9:42	64901	MILL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 9:42	64904	MILL_T1	0	2	2	0	0.25	0.25	-0.14	-0.12	0	0	0	0	0	0
8/13/2024 9:44	53601	DALM_T2	1	1	0	0.8	1.1	0.3	-0.5	-0.5	1	1	0	900	900	0
8/13/2024 9:45	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 9:45	29402	BELT_T1	1	1	0	7.3	7.4	0.1	0	0	0	0	0	0	0	0
8/13/2024 9:50	47001	HUGH_T2	3	5	2	9	6.88	-2.12	-0.59	-0.6	0	0	0	0	0	0
8/13/2024 9:52	40601	PIGR_T1	4	3	-1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
8/13/2024 9:52	40602	PIGR_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/13/2024 9:53	41902	REED_T1	0	0	0	0	0	0	1.14	1.18	0	0	0	0	0	0
8/13/2024 9:55	66505	SMAN_T2	0	0	0	0	0	0	0.57	0.66	2	2	0	1500	1500	0
8/13/2024 9:55	41902	REED_T1	0	0	0	0	0	0	1.14	1.18	0	0	0	0	0	0
8/13/2024 9:55	16101	BING_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
8/13/2024 9:56	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 9:56	67804	WLAN_T1	3	2	-1	0.2	0.3	0.1	-0.95	-0.88	0	0	0	0	0	0
8/13/2024 9:57	67804	WLAN_T1	3	2	-1	0.2	0.3	0.1	-0.95	-0.88	0	0	0	0	0	0
8/13/2024 9:57	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	0.13	0.2	0	0	0	0	0	0
8/13/2024 10:00	63403	HONY_T2	0	0	0	0	0	0	-0.3	-0.3	1	1	0	600	600	0
8/13/2024 10:00	67503	WEWI_T2	1	1	0	7.9	8	0.1	0.09	0.09	0	0	0	0	0	0
8/13/2024 10:00	45702	LIND_T2	1	1	0	0.3	0.3	0	-0.38	-0.36	0	0	0	0	0	0
8/13/2024 10:00	67502	WEWI_T2	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
8/13/2024 10:00	40505	CRES_T1	3	3	0	4.73	4.73	0	0.54	0.48	0	0	0	0	0	0
8/13/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
8/13/2024 10:00	63501	HEID_TBK1-2	55	56	1	1.91	1.66	-0.25	0.94	0.89	2	2	0	1800	1800	0
8/13/2024 10:00	28102	TWLA_T2	4	9	5	0.13	0.22	0.09	0.23	0.23	0	0	0	0	0	0
8/13/2024 10:00	63401	HONY_T1	0	0	0	0	0	0	0.52	0.47	1	1	0	600	600	0
8/13/2024 10:00	23102	MOSC_T2	0	0	0	0	0	0	-2.89	-3.01	4	4	0	4200	4200	0
8/13/2024 10:00	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 10:00	46602	LACR_T1	0	1	1	0	0.7	0.7	-0.85	-0.84	0	0	0	0	0	0
8/13/2024 10:01	28805	LAKE_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
8/13/2024 10:01	40602	PIGR_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/13/2024 10:01	40601	PIGR_T1	3	4	1	0.2	0.23	0.03	0.44	0.39	0	0	0	0	0	0
8/13/2024 10:02	45702	LIND_T2	1	1	0	0.3	0.3	0	0.38	0.36	0	0	0	0	0	0
8/13/2024 10:05	45702	LIND_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/13/2024 10:05	45701	LIND_T2	0	0	0	0	0	0	-1.47	-1.46	0	0	0	0	0	0
8/13/2024 10:06	46401	FLEM_T2	1	9	8	1.5	0.44	-1.06	0	0	0	0	0	0	0	0
8/13/2024 10:06	46402	FLEM_T2	0	16	16	0	0.1	0.1	0.45	0.51	1	1	0	600	600	0
8/13/2024 10:06	63401	HONY_T1	0	0	0	0	0	0	0.52	0.47	1	1	0	600	600	0
8/13/2024 10:07	56501	ROCK_T2	2	1	-1	0.2	0.3	0.1	0.27	0.3	0	0	0	0	0	0
8/13/2024 10:08	56501	ROCK_T2	2	1	-1	0.2	0.3	0.1	0.27	0.3	0	0	0	0	0	0
8/13/2024 10:08	53802	MBRG_T2	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
8/13/2024 10:09	50701	SMEC_T1	3	3	0	0.27	0.27	0	-0.39	-0.42	0	0	0	0	0	0
8/13/2024 10:09	41902	REED_T1	0	0	0	0	0	0	2.37	2.34	0	0	0	0	0	0
8/13/2024 10:09	56501	ROCK_T2	2	1	-1	0.2	0.3	0.1	0.27	0.3	0	0	0	0	0	0
8/13/2024 10:10	58202	NEWV_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
8/13/2024 10:10	42201	SHEN_T2	0	0	0	0	0	0	1.24	1.22	0	0	0	0	0	0
8/13/2024 10:10	57203	ROSS_T1	1	1	0	0.6	0.3	-0.3	-0.02	-0.08	0	0	0	0	0	0
8/13/2024 10:10	44203	POIN_T2	2	3	1	0.7	0	-0.7	1.24	1.71	6	6	0	6300	6300	0
8/13/2024 10:10	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 10:10	56501	ROCK_T2	2	1	-1	0.2	0.3	0.1	0.53	0.59	0	0	0	0	0	0
8/13/2024 10:10	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 10:10	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 10:10	57205	ROSS_T1	1	1	0	1.4	0.9	-0.5	0	0	0	0	0	0	0	0
8/13/2024 10:11	56501	ROCK_T2	2	1	-1	0.2	0.3	0.1	0.27	0.3	0	0	0	0	0	0
8/13/2024 10:11	41902	REED_T1	0	0	0	0	0	0	1.18	1.17	0	0	0	0	0	0
8/13/2024 10:11	57203	ROSS_T1	1	1	0	0.6	0.3	-0.3	-0.02	-0.08	0	0	0	0	0	0
8/13/2024 10:11	66505	SMAN_T2	0	0	0	0	0	0	0.66	0.8	2	2	0	1500	1500	0
8/13/2024 10:11	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 10:11	67605	WARW_T1	1	1	0	0.1	0.5	0.4	-0.77	-0.76	0	0	0	0	0	0
8/13/2024 10:11	20401	ASHF_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
8/13/2024 10:11	20403	ASHF_T2	1	3	2	0.2	0.27	0.07	3.41	3.53	0	0	0	0	0	0
8/13/2024 10:11	57205	ROSS_T1	1	1	0	1.4	0.9	-0.5	0	0	0	0	0	0	0	0
8/13/2024 10:11	44301	BEAV_T2	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
8/13/2024 10:11	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 10:12	20401	ASHF_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
8/13/2024 10:12	16102	BING_T2	0	1	1	0	0.1	0.1	0.24	0.16	1	1	0	1200	1200	0
8/13/2024 10:12	42302	MOWR_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
8/13/2024 10:12	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 10:12	29402	BELT_T1	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
8/13/2024 10:12	20403	ASHF_T2	1	3	2	0.2	0.27	0.07	1.7	1.77	0	0	0	0	0	0
8/13/2024 10:12	67804	WLAN_T1	1	3	2	0.3	0.23	-0.07	-0.88	-0.86	0	0	0	0	0	0
8/13/2024 10:12	45501	DERR_T2	1	1	0	0.8	0.7	-0.1	1.25	1.32	2	2	0	1800	1800	0
8/13/2024 10:12	45502	DERR_T2	3	1	-2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/13/2024 10:13	56501	ROCK_T2	2	1	-1	0.2	0.3	0.1	0.27	0.3	0	0	0	0	0	0
8/13/2024 10:13	45501	DERR_T2	1	1	0	0.8	0.7	-0.1	1.25	1.32	2	2	0	1800	1800	0
8/13/2024 10:13	45502	DERR_T2	3	1	-2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/13/2024 10:13	67804	WLAN_T1	1	3	2	0.3	0.23	-0.07	-0.88	-0.86	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/13/2024 10:13	67605	WARW_T1	1	1	0	0.1	0.5	0.4	-1.54	-1.51	0	0	0	0	0	0
8/13/2024 10:14	45502	DERR_T2	3	1	-2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/13/2024 10:14	53501	EVIL_T2	1	1	0	0.2	0.2	0	-0.01	-0.01	1	1	0	600	600	0
8/13/2024 10:14	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 10:14	45501	DERR_T2	1	1	0	0.8	0.7	-0.1	1.25	1.32	2	2	0	1800	1800	0
8/13/2024 10:14	20403	ASHF_T2	1	3	2	0.2	0.27	0.07	1.7	1.77	0	0	0	0	0	0
8/13/2024 10:14	20401	ASHF_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
8/13/2024 10:15	29402	BELT_T1	1	1	0	7.3	7.5	0.2	0	0	0	0	0	0	0	0
8/13/2024 10:15	52402	GRPA_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/13/2024 10:15	53501	EVIL_T2	1	2	1	0.1	0.2	0.1	-0.01	-0.01	1	1	0	600	600	0
8/13/2024 10:15	16102	BING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/13/2024 10:15	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 10:15	16103	BING_T2	0	0	0	0	0	0	-0.58	-0.59	2	2	0	1500	1500	0
8/13/2024 10:15	45501	DERR_T2	1	1	0	0.7	0.7	0	1.25	1.32	2	2	0	1800	1800	0
8/13/2024 10:15	52403	GRPA_T2	0	1	1	0	0.5	0.5	0.22	0.2	0	0	0	0	0	0
8/13/2024 10:15	45502	DERR_T2	1	1	0	0.5	0	-0.5	0.31	0.32	1	1	0	300	300	0
8/13/2024 10:15	63302	GREE_T1	0	0	0	0	0	0	0.98	1	0	0	0	0	0	0
8/13/2024 10:16	47001	HUGH_T2	4	4	0	6.88	6.85	-0.03	-0.49	-0.5	0	0	0	0	0	0
8/13/2024 10:16	53501	EVIL_T2	1	2	1	0.1	0.2	0.1	-0.01	-0.01	1	1	0	600	600	0
8/13/2024 10:16	45502	DERR_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/13/2024 10:16	45501	DERR_T2	1	1	0	0.7	0.7	0	1.25	1.32	2	2	0	1800	1800	0
8/13/2024 10:17	53501	EVIL_T2	1	2	1	0.1	0.2	0.1	-0.01	-0.01	2	2	0	1200	1200	0
8/13/2024 10:17	52403	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/13/2024 10:17	52402	GRPA_T2	1	1	0	0.6	0.6	0	-0.59	-0.59	0	0	0	0	0	0
8/13/2024 10:19	40101	HUNT_T2	2	2	0	0.3	0.15	-0.15	0.04	0.08	0	0	0	0	0	0
8/13/2024 10:19	20603	GRWO_T2	0	2	2	0	0.2	0.2	-0.5	-0.47	1	1	0	900	900	0
8/13/2024 10:19	53502	EVIL_T2	0	0	0	0	0	0	0.45	0.52	2	2	0	1200	1200	0
8/13/2024 10:19	20601	GRWO_T2	0	1	1	0	3.9	3.9	0	0	0	0	0	0	0	0
8/13/2024 10:19	63305	GREE_T1	0	0	0	0	0	0	-1.78	-1.63	1	1	0	900	900	0
8/13/2024 10:19	53501	EVIL_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/13/2024 10:19	63501	HEID_TBK1-2	56	55	-1	1.69	1.84	0.15	0.45	0.48	1	1	0	900	900	0
8/13/2024 10:20	47001	HUGH_T2	4	4	0	6.88	6.85	-0.03	-0.49	-0.5	0	0	0	0	0	0
8/13/2024 10:23	48302	ORWI_T2	2	3	1	0.35	0.3	-0.05	-0.41	-0.36	0	0	0	0	0	0
8/13/2024 10:23	14802	TREI_T2	1	1	0	0.2	0.2	0	0.78	0.84	0	0	0	0	0	0
8/13/2024 10:23	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 10:23	14801	TREI_T2	1	4	3	0.1	0.33	0.23	0	0	0	0	0	0	0	0
8/13/2024 10:24	55101	WERT_T1	0	0	0	0	0	0	-0.99	-1.76	3	4	1	2400	3300	900
8/13/2024 10:25	66504	SMAN_T2	0	1	1	0	0.1	0.1	-1.06	-1.03	1	1	0	1200	1200	0
8/13/2024 10:25	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/13/2024 10:26	55101	WERT_T1	0	0	0	0	0	0	-1.98	-3.51	6	8	2	4800	6600	1800
8/13/2024 10:27	55101	WERT_T1	0	0	0	0	0	0	-1.98	-3.51	6	8	2	4800	6600	1800
8/13/2024 10:27	66504	SMAN_T2	0	1	1	0	0.1	0.1	-2.12	-2.05	2	2	0	2400	2400	0
8/13/2024 10:27	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/13/2024 10:28	44801	EDAN_T2	57	55	-2	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
8/13/2024 10:28	55101	WERT_T1	0	0	0	0	0	0	-1.98	-3.51	6	8	2	4800	6600	1800
8/13/2024 10:28	44802	EDAN_T2	0	1	1	0	0	0	-1.48	-1.35	0	0	0	0	0	0
8/13/2024 10:29	20403	ASHF_T2	1	3	2	0.5	0.13	-0.37	1.77	1.86	0	0	0	0	0	0
8/13/2024 10:29	20401	ASHF_T2	1	5	4	0.2	0.47	0.27	0	0	0	0	0	0	0	0
8/13/2024 10:29	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/13/2024 10:30	44802	EDAN_T2	0	0	0	0	0	0	-0.49	-0.45	0	0	0	0	0	0
8/13/2024 10:30	44801	EDAN_T2	52	53	1	0.4	0.41	0.01	0	0	0	0	0	0	0	0
8/13/2024 10:31	53601	DALM_T2	1	1	0	0.7	0.5	-0.2	-0.4	-0.29	1	1	0	900	900	0
8/13/2024 10:31	44801	EDAN_T2	52	53	1	0.4	0.41	0.01	0	0	0	0	0	0	0	0
8/13/2024 10:31	44802	EDAN_T2	0	0	0	0	0	0	-0.99	-0.9	0	0	0	0	0	0
8/13/2024 10:32	45802	HEGI_T2	1	4	3	0.2	0.2	0	0.44	0.72	1	1	0	900	900	0
8/13/2024 10:32	44801	EDAN_T2	52	53	1	0.4	0.41	0.01	-1.42	-1.42	0	0	0	0	0	0
8/13/2024 10:34	53501	EVIL_T2	1	2	1	0.2	0.1	-0.1	-0.01	-0.01	1	3	2	600	1700	1100
8/13/2024 10:34	25402	LAHA_T2	1	2	1	0.3	0.3	0	-0.66	-0.46	0	0	0	0	0	0
8/13/2024 10:35	25501	MADI_T1	1	1	0	1.8	0.2	-1.6	0	0	0	0	0	0	0	0
8/13/2024 10:35	45802	HEGI_T2	1	4	3	0.2	0.2	0	0.44	0.72	1	1	0	900	900	0
8/13/2024 10:35	25503	MADI_T1	0	1	1	0	0	0	-0.82	-0.82	0	0	0	0	0	0
8/13/2024 10:36	53501	EVIL_T2	1	2	1	0.2	0.1	-0.1	-0.01	-0.01	1	3	2	600	1700	1100
8/13/2024 10:37	48302	ORWI_T2	2	1	-1	0.3	0.5	0.2	-0.36	-0.42	0	0	0	0	0	0
8/13/2024 10:38	15703	TANN_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
8/13/2024 10:38	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.14	-0.18	0	0	0	0	0	0
8/13/2024 10:40	45902	AUBU_T1	0	0	0	0	0	0	-0.42	-0.45	1	1	0	600	600	0
8/13/2024 10:41	40201	BEGA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/13/2024 10:41	55105	WERT_T1	0	0	0	0	0	0	0.01	-0.03	1	1	0	900	900	0
8/13/2024 10:41	10801	CHHI_T1	3	3	0	0.37	0.33	-0.04	-0.28	-0.21	1	1	0	900	900	0
8/13/2024 10:42	15703	TANN_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
8/13/2024 10:42	54203	PENN_T1	17	18	1	0.33	0.33	0	0	0	0	0	0	0	0	0
8/13/2024 10:42	10801	CHHI_T1	3	3	0	0.37	0.33	-0.04	-0.28	-0.21	1	1	0	900	900	0
8/13/2024 10:42	45902	AUBU_T1	0	0	0	0	0	0	-0.42	-0.45	1	1	0	600	600	0
8/13/2024 10:42	54201	PENN_T1	3	3	0	1.63	1.67	0.04	-0.61	-0.62	0	0	0	0	0	0
8/13/2024 10:42	64602	LEOL_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
8/13/2024 10:42	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.14	-0.18	0	0	0	0	0	0
8/13/2024 10:43	45902	AUBU_T1	0	0	0	0	0	0	-0.42	-0.45	1	1	0	600	600	0
8/13/2024 10:43	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.14	-0.18	0	0	0	0	0	0
8/13/2024 10:43	15703	TANN_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
8/13/2024 10:44	11303	EMMA_T1	1	1	0	1.1	1.2	0.1	-1.29	-1.27	0	0	0	0	0	0
8/13/2024 10:44	45902	AUBU_T1	0	0	0	0	0	0	-0.42	-0.45	1	1	0	600	600	0
8/13/2024 10:44	46004	BERW_T2	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
8/13/2024 10:44	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 10:44	59201	THOM_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/13/2024 10:45	17805	GILB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/13/2024 10:45	45901	AUBU_T1	0	0	0	0	0	0	1.82	1.9	0	0	0	0	0	0
8/13/2024 10:45	48302	ORWI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/13/2024 10:45	17804	GILB_T2	0	2	2	0	0.5	0.5	-0.46	-0.48	0	0	0	0	0	0
8/13/2024 10:46	53601	DALM_T2	1	1	0	0.3	0.6	0.3	-0.29	-0.45	1	1	0	900	900	0
8/13/2024 10:48	17802	GILB_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
8/13/2024 10:48	64204	KINZ_T1	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/13/2024 10:48	64203	KINZ_T1	1	1	0	0.9	0	-0.9	0.3	0.44	3	3	0	2100	2100	0
8/13/2024 10:49	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 10:53	55001	NEWP_T1	0	0	0	0	0	0	-0.02	0.03	0	0	0	0	0	0
8/13/2024 10:53	56504	ROCK_T2	0	0	0	0	0	0	0.22	0.34	0	0	0	0	0	0
8/13/2024 10:53	56501	ROCK_T2	1	0	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/13/2024 10:53	55002	NEWP_T1	6	5	-1	1.03	0.9	-0.13	-0.14	-0.09	0	0	0	0	0	0
8/13/2024 10:54	21701	SUBU_T1	1	1	0	6.8	6.8	0	0.94	0.96	0	0	0	0	0	0
8/13/2024 10:54	56501	ROCK_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/13/2024 10:54	21705	SUBU_T1	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
8/13/2024 10:54	56504	ROCK_T2	0	0	0	0	0	0	0.22	0.34	0	0	0	0	0	0
8/13/2024 10:55	56501	ROCK_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/13/2024 10:55	66701	STRA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 10:55	66504	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/13/2024 10:55	66703	STRA_T1	0	0	0	0	0	0	0.46	0.42	0	0	0	0	0	0
8/13/2024 10:55	55001	NEWP_T1	0	0	0	0	0	0	-0.02	0.03	0	0	0	0	0	0
8/13/2024 10:55	55002	NEWP_T1	6	5	-1	1.03	0.9	-0.13	0	0	0	0	0	0	0	0
8/13/2024 10:55	43304	WATS_T2	0	0	0	0	0	0	-0.29	-0.24	0	0	0	0	0	0
8/13/2024 10:55	43301	WATS_T2	1	1	0	0.2	0.1	-0.1	-0.39	-0.42	1	1	0	900	900	0
8/13/2024 10:55	41002	LAUR_T2	1	1	0	1.3	1.4	0.1	-0.83	-0.84	0	0	0	0	0	0
8/13/2024 10:55	66502	SMAN_T2	1	1	0	0.2	0.2	0	0.49	0.54	0	0	0	0	0	0
8/13/2024 10:55	56504	ROCK_T2	0	0	0	0	0	0	0.11	0.17	0	0	0	0	0	0
8/13/2024 10:56	67603	WARW_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
8/13/2024 10:56	66502	SMAN_T2	1	1	0	0.2	0.2	0	0.49	0.54	0	0	0	0	0	0
8/13/2024 10:56	67605	WARW_T1	1	1	0	0.7	0.9	0.2	-0.73	-0.71	0	0	0	0	0	0
8/13/2024 10:56	66504	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/13/2024 10:56	55002	NEWP_T1	6	5	-1	1.03	0.9	-0.13	-0.14	-0.09	0	0	0	0	0	0
8/13/2024 10:57	10805	CHHI_T2	1	1	0	8	7.9	-0.1	-0.63	-0.6	2	2	0	1800	1800	0
8/13/2024 10:57	42802	SELI_T1	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
8/13/2024 10:58	43301	WATS_T2	1	1	0	0.2	0.1	-0.1	-0.39	-0.42	1	1	0	900	900	0
8/13/2024 10:58	42802	SELI_T1	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
8/13/2024 10:59	42802	SELI_T1	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
8/13/2024 10:59	53601	DALM_T2	1	1	0	0.3	0.6	0.3	-0.45	-0.43	1	1	0	900	900	0
8/13/2024 10:59	67804	WLAN_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/13/2024 10:59	64902	MILL_T2	0	0	0	0	0	0	-0.29	-0.28	1	1	0	900	900	0
8/13/2024 10:59	67805	WLAN_T1	0	0	0	0	0	0	-0.52	-0.56	0	0	0	0	0	0
8/13/2024 11:00	67605	WARW_T1	1	1	0	0.7	1	0.3	-0.73	-0.71	0	0	0	0	0	0
8/13/2024 11:00	24702	FLND_T2	0	1	1	0	0.3	0.3	0.82	0.85	1	1	0	1200	1200	0
8/13/2024 11:00	24703	FLND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 11:00	40201	BEGA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/13/2024 11:01	10805	CHHI_T2	1	1	0	8	7.9	-0.1	-0.63	-0.6	2	2	0	1800	1800	0
8/13/2024 11:01	56504	ROCK_T2	0	0	0	0	0	0	0.11	0.17	0	0	0	0	0	0
8/13/2024 11:01	60801	BUCK_T1	0	0	0	0	0	0	-0.26	-0.23	1	1	0	600	600	0
8/13/2024 11:01	56501	ROCK_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/13/2024 11:02	40101	HUNT_T2	1	1	0	0.3	0	-0.3	0.06	0.06	0	0	0	0	0	0
8/13/2024 11:02	10805	CHHI_T2	1	1	0	8	7.9	-0.1	-0.63	-0.6	2	2	0	1800	1800	0
8/13/2024 11:02	42903	MIDD_T2	1	2	1	0.1	0.25	0.15	0.87	0.81	1	1	0	1200	1200	0
8/13/2024 11:02	63501	HEID_TBK1-2	55	55	0	2.03	1.96	-0.07	0.62	0.63	1	1	0	900	900	0
8/13/2024 11:04	22805	HAUT_T2	0	1	1	0	0	0	-1.59	-1.57	1	1	0	1200	1200	0
8/13/2024 11:04	16402	MOPO_T1	1	2	1	0.3	0.5	0.2	0.32	0.3	0	0	0	0	0	0
8/13/2024 11:04	12701	MACU_T1	1	0	-1	0.1	0	-0.1	0.27	0.26	0	0	0	0	0	0
8/13/2024 11:05	40101	HUNT_T2	1	1	0	0.3	0	-0.3	0.06	0.06	0	0	0	0	0	0
8/13/2024 11:05	16402	MOPO_T1	1	2	1	0.3	0.5	0.2	0.32	0.3	0	0	0	0	0	0
8/13/2024 11:05	12703	MACU_T2	0	0	0	0	0	0	-0.57	-0.61	0	0	0	0	0	0
8/13/2024 11:05	47502	NECO_T1	4	4	0	0.18	0.33	0.15	1.2	1.2	0	0	0	0	0	0
8/13/2024 11:07	59001	MIFF_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
8/13/2024 11:07	12701	MACU_T1	1	0	-1	0.1	0	-0.1	0.26	0.27	0	0	0	0	0	0
8/13/2024 11:07	59002	MIFF_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
8/13/2024 11:07	41702	LOGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 11:07	59003	MIFF_T1	0	0	0	0	0	0	0.09	-0.04	0	0	0	0	0	0
8/13/2024 11:08	14802	TREI_T2	0	1	1	0	0.1	0.1	0.81	0.81	0	0	0	0	0	0
8/13/2024 11:08	65001	NEFF_T2	0	0	0	0	0	0	0.13	0.12	1	1	0	1200	1200	0
8/13/2024 11:08	14801	TREI_T2	3	5	2	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
8/13/2024 11:08	47502	NECO_T1	4	4	0	0.18	0.33	0.15	1.2	1.11	0	0	0	0	0	0
8/13/2024 11:09	13704	SCHN_T2	0	0	0	0	0	0	0.25	0.28	0	0	0	0	0	0
8/13/2024 11:10	59101	WALK_T2	1	1	0	0.2	0	-0.2	1.97	1.87	1	1	0	600	600	0
8/13/2024 11:11	42802	SELI_T1	0	0	0	0	0	0	-1.13	-0.93	0	0	0	0	0	0
8/13/2024 11:11	67203	TEHI_T1	9	15	6	0.57	0.47	-0.1	3.08	3.05	3	3	0	2100	2100	0
8/13/2024 11:11	44703	MUNC_T2	0	0	0	0	0	0	1.07	1.12	0	0	0	0	0	0
8/13/2024 11:12	40601	PIGR_T1	2	4	2	3.9	0.28	-3.62	0	0	0	0	0	0	0	0
8/13/2024 11:12	40603	PIGR_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/13/2024 11:12	59101	WALK_T2	1	1	0	0.2	0	-0.2	1.97	1.87	1	1	0	600	600	0
8/13/2024 11:12	42802	SELI_T1	0	0	0	0	0	0	-0.57	-0.47	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/13/2024 11:12	40602	PIGR_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
8/13/2024 11:12	21501	CEAV_T2	0	0	0	0	0	0	-0.38	-0.5	1	1	0	1200	1200	0
8/13/2024 11:13	42802	SELI_T1	0	0	0	0	0	0	-0.57	-0.47	0	0	0	0	0	0
8/13/2024 11:13	53601	DALM_T2	1	1	0	0.5	0.6	0.1	-0.43	-0.27	1	1	0	900	900	0
8/13/2024 11:14	40201	BEGA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/13/2024 11:15	46004	BERW_T2	0	1	1	0	0.2	0.2	0.56	0.59	0	0	0	0	0	0
8/13/2024 11:16	40201	BEGA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/13/2024 11:17	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	0.06	0.01	0	0	0	0	0	0
8/13/2024 11:18	64204	KINZ_T1	2	1	-1	0.4	1	0.6	0	0	0	0	0	0	0	0
8/13/2024 11:18	64201	KINZ_T1	0	0	0	0	0	0	-0.69	-0.66	4	4	0	2100	2100	0
8/13/2024 11:18	63501	HEID_TBK1-2	55	55	0	2.13	1.69	-0.44	0.63	0.63	1	1	0	900	900	0
8/13/2024 11:18	64203	KINZ_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
8/13/2024 11:19	64203	KINZ_T1	0	2	2	0	0.65	0.65	-0.26	1.03	6	6	0	4200	4200	0
8/13/2024 11:19	64204	KINZ_T1	2	1	-1	0.4	1	0.6	0	0	0	0	0	0	0	0
8/13/2024 11:19	64201	KINZ_T1	0	0	0	0	0	0	-0.69	-0.66	4	4	0	2100	2100	0
8/13/2024 11:20	12604	MACA_T1	1	0	-1	0.2	0	-0.2	0.58	0.58	0	0	0	0	0	0
8/13/2024 11:20	12606	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 11:20	12601	MACA_T1	1	2	1	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
8/13/2024 11:21	64203	KINZ_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
8/13/2024 11:21	64201	KINZ_T1	0	0	0	0	0	0	-0.69	-0.66	4	4	0	2100	2100	0
8/13/2024 11:21	64204	KINZ_T1	2	1	-1	0.4	1	0.6	0	0	0	0	0	0	0	0
8/13/2024 11:21	16201	POFA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 11:21	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	0.06	0.01	0	0	0	0	0	0
8/13/2024 11:21	16203	POFA_T2	4	5	1	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
8/13/2024 11:22	64203	KINZ_T1	0	2	2	0	0.65	0.65	0.52	0.28	3	3	0	2100	2100	0
8/13/2024 11:22	64204	KINZ_T1	2	1	-1	0.4	1	0.6	0	0	0	0	0	0	0	0
8/13/2024 11:22	12701	MACU_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
8/13/2024 11:23	41002	LAUR_T2	1	1	0	1.2	1.3	0.1	-0.83	-0.81	0	0	0	0	0	0
8/13/2024 11:23	59003	MIFF_T1	0	1	1	0	0.2	0.2	-0.04	-0.82	0	0	0	0	0	0
8/13/2024 11:23	59002	MIFF_T1	4	4	0	0.15	0.33	0.18	0	0	0	0	0	0	0	0
8/13/2024 11:23	59001	MIFF_T1	1	2	1	1	0.85	-0.15	0	0	0	0	0	0	0	0
8/13/2024 11:24	58402	MORO_T1	0	0	0	0	0	0	-0.75	-0.72	3	3	0	2400	2400	0
8/13/2024 11:25	22903	HARW_T1	7	24	17	0.26	1.07	0.81	0	0	0	0	0	0	0	0
8/13/2024 11:25	14802	TREI_T2	1	1	0	0.1	0.2	0.1	0.81	0.85	0	0	0	0	0	0
8/13/2024 11:25	14801	TREI_T2	4	4	0	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
8/13/2024 11:25	13704	SCHN_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
8/13/2024 11:25	22901	HARW_T1	0	1	1	0	0.3	0.3	-0.01	-0.11	1	1	0	1200	1200	0
8/13/2024 11:25	15201	SFAR_T1	0	0	0	0	0	0	0.53	0.58	2	2	0	1800	1800	0
8/13/2024 11:25	14705	TREX_T1	0	0	0	0	0	0	-0.02	0.07	0	0	0	0	0	0
8/13/2024 11:27	67203	TEHI_T1	13	15	2	0.48	1.2	0.72	0	0	0	0	0	0	0	0
8/13/2024 11:27	67201	TEHI_T1	0	1	1	0	0.7	0.7	0.87	0.91	2	2	0	1500	1500	0
8/13/2024 11:28	10801	CHHI_T1	4	4	0	0.4	0.53	0.13	-0.17	-0.11	1	1	0	900	900	0
8/13/2024 11:28	66502	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/13/2024 11:28	66504	SMAN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/13/2024 11:28	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/13/2024 11:29	53601	DALM_T2	1	0	-1	0.6	0	-0.6	-0.27	-0.27	1	1	0	900	900	0
8/13/2024 11:29	14802	TREI_T2	1	1	0	0.1	0.2	0.1	0.81	0.85	0	0	0	0	0	0
8/13/2024 11:29	14801	TREI_T2	4	4	0	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
8/13/2024 11:29	51603	DUKE_T1	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
8/13/2024 11:30	43304	WATS_T2	0	0	0	0	0	0	-0.23	-0.19	0	0	0	0	0	0
8/13/2024 11:30	16005	DORN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 11:30	43301	WATS_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/13/2024 11:31	43401	BENT_T1	111	112	1	1.13	0.83	-0.3	0	0	0	0	0	0	0	0
8/13/2024 11:31	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 11:31	40101	HUNT_T2	0	0	0	0	0	0	0.01	-0.26	0	0	0	0	0	0
8/13/2024 11:31	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.76	3	3	0	1800	1800	0
8/13/2024 11:31	29402	BELT_T1	1	1	0	7	7	0	0	0	0	0	0	0	0	0
8/13/2024 11:32	48902	FOSP_T2	0	0	0	0	0	0	-0.85	-1.03	2	2	0	2400	2400	0
8/13/2024 11:33	40101	HUNT_T2	0	0	0	0	0	0	0.01	-0.26	0	0	0	0	0	0
8/13/2024 11:34	48902	FOSP_T2	0	0	0	0	0	0	-0.85	-1.03	2	2	0	2400	2400	0
8/13/2024 11:34	40101	HUNT_T2	0	0	0	0	0	0	0.02	-0.52	0	0	0	0	0	0
8/13/2024 11:35	26401	INOR_T1	4	2	-2	2.58	3.95	1.37	0	0	0	0	0	0	0	0
8/13/2024 11:35	64204	KINZ_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
8/13/2024 11:35	26402	INOR_T1	1	1	0	0.6	0.7	0.1	-0.01	-0.01	1	1	0	600	600	0
8/13/2024 11:35	64203	KINZ_T1	2	2	0	0.95	0.6	-0.35	0.52	0.28	3	3	0	2100	2100	0
8/13/2024 11:36	12701	MACU_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
8/13/2024 11:37	12704	MACU_T1	0	0	0	0	0	0	-1.19	-1.25	1	1	0	600	600	0
8/13/2024 11:37	12701	MACU_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
8/13/2024 11:37	58402	MORO_T1	0	0	0	0	0	0	-0.72	0.27	3	2	-1	2400	1500	-900
8/13/2024 11:38	28303	NEWF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 11:40	13704	SCHN_T2	0	1	1	0	0	0	0.27	0.31	0	0	0	0	0	0
8/13/2024 11:44	24104	EHAZ_T1	0	0	0	0	0	0	-0.74	-0.72	1	1	0	1200	1200	0
8/13/2024 11:44	29402	BELT_T1	1	1	0	7	7	0	0	0	0	0	0	0	0	0
8/13/2024 11:44	24101	EHAZ_T1	0	18	18	0	0.2	0.2	0	0	0	0	0	0	0	0
8/13/2024 11:44	24105	EHAZ_T1	4	4	0	6.73	6.88	0.15	0	0	0	0	0	0	0	0
8/13/2024 11:46	61501	EPET_T2	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
8/13/2024 11:46	61506	EPET_T2	0	0	0	0	0	0	-1	-0.95	2	2	0	1800	1800	0
8/13/2024 11:46	61505	EPET_T1	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
8/13/2024 11:47	52004	LING_T2	3	3	0	3.87	4.33	0.46	0	0	0	0	0	0	0	0
8/13/2024 11:47	61501	EPET_T2	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
8/13/2024 11:47	52402	GRPA_T2	8	8	0	0.34	0.43	0.09	-0.69	-0.7	0	0	0	0	0	0
8/13/2024 11:47	63602	LETO_T1	0	1	1	0	0.2	0.2	0.21	0.24	0	0	0	0	0	0
8/13/2024 11:47	46802	HEPB_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
8/13/2024 11:47	52002	LING_T2	0	0	0	0	0	0	0.74	0.89	0	0	0	0	0	0
8/13/2024 11:47	61504	EPET_T2	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
8/13/2024 11:47	63601	LETO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/13/2024 11:47	52403	GRPA_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
8/13/2024 11:48	44903	SCOT_T1	0	0	0	0	0	0	0.74	0.76	0	0	0	0	0	0
8/13/2024 11:49	52403	GRPA_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
8/13/2024 11:49	52404	GRPA_T2	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
8/13/2024 11:49	52402	GRPA_T2	8	8	0	0.34	0.43	0.09	-0.69	-0.7	0	0	0	0	0	0
8/13/2024 11:49	52004	LING_T2	3	3	0	3.87	4.33	0.46	0.5	0.51	0	0	0	0	0	0
8/13/2024 11:50	63602	LETO_T1	0	1	1	0	0.2	0.2	0.21	0.24	0	0	0	0	0	0
8/13/2024 11:50	63601	LETO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/13/2024 11:51	52403	GRPA_T2	1	1	0	0.4	0.1	-0.3	0.63	0.51	0	0	0	0	0	0
8/13/2024 11:51	52004	LING_T2	3	3	0	3.87	4.33	0.46	0.5	0.51	0	0	0	0	0	0
8/13/2024 11:51	52402	GRPA_T2	8	8	0	0.34	0.43	0.09	0	0	0	0	0	0	0	0
8/13/2024 11:51	52002	LING_T2	0	0	0	0	0	0	0.37	0.45	0	0	0	0	0	0
8/13/2024 11:53	66703	STRA_T1	0	0	0	0	0	0	0.52	0.45	0	0	0	0	0	0
8/13/2024 11:53	44703	MUNC_T2	0	0	0	0	0	0	1.21	1.17	0	0	0	0	0	0
8/13/2024 11:54	65402	MARI_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/13/2024 11:54	23002	SAJO_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/13/2024 11:54	23001	SAJO_T1	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
8/13/2024 11:54	57306	MOAL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/13/2024 11:54	57302	MOAL_T2	0	0	0	0	0	0	-1.08	-1.04	1	1	0	1200	1200	0
8/13/2024 11:54	57303	MOAL_T2	1	1	0	7.8	7.1	-0.7	0	0	0	0	0	0	0	0
8/13/2024 11:56	65904	SAKR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/13/2024 11:56	48302	ORWI_T2	1	1	0	0.3	0.5	0.2	-0.27	-0.3	0	0	0	0	0	0
8/13/2024 11:56	65901	SAKR_T2	1	1	0	7.7	8.1	0.4	-0.9	-0.79	2	2	0	1500	1500	0
8/13/2024 11:57	57104	SPHI_T2	0	1	1	0	0.1	0.1	-0.4	-0.39	0	0	0	0	0	0
8/13/2024 11:57	57101	SPHI_T2	6	6	0	0.68	1.02	0.34	0	0	0	0	0	0	0	0
8/13/2024 11:57	54203	PENN_T1	5	18	13	0.42	0.48	0.06	0	0	0	0	0	0	0	0
8/13/2024 11:57	59101	WALK_T2	0	1	1	0	0.3	0.3	2.07	1.81	1	1	0	600	600	0
8/13/2024 11:57	57106	SPHI_T2	3	4	1	0.7	0.73	0.03	0	0	0	0	0	0	0	0
8/13/2024 11:57	22905	HARW_T1	0	1	1	0	0	0	-0.56	-0.55	0	0	0	0	0	0
8/13/2024 11:57	22901	HARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/13/2024 11:57	54201	PENN_T1	3	5	2	1.2	1.16	-0.04	-0.59	-0.51	0	0	0	0	0	0
8/13/2024 11:57	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 11:57	22903	HARW_T1	24	24	0	1.77	2.55	0.78	0	0	0	0	0	0	0	0
8/13/2024 11:58	22101	EDEL_T2	1	1	0	0.8	0.7	-0.1	0.84	0.87	1	1	0	1200	1200	0
8/13/2024 11:59	61801	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 11:59	61803	EELI_T2	0	0	0	0	0	0	0.56	0.62	1	1	0	600	600	0
8/13/2024 12:00	47203	FAXO_T2	0	0	0	0	0	0	-1.19	-1.22	1	1	0	1200	1200	0
8/13/2024 12:00	60201	ATGL_T2	0	0	0	0	0	0	0.18	0.21	1	1	0	300	300	0
8/13/2024 12:02	45501	DERR_T2	2	2	0	0.7	0.3	-0.4	1.31	1.23	2	2	0	1800	1800	0
8/13/2024 12:02	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 12:02	28702	HAML_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
8/13/2024 12:02	46506	LOHA_T1	64	48	-16	0.27	0.2	-0.07	-1.92	-1.9	2	2	0	2100	2100	0
8/13/2024 12:02	46503	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 12:02	45502	DERR_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/13/2024 12:02	28701	HAML_T2	1	2	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
8/13/2024 12:02	44801	EDAN_T2	6	9	3	0.48	0.24	-0.24	-1.38	-1.37	0	0	0	0	0	0
8/13/2024 12:02	55508	HERS_T2	2	2	0	1.05	0.85	-0.2	-2.28	-2.24	1	1	0	1200	1200	0
8/13/2024 12:03	46503	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 12:03	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 12:03	55508	HERS_T2	2	2	0	1.05	0.85	-0.2	-2.28	-2.24	1	1	0	1200	1200	0
8/13/2024 12:03	46506	LOHA_T1	64	48	-16	0.27	0.2	-0.07	-1.92	-1.9	2	2	0	2100	2100	0
8/13/2024 12:04	11406	FARM_T1	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
8/13/2024 12:04	11402	FARM_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/13/2024 12:04	54505	ENOL_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/13/2024 12:04	54504	ENOL_T2	0	1	1	0	0.5	0.5	-0.86	-0.82	1	1	0	600	600	0
8/13/2024 12:05	46503	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 12:05	46506	LOHA_T1	64	48	-16	0.27	0.2	-0.07	-1.92	-1.9	2	2	0	2100	2100	0
8/13/2024 12:05	13501	MCMI_T1	0	0	0	0	0	0	0.26	0.3	0	0	0	0	0	0
8/13/2024 12:05	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 12:06	46503	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 12:06	63804	HEMP_T1	1	1	0	6.2	6.3	0.1	-0.32	-0.91	0	0	0	0	0	0
8/13/2024 12:06	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 12:06	26803	JAFR_T1	0	0	0	0	0	0	0.12	0.13	1	1	0	900	900	0
8/13/2024 12:06	63801	HEMP_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/13/2024 12:06	46506	LOHA_T1	64	48	-16	0.27	0.2	-0.07	-3.84	-3.8	4	4	0	4200	4200	0
8/13/2024 12:06	64802	MONE_T2	2	1	-1	0.3	0.2	-0.1	0.2	0.21	0	0	0	0	0	0
8/13/2024 12:06	63803	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/13/2024 12:07	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 12:07	42002	MNVL_T2	1	1	0	3.7	3.3	-0.4	0.11	0.15	0	0	0	0	0	0
8/13/2024 12:07	42001	MNVL_T2	38	30	-8	0.3	0.3	0	0	0	0	0	0	0	0	0
8/13/2024 12:07	46503	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 12:07	64802	MONE_T2	2	1	-1	0.3	0.2	-0.1	0.21	0.23	0	0	0	0	0	0
8/13/2024 12:07	46506	LOHA_T1	64	48	-16	0.27	0.2	-0.07	-1.9	-1.91	2	2	0	2100	2100	0
8/13/2024 12:08	13503	MCMI_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
8/13/2024 12:09	56504	ROCK_T2	1	1	0	0.1	0.1	0	0.26	0.24	0	0	0	0	0	0
8/13/2024 12:09	12605	MACA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/13/2024 12:09	56503	ROCK_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/13/2024 12:09	56501	ROCK_T2	7	5	-2	0.59	0.78	0.19	0	0	0	0	0	0	0	0
8/13/2024 12:09	12601	MACA_T1	1	2	1	1.7	0.8	-0.9	0	0	0	0	0	0	0	0
8/13/2024 12:09	12604	MACA_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/13/2024 12:11	57003	WHHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/13/2024 12:11	57004	WHHI_T2	0	0	0	0	0	0	0.03	0.14	0	0	0	0	0	0
8/13/2024 12:12	13704	SOHN_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
8/13/2024 12:12	56504	ROCK_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/13/2024 12:12	55101	WERT_T1	0	0	0	0	0	0	-1.73	-1.79	4	4	0	3300	3300	0
8/13/2024 12:12	42501	ALTA_T2	0	0	0	0	0	0	-0.84	-0.94	1	1	0	600	600	0
8/13/2024 12:12	46004	BERW_T2	0	0	0	0	0	0	0.6	0.53	0	0	0	0	0	0
8/13/2024 12:12	56501	ROCK_T2	7	5	-2	0.59	0.78	0.19	-0.84	-0.71	0	0	0	0	0	0
8/13/2024 12:12	56503	ROCK_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/13/2024 12:13	42902	MIDD_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/13/2024 12:13	11104	EGYP_T1	5	5	0	0.38	0.6	0.22	2	2.04	0	0	0	0	0	0
8/13/2024 12:13	11102	EGYP_T1	3	1	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/13/2024 12:13	56504	ROCK_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/13/2024 12:13	56501	ROCK_T2	7	5	-2	0.59	0.78	0.19	-0.84	-0.71	0	0	0	0	0	0
8/13/2024 12:13	42903	MIDD_T2	0	2	2	0	1.45	1.45	0.17	0.05	1	1	0	1200	1200	0
8/13/2024 12:13	56503	ROCK_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/13/2024 12:14	55101	WERT_T1	0	0	0	0	0	0	-1.73	-1.79	4	4	0	3300	3300	0
8/13/2024 12:14	42903	MIDD_T2	0	2	2	0	1.45	1.45	0	0	0	0	0	0	0	0
8/13/2024 12:14	42902	MIDD_T2	0	2	2	0	0.15	0.15	0.2	0.13	0	0	0	0	0	0
8/13/2024 12:15	45501	DERR_T2	2	1	-1	0.4	0.4	0	1.23	1.26	2	2	0	1800	1800	0
8/13/2024 12:16	23401	HONE_T2	0	1	1	0	0.1	0.1	-0.19	-0.26	0	0	0	0	0	0
8/13/2024 12:16	53601	DALM_T2	1	1	0	0.9	0.4	-0.5	-0.46	-0.43	1	1	0	900	900	0
8/13/2024 12:16	21504	CEAV_T1	0	0	0	0	0	0	-0.47	-0.45	1	1	0	1200	1200	0
8/13/2024 12:17	14203	EALL_T1	0	0	0	0	0	0	0.36	0.41	1	1	0	1200	1200	0
8/13/2024 12:18	11102	EGYP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/13/2024 12:18	52402	GRPA_T2	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
8/13/2024 12:18	11104	EGYP_T1	5	5	0	0.6	0.98	0.38	1	1.02	0	0	0	0	0	0
8/13/2024 12:18	52403	GRPA_T2	0	1	1	0	0.3	0.3	0.31	0.41	0	0	0	0	0	0
8/13/2024 12:19	63601	LETO_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/13/2024 12:19	63602	LETO_T1	1	2	1	0.2	0.4	0.2	0.14	0.17	0	0	0	0	0	0
8/13/2024 12:19	17805	GILB_T2	0	1	1	0	0	0	0.83	0.7	0	0	0	0	0	0
8/13/2024 12:19	17804	GILB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/13/2024 12:20	63401	HONY_T1	0	0	0	0	0	0	0.46	0.51	1	1	0	600	600	0
8/13/2024 12:22	52403	GRPA_T2	0	1	1	0	0.3	0.3	0.41	0.31	0	0	0	0	0	0
8/13/2024 12:22	64204	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/13/2024 12:22	64203	KINZ_T1	1	2	1	1.1	1	-0.1	0.51	0.61	6	6	0	4200	4200	0
8/13/2024 12:22	52402	GRPA_T2	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
8/13/2024 12:23	48302	ORWI_T2	1	1	0	0.5	0.5	0	-0.32	-0.32	0	0	0	0	0	0
8/13/2024 12:24	42002	MNVL_T2	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0	0
8/13/2024 12:24	56504	ROCK_T2	1	1	0	0.1	0.2	0.1	0.24	0.29	0	0	0	0	0	0
8/13/2024 12:24	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/13/2024 12:24	42001	MNVL_T2	29	17	-12	0.31	0.24	-0.07	0.09	0.08	0	0	0	0	0	0
8/13/2024 12:24	56501	ROCK_T2	5	5	0	0.68	0.72	0.04	0	0	0	0	0	0	0	0
8/13/2024 12:25	66703	STRA_T1	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
8/13/2024 12:25	25801	SUTR_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/13/2024 12:27	56501	ROCK_T2	5	5	0	0.68	0.72	0.04	-0.71	-0.68	0	0	0	0	0	0
8/13/2024 12:27	56504	ROCK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/13/2024 12:27	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/13/2024 12:28	43802	SWIL_T1	0	0	0	0	0	0	0.48	0.45	3	3	0	1800	1800	0
8/13/2024 12:28	43801	SWIL_T1	1	3	2	5.5	2.65	-2.85	0	0	0	0	0	0	0	0
8/13/2024 12:29	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 12:29	61701	ELIZ_T1	2	2	0	2.15	2.35	0.2	0	0	0	0	0	0	0	0
8/13/2024 12:29	29402	BELT_T1	6	9	3	1.78	1.5	-0.28	0	0	0	0	0	0	0	0
8/13/2024 12:29	61703	ELIZ_T1	0	0	0	0	0	0	-2.27	-2.34	2	2	0	2100	2100	0
8/13/2024 12:29	11901	ETEX_T2	0	0	0	0	0	0	0.6	0.62	0	0	0	0	0	0
8/13/2024 12:30	11903	ETEX_T1	0	1	1	0	0.1	0.1	1.03	0.98	0	0	0	0	0	0
8/13/2024 12:31	40101	HUNT_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
8/13/2024 12:32	61703	ELIZ_T1	0	0	0	0	0	0	-2.27	-2.34	2	2	0	2100	2100	0
8/13/2024 12:32	61701	ELIZ_T1	2	2	0	2.35	1.65	-0.7	0	0	0	0	0	0	0	0
8/13/2024 12:32	40101	HUNT_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
8/13/2024 12:33	63601	LETO_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/13/2024 12:33	44801	EDAN_T2	6	8	2	0.23	0.51	0.28	-2.81	-2.81	0	0	0	0	0	0
8/13/2024 12:33	63602	LETO_T1	2	0	-2	0.4	0	-0.4	0.17	0.19	0	0	0	0	0	0
8/13/2024 12:34	61701	ELIZ_T1	2	2	0	2.35	1.65	-0.7	0	0	0	0	0	0	0	0
8/13/2024 12:34	61703	ELIZ_T1	0	0	0	0	0	0	-2.27	-2.34	2	2	0	2100	2100	0
8/13/2024 12:34	40101	HUNT_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
8/13/2024 12:35	17805	GILB_T2	0	1	1	0	0	0	0.35	0.39	0	0	0	0	0	0
8/13/2024 12:35	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 12:35	17804	GILB_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/13/2024 12:36	24204	PROV_T3	1	1	0	7.1	6.8	-0.3	0	0	0	0	0	0	0	0
8/13/2024 12:36	24201	PROV_T3	1	1	0	8.4	8.1	-0.3	-1.06	-1.05	1	1	0	1200	1200	0
8/13/2024 12:40	16201	POFA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 12:40	16203	POFA_T2	5	8	3	0.16	0.28	0.12	0	0	0	0	0	0	0	0
8/13/2024 12:41	21701	SUBU_T1	1	1	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
8/13/2024 12:41	21705	SUBU_T1	1	1	0	6.3	6.1	-0.2	0.02	0.01	1	1	0	1200	1200	0
8/13/2024 12:42	10705	CATA_T2	0	1	1	0	0.8	0.8	0.6	0.59	0	0	0	0	0	0
8/13/2024 12:44	21206	ECAR_T2	6	1	-5	1.52	6.1	4.58	0	0	0	0	0	0	0	0
8/13/2024 12:44	21204	ECAR_T2	1	1	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
8/13/2024 12:46	17804	GILB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/13/2024 12:46	17805	GILB_T2	1	0	-1	0.3	0	-0.3	0.39	0.42	0	0	0	0	0	0
8/13/2024 12:46	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 12:47	11507	FREE_T2	1	1	0	0.9	1.4	0.5	0.91	1.1	0	0	0	0	0	0
8/13/2024 12:52	16203	POFA_T2	8	6	-2	0.24	0.32	0.08	0	0	0	0	0	0	0	0
8/13/2024 12:54	21703	SUBU_T1	0	0	0	0	0	0	1.11	1.1	0	0	0	0	0	0
8/13/2024 12:54	21705	SUBU_T1	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
8/13/2024 12:54	21701	SUBU_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
8/13/2024 12:56	21704	SUBU_T1	0	0	0	0	0	0	-1.79	-1.93	2	2	0	2400	2400	0
8/13/2024 12:56	21705	SUBU_T1	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
8/13/2024 12:56	13901	SEID_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/13/2024 12:56	21701	SUBU_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
8/13/2024 12:56	13905	SEID_T1	0	1	1	0	0.1	0.1	-0.53	-0.53	1	1	0	1200	1200	0
8/13/2024 13:02	13705	SOHN_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
8/13/2024 13:02	13702	SOHN_T1	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
8/13/2024 13:04	11507	FREE_T2	1	0	-1	1.4	0	-1.4	1.1	1.12	0	0	0	0	0	0
8/13/2024 13:09	63804	HEMP_T1	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
8/13/2024 13:09	63802	HEMP_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
8/13/2024 13:09	63401	HONY_T1	0	0	0	0	0	0	0.48	0.54	1	1	0	600	600	0
8/13/2024 13:09	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 13:09	64701	LITI_T1	0	0	0	0	0	0	0.89	0.97	0	0	0	0	0	0
8/13/2024 13:09	61302	EARL_T1	0	0	0	0	0	0	0.63	0.56	3	3	0	2700	2700	0
8/13/2024 13:09	64501	LAVI_T1	0	0	0	0	0	0	0.22	0.15	0	0	0	0	0	0
8/13/2024 13:09	63305	GREE_T1	0	0	0	0	0	0	-1.6	-1.66	1	1	0	900	900	0
8/13/2024 13:09	64902	MILL_T2	0	0	0	0	0	0	-1.58	-1.53	2	2	0	1800	1800	0
8/13/2024 13:09	65207	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 13:09	67002	STHI_T2	0	0	0	0	0	0	1.15	1.16	0	0	0	0	0	0
8/13/2024 13:09	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/13/2024 13:10	67002	STHI_T2	0	0	0	0	0	0	1.15	1.16	0	0	0	0	0	0
8/13/2024 13:10	44301	BEAV_T2	2	1	-1	1.55	2.5	0.95	0	0	0	0	0	0	0	0
8/13/2024 13:10	45501	DERR_T2	1	6	5	0.6	0.8	0.2	1.21	1.36	2	2	0	1800	1800	0
8/13/2024 13:10	47202	FAXO_T2	0	0	0	0	0	0	-0.64	-0.61	0	0	0	0	0	0
8/13/2024 13:10	45502	DERR_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/13/2024 13:10	44703	MUNC_T2	0	0	0	0	0	0	1.02	1	0	0	0	0	0	0
8/13/2024 13:10	46801	HEPB_T2	2	2	0	1.1	0.95	-0.15	0.15	0.16	0	0	0	0	0	0
8/13/2024 13:10	46803	HEPB_T2	1	0	-1	0.4	0	-0.4	1.26	1.3	0	0	0	0	0	0
8/13/2024 13:11	15604	NSTR_T1	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
8/13/2024 13:11	65601	QVIL_T2	0	0	0	0	0	0	-0.41	-0.4	1	1	0	900	900	0
8/13/2024 13:12	67303	WYOM_T2	0	0	0	0	0	0	0.52	0.45	0	0	0	0	0	0
8/13/2024 13:12	65603	QVIL_T2	0	0	0	0	0	0	-0.08	-0.05	0	0	0	0	0	0
8/13/2024 13:12	42801	SELI_T1	0	0	0	0	0	0	-1.66	-1.58	1	1	0	1200	1200	0
8/13/2024 13:12	67002	STHI_T2	0	0	0	0	0	0	1.15	1.16	0	0	0	0	0	0
8/13/2024 13:13	46203	DANV_T2	0	0	0	0	0	0	-0.38	-0.31	0	0	0	0	0	0
8/13/2024 13:13	46206	DANV_T2	3	18	15	1.27	0.32	-0.95	0	0	0	0	0	0	0	0
8/13/2024 13:15	44801	EDAN_T2	5	5	0	0.52	0.74	0.22	-1.35	-1.34	0	0	0	0	0	0
8/13/2024 13:16	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 13:16	10102	ALLE_T2	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
8/13/2024 13:17	63303	GREE_T1	0	0	0	0	0	0	0.19	0.14	2	2	0	1800	1800	0
8/13/2024 13:17	17805	GILB_T2	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
8/13/2024 13:18	11903	ETEX_T1	0	0	0	0	0	0	0.97	1.04	0	0	0	0	0	0
8/13/2024 13:19	14203	EALL_T1	0	0	0	0	0	0	0.4	0.34	1	1	0	1200	1200	0
8/13/2024 13:20	64201	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/13/2024 13:20	64204	KINZ_T1	3	4	1	0.47	0.38	-0.09	0	0	0	0	0	0	0	0
8/13/2024 13:20	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 13:20	40901	JESH_T1	1	0	-1	2.1	2	-0.1	0	0	0	0	0	0	0	0
8/13/2024 13:20	64203	KINZ_T1	2	2	0	1.6	1.75	0.15	0.17	0.32	3	3	0	2100	2100	0
8/13/2024 13:20	40902	JESH_T1	0	0	0	0	0	0	-0.08	-0.64	1	2	1	600	1200	600
8/13/2024 13:21	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 13:21	40901	JESH_T1	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
8/13/2024 13:21	40902	JESH_T1	0	0	0	0	0	0	-0.64	-0.61	1	2	1	600	1200	600
8/13/2024 13:22	16203	POFA_T2	1	3	2	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
8/13/2024 13:22	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 13:23	64101	REFR_T1	0	0	0	0	0	0	0.34	0.37	0	0	0	0	0	0
8/13/2024 13:24	64101	REFR_T1	0	0	0	0	0	0	0.34	0.37	0	0	0	0	0	0
8/13/2024 13:25	64101	REFR_T1	0	0	0	0	0	0	0.67	0.74	0	0	0	0	0	0
8/13/2024 13:26	10602	BGL_T2	6	7	1	1.47	2.4	0.93	1.82	1.61	0	0	0	0	0	0
8/13/2024 13:26	64101	REFR_T1	0	0	0	0	0	0	1.68	1.85	0	0	0	0	0	0
8/13/2024 13:26	65604	QVIL_T2	0	0	0	0	0	0	0.65	0.69	0	0	0	0	0	0
8/13/2024 13:27	45501	DERR_T2	2	7	5	0.8	0.42	-0.38	1.36	1.36	2	2	0	1800	1800	0
8/13/2024 13:27	45502	DERR_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/13/2024 13:27	64101	REFR_T1	0	0	0	0	0	0	0.67	0.74	0	0	0	0	0	0
8/13/2024 13:28	45501	DERR_T2	2	7	5	0.8	0.42	-0.38	1.36	1.36	2	2	0	1800	1800	0
8/13/2024 13:28	45502	DERR_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/13/2024 13:29	44301	BEAV_T2	1	4	3	2.8	1.35	-1.45	0.56	0.65	2	2	0	1500	1500	0
8/13/2024 13:29	61306	EARL_T1	0	0	0	0	0	0	-1.17	-1.17	0	0	0	0	0	0
8/13/2024 13:30	44301	BEAV_T2	1	4	3	2.5	1.15	-1.35	0	0	0	0	0	0	0	0
8/13/2024 13:32	44301	BEAV_T2	1	4	3	2.5	1.15	-1.35	0.56	0.65	2	2	0	1500	1500	0
8/13/2024 13:33	60801	BUCK_T1	0	0	0	0	0	0	-0.25	-0.25	1	1	0	600	600	0
8/13/2024 13:33	67702	WERN_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
8/13/2024 13:33	17804	GILB_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/13/2024 13:33	67703	WERN_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
8/13/2024 13:33	17805	GILB_T2	0	0	0	0	0	0	0.43	0.47	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/13/2024 13:33	67701	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 13:33	63501	HEID_TBK1-2	56	55	-1	1.61	1.83	0.22	0.68	0.7	1	1	0	900	900	0
8/13/2024 13:35	67701	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 13:35	67703	WERN_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
8/13/2024 13:35	67702	WERN_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
8/13/2024 13:35	63501	HEID_TBK1-2	56	55	-1	1.61	1.83	0.22	0.68	0.7	1	1	0	900	900	0
8/13/2024 13:36	40902	JESH_T1	0	0	0	0	0	0	-0.61	-0.61	2	2	0	1200	1200	0
8/13/2024 13:36	40901	JESH_T1	1	1	0	2.1	1.6	-0.5	0	0	0	0	0	0	0	0
8/13/2024 13:36	66701	STRA_T1	0	0	0	0	0	0	0.48	0.52	1	1	0	600	600	0
8/13/2024 13:37	66502	SMAN_T2	1	1	0	0.7	0.4	-0.3	0.66	0.69	0	0	0	0	0	0
8/13/2024 13:37	20802	LOPO_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	600	600	0
8/13/2024 13:37	66501	SMAN_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
8/13/2024 13:39	44202	POIN_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/13/2024 13:39	65501	MOJO_T1	0	0	0	0	0	0	-0.71	-0.64	1	1	0	900	900	0
8/13/2024 13:39	44203	POIN_T2	6	1	-5	0.45	0	-0.45	-0.68	-0.66	3	3	0	3300	3300	0
8/13/2024 13:41	67001	STHI_T2	0	0	0	0	0	0	0.43	0.46	0	0	0	0	0	0
8/13/2024 13:42	42802	SELI_T1	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
8/13/2024 13:48	13702	SCHN_T1	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
8/13/2024 13:48	11101	EGYP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/13/2024 13:48	11104	EGYP_T1	5	6	1	1.06	1.05	-0.01	2.06	2.14	0	0	0	0	0	0
8/13/2024 13:48	64305	LINC_T1	1	1	0	0.8	0.8	0	0.56	0.53	0	0	0	0	0	0
8/13/2024 13:48	67703	WERN_T2	1	0	-1	0.4	0	-0.4	-0.01	-0.01	1	1	0	900	900	0
8/13/2024 13:48	11102	EGYP_T1	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/13/2024 13:50	65501	MOJO_T1	0	0	0	0	0	0	-0.71	-0.64	1	1	0	900	900	0
8/13/2024 13:50	63804	HEMP_T1	1	1	0	6.6	6.6	0	-0.73	-0.9	0	0	0	0	0	0
8/13/2024 13:51	64305	LINC_T1	1	1	0	0.8	0.8	0	0.53	0.56	0	0	0	0	0	0
8/13/2024 13:51	63401	HONY_T1	0	0	0	0	0	0	0.58	0.54	1	1	0	600	600	0
8/13/2024 13:51	10901	COOP_T2	0	0	0	0	0	0	0.22	0.32	1	1	0	1200	1200	0
8/13/2024 13:52	64203	KINZ_T1	2	2	0	1.75	1.5	-0.25	0.09	0.24	3	3	0	2100	2100	0
8/13/2024 13:52	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 13:52	64201	KINZ_T1	2	1	-1	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
8/13/2024 13:52	64204	KINZ_T1	4	4	0	0.38	0.2	-0.18	0	0	0	0	0	0	0	0
8/13/2024 13:52	63401	HONY_T1	0	0	0	0	0	0	0.58	0.54	1	1	0	600	600	0
8/13/2024 13:53	13901	SEID_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 13:53	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 13:53	15604	NSTR_T1	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
8/13/2024 13:53	13905	SEID_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/13/2024 13:56	14802	TREI_T2	0	0	0	0	0	0	1.06	1.06	0	0	0	0	0	0
8/13/2024 13:56	14801	TREI_T2	1	2	1	0.9	0.35	-0.55	0.39	0.38	0	0	0	0	0	0
8/13/2024 13:56	45602	WOOL_T1	0	2	2	0	0.15	0.15	1	1.04	0	0	0	0	0	0
8/13/2024 13:56	14603	SWHI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/13/2024 13:56	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 13:57	14603	SWHI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/13/2024 13:57	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 13:58	46206	DANV_T2	35	24	-11	0.44	0.54	0.1	1.65	1.67	2	2	0	2100	2100	0
8/13/2024 13:59	15703	TANN_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
8/13/2024 13:59	45602	WOOL_T1	0	2	2	0	0.15	0.15	1	1.04	0	0	0	0	0	0
8/13/2024 13:59	15702	TANN_T2	0	1	1	0	0.5	0.5	-0.02	0	0	0	0	0	0	0
8/13/2024 14:00	45602	WOOL_T1	2	1	-1	0.15	0.3	0.15	1	1.04	0	0	0	0	0	0
8/13/2024 14:02	46206	DANV_T2	24	22	-2	0.55	0.53	-0.02	1.65	1.67	2	2	0	2100	2100	0
8/13/2024 14:03	46506	LOHA_T1	326	416	90	0.33	0.35	0.02	0	0	0	0	0	0	0	0
8/13/2024 14:03	46501	LOHA_T1	0	1	1	0	0	0	0.54	0.43	1	1	0	1200	1200	0
8/13/2024 14:03	11102	EGYP_T1	2	1	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/13/2024 14:03	64305	LINC_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
8/13/2024 14:03	11104	EGYP_T1	6	6	0	1.05	1.48	0.43	1.07	1.08	0	0	0	0	0	0
8/13/2024 14:03	21705	SUBU_T1	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
8/13/2024 14:03	64301	LINC_T1	0	0	0	0	0	0	0.11	0.06	1	1	0	600	600	0
8/13/2024 14:03	21701	SUBU_T1	1	1	0	6.8	7	0.2	0	0	0	0	0	0	0	0
8/13/2024 14:03	46503	LOHA_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/13/2024 14:03	46504	LOHA_T1	2	2	0	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/13/2024 14:06	46503	LOHA_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/13/2024 14:06	46504	LOHA_T1	2	2	0	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/13/2024 14:06	46506	LOHA_T1	326	416	90	0.33	0.35	0.02	0	0	0	0	0	0	0	0
8/13/2024 14:06	46501	LOHA_T1	0	1	1	0	0	0	0.43	0.47	1	1	0	1200	1200	0
8/13/2024 14:07	46501	LOHA_T1	0	1	1	0	0	0	0.43	0.47	1	1	0	1200	1200	0
8/13/2024 14:07	46506	LOHA_T1	326	416	90	0.33	0.35	0.02	0	0	0	0	0	0	0	0
8/13/2024 14:07	46503	LOHA_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/13/2024 14:07	46504	LOHA_T1	2	2	0	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/13/2024 14:10	65001	NEFF_T2	0	0	0	0	0	0	0.11	0.16	1	1	0	1200	1200	0
8/13/2024 14:10	65005	NEFF_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/13/2024 14:10	65004	NEFF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/13/2024 14:12	66703	STRA_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
8/13/2024 14:16	11404	FARM_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/13/2024 14:16	10205	ALLE_T3	4	2	-2	0.88	0.5	-0.38	0	0	0	0	0	0	0	0
8/13/2024 14:16	11402	FARM_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
8/13/2024 14:16	10103	ALLE_T3	2	1	-1	1.4	0.9	-0.5	0	0	0	0	0	0	0	0
8/13/2024 14:17	63501	HEID_TBK1-2	56	55	-1	1.82	2.1	0.28	0.68	0.68	1	1	0	900	900	0
8/13/2024 14:17	10102	ALLE_T2	1	1	0	7.6	7.5	-0.1	0	0	0	0	0	0	0	0
8/13/2024 14:17	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 14:18	46002	BERW_T2	0	0	0	0	0	0	-0.91	-0.84	1	1	0	900	900	0
8/13/2024 14:19	46501	LOHA_T1	0	1	1	0	0	0	0.43	0.47	1	1	0	1200	1200	0
8/13/2024 14:19	46506	LOHA_T1	400	397	-3	0.35	0.34	-0.01	0	0	0	0	0	0	0	0
8/13/2024 14:19	46504	LOHA_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 14:19	63501	HEID_TBK1-2	56	55	-1	1.82	2.1	0.28	0.68	0.68	1	1	0	900	900	0
8/13/2024 14:20	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 14:20	46506	LOHA_T1	400	397	-3	0.35	0.34	-0.01	0	0	0	0	0	0	0	0
8/13/2024 14:20	46503	LOHA_T1	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
8/13/2024 14:20	46504	LOHA_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 14:21	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 14:21	46503	LOHA_T1	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
8/13/2024 14:21	46504	LOHA_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 14:21	46506	LOHA_T1	400	397	-3	0.35	0.34	-0.01	0	0	0	0	0	0	0	0
8/13/2024 14:24	13503	MCMI_T2	0	1	1	0	0.1	0.1	0.12	0.16	0	0	0	0	0	0
8/13/2024 14:24	66703	STRA_T1	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
8/13/2024 14:27	66501	SMAN_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
8/13/2024 14:27	66502	SMAN_T2	1	1	0	0.5	0.2	-0.3	0.57	0.56	0	0	0	0	0	0
8/13/2024 14:27	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 14:28	43802	SWIL_T1	0	0	0	0	0	0	0.25	0.28	1	1	0	600	600	0
8/13/2024 14:28	66703	STRA_T1	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
8/13/2024 14:28	43801	SWIL_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
8/13/2024 14:29	14203	EALL_T1	0	0	0	0	0	0	0.5	0.38	1	1	0	1200	1200	0
8/13/2024 14:30	13702	SCHN_T1	0	0	0	0	0	0	0.41	0.45	0	0	0	0	0	0
8/13/2024 14:30	13705	SCHN_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
8/13/2024 14:33	64305	LINC_T1	1	1	0	0.8	0.4	-0.4	0.53	0.56	0	0	0	0	0	0
8/13/2024 14:34	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 14:34	64203	KINZ_T1	2	2	0	1.65	1.4	-0.25	0.46	0.64	3	3	0	2100	2100	0
8/13/2024 14:34	64204	KINZ_T1	2	2	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
8/13/2024 14:35	46903	MNTG_T2	2	2	0	0.15	0.15	0	0.42	0.48	1	1	0	600	600	0
8/13/2024 14:36	46901	MNTG_T2	0	0	0	0	0	0	0.33	0.67	1	1	0	1200	1200	0
8/13/2024 14:36	46903	MNTG_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
8/13/2024 14:38	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 14:38	64203	KINZ_T1	2	2	0	1.65	1.4	-0.25	0.64	0.31	3	3	0	2100	2100	0
8/13/2024 14:38	64204	KINZ_T1	2	2	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
8/13/2024 14:44	66703	STRA_T1	0	0	0	0	0	0	0.03	-0.05	0	0	0	0	0	0
8/13/2024 14:45	14204	EALL_T2	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
8/13/2024 14:47	13705	SCHN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 14:47	13702	SCHN_T1	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
8/13/2024 14:49	64204	KINZ_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
8/13/2024 14:49	63501	HEID_TBK1-2	55	56	1	2.49	2.58	0.09	0.69	0.72	1	1	0	900	900	0
8/13/2024 14:49	64203	KINZ_T1	2	2	0	1.7	1.4	-0.3	0.64	0.31	3	3	0	2100	2100	0
8/13/2024 14:50	13503	MCMI_T2	0	16	16	0	0.38	0.38	0.16	-0.77	0	0	0	0	0	0
8/13/2024 14:51	13503	MCMI_T2	0	16	16	0	0.38	0.38	-1.54	-1.5	0	0	0	0	0	0
8/13/2024 14:53	11804	FRAN_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 14:53	11805	FRAN_T1	0	0	0	0	0	0	-1.79	-1.8	1	1	0	1200	1200	0
8/13/2024 14:55	13704	SCHN_T2	0	1	1	0	0	0	0.4	0.38	0	0	0	0	0	0
8/13/2024 14:55	67801	WLAN_T1	0	0	0	0	0	0	0.23	0.31	0	0	0	0	0	0
8/13/2024 14:55	67804	WLAN_T1	2	8	6	0.25	0.3	0.05	0	0	0	0	0	0	0	0
8/13/2024 14:58	63302	GREE_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
8/13/2024 15:01	11102	EGYP_T1	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
8/13/2024 15:01	11104	EGYP_T1	5	6	1	0.22	0.22	0	0.22	0.26	1	1	0	900	900	0
8/13/2024 15:01	11303	EMMA_T1	1	0	-1	0.7	0	-0.7	-1.09	-1.06	0	0	0	0	0	0
8/13/2024 15:01	11302	EMMA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/13/2024 15:02	11104	EGYP_T1	5	6	1	0.22	0.22	0	0.43	0.52	2	2	0	1800	1800	0
8/13/2024 15:02	11102	EGYP_T1	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
8/13/2024 15:02	63804	HEMP_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
8/13/2024 15:02	63801	HEMP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/13/2024 15:02	63802	HEMP_T1	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
8/13/2024 15:05	63602	LETO_T1	1	1	0	0.2	0.2	0	-0.04	-0.19	1	1	0	600	600	0
8/13/2024 15:05	63601	LETO_T1	1	1	0	0.2	0.1	-0.1	0.39	0.4	3	3	0	2700	2700	0
8/13/2024 15:05	64203	KINZ_T1	2	2	0	1.4	2.1	0.7	0.31	0.47	3	3	0	2100	2100	0
8/13/2024 15:05	64204	KINZ_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
8/13/2024 15:06	63602	LETO_T1	1	1	0	0.2	0.2	0	-0.19	-0.15	1	1	0	600	600	0
8/13/2024 15:06	63601	LETO_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/13/2024 15:06	40902	JESH_T1	0	1	1	0	0.1	0.1	-0.7	-0.7	2	2	0	1200	1200	0
8/13/2024 15:06	40901	JESH_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
8/13/2024 15:08	44201	POIN_T1	0	0	0	0	0	0	-1.13	-1.03	2	2	0	2100	2100	0
8/13/2024 15:12	66504	SMAN_T2	0	0	0	0	0	0	-0.52	-0.5	1	1	0	1200	1200	0
8/13/2024 15:13	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 15:13	67602	WARW_T2	0	0	0	0	0	0	0.67	0.64	1	1	0	300	300	0
8/13/2024 15:14	67602	WARW_T2	0	0	0	0	0	0	0.67	0.64	1	1	0	300	300	0
8/13/2024 15:14	43304	WATS_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
8/13/2024 15:15	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 15:15	63804	GREE_T1	0	0	0	0	0	0	-1	-0.99	0	0	0	0	0	0
8/13/2024 15:16	67602	WARW_T2	0	0	0	0	0	0	0.67	0.64	1	1	0	300	300	0
8/13/2024 15:16	63304	GREE_T1	0	0	0	0	0	0	-1	-0.99	0	0	0	0	0	0
8/13/2024 15:18	17802	GILB_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
8/13/2024 15:19	24602	VARD_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
8/13/2024 15:19	24603	VARD_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/13/2024 15:23	13702	SCHN_T1	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
8/13/2024 15:23	47401	PENS_T1	1	1	0	0.5	0.2	-0.3	3.46	3.6	0	0	0	0	0	0
8/13/2024 15:23	47402	PENS_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
8/13/2024 15:23	47403	PENS_T1	1	7	6	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/13/2024 15:24	16605	PONO_T1	0	0	0	0	0	0	-1.12	-1.04	2	2	0	2400	2400	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/13/2024 15:25	16603	PONO_T2	0	0	0	0	0	0	0.2	0.14	1	1	0	1200	1200	0
8/13/2024 15:25	47402	PENS_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
8/13/2024 15:25	47403	PENS_T1	1	7	6	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/13/2024 15:25	47401	PENS_T1	1	1	0	0.5	0.2	-0.3	1.73	1.8	0	0	0	0	0	0
8/13/2024 15:25	64101	REFR_T1	0	0	0	0	0	0	1.23	1.27	0	0	0	0	0	0
8/13/2024 15:26	67002	STHI_T2	0	0	0	0	0	0	1.18	1.23	0	0	0	0	0	0
8/13/2024 15:27	64101	REFR_T1	0	0	0	0	0	0	0.82	0.85	0	0	0	0	0	0
8/13/2024 15:32	43304	WATS_T2	0	0	0	0	0	0	-0.19	-0.16	0	0	0	0	0	0
8/13/2024 15:33	43304	WATS_T2	0	0	0	0	0	0	-0.19	-0.16	0	0	0	0	0	0
8/13/2024 15:33	13702	SCHN_T1	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
8/13/2024 15:34	11102	EGYP_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
8/13/2024 15:34	11104	EGYP_T1	5	6	1	0.22	0.1	-0.12	0.55	0.47	2	2	0	1800	1800	0
8/13/2024 15:38	13503	MCMI_T2	28	49	21	0.23	0.25	0.02	-0.73	0.17	0	0	0	0	0	0
8/13/2024 15:38	47402	PENS_T1	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/13/2024 15:38	47403	PENS_T1	6	2	-4	0.55	1.2	0.65	0	0	0	0	0	0	0	0
8/13/2024 15:38	47401	PENS_T1	1	1	0	0.2	0	-0.2	3.6	3.58	0	0	0	0	0	0
8/13/2024 15:39	47402	PENS_T1	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/13/2024 15:39	47401	PENS_T1	1	1	0	0.2	0	-0.2	1.8	1.79	0	0	0	0	0	0
8/13/2024 15:39	47403	PENS_T1	6	2	-4	0.55	1.2	0.65	0	0	0	0	0	0	0	0
8/13/2024 15:42	46206	DANV_T2	12	20	8	0.59	0.25	-0.34	1.81	1.71	2	2	0	2100	2100	0
8/13/2024 15:42	47401	PENS_T1	1	1	0	0.2	0	-0.2	1.8	1.79	0	0	0	0	0	0
8/13/2024 15:42	47402	PENS_T1	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/13/2024 15:42	47403	PENS_T1	6	2	-4	0.55	1.2	0.65	0	0	0	0	0	0	0	0
8/13/2024 15:42	46204	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 15:52	65201	PRIN_T4	0	2	2	0	0	0	0	0	1	1	0	600	600	0
8/13/2024 15:52	65206	PRIN_T4	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/13/2024 15:55	64101	REFR_T1	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
8/13/2024 15:56	66703	STRA_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
8/13/2024 15:56	45602	WOOL_T1	0	0	0	0	0	0	1.01	1.03	0	0	0	0	0	0
8/13/2024 15:57	66703	STRA_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
8/13/2024 15:57	61102	BERK_T5	0	0	0	0	0	0	0.62	0.4	1	1	0	300	300	0
8/13/2024 15:57	45602	WOOL_T1	0	0	0	0	0	0	1.01	1.03	0	0	0	0	0	0
8/13/2024 15:58	45602	WOOL_T1	0	0	0	0	0	0	1.01	1.03	0	0	0	0	0	0
8/13/2024 15:59	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 15:59	61301	EARL_T1	0	0	0	0	0	0	-0.92	-0.92	2	2	0	1800	1800	0
8/13/2024 16:00	65005	NEFF_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/13/2024 16:00	65004	NEFF_T2	1	1	0	0.1	0.1	0	-0.48	-0.44	1	1	0	600	600	0
8/13/2024 16:00	65003	NEFF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/13/2024 16:01	61102	BERK_T5	0	0	0	0	0	0	0.62	0.4	1	1	0	300	300	0
8/13/2024 16:03	66901	WIL_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
8/13/2024 16:03	63401	HONY_T1	0	0	0	0	0	0	0.05	-0.05	1	1	0	600	600	0
8/13/2024 16:04	61102	BERK_T5	0	0	0	0	0	0	0.62	0.4	1	1	0	300	300	0
8/13/2024 16:06	15203	SFAR_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/13/2024 16:06	64303	LINC_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
8/13/2024 16:06	64305	LINC_T1	1	0	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
8/13/2024 16:08	63401	HONY_T1	0	0	0	0	0	0	-0.05	0.34	1	1	0	600	600	0
8/13/2024 16:10	15203	SFAR_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/13/2024 16:12	60701	BREC_T1	0	2	2	0	0.1	0.1	-0.4	-0.48	2	2	0	1200	1200	0
8/13/2024 16:13	65901	SAKR_T2	1	1	0	7.5	7.5	0	-0.68	-0.6	2	2	0	1500	1500	0
8/13/2024 16:13	60701	BREC_T1	0	2	2	0	0.1	0.1	-0.4	-0.48	2	2	0	1200	1200	0
8/13/2024 16:14	60701	BREC_T1	0	2	2	0	0.1	0.1	-0.4	-0.48	2	2	0	1200	1200	0
8/13/2024 16:15	60701	BREC_T1	2	0	-2	0.1	0	-0.1	-0.4	-0.48	2	2	0	1200	1200	0
8/13/2024 16:16	46206	DANV_T2	7	9	2	0.66	0.8	0.14	0	0	0	0	0	0	0	0
8/13/2024 16:16	60701	BREC_T1	2	0	-2	0.1	0	-0.1	-0.4	-0.48	2	2	0	1200	1200	0
8/13/2024 16:16	46203	DANV_T2	0	0	0	0	0	0	-1.5	-1.57	0	0	0	0	0	0
8/13/2024 16:19	46206	DANV_T2	7	9	2	0.66	0.8	0.14	0	0	0	0	0	0	0	0
8/13/2024 16:19	46203	DANV_T2	0	0	0	0	0	0	-1.5	-1.57	0	0	0	0	0	0
8/13/2024 16:29	42902	MIDD_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/13/2024 16:29	42903	MIDD_T2	2	9	7	0.25	0.68	0.43	0.51	-0.56	1	1	0	1200	1200	0
8/13/2024 16:31	13702	SCHN_T1	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
8/13/2024 16:43	64902	MILL_T2	0	0	0	0	0	0	-0.63	-0.66	1	1	0	900	900	0
8/13/2024 16:44	49803	UNIV_T1	1	1	0	5	5	0	0	0	0	0	0	0	0	0
8/13/2024 16:44	49804	UNIV_T1	0	0	0	0	0	0	1.15	1.11	0	0	0	0	0	0
8/13/2024 16:47	40902	JESH_T1	0	0	0	0	0	0	-0.33	-0.28	0	0	0	0	0	0
8/13/2024 16:47	40901	JESH_T1	1	1	0	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
8/13/2024 16:49	40902	JESH_T1	0	0	0	0	0	0	-0.33	-0.28	0	0	0	0	0	0
8/13/2024 16:49	40901	JESH_T1	1	1	0	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
8/13/2024 16:53	64101	REFR_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
8/13/2024 16:57	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 16:57	21206	ECAR_T2	6	7	1	1.43	7.1	5.67	0.13	0.15	0	0	0	0	0	0
8/13/2024 16:59	16006	DORN_T2	0	0	0	0	0	0	-1.13	-1.12	1	1	0	1200	1200	0
8/13/2024 16:59	64902	MILL_T2	0	0	0	0	0	0	-0.66	-0.64	1	1	0	900	900	0
8/13/2024 17:02	16006	DORN_T2	0	0	0	0	0	0	-1.13	-1.12	1	1	0	1200	1200	0
8/13/2024 17:11	43301	WATS_T2	0	0	0	0	0	0	-0.21	-0.16	1	1	0	900	900	0
8/13/2024 17:13	64101	REFR_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
8/13/2024 17:17	61303	EARL_T1	1	1	0	0.1	0	-0.1	0.81	0.78	0	0	0	0	0	0
8/13/2024 17:18	61301	EARL_T1	0	0	0	0	0	0	-0.93	-0.93	2	2	0	1800	1800	0
8/13/2024 17:18	61303	EARL_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 17:30	21206	ECAR_T2	2	6	4	3.5	2.9	-0.6	0.18	0.2	0	0	0	0	0	0
8/13/2024 17:30	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 17:38	13702	SCHN_T1	0	0	0	0	0	0	0.62	0.57	0	0	0	0	0	0
8/13/2024 17:39	64203	KINZ_T1	1	0	-1	0.6	0	-0.6	-0.79	-0.82	2	2	0	1800	1800	0
8/13/2024 17:39	64204	KINZ_T1	1	1	0	0.5	1.2	0.7	0	0	0	0	0	0	0	0
8/13/2024 17:40	21206	ECAR_T2	2	6	4	3.5	2.9	-0.6	0.2	0.17	0	0	0	0	0	0
8/13/2024 17:40	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 17:41	13702	SCHN_T1	0	0	0	0	0	0	0.62	0.57	0	0	0	0	0	0
8/13/2024 17:53	64201	KINZ_T1	0	0	0	0	0	0	-0.48	-0.44	4	4	0	2100	2100	0
8/13/2024 17:53	64204	KINZ_T1	1	1	0	1.2	0.5	-0.7	0	0	0	0	0	0	0	0
8/13/2024 18:06	42001	MNVL_T2	57	52	-5	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
8/13/2024 18:06	42002	MNVL_T2	1	1	0	1.5	1.2	-0.3	-0.41	-0.39	0	0	0	0	0	0
8/13/2024 18:13	14502	SCHO_T1	1	1	0	2	1.6	-0.4	1.29	1.24	0	0	0	0	0	0
8/13/2024 18:34	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 18:34	10102	ALLE_T2	1	1	0	7.6	7.1	-0.5	0	0	0	0	0	0	0	0
8/13/2024 18:35	14603	SWHI_T1	0	0	0	0	0	0	-1.07	-1.09	2	2	0	1200	1200	0
8/13/2024 18:46	63303	GREE_T1	0	0	0	0	0	0	-0.37	-0.33	2	2	0	1800	1800	0
8/13/2024 18:46	63305	GREE_T1	13	16	3	0.31	0.34	0.03	0	0	0	0	0	0	0	0
8/13/2024 18:59	67805	WLAN_T1	0	0	0	0	0	0	-0.9	-0.94	0	0	0	0	0	0
8/13/2024 18:59	67804	WLAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/13/2024 19:00	46602	LACR_T1	0	1	1	0	0.2	0.2	-0.69	-0.65	0	0	0	0	0	0
8/13/2024 19:04	67505	WEWI_T1	0	0	0	0	0	0	0.6	0.56	1	1	0	900	900	0
8/13/2024 19:09	64204	KINZ_T1	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
8/13/2024 19:09	64203	KINZ_T1	0	0	0	0	0	0	-0.87	-0.88	2	2	0	1800	1800	0
8/13/2024 19:12	66504	SMAN_T2	2	2	0	0.15	0	-0.15	-0.43	-0.56	1	1	0	1200	1200	0
8/13/2024 19:12	66505	SMAN_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
8/13/2024 19:12	67002	STHI_T2	0	0	0	0	0	0	1.39	1.4	0	0	0	0	0	0
8/13/2024 19:18	14603	SWHI_T1	0	0	0	0	0	0	-1.07	-1.16	2	2	0	1200	1200	0
8/13/2024 19:43	42903	MIDD_T2	2	2	0	0.15	0.35	0.2	0.45	0.34	0	0	0	0	0	0
8/13/2024 19:43	42901	MIDD_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/13/2024 19:50	65003	NEFF_T2	2	1	-1	0.15	0.1	-0.05	-1.66	-1.67	2	2	0	1800	1800	0
8/13/2024 21:08	16402	MOPO_T1	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
8/13/2024 21:09	16402	MOPO_T1	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
8/13/2024 21:29	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 21:29	66505	SMAN_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
8/13/2024 21:41	12701	MACU_T1	0	0	0	0	0	0	-1.05	-1.05	1	1	0	1200	1200	0
8/13/2024 21:42	12701	MACU_T1	0	0	0	0	0	0	-1.05	-1.05	1	1	0	1200	1200	0
8/13/2024 21:50	10602	BLGL_T2	1	1	0	9.2	10	0.8	0.42	0.34	0	0	0	0	0	0
8/13/2024 21:54	15702	TANN_T2	0	0	0	0	0	0	-0.29	-0.24	0	0	0	0	0	0
8/13/2024 21:54	16102	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 21:54	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
8/13/2024 21:54	16101	BING_T2	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
8/13/2024 21:55	17805	GILB_T2	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
8/13/2024 21:56	17805	GILB_T2	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
8/13/2024 21:58	10102	ALLE_T2	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
8/13/2024 21:58	64902	MILL_T2	0	0	0	0	0	0	-0.3	-0.28	1	1	0	900	900	0
8/13/2024 21:58	13501	MCMI_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
8/13/2024 21:58	16201	POFA_T2	128	184	56	0.14	0.15	0.01	0	0	0	0	0	0	0	0
8/13/2024 21:58	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 21:59	65003	NEFF_T2	2	4	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/13/2024 21:59	63602	LETO_T1	0	37	37	0	0.12	0.12	-0.6	-0.62	1	1	0	600	600	0
8/13/2024 21:59	17802	GILB_T1	0	1	1	0	0.2	0.2	0.22	0.19	0	0	0	0	0	0
8/13/2024 21:59	65004	NEFF_T2	0	0	0	0	0	0	-0.23	-0.68	0	1	1	0	600	600
8/13/2024 21:59	10801	CHHI_T1	0	0	0	0	0	0	-0.99	-1	2	2	0	1500	1500	0
8/13/2024 21:59	14801	TREI_T2	1	1	0	1.2	1.1	-0.1	-0.12	-0.18	0	0	0	0	0	0
8/13/2024 22:00	64201	KINZ_T1	0	1	1	0	0.8	0.8	-0.66	-0.62	3	3	0	1500	1500	0
8/13/2024 22:00	23102	MOSC_T2	0	0	0	0	0	0	-2.68	-2.52	2	2	0	1800	1800	0
8/13/2024 22:00	66504	SMAN_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
8/13/2024 22:00	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/13/2024 22:00	64202	KINZ_T1	3	3	0	0.47	0.7	0.23	0	0	0	0	0	0	0	0
8/13/2024 22:00	64204	KINZ_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
8/13/2024 22:01	13503	MCMI_T2	0	0	0	0	0	0	0.1	0.06	0	0	0	0	0	0
8/13/2024 22:01	46206	DANV_T2	0	0	0	0	0	0	1.38	1.41	2	2	0	2100	2100	0
8/13/2024 22:01	15604	NSTR_T1	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
8/13/2024 22:01	16102	BING_T2	0	1	1	0	0	0	0.57	0.52	0	0	0	0	0	0
8/13/2024 22:01	61303	EARL_T1	0	0	0	0	0	0	0.38	0.33	0	0	0	0	0	0
8/13/2024 22:02	11104	EGYP_T1	0	0	0	0	0	0	0.79	0.75	0	0	0	0	0	0
8/13/2024 22:02	17802	GILB_T1	1	1	0	0.2	0.2	0	0.22	0.19	0	0	0	0	0	0
8/13/2024 22:02	63501	HEID_TBK1-2	55	55	0	2.92	2.29	0.37	0.77	0.69	0	0	0	0	0	0
8/13/2024 22:02	14802	TREI_T2	0	0	0	0	0	0	0.66	0.62	0	0	0	0	0	0
8/13/2024 22:02	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 22:02	67002	STHI_T2	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
8/13/2024 22:02	63403	HONY_T2	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
8/13/2024 22:02	16103	BING_T2	0	0	0	0	0	0	-1.12	-1.13	1	1	0	900	900	0
8/13/2024 22:02	63402	HONY_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/13/2024 22:02	16102	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 22:02	14801	TREI_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
8/13/2024 22:03	60701	BREC_T1	0	0	0	0	0	0	-0.26	-0.33	1	1	0	600	600	0
8/13/2024 22:03	16006	DORN_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
8/13/2024 22:03	21204	ECAR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/13/2024 22:03	28303	NEWF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 22:03	61102	BERK_T5	0	0	0	0	0	0	0.4	0.37	1	1	0	300	300	0
8/13/2024 22:03	14202	EALL_T2	3	5	2	0.93	0.68	-0.25	0	0	0	0	0	0	0	0
8/13/2024 22:03	67605	WARW_T1	3	3	0	1.1	0.47	-0.63	0	0	0	0	0	0	0	0
8/13/2024 22:03	65003	NEFF_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/13/2024 22:03	65001	NEFF_T2	0	0	0	0	0	0	-0.5	-0.6	1	1	0	1200	1200	0
8/13/2024 22:03	45701	LIND_T2	0	0	0	0	0	0	-0.09	-0.3	0	0	0	0	0	0
8/13/2024 22:03	14204	EALL_T2	0	0	0	0	0	0	1.29	1.28	0	0	0	0	0	0
8/13/2024 22:03	67603	WARW_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
8/13/2024 22:03	21206	ECAR_T2	1	1	0	7	7.1	0.1	0.06	0.07	0	0	0	0	0	0
8/13/2024 22:04	10805	OHHI_T2	1	1	0	7.5	7.1	-0.4	-0.46	-0.79	1	1	0	600	600	0
8/13/2024 22:04	47203	FAXO_T2	0	0	0	0	0	0	-1.29	-1.31	1	1	0	1200	1200	0
8/13/2024 22:04	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 22:04	46602	LACR_T1	1	10	9	0.2	0.12	-0.08	-0.78	-0.81	0	0	0	0	0	0
8/13/2024 22:04	64902	MILL_T2	0	0	0	0	0	0	-0.3	-0.28	1	1	0	900	900	0
8/13/2024 22:04	66703	STRA_T1	133	271	138	0.2	0.26	0.06	-0.79	-0.82	0	0	0	0	0	0
8/13/2024 22:04	64202	KINZ_T1	3	3	0	0.47	0.7	0.23	0	0	0	0	0	0	0	0
8/13/2024 22:04	64204	KINZ_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
8/13/2024 22:04	64201	KINZ_T1	0	1	1	0	0.8	0.8	-1.33	-1.25	6	6	0	3000	3000	0
8/13/2024 22:04	47201	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 22:04	43802	SWIL_T1	0	0	0	0	0	0	0.16	0.12	1	1	0	600	600	0
8/13/2024 22:04	63501	HEID_TBK1-2	55	55	0	1.92	2.29	0.37	0.77	0.69	0	0	0	0	0	0
8/13/2024 22:04	11507	FREE_T2	0	1	1	0	0	0	1.07	1.09	1	1	0	600	600	0
8/13/2024 22:04	43801	SWIL_T1	2	3	1	3.35	2.2	-1.15	0	0	0	0	0	0	0	0
8/13/2024 22:04	66701	STRA_T1	3	3	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/13/2024 22:04	13905	SEID_T1	0	0	0	0	0	0	-0.73	-0.75	1	1	0	1200	1200	0
8/13/2024 22:05	15703	TANN_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
8/13/2024 22:05	67002	STHI_T2	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
8/13/2024 22:05	63401	HONY_T1	0	0	0	0	0	0	0.43	-0.02	2	2	0	1200	1200	0
8/13/2024 22:05	66701	STRA_T1	3	3	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/13/2024 22:05	66703	STRA_T1	133	271	138	0.2	0.26	0.06	-0.79	-0.82	0	0	0	0	0	0
8/13/2024 22:05	60801	BUCK_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
8/13/2024 22:05	47001	HUGH_T2	3	3	0	8.13	8.93	0.8	-0.63	-0.67	0	0	0	0	0	0
8/13/2024 22:05	44202	POIN_T2	1	1	0	2.9	2.4	-0.5	0	0	0	0	0	0	0	0
8/13/2024 22:05	44203	POIN_T2	0	0	0	0	0	0	-0.63	-0.75	2	2	0	2100	2100	0
8/13/2024 22:05	63602	LETO_T1	15	35	20	0.1	0.12	0.02	0	0	0	0	0	0	0	0
8/13/2024 22:05	67805	WLAN_T1	5	0	-5	0.1	0	-0.1	-1.16	-1.16	0	0	0	0	0	0
8/13/2024 22:05	66902	SHIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/13/2024 22:05	66504	SMAN_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
8/13/2024 22:05	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/13/2024 22:05	14801	TREI_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
8/13/2024 22:05	67702	WERN_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
8/13/2024 22:05	61506	EPET_T2	0	0	0	0	0	0	-0.67	-0.67	1	1	0	900	900	0
8/13/2024 22:05	47002	HUGH_T2	0	9	9	0	0.26	0.26	0	0	0	0	0	0	0	0
8/13/2024 22:05	63601	LETO_T1	0	0	0	0	0	0	1.01	0.7	2	2	0	2100	2100	0
8/13/2024 22:05	67605	WARW_T1	3	3	0	1.1	0.47	-0.63	-0.97	-0.99	0	0	0	0	0	0
8/13/2024 22:05	21703	SUBU_T1	0	0	0	0	0	0	0.78	0.75	0	0	0	0	0	0
8/13/2024 22:05	61501	EPET_T2	1	1	0	5.3	5.7	0.4	0	0	0	0	0	0	0	0
8/13/2024 22:05	47401	PENS_T1	0	0	0	0	0	0	1.33	1.26	0	0	0	0	0	0
8/13/2024 22:05	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/13/2024 22:05	21705	SUBU_T1	1	1	0	5.2	5.8	0.6	0	0	0	0	0	0	0	0
8/13/2024 22:05	14802	TREI_T2	0	0	0	0	0	0	0.66	0.62	0	0	0	0	0	0
8/13/2024 22:05	66901	SHIL_T2	0	72	72	0	0.15	0.15	0.18	0.12	0	0	0	0	0	0
8/13/2024 22:05	15702	TANN_T2	0	0	0	0	0	0	-0.59	-0.48	0	0	0	0	0	0
8/13/2024 22:05	21701	SUBU_T1	1	1	0	5.9	6.5	0.6	0	0	0	0	0	0	0	0
8/13/2024 22:05	46903	MNTG_T2	0	0	0	0	0	0	-0.04	-0.01	1	1	0	600	600	0
8/13/2024 22:06	21204	ECAR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/13/2024 22:06	44703	MUNC_T2	3	3	0	0.6	0.47	-0.13	0.71	0.65	0	0	0	0	0	0
8/13/2024 22:06	45702	LIND_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
8/13/2024 22:06	12604	MACA_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
8/13/2024 22:06	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 22:06	14801	TREI_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
8/13/2024 22:06	67505	WEWI_T1	0	0	0	0	0	0	0.27	0.18	1	1	0	900	900	0
8/13/2024 22:06	66701	STRA_T1	3	3	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/13/2024 22:06	47002	HUGH_T2	0	9	9	0	0.26	0.26	0	0	0	0	0	0	0	0
8/13/2024 22:06	14802	TREI_T2	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
8/13/2024 22:06	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 22:06	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 22:06	63602	LETO_T1	15	35	20	0.1	0.12	0.02	-0.62	-0.14	1	1	0	600	600	0
8/13/2024 22:06	43401	BENT_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/13/2024 22:06	16201	POFA_T2	184	0	-184	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/13/2024 22:06	44702	MUNC_T2	64	1	-63	0.34	0.2	-0.14	0	0	0	0	0	0	0	0
8/13/2024 22:06	60701	BREC_T1	0	0	0	0	0	0	-0.33	-0.33	1	1	0	600	600	0
8/13/2024 22:06	28702	HAML_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
8/13/2024 22:06	23401	HONE_T2	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
8/13/2024 22:06	43402	BENT_T1	0	0	0	0	0	0	-0.56	0.04	1	1	0	600	600	0
8/13/2024 22:06	47001	HUGH_T2	3	3	0	8.13	8.93	0.8	-0.67	-0.69	0	0	0	0	0	0
8/13/2024 22:06	42002	MNVL_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
8/13/2024 22:06	42001	MNVL_T2	108	191	83	0.46	0.46	0	-0.06	-0.09	0	0	0	0	0	0
8/13/2024 22:06	66703	STRA_T1	133	271	138	0.2	0.26	0.06	-0.82	-0.84	0	0	0	0	0	0
8/13/2024 22:06	44701	MUNC_T2	6	1	-5	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/13/2024 22:06	21206	ECAR_T2	1	1	0	7	7.1	0.1	0.07	-0.02	0	0	0	0	0	0
8/13/2024 22:06	42802	SELI_T1	1	10	9	0.2	0.24	0.04	-0.94	-0.97	0	0	0	0	0	0
8/13/2024 22:06	67804	WLAN_T1	0	0	0	0	0	0	-0.76	-0.77	0	0	0	0	0	0
8/13/2024 22:06	67605	WARW_T1	3	3	0	1.1	0.47	-0.63	-1.98	-2.03	0	0	0	0	0	0
8/13/2024 22:06	43301	WATS_T2	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
8/13/2024 22:06	67805	WLAN_T1	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 22:07	63804	HEMP_T1	1	1	0	6	5.5	-0.5	0	0	0	0	0	0	0	0
8/13/2024 22:07	61102	BERK_T5	0	0	0	0	0	0	0.37	0.33	1	1	0	300	300	0
8/13/2024 22:07	42001	MNVL_T2	108	191	83	0.46	0.46	0	0	0	0	0	0	0	0	0
8/13/2024 22:07	64201	KINZ_T1	0	1	1	0	0.8	0.8	-0.62	-0.62	3	3	0	1500	1500	0
8/13/2024 22:07	47401	PENS_T1	0	0	0	0	0	0	1.26	1.19	0	0	0	0	0	0
8/13/2024 22:07	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 22:07	61301	EARL_T1	0	0	0	0	0	0	-1.06	-1.07	2	2	0	1800	1800	0
8/13/2024 22:07	63602	LETO_T1	15	35	20	0.1	0.12	0.02	-0.62	-0.14	1	0	-1	600	0	-600
8/13/2024 22:07	45602	WOOL_T1	1	5	4	0.2	0.26	0.06	0.88	0.84	0	0	0	0	0	0
8/13/2024 22:07	46206	DANV_T2	0	0	0	0	0	0	1.41	1.39	2	2	0	2100	2100	0
8/13/2024 22:07	11901	ETEX_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
8/13/2024 22:07	64303	LINC_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
8/13/2024 22:07	42002	MNVL_T2	1	1	0	1.2	1	-0.2	0.36	0.37	0	0	0	0	0	0
8/13/2024 22:07	22101	EDEL_T2	0	0	0	0	0	0	0.78	0.73	1	1	0	1200	1200	0
8/13/2024 22:07	45501	DERR_T2	0	0	0	0	0	0	-0.15	-0.06	2	2	0	1800	1800	0
8/13/2024 22:07	64202	KINZ_T1	3	3	0	0.47	0.7	0.23	0	0	0	0	0	0	0	0
8/13/2024 22:07	63802	HEMP_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
8/13/2024 22:07	67303	WYOM_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
8/13/2024 22:07	26402	INOR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/13/2024 22:07	64501	LAVI_T1	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
8/13/2024 22:07	60701	BREC_T1	0	0	0	0	0	0	-0.33	-0.33	1	1	0	600	600	0
8/13/2024 22:07	11104	EGYP_T1	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
8/13/2024 22:07	64204	KINZ_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
8/13/2024 22:07	10805	OHHI_T2	1	1	0	7.5	7.1	-0.4	-0.79	-0.52	1	1	0	600	600	0
8/13/2024 22:08	45501	DERR_T2	0	0	0	0	0	0	-0.3	-0.13	4	4	0	3600	3600	0
8/13/2024 22:08	65205	PRIN_T1	1	1	0	1.7	1.9	0.2	0	0	0	0	0	0	0	0
8/13/2024 22:08	44203	POIN_T2	0	0	0	0	0	0	-0.75	-0.74	2	2	0	2100	2100	0
8/13/2024 22:08	14601	SWHI_T1	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
8/13/2024 22:08	44202	POIN_T2	1	1	0	2.9	2.4	-0.5	0	0	0	0	0	0	0	0
8/13/2024 22:08	41002	LAUR_T2	59	84	25	1.04	1.41	0.37	0.15	0.14	0	0	0	0	0	0
8/13/2024 22:08	67702	WERN_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
8/13/2024 22:08	44201	POIN_T1	0	0	0	0	0	0	-1.5	-1.5	2	2	0	2100	2100	0
8/13/2024 22:08	42802	SELI_T1	1	10	9	0.2	0.24	0.04	-0.94	-0.97	0	0	0	0	0	0
8/13/2024 22:08	60701	BREC_T1	0	0	0	0	0	0	-0.33	-0.33	1	1	0	600	600	0
8/13/2024 22:08	63602	LETO_T1	15	35	20	0.1	0.12	0.02	-0.62	-0.14	1	0	-1	600	0	-600
8/13/2024 22:08	41001	LAUR_T2	84	118	34	1.11	1.45	0.34	0	0	0	0	0	0	0	0
8/13/2024 22:09	67601	WARW_T2	1	0	-1	4.8	0	-4.8	0	0	0	0	0	0	0	0
8/13/2024 22:09	24201	PROV_T3	28	1	-27	0.36	6.6	6.24	-1.19	-1.2	1	1	0	1200	1200	0
8/13/2024 22:09	47401	PENS_T1	0	0	0	0	0	0	1.26	1.19	0	0	0	0	0	0
8/13/2024 22:09	24204	PROV_T3	3	1	-2	2.07	6	3.93	0	0	0	0	0	0	0	0
8/13/2024 22:09	64201	KINZ_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/13/2024 22:09	10801	OHHI_T1	0	1	1	0	0	0	-2	-0.87	4	2	-2	3000	1800	-1200
8/13/2024 22:09	46803	HEPB_T2	0	0	0	0	0	0	0.69	0.62	0	0	0	0	0	0
8/13/2024 22:09	13702	SCHN_T1	0	0	0	0	0	0	0.16	0.12	0	0	0	0	0	0
8/13/2024 22:09	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 22:09	64202	KINZ_T1	3	3	0	0.47	0.7	0.23	0	0	0	0	0	0	0	0
8/13/2024 22:09	44802	EDAN_T2	0	0	0	0	0	0	-1.63	-1.75	0	0	0	0	0	0
8/13/2024 22:09	44801	EDAN_T2	103	163	60	0.37	0.49	0.12	0	0	0	0	0	0	0	0
8/13/2024 22:09	67602	WARW_T2	0	0	0	0	0	0	0.38	0.4	1	1	0	300	300	0
8/13/2024 22:09	46801	HEPB_T2	3	2	-1	1.17	1	-0.17	0	0	0	0	0	0	0	0
8/13/2024 22:09	60201	ATGL_T2	0	0	0	0	0	0	-0.03	-0.08	1	1	0	300	300	0
8/13/2024 22:09	24205	PROV_T3	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
8/13/2024 22:09	46203	DANV_T2	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
8/13/2024 22:09	45501	DERR_T2	0	0	0	0	0	0	-0.15	-0.06	2	2	0	1800	1800	0
8/13/2024 22:09	63804	HEMP_T1	1	1	0	6	5.5	-0.5	-0.44	-0.44	0	0	0	0	0	0
8/13/2024 22:09	64204	KINZ_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
8/13/2024 22:09	16006	DORN_T2	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
8/13/2024 22:09	64203	KINZ_T1	0	0	0	0	0	0	0.42	0.19	2	2	0	1200	1200	0
8/13/2024 22:09	64101	REFR_T1	0	0	0	0	0	0	0.74	0.57	0	0	0	0	0	0
8/13/2024 22:10	63305	GREE_T1	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
8/13/2024 22:10	44703	MUNC_T2	3	3	0	0.6	0.47	-0.13	0	0	0	0	0	0	0	0
8/13/2024 22:10	14502	SCHO_T1	1	1	0	1	0.8	-0.2	0.72	0.74	0	0	0	0	0	0
8/13/2024 22:10	45602	WOOL_T1	1	5	4	0.2	0.26	0.06	0.88	0.84	0	0	0	0	0	0
8/13/2024 22:10	46504	LOHA_T1	2	2	0	0.25	1	0.75	0	0	0	0	0	0	0	0
8/13/2024 22:10	44701	MUNC_T2	6	1	-5	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/13/2024 22:10	66701	STRA_T1	3	3	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/13/2024 22:10	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	-0.1	-0.3	3	3	0	2100	2100	0
8/13/2024 22:10	67002	STHI_T2	0	0	0	0	0	0	1.01	0.98	0	0	0	0	0	0
8/13/2024 22:10	61703	ELIZ_T1	0	0	0	0	0	0	-2.58	-2.58	2	2	0	2100	2100	0
8/13/2024 22:10	61701	ELIZ_T1	1	1	0	3.9	3.9	0	0	0	0	0	0	0	0	0
8/13/2024 22:10	44702	MUNC_T2	64	1	-63	0.34	0.2	-0.14	0	0	0	0	0	0	0	0
8/13/2024 22:10	43802	SWIL_T1	0	0	0	0	0	0	0.12	0.12	1	1	0	600	600	0
8/13/2024 22:10	44801	EDAN_T2	103	163	60	0.37	0.49	0.12	0	0	0	0	0	0	0	0
8/13/2024 22:10	64101	REFR_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
8/13/2024 22:10	46501	LOHA_T1	1	0	-1	1.7	0	-1.7	0.47	0.46	1	1	0	1200	1200	0
8/13/2024 22:10	66703	STRA_T1	133	271	138	0.2	0.26	0.06	-0.82	-0.84	0	0	0	0	0	0
8/13/2024 22:10	10901	COOP_T2	0	0	0	0	0	0	0.86	0.85	0	0	0	0	0	0
8/13/2024 22:10	43801	SWIL_T1	2	3	1	3.35	2.2	-1.15	0	0	0	0	0	0	0	0
8/13/2024 22:10	63501	HEID_TBK1-2	55	55	0	1.92	2.29	0.37	0.69	0.68	0	0	0	0	0	0
8/13/2024 22:10	44802	EDAN_T2	0	0	0	0	0	0	-0.54	-0.58	0	0	0	0	0	0
8/13/2024 22:10	43301	WATS_T2	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/13/2024 22:10	64602	LEOL_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
8/13/2024 22:11	43301	WATS_T2	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
8/13/2024 22:11	63304	GREE_T1	0	0	0	0	0	0	-1.52	-1.6	0	0	0	0	0	0
8/13/2024 22:11	10805	CHHI_T2	1	1	0	7.5	7.1	-0.4	-0.79	-0.52	1	1	0	600	600	0
8/13/2024 22:11	61703	ELIZ_T1	0	0	0	0	0	0	-5.17	-5.16	4	4	0	4200	4200	0
8/13/2024 22:11	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/13/2024 22:11	40901	JESH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 22:11	64802	MONE_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
8/13/2024 22:11	44701	MUNC_T2	6	1	-5	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/13/2024 22:11	40902	JESH_T1	0	3	3	0	0.13	0.13	-0.96	-0.98	0	0	0	0	0	0
8/13/2024 22:11	46801	HEPB_T2	3	2	-1	1.17	1	-0.17	-0.14	0.77	0	0	0	0	0	0
8/13/2024 22:11	40903	JESH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 22:11	44703	MUNC_T2	3	3	0	0.6	0.47	-0.13	0.71	0.65	0	0	0	0	0	0
8/13/2024 22:11	44801	EDAN_T2	103	163	60	0.37	0.49	0.12	-1.53	-1.55	0	0	0	0	0	0
8/13/2024 22:11	67001	STHI_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
8/13/2024 22:11	64101	REFR_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
8/13/2024 22:11	13704	SCHN_T2	0	0	0	0	0	0	-0.01	-0.17	0	0	0	0	0	0
8/13/2024 22:11	64801	MONE_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/13/2024 22:11	66502	SMAN_T2	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
8/13/2024 22:11	44702	MUNC_T2	64	1	-63	0.34	0.2	-0.14	0	0	0	0	0	0	0	0
8/13/2024 22:11	46004	BERW_T2	0	0	0	0	0	0	0.32	0.22	0	0	0	0	0	0
8/13/2024 22:11	61701	ELIZ_T1	1	1	0	3.9	3.9	0	0	0	0	0	0	0	0	0
8/13/2024 22:12	63401	HONY_T1	0	0	0	0	0	0	-0.01	0.1	1	1	0	600	600	0
8/13/2024 22:12	17804	GILB_T2	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
8/13/2024 22:12	64305	LINC_T1	0	0	0	0	0	0	-0.32	-0.39	0	0	0	0	0	0
8/13/2024 22:12	45602	WOOL_T1	1	5	4	0.2	0.26	0.06	0.88	0.84	0	0	0	0	0	0
8/13/2024 22:12	63501	HEID_TBK1-2	55	55	0	1.92	2.29	0.37	0.69	0.68	0	0	0	0	0	0
8/13/2024 22:12	43304	WATS_T2	0	0	0	0	0	0	-0.48	-0.53	0	0	0	0	0	0
8/13/2024 22:12	13503	MCMI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
8/13/2024 22:12	45501	DERR_T2	0	0	0	0	0	0	-0.15	-0.06	2	2	0	1800	1800	0
8/13/2024 22:12	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 22:12	42802	SELI_T1	1	10	9	0.2	0.24	0.04	-0.94	-0.97	0	0	0	0	0	0
8/13/2024 22:12	16201	POFA_T2	184	0	-184	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/13/2024 22:12	47401	PENS_T1	0	0	0	0	0	0	1.26	1.19	0	0	0	0	0	0
8/13/2024 22:13	14802	TREI_T2	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
8/13/2024 22:13	42802	SELI_T1	1	10	9	0.2	0.24	0.04	-0.94	-0.97	0	0	0	0	0	0
8/13/2024 22:13	40901	JESH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/13/2024 22:13	45602	WOOL_T1	1	5	4	0.2	0.26	0.06	0.88	0.84	0	0	0	0	0	0
8/13/2024 22:13	42903	MIDD_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/13/2024 22:13	67601	WARW_T2	1	0	-1	4.8	0	-4.8	0	0	0	0	0	0	0	0
8/13/2024 22:13	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 22:13	42902	MIDD_T2	0	0	0	0	0	0	-0.91	-0.95	1	1	0	600	600	0
8/13/2024 22:13	16605	PONO_T1	0	0	0	0	0	0	-0.2	-0.26	1	1	0	1200	1200	0
8/13/2024 22:13	44301	BEAV_T2	0	0	0	0	0	0	-0.32	0.03	1	1	0	600	600	0
8/13/2024 22:13	67602	WARW_T2	0	0	0	0	0	0	0.38	0.4	1	1	0	300	300	0
8/13/2024 22:13	11104	EGYP_T1	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
8/13/2024 22:13	40903	JESH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 22:13	14801	TREI_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
8/13/2024 22:13	46402	FLEM_T2	20	27	7	0.26	0.49	0.23	0.79	0.72	0	0	0	0	0	0
8/13/2024 22:13	67201	TEHI_T1	5	0	-5	0.14	0	-0.14	-0.34	-0.37	1	1	0	900	900	0
8/13/2024 22:13	46401	FLEM_T2	10	62	52	0.15	0.26	0.11	0	0	0	0	0	0	0	0
8/13/2024 22:13	11303	EMMA_T1	0	0	0	0	0	0	-1.34	-1.32	0	0	0	0	0	0
8/13/2024 22:13	40902	JESH_T1	0	3	3	0	0.13	0.13	-0.48	-0.49	0	0	0	0	0	0
8/13/2024 22:13	47401	PENS_T1	0	0	0	0	0	0	2.53	2.38	0	0	0	0	0	0
8/13/2024 22:13	45501	DERR_T2	0	0	0	0	0	0	-0.3	-0.13	4	4	0	3600	3600	0
8/13/2024 22:14	66701	STRA_T1	3	3	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/13/2024 22:14	11404	FARM_T1	0	0	0	0	0	0	0.93	0.77	0	0	0	0	0	0
8/13/2024 22:14	46503	LOHA_T1	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
8/13/2024 22:14	61102	BERK_T5	0	0	0	0	0	0	0.37	0.33	1	1	0	300	300	0
8/13/2024 22:14	64101	REFR_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
8/13/2024 22:14	46501	LOHA_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
8/13/2024 22:14	43304	WATS_T2	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
8/13/2024 22:14	46504	LOHA_T1	2	2	0	0.25	1	0.75	0	0	0	0	0	0	0	0
8/13/2024 22:14	25503	MADI_T1	17	0	-17	0.15	0	-0.15	-0.83	-0.88	0	0	0	0	0	0
8/13/2024 22:14	45602	WOOL_T1	1	5	4	0.2	0.26	0.06	0.88	0.84	0	0	0	0	0	0
8/13/2024 22:14	44801	EDAN_T2	103	163	60	0.37	0.49	0.12	-1.53	-1.55	0	0	0	0	0	0
8/13/2024 22:14	46506	LOHA_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
8/13/2024 22:14	66703	STRA_T1	133	271	138	0.2	0.26	0.06	-0.82	-0.84	0	0	0	0	0	0
8/13/2024 22:14	64902	MILL_T2	0	0	0	0	0	0	-0.28	-0.32	1	1	0	900	900	0
8/13/2024 22:14	45502	DERR_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
8/13/2024 22:14	25501	MADI_T1	3	2	-1	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
8/13/2024 22:14	12701	MACU_T1	0	0	0	0	0	0	-1.06	-1.09	1	1	0	1200	1200	0
8/13/2024 22:15	40902	JESH_T1	1	3	2	0.1	0.13	0.03	-0.48	-0.49	0	0	0	0	0	0
8/13/2024 22:15	40903	JESH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 22:15	63602	LETO_T1	35	0	-35	0.12	0	-0.12	-0.62	-0.14	1	0	-1	600	0	-600
8/13/2024 22:15	44202	POIN_T2	1	1	0	3.1	1.9	-1.2	0	0	0	0	0	0	0	0
8/13/2024 22:15	64101	REFR_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
8/13/2024 22:15	43801	SWIL_T1	2	3	1	3.3	2.2	-1.1	0	0	0	0	0	0	0	0
8/13/2024 22:15	44203	POIN_T2	0	0	0	0	0	0	-0.75	-0.74	2	2	0	2100	2100	0
8/13/2024 22:15	44801	EDAN_T2	132	173	41	0.41	0.52	0.11	-1.53	-1.55	0	0	0	0	0	0
8/13/2024 22:15	45501	DERR_T2	0	0	0	0	0	0	-0.15	-0.06	2	2	0	1800	1800	0
8/13/2024 22:15	43802	SWIL_T1	0	0	0	0	0	0	0.12	0.12	1	1	0	600	600	0
8/13/2024 22:15	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 22:16	43402	BENT_T1	0	0	0	0	0	0	-0.56	0.04	1	0	-1	600	0	-600
8/13/2024 22:16	60701	BREC_T1	0	0	0	0	0	0	-0.33	-0.33	1	1	0	600	600	0
8/13/2024 22:16	47502	NECO_T1	0	0	0	0	0	0	0.89	0.81	0	0	0	0	0	0
8/13/2024 22:16	46504	LOHA_T1	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
8/13/2024 22:16	63501	HEID_TBK1-2	55	55	0	2.48	2.25	-0.23	0.69	0.68	0	0	0	0	0	0
8/13/2024 22:16	40902	JESH_T1	1	3	2	0.1	0.13	0.03	-0.48	-0.49	0	0	0	0	0	0
8/13/2024 22:16	63303	GREE_T1	0	0	0	0	0	0	0.44	0.4	1	1	0	600	600	0
8/13/2024 22:16	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 22:16	46501	LOHA_T1	0	0	0	0	0	0	0.47	0.46	1	1	0	1200	1200	0
8/13/2024 22:16	63304	GREE_T1	0	0	0	0	0	0	-1.52	-1.6	0	0	0	0	0	0
8/13/2024 22:16	67804	WLAN_T1	0	0	0	0	0	0	-0.76	-0.77	0	0	0	0	0	0
8/13/2024 22:16	43304	WATS_T2	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
8/13/2024 22:16	13702	SCHN_T1	0	0	0	0	0	0	0.16	0.12	0	0	0	0	0	0
8/13/2024 22:16	67203	TEHI_T1	0	0	0	0	0	0	2.53	2.49	2	2	0	1500	1500	0
8/13/2024 22:16	40903	JESH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 22:16	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 22:16	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 22:17	64201	KINZ_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
8/13/2024 22:17	64101	REFR_T1	0	0	0	0	0	0	0.55	0.43	0	0	0	0	0	0
8/13/2024 22:17	47401	PENS_T1	0	0	0	0	0	0	1.26	1.19	0	0	0	0	0	0
8/13/2024 22:17	46506	LOHA_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
8/13/2024 22:17	67605	WARW_T1	3	3	0	0.47	0.5	0.03	-0.99	-1.01	0	0	0	0	0	0
8/13/2024 22:17	44703	MUNC_T2	3	3	0	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
8/13/2024 22:17	44701	MUNC_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 22:17	64204	KINZ_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
8/13/2024 22:17	64202	KINZ_T1	3	3	0	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
8/13/2024 22:17	46504	LOHA_T1	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
8/13/2024 22:17	46203	DANV_T2	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
8/13/2024 22:17	44702	MUNC_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/13/2024 22:17	12701	MACU_T1	0	0	0	0	0	0	-1.06	-1.09	1	1	0	1200	1200	0
8/13/2024 22:17	64203	KINZ_T1	0	0	0	0	0	0	0.21	0.1	1	1	0	600	600	0
8/13/2024 22:18	66701	STRA_T1	3	3	0	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
8/13/2024 22:18	64101	REFR_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
8/13/2024 22:18	46203	DANV_T2	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
8/13/2024 22:18	66703	STRA_T1	229	240	11	0.28	0.24	-0.04	-0.82	-0.84	0	0	0	0	0	0
8/13/2024 22:18	64203	KINZ_T1	0	0	0	0	0	0	0.21	0.1	1	1	0	600	600	0
8/13/2024 22:18	66504	SMAN_T2	0	0	0	0	0	0	0.2	0.11	0	0	0	0	0	0
8/13/2024 22:18	64204	KINZ_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
8/13/2024 22:18	64201	KINZ_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
8/13/2024 22:18	64202	KINZ_T1	3	3	0	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
8/13/2024 22:19	61803	EELI_T2	0	0	0	0	0	0	0.21	0.19	1	1	0	600	600	0
8/13/2024 22:19	46504	LOHA_T1	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
8/13/2024 22:19	67602	WARW_T2	0	0	0	0	0	0	0.38	0.4	1	1	0	300	300	0
8/13/2024 22:19	46506	LOHA_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
8/13/2024 22:19	67605	WARW_T1	3	3	0	0.47	0.5	0.03	-0.99	-1.01	0	0	0	0	0	0
8/13/2024 22:19	67805	WLAN_T1	0	0	0	0	0	0	-1.16	-1.19	0	0	0	0	0	0
8/13/2024 22:19	44301	BEAV_T2	0	0	0	0	0	0	-0.32	0.03	1	1	0	600	600	0
8/13/2024 22:19	63501	HEID_TBK1-2	55	55	0	2.48	2.25	-0.23	0.69	0.68	0	0	0	0	0	0
8/13/2024 22:19	42903	MIDD_T2	2	2	0	0.15	0.35	0.2	-1.07	-1.19	1	1	0	1200	1200	0
8/13/2024 22:19	21501	CEAV_T2	0	0	0	0	0	0	0.19	0.23	1	1	0	1200	1200	0
8/13/2024 22:20	47502	NECO_T1	0	0	0	0	0	0	0.89	0.81	0	0	0	0	0	0
8/13/2024 22:20	44801	EDAN_T2	132	173	41	0.41	0.52	0.11	0	0	0	0	0	0	0	0
8/13/2024 22:20	49803	UNIV_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
8/13/2024 22:20	42802	SELI_T1	4	12	8	0.28	0.43	0.15	-2.82	-2.9	0	0	0	0	0	0
8/13/2024 22:20	43402	BENT_T1	0	0	0	0	0	0	-0.56	0.04	1	0	-1	600	0	-600
8/13/2024 22:20	44802	EDAN_T2	0	0	0	0	0	0	-0.54	-0.58	0	0	0	0	0	0
8/13/2024 22:20	49804	UNIV_T1	0	0	0	0	0	0	0.79	0.74	0	0	0	0	0	0
8/13/2024 22:21	42903	MIDD_T2	2	2	0	0.15	0.35	0.2	-1.19	-1.13	1	1	0	1200	1200	0
8/13/2024 22:21	46004	BERW_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
8/13/2024 22:21	43304	WATS_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
8/13/2024 22:21	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 22:22	46504	LOHA_T1	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
8/13/2024 22:22	41001	LAUR_T2	97	118	21	1.32	1.45	0.13	0	0	0	0	0	0	0	0
8/13/2024 22:22	44802	EDAN_T2	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
8/13/2024 22:22	44801	EDAN_T2	132	173	41	0.41	0.52	0.11	0	0	0	0	0	0	0	0
8/13/2024 22:22	41002	LAUR_T2	64	84	20	1.45	1.43	-0.02	0.14	0.13	0	0	0	0	0	0
8/13/2024 22:22	46901	MNTG_T2	0	0	0	0	0	0	0.18	-0.02	1	1	0	1200	1200	0
8/13/2024 22:22	46506	LOHA_T1	0	0	0	0	0	0	0.1	0.05	0	0	0	0	0	0
8/13/2024 22:23	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
8/13/2024 22:23	46504	LOHA_T1	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
8/13/2024 22:24	45501	DERR_T2	0	0	0	0	0	0	-0.06	-0.11	2	2	0	1800	1800	0
8/13/2024 22:25	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2024 22:25	45602	WOOL_T1	5	0	-5	0.26	0	-0.26	0.84	0.78	0	0	0	0	0	0
8/13/2024 22:25	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/13/2024 22:27	63804	HEMP_T1	1	1	0	5.5	5.7	0.2	-0.44	-0.49	0	0	0	0	0	0
8/13/2024 22:45	46501	LOHA_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
8/13/2024 22:45	46504	LOHA_T1	2	2	0	0.65	1.05	0.4	0	0	0	0	0	0	0	0
8/13/2024 22:45	46506	LOHA_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
8/13/2024 22:51	64101	REFR_T1	0	0	0	0	0	0	0.14	0.29	0	0	0	0	0	0
8/13/2024 23:13	13702	SCHN_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/13/2024 23:57	66701	STRA_T1	0	0	0	0	0	0	0.03	0.05	1	1	0	600	600	0
8/14/2024 1:53	46501	LOHA_T1	0	0	0	0	0	0	0.2	0.22	1	1	0	1200	1200	0
8/14/2024 1:53	46504	LOHA_T1	32	19	-13	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
8/14/2024 7:23	24201	PROV_T3	1	1	0	6.8	6.3	-0.5	-1.33	-1.33	1	1	0	1200	1200	0
8/14/2024 7:23	24204	PROV_T3	1	1	0	6.9	6.7	-0.2	0	0	0	0	0	0	0	0
8/14/2024 7:24	44902	SCOT_T2	0	0	0	0	0	0	-0.88	-0.81	0	0	0	0	0	0
8/14/2024 7:25	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 7:25	16301	ALPA_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
8/14/2024 7:26	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.85	1	1	0	900	900	0
8/14/2024 7:26	10504	CRAC_T1	0	0	0	0	0	0	1.29	1.27	0	0	0	0	0	0
8/14/2024 7:29	61102	BERK_T5	0	0	0	0	0	0	0.99	0.94	1	1	0	300	300	0
8/14/2024 7:29	45501	DERR_T2	0	0	0	0	0	0	0.9	0.82	2	2	0	1800	1800	0
8/14/2024 7:29	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 7:41	16301	ALPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 7:42	22002	BOHE_T1	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
8/14/2024 7:42	22003	BOHE_T1	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
8/14/2024 7:42	22001	BOHE_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 7:45	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 7:46	11103	EGYP_T1	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
8/14/2024 7:47	11103	EGYP_T1	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
8/14/2024 7:49	67605	WARW_T1	16	13	-3	0.54	0.52	-0.02	0	0	0	0	0	0	0	0
8/14/2024 7:49	67604	WARW_T1	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
8/14/2024 7:57	44301	BEAV_T2	1	1	0	3	1.4	-1.6	0	0	0	0	0	0	0	0
8/14/2024 7:58	45501	DERR_T2	0	0	0	0	0	0	0.81	0.86	2	2	0	1800	1800	0
8/14/2024 7:58	45502	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 8:05	24201	PROV_T3	1	1	0	6.1	5.8	-0.3	-1.32	-1.29	1	1	0	1200	1200	0
8/14/2024 8:05	24204	PROV_T3	1	1	0	6.5	6.1	-0.4	0	0	0	0	0	0	0	0
8/14/2024 8:05	13201	PALM_T1	0	0	0	0	0	0	-0.31	-0.22	0	0	0	0	0	0
8/14/2024 8:06	24204	PROV_T3	1	1	0	6.5	6.1	-0.4	0	0	0	0	0	0	0	0
8/14/2024 8:06	24201	PROV_T3	1	1	0	6.1	5.8	-0.3	-1.29	-1.25	1	1	0	1200	1200	0
8/14/2024 8:13	44801	EDAN_T2	8	85	77	0.2	0.49	0.29	-1.62	-1.56	0	0	0	0	0	0
8/14/2024 8:21	15603	NSTR_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
8/14/2024 8:21	15601	NSTR_T2	3	3	0	0.27	0.53	0.26	0	0	0	0	0	0	0	0
8/14/2024 8:23	45402	WBLO_T2	1	2	1	1.6	1	-0.6	-0.6	-0.61	0	0	0	0	0	0
8/14/2024 8:28	44301	BEAV_T2	1	1	0	1.4	0.1	-1.3	0	0	0	0	0	0	0	0
8/14/2024 8:29	26704	HEML_T2	0	0	0	0	0	0	-0.47	-0.45	1	1	0	1200	1200	0
8/14/2024 8:32	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 8:32	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 8:35	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 8:36	64802	MONE_T2	0	1	1	0	0.3	0.3	0.39	0.39	0	0	0	0	0	0
8/14/2024 8:36	65901	SAKR_T2	1	1	0	8	8.1	0.1	0	0	0	0	0	0	0	0
8/14/2024 8:36	65904	SAKR_T2	0	0	0	0	0	0	-1.93	-1.82	3	3	0	1500	1500	0
8/14/2024 8:38	15703	TANN_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
8/14/2024 8:38	15702	TANN_T2	0	0	0	0	0	0	-0.32	-0.28	0	0	0	0	0	0
8/14/2024 8:44	44801	EDAN_T2	84	96	12	0.47	0.56	0.09	-1.57	-1.53	0	0	0	0	0	0
8/14/2024 8:46	63403	HONY_T2	0	0	0	0	0	0	0.14	0.24	1	1	0	600	600	0
8/14/2024 8:47	13503	MCMI_T2	0	1	1	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
8/14/2024 8:47	63501	HEID_TBK1-2	55	56	1	1.25	1.23	-0.02	0.26	0.37	1	1	0	900	900	0
8/14/2024 8:48	63501	HEID_TBK1-2	55	56	1	1.25	1.23	-0.02	0.26	0.37	1	1	0	900	900	0
8/14/2024 8:55	67503	WEWI_T2	1	1	0	8.6	8.5	-0.1	0.08	0.09	0	0	0	0	0	0
8/14/2024 8:57	45502	DERR_T2	1	1	0	0.6	0.7	0.1	0.27	0.3	1	1	0	300	300	0
8/14/2024 8:57	45501	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 9:04	15702	TANN_T2	0	0	0	0	0	0	-0.28	-0.24	0	0	0	0	0	0
8/14/2024 9:04	15703	TANN_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
8/14/2024 9:05	15703	TANN_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
8/14/2024 9:05	15702	TANN_T2	0	0	0	0	0	0	-0.28	-0.24	0	0	0	0	0	0
8/14/2024 9:09	67804	WLAN_T1	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
8/14/2024 9:09	44203	POIN_T2	1	5	4	0.1	1.37	1.27	0.15	0.26	2	2	0	2100	2100	0
8/14/2024 9:10	44301	BEAV_T2	0	2	2	0	0	0	0	0	1	1	0	600	600	0
8/14/2024 9:10	67804	WLAN_T1	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
8/14/2024 9:11	44301	BEAV_T2	0	2	2	0	0	0	0	0	1	1	0	600	600	0
8/14/2024 9:12	60101	COCA_T1	0	0	0	0	0	0	0.42	0.42	1	1	0	600	600	0
8/14/2024 9:13	67804	WLAN_T1	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
8/14/2024 9:14	63401	HONY_T1	0	0	0	0	0	0	0.24	0.4	1	1	0	600	600	0
8/14/2024 9:24	43304	WATS_T2	0	0	0	0	0	0	0.74	-0.5	0	0	0	0	0	0
8/14/2024 9:26	64901	MILL_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/14/2024 9:26	44301	BEAV_T2	0	2	2	0	1.4	1.4	0	0	0	0	0	0	0	0
8/14/2024 9:26	64904	MILL_T1	2	0	-2	0.15	0	-0.15	-0.23	-0.2	0	0	0	0	0	0
8/14/2024 9:27	22001	BOHE_T1	1	3	2	0	0.35	0.35	0	0	0	0	0	0	0	0
8/14/2024 9:27	22002	BOHE_T1	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
8/14/2024 9:27	22003	BOHE_T1	100	239	139	0.18	0.43	0.25	0	0	0	0	0	0	0	0
8/14/2024 9:28	67605	WARW_T1	2	1	-1	0.15	0.1	-0.05	-0.82	-0.83	0	0	0	0	0	0
8/14/2024 9:29	67605	WARW_T1	2	1	-1	0.15	0.1	-0.05	-1.64	-1.67	0	0	0	0	0	0
8/14/2024 9:29	11507	FREE_T2	1	1	0	0.6	0.6	0	1.32	1.35	0	0	0	0	0	0
8/14/2024 9:32	64305	LINC_T1	0	0	0	0	0	0	0.06	0.09	0	0	0	0	0	0
8/14/2024 9:32	47001	HUGH_T2	3	3	0	8.53	8.7	0.17	-0.63	-0.56	0	0	0	0	0	0
8/14/2024 9:34	47001	HUGH_T2	3	3	0	8.53	8.7	0.17	-0.63	-0.56	0	0	0	0	0	0
8/14/2024 9:35	64904	MILL_T1	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
8/14/2024 9:42	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/14/2024 9:42	22001	BOHE_T1	3	4	1	0.25	0.3	0.05	-0.1	-0.12	1	1	0	600	600	0
8/14/2024 9:42	22003	BOHE_T1	197	241	44	0.32	0.43	0.11	0	0	0	0	0	0	0	0
8/14/2024 9:42	43304	WATS_T2	0	0	0	0	0	0	-0.5	-0.33	0	0	0	0	0	0
8/14/2024 9:43	22003	BOHE_T1	197	241	44	0.32	0.43	0.11	-0.18	-0.18	0	0	0	0	0	0
8/14/2024 9:43	22001	BOHE_T1	3	4	1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
8/14/2024 9:44	64602	LEOL_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
8/14/2024 9:48	16402	MOPO_T1	0	0	0	0	0	0	0.22	0.17	0	0	0	0	0	0
8/14/2024 9:50	16402	MOPO_T1	0	0	0	0	0	0	0.22	0.17	0	0	0	0	0	0
8/14/2024 9:50	64101	REFR_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
8/14/2024 9:51	64101	REFR_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
8/14/2024 9:52	64101	REFR_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
8/14/2024 9:53	66504	SMAN_T2	0	0	0	0	0	0	1.06	0.81	3	3	0	1700	1700	0
8/14/2024 9:53	64101	REFR_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
8/14/2024 9:54	66504	SMAN_T2	0	0	0	0	0	0	-1.95	-1.68	2	2	0	2400	2400	0
8/14/2024 9:55	64101	REFR_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
8/14/2024 9:55	66505	SMAN_T2	0	0	0	0	0	0	1.06	0.81	3	3	0	1700	1700	0
8/14/2024 9:56	66504	SMAN_T2	0	0	0	0	0	0	-0.98	-0.84	1	1	0	1200	1200	0
8/14/2024 9:57	16101	BING_T2	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
8/14/2024 10:00	11104	EGYP_T1	0	0	0	0	0	0	1.72	1.75	0	0	0	0	0	0
8/14/2024 10:00	65904	SAKR_T2	0	0	0	0	0	0	-1.8	-1.81	3	3	0	1500	1500	0
8/14/2024 10:00	11102	EGYP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/14/2024 10:00	64305	LINC_T1	0	1	1	0	0	0	0.16	0.26	0	0	0	0	0	0
8/14/2024 10:00	64904	MILL_T1	0	0	0	0	0	0	-0.15	-0.06	0	0	0	0	0	0
8/14/2024 10:00	45702	LIND_T2	3	3	0	0.6	0.43	-0.17	-1.65	-1.62	0	0	0	0	0	0
8/14/2024 10:00	65901	SAKR_T2	1	1	0	7.5	7.8	0.3	0	0	0	0	0	0	0	0
8/14/2024 10:00	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 10:00	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
8/14/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-0.17	-0.13	1	1	0	1200	1200	0
8/14/2024 10:00	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/14/2024 10:00	62101	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 10:07	28102	TWLA_T2	0	1	1	0	0.1	0.1	0.23	0.26	0	0	0	0	0	0
8/14/2024 10:07	66504	SMAN_T2	0	0	0	0	0	0	-0.84	-0.8	1	1	0	1200	1200	0
8/14/2024 10:07	66502	SMAN_T2	0	0	0	0	0	0	0.39	0.45	0	0	0	0	0	0
8/14/2024 10:07	12807	MICK_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
8/14/2024 10:07	67503	WEWI_T2	1	1	0	8	7.6	-0.4	0.12	0.15	0	0	0	0	0	0
8/14/2024 10:07	12801	MICK_T1	0	0	0	0	0	0	-0.47	-0.47	1	1	0	600	600	0
8/14/2024 10:07	67502	WEWI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/14/2024 10:08	65001	NEFF_T2	0	0	0	0	0	0	-0.13	-0.07	1	1	0	1200	1200	0
8/14/2024 10:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 10:10	64802	MONE_T2	1	1	0	0.5	0.6	0.1	0.46	0.47	0	0	0	0	0	0
8/14/2024 10:10	66504	SMAN_T2	0	0	0	0	0	0	-1.68	-1.59	2	2	0	2400	2400	0
8/14/2024 10:10	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
8/14/2024 10:11	44301	BEAV_T2	1	6	5	1.6	0.48	-1.12	0	0	3	3	0	1800	1800	0
8/14/2024 10:11	10801	OHIH_T1	3	3	0	0.27	0.33	0.06	-0.29	-0.3	1	1	0	900	900	0
8/14/2024 10:11	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
8/14/2024 10:12	66505	SMAN_T2	0	0	0	0	0	0	0.81	0.24	3	4	1	1700	2300	600
8/14/2024 10:13	44801	EDAN_T2	66	59	-7	0.65	0.53	-0.12	-1.45	-1.38	0	0	0	0	0	0
8/14/2024 10:13	44301	BEAV_T2	1	6	5	1.6	0.48	-1.12	0	0	0	0	0	0	0	0
8/14/2024 10:14	44801	EDAN_T2	66	59	-7	0.65	0.53	-0.12	-1.45	-1.38	0	0	0	0	0	0
8/14/2024 10:14	44301	BEAV_T2	1	6	5	1.6	0.48	-1.12	0	0	1	1	0	600	600	0
8/14/2024 10:14	67804	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/14/2024 10:14	45501	DERR_T2	1	2	1	0.6	0.5	-0.1	1.08	1	2	2	0	1800	1800	0
8/14/2024 10:14	45502	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/14/2024 10:14	67803	WLAN_T1	0	0	0	0	0	0	-0.67	-0.6	0	0	0	0	0	0
8/14/2024 10:15	67603	WARW_T1	0	0	0	0	0	0	0.12	0.18	0	0	0	0	0	0
8/14/2024 10:15	67605	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/14/2024 10:15	17802	GILB_T1	1	1	0	0.4	0.4	0	0.33	0.36	0	0	0	0	0	0
8/14/2024 10:15	16102	BING_T2	0	1	1	0	0.2	0.2	1.47	0.29	0	1	1	0	1200	1200
8/14/2024 10:15	44301	BEAV_T2	5	4	-1	0.46	0.7	0.24	0	0	1	1	0	600	600	0
8/14/2024 10:17	11507	FREE_T2	1	2	1	0.4	0.55	0.15	1.25	1.09	0	0	0	0	0	0
8/14/2024 10:19	16402	MOPO_T1	0	0	0	0	0	0	0.18	0.32	0	0	0	0	0	0
8/14/2024 10:20	44203	POIN_T2	3	5	2	1.03	1.74	0.71	0.35	0.37	2	2	0	2100	2100	0
8/14/2024 10:20	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 10:20	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 10:21	25501	MADI_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/14/2024 10:21	64101	REFR_T1	0	1	1	0	0	0	0.27	0.26	0	0	0	0	0	0
8/14/2024 10:21	25503	MADI_T1	0	1	1	0	0.1	0.1	-0.79	-0.79	0	0	0	0	0	0
8/14/2024 10:21	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 10:21	44203	POIN_T2	3	5	2	1.03	1.74	0.71	0.37	0.44	2	2	0	2100	2100	0
8/14/2024 10:21	25502	MADI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/14/2024 10:22	16402	MOPO_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
8/14/2024 10:22	44203	POIN_T2	3	5	2	1.03	1.74	0.71	0.37	0.44	2	2	0	2100	2100	0
8/14/2024 10:22	64101	REFR_T1	0	1	1	0	0	0	0.27	0.26	0	0	0	0	0	0
8/14/2024 10:22	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 10:24	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.84	-0.83	0	0	0	0	0	0
8/14/2024 10:24	64101	REFR_T1	0	1	1	0	0	0	0.53	0.53	0	0	0	0	0	0
8/14/2024 10:24	43304	WATS_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
8/14/2024 10:25	64101	REFR_T1	0	1	1	0	0	0	0.13	0.13	0	0	0	0	0	0
8/14/2024 10:25	43301	WATS_T2	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
8/14/2024 10:27	45501	DERR_T2	2	2	0	0.5	0.5	0	1	1.11	2	2	0	1800	1800	0
8/14/2024 10:31	41002	LAUR_T2	1	1	0	2.1	2.1	0	-0.81	-0.8	0	0	0	0	0	0
8/14/2024 10:32	26402	INOR_T1	0	1	1	0	0.1	0.1	-0.02	-0.03	1	1	0	600	600	0
8/14/2024 10:32	26401	INOR_T1	1	4	3	7.5	1.9	-5.6	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/14/2024 10:33	64204	KINZ_T1	2	2	0	0.4	1.2	0.8	0	0	0	0	0	0	0	0
8/14/2024 10:33	64201	KINZ_T1	0	0	0	0	0	0	-0.23	-0.25	4	4	0	2100	2100	0
8/14/2024 10:33	42801	SELI_T1	0	0	0	0	0	0	-1.44	-1.38	1	1	0	1200	1200	0
8/14/2024 10:33	64203	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/14/2024 10:34	15702	TANN_T2	0	0	0	0	0	0	-0.08	-0.14	0	0	0	0	0	0
8/14/2024 10:34	15703	TANN_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
8/14/2024 10:34	64203	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/14/2024 10:34	64201	KINZ_T1	0	0	0	0	0	0	-0.23	-0.25	4	4	0	2100	2100	0
8/14/2024 10:34	64204	KINZ_T1	2	2	0	0.4	1.2	0.8	0	0	0	0	0	0	0	0
8/14/2024 10:35	64203	KINZ_T1	1	1	0	0.7	0.8	0.1	0.51	0.27	3	3	0	2100	2100	0
8/14/2024 10:35	64204	KINZ_T1	2	2	0	0.4	1.2	0.8	0	0	0	0	0	0	0	0
8/14/2024 10:36	63403	HONY_T2	0	0	0	0	0	0	-0.22	-0.25	1	1	0	600	600	0
8/14/2024 10:37	64203	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/14/2024 10:37	64204	KINZ_T1	2	2	0	0.4	1.2	0.8	0	0	0	0	0	0	0	0
8/14/2024 10:37	64201	KINZ_T1	0	0	0	0	0	0	-0.25	-0.27	4	4	0	2100	2100	0
8/14/2024 10:38	15702	TANN_T2	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
8/14/2024 10:38	15703	TANN_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
8/14/2024 10:38	64101	REFR_T1	0	0	0	0	0	0	0.26	0.3	0	0	0	0	0	0
8/14/2024 10:39	23102	MOSC_T2	0	1	1	0	0.2	0.2	-1.05	-2.65	0	2	2	0	1800	1800
8/14/2024 10:39	15702	TANN_T2	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
8/14/2024 10:39	15703	TANN_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
8/14/2024 10:40	67605	WARW_T1	0	1	1	0	0.3	0.3	-0.81	-0.77	0	0	0	0	0	0
8/14/2024 10:42	45502	DERR_T2	0	0	0	0	0	0	0.13	0.09	1	1	0	300	300	0
8/14/2024 10:42	45501	DERR_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
8/14/2024 10:43	43304	WATS_T2	0	1	1	0	0.3	0.3	-0.34	-0.58	0	0	0	0	0	0
8/14/2024 10:43	16103	BING_T2	0	0	0	0	0	0	-1.12	-1.09	1	1	0	900	900	0
8/14/2024 10:43	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/14/2024 10:43	67605	WARW_T1	0	1	1	0	0.3	0.3	-1.61	-1.53	0	0	0	0	0	0
8/14/2024 10:44	21206	ECAR_T2	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
8/14/2024 10:44	21204	ECAR_T2	1	1	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
8/14/2024 10:47	63501	HEID_TBK1-2	55	55	0	2	2.07	0.07	0.54	0.55	1	1	0	900	900	0
8/14/2024 10:51	41702	LOGA_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/14/2024 10:52	44203	POIN_T2	5	5	0	2.24	1.46	-0.78	0	0	0	0	0	0	0	0
8/14/2024 10:52	44202	POIN_T2	0	0	0	0	0	0	-0.4	-0.3	1	1	0	1200	1200	0
8/14/2024 10:52	49803	UNIV_T1	1	3	2	6.2	1.87	-4.33	-1.98	-1.99	0	0	0	0	0	0
8/14/2024 10:53	65902	SAKR_T2	0	0	0	0	0	0	-0.93	-0.91	2	2	0	1200	1200	0
8/14/2024 10:53	65901	SAKR_T2	1	1	0	7.5	7.3	-0.2	0	0	0	0	0	0	0	0
8/14/2024 10:57	22001	BOHE_T1	5	5	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
8/14/2024 10:57	22003	BOHE_T1	189	166	-23	0.31	0.25	-0.06	-0.17	-0.17	0	0	0	0	0	0
8/14/2024 10:59	10801	CHHI_T1	4	4	0	0.33	0.33	0	-0.14	-0.08	1	1	0	900	900	0
8/14/2024 10:59	46004	BERW_T2	0	0	0	0	0	0	0	0.72	0	0	0	0	0	0
8/14/2024 11:01	10801	CHHI_T1	4	3	-1	0.38	0.33	-0.05	-0.14	-0.08	1	1	0	900	900	0
8/14/2024 11:02	21206	ECAR_T2	1	4	3	6.8	6.7	-0.1	0.42	0.42	0	0	0	0	0	0
8/14/2024 11:02	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 11:02	42802	SELI_T1	0	0	0	0	0	0	-1.32	-1.22	0	0	0	0	0	0
8/14/2024 11:02	47001	HUGH_T2	3	3	0	8.07	8.37	0.3	-0.44	-0.41	0	0	0	0	0	0
8/14/2024 11:03	42802	SELI_T1	0	0	0	0	0	0	-0.66	-0.61	0	0	0	0	0	0
8/14/2024 11:03	63501	HEID_TBK1-2	55	55	0	2.18	2.06	-0.12	0.55	0.74	1	1	0	900	900	0
8/14/2024 11:04	47001	HUGH_T2	3	3	0	8.07	8.37	0.3	-0.44	-0.41	0	0	0	0	0	0
8/14/2024 11:04	13503	MCMI_T2	0	1	1	0	0.2	0.2	0.05	0.04	0	0	0	0	0	0
8/14/2024 11:05	63501	HEID_TBK1-2	55	55	0	2.18	2.06	-0.12	0.55	0.74	1	1	0	900	900	0
8/14/2024 11:05	66502	SMAN_T2	0	0	0	0	0	0	0.63	0.42	0	0	0	0	0	0
8/14/2024 11:09	24204	PROV_T3	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
8/14/2024 11:09	13905	SEID_T1	0	0	0	0	0	0	-0.61	-0.61	1	1	0	1200	1200	0
8/14/2024 11:09	24201	PROV_T3	2	2	0	4.25	4.05	-0.2	-1.03	-1.02	1	1	0	1200	1200	0
8/14/2024 11:11	64101	REFR_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
8/14/2024 11:11	44301	BEAV_T2	2	4	2	1.45	0.93	-0.52	0	0	0	0	0	0	0	0
8/14/2024 11:12	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/14/2024 11:12	43304	WATS_T2	1	1	0	0.3	0.6	0.3	-0.63	-0.57	0	0	0	0	0	0
8/14/2024 11:13	44802	EDAN_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
8/14/2024 11:13	44801	EDAN_T2	48	44	-4	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
8/14/2024 11:14	44802	EDAN_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
8/14/2024 11:14	60801	BUCK_T1	0	0	0	0	0	0	-0.28	-0.3	1	1	0	600	600	0
8/14/2024 11:14	44801	EDAN_T2	48	44	-4	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
8/14/2024 11:15	17805	GILB_T2	0	0	0	0	0	0	0.36	0.4	0	0	0	0	0	0
8/14/2024 11:15	61502	EPET_T1	0	0	0	0	0	0	-2.27	-2.26	0	0	0	0	0	0
8/14/2024 11:16	41002	LAUR_T2	1	1	0	2.2	2.3	0.1	-1.11	-1.13	0	0	0	0	0	0
8/14/2024 11:17	44802	EDAN_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
8/14/2024 11:17	44801	EDAN_T2	43	51	8	0.38	0.38	0	0	0	0	0	0	0	0	0
8/14/2024 11:18	17805	GILB_T2	0	0	0	0	0	0	0.36	0.4	0	0	0	0	0	0
8/14/2024 11:18	49803	UNIV_T1	2	2	0	2.9	2.7	-0.2	-1.99	-1.95	0	0	0	0	0	0
8/14/2024 11:18	12701	MACU_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
8/14/2024 11:19	12701	MACU_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
8/14/2024 11:21	66703	STRA_T1	0	0	0	0	0	0	0.51	0.56	0	0	0	0	0	0
8/14/2024 11:21	28701	HAML_T2	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
8/14/2024 11:21	28702	HAML_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
8/14/2024 11:22	42001	MNVL_T2	43	54	11	0.35	0.35	0	0.03	0.07	0	0	0	0	0	0
8/14/2024 11:22	67203	TEHI_T1	7	3	-4	0.49	0.7	0.21	3.03	2.65	3	3	0	2100	2100	0
8/14/2024 11:22	42002	MNVL_T2	1	0	-1	3.9	3.8	-0.1	0	0	0	0	0	0	0	0
8/14/2024 11:22	64203	KINZ_T1	1	2	1	0.8	0.9	0.1	0.37	0.32	3	3	0	2100	2100	0
8/14/2024 11:22	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
8/14/2024 11:23	46301	ROHR_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
8/14/2024 11:23	46302	ROHR_T1	6	7	1	1.65	1.36	-0.29	0	0	0	0	0	0	0	0
8/14/2024 11:25	66703	STRA_T1	0	0	0	0	0	0	0.51	0.56	0	0	0	0	0	0
8/14/2024 11:26	10901	COOP_T2	0	0	0	0	0	0	0.17	0.26	1	1	0	1200	1200	0
8/14/2024 11:26	60201	ATGL_T2	0	0	0	0	0	0	0.11	0.14	1	1	0	300	300	0
8/14/2024 11:26	66703	STRA_T1	0	0	0	0	0	0	0.51	0.56	0	0	0	0	0	0
8/14/2024 11:28	43304	WATS_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
8/14/2024 11:28	10805	CHHI_T2	1	1	0	8.2	8.4	0.2	-0.63	-0.4	2	2	0	1800	1800	0
8/14/2024 11:28	43301	WATS_T2	1	1	0	0.2	0.1	-0.1	-0.37	-0.36	1	1	0	900	900	0
8/14/2024 11:30	23401	HONE_T2	0	0	0	0	0	0	-0.19	-0.14	0	0	0	0	0	0
8/14/2024 11:32	15203	SFAR_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/14/2024 11:33	44802	EDAN_T2	0	0	0	0	0	0	-0.33	-0.28	0	0	0	0	0	0
8/14/2024 11:33	44801	EDAN_T2	40	52	12	0.37	0.37	0	0	0	0	0	0	0	0	0
8/14/2024 11:34	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 11:34	12704	MACU_T1	0	0	0	0	0	0	-1.11	-1.09	1	1	0	600	600	0
8/14/2024 11:35	42802	SELI_T1	0	0	0	0	0	0	-1.13	-1	0	0	0	0	0	0
8/14/2024 11:35	15203	SFAR_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/14/2024 11:35	42801	SELI_T1	0	1	1	0	8.3	8.3	0	0	0	0	0	0	0	0
8/14/2024 11:36	15203	SFAR_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/14/2024 11:36	42802	SELI_T1	0	0	0	0	0	0	-1	-1.03	0	0	0	0	0	0
8/14/2024 11:36	42801	SELI_T1	0	1	1	0	8.3	8.3	0	0	0	0	0	0	0	0
8/14/2024 11:38	44703	MUNC_T2	0	0	0	0	0	0	1.14	1.17	0	0	0	0	0	0
8/14/2024 11:39	13704	SCHN_T2	0	0	0	0	0	0	0.38	0.41	0	0	0	0	0	0
8/14/2024 11:41	44301	BEAV_T2	3	5	2	1.07	0.58	-0.49	0	0	2	2	0	1200	1200	0
8/14/2024 11:41	67201	TEHI_T1	0	1	1	0	0.2	0.2	1.24	1.22	2	2	0	1500	1500	0
8/14/2024 11:41	67203	TEHI_T1	3	2	-1	1.17	0.8	-0.37	0	0	0	0	0	0	0	0
8/14/2024 11:42	44301	BEAV_T2	3	5	2	1.07	0.58	-0.49	0	0	0	0	0	0	0	0
8/14/2024 11:43	11104	EGYP_T1	5	5	0	0.84	0.36	-0.48	1.05	1.06	0	0	0	0	0	0
8/14/2024 11:43	44301	BEAV_T2	3	5	2	1.07	0.58	-0.49	0	0	2	2	0	1200	1200	0
8/14/2024 11:43	11102	EGYP_T1	1	3	2	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/14/2024 11:44	46301	ROHR_T1	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
8/14/2024 11:44	44301	BEAV_T2	3	5	2	1.07	0.58	-0.49	0	0	1	1	0	600	600	0
8/14/2024 11:44	46302	ROHR_T1	5	7	2	1.4	1.36	-0.04	0.22	0.25	0	0	0	0	0	0
8/14/2024 11:45	11104	EGYP_T1	5	5	0	1.22	0.36	-0.86	1.05	1.06	0	0	0	0	0	0
8/14/2024 11:45	10805	CHHI_T2	1	1	0	8.6	8.5	-0.1	-0.4	-0.36	2	2	0	1800	1800	0
8/14/2024 11:45	46302	ROHR_T1	7	5	-2	1.36	1.5	0.14	0.22	0.25	0	0	0	0	0	0
8/14/2024 11:45	11102	EGYP_T1	1	3	2	0.2	1.4	1.2	0	0	0	0	0	0	0	0
8/14/2024 11:45	46301	ROHR_T1	1	4	3	5.2	2.13	-3.07	0	0	0	0	0	0	0	0
8/14/2024 11:46	61801	EELI_T2	0	0	0	0	0	0	-0.22	-0.2	1	1	0	600	600	0
8/14/2024 11:46	11104	EGYP_T1	5	5	0	1.22	0.36	-0.86	1.05	1.06	0	0	0	0	0	0
8/14/2024 11:46	11102	EGYP_T1	1	3	2	0.2	1.4	1.2	0	0	0	0	0	0	0	0
8/14/2024 11:51	44903	SCOT_T1	0	0	0	0	0	0	0.76	0.81	0	0	0	0	0	0
8/14/2024 11:51	64902	MILL_T2	0	0	0	0	0	0	-0.82	-0.8	1	1	0	900	900	0
8/14/2024 11:53	14801	TREI_T2	3	6	3	0.3	0.48	0.18	0.27	0.32	0	0	0	0	0	0
8/14/2024 11:54	15201	SFAR_T1	0	0	0	0	0	0	0.85	0.85	2	2	0	1800	1800	0
8/14/2024 11:55	14705	TREX_T1	0	1	1	0	0	0	0.17	0.22	0	0	0	0	0	0
8/14/2024 11:56	46206	DANV_T2	1	2	1	1.4	0.85	-0.55	1.39	1.63	2	2	0	2100	2100	0
8/14/2024 11:56	46203	DANV_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/14/2024 11:57	46203	DANV_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/14/2024 11:57	46206	DANV_T2	1	2	1	1.4	0.85	-0.55	1.39	1.63	2	2	0	2100	2100	0
8/14/2024 11:59	47202	FAXO_T2	0	0	0	0	0	0	-0.66	-0.62	0	0	0	0	0	0
8/14/2024 11:59	17805	GILB_T2	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
8/14/2024 11:59	17804	GILB_T2	0	1	1	0	0.7	0.7	-0.42	-0.41	0	0	0	0	0	0
8/14/2024 12:00	60101	COCA_T1	2	1	-1	0.4	0.8	0.4	1.11	1.14	2	2	0	1200	1200	0
8/14/2024 12:00	17804	GILB_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
8/14/2024 12:00	17805	GILB_T2	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
8/14/2024 12:01	17805	GILB_T2	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
8/14/2024 12:01	17804	GILB_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
8/14/2024 12:01	63306	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/14/2024 12:01	63302	GREE_T1	0	0	0	0	0	0	0.26	0.07	0	0	0	0	0	0
8/14/2024 12:02	16005	DORN_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
8/14/2024 12:02	60101	COCA_T1	2	1	-1	0.4	0.8	0.4	0.55	0.57	1	1	0	600	600	0
8/14/2024 12:02	16004	DORN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/14/2024 12:04	20802	LOPO_T1	0	0	0	0	0	0	-0.49	-0.47	1	1	0	600	600	0
8/14/2024 12:05	42902	MIDD_T2	0	0	0	0	0	0	-0.22	0.28	1	1	0	600	600	0
8/14/2024 12:05	60101	COCA_T1	2	1	-1	0.4	0.8	0.4	1.11	1.14	2	2	0	1200	1200	0
8/14/2024 12:05	42903	MIDD_T2	2	4	2	0.25	0.9	0.65	1.2	0.4	1	1	0	1200	1200	0
8/14/2024 12:10	43401	BENT_T1	104	1	-103	0.86	0.6	-0.26	0	0	0	0	0	0	0	0
8/14/2024 12:10	43402	BENT_T1	7	3	-4	0.36	0.3	-0.06	0.5	0.41	0	0	0	0	0	0
8/14/2024 12:11	45501	DERR_T2	1	3	2	0.5	0.37	-0.13	1.27	1.18	2	2	0	1800	1800	0
8/14/2024 12:13	44301	BEAV_T2	5	9	4	0.58	0.66	0.08	0	0	0	0	0	0	0	0
8/14/2024 12:13	15803	WGAT_T1	0	0	0	0	0	0	2.44	2.31	0	0	0	0	0	0
8/14/2024 12:13	44302	BEAV_T2	0	6	6	0	0.63	0.63	0	0	0	0	0	0	0	0
8/14/2024 12:13	15801	WGAT_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
8/14/2024 12:13	43401	BENT_T1	104	1	-103	0.86	0.6	-0.26	0	0	0	0	0	0	0	0
8/14/2024 12:13	43402	BENT_T1	7	3	-4	0.36	0.3	-0.06	1	0.82	0	0	0	0	0	0
8/14/2024 12:14	44302	BEAV_T2	0	6	6	0	0.63	0.63	0	0	0	0	0	0	0	0
8/14/2024 12:14	44301	BEAV_T2	5	9	4	0.58	0.66	0.08	0	0	0	0	0	0	0	0
8/14/2024 12:15	60502	NMAN_T2	0	0	0	0	0	0	0.54	0.46	0	0	0	0	0	0
8/14/2024 12:15	61301	EARL_T1	0	0	0	0	0	0	-0.26	-0.26	1	1	0	900	900	0
8/14/2024 12:15	60504	NMAN_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
8/14/2024 12:17	12402	MILF_T1	41	79	38	0.56	0.61	0.05	1.17	1.27	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/14/2024 12:17	10801	CHHI_T1	5	7	2	1.2	0.99	-0.21	-0.55	-0.59	2	2	0	1500	1500	0
8/14/2024 12:18	17802	GILB_T1	2	2	0	0.5	1.05	0.55	0.36	0.34	0	0	0	0	0	0
8/14/2024 12:20	12604	MACA_T1	1	2	1	0.2	0.45	0.25	0.71	0.75	0	0	0	0	0	0
8/14/2024 12:20	12606	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 12:20	12601	MACA_T1	0	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0
8/14/2024 12:21	63202	MGTN_T2	0	0	0	0	0	0	-0.8	-0.68	1	1	0	900	900	0
8/14/2024 12:21	14203	EALL_T1	0	0	0	0	0	0	0.45	0.49	1	1	0	1200	1200	0
8/14/2024 12:22	13503	MCMI_T2	12	103	91	0.48	0.3	-0.18	-0.79	-0.77	0	0	0	0	0	0
8/14/2024 12:23	64802	MONE_T2	3	3	0	0.27	0.27	0	0.27	0.29	0	0	0	0	0	0
8/14/2024 12:24	14702	TREX_T2	0	1	1	0	0	0	1.5	1.54	0	0	0	0	0	0
8/14/2024 12:25	14303	SUMN_T1	6	6	0	3.9	4.66	0.76	0	0	0	0	0	0	0	0
8/14/2024 12:25	14702	TREX_T2	0	1	1	0	0	0	1.5	1.54	0	0	0	0	0	0
8/14/2024 12:25	14308	SUMN_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
8/14/2024 12:26	14702	TREX_T2	0	1	1	0	0	0	1.5	1.54	0	0	0	0	0	0
8/14/2024 12:28	11104	EGYP_T1	5	6	1	0.6	0.52	-0.08	1.16	1.14	0	0	0	0	0	0
8/14/2024 12:28	11102	EGYP_T1	1	3	2	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
8/14/2024 12:28	61505	EPET_T1	0	0	0	0	0	0	0.84	0.88	0	0	0	0	0	0
8/14/2024 12:28	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 12:28	17802	GILB_T1	2	2	0	0.5	1.05	0.55	0.34	0.38	0	0	0	0	0	0
8/14/2024 12:30	11101	EGYP_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
8/14/2024 12:30	11102	EGYP_T1	1	3	2	1.2	0.87	-0.33	0	0	0	0	0	0	0	0
8/14/2024 12:30	11104	EGYP_T1	5	6	1	0.52	0.86	0.34	1.16	1.14	0	0	0	0	0	0
8/14/2024 12:32	11104	EGYP_T1	5	6	1	0.52	0.86	0.34	1.16	1.14	0	0	0	0	0	0
8/14/2024 12:32	11102	EGYP_T1	1	3	2	1.2	0.87	-0.33	0	0	0	0	0	0	0	0
8/14/2024 12:32	11101	EGYP_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
8/14/2024 12:32	61306	EARL_T1	0	0	0	0	0	0	-1.16	-1.14	0	0	0	0	0	0
8/14/2024 12:36	62101	ELAN_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
8/14/2024 12:36	62102	ELAN_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/14/2024 12:36	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 12:38	49804	UNIV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/14/2024 12:38	49803	UNIV_T1	2	2	0	3.45	3.45	0	-1.78	-1.77	0	0	0	0	0	0
8/14/2024 12:40	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 12:41	60803	BUCK_T1	0	0	0	0	0	0	-0.26	-0.25	1	1	0	600	600	0
8/14/2024 12:41	60801	BUCK_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/14/2024 12:42	60801	BUCK_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/14/2024 12:42	46203	DANV_T2	1	1	0	0.1	0.1	0	-0.32	-0.32	0	0	0	0	0	0
8/14/2024 12:42	60803	BUCK_T1	0	0	0	0	0	0	-0.26	-0.25	1	1	0	600	600	0
8/14/2024 12:42	46206	DANV_T2	2	2	0	1.3	2.4	1.1	0	0	0	0	0	0	0	0
8/14/2024 12:43	60803	BUCK_T1	0	0	0	0	0	0	-0.26	-0.25	1	1	0	600	600	0
8/14/2024 12:43	60801	BUCK_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/14/2024 12:44	14702	TREX_T2	1	0	-1	2.1	0	-2.1	1.54	1.53	0	0	0	0	0	0
8/14/2024 12:45	44301	BEAV_T2	3	4	1	0.83	0.93	0.1	0	0	0	0	0	0	0	0
8/14/2024 12:45	44302	BEAV_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/14/2024 12:45	60801	BUCK_T1	0	0	0	0	0	0	-0.58	-0.45	1	1	0	600	600	0
8/14/2024 12:45	47203	FAXO_T2	0	0	0	0	0	0	-1.18	-1.16	1	1	0	1200	1200	0
8/14/2024 12:46	60803	BUCK_T1	0	0	0	0	0	0	-0.26	-0.25	1	1	0	600	600	0
8/14/2024 12:46	13705	SCHN_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
8/14/2024 12:46	11104	EGYP_T1	6	5	-1	0.82	0.8	-0.02	1.14	1.12	0	0	0	0	0	0
8/14/2024 12:46	11102	EGYP_T1	3	3	0	0.9	1	0.1	0	0	0	0	0	0	0	0
8/14/2024 12:46	13702	SCHN_T1	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
8/14/2024 12:46	11101	EGYP_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/14/2024 12:47	40901	JESH_T1	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
8/14/2024 12:47	40902	JESH_T1	0	1	1	0	0.2	0.2	-1.07	-1.27	3	3	0	1800	1800	0
8/14/2024 12:48	11101	EGYP_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/14/2024 12:48	11104	EGYP_T1	6	5	-1	0.82	0.8	-0.02	1.14	1.12	0	0	0	0	0	0
8/14/2024 12:48	11102	EGYP_T1	3	3	0	0.9	1	0.1	0	0	0	0	0	0	0	0
8/14/2024 12:49	13503	MCMI_T2	30	122	92	0.28	0.26	-0.02	-1.54	-1.49	0	0	0	0	0	0
8/14/2024 12:49	63602	LETO_T1	1	1	0	0.2	0.3	0.1	0.46	0.89	0	0	0	0	0	0
8/14/2024 12:50	40901	JESH_T1	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
8/14/2024 12:50	40902	JESH_T1	0	1	1	0	0.2	0.2	-2.13	-2.53	6	6	0	3600	3600	0
8/14/2024 12:51	63501	HEID_TBK1-2	55	55	0	2.03	2.11	0.08	0.75	0.81	1	1	0	900	900	0
8/14/2024 12:51	44703	MUNC_T2	0	0	0	0	0	0	1.03	1.08	0	0	0	0	0	0
8/14/2024 12:51	65501	MOJO_T1	0	0	0	0	0	0	-1.68	-1.52	2	2	0	1800	1800	0
8/14/2024 12:53	47401	PENS_T1	3	3	0	1.03	1.67	0.64	0.66	0.63	0	0	0	0	0	0
8/14/2024 12:53	47402	PENS_T1	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
8/14/2024 12:53	47403	PENS_T1	1	1	0	2.2	2.1	-0.1	0	0	0	0	0	0	0	0
8/14/2024 12:55	15604	NSTR_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
8/14/2024 12:56	44302	BEAV_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/14/2024 12:56	61102	BERK_T5	0	0	0	0	0	0	1.74	1.96	2	2	0	600	600	0
8/14/2024 12:56	44301	BEAV_T2	3	4	1	0.83	0.93	0.1	0	0	0	0	0	0	0	0
8/14/2024 12:57	61102	BERK_T5	0	0	0	0	0	0	1.74	1.96	2	2	0	600	600	0
8/14/2024 12:58	61102	BERK_T5	0	0	0	0	0	0	1.74	1.96	2	2	0	600	600	0
8/14/2024 13:00	43101	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/14/2024 13:00	43108	SMIL_T2	1	0	-1	0.6	0	-0.6	-0.53	-0.88	1	1	0	1200	1200	0
8/14/2024 13:00	43102	SMIL_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 13:01	61102	BERK_T5	0	0	0	0	0	0	1.74	1.96	2	2	0	600	600	0
8/14/2024 13:01	40901	JESH_T1	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
8/14/2024 13:01	40902	JESH_T1	1	1	0	0.2	0.2	0	-1.27	-1.31	3	3	0	1800	1800	0
8/14/2024 13:03	65501	MOJO_T1	0	0	0	0	0	0	-1.68	-1.52	2	2	0	1800	1800	0
8/14/2024 13:05	65901	SAKR_T2	1	1	0	7.4	7.3	-0.1	-0.6	-0.59	2	2	0	1500	1500	0
8/14/2024 13:06	44201	POIN_T1	0	0	0	0	0	0	-0.55	-0.18	2	2	0	2100	2100	0
8/14/2024 13:07	16203	POFA_T2	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/14/2024 13:07	64203	KINZ_T1	2	2	0	1.85	1.45	-0.4	0.51	0.41	3	3	0	2100	2100	0
8/14/2024 13:07	64204	KINZ_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/14/2024 13:07	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 13:07	60502	NMAN_T2	0	0	0	0	0	0	0.76	0.64	0	0	0	0	0	0
8/14/2024 13:10	16302	ALPA_T2	0	2	2	0	0.45	0.45	0.11	0.15	0	0	0	0	0	0
8/14/2024 13:13	45502	DERR_T2	15	23	8	0.34	0.3	-0.04	0	0	0	0	0	0	0	0
8/14/2024 13:13	45501	DERR_T2	4	5	1	0.43	0.63	0.2	1.21	1.16	2	2	0	1800	1800	0
8/14/2024 13:13	16302	ALPA_T2	0	2	2	0	0.45	0.45	0.22	0.3	0	0	0	0	0	0
8/14/2024 13:14	16302	ALPA_T2	0	2	2	0	0.45	0.45	0.11	0.15	0	0	0	0	0	0
8/14/2024 13:15	61703	ELIZ_T1	0	0	0	0	0	0	-2.17	-2.17	2	2	0	2100	2100	0
8/14/2024 13:15	45501	DERR_T2	4	8	4	0.5	0.78	0.28	1.21	1.16	2	2	0	1800	1800	0
8/14/2024 13:15	61701	ELIZ_T1	1	2	1	2.4	1.95	-0.45	0	0	0	0	0	0	0	0
8/14/2024 13:15	45502	DERR_T2	4	26	22	0.3	0.34	0.04	0	0	0	0	0	0	0	0
8/14/2024 13:15	44801	EDAN_T2	9	8	-1	0.53	0.4	-0.13	-1.28	-1.28	0	0	0	0	0	0
8/14/2024 13:15	43304	WATS_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
8/14/2024 13:15	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/14/2024 13:16	61701	ELIZ_T1	1	2	1	2.4	1.95	-0.45	0	0	0	0	0	0	0	0
8/14/2024 13:16	61703	ELIZ_T1	0	0	0	0	0	0	-2.17	-2.17	2	2	0	2100	2100	0
8/14/2024 13:16	63501	HEID_TBK1-2	55	56	1	2.23	2.44	0.21	0.81	0.85	1	1	0	900	900	0
8/14/2024 13:17	61102	BERK_T5	0	0	0	0	0	0	1.96	1.68	2	2	0	600	600	0
8/14/2024 13:17	61701	ELIZ_T1	1	2	1	2.4	1.95	-0.45	0	0	0	0	0	0	0	0
8/14/2024 13:17	61703	ELIZ_T1	0	0	0	0	0	0	-4.33	-4.34	4	4	0	4200	4200	0
8/14/2024 13:18	64204	KINZ_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
8/14/2024 13:18	64305	LINC_T1	1	1	0	0.8	0.6	-0.2	1.18	1.38	0	0	0	0	0	0
8/14/2024 13:18	64203	KINZ_T1	2	3	1	1.5	1.45	-0.05	0.51	0.41	3	3	0	2100	2100	0
8/14/2024 13:18	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/14/2024 13:18	43304	WATS_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
8/14/2024 13:20	64902	MILL_T2	0	0	0	0	0	0	-0.71	-0.69	1	1	0	900	900	0
8/14/2024 13:23	60301	TWVA_T2	0	0	0	0	0	0	-4.02	-3.96	3	3	0	2700	2700	0
8/14/2024 13:23	44703	MUNC_T2	0	0	0	0	0	0	1.13	1.1	0	0	0	0	0	0
8/14/2024 13:25	67801	WLAN_T1	0	1	1	0	0	0	0.33	0.35	0	0	0	0	0	0
8/14/2024 13:27	21705	SUBU_T1	1	1	0	6.1	5.6	-0.5	0.13	0.15	1	1	0	1200	1200	0
8/14/2024 13:27	21701	SUBU_T1	1	1	0	7	6.4	-0.6	0	0	0	0	0	0	0	0
8/14/2024 13:28	61102	BERK_T5	0	0	0	0	0	0	0.84	0.89	1	1	0	300	300	0
8/14/2024 13:29	16302	ALPA_T2	0	2	2	0	0.45	0.45	0.15	0.25	0	0	0	0	0	0
8/14/2024 13:29	60803	BUCK_T1	0	0	0	0	0	0	-0.22	-0.23	1	1	0	600	600	0
8/14/2024 13:29	67602	WARW_T2	0	0	0	0	0	0	1.5	1.55	3	3	0	900	900	0
8/14/2024 13:30	46004	BERW_T2	0	0	0	0	0	0	0.89	0.92	0	0	0	0	0	0
8/14/2024 13:31	63304	GREE_T1	0	0	0	0	0	0	-2.23	-2.22	1	1	0	1200	1200	0
8/14/2024 13:32	62605	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 13:32	62606	ENGL_T1	0	0	0	0	0	0	-0.34	-0.27	1	1	0	900	900	0
8/14/2024 13:32	63304	GREE_T1	0	0	0	0	0	0	-2.23	-2.22	1	1	0	1200	1200	0
8/14/2024 13:33	64203	KINZ_T1	2	3	1	1.45	1.8	0.35	0.41	0.66	3	3	0	2100	2100	0
8/14/2024 13:33	64204	KINZ_T1	1	2	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
8/14/2024 13:34	64204	KINZ_T1	1	2	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
8/14/2024 13:34	64203	KINZ_T1	2	3	1	1.45	1.8	0.35	0.41	0.66	3	3	0	2100	2100	0
8/14/2024 13:35	64305	LINC_T1	1	1	0	0.8	0.6	-0.2	0.69	0.69	0	0	0	0	0	0
8/14/2024 13:39	14802	TREI_T2	0	0	0	0	0	0	1.24	1.2	0	0	0	0	0	0
8/14/2024 13:39	14801	TREI_T2	3	2	-1	0.53	0.8	0.27	0	0	0	0	0	0	0	0
8/14/2024 13:42	46206	DANV_T2	11	19	8	0.6	0.85	0.25	1.63	1.67	2	2	0	2100	2100	0
8/14/2024 13:42	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/14/2024 13:44	46206	DANV_T2	11	19	8	0.6	0.85	0.25	1.63	1.67	2	2	0	2100	2100	0
8/14/2024 13:46	46803	HEPB_T2	1	2	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
8/14/2024 13:46	46801	HEPB_T2	2	6	4	0.8	1.17	0.37	1.17	0.15	0	0	0	0	0	0
8/14/2024 13:47	46803	HEPB_T2	1	2	1	0.5	0.35	-0.15	0.72	0.72	0	0	0	0	0	0
8/14/2024 13:47	46206	DANV_T2	17	12	-5	0.72	1.1	0.38	1.63	1.67	2	2	0	2100	2100	0
8/14/2024 13:47	46801	HEPB_T2	2	6	4	0.8	1.17	0.37	0	0	0	0	0	0	0	0
8/14/2024 13:48	40901	JESH_T1	1	1	0	2.3	1.3	-1	0.68	0.71	0	0	0	0	0	0
8/14/2024 13:48	63203	MGTN_T1	0	0	0	0	0	0	-0.38	-0.44	2	2	0	1200	1200	0
8/14/2024 13:48	40902	JESH_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/14/2024 13:49	12701	MACU_T1	0	1	1	0	0	0	-0.78	-0.76	1	1	0	1200	1200	0
8/14/2024 13:49	11804	FRAN_T1	11	5	-6	0.6	0	-0.6	1.76	1.69	0	0	0	0	0	0
8/14/2024 13:49	64203	KINZ_T1	3	4	1	1.43	1.8	0.37	0.66	0.57	3	3	0	2100	2100	0
8/14/2024 13:49	64204	KINZ_T1	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/14/2024 13:49	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 13:51	13502	MCMI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/14/2024 13:52	12701	MACU_T1	0	1	1	0	0	0	-0.76	-0.77	1	1	0	1200	1200	0
8/14/2024 13:52	13503	MCMI_T2	65	10	-55	0.25	0.45	0.2	-0.75	-0.74	0	0	0	0	0	0
8/14/2024 13:53	66701	STRA_T1	0	0	0	0	0	0	0.65	0.67	1	1	0	600	600	0
8/14/2024 13:54	13503	MCMI_T2	65	10	-55	0.25	0.45	0.2	-0.75	-0.74	0	0	0	0	0	0
8/14/2024 13:55	16302	ALPA_T2	2	10	8	0.3	0	-0.3	0.24	0	0	0	0	0	0	0
8/14/2024 13:55	66703	STRA_T1	0	0	0	0	0	0	0.1	-0.5	0	0	0	0	0	0
8/14/2024 13:56	21701	SUBU_T1	1	3	2	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
8/14/2024 13:56	21703	SUBU_T1	0	0	0	0	0	0	-0.19	-0.37	0	0	0	0	0	0
8/14/2024 13:56	21705	SUBU_T1	1	1	0	5.6	6	0.4	0	0	0	0	0	0	0	0
8/14/2024 13:57	45501	DERR_T2	8	397	389	0.51	0.62	0.11	1.21	1.23	2	2	0	1800	1800	0
8/14/2024 13:57	11104	EGYP_T1	5	8	3	1.1	1.04	-0.06	1.2	-0.13	0	1	1	0	900	900
8/14/2024 13:57	11101	EGYP_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 13:57	11102	EGYP_T1	1	18	17	0.7	0.97	0.27	0	0	0	0	0	0	0	0
8/14/2024 13:57	45502	DERR_T2	19	412	393	0.36	0.36	0	0	0	0	0	0	0	0	0
8/14/2024 13:59	66504	SMAN_T2	0	2	2	0	0.15	0.15	-0.51	-1.57	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/14/2024 13:59	66505	SMAN_T2	1	174	173	0.2	0.2	0	0	0	0	0	0	0	0	0
8/14/2024 14:00	45502	DERR_T2	25	420	395	0.36	1.51	1.15	0	0	0	0	0	0	0	0
8/14/2024 14:00	45501	DERR_T2	6	454	448	0.62	1.31	0.69	1.21	1.23	2	2	0	1800	1800	0
8/14/2024 14:01	60803	BUCK_T1	0	0	0	0	0	0	-0.22	-0.88	1	1	0	600	600	0
8/14/2024 14:01	45502	DERR_T2	25	420	395	0.36	1.51	1.15	0	0	0	0	0	0	0	0
8/14/2024 14:01	60801	BUCK_T1	0	0	0	0	0	0	-0.23	-0.21	1	1	0	600	600	0
8/14/2024 14:01	42903	MIDD_T2	0	0	0	0	0	0	1.17	1.15	1	1	0	1200	1200	0
8/14/2024 14:01	45501	DERR_T2	6	454	448	0.62	1.31	0.69	1.21	1.23	2	2	0	1800	1800	0
8/14/2024 14:01	42902	MIDD_T2	0	5	5	0	0.5	0.5	0	0	0	0	0	0	0	0
8/14/2024 14:02	46602	LACR_T1	1	0	-1	0.9	0	-0.9	-1.15	-4.1	0	0	0	0	0	0
8/14/2024 14:03	28702	HAMI_T2	0	0	0	0	0	0	0.17	-0.4	0	0	0	0	0	0
8/14/2024 14:05	64203	KINZ_T1	2	4	2	1.8	1.6	-0.2	0.57	0.64	3	3	0	2100	2100	0
8/14/2024 14:05	64204	KINZ_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
8/14/2024 14:05	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 14:06	13303	ORVI_T1	0	0	0	0	0	0	-0.76	-0.8	0	0	0	0	0	0
8/14/2024 14:06	13301	ORVI_T1	0	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0
8/14/2024 14:06	66503	MOJO_T2	0	0	0	0	0	0	-0.97	-1.02	1	1	0	900	900	0
8/14/2024 14:06	44201	POIN_T1	0	3	3	0	0.3	0.3	-1.28	-1.91	4	4	0	4200	4200	0
8/14/2024 14:06	13002	NBET_T2	0	0	0	0	0	0	-0.94	-0.96	2	2	0	2400	2400	0
8/14/2024 14:07	44201	POIN_T1	0	3	3	0	0.3	0.3	-1.92	-2.87	6	6	0	6300	6300	0
8/14/2024 14:08	26402	INOR_T1	0	2	2	0	0.5	0.5	-1.43	-1.3	1	1	0	600	600	0
8/14/2024 14:08	44201	POIN_T1	0	3	3	0	0.3	0.3	-0.64	-0.96	2	2	0	2100	2100	0
8/14/2024 14:08	26401	INOR_T1	1	37	36	5.8	0.69	-5.11	0	0	0	0	0	0	0	0
8/14/2024 14:09	49804	UNIV_T1	0	263	263	0	0.46	0.46	0.13	0.06	0	0	0	0	0	0
8/14/2024 14:09	44201	POIN_T1	0	3	3	0	0.3	0.3	-0.64	-0.96	2	2	0	2100	2100	0
8/14/2024 14:09	67106	SPRI_T2	0	0	0	0	0	0	-2	-1.99	2	2	0	1500	1500	0
8/14/2024 14:09	49803	UNIV_T1	0	3	3	0	1.5	1.5	0	0	0	0	0	0	0	0
8/14/2024 14:09	45602	WOOL_T1	0	0	0	0	0	0	1.13	1.12	0	0	0	0	0	0
8/14/2024 14:10	44201	POIN_T1	0	3	3	0	0.3	0.3	-0.64	-0.96	2	2	0	2100	2100	0
8/14/2024 14:10	16302	ALPA_T2	0	12	12	0	0.5	0.5	0	0.01	0	0	0	0	0	0
8/14/2024 14:11	11202	ELHE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 14:11	42701	AUGU_T1	0	12	12	0	0.14	0.14	0	0	2	2	0	1800	1800	0
8/14/2024 14:11	45602	WOOL_T1	0	0	0	0	0	0	1.13	1.12	0	0	0	0	0	0
8/14/2024 14:11	11201	ELHE_T2	0	0	0	0	0	0	-0.83	-0.76	3	3	0	3300	3300	0
8/14/2024 14:12	66505	SMAN_T2	1	174	173	0.2	0.56	0.36	1.2	0.59	8	8	0	4600	4600	0
8/14/2024 14:12	67202	TEHI_T2	0	1	1	0	0	0	-0.33	-0.23	4	4	0	2100	2100	0
8/14/2024 14:12	43504	WWIL_T1	0	2	2	0	0.1	0.1	1.11	1.15	0	0	0	0	0	0
8/14/2024 14:12	63403	HONY_T2	0	0	0	0	0	0	-1.1	-1.09	1	1	0	600	600	0
8/14/2024 14:12	66504	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/14/2024 14:12	43506	WWIL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/14/2024 14:12	16302	ALPA_T2	0	12	12	0	0.5	0.5	0	0.01	0	0	0	0	0	0
8/14/2024 14:12	45602	WOOL_T1	0	0	0	0	0	0	1.13	1.12	0	0	0	0	0	0
8/14/2024 14:12	67204	TEHI_T2	0	21	21	0	0.81	0.81	0	0	0	0	0	0	0	0
8/14/2024 14:12	43505	WWIL_T1	1	1	0	1.9	2.3	0.4	0	0	0	0	0	0	0	0
8/14/2024 14:13	17802	GILB_T1	0	4	4	0	1.23	1.23	-0.4	-0.41	0	0	0	0	0	0
8/14/2024 14:13	42701	AUGU_T1	0	12	12	0	0.14	0.14	0	0	2	2	0	1800	1800	0
8/14/2024 14:14	67605	WARW_T1	1	4	3	0.4	0.68	0.28	0	0	0	0	0	0	0	0
8/14/2024 14:14	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 14:14	21501	CEAV_T2	0	0	0	0	0	0	-0.28	-0.49	1	1	0	1200	1200	0
8/14/2024 14:15	44801	EDAN_T2	3	4	1	0.43	0.53	0.1	0	0	0	0	0	0	0	0
8/14/2024 14:15	44802	EDAN_T2	0	0	0	0	0	0	-0.23	-0.15	0	0	0	0	0	0
8/14/2024 14:16	67805	WLAN_T1	0	0	0	0	0	0	-0.26	-0.14	0	0	0	0	0	0
8/14/2024 14:16	11001	EGRE_T1	238	219	-19	0.81	0	-0.81	-0.02	-0.04	1	1	0	1200	1200	0
8/14/2024 14:16	67804	WLAN_T1	10	8	-2	0.64	0	-0.64	0	0	0	0	0	0	0	0
8/14/2024 14:17	40902	JESH_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/14/2024 14:17	41204	KENM_T2	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0	0
8/14/2024 14:17	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 14:17	46504	LOHA_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
8/14/2024 14:17	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 14:17	46506	LOHA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/14/2024 14:17	46503	LOHA_T1	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
8/14/2024 14:17	40901	JESH_T1	1	0	-1	1.3	1.3	0	0	0	0	0	0	0	0	0
8/14/2024 14:18	12006	HATF_T1	7	3	-4	0.43	0	-0.43	0	0	0	0	0	0	0	0
8/14/2024 14:18	12003	HATF_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 14:18	12007	HATF_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/14/2024 14:18	12002	HATF_T1	1	1	0	2.7	0	-2.7	0	0	0	0	0	0	0	0
8/14/2024 14:18	63401	HONY_T1	0	0	0	0	0	0	0.11	0	1	1	0	600	600	0
8/14/2024 14:18	12001	HATF_T1	2	4	2	1.4	0	-1.4	0.26	0.23	2	2	0	1800	1800	0
8/14/2024 14:19	12007	HATF_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/14/2024 14:19	12006	HATF_T1	7	3	-4	0.43	0	-0.43	0	0	0	0	0	0	0	0
8/14/2024 14:19	12001	HATF_T1	2	4	2	1.4	0	-1.4	0.26	0.23	2	2	0	1800	1800	0
8/14/2024 14:19	12003	HATF_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 14:19	12002	HATF_T1	1	1	0	2.7	0	-2.7	0	0	0	0	0	0	0	0
8/14/2024 14:20	65601	QVIL_T2	0	0	0	0	0	0	-0.18	-0.18	1	1	0	900	900	0
8/14/2024 14:20	46504	LOHA_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
8/14/2024 14:20	46506	LOHA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/14/2024 14:20	46801	HEPB_T2	3	65	62	0.53	0.15	-0.38	0.08	-1.11	0	0	0	0	0	0
8/14/2024 14:20	46501	LOHA_T1	0	1	1	0	0	0	0.42	0.46	1	1	0	1200	1200	0
8/14/2024 14:20	46503	LOHA_T1	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
8/14/2024 14:21	63401	HONY_T1	0	0	0	0	0	0	0.01	-0.11	2	2	0	1200	1200	0
8/14/2024 14:22	46504	LOHA_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
8/14/2024 14:22	46501	LOHA_T1	0	1	1	0	0	0	0.91	0.92	2	2	0	2400	2400	0
8/14/2024 14:22	46506	LOHA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/14/2024 14:24	42001	MNVL_T2	40	52	12	0.4	0.46	0.06	0	0	0	0	0	0	0	0
8/14/2024 14:24	43504	WWIL_T1	2	0	-2	0.1	0	-0.1	1.15	1.12	0	0	0	0	0	0
8/14/2024 14:24	43506	WWIL_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/14/2024 14:24	42802	SELI_T1	0	0	0	0	0	0	-1.57	-0.6	1	0	-1	900	0	-900
8/14/2024 14:24	42002	MNVL_T2	1	1	0	3.1	2.8	-0.3	0.33	0.24	0	0	0	0	0	0
8/14/2024 14:24	43505	WWIL_T1	1	1	0	2.3	1.7	-0.6	0	0	0	0	0	0	0	0
8/14/2024 14:25	14502	SCHO_T1	0	0	0	0	0	0	-0.11	-0.84	1	0	-1	1200	0	-1200
8/14/2024 14:28	10801	CHHI_T1	4	4	0	0.8	0.68	-0.12	-1.19	-1.19	3	3	0	2100	2100	0
8/14/2024 14:29	61303	EARL_T1	2	0	-2	0.5	0	-0.5	0.45	0.35	0	0	0	0	0	0
8/14/2024 14:29	11901	ETEX_T2	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
8/14/2024 14:29	63804	HEMP_T1	1	1	0	8.2	6.9	-1.3	-1.14	-1.03	0	0	0	0	0	0
8/14/2024 14:30	10602	BLGL_T2	16	1	-15	0.7	7.6	6.9	0.5	0.48	0	0	0	0	0	0
8/14/2024 14:31	64302	LINC_T2	1	0	-1	0.7	0	-0.7	0.74	0.82	0	0	0	0	0	0
8/14/2024 14:31	44801	EDAN_T2	4	2	-2	0.53	0.95	0.42	0	0	0	0	0	0	0	0
8/14/2024 14:31	44802	EDAN_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
8/14/2024 14:33	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/14/2024 14:33	46803	HEPB_T2	0	0	0	0	0	0	-1.28	-1.27	0	0	0	0	0	0
8/14/2024 14:33	64203	KINZ_T1	3	2	-1	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
8/14/2024 14:33	43301	WATS_T2	4	2	-2	0.65	0.45	-0.2	-0.18	-0.16	1	1	0	900	900	0
8/14/2024 14:33	64201	KINZ_T1	0	0	0	0	0	0	-0.8	-0.97	5	5	0	3300	3300	0
8/14/2024 14:33	64204	KINZ_T1	1	2	1	0.8	0.8	0	0	0	0	0	0	0	0	0
8/14/2024 14:33	46801	HEPB_T2	63	2	-61	0.42	0.6	0.18	0	0	0	0	0	0	0	0
8/14/2024 14:34	41202	KENM_T2	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
8/14/2024 14:34	44703	MUNC_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/14/2024 14:34	44701	MUNC_T2	0	0	0	0	0	0	-1.37	-0.97	0	0	0	0	0	0
8/14/2024 14:35	13503	MCMI_T2	0	89	89	0	0.27	0.27	-0.75	-0.72	0	0	0	0	0	0
8/14/2024 14:35	47401	PENS_T1	1	2	1	0.4	0	-0.4	0.48	1.83	0	0	0	0	0	0
8/14/2024 14:35	47403	PENS_T1	2	1	-1	1.05	0.9	-0.15	0	0	0	0	0	0	0	0
8/14/2024 14:35	47402	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/14/2024 14:36	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/14/2024 14:36	64204	KINZ_T1	1	2	1	0.8	0.8	0	0	0	0	0	0	0	0	0
8/14/2024 14:36	64203	KINZ_T1	3	2	-1	1.6	1.4	-0.2	0.52	0.5	3	3	0	2100	2100	0
8/14/2024 14:37	46901	MNTG_T2	0	0	0	0	0	0	1.57	1.03	2	2	0	2400	2400	0
8/14/2024 14:37	16603	PONO_T2	0	0	0	0	0	0	0.08	0.16	1	1	0	1200	1200	0
8/14/2024 14:37	46903	MNTG_T2	1	5	4	0.5	0.48	-0.02	1.14	0.46	0	1	1	0	600	600
8/14/2024 14:38	46903	MNTG_T2	1	5	4	0.5	0.48	-0.02	1.14	0.46	0	1	1	0	600	600
8/14/2024 14:38	13002	NBET_T2	0	0	0	0	0	0	-0.85	-0.89	2	2	0	2400	2400	0
8/14/2024 14:38	64101	REFR_T1	1	0	-1	0.1	0	-0.1	1.55	1.43	0	0	0	0	0	0
8/14/2024 14:39	64101	REFR_T1	1	0	-1	0.1	0	-0.1	0.52	0.48	0	0	0	0	0	0
8/14/2024 14:39	47402	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/14/2024 14:39	65802	RTWN_T2	0	1	1	0	0.2	0.2	-0.51	-0.47	0	0	0	0	0	0
8/14/2024 14:39	63602	LETO_T1	0	0	0	0	0	0	-0.21	-0.24	1	1	0	600	600	0
8/14/2024 14:39	47403	PENS_T1	2	1	-1	1.05	0.9	-0.15	0	0	0	0	0	0	0	0
8/14/2024 14:39	65803	RTWN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/14/2024 14:39	47401	PENS_T1	1	2	1	0.4	0	-0.4	1.83	1.72	0	0	0	0	0	0
8/14/2024 14:40	64101	REFR_T1	1	0	-1	0.1	0	-0.1	1.03	0.96	0	0	0	0	0	0
8/14/2024 14:41	64101	REFR_T1	1	0	-1	0.1	0	-0.1	1.03	0.96	0	0	0	0	0	0
8/14/2024 14:42	46903	MNTG_T2	1	5	4	0.5	0.48	-0.02	1.14	0.46	0	1	1	0	600	600
8/14/2024 14:42	14703	TREX_T2	1	1	0	4.1	0.6	-3.5	0	0	0	0	0	0	0	0
8/14/2024 14:42	14702	TREX_T2	0	0	0	0	0	0	0.51	0.65	0	0	0	0	0	0
8/14/2024 14:45	43301	WATS_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
8/14/2024 14:45	43304	WATS_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
8/14/2024 14:46	43301	WATS_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
8/14/2024 14:46	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 14:47	13101	NHAM_T1	6	2	-4	0.33	0.3	-0.03	-1.05	-1.13	2	2	0	2100	2100	0
8/14/2024 14:47	61801	EELI_T2	1	5	4	0.9	0.5	-0.4	-0.01	-0.11	2	2	0	1200	1200	0
8/14/2024 14:47	61802	EELI_T2	8	8	0	1.01	0.59	-0.42	0	0	0	0	0	0	0	0
8/14/2024 14:47	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 14:47	13104	NHAM_T1	0	11	11	0	0.58	0.58	0	0	0	0	0	0	0	0
8/14/2024 14:47	43301	WATS_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
8/14/2024 14:48	63804	HEMP_T1	1	1	0	6.9	6.8	-0.1	-1.03	-1.07	0	0	0	0	0	0
8/14/2024 14:48	43301	WATS_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
8/14/2024 14:48	43304	WATS_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
8/14/2024 14:48	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/14/2024 14:49	43301	WATS_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
8/14/2024 14:49	43304	WATS_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
8/14/2024 14:54	42802	SELI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 14:55	47403	PENS_T1	1	1	0	0.9	1.4	0.5	0	0	0	0	0	0	0	0
8/14/2024 14:55	15402	WALL_T1	0	1	1	0	0.1	0.1	-1.93	-1.89	1	1	0	1200	1200	0
8/14/2024 14:55	47402	PENS_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/14/2024 14:55	47401	PENS_T1	2	3	1	0.15	0.93	0.78	1.72	0.66	0	0	0	0	0	0
8/14/2024 15:00	17804	GILB_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/14/2024 15:00	15402	WALL_T1	1	0	-1	0.1	0	-0.1	-1.93	-1.89	1	1	0	1200	1200	0
8/14/2024 15:00	17805	GILB_T2	0	0	0	0	0	0	-0.28	0.61	0	0	0	0	0	0
8/14/2024 15:00	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 15:02	44801	EDAN_T2	1	2	1	1.9	0.8	-1.1	-1.19	-1.18	0	0	0	0	0	0
8/14/2024 15:03	44801	EDAN_T2	1	2	1	1.9	0.8	-1.1	-1.19	-1.18	0	0	0	0	0	0
8/14/2024 15:03	43304	WATS_T2	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
8/14/2024 15:03	43301	WATS_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/14/2024 15:04	17804	GILB_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/14/2024 15:04	17805	GILB_T2	0	0	0	0	0	0	-0.56	1.23	0	0	0	0	0	0
8/14/2024 15:04	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 15:08	21704	SUBU_T1	0	0	0	0	0	0	-1.85	-1.86	2	2	0	2400	2400	0
8/14/2024 15:08	21705	SUBU_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
8/14/2024 15:08	21701	SUBU_T1	1	1	0	6.9	7	0.1	0	0	0	0	0	0	0	0
8/14/2024 15:08	66703	STRA_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
8/14/2024 15:09	14802	TREI_T2	0	0	0	0	0	0	1.33	1.36	0	0	0	0	0	0
8/14/2024 15:09	14801	TREI_T2	1	3	2	1.2	0.67	-0.53	0	0	0	0	0	0	0	0
8/14/2024 15:09	47401	PENS_T1	0	3	3	0	0.93	0.93	0.66	0.64	0	0	0	0	0	0
8/14/2024 15:09	47403	PENS_T1	1	2	1	0.5	0.85	0.35	0	0	0	0	0	0	0	0
8/14/2024 15:10	47403	PENS_T1	1	2	1	0.5	0.85	0.35	0	0	0	0	0	0	0	0
8/14/2024 15:10	47401	PENS_T1	0	3	3	0	0.93	0.93	0.66	0.64	0	0	0	0	0	0
8/14/2024 15:10	66703	STRA_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
8/14/2024 15:12	10602	BLGL_T2	1	10	9	7.6	3.2	-4.4	1.39	1.47	0	0	0	0	0	0
8/14/2024 15:17	62601	ENGL_T1	0	0	0	0	0	0	-1.27	-1.26	0	0	0	0	0	0
8/14/2024 15:18	28805	LAKE_T1	0	1	1	0	0.8	0.8	-0.12	-0.1	0	0	0	0	0	0
8/14/2024 15:18	64305	LINC_T1	1	1	0	0.2	0.6	0.4	-0.24	-0.13	0	0	0	0	0	0
8/14/2024 15:19	64305	LINC_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
8/14/2024 15:19	13303	ORVI_T1	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
8/14/2024 15:19	28805	LAKE_T1	0	1	1	0	0.8	0.8	-0.12	-0.1	0	0	0	0	0	0
8/14/2024 15:19	64301	LINC_T1	0	0	0	0	0	0	-0.64	-0.66	1	1	0	600	600	0
8/14/2024 15:19	14402	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 15:19	14404	SSLA_T1	12	43	31	1.18	0.78	-0.4	0	0	0	0	0	0	0	0
8/14/2024 15:19	14401	SSLA_T1	1	11	10	0.3	0.24	-0.06	0.19	0.18	2	2	0	1800	1800	0
8/14/2024 15:20	13303	ORVI_T1	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
8/14/2024 15:24	14204	EALL_T2	0	0	0	0	0	0	0.04	0.1	0	0	0	0	0	0
8/14/2024 15:24	64204	KINZ_T1	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
8/14/2024 15:24	64203	KINZ_T1	2	2	0	1.8	2.05	0.25	0.44	0.65	3	3	0	2100	2100	0
8/14/2024 15:24	64202	KINZ_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/14/2024 15:25	66703	STRA_T1	0	0	0	0	0	0	-0.42	-0.48	0	0	0	0	0	0
8/14/2024 15:28	11104	EGYP_T1	5	6	1	0.52	1.17	0.65	0	0	0	0	0	0	0	0
8/14/2024 15:28	11103	EGYP_T1	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
8/14/2024 15:28	11102	EGYP_T1	1	3	2	0.9	1.2	0.3	0	0	0	0	0	0	0	0
8/14/2024 15:29	11104	EGYP_T1	5	6	1	0.52	1.17	0.65	0	0	0	0	0	0	0	0
8/14/2024 15:29	11102	EGYP_T1	1	3	2	0.9	1.2	0.3	0	0	0	0	0	0	0	0
8/14/2024 15:29	11103	EGYP_T1	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
8/14/2024 15:31	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 15:31	21206	ECAR_T2	1	2	1	6.7	6.9	0.2	0.32	0.28	0	0	0	0	0	0
8/14/2024 15:32	16007	DORN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/14/2024 15:32	16001	DORN_T1	1	0	-1	0.1	0	-0.1	-0.42	-0.42	0	0	0	0	0	0
8/14/2024 15:34	64203	KINZ_T1	2	2	0	2.25	1.2	-1.05	0.44	0.65	3	3	0	2100	2100	0
8/14/2024 15:34	64204	KINZ_T1	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
8/14/2024 15:34	46802	HEPB_T1	1	1	0	0.1	0.6	0.5	-1.19	-1.07	0	0	0	0	0	0
8/14/2024 15:34	64202	KINZ_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
8/14/2024 15:43	21501	CEAV_T2	0	0	0	0	0	0	-0.54	-0.19	1	1	0	1200	1200	0
8/14/2024 15:46	14403	SSLA_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/14/2024 15:46	14401	SSLA_T1	4	0	-4	0.33	0	-0.33	0	0	0	0	0	0	0	0
8/14/2024 15:46	14404	SSLA_T1	38	88	50	0.8	0.97	0.17	0	0	0	0	0	0	0	0
8/14/2024 15:46	14402	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/14/2024 15:46	60803	BUCK_T1	0	0	0	0	0	0	-0.83	-0.83	1	1	0	600	600	0
8/14/2024 15:48	24201	PROV_T3	1	2	1	7.6	3.95	-3.65	-1.78	-1.79	2	2	0	2100	2100	0
8/14/2024 15:48	24204	PROV_T3	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
8/14/2024 15:50	12705	MACU_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/14/2024 15:50	12702	MACU_T2	9	0	-9	0.22	0	-0.22	0	0	0	0	0	0	0	0
8/14/2024 15:50	12703	MACU_T2	45	0	-45	0.42	0	-0.42	-0.43	-0.27	0	0	0	0	0	0
8/14/2024 15:52	64101	REFR_T1	2	4	2	0.1	0.53	0.43	1.02	1.09	0	0	0	0	0	0
8/14/2024 15:53	66703	STRA_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
8/14/2024 15:53	64101	REFR_T1	2	4	2	0.1	0.53	0.43	1.02	1.09	0	0	0	0	0	0
8/14/2024 15:54	66703	STRA_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
8/14/2024 15:54	64101	REFR_T1	2	4	2	0.1	0.53	0.43	1.02	1.09	0	0	0	0	0	0
8/14/2024 15:55	60504	NMAN_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/14/2024 15:55	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 15:55	64101	REFR_T1	2	4	2	0.1	0.53	0.43	0.51	0.55	0	0	0	0	0	0
8/14/2024 15:56	47401	PENS_T1	0	1	1	0	0.1	0.1	0.6	0.6	0	0	0	0	0	0
8/14/2024 15:56	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/14/2024 15:56	60504	NMAN_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/14/2024 15:56	47403	PENS_T1	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
8/14/2024 15:56	60502	NMAN_T2	0	0	0	0	0	0	0.56	0.65	0	0	0	0	0	0
8/14/2024 15:56	64101	REFR_T1	2	4	2	0.1	0.53	0.43	0.51	0.55	0	0	0	0	0	0
8/14/2024 15:57	47403	PENS_T1	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
8/14/2024 15:57	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/14/2024 15:57	47401	PENS_T1	0	1	1	0	0.1	0.1	1.21	1.19	0	0	0	0	0	0
8/14/2024 16:00	43101	SMIL_T2	10	38	28	0.3	0.43	0.13	0	0	0	0	0	0	0	0
8/14/2024 16:00	43108	SMIL_T2	4	12	8	0.8	0.63	-0.17	-1.17	-1.13	1	1	0	1200	1200	0
8/14/2024 16:00	43104	SMIL_T2	1	3	2	0.2	0.57	0.37	0	0	0	0	0	0	0	0
8/14/2024 16:00	43102	SMIL_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 16:01	40902	JESH_T1	2	0	-2	0.55	0	-0.55	-2.67	-2.68	4	4	0	2400	2400	0
8/14/2024 16:01	40901	JESH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
8/14/2024 16:02	10805	CHIH_T2	1	1	0	7.8	7.5	-0.3	-0.99	-1.02	2	2	0	1800	1800	0
8/14/2024 16:03	64303	LINC_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
8/14/2024 16:03	10805	CHIH_T2	1	1	0	7.8	7.5	-0.3	-0.99	-1.02	2	2	0	1800	1800	0
8/14/2024 16:06	66902	SHIL_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
8/14/2024 16:06	66901	SHIL_T2	14	5	-9	0.21	0.14	-0.07	-0.75	-0.75	1	1	0	1200	1200	0
8/14/2024 16:11	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/14/2024 16:12	14802	TREI_T2	0	0	0	0	0	0	1.34	1.3	0	0	0	0	0	0
8/14/2024 16:12	14801	TREI_T2	3	7	4	0.2	0.47	0.27	0	0	0	0	0	0	0	0
8/14/2024 16:14	61701	ELIZ_T1	1	1	0	2.3	1.8	-0.5	1.13	1.11	0	0	0	0	0	0
8/14/2024 16:14	45501	DERR_T2	330	318	-12	1.47	1.53	0.06	1.03	0.86	2	2	0	1800	1800	0
8/14/2024 16:14	45502	DERR_T2	166	195	29	0.99	1.2	0.21	-0.66	-0.66	1	1	0	300	300	0
8/14/2024 16:18	61701	ELIZ_T1	1	1	0	1.8	1.5	-0.3	1.13	1.11	0	0	0	0	0	0
8/14/2024 16:19	61701	ELIZ_T1	1	1	0	1.8	1.5	-0.3	1.13	1.11	0	0	0	0	0	0
8/14/2024 16:21	40901	JESH_T1	1	2	1	2.1	2.3	0.2	0	0	0	0	0	0	0	0
8/14/2024 16:21	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 16:22	47203	FAXO_T2	1	1	0	1.2	0	-1.2	0.1	0	0	0	0	0	0	0
8/14/2024 16:24	12304	LANA_T2	112	129	17	0.63	1.2	0.57	0	0	0	0	0	0	0	0
8/14/2024 16:24	12302	LANA_T2	0	3	3	0	0	0	-1.81	-1.82	3	3	0	2700	2700	0
8/14/2024 16:24	12305	LANA_T2	23	25	2	0.89	0.8	-0.09	0	0	0	0	0	0	0	0
8/14/2024 16:25	64101	REFR_T1	3	6	3	0.53	0	-0.53	0.53	0.57	0	0	0	0	0	0
8/14/2024 16:44	45501	DERR_T2	280	248	-32	1.53	1.07	-0.46	0.72	0.71	2	2	0	1800	1800	0
8/14/2024 16:44	45502	DERR_T2	130	168	38	1.24	1.16	-0.08	0	0	0	0	0	0	0	0
8/14/2024 16:45	45501	DERR_T2	245	233	-12	1.35	0.58	-0.77	1.44	1.42	4	4	0	3600	3600	0
8/14/2024 16:45	45502	DERR_T2	166	140	-26	1.16	0.44	-0.72	0	0	0	0	0	0	0	0
8/14/2024 16:46	61701	ELIZ_T1	1	1	0	0.9	1.4	0.5	1.06	0.89	0	0	0	0	0	0
8/14/2024 16:46	61703	ELIZ_T1	0	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0
8/14/2024 16:47	11205	ELHE_T1	0	25	25	0	0.1	0.1	0.08	0.03	1	1	0	1200	1200	0
8/14/2024 16:53	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
8/14/2024 16:53	21206	ECAR_T2	1	1	0	7.1	7.2	0.1	0.13	0.15	0	0	0	0	0	0
8/14/2024 17:02	61702	ELIZ_T2	0	1	1	0	0	0	-1.31	-1.25	2	2	0	1500	1500	0
8/14/2024 17:06	61703	ELIZ_T1	1	1	0	1.9	0.8	-1.1	0	0	0	0	0	0	0	0
8/14/2024 17:06	61701	ELIZ_T1	1	1	0	1.4	0.9	-0.5	1	1.2	0	0	0	0	0	0
8/14/2024 17:10	67103	SPRI_T1	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
8/14/2024 17:11	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
8/14/2024 17:13	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
8/14/2024 17:17	17401	FOHI_T1	0	0	0	0	0	0	-1.48	-1.46	0	0	0	0	0	0
8/14/2024 17:17	61703	ELIZ_T1	1	1	0	1.8	0.8	-1	0	0	0	0	0	0	0	0
8/14/2024 17:17	61701	ELIZ_T1	1	1	0	0.9	0.9	0	1	1.2	0	0	0	0	0	0
8/14/2024 17:19	64203	KINZ_T1	0	1	1	0	0	0	-1.1	-1.32	3	3	0	2100	2100

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/14/2024 17:33	61703	ELIZ_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
8/14/2024 17:36	11205	ELHE_T1	26	0	-26	0.26	0	-0.26	0.04	0	1	1	0	1200	1200	0
8/14/2024 17:48	61703	ELIZ_T1	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
8/14/2024 17:48	28805	LAKE_T1	0	0	0	0	0	0	-0.11	-0.21	0	0	0	0	0	0
8/14/2024 17:48	61701	ELIZ_T1	1	1	0	0.6	0.9	0.3	0.92	1	0	0	0	0	0	0
8/14/2024 17:49	16002	DORN_T2	0	0	0	0	0	0	-0.01	-0.02	1	1	0	1200	1200	0
8/14/2024 17:49	16006	DORN_T2	6	4	-2	0.75	0	-0.75	0	0	0	0	0	0	0	0
8/14/2024 17:51	28805	LAKE_T1	0	0	0	0	0	0	-0.21	-0.13	0	0	0	0	0	0
8/14/2024 17:52	60803	BUCK_T1	0	0	0	0	0	0	-0.81	-0.82	1	1	0	600	600	0
8/14/2024 17:56	60701	BREC_T1	0	2	2	0	0	0	-0.49	0.09	2	1	-1	1200	600	-600
8/14/2024 17:56	22001	BOHE_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 17:56	22002	BOHE_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
8/14/2024 17:58	60701	BREC_T1	0	2	2	0	0	0	-0.49	0.09	2	1	-1	1200	600	-600
8/14/2024 17:59	60701	BREC_T1	0	2	2	0	0	0	-1.47	0.27	6	3	-3	3600	1800	-1800
8/14/2024 17:59	45702	LIND_T2	1	1	0	0.4	0.6	0.2	-0.17	-0.17	0	0	0	0	0	0
8/14/2024 18:01	61302	EARL_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/14/2024 18:01	61703	ELIZ_T1	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
8/14/2024 18:01	61701	ELIZ_T1	1	1	0	0.5	1	0.5	1	1.11	0	0	0	0	0	0
8/14/2024 18:01	61303	EARL_T1	2	2	0	0.8	0.35	-0.45	1.42	1.29	0	0	0	0	0	0
8/14/2024 18:23	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 18:24	43301	WATS_T2	0	1	1	0	0.2	0.2	-0.11	-0.13	1	1	0	900	900	0
8/14/2024 18:24	43304	WATS_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/14/2024 18:24	43302	WATS_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/14/2024 18:25	14601	SWHI_T1	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
8/14/2024 18:27	14601	SWHI_T1	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
8/14/2024 18:29	63305	GREE_T1	8	8	0	0.19	0.5	0.31	-1.49	-1.63	1	1	0	900	900	0
8/14/2024 18:29	63304	GREE_T1	0	7	7	0	0.16	0.16	0	0	0	0	0	0	0	0
8/14/2024 18:30	16006	DORN_T2	0	1	1	0	0	0	-1.06	0.19	1	0	-1	1200	0	-1200
8/14/2024 18:34	63304	GREE_T1	4	10	6	0.1	0.18	0.08	0	0	0	0	0	0	0	0
8/14/2024 18:34	63305	GREE_T1	8	15	7	0.34	0.39	0.05	-1.49	-1.63	1	1	0	900	900	0
8/14/2024 18:39	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 18:39	65602	QVIL_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/14/2024 18:39	21206	ECAR_T2	6	10	4	1.42	2.37	0.95	0.31	0.28	0	0	0	0	0	0
8/14/2024 18:39	65603	QVIL_T2	0	0	0	0	0	0	-0.45	-0.51	0	0	0	0	0	0
8/14/2024 18:39	65604	QVIL_T2	4	4	0	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
8/14/2024 19:00	11904	ETEX_T2	0	0	0	0	0	0	-0.73	-0.77	0	0	0	0	0	0
8/14/2024 19:01	61802	EELI_T2	8	8	0	0.76	0.43	-0.33	-0.2	-0.23	0	0	0	0	0	0
8/14/2024 19:01	61801	EELI_T2	2	1	-1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
8/14/2024 19:01	63304	GREE_T1	9	28	19	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
8/14/2024 19:01	63302	GREE_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
8/14/2024 19:01	63305	GREE_T1	15	16	1	0.36	0.38	0.02	0	0	0	0	0	0	0	0
8/14/2024 19:06	13202	PALM_T2	0	0	0	0	0	0	-1.66	-1.64	4	4	0	3600	3600	0
8/14/2024 19:08	13202	PALM_T2	0	0	0	0	0	0	-1.66	-1.64	4	4	0	3600	3600	0
8/14/2024 19:15	66505	SMAN_T2	2	3	1	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/14/2024 19:15	66504	SMAN_T2	8	0	-8	0.36	0	-0.36	-0.29	-0.37	1	1	0	1200	1200	0
8/14/2024 19:19	20802	LOPO_T1	0	0	0	0	0	0	-0.45	-0.45	1	1	0	600	600	0
8/14/2024 19:48	61701	ELIZ_T1	1	1	0	2	2.9	0.9	0.91	0.76	0	0	0	0	0	0
8/14/2024 20:11	66502	SMAN_T2	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
8/14/2024 20:11	66505	SMAN_T2	3	3	0	0.13	0.2	0.07	0	0	0	0	0	0	0	0
8/14/2024 20:12	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 20:12	66505	SMAN_T2	3	3	0	0.13	0.2	0.07	0	0	0	0	0	0	0	0
8/14/2024 20:14	16101	BING_T2	0	0	0	0	0	0	0.9	0.84	0	0	0	0	0	0
8/14/2024 20:14	16102	BING_T2	7	12	5	0.13	0.17	0.04	0	0	0	0	0	0	0	0
8/14/2024 20:50	63501	HEID_TBK1-2	55	55	0	2.23	1.76	-0.47	0.07	0.07	1	1	0	900	900	0
8/14/2024 21:02	67605	WARW_T1	3	0	-3	0.7	0	-0.7	-0.9	-0.92	0	0	0	0	0	0
8/14/2024 21:03	67605	WARW_T1	3	0	-3	0.7	0	-0.7	-0.9	-0.92	0	0	0	0	0	0
8/14/2024 21:05	67605	WARW_T1	3	0	-3	0.7	0	-0.7	-1.81	-1.84	0	0	0	0	0	0
8/14/2024 21:09	67605	WARW_T1	3	0	-3	0.7	0	-0.7	-0.92	-0.86	0	0	0	0	0	0
8/14/2024 21:15	24204	PROV_T3	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
8/14/2024 21:15	24201	PROV_T3	1	1	0	7.1	6.5	-0.6	-1.08	-1.11	1	1	0	1200	1200	0
8/14/2024 21:26	42001	MNVL_T2	138	230	92	0.5	0.65	0.15	0.04	0.05	0	0	0	0	0	0
8/14/2024 21:26	42002	MNVL_T2	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
8/14/2024 21:38	12704	MACU_T1	0	0	0	0	0	0	-0.58	-0.57	0	0	0	0	0	0
8/14/2024 21:44	60101	COCA_T1	0	0	0	0	0	0	0.52	0.48	1	1	0	600	600	0
8/14/2024 21:44	44301	BEAV_T2	0	0	0	0	0	0	-0.29	-0.33	1	1	0	600	600	0
8/14/2024 21:46	60101	COCA_T1	0	0	0	0	0	0	0.52	0.48	1	1	0	600	600	0
8/14/2024 21:46	44301	BEAV_T2	0	1	1	0	0	0	-0.29	-0.33	1	1	0	600	600	0
8/14/2024 21:47	44301	BEAV_T2	0	1	1	0	0	0	-0.59	-0.65	2	2	0	1200	1200	0
8/14/2024 21:48	67202	TEHI_T2	0	0	0	0	0	0	0.01	0.01	1	0	-1	900	0	-900
8/14/2024 21:48	67204	TEHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 21:48	60101	COCA_T1	0	0	0	0	0	0	1.57	1.45	3	3	0	1800	1800	0
8/14/2024 21:49	46301	ROHR_T1	1	1	0	6.2	6.6	0.4	0	0	0	0	0	0	0	0
8/14/2024 21:49	46302	ROHR_T1	4	4	0	0.95	1.58	0.63	0.19	0.19	0	0	0	0	0	0
8/14/2024 21:50	61303	EARL_T1	1	0	-1	0.7	0	-0.7	0.29	0.27	0	0	0	0	0	0
8/14/2024 21:50	65901	SAKR_T2	1	1	0	8.3	8.6	0.3	-0.61	-0.64	1	1	0	900	900	0
8/14/2024 21:50	61701	ELIZ_T1	1	1	0	3.6	3.8	0.2	0.82	0.87	0	0	0	0	0	0
8/14/2024 21:51	10602	BLGL_T2	1	1	0	8.8	9.6	0.8	0.43	0.38	0	0	0	0	0	0
8/14/2024 21:53	61303	EARL_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/14/2024 21:53	63403	HONY_T2	0	0	0	0	0	0	-0.85	-0.88	0	0	0	0	0	0
8/14/2024 21:53	61301	EARL_T1	0	0	0	0	0	0	-0.36	-0.39	1	1	0	900	900	0
8/14/2024 21:53	64301	LINC_T1	0	0	0	0	0	0	0.16	0.11	0	0	0	0	0	0
8/14/2024 21:55	16001	DORN_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
8/14/2024 21:55	12402	MILF_T1	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
8/14/2024 21:55	10801	OHHI_T1	0	0	0	0	0	0	-0.98	-1	2	2	0	1500	1500	0
8/14/2024 21:56	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 21:56	17805	GILB_T2	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
8/14/2024 21:56	11104	EGYP_T1	2	2	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/14/2024 21:56	16402	MOPO_T1	0	0	0	0	0	0	0.05	0.1	0	0	0	0	0	0
8/14/2024 21:56	14801	TREI_T2	1	1	0	1.3	1.3	0	-0.12	-0.16	0	0	0	0	0	0
8/14/2024 21:56	11103	EGYP_T1	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
8/14/2024 21:57	11103	EGYP_T1	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
8/14/2024 21:57	11104	EGYP_T1	2	2	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/14/2024 21:57	44201	POIN_T1	0	0	0	0	0	0	-1.51	-1.52	2	2	0	2100	2100	0
8/14/2024 21:58	10805	OHHI_T2	1	1	0	7.5	7.5	0	-0.6	-0.68	1	1	0	600	600	0
8/14/2024 21:58	15703	TANN_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
8/14/2024 21:58	15702	TANN_T2	0	0	0	0	0	0	-0.2	-0.27	0	0	0	0	0	0
8/14/2024 21:58	17805	GILB_T2	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
8/14/2024 21:58	17802	GILB_T1	0	4	4	0	0.18	0.18	0.37	0.36	0	0	0	0	0	0
8/14/2024 21:58	16302	ALPA_T2	0	0	0	0	0	0	-0.33	0.93	0	0	0	0	0	0
8/14/2024 21:59	21701	SUBU_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
8/14/2024 21:59	12302	LANA_T2	0	0	0	0	0	0	-2.37	-2.44	3	3	0	2700	2700	0
8/14/2024 21:59	64204	KINZ_T1	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
8/14/2024 21:59	47002	HUGH_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
8/14/2024 21:59	65902	SAKR_T2	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
8/14/2024 21:59	67603	WARW_T1	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
8/14/2024 21:59	64202	KINZ_T1	2	3	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/14/2024 21:59	61303	EARL_T1	1	0	-1	0.7	0	-0.7	0.27	0.22	0	0	0	0	0	0
8/14/2024 21:59	14502	SCHO_T1	1	0	-1	0.7	0	-0.7	0.74	0.72	0	0	0	0	0	0
8/14/2024 21:59	61102	BERK_T5	0	0	0	0	0	0	0.43	0.3	1	1	0	300	300	0
8/14/2024 21:59	66504	SMAN_T2	0	0	0	0	0	0	-1.79	-2.04	2	2	0	2400	2400	0
8/14/2024 21:59	15604	NSTR_T1	0	1	1	0	0	0	0.32	0.29	0	0	0	0	0	0
8/14/2024 21:59	11205	ELHE_T1	0	0	0	0	0	0	-0.38	-0.45	1	1	0	1200	1200	0
8/14/2024 21:59	21705	SUBU_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
8/14/2024 21:59	47001	HUGH_T2	3	3	0	8.6	8.93	0.33	-0.53	-0.66	0	0	0	0	0	0
8/14/2024 21:59	21703	SUBU_T1	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
8/14/2024 21:59	64201	KINZ_T1	1	1	0	0.3	0.8	0.5	-0.45	-0.55	3	3	0	1500	1500	0
8/14/2024 21:59	65901	SAKR_T2	1	1	0	8.3	8.6	0.3	0	0	0	0	0	0	0	0
8/14/2024 21:59	46602	LACR_T1	1	0	-1	0.1	0	-0.1	-1.11	-1.11	0	0	0	0	0	0
8/14/2024 21:59	67605	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/14/2024 22:00	11507	FREE_T2	7	3	-4	0.5	0.5	0	1.14	1.13	1	1	0	600	600	0
8/14/2024 22:00	16006	DORN_T2	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
8/14/2024 22:00	64303	LINC_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
8/14/2024 22:00	64201	KINZ_T1	1	1	0	0.7	0.8	0.1	-0.91	-1.1	6	6	0	3000	3000	0
8/14/2024 22:00	64305	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:00	64202	KINZ_T1	3	3	0	0.47	0.63	0.16	0	0	0	0	0	0	0	0
8/14/2024 22:00	46206	DANV_T2	0	0	0	0	0	0	1.53	1.51	2	2	0	2100	2100	0
8/14/2024 22:00	13503	MCMI_T2	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
8/14/2024 22:00	11901	ETEX_T2	0	0	0	0	0	0	0.5	0.55	0	0	0	0	0	0
8/14/2024 22:00	65802	RTWN_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
8/14/2024 22:00	64204	KINZ_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
8/14/2024 22:00	60701	BREC_T1	0	0	0	0	0	0	-0.25	-0.27	1	1	0	600	600	0
8/14/2024 22:01	14802	TREI_T2	0	0	0	0	0	0	0.66	0.64	0	0	0	0	0	0
8/14/2024 22:01	43401	BENT_T1	80	114	34	0.72	1.21	0.49	0	0	0	0	0	0	0	0
8/14/2024 22:01	23102	MOSC_T2	0	0	0	0	0	0	-3.15	-3.27	2	2	0	1800	1800	0
8/14/2024 22:01	61102	BERK_T5	0	0	0	0	0	0	0.43	0.3	1	1	0	300	300	0
8/14/2024 22:01	14801	TREI_T2	1	1	0	1.3	0.6	-0.7	0	0	0	0	0	0	0	0
8/14/2024 22:01	46203	DANV_T2	0	0	0	0	0	0	-0.44	-0.48	0	0	0	0	0	0
8/14/2024 22:01	43402	BENT_T1	0	0	0	0	0	0	-0.55	-0.54	1	1	0	600	600	0
8/14/2024 22:01	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:01	61702	ELIZ_T2	0	0	0	0	0	0	-1.58	-1.62	2	2	0	1500	1500	0
8/14/2024 22:01	46206	DANV_T2	0	0	0	0	0	0	1.53	1.51	2	2	0	2100	2100	0
8/14/2024 22:01	14702	TREX_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
8/14/2024 22:02	11104	EGYP_T1	0	2	2	0	0.2	0.2	0.41	0.4	0	0	0	0	0	0
8/14/2024 22:02	65003	NEFF_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/14/2024 22:02	44202	POIN_T2	1	1	0	3.1	2.6	-0.5	0	0	0	0	0	0	0	0
8/14/2024 22:02	65001	NEFF_T2	0	0	0	0	0	0	-0.31	-0.47	1	1	0	1200	1200	0
8/14/2024 22:02	44701	MUNC_T2	6	4	-2	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
8/14/2024 22:02	46802	HEPB_T1	0	0	0	0	0	0	-0.4	-0.44	0	0	0	0	0	0
8/14/2024 22:02	60801	BUCK_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
8/14/2024 22:02	64202	KINZ_T1	3	3	0	0.47	0.63	0.16	0	0	0	0	0	0	0	0
8/14/2024 22:02	13503	MCMI_T2	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
8/14/2024 22:02	46206	DANV_T2	0	0	0	0	0	0	1.53	1.51	2	2	0	2100	2100	0
8/14/2024 22:02	64204	KINZ_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
8/14/2024 22:02	64201	KINZ_T1	1	1	0	0.7	0.8	0.1	-0.45	-0.55	3	3	0	1500	1500	0
8/14/2024 22:02	60803	BUCK_T1	10	6	-4	0.31	0.2	-0.11	-1.03	-1.03	1	1	0	600	600	0
8/14/2024 22:02	44203	POIN_T2	0	0	0	0	0	0	-0.43	-0.29	2	2	0	2100	2100	0
8/14/2024 22:02	44702	MUNC_T2	67	18	-49	0.4	0.21	-0.19	0	0	0	0	0	0	0	0
8/14/2024 22:02	17805	GILB_T2	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
8/14/2024 22:02	44703	MUNC_T2	3	3	0	0.43	0.37	-0.06	0.82	0.79	0	0	0	0	0	0
8/14/2024 22:03	16302	ALPA_T2	0	0	0	0	0	0	-0.33	0.93	0	0	0	0	0	0
8/14/2024 22:03	43103	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/14/2024 22:03	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:03	46903	MNTG_T2	0	0	0	0	0	0	0.06	0.05	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/14/2024 22:03	13303	ORVI_T1	0	0	0	0	0	0	1.58	1.22	0	0	0	0	0	0
8/14/2024 22:03	21206	ECAR_T2	1	1	0	8.2	8.2	0	0.15	0.11	0	0	0	0	0	0
8/14/2024 22:03	44201	POIN_T1	0	0	0	0	0	0	-1.51	-1.52	2	2	0	2100	2100	0
8/14/2024 22:03	43102	SMIL_T2	7	8	1	0.12	0.37	0.25	0	0	0	0	0	0	0	0
8/14/2024 22:03	43108	SMIL_T2	0	0	0	0	0	0	-2.25	-2.33	2	2	0	2400	2400	0
8/14/2024 22:03	66703	STRA_T1	2	194	192	0.2	0.22	0.02	-1.34	-1.47	0	0	0	0	0	0
8/14/2024 22:03	12703	MACU_T2	0	0	0	0	0	0	-0.66	-0.7	0	0	0	0	0	0
8/14/2024 22:03	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/14/2024 22:03	66701	STRA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/14/2024 22:03	10801	CHHI_T1	0	0	0	0	0	0	-0.98	-1	2	2	0	1500	1500	0
8/14/2024 22:03	13905	SEID_T1	0	0	0	0	0	0	-0.68	-0.74	1	1	0	1200	1200	0
8/14/2024 22:03	11904	ETEX_T2	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
8/14/2024 22:03	43301	WATS_T2	0	0	0	0	0	0	-0.4	-0.42	1	1	0	900	900	0
8/14/2024 22:03	10805	CHHI_T2	1	1	0	7.5	7.4	-0.1	-0.6	-0.68	1	1	0	600	600	0
8/14/2024 22:03	45501	DERR_T2	0	0	0	0	0	0	-0.11	-0.11	2	2	0	1800	1800	0
8/14/2024 22:03	21204	ECAR_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/14/2024 22:03	43302	WATS_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
8/14/2024 22:04	65207	PRIN_T4	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/14/2024 22:04	44801	EDAN_T2	9	43	34	0.19	0.27	0.08	0	0	0	0	0	0	0	0
8/14/2024 22:04	46504	LOHA_T1	2	2	0	1.15	1.05	-0.1	0	0	0	0	0	0	0	0
8/14/2024 22:04	63203	MGTN_T1	0	0	0	0	0	0	-0.04	-0.07	1	1	0	600	600	0
8/14/2024 22:04	63305	GREE_T1	10	3	-7	0.26	0.17	-0.09	-1.94	-1.06	1	0	-1	900	0	-900
8/14/2024 22:04	65904	SAKR_T2	0	0	0	0	0	0	-1.95	-1.68	3	3	0	1500	1500	0
8/14/2024 22:04	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/14/2024 22:04	13002	NBET_T2	0	0	0	0	0	0	-1.32	-1.31	2	2	0	2400	2400	0
8/14/2024 22:04	44802	EDAN_T2	0	0	0	0	0	0	-0.44	-0.49	0	0	0	0	0	0
8/14/2024 22:04	60502	NMAN_T2	0	0	0	0	0	0	0.15	0.01	0	0	0	0	0	0
8/14/2024 22:04	61303	EARL_T1	0	0	0	0	0	0	0.27	0.22	0	0	0	0	0	0
8/14/2024 22:04	11504	FREE_T1	0	0	0	0	0	0	-2.15	-2.19	2	2	0	2100	2100	0
8/14/2024 22:04	16102	BING_T2	0	1	1	0	0.1	0.1	0.59	0.57	0	0	0	0	0	0
8/14/2024 22:04	11904	ETEX_T2	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
8/14/2024 22:04	17805	GILB_T2	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
8/14/2024 22:04	44201	POIN_T1	0	0	0	0	0	0	-1.51	-1.52	2	2	0	2100	2100	0
8/14/2024 22:04	63401	HONY_T1	0	0	0	0	0	0	0.12	-0.16	1	1	0	600	600	0
8/14/2024 22:04	41001	LAUR_T2	76	86	10	0.44	0.93	0.49	0	0	0	0	0	0	0	0
8/14/2024 22:04	61701	ELIZ_T1	1	1	0	3.8	4	0.2	0.87	0.77	0	0	0	0	0	0
8/14/2024 22:04	67203	TEHI_T1	0	0	0	0	0	0	2.83	2.47	2	2	0	1500	1500	0
8/14/2024 22:04	66902	SHIL_T2	3	148	145	0.17	0.24	0.07	0	0	0	0	0	0	0	0
8/14/2024 22:04	65901	SAKR_T2	1	1	0	8.6	7.7	-0.9	0	0	0	0	0	0	0	0
8/14/2024 22:04	12801	MICK_T1	0	0	0	0	0	0	-0.14	-0.18	0	0	0	0	0	0
8/14/2024 22:04	15604	NSTR_T1	0	1	1	0	0	0	0.32	0.29	0	0	0	0	0	0
8/14/2024 22:04	66903	SHIL_T2	7	90	83	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/14/2024 22:04	47401	PENS_T1	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
8/14/2024 22:04	46501	LOHA_T1	0	0	0	0	0	0	0.66	0.61	2	2	0	2400	2400	0
8/14/2024 22:04	63501	HEID_TBK1-2	54	55	1	1.47	1.74	0.27	-0.16	-0.14	1	1	0	900	900	0
8/14/2024 22:04	65206	PRIN_T4	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/14/2024 22:04	41002	LAUR_T2	45	55	10	0.44	0.92	0.48	0.16	0.15	0	0	0	0	0	0
8/14/2024 22:04	63202	MGTN_T2	0	0	0	0	0	0	-0.99	-0.94	1	1	0	900	900	0
8/14/2024 22:04	12807	MICK_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/14/2024 22:04	64302	LINC_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
8/14/2024 22:04	66901	SHIL_T2	73	271	198	0.2	0.43	0.23	0.19	0.2	0	0	0	0	0	0
8/14/2024 22:05	44801	EDAN_T2	9	43	34	0.19	0.27	0.08	0	0	0	0	0	0	0	0
8/14/2024 22:05	44301	BEAV_T2	0	1	1	0	0	0	-0.33	-0.69	1	1	0	600	600	0
8/14/2024 22:05	44203	POIN_T2	0	0	0	0	0	0	-0.43	-0.29	2	2	0	2100	2100	0
8/14/2024 22:05	60701	BREC_T1	0	0	0	0	0	0	-0.25	-0.27	1	1	0	600	600	0
8/14/2024 22:05	17805	GILB_T2	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
8/14/2024 22:05	17802	GILB_T1	0	4	4	0	0.18	0.18	0.37	0.36	0	0	0	0	0	0
8/14/2024 22:05	61801	EELI_T2	0	0	0	0	0	0	-0.46	-0.46	1	1	0	600	600	0
8/14/2024 22:05	13202	PALM_T2	0	0	0	0	0	0	-1.33	-1.36	3	3	0	3000	3000	0
8/14/2024 22:05	64204	KINZ_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
8/14/2024 22:05	44201	POIN_T1	0	0	0	0	0	0	-3.02	-3.03	4	4	0	4200	4200	0
8/14/2024 22:05	44802	EDAN_T2	0	0	0	0	0	0	-0.44	-0.49	0	0	0	0	0	0
8/14/2024 22:05	25503	MADI_T1	2	6	4	0.2	0.15	-0.05	-0.8	-0.8	0	0	0	0	0	0
8/14/2024 22:05	60803	BUCK_T1	10	6	-4	0.31	0.2	-0.11	0	0	0	0	0	0	0	0
8/14/2024 22:05	11104	EGYP_T1	0	2	2	0	0.2	0.2	0.41	0.4	0	0	0	0	0	0
8/14/2024 22:05	25501	MADI_T1	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0	0
8/14/2024 22:05	64203	KINZ_T1	0	0	0	0	0	0	-0.81	-0.75	2	2	0	1800	1800	0
8/14/2024 22:05	49804	UNIV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/14/2024 22:05	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:05	66505	SMAN_T2	0	0	0	0	0	0	0.04	-0.16	9	9	0	6300	6300	0
8/14/2024 22:05	61102	BERK_T5	0	0	0	0	0	0	0.43	0.3	1	1	0	300	300	0
8/14/2024 22:05	49803	UNIV_T1	1	1	0	5.9	5.3	-0.6	-1.99	-2.08	0	0	0	0	0	0
8/14/2024 22:05	64101	REFR_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
8/14/2024 22:05	44202	POIN_T2	1	1	0	3.1	2.6	-0.5	0	0	0	0	0	0	0	0
8/14/2024 22:05	45501	DERR_T2	0	0	0	0	0	0	-0.11	-0.11	2	2	0	1800	1800	0
8/14/2024 22:05	64201	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/14/2024 22:05	12001	HATF_T1	0	0	0	0	0	0	0.94	0.89	1	1	0	600	600	0
8/14/2024 22:05	16302	ALPA_T2	0	0	0	0	0	0	-0.67	1.85	0	0	0	0	0	0
8/14/2024 22:05	64202	KINZ_T1	3	3	0	0.47	0.63	0.16	0	0	0	0	0	0	0	0
8/14/2024 22:05	63401	HONY_T1	0	0	0	0	0	0	0.23	-0.31	2	2	0	1200	1200	0
8/14/2024 22:05	60801	BUCK_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
8/14/2024 22:05	63305	GREE_T1	10	3	-7	0.26	0.17	-0.09	-1.94	-1.06	1	0	-1	900	0	-900
8/14/2024 22:05	12701	MACU_T1	0	0	0	0	0	0	-1.03	-1.06	1	1	0	1200	1200	0
8/14/2024 22:05	64902	MILL_T2	0	0	0	0	0	0	-1.79	-1.7	2	2	0	1800	1800	0
8/14/2024 22:06	66504	SMAN_T2	0	0	0	0	0	0	-1.02	-0.96	1	1	0	1200	1200	0
8/14/2024 22:06	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/14/2024 22:06	64901	MILL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/14/2024 22:06	41202	KENM_T2	0	0	0	0	0	0	0.79	0.8	0	0	0	0	0	0
8/14/2024 22:06	45501	DERR_T2	0	0	0	0	0	0	-0.32	-0.33	6	6	0	5400	5400	0
8/14/2024 22:06	42802	SELI_T1	0	2	2	0	0.2	0.2	-0.86	-0.96	0	0	0	0	0	0
8/14/2024 22:06	60701	BREC_T1	0	0	0	0	0	0	-0.27	-0.32	1	1	0	600	600	0
8/14/2024 22:06	67805	WLAN_T1	0	38	38	0	0.19	0.19	0	0	0	0	0	0	0	0
8/14/2024 22:06	63305	GREE_T1	10	3	-7	0.26	0.17	-0.09	0	0	0	0	0	0	0	0
8/14/2024 22:06	67803	WLAN_T1	0	0	0	0	0	0	-1.1	-1.18	0	0	0	0	0	0
8/14/2024 22:06	61703	ELIZ_T1	0	0	0	0	0	0	-2.8	-2.56	2	2	0	2100	2100	0
8/14/2024 22:06	17401	HOHI_T1	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
8/14/2024 22:06	13503	MCMI_T2	0	0	0	0	0	0	0.05	0.09	0	0	0	0	0	0
8/14/2024 22:06	16302	ALPA_T2	0	0	0	0	0	0	0.93	0.91	0	0	0	0	0	0
8/14/2024 22:06	63304	GREE_T1	0	0	0	0	0	0	-1.29	-1.4	0	0	0	0	0	0
8/14/2024 22:06	15703	TANN_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
8/14/2024 22:06	15702	TANN_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
8/14/2024 22:06	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:06	16103	BING_T2	0	0	0	0	0	0	-1.04	-1.13	1	1	0	900	900	0
8/14/2024 22:06	61701	ELIZ_T1	1	1	0	3.8	4	0.2	0	0	0	0	0	0	0	0
8/14/2024 22:06	64101	REFR_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
8/14/2024 22:06	64904	MILL_T1	0	0	0	0	0	0	0.1	0.02	0	0	0	0	0	0
8/14/2024 22:07	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:07	45602	WOOL_T1	0	0	0	0	0	0	0.86	0.81	0	0	0	0	0	0
8/14/2024 22:07	20802	LOPO_T1	1	1	0	0.1	0.1	0	-0.48	-0.5	1	1	0	600	600	0
8/14/2024 22:07	40902	JESH_T1	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
8/14/2024 22:07	13202	PALM_T2	0	0	0	0	0	0	-1.36	-1.43	3	3	0	3000	3000	0
8/14/2024 22:07	66502	SMAN_T2	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
8/14/2024 22:07	40901	JESH_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/14/2024 22:07	42802	SELI_T1	0	2	2	0	0.2	0.2	-1.73	-1.93	0	0	0	0	0	0
8/14/2024 22:07	67602	WARW_T2	0	0	0	0	0	0	0.57	0.28	0	1	1	0	300	300
8/14/2024 22:07	15702	TANN_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
8/14/2024 22:07	46206	DANV_T2	0	0	0	0	0	0	1.51	1.44	2	2	0	2100	2100	0
8/14/2024 22:07	63602	LETO_T1	27	166	139	0.13	0.34	0.21	-0.61	-0.57	1	1	0	600	600	0
8/14/2024 22:07	60201	ATGL_T2	0	0	0	0	0	0	0.05	-0.16	1	1	0	300	300	0
8/14/2024 22:07	61102	BERK_T5	0	0	0	0	0	0	0.3	0.17	1	1	0	300	300	0
8/14/2024 22:07	66701	STRA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/14/2024 22:07	10805	CHHI_T2	1	1	0	7.5	7.4	-0.1	-0.68	-0.71	1	1	0	600	600	0
8/14/2024 22:07	47401	PENS_T1	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
8/14/2024 22:07	15703	TANN_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
8/14/2024 22:07	67106	SPRI_T2	0	0	0	0	0	0	-1.67	-1.71	2	2	0	1500	1500	0
8/14/2024 22:07	66703	STRA_T1	2	194	192	0.2	0.22	0.02	-0.73	-0.7	0	0	0	0	0	0
8/14/2024 22:07	63403	HONY_T2	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
8/14/2024 22:08	61701	ELIZ_T1	1	1	0	3.8	4	0.2	0.77	0.68	0	0	0	0	0	0
8/14/2024 22:08	11001	EGRE_T1	0	0	0	0	0	0	-0.17	-0.21	1	1	0	1200	1200	0
8/14/2024 22:08	13702	SOHN_T1	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
8/14/2024 22:08	10805	CHHI_T2	1	1	0	7.5	7.4	-0.1	-0.68	-0.71	1	1	0	600	600	0
8/14/2024 22:08	47001	HUGH_T2	3	3	0	8.43	9.03	0.6	-0.66	-0.68	0	0	0	0	0	0
8/14/2024 22:08	12701	MACU_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	1200	1200	0
8/14/2024 22:08	16402	MOPO_T1	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
8/14/2024 22:08	64101	REFR_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
8/14/2024 22:08	14202	EALL_T2	4	2	-2	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
8/14/2024 22:08	21705	SUBU_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
8/14/2024 22:08	61102	BERK_T5	0	0	0	0	0	0	0.3	0.17	1	1	0	300	300	0
8/14/2024 22:08	14204	EALL_T2	0	0	0	0	0	0	1.25	1.27	0	0	0	0	0	0
8/14/2024 22:08	14404	SSLA_T1	9	3	-6	1.37	2.8	1.43	0	0	0	0	0	0	0	0
8/14/2024 22:08	14702	TREX_T2	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
8/14/2024 22:08	21704	SUBU_T1	0	0	0	0	0	0	-2.28	-2.35	2	2	0	2400	2400	0
8/14/2024 22:08	44801	EDAN_T2	9	43	34	0.19	0.27	0.08	0	0	0	0	0	0	0	0
8/14/2024 22:08	47002	HUGH_T2	2	3	1	0.1	0.23	0.13	0	0	0	0	0	0	0	0
8/14/2024 22:08	21701	SUBU_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
8/14/2024 22:08	14401	SSLA_T1	116	13	-103	0.33	0.12	-0.21	-0.01	-0.07	2	2	0	1800	1800	0
8/14/2024 22:08	60803	BUCK_T1	10	6	-4	0.31	0.2	-0.11	-1.03	-0.38	1	1	0	600	600	0
8/14/2024 22:08	16302	ALPA_T2	0	0	0	0	0	0	0.93	0.91	0	0	0	0	0	0
8/14/2024 22:08	46901	MNTG_T2	0	0	0	0	0	0	0.21	0.37	1	1	0	1200	1200	0
8/14/2024 22:08	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/14/2024 22:08	44802	EDAN_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
8/14/2024 22:09	40901	JESH_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/14/2024 22:09	44201	POIN_T1	0	0	0	0	0	0	-1.52	-1.51	2	2	0	2100	2100	0
8/14/2024 22:09	64202	KINZ_T1	3	3	0	0.47	0.63	0.16	0	0	0	0	0	0	0	0
8/14/2024 22:09	11804	FRAN_T1	0	0	0	0	0	0	0.91	0.88	0	0	0	0	0	0
8/14/2024 22:09	46302	ROHR_T1	4	4	0	1.1	1.65	0.55	0	0	0	0	0	0	0	0
8/14/2024 22:09	45502	DERR_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
8/14/2024 22:09	12604	MACA_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
8/14/2024 22:09	13303	ORVI_T1	0	0	0	0	0	0	1.22	1.18	0	0	0	0	0	0
8/14/2024 22:09	10901	COOP_T2	0	0	0	0	0	0	0.88	0.88	0	0	0	0	0	0
8/14/2024 22:09	64204	KINZ_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
8/14/2024 22:09	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:09	64201	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/14/2024 22:09	46301	ROHR_T1	1	1	0	6.4	6.7	0.3	0.27	0.28	0	0	0	0	0	0
8/14/2024 22:09	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:09	47401	PENS_T1	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
8/14/2024 22:09	64203	KINZ_T1	0	0	0	0	0	0	-0.75	0.12	2	1	-1	1800	600	-1200
8/14/2024 22:09	60803	BUCK_T1	10	6	-4	0.31	0.2	-0.11	-1.03	-0.38	1	1	0	600	600	0
8/14/2024 22:09	42903	MIDD_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/14/2024 22:09	14702	TREX_T2	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
8/14/2024 22:09	42902	MIDD_T2	0	0	0	0	0	0	-0.77	-0.88	1	1	0	600	600	0
8/14/2024 22:09	10801	CHHI_T1	0	0	0	0	0	0	-1.99	-2.13	4	4	0	3000	3000	0
8/14/2024 22:09	64101	REFR_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
8/14/2024 22:09	45602	WOOL_T1	0	0	0	0	0	0	0.86	0.81	0	0	0	0	0	0
8/14/2024 22:10	44802	EDAN_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
8/14/2024 22:10	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:10	46801	HEPB_T2	2	2	0	0.25	0.3	0.05	-0.16	-0.18	0	0	0	0	0	0
8/14/2024 22:10	43302	WATS_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
8/14/2024 22:10	22001	BOHE_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:10	13002	NBET_T2	0	0	0	0	0	0	-1.31	-1.39	2	2	0	2400	2400	0
8/14/2024 22:10	44201	POIN_T1	0	0	0	0	0	0	-1.52	-1.51	2	2	0	2100	2100	0
8/14/2024 22:10	11104	EGYP_T1	0	2	2	0	0.2	0.2	0.4	0.39	0	0	0	0	0	0
8/14/2024 22:10	22003	BOHE_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
8/14/2024 22:10	63305	GREE_T1	10	3	-7	0.26	0.17	-0.09	0	0	0	0	0	0	0	0
8/14/2024 22:10	46903	MNTG_T2	0	0	0	0	0	0	0.05	0.05	1	1	0	600	600	0
8/14/2024 22:10	14802	TREI_T2	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
8/14/2024 22:10	61802	EELI_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
8/14/2024 22:10	13503	MCMI_T2	0	0	0	0	0	0	0.05	0.09	0	0	0	0	0	0
8/14/2024 22:10	60502	NMAN_T2	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
8/14/2024 22:10	43304	WATS_T2	0	0	0	0	0	0	-0.34	-0.51	0	0	0	0	0	0
8/14/2024 22:10	66701	STRA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/14/2024 22:10	28805	LAKE_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
8/14/2024 22:10	12701	MACU_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	1200	1200	0
8/14/2024 22:10	44701	MUNC_T2	6	4	-2	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
8/14/2024 22:10	44703	MUNC_T2	3	3	0	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
8/14/2024 22:10	44702	MUNC_T2	67	18	-49	0.4	0.21	-0.19	0	0	0	0	0	0	0	0
8/14/2024 22:10	63302	GREE_T1	0	0	0	0	0	0	0.63	0.59	0	0	0	0	0	0
8/14/2024 22:10	61701	ELIZ_T1	1	1	0	3.8	4	0.2	0	0	0	0	0	0	0	0
8/14/2024 22:10	45501	DERR_T2	0	0	0	0	0	0	-0.43	-0.43	8	8	0	7200	7200	0
8/14/2024 22:10	46803	HEPB_T2	0	0	0	0	0	0	-0.81	-0.87	0	0	0	0	0	0
8/14/2024 22:10	47401	PENS_T1	0	0	0	0	0	0	0.2	0.09	0	0	0	0	0	0
8/14/2024 22:10	44801	EDAN_T2	9	43	34	0.19	0.27	0.08	-1.52	-1.53	0	0	0	0	0	0
8/14/2024 22:10	45502	DERR_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
8/14/2024 22:10	64802	MONE_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
8/14/2024 22:10	66703	STRA_T1	2	194	192	0.2	0.22	0.02	-0.73	-0.7	0	0	0	0	0	0
8/14/2024 22:10	64801	MONE_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/14/2024 22:10	61703	ELIZ_T1	0	0	0	0	0	0	-2.8	-2.56	2	2	0	2100	2100	0
8/14/2024 22:10	46602	LACR_T1	0	0	0	0	0	0	-1.11	-1.17	0	0	0	0	0	0
8/14/2024 22:10	14801	TREI_T2	1	1	0	1.3	0.6	-0.7	0	0	0	0	0	0	0	0
8/14/2024 22:10	61102	BERK_T5	0	0	0	0	0	0	0.59	0.34	2	2	0	600	600	0
8/14/2024 22:10	43301	WATS_T2	0	0	0	0	0	0	-0.84	1.05	2	0	-2	1800	0	-1800
8/14/2024 22:11	44203	POIN_T2	0	0	0	0	0	0	-0.29	-0.44	2	2	0	2100	2100	0
8/14/2024 22:11	44202	POIN_T2	1	1	0	3.1	2.6	-0.5	0	0	0	0	0	0	0	0
8/14/2024 22:11	28805	LAKE_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
8/14/2024 22:11	16201	POFA_T2	140	174	34	0.15	0.15	0	0	0	0	0	0	0	0	0
8/14/2024 22:11	43302	WATS_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
8/14/2024 22:11	45702	LIND_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
8/14/2024 22:11	43505	WWIL_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
8/14/2024 22:11	16002	DORN_T2	0	0	0	0	0	0	-0.25	-0.34	1	1	0	1200	1200	0
8/14/2024 22:11	66701	STRA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/14/2024 22:11	43506	WWIL_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
8/14/2024 22:11	63602	LETO_T1	27	166	139	0.13	0.34	0.21	-0.61	-0.57	1	1	0	600	600	0
8/14/2024 22:11	12001	HATF_T1	0	0	0	0	0	0	0.89	0.96	1	1	0	600	600	0
8/14/2024 22:11	14702	TREX_T2	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
8/14/2024 22:11	64801	MONE_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/14/2024 22:11	14601	SWHI_T1	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
8/14/2024 22:11	66703	STRA_T1	2	194	192	0.2	0.22	0.02	-0.73	-0.7	0	0	0	0	0	0
8/14/2024 22:11	63304	GREE_T1	0	0	0	0	0	0	-1.29	-1.4	0	0	0	0	0	0
8/14/2024 22:11	16203	POFA_T2	6	1	-5	0.1	0.1	0	0	0	0	0	0	0	0	0
8/14/2024 22:11	43304	WATS_T2	0	0	0	0	0	0	-0.11	-0.17	0	0	0	0	0	0
8/14/2024 22:11	61502	EPET_T1	0	0	0	0	0	0	-1.32	-1.27	0	0	0	0	0	0
8/14/2024 22:11	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:11	63305	GREE_T1	10	3	-7	0.26	0.17	-0.09	0	0	0	0	0	0	0	0
8/14/2024 22:11	67602	WARW_T2	0	0	0	0	0	0	0.57	0.28	0	1	1	0	300	300
8/14/2024 22:11	43504	WWIL_T1	0	3	3	0	0.1	0.1	0.85	0.77	0	0	0	0	0	0
8/14/2024 22:11	15402	WALL_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
8/14/2024 22:11	64802	MONE_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
8/14/2024 22:12	44301	BEAV_T2	0	1	1	0	0	0	-0.69	-0.51	1	1	0	600	600	0
8/14/2024 22:12	64202	KINZ_T1	3	3	0	0.47	0.63	0.16	0	0	0	0	0	0	0	0
8/14/2024 22:12	64201	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/14/2024 22:12	40901	JESH_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/14/2024 22:12	64101	REFR_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
8/14/2024 22:12	41702	LOGA_T2	0	38	38	0	0.19	0.19	0	0	0	0	0	0	0	0
8/14/2024 22:12	21204	ECAR_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/14/2024 22:12	64203	KINZ_T1	0	0	0	0	0	0	-0.75	0.12	2	1	-1	1800	600	-1200
8/14/2024 22:12	60701	BREC_T1	0	0	0	0	0	0	-0.27	-0.32	1	1	0	600	600	0
8/14/2024 22:12	42802	SELI_T1	0	2	2	0	0.2	0.2	-0.86	-0.96	0	0	0	0	0	0
8/14/2024 22:12	26402	INOR_T1	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
8/14/2024 22:12	14601	SWHI_T1	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
8/14/2024 22:12	26401	INOR_T1	1	1	0	8.6	8.3	-0.3	0	0	0	0	0	0	0	0
8/14/2024 22:12	21206	ECAR_T2	1	1	0	8.2	8.2	0	0.11	0.07	0	0	0	0	0	0
8/14/2024 22:12	66703	STRA_T1	2	194	192	0.2	0.22	0.02	-0.73	-0.7	0	0	0	0	0	0
8/14/2024 22:12	46801	HEPB_T2	2	2	0	0.25	0.3	0.05	-0.16	-0.18	0	0	0	0	0	0
8/14/2024 22:12	43304	WATS_T2	0	0	0	0	0	0	-0.11	-0.17	0	0	0	0	0	0
8/14/2024 22:12	63501	HEID_TBK1-2	54	55	1	1.47	1.74	0.27	-0.14	-0.21	1	1	0	900	900	0
8/14/2024 22:12	61801	EELI_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	600	600	0
8/14/2024 22:12	44801	EDAN_T2	9	43	34	0.19	0.27	0.08	-1.52	-1.53	0	0	0	0	0	0
8/14/2024 22:12	40902	JESH_T1	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
8/14/2024 22:12	44201	POIN_T1	0	0	0	0	0	0	-1.52	-1.51	2	2	0	2100	2100	0
8/14/2024 22:12	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/14/2024 22:12	64204	KINZ_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
8/14/2024 22:12	66701	STRA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/14/2024 22:12	43302	WATS_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
8/14/2024 22:13	64201	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/14/2024 22:13	67805	WLAN_T1	0	38	38	0	0.19	0.19	0	0	0	0	0	0	0	0
8/14/2024 22:13	44301	BEAV_T2	0	1	1	0	0	0	-0.69	-0.51	1	1	0	600	600	0
8/14/2024 22:13	61701	ELIZ_T1	1	1	0	3.8	4	0.2	0	0	0	0	0	0	0	0
8/14/2024 22:13	43402	BENT_T1	0	0	0	0	0	0	-0.54	-0.57	1	1	0	600	600	0
8/14/2024 22:13	17804	GILB_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
8/14/2024 22:13	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:13	43302	WATS_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
8/14/2024 22:13	64204	KINZ_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
8/14/2024 22:13	67804	WLAN_T1	0	0	0	0	0	0	-0.64	-0.72	0	0	0	0	0	0
8/14/2024 22:13	64101	REFR_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
8/14/2024 22:13	64203	KINZ_T1	0	0	0	0	0	0	-0.75	0.12	2	1	-1	1800	600	-1200
8/14/2024 22:13	22002	BOHE_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
8/14/2024 22:13	22001	BOHE_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:13	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:13	64305	LINC_T1	0	1	1	0	0	0	-0.33	-0.35	0	0	0	0	0	0
8/14/2024 22:13	64305	LINC_T1	0	1	1	0	0	0	-0.33	-0.35	0	0	0	0	0	0
8/14/2024 22:13	64305	LINC_T1	0	1	1	0	0	0	-0.33	-0.35	0	0	0	0	0	0
8/14/2024 22:13	64305	LINC_T1	0	1	1	0	0	0	-0.33	-0.35	0	0	0	0	0	0
8/14/2024 22:13	43401	BENT_T1	80	114	34	0.72	1.21	0.49	0	0	0	0	0	0	0	0
8/14/2024 22:13	13101	NHAM_T1	0	0	0	0	0	0	-1.67	-1.79	2	2	0	2100	2100	0
8/14/2024 22:13	61703	ELIZ_T1	0	0	0	0	0	0	-2.8	-2.56	2	2	0	2100	2100	0
8/14/2024 22:13	63501	HEID_TBK1-2	54	55	1	1.47	1.74	0.27	-0.14	-0.21	1	1	0	900	900	0
8/14/2024 22:13	44801	EDAN_T2	9	43	34	0.19	0.27	0.08	-1.52	-1.53	0	0	0	0	0	0
8/14/2024 22:13	46004	BERW_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
8/14/2024 22:13	64202	KINZ_T1	3	3	0	0.47	0.63	0.16	0	0	0	0	0	0	0	0
8/14/2024 22:14	60801	BUCK_T1	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
8/14/2024 22:14	13704	SCHN_T2	0	0	0	0	0	0	-0.06	0	0	0	0	0	0	0
8/14/2024 22:14	45501	DERR_T2	0	0	0	0	0	0	-0.11	-0.11	2	2	0	1800	1800	0
8/14/2024 22:14	40901	JESH_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/14/2024 22:14	46903	MNTG_T2	0	0	0	0	0	0	0.05	0.05	1	1	0	600	600	0
8/14/2024 22:14	43304	WATS_T2	0	0	0	0	0	0	-0.11	-0.17	0	0	0	0	0	0
8/14/2024 22:14	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:14	43302	WATS_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
8/14/2024 22:14	40902	JESH_T1	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
8/14/2024 22:14	44302	BEAV_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
8/14/2024 22:14	42903	MIDD_T2	1	2	1	0.1	0.5	0.4	-1.04	-1.34	1	1	0	1200	1200	0
8/14/2024 22:14	60803	BUCK_T1	10	6	-4	0.31	0.2	-0.11	0	0	0	0	0	0	0	0
8/14/2024 22:14	47401	PENS_T1	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
8/14/2024 22:14	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:14	65503	MOJO_T2	0	0	0	0	0	0	-0.9	-0.87	1	1	0	900	900	0
8/14/2024 22:14	67805	WLAN_T1	0	38	38	0	0.19	0.19	-1.09	-1.14	0	0	0	0	0	0
8/14/2024 22:14	67103	SPRI_T1	0	0	0	0	0	0	-1.07	-1.14	0	0	0	0	0	0
8/14/2024 22:14	46901	MNTG_T2	0	0	0	0	0	0	0.21	0.37	1	1	0	1200	1200	0
8/14/2024 22:14	10801	CHHI_T1	0	0	0	0	0	0	-1	-1.07	2	2	0	1500	1500	0
8/14/2024 22:15	42802	SELI_T1	1	9	8	0.1	0.22	0.12	-1.73	-1.93	0	0	0	0	0	0
8/14/2024 22:15	44802	EDAN_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
8/14/2024 22:15	40901	JESH_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
8/14/2024 22:15	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:15	12701	MACU_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	1200	1200	0
8/14/2024 22:15	64101	REFR_T1	0	0	0	0	0	0	0.72	0.62	0	0	0	0	0	0
8/14/2024 22:15	13303	ORVI_T1	0	0	0	0	0	0	1.22	1.18	0	0	0	0	0	0
8/14/2024 22:15	43304	WATS_T2	0	0	0	0	0	0	-0.11	-0.17	0	0	0	0	0	0
8/14/2024 22:15	43302	WATS_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/14/2024 22:15	14403	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:15	46004	BERW_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
8/14/2024 22:15	14404	SSLA_T1	3	3	0	2.63	2.93	0.3	0	0	0	0	0	0	0	0
8/14/2024 22:15	14401	SSLA_T1	0	23	23	0	0.14	0.14	0	0	0	0	0	0	0	0
8/14/2024 22:15	46504	LOHA_T1	2	2	0	0.85	1.05	0.2	0	0	0	0	0	0	0	0
8/14/2024 22:15	44801	EDAN_T2	31	48	17	0.24	0.33	0.09	0	0	0	0	0	0	0	0
8/14/2024 22:15	61801	EELI_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	600	600	0
8/14/2024 22:15	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:15	40902	JESH_T1	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/14/2024 22:15	46503	LOHA_T1	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
8/14/2024 22:15	44201	POIN_T1	0	0	0	0	0	0	-1.52	-1.51	2	2	0	2100	2100	0
8/14/2024 22:16	43402	BENT_T1	0	0	0	0	0	0	-0.54	-0.57	1	1	0	600	600	0
8/14/2024 22:16	43401	BENT_T1	102	117	15	0.85	1.33	0.48	0	0	0	0	0	0	0	0
8/14/2024 22:16	64101	REFR_T1	0	0	0	0	0	0	0.48	0.41	0	0	0	0	0	0
8/14/2024 22:16	45501	DERR_T2	0	0	0	0	0	0	-0.11	-0.11	2	2	0	1800	1800	0
8/14/2024 22:16	43304	WATS_T2	0	0	0	0	0	0	-0.11	-0.17	0	0	0	0	0	0
8/14/2024 22:16	43302	WATS_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/14/2024 22:17	24201	PROV_T3	1	1	0	7.7	7.2	-0.5	-1.13	-1.2	1	1	0	1200	1200	0
8/14/2024 22:17	41001	LAUR_T2	85	86	1	0.63	0.93	0.3	0	0	0	0	0	0	0	0
8/14/2024 22:17	24204	PROV_T3	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
8/14/2024 22:17	44301	BEAV_T2	0	0	0	0	0	0	-0.69	-0.51	1	1	0	600	600	0
8/14/2024 22:17	41002	LAUR_T2	47	57	10	0.61	0.9	0.29	0.15	0.16	0	0	0	0	0	0
8/14/2024 22:18	49803	UNIV_T1	1	1	0	5.7	5	-0.7	0	0	0	0	0	0	0	0
8/14/2024 22:18	46503	LOHA_T1	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
8/14/2024 22:18	21501	CEAV_T2	0	0	0	0	0	0	-1.13	0.24	1	1	0	1200	1200	0
8/14/2024 22:18	46504	LOHA_T1	2	2	0	0.85	1.05	0.2	0	0	0	0	0	0	0	0
8/14/2024 22:18	44201	POIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:18	66504	SMAN_T2	0	0	0	0	0	0	-1.02	-0.96	1	1	0	1200	1200	0
8/14/2024 22:18	49804	UNIV_T1	1	1	0	0.2	0.4	0.2	-0.45	-0.48	0	0	0	0	0	0
8/14/2024 22:18	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:19	47401	PENS_T1	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
8/14/2024 22:19	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/14/2024 22:20	44802	EDAN_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
8/14/2024 22:20	45602	WOOL_T1	0	0	0	0	0	0	0.86	0.81	0	0	0	0	0	0
8/14/2024 22:20	42802	SELI_T1	1	9	8	0.1	0.22	0.12	-0.86	-0.96	0	0	0	0	0	0
8/14/2024 22:20	44801	EDAN_T2	31	48	17	0.24	0.33	0.09	0	0	0	0	0	0	0	0
8/14/2024 22:25	23401	HONE_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
8/14/2024 22:27	65205	PRIN_T1	1	1	0	2	1.4	-0.6	0	0	0	0	0	0	0	0
8/14/2024 22:28	42801	SELI_T1	0	0	0	0	0	0	-1.99	-1.99	1	1	0	1200	1200	0
8/14/2024 22:28	42802	SELI_T1	1	9	8	0.1	0.22	0.12	0	0	0	0	0	0	0	0
8/14/2024 22:29	14203	EALL_T1	0	0	0	0	0	0	-0.1	-0.12	1	1	0	1200	1200	0
8/14/2024 22:32	63804	HEMP_T1	1	1	0	5.9	5.9	0	-0.01	-0.03	0	0	0	0	0	0
8/14/2024 23:14	67201	TEHI_T1	0	0	0	0	0	0	-0.4	0.43	1	0	-1	900	0	-900
8/15/2024 1:13	65603	QVIL_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
8/15/2024 5:04	60701	BREC_T1	0	0	0	0	0	0	-0.03	-0.08	1	1	0	600	600	0
8/15/2024 7:12	16301	ALPA_T1	0	0	0	0	0	0	-2.14	-2.07	0	0	0	0	0	0
8/15/2024 7:21	12505	MITR_T2	0	0	0	0	0	0	1.39	1.32	0	0	0	0	0	0
8/15/2024 7:21	12502	MITR_T2	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
8/15/2024 7:24	67804	WLAN_T1	0	0	0	0	0	0	-1.07	-1.06	0	0	0	0	0	0
8/15/2024 7:25	67001	STHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/15/2024 7:25	67002	STHI_T2	0	0	0	0	0	0	1.55	1.54	0	0	0	0	0	0
8/15/2024 7:26	67001	STHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/15/2024 7:26	67804	WLAN_T1	0	0	0	0	0	0	-1.07	-1.06	0	0	0	0	0	0
8/15/2024 7:26	67002	STHI_T2	0	0	0	0	0	0	0.78	0.77	0	0	0	0	0	0
8/15/2024 7:26	62102	ELAN_T1	0	0	0	0	0	0	0.6	0.78	0	0	0	0	0	0
8/15/2024 7:26	67805	WLAN_T1	0	0	0	0	0	0	-1.1	-1	0	0	0	0	0	0
8/15/2024 7:26	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 7:28	61302	EARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/15/2024 7:28	61306	EARL_T1	0	0	0	0	0	0	-1.27	-1.27	0	0	0	0	0	0
8/15/2024 7:28	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 7:28	67804	WLAN_T1	0	0	0	0	0	0	-1.07	-1.06	0	0	0	0	0	0
8/15/2024 7:28	62102	ELAN_T1	0	0	0	0	0	0	1.79	2.33	0	0	0	0	0	0
8/15/2024 7:29	63501	HEID_TBK1-2	55	55	0	1.15	1.22	0.07	0.21	0.02	1	1	0	900	900	0
8/15/2024 7:31	64204	KINZ_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/15/2024 7:31	64202	KINZ_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
8/15/2024 7:31	64201	KINZ_T1	0	0	0	0	0	0	-0.21	-0.09	3	3	0	1500	1500	0
8/15/2024 7:36	12006	HATF_T1	0	0	0	0	0	0	0.58	0.7	1	1	0	1200	1200	0
8/15/2024 7:48	64901	MILL_T1	3	3	0	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
8/15/2024 7:48	46506	LOHA_T1	1	1	0	0.2	0.1	-0.1	-1.15	-1.14	1	1	0	900	900	0
8/15/2024 7:48	46504	LOHA_T1	2	2	0	1.15	0.85	-0.3	0	0	0	0	0	0	0	0
8/15/2024 7:48	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 7:48	64904	MILL_T1	1	0	-1	0.1	0	-0.1	-1.16	-1.11	0	0	0	0	0	0
8/15/2024 7:49	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 7:49	46504	LOHA_T1	2	2	0	1.15	0.85	-0.3	0	0	0	0	0	0	0	0
8/15/2024 7:49	46506	LOHA_T1	1	1	0	0.2	0.1	-0.1	-1.15	-1.14	1	1	0	900	900	0
8/15/2024 7:50	64901	MILL_T1	3	3	0	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
8/15/2024 7:50	64904	MILL_T1	1	0	-1	0.1	0	-0.1	-0.39	-0.37	0	0	0	0	0	0
8/15/2024 7:50	15603	NSTR_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
8/15/2024 7:50	15601	NSTR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/15/2024 7:51	64904	MILL_T1	1	0	-1	0.1	0	-0.1	-0.37	-0.3	0	0	0	0	0	0
8/15/2024 7:51	64901	MILL_T1	3	3	0	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
8/15/2024 7:54	45602	WOOL_T1	2	1	-1	0.2	0.3	0.1	0.72	0.73	0	0	0	0	0	0
8/15/2024 7:54	13301	ORVI_T1	0	0	0	0	0	0	0.42	0.56	0	0	0	0	0	0
8/15/2024 7:54	44902	SCOT_T2	0	0	0	0	0	0	-0.82	-0.78	0	0	0	0	0	0
8/15/2024 7:56	62104	ELAN_T1	0	0	0	0	0	0	0.77	0.91	2	2	0	1500	1500	0
8/15/2024 7:58	62104	ELAN_T1	0	0	0	0	0	0	0.77	0.91	2	2	0	1500	1500	0
8/15/2024 8:00	10801	CHHI_T1	0	0	0	0	0	0	-0.92	-0.83	1	1	0	900	900	0
8/15/2024 8:01	45602	WOOL_T1	1	1	0	0.2	0.3	0.1	0.72	0.73	0	0	0	0	0	0
8/15/2024 8:02	63501	HEID_TBK1-2	55	55	0	1.35	1.13	-0.22	0.08	0.13	1	1	0	900	900	0
8/15/2024 8:04	46501	LOHA_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/15/2024 8:04	46506	LOHA_T1	0	1	1	0	0.1	0.1	-1.14	-1.13	1	1	0	900	900	0
8/15/2024 8:04	46504	LOHA_T1	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
8/15/2024 8:06	16605	PONO_T1	0	0	0	0	0	0	-0.2	-0.2	1	1	0	1200	1200	0
8/15/2024 8:06	46501	LOHA_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/15/2024 8:06	46506	LOHA_T1	0	1	1	0	0.1	0.1	-1.13	-1.1	1	1	0	900	900	0
8/15/2024 8:06	46504	LOHA_T1	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
8/15/2024 8:10	14401	SSLA_T1	200	148	-52	0.42	0.4	-0.02	0	0	0	0	0	0	0	0
8/15/2024 8:10	14404	SSLA_T1	1	12	11	4.7	1.18	-3.52	0.71	0.72	0	1	1	0	900	900
8/15/2024 8:13	14401	SSLA_T1	200	148	-52	0.42	0.4	-0.02	0	0	0	0	0	0	0	0
8/15/2024 8:13	14404	SSLA_T1	1	12	11	4.7	1.18	-3.52	0.71	0.72	0	1	1	0	900	900
8/15/2024 8:27	45502	DERR_T2	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
8/15/2024 8:27	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 8:27	45501	DERR_T2	0	0	0	0	0	0	0.74	0.61	2	2	0	1800	1800	0
8/15/2024 8:29	44801	EDAN_T2	47	52	5	0.38	0.46	0.08	-1.55	-1.53	0	0	0	0	0	0
8/15/2024 8:30	45501	DERR_T2	0	0	0	0	0	0	0.74	0.61	2	2	0	1800	1800	0
8/15/2024 8:30	45502	DERR_T2	2	1	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/15/2024 8:31	44801	EDAN_T2	45	54	9	0.3	0.46	0.16	-1.55	-1.53	0	0	0	0	0	0
8/15/2024 8:34	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/15/2024 8:38	67002	STHI_T2	0	4	4	0	0.18	0.18	0.92	0.92	0	0	0	0	0	0
8/15/2024 8:38	67001	STHI_T2	1	75	74	0.1	0.12	0.02	0.13	0.17	0	0	0	0	0	0
8/15/2024 8:39	67002	STHI_T2	0	4	4	0	0.18	0.18	0.92	0.92	0	0	0	0	0	0
8/15/2024 8:39	67001	STHI_T2	1	75	74	0.1	0.12	0.02	0	0	0	0	0	0	0	0
8/15/2024 8:40	67804	WLAN_T1	0	0	0	0	0	0	-1.01	-0.97	0	0	0	0	0	0
8/15/2024 8:41	44301	BEAV_T2	0	0	0	0	0	0	0.43	0.54	2	2	0	1500	1500	0
8/15/2024 8:41	67804	WLAN_T1	0	0	0	0	0	0	-1.01	-0.97	0	0	0	0	0	0
8/15/2024 8:43	67804	WLAN_T1	0	0	0	0	0	0	-1.01	-0.97	0	0	0	0	0	0
8/15/2024 8:46	23401	HONE_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
8/15/2024 8:52	46301	ROHR_T1	3	103	100	2.7	0.29	-2.41	0.25	0.29	0	0	0	0	0	0
8/15/2024 8:52	46302	ROHR_T1	4	5	1	1.85	1.94	0.09	0	0	0	0	0	0	0	0
8/15/2024 8:53	46301	ROHR_T1	3	103	100	2.7	0.29	-2.41	0	0	0	0	0	0	0	0
8/15/2024 8:53	46302	ROHR_T1	4	5	1	1.85	1.94	0.09	0.15	0.17	0	0	0	0	0	0
8/15/2024 8:54	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/15/2024 8:54	43106	SMIL_T2	0	0	0	0	0	0	-0.86	-0.87	2	2	0	2400	2400	0
8/15/2024 8:54	43102	SMIL_T2	4	4	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/15/2024 8:54	43103	SMIL_T2	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
8/15/2024 8:55	46302	ROHR_T1	4	5	1	1.85	1.94	0.09	0.15	0.17	0	0	0	0	0	0
8/15/2024 8:55	46301	ROHR_T1	3	103	100	2.7	0.29	-2.41	0	0	0	0	0	0	0	0
8/15/2024 8:56	44301	BEAV_T2	0	0	0	0	0	0	0.54	0.47	2	2	0	1500	1500	0
8/15/2024 8:59	61301	EARL_T1	0	0	0	0	0	0	-0.94	-0.96	2	2	0	1800	1800	0
8/15/2024 9:00	47001	HUGH_T2	3	3	0	9.17	9.03	-0.14	-0.63	-0.57	0	0	0	0	0	0
8/15/2024 9:00	45502	DERR_T2	0	0	0	0	0	0	0.14	0.1	1	1	0	300	300	0
8/15/2024 9:00	44301	BEAV_T2	0	2	2	0	0	0	0.54	0.47	2	2	0	1500	1500	0
8/15/2024 9:02	63401	HONY_T1	0	0	0	0	0	0	0.1	-0.01	1	1	0	600	600	0
8/15/2024 9:03	47001	HUGH_T2	3	3	0	9.17	9.03	-0.14	-0.63	-0.57	0	0	0	0	0	0
8/15/2024 9:05	63401	HONY_T1	0	0	0	0	0	0	0.1	-0.01	1	1	0	600	600	0
8/15/2024 9:11	67203	TEHI_T1	1	0	-1	0.4	0	-0.4	2.5	2.7	2	2	0	1500	1500	0
8/15/2024 9:11	67201	TEHI_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/15/2024 9:16	15702	TANN_T2	0	0	0	0	0	0	-0.35	-0.26	0	0	0	0	0	0
8/15/2024 9:16	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
8/15/2024 9:19	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
8/15/2024 9:19	15702	TANN_T2	0	0	0	0	0	0	-0.35	-0.26	0	0	0	0	0	0
8/15/2024 9:26	43802	SWIL_T1	0	0	0	0	0	0	0.06	0.07	1	1	0	600	600	0
8/15/2024 9:26	43801	SWIL_T1	2	1	-1	2.75	5.2	2.45	0	0	0	0	0	0	0	0
8/15/2024 9:27	13101	NHAM_T1	0	0	0	0	0	0	-1.43	-1.51	2	2	0	2400	2400	0
8/15/2024 9:27	10705	CATA_T2	0	0	0	0	0	0	-0.65	-0.6	1	1	0	900	900	0
8/15/2024 9:32	63403	HONY_T2	0	1	1	0	0	0	-0.26	-0.21	1	1	0	600	600	0
8/15/2024 9:34	64305	LINC_T1	0	0	0	0	0	0	0.06	0.15	0	0	0	0	0	0
8/15/2024 9:38	66505	SMAN_T2	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
8/15/2024 9:38	66504	SMAN_T2	0	0	0	0	0	0	-1.71	-2.01	2	2	0	2400	2400	0
8/15/2024 9:40	67605	WARW_T1	5	5	0	0.28	0.28	0	-0.81	-0.76	0	0	0	0	0	0
8/15/2024 9:42	66504	SMAN_T2	0	0	0	0	0	0	-0.85	-1.01	1	1	0	1200	1200	0
8/15/2024 9:42	66505	SMAN_T2	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
8/15/2024 9:43	11507	FREE_T2	1	1	0	0.7	0.6	-0.1	1.26	1.2	0	0	0	0	0	0
8/15/2024 9:44	43304	WATS_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
8/15/2024 9:45	15702	TANN_T2	0	0	0	0	0	0	-0.26	-0.23	0	0	0	0	0	0
8/15/2024 9:45	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
8/15/2024 9:47	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
8/15/2024 9:47	15702	TANN_T2	0	0	0	0	0	0	-0.26	-0.23	0	0	0	0	0	0
8/15/2024 9:48	15702	TANN_T2	0	0	0	0	0	0	-0.26	-0.23	0	0	0	0	0	0
8/15/2024 9:48	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
8/15/2024 9:50	44203	POIN_T2	0	3	3	0	0	0	0.03	0.17	2	2	0	2100	2100	0
8/15/2024 9:55	43304	WATS_T2	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
8/15/2024 9:55	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 9:59	64602	LEOL_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
8/15/2024 10:00	64904	MILL_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
8/15/2024 10:00	49803	UNIV_T1	1	2	1	6.3	2.6	-3.7	-0.72	-0.73	0	0	0	0	0	0
8/15/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	0.22	0.27	0	0	0	0	0	0
8/15/2024 10:00	67502	WEWI_T2	2	1	-1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
8/15/2024 10:00	13503	MCMI_T2	1	1	0	0.4	0.6	0.2	0.04	0.05	0	0	0	0	0	0
8/15/2024 10:00	63401	HONY_T1	0	0	0	0	0	0	-0.04	0.06	2	2	0	1200	1200	0
8/15/2024 10:00	63403	HONY_T2	0	0	0	0	0	0	-0.2	-0.22	1	1	0	600	600	0
8/15/2024 10:00	67503	WEWI_T2	1	1	0	7.8	7.5	-0.3	0.14	0.25	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/15/2024 10:00	64602	LEOL_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
8/15/2024 10:08	67203	TEHI_T1	2	13	11	0.45	0.46	0.01	2.99	3.07	3	3	0	2100	2100	0
8/15/2024 10:09	66504	SMAN_T2	0	0	0	0	0	0	-1.01	-1	1	1	0	1200	1200	0
8/15/2024 10:09	66505	SMAN_T2	0	0	0	0	0	0	0.55	0.11	3	4	1	1700	2300	600
8/15/2024 10:09	65904	SAKR_T2	0	0	0	0	0	0	-1.85	-1.81	3	3	0	1500	1500	0
8/15/2024 10:09	65901	SAKR_T2	1	1	0	7.2	8	0.8	0	0	0	0	0	0	0	0
8/15/2024 10:10	43304	WATS_T2	0	0	0	0	0	0	-0.38	-0.36	0	0	0	0	0	0
8/15/2024 10:10	66504	SMAN_T2	0	0	0	0	0	0	-2.02	-2	2	2	0	2400	2400	0
8/15/2024 10:11	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 10:11	43304	WATS_T2	0	0	0	0	0	0	-0.38	-0.36	0	0	0	0	0	0
8/15/2024 10:11	67605	WARW_T1	2	1	-1	0.25	0.4	0.15	-0.76	-0.77	0	0	0	0	0	0
8/15/2024 10:12	45501	DERR_T2	1	2	1	0.4	0.4	0	1	1.07	2	2	0	1800	1800	0
8/15/2024 10:12	21501	CEAV_T2	0	0	0	0	0	0	-0.38	-0.46	1	1	0	1200	1200	0
8/15/2024 10:14	45501	DERR_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
8/15/2024 10:14	45502	DERR_T2	0	0	0	0	0	0	0.09	0.08	1	1	0	300	300	0
8/15/2024 10:14	44801	EDAN_T2	42	36	-6	0.3	0.3	0	-1.44	-1.43	0	0	0	0	0	0
8/15/2024 10:14	11102	EGYP_T1	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/15/2024 10:14	11103	EGYP_T1	0	0	0	0	0	0	0.59	0.62	0	0	0	0	0	0
8/15/2024 10:15	11507	FREE_T2	1	2	1	0.4	0.4	0	1.15	1.15	0	0	0	0	0	0
8/15/2024 10:15	45502	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 10:15	45501	DERR_T2	1	2	1	0.4	0.55	0.15	1	1.07	2	2	0	1800	1800	0
8/15/2024 10:15	11104	EGYP_T1	0	0	0	0	0	0	1.71	1.85	0	0	0	0	0	0
8/15/2024 10:15	11102	EGYP_T1	1	3	2	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
8/15/2024 10:16	44801	EDAN_T2	28	35	7	0.29	0.31	0.02	-1.44	-1.43	0	0	0	0	0	0
8/15/2024 10:16	10801	CHHI_T1	0	1	1	0	0	0	-0.32	-0.29	1	1	0	900	900	0
8/15/2024 10:18	25503	MADI_T1	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
8/15/2024 10:18	16402	MOPO_T1	0	0	0	0	0	0	0.35	0.39	0	0	0	0	0	0
8/15/2024 10:18	25501	MADI_T1	2	4	2	0.2	0.25	0.05	0	0	0	0	0	0	0	0
8/15/2024 10:21	16402	MOPO_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
8/15/2024 10:22	13903	SEID_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/15/2024 10:22	13905	SEID_T1	0	0	0	0	0	0	-0.66	-0.67	1	1	0	1200	1200	0
8/15/2024 10:22	43201	MVIL_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
8/15/2024 10:24	43301	WATS_T2	0	0	0	0	0	0	-0.46	-0.43	1	1	0	900	900	0
8/15/2024 10:24	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 10:26	16101	BING_T2	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
8/15/2024 10:29	16102	BING_T2	0	0	0	0	0	0	0.27	0.35	1	1	0	1200	1200	0
8/15/2024 10:35	64203	KINZ_T1	1	2	1	0.3	1	0.7	0	0	0	0	0	0	0	0
8/15/2024 10:35	64101	REFR_T1	0	0	0	0	0	0	0.28	0.4	0	0	0	0	0	0
8/15/2024 10:35	64201	KINZ_T1	0	0	0	0	0	0	-0.18	-0.04	4	4	0	2100	2100	0
8/15/2024 10:35	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
8/15/2024 10:35	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 10:36	64201	KINZ_T1	0	0	0	0	0	0	-0.04	0.01	4	4	0	2100	2100	0
8/15/2024 10:36	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
8/15/2024 10:36	64101	REFR_T1	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
8/15/2024 10:36	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 10:36	64203	KINZ_T1	1	2	1	0.3	1	0.7	0	0	0	0	0	0	0	0
8/15/2024 10:37	23102	MOSC_T2	0	1	1	0	0	0	-0.92	-0.99	2	2	0	1800	1800	0
8/15/2024 10:38	46301	ROHR_T1	56	60	4	0.35	0.35	0	0.33	0.33	0	0	0	0	0	0
8/15/2024 10:38	46302	ROHR_T1	5	6	1	1.34	1.43	0.09	0.21	0.19	0	0	0	0	0	0
8/15/2024 10:38	64101	REFR_T1	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
8/15/2024 10:40	42801	SELI_T1	0	0	0	0	0	0	-1.95	-1.87	1	1	0	1200	1200	0
8/15/2024 10:40	65802	RTWN_T2	0	1	1	0	0.2	0.2	0.13	0.1	0	0	0	0	0	0
8/15/2024 10:40	64101	REFR_T1	0	0	0	0	0	0	0.81	1.02	0	0	0	0	0	0
8/15/2024 10:40	46301	ROHR_T1	56	60	4	0.35	0.35	0	0	0	0	0	0	0	0	0
8/15/2024 10:40	46302	ROHR_T1	5	6	1	1.34	1.43	0.09	0.21	0.19	0	0	0	0	0	0
8/15/2024 10:40	60801	BUCK_T1	0	1	1	0	0	0	0.24	-0.28	0	1	1	0	600	600
8/15/2024 10:41	64101	REFR_T1	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
8/15/2024 10:42	14802	TREI_T2	0	0	0	0	0	0	0.87	0.9	0	0	0	0	0	0
8/15/2024 10:42	14801	TREI_T2	9	6	-3	0.34	0.45	0.11	0	0	0	0	0	0	0	0
8/15/2024 10:43	10801	CHHI_T1	1	2	1	0.2	0.1	-0.1	-0.15	-0.11	1	1	0	900	900	0
8/15/2024 10:43	67605	WARW_T1	1	1	0	0.4	0.3	-0.1	-0.73	-0.74	0	0	0	0	0	0
8/15/2024 10:45	61801	EELI_T2	1	1	0	0.3	0	-0.3	-0.3	-0.24	1	1	0	600	600	0
8/15/2024 10:45	47001	HUGH_T2	3	3	0	7.9	8.33	0.43	-0.41	-0.43	0	0	0	0	0	0
8/15/2024 10:45	61802	EELI_T2	0	5	5	0	0.13	0.13	0	0	0	0	0	0	0	0
8/15/2024 10:45	16103	BING_T2	0	1	1	0	0.2	0.2	-1.11	-1.07	1	1	0	900	900	0
8/15/2024 10:48	47001	HUGH_T2	3	3	0	7.9	8.33	0.43	-0.41	-0.43	0	0	0	0	0	0
8/15/2024 10:51	41702	LOGA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/15/2024 10:52	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 10:52	44203	POIN_T2	2	6	4	0.3	0.1	-0.2	1.02	1.01	4	4	0	4200	4200	0
8/15/2024 10:55	67803	WLAN_T1	0	0	0	0	0	0	-0.58	-0.55	0	0	0	0	0	0
8/15/2024 10:57	67603	WARW_T1	0	0	0	0	0	0	0.26	0.21	0	0	0	0	0	0
8/15/2024 10:57	67605	WARW_T1	1	1	0	0.3	0.3	0	-0.74	-0.71	0	0	0	0	0	0
8/15/2024 10:58	67605	WARW_T1	1	1	0	0.3	0.3	0	-0.74	-0.71	0	0	0	0	0	0
8/15/2024 11:01	21204	ECAR_T2	1	1	0	0	0	0	-0.54	-0.48	0	0	0	0	0	0
8/15/2024 11:01	21206	ECAR_T2	1	1	0	7.2	7.3	0.1	0	0	0	0	0	0	0	0
8/15/2024 11:01	47001	HUGH_T2	3	4	1	8.3	6.23	-2.07	-0.43	-0.35	0	0	0	0	0	0
8/15/2024 11:02	40902	JESH_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
8/15/2024 11:02	40901	JESH_T1	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
8/15/2024 11:03	47001	HUGH_T2	3	4	1	8.3	6.23	-2.07	-0.43	-0.35	0	0	0	0	0	0
8/15/2024 11:04	64203	KINZ_T1	2	1	-1	0.65	0.8	0.15	0.1	0.18	3	3	0	2100	2100	0
8/15/2024 11:04	64204	KINZ_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
8/15/2024 11:04	64202	KINZ_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/15/2024 11:04	40902	JESH_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
8/15/2024 11:04	40901	JESH_T1	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
8/15/2024 11:05	65205	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 11:06	64201	KINZ_T1	0	0	0	0	0	0	-1.16	-1.15	4	5	1	2100	3300	1200
8/15/2024 11:06	42903	MIDD_T2	0	2	2	0	0.15	0.15	0.83	0.71	1	1	0	1200	1200	0
8/15/2024 11:06	64203	KINZ_T1	2	1	-1	0.65	0.8	0.15	0	0	0	0	0	0	0	0
8/15/2024 11:06	64204	KINZ_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
8/15/2024 11:06	64202	KINZ_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/15/2024 11:10	16605	PONO_T1	0	0	0	0	0	0	0.08	0.15	1	1	0	1200	1200	0
8/15/2024 11:11	46301	ROHR_T1	18	21	3	0.76	0.66	-0.1	0.32	0.33	0	0	0	0	0	0
8/15/2024 11:11	46302	ROHR_T1	5	5	0	1.62	1.64	0.02	0	0	0	0	0	0	0	0
8/15/2024 11:13	10805	CHHI_T2	6	1	-5	1.57	8	6.43	-0.85	-0.57	2	2	0	1800	1800	0
8/15/2024 11:13	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 11:13	11102	EGYP_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
8/15/2024 11:13	11104	EGYP_T1	1	5	4	0.1	0.3	0.2	1	1.03	0	0	0	0	0	0
8/15/2024 11:14	63302	GREE_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
8/15/2024 11:14	10805	CHHI_T2	6	1	-5	1.57	8	6.43	-0.85	-0.57	2	2	0	1800	1800	0
8/15/2024 11:18	11101	EGYP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/15/2024 11:18	11102	EGYP_T1	1	2	1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/15/2024 11:18	11104	EGYP_T1	5	5	0	0.3	0.42	0.12	1	1.03	0	0	0	0	0	0
8/15/2024 11:19	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 11:19	12701	MACU_T1	0	1	1	0	0	0	0.33	0.32	0	0	0	0	0	0
8/15/2024 11:19	64204	KINZ_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
8/15/2024 11:19	64203	KINZ_T1	1	2	1	0.8	1	0.2	0.18	0.24	3	3	0	2100	2100	0
8/15/2024 11:22	12701	MACU_T1	0	1	1	0	0	0	0.32	-0.87	0	1	1	0	1200	1200
8/15/2024 11:23	44202	POIN_T2	1	2	1	0.1	0	-0.1	-0.25	-0.3	1	1	0	1200	1200	0
8/15/2024 11:23	44203	POIN_T2	6	5	-1	0.73	1.77	1.04	0	0	0	0	0	0	0	0
8/15/2024 11:27	67203	TEHI_T1	21	37	16	0.52	0.2	-0.32	3.15	2.72	3	3	0	2100	2100	0
8/15/2024 11:28	14401	SSLA_T1	2	0	-2	0.1	0	-0.1	0	0	1	1	0	1200	1200	0
8/15/2024 11:28	14402	SSLA_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/15/2024 11:28	14403	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/15/2024 11:28	14404	SSLA_T1	11	25	14	1.2	1.2	0	0	0	0	0	0	0	0	0
8/15/2024 11:30	23401	HONE_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
8/15/2024 11:32	63501	HEID_TBK1-2	56	55	-1	1.74	1.85	0.11	0.47	0.35	1	1	0	900	900	0
8/15/2024 11:34	15203	SFAR_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/15/2024 11:34	64902	MILL_T2	0	0	0	0	0	0	-0.15	-0.75	1	1	0	900	900	0
8/15/2024 11:35	63501	HEID_TBK1-2	56	55	-1	1.74	1.85	0.11	0.47	0.35	1	1	0	900	900	0
8/15/2024 11:35	15203	SFAR_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/15/2024 11:38	15203	SFAR_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/15/2024 11:39	64802	MONE_T2	0	2	2	0	0.35	0.35	0.26	0.28	0	0	0	0	0	0
8/15/2024 11:40	46004	BERW_T2	0	0	0	0	0	0	0.68	0.72	0	0	0	0	0	0
8/15/2024 11:44	10805	CHHI_T2	1	1	0	8.6	8.4	-0.2	-0.61	-0.7	2	2	0	1800	1800	0
8/15/2024 11:47	61301	EARL_T1	0	0	0	0	0	0	-0.87	-0.9	2	2	0	1800	1800	0
8/15/2024 11:53	64902	MILL_T2	0	0	0	0	0	0	-0.73	-0.69	1	1	0	900	900	0
8/15/2024 11:54	67201	TEHI_T1	0	3	3	0	0.4	0.4	0.37	1.14	2	2	0	1500	1500	0
8/15/2024 11:54	67203	TEHI_T1	1	3	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/15/2024 11:55	66703	STRA_T1	0	0	0	0	0	0	1.29	1.39	0	0	0	0	0	0
8/15/2024 11:56	45402	WELO_T2	1	3	2	0.7	0.57	-0.13	-0.34	-0.19	0	0	0	0	0	0
8/15/2024 11:57	67605	WARW_T1	1	1	0	1.3	1.6	0.3	-0.75	-0.72	0	0	0	0	0	0
8/15/2024 12:01	44801	EDAN_T2	7	13	6	0.64	0.52	-0.12	-1.28	-1.32	0	0	0	0	0	0
8/15/2024 12:02	11104	EGYP_T1	5	5	0	1.1	0.98	-0.12	1.09	1.11	0	0	0	0	0	0
8/15/2024 12:02	26402	INOR_T1	1	3	2	0.2	0.57	0.37	-1.53	-1.5	1	1	0	600	600	0
8/15/2024 12:02	11102	EGYP_T1	2	2	0	0.9	1.5	0.6	0	0	0	0	0	0	0	0
8/15/2024 12:02	26401	INOR_T1	2	2	0	3	3.55	0.55	0	0	0	0	0	0	0	0
8/15/2024 12:03	62607	ENGL_T1	1	1	0	7.2	1.5	-5.7	0	0	0	0	0	0	0	0
8/15/2024 12:03	62601	ENGL_T1	0	0	0	0	0	0	-0.12	-0.09	0	0	0	0	0	0
8/15/2024 12:04	42903	MIDD_T2	2	3	1	0.25	1.13	0.88	1.04	0.39	1	1	0	1200	1200	0
8/15/2024 12:04	42902	MIDD_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/15/2024 12:05	42903	MIDD_T2	2	3	1	0.25	1.13	0.88	1.04	0.39	1	1	0	1200	1200	0
8/15/2024 12:05	42902	MIDD_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/15/2024 12:09	49803	UNIV_T1	1	1	0	5.2	5.2	0	-1.81	-1.76	0	0	0	0	0	0
8/15/2024 12:11	44301	BEAV_T2	0	5	5	0	0.22	0.22	-0.55	-0.43	2	2	0	1500	1500	0
8/15/2024 12:11	14303	SUMN_T1	8	10	2	3.3	3.36	0.06	0	0	0	0	0	0	0	0
8/15/2024 12:11	44302	BEAV_T2	0	7	7	0	0.47	0.47	0	0	0	0	0	0	0	0
8/15/2024 12:11	14306	SUMN_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 12:11	14702	TREX_T2	0	0	0	0	0	0	1.48	1.47	0	0	0	0	0	0
8/15/2024 12:11	14308	SUMN_T1	0	1	1	0	0.4	0.4	0.3	0.31	0	0	0	0	0	0
8/15/2024 12:12	14702	TREX_T2	0	0	0	0	0	0	1.48	1.47	0	0	0	0	0	0
8/15/2024 12:12	44301	BEAV_T2	0	5	5	0	0.22	0.22	-0.55	-0.43	2	2	0	1500	1500	0
8/15/2024 12:12	45502	DERR_T2	9	0	-9	0.59	0	-0.59	0	0	0	0	0	0	0	0
8/15/2024 12:12	44302	BEAV_T2	0	7	7	0	0.47	0.47	0	0	0	0	0	0	0	0
8/15/2024 12:12	45501	DERR_T2	3	5	2	0.5	0.53	0.03	1.25	1.17	2	2	0	1800	1800	0
8/15/2024 12:13	14702	TREX_T2	0	0	0	0	0	0	1.48	1.47	0	0	0	0	0	0
8/15/2024 12:13	44301	BEAV_T2	0	5	5	0	0.22	0.22	-0.55	-0.43	2	2	0	1500	1500	0
8/15/2024 12:13	44302	BEAV_T2	0	7	7	0	0.47	0.47	0	0	0	0	0	0	0	0
8/15/2024 12:14	44301	BEAV_T2	0	5	5	0	0.22	0.22	0	0	0	0	0	0	0	0
8/15/2024 12:14	45502	DERR_T2	9	0	-9	0.59	0	-0.59	0	0	0	0	0	0	0	0
8/15/2024 12:14	15702	TANN_T2	10	9	-1	0.51	0.63	0.12	-0.69	-0.53	0	0	0	0	0	0
8/15/2024 12:14	44302	BEAV_T2	0	7	7	0	0.47	0.47	0.41	0.4	0	0	0	0	0	0
8/15/2024 12:14	49803	UNIV_T1	1	1	0	5.2	5.2	0	-1.81	-1.76	0	0	0	0	0	0
8/15/2024 12:14	45501	DERR_T2	3	5	2	0.5	0.53	0.03	1.25	1.17	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/15/2024 12:14	15703	TANN_T2	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
8/15/2024 12:15	44302	BEAV_T2	7	5	-2	0.44	0.46	0.02	0	0	0	0	0	0	0	0
8/15/2024 12:15	45501	DERR_T2	4	4	0	0.3	0.53	0.23	1.25	1.17	2	2	0	1800	1800	0
8/15/2024 12:15	44301	BEAV_T2	5	2	-3	0.22	0.1	-0.12	0	0	0	0	0	0	0	0
8/15/2024 12:15	15702	TANN_T2	7	9	2	0.61	0.63	0.02	-0.35	-0.26	0	0	0	0	0	0
8/15/2024 12:15	15703	TANN_T2	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
8/15/2024 12:16	10805	CHHI_T2	7	3	-4	1.9	8.6	6.7	-0.61	-0.61	2	2	0	1800	1800	0
8/15/2024 12:19	63501	HEID_TBK1-2	56	55	-1	1.88	2.05	0.17	0.48	0.66	1	1	0	900	900	0
8/15/2024 12:26	67605	WARW_T1	1	1	0	1.6	1.5	-0.1	-0.7	-0.71	0	0	0	0	0	0
8/15/2024 12:28	67605	WARW_T1	1	1	0	1.6	1.5	-0.1	-0.7	-0.71	0	0	0	0	0	0
8/15/2024 12:32	11804	FRAN_T1	0	4	4	0	0	0	1.67	1.87	0	0	0	0	0	0
8/15/2024 12:32	63501	HEID_TBK1-2	55	55	0	2.1	2.09	-0.01	0.66	0.57	1	1	0	900	900	0
8/15/2024 12:33	28701	HAML_T2	3	3	0	0.77	0.67	-0.1	0	0	0	0	0	0	0	0
8/15/2024 12:33	28702	HAML_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
8/15/2024 12:36	64101	REFR_T1	0	0	0	0	0	0	2.24	2.2	0	0	0	0	0	0
8/15/2024 12:38	64101	REFR_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
8/15/2024 12:39	64101	REFR_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
8/15/2024 12:40	64101	REFR_T1	0	0	0	0	0	0	1.12	1.1	0	0	0	0	0	0
8/15/2024 12:41	61102	BERK_T5	0	0	0	0	0	0	1.22	1.36	2	2	0	600	600	0
8/15/2024 12:41	43301	WATS_T2	0	0	0	0	0	0	-0.27	-0.23	1	1	0	900	900	0
8/15/2024 12:41	64101	REFR_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
8/15/2024 12:42	16302	ALPA_T2	0	0	0	0	0	0	0.32	0.9	0	0	0	0	0	0
8/15/2024 12:43	11102	EGYP_T1	1	3	2	1.5	1	-0.5	0	0	0	0	0	0	0	0
8/15/2024 12:43	11104	EGYP_T1	5	5	0	1.48	0.5	-0.98	0.86	0.86	0	0	0	0	0	0
8/15/2024 12:43	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 12:43	61102	BERK_T5	0	0	0	0	0	0	0.61	0.68	1	1	0	300	300	0
8/15/2024 12:44	60101	COCA_T1	1	1	0	0.1	0.3	0.2	0.78	0.87	1	1	0	600	600	0
8/15/2024 12:45	43102	SMIL_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 12:45	43108	SMIL_T2	1	1	0	0.5	0	-0.5	-0.56	-0.55	1	1	0	1200	1200	0
8/15/2024 12:45	43101	SMIL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/15/2024 12:46	60101	COCA_T1	1	1	0	0.2	0.3	0.1	1.55	1.73	2	2	0	1200	1200	0
8/15/2024 12:47	11104	EGYP_T1	5	5	0	0.5	0.76	0.26	0.86	0.86	0	0	0	0	0	0
8/15/2024 12:47	11102	EGYP_T1	1	3	2	1	1.23	0.23	0	0	0	0	0	0	0	0
8/15/2024 12:47	11101	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/15/2024 12:48	11102	EGYP_T1	1	3	2	1	1.23	0.23	0	0	0	0	0	0	0	0
8/15/2024 12:48	64305	LINC_T1	0	1	1	0	0.1	0.1	0.41	0.53	0	0	0	0	0	0
8/15/2024 12:48	11101	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/15/2024 12:48	11104	EGYP_T1	5	5	0	0.5	0.76	0.26	0.86	0.86	0	0	0	0	0	0
8/15/2024 12:49	64704	LITI_T1	0	0	0	0	0	0	0.58	0.68	1	1	0	600	600	0
8/15/2024 12:51	42902	MIDD_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/15/2024 12:51	42903	MIDD_T2	2	2	0	0.6	0.15	-0.45	1.11	0.92	1	1	0	1200	1200	0
8/15/2024 12:52	65005	NEFF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/15/2024 12:52	65004	NEFF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/15/2024 12:52	65001	NEFF_T2	0	0	0	0	0	0	0.25	0.31	1	1	0	1200	1200	0
8/15/2024 12:53	60101	COCA_T1	1	1	0	0.2	0.3	0.1	0.87	0.82	1	1	0	600	600	0
8/15/2024 12:55	66703	STRA_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
8/15/2024 12:56	67503	WEWI_T2	1	1	0	5.4	5.8	0.4	0.93	1.02	0	0	0	0	0	0
8/15/2024 12:56	66703	STRA_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
8/15/2024 12:56	67502	WEWI_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
8/15/2024 12:57	14705	TREX_T1	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
8/15/2024 12:57	61102	BERK_T5	0	0	0	0	0	0	1.36	1.13	2	2	0	600	600	0
8/15/2024 12:58	12302	LANA_T2	0	0	0	0	0	0	-2.16	-2.11	3	3	0	2700	2700	0
8/15/2024 12:58	61102	BERK_T5	0	0	0	0	0	0	1.36	1.13	2	2	0	600	600	0
8/15/2024 12:58	12305	LANA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/15/2024 12:58	67502	WEWI_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
8/15/2024 12:58	67503	WEWI_T2	1	1	0	5.4	5.8	0.4	0.46	0.51	0	0	0	0	0	0
8/15/2024 13:00	10801	CHHI_T1	5	6	1	0.64	1.38	0.74	-0.5	-1.05	2	3	1	1500	2100	600
8/15/2024 13:01	63602	LETO_T1	1	1	0	0.2	0.1	-0.1	-0.36	-0.31	2	2	0	1200	1200	0
8/15/2024 13:09	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 13:09	16203	POFA_T2	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
8/15/2024 13:18	13503	MCMI_T2	7	34	27	0.49	0.24	-0.25	-0.69	-0.66	0	0	0	0	0	0
8/15/2024 13:20	13503	MCMI_T2	7	34	27	0.49	0.24	-0.25	-0.69	-0.66	0	0	0	0	0	0
8/15/2024 13:22	41002	LAUR_T2	4	4	0	0.55	0.63	0.08	0.23	0.23	0	0	0	0	0	0
8/15/2024 13:22	41001	LAUR_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
8/15/2024 13:28	16005	DORN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/15/2024 13:28	45402	WBLO_T2	2	1	-1	0.65	0.4	-0.25	-1.09	-1	1	1	0	900	900	0
8/15/2024 13:28	66703	STRA_T1	0	0	0	0	0	0	0.08	0.16	0	0	0	0	0	0
8/15/2024 13:29	10801	CHHI_T1	4	6	2	0.7	1.38	0.68	-1.16	-1.16	3	3	0	2100	2100	0
8/15/2024 13:30	14203	EALL_T1	0	0	0	0	0	0	0.49	0.53	1	1	0	1200	1200	0
8/15/2024 13:39	67203	TEHI_T1	24	31	7	0.57	0.43	-0.14	0	0	0	0	0	0	0	0
8/15/2024 13:39	67201	TEHI_T1	0	1	1	0	0.1	0.1	0.99	0.85	2	2	0	1500	1500	0
8/15/2024 13:39	44201	POIN_T1	0	1	1	0	0	0	0.38	-0.9	4	4	0	4200	4200	0
8/15/2024 13:40	14502	SCHO_T1	0	0	0	0	0	0	1.12	1.16	0	0	0	0	0	0
8/15/2024 13:40	44201	POIN_T1	0	1	1	0	0	0	0.19	-0.45	2	2	0	2100	2100	0
8/15/2024 13:41	44201	POIN_T1	0	1	1	0	0	0	0.19	-0.45	2	2	0	2100	2100	0
8/15/2024 13:42	44201	POIN_T1	0	1	1	0	0	0	0.38	-0.9	4	4	0	4200	4200	0
8/15/2024 13:43	42701	AUGU_T1	1	2	1	0.4	0.6	0.2	0	0	2	2	0	1800	1800	0
8/15/2024 13:43	66703	STRA_T1	0	0	0	0	0	0	0.16	0.22	0	0	0	0	0	0
8/15/2024 13:45	11104	EGYP_T1	5	6	1	1.56	1.42	-0.14	0.88	0.9	0	0	0	0	0	0
8/15/2024 13:45	11101	EGYP_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/15/2024 13:45	11102	EGYP_T1	3	3	0	2.27	1.57	-0.7	0	0	0	0	0	0	0	0
8/15/2024 13:46	11101	EGYP_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/15/2024 13:46	11102	EGYP_T1	3	3	0	2.27	1.57	-0.7	0	0	0	0	0	0	0	0
8/15/2024 13:46	11104	EGYP_T1	5	6	1	1.56	1.42	-0.14	1.76	1.79	0	0	0	0	0	0
8/15/2024 13:47	63602	LETO_T1	1	1	0	0.1	0.2	0.1	-0.24	-0.15	1	1	0	600	600	0
8/15/2024 13:48	14403	SSLA_T1	0	0	0	0	0	0	0.01	-0.09	1	1	0	600	600	0
8/15/2024 13:48	14402	SSLA_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/15/2024 13:48	14404	SSLA_T1	68	75	7	0.81	0.87	0.06	0	0	0	0	0	0	0	0
8/15/2024 13:48	14401	SSLA_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/15/2024 13:48	63602	LETO_T1	1	1	0	0.1	0.2	0.1	-0.24	-0.15	1	1	0	600	600	0
8/15/2024 13:49	46801	HEPB_T2	2	2	0	1.5	1.4	-0.1	0.19	0.25	0	0	0	0	0	0
8/15/2024 13:49	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0.7	0.67	0	0	0	0	0	0
8/15/2024 13:49	63602	LETO_T1	1	1	0	0.1	0.2	0.1	-0.24	-0.15	1	1	0	600	600	0
8/15/2024 13:52	41001	LAUR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/15/2024 13:52	41002	LAUR_T2	3	1	-2	0.63	0.9	0.27	0.25	0.25	0	0	0	0	0	0
8/15/2024 13:53	13502	MCMI_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/15/2024 13:59	43304	WATS_T2	0	0	0	0	0	0	-0.21	-0.08	0	0	0	0	0	0
8/15/2024 13:59	14404	SSLA_T1	68	75	7	0.81	0.87	0.06	0	0	0	0	0	0	0	0
8/15/2024 13:59	14403	SSLA_T1	0	0	0	0	0	0	-0.09	0.02	1	1	0	600	600	0
8/15/2024 13:59	14401	SSLA_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/15/2024 13:59	14402	SSLA_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/15/2024 14:00	43304	WATS_T2	0	0	0	0	0	0	-0.11	-0.04	0	0	0	0	0	0
8/15/2024 14:01	67503	WEWI_T2	1	1	0	5	4.9	-0.1	0.54	0.55	0	0	0	0	0	0
8/15/2024 14:01	46206	DANV_T2	45	46	1	0.51	0.46	-0.05	3.59	3.43	4	4	0	4200	4200	0
8/15/2024 14:01	43304	WATS_T2	0	0	0	0	0	0	-0.11	-0.04	0	0	0	0	0	0
8/15/2024 14:01	14404	SSLA_T1	65	89	24	0.87	1	0.13	0	0	0	0	0	0	0	0
8/15/2024 14:01	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/15/2024 14:01	46204	DANV_T2	0	9	9	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 14:01	14401	SSLA_T1	3	1	-2	0.23	0.6	0.37	0	0	0	0	0	0	0	0
8/15/2024 14:01	14403	SSLA_T1	0	2	2	0	0	0	-0.09	0.02	1	1	0	600	600	0
8/15/2024 14:01	14402	SSLA_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/15/2024 14:09	66703	STRA_T1	0	0	0	0	0	0	0.09	-0.31	0	0	0	0	0	0
8/15/2024 14:10	21701	SUBU_T1	1	2	1	6.6	6.8	0.2	0	0	0	0	0	0	0	0
8/15/2024 14:10	21704	SUBU_T1	0	0	0	0	0	0	-1.81	-1.79	2	2	0	2400	2400	0
8/15/2024 14:10	21705	SUBU_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
8/15/2024 14:11	67503	WEWI_T2	1	1	0	5	4.9	-0.1	0.55	0.59	0	0	0	0	0	0
8/15/2024 14:11	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/15/2024 14:12	17803	GILB_T2	1	4	3	1	1.2	0.2	0	0	0	0	0	0	0	0
8/15/2024 14:12	17804	GILB_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/15/2024 14:12	17805	GILB_T2	0	0	0	0	0	0	1.83	1.94	0	0	0	0	0	0
8/15/2024 14:12	61102	BERK_T5	0	0	0	0	0	0	0.91	0.75	1	1	0	300	300	0
8/15/2024 14:13	61102	BERK_T5	0	0	0	0	0	0	0.91	0.75	1	1	0	300	300	0
8/15/2024 14:13	44801	EDAN_T2	16	13	-3	0.53	0.63	0.1	0	0	0	0	0	0	0	0
8/15/2024 14:13	44802	EDAN_T2	0	0	0	0	0	0	-2.96	-2.92	0	0	0	0	0	0
8/15/2024 14:14	43102	SMIL_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 14:14	17804	GILB_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/15/2024 14:14	44301	BEAV_T2	1	2	1	1.2	0.25	-0.95	-0.34	-0.67	2	2	0	1500	1500	0
8/15/2024 14:14	43108	SMIL_T2	0	0	0	0	0	0	-0.84	-0.79	1	1	0	1200	1200	0
8/15/2024 14:14	17803	GILB_T2	1	4	3	1	1.2	0.2	0	0	0	0	0	0	0	0
8/15/2024 14:14	17805	GILB_T2	0	0	0	0	0	0	1.22	1.29	0	0	0	0	0	0
8/15/2024 14:15	61102	BERK_T5	0	0	0	0	0	0	1.81	1.49	2	2	0	600	600	0
8/15/2024 14:15	44802	EDAN_T2	0	0	0	0	0	0	-2.96	-2.92	0	0	0	0	0	0
8/15/2024 14:15	44801	EDAN_T2	12	13	1	0.53	0.58	0.05	-1.14	-1.15	0	0	0	0	0	0
8/15/2024 14:16	44301	BEAV_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
8/15/2024 14:16	61102	BERK_T5	0	0	0	0	0	0	0.91	0.75	1	1	0	300	300	0
8/15/2024 14:17	44801	EDAN_T2	12	13	1	0.53	0.58	0.05	0	0	0	0	0	0	0	0
8/15/2024 14:17	44802	EDAN_T2	0	0	0	0	0	0	-1.48	-1.46	0	0	0	0	0	0
8/15/2024 14:18	44801	EDAN_T2	12	13	1	0.53	0.58	0.05	-1.14	-1.15	0	0	0	0	0	0
8/15/2024 14:18	61102	BERK_T5	0	0	0	0	0	0	0.91	0.75	1	1	0	300	300	0
8/15/2024 14:18	44802	EDAN_T2	0	0	0	0	0	0	-1.48	-1.46	0	0	0	0	0	0
8/15/2024 14:18	63501	HEID_TBK1-2	56	55	-1	2.63	2.07	-0.56	0.67	0.79	1	1	0	900	900	0
8/15/2024 14:21	13503	MCMI_T2	6	30	24	0.48	0.27	-0.21	-0.65	-0.62	0	0	0	0	0	0
8/15/2024 14:21	65604	QVIL_T2	0	0	0	0	0	0	0.82	0.84	0	0	0	0	0	0
8/15/2024 14:22	65604	QVIL_T2	0	0	0	0	0	0	0.82	0.84	0	0	0	0	0	0
8/15/2024 14:25	66703	STRA_T1	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
8/15/2024 14:28	66703	STRA_T1	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
8/15/2024 14:29	14702	TREX_T2	0	0	0	0	0	0	1.58	1.58	0	0	0	0	0	0
8/15/2024 14:31	44801	EDAN_T2	13	19	6	0.55	0.4	-0.15	-1.15	-1.14	0	0	0	0	0	0
8/15/2024 14:32	44301	BEAV_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/15/2024 14:38	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/15/2024 14:38	66501	SMAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/15/2024 14:38	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 14:43	67503	WEWI_T2	1	1	0	4.8	4.2	-0.6	0.59	0.59	0	0	0	0	0	0
8/15/2024 14:43	67502	WEWI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/15/2024 14:46	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 14:46	21206	ECAR_T2	1	1	0	7.6	8	0.4	0.61	0.59	0	0	0	0	0	0
8/15/2024 14:54	17803	GILB_T2	2	3	1	0.85	1.4	0.55	0	0	0	0	0	0	0	0
8/15/2024 14:54	17805	GILB_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
8/15/2024 15:05	46504	LOHA_T1	2	3	1	0.55	1.23	0.68	0	0	0	0	0	0	0	0
8/15/2024 15:05	46503	LOHA_T1	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
8/15/2024 15:05	64305	LINC_T1	1	1	0	1.7	0.7	-1	0.6	-0.21	0	0	0	0	0	0
8/15/2024 15:06	46504	LOHA_T1	2	3	1	0.55	1.23	0.68	0	0	0	0	0	0	0	0
8/15/2024 15:06	46503	LOHA_T1	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/15/2024 15:18	42902	MIDD_T2	2	2	0	0.95	0.7	-0.25	-0.02	-0.35	1	1	0	600	600	0
8/15/2024 15:18	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/15/2024 15:24	13702	SCHN_T1	0	0	0	0	0	0	0.71	0.77	0	0	0	0	0	0
8/15/2024 15:26	13702	SCHN_T1	0	0	0	0	0	0	0.71	0.77	0	0	0	0	0	0
8/15/2024 15:29	45501	DERR_T2	3	4	1	0.57	0.1	-0.47	1.18	1.32	2	2	0	1800	1800	0
8/15/2024 15:29	21206	ECAR_T2	1	4	3	8	8.2	0.2	0.43	0.26	0	0	0	0	0	0
8/15/2024 15:29	45502	DERR_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/15/2024 15:29	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 15:32	45501	DERR_T2	4	1	-3	0.28	0	-0.28	1.18	1.32	2	2	0	1800	1800	0
8/15/2024 15:32	45502	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/15/2024 15:34	64305	LINC_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/15/2024 15:34	64301	LINC_T1	0	0	0	0	0	0	-0.56	-0.59	1	1	0	600	600	0
8/15/2024 15:35	17802	GILB_T1	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
8/15/2024 15:37	60502	NMAN_T2	0	0	0	0	0	0	0.03	0.1	0	0	0	0	0	0
8/15/2024 15:42	67602	WARW_T2	0	0	0	0	0	0	0.84	0.87	1	1	0	300	300	0
8/15/2024 15:43	67602	WARW_T2	0	0	0	0	0	0	0.84	0.87	1	1	0	300	300	0
8/15/2024 15:45	67602	WARW_T2	0	0	0	0	0	0	0.84	0.87	1	1	0	300	300	0
8/15/2024 15:50	17804	GILB_T2	1	0	-1	1.1	0	-1.1	-0.32	-0.3	0	0	0	0	0	0
8/15/2024 15:50	17803	GILB_T2	5	20	15	0.6	0.72	0.12	0	0	0	0	0	0	0	0
8/15/2024 15:50	17805	GILB_T2	1	0	-1	2.4	0	-2.4	0	0	0	0	0	0	0	0
8/15/2024 15:58	46204	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 15:58	46206	DANV_T2	41	52	11	0.49	0.44	-0.05	0	0	0	0	0	0	0	0
8/15/2024 15:58	46203	DANV_T2	0	1	1	0	0	0	-1.32	-1.32	0	0	0	0	0	0
8/15/2024 16:02	17803	GILB_T2	20	18	-2	0.88	0.68	-0.2	0	0	0	0	0	0	0	0
8/15/2024 16:02	17805	GILB_T2	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
8/15/2024 16:03	46206	DANV_T2	44	49	5	0.47	0.46	-0.01	0	0	0	0	0	0	0	0
8/15/2024 16:03	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 16:03	46203	DANV_T2	1	1	0	0.1	0	-0.1	-2.64	-2.64	0	0	0	0	0	0
8/15/2024 16:05	17805	GILB_T2	0	0	0	0	0	0	-0.47	-0.51	0	0	0	0	0	0
8/15/2024 16:05	17803	GILB_T2	20	18	-2	0.88	0.68	-0.2	0	0	0	0	0	0	0	0
8/15/2024 16:13	46203	DANV_T2	1	1	0	0.1	0	-0.1	-1.32	-1.29	0	0	0	0	0	0
8/15/2024 16:13	46206	DANV_T2	44	49	5	0.47	0.46	-0.01	0	0	0	0	0	0	0	0
8/15/2024 16:13	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 16:14	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 16:14	46203	DANV_T2	1	1	0	0.1	0	-0.1	-2.64	-2.58	0	0	0	0	0	0
8/15/2024 16:14	46206	DANV_T2	44	49	5	0.47	0.46	-0.01	0	0	0	0	0	0	0	0
8/15/2024 16:16	45501	DERR_T2	0	0	0	0	0	0	1.01	0.92	2	2	0	1800	1800	0
8/15/2024 16:18	46203	DANV_T2	0	1	1	0	0.1	0.1	-1.32	-1.29	0	0	0	0	0	0
8/15/2024 16:18	46206	DANV_T2	46	46	0	0.51	0.44	-0.07	0	0	0	0	0	0	0	0
8/15/2024 16:18	46204	DANV_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/15/2024 16:22	12606	MACA_T1	26	36	10	1.58	1.53	-0.05	0	0	0	0	0	0	0	0
8/15/2024 16:22	12602	MACA_T1	2	11	9	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
8/15/2024 16:22	12601	MACA_T1	0	0	0	0	0	0	1.48	1.51	0	0	0	0	0	0
8/15/2024 16:27	15001	BLMO_T1	6	5	-1	0.37	0.23	-0.14	0	0	0	0	0	0	0	0
8/15/2024 16:30	15001	BLMO_T1	3	5	2	0.23	0.45	0.22	0	0	0	0	0	0	0	0
8/15/2024 16:39	13904	SEID_T1	3	20	17	0.37	0.26	-0.11	0.63	0.62	0	0	0	0	0	0
8/15/2024 16:39	13903	SEID_T1	15	23	8	0.71	0.65	-0.06	0	0	0	0	0	0	0	0
8/15/2024 16:41	13904	SEID_T1	3	20	17	0.37	0.26	-0.11	0.63	0.62	0	0	0	0	0	0
8/15/2024 16:41	13903	SEID_T1	15	23	8	0.71	0.65	-0.06	0	0	0	0	0	0	0	0
8/15/2024 16:45	61703	ELIZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/15/2024 16:45	61701	ELIZ_T1	1	1	0	1.2	1.3	0.1	1.13	1.13	0	0	0	0	0	0
8/15/2024 16:48	61701	ELIZ_T1	1	1	0	1.2	1.3	0.1	1.13	1.13	0	0	0	0	0	0
8/15/2024 16:48	61703	ELIZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/15/2024 16:49	61703	ELIZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/15/2024 16:49	61701	ELIZ_T1	1	1	0	1.2	1.3	0.1	1.13	1.13	0	0	0	0	0	0
8/15/2024 16:54	67103	SPRI_T1	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
8/15/2024 16:54	12202	FOGE_T2	1	2	1	0.3	0.25	-0.05	0	0	1	1	0	600	600	0
8/15/2024 16:56	64101	REFR_T1	4	1	-3	0.2	0	-0.2	-0.02	0.04	0	0	0	0	0	0
8/15/2024 17:13	45501	DERR_T2	2	9	7	0.2	0.25	0.05	1.97	1.97	4	4	0	3600	3600	0
8/15/2024 17:14	45501	DERR_T2	2	9	7	0.2	0.25	0.05	1.97	1.97	4	4	0	3600	3600	0
8/15/2024 17:15	45501	DERR_T2	2	10	8	0.25	0.8	0.55	0.98	0.98	2	2	0	1800	1800	0
8/15/2024 17:17	45501	DERR_T2	2	10	8	0.25	0.8	0.55	1.97	1.97	4	4	0	3600	3600	0
8/15/2024 17:23	15603	NSTR_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
8/15/2024 17:24	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 17:24	43202	MVIL_T2	0	0	0	0	0	0	-1.39	-1.43	0	0	0	0	0	0
8/15/2024 17:30	61701	ELIZ_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
8/15/2024 17:30	61703	ELIZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 17:41	21206	ECAR_T2	3	11	8	2.53	1.85	-0.68	0.39	0.57	0	0	0	0	0	0
8/15/2024 17:41	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 17:44	13903	SEID_T1	9	6	-3	0.64	1.13	0.49	0	0	0	0	0	0	0	0
8/15/2024 17:44	13904	SEID_T1	18	26	8	0.46	0.27	-0.19	0.63	0.69	0	0	0	0	0	0
8/15/2024 17:45	61701	ELIZ_T1	1	1	0	1	1.3	0.3	1.1	1.14	0	0	0	0	0	0
8/15/2024 17:45	61703	ELIZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/15/2024 17:46	61701	ELIZ_T1	1	1	0	1	1.3	0.3	1.1	1.14	0	0	0	0	0	0
8/15/2024 17:46	61703	ELIZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/15/2024 17:47	63303	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 17:47	63304	GREE_T1	0	0	0	0	0	0	-1.83	-1.84	0	0	0	0	0	0
8/15/2024 17:48	61701	ELIZ_T1	1	1	0	1	1.3	0.3	1.1	1.14	0	0	0	0	0	0
8/15/2024 17:48	61703	ELIZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/15/2024 17:49	63303	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 17:49	63304	GREE_T1	0	0	0	0	0	0	-1.83	-1.84	0	0	0	0	0	0
8/15/2024 17:53	63404	HONY_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/15/2024 17:53	63401	HONY_T1	0	1	1	0	0	0	-0.28	-0.33	1	1	0	600	600	0
8/15/2024 17:59	44301	BEAV_T2	0	0	0	0	0	0	-0.19	-0.19	1	1	0	600	600	0
8/15/2024 18:00	44301	BEAV_T2	0	0	0	0	0	0	-0.19	-0.19	1	1	0	600	600	0
8/15/2024 18:01	61701	ELIZ_T1	1	1	0	1.1	1.5	0.4	1.14	1.16	0	0	0	0	0	0
8/15/2024 18:02	61701	ELIZ_T1	1	1	0	1.1	1.5	0.4	1.14	1.16	0	0	0	0	0	0
8/15/2024 18:02	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 18:04	61701	ELIZ_T1	1	1	0	1.1	1.5	0.4	1.14	1.16	0	0	0	0	0	0
8/15/2024 18:11	43304	WATS_T2	3	0	-3	0.83	0	-0.83	0	0	0	0	0	0	0	0
8/15/2024 18:11	43301	WATS_T2	0	0	0	0	0	0	-0.08	-0.05	1	1	0	900	900	0
8/15/2024 18:22	61701	ELIZ_T1	1	1	0	1.3	1.7	0.4	1.08	0.94	0	0	0	0	0	0
8/15/2024 18:23	42903	MIDD_T2	2	2	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
8/15/2024 18:23	42901	MIDD_T2	3	3	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
8/15/2024 18:23	42902	MIDD_T2	26	10	-16	0.85	1.02	0.17	-0.14	-0.02	0	0	0	0	0	0
8/15/2024 18:24	42902	MIDD_T2	26	10	-16	0.85	1.02	0.17	-0.14	-0.02	0	0	0	0	0	0
8/15/2024 18:24	42903	MIDD_T2	2	2	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
8/15/2024 18:24	42901	MIDD_T2	3	3	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
8/15/2024 18:33	64503	LAVI_T1	0	0	0	0	0	0	-2.2	-2.21	2	2	0	2400	2400	0
8/15/2024 18:35	64503	LAVI_T1	0	0	0	0	0	0	-2.2	-2.21	2	2	0	2400	2400	0
8/15/2024 18:48	11101	EGYP_T1	0	0	0	0	0	0	-0.06	-0.12	1	1	0	1200	1200	0
8/15/2024 18:48	11104	EGYP_T1	5	7	2	0.7	0.44	-0.26	0	0	0	0	0	0	0	0
8/15/2024 18:48	11102	EGYP_T1	5	5	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
8/15/2024 18:56	67502	WEWI_T2	0	0	0	0	0	0	-0.97	-0.89	1	1	0	900	900	0
8/15/2024 18:56	67503	WEWI_T2	1	1	0	4.4	4.8	0.4	0	0	0	0	0	0	0	0
8/15/2024 19:02	67503	WEWI_T2	1	1	0	4.4	4.8	0.4	0	0	0	0	0	0	0	0
8/15/2024 19:02	67502	WEWI_T2	0	1	1	0	0	0	-0.97	-0.89	1	1	0	900	900	0
8/15/2024 19:02	16006	DORN_T2	1	5	4	0.2	0	-0.2	-0.84	-0.85	1	1	0	1200	1200	0
8/15/2024 19:02	16002	DORN_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/15/2024 19:07	47502	NECO_T1	2	2	0	0.7	0.7	0	1.16	1.13	0	0	0	0	0	0
8/15/2024 19:08	47502	NECO_T1	2	2	0	0.7	0.7	0	1.16	1.13	0	0	0	0	0	0
8/15/2024 19:10	24204	PROV_T3	2	1	-1	2.9	5.6	2.7	0	0	0	0	0	0	0	0
8/15/2024 19:10	24205	PROV_T3	15	15	0	0.15	0.16	0.01	0	0	0	0	0	0	0	0
8/15/2024 19:10	24201	PROV_T3	4	14	10	1.88	0.63	-1.25	-0.99	-0.99	1	1	0	1200	1200	0
8/15/2024 19:13	43302	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/15/2024 19:13	43304	WATS_T2	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
8/15/2024 19:18	67604	WARW_T1	0	0	0	0	0	0	0.38	0.33	0	0	0	0	0	0
8/15/2024 19:18	67605	WARW_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
8/15/2024 19:22	64503	LAVI_T1	0	0	0	0	0	0	0.35	0.15	1	1	0	1200	1200	0
8/15/2024 19:26	15404	WALL_T1	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
8/15/2024 20:41	46206	DANV_T2	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
8/15/2024 20:41	46203	DANV_T2	1	0	-1	0.2	0	-0.2	-0.3	-0.25	0	0	0	0	0	0
8/15/2024 20:42	46302	ROHR_T1	2	2	0	1.8	2	0.2	0.22	0.23	0	0	0	0	0	0
8/15/2024 20:42	46301	ROHR_T1	1	1	0	6.4	6.7	0.3	0.7	0.66	0	0	0	0	0	0
8/15/2024 20:44	46302	ROHR_T1	2	2	0	1.8	2	0.2	0.22	0.23	0	0	0	0	0	0
8/15/2024 20:44	46301	ROHR_T1	1	1	0	6.4	6.7	0.3	0	0	0	0	0	0	0	0
8/15/2024 21:04	47001	HUGH_T2	3	3	0	8.13	8.63	0.5	-0.3	-0.39	0	0	0	0	0	0
8/15/2024 21:04	47002	HUGH_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/15/2024 21:31	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 21:31	11103	EGYP_T1	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
8/15/2024 21:39	61701	ELIZ_T1	1	1	0	3.7	4.1	0.4	0.72	0.64	0	0	0	0	0	0
8/15/2024 21:44	63602	LETO_T1	14	1	-13	0.11	0.1	-0.01	-0.49	-0.56	1	1	0	600	600	0
8/15/2024 21:47	65604	QVIL_T2	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
8/15/2024 21:48	64902	MILL_T2	0	0	0	0	0	0	-0.21	-0.25	1	1	0	900	900	0
8/15/2024 21:51	67503	WEWI_T2	1	1	0	6.4	7.2	0.8	0.33	0.29	0	0	0	0	0	0
8/15/2024 21:51	64904	MILL_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
8/15/2024 21:51	64204	KINZ_T1	1	2	1	0.5	0.95	0.45	0	0	0	0	0	0	0	0
8/15/2024 21:51	64201	KINZ_T1	0	0	0	0	0	0	-0.26	-0.19	3	3	0	1500	1500	0
8/15/2024 21:51	41702	LOGA_T2	0	46	46	0	0.18	0.18	0	0	0	0	0	0	0	0
8/15/2024 21:52	11101	EGYP_T1	0	0	0	0	0	0	-0.1	-0.11	1	1	0	1200	1200	0
8/15/2024 21:52	11104	EGYP_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/15/2024 21:52	63402	HONY_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/15/2024 21:52	63403	HONY_T2	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
8/15/2024 21:52	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 21:53	61701	ELIZ_T1	1	1	0	3.7	4.1	0.4	0.64	0.72	0	0	0	0	0	0
8/15/2024 21:53	67603	WARW_T1	0	0	0	0	0	0	0.21	0.15	0	0	0	0	0	0
8/15/2024 21:53	64204	KINZ_T1	1	2	1	0.5	0.95	0.45	0	0	0	0	0	0	0	0
8/15/2024 21:53	66505	SMAN_T2	3	3	0	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
8/15/2024 21:53	65001	NEFF_T2	0	0	0	0	0	0	-0.43	-0.49	1	1	0	1200	1200	0
8/15/2024 21:53	64201	KINZ_T1	0	0	0	0	0	0	-0.26	-0.19	3	3	0	1500	1500	0
8/15/2024 21:53	67605	WARW_T1	3	1	-2	0.4	0.6	0.2	0	0	0	0	0	0	0	0
8/15/2024 21:53	66504	SMAN_T2	0	0	0	0	0	0	-2.07	-2.2	2	2	0	2400	2400	0
8/15/2024 21:53	64101	REFR_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
8/15/2024 21:53	10805	CHHI_T2	1	1	0	7.4	7.5	0.1	-0.66	-0.72	1	1	0	600	600	0
8/15/2024 21:53	65802	RTWN_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
8/15/2024 21:54	17805	GILB_T2	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
8/15/2024 21:54	66703	STRA_T1	5	58	53	0.32	0.17	-0.15	-0.69	-0.73	0	0	0	0	0	0
8/15/2024 21:54	13904	SEID_T1	0	0	0	0	0	0	1.22	1.22	0	0	0	0	0	0
8/15/2024 21:54	42903	MIDD_T2	0	2	2	0	0.35	0.35	-1.11	-1.15	1	1	0	1200	1200	0
8/15/2024 21:54	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 21:54	17803	GILB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/15/2024 21:54	61102	BERK_T5	0	0	0	0	0	0	0.11	-0.11	1	1	0	300	300	0
8/15/2024 21:54	16102	BING_T2	5	7	2	0.18	0.17	-0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/15/2024 21:54	46206	DANV_T2	0	0	0	0	0	0	1.54	1.48	2	2	0	2100	2100	0
8/15/2024 21:54	16101	BING_T2	0	0	0	0	0	0	0.8	0.78	0	0	0	0	0	0
8/15/2024 21:55	46203	DANV_T2	0	0	0	0	0	0	-0.42	-0.46	0	0	0	0	0	0
8/15/2024 21:55	14702	TREX_T2	0	0	0	0	0	0	1.16	1.11	0	0	0	0	0	0
8/15/2024 21:55	60502	NMAN_T2	0	0	0	0	0	0	0.15	-0.03	0	0	0	0	0	0
8/15/2024 21:55	10801	CHHI_T1	0	0	0	0	0	0	-0.85	-0.91	2	2	0	1500	1500	0
8/15/2024 21:55	60101	COCA_T1	0	0	0	0	0	0	0.48	0.47	1	1	0	600	600	0
8/15/2024 21:55	64503	LAVI_T1	0	0	0	0	0	0	-0.08	-0.13	1	1	0	1200	1200	0
8/15/2024 21:55	63602	LETO_T1	1	67	66	0.1	0.18	0.08	-0.56	-0.66	1	1	0	600	600	0
8/15/2024 21:56	17803	GILB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/15/2024 21:56	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 21:56	17805	GILB_T2	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
8/15/2024 21:56	64101	REFR_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
8/15/2024 21:56	63602	LETO_T1	1	67	66	0.1	0.18	0.08	-0.56	-0.66	1	1	0	600	600	0
8/15/2024 21:56	16102	BING_T2	5	7	2	0.18	0.17	-0.01	-0.6	-0.61	1	1	0	1200	1200	0
8/15/2024 21:56	61102	BERK_T5	0	0	0	0	0	0	0.22	-0.23	2	2	0	600	600	0
8/15/2024 21:56	13905	SEID_T1	0	0	0	0	0	0	-0.69	-0.64	1	1	0	1200	1200	0
8/15/2024 21:56	61301	EARL_T1	0	0	0	0	0	0	-0.33	-0.37	1	1	0	900	900	0
8/15/2024 21:56	15702	TANN_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
8/15/2024 21:56	15703	TANN_T2	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
8/15/2024 21:56	66703	STRA_T1	5	58	53	0.32	0.17	-0.15	-0.69	-0.73	0	0	0	0	0	0
8/15/2024 21:56	15404	WALL_T1	0	0	0	0	0	0	-1.24	-1.28	0	0	0	0	0	0
8/15/2024 21:56	61303	EARL_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/15/2024 21:56	15601	NSTR_T2	3	3	0	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
8/15/2024 21:56	15603	NSTR_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
8/15/2024 21:56	23102	MOSC_T2	0	0	0	0	0	0	-3.11	-3.14	2	2	0	1800	1800	0
8/15/2024 21:57	16102	BING_T2	5	7	2	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
8/15/2024 21:57	14401	SSLA_T1	24	65	41	0.14	0.18	0.04	0	0	0	0	0	0	0	0
8/15/2024 21:57	14502	SCHO_T1	1	0	-1	0.1	0	-0.1	0.89	0.87	0	0	0	0	0	0
8/15/2024 21:57	60101	COCA_T1	0	0	0	0	0	0	0.48	0.47	1	1	0	600	600	0
8/15/2024 21:57	64902	MILL_T2	0	0	0	0	0	0	-0.25	-0.25	1	1	0	900	900	0
8/15/2024 21:57	16103	BING_T2	0	0	0	0	0	0	-1	-1.01	1	1	0	900	900	0
8/15/2024 21:57	13503	MCMI_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
8/15/2024 21:57	14403	SSLA_T1	0	0	0	0	0	0	-0.29	-0.34	0	0	0	0	0	0
8/15/2024 21:57	64101	REFR_T1	0	0	0	0	0	0	0.5	0.44	0	0	0	0	0	0
8/15/2024 21:57	63401	HONY_T1	0	0	0	0	0	0	0.03	-0.08	1	1	0	600	600	0
8/15/2024 21:57	43302	WATS_T2	1	4	3	0.1	0.48	0.38	0	0	0	0	0	0	0	0
8/15/2024 21:57	60801	BUCK_T1	0	0	0	0	0	0	-0.06	-0.11	0	0	0	0	0	0
8/15/2024 21:57	67503	WEWI_T2	1	1	0	6.4	7.2	0.8	0.33	0.29	0	0	0	0	0	0
8/15/2024 21:57	45501	DERR_T2	0	0	0	0	0	0	0.03	-0.09	2	2	0	1800	1800	0
8/15/2024 21:57	14404	SSLA_T1	3	5	2	3.4	2.36	-1.04	0	0	0	0	0	0	0	0
8/15/2024 21:57	63404	HONY_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 21:57	63501	HEID_TBK1-2	55	56	1	1.49	1.69	0.2	-0.1	-0.18	1	1	0	900	900	0
8/15/2024 21:57	66505	SMAN_T2	3	3	0	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
8/15/2024 21:57	43301	WATS_T2	0	1	1	0	0.2	0.2	-0.35	0.6	1	0	-1	900	0	-900
8/15/2024 21:57	64503	LAVI_T1	0	0	0	0	0	0	-0.08	-0.13	1	1	0	1200	1200	0
8/15/2024 21:57	60803	BUCK_T1	12	10	-2	0.23	0.19	-0.04	0	0	0	0	0	0	0	0
8/15/2024 21:57	14402	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 21:57	16402	MOPO_T1	0	0	0	0	0	0	0.27	0.16	0	0	0	0	0	0
8/15/2024 21:57	66504	SMAN_T2	0	0	0	0	0	0	-1.03	-1.1	1	1	0	1200	1200	0
8/15/2024 21:58	17802	GILB_T1	0	1	1	0	0.2	0.2	0.16	0.28	0	0	0	0	0	0
8/15/2024 21:58	64602	LEOL_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
8/15/2024 21:58	67605	WARW_T1	3	1	-2	0.4	0.6	0.2	-0.97	-1.04	0	0	0	0	0	0
8/15/2024 21:58	16302	ALPA_T2	0	0	0	0	0	0	-0.53	-0.88	0	0	0	0	0	0
8/15/2024 21:58	44201	POIN_T1	0	0	0	0	0	0	-1.3	-1.28	2	2	0	2100	2100	0
8/15/2024 21:58	11507	FREE_T2	32	19	-13	0.55	0.68	0.13	1.39	1.27	1	1	0	600	600	0
8/15/2024 21:58	13702	SCHO_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
8/15/2024 21:58	45501	DERR_T2	0	0	0	0	0	0	0.03	-0.09	2	2	0	1800	1800	0
8/15/2024 21:59	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 21:59	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 21:59	28702	HAMI_T2	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
8/15/2024 21:59	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 21:59	67605	WARW_T1	3	1	-2	0.4	0.6	0.2	-0.97	-1.04	0	0	0	0	0	0
8/15/2024 21:59	44203	POIN_T2	0	0	0	0	0	0	-0.23	-0.26	2	2	0	2100	2100	0
8/15/2024 21:59	17803	GILB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/15/2024 21:59	63401	HONY_T1	0	0	0	0	0	0	0.03	-0.08	1	1	0	600	600	0
8/15/2024 21:59	65604	QVIL_T2	0	0	0	0	0	0	0.63	0.56	0	0	0	0	0	0
8/15/2024 21:59	14303	SUMN_T1	3	3	0	6.27	6.4	0.13	0	0	0	0	0	0	0	0
8/15/2024 21:59	10805	CHHI_T2	1	1	0	7.4	7.5	0.1	-0.66	-0.72	1	1	0	600	600	0
8/15/2024 21:59	10801	CHHI_T1	0	0	0	0	0	0	-0.85	-0.91	2	2	0	1500	1500	0
8/15/2024 21:59	66703	STRA_T1	5	58	53	0.32	0.17	-0.15	-0.69	-0.73	0	0	0	0	0	0
8/15/2024 21:59	44801	EDAN_T2	44	74	30	0.33	0.36	0.03	0	0	0	0	0	0	0	0
8/15/2024 21:59	14308	SUMN_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
8/15/2024 21:59	11104	EGYP_T1	0	2	2	0	0.25	0.25	0.57	0.53	0	0	0	0	0	0
8/15/2024 21:59	13503	MCMI_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
8/15/2024 21:59	14203	EALL_T1	0	0	0	0	0	0	0.02	0.03	1	1	0	1200	1200	0
8/15/2024 21:59	14702	TREX_T2	0	0	0	0	0	0	1.16	1.11	0	0	0	0	0	0
8/15/2024 21:59	44802	EDAN_T2	0	0	0	0	0	0	-0.87	-0.91	0	0	0	0	0	0
8/15/2024 21:59	63404	HONY_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 21:59	44202	POIN_T2	1	1	0	2.9	2.3	-0.6	0	0	0	0	0	0	0	0
8/15/2024 21:59	44201	POIN_T1	0	0	0	0	0	0	-1.3	-1.28	2	2	0	2100	2100	0
8/15/2024 21:59	14306	SUMN_T1	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
8/15/2024 21:59	17805	GILB_T2	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
8/15/2024 22:00	67602	WARW_T2	0	0	0	0	0	0	0.42	0.44	1	1	0	300	300	0
8/15/2024 22:00	44802	EDAN_T2	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
8/15/2024 22:00	67502	WEWI_T2	0	0	0	0	0	0	-1	-1.03	1	1	0	900	900	0
8/15/2024 22:00	10805	CHHI_T2	1	1	0	7.7	7.4	-0.3	-0.66	-0.72	1	1	0	600	600	0
8/15/2024 22:00	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 22:00	44201	POIN_T1	0	0	0	0	0	0	-1.3	-1.28	2	2	0	2100	2100	0
8/15/2024 22:00	16402	MOPO_T1	0	1	1	0	0	0	0.27	0.16	0	0	0	0	0	0
8/15/2024 22:00	67503	WEWI_T2	1	1	0	6.7	7.6	0.9	0	0	0	0	0	0	0	0
8/15/2024 22:00	67605	WARW_T1	1	0	-1	0.6	0	-0.6	-1.94	-2.08	0	0	0	0	0	0
8/15/2024 22:00	44801	EDAN_T2	62	69	7	0.39	0.32	-0.07	0	0	0	0	0	0	0	0
8/15/2024 22:01	44201	POIN_T1	0	0	0	0	0	0	-1.3	-1.28	2	2	0	2100	2100	0
8/15/2024 22:01	63304	GREE_T1	0	0	0	0	0	0	-1.29	-1.36	0	0	0	0	0	0
8/15/2024 22:01	25503	MADI_T1	2	4	2	0.15	0.15	0	-0.81	-0.81	0	0	0	0	0	0
8/15/2024 22:01	16006	DORN_T2	0	0	0	0	0	0	0.03	-0.02	0	0	0	0	0	0
8/15/2024 22:01	25501	MADI_T1	3	3	0	1.1	1.33	0.23	0	0	0	0	0	0	0	0
8/15/2024 22:01	65205	PRIN_T1	1	1	0	1.5	2	0.5	0	0	0	0	0	0	0	0
8/15/2024 22:01	14702	TREX_T2	0	0	0	0	0	0	1.16	1.11	0	0	0	0	0	0
8/15/2024 22:01	40902	JESH_T1	0	0	0	0	0	0	-0.57	-0.43	0	0	0	0	0	0
8/15/2024 22:01	46206	DANV_T2	0	0	0	0	0	0	1.54	1.48	2	2	0	2100	2100	0
8/15/2024 22:01	40901	JESH_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/15/2024 22:01	67103	SPRI_T1	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
8/15/2024 22:01	63305	GREE_T1	3	15	12	0.2	0.37	0.17	0	0	0	0	0	0	0	0
8/15/2024 22:01	45501	DERR_T2	0	0	0	0	0	0	0.06	-0.19	4	4	0	3600	3600	0
8/15/2024 22:02	21701	SUBU_T1	1	1	0	5.9	6.3	0.4	0	0	0	0	0	0	0	0
8/15/2024 22:02	64204	KINZ_T1	2	2	0	0.55	1.15	0.6	0	0	0	0	0	0	0	0
8/15/2024 22:02	49804	UNIV_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/15/2024 22:02	44801	EDAN_T2	62	69	7	0.39	0.32	-0.07	0	0	0	0	0	0	0	0
8/15/2024 22:02	17805	GILB_T2	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
8/15/2024 22:02	49803	UNIV_T1	1	1	0	5	5.2	0.2	-3.88	-4.13	0	0	0	0	0	0
8/15/2024 22:02	43301	WATS_T2	1	0	-1	0.2	0	-0.2	-0.7	1.2	2	0	-2	1800	0	-1800
8/15/2024 22:02	64201	KINZ_T1	0	0	0	0	0	0	-0.26	-0.19	3	3	0	1500	1500	0
8/15/2024 22:02	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/15/2024 22:02	64202	KINZ_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
8/15/2024 22:02	63401	HONY_T1	0	0	0	0	0	0	0.03	-0.08	1	1	0	600	600	0
8/15/2024 22:02	60101	COCA_T1	0	0	0	0	0	0	0.48	0.47	1	1	0	600	600	0
8/15/2024 22:02	21705	SUBU_T1	1	1	0	5.4	5.8	0.4	0	0	0	0	0	0	0	0
8/15/2024 22:02	43302	WATS_T2	4	4	0	0.48	0.28	-0.2	0	0	0	0	0	0	0	0
8/15/2024 22:02	15702	TANN_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
8/15/2024 22:02	44802	EDAN_T2	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
8/15/2024 22:02	64101	REFR_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
8/15/2024 22:02	21704	SUBU_T1	0	0	0	0	0	0	-2.33	-2.24	2	2	0	2400	2400	0
8/15/2024 22:02	67805	WLAN_T1	0	19	19	0	0.12	0.12	0	0	0	0	0	0	0	0
8/15/2024 22:02	67503	WEWI_T2	1	1	0	6.7	7.6	0.9	0.33	0.29	0	0	0	0	0	0
8/15/2024 22:02	61102	BERK_T5	0	0	0	0	0	0	0.11	-0.11	1	1	0	300	300	0
8/15/2024 22:02	15703	TANN_T2	1	1	0	5.3	5	-0.3	0	0	0	0	0	0	0	0
8/15/2024 22:02	67803	WLAN_T1	0	0	0	0	0	0	-1.13	-1.16	0	0	0	0	0	0
8/15/2024 22:02	43304	WATS_T2	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
8/15/2024 22:02	64301	LINC_T1	0	0	0	0	0	0	-0.38	-0.52	1	1	0	600	600	0
8/15/2024 22:03	66703	STRA_T1	5	207	202	0.38	0.23	-0.15	-0.69	-0.73	0	0	0	0	0	0
8/15/2024 22:03	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 22:03	47001	HUGH_T2	3	3	0	8.17	8.4	0.23	-0.53	-0.57	0	0	0	0	0	0
8/15/2024 22:03	61102	BERK_T5	0	0	0	0	0	0	0.34	-0.34	3	3	0	900	900	0
8/15/2024 22:03	65901	SAKR_T2	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
8/15/2024 22:03	42801	SELI_T1	0	0	0	0	0	0	-1.86	-1.94	1	1	0	1200	1200	0
8/15/2024 22:03	15703	TANN_T2	1	1	0	5.3	5	-0.3	0	0	0	0	0	0	0	0
8/15/2024 22:03	66505	SMAN_T2	3	3	0	0.17	0.17	0	-0.08	-0.18	3	3	0	2100	2100	0
8/15/2024 22:03	66701	STRA_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
8/15/2024 22:03	44201	POIN_T1	0	0	0	0	0	0	-1.3	-1.28	2	2	0	2100	2100	0
8/15/2024 22:03	65904	SAKR_T2	0	0	0	0	0	0	-1.84	-1.7	3	3	0	1500	1500	0
8/15/2024 22:03	46801	HEPB_T2	35	11	-24	0.33	0.42	0.09	0	0	0	0	0	0	0	0
8/15/2024 22:03	10805	CHHI_T2	1	1	0	7.7	7.4	-0.3	-0.66	-0.72	1	1	0	600	600	0
8/15/2024 22:03	26402	INOR_T1	0	0	0	0	0	0	-1.08	-1.12	0	0	0	0	0	0
8/15/2024 22:03	46803	HEPB_T2	6	0	-6	0.17	0	-0.17	0.71	0.66	0	0	0	0	0	0
8/15/2024 22:03	26401	INOR_T1	1	1	0	9.2	9.9	0.7	0	0	0	0	0	0	0	0
8/15/2024 22:03	14404	SSLA_T1	5	3	-2	2.36	3.63	1.27	0	0	0	0	0	0	0	0
8/15/2024 22:03	64503	LAVI_T1	0	0	0	0	0	0	-0.08	-0.13	1	1	0	1200	1200	0
8/15/2024 22:03	11104	EGYP_T1	0	2	2	0	0.25	0.25	0.57	0.53	0	0	0	0	0	0
8/15/2024 22:03	13904	SEID_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
8/15/2024 22:03	45502	DERR_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
8/15/2024 22:03	12701	MACU_T1	0	0	0	0	0	0	-0.94	-0.89	1	1	0	1200	1200	0
8/15/2024 22:03	14401	SSLA_T1	65	4	-61	0.18	0.1	-0.08	0	0	2	2	0	1800	1800	0
8/15/2024 22:03	64101	REFR_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
8/15/2024 22:03	11102	EGYP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/15/2024 22:03	15702	TANN_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
8/15/2024 22:04	24204	PROV_T3	1	1	0	6	6.3	0.3	0	0	0	0	0	0	0	0
8/15/2024 22:04	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/15/2024 22:04	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 22:04	64802	MONE_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
8/15/2024 22:04	14801	TREI_T2	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
8/15/2024 22:04	45501	DERR_T2	0	0	0	0	0	0	0.03	-0.09	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/15/2024 22:04	12601	MACA_T1	0	0	0	0	0	0	1.13	1.12	0	0	0	0	0	0
8/15/2024 22:04	14802	TREI_T2	0	0	0	0	0	0	0.79	0.74	0	0	0	0	0	0
8/15/2024 22:04	43302	WATS_T2	4	4	0	0.48	0.28	-0.2	0	0	0	0	0	0	0	0
8/15/2024 22:04	24201	PROV_T3	1	1	0	7	7.5	0.5	-1.12	-1.12	1	1	0	1200	1200	0
8/15/2024 22:04	66505	SMAN_T2	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0	0
8/15/2024 22:04	43304	WATS_T2	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
8/15/2024 22:04	11804	FRAN_T1	0	0	0	0	0	0	1.02	1.03	0	0	0	0	0	0
8/15/2024 22:04	67203	TEHI_T1	0	0	0	0	0	0	2.39	2.36	2	2	0	1500	1500	0
8/15/2024 22:04	12603	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/15/2024 22:04	17805	GILB_T2	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
8/15/2024 22:04	12302	LANA_T2	0	0	0	0	0	0	-2.27	-2.37	3	3	0	2700	2700	0
8/15/2024 22:04	64801	MONE_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
8/15/2024 22:04	16302	ALPA_T2	0	0	0	0	0	0	-0.18	-0.29	0	0	0	0	0	0
8/15/2024 22:05	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/15/2024 22:05	42903	MIDD_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
8/15/2024 22:05	21206	ECAR_T2	2	2	0	4.2	8.1	3.9	0.26	0.15	0	0	0	0	0	0
8/15/2024 22:05	14401	SSLA_T1	65	4	-61	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
8/15/2024 22:05	43201	MVIL_T2	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
8/15/2024 22:05	45501	DERR_T2	0	0	0	0	0	0	0.03	-0.09	2	2	0	1800	1800	0
8/15/2024 22:05	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 22:05	46004	BERW_T2	0	0	0	0	0	0	0.2	0.15	0	0	0	0	0	0
8/15/2024 22:05	10801	CHHI_T1	0	0	0	0	0	0	-0.85	-0.91	2	2	0	1500	1500	0
8/15/2024 22:05	64503	LAVI_T1	0	0	0	0	0	0	-0.16	-0.25	2	2	0	2400	2400	0
8/15/2024 22:05	14404	SSLA_T1	5	3	-2	2.36	3.63	1.27	0	0	0	0	0	0	0	0
8/15/2024 22:05	44801	EDAN_T2	62	69	7	0.39	0.32	-0.07	-1.44	-1.51	0	0	0	0	0	0
8/15/2024 22:05	44302	BEAV_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
8/15/2024 22:05	13702	SCHN_T1	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
8/15/2024 22:05	11102	EGYP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/15/2024 22:05	64101	REFR_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
8/15/2024 22:05	16201	POFA_T2	1	104	103	0.1	0.12	0.02	0	0	0	0	0	0	0	0
8/15/2024 22:05	23401	HONE_T2	0	0	0	0	0	0	0.23	0.17	0	0	0	0	0	0
8/15/2024 22:05	43302	WATS_T2	4	4	0	0.48	0.28	-0.2	0	0	0	0	0	0	0	0
8/15/2024 22:05	11104	EGYP_T1	0	2	2	0	0.25	0.25	0.57	0.53	0	0	0	0	0	0
8/15/2024 22:05	43304	WATS_T2	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
8/15/2024 22:05	63501	HEID_TBK1-2	55	56	1	1.7	1.73	0.03	-0.19	-0.35	2	2	0	1800	1800	0
8/15/2024 22:05	21204	ECAR_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/15/2024 22:05	42902	MIDD_T2	0	0	0	0	0	0	-0.78	-0.84	1	1	0	600	600	0
8/15/2024 22:05	44301	BEAV_T2	0	0	0	0	0	0	-0.41	-0.58	1	1	0	600	600	0
8/15/2024 22:05	14403	SSLA_T1	0	0	0	0	0	0	-0.29	-0.34	0	0	0	0	0	0
8/15/2024 22:05	46203	DANV_T2	0	0	0	0	0	0	-0.42	-0.46	0	0	0	0	0	0
8/15/2024 22:06	14401	SSLA_T1	65	4	-61	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
8/15/2024 22:06	46203	DANV_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
8/15/2024 22:06	44203	POIN_T2	0	0	0	0	0	0	-0.26	-0.26	2	2	0	2100	2100	0
8/15/2024 22:06	63602	LETO_T1	0	67	67	0	0.18	0.18	-0.66	-0.6	1	1	0	600	600	0
8/15/2024 22:06	14403	SSLA_T1	0	0	0	0	0	0	-0.34	-0.45	0	0	0	0	0	0
8/15/2024 22:06	67605	WARW_T1	1	0	-1	0.6	0	-0.6	-1.04	-1.09	0	0	0	0	0	0
8/15/2024 22:06	14404	SSLA_T1	5	3	-2	2.36	3.63	1.27	0	0	0	0	0	0	0	0
8/15/2024 22:06	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 22:06	44201	POIN_T1	0	0	0	0	0	0	-1.28	-1.39	2	2	0	2100	2100	0
8/15/2024 22:06	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 22:06	44301	BEAV_T2	0	0	0	0	0	0	-0.58	-0.4	1	1	0	600	600	0
8/15/2024 22:06	42701	AUGU_T1	1	1	0	1	0.4	-0.6	0	0	2	2	0	1800	1800	0
8/15/2024 22:06	44202	POIN_T2	1	1	0	2.6	2	-0.6	0	0	0	0	0	0	0	0
8/15/2024 22:06	46504	LOHA_T1	2	2	0	1.15	0.65	-0.5	0	0	0	0	0	0	0	0
8/15/2024 22:06	46506	LOHA_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
8/15/2024 22:06	67201	TEHI_T1	0	0	0	0	0	0	0.29	0.24	1	1	0	900	900	0
8/15/2024 22:06	10801	CHHI_T1	0	0	0	0	0	0	-0.91	-0.94	2	2	0	1500	1500	0
8/15/2024 22:06	67604	WARW_T1	0	0	0	0	0	0	0.09	0.01	0	0	0	0	0	0
8/15/2024 22:06	46503	LOHA_T1	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
8/15/2024 22:07	43304	WATS_T2	0	0	0	0	0	0	-0.25	-0.36	0	0	0	0	0	0
8/15/2024 22:07	43302	WATS_T2	4	4	0	0.48	0.28	-0.2	0	0	0	0	0	0	0	0
8/15/2024 22:07	61801	EELI_T2	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
8/15/2024 22:07	13503	MCMI_T2	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
8/15/2024 22:07	63305	GREE_T1	3	15	12	0.2	0.37	0.17	0	0	0	0	0	0	0	0
8/15/2024 22:07	66703	STRA_T1	5	207	202	0.38	0.23	-0.15	-1.47	-1.56	0	0	0	0	0	0
8/15/2024 22:07	45501	DERR_T2	0	0	0	0	0	0	-0.09	-0.05	2	2	0	1800	1800	0
8/15/2024 22:07	64101	REFR_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
8/15/2024 22:07	44801	EDAN_T2	62	69	7	0.39	0.32	-0.07	-1.51	-1.5	0	0	0	0	0	0
8/15/2024 22:07	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/15/2024 22:07	47502	NECO_T1	1	1	0	0.8	0.1	-0.7	0.85	0.86	0	0	0	0	0	0
8/15/2024 22:07	67602	WARW_T2	0	0	0	0	0	0	0.44	0.44	1	1	0	300	300	0
8/15/2024 22:07	63304	GREE_T1	0	0	0	0	0	0	-1.36	-1.42	0	0	0	0	0	0
8/15/2024 22:07	66701	STRA_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
8/15/2024 22:08	44802	EDAN_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
8/15/2024 22:08	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 22:08	44801	EDAN_T2	62	69	7	0.39	0.32	-0.07	-1.51	-1.5	0	0	0	0	0	0
8/15/2024 22:08	45402	WBLO_T2	32	26	-6	0.2	0.16	-0.04	-0.48	-0.51	0	0	0	0	0	0
8/15/2024 22:08	43202	MVIL_T2	0	0	0	0	0	0	-0.66	-1.42	0	0	0	0	0	0
8/15/2024 22:08	46801	HEPB_T2	35	11	-24	0.33	0.42	0.09	-0.09	-0.12	0	0	0	0	0	0
8/15/2024 22:08	17804	GILB_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
8/15/2024 22:08	61701	ELIZ_T1	1	1	0	4.1	3.5	-0.6	0	0	0	0	0	0	0	0
8/15/2024 22:08	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 22:08	12701	MACU_T1	0	0	0	0	0	0	-0.89	-0.98	1	1	0	1200	1200	0
8/15/2024 22:08	46803	HEPB_T2	6	0	-6	0.17	0	-0.17	0	0	0	0	0	0	0	0
8/15/2024 22:08	64101	REFR_T1	0	0	0	0	0	0	0.66	0.59	0	0	0	0	0	0
8/15/2024 22:08	45501	DERR_T2	0	0	0	0	0	0	-0.19	-0.09	4	4	0	3600	3600	0
8/15/2024 22:08	42903	MIDD_T2	0	2	2	0	0.7	0.7	-1.15	-1.33	1	1	0	1200	1200	0
8/15/2024 22:08	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 22:09	42903	MIDD_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
8/15/2024 22:09	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/15/2024 22:09	40902	JESH_T1	0	0	0	0	0	0	-0.43	-0.5	0	0	0	0	0	0
8/15/2024 22:09	40901	JESH_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/15/2024 22:09	43302	WATS_T2	4	4	0	0.48	0.28	-0.2	0	0	0	0	0	0	0	0
8/15/2024 22:09	43304	WATS_T2	0	0	0	0	0	0	-0.25	-0.36	0	0	0	0	0	0
8/15/2024 22:09	42902	MIDD_T2	0	0	0	0	0	0	-0.84	-0.77	1	1	0	600	600	0
8/15/2024 22:09	67605	WARW_T1	1	0	-1	0.6	0	-0.6	-1.04	-1.09	0	0	0	0	0	0
8/15/2024 22:10	64101	REFR_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
8/15/2024 22:10	21204	ECAR_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/15/2024 22:10	47502	NECO_T1	1	1	0	0.8	0.1	-0.7	0.85	0.86	0	0	0	0	0	0
8/15/2024 22:10	21206	ECAR_T2	2	2	0	4.2	8.1	3.9	0.15	0.06	0	0	0	0	0	0
8/15/2024 22:10	45501	DERR_T2	0	0	0	0	0	0	-0.09	-0.05	2	2	0	1800	1800	0
8/15/2024 22:10	64204	KINZ_T1	2	2	0	0.55	1.15	0.6	0	0	0	0	0	0	0	0
8/15/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	0.04	0.07	1	1	0	600	600	0
8/15/2024 22:10	16605	PONO_T1	0	0	0	0	0	0	-0.09	-0.11	1	1	0	1200	1200	0
8/15/2024 22:10	64202	KINZ_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
8/15/2024 22:10	64305	LINC_T1	0	0	0	0	0	0	-0.21	-0.33	0	0	0	0	0	0
8/15/2024 22:11	41002	LAUR_T2	60	57	-3	0.88	0.8	-0.08	0.17	0.17	0	0	0	0	0	0
8/15/2024 22:11	63302	GREE_T1	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
8/15/2024 22:11	44801	EDAN_T2	62	69	7	0.39	0.32	-0.07	0	0	0	0	0	0	0	0
8/15/2024 22:11	44802	EDAN_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
8/15/2024 22:11	41001	LAUR_T2	78	79	1	1.02	0.8	-0.22	0	0	0	0	0	0	0	0
8/15/2024 22:11	63305	GREE_T1	3	15	12	0.2	0.37	0.17	0	0	0	0	0	0	0	0
8/15/2024 22:12	67602	WARW_T2	0	0	0	0	0	0	0.44	0.44	1	1	0	300	300	0
8/15/2024 22:12	21501	CEAV_T2	0	0	0	0	0	0	0.24	0.25	1	1	0	1200	1200	0
8/15/2024 22:12	42902	MIDD_T2	0	0	0	0	0	0	-0.84	-0.77	1	1	0	600	600	0
8/15/2024 22:12	44301	BEAV_T2	0	0	0	0	0	0	-0.58	-0.4	1	1	0	600	600	0
8/15/2024 22:12	42903	MIDD_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
8/15/2024 22:12	63501	HEID_TBK1-2	55	56	1	1.7	1.73	0.03	-0.18	-0.21	1	1	0	900	900	0
8/15/2024 22:13	45501	DERR_T2	0	0	0	0	0	0	-0.09	-0.05	2	2	0	1800	1800	0
8/15/2024 22:14	44201	POIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 22:15	46503	LOHA_T1	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
8/15/2024 22:15	46504	LOHA_T1	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
8/15/2024 22:15	46506	LOHA_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
8/15/2024 22:15	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/15/2024 22:19	43102	SMIL_T2	1	3	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/15/2024 22:19	43108	SMIL_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
8/15/2024 22:26	17805	GILB_T2	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
8/15/2024 23:15	60101	COCA_T1	0	0	0	0	0	0	0.41	0.35	1	1	0	600	600	0
8/16/2024 7:10	15404	WALL_T1	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
8/16/2024 7:15	61503	EPET_T1	0	0	0	0	0	0	-0.97	-0.92	0	0	0	0	0	0
8/16/2024 7:21	64101	REFR_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
8/16/2024 7:24	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 7:34	65503	MOJO_T2	0	0	0	0	0	0	-1.16	-1.13	1	1	0	900	900	0
8/16/2024 7:38	15603	NSTR_T2	0	0	0	0	0	0	-0.28	-0.25	0	0	0	0	0	0
8/16/2024 7:39	12006	HATF_T1	0	0	0	0	0	0	-0.32	-0.33	2	2	0	2400	2400	0
8/16/2024 7:44	23901	EFMO_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
8/16/2024 7:45	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 7:48	63501	HEID_TBK1-2	56	56	0	1.52	1.53	0.01	0.69	0.67	0	0	0	0	0	0
8/16/2024 7:48	64904	MILL_T1	0	1	1	0	0	0	-0.38	-0.35	0	0	0	0	0	0
8/16/2024 7:52	66701	STRA_T1	0	0	0	0	0	0	0.02	0.03	1	1	0	600	600	0
8/16/2024 7:55	45602	WOOL_T1	1	0	-1	0.1	0	-0.1	1.32	1.36	0	0	0	0	0	0
8/16/2024 7:59	63305	GREE_T1	1	1	0	0.1	0.1	0	-1.81	-1.82	1	1	0	900	900	0
8/16/2024 8:01	63501	HEID_TBK1-2	56	56	0	1.63	1.55	-0.08	0.67	0.7	0	0	0	0	0	0
8/16/2024 8:02	63305	GREE_T1	1	1	0	0.1	0.2	0.1	-1.81	-1.82	1	1	0	900	900	0
8/16/2024 8:06	60502	NMAN_T2	1	1	0	0.5	0.4	-0.1	-0.75	-0.81	0	0	0	0	0	0
8/16/2024 8:08	60502	NMAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/16/2024 8:08	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 8:12	67801	WLAN_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/16/2024 8:12	67804	WLAN_T1	0	1	1	0	0.1	0.1	-1.05	-1.03	0	0	0	0	0	0
8/16/2024 8:13	67801	WLAN_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/16/2024 8:13	67804	WLAN_T1	0	1	1	0	0.1	0.1	-1.05	-1.03	0	0	0	0	0	0
8/16/2024 8:24	15702	TANN_T2	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
8/16/2024 8:24	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
8/16/2024 8:26	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
8/16/2024 8:26	15702	TANN_T2	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
8/16/2024 8:29	44301	BEAV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/16/2024 8:31	11405	FARM_T1	0	0	0	0	0	0	-0.75	-0.66	1	1	0	1200	1200	0
8/16/2024 8:35	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/16/2024 8:41	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	-1.02	-1	0	0	0	0	0	0
8/16/2024 8:41	67801	WLAN_T1	2	2	0	0.25	1.05	0.8	0	0	0	0	0	0	0	0
8/16/2024 8:42	67801	WLAN_T1	2	2	0	0.25	1.05	0.8	0	0	0	0	0	0	0	0
8/16/2024 8:42	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	-2.03	-2	0	0	0	0	0	0
8/16/2024 8:42	67503	WEWI_T2	1	1	0	8.3	8	-0.3	0.03	0.03	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/16/2024 8:43	67505	WEWI_T1	0	0	0	0	0	0	0.12	0.1	1	1	0	900	900	0
8/16/2024 8:46	44801	EDAN_T2	112	63	-49	0.44	0.48	0.04	-1.49	-1.53	0	0	0	0	0	0
8/16/2024 8:48	44801	EDAN_T2	112	63	-49	0.44	0.48	0.04	-1.49	-1.53	0	0	0	0	0	0
8/16/2024 8:49	63401	HONY_T1	0	0	0	0	0	0	0.52	0.46	1	1	0	600	600	0
8/16/2024 8:50	63401	HONY_T1	0	0	0	0	0	0	0.52	0.46	1	1	0	600	600	0
8/16/2024 8:50	23401	HONE_T2	0	0	0	0	0	0	0.13	0.08	0	0	0	0	0	0
8/16/2024 9:01	46004	BERW_T2	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
8/16/2024 9:02	61801	EELI_T2	0	1	1	0	0	0	-0.47	-0.38	1	1	0	600	600	0
8/16/2024 9:06	47001	HUGH_T2	3	3	0	8.6	8.77	0.17	-0.58	-0.57	0	0	0	0	0	0
8/16/2024 9:09	67203	TEHI_T1	2	0	-2	0.7	0	-0.7	2.21	2.38	2	2	0	1500	1500	0
8/16/2024 9:10	46301	ROHR_T1	3	3	0	2.57	2.57	0	0	0	0	0	0	0	0	0
8/16/2024 9:10	46302	ROHR_T1	5	4	-1	1.36	1.48	0.12	0.16	0.18	0	0	0	0	0	0
8/16/2024 9:11	14802	TREI_T2	0	0	0	0	0	0	0.76	0.71	0	0	0	0	0	0
8/16/2024 9:11	14801	TREI_T2	2	6	4	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
8/16/2024 9:11	44203	POIN_T2	2	0	-2	0.65	0	-0.65	0.24	0.31	2	2	0	2100	2100	0
8/16/2024 9:12	46301	ROHR_T1	3	3	0	2.57	2.57	0	0	0	0	0	0	0	0	0
8/16/2024 9:12	46302	ROHR_T1	5	4	-1	1.36	1.48	0.12	0.16	0.18	0	0	0	0	0	0
8/16/2024 9:16	45501	DERR_T2	0	0	0	0	0	0	0.56	0.55	2	2	0	1800	1800	0
8/16/2024 9:16	45502	DERR_T2	1	1	0	0.3	0	-0.3	0.32	0.32	1	1	0	300	300	0
8/16/2024 9:18	45502	DERR_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/16/2024 9:18	45501	DERR_T2	0	0	0	0	0	0	0.56	0.55	2	2	0	1800	1800	0
8/16/2024 9:22	64305	LINC_T1	0	0	0	0	0	0	0.17	0.1	0	0	0	0	0	0
8/16/2024 9:31	11507	FREE_T2	1	1	0	0.8	0.9	0.1	1.34	1.37	0	0	0	0	0	0
8/16/2024 9:34	47001	HUGH_T2	3	3	0	8.43	8.73	0.3	-0.57	-0.53	0	0	0	0	0	0
8/16/2024 9:35	64902	MILL_T2	0	0	0	0	0	0	-0.34	-0.35	1	1	0	900	900	0
8/16/2024 9:36	63403	HONY_T2	0	0	0	0	0	0	0.24	0.16	1	1	0	600	600	0
8/16/2024 9:38	64101	REFR_T1	0	0	0	0	0	0	0.07	0.11	0	0	0	0	0	0
8/16/2024 9:40	64902	MILL_T2	0	0	0	0	0	0	-0.35	-0.29	1	1	0	900	900	0
8/16/2024 9:40	64101	REFR_T1	0	0	0	0	0	0	0.2	0.33	0	0	0	0	0	0
8/16/2024 9:41	43304	WATS_T2	0	1	1	0	0.1	0.1	-0.34	-0.38	0	0	0	0	0	0
8/16/2024 9:41	64101	REFR_T1	0	0	0	0	0	0	0.2	0.33	0	0	0	0	0	0
8/16/2024 9:41	43301	WATS_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/16/2024 9:42	43304	WATS_T2	0	1	1	0	0.1	0.1	-0.34	-0.38	0	0	0	0	0	0
8/16/2024 9:42	43301	WATS_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/16/2024 9:43	64101	REFR_T1	0	0	0	0	0	0	0.07	0.11	0	0	0	0	0	0
8/16/2024 9:45	67605	WARW_T1	1	2	1	0.2	0.2	0	-2.44	-2.46	0	0	0	0	0	0
8/16/2024 9:50	67801	WLAN_T1	2	2	0	1.3	1.35	0.05	0	0	0	0	0	0	0	0
8/16/2024 9:50	46802	HEPB_T1	1	1	0	0.9	0.1	-0.8	-0.39	-0.07	0	0	0	0	0	0
8/16/2024 9:50	67804	WLAN_T1	0	1	1	0	0.2	0.2	-0.92	-0.9	0	0	0	0	0	0
8/16/2024 9:56	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 10:00	67502	WEWI_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/16/2024 10:00	11507	FREE_T2	1	2	1	0.9	0.9	0	1.24	1.37	0	0	0	0	0	0
8/16/2024 10:00	64602	LEOL_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
8/16/2024 10:00	67503	WEWI_T2	1	1	0	7.4	7.2	-0.2	0.11	0.24	0	0	0	0	0	0
8/16/2024 10:00	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 10:00	49803	UNIV_T1	1	1	0	6.3	6.2	-0.1	-0.61	-0.67	0	0	0	0	0	0
8/16/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	0.28	0.38	0	0	0	0	0	0
8/16/2024 10:00	63306	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/16/2024 10:00	63305	GREE_T1	0	1	1	0	0.2	0.2	-3.43	-3.57	2	2	0	1800	1800	0
8/16/2024 10:00	12006	HATF_T1	0	0	0	0	0	0	0.09	0.26	2	2	0	2400	2400	0
8/16/2024 10:00	63401	HONY_T1	0	0	0	0	0	0	0.49	0.29	2	2	0	1200	1200	0
8/16/2024 10:04	17802	GILB_T1	0	1	1	0	0.8	0.8	0.36	0.39	0	0	0	0	0	0
8/16/2024 10:07	63403	HONY_T2	0	0	0	0	0	0	-0.32	-0.24	1	1	0	600	600	0
8/16/2024 10:09	44203	POIN_T2	2	5	3	0.95	0.87	-0.08	0.28	0.4	2	2	0	2100	2100	0
8/16/2024 10:09	16402	MOPO_T1	0	0	0	0	0	0	0.28	0.36	0	0	0	0	0	0
8/16/2024 10:11	15702	TANN_T2	0	0	0	0	0	0	-0.12	-0.1	0	0	0	0	0	0
8/16/2024 10:11	15703	TANN_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
8/16/2024 10:12	43304	WATS_T2	1	0	-1	0.1	0	-0.1	-0.28	-0.27	0	0	0	0	0	0
8/16/2024 10:13	43304	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/16/2024 10:13	14802	TREI_T2	0	0	0	0	0	0	0.81	0.91	0	0	0	0	0	0
8/16/2024 10:13	65904	SAKR_T2	0	0	0	0	0	0	-1.89	-1.88	3	3	0	1500	1500	0
8/16/2024 10:13	65901	SAKR_T2	1	1	0	7.3	7.5	0.2	0	0	0	0	0	0	0	0
8/16/2024 10:13	14801	TREI_T2	5	6	1	0.54	0.53	-0.01	0	0	0	0	0	0	0	0
8/16/2024 10:14	15703	TANN_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
8/16/2024 10:14	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 10:14	45502	DERR_T2	0	2	2	0	0	0	0.34	0.24	1	1	0	300	300	0
8/16/2024 10:14	15702	TANN_T2	0	0	0	0	0	0	-0.24	-0.2	0	0	0	0	0	0
8/16/2024 10:14	43304	WATS_T2	1	0	-1	0.1	0	-0.1	-0.28	-0.27	0	0	0	0	0	0
8/16/2024 10:15	43301	WATS_T2	0	0	0	0	0	0	-0.48	-0.44	1	1	0	900	900	0
8/16/2024 10:15	44801	EDAN_T2	55	49	-6	0.38	0.37	-0.01	-1.45	-1.37	0	0	0	0	0	0
8/16/2024 10:16	16101	BING_T2	0	0	0	0	0	0	0.73	0.79	0	0	0	0	0	0
8/16/2024 10:16	45501	DERR_T2	0	0	0	0	0	0	0.74	0.72	2	2	0	1800	1800	0
8/16/2024 10:16	45502	DERR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/16/2024 10:18	67502	WEWI_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
8/16/2024 10:18	67503	WEWI_T2	1	1	0	7.2	7	-0.2	0.24	0.22	0	0	0	0	0	0
8/16/2024 10:18	44801	EDAN_T2	55	49	-6	0.38	0.37	-0.01	-1.45	-1.37	0	0	0	0	0	0
8/16/2024 10:19	61301	EARL_T1	0	0	0	0	0	0	-0.94	-0.93	2	2	0	1800	1800	0
8/16/2024 10:19	45502	DERR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/16/2024 10:19	45501	DERR_T2	0	0	0	0	0	0	0.74	0.72	2	2	0	1800	1800	0
8/16/2024 10:19	23401	HONE_T2	0	0	0	0	0	0	0.27	0.33	0	0	0	0	0	0
8/16/2024 10:20	10801	CHHI_T1	1	1	0	0.2	0	-0.2	-0.23	-0.16	1	1	0	900	900	0
8/16/2024 10:21	63501	HEID_TBK1-2	55	55	0	1.99	1.48	-0.51	0.19	0.25	0	1	1	0	900	900
8/16/2024 10:21	63302	GREE_T1	0	0	0	0	0	0	0.97	1	0	0	0	0	0	0
8/16/2024 10:21	63305	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/16/2024 10:22	63501	HEID_TBK1-2	55	55	0	1.99	1.48	-0.51	0.19	0.25	1	1	0	900	900	0
8/16/2024 10:22	67503	WEWI_T2	1	1	0	7.2	7	-0.2	0.22	0.29	0	0	0	0	0	0
8/16/2024 10:22	67502	WEWI_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
8/16/2024 10:23	16402	MOPO_T1	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
8/16/2024 10:23	65205	PRIN_T1	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
8/16/2024 10:23	63501	HEID_TBK1-2	55	55	0	1.99	1.48	-0.51	0.37	0.51	2	2	0	1800	1800	0
8/16/2024 10:24	25501	MADI_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
8/16/2024 10:24	25503	MADI_T1	0	0	0	0	0	0	-0.78	-0.74	0	0	0	0	0	0
8/16/2024 10:26	42801	SELI_T1	0	0	0	0	0	0	-1.42	-1.35	1	1	0	1200	1200	0
8/16/2024 10:28	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/16/2024 10:28	66505	SMAN_T2	0	0	0	0	0	0	0.3	0.32	3	3	0	2100	2100	0
8/16/2024 10:28	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/16/2024 10:34	26401	INOR_T1	1	2	1	7.1	3.7	-3.4	0	0	0	0	0	0	0	0
8/16/2024 10:34	11104	EGYP_T1	5	6	1	0.4	0.8	0.4	1	1.04	0	0	0	0	0	0
8/16/2024 10:34	26402	INOR_T1	0	0	0	0	0	0	-1.52	-1.58	1	1	0	600	600	0
8/16/2024 10:34	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 10:34	11102	EGYP_T1	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/16/2024 10:35	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 10:35	64203	KINZ_T1	2	2	0	0.85	1.35	0.5	0	0	0	0	0	0	0	0
8/16/2024 10:35	64204	KINZ_T1	1	2	1	0.3	1.5	1.2	0	0	0	0	0	0	0	0
8/16/2024 10:35	11102	EGYP_T1	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/16/2024 10:35	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 10:35	64201	KINZ_T1	0	0	0	0	0	0	-0.4	-0.23	4	4	0	2100	2100	0
8/16/2024 10:35	11104	EGYP_T1	5	6	1	0.4	0.8	0.4	1	1.04	0	0	0	0	0	0
8/16/2024 10:36	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 10:37	44203	POIN_T2	3	7	4	0.87	0.1	-0.77	0.57	0.39	2	2	0	2100	2100	0
8/16/2024 10:38	64201	KINZ_T1	0	0	0	0	0	0	-0.23	-0.24	4	4	0	2100	2100	0
8/16/2024 10:38	64204	KINZ_T1	1	2	1	0.3	1.5	1.2	0	0	0	0	0	0	0	0
8/16/2024 10:38	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 10:38	64203	KINZ_T1	2	2	0	0.85	1.35	0.5	0	0	0	0	0	0	0	0
8/16/2024 10:39	23102	MOSC_T2	0	0	0	0	0	0	-2.62	-0.92	4	4	0	4200	4200	0
8/16/2024 10:39	46302	ROHR_T1	4	4	0	1.48	1.23	-0.25	0.22	0.21	0	0	0	0	0	0
8/16/2024 10:39	64204	KINZ_T1	1	2	1	0.3	1.5	1.2	0	0	0	0	0	0	0	0
8/16/2024 10:39	46301	ROHR_T1	4	3	-1	2.25	2.77	0.52	0	0	0	0	0	0	0	0
8/16/2024 10:39	64203	KINZ_T1	2	2	0	0.85	1.35	0.5	0	0	0	0	0	0	0	0
8/16/2024 10:39	64201	KINZ_T1	0	0	0	0	0	0	-0.23	-0.24	4	4	0	2100	2100	0
8/16/2024 10:39	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 10:40	44203	POIN_T2	3	7	4	0.87	0.1	-0.77	0.57	0.39	2	2	0	2100	2100	0
8/16/2024 10:42	46301	ROHR_T1	4	3	-1	2.25	2.77	0.52	0.32	0.34	0	0	0	0	0	0
8/16/2024 10:42	46302	ROHR_T1	4	4	0	1.48	1.23	-0.25	0.22	0.21	0	0	0	0	0	0
8/16/2024 10:45	67605	WARW_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/16/2024 10:45	67603	WARW_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
8/16/2024 10:47	10801	CHHI_T1	1	7	6	1.1	1.02	-0.08	-0.05	0.02	1	1	0	900	900	0
8/16/2024 10:48	67605	WARW_T1	1	1	0	0.2	0.3	0.1	-0.76	-0.74	0	0	0	0	0	0
8/16/2024 10:48	21501	CEAV_T2	0	0	0	0	0	0	-0.34	-0.45	1	1	0	1200	1200	0
8/16/2024 10:48	16102	BING_T2	0	0	0	0	0	0	0.34	0.49	1	1	0	1200	1200	0
8/16/2024 10:49	10801	CHHI_T1	1	7	6	1.1	1.02	-0.08	-0.05	0.02	1	1	0	900	900	0
8/16/2024 10:50	67503	WEWI_T2	1	1	0	6.8	7	0.2	0.29	0.31	0	0	0	0	0	0
8/16/2024 10:50	67502	WEWI_T2	2	3	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
8/16/2024 10:53	47001	HUGH_T2	3	3	0	7.63	7.23	-0.4	-0.37	-0.36	0	0	0	0	0	0
8/16/2024 10:53	64203	KINZ_T1	2	2	0	1.35	1.35	0	0.39	0.48	3	3	0	2100	2100	0
8/16/2024 10:53	64204	KINZ_T1	2	1	-1	0.2	1.5	1.3	0	0	0	0	0	0	0	0
8/16/2024 10:53	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/16/2024 10:57	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/16/2024 10:57	65001	NEFF_T2	0	0	0	0	0	0	-0.05	0.1	1	1	0	1200	1200	0
8/16/2024 10:57	65005	NEFF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/16/2024 10:59	65206	PRIN_T4	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
8/16/2024 10:59	47001	HUGH_T2	3	3	0	7.63	7.23	-0.4	-0.37	-0.36	0	0	0	0	0	0
8/16/2024 10:59	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/16/2024 10:59	65207	PRIN_T4	2	2	0	0.2	1.1	0.9	0	0	0	0	0	0	0	0
8/16/2024 11:00	67605	WARW_T1	1	1	0	0.3	0.7	0.4	-0.74	-0.7	0	0	0	0	0	0
8/16/2024 11:01	15702	TANN_T2	0	7	7	0	0.37	0.37	-0.11	-0.39	0	0	0	0	0	0
8/16/2024 11:01	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
8/16/2024 11:03	21206	ECAR_T2	1	1	0	7.2	6.9	-0.3	0	0	0	0	0	0	0	0
8/16/2024 11:03	21204	ECAR_T2	1	1	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
8/16/2024 11:03	46301	ROHR_T1	3	3	0	2.7	2.8	0.1	0	0	0	0	0	0	0	0
8/16/2024 11:03	46302	ROHR_T1	4	5	1	1.13	1.16	0.03	0.21	0.22	0	0	0	0	0	0
8/16/2024 11:04	64202	KINZ_T1	1	1	0	1.8	0	-1.8	0	0	0	0	0	0	0	0
8/16/2024 11:04	64203	KINZ_T1	2	2	0	1.4	1.35	-0.05	0.39	0.48	3	3	0	2100	2100	0
8/16/2024 11:04	64204	KINZ_T1	1	1	0	1.5	0.8	-0.7	0	0	0	0	0	0	0	0
8/16/2024 11:07	63602	LETO_T1	0	1	1	0	0.2	0.2	0.11	0.12	0	0	0	0	0	0
8/16/2024 11:08	64902	MILL_T2	0	0	0	0	0	0	-0.8	-0.78	1	1	0	900	900	0
8/16/2024 11:08	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
8/16/2024 11:08	64802	MONE_T2	0	1	1	0	0.1	0.1	0.43	0	0	0	0	0	0	0
8/16/2024 11:08	15702	TANN_T2	0	7	7	0	0.37	0.37	-0.39	-0.33	0	0	0	0	0	0
8/16/2024 11:09	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
8/16/2024 11:09	15702	TANN_T2	0	7	7	0	0.37	0.37	-0.39	-0.33	0	0	0	0	0	0
8/16/2024 11:10	67201	TEHI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/16/2024 11:10	67203	TEHI_T1	15	19	4	0.45	0.8	0.35	2.94	2.83	3	3	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/16/2024 11:10	42801	SELI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 11:10	42802	SELI_T1	0	0	0	0	0	0	-1.17	-1.07	2	2	0	1800	1800	0
8/16/2024 11:12	66502	SMAN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/16/2024 11:12	15702	TANN_T2	0	7	7	0	0.37	0.37	-0.39	-0.33	0	0	0	0	0	0
8/16/2024 11:12	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
8/16/2024 11:12	66504	SMAN_T2	0	0	0	0	0	0	-0.75	-0.69	1	1	0	1200	1200	0
8/16/2024 11:13	66504	SMAN_T2	0	0	0	0	0	0	-1.51	-1.38	2	2	0	2400	2400	0
8/16/2024 11:13	66502	SMAN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/16/2024 11:14	46004	BERW_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
8/16/2024 11:14	42802	SELI_T1	0	0	0	0	0	0	-0.59	-0.53	1	1	0	900	900	0
8/16/2024 11:14	13905	SEID_T1	0	0	0	0	0	0	-0.46	-0.52	1	1	0	1200	1200	0
8/16/2024 11:14	42801	SELI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 11:14	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 11:17	10805	CHHI_T2	1	1	0	8.2	8.1	-0.1	-0.71	-0.81	2	2	0	1800	1800	0
8/16/2024 11:19	10805	CHHI_T2	1	1	0	8.2	8.1	-0.1	-0.71	-0.81	2	2	0	1800	1800	0
8/16/2024 11:24	10805	CHHI_T2	1	1	0	8.2	8.1	-0.1	-0.81	-0.79	2	2	0	1800	1800	0
8/16/2024 11:27	14801	TREI_T2	2	5	3	0.55	0.35	-0.2	0.39	0.38	0	0	0	0	0	0
8/16/2024 11:29	67605	WARW_T1	1	1	0	0.3	0.7	0.4	-1.33	-1.17	0	0	0	0	0	0
8/16/2024 11:30	67605	WARW_T1	1	1	0	0.7	0.5	-0.2	-1.33	-1.17	0	0	0	0	0	0
8/16/2024 11:30	11104	EGYP_T1	5	6	1	1.58	1.64	0.06	1.15	1.18	0	0	0	0	0	0
8/16/2024 11:30	11102	EGYP_T1	3	3	0	0.97	0.87	-0.1	0	0	0	0	0	0	0	0
8/16/2024 11:31	45501	DERR_T2	0	2	2	0	0.3	0.3	0.93	0.93	2	2	0	1800	1800	0
8/16/2024 11:32	67605	WARW_T1	1	1	0	0.7	0.5	-0.2	-0.67	-0.58	0	0	0	0	0	0
8/16/2024 11:36	41001	LAUR_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
8/16/2024 11:36	41002	LAUR_T2	2	4	2	0.7	0.55	-0.15	0.21	0.21	0	0	0	0	0	0
8/16/2024 11:39	21701	SUBU_T1	1	1	0	7.2	7.3	0.1	0	0	0	0	0	0	0	0
8/16/2024 11:39	66703	STRA_T1	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
8/16/2024 11:39	21705	SUBU_T1	1	1	0	6.3	6.4	0.1	0.03	0.07	1	1	0	1200	1200	0
8/16/2024 11:41	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.69	1	1	0	900	900	0
8/16/2024 11:43	66703	STRA_T1	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
8/16/2024 11:45	10805	CHHI_T2	1	7	6	8.3	8.3	0	-0.79	-0.7	2	2	0	1800	1800	0
8/16/2024 11:47	46803	HEPB_T2	1	1	0	0.2	0.5	0.3	0.67	0.68	0	0	0	0	0	0
8/16/2024 11:47	46801	HEPB_T2	2	2	0	1.15	1.3	0.15	0	0	0	0	0	0	0	0
8/16/2024 11:47	11804	FRAN_T1	9	10	1	0.54	0.64	0.1	1.7	1.73	0	0	0	0	0	0
8/16/2024 11:48	10805	CHHI_T2	1	7	6	8.3	8.3	0	-1.57	-1.41	4	4	0	3600	3600	0
8/16/2024 11:50	17804	GILB_T2	1	2	1	0.4	0.5	0.1	-0.41	-0.38	0	0	0	0	0	0
8/16/2024 11:51	17805	GILB_T2	0	0	0	0	0	0	1.62	1.62	0	0	0	0	0	0
8/16/2024 11:51	17804	GILB_T2	1	2	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/16/2024 11:52	63501	HEID_TBK1-2	57	55	-2	1.59	1.99	0.4	0.39	0.45	1	1	0	900	900	0
8/16/2024 11:59	14404	SSLA_T1	60	67	7	0.76	0.98	0.22	0	0	0	0	0	0	0	0
8/16/2024 11:59	14403	SSLA_T1	0	2	2	0	0	0	1.36	1.43	0	0	0	0	0	0
8/16/2024 12:00	60101	COCA_T1	1	1	0	0.2	0.4	0.2	0.81	0.83	1	1	0	600	600	0
8/16/2024 12:00	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 12:01	44703	MUNC_T2	0	0	0	0	0	0	1.03	1.04	0	0	0	0	0	0
8/16/2024 12:01	60101	COCA_T1	1	1	0	0.2	0.4	0.2	0.81	0.83	1	1	0	600	600	0
8/16/2024 12:02	60101	COCA_T1	1	1	0	0.2	0.4	0.2	0.81	0.83	1	1	0	600	600	0
8/16/2024 12:03	44301	BEAV_T2	5	1	-4	0.28	0.4	0.12	-0.12	-0.24	2	1	-1	1500	600	-900
8/16/2024 12:03	44302	BEAV_T2	1	5	4	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
8/16/2024 12:03	60101	COCA_T1	1	1	0	0.2	0.4	0.2	0.81	0.83	1	1	0	600	600	0
8/16/2024 12:05	63803	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/16/2024 12:05	63801	HEMP_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/16/2024 12:05	63804	HEMP_T1	1	1	0	7.9	6.4	-1.5	0.02	-1.19	0	0	0	0	0	0
8/16/2024 12:07	13503	MCMI_T2	3	22	19	0.73	0.39	-0.34	-1.45	-1.4	0	0	0	0	0	0
8/16/2024 12:08	64101	REFR_T1	0	1	1	0	0	0	0.32	0.34	0	0	0	0	0	0
8/16/2024 12:08	47502	NECO_T1	0	0	0	0	0	0	1.28	1.29	0	0	0	0	0	0
8/16/2024 12:09	64101	REFR_T1	0	1	1	0	0	0	0.32	0.34	0	0	0	0	0	0
8/16/2024 12:10	64101	REFR_T1	0	1	1	0	0	0	1.3	1.37	0	0	0	0	0	0
8/16/2024 12:11	64101	REFR_T1	0	1	1	0	0	0	1.3	1.37	0	0	0	0	0	0
8/16/2024 12:11	47502	NECO_T1	0	0	0	0	0	0	1.28	1.29	0	0	0	0	0	0
8/16/2024 12:12	64101	REFR_T1	0	1	1	0	0	0	0.65	0.68	0	0	0	0	0	0
8/16/2024 12:14	44301	BEAV_T2	5	1	-4	0.28	0.4	0.12	0	0	0	0	0	0	0	0
8/16/2024 12:14	44302	BEAV_T2	1	5	4	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
8/16/2024 12:15	44301	BEAV_T2	1	1	0	0.1	0.4	0.3	-0.24	-0.32	1	1	0	600	600	0
8/16/2024 12:15	44302	BEAV_T2	4	1	-3	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/16/2024 12:15	60201	ATGL_T2	0	0	0	0	0	0	0.37	0.26	1	1	0	300	300	0
8/16/2024 12:16	44302	BEAV_T2	4	1	-3	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/16/2024 12:16	44301	BEAV_T2	1	1	0	0.1	0.4	0.3	-0.24	-0.32	1	1	0	600	600	0
8/16/2024 12:16	44703	MUNC_T2	0	0	0	0	0	0	1.04	1.13	0	0	0	0	0	0
8/16/2024 12:17	17804	GILB_T2	2	3	1	0.35	0.55	0.2	0	0	0	0	0	0	0	0
8/16/2024 12:17	17805	GILB_T2	0	0	0	0	0	0	1.08	1.16	0	0	0	0	0	0
8/16/2024 12:17	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/16/2024 12:17	17803	GILB_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/16/2024 12:18	17803	GILB_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/16/2024 12:18	17804	GILB_T2	2	3	1	0.35	0.55	0.2	0	0	0	0	0	0	0	0
8/16/2024 12:18	17805	GILB_T2	0	0	0	0	0	0	1.08	1.16	0	0	0	0	0	0
8/16/2024 12:22	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 12:23	12701	MACU_T1	0	0	0	0	0	0	-0.71	-0.72	1	1	0	1200	1200	0
8/16/2024 12:23	65401	MARI_T1	0	8	8	0	0.4	0.4	0	0	0	0	0	0	0	0
8/16/2024 12:23	65402	MARI_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/16/2024 12:24	12701	MACU_T1	0	0	0	0	0	0	-0.71	-0.72	1	1	0	1200	1200	0
8/16/2024 12:29	61102	BERK_T5	0	0	0	0	0	0	1.18	1.12	2	2	0	600	600	0
8/16/2024 12:32	67801	WLAN_T1	0	0	0	0	0	0	0.31	0.42	0	0	0	0	0	0
8/16/2024 12:32	67804	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/16/2024 12:33	13503	MCMI_T2	20	28	8	0.38	0.36	-0.02	-0.7	-0.69	0	0	0	0	0	0
8/16/2024 12:35	63601	LETO_T1	2	3	1	0.3	0.3	0	0	0	0	0	0	0	0	0
8/16/2024 12:35	63602	LETO_T1	0	1	1	0	0.4	0.4	0.22	0.3	0	0	0	0	0	0
8/16/2024 12:38	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 12:38	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/16/2024 12:43	61102	BERK_T5	0	0	0	0	0	0	0.56	0.53	1	1	0	300	300	0
8/16/2024 12:44	43101	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/16/2024 12:44	43102	SMIL_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 12:44	61102	BERK_T5	0	0	0	0	0	0	0.56	0.53	1	1	0	300	300	0
8/16/2024 12:44	42701	AUGU_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
8/16/2024 12:44	43105	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/16/2024 12:44	43108	SMIL_T2	1	1	0	0.5	0.7	0.2	-0.67	-0.63	1	1	0	1200	1200	0
8/16/2024 12:45	43202	MVIL_T2	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
8/16/2024 12:45	61102	BERK_T5	0	0	0	0	0	0	1.68	1.6	3	3	0	900	900	0
8/16/2024 12:46	61102	BERK_T5	0	0	0	0	0	0	0.56	0.53	1	1	0	300	300	0
8/16/2024 12:47	44801	EDAN_T2	4	27	23	0.53	0.42	-0.11	-1.19	-1.17	0	0	0	0	0	0
8/16/2024 12:47	61102	BERK_T5	0	0	0	0	0	0	0.56	0.53	1	1	0	300	300	0
8/16/2024 12:48	61703	ELIZ_T1	0	0	0	0	0	0	-2.04	-2.03	2	2	0	2100	2100	0
8/16/2024 12:48	61701	ELIZ_T1	2	1	-1	0.95	1.6	0.65	0	0	0	0	0	0	0	0
8/16/2024 12:49	61703	ELIZ_T1	0	0	0	0	0	0	-2.04	-2.03	2	2	0	2100	2100	0
8/16/2024 12:49	61701	ELIZ_T1	2	1	-1	0.95	1.6	0.65	0	0	0	0	0	0	0	0
8/16/2024 12:50	61701	ELIZ_T1	2	1	-1	0.95	1.6	0.65	0	0	0	0	0	0	0	0
8/16/2024 12:50	61703	ELIZ_T1	0	0	0	0	0	0	-4.08	-4.07	4	4	0	4200	4200	0
8/16/2024 12:50	46801	HEPB_T2	2	2	0	0.95	0.9	-0.05	0.13	0.22	0	0	0	0	0	0
8/16/2024 12:50	63602	LETO_T1	1	1	0	0.3	0.4	0.1	0.3	0.33	0	0	0	0	0	0
8/16/2024 12:50	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/16/2024 12:50	63601	LETO_T1	1	3	2	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/16/2024 12:51	63601	LETO_T1	1	3	2	0.5	0.3	-0.2	0.2	0.23	3	3	0	2700	2700	0
8/16/2024 12:51	63602	LETO_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/16/2024 12:52	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 12:52	16203	POFA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/16/2024 12:52	63601	LETO_T1	1	3	2	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/16/2024 12:52	63602	LETO_T1	1	1	0	0.3	0.4	0.1	0.33	0.32	0	0	0	0	0	0
8/16/2024 12:54	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/16/2024 12:54	60502	NMAN_T2	0	0	0	0	0	0	0.54	0.48	0	0	0	0	0	0
8/16/2024 12:59	67203	TEHI_T1	3	2	-1	1.37	0.6	-0.77	0	0	0	0	0	0	0	0
8/16/2024 12:59	67201	TEHI_T1	0	0	0	0	0	0	1.2	0.9	2	2	0	1500	1500	0
8/16/2024 13:14	66703	STRA_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
8/16/2024 13:14	16005	DORN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/16/2024 13:24	44201	POIN_T1	0	0	0	0	0	0	-0.31	-0.46	2	2	0	2100	2100	0
8/16/2024 13:26	66703	STRA_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
8/16/2024 13:27	49804	UNIV_T1	0	0	0	0	0	0	1.23	1.36	0	0	0	0	0	0
8/16/2024 13:27	49803	UNIV_T1	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
8/16/2024 13:29	16103	BING_T2	0	1	1	0	0	0	-1.16	-1.15	2	2	0	1500	1500	0
8/16/2024 13:29	16102	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 13:30	44802	EDAN_T2	0	0	0	0	0	0	-2.93	-2.97	0	0	0	0	0	0
8/16/2024 13:30	44801	EDAN_T2	15	11	-4	0.39	0.44	0.05	0	0	0	0	0	0	0	0
8/16/2024 13:31	43301	WATS_T2	0	0	0	0	0	0	-0.15	-0.15	1	1	0	900	900	0
8/16/2024 13:31	44801	EDAN_T2	15	11	-4	0.39	0.44	0.05	0	0	0	0	0	0	0	0
8/16/2024 13:31	44802	EDAN_T2	0	0	0	0	0	0	-1.46	-1.49	0	0	0	0	0	0
8/16/2024 13:32	44802	EDAN_T2	0	0	0	0	0	0	-1.46	-1.49	0	0	0	0	0	0
8/16/2024 13:32	44801	EDAN_T2	15	11	-4	0.39	0.44	0.05	0	0	0	0	0	0	0	0
8/16/2024 13:33	44801	EDAN_T2	15	11	-4	0.39	0.44	0.05	0	0	0	0	0	0	0	0
8/16/2024 13:33	44802	EDAN_T2	0	0	0	0	0	0	-1.46	-1.49	0	0	0	0	0	0
8/16/2024 13:35	17802	GILB_T1	0	0	0	0	0	0	0.39	0.43	0	0	0	0	0	0
8/16/2024 13:35	44802	EDAN_T2	0	0	0	0	0	0	-1.46	-1.49	0	0	0	0	0	0
8/16/2024 13:35	44801	EDAN_T2	15	11	-4	0.39	0.44	0.05	0	0	0	0	0	0	0	0
8/16/2024 13:36	43202	MVIL_T2	0	0	0	0	0	0	-0.7	-0.66	0	0	0	0	0	0
8/16/2024 13:36	17803	GILB_T2	5	11	6	0.68	1.1	0.42	0	0	0	0	0	0	0	0
8/16/2024 13:36	17805	GILB_T2	0	0	0	0	0	0	-0.54	-0.45	0	0	0	0	0	0
8/16/2024 13:36	17804	GILB_T2	3	3	0	0.67	0.45	-0.22	0	0	0	0	0	0	0	0
8/16/2024 13:38	43202	MVIL_T2	0	0	0	0	0	0	-0.7	-0.66	0	0	0	0	0	0
8/16/2024 13:42	64802	MONE_T2	1	1	0	0.7	0	-0.7	0.44	0.46	0	0	0	0	0	0
8/16/2024 13:42	66703	STRA_T1	0	0	0	0	0	0	0.07	0.41	0	0	0	0	0	0
8/16/2024 13:44	42802	SELI_T1	0	0	0	0	0	0	-0.33	-0.3	1	1	0	900	900	0
8/16/2024 13:44	16302	ALPA_T2	0	0	0	0	0	0	0.14	0.32	0	0	0	0	0	0
8/16/2024 13:46	42802	SELI_T1	0	0	0	0	0	0	-0.33	-0.3	1	1	0	900	900	0
8/16/2024 13:47	42802	SELI_T1	0	0	0	0	0	0	-0.33	-0.3	1	1	0	900	900	0
8/16/2024 13:48	42802	SELI_T1	0	0	0	0	0	0	-1	-0.91	3	3	0	2700	2700	0
8/16/2024 13:48	66501	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/16/2024 13:48	66505	SMAN_T2	3	3	0	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
8/16/2024 13:48	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 13:49	12305	LANA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/16/2024 13:49	12301	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 13:49	47202	FAXO_T2	0	0	0	0	0	0	-1.78	-1.78	0	0	0	0	0	0
8/16/2024 13:49	12304	LANA_T2	2	4	2	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/16/2024 13:49	12302	LANA_T2	0	0	0	0	0	0	-1.85	-1.84	3	3	0	2700	2700	0
8/16/2024 13:49	16302	ALPA_T2	0	0	0	0	0	0	0.42	0.97	0	0	0	0	0	0
8/16/2024 13:50	45702	LIND_T2	2	5	3	0.55	0.6	0.05	-1.41	-1.3	0	0	0	0	0	0
8/16/2024 13:50	64305	LINC_T1	1	1	0	1	1.3	0.3	0.66	0.65	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/16/2024 13:53	67505	WEWI_T1	0	0	0	0	0	0	0.76	0.85	1	1	0	900	900	0
8/16/2024 13:56	66703	STRA_T1	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
8/16/2024 13:57	66703	STRA_T1	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
8/16/2024 13:58	66501	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/16/2024 13:58	66505	SMAN_T2	3	3	0	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
8/16/2024 13:58	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 14:00	46506	LOHA_T1	0	0	0	0	0	0	-1.71	-1.69	2	2	0	2100	2100	0
8/16/2024 14:00	46501	LOHA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/16/2024 14:00	46504	LOHA_T1	2	2	0	0.1	0.75	0.65	0	0	0	0	0	0	0	0
8/16/2024 14:03	13702	SCHN_T1	0	0	0	0	0	0	-0.42	0.7	0	0	0	0	0	0
8/16/2024 14:08	44201	POIN_T1	0	0	0	0	0	0	-0.74	-0.91	2	2	0	2100	2100	0
8/16/2024 14:10	46504	LOHA_T1	2	2	0	0.1	0.75	0.65	0	0	0	0	0	0	0	0
8/16/2024 14:10	46506	LOHA_T1	0	0	0	0	0	0	-1.69	-1.61	2	2	0	2100	2100	0
8/16/2024 14:10	13702	SCHN_T1	0	0	0	0	0	0	0.7	-0.45	0	0	0	0	0	0
8/16/2024 14:10	46501	LOHA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/16/2024 14:13	13702	SCHN_T1	0	0	0	0	0	0	0.7	-0.45	0	0	0	0	0	0
8/16/2024 14:14	12202	FOGE_T2	1	2	1	0.3	0.5	0.2	0	0	1	1	0	600	600	0
8/16/2024 14:15	16302	ALPA_T2	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
8/16/2024 14:16	16302	ALPA_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
8/16/2024 14:18	44801	EDAN_T2	8	7	-1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/16/2024 14:18	44802	EDAN_T2	0	0	0	0	0	0	-1.4	-1.41	0	0	0	0	0	0
8/16/2024 14:19	44801	EDAN_T2	8	7	-1	0.4	0.7	0.3	-1.12	-1.1	0	0	0	0	0	0
8/16/2024 14:22	46903	MNTG_T2	2	1	-1	0.3	0.4	0.1	0.66	0.59	1	1	0	600	600	0
8/16/2024 14:23	64305	LINC_T1	1	1	0	1.3	0	-1.3	0.52	-0.23	0	0	0	0	0	0
8/16/2024 14:24	43202	MVIL_T2	0	0	0	0	0	0	-0.66	-0.6	0	0	0	0	0	0
8/16/2024 14:26	46501	LOHA_T1	1	7	6	1.5	0.4	-1.1	0	0	0	0	0	0	0	0
8/16/2024 14:26	46506	LOHA_T1	0	0	0	0	0	0	-1.61	-1.66	2	2	0	2100	2100	0
8/16/2024 14:26	46504	LOHA_T1	2	2	0	0.75	0.25	-0.5	0	0	0	0	0	0	0	0
8/16/2024 14:28	13503	MCMI_T2	11	17	6	0.42	0.44	0.02	-0.6	-0.6	0	0	0	0	0	0
8/16/2024 14:28	45402	WBLO_T2	2	2	0	0.9	0.65	-0.25	-1.78	-1.7	2	2	0	1800	1800	0
8/16/2024 14:30	46901	MNTG_T2	0	0	0	0	0	0	0.7	0.83	1	1	0	1200	1200	0
8/16/2024 14:30	46903	MNTG_T2	1	2	1	0.3	0.65	0.35	0	0	0	0	0	0	0	0
8/16/2024 14:32	67602	WARW_T2	0	0	0	0	0	0	0.77	0.75	1	1	0	300	300	0
8/16/2024 14:34	67602	WARW_T2	0	0	0	0	0	0	0.77	0.75	1	1	0	300	300	0
8/16/2024 14:37	42902	MIDD_T2	1	1	0	1.5	2	0.5	0.08	-0.09	1	1	0	600	600	0
8/16/2024 14:37	42903	MIDD_T2	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/16/2024 14:37	67503	WEWI_T2	1	3	2	4.4	3.8	-0.6	0.67	0.7	0	0	0	0	0	0
8/16/2024 14:39	47403	PENS_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
8/16/2024 14:39	47402	PENS_T1	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
8/16/2024 14:39	47401	PENS_T1	3	3	0	1.47	0.83	-0.64	1.39	1.36	0	0	0	0	0	0
8/16/2024 14:40	47401	PENS_T1	3	3	0	1.47	0.83	-0.64	0.7	0.68	0	0	0	0	0	0
8/16/2024 14:40	47402	PENS_T1	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
8/16/2024 14:40	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/16/2024 14:40	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 14:40	47403	PENS_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
8/16/2024 14:50	46002	BERW_T2	0	0	0	0	0	0	-0.15	-0.18	1	1	0	900	900	0
8/16/2024 14:51	46504	LOHA_T1	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
8/16/2024 14:51	46506	LOHA_T1	0	0	0	0	0	0	-1.63	-1.61	2	2	0	2100	2100	0
8/16/2024 14:51	46501	LOHA_T1	7	3	-4	0.76	0.2	-0.56	0	0	0	0	0	0	0	0
8/16/2024 14:53	67503	WEWI_T2	3	2	-1	1.7	3.2	1.5	0.7	0.7	0	0	0	0	0	0
8/16/2024 14:54	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/16/2024 15:00	46206	DANV_T2	7	6	-1	0.83	0.97	0.14	1.36	1.34	4	4	0	4200	4200	0
8/16/2024 15:01	46504	LOHA_T1	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
8/16/2024 15:01	46501	LOHA_T1	2	2	0	1.45	0	-1.45	0	0	0	0	0	0	0	0
8/16/2024 15:01	46506	LOHA_T1	0	0	0	0	0	0	-1.63	-1.61	2	2	0	2100	2100	0
8/16/2024 15:02	46206	DANV_T2	7	6	-1	0.83	0.97	0.14	0.68	0.67	2	2	0	2100	2100	0
8/16/2024 15:05	44801	EDAN_T2	6	9	3	0.52	0.46	-0.06	-1.08	-1.09	0	0	0	0	0	0
8/16/2024 15:07	63602	LETO_T1	0	0	0	0	0	0	-0.1	-0.11	1	1	0	600	600	0
8/16/2024 15:07	63203	MGTN_T1	0	0	0	0	0	0	-0.45	-0.48	2	2	0	1200	1200	0
8/16/2024 15:07	63601	LETO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/16/2024 15:08	67505	WEWI_T1	0	0	0	0	0	0	0.84	0.94	1	1	0	900	900	0
8/16/2024 15:09	44202	POIN_T2	0	1	1	0	0	0	-0.3	-0.06	1	1	0	1200	1200	0
8/16/2024 15:09	67503	WEWI_T2	1	4	3	3.2	3.1	-0.1	0.7	0.71	0	0	0	0	0	0
8/16/2024 15:10	60504	NMAN_T2	2	1	-1	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
8/16/2024 15:10	60502	NMAN_T2	0	0	0	0	0	0	-0.16	-0.32	0	0	0	0	0	0
8/16/2024 15:11	60504	NMAN_T2	2	1	-1	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
8/16/2024 15:11	60502	NMAN_T2	0	0	0	0	0	0	-0.16	-0.32	0	0	0	0	0	0
8/16/2024 15:15	46203	DANV_T2	0	1	1	0	0	0	-1.27	-1.27	0	0	0	0	0	0
8/16/2024 15:15	46206	DANV_T2	4	6	2	0.98	0.73	-0.25	0	0	0	0	0	0	0	0
8/16/2024 15:16	46203	DANV_T2	0	1	1	0	0	0	-1.27	-1.27	0	0	0	0	0	0
8/16/2024 15:16	46206	DANV_T2	4	6	2	0.98	0.73	-0.25	0	0	0	0	0	0	0	0
8/16/2024 15:19	46203	DANV_T2	0	1	1	0	0	0	-1.27	-1.27	0	0	0	0	0	0
8/16/2024 15:19	46206	DANV_T2	4	6	2	0.98	0.73	-0.25	0	0	0	0	0	0	0	0
8/16/2024 15:20	42902	MIDD_T2	1	4	3	2.6	0.83	-1.77	-0.45	-0.4	1	1	0	600	600	0
8/16/2024 15:20	42903	MIDD_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
8/16/2024 15:25	65601	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 15:25	65604	QVIL_T2	0	1	1	0	0	0	0.95	0.96	0	0	0	0	0	0
8/16/2024 15:26	40902	JESH_T1	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
8/16/2024 15:26	40901	JESH_T1	3	0	-3	1.13	1.03	-0.1	-0.05	-0.08	1	1	0	900	900	0
8/16/2024 15:28	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 15:28	65604	QVIL_T2	0	1	1	0	0	0	0.95	0.96	0	0	0	0	0	0
8/16/2024 15:28	65601	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 15:31	61101	BERK_T5	0	2	2	0	0	0	-0.28	-0.22	0	0	0	0	0	0
8/16/2024 15:31	14203	EALL_T1	0	0	0	0	0	0	0.64	0.59	1	1	0	1200	1200	0
8/16/2024 15:32	14201	EALL_T1	0	0	0	0	0	0	-0.67	-0.7	0	0	0	0	0	0
8/16/2024 15:32	14203	EALL_T1	0	0	0	0	0	0	0.64	0.59	1	1	0	1200	1200	0
8/16/2024 15:33	11101	EGYP_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/16/2024 15:33	11104	EGYP_T1	5	6	1	1.26	1.32	0.06	0	0	0	0	0	0	0	0
8/16/2024 15:33	11102	EGYP_T1	3	5	2	2.03	1.7	-0.33	1.12	1.16	0	0	0	0	0	0
8/16/2024 15:33	14203	EALL_T1	0	0	0	0	0	0	0.64	0.59	1	1	0	1200	1200	0
8/16/2024 15:35	11101	EGYP_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/16/2024 15:35	11102	EGYP_T1	3	5	2	2.03	1.7	-0.33	0.56	0.58	0	0	0	0	0	0
8/16/2024 15:35	11104	EGYP_T1	5	6	1	1.26	1.32	0.06	0	0	0	0	0	0	0	0
8/16/2024 15:36	11102	EGYP_T1	3	5	2	2.03	1.7	-0.33	0.58	0.62	0	0	0	0	0	0
8/16/2024 15:36	11101	EGYP_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/16/2024 15:36	11104	EGYP_T1	5	6	1	1.26	1.32	0.06	0	0	0	0	0	0	0	0
8/16/2024 15:38	11102	EGYP_T1	3	5	2	2.03	1.7	-0.33	0.58	0.62	0	0	0	0	0	0
8/16/2024 15:38	11104	EGYP_T1	5	6	1	1.26	1.32	0.06	0	0	0	0	0	0	0	0
8/16/2024 15:38	11101	EGYP_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/16/2024 15:39	61101	BERK_T5	0	2	2	0	0	0	-0.22	-0.84	0	0	0	0	0	0
8/16/2024 15:40	42902	MIDD_T2	4	4	0	1.3	0.83	-0.47	0	0	0	0	0	0	0	0
8/16/2024 15:40	42903	MIDD_T2	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
8/16/2024 15:41	14404	SSLA_T1	314	362	48	0.9	0.9	0	0	0	0	0	0	0	0	0
8/16/2024 15:41	14403	SSLA_T1	3	3	0	0.57	0.37	-0.2	0.52	0.45	1	1	0	600	600	0
8/16/2024 15:41	12202	FOGE_T2	2	2	0	0.9	0.95	0.05	0	0	1	1	0	600	600	0
8/16/2024 15:41	14401	SSLA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/16/2024 15:42	14403	SSLA_T1	3	3	0	0.57	0.37	-0.2	0.52	0.45	1	1	0	600	600	0
8/16/2024 15:42	14401	SSLA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/16/2024 15:42	14404	SSLA_T1	314	362	48	0.9	0.9	0	0	0	0	0	0	0	0	0
8/16/2024 15:52	40902	JESH_T1	0	0	0	0	0	0	-1.18	-1.2	2	2	0	1200	1200	0
8/16/2024 15:52	40901	JESH_T1	3	3	0	1.03	2	0.97	0	0	0	0	0	0	0	0
8/16/2024 15:53	64301	LINC_T1	0	0	0	0	0	0	-0.67	-0.7	1	1	0	600	600	0
8/16/2024 15:53	64305	LINC_T1	1	1	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
8/16/2024 15:58	43304	WATS_T2	1	1	0	0.3	0	-0.3	0.12	0.08	0	0	0	0	0	0
8/16/2024 16:04	61703	ELIZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 16:04	61701	ELIZ_T1	1	1	0	0.6	0.5	-0.1	1.23	1.25	0	0	0	0	0	0
8/16/2024 16:05	61701	ELIZ_T1	1	1	0	0.6	0.5	-0.1	1.23	1.25	0	0	0	0	0	0
8/16/2024 16:05	61703	ELIZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 16:07	45702	LIND_T2	2	2	0	0.6	0.5	-0.1	-1.38	-1.41	0	0	0	0	0	0
8/16/2024 16:08	61701	ELIZ_T1	1	1	0	0.6	0.5	-0.1	1.25	1.37	0	0	0	0	0	0
8/16/2024 16:08	61703	ELIZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 16:10	64101	REFR_T1	3	4	1	0.3	0	-0.3	0.02	0.04	0	0	0	0	0	0
8/16/2024 16:10	12704	MACU_T1	0	0	0	0	0	0	-0.61	-0.57	1	1	0	600	600	0
8/16/2024 16:10	12701	MACU_T1	10	13	3	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
8/16/2024 16:11	64101	REFR_T1	3	4	1	0.3	0	-0.3	0.02	0.04	0	0	0	0	0	0
8/16/2024 16:12	64101	REFR_T1	3	4	1	0.3	0	-0.3	0.02	0.04	0	0	0	0	0	0
8/16/2024 16:15	45501	DERR_T2	5	6	1	0.14	0.1	-0.04	0.94	0.99	2	2	0	1800	1800	0
8/16/2024 16:18	10801	CHHI_T1	69	88	19	0.7	0.72	0.02	-1	-0.96	3	3	0	2100	2100	0
8/16/2024 16:19	63404	HONY_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/16/2024 16:19	10801	CHHI_T1	69	88	19	0.7	0.72	0.02	-1	-0.96	3	3	0	2100	2100	0
8/16/2024 16:19	45501	DERR_T2	5	6	1	0.14	0.1	-0.04	0.94	0.99	2	2	0	1800	1800	0
8/16/2024 16:19	63401	HONY_T1	0	0	0	0	0	0	-0.26	-0.27	1	1	0	600	600	0
8/16/2024 16:28	67103	SPRI_T1	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
8/16/2024 16:29	65802	RTWN_T2	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
8/16/2024 16:37	63304	GREE_T1	0	0	0	0	0	0	-3.49	-3.69	0	0	0	0	0	0
8/16/2024 16:45	45501	DERR_T2	5	0	-5	0.22	0	-0.22	0.81	0.51	2	2	0	1800	1800	0
8/16/2024 16:46	43304	WATS_T2	2	4	2	0.75	0.2	-0.55	0.1	0.11	0	0	0	0	0	0
8/16/2024 16:47	45501	DERR_T2	5	0	-5	0.22	0	-0.22	0.81	0.51	2	2	0	1800	1800	0
8/16/2024 16:49	45501	DERR_T2	5	0	-5	0.22	0	-0.22	0.81	0.51	2	2	0	1800	1800	0
8/16/2024 16:50	11001	EGRE_T1	0	0	0	0	0	0	0.42	0.37	1	1	0	1200	1200	0
8/16/2024 16:52	43202	MVIL_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
8/16/2024 16:52	43201	MVIL_T2	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
8/16/2024 17:00	46203	DANV_T2	4	0	-4	0.38	0	-0.38	-1.19	-1.26	0	0	0	0	0	0
8/16/2024 17:00	46206	DANV_T2	2	2	0	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
8/16/2024 17:00	11001	EGRE_T1	0	0	0	0	0	0	0.37	0.33	1	1	0	1200	1200	0
8/16/2024 17:09	46203	DANV_T2	4	0	-4	0.38	0	-0.38	-1.26	-1.24	0	0	0	0	0	0
8/16/2024 17:09	46206	DANV_T2	2	2	0	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
8/16/2024 17:10	13904	SEID_T1	13	35	22	0.71	0.33	-0.38	0.69	0.69	0	0	0	0	0	0
8/16/2024 17:10	13903	SEID_T1	35	38	3	0.88	0.87	-0.01	0	0	0	0	0	0	0	0
8/16/2024 17:10	13902	SEID_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/16/2024 17:10	13905	SEID_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
8/16/2024 17:12	13902	SEID_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/16/2024 17:12	13904	SEID_T1	13	35	22	0.71	0.33	-0.38	0.69	0.69	0	0	0	0	0	0
8/16/2024 17:12	13905	SEID_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
8/16/2024 17:12	13903	SEID_T1	35	38	3	0.88	0.87	-0.01	0	0	0	0	0	0	0	0
8/16/2024 17:15	13903	SEID_T1	27	37	10	0.93	0.86	-0.07	0	0	0	0	0	0	0	0
8/16/2024 17:15	13904	SEID_T1	24	38	14	0.31	0.54	0.23	0.69	0.69	0	0	0	0	0	0
8/16/2024 17:20	64302	LINC_T2	7	6	-1	0.51	0.45	-0.06	0.91	0.94	0	0	0	0	0	0
8/16/2024 17:21	42903	MIDD_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/16/2024 17:21	42902	MIDD_T2	6	25	19	0.85	0.72	-0.13	-0.14	-0.1	0	0	0	0	0	0
8/16/2024 17:22	46602	LACR_T1	21	14	-7	0.21	0.24	0.03	-0.6	-0.63	0	0	0	0	0	0
8/16/2024 17:24	42902	MIDD_T2	6	25	19	0.85	0.72	-0.13	-0.14	-0.1	0	0	0	0	0	0
8/16/2024 17:24	42903	MIDD_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/16/2024 17:25	15603	NSTR_T2	0	1	1	0	0	0	-0.02	-0.04	0	0	0	0	0	0
8/16/2024 17:26	42903	MIDD_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/16/2024 17:26	42902	MIDD_T2	6	25	19	0.85	0.72	-0.13	-0.14	-0.1	0	0	0	0	0	0
8/16/2024 17:34	16002	DORN_T2	2	6	4	0.75	0.5	-0.25	0.17	0.12	1	1	0	1200	1200	0
8/16/2024 17:34	16006	DORN_T2	12	11	-1	0.69	1.16	0.47	0	0	0	0	0	0	0	0
8/16/2024 17:43	46002	BERW_T2	0	0	0	0	0	0	-0.48	-0.51	1	1	0	900	900	0
8/16/2024 17:43	46004	BERW_T2	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/16/2024 17:44	66504	SMAN_T2	4	9	5	0.7	0.95	0.25	0	0	0	0	0	0	0	0
8/16/2024 17:44	46004	BERW_T2	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/16/2024 17:44	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 17:44	46002	BERW_T2	0	0	0	0	0	0	-0.48	-0.51	1	1	0	900	900	0
8/16/2024 17:45	46004	BERW_T2	1	2	1	0.2	0	-0.2	0.23	0.2	0	0	0	0	0	0
8/16/2024 17:48	46002	BERW_T2	0	0	0	0	0	0	-0.48	-0.51	1	1	0	900	900	0
8/16/2024 17:48	46004	BERW_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/16/2024 17:50	63804	HEMP_T1	1	1	0	6	5.9	-0.1	-0.99	-1.15	0	0	0	0	0	0
8/16/2024 18:01	16302	ALPA_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
8/16/2024 18:10	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 18:10	61402	SLIT_T1	0	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0
8/16/2024 18:11	44203	POIN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 18:11	44202	POIN_T2	1	2	1	0.7	0.5	-0.2	-0.14	-0.19	1	1	0	1200	1200	0
8/16/2024 18:14	67201	TEHI_T1	11	10	-1	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
8/16/2024 18:14	67203	TEHI_T1	0	0	0	0	0	0	1.92	1.84	2	2	0	1500	1500	0
8/16/2024 18:15	66505	SMAN_T2	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/16/2024 18:15	66504	SMAN_T2	7	2	-5	0.59	0.5	-0.09	0	0	0	0	0	0	0	0
8/16/2024 18:17	11205	ELHE_T1	1	3	2	6.6	7.9	1.3	-1.18	-1.18	1	1	0	1200	1200	0
8/16/2024 18:27	13202	PALM_T2	0	0	0	0	0	0	-1.57	-1.59	4	4	0	3600	3600	0
8/16/2024 18:28	13202	PALM_T2	0	0	0	0	0	0	-1.57	-1.59	4	4	0	3600	3600	0
8/16/2024 18:30	66505	SMAN_T2	2	1	-1	0.3	0	-0.3	0.13	0.07	4	4	0	2300	2300	0
8/16/2024 18:30	66504	SMAN_T2	2	1	-1	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/16/2024 18:30	49804	UNIV_T1	0	0	0	0	0	0	1.25	1.25	0	0	0	0	0	0
8/16/2024 18:30	49803	UNIV_T1	1	1	0	5.9	5.6	-0.3	0	0	0	0	0	0	0	0
8/16/2024 18:34	64702	LITI_T2	0	0	0	0	0	0	0.43	0.23	0	0	0	0	0	0
8/16/2024 18:35	64702	LITI_T2	0	0	0	0	0	0	0.43	0.23	0	0	0	0	0	0
8/16/2024 18:36	11104	EGYP_T1	5	8	3	1.1	0.66	-0.44	0	0	0	0	0	0	0	0
8/16/2024 18:36	11102	EGYP_T1	3	3	0	1.47	0.93	-0.54	0	0	0	0	0	0	0	0
8/16/2024 18:36	11101	EGYP_T1	0	0	0	0	0	0	0.37	-0.22	1	1	0	1200	1200	0
8/16/2024 18:45	12601	MACA_T1	0	0	0	0	0	0	1.54	1.52	0	0	0	0	0	0
8/16/2024 18:45	12603	MACA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/16/2024 18:45	12606	MACA_T1	28	26	-2	1.67	1.61	-0.06	0	0	0	0	0	0	0	0
8/16/2024 18:50	17801	GILB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 18:59	14603	SWHI_T1	2	0	-2	0.5	0	-0.5	-0.91	-0.94	2	2	0	1200	1200	0
8/16/2024 18:59	14605	SWHI_T1	2	0	-2	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/16/2024 19:17	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 19:17	62105	ELAN_T1	13	0	-13	0.17	0	-0.17	0	0	0	0	0	0	0	0
8/16/2024 19:17	62101	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/16/2024 19:18	67001	STHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/16/2024 19:18	67002	STHI_T2	0	0	0	0	0	0	1.52	1.49	0	0	0	0	0	0
8/16/2024 19:26	16006	DORN_T2	0	0	0	0	0	0	-0.88	-0.94	1	1	0	1200	1200	0
8/16/2024 20:35	11104	EGYP_T1	6	5	-1	0.95	0.46	-0.49	0.71	0.68	0	0	0	0	0	0
8/16/2024 20:35	11102	EGYP_T1	3	1	-2	0.73	0	-0.73	0	0	0	0	0	0	0	0
8/16/2024 20:38	11104	EGYP_T1	6	5	-1	0.95	0.46	-0.49	0.68	0.62	0	0	0	0	0	0
8/16/2024 20:38	11102	EGYP_T1	3	1	-2	0.73	0	-0.73	0	0	0	0	0	0	0	0
8/16/2024 20:44	46301	ROHR_T1	1	1	0	6.8	6.6	-0.2	0.38	0.35	0	0	0	0	0	0
8/16/2024 20:44	46302	ROHR_T1	5	6	1	1.08	1.43	0.35	0	0	0	0	0	0	0	0
8/16/2024 20:55	47001	HUGH_T2	3	3	0	8.37	8.7	0.33	-0.32	-0.4	0	0	0	0	0	0
8/16/2024 20:58	46302	ROHR_T1	6	5	-1	0.92	1.28	0.36	0.27	0.28	0	0	0	0	0	0
8/16/2024 20:58	46301	ROHR_T1	1	5	4	6.6	1.46	-5.14	0	0	0	0	0	0	0	0
8/16/2024 21:06	46301	ROHR_T1	1	6	5	6.6	1.25	-5.35	0	0	0	0	0	0	0	0
8/16/2024 21:06	46302	ROHR_T1	4	5	1	1.23	1.08	-0.15	0.28	0.25	0	0	0	0	0	0
8/16/2024 21:41	61701	ELIZ_T1	1	1	0	2.8	3.2	0.4	0.97	0.92	0	0	0	0	0	0
8/16/2024 21:44	13904	SEID_T1	13	0	-13	0.78	0	-0.78	0.65	0.65	0	0	0	0	0	0
8/16/2024 21:45	10801	CHHI_T1	0	0	0	0	0	0	-0.82	-0.88	2	2	0	1500	1500	0
8/16/2024 21:47	13905	SEID_T1	0	0	0	0	0	0	-0.6	-0.62	1	1	0	1200	1200	0
8/16/2024 21:47	15703	TANN_T2	1	1	0	5.7	5.3	-0.4	0	0	0	0	0	0	0	0
8/16/2024 21:47	16101	BING_T2	0	0	0	0	0	0	0.86	0.82	0	0	0	0	0	0
8/16/2024 21:47	16102	BING_T2	8	10	2	0.2	0.2	0	0	0	0	0	0	0	0	0
8/16/2024 21:47	15702	TANN_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
8/16/2024 21:47	13202	PALM_T2	0	0	0	0	0	0	-1.87	-1.93	4	4	0	3600	3600	0
8/16/2024 21:48	43301	WATS_T2	1	1	0	0.2	0.3	0.1	-0.29	-0.27	1	1	0	900	900	0
8/16/2024 21:48	17802	GILB_T1	0	4	4	0	0.2	0.2	0.38	0.34	0	0	0	0	0	0
8/16/2024 21:48	43302	WATS_T2	4	4	0	0.23	0.65	0.42	0	0	0	0	0	0	0	0
8/16/2024 21:48	16006	DORN_T2	0	0	0	0	0	0	0.09	0.03	0	0	0	0	0	0
8/16/2024 21:49	61701	ELIZ_T1	1	1	0	3.1	3.2	0.1	0.97	0.92	0	0	0	0	0	0
8/16/2024 21:49	11102	EGYP_T1	0	0	0	0	0	0	0.08	0.02	0	0	0	0	0	0
8/16/2024 21:49	14203	EALL_T1	0	0	0	0	0	0	0.06	0.08	1	1	0	1200	1200	0
8/16/2024 21:49	16102	BING_T2	8	10	2	0.2	0.2	0	-0.57	-0.56	1	1	0	1200	1200	0
8/16/2024 21:49	17805	GILB_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
8/16/2024 21:49	13503	MCMI_T2	56	1	-55	0.23	0.3	0.07	-0.73	0.18	0	0	0	0	0	0
8/16/2024 21:49	10805	CHHI_T2	1	1	0	7.7	7.5	-0.2	-0.64	-0.67	1	1	0	600	600	0
8/16/2024 21:50	17802	GILB_T1	0	4	4	0	0.2	0.2	0.38	0.34	0	0	0	0	0	0
8/16/2024 21:50	63602	LETO_T1	0	18	18	0	0.11	0.11	-0.46	-0.47	1	1	0	600	600	0
8/16/2024 21:50	11101	EGYP_T1	0	0	0	0	0	0	-0.02	0.07	1	1	0	1200	1200	0
8/16/2024 21:50	23102	MOSC_T2	0	0	0	0	0	0	-0.59	-0.57	2	2	0	1800	1800	0
8/16/2024 21:50	63601	LETO_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
8/16/2024 21:50	16402	MOPO_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
8/16/2024 21:50	17805	GILB_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
8/16/2024 21:50	10805	CHHI_T2	1	1	0	7.7	7.5	-0.2	-0.64	-0.67	1	1	0	600	600	0
8/16/2024 21:51	13702	SCHN_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
8/16/2024 21:51	12704	MACU_T1	0	1	1	0	0	0	-0.54	-0.43	0	0	0	0	0	0
8/16/2024 21:51	14201	EALL_T1	0	0	0	0	0	0	0.44	0.39	0	0	0	0	0	0
8/16/2024 21:51	61701	ELIZ_T1	1	0	-1	3.1	3.2	0.1	0	0	0	0	0	0	0	0
8/16/2024 21:51	16302	ALPA_T2	0	0	0	0	0	0	-0.19	-0.29	0	0	0	0	0	0
8/16/2024 21:51	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/16/2024 21:51	61703	ELIZ_T1	0	0	0	0	0	0	-2.36	-2.62	2	2	0	2100	2100	0
8/16/2024 21:51	11102	EGYP_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
8/16/2024 21:52	13202	PALM_T2	0	0	0	0	0	0	-1.93	-1.96	4	4	0	3600	3600	0
8/16/2024 21:52	67503	WEWI_T2	1	1	0	6.5	7.1	0.6	0.44	0.39	0	0	0	0	0	0
8/16/2024 21:52	16103	BING_T2	0	0	0	0	0	0	-1.55	-0.98	2	1	-1	1500	900	-600
8/16/2024 21:52	11205	ELHE_T1	24	0	-24	0.1	0	-0.1	-0.26	-0.33	1	1	0	1200	1200	0
8/16/2024 21:52	16302	ALPA_T2	0	0	0	0	0	0	-0.38	-0.59	0	0	0	0	0	0
8/16/2024 21:52	16102	BING_T2	8	10	2	0.2	0.2	0	0	0	0	0	0	0	0	0
8/16/2024 21:53	13904	SEID_T1	0	0	0	0	0	0	0.65	0.68	0	0	0	0	0	0
8/16/2024 21:53	15603	NSTR_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
8/16/2024 21:53	44203	POIN_T2	0	0	0	0	0	0	-0.31	-0.27	2	2	0	2100	2100	0
8/16/2024 21:53	64101	REFR_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
8/16/2024 21:53	41702	LOGA_T2	39	0	-39	0.16	0	-0.16	0	0	0	0	0	0	0	0
8/16/2024 21:53	15601	NSTR_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/16/2024 21:53	44202	POIN_T2	1	1	0	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
8/16/2024 21:53	14203	EALL_T1	0	0	0	0	0	0	0.17	0.08	2	2	0	2400	2400	0
8/16/2024 21:53	11507	FREE_T2	19	12	-7	0.76	0.54	-0.22	1.3	1.15	1	1	0	600	600	0
8/16/2024 21:54	43102	SMIL_T2	2	5	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
8/16/2024 21:54	10805	CHHI_T2	1	1	0	7.7	7.5	-0.2	-0.67	-0.66	1	1	0	600	600	0
8/16/2024 21:54	64902	MILL_T2	0	0	0	0	0	0	-0.14	-0.2	1	1	0	900	900	0
8/16/2024 21:54	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/16/2024 21:54	46203	DANV_T2	0	0	0	0	0	0	-0.24	-0.28	0	0	0	0	0	0
8/16/2024 21:54	13904	SEID_T1	0	0	0	0	0	0	0.65	0.68	0	0	0	0	0	0
8/16/2024 21:54	43101	SMIL_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/16/2024 21:54	64702	LITI_T2	0	0	0	0	0	0	-0.14	-0.33	0	0	0	0	0	0
8/16/2024 21:54	64903	MILL_T2	10	21	11	0.13	0.18	0.05	0	0	0	0	0	0	0	0
8/16/2024 21:54	46206	DANV_T2	2	2	0	0.25	0.6	0.35	0	0	0	0	0	0	0	0
8/16/2024 21:54	43108	SMIL_T2	0	0	0	0	0	0	-1.02	-1.05	1	1	0	1200	1200	0
8/16/2024 21:54	66504	SMAN_T2	0	0	0	0	0	0	-1.84	-1.9	2	2	0	2400	2400	0
8/16/2024 21:55	12006	HATF_T1	0	0	0	0	0	0	0.2	0.04	1	1	0	1200	1200	0
8/16/2024 21:55	64903	MILL_T2	10	21	11	0.13	0.18	0.05	0	0	0	0	0	0	0	0
8/16/2024 21:55	46903	MNTG_T2	0	0	0	0	0	0	0.16	0.08	1	1	0	600	600	0
8/16/2024 21:55	17805	GILB_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
8/16/2024 21:55	46206	DANV_T2	2	2	0	0.25	0.6	0.35	0	0	0	0	0	0	0	0
8/16/2024 21:55	15703	TANN_T2	1	1	0	5.7	5.3	-0.4	0	0	0	0	0	0	0	0
8/16/2024 21:55	10801	CHHI_T1	0	0	0	0	0	0	-0.88	-0.9	2	2	0	1500	1500	0
8/16/2024 21:55	46203	DANV_T2	0	0	0	0	0	0	-0.24	-0.28	0	0	0	0	0	0
8/16/2024 21:55	14802	TREI_T2	0	0	0	0	0	0	0.78	0.75	0	0	0	0	0	0
8/16/2024 21:55	64902	MILL_T2	0	0	0	0	0	0	-0.14	-0.2	1	1	0	900	900	0
8/16/2024 21:55	14404	SSLA_T1	13	12	-1	1.18	1.36	0.18	0	0	0	0	0	0	0	0
8/16/2024 21:55	12601	MACA_T1	1	0	-1	0.4	0	-0.4	1.26	1.21	0	0	0	0	0	0
8/16/2024 21:55	46602	LACR_T1	1	1	0	0.1	0	-0.1	-0.84	-0.86	0	0	0	0	0	0
8/16/2024 21:55	14801	TREI_T2	3	5	2	0.13	0.38	0.25	0.14	0.06	0	0	0	0	0	0
8/16/2024 21:55	64202	KINZ_T1	3	3	0	0.2	0.43	0.23	0	0	0	0	0	0	0	0
8/16/2024 21:55	46002	BERW_T2	0	0	0	0	0	0	-0.73	-0.72	1	1	0	900	900	0
8/16/2024 21:55	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/16/2024 21:55	64204	KINZ_T1	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
8/16/2024 21:55	14403	SSLA_T1	0	0	0	0	0	0	0.07	0	0	0	0	0	0	0
8/16/2024 21:55	15702	TANN_T2	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
8/16/2024 21:55	12606	MACA_T1	10	7	-3	0.84	0	-0.84	0	0	0	0	0	0	0	0
8/16/2024 21:55	16402	MOPO_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
8/16/2024 21:55	61703	ELIZ_T1	0	0	0	0	0	0	-2.36	-2.62	2	2	0	2100	2100	0
8/16/2024 21:55	63501	HEID_TBK1-2	54	55	1	1.8	1.75	-0.05	0.06	0.15	2	2	0	1800	1800	0
8/16/2024 21:55	13702	SCHN_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
8/16/2024 21:55	64201	KINZ_T1	1	1	0	0.2	0.9	0.7	-0.51	-0.57	3	3	0	1500	1500	0
8/16/2024 21:55	44201	POIN_T1	0	0	0	0	0	0	-1.28	-1.28	2	2	0	2100	2100	0
8/16/2024 21:55	13503	MCMI_T2	56	1	-55	0.23	0.3	0.07	0.18	0.18	0	0	0	0	0	0
8/16/2024 21:55	61701	ELIZ_T1	1	1	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
8/16/2024 21:56	61701	ELIZ_T1	1	1	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
8/16/2024 21:56	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 21:56	63403	HONY_T2	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
8/16/2024 21:56	65604	QVIL_T2	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
8/16/2024 21:56	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	-0.59	-0.71	1	1	0	600	600	0
8/16/2024 21:56	65207	PRIN_T4	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/16/2024 21:56	12701	MACU_T1	0	0	0	0	0	0	-0.95	-0.93	1	1	0	1200	1200	0
8/16/2024 21:56	47401	PENS_T1	0	0	0	0	0	0	0.19	0.23	0	0	0	0	0	0
8/16/2024 21:56	60502	NMAN_T2	0	1	1	0	0	0	0.09	-0.01	0	0	0	0	0	0
8/16/2024 21:56	42802	SELI_T1	0	0	0	0	0	0	-1.02	-1.04	1	1	0	900	900	0
8/16/2024 21:56	16002	DORN_T2	0	0	0	0	0	0	-0.11	-0.15	1	1	0	1200	1200	0
8/16/2024 21:56	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/16/2024 21:56	67503	WEWI_T2	1	1	0	6.5	7.1	0.6	0.44	0.39	0	0	0	0	0	0
8/16/2024 21:56	61102	BERK_T5	1	0	-1	0.1	0	-0.1	0	-0.07	1	1	0	300	300	0
8/16/2024 21:56	64101	REFR_T1	0	0	0	0	0	0	0.76	0.75	0	0	0	0	0	0
8/16/2024 21:56	44801	EDAN_T2	12	8	-4	0.2	0.23	0.03	0	0	0	0	0	0	0	0
8/16/2024 21:56	44802	EDAN_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
8/16/2024 21:56	26401	INOR_T1	1	1	0	8.4	8.7	0.3	0	0	0	0	0	0	0	0
8/16/2024 21:56	63804	HEMP_T1	1	1	0	5.4	5.6	0.2	-1.18	0.08	0	0	0	0	0	0
8/16/2024 21:56	44202	POIN_T2	1	1	0	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
8/16/2024 21:56	61703	ELIZ_T1	0	0	0	0	0	0	-2.36	-2.62	2	2	0	2100	2100	0
8/16/2024 21:56	26402	INOR_T1	0	0	0	0	0	0	-1.02	-1.05	0	0	0	0	0	0
8/16/2024 21:56	44203	POIN_T2	0	0	0	0	0	0	-0.31	-0.27	2	2	0	2100	2100	0
8/16/2024 21:56	12704	MACU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 21:57	67605	WARW_T1	3	3	0	0.37	0.23	-0.14	-1.12	-1.13	0	0	0	0	0	0
8/16/2024 21:57	64204	KINZ_T1	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
8/16/2024 21:57	63305	GREE_T1	14	15	1	0.34	0.41	0.07	0	0	0	0	0	0	0	0
8/16/2024 21:57	42902	MIDD_T2	0	0	0	0	0	0	-0.87	-0.97	1	1	0	600	600	0
8/16/2024 21:57	64101	REFR_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
8/16/2024 21:57	46002	BERW_T2	0	0	0	0	0	0	-0.73	-0.72	1	1	0	900	900	0
8/16/2024 21:57	44201	POIN_T1	0	0	0	0	0	0	-1.28	-1.28	2	2	0	2100	2100	0
8/16/2024 21:57	63304	GREE_T1	0	0	0	0	0	0	-1.21	-1.13	0	0	0	0	0	0
8/16/2024 21:57	63301	GREE_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/16/2024 21:57	42802	SELI_T1	0	0	0	0	0	0	-1.02	-1.04	1	1	0	900	900	0
8/16/2024 21:57	64201	KINZ_T1	1	1	0	0.2	0.9	0.7	-0.51	-0.57	3	3	0	1500	1500	0
8/16/2024 21:57	63601	LETO_T1	1	2	1	0.1	0.15	0.05	0.92	2	1	0	-1	1200	0	-1200
8/16/2024 21:57	63602	LETO_T1	0	18	18	0	0.11	0.11	-0.95	-1.02	2	2	0	1200	1200	0
8/16/2024 21:57	60502	NMAN_T2	0	1	1	0	0	0	0.09	-0.01	0	0	0	0	0	0
8/16/2024 21:57	64202	KINZ_T1	3	3	0	0.2	0.43	0.23	0	0	0	0	0	0	0	0
8/16/2024 21:57	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/16/2024 21:58	44703	MUNC_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/16/2024 21:58	44702	MUNC_T2	11	62	51	0.24	0.29	0.05	0	0	0	0	0	0	0	0
8/16/2024 21:58	11804	FRAN_T1	0	0	0	0	0	0	1.1	1.05	0	0	0	0	0	0
8/16/2024 21:58	44701	MUNC_T2	1	5	4	0.1	0.22	0.12	0	0	0	0	0	0	0	0
8/16/2024 21:58	64101	REFR_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
8/16/2024 21:58	67001	STHI_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
8/16/2024 21:58	63305	GREE_T1	14	15	1	0.34	0.41	0.07	-1.84	-0.91	1	0	-1	900	0	-900
8/16/2024 21:58	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 21:58	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	-0.59	-0.71	1	1	0	600	600	0
8/16/2024 21:58	66504	SMAN_T2	0	0	0	0	0	0	-0.92	-0.95	1	1	0	1200	1200	0
8/16/2024 21:58	25501	MADI_T1	3	3	0	0.77	1.37	0.6	0	0	0	0	0	0	0	0
8/16/2024 21:58	67002	STHI_T2	0	0	0	0	0	0	1.34	1.25	0	0	0	0	0	0
8/16/2024 21:58	63401	HONY_T1	0	0	0	0	0	0	-0.03	-0.07	1	1	0	600	600	0
8/16/2024 21:58	11102	EGYP_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
8/16/2024 21:58	60101	COCA_T1	0	0	0	0	0	0	0.62	0.64	1	1	0	600	600	0
8/16/2024 21:58	66703	STRA_T1	0	4	4	0	0.23	0.23	-0.53	-0.59	0	0	0	0	0	0
8/16/2024 21:58	25503	MADI_T1	0	9	9	0	0.17	0.17	-0.76	-0.71	0	0	0	0	0	0
8/16/2024 21:58	63301	GREE_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/16/2024 21:58	45702	LIND_T2	0	1	1	0	0.1	0.1	-0.2	-0.24	0	0	0	0	0	0
8/16/2024 21:59	61102	BERK_T5	1	0	-1	0.1	0	-0.1	0	-0.14	2	2	0	600	600	0
8/16/2024 21:59	45702	LIND_T2	0	1	1	0	0.1	0.1	-0.2	-0.24	0	0	0	0	0	0
8/16/2024 21:59	44802	EDAN_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
8/16/2024 21:59	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 21:59	44801	EDAN_T2	12	8	-4	0.2	0.23	0.03	0	0	0	0	0	0	0	0
8/16/2024 21:59	61303	EARL_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
8/16/2024 21:59	11001	EGRE_T1	0	0	0	0	0	0	-0.13	-0.21	1	1	0	1200	1200	0
8/16/2024 21:59	66703	STRA_T1	0	4	4	0	0.23	0.23	-1.06	-1.19	0	0	0	0	0	0
8/16/2024 21:59	67605	WARW_T1	3	3	0	0.37	0.23	-0.14	0	0	0	0	0	0	0	0
8/16/2024 21:59	67503	WEWI_T2	1	1	0	6.5	7.1	0.6	0.44	0.39	0	0	0	0	0	0
8/16/2024 21:59	67201	TEHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/16/2024 21:59	67203	TEHI_T1	0	0	0	0	0	0	2.09	1.83	1	1	0	900	900	0
8/16/2024 21:59	61301	EARL_T1	0	0	0	0	0	0	-0.32	-0.36	1	1	0	900	900	0
8/16/2024 21:59	64602	LEOL_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
8/16/2024 21:59	10805	OHHI_T2	1	1	0	7.7	7.5	-0.2	-0.67	-0.66	1	1	0	600	600	0
8/16/2024 21:59	42902	MIDD_T2	0	0	0	0	0	0	-0.87	-0.97	1	1	0	600	600	0
8/16/2024 21:59	67603	WARW_T1	0	0	0	0	0	0	0.22	0.18	0	0	0	0	0	0
8/16/2024 21:59	65001	NEFF_T2	0	0	0	0	0	0	-0.75	-0.77	1	1	0	1200	1200	0
8/16/2024 21:59	44703	MUNC_T2	0	2	2	0	0.2	0.2	0.95	0.93	0	0	0	0	0	0
8/16/2024 21:59	44701	MUNC_T2	1	5	4	0.1	0.22	0.12	0	0	0	0	0	0	0	0
8/16/2024 21:59	44702	MUNC_T2	11	62	51	0.24	0.29	0.05	0	0	0	0	0	0	0	0
8/16/2024 21:59	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	-0.59	-0.71	1	1	0	600	600	0
8/16/2024 22:00	43302	WATS_T2	4	4	0	0.65	0.65	0	0	0	0	0	0	0	0	0
8/16/2024 22:00	40902	JESH_T1	0	0	0	0	0	0	-0.52	-0.56	0	0	0	0	0	0
8/16/2024 22:00	65202	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 22:00	43301	WATS_T2	1	0	-1	0.3	0	-0.3	-0.27	0.61	1	0	-1	900	0	-900
8/16/2024 22:00	41002	LAUR_T2	29	25	-4	0.27	0.22	-0.05	0.28	0.25	0	0	0	0	0	0
8/16/2024 22:00	63401	HONY_T1	0	0	0	0	0	0	-0.03	-0.07	1	1	0	600	600	0
8/16/2024 22:00	66505	SMAN_T2	0	0	0	0	0	0	-0.01	-0.02	3	3	0	2100	2100	0
8/16/2024 22:00	67605	WARW_T1	3	0	-3	0.23	0	-0.23	-2.24	-2.26	0	0	0	0	0	0
8/16/2024 22:00	46206	DANV_T2	2	1	-1	0.35	0.9	0.55	0.93	0.88	4	4	0	4200	4200	0
8/16/2024 22:00	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/16/2024 22:00	47401	PENS_T1	0	0	0	0	0	0	0.39	0.46	0	0	0	0	0	0
8/16/2024 22:00	43304	WATS_T2	0	0	0	0	0	0	-0.42	-0.33	0	0	0	0	0	0
8/16/2024 22:00	61703	ELIZ_T1	0	0	0	0	0	0	-2.36	-2.62	2	2	0	2100	2100	0
8/16/2024 22:00	61701	ELIZ_T1	1	1	0	3.2	2.7	-0.5	0	0	0	0	0	0	0	0
8/16/2024 22:00	40901	JESH_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
8/16/2024 22:00	44802	EDAN_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
8/16/2024 22:00	42802	SELI_T1	0	0	0	0	0	0	-3.07	-3.12	3	3	0	2700	2700	0
8/16/2024 22:00	17804	GILB_T2	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
8/16/2024 22:00	45501	DERR_T2	0	0	0	0	0	0	-0.29	-0.34	2	2	0	1800	1800	0
8/16/2024 22:00	42902	MIDD_T2	0	0	0	0	0	0	-0.87	-0.97	1	1	0	600	600	0
8/16/2024 22:00	44801	EDAN_T2	7	3	-4	0.24	0.43	0.19	0	0	0	0	0	0	0	0
8/16/2024 22:00	41001	LAUR_T2	58	57	-1	0.36	0.24	-0.12	0	0	0	0	0	0	0	0
8/16/2024 22:00	17805	GILB_T2	0	0	0	0	0	0	0.35	0.31	0	0	0	0	0	0
8/16/2024 22:00	65205	PRIN_T1	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
8/16/2024 22:00	13503	MCMI_T2	1	0	-1	0.3	0	-0.3	0.18	0.18	0	0	0	0	0	0
8/16/2024 22:00	60502	NMAN_T2	0	0	0	0	0	0	0.09	-0.01	0	0	0	0	0	0
8/16/2024 22:00	46002	BERW_T2	0	0	0	0	0	0	-1.46	-1.44	2	2	0	1800	1800	0
8/16/2024 22:01	64101	REFR_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
8/16/2024 22:01	63203	MGTN_T1	0	0	0	0	0	0	-0.07	-0.07	1	1	0	600	600	0
8/16/2024 22:01	63305	GREE_T1	15	5	-10	0.41	0.2	-0.21	-1.84	-0.91	1	0	-1	900	0	-900
8/16/2024 22:01	63602	LETO_T1	18	0	-18	0.11	0	-0.11	-0.47	-0.51	1	1	0	600	600	0
8/16/2024 22:01	42801	SELI_T1	0	0	0	0	0	0	-1.75	-1.84	1	1	0	1200	1200	0
8/16/2024 22:01	43302	WATS_T2	4	4	0	0.65	0.65	0	0	0	0	0	0	0	0	0
8/16/2024 22:01	67605	WARW_T1	3	0	-3	0.23	0	-0.23	-1.12	-1.13	0	0	0	0	0	0
8/16/2024 22:01	63301	GREE_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/16/2024 22:01	61102	BERK_T5	0	0	0	0	0	0	0	-0.07	1	1	0	300	300	0
8/16/2024 22:01	64201	KINZ_T1	1	1	0	0.7	1.3	0.6	-0.51	-0.57	3	3	0	1500	1500	0
8/16/2024 22:01	65604	QVIL_T2	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
8/16/2024 22:01	44801	EDAN_T2	7	3	-4	0.24	0.43	0.19	0	0	0	0	0	0	0	0
8/16/2024 22:01	43301	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/16/2024 22:01	64204	KINZ_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
8/16/2024 22:01	43304	WATS_T2	0	0	0	0	0	0	-0.42	-0.33	0	0	0	0	0	0
8/16/2024 22:01	11102	EGYP_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
8/16/2024 22:01	60101	COCA_T1	0	0	0	0	0	0	0.62	0.64	1	1	0	600	600	0
8/16/2024 22:01	64202	KINZ_T1	3	4	1	0.43	0.48	0.05	0	0	0	0	0	0	0	0
8/16/2024 22:01	64301	LINC_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
8/16/2024 22:01	12302	LANA_T2	0	0	0	0	0	0	-2.32	-2.33	3	3	0	2700	2700	0
8/16/2024 22:01	12701	MACU_T1	0	0	0	0	0	0	-0.95	-0.93	1	1	0	1200	1200	0
8/16/2024 22:01	67203	TEHI_T1	0	0	0	0	0	0	2.09	1.83	1	1	0	900	900	0
8/16/2024 22:01	45501	DERR_T2	0	0	0	0	0	0	-0.29	-0.34	2	2	0	1800	1800	0
8/16/2024 22:01	63601	LETO_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/16/2024 22:01	13702	SCHN_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
8/16/2024 22:01	44802	EDAN_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
8/16/2024 22:01	67103	SPRI_T1	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
8/16/2024 22:01	63501	HEID_T8K1-2	54	55	1	1.77	2	0.23	0.06	0.15	2	2	0	1800	1800	0
8/16/2024 22:01	64305	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 22:01	66505	SMAN_T2	0	0	0	0	0	0	-0.01	-0.02	3	3	0	2100	2100	0
8/16/2024 22:02	16302	ALPA_T2	0	0	0	0	0	0	-0.19	-0.29	0	0	0	0	0	0
8/16/2024 22:02	10801	OHHI_T1	0	0	0	0	0	0	-0.88	-0.9	2	2	0	1500	1500	0
8/16/2024 22:02	64101	REFR_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
8/16/2024 22:02	14403	SSLA_T1	0	0	0	0	0	0	0.07	0	0	0	0	0	0	0
8/16/2024 22:02	14404	SSLA_T1	12	7	-5	1.28	1.82	0.54	0	0	0	0	0	0	0	0
8/16/2024 22:02	47002	HUGH_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
8/16/2024 22:02	47001	HUGH_T2	3	3	0	7.47	7.6	0.13	-0.48	-0.46	0	0	0	0	0	0
8/16/2024 22:02	47502	NECO_T1	1	1	0	1.1	0.4	-0.7	0.77	0.78	0	0	0	0	0	0
8/16/2024 22:02	66703	STRA_T1	0	5	5	0	0.22	0.22	-0.53	-0.59	0	0	0	0	0	0
8/16/2024 22:02	61102	BERK_T5	0	0	0	0	0	0	0	-0.14	2	2	0	600	600	0
8/16/2024 22:02	44202	POIN_T2	1	1	0	1.5	0.9	-0.6	-0.7	-0.71	1	1	0	1200	1200	0
8/16/2024 22:03	46206	DANV_T2	2	1	-1	0.35	0.9	0.55	0	0	0	0	0	0	0	0
8/16/2024 22:03	45501	DERR_T2	0	0	0	0	0	0	-0.29	-0.34	2	2	0	1800	1800	0
8/16/2024 22:03	23401	HONE_T2	0	0	0	0	0	0	-0.09	-0.01	0	0	0	0	0	0
8/16/2024 22:03	46203	DANV_T2	0	0	0	0	0	0	-0.24	-0.28	0	0	0	0	0	0
8/16/2024 22:03	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 22:03	64101	REFR_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
8/16/2024 22:03	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/16/2024 22:03	45502	DERR_T2	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
8/16/2024 22:03	14201	EALL_T1	0	0	0	0	0	0	0.44	0.39	0	0	0	0	0	0
8/16/2024 22:03	61102	BERK_T5	0	0	0	0	0	0	0	-0.07	1	1	0	300	300	0
8/16/2024 22:03	60201	ATGL_T2	0	0	0	0	0	0	0.22	0.07	1	1	0	300	300	0
8/16/2024 22:04	63501	HEID_T8K1-2	54	55	1	1.77	2	0.23	0.03	0.08	1	1	0	900	900	0
8/16/2024 22:04	64101	REFR_T1	0	0	0	0	0	0	0.76	0.75	0	0	0	0	0	0
8/16/2024 22:04	64801	MONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/16/2024 22:04	46206	DANV_T2	2	1	-1	0.35	0.9	0.55	0	0	0	0	0	0	0	0
8/16/2024 22:04	47502	NECO_T1	1	1	0	1.1	0.4	-0.7	0.77	0.78	0	0	0	0	0	0
8/16/2024 22:04	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 22:04	44802	EDAN_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
8/16/2024 22:04	42902	MIDD_T2	0	0	0	0	0	0	-1.73	-1.94	2	2	0	1200	1200	0
8/16/2024 22:04	64302	LINC_T2	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
8/16/2024 22:04	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 22:04	44801	EDAN_T2	7	3	-4	0.24	0.43	0.19	0	0	0	0	0	0	0	0
8/16/2024 22:04	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 22:04	46203	DANV_T2	0	0	0	0	0	0	-0.24	-0.28	0	0	0	0	0	0
8/16/2024 22:04	45501	DERR_T2	0	0	0	0	0	0	-0.29	-0.34	2	2	0	1800	1800	0
8/16/2024 22:04	64802	MONE_T2	0	16	16	0	0.16	0.16	0.15	0.14	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/16/2024 22:05	63302	GREE_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
8/16/2024 22:05	63804	HEMP_T1	1	1	0	5.6	6.1	0.5	-1.18	0.08	0	0	0	0	0	0
8/16/2024 22:05	65802	RTWN_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
8/16/2024 22:05	42903	MIDD_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
8/16/2024 22:05	61101	BERK_T5	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
8/16/2024 22:05	64204	KINZ_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
8/16/2024 22:05	14403	SSLA_T1	0	0	0	0	0	0	0.07	0	0	0	0	0	0	0
8/16/2024 22:05	67602	WARW_T2	0	0	0	0	0	0	1.43	0.31	0	1	1	0	300	300
8/16/2024 22:05	63401	HONY_T1	0	0	0	0	0	0	-0.03	-0.07	1	1	0	600	600	0
8/16/2024 22:05	44801	EDAN_T2	7	3	-4	0.24	0.43	0.19	-1.4	-1.42	0	0	0	0	0	0
8/16/2024 22:05	66703	STRA_T1	0	5	5	0	0.22	0.22	-0.53	-0.59	0	0	0	0	0	0
8/16/2024 22:05	45501	DERR_T2	0	0	0	0	0	0	-0.29	-0.34	2	2	0	1800	1800	0
8/16/2024 22:05	64202	KINZ_T1	3	4	1	0.43	0.48	0.05	0	0	0	0	0	0	0	0
8/16/2024 22:05	63305	GREE_T1	15	5	-10	0.41	0.2	-0.21	0	0	0	0	0	0	0	0
8/16/2024 22:05	64201	KINZ_T1	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
8/16/2024 22:05	45402	WBLO_T2	76	51	-25	0.36	0.3	-0.06	-1.24	-1.3	1	1	0	900	900	0
8/16/2024 22:05	63301	GREE_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/16/2024 22:05	67605	WARW_T1	3	0	-3	0.23	0	-0.23	-1.12	-1.13	0	0	0	0	0	0
8/16/2024 22:05	64203	KINZ_T1	0	0	0	0	0	0	-0.17	-0.05	1	1	0	600	600	0
8/16/2024 22:05	46004	BERW_T2	0	0	0	0	0	0	-0.12	-0.07	0	0	0	0	0	0
8/16/2024 22:05	14404	SSLA_T1	12	7	-5	1.28	1.82	0.54	0	0	0	0	0	0	0	0
8/16/2024 22:05	67201	TEHI_T1	0	0	0	0	0	0	0.35	0.16	1	1	0	900	900	0
8/16/2024 22:06	43304	WATS_T2	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
8/16/2024 22:06	66703	STRA_T1	0	5	5	0	0.22	0.22	-0.59	-0.6	0	0	0	0	0	0
8/16/2024 22:06	43301	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/16/2024 22:06	45501	DERR_T2	0	0	0	0	0	0	-0.34	-0.32	2	2	0	1800	1800	0
8/16/2024 22:06	43202	MVIL_T2	16	16	0	0.21	0.26	0.05	-1.55	-1.56	0	0	0	0	0	0
8/16/2024 22:06	44801	EDAN_T2	7	3	-4	0.24	0.43	0.19	-1.42	-1.42	0	0	0	0	0	0
8/16/2024 22:06	42802	SELI_T1	0	0	0	0	0	0	-2.08	-0.24	2	2	0	1800	1800	0
8/16/2024 22:06	60101	COCA_T1	0	0	0	0	0	0	0.64	0.6	1	1	0	600	600	0
8/16/2024 22:06	44203	POIN_T2	0	0	0	0	0	0	-0.27	-0.4	2	2	0	2100	2100	0
8/16/2024 22:06	44202	POIN_T2	1	1	0	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
8/16/2024 22:06	64101	REFR_T1	0	0	0	0	0	0	0.37	0.31	0	0	0	0	0	0
8/16/2024 22:06	61101	BERK_T5	0	0	0	0	0	0	-0.62	-0.68	0	0	0	0	0	0
8/16/2024 22:06	43302	WATS_T2	4	4	0	0.65	0.65	0	0	0	0	0	0	0	0	0
8/16/2024 22:07	63305	GREE_T1	15	5	-10	0.41	0.2	-0.21	0	0	0	0	0	0	0	0
8/16/2024 22:07	65904	SAKR_T2	0	0	0	0	0	0	-1.65	-1.67	3	3	0	1500	1500	0
8/16/2024 22:07	46801	HEPB_T2	19	22	3	0.33	0.37	0.04	-0.02	-0.03	0	0	0	0	0	0
8/16/2024 22:07	65901	SAKR_T2	1	1	0	8.9	8	-0.9	0	0	0	0	0	0	0	0
8/16/2024 22:07	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 22:07	45501	DERR_T2	0	0	0	0	0	0	-0.68	-0.64	4	4	0	3600	3600	0
8/16/2024 22:07	63304	GREE_T1	0	0	0	0	0	0	-1.13	-1.23	0	0	0	0	0	0
8/16/2024 22:07	61402	SLIT_T1	1	1	0	7.8	7.5	-0.3	0	0	0	0	0	0	0	0
8/16/2024 22:07	46803	HEPB_T2	3	4	1	0.13	0.28	0.15	0.68	0.67	0	0	0	0	0	0
8/16/2024 22:07	46901	MNTG_T2	0	0	0	0	0	0	0.3	0.49	1	1	0	1200	1200	0
8/16/2024 22:07	64101	REFR_T1	0	0	0	0	0	0	0.37	0.31	0	0	0	0	0	0
8/16/2024 22:07	63301	GREE_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/16/2024 22:07	46004	BERW_T2	0	0	0	0	0	0	-0.07	-0.16	0	0	0	0	0	0
8/16/2024 22:07	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2024 22:08	44802	EDAN_T2	0	0	0	0	0	0	-0.4	-0.33	0	0	0	0	0	0
8/16/2024 22:08	43202	MVIL_T2	16	16	0	0.21	0.26	0.05	-0.77	-0.78	0	0	0	0	0	0
8/16/2024 22:08	46206	DANV_T2	2	1	-1	0.35	0.9	0.55	0.44	0.45	2	2	0	2100	2100	0
8/16/2024 22:08	44801	EDAN_T2	7	3	-4	0.24	0.43	0.19	0	0	0	0	0	0	0	0
8/16/2024 22:08	21501	CEAV_T2	0	0	0	0	0	0	-0.98	-1	1	1	0	1200	1200	0
8/16/2024 22:09	64305	LINC_T1	0	1	1	0	0	0	-0.24	-0.26	0	0	0	0	0	0
8/16/2024 22:09	67605	WARW_T1	3	0	-3	0.23	0	-0.23	-1.13	-1.11	0	0	0	0	0	0
8/16/2024 22:10	67602	WARW_T2	0	0	0	0	0	0	0.31	0.28	1	1	0	300	300	0
8/16/2024 22:10	45402	WBLO_T2	76	51	-25	0.36	0.3	-0.06	-1.3	-1.33	1	1	0	900	900	0
8/16/2024 22:11	15702	TANN_T2	0	0	0	0	0	0	-0.16	-0.12	0	0	0	0	0	0
8/16/2024 22:11	49804	UNIV_T1	0	0	0	0	0	0	0.91	0.9	0	0	0	0	0	0
8/16/2024 22:11	15703	TANN_T2	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
8/16/2024 22:11	49803	UNIV_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
8/16/2024 23:44	46504	LOHA_T1	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
8/16/2024 23:44	46501	LOHA_T1	1	1	0	2.3	0	-2.3	0	0	0	0	0	0	0	0
8/16/2024 23:44	46506	LOHA_T1	0	0	0	0	0	0	-3.7	-3.79	5	5	0	6000	6000	0
8/16/2024 23:46	61701	ELIZ_T1	1	1	0	3.1	2.8	-0.3	0.69	0.66	0	0	0	0	0	0
8/16/2024 23:48	60101	COCA_T1	0	0	0	0	0	0	0.49	0.5	1	1	0	600	600	0
8/17/2024 0:36	11104	EGYP_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
8/17/2024 7:56	21501	CEAV_T2	0	0	0	0	0	0	0.27	0.32	1	1	0	1200	1200	0
8/17/2024 8:15	12006	HATF_T1	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
8/17/2024 8:32	12205	FOGE_T1	0	0	0	0	0	0	1.12	1.13	1	1	0	600	600	0
8/17/2024 8:45	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 8:45	15203	SFAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 8:46	15203	SFAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 8:46	12603	MACA_T1	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
8/17/2024 8:46	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 8:46	17802	GILB_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
8/17/2024 8:47	12603	MACA_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
8/17/2024 8:47	12605	MACA_T1	0	0	0	0	0	0	-0.58	-0.54	0	0	0	0	0	0
8/17/2024 8:47	12606	MACA_T1	0	0	0	0	0	0	1.06	1.06	0	0	0	0	0	0
8/17/2024 8:49	12604	MACA_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
8/17/2024 8:50	12604	MACA_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
8/17/2024 8:50	12602	MACA_T1	0	0	0	0	0	0	-1.99	-2.04	0	0	0	0	0	0
8/17/2024 8:51	12605	MACA_T1	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
8/17/2024 8:57	11102	EGYP_T1	1	1	0	0.5	0.8	0.3	-0.19	-0.14	0	0	0	0	0	0
8/17/2024 8:57	11101	EGYP_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
8/17/2024 8:58	11101	EGYP_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
8/17/2024 8:58	11102	EGYP_T1	1	1	0	0.5	0.8	0.3	-0.19	-0.14	0	0	0	0	0	0
8/17/2024 8:58	11103	EGYP_T1	0	0	0	0	0	0	-0.83	-0.81	0	0	0	0	0	0
8/17/2024 9:01	11104	EGYP_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 9:01	11103	EGYP_T1	0	0	0	0	0	0	-0.83	-0.81	0	0	0	0	0	0
8/17/2024 9:01	11101	EGYP_T1	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
8/17/2024 9:01	11102	EGYP_T1	1	2	1	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
8/17/2024 9:02	64902	MILL_T2	0	0	0	0	0	0	-1	-1.04	1	1	0	900	900	0
8/17/2024 9:03	64902	MILL_T2	0	0	0	0	0	0	-1	-1.04	1	1	0	900	900	0
8/17/2024 9:06	64204	KINZ_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/17/2024 9:06	64202	KINZ_T1	0	0	0	0	0	0	0.95	0.96	0	0	0	0	0	0
8/17/2024 9:07	42802	SELI_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	900	900	0
8/17/2024 9:21	65502	MOJO_T2	0	0	0	0	0	0	-3.14	-3.17	2	2	0	1800	1800	0
8/17/2024 9:21	64101	REFR_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
8/17/2024 9:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 9:26	67503	WEWI_T2	1	1	0	5.8	5.6	-0.2	0.1	0.16	0	0	0	0	0	0
8/17/2024 9:32	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 9:32	21206	ECAR_T2	1	1	0	7.2	7.2	0	0.08	0.18	0	0	0	0	0	0
8/17/2024 9:59	12605	MACA_T1	0	0	0	0	0	0	-0.4	-0.36	0	0	0	0	0	0
8/17/2024 10:00	12605	MACA_T1	0	0	0	0	0	0	-0.4	-0.36	0	0	0	0	0	0
8/17/2024 10:00	63602	LETO_T1	0	0	0	0	0	0	-0.73	-0.69	1	1	0	600	600	0
8/17/2024 10:00	67503	WEWI_T2	1	1	0	5.6	5.2	-0.4	0.13	0.12	0	0	0	0	0	0
8/17/2024 10:09	64204	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/17/2024 10:09	64202	KINZ_T1	0	0	0	0	0	0	0.96	1.05	0	0	0	0	0	0
8/17/2024 10:12	21501	CEAV_T2	0	0	0	0	0	0	0.89	0.67	1	1	0	1200	1200	0
8/17/2024 10:14	21206	ECAR_T2	1	1	0	7.2	7.8	0.6	0.1	0.31	0	0	0	0	0	0
8/17/2024 10:14	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 10:14	10801	CHHI_T1	1	5	4	0.2	0.4	0.2	-0.88	-0.93	2	2	0	1500	1500	0
8/17/2024 10:17	23102	MOSC_T2	0	0	0	0	0	0	-0.39	-0.33	2	2	0	1800	1800	0
8/17/2024 10:18	64305	LINC_T1	1	1	0	0.2	0	-0.2	-0.17	-0.16	0	0	0	0	0	0
8/17/2024 10:19	25503	MADI_T1	0	0	0	0	0	0	-0.8	-0.76	0	0	0	0	0	0
8/17/2024 10:19	25501	MADI_T1	4	4	0	1.15	0.85	-0.3	0	0	0	0	0	0	0	0
8/17/2024 10:23	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 10:24	67604	WARW_T1	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
8/17/2024 10:30	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 10:31	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 10:39	43304	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/17/2024 10:39	43301	WATS_T2	0	0	0	0	0	0	-0.44	-0.46	1	1	0	900	900	0
8/17/2024 10:40	16301	ALPA_T1	0	0	0	0	0	0	-1.72	-1.69	0	0	0	0	0	0
8/17/2024 10:42	16301	ALPA_T1	0	0	0	0	0	0	-5.15	-5.06	0	0	0	0	0	0
8/17/2024 10:42	17805	GILB_T2	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
8/17/2024 10:44	16301	ALPA_T1	0	0	0	0	0	0	-1.72	-1.69	0	0	0	0	0	0
8/17/2024 10:46	17805	GILB_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
8/17/2024 10:47	64902	MILL_T2	0	0	0	0	0	0	-0.97	-0.99	1	1	0	900	900	0
8/17/2024 10:48	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 10:48	10103	ALLE_T3	2	1	-1	0.85	0.5	-0.35	0	0	0	0	0	0	0	0
8/17/2024 10:48	10105	ALLE_T3	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/17/2024 10:48	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 10:52	65603	QVIL_T2	0	0	0	0	0	0	0.18	-0.72	0	0	0	0	0	0
8/17/2024 10:53	14601	SWHI_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
8/17/2024 10:54	64902	MILL_T2	0	0	0	0	0	0	-0.99	-0.97	1	1	0	900	900	0
8/17/2024 10:57	11102	EGYP_T1	1	3	2	0.4	1.2	0.8	0	0	0	0	0	0	0	0
8/17/2024 10:57	11104	EGYP_T1	6	6	0	1.07	0.62	-0.45	0	0	0	0	0	0	0	0
8/17/2024 10:57	11101	EGYP_T1	1	1	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
8/17/2024 10:57	11103	EGYP_T1	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
8/17/2024 10:58	63304	GREE_T1	0	0	0	0	0	0	-1.01	-1.37	0	0	0	0	0	0
8/17/2024 10:59	11102	EGYP_T1	1	3	2	0.4	1.2	0.8	0	0	0	0	0	0	0	0
8/17/2024 10:59	11103	EGYP_T1	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
8/17/2024 10:59	63304	GREE_T1	0	0	0	0	0	0	-1.01	-1.37	0	0	0	0	0	0
8/17/2024 10:59	11104	EGYP_T1	6	6	0	1.07	0.62	-0.45	0	0	0	0	0	0	0	0
8/17/2024 10:59	11101	EGYP_T1	1	1	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
8/17/2024 11:03	63403	HONY_T2	0	0	0	0	0	0	-0.5	-0.98	1	1	0	600	600	0
8/17/2024 11:18	12006	HATF_T1	0	0	0	0	0	0	0.81	0.81	0	0	0	0	0	0
8/17/2024 11:21	13905	SEID_T1	0	0	0	0	0	0	-0.69	-0.7	1	1	0	1200	1200	0
8/17/2024 11:26	46203	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/17/2024 11:26	46206	DANV_T2	2	2	0	1.95	1.5	-0.45	0.44	0.43	2	2	0	2100	2100	0
8/17/2024 11:27	16005	DORN_T1	1	1	0	0.1	0.2	0.1	0.7	0.7	0	0	0	0	0	0
8/17/2024 11:27	46206	DANV_T2	2	2	0	1.95	1.5	-0.45	0	0	0	0	0	0	0	0
8/17/2024 11:27	46203	DANV_T2	1	0	-1	0.2	0	-0.2	-1.71	-1.7	0	0	0	0	0	0
8/17/2024 11:29	46206	DANV_T2	2	2	0	1.95	1.5	-0.45	0	0	0	0	0	0	0	0
8/17/2024 11:29	46203	DANV_T2	1	0	-1	0.2	0	-0.2	-1.71	-1.7	0	0	0	0	0	0
8/17/2024 11:29	44801	EDAN_T2	3	4	1	0.33	0.28	-0.05	-1.49	-1.48	0	0	0	0	0	0
8/17/2024 11:31	46206	DANV_T2	2	2	0	1.7	1.3	-0.4	0.44	0.43	2	2	0	2100	2100	0
8/17/2024 11:33	64902	MILL_T2	0	0	0	0	0	0	-0.93	-0.96	1	1	0	900	900	0
8/17/2024 11:36	64101	REFR_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
8/17/2024 11:37	64101	REFR_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
8/17/2024 11:38	64101	REFR_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/17/2024 11:40	64101	REFR_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
8/17/2024 11:42	67503	WEWI_T2	1	1	0	5.1	5.5	0.4	-0.51	-0.52	0	0	0	0	0	0
8/17/2024 11:50	62104	ELAN_T1	0	0	0	0	0	0	0.15	0.15	2	2	0	1500	1500	0
8/17/2024 11:51	62104	ELAN_T1	0	0	0	0	0	0	0.15	0.19	2	2	0	1500	1500	0
8/17/2024 11:52	62104	ELAN_T1	0	0	0	0	0	0	0.15	0.19	2	2	0	1500	1500	0
8/17/2024 11:54	67201	TEHI_T1	0	1	1	0	0.1	0.1	-0.16	-0.17	1	1	0	900	900	0
8/17/2024 12:05	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
8/17/2024 12:05	22701	MINO_T1	0	0	0	0	0	0	-0.02	0.01	0	0	0	0	0	0
8/17/2024 12:05	64203	KINZ_T1	0	0	0	0	0	0	-0.98	-1.42	3	3	0	2100	2100	0
8/17/2024 12:06	65202	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 12:06	65205	PRIN_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
8/17/2024 12:14	45501	DERR_T2	0	0	0	0	0	0	-0.61	-0.53	2	2	0	1800	1800	0
8/17/2024 12:16	22701	MINO_T1	0	0	0	0	0	0	0.01	0.08	0	0	0	0	0	0
8/17/2024 12:16	66703	STRA_T1	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
8/17/2024 12:25	46203	DANV_T2	0	0	0	0	0	0	-1.67	-1.7	0	0	0	0	0	0
8/17/2024 12:25	46206	DANV_T2	2	3	1	1.25	1.47	0.22	0	0	0	0	0	0	0	0
8/17/2024 12:26	61501	EPET_T2	1	1	0	5.4	4.8	-0.6	0	0	0	0	0	0	0	0
8/17/2024 12:26	61506	EPET_T2	0	0	0	0	0	0	-0.74	-0.7	1	1	0	900	900	0
8/17/2024 12:31	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 12:37	49803	UNIV_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
8/17/2024 12:37	49804	UNIV_T1	0	0	0	0	0	0	0.84	0.91	0	0	0	0	0	0
8/17/2024 12:41	45501	DERR_T2	0	0	0	0	0	0	-0.62	-0.65	2	2	0	1800	1800	0
8/17/2024 12:42	45501	DERR_T2	0	0	0	0	0	0	-0.62	-0.65	2	2	0	1800	1800	0
8/17/2024 12:55	66203	SISP_T2	0	0	0	0	0	0	-0.86	-0.65	1	1	0	1200	1200	0
8/17/2024 12:55	16102	BING_T2	0	0	0	0	0	0	0.79	0.7	0	0	0	0	0	0
8/17/2024 13:00	64704	LITI_T1	0	0	0	0	0	0	0.31	0.26	1	1	0	600	600	0
8/17/2024 13:03	64704	LITI_T1	0	0	0	0	0	0	0.31	0.26	1	1	0	600	600	0
8/17/2024 13:05	46002	BERW_T2	0	0	0	0	0	0	-1.11	-1.1	1	1	0	900	900	0
8/17/2024 13:08	66703	STRA_T1	0	0	0	0	0	0	-0.3	-0.16	0	0	0	0	0	0
8/17/2024 13:13	61301	EARL_T1	0	0	0	0	0	0	-1.01	-1.01	2	2	0	1800	1800	0
8/17/2024 13:17	25501	MADI_T1	3	4	1	0.77	1.13	0.36	0	0	0	0	0	0	0	0
8/17/2024 13:17	25503	MADI_T1	0	0	0	0	0	0	-0.66	-0.72	0	0	0	0	0	0
8/17/2024 13:19	22701	MINO_T1	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
8/17/2024 13:23	12302	LANA_T2	0	0	0	0	0	0	-1.27	-1.31	2	2	0	1500	1500	0
8/17/2024 13:24	45602	WOOL_T1	1	0	-1	0.1	0	-0.1	0.17	0.2	0	0	0	0	0	0
8/17/2024 13:25	64101	REFR_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
8/17/2024 13:26	67503	WEWI_T2	1	1	0	5.3	5	-0.3	-0.4	-0.41	0	0	0	0	0	0
8/17/2024 13:28	45602	WOOL_T1	1	0	-1	0.1	0	-0.1	0.17	0.2	0	0	0	0	0	0
8/17/2024 13:30	11104	EGYP_T1	6	5	-1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/17/2024 13:30	11102	EGYP_T1	0	1	1	0	0	0	-0.07	-0.05	0	0	0	0	0	0
8/17/2024 13:31	11104	EGYP_T1	6	5	-1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/17/2024 13:31	11102	EGYP_T1	0	1	1	0	0	0	-0.07	-0.05	0	0	0	0	0	0
8/17/2024 13:36	15603	NSTR_T2	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
8/17/2024 13:45	63401	HONY_T1	0	0	0	0	0	0	0.08	0.06	1	1	0	600	600	0
8/17/2024 13:51	67702	WERN_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
8/17/2024 13:51	67201	TEHI_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/17/2024 13:51	67203	TEHI_T1	0	0	0	0	0	0	1.84	1.87	1	1	0	900	900	0
8/17/2024 13:53	44902	SCOT_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
8/17/2024 13:55	67201	TEHI_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/17/2024 13:55	67203	TEHI_T1	0	0	0	0	0	0	1.84	1.87	1	1	0	900	900	0
8/17/2024 13:57	44801	EDAN_T2	1	1	0	0.8	0.9	0.1	-1.44	-1.46	0	0	0	0	0	0
8/17/2024 14:13	16002	DORN_T2	0	0	0	0	0	0	-0.37	-0.38	1	1	0	1200	1200	0
8/17/2024 14:16	46602	LACR_T1	0	0	0	0	0	0	-0.72	-0.59	0	0	0	0	0	0
8/17/2024 14:17	46602	LACR_T1	0	0	0	0	0	0	-0.72	-0.59	0	0	0	0	0	0
8/17/2024 14:20	60404	DILL_T2	0	0	0	0	0	0	-0.23	-0.16	1	1	0	1200	1200	0
8/17/2024 14:20	25501	MADI_T1	3	3	0	0.93	1.27	0.34	0	0	0	0	0	0	0	0
8/17/2024 14:20	25503	MADI_T1	0	0	0	0	0	0	-0.71	-0.74	0	0	0	0	0	0
8/17/2024 14:31	42903	MIDD_T2	7	8	1	0.9	0.79	-0.11	0	0	0	0	0	0	0	0
8/17/2024 14:31	42902	MIDD_T2	47	44	-3	0.32	0.29	-0.03	-0.43	-0.44	0	0	0	0	0	0
8/17/2024 14:31	42901	MIDD_T2	42	48	6	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
8/17/2024 14:35	46402	FLEM_T2	0	0	0	0	0	0	-0.63	-0.77	2	2	0	1800	1800	0
8/17/2024 14:35	44201	POIN_T1	114	95	-19	0.3	0.23	-0.07	-2.17	-2.09	2	2	0	2100	2100	0
8/17/2024 14:37	44201	POIN_T1	114	95	-19	0.3	0.23	-0.07	-2.09	-2.14	2	2	0	2100	2100	0
8/17/2024 14:51	65207	PRIN_T4	0	1	1	0	0.1	0.1	0	0	2	2	0	1800	1800	0
8/17/2024 14:51	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 14:54	44301	BEAV_T2	9	16	7	0.43	0.48	0.05	0	0	0	0	0	0	0	0
8/17/2024 14:54	44302	BEAV_T2	212	280	68	0.37	0.44	0.07	0	0	0	0	0	0	0	0
8/17/2024 14:55	44302	BEAV_T2	212	280	68	0.37	0.44	0.07	0.41	0.44	0	0	0	0	0	0
8/17/2024 14:55	21504	CEAV_T1	0	0	0	0	0	0	0.87	0.87	1	1	0	1200	1200	0
8/17/2024 14:55	44301	BEAV_T2	9	16	7	0.43	0.48	0.05	0	0	0	0	0	0	0	0
8/17/2024 14:57	44301	BEAV_T2	9	16	7	0.43	0.48	0.05	-1.49	-1.48	2	2	0	1200	1200	0
8/17/2024 14:57	44302	BEAV_T2	212	280	68	0.37	0.44	0.07	0	0	0	0	0	0	0	0
8/17/2024 14:58	44301	BEAV_T2	9	16	7	0.43	0.48	0.05	0	0	0	0	0	0	0	0
8/17/2024 14:58	44302	BEAV_T2	212	280	68	0.37	0.44	0.07	0.41	0.44	0	0	0	0	0	0
8/17/2024 14:59	44301	BEAV_T2	9	16	7	0.43	0.48	0.05	0	0	0	0	0	0	0	0
8/17/2024 14:59	44302	BEAV_T2	212	280	68	0.37	0.44	0.07	1.23	1.33	0	0	0	0	0	0
8/17/2024 15:02	12004	HATF_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
8/17/2024 15:02	63803	HEMP_T1	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
8/17/2024 15:02	12002	HATF_T1	0	0	0	0	0	0	-1.3	-1.26	1	1	0	1200	1200	0
8/17/2024 15:02	63804	HEMP_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
8/17/2024 15:03	46504	LOHA_T1	2	2	0	0.55	1.45	0.9	0	0	0	0	0	0	0	0
8/17/2024 15:03	46506	LOHA_T1	0	0	0	0	0	0	-3.74	-3.78	4	4	0	4200	4200	0
8/17/2024 15:03	46501	LOHA_T1	1	1	0	2.1	0	-2.1	0	0	0	0	0	0	0	0
8/17/2024 15:04	63804	HEMP_T1	1	1	0	6	6.1	0.1	-0.24	-0.24	0	0	0	0	0	0
8/17/2024 15:08	46501	LOHA_T1	1	1	0	2.1	0	-2.1	0	0	0	0	0	0	0	0
8/17/2024 15:08	46506	LOHA_T1	0	0	0	0	0	0	-3.78	-3.72	4	4	0	4200	4200	0
8/17/2024 15:08	46504	LOHA_T1	2	2	0	0.55	1.45	0.9	0	0	0	0	0	0	0	0
8/17/2024 15:09	46501	LOHA_T1	1	1	0	2.1	0	-2.1	0	0	0	0	0	0	0	0
8/17/2024 15:09	46506	LOHA_T1	0	0	0	0	0	0	-1.89	-1.86	2	2	0	2100	2100	0
8/17/2024 15:09	46504	LOHA_T1	2	2	0	0.55	1.45	0.9	0	0	0	0	0	0	0	0
8/17/2024 15:17	26401	INOR_T1	1	1	0	8.4	8.5	0.1	0	0	0	0	0	0	0	0
8/17/2024 15:17	26402	INOR_T1	0	0	0	0	0	0	-1.59	-1.51	1	1	0	600	600	0
8/17/2024 15:21	43802	SWIL_T1	0	0	0	0	0	0	1.02	0.98	0	0	0	0	0	0
8/17/2024 15:21	43801	SWIL_T1	7	2	-5	1.09	3.3	2.21	0	0	0	0	0	0	0	0
8/17/2024 15:21	62102	ELAN_T1	0	0	0	0	0	0	0.91	0.85	0	0	0	0	0	0
8/17/2024 15:22	10801	OHIH_T1	0	0	0	0	0	0	-0.93	-0.9	2	2	0	1500	1500	0
8/17/2024 15:23	62102	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 15:24	13503	MCMI_T2	3	2	-1	0.13	0.15	0.02	-0.81	-0.79	0	0	0	0	0	0
8/17/2024 15:26	44302	BEAV_T2	265	261	-4	0.45	0.41	-0.04	0	0	0	0	0	0	0	0
8/17/2024 15:26	44301	BEAV_T2	15	13	-2	0.49	0.46	-0.03	-0.77	-0.8	1	1	0	600	600	0
8/17/2024 15:28	44302	BEAV_T2	265	261	-4	0.45	0.41	-0.04	0	0	0	0	0	0	0	0
8/17/2024 15:28	44301	BEAV_T2	15	13	-2	0.49	0.46	-0.03	-1.54	-1.6	2	2	0	1200	1200	0
8/17/2024 15:29	44301	BEAV_T2	15	13	-2	0.49	0.46	-0.03	-0.77	-0.8	1	1	0	600	600	0
8/17/2024 15:29	44302	BEAV_T2	265	261	-4	0.45	0.41	-0.04	0	0	0	0	0	0	0	0
8/17/2024 15:30	22701	MINO_T1	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
8/17/2024 15:34	42902	MIDD_T2	59	54	-5	0.4	0.43	0.03	-0.36	-0.39	0	0	0	0	0	0
8/17/2024 15:34	42903	MIDD_T2	50	40	-10	0.44	0.49	0.05	0.13	0.15	0	0	0	0	0	0
8/17/2024 15:34	42901	MIDD_T2	102	106	4	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
8/17/2024 15:45	63501	HEID_TBK1-2	55	55	0	1.92	1.79	-0.13	-0.09	-0.01	1	1	0	900	900	0
8/17/2024 15:49	26401	INOR_T1	1	1	0	7.9	8.1	0.2	0	0	0	0	0	0	0	0
8/17/2024 15:49	26402	INOR_T1	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
8/17/2024 15:52	63602	LETO_T1	0	0	0	0	0	0	-0.61	-0.6	1	1	0	600	600	0
8/17/2024 15:56	16005	DORN_T1	1	0	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/17/2024 16:16	12002	HATF_T1	0	0	0	0	0	0	-1.29	-1.27	1	1	0	1200	1200	0
8/17/2024 16:16	12005	HATF_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/17/2024 16:17	12005	HATF_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/17/2024 16:17	12003	HATF_T1	0	0	0	0	0	0	1.19	1.2	0	0	0	0	0	0
8/17/2024 16:33	64605	LEOL_T1	0	0	0	0	0	0	-0.2	-0.24	1	1	0	300	300	0
8/17/2024 16:34	64605	LEOL_T1	0	0	0	0	0	0	-0.2	-0.24	1	1	0	300	300	0
8/17/2024 16:40	10705	CATA_T2	0	0	0	0	0	0	-0.82	-0.79	0	0	0	0	0	0
8/17/2024 16:47	26402	INOR_T1	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
8/17/2024 16:47	26401	INOR_T1	1	1	0	8.1	8.1	0	0	0	0	0	0	0	0	0
8/17/2024 16:48	12002	HATF_T1	0	0	0	0	0	0	-1.26	-1.29	1	1	0	1200	1200	0
8/17/2024 16:48	12005	HATF_T1	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
8/17/2024 16:52	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 16:54	13503	MCMI_T2	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
8/17/2024 16:57	61306	EARL_T1	0	0	0	0	0	0	-1.21	-1.22	0	0	0	0	0	0
8/17/2024 17:00	63501	HEID_TBK1-2	55	55	0	1.94	1.94	0	0.04	0.04	1	1	0	900	900	0
8/17/2024 17:06	44202	POIN_T2	0	0	0	0	0	0	-0.77	-0.79	1	1	0	1200	1200	0
8/17/2024 17:06	44203	POIN_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/17/2024 17:07	64701	LITI_T1	0	0	0	0	0	0	0.37	0.44	0	0	0	0	0	0
8/17/2024 17:11	63602	LETO_T1	0	0	0	0	0	0	-0.53	-0.51	1	1	0	600	600	0
8/17/2024 17:19	10705	CATA_T2	0	0	0	0	0	0	-0.78	-0.73	0	0	0	0	0	0
8/17/2024 17:20	20802	LOPO_T1	0	0	0	0	0	0	-1.09	-1.11	1	1	0	600	600	0
8/17/2024 17:26	11203	ELHE_T1	0	0	0	0	0	0	1.21	1.18	0	0	0	0	0	0
8/17/2024 17:35	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 17:37	63602	LETO_T1	0	0	0	0	0	0	-0.56	-0.53	1	1	0	600	600	0
8/17/2024 18:03	63501	HEID_TBK1-2	55	55	0	2.06	1.93	-0.13	0.1	0.06	1	1	0	900	900	0
8/17/2024 18:05	13701	SCHN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 18:07	13701	SCHN_T2	0	0	0	0	0	0	0.43	0.47	1	1	0	600	600	0
8/17/2024 18:33	23901	ERMO_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
8/17/2024 18:34	66302	MCGO_T2	0	0	0	0	0	0	-1.33	-1.34	1	1	0	600	600	0
8/17/2024 18:35	62102	ELAN_T1	0	0	0	0	0	0	0.93	1.09	0	0	0	0	0	0
8/17/2024 18:37	62102	ELAN_T1	0	0	0	0	0	0	1.09	0.87	0	0	0	0	0	0
8/17/2024 18:40	60404	DILL_T2	0	0	0	0	0	0	-0.11	-0.16	1	1	0	1200	1200	0
8/17/2024 18:53	66202	SISP_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
8/17/2024 18:58	63304	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/17/2024 18:58	63305	GREE_T1	1	4	3	0.2	0.23	0.03	-2.05	-2.08	1	1	0	900	900	0
8/17/2024 19:32	11205	ELHE_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/17/2024 19:32	11203	ELHE_T1	0	0	0	0	0	0	1.16	1.13	0	0	0	0	0	0
8/17/2024 20:03	64605	LEOL_T1	0	0	0	0	0	0	-0.3	-0.23	1	1	0	300	300	0
8/17/2024 20:27	66505	SMAN_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/17/2024 20:27	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 20:48	43304	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/17/2024 20:48	43301	WATS_T2	0	0	0	0	0	0	-0.44	-0.44	1	1	0	900	900	0
8/17/2024 21:07	63403	HONY_T2	0	0	0	0	0	0	-0.9	-0.95	1	1	0	600	600	0
8/17/2024 21:17	44301	BEAV_T2	13	3	-10	0.59	0	-0.59	0	0	0	0	0	0	0	0
8/17/2024 21:17	44302	BEAV_T2	324	0	-324	0.46	0	-0.46	0.41	0.35	0	0	0	0	0	0
8/17/2024 21:21	46206	DANV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/17/2024 21:21	46203	DANV_T2	0	0	0	0	0	0	-1.79	-1.83	0	0	0	0	0	0
8/17/2024 21:22	44302	BEAV_T2	324	0	-324	0.46	0	-0.46	0.7	0.69	0	0	0	0	0	0
8/17/2024 21:22	44301	BEAV_T2	13	3	-10	0.59	0	-0.59	0	0	0	0	0	0	0	0
8/17/2024 21:23	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/17/2024 21:26	44201	POIN_T1	165	129	-36	0.44	0.32	-0.12	-2.04	-2.1	2	2	0	2100	2100	0
8/17/2024 21:28	44301	BEAV_T2	13	3	-10	0.59	0	-0.59	-0.85	-0.87	1	1	0	600	600	0
8/17/2024 21:28	44302	BEAV_T2	324	0	-324	0.46	0	-0.46	0	0	0	0	0	0	0	0
8/17/2024 21:29	46206	DANV_T2	1	1	0	0.1	0	-0.1	0.34	0.39	2	2	0	2100	2100	0
8/17/2024 21:31	45501	DERR_T2	0	0	0	0	0	0	-0.56	-0.64	2	2	0	1800	1800	0
8/17/2024 21:32	45501	DERR_T2	0	0	0	0	0	0	-0.56	-0.64	2	2	0	1800	1800	0
8/17/2024 21:34	44301	BEAV_T2	3	0	-3	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/17/2024 21:35	45501	DERR_T2	0	0	0	0	0	0	-0.56	-0.64	2	2	0	1800	1800	0
8/17/2024 21:35	44301	BEAV_T2	3	0	-3	0.7	0	-0.7	-0.85	-0.87	1	1	0	600	600	0
8/17/2024 21:36	42903	MIDD_T2	0	0	0	0	0	0	-0.23	-0.29	0	0	0	0	0	0
8/17/2024 21:37	12601	MACA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/17/2024 21:37	44301	BEAV_T2	3	0	-3	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/17/2024 21:37	12605	MACA_T1	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
8/17/2024 21:37	44302	BEAV_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
8/17/2024 21:37	42902	MIDD_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
8/17/2024 21:37	46602	LACR_T1	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
8/17/2024 21:38	61506	EPET_T2	0	0	0	0	0	0	-0.14	0.16	1	0	-1	900	0	-900
8/17/2024 21:38	66302	MCGO_T2	0	0	0	0	0	0	-1.4	-1.42	1	1	0	600	600	0
8/17/2024 21:38	61501	EPET_T2	1	1	0	4.7	4.9	0.2	0	0	0	0	0	0	0	0
8/17/2024 21:40	17805	GILB_T2	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
8/17/2024 21:41	64701	LITI_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
8/17/2024 21:42	46203	DANV_T2	0	0	0	0	0	0	-1.83	-1.82	0	0	0	0	0	0
8/17/2024 21:42	46206	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/17/2024 21:42	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 21:42	64704	LITI_T1	0	0	0	0	0	0	0.05	0.15	1	1	0	600	600	0
8/17/2024 21:43	67702	WERN_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
8/17/2024 21:43	13503	MCMI_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
8/17/2024 21:43	49803	UNIV_T1	1	1	0	5.4	5.1	-0.3	0	0	0	0	0	0	0	0
8/17/2024 21:43	49804	UNIV_T1	0	1	1	0	0.2	0.2	0.77	0.71	0	0	0	0	0	0
8/17/2024 21:43	20802	LOPO_T1	0	0	0	0	0	0	-1.09	-1.12	1	1	0	600	600	0
8/17/2024 21:45	44801	EDAN_T2	23	44	21	0.23	0.25	0.02	-1.5	-1.47	0	0	0	0	0	0
8/17/2024 21:45	44201	POIN_T1	125	189	64	0.3	0.4	0.1	-2.1	-2.11	2	2	0	2100	2100	0
8/17/2024 21:45	46206	DANV_T2	0	0	0	0	0	0	0.39	0.33	2	2	0	2100	2100	0
8/17/2024 21:46	44301	BEAV_T2	0	0	0	0	0	0	-0.87	-0.86	1	1	0	600	600	0
8/17/2024 21:46	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 21:46	21206	ECAR_T2	1	1	0	7.7	7.8	0.1	-0.01	0.15	0	0	0	0	0	0
8/17/2024 21:47	67203	TEHI_T1	0	0	0	0	0	0	1.1	1.07	1	1	0	900	900	0
8/17/2024 21:47	67604	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 21:47	23901	EFMO_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
8/17/2024 21:48	12003	HATF_T1	0	0	0	0	0	0	1.19	1.09	0	0	0	0	0	0
8/17/2024 21:48	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 21:48	63804	HEMP_T1	1	1	0	5.5	5.4	-0.1	-0.41	-0.44	0	0	0	0	0	0
8/17/2024 21:48	12006	HATF_T1	0	0	0	0	0	0	0.64	0.58	0	0	0	0	0	0
8/17/2024 21:48	15603	NSTR_T2	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
8/17/2024 21:48	12005	HATF_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
8/17/2024 21:48	17805	GILB_T2	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
8/17/2024 21:48	11103	EGYP_T1	0	0	0	0	0	0	-0.8	-0.83	0	0	0	0	0	0
8/17/2024 21:48	45602	WOOL_T1	21	25	4	0.29	0.34	0.05	0.18	0.18	0	0	0	0	0	0
8/17/2024 21:49	44801	EDAN_T2	23	44	21	0.23	0.25	0.02	-1.5	-1.47	0	0	0	0	0	0
8/17/2024 21:49	65207	PRIN_T4	10	0	-10	0.1	0	-0.1	0	0	2	2	0	1800	1800	0
8/17/2024 21:49	44302	BEAV_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
8/17/2024 21:49	67503	WEWI_T2	1	1	0	5.8	6.2	0.4	-0.47	-0.51	0	0	0	0	0	0
8/17/2024 21:49	10705	CATA_T2	0	0	0	0	0	0	-0.94	-0.96	0	0	0	0	0	0
8/17/2024 21:49	46602	LACR_T1	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
8/17/2024 21:49	62102	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/17/2024 21:49	11102	EGYP_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
8/17/2024 21:49	62104	ELAN_T1	0	0	0	0	0	0	0.04	0.02	1	1	0	1200	1200	0
8/17/2024 21:49	17805	GILB_T2	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
8/17/2024 21:49	43801	SWIL_T1	2	2	0	3.25	3.35	0.1	0	0	0	0	0	0	0	0
8/17/2024 21:49	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/17/2024 21:49	43802	SWIL_T1	0	0	0	0	0	0	0.16	0.13	1	1	0	600	600	0
8/17/2024 21:50	13701	SCHN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 21:50	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 21:50	10801	CHHI_T1	0	0	0	0	0	0	-1.1	-0.5	2	1	-1	1500	900	-600
8/17/2024 21:50	62102	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/17/2024 21:50	62104	ELAN_T1	0	0	0	0	0	0	0.04	0.02	1	1	0	1200	1200	0
8/17/2024 21:50	10205	ALLE_T3	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 21:50	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/17/2024 21:50	11103	EGYP_T1	0	0	0	0	0	0	-0.8	-0.83	0	0	0	0	0	0
8/17/2024 21:51	64305	LINC_T1	0	0	0	0	0	0	-0.39	-0.42	0	0	0	0	0	0
8/17/2024 21:51	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 21:51	67503	WEWI_T2	1	1	0	5.8	6.2	0.4	-0.51	-0.48	0	0	0	0	0	0
8/17/2024 21:52	13905	SEID_T1	0	0	0	0	0	0	-0.77	-0.8	1	1	0	1200	1200	0
8/17/2024 21:52	44301	BEAV_T2	0	0	0	0	0	0	-0.86	-0.85	1	1	0	600	600	0
8/17/2024 21:52	61306	EARL_T1	0	0	0	0	0	0	-1.21	-1.22	0	0	0	0	0	0
8/17/2024 21:52	63804	HEMP_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
8/17/2024 21:52	12005	HATF_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
8/17/2024 21:52	63803	HEMP_T1	0	0	0	0	0	0	0.86	0.82	0	0	0	0	0	0
8/17/2024 21:52	12002	HATF_T1	0	0	0	0	0	0	-2.77	-2.85	2	2	0	2400	2400	0
8/17/2024 21:52	63501	HEID_TBK1-2	55	55	0	1.9	1.63	-0.27	-0.18	-0.19	1	1	0	900	900	0
8/17/2024 21:53	61301	EARL_T1	0	0	0	0	0	0	-0.41	-0.41	1	1	0	900	900	0
8/17/2024 21:53	63401	HONY_T1	0	0	0	0	0	0	-0.09	-0.02	1	1	0	600	600	0
8/17/2024 21:53	13503	MCMI_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
8/17/2024 21:53	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 21:53	63404	HONY_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/17/2024 21:54	63501	HEID_TBK1-2	55	55	0	1.9	1.63	-0.27	-0.18	-0.19	1	1	0	900	900	0
8/17/2024 21:54	67203	TEHI_T1	0	0	0	0	0	0	1.07	1.06	1	1	0	900	900	0
8/17/2024 21:54	14601	SWHI_T1	0	0	0	0	0	0	-0.61	-0.63	0	0	0	0	0	0
8/17/2024 21:54	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/17/2024 21:54	62102	ELAN_T1	1	0	-1	0.2	0	-0.2	0.85	0.85	0	0	0	0	0	0
8/17/2024 21:54	64101	REFR_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
8/17/2024 21:54	64902	MILL_T2	0	0	0	0	0	0	-0.94	-0.99	1	1	0	900	900	0
8/17/2024 21:54	16102	BING_T2	0	0	0	0	0	0	0.57	0.52	0	0	0	0	0	0
8/17/2024 21:55	16002	DORN_T2	0	0	0	0	0	0	-0.44	-0.41	1	1	0	1200	1200	0
8/17/2024 21:55	62104	ELAN_T1	0	0	0	0	0	0	0.02	-0.02	1	1	0	1200	1200	0
8/17/2024 21:55	16301	ALPA_T1	0	0	0	0	0	0	-1.9	-1.98	0	0	0	0	0	0
8/17/2024 21:55	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/17/2024 21:55	63305	GREE_T1	7	10	3	0.16	0.29	0.13	0	0	0	0	0	0	0	0
8/17/2024 21:55	63304	GREE_T1	0	0	0	0	0	0	-1.36	-1.36	0	0	0	0	0	0
8/17/2024 21:55	11102	EGYP_T1	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
8/17/2024 21:55	64101	REFR_T1	0	0	0	0	0	0	0.53	0.62	0	0	0	0	0	0
8/17/2024 21:55	62102	ELAN_T1	1	0	-1	0.2	0	-0.2	0.85	0.85	0	0	0	0	0	0
8/17/2024 21:56	65205	PRIN_T1	1	2	1	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
8/17/2024 21:56	63602	LETO_T1	0	0	0	0	0	0	-0.68	-0.75	1	1	0	600	600	0
8/17/2024 21:56	44902	SCOT_T2	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
8/17/2024 21:56	12302	LANA_T2	0	0	0	0	0	0	-1.32	-1.32	2	2	0	1500	1500	0
8/17/2024 21:57	25503	MADI_T1	49	91	42	0.16	0.28	0.12	-0.83	-0.85	0	0	0	0	0	0
8/17/2024 21:57	10801	CHHI_T1	0	0	0	0	0	0	-0.5	-0.51	1	1	0	900	900	0
8/17/2024 21:57	63305	GREE_T1	7	10	3	0.16	0.29	0.13	-2.13	-2.2	1	1	0	900	900	0
8/17/2024 21:57	46203	DANV_T2	0	0	0	0	0	0	-1.82	-1.82	0	0	0	0	0	0
8/17/2024 21:57	16301	ALPA_T1	0	0	0	0	0	0	-1.9	-1.98	0	0	0	0	0	0
8/17/2024 21:57	64902	MILL_T2	0	0	0	0	0	0	-0.94	-0.99	1	1	0	900	900	0
8/17/2024 21:57	64101	REFR_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
8/17/2024 21:57	25501	MADI_T1	3	3	0	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
8/17/2024 21:58	64202	KINZ_T1	3	3	0	0.7	0.8	0.1	0.67	0.8	0	0	0	0	0	0
8/17/2024 21:58	23102	MOSC_T2	0	0	0	0	0	0	-0.78	-0.84	2	2	0	1800	1800	0
8/17/2024 21:58	46506	LOHA_T1	2	1	-1	0.1	0.1	0	-5.8	-5.81	6	6	0	6300	6300	0
8/17/2024 21:58	66703	STRA_T1	0	0	0	0	0	0	-0.69	-0.75	0	0	0	0	0	0
8/17/2024 21:58	64204	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
8/17/2024 21:58	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 21:58	46504	LOHA_T1	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
8/17/2024 21:58	64902	MILL_T2	0	0	0	0	0	0	-0.94	-0.99	1	1	0	900	900	0
8/17/2024 21:58	64201	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
8/17/2024 21:58	67201	TEHI_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
8/17/2024 21:58	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 21:59	65603	QVIL_T2	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
8/17/2024 21:59	26401	INOR_T1	1	2	1	8.8	9.7	0.9	0	0	0	0	0	0	0	0
8/17/2024 21:59	26402	INOR_T1	0	43	43	0	0.22	0.22	-1.18	-1.16	0	0	0	0	0	0
8/17/2024 21:59	64101	REFR_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
8/17/2024 21:59	63501	HEID_TBK1-2	55	55	0	1.9	1.63	-0.27	-0.18	-0.19	1	1	0	900	900	0
8/17/2024 21:59	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2024 21:59	16301	ALPA_T1	0	0	0	0	0	0	-3.8	-3.97	0	0	0	0	0	0
8/17/2024 22:00	23403	HONE_T1	173	168	-5	0.22	0.22	0	0	0	0	0	0	0	0	0
8/17/2024 22:00	64101	REFR_T1	0	0	0	0	0	0	0.35	0.42	0	0	0	0	0	0
8/17/2024 22:00	21504	CEAV_T1	0	0	0	0	0	0	0.69	0.66	1	1	0	1200	1200	0
8/17/2024 22:00	23404	HONE_T1	115	89	-26	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
8/17/2024 22:01	46002	BERW_T2	0	0	0	0	0	0	-1.2	-1.17	1	1	0	900	900	0
8/17/2024 22:01	16301	ALPA_T1	0	0	0	0	0	0	-1.9	-1.98	0	0	0	0	0	0
8/17/2024 22:02	62102	ELAN_T1	0	0	0	0	0	0	0.85	0.85	0	0	0	0	0	0
8/17/2024 22:03	46501	LOHA_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/17/2024 22:03	45602	WOOL_T1	25	14	-11	0.34	0.29	-0.05	0.18	0.17	0	0	0	0	0	0
8/17/2024 22:03	46506	LOHA_T1	1	3	2	0.1	0.13	0.03	-3.87	-3.87	4	4	0	4200	4200	0
8/17/2024 22:03	46504	LOHA_T1	2	2	0	0.65	0.95	0.3	0	0	0	0	0	0	0	0
8/17/2024 22:03	64101	REFR_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
8/17/2024 22:04	21501	CEAV_T2	0	0	0	0	0	0	0.25	0.21	1	1	0	1200	1200	0
8/17/2024 22:04	64203	KINZ_T1	0	0	0	0	0	0	-0.27	-0.22	1	1	0	600	600	0
8/17/2024 22:04	64201	KINZ_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
8/17/2024 22:04	64204	KINZ_T1	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
8/17/2024 22:04	64202	KINZ_T1	3	2	-1	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
8/17/2024 22:04	63304	GREE_T1	0	0	0	0	0	0	-1.36	-1.36	0	0	0	0	0	0
8/17/2024 22:04	63305	GREE_T1	7	11	4	0.19	0.34	0.15	0	0	0	0	0	0	0	0
8/17/2024 22:04	66703	STRA_T1	0	2	2	0	0.2	0.2	-0.69	-0.75	0	0	0	0	0	0
8/17/2024 22:46	12002	HATF_T1	0	6	6	0	0.1	0.1	-1.42	-1.44	1	1	0	1200	1200	0
8/17/2024 22:46	12005	HATF_T1	4	5	1	0.38	0.48	0.1	0	0	0	0	0	0	0	0
8/18/2024 0:18	46402	FLEM_T2	0	0	0	0	0	0	-0.54	-0.51	0	0	0	0	0	0
8/18/2024 8:18	12006	HATF_T1	0	0	0	0	0	0	0.49	0.56	0	0	0	0	0	0
8/18/2024 8:34	64201	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
8/18/2024 8:34	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/18/2024 8:34	64204	KINZ_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
8/18/2024 8:34	64203	KINZ_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
8/18/2024 8:37	44203	POIN_T2	0	0	0	0	0	0	-0.69	-0.38	2	2	0	1800	1800	0
8/18/2024 8:57	17802	GILB_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
8/18/2024 8:59	63501	HEID_TBK1-2	55	54	-1	1.35	1.46	0.11	-0.22	-0.22	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/18/2024 8:59	65903	SAKR_T2	0	0	0	0	0	0	-1.18	-1.17	3	3	0	2100	2100	0
8/18/2024 8:59	65901	SAKR_T2	1	2	1	8	8.2	0.2	0	0	0	0	0	0	0	0
8/18/2024 9:11	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 9:20	44201	POIN_T1	0	0	0	0	0	0	-1.84	-1.81	1	1	0	1200	1200	0
8/18/2024 9:21	44201	POIN_T1	0	0	0	0	0	0	-1.81	-1.71	1	1	0	1200	1200	0
8/18/2024 9:21	40901	JESH_T1	1	3	2	2.3	2.3	0	0	0	0	0	0	0	0	0
8/18/2024 9:21	40902	JESH_T1	0	0	0	0	0	0	-0.74	-0.69	0	0	0	0	0	0
8/18/2024 9:22	40902	JESH_T1	0	0	0	0	0	0	-0.74	-0.69	0	0	0	0	0	0
8/18/2024 9:22	40901	JESH_T1	1	3	2	2.3	2.3	0	0	0	0	0	0	0	0	0
8/18/2024 9:35	13303	ORVI_T1	0	0	0	0	0	0	0.99	0.96	0	0	0	0	0	0
8/18/2024 9:37	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 9:53	67502	WEWI_T2	0	0	0	0	0	0	-1.17	-1.18	1	1	0	900	900	0
8/18/2024 9:53	67503	WEWI_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
8/18/2024 10:00	17802	GILB_T1	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
8/18/2024 10:00	67503	WEWI_T2	1	1	0	5.9	5.6	-0.3	0.11	0.1	0	0	0	0	0	0
8/18/2024 10:00	16301	ALPA_T1	0	0	0	0	0	0	-1.76	-1.77	0	0	0	0	0	0
8/18/2024 10:09	44301	BEAV_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
8/18/2024 10:10	21501	CEAV_T2	0	0	0	0	0	0	0.95	0.76	1	1	0	1200	1200	0
8/18/2024 10:11	45501	DERR_T2	0	0	0	0	0	0	0.4	0.47	1	1	0	600	600	0
8/18/2024 10:13	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 10:13	45501	DERR_T2	0	0	0	0	0	0	0.81	0.93	2	2	0	1200	1200	0
8/18/2024 10:14	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 10:14	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 10:14	21206	ECAR_T2	2	6	4	3.65	2.73	-0.92	0.12	0.12	0	0	0	0	0	0
8/18/2024 10:15	63501	HEID_TBK1-2	55	55	0	2.05	1.93	-0.12	-0.18	-0.17	1	1	0	900	900	0
8/18/2024 10:16	64902	MILL_T2	0	0	0	0	0	0	-1	-0.93	1	1	0	900	900	0
8/18/2024 10:16	21206	ECAR_T2	3	8	5	2.73	1.53	-1.2	0.12	0.12	0	0	0	0	0	0
8/18/2024 10:16	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 10:16	63501	HEID_TBK1-2	55	55	0	2.05	1.93	-0.12	-0.18	-0.17	1	1	0	900	900	0
8/18/2024 10:17	25503	MADI_T1	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
8/18/2024 10:17	25501	MADI_T1	3	3	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
8/18/2024 10:19	64204	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/18/2024 10:19	64902	MILL_T2	0	0	0	0	0	0	-1	-0.93	1	1	0	900	900	0
8/18/2024 10:19	64203	KINZ_T1	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
8/18/2024 10:20	65205	PRIN_T1	1	1	0	1.7	1.9	0.2	0	0	0	0	0	0	0	0
8/18/2024 10:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 10:23	44201	POIN_T1	0	0	0	0	0	0	-1.73	-1.56	1	1	0	1200	1200	0
8/18/2024 10:29	11102	EGYP_T1	1	1	0	1.2	1.6	0.4	0	0	0	0	0	0	0	0
8/18/2024 10:29	11104	EGYP_T1	3	7	4	0.37	0.77	0.4	0	0	0	0	0	0	0	0
8/18/2024 10:29	11103	EGYP_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
8/18/2024 10:29	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 10:31	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 10:31	11103	EGYP_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
8/18/2024 10:31	63304	GREE_T1	0	0	0	0	0	0	-1.36	-1.36	0	0	0	0	0	0
8/18/2024 10:31	11104	EGYP_T1	7	7	0	0.77	0.41	-0.36	0	0	0	0	0	0	0	0
8/18/2024 10:31	11102	EGYP_T1	1	1	0	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
8/18/2024 10:32	63304	GREE_T1	0	0	0	0	0	0	-1.36	-1.36	0	0	0	0	0	0
8/18/2024 10:35	22701	MINO_T1	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
8/18/2024 10:36	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 10:38	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 10:44	21206	ECAR_T2	6	8	2	1.52	2.23	0.71	0	0	0	0	0	0	0	0
8/18/2024 10:44	21204	ECAR_T2	1	1	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
8/18/2024 10:48	64902	MILL_T2	0	0	0	0	0	0	-0.99	-1	1	1	0	900	900	0
8/18/2024 10:48	64305	LINC_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
8/18/2024 10:52	42802	SELI_T1	0	0	0	0	0	0	-3.09	-2.87	3	3	0	2700	2700	0
8/18/2024 10:53	43304	WATS_T2	0	0	0	0	0	0	-0.85	-0.89	0	0	0	0	0	0
8/18/2024 10:53	42802	SELI_T1	0	0	0	0	0	0	-1.03	-0.96	1	1	0	900	900	0
8/18/2024 10:54	46001	BERW_T1	0	1	1	0	0	0	-1.89	-1.81	0	0	0	0	0	0
8/18/2024 10:55	46001	BERW_T1	0	1	1	0	0	0	-1.89	-1.81	0	0	0	0	0	0
8/18/2024 10:57	16006	DORN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 10:57	16002	DORN_T2	1	0	-1	0.1	0	-0.1	-0.36	-0.29	1	1	0	1200	1200	0
8/18/2024 10:59	46801	HEPB_T2	0	0	0	0	0	0	0.86	0.88	0	0	0	0	0	0
8/18/2024 11:00	46801	HEPB_T2	0	2	2	0	0.15	0.15	0.86	0.88	0	0	0	0	0	0
8/18/2024 11:00	41202	KENM_T2	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
8/18/2024 11:01	66302	MCGO_T2	0	0	0	0	0	0	-1.29	-1.4	1	1	0	600	600	0
8/18/2024 11:02	46501	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/18/2024 11:02	46801	HEPB_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/18/2024 11:02	12606	MACA_T1	0	0	0	0	0	0	0.09	0.18	1	1	0	900	900	0
8/18/2024 11:02	46803	HEPB_T2	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
8/18/2024 11:02	64204	KINZ_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/18/2024 11:02	63804	HEMP_T1	1	1	0	6.2	6.2	0	-0.1	-0.41	0	0	0	0	0	0
8/18/2024 11:02	46502	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 11:02	64203	KINZ_T1	0	0	0	0	0	0	0.49	-0.15	0	1	1	0	600	600
8/18/2024 11:02	43202	MVIL_T2	0	0	0	0	0	0	-0.89	-0.87	0	0	0	0	0	0
8/18/2024 11:02	46506	LOHA_T1	0	0	0	0	0	0	-1.6	-1.57	2	2	0	2400	2400	0
8/18/2024 11:03	64204	KINZ_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/18/2024 11:03	64203	KINZ_T1	0	0	0	0	0	0	0.49	-0.15	0	1	1	0	600	600
8/18/2024 11:04	64203	KINZ_T1	0	0	0	0	0	0	0.49	-0.15	0	1	1	0	600	600
8/18/2024 11:04	64204	KINZ_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/18/2024 11:05	43202	MVIL_T2	0	0	0	0	0	0	-0.89	-0.87	0	0	0	0	0	0
8/18/2024 11:05	46501	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/18/2024 11:05	46506	LOHA_T1	0	0	0	0	0	0	-0.8	-0.79	1	1	0	1200	1200	0
8/18/2024 11:05	46502	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 11:09	42802	SELI_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	900	900	0
8/18/2024 11:11	61303	EARL_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
8/18/2024 11:14	61303	EARL_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
8/18/2024 11:16	61301	EARL_T1	0	0	0	0	0	0	-0.38	-0.37	1	1	0	900	900	0
8/18/2024 11:22	44902	SCOT_T2	0	0	0	0	0	0	-0.63	-0.57	0	0	0	0	0	0
8/18/2024 11:23	42701	AUGU_T1	3	5	2	0.53	0.3	-0.23	0	0	2	2	0	1800	1800	0
8/18/2024 11:27	42701	AUGU_T1	3	5	2	0.53	0.3	-0.23	0	0	2	2	0	1800	1800	0
8/18/2024 11:29	10801	CHHI_T1	0	0	0	0	0	0	-1.46	-1.5	3	3	0	2100	2100	0
8/18/2024 11:29	62104	ELAN_T1	0	0	0	0	0	0	0.12	0.1	2	2	0	1500	1500	0
8/18/2024 11:33	63403	HONY_T2	0	0	0	0	0	0	-0.4	-0.39	1	1	0	600	600	0
8/18/2024 11:38	47401	PENS_T1	1	0	-1	0.1	0	-0.1	1.38	1.38	0	0	0	0	0	0
8/18/2024 11:38	47403	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/18/2024 11:41	60801	BUCK_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
8/18/2024 11:41	13905	SEID_T1	0	0	0	0	0	0	-0.66	-0.6	1	1	0	1200	1200	0
8/18/2024 11:42	64602	LEOL_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
8/18/2024 11:51	44201	POIN_T1	0	0	0	0	0	0	-1.6	-1.55	1	1	0	1200	1200	0
8/18/2024 11:54	14702	TREX_T2	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
8/18/2024 11:54	67203	TEHI_T1	0	0	0	0	0	0	1.03	1.07	1	1	0	900	900	0
8/18/2024 11:55	14302	SUMN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/18/2024 11:55	14303	SUMN_T1	3	4	1	7.5	7.6	0.1	0	0	0	0	0	0	0	0
8/18/2024 11:55	14308	SUMN_T1	0	1	1	0	0.2	0.2	0.35	0.35	0	0	0	0	0	0
8/18/2024 11:55	14301	SUMN_T1	0	9	9	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 11:56	43304	WATS_T2	0	0	0	0	0	0	-0.8	-0.78	0	0	0	0	0	0
8/18/2024 11:57	14702	TREX_T2	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
8/18/2024 11:57	10801	CHHI_T1	0	0	0	0	0	0	-1.46	-1.5	3	3	0	2100	2100	0
8/18/2024 11:59	44801	EDAN_T2	4	1	-3	0.25	0.8	0.55	-1.43	-1.41	0	0	0	0	0	0
8/18/2024 11:59	11804	FRAN_T1	0	2	2	0	0.1	0.1	1.04	0.98	0	0	0	0	0	0
8/18/2024 12:03	23403	HONE_T1	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
8/18/2024 12:07	66505	SMAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 12:07	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 12:12	61702	ELIZ_T2	0	0	0	0	0	0	-1.59	-1.6	2	2	0	1500	1500	0
8/18/2024 12:21	47403	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/18/2024 12:21	47401	PENS_T1	1	0	-1	0.4	0	-0.4	1.43	1.48	0	0	0	0	0	0
8/18/2024 12:23	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 12:23	66505	SMAN_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/18/2024 12:25	60404	DILL_T2	0	0	0	0	0	0	-0.41	-0.41	2	2	0	2400	2400	0
8/18/2024 12:26	44301	BEAV_T2	3	6	3	0.8	0.2	-0.6	-0.64	-0.63	1	1	0	600	600	0
8/18/2024 12:29	46204	DANV_T2	2	3	1	1.85	0	-1.85	0	0	0	0	0	0	0	0
8/18/2024 12:29	46206	DANV_T2	1	3	2	1.3	1	-0.3	0	0	0	0	0	0	0	0
8/18/2024 12:29	46203	DANV_T2	0	1	1	0	0	0	-4.61	-4.67	0	0	0	0	0	0
8/18/2024 12:29	44301	BEAV_T2	3	6	3	0.8	0.2	-0.6	-0.64	-0.63	1	1	0	600	600	0
8/18/2024 12:30	46206	DANV_T2	1	4	3	1	1.8	0.8	0	0	0	0	0	0	0	0
8/18/2024 12:30	46203	DANV_T2	0	1	1	0	0.2	0.2	-1.54	-1.56	0	0	0	0	0	0
8/18/2024 12:30	60404	DILL_T2	0	0	0	0	0	0	-0.21	-0.2	1	1	0	1200	1200	0
8/18/2024 12:30	46204	DANV_T2	3	0	-3	1	0	-1	0	0	0	0	0	0	0	0
8/18/2024 12:32	13501	MCMI_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
8/18/2024 12:41	14702	TREX_T2	0	0	0	0	0	0	0.85	0.89	0	0	0	0	0	0
8/18/2024 12:46	62102	ELAN_T1	0	0	0	0	0	0	1.07	1.19	0	0	0	0	0	0
8/18/2024 12:47	62102	ELAN_T1	0	0	0	0	0	0	1.07	1.19	0	0	0	0	0	0
8/18/2024 12:55	46206	DANV_T2	3	5	2	1.6	1.1	-0.5	0	0	0	0	0	0	0	0
8/18/2024 12:55	46203	DANV_T2	1	1	0	0.2	0	-0.2	-1.56	-1.53	0	0	0	0	0	0
8/18/2024 12:57	11202	ELHE_T2	0	0	0	0	0	0	0.31	0.32	1	1	0	1200	1200	0
8/18/2024 13:07	15201	SFAR_T1	0	0	0	0	0	0	0.5	0.52	2	2	0	1800	1800	0
8/18/2024 13:11	67503	WEWI_T2	1	1	0	5.8	5.6	-0.2	-0.46	-0.46	0	0	0	0	0	0
8/18/2024 13:13	66703	STRA_T1	0	0	0	0	0	0	-0.39	-0.44	0	0	0	0	0	0
8/18/2024 13:13	11804	FRAN_T1	9	30	21	0.24	0.53	0.29	1.05	1.24	0	0	0	0	0	0
8/18/2024 13:16	12701	MACU_T1	0	0	0	0	0	0	-0.85	-0.83	1	1	0	1200	1200	0
8/18/2024 13:16	11507	FREE_T2	5	6	1	1	0.3	-0.7	-0.1	-0.09	0	0	0	0	0	0
8/18/2024 13:16	64701	LITI_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
8/18/2024 13:18	12701	MACU_T1	0	0	0	0	0	0	-0.85	-0.83	1	1	0	1200	1200	0
8/18/2024 13:18	64701	LITI_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
8/18/2024 13:19	12704	MACU_T1	0	0	0	0	0	0	-0.92	-0.82	1	1	0	600	600	0
8/18/2024 13:21	42901	MIDD_T2	2	3	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/18/2024 13:21	60502	NMAN_T2	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
8/18/2024 13:21	42902	MIDD_T2	1	10	9	2	2	0	-0.93	-0.98	1	1	0	600	600	0
8/18/2024 13:23	44905	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 13:24	42902	MIDD_T2	1	10	9	2	2	0	-0.93	-0.98	1	1	0	600	600	0
8/18/2024 13:24	42901	MIDD_T2	2	3	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/18/2024 13:24	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 13:24	44203	POIN_T2	0	2	2	0	0	0	0.14	0.11	1	1	0	900	900	0
8/18/2024 13:25	42901	MIDD_T2	2	3	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/18/2024 13:25	16103	BING_T2	3	1	-2	1.03	0	-1.03	-1.24	-1.19	2	2	0	1500	1500	0
8/18/2024 13:25	42902	MIDD_T2	1	10	9	2	2	0	-0.93	-0.98	1	1	0	600	600	0
8/18/2024 13:28	60101	COCA_T1	0	0	0	0	0	0	1.27	1.24	2	2	0	1200	1200	0
8/18/2024 13:28	46001	BERW_T1	2	2	0	0.85	1.3	0.45	-1.74	-1.74	0	0	0	0	0	0
8/18/2024 13:29	16102	BING_T2	0	0	0	0	0	0	-0.42	-0.28	1	1	0	1200	1200	0
8/18/2024 13:29	60101	COCA_T1	0	0	0	0	0	0	1.27	1.24	2	2	0	1200	1200	0
8/18/2024 13:29	16103	BING_T2	3	1	-2	1.03	0	-1.03	0	0	0	0	0	0	0	0
8/18/2024 13:30	47001	HUGH_T2	3	3	0	6.13	7.97	1.84	-1.31	-1.31	1	1	0	900	900	0
8/18/2024 13:30	47002	HUGH_T2	2	1	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/18/2024 13:33	47001	HUGH_T2	3	3	0	6.13	7.97	1.84	-1.31	-1.31	1	1	0	900	900	0
8/18/2024 13:33	47002	HUGH_T2	2	1	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/18/2024 13:36	42901	MIDD_T2	1	5	4	0.2	1.07	0.87	0	0	0	0	0	0	0	0
8/18/2024 13:36	42902	MIDD_T2	9	4	-5	0.74	3.6	2.86	-0.98	-0.96	1	1	0	600	600	0
8/18/2024 13:39	42901	MIDD_T2	1	5	4	0.2	1.07	0.87	0	0	0	0	0	0	0	0
8/18/2024 13:39	42902	MIDD_T2	9	4	-5	0.74	3.6	2.86	-0.98	-0.96	1	1	0	600	600	0
8/18/2024 13:40	42901	MIDD_T2	1	5	4	0.2	1.07	0.87	0	0	0	0	0	0	0	0
8/18/2024 13:40	42902	MIDD_T2	9	4	-5	0.74	3.6	2.86	-1.97	-1.93	2	2	0	1200	1200	0
8/18/2024 13:41	16102	BING_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 13:41	16101	BING_T2	0	0	0	0	0	0	1.05	1.1	0	0	0	0	0	0
8/18/2024 13:41	16103	BING_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/18/2024 13:50	47401	PENS_T1	1	0	-1	0.6	0	-0.6	4.6	4.56	0	0	0	0	0	0
8/18/2024 13:50	60502	NMAN_T2	0	21	21	0	0.2	0.2	-0.02	-0.85	0	0	0	0	0	0
8/18/2024 13:50	47403	PENS_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/18/2024 13:52	42902	MIDD_T2	3	2	-1	1.43	3.3	1.87	-0.96	-0.97	1	1	0	600	600	0
8/18/2024 13:52	42901	MIDD_T2	3	5	2	1.07	0.77	-0.3	0	0	0	0	0	0	0	0
8/18/2024 13:52	23102	MOSC_T2	0	0	0	0	0	0	-0.4	-0.34	2	2	0	1800	1800	0
8/18/2024 13:53	17802	GILB_T1	2	2	0	0.45	0.7	0.25	0.39	0.42	0	0	0	0	0	0
8/18/2024 13:53	42901	MIDD_T2	3	5	2	1.07	0.77	-0.3	0	0	0	0	0	0	0	0
8/18/2024 13:53	42902	MIDD_T2	3	2	-1	1.43	3.3	1.87	-0.96	-0.97	1	1	0	600	600	0
8/18/2024 13:57	14702	TREX_T2	0	0	0	0	0	0	0.98	0.94	0	0	0	0	0	0
8/18/2024 13:58	61701	ELIZ_T1	1	2	1	1.5	1	-0.5	0	0	0	0	0	0	0	0
8/18/2024 13:58	14705	TREX_T1	1	1	0	0.6	0	-0.6	0.38	0.36	0	0	0	0	0	0
8/18/2024 13:58	61703	ELIZ_T1	0	0	0	0	0	0	-2.46	-2.42	2	2	0	2100	2100	0
8/18/2024 13:59	61701	ELIZ_T1	1	2	1	1.5	1	-0.5	0	0	0	0	0	0	0	0
8/18/2024 13:59	61703	ELIZ_T1	0	0	0	0	0	0	-2.46	-2.42	2	2	0	2100	2100	0
8/18/2024 14:00	61701	ELIZ_T1	2	1	-1	1	1.2	0.2	0	0	0	0	0	0	0	0
8/18/2024 14:00	46501	LOHA_T1	2	3	1	0.65	1.1	0.45	0	0	0	0	0	0	0	0
8/18/2024 14:00	61703	ELIZ_T1	0	0	0	0	0	0	-2.46	-2.42	2	2	0	2100	2100	0
8/18/2024 14:00	46506	LOHA_T1	0	2	2	0	0.3	0.3	-1.76	-1.76	1	1	0	1200	1200	0
8/18/2024 14:01	46501	LOHA_T1	2	3	1	0.65	1.1	0.45	0	0	0	0	0	0	0	0
8/18/2024 14:01	46506	LOHA_T1	0	2	2	0	0.3	0.3	-1.76	-1.76	1	1	0	1200	1200	0
8/18/2024 14:01	61701	ELIZ_T1	2	1	-1	1	1.2	0.2	0	0	0	0	0	0	0	0
8/18/2024 14:01	61703	ELIZ_T1	0	0	0	0	0	0	-2.46	-2.42	2	2	0	2100	2100	0
8/18/2024 14:04	46506	LOHA_T1	0	2	2	0	0.3	0.3	-3.52	-3.53	2	2	0	2400	2400	0
8/18/2024 14:04	64101	REFR_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
8/18/2024 14:04	46501	LOHA_T1	2	3	1	0.65	1.1	0.45	0	0	0	0	0	0	0	0
8/18/2024 14:05	64101	REFR_T1	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
8/18/2024 14:06	64101	REFR_T1	0	0	0	0	0	0	1.51	1.53	0	0	0	0	0	0
8/18/2024 14:07	64101	REFR_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
8/18/2024 14:07	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 14:08	64101	REFR_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
8/18/2024 14:09	64101	REFR_T1	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
8/18/2024 14:12	10801	CHHI_T1	3	4	1	0.2	0.3	0.1	-1.25	-1.3	3	3	0	2100	2100	0
8/18/2024 14:13	10805	CHHI_T2	1	11	10	8.6	8.9	0.3	-0.57	-0.55	1	1	0	600	600	0
8/18/2024 14:18	26402	INOR_T1	0	1	1	0	0.2	0.2	-1.51	-1.55	1	1	0	600	600	0
8/18/2024 14:18	23102	MOSC_T2	0	0	0	0	0	0	-0.34	-0.11	2	2	0	1800	1800	0
8/18/2024 14:18	26401	INOR_T1	1	1	0	6.3	6.8	0.5	0	0	0	0	0	0	0	0
8/18/2024 14:20	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 14:20	17805	GILB_T2	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
8/18/2024 14:22	17805	GILB_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
8/18/2024 14:24	67604	WARW_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
8/18/2024 14:25	13503	MCMI_T2	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
8/18/2024 14:26	42701	AUGU_T1	58	59	1	0.76	0.71	-0.05	0	0	2	2	0	1800	1800	0
8/18/2024 14:36	65402	MARI_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/18/2024 14:36	65401	MARI_T1	15	12	-3	2.09	1.78	-0.31	0	0	0	0	0	0	0	0
8/18/2024 14:40	44301	BEAV_T2	0	3	3	0	0.63	0.63	-1.31	-1.29	1	1	0	600	600	0
8/18/2024 14:43	14703	TREX_T2	1	1	0	2.6	1.5	-1.1	0	0	0	0	0	0	0	0
8/18/2024 14:43	44301	BEAV_T2	0	3	3	0	0.63	0.63	-1.31	-1.29	1	1	0	600	600	0
8/18/2024 14:43	14702	TREX_T2	0	0	0	0	0	0	1.01	1.06	0	0	0	0	0	0
8/18/2024 14:48	12704	MACU_T1	0	0	0	0	0	0	-0.77	-0.76	1	1	0	600	600	0
8/18/2024 14:51	66504	SMAN_T2	0	1	1	0	0	0	-1.73	-1.54	2	2	0	2400	2400	0
8/18/2024 14:52	66504	SMAN_T2	0	1	1	0	0	0	-0.86	-0.77	1	1	0	1200	1200	0
8/18/2024 14:53	49803	UNIV_T1	1	1	0	6.6	6.2	-0.4	-1.55	-1.56	0	0	0	0	0	0
8/18/2024 14:53	49804	UNIV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/18/2024 14:54	65804	RTWN_T1	0	0	0	0	0	0	0.81	0.82	1	1	0	600	600	0
8/18/2024 14:55	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 14:55	66505	SMAN_T2	0	0	0	0	0	0	0.18	0.27	3	3	0	2100	2100	0
8/18/2024 15:05	15603	NSTR_T2	0	0	0	0	0	0	-0.11	-0.15	0	0	0	0	0	0
8/18/2024 15:05	15602	NSTR_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/18/2024 15:08	49803	UNIV_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
8/18/2024 15:08	49804	UNIV_T1	1	0	-1	0.2	0	-0.2	1.27	1.24	0	0	0	0	0	0
8/18/2024 15:09	44301	BEAV_T2	3	3	0	0.63	0.6	-0.03	-1.27	-1.21	1	1	0	600	600	0
8/18/2024 15:17	61801	EELI_T2	15	8	-7	0.55	2.1	1.55	0	0	0	0	0	0	0	0
8/18/2024 15:17	61802	EELI_T2	8	8	0	2.2	1.75	-0.45	-0.35	-0.46	0	0	0	0	0	0
8/18/2024 15:19	64101	REFR_T1	0	0	0	0	0	0	0.45	0.51	0	0	0	0	0	0
8/18/2024 15:19	12701	MACU_T1	0	0	0	0	0	0	-0.78	-0.76	1	1	0	1200	1200	0
8/18/2024 15:28	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 15:33	12803	MICK_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/18/2024 15:33	12801	MICK_T1	0	0	0	0	0	0	-0.55	-0.58	1	1	0	600	600	0
8/18/2024 15:38	42902	MIDD_T2	0	4	4	0	0.68	0.68	-1.04	-1.01	1	1	0	600	600	0
8/18/2024 15:38	42903	MIDD_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/18/2024 15:41	12305	LANA_T2	3	3	0	0.63	0.9	0.27	0	0	0	0	0	0	0	0
8/18/2024 15:41	12304	LANA_T2	10	8	-2	0.71	0.64	-0.07	0	0	0	0	0	0	0	0
8/18/2024 15:41	12302	LANA_T2	0	0	0	0	0	0	-1.97	-2	3	3	0	2700	2700	0
8/18/2024 15:41	12301	LANA_T2	3	3	0	1.73	2.8	1.07	0	0	0	0	0	0	0	0
8/18/2024 15:41	67503	WEWI_T2	1	3	2	3.8	3.6	-0.2	-0.28	-0.28	0	0	0	0	0	0
8/18/2024 15:48	65001	NEFF_T2	0	0	0	0	0	0	-0.79	-0.59	1	1	0	1200	1200	0
8/18/2024 15:52	42902	MIDD_T2	2	5	3	0.45	0.68	0.23	0	0	0	0	0	0	0	0
8/18/2024 15:52	64101	REFR_T1	0	0	0	0	0	0	0.49	-0.07	0	0	0	0	0	0
8/18/2024 15:52	42903	MIDD_T2	0	2	2	0	0.25	0.25	0.09	0.05	0	0	0	0	0	0
8/18/2024 15:56	14703	TREX_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 15:56	64101	REFR_T1	0	0	0	0	0	0	0.49	-0.07	0	0	0	0	0	0
8/18/2024 15:56	14702	TREX_T2	0	0	0	0	0	0	1.06	1.02	0	0	0	0	0	0
8/18/2024 16:00	66701	STRA_T1	0	0	0	0	0	0	0.45	0.55	1	1	0	600	600	0
8/18/2024 16:00	66703	STRA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/18/2024 16:02	46503	LOHA_T1	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
8/18/2024 16:02	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 16:02	46504	LOHA_T1	2	2	0	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
8/18/2024 16:04	46503	LOHA_T1	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
8/18/2024 16:04	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 16:04	46504	LOHA_T1	2	2	0	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
8/18/2024 16:06	47401	PENS_T1	2	4	2	0.4	1	0.6	0.63	0.51	0	0	0	0	0	0
8/18/2024 16:06	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 16:06	47403	PENS_T1	6	1	-5	0.43	0.8	0.37	0	0	0	0	0	0	0	0
8/18/2024 16:06	66505	SMAN_T2	0	0	0	0	0	0	-0.06	-0.01	3	4	1	1700	2300	600
8/18/2024 16:07	47403	PENS_T1	6	1	-5	0.43	0.8	0.37	0	0	0	0	0	0	0	0
8/18/2024 16:07	66505	SMAN_T2	0	0	0	0	0	0	-0.06	-0.01	4	4	0	2300	2300	0
8/18/2024 16:07	47401	PENS_T1	2	4	2	0.4	1	0.6	0.63	0.51	0	0	0	0	0	0
8/18/2024 16:07	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 16:10	44203	POIN_T2	2	9	7	0.35	0.2	-0.15	0.01	0.06	1	1	0	900	900	0
8/18/2024 16:10	44202	POIN_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/18/2024 16:16	13503	MCMI_T2	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
8/18/2024 16:20	25501	MADI_T1	3	3	0	1.03	1.67	0.64	0	0	0	0	0	0	0	0
8/18/2024 16:20	25503	MADI_T1	0	0	0	0	0	0	-0.6	-0.51	0	0	0	0	0	0
8/18/2024 16:25	14802	TREI_T2	0	0	0	0	0	0	0.9	0.92	0	0	0	0	0	0
8/18/2024 16:25	14801	TREI_T2	13	6	-7	0.49	0.45	-0.04	0	0	0	0	0	0	0	0
8/18/2024 16:26	14802	TREI_T2	0	0	0	0	0	0	0.9	0.92	0	0	0	0	0	0
8/18/2024 16:26	14801	TREI_T2	13	6	-7	0.49	0.45	-0.04	0	0	0	0	0	0	0	0
8/18/2024 16:28	61703	ELIZ_T1	3	15	12	0.17	0.28	0.11	0	0	0	0	0	0	0	0
8/18/2024 16:28	61701	ELIZ_T1	2	5	3	0.3	0.27	-0.03	0.51	0.58	0	0	0	0	0	0
8/18/2024 16:30	61701	ELIZ_T1	4	3	-1	0.5	0.23	-0.27	0.51	0.58	0	0	0	0	0	0
8/18/2024 16:30	61703	ELIZ_T1	13	14	1	0.25	0.29	0.04	0	0	0	0	0	0	0	0
8/18/2024 16:31	66703	STRA_T1	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
8/18/2024 16:38	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.08	0	0	0	0	0	0
8/18/2024 16:45	10502	CRAC_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/18/2024 16:45	10504	CRAC_T1	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
8/18/2024 16:54	67605	WARW_T1	1	1	0	0.3	0.7	0.4	-0.68	-0.67	0	0	0	0	0	0
8/18/2024 16:54	42701	AUGU_T1	46	67	21	0.44	0.77	0.33	0	0	2	2	0	1800	1800	0
8/18/2024 16:57	67605	WARW_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/18/2024 16:57	67603	WARW_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
8/18/2024 17:00	66703	STRA_T1	0	0	0	0	0	0	-0.15	-0.34	0	0	0	0	0	0
8/18/2024 17:02	66703	STRA_T1	0	0	0	0	0	0	-0.15	-0.34	0	0	0	0	0	0
8/18/2024 17:03	13503	MCMI_T2	0	0	0	0	0	0	-0.7	-0.74	0	0	0	0	0	0
8/18/2024 17:05	13503	MCMI_T2	0	0	0	0	0	0	-0.7	-0.74	0	0	0	0	0	0
8/18/2024 17:07	61703	ELIZ_T1	12	31	19	0.53	0.37	-0.16	0	0	0	0	0	0	0	0
8/18/2024 17:07	60502	NMAN_T2	0	0	0	0	0	0	-0.49	-0.44	0	0	0	0	0	0
8/18/2024 17:07	61701	ELIZ_T1	3	4	1	0.27	0.15	-0.12	0.56	0.5	0	0	0	0	0	0
8/18/2024 17:09	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 17:14	16006	DORN_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
8/18/2024 17:15	20201	JERM_T1	1	0	-1	0.7	0	-0.7	1.46	1.55	0	0	0	0	0	0
8/18/2024 17:28	61802	EELI_T2	8	8	0	2.3	2.58	0.28	0	0	0	0	0	0	0	0
8/18/2024 17:28	61801	EELI_T2	9	21	12	0.51	0.6	0.09	0	0	0	0	0	0	0	0
8/18/2024 17:31	46901	MNTG_T2	0	0	0	0	0	0	-0.79	-0.77	1	1	0	1200	1200	0
8/18/2024 17:31	46903	MNTG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/18/2024 17:33	61704	ELIZ_T2	3	7	4	0.63	0.33	-0.3	0	0	0	0	0	0	0	0
8/18/2024 17:33	61701	ELIZ_T1	2	9	7	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/18/2024 17:33	61702	ELIZ_T2	35	47	12	0.48	0.29	-0.19	-1.25	-1.27	2	2	0	1500	1500	0
8/18/2024 17:33	61703	ELIZ_T1	29	42	13	0.51	0.41	-0.1	0	0	0	0	0	0	0	0
8/18/2024 17:34	13503	MCMI_T2	0	0	0	0	0	0	-0.73	-0.75	0	0	0	0	0	0
8/18/2024 17:39	65602	QVIL_T2	1	2	1	1	1.1	0.1	0	0	0	0	0	0	0	0
8/18/2024 17:39	65601	QVIL_T2	1	2	1	0.3	0	-0.3	-0.18	-0.11	1	1	0	900	900	0
8/18/2024 17:39	65604	QVIL_T2	21	21	0	0.51	0.46	-0.05	0	0	0	0	0	0	0	0
8/18/2024 17:46	61304	EARL_T1	0	0	0	0	0	0	0.01	0	1	1	0	600	600	0
8/18/2024 17:46	61303	EARL_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/18/2024 17:46	63602	LETO_T1	0	0	0	0	0	0	-0.2	-0.21	1	1	0	600	600	0
8/18/2024 17:50	61303	EARL_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/18/2024 17:50	61304	EARL_T1	0	0	0	0	0	0	0.01	0	1	1	0	600	600	0
8/18/2024 18:16	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 18:18	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 18:21	64801	MONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/18/2024 18:21	64802	MONE_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
8/18/2024 18:22	14401	SSLA_T1	2	0	-2	3.3	0	-3.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/18/2024 18:22	14403	SSLA_T1	1	0	-1	0.7	0	-0.7	-0.89	-0.89	2	2	0	1200	1200	0
8/18/2024 18:22	14404	SSLA_T1	12	16	4	0.56	0.49	-0.07	0	0	0	0	0	0	0	0
8/18/2024 18:26	14404	SSLA_T1	12	16	4	0.56	0.49	-0.07	0	0	0	0	0	0	0	0
8/18/2024 18:26	14401	SSLA_T1	2	0	-2	3.3	0	-3.3	0	0	0	0	0	0	0	0
8/18/2024 18:26	14403	SSLA_T1	1	0	-1	0.7	0	-0.7	-0.89	-0.89	2	2	0	1200	1200	0
8/18/2024 18:27	14403	SSLA_T1	1	0	-1	0.7	0	-0.7	-0.89	-0.89	2	2	0	1200	1200	0
8/18/2024 18:27	14404	SSLA_T1	12	16	4	0.56	0.49	-0.07	0	0	0	0	0	0	0	0
8/18/2024 18:27	14401	SSLA_T1	2	0	-2	3.3	0	-3.3	0	0	0	0	0	0	0	0
8/18/2024 18:51	43301	WATS_T2	0	0	0	0	0	0	-0.17	-0.15	1	1	0	900	900	0
8/18/2024 18:51	43304	WATS_T2	4	5	1	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
8/18/2024 18:54	13702	SCHN_T1	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
8/18/2024 18:55	13702	SCHN_T1	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
8/18/2024 19:04	22701	MINO_T1	0	0	0	0	0	0	-0.6	-0.59	1	1	0	600	600	0
8/18/2024 19:08	14801	TREI_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
8/18/2024 19:08	14802	TREI_T2	0	0	0	0	0	0	0.84	0.82	0	0	0	0	0	0
8/18/2024 19:17	46602	LACR_T1	1	3	2	0.1	0.23	0.13	-0.74	-0.79	0	0	0	0	0	0
8/18/2024 20:27	65001	NEFF_T2	0	0	0	0	0	0	-0.96	-0.94	1	1	0	1200	1200	0
8/18/2024 20:27	65002	NEFF_T2	0	104	104	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 20:35	13702	SCHN_T1	0	14	14	0	3.1	3.1	0.34	0.15	0	0	0	0	0	0
8/18/2024 20:53	12801	MICK_T1	0	1	1	0	0.6	0.6	0	-0.76	1	1	0	600	600	0
8/18/2024 20:53	10504	CRAC_T1	0	0	0	0	0	0	1.13	1.15	0	0	0	0	0	0
8/18/2024 20:58	46001	BERW_T1	0	3	3	0	0	0	-1.69	-1.75	0	0	0	0	0	0
8/18/2024 20:59	46001	BERW_T1	0	3	3	0	0	0	-1.69	-1.75	0	0	0	0	0	0
8/18/2024 21:04	64201	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/18/2024 21:04	64202	KINZ_T1	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
8/18/2024 21:04	64203	KINZ_T1	0	0	0	0	0	0	-0.79	-0.23	2	1	-1	900	600	-300
8/18/2024 21:04	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
8/18/2024 21:05	64202	KINZ_T1	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
8/18/2024 21:05	66302	MCGO_T2	0	0	0	0	0	0	-1.18	-1.21	1	1	0	600	600	0
8/18/2024 21:05	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
8/18/2024 21:05	64201	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/18/2024 21:05	64203	KINZ_T1	0	0	0	0	0	0	-0.79	-0.23	2	1	-1	900	600	-300
8/18/2024 21:05	66303	MCGO_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/18/2024 21:07	64201	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/18/2024 21:07	64203	KINZ_T1	0	0	0	0	0	0	-0.23	-0.23	1	1	0	600	600	0
8/18/2024 21:07	64202	KINZ_T1	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
8/18/2024 21:07	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
8/18/2024 21:08	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
8/18/2024 21:08	64202	KINZ_T1	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
8/18/2024 21:08	64203	KINZ_T1	0	0	0	0	0	0	-0.23	-0.23	1	1	0	600	600	0
8/18/2024 21:08	64201	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/18/2024 21:10	16102	BING_T2	15	15	0	0.43	0.27	-0.16	0	0	0	0	0	0	0	0
8/18/2024 21:10	16101	BING_T2	0	0	0	0	0	0	0.86	0.82	0	0	0	0	0	0
8/18/2024 21:11	12606	MACA_T1	0	4	4	0	0	0	0.13	0.12	1	1	0	900	900	0
8/18/2024 21:20	26401	INOR_T1	1	1	0	8.8	9.3	0.5	0	0	0	0	0	0	0	0
8/18/2024 21:20	26402	INOR_T1	0	0	0	0	0	0	-1.14	-1.14	0	0	0	0	0	0
8/18/2024 21:26	42701	AUGU_T1	3	1	-2	1.13	1.1	-0.03	0	0	2	2	0	1800	1800	0
8/18/2024 21:27	11103	EGYP_T1	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
8/18/2024 21:27	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 21:27	11104	EGYP_T1	4	1	-3	0.13	0.7	0.57	0	0	0	0	0	0	0	0
8/18/2024 21:28	14306	SUMN_T1	0	13	13	0	0.15	0.15	0	0	0	0	0	0	0	0
8/18/2024 21:28	14308	SUMN_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
8/18/2024 21:28	14303	SUMN_T1	3	3	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
8/18/2024 21:28	42701	AUGU_T1	3	1	-2	1.13	1.1	-0.03	0	0	2	2	0	1800	1800	0
8/18/2024 21:28	61303	EARL_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
8/18/2024 21:30	10801	CHHI_T1	0	0	0	0	0	0	-0.99	-1.03	2	2	0	1500	1500	0
8/18/2024 21:30	61303	EARL_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
8/18/2024 21:31	11103	EGYP_T1	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
8/18/2024 21:31	11102	EGYP_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/18/2024 21:31	11104	EGYP_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
8/18/2024 21:34	66505	SMAN_T2	0	0	0	0	0	0	-0.4	-0.58	6	6	0	4200	4200	0
8/18/2024 21:35	64701	LITI_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
8/18/2024 21:35	10801	CHHI_T1	0	0	0	0	0	0	-0.99	-1.03	2	2	0	1500	1500	0
8/18/2024 21:37	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 21:37	60101	COCA_T1	0	0	0	0	0	0	1.58	1.6	3	3	0	1800	1800	0
8/18/2024 21:37	64602	LEOL_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
8/18/2024 21:37	67605	WARW_T1	1	3	2	0.7	0.37	-0.33	0	0	0	0	0	0	0	0
8/18/2024 21:37	63402	HONY_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/18/2024 21:37	61304	EARL_T1	0	0	0	0	0	0	-0.47	-0.5	1	1	0	600	600	0
8/18/2024 21:37	63403	HONY_T2	0	0	0	0	0	0	-0.76	-0.8	0	0	0	0	0	0
8/18/2024 21:37	67603	WARW_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
8/18/2024 21:38	67203	TEHI_T1	0	0	0	0	0	0	1.13	1.59	1	1	0	900	900	0
8/18/2024 21:38	12704	MACU_T1	0	0	0	0	0	0	-1.2	-1.23	1	1	0	600	600	0
8/18/2024 21:39	66505	SMAN_T2	0	0	0	0	0	0	-0.29	-0.18	3	3	0	2100	2100	0
8/18/2024 21:39	14702	TREX_T2	0	0	0	0	0	0	0.73	0.86	0	0	0	0	0	0
8/18/2024 21:40	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 21:40	11507	FREE_T2	2	0	-2	0.1	0	-0.1	0.69	0.63	0	0	0	0	0	0
8/18/2024 21:40	12701	MACU_T1	0	0	0	0	0	0	-0.99	-1.01	1	1	0	1200	1200	0
8/18/2024 21:40	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 21:41	14702	TREX_T2	0	0	0	0	0	0	1.46	1.72	0	0	0	0	0	0
8/18/2024 21:41	60404	DILL_T2	0	0	0	0	0	0	-0.33	-0.46	1	1	0	1200	1200	0
8/18/2024 21:41	61301	EARL_T1	0	0	0	0	0	0	-0.41	-0.41	1	1	0	900	900	0
8/18/2024 21:42	64701	LITI_T1	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
8/18/2024 21:42	14702	TREX_T2	0	0	0	0	0	0	0.73	0.86	0	0	0	0	0	0
8/18/2024 21:42	60101	COCA_T1	0	0	0	0	0	0	0.53	0.53	1	1	0	600	600	0
8/18/2024 21:42	16006	DORN_T2	0	0	0	0	0	0	-0.18	-0.7	0	0	0	0	0	0
8/18/2024 21:42	63501	HEID_TBK1-2	55	55	0	2.31	1.86	-0.45	-0.07	-0.16	1	1	0	900	900	0
8/18/2024 21:43	16103	BING_T2	0	0	0	0	0	0	-1.59	-1.02	2	1	-1	1500	900	-600
8/18/2024 21:43	14702	TREX_T2	0	0	0	0	0	0	0.73	0.86	0	0	0	0	0	0
8/18/2024 21:43	16102	BING_T2	13	15	2	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
8/18/2024 21:43	20201	JERM_T1	0	0	0	0	0	0	1.4	1.36	0	0	0	0	0	0
8/18/2024 21:43	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 21:46	66703	STRA_T1	0	4	4	0	0.33	0.33	-0.81	-0.85	0	0	0	0	0	0
8/18/2024 21:46	67604	WARW_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
8/18/2024 21:46	67605	WARW_T1	1	3	2	0.8	0.37	-0.43	0	0	0	0	0	0	0	0
8/18/2024 21:46	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 21:46	13905	SEID_T1	0	0	0	0	0	0	-0.71	-0.72	1	1	0	1200	1200	0
8/18/2024 21:46	13503	MCMI_T2	0	0	0	0	0	0	-1.66	-1.65	0	0	0	0	0	0
8/18/2024 21:47	66703	STRA_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
8/18/2024 21:47	66701	STRA_T1	0	0	0	0	0	0	0.34	0.34	1	1	0	600	600	0
8/18/2024 21:47	60404	DILL_T2	0	0	0	0	0	0	-0.33	-0.46	1	1	0	1200	1200	0
8/18/2024 21:48	67605	WARW_T1	1	3	2	0.8	0.37	-0.43	-1.09	-1.11	0	0	0	0	0	0
8/18/2024 21:48	12701	MACU_T1	0	0	0	0	0	0	-0.99	-1.01	1	1	0	1200	1200	0
8/18/2024 21:48	17805	GILB_T2	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
8/18/2024 21:48	62104	ELAN_T1	0	0	0	0	0	0	0.24	0.13	1	1	0	1200	1200	0
8/18/2024 21:48	13501	MCMI_T1	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
8/18/2024 21:48	16002	DORN_T2	0	0	0	0	0	0	-0.33	-0.37	1	1	0	1200	1200	0
8/18/2024 21:49	63304	GREE_T1	0	0	0	0	0	0	-1.31	-1.36	0	0	0	0	0	0
8/18/2024 21:49	63501	HEID_TBK1-2	55	55	0	2.11	1.75	-0.36	-0.07	-0.16	1	1	0	900	900	0
8/18/2024 21:49	63303	GREE_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/18/2024 21:49	63305	GREE_T1	15	11	-4	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
8/18/2024 21:49	10805	CHHI_T2	1	1	0	7.5	7.4	-0.1	-0.79	-0.83	1	1	0	600	600	0
8/18/2024 21:50	21204	ECAR_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/18/2024 21:50	21206	ECAR_T2	7	2	-5	1.89	8	6.11	0.39	0.47	0	0	0	0	0	0
8/18/2024 21:51	23404	HONE_T1	9	12	3	0.1	0.1	0	0	0	0	0	0	0	0	0
8/18/2024 21:51	23403	HONE_T1	32	49	17	0.13	0.12	-0.01	-0.59	-0.6	0	0	0	0	0	0
8/18/2024 21:51	62102	ELAN_T1	0	0	0	0	0	0	1.28	1.09	0	0	0	0	0	0
8/18/2024 21:51	17802	GILB_T1	0	0	0	0	0	0	0.28	0.38	0	0	0	0	0	0
8/18/2024 21:51	66703	STRA_T1	0	4	4	0	0.33	0.33	-0.85	-0.88	0	0	0	0	0	0
8/18/2024 21:52	64902	MILL_T2	0	0	0	0	0	0	-0.88	-0.92	1	1	0	900	900	0
8/18/2024 21:52	64903	MILL_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/18/2024 21:52	13503	MCMI_T2	0	0	0	0	0	0	-0.82	0.01	0	0	0	0	0	0
8/18/2024 21:52	61701	ELIZ_T1	1	1	0	1.4	2.4	1	0.74	0.69	0	0	0	0	0	0
8/18/2024 21:54	17802	GILB_T1	0	0	0	0	0	0	0.28	0.38	0	0	0	0	0	0
8/18/2024 21:54	15603	NSTR_T2	0	1	1	0	0	0	-0.2	-0.24	0	0	0	0	0	0
8/18/2024 21:54	44301	BEAV_T2	0	0	0	0	0	0	-1.28	-1.29	1	1	0	600	600	0
8/18/2024 21:55	61702	ELIZ_T2	3	0	-3	0.3	0	-0.3	-1.57	-1.63	2	2	0	1500	1500	0
8/18/2024 21:55	61801	EELI_T2	2	1	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/18/2024 21:55	64903	MILL_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/18/2024 21:55	23102	MOSC_T2	0	0	0	0	0	0	-0.55	-0.56	2	2	0	1800	1800	0
8/18/2024 21:55	64902	MILL_T2	0	0	0	0	0	0	-1.75	-1.83	2	2	0	1800	1800	0
8/18/2024 21:55	61802	EELI_T2	8	8	0	0.9	0.13	-0.77	0	0	0	0	0	0	0	0
8/18/2024 21:56	25503	MADI_T1	30	57	27	0.18	0.19	0.01	-0.76	-0.7	0	0	0	0	0	0
8/18/2024 21:56	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/18/2024 21:56	46203	DANV_T2	0	0	0	0	0	0	-1.71	-1.69	0	0	0	0	0	0
8/18/2024 21:56	25501	MADI_T1	3	3	0	1.27	1.37	0.1	0	0	0	0	0	0	0	0
8/18/2024 21:56	44201	POIN_T1	0	0	0	0	0	0	-1.43	-1.45	1	1	0	1200	1200	0
8/18/2024 21:56	46206	DANV_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/18/2024 21:56	12302	LANA_T2	0	0	0	0	0	0	-2.42	-2.45	3	3	0	2700	2700	0
8/18/2024 21:56	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 21:56	66504	SMAN_T2	0	0	0	0	0	0	-2.24	-2.4	2	2	0	2400	2400	0
8/18/2024 21:57	47001	HUGH_T2	3	4	1	7.57	8.03	0.46	-1.5	-1.55	1	1	0	900	900	0
8/18/2024 21:57	45501	DERR_T2	0	0	0	0	0	0	-0.46	-0.58	2	2	0	1800	1800	0
8/18/2024 21:58	66703	STRA_T1	0	4	4	0	0.33	0.33	-0.85	-0.88	0	0	0	0	0	0
8/18/2024 21:58	14404	SSLA_T1	15	13	-2	1.11	1.34	0.23	0	0	0	0	0	0	0	0
8/18/2024 21:58	47401	PENS_T1	0	0	0	0	0	0	0.29	0.24	0	0	0	0	0	0
8/18/2024 21:58	14403	SSLA_T1	0	0	0	0	0	0	-0.69	-0.78	1	1	0	600	600	0
8/18/2024 21:58	42802	SELI_T1	0	0	0	0	0	0	-1.25	-1.26	1	1	0	900	900	0
8/18/2024 21:58	11804	FRAN_T1	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
8/18/2024 21:59	46501	LOHA_T1	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
8/18/2024 21:59	47001	HUGH_T2	3	4	1	7.57	8.03	0.46	-1.5	-1.55	1	1	0	900	900	0
8/18/2024 21:59	46504	LOHA_T1	0	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0
8/18/2024 21:59	61701	ELIZ_T1	1	1	0	1.4	2.4	1	0.74	0.69	0	0	0	0	0	0
8/18/2024 21:59	46506	LOHA_T1	0	0	0	0	0	0	-0.82	-0.83	1	1	0	1200	1200	0
8/18/2024 21:59	42902	MIDD_T2	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
8/18/2024 21:59	43202	MVIL_T2	2	2	0	0.35	0	-0.35	-0.85	-0.84	0	0	0	0	0	0
8/18/2024 21:59	67503	WEWI_T2	1	1	0	5.7	6.2	0.5	-0.11	-0.13	0	0	0	0	0	0
8/18/2024 21:59	60502	NMAN_T2	0	0	0	0	0	0	-0.08	-0.13	0	0	0	0	0	0
8/18/2024 21:59	66703	STRA_T1	0	4	4	0	0.33	0.33	-0.85	-0.88	0	0	0	0	0	0
8/18/2024 21:59	42903	MIDD_T2	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
8/18/2024 22:00	42902	MIDD_T2	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
8/18/2024 22:00	43304	WATS_T2	1	0	-1	0.4	0	-0.4	-0.82	-0.84	0	0	0	0	0	0
8/18/2024 22:00	42802	SELI_T1	0	1	1	0	0.2	0.2	-1.25	-1.26	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/18/2024 22:00	41702	LOGA_T2	10	56	46	0.11	0.23	0.12	0	0	0	0	0	0	0	0
8/18/2024 22:00	45501	DERR_T2	0	0	0	0	0	0	-0.46	-0.58	2	2	0	1800	1800	0
8/18/2024 22:00	42903	MIDD_T2	2	2	0	0.75	0.9	0.15	-1.46	-1.45	1	1	0	1200	1200	0
8/18/2024 22:00	63602	LETO_T1	0	0	0	0	0	0	-0.49	-0.6	1	1	0	600	600	0
8/18/2024 22:00	43301	WATS_T2	0	1	1	0	0.7	0.7	-0.36	-0.4	1	1	0	900	900	0
8/18/2024 22:00	46602	LACR_T1	1	3	2	0.3	0.3	0	-0.88	-0.91	0	0	0	0	0	0
8/18/2024 22:01	61701	ELIZ_T1	1	1	0	2.1	2.5	0.4	0	0	0	0	0	0	0	0
8/18/2024 22:01	42701	AUGU_T1	1	1	0	0.1	0	-0.1	0	0	2	2	0	1800	1800	0
8/18/2024 22:01	14802	TREI_T2	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
8/18/2024 22:01	45501	DERR_T2	0	0	0	0	0	0	-0.46	-0.58	2	2	0	1800	1800	0
8/18/2024 22:01	14801	TREI_T2	5	16	11	0.5	0.39	-0.11	0	0	0	0	0	0	0	0
8/18/2024 22:01	42902	MIDD_T2	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
8/18/2024 22:01	65601	QVIL_T2	0	0	0	0	0	0	-0.54	-0.7	1	1	0	900	900	0
8/18/2024 22:01	46206	DANV_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/18/2024 22:01	46203	DANV_T2	0	0	0	0	0	0	-3.41	-3.37	0	0	0	0	0	0
8/18/2024 22:01	42903	MIDD_T2	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
8/18/2024 22:01	60803	BUCK_T1	0	12	12	0	0.17	0.17	0	0	0	0	0	0	0	0
8/18/2024 22:01	63305	GREE_T1	5	15	10	0.3	0.33	0.03	0	0	0	0	0	0	0	0
8/18/2024 22:01	61703	ELIZ_T1	0	0	0	0	0	0	-2.64	-2.66	2	2	0	2100	2100	0
8/18/2024 22:01	63304	GREE_T1	0	0	0	0	0	0	-1.36	-1.33	0	0	0	0	0	0
8/18/2024 22:01	60801	BUCK_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
8/18/2024 22:01	63303	GREE_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/18/2024 22:02	46801	HEPB_T2	2	2	0	0.95	1.25	0.3	-0.12	-0.13	0	0	0	0	0	0
8/18/2024 22:02	43304	WATS_T2	1	0	-1	0.4	0	-0.4	-0.82	-0.84	0	0	0	0	0	0
8/18/2024 22:02	64802	MONE_T2	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
8/18/2024 22:02	14403	SSLA_T1	0	0	0	0	0	0	-0.69	-0.78	1	1	0	600	600	0
8/18/2024 22:02	66505	SMAN_T2	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
8/18/2024 22:02	16201	POFA_T2	4	3	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/18/2024 22:02	44902	SCOT_T2	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
8/18/2024 22:02	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/18/2024 22:02	43301	WATS_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/18/2024 22:02	46206	DANV_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/18/2024 22:02	46001	BERW_T1	0	0	0	0	0	0	-1.82	-1.86	0	0	0	0	0	0
8/18/2024 22:02	46203	DANV_T2	0	0	0	0	0	0	-1.71	-1.69	0	0	0	0	0	0
8/18/2024 22:02	14404	SSLA_T1	10	18	8	1.55	1.09	-0.46	0	0	0	0	0	0	0	0
8/18/2024 22:02	67503	WEWI_T2	1	1	0	6	6.4	0.4	-0.11	-0.13	0	0	0	0	0	0
8/18/2024 22:02	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 22:02	66504	SMAN_T2	0	0	0	0	0	0	-1.12	-1.2	1	1	0	1200	1200	0
8/18/2024 22:03	60502	NMAN_T2	0	0	0	0	0	0	-0.08	-0.13	0	0	0	0	0	0
8/18/2024 22:03	46501	LOHA_T1	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
8/18/2024 22:03	61703	ELIZ_T1	0	0	0	0	0	0	-5.29	-5.32	4	4	0	4200	4200	0
8/18/2024 22:03	46504	LOHA_T1	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
8/18/2024 22:03	49803	UNIV_T1	1	1	0	5	4.9	-0.1	-1.96	-1.98	0	0	0	0	0	0
8/18/2024 22:03	42902	MIDD_T2	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
8/18/2024 22:03	46506	LOHA_T1	0	0	0	0	0	0	-0.82	-0.83	1	1	0	1200	1200	0
8/18/2024 22:03	42903	MIDD_T2	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
8/18/2024 22:03	44301	BEAV_T2	0	0	0	0	0	0	-1.28	-1.29	1	1	0	600	600	0
8/18/2024 22:03	49804	UNIV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/18/2024 22:03	61701	ELIZ_T1	1	1	0	2.1	2.5	0.4	0	0	0	0	0	0	0	0
8/18/2024 22:03	44801	EDAN_T2	9	16	7	0.26	0.2	-0.06	-1.44	-1.46	0	0	0	0	0	0
8/18/2024 22:03	42701	AUGU_T1	1	1	0	0.1	0	-0.1	0	0	2	2	0	1800	1800	0
8/18/2024 22:04	42903	MIDD_T2	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
8/18/2024 22:04	47401	PENS_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
8/18/2024 22:04	42902	MIDD_T2	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
8/18/2024 22:04	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 22:04	42802	SELI_T1	0	1	1	0	0.2	0.2	-1.25	-1.26	1	1	0	900	900	0
8/18/2024 22:04	60502	NMAN_T2	0	0	0	0	0	0	-0.08	-0.13	0	0	0	0	0	0
8/18/2024 22:05	44201	POIN_T1	0	0	0	0	0	0	-1.43	-1.45	1	1	0	1200	1200	0
8/18/2024 22:05	61703	ELIZ_T1	0	0	0	0	0	0	-2.64	-2.66	2	2	0	2100	2100	0
8/18/2024 22:05	43301	WATS_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/18/2024 22:05	46803	HEPB_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
8/18/2024 22:05	46801	HEPB_T2	2	2	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
8/18/2024 22:05	43304	WATS_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/18/2024 22:05	61701	ELIZ_T1	1	1	0	2.1	2.5	0.4	0	0	0	0	0	0	0	0
8/18/2024 22:05	44301	BEAV_T2	0	0	0	0	0	0	-1.28	-1.29	1	1	0	600	600	0
8/18/2024 22:06	42902	MIDD_T2	0	0	0	0	0	0	-0.88	-0.81	0	0	0	0	0	0
8/18/2024 22:06	64101	REFR_T1	0	0	0	0	0	0	0.32	0.27	0	0	0	0	0	0
8/18/2024 22:06	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 22:06	61702	ELIZ_T2	0	0	0	0	0	0	-1.63	-1.64	2	2	0	1500	1500	0
8/18/2024 22:06	44301	BEAV_T2	0	0	0	0	0	0	-2.58	-2.53	2	2	0	1200	1200	0
8/18/2024 22:06	42903	MIDD_T2	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
8/18/2024 22:06	61701	ELIZ_T1	1	1	0	2.1	2.5	0.4	0	0	0	0	0	0	0	0
8/18/2024 22:07	64101	REFR_T1	0	0	0	0	0	0	0.32	0.27	0	0	0	0	0	0
8/18/2024 22:07	61801	ELEI_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/18/2024 22:07	43202	MVIL_T2	2	0	-2	0.3	0	-0.3	-0.84	-0.88	0	0	0	0	0	0
8/18/2024 22:07	46501	LOHA_T1	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
8/18/2024 22:07	44202	POIN_T2	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
8/18/2024 22:07	46801	HEPB_T2	2	2	0	0.95	1.25	0.3	-0.13	-0.18	0	0	0	0	0	0
8/18/2024 22:07	61802	ELEI_T2	8	3	-5	0.29	0	-0.29	-0.85	-0.93	0	0	0	0	0	0
8/18/2024 22:07	46506	LOHA_T1	0	0	0	0	0	0	-0.83	-0.77	1	1	0	1200	1200	0
8/18/2024 22:07	44203	POIN_T2	0	0	0	0	0	0	-0.23	-0.28	1	1	0	900	900	0
8/18/2024 22:07	46504	LOHA_T1	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
8/18/2024 22:08	46504	LOHA_T1	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
8/18/2024 22:08	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 22:08	46501	LOHA_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
8/18/2024 22:08	49804	UNIV_T1	0	1	1	0	0.2	0.2	0.86	0.9	0	0	0	0	0	0
8/18/2024 22:08	46506	LOHA_T1	0	0	0	0	0	0	-0.83	-0.77	1	1	0	1200	1200	0
8/18/2024 22:08	42701	AUGU_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/18/2024 22:08	49803	UNIV_T1	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
8/18/2024 22:08	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 22:08	47401	PENS_T1	0	0	0	0	0	0	0.12	0.06	0	0	0	0	0	0
8/18/2024 22:08	16201	POFA_T2	4	3	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/18/2024 22:09	21501	CEAV_T2	0	0	0	0	0	0	0.27	0.26	1	1	0	1200	1200	0
8/18/2024 22:09	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2024 22:09	46901	MNTG_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
8/18/2024 22:09	16201	POFA_T2	4	3	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/18/2024 22:09	42802	SELI_T1	0	1	1	0	0.2	0.2	-1.26	-1.35	1	1	0	900	900	0
8/18/2024 22:09	46504	LOHA_T1	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
8/18/2024 22:09	63804	HEMP_T1	1	1	0	6	5.7	-0.3	-0.01	-0.04	0	0	0	0	0	0
8/18/2024 22:09	46503	LOHA_T1	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
8/18/2024 22:09	64101	REFR_T1	0	0	0	0	0	0	1.61	1.36	0	0	0	0	0	0
8/18/2024 22:09	46501	LOHA_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
8/18/2024 22:10	64101	REFR_T1	0	0	0	0	0	0	0.64	0.54	0	0	0	0	0	0
8/18/2024 22:11	46503	LOHA_T1	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
8/18/2024 22:11	46504	LOHA_T1	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
8/18/2024 22:11	46501	LOHA_T1	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
8/18/2024 22:11	64101	REFR_T1	0	0	0	0	0	0	0.32	0.27	0	0	0	0	0	0
8/18/2024 22:12	64101	REFR_T1	0	0	0	0	0	0	0.64	0.54	0	0	0	0	0	0
8/18/2024 22:28	65205	PRIN_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
8/18/2024 22:42	16102	BING_T2	0	0	0	0	0	0	0.57	0.54	0	0	0	0	0	0
8/18/2024 22:56	64305	LINC_T1	0	0	0	0	0	0	-0.43	-0.35	0	0	0	0	0	0
8/19/2024 7:12	65601	QVIL_T2	0	0	0	0	0	0	-1.05	-0.92	1	1	0	900	900	0
8/19/2024 7:24	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 7:33	13501	MCMI_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
8/19/2024 7:37	62607	ENGL_T1	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
8/19/2024 7:42	23901	EFMO_T2	0	1	1	0	0.2	0.2	-0.29	-0.29	0	0	0	0	0	0
8/19/2024 7:50	67002	STHI_T2	0	0	0	0	0	0	0.98	1.08	0	0	0	0	0	0
8/19/2024 7:50	67001	STHI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/19/2024 7:51	67001	STHI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/19/2024 7:51	67002	STHI_T2	0	0	0	0	0	0	1.08	1.06	0	0	0	0	0	0
8/19/2024 7:52	67001	STHI_T2	1	1	0	0.1	0.4	0.3	0.2	0.2	0	0	0	0	0	0
8/19/2024 7:54	62604	ENGL_T1	0	0	0	0	0	0	-0.48	-0.44	1	1	0	600	600	0
8/19/2024 7:54	67002	STHI_T2	0	0	0	0	0	0	1.08	1.06	0	0	0	0	0	0
8/19/2024 7:54	67001	STHI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/19/2024 8:02	66302	MCGO_T2	60	8	-52	0.12	0.14	0.02	-1.46	-1.55	1	1	0	600	600	0
8/19/2024 8:06	15702	TANN_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
8/19/2024 8:06	15703	TANN_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
8/19/2024 8:07	15702	TANN_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
8/19/2024 8:07	15703	TANN_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
8/19/2024 8:08	67503	WEWI_T2	1	1	0	8.4	8.2	-0.2	0.19	0.21	0	0	0	0	0	0
8/19/2024 8:09	67503	WEWI_T2	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
8/19/2024 8:09	67502	WEWI_T2	0	0	0	0	0	0	0.02	0.12	0	0	0	0	0	0
8/19/2024 8:10	67505	WEWI_T1	0	0	0	0	0	0	0.19	0.19	1	1	0	900	900	0
8/19/2024 8:11	67502	WEWI_T2	0	0	0	0	0	0	0.02	0.12	0	0	0	0	0	0
8/19/2024 8:11	67503	WEWI_T2	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
8/19/2024 8:12	44801	EDAN_T2	61	80	19	0.45	0.42	-0.03	-1.49	-1.48	0	0	0	0	0	0
8/19/2024 8:16	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 8:20	64904	MILL_T1	0	0	0	0	0	0	-0.2	-0.17	0	0	0	0	0	0
8/19/2024 8:25	67804	WLAN_T1	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
8/19/2024 8:36	47502	NECO_T1	0	0	0	0	0	0	1.01	1.04	0	0	0	0	0	0
8/19/2024 8:42	61801	EELI_T2	0	1	1	0	0.2	0.2	-0.31	-0.27	1	1	0	600	600	0
8/19/2024 8:44	23401	HONE_T2	0	0	0	0	0	0	0.16	0.23	0	0	0	0	0	0
8/19/2024 8:52	14802	TREI_T2	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
8/19/2024 8:52	14801	TREI_T2	1	2	1	0.8	0.8	0	0	0	0	0	0	0	0	0
8/19/2024 8:54	67803	WLAN_T1	0	0	0	0	0	0	-1.31	-1.3	0	0	0	0	0	0
8/19/2024 8:55	10205	ALLE_T3	2	2	0	0.45	1.2	0.75	0	0	0	0	0	0	0	0
8/19/2024 8:55	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 9:04	64101	REFR_T1	0	0	0	0	0	0	0.29	0.5	0	0	0	0	0	0
8/19/2024 9:05	64101	REFR_T1	0	0	0	0	0	0	0.14	0.25	0	0	0	0	0	0
8/19/2024 9:07	67203	TEHI_T1	11	8	-3	0.8	0	-0.8	1.81	2.31	3	3	0	2100	2100	0
8/19/2024 9:07	64101	REFR_T1	0	0	0	0	0	0	0.75	0.56	0	0	0	0	0	0
8/19/2024 9:07	67201	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 9:08	14801	TREI_T2	1	3	2	0.6	0.37	-0.23	0	-0.08	0	0	0	0	0	0
8/19/2024 9:08	64101	REFR_T1	0	0	0	0	0	0	0.25	0.19	0	0	0	0	0	0
8/19/2024 9:10	64101	REFR_T1	0	0	0	0	0	0	0.25	0.19	0	0	0	0	0	0
8/19/2024 9:10	14801	TREI_T2	1	3	2	0.6	0.37	-0.23	0	-0.08	0	0	0	0	0	0
8/19/2024 9:11	44801	EDAN_T2	26	41	15	0.18	0.23	0.05	-1.47	-1.46	0	0	0	0	0	0
8/19/2024 9:12	61301	EARL_T1	0	0	0	0	0	0	-0.94	-0.98	2	2	0	1800	1800	0
8/19/2024 9:15	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 9:15	64601	LEOL_T1	0	0	0	0	0	0	-1.45	-1.33	1	1	0	1200	1200	0
8/19/2024 9:15	46506	LOHA_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	1200	1200	0
8/19/2024 9:16	46506	LOHA_T1	0	0	0	0	0	0	-1.82	-1.8	2	2	0	2400	2400	0
8/19/2024 9:16	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/19/2024 9:17	22402	MORG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 9:17	12807	MICK_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/19/2024 9:17	64601	LEOL_T1	0	0	0	0	0	0	-1.45	-1.33	1	1	0	1200	1200	0
8/19/2024 9:17	22405	MORG_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
8/19/2024 9:17	12802	MICK_T1	0	0	0	0	0	0	-0.75	-0.67	0	0	0	0	0	0
8/19/2024 9:17	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.45	0.71	6	6	0	4200	4200	0
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.45	0.71	6	6	0	4200	4200	0
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.45	0.71	6	3	-3	4200	2100	-2100
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.45	0.71	6	3	-3	4200	2100	-2100
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.45	0.71	6	3	-3	4200	2100	-2100
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.45	0.71	3	6	3	2100	4200	2100
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.45	0.71	3	3	0	2100	2100	0
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.45	0.71	3	3	0	2100	2100	0
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.45	0.35	6	6	0	4200	4200	0
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.45	0.35	6	6	0	4200	4200	0
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.45	0.35	6	3	-3	4200	2100	-2100
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.45	0.35	6	3	-3	4200	2100	-2100
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.45	0.35	3	6	3	2100	4200	2100
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.45	0.35	3	6	3	2100	4200	2100
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.45	0.35	3	3	0	2100	2100	0
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.45	0.35	3	3	0	2100	2100	0
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.22	0.71	6	6	0	4200	4200	0
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.22	0.71	6	6	0	4200	4200	0
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.22	0.71	6	3	-3	4200	2100	-2100
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.22	0.71	6	3	-3	4200	2100	-2100
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.22	0.71	3	6	3	2100	4200	2100
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.22	0.71	3	6	3	2100	4200	2100
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.22	0.71	3	3	0	2100	2100	0
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.22	0.71	3	3	0	2100	2100	0
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.22	0.35	6	6	0	4200	4200	0
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.22	0.35	6	6	0	4200	4200	0
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.22	0.35	6	3	-3	4200	2100	-2100
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.22	0.35	6	3	-3	4200	2100	-2100
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.22	0.35	3	6	3	2100	4200	2100
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.22	0.35	3	6	3	2100	4200	2100
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.22	0.35	3	3	0	2100	2100	0
8/19/2024 9:18	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.22	0.35	3	3	0	2100	2100	0
8/19/2024 9:18	64204	KINZ_T1	5	2	-3	0.3	0.3	0	0	0	0	0	0	0	0	0
8/19/2024 9:19	13501	MCMI_T1	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
8/19/2024 9:19	64204	KINZ_T1	5	2	-3	0.3	0.3	0	0	0	0	0	0	0	0	0
8/19/2024 9:19	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.22	0.35	3	3	0	2100	2100	0
8/19/2024 9:19	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 9:19	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 9:19	46506	LOHA_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	1200	1200	0
8/19/2024 9:20	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 9:21	64204	KINZ_T1	5	2	-3	0.3	0.3	0	0	0	0	0	0	0	0	0
8/19/2024 9:21	64201	KINZ_T1	0	0	0	0	0	0	-1.25	-1.18	8	8	0	4200	4200	0
8/19/2024 9:21	22402	MORG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 9:21	64203	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/19/2024 9:21	22405	MORG_T2	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
8/19/2024 9:22	64201	KINZ_T1	0	0	0	0	0	0	-0.62	-0.59	4	4	0	2100	2100	0
8/19/2024 9:22	64203	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/19/2024 9:22	64204	KINZ_T1	5	2	-3	0.3	0.3	0	0	0	0	0	0	0	0	0
8/19/2024 9:22	66505	SMAN_T2	0	0	0	0	0	0	0.2	0.39	3	3	0	2100	2100	0
8/19/2024 9:23	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 9:24	43304	WATS_T2	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
8/19/2024 9:24	66505	SMAN_T2	0	0	0	0	0	0	0.2	0.39	3	3	0	2100	2100	0
8/19/2024 9:24	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 9:25	12503	MITR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/19/2024 9:25	12502	MITR_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
8/19/2024 9:25	12505	MITR_T2	0	0	0	0	0	0	0.84	0.82	0	0	0	0	0	0
8/19/2024 9:25	46206	DANV_T2	6	5	-1	0.62	0.7	0.08	2.64	2.56	1	1	0	1200	1200	0
8/19/2024 9:25	46002	BERW_T2	0	0	0	0	0	0	-0.84	-0.84	1	1	0	900	900	0
8/19/2024 9:25	67001	STHI_T2	1	1	0	0.5	0.3	-0.2	0.26	0.24	0	0	0	0	0	0
8/19/2024 9:25	46004	BERW_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
8/19/2024 9:26	46004	BERW_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
8/19/2024 9:26	44301	BEAV_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/19/2024 9:27	46206	DANV_T2	6	5	-1	0.62	0.7	0.08	7.92	7.68	3	3	0	3600	3600	0
8/19/2024 9:27	61301	EARL_T1	0	0	0	0	0	0	-0.98	-0.97	2	2	0	1800	1800	0
8/19/2024 9:27	46002	BERW_T2	0	0	0	0	0	0	-1.68	-1.68	2	2	0	1800	1800	0
8/19/2024 9:27	46401	FLEM_T2	6	14	8	0.12	0.23	0.11	-0.28	-0.19	0	0	0	0	0	0
8/19/2024 9:27	21501	CEAV_T2	0	0	0	0	0	0	-0.89	-0.62	1	1	0	1200	1200	0
8/19/2024 9:27	46402	FLEM_T2	2	20	18	0.1	0.1	0	0	0	0	0	0	0	0	0
8/19/2024 9:28	45502	DERR_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/19/2024 9:28	45501	DERR_T2	0	0	0	0	0	0	1.2	1.14	2	2	0	1800	1800	0
8/19/2024 9:28	46402	FLEM_T2	2	20	18	0.1	0.1	0	0	0	0	0	0	0	0	0
8/19/2024 9:28	46401	FLEM_T2	6	14	8	0.12	0.23	0.11	-0.28	-0.19	0	0	0	0	0	0
8/19/2024 9:29	45501	DERR_T2	0	0	0	0	0	0	1.2	1.14	2	2	0	1800	1800	0
8/19/2024 9:29	46401	FLEM_T2	6	14	8	0.12	0.23	0.11	0	0	0	0	0	0	0	0
8/19/2024 9:29	45502	DERR_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/19/2024 9:29	46402	FLEM_T2	2	20	18	0.1	0.1	0	0.09	0.13	0	0	0	0	0	0
8/19/2024 9:33	64305	LINC_T1	1	1	0	1	1	0	0.29	0.47	0	0	0	0	0	0
8/19/2024 9:36	64101	RERR_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
8/19/2024 9:37	62102	ELAN_T1	0	1	1	0	0.1	0.1	0.98	1.05	0	0	0	0	0	0
8/19/2024 9:37	65901	SAKR_T2	1	1	0	7.8	7.9	0.1	0	0	0	0	0	0	0	0
8/19/2024 9:37	65904	SAKR_T2	0	0	0	0	0	0	-1.76	-1.61	3	3	0	1500	1500	0
8/19/2024 9:40	45602	WOOL_T1	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
8/19/2024 9:40	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 9:42	44301	BEAV_T2	1	1	0	0.7	1.4	0.7	0	0	0	0	0	0	0	0
8/19/2024 9:43	17802	GILB_T1	0	1	1	0	0.6	0.6	0.4	0.41	0	0	0	0	0	0
8/19/2024 9:47	23102	MOSC_T2	0	0	0	0	0	0	1.25	1.1	2	2	0	1800	1800	0
8/19/2024 9:49	13303	ORVI_T1	0	0	0	0	0	0	0.21	0.25	0	0	0	0	0	0
8/19/2024 9:53	67503	WEWI_T2	1	11	10	7.2	7.2	0	0.33	0.31	0	0	0	0	0	0
8/19/2024 9:53	67502	WEWI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/19/2024 9:54	67502	WEWI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/19/2024 9:54	67503	WEWI_T2	1	11	10	7.2	7.2	0	0.33	0.31	0	0	0	0	0	0
8/19/2024 9:54	66505	SMAN_T2	0	0	0	0	0	0	0.35	0.43	3	3	0	2100	2100	0
8/19/2024 9:54	42801	SELI_T1	0	0	0	0	0	0	-0.95	-0.77	1	1	0	1200	1200	0
8/19/2024 9:56	67503	WEWI_T2	1	11	10	7.2	7.2	0	0	0	0	0	0	0	0	0
8/19/2024 9:56	67502	WEWI_T2	1	1	0	0.4	0.2	-0.2	-0.69	-0.67	1	1	0	900	900	0
8/19/2024 9:57	16006	DORN_T2	0	0	0	0	0	0	-0.14	-0.1	0	0	0	0	0	0
8/19/2024 9:57	64602	LEOL_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
8/19/2024 9:59	16006	DORN_T2	0	0	0	0	0	0	-0.14	-0.1	0	0	0	0	0	0
8/19/2024 10:00	64204	KINZ_T1	2	2	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.91	0.98	3	3	0	2100	2100	0
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.91	0.98	3	3	0	2100	2100	0
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.91	0.98	3	6	3	2100	4200	2100
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.91	0.98	3	6	3	2100	4200	2100
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.91	0.98	6	3	-3	4200	2100	-2100
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.91	0.98	6	3	-3	4200	2100	-2100
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.91	0.98	6	6	0	4200	4200	0
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.91	0.98	6	6	0	4200	4200	0
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.91	0.49	3	3	0	2100	2100	0
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.91	0.49	3	3	0	2100	2100	0
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.91	0.49	3	6	3	2100	4200	2100
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.91	0.49	3	6	3	2100	4200	2100
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.91	0.49	6	3	-3	4200	2100	-2100
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.91	0.49	6	3	-3	4200	2100	-2100
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.91	0.49	6	6	0	4200	4200	0
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.91	0.49	6	6	0	4200	4200	0
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.45	0.98	3	3	0	2100	2100	0
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.45	0.98	3	3	0	2100	2100	0
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.45	0.98	3	6	3	2100	4200	2100
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.45	0.98	3	6	3	2100	4200	2100
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.45	0.98	6	3	-3	4200	2100	-2100
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.45	0.98	6	3	-3	4200	2100	-2100
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.45	0.98	6	6	0	4200	4200	0
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.45	0.98	6	6	0	4200	4200	0
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.45	0.49	3	3	0	2100	2100	0
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.45	0.49	3	3	0	2100	2100	0
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.45	0.49	3	6	3	2100	4200	2100
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.45	0.49	3	6	3	2100	4200	2100
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.45	0.49	6	3	-3	4200	2100	-2100
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.45	0.49	6	3	-3	4200	2100	-2100
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.45	0.49	6	6	0	4200	4200	0
8/19/2024 10:00	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0.45	0.49	6	6	0	4200	4200	0
8/19/2024 10:00	13501	MCMI_T1	0	0	0	0	0	0	0.24	0.27	0	0	0	0	0	0
8/19/2024 10:00	12807	MICK_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/19/2024 10:00	12802	MICK_T1	0	0	0	0	0	0	-0.69	-0.64	0	0	0	0	0	0
8/19/2024 10:00	47502	NECO_T1	0	0	0	0	0	0	1.12	0.99	0	0	0	0	0	0
8/19/2024 10:00	64904	MILL_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
8/19/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	0.25	0.31	0	0	0	0	0	0
8/19/2024 10:00	64602	LEOL_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
8/19/2024 10:00	64201	KINZ_T1	0	0	0	0	0	0	-0.8	-0.76	8	8	0	4200	4200	0
8/19/2024 10:06	67502	WEWI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/19/2024 10:06	67503	WEWI_T2	1	1	0	7.2	6.7	-0.5	0.31	0.37	0	0	0	0	0	0
8/19/2024 10:08	64204	KINZ_T1	2	2	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
8/19/2024 10:08	64203	KINZ_T1	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
8/19/2024 10:08	66302	MCGO_T2	0	0	0	0	0	0	-1.24	-1.28	1	1	0	600	600	0
8/19/2024 10:08	64201	KINZ_T1	0	0	0	0	0	0	-0.38	-0.4	4	4	0	2100	2100	0
8/19/2024 10:09	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/19/2024 10:09	66505	SMAN_T2	0	0	0	0	0	0	0.43	0.61	3	3	0	2100	2100	0
8/19/2024 10:09	67503	WEWI_T2	1	1	0	7.2	6.7	-0.5	0.63	0.74	0	0	0	0	0	0
8/19/2024 10:09	67502	WEWI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/19/2024 10:10	45501	DERR_T2	0	0	0	0	0	0	1.21	1.16	2	2	0	1800	1800	0
8/19/2024 10:10	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 10:11	14801	TREI_T2	1	8	7	0.1	0.29	0.19	0.07	0.09	0	0	0	0	0	0
8/19/2024 10:11	45501	DERR_T2	0	0	0	0	0	0	1.21	1.16	2	2	0	1800	1800	0
8/19/2024 10:11	10801	CHHI_T1	1	3	2	0.1	0.13	0.03	-0.32	-0.29	1	1	0	900	900	0
8/19/2024 10:11	65802	RTWN_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
8/19/2024 10:11	65803	RTWN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/19/2024 10:12	11102	EGYP_T1	2	1	-1	1.3	0.5	-0.8	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/19/2024 10:12	11103	EGYP_T1	0	0	0	0	0	0	1.17	1.25	0	0	0	0	0	0
8/19/2024 10:13	44801	EDAN_T2	8	1	-7	0.36	1.1	0.74	-1.41	-1.37	0	0	0	0	0	0
8/19/2024 10:13	67803	WLAN_T1	0	0	0	0	0	0	-1.19	-1.2	0	0	0	0	0	0
8/19/2024 10:14	44801	EDAN_T2	8	1	-7	0.36	1.1	0.74	-1.41	-1.37	0	0	0	0	0	0
8/19/2024 10:14	21501	CEAV_T2	0	0	0	0	0	0	-0.22	-0.43	1	1	0	1200	1200	0
8/19/2024 10:15	17802	GILB_T1	2	1	-1	0.5	0.1	-0.4	0.47	0.44	0	0	0	0	0	0
8/19/2024 10:16	25503	MADI_T1	3	0	-3	0.1	0	-0.1	-0.78	-0.75	0	0	0	0	0	0
8/19/2024 10:16	46501	LOHA_T1	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
8/19/2024 10:16	25501	MADI_T1	3	4	1	1.1	0.75	-0.35	0	0	0	0	0	0	0	0
8/19/2024 10:16	46506	LOHA_T1	0	0	0	0	0	0	-0.86	-0.88	1	1	0	1200	1200	0
8/19/2024 10:17	28702	HAMI_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
8/19/2024 10:21	64204	KINZ_T1	2	3	1	0.6	0.63	0.03	0	0	0	0	0	0	0	0
8/19/2024 10:21	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 10:21	64203	KINZ_T1	2	2	0	1.75	0.8	-0.95	0	0	0	0	0	0	0	0
8/19/2024 10:21	64201	KINZ_T1	0	0	0	0	0	0	-0.4	-0.27	4	4	0	2100	2100	0
8/19/2024 10:21	66502	SMAN_T2	0	1	1	0	0.2	0.2	0.65	0.59	0	0	0	0	0	0
8/19/2024 10:22	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/19/2024 10:22	12801	MICK_T1	0	0	0	0	0	0	-0.5	-0.42	1	1	0	600	600	0
8/19/2024 10:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 10:22	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 10:22	12807	MICK_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/19/2024 10:22	64904	MILL_T1	0	0	0	0	0	0	0.01	0.07	0	0	0	0	0	0
8/19/2024 10:25	65205	PRIN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/19/2024 10:25	60101	COCA_T1	0	0	0	0	0	0	0.62	0.6	1	1	0	600	600	0
8/19/2024 10:26	43304	WATS_T2	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
8/19/2024 10:29	60101	COCA_T1	0	0	0	0	0	0	1.23	1.2	2	2	0	1200	1200	0
8/19/2024 10:29	63403	HONY_T2	0	0	0	0	0	0	-0.06	-0.04	1	1	0	600	600	0
8/19/2024 10:30	10705	CATA_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
8/19/2024 10:30	10701	CATA_T2	0	0	0	0	0	0	-0.19	-0.09	0	0	0	0	0	0
8/19/2024 10:31	60101	COCA_T1	0	0	0	0	0	0	0.62	0.6	1	1	0	600	600	0
8/19/2024 10:34	23102	MOSC_T2	0	0	0	0	0	0	0.41	0.43	2	2	0	1800	1800	0
8/19/2024 10:37	65001	NEFF_T2	0	0	0	0	0	0	0.11	0.12	1	1	0	1200	1200	0
8/19/2024 10:38	14603	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/19/2024 10:38	14601	SWHI_T1	0	1	1	0	0.3	0.3	-0.53	-0.51	0	0	0	0	0	0
8/19/2024 10:39	14603	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/19/2024 10:39	14601	SWHI_T1	0	1	1	0	0.3	0.3	-0.53	-0.51	0	0	0	0	0	0
8/19/2024 10:39	60801	BUCK_T1	0	0	0	0	0	0	-0.36	-0.35	1	1	0	600	600	0
8/19/2024 10:40	60101	COCA_T1	0	0	0	0	0	0	0.6	0.74	1	1	0	600	600	0
8/19/2024 10:40	46203	DANV_T2	1	1	0	6.4	6.5	0.1	-0.37	-0.29	0	0	0	0	0	0
8/19/2024 10:40	46206	DANV_T2	4	4	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/19/2024 10:43	63304	GREE_T1	0	0	0	0	0	0	-1.1	-1.05	0	0	0	0	0	0
8/19/2024 10:44	16006	DORN_T2	0	0	0	0	0	0	-0.23	-0.17	0	0	0	0	0	0
8/19/2024 10:46	63304	GREE_T1	0	0	0	0	0	0	-1.1	-1.05	0	0	0	0	0	0
8/19/2024 10:46	64305	LINC_T1	1	1	0	1.3	0.4	-0.9	0.57	0.43	0	0	0	0	0	0
8/19/2024 10:46	12703	MACU_T2	0	0	0	0	0	0	-0.47	-0.44	0	0	0	0	0	0
8/19/2024 10:46	12701	MACU_T1	0	0	0	0	0	0	0.38	0.34	0	0	0	0	0	0
8/19/2024 10:47	16406	MOPO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 10:47	16402	MOPO_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
8/19/2024 10:49	16402	MOPO_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
8/19/2024 10:49	16406	MOPO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 10:49	64101	REFR_T1	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
8/19/2024 10:50	64101	REFR_T1	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
8/19/2024 10:51	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.75	1	1	0	900	900	0
8/19/2024 10:52	64101	REFR_T1	0	0	0	0	0	0	0.79	0.91	0	0	0	0	0	0
8/19/2024 10:53	67502	WEWI_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/19/2024 10:53	67503	WEWI_T2	3	1	-2	7.07	6.6	-0.47	0.38	0.41	0	0	0	0	0	0
8/19/2024 10:53	64101	REFR_T1	0	0	0	0	0	0	0.26	0.3	0	0	0	0	0	0
8/19/2024 10:54	64101	REFR_T1	0	0	0	0	0	0	0.26	0.3	0	0	0	0	0	0
8/19/2024 10:55	43801	SWIL_T1	2	5	3	2.35	1.04	-1.31	0	0	0	0	0	0	0	0
8/19/2024 10:55	43802	SWIL_T1	0	0	0	0	0	0	0.24	0.28	1	1	0	600	600	0
8/19/2024 10:57	61701	ELIZ_T1	1	1	0	1.7	2	0.3	0	0	0	0	0	0	0	0
8/19/2024 10:57	16102	BING_T2	0	0	0	0	0	0	0.37	0.4	1	1	0	1200	1200	0
8/19/2024 10:57	46402	FLEM_T2	20	28	8	0.52	0.54	0.02	0	0	0	0	0	0	0	0
8/19/2024 10:57	10805	CHHI_T2	1	1	0	7.8	8.2	0.4	-0.73	-0.56	2	2	0	1800	1800	0
8/19/2024 10:57	46401	FLEM_T2	88	205	117	0.26	0.27	0.01	-0.17	-0.24	0	0	0	0	0	0
8/19/2024 10:57	61703	ELIZ_T1	0	0	0	0	0	0	-2.68	-2.44	2	2	0	2100	2100	0
8/19/2024 10:58	61701	ELIZ_T1	1	1	0	1.7	2	0.3	0	0	0	0	0	0	0	0
8/19/2024 10:58	61703	ELIZ_T1	0	0	0	0	0	0	-2.68	-2.44	2	2	0	2100	2100	0
8/19/2024 10:58	10805	CHHI_T2	1	1	0	7.8	8.2	0.4	-0.73	-0.56	2	2	0	1800	1800	0
8/19/2024 10:59	61701	ELIZ_T1	1	1	0	1.7	2	0.3	0	0	0	0	0	0	0	0
8/19/2024 10:59	61703	ELIZ_T1	0	0	0	0	0	0	-2.68	-2.44	2	2	0	2100	2100	0
8/19/2024 11:00	61701	ELIZ_T1	1	1	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
8/19/2024 11:00	17804	GILB_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/19/2024 11:00	61703	ELIZ_T1	0	0	0	0	0	0	-2.68	-2.44	2	2	0	2100	2100	0
8/19/2024 11:00	17805	GILB_T2	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
8/19/2024 11:01	46402	FLEM_T2	26	27	1	0.49	0.56	0.07	0	0	0	0	0	0	0	0
8/19/2024 11:01	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 11:01	63403	HONY_T2	0	1	1	0	0.7	0.7	0.06	0.02	1	1	0	600	600	0
8/19/2024 11:01	46401	FLEM_T2	170	187	17	0.26	0.28	0.02	-0.17	-0.24	0	0	0	0	0	0
8/19/2024 11:03	12701	MACU_T1	0	1	1	0	0	0	0.34	0.37	0	0	0	0	0	0
8/19/2024 11:04	64802	MONE_T2	0	0	0	0	0	0	0.39	0.43	0	0	0	0	0	0
8/19/2024 11:05	10801	CHHI_T1	2	5	3	1.45	0.5	-0.95	-0.11	-0.11	1	1	0	900	900	0
8/19/2024 11:05	12604	MACA_T1	0	0	0	0	0	0	0.59	0.64	0	0	0	0	0	0
8/19/2024 11:05	12601	MACA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/19/2024 11:05	12605	MACA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 11:06	12701	MACU_T1	0	1	1	0	0	0	0.37	0.37	0	0	0	0	0	0
8/19/2024 11:06	42802	SELI_T1	0	0	0	0	0	0	-1.03	-1	1	1	0	900	900	0
8/19/2024 11:06	15201	SFAR_T1	0	0	0	0	0	0	0.44	0.49	2	2	0	1800	1800	0
8/19/2024 11:07	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.7	1	1	0	900	900	0
8/19/2024 11:08	67201	TEHI_T1	8	6	-2	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
8/19/2024 11:08	67203	TEHI_T1	34	21	-13	0.52	0.44	-0.08	2.47	2.43	3	3	0	2100	2100	0
8/19/2024 11:08	42802	SELI_T1	0	0	0	0	0	0	-1.03	-1	1	1	0	900	900	0
8/19/2024 11:09	45602	WOOL_T1	0	1	1	0	0.3	0.3	0.91	0.89	0	0	0	0	0	0
8/19/2024 11:10	67001	STHI_T2	1	1	0	0.5	0.3	-0.2	0.44	0.43	0	0	0	0	0	0
8/19/2024 11:10	15001	BLMO_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
8/19/2024 11:11	67502	WEWI_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
8/19/2024 11:11	12304	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 11:11	14801	TREI_T2	5	8	3	0.4	0.45	0.05	0.25	0.28	0	0	0	0	0	0
8/19/2024 11:11	45602	WOOL_T1	0	1	1	0	0.3	0.3	0.91	0.89	0	0	0	0	0	0
8/19/2024 11:11	14802	TREI_T2	0	0	0	0	0	0	0.94	1.05	0	0	0	0	0	0
8/19/2024 11:11	11102	EGYP_T1	1	1	0	0.5	0.9	0.4	0.16	0.17	0	0	0	0	0	0
8/19/2024 11:11	12302	LANA_T2	0	0	0	0	0	0	-1.23	-1.17	2	2	0	1500	1500	0
8/19/2024 11:11	67503	WEWI_T2	1	1	0	6.6	6.3	-0.3	0.41	0.33	0	0	0	0	0	0
8/19/2024 11:11	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 11:11	11104	EGYP_T1	6	5	-1	0.32	0.6	0.28	0	0	0	0	0	0	0	0
8/19/2024 11:12	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 11:12	67503	WEWI_T2	1	1	0	6.6	6.3	-0.3	0.41	0.33	0	0	0	0	0	0
8/19/2024 11:12	67502	WEWI_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
8/19/2024 11:12	46206	DANV_T2	4	4	0	0.38	0.2	-0.18	3.33	3.4	4	4	0	4200	4200	0
8/19/2024 11:12	46203	DANV_T2	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
8/19/2024 11:13	16101	BING_T2	0	1	1	0	0	0	0.78	0.85	0	0	0	0	0	0
8/19/2024 11:13	10805	CHHI_T2	1	1	0	8.2	8.4	0.2	-0.56	-0.6	2	2	0	1800	1800	0
8/19/2024 11:13	16103	BING_T2	0	0	0	0	0	0	-0.96	-1.5	1	2	1	900	1500	600
8/19/2024 11:14	61801	EELI_T2	1	1	0	0.2	0.4	0.2	-0.24	-0.25	1	1	0	600	600	0
8/19/2024 11:14	61802	EELI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/19/2024 11:15	61302	EARL_T1	0	0	0	0	0	0	0.72	0.78	3	3	0	2700	2700	0
8/19/2024 11:19	64204	KINZ_T1	2	3	1	0.6	0.47	-0.13	0	0	0	0	0	0	0	0
8/19/2024 11:19	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.7	1	1	0	900	900	0
8/19/2024 11:19	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/19/2024 11:19	64203	KINZ_T1	2	2	0	1.3	1.25	-0.05	0.52	0.31	3	3	0	2100	2100	0
8/19/2024 11:20	67605	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/19/2024 11:20	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 11:21	67002	STHI_T2	0	0	0	0	0	0	1.33	1.3	0	0	0	0	0	0
8/19/2024 11:21	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/19/2024 11:22	66504	SMAN_T2	0	0	0	0	0	0	-1.42	-1.38	2	2	0	2400	2400	0
8/19/2024 11:22	21701	SUBU_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
8/19/2024 11:22	21705	SUBU_T1	1	1	0	5.6	5.8	0.2	0.09	0.11	1	1	0	1200	1200	0
8/19/2024 11:22	66505	SMAN_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
8/19/2024 11:25	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/19/2024 11:25	11602	CEAL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 11:25	66505	SMAN_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
8/19/2024 11:25	67002	STHI_T2	0	0	0	0	0	0	1.33	1.3	0	0	0	0	0	0
8/19/2024 11:25	66504	SMAN_T2	0	0	0	0	0	0	-0.71	-0.69	1	1	0	1200	1200	0
8/19/2024 11:26	46005	BERW_T1	0	12	12	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 11:26	15801	WGAT_T1	3	1	-2	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
8/19/2024 11:26	46001	BERW_T1	0	0	0	0	0	0	-1.27	-1.21	0	0	0	0	0	0
8/19/2024 11:26	67702	WERN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/19/2024 11:26	67703	WERN_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	1	1	0	900	900	0
8/19/2024 11:26	15803	WGAT_T1	0	0	0	0	0	0	1.04	1.1	0	0	0	0	0	0
8/19/2024 11:28	17804	GILB_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/19/2024 11:28	17805	GILB_T2	0	0	0	0	0	0	0.49	0.55	0	0	0	0	0	0
8/19/2024 11:29	61306	EARL_T1	0	0	0	0	0	0	-1.14	-1.15	0	0	0	0	0	0
8/19/2024 11:31	17805	GILB_T2	0	0	0	0	0	0	0.49	0.55	0	0	0	0	0	0
8/19/2024 11:32	17805	GILB_T2	0	0	0	0	0	0	0.49	0.55	0	0	0	0	0	0
8/19/2024 11:33	17804	GILB_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
8/19/2024 11:35	15702	TANN_T2	0	5	5	0	0.24	0.24	-0.38	-0.32	0	0	0	0	0	0
8/19/2024 11:35	15703	TANN_T2	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
8/19/2024 11:36	65901	SAKR_T2	1	1	0	6.9	7.2	0.3	-0.57	-0.67	2	2	0	1500	1500	0
8/19/2024 11:36	15703	TANN_T2	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
8/19/2024 11:36	15702	TANN_T2	0	5	5	0	0.24	0.24	-0.32	-0.36	0	0	0	0	0	0
8/19/2024 11:40	15703	TANN_T2	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
8/19/2024 11:40	15702	TANN_T2	0	5	5	0	0.24	0.24	-0.32	-0.36	0	0	0	0	0	0
8/19/2024 11:43	17805	GILB_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
8/19/2024 11:44	17804	GILB_T2	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
8/19/2024 11:46	11101	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/19/2024 11:46	11102	EGYP_T1	1	6	5	1.7	0.8	-0.9	0	0	0	0	0	0	0	0
8/19/2024 11:46	17805	GILB_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
8/19/2024 11:46	11104	EGYP_T1	6	7	1	1.07	1.22	0.15	1.06	1.08	0	0	0	0	0	0
8/19/2024 11:47	11101	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/19/2024 11:47	11102	EGYP_T1	1	6	5	1.7	0.8	-0.9	0	0	0	0	0	0	0	0
8/19/2024 11:47	12505	MITR_T2	0	0	0	0	0	0	1.25	1.35	0	0	0	0	0	0
8/19/2024 11:47	12502	MITR_T2	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
8/19/2024 11:47	64302	LINC_T2	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/19/2024 11:47	12501	MITR_T2	1	1	0	4.6	1.5	-3.1	0	0	0	0	0	0	0	0
8/19/2024 11:47	11104	EGYP_T1	6	7	1	1.07	1.22	0.15	1.06	1.08	0	0	0	0	0	0
8/19/2024 11:48	43802	SWIL_T1	0	0	0	0	0	0	0.24	0.29	1	1	0	600	600	0
8/19/2024 11:48	43801	SWIL_T1	2	2	0	2.65	2.55	-0.1	0	0	0	0	0	0	0	0
8/19/2024 11:49	67605	WARW_T1	1	1	0	0.5	0.5	0	-1.64	-1.51	0	0	0	0	0	0
8/19/2024 11:50	64305	LINC_T1	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
8/19/2024 11:51	11205	ELHE_T1	1	1	0	9.5	0	-9.5	-1.35	-1.33	1	1	0	1200	1200	0
8/19/2024 11:52	11102	EGYP_T1	1	6	5	1.7	0.8	-0.9	0	0	0	0	0	0	0	0
8/19/2024 11:52	11104	EGYP_T1	6	7	1	1.07	1.22	0.15	1.08	1.06	0	0	0	0	0	0
8/19/2024 11:52	11101	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/19/2024 11:54	67401	WAKE_T2	0	0	0	0	0	0	-0.65	-0.61	0	0	0	0	0	0
8/19/2024 11:54	44302	BEAV_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/19/2024 11:54	44301	BEAV_T2	2	1	-1	0.6	0.6	0	0	0	0	0	0	0	0	0
8/19/2024 11:55	67002	STHI_T2	0	0	0	0	0	0	1.32	1.29	0	0	0	0	0	0
8/19/2024 11:55	67001	STHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/19/2024 11:56	45501	DERR_T2	0	0	0	0	0	0	1.04	0.87	2	2	0	1800	1800	0
8/19/2024 11:56	45502	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/19/2024 11:56	67402	WAKE_T2	0	0	0	0	0	0	-0.03	-0.05	1	1	0	600	600	0
8/19/2024 11:58	47203	FAXO_T2	0	0	0	0	0	0	-1.22	-1.18	1	1	0	1200	1200	0
8/19/2024 11:58	47202	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 11:59	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 11:59	45502	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/19/2024 11:59	16101	BING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/19/2024 11:59	46002	BERW_T2	0	0	0	0	0	0	-0.77	-0.95	1	1	0	900	900	0
8/19/2024 11:59	45501	DERR_T2	0	0	0	0	0	0	1.04	0.87	2	2	0	1800	1800	0
8/19/2024 11:59	16103	BING_T2	0	0	0	0	0	0	-1.44	-1.41	2	2	0	1500	1500	0
8/19/2024 11:59	16102	BING_T2	3	0	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/19/2024 12:00	21206	ECAR_T2	1	0	-1	7	7.3	0.3	0.54	0.54	0	0	0	0	0	0
8/19/2024 12:00	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 12:00	66703	STRA_T1	0	0	0	0	0	0	-0.18	-0.29	0	0	0	0	0	0
8/19/2024 12:01	11507	FREE_T2	1	1	0	0.8	0.7	-0.1	0.47	0.4	0	0	0	0	0	0
8/19/2024 12:02	17805	GILB_T2	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
8/19/2024 12:04	63601	LETO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 12:04	64704	LITI_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/19/2024 12:04	63602	LETO_T1	0	0	0	0	0	0	-0.28	-0.72	2	2	0	1200	1200	0
8/19/2024 12:06	22701	MINO_T1	0	0	0	0	0	0	-0.62	-0.67	1	1	0	600	600	0
8/19/2024 12:12	43102	SMIL_T2	1	1	0	0	0	0	-0.48	-0.49	1	1	0	600	600	0
8/19/2024 12:12	44301	BEAV_T2	1	1	0	1.1	0.6	-0.5	-1.31	-1.17	2	2	0	1500	1500	0
8/19/2024 12:12	44302	BEAV_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/19/2024 12:12	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 12:12	13704	SCHN_T2	1	2	1	0.2	0	-0.2	0.43	-0.35	0	0	0	0	0	0
8/19/2024 12:13	17805	GILB_T2	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
8/19/2024 12:13	44301	BEAV_T2	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
8/19/2024 12:13	44302	BEAV_T2	0	1	1	0	1	1	0.39	0.39	0	0	0	0	0	0
8/19/2024 12:14	44302	BEAV_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/19/2024 12:14	44301	BEAV_T2	1	1	0	1.1	0.6	-0.5	-1.31	-1.17	2	2	0	1500	1500	0
8/19/2024 12:15	44301	BEAV_T2	1	2	1	0.6	0.7	0.1	-1.31	-1.17	2	2	0	1500	1500	0
8/19/2024 12:15	10903	COOP_T2	0	0	0	0	0	0	0.7	0.74	1	1	0	600	600	0
8/19/2024 12:15	44302	BEAV_T2	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
8/19/2024 12:16	66703	STRA_T1	0	0	0	0	0	0	-0.29	-0.19	0	0	0	0	0	0
8/19/2024 12:17	13503	MCMI_T2	23	4	-19	0.33	0.35	0.02	-0.74	-0.74	0	0	0	0	0	0
8/19/2024 12:17	13502	MCMI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/19/2024 12:18	13502	MCMI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/19/2024 12:18	13503	MCMI_T2	23	4	-19	0.33	0.35	0.02	-1.47	-1.49	0	0	0	0	0	0
8/19/2024 12:18	13501	MCMI_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
8/19/2024 12:20	12606	MACA_T1	0	8	8	0	0	0	0.29	0.32	1	1	0	900	900	0
8/19/2024 12:20	12601	MACA_T1	1	2	1	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
8/19/2024 12:23	12601	MACA_T1	1	2	1	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
8/19/2024 12:23	12606	MACA_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 12:23	12604	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 12:25	14801	TREI_T2	3	3	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/19/2024 12:25	60301	TWVA_T2	0	0	0	0	0	0	-3.21	-3.83	3	3	0	2700	2700	0
8/19/2024 12:25	14802	TREI_T2	0	0	0	0	0	0	1.19	1.17	0	0	0	0	0	0
8/19/2024 12:26	14404	SSLA_T1	64	109	45	0.9	1.01	0.11	0	0	0	0	0	0	0	0
8/19/2024 12:26	14403	SSLA_T1	3	1	-2	0.33	0	-0.33	0.86	0.19	0	1	1	0	600	600
8/19/2024 12:28	65604	QVIL_T2	0	0	0	0	0	0	0.97	0.96	0	0	0	0	0	0
8/19/2024 12:28	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 12:29	11805	FRAN_T1	0	0	0	0	0	0	-1.78	-1.83	1	1	0	1200	1200	0
8/19/2024 12:29	11804	FRAN_T1	5	9	4	0.48	0.15	-0.33	0	0	0	0	0	0	0	0
8/19/2024 12:31	65603	QVIL_T2	0	0	0	0	0	0	-0.27	0.21	0	0	0	0	0	0
8/19/2024 12:35	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/19/2024 12:35	64902	MILL_T2	0	0	0	0	0	0	-0.71	-0.7	1	1	0	900	900	0
8/19/2024 12:37	67203	TEHI_T1	26	24	-2	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
8/19/2024 12:37	44201	POIN_T1	0	0	0	0	0	0	-1.35	-0.92	2	2	0	2100	2100	0
8/19/2024 12:37	67201	TEHI_T1	1	9	8	0.1	0.47	0.37	1.2	0.83	2	2	0	1500	1500	0
8/19/2024 12:38	44201	POIN_T1	0	0	0	0	0	0	-1.35	-0.92	2	2	0	2100	2100	0
8/19/2024 12:41	15803	WGAT_T1	0	0	0	0	0	0	1.12	1.13	0	0	0	0	0	0
8/19/2024 12:44	11102	EGYP_T1	7	3	-4	0.7	1.7	1	0	0	0	0	0	0	0	0
8/19/2024 12:44	11101	EGYP_T1	1	1	0	1.3	0.4	-0.9	0	0	0	0	0	0	0	0
8/19/2024 12:44	11104	EGYP_T1	5	5	0	1.7	0	-1.7	-0.21	1.63	2	0	-2	1800	0	-1800
8/19/2024 12:47	63302	GREE_T1	0	1	1	0	0	0	0.23	0.25	0	0	0	0	0	0
8/19/2024 12:48	65402	MARI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 12:48	63401	HONY_T1	0	0	0	0	0	0	-0.04	0.17	1	1	0	600	600	0
8/19/2024 12:48	65401	MARI_T1	2	8	6	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/19/2024 12:49	63602	LETO_T1	0	0	0	0	0	0	-0.43	-0.33	2	2	0	1200	1200	0
8/19/2024 12:55	14201	EALL_T1	0	0	0	0	0	0	0.5	0.59	0	0	0	0	0	0
8/19/2024 12:57	10805	CHHI_T2	1	1	0	8.9	8.8	-0.1	-0.58	-0.48	2	2	0	1800	1800	0
8/19/2024 12:57	10801	CHHI_T1	3	2	-1	0.73	0.4	-0.33	-0.52	-0.56	2	2	0	1500	1500	0
8/19/2024 13:00	66302	MCGO_T2	0	0	0	0	0	0	-1.19	-1.12	1	1	0	600	600	0
8/19/2024 13:01	67603	WARW_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
8/19/2024 13:02	67603	WARW_T1	0	0	0	0	0	0	2.14	2.22	0	0	0	0	0	0
8/19/2024 13:05	63401	HONY_T1	0	0	0	0	0	0	0.17	0.23	1	1	0	600	600	0
8/19/2024 13:08	15405	WALL_T1	0	0	0	0	0	0	-1.14	-1.1	0	0	0	0	0	0
8/19/2024 13:08	15401	WALL_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
8/19/2024 13:10	10206	ALLE_T2	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
8/19/2024 13:10	10102	ALLE_T2	1	1	0	7.8	7.8	0	0	0	0	0	0	0	0	0
8/19/2024 13:10	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 13:11	61102	BERK_T5	0	0	0	0	0	0	1.5	1.49	2	2	0	600	600	0
8/19/2024 13:11	60803	BUCK_T1	0	0	0	0	0	0	-0.25	-0.89	1	1	0	600	600	0
8/19/2024 13:12	61102	BERK_T5	0	0	0	0	0	0	2.25	2.24	3	3	0	900	900	0
8/19/2024 13:13	43103	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/19/2024 13:13	43102	SMIL_T2	1	4	3	0	0.3	0.3	0	0	0	0	0	0	0	0
8/19/2024 13:13	61102	BERK_T5	0	0	0	0	0	0	0.75	0.75	1	1	0	300	300	0
8/19/2024 13:13	66703	STRA_T1	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
8/19/2024 13:13	63303	GREE_T1	0	0	0	0	0	0	0.39	0.29	2	2	0	1800	1800	0
8/19/2024 13:13	43101	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/19/2024 13:13	43108	SMIL_T2	0	0	0	0	0	0	-0.81	-0.84	1	1	0	1200	1200	0
8/19/2024 13:14	66703	STRA_T1	0	0	0	0	0	0	-0.09	-0.14	0	0	0	0	0	0
8/19/2024 13:15	23401	HONE_T2	0	0	0	0	0	0	0.08	0.03	0	0	0	0	0	0
8/19/2024 13:15	61303	EARL_T1	0	0	0	0	0	0	1.02	0.96	0	0	0	0	0	0
8/19/2024 13:16	66703	STRA_T1	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
8/19/2024 13:16	64701	LITI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/19/2024 13:16	11406	FARM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 13:16	11405	FARM_T1	0	0	0	0	0	0	0.04	0.08	1	1	0	1200	1200	0
8/19/2024 13:18	63401	HONY_T1	0	0	0	0	0	0	0.23	0.16	1	1	0	600	600	0
8/19/2024 13:19	67604	WARW_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
8/19/2024 13:21	63401	HONY_T1	0	0	0	0	0	0	0.16	0.26	1	1	0	600	600	0
8/19/2024 13:21	28102	TWLA_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
8/19/2024 13:22	11903	ETOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 13:22	12402	MILF_T1	73	31	-42	0.67	0.16	-0.51	0.36	0.39	1	1	0	1200	1200	0
8/19/2024 13:24	16302	ALPA_T2	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
8/19/2024 13:25	61102	BERK_T5	0	0	0	0	0	0	0.75	0.79	1	1	0	300	300	0
8/19/2024 13:26	16302	ALPA_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
8/19/2024 13:27	67503	WEWI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
8/19/2024 13:27	11406	FARM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 13:27	11405	FARM_T1	0	0	0	0	0	0	0.08	0.11	1	1	0	1200	1200	0
8/19/2024 13:27	67502	WEWI_T2	0	0	0	0	0	0	-0.49	-0.56	1	1	0	900	900	0
8/19/2024 13:27	61102	BERK_T5	0	0	0	0	0	0	0.75	0.79	1	1	0	300	300	0
8/19/2024 13:28	16302	ALPA_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
8/19/2024 13:28	61102	BERK_T5	0	0	0	0	0	0	1.49	1.57	2	2	0	600	600	0
8/19/2024 13:28	44301	BEAV_T2	2	2	0	0.45	1.15	0.7	0	0	0	0	0	0	0	0
8/19/2024 13:29	11804	FRAN_T1	20	29	9	0.63	0.71	0.08	1.83	1.96	0	0	0	0	0	0
8/19/2024 13:45	10805	CHHI_T2	1	13	12	8.8	3.17	-5.63	-0.64	-0.63	2	2	0	1800	1800	0
8/19/2024 13:49	67605	WARW_T1	0	1	1	0	0.7	0.7	-0.64	-0.65	0	0	0	0	0	0
8/19/2024 13:57	67401	WAKE_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
8/19/2024 13:58	46001	BERW_T1	1	0	-1	1.2	1.6	0.4	-1.26	-1.27	0	0	0	0	0	0
8/19/2024 13:59	21204	ECAR_T2	1	2	1	0	0	0	-0.41	-0.4	0	0	0	0	0	0
8/19/2024 13:59	21206	ECAR_T2	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
8/19/2024 14:02	42903	MIDD_T2	0	0	0	0	0	0	0.95	1.03	1	1	0	1200	1200	0
8/19/2024 14:02	42902	MIDD_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/19/2024 14:02	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 14:03	67604	WARW_T1	0	0	0	0	0	0	0.53	0.44	0	0	0	0	0	0
8/19/2024 14:03	67605	WARW_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/19/2024 14:07	64902	MILL_T2	0	0	0	0	0	0	-0.59	-0.68	1	1	0	900	900	0
8/19/2024 14:07	42902	MIDD_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/19/2024 14:07	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 14:07	42903	MIDD_T2	0	0	0	0	0	0	1.03	0.8	1	1	0	1200	1200	0
8/19/2024 14:09	16302	ALPA_T2	0	0	0	0	0	0	0.1	0.06	0	0	0	0	0	0
8/19/2024 14:10	67503	WEWI_T2	1	1	0	4.9	5.2	0.3	0.51	0.53	0	0	0	0	0	0
8/19/2024 14:10	43301	WATS_T2	1	0	-1	0.2	0	-0.2	-0.59	-0.66	2	2	0	1800	1800	0
8/19/2024 14:11	16302	ALPA_T2	0	0	0	0	0	0	0.1	0.06	0	0	0	0	0	0
8/19/2024 14:12	16302	ALPA_T2	0	0	0	0	0	0	0.1	0.06	0	0	0	0	0	0
8/19/2024 14:13	16302	ALPA_T2	0	0	0	0	0	0	0.1	0.06	0	0	0	0	0	0
8/19/2024 14:15	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/19/2024 14:17	67605	WARW_T1	1	1	0	0.7	0.5	-0.2	-2.44	-2.6	0	0	0	0	0	0
8/19/2024 14:19	65005	NEFF_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
8/19/2024 14:24	67502	WEWI_T2	0	0	0	0	0	0	-0.6	-0.57	1	1	0	900	900	0
8/19/2024 14:24	67503	WEWI_T2	1	1	0	4.9	5.5	0.6	0	0	0	0	0	0	0	0
8/19/2024 14:25	13903	SEID_T1	3	3	0	0.63	0.7	0.07	0	0	0	0	0	0	0	0
8/19/2024 14:25	13905	SEID_T1	0	0	0	0	0	0	-0.38	-0.4	1	1	0	1200	1200	0
8/19/2024 14:30	63801	HEMP_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/19/2024 14:30	63804	HEMP_T1	1	1	0	6.8	6.2	-0.6	-1.16	-1.16	0	0	0	0	0	0
8/19/2024 14:31	63801	HEMP_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/19/2024 14:31	63804	HEMP_T1	1	1	0	6.8	6.2	-0.6	0	0	0	0	0	0	0	0
8/19/2024 14:31	63802	HEMP_T1	0	0	0	0	0	0	1.18	1.2	0	0	0	0	0	0
8/19/2024 14:37	22701	MINO_T1	0	0	0	0	0	0	-0.61	-0.63	1	1	0	600	600	0
8/19/2024 14:41	67801	WLAN_T1	0	0	0	0	0	0	-0.97	-0.9	0	0	0	0	0	0
8/19/2024 14:41	67804	WLAN_T1	1	4	3	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/19/2024 14:47	65501	MOJO_T1	0	0	0	0	0	0	-0.6	-0.64	1	1	0	900	900	0
8/19/2024 14:50	65501	MOJO_T1	0	0	0	0	0	0	-0.6	-0.64	1	1	0	900	900	0
8/19/2024 14:52	44203	POIN_T2	0	0	0	0	0	0	-0.08	-0.24	2	2	0	2100	2100	0
8/19/2024 14:52	44202	POIN_T2	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
8/19/2024 15:01	67602	WARW_T2	0	0	0	0	0	0	0.69	0.69	1	1	0	300	300	0
8/19/2024 15:03	11102	EGYP_T1	1	1	0	0.4	0.6	0.2	0.33	0.31	0	0	0	0	0	0
8/19/2024 15:03	11104	EGYP_T1	5	5	0	0.3	0.38	0.08	0	0	0	0	0	0	0	0
8/19/2024 15:03	11101	EGYP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/19/2024 15:04	64101	REFR_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
8/19/2024 15:05	64101	REFR_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
8/19/2024 15:06	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 15:07	64101	REFR_T1	0	0	0	0	0	0	0.36	0.42	0	0	0	0	0	0
8/19/2024 15:09	64101	REFR_T1	0	0	0	0	0	0	0.73	0.83	0	0	0	0	0	0
8/19/2024 15:10	64101	REFR_T1	0	0	0	0	0	0	0.36	0.42	0	0	0	0	0	0
8/19/2024 15:12	61502	EPET_T1	0	0	0	0	0	0	-2.03	-1.94	0	0	0	0	0	0
8/19/2024 15:13	67503	WEWI_T2	1	1	0	5.6	5.6	0	0.52	0.49	0	0	0	0	0	0
8/19/2024 15:18	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 15:18	46503	LOHA_T1	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
8/19/2024 15:18	46801	HEPB_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/19/2024 15:18	46803	HEPB_T2	0	0	0	0	0	0	0.54	0.57	0	0	0	0	0	0
8/19/2024 15:20	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 15:20	46503	LOHA_T1	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
8/19/2024 15:30	63804	HEMP_T1	1	2	1	6.6	6.5	-0.1	-1.19	-1.18	0	0	0	0	0	0
8/19/2024 15:32	40901	JESH_T1	1	1	0	1.3	1	-0.3	0.61	0.68	0	0	0	0	0	0
8/19/2024 15:36	42902	MIDD_T2	0	0	0	0	0	0	-0.44	-0.56	1	1	0	600	600	0
8/19/2024 15:43	66703	STRA_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
8/19/2024 15:45	66703	STRA_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
8/19/2024 15:46	63804	HEMP_T1	1	2	1	6.7	6.3	-0.4	-1.18	-1.07	0	0	0	0	0	0
8/19/2024 15:46	61301	EARL_T1	0	0	0	0	0	0	-0.94	-0.94	2	2	0	1800	1800	0
8/19/2024 15:47	42902	MIDD_T2	0	0	0	0	0	0	-0.44	-0.56	1	1	0	600	600	0
8/19/2024 15:51	14801	TREI_T2	0	0	0	0	0	0	0.46	0.49	0	0	0	0	0	0
8/19/2024 15:52	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/19/2024 15:52	64204	KINZ_T1	1	3	2	1	0.57	-0.43	0	0	0	0	0	0	0	0
8/19/2024 15:52	64203	KINZ_T1	1	1	0	0.9	0.5	-0.4	0.15	0.22	3	3	0	2100	2100	0
8/19/2024 15:56	67201	TEHI_T1	7	5	-2	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
8/19/2024 15:56	67203	TEHI_T1	1	1	0	0.4	0.4	0	2.21	2.19	3	3	0	2100	2100	0
8/19/2024 15:58	47401	PENS_T1	0	0	0	0	0	0	1.64	1.63	0	0	0	0	0	0
8/19/2024 15:58	47403	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/19/2024 15:58	67505	WEWI_T1	0	0	0	0	0	0	0.74	0.66	1	1	0	900	900	0
8/19/2024 16:01	45702	LIND_T2	1	1	0	1.4	1.6	0.2	-1.62	-1.57	0	0	0	0	0	0
8/19/2024 16:02	22701	MINO_T1	0	0	0	0	0	0	-0.7	-0.69	1	1	0	600	600	0
8/19/2024 16:03	42902	MIDD_T2	0	0	0	0	0	0	-0.56	-0.14	1	0	-1	600	0	-600
8/19/2024 16:03	42903	MIDD_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
8/19/2024 16:08	64101	REFR_T1	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
8/19/2024 16:08	66504	SMAN_T2	0	0	0	0	0	0	-0.53	-0.44	1	1	0	1200	1200	0
8/19/2024 16:11	43302	WATS_T2	3	4	1	0.2	0.85	0.65	0	0	0	0	0	0	0	0
8/19/2024 16:11	43301	WATS_T2	1	1	0	0.2	0.3	0.1	-0.35	-0.32	1	1	0	900	900	0
8/19/2024 16:12	61506	EPET_T2	0	0	0	0	0	0	-0.34	-0.18	1	1	0	900	900	0
8/19/2024 16:12	43302	WATS_T2	3	4	1	0.2	0.85	0.65	0	0	0	0	0	0	0	0
8/19/2024 16:12	61501	EPET_T2	1	1	0	5.4	5	-0.4	0	0	0	0	0	0	0	0
8/19/2024 16:12	43301	WATS_T2	1	1	0	0.2	0.3	0.1	-0.35	-0.32	1	1	0	900	900	0
8/19/2024 16:14	21206	ECAR_T2	1	1	0	7.9	7.7	-0.2	0.04	0.01	0	0	0	0	0	0
8/19/2024 16:14	21204	ECAR_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/19/2024 16:17	46602	LACR_T1	7	6	-1	0.1	0.12	0.02	-0.58	-0.59	0	0	0	0	0	0
8/19/2024 16:23	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/19/2024 16:23	65205	PRIN_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
8/19/2024 16:24	15402	WALL_T1	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
8/19/2024 16:29	61701	ELIZ_T1	1	1	0	1.1	1.4	0.3	3.87	3.67	0	0	0	0	0	0
8/19/2024 16:29	26401	INOR_T1	1	1	0	5.9	7.1	1.2	0	0	0	0	0	0	0	0
8/19/2024 16:29	26402	INOR_T1	0	0	0	0	0	0	-1.61	-1.64	1	1	0	600	600	0
8/19/2024 16:29	61703	ELIZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/19/2024 16:32	63401	HONY_T1	0	0	0	0	0	0	0	0.11	1	1	0	600	600	0
8/19/2024 16:33	61701	ELIZ_T1	1	1	0	1.2	1.7	0.5	1.93	1.83	0	0	0	0	0	0
8/19/2024 16:37	65901	SAKR_T2	1	1	0	7.5	7.8	0.3	0	0	0	0	0	0	0	0
8/19/2024 16:37	65904	SAKR_T2	0	0	0	0	0	0	-1.66	-1.69	2	3	1	1200	1500	300
8/19/2024 16:40	14802	TREI_T2	0	0	0	0	0	0	0.95	0.96	0	0	0	0	0	0
8/19/2024 16:40	14801	TREI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 16:59	63804	HEMP_T1	1	1	0	6.5	5.7	-0.8	-1.25	-1.32	0	0	0	0	0	0
8/19/2024 17:08	64501	LAVI_T1	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
8/19/2024 17:14	63306	GREE_T1	1	0	-1	0.1	0	-0.1	-1.64	-1.73	1	1	0	900	900	0
8/19/2024 17:14	63304	GREE_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
8/19/2024 17:14	63305	GREE_T1	8	14	6	0.24	0.36	0.12	0	0	0	0	0	0	0	0
8/19/2024 17:16	25501	MADI_T1	4	4	0	1.38	1.98	0.6	0	0	0	0	0	0	0	0
8/19/2024 17:16	25503	MADI_T1	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
8/19/2024 17:22	14402	SSLA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/19/2024 17:22	14403	SSLA_T1	0	0	0	0	0	0	0.03	0.01	1	1	0	600	600	0
8/19/2024 17:22	14404	SSLA_T1	8	18	10	0.61	0.54	-0.07	0	0	0	0	0	0	0	0
8/19/2024 17:26	45501	DERR_T2	0	0	0	0	0	0	0.89	0.8	2	2	0	1800	1800	0
8/19/2024 17:42	60201	ATGL_T2	0	0	0	0	0	0	-0.09	-0.21	2	2	0	900	900	0
8/19/2024 17:50	44903	SCOT_T1	0	0	0	0	0	0	0.72	0.7	0	0	0	0	0	0
8/19/2024 17:50	64101	REFR_T1	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
8/19/2024 17:50	60502	NMAN_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
8/19/2024 17:50	65502	MOJO_T2	0	3	3	0	0.1	0.1	-0.87	-1	1	1	0	900	900	0
8/19/2024 17:52	64101	REFR_T1	0	0	0	0	0	0	0.83	0.83	0	0	0	0	0	0
8/19/2024 17:54	44902	SCOT_T2	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
8/19/2024 17:54	44901	SCOT_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
8/19/2024 18:00	10707	CATA_T2	0	0	0	0	0	0	0.84	0.8	0	0	0	0	0	0
8/19/2024 18:05	64101	REFR_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
8/19/2024 18:06	64101	REFR_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
8/19/2024 18:08	15601	NSTR_T2	2	3	1	0.15	0.7	0.55	0	0	0	0	0	0	0	0
8/19/2024 18:08	15603	NSTR_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
8/19/2024 18:10	21701	SUBU_T1	1	1	0	6.5	6.2	-0.3	0	0	0	0	0	0	0	0
8/19/2024 18:10	21705	SUBU_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
8/19/2024 18:10	21703	SUBU_T1	0	0	0	0	0	0	0.91	0.9	0	0	0	0	0	0
8/19/2024 18:11	67801	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 18:11	67805	WLAN_T1	0	1	1	0	0	0	-1	-1.03	0	0	0	0	0	0
8/19/2024 18:32	63602	LETO_T1	0	0	0	0	0	0	-0.41	-0.57	1	1	0	600	600	0
8/19/2024 18:36	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 18:38	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 18:39	42802	SELI_T1	0	0	0	0	0	0	-1.06	-1.04	1	1	0	900	900	0
8/19/2024 18:41	42802	SELI_T1	0	0	0	0	0	0	-1.06	-1.04	1	1	0	900	900	0
8/19/2024 18:53	65502	MOJO_T2	0	13	13	0	0.11	0.11	-1.18	-1.17	1	1	0	900	900	0
8/19/2024 18:58	11101	EGYP_T1	0	0	0	0	0	0	-0.44	-0.44	1	1	0	1200	1200	0
8/19/2024 18:58	63305	GREE_T1	0	2	2	0	0	0	-1.02	-1.03	0	0	0	0	0	0
8/19/2024 18:58	11102	EGYP_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/19/2024 18:58	11104	EGYP_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
8/19/2024 18:59	10705	CATA_T2	0	0	0	0	0	0	-0.55	-0.59	0	0	0	0	0	0
8/19/2024 19:03	63305	GREE_T1	0	2	2	0	0	0	-1.02	-1.03	0	0	0	0	0	0
8/19/2024 19:27	22701	MINO_T1	0	0	0	0	0	0	-0.7	-0.76	1	1	0	600	600	0
8/19/2024 20:28	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 20:31	10801	CHHI_T1	0	0	0	0	0	0	-0.89	-0.96	2	2	0	1500	1500	0
8/19/2024 21:00	61701	ELIZ_T1	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
8/19/2024 21:00	61703	ELIZ_T1	0	0	0	0	0	0	-2.82	-2.73	2	2	0	2100	2100	0
8/19/2024 21:01	61703	ELIZ_T1	0	0	0	0	0	0	-2.82	-2.73	2	2	0	2100	2100	0
8/19/2024 21:01	61701	ELIZ_T1	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
8/19/2024 21:03	61701	ELIZ_T1	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
8/19/2024 21:03	61703	ELIZ_T1	0	0	0	0	0	0	-2.82	-2.73	2	2	0	2100	2100	0
8/19/2024 21:08	64802	MONE_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
8/19/2024 21:08	64801	MONE_T2	0	1	1	0.5	0.5	0	0	0	0	0	0	0	0	0
8/19/2024 21:15	14801	TREI_T2	33	46	13	0.19	0.23	0.04	-0.11	-0.18	0	0	0	0	0	0
8/19/2024 21:22	12302	LANA_T2	0	0	0	0	0	0	-2.46	-2.49	3	3	0	2700	2700	0
8/19/2024 21:29	61303	EARL_T1	0	0	0	0	0	0	0.3	0.25	0	0	0	0	0	0
8/19/2024 21:30	60803	BUCK_T1	11	2	-9	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
8/19/2024 21:30	60801	BUCK_T1	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
8/19/2024 21:32	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 21:37	60101	COCA_T1	0	0	0	0	0	0	1.05	1.02	2	2	0	1200	1200	0
8/19/2024 21:37	17802	GILB_T1	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
8/19/2024 21:38	23102	MOSC_T2	0	0	0	0	0	0	-1.12	-1.18	2	2	0	1800	1800	0
8/19/2024 21:39	67002	STHI_T2	0	2	2	0	0.15	0.15	1.16	1.09	0	0	0	0	0	0
8/19/2024 21:39	47401	PENS_T1	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
8/19/2024 21:39	65901	SAKR_T2	1	1	0	8.2	8.5	0.3	-0.72	-0.68	1	1	0	900	900	0
8/19/2024 21:39	47403	PENS_T1	1	0	-1	2.2	0	-2.2	0	0	0	0	0	0	0	0
8/19/2024 21:39	67001	STHI_T2	0	239	239	0	0.16	0.16	0	0	0	0	0	0	0	0
8/19/2024 21:40	11104	EGYP_T1	2	0	-2	0.1	0	-0.1	0.35	0.36	0	0	0	0	0	0
8/19/2024 21:40	61701	ELIZ_T1	1	1	0	3	3.4	0.4	1.45	1.52	0	0	0	0	0	0
8/19/2024 21:40	17805	GILB_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
8/19/2024 21:41	61102	BERK_T5	0	0	0	0	0	0	0.87	0.92	1	1	0	300	300	0
8/19/2024 21:42	15603	NSTR_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
8/19/2024 21:42	10805	CHHI_T2	1	1	0	7.1	7	-0.1	-0.73	-0.81	1	1	0	600	600	0
8/19/2024 21:43	10805	CHHI_T2	1	1	0	7.1	7	-0.1	-0.73	-0.81	1	1	0	600	600	0
8/19/2024 21:43	16402	MOPO_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
8/19/2024 21:44	12807	MICK_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
8/19/2024 21:44	14801	TREI_T2	46	32	-14	0.23	0.18	-0.05	-0.15	-0.14	0	0	0	0	0	0
8/19/2024 21:44	12801	MICK_T1	0	0	0	0	0	0	-0.79	-0.81	1	1	0	600	600	0
8/19/2024 21:44	17805	GILB_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
8/19/2024 21:45	15702	TANN_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
8/19/2024 21:45	11103	EGYP_T1	0	0	0	0	0	0	0.96	0.92	0	0	0	0	0	0
8/19/2024 21:45	11104	EGYP_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
8/19/2024 21:45	61102	BERK_T5	0	0	0	0	0	0	0.87	0.92	1	1	0	300	300	0
8/19/2024 21:45	15703	TANN_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
8/19/2024 21:46	44903	SCOT_T1	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
8/19/2024 21:46	67605	WARW_T1	4	10	6	0.2	0.27	0.07	0	0	0	0	0	0	0	0
8/19/2024 21:46	44905	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 21:46	63305	GREE_T1	3	2	-1	0.13	0.1	-0.03	-1.18	-1.19	0	0	0	0	0	0
8/19/2024 21:46	63304	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/19/2024 21:46	11101	EGYP_T1	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
8/19/2024 21:46	67603	WARW_T1	0	0	0	0	0	0	0.26	0.2	0	0	0	0	0	0
8/19/2024 21:47	16402	MOPO_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/19/2024 21:47	17805	GILB_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
8/19/2024 21:47	14201	EALL_T1	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
8/19/2024 21:47	10705	CATA_T2	0	0	0	0	0	0	-0.86	-0.93	0	0	0	0	0	0
8/19/2024 21:47	11102	EGYP_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
8/19/2024 21:47	12701	MACU_T1	4	4	0	0.3	0.5	0.2	0.21	0.19	0	0	0	0	0	0
8/19/2024 21:48	13905	SEID_T1	0	0	0	0	0	0	-0.73	-0.78	1	1	0	1200	1200	0
8/19/2024 21:48	14601	SWHI_T1	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
8/19/2024 21:48	61501	EPET_T2	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0	0
8/19/2024 21:48	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 21:48	61301	EARL_T1	0	0	0	0	0	0	-0.39	-0.41	1	1	0	900	900	0
8/19/2024 21:48	16006	DORN_T2	2	0	-2	0.55	0	-0.55	-0.27	-0.28	1	1	0	1200	1200	0
8/19/2024 21:48	61506	EPET_T2	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
8/19/2024 21:48	16302	ALPA_T2	0	0	0	0	0	0	-0.38	-0.48	0	0	0	0	0	0
8/19/2024 21:48	21206	ECAR_T2	3	3	0	3.13	8.2	5.07	0.16	0.08	0	0	0	0	0	0
8/19/2024 21:48	12402	MILF_T1	0	0	0	0	0	0	0.72	0.69	0	0	0	0	0	0
8/19/2024 21:49	25501	MADI_T1	3	3	0	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
8/19/2024 21:49	13503	MCMI_T2	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
8/19/2024 21:49	65001	NEFF_T2	0	0	0	0	0	0	-0.56	-0.64	1	1	0	1200	1200	0
8/19/2024 21:49	25503	MADI_T1	17	53	36	0.15	0.16	0.01	-0.87	-0.89	0	0	0	0	0	0
8/19/2024 21:49	65802	RTWN_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
8/19/2024 21:49	61102	BERK_T5	0	0	0	0	0	0	0.87	0.92	1	1	0	300	300	0
8/19/2024 21:49	67605	WARW_T1	4	10	6	0.2	0.27	0.07	-1.08	-1.16	0	0	0	0	0	0
8/19/2024 21:49	65003	NEFF_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/19/2024 21:50	16302	ALPA_T2	0	0	0	0	0	0	-0.38	-0.48	0	0	0	0	0	0
8/19/2024 21:50	11205	ELHE_T1	0	0	0	0	0	0	-0.49	-0.54	1	1	0	1200	1200	0
8/19/2024 21:50	13503	MCMI_T2	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
8/19/2024 21:50	11104	EGYP_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
8/19/2024 21:50	63602	LETO_T1	0	86	86	0	0.2	0.2	-0.68	-0.66	1	1	0	600	600	0
8/19/2024 21:50	67605	WARW_T1	4	10	6	0.2	0.27	0.07	0	0	0	0	0	0	0	0
8/19/2024 21:50	61102	BERK_T5	0	0	0	0	0	0	0.87	0.92	1	1	0	300	300	0
8/19/2024 21:50	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 21:50	63401	HONY_T1	0	0	0	0	0	0	0.17	0.03	1	1	0	600	600	0
8/19/2024 21:50	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/19/2024 21:50	67001	STHI_T2	59	239	180	0.1	0.16	0.06	0.31	0.33	0	0	0	0	0	0
8/19/2024 21:50	67002	STHI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/19/2024 21:50	11602	CEAL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 21:51	10707	CATA_T2	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
8/19/2024 21:51	14601	SWHI_T1	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
8/19/2024 21:51	60101	COCA_T1	0	0	0	0	0	0	0.51	0.46	1	1	0	600	600	0
8/19/2024 21:51	63304	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/19/2024 21:51	67001	STHI_T2	59	239	180	0.1	0.16	0.06	0	0	0	0	0	0	0	0
8/19/2024 21:51	67602	WARW_T2	0	0	0	0	0	0	0.37	0.41	1	1	0	300	300	0
8/19/2024 21:51	63403	HONY_T2	0	0	0	0	0	0	0.32	0.11	0	0	0	0	0	0
8/19/2024 21:51	12601	MACA_T1	1	0	-1	2.4	0	-2.4	0	0	0	0	0	0	0	0
8/19/2024 21:51	12604	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 21:51	66303	MCGO_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/19/2024 21:51	66302	MCGO_T2	0	0	0	0	0	0	-1.27	-0.66	1	1	0	600	600	0
8/19/2024 21:51	67002	STHI_T2	0	2	2	0	0.15	0.15	1.09	1.06	0	0	0	0	0	0
8/19/2024 21:51	63305	GREE_T1	3	2	-1	0.13	0.1	-0.03	-1.19	-1.21	0	0	0	0	0	0
8/19/2024 21:51	61102	BERK_T5	0	0	0	0	0	0	0.92	0.76	1	1	0	300	300	0
8/19/2024 21:51	64101	REFR_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
8/19/2024 21:51	64602	LEOL_T1	0	0	0	0	0	0	0.2	0.12	0	0	0	0	0	0
8/19/2024 21:51	17805	GILB_T2	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
8/19/2024 21:52	16102	BING_T2	12	0	-12	0.15	0	-0.15	0.55	0.51	0	0	0	0	0	0
8/19/2024 21:52	65901	SAKR_T2	1	1	0	8.5	8.5	0	0	0	0	0	0	0	0	0
8/19/2024 21:52	16006	DORN_T2	2	0	-2	0.55	0	-0.55	-0.28	-0.28	1	1	0	1200	1200	0
8/19/2024 21:52	67603	WARW_T1	0	0	0	0	0	0	0.2	0.14	0	0	0	0	0	0
8/19/2024 21:52	64101	REFR_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
8/19/2024 21:52	63304	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/19/2024 21:52	63305	GREE_T1	3	2	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
8/19/2024 21:52	65904	SAKR_T2	0	0	0	0	0	0	-1.63	-1.44	2	2	0	900	900	0
8/19/2024 21:52	11102	EGYP_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
8/19/2024 21:52	63401	HONY_T1	0	0	0	0	0	0	0.03	0.02	1	1	0	600	600	0
8/19/2024 21:52	61102	BERK_T5	0	0	0	0	0	0	1.85	1.52	2	2	0	600	600	0
8/19/2024 21:52	66504	SMAN_T2	0	0	0	0	0	0	-0.01	-0.12	0	0	0	0	0	0
8/19/2024 21:52	66505	SMAN_T2	1	3	2	0.1	0.17	0.07	0.24	0.22	2	2	0	1500	1500	0
8/19/2024 21:52	63306	GREE_T1	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
8/19/2024 21:52	67605	WARW_T1	4	10	6	0.2	0.27	0.07	-2.31	-2.34	0	0	0	0	0	0
8/19/2024 21:52	16302	ALPA_T2	0	0	0	0	0	0	-0.48	-0.52	0	0	0	0	0	0
8/19/2024 21:53	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 21:53	61701	ELIZ_T1	1	1	0	3.2	3.4	0.2	1.52	1.43	0	0	0	0	0	0
8/19/2024 21:53	46602	LACR_T1	22	22	0	0.24	0.2	-0.04	-0.82	-0.86	0	0	0	0	0	0
8/19/2024 21:53	21206	ECAR_T2	3	3	0	3.13	8.2	5.07	0.08	0.03	0	0	0	0	0	0
8/19/2024 21:53	67605	WARW_T1	4	10	6	0.2	0.27	0.07	-1.16	-1.17	0	0	0	0	0	0
8/19/2024 21:54	15703	TANN_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
8/19/2024 21:54	64201	KINZ_T1	0	1	1	0	0.9	0.9	-0.55	-0.4	3	3	0	1500	1500	0
8/19/2024 21:54	66502	SMAN_T2	0	0	0	0	0	0	0.12	0.03	0	0	0	0	0	0
8/19/2024 21:54	16302	ALPA_T2	0	0	0	0	0	0	-0.48	-0.52	0	0	0	0	0	0
8/19/2024 21:54	10805	CHHI_T2	1	1	0	7.1	7	-0.1	-0.81	-0.81	1	1	0	600	600	0
8/19/2024 21:54	11507	FREE_T2	4	1	-3	0.4	0	-0.4	0.51	0.48	1	1	0	600	600	0
8/19/2024 21:54	10801	CHHI_T1	1	1	0	0.4	0.2	-0.2	-0.98	-1.04	2	2	0	1800	1800	0
8/19/2024 21:54	15702	TANN_T2	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
8/19/2024 21:54	66505	SMAN_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
8/19/2024 21:54	65205	PRIN_T1	1	16	15	2	0.24	-1.76	0	0	0	0	0	0	0	0
8/19/2024 21:54	67605	WARW_T1	4	10	6	0.2	0.27	0.07	-2.31	-2.34	0	0	0	0	0	0
8/19/2024 21:54	12701	MACU_T1	4	4	0	0.3	0.5	0.2	0.19	0.18	0	0	0	0	0	0
8/19/2024 21:54	64202	KINZ_T1	2	3	1	0.3	0.77	0.47	0	0	0	0	0	0	0	0
8/19/2024 21:54	64204	KINZ_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
8/19/2024 21:54	64101	REFR_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
8/19/2024 21:55	46402	FLEM_T2	590	1002	412	0.31	0.56	0.25	0	0	0	0	0	0	0	0
8/19/2024 21:55	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 21:55	17805	GILB_T2	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
8/19/2024 21:55	66504	SMAN_T2	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
8/19/2024 21:55	15703	TANN_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
8/19/2024 21:55	66505	SMAN_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
8/19/2024 21:55	60502	NMAN_T2	0	0	0	0	0	0	-0.01	-0.09	0	0	0	0	0	0
8/19/2024 21:55	26402	INOR_T1	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
8/19/2024 21:55	64101	REFR_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
8/19/2024 21:55	15702	TANN_T2	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
8/19/2024 21:55	26401	INOR_T1	1	1	0	8.6	8.9	0.3	0	0	0	0	0	0	0	0
8/19/2024 21:55	46401	FLEM_T2	472	669	197	0.38	0.57	0.19	-0.26	-0.25	0	0	0	0	0	0
8/19/2024 21:56	43802	SWIL_T1	0	0	0	0	0	0	0.03	0.04	1	1	0	600	600	0
8/19/2024 21:56	17805	GILB_T2	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
8/19/2024 21:56	28702	HAML_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
8/19/2024 21:56	12604	MACA_T1	0	0	0	0	0	0	0.46	0.43	0	0	0	0	0	0
8/19/2024 21:56	64101	REFR_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
8/19/2024 21:56	43801	SWIL_T1	2	5	3	3.35	1.36	-1.99	0	0	0	0	0	0	0	0
8/19/2024 21:56	21701	SUBU_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
8/19/2024 21:56	12601	MACA_T1	1	0	-1	2.4	0	-2.4	0	0	0	0	0	0	0	0
8/19/2024 21:56	66504	SMAN_T2	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
8/19/2024 21:56	67203	TEHI_T1	0	0	0	0	0	0	5.2	4.8	4	4	0	3000	3000	0
8/19/2024 21:56	21705	SUBU_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
8/19/2024 21:56	66505	SMAN_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
8/19/2024 21:56	13503	MCMI_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
8/19/2024 21:56	28703	HAML_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/19/2024 21:56	21703	SUBU_T1	0	0	0	0	0	0	0.69	0.7	0	0	0	0	0	0
8/19/2024 21:57	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 21:57	13704	SCHN_T2	0	0	0	0	0	0	-0.16	-0.22	0	0	0	0	0	0
8/19/2024 21:57	43801	WATS_T2	0	2	2	0	0.3	0.3	0.92	0.91	0	0	0	0	0	0
8/19/2024 21:57	60101	COCA_T1	0	0	0	0	0	0	0.51	0.46	1	1	0	600	600	0
8/19/2024 21:57	64202	KINZ_T1	2	3	1	0.3	0.77	0.47	0	0	0	0	0	0	0	0
8/19/2024 21:57	43302	WATS_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/19/2024 21:57	46203	DANV_T2	1	1	0	7.6	8.2	0.6	-0.6	-0.6	0	0	0	0	0	0
8/19/2024 21:57	44301	BEAV_T2	0	0	0	0	0	0	-0.59	-0.8	1	1	0	600	600	0
8/19/2024 21:57	64204	KINZ_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
8/19/2024 21:57	64201	KINZ_T1	0	1	1	0	0.9	0.9	-0.55	-0.4	3	3	0	1500	1500	0
8/19/2024 21:58	63804	HEMP_T1	1	1	0	5.1	5.6	0.5	-0.12	-0.15	0	0	0	0	0	0
8/19/2024 21:58	10805	CHHI_T2	1	1	0	7.1	7	-0.1	-0.81	-0.81	1	1	0	600	600	0
8/19/2024 21:58	43102	SMIL_T2	7	8	1	0.48	0.66	0.18	0	0	0	0	0	0	0	0
8/19/2024 21:58	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/19/2024 21:58	14403	SSLA_T1	0	0	0	0	0	0	0.48	0.41	0	0	0	0	0	0
8/19/2024 21:58	14404	SSLA_T1	5	5	0	2.6	2.56	-0.04	0	0	0	0	0	0	0	0
8/19/2024 21:58	46402	FLEM_T2	590	1002	412	0.31	0.56	0.25	0	0	0	0	0	0	0	0
8/19/2024 21:58	64903	MILL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 21:58	43103	SMIL_T2	4	5	1	0.28	0.46	0.18	0	0	0	0	0	0	0	0
8/19/2024 21:58	46401	FLEM_T2	472	669	197	0.38	0.57	0.19	-0.26	-0.25	0	0	0	0	0	0
8/19/2024 21:58	17804	GILB_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
8/19/2024 21:58	63803	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 21:58	64902	MILL_T2	0	0	0	0	0	0	-0.66	-0.71	2	2	0	1800	1800	0
8/19/2024 21:58	64305	LINC_T1	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
8/19/2024 21:58	43108	SMIL_T2	0	0	0	0	0	0	-1.04	-1.03	1	1	0	1200	1200	0
8/19/2024 21:59	13303	ORVI_T1	0	0	0	0	0	0	1.25	-0.17	0	0	0	0	0	0
8/19/2024 21:59	23401	HONE_T2	0	0	0	0	0	0	-0.35	-0.32	0	0	0	0	0	0
8/19/2024 21:59	14802	TREI_T2	0	0	0	0	0	0	0.57	0.52	0	0	0	0	0	0
8/19/2024 21:59	14801	TREI_T2	18	30	12	0.12	0.18	0.06	0	0	0	0	0	0	0	0
8/19/2024 21:59	16101	BING_T2	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
8/19/2024 21:59	16102	BING_T2	12	0	-12	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/19/2024 21:59	16302	ALPA_T2	0	0	0	0	0	0	-0.48	-0.52	0	0	0	0	0	0
8/19/2024 21:59	63401	HONY_T1	0	0	0	0	0	0	0.03	0.02	1	1	0	600	600	0
8/19/2024 21:59	67201	TEHI_T1	0	0	0	0	0	0	-0.38	-0.4	1	1	0	900	900	0
8/19/2024 21:59	16103	BING_T2	0	0	0	0	0	0	-1.08	-1.14	1	1	0	900	900	0
8/19/2024 22:00	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 22:00	61803	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 22:00	63602	LETO_T1	58	96	38	0.16	0.21	0.05	-0.66	-0.8	1	1	0	600	600	0
8/19/2024 22:00	63304	GREE_T1	0	0	0	0	0	0	-1.42	-1.43	0	0	0	0	0	0
8/19/2024 22:00	61801	EELI_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
8/19/2024 22:00	14404	SSLA_T1	5	3	-2	2.56	3.83	1.27	0	0	0	0	0	0	0	0
8/19/2024 22:00	63305	GREE_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/19/2024 22:00	10701	CATA_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
8/19/2024 22:00	14403	SSLA_T1	0	0	0	0	0	0	0.48	0.41	0	0	0	0	0	0
8/19/2024 22:00	15402	WALL_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
8/19/2024 22:01	66701	STRA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/19/2024 22:01	45602	WOOL_T1	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/19/2024 22:01	66703	STRA_T1	278	315	37	0.31	0.28	-0.03	-0.82	-0.88	0	0	0	0	0	0
8/19/2024 22:02	67502	WEWI_T2	6	54	48	0.22	0.16	-0.06	0	0	0	0	0	0	0	0
8/19/2024 22:02	67503	WEWI_T2	1	1	0	7.3	8	0.7	0.31	0.21	0	0	0	0	0	0
8/19/2024 22:02	46504	LOHA_T1	2	3	1	0.6	0.63	0.03	0	0	0	0	0	0	0	0
8/19/2024 22:02	46506	LOHA_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/19/2024 22:02	12701	MACU_T1	4	3	-1	0.5	0.2	-0.3	0.19	0.18	0	0	0	0	0	0
8/19/2024 22:02	47203	FAXO_T2	0	0	0	0	0	0	-1.37	-1.43	1	1	0	1200	1200	0
8/19/2024 22:02	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
8/19/2024 22:02	65502	MOJO_T2	63	0	-63	0.1	0	-0.1	-1.44	-1.51	1	1	0	900	900	0
8/19/2024 22:03	46206	DANV_T2	0	0	0	0	0	0	1.84	1.8	2	2	0	2100	2100	0
8/19/2024 22:03	43301	WATS_T2	0	2	2	0	0.6	0.6	0.46	0.45	0	0	0	0	0	0
8/19/2024 22:03	64101	REFR_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
8/19/2024 22:03	43302	WATS_T2	2	4	2	0.1	0.65	0.55	0	0	0	0	0	0	0	0
8/19/2024 22:03	46203	DANV_T2	1	1	0	7.7	8.2	0.5	0	0	0	0	0	0	0	0
8/19/2024 22:03	11804	FRAN_T1	0	0	0	0	0	0	0.87	0.81	0	0	0	0	0	0
8/19/2024 22:04	46504	LOHA_T1	2	3	1	0.6	0.63	0.03	0	0	0	0	0	0	0	0
8/19/2024 22:04	64203	KINZ_T1	0	0	0	0	0	0	-0.02	-0.1	1	1	0	600	600	0
8/19/2024 22:04	64202	KINZ_T1	3	3	0	0.43	0.77	0.34	0	0	0	0	0	0	0	0
8/19/2024 22:04	64204	KINZ_T1	1	2	1	1.1	1.2	0.1	0	0	0	0	0	0	0	0
8/19/2024 22:04	66703	STRA_T1	278	315	37	0.31	0.28	-0.03	-0.82	-0.88	0	0	0	0	0	0
8/19/2024 22:04	64201	KINZ_T1	1	1	0	0.7	0.9	0.2	-0.55	-0.4	3	3	0	1500	1500	0
8/19/2024 22:04	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 22:04	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
8/19/2024 22:04	66701	STRA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/19/2024 22:04	46506	LOHA_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/19/2024 22:05	43302	WATS_T2	2	4	2	0.1	0.65	0.55	0	0	0	0	0	0	0	0
8/19/2024 22:05	46504	LOHA_T1	2	3	1	0.6	0.63	0.03	0	0	0	0	0	0	0	0
8/19/2024 22:05	42903	MIDD_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
8/19/2024 22:05	44201	POIN_T1	135	128	-7	0.31	0.29	-0.02	-2.33	-2.32	2	2	0	2100	2100	0
8/19/2024 22:05	45602	WOOL_T1	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
8/19/2024 22:05	45501	DERR_T2	0	0	0	0	0	0	0.22	0.37	4	4	0	3600	3600	0
8/19/2024 22:05	63305	GREE_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/19/2024 22:05	46506	LOHA_T1	1	1	0	0.5	0.6	0.1	-0.09	-0.07	0	0	0	0	0	0
8/19/2024 22:05	43301	WATS_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
8/19/2024 22:05	43304	WATS_T2	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
8/19/2024 22:05	63302	GREE_T1	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
8/19/2024 22:06	67503	WEWI_T2	1	1	0	7.3	8	0.7	0	0	0	0	0	0	0	0
8/19/2024 22:06	67502	WEWI_T2	6	54	48	0.22	0.16	-0.06	-1.1	-1.15	1	1	0	900	900	0
8/19/2024 22:06	44901	SCOT_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/19/2024 22:06	46001	BERW_T1	0	0	0	0	0	0	-1.13	-1.14	0	0	0	0	0	0
8/19/2024 22:06	44902	SCOT_T2	78	260	182	0.12	0.29	0.17	0	0	0	0	0	0	0	0
8/19/2024 22:07	64201	KINZ_T1	1	1	0	0.7	0.9	0.2	-0.4	-0.22	3	2	-1	1500	1200	-300
8/19/2024 22:07	64101	REFR_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
8/19/2024 22:07	61502	EPET_T1	0	0	0	0	0	0	-0.7	-0.61	0	0	0	0	0	0
8/19/2024 22:07	67805	WLAN_T1	17	197	180	0.1	0.15	0.05	-1.25	-1.25	0	0	0	0	0	0
8/19/2024 22:07	64204	KINZ_T1	1	2	1	1.1	1.2	0.1	0	0	0	0	0	0	0	0
8/19/2024 22:07	67803	WLAN_T1	0	0	0	0	0	0	-0.65	-0.59	0	0	0	0	0	0
8/19/2024 22:07	64202	KINZ_T1	3	3	0	0.43	0.77	0.34	0	0	0	0	0	0	0	0
8/19/2024 22:07	64501	LAVI_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/19/2024 22:08	42802	SELI_T1	1	1	0	0.5	0.9	0.4	-2.97	-3	2	2	0	1800	1800	0
8/19/2024 22:08	66701	STRA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/19/2024 22:08	44203	POIN_T2	0	0	0	0	0	0	-0.5	-0.21	2	2	0	2100	2100	0
8/19/2024 22:08	46801	HEPB_T2	27	42	15	0.27	0.32	0.05	0	0	0	0	0	0	0	0
8/19/2024 22:08	66703	STRA_T1	278	315	37	0.31	0.28	-0.03	-0.88	-0.1	0	0	0	0	0	0
8/19/2024 22:08	44202	POIN_T2	1	1	0	2.7	2.4	-0.3	0	0	0	0	0	0	0	0
8/19/2024 22:08	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 22:08	63305	GREE_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/19/2024 22:08	63304	GREE_T1	0	0	0	0	0	0	-1.43	-0.23	0	0	0	0	0	0
8/19/2024 22:08	46803	HEPB_T2	8	19	11	0.2	0.21	0.01	0.56	0.6	0	0	0	0	0	0
8/19/2024 22:08	44801	EDAN_T2	132	197	65	0.41	0.54	0.13	-1.6	-1.61	0	0	0	0	0	0
8/19/2024 22:09	43302	WATS_T2	2	4	2	0.1	0.65	0.55	0	0	0	0	0	0	0	0
8/19/2024 22:09	66701	STRA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/19/2024 22:09	43301	WATS_T2	0	2	2	0	0.6	0.6	0.45	0.44	0	0	0	0	0	0
8/19/2024 22:09	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2024 22:09	46203	DANV_T2	1	1	0	7.7	8.2	0.5	0	0	0	0	0	0	0	0
8/19/2024 22:09	21501	CEAV_T2	0	0	0	0	0	0	0.08	0.11	1	1	0	1200	1200	0
8/19/2024 22:09	45501	DERR_T2	0	0	0	0	0	0	0.37	0.29	4	4	0	3600	3600	0
8/19/2024 22:09	46206	DANV_T2	0	0	0	0	0	0	1.8	1.84	2	2	0	2100	2100	0
8/19/2024 22:09	64101	REFR_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
8/19/2024 22:09	66703	STRA_T1	278	315	37	0.31	0.28	-0.03	-0.88	-0.1	0	0	0	0	0	0
8/19/2024 22:09	67502	WEWI_T2	6	54	48	0.22	0.16	-0.06	0	0	0	0	0	0	0	0
8/19/2024 22:09	44201	POIN_T1	135	128	-7	0.31	0.29	-0.02	-2.32	-2.22	2	2	0	2100	2100	0
8/19/2024 22:09	67503	WEWI_T2	1	1	0	7.3	8	0.7	0.21	0.22	0	0	0	0	0	0
8/19/2024 22:09	63602	LETO_T1	58	96	38	0.16	0.21	0.05	-0.8	-0.8	1	1	0	600	600	0
8/19/2024 22:10	43105	SMIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/19/2024 22:10	66701	STRA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/19/2024 22:10	64201	KINZ_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.19	1	1	0	600	600	0
8/19/2024 22:10	64204	KINZ_T1	1	2	1	1.1	1.2	0.1	0	0	0	0	0	0	0	0
8/19/2024 22:10	43103	SMIL_T2	5	4	-1	0.46	0.43	-0.03	0	0	0	0	0	0	0	0
8/19/2024 22:10	43102	SMIL_T2	8	8	0	0.63	0.7	0.07	-0.73	-0.73	1	1	0	600	600	0
8/19/2024 22:10	64902	MILL_T2	0	0	0	0	0	0	-0.35	-0.34	1	1	0	900	900	0
8/19/2024 22:10	42902	MIDD_T2	0	0	0	0	0	0	-0.97	-0.98	1	1	0	600	600	0
8/19/2024 22:10	64202	KINZ_T1	3	3	0	0.43	0.77	0.34	0	0	0	0	0	0	0	0
8/19/2024 22:10	66703	STRA_T1	278	315	37	0.31	0.28	-0.03	-1.76	-0.19	0	0	0	0	0	0
8/19/2024 22:10	45501	DERR_T2	0	0	0	0	0	0	0.18	0.15	2	2	0	1800	1800	0
8/19/2024 22:11	44301	BEAV_T2	0	0	0	0	0	0	-0.8	-0.64	1	1	0	600	600	0
8/19/2024 22:11	12802	MICK_T1	0	0	0	0	0	0	-1.14	-1.16	0	0	0	0	0	0
8/19/2024 22:11	12807	MICK_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/19/2024 22:11	44302	BEAV_T2	0	0	0	0	0	0	0.32	0.27	0	0	0	0	0	0
8/19/2024 22:12	44801	EDAN_T2	132	197	65	0.41	0.54	0.13	-1.6	-1.61	0	0	0	0	0	0
8/19/2024 22:13	43802	SWIL_T1	0	0	0	0	0	0	0.04	0.04	1	1	0	600	600	0
8/19/2024 22:13	45702	LIND_T2	0	0	0	0	0	0	-0.46	-0.43	0	0	0	0	0	0
8/19/2024 22:13	43801	SWIL_T1	3	9	6	2.27	0.89	-1.38	0	0	0	0	0	0	0	0
8/19/2024 22:13	44301	BEAV_T2	0	0	0	0	0	0	-0.8	-0.64	1	1	0	600	600	0
8/19/2024 22:14	67505	WEWI_T1	0	0	0	0	0	0	0.26	0.19	1	1	0	900	900	0
8/19/2024 22:14	64101	REFR_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
8/19/2024 22:14	42802	SELI_T1	1	1	0	0.5	0.9	0.4	-1.49	-1.5	1	1	0	900	900	0
8/19/2024 22:23	47502	NECO_T1	1	1	0	0.2	0.3	0.1	0.84	0.94	0	0	0	0	0	0
8/19/2024 22:29	64904	MILL_T1	1	2	1	0.1	0.15	0.05	-0.08	-0.11	0	0	0	0	0	0
8/19/2024 22:29	64901	MILL_T1	5	27	22	0.1	0.14	0.04	0	0	0	0	0	0	0	0
8/19/2024 22:58	61701	ELIZ_T1	1	1	0	3.2	3.1	-0.1	1.31	1.21	0	0	0	0	0	0
8/20/2024 0:14	67503	WEWI_T2	1	1	0	7.7	8	0.3	-0.01	0.05	0	0	0	0	0	0
8/20/2024 1:22	65502	MOJO_T2	0	0	0	0	0	0	-1.83	-1.86	1	1	0	900	900	0
8/20/2024 7:07	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 7:08	15202	SFAR_T1	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
8/20/2024 7:12	63804	HEMP_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
8/20/2024 7:12	62604	ENGL_T1	0	0	0	0	0	0	-0.68	-0.58	1	1	0	600	600	0
8/20/2024 7:12	63801	HEMP_T1	0	0	0	0	0	0	-0.72	-0.58	1	1	0	900	900	0
8/20/2024 7:22	62102	ELAN_T1	0	0	0	0	0	0	1.22	1.35	0	0	0	0	0	0
8/20/2024 7:23	67804	WLAN_T1	0	0	0	0	0	0	-1.1	-1.1	0	0	0	0	0	0
8/20/2024 7:25	62102	ELAN_T1	0	0	0	0	0	0	0.61	0.67	0	0	0	0	0	0
8/20/2024 7:29	62607	ENGL_T1	0	0	0	0	0	0	-1.03	-1.03	1	1	0	300	300	0
8/20/2024 7:37	15702	TANN_T2	0	0	0	0	0	0	-0.49	-0.42	0	0	0	0	0	0
8/20/2024 7:37	15703	TANN_T2	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
8/20/2024 7:52	67503	WEWI_T2	1	1	0	9	8.5	-0.5	-0.22	-0.19	0	0	0	0	0	0
8/20/2024 7:53	67804	WLAN_T1	0	0	0	0	0	0	-1.11	-1.08	0	0	0	0	0	0
8/20/2024 7:54	67804	WLAN_T1	0	0	0	0	0	0	-2.23	-2.17	0	0	0	0	0	0
8/20/2024 7:54	67801	WLAN_T1	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
8/20/2024 7:54	23401	HONE_T2	0	0	0	0	0	0	0.07	0	0	0	0	0	0	0
8/20/2024 7:57	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 8:07	15601	NSTR_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/20/2024 8:07	15603	NSTR_T2	0	0	0	0	0	0	-0.32	-0.3	0	0	0	0	0	0
8/20/2024 8:09	44903	SCOT_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
8/20/2024 8:11	67605	WARW_T1	16	15	-1	0.67	0.67	0	0	0	0	0	0	0	0	0
8/20/2024 8:11	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/20/2024 8:12	46001	BERW_T1	0	0	0	0	0	0	-1.08	-1.18	0	0	0	0	0	0
8/20/2024 8:18	43202	MVIL_T2	0	1	1	0	0	0	-0.42	-0.86	0	0	0	0	0	0
8/20/2024 8:19	65004	NEFF_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
8/20/2024 8:20	43202	MVIL_T2	0	1	1	0	0	0	-0.42	-0.86	0	0	0	0	0	0
8/20/2024 8:20	17002	RIRO_T2	2	2	0	0.25	0.35	0.1	0.66	0.67	0	0	0	0	0	0
8/20/2024 8:25	67805	WLAN_T1	0	0	0	0	0	0	-0.9	-0.77	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/20/2024 8:31	11507	FREE_T2	0	0	0	0	0	0	0.38	0.41	0	0	0	0	0	0
8/20/2024 8:31	64503	LAVI_T1	0	0	0	0	0	0	-1.67	-1.64	2	2	0	2100	2100	0
8/20/2024 8:32	64503	LAVI_T1	0	0	0	0	0	0	-3.34	-3.29	4	4	0	4200	4200	0
8/20/2024 8:33	64503	LAVI_T1	0	0	0	0	0	0	-1.67	-1.64	2	2	0	2100	2100	0
8/20/2024 8:37	65604	QVIL_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
8/20/2024 8:38	62102	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 8:39	67803	WLAN_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
8/20/2024 8:40	62102	ELAN_T1	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
8/20/2024 8:42	67803	WLAN_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
8/20/2024 8:53	67605	WARW_T1	19	13	-6	0.61	0.36	-0.25	-1.01	-1.06	0	0	0	0	0	0
8/20/2024 8:54	67605	WARW_T1	19	13	-6	0.61	0.36	-0.25	-1.01	-1.06	0	0	0	0	0	0
8/20/2024 8:57	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.61	0.57	2	2	0	1800	1800	0
8/20/2024 8:57	45502	DERR_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
8/20/2024 8:58	63501	HEID_TBK1-2	54	55	1	1.02	0.88	-0.14	0.3	0.21	1	1	0	900	900	0
8/20/2024 8:59	40703	FFLD_T1	1	4	3	0.2	0.25	0.05	0	0	0	0	0	0	0	0
8/20/2024 8:59	63501	HEID_TBK1-2	54	55	1	1.02	0.88	-0.14	0.3	0.21	1	1	0	900	900	0
8/20/2024 8:59	45502	DERR_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
8/20/2024 8:59	40702	FFLD_T1	1	11	10	0.2	0.21	0.01	-0.43	-0.48	1	1	0	1200	1200	0
8/20/2024 8:59	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.61	0.57	2	2	0	1800	1800	0
8/20/2024 8:59	40701	FFLD_T1	30	29	-1	0.22	0.44	0.22	0	0	0	0	0	0	0	0
8/20/2024 9:02	63501	HEID_TBK1-2	54	55	1	0.88	1.23	0.35	0.3	0.21	1	1	0	900	900	0
8/20/2024 9:03	43202	MVIL_T2	0	0	0	0	0	0	-0.33	-0.87	0	0	0	0	0	0
8/20/2024 9:03	65601	QVIL_T2	0	0	0	0	0	0	-0.96	-0.94	1	1	0	900	900	0
8/20/2024 9:04	64305	LINC_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
8/20/2024 9:08	64602	LEOL_T1	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
8/20/2024 9:09	62104	ELAN_T1	0	0	0	0	0	0	0.41	0.36	2	2	0	1500	1500	0
8/20/2024 9:09	62102	ELAN_T1	0	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0
8/20/2024 9:12	62104	ELAN_T1	0	0	0	0	0	0	0.41	0.36	2	2	0	1500	1500	0
8/20/2024 9:12	62102	ELAN_T1	0	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0
8/20/2024 9:14	62104	ELAN_T1	0	0	0	0	0	0	0.41	0.36	2	2	0	1500	1500	0
8/20/2024 9:14	62102	ELAN_T1	0	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0
8/20/2024 9:17	26702	HEML_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 9:17	26704	HEML_T2	21	0	-21	0.13	0	-0.13	-0.74	-0.75	1	1	0	1200	1200	0
8/20/2024 9:19	65207	PRIN_T4	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/20/2024 9:19	65206	PRIN_T4	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/20/2024 9:19	65503	MOJO_T2	0	0	0	0	0	0	-0.9	-0.95	1	1	0	900	900	0
8/20/2024 9:20	66502	SMAN_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
8/20/2024 9:20	66504	SMAN_T2	0	1	1	0	0.3	0.3	-0.15	-0.08	0	0	0	0	0	0
8/20/2024 9:21	66504	SMAN_T2	0	1	1	0	0.3	0.3	-0.15	-0.2	0	0	0	0	0	0
8/20/2024 9:21	66502	SMAN_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
8/20/2024 9:23	66502	SMAN_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
8/20/2024 9:23	66504	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/20/2024 9:23	66505	SMAN_T2	0	0	0	0	0	0	0.4	0.62	1	1	0	900	900	0
8/20/2024 9:24	10805	CHHI_T2	1	1	0	7.8	7.6	-0.2	-1.02	-1.01	2	2	0	1800	1800	0
8/20/2024 9:26	10805	CHHI_T2	1	1	0	7.8	7.6	-0.2	-1.02	-1.01	2	2	0	1800	1800	0
8/20/2024 9:27	11103	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 9:27	11104	EGYP_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
8/20/2024 9:29	11104	EGYP_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
8/20/2024 9:29	11103	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 9:32	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 9:32	67605	WARW_T1	13	11	-2	0.45	0.36	-0.09	0	0	0	0	0	0	0	0
8/20/2024 9:34	60504	NMAN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
8/20/2024 9:34	60502	NMAN_T2	0	0	0	0	0	0	-0.09	-0.04	0	0	0	0	0	0
8/20/2024 9:35	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 9:35	60504	NMAN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
8/20/2024 9:36	60504	NMAN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
8/20/2024 9:36	60502	NMAN_T2	0	0	0	0	0	0	-0.09	-0.19	0	0	0	0	0	0
8/20/2024 9:41	44801	EDAN_T2	130	168	38	0.47	0.57	0.1	-1.54	-1.54	0	0	0	0	0	0
8/20/2024 9:42	22002	BOHE_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
8/20/2024 9:44	44801	EDAN_T2	130	168	38	0.47	0.57	0.1	-1.54	-1.54	0	0	0	0	0	0
8/20/2024 9:52	13704	SCHN_T2	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
8/20/2024 10:00	50107	HARR_T3	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
8/20/2024 10:00	51904	COPA_T1	5	5	0	0.76	1.04	0.28	0	0	0	0	0	0	0	0
8/20/2024 10:00	45802	HEGI_T2	44	44	0	1.18	0.99	-0.19	-0.29	-0.35	2	2	0	1800	1800	0
8/20/2024 10:00	22905	HARW_T1	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
8/20/2024 10:00	57101	SPHI_T2	6	6	0	0.68	1.43	0.75	0	0	0	0	0	0	0	0
8/20/2024 10:00	52002	LING_T2	0	1	1	0	0.4	0.4	-0.3	-0.36	0	0	0	0	0	0
8/20/2024 10:00	43202	MVIL_T2	0	0	0	0	0	0	-1.2	-1.17	0	0	0	0	0	0
8/20/2024 10:00	52004	LING_T2	2	3	1	5.7	3.97	-1.73	0.32	0.32	0	0	0	0	0	0
8/20/2024 10:00	57203	ROSS_T1	0	0	0	0	0	0	-0.55	0.99	0	0	0	0	0	0
8/20/2024 10:00	51202	MTON_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 10:00	65003	NEFF_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/20/2024 10:00	55001	NEWP_T1	0	2	2	0	0	0	-0.06	-0.03	0	0	0	0	0	0
8/20/2024 10:00	40602	PIGR_T1	1	1	0	0.7	0.6	-0.1	-0.48	-0.5	1	1	0	600	600	0
8/20/2024 10:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 10:00	66502	SMAN_T2	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/20/2024 10:00	50105	HARR_T3	6	6	0	5.72	5.62	-0.1	0	0	0	0	0	0	0	0
8/20/2024 10:00	57004	WHHI_T2	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
8/20/2024 10:00	55508	HERS_T2	2	2	0	1.15	1.3	0.15	-5.04	-5.05	2	2	0	2400	2400	0
8/20/2024 10:00	57002	WHHI_T2	0	0	0	0	0	0	-1.33	-1.24	1	1	0	1200	1200	0
8/20/2024 10:00	42201	SHEN_T2	0	1	1	0	0.1	0.1	0.29	0.34	2	2	0	1200	1200	0
8/20/2024 10:00	50701	SMEC_T1	1	0	-1	0.2	0	-0.2	0.43	0.42	0	0	0	0	0	0
8/20/2024 10:00	21501	CEAV_T2	0	0	0	0	0	0	0.18	0.25	1	1	0	1200	1200	0
8/20/2024 10:00	23001	SAIO_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
8/20/2024 10:00	52402	GRPA_T2	2	5	3	0.2	0.35	0.15	-0.7	-0.69	0	0	0	0	0	0
8/20/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	0.22	0.22	4	4	0	3000	3000	0
8/20/2024 10:00	29402	BELT_T1	1	1	0	8.2	8.6	0.4	0	0	0	0	0	0	0	0
8/20/2024 10:00	20403	ASHF_T2	0	0	0	0	0	0	6.21	6.39	0	0	0	0	0	0
8/20/2024 10:00	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 10:00	23201	HIRU_T2	4	12	8	0.13	0.15	0.02	0	0	0	0	0	0	0	0
8/20/2024 10:00	40101	HUNT_T2	1	2	1	0.3	0	-0.3	-0.21	-0.28	1	0	0	0	0	0
8/20/2024 10:00	52401	GRPA_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
8/20/2024 10:00	20603	GRWO_T2	0	0	0	0	0	0	-0.64	-0.6	1	1	0	900	900	0
8/20/2024 10:00	20601	GRWO_T2	34	54	20	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
8/20/2024 10:00	55002	NEWP_T1	7	11	4	0.87	0.83	-0.04	0	0	0	0	0	0	0	0
8/20/2024 10:00	52501	PROG_T1	0	0	0	0	0	0	0.05	0.05	1	1	0	300	300	0
8/20/2024 10:00	51901	COPA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 10:00	65004	NEFF_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
8/20/2024 10:00	57103	SPHI_T2	0	0	0	0	0	0	-2.18	-2.16	0	0	0	0	0	0
8/20/2024 10:00	40505	CRES_T1	3	3	0	4.4	4.7	0.3	0.37	0.35	0	0	0	0	0	0
8/20/2024 10:00	59101	WALK_T2	0	0	0	0	0	0	4.69	4.54	0	0	0	0	0	0
8/20/2024 10:00	51204	MTON_T2	0	0	0	0	0	0	-0.3	-0.31	1	1	0	600	600	0
8/20/2024 10:00	66505	SMAN_T2	0	0	0	0	0	0	0.56	0.7	1	1	0	900	900	0
8/20/2024 10:00	55101	WERT_T1	0	0	0	0	0	0	-10	-10.14	18	18	0	14400	14400	0
8/20/2024 10:00	57106	SPHI_T2	3	3	0	0.67	1.37	0.7	0	0	0	0	0	0	0	0
8/20/2024 10:00	58803	COCO_T1	1	1	0	1.3	1.7	0.4	0	0	0	0	0	0	0	0
8/20/2024 10:00	57104	SPHI_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
8/20/2024 10:00	23202	HIRU_T2	1	6	5	0.1	0.12	0.02	0	0	0	0	0	0	0	0
8/20/2024 10:00	51906	COPA_T1	0	0	0	0	0	0	0	0	2	2	0	1500	1500	0
8/20/2024 10:00	51604	DUKE_T2	0	0	0	0	0	0	-3.54	-3.49	0	0	0	0	0	0
8/20/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	0.45	0.52	0	0	0	0	0	0
8/20/2024 10:00	23203	HIRU_T2	0	6	6	0	0.13	0.13	0.32	0.35	0	0	0	0	0	0
8/20/2024 10:00	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 10:00	53601	DALM_T2	1	1	0	1	1	0	1.12	0.86	0	0	0	0	0	0
8/20/2024 10:00	57205	ROSS_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
8/20/2024 10:00	54203	PENN_T1	18	18	0	0.37	0.61	0.24	1.73	1.81	0	0	0	0	0	0
8/20/2024 10:00	40601	PIGR_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 10:00	50103	HARR_T3	2	2	0	0.5	0.6	0.1	-0.66	-0.68	1	1	0	1200	1200	0
8/20/2024 10:00	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 10:00	56504	ROCK_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
8/20/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	-1.18	-1.27	2	2	0	1200	1200	0
8/20/2024 10:00	25402	LAHA_T2	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
8/20/2024 10:00	56501	ROCK_T2	3	2	-1	0.47	0.1	-0.37	0.26	0.17	0	0	0	0	0	0
8/20/2024 10:00	54201	PENN_T1	10	10	0	0.69	0.77	0.08	-1.79	-1.76	0	0	0	0	0	0
8/20/2024 10:00	52403	GRPA_T2	1	1	0	0.3	0.1	-0.2	0.13	0.14	0	0	0	0	0	0
8/20/2024 10:00	24702	FLND_T2	0	0	0	0	0	0	0.62	0.79	2	2	0	2400	2400	0
8/20/2024 10:03	63501	HEID_TBK1-2	55	55	0	1.27	1.34	0.07	0.28	0.32	1	1	0	900	900	0
8/20/2024 10:06	67503	WEWI_T2	1	1	0	8.6	8.7	0.1	-0.09	-0.18	0	0	0	0	0	0
8/20/2024 10:06	43103	SMIL_T2	15	18	3	0.45	0.62	0.17	0	0	0	0	0	0	0	0
8/20/2024 10:06	43106	SMIL_T2	0	0	0	0	0	0	-0.82	-0.78	2	2	0	2400	2400	0
8/20/2024 10:06	67502	WEWI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/20/2024 10:06	46302	ROHR_T1	5	6	1	1.96	1.63	-0.33	0.15	0.15	0	0	0	0	0	0
8/20/2024 10:06	43105	SMIL_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
8/20/2024 10:06	43102	SMIL_T2	7	7	0	0.57	0.58	0.01	0	0	0	0	0	0	0	0
8/20/2024 10:06	46301	ROHR_T1	6	5	-1	1.53	2.02	0.49	0	0	0	0	0	0	0	0
8/20/2024 10:07	46303	ROHR_T1	6	5	-1	1.53	2.02	0.49	0.25	0.24	0	0	0	0	0	0
8/20/2024 10:07	44201	POIN_T1	0	0	0	0	0	0	-1.18	-1.12	2	2	0	2100	2100	0
8/20/2024 10:07	46302	ROHR_T1	5	6	1	1.96	1.63	-0.33	0.15	0.15	0	0	0	0	0	0
8/20/2024 10:08	66502	SMAN_T2	2	0	-2	0.7	0	-0.7	0.22	0.23	0	0	0	0	0	0
8/20/2024 10:08	64802	MONE_T2	1	0	-1	0.2	0	-0.2	0.34	0.35	0	0	0	0	0	0
8/20/2024 10:08	45602	WOOL_T1	0	1	1	0	0.1	0.1	0.71	0.73	0	0	0	0	0	0
8/20/2024 10:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 10:08	64801	MONE_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/20/2024 10:09	16102	BING_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/20/2024 10:09	46002	BERW_T2	0	0	0	0	0	0	-1.22	-1.19	1	1	0	900	900	0
8/20/2024 10:09	57205	ROSS_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
8/20/2024 10:09	57201	ROSS_T1	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
8/20/2024 10:09	16101	BING_T2	0	0	0	0	0	0	0.47	0.51	0	0	0	0	0	0
8/20/2024 10:11	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/20/2024 10:11	14203	EALL_T1	0	0	0	0	0	0	-0.04	-0.02	1	1	0	1200	1200	0
8/20/2024 10:11	45502	DERR_T2	1	1	0	0.3	0	-0.3	0.16	0.17	1	1	0	300	300	0
8/20/2024 10:13	29402	BELT_T1	1	1	0	8.2	8.6	0.4	0	0	0	0	0	0	0	0
8/20/2024 10:13	15203	SFAR_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/20/2024 10:13	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 10:13	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 10:14	60801	BUCK_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
8/20/2024 10:14	21204	ECAR_T2	1	1	0	0	0	0	-0.62	-0.66	0	0	0	0	0	0
8/20/2024 10:14	21206	ECAR_T2	1	1	0	7.3	7.9	0.6	0	0	0	0	0	0	0	0
8/20/2024 10:14	21202	ECAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 10:15	25503	MADI_T1	14	3	-11	0.13	0.17	0.04	-0.87	-0.89	0	0	0	0	0	0
8/20/2024 10:15	25501	MADI_T1	3	3	0	0.47	0.93	0.46	0	0	0	0	0	0	0	0
8/20/2024 10:17	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 10:17	15203	SFAR_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/20/2024 10:17	64305	LINC_T1	0	0	0	0	0	0	0.14	0.1	0	0	0	0	0	0
8/20/2024 10:19	12801	MICK_T1	0	0	0	0	0	0	-0.67	-0.62	1	1	0	600	600	0
8/20/2024 10:19	12807	MICK_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
8/20/2024 10:21	59202	THOM_T1	0	5	5	0	0.28	0.28	0	0	0	0	0	0	0	0
8/20/2024 10:22	41902	REED_T1	1	0	-1	0.5	0	-0.5	1.23	1.24	0	0	0	0	0	0
8/20/2024 10:22	66701	STRA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 10:22	66703	STRA_T1	0	2	2	0	0.6	0.6	0.03	0.02	0	0	0	0	0	0
8/20/2024 10:23	13704	SCHN_T2	0	1	1	0	0.1	0.1	-0.25	-0.26	0	0	0	0	0	0
8/20/2024 10:23	67605	WARW_T1	9	9	0	0.43	0.47	0.04	-1.02	-1.04	0	0	0	0	0	0
8/20/2024 10:23	42201	SHEN_T2	0	1	1	0	0.1	0.1	0.23	0.18	1	1	0	600	600	0
8/20/2024 10:23	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/20/2024 10:24	67605	WARW_T1	9	9	0	0.43	0.47	0.04	-1.02	-1.04	0	0	0	0	0	0
8/20/2024 10:25	10801	CHHI_T1	4	5	1	0.43	0.88	0.45	-0.67	-0.31	1	1	0	900	900	0
8/20/2024 10:25	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 10:26	59101	WALK_T2	0	0	0	0	0	0	2.14	2.19	0	0	0	0	0	0
8/20/2024 10:26	23901	EFMO_T2	1	1	0	0.1	0.2	0.1	-0.6	-0.6	0	0	0	0	0	0
8/20/2024 10:27	67605	WARW_T1	9	9	0	0.43	0.47	0.04	-2.03	-2.07	0	0	0	0	0	0
8/20/2024 10:27	16103	BING_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
8/20/2024 10:27	45902	AUBU_T1	0	0	0	0	0	0	-0.61	-0.64	1	1	0	600	600	0
8/20/2024 10:27	10801	CHHI_T1	4	5	1	0.43	0.88	0.45	-0.67	-0.31	1	1	0	900	900	0
8/20/2024 10:27	16102	BING_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
8/20/2024 10:28	67603	WARW_T1	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
8/20/2024 10:28	63401	HONY_T1	0	0	0	0	0	0	0.41	0.33	1	1	0	600	600	0
8/20/2024 10:28	67605	WARW_T1	9	9	0	0.43	0.47	0.04	0	0	0	0	0	0	0	0
8/20/2024 10:29	61306	EARL_T1	0	0	0	0	0	0	-1.24	-1.23	0	0	0	0	0	0
8/20/2024 10:29	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 10:30	63401	HONY_T1	0	0	0	0	0	0	0.41	0.33	1	1	0	600	600	0
8/20/2024 10:30	11504	FREE_T1	0	0	0	0	0	0	-2.01	-2.1	2	2	0	2100	2100	0
8/20/2024 10:30	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 10:30	61301	EARL_T1	0	0	0	0	0	0	-1	-0.97	2	2	0	1800	1800	0
8/20/2024 10:30	23901	EFMO_T2	0	1	1	0	0.3	0.3	-0.3	-0.3	0	0	0	0	0	0
8/20/2024 10:34	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 10:36	64101	REFR_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
8/20/2024 10:36	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
8/20/2024 10:36	15702	TANN_T2	0	0	0	0	0	0	-0.71	-0.62	0	0	0	0	0	0
8/20/2024 10:37	13905	SEID_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
8/20/2024 10:37	64101	REFR_T1	0	0	0	0	0	0	0.55	0.51	0	0	0	0	0	0
8/20/2024 10:38	65604	QVIL_T2	0	0	0	0	0	0	0.4	0.44	0	0	0	0	0	0
8/20/2024 10:38	64101	REFR_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
8/20/2024 10:38	62102	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 10:39	64101	REFR_T1	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
8/20/2024 10:39	20401	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 10:39	20403	ASHF_T2	0	2	2	0	0.2	0.2	1.66	1.54	0	0	0	0	0	0
8/20/2024 10:39	43402	BENT_T1	0	2	2	0	0.3	0.3	-0.38	-0.36	1	1	0	600	600	0
8/20/2024 10:40	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 10:41	62102	ELAN_T1	0	0	0	0	0	0	0.67	0.78	0	0	0	0	0	0
8/20/2024 10:41	44301	BEAV_T2	1	1	0	2.1	1.5	-0.6	0	0	0	0	0	0	0	0
8/20/2024 10:42	43402	BENT_T1	0	2	2	0	0.3	0.3	-0.38	-0.36	1	1	0	600	600	0
8/20/2024 10:43	14203	EALL_T1	0	1	1	0	0.1	0.1	0	-0.03	1	1	0	1200	1200	0
8/20/2024 10:43	43402	BENT_T1	0	2	2	0	0.3	0.3	-0.38	-0.36	1	1	0	600	600	0
8/20/2024 10:43	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 10:44	48302	ORWI_T2	2	1	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/20/2024 10:45	45901	AUBU_T1	0	0	0	0	0	0	1.8	1.74	0	0	0	0	0	0
8/20/2024 10:45	45902	AUBU_T1	0	0	0	0	0	0	-0.64	-0.59	1	1	0	600	600	0
8/20/2024 10:48	55508	HERS_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
8/20/2024 10:48	42002	MNVL_T2	1	1	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
8/20/2024 10:48	42001	MNVL_T2	75	236	161	0.35	0.84	0.49	-0.2	-0.24	0	0	0	0	0	0
8/20/2024 10:48	60504	NMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/20/2024 10:48	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 10:49	52001	LING_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
8/20/2024 10:49	24204	PROV_T3	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
8/20/2024 10:49	24201	PROV_T3	1	1	0	6.4	6.4	0	-1.33	-1.34	1	1	0	1200	1200	0
8/20/2024 10:50	56501	ROCK_T2	2	2	0	0.5	1.05	0.55	0.16	0.13	0	0	0	0	0	0
8/20/2024 10:50	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 10:51	52501	PROG_T1	0	1	1	0	0.1	0.1	0.07	0.07	1	1	0	300	300	0
8/20/2024 10:51	56501	ROCK_T2	2	2	0	0.5	1.05	0.55	0.16	0.13	0	0	0	0	0	0
8/20/2024 10:52	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 10:53	60201	ATGL_T2	0	0	0	0	0	0	0.28	0.19	0	0	0	0	0	0
8/20/2024 10:54	14802	TREI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/20/2024 10:54	14801	TREI_T2	50	32	-18	0.24	0.23	-0.01	-0.27	-0.29	0	0	0	0	0	0
8/20/2024 10:54	56501	ROCK_T2	2	2	0	0.5	1.05	0.55	0.13	0.16	0	0	0	0	0	0
8/20/2024 10:54	54202	PENN_T2	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
8/20/2024 10:55	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.73	0.94	2	2	0	1800	1800	0
8/20/2024 10:56	14802	TREI_T2	0	2	2	0	0.15	0.15	0.61	0.59	0	0	0	0	0	0
8/20/2024 10:56	42501	ALTA_T2	0	0	0	0	0	0	-1.07	-1.07	1	1	0	600	600	0
8/20/2024 10:56	14801	TREI_T2	50	32	-18	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
8/20/2024 10:58	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.73	0.94	2	2	0	1800	1800	0
8/20/2024 10:58	14801	TREI_T2	50	32	-18	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
8/20/2024 10:58	14802	TREI_T2	0	2	2	0	0.15	0.15	0.61	0.59	0	0	0	0	0	0
8/20/2024 10:58	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 10:59	47203	FAXO_T2	0	0	0	0	0	0	-1.58	-1.54	1	1	0	1200	1200	0
8/20/2024 11:00	45901	AUBU_T1	0	0	0	0	0	0	1.74	1.76	0	0	0	0	0	0
8/20/2024 11:02	52401	GRPA_T2	0	1	1	0	0.7	0.7	-0.44	-0.44	0	0	0	0	0	0
8/20/2024 11:02	52402	GRPA_T2	1	5	4	0.1	0.48	0.38	0	0	0	0	0	0	0	0
8/20/2024 11:02	52403	GRPA_T2	1	4	3	0.3	0.65	0.35	0	0	0	0	0	0	0	0
8/20/2024 11:03	65205	PRIN_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/20/2024 11:04	66504	SMAN_T2	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
8/20/2024 11:04	58202	NEWV_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
8/20/2024 11:06	43301	WATS_T2	1	1	0	1.2	1	-0.2	-1.11	-1.11	2	2	0	1800	1800	0
8/20/2024 11:06	24801	VALM_T1	0	0	0	0	0	0	-0.29	-0.23	0	0	0	0	0	0
8/20/2024 11:06	42801	SELI_T1	0	0	0	0	0	0	-1.47	-1.39	1	1	0	1200	1200	0
8/20/2024 11:07	64802	MONE_T2	0	1	1	0	0.2	0.2	0.4	0.4	0	0	0	0	0	0
8/20/2024 11:07	66703	STRA_T1	1	2	1	0.1	0.1	0	0.01	0.1	0	0	0	0	0	0
8/20/2024 11:07	64801	MONE_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/20/2024 11:07	54202	PENN_T2	0	0	0	0	0	0	0.76	0.76	0	0	0	0	0	0
8/20/2024 11:08	66505	SMAN_T2	0	0	0	0	0	0	0.81	0.76	1	1	0	900	900	0
8/20/2024 11:08	66703	STRA_T1	1	2	1	0.1	0.1	0	0.01	0.1	0	0	0	0	0	0
8/20/2024 11:08	64802	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 11:08	55002	NEWP_T1	7	10	3	0.67	0.88	0.21	-0.36	-0.36	0	0	0	0	0	0
8/20/2024 11:08	43301	WATS_T2	1	1	0	1.2	1	-0.2	-0.55	-0.55	1	1	0	900	900	0
8/20/2024 11:08	64801	MONE_T2	1	1	0	0.1	0.4	0.3	0.36	0.36	0	0	0	0	0	0
8/20/2024 11:09	54206	PENN_T2	0	0	0	0	0	0	0.48	0.52	0	0	0	0	0	0
8/20/2024 11:11	54206	PENN_T2	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
8/20/2024 11:11	54202	PENN_T2	0	0	0	0	0	0	0.76	0.76	0	0	0	0	0	0
8/20/2024 11:14	63305	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 11:14	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 11:14	45901	AUBU_T1	0	0	0	0	0	0	1.76	1.81	0	0	0	0	0	0
8/20/2024 11:14	12006	HATF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 11:14	63303	GREE_T1	0	0	0	0	0	0	0.04	0.17	2	2	0	1800	1800	0
8/20/2024 11:15	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 11:15	22901	HARW_T1	0	0	0	0	0	0	-0.23	-0.22	1	1	0	1200	1200	0
8/20/2024 11:15	22602	KIMB_T1	0	1	1	0	0.1	0.1	0.33	0.34	0	0	0	0	0	0
8/20/2024 11:15	10504	CRAC_T1	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
8/20/2024 11:16	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 11:16	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/20/2024 11:16	64203	KINZ_T1	0	0	0	0	0	0	0.11	0.05	3	3	0	2100	2100	0
8/20/2024 11:16	64204	KINZ_T1	25	13	-12	0.46	0.34	-0.12	0	0	0	0	0	0	0	0
8/20/2024 11:16	63602	LETO_T1	0	0	0	0	0	0	-0.79	-0.71	0	0	0	0	0	0
8/20/2024 11:17	16401	MOPO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 11:17	16402	MOPO_T1	0	0	0	0	0	0	0.31	0.56	0	0	0	0	0	0
8/20/2024 11:17	63304	GREE_T1	0	0	0	0	0	0	-0.27	-0.21	0	0	0	0	0	0
8/20/2024 11:17	63305	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 11:19	17002	RIRO_T2	2	103	101	0.65	0.2	-0.45	0.71	0.78	0	0	0	0	0	0
8/20/2024 11:19	44202	POIN_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
8/20/2024 11:19	60502	NMAN_T2	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
8/20/2024 11:19	44203	POIN_T2	0	0	0	0	0	0	-0.09	0	2	2	0	2100	2100	0
8/20/2024 11:19	60504	NMAN_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/20/2024 11:19	60501	NMAN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
8/20/2024 11:20	60504	NMAN_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/20/2024 11:20	16401	MOPO_T1	0	1	1	0	0	0	0.25	0.24	0	0	0	0	0	0
8/20/2024 11:20	60502	NMAN_T2	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
8/20/2024 11:20	17001	RIRO_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
8/20/2024 11:20	60501	NMAN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
8/20/2024 11:21	54601	SUMM_T2	9	11	2	0.31	0.34	0.03	-1.74	-1.72	2	2	0	2100	2100	0
8/20/2024 11:21	54603	SUMM_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 11:22	67203	TEHI_T1	1	1	0	0.5	0	-0.5	2.74	2.37	3	3	0	2100	2100	0
8/20/2024 11:22	60301	TWVA_T2	0	0	0	0	0	0	-2.93	-2.97	2	2	0	1800	1800	0
8/20/2024 11:23	20403	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 11:23	20401	ASHF_T2	0	1	1	0	0	0	-0.13	-0.01	0	0	0	0	0	0
8/20/2024 11:24	14702	TREX_T2	0	0	0	0	0	0	1.2	1.1	0	0	0	0	0	0
8/20/2024 11:24	20403	ASHF_T2	0	1	1	0	0.2	0.2	1.57	1.67	0	0	0	0	0	0
8/20/2024 11:24	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 11:25	51306	WIND_T2	1	0	-1	6	0	-6	0	0	0	0	0	0	0	0
8/20/2024 11:25	51004	NHAR_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
8/20/2024 11:25	67803	WLAN_T1	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
8/20/2024 11:25	51304	WIND_T2	0	1	1	0	1	1	0.02	0.06	0	0	0	0	0	0
8/20/2024 11:25	14702	TREX_T2	0	0	0	0	0	0	1.2	1.1	0	0	0	0	0	0
8/20/2024 11:25	51002	NHAR_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
8/20/2024 11:25	14201	EALL_T1	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
8/20/2024 11:28	23201	HIRU_T2	16	11	-5	0.14	0.15	0.01	0	0	0	0	0	0	0	0
8/20/2024 11:28	23203	HIRU_T2	0	8	8	0	0.15	0.15	0	0	0	0	0	0	0	0
8/20/2024 11:28	23202	HIRU_T2	0	1	1	0	0.1	0.1	0.12	0.11	0	0	0	0	0	0
8/20/2024 11:29	21705	SUBU_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
8/20/2024 11:29	21703	SUBU_T1	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
8/20/2024 11:29	21701	SUBU_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
8/20/2024 11:31	59301	MCAL_T1	3	6	3	0.6	0.57	-0.03	-1.49	-1.51	1	1	0	600	600	0
8/20/2024 11:33	15604	NSTR_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
8/20/2024 11:35	41902	REED_T1	0	0	0	0	0	0	1.1	1.2	0	0	0	0	0	0
8/20/2024 11:36	67503	WEWI_T2	1	1	0	8.2	8.2	0	-0.08	-0.09	0	0	0	0	0	0
8/20/2024 11:36	44202	POIN_T2	1	1	0	0.5	0.2	-0.3	-0.43	-0.41	1	1	0	1200	1200	0
8/20/2024 11:36	67505	WEWI_T1	0	0	0	0	0	0	0.02	-0.04	1	1	0	900	900	0
8/20/2024 11:37	15603	NSTR_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
8/20/2024 11:37	67401	WAKE_T2	1	2	1	0.8	0.5	-0.3	-1.01	-0.99	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/20/2024 11:37	15601	NSTR_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
8/20/2024 11:37	15604	NSTR_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
8/20/2024 11:40	67804	WLAN_T1	0	1	1	0	0.1	0.1	-1.05	-1	0	0	0	0	0	0
8/20/2024 11:40	13704	SCHN_T2	0	0	0	0	0	0	-0.17	-0.25	0	0	0	0	0	0
8/20/2024 11:40	59202	THOM_T1	2	7	5	0.45	0.29	-0.16	0	0	0	0	0	0	0	0
8/20/2024 11:40	49803	UNIV_T1	1	1	0	5.7	4.7	-1	-2.23	-2.22	0	0	0	0	0	0
8/20/2024 11:40	27504	WEIS_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
8/20/2024 11:41	66302	MCGO_T2	446	465	19	0.67	0.88	0.21	-1.56	-1.52	1	1	0	600	600	0
8/20/2024 11:43	50105	HARR_T3	7	7	0	4.91	4.76	-0.15	0	0	0	0	0	0	0	0
8/20/2024 11:43	50107	HARR_T3	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
8/20/2024 11:43	50103	HARR_T3	2	2	0	0.65	0.8	0.15	-0.67	-0.68	1	1	0	1200	1200	0
8/20/2024 11:44	64704	LITI_T1	0	0	0	0	0	0	0.6	0.53	1	1	0	600	600	0
8/20/2024 11:44	52403	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 11:44	52401	GRPA_T2	1	2	1	0.3	0.35	0.05	-0.42	-0.4	0	0	0	0	0	0
8/20/2024 11:44	52402	GRPA_T2	4	13	9	0.58	0.65	0.07	0	0	0	0	0	0	0	0
8/20/2024 11:44	55101	WERT_T1	0	0	0	0	0	0	-3.25	-3.26	6	6	0	4800	4800	0
8/20/2024 11:45	63501	HEID_TBK1-2	55	56	1	1.23	1.31	0.08	0.51	0.54	2	2	0	1800	1800	0
8/20/2024 11:45	24702	FLND_T2	0	1	1	0	0.3	0.3	0.55	0.75	2	2	0	2400	2400	0
8/20/2024 11:46	45802	HEGI_T2	2	11	9	0.2	0.35	0.15	0.81	1.04	0	0	0	0	0	0
8/20/2024 11:46	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 11:46	50501	MECH_T1	4	4	0	1.2	1.03	-0.17	-0.65	-0.38	0	0	0	0	0	0
8/20/2024 11:46	17804	GILB_T2	0	2	2	0	0.3	0.3	-0.52	-0.5	0	0	0	0	0	0
8/20/2024 11:46	17803	GILB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/20/2024 11:46	50502	MECH_T1	1	1	0	2.6	2.3	-0.3	0	0	0	0	0	0	0	0
8/20/2024 11:46	63501	HEID_TBK1-2	55	56	1	1.23	1.31	0.08	0.26	0.27	1	1	0	900	900	0
8/20/2024 11:47	12002	HATF_T1	0	0	0	0	0	0	-0.27	-0.17	1	1	0	1200	1200	0
8/20/2024 11:47	44703	MUNC_T2	2	2	0	0.5	0.5	0	0.95	1.01	0	0	0	0	0	0
8/20/2024 11:47	54505	ENOL_T2	1	1	0	0.7	0.5	-0.2	-0.58	-0.57	0	0	0	0	0	0
8/20/2024 11:47	50501	MECH_T1	4	4	0	1.2	1.03	-0.17	0	0	0	0	0	0	0	0
8/20/2024 11:47	63501	HEID_TBK1-2	55	56	1	1.23	1.31	0.08	0.51	0.54	2	2	0	1800	1800	0
8/20/2024 11:47	54502	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 11:47	50502	MECH_T1	1	1	0	2.6	2.3	-0.3	-0.23	-0.18	1	1	0	1200	1200	0
8/20/2024 11:47	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 11:47	44701	MUNC_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 11:47	54504	ENOL_T2	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
8/20/2024 11:48	54502	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 11:48	54505	ENOL_T2	1	1	0	0.7	0.5	-0.2	-0.58	-0.57	0	0	0	0	0	0
8/20/2024 11:48	54504	ENOL_T2	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
8/20/2024 11:50	67201	TEHI_T1	0	0	0	0	0	0	1.21	1.26	1	1	0	900	900	0
8/20/2024 11:51	60504	NMAN_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
8/20/2024 11:51	60501	NMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/20/2024 11:51	60502	NMAN_T2	0	0	0	0	0	0	0.05	-0.01	0	0	0	0	0	0
8/20/2024 11:52	67503	WEWI_T2	1	1	0	8.2	8.2	0	-0.09	-0.11	0	0	0	0	0	0
8/20/2024 11:54	67702	WERN_T2	2	0	-2	0.25	0	-0.25	83.96	83.96	0	0	0	0	0	0
8/20/2024 11:54	67605	WARW_T1	13	13	0	0.48	0.42	-0.06	0	0	0	0	0	0	0	0
8/20/2024 11:54	67703	WERN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/20/2024 11:54	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 11:54	67203	TEHI_T1	0	0	0	0	0	0	2.18	2.61	3	3	0	2100	2100	0
8/20/2024 11:56	67605	WARW_T1	13	13	0	0.48	0.42	-0.06	-0.93	-0.96	0	0	0	0	0	0
8/20/2024 11:56	66302	MCGO_T2	458	458	0	0.83	0.87	0.04	-1.52	-1.35	1	1	0	600	600	0
8/20/2024 11:56	11104	EGYP_T1	0	0	0	0	0	0	1.49	1.46	0	0	0	0	0	0
8/20/2024 11:57	44801	EDAN_T2	143	158	15	0.53	0.62	0.09	-1.51	-1.53	0	0	0	0	0	0
8/20/2024 11:57	51603	DUKE_T1	2	0	-2	0.25	0	-0.25	-0.4	-0.36	0	0	0	0	0	0
8/20/2024 11:59	11805	FRAN_T1	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
8/20/2024 11:59	64201	KINZ_T1	1	0	-1	2.4	0	-2.4	-0.14	-0.29	3	3	0	1500	1500	0
8/20/2024 11:59	64204	KINZ_T1	12	21	9	0.33	0.33	0	0	0	0	0	0	0	0	0
8/20/2024 11:59	11104	EGYP_T1	0	0	0	0	0	0	0.74	0.73	0	0	0	0	0	0
8/20/2024 12:00	63804	HEMP_T1	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
8/20/2024 12:00	63802	HEMP_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
8/20/2024 12:01	40802	EXCH_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/20/2024 12:01	46801	HEPB_T2	3	3	0	0.6	0.63	0.03	0.67	0.7	0	0	0	0	0	0
8/20/2024 12:01	63804	HEMP_T1	1	0	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
8/20/2024 12:01	63803	HEMP_T1	0	0	0	0	0	0	0.37	0.4	0	0	0	0	0	0
8/20/2024 12:01	46101	MACI_T2	0	0	0	0	0	0	1.27	1.33	0	0	0	0	0	0
8/20/2024 12:01	40801	EXCH_T2	1	2	1	0.7	0.55	-0.15	-0.4	-0.4	1	1	0	1200	1200	0
8/20/2024 12:01	46803	HEPB_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 12:02	52004	LING_T2	5	3	-2	2.78	3.8	1.02	0	0	0	0	0	0	0	0
8/20/2024 12:02	64204	KINZ_T1	6	22	16	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
8/20/2024 12:02	16402	MOPO_T1	1	0	-1	0.2	0	-0.2	0.23	0.13	0	0	0	0	0	0
8/20/2024 12:02	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
8/20/2024 12:02	64201	KINZ_T1	0	0	0	0	0	0	-0.14	-0.29	3	3	0	1500	1500	0
8/20/2024 12:03	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
8/20/2024 12:03	51202	MTON_T2	0	1	1	0	1.4	1.4	0.24	0.27	0	0	0	0	0	0
8/20/2024 12:03	52004	LING_T2	5	3	-2	2.78	3.8	1.02	0	0	0	0	0	0	0	0
8/20/2024 12:04	64101	REFR_T1	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
8/20/2024 12:06	23002	SAJO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 12:06	23001	SAJO_T1	0	0	0	0	0	0	0.16	0.19	0	0	0	0	0	0
8/20/2024 12:06	51202	MTON_T2	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
8/20/2024 12:06	51204	MTON_T2	0	0	0	0	0	0	-0.25	-0.26	1	1	0	600	600	0
8/20/2024 12:07	64101	REFR_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
8/20/2024 12:07	51202	MTON_T2	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
8/20/2024 12:07	59202	THOM_T1	6	20	14	0.22	0.47	0.25	0	0	0	0	0	0	0	0
8/20/2024 12:07	13303	ORVI_T1	0	0	0	0	0	0	1.21	1.21	0	0	0	0	0	0
8/20/2024 12:07	51204	MTON_T2	0	0	0	0	0	0	-0.26	-0.27	1	1	0	600	600	0
8/20/2024 12:07	46301	ROHR_T1	5	3	-2	1.94	2.7	0.76	0	0	0	0	0	0	0	0
8/20/2024 12:07	59201	THOM_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/20/2024 12:07	46302	ROHR_T1	4	5	1	1.95	1.5	-0.45	0.15	0.15	0	0	0	0	0	0
8/20/2024 12:08	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/20/2024 12:08	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 12:08	65205	PRIN_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
8/20/2024 12:08	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	-0.15	-0.16	0	0	0	0	0	0
8/20/2024 12:08	60502	NMAN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/20/2024 12:08	42801	SELI_T1	0	0	0	0	0	0	-1.27	-1.32	1	1	0	1200	1200	0
8/20/2024 12:08	66502	SMAN_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/20/2024 12:08	60501	NMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/20/2024 12:08	60504	NMAN_T2	2	3	1	0.25	0.87	0.62	0	0	0	0	0	0	0	0
8/20/2024 12:09	46002	BERW_T2	0	0	0	0	0	0	-1.21	-1.19	1	1	0	900	900	0
8/20/2024 12:09	66502	SMAN_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/20/2024 12:09	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 12:09	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	-0.46	-0.49	0	0	0	0	0	0
8/20/2024 12:09	64101	REFR_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
8/20/2024 12:11	46501	DERR_T2	0	0	0	0	0	0	0.61	0.6	2	2	0	1800	1800	0
8/20/2024 12:11	59201	THOM_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/20/2024 12:11	59202	THOM_T1	6	20	14	0.22	0.47	0.25	0	0	0	0	0	0	0	0
8/20/2024 12:11	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 12:12	51603	DUKE_T1	0	0	0	0	0	0	-0.36	-0.32	0	0	0	0	0	0
8/20/2024 12:12	51301	WIND_T1	0	5	5	0	0.48	0.48	0	0	0	0	0	0	0	0
8/20/2024 12:12	51305	WIND_T1	1	1	0	0.6	0.8	0.2	0.26	0.31	0	0	0	0	0	0
8/20/2024 12:13	10805	CHHI_T2	1	1	0	7.7	7.5	-0.2	-1.04	-1	2	2	0	1800	1800	0
8/20/2024 12:13	40801	EXCH_T2	1	2	1	0.7	0.55	-0.15	-0.4	-0.41	1	1	0	1200	1200	0
8/20/2024 12:13	40802	EXCH_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/20/2024 12:14	10805	CHHI_T2	1	1	0	7.7	7.5	-0.2	-1.04	-1	2	2	0	1800	1800	0
8/20/2024 12:14	51603	DUKE_T1	0	0	0	0	0	0	-0.36	-0.32	0	0	0	0	0	0
8/20/2024 12:17	66301	MCGO_T2	0	0	0	0	0	0	-0.4	-0.36	0	0	0	0	0	0
8/20/2024 12:17	42903	MIDD_T2	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
8/20/2024 12:17	66302	MCGO_T2	394	382	-12	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
8/20/2024 12:17	42902	MIDD_T2	7	9	2	0.8	0.39	-0.41	-0.18	-0.19	1	1	0	600	600	0
8/20/2024 12:17	42901	MIDD_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/20/2024 12:18	42901	MIDD_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/20/2024 12:18	42902	MIDD_T2	7	9	2	0.8	0.39	-0.41	0	0	0	0	0	0	0	0
8/20/2024 12:18	42903	MIDD_T2	2	2	0	1.1	1.15	0.05	1.08	1.12	0	0	0	0	0	0
8/20/2024 12:18	40101	HUNT_T2	2	3	1	0.55	0.4	-0.15	-0.1	-0.08	0	0	0	0	0	0
8/20/2024 12:19	62102	ELAN_T1	0	1	1	0	0.1	0.1	0.78	0.76	0	0	0	0	0	0
8/20/2024 12:19	54502	ENOL_T2	0	0	0	0	0	0	-1.13	-1.14	1	1	0	600	600	0
8/20/2024 12:19	51702	OBER_T1	2	5	3	2.85	1.5	-1.35	0.24	0.29	1	1	0	600	600	0
8/20/2024 12:19	40101	HUNT_T2	2	3	1	0.55	0.4	-0.15	-0.1	-0.08	0	0	0	0	0	0
8/20/2024 12:19	62105	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/20/2024 12:19	54504	ENOL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/20/2024 12:19	54506	ENOL_T2	0	0	0	0	0	0	-0.3	-0.33	1	1	0	600	600	0
8/20/2024 12:19	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/20/2024 12:20	66302	MCGO_T2	394	382	-12	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
8/20/2024 12:20	42302	MOWR_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
8/20/2024 12:20	64904	MILL_T1	0	1	1	0	0.1	0.1	-0.29	-0.31	0	0	0	0	0	0
8/20/2024 12:20	66301	MCGO_T2	0	0	0	0	0	0	-0.4	-0.36	0	0	0	0	0	0
8/20/2024 12:21	58201	NEWV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 12:21	58202	NEWV_T1	0	0	0	0	0	0	-0.08	-0.13	0	0	0	0	0	0
8/20/2024 12:22	67803	WLAN_T1	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
8/20/2024 12:22	67804	WLAN_T1	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
8/20/2024 12:23	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
8/20/2024 12:23	51305	WIND_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
8/20/2024 12:23	51702	OBER_T1	2	5	3	2.85	1.5	-1.35	0.29	0.27	1	1	0	600	600	0
8/20/2024 12:23	65901	SAKR_T2	1	1	0	7.6	7.6	0	0	0	0	0	0	0	0	0
8/20/2024 12:23	51304	WIND_T2	1	1	0	0.1	1.4	1.3	0.08	0.06	0	0	0	0	0	0
8/20/2024 12:23	65904	SAKR_T2	0	4	4	0	0.2	0.2	-1.95	-1.95	3	3	0	1500	1500	0
8/20/2024 12:23	51301	WIND_T1	4	5	1	0.5	0.54	0.04	-0.13	-0.1	0	0	0	0	0	0
8/20/2024 12:23	51306	WIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 12:23	64903	MILL_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 12:23	51303	WIND_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/20/2024 12:23	64902	MILL_T2	0	0	0	0	0	0	-0.59	-0.57	1	1	0	900	900	0
8/20/2024 12:24	51306	WIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 12:24	67804	WLAN_T1	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
8/20/2024 12:24	67805	WLAN_T1	0	0	0	0	0	0	-0.73	-0.67	0	0	0	0	0	0
8/20/2024 12:24	51304	WIND_T2	1	1	0	0.1	1.4	1.3	0	0	0	0	0	0	0	0
8/20/2024 12:24	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 12:26	10707	CATA_T2	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
8/20/2024 12:27	67804	WLAN_T1	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
8/20/2024 12:27	60201	ATGL_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
8/20/2024 12:27	67805	WLAN_T1	0	0	0	0	0	0	-0.73	-0.67	0	0	0	0	0	0
8/20/2024 12:27	61701	ELIZ_T1	2	2	0	1.85	2.3	0.45	1.64	1.65	0	0	0	0	0	0
8/20/2024 12:27	55101	WERT_T1	0	0	0	0	0	0	-1.61	-1.64	3	3	0	2400	2400	0
8/20/2024 12:27	61703	ELIZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/20/2024 12:28	24102	EHAZ_T1	1	2	1	0.2	1.1	0.9	0	0	0	0	0	0	0	0
8/20/2024 12:28	24104	EHAZ_T1	0	1	1	0	0.1	0.1	-0.8	-0.79	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/20/2024 12:28	44903	SCOT_T1	0	0	0	0	0	0	0.63	0.53	0	0	0	0	0	0
8/20/2024 12:28	24105	EHAZ_T1	4	4	0	6.7	6.73	0.03	0	0	0	0	0	0	0	0
8/20/2024 12:28	63302	GREE_T1	0	0	0	0	0	0	0.82	0.85	0	0	0	0	0	0
8/20/2024 12:29	46802	HEPB_T1	1	1	0	1.4	1.4	0	-0.16	-0.15	0	0	0	0	0	0
8/20/2024 12:29	60803	BUCK_T1	5	12	7	0.1	0.17	0.07	0	0	0	0	0	0	0	0
8/20/2024 12:29	60801	BUCK_T1	3	7	4	0.13	0.23	0.1	-0.24	-0.25	0	0	0	0	0	0
8/20/2024 12:30	46802	HEPB_T1	1	1	0	1.4	1.3	-0.1	-0.16	-0.15	0	0	0	0	0	0
8/20/2024 12:33	65601	QVIL_T2	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
8/20/2024 12:34	42001	MNVL_T2	231	221	-10	0.58	0.46	-0.12	0	0	0	0	0	0	0	0
8/20/2024 12:34	58202	NEWV_T1	0	0	0	0	0	0	-0.13	0.08	0	0	0	0	0	0
8/20/2024 12:34	42002	MNVL_T2	2	1	-1	1.55	3.1	1.55	-0.08	-0.02	0	0	0	0	0	0
8/20/2024 12:34	58201	NEWV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 12:35	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 12:37	64101	REFR_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
8/20/2024 12:37	51702	OBER_T1	3	5	2	1.93	1.52	-0.41	0.27	0.28	1	1	0	600	600	0
8/20/2024 12:37	52503	PROG_T2	0	0	0	0	0	0	-0.47	-0.38	1	1	0	900	900	0
8/20/2024 12:38	65603	QVIL_T2	0	0	0	0	0	0	0.7	0.51	0	0	0	0	0	0
8/20/2024 12:40	46506	LOHA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 12:40	13701	SCHN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/20/2024 12:40	46504	LOHA_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
8/20/2024 12:40	52503	PROG_T2	0	0	0	0	0	0	-0.47	-0.38	1	1	0	900	900	0
8/20/2024 12:40	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 12:40	13704	SCHN_T2	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0
8/20/2024 12:40	46503	LOHA_T1	1	1	0	0.1	0.3	0.2	-0.6	-0.6	0	0	0	0	0	0
8/20/2024 12:41	60803	BUCK_T1	12	10	-2	0.17	0.18	0.01	-0.88	-0.9	2	2	0	1200	1200	0
8/20/2024 12:41	60801	BUCK_T1	7	4	-3	0.21	0.15	-0.06	0	0	0	0	0	0	0	0
8/20/2024 12:42	60801	BUCK_T1	7	4	-3	0.21	0.15	-0.06	0	0	0	0	0	0	0	0
8/20/2024 12:42	50103	HARR_T3	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
8/20/2024 12:42	50202	HARR_T3	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
8/20/2024 12:42	50105	HARR_T3	6	6	0	5.75	5.72	-0.03	0	0	0	0	0	0	0	0
8/20/2024 12:42	50107	HARR_T3	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
8/20/2024 12:42	60803	BUCK_T1	12	10	-2	0.17	0.18	0.01	-0.44	-0.45	1	1	0	600	600	0
8/20/2024 12:43	11507	FREE_T2	0	0	0	0	0	0	0.65	0.68	0	0	0	0	0	0
8/20/2024 12:44	58201	NEWV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 12:44	58202	NEWV_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
8/20/2024 12:44	17401	FOHI_T1	0	0	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0
8/20/2024 12:44	57505	LAWN_T3	0	0	0	0	0	0	0.61	0.68	0	0	0	0	0	0
8/20/2024 12:45	45502	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/20/2024 12:45	46506	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/20/2024 12:45	46503	LOHA_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/20/2024 12:45	60101	COCA_T1	0	1	1	0	0.3	0.3	0.34	0.38	0	0	0	0	0	0
8/20/2024 12:45	45501	DERR_T2	0	1	1	0	0.1	0.1	0.56	0.57	2	2	0	1800	1800	0
8/20/2024 12:45	60803	BUCK_T1	10	1	-9	0.18	0.1	-0.08	-0.44	-0.45	1	1	0	600	600	0
8/20/2024 12:45	46504	LOHA_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
8/20/2024 12:45	46501	LOHA_T1	0	1	1	0	0	0	0.16	0.23	1	1	0	1200	1200	0
8/20/2024 12:45	60801	BUCK_T1	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/20/2024 12:46	63801	HEMP_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/20/2024 12:46	63803	HEMP_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
8/20/2024 12:46	63804	HEMP_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
8/20/2024 12:47	46501	LOHA_T1	0	1	1	0	0	0	0.16	0.23	1	1	0	1200	1200	0
8/20/2024 12:47	42903	MIDD_T2	0	0	0	0	0	0	1.61	1.92	0	0	0	0	0	0
8/20/2024 12:47	46506	LOHA_T1	1	0	-1	0.1	0	-0.1	0.04	0.01	0	0	0	0	0	0
8/20/2024 12:47	46503	LOHA_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/20/2024 12:47	46504	LOHA_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
8/20/2024 12:47	42902	MIDD_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/20/2024 12:47	65702	RVIL_T2	0	0	0	0	0	0	-0.5	-0.46	1	1	0	600	600	0
8/20/2024 12:48	12801	MICK_T1	0	0	0	0	0	0	-0.96	-0.9	0	0	0	0	0	0
8/20/2024 12:48	46506	LOHA_T1	1	0	-1	0.1	0	-0.1	0.04	0.01	0	0	0	0	0	0
8/20/2024 12:48	46501	LOHA_T1	0	1	1	0	0	0	0.16	0.23	1	1	0	1200	1200	0
8/20/2024 12:48	46503	LOHA_T1	1	1	0	0.3	0.5	0.2	-0.6	-0.6	0	0	0	0	0	0
8/20/2024 12:48	46504	LOHA_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
8/20/2024 12:48	12807	MICK_T1	1	2	1	0.4	0.45	0.05	-0.7	0.31	0	0	0	0	0	0
8/20/2024 12:49	64902	MILL_T2	0	0	0	0	0	0	-0.57	-0.57	1	1	0	900	900	0
8/20/2024 12:49	64204	KINZ_T1	5	13	8	0.62	0.38	-0.24	0	0	0	0	0	0	0	0
8/20/2024 12:49	64201	KINZ_T1	0	0	0	0	0	0	-0.21	-0.35	3	4	1	1500	2100	600
8/20/2024 12:50	46506	LOHA_T1	1	0	-1	0.1	0	-0.1	0.04	0.01	0	0	0	0	0	0
8/20/2024 12:50	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 12:50	46504	LOHA_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
8/20/2024 12:50	54504	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
8/20/2024 12:50	46503	LOHA_T1	1	1	0	0.3	0.5	0.2	-0.6	-0.6	0	0	0	0	0	0
8/20/2024 12:50	60101	COCA_T1	0	1	1	0	0.3	0.3	0.34	0.38	0	0	0	0	0	0
8/20/2024 12:50	58401	MORO_T1	0	0	0	0	0	0	-1.72	-1.67	2	2	0	1200	1200	0
8/20/2024 12:50	54505	ENOL_T2	1	2	1	0.6	0.4	-0.2	-0.57	-0.57	0	0	0	0	0	0
8/20/2024 12:51	66502	SMAN_T2	0	1	1	0	0.5	0.5	0.25	0.28	0	0	0	0	0	0
8/20/2024 12:51	44203	POIN_T2	0	0	0	0	0	0	-0.22	0	2	2	0	2100	2100	0
8/20/2024 12:51	44202	POIN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/20/2024 12:52	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 12:53	14404	SSLA_T1	17	21	4	1.08	1.12	0.04	0	0	0	0	0	0	0	0
8/20/2024 12:53	14402	SSLA_T1	3	19	16	0.33	0.37	0.04	0	0	0	0	0	0	0	0
8/20/2024 12:53	14401	SSLA_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/20/2024 12:53	14403	SSLA_T1	2	4	2	0.15	0.15	0	0.19	0.24	0	0	0	0	0	0
8/20/2024 12:54	49803	UNIV_T1	1	1	0	4.8	4.9	0.1	-2.24	-2.12	0	0	0	0	0	0
8/20/2024 12:55	55002	NEWP_T1	12	11	-1	0.85	0.81	-0.04	0	0	0	0	0	0	0	0
8/20/2024 12:55	55001	NEWP_T1	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
8/20/2024 12:57	11903	ETEX_T1	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
8/20/2024 12:58	11903	ETEX_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 12:59	40901	JESH_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/20/2024 12:59	14203	EALL_T1	0	0	0	0	0	0	-0.04	-0.05	1	1	0	1200	1200	0
8/20/2024 12:59	40902	JESH_T1	0	0	0	0	0	0	-0.46	0.26	2	0	-2	1200	0	-1200
8/20/2024 12:59	61303	EARL_T1	0	0	0	0	0	0	1.06	1.09	0	0	0	0	0	0
8/20/2024 13:00	40902	JESH_T1	0	0	0	0	0	0	-0.46	0.26	2	0	-2	1200	0	-1200
8/20/2024 13:00	40901	JESH_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/20/2024 13:00	53902	HALI_T2	3	2	-1	2.27	3.1	0.83	0	0	0	0	0	0	0	0
8/20/2024 13:00	53903	HALI_T2	6	4	-2	0.87	1.03	0.16	-0.05	-0.04	0	0	0	0	0	0
8/20/2024 13:00	11904	ETEX_T2	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
8/20/2024 13:00	11901	ETEX_T2	0	0	0	0	0	0	0.53	0.47	0	0	0	0	0	0
8/20/2024 13:00	53901	HALI_T2	1	2	1	1.3	0.65	-0.65	0	0	0	0	0	0	0	0
8/20/2024 13:01	48302	ORWI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/20/2024 13:01	45902	AUBU_T1	0	0	0	0	0	0	-0.79	-0.85	2	2	0	1200	1200	0
8/20/2024 13:04	40901	JESH_T1	1	1	0	0.1	0.4	0.3	0.41	0.36	0	0	0	0	0	0
8/20/2024 13:04	42902	MIDD_T2	1	0	-1	0.3	0	-0.3	-0.26	-0.26	1	1	0	600	600	0
8/20/2024 13:05	46004	BERW_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
8/20/2024 13:06	42902	MIDD_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/20/2024 13:07	42902	MIDD_T2	1	0	-1	0.3	0	-0.3	-0.26	-0.14	1	1	0	600	600	0
8/20/2024 13:07	42802	SELI_T1	1	1	0	0.4	0.5	0.1	-0.98	-1	1	1	0	900	900	0
8/20/2024 13:08	59002	MIFF_T1	5	6	1	0.12	0.5	0.38	0	0	0	0	0	0	0	0
8/20/2024 13:08	59003	MIFF_T1	0	1	1	0	0.3	0.3	-0.21	-0.09	0	0	0	0	0	0
8/20/2024 13:08	59001	MIFF_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
8/20/2024 13:08	42802	SELI_T1	1	1	0	0.4	0.5	0.1	-0.98	-1	1	1	0	900	900	0
8/20/2024 13:09	60101	COCA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/20/2024 13:09	60102	COCA_T1	0	0	0	0	0	0	-0.46	-0.3	3	3	0	2100	2100	0
8/20/2024 13:10	42601	TUSC_T1	0	0	0	0	0	0	-0.53	-0.68	2	2	0	1800	1800	0
8/20/2024 13:10	42802	SELI_T1	1	1	0	0.4	0.5	0.1	-1.96	-2.01	2	2	0	1800	1800	0
8/20/2024 13:10	42701	AUGU_T1	1	1	0	1.6	1.5	-0.1	0	0	2	2	0	1800	1800	0
8/20/2024 13:12	54603	SUMM_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 13:12	54601	SUMM_T2	1	1	0	0.3	0.4	0.1	-1.67	-1.67	2	2	0	2100	2100	0
8/20/2024 13:12	45601	WOOL_T1	0	0	0	0	0	0	1.15	1.1	0	0	0	0	0	0
8/20/2024 13:12	45602	WOOL_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
8/20/2024 13:12	13704	SCHN_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
8/20/2024 13:14	61801	EELI_T2	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
8/20/2024 13:14	26704	HEML_T2	0	0	0	0	0	0	-0.68	-0.66	1	1	0	1200	1200	0
8/20/2024 13:15	63403	HONY_T2	0	0	0	0	0	0	-0.12	-0.11	1	1	0	600	600	0
8/20/2024 13:15	23202	HIRU_T2	2	3	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/20/2024 13:15	45802	HEGI_T2	24	12	-12	0.4	0.35	-0.05	0.55	0.58	1	1	0	900	900	0
8/20/2024 13:15	23203	HIRU_T2	2	1	-1	0.2	0.2	0	0.17	0.17	0	0	0	0	0	0
8/20/2024 13:15	11205	ELHE_T1	0	0	0	0	0	0	-0.41	-0.42	1	1	0	1200	1200	0
8/20/2024 13:15	23201	HIRU_T2	4	5	1	0.18	0.28	0.1	0	0	0	0	0	0	0	0
8/20/2024 13:16	17801	GILB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 13:16	45802	HEGI_T2	24	12	-12	0.4	0.35	-0.05	0.55	0.58	1	1	0	900	900	0
8/20/2024 13:16	61502	EPET_T1	0	0	0	0	0	0	-0.57	-0.46	0	0	0	0	0	0
8/20/2024 13:18	63501	HEID_TBK1-2	56	56	0	1.45	1.55	0.1	0.44	0.33	1	1	0	900	900	0
8/20/2024 13:18	60501	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 13:18	60504	NMAN_T2	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/20/2024 13:18	60502	NMAN_T2	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
8/20/2024 13:20	41902	REED_T1	0	0	0	0	0	0	1.16	1.16	0	0	0	0	0	0
8/20/2024 13:21	64101	REFR_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
8/20/2024 13:24	43304	WATS_T2	0	1	1	0	0.1	0.1	-0.51	-0.57	0	0	0	0	0	0
8/20/2024 13:24	43301	WATS_T2	1	3	2	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
8/20/2024 13:24	43302	WATS_T2	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
8/20/2024 13:24	67702	WERN_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
8/20/2024 13:25	60404	DILL_T2	0	1	1	0	0	0	0.54	0.7	1	1	0	1200	1200	0
8/20/2024 13:26	43301	WATS_T2	1	3	2	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
8/20/2024 13:26	43304	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 13:26	10704	CATA_T2	0	0	0	0	0	0	1.32	1.38	1	1	0	1200	1200	0
8/20/2024 13:26	14801	TREI_T2	115	85	-30	0.39	0.4	0.01	-0.23	-0.19	0	0	0	0	0	0
8/20/2024 13:26	10705	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 13:26	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 13:26	14802	TREI_T2	7	8	1	0.16	0.34	0.18	0.71	0.7	0	0	0	0	0	0
8/20/2024 13:26	10805	CHHI_T2	1	1	0	7.3	7.2	-0.1	-0.99	-0.93	2	2	0	1800	1800	0
8/20/2024 13:26	43302	WATS_T2	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
8/20/2024 13:27	14802	TREI_T2	7	8	1	0.16	0.34	0.18	0.71	0.7	0	0	0	0	0	0
8/20/2024 13:27	45602	WOOL_T1	0	3	3	0	0.3	0.3	0.75	0.79	0	0	0	0	0	0
8/20/2024 13:27	14801	TREI_T2	115	85	-30	0.39	0.4	0.01	-0.23	-0.19	0	0	0	0	0	0
8/20/2024 13:28	14801	TREI_T2	115	85	-30	0.39	0.4	0.01	-0.23	-0.19	0	0	0	0	0	0
8/20/2024 13:28	14802	TREI_T2	7	8	1	0.16	0.34	0.18	0.71	0.7	0	0	0	0	0	0
8/20/2024 13:34	52402	GRPA_T2	3	3	0	0.37	0.27	-0.1	0	0	0	0	0	0	0	0
8/20/2024 13:34	54505	ENOL_T2	2	1	-1	0.3	0.6	0.3	-1.19	-1.18	1	1	0	600	600	0
8/20/2024 13:34	52403	GRPA_T2	0	1	1	0	0.1	0.1	0.14	0.17	0	0	0	0	0	0
8/20/2024 13:36	12302	LANA_T2	0	0	0	0	0	0	-1.53	-1.52	2	2	0	1500	1500	0
8/20/2024 13:40	22901	HARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 13:40	22903	HARW_T1	0	2	2	0	0	0	0.29	0.43	0	0	0	0	0	0
8/20/2024 13:40	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/20/2024 13:40	62604	ENGL_T1	0	0	0	0	0	0	-0.58	-0.52	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/20/2024 13:41	43302	WATS_T2	4	4	0	0.38	0.45	0.07	0	0	0	0	0	0	0	0
8/20/2024 13:41	13701	SCHN_T2	0	0	0	0	0	0	0.29	0.3	1	1	0	600	600	0
8/20/2024 13:41	43301	WATS_T2	1	2	1	0.6	0.4	-0.2	-1.09	-1.04	2	2	0	1800	1800	0
8/20/2024 13:41	44801	EDAN_T2	74	77	3	0.51	0.5	-0.01	-1.49	-1.44	0	0	0	0	0	0
8/20/2024 13:41	61803	EELI_T2	0	0	0	0	0	0	0.42	0.51	1	1	0	600	600	0
8/20/2024 13:41	43304	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 13:43	29402	BELT_T1	1	1	0	7.8	7.9	0.1	0	0	0	0	0	0	0	0
8/20/2024 13:43	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 13:44	60803	BUCK_T1	0	0	0	0	0	0	-0.45	-0.42	1	1	0	600	600	0
8/20/2024 13:44	17802	GILB_T1	0	0	0	0	0	0	0.23	0.27	0	0	0	0	0	0
8/20/2024 13:44	45801	HEGI_T1	0	0	0	0	0	0	0.16	0.12	1	1	0	900	900	0
8/20/2024 13:45	23202	HIRU_T2	2	5	3	0.15	0.28	0.13	0.13	0.13	0	0	0	0	0	0
8/20/2024 13:45	23201	HIRU_T2	3	4	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
8/20/2024 13:45	23203	HIRU_T2	1	5	4	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
8/20/2024 13:46	40101	HUNT_T2	3	1	-2	0.47	0.7	0.23	-0.02	-0.3	0	0	0	0	0	0
8/20/2024 13:46	23201	HIRU_T2	3	4	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
8/20/2024 13:46	45802	HEGI_T2	1	41	40	0.1	0.66	0.56	0.61	0.33	1	1	0	900	900	0
8/20/2024 13:46	23401	HONE_T2	0	0	0	0	0	0	0.01	-0.03	0	0	0	0	0	0
8/20/2024 13:46	23202	HIRU_T2	2	5	3	0.15	0.28	0.13	0	0	0	0	0	0	0	0
8/20/2024 13:46	23203	HIRU_T2	1	5	4	0.2	0.14	-0.06	0.17	0.18	0	0	0	0	0	0
8/20/2024 13:47	23203	HIRU_T2	1	5	4	0.2	0.14	-0.06	0.17	0.18	0	0	0	0	0	0
8/20/2024 13:47	54505	ENOL_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/20/2024 13:47	23201	HIRU_T2	3	4	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
8/20/2024 13:47	45802	HEGI_T2	1	41	40	0.1	0.66	0.56	0.61	0.33	1	1	0	900	900	0
8/20/2024 13:47	23202	HIRU_T2	2	5	3	0.15	0.28	0.13	0	0	0	0	0	0	0	0
8/20/2024 13:47	54504	ENOL_T2	0	0	0	0	0	0	-1.71	-1.05	1	1	0	600	600	0
8/20/2024 13:48	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 13:49	40101	HUNT_T2	3	1	-2	0.47	0.7	0.23	0	0	0	0	0	0	0	0
8/20/2024 13:51	52402	GRPA_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/20/2024 13:51	46302	ROHR_T1	5	5	0	1.62	1.36	-0.26	0.15	0.16	0	0	0	0	0	0
8/20/2024 13:51	52403	GRPA_T2	0	1	1	0	0.2	0.2	0.17	0.13	0	0	0	0	0	0
8/20/2024 13:51	46301	ROHR_T1	1	2	1	7.7	3.95	-3.75	0	0	0	0	0	0	0	0
8/20/2024 13:52	65604	QVIL_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
8/20/2024 13:52	44201	POIN_T1	0	2	2	0	0.2	0.2	-0.59	-1.45	2	2	0	2100	2100	0
8/20/2024 13:52	41902	REED_T1	0	0	0	0	0	0	1.21	1.1	0	0	0	0	0	0
8/20/2024 13:53	50501	MECH_T1	4	4	0	0.4	0.53	0.13	0	0	0	0	0	0	0	0
8/20/2024 13:53	50502	MECH_T1	1	1	0	1.9	2.1	0.2	-0.18	-0.17	1	1	0	1200	1200	0
8/20/2024 13:53	46001	BERW_T1	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
8/20/2024 13:53	46005	BERW_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/20/2024 13:57	44301	BEAV_T2	1	2	1	1.1	0.6	-0.5	0.74	0.76	2	2	0	1500	1500	0
8/20/2024 13:58	63305	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 13:58	63306	GREE_T1	0	0	0	0	0	0	-1.87	-1.91	1	1	0	900	900	0
8/20/2024 13:58	54505	ENOL_T2	1	1	0	0.3	0.6	0.3	-1.18	-1.17	1	1	0	600	600	0
8/20/2024 13:58	61304	EARL_T1	0	0	0	0	0	0	-0.48	-0.54	1	1	0	600	600	0
8/20/2024 13:59	63305	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 13:59	63306	GREE_T1	0	0	0	0	0	0	-1.87	-1.91	1	1	0	900	900	0
8/20/2024 14:01	16004	DORN_T1	0	0	0	0	0	0	-0.67	-0.69	1	1	0	1200	1200	0
8/20/2024 14:01	63802	HEMP_T1	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
8/20/2024 14:01	14205	EALL_T2	0	0	0	0	0	0	-0.07	-0.03	0	0	0	0	0	0
8/20/2024 14:01	63801	HEMP_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/20/2024 14:01	63804	HEMP_T1	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
8/20/2024 14:02	40101	HUNT_T2	1	1	0	0.7	0.7	0	-0.3	-0.27	0	0	0	0	0	0
8/20/2024 14:03	65001	NEFF_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	1200	1200	0
8/20/2024 14:03	65003	NEFF_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/20/2024 14:03	65002	NEFF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 14:04	46504	LOHA_T1	1	3	2	0.9	0.67	-0.23	0	0	0	0	0	0	0	0
8/20/2024 14:04	46501	LOHA_T1	1	0	-1	1.3	0	-1.3	0.2	0.28	1	1	0	1200	1200	0
8/20/2024 14:04	65601	QVIL_T2	0	0	0	0	0	0	-0.85	-0.84	1	1	0	900	900	0
8/20/2024 14:04	46503	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 14:04	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 14:05	13501	MCMI_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
8/20/2024 14:05	56503	ROCK_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/20/2024 14:05	56501	ROCK_T2	3	2	-1	0.43	0.4	-0.03	0.25	0.23	0	0	0	0	0	0
8/20/2024 14:06	41902	REED_T1	0	0	0	0	0	0	1.1	1.06	0	0	0	0	0	0
8/20/2024 14:07	41902	REED_T1	0	0	0	0	0	0	2.21	2.12	0	0	0	0	0	0
8/20/2024 14:07	42802	SELI_T1	0	1	1	0	0.5	0.5	-4.09	-4.03	4	4	0	3600	3600	0
8/20/2024 14:08	46005	BERW_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/20/2024 14:08	46001	BERW_T1	0	0	0	0	0	0	-0.61	-0.57	0	0	0	0	0	0
8/20/2024 14:08	42802	SELI_T1	0	1	1	0	0.5	0.5	-1.02	-1.01	1	1	0	900	900	0
8/20/2024 14:09	46001	BERW_T1	0	0	0	0	0	0	-0.61	-0.57	0	0	0	0	0	0
8/20/2024 14:09	46005	BERW_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/20/2024 14:09	42802	SELI_T1	0	1	1	0	0.5	0.5	-1.02	-1.01	1	1	0	900	900	0
8/20/2024 14:09	42701	AUGU_T1	1	2	1	1.6	1.05	-0.55	0	0	2	2	0	1800	1800	0
8/20/2024 14:10	13704	SCHN_T2	0	0	0	0	0	0	-0.07	0.01	0	0	0	0	0	0
8/20/2024 14:10	13701	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 14:11	55105	WERT_T1	0	0	0	0	0	0	-0.27	-0.25	1	1	0	900	900	0
8/20/2024 14:11	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 14:11	62606	ENGL_T1	0	0	0	0	0	0	-0.42	-0.49	1	1	0	900	900	0
8/20/2024 14:11	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 14:11	61701	ELIZ_T1	2	2	0	1.8	2	0.2	0	0	0	0	0	0	0	0
8/20/2024 14:12	46001	BERW_T1	0	0	0	0	0	0	-0.61	-0.57	0	0	0	0	0	0
8/20/2024 14:12	46005	BERW_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/20/2024 14:14	47001	HUGH_T2	4	3	-1	5.4	7.07	1.67	-0.08	-0.04	0	0	0	0	0	0
8/20/2024 14:14	63501	HEID_TBK1-2	55	56	1	1.71	1.7	-0.01	0.36	0.34	1	1	0	900	900	0
8/20/2024 14:16	47202	FAXO_T2	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
8/20/2024 14:17	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 14:17	41501	FAIR_T2	0	0	0	0	0	0	-0.85	-0.9	1	1	0	600	600	0
8/20/2024 14:17	21206	ECAR_T2	1	1	0	7.7	7.4	-0.3	0.34	0.41	0	0	0	0	0	0
8/20/2024 14:18	20601	GRWO_T2	168	158	-10	0.58	0.38	-0.2	1.64	1.64	0	0	0	0	0	0
8/20/2024 14:18	47001	HUGH_T2	3	3	0	7.03	6.97	-0.06	-0.08	-0.04	0	0	0	0	0	0
8/20/2024 14:19	44703	MUNC_T2	2	2	0	0.15	0.4	0.25	0.99	1.06	0	0	0	0	0	0
8/20/2024 14:19	44701	MUNC_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 14:20	27502	WEIS_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
8/20/2024 14:20	27503	WEIS_T2	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
8/20/2024 14:22	67402	WAKE_T2	0	0	0	0	0	0	0.62	0.56	1	1	0	600	600	0
8/20/2024 14:22	59202	THOM_T1	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
8/20/2024 14:22	67401	WAKE_T2	2	1	-1	0.4	0.9	0.5	0	0	0	0	0	0	0	0
8/20/2024 14:24	59202	THOM_T1	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
8/20/2024 14:25	59202	THOM_T1	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
8/20/2024 14:26	67501	WEWI_T1	1	1	0	0.5	0.8	0.3	-0.83	-0.97	1	1	0	600	600	0
8/20/2024 14:26	67804	WLAN_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/20/2024 14:26	67803	WLAN_T1	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
8/20/2024 14:27	67502	WEWI_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/20/2024 14:27	45501	DERR_T2	1	1	0	0.5	0.1	-0.4	0.62	0.52	2	2	0	1800	1800	0
8/20/2024 14:27	67503	WEWI_T2	1	2	1	8.2	4.45	-3.75	0.04	0.04	0	0	0	0	0	0
8/20/2024 14:27	11901	ETEX_T2	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
8/20/2024 14:28	11402	FARM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 14:28	44801	EDAN_T2	110	125	15	0.48	0.59	0.11	-1.53	-1.5	0	0	0	0	0	0
8/20/2024 14:28	63801	HEMP_T1	0	1	1	0	0.1	0.1	-0.18	-0.58	1	1	0	900	900	0
8/20/2024 14:28	45501	DERR_T2	1	1	0	0.5	0.1	-0.4	1.24	1.05	4	4	0	3600	3600	0
8/20/2024 14:28	63804	HEMP_T1	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
8/20/2024 14:28	11404	FARM_T1	0	0	0	0	0	0	0.87	0.88	0	0	0	0	0	0
8/20/2024 14:29	61702	ELIZ_T2	0	0	0	0	0	0	-1.76	-1.8	2	2	0	1500	1500	0
8/20/2024 14:29	45501	DERR_T2	1	1	0	0.5	0.1	-0.4	0.62	0.52	2	2	0	1800	1800	0
8/20/2024 14:29	61301	EARL_T1	0	0	0	0	0	0	-0.96	-1.03	2	2	0	1800	1800	0
8/20/2024 14:29	67605	WARW_T1	7	9	2	0.27	0.34	0.07	-0.91	-0.9	0	0	0	0	0	0
8/20/2024 14:30	44801	EDAN_T2	125	94	-31	0.59	0.53	-0.06	-1.53	-1.5	0	0	0	0	0	0
8/20/2024 14:30	46803	HEPB_T2	0	2	2	0	0.5	0.5	0.53	0.54	0	0	0	0	0	0
8/20/2024 14:30	46801	HEPB_T2	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 14:31	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.62	0.52	2	2	0	1800	1800	0
8/20/2024 14:31	64602	LEOL_T1	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
8/20/2024 14:31	64601	LEOL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 14:33	52001	LING_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 14:34	40601	PIGR_T1	3	2	-1	0.17	0.4	0.23	0	0	0	0	0	0	0	0
8/20/2024 14:34	40602	PIGR_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
8/20/2024 14:35	52001	LING_T1	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
8/20/2024 14:35	50502	MECH_T1	1	1	0	1.8	2.4	0.6	-0.28	-0.16	1	1	0	1200	1200	0
8/20/2024 14:35	50501	MECH_T1	4	4	0	0.65	1.05	0.4	0	0	0	0	0	0	0	0
8/20/2024 14:35	41902	REED_T1	0	0	0	0	0	0	1.06	1.19	0	0	0	0	0	0
8/20/2024 14:36	52001	LING_T1	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
8/20/2024 14:38	44201	POIN_T1	0	4	4	0	0.1	0.1	-1.51	-1.61	2	2	0	2100	2100	0
8/20/2024 14:39	60101	COCA_T1	0	1	1	0	0.6	0.6	0.46	0.49	0	0	0	0	0	0
8/20/2024 14:39	64101	REFR_T1	0	2	2	0	0.5	0.5	0.06	0.06	0	0	0	0	0	0
8/20/2024 14:44	60101	COCA_T1	0	1	1	0	0.6	0.6	1.37	1.48	0	0	0	0	0	0
8/20/2024 14:44	44801	EDAN_T2	125	94	-31	0.59	0.53	-0.06	-1.5	-1.51	0	0	0	0	0	0
8/20/2024 14:45	61002	DONV_T2	0	0	0	0	0	0	-0.12	-0.11	1	1	0	600	600	0
8/20/2024 14:46	65004	NEFF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/20/2024 14:46	65003	NEFF_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/20/2024 14:46	65005	NEFF_T2	1	0	-1	0.2	0	-0.2	0.07	0.05	0	0	0	0	0	0
8/20/2024 14:49	42001	MNVL_T2	222	230	8	0.54	0.62	0.08	-0.21	-0.19	0	0	0	0	0	0
8/20/2024 14:49	42002	MNVL_T2	1	1	0	2.9	2.8	-0.1	-0.05	0.02	0	0	0	0	0	0
8/20/2024 14:49	42902	MIDD_T2	3	2	-1	0.23	0.2	-0.03	-0.04	-0.11	1	1	0	600	600	0
8/20/2024 14:49	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 14:50	13103	NHAM_T2	0	0	0	0	0	0	-1.54	-1.57	1	1	0	600	600	0
8/20/2024 14:50	43301	WATS_T2	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
8/20/2024 14:50	43304	WATS_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
8/20/2024 14:51	41902	REED_T1	0	0	0	0	0	0	1.18	1.17	0	0	0	0	0	0
8/20/2024 14:53	65401	MARI_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
8/20/2024 14:53	65402	MARI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/20/2024 14:54	66302	MCGO_T2	0	0	0	0	0	0	-0.89	-1.43	1	1	0	600	600	0
8/20/2024 14:55	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 14:55	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/20/2024 14:56	54603	SUMM_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 14:56	54601	SUMM_T2	6	13	7	0.28	0.45	0.17	-1.63	-1.64	2	2	0	2100	2100	0
8/20/2024 14:57	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 14:57	10205	ALLE_T3	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/20/2024 14:57	13704	SCHN_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
8/20/2024 14:58	54603	SUMM_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 14:58	54601	SUMM_T2	6	13	7	0.28	0.45	0.17	-1.63	-1.64	2	2	0	2100	2100	0
8/20/2024 14:59	63804	HEMP_T1	1	1	0	6.8	6.6	-0.2	0.07	0.04	0	0	0	0	0	0
8/20/2024 14:59	54603	SUMM_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 14:59	54601	SUMM_T2	6	13	7	0.28	0.45	0.17	-3.26	-3.27	4	4	0	4200	4200	0
8/20/2024 15:00	64305	LINC_T1	0	0	0	0	0	0	0.12	0.24	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/20/2024 15:02	28403	HART_T2	0	0	0	0	0	0	-0.88	-0.87	1	1	0	900	900	0
8/20/2024 15:03	51202	MTON_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/20/2024 15:03	51204	MTON_T2	0	0	0	0	0	0	-0.26	-0.26	1	1	0	600	600	0
8/20/2024 15:04	16006	DORN_T2	0	0	0	0	0	0	-0.35	-0.35	1	1	0	1200	1200	0
8/20/2024 15:05	64101	REFR_T1	2	1	-1	0.5	0.1	-0.4	0.06	0.05	0	0	0	0	0	0
8/20/2024 15:05	16006	DORN_T2	0	0	0	0	0	0	-0.35	-0.35	1	1	0	1200	1200	0
8/20/2024 15:07	41902	REED_T1	0	0	0	0	0	0	1.17	1.2	0	0	0	0	0	0
8/20/2024 15:09	50506	MECH_T1	0	0	0	0	0	0	-0.05	-0.05	1	1	0	900	900	0
8/20/2024 15:09	50502	MECH_T1	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
8/20/2024 15:09	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 15:09	50501	MECH_T1	4	4	0	1.05	0.6	-0.45	0	0	0	0	0	0	0	0
8/20/2024 15:09	67804	WLAN_T1	3	2	-1	0.4	0.3	-0.1	-1.93	-1.87	0	0	0	0	0	0
8/20/2024 15:10	51604	DUKE_T2	0	0	0	0	0	0	0.5	0.45	0	0	0	0	0	0
8/20/2024 15:10	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 15:10	42802	SELI_T1	0	0	0	0	0	0	-1.73	-2.07	2	2	0	1800	1800	0
8/20/2024 15:10	67804	WLAN_T1	3	2	-1	0.4	0.3	-0.1	-0.96	-0.93	0	0	0	0	0	0
8/20/2024 15:10	59202	THOM_T1	1	4	3	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/20/2024 15:11	67201	TEHI_T1	0	11	11	0	0.22	0.22	0	0	0	0	0	0	0	0
8/20/2024 15:11	46001	BERW_T1	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
8/20/2024 15:11	46005	BERW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/20/2024 15:11	67203	TEHI_T1	1	1	0	0.1	0.1	0	2.67	2.66	2	2	0	1500	1500	0
8/20/2024 15:11	42802	SELI_T1	0	0	0	0	0	0	-1.73	-2.07	2	2	0	1800	1800	0
8/20/2024 15:12	61801	EELI_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
8/20/2024 15:12	42802	SELI_T1	0	0	0	0	0	0	-0.87	-1.03	1	1	0	900	900	0
8/20/2024 15:12	67804	WLAN_T1	3	2	-1	0.4	0.3	-0.1	-0.96	-0.93	0	0	0	0	0	0
8/20/2024 15:12	13704	SCHN_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
8/20/2024 15:12	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 15:16	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 15:16	40802	EXCH_T2	1	1	0	0.8	0.6	-0.2	0.05	0.03	0	0	0	0	0	0
8/20/2024 15:18	65503	MOJO_T2	2	14	12	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
8/20/2024 15:18	65502	MOJO_T2	1	101	100	0.1	0.11	0.01	0	0	0	0	0	0	0	0
8/20/2024 15:19	62102	ELAN_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/20/2024 15:19	65502	MOJO_T2	1	101	100	0.1	0.11	0.01	-0.71	-0.69	1	1	0	900	900	0
8/20/2024 15:19	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 15:19	65503	MOJO_T2	2	14	12	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
8/20/2024 15:19	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 15:20	65502	MOJO_T2	1	101	100	0.1	0.11	0.01	0	0	0	0	0	0	0	0
8/20/2024 15:20	65503	MOJO_T2	2	14	12	0.15	0.14	-0.01	-0.76	-0.79	1	1	0	900	900	0
8/20/2024 15:21	50502	MECH_T1	1	1	0	2.5	2.5	0	-0.27	-0.23	1	1	0	1200	1200	0
8/20/2024 15:21	50501	MECH_T1	4	4	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/20/2024 15:22	62106	ELAN_T1	0	0	0	0	0	0	0.75	0.73	0	0	0	0	0	0
8/20/2024 15:22	67502	WEWI_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
8/20/2024 15:22	65503	MOJO_T2	2	14	12	0.15	0.14	-0.01	-0.79	-0.8	1	1	0	900	900	0
8/20/2024 15:22	67503	WEWI_T2	1	1	0	8.2	8.3	0.1	0.04	0.06	0	0	0	0	0	0
8/20/2024 15:22	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 15:22	65502	MOJO_T2	1	101	100	0.1	0.11	0.01	0	0	0	0	0	0	0	0
8/20/2024 15:22	62102	ELAN_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/20/2024 15:23	62106	ELAN_T1	0	0	0	0	0	0	0.75	0.73	0	0	0	0	0	0
8/20/2024 15:23	62102	ELAN_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/20/2024 15:23	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 15:24	26401	INOR_T1	1	1	0	6.9	6.6	-0.3	1.11	1.08	0	0	0	0	0	0
8/20/2024 15:25	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	-1.14	-1.18	1	1	0	600	600	0
8/20/2024 15:25	54504	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/20/2024 15:25	23102	MOSC_T2	0	0	0	0	0	0	0.38	0.6	2	2	0	1800	1800	0
8/20/2024 15:27	16102	BING_T2	2	10	8	0.2	0.34	0.14	0.49	0.6	0	0	0	0	0	0
8/20/2024 15:28	51003	NHAR_T1	0	0	0	0	0	0	-0.41	-0.29	0	0	0	0	0	0
8/20/2024 15:28	51004	NHAR_T1	4	2	-2	1.68	3.05	1.37	0	0	0	0	0	0	0	0
8/20/2024 15:28	51002	NHAR_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
8/20/2024 15:28	67702	WERN_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
8/20/2024 15:29	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/20/2024 15:29	54504	ENOL_T2	0	1	1	0	0.3	0.3	-1.04	-1.06	1	1	0	600	600	0
8/20/2024 15:31	61504	EPET_T2	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
8/20/2024 15:31	61501	EPET_T2	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
8/20/2024 15:32	51401	LYKE_T1	0	0	0	0	0	0	0.37	0.33	0	0	0	0	0	0
8/20/2024 15:32	51402	LYKE_T1	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
8/20/2024 15:32	17804	GILB_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
8/20/2024 15:33	52004	LING_T2	4	6	2	3.35	2.6	-0.75	0.34	0.26	0	0	0	0	0	0
8/20/2024 15:33	52002	LING_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
8/20/2024 15:34	47502	NECO_T1	1	1	0	0.5	0.5	0	0.83	0.84	0	0	0	0	0	0
8/20/2024 15:35	66302	MCGO_T2	0	0	0	0	0	0	-1.4	-1.34	1	1	0	600	600	0
8/20/2024 15:36	56503	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/20/2024 15:36	56501	ROCK_T2	4	4	0	0.48	0.57	0.09	0.33	0.31	0	0	0	0	0	0
8/20/2024 15:37	56503	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/20/2024 15:37	56501	ROCK_T2	4	4	0	0.48	0.57	0.09	0	0	0	0	0	0	0	0
8/20/2024 15:37	56504	ROCK_T2	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
8/20/2024 15:38	56501	ROCK_T2	4	4	0	0.48	0.57	0.09	0.31	0.31	0	0	0	0	0	0
8/20/2024 15:38	56504	ROCK_T2	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
8/20/2024 15:38	56503	ROCK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/20/2024 15:40	55002	NEWP_T1	10	9	-1	0.78	1	0.22	0	0	0	0	0	0	0	0
8/20/2024 15:40	15702	TANN_T2	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/20/2024 15:40	55001	NEWP_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
8/20/2024 15:40	15703	TANN_T2	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
8/20/2024 15:41	67502	WEWI_T2	0	1	1	0	0.1	0.1	-0.19	-0.2	0	0	0	0	0	0
8/20/2024 15:41	67503	WEWI_T2	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
8/20/2024 15:41	55002	NEWP_T1	10	9	-1	0.78	1	0.22	-0.17	-0.17	0	0	0	0	0	0
8/20/2024 15:42	59202	THOM_T1	4	25	21	0.2	0.32	0.12	0	0	0	0	0	0	0	0
8/20/2024 15:42	42801	SELI_T1	0	0	0	0	0	0	-1.26	-1.14	1	1	0	1200	1200	0
8/20/2024 15:42	59201	THOM_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
8/20/2024 15:43	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 15:43	67503	WEWI_T2	1	1	0	8.2	8.3	0.1	0.06	0.08	0	0	0	0	0	0
8/20/2024 15:45	22101	EDEL_T2	0	0	0	0	0	0	0.67	0.63	1	1	0	1200	1200	0
8/20/2024 15:46	63302	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 15:46	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 15:46	63305	GREE_T1	0	0	0	0	0	0	-1.93	-1.91	1	1	0	900	900	0
8/20/2024 15:47	45901	AUBU_T1	0	0	0	0	0	0	1.67	1.64	0	0	0	0	0	0
8/20/2024 15:50	64101	REFR_T1	4	1	-3	0.48	0.4	-0.08	0.08	0.12	0	0	0	0	0	0
8/20/2024 15:52	62105	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 15:52	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 15:52	45802	HEGI_T2	19	28	9	0.47	0.56	0.09	0.6	0.71	1	1	0	900	900	0
8/20/2024 15:52	62101	ELAN_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 15:53	66701	STRA_T1	0	0	0	0	0	0	0.12	0.19	1	1	0	600	600	0
8/20/2024 15:54	13704	SCHN_T2	0	0	0	0	0	0	0.03	-0.06	0	0	0	0	0	0
8/20/2024 15:54	42802	SELI_T1	0	0	0	0	0	0	-0.92	-0.97	1	1	0	900	900	0
8/20/2024 15:56	67502	WEWI_T2	1	1	0	0.1	0.5	0.4	-0.2	-0.17	0	0	0	0	0	0
8/20/2024 15:56	42802	SELI_T1	0	0	0	0	0	0	-0.92	-0.97	1	1	0	900	900	0
8/20/2024 15:56	67503	WEWI_T2	1	1	0	8.3	8.2	-0.1	0	0	0	0	0	0	0	0
8/20/2024 15:57	44301	BEAV_T2	0	0	0	0	0	0	1.07	1.01	2	2	0	1200	1200	0
8/20/2024 15:57	44302	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 15:57	44802	EDAN_T2	0	0	0	0	0	0	-0.57	-0.53	0	0	0	0	0	0
8/20/2024 15:57	44801	EDAN_T2	100	136	36	0.61	0.47	-0.14	0	0	0	0	0	0	0	0
8/20/2024 15:58	42802	SELI_T1	0	0	0	0	0	0	-0.92	-0.97	1	1	0	900	900	0
8/20/2024 15:58	44302	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 15:58	44301	BEAV_T2	0	0	0	0	0	0	0.54	0.51	1	1	0	600	600	0
8/20/2024 15:59	44802	EDAN_T2	0	0	0	0	0	0	-0.57	-0.53	0	0	0	0	0	0
8/20/2024 15:59	44801	EDAN_T2	100	136	36	0.61	0.47	-0.14	0	0	0	0	0	0	0	0
8/20/2024 16:00	44802	EDAN_T2	0	0	0	0	0	0	-0.57	-0.53	0	0	0	0	0	0
8/20/2024 16:00	44801	EDAN_T2	136	81	-55	0.47	0.58	0.11	0	0	0	0	0	0	0	0
8/20/2024 16:01	65001	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 16:01	44801	EDAN_T2	136	81	-55	0.47	0.58	0.11	0	0	0	0	0	0	0	0
8/20/2024 16:01	44802	EDAN_T2	0	0	0	0	0	0	-1.13	-1.05	0	0	0	0	0	0
8/20/2024 16:01	65003	NEFF_T2	2	7	5	0.35	0.5	0.15	0	0	0	0	0	0	0	0
8/20/2024 16:01	65004	NEFF_T2	0	1	1	0	0.6	0.6	-0.38	-0.33	0	0	0	0	0	0
8/20/2024 16:07	64101	REFR_T1	1	1	0	0.4	0.4	0	0.03	0.1	0	0	0	0	0	0
8/20/2024 16:08	67804	WLAN_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
8/20/2024 16:08	67801	WLAN_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
8/20/2024 16:08	67803	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 16:11	67803	WLAN_T1	0	1	1	0	0.2	0.2	-0.69	-0.69	0	0	0	0	0	0
8/20/2024 16:11	16605	PONO_T1	0	0	0	0	0	0	-0.09	-0.08	1	1	0	1200	1200	0
8/20/2024 16:11	67804	WLAN_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
8/20/2024 16:12	67803	WLAN_T1	0	1	1	0	0.2	0.2	-0.69	-0.69	0	0	0	0	0	0
8/20/2024 16:12	59101	WALK_T2	0	0	0	0	0	0	2.18	2.08	0	0	0	0	0	0
8/20/2024 16:12	67804	WLAN_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
8/20/2024 16:13	42503	ALTA_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
8/20/2024 16:14	65206	PRIN_T4	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
8/20/2024 16:14	65207	PRIN_T4	0	2	2	0	0.1	0.1	0	0	2	2	0	1800	1800	0
8/20/2024 16:17	63602	LETO_T1	0	2	2	0	0.25	0.25	-0.38	-0.4	0	0	0	0	0	0
8/20/2024 16:17	23202	HIRU_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
8/20/2024 16:17	23201	HIRU_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
8/20/2024 16:18	64902	MILL_T2	0	0	0	0	0	0	-0.47	-0.46	1	1	0	900	900	0
8/20/2024 16:19	52002	LING_T2	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
8/20/2024 16:19	52004	LING_T2	4	4	0	3.18	3.3	0.12	0	0	0	0	0	0	0	0
8/20/2024 16:20	52002	LING_T2	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
8/20/2024 16:20	52004	LING_T2	4	4	0	3.18	3.3	0.12	0.19	0.2	0	0	0	0	0	0
8/20/2024 16:22	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 16:22	58801	COCO_T2	0	0	0	0	0	0	-1.59	-1.58	2	2	0	2400	2400	0
8/20/2024 16:22	41902	REED_T1	0	0	0	0	0	0	1.19	1.14	0	0	0	0	0	0
8/20/2024 16:25	59101	WALK_T2	0	0	0	0	0	0	2.08	1.5	0	0	0	0	0	0
8/20/2024 16:26	55101	WERT_T1	0	0	0	0	0	0	-1.39	-1.52	3	3	0	2400	2400	0
8/20/2024 16:27	59201	THOM_T1	3	3	0	0.13	0.2	0.07	0	0	0	0	0	0	0	0
8/20/2024 16:27	59202	THOM_T1	16	23	7	0.16	0.2	0.04	0	0	0	0	0	0	0	0
8/20/2024 16:29	54504	ENOL_T2	0	0	0	0	0	0	-1.05	-1.01	1	1	0	600	600	0
8/20/2024 16:29	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/20/2024 16:29	22901	HARW_T1	2	0	-2	0.2	0	-0.2	-0.29	-0.45	1	1	0	1200	1200	0
8/20/2024 16:30	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 16:30	21206	ECAR_T2	1	1	0	8	8	0	-0.17	-0.16	0	0	0	0	0	0
8/20/2024 16:30	62607	ENGL_T1	0	1	1	0	0	0	-0.89	-0.86	1	1	0	300	300	0
8/20/2024 16:31	65004	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/20/2024 16:31	65001	NEFF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/20/2024 16:31	65003	NEFF_T2	7	5	-2	0.31	0.2	-0.11	-1.68	-1.71	2	2	0	1800	1800	0
8/20/2024 16:32	10805	CHHI_T2	1	2	1	7.6	3.8	-3.8	-0.77	-0.94	1	1	0	600	600	0
8/20/2024 16:34	64305	LINC_T1	0	0	0	0	0	0	0.1	0.02	0	0	0	0	0	0
8/20/2024 16:34	44201	POIN_T1	4	0	-4	0.1	0	-0.1	-1.43	-1.58	2	2	0	2100	2100	0
8/20/2024 16:36	48901	FOSP_T2	1	0	-1	0.3	0	-0.3	-0.37	-0.34	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/20/2024 16:36	12801	MICK_T1	0	0	0	0	0	0	-0.78	-0.78	1	1	0	600	600	0
8/20/2024 16:36	12807	MICK_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/20/2024 16:37	12807	MICK_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/20/2024 16:37	12801	MICK_T1	0	0	0	0	0	0	-0.78	-0.78	1	1	0	600	600	0
8/20/2024 16:44	21705	SUBU_T1	1	1	0	6.2	5.6	-0.6	0	0	0	0	0	0	0	0
8/20/2024 16:44	21703	SUBU_T1	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
8/20/2024 16:44	11103	EGYP_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
8/20/2024 16:44	21701	SUBU_T1	1	1	0	6.5	6	-0.5	0	0	0	0	0	0	0	0
8/20/2024 16:46	53903	HALI_T2	4	2	-2	0.88	1.5	0.62	0	0	0	0	0	0	0	0
8/20/2024 16:46	53901	HALI_T2	1	1	0	1	0.9	-0.1	-3.41	-3.54	0	0	0	0	0	0
8/20/2024 16:46	53902	HALI_T2	2	1	-1	3.1	5.7	2.6	0	0	0	0	0	0	0	0
8/20/2024 16:46	55101	WERT_T1	0	0	0	0	0	0	-1.52	-1.58	3	3	0	2400	2400	0
8/20/2024 16:48	53903	HALI_T2	4	2	-2	0.88	1.5	0.62	0	0	0	0	0	0	0	0
8/20/2024 16:48	53901	HALI_T2	1	1	0	1	0.9	-0.1	-1.14	-1.18	0	0	0	0	0	0
8/20/2024 16:48	53902	HALI_T2	2	1	-1	3.1	5.7	2.6	0	0	0	0	0	0	0	0
8/20/2024 16:58	10901	COOP_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/20/2024 16:58	10903	COOP_T2	0	0	0	0	0	0	-0.16	0.01	1	1	0	600	600	0
8/20/2024 16:59	40703	FFLD_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/20/2024 16:59	40702	FFLD_T1	3	3	0	0.2	0.2	0	-0.79	-0.56	1	1	0	1200	1200	0
8/20/2024 16:59	40701	FFLD_T1	14	21	7	0.22	0.19	-0.03	0	0	0	0	0	0	0	0
8/20/2024 17:01	65003	NEFF_T2	5	6	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
8/20/2024 17:01	65001	NEFF_T2	0	0	0	0	0	0	-0.61	-0.56	1	1	0	1200	1200	0
8/20/2024 17:02	64204	KINZ_T1	3	3	0	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
8/20/2024 17:02	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 17:02	64202	KINZ_T1	1	3	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0
8/20/2024 17:02	64203	KINZ_T1	0	0	0	0	0	0	0.64	0.16	1	1	0	600	600	0
8/20/2024 17:05	65001	NEFF_T2	0	0	0	0	0	0	-0.61	-0.56	1	1	0	1200	1200	0
8/20/2024 17:05	65003	NEFF_T2	5	6	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
8/20/2024 17:05	24202	PROV_T4	1	0	-1	2.6	0	-2.6	-0.44	-0.4	1	1	0	1200	1200	0
8/20/2024 17:08	59202	THOM_T1	13	53	40	0.15	0.26	0.11	0	0	0	0	0	0	0	0
8/20/2024 17:08	59201	THOM_T1	3	8	5	0.13	0.26	0.13	0	0	0	0	0	0	0	0
8/20/2024 17:18	15603	NSTR_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
8/20/2024 17:18	15601	NSTR_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
8/20/2024 17:21	59002	MIFF_T1	5	5	0	0.22	0.52	0.3	0	0	0	0	0	0	0	0
8/20/2024 17:21	59003	MIFF_T1	0	1	1	0	0.1	0.1	0.7	0.56	0	0	0	0	0	0
8/20/2024 17:24	64904	MILL_T1	1	1	0	0.1	0.1	0	-0.12	-0.15	0	0	0	0	0	0
8/20/2024 17:24	64901	MILL_T1	4	5	1	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
8/20/2024 17:27	59202	THOM_T1	52	16	-36	0.26	0.19	-0.07	0	0	0	0	0	0	0	0
8/20/2024 17:27	10702	CATA_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/20/2024 17:27	59201	THOM_T1	8	5	-3	0.26	0.16	-0.1	0	0	0	0	0	0	0	0
8/20/2024 17:27	10705	CATA_T2	1	0	-1	0.5	0	-0.5	-0.66	-0.69	1	1	0	900	900	0
8/20/2024 17:28	40802	EXCH_T2	0	0	0	0	0	0	-0.21	-0.16	0	0	0	0	0	0
8/20/2024 17:29	40802	EXCH_T2	0	0	0	0	0	0	-0.21	-0.16	0	0	0	0	0	0
8/20/2024 17:30	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/20/2024 17:30	67805	WLAN_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/20/2024 17:30	67802	WLAN_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
8/20/2024 17:30	63305	GREE_T1	7	6	-1	0.27	0.2	-0.07	-1.87	-1.91	1	1	0	900	900	0
8/20/2024 17:32	63401	HONY_T1	0	0	0	0	0	0	0.06	0.05	1	1	0	600	600	0
8/20/2024 17:41	46203	DANV_T2	1	1	0	6.8	6.7	-0.1	-0.67	-0.68	0	0	0	0	0	0
8/20/2024 17:43	45902	AUBU_T1	0	1	1	0	0.2	0.2	-0.93	-0.97	1	1	0	600	600	0
8/20/2024 17:44	44302	BEAV_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
8/20/2024 17:48	63401	HONY_T1	0	0	0	0	0	0	0.05	0.06	1	1	0	600	600	0
8/20/2024 17:48	62104	ELAN_T1	0	0	0	0	0	0	0.38	0.43	2	2	0	1500	1500	0
8/20/2024 17:50	62104	ELAN_T1	0	0	0	0	0	0	0.38	0.43	2	2	0	1500	1500	0
8/20/2024 17:50	51004	NHAR_T1	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
8/20/2024 17:50	51002	NHAR_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
8/20/2024 17:52	44201	PONI_T1	0	1	1	0	0.1	0.1	-1.66	-1.56	2	2	0	2100	2100	0
8/20/2024 17:54	60701	BREC_T1	0	0	0	0	0	0	-0.14	-0.14	1	1	0	600	600	0
8/20/2024 17:55	60701	BREC_T1	0	0	0	0	0	0	-0.14	-0.14	1	1	0	600	600	0
8/20/2024 17:56	60701	BREC_T1	0	0	0	0	0	0	-0.14	-0.14	1	1	0	600	600	0
8/20/2024 17:57	60701	BREC_T1	0	0	0	0	0	0	-0.14	-0.14	1	1	0	600	600	0
8/20/2024 17:58	60701	BREC_T1	0	0	0	0	0	0	-0.29	-0.29	2	2	0	1200	1200	0
8/20/2024 18:02	12002	HATF_T1	0	0	0	0	0	0	-1.19	-1.16	1	1	0	1200	1200	0
8/20/2024 18:03	64503	LAVI_T1	0	0	0	0	0	0	-2.69	-2.93	2	2	0	2400	2400	0
8/20/2024 18:03	64501	LAVI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 18:05	46101	MACJ_T2	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
8/20/2024 18:05	64501	LAVI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 18:05	64503	LAVI_T1	0	0	0	0	0	0	-1.35	-1.47	1	1	0	1200	1200	0
8/20/2024 18:06	12807	MICK_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/20/2024 18:06	12802	MICK_T1	0	0	0	0	0	0	-1.07	-1.06	0	0	0	0	0	0
8/20/2024 18:08	47401	PENS_T1	0	0	0	0	0	0	1.27	1.19	0	0	0	0	0	0
8/20/2024 18:09	47401	PENS_T1	0	0	0	0	0	0	1.27	1.19	0	0	0	0	0	0
8/20/2024 18:14	21701	SUBU_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
8/20/2024 18:14	21704	SUBU_T1	0	0	0	0	0	0	-2.43	-2.4	2	2	0	2400	2400	0
8/20/2024 18:14	21705	SUBU_T1	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
8/20/2024 18:18	50107	HARR_T3	1	1	0	6.9	6.3	-0.6	0.53	0.56	0	0	0	0	0	0
8/20/2024 18:18	50103	HARR_T3	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
8/20/2024 18:18	50105	HARR_T3	6	6	0	5.85	5.68	-0.17	0	0	0	0	0	0	0	0
8/20/2024 18:27	10705	CATA_T2	0	0	0	0	0	0	-1.39	-1.43	2	2	0	1800	1800	0
8/20/2024 18:27	10702	CATA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/20/2024 18:28	10705	CATA_T2	0	0	0	0	0	0	-0.69	-0.71	1	1	0	900	900	0
8/20/2024 18:28	10702	CATA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/20/2024 18:29	52001	LING_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 18:31	14202	EALL_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 18:31	14204	EALL_T2	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
8/20/2024 18:32	22701	MINO_T1	0	0	0	0	0	0	-0.8	-0.89	1	1	0	600	600	0
8/20/2024 18:35	62102	ELAN_T1	0	0	0	0	0	0	1.11	1.04	0	0	0	0	0	0
8/20/2024 18:38	62102	ELAN_T1	0	0	0	0	0	0	2.08	1.97	0	0	0	0	0	0
8/20/2024 18:39	14202	EALL_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 18:39	14204	EALL_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
8/20/2024 18:41	67502	WEWI_T2	0	0	0	0	0	0	-0.16	-0.25	0	0	0	0	0	0
8/20/2024 18:41	43304	WATS_T2	0	0	0	0	0	0	-0.51	-0.57	0	0	0	0	0	0
8/20/2024 18:41	67503	WEWI_T2	1	1	0	7	7.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 18:41	43302	WATS_T2	4	4	0	0.68	0.63	-0.05	0	0	0	0	0	0	0	0
8/20/2024 18:48	12006	HATF_T1	0	0	0	0	0	0	-0.51	0.6	2	1	-1	2400	1200	-1200
8/20/2024 18:49	63201	MGTN_T2	0	0	0	0	0	0	0.41	0.39	1	1	0	600	600	0
8/20/2024 19:08	66303	MCGO_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/20/2024 19:08	66302	MCGO_T2	0	0	0	0	0	0	-1.51	-1.5	1	1	0	600	600	0
8/20/2024 19:33	45602	WOOL_T1	2	1	-1	0.2	0.3	0.1	0.67	0.69	0	0	0	0	0	0
8/20/2024 20:12	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 20:12	66505	SMAN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 20:14	59202	THOM_T1	29	22	-7	0.47	0.22	-0.25	0	0	0	0	0	0	0	0
8/20/2024 20:14	59201	THOM_T1	10	9	-1	0.27	0.21	-0.06	0	0	0	0	0	0	0	0
8/20/2024 20:18	43102	SMIL_T2	8	9	1	0.79	0.89	0.1	0	0	0	0	0	0	0	0
8/20/2024 20:18	43108	SMIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/20/2024 20:18	43103	SMIL_T2	12	21	9	0.4	0.43	0.03	0	0	0	0	0	0	0	0
8/20/2024 20:18	43106	SMIL_T2	0	0	0	0	0	0	-0.2	-0.28	1	1	0	1200	1200	0
8/20/2024 20:18	43105	SMIL_T2	13	15	2	0.19	0.29	0.1	0	0	0	0	0	0	0	0
8/20/2024 20:29	23901	EFMO_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
8/20/2024 20:30	23901	EFMO_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
8/20/2024 20:33	23901	EFMO_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
8/20/2024 20:38	22701	MINO_T1	0	0	0	0	0	0	-0.98	-0.99	1	1	0	600	600	0
8/20/2024 20:44	60803	BUCK_T1	1	8	7	0.1	0.15	0.05	0	0	0	0	0	0	0	0
8/20/2024 20:44	60801	BUCK_T1	0	11	11	0	0.15	0.15	-0.18	-0.19	0	0	0	0	0	0
8/20/2024 20:51	15203	SFAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 20:57	16103	BING_T2	0	0	0	0	0	0	-1.45	-1.45	1	1	0	900	900	0
8/20/2024 20:57	16102	BING_T2	15	15	0	0.33	0.37	0.04	0	0	0	0	0	0	0	0
8/20/2024 21:04	14801	TREI_T2	158	9	-149	0.41	0.2	-0.21	0	0	0	0	0	0	0	0
8/20/2024 21:04	14802	TREI_T2	14	0	-14	0.29	0	-0.29	0.52	0.46	0	0	0	0	0	0
8/20/2024 21:09	66303	MCGO_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/20/2024 21:09	66302	MCGO_T2	0	0	0	0	0	0	-1.46	-1.45	1	1	0	600	600	0
8/20/2024 21:26	54602	SUMM_T2	0	7	7	0	0.16	0.16	0	0	0	0	0	0	0	0
8/20/2024 21:26	54603	SUMM_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 21:26	54601	SUMM_T2	3	12	9	0.23	0.45	0.22	-0.74	-0.83	1	1	0	1200	1200	0
8/20/2024 21:29	14702	TREX_T2	0	0	0	0	0	0	1.03	1.03	0	0	0	0	0	0
8/20/2024 21:39	14203	EALL_T1	0	0	0	0	0	0	-0.31	-0.26	1	1	0	1200	1200	0
8/20/2024 21:43	51702	OBER_T1	2	2	0	3.1	3	-0.1	-0.07	-0.06	0	0	0	0	0	0
8/20/2024 21:43	50102	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:43	50107	HARR_T3	1	1	0	5.8	5.6	-0.2	0.53	0.48	0	0	0	0	0	0
8/20/2024 21:43	50202	HARR_T3	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:43	50105	HARR_T3	6	6	0	5.48	5.3	-0.18	0	0	0	0	0	0	0	0
8/20/2024 21:43	50201	HARR_T3	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/20/2024 21:43	65502	MOJO_T2	152	301	149	0.13	0.3	0.17	0	0	0	0	0	0	0	0
8/20/2024 21:43	50103	HARR_T3	2	2	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/20/2024 21:43	65503	MOJO_T2	4	190	186	0.1	0.17	0.07	-0.23	-0.28	0	0	0	0	0	0
8/20/2024 21:45	63501	HEID_TBK1-2	56	56	0	1.39	1.26	-0.13	0.45	0.45	0	0	0	0	0	0
8/20/2024 21:45	51401	LYKE_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
8/20/2024 21:46	63501	HEID_TBK1-2	56	56	0	1.39	1.26	-0.13	0.45	0.45	0	0	0	0	0	0
8/20/2024 21:46	63602	LETO_T1	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
8/20/2024 21:47	65402	MARI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 21:47	43302	WATS_T2	2	4	2	0.3	0.38	0.08	0	0	0	0	0	0	0	0
8/20/2024 21:47	65401	MARI_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
8/20/2024 21:47	43301	WATS_T2	0	1	1	0	0.1	0.1	0.34	0.33	0	0	0	0	0	0
8/20/2024 21:48	23201	HIRU_T2	3	76	73	0.13	0.18	0.05	0	0	0	0	0	0	0	0
8/20/2024 21:48	17002	RIRO_T2	0	11	11	0	0.1	0.1	0.35	0.34	0	0	0	0	0	0
8/20/2024 21:48	26704	HEML_T2	0	25	25	0	0.12	0.12	-0.77	-0.76	1	1	0	1200	1200	0
8/20/2024 21:48	62106	ELAN_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 21:48	62104	ELAN_T1	0	0	0	0	0	0	0.61	0.57	1	1	0	1200	1200	0
8/20/2024 21:48	23202	HIRU_T2	0	15	15	0	0.17	0.17	0.11	0.09	0	0	0	0	0	0
8/20/2024 21:48	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 21:48	58801	COCO_T2	0	1	1	0	0	0	-1.74	-1.76	2	2	0	2400	2400	0
8/20/2024 21:48	64902	MILL_T2	0	0	0	0	0	0	-0.57	-0.55	1	1	0	900	900	0
8/20/2024 21:48	23203	HIRU_T2	0	55	55	0	0.13	0.13	0	0	0	0	0	0	0	0
8/20/2024 21:48	62101	ELAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/20/2024 21:48	62105	ELAN_T1	93	46	-47	0.11	0.11	0	0	0	0	0	0	0	0	0
8/20/2024 21:49	43301	WATS_T2	0	1	1	0	0.1	0.1	0.34	0.33	0	0	0	0	0	0
8/20/2024 21:49	62604	ENGL_T1	0	0	0	0	0	0	-0.75	-0.83	1	1	0	600	600	0
8/20/2024 21:49	64904	MILL_T1	183	247	64	0.21	0.28	0.07	-0.34	-0.36	0	0	0	0	0	0
8/20/2024 21:49	43304	WATS_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
8/20/2024 21:49	64901	MILL_T1	76	83	7	0.23	0.3	0.07	0	0	0	0	0	0	0	0
8/20/2024 21:49	65001	NEFF_T2	163	22	-141	0.22	0.11	-0.11	-0.84	-0.9	1	1	0	1200	1200	0
8/20/2024 21:49	16006	DORN_T2	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
8/20/2024 21:49	43302	WATS_T2	2	4	2	0.3	0.38	0.08	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/20/2024 21:49	13303	ORVI_T1	0	0	0	0	0	0	0.95	0.88	0	0	0	0	0	0
8/20/2024 21:49	63501	HEID_T8K1-2	56	56	0	1.39	1.26	-0.13	0.45	0.45	0	0	0	0	0	0
8/20/2024 21:49	65003	NEFF_T2	40	0	-40	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/20/2024 21:50	64901	MILL_T1	76	83	7	0.23	0.3	0.07	0	0	0	0	0	0	0	0
8/20/2024 21:50	67804	WLAN_T1	0	2	2	0	0.1	0.1	-1.05	-1.06	0	0	0	0	0	0
8/20/2024 21:50	67805	WLAN_T1	411	473	62	0.25	0.27	0.02	0	0	0	0	0	0	0	0
8/20/2024 21:50	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
8/20/2024 21:50	64904	MILL_T1	183	247	64	0.21	0.28	0.07	-0.34	-0.36	0	0	0	0	0	0
8/20/2024 21:50	10801	CHHI_T1	0	0	0	0	0	0	-0.71	-0.75	1	1	0	900	900	0
8/20/2024 21:50	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 21:50	66303	MCGO_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/20/2024 21:50	67802	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:50	63804	HEMP_T1	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
8/20/2024 21:50	63802	HEMP_T1	0	0	0	0	0	0	0.19	0.16	0	0	0	0	0	0
8/20/2024 21:50	26401	INOR_T1	1	1	0	9.2	10	0.8	0.43	0.43	0	0	0	0	0	0
8/20/2024 21:50	65001	NEFF_T2	163	22	-141	0.22	0.11	-0.11	-0.84	-0.9	1	1	0	1200	1200	0
8/20/2024 21:50	66301	MCGO_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
8/20/2024 21:50	65003	NEFF_T2	40	0	-40	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/20/2024 21:50	14801	TREI_T2	5	6	1	0.2	0.43	0.23	-0.49	-0.52	0	0	0	0	0	0
8/20/2024 21:51	60801	BUCK_T1	42	61	19	0.24	0.36	0.12	0	0	0	0	0	0	0	0
8/20/2024 21:51	67805	WLAN_T1	411	473	62	0.25	0.27	0.02	0	0	0	0	0	0	0	0
8/20/2024 21:51	14801	TREI_T2	5	6	1	0.2	0.43	0.23	-0.52	-0.58	0	0	0	0	0	0
8/20/2024 21:51	29401	BELT_T1	21	0	-21	0.16	0	-0.16	0	0	1	1	0	900	900	0
8/20/2024 21:51	15601	NSTR_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
8/20/2024 21:51	63802	HEMP_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
8/20/2024 21:51	11901	ETEX_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
8/20/2024 21:51	15603	NSTR_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
8/20/2024 21:51	44703	MUNC_T2	2	2	0	1.4	1.45	0.05	0.65	0.64	0	0	0	0	0	0
8/20/2024 21:51	22602	KIMB_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
8/20/2024 21:51	44701	MUNC_T2	139	136	-3	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
8/20/2024 21:51	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
8/20/2024 21:51	67605	WARW_T1	23	35	12	0.58	0.61	0.03	0	0	0	0	0	0	0	0
8/20/2024 21:51	67603	WARW_T1	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
8/20/2024 21:51	13704	SOHN_T2	0	1	1	0	0.1	0.1	-0.37	-0.39	0	0	0	0	0	0
8/20/2024 21:51	63804	HEMP_T1	1	1	0	5.2	5.4	0.2	-0.44	0.84	0	0	0	0	0	0
8/20/2024 21:51	44702	MUNC_T2	100	71	-29	0.46	0.28	-0.18	0	0	0	0	0	0	0	0
8/20/2024 21:51	67804	WLAN_T1	0	2	2	0	0.1	0.1	-1.06	-1.06	0	0	0	0	0	0
8/20/2024 21:51	67802	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:51	29402	BELT_T1	1	1	0	8.8	8.9	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:51	60803	BUCK_T1	11	18	7	0.33	0.33	0	-0.5	-0.5	1	1	0	600	600	0
8/20/2024 21:52	67802	WLAN_T1	0	1	1	0	0.1	0.1	-0.28	-0.28	0	0	0	0	0	0
8/20/2024 21:52	23102	MOSC_T2	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
8/20/2024 21:52	62106	ELAN_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 21:52	62105	ELAN_T1	93	46	-47	0.11	0.11	0	0	0	0	0	0	0	0	0
8/20/2024 21:52	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.93	-1.07	0	0	0	0	0	0
8/20/2024 21:52	61701	ELIZ_T1	1	1	0	3.5	4.2	0.7	1.22	1.19	0	0	0	0	0	0
8/20/2024 21:52	51304	WIND_T2	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
8/20/2024 21:52	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
8/20/2024 21:52	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 21:52	16102	BING_T2	19	17	-2	0.57	0.48	-0.09	0	0	0	0	0	0	0	0
8/20/2024 21:52	67804	WLAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:52	17802	GILB_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
8/20/2024 21:52	67805	WLAN_T1	411	473	62	0.25	0.27	0.02	0	0	0	0	0	0	0	0
8/20/2024 21:52	66505	SMAN_T2	3	3	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
8/20/2024 21:52	62102	ELAN_T1	0	0	0	0	0	0	0.82	0.72	0	0	0	0	0	0
8/20/2024 21:52	62101	ELAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/20/2024 21:52	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 21:52	20401	ASHF_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
8/20/2024 21:52	16101	BING_T2	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
8/20/2024 21:52	16402	MOPO_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
8/20/2024 21:53	67805	WLAN_T1	411	473	62	0.25	0.27	0.02	-1.47	-1.43	0	0	0	0	0	0
8/20/2024 21:53	65001	NEFF_T2	163	22	-141	0.22	0.11	-0.11	0	0	0	0	0	0	0	0
8/20/2024 21:53	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:53	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 21:53	14801	TREI_T2	5	6	1	0.2	0.43	0.23	0	0	0	0	0	0	0	0
8/20/2024 21:53	64902	MILL_T2	0	0	0	0	0	0	-0.55	-0.58	1	1	0	900	900	0
8/20/2024 21:53	11103	EGYP_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
8/20/2024 21:53	43304	WATS_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
8/20/2024 21:53	54205	PENN_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:53	54201	PENN_T1	80	186	106	0.36	0.36	0	0	0	0	0	0	0	0	0
8/20/2024 21:53	65003	NEFF_T2	40	0	-40	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/20/2024 21:53	46203	DANV_T2	1	1	0	7.1	6.7	-0.4	0.5	0.51	0	0	0	0	0	0
8/20/2024 21:53	67804	WLAN_T1	0	2	2	0	0.1	0.1	-1.06	-1.06	0	0	0	0	0	0
8/20/2024 21:53	67803	WLAN_T1	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
8/20/2024 21:53	67505	WEWI_T1	0	0	0	0	0	0	-0.15	-0.15	1	1	0	900	900	0
8/20/2024 21:53	67802	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:53	67503	WEWI_T2	1	1	0	8.8	8.5	-0.3	-0.09	-0.21	0	0	0	0	0	0
8/20/2024 21:53	65004	NEFF_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
8/20/2024 21:53	43302	WATS_T2	2	4	2	0.3	0.38	0.08	0	0	0	0	0	0	0	0
8/20/2024 21:53	54203	PENN_T1	18	31	13	1.27	0.96	-0.31	0.73	0.74	0	0	0	0	0	0
8/20/2024 21:53	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 21:53	14802	TREI_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
8/20/2024 21:54	62105	ELAN_T1	93	46	-47	0.11	0.11	0	0	0	0	0	0	0	0	0
8/20/2024 21:54	60101	COCA_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
8/20/2024 21:54	64902	MILL_T2	0	0	0	0	0	0	-0.55	-0.58	1	1	0	900	900	0
8/20/2024 21:54	46302	ROHR_T1	5	6	1	2.12	1.9	-0.22	0.13	0.13	0	0	0	0	0	0
8/20/2024 21:54	13903	SEID_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/20/2024 21:54	65003	NEFF_T2	40	0	-40	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/20/2024 21:54	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
8/20/2024 21:54	62106	ELAN_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 21:54	46301	ROHR_T1	52	163	111	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
8/20/2024 21:54	51604	DUKE_T2	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
8/20/2024 21:54	45902	AUBU_T1	2	0	-2	0.1	0	-0.1	-1.1	-1.02	0	0	0	0	0	0
8/20/2024 21:54	45502	DERR_T2	0	0	0	0	0	0	-0.63	-0.6	0	0	0	0	0	0
8/20/2024 21:54	49804	UNIV_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/20/2024 21:54	60701	BREC_T1	0	3	3	0	0.1	0.1	-1.05	-1.06	2	2	0	1200	1200	0
8/20/2024 21:54	40101	HUNT_T2	0	0	0	0	0	0	-0.4	-0.43	0	0	0	0	0	0
8/20/2024 21:54	14201	EALL_T1	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
8/20/2024 21:54	44802	EDAN_T2	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
8/20/2024 21:54	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
8/20/2024 21:54	13905	SEID_T1	0	0	0	0	0	0	-0.96	-0.98	1	1	0	1200	1200	0
8/20/2024 21:54	65001	NEFF_T2	163	22	-141	0.22	0.11	-0.11	-0.9	-1.02	1	1	0	1200	1200	0
8/20/2024 21:54	49803	UNIV_T1	1	1	0	6.3	5.8	-0.5	-1	-1.08	0	0	0	0	0	0
8/20/2024 21:54	43402	BENT_T1	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
8/20/2024 21:54	16402	MOPO_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
8/20/2024 21:54	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 21:54	62101	ELAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/20/2024 21:54	44801	EDAN_T2	225	230	5	0.54	0.58	0.04	0	0	0	0	0	0	0	0
8/20/2024 21:54	41702	LOGA_T2	54	47	-7	0.19	0.2	0.01	0	0	0	0	0	0	0	0
8/20/2024 21:54	12807	MICK_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/20/2024 21:54	11507	FREE_T2	1	1	0	0.5	0.4	-0.1	1.09	1.06	0	0	0	0	0	0
8/20/2024 21:54	60305	TWVA_T2	11	0	-11	0.14	0	-0.14	0	0	0	0	0	0	0	0
8/20/2024 21:54	62102	ELAN_T1	0	0	0	0	0	0	1.64	1.44	0	0	0	0	0	0
8/20/2024 21:54	23201	HIRU_T2	3	76	73	0.13	0.18	0.05	0	0	0	0	0	0	0	0
8/20/2024 21:54	45501	DERR_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/20/2024 21:54	23202	HIRU_T2	0	15	15	0	0.17	0.17	0	0	0	0	0	0	0	0
8/20/2024 21:54	16006	DORN_T2	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
8/20/2024 21:54	23001	SAUO_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
8/20/2024 21:54	42201	SHEN_T2	0	0	0	0	0	0	0.1	0.1	1	1	0	600	600	0
8/20/2024 21:54	60301	TWVA_T2	1	0	-1	0.2	0	-0.2	-1.43	-1.45	1	1	0	1200	1200	0
8/20/2024 21:54	12802	MICK_T1	0	0	0	0	0	0	-1.26	-1.28	0	0	0	0	0	0
8/20/2024 21:54	23203	HIRU_T2	0	55	55	0	0.13	0.13	0.12	0.12	0	0	0	0	0	0
8/20/2024 21:55	67203	TEHI_T1	0	0	0	0	0	0	2.18	2.2	2	2	0	1500	1500	0
8/20/2024 21:55	53902	HALI_T2	1	1	0	5.1	5.9	0.8	0	0	0	0	0	0	0	0
8/20/2024 21:55	54201	PENN_T1	80	186	106	0.36	0.36	0	-0.92	-0.98	0	0	0	0	0	0
8/20/2024 21:55	20601	GRWO_T2	1	0	-1	0.2	0	-0.2	1.01	0.99	0	0	0	0	0	0
8/20/2024 21:55	62101	ELAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/20/2024 21:55	60501	NMAN_T2	1	29	28	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:55	65603	QVIL_T2	10	46	36	0.12	0.14	0.02	0.03	0.01	0	0	0	0	0	0
8/20/2024 21:55	66303	MCGO_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/20/2024 21:55	61504	EPET_T2	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
8/20/2024 21:55	42802	SELI_T1	1	0	-1	0.9	0	-0.9	-0.3	-0.38	0	0	0	0	0	0
8/20/2024 21:55	45902	AUBU_T1	2	0	-2	0.1	0	-0.1	-1.1	-1.02	0	0	0	0	0	0
8/20/2024 21:55	64202	KINZ_T1	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
8/20/2024 21:55	57201	ROSS_T1	0	0	0	0	0	0	-0.25	-0.3	0	0	0	0	0	0
8/20/2024 21:55	53902	HALI_T2	2	4	2	1.2	0.48	-0.72	-1.28	-1.27	0	0	0	0	0	0
8/20/2024 21:55	67804	WLAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:55	65604	QVIL_T2	3	3	0	0.13	0.23	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:55	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 21:55	64503	LAVI_T1	0	0	0	0	0	0	-0.55	-0.6	1	1	0	1200	1200	0
8/20/2024 21:55	67502	WEWI_T2	0	0	0	0	0	0	-0.38	-0.43	0	0	0	0	0	0
8/20/2024 21:55	10705	CATA_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
8/20/2024 21:55	62607	ENGL_T1	0	0	0	0	0	0	-0.98	-0.99	1	1	0	300	300	0
8/20/2024 21:55	25404	LAHA_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:55	51603	DUKE_T1	0	0	0	0	0	0	-0.61	-0.69	0	0	0	0	0	0
8/20/2024 21:55	14802	TREI_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
8/20/2024 21:55	54205	PENN_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:55	65206	PRIN_T4	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 21:55	60502	NMAN_T2	0	0	0	0	0	0	-0.39	-0.66	0	0	0	0	0	0
8/20/2024 21:55	43301	WATS_T2	0	1	1	0	0.1	0.1	0.33	0.32	0	0	0	0	0	0
8/20/2024 21:55	62106	ELAN_T1	1	2	1	0.1	0.1	0	-0.02	0.01	0	0	0	0	0	0
8/20/2024 21:55	65602	QVIL_T2	21	25	4	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
8/20/2024 21:55	14801	TREI_T2	5	6	1	0.2	0.43	0.23	0	0	0	0	0	0	0	0
8/20/2024 21:55	61501	EPET_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
8/20/2024 21:55	44201	POIN_T1	11	18	7	0.14	0.12	-0.02	-3.48	-3.55	4	4	0	4200	4200	0
8/20/2024 21:55	42002	MNVL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
8/20/2024 21:55	21204	ECAR_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:55	63403	HONY_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
8/20/2024 21:55	64204	KINZ_T1	1	1	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
8/20/2024 21:55	42903	MIDD_T2	2	2	0	0.7	0.95	0.25	-1.22	-1.32	1	1	0	1200	1200	0
8/20/2024 21:55	63404	HONY_T1	137	101	-36	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
8/20/2024 21:55	43302	WATS_T2	2	4	2	0.3	0.38	0.08	0	0	0	0	0	0	0	0
8/20/2024 21:55	11104	EGYP_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/20/2024 21:55	21206	ECAR_T2	1	1	0	8.3	8.1	-0.2	-0.08	-0.01	0	0	0	0	0	0
8/20/2024 21:55	64201	KINZ_T1	0	1	1	0	1.1	1.1	-0.67	-0.64	3	3	0	1500	1500	0
8/20/2024 21:55	67803	WLAN_T1	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
8/20/2024 21:55	55101	WERT_T1	0	0	0	0	0	0	-1.47	-0.85	2	1	-1	1500	900	-600
8/20/2024 21:55	60101	COGA_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
8/20/2024 21:55	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
8/20/2024 21:55	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 21:55	66703	STRA_T1	93	106	13	0.29	0.29	0	-0.28	-0.29	0	0	0	0	0	0
8/20/2024 21:55	42701	AUGU_T1	1	1	0	0.8	0.8	0	0	0	2	2	0	1800	1800	0
8/20/2024 21:55	62105	ELAN_T1	93	46	-47	0.11	0.11	0	0	0	0	0	0	0	0	0
8/20/2024 21:55	65207	PRIN_T4	0	3	3	0	0.1	0.1	0	0	1	1	0	1200	1200	0
8/20/2024 21:55	61803	EELI_T2	0	0	0	0	0	0	0.13	0.13	1	1	0	600	600	0
8/20/2024 21:55	25402	LAHA_T2	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
8/20/2024 21:55	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 21:55	23201	HIRU_T2	3	76	73	0.13	0.18	0.05	0	0	0	0	0	0	0	0
8/20/2024 21:55	54203	PENN_T1	18	31	13	1.27	0.96	-0.31	0	0	0	0	0	0	0	0
8/20/2024 21:55	63402	HONY_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
8/20/2024 21:55	63401	HONY_T1	11	12	1	0.22	0.24	0.02	-0.11	-0.29	1	1	0	600	600	0
8/20/2024 21:55	23202	HIRU_T2	0	15	15	0	0.17	0.17	0	0	0	0	0	0	0	0
8/20/2024 21:55	66302	MCGO_T2	0	0	0	0	0	0	-0.91	-0.94	0	0	0	0	0	0
8/20/2024 21:55	67802	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:55	23203	HIRU_T2	0	55	55	0	0.13	0.13	0.06	0.06	0	0	0	0	0	0
8/20/2024 21:55	67503	WEWI_T2	1	1	0	8.8	8.5	-0.3	0	0	0	0	0	0	0	0
8/20/2024 21:55	61304	EARL_T1	0	0	0	0	0	0	-0.96	-0.92	1	1	0	600	600	0
8/20/2024 21:55	10504	CRAC_T1	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
8/20/2024 21:55	55508	HERS_T2	2	2	0	0.9	1.5	0.6	-2.56	-2.49	1	1	0	1200	1200	0
8/20/2024 21:55	53903	HALI_T2	2	2	0	1.45	1.6	0.15	0	0	0	0	0	0	0	0
8/20/2024 21:55	10703	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 21:55	42001	MNVL_T2	261	281	20	0.87	1.17	0.3	-0.29	-0.32	0	0	0	0	0	0
8/20/2024 21:55	62104	ELAN_T1	0	0	0	0	0	0	0.57	0.07	1	1	0	1200	1200	0
8/20/2024 21:55	46001	BERW_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
8/20/2024 21:55	67805	WLAN_T1	411	473	62	0.25	0.27	0.02	0	0	0	0	0	0	0	0
8/20/2024 21:55	65601	QVIL_T2	94	118	24	0.2	0.26	0.06	0	0	0	0	0	0	0	0
8/20/2024 21:56	45902	AUBU_T1	2	0	-2	0.1	0	-0.1	-0.55	-0.51	0	0	0	0	0	0
8/20/2024 21:56	53903	HALI_T2	2	2	0	1.45	1.6	0.15	0	0	0	0	0	0	0	0
8/20/2024 21:56	52002	LING_T2	0	1	1	0	0.4	0.4	0.01	-0.04	0	0	0	0	0	0
8/20/2024 21:56	12801	MICK_T1	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
8/20/2024 21:56	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.47	-0.53	0	0	0	0	0	0
8/20/2024 21:56	54505	ENOL_T2	1	1	0	1.4	1.6	0.2	-1.25	-0.56	1	0	-1	600	0	-600
8/20/2024 21:56	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 21:56	44801	EDAN_T2	225	230	5	0.54	0.58	0.04	0	0	0	0	0	0	0	0
8/20/2024 21:56	12807	MICK_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/20/2024 21:56	52004	LING_T2	2	2	0	5.75	6.15	0.4	0.13	0.14	0	0	0	0	0	0
8/20/2024 21:56	43304	WATS_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
8/20/2024 21:56	45901	AUBU_T1	0	0	0	0	0	0	1.54	1.52	0	0	0	0	0	0
8/20/2024 21:56	60801	BUCK_T1	42	61	19	0.24	0.36	0.12	-0.2	-0.23	0	0	0	0	0	0
8/20/2024 21:56	53901	HALI_T2	2	4	2	1.2	0.48	-0.72	-1.28	-1.27	0	0	0	0	0	0
8/20/2024 21:56	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
8/20/2024 21:56	12802	MICK_T1	0	0	0	0	0	0	-1.26	-1.28	0	0	0	0	0	0
8/20/2024 21:56	59201	THOM_T1	25	16	-9	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
8/20/2024 21:56	66505	SMAN_T2	3	3	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
8/20/2024 21:56	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:56	46302	ROHR_T1	5	6	1	2.12	1.9	-0.22	0	0	0	0	0	0	0	0
8/20/2024 21:56	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
8/20/2024 21:56	48302	ORWI_T2	2	2	0	1.05	1.2	0.15	0	0	0	0	0	0	0	0
8/20/2024 21:56	43302	WATS_T2	2	4	2	0.3	0.38	0.08	0	0	0	0	0	0	0	0
8/20/2024 21:56	57006	WHIH_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/20/2024 21:56	46802	HEPB_T1	1	1	0	0.8	1	0.2	-0.25	-0.3	0	0	0	0	0	0
8/20/2024 21:56	62105	ELAN_T1	93	46	-47	0.11	0.11	0	0	0	0	0	0	0	0	0
8/20/2024 21:56	62106	ELAN_T1	1	2	1	0.1	0.1	0	-0.02	0.01	0	0	0	0	0	0
8/20/2024 21:56	59202	THOM_T1	371	257	-114	0.34	0.25	-0.09	0	0	0	0	0	0	0	0
8/20/2024 21:56	15604	NSTR_T1	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
8/20/2024 21:56	44802	EDAN_T2	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
8/20/2024 21:56	53902	HALI_T2	1	1	0	5.1	5.9	0.8	0	0	0	0	0	0	0	0
8/20/2024 21:56	54502	ENOL_T2	9	103	94	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
8/20/2024 21:56	60701	BREC_T1	0	3	3	0	0.1	0.1	-0.53	-0.53	1	1	0	600	600	0
8/20/2024 21:56	54501	ENOL_T2	4	4	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
8/20/2024 21:56	63501	HEID_TBK1-2	56	56	0	1.39	1.26	-0.13	0.45	0.43	0	0	0	0	0	0
8/20/2024 21:56	13503	MCMI_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
8/20/2024 21:56	45501	DERR_T2	2	0	-2	0.2	0	-0.2	0.31	-0.22	4	4	0	3600	3600	0
8/20/2024 21:56	60803	BUCK_T1	11	18	7	0.33	0.33	0	0	0	0	0	0	0	0	0
8/20/2024 21:56	67503	WEWI_T2	1	1	0	8.8	8.5	-0.3	0	0	0	0	0	0	0	0
8/20/2024 21:56	52006	LING_T2	2	2	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/20/2024 21:56	62101	ELAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/20/2024 21:56	57002	WHIH_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
8/20/2024 21:56	27502	WEIS_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
8/20/2024 21:56	46301	ROHR_T1	52	163	111	0.3	0.27	-0.03	0.2	0.21	0	0	0	0	0	0
8/20/2024 21:56	57003	WHIH_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/20/2024 21:56	67502	WEWI_T2	0	0	0	0	0	0	-0.38	-0.43	0	0	0	0	0	0
8/20/2024 21:57	50105	HARR_T3	6	6	0	5.7	5.3	-0.4	0	0	0	0	0	0	0	0
8/20/2024 21:57	40101	HUNT_T2	0	0	0	0	0	0	-0.4	-0.43	0	0	0	0	0	0
8/20/2024 21:57	65502	MOJO_T2	187	300	113	0.14	0.3	0.16	0	0	0	0	0	0	0	0
8/20/2024 21:57	40802	EXCH_T2	0	10	10	0	0.11	0.11	-0.26	-0.26	0	0	0	0	0	0
8/20/2024 21:57	50107	HARR_T3	1	1	0	5.9	5.6	-0.3	0	0	0	0	0	0	0	0
8/20/2024 21:57	12807	MICK_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/20/2024 21:57	65202	PRIN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:57	63306	GREE_T1	0	0	0	0	0	0	-1.48	-1.48	1	1	0	900	900	0
8/20/2024 21:57	63602	LETO_T1	0	0	0	0	0	0	-0.29	-0.39	0	0	0	0	0	0
8/20/2024 21:57	46001	BERW_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
8/20/2024 21:57	20401	ASHF_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
8/20/2024 21:57	57203	ROSS_T1	0	0	0	0	0	0	0.44	0.38	0	0	0	0	0	0
8/20/2024 21:57	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 21:57	10703	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 21:57	60803	BUCK_T1	11	18	7	0.33	0.33	0	0	0	0	0	0	0	0	0
8/20/2024 21:57	63302	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 21:57	54202	PENN_T2	343	733	390	0.16	0.28	0.12	0	0	0	0	0	0	0	0
8/20/2024 21:57	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
8/20/2024 21:57	15604	NSTR_T1	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
8/20/2024 21:57	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
8/20/2024 21:57	64202	KINZ_T1	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
8/20/2024 21:57	64204	KINZ_T1	1	1	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
8/20/2024 21:57	45902	AUBU_T1	2	0	-2	0.1	0	-0.1	-0.55	-0.51	0	0	0	0	0	0
8/20/2024 21:57	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 21:57	40801	EXCH_T2	3	3	0	0.23	0.37	0.14	0	0	0	0	0	0	0	0
8/20/2024 21:57	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
8/20/2024 21:57	43301	WATS_T2	0	1	1	0	0.1	0.1	0.33	0.32	0	0	0	0	0	0
8/20/2024 21:57	63305	GREE_T1	3	0	-3	0.1	0	-0.1	-1.16	-1.11	0	0	0	0	0	0
8/20/2024 21:57	42601	TUSC_T1	0	0	0	0	0	0	-0.49	-0.45	1	1	0	600	600	0
8/20/2024 21:57	64201	KINZ_T1	0	1	1	0	1.1	1.1	-0.67	-0.64	3	3	0	1500	1500	0
8/20/2024 21:57	12801	MICK_T1	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
8/20/2024 21:57	11104	EGYP_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
8/20/2024 21:57	45501	DERR_T2	2	0	-2	0.2	0	-0.2	0.15	-0.11	2	2	0	1800	1800	0
8/20/2024 21:57	50202	HARR_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 21:57	65503	MOJO_T2	12	190	178	0.1	0.17	0.07	0	0	0	0	0	0	0	0
8/20/2024 21:57	54206	PENN_T2	156	390	234	0.22	0.28	0.06	0.07	0.04	0	0	0	0	0	0
8/20/2024 21:57	43302	WATS_T2	2	4	2	0.3	0.38	0.08	0	0	0	0	0	0	0	0
8/20/2024 21:57	50201	HARR_T3	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/20/2024 21:57	50103	HARR_T3	2	0	-2	0.6	0	-0.6	-0.69	-0.67	1	1	0	1200	1200	0
8/20/2024 21:57	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 21:57	54204	PENN_T2	4	4	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
8/20/2024 21:57	65205	PRIN_T1	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:57	14801	TREI_T2	5	6	1	0.2	0.43	0.23	-1.05	-1.16	0	0	0	0	0	0
8/20/2024 21:57	50102	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:57	60801	BUCK_T1	42	61	19	0.24	0.36	0.12	-0.2	-0.23	0	0	0	0	0	0
8/20/2024 21:57	67702	WERN_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
8/20/2024 21:57	45901	AUBU_T1	0	0	0	0	0	0	1.54	1.52	0	0	0	0	0	0
8/20/2024 21:57	10705	CATA_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
8/20/2024 21:57	67605	WARW_T1	23	35	12	0.58	0.61	0.03	-1.18	-1.2	0	0	0	0	0	0
8/20/2024 21:57	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 21:57	56501	ROCK_T2	3	2	-1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
8/20/2024 21:58	67203	TEHI_T1	0	0	0	0	0	0	2.18	2.2	2	2	0	1500	1500	0
8/20/2024 21:58	54204	PENN_T2	4	4	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
8/20/2024 21:58	10703	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 21:58	67802	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:58	63501	HEID_TBK1-2	56	56	0	1.39	1.26	-0.13	0.45	0.43	0	0	0	0	0	0
8/20/2024 21:58	22101	EDEL_T2	0	0	0	0	0	0	0.56	0.55	1	1	0	1200	1200	0
8/20/2024 21:58	67803	WLAN_T1	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
8/20/2024 21:58	45501	DERR_T2	2	0	-2	0.2	0	-0.2	0.15	-0.11	2	2	0	1800	1800	0
8/20/2024 21:58	54206	PENN_T2	156	390	234	0.22	0.28	0.06	0	0	0	0	0	0	0	0
8/20/2024 21:58	67804	WLAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:58	12002	HATF_T1	0	0	0	0	0	0	-0.93	-0.96	1	1	0	1200	1200	0
8/20/2024 21:58	60502	NMAN_T2	0	0	0	0	0	0	-0.13	-0.22	0	0	0	0	0	0
8/20/2024 21:58	61301	EARL_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
8/20/2024 21:58	14203	EALL_T1	0	0	0	0	0	0	-0.26	-0.22	1	1	0	1200	1200	0
8/20/2024 21:58	53903	HALI_T2	2	2	0	1.45	1.6	0.15	0	0	0	0	0	0	0	0
8/20/2024 21:58	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
8/20/2024 21:58	67805	WLAN_T1	411	473	62	0.25	0.27	0.02	0	0	0	0	0	0	0	0
8/20/2024 21:58	54202	PENN_T2	343	733	390	0.16	0.28	0.12	1.25	1.35	0	0	0	0	0	0
8/20/2024 21:58	64801	MONE_T2	3	9	6	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
8/20/2024 21:58	67801	WLAN_T1	0	0	0	0	0	0	1.08	1.04	0	0	0	0	0	0
8/20/2024 21:58	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
8/20/2024 21:58	64802	MONE_T2	0	5	5	0	0.16	0.16	0.25	0.24	0	0	0	0	0	0
8/20/2024 21:58	53901	HALI_T2	2	4	2	1.2	0.48	-0.72	-1.28	-1.27	0	0	0	0	0	0
8/20/2024 21:58	55001	NEWP_T1	8	0	-8	0.13	0	-0.13	-0.34	-0.24	0	0	0	0	0	0
8/20/2024 21:58	62101	ELAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/20/2024 21:58	62105	ELAN_T1	93	46	-47	0.11	0.11	0	0	0	0	0	0	0	0	0
8/20/2024 21:58	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 21:58	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 21:58	53902	HALI_T2	1	1	0	5.1	5.9	0.8	0	0	0	0	0	0	0	0
8/20/2024 21:58	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 21:58	62106	ELAN_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 21:58	60501	NMAN_T2	1	29	28	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:58	56504	ROCK_T2	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/20/2024 21:58	10707	CATA_T2	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
8/20/2024 21:58	55002	NEWP_T1	6	6	0	1.27	0.93	-0.34	-0.26	-0.25	0	0	0	0	0	0
8/20/2024 21:58	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
8/20/2024 21:59	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 21:59	25503	MADI_T1	109	154	45	0.37	0.54	0.17	-1	-1	0	0	0	0	0	0
8/20/2024 21:59	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:59	43202	MVIL_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
8/20/2024 21:59	51004	NHAR_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
8/20/2024 21:59	54602	SUMM_T2	7	8	1	0.16	0.23	0.07	0	0	0	0	0	0	0	0
8/20/2024 21:59	47401	PENS_T1	0	0	0	0	0	0	0.94	1.01	0	0	0	0	0	0
8/20/2024 21:59	43302	WATS_T2	2	4	2	0.3	0.38	0.08	0	0	0	0	0	0	0	0
8/20/2024 21:59	67804	WLAN_T1	0	2	2	0	0.1	0.1	-1.06	-1.06	0	0	0	0	0	0
8/20/2024 21:59	10805	CHHI_T2	1	1	0	7.3	7.1	-0.2	-1.09	-0.52	1	0	-1	600	0	-600
8/20/2024 21:59	55001	NEWP_T1	8	0	-8	0.13	0	-0.13	0	0	0	0	0	0	0	0
8/20/2024 21:59	14204	EALL_T2	0	0	0	0	0	0	1.03	1.09	0	0	0	0	0	0
8/20/2024 21:59	66703	STRA_T1	93	106	13	0.29	0.29	0	-0.28	-0.29	0	0	0	0	0	0
8/20/2024 21:59	47502	NECO_T1	1	1	0	0.6	0.9	0.3	0.82	0.81	0	0	0	0	0	0
8/20/2024 21:59	59202	THOM_T1	371	257	-114	0.34	0.25	-0.09	0	0	0	0	0	0	0	0
8/20/2024 21:59	54601	SUMM_T2	12	13	1	0.45	0.59	0.14	-0.87	-0.92	1	1	0	1200	1200	0
8/20/2024 21:59	44201	POIN_T1	11	18	7	0.14	0.12	-0.02	-1.74	-1.78	2	2	0	2100	2100	0
8/20/2024 21:59	45501	DERR_T2	2	0	-2	0.2	0	-0.2	0.15	-0.11	2	2	0	1800	1800	0
8/20/2024 21:59	21701	SUBU_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
8/20/2024 21:59	54603	SUMM_T2	1	2	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 21:59	21704	SUBU_T1	0	0	0	0	0	0	-1.26	-1.18	1	1	0	1200	1200	0
8/20/2024 21:59	14202	EALL_T2	2	3	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
8/20/2024 21:59	65503	MOJO_T2	12	190	178	0.1	0.17	0.07	-0.28	-0.37	0	0	0	0	0	0
8/20/2024 21:59	25501	MADI_T1	3	3	0	0.47	0.6	0.13	0	0	0	0	0	0	0	0
8/20/2024 21:59	51006	NHAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 21:59	51002	NHAR_T1	1	2	1	1.8	1.15	-0.65	0	0	0	0	0	0	0	0
8/20/2024 21:59	64802	MONE_T2	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
8/20/2024 21:59	21705	SUBU_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
8/20/2024 21:59	65502	MOJO_T2	187	300	113	0.14	0.3	0.16	0	0	0	0	0	0	0	0
8/20/2024 21:59	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/20/2024 21:59	43301	WATS_T2	0	1	1	0	0.1	0.1	0.33	0.32	0	0	0	0	0	0
8/20/2024 21:59	24202	PROV_T4	3	12	9	0.77	0.11	-0.66	-0.51	-0.6	1	1	0	1200	1200	0
8/20/2024 21:59	64801	MONE_T2	3	9	6	0.37	0.2	-0.17	0.28	0.26	0	0	0	0	0	0
8/20/2024 21:59	55002	NEWP_T1	6	6	0	1.27	0.93	-0.34	-0.26	-0.25	0	0	0	0	0	0
8/20/2024 21:59	67805	WLAN_T1	411	473	62	0.25	0.27	0.02	0	0	0	0	0	0	0	0
8/20/2024 21:59	66505	SMAN_T2	3	3	0	0.7	0.9	0.2	0.03	-0.02	1	1	0	900	900	0
8/20/2024 21:59	67802	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 21:59	59201	THOM_T1	25	16	-9	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
8/20/2024 21:59	11901	ETEX_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
8/20/2024 21:59	42302	MOWR_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
8/20/2024 22:00	56501	ROCK_T2	2	2	0	0.8	0.4	-0.4	0.1	0.1	0	0	0	0	0	0
8/20/2024 22:00	17804	GILB_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
8/20/2024 22:00	21206	ECAR_T2	1	1	0	8	8.5	0.5	-0.08	-0.01	0	0	0	0	0	0
8/20/2024 22:00	50502	MECH_T1	122	74	-48	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
8/20/2024 22:00	23401	HONE_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
8/20/2024 22:00	67804	WLAN_T1	2	134	132	0.1	0.16	0.06	0	0	0	0	0	0	0	0
8/20/2024 22:00	60201	ATGL_T2	45	136	91	0.19	0.25	0.06	-0.02	-0.07	0	0	0	0	0	0
8/20/2024 22:00	60101	COCA_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
8/20/2024 22:00	65601	QVIL_T2	116	81	-35	0.26	0.17	-0.09	-1.09	-1.17	1	1	0	900	900	0
8/20/2024 22:00	44201	POIN_T1	14	114	100	0.1	0.19	0.09	-1.74	-1.78	2	2	0	2100	2100	0
8/20/2024 22:00	42902	MIDD_T2	0	0	0	0	0	0	-2.2	-1.98	2	2	0	1200	1200	0
8/20/2024 22:00	22901	HARW_T1	0	0	0	0	0	0	-0.6	-0.65	1	1	0	1200	1200	0
8/20/2024 22:00	10801	CHHI_T1	0	0	0	0	0	0	-0.75	-0.78	1	1	0	900	900	0
8/20/2024 22:00	42903	MIDD_T2	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
8/20/2024 22:00	21204	ECAR_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
8/20/2024 22:00	49803	UNIV_T1	1	1	0	5.8	5.4	-0.4	-1	-1.08	0	0	0	0	0	0
8/20/2024 22:00	63404	HONY_T1	101	42	-59	0.28	0.16	-0.12	0	0	0	0	0	0	0	0
8/20/2024 22:00	60404	DILL_T2	0	1	1	0	0.9	0.9	-0.38	-0.38	1	1	0	1200	1200	0
8/20/2024 22:00	40802	EKCH_T2	10	0	-10	0.11	0	-0.11	-0.26	-0.26	0	0	0	0	0	0
8/20/2024 22:00	67502	WEWI_T2	0	37	37	0	0.15	0.15	-0.38	-0.43	0	0	0	0	0	0
8/20/2024 22:00	67503	WEWI_T2	1	1	0	8.5	8.8	0.3	0	0	0	0	0	0	0	0
8/20/2024 22:00	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 22:00	17401	FOHI_T1	0	0	0	0	0	0	-0.91	-0.89	0	0	0	0	0	0
8/20/2024 22:00	62105	ELAN_T1	46	0	-46	0.11	0	-0.11	0	0	0	0	0	0	0	0
8/20/2024 22:00	52006	LING_T2	2	2	0	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
8/20/2024 22:00	49804	UNIV_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
8/20/2024 22:00	54504	ENOL_T2	0	0	0	0	0	0	-1.08	-1.1	1	1	0	600	600	0
8/20/2024 22:00	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
8/20/2024 22:00	46504	LOHA_T1	3	3	0	1.03	0.97	-0.06	0	0	0	0	0	0	0	0
8/20/2024 22:00	59202	THOM_T1	257	3	-254	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/20/2024 22:00	24105	EHAZ_T1	4	4	0	6.25	5.8	-0.45	0	0	0	0	0	0	0	0
8/20/2024 22:00	67401	WAKE_T2	0	23	23	0	0.14	0.14	0	0	0	0	0	0	0	0
8/20/2024 22:00	62106	ELAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/20/2024 22:00	54505	ENOL_T2	1	1	0	1.6	1.1	-0.5	0	0	0	0	0	0	0	0
8/20/2024 22:00	67802	WLAN_T1	1	18	17	0.1	0.17	0.07	0	0	0	0	0	0	0	0
8/20/2024 22:00	40801	EKCH_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
8/20/2024 22:00	45501	DERR_T2	0	0	0	0	0	0	0.31	-0.22	4	4	0	3600	3600	0
8/20/2024 22:00	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
8/20/2024 22:00	50501	MECH_T1	4	4	0	0.85	0.95	0.1	0.51	0.24	0	0	0	0	0	0
8/20/2024 22:00	12807	MICK_T1	1	1	0	0.2	0.5	0.3	0.23	0.19	0	0	0	0	0	0
8/20/2024 22:00	42503	ALTA_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
8/20/2024 22:00	62101	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/20/2024 22:00	54501	ENOL_T2	4	3	-1	0.45	0.13	-0.32	0	0	0	0	0	0	0	0
8/20/2024 22:00	41901	REED_T1	8	5	-3	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
8/20/2024 22:00	59201	THOM_T1	16	0	-16	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/20/2024 22:00	24104	EHAZ_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	1200	1200	0
8/20/2024 22:00	63602	LETO_T1	0	4	4	0	0.1	0.1	-0.29	-0.39	0	0	0	0	0	0
8/20/2024 22:00	51303	WIND_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
8/20/2024 22:00	44801	EDAN_T2	213	324	111	0.58	0.61	0.03	-1.66	-1.68	0	0	0	0	0	0
8/20/2024 22:00	63303	GREE_T1	0	0	0	0	0	0	0.64	0.6	1	1	0	600	600	0
8/20/2024 22:00	65603	QVIL_T2	46	21	-25	0.14	0.14	0	0	0	0	0	0	0	0	0
8/20/2024 22:00	47402	PENS_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/20/2024 22:00	63401	HONY_T1	12	5	-7	0.24	0.24	0	-0.11	-0.29	1	1	0	600	600	0
8/20/2024 22:00	40902	JESH_T1	0	0	0	0	0	0	-1.6	-1.64	0	0	0	0	0	0
8/20/2024 22:00	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 22:00	41902	REED_T1	0	0	0	0	0	0	1.01	1	0	0	0	0	0	0
8/20/2024 22:00	52002	LING_T2	1	1	0	0.4	0.5	0.1	0.02	-0.07	0	0	0	0	0	0
8/20/2024 22:00	63305	GREE_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 22:00	67803	WLAN_T1	0	169	169	0	0.12	0.12	-1.69	-1.65	0	0	0	0	0	0
8/20/2024 22:00	52004	LING_T2	2	2	0	6.15	6.05	-0.1	0	0	0	0	0	0	0	0
8/20/2024 22:00	65602	QVIL_T2	25	31	6	0.22	0.24	0.02	0	0	0	0	0	0	0	0
8/20/2024 22:00	67805	WLAN_T1	457	547	90	0.27	0.46	0.19	0	0	0	0	0	0	0	0
8/20/2024 22:00	47401	PENS_T1	0	0	0	0	0	0	0.94	1.01	0	0	0	0	0	0
8/20/2024 22:00	62102	ELAN_T1	0	0	0	0	0	0	0.82	0.72	0	0	0	0	0	0
8/20/2024 22:00	56504	ROCK_T2	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
8/20/2024 22:00	67801	WLAN_T1	0	39	39	0	0.11	0.11	0	0	0	0	0	0	0	0
8/20/2024 22:00	54502	ENOL_T2	103	1	-102	0.15	0.4	0.25	0	0	0	0	0	0	0	0
8/20/2024 22:00	46501	LOHA_T1	0	1	1	0	0	0	0.1	0.05	2	2	0	2400	2400	0
8/20/2024 22:00	47001	HUGH_T2	4	8	4	2.28	1.23	-1.05	-0.89	-0.91	0	0	0	0	0	0
8/20/2024 22:00	53601	DALM_T2	1	1	0	0.5	0.4	-0.1	-0.03	-0.01	0	0	0	0	0	0
8/20/2024 22:00	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/20/2024 22:00	47002	HUGH_T2	3	10	7	0.17	0.28	0.11	0	0	0	0	0	0	0	0
8/20/2024 22:00	17805	GILB_T2	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
8/20/2024 22:00	65604	QVIL_T2	3	3	0	0.23	0.13	-0.1	0.34	0.31	0	0	0	0	0	0
8/20/2024 22:01	59201	THOM_T1	16	0	-16	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/20/2024 22:01	51004	NHAR_T1	1	1	0	5.5	6	0.5	0	0	0	0	0	0	0	0
8/20/2024 22:01	54205	PENN_T1	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/20/2024 22:01	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 22:01	52402	GRPA_T2	4	4	0	1.03	0.23	-0.8	0	0	0	0	0	0	0	0
8/20/2024 22:01	42001	MNVL_T2	281	256	-25	1.17	0.93	-0.24	0	0	0	0	0	0	0	0
8/20/2024 22:01	14801	TREI_T2	1	6	5	1.5	0.43	-1.07	0	0	0	0	0	0	0	0
8/20/2024 22:01	53902	HALI_T2	1	1	0	5.9	5.2	-0.7	0	0	0	0	0	0	0	0
8/20/2024 22:01	54601	SUMM_T2	13	11	-2	0.59	0.68	0.09	-0.87	-0.92	1	1	0	1200	1200	0
8/20/2024 22:01	53901	HALI_T2	4	1	-3	0.48	0.9	0.42	-1.28	-1.27	0	0	0	0	0	0
8/20/2024 22:01	52403	GRPA_T2	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
8/20/2024 22:01	63602	LETO_T1	0	4	4	0	0.1	0.1	-0.29	-0.39	0	0	0	0	0	0
8/20/2024 22:01	59301	MCAL_T1	4	0	-4	0.45	0	-0.45	-1.14	-1.12	0	0	0	0	0	0
8/20/2024 22:01	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
8/20/2024 22:01	53903	HALI_T2	2	2	0	1.6	1.1	-0.5	0	0	0	0	0	0	0	0
8/20/2024 22:01	21701	SUBU_T1	1	1	0	5.5	5.9	0.4	0	0	0	0	0	0	0	0
8/20/2024 22:01	67804	WLAN_T1	2	134	132	0.1	0.16	0.06	0	0	0	0	0	0	0	0
8/20/2024 22:01	67803	WLAN_T1	0	169	169	0	0.12	0.12	0	0	0	0	0	0	0	0
8/20/2024 22:01	56501	ROCK_T2	2	2	0	0.8	0.4	-0.4	0.21	0.2	0	0	0	0	0	0
8/20/2024 22:01	54603	SUMM_T2	1	2	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 22:01	59202	THOM_T1	257	3	-254	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/20/2024 22:01	62106	ELAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/20/2024 22:01	50502	MECH_T1	122	74	-48	0.25	0.18	-0.07	-0.36	-0.39	0	0	0	0	0	0
8/20/2024 22:01	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 22:01	51002	NHAR_T1	2	1	-1	1.15	1.7	0.55	0	0	0	0	0	0	0	0
8/20/2024 22:01	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/20/2024 22:01	67605	WARW_T1	35	14	-21	0.61	0.7	0.09	-2.37	-2.4	0	0	0	0	0	0
8/20/2024 22:01	14802	TREI_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
8/20/2024 22:01	24204	PROV_T3	2	1	-1	2.8	6.1	3.3	0	0	0	0	0	0	0	0
8/20/2024 22:01	21705	SUBU_T1	1	1	0	5.2	5.8	0.6	0	0	0	0	0	0	0	0
8/20/2024 22:01	62102	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 22:01	62101	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/20/2024 22:01	59101	WALK_T2	0	0	0	0	0	0	1.25	1.32	0	0	0	0	0	0
8/20/2024 22:01	52401	GRPA_T2	1	1	0	0.5	0.2	-0.3	-0.47	-0.51	0	0	0	0	0	0
8/20/2024 22:01	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 22:01	67805	WLAN_T1	457	547	90	0.27	0.46	0.19	-1.47	-1.43	0	0	0	0	0	0
8/20/2024 22:01	40101	HUNT_T2	0	0	0	0	0	0	-0.4	-0.43	0	0	0	0	0	0
8/20/2024 22:01	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 22:01	46004	BERW_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
8/20/2024 22:01	61502	EPET_T1	0	0	0	0	0	0	-0.87	-0.89	0	0	0	0	0	0
8/20/2024 22:01	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/20/2024 22:01	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
8/20/2024 22:01	52404	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/20/2024 22:01	51304	WIND_T2	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
8/20/2024 22:01	29402	BELT_T1	1	1	0	8.9	7.8	-1.1	0	0	0	0	0	0	0	0
8/20/2024 22:01	20401	ASHF_T2	2	3	1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/20/2024 22:01	66505	SMAN_T2	3	1	-2	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
8/20/2024 22:01	59302	MCAL_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
8/20/2024 22:01	42002	MNVL_T2	1	1	0	1.1	1.1	0	0.14	0.13	0	0	0	0	0	0
8/20/2024 22:01	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
8/20/2024 22:01	62105	ELAN_T1	46	0	-46	0.11	0	-0.11	0	0	0	0	0	0	0	0
8/20/2024 22:01	46504	LOHA_T1	3	3	0	1.03	0.97	-0.06	0	0	0	0	0	0	0	0
8/20/2024 22:01	44801	EDAN_T2	213	324	111	0.58	0.61	0.03	-1.66	-1.68	0	0	0	0	0	0
8/20/2024 22:01	50501	MECH_T1	4	4	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
8/20/2024 22:01	55101	WERT_T1	0	0	0	0	0	0	-1.47	-0.85	2	1	-1	1500	900	-600
8/20/2024 22:01	66502	SMAN_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
8/20/2024 22:01	24201	PROV_T3	1	1	0	6.3	6.9	0.6	-0.08	-0.1	0	0	0	0	0	0
8/20/2024 22:01	67802	WLAN_T1	1	18	17	0.1	0.17	0.07	0	0	0	0	0	0	0	0
8/20/2024 22:01	12302	LANA_T2	0	0	0	0	0	0	-1.58	-1.6	2	2	0	1500	1500	0
8/20/2024 22:01	54201	PENN_T1	186	110	-76	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
8/20/2024 22:01	21703	SUBU_T1	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
8/20/2024 22:01	46001	BERW_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
8/20/2024 22:01	29401	BELT_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
8/20/2024 22:01	54602	SUMM_T2	8	5	-3	0.23	0.16	-0.07	0	0	0	0	0	0	0	0
8/20/2024 22:01	67801	WLAN_T1	0	39	39	0	0.11	0.11	0	0	0	0	0	0	0	0
8/20/2024 22:01	47203	FAXO_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
8/20/2024 22:01	12002	HATF_T1	0	0	0	0	0	0	-0.93	-0.96	1	1	0	1200	1200	0
8/20/2024 22:01	10805	CHHI_T2	1	1	0	7.1	7.7	0.6	-1.09	-0.52	1	0	-1	600	0	-600
8/20/2024 22:01	54203	PENN_T1	31	18	-13	0.96	1.44	0.48	0.73	0.74	0	0	0	0	0	0
8/20/2024 22:02	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/20/2024 22:02	13704	SCHN_T2	0	6	6	0	0.18	0.18	-0.37	-0.39	0	0	0	0	0	0
8/20/2024 22:02	54603	SUMM_T2	1	2	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 22:02	54202	PENN_T2	730	607	-123	0.28	0.23	-0.05	0.63	0.68	0	0	0	0	0	0
8/20/2024 22:02	10705	CATA_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
8/20/2024 22:02	64802	MONE_T2	2	71	69	0.25	0.17	-0.08	0.25	0.24	0	0	0	0	0	0
8/20/2024 22:02	46101	MACI_T2	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
8/20/2024 22:02	67401	WAKE_T2	0	23	23	0	0.14	0.14	-0.78	-0.78	0	0	0	0	0	0
8/20/2024 22:02	11104	EGYP_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
8/20/2024 22:02	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 22:02	52002	LING_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/20/2024 22:02	45602	WOOL_T1	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
8/20/2024 22:02	54204	PENN_T2	4	4	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
8/20/2024 22:02	60801	BUCK_T1	57	107	50	0.31	0.45	0.14	0	0	0	0	0	0	0	0
8/20/2024 22:02	61801	EELI_T2	0	0	0	0	0	0	-0.32	-0.35	0	0	0	0	0	0
8/20/2024 22:02	20401	ASHF_T2	2	3	1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
8/20/2024 22:02	46803	HEPB_T2	3	0	-3	0.13	0	-0.13	0.6	0.56	0	0	0	0	0	0
8/20/2024 22:02	46802	HEPB_T1	1	1	0	1	1.2	0.2	-0.25	-0.3	0	0	0	0	0	0
8/20/2024 22:02	54206	PENN_T2	381	333	-48	0.28	0.28	0	0	0	0	0	0	0	0	0
8/20/2024 22:02	54602	SUMM_T2	8	5	-3	0.23	0.16	-0.07	0	0	0	0	0	0	0	0
8/20/2024 22:02	60803	BUCK_T1	15	25	10	0.35	0.42	0.07	-1	-0.99	2	2	0	1200	1200	0
8/20/2024 22:02	52004	LING_T2	2	2	0	6.15	6.05	-0.1	0.13	0.14	0	0	0	0	0	0
8/20/2024 22:02	67501	WEWI_T1	0	0	0	0	0	0	-1.2	-0.58	1	0	-1	600	0	-600
8/20/2024 22:02	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
8/20/2024 22:02	10702	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/20/2024 22:02	12006	HATF_T1	0	0	0	0	0	0	0.33	0.26	1	1	0	1200	1200	0
8/20/2024 22:02	44801	EDAN_T2	213	324	111	0.58	0.61	0.03	0	0	0	0	0	0	0	0
8/20/2024 22:02	60701	BREC_T1	3	0	-3	0.1	0	-0.1	-0.53	-0.53	1	1	0	600	600	0
8/20/2024 22:02	52006	LING_T2	2	2	0	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
8/20/2024 22:02	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
8/20/2024 22:02	48901	FOSP_T2	0	0	0	0	0	0	-0.38	-0.29	1	1	0	600	600	0
8/20/2024 22:02	63501	HEID_TBK1-2	55	55	0	1.27	1.65	0.38	0.45	0.43	0	0	0	0	0	0
8/20/2024 22:02	45501	DERR_T2	0	0	0	0	0	0	0.15	-0.11	2	2	0	1800	1800	0
8/20/2024 22:02	62106	ELAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/20/2024 22:02	62105	ELAN_T1	46	0	-46	0.11	0	-0.11	0	0	0	0	0	0	0	0
8/20/2024 22:02	64503	LAVI_T1	0	0	0	0	0	0	-0.55	-0.6	1	1	0	1200	1200	0
8/20/2024 22:02	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 22:02	46801	HEPB_T2	17	2	-15	0.23	0.8	0.57	0	0	0	0	0	0	0	0
8/20/2024 22:02	46001	BERW_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
8/20/2024 22:02	62101	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/20/2024 22:02	44802	EDAN_T2	0	1	1	0	0	0	-0.7	-0.69	0	0	0	0	0	0
8/20/2024 22:02	64801	MONE_T2	6	46	40	0.22	0.19	-0.03	0	0	0	0	0	0	0	0
8/20/2024 22:02	54601	SUMM_T2	13	11	-2	0.59	0.68	0.09	-0.87	-0.92	1	1	0	1200	1200	0
8/20/2024 22:03	63305	GREE_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 22:03	42802	SELI_T1	0	1	1	0	0.1	0.1	-0.89	-1.15	0	0	0	0	0	0
8/20/2024 22:03	44802	EDAN_T2	0	1	1	0	0	0	-1.39	-1.37	0	0	0	0	0	0
8/20/2024 22:03	56501	ROCK_T2	2	2	0	0.8	0.4	-0.4	0.1	0.1	0	0	0	0	0	0
8/20/2024 22:03	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 22:03	66703	STRA_T1	80	107	27	0.25	0.29	0.04	-0.28	-0.29	0	0	0	0	0	0
8/20/2024 22:03	52501	PROG_T1	0	0	0	0	0	0	-0.1	-0.13	1	1	0	300	300	0
8/20/2024 22:03	42502	ALTA_T2	0	0	0	0	0	0	-1.08	-1.14	1	1	0	600	600	0
8/20/2024 22:03	58402	MORO_T1	0	0	0	0	0	0	-0.12	-0.18	2	2	0	1500	1500	0
8/20/2024 22:03	63304	GREE_T1	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
8/20/2024 22:03	44801	EDAN_T2	213	324	111	0.58	0.61	0.03	-1.66	-1.68	0	0	0	0	0	0
8/20/2024 22:03	59202	THOM_T1	257	3	-254	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/20/2024 22:03	42801	SELI_T1	0	0	0	0	0	0	-1.94	-1.99	1	1	0	1200	1200	0
8/20/2024 22:03	65004	NEFF_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
8/20/2024 22:03	59201	THOM_T1	16	0	-16	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/20/2024 22:03	42903	MIDD_T2	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
8/20/2024 22:03	65001	NEFF_T2	22	0	-22	0.11	0	-0.11	0	0	0	0	0	0	0	0
8/20/2024 22:04	42902	MIDD_T2	0	0	0	0	0	0	-1.1	-0.99	1	1	0	600	600	0
8/20/2024 22:04	58402	NEWV_T1	8	8	0	1.51	1.28	-0.23	-0.35	-0.38	0	0	0	0	0	0
8/20/2024 22:04	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
8/20/2024 22:04	59101	WALK_T2	0	0	0	0	0	0	1.25	1.32	0	0	0	0	0	0
8/20/2024 22:04	67801	WLAN_T1	0	39	39	0	0.11	0.11	0	0	0	0	0	0	0	0
8/20/2024 22:04	14802	TREI_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
8/20/2024 22:04	42802	SELI_T1	0	1	1	0	0.1	0.1	-0.3	-0.38	0	0	0	0	0	0
8/20/2024 22:04	66303	MCGO_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/20/2024 22:04	21705	SUBU_T1	1	1	0	5.2	5.8	0.6	0	0	0	0	0	0	0	0
8/20/2024 22:04	54603	SUMM_T2	1	2	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 22:04	55002	NEWP_T1	6	2	-4	0.93	0.45	-0.48	-0.26	-0.25	0	0	0	0	0	0
8/20/2024 22:04	67802	WLAN_T1	1	18	17	0.1	0.17	0.07	0	0	0	0	0	0	0	0
8/20/2024 22:04	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 22:04	62606	ENGL_T1	0	0	0	0	0	0	-0.66	-0.66	1	1	0	900	900	0
8/20/2024 22:04	21701	SUBU_T1	1	1	0	5.5	5.9	0.4	0	0	0	0	0	0	0	0
8/20/2024 22:04	67803	WLAN_T1	0	169	169	0	0.12	0.12	0	0	0	0	0	0	0	0
8/20/2024 22:04	65503	MOJO_T2	190	0	-190	0.17	0	-0.17	0	0	0	0	0	0	0	0
8/20/2024 22:04	54601	SUMM_T2	13	11	-2	0.59	0.68	0.09	-0.87	-0.92	1	1	0	1200	1200	0
8/20/2024 22:04	67804	WLAN_T1	2	134	132	0.1	0.16	0.06	-1.06	-1.06	0	0	0	0	0	0
8/20/2024 22:04	14801	TREI_T2	1	6	5	1.5	0.43	-1.07	0	0	0	0	0	0	0	0
8/20/2024 22:04	60701	BREC_T1	3	0	-3	0.1	0	-0.1	-0.53	-0.53	1	1	0	600	600	0
8/20/2024 22:04	42903	MIDD_T2	2	2	0	0.8	0.95	0.15	-1.22	-1.32	1	1	0	1200	1200	0
8/20/2024 22:04	20401	ASHF_T2	2	3	1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
8/20/2024 22:04	54602	SUMM_T2	8	5	-3	0.23	0.16	-0.07	0	0	0	0	0	0	0	0
8/20/2024 22:04	65502	MOJO_T2	300	0	-300	0.3	0	-0.3	-0.95	-1.06	0	0	0	0	0	0
8/20/2024 22:04	46504	LOHA_T1	3	3	0	1.03	0.97	-0.06	0	0	0	0	0	0	0	0
8/20/2024 22:04	59003	MIFF_T1	1	0	-1	0.4	0	-0.4	0.42	0.59	0	0	0	0	0	0
8/20/2024 22:04	21703	SUBU_T1	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
8/20/2024 22:04	13704	SCHN_T2	0	6	6	0	0.18	0.18	-0.37	-0.39	0	0	0	0	0	0
8/20/2024 22:04	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
8/20/2024 22:04	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
8/20/2024 22:04	66302	MCGO_T2	0	0	0	0	0	0	-0.91	-0.94	0	0	0	0	0	0
8/20/2024 22:04	58402	MORO_T1	0	0	0	0	0	0	-0.12	-0.18	2	2	0	1500	1500	0
8/20/2024 22:04	67805	WLAN_T1	457	547	90	0.27	0.46	0.19	0	0	0	0	0	0	0	0
8/20/2024 22:04	59002	MIFF_T1	6	5	-1	0.77	0.38	-0.39	0	0	0	0	0	0	0	0
8/20/2024 22:04	56501	ROCK_T2	2	2	0	0.8	0.4	-0.4	0.1	0.1	0	0	0	0	0	0
8/20/2024 22:04	42201	SHEN_T2	0	0	0	0	0	0	0.1	0.1	1	1	0	600	600	0
8/20/2024 22:05	56501	ROCK_T2	2	2	0	0.8	0.4	-0.4	0.21	0.2	0	0	0	0	0	0
8/20/2024 22:05	52404	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/20/2024 22:05	60701	BREC_T1	3	0	-3	0.1	0	-0.1	-0.53	-0.53	1	1	0	600	600	0
8/20/2024 22:05	52401	GRPA_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/20/2024 22:05	44301	BEAV_T2	0	0	0	0	0	0	1.07	0.66	2	2	0	1200	1200	0
8/20/2024 22:05	16605	PONO_T1	0	0	0	0	0	0	-0.42	-0.43	1	1	0	1200	1200	0
8/20/2024 22:05	59202	THOM_T1	257	3	-254	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/20/2024 22:05	67605	WARW_T1	35	14	-21	0.61	0.7	0.09	-2.37	-2.4	0	0	0	0	0	0
8/20/2024 22:05	44201	POIN_T1	14	114	100	0.1	0.19	0.09	-1.74	-1.78	2	2	0	2100	2100	0
8/20/2024 22:05	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 22:05	11404	FARM_T1	0	0	0	0	0	0	0.69	0.64	0	0	0	0	0	0
8/20/2024 22:05	52004	LING_T2	2	2	0	6.15	6.05	-0.1	0	0	0	0	0	0	0	0
8/20/2024 22:05	60501	NMAN_T2	29	0	-29	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/20/2024 22:05	40702	FFLD_T1	186	185	-1	0.53	0.46	-0.07	-0.72	-0.77	1	1	0	1200	1200	0
8/20/2024 22:05	40902	JESH_T1	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
8/20/2024 22:05	14404	SSLA_T1	4	3	-1	2.93	3.7	0.77	0	0	0	0	0	0	0	0
8/20/2024 22:05	43202	MVIL_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
8/20/2024 22:05	65904	SAKR_T2	0	0	0	0	0	0	-1.81	-1.64	2	2	0	900	900	0
8/20/2024 22:05	40101	HUNT_T2	0	0	0	0	0	0	-0.4	-0.43	0	0	0	0	0	0
8/20/2024 22:05	67201	TEHI_T1	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
8/20/2024 22:05	64503	LAVI_T1	0	0	0	0	0	0	-0.55	-0.6	1	1	0	1200	1200	0
8/20/2024 22:05	52002	LING_T2	1	1	0	0.4	0.5	0.1	0.01	-0.04	0	0	0	0	0	0
8/20/2024 22:05	63305	GREE_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 22:05	40703	FFLD_T1	4	4	0	0.93	0.8	-0.13	0	0	0	0	0	0	0	0
8/20/2024 22:05	43201	MVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/20/2024 22:05	59101	WALK_T2	0	0	0	0	0	0	1.25	1.32	0	0	0	0	0	0
8/20/2024 22:05	20603	GRWO_T2	0	0	0	0	0	0	-0.67	-0.63	1	1	0	900	900	0
8/20/2024 22:05	40701	FFLD_T1	74	78	4	0.77	0.7	-0.07	0	0	0	0	0	0	0	0
8/20/2024 22:05	11405	FARM_T1	1	1	0	3.3	3	-0.3	0	0	0	0	0	0	0	0
8/20/2024 22:05	52006	LING_T2	2	2	0	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
8/20/2024 22:05	42802	SELI_T1	0	1	1	0	0.1	0.1	-1.77	-2.3	0	0	0	0	0	0
8/20/2024 22:05	42903	MIDD_T2	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
8/20/2024 22:05	59201	THOM_T1	16	0	-16	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/20/2024 22:05	14403	SSLA_T1	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
8/20/2024 22:05	52402	GRPA_T2	4	4	0	1.03	0.23	-0.8	-0.76	-0.77	0	0	0	0	0	0
8/20/2024 22:05	63302	GREE_T1	0	0	0	0	0	0	0.48	0.42	0	0	0	0	0	0
8/20/2024 22:05	65901	SAKR_T2	1	1	0	9.3	8.9	-0.4	0	0	0	0	0	0	0	0
8/20/2024 22:05	52403	GRPA_T2	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
8/20/2024 22:05	42902	MIDD_T2	0	0	0	0	0	0	-1.1	-0.99	1	1	0	600	600	0
8/20/2024 22:06	46506	LOHA_T1	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
8/20/2024 22:06	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 22:06	52404	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/20/2024 22:06	44302	BEAV_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/20/2024 22:06	52401	GRPA_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/20/2024 22:06	56501	ROCK_T2	2	2	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
8/20/2024 22:06	46301	ROHR_T1	159	218	59	0.27	0.32	0.05	0	0	0	0	0	0	0	0
8/20/2024 22:06	63404	HONY_T1	101	42	-59	0.28	0.16	-0.12	0	0	0	0	0	0	0	0
8/20/2024 22:06	57203	ROSS_T1	0	0	0	0	0	0	0.44	0.38	0	0	0	0	0	0
8/20/2024 22:06	58202	NEWV_T1	8	8	0	1.51	1.28	-0.23	-0.35	-0.38	0	0	0	0	0	0
8/20/2024 22:06	46803	HEPB_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
8/20/2024 22:06	56504	ROCK_T2	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
8/20/2024 22:06	67605	WARW_T1	35	14	-21	0.61	0.7	0.09	-1.2	-1.23	0	0	0	0	0	0
8/20/2024 22:06	55001	NEWP_T1	0	0	0	0	0	0	-0.34	-0.24	0	0	0	0	0	0
8/20/2024 22:06	13501	MCMI_T1	1	0	-1	6.4	0	-6.4	0	0	0	0	0	0	0	0
8/20/2024 22:06	46504	LOHA_T1	3	3	0	1.03	0.97	-0.06	0	0	0	0	0	0	0	0
8/20/2024 22:06	46801	HEPB_T2	17	2	-15	0.23	0.8	0.57	0.55	0.55	0	0	0	0	0	0
8/20/2024 22:06	40801	EXCH_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
8/20/2024 22:06	45802	HEGI_T2	41	48	7	1	1.69	0.69	0.52	0.52	0	0	0	0	0	0
8/20/2024 22:06	46302	ROHR_T1	6	9	3	1.7	1.42	-0.28	0.13	0.12	0	0	0	0	0	0
8/20/2024 22:06	43402	BENT_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
8/20/2024 22:06	58401	MORO_T1	0	0	0	0	0	0	-1.16	-1.17	1	1	0	600	600	0
8/20/2024 22:06	63401	HONY_T1	12	5	-7	0.24	0.24	0	-0.29	-0.2	1	1	0	600	600	0
8/20/2024 22:06	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
8/20/2024 22:06	40902	JESH_T1	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
8/20/2024 22:06	52402	GRPA_T2	4	4	0	1.03	0.23	-0.8	0	0	0	0	0	0	0	0
8/20/2024 22:06	55002	NEWP_T1	6	2	-4	0.93	0.45	-0.48	0	0	0	0	0	0	0	0
8/20/2024 22:06	51702	OBER_T1	2	2	0	2.9	2.95	0.05	-0.06	-0.15	0	0	0	0	0	0
8/20/2024 22:06	53601	DALM_T2	1	1	0	0.5	0.4	-0.1	-0.01	-0.01	0	0	0	0	0	0
8/20/2024 22:06	52403	GRPA_T2	2	2	0	0.8	0.6	-0.2	-0.06	-0.13	0	0	0	0	0	0
8/20/2024 22:06	40802	EXCH_T2	10	0	-10	0.11	0	-0.11	-0.26	-0.28	0	0	0	0	0	0
8/20/2024 22:06	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 22:06	64305	LINC_T1	0	0	0	0	0	0	-0.61	-0.57	0	0	0	0	0	0
8/20/2024 22:06	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 22:07	52006	LING_T2	2	2	0	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
8/20/2024 22:07	51702	OBER_T1	2	2	0	2.9	2.95	0.05	-0.15	-0.77	0	1	1	0	600	600
8/20/2024 22:07	65003	NEFF_T2	0	0	0	0	0	0	-0.73	-0.74	1	1	0	600	600	0
8/20/2024 22:07	52002	LING_T2	1	1	0	0.4	0.5	0.1	-0.07	-0.1	0	0	0	0	0	0
8/20/2024 22:07	43201	MVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/20/2024 22:07	43202	MVIL_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
8/20/2024 22:07	64203	KINZ_T1	0	0	0	0	0	0	-0.07	-0.11	1	1	0	600	600	0
8/20/2024 22:07	46504	LOHA_T1	3	3	0	1.03	0.97	-0.06	0	0	0	0	0	0	0	0
8/20/2024 22:07	46501	LOHA_T1	0	1	1	0	0	0	0.02	0.08	1	1	0	1200	1200	0
8/20/2024 22:07	23001	SAID_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
8/20/2024 22:07	52004	LING_T2	2	2	0	6.15	6.05	-0.1	0.14	0.15	0	0	0	0	0	0
8/20/2024 22:07	64201	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
8/20/2024 22:07	56501	ROCK_T2	2	2	0	0.8	0.4	-0.4	0.1	0.09	0	0	0	0	0	0
8/20/2024 22:07	64204	KINZ_T1	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
8/20/2024 22:07	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 22:07	40101	HUNT_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
8/20/2024 22:07	65001	NEFF_T2	22	0	-22	0.11	0	-0.11	0	0	0	0	0	0	0	0
8/20/2024 22:07	64202	KINZ_T1	3	3	0	0.43	0.97	0.54	0	0	0	0	0	0	0	0
8/20/2024 22:08	42201	SHEN_T2	0	0	0	0	0	0	0.1	0.08	1	1	0	600	600	0
8/20/2024 22:08	46506	LOHA_T1	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
8/20/2024 22:08	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 22:08	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 22:08	51301	WIND_T1	0	0	0	0	0	0	-0.24	-0.12	0	0	0	0	0	0
8/20/2024 22:08	21501	CEAV_T2	0	0	0	0	0	0	1.09	1.07	0	0	0	0	0	0
8/20/2024 22:08	46504	LOHA_T1	3	3	0	1.03	0.97	-0.06	0	0	0	0	0	0	0	0
8/20/2024 22:09	41902	REED_T1	0	0	0	0	0	0	1	1.03	0	0	0	0	0	0
8/20/2024 22:09	42802	SELI_T1	0	1	1	0	0.1	0.1	-0.77	-0.72	0	0	0	0	0	0
8/20/2024 22:09	59101	WALK_T2	0	0	0	0	0	0	1.32	1.29	0	0	0	0	0	0
8/20/2024 22:09	41901	REED_T1	8	5	-3	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
8/20/2024 22:10	54204	PENN_T2	4	4	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
8/20/2024 22:10	41902	REED_T1	0	0	0	0	0	0	1	1.03	0	0	0	0	0	0
8/20/2024 22:10	52401	GRPA_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/20/2024 22:10	46506	LOHA_T1	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
8/20/2024 22:10	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 22:10	54202	PENN_T2	730	607	-123	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
8/20/2024 22:10	52403	GRPA_T2	2	2	0	0.8	0.6	-0.2	-0.07	-0.08	0	0	0	0	0	0
8/20/2024 22:10	41901	REED_T1	8	5	-3	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
8/20/2024 22:10	42802	SELI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 22:10	46504	LOHA_T1	3	3	0	1.03	0.97	-0.06	0	0	0	0	0	0	0	0
8/20/2024 22:10	43402	BENT_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
8/20/2024 22:10	40802	EXCH_T2	10	0	-10	0.11	0	-0.11	0	0	0	0	0	0	0	0
8/20/2024 22:10	54206	PENN_T2	381	333	-48	0.28	0.28	0	0.04	0.04	0	0	0	0	0	0
8/20/2024 22:10	52402	GRPA_T2	4	4	0	1.03	0.23	-0.8	0	0	0	0	0	0	0	0
8/20/2024 22:10	40801	EXCH_T2	3	0	-3	0.37	0	-0.37	-0.47	-0.49	1	1	0	1200	1200	0
8/20/2024 22:10	52404	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/20/2024 22:11	65202	PRIN_T1	2	7	5	0.1	0.1	0	0	0	0	0	0	0	0	0
8/20/2024 22:11	53902	HALI_T2	1	1	0	5.9	5.2	-0.7	0	0	0	0	0	0	0	0
8/20/2024 22:11	65205	PRIN_T1	1	2	1	1.8	1	-0.8	0	0	0	0	0	0	0	0
8/20/2024 22:11	53903	HALI_T2	2	2	0	1.6	1.1	-0.5	-0.19	-0.18	0	0	0	0	0	0
8/20/2024 22:11	53901	HALI_T2	4	1	-3	0.48	0.9	0.42	0	0	0	0	0	0	0	0
8/20/2024 22:12	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
8/20/2024 22:12	46504	LOHA_T1	3	3	0	1.03	0.97	-0.06	0	0	0	0	0	0	0	0
8/20/2024 22:12	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/20/2024 22:15	56501	ROCK_T2	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
8/20/2024 22:15	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.18	1	1	0	600	600	0
8/20/2024 22:15	56504	ROCK_T2	0	0	0	0	0	0	-0.15	-0.13	0	0	0	0	0	0
8/20/2024 22:19	12801	MICK_T1	0	0	0	0	0	0	-0.38	-0.35	0	0	0	0	0	0
8/20/2024 22:19	12807	MICK_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/20/2024 22:20	13501	MCMI_T1	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
8/20/2024 22:21	14202	EALL_T2	2	11	9	0.25	0.25	0	0	0	0	0	0	0	0	0
8/20/2024 22:21	14205	EALL_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
8/20/2024 22:21	14204	EALL_T2	0	0	0	0	0	0	1.03	1.04	0	0	0	0	0	0
8/20/2024 22:22	16102	BING_T2	0	2	2	0	0.15	0.15	0.25	0.23	0	0	0	0	0	0
8/20/2024 22:49	54203	PENN_T1	24	18	-6	1.24	1.37	0.13	0	0	0	0	0	0	0	0
8/20/2024 22:49	54201	PENN_T1	212	17	-195	0.34	0.84	0.5	-1.01	-0.78	0	0	0	0	0	0
8/20/2024 22:49	54205	PENN_T1	8	0	-8	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/20/2024 23:02	58202	NEWV_T1	8	8	0	1.49	0.96	-0.53	-0.37	-0.16	0	0	0	0	0	0
8/20/2024 23:10	47001	HUGH_T2	1	3	2	8.5	3.07	-5.43	-1.01	-1	0	0	0	0	0	0
8/20/2024 23:10	47002	HUGH_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/20/2024 23:31	54204	PENN_T2	4	4	0	0.63	0.58	-0.05	0	0	0	0	0	0	0	0
8/20/2024 23:31	54202	PENN_T2	959	986	27	0.45	0.45	0	0	0	0	0	0	0	0	0
8/20/2024 23:31	54206	PENN_T2	757	764	7	0.42	0.43	0.01	-0.06	0	0	0	0	0	0	0
8/20/2024 23:53	10705	CATA_T2	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
8/21/2024 1:08	28403	HART_T2	0	0	0	0	0	0	-1.06	-1.06	1	1	0	900	900	0
8/21/2024 1:22	67503	WEWI_T2	1	2	1	8.8	5.15	-3.65	-0.33	-0.33	0	0	0	0	0	0
8/21/2024 1:36	55508	HERS_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/21/2024 5:03	63201	MGTN_T2	0	0	0	0	0	0	-0.25	-0.26	1	1	0	600	600	0
8/21/2024 7:02	12807	MICK_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
8/21/2024 7:02	12801	MICK_T1	0	0	0	0	0	0	-1.06	-1.01	1	1	0	600	600	0
8/21/2024 7:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 7:09	15202	SFAR_T1	0	0	0	0	0	0	-0.28	-0.22	0	0	0	0	0	0
8/21/2024 7:13	29401	BELT_T1	27	12	-15	0.15	0.12	-0.03	0	0	1	1	0	900	900	0
8/21/2024 7:13	29402	BELT_T1	1	1	0	8.6	8.8	0.2	0	0	0	0	0	0	0	0
8/21/2024 7:23	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 7:29	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 7:29	10102	ALLE_T2	2	1	-1	3.2	6.3	3.1	0	0	0	0	0	0	0	0
8/21/2024 7:32	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/21/2024 7:32	54502	ENOL_T2	1	1	0	0.6	0.6	0	-1.13	-1.14	1	1	0	600	600	0
8/21/2024 7:39	16301	ALPA_T1	0	0	0	0	0	0	-0.07	0	0	0	0	0	0	0
8/21/2024 7:40	16301	ALPA_T1	0	0	0	0	0	0	-0.07	0	0	0	0	0	0	0
8/21/2024 7:40	13103	NHAM_T2	0	0	0	0	0	0	-1.75	-1.73	1	1	0	600	600	0
8/21/2024 7:42	53601	DALM_T2	1	1	0	0.2	0.3	0.1	0.47	0.48	0	0	0	0	0	0
8/21/2024 7:43	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/21/2024 7:43	16301	ALPA_T1	0	0	0	0	0	0	-0.07	0	0	0	0	0	0	0
8/21/2024 7:44	12006	HATF_T1	0	0	0	0	0	0	-0.38	-0.33	2	2	0	2400	2400	0
8/21/2024 7:46	40101	HUNT_T2	0	2	2	0	0.8	0.8	-0.24	-0.23	0	0	0	0	0	0
8/21/2024 7:47	57505	LAWN_T3	70	11	-59	0.28	0.11	-0.17	0	0	0	0	0	0	0	0
8/21/2024 7:47	57502	LAWN_T3	0	0	0	0	0	0	-0.67	-0.59	0	0	0	0	0	0
8/21/2024 7:47	57501	LAWN_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 7:47	46101	MACI_T2	0	0	0	0	0	0	-0.05	-0.06	1	1	0	1200	1200	0
8/21/2024 7:49	44201	POIN_T1	0	0	0	0	0	0	-1.11	-0.99	2	2	0	2100	2100	0
8/21/2024 7:50	12802	MICK_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/21/2024 7:50	12801	MICK_T1	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
8/21/2024 7:50	12807	MICK_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
8/21/2024 7:51	43301	WATS_T2	0	1	1	0	0.2	0.2	-0.67	-0.66	1	1	0	900	900	0
8/21/2024 7:52	14802	TREI_T2	3	7	4	0.13	0.11	-0.02	0.41	0.44	0	0	0	0	0	0
8/21/2024 7:52	14801	TREI_T2	3	6	3	0.7	0.43	-0.27	0	0	0	0	0	0	0	0
8/21/2024 7:53	24201	PROV_T3	1	1	0	6.2	6.3	0.1	-0.2	-0.19	0	0	0	0	0	0
8/21/2024 7:53	57101	SPHI_T2	6	6	0	0.75	1.37	0.62	0	0	0	0	0	0	0	0
8/21/2024 7:53	57103	SPHI_T2	0	0	0	0	0	0	-0.34	-0.37	1	1	0	600	600	0
8/21/2024 7:53	57106	SPHI_T2	3	3	0	1.27	1.77	0.5	0	0	0	0	0	0	0	0
8/21/2024 7:53	24204	PROV_T3	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
8/21/2024 7:54	14601	SWHI_T1	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
8/21/2024 7:54	45901	AUBU_T1	0	0	0	0	0	0	1.89	1.87	0	0	0	0	0	0
8/21/2024 7:56	45502	DERR_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/21/2024 7:56	45501	DERR_T2	0	0	0	0	0	0	0.64	0.68	2	2	0	1800	1800	0
8/21/2024 7:58	44801	EDAN_T2	17	120	103	0.19	0.48	0.29	-1.72	-1.65	0	0	0	0	0	0
8/21/2024 7:59	44801	EDAN_T2	17	120	103	0.19	0.48	0.29	-1.72	-1.65	0	0	0	0	0	0
8/21/2024 7:59	45502	DERR_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/21/2024 7:59	45501	DERR_T2	0	0	0	0	0	0	0.64	0.68	2	2	0	1800	1800	0
8/21/2024 8:00	65702	RVIL_T2	0	0	0	0	0	0	-0.68	-0.64	1	1	0	600	600	0
8/21/2024 8:02	12606	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 8:02	12605	MACA_T1	0	0	0	0	0	0	-1.11	-1.09	0	0	0	0	0	0
8/21/2024 8:02	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 8:06	12606	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 8:06	12605	MACA_T1	0	0	0	0	0	0	-1.09	-1.06	0	0	0	0	0	0
8/21/2024 8:08	67505	WEWI_T1	0	0	0	0	0	0	-0.2	-0.24	1	1	0	900	900	0
8/21/2024 8:09	50105	HARR_T3	6	6	0	5.5	5.95	0.45	0	0	0	0	0	0	0	0
8/21/2024 8:09	50103	HARR_T3	2	2	0	1.1	0.1	-1	0	0	0	0	0	0	0	0
8/21/2024 8:09	50107	HARR_T3	1	1	0	5.8	6.2	0.4	0.47	0.43	0	0	0	0	0	0
8/21/2024 8:10	67502	WEWI_T2	3	1	-2	0.13	0.4	0.27	0	0	0	0	0	0	0	0
8/21/2024 8:10	67503	WEWI_T2	1	1	0	9.8	9.8	0	-0.26	-0.24	0	0	0	0	0	0
8/21/2024 8:11	67503	WEWI_T2	1	1	0	9.8	9.8	0	-0.26	-0.24	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/21/2024 8:11	67502	WEWI_T2	3	1	-2	0.13	0.4	0.27	0	0	0	0	0	0	0	0
8/21/2024 8:12	44801	EDAN_T2	28	184	156	0.19	0.59	0.4	0	0	0	0	0	0	0	0
8/21/2024 8:12	44802	EDAN_T2	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
8/21/2024 8:13	44802	EDAN_T2	0	0	0	0	0	0	-1.54	-1.51	0	0	0	0	0	0
8/21/2024 8:13	44801	EDAN_T2	28	184	156	0.19	0.59	0.4	0	0	0	0	0	0	0	0
8/21/2024 8:14	44802	EDAN_T2	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
8/21/2024 8:14	44801	EDAN_T2	28	184	156	0.19	0.59	0.4	0	0	0	0	0	0	0	0
8/21/2024 8:16	44802	EDAN_T2	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
8/21/2024 8:16	44801	EDAN_T2	118	223	105	0.48	0.55	0.07	0	0	0	0	0	0	0	0
8/21/2024 8:19	50505	MECH_T1	0	0	0	0	0	0	-0.85	-0.82	0	0	0	0	0	0
8/21/2024 8:19	50502	MECH_T1	1	1	0	2.6	2.5	-0.1	0	0	0	0	0	0	0	0
8/21/2024 8:19	64801	MONE_T2	27	55	28	0.16	0.17	0.01	0.29	0.24	0	0	0	0	0	0
8/21/2024 8:19	50501	MECH_T1	4	4	0	1.58	1.43	-0.15	0	0	0	0	0	0	0	0
8/21/2024 8:19	65602	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 8:19	64802	MONE_T2	72	117	45	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
8/21/2024 8:19	65603	QVIL_T2	0	0	0	0	0	0	0.71	0.75	0	0	0	0	0	0
8/21/2024 8:20	60502	NMAN_T2	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
8/21/2024 8:21	60502	NMAN_T2	0	0	0	0	0	0	-0.23	-0.27	0	0	0	0	0	0
8/21/2024 8:21	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/21/2024 8:23	60502	NMAN_T2	0	0	0	0	0	0	-0.23	-0.27	0	0	0	0	0	0
8/21/2024 8:25	59101	WALK_T2	1	1	0	0.4	0.5	0.1	2.27	2.38	0	0	0	0	0	0
8/21/2024 8:25	44301	BEAV_T2	0	0	0	0	0	0	0.38	0.29	2	2	0	1500	1500	0
8/21/2024 8:28	51604	DUKE_T2	0	0	0	0	0	0	-0.95	-0.92	0	0	0	0	0	0
8/21/2024 8:28	67605	WARW_T1	29	26	-3	0.65	0.68	0.03	0	0	0	0	0	0	0	0
8/21/2024 8:28	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 8:29	11904	ETEX_T2	1	1	0	0.5	1.3	0.8	0.18	0.2	0	0	0	0	0	0
8/21/2024 8:30	63401	HONY_T1	0	0	0	0	0	0	0.11	0.13	1	1	0	600	600	0
8/21/2024 8:30	12002	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 8:30	51604	DUKE_T2	0	0	0	0	0	0	-0.95	-0.92	0	0	0	0	0	0
8/21/2024 8:31	11103	EGYP_T1	1	0	-1	3.3	0	-3.3	0	0	0	0	0	0	0	0
8/21/2024 8:31	11102	EGYP_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
8/21/2024 8:32	63401	HONY_T1	0	0	0	0	0	0	0.11	0.13	1	1	0	600	600	0
8/21/2024 8:34	15603	NSTR_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
8/21/2024 8:34	15601	NSTR_T2	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
8/21/2024 8:34	40601	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 8:34	40602	PIGR_T1	1	1	0	1	1	0	-0.66	-0.66	1	1	0	600	600	0
8/21/2024 8:35	46301	ROHR_T1	5	26	21	1.84	0.5	-1.34	0.21	0.2	0	0	0	0	0	0
8/21/2024 8:35	46302	ROHR_T1	5	6	1	2	1.93	-0.07	0.12	0.14	0	0	0	0	0	0
8/21/2024 8:37	43102	SMIL_T2	7	7	0	0.68	0.72	0.04	-0.77	-0.77	1	1	0	600	600	0
8/21/2024 8:37	64902	MILL_T2	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
8/21/2024 8:37	43105	SMIL_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/21/2024 8:37	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
8/21/2024 8:37	43103	SMIL_T2	19	22	3	0.68	0.67	-0.01	0	0	0	0	0	0	0	0
8/21/2024 8:37	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 8:37	64904	MILL_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
8/21/2024 8:37	15703	TANN_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
8/21/2024 8:38	43102	SMIL_T2	7	7	0	0.68	0.72	0.04	0	0	0	0	0	0	0	0
8/21/2024 8:38	43106	SMIL_T2	0	0	0	0	0	0	-0.91	-0.98	2	2	0	2400	2400	0
8/21/2024 8:38	43103	SMIL_T2	19	22	3	0.68	0.67	-0.01	0	0	0	0	0	0	0	0
8/21/2024 8:38	43105	SMIL_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/21/2024 8:39	57002	WHHI_T2	0	0	0	0	0	0	-1.43	-1.42	1	1	0	1200	1200	0
8/21/2024 8:39	56501	ROCK_T2	2	3	1	0.8	1.2	0.4	0	0.03	0	0	0	0	0	0
8/21/2024 8:39	13704	SCHN_T2	0	1	1	0	0	0	-0.27	-0.25	0	0	0	0	0	0
8/21/2024 8:40	46301	ROHR_T1	5	26	21	1.84	0.5	-1.34	0	0	0	0	0	0	0	0
8/21/2024 8:40	46302	ROHR_T1	5	6	1	2	1.93	-0.07	0.14	0.15	0	0	0	0	0	0
8/21/2024 8:41	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 8:41	45502	DEER_T2	2	2	0	0.55	0.3	-0.25	0.27	0.21	1	1	0	300	300	0
8/21/2024 8:42	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 8:42	29402	BELT_T1	1	2	1	8.3	8.5	0.2	0	0	0	0	0	0	0	0
8/21/2024 8:46	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 8:46	54502	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/21/2024 8:46	54506	ENOL_T2	0	0	0	0	0	0	-0.46	-0.39	1	1	0	600	600	0
8/21/2024 8:46	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/21/2024 8:47	11507	FREE_T2	0	0	0	0	0	0	0.99	1.14	0	0	0	0	0	0
8/21/2024 8:48	63403	HONY_T2	0	0	0	0	0	0	-0.35	0.01	1	1	0	600	600	0
8/21/2024 8:49	40101	HUNT_T2	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
8/21/2024 8:51	64101	REFR_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
8/21/2024 8:52	56501	ROCK_T2	3	2	-1	1.03	1.2	0.17	0.03	0.04	0	0	0	0	0	0
8/21/2024 8:52	64101	REFR_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
8/21/2024 8:53	64101	REFR_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
8/21/2024 8:53	56501	ROCK_T2	3	2	-1	1.03	1.2	0.17	0.03	0.04	0	0	0	0	0	0
8/21/2024 8:54	20403	ASHF_T2	2	2	0	0.25	0.35	0.1	1.44	1.49	0	0	0	0	0	0
8/21/2024 8:54	20401	ASHF_T2	2	1	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/21/2024 8:54	13503	MCMI_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
8/21/2024 8:54	64101	REFR_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
8/21/2024 8:55	59101	WALK_T2	1	0	-1	0.5	0	-0.5	2.25	2.11	0	0	0	0	0	0
8/21/2024 8:57	20403	ASHF_T2	2	2	0	0.25	0.35	0.1	1.44	1.49	0	0	0	0	0	0
8/21/2024 8:57	51604	DUKE_T2	0	0	0	0	0	0	-0.91	0.35	0	0	0	0	0	0
8/21/2024 8:57	45902	AUBU_T1	0	0	0	0	0	0	-0.49	-0.47	1	1	0	600	600	0
8/21/2024 8:57	20401	ASHF_T2	2	1	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/21/2024 8:58	51604	DUKE_T2	0	0	0	0	0	0	-0.91	0.35	0	0	0	0	0	0
8/21/2024 9:00	45802	HEGI_T2	1	2	1	0.4	0.1	-0.3	1.32	1.25	0	0	0	0	0	0
8/21/2024 9:03	45802	HEGI_T2	1	2	1	0.4	0.1	-0.3	1.32	1.25	0	0	0	0	0	0
8/21/2024 9:05	16402	MOPO_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
8/21/2024 9:06	16402	MOPO_T1	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
8/21/2024 9:06	57205	ROSS_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/21/2024 9:06	14705	TREX_T1	0	0	0	0	0	0	-0.39	-0.35	0	0	0	0	0	0
8/21/2024 9:06	57203	ROSS_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
8/21/2024 9:08	66504	SMAN_T2	0	0	0	0	0	0	-0.97	-0.76	0	0	0	0	0	0
8/21/2024 9:08	65901	SAKR_T2	1	1	0	9	8.9	-0.1	-1.04	-0.99	1	1	0	900	900	0
8/21/2024 9:09	42903	MIDD_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
8/21/2024 9:09	42902	MIDD_T2	0	3	3	0	0.3	0.3	0.84	0.81	0	0	0	0	0	0
8/21/2024 9:11	20401	ASHF_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/21/2024 9:11	67605	WARW_T1	21	19	-2	0.66	0.68	0.02	-1.11	-1.09	0	0	0	0	0	0
8/21/2024 9:11	67203	TEHI_T1	0	0	0	0	0	0	2.19	2.6	3	3	0	2100	2100	0
8/21/2024 9:11	20403	ASHF_T2	2	3	1	0.35	0.27	-0.08	1.49	1.57	0	0	0	0	0	0
8/21/2024 9:13	67605	WARW_T1	21	19	-2	0.66	0.68	0.02	-1.11	-1.09	0	0	0	0	0	0
8/21/2024 9:14	20401	ASHF_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/21/2024 9:14	20403	ASHF_T2	2	3	1	0.35	0.27	-0.08	1.49	1.57	0	0	0	0	0	0
8/21/2024 9:16	40802	EXCH_T2	1	1	0	0.6	0.7	0.1	-0.55	-0.35	0	0	0	0	0	0
8/21/2024 9:16	40801	EXCH_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/21/2024 9:16	11904	ETEX_T2	1	1	0	1.8	2.4	0.6	0.22	0.24	0	0	0	0	0	0
8/21/2024 9:18	52002	LING_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/21/2024 9:18	64305	LINC_T1	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
8/21/2024 9:18	52004	LING_T2	4	5	1	3.18	2.96	-0.22	0.32	0.3	0	0	0	0	0	0
8/21/2024 9:19	42201	SHEN_T2	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
8/21/2024 9:21	60504	NMAN_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/21/2024 9:21	60502	NMAN_T2	0	0	0	0	0	0	-0.27	-0.15	0	0	0	0	0	0
8/21/2024 9:22	41902	REED_T1	0	0	0	0	0	0	1.09	1.09	0	0	0	0	0	0
8/21/2024 9:23	41902	REED_T1	0	0	0	0	0	0	1.09	1.09	0	0	0	0	0	0
8/21/2024 9:23	66703	STRA_T1	2	2	0	0.3	0.55	0.25	0	0	0	0	0	0	0	0
8/21/2024 9:23	66701	STRA_T1	0	1	1	0	0.3	0.3	0	0.01	1	1	0	600	600	0
8/21/2024 9:23	14201	EALL_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
8/21/2024 9:24	50701	SMEC_T1	1	1	0	0.1	0.1	0	-0.95	0.37	1	0	-1	1200	0	-1200
8/21/2024 9:25	21703	SUBU_T1	0	0	0	0	0	0	0.81	0.83	0	0	0	0	0	0
8/21/2024 9:25	21705	SUBU_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
8/21/2024 9:25	21701	SUBU_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
8/21/2024 9:26	66703	STRA_T1	2	2	0	0.3	0.55	0.25	0	0	0	0	0	0	0	0
8/21/2024 9:26	66701	STRA_T1	0	1	1	0	0.3	0.3	0	0.01	1	1	0	600	600	0
8/21/2024 9:29	67503	WEWI_T2	1	1	0	9.4	9.3	-0.1	-0.13	-0.1	0	0	0	0	0	0
8/21/2024 9:29	40101	HUNT_T2	0	0	0	0	0	0	-0.4	-0.45	0	0	0	0	0	0
8/21/2024 9:29	67502	WEWI_T2	3	5	2	0.53	0.52	-0.01	0	0	0	0	0	0	0	0
8/21/2024 9:29	67605	WARW_T1	19	24	5	0.65	0.68	0.03	-1.09	-1.07	0	0	0	0	0	0
8/21/2024 9:29	11104	EGYP_T1	0	0	0	0	0	0	0.57	0.6	0	0	0	0	0	0
8/21/2024 9:29	20601	GRWO_T2	0	0	0	0	0	0	1.23	1.28	0	0	0	0	0	0
8/21/2024 9:29	11103	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 9:30	11104	EGYP_T1	0	0	0	0	0	0	0.57	0.6	0	0	0	0	0	0
8/21/2024 9:30	11103	EGYP_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/21/2024 9:32	52402	GRPA_T2	3	6	3	0.37	0.38	0.01	0	0	0	0	0	0	0	0
8/21/2024 9:32	12302	LANA_T2	0	0	0	0	0	0	-1.65	-1.64	2	2	0	1500	1500	0
8/21/2024 9:32	52403	GRPA_T2	1	1	0	0.2	0.5	0.3	0.07	0.11	0	0	0	0	0	0
8/21/2024 9:33	65603	QVIL_T2	0	0	0	0	0	0	0.77	0.74	0	0	0	0	0	0
8/21/2024 9:33	45002	LIME_2	1	1	0	4.4	5	0.6	0	0	0	0	0	0	0	0
8/21/2024 9:33	45003	LIME_2	1	1	0	3	3.3	0.3	0.32	0.36	0	0	0	0	0	0
8/21/2024 9:34	64801	MONE_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
8/21/2024 9:34	64802	MONE_T2	33	53	20	0.18	0.18	0	0.3	0.32	0	0	0	0	0	0
8/21/2024 9:38	29402	BELT_T1	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
8/21/2024 9:38	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 9:39	65003	NEFF_T2	3	6	3	0.17	0.18	0.01	0	0	0	0	0	0	0	0
8/21/2024 9:39	65005	NEFF_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
8/21/2024 9:39	65004	NEFF_T2	0	2	2	0	0.2	0.2	-0.51	-0.5	0	0	0	0	0	0
8/21/2024 9:40	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 9:40	64602	LEOL_T1	0	0	0	0	0	0	0.34	0.38	0	0	0	0	0	0
8/21/2024 9:42	48302	ORWI_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
8/21/2024 9:42	16103	BING_T2	0	0	0	0	0	0	-1.48	-1.5	1	1	0	900	900	0
8/21/2024 9:43	45902	AUBU_T1	0	0	0	0	0	0	-0.49	-0.46	1	1	0	600	600	0
8/21/2024 9:47	51002	NHAR_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
8/21/2024 9:47	17805	GILB_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
8/21/2024 9:47	43201	MVIL_T2	0	0	0	0	0	0	-0.2	-0.27	0	0	0	0	0	0
8/21/2024 9:47	17804	GILB_T2	1	1	0	0.7	1.8	1.1	0	0	0	0	0	0	0	0
8/21/2024 9:47	51004	NHAR_T1	1	2	1	5.9	3.05	-2.85	-1.36	-1.36	0	0	0	0	0	0
8/21/2024 9:47	17803	GILB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 9:48	17803	GILB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 9:48	17804	GILB_T2	1	1	0	0.7	1.8	1.1	0	0	0	0	0	0	0	0
8/21/2024 9:48	17805	GILB_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
8/21/2024 9:49	52006	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 9:49	40901	JESH_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
8/21/2024 9:49	52004	LING_T2	5	6	1	2.96	2.7	-0.26	0.33	0.33	0	0	0	0	0	0
8/21/2024 9:49	40902	JESH_T1	0	0	0	0	0	0	-0.24	-0.19	0	0	0	0	0	0
8/21/2024 9:49	52002	LING_T2	1	1	0	0.4	0.3	-0.1	-0.01	-0.05	0	0	0	0	0	0
8/21/2024 9:50	64101	REFR_T1	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
8/21/2024 9:50	40901	JESH_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
8/21/2024 9:50	40902	JESH_T1	0	0	0	0	0	0	-0.24	-0.19	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/21/2024 9:51	55002	NEWP_T1	9	9	0	0.72	0.82	0.1	-0.4	-0.39	0	0	0	0	0	0
8/21/2024 9:51	52002	LING_T2	1	1	0	0.4	0.3	-0.1	-0.01	-0.05	0	0	0	0	0	0
8/21/2024 9:51	52004	LING_T2	5	6	1	2.96	2.7	-0.26	0	0	0	0	0	0	0	0
8/21/2024 9:51	52006	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 9:53	13704	SCHN_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
8/21/2024 9:55	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 9:55	64101	REFR_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
8/21/2024 9:55	46002	BERW_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 9:55	46004	BERW_T2	0	0	0	0	0	0	0.43	0.69	0	0	0	0	0	0
8/21/2024 9:55	60701	BREC_T1	0	0	0	0	0	0	-0.31	-0.22	2	2	0	1200	1200	0
8/21/2024 9:55	29402	BELT_T1	1	1	0	7.9	8.2	0.3	0	0	0	0	0	0	0	0
8/21/2024 9:56	46002	BERW_T2	0	2	2	0	0.1	0.1	-4.28	-4.72	4	4	0	3600	3600	0
8/21/2024 9:56	29402	BELT_T1	1	1	0	7.9	8.2	0.3	0	0	0	0	0	0	0	0
8/21/2024 9:56	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 9:56	60701	BREC_T1	0	0	0	0	0	0	-0.62	-0.44	4	4	0	2400	2400	0
8/21/2024 9:57	45901	AUBU_T1	0	0	0	0	0	0	1.91	1.93	0	0	0	0	0	0
8/21/2024 9:57	46002	BERW_T2	0	2	2	0	0.1	0.1	-1.07	-1.18	1	1	0	900	900	0
8/21/2024 9:57	13502	MCMI_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
8/21/2024 9:57	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 9:57	61303	EARL_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/21/2024 9:57	61301	EARL_T1	0	0	0	0	0	0	-1.01	-0.95	2	2	0	1800	1800	0
8/21/2024 9:57	13501	MCMI_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
8/21/2024 9:57	16102	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/21/2024 9:57	16103	BING_T2	0	0	0	0	0	0	-1.5	-1.43	1	1	0	900	900	0
8/21/2024 9:57	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.51	1	1	0	600	600	0
8/21/2024 9:58	51902	COPA_T1	0	0	0	0	0	0	-0.67	-0.62	1	1	0	1200	1200	0
8/21/2024 9:58	45902	AUBU_T1	0	0	0	0	0	0	-0.92	-1.02	2	2	0	1200	1200	0
8/21/2024 9:58	16102	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/21/2024 9:58	51904	COPA_T1	5	5	0	1.34	1.28	-0.06	0	0	0	0	0	0	0	0
8/21/2024 9:58	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 9:58	16101	BING_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
8/21/2024 9:59	40801	EXCH_T2	1	2	1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
8/21/2024 9:59	44801	EDAN_T2	138	134	-4	0.55	0.51	-0.04	0	0	0	0	0	0	0	0
8/21/2024 9:59	48901	FOSP_T2	0	0	0	0	0	0	-0.07	0.02	3	3	0	1800	1800	0
8/21/2024 9:59	44802	EDAN_T2	0	0	0	0	0	0	-1.97	-1.97	0	0	0	0	0	0
8/21/2024 9:59	40802	EXCH_T2	1	1	0	0.7	0.9	0.2	-0.15	-0.2	0	0	0	0	0	0
8/21/2024 9:59	29402	BELT_T1	1	1	0	7.9	8.2	0.3	0	0	0	0	0	0	0	0
8/21/2024 9:59	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 9:59	52202	DEVO_T2	0	0	0	0	0	0	-0.74	-0.76	0	0	0	0	0	0
8/21/2024 9:59	62606	ENGL_T1	0	0	0	0	0	0	-0.62	-0.76	1	1	0	900	900	0
8/21/2024 9:59	62607	ENGL_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/21/2024 9:59	62605	ENGL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/21/2024 10:00	50103	HARR_T3	2	2	0	0.45	1	0.55	-1.36	-1.32	2	2	0	2400	2400	0
8/21/2024 10:00	40505	CRES_T1	3	3	0	5.07	4.93	-0.14	0.39	0.4	0	0	0	0	0	0
8/21/2024 10:00	44802	EDAN_T2	0	0	0	0	0	0	-1.97	-1.97	0	0	0	0	0	0
8/21/2024 10:00	44201	POIN_T1	0	0	0	0	0	0	-0.46	-0.43	2	2	0	2100	2100	0
8/21/2024 10:00	57106	SPHI_T2	3	4	1	0.9	0.95	0.05	0	0	0	0	0	0	0	0
8/21/2024 10:00	46004	BERW_T2	0	0	0	0	0	0	0.22	0.34	0	0	0	0	0	0
8/21/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.17	-0.03	0	0	0	0	0	0
8/21/2024 10:00	59201	THOM_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/21/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	0.26	0.31	0	0	0	0	0	0
8/21/2024 10:00	15603	NSTR_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
8/21/2024 10:00	57101	SPHI_T2	6	6	0	0.8	1.13	0.33	0	0	0	0	0	0	0	0
8/21/2024 10:00	64201	KINZ_T1	0	0	0	0	0	0	-0.22	-0.11	6	6	0	3000	3000	0
8/21/2024 10:00	67502	WEWI_T2	3	10	7	0.93	0.44	-0.49	0	0	0	0	0	0	0	0
8/21/2024 10:00	55105	WERT_T1	0	0	0	0	0	0	-0.43	-0.38	1	1	0	900	900	0
8/21/2024 10:00	45901	AUBU_T1	0	0	0	0	0	0	-0.46	-0.51	1	1	0	600	600	0
8/21/2024 10:00	40802	EXCH_T2	1	1	0	0.9	0.7	-0.2	-0.15	-0.2	0	0	0	0	0	0
8/21/2024 10:00	63401	HONY_T1	0	0	0	0	0	0	0.45	0.68	2	2	0	1200	1200	0
8/21/2024 10:00	56501	ROCK_T2	2	4	2	1	0.65	-0.35	0.07	0.17	0	0	0	0	0	0
8/21/2024 10:00	41902	REED_T1	0	0	0	0	0	0	1.09	1.11	0	0	0	0	0	0
8/21/2024 10:00	57104	SPHI_T2	1	2	1	1.9	0.35	-1.55	-0.04	-0.01	0	0	0	0	0	0
8/21/2024 10:00	44801	EDAN_T2	131	137	6	0.51	0.47	-0.04	0	0	0	0	0	0	0	0
8/21/2024 10:00	50107	HARR_T3	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
8/21/2024 10:00	56504	ROCK_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/21/2024 10:00	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/21/2024 10:00	48901	FOSP_T2	0	0	0	0	0	0	-0.02	0.01	1	1	0	600	600	0
8/21/2024 10:00	60501	NMAN_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:00	64203	KINZ_T1	0	0	0	0	0	0	0.93	0.99	2	2	0	900	900	0
8/21/2024 10:00	65004	NEFF_T2	2	5	3	0.2	0.24	0.04	-0.5	-0.5	0	0	0	0	0	0
8/21/2024 10:00	65003	NEFF_T2	3	7	4	0.2	0.33	0.13	0	0	0	0	0	0	0	0
8/21/2024 10:00	12302	LANA_T2	0	0	0	0	0	0	-1.62	-1.62	2	2	0	1500	1500	0
8/21/2024 10:00	50105	HARR_T3	6	6	0	6.07	6.05	-0.02	0	0	0	0	0	0	0	0
8/21/2024 10:00	63403	HONY_T2	0	0	0	0	0	0	0.2	0.19	1	1	0	600	600	0
8/21/2024 10:00	40801	EXCH_T2	2	1	-1	0.5	1.2	0.7	0	0	0	0	0	0	0	0
8/21/2024 10:00	64204	KINZ_T1	2	4	2	0.55	0.85	0.3	0	0	0	0	0	0	0	0
8/21/2024 10:00	59202	THOM_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:00	67503	WEWI_T2	1	1	0	9.2	9.3	0.1	-0.22	-0.18	0	0	0	0	0	0
8/21/2024 10:00	60504	NMAN_T2	2	3	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:00	46002	BERW_T2	1	1	0	0.1	0	-0.1	-1.07	-1.18	1	1	0	900	900	0
8/21/2024 10:00	65005	NEFF_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:01	50103	HARR_T3	2	2	0	0.45	1	0.55	-0.68	-0.66	1	1	0	1200	1200	0
8/21/2024 10:01	50107	HARR_T3	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
8/21/2024 10:01	50105	HARR_T3	6	6	0	6.07	6.05	-0.02	0	0	0	0	0	0	0	0
8/21/2024 10:02	48901	FOSP_T2	0	0	0	0	0	0	-0.02	0.01	1	1	0	600	600	0
8/21/2024 10:02	47802	MOCA_T2	0	0	0	0	0	0	-0.72	-0.67	0	0	0	0	0	0
8/21/2024 10:02	48902	FOSP_T2	0	0	0	0	0	0	-0.24	-0.12	2	2	0	2400	2400	0
8/21/2024 10:03	45701	LIND_T2	0	0	0	0	0	0	-1.57	-1.56	0	0	0	0	0	0
8/21/2024 10:03	45702	LIND_T2	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/21/2024 10:04	45702	LIND_T2	2	1	-1	0.3	0.2	-0.1	-0.38	-0.35	0	0	0	0	0	0
8/21/2024 10:05	50105	HARR_T3	6	6	0	6.07	6.05	-0.02	0	0	0	0	0	0	0	0
8/21/2024 10:05	50103	HARR_T3	2	2	0	0.45	1	0.55	-1.36	-1.32	2	2	0	2400	2400	0
8/21/2024 10:05	50107	HARR_T3	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
8/21/2024 10:05	24001	WIBA_T1	0	0	0	0	0	0	1.21	1.14	0	0	0	0	0	0
8/21/2024 10:06	66703	STRA_T1	2	1	-1	0.35	0.2	-0.15	-0.05	0	0	0	0	0	0	0
8/21/2024 10:06	44201	POIN_T1	0	0	0	0	0	0	-0.86	-0.76	4	4	0	4200	4200	0
8/21/2024 10:06	48301	ORWI_T1	2	2	0	4.4	4.45	0.05	-0.21	-0.29	1	1	0	900	900	0
8/21/2024 10:06	66701	STRA_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:07	61001	DONV_T1	2	2	0	0.35	1.2	0.85	-0.19	-0.19	0	0	0	0	0	0
8/21/2024 10:07	48301	ORWI_T1	2	2	0	4.4	4.45	0.05	-0.21	-0.29	1	1	0	900	900	0
8/21/2024 10:08	15703	TANN_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:08	44201	POIN_T1	0	0	0	0	0	0	-0.43	-0.38	2	2	0	2100	2100	0
8/21/2024 10:08	43301	WATS_T2	0	1	1	0	0.2	0.2	-0.58	-0.6	1	1	0	900	900	0
8/21/2024 10:08	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 10:08	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:08	65604	QVIL_T2	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
8/21/2024 10:08	60501	NMAN_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:08	60502	NMAN_T2	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
8/21/2024 10:08	15702	TANN_T2	0	1	1	0	0.2	0.2	-0.32	-0.36	0	0	0	0	0	0
8/21/2024 10:08	67203	TEHI_T1	0	0	0	0	0	0	2.7	2.69	3	3	0	2100	2100	0
8/21/2024 10:08	60504	NMAN_T2	2	3	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:09	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 10:09	15703	TANN_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:09	59202	THOM_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:09	42201	SHEN_T2	0	0	0	0	0	0	0.16	0.18	1	1	0	600	600	0
8/21/2024 10:09	44201	POIN_T1	0	0	0	0	0	0	-0.43	-0.38	2	2	0	2100	2100	0
8/21/2024 10:09	20403	ASHF_T2	3	5	2	0.27	0.26	-0.01	1.56	1.56	0	0	0	0	0	0
8/21/2024 10:09	20401	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/21/2024 10:09	46301	ROHR_T1	15	3	-12	0.89	2.87	1.98	0.23	0.22	0	0	0	0	0	0
8/21/2024 10:09	15702	TANN_T2	0	1	1	0	0.2	0.2	-0.32	-0.36	0	0	0	0	0	0
8/21/2024 10:09	46302	ROHR_T1	7	6	-1	1.26	1.4	0.14	0	0	0	0	0	0	0	0
8/21/2024 10:09	43301	WATS_T2	0	1	1	0	0.2	0.2	-1.16	-1.19	2	2	0	1800	1800	0
8/21/2024 10:09	59201	THOM_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/21/2024 10:09	41902	REED_T1	0	0	0	0	0	0	1.11	1.15	0	0	0	0	0	0
8/21/2024 10:10	15703	TANN_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:10	15702	TANN_T2	0	1	1	0	0.2	0.2	-0.32	-0.36	0	0	0	0	0	0
8/21/2024 10:10	20403	ASHF_T2	3	5	2	0.27	0.26	-0.01	1.56	1.56	0	0	0	0	0	0
8/21/2024 10:10	20401	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/21/2024 10:10	29402	BELT_T1	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
8/21/2024 10:10	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/21/2024 10:10	56504	ROCK_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/21/2024 10:10	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 10:10	56501	ROCK_T2	2	4	2	1	0.65	-0.35	0.08	0.09	0	0	0	0	0	0
8/21/2024 10:11	14801	TREI_T2	65	45	-20	0.32	0.28	-0.04	-0.39	-0.37	0	0	0	0	0	0
8/21/2024 10:11	59202	THOM_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:11	59201	THOM_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/21/2024 10:11	29402	BELT_T1	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
8/21/2024 10:11	14802	TREI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/21/2024 10:11	16103	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:11	16102	BING_T2	0	1	1	0	0.4	0.4	1.28	1.29	0	0	0	0	0	0
8/21/2024 10:11	20401	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/21/2024 10:11	67603	WARW_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/21/2024 10:11	20403	ASHF_T2	3	5	2	0.27	0.26	-0.01	1.56	1.56	0	0	0	0	0	0
8/21/2024 10:11	45501	DERR_T2	0	1	1	0	0.8	0.8	1.07	0.98	2	2	0	1800	1800	0
8/21/2024 10:11	44302	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:11	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 10:11	67605	WARW_T1	16	26	10	0.74	0.62	-0.12	-1.07	-1.04	0	0	0	0	0	0
8/21/2024 10:11	44301	BEAV_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
8/21/2024 10:12	29402	BELT_T1	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
8/21/2024 10:12	65702	RVIL_T2	0	1	1	0	0.1	0.1	-0.51	-0.53	1	1	0	600	600	0
8/21/2024 10:13	60801	BUCK_T1	1	1	0	0.2	0.2	0	0.24	0.28	0	0	0	0	0	0
8/21/2024 10:13	67603	WARW_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/21/2024 10:13	61502	EPET_T1	0	0	0	0	0	0	-0.76	-0.42	0	0	0	0	0	0
8/21/2024 10:13	67605	WARW_T1	16	26	10	0.74	0.62	-0.12	-1.07	-1.04	0	0	0	0	0	0
8/21/2024 10:13	17804	GILB_T2	1	2	1	1.8	0.65	-1.15	0	0	0	0	0	0	0	0
8/21/2024 10:13	60803	BUCK_T1	1	0	-1	9.9	0	-9.9	0	0	0	0	0	0	0	0
8/21/2024 10:13	17805	GILB_T2	0	0	0	0	0	0	0.37	0.4	0	0	0	0	0	0
8/21/2024 10:13	16102	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/21/2024 10:13	16103	BING_T2	0	1	1	0	0.2	0.2	-1.43	-1.41	1	1	0	900	900	0
8/21/2024 10:13	45501	DERR_T2	0	1	1	0	0.8	0.8	1.07	0.98	2	2	0	1800	1800	0
8/21/2024 10:13	17803	GILB_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
8/21/2024 10:14	16102	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/21/2024 10:14	53601	DALM_T2	2	1	-1	0.25	0.3	0.05	0.48	0.47	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/21/2024 10:14	17802	GILB_T1	0	1	1	0	0.5	0.5	0.14	0.17	0	0	0	0	0	0
8/21/2024 10:14	20401	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/21/2024 10:14	10504	CRAC_T1	0	0	0	0	0	0	0.11	0.2	0	0	0	0	0	0
8/21/2024 10:14	20403	ASHF_T2	3	5	2	0.27	0.26	-0.01	1.56	1.56	0	0	0	0	0	0
8/21/2024 10:14	16103	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:14	16101	BING_T2	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
8/21/2024 10:15	56501	ROCK_T2	3	4	1	0.73	0.68	-0.05	0.08	0.09	0	0	0	0	0	0
8/21/2024 10:15	17805	GILB_T2	0	0	0	0	0	0	0.37	0.4	0	0	0	0	0	0
8/21/2024 10:15	56504	ROCK_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:15	62102	ELAN_T1	0	1	1	0	0.4	0.4	0.7	0.76	0	0	0	0	0	0
8/21/2024 10:15	62105	ELAN_T1	1	3	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0
8/21/2024 10:15	22905	HARW_T1	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
8/21/2024 10:15	17804	GILB_T2	1	1	0	1.2	0.3	-0.9	-0.55	-0.53	0	0	0	0	0	0
8/21/2024 10:15	17803	GILB_T2	1	3	2	0.2	0.37	0.17	0	0	0	0	0	0	0	0
8/21/2024 10:15	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/21/2024 10:16	67605	WARW_T1	20	25	5	0.66	0.64	-0.02	-1.07	-1.04	0	0	0	0	0	0
8/21/2024 10:16	67603	WARW_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/21/2024 10:16	61801	EELI_T2	0	1	1	0	0	0	-0.04	-0.01	0	0	0	0	0	0
8/21/2024 10:16	11102	EGYP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/21/2024 10:16	11104	EGYP_T1	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
8/21/2024 10:16	20601	GRWO_T2	0	0	0	0	0	0	1.28	1.3	0	0	0	0	0	0
8/21/2024 10:16	13704	SCHN_T2	0	0	0	0	0	0	-0.16	0.04	0	0	0	0	0	0
8/21/2024 10:16	11507	FREE_T2	1	1	0	0.2	0	-0.2	1.28	0.98	0	0	0	0	0	0
8/21/2024 10:17	11102	EGYP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/21/2024 10:17	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:17	52004	LING_T2	6	7	1	2.7	2.6	-0.1	0	0	0	0	0	0	0	0
8/21/2024 10:17	52006	LING_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:17	42902	MIDD_T2	1	3	2	0.9	0.1	-0.8	0.1	0	2	2	0	1200	1200	0
8/21/2024 10:17	42903	MIDD_T2	2	2	0	1.05	1.25	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:17	52002	LING_T2	1	1	0	0.3	0.4	0.1	-0.04	0	0	0	0	0	0	0
8/21/2024 10:17	11104	EGYP_T1	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
8/21/2024 10:18	11901	ETEX_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
8/21/2024 10:18	63501	HEID_TBK1-2	55	57	2	1.7	1.19	-0.51	0.34	0.34	1	1	0	900	900	0
8/21/2024 10:18	11904	ETEX_T2	1	1	0	2.8	1	-1.8	0	0	0	0	0	0	0	0
8/21/2024 10:19	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:19	65503	MOJO_T2	2	2	0	0.5	0.2	-0.3	-0.87	0.16	1	0	-1	900	0	-900
8/21/2024 10:19	52402	GRPA_T2	7	7	0	0.36	0.56	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:19	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
8/21/2024 10:19	52403	GRPA_T2	3	4	1	0.27	0.6	0.33	0.13	0.15	0	0	0	0	0	0
8/21/2024 10:19	63501	HEID_TBK1-2	55	57	2	1.7	1.19	-0.51	0.34	0.34	1	1	0	900	900	0
8/21/2024 10:19	42903	MIDD_T2	2	2	0	1.05	1.25	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:19	42902	MIDD_T2	1	3	2	0.9	0.1	-0.8	0.1	0	2	2	0	1200	1200	0
8/21/2024 10:20	42903	MIDD_T2	2	2	0	1.05	1.25	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:20	60502	NMAN_T2	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
8/21/2024 10:20	52006	LING_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:20	52004	LING_T2	6	7	1	2.7	2.6	-0.1	0.39	0.38	0	0	0	0	0	0
8/21/2024 10:20	50501	MECH_T1	4	4	0	1.43	1.48	0.05	-0.39	-0.65	0	0	0	0	0	0
8/21/2024 10:20	52002	LING_T2	1	1	0	0.3	0.4	0.1	-0.04	0	0	0	0	0	0	0
8/21/2024 10:20	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 10:20	50502	MECH_T1	1	3	2	2.7	1.03	-1.67	-0.22	-0.26	1	1	0	1200	1200	0
8/21/2024 10:20	42902	MIDD_T2	1	3	2	0.9	0.1	-0.8	0.05	0	1	1	0	600	600	0
8/21/2024 10:20	60504	NMAN_T2	2	3	1	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
8/21/2024 10:20	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:20	60501	NMAN_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:20	64305	LINC_T1	0	1	1	0	0.3	0.3	0	0.1	0	0	0	0	0	0
8/21/2024 10:20	50506	MECH_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/21/2024 10:21	25503	MADI_T1	0	2	2	0	0.2	0.2	-0.9	-0.89	0	0	0	0	0	0
8/21/2024 10:21	42302	MOWR_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
8/21/2024 10:21	60502	NMAN_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
8/21/2024 10:21	60504	NMAN_T2	2	3	1	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
8/21/2024 10:21	60501	NMAN_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:21	52006	LING_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:21	65502	MOJO_T2	0	0	0	0	0	0	-0.12	0.02	0	0	0	0	0	0
8/21/2024 10:21	52002	LING_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:21	25501	MADI_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
8/21/2024 10:21	52004	LING_T2	6	7	1	2.7	2.6	-0.1	0.39	0.38	0	0	0	0	0	0
8/21/2024 10:21	42002	MNVL_T2	1	5	4	3.4	3.4	0	0	0	0	0	0	0	0	0
8/21/2024 10:21	42001	MNVL_T2	238	219	-19	0.63	0.49	-0.14	-0.22	-0.2	0	0	0	0	0	0
8/21/2024 10:21	65503	MOJO_T2	2	2	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/21/2024 10:22	60501	NMAN_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:22	65904	SAKR_T2	2	5	3	0.1	0.26	0.16	-1.65	-1.63	2	2	0	900	900	0
8/21/2024 10:22	60504	NMAN_T2	2	3	1	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
8/21/2024 10:22	65901	SAKR_T2	1	1	0	8.5	8.6	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:22	66302	MCGO_T2	420	465	45	0.56	1.04	0.48	-1.49	-1.32	1	1	0	600	600	0
8/21/2024 10:22	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 10:22	23001	SAJO_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
8/21/2024 10:23	56504	ROCK_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:23	23001	SAJO_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
8/21/2024 10:23	60501	NMAN_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:23	56501	ROCK_T2	3	4	1	0.73	0.68	-0.05	0.09	0.09	0	0	0	0	0	0
8/21/2024 10:23	60502	NMAN_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
8/21/2024 10:23	12801	MICK_T1	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
8/21/2024 10:23	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/21/2024 10:23	60504	NMAN_T2	2	3	1	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
8/21/2024 10:24	41902	REED_T1	0	0	0	0	0	0	1.15	1.14	0	0	0	0	0	0
8/21/2024 10:24	42801	SELI_T1	0	0	0	0	0	0	-1.58	-1.61	1	1	0	1200	1200	0
8/21/2024 10:24	51304	WIND_T2	1	1	0	1.3	2	0.7	0.08	0.09	0	0	0	0	0	0
8/21/2024 10:24	56504	ROCK_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:24	42802	SELI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/21/2024 10:24	67201	TEHI_T1	0	0	0	0	0	0	1.18	1.37	1	1	0	900	900	0
8/21/2024 10:24	13905	SEID_T1	0	0	0	0	0	0	-0.92	-0.91	1	1	0	1200	1200	0
8/21/2024 10:24	56501	ROCK_T2	3	4	1	0.73	0.68	-0.05	0.09	0.09	0	0	0	0	0	0
8/21/2024 10:24	51306	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:24	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/21/2024 10:25	14404	SSLA_T1	12	14	2	1.19	1.07	-0.12	0	0	0	0	0	0	0	0
8/21/2024 10:25	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:25	14402	SSLA_T1	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
8/21/2024 10:25	14403	SSLA_T1	2	3	1	0.35	0.57	0.22	0.09	0.07	0	0	0	0	0	0
8/21/2024 10:26	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:26	20401	ASHF_T2	1	3	2	0.1	0.23	0.13	-0.06	-0.13	0	0	0	0	0	0
8/21/2024 10:26	20403	ASHF_T2	3	9	6	0.13	0.62	0.49	0	0	0	0	0	0	0	0
8/21/2024 10:27	44302	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:27	67603	WARW_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/21/2024 10:27	67605	WARW_T1	20	25	5	0.66	0.64	-0.02	-1.04	-1.02	0	0	0	0	0	0
8/21/2024 10:27	44301	BEAV_T2	1	1	0	0.4	0.8	0.4	0.93	0.81	2	2	0	1500	1500	0
8/21/2024 10:28	40702	FFLD_T1	25	4	-21	0.14	0.25	0.11	-0.52	-0.25	1	1	0	1200	1200	0
8/21/2024 10:28	51306	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:28	51304	WIND_T2	1	1	0	1.3	2	0.7	0	0	0	0	0	0	0	0
8/21/2024 10:28	40701	FFLD_T1	57	50	-7	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
8/21/2024 10:28	67502	WEWI_T2	4	10	6	0.83	0.48	-0.35	0	0	0	0	0	0	0	0
8/21/2024 10:28	67503	WEWI_T2	1	1	0	9.3	9.3	0	-0.15	-0.16	0	0	0	0	0	0
8/21/2024 10:28	40703	FFLD_T1	5	3	-2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
8/21/2024 10:29	10801	OHHI_T1	6	2	-4	0.47	0.35	-0.12	-1.17	-0.95	2	2	0	1500	1500	0
8/21/2024 10:29	40101	HUNT_T2	1	4	3	0.7	0.23	-0.47	-0.34	-0.4	0	0	0	0	0	0
8/21/2024 10:29	14203	EALL_T1	0	1	1	0	0.1	0.1	-0.05	-0.09	1	1	0	1200	1200	0
8/21/2024 10:29	11601	CEAL_T1	1	1	0	0.3	0.5	0.2	0	0	1	1	0	1200	1200	0
8/21/2024 10:30	44801	EDAN_T2	136	120	-16	0.47	0.46	-0.01	0	0	0	0	0	0	0	0
8/21/2024 10:30	44802	EDAN_T2	0	0	0	0	0	0	-0.56	-0.62	0	0	0	0	0	0
8/21/2024 10:31	45902	AUBU_T1	0	0	0	0	0	0	-0.47	-0.48	1	1	0	600	600	0
8/21/2024 10:31	44801	EDAN_T2	136	120	-16	0.47	0.46	-0.01	-1.58	-1.54	0	0	0	0	0	0
8/21/2024 10:31	44802	EDAN_T2	0	0	0	0	0	0	-1.12	-1.24	0	0	0	0	0	0
8/21/2024 10:32	28702	HAML_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
8/21/2024 10:32	40101	HUNT_T2	1	3	2	0.5	0.33	-0.17	-0.34	-0.4	0	0	0	0	0	0
8/21/2024 10:32	22602	KIMB_T1	0	1	1	0	0.1	0.1	0.33	0.34	0	0	0	0	0	0
8/21/2024 10:32	28701	HAML_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 10:32	44801	EDAN_T2	136	120	-16	0.47	0.46	-0.01	-1.58	-1.54	0	0	0	0	0	0
8/21/2024 10:33	45802	HEGI_T2	0	27	27	0	0.44	0.44	1.45	1.47	0	0	0	0	0	0
8/21/2024 10:35	45802	HEGI_T2	0	27	27	0	0.44	0.44	1.45	1.47	0	0	0	0	0	0
8/21/2024 10:35	12601	MACA_T1	1	1	0	1.2	0.3	-0.9	0	0	0	0	0	0	0	0
8/21/2024 10:35	12605	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:37	64802	MONE_T2	52	32	-20	0.25	0.32	0.07	0.68	0.64	0	0	0	0	0	0
8/21/2024 10:37	64801	MONE_T2	5	1	-4	0.14	0.2	0.06	0	0	0	0	0	0	0	0
8/21/2024 10:38	64101	REFR_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
8/21/2024 10:40	57505	LAWN_T3	40	1	-39	0.18	0.1	-0.08	0.59	0.59	0	0	0	0	0	0
8/21/2024 10:40	43402	BENT_T1	0	0	0	0	0	0	-0.38	-0.37	1	1	0	600	600	0
8/21/2024 10:41	67605	WARW_T1	25	18	-7	0.63	0.76	0.13	-1.02	-1.04	0	0	0	0	0	0
8/21/2024 10:41	67603	WARW_T1	2	1	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
8/21/2024 10:41	20403	ASHF_T2	5	10	5	0.26	0.6	0.34	1.56	1.61	0	0	0	0	0	0
8/21/2024 10:41	20402	ASHF_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:41	20401	ASHF_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/21/2024 10:42	67502	WEWI_T2	10	6	-4	0.44	0.7	0.26	-0.2	-0.18	0	0	0	0	0	0
8/21/2024 10:42	62102	ELAN_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/21/2024 10:42	67605	WARW_T1	25	18	-7	0.63	0.76	0.13	-1.02	-1.04	0	0	0	0	0	0
8/21/2024 10:42	46004	BERW_T2	0	0	0	0	0	0	0.21	0.34	0	0	0	0	0	0
8/21/2024 10:42	62105	ELAN_T1	3	3	0	0.33	0.17	-0.16	0	0	0	0	0	0	0	0
8/21/2024 10:42	67603	WARW_T1	2	1	-1	0.25	0.3	0.05	0.04	0.07	0	0	0	0	0	0
8/21/2024 10:42	53601	DALM_T2	1	1	0	0.3	0.3	0	0.44	0.45	0	0	0	0	0	0
8/21/2024 10:42	67503	WEWI_T2	1	1	0	9.3	9.3	0	0	0	0	0	0	0	0	0
8/21/2024 10:43	62105	ELAN_T1	3	3	0	0.33	0.17	-0.16	0	0	0	0	0	0	0	0
8/21/2024 10:43	67505	WEWI_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/21/2024 10:43	67502	WEWI_T2	10	6	-4	0.44	0.7	0.26	-0.2	-0.18	0	0	0	0	0	0
8/21/2024 10:43	67501	WEWI_T1	3	3	0	1.03	1.2	0.17	-0.29	-0.34	0	0	0	0	0	0
8/21/2024 10:43	67503	WEWI_T2	1	1	0	9.3	9.3	0	0	0	0	0	0	0	0	0
8/21/2024 10:43	62102	ELAN_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/21/2024 10:43	51603	DUKE_T1	3	2	-1	0.27	0.5	0.23	-0.46	-0.42	0	0	0	0	0	0
8/21/2024 10:43	21501	CEAV_T2	0	0	0	0	0	0	0.54	0.36	1	1	0	1200	1200	0
8/21/2024 10:45	60101	COCA_T1	0	2	2	0	0.5	0.5	0.38	0.31	0	0	0	0	0	0
8/21/2024 10:45	40802	EXCH_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:45	40801	EXCH_T2	1	2	1	1	0.5	-0.5	-0.44	-0.42	1	1	0	1200	1200	0
8/21/2024 10:45	40201	BEGA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/21/2024 10:45	47202	FAXO_T2	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
8/21/2024 10:45	47001	HUGH_T2	3	3	0	7.23	7.2	-0.03	-0.12	-0.11	0	0	0	0	0	0
8/21/2024 10:46	40801	EXCH_T2	1	2	1	1	0.5	-0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/21/2024 10:46	40802	EXCH_T2	1	1	0	0.7	0.8	0.1	-0.27	-0.2	0	0	0	0	0	0
8/21/2024 10:47	40802	EXCH_T2	1	1	0	0.7	0.8	0.1	-0.27	-0.2	0	0	0	0	0	0
8/21/2024 10:47	47001	HUGH_T2	3	3	0	7.23	7.2	-0.03	-0.12	-0.11	0	0	0	0	0	0
8/21/2024 10:47	40801	EXCH_T2	1	2	1	1	0.5	-0.5	0	0	0	0	0	0	0	0
8/21/2024 10:47	60101	COCA_T1	0	2	2	0	0.5	0.5	0.38	0.31	0	0	0	0	0	0
8/21/2024 10:48	60101	COCA_T1	0	2	2	0	0.5	0.5	0.76	0.62	0	0	0	0	0	0
8/21/2024 10:48	13002	NBET_T2	1	2	1	0.1	0.35	0.25	-1.47	-1.43	2	2	0	2400	2400	0
8/21/2024 10:49	65205	PRIN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/21/2024 10:49	47901	HRDG_T1	0	0	0	0	0	0	1.83	1.92	0	0	0	0	0	0
8/21/2024 10:52	57205	ROSS_T1	2	1	-1	1	1.1	0.1	0.29	0.28	0	0	0	0	0	0
8/21/2024 10:53	65901	SAKR_T2	1	1	0	8.4	8.3	-0.1	-0.73	-0.76	1	1	0	900	900	0
8/21/2024 10:53	66502	SMAN_T2	1	2	1	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
8/21/2024 10:53	65904	SAKR_T2	4	1	-3	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
8/21/2024 10:53	66505	SMAN_T2	0	0	0	0	0	0	0.88	1.05	1	1	0	900	900	0
8/21/2024 10:53	55002	NEWP_T1	10	10	0	0.92	0.78	-0.14	0	0	0	0	0	0	0	0
8/21/2024 10:53	66501	SMAN_T2	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
8/21/2024 10:53	40101	HUNT_T2	3	3	0	0.23	0.33	0.1	0	0	0	0	0	0	0	0
8/21/2024 10:53	55001	NEWP_T1	0	1	1	0	0.5	0.5	0.03	0.02	0	0	0	0	0	0
8/21/2024 10:53	66504	SMAN_T2	1	2	1	0.8	0.45	-0.35	-0.43	-0.22	0	0	0	0	0	0
8/21/2024 10:54	59201	THOM_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/21/2024 10:54	14403	SSLA_T1	2	3	1	0.8	0.6	-0.2	0.1	0.07	0	0	0	0	0	0
8/21/2024 10:54	14404	SSLA_T1	14	14	0	1.07	1.13	0.06	0	0	0	0	0	0	0	0
8/21/2024 10:54	43801	SWIL_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
8/21/2024 10:54	55002	NEWP_T1	10	10	0	0.92	0.78	-0.14	-0.36	-0.4	0	0	0	0	0	0
8/21/2024 10:54	55001	NEWP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/21/2024 10:54	43802	SWIL_T1	0	1	1	0	0	0	-0.12	-0.12	1	1	0	600	600	0
8/21/2024 10:54	59202	THOM_T1	6	1	-5	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
8/21/2024 10:54	54201	PENN_T1	11	7	-4	0.68	0.54	-0.14	-0.83	-0.86	0	0	0	0	0	0
8/21/2024 10:54	14402	SSLA_T1	2	3	1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
8/21/2024 10:54	54203	PENN_T1	18	18	0	0.67	0.44	-0.23	0	0	0	0	0	0	0	0
8/21/2024 10:55	66502	SMAN_T2	1	2	1	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
8/21/2024 10:55	66504	SMAN_T2	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
8/21/2024 10:55	66501	SMAN_T2	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
8/21/2024 10:56	46301	ROHR_T1	4	3	-1	1.95	2.67	0.72	0	0	0	0	0	0	0	0
8/21/2024 10:56	46302	ROHR_T1	4	5	1	1.43	1.48	0.05	0.13	0.12	0	0	0	0	0	0
8/21/2024 10:58	65502	MOJO_T2	0	0	0	0	0	0	0.11	-0.06	0	0	0	0	0	0
8/21/2024 10:58	65503	MOJO_T2	2	2	0	0.2	0.55	0.35	0	0	0	0	0	0	0	0
8/21/2024 10:59	53601	DALM_T2	1	1	0	0.3	0.1	-0.2	0.45	0.49	0	0	0	0	0	0
8/21/2024 11:00	45901	AUBU_T1	0	0	0	0	0	0	1.89	1.87	0	0	0	0	0	0
8/21/2024 11:00	45902	AUBU_T1	0	0	0	0	0	0	-0.39	-0.45	1	1	0	600	600	0
8/21/2024 11:00	40901	JESH_T1	1	1	0	0.9	1.1	0.2	0.36	0.32	0	0	0	0	0	0
8/21/2024 11:01	41001	LAUR_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
8/21/2024 11:01	41002	LAUR_T2	1	1	0	1.9	1.8	-0.1	-0.91	-0.91	0	0	0	0	0	0
8/21/2024 11:02	17805	GILB_T2	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
8/21/2024 11:02	22805	HAUT_T2	0	0	0	0	0	0	-0.51	-0.42	0	0	0	0	0	0
8/21/2024 11:02	17804	GILB_T2	2	3	1	0.15	0.47	0.32	0	0	0	0	0	0	0	0
8/21/2024 11:02	41001	LAUR_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
8/21/2024 11:02	41002	LAUR_T2	1	1	0	1.9	1.8	-0.1	-0.91	-0.91	0	0	0	0	0	0
8/21/2024 11:03	10701	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 11:03	10705	CATA_T2	0	0	0	0	0	0	-1.2	-1.15	0	0	0	0	0	0
8/21/2024 11:03	63501	HEID_TBK1-2	53	56	3	1.44	1.26	-0.18	0.31	0.39	1	1	0	900	900	0
8/21/2024 11:04	44703	MUNC_T2	2	2	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/21/2024 11:04	44701	MUNC_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 11:04	13702	SCHN_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
8/21/2024 11:05	44703	MUNC_T2	2	2	0	0.5	0.3	-0.2	0.98	1.03	0	0	0	0	0	0
8/21/2024 11:05	44701	MUNC_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 11:06	26704	HEML_T2	0	0	0	0	0	0	-0.66	-0.66	1	1	0	1200	1200	0
8/21/2024 11:06	48302	ORWI_T2	2	2	0	0.55	0.5	-0.05	0.07	0.06	0	0	0	0	0	0
8/21/2024 11:10	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 11:10	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 11:11	60801	BUCK_T1	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
8/21/2024 11:15	16004	DORN_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
8/21/2024 11:15	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 11:15	58706	ROSE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/21/2024 11:15	58705	ROSE_T2	5	5	0	2.12	2.62	0.5	0	0	0	0	0	0	0	0
8/21/2024 11:15	58701	ROSE_T2	0	0	0	0	0	0	-0.16	-0.18	1	1	0	600	600	0
8/21/2024 11:18	64305	LINC_T1	0	1	1	0	0.2	0.2	0.18	0.02	0	0	0	0	0	0
8/21/2024 11:19	12604	MACA_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
8/21/2024 11:19	12601	MACA_T1	1	1	0	1.6	1	-0.6	0	0	0	0	0	0	0	0
8/21/2024 11:19	12606	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 11:19	12605	MACA_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
8/21/2024 11:21	15203	SFAR_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/21/2024 11:22	15603	NSTR_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
8/21/2024 11:22	15203	SFAR_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/21/2024 11:23	21701	SUBU_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
8/21/2024 11:23	21705	SUBU_T1	1	1	0	5.9	5.9	0	0.7	0.68	0	0	0	0	0	0
8/21/2024 11:24	42802	SELI_T1	0	2	2	0	0.2	0.2	-1.04	-0.98	1	1	0	900	900	0
8/21/2024 11:25	42802	SELI_T1	0	2	2	0	0.2	0.2	-2.08	-1.95	2	2	0	1800	1800	0
8/21/2024 11:25	14801	TREI_T2	48	50	2	0.25	0.29	0.04	0	0	0	0	0	0	0	0
8/21/2024 11:25	14802	TREI_T2	0	1	1	0	0.1	0.1	1.32	1.28	0	0	0	0	0	0
8/21/2024 11:26	42802	SELI_T1	0	2	2	0	0.2	0.2	-1.04	-0.98	1	1	0	900	900	0
8/21/2024 11:29	45501	DERR_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 11:29	46002	BERW_T2	0	1	1	0	0.9	0.9	-1.11	-1.12	1	1	0	900	900	0
8/21/2024 11:29	45502	DERR_T2	0	0	0	0	0	0	0.06	0.06	1	1	0	300	300	0
8/21/2024 11:29	46004	BERW_T2	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
8/21/2024 11:30	29402	BELT_T1	3	2	-1	3.03	8.2	5.17	0	0	0	0	0	0	0	0
8/21/2024 11:30	45901	AUBU_T1	0	0	0	0	0	0	1.76	1.58	0	0	0	0	0	0
8/21/2024 11:31	59201	THOM_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/21/2024 11:31	45501	DERR_T2	0	2	2	0	0.2	0.2	0.95	0.89	2	2	0	1800	1800	0
8/21/2024 11:31	59202	THOM_T1	1	4	3	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
8/21/2024 11:32	48302	ORWI_T2	2	2	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
8/21/2024 11:35	42001	MNVL_T2	192	216	24	0.47	0.54	0.07	0	0	0	0	0	0	0	0
8/21/2024 11:35	47401	PENS_T1	2	2	0	0.55	0.65	0.1	1.25	1.28	0	0	0	0	0	0
8/21/2024 11:35	47402	PENS_T1	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
8/21/2024 11:35	64305	LINC_T1	1	1	0	0.2	0.1	-0.1	0.02	0.17	0	0	0	0	0	0
8/21/2024 11:35	47403	PENS_T1	1	1	0	1.1	1.7	0.6	0	0	0	0	0	0	0	0
8/21/2024 11:35	42002	MNVL_T2	1	1	0	3.6	3.6	0	0.01	0.1	0	0	0	0	0	0
8/21/2024 11:36	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/21/2024 11:36	60101	COCA_T1	2	2	0	0.15	0.35	0.2	0.37	0.42	0	0	0	0	0	0
8/21/2024 11:36	65205	PRIN_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/21/2024 11:37	43202	MVIL_T2	0	0	0	0	0	0	-0.33	-0.37	0	0	0	0	0	0
8/21/2024 11:39	43202	MVIL_T2	0	0	0	0	0	0	-0.33	-0.37	0	0	0	0	0	0
8/21/2024 11:41	21701	SUBU_T1	1	1	0	6.6	6.6	0	0.74	0.74	0	0	0	0	0	0
8/21/2024 11:41	14102	TRUM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/21/2024 11:41	14101	TRUM_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
8/21/2024 11:41	21705	SUBU_T1	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
8/21/2024 11:42	16103	BING_T2	0	0	0	0	0	0	-1.34	-1.34	1	1	0	900	900	0
8/21/2024 11:42	61801	EELI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/21/2024 11:42	16102	BING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/21/2024 11:42	61803	EELI_T2	0	0	0	0	0	0	1.07	1.06	0	0	0	0	0	0
8/21/2024 11:44	63302	GREE_T1	0	0	0	0	0	0	0.78	0.74	0	0	0	0	0	0
8/21/2024 11:45	61501	EPET_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
8/21/2024 11:45	51603	DUKE_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
8/21/2024 11:45	61801	EELI_T2	2	1	-1	0.25	0.2	-0.05	-0.53	-0.52	1	1	0	600	600	0
8/21/2024 11:45	61506	EPET_T2	0	0	0	0	0	0	-0.38	-0.45	1	1	0	900	900	0
8/21/2024 11:46	47203	FAXO_T2	0	0	0	0	0	0	-1.49	-1.45	1	1	0	1200	1200	0
8/21/2024 11:46	53901	HALI_T2	3	3	0	0.53	0.53	0	-1.23	-1.17	0	0	0	0	0	0
8/21/2024 11:46	10705	CATA_T2	1	1	0	0.1	0.2	0.1	-1.09	-1.14	0	0	0	0	0	0
8/21/2024 11:46	53902	HALI_T2	3	3	0	2.23	2.4	0.17	-0.12	-0.15	0	0	0	0	0	0
8/21/2024 11:46	10701	CATA_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/21/2024 11:46	53903	HALI_T2	6	6	0	0.75	0.82	0.07	0	0	0	0	0	0	0	0
8/21/2024 11:47	53902	HALI_T2	3	3	0	2.23	2.4	0.17	0	0	0	0	0	0	0	0
8/21/2024 11:47	53903	HALI_T2	6	6	0	0.75	0.82	0.07	-0.06	-0.06	0	0	0	0	0	0
8/21/2024 11:47	53901	HALI_T2	3	3	0	0.53	0.53	0	0	0	0	0	0	0	0	0
8/21/2024 11:48	53902	HALI_T2	3	3	0	2.23	2.4	0.17	0	0	0	0	0	0	0	0
8/21/2024 11:48	53903	HALI_T2	6	6	0	0.75	0.82	0.07	0	0	0	0	0	0	0	0
8/21/2024 11:48	53901	HALI_T2	3	3	0	0.53	0.53	0	-2.45	-2.35	0	0	0	0	0	0
8/21/2024 11:48	63303	GREE_T1	0	0	0	0	0	0	-0.07	-0.11	2	2	0	1800	1800	0
8/21/2024 11:49	63602	LETO_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
8/21/2024 11:49	53902	HALI_T2	3	3	0	2.23	2.4	0.17	-0.12	-0.15	0	0	0	0	0	0
8/21/2024 11:49	63601	LETO_T1	0	0	0	0	0	0	1.22	1.23	2	2	0	1500	1500	0
8/21/2024 11:49	53901	HALI_T2	3	3	0	0.53	0.53	0	-3.68	-3.52	0	0	0	0	0	0
8/21/2024 11:49	53903	HALI_T2	6	6	0	0.75	0.82	0.07	0	0	0	0	0	0	0	0
8/21/2024 11:50	10705	CATA_T2	1	1	0	0.1	0.2	0.1	-1.09	-1.14	0	0	0	0	0	0
8/21/2024 11:50	63602	LETO_T1	1	1	0	0.8	0.6	-0.2	-0.14	-0.24	0	0	0	0	0	0
8/21/2024 11:50	10701	CATA_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/21/2024 11:51	15203	SFAR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 11:53	15203	SFAR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 11:54	59101	WALK_T2	0	1	1	0	0.4	0.4	2.23	1.88	0	0	0	0	0	0
8/21/2024 11:54	59102	WALK_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
8/21/2024 11:55	60301	TWVA_T2	1	0	-1	0.2	0	-0.2	-2.34	-2.39	1	1	0	1200	1200	0
8/21/2024 11:56	44301	BEAV_T2	1	3	2	1.1	0.23	-0.87	0	0	0	0	0	0	0	0
8/21/2024 11:56	67502	WEWI_T2	2	3	1	0.65	0.8	0.15	0	0	0	0	0	0	0	0
8/21/2024 11:56	67503	WEWI_T2	1	1	0	9	9	0	-0.07	-0.14	0	0	0	0	0	0
8/21/2024 11:56	58202	NEWV_T1	0	0	0	0	0	0	0.61	0.58	0	0	0	0	0	0
8/21/2024 11:56	44302	BEAV_T2	0	14	14	0	0.54	0.54	0	0	0	0	0	0	0	0
8/21/2024 11:57	51305	WIND_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/21/2024 11:57	51301	WIND_T1	1	2	1	0.2	0.25	0.05	-0.15	-0.21	0	0	0	0	0	0
8/21/2024 11:57	44301	BEAV_T2	1	3	2	1.1	0.23	-0.87	0.49	-0.35	2	2	0	1500	1500	0
8/21/2024 11:57	44302	BEAV_T2	0	14	14	0	0.54	0.54	0	0	0	0	0	0	0	0
8/21/2024 11:57	64101	REFR_T1	1	1	0	0.8	1.1	0.3	0	-0.01	0	0	0	0	0	0
8/21/2024 11:59	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 11:59	63304	GREE_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
8/21/2024 12:00	45501	DERR_T2	0	3	3	0	0.63	0.63	1.05	0.82	2	2	0	1800	1800	0
8/21/2024 12:00	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
8/21/2024 12:01	29402	BELT_T1	2	2	0	4.1	4	-0.1	0	0	0	0	0	0	0	0
8/21/2024 12:01	45502	DERR_T2	0	0	0	0	0	0	0.07	0.03	1	1	0	300	300	0
8/21/2024 12:01	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 12:01	45501	DERR_T2	0	3	3	0	0.63	0.63	0	0	0	0	0	0	0	0
8/21/2024 12:02	63304	GREE_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
8/21/2024 12:03	59001	MIFF_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
8/21/2024 12:03	59002	MIFF_T1	5	5	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/21/2024 12:03	59003	MIFF_T1	1	1	0	0.2	0.2	0	-0.39	0.48	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/21/2024 12:04	59003	MIFF_T1	1	1	0	0.2	0.2	0	-0.39	0.48	0	0	0	0	0	0
8/21/2024 12:04	59002	MIFF_T1	5	5	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/21/2024 12:04	59001	MIFF_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
8/21/2024 12:05	63501	HEID_TBK1-2	56	55	-1	1.52	1.25	-0.27	0.34	0.46	1	1	0	900	900	0
8/21/2024 12:06	48302	ORWI_T2	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
8/21/2024 12:06	24201	PROV_T3	1	1	0	7.3	6.6	-0.7	-1.22	-1.27	1	1	0	1200	1200	0
8/21/2024 12:06	48303	ORWI_T2	0	0	0	0	0	0	0.6	0.64	0	0	0	0	0	0
8/21/2024 12:06	24204	PROV_T3	1	1	0	6.6	6.3	-0.3	0	0	0	0	0	0	0	0
8/21/2024 12:11	44302	BEAV_T2	0	14	14	0	0.54	0.54	0	0	0	0	0	0	0	0
8/21/2024 12:11	21701	SUBU_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
8/21/2024 12:11	21705	SUBU_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
8/21/2024 12:11	44301	BEAV_T2	0	3	3	0	0.23	0.23	-0.35	-0.19	2	2	0	1500	1500	0
8/21/2024 12:11	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
8/21/2024 12:11	21704	SUBU_T1	0	0	0	0	0	0	-2.29	-2.12	2	2	0	2400	2400	0
8/21/2024 12:12	44301	BEAV_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
8/21/2024 12:12	12604	MACA_T1	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/21/2024 12:12	44302	BEAV_T2	0	14	14	0	0.54	0.54	0.31	0.28	0	0	0	0	0	0
8/21/2024 12:12	12601	MACA_T1	1	1	0	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
8/21/2024 12:13	13501	MCMI_T1	0	1	1	0	0.1	0.1	0.16	0.16	0	0	0	0	0	0
8/21/2024 12:13	13502	MCMI_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
8/21/2024 12:14	60801	BUCK_T1	2	8	6	0.15	0.28	0.13	-0.09	-0.1	0	0	0	0	0	0
8/21/2024 12:14	60803	BUCK_T1	0	8	8	0	0.21	0.21	0	0	0	0	0	0	0	0
8/21/2024 12:16	10705	CATA_T2	0	2	2	0	1.15	1.15	-1.15	-1.1	0	0	0	0	0	0
8/21/2024 12:16	40901	JESH_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
8/21/2024 12:16	60101	COCA_T1	1	2	1	0.2	0.6	0.4	0.34	0.14	0	0	0	0	0	0
8/21/2024 12:16	60803	BUCK_T1	7	8	1	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
8/21/2024 12:16	44302	BEAV_T2	14	4	-10	0.54	0.25	-0.29	0.31	0.28	0	0	0	0	0	0
8/21/2024 12:16	60801	BUCK_T1	7	6	-1	0.3	0.18	-0.12	-0.09	-0.1	0	0	0	0	0	0
8/21/2024 12:16	44301	BEAV_T2	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
8/21/2024 12:16	40902	JESH_T1	0	0	0	0	0	0	-0.61	-0.58	1	1	0	600	600	0
8/21/2024 12:17	13501	MCMI_T1	0	1	1	0	0.2	0.2	0.16	0.16	0	0	0	0	0	0
8/21/2024 12:17	64303	LINC_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
8/21/2024 12:17	45901	AUBU_T1	0	0	0	0	0	0	1.62	1.64	0	0	0	0	0	0
8/21/2024 12:17	66903	SHIL_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
8/21/2024 12:17	44302	BEAV_T2	14	4	-10	0.54	0.25	-0.29	0.31	0.28	0	0	0	0	0	0
8/21/2024 12:17	66901	SHIL_T2	0	0	0	0	0	0	-1.4	-1.41	1	1	0	1200	1200	0
8/21/2024 12:17	64305	LINC_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/21/2024 12:17	13502	MCMI_T1	1	1	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
8/21/2024 12:17	10805	CHHI_T2	1	1	0	8.6	8.6	0	-1.26	-1.27	2	2	0	1800	1800	0
8/21/2024 12:17	44301	BEAV_T2	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
8/21/2024 12:18	59301	MCAL_T1	5	6	1	0.46	0.57	0.11	-1.58	-1.49	1	1	0	600	600	0
8/21/2024 12:18	59302	MCAL_T1	2	3	1	0.65	0.47	-0.18	0	0	0	0	0	0	0	0
8/21/2024 12:18	13101	NHAM_T1	0	0	0	0	0	0	-2.52	-2.45	2	2	0	2400	2400	0
8/21/2024 12:19	44703	MUNC_T2	2	2	0	0.3	0.35	0.05	0.95	0.94	0	0	0	0	0	0
8/21/2024 12:19	44701	MUNC_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/21/2024 12:20	44701	MUNC_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/21/2024 12:20	44703	MUNC_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
8/21/2024 12:21	59302	MCAL_T1	2	3	1	0.65	0.47	-0.18	0	0	0	0	0	0	0	0
8/21/2024 12:21	59301	MCAL_T1	5	6	1	0.46	0.57	0.11	0	0	0	0	0	0	0	0
8/21/2024 12:22	59301	MCAL_T1	5	6	1	0.46	0.57	0.11	-1.49	-1.55	1	1	0	600	600	0
8/21/2024 12:22	59302	MCAL_T1	2	3	1	0.65	0.47	-0.18	0	0	0	0	0	0	0	0
8/21/2024 12:23	42201	SHEN_T2	0	2	2	0	0.55	0.55	0.18	0.2	1	1	0	600	600	0
8/21/2024 12:23	59202	THOM_T1	5	16	11	0.46	0.54	0.08	0	0	0	0	0	0	0	0
8/21/2024 12:24	42901	MIDD_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/21/2024 12:24	42903	MIDD_T2	2	2	0	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
8/21/2024 12:24	59202	THOM_T1	5	16	11	0.46	0.54	0.08	0	0	0	0	0	0	0	0
8/21/2024 12:24	42902	MIDD_T2	2	0	-2	0.2	0	-0.2	0.35	0.33	0	0	0	0	0	0
8/21/2024 12:26	60201	ATGL_T2	1	0	-1	0.2	0	-0.2	0.01	0.06	0	0	0	0	0	0
8/21/2024 12:27	14802	TREI_T2	3	2	-1	0.27	0.4	0.13	0	0	0	0	0	0	0	0
8/21/2024 12:27	61501	EPET_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
8/21/2024 12:27	42802	SELI_T1	1	1	0	0.3	1	0.7	-1.06	-0.93	1	1	0	900	900	0
8/21/2024 12:27	61504	EPET_T2	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
8/21/2024 12:27	14801	TREI_T2	11	10	-1	0.59	0.59	0	-0.31	-0.25	0	0	0	0	0	0
8/21/2024 12:28	59202	THOM_T1	5	16	11	0.46	0.54	0.08	0	0	0	0	0	0	0	0
8/21/2024 12:28	67401	WAKE_T2	4	5	1	0.93	0.68	-0.25	-0.96	-0.92	0	0	0	0	0	0
8/21/2024 12:28	61504	EPET_T2	0	0	0	0	0	0	-0.57	-0.53	0	0	0	0	0	0
8/21/2024 12:28	14801	TREI_T2	11	10	-1	0.59	0.59	0	-0.31	-0.25	0	0	0	0	0	0
8/21/2024 12:28	14802	TREI_T2	3	2	-1	0.27	0.4	0.13	0	0	0	0	0	0	0	0
8/21/2024 12:28	61501	EPET_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
8/21/2024 12:29	40201	BEGA_T2	2	1	-1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
8/21/2024 12:30	54201	PENN_T1	3	5	2	1.37	0.88	-0.49	-0.83	-0.85	0	0	0	0	0	0
8/21/2024 12:30	54203	PENN_T1	18	18	0	0.24	0.28	0.04	0	0	0	0	0	0	0	0
8/21/2024 12:31	62604	ENGL_T1	0	0	0	0	0	0	-0.64	-0.68	1	1	0	600	600	0
8/21/2024 12:31	62602	ENGL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/21/2024 12:31	13503	MCMI_T2	2	9	7	0.5	0.39	-0.11	-0.01	-0.01	0	0	0	0	0	0
8/21/2024 12:31	62607	ENGL_T1	0	2	2	0	0.3	0.3	-0.71	-0.7	0	0	0	0	0	0
8/21/2024 12:32	11205	ELHE_T1	1	1	0	3.4	0	-3.4	-0.48	-0.54	1	1	0	1200	1200	0
8/21/2024 12:32	50201	HARR_T3	0	0	0	0	0	0	0.96	1.02	0	0	0	0	0	0
8/21/2024 12:32	50105	HARR_T3	6	0	0	5.73	5.78	0.05	0	0	0	0	0	0	0	0
8/21/2024 12:32	64305	LINC_T1	0	0	0	0	0	0	-0.02	0.03	0	0	0	0	0	0
8/21/2024 12:32	50103	HARR_T3	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
8/21/2024 12:32	42802	SELI_T1	1	1	0	1	0.9	-0.1	-1.06	-0.93	1	1	0	900	900	0
8/21/2024 12:32	50107	HARR_T3	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0	0
8/21/2024 12:33	67703	WERN_T2	1	1	0	0.2	0.7	0.5	-0.01	-0.01	0	0	0	0	0	0
8/21/2024 12:33	67702	WERN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/21/2024 12:33	40201	BEGA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/21/2024 12:35	42901	MIDD_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/21/2024 12:35	65503	MOJO_T2	8	5	-3	0.59	0.58	-0.01	-0.76	-0.74	1	1	0	900	900	0
8/21/2024 12:35	42903	MIDD_T2	2	2	0	0.65	0.55	-0.1	1.18	0.71	0	1	1	0	1200	1200
8/21/2024 12:36	42201	SHEN_T2	2	1	-1	0.55	0.5	-0.05	0.2	0.18	1	1	0	600	600	0
8/21/2024 12:36	42802	SELI_T1	1	0	-1	1	0.9	-0.1	-0.93	-0.87	1	1	0	900	900	0
8/21/2024 12:37	54601	SUMM_T2	0	0	0	0	0	0	-1.68	-1.63	2	2	0	2100	2100	0
8/21/2024 12:37	64305	LINC_T1	0	0	0	0	0	0	0.03	-0.03	0	0	0	0	0	0
8/21/2024 12:37	54603	SUMM_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 12:38	54601	SUMM_T2	0	0	0	0	0	0	-1.68	-1.63	2	2	0	2100	2100	0
8/21/2024 12:38	54603	SUMM_T2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 12:38	27504	WEIS_T1	0	0	0	0	0	0	-0.79	-0.76	0	0	0	0	0	0
8/21/2024 12:38	42501	ALTA_T2	0	1	1	0	0.2	0.2	-1.07	-1.08	1	1	0	600	600	0
8/21/2024 12:39	54603	SUMM_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 12:39	54601	SUMM_T2	0	0	0	0	0	0	-1.68	-1.63	2	2	0	2100	2100	0
8/21/2024 12:40	54601	SUMM_T2	0	0	0	0	0	0	-1.68	-1.63	2	2	0	2100	2100	0
8/21/2024 12:40	53901	HALI_T2	2	3	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/21/2024 12:40	53902	HALI_T2	3	3	0	1.77	2.23	0.46	-0.12	-0.12	0	0	0	0	0	0
8/21/2024 12:40	67602	WARW_T2	0	0	0	0	0	0	1.5	1.45	1	1	0	300	300	0
8/21/2024 12:40	53903	HALI_T2	4	7	3	0.5	0.76	0.26	0	0	0	0	0	0	0	0
8/21/2024 12:40	14801	TREI_T2	8	8	0	0.55	0.69	0.14	0	0	0	0	0	0	0	0
8/21/2024 12:40	14802	TREI_T2	2	0	-2	0.4	0	-0.4	0.63	0.66	0	0	0	0	0	0
8/21/2024 12:40	54603	SUMM_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 12:41	67502	WEWI_T2	3	5	2	0.67	0.7	0.03	0	0	0	0	0	0	0	0
8/21/2024 12:41	24801	VALM_T1	1	1	0	0.7	0.7	0	-0.23	-0.24	0	0	0	0	0	0
8/21/2024 12:41	67603	WARW_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/21/2024 12:41	67604	WARW_T1	0	0	0	0	0	0	0.18	0.11	0	0	0	0	0	0
8/21/2024 12:41	59102	WALK_T2	1	0	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
8/21/2024 12:41	59101	WALK_T2	1	0	-1	0.5	0	-0.5	6.59	7.05	0	0	0	0	0	0
8/21/2024 12:41	67605	WARW_T1	15	14	-1	0.59	0.48	-0.11	0	0	0	0	0	0	0	0
8/21/2024 12:41	67503	WEWI_T2	1	1	0	8.5	8.5	0	-0.04	0.05	0	0	0	0	0	0
8/21/2024 12:42	43506	WWIL_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/21/2024 12:42	67602	WARW_T2	0	0	0	0	0	0	1.5	1.45	1	1	0	300	300	0
8/21/2024 12:42	43504	WWIL_T1	3	0	-3	0.17	0	-0.17	0.62	0.68	0	0	0	0	0	0
8/21/2024 12:42	43505	WWIL_T1	1	1	0	2.7	2.5	-0.2	0	0	0	0	0	0	0	0
8/21/2024 12:42	59102	WALK_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
8/21/2024 12:42	59101	WALK_T2	1	0	-1	0.5	0	-0.5	2.2	2.35	0	0	0	0	0	0
8/21/2024 12:43	44203	POIN_T2	0	3	3	0	0	0	-0.23	-0.21	2	2	0	2100	2100	0
8/21/2024 12:43	14204	EALL_T2	0	1	1	0	0.1	0.1	0.48	0.53	0	0	0	0	0	0
8/21/2024 12:43	16006	DORN_T2	0	0	0	0	0	0	0.89	0.88	0	0	0	0	0	0
8/21/2024 12:44	67603	WARW_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/21/2024 12:44	11102	EGYP_T1	0	3	3	0	0.77	0.77	0	0	0	0	0	0	0	0
8/21/2024 12:44	67602	WARW_T2	0	0	0	0	0	0	1.5	1.45	1	1	0	300	300	0
8/21/2024 12:44	44201	POIN_T1	0	0	0	0	0	0	-1.14	-0.84	2	2	0	2100	2100	0
8/21/2024 12:44	64302	LINC_T2	0	0	0	0	0	0	1.13	1.2	0	0	0	0	0	0
8/21/2024 12:44	67604	WARW_T1	0	0	0	0	0	0	0.18	0.11	0	0	0	0	0	0
8/21/2024 12:44	11104	EGYP_T1	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
8/21/2024 12:44	66504	SMAN_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
8/21/2024 12:44	64304	LINC_T2	2	1	-1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
8/21/2024 12:44	66501	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 12:44	54504	ENOL_T2	0	0	0	0	0	0	-1.08	-1.07	1	1	0	600	600	0
8/21/2024 12:44	67605	WARW_T1	15	14	-1	0.59	0.48	-0.11	0	0	0	0	0	0	0	0
8/21/2024 12:44	14204	EALL_T2	0	1	1	0	0.1	0.1	0.48	0.53	0	0	0	0	0	0
8/21/2024 12:44	66502	SMAN_T2	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
8/21/2024 12:44	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 12:44	54505	ENOL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/21/2024 12:45	14204	EALL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/21/2024 12:45	11202	ELHE_T2	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
8/21/2024 12:45	61504	EPET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 12:45	46803	HEPB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/21/2024 12:45	17401	FOHI_T1	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
8/21/2024 12:45	67602	WARW_T2	0	0	0	0	0	0	1.5	1.45	1	1	0	300	300	0
8/21/2024 12:45	61501	EPET_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
8/21/2024 12:45	46801	HEPB_T2	2	2	0	0.95	0.85	-0.1	0.73	0.73	0	0	0	0	0	0
8/21/2024 12:46	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 12:47	66502	SMAN_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
8/21/2024 12:47	11903	ETEX_T1	1	1	0	0.3	0.8	0.5	0.65	0.65	0	0	0	0	0	0
8/21/2024 12:47	40101	HUNT_T2	0	1	1	0	0.2	0.2	-0.35	-0.38	0	0	0	0	0	0
8/21/2024 12:47	66504	SMAN_T2	0	1	1	0	0.9	0.9	-0.17	-0.01	0	0	0	0	0	0
8/21/2024 12:47	66501	SMAN_T2	2	2	0	0.15	0.55	0.4	0	0	0	0	0	0	0	0
8/21/2024 12:47	44201	POIN_T1	0	0	0	0	0	0	-1.14	-0.84	2	2	0	2100	2100	0
8/21/2024 12:48	46801	HEPB_T2	2	2	0	0.95	0.85	-0.1	0	0	0	0	0	0	0	0
8/21/2024 12:48	46803	HEPB_T2	1	0	-1	0.2	0	-0.2	0.57	0.59	0	0	0	0	0	0
8/21/2024 12:48	26803	JAFR_T1	0	1	1	0	0.1	0.1	-0.27	-0.24	1	1	0	900	900	0
8/21/2024 12:48	13704	SCHN_T2	1	0	-1	0.1	0	-0.1	0.04	0.05	0	0	0	0	0	0
8/21/2024 12:49	57304	MOAL_T2	0	0	0	0	0	0	-0.13	0.01	0	0	0	0	0	0
8/21/2024 12:49	57306	MOAL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 12:49	57302	MOAL_T2	0	0	0	0	0	0	-1.43	-1.29	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/21/2024 12:49	64903	MILL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 12:49	57303	MOAL_T2	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
8/21/2024 12:49	64902	MILL_T2	0	0	0	0	0	0	-0.15	-0.13	0	0	0	0	0	0
8/21/2024 12:49	63601	LETO_T1	0	0	0	0	0	0	1.16	1.23	2	2	0	1500	1500	0
8/21/2024 12:49	13702	SCHN_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
8/21/2024 12:49	47901	HRDG_T1	0	0	0	0	0	0	2.02	1.81	0	0	0	0	0	0
8/21/2024 12:49	46803	HEPB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/21/2024 12:49	25402	LAHA_T2	0	0	0	0	0	0	-0.14	-0.07	0	0	0	0	0	0
8/21/2024 12:49	46801	HEPB_T2	2	2	0	0.95	0.85	-0.1	0.73	0.73	0	0	0	0	0	0
8/21/2024 12:49	13705	SCHN_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/21/2024 12:50	16402	MOPO_T1	4	1	-3	1.73	0	-1.73	0	0	0	0	0	0	0	0
8/21/2024 12:50	16401	MOPO_T1	1	0	-1	0.5	0	-0.5	0.22	0.23	0	0	0	0	0	0
8/21/2024 12:51	43201	MVIL_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
8/21/2024 12:51	65205	PRIN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/21/2024 12:51	43202	MVIL_T2	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
8/21/2024 12:52	16401	MOPO_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/21/2024 12:52	47502	NECO_T1	3	4	1	0.27	0.25	-0.02	1.03	1.03	0	0	0	0	0	0
8/21/2024 12:52	16402	MOPO_T1	4	1	-3	1.73	0	-1.73	0.72	0.52	0	0	0	0	0	0
8/21/2024 12:53	49803	UNIV_T1	2	3	1	2.45	1.73	-0.72	-2.09	-2.07	0	0	0	0	0	0
8/21/2024 12:53	15201	SFAR_T1	0	0	0	0	0	0	0.05	0.14	2	2	0	1800	1800	0
8/21/2024 12:55	54206	PENN_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
8/21/2024 12:56	49803	UNIV_T1	2	3	1	2.45	1.73	-0.72	-2.09	-2.07	0	0	0	0	0	0
8/21/2024 12:57	67602	WARW_T2	0	0	0	0	0	0	1.45	1.48	1	1	0	300	300	0
8/21/2024 12:57	54206	PENN_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
8/21/2024 12:57	42501	ALTA_T2	1	0	-1	0.2	0	-0.2	-1.08	-1.03	1	1	0	600	600	0
8/21/2024 12:57	57004	WHHI_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
8/21/2024 12:58	67602	WARW_T2	0	0	0	0	0	0	2.89	2.97	2	2	0	600	600	0
8/21/2024 12:58	42802	SELI_T1	1	1	0	0.5	0.9	0.4	-2.62	-3.03	3	3	0	2700	2700	0
8/21/2024 12:58	57002	WHHI_T2	0	0	0	0	0	0	-2.22	-2.18	2	2	0	2400	2400	0
8/21/2024 12:59	44302	BEAV_T2	2	3	1	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
8/21/2024 12:59	67503	WEWI_T2	1	1	0	8.5	8.4	-0.1	0.09	0	0	0	0	0	0	0
8/21/2024 12:59	44301	BEAV_T2	1	2	1	0.4	0.85	0.45	0	0	0	0	0	0	0	0
8/21/2024 12:59	45501	DERR_T2	1	1	0	0.5	0	-0.5	0.88	0.98	2	2	0	1800	1800	0
8/21/2024 12:59	61703	ELIZ_T1	0	0	0	0	0	0	-2.63	-2.31	2	2	0	2100	2100	0
8/21/2024 12:59	67502	WEWI_T2	5	3	-2	0.62	0.77	0.15	0	0	0	0	0	0	0	0
8/21/2024 12:59	42802	SELI_T1	1	1	0	0.5	0.9	0.4	-1.75	-2.02	2	2	0	1800	1800	0
8/21/2024 12:59	61701	ELIZ_T1	1	2	1	3.3	2.2	-1.1	0	0	0	0	0	0	0	0
8/21/2024 13:00	16005	DORN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/21/2024 13:00	42802	SELI_T1	1	1	0	0.9	0.5	-0.4	-1.75	-2.02	2	2	0	1800	1800	0
8/21/2024 13:00	66502	SMAN_T2	1	5	4	0.2	0.3	0.1	0.41	0.36	0	0	0	0	0	0
8/21/2024 13:00	67501	WEWI_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
8/21/2024 13:00	42801	SELI_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
8/21/2024 13:00	66504	SMAN_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/21/2024 13:00	67602	WARW_T2	0	0	0	0	0	0	1.45	1.48	1	1	0	300	300	0
8/21/2024 13:00	16001	DORN_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
8/21/2024 13:00	17805	GILB_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
8/21/2024 13:00	17803	GILB_T2	2	4	2	0.3	0.43	0.13	0	0	0	0	0	0	0	0
8/21/2024 13:00	17804	GILB_T2	3	3	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/21/2024 13:00	61505	EPET_T1	0	0	0	0	0	0	0.32	0.36	0	0	0	0	0	0
8/21/2024 13:00	66501	SMAN_T2	2	2	0	0.2	0.55	0.35	0	0	0	0	0	0	0	0
8/21/2024 13:00	16004	DORN_T1	1	2	1	1	0.5	-0.5	0	0	0	0	0	0	0	0
8/21/2024 13:00	67505	WEWI_T1	0	0	0	0	0	0	-0.05	-0.04	1	1	0	900	900	0
8/21/2024 13:01	50107	HARR_T3	1	1	0	7.1	7.2	0.1	0	0	0	0	0	0	0	0
8/21/2024 13:01	66502	SMAN_T2	1	5	4	0.2	0.3	0.1	0.41	0.36	0	0	0	0	0	0
8/21/2024 13:01	50105	HARR_T3	7	7	0	5.71	5.83	0.12	0	0	0	0	0	0	0	0
8/21/2024 13:01	61703	ELIZ_T1	0	0	0	0	0	0	-2.63	-2.31	2	2	0	2100	2100	0
8/21/2024 13:01	66504	SMAN_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/21/2024 13:01	67502	WEWI_T2	3	4	1	0.7	0.43	-0.27	0	0	0	0	0	0	0	0
8/21/2024 13:01	17804	GILB_T2	3	3	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/21/2024 13:01	17805	GILB_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
8/21/2024 13:01	50103	HARR_T3	2	2	0	0.2	0.15	-0.05	0	0	1	1	0	1200	1200	0
8/21/2024 13:01	17803	GILB_T2	2	4	2	0.3	0.43	0.13	0	0	0	0	0	0	0	0
8/21/2024 13:01	66501	SMAN_T2	2	2	0	0.2	0.55	0.35	0	0	0	0	0	0	0	0
8/21/2024 13:01	67503	WEWI_T2	1	1	0	8.4	8.2	-0.2	0.05	0	0	0	0	0	0	0
8/21/2024 13:01	61701	ELIZ_T1	2	2	0	2.2	1.6	-0.6	0	0	0	0	0	0	0	0
8/21/2024 13:01	42801	SELI_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
8/21/2024 13:01	45501	DERR_T2	1	2	1	0.2	0.45	0.25	0.88	0.98	2	2	0	1800	1800	0
8/21/2024 13:01	42802	SELI_T1	1	1	0	0.9	0.5	-0.4	-0.87	-1.01	1	1	0	900	900	0
8/21/2024 13:02	61501	EPET_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
8/21/2024 13:02	61504	EPET_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
8/21/2024 13:02	11901	ETEX_T2	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
8/21/2024 13:02	11904	ETEX_T2	1	1	0	1.4	0.7	-0.7	0.37	0.33	0	0	0	0	0	0
8/21/2024 13:03	17803	GILB_T2	2	4	2	0.3	0.43	0.13	0	0	0	0	0	0	0	0
8/21/2024 13:03	50501	MECH_T1	4	4	0	0.6	0.38	-0.22	-0.51	-0.45	0	0	0	0	0	0
8/21/2024 13:03	61702	ELIZ_T2	0	1	1	0	0.2	0.2	-1.69	-1.67	2	2	0	1500	1500	0
8/21/2024 13:03	17805	GILB_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
8/21/2024 13:03	20601	GRWO_T2	7	4	-3	0.5	0.4	-0.1	1.34	1.36	0	0	0	0	0	0
8/21/2024 13:03	17804	GILB_T2	3	3	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/21/2024 13:03	50502	MECH_T1	1	1	0	2	1.6	-0.4	0	0	0	0	0	0	0	0
8/21/2024 13:04	62602	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/21/2024 13:04	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 13:04	66505	SMAN_T2	0	0	0	0	0	0	0.94	1.18	1	1	0	900	900	0
8/21/2024 13:04	24202	PROV_T4	1	0	-1	3.8	0	-3.8	-0.39	-0.43	1	1	0	1200	1200	0
8/21/2024 13:04	62606	ENGL_T1	0	0	0	0	0	0	-0.79	-0.58	1	1	0	900	900	0
8/21/2024 13:04	61701	ELIZ_T1	2	2	0	2.2	1.6	-0.6	0	0	0	0	0	0	0	0
8/21/2024 13:04	54201	PENN_T1	5	3	-2	0.88	1.23	0.35	-0.86	-0.85	0	0	0	0	0	0
8/21/2024 13:04	66502	SMAN_T2	1	5	4	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/21/2024 13:04	41902	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 13:04	40101	HUNT_T2	0	1	1	0	0.2	0.2	-0.38	-0.32	0	0	0	0	0	0
8/21/2024 13:04	61703	ELIZ_T1	0	0	0	0	0	0	-2.63	-2.31	2	2	0	2100	2100	0
8/21/2024 13:04	54203	PENN_T1	18	11	-7	0.28	0.22	-0.06	0	0	0	0	0	0	0	0
8/21/2024 13:04	66504	SMAN_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/21/2024 13:04	62607	ENGL_T1	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/21/2024 13:04	66501	SMAN_T2	2	2	0	0.2	0.55	0.35	0	0	0	0	0	0	0	0
8/21/2024 13:05	65802	RTWN_T2	1	0	-1	1	0	-1	-0.09	-0.04	0	0	0	0	0	0
8/21/2024 13:06	47401	PENS_T1	2	1	-1	0.15	0.5	0.35	1.4	1.46	0	0	0	0	0	0
8/21/2024 13:06	47402	PENS_T1	1	4	3	0.6	0.38	-0.22	0	0	0	0	0	0	0	0
8/21/2024 13:06	51201	MTON_T1	0	0	0	0	0	0	0.07	0.1	0	0	0	0	0	0
8/21/2024 13:06	47403	PENS_T1	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
8/21/2024 13:07	43202	MVIL_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
8/21/2024 13:07	10705	CATA_T2	2	3	1	1.35	0.43	-0.92	0	0	0	0	0	0	0	0
8/21/2024 13:07	10701	CATA_T2	0	0	0	0	0	0	-0.42	-0.47	1	1	0	1200	1200	0
8/21/2024 13:07	43201	MVIL_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/21/2024 13:08	55101	WERT_T1	0	0	0	0	0	0	-1.3	-1.35	3	3	0	2400	2400	0
8/21/2024 13:10	42002	MNVL_T2	1	1	0	4.1	4	-0.1	0	0	0	0	0	0	0	0
8/21/2024 13:10	58202	NEWV_T1	0	0	0	0	0	0	0.69	-0.01	0	0	0	0	0	0
8/21/2024 13:10	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 13:10	15702	TANN_T2	2	1	-1	0.35	1.1	0.75	-0.27	-0.25	0	0	0	0	0	0
8/21/2024 13:10	13905	SEID_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
8/21/2024 13:10	15703	TANN_T2	1	1	0	6.1	5.8	-0.3	0	0	0	0	0	0	0	0
8/21/2024 13:10	42001	MNVL_T2	193	207	14	0.48	0.55	0.07	-0.15	-0.19	0	0	0	0	0	0
8/21/2024 13:11	42902	MIDD_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
8/21/2024 13:11	42903	MIDD_T2	2	2	0	0.55	0.8	0.25	0.68	0.75	1	1	0	1200	1200	0
8/21/2024 13:13	42802	SELI_T1	1	1	0	0.9	0.5	-0.4	-1.01	-1.01	1	1	0	900	900	0
8/21/2024 13:13	11301	EMMA_T1	0	0	0	0	0	0	-0.6	-0.52	0	0	0	0	0	0
8/21/2024 13:13	11302	EMMA_T1	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
8/21/2024 13:13	67602	WARW_T2	0	0	0	0	0	0	1.48	0.96	1	2	1	300	1500	1200
8/21/2024 13:13	53601	DALM_T2	1	1	0	0.1	0.7	0.6	0.51	0.38	0	0	0	0	0	0
8/21/2024 13:13	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 13:13	42201	SHEN_T2	0	1	1	0	1	1	0.21	0.18	1	1	0	600	600	0
8/21/2024 13:13	11303	EMMA_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
8/21/2024 13:13	21206	ECAR_T2	2	2	0	4.3	4.3	0	0.41	0.4	0	0	0	0	0	0
8/21/2024 13:13	42801	SELI_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
8/21/2024 13:14	63303	GREE_T1	0	0	0	0	0	0	0.2	0.11	2	2	0	1800	1800	0
8/21/2024 13:14	42801	SELI_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
8/21/2024 13:14	42802	SELI_T1	1	1	0	0.9	0.5	-0.4	-1.01	-1.01	1	1	0	900	900	0
8/21/2024 13:14	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/21/2024 13:14	11601	CEAL_T1	0	2	2	0	0.5	0.5	0	0	1	1	0	1200	1200	0
8/21/2024 13:14	54505	ENOL_T2	2	0	-2	0.25	0	-0.25	-1.23	-1.23	1	1	0	600	600	0
8/21/2024 13:14	63304	GREE_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/21/2024 13:14	67503	WEWI_T2	1	1	0	8.4	8.2	-0.2	0	0.06	0	0	0	0	0	0
8/21/2024 13:14	67502	WEWI_T2	3	4	1	0.7	0.43	-0.27	0	0	0	0	0	0	0	0
8/21/2024 13:15	61101	BERK_T5	4	0	-4	0.18	0	-0.18	0	0	0	0	0	0	0	0
8/21/2024 13:15	16004	DORN_T1	2	0	-2	0.5	0	-0.5	-0.67	-0.62	1	1	0	1200	1200	0
8/21/2024 13:15	63804	HEMP_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
8/21/2024 13:15	44302	BEAV_T2	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0	0
8/21/2024 13:15	62602	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 13:15	16005	DORN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/21/2024 13:15	63803	HEMP_T1	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
8/21/2024 13:15	44301	BEAV_T2	2	6	4	0.85	0.48	-0.37	0	0	0	0	0	0	0	0
8/21/2024 13:15	62607	ENGL_T1	1	1	0	0.4	0	-0.4	-0.66	-0.66	0	0	0	0	0	0
8/21/2024 13:15	61103	BERK_T5	2	1	-1	0.2	0.2	0	0.21	0.23	0	0	0	0	0	0
8/21/2024 13:15	42802	SELI_T1	1	1	0	0.5	0.3	-0.2	-1.01	-1.01	1	1	0	900	900	0
8/21/2024 13:15	63801	HEMP_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
8/21/2024 13:16	11402	FARM_T1	3	3	0	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
8/21/2024 13:16	41502	FAIR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/21/2024 13:16	45902	AUBU_T1	0	0	0	0	0	0	-0.38	-0.46	1	1	0	600	600	0
8/21/2024 13:16	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 13:16	17804	GILB_T2	3	2	-1	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
8/21/2024 13:16	52403	GRPA_T2	2	1	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/21/2024 13:16	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.64	-0.71	0	0	0	0	0	0
8/21/2024 13:16	17805	GILB_T2	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
8/21/2024 13:16	17803	GILB_T2	3	3	0	0.43	0.47	0.04	0	0	0	0	0	0	0	0
8/21/2024 13:16	11406	FARM_T1	1	0	-1	3.2	0	-3.2	0	0	0	0	0	0	0	0
8/21/2024 13:16	41501	FAIR_T2	0	0	0	0	0	0	-0.8	-0.79	1	1	0	600	600	0
8/21/2024 13:16	11405	FARM_T1	0	2	2	0	0.15	0.15	-0.78	-0.73	1	1	0	1200	1200	0
8/21/2024 13:16	52402	GRPA_T2	10	49	39	0.48	0.31	-0.17	-0.85	-0.84	0	0	0	0	0	0
8/21/2024 13:17	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.32	-0.35	0	0	0	0	0	0
8/21/2024 13:17	16004	DORN_T1	2	0	-2	0.5	0	-0.5	-0.67	-0.62	1	1	0	1200	1200	0
8/21/2024 13:17	66502	SMAN_T2	2	5	3	0.3	0.3	0	0	0	0	0	0	0	0	0
8/21/2024 13:17	13604	RICH_T2	0	0	0	0	0	0	-1.37	-1.28	3	3	0	2100	2100	0
8/21/2024 13:17	16005	DORN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/21/2024 13:17	13704	SCHN_T2	0	1	1	0	0.1	0.1	0.13	0.2	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/21/2024 13:17	66504	SMAN_T2	0	1	1	0	0.2	0.2	-0.09	-0.18	0	0	0	0	0	0
8/21/2024 13:17	67602	WARW_T2	0	0	0	0	0	0	1.48	0.96	1	2	1	300	1500	1200
8/21/2024 13:17	66501	SMAN_T2	2	2	0	0.55	0.35	-0.2	0	0	0	0	0	0	0	0
8/21/2024 13:18	52401	GRPA_T2	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
8/21/2024 13:18	46802	HEPB_T1	1	1	0	0.8	1	0.2	-0.19	-0.19	0	0	0	0	0	0
8/21/2024 13:18	10705	CATA_T2	3	1	-2	0.43	0.5	0.07	-3.28	-3.31	0	0	0	0	0	0
8/21/2024 13:18	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 13:18	52403	GRPA_T2	2	1	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/21/2024 13:18	45802	HEGI_T2	2	1	-1	0.4	0.1	-0.3	1.6	1.4	0	0	0	0	0	0
8/21/2024 13:18	13704	SCHN_T2	0	1	1	0	0.1	0.1	0.13	0.2	0	0	0	0	0	0
8/21/2024 13:18	52402	GRPA_T2	10	49	39	0.48	0.31	-0.17	0	0	0	0	0	0	0	0
8/21/2024 13:20	46802	HEPB_T1	1	1	0	0.8	1	0.2	-0.19	-0.19	0	0	0	0	0	0
8/21/2024 13:20	52403	GRPA_T2	2	1	-1	0.4	0.5	0.1	0.2	0.17	0	0	0	0	0	0
8/21/2024 13:20	64902	MILL_T2	0	0	0	0	0	0	-0.15	-0.1	0	0	0	0	0	0
8/21/2024 13:20	52402	GRPA_T2	10	49	39	0.48	0.31	-0.17	-0.85	-0.84	0	0	0	0	0	0
8/21/2024 13:20	13704	SCHN_T2	0	1	1	0	0.1	0.1	0.13	0.2	0	0	0	0	0	0
8/21/2024 13:21	52403	GRPA_T2	2	1	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/21/2024 13:21	52402	GRPA_T2	10	49	39	0.48	0.31	-0.17	-0.85	-0.84	0	0	0	0	0	0
8/21/2024 13:23	41001	LAUR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 13:23	10705	CATA_T2	3	1	-2	0.43	0.5	0.07	-2.21	-2.13	0	0	0	0	0	0
8/21/2024 13:23	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 13:23	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 13:23	58402	MORO_T1	0	0	0	0	0	0	-0.1	-0.09	2	2	0	1500	1500	0
8/21/2024 13:23	41002	LAUR_T2	1	1	0	1.7	2.1	0.4	-0.89	-0.89	0	0	0	0	0	0
8/21/2024 13:23	57506	LAWN_T3	0	0	0	0	0	0	0.72	0.74	1	1	0	600	600	0
8/21/2024 13:24	54601	SUMM_T2	0	0	0	0	0	0	-1.61	-1.66	2	2	0	2100	2100	0
8/21/2024 13:24	54603	SUMM_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 13:25	16302	ALPA_T2	6	2	-4	0.5	0.3	-0.2	-0.33	-0.39	0	0	0	0	0	0
8/21/2024 13:25	20403	ASHF_T2	4	8	4	0.38	0.53	0.15	1.65	1.7	0	0	0	0	0	0
8/21/2024 13:25	20401	ASHF_T2	1	3	2	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
8/21/2024 13:26	16302	ALPA_T2	6	2	-4	0.5	0.3	-0.2	-1.32	-1.56	0	0	0	0	0	0
8/21/2024 13:28	53601	DALM_T2	1	1	0	0.5	0.7	0.2	0.38	0.47	0	0	0	0	0	0
8/21/2024 13:28	51305	WIND_T1	1	1	0	0.7	0.8	0.1	0.27	0.3	0	0	0	0	0	0
8/21/2024 13:28	13502	MCMI_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/21/2024 13:28	13501	MCMI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/21/2024 13:28	51301	WIND_T1	3	4	1	0.63	0.68	0.05	0	0	0	0	0	0	0	0
8/21/2024 13:28	51303	WIND_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/21/2024 13:29	42802	SELI_T1	1	1	0	0.5	0.3	-0.2	-1.01	-1.02	1	1	0	900	900	0
8/21/2024 13:30	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/21/2024 13:30	62105	ELAN_T1	2	1	-1	0.4	1	0.6	0	0	0	0	0	0	0	0
8/21/2024 13:30	61802	EELI_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
8/21/2024 13:30	62102	ELAN_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
8/21/2024 13:31	40101	HUNT_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
8/21/2024 13:33	67803	WLAN_T1	3	1	-2	0.3	0.2	-0.1	-0.75	-0.77	0	0	0	0	0	0
8/21/2024 13:33	16103	BING_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/21/2024 13:33	67804	WLAN_T1	2	3	1	0.55	0.83	0.28	0	0	0	0	0	0	0	0
8/21/2024 13:33	16102	BING_T2	4	0	-4	0.45	0	-0.45	1.37	1.41	0	0	0	0	0	0
8/21/2024 13:33	13704	SCHN_T2	1	0	-1	0.1	0	-0.1	0.2	0.11	0	0	0	0	0	0
8/21/2024 13:34	23202	HIRU_T2	0	1	1	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0
8/21/2024 13:34	23201	HIRU_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/21/2024 13:35	67804	WLAN_T1	2	3	1	0.55	0.83	0.28	0	0	0	0	0	0	0	0
8/21/2024 13:35	20802	LOPO_T1	0	1	1	0	0	0	-0.53	-0.51	1	1	0	600	600	0
8/21/2024 13:35	67803	WLAN_T1	3	1	-2	0.3	0.2	-0.1	-1.51	-1.54	0	0	0	0	0	0
8/21/2024 13:36	25402	LAHA_T2	0	0	0	0	0	0	-0.68	-0.35	0	0	0	0	0	0
8/21/2024 13:36	13704	SCHN_T2	1	0	-1	0.1	0	-0.1	0.11	0.16	0	0	0	0	0	0
8/21/2024 13:37	65604	QVIL_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
8/21/2024 13:37	65601	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 13:38	67803	WLAN_T1	3	1	-2	0.3	0.2	-0.1	-0.77	-0.76	0	0	0	0	0	0
8/21/2024 13:38	67805	WLAN_T1	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
8/21/2024 13:38	57502	LAWN_T3	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
8/21/2024 13:38	21701	SUBU_T1	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
8/21/2024 13:38	21703	SUBU_T1	0	0	0	0	0	0	0.9	0.83	0	0	0	0	0	0
8/21/2024 13:38	67804	WLAN_T1	2	3	1	0.55	0.83	0.28	0	0	0	0	0	0	0	0
8/21/2024 13:38	21705	SUBU_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 13:39	67804	WLAN_T1	2	3	1	0.55	0.83	0.28	-1.99	-1.91	0	0	0	0	0	0
8/21/2024 13:39	67803	WLAN_T1	3	1	-2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/21/2024 13:40	60101	COCA_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/21/2024 13:40	60102	COCA_T1	0	0	0	0	0	0	0.01	0.19	3	3	0	2100	2100	0
8/21/2024 13:42	59202	THOM_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/21/2024 13:42	51306	WIND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 13:42	51304	WIND_T2	1	1	0	0.5	1.4	0.9	0	0	0	0	0	0	0	0
8/21/2024 13:42	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 13:42	59201	THOM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 13:43	46005	BERW_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
8/21/2024 13:43	57006	WHHI_T2	0	0	0	0	0	0	2.2	2.21	1	1	0	600	600	0
8/21/2024 13:43	46001	BERW_T1	0	0	0	0	0	0	-0.81	-0.85	0	0	0	0	0	0
8/21/2024 13:44	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 13:44	61701	ELIZ_T1	2	1	-1	1.35	2.7	1.35	0	0	0	0	0	0	0	0
8/21/2024 13:45	62602	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/21/2024 13:45	62604	ENGL_T1	0	0	0	0	0	0	-0.65	-0.62	1	1	0	600	600	0
8/21/2024 13:46	11601	CEAL_T1	0	3	3	0	0.63	0.63	0	0	1	1	0	1200	1200	0
8/21/2024 13:47	62102	ELAN_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
8/21/2024 13:47	29402	BELT_T1	1	1	0	7.3	7.8	0.5	0	0	0	0	0	0	0	0
8/21/2024 13:47	55101	WERT_T1	0	0	0	0	0	0	-1.39	-1.29	3	3	0	2400	2400	0
8/21/2024 13:47	11804	FRAN_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/21/2024 13:47	53902	HALI_T2	1	3	2	4.8	1.93	-2.87	0	0	0	0	0	0	0	0
8/21/2024 13:47	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 13:47	53903	HALI_T2	4	6	2	0.83	0.65	-0.18	0	0	0	0	0	0	0	0
8/21/2024 13:47	11805	FRAN_T1	1	0	-1	0.2	0	-0.2	-0.96	-1.03	1	1	0	1200	1200	0
8/21/2024 13:47	53901	HALI_T2	2	2	0	0.55	0.5	-0.05	-2.27	-2.27	0	0	0	0	0	0
8/21/2024 13:47	13702	SCHN_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
8/21/2024 13:47	62105	ELAN_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
8/21/2024 13:47	40101	HUNT_T2	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
8/21/2024 13:47	13705	SCHN_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
8/21/2024 13:49	53902	HALI_T2	1	3	2	4.8	1.93	-2.87	0	0	0	0	0	0	0	0
8/21/2024 13:49	58402	MORO_T1	0	0	0	0	0	0	-0.09	-0.07	2	2	0	1500	1500	0
8/21/2024 13:49	47001	HUGH_T2	3	4	1	6.87	5.53	-1.34	-0.04	-0.02	0	0	0	0	0	0
8/21/2024 13:49	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-1.56	-2.8	2	4	2	1200	2400	1200
8/21/2024 13:49	53903	HALI_T2	4	6	2	0.83	0.65	-0.18	0	0	0	0	0	0	0	0
8/21/2024 13:49	64902	MILL_T2	0	0	0	0	0	0	-0.13	-0.06	0	0	0	0	0	0
8/21/2024 13:49	53901	HALI_T2	2	2	0	0.55	0.5	-0.05	-2.27	-2.27	0	0	0	0	0	0
8/21/2024 13:50	53902	HALI_T2	1	3	2	4.8	1.93	-2.87	0	0	0	0	0	0	0	0
8/21/2024 13:50	55001	NEWP_T1	2	2	0	0.75	0.55	-0.2	0.06	0.07	0	0	0	0	0	0
8/21/2024 13:50	53901	HALI_T2	2	2	0	0.55	0.5	-0.05	-1.14	-1.14	0	0	0	0	0	0
8/21/2024 13:50	55002	NEWP_T1	8	8	0	0.63	0.58	-0.05	0	0	0	0	0	0	0	0
8/21/2024 13:50	53903	HALI_T2	4	6	2	0.83	0.65	-0.18	0	0	0	0	0	0	0	0
8/21/2024 13:51	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 13:51	46101	MACI_T2	0	0	0	0	0	0	0.09	-0.42	1	1	0	1200	1200	0
8/21/2024 13:51	64902	MILL_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
8/21/2024 13:52	42601	TUSC_T1	0	2	2	0	0.4	0.4	-0.96	-1.04	2	2	0	1800	1800	0
8/21/2024 13:52	46102	MACI_T1	0	0	0	0	0	0	0.82	0.86	0	0	0	0	0	0
8/21/2024 13:52	48901	FOSP_T2	1	0	-1	0.2	0	-0.2	-0.04	0	1	1	0	600	600	0
8/21/2024 13:53	57401	SPAN_T1	3	4	1	2.9	1.73	-1.17	0.4	0.45	0	0	0	0	0	0
8/21/2024 13:53	57403	SPAN_T1	11	17	6	0.23	0.25	0.02	0	0	0	0	0	0	0	0
8/21/2024 13:54	67401	WAKE_T2	1	2	1	0.1	0.85	0.75	-0.94	-0.94	0	0	0	0	0	0
8/21/2024 13:54	60103	COCA_T2	0	0	0	0	0	0	-1.23	-1.17	1	1	0	1200	1200	0
8/21/2024 13:55	57401	SPAN_T1	3	4	1	2.9	1.73	-1.17	1.21	1.34	0	0	0	0	0	0
8/21/2024 13:55	57004	WHHI_T2	0	0	0	0	0	0	-0.31	-0.28	0	0	0	0	0	0
8/21/2024 13:55	57403	SPAN_T1	11	17	6	0.23	0.25	0.02	0	0	0	0	0	0	0	0
8/21/2024 13:56	45601	WOOL_T1	0	0	0	0	0	0	-0.29	-0.26	1	1	0	1200	1200	0
8/21/2024 13:56	59201	THOM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 13:56	45602	WOOL_T1	0	1	1	0	0.3	0.3	0.71	0.68	0	0	0	0	0	0
8/21/2024 13:56	59202	THOM_T1	2	3	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/21/2024 13:57	43105	SMIL_T2	3	6	3	0.13	0.35	0.22	0	0	0	0	0	0	0	0
8/21/2024 13:57	59201	THOM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 13:57	43101	SMIL_T2	0	3	3	0	0.33	0.33	-0.5	-0.52	0	0	0	0	0	0
8/21/2024 13:57	43104	SMIL_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 13:57	43103	SMIL_T2	19	22	3	0.68	0.83	0.15	0	0	0	0	0	0	0	0
8/21/2024 13:57	43102	SMIL_T2	7	7	0	0.82	0.98	0.16	0	0	0	0	0	0	0	0
8/21/2024 13:57	59202	THOM_T1	2	3	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/21/2024 13:59	57401	SPAN_T1	3	4	1	2.9	1.73	-1.17	0.4	0.45	0	0	0	0	0	0
8/21/2024 13:59	57403	SPAN_T1	11	17	6	0.23	0.25	0.02	0	0	0	0	0	0	0	0
8/21/2024 13:59	10805	CHHI_T2	1	1	0	8.6	8	-0.6	-1.36	-1.43	2	2	0	1800	1800	0
8/21/2024 13:59	53501	EVIL_T2	0	2	2	0	0.5	0.5	-0.01	-0.01	1	1	0	600	600	0
8/21/2024 13:59	67602	WARW_T2	0	0	0	0	0	0	0.42	0.28	1	1	0	300	300	0
8/21/2024 14:00	67602	WARW_T2	0	0	0	0	0	0	0.42	0.28	1	1	0	300	300	0
8/21/2024 14:01	53501	EVIL_T2	2	2	0	0.45	0.5	0.05	-0.01	-0.01	1	1	0	600	600	0
8/21/2024 14:01	14204	EALL_T2	3	3	0	0.23	0.2	-0.03	0.52	0.57	0	0	0	0	0	0
8/21/2024 14:01	42802	SELI_T1	1	1	0	0.3	0.5	0.2	-1.83	-1.84	2	2	0	1800	1800	0
8/21/2024 14:01	28403	HART_T2	0	0	0	0	0	0	-0.84	-0.85	1	1	0	900	900	0
8/21/2024 14:01	64305	UNC_T1	0	1	1	0	0.1	0.1	0.1	0.13	0	0	0	0	0	0
8/21/2024 14:02	16007	DORN_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
8/21/2024 14:02	16004	DORN_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
8/21/2024 14:02	12606	MACA_T1	0	0	0	0	0	0	0.87	0.93	0	0	0	0	0	0
8/21/2024 14:02	12604	MACA_T1	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
8/21/2024 14:02	10102	ALLE_T2	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
8/21/2024 14:02	10203	ALLE_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/21/2024 14:02	61306	EARL_T1	0	0	0	0	0	0	-1.21	-1.21	0	0	0	0	0	0
8/21/2024 14:02	44903	SCOT_T1	0	0	0	0	0	0	0.54	0.61	0	0	0	0	0	0
8/21/2024 14:02	12602	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 14:02	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 14:02	12601	MACA_T1	2	2	0	1.35	1.45	0.1	0	0	0	0	0	0	0	0
8/21/2024 14:02	16005	DORN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/21/2024 14:02	12605	MACA_T1	1	2	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/21/2024 14:03	53501	EVIL_T2	2	2	0	0.45	0.5	0.05	-0.01	-0.01	2	2	0	1200	1200	0
8/21/2024 14:03	40101	HUNT_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
8/21/2024 14:03	10805	CHHI_T2	1	1	0	8.4	8	-0.4	-1.36	-1.43	2	2	0	1800	1800	0
8/21/2024 14:04	40101	HUNT_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
8/21/2024 14:06	13303	ORVI_T1	0	0	0	0	0	0	1.34	1.31	0	0	0	0	0	0
8/21/2024 14:08	24702	FLND_T2	1	0	-1	0.2	0	-0.2	1.53	1.44	1	1	0	1200	1200	0
8/21/2024 14:10	54603	SUMM_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 14:10	54602	SUMM_T2	0	0	0	0	0	0	-2.21	-2.24	1	1	0	600	600	0
8/21/2024 14:12	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/21/2024 14:13	66903	SHIL_T2	1	4	3	1	0.6	-0.4	-0.79	-0.77	0	0	0	0	0	0
8/21/2024 14:13	66902	SHIL_T2	1	2	1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
8/21/2024 14:13	66901	SHIL_T2	5	11	6	0.2	0.39	0.19	0	0	0	0	0	0	0	0
8/21/2024 14:14	43402	BENT_T1	0	2	2	0	0.55	0.55	0.27	-0.31	0	1	1	0	600	600
8/21/2024 14:14	43401	BENT_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/21/2024 14:14	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 14:15	53501	EVIL_T2	2	2	0	0.5	0.45	-0.05	-0.01	-0.01	1	1	0	600	600	0
8/21/2024 14:16	42802	SELI_T1	1	1	0	0.5	0.3	-0.2	-0.92	-0.81	1	1	0	900	900	0
8/21/2024 14:16	61505	EPET_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
8/21/2024 14:17	12006	HATF_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/21/2024 14:17	22901	HARW_T1	1	0	-1	0.6	0	-0.6	-0.11	-0.14	1	1	0	1200	1200	0
8/21/2024 14:17	12007	HATF_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/21/2024 14:17	12001	HATF_T1	0	0	0	0	0	0	1.46	1.57	1	1	0	600	600	0
8/21/2024 14:17	61303	EARL_T1	0	0	0	0	0	0	0.68	0.72	0	0	0	0	0	0
8/21/2024 14:18	13704	SCHN_T2	0	0	0	0	0	0	0.06	0.19	0	0	0	0	0	0
8/21/2024 14:18	66502	SMAN_T2	1	5	4	0.5	0.24	-0.26	0	0	0	0	0	0	0	0
8/21/2024 14:18	12007	HATF_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/21/2024 14:18	66501	SMAN_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
8/21/2024 14:18	66503	SMAN_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
8/21/2024 14:18	12006	HATF_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/21/2024 14:18	12001	HATF_T1	0	0	0	0	0	0	1.46	1.57	1	1	0	600	600	0
8/21/2024 14:19	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/21/2024 14:19	12401	MILF_T1	1	0	-1	0.5	0	-0.5	-0.22	-0.26	1	0	0	0	0	0
8/21/2024 14:19	12403	MILF_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
8/21/2024 14:19	63804	HEMP_T1	1	1	0	6.6	6.3	-0.3	-0.42	-0.4	0	0	0	0	0	0
8/21/2024 14:19	63801	HEMP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/21/2024 14:19	52402	GRPA_T2	6	19	13	0.48	0.47	-0.01	-0.79	-0.81	0	0	0	0	0	0
8/21/2024 14:20	12002	HATF_T1	0	0	0	0	0	0	-0.18	-0.18	1	1	0	1200	1200	0
8/21/2024 14:20	12007	HATF_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/21/2024 14:20	12006	HATF_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/21/2024 14:25	61504	EPET_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
8/21/2024 14:25	61501	EPET_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
8/21/2024 14:25	42201	SHEN_T2	1	0	-1	0.9	0	-0.9	0.32	0.3	1	1	0	600	600	0
8/21/2024 14:25	60101	COCA_T1	1	2	1	0.5	0.75	0.25	0.53	0.53	0	0	0	0	0	0
8/21/2024 14:26	67402	WAKE_T2	0	0	0	0	0	0	0.6	0.57	1	1	0	600	600	0
8/21/2024 14:26	42503	ALTA_T2	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
8/21/2024 14:26	13503	MCMI_T2	6	8	2	0.5	0.55	0.05	-0.01	-0.01	0	0	0	0	0	0
8/21/2024 14:26	13501	MCMI_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
8/21/2024 14:26	67401	WAKE_T2	2	4	2	0.85	0.45	-0.4	0	0	0	0	0	0	0	0
8/21/2024 14:28	13704	SCHN_T2	0	0	0	0	0	0	0.19	0.05	0	0	0	0	0	0
8/21/2024 14:28	67401	WAKE_T2	2	4	2	0.85	0.45	-0.4	-0.91	-0.92	0	0	0	0	0	0
8/21/2024 14:29	62105	ELAN_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/21/2024 14:29	42701	AUGU_T1	2	2	0	0.85	1.05	0.2	0	0	2	2	0	1800	1800	0
8/21/2024 14:29	54505	ENOL_T2	0	0	0	0	0	0	-1.19	-1.19	1	1	0	600	600	0
8/21/2024 14:29	62102	ELAN_T1	1	0	-1	0.2	1.3	1.1	0.85	0.89	0	0	0	0	0	0
8/21/2024 14:30	63804	HEMP_T1	1	1	0	6.6	6.3	-0.3	-0.4	-0.39	0	0	0	0	0	0
8/21/2024 14:30	63801	HEMP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/21/2024 14:32	28403	HART_T2	0	0	0	0	0	0	-0.86	-0.86	1	1	0	900	900	0
8/21/2024 14:33	63602	LETO_T1	1	1	0	0.2	0.6	0.4	-0.03	-0.03	0	0	0	0	0	0
8/21/2024 14:33	53501	EVIL_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
8/21/2024 14:33	53502	EVIL_T2	0	0	0	0	0	0	0.3	0.43	2	2	0	1200	1200	0
8/21/2024 14:36	20603	GRWO_T2	0	0	0	0	0	0	-0.49	-0.5	1	1	0	900	900	0
8/21/2024 14:36	20601	GRWO_T2	4	10	6	0.25	0.48	0.23	0	0	0	0	0	0	0	0
8/21/2024 14:37	67203	TEHI_T1	0	0	0	0	0	0	2.79	2.68	2	2	0	1500	1500	0
8/21/2024 14:37	66302	MCGO_T2	10	0	-10	0.32	0	-0.32	-1.01	-1.08	1	1	0	600	600	0
8/21/2024 14:37	67201	TEHI_T1	2	3	1	0.85	0.57	-0.28	0	0	0	0	0	0	0	0
8/21/2024 14:38	42901	MIDD_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/21/2024 14:38	57403	SPAN_T1	30	73	43	0.29	0.31	0.02	0.12	0.14	0	0	0	0	0	0
8/21/2024 14:38	56504	ROCK_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
8/21/2024 14:38	56501	ROCK_T2	1	3	2	0.8	0.37	-0.43	0	0	0	0	0	0	0	0
8/21/2024 14:38	42903	MIDD_T2	3	2	-1	1.07	1.15	0.08	0.74	0.88	1	1	0	1200	1200	0
8/21/2024 14:38	57401	SPAN_T1	3	2	-1	2.27	1.25	-1.02	0	0	0	0	0	0	0	0
8/21/2024 14:38	63401	HONY_T1	0	0	0	0	0	0	0.42	0.34	1	1	0	600	600	0
8/21/2024 14:38	42902	MIDD_T2	4	6	2	0.35	0.67	0.32	0	0	0	0	0	0	0	0
8/21/2024 14:39	43105	SMIL_T2	2	3	1	0.9	0.57	-0.33	0	0	0	0	0	0	0	0
8/21/2024 14:39	43103	SMIL_T2	26	24	-2	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
8/21/2024 14:39	56501	ROCK_T2	1	3	2	0.8	0.37	-0.43	0.46	0.52	0	0	0	0	0	0
8/21/2024 14:39	59301	MCAL_T1	5	7	2	0.68	0.73	0.05	-1.52	-1.48	1	1	0	600	600	0
8/21/2024 14:39	43102	SMIL_T2	7	7	0	0.87	0.63	-0.24	-0.66	-0.67	1	1	0	600	600	0
8/21/2024 14:39	43104	SMIL_T2	3	2	-1	0.57	0.45	-0.12	0	0	0	0	0	0	0	0
8/21/2024 14:39	59302	MCAL_T1	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/21/2024 14:39	43101	SMIL_T2	2	1	-1	0.25	0.7	0.45	0	0	0	0	0	0	0	0
8/21/2024 14:40	60102	COCA_T1	0	0	0	0	0	0	-0.17	-0.12	3	3	0	2100	2100	0
8/21/2024 14:40	56501	ROCK_T2	1	3	2	0.8	0.37	-0.43	0.46	0.52	0	0	0	0	0	0
8/21/2024 14:40	43101	SMIL_T2	2	1	-1	0.25	0.7	0.45	-0.49	-0.52	0	0	0	0	0	0
8/21/2024 14:40	46201	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 14:40	43102	SMIL_T2	7	7	0	0.87	0.63	-0.24	0	0	0	0	0	0	0	0
8/21/2024 14:40	46205	DANV_T2	0	0	0	0	0	0	-0.59	-0.54	1	1	0	1200	1200	0
8/21/2024 14:40	43105	SMIL_T2	2	3	1	0.9	0.57	-0.33	0	0	0	0	0	0	0	0
8/21/2024 14:40	46203	DANV_T2	1	4	3	7.6	2.58	-5.02	0	0	0	0	0	0	0	0
8/21/2024 14:40	43104	SMIL_T2	3	2	-1	0.57	0.45	-0.12	0	0	0	0	0	0	0	0
8/21/2024 14:40	60101	COCA_T1	2	2	0	0.2	0.75	0.55	0	0	0	0	0	0	0	0
8/21/2024 14:40	43103	SMIL_T2	26	24	-2	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
8/21/2024 14:40	46206	DANV_T2	1	1	0	0.4	0	0	0	0	0	0	0	0	0	0
8/21/2024 14:41	43102	SMIL_T2	7	7	0	0.87	0.63	-0.24	-0.66	-0.67	1	1	0	600	600	0
8/21/2024 14:41	60101	COCA_T1	2	2	0	0.2	0.75	0.55	0	0	0	0	0	0	0	0
8/21/2024 14:41	43101	SMIL_T2	2	1	-1	0.25	0.7	0.45	0	0	0	0	0	0	0	0
8/21/2024 14:41	43105	SMIL_T2	2	3	1	0.9	0.57	-0.33	0	0	0	0	0	0	0	0
8/21/2024 14:41	43104	SMIL_T2	3	2	-1	0.57	0.45	-0.12	0	0	0	0	0	0	0	0
8/21/2024 14:41	43108	SMIL_T2	0	0	0	0	0	0	-0.87	-0.92	1	1	0	1200	1200	0
8/21/2024 14:41	43103	SMIL_T2	26	24	-2	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
8/21/2024 14:42	46301	ROHR_T1	7	157	150	1.57	0.32	-1.25	0	0	0	0	0	0	0	0
8/21/2024 14:42	46302	ROHR_T1	6	13	7	1.5	1.17	-0.33	0.21	0.2	0	0	0	0	0	0
8/21/2024 14:43	55002	NEWP_T1	3	6	3	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
8/21/2024 14:43	55001	NEWP_T1	0	1	1	0	0.3	0.3	0.21	0.19	0	0	0	0	0	0
8/21/2024 14:44	29402	BELT_T1	89	69	-20	0.52	0.41	-0.11	0	0	0	0	0	0	0	0
8/21/2024 14:44	60101	COCA_T1	2	2	0	0.2	0.75	0.55	0.53	0.54	0	0	0	0	0	0
8/21/2024 14:44	55002	NEWP_T1	3	6	3	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
8/21/2024 14:44	53501	EVIL_T2	2	2	0	0.45	0.45	0	-0.01	-0.01	1	1	0	600	600	0
8/21/2024 14:44	55001	NEWP_T1	0	1	1	0	0.3	0.3	0.11	0.1	0	0	0	0	0	0
8/21/2024 14:45	53501	EVIL_T2	1	2	1	0.6	0.45	-0.15	-0.01	-0.01	1	1	0	600	600	0
8/21/2024 14:46	53501	EVIL_T2	1	2	1	0.6	0.45	-0.15	-0.01	-0.01	1	1	0	600	600	0
8/21/2024 14:46	44801	EDAN_T2	149	152	3	0.61	0.73	0.12	-1.4	-1.43	0	0	0	0	0	0
8/21/2024 14:46	63804	HEMP_T1	1	1	0	6.3	6.6	0.3	0	0	0	0	0	0	0	0
8/21/2024 14:46	63802	HEMP_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
8/21/2024 14:46	44802	EDAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/21/2024 14:46	63801	HEMP_T1	1	2	1	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
8/21/2024 14:47	53501	EVIL_T2	1	2	1	0.6	0.45	-0.15	-0.01	-0.01	1	1	0	600	600	0
8/21/2024 14:48	44801	EDAN_T2	149	152	3	0.61	0.73	0.12	-1.4	-1.43	0	0	0	0	0	0
8/21/2024 14:48	44802	EDAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/21/2024 14:49	44801	EDAN_T2	149	152	3	0.61	0.73	0.12	-1.4	-1.43	0	0	0	0	0	0
8/21/2024 14:49	53501	EVIL_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
8/21/2024 14:49	44802	EDAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/21/2024 14:49	47901	HRDG_T1	0	0	0	0	0	0	2.08	1.8	0	0	0	0	0	0
8/21/2024 14:49	53502	EVIL_T2	0	0	0	0	0	0	0.43	0.36	2	2	0	1200	1200	0
8/21/2024 14:52	65603	QVIL_T2	0	0	0	0	0	0	0.42	0.77	0	0	0	0	0	0
8/21/2024 14:52	41902	REED_T1	0	4	4	0	0.18	0.18	1.2	1.13	0	0	0	0	0	0
8/21/2024 14:53	53802	MBRG_T2	0	0	0	0	0	0	1.09	0.9	0	0	0	0	0	0
8/21/2024 14:53	64101	REFR_T1	1	1	0	0.2	0.3	0.1	0.04	0.07	0	0	0	0	0	0
8/21/2024 14:54	66902	SHIL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
8/21/2024 14:54	60701	BREC_T1	4	0	-4	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/21/2024 14:54	13704	SCHN_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
8/21/2024 14:54	66901	SHIL_T2	9	5	-4	0.34	0.34	0	0	0	0	0	0	0	0	0
8/21/2024 14:54	66903	SHIL_T2	2	1	-1	0.9	1.4	0.5	-1.47	-1.45	0	0	0	0	0	0
8/21/2024 14:55	66902	SHIL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
8/21/2024 14:55	13601	RICH_T2	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
8/21/2024 14:55	60701	BREC_T1	4	0	-4	0.3	0	-0.3	0.44	-0.03	2	2	0	1200	1200	0
8/21/2024 14:55	66903	SHIL_T2	2	1	-1	0.9	1.4	0.5	-1.47	-1.45	0	0	0	0	0	0
8/21/2024 14:55	66901	SHIL_T2	9	5	-4	0.34	0.34	0	0	0	0	0	0	0	0	0
8/21/2024 14:56	67401	WAKE_T2	3	5	2	0.57	0.44	-0.13	-0.91	-0.84	0	0	0	0	0	0
8/21/2024 14:56	60101	COCA_T1	2	2	0	0.75	0.55	-0.2	1.07	1.16	0	0	0	0	0	0
8/21/2024 14:56	64101	REFR_T1	1	1	0	0.2	0.3	0.1	0.07	0.13	0	0	0	0	0	0
8/21/2024 14:57	42701	AUGU_T1	1	2	1	1	0.7	-0.3	0	0	2	2	0	1800	1800	0
8/21/2024 14:58	42802	SELI_T1	0	0	0	0	0	0	-0.9	-0.87	1	1	0	900	900	0
8/21/2024 14:58	60701	BREC_T1	4	0	-4	0.3	0	-0.3	0.88	-0.06	4	4	0	2400	2400	0
8/21/2024 14:58	49803	UNIV_T1	3	3	0	1.9	1.97	0.07	-2	-1.99	0	0	0	0	0	0
8/21/2024 14:58	64101	REFR_T1	1	1	0	0.2	0.3	0.1	0.04	0.07	0	0	0	0	0	0
8/21/2024 14:58	49804	UNIV_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/21/2024 14:58	11103	EGYP_T1	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
8/21/2024 14:59	11103	EGYP_T1	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
8/21/2024 14:59	60701	BREC_T1	4	0	-4	0.3	0	-0.3	0.44	-0.03	2	2	0	1200	1200	0
8/21/2024 14:59	66902	SHIL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
8/21/2024 14:59	66903	SHIL_T2	2	1	-1	0.9	1.4	0.5	0	0	0	0	0	0	0	0
8/21/2024 14:59	66901	SHIL_T2	9	5	-4	0.34	0.34	0	-1.34	-1.38	1	1	0	1200	1200	0
8/21/2024 15:00	60701	BREC_T1	0	0	0	0	0	0	0.88	-0.06	4	4	0	2400	2400	0
8/21/2024 15:00	53501	EVIL_T2	2	2	0	0.45	0.55	0.1	-0.01	-0.01	1	1	0	600	600	0
8/21/2024 15:04	43202	MVIL_T2	1	1	0	0.5	0.1	-0.4	-0.3	-0.28	0	0	0	0	0	0
8/21/2024 15:04	43201	MVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/21/2024 15:06	22905	HARW_T1	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
8/21/2024 15:08	41902	REED_T1	0	4	4	0	0.18	0.18	1.13	1.21	0	0	0	0	0	0
8/21/2024 15:08	49803	UNIV_T1	3	3	0	1.93	1.97	0.04	-1.99	-1.91	0	0	0	0	0	0
8/21/2024 15:08	21703	SUBU_T1	0	0	0	0	0	0	0.81	0.75	0	0	0	0	0	0
8/21/2024 15:08	49804	UNIV_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/21/2024 15:08	45402	WBLO_T2	48	69	21	0.27	0.29	0.02	-0.45	-0.54	0	0	0	0	0	0
8/21/2024 15:08	21705	SUBU_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
8/21/2024 15:08	21701	SUBU_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
8/21/2024 15:10	47403	PENS_T1	1	5	4	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
8/21/2024 15:10	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 15:10	47401	PENS_T1	2	1	-1	0.8	0.1	-0.7	1.51	1.45	0	0	0	0	0	0
8/21/2024 15:11	45402	WBLO_T2	48	69	21	0.27	0.29	0.02	-0.45	-0.54	0	0	0	0	0	0
8/21/2024 15:13	67402	WAKE_T2	0	0	0	0	0	0	1.1	1.13	2	2	0	1200	1200	0
8/21/2024 15:13	67401	WAKE_T2	4	6	2	0.15	0.4	0.25	0	0	0	0	0	0	0	0
8/21/2024 15:14	60901	DONG_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/21/2024 15:14	60904	DONG_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/21/2024 15:14	60902	DONG_T2	0	0	0	0	0	0	1	1.02	0	0	0	0	0	0
8/21/2024 15:15	60902	DONG_T2	0	0	0	0	0	0	1	1.02	0	0	0	0	0	0
8/21/2024 15:15	60901	DONG_T2	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
8/21/2024 15:15	60903	DONG_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 15:17	63602	LETO_T1	0	1	1	0	0.1	0.1	-0.1	0.05	0	0	0	0	0	0
8/21/2024 15:18	52402	GRPA_T2	91	15	-76	0.35	0.57	0.22	0	0	0	0	0	0	0	0
8/21/2024 15:18	22701	MINO_T1	0	2	2	0	0	0	-0.89	-0.88	1	1	0	600	600	0
8/21/2024 15:18	52403	GRPA_T2	3	1	-2	0.27	0.2	-0.07	0.4	0.49	0	0	0	0	0	0
8/21/2024 15:19	52402	GRPA_T2	91	15	-76	0.35	0.57	0.22	0	0	0	0	0	0	0	0
8/21/2024 15:19	46504	LOHA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/21/2024 15:19	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 15:19	52403	GRPA_T2	3	1	-2	0.27	0.2	-0.07	0.2	0.25	0	0	0	0	0	0
8/21/2024 15:19	46503	LOHA_T1	0	0	0	0	0	0	-1.16	-1.12	0	0	0	0	0	0
8/21/2024 15:20	51204	MTON_T2	0	0	0	0	0	0	-0.45	-0.41	2	2	0	1200	1200	0
8/21/2024 15:20	63602	LETO_T1	0	1	1	0	0.1	0.1	-0.19	0.09	0	0	0	0	0	0
8/21/2024 15:20	51202	MTON_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/21/2024 15:21	51201	MTON_T1	0	1	1	0	0.4	0.4	0.2	0.23	0	0	0	0	0	0
8/21/2024 15:21	52403	GRPA_T2	3	1	-2	0.27	0.2	-0.07	0.2	0.25	0	0	0	0	0	0
8/21/2024 15:21	52402	GRPA_T2	91	15	-76	0.35	0.57	0.22	0	0	0	0	0	0	0	0
8/21/2024 15:22	52404	GRPA_T2	0	0	0	0	0	0	0.16	0.23	0	0	0	0	0	0
8/21/2024 15:22	52403	GRPA_T2	3	1	-2	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
8/21/2024 15:22	52402	GRPA_T2	91	15	-76	0.35	0.57	0.22	0	0	0	0	0	0	0	0
8/21/2024 15:22	13101	NHAM_T1	1	0	-1	0.4	0	-0.4	-3.38	-3.67	4	4	0	4200	4200	0
8/21/2024 15:23	65003	NEFF_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/21/2024 15:23	65001	NEFF_T2	0	0	0	0	0	0	-0.53	-0.49	1	1	0	1200	1200	0
8/21/2024 15:23	65005	NEFF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/21/2024 15:24	49803	UNIV_T1	3	2	-1	1.97	2.4	0.43	-1.91	-2.04	0	0	0	0	0	0
8/21/2024 15:24	49804	UNIV_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
8/21/2024 15:25	57401	SPAN_T1	2	2	0	0.85	1	0.15	0.11	0.12	1	1	0	600	600	0
8/21/2024 15:25	57403	SPAN_T1	13	12	-1	0.22	0.28	0.06	0	0	0	0	0	0	0	0
8/21/2024 15:27	57403	SPAN_T1	13	12	-1	0.22	0.28	0.06	0.14	0.14	0	0	0	0	0	0
8/21/2024 15:27	44302	BEAV_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
8/21/2024 15:27	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 15:27	57401	SPAN_T1	2	2	0	0.85	1	0.15	0.22	0.24	2	2	0	1200	1200	0
8/21/2024 15:28	57403	SPAN_T1	13	12	-1	0.22	0.28	0.06	0	0	0	0	0	0	0	0
8/21/2024 15:28	57401	SPAN_T1	2	2	0	0.85	1	0.15	0.11	0.12	1	1	0	600	600	0
8/21/2024 15:28	60101	COCA_T1	2	2	0	0.2	0.15	-0.05	0.52	0.53	0	0	0	0	0	0
8/21/2024 15:28	16006	DORN_T2	0	0	0	0	0	0	-0.37	-0.35	1	1	0	1200	1200	0
8/21/2024 15:28	15203	SPAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 15:29	57403	SPAN_T1	13	12	-1	0.22	0.28	0.06	0	0	0	0	0	0	0	0
8/21/2024 15:29	57401	SPAN_T1	2	2	0	0.85	1	0.15	0.11	0.12	1	1	0	600	600	0
8/21/2024 15:30	42802	SELI_T1	0	0	0	0	0	0	-0.92	-0.94	1	1	0	900	900	0
8/21/2024 15:32	24104	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 15:32	24102	EHAZ_T1	1	0	-1	0.3	0	-0.3	0.55	0.18	0	0	0	0	0	0
8/21/2024 15:32	24105	EHAZ_T1	4	4	0	6.88	6.63	-0.25	0	0	0	0	0	0	0	0
8/21/2024 15:32	16006	DORN_T2	0	0	0	0	0	0	-0.37	-0.35	1	1	0	1200	1200	0
8/21/2024 15:34	10702	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/21/2024 15:34	10707	CATA_T2	0	0	0	0	0	0	0.71	0.68	0	0	0	0	0	0
8/21/2024 15:35	51702	OBER_T1	3	2	-1	2.03	2.95	0.92	0	0	0	0	0	0	0	0
8/21/2024 15:35	51704	OBER_T1	0	0	0	0	0	0	-1.42	-1.42	0	0	0	0	0	0
8/21/2024 15:37	51704	OBER_T1	0	0	0	0	0	0	-1.42	-0.06	0	0	0	0	0	0
8/21/2024 15:37	48302	ORWI_T2	2	2	0	0.4	0.35	-0.05	0.09	0.1	0	0	0	0	0	0
8/21/2024 15:37	51702	OBER_T1	3	2	-1	2.03	2.95	0.92	-0.5	-0.56	1	1	0	600	600	0
8/21/2024 15:38	48301	ORWI_T1	2	2	0	4.95	5.1	0.15	-0.61	-0.48	1	1	0	900	900	0
8/21/2024 15:39	48301	ORWI_T1	2	2	0	4.95	5.1	0.15	-0.61	-0.48	1	1	0	900	900	0
8/21/2024 15:40	63501	HEID_TBK1-2	57	58	1	1.43	1.39	-0.04	-0.03	-0.13	1	1	0	900	900	0
8/21/2024 15:41	57401	SPAN_T1	2	2	0	0.7	1	0.3	0	0	0	0	0	0	0	0
8/21/2024 15:41	57403	SPAN_T1	5	11	6	0.38	0.25	-0.13	0.14	0.15	0	0	0	0	0	0
8/21/2024 15:41	45501	DERR_T2	0	1	1	0	0.4	0.4	0.89	0.81	2	2	0	1800	1800	0
8/21/2024 15:42	60101	COCA_T1	2	0	-2	0.15	0	-0.15	0.53	0.52	0	0	0	0	0	0
8/21/2024 15:44	57403	SPAN_T1	2	2	0	0.7	1	0.3	0.12	0.05	1	1	0	600	600	0
8/21/2024 15:44	60102	COCA_T1	0	0	0	0	0	0	-0.2	-0.47	3	3	0	2100	2100	0
8/21/2024 15:44	23203	HIRU_T2	1	0	-1	0.2	0	-0.2	0.09	0.17	0	0	0	0	0	0
8/21/2024 15:44	23201	HIRU_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 15:44	57403	SPAN_T1	5	11	6	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
8/21/2024 15:44	60101	COCA_T1	2	0	-2	0.15	0	-0.15	0.53	0.52	0	0	0	0	0	0
8/21/2024 15:45	52403	GRPA_T2	1	2	1	0.1	0.15	0.05	0.26	0.26	0	0	0	0	0	0
8/21/2024 15:45	52402	GRPA_T2	12	6	-6	0.44	0.5	0.06	0	0	0	0	0	0	0	0
8/21/2024 15:45	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 15:45	51603	DUKE_T1	0	0	0	0	0	0	-0.24	-0.28	0	0	0	0	0	0
8/21/2024 15:46	46402	FLEM_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
8/21/2024 15:46	46401	FLEM_T2	1	4	3	0.6	0.78	0.18	0	0	0	0	0	0	0	0
8/21/2024 15:47	45501	DERR_T2	1	2	1	0.4	0.3	-0.1	0.89	0.81	2	2	0	1800	1800	0
8/21/2024 15:50	52102	MEIS_T1	1	3	2	0.8	0.23	-0.57	0	0	1	1	0	450	450	0
8/21/2024 15:50	52101	MEIS_T1	3	2	-1	0.77	1.3	0.53	0	0	0	0	0	0	0	0
8/21/2024 15:51	47001	HUGH_T2	4	4	0	5.83	5.73	-0.1	0	0	0	0	0	0	0	0
8/21/2024 15:51	45801	HEGI_T1	0	0	0	0	0	0	-0.11	-0.12	1	1	0	900	900	0
8/21/2024 15:51	47002	HUGH_T2	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
8/21/2024 15:52	65901	SAKR_T2	1	1	0	7.9	7.9	0	-0.71	-0.6	1	1	0	900	900	0
8/21/2024 15:57	42902	MIDD_T2	1	0	-1	0.1	0	-0.1	-0.09	-0.17	0	0	0	0	0	0
8/21/2024 15:57	42903	MIDD_T2	2	2	0	1.25	0.8	-0.45	0	0	0	0	0	0	0	0
8/21/2024 16:01	45501	DERR_T2	0	2	2	0	0.3	0.3	0.81	0.64	2	2	0	1800	1800	0
8/21/2024 16:01	20601	GRWO_T2	1	1	0	0.9	0.2	-0.7	1.14	1.16	0	0	0	0	0	0
8/21/2024 16:01	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 16:06	49803	UNIV_T1	1	1	0	5.1	5	-0.1	-2	-2.1	0	0	0	0	0	0
8/21/2024 16:07	10702	CATA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/21/2024 16:07	10705	CATA_T2	0	0	0	0	0	0	-1.03	-1.07	0	0	0	0	0	0
8/21/2024 16:08	12006	HATF_T1	0	0	0	0	0	0	-0.23	-0.41	2	2	0	2400	2400	0
8/21/2024 16:08	55002	NEWP_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
8/21/2024 16:08	55001	NEWP_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
8/21/2024 16:09	67803	WLAN_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
8/21/2024 16:09	67804	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 16:10	13101	NHAM_T1	0	0	0	0	0	0	-3.56	-3.6	4	4	0	4200	4200	0
8/21/2024 16:12	24602	VARD_T2	1	1	0	0.8	1.4	0.6	0	0	0	0	0	0	0	0
8/21/2024 16:12	24603	VARD_T2	2	2	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
8/21/2024 16:14	10602	BLGL_T2	0	1	1	0	0.2	0.2	0.49	0.5	0	0	0	0	0	0
8/21/2024 16:21	26401	INOR_T1	1	1	0	6.7	7.7	1	0	0	0	0	0	0	0	0
8/21/2024 16:21	26402	INOR_T1	0	0	0	0	0	0	-1.81	-1.87	1	1	0	600	600	0
8/21/2024 16:30	67503	WEWI_T2	1	1	0	7.2	7.4	0.2	0	0	0	0	0	0	0	0
8/21/2024 16:30	12206	FOGE_T2	0	0	0	0	0	0	-0.27	-0.26	2	2	0	2100	2100	0
8/21/2024 16:30	67502	WEWI_T2	1	2	1	0.3	0.1	-0.2	-0.2	-0.15	0	0	0	0	0	0
8/21/2024 16:31	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
8/21/2024 16:31	67503	WEWI_T2	1	1	0	7.2	7.4	0.2	0	0	0	0	0	0	0	0
8/21/2024 16:31	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 16:31	67502	WEWI_T2	1	2	1	0.3	0.1	-0.2	-0.2	-0.15	0	0	0	0	0	0
8/21/2024 16:32	62607	ENGL_T1	0	0	0	0	0	0	-0.89	-0.9	1	1	0	300	300	0
8/21/2024 16:33	51204	MTON_T2	0	0	0	0	0	0	-0.21	-0.22	1	1	0	600	600	0
8/21/2024 16:34	51402	LYKE_T1	0	0	0	0	0	0	-1.37	-1.36	1	1	0	600	600	0
8/21/2024 16:37	41902	REED_T1	0	0	0	0	0	0	1.21	1.28	0	0	0	0	0	0
8/21/2024 16:37	41901	REED_T1	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
8/21/2024 16:38	51204	MTON_T2	0	0	0	0	0	0	-0.22	-0.18	1	1	0	600	600	0
8/21/2024 16:41	43103	SMIL_T2	21	19	-2	0.55	0.34	-0.21	0	0	0	0	0	0	0	0
8/21/2024 16:41	43102	SMIL_T2	7	7	0	0.58	0.82	0.24	0	0	0	0	0	0	0	0
8/21/2024 16:41	43105	SMIL_T2	3	6	3	0.17	0.25	0.08	0	0	0	0	0	0	0	0
8/21/2024 16:41	43108	SMIL_T2	0	0	0	0	0	0	-0.87	-0.94	1	1	0	1200	1200	0
8/21/2024 16:43	13503	MCMI_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
8/21/2024 16:50	12801	MICK_T1	0	0	0	0	0	0	-0.78	-0.74	1	1	0	600	600	0
8/21/2024 16:50	21901	HUMB_T1	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
8/21/2024 16:50	12807	MICK_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/21/2024 16:53	12801	MICK_T1	0	0	0	0	0	0	-0.74	-0.79	1	1	0	600	600	0
8/21/2024 16:53	12807	MICK_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/21/2024 16:54	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 16:56	24702	FLND_T2	2	3	1	0.4	0.37	-0.03	0.6	0.73	1	1	0	1200	1200	0
8/21/2024 16:59	21206	ECAR_T2	10	1	-9	1.24	8.1	6.86	-0.09	-0.14	0	0	0	0	0	0
8/21/2024 16:59	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 16:59	11903	ETEX_T1	0	0	0	0	0	0	0.76	0.72	0	0	0	0	0	0
8/21/2024 17:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 17:00	40502	CRES_T2	0	1	1	0	0	0	-0.19	-0.2	0	0	0	0	0	0
8/21/2024 17:03	53501	EVIL_T2	1	1	0	1.2	1.4	0.2	-0.01	-0.01	1	1	0	600	600	0
8/21/2024 17:03	51002	NHAR_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
8/21/2024 17:03	51004	NHAR_T1	1	1	0	6.2	6.1	-0.1	-1.06	-1.06	0	0	0	0	0	0
8/21/2024 17:05	58401	MORO_T1	0	0	0	0	0	0	-1.45	-1.45	2	2	0	1200	1200	0
8/21/2024 17:06	41902	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 17:06	41901	REED_T1	1	7	6	0.2	0.2	0	0	0	0	0	0	0	0	0
8/21/2024 17:06	41903	REED_T1	0	0	0	0	0	0	0.04	0.01	1	1	0	1200	1200	0
8/21/2024 17:07	43102	SMIL_T2	7	7	0	0.77	0.67	-0.1	-0.72	-0.7	1	1	0	600	600	0
8/21/2024 17:07	43103	SMIL_T2	15	12	-3	0.37	0.38	0.01	0	0	0	0	0	0	0	0
8/21/2024 17:07	43105	SMIL_T2	4	1	-3	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/21/2024 17:08	43102	SMIL_T2	7	7	0	0.77	0.67	-0.1	-0.72	-0.7	1	1	0	600	600	0
8/21/2024 17:08	43103	SMIL_T2	15	12	-3	0.37	0.38	0.01	0	0	0	0	0	0	0	0
8/21/2024 17:08	58401	MORO_T1	0	0	0	0	0	0	-1.45	-1.4	2	2	0	1200	1200	0
8/21/2024 17:08	43105	SMIL_T2	4	1	-3	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/21/2024 17:09	43105	SMIL_T2	4	1	-3	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/21/2024 17:09	43102	SMIL_T2	7	7	0	0.77	0.67	-0.1	-0.72	-0.7	1	1	0	600	600	0
8/21/2024 17:09	43103	SMIL_T2	15	12	-3	0.37	0.38	0.01	0	0	0	0	0	0	0	0
8/21/2024 17:10	43102	SMIL_T2	7	7	0	0.77	0.67	-0.1	-0.72	-0.7	1	1	0	600	600	0
8/21/2024 17:10	43105	SMIL_T2	4	1	-3	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/21/2024 17:10	43103	SMIL_T2	15	12	-3	0.37	0.38	0.01	0	0	0	0	0	0	0	0
8/21/2024 17:11	43102	SMIL_T2	7	7	0	0.77	0.67	-0.1	-0.72	-0.7	1	1	0	600	600	0
8/21/2024 17:11	43103	SMIL_T2	15	12	-3	0.37	0.38	0.01	0	0	0	0	0	0	0	0
8/21/2024 17:11	43105	SMIL_T2	4	1	-3	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/21/2024 17:13	40504	CRES_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
8/21/2024 17:13	40505	CRES_T1	3	3	0	3.7	4.6	0.9	0	0	0	0	0	0	0	0
8/21/2024 17:15	40502	CRES_T2	1	0	-1	0.1	0	-0.1	-0.2	-0.19	0	0	0	0	0	0
8/21/2024 17:15	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 17:16	40505	CRES_T1	3	3	0	4.6	4.6	0	0	0	0	0	0	0	0	0
8/21/2024 17:16	40502	CRES_T2	1	0	-1	0.1	0	-0.1	-0.2	-0.19	0	0	0	0	0	0
8/21/2024 17:16	46001	BERW_T1	0	1	1	0	0	0	-1.1	-1.07	0	0	0	0	0	0
8/21/2024 17:16	40504	CRES_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
8/21/2024 17:16	46005	BERW_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
8/21/2024 17:16	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 17:17	40502	CRES_T2	1	0	-1	0.1	0	-0.1	-0.2	-0.19	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/21/2024 17:17	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 17:18	61301	EARL_T1	0	0	0	0	0	0	-1.1	-1.1	2	2	0	1800	1800	0
8/21/2024 17:19	40902	JESH_T1	0	0	0	0	0	0	-1.29	-1.33	1	1	0	600	600	0
8/21/2024 17:19	40901	JESH_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
8/21/2024 17:21	40901	JESH_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
8/21/2024 17:21	40902	JESH_T1	0	0	0	0	0	0	-1.33	-1.31	1	1	0	600	600	0
8/21/2024 17:22	40502	CRES_T2	1	0	-1	0.1	0	-0.1	-0.19	-0.19	0	0	0	0	0	0
8/21/2024 17:22	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 17:29	22701	MINO_T1	0	0	0	0	0	0	-0.93	-0.92	1	1	0	600	600	0
8/21/2024 17:30	59101	WALK_T2	0	0	0	0	0	0	1.47	1.55	0	0	0	0	0	0
8/21/2024 17:32	12701	MACU_T1	0	1	1	0	0.1	0.1	0.18	0.18	0	0	0	0	0	0
8/21/2024 17:32	64503	LAVI_T1	0	0	0	0	0	0	-1.43	-1.49	1	1	0	1200	1200	0
8/21/2024 17:34	64503	LAVI_T1	0	0	0	0	0	0	-1.43	-1.49	1	1	0	1200	1200	0
8/21/2024 17:34	12701	MACU_T1	0	1	1	0	0.1	0.1	0.18	0.18	0	0	0	0	0	0
8/21/2024 17:36	40902	JESH_T1	0	0	0	0	0	0	-1.31	-1.32	1	1	0	600	600	0
8/21/2024 17:36	64503	LAVI_T1	0	0	0	0	0	0	-1.49	-1.55	1	1	0	1200	1200	0
8/21/2024 17:36	40901	JESH_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
8/21/2024 17:36	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.04	-0.86	0	0	0	0	0	0
8/21/2024 17:37	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 17:37	64503	LAVI_T1	0	0	0	0	0	0	-1.49	-1.55	1	1	0	1200	1200	0
8/21/2024 17:37	40901	JESH_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
8/21/2024 17:39	55101	WERT_T1	0	0	0	0	0	0	-1.55	-1.46	3	3	0	2400	2400	0
8/21/2024 17:41	55101	WERT_T1	0	0	0	0	0	0	-1.55	-1.46	3	3	0	2400	2400	0
8/21/2024 17:42	55101	WERT_T1	0	0	0	0	0	0	-1.55	-1.46	3	3	0	2400	2400	0
8/21/2024 17:43	55101	WERT_T1	0	0	0	0	0	0	-1.55	-1.46	3	3	0	2400	2400	0
8/21/2024 17:45	46401	FLEM_T2	1	3	2	1.3	0.47	-0.83	0	0	0	0	0	0	0	0
8/21/2024 17:45	46402	FLEM_T2	0	0	0	0	0	0	-0.44	-0.4	0	0	0	0	0	0
8/21/2024 17:45	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 17:46	51802	EBEN_T2	0	0	0	0	0	0	0.7	0.66	1	1	0	900	900	0
8/21/2024 17:47	51002	NHAR_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 17:47	51004	NHAR_T1	1	1	0	6	6.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 17:47	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/21/2024 17:47	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 17:47	40802	EXCH_T2	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
8/21/2024 17:48	12002	HATF_T1	0	0	0	0	0	0	-1.12	-1.14	1	1	0	1200	1200	0
8/21/2024 17:52	15202	SFAR_T1	0	0	0	0	0	0	-1.94	-1.85	2	2	0	2400	2400	0
8/21/2024 17:56	43104	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 17:56	43102	SMIL_T2	7	8	1	0.6	0.61	0.01	-0.71	-0.74	1	1	0	600	600	0
8/21/2024 17:56	43103	SMIL_T2	12	16	4	0.36	0.41	0.05	0	0	0	0	0	0	0	0
8/21/2024 17:58	12605	MACA_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
8/21/2024 18:12	64501	LAVI_T1	0	1	1	0	0.2	0.2	-0.25	-0.28	0	0	0	0	0	0
8/21/2024 18:12	64503	LAVI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 18:14	62102	ELAN_T1	0	0	0	0	0	0	0.97	1	0	0	0	0	0	0
8/21/2024 18:14	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 18:15	62102	ELAN_T1	0	0	0	0	0	0	0.97	1	0	0	0	0	0	0
8/21/2024 18:16	23403	HONE_T1	0	0	0	0	0	0	-0.64	-0.69	0	0	0	0	0	0
8/21/2024 18:17	67402	WAKE_T2	0	0	0	0	0	0	-0.14	-0.16	1	1	0	600	600	0
8/21/2024 18:21	66401	ROBE_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
8/21/2024 18:21	66402	ROBE_T1	0	0	0	0	0	0	-0.74	-0.62	2	2	0	1500	1500	0
8/21/2024 18:27	55101	WERT_T1	0	0	0	0	0	0	-1.57	-1.59	3	3	0	2400	2400	0
8/21/2024 18:28	58701	ROSE_T2	0	0	0	0	0	0	-0.03	-0.04	1	1	0	600	600	0
8/21/2024 18:28	58706	ROSE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/21/2024 18:28	58705	ROSE_T2	5	5	0	1.8	2.22	0.42	0	0	0	0	0	0	0	0
8/21/2024 18:33	45801	HEGI_T1	0	0	0	0	0	0	-0.19	-0.23	1	1	0	900	900	0
8/21/2024 18:34	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/21/2024 18:36	22905	HARW_T1	0	0	0	0	0	0	-0.7	-0.73	0	0	0	0	0	0
8/21/2024 18:37	50103	HARR_T3	0	2	2	0	0.2	0.2	0	0	1	1	0	1200	1200	0
8/21/2024 18:37	50105	HARR_T3	6	6	0	5.65	5.48	-0.17	0	0	0	0	0	0	0	0
8/21/2024 18:37	50107	HARR_T3	1	1	0	7.4	6.6	-0.8	0	0	0	0	0	0	0	0
8/21/2024 18:37	50201	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 18:40	24702	FLND_T2	0	0	0	0	0	0	0.44	0.31	1	1	0	1200	1200	0
8/21/2024 18:42	51304	WIND_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
8/21/2024 18:43	51305	WIND_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
8/21/2024 18:45	45501	DERR_T2	0	0	0	0	0	0	0.58	0.48	2	2	0	1800	1800	0
8/21/2024 18:48	22701	MINO_T1	0	0	0	0	0	0	-0.88	-0.92	1	1	0	600	600	0
8/21/2024 18:49	67702	WERN_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
8/21/2024 18:59	22701	MINO_T1	0	0	0	0	0	0	-0.92	-0.95	1	1	0	600	600	0
8/21/2024 19:05	65501	MOJO_T1	0	0	0	0	0	0	-1.03	-1.05	1	1	0	900	900	0
8/21/2024 19:06	26402	INOR_T1	0	0	0	0	0	0	-1.89	-1.93	1	1	0	600	600	0
8/21/2024 19:06	26401	INOR_T1	1	1	0	8.8	8.5	-0.3	0	0	0	0	0	0	0	0
8/21/2024 19:25	16301	ALPA_T1	0	0	0	0	0	0	0.21	0.27	0	0	0	0	0	0
8/21/2024 20:03	40802	EXCH_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
8/21/2024 20:05	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 20:05	50103	HARR_T3	2	2	0	0.4	0.6	0.2	0	0	1	1	0	1200	1200	0
8/21/2024 20:05	50105	HARR_T3	6	6	0	5.55	5.38	-0.17	0	0	0	0	0	0	0	0
8/21/2024 20:05	50201	HARR_T3	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/21/2024 20:05	50107	HARR_T3	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
8/21/2024 20:06	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 20:06	50103	HARR_T3	2	2	0	0.4	0.6	0.2	0	0	1	1	0	1200	1200	0
8/21/2024 20:06	50201	HARR_T3	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/21/2024 20:06	50105	HARR_T3	6	6	0	5.55	5.38	-0.17	0	0	0	0	0	0	0	0
8/21/2024 20:06	50107	HARR_T3	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
8/21/2024 20:07	45701	LIND_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
8/21/2024 20:07	45702	LIND_T2	1	1	0	1.5	0.9	-0.6	-0.55	-0.48	0	0	0	0	0	0
8/21/2024 20:09	50103	HARR_T3	2	2	0	0.4	0.6	0.2	0	0	1	1	0	1200	1200	0
8/21/2024 20:09	50107	HARR_T3	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
8/21/2024 20:09	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 20:09	50105	HARR_T3	6	6	0	5.55	5.38	-0.17	0	0	0	0	0	0	0	0
8/21/2024 20:09	57104	SPHI_T2	0	1	1	0	0.5	0.5	-0.84	-0.84	0	0	0	0	0	0
8/21/2024 20:09	50201	HARR_T3	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/21/2024 20:09	57101	SPHI_T2	6	6	0	0.57	0.93	0.36	0	0	0	0	0	0	0	0
8/21/2024 20:09	57106	SPHI_T2	3	3	0	0.53	0.57	0.04	0	0	0	0	0	0	0	0
8/21/2024 20:12	43302	WATS_T2	1	4	3	0.1	0.53	0.43	0	0	0	0	0	0	0	0
8/21/2024 20:12	43301	WATS_T2	0	0	0	0	0	0	0.82	0.8	0	0	0	0	0	0
8/21/2024 20:14	56501	ROCK_T2	1	3	2	0.2	0.37	0.17	0.22	0.23	0	0	0	0	0	0
8/21/2024 20:18	62102	ELAN_T1	0	0	0	0	0	0	0.92	0.96	0	0	0	0	0	0
8/21/2024 20:23	65503	MOJO_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
8/21/2024 20:30	65502	MOJO_T2	0	0	0	0	0	0	-0.61	-0.66	0	0	0	0	0	0
8/21/2024 20:37	47802	MOCA_T2	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
8/21/2024 20:38	23403	HONE_T1	0	0	0	0	0	0	-0.74	-0.76	0	0	0	0	0	0
8/21/2024 20:56	57205	ROSS_T1	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
8/21/2024 20:56	55002	NEWP_T1	3	5	2	0.53	0.58	0.05	0	0	0	0	0	0	0	0
8/21/2024 20:56	55001	NEWP_T1	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
8/21/2024 20:58	40702	FFLD_T1	190	201	11	0.56	0.59	0.03	-0.65	-0.64	1	1	0	1200	1200	0
8/21/2024 20:58	40703	FFLD_T1	4	4	0	0.85	1	0.15	0	0	0	0	0	0	0	0
8/21/2024 20:58	40701	FFLD_T1	70	78	8	0.67	0.77	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:06	63501	HEID_TBK1-2	54	54	0	1.52	1.31	-0.21	0.57	0.49	0	0	0	0	0	0
8/21/2024 21:14	22805	HAUT_T2	0	0	0	0	0	0	-0.53	-0.5	0	0	0	0	0	0
8/21/2024 21:22	57403	SPAN_T1	17	36	19	0.25	0.34	0.09	0	0	0	0	0	0	0	0
8/21/2024 21:22	57401	SPAN_T1	2	2	0	1	1.15	0.15	-0.06	-0.13	1	1	0	600	600	0
8/21/2024 21:26	15603	NSTR_T2	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
8/21/2024 21:26	15601	NSTR_T2	3	3	0	0.43	0.73	0.3	0	0	0	0	0	0	0	0
8/21/2024 21:29	59202	THOM_T1	2	34	32	0.15	0.18	0.03	0	0	0	0	0	0	0	0
8/21/2024 21:29	59201	THOM_T1	1	12	11	0.1	0.22	0.12	0	0	0	0	0	0	0	0
8/21/2024 21:33	46002	BERW_T2	0	0	0	0	0	0	-1.05	-1.08	1	1	0	900	900	0
8/21/2024 21:34	22602	KIMB_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
8/21/2024 21:36	44702	MUNC_T2	80	14	-66	0.31	0.14	-0.17	0	0	0	0	0	0	0	0
8/21/2024 21:36	44701	MUNC_T2	201	124	-77	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
8/21/2024 21:36	44703	MUNC_T2	2	2	0	1	1.25	0.25	0.7	0.73	0	0	0	0	0	0
8/21/2024 21:39	10602	BLGL_T2	0	0	0	0	0	0	0.1	0.06	0	0	0	0	0	0
8/21/2024 21:39	45501	DERR_T2	0	3	3	0	0.3	0.3	0.15	-0.06	2	2	0	1800	1800	0
8/21/2024 21:40	44201	POIN_T1	0	0	0	0	0	0	-1.54	-1.55	2	2	0	2100	2100	0
8/21/2024 21:40	59002	MIFF_T1	5	6	1	0.56	0.4	-0.16	0	0	0	0	0	0	0	0
8/21/2024 21:40	59003	MIFF_T1	1	1	0	0.2	0	-0.2	1.29	0.59	0	0	0	0	0	0
8/21/2024 21:40	17805	GILB_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
8/21/2024 21:41	59003	MIFF_T1	1	1	0	0.2	0	-0.2	1.29	0.59	0	0	0	0	0	0
8/21/2024 21:41	45501	DERR_T2	0	3	3	0	0.3	0.3	0.15	-0.06	2	2	0	1800	1800	0
8/21/2024 21:41	59101	WALK_T2	0	0	0	0	0	0	1.03	1.06	1	1	0	600	600	0
8/21/2024 21:41	59201	THOM_T1	11	12	1	0.18	0.23	0.05	0	0	0	0	0	0	0	0
8/21/2024 21:41	47001	HUGH_T2	4	8	4	6.88	3.63	-3.25	-0.86	-0.88	0	0	0	0	0	0
8/21/2024 21:41	59202	THOM_T1	23	39	16	0.18	0.18	0	0	0	0	0	0	0	0	0
8/21/2024 21:41	59002	MIFF_T1	5	6	1	0.56	0.4	-0.16	0	0	0	0	0	0	0	0
8/21/2024 21:42	46302	ROHR_T1	6	7	1	1.58	1.49	-0.09	0	0	0	0	0	0	0	0
8/21/2024 21:42	23202	HIRU_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
8/21/2024 21:42	46301	ROHR_T1	90	180	90	0.29	0.33	0.04	0.21	0.22	0	0	0	0	0	0
8/21/2024 21:43	43202	MVIL_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
8/21/2024 21:43	42802	SELI_T1	1	1	0	0.2	0.6	0.4	-1.29	-1.19	1	1	0	900	900	0
8/21/2024 21:43	67402	WAKE_T2	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
8/21/2024 21:43	45501	DERR_T2	0	3	3	0	0.3	0.3	0.15	-0.06	2	2	0	1800	1800	0
8/21/2024 21:43	62604	ENGL_T1	0	0	0	0	0	0	0	-0.82	-0.81	1	1	600	600	0
8/21/2024 21:44	16402	MOPO_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
8/21/2024 21:44	44201	POIN_T1	0	0	0	0	0	0	-3.09	-3.1	4	4	0	4200	4200	0
8/21/2024 21:45	52402	GRPA_T2	4	4	0	0.95	1.08	0.13	0	0	0	0	0	0	0	0
8/21/2024 21:45	52403	GRPA_T2	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/21/2024 21:45	63602	LETO_T1	0	38	38	0	0.11	0.11	-0.27	-0.36	0	0	0	0	0	0
8/21/2024 21:45	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:45	52404	GRPA_T2	1	3	2	0.8	0.33	-0.47	-0.21	-0.24	0	0	0	0	0	0
8/21/2024 21:45	60701	BREC_T1	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
8/21/2024 21:46	17805	GILB_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
8/21/2024 21:46	44201	POIN_T1	0	0	0	0	0	0	-1.54	-1.55	2	2	0	2100	2100	0
8/21/2024 21:46	45501	DERR_T2	2	1	-1	0.5	0.4	-0.1	0.15	-0.06	2	2	0	1800	1800	0
8/21/2024 21:46	51002	NHAR_T1	1	1	0	2	1.9	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:46	65503	MOJO_T2	48	49	1	0.11	0.11	0	-0.16	-0.14	0	0	0	0	0	0
8/21/2024 21:46	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/21/2024 21:46	65502	MOJO_T2	213	217	4	0.15	0.16	0.01	0	0	0	0	0	0	0	0
8/21/2024 21:46	51004	NHAR_T1	1	1	0	5.6	5.6	0	-1.23	-1.23	0	0	0	0	0	0
8/21/2024 21:46	13501	MCMI_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
8/21/2024 21:46	46802	HEPB_T1	1	1	0	0.6	1	0.4	-0.23	-0.25	0	0	0	0	0	0
8/21/2024 21:47	17802	GILB_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
8/21/2024 21:47	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:47	13501	MCMI_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
8/21/2024 21:47	59101	WALK_T2	0	0	0	0	0	0	1.03	1.06	1	1	0	600	600	0
8/21/2024 21:47	42701	AUGU_T1	0	1	1	0	0.6	0.6	0	0	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/21/2024 21:47	67502	WEWI_T2	64	18	-46	0.15	0.18	0.03	-1.36	-1.35	1	1	0	900	900	0
8/21/2024 21:47	15702	TANN_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
8/21/2024 21:47	44201	POIN_T1	0	0	0	0	0	0	-1.54	-1.55	2	2	0	2100	2100	0
8/21/2024 21:47	26704	HEML_T2	0	0	0	0	0	0	-0.78	-0.76	1	1	0	1200	1200	0
8/21/2024 21:47	67503	WEWI_T2	1	1	0	8.3	8.4	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:48	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/21/2024 21:48	41702	LOGA_T2	95	114	19	0.45	0.53	0.08	0	0	0	0	0	0	0	0
8/21/2024 21:48	20601	GRWO_T2	1	0	-1	0.1	0	-0.1	0.99	0.99	0	0	0	0	0	0
8/21/2024 21:48	51204	MTON_T2	0	0	0	0	0	0	-0.34	-0.35	1	1	0	600	600	0
8/21/2024 21:48	66901	SHIL_T2	93	180	87	0.14	0.18	0.04	0	0	0	0	0	0	0	0
8/21/2024 21:48	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:48	11103	EGYP_T1	0	0	0	0	0	0	0.71	0.67	0	0	0	0	0	0
8/21/2024 21:48	52402	GRPA_T2	4	4	0	0.95	1.08	0.13	0	0	0	0	0	0	0	0
8/21/2024 21:48	60801	BUCK_T1	16	33	17	0.14	0.26	0.12	-0.2	-0.19	0	0	0	0	0	0
8/21/2024 21:48	40802	EXCH_T2	0	0	0	0	0	0	-0.26	-0.16	0	0	0	0	0	0
8/21/2024 21:48	60803	BUCK_T1	12	12	0	0.18	0.37	0.19	0	0	0	0	0	0	0	0
8/21/2024 21:48	52401	GRPA_T2	0	1	1	0	0.1	0.1	-0.45	-0.46	0	0	0	0	0	0
8/21/2024 21:48	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/21/2024 21:48	16402	MOPO_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
8/21/2024 21:48	17805	GILB_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
8/21/2024 21:48	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:48	66903	SHIL_T2	0	0	0	0	0	0	-0.9	-0.93	0	0	0	0	0	0
8/21/2024 21:48	52403	GRPA_T2	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/21/2024 21:48	52404	GRPA_T2	1	3	2	0.8	0.33	-0.47	0	0	0	0	0	0	0	0
8/21/2024 21:48	55101	WERT_T1	0	0	0	0	0	0	-1.55	-1.58	2	2	0	1800	1800	0
8/21/2024 21:48	44201	POIN_T1	0	0	0	0	0	0	-1.54	-1.55	2	2	0	2100	2100	0
8/21/2024 21:49	20401	ASHF_T2	4	6	2	0.48	0.38	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:49	60101	COCA_T1	0	0	0	0	0	0	0.54	0.5	0	0	0	0	0	0
8/21/2024 21:49	44703	MUNC_T2	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
8/21/2024 21:49	42002	MNVL_T2	1	1	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:49	16401	MOPO_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
8/21/2024 21:49	59302	MCAL_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/21/2024 21:49	12605	MACA_T1	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
8/21/2024 21:49	65004	NEFF_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
8/21/2024 21:49	42001	MNVL_T2	253	273	20	0.85	1.05	0.2	-0.25	-0.27	0	0	0	0	0	0
8/21/2024 21:49	28702	HAML_T2	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
8/21/2024 21:49	20403	ASHF_T2	0	1	1	0	0	0	0.14	0.13	0	0	0	0	0	0
8/21/2024 21:49	59301	MCAL_T1	2	2	0	0.65	0.55	-0.1	-1.32	-1.32	0	0	0	0	0	0
8/21/2024 21:49	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/21/2024 21:49	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:49	44702	MUNC_T2	1	26	25	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
8/21/2024 21:49	44701	MUNC_T2	16	223	207	0.14	0.21	0.07	0	0	0	0	0	0	0	0
8/21/2024 21:50	16006	DORN_T2	0	0	0	0	0	0	0.77	0.75	0	0	0	0	0	0
8/21/2024 21:50	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:50	42802	SELI_T1	0	1	1	0	0.6	0.6	-2.58	-2.39	2	2	0	1800	1800	0
8/21/2024 21:50	67502	WEWI_T2	64	18	-46	0.15	0.18	0.03	-1.36	-1.35	1	1	0	900	900	0
8/21/2024 21:50	62604	ENGL_T1	0	1	1	0	0	0	-0.82	-0.81	1	1	0	600	600	0
8/21/2024 21:50	44801	EDAN_T2	137	193	56	0.42	0.52	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:50	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:50	14101	TRUM_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
8/21/2024 21:50	22905	HARW_T1	0	0	0	0	0	0	-0.72	-0.76	0	0	0	0	0	0
8/21/2024 21:50	63402	HONY_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/21/2024 21:50	12604	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:50	59201	THOM_T1	12	12	0	0.22	0.22	0	0	0	0	0	0	0	0	0
8/21/2024 21:50	59202	THOM_T1	32	34	2	0.18	0.19	0.01	0	0	0	0	0	0	0	0
8/21/2024 21:50	60701	BREC_T1	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
8/21/2024 21:50	67503	WEWI_T2	1	1	0	8.3	8.4	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:50	64902	MILL_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
8/21/2024 21:50	11901	ETEX_T2	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
8/21/2024 21:50	16302	ALPA_T2	0	0	0	0	0	0	0.7	0.66	0	0	0	0	0	0
8/21/2024 21:50	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:50	62102	ELAN_T1	0	0	0	0	0	0	0.82	0.86	0	0	0	0	0	0
8/21/2024 21:50	57401	SPAN_T1	2	2	0	1.15	1.1	-0.05	-0.13	-0.19	1	1	0	600	600	0
8/21/2024 21:50	43504	WWIL_T1	11	15	4	0.23	0.37	0.14	0.6	0.57	0	0	0	0	0	0
8/21/2024 21:50	11104	EGYP_T1	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
8/21/2024 21:50	14102	TRUM_T2	1	1	0	2.8	2.6	-0.2	0	0	0	0	0	0	0	0
8/21/2024 21:50	55101	WERT_T1	0	0	0	0	0	0	-1.55	-1.58	2	2	0	1800	1800	0
8/21/2024 21:50	57403	SPAN_T1	36	37	1	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
8/21/2024 21:50	43506	WWIL_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
8/21/2024 21:50	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:50	43505	WWIL_T1	1	1	0	2.3	2.5	0.2	0	0	0	0	0	0	0	0
8/21/2024 21:50	48302	ORWI_T2	2	2	0	0.75	0.95	0.2	-0.08	-0.07	0	0	0	0	0	0
8/21/2024 21:50	63403	HONY_T2	0	0	0	0	0	0	-0.56	-0.58	1	1	0	600	600	0
8/21/2024 21:50	44802	EDAN_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
8/21/2024 21:51	60801	BUCK_T1	16	33	17	0.14	0.26	0.12	-0.19	-0.22	0	0	0	0	0	0
8/21/2024 21:51	43102	SMIL_T2	7	10	3	1.03	0.86	-0.17	0	0	0	0	0	0	0	0
8/21/2024 21:51	64204	KINZ_T1	1	5	4	1.1	0.38	-0.72	0	0	0	0	0	0	0	0
8/21/2024 21:51	46001	BERW_T1	1	0	-1	2.4	0	-2.4	-0.26	-0.31	0	0	0	0	0	0
8/21/2024 21:51	52004	LING_T2	2	2	0	5.9	6.2	0.3	0.18	0.17	0	0	0	0	0	0
8/21/2024 21:51	17805	GILB_T2	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
8/21/2024 21:51	13905	SEID_T1	0	0	0	0	0	0	-0.96	-0.98	1	1	0	1200	1200	0
8/21/2024 21:51	12807	MICK_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/21/2024 21:51	47203	FAXO_T2	0	0	0	0	0	0	-1.59	-0.28	1	1	0	1200	1200	0
8/21/2024 21:51	52002	LING_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/21/2024 21:51	48301	ORWI_T1	2	2	0	4.4	4.5	0.1	0.15	0.21	0	0	0	0	0	0
8/21/2024 21:51	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:51	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
8/21/2024 21:51	65802	RTWN_T2	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
8/21/2024 21:51	12801	MICK_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
8/21/2024 21:51	43108	SMIL_T2	0	3	3	0	0.23	0.23	-1.06	-1.11	1	1	0	1200	1200	0
8/21/2024 21:51	67805	WLAN_T1	299	427	128	0.18	0.22	0.04	-1.45	-1.49	0	0	0	0	0	0
8/21/2024 21:51	59302	MCAL_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/21/2024 21:51	60701	BREC_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
8/21/2024 21:51	45902	AUBU_T1	10	17	7	0.19	0.24	0.05	-1.12	-1.09	1	1	0	600	600	0
8/21/2024 21:51	43105	SMIL_T2	16	16	0	0.22	0.28	0.06	0	0	0	0	0	0	0	0
8/21/2024 21:51	67401	WAKE_T2	0	0	0	0	0	0	-0.93	-0.73	0	0	0	0	0	0
8/21/2024 21:51	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
8/21/2024 21:51	10504	CRAC_T1	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
8/21/2024 21:51	64202	KINZ_T1	3	3	0	0.37	0.67	0.3	0	0	0	0	0	0	0	0
8/21/2024 21:51	23001	SAJO_T1	0	0	0	0	0	0	0.11	0.07	0	0	0	0	0	0
8/21/2024 21:51	43103	SMIL_T2	18	22	4	0.62	0.63	0.01	0	0	0	0	0	0	0	0
8/21/2024 21:51	57401	SPAN_T1	2	2	0	1.15	1.1	-0.05	-0.13	-0.19	1	1	0	600	600	0
8/21/2024 21:51	59301	MCAL_T1	2	2	0	0.65	0.55	-0.1	-2.63	-2.65	0	0	0	0	0	0
8/21/2024 21:51	64201	KINZ_T1	3	5	2	0.17	0.4	0.23	-0.33	-0.28	2	2	0	1200	1200	0
8/21/2024 21:51	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
8/21/2024 21:51	57403	SPAN_T1	36	37	1	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
8/21/2024 21:51	60803	BUCK_T1	12	12	0	0.18	0.37	0.19	0	0	0	0	0	0	0	0
8/21/2024 21:51	47202	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:51	55101	WERT_T1	0	0	0	0	0	0	-1.55	-1.58	2	2	0	1800	1800	0
8/21/2024 21:51	52006	LING_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:51	55002	NEWP_T1	6	6	0	0.68	0.67	-0.01	-0.26	-0.26	0	0	0	0	0	0
8/21/2024 21:52	53902	HALI_T2	1	1	0	5.1	5.3	0.2	-0.18	-0.2	0	0	0	0	0	0
8/21/2024 21:52	62607	ENGL_T1	0	0	0	0	0	0	-1.98	-1.97	2	2	0	600	600	0
8/21/2024 21:52	21703	SUBU_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
8/21/2024 21:52	61501	EPET_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
8/21/2024 21:52	16302	ALPA_T2	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
8/21/2024 21:52	60501	NMAN_T2	14	14	0	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
8/21/2024 21:52	43102	SMIL_T2	7	10	3	1.03	0.86	-0.17	-0.85	-0.86	1	1	0	600	600	0
8/21/2024 21:52	66903	SHIL_T2	0	0	0	0	0	0	-0.93	-0.96	0	0	0	0	0	0
8/21/2024 21:52	43103	SMIL_T2	18	22	4	0.62	0.63	0.01	0	0	0	0	0	0	0	0
8/21/2024 21:52	11904	ETEX_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
8/21/2024 21:52	63401	HONY_T1	0	0	0	0	0	0	0.06	-0.12	1	1	0	600	600	0
8/21/2024 21:52	59101	WALK_T2	0	0	0	0	0	0	2.11	2.28	2	0	-2	1200	0	-1200
8/21/2024 21:52	53903	HALI_T2	2	2	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:52	55101	WERT_T1	0	0	0	0	0	0	-1.58	-1.63	2	2	0	1800	1800	0
8/21/2024 21:52	60502	NMAN_T2	0	0	0	0	0	0	-0.13	-0.22	0	0	0	0	0	0
8/21/2024 21:52	53501	EVIL_T2	1	2	1	1	1.05	0.05	-0.01	-0.01	1	1	0	600	600	0
8/21/2024 21:52	21701	SUBU_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
8/21/2024 21:52	21705	SUBU_T1	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:52	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
8/21/2024 21:52	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:52	48301	ORWI_T1	2	2	0	4.4	4.5	0.1	0.15	0.21	0	0	0	0	0	0
8/21/2024 21:52	65001	NEFF_T2	0	0	0	0	0	0	-0.91	-0.91	1	1	0	1200	1200	0
8/21/2024 21:52	65604	QVIL_T2	0	1	1	0	0.1	0.1	0.35	0.33	0	0	0	0	0	0
8/21/2024 21:52	43105	SMIL_T2	16	16	0	0.22	0.28	0.06	0	0	0	0	0	0	0	0
8/21/2024 21:52	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:52	66901	SHIL_T2	93	180	87	0.14	0.18	0.04	0	0	0	0	0	0	0	0
8/21/2024 21:52	60101	COCA_T1	0	0	0	0	0	0	0.25	0.3	0	0	0	0	0	0
8/21/2024 21:52	48302	ORWI_T2	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
8/21/2024 21:52	67402	WAKE_T2	0	0	0	0	0	0	0.24	0.2	0	0	0	0	0	0
8/21/2024 21:52	65601	QVIL_T2	0	63	63	0	0.16	0.16	0	0	0	0	0	0	0	0
8/21/2024 21:52	10705	CATA_T2	0	0	0	0	0	0	-3.85	0.11	0	0	0	0	0	0
8/21/2024 21:52	51402	LYKE_T1	0	0	0	0	0	0	-1.33	-1.39	1	1	0	600	600	0
8/21/2024 21:52	52101	MEIS_T1	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
8/21/2024 21:52	64902	MILL_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
8/21/2024 21:52	53901	HALI_T2	2	3	1	0.75	0.67	-0.08	-1.25	-1.24	0	0	0	0	0	0
8/21/2024 21:52	67203	TEHI_T1	0	0	0	0	0	0	2.21	2.08	2	2	0	1500	1500	0
8/21/2024 21:52	43108	SMIL_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
8/21/2024 21:52	12001	HATF_T1	0	0	0	0	0	0	1.14	-0.25	1	2	1	600	1800	1200
8/21/2024 21:52	62604	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:52	63404	HONY_T1	7	11	4	0.1	0.13	0.03	0	0	0	0	0	0	0	0
8/21/2024 21:52	61504	EPET_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
8/21/2024 21:52	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:52	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:53	47002	HUGH_T2	0	11	11	0	0.22	0.22	-0.74	-0.71	0	0	0	0	0	0
8/21/2024 21:53	16006	DORN_T2	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
8/21/2024 21:53	45602	WOOL_T1	0	2	2	0	0.2	0.2	0.62	0.61	0	0	0	0	0	0
8/21/2024 21:53	42802	SELI_T1	0	1	1	0	0.6	0.6	-4.77	-5.48	4	4	0	3600	3600	0
8/21/2024 21:53	45902	AUBU_T1	10	17	7	0.19	0.24	0.05	-1.12	-1.09	1	1	0	600	600	0
8/21/2024 21:53	10705	CATA_T2	0	0	0	0	0	0	-1.28	0.04	0	0	0	0	0	0
8/21/2024 21:53	47001	HUGH_T2	5	47	42	1.84	0.41	-1.43	0	0	0	0	0	0	0	0
8/21/2024 21:53	67805	WLAN_T1	299	427	128	0.18	0.22	0.04	0	0	0	0	0	0	0	0
8/21/2024 21:53	15202	SFAR_T1	0	0	0	0	0	0	-0.25	-0.26	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/21/2024 21:53	53901	HALI_T2	2	3	1	0.75	0.67	-0.08	-2.5	-2.48	0	0	0	0	0	0
8/21/2024 21:53	14203	EALL_T1	0	0	0	0	0	0	-0.27	-0.21	1	1	0	1200	1200	0
8/21/2024 21:53	60201	ATGL_T2	0	38	38	0	0.16	0.16	-0.04	-0.12	0	0	0	0	0	0
8/21/2024 21:53	60101	COCA_T1	0	0	0	0	0	0	0.25	0.3	0	0	0	0	0	0
8/21/2024 21:53	11903	ETEX_T1	0	0	0	0	0	0	0.95	0.87	0	0	0	0	0	0
8/21/2024 21:53	14801	TREI_T2	1	2	1	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:53	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
8/21/2024 21:53	53802	MBRG_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
8/21/2024 21:53	43103	SMIL_T2	18	22	4	0.62	0.63	0.01	0	0	0	0	0	0	0	0
8/21/2024 21:53	53902	HALI_T2	1	1	0	5.1	5.3	0.2	-0.18	-0.2	0	0	0	0	0	0
8/21/2024 21:53	14802	TREI_T2	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
8/21/2024 21:53	55405	SHER_T1	6	11	5	0.58	0.63	0.05	-0.17	-0.17	0	0	0	0	0	0
8/21/2024 21:53	23203	HIRU_T2	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
8/21/2024 21:53	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:53	64802	MONE_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
8/21/2024 21:53	67702	WERN_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
8/21/2024 21:53	67602	WARW_T2	0	0	0	0	0	0	0.2	0.54	1	0	-1	300	0	-300
8/21/2024 21:53	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
8/21/2024 21:53	43102	SMIL_T2	7	10	3	1.03	0.86	-0.17	-0.85	-0.86	1	1	0	600	600	0
8/21/2024 21:53	44201	POIN_T1	0	0	0	0	0	0	-1.55	-1.56	2	2	0	2100	2100	0
8/21/2024 21:53	67605	WARW_T1	19	23	4	0.63	0.6	-0.03	-1.12	-1.14	0	0	0	0	0	0
8/21/2024 21:53	53903	HALI_T2	2	2	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:53	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:53	14202	EALL_T2	3	3	0	0.23	0.5	0.27	0	0	0	0	0	0	0	0
8/21/2024 21:53	66402	ROBE_T1	0	0	0	0	0	0	-0.64	-0.77	2	2	0	1500	1500	0
8/21/2024 21:53	44802	EDAN_T2	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
8/21/2024 21:53	59101	WALK_T2	0	0	0	0	0	0	1.06	1.14	1	0	-1	600	0	-600
8/21/2024 21:53	44801	EDAN_T2	137	193	56	0.42	0.52	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:53	43108	SMIL_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
8/21/2024 21:53	60701	BREC_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
8/21/2024 21:53	43105	SMIL_T2	16	16	0	0.22	0.28	0.06	0	0	0	0	0	0	0	0
8/21/2024 21:53	45801	HEGI_T1	0	0	0	0	0	0	-0.17	-0.17	1	1	0	900	900	0
8/21/2024 21:53	66401	ROBE_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:53	67803	WLAN_T1	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
8/21/2024 21:54	20401	ASHF_T2	4	6	2	0.48	0.38	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:54	60501	NMAN_T2	14	14	0	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
8/21/2024 21:54	54201	PENN_T1	16	18	2	0.69	0.71	0.02	-0.93	-0.94	0	0	0	0	0	0
8/21/2024 21:54	25501	MADI_T1	3	3	0	1.07	1.2	0.13	0	0	0	0	0	0	0	0
8/21/2024 21:54	52404	GRPA_T2	1	3	2	0.8	0.33	-0.47	0	0	0	0	0	0	0	0
8/21/2024 21:54	52402	GRPA_T2	4	4	0	0.95	1.08	0.13	-0.7	-0.73	0	0	0	0	0	0
8/21/2024 21:54	66504	SMAN_T2	0	0	0	0	0	0	-0.37	-0.44	0	0	0	0	0	0
8/21/2024 21:54	12807	MICK_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/21/2024 21:54	46801	HEPB_T2	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:54	13301	ORVI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:54	24702	FLND_T2	0	0	0	0	0	0	0.6	0.64	1	1	0	1200	1200	0
8/21/2024 21:54	66901	SHIL_T2	93	180	87	0.14	0.18	0.04	-1.67	-1.72	1	1	0	1200	1200	0
8/21/2024 21:54	64902	MILL_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
8/21/2024 21:54	20403	ASHF_T2	0	1	1	0	0	0	0.13	0.07	0	0	0	0	0	0
8/21/2024 21:54	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:54	52403	GRPA_T2	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/21/2024 21:54	50502	MECH_T1	3	2	-1	0.97	1.35	0.38	0	0	0	0	0	0	0	0
8/21/2024 21:54	45501	DERR_T2	2	1	-1	0.5	0.4	-0.1	-0.12	-0.01	4	4	0	3600	3600	0
8/21/2024 21:54	51305	WIND_T1	0	0	0	0	0	0	0.1	0.14	0	0	0	0	0	0
8/21/2024 21:54	47401	PENS_T1	0	0	0	0	0	0	1	0.99	0	0	0	0	0	0
8/21/2024 21:54	14204	EALL_T2	0	0	0	0	0	0	0.39	0.5	0	0	0	0	0	0
8/21/2024 21:54	20601	GRWO_T2	1	0	-1	0.1	0	-0.1	0.99	0.97	0	0	0	0	0	0
8/21/2024 21:54	26402	INOR_T1	0	0	0	0	0	0	-1.94	-2.02	1	1	0	600	600	0
8/21/2024 21:54	13303	ORVI_T1	0	0	0	0	0	0	0.91	-0.49	0	0	0	0	0	0
8/21/2024 21:54	13002	NBET_T2	0	0	0	0	0	0	-1.62	-1.65	2	2	0	2400	2400	0
8/21/2024 21:54	61701	ELIZ_T1	1	1	0	3.2	3.8	0.6	0	0	0	0	0	0	0	0
8/21/2024 21:54	21704	SUBU_T1	0	0	0	0	0	0	-2.57	-2.6	2	2	0	2400	2400	0
8/21/2024 21:54	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
8/21/2024 21:54	66505	SMAN_T2	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0	0
8/21/2024 21:54	65702	RVIL_T2	0	0	0	0	0	0	-0.59	-0.54	1	1	0	600	600	0
8/21/2024 21:54	61703	ELIZ_T1	0	0	0	0	0	0	-4.83	-4.94	4	4	0	4200	4200	0
8/21/2024 21:54	49803	UNIV_T1	1	1	0	5	4.6	-0.4	-2.21	-2.36	0	0	0	0	0	0
8/21/2024 21:54	12604	MACA_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
8/21/2024 21:54	11507	FREE_T2	0	0	0	0	0	0	0.75	1.15	0	0	0	0	0	0
8/21/2024 21:54	53601	DALM_T2	0	2	2	0	0.5	0.5	0.38	0.56	0	0	0	0	0	0
8/21/2024 21:54	53502	EVIL_T2	0	1	1	0	0	0	-0.2	-0.19	1	1	0	600	600	0
8/21/2024 21:54	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:54	67805	WLAN_T1	299	427	128	0.18	0.22	0.04	0	0	0	0	0	0	0	0
8/21/2024 21:54	49804	UNIV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/21/2024 21:54	63602	LETO_T1	0	38	38	0	0.11	0.11	-0.36	-0.29	0	0	0	0	0	0
8/21/2024 21:54	64204	KINZ_T1	1	5	4	1.1	0.38	-0.72	0	0	0	0	0	0	0	0
8/21/2024 21:54	12801	MICK_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
8/21/2024 21:54	44301	BEAV_T2	0	0	0	0	0	0	0.62	0.47	1	1	0	600	600	0
8/21/2024 21:54	43402	BENT_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
8/21/2024 21:54	14202	EALL_T2	3	3	0	0.23	0.5	0.27	0	0	0	0	0	0	0	0
8/21/2024 21:54	67502	WEWI_T2	64	18	-46	0.15	0.18	0.03	0	0	0	0	0	0	0	0
8/21/2024 21:54	54203	PENN_T1	18	18	0	1.01	1.12	0.11	0	0	0	0	0	0	0	0
8/21/2024 21:54	51303	WIND_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:54	64303	LINC_T1	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
8/21/2024 21:54	42902	MIDD_T2	0	0	0	0	0	0	-1.05	-1.03	1	1	0	600	600	0
8/21/2024 21:54	40802	EXCH_T2	0	0	0	0	0	0	-0.16	-0.23	0	0	0	0	0	0
8/21/2024 21:54	46803	HEPB_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
8/21/2024 21:54	65207	PRIN_T4	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:54	21701	SUBU_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
8/21/2024 21:54	64201	KINZ_T1	3	5	2	0.17	0.4	0.23	-0.33	-0.28	2	2	0	1200	1200	0
8/21/2024 21:54	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:54	64202	KINZ_T1	3	3	0	0.37	0.67	0.3	0	0	0	0	0	0	0	0
8/21/2024 21:54	64503	LAVI_T1	0	0	0	0	0	0	-0.55	-0.4	1	1	0	1200	1200	0
8/21/2024 21:54	40504	CRES_T1	0	0	0	0	0	0	-0.48	-0.52	0	0	0	0	0	0
8/21/2024 21:54	47403	PENS_T1	1	1	0	1.6	2.2	0.6	0	0	0	0	0	0	0	0
8/21/2024 21:54	26401	INOR_T1	1	1	0	9.2	9.7	0.5	0	0	0	0	0	0	0	0
8/21/2024 21:54	25503	MADI_T1	89	107	18	0.29	0.37	0.08	-1	-1.01	0	0	0	0	0	0
8/21/2024 21:54	67605	WARW_T1	19	23	4	0.63	0.6	-0.03	-1.12	-1.14	0	0	0	0	0	0
8/21/2024 21:54	60502	NMAN_T2	0	0	0	0	0	0	-0.13	-0.22	0	0	0	0	0	0
8/21/2024 21:54	24602	VARD_T2	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:54	21705	SUBU_T1	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:54	45502	DERR_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
8/21/2024 21:54	53501	EVIL_T2	1	2	1	1	1.05	0.05	-0.01	-0.01	1	1	0	600	600	0
8/21/2024 21:54	60102	COCA_T1	0	0	0	0	0	0	-0.13	0.1	2	2	0	1200	1200	0
8/21/2024 21:54	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:54	24603	VARD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:54	40505	CRES_T1	3	3	0	5.53	6.07	0.54	0	0	0	0	0	0	0	0
8/21/2024 21:54	50501	MECH_T1	4	4	0	0.65	0.53	-0.12	0.3	0.5	0	0	0	0	0	0
8/21/2024 21:54	67804	WLAN_T1	0	0	0	0	0	0	-0.97	-1.01	0	0	0	0	0	0
8/21/2024 21:54	65205	PRIN_T1	1	11	10	2	0.28	-1.72	0	0	0	0	0	0	0	0
8/21/2024 21:54	55101	WERT_T1	0	0	0	0	0	0	-3.15	-3.26	4	4	0	3600	3600	0
8/21/2024 21:54	65206	PRIN_T4	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
8/21/2024 21:54	42903	MIDD_T2	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/21/2024 21:54	67503	WEWI_T2	1	1	0	8.3	8.4	0.1	0.12	0.1	0	0	0	0	0	0
8/21/2024 21:54	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:54	14801	TREI_T2	1	2	1	0.7	0.8	0.1	1.14	-1.82	0	0	0	0	0	0
8/21/2024 21:54	21901	HUMB_T1	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
8/21/2024 21:55	66504	SMAN_T2	0	0	0	0	0	0	-0.75	-0.89	0	0	0	0	0	0
8/21/2024 21:55	43102	SMIL_T2	7	10	3	1.03	0.86	-0.17	-0.85	-0.86	1	1	0	600	600	0
8/21/2024 21:55	52002	LING_T2	1	1	0	0.1	0.5	0.4	0.09	0.01	0	0	0	0	0	0
8/21/2024 21:55	53501	EVIL_T2	1	2	1	1	1.05	0.05	-0.01	-0.01	1	1	0	600	600	0
8/21/2024 21:55	53902	HALI_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
8/21/2024 21:55	63401	HONY_T1	0	0	0	0	0	0	0.06	-0.12	1	1	0	600	600	0
8/21/2024 21:55	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
8/21/2024 21:55	66903	SHIL_T2	0	0	0	0	0	0	-0.93	-0.96	0	0	0	0	0	0
8/21/2024 21:55	41001	LAUR_T2	0	75	75	0	0.37	0.37	0	0	0	0	0	0	0	0
8/21/2024 21:55	59201	THOM_T1	12	12	0	0.22	0.22	0	0	0	0	0	0	0	0	0
8/21/2024 21:55	67605	WARW_T1	19	23	4	0.63	0.6	-0.03	-1.12	-1.14	0	0	0	0	0	0
8/21/2024 21:55	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:55	63803	HEMP_T1	0	0	0	0	0	0	0.79	0.81	0	0	0	0	0	0
8/21/2024 21:55	42802	SELI_T1	0	1	1	0	0.6	0.6	-2.39	-2.74	2	2	0	1800	1800	0
8/21/2024 21:55	63602	LETO_T1	0	38	38	0	0.11	0.11	0	0	0	0	0	0	0	0
8/21/2024 21:55	66901	SHIL_T2	93	180	87	0.14	0.18	0.04	0	0	0	0	0	0	0	0
8/21/2024 21:55	62102	ELAN_T1	0	0	0	0	0	0	1.71	1.5	0	0	0	0	0	0
8/21/2024 21:55	63601	LETO_T1	0	0	0	0	0	0	0.49	0.51	2	2	0	2100	2100	0
8/21/2024 21:55	60502	NMAN_T2	0	0	0	0	0	0	-0.13	-0.22	0	0	0	0	0	0
8/21/2024 21:55	16102	BING_T2	0	0	0	0	0	0	0.95	0.88	0	0	0	0	0	0
8/21/2024 21:55	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
8/21/2024 21:55	52404	GRPA_T2	1	3	2	0.8	0.33	-0.47	0	0	0	0	0	0	0	0
8/21/2024 21:55	41901	REED_T1	9	9	0	0.54	0.52	-0.02	0	0	0	0	0	0	0	0
8/21/2024 21:55	45902	AUBU_T1	10	17	7	0.19	0.24	0.05	0	0	0	0	0	0	0	0
8/21/2024 21:55	16302	ALPA_T2	0	0	0	0	0	0	1.31	1.25	0	0	0	0	0	0
8/21/2024 21:55	51304	WIND_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
8/21/2024 21:55	15202	SFAR_T1	0	0	0	0	0	0	-0.25	-0.26	1	1	0	1200	1200	0
8/21/2024 21:55	40502	CRES_T2	14	34	20	0.25	0.26	0.01	-0.42	-0.44	0	0	0	0	0	0
8/21/2024 21:55	43108	SMIL_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
8/21/2024 21:55	67502	WEWI_T2	64	18	-46	0.15	0.18	0.03	-1.35	-1.38	1	1	0	900	900	0
8/21/2024 21:55	46801	HEPB_T2	2	2	0	0.5	0.6	0.1	0.56	0.57	0	0	0	0	0	0
8/21/2024 21:55	67503	WEWI_T2	1	1	0	8.3	8.4	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:55	52403	GRPA_T2	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/21/2024 21:55	43103	SMIL_T2	18	22	4	0.62	0.63	0.01	0	0	0	0	0	0	0	0
8/21/2024 21:55	47901	HRDG_T1	0	0	0	0	0	0	1.2	1.18	0	0	0	0	0	0
8/21/2024 21:55	63501	HEID_TBK1-2	55	55	0	1.29	1.27	-0.02	0.41	0.44	0	0	0	0	0	0
8/21/2024 21:55	29402	BELT_T1	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:55	10705	CATA_T2	0	0	0	0	0	0	-1.28	0.04	0	0	0	0	0	0
8/21/2024 21:55	64902	MILL_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
8/21/2024 21:55	59202	THOM_T1	32	34	2	0.18	0.19	0.01	0	0	0	0	0	0	0	0
8/21/2024 21:55	11104	EGYP_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
8/21/2024 21:55	51004	NHAR_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
8/21/2024 21:55	51002	NHAR_T1	1	1	0	2	1.9	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:55	43105	SMIL_T2	16	16	0	0.22	0.28	0.06	0	0	0	0	0	0	0	0
8/21/2024 21:55	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/21/2024 21:55	41002	LAUR_T2	1	50	49	2.4	0.37	-2.03	-0.95	-0.94	0	0	0	0	0	0
8/21/2024 21:55	14204	EALL_T2	0	0	0	0	0	0	0.39	0.5	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/21/2024 21:55	56501	ROCK_T2	2	3	1	0.6	0.75	0.15	0.13	0.14	0	0	0	0	0	0
8/21/2024 21:55	60501	NMAN_T2	14	14	0	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
8/21/2024 21:55	63305	GREE_T1	15	0	-15	0.36	0	-0.36	0	0	0	0	0	0	0	0
8/21/2024 21:55	50501	MECH_T1	4	4	0	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
8/21/2024 21:55	53903	HALI_T2	2	2	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:55	67401	WAKE_T2	0	0	0	0	0	0	-0.93	-0.73	0	0	0	0	0	0
8/21/2024 21:55	29401	BELT_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
8/21/2024 21:55	53901	HALI_T2	2	3	1	0.75	0.67	-0.08	-2.5	-2.48	0	0	0	0	0	0
8/21/2024 21:55	63804	HEMP_T1	1	1	0	5.4	5.2	-0.2	-0.43	-0.47	0	0	0	0	0	0
8/21/2024 21:55	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:55	41903	REED_T1	0	0	0	0	0	0	-0.12	-0.21	1	1	0	1200	1200	0
8/21/2024 21:55	52402	GRPA_T2	4	4	0	0.95	1.08	0.13	-0.7	-0.73	0	0	0	0	0	0
8/21/2024 21:55	45901	AUBU_T1	0	0	0	0	0	0	1.85	1.84	0	0	0	0	0	0
8/21/2024 21:55	42601	TUSC_T1	0	0	0	0	0	0	-0.46	-0.48	1	1	0	600	600	0
8/21/2024 21:55	44801	EDAN_T2	137	193	56	0.42	0.52	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:55	67803	WLAN_T1	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
8/21/2024 21:55	13702	SCHN_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
8/21/2024 21:55	63304	GREE_T1	1	12	11	0.1	0.13	0.03	-1.72	-1.77	0	0	0	0	0	0
8/21/2024 21:55	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:55	12002	HATF_T1	0	0	0	0	0	0	0.36	-1.06	0	1	1	0	1200	1200
8/21/2024 21:55	55002	NEWP_T1	6	6	0	0.68	0.67	-0.01	-0.26	-0.26	0	0	0	0	0	0
8/21/2024 21:55	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:55	14202	EALL_T2	3	3	0	0.23	0.5	0.27	0	0	0	0	0	0	0	0
8/21/2024 21:55	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:55	67805	WLAN_T1	299	427	128	0.18	0.22	0.04	0	0	0	0	0	0	0	0
8/21/2024 21:55	52006	LING_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:55	66505	SMAN_T2	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0	0
8/21/2024 21:55	44802	EDAN_T2	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
8/21/2024 21:55	52004	LING_T2	2	2	0	5.9	6.2	0.3	0	0	0	0	0	0	0	0
8/21/2024 21:55	63404	HONY_T1	7	11	4	0.1	0.13	0.03	0	0	0	0	0	0	0	0
8/21/2024 21:55	50502	MECH_T1	3	2	-1	0.97	1.35	0.38	-0.35	-0.35	0	0	0	0	0	0
8/21/2024 21:55	24702	FLND_T2	0	0	0	0	0	0	0.6	0.64	1	1	0	1200	1200	0
8/21/2024 21:56	22905	HARW_T1	0	0	0	0	0	0	-0.76	-0.75	0	0	0	0	0	0
8/21/2024 21:56	42201	SHEN_T2	0	0	0	0	0	0	0.07	0.1	1	1	0	600	600	0
8/21/2024 21:56	42802	SELI_T1	0	1	1	0	0.6	0.6	-1.19	-1.37	1	1	0	900	900	0
8/21/2024 21:56	47401	PENS_T1	0	0	0	0	0	0	1	0.99	0	0	0	0	0	0
8/21/2024 21:56	61301	EARL_T1	0	0	0	0	0	0	-0.49	-0.49	1	1	0	900	900	0
8/21/2024 21:56	51304	WIND_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
8/21/2024 21:56	48902	FOSP_T2	0	0	0	0	0	0	-0.06	0.01	0	0	0	0	0	0
8/21/2024 21:56	60502	NMAN_T2	0	0	0	0	0	0	-0.13	-0.22	0	0	0	0	0	0
8/21/2024 21:56	57002	WHHI_T2	0	0	0	0	0	0	-0.06	-1.42	0	1	1	0	1200	1200
8/21/2024 21:56	10801	CHHI_T1	0	0	0	0	0	0	-1.44	-1.43	2	2	0	1500	1500	0
8/21/2024 21:56	60501	NMAN_T2	14	14	0	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
8/21/2024 21:56	50105	HARR_T3	6	6	0	5.72	5.57	-0.15	0	0	0	0	0	0	0	0
8/21/2024 21:56	64503	LAVI_T1	0	0	0	0	0	0	-0.55	-0.4	1	1	0	1200	1200	0
8/21/2024 21:56	43103	SMIL_T2	18	22	4	0.62	0.63	0.01	0	0	0	0	0	0	0	0
8/21/2024 21:56	17805	GILB_T2	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
8/21/2024 21:56	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:56	52402	GRPA_T2	4	4	0	0.95	1.08	0.13	-0.7	-0.73	0	0	0	0	0	0
8/21/2024 21:56	65205	PRIN_T1	1	11	10	2	0.28	-1.72	0	0	0	0	0	0	0	0
8/21/2024 21:56	43102	SMIL_T2	7	10	3	1.03	0.86	-0.17	-0.85	-0.86	1	1	0	600	600	0
8/21/2024 21:56	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:56	21703	SUBU_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
8/21/2024 21:56	50103	HARR_T3	2	2	0	0.2	0.65	0.45	0	0	1	1	0	1200	1200	0
8/21/2024 21:56	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:56	12002	HATF_T1	0	0	0	0	0	0	0.36	-1.06	0	1	1	0	1200	1200
8/21/2024 21:56	52403	GRPA_T2	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/21/2024 21:56	48301	ORWI_T1	2	2	0	4.4	4.5	0.1	0.15	0.21	0	0	0	0	0	0
8/21/2024 21:56	50107	HARR_T3	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
8/21/2024 21:56	43108	SMIL_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
8/21/2024 21:56	43402	BENT_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
8/21/2024 21:56	12206	FOGE_T2	0	0	0	0	0	0	-0.57	-0.56	2	2	0	2100	2100	0
8/21/2024 21:56	21705	SUBU_T1	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:56	13101	NHAM_T1	0	0	0	0	0	0	-2.21	-2.24	2	2	0	2400	2400	0
8/21/2024 21:56	21701	SUBU_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
8/21/2024 21:56	56501	ROCK_T2	2	3	1	0.6	0.75	0.15	0.13	0.14	0	0	0	0	0	0
8/21/2024 21:56	47403	PENS_T1	1	1	0	1.6	2.2	0.6	0	0	0	0	0	0	0	0
8/21/2024 21:56	43105	SMIL_T2	16	16	0	0.22	0.28	0.06	0	0	0	0	0	0	0	0
8/21/2024 21:56	52404	GRPA_T2	1	3	2	0.8	0.33	-0.47	0	0	0	0	0	0	0	0
8/21/2024 21:57	53601	DALM_T2	0	2	2	0	0.5	0.5	0.38	0.56	0	0	0	0	0	0
8/21/2024 21:57	61504	EPET_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
8/21/2024 21:57	66901	SHIL_T2	93	180	87	0.14	0.18	0.04	-1.67	-1.72	1	1	0	1200	1200	0
8/21/2024 21:57	66302	MCGO_T2	0	0	0	0	0	0	-1.56	-0.91	1	0	-1	600	0	-600
8/21/2024 21:57	44701	MUNC_T2	16	223	207	0.14	0.21	0.07	0	0	0	0	0	0	0	0
8/21/2024 21:57	44703	MUNC_T2	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
8/21/2024 21:57	61802	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:57	60201	ATGL_T2	0	38	38	0	0.16	0.16	0	0	0	0	0	0	0	0
8/21/2024 21:57	20403	ASHF_T2	0	1	1	0	0	0	0.13	0.07	0	0	0	0	0	0
8/21/2024 21:57	53901	HALI_T2	2	3	1	0.75	0.67	-0.08	-1.25	-1.24	0	0	0	0	0	0
8/21/2024 21:57	67605	WARW_T1	19	23	4	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
8/21/2024 21:57	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
8/21/2024 21:57	44702	MUNC_T2	1	26	25	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
8/21/2024 21:57	44301	BEAV_T2	0	0	0	0	0	0	0.62	0.47	1	1	0	600	600	0
8/21/2024 21:57	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:57	46001	BERW_T1	1	0	-1	2.4	0	-2.4	-0.26	-0.31	0	0	0	0	0	0
8/21/2024 21:57	53903	HALI_T2	2	2	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:57	54201	PENN_T1	16	18	2	0.69	0.71	0.02	-0.93	-0.94	0	0	0	0	0	0
8/21/2024 21:57	10707	CATA_T2	0	0	0	0	0	0	0.56	0.61	0	0	0	0	0	0
8/21/2024 21:57	66505	SMAN_T2	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0	0
8/21/2024 21:57	56501	ROCK_T2	2	3	1	0.6	0.75	0.15	0.25	0.27	0	0	0	0	0	0
8/21/2024 21:57	25402	LAHA_T2	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
8/21/2024 21:57	67805	WLAN_T1	299	427	128	0.18	0.22	0.04	0	0	0	0	0	0	0	0
8/21/2024 21:57	66303	MCGO_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/21/2024 21:57	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:57	67803	WLAN_T1	0	0	0	0	0	0	-1.55	-1.59	0	0	0	0	0	0
8/21/2024 21:57	67502	WEWI_T2	64	18	-46	0.15	0.18	0.03	-1.35	-1.38	1	1	0	900	900	0
8/21/2024 21:57	67602	WARW_T2	0	0	0	0	0	0	0.4	1.08	2	0	-2	600	0	-600
8/21/2024 21:57	20401	ASHF_T2	4	6	2	0.48	0.38	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:57	12807	MICK_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/21/2024 21:57	45802	HEGI_T2	46	48	2	1.21	1.58	0.37	0.62	0.59	0	0	0	0	0	0
8/21/2024 21:57	54203	PENN_T1	18	18	0	1.01	1.12	0.11	0	0	0	0	0	0	0	0
8/21/2024 21:57	57401	SPAN_T1	2	2	0	1.15	1.1	-0.05	-0.37	-0.82	2	2	0	1200	1200	0
8/21/2024 21:57	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
8/21/2024 21:57	57403	SPAN_T1	36	37	1	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
8/21/2024 21:57	61501	EPET_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
8/21/2024 21:57	16301	ALPA_T1	0	0	0	0	0	0	0.08	0.02	0	0	0	0	0	0
8/21/2024 21:57	53902	HALI_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
8/21/2024 21:57	13704	SCHN_T2	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
8/21/2024 21:57	11901	ETEX_T2	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
8/21/2024 21:57	67503	WEWI_T2	1	1	0	8.3	8.4	0.1	0.06	0.05	0	0	0	0	0	0
8/21/2024 21:57	66502	SMAN_T2	0	0	0	0	0	0	-0.06	0.17	0	0	0	0	0	0
8/21/2024 21:57	61803	EELI_T2	0	0	0	0	0	0	0.16	0.12	1	1	0	600	600	0
8/21/2024 21:57	12801	MICK_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
8/21/2024 21:57	10805	CHHI_T2	1	1	0	7.6	7.6	0	-1.38	-0.95	1	1	0	600	600	0
8/21/2024 21:57	46801	HEPB_T2	2	2	0	0.5	0.6	0.1	0.56	0.57	0	0	0	0	0	0
8/21/2024 21:58	45402	WBLO_T2	11	14	3	0.28	0.29	0.01	-0.77	-0.77	0	0	0	0	0	0
8/21/2024 21:58	46205	DANV_T2	0	0	0	0	0	0	-0.85	-0.84	1	1	0	1200	1200	0
8/21/2024 21:58	43202	MVIL_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
8/21/2024 21:58	58401	MORO_T1	0	0	0	0	0	0	-2.23	-2.28	2	2	0	1200	1200	0
8/21/2024 21:58	57004	WHHI_T2	0	0	0	0	0	0	-0.53	-0.58	0	0	0	0	0	0
8/21/2024 21:58	59301	MCAL_T1	2	2	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:58	21206	ECAR_T2	2	1	-1	4.15	8.2	4.05	-0.13	-0.2	0	0	0	0	0	0
8/21/2024 21:58	42501	ALTA_T2	0	0	0	0	0	0	-1.2	-1.21	1	1	0	600	600	0
8/21/2024 21:58	63501	HEID_TBX1-2	55	55	0	1.29	1.27	-0.02	0.41	0.44	0	0	0	0	0	0
8/21/2024 21:58	46203	DANV_T2	1	1	0	8.8	9.4	0.6	0	0	0	0	0	0	0	0
8/21/2024 21:58	60101	COCA_T1	0	0	0	0	0	0	0.25	0.3	0	0	0	0	0	0
8/21/2024 21:58	54603	SUMM_T2	2	1	-1	1.8	0	-1.8	0	0	0	0	0	0	0	0
8/21/2024 21:58	60701	BREC_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
8/21/2024 21:58	44802	EDAN_T2	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
8/21/2024 21:58	20401	ASHF_T2	4	6	2	0.48	0.38	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:58	42701	AUGU_T1	0	1	1	0	0.6	0.6	0	0	2	2	0	1800	1800	0
8/21/2024 21:58	46301	ROHR_T1	180	201	21	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
8/21/2024 21:58	54601	SUMM_T2	2	3	1	0.25	0.23	-0.02	-1.8	-1.83	2	2	0	2100	2100	0
8/21/2024 21:58	44302	BEAV_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
8/21/2024 21:58	20403	ASHF_T2	0	1	1	0	0	0	0.26	0.14	0	0	0	0	0	0
8/21/2024 21:58	46302	ROHR_T1	7	13	6	1.39	0.97	-0.42	0.13	0.13	0	0	0	0	0	0
8/21/2024 21:58	17804	GILB_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
8/21/2024 21:58	16103	BING_T2	0	0	0	0	0	0	-1.44	-1.5	1	1	0	900	900	0
8/21/2024 21:58	42902	MIDD_T2	0	0	0	0	0	0	-1.05	-1.03	1	1	0	600	600	0
8/21/2024 21:58	42503	ALTA_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
8/21/2024 21:58	21204	ECAR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:58	60501	NMAN_T2	14	14	0	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
8/21/2024 21:58	59302	MCAL_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/21/2024 21:58	42903	MIDD_T2	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/21/2024 21:58	61502	EPET_T1	0	0	0	0	0	0	-0.88	-0.78	0	0	0	0	0	0
8/21/2024 21:58	60502	NMAN_T2	0	0	0	0	0	0	-0.13	-0.22	0	0	0	0	0	0
8/21/2024 21:58	21202	ECAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:58	44801	EDAN_T2	137	193	56	0.42	0.52	0.1	-1.62	-1.64	0	0	0	0	0	0
8/21/2024 21:59	40901	JESH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:59	67805	WLAN_T1	299	427	128	0.18	0.22	0.04	0	0	0	0	0	0	0	0
8/21/2024 21:59	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:59	52403	GRPA_T2	2	2	0	0.3	0.7	0.4	0.06	0.01	0	0	0	0	0	0
8/21/2024 21:59	16302	ALPA_T2	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
8/21/2024 21:59	66505	SMAN_T2	3	3	0	0.17	0.17	0	0.42	0.19	1	1	0	900	900	0
8/21/2024 21:59	67803	WLAN_T1	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
8/21/2024 21:59	40902	JESH_T1	0	0	0	0	0	0	-1.55	-1.65	0	0	0	0	0	0
8/21/2024 21:59	67605	WARW_T1	19	23	4	0.63	0.6	-0.03	-1.12	-1.14	0	0	0	0	0	0
8/21/2024 21:59	53901	HALI_T2	2	3	1	0.75	0.67	-0.08	-1.25	-1.24	0	0	0	0	0	0
8/21/2024 21:59	24201	PROV_T3	1	1	0	7.3	6.9	-0.4	-0.11	-0.1	0	0	0	0	0	0
8/21/2024 21:59	61103	BERK_T5	0	0	0	0	0	0	0.1	-0.5	0	0	0	0	0	0
8/21/2024 21:59	50105	HARR_T3	6	6	0	5.72	5.57	-0.15	0	0	0	0	0	0	0	0
8/21/2024 21:59	14802	TREI_T2	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
8/21/2024 21:59	53902	HALI_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/21/2024 21:59	14801	TREI_T2	1	2	1	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/21/2024 21:59	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/21/2024 21:59	52402	GRPA_T2	4	4	0	0.95	1.08	0.13	0	0	0	0	0	0	0	0
8/21/2024 21:59	57403	SPAN_T1	36	37	1	0.34	0.32	-0.02	0.07	0.05	0	0	0	0	0	0
8/21/2024 21:59	50103	HARR_T3	2	2	0	0.2	0.65	0.45	0	0	1	1	0	1200	1200	0
8/21/2024 21:59	60903	DONG_T2	75	8	-67	0.17	0.11	-0.06	0	0	0	0	0	0	0	0
8/21/2024 21:59	51603	DUKE_T1	0	0	0	0	0	0	-0.28	-0.32	0	0	0	0	0	0
8/21/2024 21:59	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 21:59	57401	SPAN_T1	2	2	0	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
8/21/2024 21:59	43102	SMIL_T2	7	10	3	1.03	0.86	-0.17	0	0	0	0	0	0	0	0
8/21/2024 21:59	58401	MORO_T1	0	0	0	0	0	0	-1.11	-1.14	1	1	0	600	600	0
8/21/2024 21:59	46101	MACI_T2	0	0	0	0	0	0	0.72	0.69	0	0	0	0	0	0
8/21/2024 21:59	12006	HATF_T1	0	0	0	0	0	0	1.11	-0.25	0	1	1	0	1200	1200
8/21/2024 21:59	53903	HALI_T2	2	2	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:59	63602	LETO_T1	0	38	38	0	0.11	0.11	-0.36	-0.29	0	0	0	0	0	0
8/21/2024 21:59	46004	BERW_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
8/21/2024 21:59	10705	CATA_T2	0	0	0	0	0	0	-1.28	0.04	0	0	0	0	0	0
8/21/2024 21:59	42903	MIDD_T2	2	2	0	0.1	0.4	0.3	-0.58	-1.26	1	1	0	1200	1200	0
8/21/2024 21:59	56501	ROCK_T2	2	3	1	0.6	0.75	0.15	0.13	0.14	0	0	0	0	0	0
8/21/2024 21:59	60502	NMAN_T2	0	0	0	0	0	0	-0.13	-0.22	0	0	0	0	0	0
8/21/2024 21:59	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
8/21/2024 21:59	42902	MIDD_T2	0	0	0	0	0	0	-1.05	-1.03	1	1	0	600	600	0
8/21/2024 21:59	67602	WARW_T2	0	0	0	0	0	0	0.2	0.54	1	0	-1	300	0	-300
8/21/2024 21:59	60501	NMAN_T2	14	14	0	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
8/21/2024 21:59	43101	SMIL_T2	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
8/21/2024 21:59	60902	DONG_T2	4	1	-3	0.15	0.1	-0.05	0.8	0.79	0	0	0	0	0	0
8/21/2024 21:59	46504	LOHA_T1	2	2	0	0.6	1.15	0.55	0	0	0	0	0	0	0	0
8/21/2024 21:59	52404	GRPA_T2	1	3	2	0.8	0.33	-0.47	0	0	0	0	0	0	0	0
8/21/2024 21:59	24204	PROV_T3	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:59	43105	SMIL_T2	16	16	0	0.22	0.28	0.06	0	0	0	0	0	0	0	0
8/21/2024 21:59	42802	SELI_T1	0	1	1	0	0.6	0.6	-1.19	-1.37	1	1	0	900	900	0
8/21/2024 21:59	50107	HARR_T3	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
8/21/2024 21:59	60901	DONG_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/21/2024 21:59	43108	SMIL_T2	0	3	3	0	0.23	0.23	-1.06	-1.11	1	1	0	1200	1200	0
8/21/2024 21:59	64503	LAVI_T1	0	0	0	0	0	0	-0.55	-0.4	1	1	0	1200	1200	0
8/21/2024 21:59	43103	SMIL_T2	18	22	4	0.62	0.63	0.01	0	0	0	0	0	0	0	0
8/21/2024 21:59	40502	CRES_T2	14	34	20	0.25	0.26	0.01	0	0	0	0	0	0	0	0
8/21/2024 22:00	60701	BREC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:00	67605	WARW_T1	23	5	-18	0.6	0.3	-0.3	-1.12	-1.14	0	0	0	0	0	0
8/21/2024 22:00	67501	WEWI_T1	0	0	0	0	0	0	-1.15	-1.17	1	1	0	600	600	0
8/21/2024 22:00	60501	NMAN_T2	14	0	-14	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/21/2024 22:00	57303	MOAL_T2	1	1	0	7.4	7.9	0.5	0	0	0	0	0	0	0	0
8/21/2024 22:00	65901	SAKR_T2	1	1	0	9.6	8	-1.6	0	0	0	0	0	0	0	0
8/21/2024 22:00	42001	MNVL_T2	265	280	15	0.99	1.11	0.12	0	0	0	0	0	0	0	0
8/21/2024 22:00	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:00	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
8/21/2024 22:00	12701	MACU_T1	4	4	0	1	0.75	-0.25	0.06	0.05	0	0	0	0	0	0
8/21/2024 22:00	67602	WARW_T2	0	0	0	0	0	0	0.2	0.54	1	0	-1	300	0	-300
8/21/2024 22:00	44801	EDAN_T2	148	226	78	0.43	0.51	0.08	-1.62	-1.64	0	0	0	0	0	0
8/21/2024 22:00	60502	NMAN_T2	0	0	0	0	0	0	-0.13	-0.22	0	0	0	0	0	0
8/21/2024 22:00	58705	ROSE_T2	5	5	0	2.42	1.84	-0.58	0	0	0	0	0	0	0	0
8/21/2024 22:00	46102	MACI_T1	0	0	0	0	0	0	0.78	0.79	0	0	0	0	0	0
8/21/2024 22:00	61801	EELI_T2	0	0	0	0	0	0	-0.97	-0.98	1	1	0	600	600	0
8/21/2024 22:00	58701	ROSE_T2	0	0	0	0	0	0	-0.14	-0.11	1	1	0	600	600	0
8/21/2024 22:00	42002	MNVL_T2	1	2	1	1.5	0.6	-0.9	0.3	0.31	0	0	0	0	0	0
8/21/2024 22:00	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:00	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:00	42802	SELI_T1	2	1	-1	2.55	0.3	-2.25	-1.19	-1.37	1	1	0	900	900	0
8/21/2024 22:00	40501	CRES_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
8/21/2024 22:00	65904	SAKR_T2	0	0	0	0	0	0	-1.85	-1.6	2	2	0	900	900	0
8/21/2024 22:00	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/21/2024 22:00	10805	OHHI_T2	1	1	0	7.6	8.1	0.5	-1.38	-0.95	1	1	0	600	600	0
8/21/2024 22:00	12001	HATF_T1	0	0	0	0	0	0	1.14	-0.25	1	2	1	600	1800	1200
8/21/2024 22:00	66901	SHIL_T2	180	0	-180	0.18	0	-0.18	0	0	0	0	0	0	0	0
8/21/2024 22:00	11104	EGYP_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
8/21/2024 22:00	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:00	54504	ENOL_T2	0	0	0	0	0	0	-1.05	-1.05	1	1	0	600	600	0
8/21/2024 22:00	57302	MOAL_T2	0	0	0	0	0	0	-1.53	-1.57	1	1	0	1200	1200	0
8/21/2024 22:00	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:00	66903	SHIL_T2	0	0	0	0	0	0	-1.87	-1.93	0	0	0	0	0	0
8/21/2024 22:00	66502	SMAN_T2	0	0	0	0	0	0	-0.06	0.17	0	0	0	0	0	0
8/21/2024 22:00	42501	ALTA_T2	0	0	0	0	0	0	-1.2	-1.21	1	1	0	600	600	0
8/21/2024 22:00	66505	SMAN_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
8/21/2024 22:00	53501	EVIL_T2	2	2	0	0.95	1.05	0.1	-0.02	-0.02	3	3	0	1800	1800	0
8/21/2024 22:00	65903	SAKR_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/21/2024 22:00	48301	ORWI_T1	2	2	0	4.5	4.5	0	0.15	0.21	0	0	0	0	0	0
8/21/2024 22:00	54505	ENOL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/21/2024 22:00	40502	CRES_T2	34	29	-5	0.26	0.23	-0.03	-0.42	-0.44	0	0	0	0	0	0
8/21/2024 22:01	64202	KINZ_T1	3	3	0	0.67	0.57	-0.1	0	0	0	0	0	0	0	0
8/21/2024 22:01	43801	SWIL_T1	61	20	-41	0.31	0.52	0.21	0	0	0	0	0	0	0	0
8/21/2024 22:01	13704	SCHN_T2	0	5	5	0	0.14	0.14	-0.76	-0.81	0	0	0	0	0	0
8/21/2024 22:01	60102	COCA_T1	0	0	0	0	0	0	-0.13	0.1	2	2	0	1200	1200	0
8/21/2024 22:01	40901	JESH_T1	0	0	0	0	0	0	0.28	0.31	0	0	0	0	0	0
8/21/2024 22:01	57505	LAWN_T3	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
8/21/2024 22:01	66303	MCGO_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/21/2024 22:01	57403	SPAN_T1	37	5	-32	0.32	0.12	-0.2	0.07	0.05	0	0	0	0	0	0
8/21/2024 22:01	57401	SPAN_T1	2	2	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
8/21/2024 22:01	43802	SWIL_T1	0	0	0	0	0	0	-0.09	-0.11	1	1	0	600	600	0
8/21/2024 22:01	45501	DERR_T2	1	1	0	0.3	0.4	0.1	-0.06	-0.01	2	2	0	1800	1800	0
8/21/2024 22:01	54601	SUMM_T2	2	8	6	0.2	0.26	0.06	-1.8	-1.83	2	2	0	2100	2100	0
8/21/2024 22:01	64203	KINZ_T1	0	0	0	0	0	0	-0.01	0.07	1	1	0	600	600	0
8/21/2024 22:01	54206	PENN_T2	0	0	0	0	0	0	-0.29	0	0	0	0	0	0	0
8/21/2024 22:01	64201	KINZ_T1	5	7	2	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
8/21/2024 22:01	45802	HEGI_T2	48	48	0	1.58	1.86	0.28	0.62	0.59	0	0	0	0	0	0
8/21/2024 22:01	63404	HONY_T1	11	0	-11	0.13	0	-0.13	0	0	0	0	0	0	0	0
8/21/2024 22:01	54603	SUMM_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:01	63804	HEMP_T1	1	1	0	5.3	5.1	-0.2	-0.43	-0.47	0	0	0	0	0	0
8/21/2024 22:01	23001	SAJO_T1	0	0	0	0	0	0	0.11	0.07	0	0	0	0	0	0
8/21/2024 22:01	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:01	64204	KINZ_T1	5	17	12	0.38	0.19	-0.19	0	0	0	0	0	0	0	0
8/21/2024 22:01	67203	TEHI_T1	0	0	0	0	0	0	2.21	2.08	2	2	0	1500	1500	0
8/21/2024 22:01	66302	MCGO_T2	0	0	0	0	0	0	-1.56	-0.91	1	0	-1	600	0	-600
8/21/2024 22:01	67602	WARW_T2	0	0	0	0	0	0	0.2	0.54	1	0	-1	300	0	-300
8/21/2024 22:01	63401	HONY_T1	0	0	0	0	0	0	0.06	-0.12	1	1	0	600	600	0
8/21/2024 22:01	56501	ROCK_T2	2	3	1	0.75	0.47	-0.28	0.13	0.14	0	0	0	0	0	0
8/21/2024 22:02	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:02	16004	DORN_T1	0	0	0	0	0	0	-1.01	-1.08	1	1	0	1200	1200	0
8/21/2024 22:02	20601	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:02	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:02	58401	MORO_T1	0	0	0	0	0	0	-1.11	-1.14	1	1	0	600	600	0
8/21/2024 22:02	43202	MVIL_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
8/21/2024 22:02	43105	SMIL_T2	16	16	0	0.23	0.31	0.08	0	0	0	0	0	0	0	0
8/21/2024 22:02	12701	MACU_T1	4	4	0	1	0.75	-0.25	0.06	0.05	0	0	0	0	0	0
8/21/2024 22:02	60101	COCA_T1	0	0	0	0	0	0	0.25	0.3	0	0	0	0	0	0
8/21/2024 22:02	61703	ELIZ_T1	0	0	0	0	0	0	-2.41	-2.47	2	2	0	2100	2100	0
8/21/2024 22:02	42802	SELI_T1	2	1	-1	2.55	0.3	-2.25	-1.19	-1.37	1	1	0	900	900	0
8/21/2024 22:02	63303	GREE_T1	0	0	0	0	0	0	0.54	0.53	1	1	0	600	600	0
8/21/2024 22:02	20603	GRWO_T2	0	0	0	0	0	0	-0.65	-0.67	1	1	0	900	900	0
8/21/2024 22:02	60801	BUCK_T1	30	51	21	0.23	0.35	0.12	-0.19	-0.22	0	0	0	0	0	0
8/21/2024 22:02	45501	DERR_T2	1	1	0	0.3	0.4	0.1	-0.06	-0.01	2	2	0	1800	1800	0
8/21/2024 22:02	49803	UNIV_T1	1	1	0	4.9	4.4	-0.5	-2.21	-2.36	0	0	0	0	0	0
8/21/2024 22:02	63304	GREE_T1	0	93	93	0	0.11	0.11	0	0	0	0	0	0	0	0
8/21/2024 22:02	57403	SPAN_T1	37	5	-32	0.32	0.12	-0.2	0	0	0	0	0	0	0	0
8/21/2024 22:02	63602	LETO_T1	38	69	31	0.11	0.15	0.04	-0.36	-0.29	0	0	0	0	0	0
8/21/2024 22:02	41901	REED_T1	9	4	-5	0.52	0.2	-0.32	0	0	0	0	0	0	0	0
8/21/2024 22:02	40505	CRES_T1	3	3	0	5.77	6.07	0.3	0	0	0	0	0	0	0	0
8/21/2024 22:02	12605	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:02	60701	BREC_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
8/21/2024 22:02	43102	SMIL_T2	10	9	-1	0.86	0.81	-0.05	-0.85	-0.86	1	1	0	600	600	0
8/21/2024 22:02	57401	SPAN_T1	2	2	0	1.1	0.7	-0.4	-0.19	-0.41	1	1	0	600	600	0
8/21/2024 22:02	61701	ELIZ_T1	1	1	0	3.8	3.5	-0.3	0	0	0	0	0	0	0	0
8/21/2024 22:02	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 22:02	43108	SMIL_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
8/21/2024 22:02	42903	MIDD_T2	2	2	0	0.3	0.5	0.2	-0.58	-1.26	1	1	0	1200	1200	0
8/21/2024 22:02	49804	UNIV_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/21/2024 22:02	43103	SMIL_T2	22	22	0	0.57	0.71	0.14	0	0	0	0	0	0	0	0
8/21/2024 22:02	60803	BUCK_T1	11	19	8	0.24	0.39	0.15	0	0	0	0	0	0	0	0
8/21/2024 22:02	40504	CRES_T1	0	0	0	0	0	0	-0.48	-0.52	0	0	0	0	0	0
8/21/2024 22:03	43108	SMIL_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
8/21/2024 22:03	46504	LOHA_T1	2	32	30	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
8/21/2024 22:03	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
8/21/2024 22:03	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:03	50107	HARR_T3	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
8/21/2024 22:03	60501	NMAN_T2	14	0	-14	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/21/2024 22:03	47502	NECO_T1	1	5	4	0.8	0.32	-0.48	0.96	0.89	0	0	0	0	0	0
8/21/2024 22:03	43103	SMIL_T2	22	22	0	0.57	0.71	0.14	0	0	0	0	0	0	0	0
8/21/2024 22:03	43105	SMIL_T2	16	16	0	0.23	0.31	0.08	0	0	0	0	0	0	0	0
8/21/2024 22:03	63302	GREE_T1	0	0	0	0	0	0	0.44	0.36	0	0	0	0	0	0
8/21/2024 22:03	51702	OBER_T1	2	2	0	2.9	2.8	-0.1	0	0	0	0	0	0	0	0
8/21/2024 22:03	50201	HARR_T3	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
8/21/2024 22:03	20403	ASHF_T2	0	0	0	0	0	0	0.13	0.07	0	0	0	0	0	0
8/21/2024 22:03	63304	GREE_T1	0	93	93	0	0.11	0.11	0	0	0	0	0	0	0	0
8/21/2024 22:03	20401	ASHF_T2	6	2	-4	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
8/21/2024 22:03	55002	NEWP_T1	6	5	-1	0.67	0.4	-0.27	0	0	0	0	0	0	0	0
8/21/2024 22:03	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
8/21/2024 22:03	40902	JESH_T1	0	0	0	0	0	0	-0.77	-0.82	0	0	0	0	0	0
8/21/2024 22:03	58402	MORO_T1	0	0	0	0	0	0	-0.22	-0.26	2	2	0	1500	1500	0
8/21/2024 22:03	11301	EMMA_T1	0	0	0	0	0	0	-0.81	-0.84	0	0	0	0	0	0
8/21/2024 22:03	42903	MIDD_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/21/2024 22:03	67201	TEHI_T1	0	0	0	0	0	0	0.46	0.41	0	0	0	0	0	0
8/21/2024 22:03	45402	WBLO_T2	7	23	16	0.26	0.34	0.08	-0.77	-0.77	0	0	0	0	0	0
8/21/2024 22:03	55001	NEWP_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
8/21/2024 22:03	50105	HARR_T3	6	6	0	5.57	5.67	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/21/2024 22:03	51804	EBEN_T2	3	2	-1	0.43	0.15	-0.28	0	0	0	0	0	0	0	0
8/21/2024 22:03	51802	EBEN_T2	0	0	0	0	0	0	-0.04	-0.28	1	1	0	900	900	0
8/21/2024 22:03	50103	HARR_T3	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
8/21/2024 22:03	51704	OBER_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
8/21/2024 22:03	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:03	42802	SELI_T1	2	1	-1	2.55	0.3	-2.25	-1.19	-1.37	1	1	0	900	900	0
8/21/2024 22:03	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:03	41901	REED_T1	9	4	-5	0.52	0.2	-0.32	0	0	0	0	0	0	0	0
8/21/2024 22:03	43102	SMIL_T2	10	9	-1	0.86	0.81	-0.05	-0.85	-0.86	1	1	0	600	600	0
8/21/2024 22:03	41902	REED_T1	0	0	0	0	0	0	1.02	1.02	0	0	0	0	0	0
8/21/2024 22:03	54206	PENN_T2	0	0	0	0	0	0	-0.29	0	0	0	0	0	0	0
8/21/2024 22:04	40101	HUNT_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
8/21/2024 22:04	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/21/2024 22:04	57403	SPAN_T1	37	5	-32	0.32	0.12	-0.2	0.07	0.05	0	0	0	0	0	0
8/21/2024 22:04	67602	WARW_T2	0	0	0	0	0	0	0.2	0.54	1	0	-1	300	0	-300
8/21/2024 22:04	40802	EXCH_T2	0	0	0	0	0	0	-0.16	-0.23	0	0	0	0	0	0
8/21/2024 22:04	65503	MOJO_T2	49	0	-49	0.11	0	-0.11	0	0	0	0	0	0	0	0
8/21/2024 22:04	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:04	42802	SELI_T1	2	1	-1	2.55	0.3	-2.25	0	0	0	0	0	0	0	0
8/21/2024 22:04	40501	CRES_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
8/21/2024 22:04	67605	WARW_T1	23	5	-18	0.6	0.3	-0.3	-1.12	-1.14	0	0	0	0	0	0
8/21/2024 22:04	64802	MONE_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
8/21/2024 22:04	42903	MIDD_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/21/2024 22:04	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
8/21/2024 22:04	65501	MOJO_T1	0	0	0	0	0	0	-1.2	-1.19	1	1	0	900	900	0
8/21/2024 22:04	64305	LINC_T1	0	0	0	0	0	0	-1.14	-1.19	0	0	0	0	0	0
8/21/2024 22:04	62606	ENGL_T1	0	0	0	0	0	0	-0.67	-0.59	1	1	0	900	900	0
8/21/2024 22:04	52004	LING_T2	2	2	0	6	6.35	0.35	0	0	0	0	0	0	0	0
8/21/2024 22:04	46401	FLEM_T2	463	890	427	0.33	0.64	0.31	0	0	0	0	0	0	0	0
8/21/2024 22:04	52002	LING_T2	1	1	0	0.3	0.6	0.3	0.09	0.01	0	0	0	0	0	0
8/21/2024 22:04	57401	SPAN_T1	2	2	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
8/21/2024 22:04	42902	MIDD_T2	0	0	0	0	0	0	-2.1	-2.05	2	2	0	1200	1200	0
8/21/2024 22:04	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:04	46402	FLEM_T2	892	1220	328	0.4	0.86	0.46	-0.68	-0.69	0	0	0	0	0	0
8/21/2024 22:04	67502	WEWI_T2	13	19	6	0.17	0.18	0.01	0	0	0	0	0	0	0	0
8/21/2024 22:04	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:04	53601	DALM_T2	1	2	1	0.5	0.1	-0.4	0.38	0.56	0	0	0	0	0	0
8/21/2024 22:04	40502	CRES_T2	34	29	-5	0.26	0.23	-0.03	-0.42	-0.44	0	0	0	0	0	0
8/21/2024 22:04	52006	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 22:04	65502	MOJO_T2	217	0	-217	0.16	0	-0.16	-0.86	-0.93	0	0	0	0	0	0
8/21/2024 22:04	67503	WEWI_T2	1	1	0	8.4	8.9	0.5	0.06	0.05	0	0	0	0	0	0
8/21/2024 22:04	44801	EDAN_T2	148	226	78	0.43	0.51	0.08	0	0	0	0	0	0	0	0
8/21/2024 22:04	44802	EDAN_T2	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
8/21/2024 22:05	44302	BEAV_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
8/21/2024 22:05	61504	EPET_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
8/21/2024 22:05	40501	CRES_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
8/21/2024 22:05	14402	SSLA_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/21/2024 22:05	40502	CRES_T2	34	29	-5	0.26	0.23	-0.03	-0.83	-0.88	0	0	0	0	0	0
8/21/2024 22:05	42802	SELI_T1	2	1	-1	2.55	0.3	-2.25	-1.19	-1.37	1	1	0	900	900	0
8/21/2024 22:05	61501	EPET_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
8/21/2024 22:05	14403	SSLA_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
8/21/2024 22:05	21501	CEAV_T2	0	0	0	0	0	0	-0.04	-0.05	1	1	0	1200	1200	0
8/21/2024 22:05	60101	COCA_T1	0	0	0	0	0	0	0.25	0.3	0	0	0	0	0	0
8/21/2024 22:05	63501	HEID_TBK1-2	54	55	1	1.29	1.65	0.36	0.41	0.44	0	0	0	0	0	0
8/21/2024 22:05	67605	WARW_T1	23	5	-18	0.6	0.3	-0.3	-1.12	-1.14	0	0	0	0	0	0
8/21/2024 22:05	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:05	14404	SSLA_T1	1	3	2	5.6	3.43	-2.17	0	0	0	0	0	0	0	0
8/21/2024 22:05	21502	CEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/21/2024 22:06	40101	HUNT_T2	0	0	0	0	0	0	-0.45	-0.51	0	0	0	0	0	0
8/21/2024 22:06	14404	SSLA_T1	1	3	2	5.6	3.43	-2.17	0	0	0	0	0	0	0	0
8/21/2024 22:06	53901	HALI_T2	3	1	-2	0.67	0.9	0.23	0	0	0	0	0	0	0	0
8/21/2024 22:06	14402	SSLA_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/21/2024 22:06	53902	HALI_T2	1	1	0	5.3	5.3	0	-0.18	-0.2	0	0	0	0	0	0
8/21/2024 22:06	51704	OBER_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
8/21/2024 22:06	42201	SHEN_T2	0	0	0	0	0	0	0.1	0.09	1	1	0	600	600	0
8/21/2024 22:06	10701	CATA_T2	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
8/21/2024 22:06	53903	HALI_T2	2	2	0	1.5	1.1	-0.4	-0.14	-0.14	0	0	0	0	0	0
8/21/2024 22:06	44802	EDAN_T2	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
8/21/2024 22:06	44801	EDAN_T2	148	226	78	0.43	0.51	0.08	0	0	0	0	0	0	0	0
8/21/2024 22:06	14403	SSLA_T1	0	0	0	0	0	0	-0.07	-0.12	0	0	0	0	0	0
8/21/2024 22:06	51702	OBER_T1	2	2	0	2.9	2.8	-0.1	0	0	0	0	0	0	0	0
8/21/2024 22:07	43102	SMIL_T2	10	9	-1	0.86	0.81	-0.05	0	0	0	0	0	0	0	0
8/21/2024 22:07	43105	SMIL_T2	16	16	0	0.23	0.31	0.08	0	0	0	0	0	0	0	0
8/21/2024 22:07	40801	EXCH_T2	0	0	0	0	0	0	0.81	0.79	0	0	0	0	0	0
8/21/2024 22:07	43101	SMIL_T2	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
8/21/2024 22:07	43103	SMIL_T2	22	22	0	0.57	0.71	0.14	0	0	0	0	0	0	0	0
8/21/2024 22:07	43108	SMIL_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
8/21/2024 22:07	40101	HUNT_T2	0	0	0	0	0	0	-0.45	-0.51	0	0	0	0	0	0
8/21/2024 22:08	52404	GRPA_T2	3	1	-2	0.33	0.7	0.37	0	0	0	0	0	0	0	0
8/21/2024 22:08	67805	WLAN_T1	378	420	42	0.21	0.22	0.01	0	0	0	0	0	0	0	0
8/21/2024 22:08	46402	FLEM_T2	892	1220	328	0.4	0.86	0.46	-0.69	-0.69	0	0	0	0	0	0
8/21/2024 22:08	52402	GRPA_T2	4	4	0	1.08	0.73	-0.35	0	0	0	0	0	0	0	0
8/21/2024 22:08	42903	MIDD_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/21/2024 22:08	24801	VALM_T1	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
8/21/2024 22:08	46401	FLEM_T2	463	890	427	0.33	0.64	0.31	0	0	0	0	0	0	0	0
8/21/2024 22:08	52403	GRPA_T2	2	2	0	0.7	0.6	-0.1	0	-0.02	0	0	0	0	0	0
8/21/2024 22:08	42902	MIDD_T2	0	0	0	0	0	0	-1.03	-1.08	1	1	0	600	600	0
8/21/2024 22:08	52401	GRPA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/21/2024 22:08	67804	WLAN_T1	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
8/21/2024 22:08	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:09	41901	REED_T1	9	4	-5	0.52	0.2	-0.32	0	0	0	0	0	0	0	0
8/21/2024 22:09	41001	LAUR_T2	2	76	74	0.1	0.37	0.27	0	0	0	0	0	0	0	0
8/21/2024 22:09	41902	REED_T1	0	0	0	0	0	0	1.02	1	0	0	0	0	0	0
8/21/2024 22:09	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
8/21/2024 22:09	41002	LAUR_T2	3	50	47	0.87	0.37	-0.5	-0.94	-0.98	0	0	0	0	0	0
8/21/2024 22:09	46504	LOHA_T1	2	32	30	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
8/21/2024 22:11	56501	ROCK_T2	2	3	1	0.75	0.47	-0.28	0.14	0.1	0	0	0	0	0	0
8/21/2024 22:11	44302	BEAV_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
8/21/2024 22:12	54201	PENN_T1	15	60	45	0.75	0.38	-0.37	-0.94	-0.94	0	0	0	0	0	0
8/21/2024 22:12	54203	PENN_T1	18	18	0	1.07	1.39	0.32	0	0	0	0	0	0	0	0
8/21/2024 22:15	42001	MNVL_T2	269	278	9	1.04	1.11	0.07	-0.3	-0.33	0	0	0	0	0	0
8/21/2024 22:15	42002	MNVL_T2	1	2	1	1.5	0.6	-0.9	0	0	0	0	0	0	0	0
8/21/2024 22:19	43108	SMIL_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
8/21/2024 22:19	43105	SMIL_T2	16	16	0	0.28	0.29	0.01	0	0	0	0	0	0	0	0
8/21/2024 22:19	43103	SMIL_T2	21	22	1	0.65	0.71	0.06	0	0	0	0	0	0	0	0
8/21/2024 22:19	43102	SMIL_T2	9	7	-2	0.81	0.8	-0.01	-0.86	-0.29	1	0	-1	600	0	-600
8/21/2024 22:21	63304	GREE_T1	12	93	81	0.13	0.11	-0.02	-1.76	-1.48	0	0	0	0	0	0
8/21/2024 22:26	24105	EHAZ_T1	4	4	0	6	5.58	-0.42	0	0	0	0	0	0	0	0
8/21/2024 22:26	24102	EHAZ_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
8/21/2024 22:33	64503	LAVI_T1	0	0	0	0	0	0	-0.42	-0.51	1	1	0	1200	1200	0
8/21/2024 22:42	12302	LANA_T2	0	0	0	0	0	0	-1.64	-1.64	2	2	0	1500	1500	0
8/21/2024 22:49	60101	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:50	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/21/2024 22:55	64501	LAVI_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
8/21/2024 23:17	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 7:07	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 7:10	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 7:13	61503	EPET_T1	0	0	0	0	0	0	-1.05	-1.08	0	0	0	0	0	0
8/22/2024 7:14	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/22/2024 7:14	29402	BELT_T1	1	1	0	8.7	8.5	-0.2	0	0	0	0	0	0	0	0
8/22/2024 7:21	44201	POIN_T1	0	0	0	0	0	0	-1.3	-1.27	2	2	0	2100	2100	0
8/22/2024 7:22	42601	TUSC_T1	0	0	0	0	0	0	-1.12	-0.96	2	2	0	1800	1800	0
8/22/2024 7:23	67502	WEWI_T2	0	0	0	0	0	0	-1.37	-0.31	1	1	0	900	900	0
8/22/2024 7:23	67503	WEWI_T2	1	1	0	9.3	9.1	-0.2	0	0	0	0	0	0	0	0
8/22/2024 7:24	54201	PENN_T1	6	6	0	0.88	0.78	-0.1	0	0	0	0	0	0	0	0
8/22/2024 7:24	54203	PENN_T1	18	18	0	0.5	0.44	-0.06	0.69	0.7	0	0	0	0	0	0
8/22/2024 7:26	11903	ETEX_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
8/22/2024 7:30	46206	DANV_T2	3	3	0	0.8	0.27	-0.53	0	0	0	0	0	0	0	0
8/22/2024 7:30	46203	DANV_T2	1	1	0	6.1	6.4	0.3	-0.8	-0.81	0	0	0	0	0	0
8/22/2024 7:37	24204	PROV_T3	1	1	0	7	6.6	-0.4	0	0	0	0	0	0	0	0
8/22/2024 7:37	24201	PROV_T3	1	1	0	7	6.8	-0.2	-0.21	-0.18	0	0	0	0	0	0
8/22/2024 7:39	14404	SSLA_T1	4	3	-1	2.05	2.07	0.02	0	0	0	0	0	0	0	0
8/22/2024 7:46	12006	HATF_T1	0	0	0	0	0	0	0.38	0.75	1	1	0	1200	1200	0
8/22/2024 7:47	53601	DALM_T2	1	1	0	0.3	0.6	0.3	0.24	0.32	1	1	0	900	900	0
8/22/2024 7:49	12605	MACA_T1	0	0	0	0	0	0	-0.43	-0.4	0	0	0	0	0	0
8/22/2024 7:50	64904	MILL_T2	0	0	0	0	0	0	0.54	0.44	0	0	0	0	0	0
8/22/2024 7:52	43802	SWIL_T1	0	0	0	0	0	0	-0.19	-0.18	1	1	0	600	600	0
8/22/2024 7:52	12605	MACA_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
8/22/2024 7:52	43801	SWIL_T1	4	3	-1	1.33	1.7	0.37	0	0	0	0	0	0	0	0
8/22/2024 7:54	67503	WEWI_T2	1	1	0	9	8.9	-0.1	-0.25	-0.23	0	0	0	0	0	0
8/22/2024 7:54	45602	WOOL_T1	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
8/22/2024 7:55	45602	WOOL_T1	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
8/22/2024 7:57	44801	EDAN_T2	36	172	136	0.21	0.49	0.28	-1.64	-1.65	0	0	0	0	0	0
8/22/2024 7:58	45502	DERR_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/22/2024 7:58	45501	DERR_T2	0	0	0	0	0	0	0.75	0.77	2	2	0	1800	1800	0
8/22/2024 7:59	46401	FLEM_T2	243	15	-228	0.21	0.19	-0.02	-0.47	-0.48	0	0	0	0	0	0
8/22/2024 7:59	46402	FLEM_T2	402	27	-375	0.22	0.26	0.04	0	0	0	0	0	0	0	0
8/22/2024 8:00	23401	HONE_T2	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
8/22/2024 8:00	61802	EELI_T2	0	1	1	0	0	0	-0.44	-0.4	0	0	0	0	0	0
8/22/2024 8:02	40101	HUNT_T2	0	2	2	0	0.6	0.6	-0.21	-0.16	0	0	0	0	0	0
8/22/2024 8:02	62607	ENGL_T1	0	0	0	0	0	0	-1.13	-1.08	1	1	0	300	300	0
8/22/2024 8:03	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/22/2024 8:03	64903	MILL_T2	0	0	0	0	0	0	0.17	0.23	0	0	0	0	0	0
8/22/2024 8:05	52002	LING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/22/2024 8:05	52006	LING_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
8/22/2024 8:05	55002	NEWP_T1	5	7	2	0.7	0.86	0.16	-0.24	-0.24	0	0	0	0	0	0
8/22/2024 8:05	52004	LING_T2	3	3	0	4.07	4.37	0.3	0.31	0.33	0	0	0	0	0	0
8/22/2024 8:06	46102	MACI_T1	0	1	1	0	0	0	0.75	0.84	0	0	0	0	0	0
8/22/2024 8:08	57001	WHHI_T2	0	0	0	0	0	0	-0.21	-0.11	1	1	0	900	900	0
8/22/2024 8:08	14201	EALL_T1	0	0	0	0	0	0	0.61	0.49	0	0	0	0	0	0
8/22/2024 8:09	59202	THOM_T1	1	1	0	6.7	0.2	-6.5	0	0	0	0	0	0	0	0
8/22/2024 8:10	59202	THOM_T1	1	1	0	6.7	0.2	-6.5	0	0	0	0	0	0	0	0
8/22/2024 8:10	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/22/2024 8:10	43402	BENT_T1	0	5	5	0	0.2	0.2	0.07	0.07	0	0	0	0	0	0
8/22/2024 8:14	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 8:14	43402	BENT_T1	0	5	5	0	0.2	0.2	0.07	0.07	0	0	0	0	0	0
8/22/2024 8:16	63501	HEID_TBK1-2	55	55	0	1.65	1.54	-0.11	0.02	0.3	2	2	0	1800	1800	0
8/22/2024 8:16	44801	EDAN_T2	172	140	-32	0.49	0.47	-0.02	-1.65	-1.67	0	0	0	0	0	0
8/22/2024 8:19	54506	ENOL_T2	0	0	0	0	0	0	-0.49	-0.41	1	1	0	600	600	0
8/22/2024 8:19	54505	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/22/2024 8:19	54502	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 8:21	60502	NMAN_T2	0	0	0	0	0	0	-0.22	-0.18	0	0	0	0	0	0
8/22/2024 8:21	64101	REFR_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
8/22/2024 8:24	64101	REFR_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
8/22/2024 8:25	64101	REFR_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
8/22/2024 8:26	44301	BEAV_T2	1	1	0	0.2	0	-0.2	0.63	0.35	2	2	0	1500	1500	0
8/22/2024 8:26	45902	AUBU_T1	0	0	0	0	0	0	-0.38	-0.38	1	1	0	600	600	0
8/22/2024 8:27	51306	WIND_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
8/22/2024 8:27	44301	BEAV_T2	1	1	0	0.2	0	-0.2	1.27	0.7	4	4	0	3000	3000	0
8/22/2024 8:29	11102	EGYP_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
8/22/2024 8:30	45501	DERR_T2	0	1	1	0	0.2	0.2	0.84	0.84	2	2	0	1800	1800	0
8/22/2024 8:30	45502	DERR_T2	2	1	-1	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/22/2024 8:30	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 8:31	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 8:35	65004	NEFF_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
8/22/2024 8:35	51702	OBER_T1	2	2	0	3.45	3.55	0.1	-1.04	-1.06	1	1	0	600	600	0
8/22/2024 8:36	15603	NSTR_T2	0	0	0	0	0	0	-0.29	-0.33	0	0	0	0	0	0
8/22/2024 8:36	15601	NSTR_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
8/22/2024 8:37	51702	OBER_T1	2	2	0	3.45	3.55	0.1	-1.06	0.26	1	1	0	600	600	0
8/22/2024 8:37	65603	QVIL_T2	0	0	0	0	0	0	0.55	0.5	0	0	0	0	0	0
8/22/2024 8:38	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
8/22/2024 8:38	15703	TANN_T2	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
8/22/2024 8:38	63401	HONY_T1	0	0	0	0	0	0	0.01	-0.11	1	1	0	600	600	0
8/22/2024 8:39	63401	HONY_T1	0	0	0	0	0	0	0.01	-0.11	1	1	0	600	600	0
8/22/2024 8:43	67603	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 8:43	67605	WARW_T1	11	11	0	0.34	0.3	-0.04	0	0	0	0	0	0	0	0
8/22/2024 8:43	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/22/2024 8:46	46803	HEPB_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
8/22/2024 8:46	46801	HEPB_T2	2	2	0	0.95	0.7	-0.25	0	0	0	0	0	0	0	0
8/22/2024 8:46	11507	FREE_T2	0	2	2	0	0	0	1.06	1.18	0	0	0	0	0	0
8/22/2024 8:47	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 8:47	45502	DERR_T2	1	0	-1	0.6	0	-0.6	0.27	0.28	1	1	0	300	300	0
8/22/2024 8:49	64203	KINZ_T1	0	0	0	0	0	0	1	1.08	2	2	0	900	900	0
8/22/2024 8:49	64202	KINZ_T1	3	3	0	0.2	0.47	0.27	0	0	0	0	0	0	0	0
8/22/2024 8:49	42903	MIDD_T2	2	3	1	0.25	0.9	0.65	0	0	0	0	0	0	0	0
8/22/2024 8:49	42902	MIDD_T2	4	6	2	0.23	0.25	0.02	-0.33	-0.32	1	1	0	600	600	0
8/22/2024 8:49	64204	KINZ_T1	3	2	-1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/22/2024 8:50	17002	RIRO_T2	3	3	0	0.37	0.63	0.26	0.64	0.64	0	0	0	0	0	0
8/22/2024 8:50	42903	MIDD_T2	2	3	1	0.25	0.9	0.65	0	0	0	0	0	0	0	0
8/22/2024 8:50	42902	MIDD_T2	4	6	2	0.23	0.25	0.02	-0.33	-0.32	1	1	0	600	600	0
8/22/2024 8:54	45902	AUBU_T1	0	0	0	0	0	0	-0.39	-0.45	1	1	0	600	600	0
8/22/2024 8:56	51204	MTON_T2	0	0	0	0	0	0	-0.35	-0.36	1	1	0	600	600	0
8/22/2024 8:57	20403	ASHF_T2	0	5	5	0	0.3	0.3	1.54	1.5	0	0	0	0	0	0
8/22/2024 8:57	20401	ASHF_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
8/22/2024 8:58	53501	EVIL_T2	2	2	0	1.1	1.1	0	-0.01	-0.01	2	2	0	1200	1200	0
8/22/2024 8:58	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 8:59	44301	BEAV_T2	0	0	0	0	0	0	1.06	0.33	4	4	0	3000	3000	0
8/22/2024 9:01	53501	EVIL_T2	2	2	0	0.85	1.1	0.25	-0.01	-0.01	1	1	0	600	600	0
8/22/2024 9:01	29401	BELT_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/22/2024 9:01	29402	BELT_T1	1	1	0	8.5	8.5	0	0	0	0	0	0	0	0	0
8/22/2024 9:02	53501	EVIL_T2	2	2	0	0.85	1.1	0.25	-0.01	-0.01	1	1	0	600	600	0
8/22/2024 9:03	53501	EVIL_T2	2	2	0	0.85	1.1	0.25	-0.01	-0.01	1	1	0	600	600	0
8/22/2024 9:04	40101	HUNT_T2	0	1	1	0	0.2	0.2	-0.16	-0.15	0	0	0	0	0	0
8/22/2024 9:05	40601	PIGR_T1	13	13	0	0.18	0.26	0.08	0	0	0	0	0	0	0	0
8/22/2024 9:05	40602	PIGR_T1	1	1	0	1.8	1.6	-0.2	-0.02	-0.04	1	1	0	600	600	0
8/22/2024 9:06	13704	SCHN_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
8/22/2024 9:07	42201	SHEN_T2	0	0	0	0	0	0	0.72	0.71	0	0	0	0	0	0
8/22/2024 9:08	66701	STRA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 9:08	66504	SMAN_T2	0	0	0	0	0	0	-0.47	-0.45	0	0	0	0	0	0
8/22/2024 9:08	66703	STRA_T1	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0
8/22/2024 9:09	56501	ROCK_T2	4	3	-1	0.48	0.4	-0.08	0.07	0.1	0	0	0	0	0	0
8/22/2024 9:09	67203	TEHI_T1	0	0	0	0	0	0	2.26	2.84	3	3	0	2100	2100	0
8/22/2024 9:09	20403	ASHF_T2	0	5	5	0	0.34	0.34	3	3.05	0	0	0	0	0	0
8/22/2024 9:09	20401	ASHF_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
8/22/2024 9:10	66504	SMAN_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
8/22/2024 9:10	67605	WARW_T1	7	12	5	0.31	0.38	0.07	-1.09	-1.03	0	0	0	0	0	0
8/22/2024 9:10	20401	ASHF_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
8/22/2024 9:10	20403	ASHF_T2	0	5	5	0	0.34	0.34	1.5	1.53	0	0	0	0	0	0
8/22/2024 9:10	60101	COCA_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
8/22/2024 9:11	13704	SCHN_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
8/22/2024 9:13	67605	WARW_T1	7	12	5	0.31	0.38	0.07	-1.09	-1.03	0	0	0	0	0	0
8/22/2024 9:14	60101	COCA_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
8/22/2024 9:15	62601	ENGL_T1	0	0	0	0	0	0	-0.02	0.01	0	0	0	0	0	0
8/22/2024 9:15	62607	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 9:15	60101	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 9:16	40101	HUNT_T2	1	1	0	0.2	0	-0.2	-0.15	-0.08	0	0	0	0	0	0
8/22/2024 9:17	52002	LING_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/22/2024 9:17	52006	LING_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
8/22/2024 9:17	52004	LING_T2	3	4	1	4.37	3.43	-0.94	0.36	0.36	0	0	0	0	0	0
8/22/2024 9:20	47001	HUGH_T2	3	3	0	8.73	8.83	0.1	-0.29	-0.23	0	0	0	0	0	0
8/22/2024 9:20	60502	NMAN_T2	0	0	0	0	0	0	-0.18	-0.05	0	0	0	0	0	0
8/22/2024 9:21	44801	EDAN_T2	73	67	-6	0.51	0.55	0.04	-1.58	-1.6	0	0	0	0	0	0
8/22/2024 9:21	12206	FOGE_T2	0	0	0	0	0	0	-0.45	-0.51	2	2	0	2100	2100	0
8/22/2024 9:21	46302	ROHR_T1	9	6	-3	1.34	1.77	0.43	0.15	0.16	0	0	0	0	0	0
8/22/2024 9:21	46301	ROHR_T1	99	65	-34	0.29	0.34	0.05	0	0	0	0	0	0	0	0
8/22/2024 9:23	46301	ROHR_T1	99	65	-34	0.29	0.34	0.05	0.24	0.25	0	0	0	0	0	0
8/22/2024 9:23	46302	ROHR_T1	9	6	-3	1.34	1.77	0.43	0	0	0	0	0	0	0	0
8/22/2024 9:24	43105	SMIL_T2	7	6	-1	0.24	0.32	0.08	0	0	0	0	0	0	0	0
8/22/2024 9:24	46302	ROHR_T1	9	6	-3	1.34	1.77	0.43	0.15	0.16	0	0	0	0	0	0
8/22/2024 9:24	14801	TREI_T2	30	19	-11	0.26	0.36	0.1	-0.46	-0.42	0	0	0	0	0	0
8/22/2024 9:24	43101	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 9:24	43104	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 9:24	43106	SMIL_T2	0	0	0	0	0	0	-0.96	-0.78	2	2	0	2400	2400	0
8/22/2024 9:24	43102	SMIL_T2	8	9	1	0.71	0.65	-0.06	0	0	0	0	0	0	0	0
8/22/2024 9:24	46301	ROHR_T1	99	65	-34	0.29	0.34	0.05	0	0	0	0	0	0	0	0
8/22/2024 9:24	43103	SMIL_T2	21	22	1	0.81	0.82	0.01	0	0	0	0	0	0	0	0
8/22/2024 9:26	15001	BLMO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 9:27	15001	BLMO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 9:29	29402	BELT_T1	1	1	0	8.5	8.5	0	0	0	0	0	0	0	0	0
8/22/2024 9:29	29401	BELT_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/22/2024 9:29	61701	ELIZ_T1	1	2	1	4.1	2.15	-1.95	1.59	1.62	0	0	0	0	0	0
8/22/2024 9:31	53502	EVIL_T2	0	2	2	0	0	0	-0.16	-0.01	2	2	0	1200	1200	0
8/22/2024 9:31	29401	BELT_T1	1	1	0	0.2	0.4	0.2	0	0	1	1	0	900	900	0
8/22/2024 9:31	53501	EVIL_T2	2	3	1	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
8/22/2024 9:31	29402	BELT_T1	1	2	1	8.5	4.35	-4.15	0	0	0	0	0	0	0	0
8/22/2024 9:32	11205	ELHE_T1	0	0	0	0	0	0	-0.6	-0.58	1	1	0	1200	1200	0
8/22/2024 9:33	20601	GRWO_T2	0	0	0	0	0	0	1.2	1.22	0	0	0	0	0	0
8/22/2024 9:36	64802	MONE_T2	1	2	1	0.5	0.45	-0.05	0.31	0.33	0	0	0	0	0	0
8/22/2024 9:36	64801	MONE_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/22/2024 9:37	16402	MOPO_T1	0	0	0	0	0	0	0.35	0.2	0	0	0	0	0	0
8/22/2024 9:37	67106	SPRI_T2	0	0	0	0	0	0	-1.78	-1.78	2	2	0	1500	1500	0
8/22/2024 9:37	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 9:38	67106	SPRI_T2	0	0	0	0	0	0	-1.78	-1.78	2	2	0	1500	1500	0
8/22/2024 9:40	60502	NMAN_T2	0	0	0	0	0	0	-0.13	-0.06	0	0	0	0	0	0
8/22/2024 9:40	43103	SMIL_T2	22	21	-1	0.8	0.77	-0.03	-0.84	-0.82	0	0	0	0	0	0
8/22/2024 9:40	43104	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 9:40	43105	SMIL_T2	6	4	-2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/22/2024 9:40	43102	SMIL_T2	9	8	-1	0.65	0.66	0.01	0	0	0	0	0	0	0	0
8/22/2024 9:40	43101	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 9:41	29401	BELT_T1	1	1	0	0.2	0.4	0.2	0	0	1	1	0	900	900	0
8/22/2024 9:41	29402	BELT_T1	1	2	1	8.5	4.35	-4.15	0	0	0	0	0	0	0	0
8/22/2024 9:42	43105	SMIL_T2	6	4	-2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/22/2024 9:42	40201	BEGA_T2	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
8/22/2024 9:42	43102	SMIL_T2	9	8	-1	0.65	0.66	0.01	0	0	0	0	0	0	0	0
8/22/2024 9:42	43101	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 9:42	43104	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 9:42	43103	SMIL_T2	22	21	-1	0.8	0.77	-0.03	-0.84	-0.82	0	0	0	0	0	0
8/22/2024 9:42	64602	LEOL_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
8/22/2024 9:43	45902	AUBU_T1	0	1	1	0	0.9	0.9	-0.4	-0.42	1	1	0	600	600	0
8/22/2024 9:45	40201	BEGA_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/22/2024 9:46	20601	GRWO_T2	0	1	1	0	0	0	1.22	1.26	0	0	0	0	0	0
8/22/2024 9:47	45802	HEGI_T2	48	48	0	1.93	1.97	0.04	0.42	0.43	2	2	0	1800	1800	0
8/22/2024 9:51	66505	SMAN_T2	0	0	0	0	0	0	0.74	0.67	1	2	1	900	1100	200
8/22/2024 9:52	57403	SPAN_T1	2	9	7	0.25	0.21	-0.04	0	0	0	0	0	0	0	0
8/22/2024 9:52	57401	SPAN_T1	2	2	0	0.6	0.8	0.2	-0.28	-0.29	1	1	0	600	600	0
8/22/2024 9:53	59101	WALK_T2	1	1	0	0.4	0.1	-0.3	2.27	2.29	0	0	0	0	0	0
8/22/2024 9:53	59102	WALK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 9:54	67503	WEWI_T2	1	1	0	8.4	8.5	0.1	-0.1	-0.07	0	0	0	0	0	0
8/22/2024 9:54	67502	WEWI_T2	1	2	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/22/2024 9:55	57403	SPAN_T1	2	9	7	0.25	0.21	-0.04	0	0	0	0	0	0	0	0
8/22/2024 9:55	57401	SPAN_T1	2	2	0	0.6	0.8	0.2	-1.12	-1.17	4	4	0	2400	2400	0
8/22/2024 9:55	59102	WALK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 9:55	59101	WALK_T2	1	1	0	0.4	0.1	-0.3	2.27	2.29	0	0	0	0	0	0
8/22/2024 9:58	59102	WALK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 9:58	59101	WALK_T2	1	1	0	0.4	0.1	-0.3	2.27	2.29	0	0	0	0	0	0
8/22/2024 9:58	45902	AUBU_T1	0	1	1	0	1.2	1.2	-0.42	-0.29	1	1	0	600	600	0
8/22/2024 9:58	45901	AUBU_T1	0	0	0	0	0	0	0.84	0.76	0	0	0	0	0	0
8/22/2024 9:59	16101	BING_T2	0	0	0	0	0	0	0.43	0.46	0	0	0	0	0	0
8/22/2024 9:59	45901	AUBU_T1	0	0	0	0	0	0	0.84	0.76	0	0	0	0	0	0
8/22/2024 9:59	45902	AUBU_T1	0	1	1	0	1.2	1.2	-0.42	-0.29	1	1	0	600	600	0
8/22/2024 9:59	10805	OHHI_T2	1	2	1	8.8	8.9	0.1	-0.64	-0.72	1	1	0	1200	1200	0
8/22/2024 10:00	42902	MIDD_T2	5	11	6	0.3	0.37	0.07	-0.47	-0.41	2	2	0	1200	1200	0
8/22/2024 10:00	67503	WEWI_T2	1	1	0	8.5	8.3	-0.2	-0.1	-0.07	0	0	0	0	0	0
8/22/2024 10:00	56504	ROCK_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/22/2024 10:00	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 10:00	42903	MIDD_T2	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/22/2024 10:00	46102	MACI_T1	0	0	0	0	0	0	0.76	0.77	0	0	0	0	0	0
8/22/2024 10:00	56501	ROCK_T2	3	3	0	0.47	0.73	0.26	0.25	0.29	0	0	0	0	0	0
8/22/2024 10:00	59202	THOM_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/22/2024 10:00	10805	CHHI_T2	2	1	-1	4.65	8	3.35	-0.64	-0.72	1	1	0	1200	1200	0
8/22/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.36	0.31	0	0	0	0	0	0
8/22/2024 10:00	67502	WEWI_T2	1	2	1	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
8/22/2024 10:00	48302	ORWI_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
8/22/2024 10:00	52004	LING_T2	4	5	1	3.18	2.8	-0.38	0.75	0.73	0	0	0	0	0	0
8/22/2024 10:06	64904	MILL_T1	0	9	9	0	0	0	0.56	0.6	0	0	0	0	0	0
8/22/2024 10:07	23002	SAJO_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/22/2024 10:07	23001	SAJO_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
8/22/2024 10:08	46301	ROHR_T1	10	103	93	1.27	0.32	-0.95	0	0	0	0	0	0	0	0
8/22/2024 10:08	64802	MONE_T2	2	1	-1	0.45	0.8	0.35	0.34	0.34	0	0	0	0	0	0
8/22/2024 10:08	64801	MONE_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/22/2024 10:08	46302	ROHR_T1	5	9	4	2	1.26	-0.74	0.17	0.18	0	0	0	0	0	0
8/22/2024 10:08	15204	SFAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 10:08	15203	SFAR_T2	0	0	0	0	0	0	-0.92	-0.82	0	0	0	0	0	0
8/22/2024 10:08	42902	MIDD_T2	5	11	6	0.3	0.37	0.07	0	0	0	0	0	0	0	0
8/22/2024 10:08	42903	MIDD_T2	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
8/22/2024 10:09	67502	WEWI_T2	1	2	1	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
8/22/2024 10:09	24204	PROV_T3	1	1	0	6.8	7.1	0.3	0	0	0	0	0	0	0	0
8/22/2024 10:09	13704	SCHN_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
8/22/2024 10:09	67503	WEWI_T2	1	1	0	8.5	8.3	-0.2	-0.07	-0.09	0	0	0	0	0	0
8/22/2024 10:09	24201	PROV_T3	1	1	0	7.4	7.8	0.4	0	0	0	0	0	0	0	0
8/22/2024 10:09	59202	THOM_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/22/2024 10:09	59101	WALK_T2	1	1	0	0.1	0.6	0.5	4.58	4.46	0	0	0	0	0	0
8/22/2024 10:10	56501	ROCK_T2	3	3	0	0.47	0.73	0.26	0.19	0.29	0	0	0	0	0	0
8/22/2024 10:10	67503	WEWI_T2	1	1	0	8.5	8.3	-0.2	-0.07	-0.09	0	0	0	0	0	0
8/22/2024 10:10	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 10:10	13704	SCHN_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
8/22/2024 10:10	46302	ROHR_T1	5	9	4	2	1.26	-0.74	0	0	0	0	0	0	0	0
8/22/2024 10:10	46301	ROHR_T1	10	103	93	1.27	0.32	-0.95	0.26	0.24	0	0	0	0	0	0
8/22/2024 10:10	11507	FREE_T2	0	1	1	0	0.1	0.1	1.19	1.15	0	0	0	0	0	0
8/22/2024 10:10	67502	WEWI_T2	1	2	1	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
8/22/2024 10:10	15203	SFAR_T2	0	0	0	0	0	0	-0.46	-0.41	0	0	0	0	0	0
8/22/2024 10:10	56504	ROCK_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/22/2024 10:11	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 10:11	46302	ROHR_T1	5	9	4	2	1.26	-0.74	0.17	0.18	0	0	0	0	0	0
8/22/2024 10:11	20401	ASHF_T2	1	3	2	0.1	0.25	0.15	0	0	0	0	0	0	0	0
8/22/2024 10:11	59101	WALK_T2	1	1	0	0.1	0.6	0.5	2.29	2.23	0	0	0	0	0	0
8/22/2024 10:11	54201	PENN_T1	8	6	-2	0.74	0.88	0.14	0	0	0	0	0	0	0	0
8/22/2024 10:11	54203	PENN_T1	18	18	0	0.4	0.46	0.06	0.29	0.3	0	0	0	0	0	0
8/22/2024 10:11	42801	SELI_T1	0	0	0	0	0	0	-1.34	-1.44	1	1	0	1200	1200	0
8/22/2024 10:11	42302	MOWR_T2	0	0	0	0	0	0	0.19	0.23	0	0	0	0	0	0
8/22/2024 10:11	20403	ASHF_T2	4	5	1	0.23	0.34	0.11	1.56	1.62	0	0	0	0	0	0
8/22/2024 10:11	59202	THOM_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/22/2024 10:11	44301	BEAV_T2	1	1	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
8/22/2024 10:11	46301	ROHR_T1	10	103	93	1.27	0.32	-0.95	0	0	0	0	0	0	0	0
8/22/2024 10:11	67505	WEWI_T1	0	0	0	0	0	0	0.05	-0.03	1	1	0	900	900	0
8/22/2024 10:11	60502	NMAN_T2	0	0	0	0	0	0	-0.13	-0.01	0	0	0	0	0	0
8/22/2024 10:11	60903	DONG_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 10:11	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 10:11	42802	SELI_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
8/22/2024 10:11	67501	WEWI_T1	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0	0
8/22/2024 10:11	60901	DONG_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/22/2024 10:11	16102	BING_T2	0	0	0	0	0	0	1.25	1.33	0	0	0	0	0	0
8/22/2024 10:12	14801	TREI_T2	15	14	-1	0.42	0.43	0.01	-0.32	-0.26	0	0	0	0	0	0
8/22/2024 10:13	29402	BELT_T1	2	2	0	4.35	4.55	0.2	0	0	0	0	0	0	0	0
8/22/2024 10:13	20403	ASHF_T2	4	5	1	0.23	0.34	0.11	1.56	1.62	0	0	0	0	0	0
8/22/2024 10:13	20401	ASHF_T2	1	3	2	0.1	0.25	0.15	0	0	0	0	0	0	0	0
8/22/2024 10:13	53502	EVIL_T2	0	0	0	0	0	0	0.33	0.17	2	2	0	1200	1200	0
8/22/2024 10:13	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 10:13	40201	BEGA_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
8/22/2024 10:13	53501	EVIL_T2	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
8/22/2024 10:13	29401	BELT_T1	1	3	2	0.3	0.17	-0.13	0	0	1	1	0	900	900	0
8/22/2024 10:13	45902	AUBU_T1	1	1	0	0.9	1.3	0.4	-0.29	-0.31	1	1	0	600	600	0
8/22/2024 10:14	29401	BELT_T1	1	3	2	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
8/22/2024 10:14	45901	AUBU_T1	0	0	0	0	0	0	1.51	1.43	0	0	0	0	0	0
8/22/2024 10:14	15204	SFAR_T2	0	1	1	0	0.1	0.1	-0.32	0.14	0	0	0	0	0	0
8/22/2024 10:14	20401	ASHF_T2	1	3	2	0.1	0.25	0.15	0	0	0	0	0	0	0	0
8/22/2024 10:14	29402	BELT_T1	2	2	0	4.35	4.55	0.2	0	0	0	0	0	0	0	0
8/22/2024 10:14	20403	ASHF_T2	4	5	1	0.23	0.34	0.11	1.56	1.62	0	0	0	0	0	0
8/22/2024 10:14	45902	AUBU_T1	1	1	0	0.9	1.3	0.4	-0.29	-0.31	1	1	0	600	600	0
8/22/2024 10:14	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 10:15	45501	DERR_T2	0	0	0	0	0	0	0.92	1.06	2	2	0	1800	1800	0
8/22/2024 10:15	45902	AUBU_T1	1	6	5	1.2	0.38	-0.82	-0.29	-0.31	1	1	0	600	600	0
8/22/2024 10:15	29402	BELT_T1	2	5	3	4.4	2.36	-2.04	0	0	0	0	0	0	0	0
8/22/2024 10:15	53501	EVIL_T2	1	2	1	0.9	0.35	-0.55	-0.01	-0.01	2	2	0	1200	1200	0
8/22/2024 10:15	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 10:15	16101	BING_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
8/22/2024 10:15	29401	BELT_T1	0	29	29	0	0.17	0.17	0	0	1	1	0	900	900	0
8/22/2024 10:16	10801	CHHI_T1	3	3	0	0.43	0.67	0.24	-0.74	-0.63	1	1	0	900	900	0
8/22/2024 10:16	45502	DERR_T2	0	0	0	0	0	0	0.17	0.16	1	1	0	300	300	0
8/22/2024 10:16	52403	GRPA_T2	0	1	1	0	0	0	0.19	0.16	0	0	0	0	0	0
8/22/2024 10:16	40802	EXCH_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/22/2024 10:16	40101	HUNT_T2	2	2	0	0.45	0.45	0	-0.02	-0.05	0	0	0	0	0	0
8/22/2024 10:16	52402	GRPA_T2	1	5	4	0.8	0.52	-0.28	0	0	0	0	0	0	0	0
8/22/2024 10:16	40801	EXCH_T2	1	1	0	0.5	0.7	0.2	-0.45	-0.42	1	1	0	1200	1200	0
8/22/2024 10:16	29402	BELT_T1	2	5	3	4.4	2.36	-2.04	0	0	0	0	0	0	0	0
8/22/2024 10:16	45902	AUBU_T1	1	6	5	1.2	0.38	-0.82	-0.29	-0.31	1	1	0	600	600	0
8/22/2024 10:16	29401	BELT_T1	0	29	29	0	0.17	0.17	0	0	0	0	0	0	0	0
8/22/2024 10:16	63501	HEID_TBK1-2	54	55	1	1.62	1.66	0.04	0.4	0.46	2	2	0	1800	1800	0
8/22/2024 10:17	20601	GRWO_T2	1	1	0	0.3	0	-0.3	1.28	1.27	0	0	0	0	0	0
8/22/2024 10:17	20402	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/22/2024 10:17	40201	BEGA_T2	2	2	0	0.6	0.85	0.25	0	0	0	0	0	0	0	0
8/22/2024 10:17	20401	ASHF_T2	1	3	2	0.3	0.3	0	0	0	0	0	0	0	0	0
8/22/2024 10:17	63501	HEID_TBK1-2	54	55	1	1.62	1.66	0.04	0.2	0.23	1	1	0	900	900	0
8/22/2024 10:17	63403	HONY_T2	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
8/22/2024 10:17	20403	ASHF_T2	3	8	5	0.27	0.35	0.08	1.56	1.62	0	0	0	0	0	0
8/22/2024 10:17	53501	EVIL_T2	1	2	1	0.9	0.35	-0.55	-0.02	-0.02	3	3	0	1800	1800	0
8/22/2024 10:18	40101	HUNT_T2	2	2	0	0.45	0.45	0	-0.02	-0.05	0	0	0	0	0	0
8/22/2024 10:19	12801	MICK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
8/22/2024 10:19	40101	HUNT_T2	2	2	0	0.45	0.45	0	-0.02	-0.05	0	0	0	0	0	0
8/22/2024 10:20	42201	SHEN_T2	0	0	0	0	0	0	0.16	0.14	1	1	0	600	600	0
8/22/2024 10:20	67702	WERN_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/22/2024 10:20	25502	MADI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/22/2024 10:20	25501	MADI_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/22/2024 10:20	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/22/2024 10:20	25503	MADI_T1	0	3	3	0	0.43	0.43	-0.89	-0.87	0	0	0	0	0	0
8/22/2024 10:20	45501	DERR_T2	0	0	0	0	0	0	0.92	1.06	2	2	0	1800	1800	0
8/22/2024 10:20	20601	GRWO_T2	1	1	0	0.3	0	-0.3	1.28	1.27	0	0	0	0	0	0
8/22/2024 10:21	46206	DANV_T2	4	2	-2	0.68	0	-0.68	0	0	0	0	0	0	0	0
8/22/2024 10:21	64305	LINC_T1	0	1	1	0	0.1	0.1	0.08	0.23	0	0	0	0	0	0
8/22/2024 10:21	46203	DANV_T2	1	1	0	6.9	7.6	0.7	-0.71	-0.69	0	0	0	0	0	0
8/22/2024 10:21	57401	SPAN_T1	2	2	0	0.75	1	0.25	0	0	0	0	0	0	0	0
8/22/2024 10:21	65604	QVIL_T2	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
8/22/2024 10:21	25402	LAHA_T2	0	0	0	0	0	0	-0.36	-0.32	0	0	0	0	0	0
8/22/2024 10:21	57403	SPAN_T1	5	15	10	0.2	0.23	0.03	0.05	0.11	0	0	0	0	0	0
8/22/2024 10:22	13704	SCHN_T2	0	0	0	0	0	0	-0.25	-0.12	0	0	0	0	0	0
8/22/2024 10:22	66502	SMAN_T2	0	1	1	0	0.1	0.1	0.31	0.3	0	0	0	0	0	0
8/22/2024 10:23	64204	KINZ_T1	7	37	30	0.41	0.43	0.02	0	0	0	0	0	0	0	0
8/22/2024 10:23	66504	SMAN_T2	0	0	0	0	0	0	-0.16	0.06	0	0	0	0	0	0
8/22/2024 10:23	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 10:23	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 10:23	67203	TEHI_T1	1	1	0	0.1	0.2	0.1	2.92	2.84	3	3	0	2100	2100	0
8/22/2024 10:23	64203	KINZ_T1	0	0	0	0	0	0	0.37	0.19	3	3	0	2100	2100	0
8/22/2024 10:23	64202	KINZ_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
8/22/2024 10:23	60502	NMAN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/22/2024 10:23	66505	SMAN_T2	0	0	0	0	0	0	0.8	0.84	2	2	0	1100	1100	0
8/22/2024 10:24	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.23	-0.25	0	0	0	0	0	0
8/22/2024 10:24	57403	SPAN_T1	5	15	10	0.2	0.23	0.03	0	0	0	0	0	0	0	0
8/22/2024 10:24	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 10:24	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 10:24	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 10:24	15703	TANN_T2	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
8/22/2024 10:24	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 10:24	57401	SPAN_T1	2	2	0	0.75	1	0.25	-0.31	-0.3	1	1	0	600	600	0
8/22/2024 10:25	42201	SHEN_T2	0	0	0	0	0	0	0.14	0.17	1	1	0	600	600	0
8/22/2024 10:26	57403	SPAN_T1	5	15	10	0.2	0.23	0.03	0	0	0	0	0	0	0	0
8/22/2024 10:26	57401	SPAN_T1	2	2	0	0.75	1	0.25	-1.25	-1.18	4	4	0	2400	2400	0
8/22/2024 10:27	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 10:27	66504	SMAN_T2	0	0	0	0	0	0	-0.32	0.12	0	0	0	0	0	0
8/22/2024 10:29	53902	HALI_T2	2	3	1	2.5	2.37	-0.13	0	0	0	0	0	0	0	0
8/22/2024 10:29	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 10:29	11104	EGYP_T1	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
8/22/2024 10:29	16103	BING_T2	0	0	0	0	0	0	-0.78	-0.77	2	2	0	1500	1500	0
8/22/2024 10:29	53901	HALI_T2	1	4	3	1	0.55	-0.45	-1.19	-1.19	0	0	0	0	0	0
8/22/2024 10:29	53903	HALI_T2	2	8	6	1.05	0.74	-0.31	0	0	0	0	0	0	0	0
8/22/2024 10:29	11103	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 10:29	14203	EALL_T1	0	0	0	0	0	0	0.11	0.18	1	1	0	1200	1200	0
8/22/2024 10:30	11601	CEAL_T1	1	1	0	0.7	0.8	0.1	0	0	1	1	0	1200	1200	0
8/22/2024 10:30	61502	EPET_T1	0	0	0	0	0	0	-0.7	-0.63	0	0	0	0	0	0
8/22/2024 10:31	21204	ECAR_T2	1	1	0	0	0	0	-0.66	-0.59	0	0	0	0	0	0
8/22/2024 10:31	21206	ECAR_T2	1	1	0	8	8	0	0	0	0	0	0	0	0	0
8/22/2024 10:31	53601	DALM_T2	1	1	0	1.5	0.9	-0.6	-0.23	-0.33	1	1	0	900	900	0
8/22/2024 10:32	53903	HALI_T2	6	9	3	0.8	0.67	-0.13	-0.06	-0.07	0	0	0	0	0	0
8/22/2024 10:32	53901	HALI_T2	4	3	-1	0.55	0.7	0.15	-2.37	-2.38	0	0	0	0	0	0
8/22/2024 10:32	23401	HONE_T2	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
8/22/2024 10:32	53902	HALI_T2	3	3	0	2.33	2.37	0.04	-0.13	-0.15	0	0	0	0	0	0
8/22/2024 10:33	53901	HALI_T2	4	3	-1	0.55	0.7	0.15	-2.37	-2.38	0	0	0	0	0	0
8/22/2024 10:33	55101	WERT_T1	0	0	0	0	0	0	-1.36	-1.43	3	3	0	2400	2400	0
8/22/2024 10:33	53902	HALI_T2	3	3	0	2.33	2.37	0.04	0	0	0	0	0	0	0	0
8/22/2024 10:33	53903	HALI_T2	6	9	3	0.8	0.67	-0.13	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/22/2024 10:33	11104	EGYP_T1	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
8/22/2024 10:33	11103	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 10:34	53903	HALI_T2	6	9	3	0.8	0.67	-0.13	0	0	0	0	0	0	0	0
8/22/2024 10:34	53901	HALI_T2	4	3	-1	0.55	0.7	0.15	-1.19	-1.19	0	0	0	0	0	0
8/22/2024 10:34	45802	HEGI_T2	48	48	0	2.13	2.05	-0.08	0.51	0.4	2	2	0	1800	1800	0
8/22/2024 10:34	53902	HALI_T2	3	3	0	2.33	2.37	0.04	0	0	0	0	0	0	0	0
8/22/2024 10:35	42903	MIDD_T2	2	2	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
8/22/2024 10:35	42902	MIDD_T2	11	5	-6	0.35	0.44	0.09	-0.49	-0.38	2	2	0	1200	1200	0
8/22/2024 10:36	23001	SAJO_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
8/22/2024 10:36	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 10:36	55002	NEWP_T1	9	9	0	0.51	0.41	-0.1	-0.2	-0.17	0	0	0	0	0	0
8/22/2024 10:36	23002	SAJO_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/22/2024 10:37	42902	MIDD_T2	11	5	-6	0.35	0.44	0.09	-0.19	-0.17	1	1	0	600	600	0
8/22/2024 10:37	42903	MIDD_T2	2	2	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
8/22/2024 10:37	14801	TREI_T2	7	7	0	0.54	0.57	0.03	0	0	0	0	0	0	0	0
8/22/2024 10:37	14802	TREI_T2	0	1	1	0	0.1	0.1	0.68	0.6	0	0	0	0	0	0
8/22/2024 10:37	13905	SEID_T1	0	0	0	0	0	0	0.4	0.53	0	0	0	0	0	0
8/22/2024 10:38	42902	MIDD_T2	11	5	-6	0.35	0.44	0.09	-0.19	-0.17	1	1	0	600	600	0
8/22/2024 10:38	14801	TREI_T2	7	7	0	0.54	0.57	0.03	-0.36	-0.31	0	0	0	0	0	0
8/22/2024 10:38	15702	TANN_T2	1	2	1	0.1	0.15	0.05	-0.25	-0.27	0	0	0	0	0	0
8/22/2024 10:38	55002	NEWP_T1	9	9	0	0.51	0.41	-0.1	-0.17	-0.19	0	0	0	0	0	0
8/22/2024 10:38	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
8/22/2024 10:38	14802	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 10:38	42903	MIDD_T2	2	2	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
8/22/2024 10:39	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
8/22/2024 10:39	14402	SSLA_T1	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
8/22/2024 10:39	14404	SSLA_T1	5	6	1	2.18	1.87	-0.31	0	0	0	0	0	0	0	0
8/22/2024 10:39	14403	SSLA_T1	1	2	1	0.2	0.35	0.15	0.19	0.24	0	0	0	0	0	0
8/22/2024 10:39	15702	TANN_T2	1	2	1	0.1	0.15	0.05	-0.25	-0.27	0	0	0	0	0	0
8/22/2024 10:40	44202	POIN_T2	0	0	0	0	0	0	-0.45	-0.45	1	1	0	1200	1200	0
8/22/2024 10:40	20403	ASHF_T2	4	8	4	0.38	0.39	0.01	1.26	1.38	0	0	0	0	0	0
8/22/2024 10:40	20402	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/22/2024 10:40	20401	ASHF_T2	3	4	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
8/22/2024 10:42	67603	WARW_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/22/2024 10:42	67605	WARW_T1	16	14	-2	0.46	0.39	-0.07	-1	-0.99	0	0	0	0	0	0
8/22/2024 10:42	14404	SSLA_T1	5	6	1	2.18	1.87	-0.31	0	0	0	0	0	0	0	0
8/22/2024 10:42	14403	SSLA_T1	1	2	1	0.2	0.35	0.15	0.19	0.24	0	0	0	0	0	0
8/22/2024 10:42	14402	SSLA_T1	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
8/22/2024 10:42	60101	COCA_T1	0	1	1	0	0.1	0.1	0.4	0.42	0	0	0	0	0	0
8/22/2024 10:42	67804	WLAN_T1	1	2	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
8/22/2024 10:42	67803	WLAN_T1	1	2	1	0.2	0.15	-0.05	-0.8	-0.78	0	0	0	0	0	0
8/22/2024 10:42	67805	WLAN_T1	1	0	-1	8.2	0	-8.2	-0.67	-0.66	0	0	0	0	0	0
8/22/2024 10:42	10504	CRAC_T1	0	0	0	0	0	0	0.11	-0.02	0	0	0	0	0	0
8/22/2024 10:43	20403	ASHF_T2	4	8	4	0.38	0.39	0.01	0	0	0	0	0	0	0	0
8/22/2024 10:43	29401	BELT_T1	3	30	27	0.17	0.17	0	0	0	1	1	0	900	900	0
8/22/2024 10:43	20402	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/22/2024 10:43	67603	WARW_T1	1	1	0	0.3	0.2	-0.1	0.09	0.08	0	0	0	0	0	0
8/22/2024 10:43	51306	WIND_T2	0	0	0	0	0	0	0.21	0.25	0	0	0	0	0	0
8/22/2024 10:43	20401	ASHF_T2	3	4	1	0.3	0.33	0.03	-0.08	-0.02	0	0	0	0	0	0
8/22/2024 10:43	29402	BELT_T1	2	5	3	4.55	2.4	-2.15	0	0	0	0	0	0	0	0
8/22/2024 10:43	51304	WIND_T2	1	1	0	2	1.9	-0.1	0	0	0	0	0	0	0	0
8/22/2024 10:43	67605	WARW_T1	16	14	-2	0.46	0.39	-0.07	0	0	0	0	0	0	0	0
8/22/2024 10:44	20401	ASHF_T2	3	4	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
8/22/2024 10:44	20403	ASHF_T2	4	8	4	0.38	0.39	0.01	1.26	1.38	0	0	0	0	0	0
8/22/2024 10:44	20402	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/22/2024 10:44	46004	BERW_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
8/22/2024 10:45	53601	DALM_T2	1	1	0	0.9	0.3	-0.6	-0.67	-0.55	2	2	0	1800	1800	0
8/22/2024 10:45	67605	WARW_T1	13	13	0	0.41	0.35	-0.06	-1	-0.99	0	0	0	0	0	0
8/22/2024 10:45	60101	COCA_T1	0	2	2	0	0.6	0.6	0.4	0.42	0	0	0	0	0	0
8/22/2024 10:45	67603	WARW_T1	2	3	1	3.4	0.4	-3	0	0	0	0	0	0	0	0
8/22/2024 10:45	60102	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 10:46	60102	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 10:46	60101	COCA_T1	0	2	2	0	0.6	0.6	0.4	0.42	0	0	0	0	0	0
8/22/2024 10:47	46401	FLEM_T2	2	2	0	1.1	0.95	-0.15	0	0	0	0	0	0	0	0
8/22/2024 10:47	46402	FLEM_T2	1	2	1	0.4	0.25	-0.15	-0.58	-0.5	0	0	0	0	0	0
8/22/2024 10:48	63401	HONY_T1	0	0	0	0	0	0	0.17	0.12	1	1	0	600	600	0
8/22/2024 10:49	59001	MIFF_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/22/2024 10:49	59002	MIFF_T1	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
8/22/2024 10:49	42903	MIDD_T2	2	0	-2	0.5	0	-0.5	1.01	1.07	1	1	0	1200	1200	0
8/22/2024 10:49	42902	MIDD_T2	5	8	3	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
8/22/2024 10:49	59003	MIFF_T1	0	1	1	0	0.5	0.5	-0.24	-1.18	0	0	0	0	0	0
8/22/2024 10:50	23202	HIRU_T2	0	1	1	0	0.2	0.2	0.1	0.1	0	0	0	0	0	0
8/22/2024 10:50	23201	HIRU_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
8/22/2024 10:52	56503	ROCK_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/22/2024 10:52	56504	ROCK_T2	1	1	0	0.6	0.6	0	-0.02	0	0	0	0	0	0	0
8/22/2024 10:52	56501	ROCK_T2	4	2	-2	0.35	0.7	0.35	0	0	0	0	0	0	0	0
8/22/2024 10:53	14801	TREI_T2	6	7	1	0.53	0.61	0.08	0	0	0	0	0	0	0	0
8/22/2024 10:53	14802	TREI_T2	0	1	1	0	0.1	0.1	0.6	0.68	0	0	0	0	0	0
8/22/2024 10:53	42802	SELI_T1	1	0	-1	0.6	0	-0.6	-0.9	-0.95	1	1	0	900	900	0
8/22/2024 10:55	56501	ROCK_T2	4	2	-2	0.35	0.7	0.35	0.12	0.18	0	0	0	0	0	0
8/22/2024 10:55	54201	PENN_T1	3	3	0	1.5	1.27	-0.23	-0.83	-0.83	0	0	0	0	0	0
8/22/2024 10:55	54203	PENN_T1	18	14	-4	0.32	0.25	-0.07	0	0	0	0	0	0	0	0
8/22/2024 10:55	56503	ROCK_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/22/2024 10:55	56504	ROCK_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/22/2024 10:56	42802	SELI_T1	1	0	-1	0.6	0	-0.6	-0.9	-0.95	1	1	0	900	900	0
8/22/2024 10:56	67603	WARW_T1	2	3	1	3.4	0.4	-3	0	0	0	0	0	0	0	0
8/22/2024 10:56	67605	WARW_T1	13	13	0	0.41	0.35	-0.06	-0.99	-0.95	0	0	0	0	0	0
8/22/2024 10:57	60101	COCA_T1	0	2	2	0	0.6	0.6	0.42	0.44	0	0	0	0	0	0
8/22/2024 10:57	60102	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 10:57	42802	SELI_T1	1	0	-1	0.6	0	-0.6	-0.9	-0.95	1	1	0	900	900	0
8/22/2024 10:58	60102	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 10:58	42701	AUGU_T1	3	3	0	0.63	0.57	-0.06	0	0	2	2	0	1800	1800	0
8/22/2024 10:58	60101	COCA_T1	0	2	2	0	0.6	0.6	0.83	0.88	0	0	0	0	0	0
8/22/2024 10:58	67605	WARW_T1	13	13	0	0.41	0.35	-0.06	-0.99	-0.95	0	0	0	0	0	0
8/22/2024 10:58	67603	WARW_T1	2	3	1	3.4	0.4	-3	0	0	0	0	0	0	0	0
8/22/2024 10:59	61501	EPET_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
8/22/2024 10:59	67603	WARW_T1	2	3	1	3.4	0.4	-3	0	0	0	0	0	0	0	0
8/22/2024 10:59	67605	WARW_T1	13	13	0	0.41	0.35	-0.06	-0.99	-0.95	0	0	0	0	0	0
8/22/2024 10:59	61504	EPET_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
8/22/2024 11:00	12001	HATF_T1	0	0	0	0	0	0	0.78	0.81	1	1	0	600	600	0
8/22/2024 11:00	11904	ETEX_T2	1	1	0	3.1	3.4	0.3	0	0	0	0	0	0	0	0
8/22/2024 11:00	11901	ETEX_T2	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
8/22/2024 11:01	54505	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/22/2024 11:01	60801	BUCK_T1	1	0	-1	0.1	0	-0.1	0.15	0.14	0	0	0	0	0	0
8/22/2024 11:01	60101	COCA_T1	1	3	2	0.1	0.43	0.33	0.42	0.44	0	0	0	0	0	0
8/22/2024 11:01	11904	ETEX_T2	1	1	0	3.1	3.4	0.3	0	0	0	0	0	0	0	0
8/22/2024 11:01	60102	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 11:01	54504	ENOL_T2	1	1	0	0.5	0.3	-0.2	-1.08	-1.05	1	1	0	600	600	0
8/22/2024 11:01	63302	GREE_T1	0	0	0	0	0	0	0.88	0.94	0	0	0	0	0	0
8/22/2024 11:01	11901	ETEX_T2	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
8/22/2024 11:02	28702	HAMI_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
8/22/2024 11:02	28701	HAMI_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/22/2024 11:03	16402	MOPO_T1	1	1	0	0.3	0.7	0.4	0.27	0.3	0	0	0	0	0	0
8/22/2024 11:04	12001	HATF_T1	0	0	0	0	0	0	0.78	0.81	1	1	0	600	600	0
8/22/2024 11:05	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 11:06	40101	HUNT_T2	1	4	3	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
8/22/2024 11:06	16402	MOPO_T1	1	1	0	0.3	0.7	0.4	0.3	0.29	0	0	0	0	0	0
8/22/2024 11:07	41002	LAUR_T2	2	1	-1	1.15	2	0.85	-0.89	-0.89	0	0	0	0	0	0
8/22/2024 11:07	41001	LAUR_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 11:08	55001	NEWP_T1	0	1	1	0	0.5	0.5	0.03	0.01	0	0	0	0	0	0
8/22/2024 11:08	55002	NEWP_T1	4	9	5	0.5	0.74	0.24	0	0	0	0	0	0	0	0
8/22/2024 11:08	16402	MOPO_T1	1	1	0	0.3	0.7	0.4	0.3	0.29	0	0	0	0	0	0
8/22/2024 11:09	13704	SCHN_T2	1	0	-1	0.1	0	-0.1	0	0.03	0	0	0	0	0	0
8/22/2024 11:09	59201	THOM_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/22/2024 11:09	41001	LAUR_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 11:09	59202	THOM_T1	0	9	9	0	0.37	0.37	0	0	0	0	0	0	0	0
8/22/2024 11:09	41002	LAUR_T2	2	1	-1	1.15	2	0.85	-0.89	-0.89	0	0	0	0	0	0
8/22/2024 11:10	59202	THOM_T1	0	9	9	0	0.37	0.37	0	0	0	0	0	0	0	0
8/22/2024 11:10	59201	THOM_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/22/2024 11:11	42503	ALTA_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
8/22/2024 11:12	13704	SCHN_T2	1	0	-1	0.1	0	-0.1	0	0.03	0	0	0	0	0	0
8/22/2024 11:12	44801	EDAN_T2	97	70	-27	0.52	0.64	0.12	0	0	0	0	0	0	0	0
8/22/2024 11:12	44802	EDAN_T2	0	0	0	0	0	0	-1.08	-0.86	0	0	0	0	0	0
8/22/2024 11:13	67605	WARW_T1	13	13	0	0.34	0.38	0.04	-0.95	-0.95	0	0	0	0	0	0
8/22/2024 11:13	44802	EDAN_T2	0	0	0	0	0	0	-0.54	-0.43	0	0	0	0	0	0
8/22/2024 11:13	44801	EDAN_T2	97	70	-27	0.52	0.64	0.12	0	0	0	0	0	0	0	0
8/22/2024 11:13	67603	WARW_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
8/22/2024 11:14	11104	EGYP_T1	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
8/22/2024 11:14	60102	COCA_T1	0	1	1	0	0.2	0.2	-0.69	-0.56	3	3	0	2100	2100	0
8/22/2024 11:14	44801	EDAN_T2	97	70	-27	0.52	0.64	0.12	-1.5	-1.51	0	0	0	0	0	0
8/22/2024 11:14	60101	COCA_T1	1	3	2	0.1	0.43	0.33	0.44	0.49	0	0	0	0	0	0
8/22/2024 11:14	44802	EDAN_T2	0	0	0	0	0	0	-0.54	-0.43	0	0	0	0	0	0
8/22/2024 11:16	44802	EDAN_T2	0	0	0	0	0	0	-0.54	-0.43	0	0	0	0	0	0
8/22/2024 11:16	44801	EDAN_T2	70	63	-7	0.6	0.68	0.08	0	0	0	0	0	0	0	0
8/22/2024 11:17	44801	EDAN_T2	70	63	-7	0.6	0.68	0.08	-1.5	-1.51	0	0	0	0	0	0
8/22/2024 11:17	60101	COCA_T1	2	3	1	0.6	0.57	-0.03	0.44	0.49	0	0	0	0	0	0
8/22/2024 11:17	60102	COCA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 11:17	40101	HUNT_T2	2	10	8	0.45	0.5	0.05	-0.06	-0.02	0	0	0	0	0	0
8/22/2024 11:18	60102	COCA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 11:18	59302	MCAL_T1	2	2	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
8/22/2024 11:18	59301	MCAL_T1	6	6	0	0.62	0.65	0.03	-1.52	-1.51	1	1	0	600	600	0
8/22/2024 11:18	60101	COCA_T1	2	3	1	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
8/22/2024 11:20	64902	MILL_T2	0	0	0	0	0	0	-0.17	-0.11	0	0	0	0	0	0
8/22/2024 11:20	51201	MTON_T1	1	1	0	0.4	0.3	-0.1	0.08	0.09	0	0	0	0	0	0
8/22/2024 11:22	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 11:22	21703	SUBU_T1	0	0	0	0	0	0	0.96	0.88	0	0	0	0	0	0
8/22/2024 11:22	21705	SUBU_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 11:22	21701	SUBU_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
8/22/2024 11:22	16203	POFA_T2	1	5	4	0.2	0.38	0.18	0	0	0	0	0	0	0	0
8/22/2024 11:22	64101	REFR_T1	0	1	1	0	1.3	1.3	0.02	0	0	0	0	0	0	0
8/22/2024 11:22	59101	WALK_T2	1	15	14	0.8	0.28	-0.52	1.82	2.1	0	0	0	0	0	0
8/22/2024 11:22	67201	TEHI_T1	2	3	1	0.25	1.15	0.9	0.63	0.53	1	1	0	900	900	0
8/22/2024 11:23	13704	SCHN_T2	0	1	1	0	0.1	0.1	0.03	-0.1	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/22/2024 11:23	61505	EPET_T1	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
8/22/2024 11:25	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 11:25	56503	ROCK_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/22/2024 11:25	16204	POFA_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
8/22/2024 11:25	56501	ROCK_T2	2	5	3	0.7	0.4	-0.3	0.2	0.2	0	0	0	0	0	0
8/22/2024 11:25	58402	MORO_T1	0	0	0	0	0	0	-0.11	-0.16	2	2	0	1500	1500	0
8/22/2024 11:25	16202	POFA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 11:25	56504	ROCK_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/22/2024 11:26	45402	WBLO_T2	3	3	0	0.93	0.9	-0.03	-0.6	-0.57	0	0	0	0	0	0
8/22/2024 11:26	43103	SMIL_T2	19	19	0	0.56	0.66	0.1	0	0	0	0	0	0	0	0
8/22/2024 11:26	43105	SMIL_T2	2	2	0	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
8/22/2024 11:26	43102	SMIL_T2	7	5	-2	0.42	0.43	0.01	0	0	0	0	0	0	0	0
8/22/2024 11:26	43101	SMIL_T2	1	1	0	0.3	0.8	0.5	-0.51	-0.48	0	0	0	0	0	0
8/22/2024 11:26	43104	SMIL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/22/2024 11:27	43101	SMIL_T2	1	1	0	0.3	0.8	0.5	-0.51	-0.48	0	0	0	0	0	0
8/22/2024 11:27	43104	SMIL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/22/2024 11:27	43102	SMIL_T2	7	5	-2	0.42	0.43	0.01	0	0	0	0	0	0	0	0
8/22/2024 11:27	43103	SMIL_T2	19	19	0	0.56	0.66	0.1	0	0	0	0	0	0	0	0
8/22/2024 11:27	43105	SMIL_T2	2	2	0	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
8/22/2024 11:28	45402	WBLO_T2	3	3	0	0.93	0.9	-0.03	-0.6	-0.57	0	0	0	0	0	0
8/22/2024 11:29	16005	DORN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 11:29	16004	DORN_T1	1	2	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
8/22/2024 11:30	44703	MUNC_T2	2	2	0	0.6	0.6	0	1.01	1.02	0	0	0	0	0	0
8/22/2024 11:30	44701	MUNC_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/22/2024 11:31	60801	BUCK_T1	0	1	1	0	0.1	0.1	0.13	0.13	0	0	0	0	0	0
8/22/2024 11:31	44701	MUNC_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/22/2024 11:31	47001	HUGH_T2	3	3	0	7.97	7.8	-0.17	0	0.01	0	0	0	0	0	0
8/22/2024 11:31	44703	MUNC_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/22/2024 11:31	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 11:32	11903	ETEX_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/22/2024 11:33	40101	HUNT_T2	3	9	6	0.7	0.47	-0.23	-0.02	-0.1	0	0	0	0	0	0
8/22/2024 11:35	57304	MOAL_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
8/22/2024 11:35	57306	MOAL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/22/2024 11:35	57303	MOAL_T2	1	1	0	7.4	7.3	-0.1	0	0	0	0	0	0	0	0
8/22/2024 11:36	64201	KINZ_T1	0	0	0	0	0	0	-0.15	-0.35	3	3	0	1500	1500	0
8/22/2024 11:36	64202	KINZ_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
8/22/2024 11:36	64204	KINZ_T1	24	21	-3	0.37	0.4	0.03	0	0	0	0	0	0	0	0
8/22/2024 11:37	57104	SPHI_T2	3	8	5	0.6	0.68	0.08	-0.77	-0.74	0	0	0	0	0	0
8/22/2024 11:37	57101	SPHI_T2	6	8	2	0.57	1.08	0.51	0	0	0	0	0	0	0	0
8/22/2024 11:37	57103	SPHI_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/22/2024 11:37	57106	SPHI_T2	3	8	5	0.9	0.81	-0.09	0	0	0	0	0	0	0	0
8/22/2024 11:37	57102	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 11:38	41902	REED_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/22/2024 11:38	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 11:39	57106	SPHI_T2	3	8	5	0.9	0.81	-0.09	0	0	0	0	0	0	0	0
8/22/2024 11:39	60501	NMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 11:39	13704	SCHN_T2	0	1	1	0	0.2	0.2	-0.1	-0.1	0	0	0	0	0	0
8/22/2024 11:39	57102	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 11:39	57101	SPHI_T2	6	8	2	0.57	1.08	0.51	0	0	0	0	0	0	0	0
8/22/2024 11:39	57103	SPHI_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/22/2024 11:39	66901	SHIL_T2	2	2	0	0.3	0.55	0.25	-1.37	-1.34	1	1	0	1200	1200	0
8/22/2024 11:39	66902	SHIL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/22/2024 11:39	57104	SPHI_T2	3	8	5	0.6	0.68	0.08	-0.77	-0.74	0	0	0	0	0	0
8/22/2024 11:39	60504	NMAN_T2	2	3	1	0.7	0.93	0.23	0	0	0	0	0	0	0	0
8/22/2024 11:39	66903	SHIL_T2	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
8/22/2024 11:40	57101	SPHI_T2	6	8	2	0.57	1.08	0.51	0	0	0	0	0	0	0	0
8/22/2024 11:40	57106	SPHI_T2	3	8	5	0.9	0.81	-0.09	0	0	0	0	0	0	0	0
8/22/2024 11:40	57103	SPHI_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/22/2024 11:40	57102	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 11:40	57104	SPHI_T2	3	8	5	0.6	0.68	0.08	-0.77	-0.74	0	0	0	0	0	0
8/22/2024 11:41	60504	NMAN_T2	2	3	1	0.7	0.93	0.23	0	0	0	0	0	0	0	0
8/22/2024 11:41	60502	NMAN_T2	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
8/22/2024 11:41	64202	KINZ_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
8/22/2024 11:41	60501	NMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 11:41	64201	KINZ_T1	0	0	0	0	0	0	-0.15	-0.35	3	3	0	1500	1500	0
8/22/2024 11:41	14801	TREI_T2	8	5	-3	0.55	0.76	0.21	-0.21	-0.2	0	0	0	0	0	0
8/22/2024 11:41	64204	KINZ_T1	24	21	-3	0.37	0.4	0.03	0	0	0	0	0	0	0	0
8/22/2024 11:41	14802	TREI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/22/2024 11:43	60701	BREC_T1	0	2	2	0	0.25	0.25	-0.32	-0.03	2	2	0	1200	1200	0
8/22/2024 11:44	60701	BREC_T1	0	2	2	0	0.25	0.25	-0.32	-0.03	2	2	0	1200	1200	0
8/22/2024 11:45	60701	BREC_T1	2	0	-2	0.25	0	-0.25	-0.32	-0.03	2	2	0	1200	1200	0
8/22/2024 11:46	15001	BLMO_T1	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/22/2024 11:47	40901	JESH_T1	1	1	0	1.4	1.4	0	0.38	0.45	0	0	0	0	0	0
8/22/2024 11:50	13501	MCMI_T1	1	1	0	0.1	0.1	0	0.19	0.2	0	0	0	0	0	0
8/22/2024 11:50	44203	POIN_T2	0	0	0	0	0	0	0.06	-0.05	2	2	0	2100	2100	0
8/22/2024 11:50	13502	MCMI_T1	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
8/22/2024 11:51	51201	MTON_T1	0	1	1	0	0.4	0.4	0.11	0.15	0	0	0	0	0	0
8/22/2024 11:52	58401	MORO_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/22/2024 11:52	58402	MORO_T1	0	0	0	0	0	0	-0.16	-0.13	2	2	0	1500	1500	0
8/22/2024 11:53	47402	PENS_T1	2	3	1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
8/22/2024 11:53	43802	SWIL_T1	0	0	0	0	0	0	-0.04	-0.04	1	1	0	600	600	0
8/22/2024 11:53	47403	PENS_T1	3	5	2	0.73	0.84	0.11	0	0	0	0	0	0	0	0
8/22/2024 11:53	13502	MCMI_T1	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
8/22/2024 11:53	43801	SWIL_T1	1	2	1	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
8/22/2024 11:53	14705	TREX_T1	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
8/22/2024 11:53	58706	ROSE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 11:53	58702	ROSE_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
8/22/2024 11:53	15201	SFAR_T1	0	0	0	0	0	0	0.21	0.25	2	2	0	1800	1800	0
8/22/2024 11:53	13501	MCMI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/22/2024 11:53	47401	PENS_T1	3	20	17	1.23	0.54	-0.69	0.3	1.54	0	0	0	0	0	0
8/22/2024 11:53	58705	ROSE_T2	5	6	1	2.46	1.98	-0.48	0	0	0	0	0	0	0	0
8/22/2024 11:56	65904	SAKR_T2	5	4	-1	0.26	0.18	-0.08	-1.52	-1.51	2	2	0	900	900	0
8/22/2024 11:56	65901	SAKR_T2	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
8/22/2024 11:56	13704	SCHN_T2	1	1	0	0.1	0.2	0.1	-0.1	0.07	0	0	0	0	0	0
8/22/2024 11:57	57003	WHHI_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
8/22/2024 11:57	57006	WHHI_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/22/2024 11:57	53601	DALM_T2	1	1	0	1.1	1.2	0.1	-0.32	-0.27	1	1	0	900	900	0
8/22/2024 11:57	57002	WHHI_T2	1	0	-1	0.2	0	-0.2	-1.1	-1.11	1	1	0	1200	1200	0
8/22/2024 11:57	57004	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 11:58	64203	KINZ_T1	0	0	0	0	0	0	0.46	0.35	3	3	0	2100	2100	0
8/22/2024 11:58	57003	WHHI_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
8/22/2024 11:58	64202	KINZ_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/22/2024 11:58	57004	WHHI_T2	1	0	-1	0.1	0	-0.1	-0.28	-0.22	0	0	0	0	0	0
8/22/2024 11:58	57006	WHHI_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/22/2024 11:58	57002	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 11:58	64204	KINZ_T1	3	21	18	0.83	0.4	-0.43	0	0	0	0	0	0	0	0
8/22/2024 11:59	41501	FAIR_T2	0	0	0	0	0	0	-0.84	-0.82	1	1	0	600	600	0
8/22/2024 11:59	61701	ELIZ_T1	2	2	0	1.75	2.3	0.55	0	0	0	0	0	0	0	0
8/22/2024 11:59	61703	ELIZ_T1	0	0	0	0	0	0	-2.36	-2.25	2	2	0	2100	2100	0
8/22/2024 11:59	41502	FAIR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 12:00	43402	BENT_T1	1	2	1	0.4	0.8	0.4	0.28	0.31	0	0	0	0	0	0
8/22/2024 12:00	61703	ELIZ_T1	0	0	0	0	0	0	-2.36	-2.25	2	2	0	2100	2100	0
8/22/2024 12:00	61701	ELIZ_T1	2	2	0	2	2.5	0.5	0	0	0	0	0	0	0	0
8/22/2024 12:01	43402	BENT_T1	1	2	1	0.4	0.8	0.4	0.28	0.31	0	0	0	0	0	0
8/22/2024 12:01	40201	BEGA_T2	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
8/22/2024 12:02	61703	ELIZ_T1	0	0	0	0	0	0	-2.36	-2.25	2	2	0	2100	2100	0
8/22/2024 12:02	61701	ELIZ_T1	2	2	0	2	2.5	0.5	0	0	0	0	0	0	0	0
8/22/2024 12:03	52403	GRPA_T2	4	1	-3	0.38	0.5	0.12	0	0	0	0	0	0	0	0
8/22/2024 12:03	52401	GRPA_T2	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
8/22/2024 12:03	52402	GRPA_T2	15	10	-5	0.45	0.46	0.01	-0.83	-0.82	0	0	0	0	0	0
8/22/2024 12:05	52402	GRPA_T2	15	10	-5	0.45	0.46	0.01	-0.83	-0.82	0	0	0	0	0	0
8/22/2024 12:05	64902	MILL_T2	0	0	0	0	0	0	-0.12	-0.09	0	0	0	0	0	0
8/22/2024 12:05	64903	MILL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 12:05	52403	GRPA_T2	4	1	-3	0.38	0.5	0.12	0	0	0	0	0	0	0	0
8/22/2024 12:05	24702	FLND_T2	0	2	2	0	0.1	0.1	1.62	0.99	1	2	1	1200	2400	1200
8/22/2024 12:06	47403	PENS_T1	5	2	-3	0.84	0.65	-0.19	0	0	0	0	0	0	0	0
8/22/2024 12:06	47402	PENS_T1	3	1	-2	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/22/2024 12:06	47401	PENS_T1	20	2	-18	0.54	0.6	0.06	1.54	1.33	0	0	0	0	0	0
8/22/2024 12:06	44202	POIN_T2	0	0	0	0	0	0	-0.37	-0.35	1	1	0	1200	1200	0
8/22/2024 12:07	47403	PENS_T1	5	2	-3	0.84	0.65	-0.19	0	0	0	0	0	0	0	0
8/22/2024 12:07	21701	SUBU_T1	1	1	0	6.7	6.7	0	0.79	0.77	0	0	0	0	0	0
8/22/2024 12:07	67002	STHI_T2	0	0	0	0	0	0	0.77	0.78	0	0	0	0	0	0
8/22/2024 12:07	64903	MILL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 12:07	55101	WERT_T1	0	0	0	0	0	0	-1.42	-1.36	3	3	0	2400	2400	0
8/22/2024 12:07	64902	MILL_T2	0	0	0	0	0	0	-0.09	-0.06	0	0	0	0	0	0
8/22/2024 12:07	21705	SUBU_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
8/22/2024 12:07	47401	PENS_T1	20	2	-18	0.54	0.6	0.06	1.54	1.33	0	0	0	0	0	0
8/22/2024 12:07	47402	PENS_T1	3	1	-2	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/22/2024 12:07	64101	REFR_T1	1	1	0	1	1.2	0.2	0.02	0.05	0	0	0	0	0	0
8/22/2024 12:09	58201	NEWV_T1	2	0	-2	4	0	-4	0	0	0	0	0	0	0	0
8/22/2024 12:09	67401	WAKE_T2	3	5	2	0.43	0.42	-0.01	-0.9	-0.89	0	0	0	0	0	0
8/22/2024 12:09	67203	TEHI_T1	0	0	0	0	0	0	2.56	2.59	3	3	0	2100	2100	0
8/22/2024 12:09	67201	TEHI_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/22/2024 12:09	58202	NEWV_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
8/22/2024 12:09	62105	ELAN_T1	1	1	0	0.2	0.2	0	1.1	1.07	0	0	0	0	0	0
8/22/2024 12:10	66504	SMAN_T2	0	0	0	0	0	0	-0.01	0.08	0	0	0	0	0	0
8/22/2024 12:10	67502	WEWI_T2	3	3	0	0.83	0.8	-0.03	-0.08	-0.03	0	0	0	0	0	0
8/22/2024 12:10	66505	SMAN_T2	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
8/22/2024 12:10	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 12:10	64101	REFR_T1	1	1	0	1	1.2	0.2	0.02	0.05	0	0	0	0	0	0
8/22/2024 12:10	67503	WEWI_T2	1	2	1	8	4.15	-3.85	-0.01	0	0	0	0	0	0	0
8/22/2024 12:10	13704	SCHN_T2	1	0	-1	0.2	0	-0.2	0.07	-0.08	0	0	0	0	0	0
8/22/2024 12:10	66501	SMAN_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/22/2024 12:11	67502	WEWI_T2	3	3	0	0.83	0.8	-0.03	0	0	0	0	0	0	0	0
8/22/2024 12:11	67602	WARW_T2	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
8/22/2024 12:11	67503	WEWI_T2	1	2	1	8	4.15	-3.85	-0.01	0	0	0	0	0	0	0
8/22/2024 12:12	12605	MACA_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/22/2024 12:12	12601	MACA_T1	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
8/22/2024 12:12	43101	SMIL_T2	2	1	-1	0.55	1.3	0.75	0	0	0	0	0	0	0	0
8/22/2024 12:12	16004	DORN_T1	2	1	-1	1	0.8	-0.2	-0.52	-0.5	1	1	0	1200	1200	0
8/22/2024 12:12	67602	WARW_T2	0	0	0	0	0	0	1.21	1.21	0	0	0	0	0	0
8/22/2024 12:12	43104	SMIL_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
8/22/2024 12:12	12604	MACA_T1	3	2	-1	0.33	0.35	0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/22/2024 12:12	43103	SMIL_T2	18	19	1	0.43	0.43	0	0	0	0	0	0	0	0	0
8/22/2024 12:12	43102	SMIL_T2	5	4	-1	0.4	0.37	-0.03	-0.66	-0.63	1	1	0	600	600	0
8/22/2024 12:12	16005	DORN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 12:12	43105	SMIL_T2	2	2	0	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
8/22/2024 12:12	12602	MACA_T1	2	22	20	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/22/2024 12:13	67602	WARW_T2	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
8/22/2024 12:13	47402	PENS_T1	3	1	-2	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/22/2024 12:13	47403	PENS_T1	5	2	-3	0.84	0.65	-0.19	0	0	0	0	0	0	0	0
8/22/2024 12:13	47401	PENS_T1	20	2	-18	0.54	0.6	0.06	1.54	1.33	0	0	0	0	0	0
8/22/2024 12:13	16005	DORN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 12:13	16004	DORN_T1	2	1	-1	1	0.8	-0.2	-0.52	-0.5	1	1	0	1200	1200	0
8/22/2024 12:14	43104	SMIL_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
8/22/2024 12:14	63303	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 12:14	63304	GREE_T1	0	1	1	0	0.1	0.1	-1.41	-1.34	0	0	0	0	0	0
8/22/2024 12:14	10701	CATA_T2	0	0	0	0	0	0	-0.36	-0.35	1	1	0	1200	1200	0
8/22/2024 12:14	43102	SMIL_T2	5	4	-1	0.4	0.37	-0.03	-0.66	-0.63	1	1	0	600	600	0
8/22/2024 12:14	47203	FAXO_T2	0	0	0	0	0	0	-2.37	-1.44	1	1	0	1200	1200	0
8/22/2024 12:14	43105	SMIL_T2	2	2	0	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
8/22/2024 12:14	43103	SMIL_T2	18	19	1	0.43	0.43	0	0	0	0	0	0	0	0	0
8/22/2024 12:14	43101	SMIL_T2	2	1	-1	0.55	1.3	0.75	0	0	0	0	0	0	0	0
8/22/2024 12:14	63305	GREE_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/22/2024 12:14	63306	GREE_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/22/2024 12:15	43105	SMIL_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/22/2024 12:15	14204	EALL_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
8/22/2024 12:15	23202	HIRU_T2	2	3	1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
8/22/2024 12:15	43101	SMIL_T2	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
8/22/2024 12:15	43103	SMIL_T2	18	18	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
8/22/2024 12:15	53903	HALI_T2	6	7	1	0.63	0.61	-0.02	0	0	0	0	0	0	0	0
8/22/2024 12:15	23201	HIRU_T2	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/22/2024 12:15	53902	HALI_T2	3	3	0	2.27	2.13	-0.14	-0.09	-0.09	0	0	0	0	0	0
8/22/2024 12:15	53901	HALI_T2	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
8/22/2024 12:15	43102	SMIL_T2	4	4	0	0.37	0.3	-0.07	-0.66	-0.63	1	1	0	600	600	0
8/22/2024 12:15	23203	HIRU_T2	0	1	1	0	0.2	0.2	0.1	0.16	0	0	0	0	0	0
8/22/2024 12:15	43104	SMIL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/22/2024 12:16	11302	EMMA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/22/2024 12:16	45501	DERR_T2	1	3	2	0.2	0.15	-0.05	1.01	0.94	2	2	0	1800	1800	0
8/22/2024 12:16	11303	EMMA_T1	1	2	1	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
8/22/2024 12:16	11301	EMMA_T1	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
8/22/2024 12:16	45502	DERR_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/22/2024 12:17	67602	WARW_T2	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
8/22/2024 12:17	40901	JESH_T1	1	1	0	1.4	1.7	0.3	0	0	0	0	0	0	0	0
8/22/2024 12:17	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 12:18	63804	HEMP_T1	1	1	0	6.6	6.6	0.1	-0.36	-0.36	0	0	0	0	0	0
8/22/2024 12:18	53501	EVIL_T2	1	2	1	0.5	0.2	-0.3	-0.01	-0.01	1	1	0	600	600	0
8/22/2024 12:19	52403	GRPA_T2	1	1	0	0.4	0.5	0.1	0.09	0.14	0	0	0	0	0	0
8/22/2024 12:19	23201	HIRU_T2	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/22/2024 12:19	52402	GRPA_T2	8	12	4	0.4	0.42	0.02	0	0	0	0	0	0	0	0
8/22/2024 12:19	45802	HEGI_T2	9	35	26	0.27	0.58	0.31	0.91	0.84	4	4	0	2400	2400	0
8/22/2024 12:19	23203	HIRU_T2	0	1	1	0	0.2	0.2	0.1	0.16	0	0	0	0	0	0
8/22/2024 12:19	23202	HIRU_T2	2	3	1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
8/22/2024 12:19	40101	HUNT_T2	2	1	-1	0.3	0	-0.3	-0.36	-0.36	0	0	0	0	0	0
8/22/2024 12:20	63601	LETO_T1	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
8/22/2024 12:20	63602	LETO_T1	0	1	1	0	0.1	0.1	-0.36	-0.2	0	0	0	0	0	0
8/22/2024 12:21	44201	POIN_T1	0	2	2	0	0.1	0.1	-1.03	-1.04	2	2	0	2100	2100	0
8/22/2024 12:22	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 12:23	14801	TREI_T2	5	6	1	0.76	0.9	0.14	0	0	0	0	0	0	0	0
8/22/2024 12:23	52403	GRPA_T2	1	1	0	0.4	0.5	0.1	0.14	0.15	0	0	0	0	0	0
8/22/2024 12:23	14802	TREI_T2	1	2	1	0.2	0.3	0.1	0.67	0.74	0	0	0	0	0	0
8/22/2024 12:23	52402	GRPA_T2	8	12	4	0.4	0.42	0.02	0	0	0	0	0	0	0	0
8/22/2024 12:24	12602	MACA_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/22/2024 12:24	12601	MACA_T1	2	2	0	1.3	1.35	0.05	0	0	0	0	0	0	0	0
8/22/2024 12:24	12604	MACA_T1	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
8/22/2024 12:24	12605	MACA_T1	1	0	-1	0.5	0	-0.5	0.38	0.37	0	0	0	0	0	0
8/22/2024 12:25	64101	REFR_T1	1	1	0	1.1	1.2	0.1	0.05	0.03	0	0	0	0	0	0
8/22/2024 12:26	14801	TREI_T2	5	6	1	0.76	0.9	0.14	0	0	0	0	0	0	0	0
8/22/2024 12:26	14802	TREI_T2	1	2	1	0.2	0.3	0.1	0.67	0.74	0	0	0	0	0	0
8/22/2024 12:27	12602	MACA_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/22/2024 12:27	12605	MACA_T1	1	0	-1	0.5	0	-0.5	0.38	0.37	0	0	0	0	0	0
8/22/2024 12:27	12601	MACA_T1	2	2	0	1.3	1.35	0.05	0	0	0	0	0	0	0	0
8/22/2024 12:27	12604	MACA_T1	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
8/22/2024 12:27	43402	BENT_T1	2	1	-1	0.45	0.9	0.45	0.31	0.35	0	0	0	0	0	0
8/22/2024 12:28	44301	BEAV_T2	6	3	-3	0.58	0.55	-0.03	0.38	1.89	6	6	0	4500	4500	0
8/22/2024 12:28	44302	BEAV_T2	9	2	-7	0.57	0.85	0.28	0	0	0	0	0	0	0	0
8/22/2024 12:29	44701	MUNC_T2	2	1	-1	0.45	0.7	0.25	0	0	0	0	0	0	0	0
8/22/2024 12:29	44703	MUNC_T2	3	2	-1	0.5	0.5	0	1.07	1.04	0	0	0	0	0	0
8/22/2024 12:30	44703	MUNC_T2	2	2	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
8/22/2024 12:30	44701	MUNC_T2	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
8/22/2024 12:31	53501	EVIL_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 12:31	53502	EVIL_T2	0	0	0	0	0	0	0.62	1.15	2	2	0	1200	1200	0
8/22/2024 12:32	63501	HEID_TBK1-2	55	58	3	1.7	1.46	-0.24	0.41	0.38	1	1	0	900	900	0
8/22/2024 12:33	63306	GREE_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/22/2024 12:33	63304	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 12:33	63303	GREE_T1	0	0	0	0	0	0	-0.11	0.08	2	2	0	1800	1800	0
8/22/2024 12:33	63305	GREE_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/22/2024 12:34	10206	ALLE_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/22/2024 12:34	40101	HUNT_T2	1	0	-1	0.4	0	-0.4	-0.36	-0.32	0	0	0	0	0	0
8/22/2024 12:34	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
8/22/2024 12:34	53501	EVIL_T2	2	0	-2	0.2	0	-0.2	-0.01	-0.01	1	1	0	600	600	0
8/22/2024 12:34	15702	TANN_T2	1	1	0	0.7	0.5	-0.2	-0.16	-0.23	0	0	0	0	0	0
8/22/2024 12:34	15703	TANN_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
8/22/2024 12:34	10102	ALLE_T2	1	1	0	7	7	0	0	0	0	0	0	0	0	0
8/22/2024 12:34	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 12:35	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
8/22/2024 12:35	52101	MEIS_T1	4	3	-1	1.05	0.63	-0.42	0	0	0	0	0	0	0	0
8/22/2024 12:36	13503	MCMI_T2	2	2	0	0.55	0.55	0	0	0.03	0	0	0	0	0	0
8/22/2024 12:37	57201	ROSS_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/22/2024 12:37	65603	QVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/22/2024 12:37	57205	ROSS_T1	3	3	0	1	0.7	-0.3	0.52	0.51	0	0	0	0	0	0
8/22/2024 12:37	65601	QVIL_T2	2	0	-2	0.15	0	-0.15	-0.82	-0.73	1	1	0	900	900	0
8/22/2024 12:37	57203	ROSS_T1	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/22/2024 12:38	46206	DANV_T2	1	2	1	0.6	0.65	0.05	0	0	0	0	0	0	0	0
8/22/2024 12:38	20801	LOPO_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
8/22/2024 12:38	21701	SUBU_T1	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
8/22/2024 12:38	41902	REED_T1	0	1	1	0	0.1	0.1	1.21	1.18	0	0	0	0	0	0
8/22/2024 12:38	14706	TREX_T1	0	0	0	0	0	0	0.53	0.62	2	2	0	2100	2100	0
8/22/2024 12:38	21705	SUBU_T1	1	1	0	6.4	6.2	-0.2	0.76	-0.1	0	1	1	0	1200	1200
8/22/2024 12:38	46203	DANV_T2	1	2	1	7.7	3.85	-3.85	-0.6	-0.6	0	0	0	0	0	0
8/22/2024 12:39	41902	REED_T1	0	1	1	0	0.1	0.1	1.21	1.18	0	0	0	0	0	0
8/22/2024 12:40	57403	SPAN_T1	11	11	0	0.24	0.53	0.29	0	0	0	0	0	0	0	0
8/22/2024 12:40	57401	SPAN_T1	3	3	0	3.17	3.07	-0.1	0.55	0.59	0	0	0	0	0	0
8/22/2024 12:41	41602	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	1	1	0	600	600
8/22/2024 12:41	57401	SPAN_T1	3	3	0	3.17	3.07	-0.1	0.55	0.59	0	0	0	0	0	0
8/22/2024 12:41	65901	SAKR_T2	1	1	0	7	6.9	-0.1	-0.25	-0.15	1	1	0	600	600	0
8/22/2024 12:41	57403	SPAN_T1	11	11	0	0.24	0.53	0.29	0	0	0	0	0	0	0	0
8/22/2024 12:41	41902	REED_T1	0	1	1	0	0.1	0.1	1.21	1.18	0	0	0	0	0	0
8/22/2024 12:42	53501	EVIL_T2	2	0	-2	0.2	0	-0.2	-0.01	-0.01	1	1	0	600	600	0
8/22/2024 12:43	57401	SPAN_T1	3	3	0	3.17	3.07	-0.1	0.55	0.59	0	0	0	0	0	0
8/22/2024 12:43	57403	SPAN_T1	11	11	0	0.24	0.53	0.29	0	0	0	0	0	0	0	0
8/22/2024 12:44	57702	PAKT_T1	1	0	-1	0.2	0	-0.2	0.1	0.12	0	0	0	0	0	0
8/22/2024 12:44	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.73	-0.71	0	0	0	0	0	0
8/22/2024 12:44	67804	WLAN_T1	3	3	0	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
8/22/2024 12:46	45502	DERR_T2	1	4	3	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
8/22/2024 12:46	45501	DERR_T2	1	2	1	0.4	0.65	0.25	0.96	1.06	2	2	0	1800	1800	0
8/22/2024 12:47	63804	HEMP_T1	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
8/22/2024 12:47	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 12:47	61506	EPET_T2	0	0	0	0	0	0	-0.39	-0.36	1	1	0	900	900	0
8/22/2024 12:47	61501	EPET_T2	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
8/22/2024 12:47	44801	EDAN_T2	107	66	-41	0.5	0.58	0.08	-1.53	-1.46	0	0	0	0	0	0
8/22/2024 12:47	44802	EDAN_T2	1	0	-1	0.1	0	-0.1	-0.49	-0.47	0	0	0	0	0	0
8/22/2024 12:47	61504	EPET_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
8/22/2024 12:47	63803	HEMP_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
8/22/2024 12:48	26803	JAFR_T1	1	1	0	0.5	1.6	1.1	-0.13	-0.11	1	1	0	900	900	0
8/22/2024 12:49	42002	MNVL_T2	1	1	0	4.4	4.3	-0.1	0	0	0	0	0	0	0	0
8/22/2024 12:49	45501	DERR_T2	1	2	1	0.4	0.65	0.25	0.96	1.06	2	2	0	1800	1800	0
8/22/2024 12:49	42001	MNVL_T2	167	231	64	0.47	0.65	0.18	-0.12	-0.15	0	0	0	0	0	0
8/22/2024 12:49	45502	DERR_T2	1	4	3	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
8/22/2024 12:50	15604	NSTR_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
8/22/2024 12:50	42002	MNVL_T2	1	1	0	4.4	4.3	-0.1	0.2	0.18	0	0	0	0	0	0
8/22/2024 12:50	42001	MNVL_T2	167	231	64	0.47	0.65	0.18	0	0	0	0	0	0	0	0
8/22/2024 12:51	64704	LITI_T1	0	0	0	0	0	0	0.3	0.32	1	1	0	600	600	0
8/22/2024 12:51	12807	MICK_T1	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
8/22/2024 12:51	12802	MICK_T1	0	0	0	0	0	0	-0.82	-0.86	0	0	0	0	0	0
8/22/2024 12:51	66502	SMAN_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
8/22/2024 12:51	58401	MORO_T1	0	0	0	0	0	0	-1.64	-1.54	2	2	0	1200	1200	0
8/22/2024 12:51	15604	NSTR_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
8/22/2024 12:51	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 12:51	66501	SMAN_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
8/22/2024 12:52	64101	REFR_T1	1	1	0	0.8	1.3	0.5	0	0.02	0	0	0	0	0	0
8/22/2024 12:52	13002	NBET_T2	0	1	1	0	0.1	0.1	-1.36	-1.28	2	2	0	2400	2400	0
8/22/2024 12:53	64101	REFR_T1	1	1	0	0.8	1.3	0.5	0	0.02	0	0	0	0	0	0
8/22/2024 12:54	51304	WIND_T2	1	1	0	1.6	0.8	-0.8	0	0	0	0	0	0	0	0
8/22/2024 12:54	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 12:54	58402	MORO_T1	0	0	0	0	0	0	-0.07	-0.06	2	2	0	1500	1500	0
8/22/2024 12:55	55401	SHER_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 12:55	55405	SHER_T1	2	0	-2	0.1	0	-0.1	-0.17	-0.17	0	0	0	0	0	0
8/22/2024 12:56	44801	EDAN_T2	107	66	-41	0.5	0.58	0.08	-1.46	-1.44	0	0	0	0	0	0
8/22/2024 12:56	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1200	1200	0
8/22/2024 12:56	44802	EDAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 12:56	43801	SWIL_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
8/22/2024 12:56	43802	SWIL_T1	0	0	0	0	0	0	-0.03	0	1	1	0	600	600	0
8/22/2024 12:59	54505	ENOL_T2	0	0	0	0	0	0	-1.17	-1.17	1	1	0	600	600	0
8/22/2024 12:59	67602	WARW_T2	0	0	0	0	0	0	0.28	0.3	1	1	0	300	300	0
8/22/2024 13:00	53602	DALM_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/22/2024 13:00	53601	DALM_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
8/22/2024 13:00	41502	FAIR_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
8/22/2024 13:01	26401	INOR_T1	3	1	-2	2.2	6.8	4.6	0.83	0.85	0	0	0	0	0	0
8/22/2024 13:01	61501	EPET_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
8/22/2024 13:01	53901	HALI_T2	1	1	0	0.5	0.5	0	-1.14	-1.09	0	0	0	0	0	0
8/22/2024 13:01	10801	CHHI_T1	2	2	0	0.35	0.65	0.3	-0.32	-0.23	1	1	0	900	900	0
8/22/2024 13:01	53902	HALI_T2	2	3	1	2.9	2.17	-0.73	0	0	0	0	0	0	0	0
8/22/2024 13:01	61504	EPET_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
8/22/2024 13:01	53903	HALI_T2	5	6	1	0.58	0.55	-0.03	0	0	0	0	0	0	0	0
8/22/2024 13:03	61803	EELI_T2	0	0	0	0	0	0	0.47	0.62	1	1	0	600	600	0
8/22/2024 13:03	54506	ENOL_T2	0	0	0	0	0	0	-1.15	-1.1	1	1	0	600	600	0
8/22/2024 13:04	52403	GRPA_T2	1	1	0	0.6	0.1	-0.5	0.16	0.2	0	0	0	0	0	0
8/22/2024 13:04	52402	GRPA_T2	4	7	3	0.25	0.31	0.06	0	0	0	0	0	0	0	0
8/22/2024 13:04	53903	HALI_T2	5	6	1	0.58	0.55	-0.03	0	0	0	0	0	0	0	0
8/22/2024 13:04	53902	HALI_T2	2	3	1	2.9	2.17	-0.73	0	0	0	0	0	0	0	0
8/22/2024 13:04	53901	HALI_T2	1	1	0	0.5	0.5	0	-1.14	-1.09	0	0	0	0	0	0
8/22/2024 13:05	44703	MUNC_T2	0	2	2	0	0.15	0.15	0.97	1.01	0	0	0	0	0	0
8/22/2024 13:05	53902	HALI_T2	2	3	1	2.9	2.17	-0.73	0	0	0	0	0	0	0	0
8/22/2024 13:05	53903	HALI_T2	5	6	1	0.58	0.55	-0.03	0	0	0	0	0	0	0	0
8/22/2024 13:05	53901	HALI_T2	1	1	0	0.5	0.5	0	-2.28	-2.18	0	0	0	0	0	0
8/22/2024 13:05	26803	JAFR_T1	1	1	0	1.1	1.6	0.5	-0.11	-0.11	1	1	0	900	900	0
8/22/2024 13:05	63303	GREE_T1	0	0	0	0	0	0	0	0.15	2	2	0	1800	1800	0
8/22/2024 13:05	63306	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 13:06	13502	MCMI_T1	1	4	3	0.9	0.43	-0.47	0	0	0	0	0	0	0	0
8/22/2024 13:06	13501	MCMI_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
8/22/2024 13:07	21704	SUBU_T1	0	0	0	0	0	0	-2.12	-2.16	2	2	0	2400	2400	0
8/22/2024 13:07	13005	NBET_T2	0	0	0	0	0	0	1.05	1.19	0	0	0	0	0	0
8/22/2024 13:07	21701	SUBU_T1	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
8/22/2024 13:07	13002	NBET_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 13:07	13503	MCMI_T2	1	3	2	0.2	0.57	0.37	0.04	0	0	0	0	0	0	0
8/22/2024 13:07	21705	SUBU_T1	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
8/22/2024 13:08	57201	ROSS_T1	1	0	-1	0.2	0	-0.2	-0.7	-0.67	0	0	0	0	0	0
8/22/2024 13:08	13001	NBET_T2	0	0	0	0	0	0	-0.57	-0.49	1	1	0	1200	1200	0
8/22/2024 13:08	13503	MCMI_T2	1	3	2	0.2	0.57	0.37	0.04	0	0	0	0	0	0	0
8/22/2024 13:08	13002	NBET_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 13:08	57205	ROSS_T1	3	3	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/22/2024 13:08	57203	ROSS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 13:09	57401	SPAN_T1	3	3	0	3.53	2.83	-0.7	0.6	0.54	0	0	0	0	0	0
8/22/2024 13:09	57403	SPAN_T1	2	3	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
8/22/2024 13:09	42601	DISC_T1	0	0	0	0	0	0	-0.47	-0.53	2	2	0	1800	1800	0
8/22/2024 13:10	66903	SHIL_T2	1	1	0	1.5	1	-0.5	-1.41	-1.35	0	0	0	0	0	0
8/22/2024 13:10	13704	SCHN_T2	0	1	1	0	0.3	0.3	0.19	0.18	0	0	0	0	0	0
8/22/2024 13:10	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 13:10	57401	SPAN_T1	3	3	0	3.53	2.83	-0.7	0	0	0	0	0	0	0	0
8/22/2024 13:10	55101	WERT_T1	0	0	0	0	0	0	-1.81	-2.12	4	4	0	3300	3300	0
8/22/2024 13:10	57403	SPAN_T1	2	3	1	0.7	0.4	-0.3	0.14	0.15	0	0	0	0	0	0
8/22/2024 13:10	66902	SHIL_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
8/22/2024 13:11	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 13:11	43103	SMIL_T2	11	6	-5	0.35	0.3	-0.05	-0.7	-0.69	0	0	0	0	0	0
8/22/2024 13:11	53802	MBRG_T2	0	0	0	0	0	0	1.41	1.43	0	0	0	0	0	0
8/22/2024 13:11	53801	MBRG_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/22/2024 13:11	55101	WERT_T1	0	0	0	0	0	0	-3.62	-4.23	8	8	0	6600	6600	0
8/22/2024 13:11	43105	SMIL_T2	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
8/22/2024 13:11	43102	SMIL_T2	4	5	1	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
8/22/2024 13:11	51304	WIND_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/22/2024 13:11	43101	SMIL_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
8/22/2024 13:12	12605	MACA_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
8/22/2024 13:12	12602	MACA_T1	1	2	1	0.2	0.4	0.2	-0.92	-0.88	0	0	0	0	0	0
8/22/2024 13:12	67804	WLAN_T1	1	1	0	0.4	0.3	-0.1	-0.85	-0.85	0	0	0	0	0	0
8/22/2024 13:12	12601	MACA_T1	2	2	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
8/22/2024 13:12	15204	SFAR_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/22/2024 13:12	12604	MACA_T1	3	4	1	0.57	0.65	0.08	0	0	0	0	0	0	0	0
8/22/2024 13:12	49803	UNIV_T1	2	1	-1	3.65	6.3	2.65	-0.72	-0.69	0	0	0	0	0	0
8/22/2024 13:12	67801	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 13:12	55101	WERT_T1	0	0	0	0	0	0	-5.43	-6.35	12	12	0	9900	9900	0
8/22/2024 13:12	23901	EFMO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 13:12	15203	SFAR_T2	1	1	0	0.4	0.2	-0.2	-0.25	-0.16	0	0	0	0	0	0
8/22/2024 13:12	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 13:13	53801	MBRG_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/22/2024 13:13	53803	MBRG_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
8/22/2024 13:14	60904	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 13:14	60901	DONG_T2	2	3	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/22/2024 13:14	10805	CHHI_T2	1	1	0	7.9	7.9	0	-1.31	-1.28	2	2	0	1800	1800	0
8/22/2024 13:14	29402	BELT_T1	7	4	-3	1.63	2.38	0.75	0	0	0	0	0	0	0	0
8/22/2024 13:14	60902	DONG_T2	0	0	0	0	0	0	1.1	1.1	0	0	0	0	0	0
8/22/2024 13:14	29401	BELT_T1	46	2	-44	0.22	0.3	0.08	0	0	1	0	-1	900	0	-900
8/22/2024 13:15	61504	EPET_T2	2	0	-2	0.35	0	-0.35	-0.11	-0.13	0	0	0	0	0	0
8/22/2024 13:15	61501	EPET_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
8/22/2024 13:15	43103	SMIL_T2	4	9	5	0.28	0.41	0.13	0	0	0	0	0	0	0	0
8/22/2024 13:15	43101	SMIL_T2	1	1	0	0.2	1.3	1.1	0	0	0	0	0	0	0	0
8/22/2024 13:15	43102	SMIL_T2	5	5	0	0.18	0.23	0.05	0	0	0	0	0	0	0	0
8/22/2024 13:15	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 13:15	43108	SMIL_T2	0	0	0	0	0	0	-0.88	-0.78	1	1	0	1200	1200	0
8/22/2024 13:16	24101	EHAZ_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
8/22/2024 13:16	45802	HEGI_T2	42	44	2	0.94	1.05	0.11	0.28	0.2	2	2	0	1200	1200	0
8/22/2024 13:16	24105	EHAZ_T1	4	4	0	7.03	6.9	-0.13	0	0	0	0	0	0	0	0
8/22/2024 13:16	24104	EHAZ_T1	1	1	0	0.2	0.2	0	-0.71	-0.71	1	1	0	1200	1200	0
8/22/2024 13:17	61501	EPET_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
8/22/2024 13:17	44801	EDAN_T2	59	63	4	0.54	0.59	0.05	-1.44	-1.47	0	0	0	0	0	0
8/22/2024 13:17	45802	HEGI_T2	42	44	2	0.94	1.05	0.11	0.28	0.2	2	2	0	1200	1200	0
8/22/2024 13:17	61504	EPET_T2	2	0	-2	0.35	0	-0.35	-0.11	-0.13	0	0	0	0	0	0
8/22/2024 13:17	21206	ECAR_T2	1	1	0	7.7	8	0.3	0.5	0.44	0	0	0	0	0	0
8/22/2024 13:17	21204	ECAR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/22/2024 13:18	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
8/22/2024 13:21	46101	MACJ_T2	0	0	0	0	0	0	0.21	-0.04	1	1	0	1200	1200	0
8/22/2024 13:22	16201	POFA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 13:22	65904	SAKR_T2	0	0	0	0	0	0	-1.49	-1.5	2	2	0	900	900	0
8/22/2024 13:22	16203	POFA_T2	1	7	6	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/22/2024 13:22	65901	SAKR_T2	1	1	0	7	6.5	-0.5	0	0	0	0	0	0	0	0
8/22/2024 13:23	62102	ELAN_T1	0	0	0	0	0	0	0.87	0.92	0	0	0	0	0	0
8/22/2024 13:23	62105	ELAN_T1	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
8/22/2024 13:23	16203	POFA_T2	1	7	6	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/22/2024 13:23	16201	POFA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 13:24	13601	RICH_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
8/22/2024 13:25	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 13:25	13902	SEID_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 13:25	13905	SEID_T1	3	2	-1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
8/22/2024 13:28	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 13:28	10705	CATA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 13:28	10707	CATA_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
8/22/2024 13:28	10701	CATA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/22/2024 13:29	25603	ARRO_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
8/22/2024 13:29	10805	CHHI_T2	1	1	0	7.9	7.9	0	-1.28	-1.37	2	2	0	1800	1800	0
8/22/2024 13:33	61501	EPET_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
8/22/2024 13:33	45501	DERR_T2	2	2	0	0.9	0.6	-0.3	1.05	1.2	2	2	0	1800	1800	0
8/22/2024 13:33	61504	EPET_T2	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
8/22/2024 13:33	45502	DERR_T2	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/22/2024 13:34	11903	ETEX_T1	0	1	1	0	0.2	0.2	0.74	0.76	0	0	0	0	0	0
8/22/2024 13:35	64503	LAVI_T1	0	0	0	0	0	0	0.65	1.27	1	2	1	1200	2100	900
8/22/2024 13:36	63306	GREE_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/22/2024 13:36	63304	GREE_T1	0	0	0	0	0	0	-1.33	-1.29	0	0	0	0	0	0
8/22/2024 13:37	24204	PROV_T3	1	1	0	7.1	6	-1.1	0	0	0	0	0	0	0	0
8/22/2024 13:37	53803	MBRG_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
8/22/2024 13:37	24201	PROV_T3	1	7	6	7.7	1.1	-6.6	-1.2	-1.2	1	1	0	1200	1200	0
8/22/2024 13:37	53801	MBRG_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/22/2024 13:37	65603	QVIL_T2	0	0	0	0	0	0	0.64	0.73	0	0	0	0	0	0
8/22/2024 13:38	45501	DERR_T2	2	2	0	0.9	0.6	-0.3	1.2	1.08	2	2	0	1800	1800	0
8/22/2024 13:38	45502	DERR_T2	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/22/2024 13:40	45502	DERR_T2	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/22/2024 13:40	59201	THOM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 13:40	17001	RIRO_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
8/22/2024 13:40	45501	DERR_T2	2	2	0	0.9	0.6	-0.3	1.2	1.08	2	2	0	1800	1800	0
8/22/2024 13:40	67001	STHI_T2	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
8/22/2024 13:40	59202	THOM_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
8/22/2024 13:41	13701	SCHN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 13:41	13704	SCHN_T2	1	0	-1	0.3	0	-0.3	0.21	0.06	0	0	0	0	0	0
8/22/2024 13:42	14802	TREI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 13:42	14801	TREI_T2	5	11	6	0.72	0.61	-0.11	-0.1	-0.05	0	0	0	0	0	0
8/22/2024 13:43	55102	WERT_T2	0	0	0	0	0	0	-1.68	-1.71	2	2	0	1200	1200	0
8/22/2024 13:43	67401	WAKE_T2	0	2	2	0	0.35	0.35	-0.86	-0.87	0	0	0	0	0	0
8/22/2024 13:44	64602	LEOL_T1	0	0	0	0	0	0	0.27	0.31	0	0	0	0	0	0
8/22/2024 13:46	10805	CHHI_T2	1	1	0	7.9	7.6	-0.3	-1.37	-1.34	2	2	0	1800	1800	0
8/22/2024 13:47	61701	ELIZ_T1	2	2	0	1.6	1.3	-0.3	1.71	1.49	0	0	0	0	0	0
8/22/2024 13:47	24701	FLND_T2	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
8/22/2024 13:47	24702	FLND_T2	0	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0
8/22/2024 13:49	11302	EMMA_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
8/22/2024 13:49	45501	DERR_T2	2	2	0	0.8	0.55	-0.25	2.4	2.15	4	4	0	3600	3600	0
8/22/2024 13:49	45502	DERR_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 13:49	11303	EMMA_T1	0	3	3	0	0.53	0.53	-1.4	-1.34	0	0	0	0	0	0
8/22/2024 13:49	54506	ENOL_T2	0	0	0	0	0	0	-1.08	-0.94	1	1	0	600	600	0
8/22/2024 13:49	64701	LITI_T1	0	0	0	0	0	0	0.03	0.16	0	0	0	0	0	0
8/22/2024 13:50	52404	GRPA_T2	0	0	0	0	0	0	0.71	0.68	0	0	0	0	0	0
8/22/2024 13:50	53501	EVIL_T2	2	4	2	0.85	0.8	-0.05	-0.01	-0.01	2	2	0	1200	1200	0
8/22/2024 13:50	52402	GRPA_T2	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
8/22/2024 13:50	52403	GRPA_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/22/2024 13:52	51204	MTON_T2	0	1	1	0	0	0	-0.24	-0.23	1	1	0	600	600	0
8/22/2024 13:52	51202	MTON_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/22/2024 13:52	41902	REED_T1	0	1	1	0	0.2	0.2	1.33	1.19	0	0	0	0	0	0
8/22/2024 13:52	47502	NECO_T1	1	2	1	0.2	0.2	0	0.91	0.93	0	0	0	0	0	0
8/22/2024 13:53	58401	MORO_T1	0	0	0	0	0	0	-2.61	-2.66	4	4	0	2400	2400	0
8/22/2024 13:54	58401	MORO_T1	0	0	0	0	0	0	-1.31	-1.33	2	2	0	1200	1200	0
8/22/2024 13:57	14203	EALL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 13:57	14201	EALL_T1	0	0	0	0	0	0	0.9	0.83	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/22/2024 13:58	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0.42	0.37	0	0	0	0	0	0
8/22/2024 13:58	66501	SMAN_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/22/2024 13:58	15001	BLMO_T1	3	4	1	0.67	0.7	0.03	0	0	0	0	0	0	0	0
8/22/2024 13:59	15001	BLMO_T1	3	4	1	0.67	0.7	0.03	0	0	0	0	0	0	0	0
8/22/2024 13:59	45902	AUBU_T1	3	3	0	0.33	0.7	0.37	-0.56	-0.62	1	1	0	600	600	0
8/22/2024 14:00	15001	BLMO_T1	4	4	0	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
8/22/2024 14:01	11601	CEAL_T1	1	2	1	1	0.5	-0.5	0	0	1	1	0	1200	1200	0
8/22/2024 14:02	16004	DORN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/22/2024 14:02	16001	DORN_T1	0	0	0	0	0	0	-0.61	-0.58	0	0	0	0	0	0
8/22/2024 14:02	11601	CEAL_T1	1	2	1	1	0.5	-0.5	0	0	1	1	0	1200	1200	0
8/22/2024 14:04	40601	PIGR_T1	3	2	-1	0.17	0.25	0.08	0	0	0	0	0	0	0	0
8/22/2024 14:04	40602	PIGR_T1	1	1	0	2.6	2.5	-0.1	0.28	0.25	1	1	0	600	600	0
8/22/2024 14:05	44801	EDAN_T2	59	87	28	0.54	0.5	-0.04	-1.48	-1.45	0	0	0	0	0	0
8/22/2024 14:06	12602	MACA_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/22/2024 14:06	12605	MACA_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/22/2024 14:06	12601	MACA_T1	2	1	-1	1.15	0.7	-0.45	0	0	0	0	0	0	0	0
8/22/2024 14:06	14203	EALL_T1	0	0	0	0	0	0	0.13	0.16	1	1	0	1200	1200	0
8/22/2024 14:06	12604	MACA_T1	5	3	-2	0.54	0.6	0.06	0.55	0.56	0	0	0	0	0	0
8/22/2024 14:07	22602	KIMB_T1	1	0	-1	0.1	0	-0.1	0.35	0.37	0	0	0	0	0	0
8/22/2024 14:07	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 14:07	40901	JESH_T1	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
8/22/2024 14:08	56504	ROCK_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
8/22/2024 14:08	56501	ROCK_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 14:08	56503	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 14:08	58401	MORO_T1	0	0	0	0	0	0	-1.33	-1.35	2	2	0	1200	1200	0
8/22/2024 14:10	12606	MACA_T1	0	0	0	0	0	0	0.08	0.03	1	1	0	900	900	0
8/22/2024 14:10	12605	MACA_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/22/2024 14:10	58401	MORO_T1	0	0	0	0	0	0	-1.33	-1.35	2	2	0	1200	1200	0
8/22/2024 14:10	12601	MACA_T1	2	1	-1	1.15	0.7	-0.45	0	0	0	0	0	0	0	0
8/22/2024 14:10	12602	MACA_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/22/2024 14:10	12604	MACA_T1	5	3	-2	0.54	0.6	0.06	0	0	0	0	0	0	0	0
8/22/2024 14:10	66504	SMAN_T2	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
8/22/2024 14:11	57006	WHHI_T2	0	0	0	0	0	0	2.28	2.19	1	1	0	600	600	0
8/22/2024 14:11	64101	REFR_T1	0	0	0	0	0	0	0.1	0.06	0	0	0	0	0	0
8/22/2024 14:12	56503	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 14:12	56504	ROCK_T2	0	0	0	0	0	0	0.23	0.18	0	0	0	0	0	0
8/22/2024 14:12	67103	SPRI_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
8/22/2024 14:12	57403	SPAN_T1	10	3	-7	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/22/2024 14:12	57401	SPAN_T1	3	3	0	1.83	0.73	-1.1	-0.07	-0.05	1	1	0	600	600	0
8/22/2024 14:12	56501	ROCK_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 14:14	15001	BLMO_T1	4	4	0	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
8/22/2024 14:15	10805	CHHI_T2	1	1	0	7.6	7.8	0.2	-1.45	-1.34	2	2	0	1800	1800	0
8/22/2024 14:15	44903	SCOT_T1	0	0	0	0	0	0	0.71	0.67	0	0	0	0	0	0
8/22/2024 14:15	15001	BLMO_T1	3	4	1	0.3	0.48	0.18	0	0	0	0	0	0	0	0
8/22/2024 14:16	47203	FAKO_T2	0	0	0	0	0	0	-1.38	-1.39	1	1	0	1200	1200	0
8/22/2024 14:16	15001	BLMO_T1	3	4	1	0.3	0.48	0.18	0	0	0	0	0	0	0	0
8/22/2024 14:17	22903	HARW_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 14:17	10805	CHHI_T2	1	1	0	7.6	7.8	0.2	-1.45	-1.34	2	2	0	1800	1800	0
8/22/2024 14:17	22905	HARW_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
8/22/2024 14:17	22901	HARW_T1	0	1	1	0	0.5	0.5	-0.19	0.03	1	1	0	1200	1200	0
8/22/2024 14:20	61306	EARL_T1	0	0	0	0	0	0	-1.2	-1.22	0	0	0	0	0	0
8/22/2024 14:21	65003	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 14:21	65001	NEFF_T2	0	0	0	0	0	0	-0.28	-0.14	1	1	0	1200	1200	0
8/22/2024 14:21	12704	MACU_T1	0	0	0	0	0	0	-0.78	-0.74	0	0	0	0	0	0
8/22/2024 14:21	52004	LING_T2	3	3	0	3.7	3.6	-0.1	0.44	0.45	0	0	0	0	0	0
8/22/2024 14:22	66302	MCGO_T2	265	180	-85	0.3	0.21	-0.09	-1.86	-0.9	1	1	0	600	600	0
8/22/2024 14:24	64101	REFR_T1	0	0	0	0	0	0	0.06	0.09	0	0	0	0	0	0
8/22/2024 14:24	65205	PRIN_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
8/22/2024 14:24	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/22/2024 14:25	48302	ORWI_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
8/22/2024 14:25	64101	REFR_T1	0	0	0	0	0	0	0.06	0.09	0	0	0	0	0	0
8/22/2024 14:26	64101	REFR_T1	0	0	0	0	0	0	0.11	0.17	0	0	0	0	0	0
8/22/2024 14:27	43402	BENT_T1	2	0	-2	0.4	0	-0.4	0.72	0.64	0	0	0	0	0	0
8/22/2024 14:27	64101	REFR_T1	0	0	0	0	0	0	0.11	0.17	0	0	0	0	0	0
8/22/2024 14:27	13903	SEID_T1	0	0	0	0	0	0	0.85	0.86	0	0	0	0	0	0
8/22/2024 14:27	59202	THOM_T1	3	9	6	0.3	0.41	0.11	0	0	0	0	0	0	0	0
8/22/2024 14:27	13905	SEID_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 14:27	13902	SEID_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/22/2024 14:28	59202	THOM_T1	3	9	6	0.3	0.41	0.11	0	0	0	0	0	0	0	0
8/22/2024 14:28	64101	REFR_T1	0	0	0	0	0	0	0.11	0.17	0	0	0	0	0	0
8/22/2024 14:29	64101	REFR_T1	0	0	0	0	0	0	0.06	0.09	0	0	0	0	0	0
8/22/2024 14:29	59202	THOM_T1	3	9	6	0.3	0.41	0.11	0	0	0	0	0	0	0	0
8/22/2024 14:30	44302	BEAV_T2	1	5	4	0.2	0.4	0.2	0.37	0.36	0	0	0	0	0	0
8/22/2024 14:30	46005	BERW_T1	2	2	0	0.45	0.85	0.4	0	0	0	0	0	0	0	0
8/22/2024 14:30	46001	BERW_T1	0	0	0	0	0	0	-0.8	-0.85	0	0	0	0	0	0
8/22/2024 14:30	45902	AUBU_T1	2	3	1	0.1	0.6	0.5	-0.65	-0.64	1	1	0	600	600	0
8/22/2024 14:30	44301	BEAV_T2	1	2	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
8/22/2024 14:31	10805	CHHI_T2	1	1	0	7.8	8.4	0.6	-1.34	-0.97	2	2	0	1800	1800	0
8/22/2024 14:33	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 14:33	60301	TWVA_T2	0	0	0	0	0	0	-2.87	-2.82	2	2	0	1800	1800	0
8/22/2024 14:33	46802	HEPB_T1	1	1	0	0.6	0.8	0.2	-0.1	-0.1	0	0	0	0	0	0
8/22/2024 14:33	45501	DERR_T2	2	3	1	0.8	0.5	-0.3	1.17	0.99	2	2	0	1800	1800	0
8/22/2024 14:34	45501	DERR_T2	2	3	1	0.8	0.5	-0.3	1.17	0.99	2	2	0	1800	1800	0
8/22/2024 14:34	53501	EVIL_T2	3	2	-1	0.87	0.8	-0.07	-0.01	-0.01	2	2	0	1200	1200	0
8/22/2024 14:34	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 14:35	53801	MBRG_T2	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
8/22/2024 14:35	42903	MIDD_T2	2	2	0	0.85	1	0.15	0.7	0.23	1	1	0	1200	1200	0
8/22/2024 14:35	42902	MIDD_T2	1	3	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/22/2024 14:35	53802	MBRG_T2	0	0	0	0	0	0	0.89	0.61	0	0	0	0	0	0
8/22/2024 14:36	14705	TREX_T1	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
8/22/2024 14:38	42903	MIDD_T2	2	2	0	0.85	1	0.15	0.23	1.83	1	1	0	1200	1200	0
8/22/2024 14:38	55002	NEWP_T1	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/22/2024 14:38	42902	MIDD_T2	1	3	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/22/2024 14:38	55001	NEWP_T1	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
8/22/2024 14:39	55002	NEWP_T1	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/22/2024 14:39	59202	THOM_T1	5	9	4	0.5	0.34	-0.16	0	0	0	0	0	0	0	0
8/22/2024 14:39	58401	MORO_T1	0	0	0	0	0	0	-1.3	-1.3	2	2	0	1200	1200	0
8/22/2024 14:39	55001	NEWP_T1	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
8/22/2024 14:39	43202	MVIL_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
8/22/2024 14:39	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 14:39	43201	MVIL_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/22/2024 14:40	55001	NEWP_T1	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
8/22/2024 14:40	55002	NEWP_T1	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/22/2024 14:41	59101	WALK_T2	1	0	-1	0.3	0	-0.3	1.96	1.76	1	1	0	600	600	0
8/22/2024 14:41	58401	MORO_T1	0	0	0	0	0	0	-1.3	-1.3	2	2	0	1200	1200	0
8/22/2024 14:42	59101	WALK_T2	1	0	-1	0.3	0	-0.3	3.91	3.52	2	2	0	1200	1200	0
8/22/2024 14:42	13503	MCMI_T2	1	5	4	1.2	0.4	-0.8	0.04	0	0	0	0	0	0	0
8/22/2024 14:42	42201	SHEN_T2	0	2	2	0	0.65	0.65	0.27	0.22	1	1	0	600	600	0
8/22/2024 14:43	59202	THOM_T1	5	9	4	0.5	0.34	-0.16	0	0	0	0	0	0	0	0
8/22/2024 14:43	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 14:44	29402	BELT_T1	196	113	-83	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
8/22/2024 14:44	29401	BELT_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/22/2024 14:44	59202	THOM_T1	5	9	4	0.5	0.34	-0.16	0	0	0	0	0	0	0	0
8/22/2024 14:48	29402	BELT_T1	108	79	-29	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
8/22/2024 14:48	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 14:49	44801	EDAN_T2	93	124	31	0.49	0.47	-0.02	0	0	0	0	0	0	0	0
8/22/2024 14:49	44802	EDAN_T2	0	1	1	0	0.1	0.1	-0.5	-0.4	0	0	0	0	0	0
8/22/2024 14:52	40601	PIGR_T1	3	4	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
8/22/2024 14:52	40602	PIGR_T1	1	1	0	2.4	1.4	-1	0	0	0	0	0	0	0	0
8/22/2024 14:53	40602	PIGR_T1	1	1	0	2.4	1.4	-1	0	0	0	0	0	0	0	0
8/22/2024 14:53	40601	PIGR_T1	3	4	1	0.2	0.35	0.15	0.44	0.43	0	0	0	0	0	0
8/22/2024 14:54	56501	ROCK_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
8/22/2024 14:54	41902	REED_T1	1	0	-1	0.2	0	-0.2	1.25	1.2	0	0	0	0	0	0
8/22/2024 14:54	56504	ROCK_T2	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
8/22/2024 14:55	56501	ROCK_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
8/22/2024 14:55	56504	ROCK_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
8/22/2024 14:56	56501	ROCK_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
8/22/2024 14:56	56504	ROCK_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
8/22/2024 14:57	59101	WALK_T2	0	0	0	0	0	0	1.76	1.55	1	1	0	600	600	0
8/22/2024 14:58	40201	BEGA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/22/2024 14:58	59101	WALK_T2	0	0	0	0	0	0	1.76	1.55	1	1	0	600	600	0
8/22/2024 14:59	59202	THOM_T1	8	4	-4	0.34	0.45	0.11	0	0	0	0	0	0	0	0
8/22/2024 14:59	40201	BEGA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/22/2024 15:00	14801	TREI_T2	2	8	6	0.95	0.56	-0.39	0.04	0.02	0	0	0	0	0	0
8/22/2024 15:02	46205	DANV_T2	1	0	-1	0.2	0	-0.2	-0.49	-0.45	1	1	0	1200	1200	0
8/22/2024 15:02	46206	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 15:02	53601	DALM_T2	1	1	0	1.2	0.5	-0.7	-0.35	-0.5	1	1	0	900	900	0
8/22/2024 15:02	46203	DANV_T2	2	2	0	3.35	3.4	0.05	0	0	0	0	0	0	0	0
8/22/2024 15:04	10805	CHHI_T2	1	1	0	8.4	7.9	-0.5	-0.85	-1.03	2	2	0	1800	1800	0
8/22/2024 15:04	21204	ECAR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/22/2024 15:04	21206	ECAR_T2	1	9	8	8	4.3	-3.7	0.33	0.33	0	0	0	0	0	0
8/22/2024 15:05	44801	EDAN_T2	118	110	-8	0.42	0.48	0.06	0	0	0	0	0	0	0	0
8/22/2024 15:05	44802	EDAN_T2	0	1	1	0	0.1	0.1	-0.4	-0.47	0	0	0	0	0	0
8/22/2024 15:05	55001	NEWP_T1	0	0	0	0	0	0	0.1	0.15	0	0	0	0	0	0
8/22/2024 15:05	55002	NEWP_T1	3	2	-1	0.47	0.9	0.43	0	0	0	0	0	0	0	0
8/22/2024 15:07	64203	KINZ_T1	0	1	1	0	0	0	0.61	0.62	3	3	0	2100	2100	0
8/22/2024 15:07	47002	HUGH_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
8/22/2024 15:07	47001	HUGH_T2	3	3	0	7.2	7.27	0.07	0.15	0.16	0	0	0	0	0	0
8/22/2024 15:07	64204	KINZ_T1	1	1	0	1.5	0.6	-0.9	0	0	0	0	0	0	0	0
8/22/2024 15:10	41902	REED_T1	0	1	1	0	0	0	1.2	1.18	0	0	0	0	0	0
8/22/2024 15:11	51004	NHAR_T1	1	2	1	6.5	3.35	-3.15	-0.98	-0.98	0	0	0	0	0	0
8/22/2024 15:11	51002	NHAR_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/22/2024 15:11	48302	ORWI_T2	0	0	0	0	0	0	0.15	0.19	0	0	0	0	0	0
8/22/2024 15:11	67402	WAKE_T2	0	0	0	0	0	0	0.66	0.61	1	1	0	600	600	0
8/22/2024 15:12	67402	WAKE_T2	0	0	0	0	0	0	0.66	0.61	1	1	0	600	600	0
8/22/2024 15:14	64101	REFR_T1	1	0	-1	0.1	0	-0.1	0.06	0.07	0	0	0	0	0	0
8/22/2024 15:15	21501	CEAV_T2	0	0	0	0	0	0	0.72	0.54	1	1	0	1200	1200	0
8/22/2024 15:16	44301	BEAV_T2	0	5	5	0	0.3	0.3	1.63	0.58	2	2	0	1200	1200	0
8/22/2024 15:16	44302	BEAV_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
8/22/2024 15:17	44301	BEAV_T2	0	5	5	0	0.3	0.3	0.81	0.29	1	1	0	600	600	0
8/22/2024 15:17	44302	BEAV_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
8/22/2024 15:18	46802	HEPB_T1	1	2	1	0.8	0.55	-0.25	-0.11	-0.08	0	0	0	0	0	0
8/22/2024 15:19	13503	MCMI_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/22/2024 15:21	44802	EDAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 15:21	44801	EDAN_T2	108	85	-23	0.48	0.47	-0.01	-1.31	-1.39	0	0	0	0	0	0
8/22/2024 15:21	56504	ROCK_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
8/22/2024 15:21	56501	ROCK_T2	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
8/22/2024 15:27	44302	BEAV_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
8/22/2024 15:27	44301	BEAV_T2	0	5	5	0	0.3	0.3	0.58	0.34	2	2	0	1200	1200	0
8/22/2024 15:28	20403	ASHF_T2	5	6	1	0.48	0.42	-0.06	1.33	1.34	0	0	0	0	0	0
8/22/2024 15:28	20401	ASHF_T2	4	3	-1	0.58	0.4	-0.18	0	0	0	0	0	0	0	0
8/22/2024 15:29	44302	BEAV_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
8/22/2024 15:29	44301	BEAV_T2	0	5	5	0	0.3	0.3	0.29	0.17	1	1	0	600	600	0
8/22/2024 15:32	44301	BEAV_T2	2	5	3	0.15	0.32	0.17	0.29	0.17	1	1	0	600	600	0
8/22/2024 15:32	44302	BEAV_T2	1	2	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
8/22/2024 15:32	20601	GRWO_T2	8	4	-4	0.46	0.75	0.29	1.13	1.18	0	0	0	0	0	0
8/22/2024 15:32	60101	COCA_T1	2	0	-2	0.35	0	-0.35	0.57	0.57	0	0	0	0	0	0
8/22/2024 15:34	60101	COCA_T1	2	0	-2	0.35	0	-0.35	0.57	0.57	0	0	0	0	0	0
8/22/2024 15:35	20601	GRWO_T2	8	4	-4	0.46	0.75	0.29	0	0	0	0	0	0	0	0
8/22/2024 15:35	20603	GRWO_T2	0	0	0	0	0	0	-0.49	-0.52	1	1	0	900	900	0
8/22/2024 15:37	65503	MOJO_T2	0	2	2	0	0.6	0.6	-0.56	-0.47	1	1	0	900	900	0
8/22/2024 15:37	65502	MOJO_T2	0	11	11	0	0.1	0.1	-0.64	-0.66	1	1	0	900	900	0
8/22/2024 15:37	58401	MORO_T1	0	1	1	0	0.1	0.1	-2.2	-2.25	2	2	0	1200	1200	0
8/22/2024 15:38	65502	MOJO_T2	0	11	11	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 15:38	65503	MOJO_T2	0	2	2	0	0.6	0.6	-0.56	-0.47	1	1	0	900	900	0
8/22/2024 15:39	59001	MIFF_T1	2	3	1	0.85	0.77	-0.08	0	0	0	0	0	0	0	0
8/22/2024 15:39	59002	MIFF_T1	5	5	0	0.28	0.62	0.34	0	0	0	0	0	0	0	0
8/22/2024 15:39	59003	MIFF_T1	1	1	0	0.1	0.2	0.1	-1.07	-0.92	0	0	0	0	0	0
8/22/2024 15:39	58401	MORO_T1	0	1	1	0	0.1	0.1	-2.2	-2.25	2	2	0	1200	1200	0
8/22/2024 15:39	65503	MOJO_T2	0	2	2	0	0.6	0.6	-0.56	-0.47	1	1	0	900	900	0
8/22/2024 15:39	65502	MOJO_T2	0	11	11	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 15:41	28102	TWLA_T2	18	21	3	0.59	0.55	-0.04	0.22	0.23	0	0	0	0	0	0
8/22/2024 15:41	49804	UNIV_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/22/2024 15:41	42802	SELI_T1	0	0	0	0	0	0	-1.59	-1.35	2	2	0	1800	1800	0
8/22/2024 15:41	41902	REED_T1	1	1	0	0.1	0.2	0.1	1.2	1.22	0	0	0	0	0	0
8/22/2024 15:41	49803	UNIV_T1	3	2	-1	1.83	2.4	0.57	-1.86	-1.88	0	0	0	0	0	0
8/22/2024 15:42	44301	BEAV_T2	2	5	3	0.15	0.32	0.17	0	0	0	0	0	0	0	0
8/22/2024 15:42	44302	BEAV_T2	1	2	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
8/22/2024 15:43	42802	SELI_T1	0	0	0	0	0	0	-0.79	-0.68	1	1	0	900	900	0
8/22/2024 15:44	44302	BEAV_T2	1	2	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
8/22/2024 15:44	49804	UNIV_T1	1	1	0	0.1	0.2	0.1	1.18	1.02	0	0	0	0	0	0
8/22/2024 15:44	49803	UNIV_T1	3	2	-1	1.83	2.4	0.57	0	0	0	0	0	0	0	0
8/22/2024 15:44	44301	BEAV_T2	2	5	3	0.15	0.32	0.17	0.17	0.07	1	1	0	600	600	0
8/22/2024 15:45	44302	BEAV_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
8/22/2024 15:45	11103	EGYP_T1	0	0	0	0	0	0	1.04	1	0	0	0	0	0	0
8/22/2024 15:45	42802	SELI_T1	0	0	0	0	0	0	-0.79	-0.68	1	1	0	900	900	0
8/22/2024 15:45	49804	UNIV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 15:45	44301	BEAV_T2	4	3	-1	0.33	0.37	0.04	0.17	0.07	1	1	0	600	600	0
8/22/2024 15:45	49803	UNIV_T1	2	2	0	2.4	2.4	0	-1.86	-1.88	0	0	0	0	0	0
8/22/2024 15:49	63602	LETO_T1	0	1	1	0	0.3	0.3	0	0.07	0	0	0	0	0	0
8/22/2024 15:49	46401	FLEM_T2	1	1	0	1.8	1.6	-0.2	-0.27	-0.28	0	0	0	0	0	0
8/22/2024 15:49	62607	ENGL_T1	0	0	0	0	0	0	-0.82	-0.81	1	1	0	300	300	0
8/22/2024 15:50	44801	EDAN_T2	76	60	-16	0.46	0.51	0.05	-1.39	-1.4	0	0	0	0	0	0
8/22/2024 15:53	63601	LETO_T1	0	0	0	0	0	0	0.6	0.56	2	2	0	2100	2100	0
8/22/2024 15:53	63602	LETO_T1	0	1	1	0	0.3	0.3	0.07	0.06	0	0	0	0	0	0
8/22/2024 15:55	40601	PIGR_T1	2	3	1	0.35	0.27	-0.08	0	0	0	0	0	0	0	0
8/22/2024 15:55	40602	PIGR_T1	1	2	1	1.4	1.4	0	0	0	0	0	0	0	0	0
8/22/2024 15:56	53501	EVIL_T2	2	2	0	0.65	0.95	0.3	-0.01	-0.01	1	1	0	600	600	0
8/22/2024 15:58	40601	PIGR_T1	2	3	1	0.35	0.27	-0.08	0	0	0	0	0	0	0	0
8/22/2024 15:58	40602	PIGR_T1	1	2	1	1.4	1.4	0	-0.23	-0.24	1	1	0	600	600	0
8/22/2024 16:00	42802	SELI_T1	0	0	0	0	0	0	-0.68	-0.74	1	1	0	900	900	0
8/22/2024 16:01	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 16:06	40901	JESH_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
8/22/2024 16:06	40902	JESH_T1	0	0	0	0	0	0	-1.02	-1.03	1	1	0	600	600	0
8/22/2024 16:07	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 16:07	40901	JESH_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
8/22/2024 16:07	60504	NMAN_T2	2	3	1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
8/22/2024 16:07	40902	JESH_T1	0	0	0	0	0	0	-1.02	-1.03	1	1	0	600	600	0
8/22/2024 16:08	60502	NMAN_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
8/22/2024 16:08	60504	NMAN_T2	2	3	1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
8/22/2024 16:09	67103	SPRI_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
8/22/2024 16:12	45602	WOOL_T1	0	0	0	0	0	0	0.72	0.75	0	0	0	0	0	0
8/22/2024 16:12	42601	TUSC_T1	1	61	60	0	0.2	0.2	-1.32	-1.44	2	2	0	1800	1800	0
8/22/2024 16:14	44301	BEAV_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
8/22/2024 16:14	67805	WLAN_T1	0	0	0	0	0	0	-1.09	-0.97	0	0	0	0	0	0
8/22/2024 16:14	44302	BEAV_T2	0	2	2	0	0.2	0.2	0.35	0.37	0	0	0	0	0	0
8/22/2024 16:15	45501	DERR_T2	0	0	0	0	0	0	0.73	0.67	2	2	0	1800	1800	0
8/22/2024 16:16	17805	GILB_T2	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
8/22/2024 16:16	23901	EFMO_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
8/22/2024 16:16	45501	DERR_T2	0	0	0	0	0	0	0.73	0.67	2	2	0	1800	1800	0
8/22/2024 16:20	45501	DERR_T2	0	0	0	0	0	0	0.73	0.67	2	2	0	1800	1800	0
8/22/2024 16:23	41902	REED_T1	1	1	0	0.7	0.8	0.1	1.25	1.28	0	0	0	0	0	0
8/22/2024 16:23	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 16:27	60701	BREC_T1	0	0	0	0	0	0	-0.62	-0.61	2	2	0	1200	1200	0
8/22/2024 16:28	60701	BREC_T1	0	0	0	0	0	0	-0.62	-0.61	2	2	0	1200	1200	0
8/22/2024 16:29	60701	BREC_T1	0	0	0	0	0	0	-0.62	-0.61	2	2	0	1200	1200	0
8/22/2024 16:31	20401	ASHF_T2	11	13	2	0.55	0.49	-0.06	0	0	0	0	0	0	0	0
8/22/2024 16:31	20402	ASHF_T2	6	6	0	0.23	0.25	0.02	0	0	0	0	0	0	0	0
8/22/2024 16:31	20403	ASHF_T2	0	0	0	0	0	0	0.74	0.6	0	0	0	0	0	0
8/22/2024 16:31	10602	BLGL_T2	0	1	1	0	0.7	0.7	0.39	0.32	0	0	0	0	0	0
8/22/2024 16:31	60701	BREC_T1	0	0	0	0	0	0	-0.62	-0.61	2	2	0	1200	1200	0
8/22/2024 16:32	60701	BREC_T1	0	0	0	0	0	0	-1.23	-1.22	4	4	0	2400	2400	0
8/22/2024 16:33	21701	SUBU_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
8/22/2024 16:33	21703	SUBU_T1	0	0	0	0	0	0	0.85	0.83	0	0	0	0	0	0
8/22/2024 16:33	60701	BREC_T1	0	0	0	0	0	0	-1.23	-1.22	4	4	0	2400	2400	0
8/22/2024 16:33	21705	SUBU_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
8/22/2024 16:35	46101	MACI_T2	0	0	0	0	0	0	-0.32	0.78	1	0	-1	1200	0	-1200
8/22/2024 16:36	42601	TUSC_T1	61	53	-8	0.2	0.16	-0.04	-1.4	-1.34	2	2	0	1800	1800	0
8/22/2024 16:36	42001	MNVL_T2	156	215	59	0.48	0.54	0.06	0	0	0	0	0	0	0	0
8/22/2024 16:36	42002	MNVL_T2	1	1	0	3.1	2.3	-0.8	-0.47	-0.46	0	0	0	0	0	0
8/22/2024 16:37	47401	PENS_T1	0	2	2	0	0.35	0.35	0.52	0.65	0	0	0	0	0	0
8/22/2024 16:37	47402	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 16:37	47403	PENS_T1	3	1	-2	0.87	0.6	-0.27	0	0	0	0	0	0	0	0
8/22/2024 16:38	65802	RTWN_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
8/22/2024 16:38	24202	PROV_T4	0	1	1	0	2.3	2.3	-0.26	-0.28	1	1	0	1200	1200	0
8/22/2024 16:38	65803	RTWN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/22/2024 16:39	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 16:39	41902	REED_T1	1	1	0	0.8	0.9	0.1	1.28	1.32	0	0	0	0	0	0
8/22/2024 16:41	55101	WERT_T1	0	0	0	0	0	0	-1.84	-1.88	4	4	0	3300	3300	0
8/22/2024 16:45	67803	WLAN_T1	0	0	0	0	0	0	-0.58	-0.55	0	0	0	0	0	0
8/22/2024 16:46	45501	DERR_T2	0	0	0	0	0	0	0.66	0.61	2	2	0	1800	1800	0
8/22/2024 16:47	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 16:47	62105	ELAN_T1	0	0	0	0	0	0	0.77	0.74	0	0	0	0	0	0
8/22/2024 16:51	20601	GRWO_T2	5	3	-2	0.6	1.3	0.7	0	0	0	0	0	0	0	0
8/22/2024 16:51	20603	GRWO_T2	0	0	0	0	0	0	-0.54	-0.58	1	1	0	900	900	0
8/22/2024 16:52	64201	KINZ_T1	1	0	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/22/2024 16:52	64204	KINZ_T1	3	2	-1	0.77	0.55	-0.22	0	0	0	0	0	0	0	0
8/22/2024 16:52	64202	KINZ_T1	2	3	1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
8/22/2024 16:52	64203	KINZ_T1	0	0	0	0	0	0	0.41	0.01	1	1	0	600	600	0
8/22/2024 16:54	64201	KINZ_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/22/2024 16:54	64203	KINZ_T1	0	0	0	0	0	0	0.41	0.01	1	1	0	600	600	0
8/22/2024 16:54	64204	KINZ_T1	3	2	-1	0.77	0.55	-0.22	0	0	0	0	0	0	0	0
8/22/2024 16:54	64202	KINZ_T1	2	3	1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
8/22/2024 16:55	12701	MACU_T1	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
8/22/2024 16:57	55101	WERT_T1	0	0	0	0	0	0	-1.88	-2.11	4	4	0	3300	3300	0
8/22/2024 17:01	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/22/2024 17:03	44801	EDAN_T2	51	51	0	0.38	0.4	0.02	-1.43	-1.42	0	0	0	0	0	0
8/22/2024 17:05	12701	MACU_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
8/22/2024 17:05	26402	INOR_T1	0	0	0	0	0	0	-1.75	-1.86	1	1	0	600	600	0
8/22/2024 17:05	26401	INOR_T1	1	1	0	8.3	8.3	0	0	0	0	0	0	0	0	0
8/22/2024 17:08	64202	KINZ_T1	3	2	-1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
8/22/2024 17:08	64203	KINZ_T1	0	0	0	0	0	0	0.01	-0.02	1	1	0	600	600	0
8/22/2024 17:08	64204	KINZ_T1	2	1	-1	0.55	0.7	0.15	0	0	0	0	0	0	0	0
8/22/2024 17:08	64201	KINZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/22/2024 17:10	28102	TWLA_T2	9	5	-4	0.34	0.2	-0.14	0.23	0.22	0	0	0	0	0	0
8/22/2024 17:10	64201	KINZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/22/2024 17:10	64202	KINZ_T1	3	2	-1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
8/22/2024 17:10	64204	KINZ_T1	2	1	-1	0.55	0.7	0.15	0	0	0	0	0	0	0	0
8/22/2024 17:10	64203	KINZ_T1	0	0	0	0	0	0	0.01	-0.04	2	2	0	1200	1200	0
8/22/2024 17:14	64101	REFR_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
8/22/2024 17:16	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 17:16	10705	CATA_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
8/22/2024 17:17	60701	BREC_T1	0	0	0	0	0	0	-1.25	-1.23	4	4	0	2400	2400	0
8/22/2024 17:19	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 17:19	10705	CATA_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
8/22/2024 17:22	64902	MILL_T2	0	0	0	0	0	0	0.01	-0.91	0	1	1	0	900	900
8/22/2024 17:24	58202	NEWV_T1	0	0	0	0	0	0	-0.21	0.7	0	0	0	0	0	0
8/22/2024 17:31	63306	GREE_T1	0	0	0	0	0	0	-1.8	-1.78	1	1	0	900	900	0
8/22/2024 17:31	63305	GREE_T1	7	8	1	0.21	0.34	0.13	0	0	0	0	0	0	0	0
8/22/2024 17:34	46101	MACI_T2	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
8/22/2024 17:36	63404	HONY_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 17:36	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/22/2024 17:36	63305	GREE_T1	7	8	1	0.21	0.34	0.13	0	0	0	0	0	0	0	0
8/22/2024 17:36	63401	HONY_T1	0	0	0	0	0	0	0.18	0.2	1	1	0	600	600	0
8/22/2024 17:36	63306	GREE_T1	0	0	0	0	0	0	-1.78	-1.79	1	1	0	900	900	0
8/22/2024 17:37	14601	SWHI_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
8/22/2024 17:38	12505	MITR_T2	0	0	0	0	0	0	0.16	0.07	0	0	0	0	0	0
8/22/2024 17:38	12502	MITR_T2	2	2	0	4.9	6.75	1.85	0	0	0	0	0	0	0	0
8/22/2024 17:39	65604	QVIL_T2	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
8/22/2024 17:43	24801	VALM_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
8/22/2024 17:46	24702	FLND_T2	0	0	0	0	0	0	0.58	0.29	1	1	0	1200	1200	0
8/22/2024 17:50	42903	MIDD_T2	2	2	0	1.35	1.15	-0.2	0.3	0.29	0	0	0	0	0	0
8/22/2024 17:52	64802	MONE_T2	529	0	-529	5.42	0	-5.42	0.12	0.14	0	0	0	0	0	0
8/22/2024 18:01	54504	ENOL_T2	0	0	0	0	0	0	-1.41	-1.43	1	1	0	600	600	0
8/22/2024 18:03	12002	HATF_T1	0	0	0	0	0	0	-1	-0.99	1	1	0	1200	1200	0
8/22/2024 18:06	44201	POIN_T1	0	0	0	0	0	0	-1.35	-1.32	2	2	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/22/2024 18:09	65503	MOJO_T2	0	36	36	0	0.12	0.12	0	0	0	0	0	0	0	0
8/22/2024 18:09	65502	MOJO_T2	20	116	96	0.11	0.13	0.02	0	0	0	0	0	0	0	0
8/22/2024 18:09	12801	MICK_T1	0	0	0	0	0	0	-0.7	-0.77	1	1	0	600	600	0
8/22/2024 18:09	12802	MICK_T1	0	0	0	0	0	0	-1.03	-1.01	0	0	0	0	0	0
8/22/2024 18:09	12807	MICK_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/22/2024 18:10	12807	MICK_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/22/2024 18:10	12801	MICK_T1	0	0	0	0	0	0	-0.7	-0.77	1	1	0	600	600	0
8/22/2024 18:11	65502	MOJO_T2	20	116	96	0.11	0.13	0.02	-1.04	-1.09	1	1	0	900	900	0
8/22/2024 18:11	65503	MOJO_T2	0	36	36	0	0.12	0.12	0	0	0	0	0	0	0	0
8/22/2024 18:11	52004	LING_T2	2	2	0	4.75	4.95	0.2	0	0	0	0	0	0	0	0
8/22/2024 18:11	52002	LING_T2	0	0	0	0	0	0	0.96	0.97	0	0	0	0	0	0
8/22/2024 18:16	67502	WEWI_T2	0	0	0	0	0	0	-1.99	-1.96	2	2	0	1800	1800	0
8/22/2024 18:16	67503	WEWI_T2	1	1	0	6.3	6.9	0.6	0	0	0	0	0	0	0	0
8/22/2024 18:17	10702	CATA_T2	1	1	0	0.3	0.4	0.1	-0.66	-0.66	0	0	0	0	0	0
8/22/2024 18:18	10702	CATA_T2	1	1	0	0.3	0.4	0.1	-0.66	-0.66	0	0	0	0	0	0
8/22/2024 18:19	62604	ENGL_T1	0	0	0	0	0	0	-0.51	-0.53	1	1	0	600	600	0
8/22/2024 18:24	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 18:29	43108	SMIL_T2	0	0	0	0	0	0	-1.03	-0.98	1	1	0	1200	1200	0
8/22/2024 18:29	43103	SMIL_T2	1	4	3	0.1	0.15	0.05	0	0	0	0	0	0	0	0
8/22/2024 18:29	43102	SMIL_T2	1	6	5	0.2	0.22	0.02	0	0	0	0	0	0	0	0
8/22/2024 18:34	24702	FLND_T2	0	0	0	0	0	0	0.39	0.41	1	1	0	1200	1200	0
8/22/2024 18:36	63201	MGTN_T2	0	3	3	0	0.1	0.1	-0.44	-0.42	2	2	0	1800	1800	0
8/22/2024 18:39	43103	SMIL_T2	3	4	1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
8/22/2024 18:39	43102	SMIL_T2	5	6	1	0.12	0.27	0.15	-0.64	-0.64	1	1	0	600	600	0
8/22/2024 18:41	43103	SMIL_T2	3	4	1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
8/22/2024 18:41	43106	SMIL_T2	0	0	0	0	0	0	-1.39	-1.45	2	2	0	2400	2400	0
8/22/2024 18:41	43102	SMIL_T2	5	6	1	0.12	0.27	0.15	-1.28	-1.29	2	2	0	1200	1200	0
8/22/2024 18:44	43103	SMIL_T2	3	4	1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
8/22/2024 18:44	43102	SMIL_T2	5	6	1	0.12	0.27	0.15	-0.64	-0.64	1	1	0	600	600	0
8/22/2024 18:52	46101	MACI_T2	0	0	0	0	0	0	0.71	0.72	0	0	0	0	0	0
8/22/2024 18:58	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 18:58	14601	SWHI_T1	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
8/22/2024 18:58	40502	CRES_T2	12	0	-12	0.33	0	-0.33	-0.08	-0.07	0	0	0	0	0	0
8/22/2024 19:01	40504	CRES_T1	0	0	0	0	0	0	-1.49	-1.52	0	0	0	0	0	0
8/22/2024 19:03	11901	ETEX_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
8/22/2024 19:05	63501	HEID_TBK1-2	55	58	3	1.35	1.24	-0.11	-0.11	-0.17	1	1	0	900	900	0
8/22/2024 19:18	54505	ENOL_T2	0	0	0	0	0	0	-1	-1.01	1	1	0	600	600	0
8/22/2024 20:20	63501	HEID_TBK1-2	55	55	0	2.29	2.1	-0.19	0.67	0.63	0	0	0	0	0	0
8/22/2024 20:22	59201	THOM_T1	5	10	5	0.14	0.18	0.04	0	0	0	0	0	0	0	0
8/22/2024 20:22	59202	THOM_T1	15	16	1	0.13	0.18	0.05	0	0	0	0	0	0	0	0
8/22/2024 20:36	23401	HONE_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
8/22/2024 20:42	55101	WERT_T1	0	0	0	0	0	0	-1.96	-2.02	3	3	0	2400	2400	0
8/22/2024 21:07	45902	AUBU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:07	45901	AUBU_T1	0	0	0	0	0	0	1.84	1.84	0	0	0	0	0	0
8/22/2024 21:22	59301	MCAL_T1	2	2	0	1.2	1.3	0.1	-1.26	-1.28	0	0	0	0	0	0
8/22/2024 21:22	59302	MCAL_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
8/22/2024 21:32	25603	ARRO_T1	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
8/22/2024 21:33	64305	LINC_T1	0	0	0	0	0	0	-0.48	-0.45	0	0	0	0	0	0
8/22/2024 21:40	57106	SPHI_T2	3	3	0	1.57	1.67	0.1	0	0	0	0	0	0	0	0
8/22/2024 21:40	57104	SPHI_T2	0	0	0	0	0	0	-0.85	-0.9	0	0	0	0	0	0
8/22/2024 21:40	10602	BLGL_T2	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
8/22/2024 21:40	57101	SPHI_T2	6	6	0	0.43	0.6	0.17	0	0	0	0	0	0	0	0
8/22/2024 21:43	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:43	62604	ENGL_T1	0	0	0	0	0	0	-0.86	-0.8	1	1	0	600	600	0
8/22/2024 21:43	24801	VALM_T1	0	0	0	0	0	0	-0.3	-0.36	0	0	0	0	0	0
8/22/2024 21:44	23203	HIRU_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 21:44	23202	HIRU_T2	3	0	-3	0.1	0	-0.1	0.09	0.1	0	0	0	0	0	0
8/22/2024 21:44	64901	MILL_T1	20	42	22	0.16	0.21	0.05	0	0	0	0	0	0	0	0
8/22/2024 21:44	64904	MILL_T1	1	9	8	0.2	0.14	-0.06	-0.17	-0.23	0	0	0	0	0	0
8/22/2024 21:44	57106	SPHI_T2	3	3	0	1.57	1.67	0.1	0	0	0	0	0	0	0	0
8/22/2024 21:44	23201	HIRU_T2	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
8/22/2024 21:44	57101	SPHI_T2	6	6	0	0.43	0.6	0.17	0	0	0	0	0	0	0	0
8/22/2024 21:44	57104	SPHI_T2	0	0	0	0	0	0	-0.85	-0.9	0	0	0	0	0	0
8/22/2024 21:45	14801	TREI_T2	5	8	3	0.5	0.4	-0.1	-0.38	-0.49	0	0	0	0	0	0
8/22/2024 21:46	65603	QVIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
8/22/2024 21:46	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:46	65602	QVIL_T2	0	40	40	0	0.35	0.35	0	0	0	0	0	0	0	0
8/22/2024 21:46	65601	QVIL_T2	0	106	106	0	0.22	0.22	0	0	0	0	0	0	0	0
8/22/2024 21:46	41002	LAUR_T2	1	5	4	2.1	0.64	-1.46	-0.9	-0.91	0	0	0	0	0	0
8/22/2024 21:46	41001	LAUR_T2	0	20	20	0	0.11	0.11	0	0	0	0	0	0	0	0
8/22/2024 21:46	65604	QVIL_T2	0	3	3	0	0.2	0.2	0.39	0.36	0	0	0	0	0	0
8/22/2024 21:47	63602	LETO_T1	10	141	131	0.1	0.34	0.24	-0.26	-0.25	0	0	0	0	0	0
8/22/2024 21:47	26401	INOR_T1	1	1	0	7.6	7.9	0.3	0.43	0.41	0	0	0	0	0	0
8/22/2024 21:47	15703	TANN_T2	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
8/22/2024 21:47	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
8/22/2024 21:47	16402	MOPO_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
8/22/2024 21:47	63601	LETO_T1	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
8/22/2024 21:48	60701	BREC_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 21:48	16101	BING_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
8/22/2024 21:48	28102	TWLA_T2	13	15	2	0.45	0.61	0.16	0.2	0.2	0	0	0	0	0	0
8/22/2024 21:49	63403	HONY_T2	0	0	0	0	0	0	-0.51	-0.53	1	1	0	600	600	0
8/22/2024 21:49	60701	BREC_T1	0	2	2	0	0.1	0.1	-0.45	-0.46	1	1	0	600	600	0
8/22/2024 21:49	29401	BELT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:49	29402	BELT_T1	107	249	142	0.76	0.84	0.08	0	0	0	0	0	0	0	0
8/22/2024 21:49	63402	HONY_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/22/2024 21:49	11901	ETEX_T2	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
8/22/2024 21:49	67603	WARW_T1	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
8/22/2024 21:49	67605	WARW_T1	19	23	4	0.47	0.52	0.05	0	0	0	0	0	0	0	0
8/22/2024 21:49	16102	BING_T2	0	0	0	0	0	0	0.93	0.96	0	0	0	0	0	0
8/22/2024 21:49	64902	MILL_T2	0	0	0	0	0	0	-0.51	-0.53	1	1	0	900	900	0
8/22/2024 21:50	46101	MACI_T2	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
8/22/2024 21:50	20601	GRWO_T2	0	0	0	0	0	0	0.99	1	0	0	0	0	0	0
8/22/2024 21:50	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/22/2024 21:50	25402	LAHA_T2	0	0	0	0	0	0	-0.89	-0.89	0	0	0	0	0	0
8/22/2024 21:50	13002	NBET_T2	0	0	0	0	0	0	-1.59	-1.61	2	2	0	2400	2400	0
8/22/2024 21:50	12605	MACA_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
8/22/2024 21:50	42601	TUSC_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	600	600	0
8/22/2024 21:51	47401	PENS_T1	0	0	0	0	0	0	-0.18	-0.13	0	0	0	0	0	0
8/22/2024 21:51	13501	MCMI_T1	0	1	1	0	0	0	0.16	0.18	0	0	0	0	0	0
8/22/2024 21:51	15604	NSTR_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
8/22/2024 21:51	12602	MACA_T1	0	0	0	0	0	0	-1.47	-1.56	0	0	0	0	0	0
8/22/2024 21:51	42601	TUSC_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	600	600	0
8/22/2024 21:51	12001	HATF_T1	0	0	0	0	0	0	0.92	1.15	1	1	0	600	600	0
8/22/2024 21:51	20401	ASHF_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
8/22/2024 21:51	42002	MNVL_T2	1	1	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
8/22/2024 21:51	23203	HIRU_T2	0	0	0	0	0	0	0.12	0.07	0	0	0	0	0	0
8/22/2024 21:51	42001	MNVL_T2	240	276	36	0.72	1.01	0.29	-0.15	-0.21	0	0	0	0	0	0
8/22/2024 21:51	20403	ASHF_T2	0	1	1	0	0	0	0.18	0.16	0	0	0	0	0	0
8/22/2024 21:51	12004	HATF_T1	7	0	-7	0.11	0	-0.11	0	0	0	0	0	0	0	0
8/22/2024 21:52	11903	ETEX_T1	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
8/22/2024 21:52	45901	AUBU_T1	0	0	0	0	0	0	1.87	1.84	0	0	0	0	0	0
8/22/2024 21:52	17805	GILB_T2	0	0	0	0	0	0	-0.09	-0.15	0	0	0	0	0	0
8/22/2024 21:52	13905	SEID_T1	0	0	0	0	0	0	-0.93	-0.96	1	1	0	1200	1200	0
8/22/2024 21:52	65502	MOJO_T2	281	3	-278	0.29	0.1	-0.19	0	0	0	0	0	0	0	0
8/22/2024 21:52	62105	ELAN_T1	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
8/22/2024 21:52	12606	MACA_T1	0	0	0	0	0	0	-0.19	-0.24	1	1	0	900	900	0
8/22/2024 21:52	52002	LING_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/22/2024 21:52	45902	AUBU_T1	9	11	2	0.13	0.18	0.05	0	0	0	0	0	0	0	0
8/22/2024 21:52	12807	MICK_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/22/2024 21:52	23001	SAJO_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
8/22/2024 21:52	65001	NEFF_T2	0	0	0	0	0	0	-0.76	-0.89	1	1	0	1200	1200	0
8/22/2024 21:52	15203	SFAR_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 21:52	65503	MOJO_T2	93	0	-93	0.14	0	-0.14	-0.2	-0.24	0	0	0	0	0	0
8/22/2024 21:52	52006	LING_T2	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
8/22/2024 21:52	65003	NEFF_T2	4	4	0	0.18	0.2	0.02	0	0	0	0	0	0	0	0
8/22/2024 21:52	11103	EGYP_T1	0	1	1	0	0	0	0.76	0.7	0	0	0	0	0	0
8/22/2024 21:52	63602	LETO_T1	10	141	131	0.1	0.34	0.24	-0.25	-0.33	0	0	0	0	0	0
8/22/2024 21:52	29402	BELT_T1	107	249	142	0.76	0.84	0.08	0	0	0	0	0	0	0	0
8/22/2024 21:52	12802	MICK_T1	0	0	0	0	0	0	-1.19	-1.22	0	0	0	0	0	0
8/22/2024 21:52	66901	SHIL_T2	97	9	-88	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
8/22/2024 21:52	66902	SHIL_T2	35	0	-35	0.14	0	-0.14	0	0	0	0	0	0	0	0
8/22/2024 21:52	62102	ELAN_T1	0	0	0	0	0	0	0.86	0.82	0	0	0	0	0	0
8/22/2024 21:52	12701	MACU_T1	0	4	4	0	0.5	0.5	0	0	0	0	0	0	0	0
8/22/2024 21:52	21206	ECAR_T2	1	1	0	8.3	8.2	-0.1	-0.05	-0.13	0	0	0	0	0	0
8/22/2024 21:52	67605	WARW_T1	19	23	4	0.47	0.52	0.05	-1.11	-1.1	0	0	0	0	0	0
8/22/2024 21:52	54505	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/22/2024 21:52	63601	LETO_T1	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
8/22/2024 21:52	11104	EGYP_T1	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
8/22/2024 21:52	12704	MACU_T1	0	0	0	0	0	0	-0.87	-0.83	0	0	0	0	0	0
8/22/2024 21:52	60701	BREC_T1	0	2	2	0	0.1	0.1	-0.46	-0.5	1	1	0	600	600	0
8/22/2024 21:52	60101	COCA_T1	0	0	0	0	0	0	1.06	0.93	0	0	0	0	0	0
8/22/2024 21:52	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.74	0	0	0	0	0	0
8/22/2024 21:52	15204	SFAR_T2	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
8/22/2024 21:52	66903	SHIL_T2	0	0	0	0	0	0	-0.81	-0.88	0	0	0	0	0	0
8/22/2024 21:52	10805	CHHI_T2	1	1	0	7.9	7.5	-0.4	-1.01	-1.04	1	1	0	600	600	0
8/22/2024 21:52	12801	MICK_T1	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
8/22/2024 21:52	54502	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 21:52	52004	LING_T2	2	2	0	5.95	6.25	0.3	0.2	0.18	0	0	0	0	0	0
8/22/2024 21:52	21204	ECAR_T2	1	2	1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/22/2024 21:52	29401	BELT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:52	67203	TEHI_T1	0	0	0	0	0	0	2.46	2.3	2	2	0	1500	1500	0
8/22/2024 21:52	54506	ENOL_T2	0	0	0	0	0	0	-0.83	-0.91	1	1	0	600	600	0
8/22/2024 21:53	13503	MCMI_T2	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/22/2024 21:53	14801	TREI_T2	5	8	3	0.5	0.4	-0.1	-0.49	-0.53	0	0	0	0	0	0
8/22/2024 21:53	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:53	67502	WEWI_T2	1	5	4	0.1	0.1	0	-0.23	-0.22	0	0	0	0	0	0
8/22/2024 21:53	23203	HIRU_T2	0	0	0	0	0	0	0.12	0.07	0	0	0	0	0	0
8/22/2024 21:53	65206	PRIN_T4	7	1	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 21:53	45902	AUBU_T1	9	11	2	0.13	0.18	0.05	-1.09	-1.05	1	1	0	600	600	0
8/22/2024 21:53	11507	FREE_T2	1	1	0	0.2	0	-0.2	0.68	1.2	0	0	0	0	0	0
8/22/2024 21:53	14204	EALL_T2	0	0	0	0	0	0	0.44	0.54	0	0	0	0	0	0
8/22/2024 21:53	53601	DALM_T2	1	1	0	0.6	0.8	0.2	0.07	0.08	0	0	0	0	0	0
8/22/2024 21:53	67605	WARW_T1	19	23	4	0.47	0.52	0.05	-1.11	-1.1	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/22/2024 21:53	57003	WHIII_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/22/2024 21:53	67503	WEWI_T2	1	1	0	8.5	8.7	0.2	-0.02	0.14	0	0	0	0	0	0
8/22/2024 21:53	13001	NBET_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
8/22/2024 21:53	42903	MIDD_T2	2	2	0	0.15	0.8	0.65	-1.24	-1.29	1	1	0	1200	1200	0
8/22/2024 21:53	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:53	63401	HONV_T1	0	0	0	0	0	0	0.01	-0.14	1	1	0	600	600	0
8/22/2024 21:53	24702	FLND_T2	0	0	0	0	0	0	1.63	1.56	0	0	0	0	0	0
8/22/2024 21:53	20401	ASHF_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
8/22/2024 21:53	63501	HEID_TBK1-2	55	56	1	1.43	1.49	0.06	0.46	0.46	0	0	0	0	0	0
8/22/2024 21:53	20601	GRWO_T2	0	0	0	0	0	0	1	0.97	0	0	0	0	0	0
8/22/2024 21:53	60501	NMAN_T2	12	10	-2	0.18	0.11	-0.07	0	0	0	0	0	0	0	0
8/22/2024 21:53	20403	ASHF_T2	0	1	1	0	0	0	0.18	0.16	0	0	0	0	0	0
8/22/2024 21:53	65207	PRIN_T4	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/22/2024 21:53	28702	HAML_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
8/22/2024 21:53	41702	LOGA_T2	82	107	25	0.29	0.38	0.09	0	0	0	0	0	0	0	0
8/22/2024 21:53	57006	WHII_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/22/2024 21:53	60101	COCA_T1	0	0	0	0	0	0	0.35	0.31	0	0	0	0	0	0
8/22/2024 21:53	57002	WHII_T2	0	0	0	0	0	0	-1.42	-1.42	1	1	0	1200	1200	0
8/22/2024 21:53	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
8/22/2024 21:53	12605	MACA_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
8/22/2024 21:53	14202	EALL_T2	2	3	1	0.3	0.43	0.13	0	0	0	0	0	0	0	0
8/22/2024 21:53	10702	CATA_T2	0	0	0	0	0	0	-0.59	-0.51	0	0	0	0	0	0
8/22/2024 21:54	49803	UNIV_T1	1	1	0	5.2	4.8	-0.4	-2.25	-2.26	0	0	0	0	0	0
8/22/2024 21:54	61504	EPET_T2	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
8/22/2024 21:54	57401	SPAN_T1	2	7	5	0.85	0.4	-0.45	-0.57	-0.85	1	1	0	600	600	0
8/22/2024 21:54	65602	QVIL_T2	0	40	40	0	0.35	0.35	0	0	0	0	0	0	0	0
8/22/2024 21:54	42601	TUSC_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	600	600	0
8/22/2024 21:54	13501	MCMI_T1	0	1	1	0	0	0	0.16	0.18	0	0	0	0	0	0
8/22/2024 21:54	66504	SMAN_T2	0	0	0	0	0	0	-0.36	-0.57	0	0	0	0	0	0
8/22/2024 21:54	60101	COCA_T1	0	0	0	0	0	0	0.35	0.31	0	0	0	0	0	0
8/22/2024 21:54	60102	COCA_T1	0	0	0	0	0	0	0.06	0.04	2	2	0	1200	1200	0
8/22/2024 21:54	14404	SSLA_T1	5	6	1	2.4	2.05	-0.35	0	0	0	0	0	0	0	0
8/22/2024 21:54	14403	SSLA_T1	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
8/22/2024 21:54	45902	AUBU_T1	9	11	2	0.13	0.18	0.05	-1.09	-1.05	1	1	0	600	600	0
8/22/2024 21:54	66901	SHII_T2	97	9	-88	0.13	0.1	-0.03	-1.6	-1.64	1	1	0	1200	1200	0
8/22/2024 21:54	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:54	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 21:54	66902	SHII_T2	35	0	-35	0.14	0	-0.14	0	0	0	0	0	0	0	0
8/22/2024 21:54	29402	BELT_T1	107	249	142	0.76	0.84	0.08	0	0	0	0	0	0	0	0
8/22/2024 21:54	42302	MOWR_T2	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
8/22/2024 21:54	46802	HEPB_T1	1	2	1	1	0.65	-0.35	-0.21	-0.2	0	0	0	0	0	0
8/22/2024 21:54	46203	DANV_T2	1	2	1	8.1	4.55	-3.55	-0.64	-0.68	0	0	0	0	0	0
8/22/2024 21:54	61501	EPET_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
8/22/2024 21:54	14801	TREI_T2	5	8	3	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/22/2024 21:54	65604	QVIL_T2	0	3	3	0	0.2	0.2	0.36	0.35	0	0	0	0	0	0
8/22/2024 21:54	57403	SPAN_T1	161	173	12	0.4	0.63	0.23	0	0	0	0	0	0	0	0
8/22/2024 21:54	44801	EDAN_T2	74	175	101	0.54	0.5	-0.04	0	0	0	0	0	0	0	0
8/22/2024 21:54	60501	NMAN_T2	12	10	-2	0.18	0.11	-0.07	0	0	0	0	0	0	0	0
8/22/2024 21:54	65603	QVIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
8/22/2024 21:54	10805	CHHI_T2	1	1	0	7.9	7.5	-0.4	-2.01	-2.08	2	2	0	1200	1200	0
8/22/2024 21:54	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
8/22/2024 21:54	56501	ROCK_T2	2	3	1	0.7	0.85	0.15	0	0	0	0	0	0	0	0
8/22/2024 21:54	56504	ROCK_T2	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
8/22/2024 21:54	29401	BELT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:54	16402	MOPO_T1	0	0	0	0	0	0	0.01	0.09	0	0	0	0	0	0
8/22/2024 21:54	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:54	44802	EDAN_T2	0	1	1	0	0	0	-0.6	-0.67	0	0	0	0	0	0
8/22/2024 21:54	43402	BENT_T1	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
8/22/2024 21:54	65601	QVIL_T2	0	106	106	0	0.22	0.22	0	0	0	0	0	0	0	0
8/22/2024 21:54	14802	TREI_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
8/22/2024 21:55	44701	MUNC_T2	70	40	-30	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
8/22/2024 21:55	20801	LOPO_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
8/22/2024 21:55	47203	FAXO_T2	0	0	0	0	0	0	-1.49	-0.18	1	0	-1	1200	0	-1200
8/22/2024 21:55	11103	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:55	53902	HALI_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
8/22/2024 21:55	64202	KINZ_T1	3	3	0	0.87	0.53	-0.34	0	0	0	0	0	0	0	0
8/22/2024 21:55	55101	WERT_T1	0	0	0	0	0	0	-1.31	-1.32	2	2	0	1500	1500	0
8/22/2024 21:55	54203	PENN_T1	22	44	22	1.25	0.7	-0.55	0	0	0	0	0	0	0	0
8/22/2024 21:55	56501	ROCK_T2	2	3	1	0.7	0.85	0.15	0	0	0	0	0	0	0	0
8/22/2024 21:55	43105	SMIL_T2	1	13	12	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/22/2024 21:55	53903	HALI_T2	2	2	0	1.55	1.7	0.15	0	0	0	0	0	0	0	0
8/22/2024 21:55	20401	ASHF_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
8/22/2024 21:55	64204	KINZ_T1	4	2	-2	0.35	0.55	0.2	0	0	0	0	0	0	0	0
8/22/2024 21:55	56504	ROCK_T2	0	0	0	0	0	0	-0.28	-0.34	0	0	0	0	0	0
8/22/2024 21:55	40601	PIGR_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/22/2024 21:55	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:55	48302	ORWI_T2	2	2	0	1.1	0.75	-0.35	-0.02	-0.02	0	0	0	0	0	0
8/22/2024 21:55	12802	MICK_T1	0	0	0	0	0	0	-1.19	-1.22	0	0	0	0	0	0
8/22/2024 21:55	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:55	64902	MILL_T2	0	0	0	0	0	0	-0.53	-0.53	1	1	0	900	900	0
8/22/2024 21:55	64201	KINZ_T1	7	5	-2	0.23	0.26	0.03	-0.45	-0.54	2	2	0	1800	1800	0
8/22/2024 21:55	11104	EGYP_T1	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
8/22/2024 21:55	12001	HATF_T1	0	0	0	0	0	0	0.92	1.15	1	1	0	600	600	0
8/22/2024 21:55	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:55	15203	SFAR_T2	1	1	0	0.2	0	-0.2	-0.47	-0.45	0	0	0	0	0	0
8/22/2024 21:55	46301	ROHR_T1	24	116	92	0.46	0.29	-0.17	0	0	0	0	0	0	0	0
8/22/2024 21:55	63602	LETO_T1	10	141	131	0.1	0.34	0.24	0	0	0	0	0	0	0	0
8/22/2024 21:55	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/22/2024 21:55	12807	MICK_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/22/2024 21:55	59201	THOM_T1	5	12	7	0.14	0.19	0.05	0	0	0	0	0	0	0	0
8/22/2024 21:55	54201	PENN_T1	85	145	60	0.41	0.34	-0.07	-0.85	-0.85	0	0	0	0	0	0
8/22/2024 21:55	20403	ASHF_T2	0	1	1	0	0	0	0.18	0.16	0	0	0	0	0	0
8/22/2024 21:55	67803	WLAN_T1	0	0	0	0	0	0	-0.74	-0.76	0	0	0	0	0	0
8/22/2024 21:55	63601	LETO_T1	2	2	0	0.15	0.45	0.3	0.46	0.4	2	2	0	2100	2100	0
8/22/2024 21:55	43102	SMIL_T2	7	9	2	0.67	0.76	0.09	-0.82	-0.82	1	1	0	600	600	0
8/22/2024 21:55	43103	SMIL_T2	3	8	5	0.23	0.46	0.23	0	0	0	0	0	0	0	0
8/22/2024 21:55	40602	PIGR_T1	1	1	0	0.6	0.6	0	0.08	0.05	0	0	0	0	0	0
8/22/2024 21:55	46302	ROHR_T1	5	8	3	2.1	1.5	-0.6	0.14	0.14	0	0	0	0	0	0
8/22/2024 21:55	67805	WLAN_T1	333	448	115	0.22	0.26	0.04	0	0	0	0	0	0	0	0
8/22/2024 21:55	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:55	20802	LOPO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 21:55	12004	HATF_T1	7	0	-7	0.11	0	-0.11	0	0	0	0	0	0	0	0
8/22/2024 21:55	53901	HALI_T2	1	1	0	1	1.3	0.3	-1.17	-1.19	0	0	0	0	0	0
8/22/2024 21:55	44703	MUNC_T2	2	2	0	1.3	1.2	-0.1	0.77	0.73	0	0	0	0	0	0
8/22/2024 21:55	44702	MUNC_T2	159	7	-152	0.52	0.14	-0.38	0	0	0	0	0	0	0	0
8/22/2024 21:55	47401	PENS_T1	0	0	0	0	0	0	-0.18	-0.13	0	0	0	0	0	0
8/22/2024 21:55	54205	PENN_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 21:55	59202	THOM_T1	12	36	24	0.13	0.17	0.04	0	0	0	0	0	0	0	0
8/22/2024 21:55	20603	GRWO_T2	0	0	0	0	0	0	-0.66	-0.63	1	1	0	900	900	0
8/22/2024 21:55	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:55	12604	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:56	67505	WEWI_T1	0	0	0	0	0	0	-0.04	-0.05	1	1	0	900	900	0
8/22/2024 21:56	67502	WEWI_T2	1	5	4	0.1	0.1	0	-0.47	-0.43	0	0	0	0	0	0
8/22/2024 21:56	29402	BELT_T1	107	249	142	0.76	0.84	0.08	0	0	0	0	0	0	0	0
8/22/2024 21:56	42803	SELI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:56	63601	LETO_T1	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
8/22/2024 21:56	45902	AUBU_T1	9	11	2	0.13	0.18	0.05	-2.19	-2.1	2	2	0	1200	1200	0
8/22/2024 21:56	15203	SFAR_T2	1	1	0	0.2	0	-0.2	-0.47	-0.45	0	0	0	0	0	0
8/22/2024 21:56	47401	PENS_T1	0	0	0	0	0	0	-0.18	-0.13	0	0	0	0	0	0
8/22/2024 21:56	14801	TREI_T2	5	8	3	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/22/2024 21:56	42802	SELI_T1	0	1	1	0	0.3	0.3	-1.22	-1.23	1	1	0	900	900	0
8/22/2024 21:56	53901	HALI_T2	1	1	0	1	1.3	0.3	-1.17	-1.19	0	0	0	0	0	0
8/22/2024 21:56	45501	DERR_T2	0	1	1	0	0.2	0.2	0.13	-0.06	2	2	0	1800	1800	0
8/22/2024 21:56	14203	EALL_T1	0	0	0	0	0	0	-0.23	-0.21	1	1	0	1200	1200	0
8/22/2024 21:56	42002	MNVL_T2	1	1	0	1.7	1.6	-0.1	0.38	0.41	0	0	0	0	0	0
8/22/2024 21:56	42001	MNVL_T2	240	276	36	0.72	1.01	0.29	0	0	0	0	0	0	0	0
8/22/2024 21:56	44703	MUNC_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
8/22/2024 21:56	46101	MACI_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
8/22/2024 21:56	56501	ROCK_T2	2	3	1	0.7	0.85	0.15	0	0	0	0	0	0	0	0
8/22/2024 21:56	66901	SHII_T2	97	9	-88	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
8/22/2024 21:56	53902	HALI_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
8/22/2024 21:56	63602	LETO_T1	10	141	131	0.1	0.34	0.24	-0.25	-0.33	0	0	0	0	0	0
8/22/2024 21:56	47002	HUGH_T2	2	3	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
8/22/2024 21:56	60701	BREC_T1	0	2	2	0	0.1	0.1	-0.46	-0.5	1	1	0	600	600	0
8/22/2024 21:56	44702	MUNC_T2	159	7	-152	0.52	0.14	-0.38	0	0	0	0	0	0	0	0
8/22/2024 21:56	66903	SHII_T2	0	0	0	0	0	0	-0.81	-0.88	0	0	0	0	0	0
8/22/2024 21:56	29401	BELT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:56	67503	WEWI_T2	1	1	0	8.5	8.7	0.2	0	0	0	0	0	0	0	0
8/22/2024 21:56	66504	SMAN_T2	0	0	0	0	0	0	-0.18	-0.29	0	0	0	0	0	0
8/22/2024 21:56	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/22/2024 21:56	44701	MUNC_T2	70	40	-30	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
8/22/2024 21:56	47001	HUGH_T2	4	3	-1	6.78	8.73	1.95	-0.82	-0.18	0	0	0	0	0	0
8/22/2024 21:56	14802	TREI_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
8/22/2024 21:56	66902	SHII_T2	35	0	-35	0.14	0	-0.14	0	0	0	0	0	0	0	0
8/22/2024 21:56	56504	ROCK_T2	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
8/22/2024 21:56	53903	HALI_T2	2	2	0	1.55	1.7	0.15	0	0	0	0	0	0	0	0
8/22/2024 21:56	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:56	62607	ENGL_T1	0	0	0	0	0	0	-0.9	-0.93	1	1	0	300	300	0
8/22/2024 21:57	52004	LING_T2	2	2	0	5.95	6.25	0.3	0	0	0	0	0	0	0	0
8/22/2024 21:57	44801	EDAN_T2	74	175	101	0.54	0.5	-0.04	0	0	0	0	0	0	0	0
8/22/2024 21:57	53902	HALI_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
8/22/2024 21:57	46802	HEPB_T1	1	2	1	1	0.65	-0.35	-0.21	-0.2	0	0	0	0	0	0
8/22/2024 21:57	57104	SPHI_T2	0	0	0	0	0	0	-0.9	-0.94	0	0	0	0	0	0
8/22/2024 21:57	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.74	0	0	0	0	0	0
8/22/2024 21:57	11901	ETEX_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
8/22/2024 21:57	60803	BUCK_T1	12	25	13	0.43	0.5	0.07	0	0	0	0	0	0	0	0
8/22/2024 21:57	52403	GRPA_T2	2	2	0	0.95	1.2	0.25	0.03	-0.01	0	0	0	0	0	0
8/22/2024 21:57	64203	KINZ_T1	0	0	0	0	0	0	-0.03	0.03	1	1	0	600	600	0
8/22/2024 21:57	21705	SUBU_T1	1	1	0	5.9	5.6	-0.3	0	0	0	0	0	0	0	0
8/22/2024 21:57	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 21:57	47401	PENS_T1	0	0	0	0	0	0	-0.36	-0.26	0	0	0	0	0	0
8/22/2024 21:57	44802	EDAN_T2	0	1	1	0	0	0	-0.6	-0.67	0	0	0	0	0	0
8/22/2024 21:57	42902	MIDD_T2	0	0	0	0	0	0	-2.15	-2.09	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/22/2024 21:57	40602	PIGR_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/22/2024 21:57	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
8/22/2024 21:57	16103	BING_T2	0	0	0	0	0	0	-1.41	-1.44	1	1	0	900	900	0
8/22/2024 21:57	57004	WHHI_T2	0	0	0	0	0	0	-0.46	-0.53	0	0	0	0	0	0
8/22/2024 21:57	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:57	23901	ERMO_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
8/22/2024 21:57	52402	GRPA_T2	4	5	1	0.9	0.94	0.04	0	0	0	0	0	0	0	0
8/22/2024 21:57	64201	KINZ_T1	7	5	-2	0.23	0.26	0.03	0	0	0	0	0	0	0	0
8/22/2024 21:57	67805	WLAN_T1	333	448	115	0.22	0.26	0.04	0	0	0	0	0	0	0	0
8/22/2024 21:57	67804	WLAN_T1	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
8/22/2024 21:57	60101	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:57	42903	MIDD_T2	2	2	0	0.15	0.8	0.65	0	0	0	0	0	0	0	0
8/22/2024 21:57	45501	DERR_T2	0	1	1	0	0.2	0.2	0.13	-0.06	2	2	0	1800	1800	0
8/22/2024 21:57	60801	BUCK_T1	46	87	41	0.28	0.51	0.23	-0.19	-0.2	0	0	0	0	0	0
8/22/2024 21:57	60701	BREC_T1	0	2	2	0	0.1	0.1	-0.92	-1	2	2	0	1200	1200	0
8/22/2024 21:57	57401	SPAN_T1	2	7	5	0.85	0.4	-0.45	-1.7	-2.55	3	3	0	1800	1800	0
8/22/2024 21:57	15702	TANN_T2	0	0	0	0	0	0	-0.39	-0.43	0	0	0	0	0	0
8/22/2024 21:57	57101	SPHI_T2	6	6	0	0.6	0.27	-0.33	0	0	0	0	0	0	0	0
8/22/2024 21:57	64202	KINZ_T1	3	3	0	0.87	0.53	-0.34	0	0	0	0	0	0	0	0
8/22/2024 21:57	49803	UNIV_T1	1	1	0	5.2	4.8	-0.4	-2.25	-2.26	0	0	0	0	0	0
8/22/2024 21:57	45902	AUBU_T1	9	11	2	0.13	0.18	0.05	-2.19	-2.1	2	2	0	1200	1200	0
8/22/2024 21:57	21701	SUBU_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
8/22/2024 21:57	57403	SPAN_T1	161	173	12	0.4	0.63	0.23	0	0	0	0	0	0	0	0
8/22/2024 21:57	57006	WHHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/22/2024 21:57	53903	HALI_T2	2	2	0	1.55	1.7	0.15	0	0	0	0	0	0	0	0
8/22/2024 21:57	40601	PIGR_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/22/2024 21:57	15604	NSTR_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
8/22/2024 21:57	21704	SUBU_T1	0	0	0	0	0	0	-1.21	-1.18	1	1	0	1200	1200	0
8/22/2024 21:57	67203	TEHI_T1	0	0	0	0	0	0	2.46	2.3	2	2	0	1500	1500	0
8/22/2024 21:57	64204	KINZ_T1	4	2	-2	0.35	0.55	0.2	0	0	0	0	0	0	0	0
8/22/2024 21:57	48302	ORWI_T2	2	2	0	1.1	0.75	-0.35	0	0	0	0	0	0	0	0
8/22/2024 21:57	62105	ELAN_T1	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
8/22/2024 21:57	10705	CATA_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
8/22/2024 21:57	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 21:57	58402	MORO_T1	0	0	0	0	0	0	-0.32	-0.36	2	2	0	1500	1500	0
8/22/2024 21:57	57003	WHHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/22/2024 21:57	56501	ROCK_T2	2	3	1	0.7	0.85	0.15	0.2	0.2	0	0	0	0	0	0
8/22/2024 21:57	21703	SUBU_T1	0	0	0	0	0	0	0.63	0.59	0	0	0	0	0	0
8/22/2024 21:57	52404	GRPA_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
8/22/2024 21:57	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:57	66302	MCGO_T2	0	0	0	0	0	0	-0.79	-0.79	0	0	0	0	0	0
8/22/2024 21:57	57106	SPHI_T2	3	3	0	1.53	1.67	0.14	0	0	0	0	0	0	0	0
8/22/2024 21:57	26803	JAFR_T1	0	0	0	0	0	0	-0.27	-0.25	1	1	0	900	900	0
8/22/2024 21:57	52002	LING_T2	1	1	0	0.1	0.3	0.2	0.07	0.07	0	0	0	0	0	0
8/22/2024 21:57	53901	HALI_T2	1	1	0	1	1.3	0.3	-1.17	-1.19	0	0	0	0	0	0
8/22/2024 21:57	52006	LING_T2	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
8/22/2024 21:57	53501	EVIL_T2	1	2	1	0.2	0.65	0.45	-0.01	-0.01	1	1	0	600	600	0
8/22/2024 21:57	15703	TANN_T2	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
8/22/2024 21:57	53601	DALM_T2	1	1	0	0.6	0.8	0.2	0.07	0.08	0	0	0	0	0	0
8/22/2024 21:58	42803	SELI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:58	21701	SUBU_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
8/22/2024 21:58	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
8/22/2024 21:58	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.74	0	0	0	0	0	0
8/22/2024 21:58	60101	COCA_T1	0	0	0	0	0	0	0.35	0.31	0	0	0	0	0	0
8/22/2024 21:58	54502	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 21:58	12604	MACA_T1	0	0	0	0	0	0	0.35	0.31	0	0	0	0	0	0
8/22/2024 21:58	15203	SFAR_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 21:58	53903	HALI_T2	2	2	0	1.55	1.7	0.15	0	0	0	0	0	0	0	0
8/22/2024 21:58	52006	LING_T2	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
8/22/2024 21:58	64503	LAVI_T1	0	0	0	0	0	0	-0.49	-0.47	1	1	0	1200	1200	0
8/22/2024 21:58	53902	HALI_T2	1	1	0	5.1	5.3	0.2	-0.16	-0.17	0	0	0	0	0	0
8/22/2024 21:58	20603	GRWO_T2	0	0	0	0	0	0	-0.66	-0.63	1	1	0	900	900	0
8/22/2024 21:58	21703	SUBU_T1	0	0	0	0	0	0	0.63	0.59	0	0	0	0	0	0
8/22/2024 21:58	24204	PROV_T3	1	2	1	6.1	2.85	-3.25	0	0	0	0	0	0	0	0
8/22/2024 21:58	10504	CRAC_T1	0	0	0	0	0	0	-0.2	-0.32	0	0	0	0	0	0
8/22/2024 21:58	54504	ENOL_T2	0	0	0	0	0	0	-0.97	-0.98	1	1	0	600	600	0
8/22/2024 21:58	52004	LING_T2	2	2	0	5.95	6.25	0.3	0.2	0.18	0	0	0	0	0	0
8/22/2024 21:58	54505	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/22/2024 21:58	63501	HEID_TBK1-2	55	56	1	1.43	1.49	0.06	0.46	0.46	0	0	0	0	0	0
8/22/2024 21:58	42802	SELI_T1	0	1	1	0	0.3	0.3	-1.22	-1.23	1	1	0	900	900	0
8/22/2024 21:58	15204	SFAR_T2	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
8/22/2024 21:58	25503	MADI_T1	66	81	15	0.21	0.23	0.02	-0.95	-0.98	0	0	0	0	0	0
8/22/2024 21:58	44801	EDAN_T2	74	175	101	0.54	0.5	-0.04	0	0	0	0	0	0	0	0
8/22/2024 21:58	52002	LING_T2	1	1	0	0.1	0.3	0.2	0.07	0.07	0	0	0	0	0	0
8/22/2024 21:58	53501	EVIL_T2	1	2	1	0.2	0.65	0.45	-0.01	-0.01	1	1	0	600	600	0
8/22/2024 21:58	24702	FLND_T2	0	0	0	0	0	0	1.63	1.56	0	0	0	0	0	0
8/22/2024 21:58	25501	MADI_T1	3	3	0	1.37	1.37	0	0	0	0	0	0	0	0	0
8/22/2024 21:58	67503	WEWI_T2	1	1	0	8.5	8.7	0.2	-0.01	0.07	0	0	0	0	0	0
8/22/2024 21:58	67502	WEWI_T2	1	5	4	0.1	0.1	0	0	0	0	0	0	0	0	0
8/22/2024 21:58	21705	SUBU_T1	1	1	0	5.9	5.6	-0.3	0	0	0	0	0	0	0	0
8/22/2024 21:58	45402	WBLO_T2	1	22	21	0.9	0.24	-0.66	-0.69	-0.74	0	0	0	0	0	0
8/22/2024 21:58	44802	EDAN_T2	0	1	1	0	0	0	-0.6	-0.67	0	0	0	0	0	0
8/22/2024 21:58	24202	PROV_T4	1	1	0	2.1	0	-2.1	-0.46	-0.53	1	1	0	1200	1200	0
8/22/2024 21:58	59101	WALK_T2	0	0	0	0	0	0	1.5	1.5	0	0	0	0	0	0
8/22/2024 21:58	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:58	15702	TANN_T2	0	0	0	0	0	0	-0.78	-0.85	0	0	0	0	0	0
8/22/2024 21:58	24201	PROV_T3	1	13	12	6.6	0.59	-6.01	-1.41	-1.44	1	1	0	1200	1200	0
8/22/2024 21:58	53803	MBRG_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
8/22/2024 21:58	15703	TANN_T2	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
8/22/2024 21:58	42201	SHEN_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
8/22/2024 21:58	10707	CATA_T2	0	0	0	0	0	0	0.61	0.66	0	0	0	0	0	0
8/22/2024 21:58	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:58	53901	HALI_T2	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
8/22/2024 21:58	67602	WARW_T2	0	0	0	0	0	0	0.54	0.65	0	0	0	0	0	0
8/22/2024 21:59	59201	THOM_T1	5	12	7	0.14	0.19	0.05	0	0	0	0	0	0	0	0
8/22/2024 21:59	10805	CHHI_T2	1	1	0	7.9	7.5	-0.4	-1.01	-1.04	1	1	0	600	600	0
8/22/2024 21:59	64202	KINZ_T1	3	3	0	0.87	0.53	-0.34	0	0	0	0	0	0	0	0
8/22/2024 21:59	43105	SMIL_T2	1	13	12	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/22/2024 21:59	60101	COCA_T1	0	0	0	0	0	0	0.35	0.31	0	0	0	0	0	0
8/22/2024 21:59	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/22/2024 21:59	63401	HONY_T1	0	0	0	0	0	0	0.01	-0.14	1	1	0	600	600	0
8/22/2024 21:59	45602	WOOL_T1	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
8/22/2024 21:59	42802	SELI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/22/2024 21:59	65503	MOJO_T2	93	0	-93	0.14	0	-0.14	0	0	0	0	0	0	0	0
8/22/2024 21:59	12002	HATF_T1	0	0	0	0	0	0	-1.03	-1.11	1	1	0	1200	1200	0
8/22/2024 21:59	21204	ECAR_T2	1	2	1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/22/2024 21:59	59202	THOM_T1	12	36	24	0.13	0.17	0.04	0	0	0	0	0	0	0	0
8/22/2024 21:59	57401	SPAN_T1	2	7	5	0.85	0.4	-0.45	-0.57	-0.85	1	1	0	600	600	0
8/22/2024 21:59	64201	KINZ_T1	7	5	-2	0.23	0.26	0.03	0	0	0	0	0	0	0	0
8/22/2024 21:59	67805	WLAN_T1	333	448	115	0.22	0.26	0.04	0	0	0	0	0	0	0	0
8/22/2024 21:59	10705	CATA_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
8/22/2024 21:59	22602	KIMB_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
8/22/2024 21:59	46301	ROHR_T1	24	116	92	0.46	0.29	-0.17	0.22	0.22	0	0	0	0	0	0
8/22/2024 21:59	56501	ROCK_T2	2	3	1	0.7	0.85	0.15	0	0	0	0	0	0	0	0
8/22/2024 21:59	65502	MOJO_T2	281	3	-278	0.29	0.1	-0.19	0	0	0	0	0	0	0	0
8/22/2024 21:59	56504	ROCK_T2	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
8/22/2024 21:59	29401	BELT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:59	43103	SMIL_T2	3	8	5	0.23	0.46	0.23	0	0	0	0	0	0	0	0
8/22/2024 21:59	61703	ELIZ_T1	0	0	0	0	0	0	-2.51	-2.01	2	2	0	2100	2100	0
8/22/2024 21:59	43402	BENT_T1	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
8/22/2024 21:59	40504	CRES_T1	0	0	0	0	0	0	-0.45	-0.4	0	0	0	0	0	0
8/22/2024 21:59	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	2	1	600	1800	1200
8/22/2024 21:59	64203	KINZ_T1	0	0	0	0	0	0	-0.03	0.03	1	1	0	600	600	0
8/22/2024 21:59	45502	DERR_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
8/22/2024 21:59	57403	SPAN_T1	161	173	12	0.4	0.63	0.23	0	0	0	0	0	0	0	0
8/22/2024 21:59	29402	BELT_T1	107	249	142	0.76	0.84	0.08	0	0	0	0	0	0	0	0
8/22/2024 21:59	42803	SELI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:59	63305	GREE_T1	14	8	-6	0.35	0.34	-0.01	0	0	0	0	0	0	0	0
8/22/2024 21:59	26402	INOR_T1	0	0	0	0	0	0	-1.07	-1.09	1	1	0	600	600	0
8/22/2024 21:59	67602	WARW_T2	0	0	0	0	0	0	0.54	0.65	0	0	0	0	0	0
8/22/2024 21:59	55405	SHER_T1	9	11	2	0.33	0.58	0.25	-0.17	-0.17	0	0	0	0	0	0
8/22/2024 21:59	10801	CHHI_T1	0	0	0	0	0	0	-1.32	-1.34	2	2	0	1500	1500	0
8/22/2024 21:59	43102	SMIL_T2	7	9	2	0.67	0.76	0.09	0	0	0	0	0	0	0	0
8/22/2024 21:59	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 21:59	61701	ELIZ_T1	1	1	0	3.7	4	0.3	0	0	0	0	0	0	0	0
8/22/2024 21:59	55002	NEWP_T1	4	5	1	0.33	0.42	0.09	-0.25	-0.26	0	0	0	0	0	0
8/22/2024 21:59	12004	HATF_T1	7	0	-7	0.11	0	-0.11	0	0	0	0	0	0	0	0
8/22/2024 21:59	46302	ROHR_T1	5	8	3	2.1	1.5	-0.6	0	0	0	0	0	0	0	0
8/22/2024 21:59	45501	DERR_T2	0	1	1	0	0.2	0.2	0.27	-0.12	4	4	0	3600	3600	0
8/22/2024 21:59	42801	SELI_T1	0	0	0	0	0	0	-1.76	-1.82	1	1	0	1200	1200	0
8/22/2024 21:59	53501	EVIL_T2	1	2	1	0.2	0.65	0.45	-0.01	-0.01	1	1	0	600	600	0
8/22/2024 21:59	26401	INOR_T1	1	1	0	7.6	7.9	0.3	0	0	0	0	0	0	0	0
8/22/2024 21:59	55001	NEWP_T1	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
8/22/2024 21:59	43108	SMIL_T2	0	0	0	0	0	0	-1	-1.05	1	1	0	1200	1200	0
8/22/2024 21:59	12701	MACU_T1	0	4	4	0	0.5	0.5	0.1	0.11	0	0	0	0	0	0
8/22/2024 21:59	64204	KINZ_T1	4	2	-2	0.35	0.55	0.2	0	0	0	0	0	0	0	0
8/22/2024 21:59	63306	GREE_T1	0	0	0	0	0	0	-1.43	-1.44	1	1	0	900	900	0
8/22/2024 21:59	67803	WLAN_T1	0	0	0	0	0	0	-0.74	-0.76	0	0	0	0	0	0
8/22/2024 21:59	21206	ECAR_T2	1	1	0	8.3	8.2	-0.1	-0.05	-0.13	0	0	0	0	0	0
8/22/2024 22:00	60501	NMAN_T2	10	0	-10	0.11	0	-0.11	0	0	0	0	0	0	0	0
8/22/2024 22:00	47401	PENS_T1	0	0	0	0	0	0	-0.18	-0.13	0	0	0	0	0	0
8/22/2024 22:00	44802	EDAN_T2	0	1	1	0	0	0	-0.6	-0.67	0	0	0	0	0	0
8/22/2024 22:00	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 22:00	43103	SMIL_T2	4	9	5	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
8/22/2024 22:00	56501	ROCK_T2	2	3	1	0.85	0.37	-0.48	0.2	0.2	0	0	0	0	0	0
8/22/2024 22:00	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.09	0	0	0	0	0	0
8/22/2024 22:00	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 22:00	61501	EPET_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
8/22/2024 22:00	43105	SMIL_T2	4	15	11	0.13	0.21	0.08	0	0	0	0	0	0	0	0
8/22/2024 22:00	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
8/22/2024 22:00	61703	ELIZ_T1	0	0	0	0	0	0	-2.51	-2.01	2	2	0	2100	2100	0
8/22/2024 22:00	11303	EMMA_T1	0	0	0	0	0	0	-1.42	-1.44	0	0	0	0	0	0
8/22/2024 22:00	43102	SMIL_T2	8	9	1	0.71	0.76	0.05	-0.82	-0.82	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/22/2024 22:00	60803	BUCK_T1	20	31	11	0.4	0.51	0.11	0	0	0	0	0	0	0	0
8/22/2024 22:00	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.02	0	0	0	0	0	0
8/22/2024 22:00	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
8/22/2024 22:00	40901	JESH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 22:00	53903	HALI_T2	2	2	0	1.7	1.2	-0.5	0	0	0	0	0	0	0	0
8/22/2024 22:00	67803	WLAN_T1	0	3	3	0	0.1	0.1	-0.74	-0.76	0	0	0	0	0	0
8/22/2024 22:00	52002	LING_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/22/2024 22:00	14802	TREI_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
8/22/2024 22:00	14801	TREI_T2	8	2	-6	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/22/2024 22:00	53901	HALI_T2	1	1	0	1.3	0.7	-0.6	-1.17	-1.19	0	0	0	0	0	0
8/22/2024 22:00	52004	LING_T2	2	2	0	6.15	6.35	0.2	0.2	0.18	0	0	0	0	0	0
8/22/2024 22:00	20401	ASHF_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
8/22/2024 22:00	67802	WLAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 22:00	65503	MOJO_T2	0	0	0	0	0	0	-0.2	-0.24	0	0	0	0	0	0
8/22/2024 22:00	52006	LING_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
8/22/2024 22:00	16201	POFA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 22:00	67805	WLAN_T1	350	503	153	0.2	0.34	0.14	0	0	0	0	0	0	0	0
8/22/2024 22:00	64602	LEOL_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
8/22/2024 22:00	55002	NEWP_T1	5	2	-3	0.42	0.2	-0.22	-0.25	-0.26	0	0	0	0	0	0
8/22/2024 22:00	61701	ELIZ_T1	1	1	0	4	3.6	-0.4	1.38	1.18	0	0	0	0	0	0
8/22/2024 22:00	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
8/22/2024 22:00	67602	WARW_T2	0	0	0	0	0	0	0.54	0.65	0	0	0	0	0	0
8/22/2024 22:00	45501	DERR_T2	0	1	1	0	0.3	0.3	0.13	-0.06	2	2	0	1800	1800	0
8/22/2024 22:00	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
8/22/2024 22:00	64902	MILL_T2	0	0	0	0	0	0	-0.53	-0.53	1	1	0	900	900	0
8/22/2024 22:00	67804	WLAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 22:00	44801	EDAN_T2	92	296	204	0.49	0.52	0.03	0	0	0	0	0	0	0	0
8/22/2024 22:00	44301	BEAV_T2	0	0	0	0	0	0.11	0.35	1	1	0	0	600	600	0
8/22/2024 22:00	61504	EPET_T2	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
8/22/2024 22:00	11104	EGYP_T1	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
8/22/2024 22:00	65502	MOJO_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 22:00	60801	BUCK_T1	53	95	42	0.37	0.51	0.14	-0.19	-0.2	0	0	0	0	0	0
8/22/2024 22:00	67401	WAKE_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 22:00	15203	SFAR_T2	0	0	0	0	0	0	-0.47	-0.45	0	0	0	0	0	0
8/22/2024 22:00	14601	SWHI_T1	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
8/22/2024 22:00	11103	EGYP_T1	1	0	-1	1.6	0	-1.6	0	0	0	0	0	0	0	0
8/22/2024 22:00	51201	MTON_T1	0	0	0	0	0	0	0.12	0.25	0	0	0	0	0	0
8/22/2024 22:01	41902	REED_T1	0	0	0	0	0	0	1.06	1.07	0	0	0	0	0	0
8/22/2024 22:01	54205	PENN_T1	4	3	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/22/2024 22:01	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 22:01	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 22:01	56501	ROCK_T2	2	3	1	0.85	0.37	-0.48	0.2	0.2	0	0	0	0	0	0
8/22/2024 22:01	15001	BLMO_T1	0	6	6	0	0.17	0.17	0	0	0	0	0	0	0	0
8/22/2024 22:01	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
8/22/2024 22:01	13704	SOHN_T2	0	1	1	0	0.1	0.1	-0.36	-0.38	0	0	0	0	0	0
8/22/2024 22:01	52401	GRPA_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/22/2024 22:01	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
8/22/2024 22:01	66505	SMAN_T2	0	0	0	0	0	0	0.41	0.31	1	1	0	900	900	0
8/22/2024 22:01	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/22/2024 22:01	46101	MACI_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
8/22/2024 22:01	52404	GRPA_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
8/22/2024 22:01	12502	MITR_T2	2	2	0	4.6	6	1.4	0	0	0	0	0	0	0	0
8/22/2024 22:01	59101	WALK_T2	0	0	0	0	0	0	1.5	1.5	0	0	0	0	0	0
8/22/2024 22:01	65205	PRIN_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
8/22/2024 22:01	24201	PROV_T3	11	10	-1	0.64	0.74	0.1	-1.41	-1.44	1	1	0	1200	1200	0
8/22/2024 22:01	23001	SAJO_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
8/22/2024 22:01	59201	THOM_T1	12	0	-12	0.19	0	-0.19	0	0	0	0	0	0	0	0
8/22/2024 22:01	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.74	0	0	0	0	0	0
8/22/2024 22:01	24204	PROV_T3	2	2	0	2.85	2.9	0.05	0	0	0	0	0	0	0	0
8/22/2024 22:01	41901	REED_T1	9	8	-1	0.63	0.29	-0.34	0	0	0	0	0	0	0	0
8/22/2024 22:01	55101	WERT_T1	0	0	0	0	0	0	-1.31	-1.32	2	2	0	1500	1500	0
8/22/2024 22:01	65502	MOJO_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 22:01	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
8/22/2024 22:01	12505	MITR_T2	0	0	0	0	0	0	0.08	-0.05	0	0	0	0	0	0
8/22/2024 22:01	16004	DORN_T1	0	0	0	0	0	0	-0.79	-0.86	1	1	0	1200	1200	0
8/22/2024 22:01	42902	MIDD_T2	0	0	0	0	0	0	-1.07	-1.05	1	1	0	600	600	0
8/22/2024 22:01	59202	THOM_T1	36	5	-31	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
8/22/2024 22:01	65503	MOJO_T2	0	0	0	0	0	0	-0.2	-0.24	0	0	0	0	0	0
8/22/2024 22:01	52402	GRPA_T2	5	4	-1	0.94	0.73	-0.21	0	0	0	0	0	0	0	0
8/22/2024 22:01	54201	PENN_T1	129	137	8	0.35	0.35	0	0	0	0	0	0	0	0	0
8/22/2024 22:01	40902	JESH_T1	0	0	0	0	0	0	-0.71	-0.74	0	0	0	0	0	0
8/22/2024 22:01	42903	MIDD_T2	2	2	0	0.25	0.8	0.55	0	0	0	0	0	0	0	0
8/22/2024 22:01	53901	HALI_T2	1	1	0	1.3	0.7	-0.6	-1.17	-1.19	0	0	0	0	0	0
8/22/2024 22:01	52403	GRPA_T2	2	2	0	1.2	1.2	0	0.03	-0.01	0	0	0	0	0	0
8/22/2024 22:01	40901	JESH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/22/2024 22:01	44301	BEAV_T2	0	0	0	0	0	0	0.11	0.35	1	1	0	600	600	0
8/22/2024 22:01	54203	PENN_T1	41	35	-6	0.74	0.81	0.07	0.13	0.16	0	0	0	0	0	0
8/22/2024 22:01	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	-1.19	-1.23	1	1	0	600	600	0
8/22/2024 22:01	53501	EVIL_T2	1	2	1	0.6	0.9	0.3	-0.01	-0.01	1	1	0	600	600	0
8/22/2024 22:01	42002	MNVL_T2	1	2	1	1.7	0.85	-0.85	0.38	0.41	0	0	0	0	0	0
8/22/2024 22:01	63804	HEMP_T1	1	1	0	5.3	5.4	0.1	-0.38	-0.39	0	0	0	0	0	0
8/22/2024 22:01	67401	WAKE_T2	0	6	6	0	0.1	0.1	-1.45	-1.46	0	0	0	0	0	0
8/22/2024 22:01	46004	BERW_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
8/22/2024 22:01	42802	SELI_T1	0	1	1	0	0.8	0.8	-1.22	-1.23	1	1	0	900	900	0
8/22/2024 22:01	42001	MNVL_T2	253	285	32	0.85	1.09	0.24	0	0	0	0	0	0	0	0
8/22/2024 22:01	53903	HALI_T2	2	2	0	1.7	1.2	-0.5	0	0	0	0	0	0	0	0
8/22/2024 22:02	43108	SMIL_T2	0	0	0	0	0	0	-1	-1.05	1	1	0	1200	1200	0
8/22/2024 22:02	24105	EHAZ_T1	4	4	0	5.7	5.68	-0.02	0	0	0	0	0	0	0	0
8/22/2024 22:02	52403	GRPA_T2	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
8/22/2024 22:02	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
8/22/2024 22:02	42903	MIDD_T2	2	2	0	0.25	0.8	0.55	-1.24	-1.29	1	1	0	1200	1200	0
8/22/2024 22:02	61504	EPET_T2	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
8/22/2024 22:02	43102	SMIL_T2	8	9	1	0.71	0.76	0.05	-0.82	-0.82	1	1	0	600	600	0
8/22/2024 22:02	63304	GREE_T1	0	0	0	0	0	0	-0.3	-0.35	0	0	0	0	0	0
8/22/2024 22:02	12801	MICK_T1	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
8/22/2024 22:02	65502	MOJO_T2	3	0	-3	0.1	0	-0.1	-0.9	-0.89	0	0	0	0	0	0
8/22/2024 22:02	52101	MEIS_T1	2	2	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
8/22/2024 22:02	40602	PIGR_T1	1	1	0	0.6	0.7	0.1	0.08	0.05	0	0	0	0	0	0
8/22/2024 22:02	53501	EVIL_T2	1	2	1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
8/22/2024 22:02	63305	GREE_T1	8	1	-7	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
8/22/2024 22:02	42503	ALTA_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
8/22/2024 22:02	24104	EHAZ_T1	0	0	0	0	0	0	-0.85	-0.84	1	1	0	1200	1200	0
8/22/2024 22:02	52401	GRPA_T2	1	2	1	0.1	0.5	0.4	-0.42	-0.46	0	0	0	0	0	0
8/22/2024 22:02	45802	HEGI_T2	1	47	46	0.7	1.5	0.8	2.01	0.34	0	0	0	0	0	0
8/22/2024 22:02	52404	GRPA_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
8/22/2024 22:02	46203	DANV_T2	1	1	0	8.6	9	0.4	0	0	0	0	0	0	0	0
8/22/2024 22:02	59002	MIFF_T1	5	6	1	0.32	0.2	-0.12	0	0	0	0	0	0	0	0
8/22/2024 22:02	43103	SMIL_T2	4	9	5	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
8/22/2024 22:02	52402	GRPA_T2	5	4	-1	0.94	0.73	-0.21	0	0	0	0	0	0	0	0
8/22/2024 22:02	59101	WALK_T2	0	0	0	0	0	0	1.5	1.5	0	0	0	0	0	0
8/22/2024 22:02	53903	HALI_T2	2	2	0	1.7	1.2	-0.5	0	0	0	0	0	0	0	0
8/22/2024 22:02	46205	DANV_T2	0	0	0	0	0	0	-0.78	-0.86	1	1	0	1200	1200	0
8/22/2024 22:02	46302	ROHR_T1	6	38	32	1.88	0.49	-1.39	0.14	0.14	0	0	0	0	0	0
8/22/2024 22:02	53901	HALI_T2	1	1	0	1.3	0.7	-0.6	-2.34	-2.38	0	0	0	0	0	0
8/22/2024 22:02	42802	SELI_T1	0	1	1	0	0.8	0.8	-1.22	-1.23	1	1	0	900	900	0
8/22/2024 22:02	53502	EVIL_T2	0	0	0	0	0	0	0.08	0.15	0	0	0	0	0	0
8/22/2024 22:02	44703	MUNC_T2	2	2	0	0.9	1.2	0.3	0.77	0.73	0	0	0	0	0	0
8/22/2024 22:02	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 22:02	44701	MUNC_T2	4	216	212	0.13	0.21	0.08	0	0	0	0	0	0	0	0
8/22/2024 22:02	43801	SWIL_T1	2	11	9	3.3	0.76	-2.54	0	0	0	0	0	0	0	0
8/22/2024 22:02	44801	EDAN_T2	92	296	204	0.49	0.52	0.03	-3.23	-3.27	0	0	0	0	0	0
8/22/2024 22:02	16201	POFA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 22:02	45501	DERR_T2	0	1	1	0	0.3	0.3	0.27	-0.12	4	4	0	3600	3600	0
8/22/2024 22:02	55102	WERT_T2	0	0	0	0	0	0	-0.67	-0.71	1	1	0	600	600	0
8/22/2024 22:02	46301	ROHR_T1	61	224	163	0.29	0.33	0.04	0	0	0	0	0	0	0	0
8/22/2024 22:02	14802	TREI_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
8/22/2024 22:02	20401	ASHF_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
8/22/2024 22:02	67201	TEHI_T1	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
8/22/2024 22:02	58202	NEWV_T1	0	8	8	0	0.5	0.5	0.26	0.19	0	0	0	0	0	0
8/22/2024 22:02	43105	SMIL_T2	4	15	11	0.13	0.21	0.08	0	0	0	0	0	0	0	0
8/22/2024 22:02	43802	SWIL_T1	0	0	0	0	0	0	-0.04	-0.05	1	1	0	600	600	0
8/22/2024 22:02	46001	BERW_T1	0	0	0	0	0	0	-1.17	-1.17	0	0	0	0	0	0
8/22/2024 22:02	59003	MIFF_T1	0	0	0	0	0	0	0.6	0.47	0	0	0	0	0	0
8/22/2024 22:02	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 22:02	24102	EHAZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 22:02	61703	ELIZ_T1	0	0	0	0	0	0	-2.51	-2.01	2	2	0	2100	2100	0
8/22/2024 22:02	40601	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 22:02	44702	MUNC_T2	1	21	20	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
8/22/2024 22:02	44301	BEAV_T2	0	0	0	0	0	0	0.11	0.35	1	1	0	600	600	0
8/22/2024 22:02	14801	TREI_T2	8	2	-6	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/22/2024 22:02	58401	MORO_T1	0	0	0	0	0	0	-1.11	-1.13	1	1	0	600	600	0
8/22/2024 22:02	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 22:02	61701	ELIZ_T1	1	1	0	4	3.6	-0.4	0	0	0	0	0	0	0	0
8/22/2024 22:02	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
8/22/2024 22:02	61501	EPET_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
8/22/2024 22:02	12807	MICK_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/22/2024 22:02	55101	WERT_T1	0	0	0	0	0	0	-2.63	-2.63	4	4	0	3000	3000	0
8/22/2024 22:02	60701	BREC_T1	2	0	-2	0.1	0	-0.1	-0.46	-0.5	1	1	0	600	600	0
8/22/2024 22:02	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
8/22/2024 22:02	43101	SMIL_T2	0	0	0	0	0	0	-0.59	-0.62	0	0	0	0	0	0
8/22/2024 22:02	20403	ASHF_T2	0	0	0	0	0	0	0.35	0.31	0	0	0	0	0	0
8/22/2024 22:03	60701	BREC_T1	2	0	-2	0.1	0	-0.1	-0.46	-0.5	1	1	0	600	600	0
8/22/2024 22:03	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
8/22/2024 22:03	43103	SMIL_T2	4	9	5	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
8/22/2024 22:03	67605	WARW_T1	23	13	-10	0.52	0.24	-0.28	-1.11	-1.1	0	0	0	0	0	0
8/22/2024 22:03	40902	JESH_T1	0	0	0	0	0	0	-0.71	-0.74	0	0	0	0	0	0
8/22/2024 22:03	45501	DERR_T2	0	1	1	0	0.3	0.3	0.13	-0.06	2	2	0	1800	1800	0
8/22/2024 22:03	44801	EDAN_T2	92	296	204	0.49	0.52	0.03	-1.61	-1.63	0	0	0	0	0	0
8/22/2024 22:03	44702	MUNC_T2	1	21	20	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
8/22/2024 22:03	44201	POIN_T1	0	0	0	0	0	0	-1.66	-1.67	2	2	0	2100	2100	0
8/22/2024 22:03	59003	MIFF_T1	0	0	0	0	0	0	0.6	0.47	0	0	0	0	0	0
8/22/2024 22:03	65802	RTWN_T2	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
8/22/2024 22:03	40901	JESH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/22/2024 22:03	52404	GRPA_T2	1	1	0	1	0.8	-0.2	-0.32	-0.33	0	0	0	0	0	0
8/22/2024 22:03	61502	EPET_T1	0	0	0	0	0	0	-0.8	-0.88	0	0	0	0	0	0
8/22/2024 22:03	10702	CATA_T2	0	1	1	0	0.1	0.1	-0.59	-0.51	0	0	0	0	0	0
8/22/2024 22:03	44701	MUNC_T2	4	216	212	0.13	0.21	0.08	0	0	0	0	0	0	0	0
8/22/2024 22:03	61803	EELI_T2	0	0	0	0	0	0	0.17	0.17	1	1	0	600	600	0
8/22/2024 22:03	42903	MIDD_T2	2	2	0	0.25	0.8	0.55	0	0	0	0	0	0	0	0
8/22/2024 22:03	45402	WBLO_T2	13	40	27	0.18	0.29	0.11	-0.69	-0.74	0	0	0	0	0	0
8/22/2024 22:03	42202	SHEN_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
8/22/2024 22:03	44301	BEAV_T2	0	0	0	0	0	0	0.11	0.35	1	1	0	600	600	0
8/22/2024 22:03	59002	MIFF_T1	5	6	1	0.32	0.2	-0.12	0	0	0	0	0	0	0	0
8/22/2024 22:03	44802	EDAN_T2	0	1	1	0	0	0	-0.6	-0.67	0	0	0	0	0	0
8/22/2024 22:03	43105	SMIL_T2	4	15	11	0.13	0.21	0.08	0	0	0	0	0	0	0	0
8/22/2024 22:03	15001	BLMO_T1	0	6	6	0	0.17	0.17	0	0	0	0	0	0	0	0
8/22/2024 22:03	14201	EALL_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
8/22/2024 22:03	43102	SMIL_T2	8	9	1	0.71	0.76	0.05	-0.82	-0.82	1	1	0	600	600	0
8/22/2024 22:03	44703	MUNC_T2	2	2	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
8/22/2024 22:03	63501	HEID_TBK1-2	55	55	0	1.49	1.82	0.33	0.46	0.46	0	0	0	0	0	0
8/22/2024 22:03	44302	BEAV_T2	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
8/22/2024 22:03	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/22/2024 22:03	52401	GRPA_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/22/2024 22:03	42201	SHEN_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
8/22/2024 22:03	52402	GRPA_T2	5	4	-1	0.94	0.73	-0.21	0	0	0	0	0	0	0	0
8/22/2024 22:03	52403	GRPA_T2	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
8/22/2024 22:03	42902	MIDD_T2	0	0	0	0	0	0	-1.07	-1.05	1	1	0	600	600	0
8/22/2024 22:04	60501	NMAN_T2	10	0	-10	0.11	0	-0.11	0	0	0	0	0	0	0	0
8/22/2024 22:04	43402	BENT_T1	0	3	3	0	0.1	0.1	0.02	0	0	0	0	0	0	0
8/22/2024 22:04	64204	KINZ_T1	2	1	-1	0.45	1.2	0.75	0	0	0	0	0	0	0	0
8/22/2024 22:04	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 22:04	11301	EMMA_T1	0	0	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
8/22/2024 22:04	10701	CATA_T2	0	0	0	0	0	0	-0.64	-0.66	1	1	0	1200	1200	0
8/22/2024 22:04	59201	THOM_T1	12	0	-12	0.19	0	-0.19	0	0	0	0	0	0	0	0
8/22/2024 22:04	45501	DERR_T2	0	1	1	0	0.3	0.3	0.13	-0.06	2	2	0	1800	1800	0
8/22/2024 22:04	43103	SMIL_T2	4	9	5	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
8/22/2024 22:04	43102	SMIL_T2	8	9	1	0.71	0.76	0.05	-1.64	-1.64	2	2	0	1200	1200	0
8/22/2024 22:04	57401	SPAN_T1	7	2	-5	0.4	0.8	0.4	-0.57	-0.85	1	1	0	600	600	0
8/22/2024 22:04	56501	ROCK_T2	2	3	1	0.85	0.37	-0.48	0.2	0.2	0	0	0	0	0	0
8/22/2024 22:04	59202	THOM_T1	36	5	-31	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
8/22/2024 22:04	46402	FLEM_T2	478	1145	667	0.31	0.66	0.35	-0.62	-0.66	0	0	0	0	0	0
8/22/2024 22:04	42903	MIDD_T2	2	2	0	0.25	0.8	0.55	0	0	0	0	0	0	0	0
8/22/2024 22:04	56504	ROCK_T2	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
8/22/2024 22:04	64202	KINZ_T1	3	3	0	0.53	0.63	0.1	0	0	0	0	0	0	0	0
8/22/2024 22:04	51306	WIND_T2	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
8/22/2024 22:04	57403	SPAN_T1	172	15	-157	0.63	0.2	-0.43	0	0	0	0	0	0	0	0
8/22/2024 22:04	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.74	0	0	0	0	0	0
8/22/2024 22:04	42902	MIDD_T2	0	0	0	0	0	0	-1.07	-1.05	1	1	0	600	600	0
8/22/2024 22:04	46102	MACI_T1	0	0	0	0	0	0	0.81	0.82	0	0	0	0	0	0
8/22/2024 22:04	64203	KINZ_T1	0	0	0	0	0	0	-0.03	0.03	1	1	0	600	600	0
8/22/2024 22:04	43105	SMIL_T2	4	15	11	0.13	0.21	0.08	0	0	0	0	0	0	0	0
8/22/2024 22:04	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
8/22/2024 22:04	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 22:04	46401	FLEM_T2	251	707	456	0.25	0.47	0.22	0	0	0	0	0	0	0	0
8/22/2024 22:04	60701	BREC_T1	2	0	-2	0.1	0	-0.1	-0.92	-1	2	2	0	1200	1200	0
8/22/2024 22:04	44301	BEAV_T2	0	0	0	0	0	0	0.11	0.35	1	1	0	600	600	0
8/22/2024 22:04	64201	KINZ_T1	5	1	-4	0.26	0.8	0.54	0	0	0	0	0	0	0	0
8/22/2024 22:05	52401	GRPA_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/22/2024 22:05	63602	LETO_T1	52	143	91	0.14	0.33	0.19	-0.25	-0.33	0	0	0	0	0	0
8/22/2024 22:05	52404	GRPA_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
8/22/2024 22:05	14403	SSLA_T1	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
8/22/2024 22:05	40601	PIGR_T1	1	0	-1	0.1	0	-0.1	-0.05	-0.14	0	0	0	0	0	0
8/22/2024 22:05	57401	SPAN_T1	7	2	-5	0.4	0.8	0.4	0	0	0	0	0	0	0	0
8/22/2024 22:05	56501	ROCK_T2	2	3	1	0.85	0.37	-0.48	0	0	0	0	0	0	0	0
8/22/2024 22:05	67605	WARW_T1	23	13	-10	0.52	0.24	-0.28	-1.11	-1.1	0	0	0	0	0	0
8/22/2024 22:05	55002	NEWP_T1	5	2	-3	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
8/22/2024 22:05	55001	NEWP_T1	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
8/22/2024 22:05	63304	GREE_T1	0	0	0	0	0	0	-0.3	-0.35	0	0	0	0	0	0
8/22/2024 22:05	53901	HALI_T2	1	1	0	1.3	0.7	-0.6	-1.17	-1.19	0	0	0	0	0	0
8/22/2024 22:05	12701	MACU_T1	0	4	4	0	0.5	0.5	0.1	0.11	0	0	0	0	0	0
8/22/2024 22:05	63303	GREE_T1	0	0	0	0	0	0	0.5	0.41	1	1	0	600	600	0
8/22/2024 22:05	65901	SAKR_T2	1	1	0	8.4	7.2	-1.2	0	0	0	0	0	0	0	0
8/22/2024 22:05	52402	GRPA_T2	5	4	-1	0.94	0.73	-0.21	-0.71	-0.74	0	0	0	0	0	0
8/22/2024 22:05	53802	MBRG_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
8/22/2024 22:05	67602	WARW_T2	0	0	0	0	0	0	1.08	1.3	0	0	0	0	0	0
8/22/2024 22:05	41001	LAUR_T2	0	75	75	0	0.28	0.28	0	0	0	0	0	0	0	0
8/22/2024 22:05	65904	SAKR_T2	0	0	0	0	0	0	-1.75	-1.56	2	2	0	900	900	0
8/22/2024 22:05	63305	GREE_T1	8	1	-7	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
8/22/2024 22:05	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
8/22/2024 22:05	57403	SPAN_T1	172	15	-157	0.63	0.2	-0.43	0.15	0.12	0	0	0	0	0	0
8/22/2024 22:05	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 22:05	40602	PIGR_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/22/2024 22:05	42802	SELI_T1	0	1	1	0	0.8	0.8	-1.22	-1.23	1	1	0	900	900	0
8/22/2024 22:05	53903	HALI_T2	2	2	0	1.7	1.2	-0.5	0	0	0	0	0	0	0	0
8/22/2024 22:05	63601	LETO_T1	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
8/22/2024 22:05	52403	GRPA_T2	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
8/22/2024 22:05	21501	CEAV_T2	0	0	0	0	0	0	1.19	1.14	0	0	0	0	0	0
8/22/2024 22:05	53501	EVIL_T2	1	2	1	0.6	0.9	0.3	-0.01	-0.01	1	1	0	600	600	0
8/22/2024 22:05	41002	LAUR_T2	1	44	43	2.4	0.28	-2.12	-0.91	-0.93	0	0	0	0	0	0
8/22/2024 22:05	14404	SSLA_T1	5	4	-1	2.44	2.23	-0.21	0	0	0	0	0	0	0	0
8/22/2024 22:05	56504	ROCK_T2	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
8/22/2024 22:06	42201	SHEN_T2	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
8/22/2024 22:06	52403	GRPA_T2	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
8/22/2024 22:06	58402	MORO_T1	0	0	0	0	0	0	-0.32	-0.36	2	2	0	1500	1500	0
8/22/2024 22:06	53901	HALI_T2	1	1	0	1.3	0.7	-0.6	-1.17	-1.19	0	0	0	0	0	0
8/22/2024 22:06	42802	SELI_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/22/2024 22:06	65502	MOJO_T2	3	0	-3	0.1	0	-0.1	-0.89	-0.94	0	0	0	0	0	0
8/22/2024 22:06	67804	WLAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 22:06	67803	WLAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 22:06	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 22:06	67802	WLAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 22:06	43103	SMIL_T2	4	9	5	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
8/22/2024 22:06	67805	WLAN_T1	350	503	153	0.2	0.34	0.14	-1.38	-1.45	0	0	0	0	0	0
8/22/2024 22:06	52404	GRPA_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
8/22/2024 22:06	41902	REED_T1	0	0	0	0	0	0	1.07	1.05	0	0	0	0	0	0
8/22/2024 22:06	60101	COCA_T1	0	0	0	0	0	0	0.62	0.65	0	0	0	0	0	0
8/22/2024 22:06	47502	NECO_T1	1	19	18	1.1	0.2	-0.9	0.82	0.81	0	0	0	0	0	0
8/22/2024 22:06	53501	EVIL_T2	1	2	1	0.6	0.9	0.3	-0.01	-0.01	1	1	0	600	600	0
8/22/2024 22:06	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
8/22/2024 22:06	63501	HEID_TBK1-2	55	55	0	1.49	1.82	0.33	0.46	0.42	0	0	0	0	0	0
8/22/2024 22:06	43102	SMIL_T2	8	9	1	0.71	0.76	0.05	-0.82	-0.28	1	1	0	600	600	0
8/22/2024 22:06	41901	REED_T1	9	8	-1	0.63	0.29	-0.34	0	0	0	0	0	0	0	0
8/22/2024 22:06	43105	SMIL_T2	4	15	11	0.13	0.21	0.08	0	0	0	0	0	0	0	0
8/22/2024 22:06	52401	GRPA_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/22/2024 22:06	56501	ROCK_T2	2	3	1	0.85	0.37	-0.48	0.4	0.4	0	0	0	0	0	0
8/22/2024 22:06	52402	GRPA_T2	5	4	-1	0.94	0.73	-0.21	-0.71	-0.74	0	0	0	0	0	0
8/22/2024 22:06	42202	SHEN_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
8/22/2024 22:06	53903	HALI_T2	2	2	0	1.7	1.2	-0.5	0	0	0	0	0	0	0	0
8/22/2024 22:06	42903	MIDD_T2	2	2	0	0.25	0.8	0.55	-1.29	-1.26	1	1	0	1200	1200	0
8/22/2024 22:06	55405	SHER_T1	11	11	0	0.55	0.54	-0.01	-0.17	-0.17	0	0	0	0	0	0
8/22/2024 22:06	44301	BEAV_T2	0	0	0	0	0	0	1.05	1.51	3	3	0	1800	1800	0
8/22/2024 22:06	57702	PAKT_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
8/22/2024 22:07	64202	KINZ_T1	3	3	0	0.53	0.63	0.1	0	0	0	0	0	0	0	0
8/22/2024 22:07	59201	THOM_T1	12	0	-12	0.19	0	-0.19	0	0	0	0	0	0	0	0
8/22/2024 22:07	64201	KINZ_T1	5	1	-4	0.26	0.8	0.54	0	0	0	0	0	0	0	0
8/22/2024 22:07	42802	SELI_T1	0	1	1	0	0.8	0.8	-1.23	-1.25	1	1	0	900	900	0
8/22/2024 22:07	44801	EDAN_T2	92	296	204	0.49	0.52	0.03	0	0	0	0	0	0	0	0
8/22/2024 22:07	40802	EXCH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 22:07	53802	MBRG_T2	0	0	0	0	0	0	0.04	-0.19	0	0	0	0	0	0
8/22/2024 22:07	64204	KINZ_T1	2	1	-1	0.45	1.2	0.75	0	0	0	0	0	0	0	0
8/22/2024 22:07	58705	ROSE_T2	5	5	0	2.98	2.3	-0.68	0	0	0	0	0	0	0	0
8/22/2024 22:07	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
8/22/2024 22:07	44802	EDAN_T2	0	1	1	0	0	0	-0.67	-0.69	0	0	0	0	0	0
8/22/2024 22:07	40801	EXCH_T2	0	0	0	0	0	0	0.85	0.83	0	0	0	0	0	0
8/22/2024 22:07	64203	KINZ_T1	0	0	0	0	0	0	0.03	-0.21	1	1	0	600	600	0
8/22/2024 22:07	67401	WAKE_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 22:07	59101	WALK_T2	0	0	0	0	0	0	3	2.8	0	0	0	0	0	0
8/22/2024 22:07	59202	THOM_T1	36	5	-31	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
8/22/2024 22:07	40602	PIGR_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/22/2024 22:07	40502	CRES_T2	6	4	-2	0.17	0.1	-0.07	-0.35	-0.39	0	0	0	0	0	0
8/22/2024 22:07	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 22:07	40101	HUNT_T2	0	0	0	0	0	0	-1.47	-1.52	0	0	0	0	0	0
8/22/2024 22:07	40601	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/22/2024 22:07	55101	WERT_T1	0	0	0	0	0	0	-2.63	-2.77	4	4	0	3000	3000	0
8/22/2024 22:07	58702	ROSE_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
8/22/2024 22:07	60701	BREC_T1	2	0	-2	0.1	0	-0.1	-0.5	-0.5	1	1	0	600	600	0
8/22/2024 22:07	58401	MORO_T1	0	0	0	0	0	0	-3.39	-3.48	3	3	0	1800	1800	0
8/22/2024 22:07	58701	ROSE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 22:08	49804	UNIV_T1	0	1	1	0	0.4	0.4	0.63	0.55	0	0	0	0	0	0
8/22/2024 22:08	49803	UNIV_T1	1	1	0	5	4.5	-0.5	-2.26	-2.38	0	0	0	0	0	0
8/22/2024 22:08	42902	MIDD_T2	0	0	0	0	0	0	-1.05	-1.02	1	1	0	600	600	0
8/22/2024 22:08	41902	REED_T1	0	0	0	0	0	0	1.07	1.05	0	0	0	0	0	0
8/22/2024 22:08	45501	DERR_T2	0	1	1	0	0.3	0.3	-0.12	0.26	4	4	0	3600	3600	0
8/22/2024 22:08	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 22:08	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 22:08	41901	REED_T1	9	8	-1	0.63	0.29	-0.34	0	0	0	0	0	0	0	0
8/22/2024 22:08	47401	PENS_T1	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
8/22/2024 22:08	42903	MIDD_T2	2	2	0	0.25	0.8	0.55	0	0	0	0	0	0	0	0
8/22/2024 22:08	42802	SELI_T1	0	1	1	0	0.8	0.8	-1.23	-1.25	1	1	0	900	900	0
8/22/2024 22:09	57201	ROSS_T1	9	0	-9	0.12	0	-0.12	-0.35	-0.39	0	0	0	0	0	0
8/22/2024 22:09	53501	EVIL_T2	1	2	1	0.6	0.9	0.3	-0.01	-0.01	1	1	0	600	600	0
8/22/2024 22:09	53601	DALM_T2	1	1	0	0.8	0.8	0	0.08	0.41	0	0	0	0	0	0
8/22/2024 22:09	41901	REED_T1	9	8	-1	0.63	0.29	-0.34	0	0	0	0	0	0	0	0
8/22/2024 22:10	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22/2024 22:10	46401	FLEM_T2	251	707	456	0.25	0.47	0.22	0	0	0	0	0	0	0	0
8/22/2024 22:10	60701	BREC_T1	2	0	-2	0.1	0	-0.1	-0.5	-0.5	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/22/2024 22:10	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	-0.17	-0.21	0	0	0	0	0	0
8/22/2024 22:10	53903	HALI_T2	2	2	0	1.7	1.2	-0.5	-0.13	-0.14	0	0	0	0	0	0
8/22/2024 22:10	46402	FLEM_T2	478	1145	667	0.31	0.66	0.35	-0.66	-0.71	0	0	0	0	0	0
8/22/2024 22:10	53901	HALI_T2	1	1	0	1.3	0.7	-0.6	0	0	0	0	0	0	0	0
8/22/2024 22:11	44301	BEAV_T2	0	0	0	0	0	0	0.35	0.5	1	1	0	600	600	0
8/22/2024 22:11	45501	DERR_T2	0	1	1	0	0.3	0.3	-0.06	0.13	2	2	0	1800	1800	0
8/22/2024 22:11	53501	EVIL_T2	1	2	1	0.6	0.9	0.3	-0.01	-0.01	1	1	0	600	600	0
8/22/2024 22:15	57205	ROSS_T1	0	0	0	0	0	0	0.21	0.16	0	0	0	0	0	0
8/22/2024 22:15	56501	ROCK_T2	3	3	0	0.43	0.1	-0.33	0.2	0.13	0	0	0	0	0	0
8/22/2024 22:16	51004	NHAR_T1	1	1	0	5.8	6	0.2	-1.23	-1.25	0	0	0	0	0	0
8/22/2024 22:16	51002	NHAR_T1	1	1	0	1.6	1.2	-0.4	0	0	0	0	0	0	0	0
8/22/2024 22:17	67605	WARW_T1	12	10	-2	0.24	0.26	0.02	-1.1	-1.13	0	0	0	0	0	0
8/22/2024 22:18	67605	WARW_T1	12	10	-2	0.24	0.26	0.02	-1.1	-1.13	0	0	0	0	0	0
8/22/2024 22:28	44801	EDAN_T2	174	306	132	0.5	0.53	0.03	-1.62	-1.63	0	0	0	0	0	0
8/22/2024 22:28	44802	EDAN_T2	1	0	-1	10	0	-10	0	0	0	0	0	0	0	0
8/22/2024 22:35	44201	POIN_T1	0	0	0	0	0	0	-1.69	-1.67	2	2	0	2100	2100	0
8/22/2024 22:52	43105	SMIL_T2	13	16	3	0.19	0.23	0.04	0	0	0	0	0	0	0	0
8/22/2024 22:52	43108	SMIL_T2	3	1	-2	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
8/22/2024 22:52	43103	SMIL_T2	20	18	-2	0.49	0.89	0.4	0	0	0	0	0	0	0	0
8/22/2024 22:52	43106	SMIL_T2	0	0	0	0	0	0	-0.22	-0.18	1	1	0	1200	1200	0
8/22/2024 22:52	43102	SMIL_T2	6	8	2	0.63	0.66	0.03	0	0	0	0	0	0	0	0
8/22/2024 22:58	14203	EALL_T1	0	0	0	0	0	0	-0.29	-0.29	1	1	0	1200	1200	0
8/22/2024 23:05	63305	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/22/2024 23:05	63302	GREE_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
8/23/2024 2:35	60701	BREC_T1	0	0	0	0	0	0	0.09	0.14	0	0	0	0	0	0
8/23/2024 5:05	63201	MGTN_T2	0	0	0	0	0	0	-0.16	-0.15	1	1	0	600	600	0
8/23/2024 5:05	65901	SAKR_T2	1	1	0	9.1	8.9	-0.2	-1.43	-1.32	1	1	0	900	900	0
8/23/2024 7:09	29401	BELT_T1	0	1	1	0	0	0	0	0	1	1	0	900	900	0
8/23/2024 7:09	29402	BELT_T1	1	1	0	8.6	8.6	0	0	0	0	0	0	0	0	0
8/23/2024 7:16	50103	HARR_T3	0	2	2	0	0.35	0.35	0	0	1	1	0	1200	1200	0
8/23/2024 7:16	50105	HARR_T3	6	6	0	7.12	6.6	-0.52	0	0	0	0	0	0	0	0
8/23/2024 7:16	50107	HARR_T3	1	1	0	6.4	5.9	-0.5	0	0	0	0	0	0	0	0
8/23/2024 7:16	50201	HARR_T3	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/23/2024 7:24	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 7:25	67804	WLAN_T1	0	0	0	0	0	0	-1.14	-1.12	0	0	0	0	0	0
8/23/2024 7:26	67804	WLAN_T1	0	0	0	0	0	0	-1.14	-1.12	0	0	0	0	0	0
8/23/2024 7:26	67503	WEWI_T2	1	1	0	9.2	9	-0.2	-0.3	-0.3	0	0	0	0	0	0
8/23/2024 7:29	40504	CRES_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
8/23/2024 7:30	54505	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/23/2024 7:30	54502	ENOL_T2	1	1	0	0.2	0	-0.2	-1.16	-1.15	1	1	0	600	600	0
8/23/2024 7:39	10102	ALLE_T2	1	1	0	6.4	6.7	0.3	0	0	0	0	0	0	0	0
8/23/2024 7:39	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 7:40	62104	ELAN_T1	0	0	0	0	0	0	0.51	0.51	1	1	0	1200	1200	0
8/23/2024 7:41	54502	ENOL_T2	1	1	0	0.2	0	-0.2	-1.15	-1.15	1	1	0	600	600	0
8/23/2024 7:41	54505	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/23/2024 7:42	48902	FOSP_T2	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
8/23/2024 7:42	54502	ENOL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/23/2024 7:42	46004	BERW_T2	0	0	0	0	0	0	-0.63	-0.54	0	0	0	0	0	0
8/23/2024 7:42	54505	ENOL_T2	1	0	-1	0.2	0	-0.2	-1.36	-1.36	1	1	0	600	600	0
8/23/2024 7:43	11903	ETEX_T1	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
8/23/2024 7:43	62104	ELAN_T1	0	0	0	0	0	0	0.51	0.51	1	1	0	1200	1200	0
8/23/2024 7:45	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 7:45	48902	FOSP_T2	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
8/23/2024 7:45	54505	ENOL_T2	0	1	1	0	0.5	0.5	-1.36	-1.36	1	1	0	600	600	0
8/23/2024 7:47	50201	HARR_T3	1	1	0	0.7	0.8	0.1	-1.01	-0.98	1	1	0	1200	1200	0
8/23/2024 7:47	50103	HARR_T3	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
8/23/2024 7:47	50107	HARR_T3	1	2	1	5.9	5.6	-0.3	0	0	0	0	0	0	0	0
8/23/2024 7:47	12006	HATF_T1	0	0	0	0	0	0	0.44	0.56	1	1	0	1200	1200	0
8/23/2024 7:47	50105	HARR_T3	6	6	0	6.6	6.38	-0.22	0	0	0	0	0	0	0	0
8/23/2024 7:47	40101	HUNT_T2	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
8/23/2024 7:48	64802	MONE_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
8/23/2024 7:48	64903	MILL_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
8/23/2024 7:48	64801	MONE_T2	1	1	0	0.9	0.8	-0.1	0.19	0.19	0	0	0	0	0	0
8/23/2024 7:48	48301	ORWI_T1	2	2	0	5	5.1	0.1	-1.12	-1.03	2	2	0	1800	1800	0
8/23/2024 7:49	13303	ORVI_T1	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
8/23/2024 7:50	13303	ORVI_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
8/23/2024 7:51	53601	DALM_T2	1	2	1	0.2	0.4	0.2	0.34	0.57	0	0	0	0	0	0
8/23/2024 7:53	67804	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 7:53	67503	WEWI_T2	1	1	0	9	9.2	0.2	-0.28	-0.25	0	0	0	0	0	0
8/23/2024 7:53	66505	SMAN_T2	0	0	0	0	0	0	0.48	0.61	1	1	0	900	900	0
8/23/2024 7:53	67801	WLAN_T1	0	0	0	0	0	0	1.02	0.17	0	0	0	0	0	0
8/23/2024 7:55	10103	ALLE_T3	1	1	0	9.4	3.1	-6.3	0	0	0	0	0	0	0	0
8/23/2024 7:55	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 7:55	67804	WLAN_T1	0	1	1	0	0	0	-1.13	-1.12	0	0	0	0	0	0
8/23/2024 7:56	44801	EDAN_T2	39	163	124	0.27	0.56	0.29	-1.71	-1.68	0	0	0	0	0	0
8/23/2024 7:56	67803	WLAN_T1	0	0	0	0	0	0	-0.91	-0.91	0	0	0	0	0	0
8/23/2024 7:56	67804	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 7:57	67804	WLAN_T1	0	1	1	0	0	0	-1.13	-1.12	0	0	0	0	0	0
8/23/2024 7:57	67803	WLAN_T1	0	0	0	0	0	0	-0.91	-0.91	0	0	0	0	0	0
8/23/2024 7:57	44801	EDAN_T2	39	163	124	0.27	0.56	0.29	-1.71	-1.68	0	0	0	0	0	0
8/23/2024 7:58	29401	BELT_T1	24	3	-21	0.11	0.13	0.02	0	0	0	0	0	0	0	0
8/23/2024 7:58	29402	BELT_T1	1	1	0	9.4	9.3	-0.1	0	0	0	0	0	0	0	0
8/23/2024 8:00	23401	HONE_T2	0	0	0	0	0	0	-0.02	-0.15	0	0	0	0	0	0
8/23/2024 8:05	48301	ORWI_T1	2	2	0	5.1	5	-0.1	-0.52	-0.48	1	1	0	900	900	0
8/23/2024 8:06	47402	PENS_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/23/2024 8:06	47401	PENS_T1	0	2	2	0	0.4	0.4	1.01	0.99	0	0	0	0	0	0
8/23/2024 8:07	43301	WATS_T2	1	1	0	0.2	0.2	0	-0.66	-0.66	1	1	0	900	900	0
8/23/2024 8:08	45901	AUBU_T1	0	0	0	0	0	0	1.85	1.8	0	0	0	0	0	0
8/23/2024 8:10	51604	DUKE_T2	0	0	0	0	0	0	-1.9	-1.92	0	0	0	0	0	0
8/23/2024 8:14	51604	DUKE_T2	0	0	0	0	0	0	-1.9	-1.92	0	0	0	0	0	0
8/23/2024 8:18	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/23/2024 8:21	59202	THOM_T1	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/23/2024 8:21	60502	NMAN_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
8/23/2024 8:22	59202	THOM_T1	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/23/2024 8:24	59101	WALK_T2	1	1	0	2.1	1.1	-1	3.14	2.98	0	0	0	0	0	0
8/23/2024 8:24	57002	WHHI_T2	0	0	0	0	0	0	-1.48	-1.39	1	1	0	1200	1200	0
8/23/2024 8:26	67502	WEWI_T2	0	1	1	0	0.3	0.3	-0.39	-0.38	0	0	0	0	0	0
8/23/2024 8:26	67503	WEWI_T2	1	1	0	9.2	9	-0.2	0	0	0	0	0	0	0	0
8/23/2024 8:27	44301	BEAV_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
8/23/2024 8:28	63401	HONY_T1	0	0	0	0	0	0	0.12	0.16	1	1	0	600	600	0
8/23/2024 8:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 8:29	63403	HONY_T2	0	0	0	0	0	0	-0.15	0.04	1	1	0	600	600	0
8/23/2024 8:29	40901	JESH_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/23/2024 8:29	40902	JESH_T1	0	0	0	0	0	0	-1.13	-0.55	1	0	-1	600	0	-600
8/23/2024 8:30	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 8:32	15603	NSTR_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
8/23/2024 8:33	60502	NMAN_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
8/23/2024 8:33	63401	HONY_T1	0	0	0	0	0	0	0.12	0.16	1	1	0	600	600	0
8/23/2024 8:34	40901	JESH_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
8/23/2024 8:34	51904	COPA_T1	5	5	0	1.28	1.1	-0.18	0	0	0	0	0	0	0	0
8/23/2024 8:34	51906	COPA_T1	0	0	0	0	0	0	-1.08	-1.13	2	2	0	1500	1500	0
8/23/2024 8:34	40902	JESH_T1	0	0	0	0	0	0	-1.13	-0.55	1	0	-1	600	0	-600
8/23/2024 8:35	66903	SHIL_T2	0	1	1	0	0.2	0.2	-0.88	-0.86	0	0	0	0	0	0
8/23/2024 8:35	66901	SHIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 8:36	57403	SPAN_T1	32	26	-6	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
8/23/2024 8:36	66903	SHIL_T2	0	1	1	0	0.2	0.2	-0.86	-0.85	0	0	0	0	0	0
8/23/2024 8:36	66901	SHIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 8:36	57401	SPAN_T1	5	5	0	0.6	0.52	-0.08	-0.93	-0.89	1	1	0	600	600	0
8/23/2024 8:36	60502	NMAN_T2	0	0	0	0	0	0	-0.3	-0.23	0	0	0	0	0	0
8/23/2024 8:38	57401	SPAN_T1	5	5	0	0.6	0.52	-0.08	-0.89	-0.89	1	1	0	600	600	0
8/23/2024 8:38	57403	SPAN_T1	32	26	-6	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
8/23/2024 8:39	57101	SPHI_T2	6	6	0	1.33	1.3	-0.03	0.32	0.33	0	0	0	0	0	0
8/23/2024 8:39	57106	SPHI_T2	3	3	0	1.6	1.37	-0.23	0	0	0	0	0	0	0	0
8/23/2024 8:41	62607	ENGL_T1	0	0	0	0	0	0	-1.07	-1.04	1	1	0	300	300	0
8/23/2024 8:42	67804	WLAN_T1	0	0	0	0	0	0	-1.1	-1.09	0	0	0	0	0	0
8/23/2024 8:43	56501	ROCK_T2	3	3	0	0.6	0.5	-0.1	0.06	0.08	0	0	0	0	0	0
8/23/2024 8:44	63501	HEID_TBK1-2	55	55	0	1.47	1.43	-0.04	1.24	1.2	0	0	0	0	0	0
8/23/2024 8:45	46402	FLEM_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/23/2024 8:45	46401	FLEM_T2	1	4	3	0.4	0.38	-0.02	-0.54	-0.55	0	0	0	0	0	0
8/23/2024 8:46	40601	PIGR_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/23/2024 8:46	40602	PIGR_T1	1	1	0	1.6	1.7	0.1	-0.01	0.02	0	0	0	0	0	0
8/23/2024 8:48	65005	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 8:48	65004	NEFF_T2	0	0	0	0	0	0	-1.06	-1.02	0	0	0	0	0	0
8/23/2024 8:49	46301	ROHR_T1	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
8/23/2024 8:49	46302	ROHR_T1	4	4	0	1.45	1.5	0.05	0.12	0.11	0	0	0	0	0	0
8/23/2024 8:50	46302	ROHR_T1	4	4	0	1.45	1.5	0.05	0.12	0.11	0	0	0	0	0	0
8/23/2024 8:50	46301	ROHR_T1	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
8/23/2024 8:50	47001	HUGH_T2	3	3	0	6.37	6.8	0.43	-0.11	-0.08	0	0	0	0	0	0
8/23/2024 8:51	64101	REFR_T1	0	0	0	0	0	0	0.07	-0.08	0	0	0	0	0	0
8/23/2024 8:52	67106	SPRI_T2	0	0	0	0	0	0	-3.58	-3.56	4	4	0	3000	3000	0
8/23/2024 8:54	29401	BELT_T1	0	4	4	0	0.1	0.1	0	0	1	1	0	900	900	0
8/23/2024 8:54	29402	BELT_T1	2	1	-1	4.7	9	4.3	0	0	0	0	0	0	0	0
8/23/2024 8:54	20403	ASHF_T2	0	0	0	0	0	0	1.49	1.24	0	0	0	0	0	0
8/23/2024 8:56	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/23/2024 8:56	15702	TANN_T2	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
8/23/2024 8:56	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
8/23/2024 8:57	67804	WLAN_T1	0	0	0	0	0	0	-1.09	-1.07	0	0	0	0	0	0
8/23/2024 8:57	46001	BERW_T1	0	0	0	0	0	0	-1.03	-1.03	0	0	0	0	0	0
8/23/2024 8:57	20403	ASHF_T2	0	0	0	0	0	0	1.49	1.24	0	0	0	0	0	0
8/23/2024 8:59	46004	BERW_T2	0	16	16	0	0	0	-0.57	-0.56	0	0	0	0	0	0
8/23/2024 8:59	46803	HEPB_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
8/23/2024 8:59	46801	HEPB_T2	2	2	0	0.65	0.75	0.1	0	0	0	0	0	0	0	0
8/23/2024 8:59	11507	FREE_T2	0	0	0	0	0	0	1.02	0.89	0	0	0	0	0	0
8/23/2024 8:59	65702	RVIL_T2	0	0	0	0	0	0	-0.53	-0.52	1	1	0	600	600	0
8/23/2024 9:00	16006	DORN_T2	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
8/23/2024 9:01	16006	DORN_T2	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
8/23/2024 9:01	42902	MIDD_T2	1	0	-1	0.1	0	-0.1	0.36	0.36	0	0	0	0	0	0
8/23/2024 9:01	42903	MIDD_T2	2	2	0	1.3	1.35	0.05	0	0	0	0	0	0	0	0
8/23/2024 9:02	40101	HUNT_T2	2	2	0	0.45	0.45	0	-0.11	-0.11	0	0	0	0	0	0
8/23/2024 9:05	66504	SMAN_T2	0	0	0	0	0	0	-0.4	-0.21	0	0	0	0	0	0
8/23/2024 9:05	66502	SMAN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/23/2024 9:06	67203	TEHI_T1	0	1	1	0	0	0	2.21	2.62	3	3	0	2100	2100	0
8/23/2024 9:06	42902	MIDD_T2	1	0	-1	0.1	0	-0.1	0.36	0.35	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/23/2024 9:06	42903	MIDD_T2	2	2	0	1.3	1.35	0.05	0	0	0	0	0	0	0	0
8/23/2024 9:06	55408	SHER_T2	1	1	0	2.7	1.7	-1	-0.94	-0.94	1	0	-1	1200	0	-1200
8/23/2024 9:08	66504	SMAN_T2	0	0	0	0	0	0	-0.11	-0.24	0	0	0	0	0	0
8/23/2024 9:08	45902	AUBU_T1	0	0	0	0	0	0	-0.52	-0.48	1	1	0	600	600	0
8/23/2024 9:08	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 9:08	67605	WARW_T1	10	16	6	0.54	0.53	-0.01	0	0	0	0	0	0	0	0
8/23/2024 9:08	66502	SMAN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/23/2024 9:08	17002	RIRO_T2	93	35	-58	0.16	0.19	0.03	0.66	0.69	0	0	0	0	0	0
8/23/2024 9:10	67605	WARW_T1	10	16	6	0.54	0.53	-0.01	-1.15	-1.11	0	0	0	0	0	0
8/23/2024 9:15	40101	HUNT_T2	2	2	0	0.6	0.35	-0.25	-0.11	-0.17	0	0	0	0	0	0
8/23/2024 9:19	44203	POIN_T2	0	0	0	0	0	0	0.69	0.83	1	1	0	900	900	0
8/23/2024 9:19	44202	POIN_T2	1	1	0	2.1	1.6	-0.5	0	0	0	0	0	0	0	0
8/23/2024 9:20	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.05	0	0	0	0	0	0
8/23/2024 9:21	57401	SPAN_T1	6	6	0	0.72	0.63	-0.09	-0.86	-0.87	1	1	0	600	600	0
8/23/2024 9:21	57403	SPAN_T1	63	27	-36	0.23	0.23	0	0	0	0	0	0	0	0	0
8/23/2024 9:21	67002	STHI_T2	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
8/23/2024 9:21	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
8/23/2024 9:22	57403	SPAN_T1	63	27	-36	0.23	0.23	0	0	0	0	0	0	0	0	0
8/23/2024 9:22	42201	SHEN_T2	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
8/23/2024 9:22	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
8/23/2024 9:22	57401	SPAN_T1	6	6	0	0.72	0.63	-0.09	-0.87	-0.95	1	1	0	600	600	0
8/23/2024 9:23	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
8/23/2024 9:23	67002	STHI_T2	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
8/23/2024 9:24	64101	REFR_T1	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
8/23/2024 9:24	57403	SPAN_T1	63	27	-36	0.23	0.23	0	0	0	0	0	0	0	0	0
8/23/2024 9:24	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 9:24	57401	SPAN_T1	6	6	0	0.72	0.63	-0.09	-0.87	-0.95	1	1	0	600	600	0
8/23/2024 9:26	57403	SPAN_T1	63	27	-36	0.23	0.23	0	0	0	0	0	0	0	0	0
8/23/2024 9:26	20403	ASHF_T2	0	2	2	0	0.2	0.2	1.56	1.5	0	0	0	0	0	0
8/23/2024 9:26	57401	SPAN_T1	6	6	0	0.72	0.63	-0.09	-0.87	-0.95	1	1	0	600	600	0
8/23/2024 9:26	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 9:27	20403	ASHF_T2	0	2	2	0	0.2	0.2	1.56	1.5	0	0	0	0	0	0
8/23/2024 9:27	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 9:30	64202	KINZ_T1	3	3	0	1	0.57	-0.43	0	0	0	0	0	0	0	0
8/23/2024 9:30	64203	KINZ_T1	0	0	0	0	0	0	0.83	0.81	1	1	0	600	600	0
8/23/2024 9:30	64204	KINZ_T1	58	56	-2	0.38	0.37	-0.01	0	0	0	0	0	0	0	0
8/23/2024 9:32	64202	KINZ_T1	3	3	0	1	0.57	-0.43	0	0	0	0	0	0	0	0
8/23/2024 9:32	64204	KINZ_T1	58	56	-2	0.38	0.37	-0.01	0	0	0	0	0	0	0	0
8/23/2024 9:32	64203	KINZ_T1	0	0	0	0	0	0	0.83	0.81	1	1	0	600	600	0
8/23/2024 9:33	64204	KINZ_T1	58	56	-2	0.38	0.37	-0.01	0	0	0	0	0	0	0	0
8/23/2024 9:33	60504	NMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/23/2024 9:33	64203	KINZ_T1	0	0	0	0	0	0	0.83	0.81	1	1	0	600	600	0
8/23/2024 9:33	64202	KINZ_T1	3	3	0	1	0.57	-0.43	0	0	0	0	0	0	0	0
8/23/2024 9:33	60502	NMAN_T2	0	0	0	0	0	0	-0.12	-0.01	0	0	0	0	0	0
8/23/2024 9:34	64204	KINZ_T1	58	56	-2	0.38	0.37	-0.01	0	0	0	0	0	0	0	0
8/23/2024 9:34	64202	KINZ_T1	3	3	0	1	0.57	-0.43	0	0	0	0	0	0	0	0
8/23/2024 9:34	64203	KINZ_T1	0	0	0	0	0	0	0.83	0.81	1	1	0	600	600	0
8/23/2024 9:38	64801	MONE_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/23/2024 9:38	64802	MONE_T2	1	1	0	0.1	0.8	0.7	0.32	0.34	0	0	0	0	0	0
8/23/2024 9:39	40201	BEGA_T2	2	2	0	0.1	0.35	0.25	0	0	0	0	0	0	0	0
8/23/2024 9:40	62102	ELAN_T1	0	0	0	0	0	0	0.71	0.65	0	0	0	0	0	0
8/23/2024 9:40	40201	BEGA_T2	2	2	0	0.1	0.35	0.25	0	0	0	0	0	0	0	0
8/23/2024 9:40	62105	ELAN_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/23/2024 9:41	57403	SPAN_T1	21	27	6	0.23	0.23	0	0	0	0	0	0	0	0	0
8/23/2024 9:41	57401	SPAN_T1	5	7	2	0.58	0.56	-0.02	-0.95	-0.89	1	1	0	600	600	0
8/23/2024 9:42	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 9:42	45902	AUBU_T1	0	0	0	0	0	0	-0.71	-0.78	2	2	0	1200	1200	0
8/23/2024 9:42	29401	BELT_T1	6	1	-5	0.12	0.2	0.08	0	0	0	0	0	0	0	0
8/23/2024 9:42	29402	BELT_T1	2	2	0	4.35	4.45	0.1	0	0	0	0	0	0	0	0
8/23/2024 9:42	48302	ORWI_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/23/2024 9:43	64602	LEOI_T1	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
8/23/2024 9:43	20601	GRWO_T2	0	4	4	0	0.5	0.5	1.29	1.28	0	0	0	0	0	0
8/23/2024 9:44	20601	GRWO_T2	0	4	4	0	0.5	0.5	1.29	1.28	0	0	0	0	0	0
8/23/2024 9:47	16402	MOPO_T1	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
8/23/2024 9:48	16402	MOPO_T1	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
8/23/2024 9:49	66502	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/23/2024 9:49	66505	SMAN_T2	0	0	0	0	0	0	0.74	0.86	1	1	0	900	900	0
8/23/2024 9:49	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 9:49	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/23/2024 9:50	55001	NEWP_T1	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
8/23/2024 9:50	55002	NEWP_T1	9	9	0	0.64	0.92	0.28	0	0	0	0	0	0	0	0
8/23/2024 9:53	60502	NMAN_T2	0	0	0	0	0	0	-0.05	-0.1	0	0	0	0	0	0
8/23/2024 9:53	60504	NMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/23/2024 9:54	67605	WARW_T1	13	9	-4	0.55	0.53	-0.02	-1.07	-1.03	0	0	0	0	0	0
8/23/2024 9:58	45802	HEGI_T2	41	2	-39	0.79	0.2	-0.59	1.02	1.19	0	0	0	0	0	0
8/23/2024 9:59	53902	HALI_T2	2	3	1	2.85	2.03	-0.82	0	0	0	0	0	0	0	0
8/23/2024 9:59	53903	HALI_T2	3	3	0	0.77	1.07	0.3	0	0	0	0	0	0	0	0
8/23/2024 9:59	53901	HALI_T2	1	1	0	0.9	1.3	0.4	-2.44	-2.38	0	0	0	0	0	0
8/23/2024 10:00	59201	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/23/2024 10:00	59001	MIFF_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
8/23/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	0.56	0.61	0	0	0	0	0	0
8/23/2024 10:00	40901	JESH_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
8/23/2024 10:00	53902	HALI_T2	3	3	0	2.03	2.1	0.07	0	0	0	0	0	0	0	0
8/23/2024 10:00	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.07	-0.12	0	0	0	0	0	0
8/23/2024 10:00	66502	SMAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/23/2024 10:00	67502	WEWI_T2	2	2	0	0.6	0.85	0.25	0	0	0	0	0	0	0	0
8/23/2024 10:00	66505	SMAN_T2	0	0	0	0	0	0	0.86	0.97	1	1	0	900	900	0
8/23/2024 10:00	53901	HALI_T2	1	1	0	1.3	1.2	-0.1	-3.66	-3.57	0	0	0	0	0	0
8/23/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.19	-0.38	0	0	0	0	0	0
8/23/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.42	0.38	0	0	0	0	0	0
8/23/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.43	0.49	0	0	0	0	0	0
8/23/2024 10:00	17002	RIRO_T2	25	8	-17	0.23	0.53	0.3	0.69	0.77	0	0	0	0	0	0
8/23/2024 10:00	59002	MIFF_T1	5	4	-1	0.18	0.23	0.05	0	0	0	0	0	0	0	0
8/23/2024 10:00	45802	HEGI_T2	2	1	-1	0.2	0.2	0	1.02	1.19	0	0	0	0	0	0
8/23/2024 10:00	60504	NMAN_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
8/23/2024 10:00	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/23/2024 10:00	66501	SMAN_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
8/23/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.17	-0.11	0	0	0	0	0	0
8/23/2024 10:00	28102	TWLA_T2	0	2	2	0	0.15	0.15	0.2	0.2	0	0	0	0	0	0
8/23/2024 10:00	42802	SELI_T1	1	1	0	0.2	0.2	0	-0.95	-1	1	1	0	900	900	0
8/23/2024 10:00	48301	ORWI_T1	2	2	0	4.1	3.7	-0.4	-0.97	-0.61	3	3	0	2700	2700	0
8/23/2024 10:00	67503	WEWI_T2	2	1	-1	4.2	8.1	3.9	-0.14	-0.15	0	0	0	0	0	0
8/23/2024 10:00	59202	THOM_T1	2	4	2	0.2	0.35	0.15	0	0	0	0	0	0	0	0
8/23/2024 10:00	53903	HALI_T2	3	3	0	0.9	1.07	0.17	0	0	0	0	0	0	0	0
8/23/2024 10:06	29401	BELT_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/23/2024 10:06	29402	BELT_T1	0	249	249	0	0.78	0.78	0	0	0	0	0	0	0	0
8/23/2024 10:07	55101	WERT_T1	0	0	0	0	0	0	-1.35	-1.32	3	3	0	2400	2400	0
8/23/2024 10:08	60502	NMAN_T2	0	0	0	0	0	0	-0.1	-0.14	0	0	0	0	0	0
8/23/2024 10:08	15204	SFAR_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
8/23/2024 10:08	42802	SELI_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/23/2024 10:08	15203	SFAR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/23/2024 10:08	42801	SELI_T1	0	0	0	0	0	0	-1.61	-1.45	1	1	0	1200	1200	0
8/23/2024 10:08	20401	ASHF_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
8/23/2024 10:08	60504	NMAN_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
8/23/2024 10:08	20403	ASHF_T2	1	1	0	0.2	0.3	0.1	1.57	1.46	0	0	0	0	0	0
8/23/2024 10:09	20401	ASHF_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
8/23/2024 10:09	53903	HALI_T2	3	3	0	0.9	1.07	0.17	0	0	0	0	0	0	0	0
8/23/2024 10:09	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.24	-0.21	0	0	0	0	0	0
8/23/2024 10:09	66501	SMAN_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
8/23/2024 10:09	53902	HALI_T2	3	3	0	2.03	2.1	0.07	0	0	0	0	0	0	0	0
8/23/2024 10:09	57401	SPAN_T1	7	7	0	0.5	0.5	0	-1.86	-1.74	2	2	0	1200	1200	0
8/23/2024 10:09	20403	ASHF_T2	1	1	0	0.2	0.3	0.1	1.57	1.46	0	0	0	0	0	0
8/23/2024 10:09	67201	TEHI_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/23/2024 10:09	66502	SMAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/23/2024 10:09	53901	HALI_T2	1	1	0	1.3	1.2	-0.1	-1.19	-1.17	0	0	0	0	0	0
8/23/2024 10:09	57403	SPAN_T1	12	14	2	0.22	0.21	-0.01	0.11	0.13	0	0	0	0	0	0
8/23/2024 10:09	67203	TEHI_T1	1	2	1	0.3	0	-0.3	2.72	2.63	3	3	0	2100	2100	0
8/23/2024 10:10	10801	CHHI_T1	4	8	4	0.75	0.45	-0.3	-1.13	-1.14	2	2	0	1500	1500	0
8/23/2024 10:10	67605	WARW_T1	9	9	0	0.53	0.47	-0.06	-1.03	-1.04	0	0	0	0	0	0
8/23/2024 10:10	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 10:11	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 10:11	46001	BERW_T1	0	0	0	0	0	0	-0.94	-0.93	0	0	0	0	0	0
8/23/2024 10:11	67605	WARW_T1	9	9	0	0.53	0.47	-0.06	-1.03	-1.04	0	0	0	0	0	0
8/23/2024 10:11	40201	BEGA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/23/2024 10:12	62102	ELAN_T1	0	1	1	0	1.1	1.1	0.71	0.77	0	0	0	0	0	0
8/23/2024 10:12	62105	ELAN_T1	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/23/2024 10:12	16102	BING_T2	0	0	0	0	0	0	1.38	1.36	0	0	0	0	0	0
8/23/2024 10:13	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 10:13	67605	WARW_T1	9	9	0	0.53	0.47	-0.06	-1.03	-1.04	0	0	0	0	0	0
8/23/2024 10:13	11507	FREE_T2	1	1	0	0	0	0	1.08	0.96	0	0	0	0	0	0
8/23/2024 10:14	45902	AUBU_T1	0	1	1	0	0.4	0.4	-0.39	-0.41	1	1	0	600	600	0
8/23/2024 10:14	45802	HEGI_T2	2	1	-1	0.2	0.2	0	1.19	0.97	0	0	0	0	0	0
8/23/2024 10:14	47001	HUGH_T2	3	3	0	7.17	7.3	0.13	-0.08	-0.05	0	0	0	0	0	0
8/23/2024 10:14	16402	MOPO_T1	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
8/23/2024 10:14	23201	HIRU_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
8/23/2024 10:14	23202	HIRU_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
8/23/2024 10:15	20601	GRWO_T2	1	35	34	0.2	0.24	0.04	1.29	1.33	0	0	0	0	0	0
8/23/2024 10:15	28403	HART_T2	0	0	0	0	0	0	-0.9	-0.85	1	1	0	900	900	0
8/23/2024 10:15	41902	REED_T1	0	0	0	0	0	0	1.12	1.15	0	0	0	0	0	0
8/23/2024 10:15	47001	HUGH_T2	3	3	0	7.17	7.3	0.13	-0.08	-0.05	0	0	0	0	0	0
8/23/2024 10:15	65901	SAKR_T2	1	1	0	7.8	7.9	0.1	0	0	0	0	0	0	0	0
8/23/2024 10:15	65904	SAKR_T2	0	1	1	0	0.1	0.1	-1.71	-1.66	2	2	0	900	900	0
8/23/2024 10:16	40101	HUNT_T2	2	2	0	0.45	0.9	0.45	-0.13	-0.17	0	0	0	0	0	0
8/23/2024 10:16	20601	GRWO_T2	1	35	34	0.2	0.24	0.04	1.29	1.33	0	0	0	0	0	0
8/23/2024 10:16	42302	MOWR_T2	0	0	0	0	0	0	1.23	0.04	0	0	0	0	0	0
8/23/2024 10:17	25503	MADI_T1	3	2	-1	0.43	0.5	0.07	-0.91	-0.86	0	0	0	0	0	0
8/23/2024 10:17	25501	MADI_T1	2	3	1	0.45	0.45	0	0	0	0	0	0	0	0	0
8/23/2024 10:17	25502	MADI_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
8/23/2024 10:18	25402	LAHA_T2	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
8/23/2024 10:18	12801	MICK_T1	0	0	0	0	0	0	-0.75	-0.66	1	1	0	600	600	0
8/23/2024 10:18	63401	HONY_T1	0	0	0	0	0	0	0.25	0.33	2	2	0	1200	1200	0
8/23/2024 10:19	23002	SAJO_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
8/23/2024 10:19	63403	HONY_T2	0	0	0	0	0	0	0.22	0.25	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/23/2024 10:19	42201	SHEN_T2	0	0	0	0	0	0	1.32	1.33	0	0	0	0	0	0
8/23/2024 10:19	52402	GRPA_T2	3	7	4	0.5	0.17	-0.33	-0.71	-0.7	0	0	0	0	0	0
8/23/2024 10:19	23001	SAJO_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
8/23/2024 10:19	67502	WEWI_T2	2	2	0	0.75	1	0.25	-0.27	-0.21	0	0	0	0	0	0
8/23/2024 10:19	67503	WEWI_T2	1	1	0	8	8.2	0.2	-0.15	-0.07	0	0	0	0	0	0
8/23/2024 10:20	23002	SAJO_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
8/23/2024 10:20	67502	WEWI_T2	2	2	0	0.75	1	0.25	0	0	0	0	0	0	0	0
8/23/2024 10:20	67503	WEWI_T2	1	1	0	8	8.2	0.2	-0.15	-0.07	0	0	0	0	0	0
8/23/2024 10:20	24204	PROV_T3	1	1	0	6.9	6.6	-0.3	0	0	0	0	0	0	0	0
8/23/2024 10:20	24201	PROV_T3	1	1	0	7.3	6.8	-0.5	0.04	-1.24	0	1	1	0	1200	1200
8/23/2024 10:20	43802	SWIL_T1	0	0	0	0	0	0	-0.11	-0.08	1	1	0	600	600	0
8/23/2024 10:20	64802	MONE_T2	1	4	3	0.6	0.48	-0.12	0.34	0.37	0	0	0	0	0	0
8/23/2024 10:20	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 10:20	43801	SWIL_T1	1	1	0	6	5.6	-0.4	0	0	0	0	0	0	0	0
8/23/2024 10:20	23001	SAJO_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
8/23/2024 10:21	12302	LANA_T2	0	0	0	0	0	0	-1.54	-1.48	2	2	0	1500	1500	0
8/23/2024 10:21	64802	MONE_T2	1	4	3	0.6	0.48	-0.12	0.37	0.35	0	0	0	0	0	0
8/23/2024 10:21	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 10:21	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
8/23/2024 10:22	66502	SMAN_T2	1	1	0	0.4	0.4	0	0.37	0.37	0	0	0	0	0	0
8/23/2024 10:22	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 10:22	59202	THOM_T1	4	3	-1	0.35	0.17	-0.18	0	0	0	0	0	0	0	0
8/23/2024 10:22	66501	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/23/2024 10:23	66501	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/23/2024 10:23	54201	PENN_T1	3	3	0	1.03	1.2	0.17	-0.83	-0.81	0	0	0	0	0	0
8/23/2024 10:23	54203	PENN_T1	5	5	0	0.42	0.54	0.12	0	0	0	0	0	0	0	0
8/23/2024 10:23	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 10:23	51305	WIND_T1	1	1	0	0.4	0.2	-0.2	0.32	0.27	0	0	0	0	0	0
8/23/2024 10:23	52402	GRPA_T2	3	7	4	0.5	0.17	-0.33	0	0	0	0	0	0	0	0
8/23/2024 10:23	66502	SMAN_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/23/2024 10:23	44301	BEAV_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/23/2024 10:23	51301	WIND_T1	2	3	1	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
8/23/2024 10:23	52401	GRPA_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
8/23/2024 10:24	13704	SCHN_T2	0	0	0	0	0	0	-0.12	-0.09	0	0	0	0	0	0
8/23/2024 10:24	53601	DALM_T2	1	1	0	0.5	1.1	0.6	0.39	-0.04	0	0	0	0	0	0
8/23/2024 10:24	15703	TANN_T2	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
8/23/2024 10:24	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
8/23/2024 10:25	15702	TANN_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
8/23/2024 10:25	56503	ROCK_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
8/23/2024 10:25	42503	ALTA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 10:25	15703	TANN_T2	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
8/23/2024 10:25	42501	ALTA_T2	0	0	0	0	0	0	-1.04	-1	1	1	0	600	600	0
8/23/2024 10:25	16103	BING_T2	0	0	0	0	0	0	-0.73	-1.27	2	1	-1	1500	900	-600
8/23/2024 10:25	67605	WARW_T1	7	9	2	0.43	0.48	0.05	-1.04	-1	0	0	0	0	0	0
8/23/2024 10:25	56504	ROCK_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/23/2024 10:25	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 10:25	59202	THOM_T1	4	3	-1	0.35	0.17	-0.18	0	0	0	0	0	0	0	0
8/23/2024 10:25	56501	ROCK_T2	3	5	2	0.6	0.45	-0.15	0.3	0.36	0	0	0	0	0	0
8/23/2024 10:26	56501	ROCK_T2	3	5	2	0.6	0.45	-0.15	0.15	0.18	0	0	0	0	0	0
8/23/2024 10:26	56504	ROCK_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/23/2024 10:26	45902	AUBU_T1	1	1	0	0.2	0.4	0.2	-0.41	-0.35	1	1	0	600	600	0
8/23/2024 10:26	56503	ROCK_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
8/23/2024 10:26	16103	BING_T2	0	0	0	0	0	0	-0.73	-1.27	2	1	-1	1500	900	-600
8/23/2024 10:27	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 10:27	67605	WARW_T1	7	9	2	0.43	0.48	0.05	0	0	0	0	0	0	0	0
8/23/2024 10:28	56504	ROCK_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/23/2024 10:28	56501	ROCK_T2	3	5	2	0.6	0.45	-0.15	0.3	0.36	0	0	0	0	0	0
8/23/2024 10:28	56503	ROCK_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
8/23/2024 10:29	56501	ROCK_T2	3	5	2	0.6	0.45	-0.15	0.15	0.18	0	0	0	0	0	0
8/23/2024 10:29	63501	HEID_TBK1-2	55	56	1	1.86	1.15	-0.71	-0.2	-0.04	1	1	0	900	900	0
8/23/2024 10:29	56504	ROCK_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/23/2024 10:29	56503	ROCK_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
8/23/2024 10:30	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 10:30	59201	THOM_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/23/2024 10:30	45902	AUBU_T1	1	1	0	0.4	0.1	-0.3	-0.41	-0.35	1	1	0	600	600	0
8/23/2024 10:30	59202	THOM_T1	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0	0
8/23/2024 10:32	53802	MBRG_T2	0	0	0	0	0	0	1.1	1.21	0	0	0	0	0	0
8/23/2024 10:32	53801	MBRG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 10:32	63303	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 10:32	63302	GREE_T1	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
8/23/2024 10:32	14203	EALL_T1	0	0	0	0	0	0	0.07	0.06	1	1	0	1200	1200	0
8/23/2024 10:33	65205	PRIN_T1	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
8/23/2024 10:34	63501	HEID_TBK1-2	56	56	0	1.38	1.07	-0.31	-0.2	-0.04	1	1	0	900	900	0
8/23/2024 10:35	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.15	2	2	0	900	900	0
8/23/2024 10:35	64202	KINZ_T1	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/23/2024 10:35	64204	KINZ_T1	3	3	0	0.9	0.63	-0.27	0	0	0	0	0	0	0	0
8/23/2024 10:36	58402	MORO_T1	1	0	-1	0.5	0	-0.5	-0.1	-0.11	2	2	0	1500	1500	0
8/23/2024 10:37	59101	WALK_T2	0	1	1	0	0	0	2.78	3.44	0	0	0	0	0	0
8/23/2024 10:38	57403	SPAN_T1	14	126	112	0.21	0.23	0.02	0	0	0	0	0	0	0	0
8/23/2024 10:38	59202	THOM_T1	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0	0
8/23/2024 10:38	57401	SPAN_T1	7	14	7	0.44	0.56	0.12	-0.73	-0.64	1	1	0	600	600	0
8/23/2024 10:38	13704	SCHN_T2	0	0	0	0	0	0	-0.09	0.07	0	0	0	0	0	0
8/23/2024 10:38	59201	THOM_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/23/2024 10:39	57401	SPAN_T1	7	14	7	0.44	0.56	0.12	-1.46	-1.27	2	2	0	1200	1200	0
8/23/2024 10:39	20403	ASHF_T2	1	1	0	0.3	0.4	0.1	1.44	1.38	0	0	0	0	0	0
8/23/2024 10:39	20401	ASHF_T2	4	3	-1	1.05	0.35	-0.7	0	0	0	0	0	0	0	0
8/23/2024 10:39	57403	SPAN_T1	14	126	112	0.21	0.23	0.02	0	0	0	0	0	0	0	0
8/23/2024 10:40	44801	EDAN_T2	121	135	14	0.49	0.59	0.1	0	0	0	0	0	0	0	0
8/23/2024 10:40	59101	WALK_T2	0	1	1	0	0	0	1.39	1.72	0	0	0	0	0	0
8/23/2024 10:40	45502	DERR_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
8/23/2024 10:40	45501	DERR_T2	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
8/23/2024 10:40	60101	COCA_T1	0	0	0	0	0	0	0.45	0.51	0	0	0	0	0	0
8/23/2024 10:40	14801	TREI_T2	4	5	1	0.58	0.52	-0.06	-0.35	-0.24	0	0	0	0	0	0
8/23/2024 10:40	44802	EDAN_T2	0	0	0	0	0	0	-0.53	-0.39	0	0	0	0	0	0
8/23/2024 10:40	14802	TREI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/23/2024 10:41	44801	EDAN_T2	121	135	14	0.49	0.59	0.1	-1.51	-1.49	0	0	0	0	0	0
8/23/2024 10:42	44802	EDAN_T2	0	0	0	0	0	0	-1.06	-0.78	0	0	0	0	0	0
8/23/2024 10:42	60101	COCA_T1	0	0	0	0	0	0	0.45	0.51	0	0	0	0	0	0
8/23/2024 10:42	44801	EDAN_T2	121	135	14	0.49	0.59	0.1	0	0	0	0	0	0	0	0
8/23/2024 10:42	45902	AUBU_T1	1	1	0	0.4	0.1	-0.3	-0.35	-0.25	1	1	0	600	600	0
8/23/2024 10:43	67603	WARW_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/23/2024 10:43	20403	ASHF_T2	1	1	0	0.3	0.4	0.1	1.44	1.38	0	0	0	0	0	0
8/23/2024 10:43	67605	WARW_T1	9	8	-1	0.47	0.54	0.07	-1	-1.02	0	0	0	0	0	0
8/23/2024 10:43	20401	ASHF_T2	4	3	-1	1.05	0.35	-0.7	0	0	0	0	0	0	0	0
8/23/2024 10:44	44802	EDAN_T2	0	0	0	0	0	0	-0.53	-0.39	0	0	0	0	0	0
8/23/2024 10:44	11104	EGYP_T1	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
8/23/2024 10:44	67603	WARW_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/23/2024 10:44	11101	EGYP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/23/2024 10:44	46004	BERW_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
8/23/2024 10:44	44801	EDAN_T2	121	135	14	0.49	0.59	0.1	-1.51	-1.49	0	0	0	0	0	0
8/23/2024 10:44	67605	WARW_T1	9	8	-1	0.47	0.54	0.07	-1	-1.02	0	0	0	0	0	0
8/23/2024 10:44	11102	EGYP_T1	1	3	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0
8/23/2024 10:45	44801	EDAN_T2	133	121	-12	0.58	0.58	0	0	0	0	0	0	0	0	0
8/23/2024 10:45	29402	BELT_T1	226	244	18	0.73	0.82	0.09	0	0	0	0	0	0	0	0
8/23/2024 10:45	44802	EDAN_T2	0	0	0	0	0	0	-1.06	-0.78	0	0	0	0	0	0
8/23/2024 10:45	40901	JESH_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
8/23/2024 10:45	47901	HRDG_T1	0	0	0	0	0	0	1.89	0.78	0	1	1	0	1200	1200
8/23/2024 10:45	29401	BELT_T1	1	3	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/23/2024 10:45	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 10:45	40101	HUNT_T2	1	3	2	0.9	0.5	-0.4	-0.32	-0.11	0	0	0	0	0	0
8/23/2024 10:45	48302	ORWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 10:46	11102	EGYP_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
8/23/2024 10:46	11104	EGYP_T1	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
8/23/2024 10:46	11101	EGYP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/23/2024 10:47	52004	LING_T2	4	5	1	3.18	2.64	-0.54	0.39	0.39	0	0	0	0	0	0
8/23/2024 10:48	26301	OLFO_T2	0	0	0	0	0	0	0.81	0.84	2	2	0	2400	2400	0
8/23/2024 10:51	44202	POIN_T2	1	2	1	7.1	0	-7.1	-0.34	-0.39	1	1	0	1200	1200	0
8/23/2024 10:51	42903	MIDD_T2	2	2	0	0.65	1.5	0.85	0	0	0	0	0	0	0	0
8/23/2024 10:51	42901	MIDD_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/23/2024 10:51	44203	POIN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 10:51	42902	MIDD_T2	0	2	2	0	0.15	0.15	-0.22	-0.32	0	2	2	0	1200	1200
8/23/2024 10:52	67702	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 10:52	13901	SEID_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 10:52	67703	WERN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
8/23/2024 10:52	13905	SEID_T1	0	0	0	0	0	0	-0.83	-0.8	1	1	0	1200	1200	0
8/23/2024 10:53	44302	BEAV_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 10:53	44301	BEAV_T2	1	2	1	0.6	0.7	0.1	0.85	0.86	1	1	0	600	600	0
8/23/2024 10:54	55101	WERT_T1	0	0	0	0	0	0	-4.15	-4.52	8	8	0	6600	6600	0
8/23/2024 10:55	55101	WERT_T1	0	0	0	0	0	0	-2.07	-2.26	4	4	0	3300	3300	0
8/23/2024 10:56	60101	COCA_T1	0	0	0	0	0	0	0.51	0.63	0	0	0	0	0	0
8/23/2024 10:56	55101	WERT_T1	0	0	0	0	0	0	-4.15	-4.52	8	8	0	6600	6600	0
8/23/2024 10:57	60101	COCA_T1	0	0	0	0	0	0	0.51	0.63	0	0	0	0	0	0
8/23/2024 10:57	56503	ROCK_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/23/2024 10:57	56504	ROCK_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
8/23/2024 10:57	57403	SPAN_T1	6	151	145	0.28	0.32	0.04	0	0	0	0	0	0	0	0
8/23/2024 10:57	56501	ROCK_T2	4	6	2	0.35	1.12	0.77	0	0	0	0	0	0	0	0
8/23/2024 10:57	57401	SPAN_T1	5	37	32	0.44	0.49	0.05	-0.64	-0.67	1	1	0	600	600	0
8/23/2024 10:57	61803	EELI_T2	0	0	0	0	0	0	0.51	0.58	1	1	0	600	600	0
8/23/2024 10:58	11604	CEAL_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
8/23/2024 10:58	11601	CEAL_T1	1	1	0	0.5	0.8	0.3	0	0	1	1	0	1200	1200	0
8/23/2024 11:00	60101	COCA_T1	0	2	2	0	0.2	0.2	1.03	1.26	0	0	0	0	0	0
8/23/2024 11:00	41902	REED_T1	0	1	1	0	0.3	0.3	1.18	1.2	0	0	0	0	0	0
8/23/2024 11:01	52004	LING_T2	4	5	1	3.23	2.62	-0.61	0.39	0.4	0	0	0	0	0	0
8/23/2024 11:01	29402	BELT_T1	235	228	-7	0.83	0.81	-0.02	0	0	0	0	0	0	0	0
8/23/2024 11:01	29401	BELT_T1	1	4	3	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
8/23/2024 11:01	53501	EVIL_T2	0	2	2	0	0.25	0.25	-0.01	-0.01	2	2	0	1200	1200	0
8/23/2024 11:01	41902	REED_T1	0	1	1	0	0.3	0.3	1.18	1.2	0	0	0	0	0	0
8/23/2024 11:04	22903	HARW_T1	0	0	0	0	0	0	0.25	0.4	0	0	0	0	0	0
8/23/2024 11:05	42802	SELI_T1	0	0	0	0	0	0	-0.91	-0.95	1	1	0	900	900	0
8/23/2024 11:06	42802	SELI_T1	0	0	0	0	0	0	-0.95	-0.78	1	1	0	900	900	0
8/23/2024 11:06	67002	STHI_T2	1	0	-1	1.3	0	-1.3	0.79	0.78	0	0	0	0	0	0
8/23/2024 11:07	24204	PROV_T3	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
8/23/2024 11:07	53601	DALM_T2	1	1	0	1.4	1.4	0	-0.17	-0.2	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/23/2024 11:07	42601	TUSC_T1	0	1	1	0	0.1	0.1	-0.68	-0.66	2	2	0	1800	1800	0
8/23/2024 11:07	24201	PROV_T3	1	1	0	7	6.8	-0.2	-1.19	-1.19	1	1	0	1200	1200	0
8/23/2024 11:08	59101	WALK_T2	0	0	0	0	0	0	1.75	1.49	0	0	0	0	0	0
8/23/2024 11:08	58705	ROSE_T2	5	5	0	2.58	2.5	-0.08	0	0	0	0	0	0	0	0
8/23/2024 11:08	58706	ROSE_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/23/2024 11:08	58702	ROSE_T2	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0
8/23/2024 11:09	57205	ROSS_T1	3	3	0	0.57	0.9	0.33	0.39	0.46	0	0	0	0	0	0
8/23/2024 11:09	59101	WALK_T2	0	0	0	0	0	0	1.75	1.49	0	0	0	0	0	0
8/23/2024 11:09	53601	DALM_T2	1	1	0	1.4	1.4	0	-0.17	-0.2	0	0	0	0	0	0
8/23/2024 11:09	57203	ROSS_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/23/2024 11:10	42802	SELI_T1	0	0	0	0	0	0	-0.95	-0.78	1	1	0	900	900	0
8/23/2024 11:10	20403	ASHF_T2	1	1	0	0.4	0.4	0	1.42	1.53	0	0	0	0	0	0
8/23/2024 11:10	20401	ASHF_T2	3	2	-1	1.43	0.25	-1.18	0	0	0	0	0	0	0	0
8/23/2024 11:11	57401	SPAN_T1	14	38	24	0.56	0.52	-0.04	-0.67	-0.75	1	1	0	600	600	0
8/23/2024 11:11	57403	SPAN_T1	126	151	25	0.23	0.33	0.1	0	0	0	0	0	0	0	0
8/23/2024 11:12	59101	WALK_T2	0	0	0	0	0	0	1.75	1.49	0	0	0	0	0	0
8/23/2024 11:13	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 11:14	61501	EPET_T2	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
8/23/2024 11:14	61504	EPET_T2	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
8/23/2024 11:17	64202	KINZ_T1	0	0	0	0	0	0	1.2	1.05	0	0	0	0	0	0
8/23/2024 11:17	12002	HATF_T1	0	0	0	0	0	0	-0.3	-0.21	1	1	0	1200	1200	0
8/23/2024 11:17	41902	REED_T1	0	2	2	0	0.4	0.4	1.2	1.16	0	0	0	0	0	0
8/23/2024 11:17	64204	KINZ_T1	11	12	1	0.45	0.45	0	0	0	0	0	0	0	0	0
8/23/2024 11:17	12701	MACU_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
8/23/2024 11:17	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 11:18	42903	MIDD_T2	2	2	0	1.5	1.75	0.25	0	0	0	0	0	0	0	0
8/23/2024 11:18	42901	MIDD_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
8/23/2024 11:18	42902	MIDD_T2	2	2	0	0.15	0.25	0.1	-0.16	-0.15	1	1	0	600	600	0
8/23/2024 11:18	12701	MACU_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
8/23/2024 11:19	42901	MIDD_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
8/23/2024 11:19	42902	MIDD_T2	2	2	0	0.15	0.25	0.1	-0.16	-0.15	1	1	0	600	600	0
8/23/2024 11:19	42903	MIDD_T2	2	2	0	1.5	1.75	0.25	0	0	0	0	0	0	0	0
8/23/2024 11:20	42903	MIDD_T2	2	2	0	1.5	1.75	0.25	0.72	0.65	0	0	0	0	0	0
8/23/2024 11:20	42902	MIDD_T2	2	2	0	0.15	0.25	0.1	-0.16	-0.15	1	1	0	600	600	0
8/23/2024 11:20	42901	MIDD_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
8/23/2024 11:20	58402	MORO_T1	0	0	0	0	0	0	-0.11	-0.19	2	2	0	1500	1500	0
8/23/2024 11:22	64101	REFR_T1	1	1	0	0.2	0.4	0.2	0.04	0.05	0	0	0	0	0	0
8/23/2024 11:22	42601	TUSC_T1	0	1	1	0	0.1	0.1	-0.66	-0.61	2	2	0	1800	1800	0
8/23/2024 11:22	16605	PONO_T1	0	0	0	0	0	0	-0.18	-0.17	1	1	0	1200	1200	0
8/23/2024 11:22	24201	PROV_T3	1	1	0	6.8	6.7	-0.1	-1.19	-1.19	1	1	0	1200	1200	0
8/23/2024 11:22	42802	SELI_T1	0	0	0	0	0	0	-1.57	-1.52	2	2	0	1800	1800	0
8/23/2024 11:22	13704	SCHN_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
8/23/2024 11:22	24204	PROV_T3	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
8/23/2024 11:23	57401	SPAN_T1	37	29	-8	0.49	0.62	0.13	-0.75	-0.74	1	1	0	600	600	0
8/23/2024 11:23	57403	SPAN_T1	149	143	-6	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
8/23/2024 11:23	16302	ALPA_T2	0	3	3	0	0.33	0.33	-0.35	-0.41	0	0	0	0	0	0
8/23/2024 11:23	42802	SELI_T1	0	0	0	0	0	0	-0.78	-0.76	1	1	0	900	900	0
8/23/2024 11:23	64902	MILL_T2	0	0	0	0	0	0	-0.37	-0.37	1	1	0	900	900	0
8/23/2024 11:24	45302	WBER_T2	0	0	0	0	0	0	1.88	1.85	0	0	0	0	0	0
8/23/2024 11:24	57401	SPAN_T1	37	29	-8	0.49	0.62	0.13	-0.75	-0.74	1	1	0	600	600	0
8/23/2024 11:24	57403	SPAN_T1	149	143	-6	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
8/23/2024 11:26	42802	SELI_T1	0	0	0	0	0	0	-0.78	-0.76	1	1	0	900	900	0
8/23/2024 11:26	57401	SPAN_T1	37	29	-8	0.49	0.62	0.13	-0.75	-0.74	1	1	0	600	600	0
8/23/2024 11:26	57403	SPAN_T1	149	143	-6	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
8/23/2024 11:26	16302	ALPA_T2	0	3	3	0	0.33	0.33	-0.18	-0.2	0	0	0	0	0	0
8/23/2024 11:27	57401	SPAN_T1	37	29	-8	0.49	0.62	0.13	-0.75	-0.74	1	1	0	600	600	0
8/23/2024 11:27	16302	ALPA_T2	0	3	3	0	0.33	0.33	-0.18	-0.2	0	0	0	0	0	0
8/23/2024 11:27	57403	SPAN_T1	149	143	-6	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
8/23/2024 11:28	28702	HAML_T2	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
8/23/2024 11:28	28701	HAML_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/23/2024 11:28	41002	LAUR_T2	1	1	0	1.5	2	0.5	-0.88	-0.87	0	0	0	0	0	0
8/23/2024 11:29	41002	LAUR_T2	1	1	0	1.5	2	0.5	-0.88	-0.87	0	0	0	0	0	0
8/23/2024 11:30	15703	TANN_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
8/23/2024 11:30	15702	TANN_T2	1	2	1	0.1	0.55	0.45	-0.24	-0.26	0	0	0	0	0	0
8/23/2024 11:30	61505	EPET_T1	0	0	0	0	0	0	0.37	0.42	0	0	0	0	0	0
8/23/2024 11:32	12604	MACA_T1	0	3	3	0	0.47	0.47	0.47	0.49	0	0	0	0	0	0
8/23/2024 11:32	12605	MACA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/23/2024 11:32	12601	MACA_T1	2	2	0	0.95	1.3	0.35	0	0	0	0	0	0	0	0
8/23/2024 11:32	12602	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 11:33	43102	SMIL_T2	6	5	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
8/23/2024 11:33	43103	SMIL_T2	7	7	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/23/2024 11:33	43104	SMIL_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/23/2024 11:33	43101	SMIL_T2	1	1	0	0.9	1	0.1	-0.49	-0.42	0	0	0	0	0	0
8/23/2024 11:33	52004	LIND_T2	4	5	1	3.2	2.6	-0.6	0.4	0.39	0	0	0	0	0	0
8/23/2024 11:33	43105	SMIL_T2	2	2	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
8/23/2024 11:37	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 11:37	57003	WHHI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/23/2024 11:37	27502	WEIS_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
8/23/2024 11:37	57002	WHHI_T2	0	0	0	0	0	0	-1.04	-1.03	1	1	0	1200	1200	0
8/23/2024 11:37	27503	WEIS_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/23/2024 11:38	13704	SCHN_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
8/23/2024 11:39	66703	STRA_T1	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
8/23/2024 11:39	66701	STRA_T1	2	2	0	1.05	0.9	-0.15	0	0	0	0	0	0	0	0
8/23/2024 11:40	20403	ASHF_T2	0	8	8	0	0.71	0.71	0	0	0	0	0	0	0	0
8/23/2024 11:40	20401	ASHF_T2	1	4	3	0.1	0.25	0.15	0.06	0.08	0	0	0	0	0	0
8/23/2024 11:41	56503	ROCK_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/23/2024 11:41	56504	ROCK_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/23/2024 11:41	56501	ROCK_T2	6	6	0	1.72	1.28	-0.44	0.27	0.2	0	0	0	0	0	0
8/23/2024 11:42	40201	BEGA_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
8/23/2024 11:42	11301	EMMA_T1	0	0	0	0	0	0	-0.53	-0.59	0	0	0	0	0	0
8/23/2024 11:42	60101	COCA_T1	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/23/2024 11:42	11303	EMMA_T1	1	2	1	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
8/23/2024 11:42	11302	EMMA_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/23/2024 11:43	56503	ROCK_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/23/2024 11:43	61306	EARL_T1	0	0	0	0	0	0	-1.19	-1.2	0	0	0	0	0	0
8/23/2024 11:43	56504	ROCK_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/23/2024 11:43	60101	COCA_T1	2	2	0	0.2	0.4	0.2	0.52	0.51	0	0	0	0	0	0
8/23/2024 11:43	56501	ROCK_T2	6	6	0	1.72	1.28	-0.44	0.27	0.2	0	0	0	0	0	0
8/23/2024 11:44	56501	ROCK_T2	6	6	0	1.72	1.28	-0.44	0.27	0.2	0	0	0	0	0	0
8/23/2024 11:44	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 11:44	10504	CRAC_T1	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
8/23/2024 11:44	60101	COCA_T1	2	2	0	0.2	0.4	0.2	0.52	0.51	0	0	0	0	0	0
8/23/2024 11:44	56503	ROCK_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/23/2024 11:44	56504	ROCK_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/23/2024 11:44	16004	DORN_T1	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
8/23/2024 11:44	16006	DORN_T2	0	0	0	0	0	0	-0.27	-0.22	1	1	0	1200	1200	0
8/23/2024 11:45	22901	HARW_T1	0	1	1	0	0.5	0.5	-0.1	-0.15	1	1	0	1200	1200	0
8/23/2024 11:45	47203	FAXO_T2	0	0	0	0	0	0	-1.44	-1.44	1	1	0	1200	1200	0
8/23/2024 11:45	60101	COCA_T1	2	2	0	0.4	0.4	0	0.52	0.51	0	0	0	0	0	0
8/23/2024 11:48	40101	HUNT_T2	1	4	3	0.1	0.33	0.23	-0.22	-0.2	0	0	0	0	0	0
8/23/2024 11:50	58401	MORO_T1	0	0	0	0	0	0	-0.77	-1.62	1	2	1	600	1500	900
8/23/2024 11:51	67501	WEWI_T1	3	3	0	0.47	0.6	0.13	0	0	0	0	0	0	0	0
8/23/2024 11:51	67502	WEWI_T2	2	3	1	1.1	0.73	-0.37	0	0	0	0	0	0	0	0
8/23/2024 11:51	67505	WEWI_T1	0	0	0	0	0	0	0.15	0.17	1	1	0	900	900	0
8/23/2024 11:51	67503	WEWI_T2	1	1	0	7.6	7.7	0.1	0.07	0.08	0	0	0	0	0	0
8/23/2024 11:52	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 11:52	40602	PIGR_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
8/23/2024 11:52	58401	MORO_T1	0	0	0	0	0	0	-1.62	-1.61	2	2	0	1500	1500	0
8/23/2024 11:52	40601	PIGR_T1	2	4	2	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
8/23/2024 11:53	67201	TEHI_T1	0	2	2	0	0.15	0.15	1.4	0.52	1	2	1	900	1500	600
8/23/2024 11:54	59102	WALK_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/23/2024 11:54	59101	WALK_T2	1	1	0	1.2	0.8	-0.4	0.92	0.88	0	0	0	0	0	0
8/23/2024 11:55	59201	THOM_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
8/23/2024 11:55	59202	THOM_T1	6	7	1	0.37	0.29	-0.08	0	0	0	0	0	0	0	0
8/23/2024 11:56	59102	WALK_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/23/2024 11:56	59101	WALK_T2	1	1	0	1.2	0.8	-0.4	1.83	1.76	0	0	0	0	0	0
8/23/2024 11:57	67503	WEWI_T2	1	1	0	7.6	7.7	0.1	0.07	0.08	0	0	0	0	0	0
8/23/2024 11:57	67502	WEWI_T2	2	3	1	1.1	0.73	-0.37	0	0	0	0	0	0	0	0
8/23/2024 11:57	15001	BLMO_T1	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
8/23/2024 11:57	48901	FOSP_T2	1	1	0	0.5	1	0.5	-0.04	-0.03	1	1	0	600	600	0
8/23/2024 11:58	48901	FOSP_T2	1	1	0	0.5	1	0.5	-0.08	-0.06	2	2	0	1200	1200	0
8/23/2024 11:59	57106	SPHI_T2	4	4	0	1	0.75	-0.25	0	0	0	0	0	0	0	0
8/23/2024 11:59	48902	FOSP_T2	0	0	0	0	0	0	-1.13	-0.92	2	1	-1	2400	1200	-1200
8/23/2024 11:59	48901	FOSP_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
8/23/2024 11:59	53502	EVIL_T2	0	0	0	0	0	0	0.48	0.19	1	2	1	600	1200	600
8/23/2024 11:59	60902	DONG_T2	0	0	0	0	0	0	1.15	1.14	0	0	0	0	0	0
8/23/2024 11:59	57104	SPHI_T2	6	4	-2	0.52	0.5	-0.02	-0.74	-0.71	0	0	0	0	0	0
8/23/2024 11:59	57101	SPHI_T2	6	6	0	1.05	0.43	-0.62	0	0	0	0	0	0	0	0
8/23/2024 11:59	60901	DONG_T2	2	3	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
8/23/2024 11:59	53501	EVIL_T2	0	1	1	0	0.6	0.6	-0.01	-0.01	2	2	0	1200	1200	0
8/23/2024 11:59	60904	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 12:00	53501	EVIL_T2	1	1	0	0.5	0.6	0.1	-0.01	-0.01	2	2	0	1200	1200	0
8/23/2024 12:00	58202	NEWV_T1	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
8/23/2024 12:01	53501	EVIL_T2	1	1	0	0.5	0.6	0.1	-0.01	-0.01	1	1	0	600	600	0
8/23/2024 12:02	43103	SMIL_T2	3	6	3	0.67	0.52	-0.15	0	0	0	0	0	0	0	0
8/23/2024 12:02	43104	SMIL_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/23/2024 12:02	43105	SMIL_T2	2	2	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
8/23/2024 12:02	63501	HEID_TBK1-2	56	59	3	1.59	1.26	-0.33	-0.05	0.02	1	1	0	900	900	0
8/23/2024 12:02	43102	SMIL_T2	5	3	-2	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
8/23/2024 12:02	43101	SMIL_T2	1	1	0	1	0.9	-0.1	-0.5	-0.44	0	0	0	0	0	0
8/23/2024 12:04	13704	SCHN_T2	0	1	1	0	0.2	0.2	0.05	0.11	0	0	0	0	0	0
8/23/2024 12:04	10801	CHHI_T1	4	8	4	0.7	1.09	0.39	-0.97	-0.92	2	2	0	1500	1500	0
8/23/2024 12:04	63501	HEID_TBK1-2	56	59	3	1.59	1.26	-0.33	-0.05	0.02	1	1	0	900	900	0
8/23/2024 12:05	66701	STRA_T1	2	1	-1	0.7	1.3	0.6	0	0	0	0	0	0	0	0
8/23/2024 12:05	54603	SUMM_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 12:05	66703	STRA_T1	0	0	0	0	0	0	0.23	0.32	0	0	0	0	0	0
8/23/2024 12:05	48901	FOSP_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
8/23/2024 12:05	48902	FOSP_T2	0	0	0	0	0	0	-1.13	-0.92	2	1	-1	2400	1200	-1200
8/23/2024 12:05	54601	SUMM_T2	0	0	0	0	0	0	-1.55	-1.51	2	2	0	2100	2100	0
8/23/2024 12:05	60801	BUCK_T1	1	2	1	0.2	0.3	0.1	0.14	-0.08	0	0	0	0	0	0
8/23/2024 12:07	62105	ELAN_T1	0	1	1	0	0.2	0.2	0.58	0.58	0	0	0	0	0	0
8/23/2024 12:09	40602	PIGR_T1	1	1	0	2.1	1.9	-0.2	0.27	0.21	0	0	0	0	0	0
8/23/2024 12:09	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/23/2024 12:09	54603	SUMM_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 12:09	40601	PIGR_T1	3	4	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
8/23/2024 12:09	54601	SUMM_T2	0	0	0	0	0	0	-1.51	-1.54	2	2	0	2100	2100	0
8/23/2024 12:10	54601	SUMM_T2	0	0	0	0	0	0	-1.51	-1.54	2	2	0	2100	2100	0
8/23/2024 12:10	62105	ELAN_T1	0	1	1	0	0.2	0.2	0.58	0.58	0	0	0	0	0	0
8/23/2024 12:10	54603	SUMM_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 12:12	60701	BREC_T1	2	2	0	0.5	0.5	0	-0.38	-0.37	2	2	0	1200	1200	0
8/23/2024 12:12	29202	APPE_T1	3	9	6	0.67	0.67	0	0	0	0	0	0	0	0	0
8/23/2024 12:12	29201	APPE_T1	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
8/23/2024 12:14	28801	LAKE_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/23/2024 12:14	60801	BUCK_T1	1	2	1	0.2	0.3	0.1	-0.08	-0.05	0	0	0	0	0	0
8/23/2024 12:14	28805	LAKE_T1	1	1	0	0.2	0.7	0.5	-0.16	-0.16	0	0	0	0	0	0
8/23/2024 12:15	61502	EPET_T1	0	0	0	0	0	0	-1.17	-1.11	0	0	0	0	0	0
8/23/2024 12:16	44703	MUNC_T2	2	2	0	0.55	0.3	-0.25	1.09	1.09	0	0	0	0	0	0
8/23/2024 12:16	44701	MUNC_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/23/2024 12:17	46203	DANV_T2	1	3	2	6.9	2.43	-4.47	0	0	0	0	0	0	0	0
8/23/2024 12:17	46206	DANV_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/23/2024 12:17	40101	HUNT_T2	4	4	0	0.45	0.7	0.25	-0.17	-0.15	0	0	0	0	0	0
8/23/2024 12:17	46205	DANV_T2	0	0	0	0	0	0	-0.51	-0.41	1	1	0	1200	1200	0
8/23/2024 12:18	13105	NHAM_T2	0	0	0	0	0	0	-0.46	-0.41	1	1	0	1200	1200	0
8/23/2024 12:19	16203	POFA_T2	3	6	3	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
8/23/2024 12:19	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 12:20	12601	MACA_T1	2	2	0	1.7	1.75	0.05	0	0	0	0	0	0	0	0
8/23/2024 12:20	12604	MACA_T1	6	4	-2	0.68	0.75	0.07	0	0	0	0	0	0	0	0
8/23/2024 12:20	12606	MACA_T1	1	1	0	0.3	0.2	-0.1	0.05	0.06	1	1	0	900	900	0
8/23/2024 12:20	12602	MACA_T1	1	2	1	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
8/23/2024 12:20	12605	MACA_T1	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
8/23/2024 12:20	44701	MUNC_T2	1	0	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/23/2024 12:20	13704	SCHN_T2	1	0	-1	0.2	0	-0.2	0.11	0.07	0	0	0	0	0	0
8/23/2024 12:20	44703	MUNC_T2	2	2	0	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
8/23/2024 12:21	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 12:21	13901	SEID_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/23/2024 12:21	64902	MILL_T2	0	0	0	0	0	0	-0.38	-0.34	1	1	0	900	900	0
8/23/2024 12:21	13905	SEID_T1	3	4	1	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
8/23/2024 12:22	42901	MIDD_T2	2	3	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
8/23/2024 12:22	42903	MIDD_T2	2	4	2	1.85	1.08	-0.77	0.44	0.59	0	0	0	0	0	0
8/23/2024 12:22	40101	HUNT_T2	4	4	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
8/23/2024 12:22	57403	SPAN_T1	38	40	2	0.32	0.35	0.03	0.16	0.15	0	0	0	0	0	0
8/23/2024 12:22	42902	MIDD_T2	3	2	-1	0.37	0.5	0.13	0	0	0	0	0	0	0	0
8/23/2024 12:22	57401	SPAN_T1	17	17	0	1.07	1.08	0.01	0	0	0	0	0	0	0	0
8/23/2024 12:24	45402	WBLO_T2	3	4	1	0.3	0.45	0.15	-0.52	-0.46	0	0	0	0	0	0
8/23/2024 12:25	45501	DERR_T2	1	0	-1	0.9	0	-0.9	0.48	0.47	4	4	0	3600	3600	0
8/23/2024 12:25	57403	SPAN_T1	38	40	2	0.32	0.35	0.03	0	0	0	0	0	0	0	0
8/23/2024 12:25	57401	SPAN_T1	17	17	0	1.07	1.08	0.01	-0.67	-0.58	1	1	0	600	600	0
8/23/2024 12:26	67602	WARW_T2	0	0	0	0	0	0	1.56	1.15	1	2	1	300	1500	1200
8/23/2024 12:26	51004	NHAR_T1	2	2	0	3.6	3.4	-0.2	0	-0.83	0	0	0	0	0	0
8/23/2024 12:26	11904	ETEX_T2	1	1	0	2.3	1.4	-0.9	0	0	0	0	0	0	0	0
8/23/2024 12:26	51002	NHAR_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/23/2024 12:26	11901	ETEX_T2	1	0	-1	0.1	0	-0.1	0.48	0.51	0	0	0	0	0	0
8/23/2024 12:26	57403	SPAN_T1	38	40	2	0.32	0.35	0.03	0	0	0	0	0	0	0	0
8/23/2024 12:26	57401	SPAN_T1	17	17	0	1.07	1.08	0.01	-0.67	-0.58	1	1	0	600	600	0
8/23/2024 12:27	57403	SPAN_T1	38	40	2	0.32	0.35	0.03	0	0	0	0	0	0	0	0
8/23/2024 12:27	67602	WARW_T2	0	0	0	0	0	0	1.56	1.15	1	2	1	300	1500	1200
8/23/2024 12:27	57401	SPAN_T1	17	17	0	1.07	1.08	0.01	-1.34	-1.15	2	2	0	1200	1200	0
8/23/2024 12:27	54504	ENOL_T2	1	1	0	0.4	0.4	0	-1.01	-0.99	1	1	0	600	600	0
8/23/2024 12:27	21204	ECAR_T2	1	1	0	0	0	0	-0.57	-0.49	0	0	0	0	0	0
8/23/2024 12:27	21206	ECAR_T2	1	1	0	7.4	8.1	0.7	0	0	0	0	0	0	0	0
8/23/2024 12:29	62607	ENGL_T1	0	0	0	0	0	0	-0.85	-0.85	1	1	0	300	300	0
8/23/2024 12:30	44903	SCOT_T1	0	0	0	0	0	0	0.62	0.69	0	0	0	0	0	0
8/23/2024 12:30	67602	WARW_T2	0	0	0	0	0	0	1.56	1.15	1	2	1	300	1500	1200
8/23/2024 12:31	23202	HIRU_T2	7	5	-2	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
8/23/2024 12:31	23203	HIRU_T2	8	7	-1	0.19	0.2	0.01	0.18	0.18	0	0	0	0	0	0
8/23/2024 12:31	23201	HIRU_T2	9	10	1	0.29	0.31	0.02	0	0	0	0	0	0	0	0
8/23/2024 12:32	23202	HIRU_T2	7	5	-2	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
8/23/2024 12:32	23203	HIRU_T2	8	7	-1	0.19	0.2	0.01	0.18	0.18	0	0	0	0	0	0
8/23/2024 12:32	23201	HIRU_T2	9	10	1	0.29	0.31	0.02	0	0	0	0	0	0	0	0
8/23/2024 12:34	63602	LETO_T1	1	0	-1	0.4	0	-0.4	-0.14	-0.11	0	0	0	0	0	0
8/23/2024 12:34	66903	SHIL_T2	0	1	1	0	0.2	0.2	-1.39	-1.32	0	0	0	0	0	0
8/23/2024 12:35	63602	LETO_T1	1	0	-1	0.4	0	-0.4	-0.14	-0.11	0	0	0	0	0	0
8/23/2024 12:35	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 12:35	16203	POFA_T2	6	5	-1	0.33	0.38	0.05	0	0	0	0	0	0	0	0
8/23/2024 12:36	14404	SSLA_T1	20	15	-5	0.93	0.94	0.01	0	0	0	0	0	0	0	0
8/23/2024 12:36	14402	SSLA_T1	4	4	0	0.78	0.85	0.07	0	0	0	0	0	0	0	0
8/23/2024 12:36	43202	MVIL_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
8/23/2024 12:36	14702	TREX_T2	0	0	0	0	0	0	1.03	1.27	0	0	0	0	0	0
8/23/2024 12:36	43201	MVIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/23/2024 12:36	14403	SSLA_T1	2	1	-1	0.4	0.1	-0.3	0.55	0.68	0	0	0	0	0	0
8/23/2024 12:37	13002	NBET_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/23/2024 12:37	14705	TREX_T1	0	0	0	0	0	0	-0.02	0.01	0	0	0	0	0	0
8/23/2024 12:37	13005	NBET_T2	0	0	0	0	0	0	-0.3	-0.23	1	1	0	1200	1200	0
8/23/2024 12:38	66901	SHIL_T2	0	0	0	0	0	0	-1.11	-1.11	1	1	0	1200	1200	0
8/23/2024 12:38	66903	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 12:39	57004	WHHI_T2	0	0	0	0	0	0	-0.12	-0.07	0	0	0	0	0	0
8/23/2024 12:39	57006	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/23/2024 12:39	14403	SSLA_T1	2	1	-1	0.4	0.1	-0.3	0.27	0.34	0	0	0	0	0	0
8/23/2024 12:39	14402	SSLA_T1	4	4	0	0.78	0.85	0.07	0	0	0	0	0	0	0	0
8/23/2024 12:39	14702	TREX_T2	0	0	0	0	0	0	1.03	1.27	0	0	0	0	0	0
8/23/2024 12:39	57003	WHHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/23/2024 12:39	14404	SSLA_T1	20	15	-5	0.93	0.94	0.01	0	0	0	0	0	0	0	0
8/23/2024 12:40	64802	MONE_T2	4	3	-1	0.53	0.7	0.17	0.33	0.33	0	0	0	0	0	0
8/23/2024 12:41	67803	WLAN_T1	0	0	0	0	0	0	-0.68	-0.65	0	0	0	0	0	0
8/23/2024 12:41	67804	WLAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/23/2024 12:42	14502	SCHO_T1	1	1	0	0.5	0.4	-0.1	0.65	0.66	0	0	0	0	0	0
8/23/2024 12:44	11104	EGYP_T1	0	0	0	0	0	0	0.9	0.99	0	0	0	0	0	0
8/23/2024 12:44	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/23/2024 12:44	11101	EGYP_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/23/2024 12:45	63804	HEMP_T1	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
8/23/2024 12:45	63802	HEMP_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
8/23/2024 12:45	63801	HEMP_T1	2	1	-1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
8/23/2024 12:46	12704	MACU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 12:46	12701	MACU_T1	0	0	0	0	0	0	0.38	0.5	0	0	0	0	0	0
8/23/2024 12:46	63602	LETO_T1	0	1	1	0	0.1	0.1	-0.11	-0.18	0	0	0	0	0	0
8/23/2024 12:47	48302	ORWI_T2	1	0	-1	0.1	0	-0.1	0.17	0.19	0	0	0	0	0	0
8/23/2024 12:48	63602	LETO_T1	0	1	1	0	0.1	0.1	-0.11	-0.18	0	0	0	0	0	0
8/23/2024 12:48	41001	LAUR_T2	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
8/23/2024 12:48	41002	LAUR_T2	1	2	1	1.8	1.1	-0.7	-1.13	-1.16	0	0	0	0	0	0
8/23/2024 12:51	65601	QVIL_T2	0	0	0	0	0	0	-0.61	-0.56	1	1	0	900	900	0
8/23/2024 12:51	13704	SCHN_T2	0	1	1	0	0.2	0.2	0.09	0.21	0	0	0	0	0	0
8/23/2024 12:51	14802	TREI_T2	3	2	-1	0.53	0.65	0.12	0.89	0.95	0	0	0	0	0	0
8/23/2024 12:51	14801	TREI_T2	16	13	-3	0.38	0.45	0.07	0	0	0	0	0	0	0	0
8/23/2024 12:52	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/23/2024 12:52	14801	TREI_T2	16	13	-3	0.38	0.45	0.07	0	0	0	0	0	0	0	0
8/23/2024 12:52	43202	MVIL_T2	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
8/23/2024 12:52	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/23/2024 12:52	65205	PRIN_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
8/23/2024 12:52	14502	SCHO_T1	1	0	-1	0.4	0	-0.4	0.66	0.7	0	0	0	0	0	0
8/23/2024 12:52	14802	TREI_T2	3	2	-1	0.53	0.65	0.12	0.89	0.95	0	0	0	0	0	0
8/23/2024 12:58	46402	FLEM_T2	0	0	0	0	0	0	-0.72	-0.05	1	0	-1	600	0	-600
8/23/2024 12:58	46401	FLEM_T2	1	4	3	1.7	0.9	-0.8	0	0	0	0	0	0	0	0
8/23/2024 12:59	41002	LAUR_T2	1	2	1	1.8	1.1	-0.7	-1.16	-1.16	0	0	0	0	0	0
8/23/2024 12:59	41001	LAUR_T2	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
8/23/2024 13:01	46401	FLEM_T2	3	4	1	1.03	0.9	-0.13	0	0	0	0	0	0	0	0
8/23/2024 13:01	46402	FLEM_T2	0	0	0	0	0	0	-0.72	-0.05	1	0	-1	600	0	-600
8/23/2024 13:02	43102	SMIL_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
8/23/2024 13:02	43104	SMIL_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
8/23/2024 13:02	43103	SMIL_T2	6	6	0	0.42	0.45	0.03	0	0	0	0	0	0	0	0
8/23/2024 13:02	43105	SMIL_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
8/23/2024 13:02	43101	SMIL_T2	1	1	0	0.9	0.8	-0.1	-0.45	-0.41	0	0	0	0	0	0
8/23/2024 13:03	46502	LOHA_T1	0	0	0	0	0	0	-2.42	-1.15	2	1	-1	2400	1200	-1200
8/23/2024 13:03	46501	LOHA_T1	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/23/2024 13:03	46504	LOHA_T1	2	2	0	0.35	0.85	0.5	0	0	0	0	0	0	0	0
8/23/2024 13:03	46503	LOHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/23/2024 13:05	15603	NSTR_T2	2	3	1	0.45	0.47	0.02	-0.26	-0.23	0	0	0	0	0	0
8/23/2024 13:05	15601	NSTR_T2	4	6	2	0.68	0.94	0.26	0	0	0	0	0	0	0	0
8/23/2024 13:06	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 13:06	15604	NSTR_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
8/23/2024 13:06	65206	PRIN_T4	1	0	-1	8.2	0	-8.2	0	0	0	0	0	0	0	0
8/23/2024 13:06	13002	NBET_T2	1	0	-1	0.3	0	-0.3	-1.16	-1.22	2	2	0	2400	2400	0
8/23/2024 13:07	15604	NSTR_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
8/23/2024 13:07	13704	SCHN_T2	1	1	0	0.2	0.2	0	0.21	0.22	0	0	0	0	0	0
8/23/2024 13:07	65205	PRIN_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
8/23/2024 13:08	66701	STRA_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/23/2024 13:08	66703	STRA_T1	0	0	0	0	0	0	0.33	0.45	0	0	0	0	0	0
8/23/2024 13:10	29301	DAPP_T1	1	1	0	8.7	9.2	0.5	0	0	1	1	0	600	600	0
8/23/2024 13:11	14705	TREX_T1	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
8/23/2024 13:11	11103	EGYP_T1	0	0	0	0	0	0	0.61	0.64	0	0	0	0	0	0
8/23/2024 13:11	11102	EGYP_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
8/23/2024 13:11	53903	HALI_T2	3	4	1	0.73	0.6	-0.13	0	0	0	0	0	0	0	0
8/23/2024 13:11	11101	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 13:11	61701	ELIZ_T1	1	2	1	2.9	1.75	-1.15	0	0	0	0	0	0	0	0
8/23/2024 13:11	53902	HALI_T2	3	3	0	2.07	1.7	-0.37	-0.07	-0.08	0	0	0	0	0	0
8/23/2024 13:11	53901	HALI_T2	2	1	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
8/23/2024 13:11	61703	ELIZ_T1	0	0	0	0	0	0	-2.14	-2.1	2	2	0	2100	2100	0
8/23/2024 13:12	11103	EGYP_T1	0	0	0	0	0	0	0.61	0.64	0	0	0	0	0	0
8/23/2024 13:12	11102	EGYP_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
8/23/2024 13:12	67602	WARW_T2	0	0	0	0	0	0	0.38	0.36	1	1	0	300	300	0
8/23/2024 13:12	11101	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 13:13	61703	ELIZ_T1	0	0	0	0	0	0	-4.28	-4.2	4	4	0	4200	4200	0
8/23/2024 13:13	67602	WARW_T2	0	0	0	0	0	0	0.76	0.72	2	2	0	600	600	0
8/23/2024 13:13	61701	ELIZ_T1	1	2	1	2.9	1.75	-1.15	0	0	0	0	0	0	0	0
8/23/2024 13:13	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 13:14	26803	JAFR_T1	1	1	0	0.2	0.8	0.6	-0.01	-0.02	1	1	0	900	900	0
8/23/2024 13:15	67602	WARW_T2	0	0	0	0	0	0	0.38	0.36	1	1	0	300	300	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/23/2024 13:16	43102	SMIL_T2	3	3	0	0.17	0.13	-0.04	-0.52	-0.55	1	1	0	600	600	0
8/23/2024 13:16	61703	ELIZ_T1	0	0	0	0	0	0	-2.14	-2.1	2	2	0	2100	2100	0
8/23/2024 13:16	43101	SMIL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
8/23/2024 13:16	43105	SMIL_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
8/23/2024 13:16	43103	SMIL_T2	5	6	1	0.38	0.45	0.07	0	0	0	0	0	0	0	0
8/23/2024 13:16	61701	ELIZ_T1	2	2	0	1.75	1.1	-0.65	0	0	0	0	0	0	0	0
8/23/2024 13:16	43104	SMIL_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/23/2024 13:17	56504	ROCK_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
8/23/2024 13:17	63501	HEID_TBK1-2	55	56	1	1.63	1.72	0.09	0.37	0.19	2	2	0	1800	1800	0
8/23/2024 13:17	56501	ROCK_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
8/23/2024 13:18	56504	ROCK_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
8/23/2024 13:18	11901	ETEX_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
8/23/2024 13:18	11904	ETEX_T2	1	1	0	2.1	1.6	-0.5	0	0	0	0	0	0	0	0
8/23/2024 13:18	56501	ROCK_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
8/23/2024 13:20	64902	MILL_T2	0	0	0	0	0	0	-0.31	-0.22	1	1	0	900	900	0
8/23/2024 13:21	47502	NECO_T1	0	2	2	0	0.2	0.2	0.97	0.92	0	0	0	0	0	0
8/23/2024 13:22	67402	WAKE_T2	0	0	0	0	0	0	-0.23	-0.2	2	2	0	1200	1200	0
8/23/2024 13:22	67401	WAKE_T2	4	4	0	0.48	0.25	-0.23	-0.79	-0.8	0	0	0	0	0	0
8/23/2024 13:23	67605	WARW_T1	12	5	-7	0.42	0.5	0.08	0	0	0	0	0	0	0	0
8/23/2024 13:23	67603	WARW_T1	1	0	-1	0.4	0	-0.4	0.25	0.23	0	0	0	0	0	0
8/23/2024 13:24	56504	ROCK_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
8/23/2024 13:24	56501	ROCK_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
8/23/2024 13:26	51304	WIND_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
8/23/2024 13:26	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 13:26	61501	EPET_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
8/23/2024 13:26	61504	EPET_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/23/2024 13:26	61506	EPET_T2	0	0	0	0	0	0	-0.24	-0.34	1	1	0	900	900	0
8/23/2024 13:27	10805	OHHI_T2	1	1	0	8.5	8.1	-0.4	-0.76	-0.91	1	1	0	1200	1200	0
8/23/2024 13:28	67602	WARW_T2	0	0	0	0	0	0	0.36	0.39	1	1	0	300	300	0
8/23/2024 13:28	46402	FLEM_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
8/23/2024 13:28	46401	FLEM_T2	4	2	-2	0.9	1.5	0.6	0	0	0	0	0	0	0	0
8/23/2024 13:28	53501	EVIL_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	1	1	0	600	600	0
8/23/2024 13:28	29402	BELT_T1	132	157	25	0.52	0.65	0.13	0	0	0	0	0	0	0	0
8/23/2024 13:28	29401	BELT_T1	3	3	0	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
8/23/2024 13:29	29401	BELT_T1	3	3	0	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
8/23/2024 13:29	24105	EHAZ_T1	4	4	0	6.8	6.83	0.03	0	0	0	0	0	0	0	0
8/23/2024 13:29	29402	BELT_T1	132	157	25	0.52	0.65	0.13	0	0	0	0	0	0	0	0
8/23/2024 13:29	24101	EHAZ_T1	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/23/2024 13:29	10805	OHHI_T2	1	1	0	8.5	8.1	-0.4	-0.76	-0.91	1	1	0	1200	1200	0
8/23/2024 13:29	53501	EVIL_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	1	1	0	600	600	0
8/23/2024 13:29	24104	EHAZ_T1	1	1	0	0.2	0.2	0	-0.73	-0.73	1	1	0	1200	1200	0
8/23/2024 13:30	13502	MCMI_T1	1	1	0	1.3	0.3	-1	0	0	0	0	0	0	0	0
8/23/2024 13:31	63401	HONY_T1	0	0	0	0	0	0	0.24	0.32	1	1	0	600	600	0
8/23/2024 13:33	20603	GRWO_T2	0	0	0	0	0	0	-0.45	-0.44	1	1	0	900	900	0
8/23/2024 13:33	13503	MCMI_T2	7	7	0	0.51	0.3	-0.21	0.32	0.35	0	0	0	0	0	0
8/23/2024 13:34	51201	MTON_T1	0	1	1	0	0.1	0.1	0.28	0.25	0	0	0	0	0	0
8/23/2024 13:35	52102	MEIS_T1	1	1	0	0.7	0.5	-0.2	0	0	1	1	0	450	450	0
8/23/2024 13:35	65901	SAKR_T2	1	1	0	7.4	7.9	0.5	-0.64	-0.6	1	1	0	900	900	0
8/23/2024 13:40	66701	STRA_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/23/2024 13:40	11601	CEAL_T1	1	3	2	1	0.6	-0.4	0	0	1	1	0	1200	1200	0
8/23/2024 13:40	11604	CEAL_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/23/2024 13:40	57401	SPAN_T1	6	5	-1	0.88	0.78	-0.1	-0.58	-0.47	1	1	0	600	600	0
8/23/2024 13:40	66703	STRA_T1	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
8/23/2024 13:40	57403	SPAN_T1	6	5	-1	0.5	0.42	-0.08	0	0	0	0	0	0	0	0
8/23/2024 13:41	59101	WALK_T2	1	0	-1	0.3	0	-0.3	1.39	2.31	0	0	0	0	0	0
8/23/2024 13:41	59102	WALK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/23/2024 13:43	23902	ERMO_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
8/23/2024 13:44	41305	FISH_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
8/23/2024 13:44	41301	FISH_T1	3	3	0	1.23	2.17	0.94	0	0	0	0	0	0	0	0
8/23/2024 13:44	53501	EVIL_T2	0	1	1	0	0.3	0.3	-0.01	-0.01	1	1	0	600	600	0
8/23/2024 13:45	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 13:45	49804	UNIV_T1	2	3	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
8/23/2024 13:45	49803	UNIV_T1	3	3	0	2.1	2.03	-0.07	-1.94	-1.9	0	0	0	0	0	0
8/23/2024 13:45	60504	NMAN_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
8/23/2024 13:46	46101	MACI_T2	0	0	0	0	0	0	0.11	0.15	1	1	0	1200	1200	0
8/23/2024 13:46	53501	EVIL_T2	1	1	0	0.2	0.5	0.3	-0.01	-0.01	1	1	0	600	600	0
8/23/2024 13:46	16002	DORN_T2	0	0	0	0	0	0	-0.41	-0.36	1	1	0	1200	1200	0
8/23/2024 13:47	56504	ROCK_T2	0	0	0	0	0	0	0.16	0.1	0	0	0	0	0	0
8/23/2024 13:47	56501	ROCK_T2	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
8/23/2024 13:48	63602	LETO_T1	1	0	-1	0.5	0	-0.5	0.01	-0.01	0	0	0	0	0	0
8/23/2024 13:48	22905	HARW_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
8/23/2024 13:48	22903	HARW_T1	0	21	21	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 13:48	22901	HARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/23/2024 13:48	56501	ROCK_T2	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
8/23/2024 13:48	56504	ROCK_T2	0	0	0	0	0	0	0.16	0.1	0	0	0	0	0	0
8/23/2024 13:49	63804	HEMP_T1	1	1	0	7.1	7.1	0	-0.18	-0.16	0	0	0	0	0	0
8/23/2024 13:49	56504	ROCK_T2	0	0	0	0	0	0	0.16	0.1	0	0	0	0	0	0
8/23/2024 13:49	63801	HEMP_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/23/2024 13:49	49803	UNIV_T1	3	3	0	2.1	2.03	-0.07	-3.88	-3.8	0	0	0	0	0	0
8/23/2024 13:49	63802	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 13:49	49804	UNIV_T1	2	3	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
8/23/2024 13:49	56501	ROCK_T2	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
8/23/2024 13:50	13502	MCMI_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/23/2024 13:50	66703	STRA_T1	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
8/23/2024 13:50	66701	STRA_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/23/2024 13:50	13501	MCMI_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
8/23/2024 13:51	46506	LOHA_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/23/2024 13:51	55002	NEWP_T1	5	6	1	0.96	0.83	-0.13	0	0	0	0	0	0	0	0
8/23/2024 13:51	55001	NEWP_T1	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
8/23/2024 13:51	46504	LOHA_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/23/2024 13:52	55002	NEWP_T1	5	6	1	0.96	0.83	-0.13	0	0	0	0	0	0	0	0
8/23/2024 13:52	55001	NEWP_T1	0	0	0	0	0	0	0.04	0.13	0	0	0	0	0	0
8/23/2024 13:53	55001	NEWP_T1	0	0	0	0	0	0	0.04	0.13	0	0	0	0	0	0
8/23/2024 13:53	55002	NEWP_T1	5	6	1	0.96	0.83	-0.13	0	0	0	0	0	0	0	0
8/23/2024 13:53	10705	CATA_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
8/23/2024 13:54	55002	NEWP_T1	5	6	1	0.96	0.83	-0.13	0	0	0	0	0	0	0	0
8/23/2024 13:54	55001	NEWP_T1	0	0	0	0	0	0	0.04	0.13	0	0	0	0	0	0
8/23/2024 13:55	14801	TREI_T2	8	5	-3	0.53	0.64	0.11	0.04	0.1	0	0	0	0	0	0
8/23/2024 13:55	14802	TREI_T2	3	1	-2	0.27	0.6	0.33	0	0	0	0	0	0	0	0
8/23/2024 13:58	20401	ASHF_T2	2	4	2	0.2	0.25	0.05	0	0	0	0	0	0	0	0
8/23/2024 13:58	44801	EDAN_T2	65	61	-4	0.53	0.52	-0.01	-1.4	-1.37	0	0	0	0	0	0
8/23/2024 13:58	20402	ASHF_T2	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/23/2024 13:58	20403	ASHF_T2	10	5	-5	0.6	0.76	0.16	0.58	0.55	0	0	0	0	0	0
8/23/2024 13:59	24102	EHAZ_T1	0	0	0	0	0	0	0.64	0.66	0	0	0	0	0	0
8/23/2024 13:59	24105	EHAZ_T1	4	4	0	7.13	7.18	0.05	0	0	0	0	0	0	0	0
8/23/2024 13:59	24101	EHAZ_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 13:59	44801	EDAN_T2	65	61	-4	0.53	0.52	-0.01	-1.4	-1.37	0	0	0	0	0	0
8/23/2024 13:59	24104	EHAZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/23/2024 14:00	44801	EDAN_T2	60	51	-9	0.49	0.5	0.01	-1.4	-1.37	0	0	0	0	0	0
8/23/2024 14:01	60101	COCA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/23/2024 14:01	10102	ALLE_T2	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
8/23/2024 14:01	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 14:01	60102	COCA_T1	0	0	0	0	0	0	-0.78	0.13	3	2	-1	2100	1200	-900
8/23/2024 14:01	10206	ALLE_T2	1	1	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
8/23/2024 14:03	51202	MTON_T2	0	1	1	0	0.7	0.7	0.39	0.44	0	0	0	0	0	0
8/23/2024 14:03	41902	REED_T1	1	1	0	0.7	0.6	-0.1	1.27	1.27	0	0	0	0	0	0
8/23/2024 14:03	45702	LIND_T2	2	2	0	0.95	0.9	-0.05	-0.34	-0.33	0	0	0	0	0	0
8/23/2024 14:04	52402	GRPA_T2	3	7	4	0.27	0.36	0.09	0	0	0	0	0	0	0	0
8/23/2024 14:04	56504	ROCK_T2	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
8/23/2024 14:04	56501	ROCK_T2	1	2	1	1.4	0.55	-0.85	0	0	0	0	0	0	0	0
8/23/2024 14:04	63602	LETO_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
8/23/2024 14:04	52403	GRPA_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
8/23/2024 14:05	48302	ORWI_T2	2	2	0	0.3	0.35	0.05	-0.34	-0.32	0	0	0	0	0	0
8/23/2024 14:05	60504	NMAN_T2	2	2	0	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
8/23/2024 14:05	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 14:08	21705	SUBU_T1	1	1	0	6.2	5.5	-0.7	0	0	0	0	0	0	0	0
8/23/2024 14:08	21701	SUBU_T1	1	1	0	6.8	6.4	-0.4	0	0	0	0	0	0	0	0
8/23/2024 14:08	21704	SUBU_T1	0	0	0	0	0	0	-1.98	-2.02	2	2	0	2400	2400	0
8/23/2024 14:09	55101	WERT_T1	0	0	0	0	0	0	-1.74	-1.55	4	4	0	3300	3300	0
8/23/2024 14:09	55001	NEWP_T1	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
8/23/2024 14:09	27604	PIRI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 14:09	55002	NEWP_T1	6	6	0	0.78	0.9	0.12	0	0	0	0	0	0	0	0
8/23/2024 14:10	46002	BERW_T2	0	0	0	0	0	0	-0.94	-1.2	2	2	0	1800	1800	0
8/23/2024 14:10	55002	NEWP_T1	6	6	0	0.78	0.9	0.12	0	0	0	0	0	0	0	0
8/23/2024 14:10	67001	STHI_T2	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
8/23/2024 14:10	55001	NEWP_T1	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
8/23/2024 14:11	62105	ELAN_T1	0	1	1	0	0.9	0.9	0.72	0.72	0	0	0	0	0	0
8/23/2024 14:11	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 14:11	62607	ENGL_T1	0	0	0	0	0	0	-0.79	-0.75	1	1	0	300	300	0
8/23/2024 14:11	21501	CEAV_T2	0	0	0	0	0	0	1.03	0.98	1	1	0	1200	1200	0
8/23/2024 14:11	11101	EGYP_T1	1	1	0	0.6	0.1	-0.5	-0.06	0.06	1	1	0	1200	1200	0
8/23/2024 14:11	61803	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 14:11	61801	EELI_T2	0	1	1	0	0.1	0.1	-0.57	-0.55	2	2	0	1200	1200	0
8/23/2024 14:11	52202	DEVO_T2	0	0	0	0	0	0	-2.15	-2.07	0	0	0	0	0	0
8/23/2024 14:11	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/23/2024 14:11	11102	EGYP_T1	3	2	-1	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
8/23/2024 14:11	66504	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/23/2024 14:11	11104	EGYP_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 14:11	61802	EELI_T2	5	4	-1	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
8/23/2024 14:11	66505	SMAN_T2	1	0	-1	0.5	0	-0.5	1.26	1.48	6	4	-2	3400	3000	-400
8/23/2024 14:11	66502	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/23/2024 14:12	14203	EALL_T1	1	0	-1	0.1	0	-0.1	0.24	0.26	1	1	0	1200	1200	0
8/23/2024 14:12	11104	EGYP_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 14:12	45902	AUBU_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/23/2024 14:12	14201	EALL_T1	0	0	0	0	0	0	2.04	1.93	0	0	0	0	0	0
8/23/2024 14:12	61301	EARL_T1	0	0	0	0	0	0	-0.99	-1	2	2	0	1800	1800	0
8/23/2024 14:12	11101	EGYP_T1	1	1	0	0.6	0.1	-0.5	-0.06	0.06	1	1	0	1200	1200	0
8/23/2024 14:12	11102	EGYP_T1	3	2	-1	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
8/23/2024 14:12	46002	BERW_T2	0	0	0	0	0	0	-0.94	-1.2	2	2	0	1800	1800	0
8/23/2024 14:12	61303	EARL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/23/2024 14:12	45901	AUBU_T1	0	0	0	0	0	0	1.91	1.89	0	0	0	0	0	0
8/23/2024 14:12	46004	BERW_T2	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
8/23/2024 14:12	41304	FISH_T2	1	1	0	0	0	0	-0.45	-0.33	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/23/2024 14:13	46002	BERW_T2	0	0	0	0	0	0	-0.94	-1.2	2	2	0	1800	1800	0
8/23/2024 14:13	52202	DEVO_T2	0	0	0	0	0	0	-3.23	-3.11	0	0	0	0	0	0
8/23/2024 14:13	46203	DANV_T2	2	1	-1	2.95	6.3	3.35	0	0	0	0	0	0	0	0
8/23/2024 14:13	16006	DORN_T2	0	0	0	0	0	0	-0.14	0.01	2	2	0	2400	2400	0
8/23/2024 14:13	40201	BEGA_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
8/23/2024 14:13	27604	PIRI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 14:13	45902	AUBU_T1	1	1	0	0.5	0.5	0	-0.63	-0.52	1	1	0	600	600	0
8/23/2024 14:13	46206	DANV_T2	1	1	0	0.7	0.6	-0.1	0.6	0.55	2	2	0	2100	2100	0
8/23/2024 14:13	54505	ENOL_T2	0	0	0	0	0	0	-1.95	-1.86	2	2	0	1200	1200	0
8/23/2024 14:14	46203	DANV_T2	2	1	-1	2.95	6.3	3.35	0	0	0	0	0	0	0	0
8/23/2024 14:14	11407	FARM_T1	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
8/23/2024 14:14	46801	HEPB_T2	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0	0
8/23/2024 14:14	62607	ENGL_T1	0	0	0	0	0	0	-0.79	-0.75	1	1	0	300	300	0
8/23/2024 14:14	11405	FARM_T1	0	0	0	0	0	0	-0.29	-0.3	1	1	0	1200	1200	0
8/23/2024 14:14	46803	HEPB_T2	1	1	0	0.3	0.3	0	0.62	0.66	0	0	0	0	0	0
8/23/2024 14:14	11404	FARM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/23/2024 14:14	46204	DANV_T2	0	0	0	0	0	0	0.01	0.03	1	1	0	1200	1200	0
8/23/2024 14:14	54505	ENOL_T2	0	0	0	0	0	0	-1.95	-1.86	2	2	0	1200	1200	0
8/23/2024 14:14	44801	EDAN_T2	60	51	-9	0.49	0.5	0.01	-1.37	-1.37	0	0	0	0	0	0
8/23/2024 14:14	16006	DORN_T2	0	0	0	0	0	0	-0.14	0.01	2	2	0	2400	2400	0
8/23/2024 14:14	11402	FARM_T1	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/23/2024 14:14	46206	DANV_T2	1	1	0	0.7	0.6	-0.1	1.19	1.1	4	4	0	4200	4200	0
8/23/2024 14:15	61803	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 14:15	54505	ENOL_T2	0	0	0	0	0	0	-1.95	-1.86	2	2	0	1200	1200	0
8/23/2024 14:15	46004	BERW_T2	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
8/23/2024 14:15	62606	ENGL_T1	0	0	0	0	0	0	-0.47	-0.41	1	1	0	900	900	0
8/23/2024 14:15	63305	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 14:15	46803	HEPB_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/23/2024 14:15	16006	DORN_T2	0	0	0	0	0	0	-0.07	0.01	1	1	0	1200	1200	0
8/23/2024 14:15	63303	GREE_T1	0	0	0	0	0	0	-0.25	-0.26	2	2	0	1800	1800	0
8/23/2024 14:15	46801	HEPB_T2	2	2	0	0.85	0.75	-0.1	0.96	1.04	0	0	0	0	0	0
8/23/2024 14:15	45902	AUBU_T1	1	1	0	0.5	0.1	-0.4	-0.63	-0.52	1	1	0	600	600	0
8/23/2024 14:15	46503	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 14:15	61302	EARL_T1	0	0	0	0	0	0	-0.11	-0.11	3	3	0	2700	2700	0
8/23/2024 14:15	46504	LOHA_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/23/2024 14:15	61001	DONV_T1	1	1	0	0.6	1	0.4	0.16	0.21	0	0	0	0	0	0
8/23/2024 14:15	61301	EARL_T1	0	0	0	0	0	0	-1.98	-1.99	4	4	0	3600	3600	0
8/23/2024 14:15	11407	FARM_T1	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
8/23/2024 14:15	11402	FARM_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/23/2024 14:15	63306	GREE_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/23/2024 14:15	41304	FISH_T2	1	1	0	0	0	0	-0.91	-0.65	0	0	0	0	0	0
8/23/2024 14:15	62604	ENGL_T1	0	0	0	0	0	0	-0.51	-0.51	1	1	0	600	600	0
8/23/2024 14:15	52202	DEVO_T2	0	0	0	0	0	0	-1.08	-1.04	0	0	0	0	0	0
8/23/2024 14:15	54503	ENOL_T2	0	0	0	0	0	0	-1.03	-1	1	1	0	600	600	0
8/23/2024 14:15	54501	ENOL_T2	0	0	0	0	0	0	-0.29	-0.29	1	1	0	600	600	0
8/23/2024 14:15	44801	EDAN_T2	51	44	-7	0.5	0.38	-0.12	-1.37	-1.37	0	0	0	0	0	0
8/23/2024 14:15	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 14:15	61303	EARL_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/23/2024 14:15	46506	LOHA_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
8/23/2024 14:15	61801	EELI_T2	0	1	1	0	0.1	0.1	-0.29	-0.27	1	1	0	600	600	0
8/23/2024 14:15	61802	EELI_T2	4	4	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
8/23/2024 14:16	62607	ENGL_T1	0	0	0	0	0	0	-0.79	-0.75	1	1	0	300	300	0
8/23/2024 14:16	54501	ENOL_T2	0	0	0	0	0	0	-0.59	-0.59	2	2	0	1200	1200	0
8/23/2024 14:16	46206	DANV_T2	1	1	0	0.6	0.6	0	0.6	0.55	2	2	0	2100	2100	0
8/23/2024 14:16	16006	DORN_T2	0	0	0	0	0	0	-0.21	0.02	3	3	0	3600	3600	0
8/23/2024 14:16	41502	FAIR_T2	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
8/23/2024 14:16	54503	ENOL_T2	0	0	0	0	0	0	-3.1	-3.01	3	3	0	1800	1800	0
8/23/2024 14:16	65702	RVIL_T2	0	0	0	0	0	0	-0.19	-0.21	1	1	0	600	600	0
8/23/2024 14:16	54505	ENOL_T2	0	0	0	0	0	0	-1.95	-1.86	2	2	0	1200	1200	0
8/23/2024 14:16	14203	EALL_T1	0	0	0	0	0	0	0.24	0.26	1	1	0	1200	1200	0
8/23/2024 14:16	46203	DANV_T2	1	1	0	5.8	6.4	0.6	0	0	0	0	0	0	0	0
8/23/2024 14:17	46801	HEPB_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/23/2024 14:17	14201	EALL_T1	0	0	0	0	0	0	1.02	0.97	0	0	0	0	0	0
8/23/2024 14:17	46801	HEPB_T2	2	2	0	0.85	0.75	-0.1	0.96	1.04	0	0	0	0	0	0
8/23/2024 14:17	16006	DORN_T2	0	0	0	0	0	0	-0.07	0.01	1	1	0	1200	1200	0
8/23/2024 14:17	54502	ENOL_T2	0	0	0	0	0	0	-1.1	-1.09	1	1	0	600	600	0
8/23/2024 14:18	54503	ENOL_T2	0	0	0	0	0	0	-3.1	-3.01	3	3	0	1800	1800	0
8/23/2024 14:18	46503	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 14:18	46506	LOHA_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
8/23/2024 14:18	46504	LOHA_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/23/2024 14:18	57702	PAXT_T1	1	1	0	0.2	0.4	0.2	0.22	0.24	0	0	0	0	0	0
8/23/2024 14:18	54505	ENOL_T2	0	0	0	0	0	0	-5.84	-5.58	6	6	0	3600	3600	0
8/23/2024 14:18	41304	FISH_T2	1	1	0	0	0	0	-0.45	-0.33	0	0	0	0	0	0
8/23/2024 14:18	48901	FOSP_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/23/2024 14:18	48902	FOSP_T2	0	0	0	0	0	0	0.31	0.25	0	0	0	0	0	0
8/23/2024 14:18	46802	HEPB_T1	1	1	0	0.7	0.8	0.1	-0.03	-0.02	0	0	0	0	0	0
8/23/2024 14:18	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 14:19	51702	OBER_T1	3	4	1	1.6	1.78	0.18	-0.4	-0.35	1	1	0	600	600	0
8/23/2024 14:19	11402	FARM_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/23/2024 14:19	65603	QVIL_T2	0	0	0	0	0	0	-0.27	-0.14	0	0	0	0	0	0
8/23/2024 14:19	50506	MECH_T1	0	0	0	0	0	0	0.3	0.34	1	1	0	900	900	0
8/23/2024 14:19	54503	ENOL_T2	0	0	0	0	0	0	-1.03	-1	1	1	0	600	600	0
8/23/2024 14:19	50501	MECH_T1	4	0	-4	0.43	0	-0.43	0	0	0	0	0	0	0	0
8/23/2024 14:19	52501	PROG_T1	0	0	0	0	0	0	0.41	0.4	1	1	0	300	300	0
8/23/2024 14:19	46203	DANV_T2	1	1	0	5.8	6.4	0.6	0	0	0	0	0	0	0	0
8/23/2024 14:19	11405	FARM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 14:19	50502	MECH_T1	2	1	-1	2.65	1.8	-0.85	0	0	0	0	0	0	0	0
8/23/2024 14:19	46206	DANV_T2	1	1	0	0.6	0.6	0	0.6	0.55	2	2	0	2100	2100	0
8/23/2024 14:19	51704	OBER_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/23/2024 14:19	54505	ENOL_T2	0	0	0	0	0	0	-0.97	-0.93	1	1	0	600	600	0
8/23/2024 14:19	52503	PROG_T2	0	0	0	0	0	0	-0.29	-0.14	1	1	0	900	900	0
8/23/2024 14:20	52402	GRPA_T2	4	8	4	0.33	0.37	0.04	0	0	0	0	0	0	0	0
8/23/2024 14:20	57702	PAXT_T1	1	1	0	0.2	0.4	0.2	0.22	0.24	0	0	0	0	0	0
8/23/2024 14:20	54505	ENOL_T2	0	0	0	0	0	0	-0.97	-0.93	1	1	0	600	600	0
8/23/2024 14:20	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 14:20	44201	POIN_T1	2	2	0	0.15	0.25	0.1	-2.22	-2.63	4	4	0	4200	4200	0
8/23/2024 14:20	15601	NSTR_T2	3	3	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/23/2024 14:20	52502	PROG_T2	0	0	0	0	0	0	-0.28	-0.3	1	1	0	900	900	0
8/23/2024 14:20	13002	NBET_T2	0	0	0	0	0	0	-1.16	-1	2	2	0	2400	2400	0
8/23/2024 14:20	46504	LOHA_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/23/2024 14:20	46506	LOHA_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
8/23/2024 14:20	52403	GRPA_T2	0	2	2	0	0	0	0.34	0.38	0	0	0	0	0	0
8/23/2024 14:20	15602	NSTR_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
8/23/2024 14:20	66103	REAM_T2	0	0	0	0	0	0	1.09	0.97	1	1	0	1200	1200	0
8/23/2024 14:20	46503	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 14:21	50506	MECH_T1	0	0	0	0	0	0	0.3	0.34	1	1	0	900	900	0
8/23/2024 14:21	54203	PENN_T1	5	18	13	0.52	0.69	0.17	-0.01	-0.01	1	1	0	600	600	0
8/23/2024 14:21	64204	KINZ_T1	2	1	-1	0.45	1	0.55	0	0	0	0	0	0	0	0
8/23/2024 14:21	51704	OBER_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/23/2024 14:21	44201	POIN_T1	2	2	0	0.15	0.25	0.1	-3.94	-3.91	6	6	0	6300	6300	0
8/23/2024 14:21	42903	MIDD_T2	2	2	0	1.15	1.55	0.4	0.66	0.7	0	0	0	0	0	0
8/23/2024 14:21	52402	GRPA_T2	4	8	4	0.33	0.37	0.04	-0.68	-0.68	0	0	0	0	0	0
8/23/2024 14:21	52502	PROG_T2	0	0	0	0	0	0	-0.57	-0.6	2	2	0	1800	1800	0
8/23/2024 14:21	51702	OBER_T1	3	4	1	1.6	1.78	0.18	-0.4	-0.35	1	1	0	600	600	0
8/23/2024 14:21	42902	MIDD_T2	2	1	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
8/23/2024 14:21	50501	MECH_T1	4	0	-4	0.43	0	-0.43	0	0	0	0	0	0	0	0
8/23/2024 14:21	43202	MVIL_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
8/23/2024 14:21	50502	MECH_T1	2	1	-1	2.65	1.8	-0.85	0	0	0	0	0	0	0	0
8/23/2024 14:21	52404	GRPA_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
8/23/2024 14:21	64201	KINZ_T1	0	0	0	0	0	0	-0.76	-0.82	4	4	0	2100	2100	0
8/23/2024 14:21	64101	REFR_T1	0	0	0	0	0	0	0.47	0.62	0	0	0	0	0	0
8/23/2024 14:21	64203	KINZ_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/23/2024 14:21	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 14:21	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 14:21	52403	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 14:21	54201	PENN_T1	3	6	3	1.17	1.1	-0.07	0	0	0	0	0	0	0	0
8/23/2024 14:22	51202	MTON_T2	1	1	0	0.2	1.1	0.9	0	0	0	0	0	0	0	0
8/23/2024 14:22	51204	MTON_T2	0	0	0	0	0	0	-0.22	-0.19	1	1	0	600	600	0
8/23/2024 14:22	44201	POIN_T1	2	2	0	0.15	0.25	0.1	-1.31	-1.3	2	2	0	2100	2100	0
8/23/2024 14:22	66505	SMAN_T2	0	0	0	0	0	0	1.48	1.36	4	6	2	3000	3400	400
8/23/2024 14:22	52503	PROG_T2	0	0	0	0	0	0	-0.14	-0.12	1	1	0	900	900	0
8/23/2024 14:22	52402	GRPA_T2	4	8	4	0.33	0.37	0.04	-0.68	-0.65	0	0	0	0	0	0
8/23/2024 14:22	52403	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 14:22	64101	REFR_T1	0	0	0	0	0	0	0.24	0.31	0	0	0	0	0	0
8/23/2024 14:22	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/23/2024 14:22	66502	SMAN_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
8/23/2024 14:22	66504	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/23/2024 14:23	64101	REFR_T1	0	0	0	0	0	0	0.47	0.62	0	0	0	0	0	0
8/23/2024 14:23	51906	COPA_T1	0	0	0	0	0	0	-0.57	-0.63	2	2	0	1500	1500	0
8/23/2024 14:23	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/23/2024 14:23	44201	POIN_T1	2	2	0	0.15	0.25	0.1	-1.31	-1.3	2	2	0	2100	2100	0
8/23/2024 14:23	66502	SMAN_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
8/23/2024 14:23	52403	GRPA_T2	0	2	2	0	0	0	0.38	0.41	0	0	0	0	0	0
8/23/2024 14:23	52402	GRPA_T2	4	8	4	0.33	0.37	0.04	0	0	0	0	0	0	0	0
8/23/2024 14:23	66504	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/23/2024 14:23	51904	COPA_T1	5	5	0	0.6	0.74	0.14	0	0	0	0	0	0	0	0
8/23/2024 14:28	53501	EVIL_T2	1	2	1	0.5	0.75	0.25	-0.01	-0.01	1	1	0	600	600	0
8/23/2024 14:31	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 14:31	51906	COPA_T1	0	0	0	0	0	0	-0.57	-0.63	2	2	0	1500	1500	0
8/23/2024 14:31	51904	COPA_T1	5	5	0	0.72	0.84	0.12	0	0	0	0	0	0	0	0
8/23/2024 14:32	67402	WAKE_T2	0	0	0	0	0	0	-0.06	-0.05	1	1	0	600	600	0
8/23/2024 14:32	66504	SMAN_T2	1	1	0	0.3	0.2	-0.1	-1.02	-1.01	1	1	0	1200	1200	0
8/23/2024 14:32	57401	SPAN_T1	7	7	0	2	1.91	-0.09	-0.12	-0.21	1	1	0	600	600	0
8/23/2024 14:32	21705	SUBU_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
8/23/2024 14:32	57104	SPHI_T2	3	3	0	0.33	0.77	0.44	-0.42	-0.37	0	0	0	0	0	0
8/23/2024 14:32	64503	LAVI_T1	0	0	0	0	0	0	-1.15	-1.15	1	1	0	1200	1200	0
8/23/2024 14:32	64101	REFR_T1	0	0	0	0	0	0	1.19	1.56	0	0	0	0	0	0
8/23/2024 14:32	57403	SPAN_T1	16	5	-11	0.43	0.82	0.39	0	0	0	0	0	0	0	0
8/23/2024 14:32	44201	POIN_T1	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
8/23/2024 14:32	66502	SMAN_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/23/2024 14:32	21703	SUBU_T1	0	0	0	0	0	0	0.96	1	0	0	0	0	0	0
8/23/2024 14:32	57106	SPHI_T2	3	3	0	0.73	0.3	-0.43	0	0	0	0	0	0	0	0
8/23/2024 14:32	66501	SMAN_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/23/2024 14:32	21701	SUBU_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
8/23/2024 14:32	67401	WAKE_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
8/23/2024 14:32	52502	PROG_T2	0	0	0	0	0	0	-0.3	-0.28	1	1	0	900	900	0
8/23/2024 14:34	53501	EVIL_T2	1	3	2	0.2	0.8	0.6	-0.01	-0.01	1	1	0	600	600	0
8/23/2024 14:43	44801	EDAN_T2	41	45	4	0.37	0.38	0.01	-1.37	-1.34	0	0	0	0	0	0
8/23/2024 14:44	22101	EDEL_T2	0	0	0	0	0	0	0.87	0.9	1	1	0	1200	1200	0
8/23/2024 14:47	44801	EDAN_T2	44	40	-4	0.35	0.38	0.03	-1.37	-1.34	0	0	0	0	0	0
8/23/2024 14:47	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
8/23/2024 14:48	63602	LETO_T1	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
8/23/2024 14:48	56501	ROCK_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
8/23/2024 14:48	23401	HONE_T2	0	1	1	0	0.1	0.1	0.25	0.19	0	0	0	0	0	0
8/23/2024 14:48	56504	ROCK_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
8/23/2024 14:48	23402	HONE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 14:48	11407	FARM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 14:49	42002	MNVL_T2	1	1	0	3.6	3.1	-0.5	0	0	0	0	0	0	0	0
8/23/2024 14:49	42001	MNVL_T2	48	63	15	0.33	0.4	0.07	0.1	0.09	0	0	0	0	0	0
8/23/2024 14:53	64101	REFR_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
8/23/2024 14:54	64101	REFR_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
8/23/2024 14:56	64101	REFR_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
8/23/2024 15:03	43108	SMIL_T2	0	1	1	0	0	0	-0.8	-0.8	1	1	0	1200	1200	0
8/23/2024 15:03	43103	SMIL_T2	4	3	-1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
8/23/2024 15:03	43101	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 15:05	48301	ORWI_T1	2	2	0	3.35	3.5	0.15	0.03	0.02	1	1	0	900	900	0
8/23/2024 15:05	43103	SMIL_T2	4	3	-1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
8/23/2024 15:05	43108	SMIL_T2	0	1	1	0	0	0	-0.8	-0.8	1	1	0	1200	1200	0
8/23/2024 15:05	43101	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 15:06	43104	SMIL_T2	0	0	0	0	0	0	-0.57	-0.57	1	1	0	300	300	0
8/23/2024 15:06	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 15:06	52403	GRPA_T2	2	2	0	0.4	0	-0.4	0.41	0.42	0	0	0	0	0	0
8/23/2024 15:06	43101	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 15:06	48301	ORWI_T1	2	2	0	3.35	3.5	0.15	0.02	-0.01	1	1	0	900	900	0
8/23/2024 15:06	42601	TUSC_T1	1	0	-1	0.1	0	-0.1	-1.09	-1.11	2	2	0	1800	1800	0
8/23/2024 15:06	52402	GRPA_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
8/23/2024 15:06	43103	SMIL_T2	4	3	-1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
8/23/2024 15:07	42601	TUSC_T1	1	0	-1	0.1	0	-0.1	-1.09	-1.11	2	2	0	1800	1800	0
8/23/2024 15:07	52403	GRPA_T2	2	2	0	0.4	0	-0.4	0.42	0.4	0	0	0	0	0	0
8/23/2024 15:07	21206	ECAR_T2	1	1	0	8.1	8.1	0	0.42	0.4	0	0	0	0	0	0
8/23/2024 15:07	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 15:07	52402	GRPA_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
8/23/2024 15:08	54602	SUMM_T2	1	0	-1	3.6	0	-3.6	-2.07	-2.06	1	1	0	600	600	0
8/23/2024 15:08	54603	SUMM_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 15:08	13202	PALM_T2	0	0	0	0	0	0	-0.97	-0.91	3	3	0	3000	3000	0
8/23/2024 15:20	43103	SMIL_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
8/23/2024 15:20	43101	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/23/2024 15:20	43108	SMIL_T2	1	0	-1	0.5	0	-0.5	-0.8	-0.93	1	1	0	1200	1200	0
8/23/2024 15:21	52402	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 15:21	52403	GRPA_T2	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
8/23/2024 15:21	67201	TEHI_T1	2	2	0	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
8/23/2024 15:21	67203	TEHI_T1	0	0	0	0	0	0	2.56	2.53	2	2	0	1500	1500	0
8/23/2024 15:21	52404	GRPA_T2	0	0	0	0	0	0	0.15	0.2	0	0	0	0	0	0
8/23/2024 15:24	24602	VARD_T2	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
8/23/2024 15:24	24603	VARD_T2	5	7	2	0.96	0.64	-0.32	0	0	0	0	0	0	0	0
8/23/2024 15:25	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 15:25	59101	WALK_T2	1	0	-1	0.7	0	-0.7	0.41	0.15	0	0	0	0	0	0
8/23/2024 15:25	57403	SPAN_T1	3	3	0	0.97	0.57	-0.4	0	0	0	0	0	0	0	0
8/23/2024 15:25	57401	SPAN_T1	3	3	0	3.2	2.5	-0.7	-0.08	-0.09	1	1	0	600	600	0
8/23/2024 15:26	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 15:26	59101	WALK_T2	1	0	-1	0.7	0	-0.7	0.2	0.07	0	0	0	0	0	0
8/23/2024 15:28	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 15:28	44302	BEAV_T2	5	4	-1	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
8/23/2024 15:28	44301	BEAV_T2	2	2	0	0.35	0.15	-0.2	0.46	0.49	1	1	0	600	600	0
8/23/2024 15:28	59101	WALK_T2	1	0	-1	0.7	0	-0.7	0.2	0.07	0	0	0	0	0	0
8/23/2024 15:30	61301	EARL_T1	0	0	0	0	0	0	-0.99	-0.97	2	2	0	1800	1800	0
8/23/2024 15:31	13501	MCMI_T1	0	0	0	0	0	0	0.32	0.38	0	0	0	0	0	0
8/23/2024 15:31	13502	MCMI_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
8/23/2024 15:31	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
8/23/2024 15:31	60101	COCA_T1	0	0	0	0	0	0	0.81	0.75	0	0	0	0	0	0
8/23/2024 15:33	46203	DANV_T2	1	1	0	6	6.4	0.4	0	0	0	0	0	0	0	0
8/23/2024 15:33	46206	DANV_T2	2	4	2	1.4	1.75	0.35	1.77	1.95	2	2	0	2100	2100	0
8/23/2024 15:33	41902	REED_T1	1	2	1	0.7	1	0.3	1.33	1.36	0	0	0	0	0	0
8/23/2024 15:34	67503	WEWI_T2	1	1	0	6	5.9	-0.1	0.32	0.35	0	0	0	0	0	0
8/23/2024 15:34	67502	WEWI_T2	1	3	2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/23/2024 15:36	51704	OBER_T1	0	0	0	0	0	0	-1.29	-1.06	1	1	0	1200	1200	0
8/23/2024 15:36	51702	OBER_T1	3	2	-1	1.27	2.25	0.98	0	0	0	0	0	0	0	0
8/23/2024 15:38	51704	OBER_T1	0	0	0	0	0	0	-1.06	-1.26	1	1	0	1200	1200	0
8/23/2024 15:38	51702	OBER_T1	3	2	-1	1.27	2.25	0.98	0	0	0	0	0	0	0	0
8/23/2024 15:40	21202	ECAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 15:40	21206	ECAR_T2	1	2	1	8	8.2	0.2	0.32	0.24	0	0	0	0	0	0
8/23/2024 15:40	64101	REFR_T1	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
8/23/2024 15:40	21204	ECAR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/23/2024 15:41	64101	REFR_T1	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
8/23/2024 15:42	64101	REFR_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
8/23/2024 15:44	64101	REFR_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
8/23/2024 15:46	46203	DANV_T2	1	1	0	5.6	8.1	2.5	0	0	0	0	0	0	0	0
8/23/2024 15:46	52002	LING_T2	0	0	0	0	0	0	0.69	0.6	0	0	0	0	0	0
8/23/2024 15:46	46206	DANV_T2	4	2	-2	1.03	1.65	0.62	1.95	1.89	2	2	0	2100	2100	0
8/23/2024 15:46	61301	EARL_T1	0	0	0	0	0	0	-0.97	-0.99	2	2	0	1800	1800	0
8/23/2024 15:46	52004	LING_T2	2	2	0	5.55	5.55	0	0	0	0	0	0	0	0	0
8/23/2024 15:47	46206	DANV_T2	4	2	-2	1.03	1.65	0.62	1.95	1.89	2	2	0	2100	2100	0
8/23/2024 15:47	46203	DANV_T2	1	1	0	5.6	8.1	2.5	0	0	0	0	0	0	0	0
8/23/2024 15:47	50506	MECH_T1	0	0	0	0	0	0	-0.24	-0.25	1	1	0	900	900	0
8/23/2024 15:47	50502	MECH_T1	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
8/23/2024 15:48	59001	MIFF_T1	2	3	1	0.9	0.97	0.07	0	0	0	0	0	0	0	0
8/23/2024 15:48	59003	MIFF_T1	0	1	1	0	0.3	0.3	0.09	0.04	0	0	0	0	0	0
8/23/2024 15:48	59002	MIFF_T1	6	5	-1	0.8	0.92	0.12	0	0	0	0	0	0	0	0
8/23/2024 15:49	52004	LING_T2	2	2	0	5.55	5.55	0	0	0	0	0	0	0	0	0
8/23/2024 15:49	41902	REED_T1	2	1	-1	0.6	1.2	0.6	1.36	1.3	0	0	0	0	0	0
8/23/2024 15:49	52002	LING_T2	0	0	0	0	0	0	0.69	0.6	0	0	0	0	0	0
8/23/2024 15:50	58401	MORO_T1	0	0	0	0	0	0	-1.39	-1.5	2	2	0	1500	1500	0
8/23/2024 15:50	46203	DANV_T2	1	1	0	5.6	8.1	2.5	0	0	0	0	0	0	0	0
8/23/2024 15:50	46206	DANV_T2	4	2	-2	1.03	1.65	0.62	1.95	1.89	2	2	0	2100	2100	0
8/23/2024 15:51	42903	MIDD_T2	2	2	0	1.65	1.4	-0.25	0	0	0	0	0	0	0	0
8/23/2024 15:51	42902	MIDD_T2	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
8/23/2024 15:52	15601	NSTR_T2	3	3	0	0.77	0.67	-0.1	0	0	0	0	0	0	0	0
8/23/2024 15:52	58401	MORO_T1	0	0	0	0	0	0	-1.5	-2.15	2	3	1	1500	2100	600
8/23/2024 15:52	15603	NSTR_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
8/23/2024 15:55	64101	REFR_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
8/23/2024 15:57	14308	SUMN_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
8/23/2024 15:57	14303	SUMN_T1	4	3	-1	5.6	7.6	2	0	0	0	0	0	0	0	0
8/23/2024 15:58	14702	TREX_T2	0	0	0	0	0	0	2.86	2.95	0	0	0	0	0	0
8/23/2024 15:59	64101	REFR_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
8/23/2024 16:00	67503	WEWI_T2	1	1	0	5.8	6.2	0.4	0.37	0.39	0	0	0	0	0	0
8/23/2024 16:00	67502	WEWI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/23/2024 16:01	51402	LYKE_T1	5	2	-3	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/23/2024 16:01	21901	HUMB_T1	0	0	0	0	0	0	-2.03	-2.01	0	0	0	0	0	0
8/23/2024 16:01	51401	LYKE_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
8/23/2024 16:02	23202	HIRU_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/23/2024 16:02	23203	HIRU_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
8/23/2024 16:02	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 16:08	64101	REFR_T1	0	0	0	0	0	0	0.36	0.32	0	0	0	0	0	0
8/23/2024 16:13	62607	ENGL_T1	0	0	0	0	0	0	-0.64	-0.63	1	1	0	300	300	0
8/23/2024 16:15	41902	REED_T1	1	4	3	1.3	0.8	-0.5	1.31	1.37	0	0	0	0	0	0
8/23/2024 16:15	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 16:18	13501	MCMI_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
8/23/2024 16:18	48302	ORWI_T2	2	2	0	0.65	0.65	0	-0.29	-0.28	0	0	0	0	0	0
8/23/2024 16:18	20201	JERM_T1	0	0	0	0	0	0	-0.34	-0.09	2	2	0	2400	2400	0
8/23/2024 16:20	64902	MILL_T2	0	0	0	0	0	0	-0.8	-0.81	1	1	0	900	900	0
8/23/2024 16:21	14604	SWHI_T1	0	0	0	0	0	0	-0.82	-0.82	2	2	0	2100	2100	0
8/23/2024 16:23	14601	SWHI_T1	0	0	0	0	0	0	-0.82	-0.89	0	0	0	0	0	0
8/23/2024 16:23	42204	SHEN_T2	0	0	0	0	0	0	-0.59	-0.59	1	1	0	1200	1200	0
8/23/2024 16:23	14603	SWHI_T1	0	0	0	0	0	0	-0.54	-0.48	1	1	0	600	600	0
8/23/2024 16:23	64902	MILL_T2	0	0	0	0	0	0	-0.81	-0.79	1	1	0	900	900	0
8/23/2024 16:23	14605	SWHI_T1	0	0	0	0	0	0	1.83	1.89	1	1	0	1200	1200	0
8/23/2024 16:23	42201	SHEN_T2	0	0	0	0	0	0	0.8	0.81	0	0	0	0	0	0
8/23/2024 16:24	14601	SWHI_T1	0	0	0	0	0	0	-0.82	-0.89	0	0	0	0	0	0
8/23/2024 16:24	14603	SWHI_T1	0	0	0	0	0	0	-0.54	-0.48	1	1	0	600	600	0
8/23/2024 16:25	14603	SWHI_T1	0	0	0	0	0	0	-1.08	-0.97	2	2	0	1200	1200	0
8/23/2024 16:25	14602	SWHI_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
8/23/2024 16:25	14601	SWHI_T1	0	0	0	0	0	0	-1.64	-1.79	0	0	0	0	0	0
8/23/2024 16:26	14601	SWHI_T1	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
8/23/2024 16:27	11104	EGYP_T1	6	7	1	1.95	2.2	0.25	1.1	1.11	0	0	0	0	0	0
8/23/2024 16:27	14605	SWHI_T1	0	0	0	0	0	0	1.83	1.89	1	1	0	1200	1200	0
8/23/2024 16:27	11102	EGYP_T1	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/23/2024 16:29	11104	EGYP_T1	6	7	1	1.95	2.2	0.25	1.1	1.11	0	0	0	0	0	0
8/23/2024 16:29	11102	EGYP_T1	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/23/2024 16:31	58202	NEWV_T1	0	1	1	0	0	0	0.96	0.97	0	0	0	0	0	0
8/23/2024 16:31	63203	MGTN_T1	0	0	0	0	0	0	-0.51	-0.55	2	2	0	1200	1200	0
8/23/2024 16:32	25402	LAHA_T2	0	0	0	0	0	0	-0.25	-0.49	0	0	0	0	0	0
8/23/2024 16:33	51402	LYKE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 16:33	51401	LYKE_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
8/23/2024 16:42	55101	WERT_T1	0	0	0	0	0	0	-4.59	-4.63	8	8	0	6600	6600	0
8/23/2024 16:44	47001	HUGH_T2	3	3	0	5.67	7.67	2	0.41	0.42	0	0	0	0	0	0
8/23/2024 16:47	41301	FISH_T1	3	2	-1	1.43	1.4	-0.03	0.07	0.08	0	0	0	0	0	0
8/23/2024 16:47	67503	WEWI_T2	1	1	0	6	5.9	-0.1	0.4	0.41	0	0	0	0	0	0
8/23/2024 16:49	24702	FLND_T2	2	0	-2	0.1	0	-0.1	0.07	0.3	1	1	0	1200	1200	0
8/23/2024 16:50	12701	MACU_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
8/23/2024 16:54	64101	REFR_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
8/23/2024 17:00	12701	MACU_T1	0	0	0	0	0	0	0.4	0.35	0	0	0	0	0	0
8/23/2024 17:09	65604	QVIL_T2	0	0	0	0	0	0	0.65	0.67	0	0	0	0	0	0
8/23/2024 17:17	54505	ENOL_T2	0	0	0	0	0	0	-0.82	-0.77	1	1	0	600	600	0
8/23/2024 17:20	65503	MOJO_T2	0	0	0	0	0	0	-0.41	-0.4	1	1	0	900	900	0
8/23/2024 17:20	52002	LING_T2	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
8/23/2024 17:20	52004	LING_T2	2	2	0	5.2	5.25	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/23/2024 17:21	52002	LING_T2	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
8/23/2024 17:21	52004	LING_T2	2	2	0	5.2	5.25	0.05	0	0	0	0	0	0	0	0
8/23/2024 17:28	64101	REFR_T1	0	2	2	0	0	0	0.32	0.33	0	0	0	0	0	0
8/23/2024 17:32	46203	DANV_T2	1	1	0	7.2	7.2	0	-0.77	-0.84	0	0	0	0	0	0
8/23/2024 17:32	46206	DANV_T2	2	2	0	1.6	1	-0.6	0	0	0	0	0	0	0	0
8/23/2024 17:33	61703	ELIZ_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
8/23/2024 17:33	61701	ELIZ_T1	1	1	0	0.9	1.6	0.7	5.32	4.8	0	0	0	0	0	0
8/23/2024 17:34	46203	DANV_T2	1	1	0	7.2	7.2	0	-0.39	-0.42	0	0	0	0	0	0
8/23/2024 17:34	46206	DANV_T2	2	2	0	1.6	1	-0.6	0	0	0	0	0	0	0	0
8/23/2024 17:42	46401	FLEM_T2	35	38	3	0.33	0.29	-0.04	-0.16	-0.17	0	0	0	0	0	0
8/23/2024 17:42	46402	FLEM_T2	20	20	0	0.56	0.57	0.01	0	0	0	0	0	0	0	0
8/23/2024 17:42	45602	WOOL_T1	0	0	0	0	0	0	0.96	0.98	0	0	0	0	0	0
8/23/2024 17:46	16006	DORN_T2	2	6	4	0.35	0.33	-0.02	0.04	0.03	1	1	0	1200	1200	0
8/23/2024 17:46	16002	DORN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 17:46	65503	MOJO_T2	0	0	0	0	0	0	-0.34	-0.38	1	1	0	900	900	0
8/23/2024 17:47	20802	LOPO_T1	1	1	0	0.2	0.2	0	-0.47	-0.47	1	1	0	600	600	0
8/23/2024 17:47	63403	HONY_T2	2	4	2	0.8	1.2	0.4	-0.82	-0.84	1	1	0	600	600	0
8/23/2024 17:47	63305	GREE_T1	1	8	7	0.2	0.45	0.25	0	0	0	0	0	0	0	0
8/23/2024 17:47	63304	GREE_T1	0	0	0	0	0	0	-0.92	-0.92	0	0	0	0	0	0
8/23/2024 17:48	63305	GREE_T1	1	8	7	0.2	0.45	0.25	0	0	0	0	0	0	0	0
8/23/2024 17:48	63304	GREE_T1	0	0	0	0	0	0	-0.92	-0.92	0	0	0	0	0	0
8/23/2024 17:52	24603	VARD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 17:52	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 17:52	24602	VARD_T2	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
8/23/2024 17:54	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 17:57	64101	REFR_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
8/23/2024 17:59	61701	ELIZ_T1	1	1	0	1.6	1.6	0	3.46	3.6	0	0	0	0	0	0
8/23/2024 17:59	61703	ELIZ_T1	1	1	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
8/23/2024 18:01	61701	ELIZ_T1	1	1	0	1	2	1	0	0	0	0	0	0	0	0
8/23/2024 18:01	61703	ELIZ_T1	1	0	-1	1.8	0	-1.8	-1.97	-2.53	2	2	0	2100	2100	0
8/23/2024 18:02	20802	LOPO_T1	1	1	0	0.2	0.2	0	-0.47	-0.47	1	1	0	600	600	0
8/23/2024 18:03	46602	LACR_T1	2	5	3	0	0.16	0.16	-0.63	-0.68	0	0	0	0	0	0
8/23/2024 18:03	46203	DANV_T2	1	1	0	6.9	7.1	0.2	-0.84	-0.82	0	0	0	0	0	0
8/23/2024 18:03	46206	DANV_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
8/23/2024 18:08	24602	VARD_T2	2	1	-1	0.8	1.5	0.7	0	0	0	0	0	0	0	0
8/23/2024 18:08	24801	VALM_T1	0	0	0	0	0	0	-0.16	-0.09	0	0	0	0	0	0
8/23/2024 18:08	24603	VARD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 18:08	66701	STRA_T1	0	0	0	0	0	0	0.81	0.92	2	2	0	1200	1200	0
8/23/2024 18:15	63804	HEMP_T1	1	1	0	6.4	6.1	-0.3	-0.28	-0.28	0	0	0	0	0	0
8/23/2024 18:15	67502	WEWI_T2	0	0	0	0	0	0	-0.72	-0.83	1	1	0	900	900	0
8/23/2024 18:15	67503	WEWI_T2	1	1	0	6.4	6.6	0.2	0	0	0	0	0	0	0	0
8/23/2024 18:16	67502	WEWI_T2	0	0	0	0	0	0	-0.77	-0.83	1	1	0	900	900	0
8/23/2024 18:16	67503	WEWI_T2	1	1	0	6.4	6.6	0.2	0	0	0	0	0	0	0	0
8/23/2024 18:18	46101	MACI_T2	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
8/23/2024 18:19	46102	MACI_T1	0	0	0	0	0	0	0.97	0.9	0	0	0	0	0	0
8/23/2024 18:19	20601	GRWO_T2	17	13	-4	0.54	0.71	0.17	0	0	0	0	0	0	0	0
8/23/2024 18:19	20603	GRWO_T2	0	0	0	0	0	0	-0.51	-0.47	1	1	0	900	900	0
8/23/2024 18:20	65502	MOJO_T2	0	0	0	0	0	0	-0.91	-0.88	1	1	0	900	900	0
8/23/2024 18:23	43304	WATS_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/23/2024 18:23	43302	WATS_T2	4	4	0	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
8/23/2024 18:23	43301	WATS_T2	1	0	-1	0.1	0	-0.1	-0.3	-0.31	1	1	0	900	900	0
8/23/2024 18:31	46503	LOHA_T1	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
8/23/2024 18:31	46504	LOHA_T1	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
8/23/2024 18:31	46501	LOHA_T1	1	1	0	2.6	0	-2.6	0	0	0	0	0	0	0	0
8/23/2024 18:34	24105	EHAZ_T1	4	4	0	6.73	6.53	-0.2	0	0	0	0	0	0	0	0
8/23/2024 18:34	24102	EHAZ_T1	0	1	1	0	0.2	0.2	0.16	0.19	0	0	0	0	0	0
8/23/2024 18:35	10705	CATA_T2	0	0	0	0	0	0	-0.64	-0.69	0	0	0	0	0	0
8/23/2024 18:35	52501	PROG_T1	0	1	1	0	0.1	0.1	-0.91	-0.95	1	1	0	300	300	0
8/23/2024 18:39	24201	PROV_T3	6	15	9	1.32	0.75	-0.57	-1.05	-1.11	1	1	0	1200	1200	0
8/23/2024 18:39	24204	PROV_T3	1	2	1	5.7	2.85	-2.85	0	0	0	0	0	0	0	0
8/23/2024 18:39	24205	PROV_T3	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
8/23/2024 18:43	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/23/2024 18:43	67805	WLAN_T1	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
8/23/2024 18:47	61303	EARL_T1	1	0	-1	2.5	0	-2.5	0.43	0.39	0	0	0	0	0	0
8/23/2024 18:47	61302	EARL_T1	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
8/23/2024 18:49	22701	MINO_T1	0	0	0	0	0	0	-0.69	-0.71	1	1	0	600	600	0
8/23/2024 18:49	40101	HUNT_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/23/2024 18:53	61802	EELI_T2	0	0	0	0	0	0	-0.34	-0.4	0	0	0	0	0	0
8/23/2024 18:57	40801	EXCH_T2	0	0	0	0	0	0	-0.18	-0.18	1	1	0	1200	1200	0
8/23/2024 18:58	11102	EGYP_T1	1	1	0	0.2	0.4	0.2	0.06	0.07	0	0	0	0	0	0
8/23/2024 18:58	11104	EGYP_T1	6	5	-1	1.92	2.14	0.22	0	0	0	0	0	0	0	0
8/23/2024 19:00	50107	HARR_T3	1	1	0	6.9	6.3	-0.6	0	0	0	0	0	0	0	0
8/23/2024 19:00	50105	HARR_T3	6	6	0	6.43	6.13	-0.3	0	0	0	0	0	0	0	0
8/23/2024 19:00	50201	HARR_T3	1	1	0	0.9	1	0.1	-0.42	-0.42	1	1	0	1200	1200	0
8/23/2024 19:01	66301	MCGO_T2	0	0	0	0	0	0	-1.5	-1.47	0	0	0	0	0	0
8/23/2024 19:01	66303	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 19:01	29402	BELT_T1	61	76	15	0.39	0.52	0.13	0	0	0	0	0	0	0	0
8/23/2024 19:06	13101	NHAM_T1	0	0	0	0	0	0	-3.91	-4.08	4	4	0	4200	4200	0
8/23/2024 19:09	20402	ASHF_T2	4	7	3	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/23/2024 19:09	20403	ASHF_T2	0	2	2	0	0.25	0.25	0.54	0.51	0	0	0	0	0	0
8/23/2024 19:09	20401	ASHF_T2	6	10	4	0.47	0.53	0.06	0	0	0	0	0	0	0	0
8/23/2024 19:20	54505	ENOL_T2	0	0	0	0	0	0	-0.89	-0.93	1	1	0	600	600	0
8/23/2024 19:21	65603	QVIL_T2	0	0	0	0	0	0	-0.62	0.33	0	0	0	0	0	0
8/23/2024 20:11	55101	WERT_T1	0	0	0	0	0	0	-1.7	-1.78	3	3	0	2400	2400	0
8/23/2024 20:13	15204	SFAR_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
8/23/2024 20:16	29402	BELT_T1	79	114	35	0.54	0.66	0.12	0	0	0	0	0	0	0	0
8/23/2024 20:16	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 20:18	42302	MOWR_T2	0	0	0	0	0	0	0.61	0.63	0	0	0	0	0	0
8/23/2024 20:26	67605	WARW_T1	8	23	15	0.35	0.44	0.09	0	0	0	0	0	0	0	0
8/23/2024 20:26	67603	WARW_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
8/23/2024 20:38	59201	THOM_T1	21	25	4	0.54	0.62	0.08	0	0	0	0	0	0	0	0
8/23/2024 20:38	59202	THOM_T1	260	339	79	0.32	0.4	0.08	0	0	0	0	0	0	0	0
8/23/2024 20:43	59202	THOM_T1	260	339	79	0.32	0.4	0.08	0	0	0	0	0	0	0	0
8/23/2024 20:43	59201	THOM_T1	21	25	4	0.54	0.62	0.08	0	0	0	0	0	0	0	0
8/23/2024 21:19	61701	ELIZ_T1	1	1	0	4.2	3.8	-0.4	1.17	1.35	0	0	0	0	0	0
8/23/2024 21:20	26301	OLFO_T2	0	0	0	0	0	0	0.67	0.64	2	2	0	2400	2400	0
8/23/2024 21:27	15703	TANN_T2	1	1	0	5	4.8	-0.2	0	0	0	0	0	0	0	0
8/23/2024 21:27	15702	TANN_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
8/23/2024 21:28	16302	ALPA_T2	0	0	0	0	0	0	0.87	0.8	0	0	0	0	0	0
8/23/2024 21:29	16302	ALPA_T2	0	0	0	0	0	0	0.87	0.8	0	0	0	0	0	0
8/23/2024 21:29	45302	WBER_T2	0	0	0	0	0	0	1.97	1.96	0	0	0	0	0	0
8/23/2024 21:29	45303	WBER_T2	3	5	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:31	16302	ALPA_T2	0	0	0	0	0	0	0.87	0.8	0	0	0	0	0	0
8/23/2024 21:33	16302	ALPA_T2	0	0	0	0	0	0	0.87	0.8	0	0	0	0	0	0
8/23/2024 21:37	52006	LING_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/23/2024 21:37	52004	LING_T2	2	2	0	6	6.15	0.15	0.25	0.26	0	0	0	0	0	0
8/23/2024 21:37	16006	DORN_T2	0	0	0	0	0	0	0.99	0.95	0	0	0	0	0	0
8/23/2024 21:37	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:38	13005	NBET_T2	0	0	0	0	0	0	-0.58	-0.62	1	1	0	1200	1200	0
8/23/2024 21:38	15603	NSTR_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
8/23/2024 21:38	16402	MOPO_T1	0	0	0	0	0	0	0.06	0.14	0	0	0	0	0	0
8/23/2024 21:38	15601	NSTR_T2	8	6	-2	0.68	0.88	0.2	0	0	0	0	0	0	0	0
8/23/2024 21:39	16102	BING_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/23/2024 21:39	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/23/2024 21:39	15702	TANN_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
8/23/2024 21:39	11604	CEAL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/23/2024 21:39	16101	BING_T2	0	0	0	0	0	0	0.55	0.5	0	0	0	0	0	0
8/23/2024 21:39	15703	TANN_T2	1	3	2	4.9	1.63	-3.27	0	0	0	0	0	0	0	0
8/23/2024 21:40	24801	VALM_T1	0	0	0	0	0	0	-0.29	-0.34	0	0	0	0	0	0
8/23/2024 21:42	63602	LETO_T1	0	2	2	0	0.1	0.1	-0.15	-0.17	0	0	0	0	0	0
8/23/2024 21:42	25402	LAHA_T2	0	0	0	0	0	0	-0.83	-0.85	0	0	0	0	0	0
8/23/2024 21:42	13905	SEID_T1	0	0	0	0	0	0	-0.83	-0.82	1	1	0	1200	1200	0
8/23/2024 21:43	15604	NSTR_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
8/23/2024 21:43	64902	MILL_T2	0	0	0	0	0	0	-0.44	-0.43	1	1	0	900	900	0
8/23/2024 21:43	52502	PROG_T2	0	0	0	0	0	0	-0.38	-0.42	1	1	0	900	900	0
8/23/2024 21:43	10805	CHHI_T2	1	1	0	7.6	7.4	-0.2	-0.84	-0.88	1	1	0	600	600	0
8/23/2024 21:43	12701	MACU_T1	2	4	2	0.15	0.33	0.18	0.17	0.17	0	0	0	0	0	0
8/23/2024 21:43	27502	WEIS_T2	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
8/23/2024 21:44	66901	SHIL_T2	41	209	168	0.12	0.2	0.08	0	0	0	0	0	0	0	0
8/23/2024 21:44	16102	BING_T2	1	0	-1	0.3	0	-0.3	-0.21	1.04	1	0	-1	1200	0	-1200
8/23/2024 21:44	20601	GRWO_T2	1	1	0	2.1	0.9	-1.2	0	0	0	0	0	0	0	0
8/23/2024 21:44	14502	SCHO_T1	0	0	0	0	0	0	0.67	0.62	0	0	0	0	0	0
8/23/2024 21:44	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:44	66703	STRA_T1	0	5	5	0	0.28	0.28	0	0	0	0	0	0	0	0
8/23/2024 21:44	66701	STRA_T1	0	0	0	0	0	0	0.77	0.76	0	0	0	0	0	0
8/23/2024 21:44	20603	GRWO_T2	11	40	29	0.11	0.16	0.05	-0.59	-0.61	1	1	0	900	900	0
8/23/2024 21:44	11104	EGYP_T1	0	0	0	0	0	0	0.69	0.66	0	0	0	0	0	0
8/23/2024 21:44	66903	SHIL_T2	0	0	0	0	0	0	-0.73	-0.8	0	0	0	0	0	0
8/23/2024 21:44	23202	HIRU_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
8/23/2024 21:44	13501	MCMI_T1	0	0	0	0	0	0	0.46	0.43	0	0	0	0	0	0
8/23/2024 21:44	66902	SHIL_T2	8	77	69	0.15	0.15	0	0	0	0	0	0	0	0	0
8/23/2024 21:44	48302	ORWI_T2	2	2	0	0.4	0.8	0.4	0.11	0.05	0	0	0	0	0	0
8/23/2024 21:44	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:44	16006	DORN_T2	0	0	0	0	0	0	0.99	0.95	0	0	0	0	0	0
8/23/2024 21:44	23201	HIRU_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
8/23/2024 21:44	11103	EGYP_T1	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
8/23/2024 21:45	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
8/23/2024 21:46	45902	AUBU_T1	8	76	68	0.15	0.21	0.06	-1.11	-1.11	1	1	0	600	600	0
8/23/2024 21:46	56501	ROCK_T2	2	2	0	0.35	0.5	0.15	0.54	0.5	0	0	0	0	0	0
8/23/2024 21:46	41304	FISH_T2	1	1	0	0	0	0	0.39	0.38	0	0	0	0	0	0
8/23/2024 21:47	11103	EGYP_T1	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
8/23/2024 21:47	63501	HEID_TBK1-2	56	55	-1	1.69	2.08	0.39	0.6	0.56	0	0	0	0	0	0
8/23/2024 21:47	61701	ELIZ_T1	1	1	0	3.8	3.8	0	1.61	1.38	0	0	0	0	0	0
8/23/2024 21:47	65604	QVIL_T2	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
8/23/2024 21:47	27604	PIRI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:47	14702	TREX_T2	0	0	0	0	0	0	0.93	0.87	0	0	0	0	0	0
8/23/2024 21:47	11507	FREE_T2	0	0	0	0	0	0	0.39	1.01	1	0	-1	600	0	-600
8/23/2024 21:48	63501	HEID_TBK1-2	56	55	-1	1.69	2.08	0.39	0.6	0.56	0	0	0	0	0	0
8/23/2024 21:48	13002	NBET_T2	0	0	0	0	0	0	-1.46	-1.47	2	2	0	2400	2400	0
8/23/2024 21:48	66504	SMAN_T2	0	0	0	0	0	0	-0.38	-0.45	0	0	0	0	0	0
8/23/2024 21:48	60101	COCA_T1	0	0	0	0	0	0	0.94	0.87	0	0	0	0	0	0
8/23/2024 21:48	63602	LETO_T1	0	46	46	0	0.17	0.17	-0.15	-0.17	0	0	0	0	0	0
8/23/2024 21:48	29402	BELT_T1	62	87	25	0.43	0.55	0.12	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/23/2024 21:48	67502	WEWI_T2	6	250	244	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
8/23/2024 21:48	15703	TANN_T2	1	3	2	4.8	1.63	-3.17	0	0	0	0	0	0	0	0
8/23/2024 21:48	20403	ASHF_T2	1	5	4	0.1	0.14	0.04	0.27	0.26	0	0	0	0	0	0
8/23/2024 21:48	47001	HUGH_T2	5	4	-1	5.62	6.95	1.33	-0.72	-0.78	0	0	0	0	0	0
8/23/2024 21:48	11101	EGYP_T1	0	0	0	0	0	0	1	1.01	0	0	0	0	0	0
8/23/2024 21:48	41304	FISH_T2	1	1	0	0	0	0	0.39	0.38	0	0	0	0	0	0
8/23/2024 21:48	67503	WEWI_T2	1	1	0	7.5	8.1	0.6	0.22	0.09	0	0	0	0	0	0
8/23/2024 21:48	14801	TREI_T2	31	48	17	0.21	0.21	0	0	0	0	0	0	0	0	0
8/23/2024 21:48	15702	TANN_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
8/23/2024 21:48	20401	ASHF_T2	6	8	2	0.5	0.55	0.05	0	0	0	0	0	0	0	0
8/23/2024 21:48	14603	SWHI_T1	0	0	0	0	0	0	-0.71	-0.79	1	1	0	600	600	0
8/23/2024 21:48	48901	FOSP_T2	0	0	0	0	0	0	-0.41	-0.4	1	1	0	600	600	0
8/23/2024 21:48	20402	ASHF_T2	1	22	21	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
8/23/2024 21:48	10504	CRAC_T1	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
8/23/2024 21:48	14802	TREI_T2	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
8/23/2024 21:49	29402	BELT_T1	62	87	25	0.43	0.55	0.12	0	0	0	0	0	0	0	0
8/23/2024 21:49	42002	MNVL_T2	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
8/23/2024 21:49	14303	SUMN_T1	3	3	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
8/23/2024 21:49	64204	KINZ_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
8/23/2024 21:49	67002	STHI_T2	0	0	0	0	0	0	0.15	0.09	1	1	0	600	600	0
8/23/2024 21:49	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:49	48302	ORWI_T2	2	2	0	0.65	0.8	0.15	0	0	0	0	0	0	0	0
8/23/2024 21:49	13503	MCMI_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
8/23/2024 21:49	42001	MNVL_T2	236	259	23	0.63	0.8	0.17	-0.14	-0.12	0	0	0	0	0	0
8/23/2024 21:49	24201	PROV_T3	1	1	0	7.3	7.2	-0.1	0.01	0.01	0	0	0	0	0	0
8/23/2024 21:49	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:49	48301	ORWI_T1	2	2	0	5.6	5.7	0.1	-0.53	-0.54	1	1	0	900	900	0
8/23/2024 21:49	20603	GRWO_T2	35	35	0	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
8/23/2024 21:49	20601	GRWO_T2	1	1	0	1.5	0.1	-1.4	0.82	0.83	0	0	0	0	0	0
8/23/2024 21:49	16402	MOPO_T1	0	0	0	0	0	0	0.06	0.14	0	0	0	0	0	0
8/23/2024 21:49	12602	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:49	64201	KINZ_T1	4	1	-3	0.38	0.8	0.42	0.43	0.49	1	1	0	300	300	0
8/23/2024 21:49	13501	MCMI_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
8/23/2024 21:49	24204	PROV_T3	1	1	0	5.9	6.6	0.7	0	0	0	0	0	0	0	0
8/23/2024 21:49	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:49	63403	HONY_T2	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
8/23/2024 21:49	67503	WEWI_T2	1	1	0	7.5	8.1	0.6	0	0	0	0	0	0	0	0
8/23/2024 21:49	12801	MICK_T1	0	0	0	0	0	0	-0.96	-0.98	1	1	0	600	600	0
8/23/2024 21:49	14308	SUMN_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
8/23/2024 21:49	51004	NHAR_T1	1	1	0	5.6	5.5	-0.1	-0.96	-1.04	0	0	0	0	0	0
8/23/2024 21:49	14203	EALL_T1	0	0	0	0	0	0	-0.17	-0.02	2	2	0	2400	2400	0
8/23/2024 21:49	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 21:49	51002	NHAR_T1	1	9	8	1.6	0.31	-1.29	0	0	0	0	0	0	0	0
8/23/2024 21:49	61001	DONV_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
8/23/2024 21:49	67502	WEWI_T2	6	250	244	0.22	0.18	-0.04	-1.21	-1.24	1	1	0	900	900	0
8/23/2024 21:49	63402	HONY_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/23/2024 21:49	64202	KINZ_T1	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
8/23/2024 21:49	61301	EARL_T1	0	0	0	0	0	0	-0.43	-0.4	1	1	0	900	900	0
8/23/2024 21:49	46102	MACI_T1	0	0	0	0	0	0	0.8	0.81	0	0	0	0	0	0
8/23/2024 21:49	20802	LOPO_T1	0	0	0	0	0	0	-0.49	-0.5	1	1	0	600	600	0
8/23/2024 21:49	11901	ETEX_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
8/23/2024 21:49	10705	CATA_T2	0	0	0	0	0	0	-1.02	-1.07	0	0	0	0	0	0
8/23/2024 21:49	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
8/23/2024 21:49	12807	MICK_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
8/23/2024 21:49	14702	TREX_T2	0	0	0	0	0	0	0.93	0.87	0	0	0	0	0	0
8/23/2024 21:49	12606	MACA_T1	0	0	0	0	0	0	-0.01	-0.04	1	1	0	900	900	0
8/23/2024 21:50	62607	ENGL_T1	0	0	0	0	0	0	-1.45	-1.58	2	2	0	600	600	0
8/23/2024 21:50	12604	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:50	46802	HEPB_T1	1	1	0	0.6	1.2	0.6	-0.12	-0.18	0	0	0	0	0	0
8/23/2024 21:50	61301	EARL_T1	0	0	0	0	0	0	-0.43	-0.4	1	1	0	900	900	0
8/23/2024 21:50	60101	COCA_T1	0	0	0	0	0	0	0.47	0.43	0	0	0	0	0	0
8/23/2024 21:50	57403	SPAN_T1	10	40	30	0.16	0.38	0.22	0	0	0	0	0	0	0	0
8/23/2024 21:50	57401	SPAN_T1	2	2	0	0.9	1.3	0.4	-0.38	-0.63	1	1	0	600	600	0
8/23/2024 21:50	14404	SSLA_T1	17	17	0	1.22	1.18	-0.04	0	0	0	0	0	0	0	0
8/23/2024 21:50	28703	HAML_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/23/2024 21:50	23001	SAJO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:50	52006	LING_T2	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/23/2024 21:50	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
8/23/2024 21:50	16006	DORN_T2	0	1	1	0	0	0	0.99	0.95	0	0	0	0	0	0
8/23/2024 21:50	12602	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:50	23401	HONE_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
8/23/2024 21:50	63804	HEMP_T1	1	1	0	5.4	5.3	-0.1	-0.22	-0.23	0	0	0	0	0	0
8/23/2024 21:50	26803	JAPI_T1	0	0	0	0	0	0	-0.02	-0.06	1	1	0	900	900	0
8/23/2024 21:50	60803	BUCK_T1	12	13	1	0.35	0.47	0.12	0	0	0	0	0	0	0	0
8/23/2024 21:50	64902	MILL_T2	0	0	0	0	0	0	-0.44	-0.43	1	1	0	900	900	0
8/23/2024 21:50	14603	SWHI_T1	0	0	0	0	0	0	-0.71	-0.79	1	1	0	600	600	0
8/23/2024 21:50	14601	SWHI_T1	0	0	0	0	0	0	-1.28	-1.28	0	0	0	0	0	0
8/23/2024 21:50	53501	EVIL_T2	2	2	0	0.9	0.95	0.05	-0.01	-0.01	1	1	0	600	600	0
8/23/2024 21:50	14801	TREI_T2	31	48	17	0.21	0.21	0	-0.3	-0.24	0	0	0	0	0	0
8/23/2024 21:50	53502	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:50	14403	SSLA_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
8/23/2024 21:50	60801	BUCK_T1	28	53	25	0.19	0.32	0.13	-0.14	-0.15	0	0	0	0	0	0
8/23/2024 21:50	28702	HAML_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
8/23/2024 21:50	28704	HAML_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/23/2024 21:50	52002	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 21:50	52004	LING_T2	2	2	0	6	6.15	0.15	0.25	0.26	0	0	0	0	0	0
8/23/2024 21:51	48301	ORWI_T1	2	2	0	5.6	5.7	0.1	-0.54	-0.55	1	1	0	900	900	0
8/23/2024 21:51	16103	BING_T2	0	0	0	0	0	0	-1.25	-1.3	1	1	0	900	900	0
8/23/2024 21:51	15604	NSTR_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
8/23/2024 21:51	20402	ASHF_T2	1	22	21	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
8/23/2024 21:51	20401	ASHF_T2	6	8	2	0.5	0.55	0.05	0	0	0	0	0	0	0	0
8/23/2024 21:51	20403	ASHF_T2	1	5	4	0.1	0.14	0.04	0.26	0.22	0	0	0	0	0	0
8/23/2024 21:51	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:51	44701	MUNC_T2	33	222	189	0.19	0.21	0.02	0	0	0	0	0	0	0	0
8/23/2024 21:51	53501	EVIL_T2	2	2	0	0.9	0.95	0.05	-0.01	-0.01	1	1	0	600	600	0
8/23/2024 21:51	66901	SHIL_T2	118	209	91	0.15	0.2	0.05	-1.55	-1.59	1	1	0	1200	1200	0
8/23/2024 21:51	14602	SWHI_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
8/23/2024 21:51	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:51	63401	HONY_T1	0	0	0	0	0	0	0.1	-0.19	2	2	0	1200	1200	0
8/23/2024 21:51	24201	PROV_T3	1	1	0	7.3	7.2	-0.1	0.01	0	0	0	0	0	0	0
8/23/2024 21:51	41304	FISH_T2	1	1	0	0	0	0	0.38	0.39	0	0	0	0	0	0
8/23/2024 21:51	44702	MUNC_T2	99	116	17	0.38	0.47	0.09	0	0	0	0	0	0	0	0
8/23/2024 21:51	63804	HEMP_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
8/23/2024 21:51	21206	ECAR_T2	1	1	0	8.3	8.2	-0.1	0	0	0	0	0	0	0	0
8/23/2024 21:51	24204	PROV_T3	1	1	0	5.9	6.6	0.7	0	0	0	0	0	0	0	0
8/23/2024 21:51	64101	REFR_T1	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
8/23/2024 21:51	57403	SPAN_T1	10	40	30	0.16	0.38	0.22	0	0	0	0	0	0	0	0
8/23/2024 21:51	20603	GRWO_T2	35	35	0	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
8/23/2024 21:51	45902	AUBU_T1	8	76	68	0.15	0.21	0.06	-2.23	-2.21	2	2	0	1200	1200	0
8/23/2024 21:51	57401	SPAN_T1	2	2	0	0.9	1.3	0.4	-0.38	-0.63	1	1	0	600	600	0
8/23/2024 21:51	66902	SHIL_T2	25	72	47	0.14	0.14	0	0	0	0	0	0	0	0	0
8/23/2024 21:51	67605	WARW_T1	20	23	3	0.42	0.41	-0.01	-1.05	-1.13	0	0	0	0	0	0
8/23/2024 21:51	63404	HONY_T1	17	11	-6	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
8/23/2024 21:51	20601	GRWO_T2	1	1	0	1.5	0.1	-1.4	0.83	0.79	0	0	0	0	0	0
8/23/2024 21:51	44703	MUNC_T2	2	2	0	1.3	1.4	0.1	0.9	0.84	0	0	0	0	0	0
8/23/2024 21:51	63802	HEMP_T1	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
8/23/2024 21:51	66504	SMAN_T2	0	0	0	0	0	0	-0.22	-0.28	0	0	0	0	0	0
8/23/2024 21:51	21204	ECAR_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/23/2024 21:51	53502	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:51	61802	EELI_T2	0	0	0	0	0	0	-0.6	-0.65	0	0	0	0	0	0
8/23/2024 21:51	27604	PIRI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:51	65207	PRIN_T4	10	7	-3	0.19	0.26	0.07	0	0	0	0	0	0	0	0
8/23/2024 21:51	65206	PRIN_T4	17	2	-15	0.24	0.1	-0.14	0	0	0	0	0	0	0	0
8/23/2024 21:51	14203	EALL_T1	0	0	0	0	0	0	-0.01	-0.03	1	1	0	1200	1200	0
8/23/2024 21:51	20201	JERM_T1	0	2	2	0	0.1	0.1	-0.43	-0.93	2	2	0	2400	2400	0
8/23/2024 21:52	67503	WEWI_T2	1	1	0	7.5	8.1	0.6	0	0	0	0	0	0	0	0
8/23/2024 21:52	62106	ELAN_T1	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/23/2024 21:52	61501	EPET_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
8/23/2024 21:52	56501	ROCK_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
8/23/2024 21:52	25503	MADI_T1	126	173	47	0.46	0.61	0.15	-0.96	-0.97	0	0	0	0	0	0
8/23/2024 21:52	15703	TANN_T2	1	3	2	4.8	1.63	-3.17	0	0	0	0	0	0	0	0
8/23/2024 21:52	59201	THOM_T1	40	28	-12	0.55	0.55	0	0	0	0	0	0	0	0	0
8/23/2024 21:52	14604	SWHI_T1	0	0	0	0	0	0	-0.99	0.33	2	1	-1	2100	900	-1200
8/23/2024 21:52	53902	HALI_T2	1	1	0	5.7	5.9	0.2	-0.14	-0.83	0	0	0	0	0	0
8/23/2024 21:52	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	-1.1	-1.12	1	1	0	600	600	0
8/23/2024 21:52	61506	EPET_T2	0	0	0	0	0	0	0.25	0.14	0	0	0	0	0	0
8/23/2024 21:52	56504	ROCK_T2	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
8/23/2024 21:52	54504	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:52	16006	DORN_T2	0	1	1	0	0	0	0.95	0.95	0	0	0	0	0	0
8/23/2024 21:52	62103	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 21:52	62105	ELAN_T1	28	107	79	0.12	0.14	0.02	0.7	0.65	0	0	0	0	0	0
8/23/2024 21:52	57403	SPAN_T1	10	40	30	0.16	0.38	0.22	0	0	0	0	0	0	0	0
8/23/2024 21:52	59202	THOM_T1	440	353	-87	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
8/23/2024 21:52	20802	LOPO_T1	0	0	0	0	0	0	-0.5	-0.51	1	1	0	600	600	0
8/23/2024 21:52	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:52	53901	HALI_T2	3	1	-2	0.5	0.9	0.4	0	0	0	0	0	0	0	0
8/23/2024 21:52	60101	COCA_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
8/23/2024 21:52	63203	MGTN_T1	0	0	0	0	0	0	-0.27	-0.25	1	1	0	600	600	0
8/23/2024 21:52	64101	REFR_T1	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
8/23/2024 21:52	42601	TUSC_T1	0	0	0	0	0	0	-0.48	-0.47	1	1	0	600	600	0
8/23/2024 21:52	53903	HALI_T2	2	2	0	1.7	1.7	0	0	0	0	0	0	0	0	0
8/23/2024 21:52	67502	WEWI_T2	6	250	244	0.22	0.18	-0.04	-1.24	-1.25	1	1	0	900	900	0
8/23/2024 21:52	15702	TANN_T2	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
8/23/2024 21:52	48901	FOSP_T2	0	0	0	0	0	0	-0.4	-0.41	1	1	0	600	600	0
8/23/2024 21:52	62606	ENGL_T1	0	0	0	0	0	0	-0.47	-0.47	1	1	0	900	900	0
8/23/2024 21:52	60701	BREC_T1	0	0	0	0	0	0	-0.39	-0.4	1	1	0	600	600	0
8/23/2024 21:52	57006	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 21:52	14605	SWHI_T1	0	0	0	0	0	0	1.35	1.35	1	1	0	1200	1200	0
8/23/2024 21:52	62101	ELAN_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/23/2024 21:52	57004	WHHI_T2	0	0	0	0	0	0	-0.4	-0.47	0	0	0	0	0	0
8/23/2024 21:52	57401	SPAN_T1	2	2	0	0.9	1.3	0.4	-0.63	-0.61	1	1	0	600	600	0
8/23/2024 21:52	25501	MADI_T1	3	5	2	1.33	1.08	-0.25	0	0	0	0	0	0	0	0
8/23/2024 21:52	14601	SWHI_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/23/2024 21:53	57403	SPAN_T1	10	40	30	0.16	0.38	0.22	0	0	0	0	0	0	0	0
8/23/2024 21:53	20403	ASHF_T2	1	5	4	0.1	0.14	0.04	0.52	0.45	0	0	0	0	0	0
8/23/2024 21:53	54501	ENOL_T2	0	0	0	0	0	0	-0.31	-0.37	1	1	0	600	600	0
8/23/2024 21:53	20402	ASHF_T2	1	22	21	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
8/23/2024 21:53	51305	WIND_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
8/23/2024 21:53	56501	ROCK_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
8/23/2024 21:53	60101	COCA_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
8/23/2024 21:53	52006	LING_T2	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/23/2024 21:53	63501	HEID_TBK1-2	56	55	-1	1.69	2.08	0.39	0.56	0.53	0	0	0	0	0	0
8/23/2024 21:53	47001	HUGH_T2	5	4	-1	5.62	6.95	1.33	-0.78	-0.81	0	0	0	0	0	0
8/23/2024 21:53	67602	WARW_T2	0	0	0	0	0	0	0.45	0.56	0	0	0	0	0	0
8/23/2024 21:53	21703	SUBU_T1	0	0	0	0	0	0	0.64	0.66	0	0	0	0	0	0
8/23/2024 21:53	20401	ASHF_T2	6	8	2	0.5	0.55	0.05	0	0	0	0	0	0	0	0
8/23/2024 21:53	61701	ELIZ_T1	1	1	0	3.8	3.8	0	0	0	0	0	0	0	0	0
8/23/2024 21:53	12602	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:53	11104	EGYP_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
8/23/2024 21:53	29402	BELT_T1	62	87	25	0.43	0.55	0.12	0	0	0	0	0	0	0	0
8/23/2024 21:53	24603	VARD_T2	7	27	20	0.19	0.2	0.01	0	0	0	0	0	0	0	0
8/23/2024 21:53	21901	HUMB_T1	0	0	0	0	0	0	-0.81	-0.84	0	0	0	0	0	0
8/23/2024 21:53	62607	ENGL_T1	0	0	0	0	0	0	-0.79	-0.79	1	1	0	300	300	0
8/23/2024 21:53	65503	MOJO_T2	0	0	0	0	0	0	-0.12	-0.18	0	0	0	0	0	0
8/23/2024 21:53	21701	SUBU_T1	1	1	0	5.7	6.3	0.6	0	0	0	0	0	0	0	0
8/23/2024 21:53	45902	AUBU_T1	8	76	68	0.15	0.21	0.06	-1.11	-1.1	1	1	0	600	600	0
8/23/2024 21:53	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.24	0	0	0	0	0	0
8/23/2024 21:53	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:53	61801	EELI_T2	0	0	0	0	0	0	-0.09	-0.14	0	0	0	0	0	0
8/23/2024 21:53	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:53	61301	EARL_T1	0	0	0	0	0	0	-0.4	-0.45	1	1	0	900	900	0
8/23/2024 21:53	15602	NSTR_T2	0	0	0	0	0	0	0.01	0.05	0	0	0	0	0	0
8/23/2024 21:53	56504	ROCK_T2	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
8/23/2024 21:53	42601	TUSC_T1	0	0	0	0	0	0	-0.48	-0.47	1	1	0	600	600	0
8/23/2024 21:53	63602	LETO_T1	0	46	46	0	0.17	0.17	-0.17	-0.26	0	0	0	0	0	0
8/23/2024 21:53	52002	LING_T2	0	1	1	0	0.2	0.2	0.23	0.22	0	0	0	0	0	0
8/23/2024 21:53	54504	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:53	21705	SUBU_T1	1	1	0	5.2	5.9	0.7	0	0	0	0	0	0	0	0
8/23/2024 21:53	57401	SPAN_T1	2	2	0	0.9	1.3	0.4	-1.25	-1.21	2	2	0	1200	1200	0
8/23/2024 21:53	12604	MACA_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
8/23/2024 21:53	57002	WHHI_T2	0	0	0	0	0	0	-1.29	-1.32	1	1	0	1200	1200	0
8/23/2024 21:53	24602	VARD_T2	20	27	7	0.29	0.39	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:53	57006	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 21:53	65603	QVIL_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
8/23/2024 21:53	61302	EARL_T1	0	0	0	0	0	0	-0.22	-0.24	2	2	0	1800	1800	0
8/23/2024 21:53	67502	WEWI_T2	6	250	244	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
8/23/2024 21:53	52004	LING_T2	2	2	0	6	6.15	0.15	0	0	0	0	0	0	0	0
8/23/2024 21:53	64101	REFR_T1	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
8/23/2024 21:53	52502	PROG_T2	0	0	0	0	0	0	-0.42	-0.44	1	1	0	900	900	0
8/23/2024 21:53	51301	WIND_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:53	15601	NSTR_T2	5	4	-1	1.04	1.05	0.01	0	0	0	0	0	0	0	0
8/23/2024 21:53	61703	ELIZ_T1	0	0	0	0	0	0	-5.11	-5.36	4	4	0	4200	4200	0
8/23/2024 21:53	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
8/23/2024 21:53	52202	DEVO_T2	0	0	0	0	0	0	-0.51	-1.14	0	0	0	0	0	0
8/23/2024 21:53	67503	WEWI_T2	1	1	0	7.5	8.1	0.6	0.09	0.18	0	0	0	0	0	0
8/23/2024 21:53	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:53	42204	SHEN_T2	0	0	0	0	0	0	-0.6	-0.62	1	1	0	1200	1200	0
8/23/2024 21:53	48901	FOSP_T2	0	0	0	0	0	0	-0.4	-0.41	1	1	0	600	600	0
8/23/2024 21:53	64503	LAVI_T1	0	0	0	0	0	0	-0.48	-0.36	1	1	0	1200	1200	0
8/23/2024 21:54	14605	SWHI_T1	0	0	0	0	0	0	1.35	1.35	1	1	0	1200	1200	0
8/23/2024 21:54	45902	AUBU_T1	8	76	68	0.15	0.21	0.06	-2.23	-2.21	2	2	0	1200	1200	0
8/23/2024 21:54	52004	LING_T2	2	2	0	6	6.15	0.15	0.26	0.24	0	0	0	0	0	0
8/23/2024 21:54	64902	MILL_T2	0	0	0	0	0	0	-0.86	-0.86	2	2	0	1800	1800	0
8/23/2024 21:54	66901	SHIL_T2	118	209	91	0.15	0.2	0.05	0	0	0	0	0	0	0	0
8/23/2024 21:54	60101	COCA_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
8/23/2024 21:54	44703	MUNC_T2	2	2	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:54	50201	HARR_T3	1	1	0	1	1.1	0.1	-0.56	-0.56	1	1	0	1200	1200	0
8/23/2024 21:54	11407	FARM_T1	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
8/23/2024 21:54	62105	ELAN_T1	28	107	79	0.12	0.14	0.02	0	0	0	0	0	0	0	0
8/23/2024 21:54	44701	MUNC_T2	33	222	189	0.19	0.21	0.02	0	0	0	0	0	0	0	0
8/23/2024 21:54	67602	WARW_T2	0	0	0	0	0	0	0.45	0.56	0	0	0	0	0	0
8/23/2024 21:54	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:54	62103	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 21:54	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:54	55002	NEWP_T1	5	4	-1	0.52	0.38	-0.14	0	0	0	0	0	0	0	0
8/23/2024 21:54	57106	SPHI_T2	3	3	0	1.03	1.33	0.3	0	0	0	0	0	0	0	0
8/23/2024 21:54	54203	PENN_T1	18	19	1	1.26	1.27	0.01	0.29	0.27	0	0	0	0	0	0
8/23/2024 21:54	54504	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:54	67203	TEHI_T1	0	0	0	0	0	0	1.75	1.75	1	1	0	900	900	0
8/23/2024 21:54	46602	LACR_T1	0	3	3	0	0.1	0.1	-0.91	-0.93	0	0	0	0	0	0
8/23/2024 21:54	62106	ELAN_T1	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/23/2024 21:54	61701	ELIZ_T1	1	1	0	3.8	3.8	0	0	0	0	0	0	0	0	0
8/23/2024 21:54	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:54	50202	HARR_T3	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:54	53501	EVIL_T2	2	2	0	0.9	0.95	0.05	-0.01	-0.01	1	1	0	600	600	0
8/23/2024 21:54	21206	ECAR_T2	1	1	0	8.3	8.2	-0.1	0	0	0	0	0	0	0	0
8/23/2024 21:54	61703	ELIZ_T1	0	0	0	0	0	0	-2.56	-2.68	2	2	0	2100	2100	0
8/23/2024 21:54	47203	FAXO_T2	0	0	0	0	0	0	-1.4	-0.09	1	0	-1	1200	0	-1200
8/23/2024 21:54	24104	EHAZ_T1	0	0	0	0	0	0	-0.8	-0.82	1	1	0	1200	1200	0
8/23/2024 21:54	14702	TREX_T2	0	0	0	0	0	0	0.87	0.86	0	0	0	0	0	0
8/23/2024 21:54	22101	EDEL_T2	0	0	0	0	0	0	0.7	0.7	1	1	0	1200	1200	0
8/23/2024 21:54	13503	MCMI_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
8/23/2024 21:54	47901	HRDG_T1	0	0	0	0	0	0	1.28	1.33	0	0	0	0	0	0
8/23/2024 21:54	66903	SHIL_T2	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
8/23/2024 21:54	21204	ECAR_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/23/2024 21:54	50107	HARR_T3	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
8/23/2024 21:54	57403	SPAN_T1	10	40	30	0.16	0.38	0.22	0	0	0	0	0	0	0	0
8/23/2024 21:54	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	-2.2	-2.24	2	2	0	1200	1200	0
8/23/2024 21:54	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.24	0	0	0	0	0	0
8/23/2024 21:54	24105	EHAZ_T1	4	4	0	5.98	6.25	0.27	0	0	0	0	0	0	0	0
8/23/2024 21:54	57101	SPHI_T2	6	6	0	0.95	1.5	0.55	0	0	0	0	0	0	0	0
8/23/2024 21:54	57104	SPHI_T2	0	0	0	0	0	0	-0.73	-0.76	0	0	0	0	0	0
8/23/2024 21:54	42201	SHEN_T2	0	0	0	0	0	0	0.69	0.64	0	0	0	0	0	0
8/23/2024 21:54	11405	FARM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:54	52006	LING_T2	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/23/2024 21:54	46002	BERW_T2	0	0	0	0	0	0	-2.2	-2.24	2	2	0	1800	1800	0
8/23/2024 21:54	42601	TUSC_T1	0	0	0	0	0	0	-0.48	-0.47	1	1	0	600	600	0
8/23/2024 21:54	67605	WARW_T1	20	23	3	0.42	0.41	-0.01	-1.05	-1.13	0	0	0	0	0	0
8/23/2024 21:54	54601	SUMM_T2	4	2	-2	0.2	0.3	0.1	-1.64	-1.65	2	2	0	2100	2100	0
8/23/2024 21:54	51702	OBER_T1	2	2	0	2.6	2.95	0.35	-0.66	-0.7	1	1	0	600	600	0
8/23/2024 21:54	54501	ENOL_T2	0	0	0	0	0	0	-0.31	-0.37	1	1	0	600	600	0
8/23/2024 21:54	52002	LING_T2	0	1	1	0	0.2	0.2	0.23	0.22	0	0	0	0	0	0
8/23/2024 21:54	41304	FISH_T2	1	1	0	0	0	0	0.38	0.39	0	0	0	0	0	0
8/23/2024 21:54	12002	HATF_T1	0	0	0	0	0	0	-1.19	-1.26	1	1	0	1200	1200	0
8/23/2024 21:54	44702	MUNC_T2	99	116	17	0.38	0.47	0.09	0	0	0	0	0	0	0	0
8/23/2024 21:54	14601	SWHI_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
8/23/2024 21:54	55001	NEWP_T1	0	0	0	0	0	0	-0.23	-0.31	0	0	0	0	0	0
8/23/2024 21:54	66103	REAM_T2	0	0	0	0	0	0	0.63	0.52	1	1	0	1200	1200	0
8/23/2024 21:54	12701	MACU_T1	4	4	0	0.33	0.3	-0.03	0.17	0.14	0	0	0	0	0	0
8/23/2024 21:54	57401	SPAN_T1	2	2	0	0.9	1.3	0.4	-0.63	-0.61	1	1	0	600	600	0
8/23/2024 21:54	62101	ELAN_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/23/2024 21:54	62607	ENGL_T1	0	0	0	0	0	0	-1.58	-1.58	2	2	0	600	600	0
8/23/2024 21:54	50105	HARR_T3	6	6	0	6.35	6.27	-0.08	0	0	0	0	0	0	0	0
8/23/2024 21:54	56501	ROCK_T2	2	2	0	0.35	0.5	0.15	0.25	0.21	0	0	0	0	0	0
8/23/2024 21:54	52502	PROG_T2	0	0	0	0	0	0	-0.42	-0.44	1	1	0	900	900	0
8/23/2024 21:54	66902	SHIL_T2	25	72	47	0.14	0.14	0	0	0	0	0	0	0	0	0
8/23/2024 21:54	42501	ALTA_T2	0	0	0	0	0	0	-1.12	-1.11	1	1	0	600	600	0
8/23/2024 21:54	62102	ELAN_T1	0	0	0	0	0	0	1.08	1.14	0	0	0	0	0	0
8/23/2024 21:54	50103	HARR_T3	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:54	53502	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:54	54201	PENN_T1	31	48	17	0.45	0.42	-0.03	-0.78	-0.78	0	0	0	0	0	0
8/23/2024 21:54	40101	HUNT_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
8/23/2024 21:55	11901	ETEX_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
8/23/2024 21:55	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:55	14601	SWHI_T1	0	0	0	0	0	0	-1.92	-1.99	0	0	0	0	0	0
8/23/2024 21:55	53502	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:55	52202	DEVO_T2	0	0	0	0	0	0	-0.51	-1.14	0	0	0	0	0	0
8/23/2024 21:55	65901	SAKR_T2	1	1	0	9.5	9.2	-0.3	0	0	0	0	0	0	0	0
8/23/2024 21:55	66505	SMAN_T2	0	0	0	0	0	0	0.58	0.1	1	2	1	900	1500	600
8/23/2024 21:55	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:55	65904	SAKR_T2	0	0	0	0	0	0	-1.72	-1.53	2	2	0	900	900	0
8/23/2024 21:55	48902	FOSP_T2	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
8/23/2024 21:55	44802	EDAN_T2	0	0	0	0	0	0	-0.6	-0.57	0	0	0	0	0	0
8/23/2024 21:55	12701	MACU_T1	4	4	0	0.33	0.3	-0.03	0.17	0.14	0	0	0	0	0	0
8/23/2024 21:55	48301	ORWI_T1	2	2	0	5.6	5.7	0.1	-0.54	-0.55	1	1	0	900	900	0
8/23/2024 21:55	14603	SWHI_T1	0	0	0	0	0	0	-0.79	-0.8	1	1	0	600	600	0
8/23/2024 21:55	29402	BELT_T1	62	87	25	0.43	0.55	0.12	0	0	0	0	0	0	0	0
8/23/2024 21:55	56504	ROCK_T2	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
8/23/2024 21:55	58402	MORO_T1	0	0	0	0	0	0	-0.16	-0.2	2	2	0	1500	1500	0
8/23/2024 21:55	56502	ROCK_T2	2	2	0	0.35	0.5	0.15	0.25	0.21	0	0	0	0	0	0
8/23/2024 21:55	59202	THOM_T1	440	353	-87	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
8/23/2024 21:55	60102	COCA_T1	0	0	0	0	0	0	-0.58	-0.38	2	2	0	1200	1200	0
8/23/2024 21:55	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:55	44801	EDAN_T2	85	180	95	0.38	0.5	0.12	0	0	0	0	0	0	0	0
8/23/2024 21:55	54601	SUMM_T2	4	2	-2	0.2	0.3	0.1	-1.64	-1.65	2	2	0	2100	2100	0
8/23/2024 21:55	49803	UNIV_T1	1	1	0	5.1	4.8	-0.3	-2.16	-2.27	0	0	0	0	0	0
8/23/2024 21:55	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.24	0	0	0	0	0	0
8/23/2024 21:55	16006	DORN_T2	0	1	1	0	0	0	0.95	0.95	0	0	0	0	0	0
8/23/2024 21:55	53501	EVIL_T2	2	2	0	0.9	0.95	0.05	-0.01	-0.01	1	1	0	600	600	0
8/23/2024 21:55	14702	TREX_T2	0	0	0	0	0	0	0.87	0.86	0	0	0	0	0	0
8/23/2024 21:55	64101	REFR_T1	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
8/23/2024 21:55	11101	EGYP_T1	0	0	0	0	0	0	1.01	1	0	0	0	0	0	0
8/23/2024 21:55	59201	THOM_T1	40	28	-12	0.55	0.55	0	0	0	0	0	0	0	0	0
8/23/2024 21:55	67605	WARW_T1	20	23	3	0.42	0.41	-0.01	-1.05	-1.13	0	0	0	0	0	0
8/23/2024 21:56	16006	DORN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:56	62101	ELAN_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/23/2024 21:56	52403	GRPA_T2	2	2	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
8/23/2024 21:56	56504	ROCK_T2	0	0	0	0	0	0	-0.29	-0.37	0	0	0	0	0	0
8/23/2024 21:56	55101	WERT_T1	0	1	1	0	0	0	-1.2	-1.23	2	2	0	1500	1500	0
8/23/2024 21:56	56501	ROCK_T2	2	2	0	0.35	0.5	0.15	0.25	0.21	0	0	0	0	0	0
8/23/2024 21:56	16002	DORN_T2	0	0	0	0	0	0	-0.5	-0.5	1	1	0	1200	1200	0
8/23/2024 21:56	57403	SPAN_T1	10	40	30	0.16	0.38	0.22	0.15	0.15	0	0	0	0	0	0
8/23/2024 21:56	64101	REFR_T1	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
8/23/2024 21:56	14404	SSLA_T1	17	17	0	1.22	1.18	-0.04	0	0	0	0	0	0	0	0
8/23/2024 21:56	53601	DALM_T2	1	1	0	0.8	1	0.2	-0.06	-0.07	0	0	0	0	0	0
8/23/2024 21:56	61502	EPET_T1	0	0	0	0	0	0	-0.85	-0.91	0	0	0	0	0	0
8/23/2024 21:56	64801	MONE_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/23/2024 21:56	62106	ELAN_T1	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/23/2024 21:56	53502	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:56	43301	WATS_T2	1	1	0	0.2	0.7	0.5	0.43	0.43	0	0	0	0	0	0
8/23/2024 21:56	66505	SMAN_T2	0	0	0	0	0	0	0.58	0.1	1	2	1	900	1500	600
8/23/2024 21:56	53501	EVIL_T2	2	2	0	0.9	0.95	0.05	-0.01	-0.01	1	1	0	600	600	0
8/23/2024 21:56	67602	WARW_T2	0	0	0	0	0	0	0.45	0.56	0	0	0	0	0	0
8/23/2024 21:56	43302	WATS_T2	4	4	0	0.53	0.75	0.22	0	0	0	0	0	0	0	0
8/23/2024 21:56	57401	SPAN_T1	2	2	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
8/23/2024 21:56	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/23/2024 21:56	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:56	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.24	0	0	0	0	0	0
8/23/2024 21:56	24702	FLND_T2	0	0	0	0	0	0	0.23	0.15	1	1	0	1200	1200	0
8/23/2024 21:56	67503	WEWI_T2	1	1	0	7.5	8.1	0.6	0.09	0.18	0	0	0	0	0	0
8/23/2024 21:56	41301	FISH_T1	2	3	1	0.9	1.63	0.73	-0.02	-0.04	0	0	0	0	0	0
8/23/2024 21:56	54601	SUMM_T2	4	2	-2	0.2	0.3	0.1	-1.64	-1.65	2	2	0	2100	2100	0
8/23/2024 21:56	52404	GRPA_T2	1	1	0	1.1	1	-0.1	-0.24	-0.28	0	0	0	0	0	0
8/23/2024 21:56	55002	NEWP_T1	5	4	-1	0.52	0.38	-0.14	0	0	0	0	0	0	0	0
8/23/2024 21:56	11405	FARM_T1	0	0	0	0	0	0	-0.59	-0.61	1	1	0	1200	1200	0
8/23/2024 21:56	52402	GRPA_T2	4	4	0	1.25	1.05	-0.2	0	0	0	0	0	0	0	0
8/23/2024 21:56	67605	WARW_T1	20	23	3	0.42	0.41	-0.01	-1.05	-1.13	0	0	0	0	0	0
8/23/2024 21:56	14201	EALL_T1	0	0	0	0	0	0	1.57	1.48	0	0	0	0	0	0
8/23/2024 21:56	64802	MONE_T2	1	0	-1	0.1	0	-0.1	0.29	0.35	0	0	0	0	0	0
8/23/2024 21:56	14403	SSLA_T1	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
8/23/2024 21:56	10805	CHHI_T2	1	1	0	7.6	7.2	-0.4	-0.88	-1.01	1	1	0	600	600	0
8/23/2024 21:56	62103	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 21:56	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	-1.1	-1.12	1	1	0	600	600	0
8/23/2024 21:56	54504	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:56	62105	ELAN_T1	28	107	79	0.12	0.14	0.02	0.7	0.65	0	0	0	0	0	0
8/23/2024 21:56	43304	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:56	48902	FOSP_T2	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
8/23/2024 21:56	67502	WEWI_T2	6	250	244	0.22	0.18	-0.04	-1.24	-1.25	1	1	0	900	900	0
8/23/2024 21:56	54503	ENOL_T2	0	0	0	0	0	0	-2.26	-2.37	2	2	0	1200	1200	0
8/23/2024 21:56	55001	NEWP_T1	0	0	0	0	0	0	-0.46	-0.61	0	0	0	0	0	0
8/23/2024 21:56	44301	BEAV_T2	0	0	0	0	0	0	-0.31	0.11	1	1	0	600	600	0
8/23/2024 21:57	50502	MECH_T1	49	116	67	0.22	0.26	0.04	0	0	0	0	0	0	0	0
8/23/2024 21:57	20401	ASHF_T2	6	8	2	0.5	0.55	0.05	0	0	0	0	0	0	0	0
8/23/2024 21:57	40601	PIGR_T1	2	33	31	0.1	0.14	0.04	0	0	0	0	0	0	0	0
8/23/2024 21:57	50501	MECH_T1	4	4	0	0.38	0.75	0.37	0	0	0	0	0	0	0	0
8/23/2024 21:57	55101	WERT_T1	0	1	1	0	0	0	-2.4	-2.47	4	4	0	3000	3000	0
8/23/2024 21:57	64101	REFR_T1	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
8/23/2024 21:57	52503	PROG_T2	0	0	0	0	0	0	-0.54	-0.56	1	1	0	900	900	0
8/23/2024 21:57	52401	GRPA_T2	0	1	1	0	0.3	0.3	-0.34	-0.36	0	0	0	0	0	0
8/23/2024 21:57	52404	GRPA_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
8/23/2024 21:57	20402	ASHF_T2	1	22	21	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
8/23/2024 21:57	56501	ROCK_T2	2	2	0	0.35	0.5	0.15	0.5	0.43	0	0	0	0	0	0
8/23/2024 21:57	11407	FARM_T1	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
8/23/2024 21:57	60101	COCA_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
8/23/2024 21:57	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	-6.6	-6.72	6	6	0	3600	3600	0
8/23/2024 21:57	63602	LETO_T1	0	46	46	0	0.17	0.17	-0.17	-0.26	0	0	0	0	0	0
8/23/2024 21:57	67602	WARW_T2	0	0	0	0	0	0	0.9	1.12	0	0	0	0	0	0
8/23/2024 21:57	20403	ASHF_T2	1	5	4	0.1	0.14	0.04	0.26	0.22	0	0	0	0	0	0
8/23/2024 21:57	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.24	0	0	0	0	0	0
8/23/2024 21:57	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:57	11104	EGYP_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
8/23/2024 21:57	46203	DANV_T2	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:57	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:57	56504	ROCK_T2	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
8/23/2024 21:57	50506	MECH_T1	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
8/23/2024 21:57	61703	ELIZ_T1	0	0	0	0	0	0	-2.56	-2.68	2	2	0	2100	2100	0
8/23/2024 21:57	63401	HONY_T1	0	0	0	0	0	0	0.05	-0.1	1	1	0	600	600	0
8/23/2024 21:57	46206	DANV_T2	0	0	0	0	0	0	0.48	0.45	2	2	0	2100	2100	0
8/23/2024 21:57	67203	TEHI_T1	0	0	0	0	0	0	1.75	1.75	1	1	0	900	900	0
8/23/2024 21:57	52403	GRPA_T2	2	2	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
8/23/2024 21:57	54504	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:57	67901	WNHO_T2	6	7	1	0.13	0.16	0.03	0	0	0	0	0	0	0	0
8/23/2024 21:57	61701	ELIZ_T1	1	1	0	3.8	3.8	0	0	0	0	0	0	0	0	0
8/23/2024 21:57	45802	HEGI_T2	10	40	30	0.21	0.57	0.36	0.86	0.8	0	0	0	0	0	0
8/23/2024 21:57	46002	BERW_T2	0	0	0	0	0	0	-1.1	-1.12	1	1	0	900	900	0
8/23/2024 21:57	67703	WERN_T2	0	0	0	0	0	0	83.96	83.96	1	1	0	900	900	0
8/23/2024 21:57	63404	HONY_T1	17	11	-6	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
8/23/2024 21:57	54503	ENOL_T2	0	0	0	0	0	0	-1.13	-1.18	1	1	0	600	600	0
8/23/2024 21:57	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:57	45501	DERR_T2	0	0	0	0	0	0	-0.6	-0.53	2	2	0	1800	1800	0
8/23/2024 21:57	61803	ELLI_T2	0	0	0	0	0	0	0.23	0.18	1	1	0	600	600	0
8/23/2024 21:57	52402	GRPA_T2	4	4	0	1.25	1.05	-0.2	0	0	0	0	0	0	0	0
8/23/2024 21:57	58202	NEWV_T1	4	8	4	0.18	0.31	0.13	0.18	0.18	0	0	0	0	0	0
8/23/2024 21:57	11102	EGYP_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
8/23/2024 21:58	67803	WLAN_T1	0	3	3	0	0.1	0.1	-0.68	-0.65	0	0	0	0	0	0
8/23/2024 21:58	65205	PRIN_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
8/23/2024 21:58	67605	WARW_T1	20	23	3	0.42	0.41	-0.01	-2.09	-2.25	0	0	0	0	0	0
8/23/2024 21:58	46004	BERW_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
8/23/2024 21:58	52006	LING_T2	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/23/2024 21:58	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	-1.1	-1.12	1	1	0	600	600	0
8/23/2024 21:58	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:58	63501	HEID_TBK1-2	56	55	-1	1.69	2.08	0.39	0.56	0.53	0	0	0	0	0	0
8/23/2024 21:58	67402	WAKE_T2	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
8/23/2024 21:58	52002	LING_T2	0	1	1	0	0.2	0.2	0.23	0.22	0	0	0	0	0	0
8/23/2024 21:58	45802	HEGI_T2	10	40	30	0.21	0.57	0.36	0.86	0.8	0	0	0	0	0	0
8/23/2024 21:58	67401	WAKE_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
8/23/2024 21:58	45501	DERR_T2	0	0	0	0	0	0	-0.6	-0.53	2	2	0	1800	1800	0
8/23/2024 21:58	54504	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:58	44801	EDAN_T2	85	180	95	0.38	0.5	0.12	-1.62	-1.6	0	0	0	0	0	0
8/23/2024 21:58	46803	HEPB_T2	0	0	0	0	0	0	0.66	0.56	0	0	0	0	0	0
8/23/2024 21:58	52004	LING_T2	2	2	0	6	6.15	0.15	0	0	0	0	0	0	0	0
8/23/2024 21:58	67802	WLAN_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:58	46203	DANV_T2	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:58	55101	WERT_T1	0	1	1	0	0	0	-1.2	-1.23	2	2	0	1500	1500	0
8/23/2024 21:58	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:58	16201	POFA_T2	0	11	11	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:58	56504	ROCK_T2	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
8/23/2024 21:58	67805	WLAN_T1	208	498	290	0.15	0.35	0.2	0	0	0	0	0	0	0	0
8/23/2024 21:58	62604	ENGL_T1	0	0	0	0	0	0	-0.8	-0.78	1	1	0	600	600	0
8/23/2024 21:58	24204	PROV_T3	1	1	0	5.9	6.6	0.7	0	0	0	0	0	0	0	0
8/23/2024 21:58	60801	BUCK_T1	28	53	25	0.19	0.32	0.13	-0.15	-0.18	0	0	0	0	0	0
8/23/2024 21:58	13002	NBET_T2	0	0	0	0	0	0	-1.47	-1.51	2	2	0	2400	2400	0
8/23/2024 21:58	67201	TEHI_T1	0	0	0	0	0	0	0.81	0.79	0	0	0	0	0	0
8/23/2024 21:58	52501	PROG_T1	0	0	0	0	0	0	0.02	-1.3	1	1	0	300	300	0
8/23/2024 21:58	46801	HEPB_T2	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/23/2024 21:58	64101	REFR_T1	0	0	0	0	0	0	0.14	0.06	0	0	0	0	0	0
8/23/2024 21:58	57403	SPAN_T1	10	40	30	0.16	0.38	0.22	0	0	0	0	0	0	0	0
8/23/2024 21:58	56501	ROCK_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
8/23/2024 21:58	46206	DANV_T2	0	0	0	0	0	0	0.48	0.45	2	2	0	2100	2100	0
8/23/2024 21:58	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
8/23/2024 21:58	57401	SPAN_T1	2	2	0	0.9	1.3	0.4	-1.25	-1.21	2	2	0	1200	1200	0
8/23/2024 21:58	57201	ROSS_T1	4	15	11	0.13	0.16	0.03	0	0	0	0	0	0	0	0
8/23/2024 21:58	53601	DALM_T2	1	1	0	0.8	1	0.2	-0.06	-0.07	0	0	0	0	0	0
8/23/2024 21:58	24201	PROV_T3	1	1	0	7.3	7.2	-0.1	0.01	0	0	0	0	0	0	0
8/23/2024 21:58	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:58	57205	ROSS_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
8/23/2024 21:58	51204	MTON_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
8/23/2024 21:58	60803	BUCK_T1	12	13	1	0.35	0.47	0.12	0	0	0	0	0	0	0	0
8/23/2024 21:58	67804	WLAN_T1	0	10	10	0	0.12	0.12	0	0	0	0	0	0	0	0
8/23/2024 21:58	46101	MACI_T2	0	0	0	0	0	0	0.67	0.63	0	0	0	0	0	0
8/23/2024 21:58	12302	LANA_T2	0	0	0	0	0	0	-1.35	-1.38	2	2	0	1500	1500	0
8/23/2024 21:59	52403	GRPA_T2	2	2	0	1.3	1.5	0.2	0.26	0.12	0	0	0	0	0	0
8/23/2024 21:59	50502	MECH_T1	49	116	67	0.22	0.26	0.04	0	0	0	0	0	0	0	0
8/23/2024 21:59	20401	ASHF_T2	6	8	2	0.5	0.55	0.05	0	0	0	0	0	0	0	0
8/23/2024 21:59	59101	WALK_T2	1	0	-1	0.1	0	-0.1	-0.43	-0.56	0	0	0	0	0	0
8/23/2024 21:59	67602	WARW_T2	0	0	0	0	0	0	0.45	0.56	0	0	0	0	0	0
8/23/2024 21:59	64202	KINZ_T1	2	2	0	0.15	0.35	0.2	0.58	0.59	0	0	0	0	0	0
8/23/2024 21:59	45702	LIND_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
8/23/2024 21:59	46203	DANV_T2	1	1	0	8.2	8.3	0.1	-1.22	-1.32	0	0	0	0	0	0
8/23/2024 21:59	64204	KINZ_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
8/23/2024 21:59	52402	GRPA_T2	4	4	0	1.25	1.05	-0.2	0	0	0	0	0	0	0	0
8/23/2024 21:59	63304	GREE_T1	0	51	51	0	0.1	0.1	-3.12	-3.21	0	0	0	0	0	0
8/23/2024 21:59	45502	DERR_T2	0	0	0	0	0	0	-0.59	-0.49	0	0	0	0	0	0
8/23/2024 21:59	63303	GREE_T1	0	0	0	0	0	0	0.2	0.18	1	1	0	600	600	0
8/23/2024 21:59	43801	SWIL_T1	2	2	0	3.35	3.35	0	0	0	0	0	0	0	0	0
8/23/2024 21:59	52502	PROG_T2	0	0	0	0	0	0	-0.42	-0.44	1	1	0	900	900	0
8/23/2024 21:59	60101	COCA_T1	0	0	0	0	0	0	0.87	0.81	0	0	0	0	0	0
8/23/2024 21:59	63305	GREE_T1	8	8	0	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
8/23/2024 21:59	43105	SMIL_T2	8	16	8	0.16	0.35	0.19	0	0	0	0	0	0	0	0
8/23/2024 21:59	44801	EDAN_T2	85	180	95	0.38	0.5	0.12	-1.62	-1.6	0	0	0	0	0	0
8/23/2024 21:59	20402	ASHF_T2	1	22	21	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
8/23/2024 21:59	66502	SMAN_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
8/23/2024 21:59	41902	REED_T1	0	0	0	0	0	0	1.05	1.09	0	0	0	0	0	0
8/23/2024 21:59	43103	SMIL_T2	16	21	5	0.46	0.71	0.25	0	0	0	0	0	0	0	0
8/23/2024 21:59	46205	DANV_T2	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
8/23/2024 21:59	46004	BERW_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
8/23/2024 21:59	54504	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 21:59	66701	STRA_T1	0	0	0	0	0	0	0.76	0.72	0	0	0	0	0	0
8/23/2024 21:59	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/23/2024 21:59	59201	THOM_T1	40	28	-12	0.55	0.55	0	0	0	0	0	0	0	0	0
8/23/2024 21:59	10801	CHHI_T1	0	1	1	0	0	0	-0.78	-0.63	1	1	0	900	900	0
8/23/2024 21:59	42902	MIDD_T2	0	0	0	0	0	0	-0.59	-0.63	0	0	0	0	0	0
8/23/2024 21:59	63501	HEID_TBK1-2	56	55	-1	1.69	2.08	0.39	0.56	0.53	0	0	0	0	0	0
8/23/2024 21:59	57403	SPAN_T1	10	40	30	0.16	0.38	0.22	0.15	0.15	0	0	0	0	0	0
8/23/2024 21:59	64201	KINZ_T1	4	1	-3	0.38	0.8	0.42	0	0	0	0	0	0	0	0
8/23/2024 21:59	61801	EELI_T2	0	0	0	0	0	0	-0.18	-0.28	0	0	0	0	0	0
8/23/2024 21:59	50501	MECH_T1	4	4	0	0.38	0.75	0.37	0	0	0	0	0	0	0	0
8/23/2024 21:59	46801	HEPB_T2	2	2	0	0.3	0.7	0.4	0.66	0.65	0	0	0	0	0	0
8/23/2024 21:59	41901	REED_T1	8	9	1	0.26	0.29	0.03	0	0	0	0	0	0	0	0
8/23/2024 21:59	20601	GRWO_T2	1	1	0	1.5	0.1	-1.4	0	0	0	0	0	0	0	0
8/23/2024 21:59	11301	EMMA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
8/23/2024 21:59	61701	ELIZ_T1	1	1	0	3.8	3.8	0	0	0	0	0	0	0	0	0
8/23/2024 21:59	54503	ENOL_T2	0	0	0	0	0	0	-1.13	-1.18	1	1	0	600	600	0
8/23/2024 21:59	61703	ELIZ_T1	0	0	0	0	0	0	-2.56	-2.68	2	2	0	2100	2100	0
8/23/2024 21:59	57401	SPAN_T1	2	2	0	0.9	1.3	0.4	-0.63	-0.61	1	1	0	600	600	0
8/23/2024 21:59	16605	PONO_T1	0	0	0	0	0	0	-0.25	-0.43	1	1	0	1200	1200	0
8/23/2024 21:59	43108	SMIL_T2	0	0	0	0	0	0	-1.05	-1.04	1	1	0	1200	1200	0
8/23/2024 21:59	59102	WALK_T2	50	41	-9	0.25	0.16	-0.09	0	0	0	0	0	0	0	0
8/23/2024 21:59	52404	GRPA_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
8/23/2024 21:59	43102	SMIL_T2	5	9	4	0.68	0.74	0.06	0	0	0	0	0	0	0	0
8/23/2024 21:59	44802	EDAN_T2	0	0	0	0	0	0	-0.6	-0.57	0	0	0	0	0	0
8/23/2024 21:59	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	-2.2	-2.24	2	2	0	1200	1200	0
8/23/2024 21:59	23001	SAJO_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
8/23/2024 21:59	41002	LAUR_T2	63	83	20	1.51	1.67	0.16	0.15	0.13	0	0	0	0	0	0
8/23/2024 21:59	66703	STRA_T1	3	5	2	0.1	0.56	0.46	0	0	0	0	0	0	0	0
8/23/2024 21:59	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/23/2024 21:59	59202	THOM_T1	440	353	-87	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
8/23/2024 21:59	42201	SHEN_T2	0	0	0	0	0	0	1.39	1.29	0	0	0	0	0	0
8/23/2024 21:59	41001	LAUR_T2	89	120	31	1.61	1.71	0.1	0	0	0	0	0	0	0	0
8/23/2024 21:59	20403	ASHF_T2	1	5	4	0.1	0.14	0.04	0.26	0.22	0	0	0	0	0	0
8/23/2024 21:59	44201	POIN_T1	8	85	77	0.14	0.18	0.04	-3.74	-3.76	4	4	0	4200	4200	0
8/23/2024 21:59	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.05	1	1	0	600	600	0
8/23/2024 21:59	53501	EVIL_T2	2	2	0	0.9	0.95	0.05	0	0	0	0	0	0	0	0
8/23/2024 21:59	53502	EVIL_T2	0	1	1	0	0.1	0.1	0.09	0.16	0	0	0	0	0	0
8/23/2024 21:59	43802	SWIL_T1	0	0	0	0	0	0	-0.03	-0.01	1	1	0	600	600	0
8/23/2024 21:59	66301	MCGO_T2	0	2	2	0	0.1	0.1	-1.57	-1.57	0	0	0	0	0	0
8/23/2024 21:59	20603	GRWO_T2	35	35	0	0.16	0.15	-0.01	-0.61	-0.66	1	1	0	900	900	0
8/23/2024 21:59	52202	DEVO_T2	0	0	0	0	0	0	-0.51	-1.14	0	0	0	0	0	0
8/23/2024 21:59	50506	MECH_T1	0	0	0	0	0	0	0.33	0.27	0	0	0	0	0	0
8/23/2024 21:59	66303	MCGO_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/23/2024 21:59	14601	SWHI_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
8/23/2024 21:59	57702	PAXT_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
8/23/2024 22:00	57401	SPAN_T1	2	2	0	1.3	0.8	-0.5	-1.25	-1.21	2	2	0	1200	1200	0
8/23/2024 22:00	49804	UNIV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/23/2024 22:00	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 22:00	52401	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/23/2024 22:00	64204	KINZ_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/23/2024 22:00	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 22:00	54505	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/23/2024 22:00	41502	FAIR_T2	0	0	0	0	0	0	-0.63	-0.65	0	0	0	0	0	0
8/23/2024 22:00	46203	DANV_T2	1	1	0	8.3	9	0.7	0	0	0	0	0	0	0	0
8/23/2024 22:00	40902	JESH_T1	1	17	16	0.1	0.12	0.02	0	0	0	0	0	0	0	0
8/23/2024 22:00	64202	KINZ_T1	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
8/23/2024 22:00	53502	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 22:00	46502	LOHA_T1	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
8/23/2024 22:00	13101	NHAM_T1	0	0	0	0	0	0	-1.34	-0.86	1	1	0	1200	1200	0
8/23/2024 22:00	49803	UNIV_T1	1	1	0	5.1	4.6	-0.5	-2.16	-2.27	0	0	0	0	0	0
8/23/2024 22:00	57101	SPHI_T2	6	6	0	1.5	1.13	-0.37	0	0	0	0	0	0	0	0
8/23/2024 22:00	52403	GRPA_T2	2	2	0	1.5	0.6	-0.9	0	0	0	0	0	0	0	0
8/23/2024 22:00	52404	GRPA_T2	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
8/23/2024 22:00	43105	SMIL_T2	14	16	2	0.18	0.35	0.17	0	0	0	0	0	0	0	0
8/23/2024 22:00	52501	PROG_T1	0	0	0	0	0	0	0.02	-1.3	1	1	0	300	300	0
8/23/2024 22:00	42802	SELI_T1	0	0	0	0	0	0	-1.2	-0.21	1	0	-1	900	0	-900
8/23/2024 22:00	43108	SMIL_T2	0	3	3	0	0.37	0.37	-1.05	-1.04	1	1	0	1200	1200	0
8/23/2024 22:00	44801	EDAN_T2	117	247	130	0.4	0.53	0.13	0	0	0	0	0	0	0	0
8/23/2024 22:00	43102	SMIL_T2	6	9	3	0.73	0.74	0.01	0	0	0	0	0	0	0	0
8/23/2024 22:00	66703	STRA_T1	5	22	17	0.28	0.26	-0.02	0.03	-0.09	0	0	0	0	0	0
8/23/2024 22:00	43202	MVIL_T2	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
8/23/2024 22:00	64203	KINZ_T1	0	0	0	0	0	0	0.34	0.28	0	0	0	0	0	0
8/23/2024 22:00	53501	EVIL_T2	1	3	2	1.3	0.8	-0.5	-0.02	-0.02	4	4	0	2400	2400	0
8/23/2024 22:00	57403	SPAN_T1	39	5	-34	0.38	0.16	-0.22	0	0	0	0	0	0	0	0
8/23/2024 22:00	12701	MACU_T1	4	4	0	0.23	0.3	0.07	0.17	0.14	0	0	0	0	0	0
8/23/2024 22:00	57106	SPHI_T2	3	3	0	1.33	1.23	-0.1	0	0	0	0	0	0	0	0
8/23/2024 22:00	64802	MONE_T2	0	0	0	0	0	0	0.29	0.35	0	0	0	0	0	0
8/23/2024 22:00	64101	REFR_T1	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
8/23/2024 22:00	65702	RVIL_T2	0	0	0	0	0	0	-0.38	-0.43	1	1	0	600	600	0
8/23/2024 22:00	46206	DANV_T2	0	0	0	0	0	0	0.48	0.45	2	2	0	2100	2100	0
8/23/2024 22:00	52402	GRPA_T2	4	4	0	1.05	0.28	-0.77	-0.67	-0.68	0	0	0	0	0	0
8/23/2024 22:00	42902	MIDD_T2	0	0	0	0	0	0	-0.59	-0.63	0	0	0	0	0	0
8/23/2024 22:00	66505	SMAN_T2	0	3	3	0	0.13	0.13	0.58	0.1	1	2	1	900	1500	600
8/23/2024 22:00	43103	SMIL_T2	16	21	5	0.66	0.72	0.06	0	0	0	0	0	0	0	0
8/23/2024 22:00	46504	LOHA_T1	3	5	2	1.03	0.68	-0.35	0	0	0	0	0	0	0	0
8/23/2024 22:00	44802	EDAN_T2	0	0	0	0	0	0	-0.6	-0.57	0	0	0	0	0	0
8/23/2024 22:00	46506	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 22:00	40101	HUNT_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
8/23/2024 22:00	57104	SPHI_T2	0	0	0	0	0	0	-0.73	-0.76	0	0	0	0	0	0
8/23/2024 22:00	51201	MTON_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
8/23/2024 22:00	54503	ENOL_T2	0	0	0	0	0	0	-3.38	-3.55	3	3	0	1800	1800	0
8/23/2024 22:00	64201	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
8/23/2024 22:00	44201	POIN_T1	60	84	24	0.17	0.18	0.01	-1.87	-1.88	2	2	0	2100	2100	0
8/23/2024 22:00	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.05	1	1	0	600	600	0
8/23/2024 22:00	52503	PROG_T2	0	0	0	0	0	0	-0.54	-0.56	1	1	0	900	900	0
8/23/2024 22:00	45602	WOOL_T1	0	9	9	0	0.12	0.12	0.72	0.64	0	0	0	0	0	0
8/23/2024 22:00	58402	MORO_T1	0	4	4	0	0.13	0.13	-0.16	-0.2	2	2	0	1500	1500	0
8/23/2024 22:00	40903	JESH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 22:00	54501	ENOL_T2	0	0	0	0	0	0	-0.31	-0.37	1	1	0	600	600	0
8/23/2024 22:01	52404	GRPA_T2	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
8/23/2024 22:01	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 22:01	46004	BERW_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
8/23/2024 22:01	59102	WALK_T2	41	0	-41	0.16	0	-0.16	0	0	0	0	0	0	0	0
8/23/2024 22:01	40903	JESH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 22:01	52401	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/23/2024 22:01	44201	POIN_T1	60	84	24	0.17	0.18	0.01	-3.74	-3.76	4	4	0	4200	4200	0
8/23/2024 22:01	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 22:01	52402	GRPA_T2	4	4	0	1.05	0.28	-0.77	-0.67	-0.68	0	0	0	0	0	0
8/23/2024 22:01	46504	LOHA_T1	3	5	2	1.03	0.68	-0.35	0	0	0	0	0	0	0	0
8/23/2024 22:01	59002	MIFF_T1	5	6	1	0.54	0.92	0.38	0	0	0	0	0	0	0	0
8/23/2024 22:01	40801	EXCH_T2	0	0	0	0	0	0	0.83	0.94	0	0	0	0	0	0
8/23/2024 22:01	51906	COPA_T1	0	0	0	0	0	0	-0.89	-0.93	2	2	0	1500	1500	0
8/23/2024 22:01	14601	SWHI_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
8/23/2024 22:01	46506	LOHA_T1	0	1	1	0	0.1	0.1	0	0.01	0	0	0	0	0	0
8/23/2024 22:01	52102	MEIS_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 22:01	44801	EDAN_T2	117	247	130	0.4	0.53	0.13	-1.62	-1.6	0	0	0	0	0	0
8/23/2024 22:01	51904	COPA_T1	5	5	0	1.04	0.2	-0.84	0	0	0	0	0	0	0	0
8/23/2024 22:01	59101	WALK_T2	0	0	0	0	0	0	-0.43	-0.56	0	0	0	0	0	0
8/23/2024 22:01	52101	MEIS_T1	2	2	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
8/23/2024 22:01	40902	JESH_T1	1	17	16	0.1	0.12	0.02	-0.69	-0.66	0	0	0	0	0	0
8/23/2024 22:01	13704	SOHN_T2	0	2	2	0	0.1	0.1	-0.29	-0.32	0	0	0	0	0	0
8/23/2024 22:01	46001	BERW_T1	0	0	0	0	0	0	-1.11	-0.2	0	0	0	0	0	0
8/23/2024 22:01	51704	OBER_T1	0	0	0	0	0	0	-0.25	-0.29	0	0	0	0	0	0
8/23/2024 22:01	43202	MVIL_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
8/23/2024 22:01	59003	MIFF_T1	1	1	0	0.8	0.4	-0.4	0.29	0.31	0	0	0	0	0	0
8/23/2024 22:01	53802	MBRG_T2	0	0	0	0	0	0	1.02	0.15	0	0	0	0	0	0
8/23/2024 22:01	63305	GREE_T1	3	8	5	0.1	0.23	0.13	0	0	0	0	0	0	0	0
8/23/2024 22:01	67602	WARW_T2	0	0	0	0	0	0	0.45	0.56	0	0	0	0	0	0
8/23/2024 22:01	63302	GREE_T1	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
8/23/2024 22:01	46801	HEPB_T2	2	2	0	0.5	0.7	0.2	0.66	0.65	0	0	0	0	0	0
8/23/2024 22:01	63304	GREE_T1	3	51	48	0.1	0.1	0	0	0	0	0	0	0	0	0
8/23/2024 22:01	52403	GRPA_T2	2	2	0	1.5	0.6	-0.9	0	0	0	0	0	0	0	0
8/23/2024 22:01	46002	BERW_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 22:01	51702	OBER_T1	2	2	0	2.95	2.7	-0.25	0	0	0	0	0	0	0	0
8/23/2024 22:01	65502	MOJO_T2	0	0	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0
8/23/2024 22:01	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 22:01	56501	ROCK_T2	2	1	-1	0.5	0	-0.5	0.5	0.43	0	0	0	0	0	0
8/23/2024 22:02	54505	ENOL_T2	1	1	0	0.6	0.6	0	-1.1	-1.12	1	1	0	600	600	0
8/23/2024 22:02	44201	POIN_T1	60	84	24	0.17	0.18	0.01	-1.87	-1.88	2	2	0	2100	2100	0
8/23/2024 22:02	52403	GRPA_T2	2	2	0	1.5	0.6	-0.9	0.13	0.06	0	0	0	0	0	0
8/23/2024 22:02	42902	MIDD_T2	0	0	0	0	0	0	-0.59	-0.63	0	0	0	0	0	0
8/23/2024 22:02	58705	ROSE_T2	5	5	0	2.92	2.68	-0.24	0	0	0	0	0	0	0	0
8/23/2024 22:02	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/23/2024 22:02	52401	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/23/2024 22:02	52004	LING_T2	2	2	0	6.15	6.3	0.15	0	0	0	0	0	0	0	0
8/23/2024 22:02	58402	MORO_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
8/23/2024 22:02	29301	DAPP_T1	1	1	0	9.4	9.4	0	0	0	1	1	0	600	600	0
8/23/2024 22:02	46206	DANV_T2	0	0	0	0	0	0	0.48	0.45	2	2	0	2100	2100	0
8/23/2024 22:02	67801	WLAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 22:02	55101	WERT_T1	0	0	0	0	0	0	-3.59	-3.7	6	6	0	4500	4500	0
8/23/2024 22:02	52002	LING_T2	0	1	1	0	0.4	0.4	0.23	0.22	0	0	0	0	0	0
8/23/2024 22:02	40101	HUNT_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
8/23/2024 22:02	58702	ROSE_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
8/23/2024 22:02	42903	MIDD_T2	0	0	0	0	0	0	-0.42	-0.33	0	0	0	0	0	0
8/23/2024 22:02	59201	THOM_T1	28	9	-19	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
8/23/2024 22:02	59202	THOM_T1	353	38	-315	0.5	0.19	-0.31	0	0	0	0	0	0	0	0
8/23/2024 22:02	52402	GRPA_T2	4	4	0	1.05	0.28	-0.77	0	0	0	0	0	0	0	0
8/23/2024 22:02	59102	WALK_T2	41	0	-41	0.16	0	-0.16	0	0	0	0	0	0	0	0
8/23/2024 22:02	46203	DANV_T2	1	1	0	8.3	9	0.7	0	0	0	0	0	0	0	0
8/23/2024 22:02	54504	ENOL_T2	0	0	0	0	0	0	-0.93	-0.96	1	1	0	600	600	0
8/23/2024 22:02	67803	WLAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 22:02	52006	LING_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/23/2024 22:02	67804	WLAN_T1	0	19	19	0	0.11	0.11	0	0	0	0	0	0	0	0
8/23/2024 22:02	59101	WALK_T2	0	0	0	0	0	0	-0.21	-0.28	0	0	0	0	0	0
8/23/2024 22:02	42802	SELI_T1	0	0	0	0	0	0	-2.41	-0.42	2	0	-2	1800	0	-1800

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/23/2024 22:02	67802	WLAN_T1	0	16	16	0	0.16	0.16	0	0	0	0	0	0	0	0
8/23/2024 22:02	52404	GRPA_T2	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
8/23/2024 22:02	67805	WLAN_T1	397	535	138	0.24	0.39	0.15	-1.26	-1.37	0	0	0	0	0	0
8/23/2024 22:02	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.05	1	1	0	600	600	0
8/23/2024 22:03	43108	SMIL_T2	0	3	3	0	0.37	0.37	-1.05	-1.04	1	1	0	1200	1200	0
8/23/2024 22:03	43102	SMIL_T2	6	9	3	0.73	0.74	0.01	-0.77	-0.77	1	1	0	600	600	0
8/23/2024 22:03	43105	SMIL_T2	14	16	2	0.18	0.35	0.17	0	0	0	0	0	0	0	0
8/23/2024 22:03	58402	MORO_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
8/23/2024 22:03	63501	HEID_TBK1-2	55	55	0	2.08	2.3	0.22	0.56	0.53	0	0	0	0	0	0
8/23/2024 22:03	55001	NEWP_T1	0	0	0	0	0	0	-0.23	-0.31	0	0	0	0	0	0
8/23/2024 22:03	43103	SMIL_T2	16	21	5	0.66	0.72	0.06	0	0	0	0	0	0	0	0
8/23/2024 22:03	57403	SPAN_T1	39	5	-34	0.38	0.16	-0.22	0	0	0	0	0	0	0	0
8/23/2024 22:03	45402	WBLO_T2	21	63	42	0.2	0.28	0.08	-0.74	-0.72	0	0	0	0	0	0
8/23/2024 22:03	46203	DANV_T2	1	1	0	8.3	9	0.7	0	0	0	0	0	0	0	0
8/23/2024 22:03	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.05	1	1	0	600	600	0
8/23/2024 22:03	41901	REED_T1	9	2	-7	0.29	0.15	-0.14	0	0	0	0	0	0	0	0
8/23/2024 22:03	46206	DANV_T2	0	0	0	0	0	0	0.48	0.45	2	2	0	2100	2100	0
8/23/2024 22:03	55002	NEWP_T1	4	0	-4	0.38	0	-0.38	0	0	0	0	0	0	0	0
8/23/2024 22:03	41902	REED_T1	0	0	0	0	0	0	1.05	1.09	0	0	0	0	0	0
8/23/2024 22:03	57401	SPAN_T1	2	2	0	1.3	0.8	-0.5	-0.63	-0.61	1	1	0	600	600	0
8/23/2024 22:03	42802	SELI_T1	0	0	0	0	0	0	-1.2	-0.21	1	0	-1	900	0	-900
8/23/2024 22:04	42902	MIDD_T2	0	0	0	0	0	0	-1.18	-1.25	0	0	0	0	0	0
8/23/2024 22:04	46402	FLEM_T2	1203	1224	21	0.95	1.2	0.25	0	0	0	0	0	0	0	0
8/23/2024 22:04	43104	SMIL_T2	0	0	0	0	0	0	-0.7	-0.72	1	1	0	300	300	0
8/23/2024 22:04	41901	REED_T1	9	2	-7	0.29	0.15	-0.14	0	0	0	0	0	0	0	0
8/23/2024 22:04	43105	SMIL_T2	14	16	2	0.18	0.35	0.17	0	0	0	0	0	0	0	0
8/23/2024 22:04	44801	EDAN_T2	117	247	130	0.4	0.53	0.13	0	0	0	0	0	0	0	0
8/23/2024 22:04	44201	PONI_T1	60	84	24	0.17	0.18	0.01	-1.87	-1.88	2	2	0	2100	2100	0
8/23/2024 22:04	42802	SELI_T1	0	0	0	0	0	0	-1.2	-0.21	1	0	-1	900	0	-900
8/23/2024 22:04	40101	HUNT_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
8/23/2024 22:04	42801	SELI_T1	0	0	0	0	0	0	-1.87	-2	1	1	0	1200	1200	0
8/23/2024 22:04	57401	SPAN_T1	2	2	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
8/23/2024 22:04	46401	FLEM_T2	920	975	55	0.85	1.07	0.22	-0.17	-0.3	0	0	0	0	0	0
8/23/2024 22:04	46506	LOHA_T1	0	1	1	0	0.1	0.1	0	0.01	0	0	0	0	0	0
8/23/2024 22:04	57403	SPAN_T1	39	5	-34	0.38	0.16	-0.22	0.15	0.15	0	0	0	0	0	0
8/23/2024 22:04	43103	SMIL_T2	16	21	5	0.66	0.72	0.06	0	0	0	0	0	0	0	0
8/23/2024 22:04	44802	EDAN_T2	0	0	0	0	0	0	-1.19	-1.15	0	0	0	0	0	0
8/23/2024 22:04	43102	SMIL_T2	6	9	3	0.73	0.74	0.01	0	0	0	0	0	0	0	0
8/23/2024 22:04	43108	SMIL_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
8/23/2024 22:04	46504	LOHA_T1	3	5	2	1.03	0.68	-0.35	0	0	0	0	0	0	0	0
8/23/2024 22:04	47502	NECO_T1	1	1	0	0.8	0.9	0.1	0.79	0.79	0	0	0	0	0	0
8/23/2024 22:04	67402	WAKE_T2	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
8/23/2024 22:04	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 22:04	41902	REED_T1	0	0	0	0	0	0	1.05	1.09	0	0	0	0	0	0
8/23/2024 22:04	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 22:05	46203	DANV_T2	1	1	0	8.3	9	0.7	-0.61	-0.66	0	0	0	0	0	0
8/23/2024 22:05	52401	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/23/2024 22:05	42902	MIDD_T2	0	0	0	0	0	0	-0.59	-0.63	0	0	0	0	0	0
8/23/2024 22:05	49803	UNIV_T1	1	1	0	5.1	4.6	-0.5	-2.16	-2.27	0	0	0	0	0	0
8/23/2024 22:05	52403	GRPA_T2	2	2	0	1.5	0.6	-0.9	0	0	0	0	0	0	0	0
8/23/2024 22:05	40903	JESH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 22:05	42903	MIDD_T2	0	0	0	0	0	0	-0.42	-0.33	0	0	0	0	0	0
8/23/2024 22:05	49804	UNIV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/23/2024 22:05	54505	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/23/2024 22:05	51704	OBER_T1	0	0	0	0	0	0	-0.25	-0.29	0	0	0	0	0	0
8/23/2024 22:05	43105	SMIL_T2	14	16	2	0.18	0.35	0.17	0	0	0	0	0	0	0	0
8/23/2024 22:05	43108	SMIL_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
8/23/2024 22:05	43102	SMIL_T2	6	9	3	0.73	0.74	0.01	0	0	0	0	0	0	0	0
8/23/2024 22:05	52404	GRPA_T2	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
8/23/2024 22:05	42802	SELI_T1	0	0	0	0	0	0	-1.2	-0.21	1	0	-1	900	0	-900
8/23/2024 22:05	54503	ENOL_T2	0	0	0	0	0	0	-1.13	-1.18	1	1	0	600	600	0
8/23/2024 22:05	46504	LOHA_T1	3	5	2	1.03	0.68	-0.35	0	0	0	0	0	0	0	0
8/23/2024 22:05	43103	SMIL_T2	16	21	5	0.66	0.72	0.06	0	0	0	0	0	0	0	0
8/23/2024 22:05	46506	LOHA_T1	0	1	1	0	0.1	0.1	0	0.01	0	0	0	0	0	0
8/23/2024 22:05	46401	FLEM_T2	920	975	55	0.85	1.07	0.22	0	0	0	0	0	0	0	0
8/23/2024 22:05	46402	FLEM_T2	1203	1224	21	0.95	1.2	0.25	-0.53	-0.58	0	0	0	0	0	0
8/23/2024 22:05	51702	OBER_T1	2	2	0	2.95	2.7	-0.25	-0.66	-0.7	1	1	0	600	600	0
8/23/2024 22:05	21501	CEAV_T2	0	0	0	0	0	0	0.16	0.13	1	1	0	1200	1200	0
8/23/2024 22:05	10801	CHHI_T1	0	0	0	0	0	0	-0.78	-0.63	1	1	0	900	900	0
8/23/2024 22:05	40902	JESH_T1	1	17	16	0.1	0.12	0.02	-0.69	-0.66	0	0	0	0	0	0
8/23/2024 22:05	43101	SMIL_T2	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
8/23/2024 22:05	52402	GRPA_T2	4	4	0	1.05	0.28	-0.77	-0.67	-0.68	0	0	0	0	0	0
8/23/2024 22:06	40101	HUNT_T2	0	0	0	0	0	0	-0.59	-0.64	0	0	0	0	0	0
8/23/2024 22:06	46402	FLEM_T2	1203	1224	21	0.95	1.2	0.25	-0.58	-0.63	0	0	0	0	0	0
8/23/2024 22:06	42903	MIDD_T2	0	0	0	0	0	0	-0.33	-0.07	0	0	0	0	0	0
8/23/2024 22:06	46504	LOHA_T1	3	5	2	1.03	0.68	-0.35	0	0	0	0	0	0	0	0
8/23/2024 22:06	46401	FLEM_T2	920	975	55	0.85	1.07	0.22	0	0	0	0	0	0	0	0
8/23/2024 22:06	41002	LAUR_T2	77	83	6	1.67	1.66	-0.01	0.13	0.1	0	0	0	0	0	0
8/23/2024 22:06	46506	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/23/2024 22:06	41901	REED_T1	9	2	-7	0.29	0.15	-0.14	0	0	0	0	0	0	0	0
8/23/2024 22:06	53601	DALM_T2	1	1	0	0.8	1.2	0.4	-0.06	-0.07	0	0	0	0	0	0
8/23/2024 22:06	41001	LAUR_T2	116	120	4	1.63	1.71	0.08	0	0	0	0	0	0	0	0
8/23/2024 22:06	42201	SHEN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2024 22:06	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
8/23/2024 22:07	42802	SELI_T1	0	0	0	0	0	0	-0.21	-0.3	0	0	0	0	0	0
8/23/2024 22:10	59102	WALK_T2	41	0	-41	0.16	0	-0.16	0	0	0	0	0	0	0	0
8/23/2024 22:10	59101	WALK_T2	0	0	0	0	0	0	-0.28	-0.36	0	0	0	0	0	0
8/23/2024 22:10	54505	ENOL_T2	1	1	0	0.6	0.6	0	-1.12	-1.11	1	1	0	600	600	0
8/23/2024 22:15	63403	HONY_T2	0	0	0	0	0	0	-0.45	-0.47	1	1	0	600	600	0
8/23/2024 22:15	63402	HONY_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 22:37	14201	FALL_T1	0	0	0	0	0	0	0.67	0.8	0	0	0	0	0	0
8/23/2024 22:47	44801	EDAN_T2	295	301	6	0.51	0.58	0.07	0	0	0	0	0	0	0	0
8/23/2024 22:47	44802	EDAN_T2	0	0	0	0	0	0	-0.63	-0.69	0	0	0	0	0	0
8/23/2024 22:56	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/23/2024 23:17	51904	COPA_T1	5	5	0	0.66	0.9	0.24	0	0	0	0	0	0	0	0
8/23/2024 23:17	51906	COPA_T1	0	0	0	0	0	0	-1.01	-1.01	2	2	0	1500	1500	0
8/23/2024 23:35	65901	SAKR_T2	1	1	0	9.2	9.6	0.4	-1.29	-1.32	1	1	0	900	900	0
8/23/2024 23:54	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 1:39	22701	MINO_T1	0	0	0	0	0	0	-0.39	-0.35	0	0	0	0	0	0
8/24/2024 5:06	28403	HART_T2	0	0	0	0	0	0	-1.05	-1.05	1	1	0	900	900	0
8/24/2024 7:13	45902	AUBU_T1	13	8	-5	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
8/24/2024 7:13	45901	AUBU_T1	0	0	0	0	0	0	1.02	1.02	0	0	0	0	0	0
8/24/2024 7:20	56501	ROCK_T2	4	2	-2	1.33	0.55	-0.78	-0.12	-0.11	0	0	0	0	0	0
8/24/2024 7:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 7:22	15202	SFAR_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
8/24/2024 7:25	51906	COPA_T1	0	0	0	0	0	0	-1.16	-1.12	2	2	0	1500	1500	0
8/24/2024 7:25	51904	COPA_T1	5	5	0	1.06	1.16	0.1	0	0	0	0	0	0	0	0
8/24/2024 7:26	61503	EPET_T1	0	0	0	0	0	0	-1.18	-1.12	0	0	0	0	0	0
8/24/2024 7:31	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
8/24/2024 7:31	54501	ENOL_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
8/24/2024 7:31	54503	ENOL_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	600	600	0
8/24/2024 7:31	54502	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/24/2024 7:32	12006	HATF_T1	0	0	0	0	0	0	0.37	0.43	0	0	0	0	0	0
8/24/2024 7:32	63804	HEMP_T1	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
8/24/2024 7:32	63801	HEMP_T1	0	0	0	0	0	0	-1.29	-1.27	1	1	0	900	900	0
8/24/2024 7:33	12605	MACA_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
8/24/2024 7:34	13803	SALI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 7:35	12605	MACA_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
8/24/2024 7:36	13803	SALI_T1	0	0	0	0	0	0	-0.91	-0.86	2	2	0	2400	2400	0
8/24/2024 7:37	15203	SFAR_T2	31	20	-11	0.11	0.1	-0.01	-1.32	-1.28	0	0	0	0	0	0
8/24/2024 7:38	13803	SALI_T1	0	0	0	0	0	0	-0.91	-0.86	2	2	0	2400	2400	0
8/24/2024 7:39	13803	SALI_T1	0	0	0	0	0	0	-0.91	-0.86	2	2	0	2400	2400	0
8/24/2024 7:40	16004	DORN_T1	0	0	0	0	0	0	0.18	0.24	0	0	0	0	0	0
8/24/2024 7:42	53501	EVIL_T2	4	4	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
8/24/2024 7:42	29402	BELT_T1	288	264	-24	1.09	1.01	-0.08	0	0	0	0	0	0	0	0
8/24/2024 7:42	16004	DORN_T1	0	0	0	0	0	0	0.18	0.24	0	0	0	0	0	0
8/24/2024 7:42	53502	EVIL_T2	7	3	-4	0.23	0.4	0.17	-0.03	0.03	0	0	0	0	0	0
8/24/2024 7:42	10702	CATA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/24/2024 7:42	10701	CATA_T2	0	0	0	0	0	0	-0.78	-0.75	1	1	0	1200	1200	0
8/24/2024 7:42	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 7:43	62104	ELAN_T1	0	0	0	0	0	0	1.39	1.41	0	0	0	0	0	0
8/24/2024 7:43	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 7:45	62104	ELAN_T1	0	0	0	0	0	0	1.39	1.41	0	0	0	0	0	0
8/24/2024 7:45	16004	DORN_T1	0	0	0	0	0	0	0.18	0.24	0	0	0	0	0	0
8/24/2024 7:50	64904	MILL_T1	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
8/24/2024 7:54	40502	CRES_T2	7	10	3	0.36	0.29	-0.07	-0.91	-0.95	0	0	0	0	0	0
8/24/2024 7:54	40501	CRES_T2	2	3	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
8/24/2024 7:55	40502	CRES_T2	7	10	3	0.36	0.29	-0.07	-1.36	-1.42	0	0	0	0	0	0
8/24/2024 7:55	40501	CRES_T2	2	3	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
8/24/2024 7:56	40502	CRES_T2	7	10	3	0.36	0.29	-0.07	-0.45	-0.47	0	0	0	0	0	0
8/24/2024 7:56	40501	CRES_T2	2	3	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
8/24/2024 7:57	40501	CRES_T2	2	3	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
8/24/2024 7:57	40502	CRES_T2	7	10	3	0.36	0.29	-0.07	-0.45	-0.47	0	0	0	0	0	0
8/24/2024 7:57	40504	CRES_T1	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
8/24/2024 7:58	11903	ETEX_T1	0	0	0	0	0	0	0.25	0.31	0	0	0	0	0	0
8/24/2024 7:58	40501	CRES_T2	2	3	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
8/24/2024 7:58	40502	CRES_T2	7	10	3	0.36	0.29	-0.07	-0.45	-0.47	0	0	0	0	0	0
8/24/2024 7:59	40101	HUNT_T2	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
8/24/2024 7:59	52403	GRPA_T2	2	2	0	1.3	0.8	-0.5	-0.67	-0.65	0	0	0	0	0	0
8/24/2024 7:59	40502	CRES_T2	7	10	3	0.36	0.29	-0.07	-0.45	-0.47	0	0	0	0	0	0
8/24/2024 7:59	40501	CRES_T2	2	3	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
8/24/2024 8:00	40504	CRES_T1	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
8/24/2024 8:04	46102	MACI_T1	0	0	0	0	0	0	0.76	0.77	0	0	0	0	0	0
8/24/2024 8:07	67503	WEWI_T2	1	1	0	7.8	7.9	0.1	-0.25	-0.24	0	0	0	0	0	0
8/24/2024 8:10	40501	CRES_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
8/24/2024 8:10	40502	CRES_T2	10	5	-5	0.29	0.38	0.09	-0.47	-0.43	0	0	0	0	0	0
8/24/2024 8:13	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/24/2024 8:13	54506	ENOL_T2	0	0	0	0	0	0	-0.15	-0.11	1	1	0	600	600	0
8/24/2024 8:15	40501	CRES_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
8/24/2024 8:15	51402	LYKE_T1	62	28	-34	0.21	0.23	0.02	-0.95	-0.92	0	0	0	0	0	0
8/24/2024 8:15	40502	CRES_T2	5	5	0	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
8/24/2024 8:17	50502	MECH_T1	1	1	0	2.2	2	-0.2	-0.5	-0.46	0	0	0	0	0	0
8/24/2024 8:17	50501	MECH_T1	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/24/2024 8:18	46102	MACI_T1	0	0	0	0	0	0	0.77	0.79	0	0	0	0	0	0
8/24/2024 8:19	13503	MCMI_T2	0	1	1	0	0.2	0.2	-0.01	-0.96	0	0	0	0	0	0
8/24/2024 8:20	15203	SFAR_T2	0	1	1	0	0.1	0.1	-1.26	-1.25	0	0	0	0	0	0
8/24/2024 8:20	51402	LYKE_T1	62	28	-34	0.21	0.23	0.02	-0.95	-0.92	0	0	0	0	0	0
8/24/2024 8:21	51402	LYKE_T1	62	28	-34	0.21	0.23	0.02	-0.95	-0.92	0	0	0	0	0	0
8/24/2024 8:21	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 8:21	14201	EALL_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
8/24/2024 8:21	60502	NMAN_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
8/24/2024 8:23	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 8:26	53902	HALI_T2	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
8/24/2024 8:26	53903	HALI_T2	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
8/24/2024 8:26	53901	HALI_T2	1	1	0	0.7	0.4	-0.3	-1.25	-1.25	0	0	0	0	0	0
8/24/2024 8:29	63501	HEID_TBK1-2	55	55	0	2	1.17	-0.83	-0.92	-0.82	2	2	0	1800	1800	0
8/24/2024 8:34	42201	SHEN_T2	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
8/24/2024 8:39	67605	WARW_T1	12	15	3	0.52	0.51	-0.01	0	0	0	0	0	0	0	0
8/24/2024 8:39	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 8:41	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 8:43	67604	WARW_T1	0	0	0	0	0	0	-0.07	-0.01	0	0	0	0	0	0
8/24/2024 8:43	67605	WARW_T1	12	15	3	0.52	0.51	-0.01	0	0	0	0	0	0	0	0
8/24/2024 8:53	53102	WTWN_T1	7	2	-5	0.16	0.15	-0.01	-1.02	-0.98	0	0	0	0	0	0
8/24/2024 8:53	53101	WTWN_T1	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/24/2024 8:56	53102	WTWN_T1	7	2	-5	0.16	0.15	-0.01	-0.51	-0.49	0	0	0	0	0	0
8/24/2024 8:56	53101	WTWN_T1	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/24/2024 8:58	63403	HONY_T2	0	0	0	0	0	0	-0.44	-0.41	1	1	0	600	600	0
8/24/2024 9:03	51402	LYKE_T1	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/24/2024 9:03	51401	LYKE_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
8/24/2024 9:04	15203	SFAR_T2	1	2	1	0.1	0.2	0.1	-1.18	-1.15	0	0	0	0	0	0
8/24/2024 9:05	40602	PIGR_T1	1	0	-1	2.1	2	-0.1	-0.09	-0.06	1	1	0	600	600	0
8/24/2024 9:05	41902	REED_T1	0	1	1	0	0	0	0.85	0.85	0	0	0	0	0	0
8/24/2024 9:07	15203	SFAR_T2	1	2	1	0.1	0.2	0.1	-1.15	-1.13	0	0	0	0	0	0
8/24/2024 9:08	41902	REED_T1	0	1	1	0	0	0	0.85	0.9	0	0	0	0	0	0
8/24/2024 9:09	20403	ASHF_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
8/24/2024 9:09	41902	REED_T1	0	1	1	0	0	0	0.85	0.9	0	0	0	0	0	0
8/24/2024 9:10	45901	AUBU_T1	0	0	0	0	0	0	1.02	1.02	0	0	0	0	0	0
8/24/2024 9:10	20403	ASHF_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
8/24/2024 9:10	45902	AUBU_T1	1	3	2	1	0.5	-0.5	0	0	0	0	0	0	0	0
8/24/2024 9:10	64602	LEOL_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
8/24/2024 9:11	61301	EARL_T1	0	0	0	0	0	0	-1.09	-1.07	2	2	0	1800	1800	0
8/24/2024 9:12	45902	AUBU_T1	1	3	2	1	0.5	-0.5	-0.51	-0.47	0	0	0	0	0	0
8/24/2024 9:12	11507	FREE_T2	0	0	0	0	0	0	0.14	0.19	0	0	0	0	0	0
8/24/2024 9:13	45501	DERR_T2	0	0	0	0	0	0	-0.94	-0.99	4	4	0	3600	3600	0
8/24/2024 9:14	45501	DERR_T2	0	0	0	0	0	0	-0.47	-0.49	2	2	0	1800	1800	0
8/24/2024 9:19	56501	ROCK_T2	2	2	0	0.7	0.8	0.1	0.01	0.01	0	0	0	0	0	0
8/24/2024 9:22	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 9:22	42201	SHEN_T2	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
8/24/2024 9:24	56501	ROCK_T2	2	2	0	0.7	0.8	0.1	0.01	0.07	0	0	0	0	0	0
8/24/2024 9:24	67203	TEHI_T1	0	0	0	0	0	0	1.75	1.67	1	1	0	900	900	0
8/24/2024 9:24	41902	REED_T1	0	2	2	0	0.2	0.2	0.9	0.94	0	0	0	0	0	0
8/24/2024 9:25	42201	SHEN_T2	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
8/24/2024 9:26	45902	AUBU_T1	2	3	1	0.65	0.6	-0.05	-0.47	-0.41	0	0	0	0	0	0
8/24/2024 9:27	10602	BLGL_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
8/24/2024 9:28	46801	HEPB_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
8/24/2024 9:28	46803	HEPB_T2	0	1	1	0	0.2	0.2	0.55	0.55	0	0	0	0	0	0
8/24/2024 9:29	63403	HONY_T2	0	0	0	0	0	0	-0.54	-0.53	1	1	0	600	600	0
8/24/2024 9:34	64101	REFR_T1	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
8/24/2024 9:36	64101	REFR_T1	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
8/24/2024 9:37	64101	REFR_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
8/24/2024 9:37	57401	SPAN_T1	0	0	0	0	0	0	-1.18	-1.41	2	2	0	1200	1200	0
8/24/2024 9:37	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.28	0	0	0	0	0	0
8/24/2024 9:38	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/24/2024 9:38	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.28	0	0	0	0	0	0
8/24/2024 9:39	57401	SPAN_T1	0	0	0	0	0	0	-1.18	-1.41	2	2	0	1200	1200	0
8/24/2024 9:39	64101	REFR_T1	0	0	0	0	0	0	0.93	0.91	0	0	0	0	0	0
8/24/2024 9:40	67605	WARW_T1	3	4	1	0.37	0.3	-0.07	-1.07	-1.07	0	0	0	0	0	0
8/24/2024 9:40	64101	REFR_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
8/24/2024 9:40	60101	COCA_T1	0	1	1	0	0.2	0.2	0.39	0.38	0	0	0	0	0	0
8/24/2024 9:40	60102	COCA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/24/2024 9:41	60101	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/24/2024 9:41	60102	COCA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/24/2024 9:41	48302	ORWI_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/24/2024 9:41	45902	AUBU_T1	3	3	0	0.5	0.63	0.13	-0.83	-0.78	0	0	0	0	0	0
8/24/2024 9:42	67605	WARW_T1	3	4	1	0.37	0.3	-0.07	-1.07	-1.07	0	0	0	0	0	0
8/24/2024 9:43	45902	AUBU_T1	3	3	0	0.5	0.63	0.13	-0.41	-0.39	0	0	0	0	0	0
8/24/2024 9:43	44801	EDAN_T2	4	76	72	0.53	0.51	-0.02	-1.65	-1.62	0	0	0	0	0	0
8/24/2024 9:44	60101	COCA_T1	0	1	1	0	0.2	0.2	0.39	0.38	0	0	0	0	0	0
8/24/2024 9:44	60102	COCA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/24/2024 9:48	25402	LAHA_T2	0	0	0	0	0	0	-1.01	-0.92	0	0	0	0	0	0
8/24/2024 9:50	65001	NEFF_T2	0	0	0	0	0	0	-1.08	-1.1	1	1	0	1200	1200	0
8/24/2024 9:50	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/24/2024 9:50	57401	SPAN_T1	0	1	1	0	0	0	-0.59	-0.71	1	1	0	600	600	0
8/24/2024 9:50	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 9:51	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/24/2024 9:51	14308	SUMN_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
8/24/2024 9:51	60502	NMAN_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
8/24/2024 9:51	14303	SUMN_T1	3	3	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
8/24/2024 9:54	66505	SMAN_T2	0	0	0	0	0	0	0.67	0.61	2	2	0	1100	1100	0
8/24/2024 9:55	14702	TREX_T2	0	0	0	0	0	0	1.15	1.13	0	0	0	0	0	0
8/24/2024 9:55	11303	EMMA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/24/2024 9:55	11301	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 9:56	29402	BELT_T1	41	16	-25	0.65	0.78	0.13	0	0	0	0	0	0	0	0
8/24/2024 9:56	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 9:56	44801	EDAN_T2	74	58	-16	0.5	0.49	-0.01	-1.62	-1.6	0	0	0	0	0	0
8/24/2024 9:56	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 9:58	46401	FLEM_T2	13	5	-8	0.35	0.5	0.15	-0.42	-0.43	0	0	0	0	0	0
8/24/2024 9:58	46402	FLEM_T2	100	25	-75	0.16	0.16	0	0	0	0	0	0	0	0	0
8/24/2024 10:00	60504	NMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/24/2024 10:00	56501	ROCK_T2	1	3	2	0.7	0.2	-0.5	0.07	0.1	0	0	0	0	0	0
8/24/2024 10:00	16402	MOPO_T1	3	4	1	0.87	1.18	0.31	-0.18	-0.14	0	0	0	0	0	0
8/24/2024 10:00	55002	NEWP_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
8/24/2024 10:00	51201	MTON_T1	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
8/24/2024 10:00	59001	MIFF_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/24/2024 10:00	43202	MVIL_T2	0	0	0	0	0	0	-1.16	-1.27	0	0	0	0	0	0
8/24/2024 10:00	28102	TWLA_T2	3	5	2	0.17	0.22	0.05	0.2	0.21	0	0	0	0	0	0
8/24/2024 10:00	57401	SPAN_T1	0	0	0	0	0	0	-2.12	-2.42	3	3	0	1800	1800	0
8/24/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	0.25	0.3	0	0	0	0	0	0
8/24/2024 10:00	16006	DORN_T2	0	0	0	0	0	0	-0.41	-0.39	1	1	0	1200	1200	0
8/24/2024 10:00	15203	SFAR_T2	0	1	1	0	0.2	0.2	-1.01	-1	0	0	0	0	0	0
8/24/2024 10:00	59201	THOM_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/24/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
8/24/2024 10:00	55401	SHER_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 10:00	59002	MIFF_T1	0	5	5	0	0.28	0.28	0	0	0	0	0	0	0	0
8/24/2024 10:00	13503	MCMI_T2	3	7	4	0.33	0.43	0.1	-2.69	-2.68	0	0	0	0	0	0
8/24/2024 10:00	59202	THOM_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/24/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-1.1	-1.04	1	1	0	1200	1200	0
8/24/2024 10:00	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/24/2024 10:00	62102	ELAN_T1	0	0	0	0	0	0	0.71	0.77	0	0	0	0	0	0
8/24/2024 10:00	52202	DEVO_T2	0	0	0	0	0	0	-1.28	-1.29	0	0	0	0	0	0
8/24/2024 10:00	55001	NEWP_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
8/24/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
8/24/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
8/24/2024 10:06	67503	WEWI_T2	1	1	0	6.9	6.6	-0.3	-0.06	-0.04	0	0	0	0	0	0
8/24/2024 10:06	67502	WEWI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/24/2024 10:07	60504	NMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/24/2024 10:07	56501	ROCK_T2	1	3	2	0.7	0.2	-0.5	0.1	-1.19	0	0	0	0	0	0
8/24/2024 10:07	60502	NMAN_T2	0	0	0	0	0	0	-0.21	0.03	0	0	0	0	0	0
8/24/2024 10:08	67502	WEWI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/24/2024 10:08	56501	ROCK_T2	1	3	2	0.7	0.2	-0.5	0.1	-1.19	0	0	0	0	0	0
8/24/2024 10:08	59201	THOM_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/24/2024 10:08	67201	TEHI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/24/2024 10:08	67605	WARW_T1	3	3	0	0.27	0.23	-0.04	-1.05	-1.02	0	0	0	0	0	0
8/24/2024 10:08	67203	TEHI_T1	0	0	0	0	0	0	1.46	1.33	1	1	0	900	900	0
8/24/2024 10:08	67503	WEWI_T2	1	1	0	6.9	6.6	-0.3	-0.06	-0.04	0	0	0	0	0	0
8/24/2024 10:08	59202	THOM_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/24/2024 10:08	57401	SPAN_T1	0	0	0	0	0	0	-0.81	-0.78	1	1	0	600	600	0
8/24/2024 10:09	67605	WARW_T1	3	3	0	0.27	0.23	-0.04	-1.05	-1.02	0	0	0	0	0	0
8/24/2024 10:09	20403	ASHF_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
8/24/2024 10:09	57401	SPAN_T1	0	0	0	0	0	0	-0.81	-0.78	1	1	0	600	600	0
8/24/2024 10:09	16101	BING_T2	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
8/24/2024 10:09	66505	SMAN_T2	0	0	0	0	0	0	0.61	0.39	2	2	0	1100	1500	400
8/24/2024 10:09	60504	NMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/24/2024 10:09	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 10:10	20403	ASHF_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
8/24/2024 10:10	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 10:10	45501	DERR_T2	0	0	0	0	0	0	-0.34	-0.39	2	2	0	1800	1800	0
8/24/2024 10:10	14702	TREX_T2	0	0	0	0	0	0	0.56	0.6	0	0	0	0	0	0
8/24/2024 10:11	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 10:11	20403	ASHF_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
8/24/2024 10:11	44801	EDAN_T2	55	64	9	0.47	0.45	-0.02	-1.6	-1.59	0	0	0	0	0	0
8/24/2024 10:11	45901	AUBU_T1	0	0	0	0	0	0	0.98	1.02	0	0	0	0	0	0
8/24/2024 10:11	45501	DERR_T2	0	0	0	0	0	0	-0.68	-0.77	4	4	0	3600	3600	0
8/24/2024 10:11	45902	AUBU_T1	3	3	0	0.57	0.9	0.33	0	0	0	0	0	0	0	0
8/24/2024 10:11	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 10:11	14702	TREX_T2	0	0	0	0	0	0	0.56	0.6	0	0	0	0	0	0
8/24/2024 10:12	45902	AUBU_T1	3	3	0	0.57	0.9	0.33	-0.37	-0.38	0	0	0	0	0	0
8/24/2024 10:12	67605	WARW_T1	3	3	0	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
8/24/2024 10:12	21501	CEAV_T2	0	0	0	0	0	0	2.02	1.93	0	0	0	0	0	0
8/24/2024 10:12	10801	CHHI_T1	4	1	-3	0.55	0	-0.55	-1.17	-1.14	2	2	0	1500	1500	0
8/24/2024 10:12	67603	WARW_T1	0	0	0	0	0	0	-0.02	0.02	0	0	0	0	0	0
8/24/2024 10:13	20403	ASHF_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
8/24/2024 10:13	45902	AUBU_T1	3	3	0	0.57	0.9	0.33	0	0	0	0	0	0	0	0
8/24/2024 10:13	45901	AUBU_T1	0	0	0	0	0	0	0.98	1.02	0	0	0	0	0	0
8/24/2024 10:13	20401	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 10:14	63501	HEID_TBK1-2	57	56	-1	1.22	1.5	0.28	-0.22	-0.15	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/24/2024 10:15	11507	FREE_T2	0	0	0	0	0	0	0.43	0.51	0	0	0	0	0	0
8/24/2024 10:15	45902	AUBU_T1	1	3	2	1.4	1.07	-0.33	-0.73	-0.76	0	0	0	0	0	0
8/24/2024 10:15	44801	EDAN_T2	56	57	1	0.47	0.43	-0.04	-1.6	-1.59	0	0	0	0	0	0
8/24/2024 10:17	25501	MADI_T1	4	4	0	0.4	0.73	0.33	0	0	0	0	0	0	0	0
8/24/2024 10:17	25503	MADI_T1	0	4	4	0	0.23	0.23	-0.85	-0.83	0	0	0	0	0	0
8/24/2024 10:17	25502	MADI_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/24/2024 10:19	12801	MICK_T1	0	0	0	0	0	0	-0.85	-0.76	1	1	0	600	600	0
8/24/2024 10:19	63501	HEID_TBK1-2	55	56	1	1.59	1.59	0	-0.22	-0.15	1	1	0	900	900	0
8/24/2024 10:20	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 10:20	42201	SHEN_T2	0	0	0	0	0	0	0.68	0.71	0	0	0	0	0	0
8/24/2024 10:20	63801	HEMP_T1	0	0	0	0	0	0	-0.98	-0.27	1	1	0	900	900	0
8/24/2024 10:20	63804	HEMP_T1	1	1	0	6.6	5.9	-0.7	0	0	0	0	0	0	0	0
8/24/2024 10:22	42201	SHEN_T2	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
8/24/2024 10:22	59201	THOM_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/24/2024 10:22	59202	THOM_T1	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
8/24/2024 10:23	59202	THOM_T1	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
8/24/2024 10:23	59201	THOM_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/24/2024 10:24	16103	BING_T2	0	0	0	0	0	0	-1.25	-1.14	1	1	0	900	900	0
8/24/2024 10:24	66504	SMAN_T2	0	0	0	0	0	0	-0.1	-1.36	0	1	1	0	1200	1200
8/24/2024 10:25	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/24/2024 10:25	29402	BELT_T1	14	28	14	0.81	0.6	-0.21	0	0	0	0	0	0	0	0
8/24/2024 10:25	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 10:25	10602	BLGL_T2	0	1	1	0	0.4	0.4	0.29	0.26	0	0	0	0	0	0
8/24/2024 10:25	66504	SMAN_T2	0	0	0	0	0	0	-0.21	-2.73	0	2	2	0	2400	2400
8/24/2024 10:26	60102	COCA_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/24/2024 10:26	60101	COCA_T1	2	2	0	0.15	0.45	0.3	0.9	1.11	0	0	0	0	0	0
8/24/2024 10:27	60102	COCA_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/24/2024 10:27	44801	EDAN_T2	56	57	1	0.47	0.43	-0.04	-1.59	-1.57	0	0	0	0	0	0
8/24/2024 10:27	29402	BELT_T1	14	28	14	0.81	0.6	-0.21	0	0	0	0	0	0	0	0
8/24/2024 10:27	60101	COCA_T1	2	2	0	0.15	0.45	0.3	0.9	1.11	0	0	0	0	0	0
8/24/2024 10:28	16102	BING_T2	0	0	0	0	0	0	1.22	1.15	0	0	0	0	0	0
8/24/2024 10:28	60102	COCA_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/24/2024 10:28	48302	ORWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 10:28	60101	COCA_T1	2	2	0	0.15	0.45	0.3	0.45	0.56	0	0	0	0	0	0
8/24/2024 10:29	45902	AUBU_T1	1	3	2	1.4	1.07	-0.33	-0.38	-0.4	0	0	0	0	0	0
8/24/2024 10:29	60102	COCA_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/24/2024 10:29	63401	HONY_T1	0	0	0	0	0	0	0.09	0.19	1	1	0	600	600	0
8/24/2024 10:29	20601	GRWO_T2	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
8/24/2024 10:29	60101	COCA_T1	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
8/24/2024 10:32	63403	HONY_T2	0	0	0	0	0	0	-0.47	-0.48	1	1	0	600	600	0
8/24/2024 10:32	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 10:33	65205	PRIN_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
8/24/2024 10:34	56501	ROCK_T2	3	4	1	0.2	0.13	-0.07	-1.19	-1.19	0	0	0	0	0	0
8/24/2024 10:35	42801	SELI_T1	0	0	0	0	0	0	-1.84	-1.69	1	1	0	1200	1200	0
8/24/2024 10:36	56501	ROCK_T2	3	4	1	0.2	0.13	-0.07	-1.19	-1.19	0	0	0	0	0	0
8/24/2024 10:36	57205	ROSS_T1	1	1	0	0.6	0.8	0.2	-0.75	-0.75	1	1	0	900	900	0
8/24/2024 10:37	41902	REED_T1	2	6	4	0.35	0.6	0.25	0.97	1.06	0	0	0	0	0	0
8/24/2024 10:38	41902	REED_T1	2	6	4	0.35	0.6	0.25	0.97	1.06	0	0	0	0	0	0
8/24/2024 10:39	41902	REED_T1	2	6	4	0.35	0.6	0.25	0.97	1.06	0	0	0	0	0	0
8/24/2024 10:39	56501	ROCK_T2	3	4	1	0.2	0.13	-0.07	-1.19	-1.17	0	0	0	0	0	0
8/24/2024 10:40	42302	MOWR_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
8/24/2024 10:41	60101	COCA_T1	2	2	0	0.15	0.45	0.3	0.56	0.52	0	0	0	0	0	0
8/24/2024 10:41	60102	COCA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/24/2024 10:42	60101	COCA_T1	2	2	0	0.15	0.45	0.3	1.67	1.57	0	0	0	0	0	0
8/24/2024 10:42	60102	COCA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/24/2024 10:42	56501	ROCK_T2	3	4	1	0.2	0.13	-0.07	-1.19	-1.17	0	0	0	0	0	0
8/24/2024 10:45	22901	HARW_T1	0	0	0	0	0	0	-0.57	-0.56	1	1	0	1200	1200	0
8/24/2024 10:45	22903	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 10:46	63302	GREE_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
8/24/2024 10:48	41702	LOGA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/24/2024 10:48	20603	GRWO_T2	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
8/24/2024 10:49	55002	NEWP_T1	1	1	0	1.5	1.5	0	-0.16	-0.15	0	0	0	0	0	0
8/24/2024 10:51	55001	NEWP_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
8/24/2024 10:51	55002	NEWP_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
8/24/2024 10:54	55002	NEWP_T1	1	1	0	1.5	1.5	0	-0.15	-0.15	0	0	0	0	0	0
8/24/2024 10:54	59202	THOM_T1	3	4	1	0.2	0.2	0	0	0	0	0	0	0	0	0
8/24/2024 10:54	59201	THOM_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/24/2024 10:54	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/24/2024 10:54	66502	SMAN_T2	0	0	0	0	0	0	0.09	0.18	0	0	0	0	0	0
8/24/2024 10:55	42202	SHEN_T2	0	11	11	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 10:55	42201	SHEN_T2	0	0	0	0	0	0	0.73	0.81	0	0	0	0	0	0
8/24/2024 10:57	53601	DALM_T2	1	1	0	0.1	0.2	0.1	-0.03	-0.03	0	0	0	0	0	0
8/24/2024 10:59	64203	KINZ_T1	0	0	0	0	0	0	1.11	1.09	1	1	0	600	600	0
8/24/2024 10:59	64204	KINZ_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
8/24/2024 11:00	46803	HEPB_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
8/24/2024 11:00	46801	HEPB_T2	2	2	0	0.25	0.35	0.1	0.79	0.8	0	0	0	0	0	0
8/24/2024 11:01	25402	LAHA_T2	0	0	0	0	0	0	-0.29	-0.25	0	0	0	0	0	0
8/24/2024 11:02	45802	HEGI_T2	8	1	-7	0.18	0.2	0.02	0.93	0.95	0	0	0	0	0	0
8/24/2024 11:02	46801	HEPB_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
8/24/2024 11:02	25402	LAHA_T2	0	0	0	0	0	0	-0.29	-0.25	0	0	0	0	0	0
8/24/2024 11:02	46803	HEPB_T2	1	1	0	0.6	0.9	0.3	0.86	0.59	0	0	0	0	0	0
8/24/2024 11:04	48302	ORWI_T2	1	2	1	0.5	0.3	-0.2	-0.58	-0.57	0	0	0	0	0	0
8/24/2024 11:06	48302	ORWI_T2	1	2	1	0.5	0.3	-0.2	-0.57	-0.57	0	0	0	0	0	0
8/24/2024 11:07	13905	SEID_T1	0	0	0	0	0	0	-0.75	-0.69	1	1	0	1200	1200	0
8/24/2024 11:08	23002	SAJO_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/24/2024 11:08	23001	SAJO_T1	0	0	0	0	0	0	-0.86	-0.82	0	0	0	0	0	0
8/24/2024 11:11	44301	BEAV_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/24/2024 11:14	20403	ASHF_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
8/24/2024 11:14	20401	ASHF_T2	1	2	1	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
8/24/2024 11:18	12701	MACU_T1	1	0	-1	0.7	0	-0.7	0.28	0.28	0	0	0	0	0	0
8/24/2024 11:18	41002	LAUR_T2	1	0	-1	1.3	1.3	0	-0.18	-0.17	0	0	0	0	0	0
8/24/2024 11:19	12701	MACU_T1	1	0	-1	0.7	0	-0.7	0.28	0.28	0	0	0	0	0	0
8/24/2024 11:22	64101	REFR_T1	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
8/24/2024 11:24	64101	REFR_T1	0	0	0	0	0	0	0.33	0.42	0	0	0	0	0	0
8/24/2024 11:25	64101	REFR_T1	0	0	0	0	0	0	0.22	0.28	0	0	0	0	0	0
8/24/2024 11:26	25603	ARRO_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
8/24/2024 11:27	44801	EDAN_T2	36	34	-2	0.34	0.4	0.06	0	0	0	0	0	0	0	0
8/24/2024 11:27	64101	REFR_T1	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
8/24/2024 11:27	44802	EDAN_T2	0	0	0	0	0	0	-1.79	-1.77	0	0	0	0	0	0
8/24/2024 11:27	14702	TREX_T2	0	0	0	0	0	0	0.73	0.76	0	0	0	0	0	0
8/24/2024 11:28	44801	EDAN_T2	36	34	-2	0.34	0.4	0.06	0	0	0	0	0	0	0	0
8/24/2024 11:28	44802	EDAN_T2	0	0	0	0	0	0	-1.79	-1.77	0	0	0	0	0	0
8/24/2024 11:29	44801	EDAN_T2	36	34	-2	0.34	0.4	0.06	-1.53	-1.53	0	0	0	0	0	0
8/24/2024 11:29	44802	EDAN_T2	0	0	0	0	0	0	-3.58	-3.55	0	0	0	0	0	0
8/24/2024 11:30	44801	EDAN_T2	33	18	-15	0.39	0.48	0.09	0	0	0	0	0	0	0	0
8/24/2024 11:30	53601	DALM_T2	0	1	1	0	0.2	0.2	-0.03	-0.03	0	0	0	0	0	0
8/24/2024 11:30	44802	EDAN_T2	0	0	0	0	0	0	-1.79	-1.77	0	0	0	0	0	0
8/24/2024 11:31	44801	EDAN_T2	33	18	-15	0.39	0.48	0.09	0	0	0	0	0	0	0	0
8/24/2024 11:31	44802	EDAN_T2	0	0	0	0	0	0	-1.79	-1.77	0	0	0	0	0	0
8/24/2024 11:33	62104	ELAN_T1	0	0	0	0	0	0	0.11	0.07	2	2	0	1500	1500	0
8/24/2024 11:34	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
8/24/2024 11:34	56501	ROCK_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
8/24/2024 11:34	56504	ROCK_T2	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
8/24/2024 11:35	64902	MILL_T2	0	0	0	0	0	0	-0.97	-0.96	1	1	0	900	900	0
8/24/2024 11:35	57104	SPHI_T2	2	1	-1	0.35	0.7	0.35	-1.68	-1.65	1	1	0	900	900	0
8/24/2024 11:35	41001	LAUR_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
8/24/2024 11:35	57106	SPHI_T2	3	3	0	1	0.77	-0.23	0	0	0	0	0	0	0	0
8/24/2024 11:35	41002	LAUR_T2	1	1	0	0.9	1.4	0.5	-0.17	-0.35	0	0	0	0	0	0
8/24/2024 11:35	57101	SPHI_T2	6	6	0	0.63	0.37	-0.26	0	0	0	0	0	0	0	0
8/24/2024 11:36	42801	SELI_T1	1	1	0	0.9	1.7	0.8	0	0	0	0	0	0	0	0
8/24/2024 11:36	56501	ROCK_T2	2	2	0	0.45	0.5	0.05	-1.11	-1.09	0	0	0	0	0	0
8/24/2024 11:36	42802	SELI_T1	0	0	0	0	0	0	-3.3	-2.93	0	3	3	0	2700	2700
8/24/2024 11:37	58402	MORO_T1	1	0	-1	0.1	0	-0.1	-0.2	-0.15	2	2	0	1500	1500	0
8/24/2024 11:37	42802	SELI_T1	0	0	0	0	0	0	-2.2	-1.95	2	2	0	1800	1800	0
8/24/2024 11:37	42801	SELI_T1	1	1	0	0.9	1.7	0.8	0	0	0	0	0	0	0	0
8/24/2024 11:38	57101	SPHI_T2	6	6	0	0.63	0.37	-0.26	0	0	0	0	0	0	0	0
8/24/2024 11:38	57106	SPHI_T2	3	3	0	1	0.77	-0.23	0	0	0	0	0	0	0	0
8/24/2024 11:38	57104	SPHI_T2	2	1	-1	0.35	0.7	0.35	-3.31	-3.18	2	2	0	1800	1800	0
8/24/2024 11:39	42801	SELI_T1	1	1	0	0.9	1.7	0.8	0	0	0	0	0	0	0	0
8/24/2024 11:39	42802	SELI_T1	0	0	0	0	0	0	-2.2	-1.95	2	2	0	1800	1800	0
8/24/2024 11:39	16302	ALPA_T2	0	2	2	0	0.2	0.2	-0.29	-0.34	0	0	0	0	0	0
8/24/2024 11:40	46004	BERW_T2	1	1	0	0.3	0	-0.3	-0.43	-0.4	0	0	0	0	0	0
8/24/2024 11:40	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 11:41	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 11:41	16302	ALPA_T2	0	2	2	0	0.2	0.2	-0.58	-0.68	0	0	0	0	0	0
8/24/2024 11:42	16302	ALPA_T2	0	2	2	0	0.2	0.2	-0.29	-0.34	0	0	0	0	0	0
8/24/2024 11:42	60801	BUCK_T1	0	0	0	0	0	0	-0.67	-0.68	1	1	0	600	600	0
8/24/2024 11:42	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 11:43	10805	CHHI_T2	1	1	0	9	8.9	-0.1	-1.09	-1.05	0	0	0	0	0	0
8/24/2024 11:53	40602	PIGR_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/24/2024 11:53	40601	PIGR_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/24/2024 11:53	40603	PIGR_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/24/2024 11:57	11804	FRAN_T1	2	3	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/24/2024 11:57	67605	WARW_T1	1	1	0	0.8	0.9	0.1	-0.91	-0.91	0	0	0	0	0	0
8/24/2024 11:57	11805	FRAN_T1	0	1	1	0	0.4	0.4	-1.14	-1.1	1	1	0	1200	1200	0
8/24/2024 12:00	21204	ECAR_T2	1	1	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
8/24/2024 12:00	21206	ECAR_T2	1	1	0	7.3	7.7	0.4	0	0	0	0	0	0	0	0
8/24/2024 12:04	44201	POIN_T1	55	21	-34	0.13	0.14	0.01	-4.23	-4.22	4	4	0	4200	4200	0
8/24/2024 12:05	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 12:05	16203	POFA_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
8/24/2024 12:06	58101	NEKI_T1	1	2	1	0.4	0.65	0.25	0	0	0	0	0	0	0	0
8/24/2024 12:06	58102	NEKI_T1	0	1	1	0	0.9	0.9	-0.55	-1.68	1	1	0	1200	1200	0
8/24/2024 12:06	56504	ROCK_T2	0	0	0	0	0	0	0.16	0.01	0	0	0	0	0	0
8/24/2024 12:06	56501	ROCK_T2	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
8/24/2024 12:08	56501	ROCK_T2	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
8/24/2024 12:08	56504	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 12:08	14802	TREI_T2	0	2	2	0	0.2	0.2	0.85	0.79	0	0	0	0	0	0
8/24/2024 12:08	14801	TREI_T2	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
8/24/2024 12:11	11202	ELHE_T2	0	0	0	0	0	0	0.23	0.24	1	1	0	1200	1200	0
8/24/2024 12:12	45902	AUBU_T1	3	3	0	1	1.3	0.3	-0.38	-0.38	0	0	0	0	0	0
8/24/2024 12:14	61502	EPET_T1	0	1	1	0	0.2	0.2	-2.68	-2.7	0	0	0	0	0	0
8/24/2024 12:14	22903	HARW_T1	2	8	6	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/24/2024 12:14	22901	HARW_T1	0	0	0	0	0	0	-0.53	-0.4	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/24/2024 12:15	61505	EPET_T1	0	0	0	0	0	0	0.64	0.68	0	0	0	0	0	0
8/24/2024 12:15	61502	EPET_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/24/2024 12:18	12605	MACA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/24/2024 12:18	12604	MACA_T1	3	4	1	0.43	0.43	0	0.55	0.59	0	0	0	0	0	0
8/24/2024 12:18	12601	MACA_T1	2	2	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
8/24/2024 12:18	46101	MACI_T2	0	0	0	0	0	0	-0.44	-0.47	1	1	0	1200	1200	0
8/24/2024 12:22	67503	WEWI_T2	1	1	0	5	5.4	0.4	-0.26	-0.25	0	0	0	0	0	0
8/24/2024 12:23	13903	SEID_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/24/2024 12:24	67503	WEWI_T2	1	1	0	5	5.4	0.4	-0.26	-0.25	0	0	0	0	0	0
8/24/2024 12:26	10805	CHHI_T2	1	1	0	8.2	7.9	-0.3	-1.3	-1.31	1	1	0	600	600	0
8/24/2024 12:27	10805	CHHI_T2	1	1	0	8.2	7.9	-0.3	-1.3	-1.31	1	1	0	600	600	0
8/24/2024 12:30	14203	EALL_T1	0	0	0	0	0	0	-0.01	0.01	1	1	0	1200	1200	0
8/24/2024 12:32	56501	ROCK_T2	2	1	-1	0.65	1.1	0.45	0	0	0	0	0	0	0	0
8/24/2024 12:32	56504	ROCK_T2	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0
8/24/2024 12:33	12701	MACU_T1	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
8/24/2024 12:33	52501	PROG_T1	0	1	1	0	0.4	0.4	-0.11	-1.37	1	1	0	300	300	0
8/24/2024 12:35	13002	NBET_T2	0	0	0	0	0	0	-1.22	-1.06	2	2	0	2400	2400	0
8/24/2024 12:35	12701	MACU_T1	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
8/24/2024 12:36	43101	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/24/2024 12:36	43105	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/24/2024 12:36	43103	SMIL_T2	2	5	3	0.55	0.48	-0.07	0	0	0	0	0	0	0	0
8/24/2024 12:36	15201	SFAR_T1	0	0	0	0	0	0	0.31	0.25	2	2	0	1800	1800	0
8/24/2024 12:36	43108	SMIL_T2	1	2	1	0.4	0.4	0	-0.64	-0.69	1	1	0	1200	1200	0
8/24/2024 12:38	42701	AUGU_T1	1	0	-1	1.7	0	-1.7	0	0	2	2	0	1800	1800	0
8/24/2024 12:38	43103	SMIL_T2	2	5	3	0.55	0.48	-0.07	0	0	0	0	0	0	0	0
8/24/2024 12:38	51204	MTON_T2	0	0	0	0	0	0	-0.25	-0.24	1	1	0	600	600	0
8/24/2024 12:38	51202	MTON_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/24/2024 12:38	43108	SMIL_T2	1	2	1	0.4	0.4	0	-0.64	-0.69	1	1	0	1200	1200	0
8/24/2024 12:38	43101	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/24/2024 12:38	43105	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/24/2024 12:39	13704	SCHN_T2	0	0	0	0	0	0	0.2	0.06	0	0	0	0	0	0
8/24/2024 12:40	42701	AUGU_T1	1	0	-1	1.7	0	-1.7	0	0	2	2	0	1800	1800	0
8/24/2024 12:40	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 12:40	29402	BELT_T1	12	7	-5	1.09	2.06	0.97	0	0	0	0	0	0	0	0
8/24/2024 12:41	67605	WARW_T1	1	2	1	0.8	0.45	-0.35	-1.08	-1.04	0	0	0	0	0	0
8/24/2024 12:42	20401	ASHF_T2	0	1	1	0	0.3	0.3	0.08	0.15	0	0	0	0	0	0
8/24/2024 12:42	67605	WARW_T1	1	2	1	0.8	0.45	-0.35	-1.08	-1.04	0	0	0	0	0	0
8/24/2024 12:42	20402	ASHF_T2	1	0	-1	9.1	0	-9.1	0	0	0	0	0	0	0	0
8/24/2024 12:43	22601	KIMB_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
8/24/2024 12:43	22602	KIMB_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
8/24/2024 12:44	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/24/2024 12:44	52404	GRPA_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
8/24/2024 12:44	52403	GRPA_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
8/24/2024 12:44	23202	HIRU_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
8/24/2024 12:45	12302	LANA_T2	0	0	0	0	0	0	-1.14	-1.19	2	2	0	1500	1500	0
8/24/2024 12:46	52403	GRPA_T2	1	1	0	0.2	0.8	0.6	-0.35	-0.37	0	0	0	0	0	0
8/24/2024 12:47	52004	LING_T2	2	2	0	3.55	4.1	0.55	0	0	0	0	0	0	0	0
8/24/2024 12:47	63602	LETO_T1	0	0	0	0	0	0	-0.55	-0.53	1	1	0	600	600	0
8/24/2024 12:47	52002	LING_T2	1	0	-1	0.1	0	-0.1	0.38	-0.39	0	1	1	0	900	900
8/24/2024 12:48	52004	LING_T2	2	2	0	3.55	4.1	0.55	0	0	0	0	0	0	0	0
8/24/2024 12:48	26704	HEML_T2	0	0	0	0	0	0	-0.67	-0.64	1	1	0	1200	1200	0
8/24/2024 12:48	52002	LING_T2	1	0	-1	0.1	0	-0.1	0.38	-0.39	0	1	1	0	900	900
8/24/2024 12:49	13302	ORVI_T2	1	2	1	0.5	1.15	0.65	2.11	0.77	0	0	0	0	0	0
8/24/2024 12:49	63602	LETO_T1	0	0	0	0	0	0	-0.55	-0.53	1	1	0	600	600	0
8/24/2024 12:49	52004	LING_T2	2	2	0	3.55	4.1	0.55	0	0	0	0	0	0	0	0
8/24/2024 12:49	52002	LING_T2	1	0	-1	0.1	0	-0.1	0.38	-0.39	0	1	1	0	900	900
8/24/2024 12:50	21701	SUBU_T1	1	1	0	7	7.1	0.1	0	0	0	0	0	0	0	0
8/24/2024 12:50	21705	SUBU_T1	1	1	0	6.4	6.5	0.1	-0.03	-0.04	1	1	0	1200	1200	0
8/24/2024 12:50	52002	LING_T2	1	0	-1	0.1	0	-0.1	0.38	-0.39	0	1	1	0	900	900
8/24/2024 12:50	52004	LING_T2	2	2	0	3.55	4.1	0.55	0	0	0	0	0	0	0	0
8/24/2024 12:51	57401	SPAN_T1	0	0	0	0	0	0	-0.46	-0.48	1	1	0	600	600	0
8/24/2024 12:51	13302	ORVI_T2	1	2	1	0.5	1.15	0.65	0.77	0.8	0	0	0	0	0	0
8/24/2024 12:51	16203	POFA_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
8/24/2024 12:51	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 12:53	55101	WERT_T1	0	0	0	0	0	0	-6.68	-6.65	12	12	0	9900	9900	0
8/24/2024 12:53	57401	SPAN_T1	0	0	0	0	0	0	-0.48	-0.97	1	1	0	600	600	0
8/24/2024 12:55	55101	WERT_T1	0	0	0	0	0	0	-2.23	-2.22	4	4	0	3300	3300	0
8/24/2024 12:56	46206	DANV_T2	7	11	4	0.69	0.7	0.01	0.75	0.76	2	2	0	2100	2100	0
8/24/2024 12:56	46203	DANV_T2	1	1	0	6.7	7	0.3	0	0	0	0	0	0	0	0
8/24/2024 12:56	67605	WARW_T1	2	1	-1	0.45	0.8	0.35	-1.04	-1.02	0	0	0	0	0	0
8/24/2024 12:56	55101	WERT_T1	0	0	0	0	0	0	-2.23	-2.22	4	4	0	3300	3300	0
8/24/2024 12:57	61501	EPET_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
8/24/2024 12:57	61506	EPET_T2	0	0	0	0	0	0	-0.58	-0.62	1	1	0	900	900	0
8/24/2024 12:57	54505	ENOL_T2	0	0	0	0	0	0	-0.95	-0.92	1	1	0	600	600	0
8/24/2024 12:58	11102	EGYP_T1	1	2	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/24/2024 12:58	46203	DANV_T2	1	1	0	6.7	7	0.3	0	0	0	0	0	0	0	0
8/24/2024 12:58	11104	EGYP_T1	5	7	2	1.5	0.62	-0.88	1.03	1.04	0	0	0	0	0	0
8/24/2024 12:58	11101	EGYP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/24/2024 12:58	46206	DANV_T2	7	11	4	0.69	0.7	0.01	1.5	1.51	4	4	0	4200	4200	0
8/24/2024 12:59	11102	EGYP_T1	1	2	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/24/2024 12:59	11101	EGYP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/24/2024 12:59	11104	EGYP_T1	5	7	2	1.5	0.62	-0.88	1.03	1.04	0	0	0	0	0	0
8/24/2024 13:00	11101	EGYP_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/24/2024 13:00	11102	EGYP_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/24/2024 13:00	11104	EGYP_T1	6	7	1	0.62	0.94	0.32	1.03	1.04	0	0	0	0	0	0
8/24/2024 13:04	44202	POIN_T2	2	1	-1	2.1	3.8	1.7	0	0	0	0	0	0	0	0
8/24/2024 13:04	44203	POIN_T2	1	0	-1	0.2	0	-0.2	0.64	0.54	1	1	0	900	900	0
8/24/2024 13:05	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0.36	0.04	3	3	0	1700	2100	400
8/24/2024 13:06	43101	SMIL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/24/2024 13:06	43108	SMIL_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/24/2024 13:06	55408	SHER_T2	2	2	0	0.65	0.6	-0.05	-0.94	-0.94	1	1	0	1200	1200	0
8/24/2024 13:06	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0.04	0.03	3	3	0	1700	2100	400
8/24/2024 13:06	66703	STRA_T1	0	0	0	0	0	0	-0.28	-0.26	0	0	0	0	0	0
8/24/2024 13:06	43103	SMIL_T2	4	5	1	0.33	0.5	0.17	-3.69	-3.81	0	0	0	0	0	0
8/24/2024 13:07	57401	SPAN_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	600	600	0
8/24/2024 13:07	60502	NMAN_T2	21	19	-2	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
8/24/2024 13:07	60504	NMAN_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
8/24/2024 13:08	66703	STRA_T1	0	0	0	0	0	0	-0.28	-0.26	0	0	0	0	0	0
8/24/2024 13:08	43101	SMIL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/24/2024 13:08	43103	SMIL_T2	4	5	1	0.33	0.5	0.17	-3.69	-3.81	0	0	0	0	0	0
8/24/2024 13:08	43108	SMIL_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/24/2024 13:09	66703	STRA_T1	0	0	0	0	0	0	-0.28	-0.26	0	0	0	0	0	0
8/24/2024 13:10	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 13:10	14702	TREX_T2	0	0	0	0	0	0	0.86	0.83	0	0	0	0	0	0
8/24/2024 13:11	57401	SPAN_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	600	600	0
8/24/2024 13:11	56501	ROCK_T2	1	2	1	1.1	0.35	-0.75	-0.93	-0.86	0	0	0	0	0	0
8/24/2024 13:13	43108	SMIL_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/24/2024 13:13	43103	SMIL_T2	4	5	1	0.33	0.5	0.17	-1.85	-1.91	0	0	0	0	0	0
8/24/2024 13:13	10805	CHHI_T2	1	1	0	8	8.1	0.1	-1.2	-1.24	1	1	0	600	600	0
8/24/2024 13:13	43101	SMIL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/24/2024 13:14	54505	ENOL_T2	0	0	0	0	0	0	-0.92	-0.94	1	1	0	600	600	0
8/24/2024 13:17	40901	JESH_T1	1	1	0	1.7	1.7	0	-0.18	-0.12	1	1	0	600	600	0
8/24/2024 13:20	44202	POIN_T2	1	1	0	3.9	3.8	-0.1	0	0	0	0	0	0	0	0
8/24/2024 13:20	65205	PRIN_T1	1	1	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
8/24/2024 13:20	44203	POIN_T2	0	0	0	0	0	0	0.54	0.62	1	1	0	900	900	0
8/24/2024 13:21	44202	POIN_T2	1	1	0	3.9	3.8	-0.1	0	0	0	0	0	0	0	0
8/24/2024 13:21	44203	POIN_T2	0	0	0	0	0	0	0.62	0.61	1	1	0	900	900	0
8/24/2024 13:23	46001	BERW_T1	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
8/24/2024 13:25	56504	ROCK_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
8/24/2024 13:25	67503	WEWI_T2	1	1	0	5.1	4.8	-0.3	-0.15	-0.12	0	0	0	0	0	0
8/24/2024 13:25	56501	ROCK_T2	2	1	-1	0.35	0.7	0.35	0	0	0	0	0	0	0	0
8/24/2024 13:26	47401	PENS_T1	2	2	0	0.2	0.55	0.35	1.44	1.5	0	0	0	0	0	0
8/24/2024 13:26	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/24/2024 13:26	47403	PENS_T1	1	2	1	1.8	1.2	-0.6	0	0	0	0	0	0	0	0
8/24/2024 13:26	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/24/2024 13:29	25402	LAHA_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
8/24/2024 13:30	40101	HUNT_T2	9	11	2	0.53	0.42	-0.11	-0.41	-0.49	0	0	0	0	0	0
8/24/2024 13:31	61501	EPET_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
8/24/2024 13:31	61504	EPET_T2	0	0	0	0	0	0	-0.01	0.06	0	0	0	0	0	0
8/24/2024 13:35	66703	STRA_T1	0	0	0	0	0	0	-0.26	-0.21	0	0	0	0	0	0
8/24/2024 13:37	64101	REFR_T1	3	3	0	0.1	0	-0.1	0.33	0.32	0	0	0	0	0	0
8/24/2024 13:37	66703	STRA_T1	0	0	0	0	0	0	-0.21	-0.13	0	0	0	0	0	0
8/24/2024 13:38	64101	REFR_T1	3	3	0	0.1	0	-0.1	0.65	0.64	0	0	0	0	0	0
8/24/2024 13:39	64101	REFR_T1	3	3	0	0.1	0	-0.1	0.33	0.32	0	0	0	0	0	0
8/24/2024 13:41	64101	REFR_T1	3	3	0	0.1	0	-0.1	0.65	0.64	0	0	0	0	0	0
8/24/2024 13:42	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/24/2024 13:43	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 13:43	29402	BELT_T1	286	254	-32	1.08	1.07	-0.01	0	0	0	0	0	0	0	0
8/24/2024 13:46	10805	CHHI_T2	1	1	0	8.4	8.6	0.2	-1.21	-1.19	1	1	0	600	600	0
8/24/2024 13:49	58401	MORO_T1	0	0	0	0	0	0	-1.33	-1.3	2	2	0	1200	1200	0
8/24/2024 13:51	58401	MORO_T1	0	0	0	0	0	0	-1.33	-1.3	2	2	0	1200	1200	0
8/24/2024 13:52	12601	MACA_T1	1	2	1	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
8/24/2024 13:52	59202	THOM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/24/2024 13:52	12604	MACA_T1	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
8/24/2024 13:58	42701	AUGU_T1	0	1	1	0	0	0	0	0	2	2	0	1800	1800	0
8/24/2024 14:00	40101	HUNT_T2	11	16	5	0.37	0.58	0.21	0	0	0	0	0	0	0	0
8/24/2024 14:00	45802	HEGI_T2	39	18	-21	0.63	0.46	-0.17	0.5	0.64	0	0	0	0	0	0
8/24/2024 14:02	45702	LIND_T2	4	4	0	0.68	0.7	0.02	-1.52	-1.48	0	0	0	0	0	0
8/24/2024 14:03	65401	MARI_T1	5	9	4	0.46	0.43	-0.03	0	0	0	0	0	0	0	0
8/24/2024 14:03	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 14:04	45702	LIND_T2	4	4	0	0.68	0.7	0.02	-1.52	-1.48	0	0	0	0	0	0
8/24/2024 14:04	26401	INOR_T1	2	4	2	3.35	1.48	-1.87	0	0	0	0	0	0	0	0
8/24/2024 14:04	26402	INOR_T1	0	1	1	0	0	0	-1.53	-1.61	1	1	0	600	600	0
8/24/2024 14:05	57303	MOAL_T2	1	1	0	8.7	8.8	0.1	0	0	0	0	0	0	0	0
8/24/2024 14:05	57304	MOAL_T2	0	0	0	0	0	0	-0.4	-0.35	0	0	0	0	0	0
8/24/2024 14:06	66703	STRA_T1	0	0	0	0	0	0	-0.2	-0.14	0	0	0	0	0	0
8/24/2024 14:10	43103	SMIL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/24/2024 14:10	43108	SMIL_T2	1	1	0	0.1	0	-0.1	-1.05	-0.99	1	1	0	1200	1200	0
8/24/2024 14:10	64101	REFR_T1	3	6	3	0.87	0.27	-0.6	0.34	0.36	0	0	0	0	0	0
8/24/2024 14:11	43103	SMIL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/24/2024 14:11	43108	SMIL_T2	1	1	0	0.1	0	-0.1	-1.05	-0.99	1	1	0	1200	1200	0
8/24/2024 14:13	44801	EDAN_T2	5	7	2	0.96	0.62	-0.34	-1.4	-1.41	0	0	0	0	0	0
8/24/2024 14:15	44801	EDAN_T2	6	6	0	0.67	0.58	-0.09	-1.4	-1.41	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/24/2024 14:16	44801	EDAN_T2	6	6	0	0.67	0.58	-0.09	-1.4	-1.41	0	0	0	0	0	0
8/24/2024 14:18	45702	LIND_T2	4	4	0	0.68	0.65	-0.03	-1.48	-1.46	0	0	0	0	0	0
8/24/2024 14:20	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/24/2024 14:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 14:26	45501	DERR_T2	0	0	0	0	0	0	-0.32	-0.29	2	2	0	1800	1800	0
8/24/2024 14:28	45501	DERR_T2	0	0	0	0	0	0	-0.32	-0.29	2	2	0	1800	1800	0
8/24/2024 14:32	47001	HUGH_T2	3	3	0	6.83	7.97	1.14	-0.81	-2.66	0	2	2	0	1800	1800
8/24/2024 14:32	47002	HUGH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/24/2024 14:33	47001	HUGH_T2	3	3	0	6.83	7.97	1.14	-0.4	-1.33	0	1	1	0	900	900
8/24/2024 14:33	47002	HUGH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/24/2024 14:37	43201	MVIL_T2	2	4	2	0.35	0.6	0.25	-0.24	-0.24	0	0	0	0	0	0
8/24/2024 14:38	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 14:41	52202	DEVO_T2	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
8/24/2024 14:41	52204	DEVO_T2	6	6	0	0.85	1.15	0.3	0	0	0	0	0	0	0	0
8/24/2024 14:42	52202	DEVO_T2	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
8/24/2024 14:42	52204	DEVO_T2	6	6	0	0.85	1.15	0.3	0	0	0	0	0	0	0	0
8/24/2024 14:43	52202	DEVO_T2	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
8/24/2024 14:43	52204	DEVO_T2	6	6	0	0.85	1.15	0.3	0	0	0	0	0	0	0	0
8/24/2024 14:45	52202	DEVO_T2	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
8/24/2024 14:45	52204	DEVO_T2	6	6	0	1.23	1.17	-0.06	0	0	0	0	0	0	0	0
8/24/2024 14:47	20601	GRWO_T2	8	15	7	0.6	0.6	0	0.83	0.85	0	0	0	0	0	0
8/24/2024 14:48	63401	HONY_T1	0	0	0	0	0	0	0.3	0.23	1	1	0	600	600	0
8/24/2024 14:53	66703	STRA_T1	0	0	0	0	0	0	-0.7	-0.78	0	0	0	0	0	0
8/24/2024 14:53	66701	STRA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 14:54	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 14:56	44302	BEAV_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
8/24/2024 14:56	44301	BEAV_T2	3	4	1	0.5	0.65	0.15	0	0	0	0	0	0	0	0
8/24/2024 14:58	43101	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/24/2024 14:58	43103	SMIL_T2	1	1	0	0.1	0.2	0.1	-1.79	-1.75	0	0	0	0	0	0
8/24/2024 15:02	20601	GRWO_T2	12	9	-3	0.7	0.52	-0.18	0.85	0.85	0	0	0	0	0	0
8/24/2024 15:03	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 15:03	63501	HEID_TBK1-2	56	56	0	2.8	2.87	0.07	0.18	0.19	1	1	0	900	900	0
8/24/2024 15:03	29402	BELT_T1	200	181	-19	1.06	1.14	0.08	0	0	0	0	0	0	0	0
8/24/2024 15:03	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 15:08	42701	AUGU_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
8/24/2024 15:10	66703	STRA_T1	0	0	0	0	0	0	-0.78	-0.69	0	0	0	0	0	0
8/24/2024 15:10	66701	STRA_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/24/2024 15:11	51604	DUKE_T2	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
8/24/2024 15:11	66703	STRA_T1	0	0	0	0	0	0	-0.78	-0.69	0	0	0	0	0	0
8/24/2024 15:11	66701	STRA_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/24/2024 15:13	42701	AUGU_T1	2	1	-1	0.35	0.2	-0.15	0	0	2	2	0	1800	1800	0
8/24/2024 15:15	53601	DALM_T2	0	3	3	0	0.6	0.6	0.09	0.09	0	0	0	0	0	0
8/24/2024 15:15	10805	CHHI_T2	1	7	6	8.8	8.9	0.1	-1.1	-1.02	1	1	0	600	600	0
8/24/2024 15:19	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/24/2024 15:19	58401	MORO_T1	0	3	3	0	0.8	0.8	-4.18	-4.15	6	6	0	4200	4200	0
8/24/2024 15:19	45802	HEGI_T2	47	48	1	1.39	2.23	0.84	0.11	0.05	0	0	0	0	0	0
8/24/2024 15:19	65503	MOJO_T2	0	1	1	0	0	0	-0.31	-0.29	1	1	0	900	900	0
8/24/2024 15:20	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 15:20	47802	MOCA_T2	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
8/24/2024 15:22	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 15:22	64101	REFR_T1	3	10	7	0.43	0.64	0.21	0.37	0.4	0	0	0	0	0	0
8/24/2024 15:23	55101	WERT_T1	0	0	0	0	0	0	-1.82	-1.94	4	4	0	3300	3300	0
8/24/2024 15:24	64101	REFR_T1	3	10	7	0.43	0.64	0.21	0.37	0.4	0	0	0	0	0	0
8/24/2024 15:26	55101	WERT_T1	0	0	0	0	0	0	-5.46	-5.81	12	12	0	9900	9900	0
8/24/2024 15:27	55101	WERT_T1	0	0	0	0	0	0	-3.64	-3.88	8	8	0	6600	6600	0
8/24/2024 15:28	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 15:29	10801	CHHI_T1	4	7	3	0.3	0.41	0.11	-1.32	-1.32	3	3	0	2100	2100	0
8/24/2024 15:29	25402	LAHA_T2	0	1	1	0	1	1	-0.23	-0.23	0	0	0	0	0	0
8/24/2024 15:31	11804	FRAN_T1	14	18	4	0.76	0.79	0.03	1.05	1.09	0	0	0	0	0	0
8/24/2024 15:31	47802	MOCA_T2	0	0	0	0	0	0	-0.73	-0.71	0	0	0	0	0	0
8/24/2024 15:34	64902	MILL_T2	0	0	0	0	0	0	-0.7	-0.67	1	1	0	900	900	0
8/24/2024 15:37	13705	SCHN_T1	2	2	0	0.45	0	-0.45	0	0	0	0	0	0	0	0
8/24/2024 15:37	13702	SCHN_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
8/24/2024 15:37	41902	REED_T1	1	1	0	1.2	1	-0.2	0.4	0.31	1	1	0	900	900	0
8/24/2024 15:38	65802	RTWN_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
8/24/2024 15:39	13705	SCHN_T1	2	2	0	0.45	0	-0.45	0	0	0	0	0	0	0	0
8/24/2024 15:39	13702	SCHN_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
8/24/2024 15:47	51401	LYKE_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
8/24/2024 15:50	64902	MILL_T2	0	0	0	0	0	0	-0.67	-0.67	1	1	0	900	900	0
8/24/2024 15:50	63203	MGTN_T1	0	0	0	0	0	0	-0.69	-0.66	2	2	0	1200	1200	0
8/24/2024 15:51	14401	SSLA_T1	3	3	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
8/24/2024 15:51	14404	SSLA_T1	17	12	-5	0.99	1.12	0.13	0	0	0	0	0	0	0	0
8/24/2024 15:51	14403	SSLA_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
8/24/2024 15:55	46001	BERW_T1	1	1	0	0.4	0	-0.4	-1.85	-1.82	0	0	0	0	0	0
8/24/2024 15:55	10801	CHHI_T1	7	9	2	0.44	0.23	-0.21	-1.29	-1.27	3	3	0	2100	2100	0
8/24/2024 15:56	44301	BEAV_T2	3	5	2	0.57	0.2	-0.37	0	0	0	0	0	0	0	0
8/24/2024 15:58	53903	HALI_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/24/2024 15:58	53902	HALI_T2	1	1	0	4	4.2	0.2	-0.59	-0.59	0	0	0	0	0	0
8/24/2024 15:59	53903	HALI_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/24/2024 15:59	53902	HALI_T2	1	1	0	4	4.2	0.2	-1.18	-1.18	0	0	0	0	0	0
8/24/2024 16:01	40902	JESH_T1	0	3	3	0	0	0	-1.59	-1.61	2	2	0	1200	1200	0
8/24/2024 16:01	40901	JESH_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
8/24/2024 16:02	52006	LING_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/24/2024 16:02	52004	LING_T2	2	2	0	4	3.9	-0.1	0.21	0.18	0	0	0	0	0	0
8/24/2024 16:02	53902	HALI_T2	1	1	0	4	4.2	0.2	-1.18	-1.18	0	0	0	0	0	0
8/24/2024 16:02	63401	HONY_T1	0	0	0	0	0	0	-0.01	0.05	1	1	0	600	600	0
8/24/2024 16:02	53903	HALI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/24/2024 16:02	52002	LING_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 16:03	51401	LYKE_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
8/24/2024 16:06	52006	LING_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/24/2024 16:06	52004	LING_T2	2	2	0	4	3.9	-0.1	0.21	0.18	0	0	0	0	0	0
8/24/2024 16:06	52002	LING_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 16:10	55101	WERT_T1	0	0	0	0	0	0	-1.89	-1.93	4	4	0	3300	3300	0
8/24/2024 16:13	46001	BERW_T1	0	0	0	0	0	0	-3.63	-3.6	0	0	0	0	0	0
8/24/2024 16:17	63304	GREE_T1	0	0	0	0	0	0	-6.74	-6.56	2	2	0	2400	2400	0
8/24/2024 16:21	66701	STRA_T1	2	3	1	0.85	0	-0.85	0.54	0.64	1	1	0	600	600	0
8/24/2024 16:22	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 16:22	29402	BELT_T1	149	163	14	1.26	1.41	0.15	0	0	0	0	0	0	0	0
8/24/2024 16:23	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 16:24	65601	QVIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/24/2024 16:24	65604	QVIL_T2	0	3	3	0	0	0	0.68	0.72	0	0	0	0	0	0
8/24/2024 16:24	66701	STRA_T1	2	3	1	0.85	0	-0.85	0.54	0.64	1	1	0	600	600	0
8/24/2024 16:24	43101	SMIL_T2	2	5	3	0.45	0.53	0.08	-0.7	-0.67	1	1	0	300	300	0
8/24/2024 16:28	12701	MACU_T1	4	7	3	0.4	0.5	0.1	0.37	0.38	0	0	0	0	0	0
8/24/2024 16:29	61703	ELIZ_T1	0	8	8	0	0.2	0.2	0	0	0	0	0	0	0	0
8/24/2024 16:29	61701	ELIZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 16:29	53902	HALI_T2	1	1	0	4.2	3.8	-0.4	-1.22	-1.18	0	0	0	0	0	0
8/24/2024 16:30	46203	DANV_T2	2	1	-1	3.05	6	2.95	-1.56	-1.62	0	0	0	0	0	0
8/24/2024 16:30	46206	DANV_T2	32	57	25	0.43	0.42	-0.01	0	0	0	0	0	0	0	0
8/24/2024 16:30	53902	HALI_T2	1	1	0	3.8	3.8	0	-1.22	-1.18	0	0	0	0	0	0
8/24/2024 16:30	46204	DANV_T2	18	23	5	0.32	0.16	-0.16	0	0	0	0	0	0	0	0
8/24/2024 16:33	53902	HALI_T2	1	1	0	3.8	3.8	0	-0.61	-0.59	0	0	0	0	0	0
8/24/2024 16:39	64101	REFR_T1	10	6	-4	0.66	0.43	-0.23	0.39	0.42	0	0	0	0	0	0
8/24/2024 16:39	42701	AUGU_T1	6	31	25	0.35	0.42	0.07	0	0	2	2	0	1800	1800	0
8/24/2024 16:42	64101	REFR_T1	10	6	-4	0.66	0.43	-0.23	0.39	0.42	0	0	0	0	0	0
8/24/2024 16:42	67602	WARW_T2	0	0	0	0	0	0	0.68	0.7	1	1	0	300	300	0
8/24/2024 16:43	61701	ELIZ_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 16:43	61703	ELIZ_T1	3	11	8	0.2	0.65	0.45	-2.36	-2.34	2	2	0	2100	2100	0
8/24/2024 16:43	12701	MACU_T1	4	6	2	0.65	0	-0.65	0.38	-0.8	0	1	1	0	1200	1200
8/24/2024 16:44	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
8/24/2024 16:44	53501	EVIL_T2	1	2	1	0.2	0.1	-0.1	-0.01	-0.01	1	1	0	600	600	0
8/24/2024 16:45	53501	EVIL_T2	0	2	2	0	0.4	0.4	-0.01	-0.01	1	1	0	600	600	0
8/24/2024 16:45	44801	EDAN_T2	1	1	0	1.6	1.4	-0.2	-1.38	-1.36	0	0	0	0	0	0
8/24/2024 16:46	61703	ELIZ_T1	8	12	4	0.58	0.68	0.1	0	0	0	0	0	0	0	0
8/24/2024 16:46	53501	EVIL_T2	0	2	2	0	0.4	0.4	-0.01	-0.01	1	1	0	600	600	0
8/24/2024 16:46	61701	ELIZ_T1	1	4	3	0.1	0.27	0.17	1.76	1.74	0	0	0	0	0	0
8/24/2024 16:47	53501	EVIL_T2	0	2	2	0	0.4	0.4	-0.01	-0.01	1	1	0	600	600	0
8/24/2024 16:48	53501	EVIL_T2	0	2	2	0	0.4	0.4	-0.01	-0.01	1	1	0	600	600	0
8/24/2024 16:52	67103	SPRI_T1	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
8/24/2024 16:53	65902	SAKR_T2	0	0	0	0	0	0	-0.28	-0.31	1	1	0	300	300	0
8/24/2024 16:53	65901	SAKR_T2	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
8/24/2024 16:55	64101	REFR_T1	3	6	3	0.43	1.07	0.64	0.42	0.4	0	0	0	0	0	0
8/24/2024 16:59	53601	DALM_T2	1	4	3	0.2	0.3	0.1	0.17	0.1	0	0	0	0	0	0
8/24/2024 17:05	63401	HONY_T1	0	0	0	0	0	0	-0.01	-0.05	1	1	0	600	600	0
8/24/2024 17:06	14401	SSLA_T1	5	2	-3	0.7	0.7	0	0	0	0	0	0	0	0	0
8/24/2024 17:06	14403	SSLA_T1	0	0	0	0	0	0	-0.47	-0.44	1	1	0	600	600	0
8/24/2024 17:06	14404	SSLA_T1	29	32	3	1.36	1.3	-0.06	0	0	0	0	0	0	0	0
8/24/2024 17:06	14402	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 17:07	14403	SSLA_T1	0	0	0	0	0	0	-0.47	-0.44	1	1	0	600	600	0
8/24/2024 17:07	14401	SSLA_T1	5	2	-3	0.7	0.7	0	0	0	0	0	0	0	0	0
8/24/2024 17:07	14402	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 17:07	14404	SSLA_T1	29	32	3	1.36	1.3	-0.06	0	0	0	0	0	0	0	0
8/24/2024 17:12	61303	EARL_T1	0	1	1	0	0	0	0.16	0.18	0	0	0	0	0	0
8/24/2024 17:20	12606	MACA_T1	0	0	0	0	0	0	0.29	0.31	1	1	0	900	900	0
8/24/2024 17:23	59101	WALK_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
8/24/2024 17:25	59101	WALK_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
8/24/2024 17:27	59101	WALK_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
8/24/2024 17:29	11104	EGYP_T1	6	9	3	1.72	2.34	0.62	0	0	0	0	0	0	0	0
8/24/2024 17:29	11103	EGYP_T1	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
8/24/2024 17:29	11102	EGYP_T1	1	3	2	1.7	0.97	-0.73	0	0	0	0	0	0	0	0
8/24/2024 17:30	11103	EGYP_T1	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
8/24/2024 17:30	11102	EGYP_T1	3	3	0	1.17	0.97	-0.2	0	0	0	0	0	0	0	0
8/24/2024 17:30	11104	EGYP_T1	5	9	4	2.34	1.74	-0.6	0	0	0	0	0	0	0	0
8/24/2024 17:31	64201	KINZ_T1	0	0	0	0	0	0	-0.36	-0.34	3	3	0	1500	1500	0
8/24/2024 17:31	64204	KINZ_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
8/24/2024 17:31	64203	KINZ_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
8/24/2024 17:31	64202	KINZ_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/24/2024 17:32	53601	DALM_T2	3	3	0	0.37	0.33	-0.04	0.14	0.12	0	0	0	0	0	0
8/24/2024 17:35	13302	ORVI_T2	0	0	0	0	0	0	1.06	0.96	0	0	0	0	0	0
8/24/2024 17:36	15703	TANN_T2	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
8/24/2024 17:36	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
8/24/2024 17:38	13302	ORVI_T2	0	0	0	0	0	0	0.96	0.95	0	0	0	0	0	0
8/24/2024 17:40	64101	REFR_T1	8	4	-4	0.65	0	-0.65	0.41	-0.2	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/24/2024 17:41	45501	DERR_T2	0	1	1	0	0	0	-0.43	-0.42	2	2	0	1800	1800	0
8/24/2024 17:42	45501	DERR_T2	0	1	1	0	0	0	-0.43	-0.42	2	2	0	1800	1800	0
8/24/2024 17:43	45501	DERR_T2	0	1	1	0	0	0	-0.43	-0.42	2	2	0	1800	1800	0
8/24/2024 17:43	62607	ENGL_T1	0	0	0	0	0	0	-0.45	-0.48	1	1	0	300	300	0
8/24/2024 17:49	65201	PRIN_T4	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
8/24/2024 17:49	27604	PIRI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 17:50	16503	STRO_T2	0	0	0	0	0	0	-0.16	-0.22	1	1	0	1200	1200	0
8/24/2024 17:50	65802	RTWN_T2	0	0	0	0	0	0	0.34	0.4	0	0	0	0	0	0
8/24/2024 17:51	67002	STHI_T2	0	0	0	0	0	0	-0.81	-0.74	1	1	0	600	600	0
8/24/2024 17:51	27604	PIRI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 17:52	65802	RTWN_T2	0	0	0	0	0	0	0.4	0.36	0	0	0	0	0	0
8/24/2024 17:53	42201	SHEN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 17:53	65802	RTWN_T2	0	0	0	0	0	0	0.4	0.36	0	0	0	0	0	0
8/24/2024 17:54	67002	STHI_T2	0	0	0	0	0	0	-0.81	-0.74	1	1	0	600	600	0
8/24/2024 17:56	42201	SHEN_T2	0	0	0	0	0	0	0.89	0.9	0	0	0	0	0	0
8/24/2024 17:57	46203	DANV_T2	1	1	0	5.8	5.8	0	-1.59	-1.6	0	0	0	0	0	0
8/24/2024 17:57	46204	DANV_T2	5	2	-3	0.26	0	-0.26	0	0	0	0	0	0	0	0
8/24/2024 17:57	46206	DANV_T2	34	20	-14	0.42	0.51	0.09	0	0	0	0	0	0	0	0
8/24/2024 17:57	61703	ELIZ_T1	19	18	-1	0.41	0.18	-0.23	0	0	0	0	0	0	0	0
8/24/2024 17:57	61701	ELIZ_T1	6	5	-1	0.33	0	-0.33	1.75	1.74	0	0	0	0	0	0
8/24/2024 17:58	20401	ASHF_T2	4	1	-3	0.63	0.4	-0.23	0	0	0	0	0	0	0	0
8/24/2024 17:58	20402	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 17:58	20403	ASHF_T2	0	0	0	0	0	0	0.8	0.82	0	0	0	0	0	0
8/24/2024 17:59	46204	DANV_T2	5	2	-3	0.26	0	-0.26	0	0	0	0	0	0	0	0
8/24/2024 17:59	46206	DANV_T2	34	20	-14	0.42	0.51	0.09	0	0	0	0	0	0	0	0
8/24/2024 17:59	46203	DANV_T2	1	1	0	5.8	5.8	0	-1.59	-1.6	0	0	0	0	0	0
8/24/2024 18:00	61703	ELIZ_T1	16	7	-9	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
8/24/2024 18:00	61701	ELIZ_T1	4	1	-3	0.35	0	-0.35	1.75	1.74	0	0	0	0	0	0
8/24/2024 18:05	46901	MNTG_T2	0	0	0	0	0	0	-0.69	-0.7	1	1	0	1200	1200	0
8/24/2024 18:07	46901	MNTG_T2	0	0	0	0	0	0	-0.7	-0.68	1	1	0	1200	1200	0
8/24/2024 18:12	20402	ASHF_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/24/2024 18:12	20401	ASHF_T2	1	1	0	0.4	0	-0.4	0.27	0.21	0	0	0	0	0	0
8/24/2024 18:16	64503	LAVI_T1	0	0	0	0	0	0	-1.62	-1.6	1	1	0	1200	1200	0
8/24/2024 18:17	20802	LOPO_T1	0	0	0	0	0	0	-1.05	-1.06	1	1	0	600	600	0
8/24/2024 18:17	64503	LAVI_T1	0	0	0	0	0	0	-1.62	-1.6	1	1	0	1200	1200	0
8/24/2024 18:19	64503	LAVI_T1	0	0	0	0	0	0	-3.24	-3.2	2	2	0	2400	2400	0
8/24/2024 18:20	46102	MACI_T1	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
8/24/2024 18:23	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 18:23	43301	WATS_T2	0	0	0	0	0	0	-0.17	-0.16	1	1	0	900	900	0
8/24/2024 18:30	61702	ELIZ_T2	0	1	1	0	0	0	-1.36	-1.4	2	2	0	1500	1500	0
8/24/2024 18:30	61704	ELIZ_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 18:32	46402	FLEM_T2	0	0	0	0	0	0	-0.69	-0.66	2	2	0	1800	1800	0
8/24/2024 18:33	40101	HUNT_T2	6	7	1	0.38	0.5	0.12	0	0	0	0	0	0	0	0
8/24/2024 18:34	57401	SPAN_T1	3	5	2	0.17	0	-0.17	-0.42	-0.48	1	1	0	600	600	0
8/24/2024 18:34	47802	MOCA_T2	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
8/24/2024 18:36	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 18:40	67503	WEWI_T2	1	1	0	4	4.3	0.3	-0.69	-0.68	1	1	0	600	600	0
8/24/2024 18:44	46402	FLEM_T2	0	0	0	0	0	0	-0.66	-0.65	2	2	0	1800	1800	0
8/24/2024 18:44	12006	HATF_T1	0	0	0	0	0	0	0.21	0.19	1	1	0	1200	1200	0
8/24/2024 18:44	12005	HATF_T1	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
8/24/2024 18:46	24702	FLND_T2	0	0	0	0	0	0	0.25	0.31	1	1	0	1200	1200	0
8/24/2024 18:46	40502	CRES_T2	7	10	3	0.19	0.17	-0.02	-0.68	-0.73	0	0	0	0	0	0
8/24/2024 18:46	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 18:55	10705	CATA_T2	0	0	0	0	0	0	-1.59	-1.56	1	1	0	900	900	0
8/24/2024 18:57	67605	WARW_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
8/24/2024 18:57	67604	WARW_T1	0	0	0	0	0	0	0.25	0.35	0	0	0	0	0	0
8/24/2024 18:59	51602	DUKE_T2	0	0	0	0	0	0	-0.95	-1.01	1	1	0	1200	1200	0
8/24/2024 19:01	51602	DUKE_T2	0	0	0	0	0	0	-0.95	-1.01	1	1	0	1200	1200	0
8/24/2024 19:06	15204	SFAR_T2	1	2	1	0.8	0.8	0	0.4	0.39	0	0	0	0	0	0
8/24/2024 19:07	64904	MILL_T1	0	0	0	0	0	0	-0.95	-0.97	0	0	0	0	0	0
8/24/2024 19:08	15204	SFAR_T2	1	2	1	0.8	0.8	0	0.4	0.39	0	0	0	0	0	0
8/24/2024 19:19	64301	LINC_T1	0	0	0	0	0	0	0.09	0.06	1	1	0	600	600	0
8/24/2024 19:20	64301	LINC_T1	0	0	0	0	0	0	0.09	0.06	1	1	0	600	600	0
8/24/2024 19:27	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 19:28	60101	COCA_T1	0	0	0	0	0	0	0.76	0.84	0	0	0	0	0	0
8/24/2024 19:32	60101	COCA_T1	0	0	0	0	0	0	0.76	0.84	0	0	0	0	0	0
8/24/2024 19:39	58401	MORO_T1	7	7	0	0.99	0.8	-0.19	-1.47	-1.48	3	3	0	2100	2100	0
8/24/2024 19:39	58402	MORO_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/24/2024 20:05	13503	MCMI_T2	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
8/24/2024 20:06	58401	MORO_T1	6	5	-1	0.7	0.98	0.28	-1.48	-1.54	3	3	0	2100	2100	0
8/24/2024 20:08	13503	MCMI_T2	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
8/24/2024 20:34	13503	MCMI_T2	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
8/24/2024 20:41	60101	COCA_T1	0	0	0	0	0	0	0.8	0.76	0	0	0	0	0	0
8/24/2024 20:42	61701	ELIZ_T1	1	1	0	1.1	1.4	0.3	1.59	1.57	0	0	0	0	0	0
8/24/2024 20:43	60101	COCA_T1	0	0	0	0	0	0	0.8	0.76	0	0	0	0	0	0
8/24/2024 20:45	60101	COCA_T1	0	0	0	0	0	0	1.6	1.52	0	0	0	0	0	0
8/24/2024 20:46	60101	COCA_T1	0	0	0	0	0	0	0.8	0.76	0	0	0	0	0	0
8/24/2024 20:46	42302	MOWR_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
8/24/2024 20:49	60101	COCA_T1	0	0	0	0	0	0	0.8	0.76	0	0	0	0	0	0
8/24/2024 20:50	60101	COCA_T1	0	0	0	0	0	0	0.8	0.76	0	0	0	0	0	0
8/24/2024 21:06	46801	HEPB_T2	21	2	-19	0.31	0.25	-0.06	0	0	0	0	0	0	0	0
8/24/2024 21:06	46803	HEPB_T2	4	0	-4	0.13	0	-0.13	0.67	0.65	0	0	0	0	0	0
8/24/2024 21:10	48302	ORWI_T2	2	2	0	0.55	0.65	0.1	0.11	0.05	0	0	0	0	0	0
8/24/2024 21:14	62101	ELAN_T1	1	1	0	7	5.6	-1.4	0	0	0	0	0	0	0	0
8/24/2024 21:14	62104	ELAN_T1	0	0	0	0	0	0	-0.3	-0.33	2	2	0	1500	1500	0
8/24/2024 21:29	58401	MORO_T1	5	5	0	0.84	0.88	0.04	-1.45	-1.47	3	3	0	2100	2100	0
8/24/2024 21:33	56501	ROCK_T2	2	2	0	0.5	0.7	0.2	-0.99	-0.99	0	0	0	0	0	0
8/24/2024 21:40	58401	MORO_T1	106	5	-101	1.12	0.88	-0.24	-1.47	-1.44	3	2	-1	2100	1200	-900
8/24/2024 21:40	61303	EARL_T1	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
8/24/2024 21:41	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:41	15203	SFAR_T2	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
8/24/2024 21:42	12606	MACA_T1	0	0	0	0	0	0	0.14	0.12	1	1	0	900	900	0
8/24/2024 21:42	10602	BLGL_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
8/24/2024 21:43	63602	LETO_T1	0	0	0	0	0	0	-0.63	-0.66	1	1	0	600	600	0
8/24/2024 21:44	29402	BELT_T1	64	35	-29	0.5	0.31	-0.19	0	0	0	0	0	0	0	0
8/24/2024 21:44	67603	WARW_T1	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
8/24/2024 21:44	65001	NEFF_T2	0	0	0	0	0	0	-0.83	-0.98	1	1	0	1200	1200	0
8/24/2024 21:44	26704	HEML_T2	9	9	0	0.11	0.1	-0.01	-0.75	-0.75	1	1	0	1200	1200	0
8/24/2024 21:44	63402	HONY_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/24/2024 21:44	63403	HONY_T2	0	0	0	0	0	0	-0.97	-0.79	0	0	0	0	0	0
8/24/2024 21:44	53903	HALI_T2	2	2	0	1.05	1.2	0.15	0	0	0	0	0	0	0	0
8/24/2024 21:44	13302	ORVI_T2	0	0	0	0	0	0	1.87	1.84	0	0	0	0	0	0
8/24/2024 21:44	45902	AUBU_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
8/24/2024 21:44	64902	MILL_T2	0	0	0	0	0	0	-0.96	-0.99	1	1	0	900	900	0
8/24/2024 21:44	67605	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/24/2024 21:44	65604	QVIL_T2	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
8/24/2024 21:44	53901	HALI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
8/24/2024 21:44	45901	AUBU_T1	0	0	0	0	0	0	1.03	1.05	0	0	0	0	0	0
8/24/2024 21:44	53902	HALI_T2	1	1	0	5.6	5.4	-0.2	-0.83	-0.82	0	0	0	0	0	0
8/24/2024 21:45	65207	PRIN_T4	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/24/2024 21:45	48302	ORWI_T2	2	2	0	0.7	0.65	-0.05	0.03	0.02	0	0	0	0	0	0
8/24/2024 21:45	51401	LYKE_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
8/24/2024 21:45	65206	PRIN_T4	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/24/2024 21:45	61701	ELIZ_T1	1	1	0	2.1	2.3	0.2	1.49	1.51	0	0	0	0	0	0
8/24/2024 21:45	16102	BING_T2	1	14	13	0.1	0.21	0.11	0.53	0.5	0	0	0	0	0	0
8/24/2024 21:45	23202	HIRU_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
8/24/2024 21:45	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/24/2024 21:46	41702	LOGA_T2	45	0	-45	0.17	0	-0.17	0	0	0	0	0	0	0	0
8/24/2024 21:46	57401	SPAN_T1	0	0	0	0	0	0	-0.67	-0.8	1	1	0	600	600	0
8/24/2024 21:46	16402	MOPO_T1	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
8/24/2024 21:46	29402	BELT_T1	34	39	5	0.55	0.58	0.03	0	0	0	0	0	0	0	0
8/24/2024 21:46	11104	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/24/2024 21:46	66701	STRA_T1	0	0	0	0	0	0	0.15	0.18	1	1	0	600	600	0
8/24/2024 21:46	45902	AUBU_T1	1	7	6	0	0.12	0.12	-1.23	-1.38	0	0	0	0	0	0
8/24/2024 21:46	65802	RTWN_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
8/24/2024 21:46	67503	WEWI_T2	1	1	0	6.1	6.7	0.6	-0.23	-0.26	0	0	0	0	0	0
8/24/2024 21:46	43103	SMIL_T2	4	9	5	0.5	0.43	-0.07	-3.79	-3.85	0	0	0	0	0	0
8/24/2024 21:46	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/24/2024 21:46	43102	SMIL_T2	1	4	3	0.1	0.48	0.38	0	0	0	0	0	0	0	0
8/24/2024 21:46	43105	SMIL_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
8/24/2024 21:46	66703	STRA_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/24/2024 21:46	64503	LAVI_T1	0	0	0	0	0	0	-1.97	-1.85	1	1	0	1200	1200	0
8/24/2024 21:46	57403	SPAN_T1	8	37	29	0.23	0.37	0.14	0	0	0	0	0	0	0	0
8/24/2024 21:46	11103	EGYP_T1	0	0	0	0	0	0	-0.77	-0.8	0	0	0	0	0	0
8/24/2024 21:46	16503	STRO_T2	0	0	0	0	0	0	-0.74	-0.75	1	1	0	1200	1200	0
8/24/2024 21:47	16302	ALPA_T2	0	0	0	0	0	0	-0.51	-0.59	0	0	0	0	0	0
8/24/2024 21:47	12807	MICK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/24/2024 21:47	67605	WARW_T1	1	1	0	0.2	0.6	0.4	-1.09	-1.08	0	0	0	0	0	0
8/24/2024 21:47	16101	BING_T2	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
8/24/2024 21:47	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/24/2024 21:47	16102	BING_T2	1	14	13	0.1	0.21	0.11	0	0	0	0	0	0	0	0
8/24/2024 21:47	11103	EGYP_T1	0	0	0	0	0	0	-0.77	-0.8	0	0	0	0	0	0
8/24/2024 21:47	25402	LAHA_T2	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
8/24/2024 21:47	61506	EPET_T2	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
8/24/2024 21:47	13302	ORVI_T2	0	1	1	0	0.1	0.1	1.87	1.84	0	0	0	0	0	0
8/24/2024 21:47	20403	ASHF_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
8/24/2024 21:47	64301	LINC_T1	0	0	0	0	0	0	-0.14	-0.15	1	1	0	600	600	0
8/24/2024 21:47	65206	PRIN_T4	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/24/2024 21:47	11104	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/24/2024 21:47	65207	PRIN_T4	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/24/2024 21:47	43102	SMIL_T2	1	4	3	0.1	0.48	0.38	0	0	0	0	0	0	0	0
8/24/2024 21:47	27604	PIRI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:47	12801	MICK_T1	0	1	1	0	0	0	-0.9	-0.96	1	1	0	600	600	0
8/24/2024 21:47	61501	EPET_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
8/24/2024 21:47	43103	SMIL_T2	4	9	5	0.5	0.43	-0.07	-1.9	-1.93	0	0	0	0	0	0
8/24/2024 21:47	14702	TREX_T2	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
8/24/2024 21:47	44201	POIN_T1	18	82	64	0.13	0.2	0.07	-1.67	-1.85	1	1	0	1200	1200	0
8/24/2024 21:47	20601	GRIMO_T2	1	1	0	2	0	-2	0.71	0.7	0	0	0	0	0	0
8/24/2024 21:47	20802	LOPO_T1	0	0	0	0	0	0	-1.11	-1.11	1	1	0	600	600	0
8/24/2024 21:47	43105	SMIL_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
8/24/2024 21:48	46206	DANV_T2	0	0	0	0	0	0	0.74	0.67	2	2	0	2100	2100	0
8/24/2024 21:48	47002	HUGH_T2	6	3	-3	0.22	0.23	0.01	0	0	0	0	0	0	0	0
8/24/2024 21:48	43105	SMIL_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/24/2024 21:48	56504	ROCK_T2	0	0	0	0	0	0	-0.83	-0.85	0	0	0	0	0	0
8/24/2024 21:48	44802	EDAN_T2	0	0	0	0	0	0	-3.73	-3.76	0	0	0	0	0	0
8/24/2024 21:48	10705	CATA_T2	0	0	0	0	0	0	-1.86	-1.87	1	1	0	900	900	0
8/24/2024 21:48	44801	EDAN_T2	26	41	15	0.22	0.31	0.09	0	0	0	0	0	0	0	0
8/24/2024 21:48	66703	STRA_T1	1	2	1	0.1	0.1	0	-0.75	-0.73	0	0	0	0	0	0
8/24/2024 21:48	44202	POIN_T2	1	1	0	4.4	3.4	-1	0	0	0	0	0	0	0	0
8/24/2024 21:48	11507	FREE_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
8/24/2024 21:48	29402	BELT_T1	34	39	5	0.55	0.58	0.03	0	0	0	0	0	0	0	0
8/24/2024 21:48	16302	ALPA_T2	0	0	0	0	0	0	-0.51	-0.59	0	0	0	0	0	0
8/24/2024 21:48	52004	LING_T2	2	2	0	4.7	4.15	-0.55	0	0	0	0	0	0	0	0
8/24/2024 21:48	56501	ROCK_T2	2	2	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
8/24/2024 21:48	52204	DEVO_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/24/2024 21:48	43108	SMIL_T2	0	0	0	0	0	0	-1.11	-1.2	1	1	0	1200	1200	0
8/24/2024 21:48	43103	SMIL_T2	4	9	5	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
8/24/2024 21:48	52202	DEVO_T2	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
8/24/2024 21:48	64204	KINZ_T1	1	1	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
8/24/2024 21:48	46203	DANV_T2	1	1	0	6.7	7.2	0.5	0	0	0	0	0	0	0	0
8/24/2024 21:48	47001	HUGH_T2	3	4	1	8.53	6.83	-1.7	-1.64	-1.69	1	1	0	900	900	0
8/24/2024 21:48	64202	KINZ_T1	3	3	0	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
8/24/2024 21:48	64201	KINZ_T1	1	1	0	0.9	1.3	0.4	-0.66	-0.76	3	3	0	1500	1500	0
8/24/2024 21:48	13905	SEID_T1	0	0	0	0	0	0	-0.69	-0.71	1	1	0	1200	1200	0
8/24/2024 21:48	64203	POIN_T2	1	0	-1	0.4	0	-0.4	0.42	0.35	2	2	0	1800	1800	0
8/24/2024 21:48	67605	WARW_T1	1	1	0	0.2	0.6	0.4	-1.09	-1.08	0	0	0	0	0	0
8/24/2024 21:48	45902	AUBU_T1	1	7	6	0	0.12	0.12	-0.62	-0.69	0	0	0	0	0	0
8/24/2024 21:48	43102	SMIL_T2	1	4	3	0.1	0.48	0.38	0	0	0	0	0	0	0	0
8/24/2024 21:48	11104	EGYP_T1	0	1	1	0	0.1	0.1	0.32	0.35	0	0	0	0	0	0
8/24/2024 21:48	25402	LAHA_T2	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
8/24/2024 21:49	56501	ROCK_T2	2	2	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
8/24/2024 21:49	55101	WERT_T1	0	0	0	0	0	0	-2.28	-1.42	4	3	-1	3300	2400	-900
8/24/2024 21:49	16302	ALPA_T2	0	0	0	0	0	0	-0.51	-0.59	0	0	0	0	0	0
8/24/2024 21:49	66504	SMAN_T2	0	0	0	0	0	0	-2.53	-2.57	2	2	0	2400	2400	0
8/24/2024 21:49	45901	AUBU_T1	0	0	0	0	0	0	1.03	1.05	0	0	0	0	0	0
8/24/2024 21:49	53902	HALI_T2	1	1	0	5.3	5.4	0.1	-0.83	-0.82	0	0	0	0	0	0
8/24/2024 21:49	46001	BERW_T1	0	0	0	0	0	0	-2.22	-1.01	0	0	0	0	0	0
8/24/2024 21:49	57403	SPAN_T1	8	37	29	0.23	0.37	0.14	0	0	0	0	0	0	0	0
8/24/2024 21:49	66505	SMAN_T2	3	3	0	0.47	0.73	0.26	0	0	0	0	0	0	0	0
8/24/2024 21:49	67503	WEWI_T2	1	1	0	6.1	6.7	0.6	-0.23	-0.26	0	0	0	0	0	0
8/24/2024 21:49	64101	REFR_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
8/24/2024 21:49	53901	HALI_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/24/2024 21:49	10805	CHHI_T2	1	1	0	8	7.7	-0.3	-0.91	-0.91	1	1	0	600	600	0
8/24/2024 21:49	53903	HALI_T2	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
8/24/2024 21:49	66703	STRA_T1	1	2	1	0.1	0.1	0	-0.75	-0.73	0	0	0	0	0	0
8/24/2024 21:49	45902	AUBU_T1	1	7	6	0	0.12	0.12	-0.62	-0.69	0	0	0	0	0	0
8/24/2024 21:49	11104	EGYP_T1	0	1	1	0	0.1	0.1	0.32	0.35	0	0	0	0	0	0
8/24/2024 21:49	42701	AUGU_T1	1	1	0	1.1	1.4	0.3	0	0	2	2	0	1800	1800	0
8/24/2024 21:49	47802	MOCA_T2	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
8/24/2024 21:49	56504	ROCK_T2	0	0	0	0	0	0	-0.83	-0.85	0	0	0	0	0	0
8/24/2024 21:49	57401	SPAN_T1	0	0	0	0	0	0	-0.67	-0.8	1	1	0	600	600	0
8/24/2024 21:49	12701	MACU_T1	3	1	-2	0.2	0.1	-0.1	-1.05	-1.08	1	1	0	1200	1200	0
8/24/2024 21:49	65802	RTWN_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
8/24/2024 21:50	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:50	14403	SSLA_T1	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
8/24/2024 21:50	52501	PROG_T1	73	44	-29	0.13	0.13	0	-1.15	-1.18	1	1	0	300	300	0
8/24/2024 21:50	60803	BUCK_T1	15	1	-14	0.41	0.1	-0.31	0	0	0	0	0	0	0	0
8/24/2024 21:50	66504	SMAN_T2	0	0	0	0	0	0	-1.26	-1.28	1	1	0	1200	1200	0
8/24/2024 21:50	66505	SMAN_T2	3	3	0	0.47	0.73	0.26	0	0	0	0	0	0	0	0
8/24/2024 21:50	57401	SPAN_T1	0	0	0	0	0	0	-0.67	-0.8	1	1	0	600	600	0
8/24/2024 21:50	42701	AUGU_T1	1	1	0	1.1	1.4	0.3	0	0	2	2	0	1800	1800	0
8/24/2024 21:50	25501	MADI_T1	3	3	0	1.1	0.97	-0.13	0	0	0	0	0	0	0	0
8/24/2024 21:50	60801	BUCK_T1	22	0	-22	0.19	0	-0.19	-0.76	-0.11	1	0	-1	600	0	-600
8/24/2024 21:50	12701	MACU_T1	3	1	-2	0.2	0.1	-0.1	-1.05	-1.08	1	1	0	1200	1200	0
8/24/2024 21:50	25501	MADI_T1	29	108	79	0.16	0.33	0.17	-0.86	-0.87	0	0	0	0	0	0
8/24/2024 21:50	14702	TREX_T2	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
8/24/2024 21:50	46203	DANV_T2	1	1	0	6.7	7.2	0.5	-1.77	-1.81	0	0	0	0	0	0
8/24/2024 21:50	12604	MACA_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
8/24/2024 21:50	47802	MOCA_T2	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
8/24/2024 21:50	55002	NEWP_T1	5	6	1	0.68	0.72	0.04	-0.12	-0.14	0	0	0	0	0	0
8/24/2024 21:50	57403	SPAN_T1	8	37	29	0.23	0.37	0.14	0	0	0	0	0	0	0	0
8/24/2024 21:50	14801	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/24/2024 21:50	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:50	14802	TREI_T2	0	0	0	0	0	0	0.62	0.56	0	0	0	0	0	0
8/24/2024 21:50	52004	LING_T2	2	2	0	4.7	4.15	-0.55	0	0	0	0	0	0	0	0
8/24/2024 21:50	52002	LING_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
8/24/2024 21:50	63602	LETO_T1	0	0	0	0	0	0	-0.63	-0.66	1	1	0	600	600	0
8/24/2024 21:51	56504	ROCK_T2	0	0	0	0	0	0	-0.83	-0.85	0	0	0	0	0	0
8/24/2024 21:51	53501	EVIL_T2	1	2	1	0.6	0.3	-0.3	-0.01	-0.01	1	1	0	600	600	0
8/24/2024 21:51	53901	HALI_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/24/2024 21:51	67605	WARW_T1	1	1	0	0.2	0.6	0.4	-1.08	-1.13	0	0	0	0	0	0
8/24/2024 21:51	66703	STRA_T1	1	2	1	0.1	0.1	0	-0.73	-0.83	0	0	0	0	0	0
8/24/2024 21:51	45902	AUBU_T1	1	7	6	0	0.12	0.12	-1.38	-1.26	0	0	0	0	0	0
8/24/2024 21:51	26401	INOR_T1	1	1	0	7.8	8.2	0.4	0	0	0	0	0	0	0	0
8/24/2024 21:51	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/24/2024 21:51	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:51	48302	ORWI_T2	2	2	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
8/24/2024 21:51	29402	BELT_T1	34	39	5	0.55	0.58	0.03	0	0	0	0	0	0	0	0
8/24/2024 21:51	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:51	53902	HALI_T2	1	1	0	5.3	5.4	0.1	-0.83	-0.82	0	0	0	0	0	0
8/24/2024 21:51	53903	HALI_T2	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
8/24/2024 21:51	56501	ROCK_T2	2	2	0	0.7	0.65	-0.05	-0.99	-1	0	0	0	0	0	0
8/24/2024 21:51	26402	INOR_T1	0	0	0	0	0	0	-1.93	-1.96	1	1	0	600	600	0
8/24/2024 21:51	15204	SPAR_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
8/24/2024 21:51	60502	NMAN_T2	0	0	0	0	0	0	0	-0.15	0	0	0	0	0	0
8/24/2024 21:52	57106	SPHI_T2	3	3	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
8/24/2024 21:52	57401	SPAN_T1	0	0	0	0	0	0	-0.8	-1.06	1	1	0	600	600	0
8/24/2024 21:52	10805	CHHI_T2	1	1	0	8	7.7	-0.3	-0.91	-0.99	1	1	0	600	600	0
8/24/2024 21:52	57104	SPHI_T2	1	1	0	5.8	9.9	4.1	-3.1	-3.17	2	2	0	1800	1800	0
8/24/2024 21:52	60502	NMAN_T2	0	0	0	0	0	0	0	-0.08	0	0	0	0	0	0
8/24/2024 21:52	52002	LING_T2	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
8/24/2024 21:52	10801	CHHI_T1	0	0	0	0	0	0	-1.7	-1.13	3	2	-1	2100	1500	-600
8/24/2024 21:52	40602	PIGR_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/24/2024 21:52	51602	DUKE_T2	0	0	0	0	0	0	-1.19	-1.21	1	1	0	1200	1200	0
8/24/2024 21:52	52403	GRPA_T2	8	2	-6	0.38	0.55	0.17	0	0	0	0	0	0	0	0
8/24/2024 21:52	67203	TEHI_T1	0	0	0	0	0	0	1.16	1.09	1	1	0	900	900	0
8/24/2024 21:52	55001	NEWP_T1	0	0	0	0	0	0	-0.74	-0.79	1	1	0	600	600	0
8/24/2024 21:52	14203	EALL_T1	0	0	0	0	0	0	-0.01	-0.09	1	1	0	1200	1200	0
8/24/2024 21:52	57205	ROSS_T1	0	0	0	0	0	0	-0.95	-0.99	0	0	0	0	0	0
8/24/2024 21:52	13702	SOHN_T1	0	0	0	0	0	0	0.18	0.13	0	0	0	0	0	0
8/24/2024 21:52	63203	MGTN_T1	0	0	0	0	0	0	-0.18	-0.18	1	1	0	600	600	0
8/24/2024 21:52	42201	SHEN_T2	0	0	0	0	0	0	0.72	0.7	0	0	0	0	0	0
8/24/2024 21:52	44801	EDAN_T2	26	41	15	0.22	0.31	0.09	0	0	0	0	0	0	0	0
8/24/2024 21:52	42802	SELI_T1	1	0	-1	0.1	0	-0.1	-0.23	-0.26	0	0	0	0	0	0
8/24/2024 21:52	43108	SMIL_T2	0	0	0	0	0	0	-1.2	-1.18	1	1	0	1200	1200	0
8/24/2024 21:52	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/24/2024 21:52	44802	EDAN_T2	0	0	0	0	0	0	-1.88	-1.9	0	0	0	0	0	0
8/24/2024 21:52	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
8/24/2024 21:52	64902	MILL_T2	0	0	0	0	0	0	-0.99	-1.01	1	1	0	900	900	0
8/24/2024 21:52	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:52	55002	NEWP_T1	5	6	1	0.68	0.72	0.04	0	0	0	0	0	0	0	0
8/24/2024 21:52	63401	HONY_T1	0	0	0	0	0	0	0.02	-0.22	2	2	0	1200	1200	0
8/24/2024 21:52	43102	SMIL_T2	1	4	3	0.1	0.48	0.38	0	0	0	0	0	0	0	0
8/24/2024 21:52	52004	LING_T2	2	2	0	4.7	4.15	-0.55	0	0	0	0	0	0	0	0
8/24/2024 21:52	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:52	67602	WARW_T2	0	0	0	0	0	0	0.23	0.2	1	1	0	300	300	0
8/24/2024 21:52	52404	GRPA_T2	0	0	0	0	0	0	-0.2	-0.25	0	0	0	0	0	0
8/24/2024 21:52	13002	NBET_T2	0	0	0	0	0	0	-1.34	-1.39	2	2	0	2400	2400	0
8/24/2024 21:52	43105	SMIL_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
8/24/2024 21:52	52401	GRPA_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
8/24/2024 21:52	52402	GRPA_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/24/2024 21:52	43103	SMIL_T2	4	9	5	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
8/24/2024 21:52	22903	HARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/24/2024 21:52	22901	HARW_T1	0	0	0	0	0	0	-0.65	-0.54	1	1	0	1200	1200	0
8/24/2024 21:52	65503	MOJO_T2	3	7	4	0.13	0.2	0.07	-0.94	-1.02	1	1	0	900	900	0
8/24/2024 21:52	56501	ROCK_T2	2	2	0	0.7	0.65	-0.05	-2	-2.03	0	0	0	0	0	0
8/24/2024 21:52	57403	SPAN_T1	8	37	29	0.23	0.37	0.14	0	0	0	0	0	0	0	0
8/24/2024 21:52	57101	SPHI_T2	6	6	0	0.85	0.9	0.05	0	0	0	0	0	0	0	0
8/24/2024 21:52	63501	HEID_TBK1-2	55	55	0	1.76	1.55	-0.21	-0.03	-0.2	1	1	0	900	900	0
8/24/2024 21:52	65502	MOJO_T2	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
8/24/2024 21:52	55408	SHER_T2	1	2	1	1.8	1.8	0	-0.94	-0.94	1	1	0	1200	1200	0
8/24/2024 21:52	29402	BELT_T1	34	39	5	0.55	0.58	0.03	0	0	0	0	0	0	0	0
8/24/2024 21:52	65802	RTWN_T2	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
8/24/2024 21:52	66505	SMAN_T2	3	3	0	0.47	0.73	0.26	-0.42	-0.25	3	3	0	2100	2100	0
8/24/2024 21:53	12006	HATF_T1	0	0	0	0	0	0	0.72	0.63	0	0	0	0	0	0
8/24/2024 21:53	43304	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/24/2024 21:53	55001	NEWP_T1	0	0	0	0	0	0	-0.74	-0.79	1	1	0	600	600	0
8/24/2024 21:53	52004	LING_T2	2	2	0	4.7	4.15	-0.55	0	0	0	0	0	0	0	0
8/24/2024 21:53	15703	TANN_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
8/24/2024 21:53	47002	HUGH_T2	6	3	-3	0.22	0.23	0.01	0	0	0	0	0	0	0	0
8/24/2024 21:53	55002	NEWP_T1	5	6	1	0.68	0.72	0.04	0	0	0	0	0	0	0	0
8/24/2024 21:53	63305	GREE_T1	4	8	4	0.25	0.25	0	0	0	0	0	0	0	0	0
8/24/2024 21:53	66701	STRA_T1	0	0	0	0	0	0	0.18	0.12	1	1	0	600	600	0
8/24/2024 21:53	45501	DERR_T2	0	0	0	0	0	0	-1.15	-1.48	4	4	0	3600	3600	0
8/24/2024 21:53	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
8/24/2024 21:53	43201	MVIL_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
8/24/2024 21:53	46206	DANV_T2	0	0	0	0	0	0	0.67	0.69	2	2	0	2100	2100	0
8/24/2024 21:53	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:53	12002	HATF_T1	92	0	-92	0.11	0	-0.11	0	0	0	0	0	0	0	0
8/24/2024 21:53	10805	CHHI_T2	1	1	0	8	7.7	-0.3	-0.91	-0.99	1	1	0	600	600	0
8/24/2024 21:53	56501	ROCK_T2	2	2	0	0.7	0.65	-0.05	-1	-1.01	0	0	0	0	0	0
8/24/2024 21:53	64904	MILL_T1	0	0	0	0	0	0	-1.29	-0.13	0	0	0	0	0	0
8/24/2024 21:53	53601	DALM_T2	1	1	0	1.1	1.3	0.2	0.01	-0.03	0	0	0	0	0	0
8/24/2024 21:53	66505	SMAN_T2	3	3	0	0.47	0.73	0.26	0	0	0	0	0	0	0	0
8/24/2024 21:53	47001	HUGH_T2	3	4	1	8.53	6.83	-1.7	-1.69	-1.7	1	1	0	900	900	0
8/24/2024 21:53	45802	HEGI_T2	47	48	1	0.88	1.51	0.63	0.53	0.51	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/24/2024 21:53	12004	HATF_T1	8	4	-4	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
8/24/2024 21:53	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:53	67103	SPRI_T1	0	0	0	0	0	0	-0.92	-0.94	0	0	0	0	0	0
8/24/2024 21:53	43301	WATS_T2	0	1	1	0	0.7	0.7	-0.46	-0.5	1	1	0	900	900	0
8/24/2024 21:53	66703	STRA_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/24/2024 21:53	63304	GREE_T1	0	0	0	0	0	0	-1.48	-1.46	0	0	0	0	0	0
8/24/2024 21:53	56504	ROCK_T2	0	0	0	0	0	0	-1.69	0.06	0	0	0	0	0	0
8/24/2024 21:53	46203	DANV_T2	1	1	0	6.7	7.2	0.5	0	0	0	0	0	0	0	0
8/24/2024 21:53	42802	SELI_T1	1	0	-1	0.1	0	-0.1	-0.23	-0.26	0	0	0	0	0	0
8/24/2024 21:53	53501	EVIL_T2	1	2	1	0.6	0.3	-0.3	-0.01	-0.01	1	1	0	600	600	0
8/24/2024 21:53	12005	HATF_T1	5	5	0	0.48	0.52	0.04	0	0	0	0	0	0	0	0
8/24/2024 21:53	15702	TANN_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
8/24/2024 21:54	15204	SFAR_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
8/24/2024 21:54	42201	SHEN_T2	0	0	0	0	0	0	0.72	0.7	0	0	0	0	0	0
8/24/2024 21:54	57104	SPHI_T2	1	1	0	5.8	9.9	4.1	-1.55	-1.58	1	1	0	900	900	0
8/24/2024 21:54	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:54	42701	AUGU_T1	1	1	0	1.1	1.4	0.3	0	0	2	2	0	1800	1800	0
8/24/2024 21:54	53901	HALI_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/24/2024 21:54	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:54	62607	ENGL_T1	0	0	0	0	0	0	-0.69	-0.7	1	1	0	300	300	0
8/24/2024 21:54	64101	REFR_T1	0	0	0	0	0	0	0.55	0.37	0	0	0	0	0	0
8/24/2024 21:54	46001	BERW_T1	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
8/24/2024 21:54	57106	SPHI_T2	3	3	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
8/24/2024 21:54	53903	HALI_T2	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
8/24/2024 21:54	62604	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:54	58102	NEKI_T1	1	1	0	1.6	1.6	0	-1.97	-0.68	1	0	-1	1200	0	-1200
8/24/2024 21:54	63401	HONY_T1	0	0	0	0	0	0	0.01	-0.11	1	1	0	600	600	0
8/24/2024 21:54	53902	HALI_T2	1	1	0	5.3	5.4	0.1	-0.82	-0.83	0	0	0	0	0	0
8/24/2024 21:54	64503	LAVI_T1	0	0	0	0	0	0	-1.85	-2	1	1	0	1200	1200	0
8/24/2024 21:54	51602	DUKE_T2	0	0	0	0	0	0	-1.19	-1.21	1	1	0	1200	1200	0
8/24/2024 21:54	12701	MACU_T1	3	1	-2	0.2	0.1	-0.1	-1.08	0.17	1	0	-1	1200	0	-1200
8/24/2024 21:54	45501	DERR_T2	0	0	0	0	0	0	-1.15	-1.48	4	4	0	3600	3600	0
8/24/2024 21:54	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
8/24/2024 21:54	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:54	14702	TREX_T2	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
8/24/2024 21:54	57101	SPHI_T2	6	6	0	0.85	0.9	0.05	0	0	0	0	0	0	0	0
8/24/2024 21:54	53501	EVIL_T2	1	2	1	0.6	0.3	-0.3	-0.01	-0.01	1	1	0	600	600	0
8/24/2024 21:55	46101	MACI_T2	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
8/24/2024 21:55	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/24/2024 21:55	47401	PENS_T1	0	0	0	0	0	0	0.03	-0.03	0	0	0	0	0	0
8/24/2024 21:55	55002	NEWP_T1	5	6	1	0.68	0.72	0.04	-0.14	-0.16	0	0	0	0	0	0
8/24/2024 21:55	46102	MACI_T1	0	0	0	0	0	0	0.91	0.84	0	0	0	0	0	0
8/24/2024 21:55	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:55	11804	FRAN_T1	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
8/24/2024 21:55	56501	ROCK_T2	2	2	0	0.7	0.65	-0.05	-2	-2.03	0	0	0	0	0	0
8/24/2024 21:55	44802	EDAN_T2	0	0	0	0	0	0	-1.88	-1.9	0	0	0	0	0	0
8/24/2024 21:55	47002	HUGH_T2	6	3	-3	0.22	0.23	0.01	0	0	0	0	0	0	0	0
8/24/2024 21:55	42802	SELI_T1	1	0	-1	0.1	0	-0.1	-0.23	-0.26	0	0	0	0	0	0
8/24/2024 21:55	27604	PIRI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:55	43108	SMIL_T2	0	0	0	0	0	0	-1.2	-1.18	1	1	0	1200	1200	0
8/24/2024 21:55	22602	KIMB_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
8/24/2024 21:55	53501	EVIL_T2	1	2	1	0.6	0.3	-0.3	-0.01	-0.01	1	1	0	600	600	0
8/24/2024 21:55	43202	MVIL_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
8/24/2024 21:55	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
8/24/2024 21:55	55101	WERT_T1	0	0	0	0	0	0	-1.42	-2.01	3	3	0	2400	2400	0
8/24/2024 21:55	51204	MTON_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
8/24/2024 21:55	11104	EGIT_T1	0	1	1	0	0.1	0.1	0.35	0.3	0	0	0	0	0	0
8/24/2024 21:55	43103	SMIL_T2	4	9	5	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
8/24/2024 21:55	45702	LIND_T2	5	9	4	0.3	0.22	-0.08	-1.66	-1.66	0	0	0	0	0	0
8/24/2024 21:55	47001	HUGH_T2	3	4	1	8.53	6.83	-1.7	-1.69	-1.7	1	1	0	900	900	0
8/24/2024 21:55	43105	SMIL_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
8/24/2024 21:55	13702	SCHN_T1	0	0	0	0	0	0	0.18	0.13	0	0	0	0	0	0
8/24/2024 21:55	41901	REED_T1	6	8	2	0.17	0.25	0.08	0	0	0	0	0	0	0	0
8/24/2024 21:55	24702	FLND_T2	0	0	0	0	0	0	-0.32	-0.31	1	1	0	1200	1200	0
8/24/2024 21:55	43101	SMIL_T2	0	0	0	0	0	0	-0.49	-0.54	0	0	0	0	0	0
8/24/2024 21:55	20601	GRWO_T2	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
8/24/2024 21:55	14702	TREX_T2	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
8/24/2024 21:55	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:55	44801	EDAN_T2	26	41	15	0.22	0.31	0.09	-1.53	-1.55	0	0	0	0	0	0
8/24/2024 21:55	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:55	41902	REED_T1	1	1	0	0.1	0	-0.1	1.05	1.02	0	0	0	0	0	0
8/24/2024 21:55	10801	CHHI_T1	0	0	0	0	0	0	-1.7	-1.13	3	2	-1	2100	1500	-600
8/24/2024 21:55	67605	WARW_T1	1	1	0	0.2	0.6	0.4	-1.08	-1.13	0	0	0	0	0	0
8/24/2024 21:55	61502	EPET_T1	0	0	0	0	0	0	-1.57	-1.59	0	0	0	0	0	0
8/24/2024 21:55	20603	GRWO_T2	0	0	0	0	0	0	-0.56	-0.58	1	1	0	900	900	0
8/24/2024 21:55	43102	SMIL_T2	1	4	3	0.1	0.48	0.38	0	0	0	0	0	0	0	0
8/24/2024 21:55	45501	DERR_T2	0	0	0	0	0	0	-0.57	-0.74	2	2	0	1800	1800	0
8/24/2024 21:56	16302	ALPA_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
8/24/2024 21:56	67503	WEWI_T2	1	1	0	6.1	6.7	0.6	-0.26	-0.27	0	0	0	0	0	0
8/24/2024 21:56	64101	REFR_T1	0	0	0	0	0	0	0.37	0.25	0	0	0	0	0	0
8/24/2024 21:56	10801	CHHI_T1	0	0	0	0	0	0	-1.7	-1.13	3	2	-1	2100	1500	-600
8/24/2024 21:56	11805	FRAN_T1	0	0	0	0	0	0	-1.32	-1.32	1	1	0	1200	1200	0
8/24/2024 21:56	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:56	59101	WALK_T2	0	0	0	0	0	0	-0.11	-0.21	0	0	0	0	0	0
8/24/2024 21:56	13704	SCHN_T2	0	0	0	0	0	0	-0.13	-0.3	0	0	0	0	0	0
8/24/2024 21:56	52002	LING_T2	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
8/24/2024 21:56	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:56	66703	STRA_T1	1	2	1	0.1	0.1	0	-0.73	-0.83	0	0	0	0	0	0
8/24/2024 21:56	56501	ROCK_T2	2	2	0	0.7	0.65	-0.05	-1	-1.01	0	0	0	0	0	0
8/24/2024 21:56	22903	HARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/24/2024 21:56	52004	LING_T2	2	2	0	4.7	4.15	-0.55	0	0	0	0	0	0	0	0
8/24/2024 21:56	42802	SELI_T1	1	0	-1	0.1	0	-0.1	-0.23	-0.26	0	0	0	0	0	0
8/24/2024 21:56	46901	MNTG_T2	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
8/24/2024 21:56	22901	HARW_T1	0	0	0	0	0	0	-0.65	-0.54	1	1	0	1200	1200	0
8/24/2024 21:56	66505	SMAN_T2	3	3	0	0.47	0.73	0.26	-0.42	-0.25	3	3	0	2100	2100	0
8/24/2024 21:56	64503	LAVI_T1	0	0	0	0	0	0	-1.85	-2	1	1	0	1200	1200	0
8/24/2024 21:57	55101	WERT_T1	0	0	0	0	0	0	-1.42	-2.01	3	3	0	2400	2400	0
8/24/2024 21:57	42802	SELI_T1	1	0	-1	0.1	0	-0.1	-0.23	-0.26	0	0	0	0	0	0
8/24/2024 21:57	66703	STRA_T1	1	2	1	0.1	0.1	0	-0.73	-0.83	0	0	0	0	0	0
8/24/2024 21:57	45501	DERR_T2	0	0	0	0	0	0	-0.57	-0.74	2	2	0	1800	1800	0
8/24/2024 21:57	57403	SPAN_T1	8	37	29	0.23	0.37	0.14	0	0	0	0	0	0	0	0
8/24/2024 21:57	64101	REFR_T1	0	0	0	0	0	0	0.37	0.25	0	0	0	0	0	0
8/24/2024 21:57	67605	WARW_T1	1	1	0	0.2	0.6	0.4	-2.15	-2.25	0	0	0	0	0	0
8/24/2024 21:57	44801	EDAN_T2	26	41	15	0.22	0.31	0.09	-1.53	-1.55	0	0	0	0	0	0
8/24/2024 21:57	66505	SMAN_T2	3	3	0	0.47	0.73	0.26	-0.42	-0.25	3	3	0	2100	2100	0
8/24/2024 21:57	57401	SPAN_T1	0	0	0	0	0	0	-0.8	-1.06	1	1	0	600	600	0
8/24/2024 21:57	63501	HEID_TBX1-2	55	55	0	1.76	1.55	-0.21	-0.03	-0.2	1	1	0	900	900	0
8/24/2024 21:58	54505	ENOL_T2	0	0	0	0	0	0	-0.98	-0.96	1	1	0	600	600	0
8/24/2024 21:58	66703	STRA_T1	1	2	1	0.1	0.1	0	-0.73	-0.83	0	0	0	0	0	0
8/24/2024 21:58	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
8/24/2024 21:58	43202	MVIL_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
8/24/2024 21:58	65902	SAKR_T2	0	0	0	0	0	0	-1.12	-1.21	0	0	0	0	0	0
8/24/2024 21:58	54701	NEBL_T1	1	1	0	1.1	1.5	0.4	0	0	1	1	0	600	600	0
8/24/2024 21:58	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
8/24/2024 21:58	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:58	45802	HEGI_T2	47	48	1	0.88	1.51	0.63	0.53	0.51	0	0	0	0	0	0
8/24/2024 21:58	63801	HEMP_T1	0	0	0	0	0	0	-0.88	-0.84	1	1	0	900	900	0
8/24/2024 21:58	46203	DANV_T2	1	1	0	6.7	7.2	0.5	-1.81	-1.85	0	0	0	0	0	0
8/24/2024 21:58	63805	GREE_T1	4	8	4	0.25	0.25	0	0	0	0	0	0	0	0	0
8/24/2024 21:58	20401	ASHF_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
8/24/2024 21:58	42802	SELI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/24/2024 21:58	58401	MORO_T1	5	0	-5	0.88	0	-0.88	0	0	0	0	0	0	0	0
8/24/2024 21:58	66502	SMAN_T2	0	0	0	0	0	0	-0.02	-0.08	0	0	0	0	0	0
8/24/2024 21:58	52204	DEVO_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/24/2024 21:58	52101	MEIS_T1	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
8/24/2024 21:58	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:58	42801	SELI_T1	0	0	0	0	0	0	-1.81	-1.93	1	1	0	1200	1200	0
8/24/2024 21:58	42701	AUGU_T1	1	1	0	1.1	1.4	0.3	0	0	2	2	0	1800	1800	0
8/24/2024 21:58	65901	SAKR_T2	1	1	0	8.4	8.8	0.4	0	0	0	0	0	0	0	0
8/24/2024 21:58	63802	GREE_T1	0	0	0	0	0	0	-0.6	-0.57	0	0	0	0	0	0
8/24/2024 21:58	52202	DEVO_T2	0	0	0	0	0	0	-1.98	-2.05	0	0	0	0	0	0
8/24/2024 21:58	64101	REFR_T1	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
8/24/2024 21:58	61703	ELIZ_T1	0	0	0	0	0	0	-2.7	-2.74	2	2	0	2100	2100	0
8/24/2024 21:58	58402	MORO_T1	0	0	0	0	0	0	-0.3	-0.36	2	2	0	1500	1500	0
8/24/2024 21:58	66505	SMAN_T2	3	3	0	0.47	0.73	0.26	0	0	0	0	0	0	0	0
8/24/2024 21:58	59101	WALK_T2	0	0	0	0	0	0	-0.11	-0.21	0	0	0	0	0	0
8/24/2024 21:58	12701	MACU_T1	3	1	-2	0.2	0.1	-0.1	-1.08	0.17	1	0	-1	1200	0	-1200
8/24/2024 21:58	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
8/24/2024 21:58	64503	LAVI_T1	0	0	0	0	0	0	-1.85	-2	1	1	0	1200	1200	0
8/24/2024 21:58	23001	SAJO_T1	0	0	0	0	0	0	-0.96	-0.99	0	0	0	0	0	0
8/24/2024 21:58	57304	MOAL_T2	0	0	0	0	0	0	-0.52	-0.48	0	0	0	0	0	0
8/24/2024 21:58	44801	EDAN_T2	26	41	15	0.22	0.31	0.09	-1.53	-1.55	0	0	0	0	0	0
8/24/2024 21:58	46001	BERW_T1	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
8/24/2024 21:58	57303	MOAL_T2	1	1	0	8	8.2	0.2	0	0	0	0	0	0	0	0
8/24/2024 21:58	61701	ELIZ_T1	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
8/24/2024 21:59	44801	EDAN_T2	26	41	15	0.22	0.31	0.09	0	0	0	0	0	0	0	0
8/24/2024 21:59	43105	SMIL_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
8/24/2024 21:59	44203	POIN_T2	1	0	-1	0.4	0	-0.4	0.18	0.1	1	1	0	900	900	0
8/24/2024 21:59	14403	SSLA_T1	0	0	0	0	0	0	-0.52	-0.56	0	0	0	0	0	0
8/24/2024 21:59	43102	SMIL_T2	1	4	3	0.1	0.48	0.38	0	0	0	0	0	0	0	0
8/24/2024 21:59	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 21:59	64101	REFR_T1	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
8/24/2024 21:59	44802	EDAN_T2	0	0	0	0	0	0	-1.88	-1.9	0	0	0	0	0	0
8/24/2024 21:59	43202	MVIL_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
8/24/2024 21:59	45702	LIND_T2	5	9	4	0.3	0.22	-0.08	-1.66	-1.66	0	0	0	0	0	0
8/24/2024 21:59	65802	RTWN_T2	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
8/24/2024 21:59	46004	BERW_T2	0	0	0	0	0	0	-0.35	-0.39	0	0	0	0	0	0
8/24/2024 21:59	44202	POIN_T2	1	1	0	4.4	3.4	-1	0	0	0	0	0	0	0	0
8/24/2024 21:59	55101	WERT_T1	0	0	0	0	0	0	-2.84	-4.02	6	6	0	4800	4800	0
8/24/2024 21:59	43103	SMIL_T2	4	9	5	0.5	0.43	-0.07	-3.85	-3.89	0	0	0	0	0	0
8/24/2024 22:00	56504	ROCK_T2	0	0	0	0	0	0	-0.85	0.03	0	0	0	0	0	0
8/24/2024 22:00	42201	SHEN_T2	0	0	0	0	0	0	0.72	0.7	0	0	0	0	0	0
8/24/2024 22:00	64101	REFR_T1	0	0	0	0	0	0	0.37	0.25	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/24/2024 22:00	61702	ELIZ_T2	0	0	0	0	0	0	-1.69	-1.7	2	2	0	1500	1500	0
8/24/2024 22:00	56501	ROCK_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
8/24/2024 22:00	53501	EVIL_T2	1	2	1	0.1	0.4	0.3	-0.01	-0.01	1	1	0	600	600	0
8/24/2024 22:00	55101	WERT_T1	0	0	0	0	0	0	-1.42	-2.01	3	3	0	2400	2400	0
8/24/2024 22:00	41902	REED_T1	1	0	-1	0.1	0	-0.1	1.05	1.02	0	0	0	0	0	0
8/24/2024 22:00	45501	DERR_T2	0	0	0	0	0	0	-0.57	-0.74	2	2	0	1800	1800	0
8/24/2024 22:00	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 22:00	46203	DANV_T2	1	1	0	6.9	7.6	0.7	-1.81	-1.85	0	0	0	0	0	0
8/24/2024 22:00	40502	CRES_T2	31	2	-29	0.26	0.1	-0.16	-1.11	-0.19	0	0	0	0	0	0
8/24/2024 22:00	41901	REED_T1	8	3	-5	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
8/24/2024 22:00	60101	COCA_T1	0	0	0	0	0	0	0.61	0.73	0	0	0	0	0	0
8/24/2024 22:00	52004	LING_T2	2	2	0	4.15	4.25	0.1	0	0	0	0	0	0	0	0
8/24/2024 22:00	14403	SSLA_T1	0	0	0	0	0	0	-0.52	-0.56	0	0	0	0	0	0
8/24/2024 22:00	52002	LING_T2	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
8/24/2024 22:00	61701	ELIZ_T1	1	1	0	1.9	2.5	0.6	0	0	0	0	0	0	0	0
8/24/2024 22:00	40501	CRES_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
8/24/2024 22:00	21501	CEAV_T2	0	0	0	0	0	0	1.29	1.26	0	0	0	0	0	0
8/24/2024 22:01	64202	KINZ_T1	3	3	0	0.53	0.67	0.14	0	0	0	0	0	0	0	0
8/24/2024 22:01	40901	JESH_T1	0	0	0	0	0	0	-0.32	-0.25	1	1	0	600	600	0
8/24/2024 22:01	64201	KINZ_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
8/24/2024 22:01	64203	KINZ_T1	0	0	0	0	0	0	-0.25	-0.26	1	1	0	600	600	0
8/24/2024 22:01	53901	HALI_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
8/24/2024 22:01	56501	ROCK_T2	2	2	0	0.65	0.6	-0.05	-1	-1.01	0	0	0	0	0	0
8/24/2024 22:01	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 22:01	53903	HALI_T2	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
8/24/2024 22:01	64204	KINZ_T1	1	1	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
8/24/2024 22:01	67605	WARW_T1	1	5	4	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/24/2024 22:01	67604	WARW_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
8/24/2024 22:01	53902	HALI_T2	1	1	0	5.4	5.2	-0.2	-0.82	-0.83	0	0	0	0	0	0
8/24/2024 22:02	41002	LAUR_T2	59	60	1	0.85	1.42	0.57	-0.18	-0.19	0	0	0	0	0	0
8/24/2024 22:02	44802	EDAN_T2	0	0	0	0	0	0	-1.88	-1.9	0	0	0	0	0	0
8/24/2024 22:02	41902	REED_T1	1	0	-1	0.1	0	-0.1	1.05	1.02	0	0	0	0	0	0
8/24/2024 22:02	41001	LAUR_T2	86	88	2	0.94	1.47	0.53	0	0	0	0	0	0	0	0
8/24/2024 22:02	46206	DANV_T2	0	0	0	0	0	0	0.67	0.69	2	2	0	2100	2100	0
8/24/2024 22:02	46402	FLEM_T2	21	182	161	0.3	0.24	-0.06	-0.4	-0.49	0	0	0	0	0	0
8/24/2024 22:02	44801	EDAN_T2	27	52	25	0.26	0.44	0.18	0	0	0	0	0	0	0	0
8/24/2024 22:02	46203	DANV_T2	1	1	0	6.9	7.6	0.7	0	0	0	0	0	0	0	0
8/24/2024 22:02	41901	REED_T1	8	3	-5	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
8/24/2024 22:02	46401	FLEM_T2	21	53	32	0.18	0.27	0.09	0	0	0	0	0	0	0	0
8/24/2024 22:02	44201	PCIN_T1	76	109	33	0.19	0.21	0.02	-1.85	-1.78	1	1	0	1200	1200	0
8/24/2024 22:03	63501	HEID_TBK1-2	55	55	0	1.7	1.51	-0.19	-0.03	-0.2	1	1	0	900	900	0
8/24/2024 22:03	42701	AUGU_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
8/24/2024 22:03	43102	SMIL_T2	4	4	0	0.48	0.53	0.05	0	0	0	0	0	0	0	0
8/24/2024 22:03	46402	FLEM_T2	21	182	161	0.3	0.24	-0.06	-0.4	-0.49	0	0	0	0	0	0
8/24/2024 22:03	46901	MNTG_T2	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
8/24/2024 22:03	43103	SMIL_T2	9	8	-1	0.43	0.43	0	0	0	0	0	0	0	0	0
8/24/2024 22:03	63305	GREE_T1	4	8	4	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
8/24/2024 22:03	40902	JESH_T1	0	0	0	0	0	0	-1.22	-1.28	1	1	0	600	600	0
8/24/2024 22:03	63304	GREE_T1	0	0	0	0	0	0	-1.48	-1.46	0	0	0	0	0	0
8/24/2024 22:03	46401	FLEM_T2	21	53	32	0.18	0.27	0.09	0	0	0	0	0	0	0	0
8/24/2024 22:03	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 22:03	42201	SHEN_T2	0	0	0	0	0	0	0.72	0.7	0	0	0	0	0	0
8/24/2024 22:03	43105	SMIL_T2	1	5	4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
8/24/2024 22:03	43108	SMIL_T2	0	0	0	0	0	0	-1.2	-1.18	1	1	0	1200	1200	0
8/24/2024 22:04	42802	SELI_T1	0	0	0	0	0	0	-0.47	-0.52	0	0	0	0	0	0
8/24/2024 22:05	59101	WALK_T2	0	0	0	0	0	0	-0.11	-0.21	0	0	0	0	0	0
8/24/2024 22:05	45501	DERR_T2	0	0	0	0	0	0	-0.57	-0.74	2	2	0	1800	1800	0
8/24/2024 22:05	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2024 22:06	52403	GRPA_T2	2	2	0	0.55	0.8	0.25	-0.5	-0.52	0	0	0	0	0	0
8/24/2024 22:06	52402	GRPA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/24/2024 22:06	52401	GRPA_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
8/24/2024 22:08	65205	PRIN_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
8/24/2024 22:13	16103	BING_T2	0	0	0	0	0	0	-1.17	-1.19	1	1	0	900	900	0
8/24/2024 22:13	16102	BING_T2	4	14	10	0.15	0.3	0.15	0	0	0	0	0	0	0	0
8/24/2024 22:14	40101	HUNT_T2	0	0	0	0	0	0	-1.18	-1.19	0	0	0	0	0	0
8/24/2024 22:19	64101	REFR_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
8/24/2024 22:29	57403	SPAN_T1	35	84	49	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
8/24/2024 22:29	57401	SPAN_T1	0	0	0	0	0	0	-1.07	-0.89	1	1	0	600	600	0
8/24/2024 22:57	52202	DEVO_T2	0	0	0	0	0	0	-1.09	-1.15	0	0	0	0	0	0
8/24/2024 22:57	52204	DEVO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/24/2024 23:05	12302	LANA_T2	0	0	0	0	0	0	-2.64	-2.68	3	3	0	2700	2700	0
8/24/2024 23:29	46803	HEPB_T2	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
8/24/2024 23:29	46801	HEPB_T2	3	19	16	0.6	0.24	-0.36	0.74	0.7	0	0	0	0	0	0
8/25/2024 1:50	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 2:31	61701	ELIZ_T1	1	1	0	3.4	3.7	0.3	1.23	1.15	0	0	0	0	0	0
8/25/2024 7:18	48301	ORWI_T1	2	2	0	4.8	4.7	-0.1	0	0.01	0	0	0	0	0	0
8/25/2024 7:19	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 7:21	67503	WEWI_T2	1	1	0	8.5	8.2	-0.3	-0.22	-0.21	0	0	0	0	0	0
8/25/2024 7:21	67103	SPRI_T1	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
8/25/2024 7:23	67805	WLAN_T1	0	2	2	0	0.1	0.1	-1.58	-1.58	0	0	0	0	0	0
8/25/2024 7:27	62105	ELAN_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
8/25/2024 7:32	12605	MACA_T1	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
8/25/2024 7:35	42903	MIDD_T2	2	2	0	1	1.05	0.05	-0.49	-0.49	0	0	0	0	0	0
8/25/2024 7:37	15202	SFAR_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
8/25/2024 7:42	60904	DONG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 7:42	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 7:42	45901	AUBU_T1	0	0	0	0	0	0	1.01	0.98	0	0	0	0	0	0
8/25/2024 7:42	45902	AUBU_T1	9	8	-1	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
8/25/2024 7:43	53502	EVIL_T2	10	6	-4	0.28	0.23	-0.05	0.06	0.1	0	0	0	0	0	0
8/25/2024 7:43	53501	EVIL_T2	3	4	1	1.6	0.98	-0.62	0	0	0	0	0	0	0	0
8/25/2024 7:43	43202	MVIL_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
8/25/2024 7:45	53803	MBRG_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
8/25/2024 7:45	64904	MILL_T1	0	0	0	0	0	0	-0.47	-0.42	0	0	0	0	0	0
8/25/2024 7:46	12401	MILF_T1	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
8/25/2024 7:46	53502	EVIL_T2	6	2	-4	0.23	0.2	-0.03	0.06	0.1	0	0	0	0	0	0
8/25/2024 7:46	53501	EVIL_T2	4	3	-1	0.98	0.73	-0.25	0	0	0	0	0	0	0	0
8/25/2024 7:46	11903	ETEX_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
8/25/2024 7:48	40101	HUNT_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
8/25/2024 7:49	64203	KINZ_T1	0	0	0	0	0	0	0.19	0.29	0	0	0	0	0	0
8/25/2024 7:49	25402	LAHA_T2	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
8/25/2024 7:49	64204	KINZ_T1	1	1	0	0.6	1.4	0.8	0	0	0	0	0	0	0	0
8/25/2024 7:49	64201	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/25/2024 7:52	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 7:52	15203	SFAR_T2	0	1	1	0	0.1	0.1	-1.19	-1.16	0	0	0	0	0	0
8/25/2024 7:53	29402	BELT_T1	119	96	-23	0.86	0.75	-0.11	0	0	0	0	0	0	0	0
8/25/2024 7:54	15203	SFAR_T2	0	1	1	0	0.1	0.1	-1.19	-1.16	0	0	0	0	0	0
8/25/2024 7:55	45902	AUBU_T1	8	9	1	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
8/25/2024 7:55	45901	AUBU_T1	0	0	0	0	0	0	0.98	1.02	0	0	0	0	0	0
8/25/2024 7:56	29402	BELT_T1	119	96	-23	0.86	0.75	-0.11	0	0	0	0	0	0	0	0
8/25/2024 7:56	62106	ELAN_T1	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
8/25/2024 7:56	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/25/2024 7:57	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 8:01	61503	EPET_T1	0	0	0	0	0	0	-1.04	-1.01	0	0	0	0	0	0
8/25/2024 8:05	15203	SFAR_T2	1	1	0	0.1	0.2	0.1	-1.19	-1.16	0	0	0	0	0	0
8/25/2024 8:08	65207	PRIN_T4	2	2	0	0.2	0.1	-0.1	0	0	1	1	0	1200	1200	0
8/25/2024 8:08	65206	PRIN_T4	1	1	0	3.4	0	-3.4	0	0	0	0	0	0	0	0
8/25/2024 8:11	40504	CRES_T1	0	0	0	0	0	0	-0.58	-0.55	0	0	0	0	0	0
8/25/2024 8:14	63305	GREE_T1	0	0	0	0	0	0	-2.07	-1.94	1	1	0	900	900	0
8/25/2024 8:14	40504	CRES_T1	0	0	0	0	0	0	-0.58	-0.55	0	0	0	0	0	0
8/25/2024 8:17	63305	GREE_T1	0	0	0	0	0	0	-2.07	-1.94	1	1	0	900	900	0
8/25/2024 8:18	13503	MCMI_T2	0	22	22	0	0.16	0.16	-0.01	-0.93	0	0	0	0	0	0
8/25/2024 8:20	50501	MECH_T1	4	4	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/25/2024 8:20	50502	MECH_T1	1	1	0	1.7	1.9	0.2	-0.4	-0.41	1	1	0	1200	1200	0
8/25/2024 8:25	45902	AUBU_T1	3	1	-2	0.1	0.7	0.6	0	0	0	0	0	0	0	0
8/25/2024 8:25	45901	AUBU_T1	0	0	0	0	0	0	0.99	1.04	0	0	0	0	0	0
8/25/2024 8:28	62106	ELAN_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/25/2024 8:33	60502	NMAN_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
8/25/2024 8:33	41902	REED_T1	1	2	1	0.1	0.2	0.1	0.93	0.97	0	0	0	0	0	0
8/25/2024 8:35	41902	REED_T1	1	2	1	0.1	0.2	0.1	0.93	0.97	0	0	0	0	0	0
8/25/2024 8:37	67503	WEWI_T2	1	1	0	7.2	7.1	-0.1	0.02	0.1	0	0	0	0	0	0
8/25/2024 8:37	67502	WEWI_T2	0	0	0	0	0	0	-1.4	-1.27	1	1	0	900	900	0
8/25/2024 8:38	67502	WEWI_T2	0	0	0	0	0	0	-1.4	-1.27	1	1	0	900	900	0
8/25/2024 8:38	67503	WEWI_T2	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
8/25/2024 8:39	67505	WEWI_T1	0	0	0	0	0	0	0	0.04	1	1	0	900	900	0
8/25/2024 8:43	61001	DONV_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
8/25/2024 8:44	61006	HATF_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
8/25/2024 8:47	51402	LYKE_T1	2	0	-2	0.15	0	-0.15	-0.85	-0.86	0	0	0	0	0	0
8/25/2024 8:50	58202	NEWV_T1	0	0	0	0	0	0	0.02	0.14	0	0	0	0	0	0
8/25/2024 8:50	41902	REED_T1	1	3	2	0.2	0.3	0.1	0.97	0.97	0	0	0	0	0	0
8/25/2024 8:51	43202	MVIL_T2	0	0	0	0	0	0	-0.4	-0.35	0	0	0	0	0	0
8/25/2024 8:51	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 8:55	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 8:56	14201	EALL_T1	0	0	0	0	0	0	0.6	0.65	0	0	0	0	0	0
8/25/2024 8:56	44301	BEAV_T2	2	1	-1	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/25/2024 9:06	46502	LOHA_T1	0	0	0	0	0	0	-2.56	-2.49	2	2	0	2400	2400	0
8/25/2024 9:06	46506	LOHA_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/25/2024 9:06	46501	LOHA_T1	1	0	-1	2.3	0	-2.3	0	0	0	0	0	0	0	0
8/25/2024 9:07	54201	PENN_T1	4	3	-1	0.9	0.93	0.03	-0.77	-0.79	0	0	0	0	0	0
8/25/2024 9:07	54203	PENN_T1	18	6	-12	0.33	0.42	0.09	0	0	0	0	0	0	0	0
8/25/2024 9:09	64602	LEOL_T1	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
8/25/2024 9:10	57403	SPAN_T1	4	0	-4	0.13	0	-0.13	0.12	0.11	0	0	0	0	0	0
8/25/2024 9:10	45902	AUBU_T1	1	1	0	0.6	1	0.4	-0.55	-0.54	0	0	0	0	0	0
8/25/2024 9:11	46004	BERW_T2	0	0	0	0	0	0	-0.59	-0.52	0	0	0	0	0	0
8/25/2024 9:11	20401	ASHF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/25/2024 9:11	20403	ASHF_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
8/25/2024 9:12	46004	BERW_T2	0	0	0	0	0	0	-0.59	-0.52	0	0	0	0	0	0
8/25/2024 9:12	46002	BERW_T2	0	0	0	0	0	0	-1.26	-1.27	1	1	0	900	900	0
8/25/2024 9:12	44801	EDAN_T2	4	44	40	0.28	0.28	0	-1.61	-1.58	0	0	0	0	0	0
8/25/2024 9:13	20403	ASHF_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
8/25/2024 9:13	20401	ASHF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/25/2024 9:15	40602	PIGR_T1	1	1	0	0.6	0.6	0	-1.21	-1.21	1	1	0	600	600	0
8/25/2024 9:15	44801	EDAN_T2	41	33	-8	0.28	0.23	-0.05	-1.61	-1.58	0	0	0	0	0	0
8/25/2024 9:18	51401	LYKE_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/25/2024 9:18	63403	HONY_T2	0	0	0	0	0	0	-0.49	-0.48	1	1	0	600	600	0
8/25/2024 9:20	53802	MBRG_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
8/25/2024 9:20	42201	SHEN_T2	0	0	0	0	0	0	0.67	0.71	0	0	0	0	0	0
8/25/2024 9:22	41902	REED_T1	2	2	0	0.35	0	-0.35	1.03	0.23	0	0	0	0	0	0
8/25/2024 9:22	67203	TEHI_T1	0	0	0	0	0	0	0.99	1.01	1	1	0	900	900	0
8/25/2024 9:23	42201	SHEN_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
8/25/2024 9:24	42201	SHEN_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
8/25/2024 9:25	20403	ASHF_T2	0	0	0	0	0	0	0.3	0.35	0	0	0	0	0	0
8/25/2024 9:25	45902	AUBU_T1	1	1	0	0.9	1.1	0.2	-0.54	-0.47	0	0	0	0	0	0
8/25/2024 9:25	67605	WARW_T1	0	3	3	0	0.23	0.23	-2.11	-2.06	0	0	0	0	0	0
8/25/2024 9:25	20401	ASHF_T2	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
8/25/2024 9:26	11104	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 9:26	20403	ASHF_T2	0	0	0	0	0	0	0.3	0.35	0	0	0	0	0	0
8/25/2024 9:26	11102	EGYP_T1	1	1	0	0.2	0.9	0.7	-0.27	-0.26	0	0	0	0	0	0
8/25/2024 9:26	20401	ASHF_T2	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
8/25/2024 9:27	45501	DERR_T2	0	0	0	0	0	0	-0.57	-0.52	2	2	0	1800	1800	0
8/25/2024 9:27	11507	FREE_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
8/25/2024 9:28	40101	HUNT_T2	2	1	-1	0.55	0	-0.55	-0.59	-0.52	0	0	0	0	0	0
8/25/2024 9:28	45501	DERR_T2	0	0	0	0	0	0	-0.57	-0.52	2	2	0	1800	1800	0
8/25/2024 9:30	11104	EGYP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/25/2024 9:30	11102	EGYP_T1	1	2	1	0.9	1	0.1	-0.27	-0.26	0	0	0	0	0	0
8/25/2024 9:30	40702	FFLD_T1	0	0	0	0	0	0	-1.25	-1.22	1	1	0	1200	1200	0
8/25/2024 9:32	43202	MVIL_T2	0	0	0	0	0	0	-0.37	-0.92	0	0	0	0	0	0
8/25/2024 9:33	55001	NEWP_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/25/2024 9:33	55002	NEWP_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
8/25/2024 9:34	55002	NEWP_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
8/25/2024 9:34	55001	NEWP_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/25/2024 9:35	43202	MVIL_T2	0	0	0	0	0	0	-0.37	-0.92	0	0	0	0	0	0
8/25/2024 9:35	56501	ROCK_T2	2	1	-1	0.45	0.4	-0.05	-1.14	-1.12	0	0	0	0	0	0
8/25/2024 9:36	56501	ROCK_T2	2	1	-1	0.45	0.4	-0.05	-1.14	-1.12	0	0	0	0	0	0
8/25/2024 9:36	42201	SHEN_T2	0	0	0	0	0	0	0.7	0.71	0	0	0	0	0	0
8/25/2024 9:41	10504	CRAC_T1	0	0	0	0	0	0	-0.08	-0.11	0	0	0	0	0	0
8/25/2024 9:42	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/25/2024 9:42	29402	BELT_T1	3	5	2	3.3	2.04	-1.26	0	0	0	0	0	0	0	0
8/25/2024 9:43	63501	HEID_TBK1-2	57	57	0	1.49	1.42	-0.07	-0.22	-0.21	1	1	0	900	900	0
8/25/2024 9:45	63501	HEID_TBK1-2	57	56	-1	1.44	1.58	0.14	-0.44	-0.42	2	2	0	1800	1800	0
8/25/2024 9:45	48302	ORWI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
8/25/2024 9:46	45802	HEGI_T2	12	21	9	0.35	0.39	0.04	0.77	0.82	0	0	0	0	0	0
8/25/2024 9:46	54506	ENOL_T2	0	0	0	0	0	0	0.21	0.28	1	1	0	600	600	0
8/25/2024 9:47	63501	HEID_TBK1-2	57	56	-1	1.44	1.58	0.14	-0.22	-0.21	1	1	0	900	900	0
8/25/2024 9:47	45802	HEGI_T2	12	21	9	0.35	0.39	0.04	0.77	0.82	0	0	0	0	0	0
8/25/2024 9:48	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 9:48	63501	HEID_TBK1-2	57	56	-1	1.44	1.58	0.14	-0.22	-0.21	1	1	0	900	900	0
8/25/2024 9:51	60502	NMAN_T2	0	0	0	0	0	0	-0.04	-0.01	0	0	0	0	0	0
8/25/2024 9:51	57401	SPAN_T1	0	1	1	0	0	0	-1.02	-1.04	2	2	0	1200	1200	0
8/25/2024 9:53	65901	SAKR_T2	1	1	0	8.2	8.1	-0.1	0	0	0	0	0	0	0	0
8/25/2024 9:53	65904	SAKR_T2	0	0	0	0	0	0	-2.05	-2.05	3	3	0	1500	1500	0
8/25/2024 9:53	57401	SPAN_T1	0	1	1	0	0	0	-1.04	-1.19	2	2	0	1200	1200	0
8/25/2024 9:54	14303	SUMN_T1	3	3	0	7.53	7.23	-0.3	0	0	0	0	0	0	0	0
8/25/2024 9:54	14308	SUMN_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
8/25/2024 9:54	65901	SAKR_T2	1	1	0	8.2	8.1	-0.1	-1.29	-1.2	2	2	0	1500	1500	0
8/25/2024 9:54	14301	SUMN_T1	9	3	-6	1.1	0	-1.1	0	0	0	0	0	0	0	0
8/25/2024 9:54	14702	TREX_T2	0	0	0	0	0	0	0.64	0.68	0	0	0	0	0	0
8/25/2024 9:54	57401	SPAN_T1	0	1	1	0	0	0	-0.52	-0.6	1	1	0	600	600	0
8/25/2024 9:55	14702	TREX_T2	0	0	0	0	0	0	0.64	0.68	0	0	0	0	0	0
8/25/2024 9:57	10801	CHHI_T1	0	2	2	0	0.15	0.15	-1.09	-1.03	2	2	0	1500	1500	0
8/25/2024 9:57	61301	EARL_T1	0	0	0	0	0	0	-1.07	-1.05	2	2	0	1800	1800	0
8/25/2024 9:58	29402	BELT_T1	2	22	20	4.65	0.7	-3.95	0	0	0	0	0	0	0	0
8/25/2024 10:00	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.43	0.48	0	0	0	0	0	0
8/25/2024 10:00	59003	MIFF_T1	1	0	-1	0.2	0	-0.2	-0.62	-0.61	0	0	0	0	0	0
8/25/2024 10:00	11103	EGYP_T1	0	0	0	0	0	0	-0.81	-0.78	0	0	0	0	0	0
8/25/2024 10:00	65207	PRIN_T4	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/25/2024 10:00	13503	MCMI_T2	7	188	181	0.53	0.38	-0.15	-2.54	-2.45	0	0	0	0	0	0
8/25/2024 10:00	43202	MVIL_T2	0	0	0	0	0	0	-0.93	-0.9	0	0	0	0	0	0
8/25/2024 10:00	46502	LOHA_T1	0	0	0	0	0	0	-2.44	-2.5	2	2	0	2400	2400	0
8/25/2024 10:00	45902	AUBU_T1	1	2	1	1.1	0.95	-0.15	-0.47	-0.44	0	0	0	0	0	0
8/25/2024 10:00	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 10:00	65901	SAKR_T2	1	1	0	8.1	7.7	-0.4	-1.29	-1.2	2	2	0	1500	1500	0
8/25/2024 10:00	67503	WEWI_T2	1	1	0	5.8	5.6	-0.2	0.07	0.09	0	0	0	0	0	0
8/25/2024 10:00	28102	TWLA_T2	10	1	-9	0.31	0.2	-0.11	0.24	0.23	0	0	0	0	0	0
8/25/2024 10:00	52004	LING_T2	2	2	0	4	4.1	0.1	0.19	0.17	0	0	0	0	0	0
8/25/2024 10:00	48302	ORWI_T2	1	2	1	0.4	0.4	0	-0.45	-0.55	0	0	0	0	0	0
8/25/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
8/25/2024 10:00	65904	SAKR_T2	0	0	0	0	0	0	-2.05	-2.05	3	3	0	1500	1500	0
8/25/2024 10:00	46501	LOHA_T1	1	1	0	1.8	0	-1.8	0	0	0	0	0	0	0	0
8/25/2024 10:00	59002	MIFF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 10:00	11102	EGYP_T1	2	1	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/25/2024 10:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 10:06	58706	ROSE_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
8/25/2024 10:06	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 10:06	45902	AUBU_T1	1	2	1	1.1	0.95	-0.15	-0.44	-0.51	0	0	0	0	0	0
8/25/2024 10:06	58705	ROSE_T2	5	5	0	1.44	1.44	0	0	0	0	0	0	0	0	0
8/25/2024 10:06	58702	ROSE_T2	0	0	0	0	0	0	-1.21	-1.19	0	0	0	0	0	0
8/25/2024 10:08	20403	ASHF_T2	0	0	0	0	0	0	0.89	0.95	0	0	0	0	0	0
8/25/2024 10:08	43105	SMIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/25/2024 10:08	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/25/2024 10:08	20402	ASHF_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/25/2024 10:08	20401	ASHF_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/25/2024 10:08	43103	SMIL_T2	0	0	0	0	0	0	-1.91	-1.95	0	0	0	0	0	0
8/25/2024 10:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 10:09	43105	SMIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/25/2024 10:09	44301	BEAV_T2	1	2	1	1.1	0.65	-0.45	0	0	0	0	0	0	0	0
8/25/2024 10:09	57401	SPAN_T1	1	1	0	0.7	0	-0.7	-1.19	-1.07	2	2	0	1200	1200	0
8/25/2024 10:09	29402	BELT_T1	5	24	19	2.04	0.68	-1.36	0	0	0	0	0	0	0	0
8/25/2024 10:09	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/25/2024 10:09	67203	TEHI_T1	0	0	0	0	0	0	1.05	1.06	1	1	0	900	900	0
8/25/2024 10:09	46004	BERW_T2	0	0	0	0	0	0	-0.5	-0.47	0	0	0	0	0	0
8/25/2024 10:09	43103	SMIL_T2	0	0	0	0	0	0	-1.91	-1.95	0	0	0	0	0	0
8/25/2024 10:10	46204	DANV_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/25/2024 10:10	20402	ASHF_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
8/25/2024 10:10	57401	SPAN_T1	1	0	-1	0.7	0	-0.7	-0.6	-0.53	1	1	0	600	600	0
8/25/2024 10:10	46203	DANV_T2	1	1	0	7	6.9	-0.1	-1.82	-1.79	0	0	0	0	0	0
8/25/2024 10:10	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 10:10	46206	DANV_T2	4	3	-1	0.58	0.7	0.12	0	0	0	0	0	0	0	0
8/25/2024 10:10	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 10:10	14702	TREX_T2	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
8/25/2024 10:10	20403	ASHF_T2	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
8/25/2024 10:10	20401	ASHF_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/25/2024 10:11	46204	DANV_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/25/2024 10:11	46203	DANV_T2	1	1	0	7	6.9	-0.1	-1.82	-1.79	0	0	0	0	0	0
8/25/2024 10:11	14702	TREX_T2	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
8/25/2024 10:11	46206	DANV_T2	4	3	-1	0.58	0.7	0.12	0	0	0	0	0	0	0	0
8/25/2024 10:11	44301	BEAV_T2	1	2	1	1.1	0.65	-0.45	-1.71	-1.72	2	2	0	1200	1200	0
8/25/2024 10:13	29402	BELT_T1	5	24	19	2.04	0.68	-1.36	0	0	0	0	0	0	0	0
8/25/2024 10:13	44801	EDAN_T2	12	14	2	0.37	0.34	-0.03	-1.49	-1.51	0	0	0	0	0	0
8/25/2024 10:13	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/25/2024 10:13	45902	AUBU_T1	1	2	1	1.1	0.95	-0.15	-0.44	-0.51	0	0	0	0	0	0
8/25/2024 10:14	46206	DANV_T2	4	3	-1	0.58	0.7	0.12	0	0	0	0	0	0	0	0
8/25/2024 10:14	46204	DANV_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/25/2024 10:14	46203	DANV_T2	1	1	0	7	6.9	-0.1	-1.82	-1.79	0	0	0	0	0	0
8/25/2024 10:15	46203	DANV_T2	1	1	0	6.9	6.9	0	-3.64	-3.58	0	0	0	0	0	0
8/25/2024 10:15	46206	DANV_T2	3	1	-2	0.3	0.9	0.6	0	0	0	0	0	0	0	0
8/25/2024 10:15	45901	AUBU_T1	0	0	0	0	0	0	2.07	2.06	0	0	0	0	0	0
8/25/2024 10:15	45501	DERR_T2	0	0	0	0	0	0	-0.88	-0.81	4	4	0	3600	3600	0
8/25/2024 10:15	63403	HONY_T2	0	0	0	0	0	0	-0.39	-0.37	1	1	0	600	600	0
8/25/2024 10:15	45902	AUBU_T1	1	2	1	1.7	0.95	-0.75	0	0	0	0	0	0	0	0
8/25/2024 10:16	25502	MADI_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/25/2024 10:16	10801	CHHI_T1	2	3	1	0.15	0.3	0.15	-1.03	-1	2	2	0	1500	1500	0
8/25/2024 10:16	25503	MADI_T1	9	3	-6	0.16	0.2	0.04	-0.75	-0.76	0	0	0	0	0	0
8/25/2024 10:16	64202	KINZ_T1	1	0	-1	1.8	0	-1.8	0	0	0	0	0	0	0	0
8/25/2024 10:16	64204	KINZ_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
8/25/2024 10:16	40101	HUNT_T2	0	7	7	0	0.15	0.15	-0.57	-0.49	0	0	0	0	0	0
8/25/2024 10:16	64201	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/25/2024 10:16	25501	MADI_T1	4	4	0	0.68	0.68	0	0	0	0	0	0	0	0	0
8/25/2024 10:16	64203	KINZ_T1	0	0	0	0	0	0	0.33	0.44	0	0	0	0	0	0
8/25/2024 10:17	25402	LAHA_T2	0	0	0	0	0	0	-0.42	-0.32	0	0	0	0	0	0
8/25/2024 10:17	12801	MICK_T1	0	0	0	0	0	0	-0.91	-0.84	1	1	0	600	600	0
8/25/2024 10:17	20601	GRWO_T2	0	3	3	0	0.2	0.2	0.71	0.7	0	0	0	0	0	0
8/25/2024 10:18	45802	HEGI_T2	11	13	2	0.34	0.35	0.01	0.87	0.88	0	0	0	0	0	0
8/25/2024 10:19	60504	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/25/2024 10:19	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 10:19	25402	LAHA_T2	0	0	0	0	0	0	-0.42	-0.32	0	0	0	0	0	0
8/25/2024 10:19	58202	NEWV_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
8/25/2024 10:19	45802	HEGI_T2	11	13	2	0.34	0.35	0.01	0.87	0.88	0	0	0	0	0	0
8/25/2024 10:20	41702	LOGA_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
8/25/2024 10:20	64101	REFR_T1	0	0	0	0	0	0	0.19	0.22	0	0	0	0	0	0
8/25/2024 10:21	60502	NMAN_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
8/25/2024 10:21	64101	REFR_T1	0	0	0	0	0	0	0.22	0.28	0	0	0	0	0	0
8/25/2024 10:21	15203	SFAR_T2	2	1	-1	0.3	0.3	0	-0.84	-0.82	0	0	0	0	0	0
8/25/2024 10:21	60504	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/25/2024 10:22	64101	REFR_T1	0	0	0	0	0	0	0.44	0.56	0	0	0	0	0	0
8/25/2024 10:22	56501	ROCK_T2	2	1	-1	0.6	0.8	0.2	-1.03	-1.03	0	0	0	0	0	0
8/25/2024 10:22	48302	ORWI_T2	2	2	0	0.4	0.35	-0.05	-0.54	-0.44	0	0	0	0	0	0
8/25/2024 10:22	60504	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/25/2024 10:22	60502	NMAN_T2	0	0	0	0	0	0	-0.02	-0.11	0	0	0	0	0	0
8/25/2024 10:23	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 10:23	55002	NEWP_T1	1	1	0	1.4	1.9	0.5	0	0	0	0	0	0	0	0
8/25/2024 10:23	20402	ASHF_T2	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
8/25/2024 10:23	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 10:23	13905	SEID_T1	0	0	0	0	0	0	-0.75	-0.69	1	1	0	1200	1200	0
8/25/2024 10:23	55001	NEWP_T1	0	0	0	0	0	0	-0.05	-0.26	0	0	0	0	0	0
8/25/2024 10:23	20403	ASHF_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/25/2024 10:23	56501	ROCK_T2	2	1	-1	0.6	0.8	0.2	-1.03	-1.03	0	0	0	0	0	0
8/25/2024 10:23	20401	ASHF_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/25/2024 10:23	57401	SPAN_T1	0	1	1	0	1	1	-1.07	-0.78	2	2	0	1200	1200	0
8/25/2024 10:24	15203	SFAR_T2	2	1	-1	0.3	0.3	0	-0.84	-0.82	0	0	0	0	0	0
8/25/2024 10:24	66502	SMAN_T2	0	0	0	0	0	0	0.01	-0.02	0	0	0	0	0	0
8/25/2024 10:24	57101	SPHI_T2	6	6	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
8/25/2024 10:24	64101	REFR_T1	0	0	0	0	0	0	0.44	0.56	0	0	0	0	0	0
8/25/2024 10:24	57106	SPHI_T2	2	3	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
8/25/2024 10:24	66505	SMAN_T2	0	0	0	0	0	0	0.23	0.04	3	3	0	1700	2100	400
8/25/2024 10:24	57104	SPHI_T2	0	0	0	0	0	0	-1.68	-1.57	1	1	0	900	900	0
8/25/2024 10:25	67503	WEWI_T2	1	1	0	5.6	5.5	-0.1	0.08	0.1	0	0	0	0	0	0
8/25/2024 10:25	64101	REFR_T1	0	0	0	0	0	0	0.66	0.84	0	0	0	0	0	0
8/25/2024 10:25	15203	SFAR_T2	2	1	-1	0.3	0.3	0	-0.84	-0.82	0	0	0	0	0	0
8/25/2024 10:27	67503	WEWI_T2	1	1	0	5.6	5.5	-0.1	0.08	0.1	0	0	0	0	0	0
8/25/2024 10:27	45902	AUBU_T1	1	2	1	1.7	0.95	-0.75	-0.51	-0.5	0	0	0	0	0	0
8/25/2024 10:27	11102	EGYP_T1	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
8/25/2024 10:27	11103	EGYP_T1	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
8/25/2024 10:27	12302	LANA_T2	0	0	0	0	0	0	-1.31	-1.26	2	2	0	1500	1500	0
8/25/2024 10:28	54201	PENN_T1	3	3	0	0.7	0.83	0.13	-0.73	-0.7	0	0	0	0	0	0
8/25/2024 10:28	54203	PENN_T1	2	4	2	0.1	0.38	0.28	0	0	0	0	0	0	0	0
8/25/2024 10:28	40101	HUNT_T2	0	7	7	0	0.15	0.15	0	0	0	0	0	0	0	0
8/25/2024 10:28	45501	DERR_T2	0	0	0	0	0	0	-0.4	-0.39	2	2	0	1800	1800	0
8/25/2024 10:29	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 10:29	41001	LAUR_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/25/2024 10:29	40901	JESH_T1	1	1	0	2	1.3	-0.7	0	0	0	0	0	0	0	0
8/25/2024 10:29	10805	CHHI_T2	1	1	0	8.4	8.5	0.1	-0.8	-0.7	0	0	0	0	0	0
8/25/2024 10:29	41002	LAUR_T2	1	2	1	0.9	1.1	0.2	-1.14	-1.11	0	0	0	0	0	0
8/25/2024 10:30	10805	CHHI_T2	1	3	2	8.5	8.6	0.1	-0.8	-0.7	0	0	0	0	0	0
8/25/2024 10:30	40902	JESH_T1	0	0	0	0	0	0	-1.92	-1.91	2	2	0	1200	1200	0
8/25/2024 10:30	40901	JESH_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
8/25/2024 10:31	22803	HAUT_T2	0	17	17	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 10:31	22805	HAUT_T2	0	0	0	0	0	0	-1.53	-1.53	1	1	0	1200	1200	0
8/25/2024 10:31	40902	JESH_T1	0	0	0	0	0	0	-1.92	-1.91	2	2	0	1200	1200	0
8/25/2024 10:31	40901	JESH_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
8/25/2024 10:32	48302	ORWI_T2	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
8/25/2024 10:33	65205	PRIN_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
8/25/2024 10:34	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 10:35	58402	MORO_T1	1	0	-1	0.7	0	-0.7	-0.3	-0.26	2	2	0	1500	1500	0
8/25/2024 10:36	56501	ROCK_T2	1	1	0	0.8	1.1	0.3	-1.03	-1.03	0	0	0	0	0	0
8/25/2024 10:36	55001	NEWP_T1	0	0	0	0	0	0	-0.05	-0.26	0	0	0	0	0	0
8/25/2024 10:36	55002	NEWP_T1	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
8/25/2024 10:37	56501	ROCK_T2	1	1	0	0.8	1.1	0.3	-1.03	-0.96	0	0	0	0	0	0
8/25/2024 10:37	59201	THOM_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/25/2024 10:37	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 10:38	56501	ROCK_T2	1	1	0	0.8	1.1	0.3	-1.03	-0.96	0	0	0	0	0	0
8/25/2024 10:39	55002	NEWP_T1	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
8/25/2024 10:39	16101	BING_T2	0	0	0	0	0	0	0.69	0.74	0	0	0	0	0	0
8/25/2024 10:39	16102	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/25/2024 10:39	55001	NEWP_T1	0	0	0	0	0	0	-0.26	-0.61	0	1	1	0	600	600
8/25/2024 10:40	46203	DANV_T2	1	1	0	6.9	6.7	-0.2	-1.8	-1.75	0	0	0	0	0	0
8/25/2024 10:40	16102	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/25/2024 10:40	16103	BING_T2	0	0	0	0	0	0	-1.16	-1.11	1	1	0	900	900	0
8/25/2024 10:40	56501	ROCK_T2	1	1	0	0.8	1.1	0.3	-1.03	-0.96	0	0	0	0	0	0
8/25/2024 10:40	46206	DANV_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
8/25/2024 10:41	42201	SHEN_T2	0	0	0	0	0	0	0.75	0.84	0	0	0	0	0	0
8/25/2024 10:42	44801	EDAN_T2	13	8	-5	0.35	0.51	0.16	-1.4	-1.44	0	0	0	0	0	0
8/25/2024 10:44	10801	CHHI_T1	3	5	2	0.3	0.36	0.06	-0.99	-1.54	2	3	1	1500	2100	600
8/25/2024 10:44	10602	BLGL_T2	0	0	0	0	0	0	0.39	0.43	0	0	0	0	0	0
8/25/2024 10:45	11507	FREE_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
8/25/2024 10:45	53601	DALM_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/25/2024 10:50	56501	ROCK_T2	1	2	1	1.1	1.1	0	0	0	0	0	0	0	0	0
8/25/2024 10:50	44203	POIN_T2	2	5	3	1.85	1.28	-0.57	0	0	0	0	0	0	0	0
8/25/2024 10:50	41902	REED_T1	3	13	10	0.37	0.73	0.36	0.55	0.56	0	0	0	0	0	0
8/25/2024 10:50	56504	ROCK_T2	0	0	0	0	0	0	0.01	0.11	0	0	0	0	0	0
8/25/2024 10:50	44202	POIN_T2	1	1	0	4.4	3.9	-0.5	-0.79	-0.81	1	1	0	1200	1200	0
8/25/2024 10:51	15702	TANN_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
8/25/2024 10:51	15703	TANN_T2	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
8/25/2024 10:51	41902	REED_T1	3	13	10	0.37	0.73	0.36	0.28	0.33	0	0	0	0	0	0
8/25/2024 10:52	42301	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 10:52	42302	MOWR_T2	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
8/25/2024 10:52	65001	NEFF_T2	0	0	0	0	0	0	-0.91	-0.81	1	1	0	1200	1200	0
8/25/2024 10:54	20403	ASHF_T2	0	0	0	0	0	0	0.5	0.55	0	0	0	0	0	0
8/25/2024 10:54	20401	ASHF_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
8/25/2024 10:54	67605	WARW_T1	1	1	0	0.4	0.2	-0.2	-1.92	-1.76	0	0	0	0	0	0
8/25/2024 10:55	42801	SELI_T1	0	0	0	0	0	0	-1.42	-1.37	1	1	0	1200	1200	0
8/25/2024 10:55	67605	WARW_T1	1	1	0	0.4	0.2	-0.2	-0.96	-0.88	0	0	0	0	0	0
8/25/2024 10:56	15703	TANN_T2	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
8/25/2024 10:56	67605	WARW_T1	1	1	0	0.4	0.2	-0.2	-1.92	-1.76	0	0	0	0	0	0
8/25/2024 10:56	15702	TANN_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
8/25/2024 10:57	67605	WARW_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/25/2024 10:57	67603	WARW_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
8/25/2024 11:00	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
8/25/2024 11:00	45802	HEGI_T2	45	48	3	0.83	2.44	1.61	0.63	0.04	0	0	0	0	0	0
8/25/2024 11:01	45802	HEGI_T2	45	48	3	0.83	2.44	1.61	0.63	0.04	0	0	0	0	0	0
8/25/2024 11:02	52002	LING_T2	0	0	0	0	0	0	0.37	0.42	0	0	0	0	0	0
8/25/2024 11:02	52004	LING_T2	2	2	0	4	3.7	-0.3	0	0	0	0	0	0	0	0
8/25/2024 11:02	40101	HUNT_T2	28	104	76	0.55	0.5	-0.05	-0.48	-0.51	0	0	0	0	0	0
8/25/2024 11:06	52004	LING_T2	2	2	0	4	3.7	-0.3	0	0	0	0	0	0	0	0
8/25/2024 11:06	52002	LING_T2	0	0	0	0	0	0	0.37	0.42	0	0	0	0	0	0
8/25/2024 11:06	42802	SELI_T1	0	0	0	0	0	0	-1.1	-1.1	1	1	0	900	900	0
8/25/2024 11:07	64101	REFR_T1	0	9	9	0	0	0	1.21	1.25	0	0	0	0	0	0
8/25/2024 11:07	66504	SMAN_T2	0	0	0	0	0	0	-2.28	-2.39	2	2	0	2400	2400	0
8/25/2024 11:07	42802	SELI_T1	0	0	0	0	0	0	-1.1	-1.1	1	1	0	900	900	0
8/25/2024 11:08	66504	SMAN_T2	0	0	0	0	0	0	-1.14	-1.19	1	1	0	1200	1200	0
8/25/2024 11:09	64101	REFR_T1	0	9	9	0	0	0	0.61	0.62	0	0	0	0	0	0
8/25/2024 11:10	64101	REFR_T1	0	9	9	0	0	0	0.3	0.31	0	0	0	0	0	0
8/25/2024 11:11	64101	REFR_T1	0	9	9	0	0	0	0.61	0.62	0	0	0	0	0	0
8/25/2024 11:11	42802	SELI_T1	0	0	0	0	0	0	-1.1	-1.1	1	1	0	900	900	0
8/25/2024 11:11	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 11:11	53601	DALM_T2	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
8/25/2024 11:12	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 11:12	64101	REFR_T1	0	9	9	0	0	0	0.3	0.31	0	0	0	0	0	0
8/25/2024 11:13	44801	EDAN_T2	6	6	0	0.55	0.65	0.1	-2.89	-2.94	0	0	0	0	0	0
8/25/2024 11:13	63302	GREE_T1	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
8/25/2024 11:14	67605	WARW_T1	1	1	0	0.2	0.1	-0.1	-0.88	-0.86	0	0	0	0	0	0
8/25/2024 11:16	44801	EDAN_T2	4	7	3	0.6	0.86	0.26	-1.44	-1.47	0	0	0	0	0	0
8/25/2024 11:16	52002	LING_T2	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
8/25/2024 11:16	52004	LING_T2	2	2	0	3.7	3.8	0.1	0	0	0	0	0	0	0	0
8/25/2024 11:17	12701	MACU_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
8/25/2024 11:18	52002	LING_T2	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
8/25/2024 11:18	44801	EDAN_T2	4	7	3	0.6	0.86	0.26	-1.44	-1.47	0	0	0	0	0	0
8/25/2024 11:18	52004	LING_T2	2	2	0	3.7	3.8	0.1	0	0	0	0	0	0	0	0
8/25/2024 11:20	43202	MVIL_T2	3	4	1	0.63	0	-0.63	-0.87	-0.88	0	0	0	0	0	0
8/25/2024 11:20	43201	MVIL_T2	3	3	0	0.73	0.1	-0.63	0	0	0	0	0	0	0	0
8/25/2024 11:21	55408	SHER_T2	2	3	1	0.65	0.65	0	-0.94	-0.94	1	1	0	1200	1200	0
8/25/2024 11:22	56501	ROCK_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
8/25/2024 11:22	42802	SELI_T1	0	0	0	0	0	0	-1.1	-1.01	1	1	0	900	900	0
8/25/2024 11:22	56504	ROCK_T2	0	0	0	0	0	0	0.16	-1.64	0	0	0	0	0	0
8/25/2024 11:23	42802	SELI_T1	0	0	0	0	0	0	-1.1	-1.01	1	1	0	900	900	0
8/25/2024 11:23	43201	MVIL_T2	3	3	0	0.73	0.1	-0.63	0	0	0	0	0	0	0	0
8/25/2024 11:23	56504	ROCK_T2	0	0	0	0	0	0	0.16	-1.64	0	0	0	0	0	0
8/25/2024 11:23	43202	MVIL_T2	3	4	1	0.63	0	-0.63	-0.88	-0.85	0	0	0	0	0	0
8/25/2024 11:23	56501	ROCK_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
8/25/2024 11:24	56501	ROCK_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
8/25/2024 11:24	56504	ROCK_T2	0	0	0	0	0	0	0.08	-0.82	0	0	0	0	0	0
8/25/2024 11:25	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/25/2024 11:25	29402	BELT_T1	0	109	109	0	1.19	1.19	0	0	0	0	0	0	0	0
8/25/2024 11:25	42802	SELI_T1	0	0	0	0	0	0	-1.1	-1.01	1	1	0	900	900	0
8/25/2024 11:26	14702	TREX_T2	0	0	0	0	0	0	0.84	0.86	0	0	0	0	0	0
8/25/2024 11:26	29402	BELT_T1	0	109	109	0	1.19	1.19	0	0	0	0	0	0	0	0
8/25/2024 11:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/25/2024 11:26	42802	SELI_T1	0	0	0	0	0	0	-1.1	-1.01	1	1	0	900	900	0
8/25/2024 11:26	60101	COCA_T1	0	1	1	0	0.1	0.1	1.51	1.47	0	0	0	0	0	0
8/25/2024 11:29	21501	CEAV_T2	0	0	0	0	0	0	0.86	0.86	1	1	0	1200	1200	0
8/25/2024 11:31	53801	MBRG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 11:31	53802	MBRG_T2	0	0	0	0	0	0	-0.85	-0.92	0	0	0	0	0	0
8/25/2024 11:33	12701	MACU_T1	0	1	1	0	0	0	0.29	0.31	0	0	0	0	0	0
8/25/2024 11:36	48302	ORWI_T2	1	1	0	0.4	0.3	-0.1	-0.35	-0.32	0	0	0	0	0	0
8/25/2024 11:39	42201	SHEN_T2	0	0	0	0	0	0	0.86	0.85	0	0	0	0	0	0
8/25/2024 11:40	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 11:41	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/25/2024 11:41	24102	EHAZ_T1	1	1	0	0.4	0.8	0.4	0.01	0	0	0	0	0	0	0
8/25/2024 11:41	24104	EHAZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/25/2024 11:41	24101	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 11:41	24105	EHAZ_T1	4	4	0	7.05	7.3	0.25	0	0	0	0	0	0	0	0
8/25/2024 11:42	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/25/2024 11:42	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 11:42	11601	CEAL_T1	1	1	0	0.2	0.1	-0.1	0	0	1	1	0	1200	1200	0
8/25/2024 11:42	60101	COCA_T1	1	1	0	0.1	0.1	0	0.73	0.89	0	0	0	0	0	0
8/25/2024 11:42	52202	DEVO_T2	0	0	0	0	0	0	-0.95	-0.89	0	0	0	0	0	0
8/25/2024 11:42	52204	DEVO_T2	3	5	2	0.23	0.52	0.29	0	0	0	0	0	0	0	0
8/25/2024 11:43	52202	DEVO_T2	0	0	0	0	0	0	-0.95	-0.89	0	0	0	0	0	0
8/25/2024 11:43	52204	DEVO_T2	3	5	2	0.23	0.52	0.29	0	0	0	0	0	0	0	0
8/25/2024 11:43	60101	COCA_T1	1	1	0	0.1	0.1	0	1.47	1.79	0	0	0	0	0	0
8/25/2024 11:44	53902	HALI_T2	1	1	0	4.3	3.6	-0.7	-1.29	-1.32	0	0	0	0	0	0
8/25/2024 11:44	60101	COCA_T1	1	1	0	0.1	0.1	0	0.73	0.89	0	0	0	0	0	0
8/25/2024 11:44	44801	EDAN_T2	6	8	2	0.6	0.78	0.18	-1.36	-1.42	0	0	0	0	0	0
8/25/2024 11:45	53601	DALM_T2	3	2	-1	0.13	0	-0.13	0.02	0.06	0	0	0	0	0	0
8/25/2024 11:45	53902	HALI_T2	1	1	0	3.6	3.9	0.3	-1.94	-1.98	0	0	0	0	0	0
8/25/2024 11:45	52204	DEVO_T2	5	5	0	0.58	0.44	-0.14	0	0	0	0	0	0	0	0
8/25/2024 11:45	52202	DEVO_T2	0	0	0	0	0	0	-1.89	-1.77	0	0	0	0	0	0
8/25/2024 11:45	11804	FRAN_T1	2	2	0	0.15	0.2	0.05	0.91	0.94	0	0	0	0	0	0
8/25/2024 11:48	46803	HEPB_T2	0	0	0	0	0	0	0.63	0.72	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/25/2024 11:48	46801	HEPB_T2	0	2	2	0	1.45	1.45	0	0	0	0	0	0	0	0
8/25/2024 11:49	56501	ROCK_T2	1	2	1	1.2	0.25	-0.95	-0.87	-0.8	0	0	0	0	0	0
8/25/2024 11:49	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 11:52	55408	SHER_T2	3	2	-1	0.5	0.7	0.2	-0.94	-0.94	1	1	0	1200	1200	0
8/25/2024 11:54	64101	REFR_T1	4	7	3	0.88	0.85	-0.03	0.31	0.33	0	0	0	0	0	0
8/25/2024 11:55	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 11:56	67503	WEWI_T2	1	1	0	5	4.6	-0.4	-0.2	-0.15	0	0	0	0	0	0
8/25/2024 11:56	16302	ALPA_T2	0	1	1	0	0.1	0.1	-0.78	-0.69	0	0	0	0	0	0
8/25/2024 11:57	61501	EPET_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
8/25/2024 11:57	40201	BEGA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/25/2024 11:57	61504	EPET_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
8/25/2024 11:58	67503	WEWI_T2	1	1	0	5	4.6	-0.4	-0.2	-0.15	0	0	0	0	0	0
8/25/2024 11:58	16302	ALPA_T2	0	1	1	0	0.1	0.1	-0.78	-0.69	0	0	0	0	0	0
8/25/2024 11:59	12002	HATF_T1	0	1	1	0	0.2	0.2	-1.2	-1.14	1	1	0	1200	1200	0
8/25/2024 11:59	12001	HATF_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/25/2024 11:59	22901	HARW_T1	1	1	0	1.1	1.1	0	-0.38	-0.64	1	1	0	1200	1200	0
8/25/2024 11:59	12007	HATF_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/25/2024 11:59	53501	EVIL_T2	1	1	0	0.1	0	-0.1	-0.01	-0.01	1	1	0	600	600	0
8/25/2024 11:59	22905	HARW_T1	3	2	-1	0.23	0	-0.23	0	0	0	0	0	0	0	0
8/25/2024 11:59	22903	HARW_T1	18	30	12	0.68	0.73	0.05	0	0	0	0	0	0	0	0
8/25/2024 11:59	12006	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 12:00	53502	EVIL_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
8/25/2024 12:00	53501	EVIL_T2	1	1	0	0.8	0	-0.8	-0.01	-0.01	1	1	0	600	600	0
8/25/2024 12:00	20601	GRWO_T2	45	43	-2	0.64	0.36	-0.28	0	0	0	0	0	0	0	0
8/25/2024 12:00	20603	GRWO_T2	0	0	0	0	0	0	-0.37	-0.35	1	1	0	900	900	0
8/25/2024 12:01	46102	MACI_T1	0	0	0	0	0	0	0.89	0.91	0	0	0	0	0	0
8/25/2024 12:01	53501	EVIL_T2	1	1	0	0.8	0	-0.8	-0.01	-0.01	2	2	0	1200	1200	0
8/25/2024 12:02	22905	HARW_T1	0	16	16	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 12:02	53501	EVIL_T2	1	1	0	0.8	0	-0.8	-0.01	-0.01	1	1	0	600	600	0
8/25/2024 12:02	22903	HARW_T1	22	26	4	0.72	0.81	0.09	0	0	0	0	0	0	0	0
8/25/2024 12:02	22901	HARW_T1	1	6	5	1.1	1.2	0.1	-0.38	-0.64	1	1	0	1200	1200	0
8/25/2024 12:03	40902	JESH_T1	0	0	0	0	0	0	-1.75	-1.67	2	2	0	1200	1200	0
8/25/2024 12:03	53501	EVIL_T2	1	1	0	0.8	0	-0.8	-0.01	-0.01	1	1	0	600	600	0
8/25/2024 12:03	40901	JESH_T1	3	2	-1	1.33	1.6	0.27	0	0	0	0	0	0	0	0
8/25/2024 12:05	58101	NEKI_T1	2	2	0	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
8/25/2024 12:05	58102	NEKI_T1	1	1	0	0.7	0.3	-0.4	-1.65	-1.58	1	1	0	1200	1200	0
8/25/2024 12:10	41602	CLEV_T1	13	29	16	0.74	0.49	-0.25	0	0	1	1	0	600	600	0
8/25/2024 12:11	53501	EVIL_T2	1	1	0	0.8	0	-0.8	-0.01	-0.01	1	1	0	600	600	0
8/25/2024 12:13	11202	ELHE_T2	0	0	0	0	0	0	0.31	0.3	1	1	0	1200	1200	0
8/25/2024 12:14	10805	CHHI_T2	1	1	0	8.5	8.4	-0.1	-1.18	-1.15	1	1	0	600	600	0
8/25/2024 12:18	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 12:18	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 12:18	52403	GRPA_T2	4	12	8	1.6	0.78	-0.82	-0.31	-0.28	0	0	0	0	0	0
8/25/2024 12:18	52404	GRPA_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/25/2024 12:18	46801	HEPB_T2	2	2	0	1.45	1.35	-0.1	0.03	0.05	0	0	0	0	0	0
8/25/2024 12:18	52002	LING_T2	0	1	1	0	0	0	-0.52	-0.47	0	0	0	0	0	0
8/25/2024 12:18	52004	LING_T2	2	2	0	4	4.15	0.15	0	0	0	0	0	0	0	0
8/25/2024 12:21	52403	GRPA_T2	4	12	8	1.6	0.78	-0.82	-0.31	-0.28	0	0	0	0	0	0
8/25/2024 12:21	52404	GRPA_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/25/2024 12:21	44801	EDAN_T2	7	6	-1	0.81	0.62	-0.19	-1.38	-1.39	0	0	0	0	0	0
8/25/2024 12:21	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 12:23	41602	CLEV_T1	28	16	-12	0.6	0.43	-0.17	0	0	1	1	0	600	600	0
8/25/2024 12:23	42601	TUSC_T1	2	2	0	0.2	0.1	-0.1	-1.29	-1.36	2	2	0	1800	1800	0
8/25/2024 12:23	55101	WERT_T1	0	0	0	0	0	0	-1.48	-1.49	3	3	0	2400	2400	0
8/25/2024 12:24	41602	CLEV_T1	28	16	-12	0.6	0.43	-0.17	0	0	1	1	0	600	600	0
8/25/2024 12:25	55101	WERT_T1	0	0	0	0	0	0	-1.48	-1.49	3	3	0	2400	2400	0
8/25/2024 12:26	55101	WERT_T1	0	0	0	0	0	0	-2.96	-2.98	6	6	0	4800	4800	0
8/25/2024 12:26	51302	WIND_T2	0	0	0	0	0	0	0	0.06	0	0	0	0	0	0
8/25/2024 12:26	53601	DALM_T2	2	2	0	0.25	0.25	0	0.06	0.08	0	0	0	0	0	0
8/25/2024 12:27	61505	EPET_T1	0	0	0	0	0	0	1.05	1.08	0	0	0	0	0	0
8/25/2024 12:27	55101	WERT_T1	0	0	0	0	0	0	-1.48	-1.49	3	3	0	2400	2400	0
8/25/2024 12:28	61701	ELIZ_T1	3	5	2	0.5	0.48	-0.02	1.82	1.68	0	0	0	0	0	0
8/25/2024 12:29	53601	DALM_T2	2	2	0	0.25	0.25	0	0.06	0.08	0	0	0	0	0	0
8/25/2024 12:29	61701	ELIZ_T1	3	5	2	0.5	0.48	-0.02	1.82	1.68	0	0	0	0	0	0
8/25/2024 12:30	47002	HUGH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 12:30	47001	HUGH_T2	3	3	0	8.57	8.43	-0.14	-1.4	-1.37	1	1	0	900	900	0
8/25/2024 12:31	52403	GRPA_T2	8	15	7	1.15	0.89	-0.26	0	0	0	0	0	0	0	0
8/25/2024 12:31	47001	HUGH_T2	3	3	0	8.57	8.43	-0.14	-1.4	-1.37	1	1	0	900	900	0
8/25/2024 12:31	52401	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 12:31	61701	ELIZ_T1	5	4	-1	0.38	0.58	0.2	1.82	1.68	0	0	0	0	0	0
8/25/2024 12:31	47002	HUGH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 12:31	41002	LAUR_T2	4	4	0	0.28	0.58	0.3	-1.05	-1.03	0	0	0	0	0	0
8/25/2024 12:31	52404	GRPA_T2	0	2	2	0	0	0	0	0.1	0	0	0	0	0	0
8/25/2024 12:31	52402	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 12:32	47001	HUGH_T2	3	3	0	8.57	8.43	-0.14	-1.4	-1.37	1	1	0	900	900	0
8/25/2024 12:32	47002	HUGH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 12:34	52403	GRPA_T2	8	15	7	1.15	0.89	-0.26	-0.28	-0.3	0	0	0	0	0	0
8/25/2024 12:34	52401	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 12:34	52404	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 12:34	52402	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 12:36	64101	REFR_T1	10	10	0	0.75	1.33	0.58	0.35	0.38	0	0	0	0	0	0
8/25/2024 12:36	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/25/2024 12:39	20403	ASHF_T2	3	1	-2	0.6	0	-0.6	0.74	0.76	0	0	0	0	0	0
8/25/2024 12:39	60504	NMAN_T2	2	2	0	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
8/25/2024 12:39	20402	ASHF_T2	0	6	6	0	0.43	0.43	0	0	0	0	0	0	0	0
8/25/2024 12:39	20401	ASHF_T2	4	7	3	0.93	0.78	-0.15	0	0	0	0	0	0	0	0
8/25/2024 12:39	60502	NMAN_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/25/2024 12:40	11601	CEAL_T1	1	0	-1	0.1	0	-0.1	0	0	1	1	0	1200	1200	0
8/25/2024 12:40	11604	CEAL_T1	0	10	10	0	1	1	0	0	0	0	0	0	0	0
8/25/2024 12:41	40101	HUNT_T2	115	130	15	0.76	0.59	-0.17	-0.69	-0.67	0	0	0	0	0	0
8/25/2024 12:43	53903	HALI_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
8/25/2024 12:43	53902	HALI_T2	1	1	0	3.9	4.3	0.4	-0.57	-0.56	0	0	0	0	0	0
8/25/2024 12:43	53901	HALI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 12:44	61701	ELIZ_T1	5	4	-1	0.38	0.58	0.2	1.68	1.78	0	0	0	0	0	0
8/25/2024 12:45	52402	GRPA_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/25/2024 12:45	41501	FAIR_T2	0	0	0	0	0	0	-1	-0.98	1	1	0	600	600	0
8/25/2024 12:45	52401	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 12:45	52403	GRPA_T2	12	12	0	0.79	0.62	-0.17	-0.3	-0.25	0	0	0	0	0	0
8/25/2024 12:45	52404	GRPA_T2	2	2	0	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/25/2024 12:46	47002	HUGH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/25/2024 12:46	47001	HUGH_T2	3	3	0	8.4	8.7	0.3	-1.37	-1.38	1	1	0	900	900	0
8/25/2024 12:47	53902	HALI_T2	1	2	1	4.3	4.2	-0.1	-1.71	-1.68	0	0	0	0	0	0
8/25/2024 12:47	53903	HALI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/25/2024 12:47	40101	HUNT_T2	123	124	1	0.76	0.53	-0.23	-0.69	-0.67	0	0	0	0	0	0
8/25/2024 12:47	64902	MILL_T2	0	0	0	0	0	0	-0.67	-0.67	1	1	0	900	900	0
8/25/2024 12:47	53901	HALI_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/25/2024 12:48	53901	HALI_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/25/2024 12:48	53902	HALI_T2	1	2	1	4.3	4.2	-0.1	-0.57	-0.56	0	0	0	0	0	0
8/25/2024 12:48	53903	HALI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/25/2024 12:50	64902	MILL_T2	0	0	0	0	0	0	-0.67	-0.67	1	1	0	900	900	0
8/25/2024 12:50	55001	NEWP_T1	0	0	0	0	0	0	-0.4	-0.33	1	1	0	600	600	0
8/25/2024 12:50	55002	NEWP_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 12:51	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 12:51	66703	STRA_T1	0	0	0	0	0	0	-0.53	-0.46	0	0	0	0	0	0
8/25/2024 12:51	57401	SPAN_T1	0	3	3	0	0	0	-0.71	-0.71	1	1	0	600	600	0
8/25/2024 12:51	66701	STRA_T1	6	2	-4	0.48	0.1	-0.38	0	0	0	0	0	0	0	0
8/25/2024 12:52	66703	STRA_T1	0	0	0	0	0	0	-0.53	-0.46	0	0	0	0	0	0
8/25/2024 12:52	66701	STRA_T1	6	2	-4	0.48	0.1	-0.38	0	0	0	0	0	0	0	0
8/25/2024 12:52	44703	MUNC_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
8/25/2024 12:53	42701	AUGU_T1	4	5	1	0.48	0.43	-0.05	0	0	2	2	0	1800	1800	0
8/25/2024 12:54	42701	AUGU_T1	4	5	1	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
8/25/2024 12:55	61801	EELI_T2	1	1	0	1.2	1.4	0.2	-0.33	-0.34	1	1	0	600	600	0
8/25/2024 12:55	29402	BELT_T1	85	75	-10	0.82	0.69	-0.13	0	0	0	0	0	0	0	0
8/25/2024 12:55	55002	NEWP_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 12:55	61802	EELI_T2	8	8	0	1.35	1.69	0.34	0	0	0	0	0	0	0	0
8/25/2024 12:55	55001	NEWP_T1	0	0	0	0	0	0	-0.33	-0.35	1	1	0	600	600	0
8/25/2024 12:55	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/25/2024 12:58	53601	DALM_T2	2	0	-2	0.3	0	-0.3	0.11	0.1	0	0	0	0	0	0
8/25/2024 13:00	61701	ELIZ_T1	3	3	0	0.6	0.1	-0.5	1.78	1.84	0	0	0	0	0	0
8/25/2024 13:00	61703	ELIZ_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
8/25/2024 13:01	65401	MARI_T1	12	12	0	0.85	1.37	0.52	0	0	0	0	0	0	0	0
8/25/2024 13:01	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 13:04	44203	POIN_T2	6	5	-1	1.68	2.54	0.86	0.52	0.54	1	1	0	900	900	0
8/25/2024 13:04	44202	POIN_T2	1	1	0	5	1.9	-3.1	0	0	0	0	0	0	0	0
8/25/2024 13:05	44202	POIN_T2	1	1	0	5	1.9	-3.1	0	0	0	0	0	0	0	0
8/25/2024 13:05	44203	POIN_T2	6	5	-1	1.68	2.54	0.86	0.52	0.54	1	1	0	900	900	0
8/25/2024 13:07	57401	SPAN_T1	0	3	3	0	0	0	-0.98	-0.87	2	2	0	1200	1200	0
8/25/2024 13:08	57401	SPAN_T1	0	3	3	0	0	0	-0.49	-0.43	1	1	0	600	600	0
8/25/2024 13:09	44202	POIN_T2	1	1	0	5	1.9	-3.1	0	0	0	0	0	0	0	0
8/25/2024 13:09	44203	POIN_T2	6	5	-1	1.68	2.54	0.86	0.54	0.36	1	1	0	900	900	0
8/25/2024 13:09	57401	SPAN_T1	0	3	3	0	0	0	-0.98	-0.87	2	2	0	1200	1200	0
8/25/2024 13:11	20402	ASHF_T2	6	2	-4	0.92	0	-0.92	0	0	0	0	0	0	0	0
8/25/2024 13:11	20403	ASHF_T2	0	1	1	0	0	0	1.53	1.56	0	0	0	0	0	0
8/25/2024 13:11	20401	ASHF_T2	5	10	5	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
8/25/2024 13:13	20402	ASHF_T2	6	2	-4	0.92	0	-0.92	0	0	0	0	0	0	0	0
8/25/2024 13:13	20403	ASHF_T2	0	1	1	0	0	0	0.77	0.78	0	0	0	0	0	0
8/25/2024 13:13	20401	ASHF_T2	5	10	5	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
8/25/2024 13:13	53601	DALM_T2	0	1	1	0	0	0	0.1	0.15	0	0	0	0	0	0
8/25/2024 13:15	61703	ELIZ_T1	2	9	7	0.2	0.23	0.03	0	0	0	0	0	0	0	0
8/25/2024 13:15	61701	ELIZ_T1	3	3	0	0.37	0.5	0.13	1.84	1.83	0	0	0	0	0	0
8/25/2024 13:16	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 13:16	40902	JESH_T1	1	2	1	0.3	0	-0.3	-1.6	-1.57	2	2	0	1200	1200	0
8/25/2024 13:16	21206	ECAR_T2	37	42	5	1.02	1.54	0.52	0.29	0.38	0	0	0	0	0	0
8/25/2024 13:16	40901	JESH_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
8/25/2024 13:17	40901	JESH_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
8/25/2024 13:17	25402	LAHA_T2	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
8/25/2024 13:17	40902	JESH_T1	1	2	1	0.3	0	-0.3	-1.6	-1.57	2	2	0	1200	1200	0
8/25/2024 13:18	47802	MOCA_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
8/25/2024 13:19	58401	MORO_T1	0	0	0	0	0	0	-1.21	-2.04	2	3	1	1200	2100	900
8/25/2024 13:20	13702	SCHN_T1	0	0	0	0	0	0	0.54	0.59	0	0	0	0	0	0
8/25/2024 13:21	40602	PIGR_T1	2	1	-1	1.2	1.8	0.6	0	0	0	0	0	0	0	0
8/25/2024 13:21	58401	MORO_T1	0	0	0	0	0	0	-1.21	-2.04	2	3	1	1200	2100	900
8/25/2024 13:21	13702	SCHN_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/25/2024 13:21	63201	MGTN_T2	0	0	0	0	0	0	0.86	0.9	1	1	0	600	600	0
8/25/2024 13:21	40601	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 13:21	66701	STRA_T1	2	2	0	0.15	0	-0.15	0.55	0.55	1	1	0	600	600	0
8/25/2024 13:23	64101	REFR_T1	10	10	0	1.69	0.77	-0.92	0.88	-0.27	0	0	0	0	0	0
8/25/2024 13:24	66701	STRA_T1	2	2	0	0.15	0	-0.15	1.1	1.09	2	2	0	1200	1200	0
8/25/2024 13:25	42503	ALTA_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
8/25/2024 13:27	20402	ASHF_T2	1	5	4	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/25/2024 13:27	20403	ASHF_T2	0	1	1	0	0	0	1.56	1.72	0	0	0	0	0	0
8/25/2024 13:27	20401	ASHF_T2	7	18	11	0.63	0.78	0.15	0	0	0	0	0	0	0	0
8/25/2024 13:29	20401	ASHF_T2	7	18	11	0.63	0.78	0.15	0	0	0	0	0	0	0	0
8/25/2024 13:29	52202	DEVO_T2	0	0	0	0	0	0	-0.84	-0.81	0	0	0	0	0	0
8/25/2024 13:29	52204	DEVO_T2	6	6	0	1.12	1.45	0.33	0	0	0	0	0	0	0	0
8/25/2024 13:29	20403	ASHF_T2	0	1	1	0	0	0	0.78	0.86	0	0	0	0	0	0
8/25/2024 13:29	20402	ASHF_T2	1	5	4	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/25/2024 13:30	53601	DALM_T2	1	3	2	0.2	0.15	-0.05	0.15	0.11	0	0	0	0	0	0
8/25/2024 13:30	53903	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 13:30	52202	DEVO_T2	0	0	0	0	0	0	-0.84	-0.81	0	0	0	0	0	0
8/25/2024 13:30	53902	HALI_T2	1	1	0	3.5	3.5	0	0	0	0	0	0	0	0	0
8/25/2024 13:30	52204	DEVO_T2	6	6	0	1.6	1.17	-0.43	0	0	0	0	0	0	0	0
8/25/2024 13:30	53901	HALI_T2	0	0	0	0	0	0	-0.84	-0.81	0	0	0	0	0	0
8/25/2024 13:32	52204	DEVO_T2	6	6	0	1.6	1.17	-0.43	0	0	0	0	0	0	0	0
8/25/2024 13:32	52202	DEVO_T2	0	0	0	0	0	0	-0.84	-0.81	0	0	0	0	0	0
8/25/2024 13:33	52006	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/25/2024 13:33	52002	LING_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
8/25/2024 13:33	52004	LING_T2	2	3	1	3.8	4	0.2	0.14	0.08	0	0	0	0	0	0
8/25/2024 13:33	63602	LETO_T1	0	0	0	0	0	0	-0.31	-0.16	1	1	0	600	600	0
8/25/2024 13:35	63602	LETO_T1	0	0	0	0	0	0	-0.31	-0.16	1	1	0	600	600	0
8/25/2024 13:38	57205	ROSS_T1	0	0	0	0	0	0	-1.5	-1.55	1	1	0	900	900	0
8/25/2024 13:39	57401	SPAN_T1	0	13	13	0	0.7	0.7	-0.41	-0.2	1	1	0	600	600	0
8/25/2024 13:39	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 13:40	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 13:40	57401	SPAN_T1	0	13	13	0	0.7	0.7	-0.41	-0.2	1	1	0	600	600	0
8/25/2024 13:45	14702	TREX_T2	0	0	0	0	0	0	1.04	1.06	0	0	0	0	0	0
8/25/2024 13:45	53601	DALM_T2	3	3	0	0.2	0.1	-0.1	0.11	0.14	0	0	0	0	0	0
8/25/2024 13:46	12701	MACU_T1	0	0	0	0	0	0	-0.7	-0.76	1	1	0	1200	1200	0
8/25/2024 13:47	47101	MARL_T1	2	3	1	1.7	1.3	-0.4	-0.36	-0.39	1	0	-1	600	0	-600
8/25/2024 13:48	47101	MARL_T1	2	3	1	1.7	1.3	-0.4	-0.36	-0.39	1	0	-1	600	0	-600
8/25/2024 13:48	20601	GRWO_T2	93	92	-1	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
8/25/2024 13:48	20603	GRWO_T2	0	1	1	0	0	0	-0.3	-0.32	1	1	0	900	900	0
8/25/2024 13:49	63602	LETO_T1	0	0	0	0	0	0	-0.16	-0.25	1	1	0	600	600	0
8/25/2024 13:49	47101	MARL_T1	2	3	1	1.7	1.3	-0.4	-0.36	-0.39	1	0	-1	600	0	-600
8/25/2024 13:49	47104	MARL_T1	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
8/25/2024 13:50	47101	MARL_T1	2	3	1	1.7	1.3	-0.4	-0.36	-0.39	1	0	-1	600	0	-600
8/25/2024 13:50	12701	MACU_T1	0	0	0	0	0	0	-0.7	-0.76	1	1	0	1200	1200	0
8/25/2024 13:50	63602	LETO_T1	0	0	0	0	0	0	-0.16	-0.25	1	1	0	600	600	0
8/25/2024 13:51	47101	MARL_T1	2	3	1	1.7	1.3	-0.4	-0.39	-0.4	1	0	-1	600	0	-600
8/25/2024 13:52	44203	POIN_T2	3	6	3	0.67	0	-0.67	0.63	0.41	1	1	0	900	900	0
8/25/2024 13:52	55101	WERT_T1	0	0	0	0	0	0	-1.83	-1.89	3	3	0	2400	2400	0
8/25/2024 13:52	44202	POIN_T2	1	1	0	3.6	2.9	-0.7	0	0	0	0	0	0	0	0
8/25/2024 13:54	14404	SSLA_T1	5	9	4	0.8	1.4	0.6	0	0	0	0	0	0	0	0
8/25/2024 13:54	14402	SSLA_T1	1	3	2	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/25/2024 13:54	14401	SSLA_T1	10	15	5	0.94	1.25	0.31	0	0	0	0	0	0	0	0
8/25/2024 13:54	55101	WERT_T1	0	0	0	0	0	0	-1.83	-1.89	3	3	0	2400	2400	0
8/25/2024 13:54	14403	SSLA_T1	0	2	2	0	0.4	0.4	-0.88	-0.94	2	2	0	1200	1200	0
8/25/2024 13:55	55101	WERT_T1	0	0	0	0	0	0	-3.65	-3.77	6	6	0	4800	4800	0
8/25/2024 13:56	55101	WERT_T1	0	0	0	0	0	0	-3.65	-3.77	6	6	0	4800	4800	0
8/25/2024 13:59	61703	ELIZ_T1	9	29	20	0.24	0.46	0.22	2.57	2.53	2	2	0	2100	2100	0
8/25/2024 13:59	61701	ELIZ_T1	3	6	3	0.63	0.44	-0.19	0	0	0	0	0	0	0	0
8/25/2024 14:02	22903	HARW_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/25/2024 14:02	46504	LOHA_T1	4	4	0	0.23	0	-0.23	0	0	0	0	0	0	0	0
8/25/2024 14:02	22905	HARW_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 14:02	22901	HARW_T1	6	6	0	0.43	0.35	-0.08	-0.44	-0.67	1	1	0	1200	1200	0
8/25/2024 14:02	46501	LOHA_T1	6	8	2	0.87	0.8	-0.07	0.16	0.16	1	1	0	1200	1200	0
8/25/2024 14:03	46504	LOHA_T1	4	4	0	0.23	0	-0.23	0	0	0	0	0	0	0	0
8/25/2024 14:03	26401	INOR_T1	1	2	1	5.7	2.9	-2.8	0	0	0	0	0	0	0	0
8/25/2024 14:03	40902	JESH_T1	4	5	1	0.95	0.33	-0.62	0	0	0	0	0	0	0	0
8/25/2024 14:03	40901	JESH_T1	1	1	0	1.7	1.4	-0.3	-0.82	-0.78	2	2	0	1500	1500	0
8/25/2024 14:03	46501	LOHA_T1	6	8	2	0.87	0.8	-0.07	0.16	0.16	1	1	0	1200	1200	0
8/25/2024 14:03	26402	INOR_T1	0	0	0	0	0	0	-1.59	-1.57	1	1	0	600	600	0
8/25/2024 14:04	46504	LOHA_T1	4	4	0	0.23	0	-0.23	0	0	0	0	0	0	0	0
8/25/2024 14:04	46501	LOHA_T1	6	8	2	0.87	0.8	-0.07	0.16	0.16	1	1	0	1200	1200	0
8/25/2024 14:05	47802	MOCA_T2	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
8/25/2024 14:05	53501	EVIL_T2	0	1	1	0	0	0	-0.01	-0.01	1	1	0	600	600	0
8/25/2024 14:06	14403	SSLA_T1	1	1	0	0.1	0.4	0.3	-0.94	-0.89	2	2	0	1200	1200	0
8/25/2024 14:06	14404	SSLA_T1	2	8	6	0.85	0.54	-0.31	0	0	0	0	0	0	0	0
8/25/2024 14:06	14402	SSLA_T1	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
8/25/2024 14:06	14401	SSLA_T1	15	9	-6	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
8/25/2024 14:07	14402	SSLA_T1	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
8/25/2024 14:07	14403	SSLA_T1	1	1	0	0.1	0.4	0.3	-0.94	-0.89	2	2	0	1200	1200	0
8/25/2024 14:07	14404	SSLA_T1	2	8	6	0.85	0.54	-0.31	0	0	0	0	0	0	0	0
8/25/2024 14:07	14401	SSLA_T1	15	9	-6	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
8/25/2024 14:13	24105	EHAZ_T1	4	4	0	7.05	6.78	-0.27	0	0	0	0	0	0	0	0
8/25/2024 14:13	24102	EHAZ_T1	0	1	1	0	0	0	0.04	0.05	0	0	0	0	0	0
8/25/2024 14:13	24101	EHAZ_T1	8	4	-4	0.69	0.4	-0.29	0	0	0	0	0	0	0	0
8/25/2024 14:15	61703	ELIZ_T1	28	11	-17	0.4	0.25	-0.15	-5.07	-5.09	4	4	0	4200	4200	0
8/25/2024 14:15	63404	HONY_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 14:15	61701	ELIZ_T1	6	3	-3	0.62	0.35	-0.27	0	0	0	0	0	0	0	0
8/25/2024 14:15	63401	HONY_T1	0	0	0	0	0	0	0.17	0.24	1	1	0	600	600	0
8/25/2024 14:16	61703	ELIZ_T1	28	11	-17	0.4	0.25	-0.15	-2.53	-2.55	2	2	0	2100	2100	0
8/25/2024 14:16	63802	HEMP_T1	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
8/25/2024 14:16	63803	HEMP_T1	1	0	-1	2.1	0	-2.1	0	0	0	0	0	0	0	0
8/25/2024 14:16	61701	ELIZ_T1	6	3	-3	0.62	0.35	-0.27	0	0	0	0	0	0	0	0
8/25/2024 14:16	63804	HEMP_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
8/25/2024 14:17	61701	ELIZ_T1	6	3	-3	0.62	0.35	-0.27	0	0	0	0	0	0	0	0
8/25/2024 14:17	61703	ELIZ_T1	28	11	-17	0.4	0.25	-0.15	-2.53	-2.55	2	2	0	2100	2100	0
8/25/2024 14:18	63401	HONY_T1	0	0	0	0	0	0	0.17	0.24	1	1	0	600	600	0
8/25/2024 14:18	63404	HONY_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 14:20	63203	MGTN_T1	0	0	0	0	0	0	-0.62	-0.6	2	2	0	1200	1200	0
8/25/2024 14:20	52006	LING_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/25/2024 14:20	52004	LING_T2	2	3	1	3.75	3.75	0	0.16	0.16	0	0	0	0	0	0
8/25/2024 14:20	55002	NEWP_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
8/25/2024 14:20	55001	NEWP_T1	2	18	16	0.2	0.2	0	-0.22	-0.22	1	1	0	600	600	0
8/25/2024 14:22	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 14:22	65604	QVIL_T2	1	6	5	0.2	0.5	0.3	0.72	0.73	0	0	0	0	0	0
8/25/2024 14:24	65604	QVIL_T2	1	6	5	0.2	0.5	0.3	0.72	0.73	0	0	0	0	0	0
8/25/2024 14:24	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 14:26	46001	BERW_T1	1	0	-1	0.4	0	-0.4	-2.52	-2.5	0	0	0	0	0	0
8/25/2024 14:27	10805	CHHI_T2	13	7	-6	1.48	2.52	1.04	-0.79	-0.88	1	1	0	600	600	0
8/25/2024 14:28	53601	DALM_T2	2	3	1	0.15	0.5	0.35	0.13	0.07	0	0	0	0	0	0
8/25/2024 14:29	13702	SCHN_T1	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
8/25/2024 14:31	42902	MIDD_T2	1	5	4	2.4	2.7	0.3	-0.98	-0.97	1	1	0	600	600	0
8/25/2024 14:31	42901	MIDD_T2	2	1	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/25/2024 14:32	42902	MIDD_T2	1	5	4	2.4	2.7	0.3	-0.98	-0.97	1	1	0	600	600	0
8/25/2024 14:32	45902	AUBU_T1	1	1	0	0.5	0.3	-0.2	-0.86	-0.83	1	1	0	600	600	0
8/25/2024 14:32	42901	MIDD_T2	2	1	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/25/2024 14:34	42902	MIDD_T2	1	5	4	2.4	2.7	0.3	-0.98	-0.97	1	1	0	600	600	0
8/25/2024 14:34	42901	MIDD_T2	2	1	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/25/2024 14:34	26402	INOR_T1	0	0	0	0	0	0	-1.58	-1.57	1	1	0	600	600	0
8/25/2024 14:34	26401	INOR_T1	2	3	1	2.85	5.2	2.35	0	0	0	0	0	0	0	0
8/25/2024 14:36	66701	STRA_T1	3	0	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
8/25/2024 14:36	66703	STRA_T1	0	0	0	0	0	0	-0.64	-0.58	0	0	0	0	0	0
8/25/2024 14:38	45402	WBLO_T2	1	1	0	0.5	1.1	0.6	-0.93	-0.99	1	1	0	900	900	0
8/25/2024 14:38	17401	FOHI_T1	0	1	1	0	0	0	-1.51	-1.49	0	0	0	0	0	0
8/25/2024 14:40	46302	ROHR_T1	5	4	-1	0.34	0.55	0.21	0	0	0	0	0	0	0	0
8/25/2024 14:40	46301	ROHR_T1	2	3	1	1.25	2.8	1.55	0.37	0.37	0	0	0	0	0	0
8/25/2024 14:40	20403	ASHF_T2	2	2	0	0.4	1	0.6	0.92	0.92	0	0	0	0	0	0
8/25/2024 14:40	20402	ASHF_T2	5	17	12	0.52	0.97	0.45	0	0	0	0	0	0	0	0
8/25/2024 14:40	20401	ASHF_T2	9	15	6	0.67	0.67	0	0	0	0	0	0	0	0	0
8/25/2024 14:43	16005	DORN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 14:43	10502	ORAC_T1	1	0	-1	1.4	0.4	-1	2	2.06	0	0	0	0	0	0
8/25/2024 14:45	59101	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/25/2024 14:45	59102	WALK_T2	0	0	0	0	0	0	0.6	0.62	0	0	0	0	0	0
8/25/2024 14:47	61102	BERK_T5	0	0	0	0	0	0	0.36	0.36	1	1	0	300	300	0
8/25/2024 14:48	64501	LAVI_T1	0	0	0	0	0	0	-0.16	-0.14	0	0	0	0	0	0
8/25/2024 14:49	61102	BERK_T5	0	0	0	0	0	0	0.36	0.36	1	1	0	300	300	0
8/25/2024 14:52	66703	STRA_T1	0	0	0	0	0	0	-0.58	-0.65	0	0	0	0	0	0
8/25/2024 14:53	45402	WBLO_T2	1	1	0	1.1	1.3	0.2	-0.99	-0.96	1	1	0	900	900	0
8/25/2024 14:53	57401	SPAN_T1	2	4	2	0.9	4.7	3.8	-0.9	-0.74	1	1	0	600	600	0
8/25/2024 14:55	57401	SPAN_T1	2	4	2	0.9	4.7	3.8	-0.9	-0.74	1	1	0	600	600	0
8/25/2024 14:56	20401	ASHF_T2	13	14	1	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
8/25/2024 14:56	20403	ASHF_T2	2	1	-1	0.65	0	-0.65	0.92	-0.23	0	0	0	0	0	0
8/25/2024 14:56	20402	ASHF_T2	5	15	10	0.84	0.9	0.06	0	0	0	0	0	0	0	0
8/25/2024 14:56	66703	STRA_T1	0	0	0	0	0	0	-0.58	-0.65	0	0	0	0	0	0
8/25/2024 14:58	61701	ELIZ_T1	2	4	2	0.1	0.5	0.4	1.48	1.57	0	0	0	0	0	0
8/25/2024 14:58	61703	ELIZ_T1	11	20	9	0.38	0.27	-0.11	0	0	0	0	0	0	0	0
8/25/2024 14:59	61704	ELIZ_T2	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 14:59	61702	ELIZ_T2	7	17	10	0.89	0.63	-0.26	-1.24	-1.28	2	2	0	1500	1500	0
8/25/2024 15:01	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 15:01	20601	GRWO_T2	104	157	53	0.65	0.7	0.05	0.94	0.97	0	0	0	0	0	0
8/25/2024 15:02	42902	MIDD_T2	5	3	-2	1.1	2.7	1.6	-0.96	-0.98	1	1	0	600	600	0
8/25/2024 15:03	42902	MIDD_T2	5	3	-2	1.1	2.7	1.6	-0.96	-0.98	1	1	0	600	600	0
8/25/2024 15:04	42902	MIDD_T2	5	3	-2	1.1	2.7	1.6	-0.96	-0.98	1	1	0	600	600	0
8/25/2024 15:06	42902	MIDD_T2	5	3	-2	1.1	2.7	1.6	-0.96	-1.95	2	2	0	1200	1200	0
8/25/2024 15:08	64101	REFR_T1	10	10	0	2.33	0.71	-1.62	-0.08	-0.04	0	0	0	0	0	0
8/25/2024 15:10	41902	REED_T1	26	71	45	0.61	0.46	-0.15	0.45	0.47	0	0	0	0	0	0
8/25/2024 15:11	40201	BEGA_T2	2	4	2	0.7	1.3	0.6	0	0	0	0	0	0	0	0
8/25/2024 15:14	40902	JESH_T1	3	3	0	1.53	0.55	-0.98	-1.41	-1.38	2	2	0	1200	1200	0
8/25/2024 15:14	40901	JESH_T1	1	1	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
8/25/2024 15:15	10801	CHHI_T1	165	213	48	0.74	1.06	0.32	-1.08	-1.02	3	3	0	2100	2100	0
8/25/2024 15:17	47101	MARL_T1	1	6	5	2.5	1.3	-1.2	-0.96	-0.33	1	0	-1	600	0	-600
8/25/2024 15:17	52102	MEIS_T1	0	1	1	0	0	0	0	0	1	1	0	450	450	0
8/25/2024 15:19	40902	JESH_T1	3	2	-1	1.77	0.45	-1.32	-1.41	-1.38	2	2	0	1200	1200	0
8/25/2024 15:19	40901	JESH_T1	1	1	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/25/2024 15:19	47101	MARL_T1	1	6	5	2.5	1.3	-1.2	-1.93	-0.66	2	0	-2	1200	0	-1200
8/25/2024 15:21	47403	PENS_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
8/25/2024 15:21	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 15:21	47401	PENS_T1	2	2	0	0.45	1.05	0.6	2.32	2.83	0	0	0	0	0	0
8/25/2024 15:22	47401	PENS_T1	2	2	0	0.45	1.05	0.6	0.93	1.13	0	0	0	0	0	0
8/25/2024 15:22	47403	PENS_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
8/25/2024 15:22	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 15:22	54001	SDLE_T1	4	15	11	0.25	0.24	-0.01	0	0	1	1	0	600	600	0
8/25/2024 15:23	21705	SUBU_T1	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
8/25/2024 15:23	21701	SUBU_T1	5	13	8	1.78	1.15	-0.63	0	0	0	0	0	0	0	0
8/25/2024 15:23	47101	MARL_T1	1	6	5	2.5	1.3	-1.2	-0.33	-0.97	0	1	1	0	600	600
8/25/2024 15:23	21704	SUBU_T1	0	0	0	0	0	0	-2.07	-2.07	2	2	0	2400	2400	0
8/25/2024 15:24	42701	AUGU_T1	54	57	3	0.73	0.78	0.05	0	0	2	2	0	1800	1800	0
8/25/2024 15:27	42201	SHEN_T2	0	1	1	0	0.2	0.2	0.36	0.45	1	1	0	600	600	0
8/25/2024 15:27	16605	PONO_T1	2	0	-2	0.1	0	-0.1	-1.23	0	2	2	0	2400	2400	0
8/25/2024 15:30	53902	HALI_T2	1	1	0	3.6	3.6	0	0	0	0	0	0	0	0	0
8/25/2024 15:30	53901	HALI_T2	1	1	0	0.5	1.1	0.6	-2.26	-2.34	0	0	0	0	0	0
8/25/2024 15:31	61701	ELIZ_T1	9	43	34	0.57	0.5	-0.07	1.39	1.38	0	0	0	0	0	0
8/25/2024 15:31	61703	ELIZ_T1	21	75	54	0.56	0.55	-0.01	0	0	0	0	0	0	0	0
8/25/2024 15:31	16605	PONO_T1	0	0	0	0	0	0	-1.23	0	2	2	0	2400	2400	0
8/25/2024 15:32	53901	HALI_T2	1	1	0	0.5	1.1	0.6	-0.75	-0.78	0	0	0	0	0	0
8/25/2024 15:32	53902	HALI_T2	1	1	0	3.6	3.6	0	0	0	0	0	0	0	0	0
8/25/2024 15:33	55101	WERT_T1	0	0	0	0	0	0	-2.67	-2.62	4	4	0	3300	3300	0
8/25/2024 15:33	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 15:33	55105	WERT_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 15:34	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 15:36	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 15:36	41902	REED_T1	70	133	63	0.57	0.6	0.03	0.49	0.46	0	0	0	0	0	0
8/25/2024 15:39	51304	WIND_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
8/25/2024 15:40	42701	AUGU_T1	55	56	1	0.88	0.66	-0.22	0	0	2	2	0	1800	1800	0
8/25/2024 15:42	11102	EGYP_T1	4	5	1	1.5	1.6	0.1	0	0	0	0	0	0	0	0
8/25/2024 15:42	11104	EGYP_T1	5	5	0	0.7	1.52	0.82	0.17	0.2	1	1	0	900	900	0
8/25/2024 15:42	11101	EGYP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/25/2024 15:43	54001	SDLE_T1	12	17	5	0.23	0.36	0.13	0	0	1	1	0	600	600	0
8/25/2024 15:46	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 15:46	11104	EGYP_T1	5	6	1	1.52	1.6	0.08	0.17	0.2	1	1	0	900	900	0
8/25/2024 15:46	11102	EGYP_T1	3	6	3	1.67	1.18	-0.49	0	0	0	0	0	0	0	0
8/25/2024 15:46	20601	GRWO_T2	132	201	69	1.05	0.86	-0.19	0.97	0.97	0	0	0	0	0	0
8/25/2024 15:49	45802	HEGI_T2	47	47	0	1.43	1.44	0.01	0.02	0.01	0	0	0	0	0	0
8/25/2024 15:52	41902	REED_T1	130	112	-18	0.59	0.54	-0.05	0.46	0.55	0	0	0	0	0	0
8/25/2024 15:53	45303	WBER_T2	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/25/2024 15:53	43108	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/25/2024 15:53	45302	WBER_T2	2	2	0	0.85	0.3	-0.55	1.51	1.51	0	0	0	0	0	0
8/25/2024 15:53	43104	SMIL_T2	1	4	3	0.4	0.55	0.15	-0.39	-0.36	1	1	0	300	300	0
8/25/2024 15:53	43101	SMIL_T2	8	9	1	0.84	0.7	-0.14	0	0	0	0	0	0	0	0
8/25/2024 15:54	65902	SAKR_T2	0	0	0	0	0	0	-0.4	-0.35	1	1	0	300	300	0
8/25/2024 15:54	43101	SMIL_T2	8	9	1	0.84	0.7	-0.14	0	0	0	0	0	0	0	0
8/25/2024 15:54	65901	SAKR_T2	1	1	0	6	6.4	0.4	0	0	0	0	0	0	0	0
8/25/2024 15:54	67103	SPRI_T1	0	0	0	0	0	0	-0.6	-0.66	0	0	0	0	0	0
8/25/2024 15:54	43104	SMIL_T2	1	4	3	0.4	0.55	0.15	-0.39	-0.36	1	1	0	300	300	0
8/25/2024 15:54	43103	SMIL_T2	0	0	0	0	0	0	-5.58	-5.57	0	0	0	0	0	0
8/25/2024 15:54	45303	WBER_T2	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/25/2024 15:54	43108	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/25/2024 15:54	45302	WBER_T2	2	2	0	0.85	0.3	-0.55	1.51	1.51	0	0	0	0	0	0
8/25/2024 15:55	43104	SMIL_T2	1	4	3	0.4	0.55	0.15	0	0	0	0	0	0	0	0
8/25/2024 15:55	43103	SMIL_T2	0	0	0	0	0	0	-2.79	-2.78	0	0	0	0	0	0
8/25/2024 15:55	43101	SMIL_T2	8	9	1	0.84	0.7	-0.14	0	0	0	0	0	0	0	0
8/25/2024 15:55	43108	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/25/2024 15:56	43104	SMIL_T2	1	4	3	0.4	0.55	0.15	-0.77	-0.72	2	2	0	600	600	0
8/25/2024 15:56	43101	SMIL_T2	8	9	1	0.84	0.7	-0.14	0	0	0	0	0	0	0	0
8/25/2024 15:56	43108	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/25/2024 15:57	43104	SMIL_T2	1	4	3	0.4	0.55	0.15	0	0	0	0	0	0	0	0
8/25/2024 15:57	43101	SMIL_T2	8	9	1	0.84	0.7	-0.14	-0.67	-0.68	1	1	0	300	300	0
8/25/2024 15:57	46102	MACI_T1	0	0	0	0	0	0	0.94	0.95	0	0	0	0	0	0
8/25/2024 15:57	43108	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/25/2024 15:58	20402	ASHF_T2	10	13	3	0.95	0.3	-0.65	0	0	0	0	0	0	0	0
8/25/2024 15:58	20403	ASHF_T2	1	9	8	1	1.3	0.3	-0.22	-0.23	0	0	0	0	0	0
8/25/2024 15:58	61802	EELI_T2	8	10	2	2.15	2.22	0.07	-0.12	-0.09	0	0	0	0	0	0
8/25/2024 15:58	20401	ASHF_T2	11	14	3	0.77	1.02	0.25	0	0	0	0	0	0	0	0
8/25/2024 15:58	61801	EELI_T2	12	14	2	0.73	1.4	0.67	0	0	0	0	0	0	0	0
8/25/2024 16:00	61801	EELI_T2	14	14	0	1.38	1.35	-0.03	0	0	0	0	0	0	0	0
8/25/2024 16:00	61803	EELI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 16:00	61701	ELIZ_T1	42	37	-5	0.4	0.38	-0.02	1.35	1.38	0	0	0	0	0	0
8/25/2024 16:00	61802	EELI_T2	10	12	2	2.03	2.29	0.26	-0.12	-0.09	0	0	0	0	0	0
8/25/2024 16:00	61703	ELIZ_T1	75	86	11	0.51	0.42	-0.09	0	0	0	0	0	0	0	0
8/25/2024 16:01	61803	EELI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 16:01	61703	ELIZ_T1	75	86	11	0.51	0.42	-0.09	0	0	0	0	0	0	0	0
8/25/2024 16:01	61802	EELI_T2	10	12	2	2.03	2.29	0.26	-0.12	-0.09	0	0	0	0	0	0
8/25/2024 16:01	61701	ELIZ_T1	42	37	-5	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
8/25/2024 16:01	61801	EELI_T2	14	14	0	1.38	1.35	-0.03	0	0	0	0	0	0	0	0
8/25/2024 16:02	51401	LYKE_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
8/25/2024 16:06	41602	CLEV_T1	13	9	-4	0.43	0.33	-0.1	0	0	2	2	0	1200	1200	0
8/25/2024 16:07	14403	SSLA_T1	4	3	-1	0.48	0.8	0.32	0	0	0	0	0	0	0	0
8/25/2024 16:07	14404	SSLA_T1	17	39	22	0.58	0.65	0.07	0	0	0	0	0	0	0	0
8/25/2024 16:07	14401	SSLA_T1	10	13	3	0.64	0.5	-0.14	0	0	2	2	0	1800	1800	0
8/25/2024 16:07	14402	SSLA_T1	2	2	0	1.25	0.1	-1.15	0	0	0	0	0	0	0	0
8/25/2024 16:09	20402	ASHF_T2	9	15	6	0.27	0.78	0.51	0	0	0	0	0	0	0	0
8/25/2024 16:09	20403	ASHF_T2	3	10	7	0.57	0.78	0.21	-0.23	-0.23	0	0	0	0	0	0
8/25/2024 16:09	20401	ASHF_T2	12	23	11	1.41	0.74	-0.67	0	0	0	0	0	0	0	0
8/25/2024 16:10	45303	WBER_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/25/2024 16:10	45302	WBER_T2	2	1	-1	0.8	0	-0.8	1.51	1.49	0	0	0	0	0	0
8/25/2024 16:16	61704	ELIZ_T2	12	12	0	0.68	0.47	-0.21	0	0	0	0	0	0	0	0
8/25/2024 16:16	25402	LAHA_T2	0	0	0	0	0	0	-0.21	-0.52	0	0	0	0	0	0
8/25/2024 16:16	61702	ELIZ_T2	39	39	0	0.8	0.3	-0.5	-1.24	-1.22	2	2	0	1500	1500	0
8/25/2024 16:17	59301	MCAL_T1	5	8	3	0.38	0.38	0	-1.41	-1.38	1	1	0	600	600	0
8/25/2024 16:18	64303	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 16:18	64305	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 16:18	64301	LINC_T1	0	0	0	0	0	0	-0.7	-0.69	1	1	0	600	600	0
8/25/2024 16:18	59301	MCAL_T1	5	8	3	0.38	0.38	0	-1.41	-1.38	1	1	0	600	600	0
8/25/2024 16:20	59301	MCAL_T1	5	8	3	0.38	0.38	0	0	0	0	0	0	0	0	0
8/25/2024 16:21	59301	MCAL_T1	5	8	3	0.38	0.38	0	-1.41	-1.38	1	1	0	600	600	0
8/25/2024 16:25	20403	ASHF_T2	7	13	6	0.71	0.84	0.13	0.23	0.22	0	0	0	0	0	0
8/25/2024 16:25	20401	ASHF_T2	8	34	26	0.76	0.75	-0.01	0	0	0	0	0	0	0	0
8/25/2024 16:25	20402	ASHF_T2	11	15	4	0.71	0.64	-0.07	0	0	0	0	0	0	0	0
8/25/2024 16:26	46206	DANV_T2	3	5	2	0.63	1.05	0.42	0	0	0	0	0	0	0	0
8/25/2024 16:26	46203	DANV_T2	1	2	1	5.1	5	-0.1	-1.4	-1.4	0	0	0	0	0	0
8/25/2024 16:26	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 16:27	44301	BEAV_T2	2	4	2	1.35	0.87	-0.48	-1.05	-1.05	1	1	0	600	600	0
8/25/2024 16:28	44301	BEAV_T2	2	4	2	1.35	0.87	-0.48	-1.05	-1.05	1	1	0	600	600	0
8/25/2024 16:28	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 16:28	46206	DANV_T2	3	5	2	0.63	1.05	0.42	0	0	0	0	0	0	0	0
8/25/2024 16:28	46203	DANV_T2	1	2	1	5.1	5	-0.1	-1.4	-1.4	0	0	0	0	0	0
8/25/2024 16:29	44301	BEAV_T2	2	4	2	1.35	0.87	-0.48	0	0	0	0	0	0	0	0
8/25/2024 16:33	40101	HUNT_T2	359	494	135	0.63	0.61	-0.02	-1.12	-1.14	0	0	0	0	0	0
8/25/2024 16:36	65604	QVIL_T2	3	3	0	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
8/25/2024 16:36	65601	QVIL_T2	0	3	3	0	0.3	0.3	-0.03	0.04	1	1	0	900	900	0
8/25/2024 16:36	65602	QVIL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/25/2024 16:36	65603	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 16:37	58701	ROSE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 16:37	58706	ROSE_T2	3	1	-2	1.27	2.3	1.03	0.19	0.16	1	1	0	600	600	0
8/25/2024 16:37	58702	ROSE_T2	1	0	-1	8.3	0	-8.3	0	0	0	0	0	0	0	0
8/25/2024 16:37	58704	ROSE_T2	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
8/25/2024 16:38	15603	NSTR_T2	0	0	0	0	0	0	-0.12	-0.08	0	0	0	0	0	0
8/25/2024 16:38	15601	NSTR_T2	2	3	1	0.45	0.9	0.45	0	0	0	0	0	0	0	0
8/25/2024 16:39	59101	WALK_T2	0	2	2	0	0	0	0.24	0.29	0	0	0	0	0	0
8/25/2024 16:41	59101	WALK_T2	0	2	2	0	0	0	0.12	0.15	0	0	0	0	0	0
8/25/2024 16:44	10805	CHHI_T2	4	16	12	2.3	1.43	-0.87	-1.47	-1.45	2	2	0	1800	1800	0
8/25/2024 16:45	61803	EELI_T2	0	8	8	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 16:45	61801	EELI_T2	18	32	14	1.33	0.83	-0.5	0	0	0	0	0	0	0	0
8/25/2024 16:45	61802	EELI_T2	12	17	5	1.95	2.05	0.1	0	0	0	0	0	0	0	0
8/25/2024 16:52	43201	MVIL_T2	71	73	2	0.82	0.5	-0.32	-0.1	-0.09	0	0	0	0	0	0
8/25/2024 16:52	43202	MVIL_T2	14	11	-3	0.86	1.33	0.47	0	0	0	0	0	0	0	0
8/25/2024 16:55	59101	WALK_T2	1	1	0	0.2	0	-0.2	0.15	0.12	0	0	0	0	0	0
8/25/2024 16:55	58701	ROSE_T2	1	4	3	0.2	0	-0.2	-0.66	-0.68	1	1	0	600	600	0
8/25/2024 16:55	58706	ROSE_T2	1	1	0	2.5	2.3	-0.2	0	0	0	0	0	0	0	0
8/25/2024 16:55	58704	ROSE_T2	1	0	-1	2.6	0	-2.6	0	0	0	0	0	0	0	0
8/25/2024 16:56	55105	WERT_T1	4	5	1	0.75	0.27	-0.48	0	0	0	0	0	0	0	0
8/25/2024 16:56	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 16:56	55101	WERT_T1	0	0	0	0	0	0	-2.46	-2.52	4	4	0	3300	3300	0
8/25/2024 16:57	55101	WERT_T1	0	0	0	0	0	0	-2.46	-2.52	4	4	0	3300	3300	0
8/25/2024 16:57	55105	WERT_T1	4	5	1	0.75	0.27	-0.48	0	0	0	0	0	0	0	0
8/25/2024 16:57	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 17:03	52404	GRPA_T2	3	3	0	0.23	0.8	0.57	0	0	0	0	0	0	0	0
8/25/2024 17:03	52402	GRPA_T2	8	6	-2	0.56	0	-0.56	0	0	0	0	0	0	0	0
8/25/2024 17:03	52401	GRPA_T2	51	48	-3	0.59	0.45	-0.14	-0.75	-0.75	0	0	0	0	0	0
8/25/2024 17:03	52403	GRPA_T2	77	73	-4	1.49	1.39	-0.1	0	0	0	0	0	0	0	0
8/25/2024 17:05	52403	GRPA_T2	77	73	-4	1.49	1.39	-0.1	0	0	0	0	0	0	0	0
8/25/2024 17:05	12202	FOGE_T2	2	18	16	0.2	0.2	0	0	0	1	1	0	600	600	0
8/25/2024 17:05	52401	GRPA_T2	51	48	-3	0.59	0.45	-0.14	0	0	0	0	0	0	0	0
8/25/2024 17:05	52404	GRPA_T2	3	3	0	0.23	0.8	0.57	-0.45	-0.42	0	0	0	0	0	0
8/25/2024 17:05	52402	GRPA_T2	8	6	-2	0.56	0	-0.56	0	0	0	0	0	0	0	0
8/25/2024 17:06	46901	MNTG_T2	0	0	0	0	0	0	-0.39	-0.41	1	1	0	1200	1200	0
8/25/2024 17:07	46901	MNTG_T2	0	0	0	0	0	0	-0.39	-0.41	1	1	0	1200	1200	0
8/25/2024 17:08	58706	ROSE_T2	1	1	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
8/25/2024 17:08	58701	ROSE_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
8/25/2024 17:08	43201	MVIL_T2	67	80	13	0.55	0.56	0.01	-0.09	-0.12	0	0	0	0	0	0
8/25/2024 17:08	58703	ROSE_T2	0	0	0	0	0	0	-1.09	-1.11	0	0	0	0	0	0
8/25/2024 17:08	43202	MVIL_T2	11	12	1	1.33	1.56	0.23	0	0	0	0	0	0	0	0
8/25/2024 17:09	43304	WATS_T2	12	23	11	0.31	0.42	0.11	0	0	0	0	0	0	0	0
8/25/2024 17:09	43301	WATS_T2	5	3	-2	0.36	0.7	0.34	-0.06	-0.03	1	1	0	900	900	0
8/25/2024 17:09	58706	ROSE_T2	1	1	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
8/25/2024 17:09	58701	ROSE_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
8/25/2024 17:09	67803	WLAN_T1	1	1	0	0.5	0.3	-0.2	-0.71	-0.72	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/25/2024 17:09	67801	WLAN_T1	18	28	10	0.59	0.31	-0.28	0	0	0	0	0	0	0	0
8/25/2024 17:09	67804	WLAN_T1	10	10	0	1.47	1.59	0.12	0	0	0	0	0	0	0	0
8/25/2024 17:09	58703	ROSE_T2	0	0	0	0	0	0	-1.09	-1.11	0	0	0	0	0	0
8/25/2024 17:11	44302	BEAV_T2	0	16	16	0	0.18	0.18	0.49	0.48	0	0	0	0	0	0
8/25/2024 17:11	44301	BEAV_T2	10	9	-1	0.43	0.55	0.12	-0.96	-1	1	1	0	600	600	0
8/25/2024 17:12	44302	BEAV_T2	0	16	16	0	0.18	0.18	0.49	0.48	0	0	0	0	0	0
8/25/2024 17:12	44301	BEAV_T2	10	9	-1	0.43	0.55	0.12	0	0	0	0	0	0	0	0
8/25/2024 17:13	44302	BEAV_T2	0	16	16	0	0.18	0.18	0.49	0.48	0	0	0	0	0	0
8/25/2024 17:13	44301	BEAV_T2	10	9	-1	0.43	0.55	0.12	0	0	0	0	0	0	0	0
8/25/2024 17:15	44302	BEAV_T2	0	18	18	0	0.17	0.17	0	0	0	0	0	0	0	0
8/25/2024 17:15	44301	BEAV_T2	5	11	6	0.64	0.7	0.06	-0.96	-1	1	1	0	600	600	0
8/25/2024 17:18	43202	MVIL_T2	10	11	1	1.57	1.27	-0.3	0	0	0	0	0	0	0	0
8/25/2024 17:18	43201	MVIL_T2	70	77	7	0.62	0.53	-0.09	-0.09	-0.12	0	0	0	0	0	0
8/25/2024 17:20	51004	NHAR_T1	1	1	0	7	6.6	-0.4	0	0	0	0	0	0	0	0
8/25/2024 17:20	51003	NHAR_T1	0	0	0	0	0	0	-2	-2.06	0	0	0	0	0	0
8/25/2024 17:22	51401	LYKE_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
8/25/2024 17:23	57401	SPAN_T1	20	91	71	0.29	0.31	0.02	0	0	0	0	0	0	0	0
8/25/2024 17:23	57403	SPAN_T1	10	27	17	1.05	0.82	-0.23	0.62	0.63	0	0	0	0	0	0
8/25/2024 17:24	54601	SUMM_T2	1	1	0	0.8	0.1	-0.7	-1.96	-1.97	3	3	0	3000	3000	0
8/25/2024 17:24	57403	SPAN_T1	10	27	17	1.05	0.82	-0.23	0.62	0.63	0	0	0	0	0	0
8/25/2024 17:24	54602	SUMM_T2	6	10	4	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
8/25/2024 17:24	57401	SPAN_T1	20	91	71	0.29	0.31	0.02	0	0	0	0	0	0	0	0
8/25/2024 17:24	54603	SUMM_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 17:25	15001	BLMO_T1	6	11	5	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
8/25/2024 17:26	55102	WERT_T2	3	3	0	1.33	0.1	-1.23	-4.26	-4.24	4	4	0	2400	2400	0
8/25/2024 17:31	62601	ENGL_T1	8	4	-4	0.75	0.57	-0.18	0	0	0	0	0	0	0	0
8/25/2024 17:31	62606	ENGL_T1	15	16	1	2.11	1.5	-0.61	0	0	0	0	0	0	0	0
8/25/2024 17:31	62604	ENGL_T1	16	24	8	0.89	0.64	-0.25	0	0	0	0	0	0	0	0
8/25/2024 17:31	62607	ENGL_T1	3	9	6	1.33	0.75	-0.58	-0.24	-0.22	1	1	0	300	300	0
8/25/2024 17:32	65401	MARI_T1	17	17	0	4.89	4.76	-0.13	0	0	0	0	0	0	0	0
8/25/2024 17:32	65402	MARI_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/25/2024 17:33	12601	MACA_T1	5	0	-5	0.7	0	-0.7	1.46	1.45	0	0	0	0	0	0
8/25/2024 17:33	12606	MACA_T1	33	32	-1	1.24	0.75	-0.49	0	0	0	0	0	0	0	0
8/25/2024 17:33	12602	MACA_T1	8	9	1	2.34	0.58	-1.76	0	0	0	0	0	0	0	0
8/25/2024 17:34	65402	MARI_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/25/2024 17:34	65401	MARI_T1	17	17	0	4.89	4.76	-0.13	0	0	0	0	0	0	0	0
8/25/2024 17:34	46101	MACI_T2	0	0	0	0	0	0	0.7	0.69	0	0	0	0	0	0
8/25/2024 17:37	51201	MTON_T1	0	0	0	0	0	0	1.1	1.08	0	0	0	0	0	0
8/25/2024 17:43	16006	DORN_T2	18	20	2	2.07	1.26	-0.81	0	0	0	0	0	0	0	0
8/25/2024 17:43	16002	DORN_T2	12	15	3	0.98	0.46	-0.52	0.01	0.02	1	1	0	1200	1200	0
8/25/2024 17:44	10601	BLGL_T1	1	1	0	1.2	0.5	-0.7	0	0	0	0	0	0	0	0
8/25/2024 17:44	10603	BLGL_T1	79	66	-13	1.09	1.1	0.01	-0.19	-0.2	0	0	0	0	0	0
8/25/2024 17:46	46102	MACI_T1	0	0	0	0	0	0	1.01	0.99	0	0	0	0	0	0
8/25/2024 17:51	12304	LANA_T2	12	14	2	0.9	1.65	0.75	0	0	0	0	0	0	0	0
8/25/2024 17:51	12305	LANA_T2	7	5	-2	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
8/25/2024 17:51	12302	LANA_T2	0	0	0	0	0	0	-1.67	-1.69	3	3	0	2700	2700	0
8/25/2024 17:56	15001	BLMO_T1	3	5	2	0.23	0.33	0.1	0	0	0	0	0	0	0	0
8/25/2024 17:57	16006	DORN_T2	18	17	-1	1.7	0.75	-0.95	-2.75	-2.78	3	3	0	3600	3600	0
8/25/2024 17:57	16002	DORN_T2	15	6	-9	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
8/25/2024 17:57	15001	BLMO_T1	3	5	2	0.23	0.33	0.1	0	0	0	0	0	0	0	0
8/25/2024 17:58	15001	BLMO_T1	3	5	2	0.23	0.33	0.1	0	0	0	0	0	0	0	0
8/25/2024 17:59	47203	FAXO_T2	1	1	0	0.3	0.2	-0.1	-1.49	-1.52	1	1	0	1200	1200	0
8/25/2024 17:59	47201	FAXO_T2	10	5	-5	1.06	0.4	-0.66	0	0	0	0	0	0	0	0
8/25/2024 18:02	50201	HARR_T3	1	2	1	9.9	10	0.1	0	0	0	0	0	0	0	0
8/25/2024 18:02	50107	HARR_T3	1	1	0	8.8	8.1	-0.7	0	0	0	0	0	0	0	0
8/25/2024 18:02	50105	HARR_T3	7	5	-2	6	8.04	2.04	0	0	0	0	0	0	0	0
8/25/2024 18:03	46102	MACI_T1	0	0	0	0	0	0	0.99	0.96	0	0	0	0	0	0
8/25/2024 18:04	63401	HONY_T1	0	0	0	0	0	0	-0.42	-0.46	1	1	0	600	600	0
8/25/2024 18:05	52503	PROG_T2	0	0	0	0	0	0	0.61	0.3	2	2	0	1800	1800	0
8/25/2024 18:06	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 18:16	50105	HARR_T3	6	6	0	8.37	8.23	-0.14	0	0	0	0	0	0	0	0
8/25/2024 18:16	50201	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 18:16	50107	HARR_T3	1	1	0	8.4	8	-0.4	0	0	0	0	0	0	0	0
8/25/2024 18:21	44902	SCOT_T2	1	1	0	6.8	0.3	-6.5	-1.77	-1.73	0	0	0	0	0	0
8/25/2024 18:22	58401	MORO_T1	6	3	-3	0.85	1.35	0.5	-1.8	-1.83	3	3	0	2100	2100	0
8/25/2024 18:22	58402	MORO_T1	15	8	-7	1.35	0.78	-0.57	0	0	0	0	0	0	0	0
8/25/2024 18:23	58401	MORO_T1	6	3	-3	0.85	1.35	0.5	-1.8	-1.83	3	3	0	2100	2100	0
8/25/2024 18:23	58402	MORO_T1	15	8	-7	1.35	0.78	-0.57	0	0	0	0	0	0	0	0
8/25/2024 18:24	44905	SCOT_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 18:24	44903	SCOT_T1	4	6	2	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
8/25/2024 18:30	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/25/2024 18:30	54505	ENOL_T2	0	0	0	0	0	0	-1.16	-1.2	1	1	0	600	600	0
8/25/2024 18:30	54501	ENOL_T2	3	3	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/25/2024 18:32	63304	GREE_T1	0	0	0	0	0	0	-6.56	-6.6	2	2	0	2400	2400	0
8/25/2024 18:40	58705	ROSE_T2	2	2	0	0.1	0.45	0.35	0	0	0	0	0	0	0	0
8/25/2024 18:40	58702	ROSE_T2	0	0	0	0	0	0	-2.13	-1.85	0	0	0	0	0	0
8/25/2024 18:40	58701	ROSE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 18:40	58706	ROSE_T2	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
8/25/2024 18:46	63501	HEID_T8X1-2	56	0	-56	3.53	3.17	-0.36	0.3	0.27	1	1	0	900	900	0
8/25/2024 18:47	12006	HATF_T1	0	0	0	0	0	0	0.59	0.52	1	1	0	1200	1200	0
8/25/2024 18:52	14603	SWHI_T1	2	3	1	0.55	0.1	-0.45	-0.87	-0.9	2	2	0	1200	1200	0
8/25/2024 18:52	14605	SWHI_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
8/25/2024 18:59	50107	HARR_T3	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
8/25/2024 18:59	54505	ENOL_T2	0	0	0	0	0	0	-1.18	-1.25	1	1	0	600	600	0
8/25/2024 18:59	50103	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/25/2024 18:59	50105	HARR_T3	6	6	0	8.28	8.05	-0.23	0	0	0	0	0	0	0	0
8/25/2024 18:59	54501	ENOL_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
8/25/2024 19:06	16505	STRO_T1	10	10	0	1.36	0.64	-0.72	0	0	0	0	0	0	0	0
8/25/2024 19:06	16504	STRO_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
8/25/2024 19:08	16504	STRO_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
8/25/2024 19:08	16505	STRO_T1	10	10	0	1.36	0.64	-0.72	0	0	0	0	0	0	0	0
8/25/2024 19:46	57401	SPAN_T1	1	1	0	0.2	9.4	9.2	-0.87	-0.89	1	1	0	600	600	0
8/25/2024 20:08	45902	AUBU_T1	0	0	0	0	0	0	-0.93	-0.99	1	1	0	600	600	0
8/25/2024 20:12	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 20:25	14702	TREX_T2	0	0	0	0	0	0	0.96	0.93	0	0	0	0	0	0
8/25/2024 20:30	14702	TREX_T2	0	0	0	0	0	0	0.96	0.93	0	0	0	0	0	0
8/25/2024 20:31	11102	EGYP_T1	5	1	-4	0.42	0	-0.42	0	0	0	0	0	0	0	0
8/25/2024 20:31	11104	EGYP_T1	5	5	0	0.58	0.1	-0.48	0	0	0	0	0	0	0	0
8/25/2024 20:31	11103	EGYP_T1	0	0	0	0	0	0	-0.52	-0.56	0	0	0	0	0	0
8/25/2024 20:44	46206	DANV_T2	1	1	0	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
8/25/2024 20:44	46204	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/25/2024 20:44	46203	DANV_T2	1	1	0	7	7.4	0.4	-2.43	-1.59	0	0	0	0	0	0
8/25/2024 21:03	42302	MOWR_T2	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
8/25/2024 21:04	22805	HAUT_T2	0	0	0	0	0	0	-1.4	-1.43	1	1	0	1200	1200	0
8/25/2024 21:04	22803	HAUT_T2	10	0	-10	0.26	0	-0.26	0	0	0	0	0	0	0	0
8/25/2024 21:30	15203	SFAR_T2	0	0	0	0	0	0	-0.58	-0.64	0	0	0	0	0	0
8/25/2024 21:30	10602	BLGL_T2	1	1	0	8.1	8.9	0.8	0.56	0.52	0	0	0	0	0	0
8/25/2024 21:33	14403	SSLA_T1	1	1	0	2.1	0.7	-1.4	0	0	0	0	0	0	0	0
8/25/2024 21:33	14401	SSLA_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/25/2024 21:33	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
8/25/2024 21:33	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.2	0	0	0	0	0	0
8/25/2024 21:33	10805	CHHI_T2	1	1	0	7.9	8.2	0.3	-1.33	-1.05	1	1	0	600	600	0
8/25/2024 21:34	16402	MOPO_T1	0	0	0	0	0	0	0.01	-0.03	0	0	0	0	0	0
8/25/2024 21:34	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/25/2024 21:34	61701	ELIZ_T1	1	1	0	0.5	1.1	0.6	1.59	1.55	0	0	0	0	0	0
8/25/2024 21:34	29402	BELT_T1	1	1	0	8	8.7	0.7	0	0	0	0	0	0	0	0
8/25/2024 21:35	20601	GRWO_T2	9	3	-6	0.56	1.2	0.64	0	0	0	0	0	0	0	0
8/25/2024 21:35	16101	BING_T2	0	0	0	0	0	0	0.91	0.88	0	0	0	0	0	0
8/25/2024 21:35	16102	BING_T2	9	11	2	0.28	0.34	0.06	0	0	0	0	0	0	0	0
8/25/2024 21:35	20603	GRWO_T2	0	0	0	0	0	0	-0.47	-0.45	1	1	0	900	900	0
8/25/2024 21:35	16504	STRO_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
8/25/2024 21:35	14702	TREX_T2	0	0	0	0	0	0	0.89	0.81	0	0	0	0	0	0
8/25/2024 21:35	12801	MICK_T1	0	0	0	0	0	0	-0.75	-0.8	1	1	0	600	600	0
8/25/2024 21:36	29402	BELT_T1	1	1	0	8	8.7	0.7	0	0	0	0	0	0	0	0
8/25/2024 21:36	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/25/2024 21:37	12305	LANA_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/25/2024 21:37	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:37	15603	NSTR_T2	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
8/25/2024 21:37	25402	LAHA_T2	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
8/25/2024 21:37	12302	LANA_T2	0	0	0	0	0	0	-2.18	-2.23	3	3	0	2700	2700	0
8/25/2024 21:37	29402	BELT_T1	1	1	0	8	8.7	0.7	0	0	0	0	0	0	0	0
8/25/2024 21:37	13904	SEID_T1	6	16	10	0.83	0.28	-0.55	0	0	0	0	0	0	0	0
8/25/2024 21:37	45902	AUBU_T1	14	47	33	0.23	0.26	0.03	0	0	0	0	0	0	0	0
8/25/2024 21:37	13905	SEID_T1	0	0	0	0	0	0	-0.61	-0.65	1	1	0	1200	1200	0
8/25/2024 21:37	45901	AUBU_T1	0	3	3	0	0.13	0.13	1.1	1.12	0	0	0	0	0	0
8/25/2024 21:37	15601	NSTR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/25/2024 21:38	16006	DORN_T2	0	0	0	0	0	0	0	-0.11	2	2	0	2400	2400	0
8/25/2024 21:38	63403	HONY_T2	0	0	0	0	0	0	-0.78	-1.44	0	1	1	0	600	600
8/25/2024 21:38	29402	BELT_T1	1	1	0	8	8.7	0.7	0	0	0	0	0	0	0	0
8/25/2024 21:39	45901	AUBU_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
8/25/2024 21:39	11102	EGYP_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/25/2024 21:39	45902	AUBU_T1	14	47	33	0.23	0.26	0.03	-0.98	-1	1	1	0	600	600	0
8/25/2024 21:39	16302	ALPA_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
8/25/2024 21:39	11104	EGYP_T1	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
8/25/2024 21:40	48302	ORWI_T2	2	2	0	1.05	1.15	0.1	-0.46	-0.44	0	0	0	0	0	0
8/25/2024 21:40	20601	GRWO_T2	9	3	-6	0.56	1.2	0.64	0.77	0.76	0	0	0	0	0	0
8/25/2024 21:40	61102	BERK_T5	0	0	0	0	0	0	0.13	0.09	1	1	0	300	300	0
8/25/2024 21:40	20403	ASHF_T2	0	0	0	0	0	0	0.58	0.54	0	0	0	0	0	0
8/25/2024 21:40	13503	MCMI_T2	0	12	12	0	0.14	0.14	-0.71	-0.73	0	0	0	0	0	0
8/25/2024 21:41	63602	LETO_T1	0	0	0	0	0	0	-0.47	-0.47	1	1	0	600	600	0
8/25/2024 21:41	16302	ALPA_T2	0	0	0	0	0	0	-0.83	-0.85	0	0	0	0	0	0
8/25/2024 21:41	25402	LAHA_T2	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
8/25/2024 21:41	11507	FREE_T2	11	10	-1	0.68	0.42	-0.26	0.33	0.36	1	1	0	600	600	0
8/25/2024 21:41	14603	SWHI_T1	0	0	0	0	0	0	-1.15	-1.16	2	2	0	1200	1200	0
8/25/2024 21:42	16006	DORN_T2	0	0	0	0	0	0	0	-0.06	1	1	0	1200	1200	0
8/25/2024 21:42	60101	COCA_T1	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
8/25/2024 21:42	22905	HARW_T1	0	18	18	0	0.9	0.9	0	0	0	0	0	0	0	0
8/25/2024 21:42	22903	HARW_T1	22	22	0	0.99	0.6	-0.39	0	0	0	0	0	0	0	0
8/25/2024 21:42	22901	HARW_T1	0	0	0	0	0	0	-0.53	-0.55	1	1	0	1200	1200	0
8/25/2024 21:42	46102	MACI_T1	0	0	0	0	0	0	0.88	0.89	0	0	0	0	0	0
8/25/2024 21:43	65604	QVIL_T2	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
8/25/2024 21:43	10805	CHHI_T2	1	1	0	7.9	8.2	0.3	-1.05	-1.1	1	1	0	600	600	0
8/25/2024 21:43	48302	ORWI_T2	2	2	0	1.05	1.15	0.1	-0.46	-0.44	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/25/2024 21:43	16103	BING_T2	0	0	0	0	0	0	-1.43	-1.51	2	2	0	1500	1500	0
8/25/2024 21:43	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.82	1	1	0	900	900	0
8/25/2024 21:43	16102	BING_T2	9	11	2	0.28	0.34	0.06	0	0	0	0	0	0	0	0
8/25/2024 21:43	14403	SSLA_T1	1	1	0	2.1	0.7	-1.4	-0.74	-0.81	1	1	0	600	600	0
8/25/2024 21:43	13503	MCMI_T2	0	12	12	0	0.14	0.14	-0.71	-0.73	0	0	0	0	0	0
8/25/2024 21:44	48302	ORWI_T2	2	2	0	1.05	1.15	0.1	0	0	0	0	0	0	0	0
8/25/2024 21:44	61802	EELI_T2	8	8	0	0.86	0.4	-0.46	0	0	0	0	0	0	0	0
8/25/2024 21:44	67503	WEWI_T2	1	1	0	4.2	5.3	1.1	-0.13	-0.16	0	0	0	0	0	0
8/25/2024 21:44	60101	COCA_T1	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
8/25/2024 21:44	47101	MARL_T1	11	4	-7	0.9	0.57	-0.33	-0.45	-0.48	0	0	0	0	0	0
8/25/2024 21:44	61801	EELI_T2	3	1	-2	1	0.8	-0.2	0	0	0	0	0	0	0	0
8/25/2024 21:45	54201	PENN_T1	26	35	9	0.37	0.46	0.09	-1.82	-1.85	0	0	0	0	0	0
8/25/2024 21:45	45902	AUBU_T1	22	70	48	0.3	0.23	-0.07	-0.98	-1	1	1	0	600	600	0
8/25/2024 21:45	50201	HARR_T3	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/25/2024 21:45	60101	COCA_T1	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
8/25/2024 21:45	16402	MOPO_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
8/25/2024 21:45	47401	PENS_T1	0	0	0	0	0	0	0.2	0.08	0	0	0	0	0	0
8/25/2024 21:45	13702	SCHN_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
8/25/2024 21:45	50107	HARR_T3	1	1	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
8/25/2024 21:45	10805	CHHI_T2	1	1	0	8.5	8.1	-0.4	-1.05	-1.1	1	1	0	600	600	0
8/25/2024 21:45	61701	ELIZ_T1	1	1	0	1.1	0.8	-0.3	1.55	1.71	0	0	0	0	0	0
8/25/2024 21:45	10603	BLGL_T1	0	0	0	0	0	0	-0.27	-0.32	0	0	0	0	0	0
8/25/2024 21:45	63401	HONY_T1	0	0	0	0	0	0	-0.11	-0.21	1	1	0	600	600	0
8/25/2024 21:45	50103	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:45	66701	STRA_T1	0	0	0	0	0	0	0.3	0.29	1	1	0	600	600	0
8/25/2024 21:45	54203	PENN_T1	18	18	0	0.88	1.06	0.18	0	0	0	0	0	0	0	0
8/25/2024 21:45	50105	HARR_T3	6	6	0	7.63	7.73	0.1	0	0	0	0	0	0	0	0
8/25/2024 21:45	45901	AUBU_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
8/25/2024 21:46	61701	ELIZ_T1	1	1	0	1.1	0.8	-0.3	1.55	1.71	0	0	0	0	0	0
8/25/2024 21:46	63203	MGTN_T1	0	0	0	0	0	0	-0.1	-0.1	1	1	0	600	600	0
8/25/2024 21:46	21204	ECAR_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
8/25/2024 21:46	60101	COCA_T1	0	0	0	0	0	0	1.51	1.43	0	0	0	0	0	0
8/25/2024 21:46	66703	STRA_T1	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
8/25/2024 21:46	52202	DEVO_T2	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
8/25/2024 21:46	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:46	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/25/2024 21:46	52204	DEVO_T2	3	3	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
8/25/2024 21:46	21206	ECAR_T2	1	1	0	7.8	7.4	-0.4	0.15	0.11	0	0	0	0	0	0
8/25/2024 21:47	53902	HALI_T2	1	1	0	4.5	5	0.5	-0.71	-0.68	0	0	0	0	0	0
8/25/2024 21:47	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
8/25/2024 21:47	65207	PRIN_T4	12	2	-10	0.2	0.3	0.1	0	0	2	2	0	1800	1800	0
8/25/2024 21:47	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:47	47001	HUGH_T2	3	3	0	7.87	8.4	0.53	-1.52	-1.51	1	1	0	900	900	0
8/25/2024 21:47	10805	CHHI_T2	1	1	0	8.5	8.1	-0.4	-1.05	-1.1	1	1	0	600	600	0
8/25/2024 21:47	47802	MOCA_T2	0	0	0	0	0	0	-0.76	-0.63	0	0	0	0	0	0
8/25/2024 21:47	45302	WBER_T2	0	0	0	0	0	0	1.18	1.2	0	0	0	0	0	0
8/25/2024 21:47	15702	TANN_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
8/25/2024 21:47	65201	PRIN_T4	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/25/2024 21:47	66703	STRA_T1	0	0	0	0	0	0	-1.48	-1.5	0	0	0	0	0	0
8/25/2024 21:47	52004	LING_T2	2	2	0	4.85	4.85	0	0.01	0.02	0	0	0	0	0	0
8/25/2024 21:47	53903	HALI_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/25/2024 21:47	45902	AUBU_T1	22	70	48	0.3	0.23	-0.07	-0.98	-1	1	1	0	600	600	0
8/25/2024 21:47	61702	ELIZ_T2	0	1	1	0	0	0	-1.53	-1.54	2	2	0	1500	1500	0
8/25/2024 21:47	57403	SPAN_T1	8	60	52	0.14	0.39	0.25	0	0	0	0	0	0	0	0
8/25/2024 21:47	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:47	53901	HALI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/25/2024 21:47	47002	HUGH_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/25/2024 21:47	40101	HUNT_T2	0	3	3	0	0	0	-1.23	-1.32	0	0	0	0	0	0
8/25/2024 21:47	67605	WARW_T1	2	1	-1	0.9	0.8	-0.1	-2.06	-2.19	0	0	0	0	0	0
8/25/2024 21:47	45901	AUBU_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
8/25/2024 21:47	47101	MARL_T1	4	7	3	0.85	0	-0.85	-0.45	-0.48	0	0	0	0	0	0
8/25/2024 21:47	64101	REFR_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
8/25/2024 21:47	56501	ROCK_T2	143	7	-136	0.28	0.48	0.2	0	0	0	0	0	0	0	0
8/25/2024 21:47	12002	HATF_T1	0	0	0	0	0	0	-1.2	-1.21	1	1	0	1200	1200	0
8/25/2024 21:47	55101	WERT_T1	0	0	0	0	0	0	-2.71	-1.83	4	3	-1	3300	2400	-900
8/25/2024 21:47	52204	DEVO_T2	3	3	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
8/25/2024 21:47	57401	SPAN_T1	0	1	1	0	0	0	-0.57	-0.57	1	1	0	600	600	0
8/25/2024 21:47	52202	DEVO_T2	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
8/25/2024 21:47	20403	ASHF_T2	0	0	0	0	0	0	0.58	0.54	0	0	0	0	0	0
8/25/2024 21:47	65206	PRIN_T4	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/25/2024 21:47	60502	NMAN_T2	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
8/25/2024 21:47	45303	WBER_T2	1	6	5	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/25/2024 21:47	15203	SFAR_T2	0	0	0	0	0	0	-0.64	-0.68	0	0	0	0	0	0
8/25/2024 21:47	56504	ROCK_T2	0	0	0	0	0	0	-0.66	-0.73	0	0	0	0	0	0
8/25/2024 21:48	66504	SMAN_T2	0	2	2	0	0.15	0.15	-1.97	-2.25	2	2	0	2400	2400	0
8/25/2024 21:48	63602	LETO_T1	0	0	0	0	0	0	-0.47	-0.47	1	1	0	600	600	0
8/25/2024 21:48	63401	HONY_T1	0	0	0	0	0	0	-0.11	-0.21	1	1	0	600	600	0
8/25/2024 21:48	56501	ROCK_T2	143	7	-136	0.28	0.48	0.2	0	0	0	0	0	0	0	0
8/25/2024 21:48	11104	EGYP_T1	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
8/25/2024 21:48	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:48	62607	ENGL_T1	0	0	0	0	0	0	-0.45	-0.45	1	1	0	300	300	0
8/25/2024 21:48	53902	HALI_T2	1	1	0	4.5	5	0.5	-0.71	-0.68	0	0	0	0	0	0
8/25/2024 21:48	52002	LING_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
8/25/2024 21:48	53903	HALI_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/25/2024 21:48	67605	WARW_T1	2	1	-1	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
8/25/2024 21:48	51304	WIND_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
8/25/2024 21:48	66701	STRA_T1	0	0	0	0	0	0	0.3	0.29	1	1	0	600	600	0
8/25/2024 21:48	65001	NEFF_T2	0	0	0	0	0	0	-0.83	-0.87	1	1	0	1200	1200	0
8/25/2024 21:48	67503	WEWI_T2	1	1	0	4.8	5.5	0.7	-0.13	-0.16	0	0	0	0	0	0
8/25/2024 21:48	56504	ROCK_T2	0	0	0	0	0	0	-1.32	-1.46	0	0	0	0	0	0
8/25/2024 21:48	64301	LINC_T1	0	0	0	0	0	0	-0.46	-0.54	0	0	0	0	0	0
8/25/2024 21:48	67603	WARW_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
8/25/2024 21:48	44801	EDAN_T2	15	30	15	0.19	0.3	0.11	-1.46	-1.48	0	0	0	0	0	0
8/25/2024 21:48	52004	LING_T2	2	2	0	4.85	4.85	0	0	0	0	0	0	0	0	0
8/25/2024 21:48	64101	REFR_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
8/25/2024 21:48	45902	AUBU_T1	22	70	48	0.3	0.23	-0.07	-0.98	-1	1	1	0	600	600	0
8/25/2024 21:48	45901	AUBU_T1	0	5	5	0	0.12	0.12	1.1	1.12	0	0	0	0	0	0
8/25/2024 21:48	66505	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/25/2024 21:48	20601	GRWO_T2	3	2	-1	0.93	1	0.07	0.77	0.76	0	0	0	0	0	0
8/25/2024 21:48	65003	NEFF_T2	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
8/25/2024 21:48	40101	HUNT_T2	0	3	3	0	0	0	-1.23	-1.32	0	0	0	0	0	0
8/25/2024 21:48	44703	MUNC_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
8/25/2024 21:48	53901	HALI_T2	0	1	1	0	0.4	0.4	-1	-1.04	0	0	0	0	0	0
8/25/2024 21:48	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:49	52204	DEVO_T2	3	3	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
8/25/2024 21:49	25501	MADI_T1	4	4	0	1.75	1.67	-0.08	0	0	0	0	0	0	0	0
8/25/2024 21:49	15203	SFAR_T2	0	0	0	0	0	0	-0.64	-0.68	0	0	0	0	0	0
8/25/2024 21:49	58705	ROSE_T2	5	5	0	1.12	1.24	0.12	0	0	0	0	0	0	0	0
8/25/2024 21:49	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/25/2024 21:49	16302	ALPA_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
8/25/2024 21:49	10801	CHHI_T1	0	0	0	0	0	0	-1.5	-1.52	3	3	0	2100	2100	0
8/25/2024 21:49	66505	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/25/2024 21:49	60502	NMAN_T2	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
8/25/2024 21:49	57403	SPAN_T1	8	60	52	0.14	0.39	0.25	0	0	0	0	0	0	0	0
8/25/2024 21:49	42601	TUSC_T1	0	0	0	0	0	0	-0.33	-0.24	0	0	0	0	0	0
8/25/2024 21:49	41702	LOGA_T2	78	31	-47	0.29	0.14	-0.15	0	0	0	0	0	0	0	0
8/25/2024 21:49	51401	LYKE_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
8/25/2024 21:49	42802	SELI_T1	0	1	1	0	0.2	0.2	-1.3	-1.29	1	1	0	900	900	0
8/25/2024 21:49	10805	CHHI_T2	1	1	0	8.5	8.1	-0.4	-1.05	-1.1	1	1	0	600	600	0
8/25/2024 21:49	44203	POIN_T2	0	0	0	0	0	0	0.13	0.02	1	1	0	900	900	0
8/25/2024 21:49	53901	HALI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/25/2024 21:49	60101	COCA_T1	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
8/25/2024 21:49	66504	SMAN_T2	0	2	2	0	0.15	0.15	-0.98	-1.12	1	1	0	1200	1200	0
8/25/2024 21:49	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:49	56501	ROCK_T2	143	7	-136	0.28	0.48	0.2	-2.03	-0.76	0	0	0	0	0	0
8/25/2024 21:49	57401	SPAN_T1	0	1	1	0	0	0	-0.57	-0.57	1	1	0	600	600	0
8/25/2024 21:49	47401	PENS_T1	0	0	0	0	0	0	0.2	0.08	0	0	0	0	0	0
8/25/2024 21:49	53902	HALI_T2	1	1	0	4.5	5	0.5	-0.71	-0.68	0	0	0	0	0	0
8/25/2024 21:49	67605	WARW_T1	2	1	-1	0.9	0.8	-0.1	-1.03	-1.09	0	0	0	0	0	0
8/25/2024 21:49	46203	DANV_T2	1	1	0	6	6.8	0.8	-1.67	-1.71	0	0	0	0	0	0
8/25/2024 21:49	20403	ASHF_T2	0	0	0	0	0	0	0.58	0.54	0	0	0	0	0	0
8/25/2024 21:49	53903	HALI_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/25/2024 21:49	44202	POIN_T2	1	1	0	7.3	5	-2.3	0	0	0	0	0	0	0	0
8/25/2024 21:49	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:49	51402	LYKE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 21:49	58706	ROSE_T2	0	0	0	0	0	0	-1	-1.03	1	1	0	600	600	0
8/25/2024 21:49	25503	MADI_T1	11	59	48	0.17	0.24	0.07	-0.74	-0.75	0	0	0	0	0	0
8/25/2024 21:49	58706	ROSE_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
8/25/2024 21:49	12701	MACU_T1	0	0	0	0	0	0	-0.93	-0.9	1	1	0	1200	1200	0
8/25/2024 21:49	52202	DEVO_T2	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
8/25/2024 21:50	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:50	43103	SMIL_T2	4	11	7	0.5	0.51	0.01	-3.74	-3.82	0	0	0	0	0	0
8/25/2024 21:50	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
8/25/2024 21:50	63501	HEID_TBK1-2	55	55	0	2.43	2.05	-0.38	0	-0.02	1	1	0	900	900	0
8/25/2024 21:50	53901	HALI_T2	0	1	1	0	0.4	0.4	-1	-1.04	0	0	0	0	0	0
8/25/2024 21:50	22901	HARW_T1	0	0	0	0	0	0	-0.53	-0.55	1	1	0	1200	1200	0
8/25/2024 21:50	47203	FAXO_T2	0	0	0	0	0	0	-1.8	-1.83	1	1	0	1200	1200	0
8/25/2024 21:50	40602	PIGR_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
8/25/2024 21:50	26402	INOR_T1	0	0	0	0	0	0	-1.92	-1.96	1	1	0	600	600	0
8/25/2024 21:50	22903	HARW_T1	22	23	1	0.74	0.63	-0.11	0	0	0	0	0	0	0	0
8/25/2024 21:50	60502	NMAN_T2	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
8/25/2024 21:50	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:50	57403	SPAN_T1	8	60	52	0.14	0.39	0.25	0.36	0.33	0	0	0	0	0	0
8/25/2024 21:50	65604	QVIL_T2	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
8/25/2024 21:50	12603	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 21:50	15702	TANN_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
8/25/2024 21:50	12606	MACA_T1	26	16	-10	1.23	0.78	-0.45	0	0	0	0	0	0	0	0
8/25/2024 21:50	67605	WARW_T1	2	1	-1	0.9	0.8	-0.1	-1.03	-1.09	0	0	0	0	0	0
8/25/2024 21:50	52002	LING_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
8/25/2024 21:50	53902	HALI_T2	1	1	0	4.5	5	0.5	0	0	0	0	0	0	0	0
8/25/2024 21:50	42902	MIDD_T2	0	0	0	0	0	0	-1.18	-1.15	1	1	0	600	600	0
8/25/2024 21:50	22905	HARW_T1	13	18	5	0.9	0.98	0.08	0	0	0	0	0	0	0	0
8/25/2024 21:50	43304	WATS_T2	1	3	2	1	0	-1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/25/2024 21:50	63304	GREE_T1	14	112	98	0.2	0.17	-0.03	-2.59	-2.65	0	0	0	0	0	0
8/25/2024 21:50	55001	NEWP_T1	0	0	0	0	0	0	-0.56	-0.63	1	1	0	600	600	0
8/25/2024 21:50	47401	PENS_T1	0	0	0	0	0	0	0.2	0.08	0	0	0	0	0	0
8/25/2024 21:50	63303	GREE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/25/2024 21:50	26401	INOR_T1	1	1	0	7.7	7.9	0.2	0	0	0	0	0	0	0	0
8/25/2024 21:50	57401	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:50	53903	HALI_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/25/2024 21:50	55002	NEWP_T1	5	6	1	0.72	0.98	0.26	0	0	0	0	0	0	0	0
8/25/2024 21:50	63305	GREE_T1	8	13	5	0.2	0.22	0.02	0	0	0	0	0	0	0	0
8/25/2024 21:50	12601	MACA_T1	0	0	0	0	0	0	1.22	1.21	0	0	0	0	0	0
8/25/2024 21:50	42201	SHEN_T2	0	0	0	0	0	0	0.28	0.28	1	1	0	600	600	0
8/25/2024 21:50	53501	EVIL_T2	1	0	-1	0.9	0	-0.9	-0.01	-0.01	2	1	-1	1200	600	-600
8/25/2024 21:50	43301	WATS_T2	1	1	0	0.3	0.5	0.2	-0.36	-0.38	1	1	0	900	900	0
8/25/2024 21:50	65601	QVIL_T2	0	0	0	0	0	0	-0.56	-0.6	1	1	0	900	900	0
8/25/2024 21:50	16002	DORN_T2	0	0	0	0	0	0	-0.23	-0.21	1	1	0	1200	1200	0
8/25/2024 21:50	43105	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 21:50	66701	STRA_T1	0	0	0	0	0	0	0.3	0.29	1	1	0	600	600	0
8/25/2024 21:50	13702	SCHN_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
8/25/2024 21:50	46302	ROHR_T1	3	3	0	0.6	0.37	-0.23	0	0	0	0	0	0	0	0
8/25/2024 21:50	52004	LING_T2	2	2	0	4.85	4.85	0	0	0	0	0	0	0	0	0
8/25/2024 21:50	65401	MARI_T1	17	9	-8	1.66	0.98	-0.68	0	0	0	0	0	0	0	0
8/25/2024 21:50	40101	HUNT_T2	0	3	3	0	0	0	-1.23	-1.32	0	0	0	0	0	0
8/25/2024 21:50	61102	BERK_T5	0	0	0	0	0	0	0.13	0.09	1	1	0	300	300	0
8/25/2024 21:50	56501	ROCK_T2	143	7	-136	0.28	0.48	0.2	-2.03	-0.76	0	0	0	0	0	0
8/25/2024 21:50	46301	ROHR_T1	1	1	0	4.5	4.8	0.3	0.28	0.26	0	0	0	0	0	0
8/25/2024 21:50	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:50	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:50	43102	SMIL_T2	3	4	1	0.1	0.38	0.28	0	0	0	0	0	0	0	0
8/25/2024 21:51	44302	BEAV_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
8/25/2024 21:51	52004	LING_T2	2	2	0	4.85	4.85	0	0	0	0	0	0	0	0	0
8/25/2024 21:51	55001	NEWP_T1	0	0	0	0	0	0	-0.56	-0.63	1	1	0	600	600	0
8/25/2024 21:51	61802	EELI_T2	8	8	0	0.4	0.4	0	-0.45	-0.47	0	0	0	0	0	0
8/25/2024 21:51	43102	SMIL_T2	3	4	1	0.1	0.38	0.28	0	0	0	0	0	0	0	0
8/25/2024 21:51	55101	WERT_T1	0	0	0	0	0	0	-2.71	-1.83	4	3	-1	3300	2400	-900
8/25/2024 21:51	52002	LING_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
8/25/2024 21:51	53501	EVIL_T2	1	0	-1	0.9	0	-0.9	-0.01	-0.01	2	1	-1	1200	600	-600
8/25/2024 21:51	12006	HATF_T1	0	0	0	0	0	0	0.23	0.17	1	1	0	1200	1200	0
8/25/2024 21:51	51004	NHAR_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
8/25/2024 21:51	57104	SPHI_T2	0	0	0	0	0	0	-1.29	-1.31	1	1	0	900	900	0
8/25/2024 21:51	65205	PRIN_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
8/25/2024 21:51	66504	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/25/2024 21:51	29402	BELT_T1	1	1	0	8.5	8.8	0.3	0	0	0	0	0	0	0	0
8/25/2024 21:51	64101	REFR_T1	0	0	0	0	0	0	0.26	0.22	0	0	0	0	0	0
8/25/2024 21:51	55408	SHER_T2	1	1	0	2.8	2.7	-0.1	-0.94	-0.94	1	1	0	1200	1200	0
8/25/2024 21:51	51003	NHAR_T1	0	0	0	0	0	0	-1.92	-1.86	0	0	0	0	0	0
8/25/2024 21:51	43201	MVIL_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
8/25/2024 21:51	55002	NEWP_T1	5	6	1	0.72	0.98	0.26	0	0	0	0	0	0	0	0
8/25/2024 21:51	43103	SMIL_T2	4	11	7	0.5	0.51	0.01	-1.91	-1.93	0	0	0	0	0	0
8/25/2024 21:51	67503	WEWI_T2	1	1	0	4.8	5.5	0.7	-0.16	-0.21	0	0	0	0	0	0
8/25/2024 21:51	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
8/25/2024 21:51	51002	NHAR_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
8/25/2024 21:51	43105	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 21:51	44902	SCOT_T2	0	0	0	0	0	0	-1.93	-1.95	0	0	0	0	0	0
8/25/2024 21:51	52503	PROG_T2	0	0	0	0	0	0	-0.24	-0.25	1	1	0	900	900	0
8/25/2024 21:51	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/25/2024 21:51	67103	SPRI_T1	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
8/25/2024 21:51	61701	ELIZ_T1	1	1	0	1.1	0.8	-0.3	1.71	1.51	0	0	0	0	0	0
8/25/2024 21:51	47101	MARL_T1	4	7	3	0.85	0	-0.85	-0.48	-0.55	0	0	0	0	0	0
8/25/2024 21:51	57106	SPHI_T2	3	3	0	0.9	1.17	0.27	0	0	0	0	0	0	0	0
8/25/2024 21:51	64902	MILL_T2	0	0	0	0	0	0	-0.82	-0.86	1	1	0	900	900	0
8/25/2024 21:51	61801	EELI_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
8/25/2024 21:51	56501	ROCK_T2	143	7	-136	0.28	0.48	0.2	-4.06	-1.52	0	0	0	0	0	0
8/25/2024 21:51	43202	MVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/25/2024 21:51	66505	SMAN_T2	0	1	1	0	0.2	0.2	-0.08	-0.03	3	3	0	2100	2100	0
8/25/2024 21:52	46502	LOHA_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/25/2024 21:52	56504	ROCK_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
8/25/2024 21:52	50201	HARR_T3	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/25/2024 21:52	42902	MIDD_T2	0	0	0	0	0	0	-1.15	-1.16	1	1	0	600	600	0
8/25/2024 21:52	42802	SELI_T1	0	1	1	0	0.2	0.2	-1.29	-1.29	1	1	0	900	900	0
8/25/2024 21:52	57401	SPAN_T1	0	1	1	0	0	0	-0.57	-0.8	1	1	0	600	600	0
8/25/2024 21:52	56501	ROCK_T2	143	7	-136	0.28	0.48	0.2	0	0	0	0	0	0	0	0
8/25/2024 21:52	14702	TREX_T2	0	0	0	0	0	0	0.78	0.77	0	0	0	0	0	0
8/25/2024 21:52	61801	EELI_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
8/25/2024 21:52	53903	HALI_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/25/2024 21:52	45501	DERR_T2	0	0	0	0	0	0	-0.63	-0.58	2	2	0	1800	1800	0
8/25/2024 21:52	52404	GRPA_T2	0	1	1	0	0	0	-0.1	-0.13	0	0	0	0	0	0
8/25/2024 21:52	47002	HUGH_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/25/2024 21:52	46504	LOHA_T1	2	2	0	0.9	0.15	-0.75	0	0	0	0	0	0	0	0
8/25/2024 21:52	61802	EELI_T2	8	8	0	0.4	0.4	0	-0.45	-0.47	0	0	0	0	0	0
8/25/2024 21:52	57403	SPAN_T1	8	60	52	0.14	0.39	0.25	0.33	0.35	0	0	0	0	0	0
8/25/2024 21:52	42701	AUGU_T1	1	3	2	0.1	0	-0.1	0	0	2	2	0	1800	1800	0
8/25/2024 21:52	46501	LOHA_T1	1	0	-1	0.4	0	-0.4	0.13	0.12	1	1	0	1200	1200	0
8/25/2024 21:52	41001	LAUR_T2	82	84	2	0.84	1.3	0.46	0	0	0	0	0	0	0	0
8/25/2024 21:52	61701	ELIZ_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
8/25/2024 21:52	53901	HALI_T2	0	1	1	0	0.4	0.4	-1.04	-0.92	0	0	0	0	0	0
8/25/2024 21:52	14403	SSLA_T1	1	1	0	2.9	0	-2.9	-0.81	-0.86	1	1	0	600	600	0
8/25/2024 21:52	10801	CHHI_T1	0	0	0	0	0	0	-1.52	-1.57	3	3	0	2100	2100	0
8/25/2024 21:52	54601	SUMM_T2	0	0	0	0	0	0	-1.4	-1.44	2	2	0	2100	2100	0
8/25/2024 21:52	44703	MUNC_T2	0	2	2	0	0.4	0.4	0.07	0.03	0	0	0	0	0	0
8/25/2024 21:52	46506	LOHA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/25/2024 21:52	66504	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/25/2024 21:52	53902	HALI_T2	1	1	0	4.5	5	0.5	0	0	0	0	0	0	0	0
8/25/2024 21:52	13503	MCMI_T2	0	17	17	0	0.14	0.14	-0.73	-0.75	0	0	0	0	0	0
8/25/2024 21:52	61703	ELIZ_T1	0	0	0	0	0	0	-2.63	-2.66	2	2	0	2100	2100	0
8/25/2024 21:52	50105	HARR_T3	6	6	0	7.63	7.73	0.1	0	0	0	0	0	0	0	0
8/25/2024 21:52	66502	SMAN_T2	0	0	0	0	0	0	-1.04	-1.03	0	0	0	0	0	0
8/25/2024 21:52	64101	REFR_T1	0	0	0	0	0	0	0.26	0.22	0	0	0	0	0	0
8/25/2024 21:52	66505	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/25/2024 21:52	47001	HUGH_T2	3	3	0	7.87	8.4	0.53	-1.51	-1.59	1	1	0	900	900	0
8/25/2024 21:52	41002	LAUR_T2	57	61	4	0.8	1.28	0.48	-0.14	-0.15	0	0	0	0	0	0
8/25/2024 21:52	50107	HARR_T3	1	1	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
8/25/2024 21:52	52004	LING_T2	2	2	0	4.85	4.85	0	0.02	0	0	0	0	0	0	0
8/25/2024 21:52	67203	TEHI_T1	0	0	0	0	0	0	1.48	1.18	1	2	1	900	1500	600
8/25/2024 21:52	58102	NEKI_T1	1	1	0	1	1.4	0.4	-1.67	-1.71	1	1	0	1200	1200	0
8/25/2024 21:52	52402	GRPA_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
8/25/2024 21:52	50103	HARR_T3	0	1	1	0	0	0	0	0	1	1	0	1200	1200	0
8/25/2024 21:52	52401	GRPA_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/25/2024 21:53	42701	AUGU_T1	1	3	2	0.1	0	-0.1	0	0	2	2	0	1800	1800	0
8/25/2024 21:53	56501	ROCK_T2	143	7	-136	0.28	0.48	0.2	-1.52	-1.54	0	0	0	0	0	0
8/25/2024 21:53	61802	EELI_T2	8	8	0	0.4	0.4	0	-0.45	-0.47	0	0	0	0	0	0
8/25/2024 21:53	66703	STRA_T1	0	0	0	0	0	0	-0.75	-0.79	0	0	0	0	0	0
8/25/2024 21:53	57401	SPAN_T1	0	1	1	0	0	0	-0.57	-0.8	1	1	0	600	600	0
8/25/2024 21:53	16605	PONO_T1	0	0	0	0	0	0	0	0	1	2	1	1200	2400	1200
8/25/2024 21:53	53501	EVIL_T2	1	0	-1	0.9	0	-0.9	-0.01	-0.01	1	1	0	600	600	0
8/25/2024 21:53	14403	SSLA_T1	1	1	0	2.9	0	-2.9	-0.81	-0.86	1	1	0	600	600	0
8/25/2024 21:53	58703	ROSE_T2	0	0	0	0	0	0	-1.23	-1.25	0	0	0	0	0	0
8/25/2024 21:53	64101	REFR_T1	0	0	0	0	0	0	0.26	0.22	0	0	0	0	0	0
8/25/2024 21:53	53901	HALI_T2	0	1	1	0	0.4	0.4	-1.04	-0.92	0	0	0	0	0	0
8/25/2024 21:53	56504	ROCK_T2	0	0	0	0	0	0	-1.46	-1.48	0	0	0	0	0	0
8/25/2024 21:53	46801	HEPB_T2	3	2	-1	0.97	1.1	0.13	0	0	0	0	0	0	0	0
8/25/2024 21:53	65904	SAKR_T2	0	0	0	0	0	0	-1.9	-1.72	3	3	0	1500	1500	0
8/25/2024 21:53	55102	WERT_T2	0	0	0	0	0	0	-2.78	-1.37	2	2	0	1200	1200	0
8/25/2024 21:53	63602	LETO_T1	0	0	0	0	0	0	-0.47	-0.55	1	1	0	600	600	0
8/25/2024 21:53	61801	EELI_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
8/25/2024 21:53	43101	SMIL_T2	0	0	0	0	0	0	-0.39	-0.42	0	0	0	0	0	0
8/25/2024 21:53	43202	MVIL_T2	1	0	-1	0.4	0	-0.4	-0.82	-0.38	0	0	0	0	0	0
8/25/2024 21:53	43103	SMIL_T2	4	11	7	0.5	0.51	0.01	0	0	0	0	0	0	0	0
8/25/2024 21:53	46004	BERW_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
8/25/2024 21:53	53903	HALI_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/25/2024 21:53	65901	NAKR_T2	1	1	0	8.1	9	0.9	0	0	0	0	0	0	0	0
8/25/2024 21:53	61701	ELIZ_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
8/25/2024 21:53	20403	ASHF_T2	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
8/25/2024 21:53	61703	ELIZ_T1	0	0	0	0	0	0	-7.88	-7.97	6	6	0	6300	6300	0
8/25/2024 21:53	43105	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 21:53	10502	CRAC_T1	0	2	2	0	1.25	1.25	1.87	1.83	0	0	0	0	0	0
8/25/2024 21:53	59302	MCAL_T1	1	1	0	0.5	1.3	0.8	0	0	0	0	0	0	0	0
8/25/2024 21:53	53902	HALI_T2	1	1	0	4.5	5	0.5	-0.68	-0.75	0	0	0	0	0	0
8/25/2024 21:53	43104	SMIL_T2	0	0	0	0	0	0	-1.09	-1.13	2	2	0	600	600	0
8/25/2024 21:53	57403	SPAN_T1	8	60	52	0.14	0.39	0.25	0	0	0	0	0	0	0	0
8/25/2024 21:53	45501	DERR_T2	0	0	0	0	0	0	-0.63	-0.58	2	2	0	1800	1800	0
8/25/2024 21:53	46803	HEPB_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
8/25/2024 21:53	58705	ROSE_T2	5	5	0	1.12	1.24	0.12	0	0	0	0	0	0	0	0
8/25/2024 21:53	43102	SMIL_T2	3	4	1	0.1	0.38	0.28	0	0	0	0	0	0	0	0
8/25/2024 21:53	59301	MCAL_T1	2	2	0	0.7	1.05	0.35	-1.57	-1.6	1	1	0	600	600	0
8/25/2024 21:53	52204	DEVO_T2	3	3	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
8/25/2024 21:53	52202	DEVO_T2	0	0	0	0	0	0	-0.85	-0.9	0	0	0	0	0	0
8/25/2024 21:53	11804	FRAN_T1	0	0	0	0	0	0	0.83	0.77	0	0	0	0	0	0
8/25/2024 21:53	58706	ROSE_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
8/25/2024 21:54	47002	HUGH_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/25/2024 21:54	44801	EDAN_T2	15	30	15	0.19	0.3	0.11	-1.48	-1.48	0	0	0	0	0	0
8/25/2024 21:54	61701	ELIZ_T1	1	1	0	1.1	0.8	-0.3	1.71	1.51	0	0	0	0	0	0
8/25/2024 21:54	47001	HUGH_T2	3	3	0	7.87	8.4	0.53	-1.51	-1.59	1	1	0	900	900	0
8/25/2024 21:54	52202	DEVO_T2	0	0	0	0	0	0	-1.71	-1.8	0	0	0	0	0	0
8/25/2024 21:54	52204	DEVO_T2	3	3	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
8/25/2024 21:54	41902	REED_T1	1	3	2	0.1	1.33	1.23	0.23	0.24	0	0	0	0	0	0
8/25/2024 21:54	41901	REED_T1	3	5	2	0.2	0.22	0.02	0	0	0	0	0	0	0	0
8/25/2024 21:54	13702	SCHN_T1	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
8/25/2024 21:54	46203	DANV_T2	1	1	0	6	6.8	0.8	-3.41	-3.54	0	0	0	0	0	0
8/25/2024 21:54	20603	GRWO_T2	0	0	0	0	0	0	-0.49	-0.45	1	1	0	900	900	0
8/25/2024 21:54	51201	MTON_T1	0	0	0	0	0	0	0.61	0.55	0	0	0	0	0	0
8/25/2024 21:54	53902	HALI_T2	1	1	0	4.5	5	0.5	0	0	0	0	0	0	0	0
8/25/2024 21:54	20601	GRWO_T2	3	2	-1	0.93	1	0.07	0	0	0	0	0	0	0	0
8/25/2024 21:54	63401	HONY_T1	0	0	0	0	0	0	-0.21	-0.13	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/25/2024 21:54	44202	POIN_T2	1	1	0	7.3	5	-2.3	0	0	0	0	0	0	0	0
8/25/2024 21:54	44203	POIN_T2	0	0	0	0	0	0	0.02	-0.04	1	1	0	900	900	0
8/25/2024 21:54	12302	LANA_T2	0	0	0	0	0	0	-2.23	-2.25	3	3	0	2700	2700	0
8/25/2024 21:54	47101	MARL_T1	4	7	3	0.85	0	-0.85	-0.96	-1.09	0	0	0	0	0	0
8/25/2024 21:54	56501	ROCK_T2	143	7	-136	0.28	0.48	0.2	-0.76	-0.77	0	0	0	0	0	0
8/25/2024 21:54	42701	AUGU_T1	1	3	2	0.1	0	-0.1	0	0	2	2	0	1800	1800	0
8/25/2024 21:54	57403	SPAN_T1	8	60	52	0.14	0.39	0.25	0	0	0	0	0	0	0	0
8/25/2024 21:54	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:54	53901	HALI_T2	0	1	1	0	0.4	0.4	-1.04	-0.92	0	0	0	0	0	0
8/25/2024 21:54	53903	HALI_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/25/2024 21:54	47401	PENS_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
8/25/2024 21:54	42503	ALTA_T2	1	0	-1	4.1	0	-4.1	-0.59	-0.59	0	0	0	0	0	0
8/25/2024 21:54	58402	MORO_T1	0	0	0	0	0	0	-0.32	-0.25	2	2	0	1500	1500	0
8/25/2024 21:54	53501	EVIL_T2	1	0	-1	0.9	0	-0.9	-0.01	-0.01	1	1	0	600	600	0
8/25/2024 21:54	42802	SELI_T1	0	1	1	0	0.2	0.2	-1.29	-1.29	1	1	0	900	900	0
8/25/2024 21:54	46901	MINTG_T2	0	0	0	0	0	0	-0.96	-0.81	1	1	0	1200	1200	0
8/25/2024 21:54	53502	EVIL_T2	0	0	0	0	0	0	0.21	0.29	1	1	0	600	600	0
8/25/2024 21:54	57401	SPAN_T1	0	1	1	0	0	0	-0.57	-0.8	1	1	0	600	600	0
8/25/2024 21:55	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:55	22903	HARW_T1	22	23	1	0.74	0.63	-0.11	0	0	0	0	0	0	0	0
8/25/2024 21:55	64101	REFR_T1	0	0	0	0	0	0	0.26	0.22	0	0	0	0	0	0
8/25/2024 21:55	44801	EDAN_T2	15	30	15	0.19	0.3	0.11	-1.48	-1.48	0	0	0	0	0	0
8/25/2024 21:55	22901	HARW_T1	0	0	0	0	0	0	-0.55	-0.68	1	1	0	1200	1200	0
8/25/2024 21:55	22905	HARW_T1	13	18	5	0.9	0.98	0.08	0	0	0	0	0	0	0	0
8/25/2024 21:55	55101	WERT_T1	0	0	0	0	0	0	-3.65	-3.74	6	6	0	4800	4800	0
8/25/2024 21:55	47401	PENS_T1	0	0	0	0	0	0	0.15	0.19	0	0	0	0	0	0
8/25/2024 21:55	42701	AUGU_T1	1	3	2	0.1	0	-0.1	0	0	2	2	0	1800	1800	0
8/25/2024 21:55	43202	MVIL_T2	1	0	-1	0.4	0	-0.4	-0.82	-0.38	0	0	0	0	0	0
8/25/2024 21:55	42802	SELI_T1	0	1	1	0	0.2	0.2	-1.29	-1.29	1	1	0	900	900	0
8/25/2024 21:55	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:56	65902	SAKR_T2	0	0	0	0	0	0	-1.17	-1.17	0	0	0	0	0	0
8/25/2024 21:56	44801	EDAN_T2	15	30	15	0.19	0.3	0.11	-1.48	-1.48	0	0	0	0	0	0
8/25/2024 21:56	42802	SELI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/25/2024 21:56	66703	STRA_T1	0	0	0	0	0	0	-0.75	-0.79	0	0	0	0	0	0
8/25/2024 21:56	40902	JESH_T1	0	0	0	0	0	0	-1.15	-1.12	1	1	0	600	600	0
8/25/2024 21:56	43102	SMIL_T2	3	4	1	0.1	0.38	0.28	0	0	0	0	0	0	0	0
8/25/2024 21:56	47101	MARL_T1	4	7	3	0.85	0	-0.85	-0.96	-1.09	0	0	0	0	0	0
8/25/2024 21:56	52002	LING_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
8/25/2024 21:56	42801	SELI_T1	0	0	0	0	0	0	-1.7	-1.78	1	1	0	1200	1200	0
8/25/2024 21:56	55001	NEWP_T1	0	0	0	0	0	0	-0.63	-0.64	1	1	0	600	600	0
8/25/2024 21:56	45501	DERR_T2	0	0	0	0	0	0	-0.63	-0.58	2	2	0	1800	1800	0
8/25/2024 21:56	65901	SAKR_T2	1	1	0	8.1	9	0.9	0	0	0	0	0	0	0	0
8/25/2024 21:56	57205	ROSS_T1	0	0	0	0	0	0	-0.81	-0.84	0	0	0	0	0	0
8/25/2024 21:56	58702	ROSE_T2	0	0	0	0	0	0	-2.13	-2.15	0	0	0	0	0	0
8/25/2024 21:56	43104	SMIL_T2	0	0	0	0	0	0	-0.54	-0.57	1	1	0	300	300	0
8/25/2024 21:56	55002	NEWP_T1	5	6	1	0.72	0.98	0.26	0	0	0	0	0	0	0	0
8/25/2024 21:56	45303	WBER_T2	1	6	5	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/25/2024 21:56	58705	ROSE_T2	5	5	0	1.12	1.24	0.12	0	0	0	0	0	0	0	0
8/25/2024 21:56	53801	MBRG_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 21:56	43105	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 21:56	54001	SDLE_T1	0	1	1	0	0.2	0.2	0	0	1	1	0	600	600	0
8/25/2024 21:56	44302	BEAV_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
8/25/2024 21:56	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:56	53802	MBRG_T2	0	0	0	0	0	0	0.35	0.29	0	0	0	0	0	0
8/25/2024 21:56	40101	HUNT_T2	0	3	3	0	0	0	-1.32	-1.34	0	0	0	0	0	0
8/25/2024 21:56	58706	ROSE_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
8/25/2024 21:56	52004	LING_T2	2	2	0	4.85	4.85	0	0	0	0	0	0	0	0	0
8/25/2024 21:56	16605	PONO_T1	0	0	0	0	0	0	0	0	1	2	1	1200	2400	1200
8/25/2024 21:56	45802	HEGI_T2	10	9	-1	0.39	0.34	-0.05	0.74	0.82	0	0	0	0	0	0
8/25/2024 21:56	45302	WBER_T2	0	0	0	0	0	0	1.2	1.16	0	0	0	0	0	0
8/25/2024 21:56	55101	WERT_T1	0	0	0	0	0	0	-1.83	-1.87	3	3	0	2400	2400	0
8/25/2024 21:56	43103	SMIL_T2	4	11	7	0.5	0.51	0.01	0	0	0	0	0	0	0	0
8/25/2024 21:57	46101	MACI_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
8/25/2024 21:57	52402	GRPA_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
8/25/2024 21:57	43102	SMIL_T2	3	4	1	0.1	0.38	0.28	0	0	0	0	0	0	0	0
8/25/2024 21:57	43105	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 21:57	44301	BEAV_T2	0	0	0	0	0	0	-1.38	-1.41	1	1	0	600	600	0
8/25/2024 21:57	58706	ROSE_T2	1	1	0	0.8	0.7	-0.1	0.99	0.97	1	1	0	600	600	0
8/25/2024 21:57	61703	ELIZ_T1	0	0	0	0	0	0	-2.63	-2.66	2	2	0	2100	2100	0
8/25/2024 21:57	61701	ELIZ_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
8/25/2024 21:57	47101	MARL_T1	4	7	3	0.85	0	-0.85	0	0	0	0	0	0	0	0
8/25/2024 21:57	52101	MEIS_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/25/2024 21:57	43103	SMIL_T2	4	11	7	0.5	0.51	0.01	-3.82	-3.85	0	0	0	0	0	0
8/25/2024 21:57	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:57	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
8/25/2024 21:57	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:57	58705	ROSE_T2	5	5	0	1.12	1.24	0.12	0	0	0	0	0	0	0	0
8/25/2024 21:57	54701	NEBL_T1	0	1	1	0	0.3	0.3	0	0	1	1	0	600	600	0
8/25/2024 21:57	55101	WERT_T1	0	0	0	0	0	0	-1.83	-1.87	3	3	0	2400	2400	0
8/25/2024 21:57	46203	DANV_T2	1	1	0	6	6.8	0.8	-1.71	-1.77	0	0	0	0	0	0
8/25/2024 21:57	20403	ASHF_T2	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
8/25/2024 21:57	47104	MARL_T1	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
8/25/2024 21:57	12701	MACU_T1	0	0	0	0	0	0	-0.9	-0.95	1	1	0	1200	1200	0
8/25/2024 21:57	58703	ROSE_T2	0	0	0	0	0	0	-1.23	-1.25	0	0	0	0	0	0
8/25/2024 21:57	52401	GRPA_T2	1	1	0	0.1	0.5	0.4	-0.38	-0.41	0	0	0	0	0	0
8/25/2024 21:57	66703	STRA_T1	0	0	0	0	0	0	-0.75	-0.79	0	0	0	0	0	0
8/25/2024 21:58	46506	LOHA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/25/2024 21:58	52002	LING_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
8/25/2024 21:58	44301	BEAV_T2	0	0	0	0	0	0	-1.38	-1.41	1	1	0	600	600	0
8/25/2024 21:58	46501	LOHA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/25/2024 21:58	52004	LING_T2	2	2	0	4.85	4.85	0	0	0	0	0	0	0	0	0
8/25/2024 21:58	58401	MORO_T1	0	0	0	0	0	0	-1.33	-1.37	2	2	0	1200	1200	0
8/25/2024 21:58	50103	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:58	50105	HARR_T3	6	6	0	7.63	7.73	0.1	0	0	0	0	0	0	0	0
8/25/2024 21:58	52401	GRPA_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/25/2024 21:58	64101	REFR_T1	0	0	0	0	0	0	0.52	0.43	0	0	0	0	0	0
8/25/2024 21:58	46001	BERW_T1	0	0	0	0	0	0	-3.09	-3.15	0	0	0	0	0	0
8/25/2024 21:58	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:58	42201	SHEN_T2	0	0	0	0	0	0	0.28	0.27	1	1	0	600	600	0
8/25/2024 21:58	52403	GRPA_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
8/25/2024 21:58	43202	MVIL_T2	1	0	-1	0.4	0	-0.4	-0.82	-0.38	0	0	0	0	0	0
8/25/2024 21:58	46502	LOHA_T1	1	1	0	0.2	0.3	0.1	-2.44	-2.45	2	2	0	2400	2400	0
8/25/2024 21:58	50107	HARR_T3	1	1	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
8/25/2024 21:58	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:58	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 21:58	46504	LOHA_T1	2	2	0	0.9	0.15	-0.75	0	0	0	0	0	0	0	0
8/25/2024 21:58	42802	SELI_T1	0	1	1	0	0.2	0.2	-1.29	-1.29	1	1	0	900	900	0
8/25/2024 21:58	46203	DANV_T2	1	1	0	6	6.8	0.8	-1.71	-1.77	0	0	0	0	0	0
8/25/2024 21:58	52402	GRPA_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
8/25/2024 21:58	55101	WERT_T1	0	0	0	0	0	0	-1.83	-1.87	3	3	0	2400	2400	0
8/25/2024 21:58	40902	JESH_T1	0	0	0	0	0	0	-2.3	-2.23	2	2	0	1200	1200	0
8/25/2024 21:58	61701	ELIZ_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
8/25/2024 21:58	50201	HARR_T3	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/25/2024 21:59	53902	HALI_T2	1	1	0	4.5	5	0.5	-0.68	-0.75	0	0	0	0	0	0
8/25/2024 21:59	58706	ROSE_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
8/25/2024 21:59	59302	MCAL_T1	1	1	0	0.5	1.3	0.8	0	0	0	0	0	0	0	0
8/25/2024 21:59	64203	KINZ_T1	0	0	0	0	0	0	-0.51	0.01	2	1	-1	900	600	-300
8/25/2024 21:59	46203	DANV_T2	1	1	0	6	6.8	0.8	-1.71	-1.77	0	0	0	0	0	0
8/25/2024 21:59	44203	POIN_T2	0	0	0	0	0	0	0.02	-0.04	1	1	0	900	900	0
8/25/2024 21:59	44301	BEAV_T2	0	0	0	0	0	0	-4.13	-4.23	3	3	0	1800	1800	0
8/25/2024 21:59	57403	SPAN_T1	8	60	52	0.14	0.39	0.25	0	0	0	0	0	0	0	0
8/25/2024 21:59	57401	SPAN_T1	0	1	1	0	0	0	-0.57	-0.8	1	1	0	600	600	0
8/25/2024 21:59	58702	ROSE_T2	0	0	0	0	0	0	-2.13	-2.15	0	0	0	0	0	0
8/25/2024 21:59	58705	ROSE_T2	5	5	0	1.12	1.24	0.12	0	0	0	0	0	0	0	0
8/25/2024 21:59	53501	EVIL_T2	1	0	-1	0.9	0	-0.9	-0.01	-0.01	1	1	0	600	600	0
8/25/2024 21:59	61702	ELIZ_T2	0	1	1	0	0	0	-1.54	-1.54	2	2	0	1500	1500	0
8/25/2024 21:59	53901	HALI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/25/2024 21:59	42902	MIDD_T2	0	0	0	0	0	0	-1.15	-1.16	1	1	0	600	600	0
8/25/2024 21:59	53903	HALI_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/25/2024 21:59	59101	WALK_T2	0	0	0	0	0	0	1.26	1.36	4	4	0	2400	2400	0
8/25/2024 21:59	64204	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
8/25/2024 21:59	64202	KINZ_T1	1	3	2	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/25/2024 21:59	44202	POIN_T2	1	1	0	7.3	5	-2.3	0	0	0	0	0	0	0	0
8/25/2024 21:59	58401	MORO_T1	0	0	0	0	0	0	-1.33	-1.37	2	2	0	1200	1200	0
8/25/2024 21:59	59301	MCAL_T1	2	2	0	0.7	1.05	0.35	-1.57	-1.6	1	1	0	600	600	0
8/25/2024 22:00	54001	SDLE_T1	0	1	1	0	0.2	0.2	0	0	1	1	0	600	600	0
8/25/2024 22:00	61801	EELI_T2	1	1	0	1.1	0.8	-0.3	0.19	0.18	0	0	0	0	0	0
8/25/2024 22:00	64101	REFR_T1	0	0	0	0	0	0	0.26	0.22	0	0	0	0	0	0
8/25/2024 22:00	46504	LOHA_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
8/25/2024 22:00	46506	LOHA_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/25/2024 22:00	46502	LOHA_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/25/2024 22:00	46501	LOHA_T1	0	0	0	0	0	0	0.13	0.12	1	1	0	1200	1200	0
8/25/2024 22:00	61802	EELI_T2	8	8	0	0.64	0.35	-0.29	0	0	0	0	0	0	0	0
8/25/2024 22:01	21501	CEAV_T2	0	0	0	0	0	0	0.31	0.29	1	1	0	1200	1200	0
8/25/2024 22:01	59302	MCAL_T1	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
8/25/2024 22:01	43102	SMIL_T2	4	5	1	0.28	0.32	0.04	0	0	0	0	0	0	0	0
8/25/2024 22:01	46801	HEPB_T2	2	2	0	1	1.3	0.3	-0.08	-0.12	0	0	0	0	0	0
8/25/2024 22:01	43103	SMIL_T2	11	10	-1	0.51	0.45	-0.06	0	0	0	0	0	0	0	0
8/25/2024 22:01	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 22:01	59301	MCAL_T1	2	2	0	0.4	1.05	0.65	0	0	0	0	0	0	0	0
8/25/2024 22:01	43105	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/25/2024 22:01	42201	SHEN_T2	0	0	0	0	0	0	0.28	0.27	1	1	0	600	600	0
8/25/2024 22:01	67605	WARW_T1	1	5	4	0.8	0.26	-0.54	-2.19	-2.23	0	0	0	0	0	0
8/25/2024 22:01	43104	SMIL_T2	0	0	0	0	0	0	-0.54	-0.57	1	1	0	300	300	0
8/25/2024 22:01	40902	JESH_T1	0	0	0	0	0	0	-1.15	-1.12	1	1	0	600	600	0
8/25/2024 22:01	53601	DALM_T2	1	1	0	0.8	0.5	-0.3	-0.33	-0.21	0	0	0	0	0	0
8/25/2024 22:02	63303	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/25/2024 22:02	59301	MCAL_T1	2	2	0	0.4	1.05	0.65	-1.57	-1.6	1	1	0	600	600	0
8/25/2024 22:02	63304	GREE_T1	112	45	-67	0.17	0.17	0	-2.65	-2.7	0	0	0	0	0	0
8/25/2024 22:02	65401	MARI_T1	9	12	3	0.98	1.11	0.13	0	0	0	0	0	0	0	0
8/25/2024 22:02	61402	SLIT_T1	1	1	0	3.8	2.6	-1.2	0	0	0	0	0	0	0	0
8/25/2024 22:02	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/25/2024 22:02	59302	MCAL_T1	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/25/2024 22:02	63305	GREE_T1	13	3	-10	0.22	0.17	-0.05	0	0	0	0	0	0	0	0
8/25/2024 22:02	59102	WALK_T2	0	0	0	0	0	0	-0.18	-0.18	1	1	0	600	600	0
8/25/2024 22:02	63602	LETO_T1	0	0	0	0	0	0	-0.47	-0.55	1	1	0	600	600	0
8/25/2024 22:02	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 22:02	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 22:02	64101	REFR_T1	0	0	0	0	0	0	0.26	0.22	0	0	0	0	0	0
8/25/2024 22:02	40902	JESH_T1	0	0	0	0	0	0	-1.15	-1.12	1	1	0	600	600	0
8/25/2024 22:03	52202	DEVO_T2	0	0	0	0	0	0	-0.85	-0.9	0	0	0	0	0	0
8/25/2024 22:03	52402	GRPA_T2	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
8/25/2024 22:03	46203	DANV_T2	1	1	0	6	7	1	-1.71	-1.77	0	0	0	0	0	0
8/25/2024 22:03	65401	MARI_T1	9	12	3	0.98	1.11	0.13	0	0	0	0	0	0	0	0
8/25/2024 22:03	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 22:03	55002	NEWP_T1	5	6	1	0.94	0.98	0.04	0	0	0	0	0	0	0	0
8/25/2024 22:03	55001	NEWP_T1	0	0	0	0	0	0	-0.63	-0.64	1	1	0	600	600	0
8/25/2024 22:03	58401	MORO_T1	0	0	0	0	0	0	-1.33	-1.37	2	2	0	1200	1200	0
8/25/2024 22:03	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 22:03	52403	GRPA_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
8/25/2024 22:03	53501	EVIL_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	1	1	0	600	600	0
8/25/2024 22:03	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/25/2024 22:03	52204	DEVO_T2	3	3	0	0.77	0.3	-0.47	0	0	0	0	0	0	0	0
8/25/2024 22:03	64101	REFR_T1	0	0	0	0	0	0	0.52	0.43	0	0	0	0	0	0
8/25/2024 22:03	42902	MIDD_T2	0	0	0	0	0	0	-1.15	-1.16	1	1	0	600	600	0
8/25/2024 22:03	52401	GRPA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/25/2024 22:04	57403	SPAN_T1	12	59	47	0.34	0.39	0.05	0	0	0	0	0	0	0	0
8/25/2024 22:04	45402	WBLO_T2	1	2	1	1.4	0.75	-0.65	-1.37	-1.34	1	1	0	900	900	0
8/25/2024 22:04	63305	GREE_T1	13	3	-10	0.22	0.17	-0.05	0	0	0	0	0	0	0	0
8/25/2024 22:04	57401	SPAN_T1	1	0	-1	2.7	0	-2.7	-0.57	-0.8	1	1	0	600	600	0
8/25/2024 22:04	63303	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/25/2024 22:04	63304	GREE_T1	112	45	-67	0.17	0.17	0	0	0	0	0	0	0	0	0
8/25/2024 22:04	58202	NEWV_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
8/25/2024 22:04	55101	WERT_T1	0	0	0	0	0	0	-1.83	-1.87	3	3	0	2400	2400	0
8/25/2024 22:04	63302	GREE_T1	0	0	0	0	0	0	-0.59	0.41	0	0	0	0	0	0
8/25/2024 22:04	47101	MARL_T1	3	4	1	0.57	1.2	0.63	-0.48	-0.55	0	0	0	0	0	0
8/25/2024 22:05	41902	REED_T1	3	3	0	1.33	0.67	-0.66	0.23	0.24	0	0	0	0	0	0
8/25/2024 22:05	44905	SCOT_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/25/2024 22:05	65401	MARI_T1	9	12	3	0.98	1.11	0.13	0	0	0	0	0	0	0	0
8/25/2024 22:05	44301	BEAV_T2	0	0	0	0	0	0	-1.38	-1.41	1	1	0	600	600	0
8/25/2024 22:05	41901	REED_T1	5	4	-1	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
8/25/2024 22:05	53601	DALM_T2	1	1	0	0.8	0.5	-0.3	-0.33	-0.21	0	0	0	0	0	0
8/25/2024 22:05	52402	GRPA_T2	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
8/25/2024 22:05	52403	GRPA_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
8/25/2024 22:05	42701	AUGU_T1	3	0	-3	0.53	0	-0.53	0	0	0	0	0	0	0	0
8/25/2024 22:05	52401	GRPA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/25/2024 22:05	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/25/2024 22:05	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 22:05	47101	MARL_T1	3	4	1	0.57	1.2	0.63	-0.48	-0.55	0	0	0	0	0	0
8/25/2024 22:05	47401	PENS_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
8/25/2024 22:06	58401	MORO_T1	0	0	0	0	0	0	-1.33	-1.37	2	2	0	1200	1200	0
8/25/2024 22:06	46901	MNTG_T2	0	0	0	0	0	0	-0.81	-0.9	1	1	0	1200	1200	0
8/25/2024 22:06	42902	MIDD_T2	0	0	0	0	0	0	-1.16	-1.15	1	1	0	600	600	0
8/25/2024 22:06	52002	LING_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
8/25/2024 22:06	59101	WALK_T2	0	0	0	0	0	0	0.63	0.68	2	2	0	1200	1200	0
8/25/2024 22:06	52004	LING_T2	2	2	0	4.65	4.85	0.2	0	0	0	0	0	0	0	0
8/25/2024 22:06	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2024 22:07	41901	REED_T1	5	4	-1	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
8/25/2024 22:07	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/25/2024 22:07	52403	GRPA_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
8/25/2024 22:07	44302	BEAV_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
8/25/2024 22:07	42802	SELI_T1	1	0	-1	0.2	0	-0.2	-1.29	-1.37	1	1	0	900	900	0
8/25/2024 22:07	52402	GRPA_T2	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
8/25/2024 22:07	52401	GRPA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/25/2024 22:07	41902	REED_T1	3	0	-3	1.33	0.67	-0.66	0.24	0.22	0	0	0	0	0	0
8/25/2024 22:08	46501	LOHA_T1	0	0	0	0	0	0	0.12	0.09	1	1	0	1200	1200	0
8/25/2024 22:08	46504	LOHA_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
8/25/2024 22:08	46502	LOHA_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/25/2024 22:08	46506	LOHA_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/25/2024 22:08	42802	SELI_T1	1	0	-1	0.2	0	-0.2	-1.29	-1.37	1	1	0	900	900	0
8/25/2024 22:22	41002	LAUR_T2	61	61	0	1.25	1.15	-0.1	-0.17	-0.17	0	0	0	0	0	0
8/25/2024 22:22	41001	LAUR_T2	83	85	2	1.31	1.11	-0.2	0	0	0	0	0	0	0	0
8/26/2024 0:22	64101	REFR_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
8/26/2024 1:24	64501	LAVI_T1	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
8/26/2024 1:55	65901	SAKR_T2	1	1	0	9.2	9.4	0.2	-1.22	-1.27	1	1	0	900	900	0
8/26/2024 1:58	46102	MACJ_T1	0	0	0	0	0	0	0.83	0.81	0	0	0	0	0	0
8/26/2024 5:03	63201	MGTN_T2	0	0	0	0	0	0	0.12	0.17	1	1	0	600	600	0
8/26/2024 7:27	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/26/2024 7:28	54505	ENOL_T2	0	0	0	0	0	0	-1.28	-1.25	1	1	0	600	600	0
8/26/2024 7:31	63305	GREE_T1	0	8	8	0	0.26	0.26	0	0	0	0	0	0	0	0
8/26/2024 7:31	63306	GREE_T1	0	0	0	0	0	0	-2.14	-2.06	1	1	0	900	900	0
8/26/2024 7:35	64904	MILL_T1	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
8/26/2024 7:41	29402	BELT_T1	1	1	0	7.5	8.5	1	0	0	0	0	0	0	0	0
8/26/2024 7:41	29401	BELT_T1	0	36	36	0	0.18	0.18	0	0	1	1	0	900	900	0
8/26/2024 7:45	12006	HATF_T1	0	0	0	0	0	0	-0.08	-0.08	2	2	0	2400	2400	0
8/26/2024 7:47	60502	NMAN_T2	1	0	-1	0.1	0	-0.1	-0.15	-0.12	0	0	0	0	0	0
8/26/2024 7:47	64904	MILL_T1	0	0	0	0	0	0	-0.31	-0.16	0	0	0	0	0	0
8/26/2024 7:49	64904	MILL_T1	0	0	0	0	0	0	-0.31	-0.16	0	0	0	0	0	0
8/26/2024 7:50	56501	ROCK_T2	2	2	0	0.2	0.75	0.55	-1.22	-1.22	0	0	0	0	0	0
8/26/2024 7:50	64903	MILL_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
8/26/2024 7:51	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 7:51	66505	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 7:53	15702	TANN_T2	0	0	0	0	0	0	-0.32	-0.3	0	0	0	0	0	0
8/26/2024 7:53	15703	TANN_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
8/26/2024 7:53	59101	WALK_T2	1	1	0	2.1	0.7	-1.4	1.29	1.25	2	1	-1	1200	600	-600
8/26/2024 7:54	45602	WOOL_T1	1	0	-1	0.2	0	-0.2	0.7	0.75	0	0	0	0	0	0
8/26/2024 7:55	40301	TAMA_T3	1	1	0	0	0	0	0.56	0.71	2	2	0	1800	1800	0
8/26/2024 7:56	40802	EXCH_T2	0	1	1	0	0.1	0.1	-0.38	-0.22	0	0	0	0	0	0
8/26/2024 7:57	40802	EXCH_T2	0	1	1	0	0.1	0.1	-0.38	-0.22	0	0	0	0	0	0
8/26/2024 7:57	45602	WOOL_T1	1	0	-1	0.2	0	-0.2	0.7	0.75	0	0	0	0	0	0
8/26/2024 7:57	53601	DALM_T2	1	1	0	0.4	1.1	0.7	-0.19	-0.17	1	1	0	900	900	0
8/26/2024 7:59	40802	EXCH_T2	0	1	1	0	0.1	0.1	-0.38	-0.22	0	0	0	0	0	0
8/26/2024 8:00	40101	HUNT_T2	0	1	1	0	0	0	-0.47	-0.42	0	0	0	0	0	0
8/26/2024 8:03	64701	LITI_T1	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
8/26/2024 8:05	41902	REED_T1	0	0	0	0	0	0	1.09	1.11	0	0	0	0	0	0
8/26/2024 8:07	42501	ALTA_T2	0	0	0	0	0	0	-1.01	-1.03	1	1	0	600	600	0
8/26/2024 8:07	42503	ALTA_T2	0	1	1	0	8.1	8.1	0	0	0	0	0	0	0	0
8/26/2024 8:09	42503	ALTA_T2	0	1	1	0	8.1	8.1	0	0	0	0	0	0	0	0
8/26/2024 8:09	45501	DERR_T2	0	0	0	0	0	0	0.65	0.76	2	2	0	1800	1800	0
8/26/2024 8:09	42501	ALTA_T2	0	0	0	0	0	0	-1.01	-1.03	1	1	0	600	600	0
8/26/2024 8:11	44802	EDAN_T2	0	0	0	0	0	0	-1.67	-1.45	0	0	0	0	0	0
8/26/2024 8:11	44801	EDAN_T2	182	122	-60	0.5	0.46	-0.04	0	0	0	0	0	0	0	0
8/26/2024 8:12	44801	EDAN_T2	182	122	-60	0.5	0.46	-0.04	0	0	0	0	0	0	0	0
8/26/2024 8:12	44802	EDAN_T2	0	0	0	0	0	0	-0.56	-0.48	0	0	0	0	0	0
8/26/2024 8:13	55508	HERS_T2	2	2	0	0.95	1.5	0.55	-2.48	-2.44	1	1	0	1200	1200	0
8/26/2024 8:13	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 8:14	44801	EDAN_T2	182	122	-60	0.5	0.46	-0.04	-1.56	-1.58	0	0	0	0	0	0
8/26/2024 8:14	45501	DERR_T2	0	0	0	0	0	0	0.65	0.76	2	2	0	1800	1800	0
8/26/2024 8:14	44802	EDAN_T2	0	0	0	0	0	0	-0.56	-0.48	0	0	0	0	0	0
8/26/2024 8:15	55508	HERS_T2	2	2	0	1.5	1.45	-0.05	0	0	0	0	0	0	0	0
8/26/2024 8:18	46102	MACJ_T1	0	0	0	0	0	0	0.86	0.84	0	0	0	0	0	0
8/26/2024 8:18	15603	NSTR_T2	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
8/26/2024 8:18	42903	MIDD_T2	2	2	0	0.75	0.7	-0.05	-0.01	-0.1	1	1	0	1200	1200	0
8/26/2024 8:18	15601	NSTR_T2	3	3	0	0.53	0.47	-0.06	0	0	0	0	0	0	0	0
8/26/2024 8:19	23001	SAJO_T1	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
8/26/2024 8:20	41902	REED_T1	0	0	0	0	0	0	1.11	1.11	0	0	0	0	0	0
8/26/2024 8:21	14201	EALL_T1	0	0	0	0	0	0	0.82	0.83	0	0	0	0	0	0
8/26/2024 8:21	41902	REED_T1	0	0	0	0	0	0	1.11	1.18	0	0	0	0	0	0
8/26/2024 8:22	59101	WALK_T2	1	1	0	0.7	2.3	1.6	3.94	3.42	0	2	2	0	1200	1200
8/26/2024 8:25	67505	WEWI_T1	0	0	0	0	0	0	0.14	0.13	1	1	0	900	900	0
8/26/2024 8:25	22002	BOHE_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
8/26/2024 8:27	46002	BERW_T2	0	0	0	0	0	0	-1.11	-0.97	1	1	0	900	900	0
8/26/2024 8:34	15204	SFAR_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
8/26/2024 8:35	15204	SFAR_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
8/26/2024 8:36	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 8:36	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 8:36	60502	NMAN_T2	1	1	0	0.2	0.1	-0.1	0.01	-0.01	0	0	0	0	0	0
8/26/2024 8:37	23001	SAJO_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
8/26/2024 8:37	66703	STRA_T1	0	0	0	0	0	0	-0.65	-0.49	0	0	0	0	0	0
8/26/2024 8:37	66701	STRA_T1	0	0	0	0	0	0	0.58	0.35	2	2	0	1200	1200	0
8/26/2024 8:40	49804	UNIV_T1	0	0	0	0	0	0	1.39	1.35	0	0	0	0	0	0
8/26/2024 8:40	49803	UNIV_T1	1	1	0	4.6	4.8	0.2	0	0	0	0	0	0	0	0
8/26/2024 8:40	44301	BEAV_T2	2	1	-1	1.4	0	-1.4	0.05	0.12	2	2	0	1500	1500	0
8/26/2024 8:41	66703	STRA_T1	0	0	0	0	0	0	-0.65	-0.49	0	0	0	0	0	0
8/26/2024 8:41	15702	TANN_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
8/26/2024 8:41	44301	BEAV_T2	2	1	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
8/26/2024 8:41	15703	TANN_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
8/26/2024 8:41	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 8:42	10705	CATA_T2	0	0	0	0	0	0	-0.66	-0.59	1	1	0	900	900	0
8/26/2024 8:42	16006	DORN_T2	0	0	0	0	0	0	1.09	1.12	0	0	0	0	0	0
8/26/2024 8:45	16006	DORN_T2	0	0	0	0	0	0	1.09	1.12	0	0	0	0	0	0
8/26/2024 8:46	44801	EDAN_T2	48	41	-7	0.34	0.24	-0.1	-1.57	-1.53	0	0	0	0	0	0
8/26/2024 8:48	40602	PIGR_T1	1	1	0	0.2	0.3	0.1	-1.02	-0.92	1	1	0	600	600	0
8/26/2024 8:48	40601	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 8:50	47403	PENS_T1	1	1	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
8/26/2024 8:50	47401	PENS_T1	6	2	-4	0.4	0.65	0.25	0.37	0.37	0	0	0	0	0	0
8/26/2024 8:51	47403	PENS_T1	1	1	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
8/26/2024 8:51	43202	MVIL_T2	0	0	0	0	0	0	-0.27	-0.65	0	0	0	0	0	0
8/26/2024 8:51	13303	ORVI_T1	0	0	0	0	0	0	0.04	-0.02	0	0	0	0	0	0
8/26/2024 8:51	47401	PENS_T1	6	2	-4	0.4	0.65	0.25	0.19	0.27	0	0	0	0	0	0
8/26/2024 8:53	67503	WEWI_T2	1	1	0	8.3	8.1	-0.2	0	0	0	0	0	0	0	0
8/26/2024 8:53	67502	WEWI_T2	0	1	1	0	0.1	0.1	-0.94	-0.91	1	1	0	900	900	0
8/26/2024 8:54	67502	WEWI_T2	0	1	1	0	0.1	0.1	-0.94	-0.91	1	1	0	900	900	0
8/26/2024 8:54	67503	WEWI_T2	1	1	0	8.3	8.1	-0.2	0.16	0.12	0	0	0	0	0	0
8/26/2024 8:56	67502	WEWI_T2	0	1	1	0	0.1	0.1	-0.94	-0.91	1	1	0	900	900	0
8/26/2024 8:56	67503	WEWI_T2	1	1	0	8.3	8.1	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/26/2024 8:57	67803	WLAN_T1	0	0	0	0	0	0	-1.36	-1.37	0	0	0	0	0	0
8/26/2024 8:59	40101	HUNT_T2	2	8	6	0.95	1.15	0.2	-0.21	-0.18	0	0	0	0	0	0
8/26/2024 9:04	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 9:04	56501	ROCK_T2	4	3	-1	0.65	0.73	0.08	-1.11	-1.04	0	0	0	0	0	0
8/26/2024 9:06	64101	REFR_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
8/26/2024 9:07	56501	ROCK_T2	4	3	-1	0.65	0.73	0.08	-1.04	-0.99	0	0	0	0	0	0
8/26/2024 9:10	67503	WEWI_T2	1	1	0	8.1	7.6	-0.5	0.12	0.24	0	0	0	0	0	0
8/26/2024 9:10	20401	ASHF_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/26/2024 9:10	20403	ASHF_T2	0	0	0	0	0	0	1.48	1.52	0	0	0	0	0	0
8/26/2024 9:10	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 9:11	59101	WALK_T2	1	2	1	1.8	0.7	-1.1	1.54	1.73	1	1	0	600	600	0
8/26/2024 9:12	20403	ASHF_T2	0	0	0	0	0	0	1.48	1.52	0	0	0	0	0	0
8/26/2024 9:12	20401	ASHF_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
8/26/2024 9:12	44301	BEAV_T2	0	2	2	0	0	0	-0.27	0.31	2	2	0	1500	1500	0
8/26/2024 9:12	53501	EVIL_T2	1	2	1	1	0.85	-0.15	-0.02	-0.02	6	6	0	3600	3600	0
8/26/2024 9:13	46203	DANV_T2	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
8/26/2024 9:13	46206	DANV_T2	23	27	4	0.33	0.69	0.36	6.1	6.08	2	2	0	2400	2400	0
8/26/2024 9:14	53501	EVIL_T2	1	2	1	1	0.85	-0.15	-0.01	-0.01	4	4	0	2400	2400	0
8/26/2024 9:14	46203	DANV_T2	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
8/26/2024 9:14	45802	HEGI_T2	5	3	-2	0.18	0.35	0.17	1.58	1.5	2	2	0	1800	1800	0
8/26/2024 9:14	46206	DANV_T2	23	27	4	0.33	0.69	0.36	3.05	3.04	1	1	0	1200	1200	0
8/26/2024 9:15	47001	HUGH_T2	3	3	0	8.43	8.27	-0.16	-0.52	-0.45	0	0	0	0	0	0
8/26/2024 9:16	11507	FREE_T2	1	0	-1	0.3	0	-0.3	0.71	1.01	0	0	0	0	0	0
8/26/2024 9:17	63403	HONY_T2	0	0	0	0	0	0	-0.25	-0.18	1	1	0	600	600	0
8/26/2024 9:18	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 9:19	55002	NEWP_T1	8	5	-3	0.86	0.78	-0.08	-0.13	-0.12	0	0	0	0	0	0
8/26/2024 9:20	55002	NEWP_T1	8	5	-3	0.86	0.78	-0.08	-0.13	-0.12	0	0	0	0	0	0
8/26/2024 9:21	66504	SMAN_T2	0	0	0	0	0	0	0.43	0.8	0	0	0	0	0	0
8/26/2024 9:23	20401	ASHF_T2	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
8/26/2024 9:23	66504	SMAN_T2	0	0	0	0	0	0	0.22	0.4	0	0	0	0	0	0
8/26/2024 9:23	20403	ASHF_T2	0	0	0	0	0	0	1.52	1.61	0	0	0	0	0	0
8/26/2024 9:23	42201	SHEN_T2	0	0	0	0	0	0	0.22	0.22	1	1	0	600	600	0
8/26/2024 9:24	20403	ASHF_T2	0	0	0	0	0	0	1.52	1.61	0	0	0	0	0	0
8/26/2024 9:24	20401	ASHF_T2	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
8/26/2024 9:24	41902	REED_T1	2	1	-1	0.15	0	-0.15	1.23	0.4	0	1	1	0	900	900
8/26/2024 9:34	43201	MVIL_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
8/26/2024 9:34	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
8/26/2024 9:35	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
8/26/2024 9:36	44203	POIN_T2	0	0	0	0	0	0	0.09	0.08	2	2	0	2100	2100	0
8/26/2024 9:36	14801	TREI_T2	2	2	0	0.1	0.25	0.15	0.78	0.78	0	0	0	0	0	0
8/26/2024 9:37	55101	WERT_T1	0	0	0	0	0	0	-1.82	-1.53	4	4	0	3300	3300	0
8/26/2024 9:38	55101	WERT_T1	0	0	0	0	0	0	-1.82	-1.53	4	4	0	3300	3300	0
8/26/2024 9:39	45902	AUBU_T1	0	0	0	0	0	0	-0.35	-0.27	1	1	0	600	600	0
8/26/2024 9:40	48302	ORWI_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
8/26/2024 9:40	55101	WERT_T1	0	0	0	0	0	0	-1.82	-1.53	4	4	0	3300	3300	0
8/26/2024 9:41	55101	WERT_T1	0	0	0	0	0	0	-1.82	-1.53	4	4	0	3300	3300	0
8/26/2024 9:42	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 9:42	29402	BELT_T1	1	1	0	6.7	7.2	0.5	0	0	0	0	0	0	0	0
8/26/2024 9:43	67605	WARW_T1	1	1	0	0.1	0.1	0	-1.65	-1.63	0	0	0	0	0	0
8/26/2024 9:44	25402	LAHA_T2	0	0	0	0	0	0	-0.49	-0.47	0	0	0	0	0	0
8/26/2024 9:45	53502	EVIL_T2	0	0	0	0	0	0	0.56	0.73	2	2	0	1200	1200	0
8/26/2024 9:45	53501	EVIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/26/2024 9:45	23202	HIRU_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
8/26/2024 9:45	46501	LOHA_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/26/2024 9:45	25402	LAHA_T2	0	0	0	0	0	0	-0.49	-0.47	0	0	0	0	0	0
8/26/2024 9:47	46501	LOHA_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/26/2024 9:47	64902	MILL_T2	0	0	0	0	0	0	-0.86	-0.82	1	1	0	900	900	0
8/26/2024 9:48	60502	NMAN_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
8/26/2024 9:49	55001	NEWP_T1	0	0	0	0	0	0	0.11	0.18	0	0	0	0	0	0
8/26/2024 9:49	55002	NEWP_T1	4	4	0	0.63	0.63	0	0	0	0	0	0	0	0	0
8/26/2024 9:49	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 9:49	64101	REFR_T1	0	0	0	0	0	0	0.15	0.19	0	0	0	0	0	0
8/26/2024 9:50	48302	ORWI_T2	1	2	1	0.2	0.35	0.15	0.28	-0.31	0	0	0	0	0	0
8/26/2024 9:50	64902	MILL_T2	0	0	0	0	0	0	-0.86	-0.82	1	1	0	900	900	0
8/26/2024 9:51	55001	NEWP_T1	0	0	0	0	0	0	0.11	0.18	0	0	0	0	0	0
8/26/2024 9:51	64101	REFR_T1	0	0	0	0	0	0	0.78	0.84	0	0	0	0	0	0
8/26/2024 9:51	55002	NEWP_T1	4	4	0	0.63	0.63	0	0	0	0	0	0	0	0	0
8/26/2024 9:51	55405	SHER_T1	11	11	0	0.69	0.88	0.19	-0.17	-0.17	0	0	0	0	0	0
8/26/2024 9:52	48302	ORWI_T2	1	2	1	0.2	0.35	0.15	-0.31	-0.23	0	0	0	0	0	0
8/26/2024 9:52	64101	REFR_T1	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
8/26/2024 9:53	14801	TREI_T2	2	4	2	4.25	0.45	-3.8	0	0	0	0	0	0	0	0
8/26/2024 9:53	14402	SSLA_T1	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
8/26/2024 9:53	14401	SSLA_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/26/2024 9:53	14802	TREI_T2	0	0	0	0	0	0	0.76	0.81	0	0	0	0	0	0
8/26/2024 9:54	55002	NEWP_T1	4	4	0	0.63	0.63	0	0	0	0	0	0	0	0	0
8/26/2024 9:54	55001	NEWP_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
8/26/2024 9:54	64101	REFR_T1	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
8/26/2024 9:56	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 9:57	45902	AUBU_T1	0	0	0	0	0	0	-0.27	-0.23	1	1	0	600	600	0
8/26/2024 9:57	64602	LEOL_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
8/26/2024 9:58	64101	REFR_T1	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
8/26/2024 9:58	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 10:00	64602	LEOL_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
8/26/2024 10:00	28102	TWLA_T2	5	2	-3	0.16	0.2	0.04	0.24	0.23	0	0	0	0	0	0
8/26/2024 10:00	15603	NSTR_T2	0	1	1	0	0	0	-0.23	-0.24	0	0	0	0	0	0
8/26/2024 10:00	44203	POIN_T2	0	0	0	0	0	0	0.08	0.18	2	2	0	2100	2100	0
8/26/2024 10:00	53501	EVIL_T2	1	0	-1	0.5	0	-0.5	-0.01	-0.01	2	2	0	1200	1200	0
8/26/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-1.63	-1.64	2	2	0	1800	1800	0
8/26/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
8/26/2024 10:00	15601	NSTR_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
8/26/2024 10:00	16402	MORO_T1	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
8/26/2024 10:00	64904	MILL_T1	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0
8/26/2024 10:00	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 10:00	67503	WEWI_T2	1	1	0	7.7	7.3	-0.4	0.26	0.3	0	0	0	0	0	0
8/26/2024 10:00	40301	TAMA_T3	1	1	0	0	0	0	1.43	1.55	2	2	0	1800	1800	0
8/26/2024 10:00	15703	TANN_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
8/26/2024 10:00	47401	PENS_T1	2	2	0	0.7	0.7	0	0.78	0.95	0	0	0	0	0	0
8/26/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
8/26/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
8/26/2024 10:00	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 10:00	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 10:00	48302	ORWI_T2	2	1	-1	0.35	0.5	0.15	-0.31	-0.23	0	0	0	0	0	0
8/26/2024 10:00	20601	GRWO_T2	84	122	38	0.43	0.53	0.1	2.63	2.64	0	0	0	0	0	0
8/26/2024 10:00	47403	PENS_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
8/26/2024 10:00	15702	TANN_T2	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
8/26/2024 10:03	64802	MONE_T2	0	0	0	0	0	0	0.6	0.64	0	0	0	0	0	0
8/26/2024 10:07	29402	BELT_T1	1	1	0	7	6.7	-0.3	0	0	0	0	0	0	0	0
8/26/2024 10:07	48302	ORWI_T2	2	1	-1	0.35	0.5	0.15	-0.23	-0.3	0	0	0	0	0	0
8/26/2024 10:07	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 10:08	29402	BELT_T1	1	1	0	7	6.7	-0.3	0	0	0	0	0	0	0	0
8/26/2024 10:08	55101	WERT_T1	0	1	1	0	0	0	-3.17	-2.85	8	8	0	6600	6600	0
8/26/2024 10:08	67503	WEWI_T2	1	1	0	7.7	7.3	-0.4	0.3	0.29	0	0	0	0	0	0
8/26/2024 10:08	16203	POFA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 10:08	20401	ASHF_T2	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
8/26/2024 10:08	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 10:08	59101	WALK_T2	1	0	-1	2.3	0	-2.3	1.31	1.19	2	2	0	1200	1200	0
8/26/2024 10:08	20403	ASHF_T2	0	1	1	0	0.1	0.1	1.67	1.58	0	0	0	0	0	0
8/26/2024 10:08	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 10:08	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 10:09	67605	WARW_T1	0	0	0	0	0	0	-1.52	-1.52	0	0	0	0	0	0
8/26/2024 10:09	15204	SFAR_T2	0	0	0	0	0	0	0.61	0.55	0	0	0	0	0	0
8/26/2024 10:09	59101	WALK_T2	1	0	-1	2.3	0	-2.3	2.62	2.39	4	4	0	2400	2400	0
8/26/2024 10:09	67603	WARW_T1	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
8/26/2024 10:10	55101	WERT_T1	0	1	1	0	0	0	-4.75	-4.28	12	12	0	9900	9900	0
8/26/2024 10:10	67505	WEWI_T1	0	0	0	0	0	0	0.39	0.47	1	1	0	900	900	0
8/26/2024 10:10	67803	WLAN_T1	0	0	0	0	0	0	-1.27	-1.22	0	0	0	0	0	0
8/26/2024 10:10	20401	ASHF_T2	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
8/26/2024 10:10	20403	ASHF_T2	0	1	1	0	0.1	0.1	3.33	3.16	0	0	0	0	0	0
8/26/2024 10:10	45501	DERR_T2	0	0	0	0	0	0	0.78	1.14	2	2	0	1800	1800	0
8/26/2024 10:10	67804	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 10:11	16101	BING_T2	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
8/26/2024 10:11	10801	CHHI_T1	0	0	0	0	0	0	-0.89	-0.83	2	2	0	1500	1500	0
8/26/2024 10:11	48302	ORWI_T2	2	1	-1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
8/26/2024 10:11	45902	AUBU_T1	0	0	0	0	0	0	-0.45	-0.33	2	2	0	1200	1200	0
8/26/2024 10:11	53502	EVIL_T2	0	0	0	0	0	0	0.18	0.19	3	3	0	2100	2100	0
8/26/2024 10:11	45501	DERR_T2	0	0	0	0	0	0	1.55	2.28	4	4	0	3600	3600	0
8/26/2024 10:11	53501	EVIL_T2	1	0	-1	0.5	0	-0.5	-0.01	-0.01	2	2	0	1200	1200	0
8/26/2024 10:12	53501	EVIL_T2	1	0	-1	0.5	0	-0.5	-0.01	-0.01	2	2	0	1200	1200	0
8/26/2024 10:12	55101	WERT_T1	0	1	1	0	0	0	-1.58	-1.43	4	4	0	3300	3300	0
8/26/2024 10:13	16605	PONO_T1	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
8/26/2024 10:14	63403	HONY_T2	0	0	0	0	0	0	-0.1	-0.08	1	1	0	600	600	0
8/26/2024 10:14	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 10:14	11507	FREE_T2	1	3	2	0.2	0.35	0.15	1.04	1.07	0	0	0	0	0	0
8/26/2024 10:14	53601	DALM_T2	1	2	1	0.3	0	-0.3	-0.04	-0.04	1	1	0	900	900	0
8/26/2024 10:15	44801	EDAN_T2	34	48	14	0.27	0.37	0.1	-1.43	-1.35	0	0	0	0	0	0
8/26/2024 10:15	53501	EVIL_T2	0	0	0	0	0	0	-0.02	-0.02	8	8	0	4800	4800	0
8/26/2024 10:16	25501	MADI_T1	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
8/26/2024 10:16	41702	LOGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 10:16	26402	INOR_T1	0	0	0	0	0	0	-1.68	-1.53	1	1	0	600	600	0
8/26/2024 10:16	23202	HIRU_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
8/26/2024 10:16	25402	LAHA_T2	0	0	0	0	0	0	-0.36	-0.31	0	0	0	0	0	0
8/26/2024 10:16	13905	SEID_T1	0	0	0	0	0	0	-0.71	-0.69	1	1	0	1200	1200	0
8/26/2024 10:16	44801	EDAN_T2	34	48	14	0.27	0.37	0.1	-1.43	-1.35	0	0	0	0	0	0
8/26/2024 10:16	25502	MADI_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/26/2024 10:16	26401	INOR_T1	7	18	11	1.14	1.17	0.03	0	0	0	0	0	0	0	0
8/26/2024 10:16	25503	MADI_T1	4	9	5	0.23	0.2	-0.03	-0.77	-0.76	0	0	0	0	0	0
8/26/2024 10:17	12801	MICK_T1	0	0	0	0	0	0	-0.43	-0.38	1	1	0	600	600	0
8/26/2024 10:17	45802	HEGI_T2	0	24	24	0	0.47	0.47	1.24	1.42	2	2	0	1800	1800	0
8/26/2024 10:17	25402	LAHA_T2	0	0	0	0	0	0	-0.36	-0.31	0	0	0	0	0	0
8/26/2024 10:19	56501	ROCK_T2	2	5	3	0.3	1.85	1.55	0	0	0	0	0	0	0	0
8/26/2024 10:19	56504	ROCK_T2	0	0	0	0	0	0	0.21	0.25	0	0	0	0	0	0
8/26/2024 10:19	65205	PRIN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 10:19	64204	KINZ_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/26/2024 10:19	64201	KINZ_T1	0	1	1	0	0	0	0.05	-0.52	4	4	0	2100	2100	0
8/26/2024 10:19	64203	KINZ_T1	1	4	3	1	0.8	-0.2	0	0	0	0	0	0	0	0
8/26/2024 10:20	42201	SHEN_T2	0	1	1	0	0	0	0.32	0.31	1	1	0	600	600	0
8/26/2024 10:20	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 10:20	56501	ROCK_T2	2	5	3	0.3	1.85	1.55	-0.89	-0.87	0	0	0	0	0	0
8/26/2024 10:21	66703	STRA_T1	0	0	0	0	0	0	-0.22	-0.27	0	0	0	0	0	0
8/26/2024 10:22	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 10:22	60502	NMAN_T2	0	0	0	0	0	0	0.27	0.46	0	0	0	0	0	0
8/26/2024 10:23	66703	STRA_T1	0	0	0	0	0	0	-0.22	-0.27	0	0	0	0	0	0
8/26/2024 10:24	56501	ROCK_T2	2	5	3	0.3	1.85	1.55	-0.87	-0.88	0	0	0	0	0	0
8/26/2024 10:24	42201	SHEN_T2	0	1	1	0	0	0	0.31	0.31	1	1	0	600	600	0
8/26/2024 10:24	57403	SPAN_T1	6	1	-5	0.17	0.4	0.23	0.28	0.29	0	0	0	0	0	0
8/26/2024 10:24	57401	SPAN_T1	4	2	-2	3.08	7.35	4.27	0	0	0	0	0	0	0	0
8/26/2024 10:26	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 10:26	44301	BEAV_T2	1	3	2	1.6	0.85	-0.75	0	0	0	0	0	0	0	0
8/26/2024 10:28	45902	AUBU_T1	0	0	0	0	0	0	-0.17	-0.19	1	1	0	600	600	0
8/26/2024 10:29	45902	AUBU_T1	0	0	0	0	0	0	-0.17	-0.19	1	1	0	600	600	0
8/26/2024 10:32	40101	HUNT_T2	8	149	141	0.28	0.39	0.11	-0.2	-0.14	0	0	0	0	0	0
8/26/2024 10:33	53501	EVIL_T2	0	1	1	0	1.2	1.2	-0.01	-0.01	2	2	0	1200	1200	0
8/26/2024 10:34	53501	EVIL_T2	0	1	1	0	1.2	1.2	-0.01	-0.01	2	2	0	1200	1200	0
8/26/2024 10:35	42801	SELI_T1	0	0	0	0	0	0	-0.87	-0.78	1	1	0	1200	1200	0
8/26/2024 10:36	42601	TUSC_T1	0	2	2	0	0.1	0.1	0.53	0.57	2	2	0	1800	1800	0
8/26/2024 10:36	44203	POIN_T2	0	0	0	0	0	0	0.09	0.12	2	2	0	2100	2100	0
8/26/2024 10:36	55002	NEWP_T1	3	2	-1	0.73	1.15	0.42	0	0	0	0	0	0	0	0
8/26/2024 10:36	42302	MOWR_T2	0	0	0	0	0	0	0.4	0.34	0	0	0	0	0	0
8/26/2024 10:36	55001	NEWP_T1	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
8/26/2024 10:36	44202	POIN_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/26/2024 10:36	64101	REFR_T1	0	0	0	0	0	0	0.29	0.33	0	0	0	0	0	0
8/26/2024 10:36	56501	ROCK_T2	3	2	-1	0.23	0.3	0.07	-0.87	-0.88	0	0	0	0	0	0
8/26/2024 10:37	56501	ROCK_T2	3	2	-1	0.23	0.3	0.07	-0.88	-0.78	0	0	0	0	0	0
8/26/2024 10:37	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	1.69	1.79	0	0	0	0	0	0
8/26/2024 10:37	20401	ASHF_T2	2	4	2	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
8/26/2024 10:37	44203	POIN_T2	0	0	0	0	0	0	0.09	0.12	2	2	0	2100	2100	0
8/26/2024 10:37	66504	SMAN_T2	0	0	0	0	0	0	-0.7	-0.71	1	1	0	1200	1200	0
8/26/2024 10:37	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 10:37	44202	POIN_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/26/2024 10:38	56501	ROCK_T2	3	2	-1	0.23	0.3	0.07	-0.88	-0.78	0	0	0	0	0	0
8/26/2024 10:38	64101	REFR_T1	0	0	0	0	0	0	1.16	1.31	0	0	0	0	0	0
8/26/2024 10:38	55001	NEWP_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
8/26/2024 10:38	57403	SPAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/26/2024 10:38	61102	BERK_T5	0	0	0	0	0	0	0.99	0.14	1	2	1	300	1200	900
8/26/2024 10:38	42503	ALTA_T2	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
8/26/2024 10:38	57401	SPAN_T1	1	1	0	6.1	3.4	-2.7	-0.27	-0.32	1	1	0	600	600	0
8/26/2024 10:38	55002	NEWP_T1	3	2	-1	0.73	1.15	0.42	0	0	0	0	0	0	0	0
8/26/2024 10:39	64101	REFR_T1	0	0	0	0	0	0	0.29	0.33	0	0	0	0	0	0
8/26/2024 10:39	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 10:39	20401	ASHF_T2	2	4	2	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
8/26/2024 10:39	57403	SPAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/26/2024 10:39	61102	BERK_T5	0	0	0	0	0	0	0.99	0.14	1	2	1	300	1200	900
8/26/2024 10:39	56501	ROCK_T2	3	2	-1	0.23	0.3	0.07	-0.88	-0.78	0	0	0	0	0	0
8/26/2024 10:39	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	1.69	1.79	0	0	0	0	0	0
8/26/2024 10:39	57401	SPAN_T1	1	1	0	6.1	3.4	-2.7	-0.53	-0.64	2	2	0	1200	1200	0
8/26/2024 10:39	66505	SMAN_T2	0	0	0	0	0	0	0.43	0.39	3	3	0	2100	2100	0
8/26/2024 10:39	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 10:40	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 10:40	57403	SPAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/26/2024 10:40	64101	REFR_T1	0	0	0	0	0	0	0.29	0.33	0	0	0	0	0	0
8/26/2024 10:40	57401	SPAN_T1	1	1	0	6.1	3.4	-2.7	-0.27	-0.32	1	1	0	600	600	0
8/26/2024 10:40	66504	SMAN_T2	0	0	0	0	0	0	-1.4	-1.43	2	2	0	2400	2400	0
8/26/2024 10:41	61102	BERK_T5	0	0	0	0	0	0	0.99	0.14	1	2	1	300	1200	900
8/26/2024 10:41	46001	BERW_T1	0	0	0	0	0	0	-1.08	-1.11	0	0	0	0	0	0
8/26/2024 10:41	57403	SPAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/26/2024 10:41	43108	SMIL_T2	0	0	0	0	0	0	-0.64	-0.63	1	1	0	1200	1200	0
8/26/2024 10:41	43105	SMIL_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
8/26/2024 10:41	57401	SPAN_T1	1	1	0	6.1	3.4	-2.7	-0.27	-0.32	1	1	0	600	600	0
8/26/2024 10:41	64101	REFR_T1	0	0	0	0	0	0	0.58	0.65	0	0	0	0	0	0
8/26/2024 10:42	61102	BERK_T5	0	0	0	0	0	0	1.99	0.27	2	4	2	600	2400	1800
8/26/2024 10:43	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 10:44	45902	AUBU_T1	0	0	0	0	0	0	-0.19	-0.07	1	1	0	600	600	0
8/26/2024 10:45	10801	CHHI_T1	0	6	6	0	0.47	0.47	-0.63	-1.29	2	3	1	1500	2100	600
8/26/2024 10:46	12402	MILF_T1	34	58	24	0.7	0.54	-0.16	1.05	1.08	0	0	0	0	0	0
8/26/2024 10:47	44203	POIN_T2	0	1	1	0	0	0	0.09	0.12	2	2	0	2100	2100	0
8/26/2024 10:47	63202	MGTN_T2	0	0	0	0	0	0	-1.81	-1.96	1	1	0	900	900	0
8/26/2024 10:50	55002	NEWP_T1	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
8/26/2024 10:50	42601	TUSC_T1	2	3	1	0.15	0	-0.15	0.53	0.57	2	2	0	1800	1800	0
8/26/2024 10:50	55001	NEWP_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
8/26/2024 10:51	65904	SAKR_T2	0	0	0	0	0	0	-1.67	-1.65	3	3	0	1500	1500	0
8/26/2024 10:51	65901	SAKR_T2	1	1	0	7.5	7.9	0.4	0	0	0	0	0	0	0	0
8/26/2024 10:52	55002	NEWP_T1	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
8/26/2024 10:52	55001	NEWP_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
8/26/2024 10:53	12302	LANA_T2	0	0	0	0	0	0	-1.03	-2.29	2	3	1	1500	2700	1200
8/26/2024 10:54	67503	WEWI_T2	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
8/26/2024 10:54	67502	WEWI_T2	1	2	1	0.1	0.4	0.3	-0.62	-0.68	1	1	0	900	900	0
8/26/2024 10:57	46004	BERW_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
8/26/2024 10:57	67503	WEWI_T2	1	1	0	7	6.8	-0.2	0.39	0.37	0	0	0	0	0	0
8/26/2024 10:57	67502	WEWI_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
8/26/2024 10:58	46203	DANV_T2	1	1	0	7	6.8	-0.2	-0.28	-0.31	0	0	0	0	0	0
8/26/2024 10:58	46206	DANV_T2	3	6	3	1.03	1.27	0.24	0	0	0	0	0	0	0	0
8/26/2024 10:59	52403	GRPA_T2	6	8	2	0.58	0.7	0.12	0.4	0.49	0	0	0	0	0	0
8/26/2024 11:00	52404	GRPA_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
8/26/2024 11:00	52403	GRPA_T2	4	9	5	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
8/26/2024 11:01	52402	GRPA_T2	0	0	0	0	0	0	-0.71	-0.65	0	0	0	0	0	0
8/26/2024 11:01	52403	GRPA_T2	4	9	5	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
8/26/2024 11:02	40101	HUNT_T2	148	227	79	0.41	0.34	-0.07	-0.12	-0.09	0	0	0	0	0	0
8/26/2024 11:02	23401	HONE_T2	0	0	0	0	0	0	0.22	0.17	0	0	0	0	0	0
8/26/2024 11:03	40101	HUNT_T2	148	227	79	0.41	0.34	-0.07	-0.12	-0.09	0	0	0	0	0	0
8/26/2024 11:04	64203	KINZ_T1	3	4	1	0.97	1.33	0.36	0.17	0.12	3	3	0	2100	2100	0
8/26/2024 11:04	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 11:04	58401	MORO_T1	0	0	0	0	0	0	-4.18	-4.2	4	4	0	3000	3000	0
8/26/2024 11:04	64204	KINZ_T1	1	2	1	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
8/26/2024 11:05	56504	ROCK_T2	0	1	1	0	0	0	0.37	0.31	0	0	0	0	0	0
8/26/2024 11:05	56501	ROCK_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
8/26/2024 11:06	15603	NSTR_T2	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
8/26/2024 11:06	15601	NSTR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 11:07	53801	MBRG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 11:07	53802	MBRG_T2	0	0	0	0	0	0	0.8	0.7	0	0	0	0	0	0
8/26/2024 11:07	56504	ROCK_T2	0	1	1	0	0	0	0.15	0.15	0	0	0	0	0	0
8/26/2024 11:07	56501	ROCK_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
8/26/2024 11:08	44202	POIN_T2	0	1	1	0	0	0	-0.19	-0.23	1	1	0	1200	1200	0
8/26/2024 11:08	44203	POIN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 11:09	29402	BELT_T1	20	4	-16	0.74	2.7	1.96	0	0	0	0	0	0	0	0
8/26/2024 11:09	60101	COCA_T1	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
8/26/2024 11:09	56504	ROCK_T2	0	1	1	0	0	0	0.15	0.15	0	0	0	0	0	0
8/26/2024 11:09	56501	ROCK_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
8/26/2024 11:10	55101	WERT_T1	0	0	0	0	0	0	-1.93	-1.94	4	4	0	3300	3300	0
8/26/2024 11:10	56501	ROCK_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
8/26/2024 11:10	56504	ROCK_T2	0	1	1	0	0	0	0.15	0.15	0	0	0	0	0	0
8/26/2024 11:10	67505	WEWI_T1	0	0	0	0	0	0	0.58	0.55	1	1	0	900	900	0
8/26/2024 11:11	11104	EGYP_T1	5	5	0	0.24	0.46	0.22	1.05	1.08	0	0	0	0	0	0
8/26/2024 11:11	14801	TREI_T2	2	2	0	0.7	0.6	-0.1	0.27	0.29	0	0	0	0	0	0
8/26/2024 11:11	11102	EGYP_T1	1	3	2	0.4	1.1	0.7	0	0	0	0	0	0	0	0
8/26/2024 11:11	11101	EGYP_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/26/2024 11:13	11101	EGYP_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/26/2024 11:13	11104	EGYP_T1	5	5	0	0.24	0.46	0.22	1.05	1.08	0	0	0	0	0	0
8/26/2024 11:13	11102	EGYP_T1	1	3	2	0.4	1.1	0.7	0	0	0	0	0	0	0	0
8/26/2024 11:14	60101	COCA_T1	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
8/26/2024 11:14	21501	CEAV_T2	0	0	0	0	0	0	0	0.01	1	1	0	1200	1200	0
8/26/2024 11:14	61701	ELIZ_T1	2	2	0	0.55	0.95	0.4	1.97	2.16	0	0	0	0	0	0
8/26/2024 11:15	61701	ELIZ_T1	2	2	0	0.75	0.85	0.1	1.97	2.16	0	0	0	0	0	0
8/26/2024 11:15	53601	HALM_T2	1	1	0	0.6	1	0.4	-0.02	-0.01	1	1	0	900	900	0
8/26/2024 11:15	11102	EGYP_T1	2	3	1	1.2	1.2	0	0	0	0	0	0	0	0	0
8/26/2024 11:15	11101	EGYP_T1	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/26/2024 11:15	11104	EGYP_T1	5	5	0	0.46	0.4	-0.06	1.05	1.08	0	0	0	0	0	0
8/26/2024 11:16	64201	KINZ_T1	1	0	-1	0.3	0	-0.3	-0.35	-0.51	4	4	0	2100	2100	0
8/26/2024 11:16	64204	KINZ_T1	2	2	0	0.35	1.2	0.85	0	0	0	0	0	0	0	0
8/26/2024 11:16	61701	ELIZ_T1	2	2	0	0.75	0.85	0.1	1.97	2.16	0	0	0	0	0	0
8/26/2024 11:16	64203	KINZ_T1	4	4	0	1.33	1.28	-0.05	0	0	0	0	0	0	0	0
8/26/2024 11:17	12701	MACU_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
8/26/2024 11:18	12701	MACU_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
8/26/2024 11:18	43202	MVIL_T2	0	0	0	0	0	0	-0.14	-0.71	0	0	0	0	0	0
8/26/2024 11:18	63302	GREE_T1	0	0	0	0	0	0	0.17	0.21	0	0	0	0	0	0
8/26/2024 11:18	64902	MILL_T2	0	0	0	0	0	0	-0.69	-0.62	1	1	0	900	900	0
8/26/2024 11:18	64204	KINZ_T1	2	2	0	0.35	1.2	0.85	0	0	0	0	0	0	0	0
8/26/2024 11:18	64203	KINZ_T1	4	4	0	1.33	1.28	-0.05	0	0	0	0	0	0	0	0
8/26/2024 11:18	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 11:18	64201	KINZ_T1	1	0	-1	0.3	0	-0.3	-0.35	-0.51	4	4	0	2100	2100	0
8/26/2024 11:19	40101	HUNT_T2	152	210	58	0.36	0.36	0	-0.09	-0.11	0	0	0	0	0	0
8/26/2024 11:21	66703	STRA_T1	0	0	0	0	0	0	-0.14	-0.07	0	0	0	0	0	0
8/26/2024 11:21	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 11:21	66701	STRA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/26/2024 11:21	43202	MVIL_T2	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
8/26/2024 11:22	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 11:22	66703	STRA_T1	0	0	0	0	0	0	-0.14	-0.07	0	0	0	0	0	0
8/26/2024 11:22	15603	NSTR_T2	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
8/26/2024 11:22	66701	STRA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/26/2024 11:22	43202	MVIL_T2	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
8/26/2024 11:22	21705	SUBU_T1	1	1	0	6.3	5.8	-0.5	1	1.04	0	0	0	0	0	0
8/26/2024 11:22	21701	SUBU_T1	1	1	0	6.7	6.2	-0.5	0	0	0	0	0	0	0	0
8/26/2024 11:24	67203	TEHI_T1	8	7	-1	0.51	0	-0.51	2.49	2.15	3	3	0	2100	2100	0
8/26/2024 11:24	53102	WTWN_T1	0	0	0	0	0	0	-0.96	-0.96	0	0	0	0	0	0
8/26/2024 11:25	53102	WTWN_T1	0	0	0	0	0	0	-0.96	-0.96	0	0	0	0	0	0
8/26/2024 11:25	60101	COCA_T1	0	0	0	0	0	0	0.9	1	0	0	0	0	0	0
8/26/2024 11:30	60101	COCA_T1	0	0	0	0	0	0	0.9	1	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/26/2024 11:31	46903	MNTG_T2	2	5	3	0.65	0.56	-0.09	0	0	0	0	0	0	0	0
8/26/2024 11:31	60101	COCA_T1	0	0	0	0	0	0	1.81	2.01	0	0	0	0	0	0
8/26/2024 11:31	46902	MNTG_T2	0	0	0	0	0	0	-0.5	-0.48	1	1	0	600	600	0
8/26/2024 11:33	52002	LING_T2	1	1	0	0.8	0	-0.8	0.6	0.67	0	0	0	0	0	0
8/26/2024 11:33	52004	LING_T2	2	3	1	4.85	3.1	-1.75	0	0	0	0	0	0	0	0
8/26/2024 11:34	52002	LING_T2	1	1	0	0.8	0	-0.8	0.6	0.67	0	0	0	0	0	0
8/26/2024 11:34	52004	LING_T2	2	3	1	4.85	3.1	-1.75	0	0	0	0	0	0	0	0
8/26/2024 11:34	46903	MNTG_T2	2	5	3	0.65	0.56	-0.09	0.49	0.42	1	1	0	600	600	0
8/26/2024 11:35	42802	SELI_T1	0	0	0	0	0	0	-0.59	-0.54	1	1	0	900	900	0
8/26/2024 11:36	56501	ROCK_T2	2	3	1	5.55	0.3	-5.25	-0.71	-0.66	0	0	0	0	0	0
8/26/2024 11:36	25801	SUTR_T2	2	3	1	8.35	5.77	-2.58	0.29	0.32	0	0	0	0	0	0
8/26/2024 11:37	42802	SELI_T1	0	0	0	0	0	0	-0.54	-0.56	1	1	0	900	900	0
8/26/2024 11:38	42802	SELI_T1	0	0	0	0	0	0	-1.09	-1.12	2	2	0	1800	1800	0
8/26/2024 11:39	42802	SELI_T1	0	0	0	0	0	0	-0.54	-0.56	1	1	0	900	900	0
8/26/2024 11:40	42802	SELI_T1	0	0	0	0	0	0	-1.09	-1.12	2	2	0	1800	1800	0
8/26/2024 11:42	52202	DEVO_T2	0	0	0	0	0	0	-1.63	-1.59	0	0	0	0	0	0
8/26/2024 11:42	52204	DEVO_T2	5	6	1	0.66	0.43	-0.23	0	0	0	0	0	0	0	0
8/26/2024 11:44	52202	DEVO_T2	0	0	0	0	0	0	-1.63	-1.59	0	0	0	0	0	0
8/26/2024 11:44	52204	DEVO_T2	5	6	1	0.66	0.43	-0.23	0	0	0	0	0	0	0	0
8/26/2024 11:48	41001	LAUR_T2	2	4	2	1.25	1.15	-0.1	0	0	0	0	0	0	0	0
8/26/2024 11:48	41002	LAUR_T2	1	4	3	1.7	1.4	-0.3	0.2	0.22	0	0	0	0	0	0
8/26/2024 11:49	23002	SAJO_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
8/26/2024 11:49	23001	SAJO_T1	0	2	2	0	0.45	0.45	-0.1	-0.09	0	0	0	0	0	0
8/26/2024 11:50	58202	NEWV_T1	0	0	0	0	0	0	0.28	0.21	0	0	0	0	0	0
8/26/2024 11:51	23002	SAJO_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
8/26/2024 11:51	41902	REED_T1	0	0	0	0	0	0	0.61	0.58	1	1	0	900	900	0
8/26/2024 11:51	23001	SAJO_T1	0	2	2	0	0.45	0.45	-0.09	-0.09	0	0	0	0	0	0
8/26/2024 11:53	16302	ALPA_T2	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
8/26/2024 11:54	67605	WARW_T1	2	1	-1	0.6	0.9	0.3	-2.24	-2.19	0	0	0	0	0	0
8/26/2024 11:54	67201	TEHI_T1	0	1	1	0	0.1	0.1	1.08	0.79	2	2	0	1500	1500	0
8/26/2024 11:54	67203	TEHI_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 11:55	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 11:56	16302	ALPA_T2	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
8/26/2024 11:57	16302	ALPA_T2	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
8/26/2024 11:57	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/26/2024 11:57	44802	EDAN_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
8/26/2024 11:57	67605	WARW_T1	2	1	-1	0.6	0.9	0.3	-0.75	-0.73	0	0	0	0	0	0
8/26/2024 11:57	44801	EDAN_T2	7	8	1	0.39	0.48	0.09	0	0	0	0	0	0	0	0
8/26/2024 12:00	44802	EDAN_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
8/26/2024 12:00	63403	HONY_T2	0	0	0	0	0	0	-1.09	-1.09	1	1	0	600	600	0
8/26/2024 12:00	52002	LING_T2	1	2	1	0.4	0	-0.4	0.7	0.71	0	0	0	0	0	0
8/26/2024 12:00	52004	LING_T2	2	2	0	4.55	4.7	0.15	0	0	0	0	0	0	0	0
8/26/2024 12:00	44801	EDAN_T2	8	8	0	0.48	0.39	-0.09	0	0	0	0	0	0	0	0
8/26/2024 12:01	40101	HUNT_T2	148	28	-120	0.47	0.57	0.1	-0.15	-0.58	0	0	0	0	0	0
8/26/2024 12:02	44801	EDAN_T2	8	8	0	0.48	0.39	-0.09	0	0	0	0	0	0	0	0
8/26/2024 12:02	44802	EDAN_T2	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
8/26/2024 12:03	44802	EDAN_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
8/26/2024 12:03	44801	EDAN_T2	8	8	0	0.48	0.39	-0.09	0	0	0	0	0	0	0	0
8/26/2024 12:04	52002	LING_T2	1	2	1	0.4	0	-0.4	0.7	0.71	0	0	0	0	0	0
8/26/2024 12:04	52004	LING_T2	2	2	0	4.55	4.7	0.15	0	0	0	0	0	0	0	0
8/26/2024 12:05	52002	LING_T2	1	2	1	0.4	0	-0.4	0.7	0.71	0	0	0	0	0	0
8/26/2024 12:05	64903	MILL_T2	3	0	-3	7.07	0	-7.07	0	0	0	0	0	0	0	0
8/26/2024 12:05	52004	LING_T2	2	2	0	4.55	4.7	0.15	0	0	0	0	0	0	0	0
8/26/2024 12:05	64902	MILL_T2	0	0	0	0	0	0	-0.61	-0.59	1	1	0	900	900	0
8/26/2024 12:06	43108	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 12:06	42001	MNVL_T2	3	3	0	0.5	0.43	-0.07	0.27	0.28	0	0	0	0	0	0
8/26/2024 12:06	52002	LING_T2	1	2	1	0.4	0	-0.4	0.7	0.71	0	0	0	0	0	0
8/26/2024 12:06	52004	LING_T2	2	2	0	4.55	4.7	0.15	0	0	0	0	0	0	0	0
8/26/2024 12:06	43101	SMIL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/26/2024 12:06	43104	SMIL_T2	0	0	0	0	0	0	-0.59	-0.62	1	1	0	300	300	0
8/26/2024 12:06	43105	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 12:06	43103	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 12:06	42002	MNVL_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
8/26/2024 12:06	15702	TANN_T2	1	1	0	0.2	0.2	0	0	0.02	0	0	0	0	0	0
8/26/2024 12:06	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
8/26/2024 12:07	43101	SMIL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/26/2024 12:07	43103	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 12:07	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
8/26/2024 12:07	15702	TANN_T2	1	1	0	0.2	0.2	0	0	0.02	0	0	0	0	0	0
8/26/2024 12:07	43105	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 12:07	43108	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 12:07	43104	SMIL_T2	0	0	0	0	0	0	-1.76	-1.85	3	3	0	900	900	0
8/26/2024 12:10	51306	WIND_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 12:10	51304	WIND_T2	1	1	0	0.8	1.7	0.9	0	0	0	0	0	0	0	0
8/26/2024 12:10	15702	TANN_T2	1	1	0	0.2	0.2	0	0	0.02	0	0	0	0	0	0
8/26/2024 12:10	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 12:10	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
8/26/2024 12:11	61703	ELIZ_T1	0	0	0	0	0	0	-2.44	-2.46	2	2	0	2100	2100	0
8/26/2024 12:11	61701	ELIZ_T1	1	2	1	0.4	1.25	0.85	0	0	0	0	0	0	0	0
8/26/2024 12:12	10805	CHHI_T2	1	1	0	7.9	8.2	0.3	-2.27	-2.09	4	4	0	3600	3600	0
8/26/2024 12:13	10805	CHHI_T2	1	1	0	7.9	8.2	0.3	-1.14	-1.05	2	2	0	1800	1800	0
8/26/2024 12:14	10805	CHHI_T2	1	1	0	7.9	8.2	0.3	-1.14	-1.05	2	2	0	1800	1800	0
8/26/2024 12:15	63601	LETO_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
8/26/2024 12:15	63602	LETO_T1	0	0	0	0	0	0	-0.32	-0.17	1	1	0	600	600	0
8/26/2024 12:17	57303	MOAL_T2	1	1	0	8.1	7.9	-0.2	0	0	0	0	0	0	0	0
8/26/2024 12:17	57304	MOAL_T2	0	1	1	0	0.7	0.7	-0.25	-0.15	0	0	0	0	0	0
8/26/2024 12:17	45801	HEGI_T1	0	1	1	0	0.1	0.1	0.36	0.41	1	1	0	900	900	0
8/26/2024 12:17	57301	MOAL_T2	1	0	-1	6	0	-6	0	0	0	0	0	0	0	0
8/26/2024 12:18	44703	MUNC_T2	0	0	0	0	0	0	1.05	1.08	0	0	0	0	0	0
8/26/2024 12:20	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 12:21	13303	ORVI_T1	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
8/26/2024 12:22	14401	SSLA_T1	1	3	2	0.1	0.7	0.6	0	0	0	0	0	0	0	0
8/26/2024 12:22	14402	SSLA_T1	3	3	0	0.23	0.27	0.04	0	0	0	0	0	0	0	0
8/26/2024 12:22	40601	PIGR_T1	1	3	2	0.5	0.5	0	0	0	0	0	0	0	0	0
8/26/2024 12:22	14403	SSLA_T1	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
8/26/2024 12:22	40602	PIGR_T1	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
8/26/2024 12:22	14404	SSLA_T1	4	4	0	0.18	0.2	0.02	0	0	0	0	0	0	0	0
8/26/2024 12:23	57401	SPAN_T1	0	2	2	0	0.2	0.2	-0.07	-0.69	1	1	0	600	600	0
8/26/2024 12:24	57401	SPAN_T1	0	2	2	0	0.2	0.2	-0.07	-0.69	1	1	0	600	600	0
8/26/2024 12:25	59102	WALK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/26/2024 12:25	59101	WALK_T2	1	1	0	0.5	0.3	-0.2	1.02	0.62	3	3	0	1800	1800	0
8/26/2024 12:25	55101	WERT_T1	8	15	7	0.33	0.72	0.39	-1.73	-1.77	4	4	0	3300	3300	0
8/26/2024 12:26	14401	SSLA_T1	1	3	2	0.1	0.7	0.6	0	0	0	0	0	0	0	0
8/26/2024 12:26	14402	SSLA_T1	3	3	0	0.23	0.27	0.04	0	0	0	0	0	0	0	0
8/26/2024 12:26	14404	SSLA_T1	4	4	0	0.18	0.2	0.02	0	0	0	0	0	0	0	0
8/26/2024 12:26	14403	SSLA_T1	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
8/26/2024 12:27	11804	FRAN_T1	6	17	11	0.3	0.43	0.13	1.91	1.87	0	0	0	0	0	0
8/26/2024 12:28	44801	EDAN_T2	7	10	3	0.43	0.66	0.23	0	0	0	0	0	0	0	0
8/26/2024 12:28	44802	EDAN_T2	0	0	0	0	0	0	-0.18	-0.14	0	0	0	0	0	0
8/26/2024 12:29	47001	HUGH_T2	3	3	0	7.67	7.5	-0.17	-0.42	-0.18	0	0	0	0	0	0
8/26/2024 12:29	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 12:29	65401	MARI_T1	1	8	7	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/26/2024 12:30	52403	GRPA_T2	4	8	4	0.93	0.82	-0.11	0.38	0.36	0	0	0	0	0	0
8/26/2024 12:30	13502	MCMI_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/26/2024 12:31	40101	HUNT_T2	13	36	23	0.46	0.57	0.11	-0.52	-0.57	0	0	0	0	0	0
8/26/2024 12:31	13503	MCMI_T2	2	196	194	0.65	0.44	-0.21	0.22	-0.68	0	0	0	0	0	0
8/26/2024 12:31	53501	EVIL_T2	1	4	3	0.8	0.3	-0.5	-0.01	-0.01	3	3	0	1400	1400	0
8/26/2024 12:32	65001	NEFF_T2	0	0	0	0	0	0	0.29	0.47	1	1	0	1200	1200	0
8/26/2024 12:32	44801	EDAN_T2	7	10	3	0.4	0.66	0.26	2.59	2.54	0	0	0	0	0	0
8/26/2024 12:32	65004	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 12:32	65005	NEFF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/26/2024 12:33	13503	MCMI_T2	2	196	194	0.65	0.44	-0.21	0.22	-0.68	0	0	0	0	0	0
8/26/2024 12:35	43108	SMIL_T2	1	1	0	0.5	0.6	0.1	-0.5	-0.54	1	1	0	1200	1200	0
8/26/2024 12:35	43101	SMIL_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/26/2024 12:36	13503	MCMI_T2	2	196	194	0.65	0.44	-0.21	-0.68	-0.67	0	0	0	0	0	0
8/26/2024 12:41	61303	EARL_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/26/2024 12:41	61302	EARL_T1	0	0	0	0	0	0	0.66	-0.12	3	4	1	2700	3600	900
8/26/2024 12:42	53901	HALI_T2	1	0	-1	0.1	0	-0.1	-0.81	-0.78	0	0	0	0	0	0
8/26/2024 12:42	53903	HALI_T2	3	2	-1	0.7	0.85	0.15	0	0	0	0	0	0	0	0
8/26/2024 12:42	53902	HALI_T2	3	3	0	2	1.77	-0.23	0	0	0	0	0	0	0	0
8/26/2024 12:43	46803	HEPB_T2	1	1	0	0.7	0.4	-0.3	0.64	0.62	0	0	0	0	0	0
8/26/2024 12:43	46801	HEPB_T2	0	2	2	0	1.35	1.35	0	0	0	0	0	0	0	0
8/26/2024 12:43	55101	WERT_T1	11	14	3	0.68	0.34	-0.34	-1.77	-1.63	4	4	0	3300	3300	0
8/26/2024 12:44	46801	HEPB_T2	0	2	2	0	1.35	1.35	0.52	0.55	0	0	0	0	0	0
8/26/2024 12:44	46803	HEPB_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
8/26/2024 12:45	63602	LETO_T1	0	2	2	0	0.2	0.2	-0.11	-0.09	1	1	0	600	600	0
8/26/2024 12:45	63601	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 12:46	42903	MIDD_T2	2	0	-2	0.5	0	-0.5	2.02	1.02	0	1	1	0	1200	1200
8/26/2024 12:46	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 12:46	53903	HALI_T2	2	2	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
8/26/2024 12:46	53902	HALI_T2	3	3	0	1.73	1.7	-0.03	0	0	0	0	0	0	0	0
8/26/2024 12:46	42902	MIDD_T2	1	1	0	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
8/26/2024 12:46	53501	EVIL_T2	3	4	1	0.27	0.45	0.18	-0.01	-0.01	3	3	0	1400	1400	0
8/26/2024 12:46	52403	GRPA_T2	7	9	2	0.76	1.64	0.88	0.72	0.79	0	0	0	0	0	0
8/26/2024 12:46	53901	HALI_T2	0	0	0	0	0	0	-2.44	-2.34	0	0	0	0	0	0
8/26/2024 12:48	13503	MCMI_T2	194	166	-28	0.44	0.34	-0.1	-0.68	-0.67	0	0	0	0	0	0
8/26/2024 12:48	63601	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 12:48	25402	LAHA_T2	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
8/26/2024 12:48	63602	LETO_T1	0	2	2	0	0.2	0.2	-0.11	-0.09	1	1	0	600	600	0
8/26/2024 12:49	58401	MORO_T1	0	0	0	0	0	0	-1.96	-1.93	2	2	0	1500	1500	0
8/26/2024 12:51	43108	SMIL_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/26/2024 12:51	43101	SMIL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/26/2024 12:51	43103	SMIL_T2	0	0	0	0	0	0	-0.4	-0.31	0	0	0	0	0	0
8/26/2024 12:52	66703	STRA_T1	0	0	0	0	0	0	0.02	0.05	0	0	0	0	0	0
8/26/2024 12:52	58401	MORO_T1	0	0	0	0	0	0	-1.93	-1.89	2	2	0	1500	1500	0
8/26/2024 12:53	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/26/2024 12:53	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 12:53	66505	SMAN_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/26/2024 12:53	66502	SMAN_T2	0	0	0	0	0	0	-0.27	-0.35	1	1	0	900	900	0
8/26/2024 12:54	43108	SMIL_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/26/2024 12:54	43101	SMIL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/26/2024 12:54	43103	SMIL_T2	0	0	0	0	0	0	-0.79	-0.63	0	0	0	0	0	0
8/26/2024 12:55	66703	STRA_T1	0	0	0	0	0	0	0.02	0.05	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/26/2024 12:58	24105	EHAZ_T1	4	4	0	7.63	7.18	-0.45	0	0	0	0	0	0	0	0
8/26/2024 12:58	24102	EHAZ_T1	1	1	0	2	1	-1	0.7	0.65	0	0	0	0	0	0
8/26/2024 12:58	24101	EHAZ_T1	24	17	-7	0.78	0.29	-0.49	0	0	0	0	0	0	0	0
8/26/2024 12:58	51603	DUKE_T1	0	0	0	0	0	0	0.33	0.45	0	0	0	0	0	0
8/26/2024 12:59	16005	DORN_T1	2	1	-1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
8/26/2024 12:59	44801	EDAN_T2	10	8	-2	0.66	0.56	-0.1	0	0	0	0	0	0	0	0
8/26/2024 12:59	44802	EDAN_T2	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
8/26/2024 13:03	63602	LETO_T1	2	0	-2	0.55	0	-0.55	-0.09	0.01	1	1	0	600	600	0
8/26/2024 13:03	44801	EDAN_T2	8	5	-3	0.56	0.5	-0.06	-1.24	-1.23	0	0	0	0	0	0
8/26/2024 13:03	63601	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 13:04	42903	MIDD_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 13:04	42902	MIDD_T2	1	1	0	0.7	0.7	0	-0.02	0.02	1	1	0	600	600	0
8/26/2024 13:06	44203	POIN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 13:06	44202	POIN_T2	0	1	1	0	0	0	-0.1	-0.1	1	1	0	1200	1200	0
8/26/2024 13:09	54201	PENN_T1	2	1	-1	0.2	0.2	0	-1.68	-1.66	0	0	0	0	0	0
8/26/2024 13:09	67902	WNHO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 13:09	67901	WNHO_T2	8	39	31	0.53	0.55	0.02	0	0	0	0	0	0	0	0
8/26/2024 13:10	43201	MVIL_T2	1	1	0	0.8	0.4	-0.4	-0.16	-0.14	0	0	0	0	0	0
8/26/2024 13:10	25603	ARRO_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
8/26/2024 13:11	49804	UNIV_T1	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
8/26/2024 13:11	49803	UNIV_T1	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
8/26/2024 13:12	25603	ARRO_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
8/26/2024 13:12	57401	SPAN_T1	0	0	0	0	0	0	-0.57	-0.34	1	1	0	600	600	0
8/26/2024 13:13	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 13:14	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 13:14	45902	AUBU_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/26/2024 13:14	45901	AUBU_T1	0	0	0	0	0	0	0.45	0.56	0	0	0	0	0	0
8/26/2024 13:15	53502	EVIL_T2	0	0	0	0	0	0	0.02	0.07	3	3	0	2100	2100	0
8/26/2024 13:15	53501	EVIL_T2	3	16	13	0.33	0.43	0.1	0	0	0	0	0	0	0	0
8/26/2024 13:17	15604	NSTR_T1	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
8/26/2024 13:18	53501	EVIL_T2	3	16	13	0.33	0.43	0.1	-0.01	-0.01	3	3	0	1400	1400	0
8/26/2024 13:19	45801	HEGI_T1	1	1	0	0.7	0	-0.7	0.53	0.57	1	1	0	900	900	0
8/26/2024 13:22	66903	SHIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/26/2024 13:22	14705	TREX_T1	1	3	2	0.5	0.5	0	0.5	0.48	0	0	0	0	0	0
8/26/2024 13:22	65901	SAKR_T2	1	1	0	6.3	6	-0.3	-0.21	-0.3	2	2	0	1500	1500	0
8/26/2024 13:22	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 13:22	43103	SMIL_T2	0	1	1	0	0.2	0.2	-1.55	-1.58	0	0	0	0	0	0
8/26/2024 13:22	66902	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 13:22	43101	SMIL_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
8/26/2024 13:22	66901	SHIL_T2	0	0	0	0	0	0	-1.53	-1.55	1	1	0	1200	1200	0
8/26/2024 13:23	43103	SMIL_T2	0	1	1	0	0.2	0.2	-1.55	-1.58	0	0	0	0	0	0
8/26/2024 13:23	43101	SMIL_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
8/26/2024 13:23	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 13:24	67602	WARW_T2	0	0	0	0	0	0	0.35	0.41	1	1	0	300	300	0
8/26/2024 13:24	53903	HALI_T2	2	3	1	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
8/26/2024 13:24	53902	HALI_T2	3	2	-1	1.63	2.3	0.67	-0.49	-0.48	0	0	0	0	0	0
8/26/2024 13:25	64101	REFR_T1	10	10	0	0.97	0.73	-0.24	0.61	-0.08	0	0	0	0	0	0
8/26/2024 13:26	67602	WARW_T2	0	0	0	0	0	0	0.35	0.41	1	1	0	300	300	0
8/26/2024 13:26	67902	WNHO_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/26/2024 13:26	67901	WNHO_T2	14	42	28	0.56	0.46	-0.1	0	0	0	0	0	0	0	0
8/26/2024 13:27	67602	WARW_T2	0	0	0	0	0	0	0.35	0.41	1	1	0	300	300	0
8/26/2024 13:28	29402	BELT_T1	1	1	0	8	8.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 13:28	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 13:28	67602	WARW_T2	0	0	0	0	0	0	0.7	0.83	2	2	0	600	600	0
8/26/2024 13:28	53501	EVIL_T2	3	16	13	0.33	0.43	0.1	-0.01	-0.01	3	3	0	1400	1400	0
8/26/2024 13:29	53502	EVIL_T2	0	0	0	0	0	0	0.07	0.12	3	3	0	2100	2100	0
8/26/2024 13:29	53501	EVIL_T2	3	16	13	0.33	0.43	0.1	0	0	0	0	0	0	0	0
8/26/2024 13:31	12701	MACU_T1	0	0	0	0	0	0	-0.68	-0.64	1	1	0	1200	1200	0
8/26/2024 13:32	53502	EVIL_T2	0	0	0	0	0	0	0.07	0.12	3	3	0	2100	2100	0
8/26/2024 13:32	53501	EVIL_T2	9	13	4	0.36	0.8	0.44	0	0	0	0	0	0	0	0
8/26/2024 13:35	12701	MACU_T1	0	0	0	0	0	0	-0.68	-0.64	1	1	0	1200	1200	0
8/26/2024 13:35	45801	HEGI_T1	0	0	0	0	0	0	0.57	0.59	1	1	0	900	900	0
8/26/2024 13:35	13702	SCHN_T1	0	0	0	0	0	0	0.68	0.74	0	0	0	0	0	0
8/26/2024 13:36	13702	SCHN_T1	0	0	0	0	0	0	0.74	0.71	0	0	0	0	0	0
8/26/2024 13:37	21705	SUBU_T1	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
8/26/2024 13:37	21704	SUBU_T1	0	0	0	0	0	0	-1.72	-1.77	2	2	0	2400	2400	0
8/26/2024 13:37	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 13:37	21701	SUBU_T1	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
8/26/2024 13:37	64101	REFR_T1	10	10	0	0.73	0.8	0.07	-0.16	-0.18	0	0	0	0	0	0
8/26/2024 13:38	64101	REFR_T1	10	10	0	0.73	0.8	0.07	-0.16	-0.18	0	0	0	0	0	0
8/26/2024 13:39	64101	REFR_T1	10	10	0	0.73	0.8	0.07	-0.24	-0.27	0	0	0	0	0	0
8/26/2024 13:39	47502	NECO_T1	3	4	1	0.4	0.4	0	1.28	1.18	0	0	0	0	0	0
8/26/2024 13:40	64101	REFR_T1	10	10	0	0.73	0.8	0.07	-0.08	-0.09	0	0	0	0	0	0
8/26/2024 13:40	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 13:40	45501	DERR_T2	2	3	1	0.7	0.55	-0.15	1.16	1.24	2	2	0	1800	1800	0
8/26/2024 13:41	61303	EARL_T1	1	2	1	0.2	0.1	-0.1	0.55	0.49	0	0	0	0	0	0
8/26/2024 13:41	45501	DERR_T2	2	3	1	0.7	0.55	-0.15	1.16	1.24	2	2	0	1800	1800	0
8/26/2024 13:42	61303	EARL_T1	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/26/2024 13:42	61306	EARL_T1	0	0	0	0	0	0	-1.08	-1.07	0	0	0	0	0	0
8/26/2024 13:42	64101	REFR_T1	10	10	0	0.73	0.8	0.07	-0.16	-0.18	0	0	0	0	0	0
8/26/2024 13:43	61303	EARL_T1	1	2	1	0.2	0.1	-0.1	0.55	0.49	0	0	0	0	0	0
8/26/2024 13:43	58701	ROSE_T2	0	0	0	0	0	0	-0.76	-0.8	1	1	0	600	600	0
8/26/2024 13:43	58705	ROSE_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
8/26/2024 13:43	58706	ROSE_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
8/26/2024 13:44	61303	EARL_T1	1	2	1	0.2	0.1	-0.1	0.55	0.49	0	0	0	0	0	0
8/26/2024 13:45	40101	HUNT_T2	106	364	258	0.41	0.63	0.22	-0.47	-0.27	0	0	0	0	0	0
8/26/2024 13:46	67902	WNHO_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/26/2024 13:46	67901	WNHO_T2	27	57	30	0.45	0.41	-0.04	0	0	0	0	0	0	0	0
8/26/2024 13:46	12604	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 13:46	12601	MACA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/26/2024 13:46	12606	MACA_T1	13	27	14	1.22	1.31	0.09	0	0	0	0	0	0	0	0
8/26/2024 13:46	12602	MACA_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
8/26/2024 13:47	44801	EDAN_T2	7	29	22	0.5	0.41	-0.09	0	0	0	0	0	0	0	0
8/26/2024 13:47	20603	GRWO_T2	0	0	0	0	0	0	-0.26	-0.27	1	1	0	900	900	0
8/26/2024 13:47	43101	SMIL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/26/2024 13:47	43103	SMIL_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
8/26/2024 13:47	20601	GRWO_T2	53	59	6	0.53	0.36	-0.17	0	0	0	0	0	0	0	0
8/26/2024 13:47	43105	SMIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/26/2024 13:47	44802	EDAN_T2	0	2	2	0	0.1	0.1	-0.17	-1.47	0	0	0	0	0	0
8/26/2024 13:47	43104	SMIL_T2	0	0	0	0	0	0	-1.2	-1.23	1	1	0	300	300	0
8/26/2024 13:49	52004	LING_T2	2	2	0	4.55	4.6	0.05	0.87	0.9	0	0	0	0	0	0
8/26/2024 13:50	56503	ROCK_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/26/2024 13:50	10801	CHHI_T1	6	3	-3	0.33	0.2	-0.13	-1.04	-1.17	3	3	0	2100	2100	0
8/26/2024 13:50	56501	ROCK_T2	7	9	2	0.63	0.51	-0.12	0	0	0	0	0	0	0	0
8/26/2024 13:50	56504	ROCK_T2	1	0	-1	0.1	0	-0.1	-0.49	-0.45	0	0	0	0	0	0
8/26/2024 13:51	41902	REED_T1	1	4	3	0.6	0.7	0.1	0.65	0.63	1	1	0	900	900	0
8/26/2024 13:52	13704	SCHN_T2	0	0	0	0	0	0	-0.15	-0.07	0	0	0	0	0	0
8/26/2024 13:52	40602	PIGR_T1	2	2	0	0.65	0.9	0.25	-0.84	-0.86	1	1	0	600	600	0
8/26/2024 13:52	41902	REED_T1	1	4	3	0.6	0.7	0.1	0.65	0.63	1	1	0	900	900	0
8/26/2024 13:52	40601	PIGR_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/26/2024 13:52	40603	PIGR_T1	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 13:54	56504	ROCK_T2	1	0	-1	0.1	0	-0.1	-0.45	-0.42	0	0	0	0	0	0
8/26/2024 13:54	56503	ROCK_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/26/2024 13:54	56501	ROCK_T2	7	9	2	0.63	0.51	-0.12	0	0	0	0	0	0	0	0
8/26/2024 13:55	54601	SUMM_T2	0	0	0	0	0	0	-1.94	-1.94	3	3	0	3000	3000	0
8/26/2024 13:55	29402	BELT_T1	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
8/26/2024 13:56	42701	AUGU_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
8/26/2024 13:56	44301	BEAV_T2	4	6	2	0.58	0.1	-0.48	0	0	0	0	0	0	0	0
8/26/2024 13:56	61102	BERK_T5	0	0	0	0	0	0	0.49	0.41	2	2	0	1200	1200	0
8/26/2024 13:57	54502	ENOL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 13:57	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/26/2024 13:57	61102	BERK_T5	0	0	0	0	0	0	0.49	0.41	2	2	0	1200	1200	0
8/26/2024 13:57	54504	ENOL_T2	0	0	0	0	0	0	-1.17	-1.18	1	1	0	600	600	0
8/26/2024 13:58	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 13:58	61701	ELIZ_T1	1	8	7	0.2	0.26	0.06	0	0	0	0	0	0	0	0
8/26/2024 13:59	61701	ELIZ_T1	1	8	7	0.2	0.26	0.06	0	0	0	0	0	0	0	0
8/26/2024 13:59	61703	ELIZ_T1	0	0	0	0	0	0	-2.36	-2.35	2	2	0	2100	2100	0
8/26/2024 13:59	63304	GREE_T1	0	0	0	0	0	0	-3.9	-3.59	0	0	0	0	0	0
8/26/2024 14:00	61703	ELIZ_T1	0	0	0	0	0	0	-2.36	-2.35	2	2	0	2100	2100	0
8/26/2024 14:00	48602	POCA_T1	0	0	0	0	0	0	-0.08	0	1	1	0	1200	1200	0
8/26/2024 14:00	53601	DALM_T2	1	1	0	0.9	1	0.1	-0.5	-0.45	2	2	0	1500	1500	0
8/26/2024 14:00	61701	ELIZ_T1	5	8	3	0.26	0.44	0.18	0	0	0	0	0	0	0	0
8/26/2024 14:01	61102	BERK_T5	0	0	0	0	0	0	0.49	0.41	2	2	0	1200	1200	0
8/26/2024 14:01	61701	ELIZ_T1	5	8	3	0.26	0.44	0.18	0	0	0	0	0	0	0	0
8/26/2024 14:01	61703	ELIZ_T1	0	0	0	0	0	0	-2.36	-2.35	2	2	0	2100	2100	0
8/26/2024 14:02	61701	ELIZ_T1	5	8	3	0.26	0.44	0.18	0	0	0	0	0	0	0	0
8/26/2024 14:02	61102	BERK_T5	0	0	0	0	0	0	0.49	0.41	2	2	0	1200	1200	0
8/26/2024 14:02	61703	ELIZ_T1	0	0	0	0	0	0	-2.36	-2.35	2	2	0	2100	2100	0
8/26/2024 14:02	44801	EDAN_T2	22	28	6	0.39	0.41	0.02	0	0	0	0	0	0	0	0
8/26/2024 14:02	44802	EDAN_T2	0	1	1	0	0.1	0.1	-1.47	-1.39	0	0	0	0	0	0
8/26/2024 14:03	61102	BERK_T5	0	0	0	0	0	0	1.46	1.24	6	6	0	3600	3600	0
8/26/2024 14:05	54701	NEBL_T1	0	4	4	0	0.1	0.1	0	0	1	1	0	600	600	0
8/26/2024 14:07	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:07	44203	POIN_T2	0	0	0	0	0	0	0.63	0.65	2	2	0	2100	2100	0
8/26/2024 14:07	67901	WNHO_T2	53	41	-12	0.44	0.54	0.1	0	0	0	0	0	0	0	0
8/26/2024 14:07	16203	POFA_T2	4	2	-2	0.25	0.25	0	0	0	0	0	0	0	0	0
8/26/2024 14:07	64101	REFR_T1	6	0	-6	0.8	0.13	-0.67	-0.06	0	0	0	0	0	0	0
8/26/2024 14:07	67902	WNHO_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
8/26/2024 14:07	44202	POIN_T2	1	1	0	3.6	3.7	0.1	0	0	0	0	0	0	0	0
8/26/2024 14:09	43103	SMIL_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 14:09	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 14:09	43101	SMIL_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/26/2024 14:09	43108	SMIL_T2	0	0	0	0	0	0	-0.84	-0.8	1	1	0	1200	1200	0
8/26/2024 14:11	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 14:11	43101	SMIL_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/26/2024 14:11	59101	WALK_T2	0	0	0	0	0	0	1.61	1.56	1	1	0	600	600	0
8/26/2024 14:11	43108	SMIL_T2	0	0	0	0	0	0	-0.84	-0.8	1	1	0	1200	1200	0
8/26/2024 14:11	43103	SMIL_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 14:13	51604	DUKE_T2	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
8/26/2024 14:14	63401	HONY_T1	0	0	0	0	0	0	0.05	0.1	1	1	0	600	600	0
8/26/2024 14:15	67503	WEWI_T2	1	1	0	4.2	4.1	-0.1	0.7	0.68	0	0	0	0	0	0
8/26/2024 14:16	53601	DALM_T2	1	1	0	0.9	1	0.1	-0.45	-0.46	2	2	0	1500	1500	0
8/26/2024 14:16	63403	HONY_T2	4	11	7	0.45	0.5	0.05	-0.89	-0.81	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/26/2024 14:16	47101	MARL_T1	16	8	-8	1.76	1.15	-0.61	-0.21	-0.83	0	1	1	0	600	600
8/26/2024 14:16	59301	MCAL_T1	6	9	3	0.53	0.33	-0.2	0	0	0	0	0	0	0	0
8/26/2024 14:17	47101	MARL_T1	16	8	-8	1.76	1.15	-0.61	-0.21	-0.83	0	1	1	0	600	600
8/26/2024 14:17	63602	LETO_T1	1	1	0	0.1	0	-0.1	-0.04	0.02	1	1	0	600	600	0
8/26/2024 14:18	59301	MCAL_T1	6	9	3	0.53	0.33	-0.2	-2.59	-2.6	2	2	0	1200	1200	0
8/26/2024 14:20	66504	SMAN_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
8/26/2024 14:20	66505	SMAN_T2	2	20	18	0.55	0.7	0.15	0.69	0.59	4	4	0	2300	2300	0
8/26/2024 14:20	59301	MCAL_T1	6	9	3	0.53	0.33	-0.2	-1.29	-1.3	1	1	0	600	600	0
8/26/2024 14:23	43104	SMIL_T2	0	0	0	0	0	0	-1.08	-1.23	1	1	0	300	300	0
8/26/2024 14:23	43101	SMIL_T2	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/26/2024 14:23	66504	SMAN_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
8/26/2024 14:23	43105	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 14:23	66505	SMAN_T2	2	20	18	0.55	0.7	0.15	0.59	0.66	4	4	0	2300	2300	0
8/26/2024 14:26	67904	WNHO_T1	4	6	2	0.3	0.38	0.08	-1.64	-1.64	2	2	0	2100	2100	0
8/26/2024 14:26	67903	WNHO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 14:26	16603	PONO_T2	0	0	0	0	0	0	0.51	0.45	1	1	0	1200	1200	0
8/26/2024 14:27	11102	EGYP_T1	4	5	1	0.95	0.45	-0.5	0	0	0	0	0	0	0	0
8/26/2024 14:27	44301	BEAV_T2	2	5	3	1.15	0.78	-0.37	-0.52	0.16	2	1	-1	1500	600	-900
8/26/2024 14:27	11104	EGYP_T1	7	7	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
8/26/2024 14:27	11101	EGYP_T1	4	1	-3	0.83	0.7	-0.13	0	0	0	0	0	0	0	0
8/26/2024 14:27	61102	BERK_T5	0	0	0	0	0	0	0.29	0.36	2	2	0	1200	1200	0
8/26/2024 14:27	11103	EGYP_T1	0	0	0	0	0	0	-0.39	-0.42	0	0	0	0	0	0
8/26/2024 14:28	61701	ELIZ_T1	7	10	3	0.31	1	0.69	2.06	2	0	0	0	0	0	0
8/26/2024 14:28	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/26/2024 14:28	42701	AUGU_T1	0	1	1	0	0	0	0	0	2	2	0	1800	1800	0
8/26/2024 14:28	61703	ELIZ_T1	0	0	0	0	0	0	-2.34	-2.32	2	2	0	2100	2100	0
8/26/2024 14:28	61102	BERK_T5	0	0	0	0	0	0	0.29	0.36	2	2	0	1200	1200	0
8/26/2024 14:28	44301	BEAV_T2	2	5	3	1.15	0.78	-0.37	0	0	0	0	0	0	0	0
8/26/2024 14:29	16006	DORN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:29	11102	EGYP_T1	4	5	1	0.95	0.45	-0.5	0.53	0.54	0	0	0	0	0	0
8/26/2024 14:29	11104	EGYP_T1	7	7	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
8/26/2024 14:29	11101	EGYP_T1	4	1	-3	0.83	0.7	-0.13	0	0	0	0	0	0	0	0
8/26/2024 14:29	11103	EGYP_T1	0	0	0	0	0	0	-0.39	-0.42	0	0	0	0	0	0
8/26/2024 14:29	16002	DORN_T2	0	0	0	0	0	0	0.02	0.01	1	1	0	1200	1200	0
8/26/2024 14:30	63804	HEMP_T1	1	1	0	7.3	7.4	0.1	-0.98	-1.01	0	0	0	0	0	0
8/26/2024 14:31	61701	ELIZ_T1	7	5	-2	0.54	0.48	-0.06	0	0	0	0	0	0	0	0
8/26/2024 14:31	61703	ELIZ_T1	0	0	0	0	0	0	-2.34	-2.32	2	2	0	2100	2100	0
8/26/2024 14:31	53601	DALM_T2	1	1	0	1	1	0	-0.46	-0.48	2	2	0	1500	1500	0
8/26/2024 14:32	61701	ELIZ_T1	7	5	-2	0.54	0.48	-0.06	0	0	0	0	0	0	0	0
8/26/2024 14:32	40101	HUNT_T2	438	237	-201	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
8/26/2024 14:32	61703	ELIZ_T1	0	0	0	0	0	0	-4.68	-4.64	4	4	0	4200	4200	0
8/26/2024 14:32	22002	BOHE_T1	0	0	0	0	0	0	-0.66	-0.63	0	0	0	0	0	0
8/26/2024 14:33	58402	MORO_T1	1	3	2	0.2	0.25	0.05	0	0	0	0	0	0	0	0
8/26/2024 14:33	58401	MORO_T1	5	8	3	0.22	0.25	0.03	-1.79	-1.74	2	2	0	1500	1500	0
8/26/2024 14:34	44201	POIN_T1	0	0	0	0	0	0	-1.33	-1.58	2	2	0	2100	2100	0
8/26/2024 14:34	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:34	52502	PROG_T2	0	0	0	0	0	0	0.52	0.49	2	2	0	1800	1800	0
8/26/2024 14:34	65207	PRIN_T4	0	1	1	0	0	0	0	0	2	2	0	1800	1800	0
8/26/2024 14:35	66505	SMAN_T2	2	21	19	0.7	0.6	-0.1	0.59	0.66	4	4	0	2300	2300	0
8/26/2024 14:35	66504	SMAN_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/26/2024 14:35	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/26/2024 14:35	47401	PENS_T1	2	2	0	0.6	0.8	0.2	0.8	0.91	0	0	0	0	0	0
8/26/2024 14:35	47403	PENS_T1	2	3	1	1.35	1.27	-0.08	0	0	0	0	0	0	0	0
8/26/2024 14:35	65207	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:35	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:35	44201	POIN_T1	0	0	0	0	0	0	-3.98	-4.74	6	6	0	6300	6300	0
8/26/2024 14:35	67106	SPRI_T2	0	0	0	0	0	0	-1.26	-1.23	1	1	0	900	900	0
8/26/2024 14:36	66504	SMAN_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/26/2024 14:36	65205	PRIN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/26/2024 14:36	67002	STHI_T2	0	0	0	0	0	0	-0.39	-0.41	1	1	0	600	600	0
8/26/2024 14:36	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:36	66901	SHIL_T2	0	0	0	0	0	0	-1.47	-1.47	1	1	0	1200	1200	0
8/26/2024 14:36	42601	TUSC_T1	0	0	0	0	0	0	-0.23	-0.18	2	2	0	1800	1800	0
8/26/2024 14:36	67103	SPRI_T1	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
8/26/2024 14:36	47401	PENS_T1	2	2	0	0.6	0.8	0.2	0.91	0.95	0	0	0	0	0	0
8/26/2024 14:36	52502	PROG_T2	0	0	0	0	0	0	0.26	0.24	1	1	0	900	900	0
8/26/2024 14:36	41902	REED_T1	2	13	11	0.5	0.88	0.38	0	0	0	0	0	0	0	0
8/26/2024 14:36	66001	RHEE_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/26/2024 14:36	47403	PENS_T1	2	3	1	1.35	1.27	-0.08	0	0	0	0	0	0	0	0
8/26/2024 14:36	42201	SHEN_T2	0	0	0	0	0	0	0.54	0.48	1	1	0	600	600	0
8/26/2024 14:36	66505	SMAN_T2	2	21	19	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/26/2024 14:36	66002	RHEE_T2	0	0	0	0	0	0	-1.64	-2.24	1	1	0	1200	1200	0
8/26/2024 14:36	14601	SWHI_T1	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
8/26/2024 14:36	14605	SWHI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:37	66505	SMAN_T2	2	21	19	0.7	0.6	-0.1	1.31	1.4	8	8	0	4600	4600	0
8/26/2024 14:37	66504	SMAN_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
8/26/2024 14:37	44202	POIN_T2	1	1	0	4.6	4.3	-0.3	-0.61	-0.68	2	2	0	1800	1800	0
8/26/2024 14:37	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:37	42201	SHEN_T2	0	0	0	0	0	0	0.54	0.48	1	1	0	600	600	0
8/26/2024 14:37	65207	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:37	44201	POIN_T1	0	0	0	0	0	0	-1.58	-1.5	2	2	0	2100	2100	0
8/26/2024 14:37	42203	SHEN_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
8/26/2024 14:37	14601	SWHI_T1	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
8/26/2024 14:37	67002	STHI_T2	0	0	0	0	0	0	-0.78	-0.82	2	2	0	1200	1200	0
8/26/2024 14:37	67106	SPRI_T2	0	0	0	0	0	0	-3.69	-3.6	3	3	0	2700	2700	0
8/26/2024 14:37	66902	SHIL_T2	0	0	0	0	0	0	-0.79	-0.85	0	0	0	0	0	0
8/26/2024 14:37	66103	REAM_T2	0	0	0	0	0	0	0.41	0.44	1	1	0	1200	1200	0
8/26/2024 14:37	66903	SHIL_T2	0	0	0	0	0	0	-0.85	-0.79	0	0	0	0	0	0
8/26/2024 14:37	67103	SPRI_T1	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
8/26/2024 14:37	52501	PROG_T1	0	0	0	0	0	0	0.74	0.75	1	1	0	300	300	0
8/26/2024 14:37	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/26/2024 14:37	14605	SWHI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:37	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:38	52502	PROG_T2	0	0	0	0	0	0	0.24	0.24	1	1	0	900	900	0
8/26/2024 14:38	54206	PENN_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
8/26/2024 14:38	27502	WEIS_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
8/26/2024 14:38	44202	POIN_T2	1	1	0	4.6	4.3	-0.3	-0.61	-0.68	2	2	0	1800	1800	0
8/26/2024 14:38	15803	WGAT_T1	0	0	0	0	0	0	1.34	1.29	0	0	0	0	0	0
8/26/2024 14:38	66903	SHIL_T2	0	0	0	0	0	0	-2.56	-2.38	0	0	0	0	0	0
8/26/2024 14:38	14601	SWHI_T1	0	0	0	0	0	0	-0.12	-0.1	0	0	0	0	0	0
8/26/2024 14:38	66902	SHIL_T2	0	0	0	0	0	0	-0.79	-0.85	0	0	0	0	0	0
8/26/2024 14:38	65207	PRIN_T4	0	1	1	0	0	0	0	0	2	2	0	1800	1800	0
8/26/2024 14:38	14605	SWHI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:38	51204	MTON_T2	0	0	0	0	0	0	-0.89	-0.85	2	2	0	1500	1500	0
8/26/2024 14:38	67106	SPRI_T2	0	0	0	0	0	0	-1.23	-1.2	1	1	0	900	900	0
8/26/2024 14:38	16503	STRO_T2	1	0	-1	0.1	0	-0.1	0.21	0.29	1	1	0	1200	1200	0
8/26/2024 14:38	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:38	13701	SCHN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:38	14603	SWHI_T1	0	0	0	0	0	0	-1.78	-1.73	4	4	0	2400	2400	0
8/26/2024 14:38	44201	POIN_T1	0	0	0	0	0	0	-6.32	-6.01	8	8	0	8400	8400	0
8/26/2024 14:39	65205	PRIN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/26/2024 14:39	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:39	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:39	52501	PROG_T1	0	0	0	0	0	0	0.74	0.75	1	1	0	300	300	0
8/26/2024 14:39	13704	SCHN_T2	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
8/26/2024 14:39	42201	SHEN_T2	0	0	0	0	0	0	0.54	0.48	1	1	0	600	600	0
8/26/2024 14:39	67103	SPRI_T1	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
8/26/2024 14:39	14601	SWHI_T1	0	0	0	0	0	0	-0.35	-0.3	0	0	0	0	0	0
8/26/2024 14:39	15001	BLMO_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/26/2024 14:39	29402	BELT_T1	1	1	0	8.3	8.2	-0.1	0	0	0	0	0	0	0	0
8/26/2024 14:39	47403	PENS_T1	2	3	1	1.35	1.27	-0.08	0	0	0	0	0	0	0	0
8/26/2024 14:39	14604	SWHI_T1	0	0	0	0	0	0	-1.12	-1.19	3	3	0	2700	2700	0
8/26/2024 14:39	47401	PENS_T1	2	2	0	0.6	0.8	0.2	1.82	1.9	0	0	0	0	0	0
8/26/2024 14:39	14605	SWHI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:39	13701	SCHN_T2	0	0	0	0	0	0	1.22	1.23	1	1	0	600	600	0
8/26/2024 14:39	66903	SHIL_T2	0	0	0	0	0	0	-2.56	-2.38	0	0	0	0	0	0
8/26/2024 14:39	44201	POIN_T1	0	0	0	0	0	0	-1.58	-1.5	2	2	0	2100	2100	0
8/26/2024 14:39	44202	POIN_T2	1	1	0	4.6	4.3	-0.3	-1.22	-1.36	4	4	0	3600	3600	0
8/26/2024 14:40	66901	SHIL_T2	0	0	0	0	0	0	-1.47	-1.47	1	1	0	1200	1200	0
8/26/2024 14:40	54201	PENN_T1	3	3	0	0.6	0.6	0	-1.57	-1.56	0	0	0	0	0	0
8/26/2024 14:40	51306	WIND_T2	0	0	0	0	0	0	-1.06	-1.02	0	0	0	0	0	0
8/26/2024 14:40	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:40	66903	SHIL_T2	0	0	0	0	0	0	-0.85	-0.79	0	0	0	0	0	0
8/26/2024 14:40	14603	SWHI_T1	0	0	0	0	0	0	-0.89	-0.87	2	2	0	1200	1200	0
8/26/2024 14:40	14605	SWHI_T1	0	2	2	0	0	0	2.34	2.32	1	1	0	1200	1200	0
8/26/2024 14:40	42204	SHEN_T2	0	0	0	0	0	0	0.25	0.2	1	1	0	1200	1200	0
8/26/2024 14:40	42601	TUSC_T1	0	0	0	0	0	0	-0.23	-0.18	2	2	0	1800	1800	0
8/26/2024 14:40	54203	PENN_T1	5	5	0	0.44	0.28	-0.16	0	0	0	0	0	0	0	0
8/26/2024 14:40	60701	BREC_T1	9	10	1	1.39	1.55	0.16	0.34	0.26	4	4	0	2400	2400	0
8/26/2024 14:40	57401	SPAN_T1	1	0	-1	0.3	0	-0.3	-0.13	-0.15	1	1	0	600	600	0
8/26/2024 14:40	51304	WIND_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/26/2024 14:41	47403	PENS_T1	2	3	1	1.35	1.27	-0.08	0	0	0	0	0	0	0	0
8/26/2024 14:41	10702	CATA_T2	0	0	0	0	0	0	-0.24	-0.28	0	0	0	0	0	0
8/26/2024 14:41	47401	PENS_T1	2	2	0	0.6	0.8	0.2	0.91	0.95	0	0	0	0	0	0
8/26/2024 14:41	57401	SPAN_T1	1	0	-1	0.3	0	-0.3	-0.13	-0.15	1	1	0	600	600	0
8/26/2024 14:41	41302	FISH_T2	0	10	10	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:41	46204	DANV_T2	0	14	14	0	0.45	0.45	0	0	0	0	0	0	0	0
8/26/2024 14:41	14605	SWHI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:41	46203	DANV_T2	1	2	1	5.4	5.4	0	-0.03	-0.05	0	0	0	0	0	0
8/26/2024 14:41	67503	WEWI_T2	1	1	0	4.1	3.4	-0.7	0.69	0.71	0	0	0	0	0	0
8/26/2024 14:41	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:41	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:41	46002	BERW_T2	0	0	0	0	0	0	-0.81	-0.89	1	1	0	900	900	0
8/26/2024 14:41	46004	BERW_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/26/2024 14:41	15001	BLMO_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/26/2024 14:41	46206	DANV_T2	2	51	49	2.05	0.5	-1.55	0	0	0	0	0	0	0	0
8/26/2024 14:41	54201	PENN_T1	3	3	0	0.6	0.6	0	-1.57	-1.56	0	0	0	0	0	0
8/26/2024 14:41	14601	SWHI_T1	0	0	0	0	0	0	-0.12	-0.1	0	0	0	0	0	0
8/26/2024 14:41	66902	SHIL_T2	0	0	0	0	0	0	-0.79	-0.85	0	0	0	0	0	0
8/26/2024 14:41	41304	FISH_T2	1	1	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
8/26/2024 14:41	54203	PENN_T1	5	5	0	0.44	0.28	-0.16	0	0	0	0	0	0	0	0
8/26/2024 14:41	45501	DERR_T2	4	6	2	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
8/26/2024 14:41	45502	DERR_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/26/2024 14:41	66903	SHIL_T2	0	0	0	0	0	0	-3.41	-3.17	0	0	0	0	0	0
8/26/2024 14:42	46206	DANV_T2	2	51	49	2.05	0.5	-1.55	0	0	0	0	0	0	0	0
8/26/2024 14:42	62604	ENGL_T1	0	0	0	0	0	0	0.06	-0.18	1	1	0	600	600	0
8/26/2024 14:42	43505	WWIL_T1	1	1	0	1.2	2	0.8	0	0	0	0	0	0	0	0
8/26/2024 14:42	67605	WARW_T1	1	2	1	0.4	0.35	-0.05	-3	-2.76	0	0	0	0	0	0
8/26/2024 14:42	61501	EPET_T2	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
8/26/2024 14:42	14603	SWHI_T1	0	0	0	0	0	0	-0.89	-0.87	2	2	0	1200	1200	0
8/26/2024 14:42	46004	BERW_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/26/2024 14:42	46204	DANV_T2	0	14	14	0	0.45	0.45	0	0	0	0	0	0	0	0
8/26/2024 14:42	62607	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 14:42	13501	MCMI_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
8/26/2024 14:42	62606	ENGL_T1	0	8	8	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 14:42	14605	SWHI_T1	0	2	2	0	0	0	2.34	2.32	1	1	0	1200	1200	0
8/26/2024 14:42	46203	DANV_T2	1	2	1	5.4	5.4	0	-0.03	-0.05	0	0	0	0	0	0
8/26/2024 14:42	46002	BERW_T2	0	0	0	0	0	0	-1.62	-1.77	2	2	0	1800	1800	0
8/26/2024 14:42	53601	DALM_T2	1	1	0	1	1	0	-0.48	-0.44	2	2	0	1500	1500	0
8/26/2024 14:42	66903	SHIL_T2	0	0	0	0	0	0	-0.85	-0.79	0	0	0	0	0	0
8/26/2024 14:42	43504	WWIL_T1	0	0	0	0	0	0	1.18	1.24	0	0	0	0	0	0
8/26/2024 14:43	46206	DANV_T2	2	51	49	2.05	0.5	-1.55	0	0	0	0	0	0	0	0
8/26/2024 14:43	41302	FISH_T2	0	10	10	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:43	62102	ELAN_T1	0	0	0	0	0	0	1.65	1.72	0	0	0	0	0	0
8/26/2024 14:43	51904	COPA_T1	1	1	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
8/26/2024 14:43	62606	ENGL_T1	0	8	8	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 14:43	46203	DANV_T2	1	2	1	5.4	5.4	0	-0.03	-0.05	0	0	0	0	0	0
8/26/2024 14:43	67002	STHI_T2	0	0	0	0	0	0	-0.39	-0.41	1	1	0	600	600	0
8/26/2024 14:43	51902	COPA_T1	0	0	0	0	0	0	-0.96	-0.91	1	1	0	1200	1200	0
8/26/2024 14:43	62604	ENGL_T1	0	0	0	0	0	0	0.06	-0.18	1	1	0	600	600	0
8/26/2024 14:43	62607	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 14:43	61303	EARL_T1	1	2	1	0.8	0	-0.8	-0.54	-0.74	0	0	0	0	0	0
8/26/2024 14:43	41304	FISH_T2	1	1	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
8/26/2024 14:43	46204	DANV_T2	0	14	14	0	0.45	0.45	0	0	0	0	0	0	0	0
8/26/2024 14:43	44801	EDAN_T2	18	22	4	0.49	0.4	-0.09	-1.14	-1.08	0	0	0	0	0	0
8/26/2024 14:43	15001	BLMO_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/26/2024 14:43	60701	BREC_T1	9	10	1	1.39	1.55	0.16	0.17	0.13	2	2	0	1200	1200	0
8/26/2024 14:43	61102	BERK_T5	0	0	0	0	0	0	0.36	0.38	2	2	0	1200	1200	0
8/26/2024 14:43	51906	COPA_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/26/2024 14:44	51904	COPA_T1	1	1	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
8/26/2024 14:44	27604	PIRI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:44	61102	BERK_T5	0	0	0	0	0	0	0.36	0.38	2	2	0	1200	1200	0
8/26/2024 14:44	15001	BLMO_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/26/2024 14:44	61501	EPET_T2	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
8/26/2024 14:44	62604	ENGL_T1	0	0	0	0	0	0	0.06	-0.18	1	1	0	600	600	0
8/26/2024 14:44	62606	ENGL_T1	0	8	8	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 14:44	10702	CATA_T2	0	0	0	0	0	0	-0.24	-0.28	0	0	0	0	0	0
8/26/2024 14:44	60701	BREC_T1	9	10	1	1.39	1.55	0.16	0	0	0	0	0	0	0	0
8/26/2024 14:44	46204	DANV_T2	0	14	14	0	0.45	0.45	0	0	0	0	0	0	0	0
8/26/2024 14:44	46206	DANV_T2	2	51	49	2.05	0.5	-1.55	3.28	4.22	4	4	0	4200	4200	0
8/26/2024 14:44	62607	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 14:44	51906	COPA_T1	1	0	-1	0.7	0	-0.7	-1	-0.92	2	2	0	1500	1500	0
8/26/2024 14:44	46203	DANV_T2	1	2	1	5.4	5.4	0	0	0	0	0	0	0	0	0
8/26/2024 14:45	53601	DALM_T2	1	1	0	1	0.9	-0.1	-0.48	-0.44	2	2	0	1500	1500	0
8/26/2024 14:45	25402	LAHA_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
8/26/2024 14:45	62606	ENGL_T1	8	8	0	0.56	0.2	-0.36	0	0	0	0	0	0	0	0
8/26/2024 14:45	41304	FISH_T2	1	1	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
8/26/2024 14:45	62604	ENGL_T1	0	0	0	0	0	0	0.06	-0.18	1	1	0	600	600	0
8/26/2024 14:45	46203	DANV_T2	1	2	1	5.3	5.4	0.1	0	0	0	0	0	0	0	0
8/26/2024 14:45	46206	DANV_T2	20	48	28	0.45	0.46	0.01	1.64	2.11	2	2	0	2100	2100	0
8/26/2024 14:45	61301	EARL_T1	0	0	0	0	0	0	-0.83	-0.89	2	2	0	1800	1800	0
8/26/2024 14:45	61303	EARL_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 14:45	41302	FISH_T2	0	11	11	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:45	46204	DANV_T2	3	13	10	0.53	0.19	-0.34	0	0	0	0	0	0	0	0
8/26/2024 14:45	45702	LIND_T2	1	5	4	0.5	0.46	-0.04	-2.54	-2.4	0	0	0	0	0	0
8/26/2024 14:45	62607	ENGL_T1	1	1	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
8/26/2024 14:45	45902	AUBU_T1	1	1	0	0.1	0.2	0.1	-0.28	-0.23	1	1	0	600	600	0
8/26/2024 14:45	27604	PIRI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:45	13702	SCHN_T1	0	0	0	0	0	0	0.75	0.82	0	0	0	0	0	0
8/26/2024 14:46	60502	NMAN_T2	0	0	0	0	0	0	0.8	0.76	0	0	0	0	0	0
8/26/2024 14:46	41302	FISH_T2	0	11	11	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:46	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:46	62604	ENGL_T1	0	0	0	0	0	0	0.06	-0.18	1	1	0	600	600	0
8/26/2024 14:46	61303	EARL_T1	1	1	0	0.2	0	-0.2	-0.54	-0.74	0	0	0	0	0	0
8/26/2024 14:46	47101	MARL_T1	6	10	4	1.15	0.73	-0.42	-1.6	-1.57	2	2	0	1200	1200	0
8/26/2024 14:46	62607	ENGL_T1	1	1	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
8/26/2024 14:46	62606	ENGL_T1	8	8	0	0.56	0.2	-0.36	0	0	0	0	0	0	0	0
8/26/2024 14:46	41304	FISH_T2	1	1	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
8/26/2024 14:46	29402	BELT_T1	1	1	0	8.2	8	-0.2	0	0	0	0	0	0	0	0
8/26/2024 14:47	12501	MITR_T2	1	1	0	5.8	4.8	-1	0	0	0	0	0	0	0	0
8/26/2024 14:47	22602	KIMB_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
8/26/2024 14:47	22601	KIMB_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/26/2024 14:47	61303	EARL_T1	1	1	0	0.2	0	-0.2	-0.54	-0.74	0	0	0	0	0	0
8/26/2024 14:47	12505	MITR_T2	0	0	0	0	0	0	0.74	0.6	0	0	0	0	0	0
8/26/2024 14:47	12502	MITR_T2	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
8/26/2024 14:47	47101	MARL_T1	6	10	4	1.15	0.73	-0.42	-1.6	-1.57	2	2	0	1200	1200	0
8/26/2024 14:48	63804	HEMP_T1	1	1	0	7.5	7.3	-0.2	-1.01	-0.8	0	0	0	0	0	0
8/26/2024 14:48	46501	LOHA_T1	2	1	-1	1.95	0	-1.95	0	0	0	0	0	0	0	0
8/26/2024 14:48	46506	LOHA_T1	0	0	0	0	0	0	0.49	0.53	0	0	0	0	0	0
8/26/2024 14:48	25402	LAHA_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
8/26/2024 14:48	47101	MARL_T1	6	10	4	1.15	0.73	-0.42	-0.8	-0.79	1	1	0	600	600	0
8/26/2024 14:48	46504	LOHA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/26/2024 14:48	46503	LOHA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 14:49	46501	LOHA_T1	2	1	-1	1.95	0	-1.95	0.54	0.63	1	1	0	1200	1200	0
8/26/2024 14:49	45702	LIND_T2	1	5	4	0.5	0.46	-0.04	-1.27	-1.2	0	0	0	0	0	0
8/26/2024 14:49	44801	EDAN_T2	19	22	3	0.43	0.31	-0.12	-1.14	-1.08	0	0	0	0	0	0
8/26/2024 14:49	46503	LOHA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 14:49	46504	LOHA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/26/2024 14:49	50502	MECH_T1	1	5	4	1	0.75	-0.25	-0.11	-0.15	2	2	0	2100	2100	0
8/26/2024 14:49	64801	MONE_T2	0	0	0	0	0	0	0.96	0.06	0	0	0	0	0	0
8/26/2024 14:50	62102	ELAN_T1	0	0	0	0	0	0	1.65	1.72	0	0	0	0	0	0
8/26/2024 14:50	44201	POIN_T1	0	0	0	0	0	0	-1.58	-1.5	2	2	0	2100	2100	0
8/26/2024 14:50	46504	LOHA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/26/2024 14:50	46506	LOHA_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
8/26/2024 14:50	53501	EVIL_T2	4	6	2	0.55	0.6	0.05	-0.02	-0.02	12	12	0	5600	5600	0
8/26/2024 14:50	46501	LOHA_T1	2	1	-1	1.95	0	-1.95	0	0	0	0	0	0	0	0
8/26/2024 14:50	46503	LOHA_T1	1	0	-1	0.2	0	-0.2	-0.53	-0.52	0	0	0	0	0	0
8/26/2024 14:50	53802	MBRG_T2	0	0	0	0	0	0	0.42	0.5	0	0	0	0	0	0
8/26/2024 14:51	65501	MOJO_T1	0	0	0	0	0	0	-0.56	-0.56	1	1	0	900	900	0
8/26/2024 14:51	46503	LOHA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 14:51	46501	LOHA_T1	2	1	-1	1.95	0	-1.95	0.63	0.51	1	1	0	1200	1200	0
8/26/2024 14:51	66505	SMAN_T2	20	3	-17	0.32	0.6	0.28	0.7	0.73	4	4	0	2300	2300	0
8/26/2024 14:51	66504	SMAN_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/26/2024 14:51	46504	LOHA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/26/2024 14:52	53802	MBRG_T2	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
8/26/2024 14:52	42601	TUSC_T1	0	0	0	0	0	0	-0.18	-0.2	2	2	0	1800	1800	0
8/26/2024 14:54	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:54	45501	DERR_T2	4	4	0	0.48	0.6	0.12	1.1	1.24	2	2	0	1800	1800	0
8/26/2024 14:55	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:55	29402	BELT_T1	1	1	0	8.2	8	-0.2	0	0	0	0	0	0	0	0
8/26/2024 14:55	67901	WNHO_T2	11	5	-6	0.82	0.65	-0.17	0	0	0	0	0	0	0	0
8/26/2024 14:55	42601	TUSC_T1	0	0	0	0	0	0	-0.18	-0.2	2	2	0	1800	1800	0
8/26/2024 14:56	60101	COCA_T1	0	1	1	0	0.3	0.3	-0.01	-0.01	1	1	0	1200	1200	0
8/26/2024 14:56	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:56	46206	DANV_T2	20	48	28	0.45	0.46	0.01	0	0	0	0	0	0	0	0
8/26/2024 14:56	46204	DANV_T2	3	13	10	0.53	0.19	-0.34	0	0	0	0	0	0	0	0
8/26/2024 14:56	46203	DANV_T2	1	2	1	5.3	5.4	0.1	-0.05	-0.02	0	0	0	0	0	0
8/26/2024 14:56	29402	BELT_T1	1	1	0	8.2	8	-0.2	0	0	0	0	0	0	0	0
8/26/2024 14:57	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 14:57	60101	COCA_T1	0	1	1	0	0.3	0.3	-0.01	-0.01	1	1	0	1200	1200	0
8/26/2024 14:57	67503	WEWI_T2	1	1	0	3.4	3.3	-0.1	0.71	0.77	0	0	0	0	0	0
8/26/2024 14:57	45501	DERR_T2	4	4	0	0.48	0.6	0.12	1.1	1.24	2	2	0	1800	1800	0
8/26/2024 14:58	13503	MCMI_T2	6	74	68	0.33	0.23	-0.1	-0.63	-0.63	0	0	0	0	0	0
8/26/2024 14:58	67605	WARW_T1	2	2	0	0.35	0.2	-0.15	-0.69	-0.68	0	0	0	0	0	0
8/26/2024 14:59	46204	DANV_T2	3	13	10	0.53	0.19	-0.34	0	0	0	0	0	0	0	0
8/26/2024 14:59	25402	LAHA_T2	0	0	0	0	0	0	-0.1	-0.38	0	0	0	0	0	0
8/26/2024 14:59	61702	ELIZ_T2	3	0	-3	0.23	0	-0.23	-1.09	-1.13	2	2	0	1500	1500	0
8/26/2024 14:59	46206	DANV_T2	20	48	28	0.45	0.46	0.01	0	0	0	0	0	0	0	0
8/26/2024 14:59	46203	DANV_T2	1	2	1	5.3	5.4	0.1	-0.05	-0.02	0	0	0	0	0	0
8/26/2024 15:00	46204	DANV_T2	13	13	0	0.24	0.19	-0.05	0	0	0	0	0	0	0	0
8/26/2024 15:00	45502	DERR_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 15:00	60101	COCA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/26/2024 15:00	25402	LAHA_T2	0	0	0	0	0	0	-0.1	-0.38	0	0	0	0	0	0
8/26/2024 15:00	67503	WEWI_T2	1	3	2	3.2	3.3	0.1	0.71	0.77	0	0	0	0	0	0
8/26/2024 15:00	46203	DANV_T2	2	1	-1	2.75	5.4	2.65	0	0	0	0	0	0	0	0
8/26/2024 15:00	46206	DANV_T2	48	56	8	0.52	0.47	-0.05	4.22	4.09	4	4	0	4200	4200	0
8/26/2024 15:00	67505	WEWI_T1	0	0	0	0	0	0	0.87	0.87	1	1	0	900	900	0
8/26/2024 15:00	45501	DERR_T2	4	5	1	0.55	0.6	0.05	1.1	1.24	2	2	0	1800	1800	0
8/26/2024 15:00	51401	LYKE_T1	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
8/26/2024 15:01	61701	ELIZ_T1	5	12	7	0.44	0.41	-0.03	2.21	2.12	0	0	0	0	0	0
8/26/2024 15:01	46204	DANV_T2	13	13	0	0.24	0.19	-0.05	0	0	0	0	0	0	0	0
8/26/2024 15:01	46206	DANV_T2	48	56	8	0.52	0.47	-0.05	2.11	2.05	2	2	0	2100	2100	0
8/26/2024 15:01	61703	ELIZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 15:01	46203	DANV_T2	2	1	-1	2.75	5.4	2.65	0	0	0	0	0	0	0	0
8/26/2024 15:02	20601	GRWO_T2	78	20	-58	0.65	0	-0.65	0.45	0.44	1	1	0	1200	1200	0
8/26/2024 15:02	20603	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 15:03	12701	MACU_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 15:03	12704	MACU_T1	0	0	0	0	0	0	-0.61	-0.55	1	1	0	600	600	0
8/26/2024 15:05	48301	ORWI_T1	2	3	1	1.6	1.6	0	0.23	0.18	1	1	0	900	900	0
8/26/2024 15:05	41902	REED_T1	12	11	-1	0.78	0.5	-0.28	0.66	0.76	1	1	0	900	900	0
8/26/2024 15:05	41901	REED_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 15:06	24602	VARD_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/26/2024 15:06	24603	VARD_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/26/2024 15:08	48301	ORWI_T1	2	3	1	1.6	1.6	0	0.18	0.25	1	1	0	900	900	0
8/26/2024 15:09	64101	REFR_T1	6	11	5	0.87	0.23	-0.64	0.03	0.05	0	0	0	0	0	0
8/26/2024 15:10	67901	WNHO_T2	5	2	-3	0.8	0.65	-0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/26/2024 15:11	52402	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 15:11	52403	GRPA_T2	18	18	0	0.87	0.59	-0.28	0	0	0	0	0	0	0	0
8/26/2024 15:11	13702	SCHN_T1	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
8/26/2024 15:11	52401	GRPA_T2	5	12	7	0.36	0	-0.36	0	0	0	0	0	0	0	0
8/26/2024 15:11	52404	GRPA_T2	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
8/26/2024 15:12	52202	DEVO_T2	0	0	0	0	0	0	-1.75	-1.75	0	0	0	0	0	0
8/26/2024 15:12	60101	COCA_T1	0	1	1	0	0.3	0.3	-0.01	-0.05	1	1	0	1200	1200	0
8/26/2024 15:12	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 15:12	66505	SMAN_T2	3	2	-1	0.67	0.7	0.03	0	0	0	0	0	0	0	0
8/26/2024 15:12	61102	BERK_T5	0	0	0	0	0	0	0.41	0.32	2	2	0	1200	1200	0
8/26/2024 15:12	52204	DEVO_T2	5	5	0	0.64	0.17	-0.47	0	0	0	0	0	0	0	0
8/26/2024 15:13	22903	HARW_T1	6	0	-6	0.45	0	-0.45	0	0	0	0	0	0	0	0
8/26/2024 15:13	21204	ECAR_T2	1	3	2	0	0	0	-0.41	-0.38	0	0	0	0	0	0
8/26/2024 15:13	46001	BERW_T1	0	0	0	0	0	0	-0.75	-0.94	0	0	0	0	0	0
8/26/2024 15:13	52204	DEVO_T2	5	5	0	0.64	0.17	-0.47	0	0	0	0	0	0	0	0
8/26/2024 15:13	21206	ECAR_T2	11	29	18	0.95	0.72	-0.23	0	0	0	0	0	0	0	0
8/26/2024 15:13	22901	HARW_T1	5	0	-5	0.16	0	-0.16	-0.19	-0.09	1	1	0	1200	1200	0
8/26/2024 15:13	52202	DEVO_T2	0	0	0	0	0	0	-1.75	-1.75	0	0	0	0	0	0
8/26/2024 15:14	52204	DEVO_T2	5	5	0	0.64	0.17	-0.47	0	0	0	0	0	0	0	0
8/26/2024 15:14	46001	BERW_T1	0	0	0	0	0	0	-0.75	-0.94	0	0	0	0	0	0
8/26/2024 15:14	52202	DEVO_T2	0	0	0	0	0	0	-1.75	-1.75	0	0	0	0	0	0
8/26/2024 15:15	67602	WARW_T2	0	0	0	0	0	0	0.48	0.14	1	2	1	300	1500	1200
8/26/2024 15:16	63401	HONY_T1	1	0	-1	0.3	0	-0.3	0.06	0.14	1	1	0	600	600	0
8/26/2024 15:16	52004	LING_T2	2	3	1	4.6	4.6	0	0.77	0.7	0	0	0	0	0	0
8/26/2024 15:17	14605	SWHI_T1	2	3	1	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/26/2024 15:17	14602	SWHI_T1	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
8/26/2024 15:18	63401	HONY_T1	1	0	-1	0.3	0	-0.3	0.06	0.14	1	1	0	600	600	0
8/26/2024 15:23	57403	SPAN_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/26/2024 15:23	57401	SPAN_T1	0	5	5	0	0	0	-0.06	-0.1	1	1	0	600	600	0
8/26/2024 15:24	64101	REFR_T1	9	6	-3	0.91	0.23	-0.68	0.05	0.06	0	0	0	0	0	0
8/26/2024 15:25	14401	SSLA_T1	1	3	2	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
8/26/2024 15:25	14404	SSLA_T1	9	25	16	0.98	0.77	-0.21	0	0	0	0	0	0	0	0
8/26/2024 15:25	16103	BING_T2	4	4	0	0.3	0.53	0.23	-2.12	-2.12	2	2	0	1500	1500	0
8/26/2024 15:25	16102	BING_T2	3	5	2	1.37	1.25	-0.12	0	0	0	0	0	0	0	0
8/26/2024 15:25	14402	SSLA_T1	2	13	11	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
8/26/2024 15:25	16101	BING_T2	1	2	1	0.4	0.95	0.55	0	0	0	0	0	0	0	0
8/26/2024 15:25	14403	SSLA_T1	1	2	1	0.2	0.3	0.1	0.49	0.57	0	0	0	0	0	0
8/26/2024 15:26	46503	LOHA_T1	0	0	0	0	0	0	-0.53	-0.51	0	0	0	0	0	0
8/26/2024 15:26	46504	LOHA_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/26/2024 15:27	45901	AUBU_T1	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
8/26/2024 15:28	46203	DANV_T2	1	1	0	5.4	5	-0.4	-0.01	0	0	0	0	0	0	0
8/26/2024 15:28	47401	PENS_T1	0	19	19	0	0.45	0.45	0.86	0.82	0	0	0	0	0	0
8/26/2024 15:28	46204	DANV_T2	11	15	4	0.19	0.22	0.03	0	0	0	0	0	0	0	0
8/26/2024 15:28	47403	PENS_T1	1	2	1	1.4	0.95	-0.45	0	0	0	0	0	0	0	0
8/26/2024 15:28	46206	DANV_T2	41	60	19	0.48	0.65	0.17	0	0	0	0	0	0	0	0
8/26/2024 15:29	53901	HALI_T2	1	3	2	0.4	0.6	0.2	-1.92	-2	0	0	0	0	0	0
8/26/2024 15:29	53902	HALI_T2	1	1	0	3.9	3.9	0	0	0	0	0	0	0	0	0
8/26/2024 15:29	53903	HALI_T2	2	2	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
8/26/2024 15:30	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 15:30	53902	HALI_T2	1	1	0	3.9	3.9	0	-1.11	-1.09	0	0	0	0	0	0
8/26/2024 15:30	53901	HALI_T2	1	3	2	0.6	0	-0.6	-0.64	-0.67	0	0	0	0	0	0
8/26/2024 15:30	63804	HEMP_T1	1	1	0	7.2	7	-0.2	-0.91	-0.89	0	0	0	0	0	0
8/26/2024 15:30	53903	HALI_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
8/26/2024 15:31	11405	FARM_T1	2	4	2	0.5	0.63	0.13	0.55	0.52	1	1	0	1200	1200	0
8/26/2024 15:31	11402	FARM_T1	3	7	4	0.27	0.77	0.5	0	0	0	0	0	0	0	0
8/26/2024 15:31	45802	HEGI_T2	24	6	-18	0.55	0	-0.55	0.08	0.62	1	1	0	900	900	0
8/26/2024 15:31	55101	WERT_T1	9	44	35	0.43	0.71	0.28	-2.21	-2.02	4	4	0	3300	3300	0
8/26/2024 15:31	55105	WERT_T1	5	3	-2	1.04	1.4	0.36	0	0	0	0	0	0	0	0
8/26/2024 15:32	44802	EDAN_T2	0	0	0	0	0	0	-1.31	-1.35	0	0	0	0	0	0
8/26/2024 15:32	44801	EDAN_T2	5	6	1	0.32	0.32	0	0	0	0	0	0	0	0	0
8/26/2024 15:33	53903	HALI_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
8/26/2024 15:33	53902	HALI_T2	1	1	0	3.9	3.9	0	-0.37	-0.36	0	0	0	0	0	0
8/26/2024 15:33	53901	HALI_T2	1	3	2	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/26/2024 15:37	41902	REED_T1	9	18	9	0.54	0.43	-0.11	0.7	0.67	1	1	0	900	900	0
8/26/2024 15:37	41901	REED_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/26/2024 15:37	13702	SCHN_T1	0	0	0	0	0	0	0.83	0.88	0	0	0	0	0	0
8/26/2024 15:39	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 15:39	16102	BING_T2	2	12	10	1.65	1.05	-0.6	-0.01	-0.04	1	1	0	1200	1200	0
8/26/2024 15:39	16103	BING_T2	4	4	0	0.53	0	-0.53	0	0	0	0	0	0	0	0
8/26/2024 15:39	16101	BING_T2	2	2	0	0.95	0.8	-0.15	0	0	0	0	0	0	0	0
8/26/2024 15:45	45501	DERR_T2	5	2	-3	0.48	0.7	0.22	1.12	1.09	2	2	0	1800	1800	0
8/26/2024 15:50	65603	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 15:50	65601	QVIL_T2	0	25	25	0	0.35	0.35	0	0	0	0	0	0	0	0
8/26/2024 15:50	65602	QVIL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/26/2024 15:50	65604	QVIL_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
8/26/2024 15:51	65602	QVIL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
8/26/2024 15:51	65603	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 15:51	65601	QVIL_T2	0	25	25	0	0.35	0.35	0	0	0	0	0	0	0	0
8/26/2024 15:51	65604	QVIL_T2	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
8/26/2024 15:52	45302	WBER_T2	0	0	0	0	0	0	1.52	1.52	0	0	0	0	0	0
8/26/2024 15:52	52202	DEVO_T2	0	0	0	0	0	0	-1.72	-1.7	0	0	0	0	0	0
8/26/2024 15:52	52204	DEVO_T2	5	6	1	0.78	0.82	0.04	0	0	0	0	0	0	0	0
8/26/2024 15:53	64101	REFR_T1	5	8	3	0.42	0	-0.42	0.08	0.08	0	0	0	0	0	0
8/26/2024 15:53	67103	SPRI_T1	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
8/26/2024 15:56	46001	BERW_T1	0	0	0	0	0	0	-2.08	2.35	0	0	0	0	0	0
8/26/2024 15:56	45302	WBER_T2	0	0	0	0	0	0	1.52	1.52	0	0	0	0	0	0
8/26/2024 15:59	61304	EARL_T1	0	0	0	0	0	0	-0.82	-0.79	1	1	0	600	600	0
8/26/2024 16:00	64301	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 16:00	64305	LINC_T1	0	0	0	0	0	0	-0.08	-0.26	0	0	0	0	0	0
8/26/2024 16:00	53601	DALM_T2	0	0	0	0	0	0	-0.1	-0.06	1	1	0	600	600	0
8/26/2024 16:03	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
8/26/2024 16:03	52101	MEIS_T1	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/26/2024 16:06	58401	MORO_T1	12	30	18	0.54	0.58	0.04	0	0	0	0	0	0	0	0
8/26/2024 16:06	46302	ROHR_T1	0	3	3	0	1.1	1.1	0.31	0.31	0	0	0	0	0	0
8/26/2024 16:06	12305	LANA_T2	2	6	4	0.3	0.33	0.03	0	0	0	0	0	0	0	0
8/26/2024 16:06	12302	LANA_T2	0	0	0	0	0	0	-1.66	-1.66	3	3	0	2700	2700	0
8/26/2024 16:06	14703	TREX_T2	1	1	0	1.8	2.2	0.4	0	0	0	0	0	0	0	0
8/26/2024 16:06	14307	SUMN_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 16:06	14702	TREX_T2	0	0	0	0	0	0	1.56	1.53	0	0	0	0	0	0
8/26/2024 16:06	12301	LANA_T2	5	4	-1	0.46	0	-0.46	0	0	0	0	0	0	0	0
8/26/2024 16:06	12304	LANA_T2	19	23	4	0.46	0.49	0.03	0	0	0	0	0	0	0	0
8/26/2024 16:06	14303	SUMN_T1	8	8	0	3.56	4.08	0.52	0	0	0	0	0	0	0	0
8/26/2024 16:06	58402	MORO_T1	5	8	3	0.72	0.68	-0.04	-1.46	-1.4	4	4	0	2700	2700	0
8/26/2024 16:06	14306	SUMN_T1	2	7	5	0.5	0.68	0.18	0	0	0	0	0	0	0	0
8/26/2024 16:06	46301	ROHR_T1	1	2	1	3.4	2	-1.4	0	0	0	0	0	0	0	0
8/26/2024 16:06	14301	SUMN_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 16:06	14308	SUMN_T1	0	1	1	0	0	0	0.39	0.4	0	0	0	0	0	0
8/26/2024 16:07	46302	ROHR_T1	0	3	3	0	1.1	1.1	0.31	0.31	0	0	0	0	0	0
8/26/2024 16:07	46301	ROHR_T1	1	2	1	3.4	2	-1.4	0	0	0	0	0	0	0	0
8/26/2024 16:09	65901	SAKR_T2	1	4	3	5.8	5.7	-0.1	-0.19	-0.19	2	2	0	1500	1500	0
8/26/2024 16:09	10601	BLGL_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/26/2024 16:09	10603	BLGL_T1	41	47	6	0.6	0.61	0.01	-0.12	-0.08	0	0	0	0	0	0
8/26/2024 16:10	14703	TREX_T2	1	1	0	1.8	2.2	0.4	0	0	0	0	0	0	0	0
8/26/2024 16:10	14702	TREX_T2	0	0	0	0	0	0	1.56	1.53	0	0	0	0	0	0
8/26/2024 16:12	60801	BUCK_T1	0	0	0	0	0	0	-0.99	-0.18	1	1	0	600	600	0
8/26/2024 16:17	65503	MOJO_T2	2	3	1	0.6	1.8	1.2	0.2	0.18	1	1	0	900	900	0
8/26/2024 16:19	53501	EVIL_T2	1	2	1	0.2	0.2	0	-0.02	-0.02	6	6	0	3600	2400	-1200
8/26/2024 16:20	53501	EVIL_T2	1	2	1	0.2	0.2	0	-0.01	-0.01	2	2	0	1200	800	-400
8/26/2024 16:21	15601	NSTR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 16:21	15603	NSTR_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
8/26/2024 16:24	47101	MARL_T1	22	41	19	0.95	0.86	-0.09	-0.74	-0.72	1	1	0	600	600	0
8/26/2024 16:24	53501	EVIL_T2	1	2	1	0.2	0.2	0	-0.01	-0.01	2	2	0	800	800	0
8/26/2024 16:24	12202	FOGE_T2	0	1	1	0	0.2	0.2	0	0	1	1	0	600	600	0
8/26/2024 16:25	57106	SPHI_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
8/26/2024 16:25	57101	SPHI_T2	6	1	-5	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
8/26/2024 16:25	57104	SPHI_T2	0	0	0	0	0	0	-1.8	-1.75	1	1	0	900	900	0
8/26/2024 16:30	45901	AUBU_T1	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
8/26/2024 16:31	40802	EXCH_T2	1	0	-1	0.1	0	-0.1	-0.66	-0.64	0	0	0	0	0	0
8/26/2024 16:34	11402	FARM_T1	8	7	-1	1.51	2.06	0.55	0	0	0	0	0	0	0	0
8/26/2024 16:34	11405	FARM_T1	4	2	-2	0.4	0.2	-0.2	0.4	0.41	1	1	0	1200	1200	0
8/26/2024 16:34	64201	KINZ_T1	2	0	-2	0.75	0	-0.75	-0.93	-0.98	5	5	0	3300	3300	0
8/26/2024 16:34	64204	KINZ_T1	2	1	-1	0.5	0.5	0	0	0	0	0	0	0	0	0
8/26/2024 16:34	64203	KINZ_T1	9	8	-1	0.98	0.73	-0.25	0	0	0	0	0	0	0	0
8/26/2024 16:36	54602	SUMM_T2	3	6	3	0.73	0.55	-0.18	0	0	0	0	0	0	0	0
8/26/2024 16:36	54601	SUMM_T2	0	0	0	0	0	0	-1.85	-1.84	3	3	0	3000	3000	0
8/26/2024 16:38	40901	JESH_T1	1	0	-1	1.1	0.1	-1	0	0	0	0	0	0	0	0
8/26/2024 16:38	40902	JESH_T1	0	1	1	0	0	0	-1.06	-1.08	2	2	0	1200	1200	0
8/26/2024 16:38	65503	MOJO_T2	3	1	-2	0.87	1.5	0.63	0.2	0.18	1	1	0	900	900	0
8/26/2024 16:39	42201	SHEN_T2	0	0	0	0	0	0	0.54	0.47	1	1	0	600	600	0
8/26/2024 16:40	67106	SPRI_T2	0	0	0	0	0	0	-1.17	-1.18	1	1	0	900	900	0
8/26/2024 16:40	64101	REFR_T1	3	6	3	0.73	0.22	-0.51	0.1	0.09	0	0	0	0	0	0
8/26/2024 16:41	45501	DERR_T2	3	9	6	0.8	0.36	-0.44	1.13	0.93	2	2	0	1800	1800	0
8/26/2024 16:41	45502	DERR_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 16:41	20403	ASHF_T2	8	3	-5	0.29	0.4	0.11	1.27	1.35	0	0	0	0	0	0
8/26/2024 16:41	20401	ASHF_T2	6	6	0	2.22	1.66	-0.56	0	0	0	0	0	0	0	0
8/26/2024 16:41	20402	ASHF_T2	6	16	10	0.35	1.14	0.79	0	0	0	0	0	0	0	0
8/26/2024 16:43	45502	DERR_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 16:43	45501	DERR_T2	3	9	6	0.8	0.36	-0.44	1.13	0.93	2	2	0	1800	1800	0
8/26/2024 16:44	41602	CLEV_T1	4	22	18	0.68	0.83	0.15	0	0	1	1	0	600	600	0
8/26/2024 16:45	67605	WARW_T1	1	1	0	0.3	0.8	0.5	-0.66	-0.67	0	0	0	0	0	0
8/26/2024 16:47	42902	MIDD_T2	6	27	21	0.95	0.83	-0.12	0.01	0.01	0	0	0	0	0	0
8/26/2024 16:47	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 16:47	42903	MIDD_T2	4	9	5	0.78	0.23	-0.55	0	0	0	0	0	0	0	0
8/26/2024 16:48	42903	MIDD_T2	4	9	5	0.78	0.23	-0.55	0	0	0	0	0	0	0	0
8/26/2024 16:48	67605	WARW_T1	1	1	0	0.3	0.8	0.5	-0.66	-0.67	0	0	0	0	0	0
8/26/2024 16:48	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 16:48	42902	MIDD_T2	6	27	21	0.95	0.83	-0.12	0.04	0.03	0	0	0	0	0	0
8/26/2024 16:50	44905	SCOT_T1	8	3	-5	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/26/2024 16:55	49803	UNIV_T1	1	1	0	6.6	6.7	0.1	-1.46	-1.38	0	0	0	0	0	0
8/26/2024 16:56	64101	REFR_T1	5	8	3	0.22	0.6	0.38	0.09	0.13	0	0	0	0	0	0
8/26/2024 16:56	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 16:56	40502	CRES_T2	14	1	-13	0.36	0.2	-0.16	-2.8	-2.76	0	0	0	0	0	0
8/26/2024 16:58	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/26/2024 16:58	40502	CRES_T2	14	1	-13	0.36	0.2	-0.16	-4.66	-4.6	0	0	0	0	0	0
8/26/2024 16:58	40802	EXCH_T2	0	0	0	0	0	0	-0.59	-0.63	0	0	0	0	0	0
8/26/2024 16:59	40502	CRES_T2	14	1	-13	0.36	0.2	-0.16	-2.8	-2.76	0	0	0	0	0	0
8/26/2024 16:59	14801	TREI_T2	1	5	4	0.2	0.2	0	0	0	0	0	0	0	0	0
8/26/2024 16:59	14802	TREI_T2	1	5	4	1.6	1.05	-0.55	1.37	1.4	0	0	0	0	0	0
8/26/2024 16:59	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 17:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 17:00	40802	EXCH_T2	0	0	0	0	0	0	-0.59	-0.63	0	0	0	0	0	0
8/26/2024 17:00	11903	ETEX_T1	0	0	0	0	0	0	1.41	1.5	0	0	0	0	0	0
8/26/2024 17:00	40502	CRES_T2	1	4	3	0.2	0.2	0	-1.86	-1.84	0	0	0	0	0	0
8/26/2024 17:01	40502	CRES_T2	1	4	3	0.2	0.2	0	-0.93	-0.92	0	0	0	0	0	0
8/26/2024 17:01	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 17:01	47104	MARL_T1	0	9	9	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 17:01	47101	MARL_T1	26	33	7	0.63	0.76	0.13	-0.67	-0.75	1	1	0	600	600	0
8/26/2024 17:02	47101	MARL_T1	26	33	7	0.63	0.76	0.13	-0.67	-0.75	1	1	0	600	600	0
8/26/2024 17:02	46901	MNTG_T2	0	0	0	0	0	0	0.88	0.86	1	1	0	1200	1200	0
8/26/2024 17:02	47104	MARL_T1	0	9	9	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 17:03	47101	MARL_T1	26	33	7	0.63	0.76	0.13	-0.67	-0.75	1	1	0	600	600	0
8/26/2024 17:03	47104	MARL_T1	0	9	9	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 17:04	12701	MACU_T1	8	6	-2	0.43	0.35	-0.08	-0.61	-0.64	1	1	0	1200	1200	0
8/26/2024 17:04	12704	MACU_T1	5	5	0	0.6	0.34	-0.26	0	0	0	0	0	0	0	0
8/26/2024 17:04	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/26/2024 17:04	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 17:05	44902	SCOT_T2	0	0	0	0	0	0	-1.65	-1.68	0	0	0	0	0	0
8/26/2024 17:07	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 17:12	64101	REFR_T1	6	6	0	0.48	0	-0.48	0.13	0.09	0	0	0	0	0	0
8/26/2024 17:17	51401	LYKE_T1	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
8/26/2024 17:17	40502	CRES_T2	1	6	5	0.1	0.27	0.17	-0.92	-0.91	0	0	0	0	0	0
8/26/2024 17:17	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 17:20	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 17:22	58701	ROSE_T2	0	0	0	0	0	0	-1.08	-1.16	2	2	0	1200	1200	0
8/26/2024 17:22	58705	ROSE_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
8/26/2024 17:22	58706	ROSE_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
8/26/2024 17:23	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 17:29	62102	ELAN_T1	0	0	0	0	0	0	1.07	1.12	0	0	0	0	0	0
8/26/2024 17:30	62102	ELAN_T1	0	0	0	0	0	0	1.07	1.12	0	0	0	0	0	0
8/26/2024 17:32	40101	HUNT_T2	17	38	21	0.53	0.33	-0.2	-1.29	-1.3	0	0	0	0	0	0
8/26/2024 17:33	45902	AUBU_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/26/2024 17:33	45901	AUBU_T1	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
8/26/2024 17:38	49804	UNIV_T1	0	1	1	0	0	0	0.32	0.26	0	0	0	0	0	0
8/26/2024 17:38	49803	UNIV_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
8/26/2024 17:41	58401	MORO_T1	11	27	16	0.59	0.66	0.07	-6.1	-6.03	6	6	0	4500	4500	0
8/26/2024 17:41	49804	UNIV_T1	0	1	1	0	0	0	0.32	0.26	0	0	0	0	0	0
8/26/2024 17:41	58402	MORO_T1	11	19	8	0.7	0.97	0.27	0	0	0	0	0	0	0	0
8/26/2024 17:41	49803	UNIV_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
8/26/2024 17:41	57401	SPAN_T1	2	4	2	0.65	0.7	0.05	-0.22	-0.25	1	1	0	600	600	0
8/26/2024 17:48	64302	LINC_T2	3	4	1	0.33	0.2	-0.13	0.97	0.94	0	0	0	0	0	0
8/26/2024 17:51	64305	LINC_T1	1	0	-1	0.4	0	-0.4	-0.33	-0.26	0	0	0	0	0	0
8/26/2024 17:51	22903	HARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 18:01	24204	PROV_T3	1	1	0	7.1	6.6	-0.5	0	0	0	0	0	0	0	0
8/26/2024 18:01	24201	PROV_T3	17	12	-5	0.56	1.3	0.74	0	0	2	2	0	2100	2100	0
8/26/2024 18:01	24205	PROV_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 18:05	51002	NHAR_T1	1	1	0	0	0.3	0.3	0	0	0	0	0	0	0	0
8/26/2024 18:05	51004	NHAR_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
8/26/2024 18:05	51003	NHAR_T1	0	0	0	0	0	0	-1.22	-1.26	1	1	0	1200	1200	0
8/26/2024 18:06	43304	WATS_T2	2	9	7	0.1	0.1	0	0	0	0	0	0	0	0	0
8/26/2024 18:06	24201	PROV_T3	17	12	-5	0.56	1.3	0.74	0	0	2	2	0	2100	2100	0
8/26/2024 18:06	24205	PROV_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 18:06	43301	WATS_T2	0	0	0	0	0	0	0.06	0.04	1	1	0	900	900	0
8/26/2024 18:06	52502	PROG_T2	0	0	0	0	0	0	0.41	0.39	1	1	0	900	900	0
8/26/2024 18:06	24204	PROV_T3	1	1	0	7.1	6.6	-0.5	0	0	0	0	0	0	0	0
8/26/2024 18:07	67002	STHI_T2	0	1	1	0	0.8	0.8	-0.35	-0.33	1	1	0	600	600	0
8/26/2024 18:10	44301	BEAV_T2	51	48	-3	0.71	0.65	-0.06	-0.12	-0.14	1	1	0	600	600	0
8/26/2024 18:13	44301	BEAV_T2	51	48	-3	0.71	0.65	-0.06	-0.12	-0.14	1	1	0	600	600	0
8/26/2024 18:15	44301	BEAV_T2	39	42	3	0.7	0.57	-0.13	0	0	0	0	0	0	0	0
8/26/2024 18:20	15202	SFAR_T1	0	0	0	0	0	0	-0.24	-0.24	1	1	0	1200	1200	0
8/26/2024 18:22	41901	REED_T1	7	8	1	0.41	0.5	0.09	0	0	0	0	0	0	0	0
8/26/2024 18:22	41902	REED_T1	115	120	5	0.73	0.58	-0.15	0.72	0.82	1	1	0	900	900	0
8/26/2024 18:30	61501	EPET_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
8/26/2024 18:31	67503	WEWI_T2	3	1	-2	1.37	4.7	3.33	0	0	0	0	0	0	0	0
8/26/2024 18:31	67502	WEWI_T2	0	3	3	0	0	0	-0.64	-0.75	1	1	0	900	900	0
8/26/2024 18:35	40101	HUNT_T2	31	6	-25	0.38	0.1	-0.28	-1.37	-1.42	0	0	0	0	0	0
8/26/2024 18:36	13201	PALM_T1	3	3	0	0.9	0.87	-0.03	-1.28	0.02	1	1	0	1200	1200	0
8/26/2024 18:41	64101	REFR_T1	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
8/26/2024 18:46	54501	ENOL_T2	0	0	0	0	0	0	-0.76	-0.79	2	2	0	1500	1500	0
8/26/2024 18:55	14602	SWHI_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/26/2024 18:55	14605	SWHI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 18:55	14603	SWHI_T1	0	0	0	0	0	0	-0.82	-0.85	2	2	0	1200	1200	0
8/26/2024 18:55	52403	GRPA_T2	64	64	0	1.28	0.96	-0.32	-0.2	-0.12	0	0	0	0	0	0
8/26/2024 18:55	52401	GRPA_T2	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
8/26/2024 18:55	52402	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/26/2024 18:58	20403	ASHF_T2	2	0	-2	0.55	0	-0.55	1.01	0.99	0	0	0	0	0	0
8/26/2024 18:58	20402	ASHF_T2	4	2	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 18:58	20401	ASHF_T2	5	6	1	1.26	0.45	-0.81	0	0	0	0	0	0	0	0
8/26/2024 18:59	10702	CATA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 18:59	57004	WHHI_T2	0	0	0	0	0	0	-0.53	-0.6	0	0	0	0	0	0
8/26/2024 18:59	10705	CATA_T2	0	1	1	0	0	0	-1.18	-1.23	1	1	0	900	900	0
8/26/2024 19:01	63305	GREE_T1	16	17	1	0.39	0.36	-0.03	-1.63	-1.55	1	1	0	900	900	0
8/26/2024 19:01	63301	GREE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 19:01	63304	GREE_T1	7	58	51	0.17	0.17	0	0	0	0	0	0	0	0	0
8/26/2024 19:22	46506	LOHA_T1	0	0	0	0	0	0	0.23	0.31	0	0	0	0	0	0
8/26/2024 19:22	46501	LOHA_T1	4	2	-2	0.48	0.7	0.22	0	0	0	0	0	0	0	0
8/26/2024 19:22	46504	LOHA_T1	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
8/26/2024 19:36	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	800	800	0
8/26/2024 20:23	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 20:31	20601	GRWO_T2	121	112	-9	0.87	0.61	-0.26	1.04	1.01	0	0	0	0	0	0
8/26/2024 20:45	42302	MOWR_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
8/26/2024 21:21	25603	ARRO_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
8/26/2024 21:33	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:37	12402	MILF_T1	4	5	1	0.93	1.9	0.97	0.8	0.8	0	0	0	0	0	0
8/26/2024 21:39	23202	HIRU_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
8/26/2024 21:40	15604	NSTR_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
8/26/2024 21:40	61701	ELIZ_T1	1	1	0	1.4	2	0.6	1.78	1.79	0	0	0	0	0	0
8/26/2024 21:41	15601	NSTR_T2	1	3	2	0.2	0.53	0.33	0	0	0	0	0	0	0	0
8/26/2024 21:41	16101	BING_T2	0	0	0	0	0	0	0.94	0.86	0	0	0	0	0	0
8/26/2024 21:41	25402	LAHA_T2	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
8/26/2024 21:41	53102	WTWM_T1	103	97	-6	0.17	0.15	-0.02	-2.12	-2.15	0	0	0	0	0	0
8/26/2024 21:41	16402	MOPO_T1	0	0	0	0	0	0	0.29	0.4	0	0	0	0	0	0
8/26/2024 21:41	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/26/2024 21:41	61303	EARL_T1	0	0	0	0	0	0	0.13	0.05	0	0	0	0	0	0
8/26/2024 21:41	15703	TANN_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
8/26/2024 21:41	15702	TANN_T2	0	0	0	0	0	0	-0.21	-0.25	0	0	0	0	0	0
8/26/2024 21:41	16102	BING_T2	11	15	4	0.25	0.4	0.15	0	0	0	0	0	0	0	0
8/26/2024 21:41	15603	NSTR_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
8/26/2024 21:41	65207	PRIN_T4	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/26/2024 21:41	66903	SHIL_T2	0	0	0	0	0	0	-1.12	-1.17	0	0	0	0	0	0
8/26/2024 21:42	63403	HONY_T2	0	0	0	0	0	0	-1.94	-1.39	1	1	0	600	600	0
8/26/2024 21:42	22002	BOHE_T1	0	0	0	0	0	0	-0.86	-0.85	0	0	0	0	0	0
8/26/2024 21:42	29402	BELT_T1	1	1	0	8	8.9	0.9	0	0	0	0	0	0	0	0
8/26/2024 21:42	22003	BOHE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 21:43	60701	BREC_T1	0	0	0	0	0	0	-0.19	-0.19	1	1	0	600	600	0
8/26/2024 21:43	10805	CHHI_T2	2	1	-1	4.9	8.7	3.8	-0.43	-0.52	1	1	0	600	600	0
8/26/2024 21:43	64202	KINZ_T1	0	3	3	0	0.25	0.25	0	0	0	0	0	0	0	0
8/26/2024 21:43	44201	POIN_T1	16	85	69	0.15	0.22	0.07	-2.07	-2.11	2	2	0	2100	2100	0
8/26/2024 21:43	13303	ORVI_T1	0	0	0	0	0	0	0.15	0.09	0	0	0	0	0	0
8/26/2024 21:43	16503	STRO_T2	0	0	0	0	0	0	-0.63	-0.61	1	1	0	1200	1200	0
8/26/2024 21:43	64201	KINZ_T1	0	0	0	0	0	0	-0.44	-0.48	3	3	0	1500	1500	0
8/26/2024 21:43	65604	QVIL_T2	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
8/26/2024 21:43	64204	KINZ_T1	1	1	0	0.2	1.2	1	0	0	0	0	0	0	0	0
8/26/2024 21:44	16201	POFA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/26/2024 21:44	16402	MOPO_T1	0	0	0	0	0	0	0.29	0.4	0	0	0	0	0	0
8/26/2024 21:44	29402	BELT_T1	1	1	0	8	8.9	0.9	0	0	0	0	0	0	0	0
8/26/2024 21:44	11103	EGYP_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
8/26/2024 21:44	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:44	64204	KINZ_T1	1	1	0	0.2	1.2	1	0	0	0	0	0	0	0	0
8/26/2024 21:44	64904	MILL_T1	0	0	0	0	0	0	0.21	0.13	0	0	0	0	0	0
8/26/2024 21:44	64202	KINZ_T1	0	3	3	0	0.25	0.25	0	0	0	0	0	0	0	0
8/26/2024 21:44	29401	BELT_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
8/26/2024 21:44	64201	KINZ_T1	0	0	0	0	0	0	-0.44	-0.48	3	3	0	1500	1500	0
8/26/2024 21:45	25402	LAHA_T2	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
8/26/2024 21:45	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:45	16302	ALPA_T2	0	0	0	0	0	0	2.12	2.09	0	0	0	0	0	0
8/26/2024 21:45	11104	EGYP_T1	0	0	0	0	0	0	0.6	0.53	0	0	0	0	0	0
8/26/2024 21:45	66903	SHIL_T2	0	0	0	0	0	0	-1.12	-1.17	0	0	0	0	0	0
8/26/2024 21:45	16102	BING_T2	13	15	2	0.25	0.4	0.15	-0.58	-0.59	1	1	0	1200	1200	0
8/26/2024 21:45	11102	EGYP_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/26/2024 21:45	51401	LYKE_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
8/26/2024 21:45	13503	MCMI_T2	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
8/26/2024 21:46	57401	SPAN_T1	2	2	0	0.6	0.7	0.1	-0.82	-1.17	1	1	0	600	600	0
8/26/2024 21:46	15702	TANN_T2	0	0	0	0	0	0	-0.21	-0.25	0	0	0	0	0	0
8/26/2024 21:46	67106	SPRI_T2	0	0	0	0	0	0	-0.91	-0.89	1	1	0	900	900	0
8/26/2024 21:46	15703	TANN_T2	1	1	0	5.3	5	-0.3	0	0	0	0	0	0	0	0
8/26/2024 21:46	57403	SPAN_T1	26	29	3	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
8/26/2024 21:46	52502	PROG_T2	0	0	0	0	0	0	-0.1	-0.16	1	1	0	900	900	0
8/26/2024 21:46	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:46	61701	ELIZ_T1	1	1	0	1.8	2	0.2	3.57	3.58	0	0	0	0	0	0
8/26/2024 21:46	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/26/2024 21:46	41304	FISH_T2	1	1	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
8/26/2024 21:46	29402	BELT_T1	1	2	1	8.9	8.7	-0.2	0	0	0	0	0	0	0	0
8/26/2024 21:46	29401	BELT_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
8/26/2024 21:46	61303	EARL_T1	0	0	0	0	0	0	0.13	0.05	0	0	0	0	0	0
8/26/2024 21:46	11507	FREE_T2	7	6	-1	0.34	0.15	-0.19	0.84	0.7	1	1	0	600	600	0
8/26/2024 21:46	63602	LETO_T1	0	0	0	0	0	0	-0.47	-0.54	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/26/2024 21:47	12302	LANA_T2	0	0	0	0	0	0	-2.19	-2.22	3	3	0	2700	2700	0
8/26/2024 21:47	40502	CRES_T2	11	10	-1	0.25	0.25	0	-0.84	-0.87	0	0	0	0	0	0
8/26/2024 21:47	67002	STHI_T2	0	0	0	0	0	0	-0.79	-0.84	1	1	0	600	600	0
8/26/2024 21:47	53902	HALI_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
8/26/2024 21:47	66703	STRA_T1	2	5	3	0.1	0.34	0.24	-0.6	-0.67	0	0	0	0	0	0
8/26/2024 21:47	13904	SEID_T1	3	4	1	0.17	0.3	0.13	0	0	0	0	0	0	0	0
8/26/2024 21:47	43105	SMIL_T2	3	4	1	0.13	0.13	0	0	0	0	0	0	0	0	0
8/26/2024 21:47	12704	MACU_T1	0	0	0	0	0	0	-0.43	-0.47	0	0	0	0	0	0
8/26/2024 21:47	44203	POIN_T2	0	0	0	0	0	0	-0.14	-0.25	2	2	0	2100	2100	0
8/26/2024 21:47	12701	MACU_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:47	12505	MITR_T2	0	0	0	0	0	0	0.13	-0.09	0	0	0	0	0	0
8/26/2024 21:47	46001	BERW_T1	0	0	0	0	0	0	-0.65	-0.7	0	0	0	0	0	0
8/26/2024 21:47	43104	SMIL_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	300	300	0
8/26/2024 21:47	12502	MITR_T2	1	1	0	6.8	6.5	-0.3	0	0	0	0	0	0	0	0
8/26/2024 21:47	43102	SMIL_T2	4	6	2	0.25	0.37	0.12	0	0	0	0	0	0	0	0
8/26/2024 21:47	20601	GRWO_T2	7	2	-5	0.24	0	-0.24	0.89	0.91	0	0	0	0	0	0
8/26/2024 21:47	53903	HALI_T2	2	2	0	0.65	1.1	0.45	0	0	0	0	0	0	0	0
8/26/2024 21:47	43103	SMIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:47	53901	HALI_T2	1	1	0	0.6	0.4	-0.2	-0.92	-0.92	0	0	0	0	0	0
8/26/2024 21:47	63403	HONY_T2	0	0	0	0	0	0	-1.94	-1.39	1	1	0	600	600	0
8/26/2024 21:47	42802	SELI_T1	0	0	0	0	0	0	-1.22	-1.25	1	1	0	900	900	0
8/26/2024 21:47	13503	MCMI_T2	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
8/26/2024 21:47	13905	SEID_T1	0	0	0	0	0	0	-0.61	-0.61	1	1	0	1200	1200	0
8/26/2024 21:47	44202	POIN_T2	1	1	0	4.7	4	-0.7	0	0	0	0	0	0	0	0
8/26/2024 21:47	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-0.87	-0.86	1	1	0	600	600	0
8/26/2024 21:47	24204	PROV_T3	1	1	0	7	7	0	0	0	0	0	0	0	0	0
8/26/2024 21:47	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:47	24201	PROV_T3	1	1	0	7.9	8.5	0.6	0	0	2	2	0	2100	2100	0
8/26/2024 21:47	66902	SHIL_T2	0	0	0	0	0	0	-1.27	-1.32	0	0	0	0	0	0
8/26/2024 21:47	13501	MCMI_T1	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
8/26/2024 21:47	44201	POIN_T1	49	98	49	0.14	0.22	0.08	-2.07	-2.11	2	2	0	2100	2100	0
8/26/2024 21:47	14601	SWHI_T1	0	0	0	0	0	0	-0.58	-0.66	0	0	0	0	0	0
8/26/2024 21:48	53902	HALI_T2	1	1	0	5.2	5.4	0.2	-1.35	-1.35	0	0	0	0	0	0
8/26/2024 21:48	65003	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 21:48	11104	EGYP_T1	0	0	0	0	0	0	0.6	0.53	0	0	0	0	0	0
8/26/2024 21:48	11102	EGYP_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/26/2024 21:48	45302	WBER_T2	0	0	0	0	0	0	1.32	1.3	0	0	0	0	0	0
8/26/2024 21:48	46302	ROHR_T1	4	4	0	0.28	1	0.72	0.2	0.2	0	0	0	0	0	0
8/26/2024 21:48	52002	LING_T2	0	0	0	0	0	0	0.56	0.46	0	0	0	0	0	0
8/26/2024 21:48	52004	LING_T2	2	2	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:48	14302	SUMN_T1	15	0	-15	1.01	0	-1.01	0	0	0	0	0	0	0	0
8/26/2024 21:48	14306	SUMN_T1	23	22	-1	1.61	1.02	-0.59	0	0	0	0	0	0	0	0
8/26/2024 21:48	13503	MCMI_T2	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
8/26/2024 21:48	54201	PENN_T1	54	68	14	0.39	0.39	0	-1.83	-1.87	0	0	0	0	0	0
8/26/2024 21:48	11103	EGYP_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
8/26/2024 21:48	53903	HALI_T2	2	2	0	0.65	1.1	0.45	0	0	0	0	0	0	0	0
8/26/2024 21:48	46301	ROHR_T1	1	1	0	5.4	5.8	0.4	0	0	0	0	0	0	0	0
8/26/2024 21:48	53901	HALI_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
8/26/2024 21:48	40502	CRES_T2	11	10	-1	0.25	0.25	0	-1.69	-1.73	0	0	0	0	0	0
8/26/2024 21:48	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:48	12701	MACU_T1	1	1	0	0.1	0.2	0.1	-0.93	-0.94	1	1	0	1200	1200	0
8/26/2024 21:48	59202	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 21:48	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-0.87	-0.86	1	1	0	600	600	0
8/26/2024 21:48	55101	WERT_T1	0	0	0	0	0	0	-2.56	-2.07	4	3	-1	3300	2700	-600
8/26/2024 21:48	11903	ETEX_T1	0	0	0	0	0	0	0.87	0.85	0	0	0	0	0	0
8/26/2024 21:48	42002	MNVL_T2	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:48	14308	SUMN_T1	3	0	-3	1.4	0	-1.4	0.4	0.38	0	0	0	0	0	0
8/26/2024 21:48	45901	AUBU_T1	0	0	0	0	0	0	1.51	1.51	0	0	0	0	0	0
8/26/2024 21:48	14602	SWHI_T1	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
8/26/2024 21:48	14303	SUMN_T1	3	3	0	6.7	6.57	-0.13	0	0	0	0	0	0	0	0
8/26/2024 21:48	42001	MNVL_T2	44	90	46	0.32	0.49	0.17	0.15	0.17	0	0	0	0	0	0
8/26/2024 21:48	54203	PENN_T1	18	18	0	0.89	0.97	0.08	0	0	0	0	0	0	0	0
8/26/2024 21:48	65001	NEFF_T2	0	0	0	0	0	0	-0.37	-0.44	1	1	0	1200	1200	0
8/26/2024 21:49	43105	SMIL_T2	3	4	1	0.13	0.13	0	0	0	0	0	0	0	0	0
8/26/2024 21:49	20401	ASHF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:49	44203	POIN_T2	0	0	0	0	0	0	-0.14	-0.25	2	2	0	2100	2100	0
8/26/2024 21:49	14403	SSLA_T1	0	0	0	0	0	0	-0.21	-0.25	0	0	0	0	0	0
8/26/2024 21:49	26402	INOR_T1	0	0	0	0	0	0	-1.78	-1.8	1	1	0	600	600	0
8/26/2024 21:49	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-0.87	-0.86	1	1	0	600	600	0
8/26/2024 21:49	44202	POIN_T2	1	1	0	4.7	4	-0.7	0	0	0	0	0	0	0	0
8/26/2024 21:49	23001	SAJO_T1	0	0	0	0	0	0	-0.19	-0.24	0	0	0	0	0	0
8/26/2024 21:49	10702	CATA_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
8/26/2024 21:49	48302	ORWI_T2	2	2	0	0.7	1.15	0.45	-0.42	-0.44	0	0	0	0	0	0
8/26/2024 21:49	40101	HUNT_T2	0	1	1	0	0	0	-2.42	-1.29	0	0	0	0	0	0
8/26/2024 21:49	26401	INOR_T1	1	1	0	5.4	6.6	1.2	0	0	0	0	0	0	0	0
8/26/2024 21:49	52004	LING_T2	2	2	0	5.4	5.5	0.1	0.04	0.01	0	0	0	0	0	0
8/26/2024 21:49	43103	SMIL_T2	1	1	0	0.1	0.2	0.1	-1.15	-1.12	0	0	0	0	0	0
8/26/2024 21:49	46206	DANV_T2	1	0	-1	0.1	0	-0.1	4.03	4.01	4	4	0	4200	4200	0
8/26/2024 21:49	14604	SWHI_T1	0	0	0	0	0	0	-0.79	-0.88	2	2	0	2100	2100	0
8/26/2024 21:49	25503	MADI_T1	13	31	18	0.18	0.15	-0.03	-0.74	-0.76	0	0	0	0	0	0
8/26/2024 21:49	46002	BERW_T2	0	0	0	0	0	0	-1.32	-1.33	1	1	0	900	900	0
8/26/2024 21:49	52204	DEVO_T2	1	3	2	0.4	0.67	0.27	0	0	0	0	0	0	0	0
8/26/2024 21:49	54203	PENN_T1	18	18	0	0.89	0.97	0.08	0	0	0	0	0	0	0	0
8/26/2024 21:49	44703	MUNC_T2	0	1	1	0	0.1	0.1	0.86	0.85	0	0	0	0	0	0
8/26/2024 21:49	20403	ASHF_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
8/26/2024 21:49	62101	ELAN_T1	1	1	0	1.7	2.2	0.5	0	0	0	0	0	0	0	0
8/26/2024 21:49	54201	PENN_T1	54	68	14	0.39	0.39	0	-1.83	-1.87	0	0	0	0	0	0
8/26/2024 21:49	14603	SWHI_T1	0	0	0	0	0	0	-1.12	-1.1	2	2	0	1200	1200	0
8/26/2024 21:49	40502	CRES_T2	11	10	-1	0.25	0.25	0	-0.84	-0.87	0	0	0	0	0	0
8/26/2024 21:49	40301	TAMA_T3	1	1	0	0	0	0	0.98	1.12	2	2	0	1800	1800	0
8/26/2024 21:49	40302	TAMA_T3	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/26/2024 21:49	27502	WEIS_T2	0	0	0	0	0	0	-0.36	-0.44	0	0	0	0	0	0
8/26/2024 21:49	44801	EDAN_T2	13	45	32	0.22	0.4	0.18	0	0	0	0	0	0	0	0
8/26/2024 21:49	46501	LOHA_T1	0	1	1	0	0	0	0.14	0.12	1	1	0	1200	1200	0
8/26/2024 21:49	15001	BLMO_T1	2	6	4	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
8/26/2024 21:49	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:49	46004	BERW_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 21:49	52502	PROG_T2	0	0	0	0	0	0	-0.1	-0.16	1	1	0	900	900	0
8/26/2024 21:49	45501	DERR_T2	0	2	2	0	0	0	0.7	0.54	4	4	0	3600	3600	0
8/26/2024 21:49	52002	LING_T2	0	0	0	0	0	0	0.56	0.46	0	0	0	0	0	0
8/26/2024 21:49	16302	ALPA_T2	0	0	0	0	0	0	1.06	1.04	0	0	0	0	0	0
8/26/2024 21:49	44802	EDAN_T2	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
8/26/2024 21:49	62102	ELAN_T1	0	0	0	0	0	0	1.5	1.38	0	0	0	0	0	0
8/26/2024 21:49	52202	DEVO_T2	0	1	1	0	0	0	-0.87	-0.91	0	0	0	0	0	0
8/26/2024 21:49	14601	SWHI_T1	0	0	0	0	0	0	-0.29	-0.33	0	0	0	0	0	0
8/26/2024 21:49	43102	SMIL_T2	4	6	2	0.25	0.37	0.12	0	0	0	0	0	0	0	0
8/26/2024 21:49	46203	DANV_T2	1	1	0	6.1	7.2	1.1	-0.29	-0.32	0	0	0	0	0	0
8/26/2024 21:49	46504	LOHA_T1	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
8/26/2024 21:49	10705	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:49	40201	BEGA_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/26/2024 21:49	15803	WGAT_T1	0	0	0	0	0	0	1.62	1.56	0	0	0	0	0	0
8/26/2024 21:50	57104	SPHI_T2	1	1	0	7.6	6.6	-1	-0.29	-0.37	0	0	0	0	0	0
8/26/2024 21:50	61102	BERK_T5	0	0	0	0	0	0	0.33	0.17	1	1	0	300	300	0
8/26/2024 21:50	66505	SMAN_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/26/2024 21:50	40602	PIGR_T1	1	1	0	0.4	0.5	0.1	-0.06	-0.12	0	0	0	0	0	0
8/26/2024 21:50	15202	SFAR_T1	0	0	0	0	0	0	-0.79	-0.75	1	1	0	1200	1200	0
8/26/2024 21:50	57106	SPHI_T2	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/26/2024 21:50	67106	SPRI_T2	0	0	0	0	0	0	-0.91	-0.89	1	1	0	900	900	0
8/26/2024 21:50	15001	BLMO_T1	2	6	4	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
8/26/2024 21:50	12701	MACU_T1	1	1	0	0.1	0.2	0.1	-0.93	-0.94	1	1	0	1200	1200	0
8/26/2024 21:50	42203	SHEN_T2	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
8/26/2024 21:50	27604	PIRI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:50	60101	COCA_T1	0	0	0	0	0	0	0.84	0.74	0	0	0	0	0	0
8/26/2024 21:50	52004	LING_T2	2	2	0	5.4	5.5	0.1	0.04	0.01	0	0	0	0	0	0
8/26/2024 21:50	49804	UNIV_T1	0	3	3	0	0.1	0.1	-0.22	-0.27	0	0	0	0	0	0
8/26/2024 21:50	23401	HONE_T2	0	0	0	0	0	0	-0.03	-0.07	0	0	0	0	0	0
8/26/2024 21:50	12807	MICK_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:50	57101	SPHI_T2	6	6	0	0.32	0.4	0.08	0	0	0	0	0	0	0	0
8/26/2024 21:50	47002	HUGH_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
8/26/2024 21:50	49803	UNIV_T1	1	1	0	5.2	4.7	-0.5	0	0	0	0	0	0	0	0
8/26/2024 21:50	44801	EDAN_T2	13	45	32	0.22	0.4	0.18	0	0	0	0	0	0	0	0
8/26/2024 21:50	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/26/2024 21:50	56504	ROCK_T2	0	0	0	0	0	0	-0.83	-0.88	0	0	0	0	0	0
8/26/2024 21:50	10805	CHHI_T2	1	1	0	9	8.7	-0.3	-0.43	-0.52	1	1	0	600	600	0
8/26/2024 21:50	10603	BLGL_T1	0	0	0	0	0	0	-0.23	-0.32	0	0	0	0	0	0
8/26/2024 21:50	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	0	-1	600	0	-600
8/26/2024 21:50	25603	ARRO_T1	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
8/26/2024 21:50	55002	NEWP_T1	3	3	0	0.53	0.47	-0.06	0	0	0	0	0	0	0	0
8/26/2024 21:50	42601	TUSC_T1	0	0	0	0	0	0	-0.12	-0.19	2	2	0	1800	1800	0
8/26/2024 21:50	44201	POIN_T1	49	98	49	0.14	0.22	0.08	-2.07	-2.11	2	2	0	2100	2100	0
8/26/2024 21:50	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-0.87	-0.86	1	1	0	600	600	0
8/26/2024 21:50	53501	EVIL_T2	0	3	3	0	0.45	0.45	-0.01	-0.01	1	1	0	600	600	0
8/26/2024 21:50	12801	MICK_T1	0	0	0	0	0	0	-0.7	-0.74	1	1	0	600	600	0
8/26/2024 21:50	56501	ROCK_T2	7	4	-3	0.49	0.58	0.09	-0.64	-0.71	0	0	0	0	0	0
8/26/2024 21:50	55001	NEWP_T1	0	0	0	0	0	0	-0.54	-0.55	1	1	0	600	600	0
8/26/2024 21:50	66504	SMAN_T2	0	0	0	0	0	0	-1.81	-1.95	2	2	0	2400	2400	0
8/26/2024 21:50	47001	HUGH_T2	3	3	0	7.07	7.7	0.63	-0.42	-0.46	0	0	0	0	0	0
8/26/2024 21:50	44802	EDAN_T2	0	0	0	0	0	0	-0.67	-0.73	0	0	0	0	0	0
8/26/2024 21:51	66703	STRA_T1	2	5	3	0.1	0.34	0.24	-0.67	-0.71	0	0	0	0	0	0
8/26/2024 21:51	13201	PALM_T1	0	3	3	0	0	0	-0.19	-1.51	1	0	-1	1200	0	-1200
8/26/2024 21:51	25801	SUTR_T2	2	2	0	9.25	9.55	0.3	0.28	0.26	0	0	0	0	0	0
8/26/2024 21:51	46004	BERW_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 21:51	43103	SMIL_T2	1	1	0	0.1	0.2	0.1	-0.56	-0.64	0	0	0	0	0	0
8/26/2024 21:51	43102	SMIL_T2	4	6	2	0.25	0.37	0.12	0	0	0	0	0	0	0	0
8/26/2024 21:51	14702	TREX_T2	0	0	0	0	0	0	1.38	1.31	0	0	0	0	0	0
8/26/2024 21:51	20403	ASHF_T2	0	0	0	0	0	0	0.54	0.46	0	0	0	0	0	0
8/26/2024 21:51	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	-0.86	-0.85	1	1	0	600	600	0
8/26/2024 21:51	67503	WEMI_T2	1	1	0	6.1	6.9	0.8	0.37	0.36	0	0	0	0	0	0
8/26/2024 21:51	15703	TANN_T2	1	1	0	5.3	5	-0.3	0	0	0	0	0	0	0	0
8/26/2024 21:51	47001	HUGH_T2	3	3	0	7.07	7.7	0.63	-0.46	-0.51	0	0	0	0	0	0
8/26/2024 21:51	20401	ASHF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:51	51906	COPA_T1	0	0	0	0	0	0	-1.48	-1.51	2	2	0	1500	1500	0
8/26/2024 21:51	46002	BERW_T2	0	0	0	0	0	0	-1.33	-1.41	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/26/2024 21:51	40101	HUNT_T2	0	1	1	0	0	0	-0.64	-0.68	0	0	0	0	0	0
8/26/2024 21:51	14801	TREI_T2	1	1	0	0.5	0.7	0.2	0.07	0.04	0	0	0	0	0	0
8/26/2024 21:51	64202	KINZ_T1	2	3	1	0.1	0.27	0.17	0	0	0	0	0	0	0	0
8/26/2024 21:51	64204	KINZ_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
8/26/2024 21:51	44703	MUNC_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:51	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:51	52502	PROG_T2	0	0	0	0	0	0	-0.1	-0.16	1	1	0	900	900	0
8/26/2024 21:51	48302	ORWI_T2	2	2	0	0.7	1.15	0.45	-0.44	-0.48	0	0	0	0	0	0
8/26/2024 21:51	40801	EXCH_T2	5	5	0	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
8/26/2024 21:51	55002	NEWP_T1	3	3	0	0.53	0.47	-0.06	0	0	0	0	0	0	0	0
8/26/2024 21:51	57401	SPAN_T1	2	2	0	0.6	0.7	0.1	-0.82	-1.17	1	1	0	600	600	0
8/26/2024 21:51	42204	SHEN_T2	0	0	0	0	0	0	-0.1	-0.12	1	1	0	1200	1200	0
8/26/2024 21:51	43105	SMIL_T2	3	4	1	0.13	0.13	0	0	0	0	0	0	0	0	0
8/26/2024 21:51	47002	HUGH_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
8/26/2024 21:51	56501	ROCK_T2	7	4	-3	0.49	0.58	0.09	0	0	0	0	0	0	0	0
8/26/2024 21:51	53502	EVIL_T2	0	0	0	0	0	0	0.25	0.3	1	1	0	600	600	0
8/26/2024 21:51	51904	COPA_T1	3	5	2	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
8/26/2024 21:51	52501	PROG_T1	0	0	0	0	0	0	0.25	0.32	1	1	0	300	300	0
8/26/2024 21:51	53501	EVIL_T2	0	3	3	0	0.45	0.45	-0.01	-0.01	1	1	0	600	600	0
8/26/2024 21:51	66505	SMAN_T2	2	0	-2	0.25	0	-0.25	0.01	0.01	3	3	0	2100	2100	0
8/26/2024 21:51	64201	KINZ_T1	0	0	0	0	0	0	-0.48	-0.54	3	3	0	1500	1500	0
8/26/2024 21:51	44201	POIN_T1	49	98	49	0.14	0.22	0.08	-2.11	-2.1	2	2	0	2100	2100	0
8/26/2024 21:51	51901	COPA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:51	47101	MARL_T1	0	2	2	0	0.1	0.1	-0.5	-0.5	0	0	0	0	0	0
8/26/2024 21:51	15702	TANN_T2	0	0	0	0	0	0	-0.5	-0.43	0	0	0	0	0	0
8/26/2024 21:51	54601	SUMM_T2	0	0	0	0	0	0	-1.39	-1.35	2	2	0	2100	2100	0
8/26/2024 21:51	40802	EXCH_T2	4	15	11	0.18	0.14	-0.04	-0.11	-0.13	0	0	0	0	0	0
8/26/2024 21:51	66901	SHIL_T2	0	0	0	0	0	0	-1.11	-1.14	1	1	0	1200	1200	0
8/26/2024 21:51	55001	NEWP_T1	0	0	0	0	0	0	-0.54	-0.55	1	1	0	600	600	0
8/26/2024 21:51	60502	NMAN_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
8/26/2024 21:51	10805	CHHI_T2	1	1	0	9	8.7	-0.3	-0.52	-0.46	1	1	0	600	600	0
8/26/2024 21:51	57403	SPAN_T1	26	29	3	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
8/26/2024 21:51	56504	ROCK_T2	0	0	0	0	0	0	-0.83	-0.88	0	0	0	0	0	0
8/26/2024 21:52	29402	BELT_T1	1	2	1	8.9	8.7	-0.2	0	0	0	0	0	0	0	0
8/26/2024 21:52	43105	SMIL_T2	3	4	1	0.13	0.13	0	0	0	0	0	0	0	0	0
8/26/2024 21:52	46206	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 21:52	41304	FISH_T2	1	1	0	0	0	0	-0.59	0.58	0	0	0	0	0	0
8/26/2024 21:52	60101	COCA_T1	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
8/26/2024 21:52	42903	MIDD_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
8/26/2024 21:52	56501	ROCK_T2	7	4	-3	0.49	0.58	0.09	0	0	0	0	0	0	0	0
8/26/2024 21:52	53903	HALI_T2	2	2	0	0.65	1.1	0.45	0	0	0	0	0	0	0	0
8/26/2024 21:52	13503	MCMI_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
8/26/2024 21:52	46004	BERW_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 21:52	43506	WWIL_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
8/26/2024 21:52	43108	SMIL_T2	0	0	0	0	0	0	0.31	0.27	0	0	0	0	0	0
8/26/2024 21:52	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:52	43103	SMIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:52	45501	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:52	53902	HALI_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
8/26/2024 21:52	43505	WWIL_T1	1	1	0	2.4	1.8	-0.6	0	0	0	0	0	0	0	0
8/26/2024 21:52	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:52	57401	SPAN_T1	2	2	0	0.6	0.7	0.1	-1.17	-0.56	1	1	0	600	600	0
8/26/2024 21:52	46002	BERW_T2	0	0	0	0	0	0	-1.33	-1.41	1	1	0	900	900	0
8/26/2024 21:52	22903	HARW_T1	2	3	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 21:52	22905	HARW_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:52	53901	HALI_T2	1	1	0	0.6	0.4	-0.2	-0.92	-0.96	0	0	0	0	0	0
8/26/2024 21:52	40201	BEGA_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/26/2024 21:52	15001	BLMO_T1	2	6	4	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
8/26/2024 21:52	15604	NSTR_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
8/26/2024 21:52	53601	DALM_T2	1	1	0	0.1	0.1	0	-0.03	-0.02	1	1	0	600	600	0
8/26/2024 21:52	62606	ENGL_T1	8	0	-8	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/26/2024 21:52	45502	DERR_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
8/26/2024 21:52	10805	CHHI_T2	1	1	0	9	8.7	-0.3	-0.52	-0.46	1	1	0	600	600	0
8/26/2024 21:52	67605	WARW_T1	1	3	2	0.5	0.55	0.05	0	0	0	0	0	0	0	0
8/26/2024 21:52	14605	SWHI_T1	0	0	0	0	0	0	1.64	1.63	1	1	0	1200	1200	0
8/26/2024 21:52	61703	ELIZ_T1	0	0	0	0	0	0	-2.69	-2.71	2	2	0	2100	2100	0
8/26/2024 21:52	47401	PENS_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
8/26/2024 21:52	63401	HONY_T1	0	0	0	0	0	0	-0.56	-0.53	1	1	0	600	600	0
8/26/2024 21:52	43302	WATS_T2	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
8/26/2024 21:52	47101	MARL_T1	0	2	2	0	0.1	0.1	-0.5	-0.5	0	0	0	0	0	0
8/26/2024 21:52	61701	ELIZ_T1	1	1	0	1.8	2	0.2	1.79	1.65	0	0	0	0	0	0
8/26/2024 21:52	43504	WWIL_T1	0	1	1	0	0.1	0.1	1.01	0.91	0	0	0	0	0	0
8/26/2024 21:52	43102	SMIL_T2	4	6	2	0.25	0.37	0.12	0	0	0	0	0	0	0	0
8/26/2024 21:52	48301	ORWI_T1	2	2	0	4.45	4.9	0.45	-0.26	-0.27	1	1	0	900	900	0
8/26/2024 21:52	46903	MNTG_T2	0	0	0	0	0	0	0.17	0.17	1	1	0	600	600	0
8/26/2024 21:52	62604	ENGL_T1	0	0	0	0	0	0	-0.37	-0.49	1	1	0	600	600	0
8/26/2024 21:52	46203	DANV_T2	1	1	0	6.1	7.2	1.1	-0.32	-0.4	0	0	0	0	0	0
8/26/2024 21:52	42902	MIDD_T2	0	0	0	0	0	0	-0.61	-0.76	1	1	0	600	600	0
8/26/2024 21:52	40502	CRES_T2	11	10	-1	0.25	0.25	0	-0.87	-0.91	0	0	0	0	0	0
8/26/2024 21:52	14603	SWHI_T1	0	0	0	0	0	0	-1.1	-0.47	2	1	-1	1200	600	-600
8/26/2024 21:52	22901	HARW_T1	0	0	0	0	0	0	-0.26	-0.34	1	1	0	1200	1200	0
8/26/2024 21:52	67603	WARW_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
8/26/2024 21:52	52502	PROG_T2	0	0	0	0	0	0	-0.16	-0.19	1	1	0	900	900	0
8/26/2024 21:52	14702	TREX_T2	0	0	0	0	0	0	1.38	1.31	0	0	0	0	0	0
8/26/2024 21:52	57403	SPAN_T1	26	29	3	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
8/26/2024 21:52	56504	ROCK_T2	0	0	0	0	0	0	-1.75	0.07	0	0	0	0	0	0
8/26/2024 21:52	43301	WATS_T2	0	1	1	0	0.1	0.1	-0.34	-0.37	1	1	0	900	900	0
8/26/2024 21:52	42201	SHEN_T2	0	0	0	0	0	0	0.28	0.3	1	1	0	600	600	0
8/26/2024 21:52	62607	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 21:53	67605	WARW_T1	1	3	2	0.5	0.55	0.05	-0.91	-0.96	0	0	0	0	0	0
8/26/2024 21:53	40101	HUNT_T2	0	1	1	0	0	0	-0.64	-0.68	0	0	0	0	0	0
8/26/2024 21:53	56504	ROCK_T2	0	0	0	0	0	0	-0.88	0.04	0	0	0	0	0	0
8/26/2024 21:53	57403	SPAN_T1	26	29	3	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
8/26/2024 21:53	53902	HALI_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
8/26/2024 21:53	40502	CRES_T2	11	10	-1	0.25	0.25	0	-0.87	-0.91	0	0	0	0	0	0
8/26/2024 21:53	42903	MIDD_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
8/26/2024 21:53	53903	HALI_T2	2	2	0	0.65	1.1	0.45	0	0	0	0	0	0	0	0
8/26/2024 21:53	42601	TUSC_T1	0	0	0	0	0	0	-0.19	-0.27	2	2	0	1800	1800	0
8/26/2024 21:53	42801	SELI_T1	0	0	0	0	0	0	-1.31	-1.31	1	1	0	1200	1200	0
8/26/2024 21:53	52404	GRPA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/26/2024 21:53	44902	SCOT_T2	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
8/26/2024 21:53	41304	FISH_T2	1	1	0	0	0	0	-0.59	0.58	0	0	0	0	0	0
8/26/2024 21:53	14601	SWHI_T1	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
8/26/2024 21:53	43202	MVIL_T2	4	2	-2	0.55	0	-0.55	-0.62	-0.63	0	0	0	0	0	0
8/26/2024 21:53	42902	MIDD_T2	0	0	0	0	0	0	-0.61	-0.76	1	1	0	600	600	0
8/26/2024 21:53	11804	FRAN_T1	9	10	1	0.44	0.4	-0.04	1.12	1.03	0	0	0	0	0	0
8/26/2024 21:53	62402	KIMB_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
8/26/2024 21:53	14801	TREI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
8/26/2024 21:53	14802	TREI_T2	0	0	0	0	0	0	0.77	0.68	0	0	0	0	0	0
8/26/2024 21:53	66903	SHIL_T2	0	0	0	0	0	0	-2.35	-2.45	0	0	0	0	0	0
8/26/2024 21:53	16102	BING_T2	13	15	2	0.25	0.4	0.15	0	0	0	0	0	0	0	0
8/26/2024 21:53	60502	NMAN_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
8/26/2024 21:53	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:53	52403	GRPA_T2	3	2	-1	0.43	0.7	0.27	-0.32	-0.34	0	0	0	0	0	0
8/26/2024 21:53	53501	EVIL_T2	0	3	3	0	0.45	0.45	-0.01	-0.01	1	1	0	600	600	0
8/26/2024 21:53	15001	BLMO_T1	2	6	4	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
8/26/2024 21:53	56501	ROCK_T2	7	4	-3	0.49	0.58	0.09	-1.43	-1.54	0	0	0	0	0	0
8/26/2024 21:53	45501	DERR_T2	0	2	2	0	0	0	0.54	0.34	4	4	0	3600	3600	0
8/26/2024 21:53	52401	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:53	13701	SCHN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:53	14603	SWHI_T1	0	0	0	0	0	0	-1.1	-0.47	2	1	-1	1200	600	-600
8/26/2024 21:53	52402	GRPA_T2	5	3	-2	0.5	0.57	0.07	0	0	0	0	0	0	0	0
8/26/2024 21:53	47101	MARL_T1	0	2	2	0	0.1	0.1	-0.5	-0.5	0	0	0	0	0	0
8/26/2024 21:53	48602	POCA_T1	0	0	0	0	0	0	0.82	0.78	0	0	0	0	0	0
8/26/2024 21:53	20401	ASHF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:53	53901	HALI_T2	1	1	0	0.6	0.4	-0.2	-0.92	-0.96	0	0	0	0	0	0
8/26/2024 21:53	44201	POIN_T1	49	98	49	0.14	0.22	0.08	-2.11	-2.1	2	2	0	2100	2100	0
8/26/2024 21:53	42802	SELI_T1	0	0	0	0	0	0	-1.25	-1.27	1	1	0	900	900	0
8/26/2024 21:53	47401	PENS_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
8/26/2024 21:53	20403	ASHF_T2	0	0	0	0	0	0	0.54	0.46	0	0	0	0	0	0
8/26/2024 21:53	16103	BING_T2	0	0	0	0	0	0	-1.42	-1.47	2	2	0	1500	1500	0
8/26/2024 21:53	66103	REAM_T2	0	0	0	0	0	0	0.78	0.83	1	1	0	1200	1200	0
8/26/2024 21:53	57401	SPAN_T1	2	2	0	0.6	0.7	0.1	-1.17	-0.56	1	1	0	600	600	0
8/26/2024 21:54	67106	SPRI_T2	0	0	0	0	0	0	-0.89	-1.59	1	2	1	900	1500	600
8/26/2024 21:54	45801	HEGI_T1	0	0	0	0	0	0	0.16	0.05	1	1	0	900	900	0
8/26/2024 21:54	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:54	51003	NHAR_T1	0	0	0	0	0	0	-1.54	-1.56	1	1	0	1200	1200	0
8/26/2024 21:54	51004	NHAR_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:54	42701	AUGU_T1	1	3	2	0.1	0.27	0.17	0	0	4	4	0	3600	3600	0
8/26/2024 21:54	53903	HALI_T2	2	2	0	0.65	1.1	0.45	0	0	0	0	0	0	0	0
8/26/2024 21:54	53902	HALI_T2	1	1	0	5.2	5.4	0.2	-1.35	-1.37	0	0	0	0	0	0
8/26/2024 21:54	10801	CHHI_T1	0	0	0	0	0	0	-1.51	-1.58	3	3	0	2100	2100	0
8/26/2024 21:54	27604	PIRI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:54	53901	HALI_T2	1	1	0	0.6	0.4	-0.2	-0.92	-0.96	0	0	0	0	0	0
8/26/2024 21:54	51002	NHAR_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:54	59301	MCAL_T1	2	2	0	0.8	1.05	0.25	-1.08	-1.15	0	0	0	0	0	0
8/26/2024 21:54	56501	ROCK_T2	7	4	-3	0.49	0.58	0.09	-0.71	-0.77	0	0	0	0	0	0
8/26/2024 21:54	63202	MGTN_T2	0	0	0	0	0	0	-0.02	-0.07	1	1	0	900	900	0
8/26/2024 21:54	43103	SMIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:54	43105	SMIL_T2	3	4	1	0.13	0.13	0	0	0	0	0	0	0	0	0
8/26/2024 21:54	55002	NEWP_T1	3	3	0	0.53	0.47	-0.06	0	0	0	0	0	0	0	0
8/26/2024 21:54	40201	BEGA_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/26/2024 21:54	44203	POIN_T2	0	0	0	0	0	0	-0.25	-0.21	2	2	0	2100	2100	0
8/26/2024 21:54	44801	EDAN_T2	13	45	32	0.22	0.4	0.18	-1.49	-1.46	0	0	0	0	0	0
8/26/2024 21:54	61701	ELIZ_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
8/26/2024 21:54	59302	MCAL_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
8/26/2024 21:54	64302	LINC_T2	0	0	0	0	0	0	0.28	0.24	0	0	0	0	0	0
8/26/2024 21:54	44202	POIN_T2	1	1	0	4.7	4	-0.7	0	0	0	0	0	0	0	0
8/26/2024 21:54	66505	SMAN_T2	2	0	-2	0.25	0	-0.25	0.01	0.01	3	3	0	2100	2100	0
8/26/2024 21:54	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.09	0	0	0	0	0	0
8/26/2024 21:54	16605	PONO_T1	0	0	0	0	0	0	-0.07	-0.08	1	1	0	1200	1200	0
8/26/2024 21:54	11405	FARM_T1	1	1	0	6.6	3.6	-3	-0.18	-0.24	1	1	0	1200	1200	0
8/26/2024 21:54	46506	LOHA_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/26/2024 21:54	66504	SMAN_T2	0	0	0	0	0	0	-0.97	-1.03	1	1	0	1200	1200	0
8/26/2024 21:54	43102	SMIL_T2	4	6	2	0.25	0.37	0.12	0	0	0	0	0	0	0	0
8/26/2024 21:54	61703	ELIZ_T1	0	0	0	0	0	0	-2.69	-2.71	2	2	0	2100	2100	0
8/26/2024 21:54	63305	GREE_T1	3	11	8	0.2	0.23	0.03	-1.8	-1.83	1	1	0	900	900	0
8/26/2024 21:54	12302	LANA_T2	0	0	0	0	0	0	-2.22	-2.29	3	3	0	2700	2700	0
8/26/2024 21:54	67503	WEWI_T2	1	1	0	6.1	6.9	0.8	0.37	0.36	0	0	0	0	0	0
8/26/2024 21:54	43104	SMIL_T2	0	0	0	0	0	0	0.49	-0.55	1	1	0	300	300	0
8/26/2024 21:54	63201	MGTN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:54	55001	NEWP_T1	0	0	0	0	0	0	-0.55	-0.55	1	1	0	600	600	0
8/26/2024 21:54	46504	LOHA_T1	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
8/26/2024 21:54	44201	POIN_T1	49	98	49	0.14	0.22	0.08	-2.11	-2.1	2	2	0	2100	2100	0
8/26/2024 21:55	22903	HARW_T1	2	3	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 21:55	65207	PRIN_T4	0	0	0	0	0	0	0	0	1	2	1	1200	1800	600
8/26/2024 21:55	49803	UNIV_T1	1	1	0	5.2	4.7	-0.5	-1.84	-1.96	0	0	0	0	0	0
8/26/2024 21:55	40602	PIGR_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:55	46801	HEPB_T2	2	2	0	1.35	1.2	-0.15	-0.06	-0.1	0	0	0	0	0	0
8/26/2024 21:55	16302	ALPA_T2	0	0	0	0	0	0	1.04	0.97	0	0	0	0	0	0
8/26/2024 21:55	46803	HEPB_T2	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
8/26/2024 21:55	13702	SCHN_T1	0	0	0	0	0	0	0.61	0.57	0	0	0	0	0	0
8/26/2024 21:55	13701	SCHN_T2	0	0	0	0	0	0	0.64	0.57	1	1	0	600	600	0
8/26/2024 21:55	49804	UNIV_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:55	55101	WERT_T1	0	0	0	0	0	0	-2.07	-2.11	3	3	0	2700	2700	0
8/26/2024 21:55	63401	HONY_T1	0	0	0	0	0	0	-0.56	-0.53	1	1	0	600	600	0
8/26/2024 21:55	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:55	59202	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 21:55	43202	MVIL_T2	4	2	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/26/2024 21:55	66903	SHIL_T2	0	0	0	0	0	0	-1.17	-1.22	0	0	0	0	0	0
8/26/2024 21:55	14605	SWHI_T1	0	0	0	0	0	0	1.64	1.63	1	1	0	1200	1200	0
8/26/2024 21:55	61301	EARL_T1	0	0	0	0	0	0	-0.99	-1.01	2	2	0	1800	1800	0
8/26/2024 21:55	40502	CRES_T2	11	10	-1	0.25	0.25	0	-1.73	-1.83	0	0	0	0	0	0
8/26/2024 21:55	58701	ROSE_T2	0	0	0	0	0	0	-0.97	-1.02	1	1	0	600	600	0
8/26/2024 21:55	45802	HEGI_T2	2	12	10	0.55	0.41	-0.14	1.97	1.89	0	0	0	0	0	0
8/26/2024 21:55	43201	MVIL_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
8/26/2024 21:55	67106	SPRI_T2	0	0	0	0	0	0	-0.89	-1.59	1	2	1	900	1500	600
8/26/2024 21:55	13704	SCHN_T2	0	0	0	0	0	0	0.09	-0.11	0	0	0	0	0	0
8/26/2024 21:55	48302	ORWI_T2	2	2	0	0.7	1.15	0.45	0	0	0	0	0	0	0	0
8/26/2024 21:55	21701	SUBU_T1	2	1	-1	3.25	6.3	3.05	0	0	0	0	0	0	0	0
8/26/2024 21:55	48301	ORWI_T1	2	2	0	4.45	4.9	0.45	-0.26	-0.27	1	1	0	900	900	0
8/26/2024 21:55	42503	ALTA_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
8/26/2024 21:55	58705	ROSE_T2	5	5	0	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
8/26/2024 21:55	53501	EVIL_T2	0	3	3	0	0.45	0.45	-0.02	-0.02	4	4	0	2400	2400	0
8/26/2024 21:55	57401	SPAN_T1	2	2	0	0.6	0.7	0.1	-1.17	-0.56	1	1	0	600	600	0
8/26/2024 21:55	54203	PENN_T1	18	18	0	0.89	0.97	0.08	0	0	0	0	0	0	0	0
8/26/2024 21:55	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:55	42802	SELI_T1	0	0	0	0	0	0	-1.25	-1.27	1	1	0	900	900	0
8/26/2024 21:55	14601	SWHI_T1	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
8/26/2024 21:55	41902	REED_T1	3	2	-1	0.87	0	-0.87	1.35	1.22	0	0	0	0	0	0
8/26/2024 21:55	52002	LING_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
8/26/2024 21:55	47401	PENS_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
8/26/2024 21:55	15204	SFAR_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
8/26/2024 21:55	20601	GRWO_T2	7	2	-5	0.24	0	-0.24	0	0	0	0	0	0	0	0
8/26/2024 21:55	47101	MARL_T1	0	2	2	0	0.1	0.1	-0.5	-0.5	0	0	0	0	0	0
8/26/2024 21:55	53502	EVIL_T2	0	0	0	0	0	0	0.3	0.18	1	1	0	600	600	0
8/26/2024 21:55	21705	SUBU_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
8/26/2024 21:55	57403	SPAN_T1	26	29	3	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
8/26/2024 21:55	20603	GRWO_T2	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
8/26/2024 21:55	45702	LIND_T2	2	2	0	0.25	0.4	0.15	-1.57	-1.57	0	0	0	0	0	0
8/26/2024 21:55	22905	HARW_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:55	52004	LING_T2	2	2	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:55	44201	POIN_T1	49	98	49	0.14	0.22	0.08	-2.11	-2.1	2	2	0	2100	2100	0
8/26/2024 21:55	54201	PENN_T1	54	68	14	0.39	0.39	0	-1.87	-1.91	0	0	0	0	0	0
8/26/2024 21:55	45501	DERR_T2	0	2	2	0	0	0	0.27	0.17	2	2	0	1800	1800	0
8/26/2024 21:55	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.09	0	0	0	0	0	0
8/26/2024 21:55	58706	ROSE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:55	66902	SHIL_T2	0	0	0	0	0	0	-1.32	-1.38	0	0	0	0	0	0
8/26/2024 21:55	53802	MBRG_T2	0	0	0	0	0	0	0.96	0.76	0	0	0	0	0	0
8/26/2024 21:55	50502	MECH_T1	1	1	0	2.4	2.5	0.1	-0.13	-0.13	0	0	0	0	0	0
8/26/2024 21:55	41901	REED_T1	9	8	-1	0.89	0.56	-0.33	0	0	0	0	0	0	0	0
8/26/2024 21:55	21704	SUBU_T1	0	0	0	0	0	0	-2.14	-2.19	2	2	0	2400	2400	0
8/26/2024 21:55	56501	ROCK_T2	7	4	-3	0.49	0.58	0.09	0	0	0	0	0	0	0	0
8/26/2024 21:55	56504	ROCK_T2	0	0	0	0	0	0	-0.88	0.04	0	0	0	0	0	0
8/26/2024 21:56	46206	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 21:56	63305	GREE_T1	3	11	8	0.2	0.23	0.03	0	0	0	0	0	0	0	0
8/26/2024 21:56	40801	EXCH_T2	5	5	0	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
8/26/2024 21:56	67502	WEWI_T2	0	0	0	0	0	0	-1.13	-1.19	1	1	0	900	900	0
8/26/2024 21:56	46203	DANV_T2	1	1	0	6.1	7.2	1.1	-0.32	-0.4	0	0	0	0	0	0
8/26/2024 21:56	60701	BREC_T1	0	0	0	0	0	0	-0.19	-0.22	1	1	0	600	600	0
8/26/2024 21:56	41304	FISH_T2	1	1	0	0	0	0	-0.59	0.58	0	0	0	0	0	0
8/26/2024 21:56	16002	DORN_T2	0	0	0	0	0	0	-0.15	-0.2	1	1	0	1200	1200	0
8/26/2024 21:56	20401	ASHF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:56	53902	HALI_T2	1	1	0	5.2	5.4	0.2	-0.68	-0.69	0	0	0	0	0	0
8/26/2024 21:56	52402	GRPA_T2	5	3	-2	0.5	0.57	0.07	0	0	0	0	0	0	0	0
8/26/2024 21:56	46504	LOHA_T1	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
8/26/2024 21:56	52404	GRPA_T2	1	1	0	0.2	0.2	0	0.03	-0.04	0	0	0	0	0	0
8/26/2024 21:56	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:56	20403	ASHF_T2	0	0	0	0	0	0	0.54	0.46	0	0	0	0	0	0
8/26/2024 21:56	54501	ENOL_T2	0	0	0	0	0	0	-0.14	-0.17	1	1	0	600	600	0
8/26/2024 21:56	45501	DERR_T2	0	2	2	0	0	0	0.27	0.17	2	2	0	1800	1800	0
8/26/2024 21:56	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:56	45702	LIND_T2	2	2	0	0.25	0.4	0.15	-1.57	-1.57	0	0	0	0	0	0
8/26/2024 21:56	44301	BEAV_T2	0	0	0	0	0	0	-0.39	-0.53	1	1	0	600	600	0
8/26/2024 21:56	14603	SWHI_T1	0	0	0	0	0	0	-1.1	-0.47	2	1	-1	1200	600	-600
8/26/2024 21:56	66901	SHIL_T2	0	0	0	0	0	0	-1.11	-1.14	1	1	0	1200	1200	0
8/26/2024 21:56	66505	SMAN_T2	2	0	-2	0.25	0	-0.25	0.01	0.01	3	3	0	2100	2100	0
8/26/2024 21:56	16006	DORN_T2	4	3	-1	0.43	0	-0.43	0	0	0	0	0	0	0	0
8/26/2024 21:56	67503	WEWI_T2	1	1	0	6.1	6.9	0.8	0	0	0	0	0	0	0	0
8/26/2024 21:56	46501	LOHA_T1	0	1	1	0	0	0	0.12	0.26	1	1	0	1200	1200	0
8/26/2024 21:56	40802	EXCH_T2	4	15	11	0.18	0.14	-0.04	-0.22	-0.26	0	0	0	0	0	0
8/26/2024 21:56	43202	MVIL_T2	4	2	-2	0.55	0	-0.55	-0.62	-0.63	0	0	0	0	0	0
8/26/2024 21:56	53903	HALI_T2	2	2	0	0.65	1.1	0.45	0	0	0	0	0	0	0	0
8/26/2024 21:56	53901	HALI_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
8/26/2024 21:56	63304	GREE_T1	0	0	0	0	0	0	-1.22	-1.29	0	0	0	0	0	0
8/26/2024 21:56	52403	GRPA_T2	3	2	-1	0.43	0.7	0.27	0	0	0	0	0	0	0	0
8/26/2024 21:56	52401	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:56	16201	POFA_T2	1	5	4	0.1	0.16	0.06	0	0	0	0	0	0	0	0
8/26/2024 21:56	60101	COCA_T1	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
8/26/2024 21:56	63401	HONY_T1	0	0	0	0	0	0	-0.56	-0.53	1	1	0	600	600	0
8/26/2024 21:56	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/26/2024 21:57	42903	MIDD_T2	0	2	2	0	0.35	0.35	-1.16	-1.39	1	1	0	1200	1200	0
8/26/2024 21:57	59301	MCAL_T1	2	2	0	0.8	1.05	0.25	-1.08	-1.15	0	0	0	0	0	0
8/26/2024 21:57	52401	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:57	11102	EGYP_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/26/2024 21:57	52403	GRPA_T2	3	2	-1	0.43	0.7	0.27	0	0	0	0	0	0	0	0
8/26/2024 21:57	64602	LEOL_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
8/26/2024 21:57	52404	GRPA_T2	1	1	0	0.2	0.2	0	0.03	-0.04	0	0	0	0	0	0
8/26/2024 21:57	53802	MBRG_T2	0	0	0	0	0	0	0.96	0.76	0	0	0	0	0	0
8/26/2024 21:57	67605	WARW_T1	1	3	2	0.5	0.55	0.05	-0.91	-0.96	0	0	0	0	0	0
8/26/2024 21:57	64802	MONE_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
8/26/2024 21:57	59302	MCAL_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
8/26/2024 21:57	41902	REED_T1	3	2	-1	0.87	0	-0.87	1.35	1.22	0	0	0	0	0	0
8/26/2024 21:57	67505	WEWI_T1	0	0	0	0	0	0	0.44	0.43	1	1	0	900	900	0
8/26/2024 21:57	66002	RHEE_T2	0	0	0	0	0	0	-2.82	-2.85	1	1	0	1200	1200	0
8/26/2024 21:57	65604	QVIL_T2	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
8/26/2024 21:57	64902	MILL_T2	0	0	0	0	0	0	-0.15	-0.22	1	1	0	900	900	0
8/26/2024 21:57	66903	SHIL_T2	0	0	0	0	0	0	-1.17	-1.22	0	0	0	0	0	0
8/26/2024 21:57	14601	SWHI_T1	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
8/26/2024 21:57	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:57	12701	MACU_T1	1	1	0	0.1	0.2	0.1	-0.94	0.27	1	0	-1	1200	0	-1200
8/26/2024 21:57	56501	ROCK_T2	7	4	-3	0.49	0.58	0.09	-0.71	-0.77	0	0	0	0	0	0
8/26/2024 21:57	43103	SMIL_T2	1	1	0	0.1	0.2	0.1	-0.56	-0.64	0	0	0	0	0	0
8/26/2024 21:57	66901	SHIL_T2	0	0	0	0	0	0	-1.11	-1.14	1	1	0	1200	1200	0
8/26/2024 21:57	43102	SMIL_T2	4	6	2	0.25	0.37	0.12	0	0	0	0	0	0	0	0
8/26/2024 21:57	11104	EGYP_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
8/26/2024 21:57	40502	CRES_T2	11	10	-1	0.25	0.25	0	0	0	0	0	0	0	0	0
8/26/2024 21:57	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:57	41901	REED_T1	9	8	-1	0.89	0.56	-0.33	0	0	0	0	0	0	0	0
8/26/2024 21:57	56504	ROCK_T2	0	0	0	0	0	0	-0.88	0.04	0	0	0	0	0	0
8/26/2024 21:57	43105	SMIL_T2	3	4	1	0.13	0.13	0	0	0	0	0	0	0	0	0
8/26/2024 21:57	46902	MNTG_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	600	600	0
8/26/2024 21:57	54701	NEBL_T1	4	3	-1	0.45	0.4	-0.05	0	0	1	1	0	600	600	0
8/26/2024 21:57	10801	OHHI_T1	0	0	0	0	0	0	-1.51	-1.58	3	3	0	2100	2100	0
8/26/2024 21:57	60502	NMAN_T2	0	0	0	0	0	0	0.49	0.44	0	0	0	0	0	0
8/26/2024 21:57	45702	LIND_T2	2	2	0	0.25	0.4	0.15	-1.57	-1.57	0	0	0	0	0	0
8/26/2024 21:57	10702	CATA_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
8/26/2024 21:57	67904	WNHO_T1	0	0	0	0	0	0	-1.9	-1.89	2	2	0	2100	2100	0
8/26/2024 21:57	64101	REFR_T1	0	1	1	0	0	0	0.57	0.54	0	0	0	0	0	0
8/26/2024 21:57	43202	MVIL_T2	4	2	-2	0.55	0	-0.55	-0.62	-0.63	0	0	0	0	0	0
8/26/2024 21:57	10705	CATA_T2	0	1	1	0	0	0	-1.62	-1.63	1	1	0	900	900	0
8/26/2024 21:57	52402	GRPA_T2	5	3	-2	0.5	0.57	0.07	0	0	0	0	0	0	0	0
8/26/2024 21:57	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:57	47101	MARL_T1	0	2	2	0	0.1	0.1	-0.5	-0.5	0	0	0	0	0	0
8/26/2024 21:57	54601	SUMM_T2	0	0	0	0	0	0	-1.35	-1.44	2	2	0	2100	2100	0
8/26/2024 21:57	66902	SHIL_T2	0	0	0	0	0	0	-1.32	-1.38	0	0	0	0	0	0
8/26/2024 21:57	44202	POIN_T2	1	1	0	4.7	4	-0.7	-0.47	-0.53	1	1	0	1200	1200	0
8/26/2024 21:57	67602	WARW_T2	0	0	0	0	0	0	0.95	0.98	2	2	0	600	600	0
8/26/2024 21:58	57401	SPAN_T1	2	2	0	0.6	0.7	0.1	-1.17	-0.56	1	1	0	600	600	0
8/26/2024 21:58	60701	BREC_T1	0	0	0	0	0	0	-0.19	-0.22	1	1	0	600	600	0
8/26/2024 21:58	23001	SAUG_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
8/26/2024 21:58	66903	SHIL_T2	0	0	0	0	0	0	-2.35	-2.45	0	0	0	0	0	0
8/26/2024 21:58	42902	MIDD_T2	0	0	0	0	0	0	-0.61	-0.76	1	1	0	600	600	0
8/26/2024 21:58	61701	ELIZ_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
8/26/2024 21:58	65502	MOJO_T2	35	42	7	0.11	0.11	0	0	0	0	0	0	0	0	0
8/26/2024 21:58	65503	MOJO_T2	4	2	-2	0.13	0.15	0.02	-0.78	0.11	1	0	-1	900	0	-900

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/26/2024 21:58	67002	STHI_T2	0	0	0	0	0	0	-0.84	-0.88	1	1	0	600	600	0
8/26/2024 21:58	15204	SFAR_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
8/26/2024 21:58	44201	POIN_T1	49	98	49	0.14	0.22	0.08	-2.11	-2.1	2	2	0	2100	2100	0
8/26/2024 21:58	47101	MARL_T1	0	2	2	0	0.1	0.1	-1.5	-1.51	0	0	0	0	0	0
8/26/2024 21:58	62607	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 21:58	46001	BERW_T1	0	0	0	0	0	0	-1.39	-1.44	0	0	0	0	0	0
8/26/2024 21:58	54206	PENN_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
8/26/2024 21:58	40902	JESH_T1	0	0	0	0	0	0	-0.33	-0.38	0	0	0	0	0	0
8/26/2024 21:58	59101	WALK_T2	0	0	0	0	0	0	2.05	1.91	6	6	0	3600	3600	0
8/26/2024 21:58	66703	STRA_T1	2	5	3	0.1	0.34	0.24	-0.67	-0.71	0	0	0	0	0	0
8/26/2024 21:58	55405	SHER_T1	11	0	0	0.92	1.23	0.31	-0.17	-0.17	0	0	0	0	0	0
8/26/2024 21:58	44203	POIN_T2	0	0	0	0	0	0	-0.25	-0.21	2	2	0	2100	2100	0
8/26/2024 21:58	42201	SHEN_T2	0	0	0	0	0	0	0.28	0.3	1	1	0	600	600	0
8/26/2024 21:58	47502	NECO_T1	1	1	0	0.9	0.9	0	1.06	0.93	0	0	0	0	0	0
8/26/2024 21:58	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:58	67605	WARW_T1	1	3	2	0.5	0.55	0.05	-1.83	-1.91	0	0	0	0	0	0
8/26/2024 21:58	53501	EVIL_T2	0	3	3	0	0.45	0.45	-0.01	-0.01	1	1	0	600	600	0
8/26/2024 21:58	14403	SSLA_T1	0	0	0	0	0	0	-0.25	-0.36	0	0	0	0	0	0
8/26/2024 21:58	45501	DERR_T2	0	2	2	0	0	0	0.27	0.17	2	2	0	1800	1800	0
8/26/2024 21:58	60101	COCA_T1	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
8/26/2024 21:58	44202	POIN_T2	1	1	0	4.7	4	-0.7	0	0	0	0	0	0	0	0
8/26/2024 21:58	62604	ENGL_T1	0	0	0	0	0	0	-0.37	-0.49	1	1	0	600	600	0
8/26/2024 21:58	45302	WBER_T2	0	0	0	0	0	0	1.3	1.25	0	0	0	0	0	0
8/26/2024 21:58	42903	MIDD_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
8/26/2024 21:58	65207	PRIN_T4	0	0	0	0	0	0	0	0	1	2	1	1200	1800	600
8/26/2024 21:58	53802	MBRG_T2	0	0	0	0	0	0	0.96	0.76	0	0	0	0	0	0
8/26/2024 21:58	57403	SPAN_T1	26	29	3	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
8/26/2024 21:58	52501	PROG_T1	0	0	0	0	0	0	0.32	0.14	1	1	0	300	300	0
8/26/2024 21:58	64101	REFR_T1	0	1	1	0	0	0	0.57	0.54	0	0	0	0	0	0
8/26/2024 21:58	61703	ELIZ_T1	0	0	0	0	0	0	-2.69	-2.71	2	2	0	2100	2100	0
8/26/2024 21:58	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:58	40901	JESH_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 21:58	46004	BERW_T2	1	0	-1	0.2	0	-0.2	0.36	0.27	0	0	0	0	0	0
8/26/2024 21:58	62606	ENGL_T1	8	0	-8	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/26/2024 21:58	53502	EVIL_T2	0	0	0	0	0	0	0.3	0.18	1	1	0	600	600	0
8/26/2024 21:58	14601	SWHI_T1	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
8/26/2024 21:58	56501	ROCK_T2	7	4	-3	0.49	0.58	0.09	-1.43	-1.54	0	0	0	0	0	0
8/26/2024 21:58	44301	BEAV_T2	0	0	0	0	0	0	-0.39	-0.53	1	1	0	600	600	0
8/26/2024 21:58	40502	CRES_T2	11	10	-1	0.25	0.25	0	-0.87	-0.91	0	0	0	0	0	0
8/26/2024 21:58	58401	MORO_T1	0	0	0	0	0	0	-1.66	-1.67	1	1	0	600	600	0
8/26/2024 21:59	65203	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:59	21501	CEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:59	20401	ASHF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:59	20403	ASHF_T2	0	0	0	0	0	0	0.54	0.46	0	0	0	0	0	0
8/26/2024 21:59	41902	REED_T1	3	2	-1	0.87	0	-0.87	1.35	1.22	0	0	0	0	0	0
8/26/2024 21:59	66502	SMAN_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
8/26/2024 21:59	64204	KINZ_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
8/26/2024 21:59	55002	NEWP_T1	3	3	0	0.53	0.47	-0.06	0	0	0	0	0	0	0	0
8/26/2024 21:59	40502	CRES_T2	11	10	-1	0.25	0.25	0	-0.87	-0.91	0	0	0	0	0	0
8/26/2024 21:59	65205	PRIN_T1	1	1	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
8/26/2024 21:59	55101	WERT_T1	0	0	0	0	0	0	-2.07	-2.11	3	3	0	2700	2700	0
8/26/2024 21:59	62607	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 21:59	43104	SMIL_T2	0	0	0	0	0	0	-0.49	-0.55	1	1	0	300	300	0
8/26/2024 21:59	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:59	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:59	60701	BREC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:59	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:59	64201	KINZ_T1	0	0	0	0	0	0	-0.48	-0.54	3	3	0	1500	1500	0
8/26/2024 21:59	41901	REED_T1	9	8	-1	0.89	0.56	-0.33	0	0	0	0	0	0	0	0
8/26/2024 21:59	12701	MACU_T1	1	1	0	0.1	0.2	0.1	-0.94	0.27	1	0	-1	1200	0	-1200
8/26/2024 21:59	62604	ENGL_T1	0	0	0	0	0	0	-0.37	-0.49	1	1	0	600	600	0
8/26/2024 21:59	67203	TEHI_T1	0	0	0	0	0	0	2.55	2.46	2	2	0	1500	1500	0
8/26/2024 21:59	62606	ENGL_T1	8	0	-8	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/26/2024 21:59	42902	MIDD_T2	0	0	0	0	0	0	-1.23	-1.52	2	2	0	1200	1200	0
8/26/2024 21:59	46301	ROHR_T1	1	1	0	5.4	5.8	0.4	0	0	0	0	0	0	0	0
8/26/2024 21:59	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 21:59	42903	MIDD_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
8/26/2024 21:59	53501	EVIL_T2	0	3	3	0	0.45	0.45	-0.01	-0.01	1	1	0	600	600	0
8/26/2024 21:59	46506	LOHA_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
8/26/2024 21:59	51204	MTON_T2	0	0	0	0	0	0	-0.2	-0.21	1	1	0	600	600	0
8/26/2024 21:59	46504	LOHA_T1	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
8/26/2024 21:59	61703	ELIZ_T1	0	0	0	0	0	0	-2.69	-2.71	2	2	0	2100	2100	0
8/26/2024 21:59	64202	KINZ_T1	2	3	1	0.1	0.27	0.17	0	0	0	0	0	0	0	0
8/26/2024 21:59	42802	SELI_T1	0	0	0	0	0	0	-2.49	-2.54	2	2	0	1800	1800	0
8/26/2024 21:59	60801	BUCK_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
8/26/2024 21:59	55001	NEWP_T1	0	0	0	0	0	0	-0.55	-0.55	1	1	0	600	600	0
8/26/2024 21:59	64101	REFR_T1	0	1	1	0	0	0	0.28	0.27	0	0	0	0	0	0
8/26/2024 21:59	44801	EDAN_T2	13	45	32	0.22	0.4	0.18	-2.99	-2.92	0	0	0	0	0	0
8/26/2024 21:59	60101	COCA_T1	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
8/26/2024 21:59	52204	DEVO_T2	1	3	2	0.4	0.67	0.27	0	0	0	0	0	0	0	0
8/26/2024 21:59	66505	SMAN_T2	2	0	-2	0.25	0	-0.25	0.01	0.01	3	3	0	2100	2100	0
8/26/2024 21:59	46302	ROHR_T1	4	4	0	0.28	1	0.72	0.2	0.19	0	0	0	0	0	0
8/26/2024 21:59	46801	HEPB_T2	2	2	0	1.35	1.2	-0.15	-0.06	-0.1	0	0	0	0	0	0
8/26/2024 21:59	61303	EARL_T1	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
8/26/2024 21:59	61501	EPET_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
8/26/2024 21:59	66703	STRA_T1	2	5	3	0.1	0.34	0.24	-0.67	-0.71	0	0	0	0	0	0
8/26/2024 21:59	63804	HEMP_T1	1	1	0	6	5.5	-0.5	-1.5	-1.55	0	0	0	0	0	0
8/26/2024 21:59	46203	DANV_T2	1	1	0	6.1	7.2	1.1	-0.32	-0.4	0	0	0	0	0	0
8/26/2024 21:59	14403	SSLA_T1	0	0	0	0	0	0	-0.25	-0.36	0	0	0	0	0	0
8/26/2024 21:59	52002	LING_T2	0	0	0	0	0	0	0.93	0.92	0	0	0	0	0	0
8/26/2024 21:59	52202	DEVO_T2	0	1	1	0	0	0	-0.91	-0.93	0	0	0	0	0	0
8/26/2024 21:59	52004	LING_T2	2	2	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:59	60803	BUCK_T1	2	12	10	0.1	0.22	0.12	0	0	0	0	0	0	0	0
8/26/2024 21:59	46206	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 21:59	61701	ELIZ_T1	1	1	0	1.8	2	0.2	1.79	1.65	0	0	0	0	0	0
8/26/2024 21:59	43102	SMIL_T2	4	6	2	0.25	0.37	0.12	0	0	0	0	0	0	0	0
8/26/2024 21:59	13702	SCHN_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
8/26/2024 21:59	43103	SMIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/26/2024 21:59	40101	HUNT_T2	0	1	1	0	0	0	-0.64	-0.68	0	0	0	0	0	0
8/26/2024 21:59	44202	POIN_T2	1	1	0	4.7	4	-0.7	-0.47	-0.53	1	1	0	1200	1200	0
8/26/2024 21:59	44201	POIN_T1	49	98	49	0.14	0.22	0.08	-2.11	-2.1	2	2	0	2100	2100	0
8/26/2024 21:59	67605	WARW_T1	1	3	2	0.5	0.55	0.05	-0.91	-0.96	0	0	0	0	0	0
8/26/2024 21:59	59202	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 21:59	45501	DERR_T2	0	2	2	0	0	0	0.27	0.17	2	2	0	1800	1800	0
8/26/2024 21:59	43105	SMIL_T2	3	4	1	0.13	0.13	0	0	0	0	0	0	0	0	0
8/26/2024 22:00	53501	EVIL_T2	1	3	2	0.2	0.75	0.55	-0.01	-0.01	2	2	0	1200	1200	0
8/26/2024 22:00	52101	MEIS_T1	2	2	0	1.15	1.55	0.4	0	0	0	0	0	0	0	0
8/26/2024 22:00	40101	HUNT_T2	0	1	1	0	0	0	-0.64	-0.68	0	0	0	0	0	0
8/26/2024 22:00	44801	EDAN_T2	32	56	24	0.27	0.36	0.09	0	0	0	0	0	0	0	0
8/26/2024 22:00	42902	MIDD_T2	0	0	0	0	0	0	-0.61	-0.76	1	1	0	600	600	0
8/26/2024 22:00	66903	SHIL_T2	0	0	0	0	0	0	-1.17	-1.22	0	0	0	0	0	0
8/26/2024 22:00	57304	MOAL_T2	0	0	0	0	0	0	0.27	0.2	0	0	0	0	0	0
8/26/2024 22:00	42903	MIDD_T2	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
8/26/2024 22:00	46506	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 22:00	42802	SELI_T1	0	1	1	0	0.1	0.1	-1.25	-1.27	1	1	0	900	900	0
8/26/2024 22:00	15001	BLMO_T1	3	6	3	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/26/2024 22:00	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 22:00	47101	MARL_T1	1	1	0	0.1	0	-0.1	-0.5	-0.5	0	0	0	0	0	0
8/26/2024 22:00	56504	ROCK_T2	0	0	0	0	0	0	-0.88	0.04	0	0	0	0	0	0
8/26/2024 22:00	41902	REED_T1	0	3	3	0	0.5	0.5	1.35	1.22	0	0	0	0	0	0
8/26/2024 22:00	41901	REED_T1	8	0	-8	0.56	0	-0.56	0	0	0	0	0	0	0	0
8/26/2024 22:00	64801	MONE_T2	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
8/26/2024 22:00	45501	DERR_T2	0	2	2	0	0.65	0.65	0.27	0.17	2	2	0	1800	1800	0
8/26/2024 22:00	46504	LOHA_T1	2	7	5	0.75	0.44	-0.31	0	0	0	0	0	0	0	0
8/26/2024 22:00	52002	LING_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
8/26/2024 22:00	46203	DANV_T2	2	1	-1	8.05	7.3	-0.75	0	0	0	0	0	0	0	0
8/26/2024 22:00	40502	CRES_T2	10	11	1	0.25	0.21	-0.04	-2.6	-2.74	0	0	0	0	0	0
8/26/2024 22:00	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 22:00	67602	WARW_T2	0	0	0	0	0	0	0.47	0.49	1	1	0	300	300	0
8/26/2024 22:00	47401	PENS_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
8/26/2024 22:00	56501	ROCK_T2	4	2	-2	0.58	0.7	0.12	0	0	0	0	0	0	0	0
8/26/2024 22:00	44905	SCOT_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 22:00	53502	EVIL_T2	0	0	0	0	0	0	0.3	0.18	1	1	0	600	600	0
8/26/2024 22:00	55101	WERT_T1	0	0	0	0	0	0	-2.07	-2.11	3	3	0	2700	2700	0
8/26/2024 22:00	65205	PRIN_T1	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
8/26/2024 22:00	44202	POIN_T2	1	1	0	4	4.7	0.7	-0.47	-0.53	1	1	0	1200	1200	0
8/26/2024 22:00	61102	BERK_T5	0	0	0	0	0	0	0.17	0.05	1	1	0	300	300	0
8/26/2024 22:00	57401	SPAN_T1	2	1	-1	0.7	0	-0.7	-1.17	-0.56	1	1	0	600	600	0
8/26/2024 22:00	42201	SHEN_T2	0	0	0	0	0	0	0.28	0.3	1	1	0	600	600	0
8/26/2024 22:00	57403	SPAN_T1	29	0	-29	0.31	0	-0.31	0	0	0	0	0	0	0	0
8/26/2024 22:00	44802	EDAN_T2	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
8/26/2024 22:00	60101	COCA_T1	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
8/26/2024 22:00	57303	MOAL_T2	1	1	0	7.4	7.6	0.2	0	0	0	0	0	0	0	0
8/26/2024 22:00	58401	MORO_T1	0	0	0	0	0	0	-1.66	-1.67	1	1	0	600	600	0
8/26/2024 22:00	67605	WARW_T1	3	2	-1	0.55	0.55	0	-0.91	-0.96	0	0	0	0	0	0
8/26/2024 22:00	63602	LETO_T1	0	44	44	0	0.17	0.17	-0.54	-0.59	1	1	0	600	600	0
8/26/2024 22:00	52004	LING_T2	2	2	0	5.4	5.75	0.35	0	0	0	0	0	0	0	0
8/26/2024 22:00	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 22:00	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
8/26/2024 22:00	44201	POIN_T1	84	115	31	0.23	0.23	0	-2.11	-2.1	2	2	0	2100	2100	0
8/26/2024 22:00	46206	DANV_T2	0	0	0	0	0	0	2	2	2	2	0	2100	2100	0
8/26/2024 22:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 22:00	64101	REFR_T1	0	1	1	0	0	0	0.57	0.54	0	0	0	0	0	0
8/26/2024 22:00	46503	LOHA_T1	0	14	14	0	0.14	0.14	-0.57	-0.58	0	0	0	0	0	0
8/26/2024 22:01	62101	ELAN_T1	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
8/26/2024 22:01	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 22:01	64101	REFR_T1	0	1	1	0	0	0	0.28	0.27	0	0	0	0	0	0
8/26/2024 22:01	60101	COCA_T1	0	0	0	0	0	0	1.49	1.49	0	0	0	0	0	0
8/26/2024 22:01	63804	HEMP_T1	1	1	0	5.8	5.3	-0.5	-1.5	-1.55	0	0	0	0	0	0
8/26/2024 22:01	43103	SMIL_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/26/2024 22:01	43105	SMIL_T2	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
8/26/2024 22:01	44202	POIN_T2	1	1	0	4	4.7	0.7	-0.47	-0.53	1	1	0	1200	1200	0
8/26/2024 22:01	46503	LOHA_T1	0	14	14	0	0.14	0.14	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/26/2024 22:01	46504	LOHA_T1	2	7	5	0.75	0.44	-0.31	0	0	0	0	0	0	0	0
8/26/2024 22:01	67502	WEWI_T2	0	0	0	0	0	0	-1.13	-1.19	1	1	0	900	900	0
8/26/2024 22:01	47401	PENS_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
8/26/2024 22:01	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 22:01	62604	ENGL_T1	0	0	0	0	0	0	-0.73	-0.98	2	2	0	1200	1200	0
8/26/2024 22:01	61304	EARL_T1	0	0	0	0	0	0	-0.4	-0.48	1	1	0	600	600	0
8/26/2024 22:01	41002	LAUR_T2	53	72	19	0.64	1.57	0.93	0.2	0.18	0	0	0	0	0	0
8/26/2024 22:01	61701	ELIZ_T1	1	1	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
8/26/2024 22:01	55101	WERT_T1	0	0	0	0	0	0	-6.21	-6.33	9	9	0	8100	8100	0
8/26/2024 22:01	43108	SMIL_T2	0	0	0	0	0	0	0.61	0.54	0	0	0	0	0	0
8/26/2024 22:01	43102	SMIL_T2	6	0	-6	0.37	0	-0.37	0	0	0	0	0	0	0	0
8/26/2024 22:01	53601	DALM_T2	1	1	0	0.1	0.4	0.3	-0.03	-0.02	1	1	0	600	600	0
8/26/2024 22:01	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 22:01	52202	DEVO_T2	0	0	0	0	0	0	-1.83	-1.86	0	0	0	0	0	0
8/26/2024 22:01	40201	BEGA_T2	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 22:01	43104	SMIL_T2	0	0	0	0	0	0	-0.49	-0.55	1	1	0	300	300	0
8/26/2024 22:01	62102	ELAN_T1	0	0	0	0	0	0	1.38	1.25	0	0	0	0	0	0
8/26/2024 22:01	46506	LOHA_T1	0	1	1	0	0.2	0.2	0.18	0.17	0	0	0	0	0	0
8/26/2024 22:01	41001	LAUR_T2	83	103	20	0.78	1.71	0.93	0	0	0	0	0	0	0	0
8/26/2024 22:01	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 22:01	52204	DEVO_T2	3	3	0	0.97	0.5	-0.47	0	0	0	0	0	0	0	0
8/26/2024 22:01	61501	EPET_T2	1	1	0	5.8	4.9	-0.9	0	0	0	0	0	0	0	0
8/26/2024 22:01	66703	STRA_T1	4	67	63	0.27	0.16	-0.11	-1.34	-1.41	0	0	0	0	0	0
8/26/2024 22:01	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 22:01	61102	BERK_T5	0	0	0	0	0	0	0.17	0.05	1	1	0	300	300	0
8/26/2024 22:01	66903	SHIL_T2	0	0	0	0	0	0	-1.17	-1.22	0	0	0	0	0	0
8/26/2024 22:01	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 22:01	67503	WEWI_T2	1	1	0	6.4	7.3	0.9	0	0	0	0	0	0	0	0
8/26/2024 22:01	46901	MNTG_T2	0	0	0	0	0	0	0.04	0.38	1	1	0	1200	1200	0
8/26/2024 22:02	42802	SELI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 22:02	61701	ELIZ_T1	1	1	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
8/26/2024 22:02	61703	ELIZ_T1	0	0	0	0	0	0	-2.69	-2.71	2	2	0	2100	2100	0
8/26/2024 22:02	61102	BERK_T5	0	0	0	0	0	0	0.17	0.05	1	1	0	300	300	0
8/26/2024 22:02	67602	WARW_T2	0	0	0	0	0	0	0.47	0.49	1	1	0	300	300	0
8/26/2024 22:02	55101	WERT_T1	0	0	0	0	0	0	-4.14	-4.22	6	6	0	5400	5400	0
8/26/2024 22:02	64802	MONE_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
8/26/2024 22:02	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 22:02	52403	GRPA_T2	2	2	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
8/26/2024 22:02	52401	GRPA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/26/2024 22:02	42201	SHEN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 22:02	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/26/2024 22:02	47101	MARL_T1	1	1	0	0.1	0	-0.1	-0.5	-0.5	0	0	0	0	0	0
8/26/2024 22:02	64101	REFR_T1	0	1	1	0	0	0	0.28	0.27	0	0	0	0	0	0
8/26/2024 22:02	57401	SPAN_T1	2	1	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/26/2024 22:02	40201	BEGA_T2	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/26/2024 22:02	40502	CRES_T2	10	11	1	0.25	0.21	-0.04	-1.73	-1.83	0	0	0	0	0	0
8/26/2024 22:02	52402	GRPA_T2	3	3	0	0.57	0.5	-0.07	-0.41	-0.45	0	0	0	0	0	0
8/26/2024 22:02	65205	PRIN_T1	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
8/26/2024 22:02	57403	SPAN_T1	29	0	-29	0.31	0	-0.31	0.32	0.31	0	0	0	0	0	0
8/26/2024 22:03	57004	WHHI_T2	0	0	0	0	0	0	-0.22	-0.28	0	0	0	0	0	0
8/26/2024 22:03	40101	HUNT_T2	0	1	1	0	0	0	-0.64	-0.68	0	0	0	0	0	0
8/26/2024 22:03	65901	SAKR_T2	1	1	0	7.7	8.8	1.1	0	0	0	0	0	0	0	0
8/26/2024 22:03	62102	ELAN_T1	0	0	0	0	0	0	2.76	2.51	0	0	0	0	0	0
8/26/2024 22:03	61702	ELIZ_T2	0	0	0	0	0	0	-1.56	-1.59	2	2	0	1500	1500	0
8/26/2024 22:03	58401	MORO_T1	0	0	0	0	0	0	-6.63	-6.69	4	4	0	2400	2400	0
8/26/2024 22:03	47101	MARL_T1	1	1	0	0.1	0	-0.1	-0.5	-0.5	0	0	0	0	0	0
8/26/2024 22:03	44801	EDAN_T2	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
8/26/2024 22:03	67605	WARW_T1	3	2	-1	0.55	0.55	0	-0.91	-0.96	0	0	0	0	0	0
8/26/2024 22:03	49804	UNIV_T1	0	3	3	0	0.1	0.1	-0.27	-0.31	0	0	0	0	0	0
8/26/2024 22:03	61102	BERK_T5	0	0	0	0	0	0	0.35	0.09	2	2	0	600	600	0
8/26/2024 22:03	49803	UNIV_T1	1	1	0	5.1	4.7	-0.4	0	0	0	0	0	0	0	0
8/26/2024 22:03	43103	SMIL_T2	1	2	1	0.2	0	-0.2	-0.56	-0.64	0	0	0	0	0	0
8/26/2024 22:03	43105	SMIL_T2	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
8/26/2024 22:03	57403	SPAN_T1	29	0	-29	0.31	0	-0.31	0	0	0	0	0	0	0	0
8/26/2024 22:03	42802	SELI_T1	0	1	1	0	0.1	0.1	-1.25	-1.27	1	1	0	900	900	0
8/26/2024 22:03	62101	ELAN_T1	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
8/26/2024 22:03	66505	SMAN_T2	0	0	0	0	0	0	0.01	0.01	3	3	0	2100	2100	0
8/26/2024 22:03	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 22:03	58402	MORO_T1	0	0	0	0	0	0	-0.32	-0.24	3	3	0	1950	1950	0
8/26/2024 22:03	57006	WHHI_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/26/2024 22:03	43102	SMIL_T2	6	0	-6	0.37	0	-0.37	0	0	0	0	0	0	0	0
8/26/2024 22:03	59101	WALK_T2	0	0	0	0	0	0	0.68	0.64	2	2	0	1200	1200	0
8/26/2024 22:03	65904	SAKR_T2	0	0	0	0	0	0	-1.9	-1.65	3	3	0	1500	1500	0
8/26/2024 22:03	44801	EDAN_T2	32	56	24	0.27	0.36	0.09	0	0	0	0	0	0	0	0
8/26/2024 22:03	67201	TEHI_T1	0	0	0	0	0	0	-0.3	-0.37	1	1	0	900	900	0
8/26/2024 22:03	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 22:03	64305	LINC_T1	0	0	0	0	0	0	-0.18	-0.28	0	0	0	0	0	0
8/26/2024 22:03	64101	REFR_T1	0	1	1	0	0	0	0.57	0.54	0	0	0	0	0	0
8/26/2024 22:04	57401	SPAN_T1	2	1	-1	0.7	0	-0.7	-1.17	-0.56	1	1	0	600	600	0
8/26/2024 22:04	53501	EVIL_T2	1	3	2	0.2	0.75	0.55	-0.01	-0.01	1	1	0	600	600	0
8/26/2024 22:04	64101	REFR_T1	0	1	1	0	0	0	0.28	0.27	0	0	0	0	0	0
8/26/2024 22:04	44201	POIN_T1	84	115	31	0.23	0.23	0	-2.11	-2.1	2	2	0	2100	2100	0
8/26/2024 22:04	63305	GREE_T1	11	15	4	0.23	0.29	0.06	0	0	0	0	0	0	0	0
8/26/2024 22:04	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.09	0	0	0	0	0	0
8/26/2024 22:04	63304	GREE_T1	0	1	1	0	0.1	0.1	-1.22	-1.29	0	0	0	0	0	0
8/26/2024 22:04	63302	GREE_T1	0	0	0	0	0	0	0.71	0.67	0	0	0	0	0	0
8/26/2024 22:04	59302	MCAL_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
8/26/2024 22:04	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 22:04	59301	MCAL_T1	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
8/26/2024 22:04	54206	PENN_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
8/26/2024 22:05	44301	BEAV_T2	0	0	0	0	0	0	-0.39	-0.53	1	1	0	600	600	0
8/26/2024 22:05	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 22:05	46503	LOHA_T1	0	14	14	0	0.14	0.14	-0.57	-0.58	0	0	0	0	0	0
8/26/2024 22:05	67602	WARW_T2	0	0	0	0	0	0	0.47	0.49	1	1	0	300	300	0
8/26/2024 22:05	67804	WLAN_T1	2	2	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/26/2024 22:05	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 22:05	64204	KINZ_T1	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
8/26/2024 22:05	67803	WLAN_T1	0	0	0	0	0	0	-1.07	-1.1	0	0	0	0	0	0
8/26/2024 22:05	64203	KINZ_T1	0	0	0	0	0	0	-0.46	0.13	2	1	-1	900	600	-300
8/26/2024 22:05	64202	KINZ_T1	2	3	1	0.25	0.33	0.08	0	0	0	0	0	0	0	0
8/26/2024 22:05	46504	LOHA_T1	2	7	5	0.75	0.44	-0.31	0	0	0	0	0	0	0	0
8/26/2024 22:05	67805	WLAN_T1	0	25	25	0	0.1	0.1	0	0	0	0	0	0	0	0
8/26/2024 22:05	46506	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/26/2024 22:06	58401	MORO_T1	0	0	0	0	0	0	-1.66	-1.67	1	1	0	600	600	0
8/26/2024 22:06	52402	GRPA_T2	3	3	0	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
8/26/2024 22:06	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/26/2024 22:06	52401	GRPA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/26/2024 22:06	52403	GRPA_T2	2	2	0	0.7	0.65	-0.05	-0.32	-0.34	0	0	0	0	0	0
8/26/2024 22:07	63602	LETO_T1	0	44	44	0	0.17	0.17	-1.17	-1.39	2	2	0	1200	1200	0
8/26/2024 22:07	59101	WALK_T2	0	0	0	0	0	0	0.64	0.62	2	2	0	1200	1200	0
8/26/2024 22:07	64902	MILL_T2	0	0	0	0	0	0	-0.22	-0.26	1	1	0	900	900	0
8/26/2024 22:07	61102	BERK_T5	0	0	0	0	0	0	0.05	0.02	1	1	0	300	300	0
8/26/2024 22:08	64902	MILL_T2	0	0	0	0	0	0	-0.22	-0.26	1	1	0	900	900	0
8/26/2024 22:08	67503	WEWI_T2	1	1	0	6.4	7.3	0.9	0.36	0.34	0	0	0	0	0	0
8/26/2024 22:10	64902	MILL_T2	0	0	0	0	0	0	-0.22	-0.26	1	1	0	900	900	0
8/26/2024 22:17	51306	WIND_T2	0	0	0	0	0	0	0.42	0.35	0	0	0	0	0	0
8/26/2024 22:20	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2024 22:20	67106	SPRI_T2	0	0	0	0	0	0	-1.59	-1.61	2	2	0	1500	1500	0
8/26/2024 22:48	10801	OHHI_T1	0	0	0	0	0	0	-1.03	-1.07	2	2	0	1500	1500	0
8/26/2024 23:35	57401	SPAN_T1	2	0	-2	0.55	0	-0.55	-0.51	-0.56	1	1	0	600	600	0
8/26/2024 23:35	57403	SPAN_T1	120	9	-111	0.3	0.14	-0.16	0	0	0	0	0	0	0	0
8/26/2024 23:39	24102	EHAZ_T1	1	1	0	1.5	1.2	-0.3	0.49	0.46	0	0	0	0	0	0
8/26/2024 23:39	24105	EHAZ_T1	4	4	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
8/27/2024 1:27	47403	PENS_T1	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
8/27/2024 1:27	47402	PENS_T1	0	4	4	0	0.5	0.5	0	0	0	0	0	0	0	0
8/27/2024 1:27	47401	PENS_T1	0	1	1	0	0.5	0.5	1.22	1.18	0	0	0	0	0	0
8/27/2024 7:08	29402	BELT_T1	1	1	0	7.7	8	0.3	0	0	0	0	0	0	0	0
8/27/2024 7:08	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/27/2024 7:20	15204	SPAR_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
8/27/2024 7:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 7:22	61801	EELI_T2	0	0	0	0	0	0	-0.61	-0.57	1	1	0	600	600	0
8/27/2024 7:26	11903	ETEX_T1	0	0	0	0	0	0	0.43	0.58	0	0	0	0	0	0
8/27/2024 7:28	45502	DERR_T2	2	3	1	0.45	0.7	0.25	0.35	0.34	0	0	0	0	0	0
8/27/2024 7:28	63501	HEID_TBK1-2	56	56	0	1.58	1.65	0.07	0.26	0.22	1	1	0	900	900	0
8/27/2024 7:29	40504	CRES_T1	0	0	0	0	0	0	-0.51	-0.3	0	0	0	0	0	0
8/27/2024 7:30	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 7:34	64903	MILL_T2	0	0	0	0	0	0	0.2	0.29	0	0	0	0	0	0
8/27/2024 7:38	24201	PROV_T3	1	1	0	6.4	6	-0.4	-1.26	-1.23	1	1	0	1200	1200	0
8/27/2024 7:38	24204	PROV_T3	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
8/27/2024 7:39	45602	WOOL_T1	0	0	0	0	0	0	0.66	0.69	0	0	0	0	0	0
8/27/2024 7:40	14801	TREI_T2	0	1	1	0	0.7	0.7	0.41	0.46	0	0	0	0	0	0
8/27/2024 7:42	21501	CEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/27/2024 7:47	21206	ECAR_T2	1	7	6	7.2	1.88	-5.32	0.19	0.24	0	0	0	0	0	0
8/27/2024 7:47	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 7:49	25402	LAHA_T2	0	0	0	0	0	0	-0.82	-0.79	0	0	0	0	0	0
8/27/2024 7:50	13303	ORVI_T1	0	0	0	0	0	0	-0.04	0.03	0	0	0	0	0	0
8/27/2024 7:50	13301	ORVI_T1	0	0	0	0	0	0	-0.53	-0.48	0	0	0	0	0	0
8/27/2024 7:51	13303	ORVI_T1	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
8/27/2024 7:51	60502	NMAN_T2	1	0	-1	0.3	0	-0.3	-0.13	-0.09	0	0	0	0	0	0
8/27/2024 7:55	16004	DORN_T1	0	0	0	0	0	0	-0.61	-0.63	1	1	0	1200	1200	0
8/27/2024 7:56	53601	DALM_T2	1	1	0	0.1	0.2	0.1	-0.15	-0.08	2	2	0	1500	1500	0
8/27/2024 7:58	40802	EXCH_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/27/2024 7:58	40801	EXCH_T2	0	0	0	0	0	0	-0.35	-0.32	1	1	0	1200	1200	0
8/27/2024 7:59	20601	GRWO_T2	1	8	7	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
8/27/2024 7:59	20603	GRWO_T2	0	0	0	0	0	0	-0.57	-0.6	1	1	0	900	900	0
8/27/2024 8:00	16004	DORN_T1	0	1	1	0	0	0	-0.61	-0.63	1	1	0	1200	1200	0
8/27/2024 8:01	50103	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/27/2024 8:01	50107	HARR_T3	1	1	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
8/27/2024 8:01	50201	HARR_T3	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
8/27/2024 8:01	50105	HARR_T3	6	6	0	7.03	6.92	-0.11	0	0	0	0	0	0	0	0
8/27/2024 8:06	41902	REED_T1	0	0	0	0	0	0	0.98	0.99	0	0	0	0	0	0
8/27/2024 8:08	67503	WEWI_T2	1	1	0	8.2	8.2	0	0.12	0.08	0	0	0	0	0	0
8/27/2024 8:10	67604	WARW_T1	0	0	0	0	0	0	0.08	0.15	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/27/2024 8:10	67605	WARW_T1	1	11	10	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
8/27/2024 8:12	45502	DERR_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
8/27/2024 8:12	51604	DUKE_T2	0	0	0	0	0	0	-0.85	-0.82	0	0	0	0	0	0
8/27/2024 8:12	45501	DERR_T2	0	0	0	0	0	0	0.85	0.84	2	2	0	1800	1800	0
8/27/2024 8:12	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 8:13	44802	EDAN_T2	0	2	2	0	0.1	0.1	-3.8	-1.06	0	0	0	0	0	0
8/27/2024 8:13	44801	EDAN_T2	119	249	130	0.48	0.49	0.01	-2.96	-3.08	0	0	0	0	0	0
8/27/2024 8:13	51604	DUKE_T2	0	0	0	0	0	0	-0.85	-0.82	0	0	0	0	0	0
8/27/2024 8:13	22002	BOHE_T1	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
8/27/2024 8:14	44802	EDAN_T2	0	2	2	0	0.1	0.1	-3.8	-1.06	0	0	0	0	0	0
8/27/2024 8:14	40101	HUNT_T2	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
8/27/2024 8:14	44801	EDAN_T2	119	249	130	0.48	0.49	0.01	0	0	0	0	0	0	0	0
8/27/2024 8:15	44802	EDAN_T2	2	0	-2	0.1	0	-0.1	-1.9	-0.53	0	0	0	0	0	0
8/27/2024 8:15	44801	EDAN_T2	249	56	-193	0.49	0.51	0.02	0	0	0	0	0	0	0	0
8/27/2024 8:17	55508	HERS_T2	2	2	0	1.2	1.1	-0.1	-4.91	-4.91	2	2	0	2400	2400	0
8/27/2024 8:18	43301	WATS_T2	1	1	0	0.1	0.4	0.3	-0.54	-0.52	1	1	0	900	900	0
8/27/2024 8:19	24201	PROV_T3	1	1	0	6.6	6.6	0	-1.26	-1.17	1	1	0	1200	1200	0
8/27/2024 8:19	24204	PROV_T3	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
8/27/2024 8:20	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/27/2024 8:20	15203	SFAR_T2	0	0	0	0	0	0	-1.03	-1.04	0	0	0	0	0	0
8/27/2024 8:21	14801	TREI_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/27/2024 8:21	14802	TREI_T2	0	0	0	0	0	0	0.57	0.69	0	0	0	0	0	0
8/27/2024 8:23	50201	HARR_T3	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/27/2024 8:23	59101	WALK_T2	1	1	0	0.3	0.5	0.2	2.43	2.46	0	0	0	0	0	0
8/27/2024 8:23	50107	HARR_T3	1	1	0	6.6	7	0.4	0	0	0	0	0	0	0	0
8/27/2024 8:23	50105	HARR_T3	6	6	0	6.93	7.03	0.1	0	0	0	0	0	0	0	0
8/27/2024 8:24	59101	WALK_T2	1	1	0	0.3	0.5	0.2	2.43	2.46	0	0	0	0	0	0
8/27/2024 8:25	46002	BERW_T2	0	0	0	0	0	0	-0.95	-1.03	1	1	0	900	900	0
8/27/2024 8:25	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 8:27	53501	EVIL_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	2	2	0	1200	1200	0
8/27/2024 8:28	53501	EVIL_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	2	2	0	1200	1200	0
8/27/2024 8:29	45502	DERR_T2	2	2	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
8/27/2024 8:29	45501	DERR_T2	0	0	0	0	0	0	0.84	0.67	2	2	0	1800	1800	0
8/27/2024 8:32	15601	NSTR_T2	3	3	0	0.3	0.37	0.07	0	0	0	0	0	0	0	0
8/27/2024 8:32	15603	NSTR_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
8/27/2024 8:34	50107	HARR_T3	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
8/27/2024 8:34	50105	HARR_T3	6	6	0	7.05	7.15	0.1	0	0	0	0	0	0	0	0
8/27/2024 8:34	50201	HARR_T3	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 8:34	50103	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/27/2024 8:34	60502	NMAN_T2	0	0	0	0	0	0	-0.05	-0.02	0	0	0	0	0	0
8/27/2024 8:35	15701	TANN_T1	1	1	0	4	4.3	0.3	0	0	0	0	0	0	0	0
8/27/2024 8:35	15704	TANN_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
8/27/2024 8:37	15703	TANN_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
8/27/2024 8:37	15702	TANN_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
8/27/2024 8:39	59101	WALK_T2	1	2	1	0.5	1.6	1.1	2.46	2.46	0	0	0	0	0	0
8/27/2024 8:39	44301	BEAV_T2	1	0	-1	1.3	0	-1.3	-1.56	-0.52	4	4	0	3000	3000	0
8/27/2024 8:40	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 8:40	44301	BEAV_T2	1	0	-1	1.3	0	-1.3	-0.78	-0.26	2	2	0	1500	1500	0
8/27/2024 8:42	45502	DERR_T2	2	1	-1	0.45	0.1	-0.35	0.37	0.36	0	0	0	0	0	0
8/27/2024 8:43	44301	BEAV_T2	1	0	-1	1.3	0	-1.3	-0.78	-0.26	2	2	0	1500	1500	0
8/27/2024 8:44	53501	EVIL_T2	0	2	2	0	0.75	0.75	-0.01	-0.01	4	4	0	2400	2400	0
8/27/2024 8:44	44301	BEAV_T2	1	0	-1	1.3	0	-1.3	-0.78	-0.26	2	2	0	1500	1500	0
8/27/2024 8:45	53501	EVIL_T2	1	2	1	0.2	1	0.8	-0.01	-0.01	2	2	0	1200	1200	0
8/27/2024 8:46	53501	EVIL_T2	1	2	1	0.2	1	0.8	-0.01	-0.01	4	4	0	2400	2400	0
8/27/2024 8:47	40601	PIGR_T1	17	17	0	0.16	0.19	0.03	0	0	0	0	0	0	0	0
8/27/2024 8:47	40602	PIGR_T1	1	1	0	0.5	0.5	0	-0.33	-0.27	1	1	0	600	600	0
8/27/2024 8:47	40603	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 8:48	66302	MCGO_T2	0	0	0	0	0	0	-1.29	-1.33	1	1	0	600	600	0
8/27/2024 8:49	63403	HONY_T2	0	0	0	0	0	0	-0.52	-0.46	1	1	0	600	600	0
8/27/2024 8:49	63402	HONY_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 8:53	56501	ROCK_T2	2	3	1	0.6	0.7	0.1	-1.08	-1.04	0	0	0	0	0	0
8/27/2024 8:54	56501	ROCK_T2	2	3	1	0.6	0.7	0.1	-1.08	-1.04	0	0	0	0	0	0
8/27/2024 8:57	46402	FLEM_T2	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
8/27/2024 8:57	46401	FLEM_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
8/27/2024 8:58	11507	FREE_T2	0	0	0	0	0	0	0.86	0.69	0	0	0	0	0	0
8/27/2024 8:59	46401	FLEM_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
8/27/2024 8:59	46402	FLEM_T2	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
8/27/2024 9:00	50201	HARR_T3	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 9:00	50103	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/27/2024 9:00	50107	HARR_T3	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
8/27/2024 9:00	50105	HARR_T3	6	6	0	7.22	7.18	-0.04	0	0	0	0	0	0	0	0
8/27/2024 9:02	46203	DANV_T2	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
8/27/2024 9:02	46206	DANV_T2	7	9	2	0.86	0.88	0.02	6.22	6.07	2	2	0	2400	2400	0
8/27/2024 9:06	67203	TEHI_T1	7	9	2	0.49	0	-0.49	2.51	2.98	3	3	0	2100	2100	0
8/27/2024 9:07	57403	SPAN_T1	151	128	-23	0.35	0.32	-0.03	0.13	0.13	0	0	0	0	0	0
8/27/2024 9:07	57401	SPAN_T1	3	3	0	1.13	0.77	-0.36	0	0	0	0	0	0	0	0
8/27/2024 9:08	41902	REED_T1	0	0	0	0	0	0	1.08	1.11	0	0	0	0	0	0
8/27/2024 9:09	20401	ASHF_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/27/2024 9:09	20403	ASHF_T2	0	0	0	0	0	0	1.66	1.7	0	0	0	0	0	0
8/27/2024 9:11	45902	AUBU_T1	0	0	0	0	0	0	-0.26	-0.41	1	1	0	600	600	0
8/27/2024 9:11	20401	ASHF_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/27/2024 9:11	20403	ASHF_T2	0	0	0	0	0	0	1.66	1.7	0	0	0	0	0	0
8/27/2024 9:14	46206	DANV_T2	7	9	2	0.86	0.88	0.02	3.03	3.05	1	1	0	1200	1200	0
8/27/2024 9:14	46203	DANV_T2	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
8/27/2024 9:15	55508	HERS_T2	2	2	0	1.65	1.5	-0.15	0	0	0	0	0	0	0	0
8/27/2024 9:15	40101	HUNT_T2	0	3	3	0	0.7	0.7	-0.63	-0.48	0	0	0	0	0	0
8/27/2024 9:19	41902	REED_T1	0	0	0	0	0	0	1.08	1.11	0	0	0	0	0	0
8/27/2024 9:20	44203	POIN_T2	0	1	1	0	0.6	0.6	0.13	0.58	2	2	0	2100	2100	0
8/27/2024 9:22	20403	ASHF_T2	0	0	0	0	0	0	1.7	1.74	0	0	0	0	0	0
8/27/2024 9:22	20401	ASHF_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/27/2024 9:23	42201	SHEN_T2	0	0	0	0	0	0	0.85	0.86	0	0	0	0	0	0
8/27/2024 9:25	67605	WARW_T1	1	1	0	0.4	0.1	-0.3	-0.79	-0.77	0	0	0	0	0	0
8/27/2024 9:27	67605	WARW_T1	1	1	0	0.4	0.1	-0.3	-0.79	-0.77	0	0	0	0	0	0
8/27/2024 9:27	20403	ASHF_T2	0	0	0	0	0	0	1.7	1.74	0	0	0	0	0	0
8/27/2024 9:27	20401	ASHF_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/27/2024 9:28	45802	HEGI_T2	14	41	27	0.34	0.7	0.36	0.65	0.13	1	1	0	900	900	0
8/27/2024 9:28	53502	EVIL_T2	0	0	0	0	0	0	-0.28	-0.21	3	3	0	2100	2100	0
8/27/2024 9:28	53501	EVIL_T2	2	1	-1	0.85	1	0.15	0	0	0	0	0	0	0	0
8/27/2024 9:29	40101	HUNT_T2	0	3	3	0	0.7	0.7	-0.48	-0.34	0	0	0	0	0	0
8/27/2024 9:33	25402	LAHA_T2	0	0	0	0	0	0	-0.54	-0.48	0	0	0	0	0	0
8/27/2024 9:33	45802	HEGI_T2	11	41	30	0.22	0.7	0.48	0.65	0.13	1	1	0	900	900	0
8/27/2024 9:35	41401	REFR_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
8/27/2024 9:35	55405	SHER_T1	11	11	0	1.11	0.85	-0.26	-0.17	-0.17	0	0	0	0	0	0
8/27/2024 9:36	64101	REFR_T1	0	0	0	0	0	0	0.1	0.15	0	0	0	0	0	0
8/27/2024 9:36	60502	NMAN_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
8/27/2024 9:36	57401	SPAN_T1	3	4	1	0.77	2.78	2.01	-0.26	-0.22	1	1	0	600	600	0
8/27/2024 9:36	57403	SPAN_T1	57	28	-29	0.29	0.36	0.07	0	0	0	0	0	0	0	0
8/27/2024 9:37	64101	REFR_T1	0	0	0	0	0	0	0.3	0.46	0	0	0	0	0	0
8/27/2024 9:38	57403	SPAN_T1	57	28	-29	0.29	0.36	0.07	0	0	0	0	0	0	0	0
8/27/2024 9:38	57401	SPAN_T1	3	4	1	0.77	2.78	2.01	-0.22	-0.25	1	1	0	600	600	0
8/27/2024 9:39	64101	REFR_T1	0	0	0	0	0	0	0.3	0.46	0	0	0	0	0	0
8/27/2024 9:40	57403	SPAN_T1	57	28	-29	0.29	0.36	0.07	0	0	0	0	0	0	0	0
8/27/2024 9:40	64101	REFR_T1	0	0	0	0	0	0	0.1	0.15	0	0	0	0	0	0
8/27/2024 9:40	57401	SPAN_T1	3	4	1	0.77	2.78	2.01	-0.22	-0.25	1	1	0	600	600	0
8/27/2024 9:41	57401	SPAN_T1	3	4	1	0.77	2.78	2.01	-0.22	-0.25	1	1	0	600	600	0
8/27/2024 9:41	57403	SPAN_T1	57	28	-29	0.29	0.36	0.07	0	0	0	0	0	0	0	0
8/27/2024 9:42	67605	WARW_T1	1	0	-1	0.1	0	-0.1	-0.77	-0.84	0	0	0	0	0	0
8/27/2024 9:44	48302	ORWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 9:47	16402	MOPO_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
8/27/2024 9:48	63804	HEMP_T1	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
8/27/2024 9:48	63801	HEMP_T1	0	0	0	0	0	0	-0.57	-0.67	1	1	0	900	900	0
8/27/2024 9:48	16402	MOPO_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
8/27/2024 9:49	57403	SPAN_T1	26	25	-1	0.35	0.38	0.03	0	0	0	0	0	0	0	0
8/27/2024 9:49	57401	SPAN_T1	4	4	0	2.95	2.97	0.02	-0.22	-0.25	1	1	0	600	600	0
8/27/2024 9:55	45902	AUBU_T1	0	0	0	0	0	0	-0.27	-0.28	1	1	0	600	600	0
8/27/2024 9:55	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 9:55	40201	BEGA_T2	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
8/27/2024 9:55	29402	BELT_T1	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
8/27/2024 9:56	64602	LEOL_T1	0	0	0	0	0	0	0.34	0.37	0	0	0	0	0	0
8/27/2024 10:00	46203	DANV_T2	1	1	0	6.1	5.7	-0.4	0.03	0.02	0	0	0	0	0	0
8/27/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.62	0.68	0	0	0	0	0	0
8/27/2024 10:00	45702	LIND_T2	6	4	-2	0.42	0.55	0.13	-1.55	-1.5	0	0	0	0	0	0
8/27/2024 10:00	14802	TREI_T2	0	0	0	0	0	0	0.79	0.81	0	0	0	0	0	0
8/27/2024 10:00	62102	ELAN_T1	0	0	0	0	0	0	0.9	0.96	0	0	0	0	0	0
8/27/2024 10:00	15001	BLMO_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/27/2024 10:00	62101	ELAN_T1	1	1	0	0.3	1.4	1.1	0	0	0	0	0	0	0	0
8/27/2024 10:00	51304	WIND_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/27/2024 10:00	46206	DANV_T2	1	3	2	2.1	1.05	-1.05	0	0	0	0	0	0	0	0
8/27/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	-1.01	-0.87	0	0	0	0	0	0
8/27/2024 10:00	41902	REED_T1	0	0	0	0	0	0	1.1	1.12	0	0	0	0	0	0
8/27/2024 10:00	20601	GRMO_T2	2	84	82	0.5	0.27	-0.23	2.86	2.9	0	0	0	0	0	0
8/27/2024 10:00	51306	WIND_T2	0	0	0	0	0	0	0.35	0.42	0	0	0	0	0	0
8/27/2024 10:00	59002	MIFF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 10:00	14801	TREI_T2	3	2	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/27/2024 10:00	52403	GRSA_T2	2	3	1	0.15	0.33	0.18	0.3	0.27	0	0	0	0	0	0
8/27/2024 10:00	42601	TUSC_T1	0	0	0	0	0	0	0.23	0.36	3	3	0	2400	2400	0
8/27/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
8/27/2024 10:03	16201	POFA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 10:03	16203	POFA_T2	47	48	1	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
8/27/2024 10:05	45702	LIND_T2	6	4	-2	0.42	0.55	0.13	0	0	0	0	0	0	0	0
8/27/2024 10:05	16203	POFA_T2	47	48	1	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
8/27/2024 10:05	45701	LIND_T2	0	0	0	0	0	0	-1.42	-1.44	0	0	0	0	0	0
8/27/2024 10:05	16201	POFA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 10:06	64602	LEOL_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
8/27/2024 10:07	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 10:07	44203	POIN_T2	0	0	0	0	0	0	0.35	0.53	2	2	0	2100	2100	0
8/27/2024 10:07	60502	NMAN_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
8/27/2024 10:08	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 10:08	67503	WEWI_T2	1	1	0	7.5	7.2	-0.3	0.47	0.48	0	0	0	0	0	0
8/27/2024 10:08	41902	REED_T1	0	0	0	0	0	0	1.12	1.18	0	0	0	0	0	0
8/27/2024 10:08	66502	SMAN_T2	2	2	0	7.75	8.75	1	0	0	0	0	0	0	0	0
8/27/2024 10:08	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 10:08	42601	TUSC_T1	0	0	0	0	0	0	0.36	0.31	3	3	0	2400	2400	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/27/2024 10:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 10:09	26402	INOR_T1	0	0	0	0	0	0	-1.63	-1.6	1	1	0	600	600	0
8/27/2024 10:09	12302	LANA_T2	0	0	0	0	0	0	-1.19	-1.23	2	2	0	1500	1500	0
8/27/2024 10:09	20401	ASHF_T2	1	4	3	0.4	0.6	0.2	0	0	0	0	0	0	0	0
8/27/2024 10:09	26401	INOR_T1	77	99	22	0.55	0.48	-0.07	0	0	0	0	0	0	0	0
8/27/2024 10:09	20403	ASHF_T2	0	0	0	0	0	0	1.69	1.78	0	0	0	0	0	0
8/27/2024 10:09	60502	NMAN_T2	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
8/27/2024 10:10	52403	GRPA_T2	2	3	1	0.15	0.33	0.18	0.27	0.33	0	0	0	0	0	0
8/27/2024 10:10	20403	ASHF_T2	0	0	0	0	0	0	3.38	3.55	0	0	0	0	0	0
8/27/2024 10:10	20401	ASHF_T2	1	4	3	0.4	0.6	0.2	0	0	0	0	0	0	0	0
8/27/2024 10:11	45502	DERR_T2	2	4	2	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
8/27/2024 10:11	52404	GRPA_T2	0	0	0	0	0	0	0.66	0.76	0	0	0	0	0	0
8/27/2024 10:11	52403	GRPA_T2	2	3	1	0.15	0.33	0.18	0	0	0	0	0	0	0	0
8/27/2024 10:11	24801	VALM_T1	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
8/27/2024 10:11	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 10:11	45501	DERR_T2	0	2	2	0	0.7	0.7	0.91	0.98	2	2	0	1800	1800	0
8/27/2024 10:11	45902	AUBU_T1	0	0	0	0	0	0	-0.28	-0.31	1	1	0	600	600	0
8/27/2024 10:12	45502	DERR_T2	2	4	2	0.45	0.3	-0.15	0.32	0.1	0	0	0	0	0	0
8/27/2024 10:12	52402	GRPA_T2	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
8/27/2024 10:12	16101	BING_T2	0	0	0	0	0	0	0.69	0.76	0	0	0	0	0	0
8/27/2024 10:12	45501	DERR_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
8/27/2024 10:12	52403	GRPA_T2	2	3	1	0.15	0.33	0.18	0	0	0	0	0	0	0	0
8/27/2024 10:13	67501	WEWI_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/27/2024 10:13	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	-0.01	-0.01	2	2	0	1200	1200	0
8/27/2024 10:13	67505	WEWI_T1	0	0	0	0	0	0	0.38	0.41	1	1	0	900	900	0
8/27/2024 10:13	53601	DALM_T2	1	1	0	0.2	0	-0.2	-0.04	-0.1	2	2	0	1500	1500	0
8/27/2024 10:13	66502	SMAN_T2	2	2	0	7.75	8.75	1	0.4	0.65	0	0	0	0	0	0
8/27/2024 10:14	45502	DERR_T2	2	4	2	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
8/27/2024 10:14	21501	CEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/27/2024 10:14	47001	HUGH_T2	3	3	0	8.03	8	-0.03	-0.48	-0.34	0	0	0	0	0	0
8/27/2024 10:14	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	-0.01	-0.01	2	2	0	1200	1200	0
8/27/2024 10:14	45902	AUBU_T1	0	0	0	0	0	0	-0.28	-0.31	1	1	0	600	600	0
8/27/2024 10:14	45501	DERR_T2	0	2	2	0	0.7	0.7	0.91	0.98	2	2	0	1800	1800	0
8/27/2024 10:14	25502	MADI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/27/2024 10:14	44801	EDAN_T2	49	46	-3	0.46	0.47	0.01	-2.9	-2.78	0	0	0	0	0	0
8/27/2024 10:14	25501	MADI_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
8/27/2024 10:14	25503	MADI_T1	3	5	2	0.1	0.2	0.1	-0.82	-0.83	0	0	0	0	0	0
8/27/2024 10:15	44301	BEAV_T2	1	1	0	1.8	1.2	-0.6	0	0	0	0	0	0	0	0
8/27/2024 10:15	48302	ORWI_T2	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
8/27/2024 10:15	53502	EVIL_T2	0	0	0	0	0	0	-0.35	0.09	3	3	0	2100	2100	0
8/27/2024 10:15	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	4	4	0	2400	2400	0
8/27/2024 10:16	12801	MICK_T1	0	0	0	0	0	0	-0.43	-0.43	1	1	0	600	600	0
8/27/2024 10:16	48902	FOSP_T2	0	0	0	0	0	0	0.19	-0.26	1	2	1	1200	2400	1200
8/27/2024 10:16	25402	LAHA_T2	0	0	0	0	0	0	-0.42	-0.38	0	0	0	0	0	0
8/27/2024 10:16	47001	HUGH_T2	3	3	0	7.97	8.1	0.13	-0.48	-0.34	0	0	0	0	0	0
8/27/2024 10:16	40101	HUNT_T2	11	23	12	0.47	1.1	0.63	-0.3	-0.3	0	0	0	0	0	0
8/27/2024 10:16	10801	CHHI_T1	3	7	4	0.67	0.79	0.12	-0.87	-0.9	2	2	0	1500	1500	0
8/27/2024 10:17	11507	FREE_T2	0	6	6	0	0.4	0.4	0.57	0.75	0	0	0	0	0	0
8/27/2024 10:17	64203	KINZ_T1	0	4	4	0	0.8	0.8	0	0	0	0	0	0	0	0
8/27/2024 10:17	64204	KINZ_T1	2	1	-1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
8/27/2024 10:17	52004	LING_T2	2	3	1	5.55	4.03	-1.52	0.65	0.69	0	0	0	0	0	0
8/27/2024 10:17	64201	KINZ_T1	0	0	0	0	0	0	-0.46	-0.19	4	4	0	2100	2100	0
8/27/2024 10:18	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1200	1200	0
8/27/2024 10:18	41702	LOGA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/27/2024 10:18	45702	LIND_T2	4	4	0	0.48	0.55	0.07	-1.5	-1.51	0	0	0	0	0	0
8/27/2024 10:18	52004	LING_T2	2	3	1	5.55	4.03	-1.52	0.65	0.69	0	0	0	0	0	0
8/27/2024 10:19	50201	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 10:19	50105	HARR_T3	6	6	0	7.08	7.07	-0.01	0	0	0	0	0	0	0	0
8/27/2024 10:19	64203	KINZ_T1	0	4	4	0	0.8	0.8	0	0	0	0	0	0	0	0
8/27/2024 10:19	64201	KINZ_T1	0	0	0	0	0	0	-0.46	-0.19	4	4	0	2100	2100	0
8/27/2024 10:19	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 10:19	50103	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/27/2024 10:19	16402	MOPO_T1	0	0	0	0	0	0	0.28	0.24	0	0	0	0	0	0
8/27/2024 10:19	58202	NEWV_T1	0	0	0	0	0	0	0.64	0.82	0	0	0	0	0	0
8/27/2024 10:19	50107	HARR_T3	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
8/27/2024 10:19	64204	KINZ_T1	2	1	-1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
8/27/2024 10:20	64204	KINZ_T1	2	1	-1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
8/27/2024 10:20	64201	KINZ_T1	0	0	0	0	0	0	-0.46	-0.19	4	4	0	2100	2100	0
8/27/2024 10:20	64203	KINZ_T1	0	4	4	0	0.8	0.8	0	0	0	0	0	0	0	0
8/27/2024 10:20	48302	ORWI_T2	2	2	0	0.35	0.2	-0.15	-0.23	-0.3	0	0	0	0	0	0
8/27/2024 10:20	42201	SHEN_T2	0	0	0	0	0	0	0.28	0.37	1	1	0	600	600	0
8/27/2024 10:20	16402	MOPO_T1	0	0	0	0	0	0	0.28	0.24	0	0	0	0	0	0
8/27/2024 10:21	56501	ROCK_T2	2	3	1	0.55	0.33	-0.22	-1.94	-1.86	0	0	0	0	0	0
8/27/2024 10:21	42302	MOWR_T2	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
8/27/2024 10:21	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 10:22	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 10:22	66505	SMAN_T2	0	0	0	0	0	0	0.2	0.35	3	3	0	2100	2100	0
8/27/2024 10:22	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 10:22	56501	ROCK_T2	2	3	1	0.55	0.33	-0.22	-0.93	-0.88	0	0	0	0	0	0
8/27/2024 10:22	48302	ORWI_T2	2	2	0	0.35	0.2	-0.15	-0.3	-0.28	0	0	0	0	0	0
8/27/2024 10:22	41902	REED_T1	0	0	0	0	0	0	1.18	1.15	0	0	0	0	0	0
8/27/2024 10:23	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.38	1	1	0	600	600	0
8/27/2024 10:23	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 10:23	56501	ROCK_T2	2	3	1	0.55	0.33	-0.22	-1.86	-1.76	0	0	0	0	0	0
8/27/2024 10:23	42801	SELI_T1	0	0	0	0	0	0	0.93	0.88	1	1	0	1200	1200	0
8/27/2024 10:24	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 10:24	56501	ROCK_T2	2	3	1	0.55	0.33	-0.22	-0.93	-0.88	0	0	0	0	0	0
8/27/2024 10:24	59101	WALK_T2	1	1	0	0.1	0.1	0	3.48	3.86	2	2	0	1200	1200	0
8/27/2024 10:24	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 10:25	59101	WALK_T2	1	1	0	0.1	0.1	0	1.74	1.93	1	1	0	600	600	0
8/27/2024 10:25	57403	SPAN_T1	17	11	-6	0.34	0.21	-0.13	0.2	0.27	0	0	0	0	0	0
8/27/2024 10:25	57401	SPAN_T1	3	4	1	3.27	2.33	-0.94	0	0	0	0	0	0	0	0
8/27/2024 10:25	49803	UNIV_T1	1	160	159	5.8	2.13	-3.67	-1.94	-1.83	0	0	0	0	0	0
8/27/2024 10:25	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 10:26	42503	ALTA_T2	0	0	0	0	0	0	-0.58	-0.55	0	0	0	0	0	0
8/27/2024 10:26	45902	AUBU_T1	0	0	0	0	0	0	-0.31	-0.32	1	1	0	600	600	0
8/27/2024 10:26	10705	CATA_T2	0	0	0	0	0	0	0.44	-0.35	0	1	1	0	900	900
8/27/2024 10:28	13104	NHAM_T1	11	10	-1	0.78	0.1	-0.68	0	0	0	0	0	0	0	0
8/27/2024 10:28	13101	NHAM_T1	0	0	0	0	0	0	-2.83	-2.81	4	4	0	4200	4200	0
8/27/2024 10:29	45902	AUBU_T1	0	0	0	0	0	0	-0.31	-0.32	1	1	0	600	600	0
8/27/2024 10:31	23201	HIRU_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 10:31	23202	HIRU_T2	0	1	1	0	0.1	0.1	0.12	0.12	0	0	0	0	0	0
8/27/2024 10:31	45802	HEGI_T2	2	1	-1	0.25	0.1	-0.15	1.65	1.14	2	4	2	1800	2400	600
8/27/2024 10:32	15703	TANN_T2	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
8/27/2024 10:32	15702	TANN_T2	0	0	0	0	0	0	-0.36	-0.14	0	0	0	0	0	0
8/27/2024 10:34	44203	POIN_T2	0	4	4	0	0.2	0.2	0.53	0.12	2	2	0	2100	2100	0
8/27/2024 10:36	44203	POIN_T2	0	4	4	0	0.2	0.2	0.12	0.47	2	2	0	2100	2100	0
8/27/2024 10:39	63403	HONY_T2	0	0	0	0	0	0	-0.32	-0.32	1	1	0	600	600	0
8/27/2024 10:42	57403	SPAN_T1	11	6	-5	0.2	0.2	0	0.27	0.28	0	0	0	0	0	0
8/27/2024 10:42	13503	MCMI_T2	1	197	196	0.6	0.4	-0.2	-0.79	-0.79	0	0	0	0	0	0
8/27/2024 10:42	57401	SPAN_T1	4	4	0	2.33	3.03	0.7	0	0	0	0	0	0	0	0
8/27/2024 10:43	20403	ASHF_T2	0	2	2	0	0	0	3.82	3.66	0	0	0	0	0	0
8/27/2024 10:43	20401	ASHF_T2	4	4	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
8/27/2024 10:43	29402	BELT_T1	1	8	7	6.8	1.51	-5.29	0	0	0	0	0	0	0	0
8/27/2024 10:43	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 10:44	29402	BELT_T1	1	8	7	6.8	1.51	-5.29	0	0	0	0	0	0	0	0
8/27/2024 10:44	67503	WEWI_T2	1	1	0	6.9	6.7	-0.2	0.25	0.34	0	0	0	0	0	0
8/27/2024 10:47	40101	HUNT_T2	2	5	3	1.1	0.6	-0.5	-0.48	-0.55	0	0	0	0	0	0
8/27/2024 10:50	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.8	1	1	0	900	900	0
8/27/2024 10:50	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.38	1	1	0	600	600	0
8/27/2024 10:50	40101	HUNT_T2	2	5	3	1.1	0.6	-0.5	-0.48	-0.55	0	0	0	0	0	0
8/27/2024 10:51	55002	NEWP_T1	1	3	2	2.2	1.23	-0.97	0	0	0	0	0	0	0	0
8/27/2024 10:51	55001	NEWP_T1	0	0	0	0	0	0	0.07	0.11	0	0	0	0	0	0
8/27/2024 10:53	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 10:53	66504	SMAN_T2	0	0	0	0	0	0	-1.37	-1.35	2	2	0	2400	2400	0
8/27/2024 10:53	66501	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/27/2024 10:54	66501	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/27/2024 10:54	66504	SMAN_T2	0	0	0	0	0	0	-0.68	-0.68	1	1	0	1200	1200	0
8/27/2024 10:54	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 10:54	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 10:55	56501	ROCK_T2	3	1	-2	0.23	0.3	0.07	0	0	0	0	0	0	0	0
8/27/2024 10:55	56504	ROCK_T2	0	0	0	0	0	0	0.11	0.19	0	0	0	0	0	0
8/27/2024 10:56	60101	COCA_T1	0	0	0	0	0	0	0.78	0.81	0	0	0	0	0	0
8/27/2024 10:56	16103	BING_T2	0	0	0	0	0	0	-1.54	-1.47	2	2	0	1500	1500	0
8/27/2024 10:57	16102	BING_T2	0	0	0	0	0	0	0.56	-0.09	1	1	0	1200	1200	0
8/27/2024 10:57	60101	COCA_T1	0	0	0	0	0	0	0.78	0.81	0	0	0	0	0	0
8/27/2024 10:58	21206	ECAR_T2	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
8/27/2024 10:58	21202	ECAR_T2	0	15	15	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 10:58	53601	DALM_T2	3	1	-2	0.53	1	0.47	-0.14	-0.21	2	2	0	1500	1500	0
8/27/2024 10:58	21204	ECAR_T2	1	1	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
8/27/2024 10:59	48902	FOSP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 10:59	48901	FOSP_T2	0	0	0	0	0	0	0.13	0.02	1	1	0	600	600	0
8/27/2024 10:59	16103	BING_T2	0	0	0	0	0	0	-1.54	-1.47	2	2	0	1500	1500	0
8/27/2024 11:00	48902	FOSP_T2	1	0	-1	0.1	0	-0.1	-1.1	-0.42	2	1	-1	2400	1200	-1200
8/27/2024 11:00	44801	EDAN_T2	46	45	-1	0.46	0.32	-0.14	0	0	0	0	0	0	0	0
8/27/2024 11:00	44802	EDAN_T2	0	0	0	0	0	0	-0.66	-0.51	0	0	0	0	0	0
8/27/2024 11:00	46004	BERW_T2	0	1	1	0	0	0	0.63	0.66	0	0	0	0	0	0
8/27/2024 11:01	46206	DANV_T2	1	2	1	1.9	1.3	-0.6	0	0	0	0	0	0	0	0
8/27/2024 11:01	40101	HUNT_T2	2	6	4	1.05	0.8	-0.25	-0.55	-0.56	0	0	0	0	0	0
8/27/2024 11:01	50107	HARR_T3	1	1	0	7.2	7.4	0.2	0	0	0	0	0	0	0	0
8/27/2024 11:01	46203	DANV_T2	1	1	0	6.4	6.3	-0.1	0.02	0.02	0	0	0	0	0	0
8/27/2024 11:01	50105	HARR_T3	6	7	1	7.42	7.52	0.1	0	0	0	0	0	0	0	0
8/27/2024 11:01	50103	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/27/2024 11:02	46206	DANV_T2	1	2	1	1.9	1.3	-0.6	0	0	0	0	0	0	0	0
8/27/2024 11:02	64204	KINZ_T1	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
8/27/2024 11:02	22602	KIMB_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
8/27/2024 11:02	44801	EDAN_T2	46	45	-1	0.46	0.32	-0.14	0	0	0	0	0	0	0	0
8/27/2024 11:02	46203	DANV_T2	1	1	0	6.4	6.3	-0.1	0.02	0.02	0	0	0	0	0	0
8/27/2024 11:02	64201	KINZ_T1	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 11:02	44802	EDAN_T2	0	0	0	0	0	0	-1.32	-1.02	0	0	0	0	0	0
8/27/2024 11:02	64203	KINZ_T1	4	4	0	1.15	1.25	0.1	0.27	0.16	3	3	0	2100	2100	0
8/27/2024 11:03	46203	DANV_T2	1	1	0	6.4	6.3	-0.1	0.04	0.04	0	0	0	0	0	0
8/27/2024 11:03	53501	EVIL_T2	1	4	3	0.2	0.7	0.5	-0.01	-0.01	2	3	1	1200	1400	200

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/27/2024 11:03	46206	DANV_T2	1	2	1	1.9	1.3	-0.6	0	0	0	0	0	0	0	0
8/27/2024 11:04	53501	EVIL_T2	1	4	3	0.2	0.7	0.5	-0.01	-0.01	2	3	1	1200	1400	200
8/27/2024 11:06	66703	STRA_T1	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
8/27/2024 11:08	66703	STRA_T1	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
8/27/2024 11:10	67603	WARW_T1	0	0	0	0	0	0	0.28	0.34	0	0	0	0	0	0
8/27/2024 11:10	67605	WARW_T1	1	1	0	0.5	0.8	0.3	-1.87	-1.84	0	0	0	0	0	0
8/27/2024 11:11	67605	WARW_T1	1	1	0	0.5	0.8	0.3	-1.87	-1.84	0	0	0	0	0	0
8/27/2024 11:12	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 11:12	67605	WARW_T1	1	1	0	0.5	0.8	0.3	-1.87	-1.84	0	0	0	0	0	0
8/27/2024 11:15	53501	EVIL_T2	4	5	1	0.28	0.9	0.62	-0.01	-0.01	3	3	0	1400	1400	0
8/27/2024 11:16	50103	HARR_T3	0	1	1	0	0	0	0	0	3	3	0	3600	3600	0
8/27/2024 11:16	50107	HARR_T3	1	1	0	7.4	7.7	0.3	0	0	0	0	0	0	0	0
8/27/2024 11:16	50105	HARR_T3	6	6	0	7.57	7.53	-0.04	0	0	0	0	0	0	0	0
8/27/2024 11:17	53501	EVIL_T2	4	5	1	0.28	0.9	0.62	-0.01	-0.01	3	3	0	1400	1400	0
8/27/2024 11:17	12701	MACU_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
8/27/2024 11:17	50105	HARR_T3	6	6	0	7.57	7.53	-0.04	0	0	0	0	0	0	0	0
8/27/2024 11:17	50103	HARR_T3	0	1	1	0	0	0	0	0	3	3	0	3600	3600	0
8/27/2024 11:17	50107	HARR_T3	1	1	0	7.4	7.7	0.3	0	0	0	0	0	0	0	0
8/27/2024 11:18	64203	KINZ_T1	4	4	0	1.28	1.4	0.12	0.16	0.32	3	3	0	2100	2100	0
8/27/2024 11:18	24001	WIBA_T1	1	1	0	1	0.3	-0.7	1.57	1.58	0	0	0	0	0	0
8/27/2024 11:18	64204	KINZ_T1	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
8/27/2024 11:18	64201	KINZ_T1	1	6	5	0.2	0.43	0.23	0	0	0	0	0	0	0	0
8/27/2024 11:18	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 11:20	56501	ROCK_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
8/27/2024 11:20	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 11:20	56504	ROCK_T2	0	0	0	0	0	0	0.19	0.12	0	0	0	0	0	0
8/27/2024 11:21	12701	MACU_T1	0	0	0	0	0	0	0.38	-0.8	0	0	0	0	0	0
8/27/2024 11:21	53801	MBRG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 11:21	53802	MBRG_T2	0	0	0	0	0	0	0.58	0.63	0	0	0	0	0	0
8/27/2024 11:21	13503	MCMI_T2	168	185	17	0.36	0.34	-0.02	-1.54	-1.51	0	0	0	0	0	0
8/27/2024 11:22	67201	TEHI_T1	2	4	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/27/2024 11:22	67203	TEHI_T1	10	3	-7	0.69	0	-0.69	3.05	2.81	3	3	0	2100	2100	0
8/27/2024 11:23	24204	PROV_T3	1	1	0	7.6	6.8	-0.8	0	0	0	0	0	0	0	0
8/27/2024 11:23	56504	ROCK_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
8/27/2024 11:23	24201	PROV_T3	3	2	-1	4.1	4.15	0.05	-0.9	-0.86	1	1	0	1200	1200	0
8/27/2024 11:23	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 11:23	56501	ROCK_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
8/27/2024 11:25	22803	HAUT_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 11:25	56504	ROCK_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
8/27/2024 11:25	56501	ROCK_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
8/27/2024 11:25	22805	HAUT_T2	0	0	0	0	0	0	-1.38	-1.41	1	1	0	1200	1200	0
8/27/2024 11:25	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 11:26	52202	DEVO_T2	0	0	0	0	0	0	-0.85	-0.79	0	0	0	0	0	0
8/27/2024 11:26	52204	DEVO_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
8/27/2024 11:27	52204	DEVO_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
8/27/2024 11:27	52202	DEVO_T2	0	0	0	0	0	0	-0.85	-0.79	0	0	0	0	0	0
8/27/2024 11:29	29402	BELT_T1	3	4	1	3	2.28	-0.72	0	0	0	0	0	0	0	0
8/27/2024 11:29	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 11:30	23401	HONE_T2	2	4	2	0.4	0	-0.4	0.5	0.46	0	0	0	0	0	0
8/27/2024 11:31	41001	LAUR_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/27/2024 11:31	53501	EVIL_T2	2	4	2	0.85	0.17	-0.68	-0.01	-0.01	3	3	0	1400	1400	0
8/27/2024 11:31	41002	LAUR_T2	1	3	2	1.1	1.3	0.2	0.19	0.19	0	0	0	0	0	0
8/27/2024 11:32	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 11:32	56504	ROCK_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
8/27/2024 11:32	56501	ROCK_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
8/27/2024 11:33	40602	PIGR_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
8/27/2024 11:33	40603	PIGR_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/27/2024 11:33	40601	PIGR_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
8/27/2024 11:35	16201	POFA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 11:35	16203	POFA_T2	5	10	5	0.32	0.33	0.01	0	0	0	0	0	0	0	0
8/27/2024 11:35	52204	DEVO_T2	2	5	3	0.15	0.23	0.08	0	0	0	0	0	0	0	0
8/27/2024 11:35	52202	DEVO_T2	0	0	0	0	0	0	-0.85	-0.79	0	0	0	0	0	0
8/27/2024 11:36	20601	GRWO_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 11:36	20603	GRWO_T2	0	0	0	0	0	0	-0.34	-0.35	1	1	0	900	900	0
8/27/2024 11:36	42902	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 11:36	42903	MIDD_T2	0	0	0	0	0	0	1.25	0.96	1	1	0	1200	1200	0
8/27/2024 11:37	67201	TEHI_T1	3	2	-1	0.27	0.15	-0.12	1.29	1.3	2	2	0	1500	1500	0
8/27/2024 11:37	67203	TEHI_T1	3	0	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
8/27/2024 11:40	52204	DEVO_T2	2	5	3	0.15	0.23	0.08	0	0	0	0	0	0	0	0
8/27/2024 11:40	52202	DEVO_T2	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
8/27/2024 11:43	26401	INOR_T1	101	98	-3	0.76	0.65	-0.11	1.18	1.15	0	0	0	0	0	0
8/27/2024 11:43	26402	INOR_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/27/2024 11:44	10805	CHHI_T2	1	1	0	8.3	8.5	0.2	-1.36	-1.35	2	2	0	1800	1800	0
8/27/2024 11:45	10805	CHHI_T2	1	12	11	8.5	8.7	0.2	-1.36	-1.35	2	2	0	1800	1800	0
8/27/2024 11:46	52002	LING_T2	0	2	2	0	0	0	0.6	0.65	0	0	0	0	0	0
8/27/2024 11:46	39601	LNFD_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/27/2024 11:46	52004	LING_T2	3	3	0	3.3	3.3	0	0	0	0	0	0	0	0	0
8/27/2024 11:47	53501	EVIL_T2	4	2	-2	0.15	0.35	0.2	-0.01	-0.01	3	3	0	1400	1400	0
8/27/2024 11:47	41002	LAUR_T2	1	3	2	1.3	1.4	0.1	0.19	0.21	0	0	0	0	0	0
8/27/2024 11:47	41001	LAUR_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/27/2024 11:48	52002	LING_T2	0	2	2	0	0	0	0.6	0.65	0	0	0	0	0	0
8/27/2024 11:48	52004	LING_T2	3	3	0	3.3	3.3	0	0	0	0	0	0	0	0	0
8/27/2024 11:52	13503	MCMI_T2	177	103	-74	0.34	0.25	-0.09	-0.73	-0.71	0	0	0	0	0	0
8/27/2024 11:52	63403	HONY_T2	0	0	0	0	0	0	-1.35	-1.3	1	1	0	600	600	0
8/27/2024 11:54	59202	THOM_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/27/2024 11:55	59202	THOM_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/27/2024 11:55	13702	SCHN_T1	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
8/27/2024 11:56	67804	WLAN_T1	2	4	2	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
8/27/2024 11:56	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 11:56	67801	WLAN_T1	0	0	0	0	0	0	0.32	-0.89	0	0	0	0	0	0
8/27/2024 11:56	16302	ALPA_T2	0	1	1	0	0.3	0.3	0.26	0.44	0	0	0	0	0	0
8/27/2024 11:57	16302	ALPA_T2	0	1	1	0	0.3	0.3	0.09	0.15	0	0	0	0	0	0
8/27/2024 11:58	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/27/2024 12:00	53502	EVIL_T2	0	0	0	0	0	0	-0.03	-0.16	3	3	0	2100	2100	0
8/27/2024 12:00	53501	EVIL_T2	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
8/27/2024 12:00	60101	COCA_T1	0	0	0	0	0	0	1.82	1.8	0	0	0	0	0	0
8/27/2024 12:01	60101	COCA_T1	0	0	0	0	0	0	0.91	0.9	0	0	0	0	0	0
8/27/2024 12:01	15703	TANN_T2	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
8/27/2024 12:01	15702	TANN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 12:02	60101	COCA_T1	0	0	0	0	0	0	0.91	0.9	0	0	0	0	0	0
8/27/2024 12:03	53501	EVIL_T2	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
8/27/2024 12:03	53502	EVIL_T2	0	0	0	0	0	0	-0.03	-0.16	3	3	0	2100	2100	0
8/27/2024 12:03	12402	MILF_T1	98	107	9	0.73	0.74	0.01	1.1	1.13	0	0	0	0	0	0
8/27/2024 12:03	52002	LING_T2	0	9	9	0	0.1	0.1	0.65	0.68	0	0	0	0	0	0
8/27/2024 12:03	52004	LING_T2	3	3	0	3.3	3.27	-0.03	0	0	0	0	0	0	0	0
8/27/2024 12:04	45801	HEGI_T1	1	1	0	0.4	0	-0.4	0.41	0.37	1	1	0	900	900	0
8/27/2024 12:04	58401	MORO_T1	0	0	0	0	0	0	-2.1	-2.05	2	2	0	1500	1500	0
8/27/2024 12:05	52002	LING_T2	0	9	9	0	0.1	0.1	0.65	0.68	0	0	0	0	0	0
8/27/2024 12:05	52004	LING_T2	3	3	0	3.3	3.27	-0.03	0	0	0	0	0	0	0	0
8/27/2024 12:05	58401	MORO_T1	0	0	0	0	0	0	-2.1	-2.05	2	2	0	1500	1500	0
8/27/2024 12:06	40603	PIGR_T1	1	2	1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
8/27/2024 12:06	40601	PIGR_T1	1	3	2	0.4	0.6	0.2	0	0	0	0	0	0	0	0
8/27/2024 12:06	40602	PIGR_T1	1	1	0	2.3	0.9	-1.4	-1.15	-1.07	1	1	0	600	600	0
8/27/2024 12:11	59202	THOM_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/27/2024 12:11	45501	DERR_T2	5	12	7	0.66	0.5	-0.16	1.22	1.22	2	2	0	1800	1800	0
8/27/2024 12:11	45502	DERR_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 12:13	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/27/2024 12:13	10801	CHHI_T1	4	8	4	0.45	0.5	0.05	-1.17	-1.13	3	3	0	2100	2100	0
8/27/2024 12:14	23001	SAJO_T1	1	2	1	0.5	0.35	-0.15	-0.02	-0.01	0	0	0	0	0	0
8/27/2024 12:14	45502	DERR_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 12:14	23002	SAJO_T1	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
8/27/2024 12:14	63302	GREE_T1	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
8/27/2024 12:14	45501	DERR_T2	5	12	7	0.66	0.5	-0.16	1.22	1.22	2	2	0	1800	1800	0
8/27/2024 12:15	45502	DERR_T2	5	0	-5	0.24	0	-0.24	0	0	0	0	0	0	0	0
8/27/2024 12:15	45501	DERR_T2	8	10	2	0.59	0.64	0.05	2.44	2.44	4	4	0	3600	3600	0
8/27/2024 12:16	45502	DERR_T2	5	0	-5	0.24	0	-0.24	0	0	0	0	0	0	0	0
8/27/2024 12:16	23002	SAJO_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 12:16	23001	SAJO_T1	2	1	-1	0.35	0.5	0.15	-0.02	-0.01	0	0	0	0	0	0
8/27/2024 12:16	52403	GRPA_T2	7	23	16	0.67	0.63	-0.04	0.38	0.49	0	0	0	0	0	0
8/27/2024 12:16	45501	DERR_T2	8	10	2	0.59	0.64	0.05	1.22	1.22	2	2	0	1800	1800	0
8/27/2024 12:17	61301	EARL_T1	0	0	0	0	0	0	-0.9	-0.91	2	2	0	1800	1800	0
8/27/2024 12:17	52403	GRPA_T2	7	23	16	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
8/27/2024 12:17	52404	GRPA_T2	0	0	0	0	0	0	0.66	0.2	0	0	0	0	0	0
8/27/2024 12:17	66703	STRA_T1	0	0	0	0	0	0	-0.06	-0.02	0	0	0	0	0	0
8/27/2024 12:18	42902	MIDD_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/27/2024 12:18	42903	MIDD_T2	2	2	0	1	0.95	-0.05	0.18	0.21	1	1	0	1200	1200	0
8/27/2024 12:18	53501	EVIL_T2	2	10	8	0.35	0.2	-0.15	-0.01	-0.01	3	3	0	1400	1400	0
8/27/2024 12:20	42001	MNVL_T2	3	3	0	0.37	0.3	-0.07	0.26	0.3	0	0	0	0	0	0
8/27/2024 12:20	66703	STRA_T1	0	0	0	0	0	0	-0.06	-0.02	0	0	0	0	0	0
8/27/2024 12:20	42002	MNVL_T2	1	1	0	5.5	5	-0.5	0	0	0	0	0	0	0	0
8/27/2024 12:21	57304	MOAL_T2	1	0	-1	0.1	0	-0.1	0.31	-0.26	0	0	0	0	0	0
8/27/2024 12:21	57303	MOAL_T2	1	1	0	8.7	8.4	-0.3	0	0	0	0	0	0	0	0
8/27/2024 12:23	43108	SMIL_T2	1	1	0	0.4	0.3	-0.1	-1.27	-1.36	2	2	0	2400	2400	0
8/27/2024 12:23	43101	SMIL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/27/2024 12:23	55002	NEWP_T1	1	1	0	2.2	2.1	-0.1	0	0	0	0	0	0	0	0
8/27/2024 12:23	55001	NEWP_T1	0	0	0	0	0	0	-0.4	-0.3	1	1	0	600	600	0
8/27/2024 12:24	67201	TEHI_T1	1	7	6	0.1	0.72	0.62	1.4	1.33	2	2	0	1500	1500	0
8/27/2024 12:24	54203	PENN_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 12:24	67203	TEHI_T1	3	19	16	1.47	1.73	0.26	0	0	0	0	0	0	0	0
8/27/2024 12:24	54201	PENN_T1	3	3	0	0.97	0.5	-0.47	-1.77	-1.76	0	0	0	0	0	0
8/27/2024 12:25	55002	NEWP_T1	1	1	0	2.2	2.1	-0.1	0	0	0	0	0	0	0	0
8/27/2024 12:25	55001	NEWP_T1	0	0	0	0	0	0	-0.4	-0.3	1	1	0	600	600	0
8/27/2024 12:27	11101	EGYP_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/27/2024 12:27	11104	EGYP_T1	5	6	1	1.88	2.28	0.4	1.21	1.22	0	0	0	0	0	0
8/27/2024 12:27	11102	EGYP_T1	3	7	4	0.83	0.67	-0.16	0	0	0	0	0	0	0	0
8/27/2024 12:28	13702	SCHN_T1	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
8/27/2024 12:29	22901	HARW_T1	0	3	3	0	0	0	0.03	0	1	1	0	1200	1200	0
8/27/2024 12:29	11104	EGYP_T1	5	6	1	1.88	2.28	0.4	1.21	1.22	0	0	0	0	0	0
8/27/2024 12:29	11101	EGYP_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/27/2024 12:29	11102	EGYP_T1	3	7	4	0.83	0.67	-0.16	0	0	0	0	0	0	0	0
8/27/2024 12:29	22903	HARW_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 12:30	40901	JESH_T1	1	1	0	1	1.2	0.2	-0.32	-0.23	1	1	0	900	900	0
8/27/2024 12:30	11101	EGYP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/27/2024 12:30	11102	EGYP_T1	7	3	-4	0.67	0.67	0	0	0	0	0	0	0	0	0
8/27/2024 12:30	11104	EGYP_T1	5	7	2	2.28	1.97	-0.31	1.21	1.22	0	0	0	0	0	0
8/27/2024 12:31	66703	STRA_T1	0	0	0	0	0	0	-0.02	0.04	0	0	0	0	0	0
8/27/2024 12:31	40101	HUNT_T2	18	14	-4	0.34	0.4	0.06	-0.5	-0.5	0	0	0	0	0	0
8/27/2024 12:32	46203	DANV_T2	1	1	0	4	4.8	0.8	0.03	0.03	0	0	0	0	0	0
8/27/2024 12:32	46206	DANV_T2	7	4	-3	0.74	1.03	0.29	2.28	2.36	4	4	0	4200	4200	0
8/27/2024 12:33	46206	DANV_T2	7	4	-3	0.74	1.03	0.29	1.14	1.18	2	2	0	2100	2100	0
8/27/2024 12:33	46203	DANV_T2	1	1	0	4	4.8	0.8	0	0	0	0	0	0	0	0
8/27/2024 12:34	53501	EVIL_T2	1	16	15	0.2	0.24	0.04	-0.01	-0.01	3	3	0	1400	1400	0
8/27/2024 12:35	55001	NEWP_T1	0	0	0	0	0	0	-0.4	-0.3	1	1	0	600	600	0
8/27/2024 12:35	40101	HUNT_T2	18	14	-4	0.34	0.4	0.06	-0.5	-0.5	0	0	0	0	0	0
8/27/2024 12:35	55002	NEWP_T1	1	1	0	2.1	1.7	-0.4	0	0	0	0	0	0	0	0
8/27/2024 12:37	44201	POIN_T1	0	0	0	0	0	0	-0.39	-0.58	2	2	0	2100	2100	0
8/27/2024 12:39	55102	WERT_T2	79	126	47	0.94	1.07	0.13	-0.5	-0.62	2	2	0	1200	1200	0
8/27/2024 12:39	55001	NEWP_T1	0	0	0	0	0	0	-0.3	-0.26	1	1	0	600	600	0
8/27/2024 12:39	55101	WERT_T1	7	12	5	0.37	0.53	0.16	-1.82	-1.62	4	4	0	3300	3300	0
8/27/2024 12:39	55002	NEWP_T1	1	1	0	2.1	1.7	-0.4	0	0	0	0	0	0	0	0
8/27/2024 12:40	55101	WERT_T1	7	12	5	0.37	0.53	0.16	-1.82	-1.62	4	4	0	3300	3300	0
8/27/2024 12:40	42701	AUGU_T1	0	2	2	0	0.2	0.2	0	0	2	2	0	1800	1800	0
8/27/2024 12:41	42601	TUSC_T1	0	2	2	0	0	0	-0.34	-0.21	3	3	0	2400	2400	0
8/27/2024 12:41	55101	WERT_T1	7	12	5	0.37	0.53	0.16	-1.82	-1.62	4	4	0	3300	3300	0
8/27/2024 12:42	55101	WERT_T1	7	12	5	0.37	0.53	0.16	-1.82	-1.62	4	4	0	3300	3300	0
8/27/2024 12:42	16005	DORN_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/27/2024 12:43	55101	WERT_T1	7	12	5	0.37	0.53	0.16	-1.82	-1.62	4	4	0	3300	3300	0
8/27/2024 12:46	61501	EPET_T2	1	1	0	5.7	5.9	0.2	0	0	0	0	0	0	0	0
8/27/2024 12:46	61504	EPET_T2	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
8/27/2024 12:46	52004	LING_T2	2	2	0	4.65	4.35	-0.3	0	0	0	0	0	0	0	0
8/27/2024 12:46	52002	LING_T2	8	11	3	0.41	0.43	0.02	0.79	0.82	0	0	0	0	0	0
8/27/2024 12:46	11804	FRAN_T1	11	20	9	0.24	0.56	0.32	1.89	2.01	0	0	0	0	0	0
8/27/2024 12:47	46803	HEPB_T2	1	2	1	0.9	0.7	-0.2	0.62	0.61	0	0	0	0	0	0
8/27/2024 12:47	46504	LOHA_T1	3	3	0	1.07	1.1	0.03	0	0	0	0	0	0	0	0
8/27/2024 12:47	52004	LING_T2	2	2	0	4.65	4.35	-0.3	0	0	0	0	0	0	0	0
8/27/2024 12:47	46501	LOHA_T1	1	1	0	3.2	2.4	-0.8	0	0	0	0	0	0	0	0
8/27/2024 12:47	46503	LOHA_T1	0	0	0	0	0	0	-1.07	-1.08	0	0	0	0	0	0
8/27/2024 12:47	52002	LING_T2	8	11	3	0.41	0.43	0.02	0.79	0.82	0	0	0	0	0	0
8/27/2024 12:47	46801	HEPB_T2	1	2	1	0.4	1.15	0.75	0	0	0	0	0	0	0	0
8/27/2024 12:48	40101	HUNT_T2	4	15	11	0.43	0.28	-0.15	-0.5	-0.48	0	0	0	0	0	0
8/27/2024 12:48	53501	EVIL_T2	10	23	13	0.37	0.43	0.06	0	0	0	0	0	0	0	0
8/27/2024 12:48	63602	LETO_T1	0	0	0	0	0	0	-0.11	-0.13	1	1	0	600	600	0
8/27/2024 12:48	53502	EVIL_T2	0	1	1	0	0	0	-0.12	0.27	3	3	0	2100	2100	0
8/27/2024 12:49	63602	LETO_T1	0	0	0	0	0	0	-0.11	-0.13	1	1	0	600	600	0
8/27/2024 12:50	64204	KINZ_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
8/27/2024 12:50	64203	KINZ_T1	3	5	2	1.37	1.14	-0.23	0	0	0	0	0	0	0	0
8/27/2024 12:50	64201	KINZ_T1	3	2	-1	0.27	0.4	0.13	0	0	0	0	0	0	0	0
8/27/2024 12:50	64202	KINZ_T1	0	0	0	0	0	0	0.69	0.63	0	0	0	0	0	0
8/27/2024 12:50	42903	MIDD_T2	0	0	0	0	0	0	1.09	1.45	1	1	0	1200	1200	0
8/27/2024 12:50	42902	MIDD_T2	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
8/27/2024 12:52	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 12:52	43108	SMIL_T2	1	1	0	0.3	0	-0.3	-0.64	-0.68	1	1	0	1200	1200	0
8/27/2024 12:52	43101	SMIL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/27/2024 12:54	43202	MVIL_T2	0	0	0	0	0	0	-0.77	-0.81	0	0	0	0	0	0
8/27/2024 12:57	45501	DERR_T2	5	9	4	0.74	0.61	-0.13	1.32	1.39	2	2	0	1800	1800	0
8/27/2024 12:57	24102	EHAZ_T1	7	7	0	0.96	1.05	0.09	0.83	0.79	0	0	0	0	0	0
8/27/2024 12:57	24101	EHAZ_T1	23	23	0	1.56	0.95	-0.61	0	0	0	0	0	0	0	0
8/27/2024 12:57	24105	EHAZ_T1	4	4	0	6.85	6.38	-0.47	0	0	0	0	0	0	0	0
8/27/2024 12:58	24702	FLND_T2	2	2	0	0.2	0.7	0.5	0	0	1	1	0	1200	1200	0
8/27/2024 12:58	45501	DERR_T2	5	9	4	0.74	0.61	-0.13	1.32	1.39	2	2	0	1800	1800	0
8/27/2024 13:01	53502	EVIL_T2	0	4	4	0	0.3	0.3	0.27	0.04	3	3	0	2100	2100	0
8/27/2024 13:01	53501	EVIL_T2	14	51	37	0.38	0.77	0.39	0	0	0	0	0	0	0	0
8/27/2024 13:02	44801	EDAN_T2	3	6	3	0.57	0.5	-0.07	-3.72	-3.64	0	0	0	0	0	0
8/27/2024 13:02	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 13:02	52002	LING_T2	8	12	4	0.43	0.52	0.09	0.82	0.82	0	0	0	0	0	0
8/27/2024 13:02	52404	GRPA_T2	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
8/27/2024 13:02	52004	LING_T2	2	2	0	4.35	4.3	-0.05	0	0	0	0	0	0	0	0
8/27/2024 13:02	52403	GRPA_T2	6	3	-3	0.73	0.33	-0.4	0	0	0	0	0	0	0	0
8/27/2024 13:03	64203	KINZ_T1	5	5	0	1.14	1.26	0.12	0.34	0.33	3	3	0	2100	2100	0
8/27/2024 13:03	64204	KINZ_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
8/27/2024 13:03	53502	EVIL_T2	0	4	4	0	0.3	0.3	0.27	0.04	3	3	0	2100	2100	0
8/27/2024 13:03	53501	EVIL_T2	14	51	37	0.38	0.77	0.39	0	0	0	0	0	0	0	0
8/27/2024 13:03	64201	KINZ_T1	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
8/27/2024 13:04	13002	NBET_T2	0	0	0	0	0	0	-0.88	-0.86	2	2	0	2400	2400	0
8/27/2024 13:04	44802	EDAN_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
8/27/2024 13:04	44801	EDAN_T2	3	6	3	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
8/27/2024 13:05	64902	MILL_T2	0	0	0	0	0	0	-0.55	-0.58	1	1	0	900	900	0
8/27/2024 13:05	56501	ROCK_T2	9	8	-1	0.79	0.41	-0.38	-1.78	-1.74	0	0	0	0	0	0
8/27/2024 13:05	13702	SCHN_T1	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
8/27/2024 13:05	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 13:05	56504	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 13:07	52004	LING_T2	2	2	0	4.35	4.3	-0.05	0	0	0	0	0	0	0	0
8/27/2024 13:07	52002	LING_T2	8	12	4	0.43	0.52	0.09	0.82	0.83	0	0	0	0	0	0
8/27/2024 13:08	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 13:08	56504	ROCK_T2	1	0	-1	0.1	0	-0.1	-0.58	-0.56	0	0	0	0	0	0
8/27/2024 13:08	56501	ROCK_T2	9	8	-1	0.79	0.41	-0.38	0	0	0	0	0	0	0	0
8/27/2024 13:08	13702	SCHN_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
8/27/2024 13:10	56504	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 13:10	43201	MVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 13:10	43202	MVIL_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
8/27/2024 13:10	56501	ROCK_T2	9	8	-1	0.79	0.41	-0.38	-3.49	-3.43	0	0	0	0	0	0
8/27/2024 13:10	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 13:10	25603	ARRO_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
8/27/2024 13:11	56501	ROCK_T2	9	8	-1	0.79	0.41	-0.38	-1.74	-1.71	0	0	0	0	0	0
8/27/2024 13:11	55105	WERT_T1	0	0	0	0	0	0	0.45	0.53	1	1	0	900	900	0
8/27/2024 13:11	56504	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 13:11	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 13:11	55101	WERT_T1	12	66	54	0.76	0.44	-0.32	0	0	0	0	0	0	0	0
8/27/2024 13:12	67602	WARW_T2	0	0	0	0	0	0	0.71	0.73	1	1	0	300	300	0
8/27/2024 13:13	44301	BEAV_T2	2	4	2	1.25	1.17	-0.08	0	0	0	0	0	0	0	0
8/27/2024 13:13	67602	WARW_T2	0	0	0	0	0	0	0.71	0.73	1	1	0	300	300	0
8/27/2024 13:14	67602	WARW_T2	0	0	0	0	0	0	0.71	0.73	1	1	0	300	300	0
8/27/2024 13:15	55101	WERT_T1	24	66	42	0.44	0.56	0.12	-1.73	-1.62	4	4	0	3300	3300	0
8/27/2024 13:18	65001	NEFF_T2	0	0	0	0	0	0	0.35	0.56	1	1	0	1200	1200	0
8/27/2024 13:18	65005	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 13:19	52004	LING_T2	2	2	0	4.3	4.7	0.4	0.83	0.86	0	0	0	0	0	0
8/27/2024 13:19	52002	LING_T2	11	11	0	0.75	0	-0.75	0	0	0	0	0	0	0	0
8/27/2024 13:21	64101	REFR_T1	3	4	1	0.7	0.63	-0.07	1.08	0.98	0	0	0	0	0	0
8/27/2024 13:22	64101	REFR_T1	3	4	1	0.7	0.63	-0.07	1.63	1.46	0	0	0	0	0	0
8/27/2024 13:23	64101	REFR_T1	3	4	1	0.7	0.63	-0.07	1.08	0.98	0	0	0	0	0	0
8/27/2024 13:24	49803	UNIV_T1	1	1	0	6.5	6.8	0.3	-1.61	-1.63	0	0	0	0	0	0
8/27/2024 13:24	64101	REFR_T1	3	4	1	0.7	0.63	-0.07	0.54	0.49	0	0	0	0	0	0
8/27/2024 13:24	61102	BERK_T5	0	0	0	0	0	0	0.14	0.06	2	2	0	1200	1200	0
8/27/2024 13:24	67901	WNHO_T2	2	3	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
8/27/2024 13:24	49804	UNIV_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/27/2024 13:25	61102	BERK_T5	0	0	0	0	0	0	0.43	0.17	6	6	0	3600	3600	0
8/27/2024 13:25	57404	SPAN_T2	0	0	0	0	0	0	0.66	0.45	1	1	0	1200	1200	0
8/27/2024 13:25	64101	REFR_T1	3	4	1	0.7	0.63	-0.07	0.54	0.49	0	0	0	0	0	0
8/27/2024 13:26	64101	REFR_T1	3	4	1	0.7	0.63	-0.07	0.54	0.49	0	0	0	0	0	0
8/27/2024 13:26	14802	TREI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 13:26	14801	TREI_T2	1	1	0	0.6	0.7	0.1	0.8	0.82	0	0	0	0	0	0
8/27/2024 13:26	61701	ELIZ_T1	1	2	1	0.4	0.55	0.15	2.27	2.03	0	0	0	0	0	0
8/27/2024 13:26	61703	ELIZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 13:26	61102	BERK_T5	0	0	0	0	0	0	0.14	0.06	2	2	0	1200	1200	0
8/27/2024 13:27	43101	SMIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/27/2024 13:27	40201	BEGA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/27/2024 13:27	43108	SMIL_T2	0	0	0	0	0	0	-0.81	-0.81	1	1	0	1200	1200	0
8/27/2024 13:27	61102	BERK_T5	0	0	0	0	0	0	0.14	0.06	2	2	0	1200	1200	0
8/27/2024 13:28	44301	BEAV_T2	4	5	1	0.95	0.53	-0.42	0.46	0.1	2	2	0	1500	1500	0
8/27/2024 13:28	22003	BOHE_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 13:28	67502	WEWI_T2	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
8/27/2024 13:28	22002	BOHE_T1	0	0	0	0	0	0	-0.6	-0.68	0	0	0	0	0	0
8/27/2024 13:28	26401	INOR_T1	133	203	70	1.23	1.39	0.16	1.54	1.52	0	0	0	0	0	0
8/27/2024 13:28	67602	WARW_T2	0	0	0	0	0	0	0.73	0	1	2	1	300	1500	1200
8/27/2024 13:28	67503	WEWI_T2	1	1	0	5	4.7	-0.3	0.58	0.6	0	0	0	0	0	0
8/27/2024 13:28	61102	BERK_T5	0	0	0	0	0	0	0.14	0.06	2	2	0	1200	1200	0
8/27/2024 13:28	26402	INOR_T1	106	174	68	0.42	0.58	0.16	0	0	0	0	0	0	0	0
8/27/2024 13:29	51604	DUKE_T2	0	0	0	0	0	0	-0.28	-0.22	0	0	0	0	0	0
8/27/2024 13:29	44301	BEAV_T2	4	5	1	0.95	0.53	-0.42	0	0	0	0	0	0	0	0
8/27/2024 13:29	40201	BEGA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/27/2024 13:29	66703	STRA_T1	0	0	0	0	0	0	0.12	0.28	0	0	0	0	0	0
8/27/2024 13:30	64101	REFR_T1	3	4	1	0.63	1.17	0.54	0.54	0.49	0	0	0	0	0	0
8/27/2024 13:34	52102	MEIS_T1	0	0	0	0	0	0	0	1	1	1	0	450	450	0
8/27/2024 13:35	58702	ROSE_T2	0	0	0	0	0	0	-1.63	-1.69	0	0	0	0	0	0
8/27/2024 13:35	58706	ROSE_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
8/27/2024 13:35	58705	ROSE_T2	2	2	0	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
8/27/2024 13:36	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/27/2024 13:36	44202	POIN_T2	0	0	0	0	0	0	-0.73	-0.74	2	2	0	1800	1800	0
8/27/2024 13:36	47101	MARL_T1	16	1	-15	0.54	0	-0.54	-0.83	-0.74	0	1	1	0	600	600
8/27/2024 13:36	44203	POIN_T2	7	9	2	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
8/27/2024 13:37	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 13:38	43103	SMIL_T2	0	0	0	0	0	0	-0.27	-0.18	0	0	0	0	0	0
8/27/2024 13:38	10801	CHHI_T1	10	44	34	0.59	0.72	0.13	-0.96	-0.88	3	3	0	2100	2100	0
8/27/2024 13:38	43101	SMIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/27/2024 13:38	65005	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 13:38	65004	NEFF_T2	0	0	0	0	0	0	-0.46	-0.42	1	1	0	600	600	0
8/27/2024 13:39	45402	WBLO_T2	3	2	-1	0.4	0.35	-0.05	-0.75	-0.84	1	1	0	900	900	0
8/27/2024 13:40	43108	SMIL_T2	0	0	0	0	0	0	-0.81	-0.74	1	1	0	1200	1200	0
8/27/2024 13:40	43103	SMIL_T2	0	0	0	0	0	0	-0.53	-0.37	0	0	0	0	0	0
8/27/2024 13:40	43101	SMIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/27/2024 13:40	67901	WNHO_T2	3	4	1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
8/27/2024 13:40	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/27/2024 13:40	67902	WNHO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 13:41	57401	SPAN_T1	0	0	0	0	0	0	-0.32	-0.27	1	1	0	600	600	0
8/27/2024 13:41	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 13:42	61703	ELIZ_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/27/2024 13:42	53502	EVIL_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 13:42	53501	EVIL_T2	49	43	-6	0.56	0.48	-0.08	-0.01	-0.01	3	3	0	1400	1400	0
8/27/2024 13:42	61701	ELIZ_T1	2	4	2	0.7	0.25	-0.45	4.07	4.23	0	0	0	0	0	0
8/27/2024 13:44	53902	HALI_T2	1	2	1	3.9	1.85	-2.05	0	0	0	0	0	0	0	0
8/27/2024 13:44	53901	HALI_T2	0	1	1	0	0.2	0.2	-1.56	-1.5	0	0	0	0	0	0
8/27/2024 13:44	53903	HALI_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/27/2024 13:44	61703	ELIZ_T1	0	7	7	0	0.1	0.1	-6.89	-6.94	6	6	0	6300	6300	0
8/27/2024 13:44	61701	ELIZ_T1	2	4	2	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
8/27/2024 13:45	55101	WERT_T1	39	18	-21	0.63	0.74	0.11	-2.02	-2.08	4	4	0	3300	3300	0
8/27/2024 13:45	63602	LETO_T1	0	0	0	0	0	0	-0.02	0.06	1	1	0	600	600	0
8/27/2024 13:45	40201	BEGA_T2	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/27/2024 13:45	61701	ELIZ_T1	2	8	6	0.25	1.2	0.95	2.03	2.11	0	0	0	0	0	0
8/27/2024 13:45	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 13:45	61703	ELIZ_T1	2	16	14	0.1	0.57	0.47	-2.3	-2.31	2	2	0	2100	2100	0
8/27/2024 13:46	45402	WBLO_T2	2	2	0	0.3	0.4	0.1	-0.75	-0.84	1	1	0	900	900	0
8/27/2024 13:47	61703	ELIZ_T1	2	16	14	0.1	0.57	0.47	-2.3	-2.31	2	2	0	2100	2100	0
8/27/2024 13:47	61701	ELIZ_T1	2	8	6	0.25	1.2	0.95	0	0	0	0	0	0	0	0
8/27/2024 13:48	53903	HALI_T2	2	2	0	0.2	0.65	0.45	0	0	0	0	0	0	0	0
8/27/2024 13:48	53901	HALI_T2	1	1	0	0.2	0	-0.2	-1.56	-1.5	0	0	0	0	0	0
8/27/2024 13:48	53902	HALI_T2	2	3	1	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
8/27/2024 13:49	52004	LING_T2	2	2	0	4.7	4.65	-0.05	0.86	0.88	0	0	0	0	0	0
8/27/2024 13:49	45801	HEGI_T1	0	0	0	0	0	0	0.57	0.59	1	1	0	900	900	0
8/27/2024 13:49	16402	MOPO_T1	4	0	-4	0.48	0	-0.48	0.48	0.48	0	0	0	0	0	0
8/27/2024 13:49	16406	MOPO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 13:50	58401	MORO_T1	0	9	9	0	1.05	1.05	0	0	0	0	0	0	0	0
8/27/2024 13:50	40101	HUNT_T2	70	83	13	0.44	0.42	-0.02	-0.28	-0.38	0	0	0	0	0	0
8/27/2024 13:50	58402	MORO_T1	0	3	3	0	0.2	0.2	-1.25	-1.33	3	3	0	2400	2400	0
8/27/2024 13:52	55001	NEWP_T1	0	0	0	0	0	0	-0.21	-0.17	1	1	0	600	600	0
8/27/2024 13:52	14802	TREI_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 13:52	14801	TREI_T2	1	2	1	0.5	0.5	0	0.92	0.93	0	0	0	0	0	0
8/27/2024 13:52	55002	NEWP_T1	1	1	0	1.6	1	-0.6	0	0	0	0	0	0	0	0
8/27/2024 13:53	41902	REED_T1	2	4	2	0.25	0.37	0.12	0.54	0.53	1	1	0	900	900	0
8/27/2024 13:54	54504	ENOL_T2	0	0	0	0	0	0	-2.38	-2.28	1	1	0	600	600	0
8/27/2024 13:54	54503	ENOL_T2	3	3	0	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
8/27/2024 13:55	67502	WEWI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/27/2024 13:55	67503	WEWI_T2	1	3	2	4.5	1.93	-2.57	0.65	0.66	0	0	0	0	0	0
8/27/2024 13:55	49803	UNIV_T1	1	1	0	6.8	6.7	-0.1	-1.48	-1.43	0	0	0	0	0	0
8/27/2024 13:57	61303	EARL_T1	3	2	-1	1.37	0.8	-0.57	0.54	-0.39	0	0	0	0	0	0
8/27/2024 13:58	58701	ROSE_T2	0	0	0	0	0	0	-0.74	-0.72	1	1	0	600	600	0
8/27/2024 13:58	48901	FOSP_T2	0	1	1	0	0.3	0.3	-0.19	-0.18	1	1	0	600	600	0
8/27/2024 13:58	58706	ROSE_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
8/27/2024 13:58	67602	WARW_T2	0	0	0	0	0	0	0.08	0.33	6	6	0	4500	4500	0
8/27/2024 13:58	58705	ROSE_T2	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
8/27/2024 13:58	48902	FOSP_T2	0	0	0	0	0	0	-0.42	-0.3	1	1	0	1200	1200	0
8/27/2024 13:59	48901	FOSP_T2	0	1	1	0	0.3	0.3	-0.19	-0.18	1	1	0	600	600	0
8/27/2024 13:59	22002	BOHE_T1	0	0	0	0	0	0	-0.6	-0.65	0	0	0	0	0	0
8/27/2024 13:59	22001	BOHE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 14:00	57106	SPHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 14:00	57104	SPHI_T2	0	0	0	0	0	0	-0.82	-0.78	1	1	0	900	900	0
8/27/2024 14:00	53901	HALI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/27/2024 14:00	53903	HALI_T2	2	2	0	0.1	0.65	0.55	0	0	0	0	0	0	0	0
8/27/2024 14:00	53902	HALI_T2	1	3	2	3.6	1.5	-2.1	-0.44	-0.44	0	0	0	0	0	0
8/27/2024 14:00	63304	GREE_T1	0	0	0	0	0	0	-1.96	-1.94	0	0	0	0	0	0
8/27/2024 14:01	46101	MACI_T2	0	0	0	0	0	0	0.09	-0.02	1	1	0	1200	1200	0
8/27/2024 14:01	44802	EDAN_T2	0	0	0	0	0	0	-1.37	-1.35	0	0	0	0	0	0
8/27/2024 14:01	61303	EARL_T1	2	2	0	2.25	0.1	-2.15	0.54	-0.39	0	0	0	0	0	0
8/27/2024 14:01	67602	WARW_T2	0	0	0	0	0	0	0.05	0.22	4	4	0	3000	3000	0
8/27/2024 14:01	44801	EDAN_T2	19	24	5	0.46	0.42	-0.04	0	0	0	0	0	0	0	0
8/27/2024 14:03	63304	GREE_T1	0	0	0	0	0	0	-1.96	-1.94	0	0	0	0	0	0
8/27/2024 14:04	58402	MORO_T1	1	5	4	0.6	0.6	0	0	0	0	0	0	0	0	0
8/27/2024 14:04	58401	MORO_T1	2	10	8	1.05	0.29	-0.76	-1.77	-1.8	2	2	0	1500	1500	0
8/27/2024 14:04	53501	EVIL_T2	29	38	9	0.49	0.25	-0.24	-0.01	-0.01	3	3	0	1400	1400	0
8/27/2024 14:04	53502	EVIL_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 14:05	16402	MOPO_T1	0	4	4	0	0	0	0.48	0.49	0	0	0	0	0	0
8/27/2024 14:05	58202	NEWV_T1	0	0	0	0	0	0	0.32	0.57	0	0	0	0	0	0
8/27/2024 14:05	58201	NEWV_T1	11	13	2	0.25	0.13	-0.12	0	0	0	0	0	0	0	0
8/27/2024 14:06	58401	MORO_T1	2	10	8	1.05	0.29	-0.76	-1.77	-1.8	2	2	0	1500	1500	0
8/27/2024 14:06	58402	MORO_T1	1	5	4	0.6	0.6	0	0	0	0	0	0	0	0	0
8/27/2024 14:07	53502	EVIL_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 14:07	53501	EVIL_T2	29	38	9	0.49	0.25	-0.24	-0.01	-0.01	3	3	0	1400	1400	0
8/27/2024 14:08	41902	REED_T1	3	5	2	0.43	0.27	-0.16	0.53	0.59	1	1	0	900	900	0
8/27/2024 14:09	64101	REFR_T1	3	10	7	1.17	0.78	-0.39	0.54	0.55	0	0	0	0	0	0
8/27/2024 14:10	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/27/2024 14:10	42701	AUGU_T1	1	3	2	0.5	0.5	0	0	0	2	2	0	1800	1800	0
8/27/2024 14:11	67901	WNHO_T2	4	6	2	0.33	0.45	0.12	0	0	0	0	0	0	0	0
8/27/2024 14:11	42701	AUGU_T1	1	3	2	0.5	0.5	0	0	0	2	2	0	1800	1800	0
8/27/2024 14:11	67902	WNHO_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/27/2024 14:14	46005	BERW_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
8/27/2024 14:14	46001	BERW_T1	0	0	0	0	0	0	-3.37	-3.53	0	0	0	0	0	0
8/27/2024 14:15	46204	DANV_T2	20	28	8	0.43	0.83	0.4	0	0	0	0	0	0	0	0
8/27/2024 14:15	46206	DANV_T2	32	56	24	0.52	0.63	0.11	0	0	0	0	0	0	0	0
8/27/2024 14:15	46005	BERW_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
8/27/2024 14:15	53901	HALI_T2	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0
8/27/2024 14:15	53902	HALI_T2	3	2	-1	1.5	2	0.5	0	0	0	0	0	0	0	0
8/27/2024 14:15	46203	DANV_T2	34	46	12	0.61	0.58	-0.03	0.02	0.03	0	0	0	0	0	0
8/27/2024 14:15	46001	BERW_T1	0	0	0	0	0	0	-1.68	-1.76	0	0	0	0	0	0
8/27/2024 14:15	53903	HALI_T2	2	2	0	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
8/27/2024 14:16	53902	HALI_T2	3	2	-1	1.5	2	0.5	0	0	0	0	0	0	0	0
8/27/2024 14:16	53901	HALI_T2	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0
8/27/2024 14:16	53903	HALI_T2	2	2	0	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
8/27/2024 14:17	10801	CHHI_T1	34	65	31	0.73	0.74	0.01	-0.9	-0.89	3	3	0	2100	2100	0
8/27/2024 14:17	67602	WARW_T2	0	0	0	0	0	0	0.11	0.06	2	2	0	1500	1500	0
8/27/2024 14:19	46102	MACI_T1	0	0	0	0	0	0	0.97	0.99	0	0	0	0	0	0
8/27/2024 14:19	58401	MORO_T1	8	18	10	0.4	0.34	-0.06	-1.8	-1.7	2	2	0	1500	1500	0
8/27/2024 14:19	53901	HALI_T2	0	0	0	0	0	0	-1.43	-1.47	0	0	0	0	0	0
8/27/2024 14:19	58402	MORO_T1	3	5	2	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
8/27/2024 14:19	53902	HALI_T2	3	2	-1	1.5	2	0.5	0	0	0	0	0	0	0	0
8/27/2024 14:19	53903	HALI_T2	2	2	0	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
8/27/2024 14:21	58402	MORO_T1	3	5	2	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
8/27/2024 14:21	58401	MORO_T1	8	18	10	0.4	0.34	-0.06	-1.8	-1.7	2	2	0	1500	1500	0
8/27/2024 14:21	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 14:21	67503	WEWI_T2	3	3	0	1.77	4.1	2.33	0.68	0.71	0	0	0	0	0	0
8/27/2024 14:22	48301	ORWI_T1	2	3	1	1.2	1.3	0.1	0.56	0.69	2	2	0	1800	1800	0
8/27/2024 14:23	50701	SMEC_T1	3	1	-2	0.53	0.8	0.27	-1.53	-1.44	2	2	0	2100	2100	0
8/27/2024 14:23	64101	REFR_T1	10	10	0	0.67	0.78	0.11	0.55	0.55	0	0	0	0	0	0
8/27/2024 14:24	43103	SMIL_T2	0	0	0	0	0	0	-1.46	-1.41	0	0	0	0	0	0
8/27/2024 14:24	43101	SMIL_T2	2	1	-1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/27/2024 14:25	50701	SMEC_T1	3	1	-2	0.53	0.8	0.27	-1.53	-1.44	2	2	0	2100	2100	0
8/27/2024 14:25	48301	ORWI_T1	2	3	1	1.2	1.3	0.1	0.28	0.34	1	1	0	900	900	0
8/27/2024 14:27	67902	WNHO_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/27/2024 14:27	67901	WNHO_T2	5	6	1	0.46	1.5	1.04	0	0	0	0	0	0	0	0
8/27/2024 14:27	43103	SMIL_T2	0	0	0	0	0	0	-1.46	-1.41	0	0	0	0	0	0
8/27/2024 14:27	43101	SMIL_T2	2	1	-1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/27/2024 14:28	61703	ELIZ_T1	15	35	20	0.49	0.55	0.06	0	0	0	0	0	0	0	0
8/27/2024 14:28	61701	ELIZ_T1	6	34	28	0.78	0.5	-0.28	2.09	2.14	0	0	0	0	0	0
8/27/2024 14:29	67602	WARW_T2	0	0	0	0	0	0	0.06	0.02	2	2	0	1500	1500	0
8/27/2024 14:29	61703	ELIZ_T1	15	35	20	0.49	0.55	0.06	0	0	0	0	0	0	0	0
8/27/2024 14:29	61701	ELIZ_T1	6	34	28	0.78	0.5	-0.28	2.09	2.14	0	0	0	0	0	0
8/27/2024 14:29	10805	CHHI_T2	1	2	1	8.9	4.7	-4.2	1.06	0.97	2	2	0	1800	1800	0
8/27/2024 14:31	44301	BEAV_T2	3	1	-2	0.33	0	-0.33	-0.31	-0.09	2	1	-1	1500	600	-900
8/27/2024 14:31	46201	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 14:31	46203	DANV_T2	40	46	6	0.63	0.49	-0.14	0.03	0.03	0	0	0	0	0	0
8/27/2024 14:31	46206	DANV_T2	51	58	7	0.69	0.65	-0.04	0	0	0	0	0	0	0	0
8/27/2024 14:31	46204	DANV_T2	25	29	4	0.78	0.46	-0.32	0	0	0	0	0	0	0	0
8/27/2024 14:31	40101	HUNT_T2	59	259	200	0.44	0.44	0	-0.91	-0.88	0	0	0	0	0	0
8/27/2024 14:32	10805	CHHI_T2	2	7	5	4.75	4.6	-0.15	-1.06	-0.97	2	2	0	1800	1800	0
8/27/2024 14:32	61703	ELIZ_T1	31	32	1	0.72	0.4	-0.32	0	0	0	0	0	0	0	0
8/27/2024 14:32	66703	STRA_T1	0	0	0	0	0	0	-0.2	-0.23	0	0	0	0	0	0
8/27/2024 14:32	59301	MCAL_T1	6	6	0	0.43	0.78	0.35	-1.24	-1.26	1	1	0	600	600	0
8/27/2024 14:32	45801	HEGI_T1	0	0	0	0	0	0	0.62	0.64	1	1	0	900	900	0
8/27/2024 14:32	61701	ELIZ_T1	29	24	-5	0.49	0.42	-0.07	2.09	2.14	0	0	0	0	0	0
8/27/2024 14:35	59301	MCAL_T1	6	6	0	0.43	0.78	0.35	-1.24	-1.26	1	1	0	600	600	0
8/27/2024 14:36	59301	MCAL_T1	6	6	0	0.43	0.78	0.35	0	0	0	0	0	0	0	0
8/27/2024 14:37	67502	WEWI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 14:37	52002	LING_T2	4	7	3	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
8/27/2024 14:37	52004	LING_T2	2	2	0	4.15	4.25	0.1	0.92	0.91	0	0	0	0	0	0
8/27/2024 14:37	67503	WEWI_T2	1	3	2	4.1	3.7	-0.4	0.71	0.68	0	0	0	0	0	0
8/27/2024 14:40	13702	SCHN_T1	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
8/27/2024 14:40	64801	MONE_T2	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
8/27/2024 14:41	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 14:41	57401	SPAN_T1	2	9	7	0.5	0.7	0.2	-0.18	-0.06	1	1	0	600	600	0
8/27/2024 14:42	62606	ENGL_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 14:42	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 14:42	62601	ENGL_T1	0	0	0	0	0	0	-1.1	-1.09	0	0	0	0	0	0
8/27/2024 14:44	46206	DANV_T2	51	58	7	0.69	0.65	-0.04	0	0	0	0	0	0	0	0
8/27/2024 14:44	46203	DANV_T2	40	46	6	0.63	0.49	-0.14	0.03	0.03	0	0	0	0	0	0
8/27/2024 14:44	46204	DANV_T2	25	29	4	0.78	0.46	-0.32	0	0	0	0	0	0	0	0
8/27/2024 14:44	46201	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 14:46	53903	HALI_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/27/2024 14:46	53902	HALI_T2	1	1	0	3.7	3.7	0	-0.42	-0.37	0	0	0	0	0	0
8/27/2024 14:46	66703	STRA_T1	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
8/27/2024 14:46	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 14:47	46206	DANV_T2	54	21	-33	0.78	1.05	0.27	0	0	0	0	0	0	0	0
8/27/2024 14:47	40101	HUNT_T2	154	259	105	0.45	0.4	-0.05	-0.88	-0.95	0	0	0	0	0	0
8/27/2024 14:47	46204	DANV_T2	24	26	2	0.8	0.13	-0.67	0	0	0	0	0	0	0	0
8/27/2024 14:47	53902	HALI_T2	1	1	0	3.7	3.7	0	-0.42	-0.37	0	0	0	0	0	0
8/27/2024 14:47	53903	HALI_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/27/2024 14:47	46203	DANV_T2	45	38	-7	0.58	0.5	-0.08	0.03	0.03	0	0	0	0	0	0
8/27/2024 14:48	61703	ELIZ_T1	30	38	8	0.52	0.41	-0.11	-2.52	-2.26	2	2	0	2100	2100	0
8/27/2024 14:48	61701	ELIZ_T1	21	28	7	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
8/27/2024 14:49	44203	POIN_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 14:49	66703	STRA_T1	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
8/27/2024 14:49	46802	HEPB_T1	0	0	0	0	0	0	0.29	0.37	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/27/2024 14:49	53903	HALI_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/27/2024 14:49	44202	POIN_T2	0	0	0	0	0	0	-0.7	-0.64	2	2	0	1800	1800	0
8/27/2024 14:49	53902	HALI_T2	1	1	0	3.7	3.7	0	-1.26	-1.1	0	0	0	0	0	0
8/27/2024 14:49	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 14:50	66901	SHIL_T2	0	0	0	0	0	0	-1.42	-1.43	1	1	0	1200	1200	0
8/27/2024 14:50	20601	GRWO_T2	121	143	22	0.78	0.45	-0.33	0.39	0.38	1	1	0	1200	1200	0
8/27/2024 14:52	54602	SUMM_T2	2	2	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/27/2024 14:52	54601	SUMM_T2	0	1	1	0	0	0	-1.87	-1.86	3	3	0	3000	3000	0
8/27/2024 14:54	66504	SMAN_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
8/27/2024 14:54	54602	SUMM_T2	2	2	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/27/2024 14:54	55001	NEWP_T1	1	3	2	0.2	0.1	-0.1	-0.09	-0.1	1	1	0	600	600	0
8/27/2024 14:54	54601	SUMM_T2	0	1	1	0	0	0	-1.87	-1.86	3	3	0	3000	3000	0
8/27/2024 14:54	64101	REFR_T1	10	5	-5	1.03	1.23	0.2	0.55	0.03	0	0	0	0	0	0
8/27/2024 14:54	66505	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/27/2024 14:54	55002	NEWP_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
8/27/2024 14:55	54601	SUMM_T2	0	1	1	0	0	0	-1.87	-1.86	3	3	0	3000	3000	0
8/27/2024 14:55	54602	SUMM_T2	2	2	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/27/2024 14:55	41902	REED_T1	11	12	1	0.38	0.33	-0.05	0.61	0.61	1	1	0	900	900	0
8/27/2024 14:56	55002	NEWP_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
8/27/2024 14:56	55001	NEWP_T1	1	3	2	0.2	0.1	-0.1	-0.09	-0.1	1	1	0	600	600	0
8/27/2024 15:00	53903	HALI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 15:00	46204	DANV_T2	26	16	-10	0.43	0.13	-0.3	0	0	0	0	0	0	0	0
8/27/2024 15:00	53902	HALI_T2	1	2	1	3.7	3.6	-0.1	-0.37	-0.36	0	0	0	0	0	0
8/27/2024 15:00	46206	DANV_T2	21	7	-14	0.71	2	1.29	0	0	0	0	0	0	0	0
8/27/2024 15:00	46203	DANV_T2	37	44	7	0.49	0.51	0.02	0.03	0.03	0	0	0	0	0	0
8/27/2024 15:02	53902	HALI_T2	1	2	1	3.7	3.6	-0.1	-0.37	-0.36	0	0	0	0	0	0
8/27/2024 15:02	63203	MGTN_T1	0	0	0	0	0	0	-1.26	-1.25	2	2	0	1200	1200	0
8/27/2024 15:02	53903	HALI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 15:03	53903	HALI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 15:03	64301	LINC_T1	0	0	0	0	0	0	-0.09	-0.08	1	1	0	600	600	0
8/27/2024 15:03	64305	LINC_T1	1	1	0	1.4	1.8	0.4	0	0	0	0	0	0	0	0
8/27/2024 15:03	53902	HALI_T2	1	2	1	3.7	3.6	-0.1	-0.37	-0.36	0	0	0	0	0	0
8/27/2024 15:05	53903	HALI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 15:05	53902	HALI_T2	1	2	1	3.7	3.6	-0.1	-0.73	-0.73	0	0	0	0	0	0
8/27/2024 15:06	41902	REED_T1	10	8	-2	0.35	0.34	-0.01	0.61	0.64	1	1	0	900	900	0
8/27/2024 15:07	64305	LINC_T1	1	1	0	1.4	1.8	0.4	-0.12	-0.05	0	0	0	0	0	0
8/27/2024 15:07	14404	SSLA_T1	31	39	8	0.56	0.81	0.25	0	0	0	0	0	0	0	0
8/27/2024 15:07	14403	SSLA_T1	4	3	-1	0.78	0.55	-0.23	0.78	0.87	0	0	0	0	0	0
8/27/2024 15:07	14401	SSLA_T1	4	5	1	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
8/27/2024 15:08	54602	SUMM_T2	2	5	3	0.15	0.5	0.35	0	0	0	0	0	0	0	0
8/27/2024 15:08	54601	SUMM_T2	1	0	-1	0.3	0	-0.3	-1.86	-1.87	3	3	0	3000	3000	0
8/27/2024 15:09	67901	WNHO_T2	1	2	1	0.8	1.4	0.6	0	0	0	0	0	0	0	0
8/27/2024 15:09	14403	SSLA_T1	4	3	-1	0.78	0.55	-0.23	0.78	0.87	0	0	0	0	0	0
8/27/2024 15:09	46903	MNTG_T2	1	1	0	0.6	0.6	0	0.49	0.57	1	1	0	600	600	0
8/27/2024 15:09	14404	SSLA_T1	31	39	8	0.56	0.81	0.25	0	0	0	0	0	0	0	0
8/27/2024 15:09	14401	SSLA_T1	4	5	1	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
8/27/2024 15:10	54602	SUMM_T2	2	5	3	0.15	0.5	0.35	0	0	0	0	0	0	0	0
8/27/2024 15:10	54601	SUMM_T2	1	0	-1	0.3	0	-0.3	-1.86	-1.87	3	3	0	3000	3000	0
8/27/2024 15:11	45501	DERR_T2	22	9	-13	0.4	0.68	0.28	1.18	1.11	2	2	0	1800	1800	0
8/27/2024 15:11	45502	DERR_T2	13	10	-3	0.48	0.26	-0.22	0	0	0	0	0	0	0	0
8/27/2024 15:11	64101	REFR_T1	3	10	7	1.4	0.82	-0.58	0.03	0.03	0	0	0	0	0	0
8/27/2024 15:12	49804	UNIV_T1	0	0	0	0	0	0	0.75	1	0	0	0	0	0	0
8/27/2024 15:12	49803	UNIV_T1	2	1	-1	3.25	6	2.75	0	0	0	0	0	0	0	0
8/27/2024 15:13	45501	DERR_T2	22	9	-13	0.4	0.68	0.28	2.37	2.22	4	4	0	3600	3600	0
8/27/2024 15:13	45502	DERR_T2	13	10	-3	0.48	0.26	-0.22	0	0	0	0	0	0	0	0
8/27/2024 15:13	64101	REFR_T1	3	10	7	1.4	0.82	-0.58	0.03	0.03	0	0	0	0	0	0
8/27/2024 15:15	64503	LAVI_T1	0	0	0	0	0	0	-1.08	-0.92	2	2	0	2100	2100	0
8/27/2024 15:15	64502	LAVI_T1	2	20	18	1.9	0.71	-1.19	0	0	0	0	0	0	0	0
8/27/2024 15:16	64502	LAVI_T1	2	20	18	1.9	0.71	-1.19	0	0	0	0	0	0	0	0
8/27/2024 15:16	64503	LAVI_T1	0	0	0	0	0	0	-1.08	-0.92	2	2	0	2100	2100	0
8/27/2024 15:19	58402	MORO_T1	4	2	-2	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
8/27/2024 15:19	64502	LAVI_T1	2	20	18	1.9	0.71	-1.19	0	0	0	0	0	0	0	0
8/27/2024 15:19	58401	MORO_T1	21	26	5	0.6	0.43	-0.17	-1.69	-1.68	2	2	0	1500	1500	0
8/27/2024 15:19	64503	LAVI_T1	0	0	0	0	0	0	-1.08	-0.92	2	2	0	2100	2100	0
8/27/2024 15:20	20603	GRWO_T2	0	0	0	0	0	0	-0.23	-0.24	1	1	0	900	900	0
8/27/2024 15:20	53502	EVIL_T2	4	1	-3	0.23	0.4	0.17	0	0	0	0	0	0	0	0
8/27/2024 15:20	20601	GRWO_T2	49	86	37	0.45	0.48	0.03	0	0	0	0	0	0	0	0
8/27/2024 15:20	25402	LAHA_T2	0	0	0	0	0	0	-0.08	-0.14	0	0	0	0	0	0
8/27/2024 15:20	53501	EVIL_T2	49	26	-23	0.46	0.39	-0.07	-0.01	-0.01	6	6	0	2800	2800	0
8/27/2024 15:21	53501	EVIL_T2	49	26	-23	0.46	0.39	-0.07	-0.01	-0.01	3	3	0	1400	1400	0
8/27/2024 15:21	53502	EVIL_T2	4	1	-3	0.23	0.4	0.17	0	0	0	0	0	0	0	0
8/27/2024 15:22	58402	MORO_T1	4	2	-2	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
8/27/2024 15:22	13502	MCMI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 15:22	58401	MORO_T1	21	26	5	0.6	0.43	-0.17	-1.68	-1.81	2	2	0	1500	1500	0
8/27/2024 15:23	65604	QVIL_T2	1	1	0	0.2	0	-0.2	0.35	0.35	0	0	0	0	0	0
8/27/2024 15:23	65601	QVIL_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/27/2024 15:23	65602	QVIL_T2	2	3	1	0.6	0.85	0.25	0	0	0	0	0	0	0	0
8/27/2024 15:23	64101	REFR_T1	5	10	5	0.82	1.02	0.2	0.03	0.03	0	0	0	0	0	0
8/27/2024 15:24	65601	QVIL_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/27/2024 15:24	14706	TREX_T1	0	0	0	0	0	0	1.2	1.13	2	2	0	2100	2100	0
8/27/2024 15:24	14705	TREX_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/27/2024 15:24	65602	QVIL_T2	2	3	1	0.6	0.85	0.25	0	0	0	0	0	0	0	0
8/27/2024 15:24	67103	SPRI_T1	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
8/27/2024 15:24	65604	QVIL_T2	1	1	0	0.2	0	-0.2	0.35	0.35	0	0	0	0	0	0
8/27/2024 15:25	49803	UNIV_T1	1	1	0	6	6.4	0.4	-1.51	-1.5	0	0	0	0	0	0
8/27/2024 15:27	64101	REFR_T1	5	10	5	0.82	1.02	0.2	0.03	0.03	0	0	0	0	0	0
8/27/2024 15:27	61803	EELI_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 15:27	61801	EELI_T2	11	15	4	1.23	1.11	-0.12	0	0	0	0	0	0	0	0
8/27/2024 15:27	61802	EELI_T2	8	8	0	2.13	2.3	0.17	0	0	0	0	0	0	0	0
8/27/2024 15:28	61802	EELI_T2	8	8	0	2.13	2.3	0.17	0	0	0	0	0	0	0	0
8/27/2024 15:28	58102	NEWI_T1	9	13	4	0.84	0.96	0.12	-0.52	-0.45	1	1	0	1200	1200	0
8/27/2024 15:28	61803	EELI_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 15:28	61801	EELI_T2	11	15	4	1.23	1.11	-0.12	-0.03	-0.08	1	1	0	600	600	0
8/27/2024 15:32	53902	HALI_T2	2	1	-1	1.9	3.7	1.8	0	0	0	0	0	0	0	0
8/27/2024 15:32	53901	HALI_T2	0	0	0	0	0	0	-0.65	-0.72	0	0	0	0	0	0
8/27/2024 15:33	53901	HALI_T2	0	0	0	0	0	0	-0.65	-0.72	0	0	0	0	0	0
8/27/2024 15:33	53902	HALI_T2	2	1	-1	1.9	3.7	1.8	0	0	0	0	0	0	0	0
8/27/2024 15:34	53901	HALI_T2	0	0	0	0	0	0	-1.31	-1.45	0	0	0	0	0	0
8/27/2024 15:34	53902	HALI_T2	2	1	-1	1.9	3.7	1.8	0	0	0	0	0	0	0	0
8/27/2024 15:35	58402	MORO_T1	2	1	-1	0.3	0.8	0.5	0	0	0	0	0	0	0	0
8/27/2024 15:35	53502	EVIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/27/2024 15:35	58401	MORO_T1	26	23	-3	0.58	0.49	-0.09	-1.68	-1.81	2	2	0	1500	1500	0
8/27/2024 15:35	53501	EVIL_T2	24	19	-5	0.7	0.39	-0.31	-0.01	-0.01	6	6	0	2800	2800	0
8/27/2024 15:36	53502	EVIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/27/2024 15:36	53501	EVIL_T2	24	19	-5	0.7	0.39	-0.31	-0.01	-0.01	6	6	0	2800	2800	0
8/27/2024 15:38	64101	REFR_T1	10	6	-4	0.81	1.03	0.22	0.03	0.06	0	0	0	0	0	0
8/27/2024 15:38	58402	MORO_T1	2	1	-1	0.3	0.8	0.5	0	0	0	0	0	0	0	0
8/27/2024 15:38	58401	MORO_T1	26	23	-3	0.58	0.49	-0.09	-1.81	-1.95	2	2	0	1500	1500	0
8/27/2024 15:39	45302	WBER_T2	0	1	1	0	0	0	1.48	1.5	0	0	0	0	0	0
8/27/2024 15:39	41902	REED_T1	8	16	8	0.5	0.43	-0.07	0.63	0.53	1	1	0	900	900	0
8/27/2024 15:39	41901	REED_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/27/2024 15:39	60801	BUCK_T1	0	0	0	0	0	0	-0.18	-0.17	1	1	0	600	600	0
8/27/2024 15:40	61703	ELIZ_T1	65	57	-8	0.37	0.44	0.07	0	0	0	0	0	0	0	0
8/27/2024 15:40	61701	ELIZ_T1	93	82	-11	0.37	0.29	-0.08	2.07	2.19	0	0	0	0	0	0
8/27/2024 15:42	45302	WBER_T2	0	1	1	0	0	0	1.48	1.5	0	0	0	0	0	0
8/27/2024 15:45	66701	STRA_T1	1	0	-1	0.7	0	-0.7	0.79	0.85	1	1	0	600	600	0
8/27/2024 15:45	66703	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 15:46	25402	LAHA_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
8/27/2024 15:46	66703	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 15:46	66701	STRA_T1	1	0	-1	0.7	0	-0.7	0.79	0.85	1	1	0	600	600	0
8/27/2024 15:48	42901	MIDD_T2	2	3	1	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
8/27/2024 15:48	64503	LAVI_T1	0	0	0	0	0	0	-1.01	-1.09	2	2	0	2100	2100	0
8/27/2024 15:48	64502	LAVI_T1	18	11	-7	0.76	0.65	-0.11	0	0	0	0	0	0	0	0
8/27/2024 15:48	42902	MIDD_T2	24	26	2	0.82	0.8	-0.02	-0.32	-0.45	1	1	0	600	600	0
8/27/2024 15:49	42902	MIDD_T2	24	26	2	0.82	0.8	-0.02	-0.32	-0.45	1	1	0	600	600	0
8/27/2024 15:49	41001	LAUR_T2	11	14	3	0.75	0.68	-0.07	0	0	0	0	0	0	0	0
8/27/2024 15:49	48301	ORWI_T1	3	3	0	1.27	1.17	-0.1	0.27	0.31	1	1	0	900	900	0
8/27/2024 15:49	42901	MIDD_T2	2	3	1	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
8/27/2024 15:49	41002	LAUR_T2	4	4	0	0.63	0.8	0.17	0.03	0.06	0	0	0	0	0	0
8/27/2024 15:50	64503	LAVI_T1	0	0	0	0	0	0	-1.01	-1.09	2	2	0	2100	2100	0
8/27/2024 15:50	64502	LAVI_T1	18	11	-7	0.76	0.65	-0.11	0	0	0	0	0	0	0	0
8/27/2024 15:51	42902	MIDD_T2	24	26	2	0.82	0.8	-0.02	-0.45	-0.55	1	1	0	600	600	0
8/27/2024 15:51	42901	MIDD_T2	2	3	1	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
8/27/2024 15:52	64502	LAVI_T1	18	11	-7	0.76	0.65	-0.11	0	0	0	0	0	0	0	0
8/27/2024 15:52	64503	LAVI_T1	0	0	0	0	0	0	-1.09	-1.08	2	2	0	2100	2100	0
8/27/2024 15:54	48301	ORWI_T1	3	3	0	1.27	1.17	-0.1	0.62	0.45	2	2	0	1800	1800	0
8/27/2024 15:55	15001	BLMO_T1	7	11	4	0.54	0.56	0.02	0	0	0	0	0	0	0	0
8/27/2024 15:58	53601	DALM_T2	1	1	0	0.4	0.1	-0.3	-0.3	-0.34	1	1	0	600	600	0
8/27/2024 15:59	61801	EELI_T2	14	12	-2	1.02	0.88	-0.14	0	0	0	0	0	0	0	0
8/27/2024 15:59	61802	EELI_T2	8	8	0	2.3	1.74	-0.56	-0.12	-0.09	0	0	0	0	0	0
8/27/2024 16:00	40901	JESH_T1	2	2	0	1.25	2.3	1.05	0	0	0	0	0	0	0	0
8/27/2024 16:00	11504	FREE_T1	0	2	2	0	0	0	-1.49	-1.45	2	2	0	2100	2100	0
8/27/2024 16:00	11502	FREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 16:00	40902	JESH_T1	0	0	0	0	0	0	-0.61	-1.54	2	3	1	1200	1800	600
8/27/2024 16:00	11505	FREE_T1	4	3	-1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/27/2024 16:02	51401	LYKE_T1	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
8/27/2024 16:03	47101	MARL_T1	71	10	0.84	0.73	-0.11	-0.71	0.71	1	1	0	600	600	0
8/27/2024 16:03	42903	MIDD_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
8/27/2024 16:03	42901	MIDD_T2	3	3	0	0.83	0.4	-0.43	0	0	0	0	0	0	0	0
8/27/2024 16:03	42902	MIDD_T2	26	27	1	0.82	1.07	0.25	-0.45	-0.55	1	1	0	600	600	0
8/27/2024 16:04	42903	MIDD_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
8/27/2024 16:04	42901	MIDD_T2	3	3	0	0.83	0.4	-0.43	0	0	0	0	0	0	0	0
8/27/2024 16:04	42902	MIDD_T2	26	27	1	0.82	1.07	0.25	-0.89	-1.09	2	2	0	1200	1200	0
8/27/2024 16:05	42901	MIDD_T2	3	3	0	0.83	0.4	-0.43	0	0	0	0	0	0	0	0
8/27/2024 16:05	47101	MARL_T1	61	71	10	0.84	0.73	-0.11	-1.42	-1.42	2	2	0	1200	1200	0
8/27/2024 16:05	44202	POIN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 16:05	42902	MIDD_T2	26	27	1	0.82	1.07	0.25	-0.45	-0.55	1	1	0	600	600	0
8/27/2024 16:05	42903	MIDD_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
8/27/2024 16:05	44203	POIN_T2	140	1351	1211	0.95	0	-0.95	0.38	-0.74	2	2	0	2100	2100	0
8/27/2024 16:07	42901	MIDD_T2	3	3	0	0.83	0.4	-0.43	0	0	0	0	0	0	0	0
8/27/2024 16:07	42902	MIDD_T2	26	27	1	0.82	1.07	0.25	-0.55	-0.71	1	1	0	600	600	0
8/27/2024 16:07	42903	MIDD_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
8/27/2024 16:08	42902	MIDD_T2	26	27	1	0.82	1.07	0.25	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/27/2024 16:08	44202	POIN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 16:08	44203	POIN_T2	140	1351	1211	0.95	0	-0.95	-0.74	-0.14	2	2	0	2100	2100	0
8/27/2024 16:08	42901	MIDD_T2	3	3	0	0.83	0.4	-0.43	0	0	0	0	0	0	0	0
8/27/2024 16:08	42903	MIDD_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
8/27/2024 16:09	58402	MORO_T1	1	3	2	1.7	0.83	-0.87	-1.27	-1.32	4	4	0	2850	2850	0
8/27/2024 16:09	58401	MORO_T1	21	44	23	0.51	0.54	0.03	0	0	0	0	0	0	0	0
8/27/2024 16:12	45502	DERR_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
8/27/2024 16:12	43108	SMIL_T2	2	1	-1	1.05	0	-1.05	0	0	0	0	0	0	0	0
8/27/2024 16:12	43101	SMIL_T2	2	3	1	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/27/2024 16:12	43104	SMIL_T2	0	0	0	0	0	0	-0.41	-0.39	2	2	0	600	600	0
8/27/2024 16:12	45501	DERR_T2	4	7	3	0.4	0.23	-0.17	1.01	0.93	2	2	0	1800	1800	0
8/27/2024 16:12	60101	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 16:13	43108	SMIL_T2	2	1	-1	1.05	0	-1.05	0	0	0	0	0	0	0	0
8/27/2024 16:13	43101	SMIL_T2	2	3	1	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/27/2024 16:13	43104	SMIL_T2	0	0	0	0	0	0	-0.21	-0.2	1	1	0	300	300	0
8/27/2024 16:14	44203	POIN_T2	140	1351	1211	0.95	0	-0.95	-0.74	-0.14	2	2	0	2100	2100	0
8/27/2024 16:14	44202	POIN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 16:14	43104	SMIL_T2	0	0	0	0	0	0	-0.21	-0.2	1	1	0	300	300	0
8/27/2024 16:14	43108	SMIL_T2	2	1	-1	1.05	0	-1.05	0	0	0	0	0	0	0	0
8/27/2024 16:14	60101	COCA_T1	0	0	0	0	0	0	-0.04	-0.06	2	2	0	2400	2400	0
8/27/2024 16:14	43101	SMIL_T2	2	3	1	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/27/2024 16:14	61304	EARL_T1	0	0	0	0	0	0	-0.78	-0.73	1	1	0	600	600	0
8/27/2024 16:14	61303	EARL_T1	3	5	2	0.9	0.53	-0.37	0	0	0	0	0	0	0	0
8/27/2024 16:17	61701	ELIZ_T1	35	97	62	0.36	0.24	-0.12	2.3	2.18	0	0	0	0	0	0
8/27/2024 16:17	61703	ELIZ_T1	23	89	66	0.29	0.39	0.1	0	0	0	0	0	0	0	0
8/27/2024 16:18	51401	LYKE_T1	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
8/27/2024 16:19	12302	LANA_T2	0	0	0	0	0	0	-1.59	-1.58	3	3	0	2700	2700	0
8/27/2024 16:19	12305	LANA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 16:19	12304	LANA_T2	29	37	8	0.77	0.46	-0.31	0	0	0	0	0	0	0	0
8/27/2024 16:19	12301	LANA_T2	3	1	-2	0.57	0	-0.57	0	0	0	0	0	0	0	0
8/27/2024 16:22	65205	PRIN_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
8/27/2024 16:26	15001	BLMO_T1	8	14	6	0.49	0.59	0.1	0	0	0	0	0	0	0	0
8/27/2024 16:28	20601	GRWO_T2	94	88	-6	0.68	0.54	-0.14	0	0	0	0	0	0	0	0
8/27/2024 16:28	20603	GRWO_T2	0	0	0	0	0	0	-0.24	-0.22	1	1	0	900	900	0
8/27/2024 16:32	45901	AUBU_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
8/27/2024 16:32	64101	REFR_T1	4	10	6	0.63	0.73	0.1	0.11	0.11	0	0	0	0	0	0
8/27/2024 16:32	45902	AUBU_T1	1	1	0	0	0.3	0.3	0	0	0	0	0	0	0	0
8/27/2024 16:35	65602	QVIL_T2	2	3	1	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
8/27/2024 16:35	65604	QVIL_T2	9	3	-6	0.64	1.5	0.86	0	0	0	0	0	0	0	0
8/27/2024 16:35	65603	QVIL_T2	0	0	0	0	0	0	-0.53	-0.84	0	0	0	0	0	0
8/27/2024 16:35	65601	QVIL_T2	33	16	-17	0.42	0.24	-0.18	0	0	0	0	0	0	0	0
8/27/2024 16:36	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 16:37	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 16:39	54501	ENOL_T2	0	0	0	0	0	0	-0.75	-0.74	2	2	0	1500	1500	0
8/27/2024 16:39	54503	ENOL_T2	1	4	3	0.2	0.47	0.27	0	0	0	0	0	0	0	0
8/27/2024 16:40	20401	ASHF_T2	5	12	7	2.24	1.38	-0.86	0	0	0	0	0	0	0	0
8/27/2024 16:40	54503	ENOL_T2	1	4	3	0.2	0.47	0.27	0	0	0	0	0	0	0	0
8/27/2024 16:40	20403	ASHF_T2	0	12	12	0	0.13	0.13	1.34	1.41	0	0	0	0	0	0
8/27/2024 16:40	20402	ASHF_T2	0	22	22	0	0.39	0.39	0	0	0	0	0	0	0	0
8/27/2024 16:40	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 16:41	54503	ENOL_T2	1	4	3	0.2	0.47	0.27	0	0	0	0	0	0	0	0
8/27/2024 16:41	54501	ENOL_T2	0	0	0	0	0	0	-0.75	-0.74	2	2	0	1500	1500	0
8/27/2024 16:42	15001	BLMO_T1	13	8	-5	0.61	0.4	-0.21	0	0	0	0	0	0	0	0
8/27/2024 16:45	52204	DEVO_T2	7	7	0	1.53	1.83	0.3	0	0	0	0	0	0	0	0
8/27/2024 16:45	52202	DEVO_T2	2	2	0	0.2	0.3	0.1	-1.65	-1.62	0	0	0	0	0	0
8/27/2024 16:45	64101	REFR_T1	9	4	-5	0.71	0.43	-0.28	0.11	0.1	0	0	0	0	0	0
8/27/2024 16:48	57505	LAWN_T3	1	0	-1	0.9	0	-0.9	0.5	0.51	0	0	0	0	0	0
8/27/2024 16:51	14404	SSLA_T1	95	135	40	0.85	0.81	-0.04	0	0	0	0	0	0	0	0
8/27/2024 16:51	15601	NSTR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 16:51	15602	NSTR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 16:51	14401	SSLA_T1	4	7	3	0.85	0.87	0.02	0	0	0	0	0	0	0	0
8/27/2024 16:51	14403	SSLA_T1	6	4	-2	0.62	0.75	0.13	0.78	0.8	0	0	0	0	0	0
8/27/2024 16:51	15603	NSTR_T2	0	0	0	0	0	0	-0.01	-0.06	0	0	0	0	0	0
8/27/2024 16:52	25801	SUTR_T2	3	5	2	4.97	8.1	3.13	-0.11	-0.1	0	0	0	0	0	0
8/27/2024 16:52	22903	HARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 16:52	22901	HARW_T1	6	13	7	0.9	0.18	-0.72	0	0	0	0	0	0	0	0
8/27/2024 16:52	22905	HARW_T1	0	18	18	0	0.5	0.5	0	0	0	0	0	0	0	0
8/27/2024 16:52	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 16:53	58202	NEWV_T1	1	2	1	0.4	0	-0.4	0.48	0.35	0	0	0	0	0	0
8/27/2024 16:53	58201	NEWV_T1	91	112	21	0.83	0.74	-0.09	0	0	0	0	0	0	0	0
8/27/2024 16:54	14403	SSLA_T1	6	4	-2	0.62	0.75	0.13	0.78	0.8	0	0	0	0	0	0
8/27/2024 16:54	14404	SSLA_T1	95	135	40	0.85	0.81	-0.04	0	0	0	0	0	0	0	0
8/27/2024 16:54	14401	SSLA_T1	4	7	3	0.85	0.87	0.02	0	0	0	0	0	0	0	0
8/27/2024 16:55	67804	WLAN_T1	10	10	0	1.36	1.25	-0.11	0	0	0	0	0	0	0	0
8/27/2024 16:55	13704	SCHN_T2	2	5	3	0.4	0.3	-0.1	0.27	0.05	0	0	0	0	0	0
8/27/2024 16:55	67801	WLAN_T1	14	37	23	0.61	0.57	-0.04	-0.39	-0.39	0	0	0	0	0	0
8/27/2024 16:58	51304	WIND_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
8/27/2024 17:01	12601	MACA_T1	1	4	3	0.3	0.33	0.03	1.55	1.55	0	0	0	0	0	0
8/27/2024 17:01	12603	MACA_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/27/2024 17:01	12606	MACA_T1	63	66	3	2.25	2.02	-0.23	0	0	0	0	0	0	0	0
8/27/2024 17:01	12602	MACA_T1	17	15	-2	1	0.39	-0.61	0	0	0	0	0	0	0	0
8/27/2024 17:04	64202	KINZ_T1	1	28	27	0.1	1	0.9	0	0	0	0	0	0	0	0
8/27/2024 17:04	64201	KINZ_T1	0	49	49	0	0	0	-1.25	-0.37	5	4	-1	3300	2100	-1200
8/27/2024 17:04	64203	KINZ_T1	1	4	3	1.1	0.57	-0.53	0	0	0	0	0	0	0	0
8/27/2024 17:04	64204	KINZ_T1	1	3	2	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
8/27/2024 17:07	12202	FOGE_T2	2	2	0	0.3	0.2	-0.1	0	0	1	1	0	600	600	0
8/27/2024 17:07	58401	MORO_T1	190	254	64	0.63	0.69	0.06	-1.93	-1.91	2	2	0	1500	1500	0
8/27/2024 17:07	58402	MORO_T1	12	23	11	1.29	1.39	0.1	0	0	0	0	0	0	0	0
8/27/2024 17:08	58402	MORO_T1	12	23	11	1.29	1.39	0.1	0	0	0	0	0	0	0	0
8/27/2024 17:08	58401	MORO_T1	190	254	64	0.63	0.69	0.06	-3.86	-3.81	4	4	0	3000	3000	0
8/27/2024 17:09	45302	WBER_T2	3	4	1	0.63	0.67	0.04	1.52	1.48	0	0	0	0	0	0
8/27/2024 17:11	45302	WBER_T2	3	4	1	0.63	0.67	0.04	1.52	1.48	0	0	0	0	0	0
8/27/2024 17:11	67801	WLAN_T1	25	40	15	0.5	0.45	-0.05	-0.39	-0.44	0	0	0	0	0	0
8/27/2024 17:11	67804	WLAN_T1	10	10	0	1.25	1.45	0.2	0	0	0	0	0	0	0	0
8/27/2024 17:14	61505	EPET_T1	0	0	0	0	0	0	0.75	0.81	0	0	0	0	0	0
8/27/2024 17:14	44301	BEAV_T2	15	84	69	0.48	0.66	0.18	0.09	0.12	1	1	0	600	600	0
8/27/2024 17:15	44301	BEAV_T2	46	87	41	0.64	0.8	0.16	0.09	0.12	1	1	0	600	600	0
8/27/2024 17:16	16006	DORN_T2	8	9	1	2.21	1.5	-0.71	0	0	0	0	0	0	0	0
8/27/2024 17:16	16002	DORN_T2	1	3	2	1.1	0.2	-0.9	0.22	0.18	1	1	0	1200	1200	0
8/27/2024 17:17	61302	EARL_T1	1	2	1	1.5	1.95	0.45	0	0	0	0	0	0	0	0
8/27/2024 17:17	61303	EARL_T1	0	1	1	0	0.2	0.2	0.24	0.25	0	0	0	0	0	0
8/27/2024 17:19	51004	NHAR_T1	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
8/27/2024 17:19	51003	NHAR_T1	0	0	0	0	0	0	-2.43	-2.49	1	1	0	1200	1200	0
8/27/2024 17:19	51002	NHAR_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 17:21	56501	ROCK_T2	3	5	2	0.67	0.63	-0.04	-2.61	-2.58	0	0	0	0	0	0
8/27/2024 17:21	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 17:21	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 17:22	46903	MNTG_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 17:22	46901	MNTG_T2	0	0	0	0	0	0	0.07	0.14	1	1	0	1200	1200	0
8/27/2024 17:25	56501	ROCK_T2	3	5	2	0.67	0.63	-0.04	-2.58	-2.62	0	0	0	0	0	0
8/27/2024 17:25	46903	MNTG_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 17:25	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 17:25	46901	MNTG_T2	0	0	0	0	0	0	0.07	0.14	1	1	0	1200	1200	0
8/27/2024 17:25	63401	HONY_T1	0	0	0	0	0	0	0.12	-0.08	1	1	0	600	600	0
8/27/2024 17:25	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 17:26	56501	ROCK_T2	3	5	2	0.67	0.63	-0.04	-1.29	-1.31	0	0	0	0	0	0
8/27/2024 17:26	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 17:26	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 17:27	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 17:27	40302	TAMA_T3	0	0	0	0	0	0	-0.88	-0.88	1	1	0	1200	1200	0
8/27/2024 17:27	40303	TAMA_T3	3	7	4	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/27/2024 17:28	61503	EPET_T1	0	0	0	0	0	0	0.22	0.29	0	0	0	0	0	0
8/27/2024 17:30	61503	EPET_T1	0	0	0	0	0	0	0.22	0.29	0	0	0	0	0	0
8/27/2024 17:43	45502	DERR_T2	10	26	16	0.53	0.49	-0.04	0	0	0	0	0	0	0	0
8/27/2024 17:43	45501	DERR_T2	12	52	40	0.46	0.41	-0.05	0.97	0.95	2	2	0	1800	1800	0
8/27/2024 17:45	45501	DERR_T2	50	43	-7	0.48	0.36	-0.12	0.97	0.95	2	2	0	1800	1800	0
8/27/2024 17:45	61704	ELIZ_T2	16	22	6	0.39	0.63	0.24	0	0	0	0	0	0	0	0
8/27/2024 17:45	45502	DERR_T2	25	14	-11	0.58	0.49	-0.09	0	0	0	0	0	0	0	0
8/27/2024 17:45	61702	ELIZ_T2	39	59	20	0.56	0.46	-0.1	-1.02	-1.01	2	2	0	1500	1500	0
8/27/2024 17:46	46501	LOHA_T1	24	23	-1	0.56	0.4	-0.16	0.32	0.31	1	1	0	1200	1200	0
8/27/2024 17:46	46504	LOHA_T1	8	3	-5	0.61	0	-0.61	0	0	0	0	0	0	0	0
8/27/2024 17:48	46504	LOHA_T1	8	3	-5	0.61	0	-0.61	0	0	0	0	0	0	0	0
8/27/2024 17:48	46501	LOHA_T1	24	23	-1	0.56	0.4	-0.16	0.32	0.31	1	1	0	1200	1200	0
8/27/2024 17:48	61704	ELIZ_T2	16	22	6	0.39	0.63	0.24	0	0	0	0	0	0	0	0
8/27/2024 17:48	61702	ELIZ_T2	39	59	20	0.56	0.46	-0.1	-1.02	-1.01	2	2	0	1500	1500	0
8/27/2024 17:55	52202	DEVO_T2	1	8	7	0.7	0.47	-0.23	-1.6	-1.61	0	0	0	0	0	0
8/27/2024 17:55	52204	DEVO_T2	8	6	-2	1.33	1.95	0.62	0	0	0	0	0	0	0	0
8/27/2024 17:56	57403	SPAN_T1	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
8/27/2024 17:56	57401	SPAN_T1	4	4	0	0.7	0.37	-0.33	0	0	0	0	0	0	0	0
8/27/2024 17:57	57401	SPAN_T1	4	4	0	0.7	0.37	-0.33	0	0	0	0	0	0	0	0
8/27/2024 17:57	61505	EPET_T1	0	0	0	0	0	0	0.87	0.83	0	0	0	0	0	0
8/27/2024 17:57	57403	SPAN_T1	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
8/27/2024 18:09	67002	STHI_T2	0	0	0	0	0	0	-0.68	-0.7	2	2	0	1200	1200	0
8/27/2024 18:09	61402	SLIT_T1	13	12	-1	0.62	0.7	0.08	0	0	0	0	0	0	0	0
8/27/2024 18:09	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 18:13	45901	AUBU_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
8/27/2024 18:13	45902	AUBU_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/27/2024 18:22	52002	LING_T2	7	9	2	0.86	0.38	-0.48	0	0	0	0	0	0	0	0
8/27/2024 18:22	52006	LING_T2	1	5	4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 18:22	52004	LING_T2	3	3	0	3.37	3.3	-0.07	0.39	0.34	0	0	0	0	0	0
8/27/2024 18:25	53802	MBRG_T2	4	3	-1	0.43	0.27	-0.16	0.42	0.51	0	0	0	0	0	0
8/27/2024 18:27	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 18:27	40502	CRES_T2	5	2	-3	0.2	0.2	0	-0.88	-0.92	0	0	0	0	0	0
8/27/2024 18:28	51604	DUKE_T2	1	0	-1	1	0	-1	-0.22	-0.24	0	0	0	0	0	0
8/27/2024 18:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 18:28	40502	CRES_T2	5	2	-3	0.2	0.2	0	-1.77	-1.83	0	0	0	0	0	0
8/27/2024 18:30	57505	LAWN_T3	0	0	0	0	0	0	0.52	0.47	0	0	0	0	0	0
8/27/2024 18:31	40502	CRES_T2	2	3	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
8/27/2024 18:31	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 18:33	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 18:33	40502	CRES_T2	2	3	1	0.2	0.23	0.03	-0.88	-0.92	0	0	0	0	0	0
8/27/2024 18:35	13201	PALM_T1	8	7	-1	1.15	2.33	1.18	-1.23	-1.26	1	1	0	1200	1200	0
8/27/2024 18:35	54202	PENN_T2	0	0	0	0	0	0	-1.5	-1.51	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/27/2024 18:35	52503	PROG_T2	0	0	0	0	0	0	0.24	0.2	1	1	0	900	900	0
8/27/2024 18:35	46101	MACI_T2	0	0	0	0	0	0	-0.51	-0.48	1	1	0	1200	1200	0
8/27/2024 18:36	44905	SCOT_T1	31	13	-18	0.59	1.13	0.54	0	0	0	0	0	0	0	0
8/27/2024 18:36	44903	SCOT_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/27/2024 18:39	52503	PROG_T2	0	0	0	0	0	0	0.2	0.2	1	1	0	900	900	0
8/27/2024 18:40	66504	SMAN_T2	5	9	4	0.42	0.4	-0.02	-0.01	-0.09	1	1	0	1200	1200	0
8/27/2024 18:40	66503	SMAN_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
8/27/2024 18:40	66505	SMAN_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/27/2024 18:41	59201	THOM_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/27/2024 18:41	59202	THOM_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 18:43	10805	CHHI_T2	102	88	-14	0.82	0.89	0.07	-0.83	-0.8	2	2	0	1800	1800	0
8/27/2024 18:44	59201	THOM_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/27/2024 18:44	59202	THOM_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 18:45	24701	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 18:45	24702	FLND_T2	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
8/27/2024 18:46	10701	CATA_T2	4	4	0	1.53	0.7	-0.83	-0.04	-0.03	0	0	0	0	0	0
8/27/2024 18:49	64203	KINZ_T1	0	2	2	0	0	0	-1.24	-1.23	3	3	0	2100	2100	0
8/27/2024 18:49	64202	KINZ_T1	18	8	-10	0.4	0.32	-0.08	0	0	0	0	0	0	0	0
8/27/2024 18:49	64204	KINZ_T1	1	2	1	1.1	1.2	0.1	0	0	0	0	0	0	0	0
8/27/2024 18:50	47401	PENS_T1	3	5	2	0.63	0.74	0.11	1	0.94	0	0	0	0	0	0
8/27/2024 18:50	47402	PENS_T1	4	1	-3	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/27/2024 18:53	57004	WHHI_T2	0	0	0	0	0	0	-0.51	-0.56	0	0	0	0	0	0
8/27/2024 18:57	10701	CATA_T2	4	4	0	1.53	0.7	-0.83	0	0	0	0	0	0	0	0
8/27/2024 18:57	10705	CATA_T2	0	0	0	0	0	0	-1.16	-1.19	1	1	0	900	900	0
8/27/2024 18:59	10805	CHHI_T2	57	87	30	0.92	0.74	-0.18	-0.8	-0.82	2	2	0	1800	1800	0
8/27/2024 19:01	52204	DEVO_T2	6	6	0	1.48	0.96	-0.52	0	0	0	0	0	0	0	0
8/27/2024 19:01	10703	CATA_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
8/27/2024 19:01	10701	CATA_T2	1	4	3	0.7	0.98	0.28	0	0	0	0	0	0	0	0
8/27/2024 19:01	52202	DEVO_T2	1	0	-1	1.7	0	-1.7	-1.63	-1.62	0	0	0	0	0	0
8/27/2024 19:03	63501	HEID_TBK1-2	57	56	-1	3.65	3.27	-0.38	0.54	0.44	1	1	0	900	900	0
8/27/2024 19:13	45502	DERR_T2	17	6	-11	0.37	0.5	0.13	-0.43	-0.43	0	0	0	0	0	0
8/27/2024 19:13	45501	DERR_T2	27	16	-11	0.46	0.36	-0.1	0	0	0	0	0	0	0	0
8/27/2024 19:18	64403	LAND_T1	0	0	0	0	0	0	-1	-1.06	1	1	0	900	900	0
8/27/2024 19:26	64403	LAND_T1	0	0	0	0	0	0	-1.06	-1.14	1	1	0	900	900	0
8/27/2024 20:03	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 20:18	25503	MADI_T1	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
8/27/2024 20:19	45701	LIND_T2	0	0	0	0	0	0	-1.19	-1.21	0	0	0	0	0	0
8/27/2024 20:19	45702	LIND_T2	0	0	0	0	0	0	-1.3	-1.27	0	0	0	0	0	0
8/27/2024 20:21	45702	LIND_T2	0	0	0	0	0	0	-1.27	-1.27	0	0	0	0	0	0
8/27/2024 20:35	42302	MOWR_T2	0	0	0	0	0	0	1.16	0.79	0	0	0	0	0	0
8/27/2024 20:37	13104	NHAM_T1	16	16	0	1.59	1.78	0.19	0	0	0	0	0	0	0	0
8/27/2024 20:37	13101	NHAM_T1	1	0	-1	1	0	-1	-2.42	-2.5	4	4	0	4200	4200	0
8/27/2024 20:53	42201	SHEN_T2	0	1	1	0	0	0	0.83	0.81	2	2	0	1200	1200	0
8/27/2024 20:54	42201	SHEN_T2	0	1	1	0	0	0	0.41	0.4	1	1	0	600	600	0
8/27/2024 21:01	13503	MCMI_T2	15	75	60	0.15	0.32	0.17	-0.63	-0.67	0	0	0	0	0	0
8/27/2024 21:19	50103	HARR_T3	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
8/27/2024 21:19	50107	HARR_T3	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
8/27/2024 21:19	50105	HARR_T3	6	7	1	7.7	7.52	-0.18	0	0	0	0	0	0	0	0
8/27/2024 21:19	25603	ARRO_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
8/27/2024 21:26	24201	PROV_T3	2	1	-1	3.7	6.7	3	-0.85	-0.84	1	1	0	1200	1200	0
8/27/2024 21:26	24205	PROV_T3	1	5	4	0.1	0.13	0.03	0	0	0	0	0	0	0	0
8/27/2024 21:26	24204	PROV_T3	1	1	0	6.1	5.8	-0.3	0	0	0	0	0	0	0	0
8/27/2024 21:32	12402	MILF_T1	2	3	1	0.35	0.7	0.35	0.97	0.96	0	0	0	0	0	0
8/27/2024 21:32	61701	ELIZ_T1	1	1	0	1	1	0	1.89	1.78	0	0	0	0	0	0
8/27/2024 21:33	24801	VALM_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
8/27/2024 21:34	16102	BING_T2	8	14	6	0.23	0.26	0.03	0	0	0	0	0	0	0	0
8/27/2024 21:34	16101	BING_T2	0	0	0	0	0	0	0.92	0.95	0	0	0	0	0	0
8/27/2024 21:35	15603	NSTR_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
8/27/2024 21:35	64902	MILL_T2	0	0	0	0	0	0	-0.02	-0.04	1	1	0	900	900	0
8/27/2024 21:35	26401	INOR_T1	1	1	0	4.9	5	0.1	0.69	0.68	0	0	0	0	0	0
8/27/2024 21:35	61303	EARL_T1	0	0	0	0	0	0	0.59	0.52	0	0	0	0	0	0
8/27/2024 21:35	26402	INOR_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/27/2024 21:36	42002	MNVL_T2	1	1	0	1.8	1.3	-0.5	0	0	0	0	0	0	0	0
8/27/2024 21:36	16401	MOPO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:36	16402	MOPO_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
8/27/2024 21:36	42001	MNVL_T2	41	97	56	0.37	0.43	0.06	0.36	0.29	0	0	0	0	0	0
8/27/2024 21:36	10805	CHHI_T2	9	1	-8	1.54	8.8	7.26	-0.4	-0.44	1	1	0	600	600	0
8/27/2024 21:37	65604	QVIL_T2	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
8/27/2024 21:37	23202	HIRU_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
8/27/2024 21:37	16102	BING_T2	8	14	6	0.23	0.26	0.03	-0.49	-0.5	1	1	0	1200	1200	0
8/27/2024 21:38	67503	WEWI_T2	1	1	0	4.5	5.1	0.6	0.49	0.47	0	0	0	0	0	0
8/27/2024 21:38	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/27/2024 21:38	61701	ELIZ_T1	1	1	0	1	1	0	1.78	1.56	0	0	0	0	0	0
8/27/2024 21:38	25402	LANA_T2	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
8/27/2024 21:39	10701	CATA_T2	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
8/27/2024 21:39	29402	BELT_T1	1	1	0	8.1	8.7	0.6	0	0	0	0	0	0	0	0
8/27/2024 21:39	12302	LANA_T2	0	0	0	0	0	0	-2.13	-2.14	3	3	0	2700	2700	0
8/27/2024 21:39	61702	ELIZ_T2	0	0	0	0	0	0	-1.41	-1.44	2	2	0	1500	1500	0
8/27/2024 21:39	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/27/2024 21:39	10705	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:40	44201	POIN_T1	0	0	0	0	0	0	-1.32	-1.31	2	2	0	2100	2100	0
8/27/2024 21:40	20601	GRWO_T2	53	52	-1	0.32	0.33	0.01	0.98	0.93	0	0	0	0	0	0
8/27/2024 21:40	52202	DEVO_T2	1	1	0	1.5	0.4	-1.1	-1.98	-0.71	0	0	0	0	0	0
8/27/2024 21:40	67603	WARW_T1	0	0	0	0	0	0	0.34	0.28	0	0	0	0	0	0
8/27/2024 21:40	29402	BELT_T1	1	1	0	8.1	8.7	0.6	0	0	0	0	0	0	0	0
8/27/2024 21:40	67605	WARW_T1	3	3	0	0.93	1.13	0.2	0	0	0	0	0	0	0	0
8/27/2024 21:40	61102	BERK_T5	0	0	0	0	0	0	0.67	0.69	1	1	0	300	300	0
8/27/2024 21:40	11507	FREE_T2	6	177	171	0.4	0.6	0.2	0.41	1.62	1	1	0	600	600	0
8/27/2024 21:40	48301	ORWI_T1	2	2	0	4	4.1	0.1	-0.33	-0.35	2	2	0	1800	1800	0
8/27/2024 21:40	52204	DEVO_T2	2	4	2	0.25	0.73	0.48	0	0	0	0	0	0	0	0
8/27/2024 21:40	13503	MCMI_T2	71	46	-25	0.32	0.28	-0.04	-0.68	-0.71	0	0	0	0	0	0
8/27/2024 21:40	65002	NEFF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:40	65004	NEFF_T2	0	0	0	0	0	0	-0.45	-0.47	1	1	0	600	600	0
8/27/2024 21:41	67605	WARW_T1	3	3	0	0.93	1.13	0.2	-0.79	-0.84	0	0	0	0	0	0
8/27/2024 21:41	63403	HONY_T2	0	0	0	0	0	0	-1.29	-1.31	1	1	0	600	600	0
8/27/2024 21:41	10805	CHHI_T2	9	1	-8	1.54	8.8	7.26	-0.4	-0.44	1	1	0	600	600	0
8/27/2024 21:41	45902	AUBU_T1	0	0	0	0	0	0	-0.77	-0.7	1	1	0	600	600	0
8/27/2024 21:41	29402	BELT_T1	1	1	0	8.1	8.7	0.6	0	0	0	0	0	0	0	0
8/27/2024 21:41	51304	WIND_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
8/27/2024 21:41	54201	PENN_T1	11	21	10	0.63	0.54	-0.09	-1.74	-1.74	0	0	0	0	0	0
8/27/2024 21:41	66703	STRA_T1	0	0	0	0	0	0	-0.43	-0.55	0	0	0	0	0	0
8/27/2024 21:41	22002	BOHE_T1	0	0	0	0	0	0	-0.78	-0.83	0	0	0	0	0	0
8/27/2024 21:41	54203	PENN_T1	7	6	-1	0.93	1.22	0.29	0	0	0	0	0	0	0	0
8/27/2024 21:41	16302	ALPA_T2	0	0	0	0	0	0	-0.18	-0.23	0	0	0	0	0	0
8/27/2024 21:42	47001	HUGH_T2	3	4	1	6.87	5.95	-0.92	-1.17	-1.27	1	1	0	900	900	0
8/27/2024 21:42	10805	CHHI_T2	9	1	-8	1.54	8.8	7.26	-0.4	-0.44	1	1	0	600	600	0
8/27/2024 21:42	66701	STRA_T1	0	0	0	0	0	0	0.48	0.45	1	1	0	600	600	0
8/27/2024 21:42	48302	ORWI_T2	2	2	0	0.3	0.4	0.1	-0.38	-0.4	0	0	0	0	0	0
8/27/2024 21:42	16402	MOPO_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
8/27/2024 21:42	16103	BING_T2	0	0	0	0	0	0	-1.96	-2.04	1	1	0	900	900	0
8/27/2024 21:42	65002	NEFF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:42	52202	DEVO_T2	1	1	0	1.5	0.4	-1.1	-1.98	-0.71	0	0	0	0	0	0
8/27/2024 21:42	67602	WARW_T2	0	0	0	0	0	0	0.2	0.64	1	1	0	300	300	0
8/27/2024 21:42	52204	DEVO_T2	2	4	2	0.25	0.73	0.48	0	0	0	0	0	0	0	0
8/27/2024 21:42	42601	TUSC_T1	0	0	0	0	0	0	0.01	0.02	2	2	0	1800	1800	0
8/27/2024 21:42	43105	SMIL_T2	1	12	11	0.1	0.21	0.11	0	0	0	0	0	0	0	0
8/27/2024 21:42	50701	SMEC_T1	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
8/27/2024 21:42	43103	SMIL_T2	0	0	0	0	0	0	-0.33	-0.43	0	0	0	0	0	0
8/27/2024 21:42	65001	NEFF_T2	0	0	0	0	0	0	-0.14	-0.13	1	1	0	1200	1200	0
8/27/2024 21:42	61701	ELIZ_T1	1	1	0	1	1	0	1.78	1.56	0	0	0	0	0	0
8/27/2024 21:42	48901	FOSP_T2	0	0	0	0	0	0	-0.34	-0.33	1	1	0	600	600	0
8/27/2024 21:42	16401	MOPO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:42	64202	KINZ_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/27/2024 21:42	61505	EPET_T1	0	0	0	0	0	0	1.28	1.23	0	0	0	0	0	0
8/27/2024 21:42	64201	KINZ_T1	0	0	0	0	0	0	-2.66	-2.85	12	12	0	6300	6300	0
8/27/2024 21:42	16102	BING_T2	8	14	6	0.23	0.26	0.03	0	0	0	0	0	0	0	0
8/27/2024 21:42	52004	LING_T2	2	2	0	5.3	5.05	-0.25	0.12	0.08	0	0	0	0	0	0
8/27/2024 21:42	45902	AUBU_T1	0	0	0	0	0	0	-0.77	-0.7	1	1	0	600	600	0
8/27/2024 21:42	43102	SMIL_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
8/27/2024 21:42	45901	AUBU_T1	0	0	0	0	0	0	1.68	1.79	0	0	0	0	0	0
8/27/2024 21:42	47002	HUGH_T2	2	2	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/27/2024 21:42	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
8/27/2024 21:43	60101	COCA_T1	0	0	0	0	0	0	-0.38	-0.44	1	1	0	1200	1200	0
8/27/2024 21:43	61301	EARL_T1	0	0	0	0	0	0	-0.97	-0.99	2	2	0	1800	1800	0
8/27/2024 21:43	46001	BERW_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
8/27/2024 21:43	44802	EDAN_T2	0	0	0	0	0	0	-0.48	-0.52	0	0	0	0	0	0
8/27/2024 21:43	14403	SSLA_T1	0	1	1	0	0	0	-0.03	-0.12	0	0	0	0	0	0
8/27/2024 21:43	20603	GRWO_T2	0	0	0	0	0	0	-0.39	-0.41	1	1	0	900	900	0
8/27/2024 21:43	61102	BERK_T5	0	0	0	0	0	0	0.67	0.69	1	1	0	300	300	0
8/27/2024 21:43	15703	TANN_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
8/27/2024 21:43	40601	PIGR_T1	11	15	4	0.15	0.17	0.02	0	0	0	0	0	0	0	0
8/27/2024 21:43	66505	SMAN_T2	2	3	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
8/27/2024 21:43	44801	EDAN_T2	1	4	3	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
8/27/2024 21:43	45901	AUBU_T1	0	0	0	0	0	0	1.68	1.79	0	0	0	0	0	0
8/27/2024 21:43	48901	FOSP_T2	0	0	0	0	0	0	-0.34	-0.33	1	1	0	600	600	0
8/27/2024 21:43	11104	EGYP_T1	0	1	1	0	0	0	0.65	0.62	0	0	0	0	0	0
8/27/2024 21:43	66504	SMAN_T2	0	0	0	0	0	0	-1.2	-1.35	2	2	0	2400	2400	0
8/27/2024 21:43	67505	WEWI_T1	0	0	0	0	0	0	0.57	0.55	1	1	0	900	900	0
8/27/2024 21:43	11102	EGYP_T1	1	2	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
8/27/2024 21:43	46203	DANV_T2	1	2	1	5.8	5.2	-0.6	-0.17	-0.16	0	0	0	0	0	0
8/27/2024 21:43	40602	PIGR_T1	0	0	0	0	0	0	-0.37	-0.47	0	0	0	0	0	0
8/27/2024 21:43	48302	ORWI_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/27/2024 21:43	46206	DANV_T2	3	1	-2	0.93	1.2	0.27	0	0	0	0	0	0	0	0
8/27/2024 21:43	48301	ORWI_T1	2	2	0	4	4.1	0.1	-0.16	-0.17	1	1	0	900	900	0
8/27/2024 21:43	23001	SAJO_T1	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
8/27/2024 21:43	15702	TANN_T2	0	1	1	0	0	0	-0.14	-0.09	0	0	0	0	0	0
8/27/2024 21:43	20601	GRWO_T2	53	52	-1	0.32	0.33	0.01	0	0	0	0	0	0	0	0
8/27/2024 21:43	16203	POPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:44	40302	TAMA_T3	0	1	1	0	0.2	0.2	-1.01	-1.01	1	1	0	1200	1200	0
8/27/2024 21:44	16302	ALPA_T2	0	0	0	0	0	0	-0.35	-0.46	0	0	0	0	0	0
8/27/2024 21:44	48302	ORWI_T2	2	2	0	0.3	0.4	0.1	-0.38	-0.4	0	0	0	0	0	0
8/27/2024 21:44	61802	EELI_T2	8	8	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/27/2024 21:44	61303	EARL_T1	0	0	0	0	0	0	0.52	0.8	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/27/2024 21:44	20601	GRWO_T2	53	52	-1	0.32	0.33	0.01	0.98	0.93	0	0	0	0	0	0
8/27/2024 21:44	46101	MACI_T2	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
8/27/2024 21:44	48902	FOSP_T2	0	0	0	0	0	0	0.44	0.36	0	0	0	0	0	0
8/27/2024 21:44	24105	EHAZ_T1	4	4	0	5.93	5.93	0	0	0	0	0	0	0	0	0
8/27/2024 21:44	45303	WBER_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 21:44	14802	TREI_T2	0	0	0	0	0	0	0.87	0.83	0	0	0	0	0	0
8/27/2024 21:44	64201	KINZ_T1	0	0	0	0	0	0	-0.89	-0.95	4	4	0	2100	2100	0
8/27/2024 21:44	45302	WBER_T2	0	0	0	0	0	0	1.27	1.23	0	0	0	0	0	0
8/27/2024 21:44	51401	LYKE_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
8/27/2024 21:44	23401	HONE_T2	0	0	0	0	0	0	0.36	0.29	0	0	0	0	0	0
8/27/2024 21:44	66505	SMAN_T2	2	3	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
8/27/2024 21:44	12807	MICK_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/27/2024 21:44	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:44	47101	MARL_T1	24	21	-3	0.9	0.48	-0.42	-0.31	-0.32	0	0	0	0	0	0
8/27/2024 21:44	60101	COCA_T1	0	0	0	0	0	0	-0.38	-0.44	1	1	0	1200	1200	0
8/27/2024 21:44	46903	MNTG_T2	0	0	0	0	0	0	0.34	0.3	1	1	0	600	600	0
8/27/2024 21:44	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
8/27/2024 21:44	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:44	63403	HONY_T2	0	0	0	0	0	0	-1.29	-1.31	1	1	0	600	600	0
8/27/2024 21:44	52002	LING_T2	0	0	0	0	0	0	-0.12	0.67	1	0	-1	900	0	-900
8/27/2024 21:44	45902	AUBU_T1	0	0	0	0	0	0	-1.54	-1.39	2	2	0	1200	1200	0
8/27/2024 21:44	64202	KINZ_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/27/2024 21:44	61801	EELI_T2	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
8/27/2024 21:44	20401	ASHF_T2	3	1	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/27/2024 21:44	14801	TREI_T2	1	1	0	1.4	1.6	0.2	0.3	0.19	0	0	0	0	0	0
8/27/2024 21:44	10801	CHHI_T1	0	0	0	0	0	0	-1.46	-1.47	3	3	0	2100	2100	0
8/27/2024 21:44	11504	FREE_T1	0	0	0	0	0	0	-2	-1.87	2	2	0	2100	2100	0
8/27/2024 21:44	52503	PROG_T2	0	0	0	0	0	0	-0.13	-0.14	1	1	0	900	900	0
8/27/2024 21:44	67002	STHI_T2	0	0	0	0	0	0	-0.72	-0.73	1	1	0	600	600	0
8/27/2024 21:44	66703	STRA_T1	0	0	0	0	0	0	-0.43	-0.55	0	0	0	0	0	0
8/27/2024 21:44	53501	EVIL_T2	1	1	0	0.3	1.1	0.8	-0.01	-0.01	2	2	0	1200	1200	0
8/27/2024 21:44	60502	NMAN_T2	0	1	1	0	0	0	0.61	0.55	0	0	0	0	0	0
8/27/2024 21:44	12801	MICK_T1	0	0	0	0	0	0	-0.72	-0.74	1	1	0	600	600	0
8/27/2024 21:44	52004	LING_T2	2	2	0	5.3	5.05	-0.25	0	0	0	0	0	0	0	0
8/27/2024 21:44	41602	CLEV_T1	1	1	0	0.9	0	-0.9	0	0	1	1	0	600	600	0
8/27/2024 21:44	24101	EHAZ_T1	12	20	8	0.51	0.33	-0.18	0	0	0	0	0	0	0	0
8/27/2024 21:44	24102	EHAZ_T1	4	3	-1	0.7	0.35	-0.35	0.69	0.57	0	0	0	0	0	0
8/27/2024 21:44	20403	ASHF_T2	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
8/27/2024 21:44	45501	DERR_T2	0	0	0	0	0	0	0.39	0.24	2	2	0	1800	1800	0
8/27/2024 21:45	67503	WEMI_T2	1	1	0	4.9	5.4	0.5	0.49	0.47	0	0	0	0	0	0
8/27/2024 21:45	55002	NEWP_T1	2	2	0	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
8/27/2024 21:45	64403	LAND_T1	0	0	0	0	0	0	-1.16	-1.11	1	1	0	900	900	0
8/27/2024 21:45	60101	COCA_T1	0	0	0	0	0	0	-0.76	-0.88	2	2	0	2400	2400	0
8/27/2024 21:45	53903	HALI_T2	2	2	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
8/27/2024 21:45	26402	INOR_T1	0	0	0	0	0	0	-1.7	-1.71	1	1	0	600	600	0
8/27/2024 21:45	52204	DEVO_T2	4	6	2	0.83	0.63	-0.2	0	0	0	0	0	0	0	0
8/27/2024 21:45	48901	FOSP_T2	0	0	0	0	0	0	-0.34	-0.33	1	1	0	600	600	0
8/27/2024 21:45	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:45	55001	NEWP_T1	0	0	0	0	0	0	-0.71	-0.78	2	2	0	1200	1200	0
8/27/2024 21:45	13702	SCHN_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
8/27/2024 21:45	45501	DERR_T2	0	0	0	0	0	0	0.39	0.24	2	2	0	1800	1800	0
8/27/2024 21:45	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:45	67605	WARW_T1	3	3	0	1.13	1	-0.13	-0.79	-0.84	0	0	0	0	0	0
8/27/2024 21:45	66505	SMAN_T2	3	2	-1	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
8/27/2024 21:45	64602	LEOL_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
8/27/2024 21:45	53902	HALI_T2	1	1	0	4	4.3	0.3	-0.52	-0.54	0	0	0	0	0	0
8/27/2024 21:45	26401	INOR_T1	1	1	0	4.7	5.5	0.8	0	0	0	0	0	0	0	0
8/27/2024 21:45	55101	WERT_T1	0	0	0	0	0	0	-2.41	-2.47	4	4	0	3300	3300	0
8/27/2024 21:45	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:45	53901	HALI_T2	0	0	0	0	0	0	-1.78	-1.81	0	0	0	0	0	0
8/27/2024 21:45	46206	DANV_T2	1	1	0	1.4	1	-0.4	2.13	2.09	2	2	0	2100	2100	0
8/27/2024 21:45	20403	ASHF_T2	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
8/27/2024 21:45	43103	SMIL_T2	0	0	0	0	0	0	-0.66	-0.86	0	0	0	0	0	0
8/27/2024 21:45	43102	SMIL_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
8/27/2024 21:45	43105	SMIL_T2	4	11	7	0.13	0.22	0.09	0	0	0	0	0	0	0	0
8/27/2024 21:45	52202	DEVO_T2	1	1	0	0.4	0	-0.4	-1.98	-0.71	0	0	0	0	0	0
8/27/2024 21:45	46203	DANV_T2	2	1	-1	2.55	5.5	2.95	0	0	0	0	0	0	0	0
8/27/2024 21:45	20401	ASHF_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 21:45	66504	SMAN_T2	0	0	0	0	0	0	-0.6	-0.68	1	1	0	1200	1200	0
8/27/2024 21:45	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 21:45	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:45	42902	MIDD_T2	0	0	0	0	0	0	-0.64	-0.65	1	1	0	600	600	0
8/27/2024 21:45	13201	PALM_T1	0	0	0	0	0	0	-1.4	-1.43	1	1	0	1200	1200	0
8/27/2024 21:46	53903	HALI_T2	2	2	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
8/27/2024 21:46	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/27/2024 21:46	63203	MGTN_T1	0	0	0	0	0	0	-0.61	-0.67	2	2	0	1200	1200	0
8/27/2024 21:46	53902	HALI_T2	1	1	0	4	4.3	0.3	-0.52	-0.54	0	0	0	0	0	0
8/27/2024 21:46	61802	EELI_T2	8	7	-1	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
8/27/2024 21:46	22805	HAUT_T2	0	0	0	0	0	0	-1.33	-1.35	1	1	0	1200	1200	0
8/27/2024 21:46	14706	TREX_T1	0	0	0	0	0	0	-0.02	0.05	2	2	0	2100	2100	0
8/27/2024 21:46	61102	BERK_T5	0	0	0	0	0	0	0.67	0.69	1	1	0	300	300	0
8/27/2024 21:46	46206	DANV_T2	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
8/27/2024 21:46	40101	HUNT_T2	1	1	0	0.2	0.4	0.2	-1.4	-1.4	0	0	0	0	0	0
8/27/2024 21:46	16103	BING_T2	0	0	0	0	0	0	-1.96	-2.04	1	1	0	900	900	0
8/27/2024 21:46	46203	DANV_T2	2	1	-1	2.55	5.5	2.95	-0.17	-0.16	0	0	0	0	0	0
8/27/2024 21:46	16102	BING_T2	13	12	-1	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
8/27/2024 21:46	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:46	15703	TANN_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
8/27/2024 21:46	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/27/2024 21:46	14705	TREX_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:46	63501	HEID_TBX1-2	55	55	0	2.41	2.28	-0.13	0.18	0.08	1	1	0	900	900	0
8/27/2024 21:46	15702	TANN_T2	1	0	-1	0.4	0	-0.4	-0.14	-0.09	0	0	0	0	0	0
8/27/2024 21:46	54501	ENOL_T2	0	0	0	0	0	0	0.01	-0.01	1	1	0	600	600	0
8/27/2024 21:46	58102	NEKI_T1	1	1	0	1.1	0.6	-0.5	-1.21	-1.28	1	1	0	1200	1200	0
8/27/2024 21:46	39601	LNFD_T1	2	7	5	0.45	0.18	-0.27	0	0	0	0	0	0	0	0
8/27/2024 21:46	61801	EELI_T2	2	1	-1	0.45	0.4	-0.05	-0.24	-0.27	1	1	0	600	600	0
8/27/2024 21:46	66901	SHIL_T2	0	0	0	0	0	0	-1.9	-1.94	1	1	0	1200	1200	0
8/27/2024 21:46	25801	SUTR_T2	2	2	0	9.1	9.35	0.25	0.29	0.25	0	0	0	0	0	0
8/27/2024 21:46	64202	KINZ_T1	1	1	0	0.1	0.1	0	1.23	1.19	0	0	0	0	0	0
8/27/2024 21:46	66703	STRA_T1	0	0	0	0	0	0	-0.43	-0.55	0	0	0	0	0	0
8/27/2024 21:46	48902	FOSP_T2	0	0	0	0	0	0	0.44	0.36	0	0	0	0	0	0
8/27/2024 21:46	52002	LING_T2	0	0	0	0	0	0	-0.12	0.67	1	0	-1	900	0	-900
8/27/2024 21:46	10805	CHHI_T2	1	1	0	9	8.8	-0.2	-0.4	-0.44	1	1	0	600	600	0
8/27/2024 21:46	52004	LING_T2	2	2	0	5.05	4.75	-0.3	0	0	0	0	0	0	0	0
8/27/2024 21:46	64204	KINZ_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
8/27/2024 21:47	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:47	40101	HUNT_T2	1	1	0	0.2	0.4	0.2	-1.4	-1.4	0	0	0	0	0	0
8/27/2024 21:47	55001	NEWP_T1	0	0	0	0	0	0	-0.36	-0.39	1	1	0	600	600	0
8/27/2024 21:47	58701	ROSE_T2	0	0	0	0	0	0	-0.84	-0.87	1	1	0	600	600	0
8/27/2024 21:47	46506	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 21:47	46501	LOHA_T1	1	1	0	3.1	0.1	-3	0.34	0.3	1	1	0	1200	1200	0
8/27/2024 21:47	64101	REFR_T1	0	0	0	0	0	0	-0.42	-0.57	0	0	0	0	0	0
8/27/2024 21:47	61102	BERK_T5	0	0	0	0	0	0	0.67	0.69	1	1	0	300	300	0
8/27/2024 21:47	52004	LING_T2	2	2	0	5.05	4.75	-0.3	0.12	0.08	0	0	0	0	0	0
8/27/2024 21:47	15702	TANN_T2	1	0	-1	0.4	0	-0.4	-0.14	-0.09	0	0	0	0	0	0
8/27/2024 21:47	45801	HEGI_T1	0	0	0	0	0	0	0.28	0.24	1	1	0	900	900	0
8/27/2024 21:47	51002	NHAR_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/27/2024 21:47	61303	EARL_T1	0	0	0	0	0	0	0.52	0.8	0	0	0	0	0	0
8/27/2024 21:47	53902	HALI_T2	1	1	0	4	4.3	0.3	-0.52	-0.54	0	0	0	0	0	0
8/27/2024 21:47	67605	WARW_T1	3	3	0	1.13	1	-0.13	-0.79	-0.84	0	0	0	0	0	0
8/27/2024 21:47	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 21:47	58705	ROSE_T2	5	5	0	1.1	1.1	0	0	0	0	0	0	0	0	0
8/27/2024 21:47	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:47	64301	LINC_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
8/27/2024 21:47	57403	SPAN_T1	0	7	7	0	0.2	0.2	0.51	0.49	0	0	0	0	0	0
8/27/2024 21:47	53901	HALI_T2	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
8/27/2024 21:47	11102	EGYP_T1	2	2	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
8/27/2024 21:47	10801	CHHI_T1	0	0	0	0	0	0	-1.46	-1.47	3	3	0	2100	2100	0
8/27/2024 21:47	46504	LOHA_T1	2	2	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
8/27/2024 21:47	61703	ELIZ_T1	0	0	0	0	0	0	-5.38	-5.04	4	4	0	4200	4200	0
8/27/2024 21:47	57401	SPAN_T1	1	3	2	9.2	2.97	-6.23	0	0	0	0	0	0	0	0
8/27/2024 21:47	58706	ROSE_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
8/27/2024 21:47	51003	NHAR_T1	0	0	0	0	0	0	-2.69	-2.7	1	1	0	1200	1200	0
8/27/2024 21:47	60801	BUCK_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
8/27/2024 21:47	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:47	55002	NEWP_T1	2	2	0	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
8/27/2024 21:47	11104	EGYP_T1	0	1	1	0	0	0	0.65	0.62	0	0	0	0	0	0
8/27/2024 21:47	64503	LAVI_T1	0	0	0	0	0	0	-1.32	-1.51	1	1	0	1200	1200	0
8/27/2024 21:47	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:47	12701	MACU_T1	2	2	0	0.25	0.25	0	-0.89	-0.91	1	1	0	1200	1200	0
8/27/2024 21:47	60502	NMAN_T2	0	1	1	0	0.4	0.4	1.21	1.09	0	0	0	0	0	0
8/27/2024 21:47	45501	DERR_T2	0	0	0	0	0	0	0.39	0.24	2	2	0	1800	1800	0
8/27/2024 21:47	51004	NHAR_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
8/27/2024 21:47	40502	CRES_T2	8	5	-3	0.26	0.26	0	-0.68	-0.75	0	0	0	0	0	0
8/27/2024 21:47	15703	TANN_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
8/27/2024 21:47	15001	BLMO_T1	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
8/27/2024 21:47	65603	OVIL_T2	0	0	0	0	0	0	-0.61	-0.63	0	0	0	0	0	0
8/27/2024 21:47	61701	ELIZ_T1	1	1	0	1	0.8	-0.2	1.78	1.56	0	0	0	0	0	0
8/27/2024 21:47	56504	ROCK_T2	2	2	0	0.1	0	-0.1	-0.67	-0.72	0	0	0	0	0	0
8/27/2024 21:47	56501	ROCK_T2	2	6	4	0.1	0.22	0.12	-1.3	-1.44	0	0	0	0	0	0
8/27/2024 21:47	54601	SUMM_T2	0	0	0	0	0	0	-1.28	-1.3	2	2	0	2100	2100	0
8/27/2024 21:47	53903	HALI_T2	2	2	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
8/27/2024 21:47	64305	LINC_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/27/2024 21:48	42601	TUSC_T1	0	0	0	0	0	0	0.01	0.02	2	2	0	1800	1800	0
8/27/2024 21:48	20403	ASHF_T2	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
8/27/2024 21:48	24703	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:48	43102	SMIL_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
8/27/2024 21:48	13702	SCHN_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
8/27/2024 21:48	46206	DANV_T2	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
8/27/2024 21:48	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:48	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/27/2024 21:48	64101	REFR_T1	0	0	0	0	0	0	-0.42	-0.57	0	0	0	0	0	0
8/27/2024 21:48	53902	HALI_T2	1	1	0	4	4.3	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/27/2024 21:48	45802	HEGI_T2	6	16	10	0.58	0.47	-0.11	0.13	0.16	1	1	0	900	900	0
8/27/2024 21:48	22602	KIMB_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
8/27/2024 21:48	60101	COCA_T1	0	0	0	0	0	0	-0.38	-0.44	1	1	0	1200	1200	0
8/27/2024 21:48	45501	DERR_T2	0	0	0	0	0	0	0.39	0.24	2	2	0	1800	1800	0
8/27/2024 21:48	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:48	61703	ELIZ_T1	0	0	0	0	0	0	-2.69	-2.52	2	2	0	2100	2100	0
8/27/2024 21:48	56504	ROCK_T2	2	2	0	0.1	0	-0.1	-0.67	-0.72	0	0	0	0	0	0
8/27/2024 21:48	53502	EVIL_T2	0	0	0	0	0	0	-0.83	0.19	2	1	-1	1500	600	-900
8/27/2024 21:48	56501	ROCK_T2	2	6	4	0.1	0.22	0.12	-0.43	-0.48	0	0	0	0	0	0
8/27/2024 21:48	66502	SMAN_T2	0	0	0	0	0	0	0.33	0.37	0	0	0	0	0	0
8/27/2024 21:48	55101	WERT_T1	0	0	0	0	0	0	-2.41	-2.47	4	4	0	3300	3300	0
8/27/2024 21:48	53501	EVIL_T2	1	1	0	1.1	0	-1.1	-0.03	-0.03	10	10	0	6000	6000	0
8/27/2024 21:48	48301	ORWI_T1	2	2	0	4	4.15	0.15	-0.16	-0.17	1	1	0	900	900	0
8/27/2024 21:48	10705	CATA_T2	0	1	1	0	0	0	-1.52	-1.53	1	1	0	900	900	0
8/27/2024 21:48	46203	DANV_T2	2	1	-1	2.55	5.5	2.95	-0.17	-0.16	0	0	0	0	0	0
8/27/2024 21:48	44802	EDAN_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
8/27/2024 21:48	61701	ELIZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
8/27/2024 21:48	46803	HEPB_T2	1	3	2	0.1	0.17	0.07	0.71	0.7	0	0	0	0	0	0
8/27/2024 21:48	42503	ALTA_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
8/27/2024 21:48	53903	HALI_T2	2	2	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
8/27/2024 21:48	51604	DUKE_T2	0	0	0	0	0	0	-0.26	-0.34	0	0	0	0	0	0
8/27/2024 21:48	61505	EPET_T1	0	0	0	0	0	0	1.28	1.23	0	0	0	0	0	0
8/27/2024 21:48	66701	STRA_T1	0	0	0	0	0	0	0.48	0.45	1	1	0	600	600	0
8/27/2024 21:48	49803	UNIV_T1	1	1	0	5.6	5.4	-0.2	-1.82	-1.69	0	0	0	0	0	0
8/27/2024 21:48	43108	SMIL_T2	0	0	0	0	0	0	-0.93	-0.92	1	1	0	1200	1200	0
8/27/2024 21:48	43105	SMIL_T2	4	11	7	0.13	0.22	0.09	0	0	0	0	0	0	0	0
8/27/2024 21:48	53901	HALI_T2	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
8/27/2024 21:48	46801	HEPB_T2	3	14	11	0.9	0.35	-0.55	0	0	0	0	0	0	0	0
8/27/2024 21:48	66505	SMAN_T2	3	2	-1	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
8/27/2024 21:48	44801	EDAN_T2	1	7	6	0.8	0.13	-0.67	0	0	0	0	0	0	0	0
8/27/2024 21:48	20401	ASHF_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 21:48	16302	ALPA_T2	0	0	0	0	0	0	-0.18	-0.23	0	0	0	0	0	0
8/27/2024 21:48	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:48	63602	LETO_T1	0	0	0	0	0	0	-0.27	-0.28	1	1	0	600	600	0
8/27/2024 21:49	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:49	55002	NEWP_T1	2	2	0	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
8/27/2024 21:49	64503	LAVI_T1	0	0	0	0	0	0	-1.32	-1.51	1	1	0	1200	1200	0
8/27/2024 21:49	50201	HARR_T3	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/27/2024 21:49	43105	SMIL_T2	4	11	7	0.13	0.22	0.09	0	0	0	0	0	0	0	0
8/27/2024 21:49	53903	HALI_T2	2	2	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
8/27/2024 21:49	16006	DORN_T2	4	6	2	0.33	0	-0.33	0	0	0	0	0	0	0	0
8/27/2024 21:49	52004	LING_T2	2	2	0	5.05	4.75	-0.3	0.12	0.08	0	0	0	0	0	0
8/27/2024 21:49	47002	HUGH_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
8/27/2024 21:49	16002	DORN_T2	0	0	0	0	0	0	-0.05	-0.09	1	1	0	1200	1200	0
8/27/2024 21:49	53501	EVIL_T2	1	1	0	1.1	0	-1.1	-0.01	-0.01	2	2	0	1200	1200	0
8/27/2024 21:49	41702	LOGA_T2	11	84	73	0.14	0.31	0.17	0	0	0	0	0	0	0	0
8/27/2024 21:49	61304	EARL_T1	0	0	0	0	0	0	-0.88	-0.94	1	1	0	600	600	0
8/27/2024 21:49	13002	NBET_T2	0	0	0	0	0	0	-1.13	-1.27	2	2	0	2400	2400	0
8/27/2024 21:49	55001	NEWP_T1	0	0	0	0	0	0	-0.36	-0.39	1	1	0	600	600	0
8/27/2024 21:49	43102	SMIL_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
8/27/2024 21:49	53902	HALI_T2	1	1	0	4	4.3	0.3	-0.52	-0.54	0	0	0	0	0	0
8/27/2024 21:49	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/27/2024 21:49	54601	SUMM_T2	0	0	0	0	0	0	-1.28	-1.3	2	2	0	2100	2100	0
8/27/2024 21:49	50107	HARR_T3	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
8/27/2024 21:49	13704	SCHN_T2	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
8/27/2024 21:49	54202	PENN_T2	0	0	0	0	0	0	-0.41	-0.46	0	0	0	0	0	0
8/27/2024 21:49	56504	ROCK_T2	2	2	0	0.1	0	-0.1	-0.67	-0.72	0	0	0	0	0	0
8/27/2024 21:49	67605	WARW_T1	3	3	0	1.13	1	-0.13	0	0	0	0	0	0	0	0
8/27/2024 21:49	47001	HUGH_T2	3	4	1	7.4	5.95	-1.45	-1.17	-1.27	1	1	0	900	900	0
8/27/2024 21:49	20401	ASHF_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 21:49	50103	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/27/2024 21:49	56503	ROCK_T2	2	6	4	0.1	0.22	0.12	-0.43	-0.48	0	0	0	0	0	0
8/27/2024 21:49	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:49	50105	HARR_T3	6	6	0	7.6	7.38	-0.22	0	0	0	0	0	0	0	0
8/27/2024 21:49	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 21:49	20403	ASHF_T2	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
8/27/2024 21:49	61102	BERK_T5	0	0	0	0	0	0	1.34	1.39	2	2	0	600	600	0
8/27/2024 21:49	53802	MBRG_T2	0	0	0	0	0	0	-0.03	1.04	0	0	0	0	0	0
8/27/2024 21:49	60101	COCA_T1	0	0	0	0	0	0	-0.38	-0.44	1	1	0	1200	1200	0
8/27/2024 21:49	43108	SMIL_T2	0	0	0	0	0	0	-0.93	-0.92	1	1	0	1200	1200	0
8/27/2024 21:49	59101	WALK_T2	0	0	0	0	0	0	0.21	0.44	3	3	0	1800	1800	0
8/27/2024 21:50	57401	SPAN_T1	1	3	2	9.2	2.97	-6.23	-0.44	-0.5	1	1	0	600	600	0
8/27/2024 21:50	56504	ROCK_T2	2	2	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 21:50	25603	ARRO_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
8/27/2024 21:50	64801	MONE_T2	0	1	1	0	0.2	0.2	0.72	0.66	0	0	0	0	0	0
8/27/2024 21:50	67002	STHI_T2	0	0	0	0	0	0	-0.72	-0.73	1	1	0	600	600	0
8/27/2024 21:50	40502	CRES_T2	8	5	-3	0.26	0.26	0	0	0	0	0	0	0	0	0
8/27/2024 21:50	20603	GRWO_T2	0	0	0	0	0	0	-0.39	-0.41	1	1	0	900	900	0
8/27/2024 21:50	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:50	54601	SUMM_T2	0	0	0	0	0	0	-1.28	-1.3	2	2	0	2100	2100	0
8/27/2024 21:50	10805	CHHI_T2	1	1	0	9	8.8	-0.2	-0.4	-0.44	1	1	0	600	600	0
8/27/2024 21:50	29401	BELT_T1	0	5	5	0	0.12	0.12	0	0	1	1	0	900	900	0
8/27/2024 21:50	45502	DERR_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
8/27/2024 21:50	46901	MNTG_T2	0	0	0	0	0	0	0.6	0.55	1	1	0	1200	1200	0
8/27/2024 21:50	12601	MACA_T1	0	10	10	0	0.4	0.4	0	0	0	0	0	0	0	0
8/27/2024 21:50	46206	DANV_T2	1	1	0	1.4	1	-0.4	2.13	2.09	2	2	0	2100	2100	0
8/27/2024 21:50	56501	ROCK_T2	2	6	4	0.1	0.22	0.12	-0.87	-0.96	0	0	0	0	0	0
8/27/2024 21:50	11102	EGYP_T1	2	2	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
8/27/2024 21:50	43102	SMIL_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
8/27/2024 21:50	63304	GREE_T1	0	0	0	0	0	0	-1.1	-1.17	0	0	0	0	0	0
8/27/2024 21:50	43108	SMIL_T2	0	0	0	0	0	0	-0.93	-0.92	1	1	0	1200	1200	0
8/27/2024 21:50	63305	GREE_T1	0	10	10	0	0.18	0.18	0	0	0	0	0	0	0	0
8/27/2024 21:50	12606	MACA_T1	32	25	-7	1.15	0.22	-0.93	0	0	0	0	0	0	0	0
8/27/2024 21:50	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:50	67602	WARW_T2	0	0	0	0	0	0	0.4	1.28	2	2	0	600	600	0
8/27/2024 21:50	61703	ELIZ_T1	0	0	0	0	0	0	-2.69	-2.52	2	2	0	2100	2100	0
8/27/2024 21:50	66505	SMAN_T2	3	2	-1	0.27	0.15	-0.12	-0.12	-0.02	3	3	0	2100	2100	0
8/27/2024 21:50	46203	DANV_T2	2	1	-1	2.55	5.5	2.95	0	0	0	0	0	0	0	0
8/27/2024 21:50	61102	BERK_T5	0	0	0	0	0	0	0.67	0.69	1	1	0	300	300	0
8/27/2024 21:50	29402	BELT_T1	1	1	0	8.4	8.8	0.4	0	0	0	0	0	0	0	0
8/27/2024 21:50	64503	LAVI_T1	0	0	0	0	0	0	-1.32	-1.51	1	1	0	1200	1200	0
8/27/2024 21:50	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:50	43105	SMIL_T2	4	11	7	0.13	0.22	0.09	0	0	0	0	0	0	0	0
8/27/2024 21:50	46102	MACI_T1	0	0	0	0	0	0	0.96	0.95	0	0	0	0	0	0
8/27/2024 21:50	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 21:50	11104	EGYP_T1	0	1	1	0	0	0	0.65	0.62	0	0	0	0	0	0
8/27/2024 21:50	61701	ELIZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
8/27/2024 21:50	20403	ASHF_T2	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
8/27/2024 21:50	10705	CATA_T2	0	1	1	0	0	0	-1.52	-1.53	1	1	0	900	900	0
8/27/2024 21:50	12601	MACA_T1	0	0	0	0	0	0	1.22	1.25	0	0	0	0	0	0
8/27/2024 21:50	61503	EPET_T1	0	0	0	0	0	0	-0.34	-0.47	0	0	0	0	0	0
8/27/2024 21:50	65205	PRIN_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
8/27/2024 21:50	57403	SPAN_T1	0	7	7	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 21:50	20401	ASHF_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 21:50	20601	GRWO_T2	51	10	-41	0.41	0.23	-0.18	0	0	0	0	0	0	0	0
8/27/2024 21:50	64101	REFR_T1	0	0	0	0	0	0	-0.14	-0.19	0	0	0	0	0	0
8/27/2024 21:51	48301	ORWI_T1	2	2	0	4	4.15	0.15	-0.17	-0.2	1	1	0	900	900	0
8/27/2024 21:51	67605	WARW_T1	3	3	0	1.13	1	-0.13	-0.84	-0.91	0	0	0	0	0	0
8/27/2024 21:51	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:51	53601	DALM_T2	1	1	0	0.6	0.8	0.2	-0.23	-0.3	1	1	0	600	600	0
8/27/2024 21:51	64101	REFR_T1	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
8/27/2024 21:51	52204	DEVO_T2	4	6	2	0.83	0.63	-0.2	0	0	0	0	0	0	0	0
8/27/2024 21:51	41002	LAUR_T2	57	47	-10	0.76	0.48	-0.28	-1.1	-0.08	0	0	0	0	0	0
8/27/2024 21:51	52401	GRPA_T2	2	2	0	3.25	0.3	-2.95	0	0	0	0	0	0	0	0
8/27/2024 21:51	67602	WARW_T2	0	0	0	0	0	0	0.64	0.65	1	1	0	300	300	0
8/27/2024 21:51	40101	HUNT_T2	1	1	0	0.2	0.4	0.2	-1.4	-1.41	0	0	0	0	0	0
8/27/2024 21:51	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:51	55102	WERT_T2	1	0	-1	4.5	0	-4.5	-0.95	-1.08	2	2	0	1200	1200	0
8/27/2024 21:51	13503	MCMI_T2	46	57	11	0.28	0.25	-0.03	-0.71	-0.73	0	0	0	0	0	0
8/27/2024 21:51	41001	LAUR_T2	85	68	-17	0.78	0.42	-0.36	0	0	0	0	0	0	0	0
8/27/2024 21:51	58401	MORO_T1	0	0	0	0	0	0	-1.43	-1.44	1	1	0	600	600	0
8/27/2024 21:51	65604	QVIL_T2	0	0	0	0	0	0	0.67	0.64	0	0	0	0	0	0
8/27/2024 21:51	52004	LING_T2	2	2	0	5.05	4.75	-0.3	0	0	0	0	0	0	0	0
8/27/2024 21:51	52403	GRPA_T2	6	3	-3	2.02	0.15	-1.87	0	0	0	0	0	0	0	0
8/27/2024 21:51	44801	EDAN_T2	1	7	6	0.8	0.13	-0.67	0	0	0	0	0	0	0	0
8/27/2024 21:51	13502	MCMI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:51	46001	BERW_T1	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
8/27/2024 21:51	54501	ENOL_T2	0	0	0	0	0	0	0.01	-0.01	1	1	0	600	600	0
8/27/2024 21:51	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/27/2024 21:51	45502	DERR_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
8/27/2024 21:51	42902	MIDD_T2	0	0	0	0	0	0	-0.65	-0.69	1	1	0	600	600	0
8/27/2024 21:51	64902	MILL_T2	0	0	0	0	0	0	-0.09	-0.08	1	1	0	900	900	0
8/27/2024 21:51	52402	GRPA_T2	3	4	1	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
8/27/2024 21:51	53802	MBRG_T2	0	0	0	0	0	0	-0.03	1.04	0	0	0	0	0	0
8/27/2024 21:51	52202	DEVO_T2	1	1	0	0.4	0	-0.4	-1.98	-0.71	0	0	0	0	0	0
8/27/2024 21:51	52404	GRPA_T2	1	1	0	0.1	0.3	0.2	0.19	0.13	0	0	0	0	0	0
8/27/2024 21:51	59101	WALK_T2	0	0	0	0	0	0	0.21	0.44	3	3	0	1800	1800	0
8/27/2024 21:51	44802	EDAN_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
8/27/2024 21:51	52002	LING_T2	0	0	0	0	0	0	-0.12	0.67	1	0	-1	900	0	-900
8/27/2024 21:52	41901	REED_T1	9	9	0	0.53	0.67	0.14	0	0	0	0	0	0	0	0
8/27/2024 21:52	55101	WERT_T1	0	0	0	0	0	0	-2.47	-2.53	4	4	0	3300	3300	0
8/27/2024 21:52	57101	SPHI_T2	6	6	0	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
8/27/2024 21:52	43105	SMIL_T2	4	11	7	0.13	0.22	0.09	0	0	0	0	0	0	0	0
8/27/2024 21:52	56504	ROCK_T2	2	2	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 21:52	66703	STRA_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
8/27/2024 21:52	45501	DERR_T2	0	0	0	0	0	0	0.24	0.18	2	2	0	1800	1800	0
8/27/2024 21:52	43108	SMIL_T2	0	0	0	0	0	0	-0.92	0.36	1	0	-1	1200	0	-1200
8/27/2024 21:52	46206	DANV_T2	1	1	0	1.4	1	-0.4	2.09	2.08	2	2	0	2100	2100	0
8/27/2024 21:52	50201	HARR_T3	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/27/2024 21:52	67602	WARW_T2	0	0	0	0	0	0	1.28	1.31	2	2	0	600	600	0
8/27/2024 21:52	52401	GRPA_T2	2	2	0	3.25	0.3	-2.95	0	0	0	0	0	0	0	0
8/27/2024 21:52	46203	DANV_T2	2	1	-1	2.55	5.5	2.95	-0.16	-0.23	0	0	0	0	0	0
8/27/2024 21:52	13702	SCHN_T1	0	0	0	0	0	0	0.4	0.33	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/27/2024 21:52	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:52	10805	CHHI_T2	1	1	0	9	8.8	-0.2	-0.44	-0.47	1	1	0	600	600	0
8/27/2024 21:52	41902	REED_T1	4	6	2	0.45	0.3	-0.15	0.61	0.55	1	1	0	900	900	0
8/27/2024 21:52	67203	TEHI_T1	0	0	0	0	0	0	2.58	2.51	2	2	0	1500	1500	0
8/27/2024 21:52	50107	HARR_T3	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
8/27/2024 21:52	64101	REFR_T1	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
8/27/2024 21:52	11804	FRAN_T1	0	0	0	0	0	0	1.12	1.05	0	0	0	0	0	0
8/27/2024 21:52	56501	ROCK_T2	2	6	4	0.1	0.22	0.12	-0.96	-1.02	0	0	0	0	0	0
8/27/2024 21:52	11805	FRAN_T1	1	0	-1	8.2	0	-8.2	0	0	0	0	0	0	0	0
8/27/2024 21:52	61701	ELIZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
8/27/2024 21:52	45402	WBLO_T2	46	55	9	0.32	0.32	0	-1.14	-1.2	1	1	0	900	900	0
8/27/2024 21:52	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:52	52402	GRPA_T2	3	4	1	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
8/27/2024 21:52	46004	BERW_T2	0	0	0	0	0	0	0.51	0.46	0	0	0	0	0	0
8/27/2024 21:52	40502	CRES_T2	8	5	-3	0.26	0.26	0	-1.5	-1.56	0	0	0	0	0	0
8/27/2024 21:52	52403	GRPA_T2	6	3	-3	2.02	0.15	-1.87	0	0	0	0	0	0	0	0
8/27/2024 21:52	50103	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/27/2024 21:52	44801	EDAN_T2	1	7	6	0.8	0.13	-0.67	-4.11	-4.09	0	0	0	0	0	0
8/27/2024 21:52	57104	SPHI_T2	1	0	-1	7.2	0	-7.2	-0.18	-1.19	0	1	1	0	900	900
8/27/2024 21:52	12302	LANA_T2	0	0	0	0	0	0	-2.14	-2.23	3	3	0	2700	2700	0
8/27/2024 21:52	57106	SPHI_T2	3	3	0	0.77	0.6	-0.17	0	0	0	0	0	0	0	0
8/27/2024 21:52	50105	HARR_T3	6	6	0	7.6	7.38	-0.22	0	0	0	0	0	0	0	0
8/27/2024 21:52	43102	SMIL_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
8/27/2024 21:52	53501	EVIL_T2	1	1	0	1.1	0	-1.1	-0.01	-0.01	2	2	0	1200	1200	0
8/27/2024 21:52	23001	SAJO_T1	0	0	0	0	0	0	-0.27	-0.32	0	0	0	0	0	0
8/27/2024 21:52	52404	GRPA_T2	1	1	0	0.1	0.3	0.2	0.13	0.09	0	0	0	0	0	0
8/27/2024 21:52	46001	BERW_T1	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
8/27/2024 21:52	46901	MNTG_T2	0	0	0	0	0	0	0.55	0.76	1	1	0	1200	1200	0
8/27/2024 21:53	52101	MEIS_T1	2	2	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
8/27/2024 21:53	57304	MOAL_T2	1	0	-1	0.1	0	-0.1	-0.16	-0.25	0	0	0	0	0	0
8/27/2024 21:53	64202	KINZ_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/27/2024 21:53	61503	EPET_T1	0	0	0	0	0	0	-0.47	-0.54	0	0	0	0	0	0
8/27/2024 21:53	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:53	56504	ROCK_T2	2	2	0	0.1	0	-0.1	-0.72	-0.78	0	0	0	0	0	0
8/27/2024 21:53	44802	EDAN_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
8/27/2024 21:53	57303	MOAL_T2	1	1	0	8.1	8.1	0	0	0	0	0	0	0	0	0
8/27/2024 21:53	57401	SPAN_T1	1	3	2	9.2	2.97	-6.23	0	0	0	0	0	0	0	0
8/27/2024 21:53	45501	DERR_T2	0	0	0	0	0	0	0.48	0.35	4	4	0	3600	3600	0
8/27/2024 21:53	64101	REFR_T1	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
8/27/2024 21:53	44301	BEAV_T2	0	0	0	0	0	0	-0.04	-0.36	1	1	0	600	600	0
8/27/2024 21:53	44801	EDAN_T2	1	7	6	0.8	0.13	-0.67	0	0	0	0	0	0	0	0
8/27/2024 21:53	64204	KINZ_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
8/27/2024 21:53	45802	HEGI_T2	6	16	10	0.58	0.47	-0.11	0.16	0.12	1	1	0	900	900	0
8/27/2024 21:53	57403	SPAN_T1	0	7	7	0	0.2	0.2	0.49	0.42	0	0	0	0	0	0
8/27/2024 21:53	52004	LING_T2	2	0	-2	5.05	4.75	-0.3	0.08	0.07	0	0	0	0	0	0
8/27/2024 21:53	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
8/27/2024 21:53	57302	MOAL_T2	1	0	-1	3	0	-3	0	0	0	0	0	0	0	0
8/27/2024 21:53	43104	SMIL_T2	0	0	0	0	0	0	-0.87	-0.93	2	2	0	600	600	0
8/27/2024 21:53	64203	KINZ_T1	0	0	0	0	0	0	0.31	0.17	1	1	0	600	600	0
8/27/2024 21:53	61703	ELIZ_T1	0	0	0	0	0	0	-2.52	-2.55	2	2	0	2100	2100	0
8/27/2024 21:53	58401	MORO_T1	0	0	0	0	0	0	-1.44	-1.5	1	1	0	600	600	0
8/27/2024 21:53	61701	ELIZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
8/27/2024 21:53	52202	DEVO_T2	1	1	0	0.4	0	-0.4	-0.71	-0.74	0	0	0	0	0	0
8/27/2024 21:53	47401	PENS_T1	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
8/27/2024 21:53	58202	NEWV_T1	0	0	0	0	0	0	0.93	0.69	0	0	0	0	0	0
8/27/2024 21:53	46101	MACI_T2	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
8/27/2024 21:53	59302	MCAL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 21:53	55405	SHER_T1	6	6	0	0.48	0.38	-0.1	-0.17	-0.17	0	0	0	0	0	0
8/27/2024 21:53	59301	MCAL_T1	2	2	0	0.85	1.05	0.2	-1.11	-1.11	0	0	0	0	0	0
8/27/2024 21:53	43105	SMIL_T2	4	11	7	0.13	0.22	0.09	0	0	0	0	0	0	0	0
8/27/2024 21:53	51604	DUKE_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
8/27/2024 21:53	52204	DEVO_T2	4	6	2	0.83	0.63	-0.2	0	0	0	0	0	0	0	0
8/27/2024 21:53	53502	EVIL_T2	0	0	0	0	0	0	0.19	0.18	1	1	0	600	600	0
8/27/2024 21:53	56501	ROCK_T2	2	6	4	0.1	0.22	0.12	-0.48	-0.51	0	0	0	0	0	0
8/27/2024 21:53	43102	SMIL_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
8/27/2024 21:53	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:53	53501	EVIL_T2	1	1	0	1.1	0	-1.1	-0.01	-0.01	4	4	0	2400	2400	0
8/27/2024 21:54	44201	HUNT_T2	1	1	0	0.2	0.4	0.2	-1.4	-1.41	0	0	0	0	0	0
8/27/2024 21:54	46206	DANV_T2	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
8/27/2024 21:54	52202	DEVO_T2	1	1	0	0.4	0	-0.4	-0.71	-0.74	0	0	0	0	0	0
8/27/2024 21:54	43105	SMIL_T2	4	11	7	0.13	0.22	0.09	0	0	0	0	0	0	0	0
8/27/2024 21:54	43102	SMIL_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
8/27/2024 21:54	55101	WERT_T1	0	0	0	0	0	0	-4.94	-5.05	8	8	0	6600	6600	0
8/27/2024 21:54	46203	DANV_T2	2	1	-1	2.55	5.5	2.95	-0.16	-0.23	0	0	0	0	0	0
8/27/2024 21:54	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:54	56504	ROCK_T2	2	2	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 21:54	57401	SPAN_T1	1	3	2	9.2	2.97	-6.23	0	0	0	0	0	0	0	0
8/27/2024 21:54	41002	LAUR_T2	57	47	-10	0.76	0.48	-0.28	-1.1	-0.08	0	0	0	0	0	0
8/27/2024 21:54	66505	SMAN_T2	3	2	-1	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
8/27/2024 21:54	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:54	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:54	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:54	45402	WBLO_T2	46	55	9	0.32	0.32	0	-1.14	-1.2	1	1	0	900	900	0
8/27/2024 21:54	52204	DEVO_T2	4	6	2	0.83	0.63	-0.2	0	0	0	0	0	0	0	0
8/27/2024 21:54	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:54	66703	STRA_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
8/27/2024 21:54	67602	WARW_T2	0	0	0	0	0	0	0.64	0.65	1	1	0	300	300	0
8/27/2024 21:54	41001	LAUR_T2	85	68	-17	0.78	0.42	-0.36	0	0	0	0	0	0	0	0
8/27/2024 21:54	21501	CEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/27/2024 21:54	56501	ROCK_T2	2	6	4	0.1	0.22	0.12	-0.96	-1.02	0	0	0	0	0	0
8/27/2024 21:54	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 21:54	12701	MACU_T1	2	2	0	0.25	0.25	0	-0.91	-0.91	1	1	0	1200	1200	0
8/27/2024 21:54	64101	REFR_T1	0	0	0	0	0	0	-0.38	-0.45	0	0	0	0	0	0
8/27/2024 21:54	57403	SPAN_T1	0	7	7	0	0.2	0.2	0.49	0.42	0	0	0	0	0	0
8/27/2024 21:54	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:54	43104	SMIL_T2	0	0	0	0	0	0	-0.44	-0.46	1	1	0	300	300	0
8/27/2024 21:55	46203	DANV_T2	2	1	-1	2.55	5.5	2.95	-0.16	-0.23	0	0	0	0	0	0
8/27/2024 21:55	43103	SMIL_T2	0	0	0	0	0	0	-0.43	-0.49	0	0	0	0	0	0
8/27/2024 21:55	61402	SLIT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:55	53903	HALI_T2	2	2	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
8/27/2024 21:55	52004	LING_T2	2	2	0	5.05	4.75	-0.3	0	0	0	0	0	0	0	0
8/27/2024 21:55	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:55	43108	SMIL_T2	0	0	0	0	0	0	-0.92	0.36	1	0	-1	1200	0	-1200
8/27/2024 21:55	58706	ROSE_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
8/27/2024 21:55	46206	DANV_T2	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
8/27/2024 21:55	47101	MARL_T1	20	15	-5	0.61	0.39	-0.22	-0.32	-0.39	0	0	0	0	0	0
8/27/2024 21:55	43105	SMIL_T2	4	11	7	0.13	0.22	0.09	0	0	0	0	0	0	0	0
8/27/2024 21:55	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:55	58401	MORO_T1	0	0	0	0	0	0	-1.44	-1.5	1	1	0	600	600	0
8/27/2024 21:55	53902	HALI_T2	1	1	0	4	4.3	0.3	-0.54	-0.56	0	0	0	0	0	0
8/27/2024 21:55	58705	ROSE_T2	5	5	0	1.1	1.1	0	0	0	0	0	0	0	0	0
8/27/2024 21:55	58702	ROSE_T2	0	0	0	0	0	0	-1.94	-1.95	0	0	0	0	0	0
8/27/2024 21:55	46501	LOHA_T1	1	1	0	3.1	0.1	-3	0.3	0.25	1	1	0	1200	1200	0
8/27/2024 21:55	66703	STRA_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
8/27/2024 21:55	46506	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 21:55	46504	LOHA_T1	2	2	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
8/27/2024 21:55	52202	DEVO_T2	1	1	0	0.4	0	-0.4	-0.71	-0.74	0	0	0	0	0	0
8/27/2024 21:55	43102	SMIL_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
8/27/2024 21:55	45501	DERR_T2	0	0	0	0	0	0	0.48	0.35	4	4	0	3600	3600	0
8/27/2024 21:55	60101	COCA_T1	0	0	0	0	0	0	-0.88	1.59	2	0	-2	2400	0	-2400
8/27/2024 21:55	42801	SELI_T1	0	0	0	0	0	0	-0.5	-0.54	1	1	0	1200	1200	0
8/27/2024 21:55	43202	MVIL_T2	4	4	0	1.68	0.87	-0.81	-1.16	-1.16	0	0	0	0	0	0
8/27/2024 21:55	43201	MVIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 21:55	52204	DEVO_T2	4	6	2	0.83	0.63	-0.2	0	0	0	0	0	0	0	0
8/27/2024 21:55	52002	LING_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
8/27/2024 21:55	55101	WERT_T1	0	0	0	0	0	0	-2.47	-2.53	4	4	0	3300	3300	0
8/27/2024 21:56	43103	SMIL_T2	0	0	0	0	0	0	-0.43	-0.49	0	0	0	0	0	0
8/27/2024 21:56	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:56	53501	EVIL_T2	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
8/27/2024 21:56	14404	SILA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:56	43105	SMIL_T2	4	11	7	0.13	0.22	0.09	0	0	0	0	0	0	0	0
8/27/2024 21:56	52004	LING_T2	2	2	0	5.05	4.75	-0.3	0.08	0.07	0	0	0	0	0	0
8/27/2024 21:56	42903	MIDD_T2	0	1	1	0	0	0	-0.96	-1.12	1	1	0	1200	1200	0
8/27/2024 21:56	67201	TEHI_T1	0	0	0	0	0	0	0.17	0.08	1	1	0	900	900	0
8/27/2024 21:56	58401	MORO_T1	0	0	0	0	0	0	-1.44	-1.5	1	1	0	600	600	0
8/27/2024 21:56	61801	EELI_T2	8	7	-1	0.43	0.2	-0.23	-0.64	-0.68	0	0	0	0	0	0
8/27/2024 21:56	67605	WARW_T1	3	3	0	1.13	1	-0.13	-0.84	-0.91	0	0	0	0	0	0
8/27/2024 21:56	59301	MCAL_T1	2	2	0	0.85	1.05	0.2	-1.11	-1.11	0	0	0	0	0	0
8/27/2024 21:56	55002	NEWP_T1	2	2	0	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
8/27/2024 21:56	55001	NEWP_T1	0	0	0	0	0	0	-0.39	-0.41	1	1	0	600	600	0
8/27/2024 21:56	14403	SILA_T1	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
8/27/2024 21:56	43102	SMIL_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
8/27/2024 21:56	53502	EVIL_T2	0	0	0	0	0	0	0.19	0.18	1	1	0	600	600	0
8/27/2024 21:56	44802	EDAN_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
8/27/2024 21:56	59302	MCAL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 21:56	47101	MARL_T1	20	15	-5	0.61	0.39	-0.22	-0.32	-0.39	0	0	0	0	0	0
8/27/2024 21:56	61801	EELI_T2	2	1	-1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
8/27/2024 21:56	44801	EDAN_T2	1	7	6	0.8	0.13	-0.67	0	0	0	0	0	0	0	0
8/27/2024 21:56	42902	MIDD_T2	0	0	0	0	0	0	-0.65	-0.69	1	1	0	600	600	0
8/27/2024 21:57	47101	MARL_T1	20	15	-5	0.61	0.39	-0.22	-0.32	-0.39	0	0	0	0	0	0
8/27/2024 21:57	56501	ROCK_T2	2	6	4	0.1	0.22	0.12	-0.48	-0.51	0	0	0	0	0	0
8/27/2024 21:57	40502	CRES_T2	8	5	-3	0.26	0.26	0	-0.75	-0.78	0	0	0	0	0	0
8/27/2024 21:57	41902	REED_T1	4	6	2	0.45	0.3	-0.15	0.61	0.55	1	1	0	900	900	0
8/27/2024 21:57	67605	WARW_T1	3	3	0	1.13	1	-0.13	-0.84	-0.91	0	0	0	0	0	0
8/27/2024 21:57	55001	NEWP_T1	0	0	0	0	0	0	-0.39	-0.41	1	1	0	600	600	0
8/27/2024 21:57	58401	MORO_T1	0	0	0	0	0	0	-1.44	-1.5	1	1	0	600	600	0
8/27/2024 21:57	57006	WHHI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 21:57	41901	REED_T1	9	9	0	0.53	0.67	0.14	0	0	0	0	0	0	0	0
8/27/2024 21:57	49804	UNIV_T1	0	0	0	0	0	0	-0.12	-0.17	0	0	0	0	0	0
8/27/2024 21:57	63302	GREE_T1	0	0	0	0	0	0	0.72	0.68	0	0	0	0	0	0
8/27/2024 21:57	45302	WBER_T2	0	0	0	0	0	0	1.23	1.18	0	0	0	0	0	0
8/27/2024 21:57	63305	GREE_T1	0	10	10	0	0.18	0.18	0	0	0	0	0	0	0	0
8/27/2024 21:57	53501	EVIL_T2	1	1	0	1.1	0	-1.1	-0.02	-0.02	6	6	0	3600	3600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/27/2024 21:57	61702	ELIZ_T2	0	0	0	0	0	0	-1.44	-1.46	2	2	0	1500	1500	0
8/27/2024 21:57	40902	JESH_T1	0	0	0	0	0	0	-0.61	-0.18	1	0	-1	600	0	-600
8/27/2024 21:57	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:57	45501	DERR_T2	0	0	0	0	0	0	0.24	0.18	2	2	0	1800	1800	0
8/27/2024 21:57	56504	ROCK_T2	2	2	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 21:57	57004	WHHI_T2	0	0	0	0	0	0	-0.06	-0.16	0	0	0	0	0	0
8/27/2024 21:57	49803	UNIV_T1	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
8/27/2024 21:57	44301	BEAV_T2	0	0	0	0	0	0	-0.04	-0.36	1	1	0	600	600	0
8/27/2024 21:57	60502	NMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/27/2024 21:57	67602	WARW_T2	0	0	0	0	0	0	0.64	0.65	1	1	0	300	300	0
8/27/2024 21:57	40901	JESH_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
8/27/2024 21:57	55002	NEWP_T1	2	2	0	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
8/27/2024 21:57	63602	LETO_T1	0	0	0	0	0	0	-0.28	-0.31	1	1	0	600	600	0
8/27/2024 21:58	46206	DANV_T2	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
8/27/2024 21:58	42902	MIDD_T2	0	0	0	0	0	0	-0.65	-0.69	1	1	0	600	600	0
8/27/2024 21:58	58401	MORO_T1	0	0	0	0	0	0	-1.44	-1.5	1	1	0	600	600	0
8/27/2024 21:58	40101	HUNT_T2	1	1	0	0.2	0.4	0.2	-1.4	-1.41	0	0	0	0	0	0
8/27/2024 21:58	44301	BEAV_T2	0	0	0	0	0	0	-0.04	-0.36	1	1	0	600	600	0
8/27/2024 21:58	59301	MCAL_T1	2	2	0	0.85	1.05	0.2	0	0	0	0	0	0	0	0
8/27/2024 21:58	57403	SPAN_T1	0	7	7	0	0.2	0.2	0.49	0.42	0	0	0	0	0	0
8/27/2024 21:58	52004	LING_T2	2	2	0	5.05	4.75	-0.3	0	0	0	0	0	0	0	0
8/27/2024 21:58	56501	ROCK_T2	2	6	4	0.1	0.22	0.12	-0.48	-0.51	0	0	0	0	0	0
8/27/2024 21:58	63304	GREE_T1	0	0	0	0	0	0	-1.17	-1.17	0	0	0	0	0	0
8/27/2024 21:58	52002	LING_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
8/27/2024 21:58	46506	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 21:58	57401	SPAN_T1	1	3	2	9.2	2.97	-6.23	0	0	0	0	0	0	0	0
8/27/2024 21:58	46203	DANV_T2	2	1	-1	2.55	5.5	2.95	-0.16	-0.23	0	0	0	0	0	0
8/27/2024 21:58	56504	ROCK_T2	2	0	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 21:58	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:58	63305	GREE_T1	0	10	10	0	0.18	0.18	0	0	0	0	0	0	0	0
8/27/2024 21:58	59302	MCAL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/27/2024 21:58	46504	LOHA_T1	2	2	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
8/27/2024 21:58	65205	PRIN_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
8/27/2024 21:58	46503	LOHA_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
8/27/2024 21:58	46501	LOHA_T1	1	1	0	3.1	0.1	-3	0	0	0	0	0	0	0	0
8/27/2024 21:59	52401	GRPA_T2	2	2	0	3.25	0.3	-2.95	0	0	0	0	0	0	0	0
8/27/2024 21:59	52402	GRPA_T2	3	4	1	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
8/27/2024 21:59	53502	EVIL_T2	0	0	0	0	0	0	0.19	0.18	1	1	0	600	600	0
8/27/2024 21:59	66505	SMAN_T2	3	2	-1	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
8/27/2024 21:59	41901	REED_T1	9	9	0	0.53	0.67	0.14	0	0	0	0	0	0	0	0
8/27/2024 21:59	63401	HONY_T1	0	0	0	0	0	0	-0.04	-0.06	1	1	0	600	600	0
8/27/2024 21:59	41902	REED_T1	4	6	2	0.45	0.3	-0.15	0.61	0.55	1	1	0	900	900	0
8/27/2024 21:59	66504	SMAN_T2	0	0	0	0	0	0	-0.68	-0.75	1	1	0	1200	1200	0
8/27/2024 21:59	52403	GRPA_T2	6	3	-3	2.02	0.15	-1.87	-0.32	-0.35	0	0	0	0	0	0
8/27/2024 21:59	53601	DALM_T2	1	1	0	0.6	0.8	0.2	-0.3	-0.19	1	1	0	600	600	0
8/27/2024 21:59	46504	LOHA_T1	2	2	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
8/27/2024 21:59	46506	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 21:59	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 21:59	53501	EVIL_T2	1	1	0	1.1	0	-1.1	-0.01	-0.01	2	2	0	1200	1200	0
8/27/2024 21:59	58401	MORO_T1	0	0	0	0	0	0	-1.44	-1.5	1	1	0	600	600	0
8/27/2024 21:59	52404	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/27/2024 21:59	46501	LOHA_T1	1	1	0	3.1	0.1	-3	0	0	0	0	0	0	0	0
8/27/2024 21:59	46503	LOHA_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
8/27/2024 22:00	57403	SPAN_T1	7	0	-7	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 22:00	59101	WALK_T2	0	0	0	0	0	0	0.44	0.36	3	3	0	1800	1800	0
8/27/2024 22:00	56501	ROCK_T2	5	1	-4	0.22	0	-0.22	0	0	0	0	0	0	0	0
8/27/2024 22:00	42903	MIDD_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
8/27/2024 22:00	52403	GRPA_T2	2	3	1	0.4	0	-0.4	-0.32	-0.35	0	0	0	0	0	0
8/27/2024 22:00	42902	MIDD_T2	0	0	0	0	0	0	-0.65	-0.69	1	1	0	600	600	0
8/27/2024 22:00	52401	GRPA_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/27/2024 22:00	57401	SPAN_T1	3	1	-2	2.97	9.3	6.33	-0.5	-0.78	1	1	0	600	600	0
8/27/2024 22:00	52404	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/27/2024 22:00	56504	ROCK_T2	0	2	2	0	0.1	0.1	-0.72	-0.78	0	0	0	0	0	0
8/27/2024 22:00	52402	GRPA_T2	4	0	-4	0.28	0	-0.28	0	0	0	0	0	0	0	0
8/27/2024 22:01	55101	WERT_T1	0	0	0	0	0	0	-2.47	-2.53	4	4	0	3300	3300	0
8/27/2024 22:01	58402	MORO_T1	0	0	0	0	0	0	-1.37	-1.44	3	3	0	2400	2400	0
8/27/2024 22:01	64305	LINC_T1	1	1	0	0.8	0.1	-0.7	-0.15	-0.21	0	0	0	0	0	0
8/27/2024 22:05	43102	SMIL_T2	4	0	-4	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/27/2024 22:05	43105	SMIL_T2	11	0	-11	0.22	0	-0.22	0	0	0	0	0	0	0	0
8/27/2024 22:05	43104	SMIL_T2	0	0	0	0	0	0	-0.44	-0.46	1	1	0	300	300	0
8/27/2024 22:09	59201	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 22:09	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2024 22:13	57505	LAWN_T3	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
8/27/2024 22:22	22905	HARW_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/27/2024 22:22	22903	HARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/27/2024 22:22	46206	DANV_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
8/27/2024 22:22	46203	DANV_T2	1	1	0	5.5	6.3	0.8	-0.22	-0.26	0	0	0	0	0	0
8/27/2024 22:31	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/27/2024 22:31	52404	GRPA_T2	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
8/27/2024 22:39	10801	CHHI_T1	0	0	0	0	0	0	-1.59	-1.65	3	3	0	2100	2100	0
8/27/2024 23:05	56501	ROCK_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/27/2024 23:05	56504	ROCK_T2	0	0	0	0	0	0	-0.87	-0.9	0	0	0	0	0	0
8/27/2024 23:06	56501	ROCK_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/27/2024 23:06	56504	ROCK_T2	0	0	0	0	0	0	-0.87	-0.9	0	0	0	0	0	0
8/27/2024 23:25	50701	SMEC_T1	0	0	0	0	0	0	-0.06	-0.19	0	0	0	0	0	0
8/27/2024 23:29	57505	LAWN_T3	0	0	0	0	0	0	1.17	1.17	0	0	0	0	0	0
8/27/2024 23:40	42601	TUSC_T1	0	0	0	0	0	0	-0.18	-0.28	2	2	0	1800	1800	0
8/27/2024 23:46	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
8/27/2024 23:54	49803	UNIV_T1	1	1	0	6.2	5.6	-0.6	-2	-1.98	0	0	0	0	0	0
8/28/2024 1:32	67804	WLAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/28/2024 1:32	67805	WLAN_T1	123	0	-123	0.62	0	-0.62	0	0	0	0	0	0	0	0
8/28/2024 1:32	67801	WLAN_T1	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
8/28/2024 1:32	67803	WLAN_T1	152	0	-152	0.46	0	-0.46	0	0	0	0	0	0	0	0
8/28/2024 2:00	61701	ELIZ_T1	1	1	0	1.9	2.1	0.2	1.45	1.54	0	0	0	0	0	0
8/28/2024 7:13	21501	CEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/28/2024 7:33	42903	MIDD_T2	0	0	0	0	0	0	0.66	0.63	1	1	0	1200	1200	0
8/28/2024 7:38	67803	WLAN_T1	0	0	0	0	0	0	-1.36	-1.35	0	0	0	0	0	0
8/28/2024 7:46	53803	MBRG_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
8/28/2024 7:47	53501	EVIL_T2	7	2	-5	0.29	0.2	-0.09	-0.01	-0.01	2	2	0	1200	1200	0
8/28/2024 7:47	53502	EVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/28/2024 7:48	12002	HATF_T1	0	0	0	0	0	0	-0.46	-0.28	1	1	0	1200	1200	0
8/28/2024 7:48	12006	HATF_T1	0	0	0	0	0	0	0.09	0.23	2	2	0	2400	2400	0
8/28/2024 7:48	64904	MILL_T1	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
8/28/2024 7:51	12701	MACU_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
8/28/2024 7:52	14601	SWHI_T1	0	0	0	0	0	0	-0.62	-0.59	0	0	0	0	0	0
8/28/2024 7:52	55002	NEWP_T1	4	4	0	0.58	0.63	0.05	-0.13	-0.1	0	0	0	0	0	0
8/28/2024 7:53	59101	WALK_T2	1	1	0	1.5	2	0.5	1.85	1.85	2	2	0	1200	1200	0
8/28/2024 7:53	67804	WLAN_T1	0	0	0	0	0	0	-0.92	-0.89	0	0	0	0	0	0
8/28/2024 7:56	40504	CRES_T1	0	0	0	0	0	0	-1.53	-1.48	0	0	0	0	0	0
8/28/2024 7:57	40504	CRES_T1	0	0	0	0	0	0	-1.53	-1.48	0	0	0	0	0	0
8/28/2024 7:57	53601	DALM_T2	1	1	0	0.1	0.2	0.1	0.01	0.07	1	1	0	600	600	0
8/28/2024 7:57	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 7:57	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 7:59	63305	GREE_T1	0	0	0	0	0	0	-1.55	-1.59	1	1	0	900	900	0
8/28/2024 8:00	40504	CRES_T1	0	0	0	0	0	0	-1.53	-1.48	0	0	0	0	0	0
8/28/2024 8:02	63305	GREE_T1	0	0	0	0	0	0	-1.55	-1.59	1	1	0	900	900	0
8/28/2024 8:03	60502	NMAN_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
8/28/2024 8:03	53803	MBRG_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
8/28/2024 8:08	60502	NMAN_T2	0	0	0	0	0	0	0.03	0.23	0	0	0	0	0	0
8/28/2024 8:10	57002	WHHI_T2	0	0	0	0	0	0	-1.94	-1.92	1	1	0	1200	1200	0
8/28/2024 8:14	16006	DORN_T2	0	0	0	0	0	0	1.13	1.14	0	0	0	0	0	0
8/28/2024 8:15	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 8:19	55508	HERS_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
8/28/2024 8:20	15204	SFAR_T2	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
8/28/2024 8:20	46501	LOHA_T1	1	0	-1	2.1	0	-2.1	0	0	0	0	0	0	0	0
8/28/2024 8:20	46502	LOHA_T1	0	0	0	0	0	0	-0.91	-0.98	1	1	0	1200	1200	0
8/28/2024 8:20	46504	LOHA_T1	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
8/28/2024 8:21	15203	SFAR_T2	0	0	0	0	0	0	-0.91	-0.82	0	0	0	0	0	0
8/28/2024 8:21	15204	SFAR_T2	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
8/28/2024 8:22	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/28/2024 8:25	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/28/2024 8:25	45602	WOOL_T1	0	0	0	0	0	0	0.95	0.99	0	0	0	0	0	0
8/28/2024 8:25	14801	TREI_T2	1	1	0	0.5	0.9	0.4	0.72	-0.05	0	0	0	0	0	0
8/28/2024 8:27	45602	WOOL_T1	0	0	0	0	0	0	0.95	0.99	0	0	0	0	0	0
8/28/2024 8:28	67503	WEWI_T2	1	1	0	7.5	7.7	0.2	0	0	0	0	0	0	0	0
8/28/2024 8:28	67502	WEWI_T2	0	0	0	0	0	0	-0.82	-0.71	1	1	0	900	900	0
8/28/2024 8:29	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 8:29	24702	FLND_T2	0	0	0	0	0	0	0	0	2	1	-1	2400	1200	-1200
8/28/2024 8:29	67502	WEWI_T2	0	0	0	0	0	0	-0.82	-0.71	1	1	0	900	900	0
8/28/2024 8:29	21206	ECAR_T2	1	1	0	7.3	6.8	-0.5	0.62	0.66	0	0	0	0	0	0
8/28/2024 8:29	67503	WEWI_T2	1	1	0	7.5	7.7	0.2	0	0	0	0	0	0	0	0
8/28/2024 8:30	10504	CRAC_T1	0	0	0	0	0	0	0.55	0.46	0	0	0	0	0	0
8/28/2024 8:34	64902	MILL_T2	0	0	0	0	0	0	-0.88	-0.85	1	1	0	900	900	0
8/28/2024 8:37	64902	MILL_T2	0	0	0	0	0	0	-0.85	-0.8	1	1	0	900	900	0
8/28/2024 8:37	13905	SEID_T1	0	0	0	0	0	0	-0.77	-0.75	1	1	0	1200	1200	0
8/28/2024 8:39	51306	WIND_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
8/28/2024 8:39	43402	BENT_T1	0	0	0	0	0	0	-0.24	-0.22	1	1	0	600	600	0
8/28/2024 8:41	67503	WEWI_T2	1	1	0	7.7	7.1	-0.6	0.33	0.3	0	0	0	0	0	0
8/28/2024 8:42	45901	AUBU_T1	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
8/28/2024 8:42	43402	BENT_T1	0	0	0	0	0	0	-0.24	-0.22	1	1	0	600	600	0
8/28/2024 8:44	24105	EHAZ_T1	4	4	0	5.53	5.23	-0.3	0	0	0	0	0	0	0	0
8/28/2024 8:44	24101	EHAZ_T1	6	0	-6	0.27	0	-0.27	0	0	0	0	0	0	0	0
8/28/2024 8:44	24104	EHAZ_T1	0	2	2	0	0.1	0.1	-1.85	-1.81	1	1	0	1200	1200	0
8/28/2024 8:45	45802	HEGI_T2	0	0	0	0	0	0	0.06	0.05	2	2	0	1800	1800	0
8/28/2024 8:47	40101	HUNT_T2	1	13	12	0.6	0.6	0	-0.68	-0.42	0	0	0	0	0	0
8/28/2024 8:48	47502	NECO_T1	1	1	0	0.3	0.2	-0.1	1.07	1.1	0	0	0	0	0	0
8/28/2024 8:50	57401	SPAN_T1	3	3	0	3.13	3.23	0.1	0	0	0	0	0	0	0	0
8/28/2024 8:50	57403	SPAN_T1	15	22	7	0.24	0.29	0.05	0.22	0.25	0	0	0	0	0	0
8/28/2024 8:50	56501	ROCK_T2	3	2	-1	0.27	0.8	0.53	-0.89	-0.84	0	0	0	0	0	0
8/28/2024 8:51	60502	NMAN_T2	0	0	0	0	0	0	0.26	0.32	0	0	0	0	0	0
8/28/2024 8:51	56501	ROCK_T2	3	2	-1	0.27	0.8	0.53	-0.89	-0.84	0	0	0	0	0	0
8/28/2024 8:55	45502	DERR_T2	2	2	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
8/28/2024 8:55	45501	DERR_T2	1	1	0	0.5	0.4	-0.1	0.84	0.93	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/28/2024 8:56	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 8:56	44301	BEAV_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/28/2024 8:57	45501	DERR_T2	1	1	0	0.5	0.4	-0.1	0.84	0.93	2	2	0	1800	1800	0
8/28/2024 8:57	45502	DERR_T2	2	2	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
8/28/2024 8:58	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/28/2024 9:00	57006	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 9:00	57002	WHHI_T2	0	0	0	0	0	0	-1.86	-1.82	1	1	0	1200	1200	0
8/28/2024 9:00	23203	HIRU_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
8/28/2024 9:03	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
8/28/2024 9:03	40602	PIGR_T1	1	1	0	1.4	1.7	0.3	-0.71	-0.72	1	1	0	600	600	0
8/28/2024 9:05	66703	STRA_T1	0	0	0	0	0	0	-0.34	-0.22	0	0	0	0	0	0
8/28/2024 9:07	13302	ORVI_T2	1	0	-1	0.2	0	-0.2	0.7	0.93	0	0	0	0	0	0
8/28/2024 9:07	42801	SELI_T1	0	0	0	0	0	0	-0.4	-0.23	1	1	0	1200	1200	0
8/28/2024 9:09	20401	ASHF_T2	2	5	3	0.95	0.98	0.03	0	0	0	0	0	0	0	0
8/28/2024 9:09	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 9:09	20403	ASHF_T2	0	1	1	0	0	0	1.99	1.93	0	0	0	0	0	0
8/28/2024 9:11	20401	ASHF_T2	2	5	3	0.95	0.98	0.03	0	0	0	0	0	0	0	0
8/28/2024 9:11	20403	ASHF_T2	0	1	1	0	0	0	1.99	1.93	0	0	0	0	0	0
8/28/2024 9:11	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 9:16	53501	EVIL_T2	2	3	1	1.2	0.63	-0.57	-0.02	-0.02	6	6	0	3600	3600	0
8/28/2024 9:16	11507	FREE_T2	1	2	1	0.4	0	-0.4	0.94	0.92	0	0	0	0	0	0
8/28/2024 9:17	40101	HUNT_T2	5	52	47	0.64	0.6	-0.04	-0.52	-0.4	0	0	0	0	0	0
8/28/2024 9:17	53501	EVIL_T2	2	3	1	1.2	0.63	-0.57	-0.01	-0.01	4	4	0	2400	2400	0
8/28/2024 9:22	60502	NMAN_T2	0	0	0	0	0	0	0.4	0.5	0	0	0	0	0	0
8/28/2024 9:24	20403	ASHF_T2	0	3	3	0	0	0	1.93	1.95	0	0	0	0	0	0
8/28/2024 9:24	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 9:24	20401	ASHF_T2	5	4	-1	1.58	0.83	-0.75	0	0	0	0	0	0	0	0
8/28/2024 9:25	20401	ASHF_T2	5	4	-1	1.58	0.83	-0.75	0	0	0	0	0	0	0	0
8/28/2024 9:25	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 9:25	20403	ASHF_T2	0	3	3	0	0	0	1.93	1.95	0	0	0	0	0	0
8/28/2024 9:26	43108	SMIL_T2	0	1	1	0	0	0	-0.6	-0.56	1	1	0	1200	1200	0
8/28/2024 9:26	61102	BERK_T5	0	0	0	0	0	0	1.54	1.67	2	2	0	600	600	0
8/28/2024 9:27	61102	BERK_T5	0	0	0	0	0	0	0.77	0.84	1	1	0	300	300	0
8/28/2024 9:27	45501	DERR_T2	1	3	2	0.7	0.33	-0.37	0	0	0	0	0	0	0	0
8/28/2024 9:27	45502	DERR_T2	1	2	1	0.1	0.2	0.1	0.08	0.08	1	1	0	300	300	0
8/28/2024 9:28	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 9:28	53502	EVIL_T2	0	0	0	0	0	0	-0.32	-0.11	3	3	0	2100	2100	0
8/28/2024 9:28	53501	EVIL_T2	2	3	1	1.2	0.63	-0.57	0	0	0	0	0	0	0	0
8/28/2024 9:29	61102	BERK_T5	0	0	0	0	0	0	1.54	1.67	2	2	0	600	600	0
8/28/2024 9:30	40101	HUNT_T2	13	58	45	0.58	0.46	-0.12	-0.4	-0.47	0	0	0	0	0	0
8/28/2024 9:36	46302	ROHR_T1	5	4	-1	0.88	1.18	0.3	0.24	0.26	0	0	0	0	0	0
8/28/2024 9:36	46301	ROHR_T1	1	1	0	7.6	7.2	-0.4	0	0	0	0	0	0	0	0
8/28/2024 9:37	41902	REED_T1	1	2	1	0.1	0.1	0	0.53	0.57	1	1	0	900	900	0
8/28/2024 9:37	55002	NEWP_T1	1	1	0	0.4	0.6	0.2	-0.03	-0.01	0	0	0	0	0	0
8/28/2024 9:38	46301	ROHR_T1	1	1	0	7.6	7.2	-0.4	0	0	0	0	0	0	0	0
8/28/2024 9:38	55001	NEWP_T1	0	0	0	0	0	0	-0.38	-0.34	1	1	0	600	600	0
8/28/2024 9:38	55002	NEWP_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
8/28/2024 9:38	46302	ROHR_T1	5	4	-1	0.88	1.18	0.3	0.24	0.26	0	0	0	0	0	0
8/28/2024 9:38	41902	REED_T1	1	2	1	0.1	0.1	0	0.53	0.57	1	1	0	900	900	0
8/28/2024 9:38	66504	SMAN_T2	0	0	0	0	0	0	-0.59	-0.63	1	1	0	1200	1200	0
8/28/2024 9:40	66504	SMAN_T2	0	0	0	0	0	0	-1.18	-1.26	2	2	0	2400	2400	0
8/28/2024 9:42	61102	BERK_T5	0	0	0	0	0	0	1.67	0.07	2	4	2	600	2400	1800
8/28/2024 9:43	44301	BEAV_T2	1	4	3	1.9	0.7	-1.2	0	0	0	0	0	0	0	0
8/28/2024 9:43	46206	DANV_T2	49	56	7	0.62	0.6	-0.02	5.91	6.23	2	2	0	2400	2400	0
8/28/2024 9:43	51604	DUKE_T2	0	0	0	0	0	0	-0.52	-0.47	0	0	0	0	0	0
8/28/2024 9:43	61102	BERK_T5	0	0	0	0	0	0	0.84	0.04	1	2	1	300	1200	900
8/28/2024 9:43	51602	DUKE_T2	0	0	0	0	0	0	-0.96	0.29	1	0	1	1200	0	1200
8/28/2024 9:43	46203	DANV_T2	1	1	0	7.2	6.9	-0.3	0	0	0	0	0	0	0	0
8/28/2024 9:44	51604	DUKE_T2	0	0	0	0	0	0	-0.52	-0.47	0	0	0	0	0	0
8/28/2024 9:44	61102	BERK_T5	0	0	0	0	0	0	0.84	0.04	1	2	1	300	1200	900
8/28/2024 9:44	46206	DANV_T2	49	56	7	0.62	0.6	-0.02	2.95	3.12	1	1	0	1200	1200	0
8/28/2024 9:44	46203	DANV_T2	1	1	0	7.2	6.9	-0.3	0	0	0	0	0	0	0	0
8/28/2024 9:45	61102	BERK_T5	0	0	0	0	0	0	0.84	0.04	1	2	1	300	1200	900
8/28/2024 9:45	23401	HONE_T2	1	1	0	0.5	0	-0.5	0.43	0.43	0	0	0	0	0	0
8/28/2024 9:53	41902	REED_T1	1	24	23	0.1	0.1	0	0.57	0.59	1	1	0	900	900	0
8/28/2024 9:53	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 9:53	55101	WERT_T1	0	6	6	0	0.22	0.22	-3.69	-3.76	8	8	0	6600	6600	0
8/28/2024 9:53	57401	SPAN_T1	1	2	1	4	0	-4	-1.72	-1.67	3	3	0	1800	1800	0
8/28/2024 9:53	57403	SPAN_T1	4	1	-3	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
8/28/2024 9:54	60502	NMAN_T2	0	0	0	0	0	0	0.48	0.7	0	0	0	0	0	0
8/28/2024 9:54	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 9:54	55101	WERT_T1	0	6	6	0	0.22	0.22	-1.84	-1.88	4	4	0	3300	3300	0
8/28/2024 9:55	55101	WERT_T1	0	6	6	0	0.22	0.22	-3.69	-3.76	8	8	0	6600	6600	0
8/28/2024 9:55	42201	SHEN_T2	0	0	0	0	0	0	0.35	0.32	1	1	0	600	600	0
8/28/2024 9:55	57403	SPAN_T1	4	1	-3	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
8/28/2024 9:55	57401	SPAN_T1	1	2	1	4	0	-4	-1.15	-1.11	2	2	0	1200	1200	0
8/28/2024 9:58	55101	WERT_T1	0	6	6	0	0.22	0.22	-1.84	-1.88	4	4	0	3300	3300	0
8/28/2024 9:59	55405	SHER_T1	6	6	0	0.27	0.23	-0.04	-0.17	-0.17	0	0	0	0	0	0
8/28/2024 10:00	66504	SMAN_T2	0	0	0	0	0	0	-1.26	-1	2	2	0	2400	2400	0
8/28/2024 10:00	57002	WHHI_T2	0	0	0	0	0	0	-1.67	-1.63	1	1	0	1200	1200	0
8/28/2024 10:00	63403	HONY_T2	0	0	0	0	0	0	-0.31	-0.26	1	1	0	600	600	0
8/28/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	-0.84	-0.96	0	0	0	0	0	0
8/28/2024 10:00	64904	MILL_T1	0	0	0	0	0	0	0.08	0.16	0	0	0	0	0	0
8/28/2024 10:00	53502	EVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 10:00	15204	SFAR_T2	0	0	0	0	0	0	0.45	0.49	0	0	0	0	0	0
8/28/2024 10:00	55001	NEWP_T1	0	0	0	0	0	0	-0.34	-0.37	1	1	0	600	600	0
8/28/2024 10:00	42903	MIDD_T2	0	0	0	0	0	0	1.18	1.42	1	1	0	1200	1200	0
8/28/2024 10:00	64503	LAVI_T1	0	0	0	0	0	0	-1.29	-1.09	2	2	0	2100	2100	0
8/28/2024 10:00	47403	PENS_T1	1	1	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
8/28/2024 10:00	47401	PENS_T1	3	2	-1	0.43	0.2	-0.23	0.73	0.73	0	0	0	0	0	0
8/28/2024 10:00	45501	DERR_T2	3	5	2	0.73	0.73	0	0.98	1.09	2	2	0	1800	1800	0
8/28/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-1.3	-1.27	2	2	0	1800	1800	0
8/28/2024 10:00	55405	SHER_T1	6	6	0	0.22	0.23	0.01	-0.17	-0.17	0	0	0	0	0	0
8/28/2024 10:00	16006	DORN_T2	0	0	0	0	0	0	1.35	1.43	0	0	0	0	0	0
8/28/2024 10:00	52403	GRPA_T2	0	1	1	0	0	0	-0.23	-0.26	0	0	0	0	0	0
8/28/2024 10:00	67503	WEWI_T2	1	1	0	6.5	6.3	-0.2	0.38	0.44	0	0	0	0	0	0
8/28/2024 10:00	64502	LAVI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 10:00	53501	EVIL_T2	5	18	13	0.42	0.9	0.48	-0.01	-0.01	4	6	2	2400	2800	400
8/28/2024 10:00	45502	DERR_T2	2	5	3	0.25	0.33	0.08	0	0	0	0	0	0	0	0
8/28/2024 10:00	53803	MBRG_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
8/28/2024 10:00	55105	WERT_T1	0	0	0	0	0	0	0.32	0.41	1	1	0	900	900	0
8/28/2024 10:00	55101	WERT_T1	6	5	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/28/2024 10:00	42902	MIDD_T2	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
8/28/2024 10:00	57004	WHHI_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/28/2024 10:00	40505	CRES_T1	1	1	0	0.7	0.2	-0.5	0.83	0.88	0	0	0	0	0	0
8/28/2024 10:03	23102	MOSC_T2	0	0	0	0	0	0	-0.38	-0.69	4	4	0	4200	4200	0
8/28/2024 10:04	47403	PENS_T1	1	1	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
8/28/2024 10:04	58402	MORO_T1	4	0	-4	0.15	0	-0.15	-1.52	-1.52	3	3	0	2400	2400	0
8/28/2024 10:04	47401	PENS_T1	3	2	-1	0.43	0.2	-0.23	0.73	0.73	0	0	0	0	0	0
8/28/2024 10:08	41901	REED_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/28/2024 10:08	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 10:08	29402	BELT_T1	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
8/28/2024 10:08	20403	ASHF_T2	0	0	0	0	0	0	1.76	1.74	0	0	0	0	0	0
8/28/2024 10:08	41902	REED_T1	2	23	21	0.15	5.16	5.01	0.59	0.64	1	1	0	900	900	0
8/28/2024 10:08	45902	AUBU_T1	0	0	0	0	0	0	-0.06	-0.09	1	1	0	600	600	0
8/28/2024 10:08	20401	ASHF_T2	1	5	4	0.7	0.93	0.23	0	0	0	0	0	0	0	0
8/28/2024 10:08	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/28/2024 10:08	66703	STRA_T1	0	0	0	0	0	0	-0.05	0.03	0	0	0	0	0	0
8/28/2024 10:09	57401	SPAN_T1	1	1	0	2.7	0	-2.7	-1.67	-1.66	3	3	0	1800	1800	0
8/28/2024 10:09	66504	SMAN_T2	0	0	0	0	0	0	-0.5	-0.47	1	1	0	1200	1200	0
8/28/2024 10:09	55101	WERT_T1	6	5	-1	0.3	0	-0.3	-1.88	-1.85	4	4	0	3300	3300	0
8/28/2024 10:09	41901	REED_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/28/2024 10:09	41902	REED_T1	2	23	21	0.15	5.16	5.01	0.59	0.64	1	1	0	900	900	0
8/28/2024 10:09	57403	SPAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/28/2024 10:09	55001	NEWP_T1	0	0	0	0	0	0	-0.37	-0.29	1	1	0	600	600	0
8/28/2024 10:10	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 10:10	57401	SPAN_T1	1	1	0	2.7	0	-2.7	-1.11	-1.11	2	2	0	1200	1200	0
8/28/2024 10:10	41901	REED_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/28/2024 10:10	57403	SPAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/28/2024 10:10	41902	REED_T1	2	23	21	0.15	5.16	5.01	0.59	0.64	1	1	0	900	900	0
8/28/2024 10:10	45602	WOOL_T1	0	0	0	0	0	0	1.1	1.13	0	0	0	0	0	0
8/28/2024 10:10	45902	AUBU_T1	0	0	0	0	0	0	-0.06	-0.09	1	1	0	600	600	0
8/28/2024 10:10	42801	SELI_T1	0	0	0	0	0	0	-0.08	-0.1	1	1	0	1200	1200	0
8/28/2024 10:10	64602	LEOL_T1	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
8/28/2024 10:11	48303	ORWI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 10:11	48302	ORWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 10:11	45902	AUBU_T1	0	0	0	0	0	0	-0.17	-0.26	3	3	0	1800	1800	0
8/28/2024 10:11	21501	CEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/28/2024 10:11	46203	DANV_T2	1	3	2	6.9	3.5	-3.4	0	0	0	0	0	0	0	0
8/28/2024 10:11	46206	DANV_T2	53	53	0	0.57	0.47	-0.1	3.09	2.22	1	2	1	1200	2100	900
8/28/2024 10:13	53501	EVIL_T2	5	18	13	0.42	0.9	0.48	-0.01	-0.01	3	3	0	1400	1400	0
8/28/2024 10:13	53502	EVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 10:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/28/2024 10:13	29402	BELT_T1	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
8/28/2024 10:14	45502	DERR_T2	2	5	3	0.25	0.33	0.08	0.19	0.13	1	1	0	300	300	0
8/28/2024 10:14	53502	EVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 10:14	46206	DANV_T2	53	53	0	0.57	0.47	-0.1	3.09	2.22	1	2	1	1200	2100	900
8/28/2024 10:14	45501	DERR_T2	3	5	2	0.73	0.73	0	0	0	0	0	0	0	0	0
8/28/2024 10:14	46203	DANV_T2	1	3	2	6.9	3.5	-3.4	-1.43	-1.41	0	0	0	0	0	0
8/28/2024 10:14	53501	EVIL_T2	5	18	13	0.42	0.9	0.48	-0.03	-0.03	15	15	0	7000	7000	0
8/28/2024 10:15	44301	BEAV_T2	5	9	4	0.68	0.77	0.09	0	0	0	0	0	0	0	0
8/28/2024 10:15	46206	DANV_T2	52	52	0	0.54	0.51	-0.03	3.09	2.22	1	2	1	1200	2100	900
8/28/2024 10:15	45501	DERR_T2	4	9	5	0.63	0.63	0	1.09	1.12	2	2	0	1800	1800	0
8/28/2024 10:15	46203	DANV_T2	2	2	0	3.7	3.4	-0.3	0	0	0	0	0	0	0	0
8/28/2024 10:15	45502	DERR_T2	5	11	6	0.44	0.37	-0.07	0	0	0	0	0	0	0	0
8/28/2024 10:15	46204	DANV_T2	0	12	12	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 10:16	45501	DERR_T2	4	9	5	0.63	0.63	0	1.09	1.12	2	2	0	1800	1800	0
8/28/2024 10:16	53501	EVIL_T2	16	16	0	0.85	0.56	-0.29	-0.01	-0.01	3	3	0	1400	1400	0
8/28/2024 10:16	53502	EVIL_T2	1	1	0	0.2	0	-0.2	0.26	0.22	3	3	0	2100	2100	0
8/28/2024 10:16	57104	SPHI_T2	0	0	0	0	0	0	-1.16	-1.1	1	1	0	900	900	0
8/28/2024 10:16	10801	CHHI_T1	3	0	-3	0.4	0	-0.4	-0.75	-0.69	2	2	0	1500	1500	0
8/28/2024 10:16	57101	SPHI_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
8/28/2024 10:16	45502	DERR_T2	5	11	6	0.44	0.37	-0.07	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/28/2024 10:16	57106	SPHI_T2	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/28/2024 10:17	67503	WEWI_T2	1	1	0	6.1	6.3	0.2	0.44	0.46	0	0	0	0	0	0
8/28/2024 10:18	40101	HUNT_T2	176	123	-53	0.38	0.4	0.02	-0.45	-0.44	0	0	0	0	0	0
8/28/2024 10:19	40101	HUNT_T2	176	123	-53	0.38	0.4	0.02	-0.45	-0.44	0	0	0	0	0	0
8/28/2024 10:20	15603	NSTR_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
8/28/2024 10:20	60502	NMAN_T2	0	0	0	0	0	0	0.7	0.73	0	0	0	0	0	0
8/28/2024 10:20	25402	LAHA_T2	0	0	0	0	0	0	-0.57	-0.53	0	0	0	0	0	0
8/28/2024 10:21	42801	SELI_T1	0	0	0	0	0	0	-0.1	-0.04	1	1	0	1200	1200	0
8/28/2024 10:21	60502	NMAN_T2	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
8/28/2024 10:21	56501	ROCK_T2	1	2	1	1.4	0.2	-1.2	-2.07	-1.91	0	0	0	0	0	0
8/28/2024 10:22	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.4	1	1	0	600	600	0
8/28/2024 10:22	66505	SMAN_T2	0	0	0	0	0	0	0.31	0.57	4	4	0	2300	2300	0
8/28/2024 10:22	56501	ROCK_T2	1	2	1	1.4	0.2	-1.2	-0.64	-0.54	0	0	0	0	0	0
8/28/2024 10:24	55101	WERT_T1	5	0	-5	0.22	0	-0.22	-1.85	-1.85	4	4	0	3300	3300	0
8/28/2024 10:25	59101	WALK_T2	0	0	0	0	0	0	3.61	2.96	4	4	0	2400	2400	0
8/28/2024 10:25	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 10:25	42302	MOWR_T2	0	0	0	0	0	0	0	1.44	0	0	0	0	0	0
8/28/2024 10:25	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 10:25	67605	WARW_T1	0	0	0	0	0	0	-0.93	-0.87	0	0	0	0	0	0
8/28/2024 10:25	55101	WERT_T1	5	0	-5	0.22	0	-0.22	-1.85	-1.85	4	4	0	3300	3300	0
8/28/2024 10:25	56501	ROCK_T2	1	2	1	1.4	0.2	-1.2	-0.64	-0.54	0	0	0	0	0	0
8/28/2024 10:26	60502	NMAN_T2	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
8/28/2024 10:26	55101	WERT_T1	5	0	-5	0.22	0	-0.22	-1.85	-1.85	4	4	0	3300	3300	0
8/28/2024 10:26	56501	ROCK_T2	1	2	1	1.4	0.2	-1.2	-0.64	-0.54	0	0	0	0	0	0
8/28/2024 10:26	14702	TREX_T2	0	0	0	0	0	0	1.43	1.44	0	0	0	0	0	0
8/28/2024 10:27	43402	BENT_T1	0	2	2	0	0.7	0.7	-0.14	-0.16	1	1	0	600	600	0
8/28/2024 10:27	16103	BING_T2	0	0	0	0	0	0	-1.37	-1.34	2	2	0	1500	1500	0
8/28/2024 10:29	67605	WARW_T1	0	0	0	0	0	0	-1.87	-1.74	0	0	0	0	0	0
8/28/2024 10:30	53501	EVIL_T2	14	48	34	0.77	0.55	-0.22	0	0	0	0	0	0	0	0
8/28/2024 10:30	52403	GRPA_T2	1	3	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/28/2024 10:30	58202	NEWV_T1	0	0	0	0	0	0	0.17	0.1	0	0	0	0	0	0
8/28/2024 10:30	50105	HARR_T3	6	6	0	7.72	7.6	-0.12	0	0	0	0	0	0	0	0
8/28/2024 10:30	43402	BENT_T1	2	2	0	0.7	0.5	-0.2	-0.14	-0.16	1	1	0	600	600	0
8/28/2024 10:30	44801	EDAN_T2	51	41	-10	0.47	0.35	-0.12	-1.21	-1.16	0	0	0	0	0	0
8/28/2024 10:30	50107	HARR_T3	1	1	0	7.3	7.6	0.3	0	0	0	0	0	0	0	0
8/28/2024 10:30	59101	WALK_T2	0	0	0	0	0	0	1.81	1.48	2	2	0	1200	1200	0
8/28/2024 10:30	53502	EVIL_T2	1	7	6	0.7	0	-0.7	0.22	0.09	3	3	0	2100	2100	0
8/28/2024 10:30	52404	GRPA_T2	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
8/28/2024 10:30	50103	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/28/2024 10:31	20601	GRWO_T2	5	9	4	0.42	0.1	-0.32	0.42	0.44	1	1	0	1200	1200	0
8/28/2024 10:32	26401	INOR_T1	115	130	15	0.84	1.16	0.32	0	0	0	0	0	0	0	0
8/28/2024 10:32	64204	KINZ_T1	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
8/28/2024 10:32	64203	KINZ_T1	4	4	0	0.8	1.38	0.58	0	0	0	0	0	0	0	0
8/28/2024 10:32	26402	INOR_T1	27	104	77	0.31	0.33	0.02	-1.33	-1.27	1	1	0	600	600	0
8/28/2024 10:32	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 10:32	64201	KINZ_T1	4	9	5	0.38	0.67	0.29	0	0.03	4	4	0	2100	2100	0
8/28/2024 10:32	44801	EDAN_T2	51	41	-10	0.47	0.35	-0.12	-1.21	-1.16	0	0	0	0	0	0
8/28/2024 10:33	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 10:34	48302	ORWI_T2	0	1	1	0	0.2	0.2	-0.19	-0.15	0	0	0	0	0	0
8/28/2024 10:35	46301	ROHR_T1	6	2	-4	1.27	3.8	2.53	0	0	0	0	0	0	0	0
8/28/2024 10:35	53502	EVIL_T2	1	7	6	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/28/2024 10:35	46302	ROHR_T1	5	4	-1	1.08	1.1	0.02	0.26	0.26	0	0	0	0	0	0
8/28/2024 10:35	64802	MONE_T2	1	1	0	0.2	0.4	0.2	0.25	0.28	0	0	0	0	0	0
8/28/2024 10:35	53501	EVIL_T2	14	48	34	0.77	0.55	-0.22	-0.01	-0.01	3	3	0	1400	1400	0
8/28/2024 10:36	54201	PENN_T1	2	3	1	0.55	0.83	0.28	-1.66	-1.6	0	0	0	0	0	0
8/28/2024 10:36	66703	STRA_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
8/28/2024 10:36	54203	PENN_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
8/28/2024 10:36	65001	NEFF_T2	0	0	0	0	0	0	0.39	0.39	1	1	0	1200	1200	0
8/28/2024 10:38	59202	THOM_T1	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/28/2024 10:38	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 10:39	14801	TREI_T2	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
8/28/2024 10:39	46302	ROHR_T1	5	4	-1	1.08	1.1	0.02	0.26	0.27	0	0	0	0	0	0
8/28/2024 10:39	14802	TREI_T2	0	0	0	0	0	0	0.94	0.95	0	0	0	0	0	0
8/28/2024 10:39	46301	ROHR_T1	6	2	-4	1.27	3.8	2.53	0	0	0	0	0	0	0	0
8/28/2024 10:39	16102	BING_T2	0	0	0	0	0	0	-0.08	-0.1	1	1	0	1200	1200	0
8/28/2024 10:40	67603	WARW_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
8/28/2024 10:40	42201	SHEN_T2	0	0	0	0	0	0	0.4	0.44	1	1	0	600	600	0
8/28/2024 10:40	67605	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/28/2024 10:41	59202	THOM_T1	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/28/2024 10:43	16101	BING_T2	0	0	0	0	0	0	0.94	1.01	0	0	0	0	0	0
8/28/2024 10:43	20403	ASHF_T2	0	0	0	0	0	0	1.75	1.76	0	0	0	0	0	0
8/28/2024 10:43	20401	ASHF_T2	4	5	1	1.25	0.73	-0.52	0	0	0	0	0	0	0	0
8/28/2024 10:45	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.87	-0.88	0	0	0	0	0	0
8/28/2024 10:45	53601	DALM_T2	1	0	-1	0.1	0	-0.1	-1.41	-1.43	4	4	0	3000	3000	0
8/28/2024 10:46	52004	LING_T2	2	2	0	4.95	4.8	-0.15	0	0	0	0	0	0	0	0
8/28/2024 10:46	52002	LING_T2	0	0	0	0	0	0	0.72	0.78	0	0	0	0	0	0
8/28/2024 10:48	22602	KIMB_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
8/28/2024 10:48	16402	MOPO_T1	2	3	1	0.6	0.1	-0.5	0.38	0.36	0	0	0	0	0	0
8/28/2024 10:48	47901	HRDG_T1	0	0	0	0	0	0	1.34	1.21	1	1	0	1200	1200	0
8/28/2024 10:50	52004	LING_T2	2	2	0	4.95	4.8	-0.15	0	0	0	0	0	0	0	0
8/28/2024 10:50	52002	LING_T2	0	0	0	0	0	0	0.72	0.78	0	0	0	0	0	0
8/28/2024 10:51	55002	NEWP_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
8/28/2024 10:51	47401	PENS_T1	1	9	8	0.7	0.63	-0.07	1.05	1.2	0	0	0	0	0	0
8/28/2024 10:51	55001	NEWP_T1	1	1	0	0.3	0	-0.3	-0.27	-0.25	1	1	0	600	600	0
8/28/2024 10:51	47403	PENS_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
8/28/2024 10:53	56504	ROCK_T2	0	0	0	0	0	0	-0.55	-0.5	0	0	0	0	0	0
8/28/2024 10:53	56501	ROCK_T2	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0	0
8/28/2024 10:54	48602	POCA_T1	0	1	1	0	0	0	0.18	0.37	1	1	0	1200	1200	0
8/28/2024 10:54	47401	PENS_T1	1	9	8	0.7	0.63	-0.07	0.53	0.6	0	0	0	0	0	0
8/28/2024 10:54	47403	PENS_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
8/28/2024 11:00	52002	LING_T2	0	0	0	0	0	0	0.78	0.79	0	0	0	0	0	0
8/28/2024 11:00	52004	LING_T2	2	2	0	4.8	4.65	-0.15	0	0	0	0	0	0	0	0
8/28/2024 11:01	64201	KINZ_T1	8	4	-4	0.58	0	-0.58	-0.02	0	4	4	0	2100	2100	0
8/28/2024 11:01	64204	KINZ_T1	2	4	2	0.3	0.43	0.13	0	0	0	0	0	0	0	0
8/28/2024 11:01	52004	LING_T2	2	2	0	4.8	4.65	-0.15	0.51	0.57	0	0	0	0	0	0
8/28/2024 11:01	11101	EGYP_T1	1	1	0	1.5	0.7	-0.8	0	0	0	0	0	0	0	0
8/28/2024 11:01	11102	EGYP_T1	4	3	-1	1.48	1.27	-0.21	0	0	0	0	0	0	0	0
8/28/2024 11:01	46801	HEPB_T2	0	2	2	0	0.85	0.85	1.17	0.32	0	0	0	0	0	0
8/28/2024 11:01	11104	EGYP_T1	5	6	1	0.6	1.7	1.1	1.1	1.14	0	0	0	0	0	0
8/28/2024 11:01	64203	KINZ_T1	4	6	2	1.43	1.33	-0.1	0.66	0.55	3	3	0	2100	2100	0
8/28/2024 11:02	11102	EGYP_T1	4	3	-1	1.48	1.27	-0.21	0	0	0	0	0	0	0	0
8/28/2024 11:02	45802	HEGI_T2	5	4	-1	0.18	0	-0.18	0.53	0.53	1	1	0	900	900	0
8/28/2024 11:02	11101	EGYP_T1	1	1	0	1.5	0.7	-0.8	0	0	0	0	0	0	0	0
8/28/2024 11:02	11104	EGYP_T1	5	6	1	0.6	1.7	1.1	1.1	1.14	0	0	0	0	0	0
8/28/2024 11:03	64204	KINZ_T1	2	4	2	0.3	0.43	0.13	0	0	0	0	0	0	0	0
8/28/2024 11:03	46801	HEPB_T2	0	2	2	0	0.85	0.85	1.17	0.32	0	0	0	0	0	0
8/28/2024 11:03	64201	KINZ_T1	8	4	-4	0.58	0	-0.58	-0.02	0	4	4	0	2100	2100	0
8/28/2024 11:03	64203	KINZ_T1	4	6	2	1.43	1.33	-0.1	0	0	0	0	0	0	0	0
8/28/2024 11:04	67804	WLAN_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
8/28/2024 11:04	52004	LING_T2	2	2	0	4.8	4.65	-0.15	0.51	0.57	0	0	0	0	0	0
8/28/2024 11:04	67801	WLAN_T1	2	7	5	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/28/2024 11:04	52002	LING_T2	0	0	0	0	0	0	0.78	0.79	0	0	0	0	0	0
8/28/2024 11:04	67805	WLAN_T1	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
8/28/2024 11:05	12402	MILF_T1	122	74	-48	0.82	0.63	-0.19	1.17	0.65	0	1	1	0	1200	1200
8/28/2024 11:06	17001	RIRO_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
8/28/2024 11:06	42601	TUSC_T1	0	7	7	0	0	0	-0.49	-0.4	2	2	0	1800	1800	0
8/28/2024 11:07	44202	POIN_T2	0	0	0	0	0	0	-0.74	-0.7	2	2	0	1800	1800	0
8/28/2024 11:07	47401	PENS_T1	2	5	3	0.3	0.75	0.45	0.6	0.57	0	0	0	0	0	0
8/28/2024 11:07	10109	ALLE_T3	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
8/28/2024 11:07	46302	ROHR_T1	4	5	1	0.88	0.9	0.02	0.3	0.31	0	0	0	0	0	0
8/28/2024 11:07	64101	REFR_T1	1	3	2	0.1	0.73	0.63	2.22	2.61	0	0	0	0	0	0
8/28/2024 11:07	67203	TEHI_T1	38	7	-31	0.81	0.43	-0.38	2.88	2.91	3	3	0	2100	2100	0
8/28/2024 11:07	42601	TUSC_T1	0	7	7	0	0	0	-0.49	-0.4	2	2	0	1800	1800	0
8/28/2024 11:07	10103	ALLE_T3	3	6	3	0.7	0.85	0.15	0	0	0	0	0	0	0	0
8/28/2024 11:07	56501	ROCK_T2	1	10	9	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
8/28/2024 11:07	10105	ALLE_T3	0	7	7	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 11:07	46301	ROHR_T1	1	2	1	6.1	3.7	-2.4	0	0	0	0	0	0	0	0
8/28/2024 11:07	67201	TEHI_T1	23	0	-23	0.87	0	-0.87	0	0	0	0	0	0	0	0
8/28/2024 11:07	56504	ROCK_T2	0	0	0	0	0	0	-1.5	-1.4	0	0	0	0	0	0
8/28/2024 11:07	10205	ALLE_T3	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
8/28/2024 11:07	10101	ALLE_T3	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
8/28/2024 11:07	52102	MEIS_T1	0	1	1	0	0	0	0	0	1	1	0	450	450	0
8/28/2024 11:07	44203	POIN_T2	7	8	1	0.51	0.38	-0.13	0	0	0	0	0	0	0	0
8/28/2024 11:07	47403	PENS_T1	1	1	0	2.2	1.6	-0.6	0	0	0	0	0	0	0	0
8/28/2024 11:08	47403	PENS_T1	1	1	0	2.2	1.6	-0.6	0	0	0	0	0	0	0	0
8/28/2024 11:08	47401	PENS_T1	2	5	3	0.3	0.75	0.45	0.6	0.57	0	0	0	0	0	0
8/28/2024 11:08	56501	ROCK_T2	1	10	9	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
8/28/2024 11:08	64101	REFR_T1	1	3	2	0.1	0.73	0.63	0.89	1.04	0	0	0	0	0	0
8/28/2024 11:08	56504	ROCK_T2	0	0	0	0	0	0	-1.5	-1.4	0	0	0	0	0	0
8/28/2024 11:09	29401	BELT_T1	19	24	5	0.13	0.14	0.01	0	0	1	1	0	900	900	0
8/28/2024 11:09	29402	BELT_T1	7	9	2	1.6	1.29	-0.31	0	0	0	0	0	0	0	0
8/28/2024 11:09	64101	REFR_T1	1	3	2	0.1	0.73	0.63	0.44	0.52	0	0	0	0	0	0
8/28/2024 11:09	47403	PENS_T1	1	1	0	2.2	1.6	-0.6	0	0	0	0	0	0	0	0
8/28/2024 11:09	47401	PENS_T1	2	5	3	0.3	0.75	0.45	0.6	0.57	0	0	0	0	0	0
8/28/2024 11:10	46302	ROHR_T1	4	5	1	0.88	0.9	0.02	0.3	0.31	0	0	0	0	0	0
8/28/2024 11:10	64101	REFR_T1	1	3	2	0.1	0.73	0.63	0.44	0.52	0	0	0	0	0	0
8/28/2024 11:10	46301	ROHR_T1	1	2	1	6.1	3.7	-2.4	0	0	0	0	0	0	0	0
8/28/2024 11:10	60101	COCA_T1	0	1	1	0	0.3	0.3	-0.27	-0.21	1	1	0	1200	1200	0
8/28/2024 11:11	61102	BERK_T5	0	0	0	0	0	0	0.43	0.54	4	4	0	2400	2400	0
8/28/2024 11:11	16006	DORN_T2	0	0	0	0	0	0	0.25	0.33	1	1	0	1200	1200	0
8/28/2024 11:11	29402	BELT_T1	7	9	2	1.6	1.29	-0.31	0	0	0	0	0	0	0	0
8/28/2024 11:11	29401	BELT_T1	19	24	5	0.13	0.14	0.01	0	0	1	1	0	900	900	0
8/28/2024 11:12	61102	BERK_T5	0	0	0	0	0	0	0.22	0.27	2	2	0	1200	1200	0
8/28/2024 11:12	60101	COCA_T1	0	1	1	0	0.3	0.3	-0.54	-0.42	2	2	0	2400	2400	0
8/28/2024 11:12	29402	BELT_T1	7	9	2	1.6	1.29	-0.31	0	0	0	0	0	0	0	0
8/28/2024 11:12	29401	BELT_T1	19	24	5	0.13	0.14	0.01	0	0	0	0	0	0	0	0
8/28/2024 11:13	61102	BERK_T5	0	0	0	0	0	0	0.22	0.27	2	2	0	1200	1200	0
8/28/2024 11:13	55101	WERT_T1	10	65	55	0.31	0.72	0.41	-1.69	-1.64	4	4	0	3300	3300	0
8/28/2024 11:14	22901	HARW_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
8/28/2024 11:14	61102	BERK_T5	0	0	0	0	0	0	0.22	0.27	2	2	0	1200	1200	0
8/28/2024 11:14	22905	HARW_T1	8	0	-8	0.34	0	-0.34	0	0	0	0	0	0	0	0
8/28/2024 11:14	22903	HARW_T1	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
8/28/2024 11:15	44801	EDAN_T2	21	17	-4	0.35	0.34	-0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/28/2024 11:15	21206	ECAR_T2	2	6	4	6.35	7.1	0.75	0	0	0	0	0	0	0	0
8/28/2024 11:15	44802	EDAN_T2	0	0	0	0	0	0	-1.44	-1.31	0	0	0	0	0	0
8/28/2024 11:15	21204	ECAR_T2	1	1	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
8/28/2024 11:16	44802	EDAN_T2	0	0	0	0	0	0	-1.44	-1.31	0	0	0	0	0	0
8/28/2024 11:16	44801	EDAN_T2	21	17	-4	0.35	0.34	-0.01	0	0	0	0	0	0	0	0
8/28/2024 11:17	64203	KINZ_T1	6	5	-1	1.03	1.25	0.22	0.55	0.73	3	3	0	2100	2100	0
8/28/2024 11:17	64201	KINZ_T1	4	1	-3	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/28/2024 11:17	52401	GRPA_T2	3	0	-3	0.57	0	-0.57	0	0	0	0	0	0	0	0
8/28/2024 11:17	44801	EDAN_T2	21	17	-4	0.35	0.34	-0.01	0	0	0	0	0	0	0	0
8/28/2024 11:17	64202	KINZ_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/28/2024 11:17	44802	EDAN_T2	0	0	0	0	0	0	-4.31	-3.93	0	0	0	0	0	0
8/28/2024 11:17	28702	HAML_T2	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
8/28/2024 11:17	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 11:17	64204	KINZ_T1	2	4	2	0.35	0.43	0.08	0	0	0	0	0	0	0	0
8/28/2024 11:17	52402	GRPA_T2	3	0	-3	0.3	0	-0.3	-0.49	-0.44	0	0	0	0	0	0
8/28/2024 11:17	23202	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
8/28/2024 11:17	11507	FREE_T2	39	80	41	0.65	0.63	-0.02	0.88	0.82	1	1	0	600	600	0
8/28/2024 11:20	53501	EVIL_T2	64	245	181	0.54	0.54	0	-0.01	-0.01	3	3	0	1400	1400	0
8/28/2024 11:20	53502	EVIL_T2	4	8	4	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
8/28/2024 11:20	43201	MVIL_T2	4	15	11	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
8/28/2024 11:20	43202	MVIL_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
8/28/2024 11:23	14704	TREX_T1	1	1	0	2.8	0	-2.8	0	0	0	0	0	0	0	0
8/28/2024 11:23	53501	EVIL_T2	64	245	181	0.54	0.54	0	-0.02	-0.02	9	9	0	4200	4200	0
8/28/2024 11:23	47403	PENS_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
8/28/2024 11:23	47401	PENS_T1	4	4	0	0.78	0.43	-0.35	0.57	0.64	0	0	0	0	0	0
8/28/2024 11:23	56501	ROCK_T2	2	10	8	0.85	0.24	-0.61	-6.59	-6.5	0	0	0	0	0	0
8/28/2024 11:23	43201	MVIL_T2	4	15	11	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
8/28/2024 11:23	53502	EVIL_T2	4	8	4	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
8/28/2024 11:23	43202	MVIL_T2	0	0	0	0	0	0	-0.36	-0.33	0	0	0	0	0	0
8/28/2024 11:23	67201	TEHI_T1	0	4	4	0	0.2	0.2	0.77	0.68	2	2	0	1500	1500	0
8/28/2024 11:23	64101	REFR_T1	3	10	7	0.73	1.23	0.5	1.04	0.75	0	0	0	0	0	0
8/28/2024 11:23	14705	TREX_T1	0	1	1	0	0	0	0.46	0.49	0	0	0	0	0	0
8/28/2024 11:23	67203	TEHI_T1	7	6	-1	0.43	1.1	0.67	0	0	0	0	0	0	0	0
8/28/2024 11:24	57403	SPAN_T1	1	1	0	0.7	0.4	-0.3	0.54	0.59	0	0	0	0	0	0
8/28/2024 11:24	57401	SPAN_T1	2	2	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/28/2024 11:24	47403	PENS_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
8/28/2024 11:24	53803	MBRG_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
8/28/2024 11:24	53501	EVIL_T2	64	245	181	0.54	0.54	0	-0.01	-0.01	3	3	0	1400	1400	0
8/28/2024 11:24	47401	PENS_T1	4	4	0	0.78	0.43	-0.35	1.15	1.27	0	0	0	0	0	0
8/28/2024 11:24	53502	EVIL_T2	4	8	4	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
8/28/2024 11:25	20403	ASHF_T2	0	6	6	0	0.1	0.1	1.91	1.89	0	0	0	0	0	0
8/28/2024 11:25	20401	ASHF_T2	5	6	1	1.14	1.64	0.5	0	0	0	0	0	0	0	0
8/28/2024 11:25	20402	ASHF_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
8/28/2024 11:26	20403	ASHF_T2	0	6	6	0	0.1	0.1	1.91	1.89	0	0	0	0	0	0
8/28/2024 11:26	20401	ASHF_T2	5	6	1	1.14	1.64	0.5	0	0	0	0	0	0	0	0
8/28/2024 11:26	20402	ASHF_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
8/28/2024 11:28	47403	PENS_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
8/28/2024 11:28	53601	DALM_T2	0	0	0	0	0	0	-0.67	-0.67	2	2	0	1500	1500	0
8/28/2024 11:28	60101	COCA_T1	0	2	2	0	0.2	0.2	-0.63	-0.6	3	3	0	3600	3600	0
8/28/2024 11:28	10805	CHHI_T2	2	6	4	4.7	9	4.3	-0.87	-0.84	2	2	0	1800	1800	0
8/28/2024 11:28	67502	WEWI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 11:28	29402	BELT_T1	8	5	-3	1.39	2.18	0.79	0	0	0	0	0	0	0	0
8/28/2024 11:28	47401	PENS_T1	4	4	0	0.78	0.43	-0.35	1.72	1.91	0	0	0	0	0	0
8/28/2024 11:28	29401	BELT_T1	22	13	-9	0.13	0.14	0.01	0	0	0	0	0	0	0	0
8/28/2024 11:28	67503	WEWI_T2	1	1	0	5	4.6	-0.4	0.61	0.59	0	0	0	0	0	0
8/28/2024 11:28	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 11:30	67502	WEWI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 11:30	67503	WEWI_T2	1	1	0	4.6	4	-0.6	0.61	0.59	0	0	0	0	0	0
8/28/2024 11:30	60101	COCA_T1	1	2	1	0.3	0.3	0	-0.21	-0.2	1	1	0	1200	1200	0
8/28/2024 11:32	41002	LAUR_T2	4	4	0	0.85	0.55	-0.3	0.3	0.3	0	0	0	0	0	0
8/28/2024 11:32	41001	LAUR_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/28/2024 11:33	10805	CHHI_T2	3	5	2	4	2.25	-1.75	-0.87	-0.84	2	2	0	1800	1800	0
8/28/2024 11:34	15603	NSTR_T2	0	0	0	0	0	0	0	-0.17	0	0	0	0	0	0
8/28/2024 11:35	65804	RTWN_T1	0	0	0	0	0	0	1.34	1.26	1	1	0	600	600	0
8/28/2024 11:37	25501	MADI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/28/2024 11:37	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 11:37	25503	MADI_T1	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
8/28/2024 11:37	66703	STRA_T1	0	0	0	0	0	0	0.24	0.39	0	0	0	0	0	0
8/28/2024 11:37	66701	STRA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 11:38	66701	STRA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 11:38	25603	ARRO_T1	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
8/28/2024 11:38	43108	SMIL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
8/28/2024 11:38	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/28/2024 11:38	66703	STRA_T1	0	0	0	0	0	0	0.24	0.39	0	0	0	0	0	0
8/28/2024 11:38	64101	REFR_T1	3	10	7	1.23	0.13	-1.1	0.38	-0.05	0	0	0	0	0	0
8/28/2024 11:38	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 11:38	43103	SMIL_T2	0	0	0	0	0	0	-2.87	-2.71	0	0	0	0	0	0
8/28/2024 11:39	64101	REFR_T1	3	10	7	1.23	0.13	-1.1	0.75	-0.11	0	0	0	0	0	0
8/28/2024 11:39	25603	ARRO_T1	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
8/28/2024 11:40	53501	EVIL_T2	110	318	208	0.52	0.52	0	-0.01	-0.01	3	3	0	1400	1400	0
8/28/2024 11:40	66703	STRA_T1	0	0	0	0	0	0	0.49	0.78	0	0	0	0	0	0
8/28/2024 11:40	53502	EVIL_T2	4	18	14	0.18	0.24	0.06	0	0	0	0	0	0	0	0
8/28/2024 11:40	66701	STRA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 11:40	42701	AUGU_T1	0	1	1	0	0	0	0	0	2	2	0	1800	1800	0
8/28/2024 11:41	61102	BERK_T5	0	0	0	0	0	0	0.23	0.23	2	2	0	1200	1200	0
8/28/2024 11:41	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 11:41	67605	WARW_T1	1	2	1	0.3	0.55	0.25	-0.73	-0.73	0	0	0	0	0	0
8/28/2024 11:42	61102	BERK_T5	0	0	0	0	0	0	0.23	0.23	2	2	0	1200	1200	0
8/28/2024 11:43	11804	FRAN_T1	32	123	91	0.54	0.46	-0.08	2.04	1.94	0	0	0	0	0	0
8/28/2024 11:44	67605	WARW_T1	1	2	1	0.3	0.55	0.25	-0.73	-0.73	0	0	0	0	0	0
8/28/2024 11:44	45502	DERR_T2	27	20	-7	0.61	0.69	0.08	0	0	0	0	0	0	0	0
8/28/2024 11:44	45502	DERR_T2	66	42	-24	0.48	0.49	0.01	0.17	0.19	1	1	0	300	300	0
8/28/2024 11:46	63403	HONY_T2	0	0	0	0	0	0	-1.7	-1.72	1	1	0	600	600	0
8/28/2024 11:46	22803	HAUT_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 11:46	53502	EVIL_T2	8	18	10	0.31	0.18	-0.13	0	0	0	0	0	0	0	0
8/28/2024 11:46	53501	EVIL_T2	221	304	83	0.59	0.48	-0.11	-0.01	-0.01	3	3	0	1400	1400	0
8/28/2024 11:46	47202	FAXO_T2	0	0	0	0	0	0	-1.71	-1.67	0	0	0	0	0	0
8/28/2024 11:46	23401	HONE_T2	19	14	-5	0.42	0.32	-0.1	0.54	0.54	0	0	0	0	0	0
8/28/2024 11:46	22805	HAUT_T2	4	0	-4	0.15	0	-0.15	-1.26	-1.23	1	1	0	1200	1200	0
8/28/2024 11:47	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 11:47	21206	ECAR_T2	6	6	0	1.48	7.1	5.62	0.9	1.04	0	0	0	0	0	0
8/28/2024 11:48	57401	SPAN_T1	1	1	0	8.9	0	-8.9	-0.3	-0.35	1	1	0	600	600	0
8/28/2024 11:48	57403	SPAN_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/28/2024 11:48	53502	EVIL_T2	8	18	10	0.31	0.18	-0.13	0.05	0.3	3	3	0	2100	2100	0
8/28/2024 11:48	53501	EVIL_T2	221	304	83	0.59	0.48	-0.11	0	0	0	0	0	0	0	0
8/28/2024 11:49	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 11:49	13503	MCMI_T2	1	2	1	0.2	0.15	-0.05	0.11	-1.44	0	0	0	0	0	0
8/28/2024 11:49	46503	LOHA_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
8/28/2024 11:49	44801	EDAN_T2	11	8	-3	0.48	0.56	0.08	-2.28	-2.2	0	0	0	0	0	0
8/28/2024 11:49	46504	LOHA_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 11:49	40101	HUNT_T2	491	642	151	1	0.94	-0.06	0	0	0	0	0	0	0	0
8/28/2024 11:50	53501	EVIL_T2	221	304	83	0.59	0.48	-0.11	0	0	0	0	0	0	0	0
8/28/2024 11:50	53502	EVIL_T2	8	18	10	0.31	0.18	-0.13	0.05	0.3	3	3	0	2100	2100	0
8/28/2024 11:50	46504	LOHA_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 11:50	46503	LOHA_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
8/28/2024 11:50	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 11:51	13604	RICH_T2	0	0	0	0	0	0	-1.94	-2.01	3	3	0	2100	2100	0
8/28/2024 11:51	44203	POIN_T2	9	4	-5	0.39	0	-0.39	-0.19	-0.22	3	3	0	3300	3300	0
8/28/2024 11:51	13606	RICH_T2	2	1	-1	1	0	-1	0	0	0	0	0	0	0	0
8/28/2024 11:51	57201	ROSS_T1	0	0	0	0	0	0	-0.83	-0.72	0	0	0	0	0	0
8/28/2024 11:53	67804	WLAN_T1	7	8	1	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
8/28/2024 11:53	67801	WLAN_T1	1	8	7	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/28/2024 11:53	67805	WLAN_T1	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
8/28/2024 11:54	57401	SPAN_T1	1	1	0	8.9	0	-8.9	-0.35	-0.34	1	1	0	600	600	0
8/28/2024 11:54	64101	REFR_T1	10	11	1	0.87	0.13	-0.74	-0.05	-0.03	0	0	0	0	0	0
8/28/2024 11:54	57403	SPAN_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/28/2024 11:55	40601	PIGR_T1	1	2	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/28/2024 11:55	40603	PIGR_T1	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
8/28/2024 11:55	57403	SPAN_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/28/2024 11:55	42701	AUGU_T1	0	1	1	0	0	0	0	0	2	2	0	1800	1800	0
8/28/2024 11:55	57401	SPAN_T1	1	1	0	8.9	0	-8.9	-0.35	-0.34	1	1	0	600	600	0
8/28/2024 11:55	40602	PIGR_T1	1	1	0	1.3	0.7	-0.6	-0.87	-0.8	1	1	0	600	600	0
8/28/2024 11:56	42701	AUGU_T1	0	1	1	0	0	0	0	0	2	2	0	1800	1800	0
8/28/2024 11:56	13702	SCHN_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
8/28/2024 11:57	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 11:58	45501	DERR_T2	19	21	2	0.64	0.55	-0.09	1.24	1.24	2	2	0	1800	1800	0
8/28/2024 11:58	45502	DERR_T2	39	48	9	0.47	0.41	-0.06	0	0	0	0	0	0	0	0
8/28/2024 11:59	45501	DERR_T2	19	21	2	0.64	0.55	-0.09	3.73	3.71	6	6	0	5400	5400	0
8/28/2024 11:59	47001	HUGH_T2	3	3	0	7.2	7.63	0.43	-0.89	-0.78	1	1	0	900	900	0
8/28/2024 11:59	29401	BELT_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/28/2024 11:59	61701	ELIZ_T1	3	6	3	0.9	0.97	0.07	2.32	2.16	0	0	0	0	0	0
8/28/2024 11:59	45502	DERR_T2	39	48	9	0.47	0.41	-0.06	0	0	0	0	0	0	0	0
8/28/2024 11:59	11904	ETEX_T2	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
8/28/2024 11:59	61703	ELIZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 11:59	11901	ETEX_T2	0	0	0	0	0	0	0.7	0.74	0	0	0	0	0	0
8/28/2024 11:59	29402	BELT_T1	4	2	-2	2.58	4.65	2.07	0	0	0	0	0	0	0	0
8/28/2024 11:59	10801	CHHI_T1	1	6	5	0.2	0.6	0.4	-1.14	-1.12	3	3	0	2100	2100	0
8/28/2024 12:00	12701	MACU_T1	0	0	0	0	0	0	-0.69	-0.74	1	1	0	1200	1200	0
8/28/2024 12:00	63302	GREE_T1	0	0	0	0	0	0	0.43	0.33	0	0	0	0	0	0
8/28/2024 12:00	44801	EDAN_T2	7	8	1	0.63	0.59	-0.04	-1.1	-1.04	0	0	0	0	0	0
8/28/2024 12:01	61703	ELIZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 12:01	45501	DERR_T2	12	21	9	0.67	0.48	-0.19	1.24	1.24	2	2	0	1800	1800	0
8/28/2024 12:01	61701	ELIZ_T1	2	7	5	1.3	0.9	-0.4	4.65	4.32	0	0	0	0	0	0
8/28/2024 12:01	45502	DERR_T2	24	49	25	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
8/28/2024 12:04	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/28/2024 12:04	47001	HUGH_T2	3	3	0	7.37	7.5	0.13	-0.89	-0.78	1	1	0	900	900	0
8/28/2024 12:05	64903	MILL_T2	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/28/2024 12:05	64902	MILL_T2	0	0	0	0	0	0	-0.37	-0.33	1	1	0	900	900	0
8/28/2024 12:07	23002	SAJO_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/28/2024 12:07	23001	SAJO_T1	0	0	0	0	0	0	-1.07	-1.05	0	0	0	0	0	0
8/28/2024 12:07	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 12:07	16203	POFA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/28/2024 12:08	59202	THOM_T1	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/28/2024 12:09	54201	PENN_T1	3	3	0	0.77	0.9	0.13	-1.56	-1.61	0	0	0	0	0	0
8/28/2024 12:09	54203	PENN_T1	5	5	0	0.32	0.1	-0.22	0	0	0	0	0	0	0	0
8/28/2024 12:10	59202	THOM_T1	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
8/28/2024 12:11	61703	ELIZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 12:11	61701	ELIZ_T1	2	7	5	1.3	0.9	-0.4	2.16	2.5	0	0	0	0	0	0
8/28/2024 12:14	57401	SPAN_T1	1	2	1	0.9	0	-0.9	-0.34	-0.23	1	1	0	600	600	0
8/28/2024 12:14	57403	SPAN_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/28/2024 12:14	11507	FREE_T2	88	34	-54	0.62	0.44	-0.18	0.9	1.02	1	1	0	600	600	0
8/28/2024 12:15	60101	COCA_T1	2	1	-1	0.45	0.4	-0.05	-0.12	-0.08	1	1	0	1200	1200	0
8/28/2024 12:15	61703	ELIZ_T1	2	0	-2	0.25	0	-0.25	-11.87	-11.72	10	10	0	10500	10500	0
8/28/2024 12:15	61701	ELIZ_T1	6	2	-4	0.75	0.9	0.15	0	0	0	0	0	0	0	0
8/28/2024 12:16	61701	ELIZ_T1	6	2	-4	0.75	0.9	0.15	2.16	2.5	0	0	1	0	0	0
8/28/2024 12:16	61703	ELIZ_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/28/2024 12:16	28805	LAKE_T1	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
8/28/2024 12:17	60101	COCA_T1	2	1	-1	0.45	0.4	-0.05	-0.12	-0.08	1	1	0	1200	1200	0
8/28/2024 12:17	67502	WEWI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
8/28/2024 12:17	42903	MIDD_T2	0	0	0	0	0	0	0.72	0.7	1	1	0	1200	1200	0
8/28/2024 12:17	12304	LANA_T2	7	17	10	0.34	0.55	0.21	0	0	0	0	0	0	0	0
8/28/2024 12:17	61701	ELIZ_T1	6	2	-4	0.75	0.9	0.15	2.16	2.5	0	0	0	0	0	0
8/28/2024 12:17	42902	MIDD_T2	1	2	1	1.9	2.2	0.3	0	0	0	0	0	0	0	0
8/28/2024 12:17	12301	LANA_T2	1	1	0	3.5	3.9	0.4	0	0	0	0	0	0	0	0
8/28/2024 12:17	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 12:17	12302	LANA_T2	0	0	0	0	0	0	-1.82	-1.79	3	3	0	2700	2700	0
8/28/2024 12:17	67503	WEWI_T2	1	1	0	3.6	4	0.4	0.71	0.33	0	0	0	0	0	0
8/28/2024 12:17	61703	ELIZ_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/28/2024 12:17	12305	LANA_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/28/2024 12:18	60902	DONG_T2	0	2	2	0	0	0	0.71	0.68	0	0	0	0	0	0
8/28/2024 12:18	12801	MICK_T1	0	0	0	0	0	0	0.04	0.02	1	1	0	600	600	0
8/28/2024 12:18	60901	DONG_T2	7	16	9	1.7	1.26	-0.44	0	0	0	0	0	0	0	0
8/28/2024 12:18	43201	MVIL_T2	23	28	5	0.58	0.53	-0.05	-0.92	-0.99	0	0	0	0	0	0
8/28/2024 12:21	52403	GRPA_T2	2	1	-1	0.3	0.8	0.5	-0.18	-0.19	0	0	0	0	0	0
8/28/2024 12:21	40101	HUNT_T2	638	465	-173	1.09	1.06	-0.03	-0.97	-0.92	0	0	0	0	0	0
8/28/2024 12:21	58402	MORO_T1	1	4	3	0.7	0.57	-0.13	0	0	0	0	0	0	0	0
8/28/2024 12:21	58401	MORO_T1	4	7	3	0.93	0.66	-0.27	-1.75	-1.76	2	2	0	1500	1500	0
8/28/2024 12:21	52404	GRPA_T2	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
8/28/2024 12:21	52402	GRPA_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
8/28/2024 12:21	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/28/2024 12:21	10801	CHHI_T1	4	8	4	0.5	0.8	0.3	-1.06	-1.03	3	3	0	2100	2100	0
8/28/2024 12:21	15603	NSTR_T2	0	0	0	0	0	0	-0.12	-0.09	0	0	0	0	0	0
8/28/2024 12:22	64902	MILL_T2	0	0	0	0	0	0	-0.42	-0.34	1	1	0	900	900	0
8/28/2024 12:22	43802	SWIL_T1	0	0	0	0	0	0	1.18	1.19	0	0	0	0	0	0
8/28/2024 12:22	57401	SPAN_T1	0	6	6	0	0	0	-0.23	-0.31	1	1	0	600	600	0
8/28/2024 12:22	43801	SWIL_T1	1	2	1	5.3	2.65	-2.65	0	0	0	0	0	0	0	0
8/28/2024 12:22	58401	MORO_T1	4	7	3	0.93	0.66	-0.27	-1.76	-1.79	2	2	0	1500	1500	0
8/28/2024 12:22	58402	MORO_T1	1	4	3	0.7	0.57	-0.13	0	0	0	0	0	0	0	0
8/28/2024 12:22	64903	MILL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/28/2024 12:23	45302	WBER_T2	0	1	1	0	0	0	1.37	1.47	0	0	0	0	0	0
8/28/2024 12:25	67201	TEHI_T1	3	3	0	0.47	0.43	-0.04	0.55	0.68	2	2	0	1500	1500	0
8/28/2024 12:25	67203	TEHI_T1	3	36	33	1.67	0.85	-0.82	0	0	0	0	0	0	0	0
8/28/2024 12:25	57401	SPAN_T1	0	6	6	0	0	0	-0.23	-0.31	1	1	0	600	600	0
8/28/2024 12:26	67602	WARW_T2	0	0	0	0	0	0	0.82	0.05	1	2	1	300	1500	1200
8/28/2024 12:26	43802	SWIL_T1	0	0	0	0	0	0	1.18	1.19	0	0	0	0	0	0
8/28/2024 12:26	43801	SWIL_T1	1	2	1	5.3	2.65	-2.65	0	0	0	0	0	0	0	0
8/28/2024 12:27	45302	WBER_T2	0	1	1	0	0	0	1.37	1.47	0	0	0	0	0	0
8/28/2024 12:27	67602	WARW_T2	0	0	0	0	0	0	1.64	0.1	2	4	2	600	3000	2400
8/28/2024 12:28	67602	WARW_T2	0	0	0	0	0	0	0.82	0.05	1	2	1	300	1500	1200
8/28/2024 12:28	53902	HALI_T2	1	1	0	3.7	3.6	-0.1	-0.41	-0.38	0	0	0	0	0	0
8/28/2024 12:30	11601	CEAL_T1	0	1	1	0	0.4	0.4	0	0	1	1	0	1200	1200	0
8/28/2024 12:30	47001	HUGH_T2	3	3	0	7.3	6.9	-0.4	-0.88	-0.81	1	1	0	900	900	0
8/28/2024 12:30	11604	CEAL_T1	4	5	1	1.08	0.1	-0.98	0	0	0	0	0	0	0	0
8/28/2024 12:30	29402	BELT_T1	2	4	2	4.25	4.3	0.05	0	0	0	0	0	0	0	0
8/28/2024 12:30	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/28/2024 12:31	63602	LETO_T1	0	1	1	0	0	0	-0.07	0.14	1	1	0	600	600	0
8/28/2024 12:31	25402	LAHA_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
8/28/2024 12:32	51603	DUKE_T1	0	0	0	0	0	0	0.59	0.55	0	0	0	0	0	0
8/28/2024 12:33	64704	LITI_T1	0	0	0	0	0	0	0.58	0.61	1	1	0	600	600	0
8/28/2024 12:33	64701	LITI_T1	10	11	1	0.99	0.8	-0.19	0	0	0	0	0	0	0	0
8/28/2024 12:33	44801	EDAN_T2	8	9	1	0.59	0.59	0	-1.08	-0.99	0	0	0	0	0	0
8/28/2024 12:33	40902	JESH_T1	0	0	0	0	0	0	-0.84	-0.74	4	4	0	2400	2400	0
8/28/2024 12:33	40101	HUNT_T2	448	462	14	1.06	1.14	0.08	-0.97	-0.92	0	0	0	0	0	0
8/28/2024 12:33	40901	JESH_T1	1	1	0	1.5	1.8	0.3	0	0	0	0	0	0	0	0
8/28/2024 12:34	43201	MVIL_T2	15	28	13	0.54	0.57	0.03	-0.99	-1	0	0	0	0	0	0
8/28/2024 12:36	40101	HUNT_T2	448	462	14	1.06	1.14	0.08	-1.83	-1.78	0	0	0	0	0	0
8/28/2024 12:36	64902	MILL_T2	0	0	0	0	0	0	-0.34	-0.3	1	1	0	900	900	0
8/28/2024 12:36	53802	MBRG_T2	0	0	0	0	0	0	1.08	1.22	0	0	0	0	0	0
8/28/2024 12:37	15603	NSTR_T2	0	0	0	0	0	0	-0.09	-0.04	0	0	0	0	0	0
8/28/2024 12:38	55001	NEWP_T1	0	0	0	0	0	0	-0.13	-0.13	1	1	0	600	600	0
8/28/2024 12:38	55002	NEWP_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
8/28/2024 12:41	14303	SUMN_T1	8	0	0	3.25	3.3	0.05	0	0	0	0	0	0	0	0
8/28/2024 12:41	14306	SUMN_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/28/2024 12:41	14308	SUMN_T1	3	9	6	0.33	0.2	-0.13	0.37	0.37	0	0	0	0	0	0
8/28/2024 12:42	14702	TREX_T2	0	0	0	0	0	0	3.54	3.46	0	0	0	0	0	0
8/28/2024 12:42	67602	WARW_T2	0	0	0	0	0	0	0.05	0.1	2	2	0	1500	1500	0
8/28/2024 12:44	11104	EGYP_T1	6	11	5	1.6	2.1	0.5	1.02	1	0	0	0	0	0	0
8/28/2024 12:44	11101	EGYP_T1	2	4	2	0.7	1.53	0.83	0	0	0	0	0	0	0	0
8/28/2024 12:44	11102	EGYP_T1	6	15	9	1.25	0.88	-0.37	0	0	0	0	0	0	0	0
8/28/2024 12:45	67602	WARW_T2	0	0	0	0	0	0	0.05	0.1	2	2	0	1500	1500	0
8/28/2024 12:45	12701	MACU_T1	0	7	7	0	0.23	0.23	-0.57	-0.59	1	1	0	1200	1200	0
8/28/2024 12:46	67602	WARW_T2	0	0	0	0	0	0	0.05	0.1	2	2	0	1500	1500	0
8/28/2024 12:46	63602	LETO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 12:48	52004	LING_T2	2	2	0	4.35	4.05	-0.3	0.59	0.63	0	0	0	0	0	0
8/28/2024 12:48	52006	LING_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 12:49	65901	SAKR_T2	4	19	15	1.3	0.73	-0.57	0.71	0.65	1	1	0	600	600	0
8/28/2024 12:49	47101	MARL_T1	13	46	33	0.52	0.57	0.05	-0.58	-0.63	1	1	0	600	600	0
8/28/2024 12:53	40602	PIGR_T1	6	1	-5	0.42	1.6	1.18	0	0	0	0	0	0	0	0
8/28/2024 12:53	40601	PIGR_T1	8	18	10	0.69	0.4	-0.29	0	0	0	0	0	0	0	0
8/28/2024 12:56	61303	EARL_T1	2	2	0	0.95	1.1	0.15	0.55	-0.28	0	0	0	0	0	0
8/28/2024 12:56	55001	NEWP_T1	0	1	1	0	0	0	-0.13	-0.1	1	1	0	600	600	0
8/28/2024 12:56	55002	NEWP_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
8/28/2024 12:56	61305	EARL_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/28/2024 12:57	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 12:57	61306	EARL_T1	0	0	0	0	0	0	-1.1	-1.09	0	0	0	0	0	0
8/28/2024 12:57	61305	EARL_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/28/2024 12:57	55002	NEWP_T1	0	1	1	0	1.3	1.3	0.11	0.11	0	0	0	0	0	0
8/28/2024 12:57	61303	EARL_T1	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
8/28/2024 12:58	67602	WARW_T2	0	0	0	0	0	0	0.1	-0.03	2	2	0	1500	1500	0
8/28/2024 12:59	61305	EARL_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/28/2024 12:59	20402	ASHF_T2	6	17	11	1.08	1.46	0.38	0	0	0	0	0	0	0	0
8/28/2024 12:59	61303	EARL_T1	2	2	0	0.95	1.1	0.15	1.1	-0.55	0	0	0	0	0	0
8/28/2024 12:59	20401	ASHF_T2	7	8	1	1.51	1.73	0.22	0.65	0.73	0	0	0	0	0	0
8/28/2024 12:59	20403	ASHF_T2	7	12	5	0.24	0.58	0.34	1.16	1.28	0	0	0	0	0	0
8/28/2024 12:59	61701	ELIZ_T1	1	2	1	1.3	0.45	-0.85	2.38	2.36	0	0	0	0	0	0
8/28/2024 13:01	63804	HEMP_T1	1	1	0	8	8.3	0.3	-0.84	-0.82	0	0	0	0	0	0
8/28/2024 13:01	11903	ETEX_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 13:02	61701	ELIZ_T1	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
8/28/2024 13:02	63602	LETO_T1	1	0	-1	0.9	0	-0.9	0.08	0.21	1	1	0	600	600	0
8/28/2024 13:02	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 13:05	47101	MARL_T1	19	73	54	0.57	0.54	-0.03	-1.26	-1.11	2	2	0	1200	1200	0
8/28/2024 13:06	47101	MARL_T1	19	73	54	0.57	0.54	-0.03	-0.56	-0.62	1	1	0	600	600	0
8/28/2024 13:07	47101	MARL_T1	19	73	54	0.57	0.54	-0.03	-0.56	-0.62	1	1	0	600	600	0
8/28/2024 13:07	64204	KINZ_T1	2	85	83	0.9	0.47	-0.43	0	0	0	0	0	0	0	0
8/28/2024 13:07	47104	MARL_T1	0	0	0	0	0	0	-0.12	-0.02	0	0	0	0	0	0
8/28/2024 13:07	64201	KINZ_T1	31	421	390	0.41	0.43	0.02	0	0	0	0	0	0	0	0
8/28/2024 13:07	64203	KINZ_T1	24	186	162	0.64	0.6	-0.04	0.52	0.54	3	3	0	2100	2100	0
8/28/2024 13:07	64202	KINZ_T1	7	56	49	0.14	0.34	0.2	0	0	0	0	0	0	0	0
8/28/2024 13:08	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 13:09	43101	SMIL_T2	1	7	6	0.7	1.1	0.4	0	0	0	0	0	0	0	0
8/28/2024 13:09	43103	SMIL_T2	0	0	0	0	0	0	-2.55	-2.46	0	0	0	0	0	0
8/28/2024 13:10	15403	WALL_T1	0	0	0	0	0	0	0.03	-0.01	1	1	0	1200	1200	0
8/28/2024 13:11	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 13:12	24102	EHAZ_T1	2	6	4	0.3	0.2	-0.1	0.82	0.81	0	0	0	0	0	0
8/28/2024 13:12	24105	EHAZ_T1	4	4	0	6.5	6.43	-0.07	0	0	0	0	0	0	0	0
8/28/2024 13:12	24101	EHAZ_T1	51	74	23	1.52	1.15	-0.37	0	0	0	0	0	0	0	0
8/28/2024 13:12	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 13:12	67902	WNHO_T2	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/28/2024 13:12	67901	WNHO_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
8/28/2024 13:12	40201	BEGA_T2	1	4	3	0.3	1	0.7	0	0	0	0	0	0	0	0
8/28/2024 13:13	10801	CHHI_T1	17	18	1	0.45	0.62	0.17	-0.91	-0.87	3	3	0	2100	2100	0
8/28/2024 13:15	20401	ASHF_T2	7	13	6	1.67	1.47	-0.2	0	0	0	0	0	0	0	0
8/28/2024 13:15	20403	ASHF_T2	12	25	13	0.81	0.78	-0.03	1.28	1.36	0	0	0	0	0	0
8/28/2024 13:15	10805	CHHI_T2	4	11	7	2.63	2.3	-0.33	-1.28	-1.17	2	2	0	1800	1800	0
8/28/2024 13:15	20402	ASHF_T2	15	23	8	0.85	0.96	0.11	0	0	0	0	0	0	0	0
8/28/2024 13:15	40201	BEGA_T2	4	2	-2	0.43	1	0.57	0	0	0	0	0	0	0	0
8/28/2024 13:16	14401	SSLA_T1	9	5	-4	0.69	1.2	0.51	0	0	0	0	0	0	0	0
8/28/2024 13:16	14404	SSLA_T1	28	43	15	0.91	1	0.09	0	0	0	0	0	0	0	0
8/28/2024 13:16	14403	SSLA_T1	1	3	2	0.1	0.3	0.2	0.63	0.76	0	0	0	0	0	0
8/28/2024 13:16	14402	SSLA_T1	7	2	-5	0.49	0.2	-0.29	0	0	0	0	0	0	0	0
8/28/2024 13:16	65901	SAKR_T2	16	41	25	0.64	0.57	-0.07	0.87	0.84	1	1	0	600	600	0
8/28/2024 13:18	47901	HRDG_T1	0	0	0	0	0	0	1.66	1.72	1	1	0	1200	1200	0
8/28/2024 13:19	64305	LINC_T1	1	1	0	1	1	0	-0.19	-0.03	0	0	0	0	0	0
8/28/2024 13:19	64301	LINC_T1	0	0	0	0	0	0	0.09	0.02	1	1	0	600	600	0
8/28/2024 13:19	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 13:20	67502	WEWI_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
8/28/2024 13:20	67503	WEWI_T2	1	2	1	3.1	2.9	-0.2	0.36	0.43	0	0	0	0	0	0
8/28/2024 13:23	65601	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 13:23	44203	POIN_T2	11	14	3	0.72	1.2	0.48	0	-0.05	3	3	0	3300	3300	0
8/28/2024 13:23	65604	QVIL_T2	2	2	0	1.1	0.4	-0.7	0.38	0.41	0	0	0	0	0	0
8/28/2024 13:23	65602	QVIL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
8/28/2024 13:24	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 13:25	16101	BING_T2	4	14	10	1	1.6	0.6	0	0	0	0	0	0	0	0
8/28/2024 13:25	16102	BING_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
8/28/2024 13:25	16103	BING_T2	0	0	0	0	0	0	-2.02	-1.97	2	2	0	1500	1500	0
8/28/2024 13:25	44203	POIN_T2	11	14	3	0.72	1.2	0.48	0	-0.05	3	3	0	3300	3300	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/28/2024 13:26	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 13:29	64101	REFR_T1	10	11	1	1.73	1.77	0.04	0.09	0.11	0	0	0	0	0	0
8/28/2024 13:33	67505	WEWI_T1	0	0	0	0	0	0	0.97	0.94	1	1	0	900	900	0
8/28/2024 13:34	64204	KINZ_T1	85	282	197	0.5	0.58	0.08	0	0	0	0	0	0	0	0
8/28/2024 13:34	64202	KINZ_T1	56	67	11	1.35	1.36	0.01	0	0	0	0	0	0	0	0
8/28/2024 13:34	64201	KINZ_T1	421	470	49	0.93	1.21	0.28	-0.7	-0.71	5	5	0	3300	3300	0
8/28/2024 13:34	64203	KINZ_T1	186	386	200	0.7	0.7	0	0	0	0	0	0	0	0	0
8/28/2024 13:36	10901	COOP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 13:36	67502	WEWI_T2	2	4	2	0.15	0.48	0.33	0	0	0	0	0	0	0	0
8/28/2024 13:36	67503	WEWI_T2	2	5	3	1.45	2.9	1.45	0.43	0.54	0	0	0	0	0	0
8/28/2024 13:36	10903	COOP_T2	0	0	0	0	0	0	-0.77	-0.71	1	1	0	600	600	0
8/28/2024 13:39	41903	REED_T1	4	4	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
8/28/2024 13:39	64203	KINZ_T1	186	386	200	0.7	0.7	0	0	0	0	0	0	0	0	0
8/28/2024 13:39	41902	REED_T1	2	4	2	0.45	0.53	0.08	-0.1	-0.02	1	1	0	900	900	0
8/28/2024 13:39	41901	REED_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/28/2024 13:39	45801	HEGI_T1	0	0	0	0	0	0	0.18	0.04	1	1	0	900	900	0
8/28/2024 13:39	44202	POIN_T2	0	0	0	0	0	0	-0.56	-0.69	2	2	0	1800	1800	0
8/28/2024 13:39	64201	KINZ_T1	421	470	49	0.93	1.21	0.28	-0.71	-0.75	5	5	0	3300	3300	0
8/28/2024 13:39	44203	POIN_T2	14	5	-9	1.22	0.4	-0.82	0	0	0	0	0	0	0	0
8/28/2024 13:39	64204	KINZ_T1	85	282	197	0.5	0.58	0.08	0	0	0	0	0	0	0	0
8/28/2024 13:39	64101	REFR_T1	10	11	1	1.77	2.01	0.24	0.22	0.18	0	0	0	0	0	0
8/28/2024 13:39	64202	KINZ_T1	56	67	11	1.35	1.36	0.01	0	0	0	0	0	0	0	0
8/28/2024 13:40	45801	HEGI_T1	0	0	0	0	0	0	0.18	0.04	1	1	0	900	900	0
8/28/2024 13:41	42701	AUGU_T1	26	40	14	0.5	0.44	-0.06	0	0	2	2	0	1800	1800	0
8/28/2024 13:44	50103	HARR_T3	1	1	0	1.5	0.4	-1.1	0	0	1	1	0	1200	1200	0
8/28/2024 13:44	50201	HARR_T3	1	1	0	9.8	9.6	-0.2	0	0	0	0	0	0	0	0
8/28/2024 13:44	50105	HARR_T3	6	6	0	8.32	8.35	0.03	0	0	0	0	0	0	0	0
8/28/2024 13:44	50107	HARR_T3	1	1	0	8	8.4	0.4	0	0	0	0	0	0	0	0
8/28/2024 13:44	22002	BOHE_T1	0	0	0	0	0	0	-0.55	-0.52	0	0	0	0	0	0
8/28/2024 13:48	57401	SPAN_T1	0	2	2	0	0	0	-0.2	-0.16	1	1	0	600	600	0
8/28/2024 13:49	67503	WEWI_T2	1	5	4	2.9	2.9	0	0.43	0.54	0	0	0	0	0	0
8/28/2024 13:49	26402	INOR_T1	178	184	6	1.12	0.43	-0.69	0	0	0	0	0	0	0	0
8/28/2024 13:49	26401	INOR_T1	189	204	15	1.51	1.59	0.08	1.54	1.55	0	0	0	0	0	0
8/28/2024 13:49	67502	WEWI_T2	4	8	4	0.53	0.53	0	0	0	0	0	0	0	0	0
8/28/2024 13:54	57401	SPAN_T1	0	2	2	0	0	0	-0.16	-0.04	1	1	0	600	600	0
8/28/2024 13:54	67901	WNHO_T2	2	3	1	2.65	0.25	-2.4	0	0	0	0	0	0	0	0
8/28/2024 13:54	55002	NEWP_T1	0	1	1	0	0.2	0.2	0.16	0.12	0	0	0	0	0	0
8/28/2024 13:54	67902	WNHO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/28/2024 13:54	49803	UNIV_T1	1	2	1	7.5	3.6	-3.9	-1.22	-1.17	0	0	0	0	0	0
8/28/2024 13:54	55001	NEWP_T1	1	25	24	0.4	0.4	0	0	0	0	0	0	0	0	0
8/28/2024 13:54	59101	WALK_T2	0	0	0	0	0	0	1	0.92	1	1	0	600	600	0
8/28/2024 13:55	64101	REFR_T1	11	14	3	2.24	1.6	-0.64	0.09	0.1	0	0	0	0	0	0
8/28/2024 13:55	66401	ROBE_T1	9	9	0	0.39	0.88	0.49	0	0	0	0	0	0	0	0
8/28/2024 13:55	66402	ROBE_T1	5	6	1	0.2	1.24	1.04	-0.78	-0.69	2	2	0	1500	1500	0
8/28/2024 13:57	52204	DEVO_T2	6	6	0	1.12	1.32	0.2	0	0	0	0	0	0	0	0
8/28/2024 13:57	52202	DEVO_T2	1	1	0	0.1	0.1	0	-1.73	-1.77	0	0	0	0	0	0
8/28/2024 14:00	53601	DALM_T2	1	1	0	0.6	0.6	0	-0.65	-0.72	2	2	0	1500	1500	0
8/28/2024 14:00	61504	EPET_T2	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
8/28/2024 14:00	61501	EPET_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
8/28/2024 14:05	46002	BERW_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/28/2024 14:05	65903	SAKR_T2	0	0	0	0	0	0	-0.04	-0.07	3	3	0	2100	2100	0
8/28/2024 14:05	47101	MARL_T1	95	141	46	0.69	0.82	0.13	0	0	0	0	0	0	0	0
8/28/2024 14:05	46001	BERW_T1	0	0	0	0	0	0	-1.51	-1.48	0	0	0	0	0	0
8/28/2024 14:05	65901	SAKR_T2	36	48	12	0.55	0.55	0	0	0	0	0	0	0	0	0
8/28/2024 14:05	65902	SAKR_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
8/28/2024 14:05	46004	BERW_T2	2	3	1	2.6	1.97	-0.63	1.05	1.14	0	0	0	0	0	0
8/28/2024 14:05	47104	MARL_T1	0	1	1	0	0	0	-0.07	-0.03	0	0	0	0	0	0
8/28/2024 14:08	45402	WBLO_T2	0	2	2	0	0.5	0.5	-0.61	-0.58	1	1	0	900	900	0
8/28/2024 14:08	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 14:09	43101	SMIL_T2	2	7	5	1.35	0.57	-0.78	0	0	0	0	0	0	0	0
8/28/2024 14:09	43102	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 14:09	43104	SMIL_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 14:09	65602	QVIL_T2	1	3	2	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
8/28/2024 14:09	65603	QVIL_T2	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
8/28/2024 14:09	65604	QVIL_T2	2	4	2	0.35	0.37	0.02	0	0	0	0	0	0	0	0
8/28/2024 14:09	43108	SMIL_T2	1	2	1	0.2	0.1	-0.1	-0.66	-0.61	1	1	0	1200	1200	0
8/28/2024 14:09	65601	QVIL_T2	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/28/2024 14:10	55002	NEWP_T1	1	0	-1	0.2	0	-0.2	0.12	0.13	0	0	0	0	0	0
8/28/2024 14:10	41902	REED_T1	4	21	17	0.55	0.31	-0.24	0.02	0.02	1	1	0	900	900	0
8/28/2024 14:10	55001	NEWP_T1	25	2	-23	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
8/28/2024 14:10	41903	REED_T1	4	6	2	1.33	0.98	-0.35	0	0	0	0	0	0	0	0
8/28/2024 14:10	41901	REED_T1	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/28/2024 14:11	13503	MCMI_T2	4	5	1	0.7	0.5	-0.2	-0.52	-0.53	0	0	0	0	0	0
8/28/2024 14:11	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 14:12	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 14:12	46204	DANV_T2	74	51	-23	0.46	0.59	0.13	0	0	0	0	0	0	0	0
8/28/2024 14:12	43102	SMIL_T2	0	1	1	0	0	0	0.11	0.32	1	1	0	600	600	0
8/28/2024 14:12	46203	DANV_T2	1	7	6	6	1.1	-4.9	-1.94	-1.95	0	0	0	0	0	0
8/28/2024 14:12	43104	SMIL_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 14:12	43108	SMIL_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/28/2024 14:12	43101	SMIL_T2	2	7	5	1.35	0.57	-0.78	0	0	0	0	0	0	0	0
8/28/2024 14:12	46206	DANV_T2	95	97	2	1.03	0.98	-0.05	0	0	0	0	0	0	0	0
8/28/2024 14:13	46203	DANV_T2	1	7	6	6	1.1	-4.9	-1.94	-1.95	0	0	0	0	0	0
8/28/2024 14:13	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 14:13	46206	DANV_T2	95	97	2	1.03	0.98	-0.05	0	0	0	0	0	0	0	0
8/28/2024 14:13	46204	DANV_T2	74	51	-23	0.46	0.59	0.13	0	0	0	0	0	0	0	0
8/28/2024 14:14	46204	DANV_T2	74	51	-23	0.46	0.59	0.13	0	0	0	0	0	0	0	0
8/28/2024 14:14	46206	DANV_T2	95	97	2	1.03	0.98	-0.05	0	0	0	0	0	0	0	0
8/28/2024 14:14	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 14:14	46203	DANV_T2	1	7	6	6	1.1	-4.9	-1.94	-1.95	0	0	0	0	0	0
8/28/2024 14:15	63404	HONY_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 14:15	63401	HONY_T1	0	0	0	0	0	0	-0.25	-0.32	2	2	0	1200	1200	0
8/28/2024 14:16	46206	DANV_T2	87	103	16	1.01	1.05	0.04	0	0	0	0	0	0	0	0
8/28/2024 14:16	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 14:16	20601	GRWO_T2	436	651	215	1.39	1.41	0.02	0.63	0.6	1	1	0	1200	1200	0
8/28/2024 14:16	46204	DANV_T2	33	126	93	0.59	0.52	-0.07	0	0	0	0	0	0	0	0
8/28/2024 14:16	46203	DANV_T2	7	3	-4	1.1	2.27	1.17	-3.88	-3.9	0	0	0	0	0	0
8/28/2024 14:17	46203	DANV_T2	7	3	-4	1.1	2.27	1.17	-1.94	-1.95	0	0	0	0	0	0
8/28/2024 14:17	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 14:17	46206	DANV_T2	87	103	16	1.01	1.05	0.04	0	0	0	0	0	0	0	0
8/28/2024 14:17	46204	DANV_T2	33	126	93	0.59	0.52	-0.07	0	0	0	0	0	0	0	0
8/28/2024 14:21	58402	MORO_T1	0	4	4	0	0.57	0.57	0	0	0	0	0	0	0	0
8/28/2024 14:21	58401	MORO_T1	11	34	23	0.62	0.71	0.09	-1.67	-1.65	2	2	0	1500	1500	0
8/28/2024 14:22	53803	MBRG_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
8/28/2024 14:23	58401	MORO_T1	11	34	23	0.62	0.71	0.09	-1.65	-1.64	2	2	0	1500	1500	0
8/28/2024 14:23	58402	MORO_T1	0	4	4	0	0.57	0.57	0	0	0	0	0	0	0	0
8/28/2024 14:24	59202	THOM_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 14:26	41901	REED_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/28/2024 14:26	59202	THOM_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 14:26	41903	REED_T1	4	7	3	0.98	1.18	0.2	0	0	0	0	0	0	0	0
8/28/2024 14:26	41902	REED_T1	12	62	50	0.34	0.54	0.2	0.02	0.07	1	1	0	900	900	0
8/28/2024 14:27	53501	EVIL_T2	74	200	126	0.63	0.5	-0.13	-0.01	-0.01	3	3	0	1400	1400	0
8/28/2024 14:27	53502	EVIL_T2	3	15	12	0.47	0.33	-0.14	0	0	0	0	0	0	0	0
8/28/2024 14:28	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 14:28	46206	DANV_T2	87	103	16	1.01	1.05	0.04	0	0	0	0	0	0	0	0
8/28/2024 14:28	46203	DANV_T2	7	3	-4	1.1	2.27	1.17	-1.95	-1.98	0	0	0	0	0	0
8/28/2024 14:28	46204	DANV_T2	33	126	93	0.59	0.52	-0.07	0	0	0	0	0	0	0	0
8/28/2024 14:29	46206	DANV_T2	87	103	16	1.01	1.05	0.04	0	0	0	0	0	0	0	0
8/28/2024 14:29	46203	DANV_T2	7	3	-4	1.1	2.27	1.17	-1.95	-1.98	0	0	0	0	0	0
8/28/2024 14:29	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 14:29	46204	DANV_T2	33	126	93	0.59	0.52	-0.07	0	0	0	0	0	0	0	0
8/28/2024 14:32	63303	GREE_T1	0	0	0	0	0	0	0.39	0.1	2	2	0	1800	1800	0
8/28/2024 14:34	59301	MCAL_T1	35	21	-14	0.63	0.68	0.05	-1.27	-1.26	1	1	0	600	600	0
8/28/2024 14:34	59302	MCAL_T1	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
8/28/2024 14:37	53601	DALM_T2	1	1	0	0.6	0.5	-0.1	-0.71	-0.72	2	2	0	1500	1500	0
8/28/2024 14:37	59301	MCAL_T1	35	21	-14	0.63	0.68	0.05	-1.26	-1.27	1	1	0	600	600	0
8/28/2024 14:37	59302	MCAL_T1	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
8/28/2024 14:38	42903	MIDD_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 14:38	42901	MIDD_T2	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/28/2024 14:38	52404	GRPA_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 14:38	42902	MIDD_T2	1	2	1	2.7	1.1	-1.6	0.1	0.07	2	2	0	900	900	0
8/28/2024 14:38	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
8/28/2024 14:38	52401	GRPA_T2	2	19	17	0.6	0.36	-0.24	-0.1	-0.11	0	0	0	0	0	0
8/28/2024 14:38	52403	GRPA_T2	2	8	6	0.3	0.37	0.07	0	0	0	0	0	0	0	0
8/28/2024 14:38	40602	PIGR_T1	5	5	0	0.62	1.2	0.58	-1.09	-1	2	2	0	1200	1200	0
8/28/2024 14:38	52402	GRPA_T2	9	12	3	0.49	0.27	-0.22	0	0	0	0	0	0	0	0
8/28/2024 14:38	40603	PIGR_T1	9	18	9	0.34	0.35	0.01	0	0	0	0	0	0	0	0
8/28/2024 14:38	40601	PIGR_T1	21	34	13	0.59	0.64	0.05	0	0	0	0	0	0	0	0
8/28/2024 14:39	40601	PIGR_T1	21	34	13	0.59	0.64	0.05	0	0	0	0	0	0	0	0
8/28/2024 14:39	40602	PIGR_T1	5	5	0	0.62	1.2	0.58	-0.55	-0.5	1	1	0	600	600	0
8/28/2024 14:39	40603	PIGR_T1	9	18	9	0.34	0.35	0.01	0	0	0	0	0	0	0	0
8/28/2024 14:40	59301	MCAL_T1	35	21	-14	0.63	0.68	0.05	0	0	0	0	0	0	0	0
8/28/2024 14:40	59302	MCAL_T1	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
8/28/2024 14:40	42802	SELI_T1	0	0	0	0	0	0	-0.42	-0.39	2	2	0	1800	1800	0
8/28/2024 14:42	13503	MCMI_T2	4	5	1	0.4	0.46	0.06	-0.52	-0.51	0	0	0	0	0	0
8/28/2024 14:43	60701	BREC_T1	17	120	103	1.26	0.61	-0.65	0.46	0.63	2	2	0	1200	1200	0
8/28/2024 14:44	17401	HEID_T1	0	1	1	0	0.1	0.1	-1.3	-1.22	0	0	0	0	0	0
8/28/2024 14:48	63501	HEID_TBK1-2	55	55	0	2.65	2.67	0.02	1.89	1.94	3	3	0	2700	2700	0
8/28/2024 14:49	54506	ENOL_T2	0	0	0	0	0	0	0.33	0.27	1	1	0	600	600	0
8/28/2024 14:49	54503	ENOL_T2	3	4	1	0.7	0.15	-0.55	0	0	0	0	0	0	0	0
8/28/2024 14:49	42902	MIDD_T2	2	1	-1	1.1	2.3	1.2	0	0	0	0	0	0	0	0
8/28/2024 14:49	42901	MIDD_T2	2	4	2	0.3	0.43	0.13	0	0	0	0	0	0	0	0
8/28/2024 14:49	42903	MIDD_T2	0	2	2	0	0.1	0.1	1.33	1.59	1	1	0	1200	1200	0
8/28/2024 14:55	41901	REED_T1	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/28/2024 14:55	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 14:55	61402	SLIT_T1	77	72	-5	0.54	0.41	-0.13	0	0	0	0	0	0	0	0
8/28/2024 14:55	41902	REED_T1	61	73	12	0.62	0.51	-0.11	0.02	0.04	1	1	0	900	900	0
8/28/2024 14:55	41903	REED_T1	5	5	0	1.08	0.63	-0.45	0	0	0	0	0	0	0	0
8/28/2024 14:58	60701	BREC_T1	105	121	16	0.62	0.59	-0.03	0.63	0.58	2	2	0	1200	1200	0
8/28/2024 14:59	46203	DANV_T2	3	8	5	2.3	2.73	0.43	-1.94	-1.9	0	0	0	0	0	0
8/28/2024 14:59	60701	BREC_T1	105	121	16	0.62	0.59	-0.03	0.63	0.58	2	2	0	1200	1200	0
8/28/2024 14:59	46206	DANV_T2	102	102	0	1.19	1	-0.19	0	0	0	0	0	0	0	0
8/28/2024 14:59	46204	DANV_T2	126	98	-28	0.66	0.5	-0.16	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/28/2024 15:04	45502	DERR_T2	31	84	53	0.57	0.61	0.04	0	0	0	0	0	0	0	0
8/28/2024 15:04	45501	DERR_T2	18	61	43	0.67	0.55	-0.12	1.26	1.34	2	2	0	1800	1800	0
8/28/2024 15:07	65001	NEFF_T2	0	0	0	0	0	0	0.41	0.42	1	1	0	1200	1200	0
8/28/2024 15:10	64204	KINZ_T1	673	820	147	1.03	1.2	0.17	0	0	0	0	0	0	0	0
8/28/2024 15:10	64202	KINZ_T1	106	116	10	2.03	2.13	0.1	0	0	0	0	0	0	0	0
8/28/2024 15:10	64203	KINZ_T1	1176	1255	79	1.02	0.99	-0.03	0.58	0.58	3	3	0	2100	2100	0
8/28/2024 15:10	64201	KINZ_T1	828	1023	195	1.66	1.69	0.03	0	0	0	0	0	0	0	0
8/28/2024 15:12	40201	BEGA_T2	3	5	2	0.83	0.73	-0.1	0	0	0	0	0	0	0	0
8/28/2024 15:15	40901	JESH_T1	3	3	0	1.27	1.17	-0.1	0	0	0	0	0	0	0	0
8/28/2024 15:15	46203	DANV_T2	8	6	-2	1.36	2.23	0.87	0	0	0	0	0	0	0	0
8/28/2024 15:15	47401	PENS_T1	3	4	1	0.47	0.63	0.16	1.27	1.18	0	0	0	0	0	0
8/28/2024 15:15	27201	YATE_T1	2	2	0	0.2	0	-0.2	-21.6	-21.6	0	0	0	0	0	0
8/28/2024 15:15	46204	DANV_T2	96	134	38	0.59	0.63	0.04	0	0	0	0	0	0	0	0
8/28/2024 15:15	40902	JESH_T1	0	5	5	0	0.15	0.15	-0.58	-0.56	4	4	0	2400	2400	0
8/28/2024 15:15	46205	DANV_T2	0	3	3	0	0.2	0.2	-1.15	-1.12	2	2	0	2400	2400	0
8/28/2024 15:15	46206	DANV_T2	100	130	30	1	1.16	0.16	0	0	0	0	0	0	0	0
8/28/2024 15:15	47403	PENS_T1	2	2	0	0.95	0.75	-0.2	0	0	0	0	0	0	0	0
8/28/2024 15:18	12601	MACA_T1	7	7	0	1.09	0.56	-0.53	1.77	1.75	0	0	0	0	0	0
8/28/2024 15:18	12602	MACA_T1	20	23	3	1.14	1.05	-0.09	0	0	0	0	0	0	0	0
8/28/2024 15:18	12606	MACA_T1	106	107	1	2.01	2.08	0.07	0	0	0	0	0	0	0	0
8/28/2024 15:19	40902	JESH_T1	0	5	5	0	0.15	0.15	-0.29	-0.28	2	2	0	1200	1200	0
8/28/2024 15:19	40901	JESH_T1	3	3	0	1.27	1.17	-0.1	0	0	0	0	0	0	0	0
8/28/2024 15:20	25402	LAHA_T2	0	0	0	0	0	0	-0.03	0.02	0	0	0	0	0	0
8/28/2024 15:20	48302	ORWI_T2	4	4	0	0.48	0.25	-0.23	-0.37	-0.42	0	0	0	0	0	0
8/28/2024 15:21	63602	LETO_T1	0	1	1	0	0	0	0.18	0.09	1	1	0	600	600	0
8/28/2024 15:23	47403	PENS_T1	2	2	0	0.95	0.75	-0.2	0	0	0	0	0	0	0	0
8/28/2024 15:23	47401	PENS_T1	3	4	1	0.47	0.63	0.16	1.18	1.19	0	0	0	0	0	0
8/28/2024 15:26	22003	BOHE_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/28/2024 15:26	22001	BOHE_T1	0	0	0	0	0	0	-1.23	-1.25	1	1	0	600	600	0
8/28/2024 15:26	42802	SEU_T1	0	3	3	0	0.4	0.4	-0.24	-0.2	1	1	0	900	900	0
8/28/2024 15:26	22002	BOHE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 15:34	20601	GRWO_T2	378	338	-40	1.45	1.21	-0.24	0.41	0.36	1	1	0	1200	1200	0
8/28/2024 15:35	63203	MGTN_T1	0	0	0	0	0	0	-1.15	-1.21	2	2	0	1200	1200	0
8/28/2024 15:39	47104	MARL_T1	15	12	-3	0.41	0.24	-0.17	0	0	0	0	0	0	0	0
8/28/2024 15:39	47101	MARL_T1	274	324	50	1.04	1.19	0.15	-0.38	-0.36	1	1	0	600	600	0
8/28/2024 15:41	41903	REED_T1	4	4	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/28/2024 15:41	59202	THOM_T1	3	1	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/28/2024 15:41	41902	REED_T1	44	152	108	0.51	0.52	0.01	0.09	0.07	1	1	0	900	900	0
8/28/2024 15:41	41901	REED_T1	1	10	9	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/28/2024 15:46	53601	DALM_T2	1	1	0	0.2	0.4	0.2	-1.16	-1.15	2	2	0	1500	1500	0
8/28/2024 15:46	10805	CHHI_T2	62	93	31	0.69	0.95	0.26	-1.2	-1	2	2	0	1800	1800	0
8/28/2024 15:47	47401	PENS_T1	3	10	7	1.07	0.95	-0.12	3.56	3.52	0	0	0	0	0	0
8/28/2024 15:47	10805	CHHI_T2	62	93	31	0.69	0.95	0.26	-1.2	-1	2	2	0	1800	1800	0
8/28/2024 15:47	47403	PENS_T1	1	2	1	0.4	0.75	0.35	0	0	0	0	0	0	0	0
8/28/2024 15:49	42901	MIDD_T2	3	13	10	0.73	1.02	0.29	0	0	0	0	0	0	0	0
8/28/2024 15:49	42902	MIDD_T2	25	30	5	0.83	1.64	0.81	-0.2	-0.25	1	1	0	600	600	0
8/28/2024 15:49	42903	MIDD_T2	2	3	1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/28/2024 15:50	42903	MIDD_T2	2	3	1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/28/2024 15:50	42902	MIDD_T2	25	30	5	0.83	1.64	0.81	-0.2	-0.25	1	1	0	600	600	0
8/28/2024 15:50	42901	MIDD_T2	3	13	10	0.73	1.02	0.29	0	0	0	0	0	0	0	0
8/28/2024 15:51	42901	MIDD_T2	3	13	10	0.73	1.02	0.29	0	0	0	0	0	0	0	0
8/28/2024 15:51	42902	MIDD_T2	25	30	5	0.83	1.64	0.81	-0.25	-0.41	1	1	0	600	600	0
8/28/2024 15:51	42903	MIDD_T2	2	3	1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/28/2024 15:52	42901	MIDD_T2	3	13	10	0.73	1.02	0.29	0	0	0	0	0	0	0	0
8/28/2024 15:52	42903	MIDD_T2	2	3	1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/28/2024 15:52	42902	MIDD_T2	25	30	5	0.83	1.64	0.81	-0.25	-0.41	1	1	0	600	600	0
8/28/2024 15:52	51702	OBER_T1	2	2	0	1.5	1.5	0	-0.96	-0.98	1	1	0	600	600	0
8/28/2024 15:53	42903	MIDD_T2	2	3	1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/28/2024 15:53	42901	MIDD_T2	3	13	10	0.73	1.02	0.29	0	0	0	0	0	0	0	0
8/28/2024 15:53	42902	MIDD_T2	25	30	5	0.83	1.64	0.81	-0.25	-0.41	1	1	0	600	600	0
8/28/2024 15:55	15001	BLMO_T1	5	12	7	0.36	0.62	0.26	0	0	0	0	0	0	0	0
8/28/2024 15:56	64204	KINZ_T1	714	598	-116	1.11	0.59	-0.52	0	0	0	0	0	0	0	0
8/28/2024 15:56	64203	KINZ_T1	1233	779	-454	1.11	0.68	-0.43	0.48	0.39	3	3	0	2100	2100	0
8/28/2024 15:56	64202	KINZ_T1	109	101	-8	2.21	1.53	-0.68	0	0	0	0	0	0	0	0
8/28/2024 15:56	64201	KINZ_T1	1009	683	-326	1.57	1.38	-0.19	0	0	0	0	0	0	0	0
8/28/2024 15:56	15202	SFAR_T1	10	15	5	1.26	1.39	0.13	0.11	0.11	1	1	0	1200	1200	0
8/28/2024 15:57	64201	KINZ_T1	1009	683	-326	1.57	1.38	-0.19	0	0	0	0	0	0	0	0
8/28/2024 15:57	64202	KINZ_T1	109	101	-8	2.21	1.53	-0.68	0	0	0	0	0	0	0	0
8/28/2024 15:57	64203	KINZ_T1	1233	779	-454	1.11	0.68	-0.43	0.48	0.39	3	3	0	2100	2100	0
8/28/2024 15:57	64204	KINZ_T1	714	598	-116	1.11	0.59	-0.52	0	0	0	0	0	0	0	0
8/28/2024 16:08	13002	NBET_T2	2	0	-2	0.35	0	-0.35	-0.6	-0.55	2	2	0	2400	2400	0
8/28/2024 16:08	40302	TAMA_T3	1	1	0	0.1	0.2	0.1	-0.88	-0.8	1	1	0	1200	1200	0
8/28/2024 16:08	40301	TAMA_T3	2	2	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
8/28/2024 16:08	40303	TAMA_T3	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
8/28/2024 16:08	59302	MCAL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 16:08	13001	NBET_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 16:08	59301	MCAL_T1	38	47	9	0.69	0.64	-0.05	-1.3	-1.45	1	1	0	600	600	0
8/28/2024 16:08	13005	NBET_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/28/2024 16:08	49804	UNIV_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
8/28/2024 16:08	49803	UNIV_T1	2	5	3	3.65	2.7	-0.95	0	0	0	0	0	0	0	0
8/28/2024 16:11	15001	BLMO_T1	6	89	83	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
8/28/2024 16:14	10601	BLGL_T1	3	1	-2	0.73	0.8	0.07	0	0	0	0	0	0	0	0
8/28/2024 16:14	10603	BLGL_T1	52	150	98	1.06	1.02	-0.04	0.21	0.13	0	0	0	0	0	0
8/28/2024 16:14	59301	MCAL_T1	38	47	9	0.69	0.64	-0.05	0	0	0	0	0	0	0	0
8/28/2024 16:14	59302	MCAL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 16:16	51004	NHAR_T1	2	1	-1	3.65	7.4	3.75	0	0	0	0	0	0	0	0
8/28/2024 16:16	51006	NHAR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/28/2024 16:16	51003	NHAR_T1	0	0	0	0	0	0	-2.24	-2.19	1	1	0	1200	1200	0
8/28/2024 16:17	22903	HARW_T1	16	10	-6	0.99	0.56	-0.43	0	0	0	0	0	0	0	0
8/28/2024 16:17	22901	HARW_T1	23	16	-7	0.44	0.61	0.17	-0.03	0.11	1	1	0	1200	1200	0
8/28/2024 16:17	22905	HARW_T1	26	20	-6	0.75	0.27	-0.48	0	0	0	0	0	0	0	0
8/28/2024 16:18	27605	PIRI_T2	783	696	-87	0.9	0.86	-0.04	1.97	1.89	0	0	0	0	0	0
8/28/2024 16:19	45502	DERR_T2	77	80	3	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
8/28/2024 16:19	43202	MVIL_T2	11	14	3	0.72	0.38	-0.34	0	0	0	0	0	0	0	0
8/28/2024 16:19	45501	DERR_T2	76	79	3	0.56	0.54	-0.02	1.43	1.23	2	2	0	1800	1800	0
8/28/2024 16:19	46802	HEPB_T1	0	1	1	0	0	0	0.47	0.41	0	0	0	0	0	0
8/28/2024 16:19	43201	MVIL_T2	72	74	2	1.12	1.1	-0.02	-0.93	-0.92	0	0	0	0	0	0
8/28/2024 16:24	58402	MORO_T1	3	5	2	0.8	1.2	0.4	0	0	0	0	0	0	0	0
8/28/2024 16:24	58401	MORO_T1	155	232	77	0.68	0.63	-0.05	-3.14	-3.16	4	4	0	3000	3000	0
8/28/2024 16:29	10603	BLGL_T1	141	164	23	0.96	1.08	0.12	0.13	0.11	0	0	0	0	0	0
8/28/2024 16:29	10601	BLGL_T1	1	2	1	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
8/28/2024 16:30	11404	FARM_T1	3	3	0	1.83	0.83	-1	0	0	0	0	0	0	0	0
8/28/2024 16:30	11402	FARM_T1	35	44	9	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
8/28/2024 16:30	11406	FARM_T1	21	40	19	0.86	0.9	0.04	0	0	0	0	0	0	0	0
8/28/2024 16:30	11405	FARM_T1	72	97	25	0.58	0.57	-0.01	-0.3	-0.29	1	1	0	1200	1200	0
8/28/2024 16:30	11407	FARM_T1	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
8/28/2024 16:32	11407	FARM_T1	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
8/28/2024 16:32	11406	FARM_T1	21	40	19	0.86	0.9	0.04	0	0	0	0	0	0	0	0
8/28/2024 16:32	11404	FARM_T1	3	3	0	1.83	0.83	-1	0	0	0	0	0	0	0	0
8/28/2024 16:32	11405	FARM_T1	72	97	25	0.58	0.57	-0.01	0	0	0	0	0	0	0	0
8/28/2024 16:32	11402	FARM_T1	35	44	9	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
8/28/2024 16:34	42903	MIDD_T2	0	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0
8/28/2024 16:34	22903	HARW_T1	10	7	-3	0.71	0.4	-0.31	0	0	0	0	0	0	0	0
8/28/2024 16:34	42902	MIDD_T2	28	29	1	1.6	0.86	-0.74	-0.46	-0.53	1	1	0	600	600	0
8/28/2024 16:34	22905	HARW_T1	19	13	-6	0.72	0.27	-0.45	0	0	0	0	0	0	0	0
8/28/2024 16:34	22901	HARW_T1	12	24	12	0.68	0.61	-0.07	0	0	0	0	0	0	0	0
8/28/2024 16:34	42901	MIDD_T2	11	29	18	0.75	1.3	0.55	0	0	0	0	0	0	0	0
8/28/2024 16:36	42901	MIDD_T2	11	29	18	0.75	1.3	0.55	0	0	0	0	0	0	0	0
8/28/2024 16:36	42903	MIDD_T2	0	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0
8/28/2024 16:36	43201	MVIL_T2	73	80	7	1.14	0.98	-0.16	-0.89	-0.93	0	0	0	0	0	0
8/28/2024 16:36	43202	MVIL_T2	14	13	-1	0.65	0.41	-0.24	0	0	0	0	0	0	0	0
8/28/2024 16:36	42902	MIDD_T2	28	29	1	1.6	0.86	-0.74	-0.53	-0.49	1	1	0	600	600	0
8/28/2024 16:39	67103	SPRI_T1	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
8/28/2024 16:41	58401	MORO_T1	160	290	130	0.64	0.89	0.25	0	0	0	0	0	0	0	0
8/28/2024 16:41	58402	MORO_T1	5	10	5	1.26	0.93	-0.33	-1.52	-1.47	5	5	0	3150	3150	0
8/28/2024 16:42	42902	MIDD_T2	28	29	1	1.6	0.86	-0.74	-0.53	-0.49	1	1	0	600	600	0
8/28/2024 16:42	42903	MIDD_T2	0	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0
8/28/2024 16:42	42901	MIDD_T2	11	29	18	0.75	1.3	0.55	0	0	0	0	0	0	0	0
8/28/2024 16:43	42701	AUGU_T1	76	85	9	1.75	1.99	0.24	0	0	2	2	0	1800	1800	0
8/28/2024 16:44	51304	WIND_T2	0	0	0	0	0	0	0.37	0.3	0	0	0	0	0	0
8/28/2024 16:44	41303	FISH_T1	1	1	0	2.9	2.2	-0.7	0	0	0	0	0	0	0	0
8/28/2024 16:44	11504	FREE_T1	4	15	11	0.35	0.38	0.03	-1.23	-1.29	2	2	0	2100	2100	0
8/28/2024 16:44	41301	FISH_T1	1	3	2	1.3	0.57	-0.73	0	0	0	0	0	0	0	0
8/28/2024 16:44	11505	FREE_T1	17	22	5	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
8/28/2024 16:44	11502	FREE_T1	3	3	0	1.93	1.27	-0.66	0	0	0	0	0	0	0	0
8/28/2024 16:45	11505	FREE_T1	21	17	-4	0.7	0.61	-0.09	0	0	0	0	0	0	0	0
8/28/2024 16:45	24702	FLND_T2	0	1	1	0	0	0	0	0	2	2	0	2400	2400	0
8/28/2024 16:45	11502	FREE_T1	3	3	0	1.87	0.5	-1.37	0	0	0	0	0	0	0	0
8/28/2024 16:45	24701	FLND_T2	9	0	-9	0.32	0	-0.32	0	0	0	0	0	0	0	0
8/28/2024 16:45	11504	FREE_T1	6	18	12	0.37	0.24	-0.13	-1.23	-1.29	2	2	0	2100	2100	0
8/28/2024 16:46	41303	FISH_T1	1	1	0	3.4	0.8	-2.6	0	0	0	0	0	0	0	0
8/28/2024 16:46	16006	DORN_T2	12	18	6	2.03	2.51	0.48	0	0	0	0	0	0	0	0
8/28/2024 16:46	41301	FISH_T1	1	3	2	1.3	0.63	-0.67	-0.16	-0.15	0	0	0	0	0	0
8/28/2024 16:46	16002	DORN_T2	18	34	16	0.38	0.44	0.06	0.54	0.52	1	1	0	1200	1200	0
8/28/2024 16:47	46901	MNTG_T2	0	0	0	0	0	0	0.73	0.35	1	1	0	1200	1200	0
8/28/2024 16:48	46504	LOHA_T1	4	5	1	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
8/28/2024 16:48	46501	LOHA_T1	50	60	10	0.71	0.7	-0.01	0.74	0.7	1	1	0	1200	1200	0
8/28/2024 16:48	46506	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 16:48	51202	MTON_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/28/2024 16:48	51204	MTON_T2	5	9	4	1.16	1.84	0.68	-0.97	-0.99	2	2	0	1500	1500	0
8/28/2024 16:49	61101	BERK_T5	9	12	3	1.27	1.81	0.54	0	0	0	0	0	0	0	0
8/28/2024 16:49	46101	MACI_T2	0	0	0	0	0	0	-0.44	-0.42	1	1	0	1200	1200	0
8/28/2024 16:49	61102	BERK_T5	0	0	0	0	0	0	-0.16	-0.1	2	2	0	1200	1200	0
8/28/2024 16:50	46506	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 16:50	46504	LOHA_T1	4	5	1	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
8/28/2024 16:50	46501	LOHA_T1	50	60	10	0.71	0.7	-0.01	0.74	0.7	1	1	0	1200	1200	0
8/28/2024 16:51	43202	MVIL_T2	12	9	-3	0.43	0.33	-0.1	-0.31	-0.36	0	0	0	0	0	0
8/28/2024 16:51	43201	MVIL_T2	73	80	7	1.28	0.93	-0.35	-0.93	-0.92	0	0	0	0	0	0
8/28/2024 16:54	15603	NSTR_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
8/28/2024 16:54	15601	NSTR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 16:54	15602	NSTR_T2	0	3	3	0	1	1	0	0	0	0	0	0	0	0
8/28/2024 16:56	16505	STRO_T1	12	12	0	3.78	3.58	-0.2	0	0	0	0	0	0	0	0
8/28/2024 16:56	16504	STRO_T1	3	7	4	0.4	0.48	0.08	1.01	0.98	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/28/2024 16:56	16501	STRO_T1	2	1	-1	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/28/2024 17:00	16005	DORN_T1	5	5	0	0.94	0.83	-0.11	0	0	0	0	0	0	0	0
8/28/2024 17:00	16001	DORN_T1	0	1	1	0	0	0	-0.29	-0.29	0	0	0	0	0	0
8/28/2024 17:00	16007	DORN_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/28/2024 17:00	16004	DORN_T1	1	3	2	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/28/2024 17:01	53902	HALI_T2	1	1	0	2.9	3	0.1	-0.76	-0.64	0	0	0	0	0	0
8/28/2024 17:01	53901	HALI_T2	3	0	-3	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/28/2024 17:02	53901	HALI_T2	3	0	-3	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/28/2024 17:02	53902	HALI_T2	1	1	0	2.9	3	0.1	-0.38	-0.32	0	0	0	0	0	0
8/28/2024 17:05	12001	HATF_T1	4	4	0	0.5	1	0.5	0	0	0	0	0	0	0	0
8/28/2024 17:05	12006	HATF_T1	0	0	0	0	0	0	-0.33	-0.38	3	3	0	3600	3600	0
8/28/2024 17:05	12002	HATF_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/28/2024 17:05	12003	HATF_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/28/2024 17:06	47101	MARL_T1	397	419	22	1.14	1.14	0	-0.31	-0.35	1	1	0	600	600	0
8/28/2024 17:06	47104	MARL_T1	31	27	-4	0.62	0.94	0.32	0	0	0	0	0	0	0	0
8/28/2024 17:07	43201	MVIL_T2	77	82	5	0.95	0.91	-0.04	-0.92	-0.89	0	0	0	0	0	0
8/28/2024 17:07	43202	MVIL_T2	8	6	-2	0.39	0.45	0.06	0	0	0	0	0	0	0	0
8/28/2024 17:11	56501	ROCK_T2	3	4	1	0.6	1.1	0.5	-1.27	-1.27	0	0	0	0	0	0
8/28/2024 17:11	56503	ROCK_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/28/2024 17:11	56504	ROCK_T2	14	11	-3	0.42	1.53	1.11	0	0	0	0	0	0	0	0
8/28/2024 17:12	14705	TREX_T1	24	46	22	0.84	0.94	0.1	0	0	0	0	0	0	0	0
8/28/2024 17:12	14706	TREX_T1	0	0	0	0	0	0	0.49	0.53	2	2	0	2100	2100	0
8/28/2024 17:15	20603	GRWO_T2	0	0	0	0	0	0	-0.11	-0.15	1	1	0	900	900	0
8/28/2024 17:15	20601	GRWO_T2	192	299	107	0.99	1.02	0.03	0	0	0	0	0	0	0	0
8/28/2024 17:20	51202	MTON_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/28/2024 17:20	51204	MTON_T2	8	6	-2	1.51	1.62	0.11	-1.01	-1.01	2	2	0	1500	1500	0
8/28/2024 17:23	63401	HONY_T1	0	0	0	0	0	0	-0.3	-0.28	1	1	0	600	600	0
8/28/2024 17:23	63404	HONY_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
8/28/2024 17:27	59202	THOM_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
8/28/2024 17:28	46203	DANV_T2	8	48	40	0.84	0.72	-0.12	0	0	0	0	0	0	0	0
8/28/2024 17:28	59202	THOM_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
8/28/2024 17:28	46204	DANV_T2	99	92	-7	0.5	0.46	-0.04	0	0	0	0	0	0	0	0
8/28/2024 17:28	46206	DANV_T2	121	145	24	1.03	1.05	0.02	2.39	2.38	2	2	0	2100	2100	0
8/28/2024 17:28	62607	ENGL_T1	4	13	9	1.13	1.15	0.02	0	0	0	0	0	0	0	0
8/28/2024 17:28	62606	ENGL_T1	14	15	1	1.42	1.77	0.35	0	0	0	0	0	0	0	0
8/28/2024 17:28	46205	DANV_T2	2	2	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/28/2024 17:28	62602	ENGL_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
8/28/2024 17:28	62604	ENGL_T1	18	23	5	0.51	0.41	-0.1	0.26	0.23	1	1	0	600	600	0
8/28/2024 17:28	41602	CLEV_T1	127	177	50	0.66	0.54	-0.12	0	0	1	1	0	600	600	0
8/28/2024 17:28	62601	ENGL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/28/2024 17:29	51603	DUKE_T1	0	0	0	0	0	0	-0.63	-0.64	1	1	0	900	900	0
8/28/2024 17:30	62607	ENGL_T1	5	12	7	1	0.88	-0.12	0	0	0	0	0	0	0	0
8/28/2024 17:30	62602	ENGL_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/28/2024 17:30	62601	ENGL_T1	2	2	0	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/28/2024 17:30	62604	ENGL_T1	15	20	5	0.4	0.34	-0.06	0.26	0.23	1	1	0	600	600	0
8/28/2024 17:30	62606	ENGL_T1	14	25	11	1.77	2.43	0.66	0	0	0	0	0	0	0	0
8/28/2024 17:31	62606	ENGL_T1	14	25	11	1.77	2.43	0.66	0	0	0	0	0	0	0	0
8/28/2024 17:31	62601	ENGL_T1	2	2	0	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/28/2024 17:31	62602	ENGL_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/28/2024 17:31	62604	ENGL_T1	15	20	5	0.4	0.34	-0.06	0.26	0.23	1	1	0	600	600	0
8/28/2024 17:31	62607	ENGL_T1	5	12	7	1	0.88	-0.12	0	0	0	0	0	0	0	0
8/28/2024 17:32	67603	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 17:32	67605	WARW_T1	1	3	2	1.4	0.83	-0.57	0	0	0	0	0	0	0	0
8/28/2024 17:32	46203	DANV_T2	22	49	27	0.74	0.63	-0.11	0	0	0	0	0	0	0	0
8/28/2024 17:32	52202	DEVO_T2	1	3	2	0.1	0.5	0.4	-1.6	-1.62	0	0	0	0	0	0
8/28/2024 17:32	46204	DANV_T2	91	78	-13	0.54	0.53	-0.01	0	0	0	0	0	0	0	0
8/28/2024 17:32	62604	ENGL_T1	15	20	5	0.4	0.34	-0.06	0.26	0.23	1	1	0	600	600	0
8/28/2024 17:32	52204	DEVO_T2	6	6	0	1.38	1.53	0.15	0	0	0	0	0	0	0	0
8/28/2024 17:32	51401	LYKE_T1	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
8/28/2024 17:32	46205	DANV_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
8/28/2024 17:32	62607	ENGL_T1	5	12	7	1	0.88	-0.12	0	0	0	0	0	0	0	0
8/28/2024 17:32	62602	ENGL_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/28/2024 17:32	62601	ENGL_T1	2	2	0	0.25	0	-0.25	0	0	0	0	0	0	0	0
8/28/2024 17:32	62606	ENGL_T1	14	25	11	1.77	2.43	0.66	0	0	0	0	0	0	0	0
8/28/2024 17:32	46206	DANV_T2	129	143	14	1.11	1.1	-0.01	2.39	2.38	2	2	0	2100	2100	0
8/28/2024 17:41	57401	SPAN_T1	11	43	32	0.45	0.31	-0.14	0	0	0	0	0	0	0	0
8/28/2024 17:41	57403	SPAN_T1	0	0	0	0	0	0	0.82	0.79	0	0	0	0	0	0
8/28/2024 17:42	11001	EGRE_T1	1	1	0	0.1	0	-0.1	0.47	0.43	1	1	0	1200	1200	0
8/28/2024 17:42	43101	SMIL_T2	24	41	17	1.2	1.05	-0.15	0	0	0	0	0	0	0	0
8/28/2024 17:42	43108	SMIL_T2	7	9	2	0.71	0.1	-0.61	0	0	0	0	0	0	0	0
8/28/2024 17:42	43103	SMIL_T2	2	3	1	0.25	0.55	0.3	0	0	0	0	0	0	0	0
8/28/2024 17:42	43104	SMIL_T2	17	9	-8	0.96	0.63	-0.33	-0.37	-0.65	4	4	0	1200	1200	0
8/28/2024 17:43	57401	SPAN_T1	11	43	32	0.45	0.31	-0.14	0	0	0	0	0	0	0	0
8/28/2024 17:43	57403	SPAN_T1	0	0	0	0	0	0	0.82	0.79	0	0	0	0	0	0
8/28/2024 17:47	51004	NHAR_T1	2	7	5	3.65	6.9	3.25	-0.14	-0.15	0	0	0	0	0	0
8/28/2024 17:47	51003	NHAR_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 17:49	14706	TREX_T1	0	0	0	0	0	0	0.5	0.52	2	2	0	2100	2100	0
8/28/2024 17:49	14705	TREX_T1	57	59	2	1.17	0.68	-0.49	0	0	0	0	0	0	0	0
8/28/2024 17:50	13704	SCHN_T2	37	22	-15	0.62	0.65	0.03	0.4	0.41	0	0	0	0	0	0
8/28/2024 17:53	14605	SWHI_T1	68	55	-13	0.72	0.68	-0.04	0	0	0	0	0	0	0	0
8/28/2024 17:53	64903	MILL_T2	0	0	0	0	0	0	-0.12	-0.17	0	0	0	0	0	0
8/28/2024 17:53	14602	SWHI_T1	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/28/2024 17:53	14601	SWHI_T1	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
8/28/2024 17:53	14603	SWHI_T1	9	10	1	0.67	0.3	-0.37	-0.56	-0.55	2	2	0	1200	1200	0
8/28/2024 17:55	64903	MILL_T2	0	0	0	0	0	0	-0.12	-0.17	0	0	0	0	0	0
8/28/2024 17:56	54601	SUMM_T2	3	3	0	0.97	0.45	-0.52	-1.79	-1.8	3	3	0	3000	3000	0
8/28/2024 17:56	54602	SUMM_T2	15	22	7	0.53	0.67	0.14	-1.65	-1.66	1	1	0	600	600	0
8/28/2024 17:56	54603	SUMM_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/28/2024 17:57	14601	SWHI_T1	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
8/28/2024 17:57	14602	SWHI_T1	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/28/2024 17:57	14605	SWHI_T1	68	55	-13	0.72	0.68	-0.04	0	0	0	0	0	0	0	0
8/28/2024 17:57	14603	SWHI_T1	9	10	1	0.67	0.3	-0.37	-0.56	-0.55	2	2	0	1200	1200	0
8/28/2024 17:58	40502	CRES_T2	7	36	29	0.29	0.31	0.02	-0.61	-0.61	0	0	0	0	0	0
8/28/2024 17:58	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 17:59	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 17:59	40502	CRES_T2	7	36	29	0.29	0.31	0.02	-0.61	-0.61	0	0	0	0	0	0
8/28/2024 18:02	40502	CRES_T2	21	47	26	0.31	0.32	0.01	-2.44	-2.44	0	0	0	0	0	0
8/28/2024 18:02	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 18:03	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 18:03	51004	NHAR_T1	1	13	12	7.1	1.21	-5.89	-0.15	-0.11	0	0	0	0	0	0
8/28/2024 18:03	51003	NHAR_T1	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
8/28/2024 18:03	40502	CRES_T2	21	47	26	0.31	0.32	0.01	-1.22	-1.22	0	0	0	0	0	0
8/28/2024 18:03	23401	HONE_T2	65	48	-17	0.55	0.4	-0.15	0.6	0.64	0	0	0	0	0	0
8/28/2024 18:04	46101	MACI_T2	0	0	0	0	0	0	-0.35	-0.34	1	1	0	1200	1200	0
8/28/2024 18:05	46102	MACI_T1	0	0	0	0	0	0	1.07	1.07	0	0	0	0	0	0
8/28/2024 18:14	64203	KINZ_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/28/2024 18:14	64202	KINZ_T1	2	1	-1	1.25	0	-1.25	0	0	0	0	0	0	0	0
8/28/2024 18:14	64201	KINZ_T1	0	0	0	0	0	0	-1.45	-1.48	5	5	0	3300	3300	0
8/28/2024 18:14	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
8/28/2024 18:20	64701	LITI_T1	12	16	4	2.25	2.09	-0.16	0.21	0.19	1	1	0	900	900	0
8/28/2024 18:24	40603	PIGR_T1	45	44	-1	1.12	0.89	-0.23	0	0	0	0	0	0	0	0
8/28/2024 18:24	40601	PIGR_T1	73	67	-6	0.81	0.65	-0.16	0	0	0	0	0	0	0	0
8/28/2024 18:24	40602	PIGR_T1	52	60	8	0.6	0.59	-0.01	-0.51	-0.5	1	1	0	600	600	0
8/28/2024 18:25	40603	PIGR_T1	45	44	-1	1.12	0.89	-0.23	0	0	0	0	0	0	0	0
8/28/2024 18:25	40602	PIGR_T1	52	60	8	0.6	0.59	-0.01	-0.51	-0.5	1	1	0	600	600	0
8/28/2024 18:25	44202	POIN_T2	0	0	0	0	0	0	0	0.03	1	1	0	1200	1200	0
8/28/2024 18:25	44203	POIN_T2	3	8	5	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/28/2024 18:25	40601	PIGR_T1	73	67	-6	0.81	0.65	-0.16	0	0	0	0	0	0	0	0
8/28/2024 18:26	44203	POIN_T2	3	8	5	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/28/2024 18:26	44202	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 18:29	10705	CATA_T2	1	6	5	0.9	0.1	-0.8	-0.84	-0.84	1	1	0	900	900	0
8/28/2024 18:29	10701	CATA_T2	6	2	-4	1	0.5	-0.5	0	0	0	0	0	0	0	0
8/28/2024 18:29	10702	CATA_T2	5	4	-1	1	0.43	-0.57	0	0	0	0	0	0	0	0
8/28/2024 18:30	10705	CATA_T2	6	2	-4	0.57	0	-0.57	-0.84	-0.84	1	1	0	900	900	0
8/28/2024 18:30	10702	CATA_T2	4	4	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
8/28/2024 18:30	10704	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 18:30	10701	CATA_T2	2	2	0	1.25	0.1	-1.15	0	0	0	0	0	0	0	0
8/28/2024 18:36	58402	MORO_T1	25	16	-9	0.91	0.9	-0.01	0	0	0	0	0	0	0	0
8/28/2024 18:36	58401	MORO_T1	324	289	-35	1.52	0.83	-0.69	-1.56	-1.58	2	2	0	1500	1500	0
8/28/2024 18:40	58401	MORO_T1	324	289	-35	1.52	0.83	-0.69	-1.58	-1.6	2	2	0	1500	1500	0
8/28/2024 18:40	58402	MORO_T1	25	16	-9	0.91	0.9	-0.01	0	0	0	0	0	0	0	0
8/28/2024 18:41	58402	MORO_T1	25	16	-9	0.91	0.9	-0.01	-1.45	-1.54	5	5	0	3150	3150	0
8/28/2024 18:41	58401	MORO_T1	324	289	-35	1.52	0.83	-0.69	-1.58	-1.6	2	2	0	1500	1500	0
8/28/2024 18:44	14802	TREI_T2	0	1	1	0	0	0	1.64	1.58	0	0	0	0	0	0
8/28/2024 18:44	14801	TREI_T2	10	6	-4	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
8/28/2024 18:45	58402	MORO_T1	16	5	-11	1.14	0.13	-1.01	0	0	0	0	0	0	0	0
8/28/2024 18:45	58401	MORO_T1	289	215	-74	1.34	0.63	-0.71	-1.58	-1.6	2	2	0	1500	1500	0
8/28/2024 18:46	45501	DERR_T2	28	22	-6	0.54	0.39	-0.15	0	0	0	0	0	0	0	0
8/28/2024 18:46	16005	DORN_T1	3	2	-1	1.07	0.4	-0.67	0	0	0	0	0	0	0	0
8/28/2024 18:46	45502	DERR_T2	36	39	3	0.56	0.4	-0.16	-0.62	-0.49	1	0	-1	300	0	-300
8/28/2024 18:47	50107	HARR_T3	1	1	0	8.2	7.9	-0.3	0	0	0	0	0	0	0	0
8/28/2024 18:47	50103	HARR_T3	14	12	-2	0.82	0.66	-0.16	0	0	0	0	0	0	0	0
8/28/2024 18:47	50105	HARR_T3	6	7	1	8.42	7.09	-1.33	0	0	0	0	0	0	0	0
8/28/2024 18:47	50201	HARR_T3	1	1	0	9.4	9.9	0.5	0	0	0	0	0	0	0	0
8/28/2024 18:50	61704	ELIZ_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 18:50	61702	ELIZ_T2	1	2	1	0.2	0	-0.2	-0.97	-0.99	2	2	0	1500	1500	0
8/28/2024 18:53	52503	PROG_T2	0	0	0	0	0	0	0.26	0.16	1	1	0	900	900	0
8/28/2024 19:02	12704	MACU_T1	5	0	-5	0.34	0	-0.34	-0.25	-0.35	1	1	0	600	600	0
8/28/2024 19:02	12701	MACU_T1	5	8	3	0.42	0.28	-0.14	0	0	0	0	0	0	0	0
8/28/2024 19:05	44801	EDAN_T2	3	45	42	1.07	0.51	-0.56	-1.07	-1.28	0	0	0	0	0	0
8/28/2024 19:07	44801	EDAN_T2	3	45	42	1.07	0.51	-0.56	-1.28	-1.11	0	0	0	0	0	0
8/28/2024 20:21	66504	SMAN_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/28/2024 20:51	13503	MCMI_T2	1	1	0	0.1	0.1	0	-0.58	-0.59	0	0	0	0	0	0
8/28/2024 20:57	16402	MOPO_T1	1	0	-1	0.1	0	-0.1	0.34	0.35	0	0	0	0	0	0
8/28/2024 20:59	42801	SELI_T1	0	1	1	0	0	0	-0.22	-0.3	1	1	0	1200	1200	0
8/28/2024 20:59	29402	BELT_T1	1	1	0	9	9.2	0.2	0	0	0	0	0	0	0	0
8/28/2024 20:59	15603	NSTR_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
8/28/2024 20:59	29401	BELT_T1	21	30	9	0.18	0.23	0.05	0	0	0	0	0	0	0	0
8/28/2024 21:00	13503	MCMI_T2	0	10	10	0	0.12	0.12	-0.58	-0.59	0	0	0	0	0	0
8/28/2024 21:03	64701	LITI_T1	11	10	-1	2.32	0.81	-1.51	0.13	-0.04	1	1	0	900	900	0
8/28/2024 21:07	48602	POCA_T1	0	0	0	0	0	0	0.05	-0.04	1	1	0	1200	1200	0
8/28/2024 21:08	10805	CHHI_T2	22	33	11	0.82	3.17	2.35	0	0	1	1	0	600	600	0
8/28/2024 21:08	16504	STRO_T1	0	0	0	0	0	0	0.62	0.66	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/28/2024 21:09	46302	ROHR_T1	13	10	-3	0.58	0.73	0.15	0.4	0.38	0	0	0	0	0	0
8/28/2024 21:09	46301	ROHR_T1	224	242	18	0.58	0.52	-0.06	0	0	0	0	0	0	0	0
8/28/2024 21:11	10805	CHHI_T2	22	33	11	0.82	3.17	2.35	0	0	1	1	0	600	600	0
8/28/2024 21:12	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:12	23202	HIRU_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
8/28/2024 21:12	55101	WERT_T1	0	0	0	0	0	0	-6.35	-6.69	12	12	0	9900	9900	0
8/28/2024 21:14	40201	BEGA_T2	2	2	0	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/28/2024 21:16	46302	ROHR_T1	10	5	-5	0.73	1.34	0.61	0.4	0.38	0	0	0	0	0	0
8/28/2024 21:16	61701	ELIZ_T1	1	1	0	1.6	2.8	1.2	2.3	2.26	0	0	0	0	0	0
8/28/2024 21:16	46301	ROHR_T1	200	242	42	0.54	0.48	-0.06	0	0	0	0	0	0	0	0
8/28/2024 21:17	29401	BELT_T1	1	18	17	0.1	0.14	0.04	0	0	1	1	0	900	900	0
8/28/2024 21:17	10805	CHHI_T2	33	5	-28	0.54	4.55	4.01	0	0	1	1	0	600	600	0
8/28/2024 21:17	29402	BELT_T1	1	1	0	7.9	8.6	0.7	0	0	0	0	0	0	0	0
8/28/2024 21:17	55101	WERT_T1	0	0	0	0	0	0	-2.12	-2.23	4	4	0	3300	3300	0
8/28/2024 21:18	10805	CHHI_T2	33	5	-28	0.54	4.55	4.01	0	0	1	1	0	600	600	0
8/28/2024 21:18	29402	BELT_T1	1	1	0	7.9	8.6	0.7	0	0	0	0	0	0	0	0
8/28/2024 21:18	45302	WBER_T2	0	0	0	0	0	0	1.29	1.3	0	0	0	0	0	0
8/28/2024 21:18	29401	BELT_T1	1	18	17	0.1	0.14	0.04	0	0	0	0	0	0	0	0
8/28/2024 21:20	29401	BELT_T1	1	18	17	0.1	0.14	0.04	0	0	1	1	0	900	900	0
8/28/2024 21:20	22805	HAUT_T2	7	2	-5	0.63	0	-0.63	-1.11	-1.14	1	1	0	1200	1200	0
8/28/2024 21:20	22803	HAUT_T2	18	8	-10	0.94	0.58	-0.36	0	0	0	0	0	0	0	0
8/28/2024 21:20	29402	BELT_T1	1	1	0	7.9	8.6	0.7	0	0	0	0	0	0	0	0
8/28/2024 21:21	15001	BLMO_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/28/2024 21:21	42601	TUSC_T1	3	0	-3	0.43	0	-0.43	0.07	0.07	2	2	0	1800	1800	0
8/28/2024 21:22	42601	TUSC_T1	3	0	-3	0.43	0	-0.43	0.07	0.07	2	2	0	1800	1800	0
8/28/2024 21:22	20603	GRWO_T2	0	0	0	0	0	0	-0.31	-0.3	1	1	0	900	900	0
8/28/2024 21:22	15202	SFAR_T1	0	0	0	0	0	0	-0.45	-0.47	1	1	0	1200	1200	0
8/28/2024 21:22	20601	GRWO_T2	203	177	-26	0.97	0.69	-0.28	0	0	0	0	0	0	0	0
8/28/2024 21:23	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:23	29402	BELT_T1	1	1	0	7.9	8.6	0.7	0	0	0	0	0	0	0	0
8/28/2024 21:23	29401	BELT_T1	1	18	17	0.1	0.14	0.04	0	0	2	2	0	1800	1800	0
8/28/2024 21:23	40302	TAMA_T3	1	2	1	0.2	0.25	0.05	-0.93	-0.94	1	1	0	1200	1200	0
8/28/2024 21:24	20403	ASHF_T2	0	1	1	0	0.4	0.4	1.09	1	0	0	0	0	0	0
8/28/2024 21:24	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:24	20401	ASHF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/28/2024 21:24	24105	EHAZ_T1	4	4	0	5.98	5.8	-0.18	0	0	0	0	0	0	0	0
8/28/2024 21:24	24102	EHAZ_T1	4	1	-3	0.65	0.4	-0.25	0.4	0.37	0	0	0	0	0	0
8/28/2024 21:24	24101	EHAZ_T1	0	10	10	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:25	22903	HARW_T1	3	1	-2	0.33	0	-0.33	0	0	0	0	0	0	0	0
8/28/2024 21:25	22901	HARW_T1	6	13	7	0.77	0.32	-0.45	0	0	0	0	0	0	0	0
8/28/2024 21:25	11405	FARM_T1	1	1	0	8.1	7.8	-0.3	0.2	0.16	1	1	0	1200	1200	0
8/28/2024 21:25	22905	HARW_T1	29	18	-11	1.22	0.9	-0.32	0	0	0	0	0	0	0	0
8/28/2024 21:26	12801	MICK_T1	0	0	0	0	0	0	-0.54	-0.63	1	1	0	600	600	0
8/28/2024 21:26	12601	MACA_T1	0	0	0	0	0	0	1.4	1.38	0	0	0	0	0	0
8/28/2024 21:26	12606	MACA_T1	33	34	1	0.83	0.73	-0.1	0	0	0	0	0	0	0	0
8/28/2024 21:26	20601	GRWO_T2	203	177	-26	0.97	0.69	-0.28	1.07	1.05	0	0	0	0	0	0
8/28/2024 21:26	12602	MACA_T1	1	4	3	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/28/2024 21:26	12603	MACA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/28/2024 21:26	12807	MICK_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
8/28/2024 21:27	14801	TREI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/28/2024 21:27	11104	EGYP_T1	0	6	6	0	0.22	0.22	0.8	0.75	0	0	0	0	0	0
8/28/2024 21:27	22901	HARW_T1	6	13	7	0.77	0.32	-0.45	-0.22	-0.25	1	1	0	1200	1200	0
8/28/2024 21:27	11102	EGYP_T1	3	1	-2	0.93	0.3	-0.63	0	0	0	0	0	0	0	0
8/28/2024 21:27	11507	FREE_T2	21	18	-3	0.59	0.33	-0.26	0.55	0.55	1	1	0	600	600	0
8/28/2024 21:27	14802	TREI_T2	0	0	0	0	0	0	1.03	1	0	0	0	0	0	0
8/28/2024 21:27	10801	CHHI_T1	8	11	3	0.71	0.23	-0.48	0	0	3	3	0	2100	2100	0
8/28/2024 21:27	22903	HARW_T1	3	1	-2	0.33	0	-0.33	0	0	0	0	0	0	0	0
8/28/2024 21:27	22905	HARW_T1	29	18	-11	1.22	0.9	-0.32	0	0	0	0	0	0	0	0
8/28/2024 21:28	11504	FREE_T1	0	0	0	0	0	0	-1.74	-1.72	2	2	0	2100	2100	0
8/28/2024 21:28	20601	GRWO_T2	203	177	-26	0.97	0.69	-0.28	1.07	1.05	0	0	0	0	0	0
8/28/2024 21:28	10705	CATA_T2	0	0	0	0	0	0	-1.33	-1.37	1	1	0	900	900	0
8/28/2024 21:28	10801	CHHI_T1	8	11	3	0.71	0.23	-0.48	0	0	3	3	0	2100	2100	0
8/28/2024 21:28	11102	EGYP_T1	3	1	-2	0.93	0.3	-0.63	0	0	0	0	0	0	0	0
8/28/2024 21:28	11104	EGYP_T1	0	6	6	0	0.22	0.22	0.8	0.75	0	0	0	0	0	0
8/28/2024 21:28	42201	SHEN_T2	0	0	0	0	0	0	0.29	0.29	1	1	0	600	600	0
8/28/2024 21:29	15204	SFAR_T2	0	0	0	0	0	0	0.37	0.33	0	0	0	0	0	0
8/28/2024 21:31	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:31	20403	ASHF_T2	1	1	0	0.4	0	-0.4	1.09	1	0	0	0	0	0	0
8/28/2024 21:31	20401	ASHF_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/28/2024 21:31	25603	ARRO_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
8/28/2024 21:32	20601	GRWO_T2	171	117	-54	0.87	0.57	-0.3	1.07	1.05	0	0	0	0	0	0
8/28/2024 21:32	51304	WIND_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
8/28/2024 21:32	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:33	61304	EARL_T1	4	13	9	0.13	0.27	0.14	0	0	0	0	0	0	0	0
8/28/2024 21:33	14302	SUMN_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:33	17401	FOHI_T1	0	0	0	0	0	0	-1.45	-1.43	0	0	0	0	0	0
8/28/2024 21:33	63403	HONY_T2	0	0	0	0	0	0	-1.44	-1.43	1	1	0	600	600	0
8/28/2024 21:33	14308	SUMN_T1	5	2	-3	0.32	0	-0.32	0.47	0.46	0	0	0	0	0	0
8/28/2024 21:33	46101	MACI_T2	0	0	0	0	0	0	0.78	0.75	0	0	0	0	0	0
8/28/2024 21:33	61303	EARL_T1	0	0	0	0	0	0	0.54	0.41	0	0	0	0	0	0
8/28/2024 21:33	14307	SUMN_T1	3	5	2	0.43	0	-0.43	0	0	0	0	0	0	0	0
8/28/2024 21:33	14306	SUMN_T1	23	23	0	1.3	1.3	0	0	0	0	0	0	0	0	0
8/28/2024 21:33	14303	SUMN_T1	3	3	0	6.23	6.2	-0.03	0	0	0	0	0	0	0	0
8/28/2024 21:33	13002	NBET_T2	0	0	0	0	0	0	-1.06	-1.03	2	2	0	2400	2400	0
8/28/2024 21:34	64902	MILL_T2	0	0	0	0	0	0	-0.52	0.03	1	1	0	900	900	0
8/28/2024 21:34	11104	EGYP_T1	6	5	-1	1.07	0	-1.07	0.8	0.75	0	0	0	0	0	0
8/28/2024 21:34	11102	EGYP_T1	1	2	1	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
8/28/2024 21:34	11504	FREE_T1	0	0	0	0	0	0	-1.74	-1.72	2	2	0	2100	2100	0
8/28/2024 21:34	64903	MILL_T2	15	2	-13	0.18	0.6	0.42	0	0	0	0	0	0	0	0
8/28/2024 21:35	60701	BREC_T1	2	0	-2	0.5	0	-0.5	-0.56	-0.01	2	1	-1	1200	600	-600
8/28/2024 21:35	40201	BEGA_T2	0	2	2	0	1	1	0	0	0	0	0	0	0	0
8/28/2024 21:36	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:36	16101	BING_T2	0	0	0	0	0	0	1.08	1.05	0	0	0	0	0	0
8/28/2024 21:37	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:37	14605	SWHI_T1	2	0	-2	1.3	0	-1.3	0	0	0	0	0	0	0	0
8/28/2024 21:37	14603	SWHI_T1	0	0	0	0	0	0	-0.88	-0.88	2	2	0	1200	1200	0
8/28/2024 21:37	64903	MILL_T2	15	2	-13	0.18	0.6	0.42	-0.36	-0.33	0	0	0	0	0	0
8/28/2024 21:37	40502	CRES_T2	1	4	3	0.1	0.18	0.08	-0.48	-0.5	0	0	0	0	0	0
8/28/2024 21:37	67503	WEWI_T2	1	1	0	4.7	5.3	0.6	1.32	0.42	0	0	0	0	0	0
8/28/2024 21:37	66703	STRA_T1	0	0	0	0	0	0	-0.32	-0.36	0	0	0	0	0	0
8/28/2024 21:37	57403	SPAN_T1	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
8/28/2024 21:38	67605	WARW_T1	3	3	0	1.63	1.47	-0.16	-0.84	-0.89	0	0	0	0	0	0
8/28/2024 21:38	60701	BREC_T1	2	0	-2	0.5	0	-0.5	-0.01	-0.06	1	1	0	600	600	0
8/28/2024 21:38	14706	TREX_T1	0	0	0	0	0	0	0.06	0.03	2	2	0	2100	2100	0
8/28/2024 21:38	64204	KINZ_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
8/28/2024 21:38	52002	LING_T2	0	0	0	0	0	0	-0.06	-0.12	1	1	0	900	900	0
8/28/2024 21:38	64201	KINZ_T1	0	1	1	0	0.2	0.2	-0.78	-0.82	4	4	0	2100	2100	0
8/28/2024 21:38	40201	BEGA_T2	0	2	2	0	1	1	0	0	0	0	0	0	0	0
8/28/2024 21:38	25402	LAHA_T2	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
8/28/2024 21:38	10705	CATA_T2	0	0	0	0	0	0	-1.37	-1.4	1	1	0	900	900	0
8/28/2024 21:38	55101	WERT_T1	0	0	0	0	0	0	-2.29	-2.38	4	4	0	3300	3300	0
8/28/2024 21:38	10701	CATA_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
8/28/2024 21:38	48302	ORWI_T2	2	2	0	0.35	0.6	0.25	-0.83	-0.25	0	0	0	0	0	0
8/28/2024 21:38	67503	WEWI_T2	1	1	0	4.7	5.3	0.6	0.66	0.21	0	0	0	0	0	0
8/28/2024 21:38	67603	WARW_T1	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
8/28/2024 21:38	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/28/2024 21:38	64202	KINZ_T1	2	3	1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
8/28/2024 21:38	52004	LING_T2	2	2	0	5.1	5.35	0.25	0.23	0.2	0	0	0	0	0	0
8/28/2024 21:38	57401	SPAN_T1	0	0	0	0	0	0	-0.4	-0.46	1	1	0	600	600	0
8/28/2024 21:39	61102	BERK_T5	0	0	0	0	0	0	0.72	0.53	1	1	0	300	300	0
8/28/2024 21:39	64903	MILL_T2	15	2	-13	0.18	0.6	0.42	-0.36	-0.33	0	0	0	0	0	0
8/28/2024 21:39	61303	EARL_T1	0	0	0	0	0	0	0.41	0.52	0	0	0	0	0	0
8/28/2024 21:39	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:39	60101	COCA_T1	0	0	0	0	0	0	-0.97	-0.92	3	3	0	3600	3600	0
8/28/2024 21:39	20401	ASHF_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/28/2024 21:39	20403	ASHF_T2	1	1	0	0.4	0	-0.4	1	0.93	0	0	0	0	0	0
8/28/2024 21:39	14603	SWHI_T1	0	0	0	0	0	0	-0.88	-0.88	2	2	0	1200	1200	0
8/28/2024 21:39	65001	NEFF_T2	0	0	0	0	0	0	0.06	-0.09	1	1	0	1200	1200	0
8/28/2024 21:39	60502	NMAN_T2	0	0	0	0	0	0	0.97	0.73	0	0	0	0	0	0
8/28/2024 21:39	61304	EARL_T1	4	13	9	0.13	0.27	0.14	0	0	0	0	0	0	0	0
8/28/2024 21:39	14605	SWHI_T1	2	0	-2	1.3	0	-1.3	0	0	0	0	0	0	0	0
8/28/2024 21:39	66504	SMAN_T2	0	0	0	0	0	0	-0.88	-0.98	2	2	0	2400	2400	0
8/28/2024 21:39	16001	DORN_T1	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
8/28/2024 21:39	12704	MACU_T1	0	0	0	0	0	0	-0.68	-0.73	1	1	0	600	600	0
8/28/2024 21:39	14702	TREX_T2	0	0	0	0	0	0	1.56	1.55	0	0	0	0	0	0
8/28/2024 21:40	16006	DORN_T2	6	6	0	0.25	1.12	0.87	0	0	0	0	0	0	0	0
8/28/2024 21:40	62606	ENGL_T1	14	10	-4	2.05	1.73	-0.32	0	0	0	0	0	0	0	0
8/28/2024 21:40	62604	ENGL_T1	1	1	0	1.1	0	-1.1	-0.12	-0.14	1	1	0	600	600	0
8/28/2024 21:40	62607	ENGL_T1	1	1	0	2.3	1.2	-1.1	0	0	0	0	0	0	0	0
8/28/2024 21:40	67602	WARW_T2	0	0	0	0	0	0	-0.08	-0.09	2	2	0	1500	1500	0
8/28/2024 21:40	46102	MACI_T1	0	0	0	0	0	0	0.98	1	0	0	0	0	0	0
8/28/2024 21:40	58401	MORO_T1	1	1	0	0.3	0	-0.3	-2.33	-1.44	2	1	-1	1500	600	-900
8/28/2024 21:40	66402	ROBE_T1	0	0	0	0	0	0	-1.5	-1.58	2	2	0	1500	1500	0
8/28/2024 21:40	16002	DORN_T2	0	0	0	0	0	0	0.14	0.11	1	1	0	1200	1200	0
8/28/2024 21:41	51603	DUKE_T1	0	0	0	0	0	0	-0.34	0.48	0	0	0	0	0	0
8/28/2024 21:41	60101	COCA_T1	0	0	0	0	0	0	-0.32	-0.31	1	1	0	1200	1200	0
8/28/2024 21:41	13704	SOHN_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
8/28/2024 21:42	26402	INOR_T1	1	4	3	0.3	0.85	0.55	0	0	0	0	0	0	0	0
8/28/2024 21:42	52204	DEVO_T2	3	3	0	0.93	0.57	-0.36	0	0	0	0	0	0	0	0
8/28/2024 21:42	57401	SPAN_T1	0	0	0	0	0	0	-0.4	-0.46	1	1	0	600	600	0
8/28/2024 21:42	45902	AUBU_T1	0	1	1	0	0.3	0.3	-1.19	-1.36	2	2	0	1200	1200	0
8/28/2024 21:42	52202	DEVO_T2	0	0	0	0	0	0	-1.91	-1.94	0	0	0	0	0	0
8/28/2024 21:42	64903	MILL_T2	15	2	-13	0.18	0.6	0.42	0	0	0	0	0	0	0	0
8/28/2024 21:42	64902	MILL_T2	0	0	0	0	0	0	0.03	-0.6	1	1	0	900	900	0
8/28/2024 21:42	26401	INOR_T1	6	4	-2	1.27	2.85	1.58	0.77	0.77	0	0	0	0	0	0
8/28/2024 21:42	65001	NEFF_T2	0	0	0	0	0	0	0.06	-0.09	1	1	0	1200	1200	0
8/28/2024 21:42	14702	TREX_T2	0	0	0	0	0	0	1.56	1.55	0	0	0	0	0	0
8/28/2024 21:42	65901	SAKR_T2	1	1	0	6.9	7.1	0.2	0.11	0.14	1	1	0	600	600	0
8/28/2024 21:43	60502	NMAN_T2	0	0	0	0	0	0	0.97	0.73	0	0	0	0	0	0
8/28/2024 21:43	12006	HATF_T1	0	0	0	0	0	0	0.23	0.16	2	2	0	2400	2400	0
8/28/2024 21:43	67602	WARW_T2	0	0	0	0	0	0	-0.08	-0.09	2	2	0	1500	1500	0
8/28/2024 21:43	62604	ENGL_T1	1	1	0	1.1	0	-1.1	-0.24	-0.27	2	2	0	1200	1200	0
8/28/2024 21:43	53903	HALI_T2	2	2	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/28/2024 21:43	62606	ENGL_T1	14	10	-4	2.05	1.73	-0.32	0	0	0	0	0	0	0	0
8/28/2024 21:43	53902	HALI_T2	1	1	0	4.9	5.3	0.4	-0.61	-0.63	0	0	0	0	0	0
8/28/2024 21:43	64602	LEOL_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
8/28/2024 21:43	63203	MGTN_T1	0	0	0	0	0	0	-0.56	-0.55	2	2	0	1200	1200	0
8/28/2024 21:43	54602	SUMM_T2	0	0	0	0	0	0	-1.87	-1.79	1	1	0	600	600	0
8/28/2024 21:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:43	64101	REFR_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
8/28/2024 21:43	61703	ELIZ_T1	0	0	0	0	0	0	-2.44	-2.44	2	2	0	2100	2100	0
8/28/2024 21:43	40502	CRES_T2	1	4	3	0.1	0.18	0.08	-0.48	-0.5	0	0	0	0	0	0
8/28/2024 21:43	41301	FISH_T1	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
8/28/2024 21:43	61701	ELIZ_T1	1	1	0	2.2	3	0.8	0	0	0	0	0	0	0	0
8/28/2024 21:43	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:43	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.41	-0.43	0	0	0	0	0	0
8/28/2024 21:43	67605	WARW_T1	3	3	0	1.63	1.47	-0.16	-0.84	-0.89	0	0	0	0	0	0
8/28/2024 21:43	64301	LINC_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
8/28/2024 21:43	46101	MACJ_T2	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
8/28/2024 21:43	62607	ENGL_T1	1	1	0	2.3	1.2	-1.1	0	0	0	0	0	0	0	0
8/28/2024 21:43	27605	PIRI_T2	89	70	-19	0.78	0.66	-0.12	1.11	1.14	0	0	0	0	0	0
8/28/2024 21:43	12701	MACU_T1	0	0	0	0	0	0	-1.58	-1.59	2	2	0	2400	2400	0
8/28/2024 21:43	45902	AUBU_T1	0	1	1	0	0.3	0.3	-0.6	-0.68	1	1	0	600	600	0
8/28/2024 21:43	60701	BREC_T1	2	0	-2	0.5	0	-0.5	-0.01	-0.06	1	1	0	600	600	0
8/28/2024 21:43	66703	STRA_T1	0	0	0	0	0	0	-0.32	-0.36	0	0	0	0	0	0
8/28/2024 21:43	65604	QVIL_T2	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
8/28/2024 21:44	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:44	66504	SMAN_T2	0	0	0	0	0	0	-0.44	-0.49	1	1	0	1200	1200	0
8/28/2024 21:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:44	67605	WARW_T1	3	3	0	1.63	1.47	-0.16	-0.84	-0.89	0	0	0	0	0	0
8/28/2024 21:44	51401	LYKE_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
8/28/2024 21:44	12305	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:44	12304	LANA_T2	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/28/2024 21:44	63602	LETO_T1	0	0	0	0	0	0	-0.32	-0.42	1	1	0	600	600	0
8/28/2024 21:44	60101	COCA_T1	0	0	0	0	0	0	-0.32	-0.31	1	1	0	1200	1200	0
8/28/2024 21:44	12302	LANA_T2	0	0	0	0	0	0	-1.88	-1.93	3	3	0	2700	2700	0
8/28/2024 21:44	61701	ELIZ_T1	1	1	0	2.2	3	0.8	0	0	0	0	0	0	0	0
8/28/2024 21:44	66703	STRA_T1	0	0	0	0	0	0	-0.32	-0.36	0	0	0	0	0	0
8/28/2024 21:44	61703	ELIZ_T1	0	0	0	0	0	0	-4.87	-4.89	4	4	0	4200	4200	0
8/28/2024 21:44	65603	QVIL_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
8/28/2024 21:44	48302	ORWI_T2	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
8/28/2024 21:44	40502	CRES_T2	1	4	3	0.1	0.18	0.08	-0.48	-0.5	0	0	0	0	0	0
8/28/2024 21:44	47101	MARL_T1	37	53	16	0.78	1.13	0.35	-0.73	-0.23	1	0	-1	600	0	-600
8/28/2024 21:44	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:44	51402	LYKE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:44	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.17	0	0	0	0	0	0
8/28/2024 21:45	16103	BING_T2	0	0	0	0	0	0	-1.14	-1.2	2	2	0	1500	1500	0
8/28/2024 21:45	65205	PRIN_T1	1	1	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
8/28/2024 21:45	10603	BLGL_T1	138	102	-36	0.94	0.89	-0.05	0.86	0.77	0	0	0	0	0	0
8/28/2024 21:45	56504	ROCK_T2	0	0	0	0	0	0	-2.12	-2.23	0	0	0	0	0	0
8/28/2024 21:45	56501	ROCK_T2	2	0	-2	0.1	0	-0.1	-0.41	-0.43	0	0	0	0	0	0
8/28/2024 21:45	65202	PRIN_T1	1	0	-1	2.3	0	-2.3	0	0	0	0	0	0	0	0
8/28/2024 21:45	14706	TREX_T1	0	0	0	0	0	0	0.06	0.03	2	2	0	2100	2100	0
8/28/2024 21:45	67605	WARW_T1	3	3	0	1.47	1.47	0	-0.84	-0.89	0	0	0	0	0	0
8/28/2024 21:46	61102	BERK_T5	0	0	0	0	0	0	0.72	0.53	1	1	0	300	300	0
8/28/2024 21:46	64101	REFR_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
8/28/2024 21:46	47401	PENS_T1	1	0	-1	0.4	0	-0.4	0.63	0.75	0	0	0	0	0	0
8/28/2024 21:46	54203	PENN_T1	5	5	0	1.3	1.22	-0.08	0	0	0	0	0	0	0	0
8/28/2024 21:46	52202	DEVO_T2	0	0	0	0	0	0	-1.91	-1.94	0	0	0	0	0	0
8/28/2024 21:46	52204	DEVO_T2	3	5	2	0.57	0.77	0.2	0	0	0	0	0	0	0	0
8/28/2024 21:46	56501	ROCK_T2	2	0	-2	0.1	0	-0.1	-0.41	-0.43	0	0	0	0	0	0
8/28/2024 21:46	54201	PENN_T1	12	9	-3	0.59	0.73	0.14	-1.63	-1.63	0	0	0	0	0	0
8/28/2024 21:46	47101	MARL_T1	33	57	24	1.13	0.97	-0.16	-0.73	-0.23	1	0	-1	600	0	-600
8/28/2024 21:47	51002	NHAR_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/28/2024 21:47	54601	SUMM_T2	0	0	0	0	0	0	-1.23	-1.23	2	2	0	2100	2100	0
8/28/2024 21:47	62604	ENGL_T1	0	1	1	0	0.4	0.4	-0.12	-0.14	1	1	0	600	600	0
8/28/2024 21:47	54203	PENN_T1	5	5	0	1.3	1.22	-0.08	0	0	0	0	0	0	0	0
8/28/2024 21:47	54201	PENN_T1	12	9	-3	0.59	0.73	0.14	-1.63	-1.63	0	0	0	0	0	0
8/28/2024 21:47	62607	ENGL_T1	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
8/28/2024 21:47	62606	ENGL_T1	9	13	4	1.73	1.86	0.13	0	0	0	0	0	0	0	0
8/28/2024 21:47	51003	NHAR_T1	0	5	5	0	0	0	-2.51	-2.54	1	1	0	1200	1200	0
8/28/2024 21:47	51004	NHAR_T1	1	1	0	6.2	6.4	0.2	0	0	0	0	0	0	0	0
8/28/2024 21:47	63401	HONY_T1	0	0	0	0	0	0	-0.36	-0.1	1	1	0	600	600	0
8/28/2024 21:47	64802	MONE_T2	0	7	7	0	0.1	0.1	0.31	0.32	0	0	0	0	0	0
8/28/2024 21:47	53501	EVIL_T2	1	6	5	1.1	0.5	-0.6	-0.02	-0.02	6	6	0	3600	3600	0
8/28/2024 21:47	64801	MONE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/28/2024 21:48	64203	KINZ_T1	0	0	0	0	0	0	-1.2	-1.22	3	3	0	2100	2100	0
8/28/2024 21:48	25503	MADI_T1	0	0	0	0	0	0	-0.57	-0.61	0	0	0	0	0	0
8/28/2024 21:48	23401	HONE_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
8/28/2024 21:48	45801	HEGI_T1	0	0	0	0	0	0	-0.22	0.33	1	1	0	900	900	0
8/28/2024 21:48	60701	BREC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:48	53502	EVIL_T2	0	0	0	0	0	0	-1.35	-0.82	3	2	-1	2100	1500	-600
8/28/2024 21:48	40602	PIGR_T1	1	1	0	0.7	0.5	-0.2	-0.41	-0.53	0	0	0	0	0	0
8/28/2024 21:48	40601	PIGR_T1	4	11	7	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
8/28/2024 21:48	61102	BERK_T5	0	0	0	0	0	0	0.72	0.53	1	1	0	300	300	0
8/28/2024 21:48	61703	ELIZ_T1	0	0	0	0	0	0	-2.44	-2.44	2	2	0	2100	2100	0
8/28/2024 21:48	53501	EVIL_T2	1	6	5	1.1	0.5	-0.6	-0.01	-0.01	4	4	0	2400	2400	0
8/28/2024 21:48	23102	MOSC_T2	0	0	0	0	0	0	-0.27	-0.3	2	2	0	1800	1800	0
8/28/2024 21:48	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
8/28/2024 21:48	53601	DALM_T2	1	1	0	0.1	0.3	0.2	-0.04	0.13	1	1	0	600	600	0
8/28/2024 21:48	52004	LING_T2	2	2	0	5.35	5.4	0.05	0	0	0	0	0	0	0	0
8/28/2024 21:48	64202	KINZ_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/28/2024 21:48	61701	ELIZ_T1	1	1	0	2.8	3	0.2	2.32	2.14	0	0	0	0	0	0
8/28/2024 21:48	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:48	40502	CRES_T2	2	4	2	0.1	0.2	0.1	-0.48	-0.5	0	0	0	0	0	0
8/28/2024 21:48	52002	LING_T2	0	0	0	0	0	0	-0.06	-0.12	1	1	0	900	900	0
8/28/2024 21:48	64201	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/28/2024 21:48	42701	AUGU_T1	1	4	3	0.2	0	-0.2	0	0	2	2	0	1800	1800	0
8/28/2024 21:49	61402	SLIT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:49	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:49	57401	SPAN_T1	0	0	0	0	0	0	-0.4	-0.46	1	1	0	600	600	0
8/28/2024 21:49	11001	EGRE_T1	0	0	0	0	0	0	0.08	0.02	1	1	0	1200	1200	0
8/28/2024 21:49	64201	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/28/2024 21:49	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:49	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:49	41702	LOGA_T2	68	27	-41	0.25	0.16	-0.09	0	0	0	0	0	0	0	0
8/28/2024 21:49	57403	SPAN_T1	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
8/28/2024 21:49	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:49	51003	NHAR_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:49	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
8/28/2024 21:49	40101	HUNT_T2	27	22	-5	0.38	0.15	-0.23	0	0	0	0	0	0	0	0
8/28/2024 21:49	11804	FRAN_T1	121	84	-37	0.64	0.5	-0.14	0.74	0.74	0	0	0	0	0	0
8/28/2024 21:49	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
8/28/2024 21:49	64202	KINZ_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/28/2024 21:49	40601	PIGR_T1	4	11	7	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
8/28/2024 21:49	53902	HALI_T2	1	1	0	5.3	4.9	-0.4	-0.61	-0.63	0	0	0	0	0	0
8/28/2024 21:49	43802	SWIL_T1	0	0	0	0	0	0	1.07	1.06	0	0	0	0	0	0
8/28/2024 21:49	47901	HRDG_T1	0	0	0	0	0	0	1.88	1.72	1	1	0	1200	1200	0
8/28/2024 21:49	61701	ELIZ_T1	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
8/28/2024 21:49	16201	POFA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:49	66703	STRA_T1	0	0	0	0	0	0	-0.63	-0.72	0	0	0	0	0	0
8/28/2024 21:49	46802	HEPB_T1	37	36	-1	0.21	0.22	0.01	0.05	0.01	0	0	0	0	0	0
8/28/2024 21:49	50105	HARR_T3	8	14	6	6.15	4.89	-1.26	0	0	0	0	0	0	0	0
8/28/2024 21:49	51004	NHAR_T1	1	1	0	6.2	6.4	0.2	-0.41	-0.45	0	0	0	0	0	0
8/28/2024 21:49	47104	MARL_T1	0	0	0	0	0	0	-0.25	-0.29	0	0	0	0	0	0
8/28/2024 21:49	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:49	50201	HARR_T3	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/28/2024 21:49	40502	CRES_T2	2	4	2	0.1	0.2	0.1	-0.96	-1	0	0	0	0	0	0
8/28/2024 21:49	56501	ROCK_T2	2	0	-2	0.1	0	-0.1	-1.22	-1.28	0	0	0	0	0	0
8/28/2024 21:49	53803	MBRG_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
8/28/2024 21:49	64203	KINZ_T1	0	0	0	0	0	0	-1.2	-1.22	3	3	0	2100	2100	0
8/28/2024 21:49	50103	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/28/2024 21:49	67201	TEHI_T1	0	0	0	0	0	0	0.35	0.25	0	0	0	0	0	0
8/28/2024 21:49	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.17	0	0	0	0	0	0
8/28/2024 21:49	50107	HARR_T3	1	1	0	7.5	7.2	-0.3	0	0	0	0	0	0	0	0
8/28/2024 21:49	51002	NHAR_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/28/2024 21:49	53903	HALI_T2	2	1	-1	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
8/28/2024 21:49	52004	LING_T2	2	2	0	5.35	5.4	0.05	0.23	0.2	0	0	0	0	0	0
8/28/2024 21:49	22002	BOHE_T1	0	0	0	0	0	0	-0.73	-0.76	0	0	0	0	0	0
8/28/2024 21:49	42902	MIDD_T2	1	0	-1	0.1	0	-0.1	-0.55	-0.55	1	1	0	600	600	0
8/28/2024 21:49	21206	ECAR_T2	11	12	1	1.51	8.2	6.69	0.69	0.74	0	0	0	0	0	0
8/28/2024 21:49	47101	MARL_T1	33	57	24	1.13	0.97	-0.16	0	0	0	0	0	0	0	0
8/28/2024 21:49	67602	WARW_T2	0	0	0	0	0	0	-0.08	-0.09	2	2	0	1500	1500	0
8/28/2024 21:49	40602	PIGR_T1	1	1	0	0.7	0.5	-0.2	-0.41	-0.53	0	0	0	0	0	0
8/28/2024 21:49	60101	COCA_T1	0	0	0	0	0	0	-0.32	-0.31	1	1	0	1200	1200	0
8/28/2024 21:49	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:49	22001	BOHE_T1	0	0	0	0	0	0	-1.33	-1.33	1	1	0	600	600	0
8/28/2024 21:49	43801	SWIL_T1	8	13	5	0.98	0.7	-0.28	0	0	0	0	0	0	0	0
8/28/2024 21:50	53902	HALI_T2	1	1	0	5.3	4.9	-0.4	-0.61	-0.63	0	0	0	0	0	0
8/28/2024 21:50	67602	WARW_T2	0	0	0	0	0	0	-0.16	-0.17	4	4	0	3000	3000	0
8/28/2024 21:50	47401	PENS_T1	1	0	-1	0.4	0	-0.4	0.63	0.75	0	0	0	0	0	0
8/28/2024 21:50	40601	PIGR_T1	4	11	7	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
8/28/2024 21:50	41301	FISH_T1	2	2	0	0.35	0.3	-0.05	-0.27	-0.29	0	0	0	0	0	0
8/28/2024 21:50	61102	BERK_T5	0	0	0	0	0	0	0.72	0.53	1	1	0	300	300	0
8/28/2024 21:50	40602	PIGR_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
8/28/2024 21:50	53903	HALI_T2	2	1	-1	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
8/28/2024 21:50	63602	LETO_T1	0	0	0	0	0	0	-0.32	-0.42	1	1	0	600	600	0
8/28/2024 21:51	40502	CRES_T2	2	4	2	0.1	0.2	0.1	-0.5	-0.56	0	0	0	0	0	0
8/28/2024 21:51	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/28/2024 21:51	45402	WBLO_T2	1	28	27	0.3	0.22	-0.08	-1.03	-1.11	1	1	0	900	900	0
8/28/2024 21:51	40201	BEGA_T2	1	2	1	2.4	0.55	-1.85	0	0	0	0	0	0	0	0
8/28/2024 21:51	46501	LOHA_T1	0	0	0	0	0	0	0.45	0.42	1	1	0	1200	1200	0
8/28/2024 21:51	63304	GREE_T1	1	1	0	5	4.6	-0.4	0	0	0	0	0	0	0	0
8/28/2024 21:51	26402	INOR_T1	4	4	0	0.95	0.15	-0.8	-1.58	-1.69	1	1	0	600	600	0
8/28/2024 21:51	46504	LOHA_T1	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
8/28/2024 21:51	55405	SHER_T1	0	4	4	0	0.15	0.15	-0.17	-0.17	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/28/2024 21:51	26401	INOR_T1	3	3	0	1.93	2.55	0.62	0	0	0	0	0	0	0	0
8/28/2024 21:51	60101	COCA_T1	0	0	0	0	0	0	-0.31	-0.38	1	1	0	1200	1200	0
8/28/2024 21:51	63302	GREE_T1	0	0	0	0	0	0	0.81	0.77	0	0	0	0	0	0
8/28/2024 21:51	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:51	63305	GREE_T1	3	3	0	0.27	0.33	0.06	0	0	0	0	0	0	0	0
8/28/2024 21:51	46506	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/28/2024 21:52	44802	EDAN_T2	0	0	0	0	0	0	-1.53	-1.56	0	0	0	0	0	0
8/28/2024 21:52	46001	BERW_T1	1	0	-1	0.1	0	-0.1	-0.42	-0.47	0	0	0	0	0	0
8/28/2024 21:52	40101	HUNT_T2	27	22	-5	0.38	0.15	-0.23	-1.29	-1.38	0	0	0	0	0	0
8/28/2024 21:52	56501	ROCK_T2	2	0	-2	0.1	0	-0.1	-0.43	-0.48	0	0	0	0	0	0
8/28/2024 21:52	44801	EDAN_T2	18	73	55	0.25	0.38	0.13	0	0	0	0	0	0	0	0
8/28/2024 21:52	22602	KIMB_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
8/28/2024 21:52	40201	BEGA_T2	1	2	1	2.4	0.55	-1.85	0	0	0	0	0	0	0	0
8/28/2024 21:52	51204	MTON_T2	0	1	1	0	0.4	0.4	-1.12	-1.17	2	2	0	1500	1500	0
8/28/2024 21:52	66703	STRA_T1	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
8/28/2024 21:53	43103	SMIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/28/2024 21:53	52002	LING_T2	0	0	0	0	0	0	-0.12	-0.11	1	1	0	900	900	0
8/28/2024 21:53	55001	NEWP_T1	0	0	0	0	0	0	-0.34	-0.38	1	1	0	600	600	0
8/28/2024 21:53	52004	LING_T2	2	2	0	5.35	5.4	0.05	0	0	0	0	0	0	0	0
8/28/2024 21:53	51002	NHAR_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
8/28/2024 21:53	46803	HEPB_T2	2	4	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
8/28/2024 21:53	42701	AUGU_T1	1	4	3	0.2	0	-0.2	0	0	2	2	0	1800	1800	0
8/28/2024 21:53	46503	LOHA_T1	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
8/28/2024 21:53	46506	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/28/2024 21:53	45502	DERR_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
8/28/2024 21:53	53501	EVIL_T2	1	6	5	1.1	0.5	-0.6	-0.01	-0.01	2	2	0	1200	1200	0
8/28/2024 21:53	46206	DANV_T2	14	2	-12	0.58	0.9	0.32	1.85	1.41	2	2	0	2100	2100	0
8/28/2024 21:53	56504	ROCK_T2	0	0	0	0	0	0	-0.74	-0.79	0	0	0	0	0	0
8/28/2024 21:53	51004	NHAR_T1	1	1	0	6.2	6.4	0.2	-0.45	-0.52	0	0	0	0	0	0
8/28/2024 21:53	43104	SMIL_T2	0	0	0	0	0	0	-0.46	-0.5	1	1	0	300	300	0
8/28/2024 21:53	55002	NEWP_T1	3	3	0	0.53	0.63	0.1	0	0	0	0	0	0	0	0
8/28/2024 21:53	47001	HUGH_T2	45	81	36	0.85	0.67	-0.18	-1.2	-0.26	1	0	-1	900	0	-900
8/28/2024 21:53	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.11	0	0	0	0	0	0
8/28/2024 21:53	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:53	46801	HEPB_T2	14	23	9	0.34	0.33	-0.01	0.15	0.05	0	0	0	0	0	0
8/28/2024 21:53	45501	DERR_T2	2	2	0	0.6	0.95	0.35	0	0	0	0	0	0	0	0
8/28/2024 21:53	56501	ROCK_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/28/2024 21:53	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:53	46504	LOHA_T1	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
8/28/2024 21:53	51003	NHAR_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:53	40502	CRES_T2	2	4	2	0.1	0.2	0.1	-0.5	-0.56	0	0	0	0	0	0
8/28/2024 21:53	51204	MTON_T2	0	1	1	0	0.4	0.4	-1.12	-1.17	2	2	0	1500	1500	0
8/28/2024 21:53	57401	SPAN_T1	0	0	0	0	0	0	-0.46	-0.78	1	1	0	600	600	0
8/28/2024 21:53	46203	DANV_T2	7	7	0	1.3	1.47	0.17	0	0	0	0	0	0	0	0
8/28/2024 21:53	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/28/2024 21:53	47002	HUGH_T2	3	18	15	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
8/28/2024 21:53	25603	ARRO_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
8/28/2024 21:53	43108	SMIL_T2	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
8/28/2024 21:53	43102	SMIL_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
8/28/2024 21:53	47101	MARL_T1	33	57	24	1.13	0.97	-0.16	-0.23	-0.24	0	0	0	0	0	0
8/28/2024 21:53	43105	SMIL_T2	1	3	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
8/28/2024 21:53	67602	WARW_T2	0	0	0	0	0	0	-0.09	-0.16	2	2	0	1500	1500	0
8/28/2024 21:54	55002	NEWP_T1	3	3	0	0.53	0.63	0.1	0.01	0	0	0	0	0	0	0
8/28/2024 21:54	43105	SMIL_T2	1	3	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
8/28/2024 21:54	46203	DANV_T2	7	7	0	1.3	1.47	0.17	0	0	0	0	0	0	0	0
8/28/2024 21:54	46004	BERW_T2	0	1	1	0	0	0	0.51	0.47	0	0	0	0	0	0
8/28/2024 21:54	64201	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/28/2024 21:54	43102	SMIL_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
8/28/2024 21:54	44801	EDAN_T2	18	73	55	0.25	0.38	0.13	0	0	0	0	0	0	0	0
8/28/2024 21:54	42903	MIDD_T2	0	0	0	0	0	0	-0.93	-0.95	1	1	0	1200	1200	0
8/28/2024 21:54	61702	ELIZ_T2	0	0	0	0	0	0	-1.3	-1.34	2	2	0	1500	1500	0
8/28/2024 21:54	41901	REED_T1	9	9	0	0.98	1	0.02	0	0	0	0	0	0	0	0
8/28/2024 21:54	43802	SWIL_T1	0	0	0	0	0	0	1.06	1.06	0	0	0	0	0	0
8/28/2024 21:54	40601	PIGR_T1	4	11	7	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
8/28/2024 21:54	45501	DERR_T2	2	2	0	0.6	0.95	0.35	1.01	0.52	6	6	0	5400	5400	0
8/28/2024 21:54	67801	WLAN_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:54	52402	GRPA_T2	5	4	-1	0.52	0.33	-0.19	0	0	0	0	0	0	0	0
8/28/2024 21:54	43104	SMIL_T2	0	0	0	0	0	0	-1.37	-1.49	3	3	0	900	900	0
8/28/2024 21:54	40602	PIGR_T1	1	1	0	0.7	0.5	-0.2	-0.53	-0.84	0	0	0	0	0	0
8/28/2024 21:54	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/28/2024 21:54	67805	WLAN_T1	0	0	0	0	0	0	-0.91	-0.94	0	0	0	0	0	0
8/28/2024 21:54	52002	LING_T2	0	0	0	0	0	0	-0.12	-0.11	1	1	0	900	900	0
8/28/2024 21:54	41902	REED_T1	5	2	-3	0.4	0	-0.4	0.6	0.59	1	1	0	900	900	0
8/28/2024 21:54	40901	JESH_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/28/2024 21:54	44802	EDAN_T2	0	0	0	0	0	0	-1.53	-1.56	0	0	0	0	0	0
8/28/2024 21:54	52404	GRPA_T2	0	1	1	0	0	0	0.2	0.14	0	0	0	0	0	0
8/28/2024 21:54	67605	WARW_T1	3	3	0	1.47	1.47	0	-1.77	-1.51	0	0	0	0	0	0
8/28/2024 21:54	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
8/28/2024 21:54	46206	DANV_T2	14	2	-12	0.58	0.9	0.32	1.85	1.41	2	2	0	2100	2100	0
8/28/2024 21:54	42701	AUGU_T1	1	4	3	0.2	0	-0.2	0	0	2	2	0	1800	1800	0
8/28/2024 21:54	45802	HEGI_T2	0	8	8	0	0.46	0.46	0.83	0.95	1	1	0	300	300	0
8/28/2024 21:54	40902	JESH_T1	0	0	0	0	0	0	-2.1	-0.45	3	0	-3	1800	0	-1800
8/28/2024 21:54	52004	LING_T2	2	2	0	5.35	5.4	0.05	0	0	0	0	0	0	0	0
8/28/2024 21:54	43801	SWIL_T1	8	13	5	0.98	0.7	-0.28	0	0	0	0	0	0	0	0
8/28/2024 21:54	46205	DANV_T2	0	0	0	0	0	0	-0.5	-0.5	1	1	0	1200	1200	0
8/28/2024 21:54	43103	SMIL_T2	0	2	2	0	0.2	0.2	-1.62	-1.7	0	0	0	0	0	0
8/28/2024 21:54	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.11	0	0	0	0	0	0
8/28/2024 21:54	53501	EVIL_T2	1	6	5	1.1	0.5	-0.6	-0.01	-0.01	4	4	0	2400	2400	0
8/28/2024 21:54	56501	ROCK_T2	2	0	-2	0.1	0	-0.1	-0.43	-0.48	0	0	0	0	0	0
8/28/2024 21:54	64202	KINZ_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/28/2024 21:54	23401	HONE_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
8/28/2024 21:54	42902	MIDD_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/28/2024 21:54	64203	KINZ_T1	0	0	0	0	0	0	-1.22	-1.27	3	3	0	2100	2100	0
8/28/2024 21:54	45801	HEGI_T1	0	0	0	0	0	0	0.33	0.33	1	1	0	900	900	0
8/28/2024 21:54	58401	MORO_T1	0	1	1	0	0	0	-2.88	-2.87	2	2	0	1200	1200	0
8/28/2024 21:54	53502	EVIL_T2	0	0	0	0	0	0	-0.82	-0.79	2	2	0	1500	1500	0
8/28/2024 21:54	57403	SPAN_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
8/28/2024 21:54	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/28/2024 21:54	47101	MARL_T1	33	57	24	1.13	0.97	-0.16	-0.23	-0.24	0	0	0	0	0	0
8/28/2024 21:54	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:54	60101	COCA_T1	0	0	0	0	0	0	-0.31	-0.38	1	1	0	1200	1200	0
8/28/2024 21:55	58401	MORO_T1	0	1	1	0	0	0	-4.32	-4.31	3	3	0	1800	1800	0
8/28/2024 21:55	47001	HUGH_T2	45	81	36	0.85	0.67	-0.18	-1.2	-0.26	1	0	-1	900	0	-900
8/28/2024 21:55	42802	SELI_T1	0	0	0	0	0	0	-0.94	-0.97	1	1	0	900	900	0
8/28/2024 21:55	40101	HUNT_T2	27	22	-5	0.38	0.15	-0.23	-1.29	-1.38	0	0	0	0	0	0
8/28/2024 21:55	43202	MVIL_T2	33	60	27	0.24	0.77	0.53	-0.51	-0.49	0	0	0	0	0	0
8/28/2024 21:55	45501	DERR_T2	2	2	0	0.6	0.95	0.35	0.67	0.35	4	4	0	3600	3600	0
8/28/2024 21:55	50201	HARR_T3	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/28/2024 21:55	44802	EDAN_T2	0	0	0	0	0	0	-1.53	-1.56	0	0	0	0	0	0
8/28/2024 21:55	50107	HARR_T3	1	1	0	7.5	7.2	-0.3	0	0	0	0	0	0	0	0
8/28/2024 21:55	46206	DANV_T2	14	2	-12	0.58	0.9	0.32	0	0	0	0	0	0	0	0
8/28/2024 21:55	43201	MVIL_T2	0	0	0	0	0	0	-0.12	-0.17	0	0	0	0	0	0
8/28/2024 21:55	21501	CEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/28/2024 21:55	50105	HARR_T3	8	14	6	6.15	4.89	-1.26	0	0	0	0	0	0	0	0
8/28/2024 21:55	46203	DANV_T2	7	7	0	1.3	1.47	0.17	-1.06	-1.09	0	0	0	0	0	0
8/28/2024 21:55	43401	BENT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/28/2024 21:55	44203	POIN_T2	3	2	-1	0.9	0.55	-0.35	0.14	0.06	2	2	0	2100	2100	0
8/28/2024 21:55	58402	MORO_T1	0	0	0	0	0	0	-0.61	-0.53	2	2	0	1500	1500	0
8/28/2024 21:55	42701	AUGU_T1	1	4	3	0.2	0	-0.2	0	0	2	2	0	1800	1800	0
8/28/2024 21:55	44801	EDAN_T2	18	73	55	0.25	0.38	0.13	-1.28	-1.3	0	0	0	0	0	0
8/28/2024 21:55	56501	ROCK_T2	2	0	-2	0.1	0	-0.1	-0.43	-0.48	0	0	0	0	0	0
8/28/2024 21:55	47002	HUGH_T2	3	18	15	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
8/28/2024 21:55	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/28/2024 21:55	59301	MCAL_T1	6	2	-4	0.25	0.55	0.3	-1.09	-1.07	0	0	0	0	0	0
8/28/2024 21:55	43402	BENT_T1	0	0	0	0	0	0	-0.45	-0.52	1	1	0	600	600	0
8/28/2024 21:56	55001	NEWP_T1	0	0	0	0	0	0	-0.34	-0.38	1	1	0	600	600	0
8/28/2024 21:56	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/28/2024 21:56	46203	DANV_T2	7	7	0	1.3	1.47	0.17	-1.06	-1.09	0	0	0	0	0	0
8/28/2024 21:56	55002	NEWP_T1	3	3	0	0.53	0.63	0.1	0	0	0	0	0	0	0	0
8/28/2024 21:56	47401	PENS_T1	1	0	-1	0.4	0	-0.4	0.75	0.67	0	0	0	0	0	0
8/28/2024 21:56	44203	POIN_T2	3	2	-1	0.9	0.55	-0.35	0.14	0.06	2	2	0	2100	2100	0
8/28/2024 21:56	42902	MIDD_T2	1	0	-1	0.1	0	-0.1	-0.55	-0.39	1	1	0	600	600	0
8/28/2024 21:56	47101	MARL_T1	33	57	24	1.13	0.97	-0.16	-0.23	-0.24	0	0	0	0	0	0
8/28/2024 21:56	41901	REED_T1	9	9	0	0.98	1	0.02	0	0	0	0	0	0	0	0
8/28/2024 21:56	53601	DALM_T2	1	1	0	0.1	0.3	0.2	0.13	0.12	1	1	0	600	600	0
8/28/2024 21:56	46206	DANV_T2	14	2	-12	0.58	0.9	0.32	1.85	1.41	2	2	0	2100	2100	0
8/28/2024 21:56	41902	REED_T1	5	2	-3	0.4	0	-0.4	0.6	0.59	1	1	0	900	900	0
8/28/2024 21:57	42902	MIDD_T2	1	0	-1	0.1	0	-0.1	-0.55	-0.39	1	1	0	600	600	0
8/28/2024 21:57	44203	POIN_T2	3	2	-1	0.9	0.55	-0.35	0.14	0.06	2	2	0	2100	2100	0
8/28/2024 21:57	45302	WBER_T2	0	0	0	0	0	0	1.27	1.21	0	0	0	0	0	0
8/28/2024 21:57	46901	MNTG_T2	0	0	0	0	0	0	0.85	0.51	1	1	0	1200	1200	0
8/28/2024 21:57	42801	SELI_T1	0	0	0	0	0	0	-0.36	-0.53	1	1	0	1200	1200	0
8/28/2024 21:57	43202	MVIL_T2	33	60	27	0.24	0.77	0.53	-0.51	-0.49	0	0	0	0	0	0
8/28/2024 21:58	40901	JESH_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
8/28/2024 21:58	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/28/2024 21:58	43202	MVIL_T2	33	60	27	0.24	0.77	0.53	-0.51	-0.49	0	0	0	0	0	0
8/28/2024 21:58	40902	JESH_T1	0	0	0	0	0	0	-0.7	-0.15	1	0	-1	600	0	-600
8/28/2024 21:58	55001	NEWP_T1	0	0	0	0	0	0	-0.34	-0.38	1	1	0	600	600	0
8/28/2024 21:58	46206	DANV_T2	14	2	-12	0.58	0.9	0.32	1.85	1.41	2	2	0	2100	2100	0
8/28/2024 21:58	44202	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:58	44203	POIN_T2	3	2	-1	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
8/28/2024 21:58	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:58	42802	SELI_T1	0	0	0	0	0	0	-0.94	-0.97	1	1	0	900	900	0
8/28/2024 21:58	53502	EVIL_T2	0	0	0	0	0	0	-0.82	-0.79	2	2	0	1500	1500	0
8/28/2024 21:58	55002	NEWP_T1	3	3	0	0.53	0.63	0.1	0	0	0	0	0	0	0	0
8/28/2024 21:58	46203	DANV_T2	7	7	0	1.3	1.47	0.17	-1.06	-1.09	0	0	0	0	0	0
8/28/2024 21:58	53501	EVIL_T2	1	6	5	1.1	0.5	-0.6	-0.01	-0.01	4	4	0	2400	2400	0
8/28/2024 21:58	47401	PENS_T1	1	0	-1	0.4	0	-0.4	0.75	0.67	0	0	0	0	0	0
8/28/2024 21:58	58401	MORO_T1	0	1	1	0	0	0	-1.44	-1.44	1	1	0	600	600	0
8/28/2024 21:58	59301	MCAL_T1	6	2	-4	0.25	0.55	0.3	-1.09	-1.07	0	0	0	0	0	0
8/28/2024 21:59	43402	BENT_T1	0	0	0	0	0	0	-0.45	-0.52	1	1	0	600	600	0
8/28/2024 21:59	52401	GRPA_T2	0	1	1	0	0.1	0.1	-0.17	-0.2	0	0	0	0	0	0
8/28/2024 21:59	53502	EVIL_T2	0	0	0	0	0	0	-0.82	-0.79	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/28/2024 21:59	64305	LINC_T1	0	1	1	0	0	0	0.04	-0.08	0	0	0	0	0	0
8/28/2024 21:59	53501	EVIL_T2	1	6	5	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
8/28/2024 21:59	43105	SMIL_T2	1	3	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
8/28/2024 21:59	46203	DANV_T2	7	7	0	1.3	1.47	0.17	-1.06	-1.09	0	0	0	0	0	0
8/28/2024 21:59	67103	SPRI_T1	0	0	0	0	0	0	-0.5	-0.54	0	0	0	0	0	0
8/28/2024 21:59	45501	DERR_T2	2	2	0	0.6	0.95	0.35	0.67	0.35	4	4	0	3600	3600	0
8/28/2024 21:59	49803	UNIV_T1	1	1	0	5.8	5.4	-0.4	-1.67	-1.78	0	0	0	0	0	0
8/28/2024 21:59	43401	BENT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/28/2024 21:59	43103	SMIL_T2	0	2	2	0	0.2	0.2	-1.62	-1.7	0	0	0	0	0	0
8/28/2024 21:59	52402	GRPA_T2	5	4	-1	0.52	0.33	-0.19	-0.49	-0.55	0	0	0	0	0	0
8/28/2024 21:59	47401	PENS_T1	1	0	-1	0.4	0	-0.4	0.75	0.67	0	0	0	0	0	0
8/28/2024 21:59	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/28/2024 21:59	59101	WALK_T2	0	0	0	0	0	0	0.44	0.28	6	6	0	3600	3600	0
8/28/2024 21:59	43102	SMIL_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
8/28/2024 21:59	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 21:59	53802	MBRG_T2	0	0	0	0	0	0	1.24	0.05	0	0	0	0	0	0
8/28/2024 21:59	46206	DANV_T2	14	2	-12	0.58	0.9	0.32	0	0	0	0	0	0	0	0
8/28/2024 22:00	42903	MIDD_T2	0	0	0	0	0	0	-0.93	-0.95	1	1	0	1200	1200	0
8/28/2024 22:00	44202	POIN_T2	0	0	0	0	0	0	-0.86	-0.35	2	1	-1	1800	1200	-600
8/28/2024 22:00	52101	MEIS_T1	2	2	0	1.05	1.45	0.4	0	0	0	0	0	0	0	0
8/28/2024 22:00	40901	JESH_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/28/2024 22:00	44301	BEAV_T2	6	1	-5	0.55	0	-0.55	0	0	0	0	0	0	0	0
8/28/2024 22:00	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
8/28/2024 22:00	44203	POIN_T2	2	2	0	0.55	0.25	-0.3	0	0	0	0	0	0	0	0
8/28/2024 22:00	58402	MORO_T1	0	0	0	0	0	0	-0.61	-0.53	2	2	0	1500	1500	0
8/28/2024 22:00	49803	UNIV_T1	1	1	0	5.9	5.2	-0.7	0	0	0	0	0	0	0	0
8/28/2024 22:00	46206	DANV_T2	2	1	-1	0.85	0.9	0.05	1.85	1.41	2	2	0	2100	2100	0
8/28/2024 22:00	49804	UNIV_T1	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
8/28/2024 22:00	42701	AUGU_T1	0	5	5	0	0.25	0.25	0	0	2	2	0	1800	1800	0
8/28/2024 22:00	42902	MIDD_T2	0	0	0	0	0	0	-0.55	-0.39	1	1	0	600	600	0
8/28/2024 22:00	59301	MCAL_T1	2	0	-2	0.55	0	-0.55	-1.09	-1.07	0	0	0	0	0	0
8/28/2024 22:00	47401	PENS_T1	0	0	0	0	0	0	1.5	1.35	0	0	0	0	0	0
8/28/2024 22:00	42802	SELI_T1	0	0	0	0	0	0	-0.94	-0.97	1	1	0	900	900	0
8/28/2024 22:00	53501	EVIL_T2	6	2	-4	0.28	0.2	-0.08	-0.01	-0.01	2	2	0	1200	1200	0
8/28/2024 22:00	46203	DANV_T2	7	1	-6	1.47	6	4.53	-1.06	-1.09	0	0	0	0	0	0
8/28/2024 22:00	40101	HUNT_T2	15	12	-3	0.33	0.38	0.05	-1.29	-1.38	0	0	0	0	0	0
8/28/2024 22:00	40902	JESH_T1	0	0	0	0	0	0	-0.7	-0.15	1	0	-1	600	0	-600
8/28/2024 22:00	58401	MORO_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/28/2024 22:01	41002	LAUR_T2	1	27	26	1.2	0.28	-0.92	-0.02	-0.05	0	0	0	0	0	0
8/28/2024 22:01	41001	LAUR_T2	0	62	62	0	0.34	0.34	0	0	0	0	0	0	0	0
8/28/2024 22:01	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 22:02	46206	DANV_T2	2	1	-1	0.85	0.9	0.05	0	0	0	0	0	0	0	0
8/28/2024 22:02	60101	COCA_T1	0	0	0	0	0	0	-0.31	-0.38	1	1	0	1200	1200	0
8/28/2024 22:02	46203	DANV_T2	7	1	-6	1.47	6	4.53	-1.06	-1.09	0	0	0	0	0	0
8/28/2024 22:04	10801	CHIH_T1	0	0	0	0	0	0	0	0	3	3	0	2100	2100	0
8/28/2024 22:08	42902	MIDD_T2	0	0	0	0	0	0	-0.77	-1.15	2	2	0	1200	1200	0
8/28/2024 22:15	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2024 22:37	56501	ROCK_T2	0	2	2	0	0.1	0.1	-0.56	-0.68	0	0	0	0	0	0
8/28/2024 23:17	11405	FARM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 1:03	58401	MORO_T1	0	30	30	0	1.12	1.12	-1.74	-1.75	1	1	0	600	600	0
8/29/2024 1:03	58402	MORO_T1	0	128	128	0	0.73	0.73	0	0	0	0	0	0	0	0
8/29/2024 1:07	65904	SAKR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/29/2024 1:07	65901	SAKR_T2	1	1	0	6.9	7.2	0.3	-0.24	-0.31	1	1	0	600	600	0
8/29/2024 1:07	65903	SAKR_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/29/2024 1:07	65902	SAKR_T2	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
8/29/2024 3:00	46504	LOHA_T1	2	2	0	1.25	1.3	0.05	0	0	0	0	0	0	0	0
8/29/2024 3:00	46501	LOHA_T1	0	1	1	0	1.9	1.9	0.41	0.4	1	1	0	1200	1200	0
8/29/2024 7:27	62102	ELAN_T1	0	0	0	0	0	0	1.03	1.04	0	0	0	0	0	0
8/29/2024 7:27	11903	ETEX_T1	0	0	0	0	0	0	0.78	0.82	0	0	0	0	0	0
8/29/2024 7:30	62102	ELAN_T1	0	0	0	0	0	0	1.03	1.04	0	0	0	0	0	0
8/29/2024 7:31	62102	ELAN_T1	0	0	0	0	0	0	1.03	1.04	0	0	0	0	0	0
8/29/2024 7:33	53501	EVIL_T2	2	3	1	0.5	0.77	0.27	-0.01	-0.01	2	2	0	1200	1200	0
8/29/2024 7:36	53501	EVIL_T2	2	3	1	0.5	0.77	0.27	-0.01	-0.01	2	2	0	1200	1200	0
8/29/2024 7:47	12006	HATF_T1	0	0	0	0	0	0	0.45	0.51	2	2	0	2400	2400	0
8/29/2024 7:48	40101	HUNT_T2	0	1	1	0	0	0	-0.76	-0.71	0	0	0	0	0	0
8/29/2024 7:49	15603	NSTR_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
8/29/2024 7:52	55101	WERT_T1	0	0	0	0	0	0	-1.61	-1.59	4	4	0	3300	3300	0
8/29/2024 7:53	55101	WERT_T1	0	0	0	0	0	0	-1.61	-1.59	4	4	0	3300	3300	0
8/29/2024 7:55	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 7:57	55101	WERT_T1	0	0	0	0	0	0	-1.61	-1.59	4	4	0	3300	3300	0
8/29/2024 8:03	55002	NEWP_T1	5	5	0	0.58	0.68	0.1	-0.08	-0.1	0	0	0	0	0	0
8/29/2024 8:03	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 8:11	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/29/2024 8:12	20401	ASHF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
8/29/2024 8:12	20403	ASHF_T2	0	0	0	0	0	0	0.68	0.78	0	0	0	0	0	0
8/29/2024 8:13	55002	NEWP_T1	5	5	0	0.58	0.68	0.1	0	0	0	0	0	0	0	0
8/29/2024 8:13	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.59	-0.58	1	1	0	600	600	0
8/29/2024 8:14	22002	BOHE_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
8/29/2024 8:14	22003	BOHE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 8:20	67502	WEWI_T2	0	0	0	0	0	0	-0.76	-0.72	1	1	0	900	900	0
8/29/2024 8:20	47502	NECO_T1	0	0	0	0	0	0	1.31	1.32	0	0	0	0	0	0
8/29/2024 8:20	13303	ORVI_T1	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
8/29/2024 8:20	67503	WEWI_T2	1	1	0	7.5	7.1	-0.4	0	0	0	0	0	0	0	0
8/29/2024 8:22	50105	HARR_T3	6	6	0	7.85	7.77	-0.08	0	0	0	0	0	0	0	0
8/29/2024 8:22	50107	HARR_T3	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
8/29/2024 8:22	50201	HARR_T3	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/29/2024 8:24	22002	BOHE_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
8/29/2024 8:24	22003	BOHE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 8:25	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 8:26	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 8:29	53601	DALM_T2	1	1	0	0.3	0.8	0.5	-0.65	-0.78	2	2	0	1500	1500	0
8/29/2024 8:30	22003	BOHE_T1	1	0	-1	0.2	0	-0.2	-0.2	-1.1	0	0	0	0	0	0
8/29/2024 8:31	46102	MACI_T1	0	0	0	0	0	0	1.08	1.08	0	0	0	0	0	0
8/29/2024 8:40	16004	DORN_T1	0	0	0	0	0	0	-0.27	-0.41	1	1	0	1200	1200	0
8/29/2024 8:40	67901	WNHO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/29/2024 8:40	67902	WNHO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 8:42	11407	FARM_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
8/29/2024 8:43	24801	VALM_T1	0	0	0	0	0	0	-0.2	-0.17	0	0	0	0	0	0
8/29/2024 8:44	53501	EVIL_T2	2	1	-1	0.2	0.6	0.4	-0.02	-0.02	6	6	0	3600	3600	0
8/29/2024 8:45	45502	DERR_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
8/29/2024 8:45	53501	EVIL_T2	1	1	0	0.3	1.1	0.8	-0.01	-0.01	2	2	0	1200	1200	0
8/29/2024 8:45	45501	DERR_T2	1	1	0	0.2	0.3	0.1	1.65	1.66	4	4	0	3600	3600	0
8/29/2024 8:46	53501	EVIL_T2	1	1	0	0.3	1.1	0.8	-0.01	-0.01	2	2	0	1200	1200	0
8/29/2024 8:46	51301	WIND_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 8:46	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 8:46	64201	KINZ_T1	0	6	6	0	0	0	-0.21	-0.28	8	8	0	4200	4200	0
8/29/2024 8:46	64202	KINZ_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
8/29/2024 8:46	64203	KINZ_T1	2	4	2	1.3	0.7	-0.6	0	0	0	0	0	0	0	0
8/29/2024 8:46	64204	KINZ_T1	1	2	1	0.6	1	0.4	0	0	0	0	0	0	0	0
8/29/2024 8:49	67503	WEWI_T2	1	1	0	7.1	6.6	-0.5	0.36	0.37	0	0	0	0	0	0
8/29/2024 8:50	14201	EALL_T1	0	0	0	0	0	0	0.24	0.3	0	0	0	0	0	0
8/29/2024 8:54	66703	STRA_T1	0	0	0	0	0	0	-0.19	-0.12	0	0	0	0	0	0
8/29/2024 8:56	29402	BELT_T1	1	1	0	7.2	7.6	0.4	0	0	0	0	0	0	0	0
8/29/2024 8:56	29401	BELT_T1	0	14	14	0	0.11	0.11	0	0	1	1	0	900	900	0
8/29/2024 8:57	55101	WERT_T1	11	0	-11	0.57	0	-0.57	-2.02	-1.99	4	4	0	3300	3300	0
8/29/2024 8:58	23201	HIRU_T2	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
8/29/2024 8:58	23203	HIRU_T2	0	1	1	0	0.1	0.1	0.18	0.18	0	0	0	0	0	0
8/29/2024 8:59	24105	EHAZ_T1	4	5	1	6.25	6.13	-0.12	0	0	0	0	0	0	0	0
8/29/2024 8:59	24104	EHAZ_T1	0	13	13	0	0.11	0.11	-1.9	-1.94	1	1	0	1200	1200	0
8/29/2024 8:59	24101	EHAZ_T1	1	9	8	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/29/2024 9:01	23203	HIRU_T2	0	1	1	0	0.1	0.1	0.18	0.18	0	0	0	0	0	0
8/29/2024 9:01	23201	HIRU_T2	5	5	0	0.12	0.14	0.02	0	0	0	0	0	0	0	0
8/29/2024 9:01	61801	EELI_T2	1	0	-1	0.4	0	-0.4	-0.21	-0.15	1	1	0	600	600	0
8/29/2024 9:02	56501	ROCK_T2	2	5	3	0.6	0.5	-0.1	-1.59	-1.39	0	0	0	0	0	0
8/29/2024 9:04	43202	MVIL_T2	63	61	-2	0.62	0.49	-0.13	-0.43	-0.38	0	0	0	0	0	0
8/29/2024 9:07	66504	SMAN_T2	0	0	0	0	0	0	-1.37	-1.11	2	2	0	2400	2400	0
8/29/2024 9:07	60502	NMAN_T2	0	0	0	0	0	0	0.51	0.66	0	0	0	0	0	0
8/29/2024 9:08	66504	SMAN_T2	0	0	0	0	0	0	-0.68	-0.56	1	1	0	1200	1200	0
8/29/2024 9:08	59101	WALK_T2	1	2	1	0.5	0.8	0.3	1.89	1.13	1	2	1	600	1200	600
8/29/2024 9:09	59101	WALK_T2	1	2	1	0.5	0.8	0.3	3.79	2.26	2	4	2	1200	2400	1200
8/29/2024 9:15	40802	EXCH_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
8/29/2024 9:15	40801	EXCH_T2	3	3	0	0.23	0.2	-0.03	-0.09	-0.03	1	1	0	1200	1200	0
8/29/2024 9:16	40802	EXCH_T2	1	1	0	0.8	0.5	-0.3	-0.02	0.33	0	0	0	0	0	0
8/29/2024 9:16	40801	EXCH_T2	3	3	0	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
8/29/2024 9:17	40802	EXCH_T2	1	1	0	0.8	0.5	-0.3	-0.02	0.33	0	0	0	0	0	0
8/29/2024 9:17	40801	EXCH_T2	3	3	0	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
8/29/2024 9:18	52004	LING_T2	2	2	0	5.3	5.1	-0.2	0.73	0.73	0	0	0	0	0	0
8/29/2024 9:18	63501	HEID_TBK1-2	49	49	0	1.52	1.58	0.06	0.81	0.75	1	1	0	900	900	0
8/29/2024 9:21	64101	REFR_T1	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
8/29/2024 9:23	51306	WIND_T2	0	0	0	0	0	0	-0.78	-0.75	0	0	0	0	0	0
8/29/2024 9:25	54201	PENN_T1	3	4	1	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
8/29/2024 9:25	54203	PENN_T1	5	5	0	0.52	0.6	0.08	0.21	0.29	1	1	0	600	600	0
8/29/2024 9:26	17901	BART_T1	0	0	0	0	0	0	0.53	0.43	1	1	0	1200	1200	0
8/29/2024 9:26	10705	CATA_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
8/29/2024 9:27	17901	BART_T1	0	0	0	0	0	0	0.53	0.43	1	1	0	1200	1200	0
8/29/2024 9:30	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
8/29/2024 9:30	15702	TANN_T2	0	0	0	0	0	0	-0.17	-0.12	0	0	0	0	0	0
8/29/2024 9:42	67605	WARW_T1	0	0	0	0	0	0	-0.92	-0.88	0	0	0	0	0	0
8/29/2024 9:43	67605	WARW_T1	0	0	0	0	0	0	-0.92	-0.88	0	0	0	0	0	0
8/29/2024 9:48	21901	HUMB_T1	0	0	0	0	0	0	-2.03	-1.98	0	0	0	0	0	0
8/29/2024 9:48	64302	LINC_T2	0	0	0	0	0	0	1.59	1.64	0	0	0	0	0	0
8/29/2024 9:48	46102	MACI_T1	0	0	0	0	0	0	1.07	1.07	0	0	0	0	0	0
8/29/2024 9:52	57401	SPAN_T1	2	2	0	0.4	0.4	0	-1.39	-1.38	2	2	0	1200	1200	0
8/29/2024 9:52	43106	SMIL_T2	0	0	0	0	0	0	-0.38	-0.36	2	2	0	2400	2400	0
8/29/2024 9:52	14801	TREI_T2	1	0	-1	0.3	0	-0.3	0.72	0.72	0	0	0	0	0	0
8/29/2024 9:52	15203	SFAR_T2	0	0	0	0	0	0	-0.84	-0.82	0	0	0	0	0	0
8/29/2024 9:53	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/29/2024 9:53	57401	SPAN_T1	2	2	0	0.4	0.4	0	-0.69	-0.69	1	1	0	600	600	0
8/29/2024 9:53	64201	KINZ_T1	0	5	5	0	0.33	0.33	0	0	0	0	0	0	0	0
8/29/2024 9:53	46302	ROHR_T1	5	9	4	1.5	1	-0.5	0	0	0	0	0	0	0	0
8/29/2024 9:53	46301	ROHR_T1	141	198	57	0.37	0.44	0.07	0.35	0.34	0	0	0	0	0	0
8/29/2024 9:53	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 9:53	64203	KINZ_T1	2	4	2	1.3	1.6	0.3	0.61	0.51	3	3	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/29/2024 9:53	64204	KINZ_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/29/2024 9:54	66505	SMAN_T2	0	0	0	0	0	0	0.43	0.37	4	4	0	2300	2300	0
8/29/2024 9:54	55101	WERT_T1	1	10	9	0.3	0.46	0.16	-1.84	-1.65	4	4	0	3300	3300	0
8/29/2024 9:54	57401	SPAN_T1	2	2	0	0.4	0.4	0	-0.69	-0.69	1	1	0	600	600	0
8/29/2024 9:54	44301	BEAV_T2	1	4	3	2.8	1.9	-0.9	0	0	0	0	0	0	0	0
8/29/2024 9:55	57401	SPAN_T1	2	2	0	0.4	0.4	0	-0.69	-0.69	1	1	0	600	600	0
8/29/2024 9:55	28102	TWLA_T2	0	1	1	0	0.1	0.1	0.24	0.25	0	0	0	0	0	0
8/29/2024 9:56	64203	KINZ_T1	2	4	2	1.3	1.6	0.3	0	0	0	0	0	0	0	0
8/29/2024 9:56	60101	COCA_T1	0	1	1	0	0.5	0.5	-0.29	-0.25	1	1	0	1200	1200	0
8/29/2024 9:56	57401	SPAN_T1	2	2	0	0.4	0.4	0	-0.69	-0.69	1	1	0	600	600	0
8/29/2024 9:56	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/29/2024 9:56	64204	KINZ_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/29/2024 9:56	64201	KINZ_T1	0	5	5	0	0.33	0.33	0	0.17	4	4	0	2100	2100	0
8/29/2024 9:57	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 9:57	60101	COCA_T1	0	1	1	0	0.5	0.5	-0.29	-0.25	1	1	0	1200	1200	0
8/29/2024 9:57	40502	CRES_T2	0	2	2	0	0.15	0.15	-0.7	-0.69	0	0	0	0	0	0
8/29/2024 9:58	10705	CATA_T2	0	0	0	0	0	0	-0.88	-0.94	0	0	0	0	0	0
8/29/2024 9:58	40504	CRES_T1	0	0	0	0	0	0	-1.39	-1.35	0	0	0	0	0	0
8/29/2024 9:58	10702	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 9:58	40503	CRES_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 9:58	55101	WERT_T1	1	10	9	0.3	0.46	0.16	-1.84	-1.65	4	4	0	3300	3300	0
8/29/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	-0.08	-0.55	0	0	0	0	0	0
8/29/2024 10:00	40901	JESH_T1	1	1	0	2.1	1.5	-0.6	0	0	0	0	0	0	0	0
8/29/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.76	0.82	0	0	0	0	0	0
8/29/2024 10:00	40504	CRES_T1	0	0	0	0	0	0	-1.39	-1.35	0	0	0	0	0	0
8/29/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
8/29/2024 10:00	47502	NECO_T1	0	0	0	0	0	0	1.42	1.28	0	0	0	0	0	0
8/29/2024 10:00	52403	GRPA_T2	0	0	0	0	0	0	-0.33	-0.3	0	0	0	0	0	0
8/29/2024 10:00	52404	GRPA_T2	0	0	0	0	0	0	0.97	1	0	0	0	0	0	0
8/29/2024 10:00	52402	GRPA_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/29/2024 10:00	48302	ORWI_T2	2	2	0	0.55	0.4	-0.15	-0.2	-0.2	0	0	0	0	0	0
8/29/2024 10:00	15603	NSTR_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
8/29/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.24	-0.16	1	1	0	600	600	0
8/29/2024 10:00	28102	TWLA_T2	1	0	-1	0.1	0	-0.1	0.24	0.25	0	0	0	0	0	0
8/29/2024 10:00	67503	WEWI_T2	1	1	0	5.8	5.5	-0.3	0.5	0.5	0	0	0	0	0	0
8/29/2024 10:07	57103	SPHI_T2	0	0	0	0	0	0	-0.39	-0.4	1	1	0	600	600	0
8/29/2024 10:07	57106	SPHI_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
8/29/2024 10:07	41901	REED_T1	9	2	-7	0.32	0.2	-0.12	0	0	0	0	0	0	0	0
8/29/2024 10:07	41902	REED_T1	0	0	0	0	0	0	0.54	0.62	1	1	0	900	900	0
8/29/2024 10:09	55101	WERT_T1	8	10	2	0.53	0.33	-0.2	-4.96	-5.13	12	12	0	9900	9900	0
8/29/2024 10:09	29402	BELT_T1	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
8/29/2024 10:09	55002	NEWP_T1	3	3	0	0.57	0.63	0.06	0	0	0	0	0	0	0	0
8/29/2024 10:09	67605	WARW_T1	0	1	1	0	0.1	0.1	-1.87	-1.71	0	0	0	0	0	0
8/29/2024 10:09	29401	BELT_T1	2	1	-1	0.1	0	-0.1	0	0	1	1	0	900	900	0
8/29/2024 10:09	55001	NEWP_T1	0	0	0	0	0	0	-0.35	-0.32	1	1	0	600	600	0
8/29/2024 10:09	44301	BEAV_T2	3	1	-2	0.27	1.2	0.93	0	0	0	0	0	0	0	0
8/29/2024 10:10	20401	ASHF_T2	2	2	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
8/29/2024 10:10	20403	ASHF_T2	0	6	6	0	0.35	0.35	1.77	1.87	0	0	0	0	0	0
8/29/2024 10:10	29402	BELT_T1	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
8/29/2024 10:10	60502	NMAN_T2	0	0	0	0	0	0	0.77	0.79	0	0	0	0	0	0
8/29/2024 10:10	55101	WERT_T1	8	10	2	0.53	0.33	-0.2	-3.3	-3.42	8	8	0	6600	6600	0
8/29/2024 10:10	29401	BELT_T1	2	1	-1	0.1	0	-0.1	0	0	1	1	0	900	900	0
8/29/2024 10:12	60101	COCA_T1	0	1	1	0	0.5	0.5	-0.51	-0.46	2	2	0	2400	2400	0
8/29/2024 10:13	60101	COCA_T1	0	1	1	0	0.5	0.5	-0.25	-0.23	1	1	0	1200	1200	0
8/29/2024 10:13	53501	EVIL_T2	2	2	0	0.5	0.5	0	-0.01	-0.01	3	3	0	1400	1400	0
8/29/2024 10:14	67901	WHHO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 10:14	60101	COCA_T1	0	1	1	0	0.5	0.5	-0.25	-0.23	1	1	0	1200	1200	0
8/29/2024 10:14	53502	EVIL_T2	0	0	0	0	0	0	0.18	-0.58	2	3	1	1200	2100	900
8/29/2024 10:14	53501	EVIL_T2	2	2	0	0.5	0.5	0	-0.02	-0.02	9	9	0	4200	4200	0
8/29/2024 10:14	55101	WERT_T1	8	10	2	0.53	0.33	-0.2	-1.65	-1.71	4	4	0	3300	3300	0
8/29/2024 10:15	45501	DERR_T2	1	3	2	0.8	0.9	0.1	1.81	1.8	4	4	0	3600	3600	0
8/29/2024 10:15	45502	DERR_T2	2	7	5	0.35	0.4	0.05	0	0	0	0	0	0	0	0
8/29/2024 10:15	44801	EDAN_T2	1	1	0	0.3	0.8	0.5	-1.24	-1.28	0	0	0	0	0	0
8/29/2024 10:15	49803	UNIV_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
8/29/2024 10:15	53501	EVIL_T2	2	3	1	0.35	0.65	0.3	-0.01	-0.01	3	3	0	1400	1400	0
8/29/2024 10:15	49804	UNIV_T1	0	0	0	0	0	0	0.62	0.65	0	0	0	0	0	0
8/29/2024 10:15	60101	COCA_T1	1	1	0	0.5	0.1	-0.4	-0.25	-0.23	1	1	0	1200	1200	0
8/29/2024 10:18	67503	WEWI_T2	1	1	0	5.4	5.5	0.1	0.5	0.51	0	0	0	0	0	0
8/29/2024 10:19	64204	KINZ_T1	1	3	2	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/29/2024 10:19	53501	EVIL_T2	2	3	1	0.35	0.65	0.3	-0.01	-0.01	6	6	0	2800	2800	0
8/29/2024 10:19	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/29/2024 10:19	64203	KINZ_T1	4	4	0	1.25	0.65	-0.6	0.51	0.67	3	3	0	2100	2100	0
8/29/2024 10:19	64201	KINZ_T1	4	1	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/29/2024 10:19	55002	NEWP_T1	2	4	2	0.9	0.33	-0.57	-0.02	-0.02	0	0	0	0	0	0
8/29/2024 10:20	65001	NEFF_T2	0	0	0	0	0	0	0.31	0.44	1	1	0	1200	1200	0
8/29/2024 10:20	40602	PIGR_T1	1	1	0	1	1.5	0.5	-0.46	-0.42	0	0	0	0	0	0
8/29/2024 10:20	25402	LAHA_T2	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
8/29/2024 10:20	64201	KINZ_T1	4	1	-3	0.3	0	-0.3	0.34	0.12	8	8	0	4200	4200	0
8/29/2024 10:20	56501	ROCK_T2	3	1	-2	0.43	1	0.57	-1.2	-1.14	0	0	0	0	0	0
8/29/2024 10:20	64203	KINZ_T1	4	4	0	1.25	0.65	-0.6	0	0	0	0	0	0	0	0
8/29/2024 10:20	25503	MADI_T1	7	6	-1	0.16	0.17	0.01	-0.65	-0.72	0	0	0	0	0	0
8/29/2024 10:20	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/29/2024 10:20	64204	KINZ_T1	1	3	2	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/29/2024 10:21	57401	SPAN_T1	2	3	1	0.2	1.1	0.9	-0.69	-0.64	1	1	0	600	600	0
8/29/2024 10:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 10:22	64201	KINZ_T1	4	1	-3	0.3	0	-0.3	0.06	-1.08	4	5	1	2100	3300	1200
8/29/2024 10:22	57401	SPAN_T1	2	3	1	0.2	1.1	0.9	-0.64	-0.63	1	1	0	600	600	0
8/29/2024 10:22	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/29/2024 10:22	64203	KINZ_T1	4	4	0	1.25	0.65	-0.6	0	0	0	0	0	0	0	0
8/29/2024 10:22	64204	KINZ_T1	1	3	2	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/29/2024 10:23	57401	SPAN_T1	2	3	1	0.2	1.1	0.9	-0.64	-0.63	1	1	0	600	600	0
8/29/2024 10:24	67603	WARW_T1	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
8/29/2024 10:24	15203	SFAR_T2	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
8/29/2024 10:24	67605	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 10:25	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.85	-0.84	0	0	0	0	0	0
8/29/2024 10:25	66505	SMAN_T2	0	0	0	0	0	0	0.33	0.37	4	4	0	2300	2300	0
8/29/2024 10:26	57401	SPAN_T1	2	3	1	0.2	1.1	0.9	-0.64	-0.63	1	1	0	600	600	0
8/29/2024 10:26	21501	CEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/29/2024 10:27	59101	WALK_T2	1	1	0	4	2.3	-1.7	1.54	1.4	1	1	0	600	600	0
8/29/2024 10:28	59101	WALK_T2	1	1	0	4	2.3	-1.7	3.07	2.79	2	2	0	1200	1200	0
8/29/2024 10:29	63501	HEID_TBK1-2	49	55	6	2.07	2.14	0.07	0.84	0.89	1	1	0	900	900	0
8/29/2024 10:29	45502	DERR_T2	2	7	5	0.35	0.4	0.05	0.1	0.12	1	1	0	300	300	0
8/29/2024 10:29	45501	DERR_T2	1	3	2	0.8	0.9	0.1	0	0	0	0	0	0	0	0
8/29/2024 10:30	45802	HEGI_T2	1	14	13	1	0.32	-0.68	0.43	0.57	2	2	0	1200	1200	0
8/29/2024 10:31	54506	ENOL_T2	0	0	0	0	0	0	0.04	0.18	1	1	0	600	600	0
8/29/2024 10:31	63501	HEID_TBK1-2	49	55	6	2.14	2.18	0.04	0.84	0.89	1	1	0	900	900	0
8/29/2024 10:31	45802	HEGI_T2	1	14	13	1	0.32	-0.68	0.43	0.57	2	2	0	1200	1200	0
8/29/2024 10:32	12605	MACA_T1	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
8/29/2024 10:32	63501	HEID_TBK1-2	49	55	6	2.14	2.18	0.04	0.84	0.89	1	1	0	900	900	0
8/29/2024 10:33	15702	TANN_T2	0	0	0	0	0	0	-0.16	-0.06	0	0	0	0	0	0
8/29/2024 10:33	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
8/29/2024 10:34	20601	GRWO_T2	117	172	55	0.72	0.86	0.14	1.27	1.25	0	0	0	0	0	0
8/29/2024 10:35	12605	MACA_T1	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
8/29/2024 10:36	66504	SMAN_T2	0	0	0	0	0	0	-0.91	-0.84	2	2	0	2400	2400	0
8/29/2024 10:37	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 10:37	66504	SMAN_T2	0	0	0	0	0	0	-0.45	-0.42	1	1	0	1200	1200	0
8/29/2024 10:40	63403	HONY_T2	0	0	0	0	0	0	-0.73	-1.26	1	1	0	600	600	0
8/29/2024 10:42	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 10:46	23202	HIRU_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
8/29/2024 10:46	40101	HUNT_T2	17	80	63	0.41	0.41	0	-0.64	-0.57	0	0	0	0	0	0
8/29/2024 10:46	44801	EDAN_T2	1	69	68	1.3	0.43	-0.87	-1.28	-1.29	0	0	0	0	0	0
8/29/2024 10:47	40101	HUNT_T2	17	80	63	0.41	0.41	0	-0.64	-0.57	0	0	0	0	0	0
8/29/2024 10:50	52004	LING_T2	2	2	0	4.6	4.35	-0.25	0.49	0.51	0	0	0	0	0	0
8/29/2024 10:50	53501	EVIL_T2	3	11	8	0.47	0.37	-0.1	-0.02	-0.02	9	9	0	4200	4200	0
8/29/2024 10:50	55001	NEWP_T1	0	0	0	0	0	0	-0.64	-0.58	2	2	0	1200	1200	0
8/29/2024 10:50	55002	NEWP_T1	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0	0
8/29/2024 10:50	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 10:50	52002	LING_T2	0	13	13	0	0.22	0.22	0	0	0	0	0	0	0	0
8/29/2024 10:51	43103	SMIL_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
8/29/2024 10:51	43102	SMIL_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
8/29/2024 10:51	43104	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 10:51	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 10:51	43105	SMIL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
8/29/2024 10:51	43101	SMIL_T2	0	1	1	0	0.3	0.3	-0.49	-0.46	1	1	0	300	300	0
8/29/2024 10:52	55001	NEWP_T1	0	0	0	0	0	0	-0.29	-0.28	1	1	0	600	600	0
8/29/2024 10:52	53501	EVIL_T2	3	11	8	0.47	0.37	-0.1	-0.01	-0.01	3	3	0	1400	1400	0
8/29/2024 10:52	55002	NEWP_T1	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0	0
8/29/2024 10:52	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 10:53	66703	STRA_T1	0	0	0	0	0	0	0.05	0.27	0	0	0	0	0	0
8/29/2024 10:54	66703	STRA_T1	0	0	0	0	0	0	0.05	0.27	0	0	0	0	0	0
8/29/2024 10:54	61102	BERK_T5	0	0	0	0	0	0	0.83	0.85	1	1	0	300	300	0
8/29/2024 10:55	66703	STRA_T1	0	0	0	0	0	0	0.05	0.27	0	0	0	0	0	0
8/29/2024 10:56	43103	SMIL_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
8/29/2024 10:56	43102	SMIL_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
8/29/2024 10:56	66703	STRA_T1	0	0	0	0	0	0	0.11	0.55	0	0	0	0	0	0
8/29/2024 10:56	43108	SMIL_T2	0	1	1	0	0	0	-0.51	-0.51	1	1	0	1200	1200	0
8/29/2024 10:56	61102	BERK_T5	0	0	0	0	0	0	1.66	1.7	2	2	0	600	600	0
8/29/2024 10:56	43101	SMIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/29/2024 10:56	43104	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 10:56	43105	SMIL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
8/29/2024 10:57	66703	STRA_T1	0	0	0	0	0	0	0.05	0.27	0	0	0	0	0	0
8/29/2024 10:57	61102	BERK_T5	0	0	0	0	0	0	0.83	0.85	1	1	0	300	300	0
8/29/2024 10:59	44801	EDAN_T2	1	69	68	1.3	0.43	-0.87	-1.29	-1.2	0	0	0	0	0	0
8/29/2024 10:59	61102	BERK_T5	0	0	0	0	0	0	0.83	0.85	1	1	0	300	300	0
8/29/2024 11:01	57506	LAWN_T3	0	0	0	0	0	0	1.59	1.58	1	1	0	600	600	0
8/29/2024 11:02	42902	MIDD_T2	0	1	1	0	0.3	0.3	0.13	-0.2	1	1	0	600	600	0
8/29/2024 11:03	56501	ROCK_T2	1	1	0	1.7	1.3	-0.4	-0.51	-0.47	0	0	0	0	0	0
8/29/2024 11:04	43202	MVIL_T2	34	58	24	0.19	0.43	0.24	-0.35	-0.29	0	0	0	0	0	0
8/29/2024 11:05	43202	MVIL_T2	34	58	24	0.19	0.43	0.24	-0.35	-0.29	0	0	0	0	0	0
8/29/2024 11:05	42902	MIDD_T2	0	1	1	0	0.3	0.3	0.13	-0.2	1	1	0	600	600	0
8/29/2024 11:05	47401	PENS_T1	1	3	2	0.7	0.63	-0.07	0.17	0.31	0	0	0	0	0	0
8/29/2024 11:05	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 11:05	47403	PENS_T1	1	4	3	0.5	0.75	0.25	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/29/2024 11:05	12801	MICK_T1	0	0	0	0	0	0	-0.38	-0.4	1	1	0	600	600	0
8/29/2024 11:05	12807	MICK_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/29/2024 11:06	42902	MIDD_T2	0	1	1	0	0.3	0.3	-0.39	-0.78	2	2	0	1200	1200	0
8/29/2024 11:06	13302	ORVI_T2	0	0	0	0	0	0	0.91	0.88	0	0	0	0	0	0
8/29/2024 11:07	42902	MIDD_T2	0	1	1	0	0.3	0.3	-0.2	-0.39	1	1	0	600	600	0
8/29/2024 11:07	57403	SPAN_T1	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
8/29/2024 11:08	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 11:08	43202	MVIL_T2	34	58	24	0.19	0.43	0.24	-0.29	-0.31	0	0	0	0	0	0
8/29/2024 11:09	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 11:10	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 11:11	67602	WARW_T2	0	1	1	0	0	0	0.78	0.75	1	1	0	300	300	0
8/29/2024 11:11	57401	SPAN_T1	0	0	0	0	0	0	-0.59	-0.36	1	1	0	600	600	0
8/29/2024 11:11	61102	BERK_T5	0	0	0	0	0	0	1.7	1.59	2	2	0	600	600	0
8/29/2024 11:12	67602	WARW_T2	0	1	1	0	0	0	1.57	1.5	2	2	0	600	600	0
8/29/2024 11:12	53903	HALI_T2	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
8/29/2024 11:12	53902	HALI_T2	1	1	0	4.2	3.9	-0.3	-0.49	-0.48	0	0	0	0	0	0
8/29/2024 11:12	40802	EXCH_T2	0	1	1	0	0.2	0.2	-0.29	-0.18	0	0	0	0	0	0
8/29/2024 11:12	61102	BERK_T5	0	0	0	0	0	0	0.85	0.8	1	1	0	300	300	0
8/29/2024 11:12	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 11:13	44801	EDAN_T2	1	68	67	0.9	0.44	-0.46	-2.4	-2.27	0	0	0	0	0	0
8/29/2024 11:13	67602	WARW_T2	0	1	1	0	0	0	1.57	1.5	2	2	0	600	600	0
8/29/2024 11:13	61102	BERK_T5	0	0	0	0	0	0	0.85	0.8	1	1	0	300	300	0
8/29/2024 11:14	67602	WARW_T2	0	1	1	0	0	0	1.57	1.5	2	2	0	600	600	0
8/29/2024 11:14	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 11:14	61102	BERK_T5	0	0	0	0	0	0	0.85	0.8	1	1	0	300	300	0
8/29/2024 11:14	40802	EXCH_T2	0	1	1	0	0.2	0.2	-0.29	-0.18	0	0	0	0	0	0
8/29/2024 11:15	67602	WARW_T2	0	1	1	0	0.3	0.3	0.78	0.75	1	1	0	300	300	0
8/29/2024 11:17	40802	EXCH_T2	0	1	1	0	0.2	0.2	-0.58	-0.36	0	0	0	0	0	0
8/29/2024 11:17	63302	GREE_T1	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
8/29/2024 11:17	42001	MNVL_T2	13	5	-8	0.15	0.12	-0.03	0.29	0.33	0	0	0	0	0	0
8/29/2024 11:17	40801	EXCH_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/29/2024 11:17	42002	MNVL_T2	1	1	0	5	4.6	-0.4	0	0	0	0	0	0	0	0
8/29/2024 11:18	64902	MILL_T2	0	0	0	0	0	0	-0.45	-0.51	1	1	0	900	900	0
8/29/2024 11:18	64903	MILL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/29/2024 11:18	53501	EVIL_T2	11	9	-2	0.48	0.39	-0.09	0	0	0	0	0	0	0	0
8/29/2024 11:18	53502	EVIL_T2	0	0	0	0	0	0	-0.54	-0.6	3	3	0	2100	2100	0
8/29/2024 11:18	22602	KIMB_T1	0	0	0	0	0	0	0.37	0.41	0	0	0	0	0	0
8/29/2024 11:19	22701	MINO_T1	0	0	0	0	0	0	-0.58	-0.54	1	1	0	600	600	0
8/29/2024 11:20	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/29/2024 11:21	41901	REED_T1	5	3	-2	0.18	0.23	0.05	0	0	0	0	0	0	0	0
8/29/2024 11:21	41902	REED_T1	1	0	-1	0.4	0	-0.4	0.65	0.68	1	1	0	900	900	0
8/29/2024 11:22	64101	REFR_T1	0	10	10	0	0.1	0.1	0.81	0.89	0	0	0	0	0	0
8/29/2024 11:22	41901	REED_T1	5	3	-2	0.18	0.23	0.05	0	0	0	0	0	0	0	0
8/29/2024 11:22	41902	REED_T1	1	0	-1	0.4	0	-0.4	0.65	0.68	1	1	0	900	900	0
8/29/2024 11:23	47401	PENS_T1	1	3	2	0.9	0.67	-0.23	0.14	0.12	0	0	0	0	0	0
8/29/2024 11:23	43801	SWIL_T1	15	7	-8	0.51	0.83	0.32	0	0	0	0	0	0	0	0
8/29/2024 11:23	67203	TEHI_T1	26	42	16	0.62	1.6	0.98	3.2	2.86	3	3	0	2100	2100	0
8/29/2024 11:23	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 11:23	43802	SWIL_T1	0	0	0	0	0	0	0.32	0.33	1	1	0	600	600	0
8/29/2024 11:23	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 11:23	47403	PENS_T1	4	3	-1	0.75	0.43	-0.32	0	0	0	0	0	0	0	0
8/29/2024 11:23	64101	REFR_T1	0	10	10	0	0.1	0.1	1.62	1.78	0	0	0	0	0	0
8/29/2024 11:24	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 11:24	47403	PENS_T1	4	3	-1	0.75	0.43	-0.32	0	0	0	0	0	0	0	0
8/29/2024 11:24	47401	PENS_T1	1	3	2	0.9	0.67	-0.23	0.14	0.12	0	0	0	0	0	0
8/29/2024 11:25	53501	EVIL_T2	11	9	-2	0.48	0.39	-0.09	-0.01	-0.01	3	3	0	1400	1400	0
8/29/2024 11:26	64101	REFR_T1	0	10	10	0	0.1	0.1	0.4	0.44	0	0	0	0	0	0
8/29/2024 11:26	43801	SWIL_T1	15	7	-8	0.51	0.83	0.32	0	0	0	0	0	0	0	0
8/29/2024 11:26	43802	SWIL_T1	0	0	0	0	0	0	0.32	0.33	1	1	0	600	600	0
8/29/2024 11:31	67503	WEWI_T2	1	2	1	4.2	4.5	0.3	0.61	0.66	0	0	0	0	0	0
8/29/2024 11:32	21206	ECAR_T2	1	1	0	7.6	7.4	-0.2	0.83	0.78	0	0	0	0	0	0
8/29/2024 11:32	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 11:32	12302	LANA_T2	0	0	0	0	0	0	-1.21	-1.23	2	2	0	1500	1500	0
8/29/2024 11:32	61701	ELIZ_T1	2	2	0	1.5	1.4	-0.1	2.34	2.42	0	0	0	0	0	0
8/29/2024 11:34	46102	MACI_T1	0	0	0	0	0	0	1.1	1.08	0	0	0	0	0	0
8/29/2024 11:34	67503	WEWI_T2	1	2	1	4.2	4.5	0.3	0.61	0.66	0	0	0	0	0	0
8/29/2024 11:34	12606	MACA_T1	0	0	0	0	0	0	0.27	0.28	1	1	0	900	900	0
8/29/2024 11:35	43202	MVIL_T2	51	49	-2	0.38	0.34	-0.04	0	0	0	0	0	0	0	0
8/29/2024 11:35	43201	MVIL_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
8/29/2024 11:35	46903	MNTG_T2	0	3	3	0	0.33	0.33	0.66	0.55	1	1	0	600	600	0
8/29/2024 11:37	51201	MTON_T1	0	0	0	0	0	0	0.75	0.77	0	0	0	0	0	0
8/29/2024 11:37	47403	PENS_T1	3	3	0	0.3	0.77	0.47	0	0	0	0	0	0	0	0
8/29/2024 11:37	14401	SSLA_T1	0	0	0	0	0	0	-0.47	-0.43	1	1	0	1200	1200	0
8/29/2024 11:37	47401	PENS_T1	3	3	0	0.8	0.27	-0.53	0.12	0.15	0	0	0	0	0	0
8/29/2024 11:38	53501	EVIL_T2	9	9	0	0.49	0.57	0.08	-0.01	-0.01	3	3	0	1400	1400	0
8/29/2024 11:39	47401	PENS_T1	3	3	0	0.8	0.27	-0.53	0.25	0.29	0	0	0	0	0	0
8/29/2024 11:39	47403	PENS_T1	3	3	0	0.3	0.77	0.47	0	0	0	0	0	0	0	0
8/29/2024 11:40	47401	PENS_T1	3	3	0	0.8	0.27	-0.53	0.12	0.15	0	0	0	0	0	0
8/29/2024 11:40	47403	PENS_T1	3	3	0	0.3	0.77	0.47	0	0	0	0	0	0	0	0
8/29/2024 11:43	64602	LEOL_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
8/29/2024 11:44	45902	AUBU_T1	0	0	0	0	0	0	-0.14	-0.15	1	1	0	600	600	0
8/29/2024 11:45	60901	DONG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 11:45	47202	FAXO_T2	0	0	0	0	0	0	-1.73	-1.74	0	0	0	0	0	0
8/29/2024 11:45	60902	DONG_T2	0	0	0	0	0	0	0.73	1.41	0	0	0	0	0	0
8/29/2024 11:45	60903	DONG_T2	1	0	-1	6.7	0	-6.7	0	0	0	0	0	0	0	0
8/29/2024 11:46	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/29/2024 11:46	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 11:49	27603	PIRI_T2	0	1	1	0	0.4	0.4	-0.71	-0.71	2	2	0	1800	1800	0
8/29/2024 11:49	27605	PIRI_T2	27	79	52	0.51	0.51	0	0	0	0	0	0	0	0	0
8/29/2024 11:52	41901	REED_T1	2	3	1	0.2	0.2	0	0	0	0	0	0	0	0	0
8/29/2024 11:52	41902	REED_T1	0	2	2	0	0	0	0.66	0.63	1	1	0	900	900	0
8/29/2024 11:52	64101	REFR_T1	10	10	0	1.4	1.56	0.16	0.5	0.5	0	0	0	0	0	0
8/29/2024 11:54	27603	PIRI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/29/2024 11:54	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 11:54	27605	PIRI_T2	27	79	52	0.51	0.51	0	1.6	1.67	0	0	0	0	0	0
8/29/2024 11:54	64101	REFR_T1	10	10	0	1.4	1.56	0.16	1.01	1	0	0	0	0	0	0
8/29/2024 11:55	57401	SPAN_T1	0	0	0	0	0	0	-0.54	-0.47	1	1	0	600	600	0
8/29/2024 11:56	64101	REFR_T1	10	10	0	1.4	1.56	0.16	0.5	0.5	0	0	0	0	0	0
8/29/2024 11:58	53601	DALM_T2	1	1	0	0.1	0.5	0.4	-0.52	-0.5	2	2	0	1500	1500	0
8/29/2024 11:59	41602	CLEV_T1	0	4	4	0	0.88	0.88	0	0	1	1	0	600	600	0
8/29/2024 11:59	67605	WARW_T1	1	1	0	0.3	0.2	-0.1	-1.3	-1.28	0	0	0	0	0	0
8/29/2024 12:00	63501	HEID_TBK1-2	49	50	1	1.73	1.64	-0.09	0.36	0.5	1	1	0	900	900	0
8/29/2024 12:01	67605	WARW_T1	0	1	1	0	0.6	0.6	-0.65	-0.64	0	0	0	0	0	0
8/29/2024 12:02	61303	EARL_T1	1	1	0	0.5	2.2	1.7	0	0	0	0	0	0	0	0
8/29/2024 12:02	61302	EARL_T1	0	0	0	0	0	0	0	-0.37	4	4	0	3600	3600	0
8/29/2024 12:03	59302	MCAL_T1	1	1	0	2.3	1.2	-1.1	0	0	0	0	0	0	0	0
8/29/2024 12:03	65402	MARI_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/29/2024 12:03	65401	MARI_T1	9	9	0	1.84	2.18	0.34	0	0	0	0	0	0	0	0
8/29/2024 12:03	59301	MCAL_T1	6	5	-1	0.83	0	-0.83	-1.3	-1.23	1	1	0	600	600	0
8/29/2024 12:04	64201	KINZ_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
8/29/2024 12:04	64203	KINZ_T1	10	9	-1	1.53	1.21	-0.32	0.8	0.55	3	3	0	2100	2100	0
8/29/2024 12:04	64202	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 12:04	64204	KINZ_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/29/2024 12:05	46903	MNTG_T2	1	1	0	0.6	0.6	0	0.58	0.51	1	1	0	600	600	0
8/29/2024 12:05	64203	KINZ_T1	10	9	-1	1.53	1.21	-0.32	0	0	0	0	0	0	0	0
8/29/2024 12:05	64204	KINZ_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/29/2024 12:05	64202	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 12:05	59301	MCAL_T1	6	5	-1	0.83	0	-0.83	-1.3	-1.23	1	1	0	600	600	0
8/29/2024 12:05	64201	KINZ_T1	1	1	0	0.8	0.5	-0.3	-0.97	-1.03	5	5	0	3300	3300	0
8/29/2024 12:05	59302	MCAL_T1	1	1	0	2.3	1.2	-1.1	0	0	0	0	0	0	0	0
8/29/2024 12:06	59301	MCAL_T1	6	5	-1	0.83	0	-0.83	0	0	0	0	0	0	0	0
8/29/2024 12:06	59302	MCAL_T1	1	1	0	2.3	1.2	-1.1	0	0	0	0	0	0	0	0
8/29/2024 12:07	64902	MILL_T2	0	0	0	0	0	0	-0.34	-0.37	1	1	0	900	900	0
8/29/2024 12:07	64903	MILL_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/29/2024 12:07	46301	ROHR_T1	106	132	26	0.33	0.33	0	0	0	0	0	0	0	0	0
8/29/2024 12:07	46302	ROHR_T1	5	4	-1	1.56	2	0.44	0.35	0.36	0	0	0	0	0	0
8/29/2024 12:09	46302	ROHR_T1	5	4	-1	1.56	2	0.44	0.35	0.36	0	0	0	0	0	0
8/29/2024 12:09	46301	ROHR_T1	106	132	26	0.33	0.33	0	0	0	0	0	0	0	0	0
8/29/2024 12:10	55002	NEWP_T1	0	1	1	0	0.3	0.3	0.03	0.05	0	0	0	0	0	0
8/29/2024 12:10	46302	ROHR_T1	5	4	-1	1.56	2	0.44	0	0	0	0	0	0	0	0
8/29/2024 12:10	46301	ROHR_T1	106	132	26	0.33	0.33	0	0.41	0.43	0	0	0	0	0	0
8/29/2024 12:10	42201	SHEN_T2	0	0	0	0	0	0	0.3	0.3	1	1	0	600	600	0
8/29/2024 12:10	55001	NEWP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/29/2024 12:11	57401	SPAN_T1	0	0	0	0	0	0	-0.47	-0.43	1	1	0	600	600	0
8/29/2024 12:12	64101	REFR_T1	10	10	0	1.56	0.73	-0.83	0.5	-0.08	0	0	0	0	0	0
8/29/2024 12:13	66502	SMAN_T2	2	2	0	0.15	0.4	0.25	0	0	0	0	0	0	0	0
8/29/2024 12:13	66502	SMAN_T2	0	0	0	0	0	0	0.74	0.72	0	0	0	0	0	0
8/29/2024 12:14	46203	DANV_T2	1	1	0	5.4	5	-0.4	0	0	0	0	0	0	0	0
8/29/2024 12:14	46206	DANV_T2	56	66	10	0.83	0.93	0.1	2.25	2.25	2	2	0	2100	2100	0
8/29/2024 12:14	46204	DANV_T2	4	18	14	0.13	0.35	0.22	0	0	0	0	0	0	0	0
8/29/2024 12:15	46205	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 12:15	46203	DANV_T2	1	1	0	4.9	5	0.1	-0.01	-0.04	0	0	0	0	0	0
8/29/2024 12:15	46206	DANV_T2	58	67	9	0.93	1.01	0.08	2.25	2.25	2	2	0	2100	2100	0
8/29/2024 12:15	44801	EDAN_T2	44	53	9	0.27	0.34	0.07	-1.14	-1.13	0	0	0	0	0	0
8/29/2024 12:15	46204	DANV_T2	17	19	2	0.39	0.34	-0.05	0	0	0	0	0	0	0	0
8/29/2024 12:16	46206	DANV_T2	58	67	9	0.93	1.01	0.08	2.25	2.25	2	2	0	2100	2100	0
8/29/2024 12:16	46204	DANV_T2	17	19	2	0.39	0.34	-0.05	0	0	0	0	0	0	0	0
8/29/2024 12:16	46205	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 12:16	46203	DANV_T2	1	1	0	4.9	5	0.1	0	0	0	0	0	0	0	0
8/29/2024 12:17	63501	HEID_TBK1-2	48	50	2	1.68	1.66	-0.02	0.5	0.42	1	1	0	900	900	0
8/29/2024 12:20	17401	FOHI_T1	0	0	0	0	0	0	-1.66	-1.65	0	0	0	0	0	0
8/29/2024 12:21	42901	MIDD_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 12:21	42902	MIDD_T2	1	1	0	2.6	1.6	-1	0	0	0	0	0	0	0	0
8/29/2024 12:21	42903	MIDD_T2	0	0	0	0	0	0	0.98	1.04	1	1	0	1200	1200	0
8/29/2024 12:21	16202	POFA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/29/2024 12:23	59101	WALK_T2	1	2	1	5.8	6.7	0.9	1.43	1.59	2	2	0	1200	1200	0
8/29/2024 12:25	65901	SAXR_T2	7	12	5	0.96	0.94	-0.02	0.74	0.68	1	1	0	600	600	0
8/29/2024 12:26	53501	EVIL_T2	2	10	8	0.5	0.4	-0.1	-0.01	-0.01	3	3	0	1400	1400	0
8/29/2024 12:26	46004	BERW_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
8/29/2024 12:29	64101	REFR_T1	10	10	0	2.04	0.73	-1.31	-0.08	-0.09	0	0	0	0	0	0
8/29/2024 12:31	56504	ROCK_T2	0	65	65	0	8.57	8.57	-0.43	-0.37	0	0	0	0	0	0
8/29/2024 12:31	56501	ROCK_T2	1	2	1	0.5	0.75	0.25	0	0	0	0	0	0	0	0
8/29/2024 12:31	49803	UNIV_T1	1	1	0	5.9	6	0.1	-1.62	-1.57	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/29/2024 12:32	56501	ROCK_T2	1	2	1	0.5	0.75	0.25	0	0	0	0	0	0	0	0
8/29/2024 12:32	23102	MOSC_T2	0	0	0	0	0	0	-0.67	-0.2	4	4	0	4200	4200	0
8/29/2024 12:32	56504	ROCK_T2	0	65	65	0	8.57	8.57	-0.43	-0.37	0	0	0	0	0	0
8/29/2024 12:33	56504	ROCK_T2	0	65	65	0	8.57	8.57	-0.43	-0.37	0	0	0	0	0	0
8/29/2024 12:33	56501	ROCK_T2	1	2	1	0.5	0.75	0.25	0	0	0	0	0	0	0	0
8/29/2024 12:34	56501	ROCK_T2	1	2	1	0.5	0.75	0.25	0	0	0	0	0	0	0	0
8/29/2024 12:34	56504	ROCK_T2	0	65	65	0	8.57	8.57	-0.43	-0.37	0	0	0	0	0	0
8/29/2024 12:35	56501	ROCK_T2	1	2	1	0.5	0.75	0.25	0	0	0	0	0	0	0	0
8/29/2024 12:35	65904	SAKR_T2	0	0	0	0	0	0	-1.41	-1.39	3	3	0	1500	1500	0
8/29/2024 12:35	56504	ROCK_T2	0	65	65	0	8.57	8.57	-0.43	-0.37	0	0	0	0	0	0
8/29/2024 12:35	65901	SAKR_T2	11	9	-2	0.69	0.97	0.28	0	0	0	0	0	0	0	0
8/29/2024 12:36	64201	KINZ_T1	1	10	9	0.5	0.9	0.4	-0.96	-0.9	5	5	1	3300	3300	0
8/29/2024 12:36	64202	KINZ_T1	2	16	14	0.2	0.33	0.13	0	0	0	0	0	0	0	0
8/29/2024 12:36	64203	KINZ_T1	8	34	26	1.44	0.89	-0.55	0	0	0	0	0	0	0	0
8/29/2024 12:36	65901	SAKR_T2	11	9	-2	0.69	0.97	0.28	0	0	0	0	0	0	0	0
8/29/2024 12:36	65902	SAKR_T2	0	0	0	0	0	0	-0.77	-0.7	2	2	0	1200	1200	0
8/29/2024 12:36	13905	SEID_T1	0	0	0	0	0	0	-0.48	-0.55	1	1	0	1200	1200	0
8/29/2024 12:36	64204	KINZ_T1	2	4	2	0.2	0.55	0.35	0	0	0	0	0	0	0	0
8/29/2024 12:40	65901	SAKR_T2	11	9	-2	0.69	0.97	0.28	0.68	0.67	1	1	0	600	600	0
8/29/2024 12:42	64101	REFR_T1	10	10	0	0.73	1.69	0.96	-0.09	-0.08	0	0	0	0	0	0
8/29/2024 12:42	44801	EDAN_T2	52	26	-26	0.33	0.34	0.01	-1.13	-1.12	0	0	0	0	0	0
8/29/2024 12:42	60101	COCA_T1	2	2	0	0.5	0.5	0	-0.05	-0.06	2	2	0	2400	2400	0
8/29/2024 12:43	22701	MINO_T1	0	0	0	0	0	0	-0.5	-0.49	1	1	0	600	600	0
8/29/2024 12:44	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 12:46	10801	CHHI_T1	0	0	0	0	0	0	-0.78	-0.77	2	2	0	1500	1500	0
8/29/2024 12:46	56501	ROCK_T2	2	1	-1	0.85	1.2	0.35	-0.39	-0.34	0	0	0	0	0	0
8/29/2024 12:47	60101	COCA_T1	2	1	-1	0.5	0.7	0.2	-0.05	-0.06	2	2	0	2400	2400	0
8/29/2024 12:47	56501	ROCK_T2	2	1	-1	0.85	1.2	0.35	-0.39	-0.34	0	0	0	0	0	0
8/29/2024 12:48	61504	EPET_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
8/29/2024 12:48	56501	ROCK_T2	2	1	-1	0.85	1.2	0.35	-0.39	-0.34	0	0	0	0	0	0
8/29/2024 12:48	61501	EPET_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
8/29/2024 12:50	56501	ROCK_T2	2	1	-1	0.85	1.2	0.35	-0.39	-0.34	0	0	0	0	0	0
8/29/2024 12:52	55002	NEWP_T1	1	1	0	0.1	1	0.9	0.04	0.06	0	0	0	0	0	0
8/29/2024 12:52	43101	SMIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/29/2024 12:52	43108	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 12:52	43102	SMIL_T2	0	1	1	0	0	0	-0.33	-0.33	1	1	0	600	600	0
8/29/2024 12:56	47401	PENS_T1	3	14	11	0.97	0.95	-0.02	0.23	0.24	0	0	0	0	0	0
8/29/2024 12:56	47402	PENS_T1	2	2	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/29/2024 12:56	47403	PENS_T1	2	1	-1	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
8/29/2024 12:58	46203	DANV_T2	1	2	1	5	4.8	-0.2	0	0	0	0	0	0	0	0
8/29/2024 12:58	46204	DANV_T2	18	19	1	0.36	0.27	-0.09	0	0	0	0	0	0	0	0
8/29/2024 12:58	46205	DANV_T2	2	2	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/29/2024 12:58	46206	DANV_T2	66	88	22	1.15	0.94	-0.21	2.23	2.27	2	2	0	2100	2100	0
8/29/2024 12:58	44801	EDAN_T2	24	22	-2	0.33	0.27	-0.06	-1.12	-1.11	0	0	0	0	0	0
8/29/2024 12:59	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 13:00	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 13:00	45902	AUBU_T1	0	0	0	0	0	0	-0.04	0.06	1	1	0	600	600	0
8/29/2024 13:02	61303	EARL_T1	2	2	0	1.2	0.7	-0.5	0.5	0.63	0	0	0	0	0	0
8/29/2024 13:02	63501	HEID_TBK1-2	49	55	6	2.28	2.32	0.04	0.51	0.49	1	1	0	900	900	0
8/29/2024 13:03	52402	GRPA_T2	2	10	8	0.35	0.6	0.25	0	0	0	0	0	0	0	0
8/29/2024 13:03	58402	MORO_T1	1	0	-1	0.4	0	-0.4	-0.35	-1.24	2	3	1	1500	2400	900
8/29/2024 13:03	58401	MORO_T1	7	10	3	0.33	0.38	0.05	-1.73	-1.71	2	2	0	1500	1500	0
8/29/2024 13:03	28702	HAML_T2	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
8/29/2024 13:03	52403	GRPA_T2	6	8	2	0.77	0.37	-0.4	-0.17	-0.17	0	0	0	0	0	0
8/29/2024 13:03	40101	HUNT_T2	123	162	39	0.35	0.31	-0.04	-0.47	-1.04	0	0	0	0	0	0
8/29/2024 13:03	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 13:03	28701	HAML_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/29/2024 13:03	61303	EARL_T1	2	2	0	1.2	0.7	-0.5	1.01	1.26	0	0	0	0	0	0
8/29/2024 13:04	64701	LITI_T1	9	10	1	0.74	1.09	0.35	0.37	0.4	1	1	0	900	900	0
8/29/2024 13:04	61701	ELIZ_T1	2	1	-1	0.85	0.9	0.05	2.37	2.5	0	0	0	0	0	0
8/29/2024 13:04	42902	MIDD_T2	1	1	0	1.3	1.9	0.6	-0.58	-0.46	1	1	0	600	600	0
8/29/2024 13:04	42901	MIDD_T2	4	3	-1	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
8/29/2024 13:04	40101	HUNT_T2	123	162	39	0.35	0.31	-0.04	-0.47	-1.04	0	0	0	0	0	0
8/29/2024 13:05	63501	HEID_TBK1-2	49	55	6	2.28	2.32	0.04	0.51	0.49	1	1	0	900	900	0
8/29/2024 13:05	61701	ELIZ_T1	2	1	-1	0.85	0.9	0.05	2.37	2.5	0	0	0	0	0	0
8/29/2024 13:05	40101	HUNT_T2	123	162	39	0.35	0.31	-0.04	-0.47	-1.04	0	0	0	0	0	0
8/29/2024 13:06	58401	MORO_T1	7	10	3	0.33	0.38	0.05	-1.73	-1.71	2	2	0	1500	1500	0
8/29/2024 13:06	61303	EARL_T1	2	2	0	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
8/29/2024 13:06	58402	MORO_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/29/2024 13:06	61306	EARL_T1	0	0	0	0	0	0	-1.11	-1.1	0	0	0	0	0	0
8/29/2024 13:07	65602	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 13:07	65901	SAKR_T2	7	12	5	0.94	1.15	0.21	0	0	0	0	0	0	0	0
8/29/2024 13:07	61701	ELIZ_T1	2	1	-1	0.85	0.9	0.05	2.5	2.66	0	0	0	0	0	0
8/29/2024 13:07	65604	QVIL_T2	0	1	1	0	0	0	0.33	0.32	0	0	0	0	0	0
8/29/2024 13:07	65902	SAKR_T2	0	0	0	0	0	0	-0.65	-0.71	2	2	0	1200	1200	0
8/29/2024 13:08	55001	NEWP_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 13:08	59202	THOM_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/29/2024 13:08	55002	NEWP_T1	1	1	0	0.2	1	0.8	0.06	0.05	0	0	0	0	0	0
8/29/2024 13:09	66402	ROBE_T1	0	0	0	0	0	0	-0.85	-0.92	2	2	0	1500	1500	0
8/29/2024 13:09	64101	REFR_T1	10	12	2	2.15	1.73	-0.42	-0.11	-0.11	0	0	0	0	0	0
8/29/2024 13:09	66401	ROBE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 13:09	59202	THOM_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/29/2024 13:10	20403	ASHF_T2	0	0	0	0	0	0	1.53	1.89	0	0	0	0	0	0
8/29/2024 13:10	20401	ASHF_T2	1	4	3	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/29/2024 13:11	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/29/2024 13:12	46205	DANV_T2	2	0	-2	0.55	0	-0.55	-1.26	-1.27	2	2	0	2400	2400	0
8/29/2024 13:12	46206	DANV_T2	81	75	-6	1.09	0.69	-0.4	0	0	0	0	0	0	0	0
8/29/2024 13:12	46204	DANV_T2	19	16	-3	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
8/29/2024 13:12	46203	DANV_T2	1	2	1	4.8	4.7	-0.1	0	0	0	0	0	0	0	0
8/29/2024 13:13	64101	REFR_T1	10	12	2	2.15	1.73	-0.42	-0.11	-0.11	0	0	0	0	0	0
8/29/2024 13:14	51906	COPA_T1	0	0	0	0	0	0	-1	-1	2	2	0	1500	1500	0
8/29/2024 13:14	51904	COPA_T1	1	2	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
8/29/2024 13:14	20403	ASHF_T2	0	0	0	0	0	0	1.53	1.89	0	0	0	0	0	0
8/29/2024 13:14	20401	ASHF_T2	1	4	3	0.3	0.6	0.3	0	0	0	0	0	0	0	0
8/29/2024 13:14	61102	BERK_T5	0	0	0	0	0	0	0.92	0.94	1	1	0	300	300	0
8/29/2024 13:15	61102	BERK_T5	0	0	0	0	0	0	0.92	0.94	1	1	0	300	300	0
8/29/2024 13:15	61505	EPET_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
8/29/2024 13:17	44203	POIN_T2	4	3	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
8/29/2024 13:17	44202	POIN_T2	1	1	0	0.4	0	-0.4	-0.43	-0.35	1	1	0	1200	1200	0
8/29/2024 13:18	41702	LOGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 13:22	47401	PENS_T1	14	3	-11	1.06	0.47	-0.59	-0.58	-0.63	0	0	0	0	0	0
8/29/2024 13:22	47402	PENS_T1	2	3	1	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/29/2024 13:22	47403	PENS_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
8/29/2024 13:23	67602	WARW_T2	0	0	0	0	0	0	-0.31	-0.3	2	2	0	1500	1500	0
8/29/2024 13:24	64101	REFR_T1	12	11	-1	1.65	1.25	-0.4	-0.11	-0.1	0	0	0	0	0	0
8/29/2024 13:25	66902	SHIL_T2	0	0	0	0	0	0	-0.81	-0.77	0	0	0	0	0	0
8/29/2024 13:26	55001	NEWP_T1	0	9	9	0	0.32	0.32	-0.18	-0.13	1	1	0	600	600	0
8/29/2024 13:26	54602	SUMM_T2	0	0	0	0	0	0	-1.78	-1.78	1	1	0	600	600	0
8/29/2024 13:26	55002	NEWP_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
8/29/2024 13:26	16101	BING_T2	0	2	2	0	0	0	0.9	0.9	0	0	0	0	0	0
8/29/2024 13:27	45501	DERR_T2	5	11	6	0.74	0.57	-0.17	1.16	1.26	2	2	0	1800	1800	0
8/29/2024 13:27	45502	DERR_T2	36	54	18	0.38	0.39	0.01	0	0	0	0	0	0	0	0
8/29/2024 13:28	45501	DERR_T2	5	11	6	0.74	0.57	-0.17	3.48	3.79	6	6	0	5400	5400	0
8/29/2024 13:28	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/29/2024 13:28	45502	DERR_T2	36	54	18	0.38	0.39	0.01	0	0	0	0	0	0	0	0
8/29/2024 13:29	45901	AUBU_T1	0	0	0	0	0	0	0.78	0.77	0	0	0	0	0	0
8/29/2024 13:29	45501	DERR_T2	5	11	6	0.74	0.57	-0.17	2.32	2.53	4	4	0	3600	3600	0
8/29/2024 13:29	20401	ASHF_T2	4	5	1	0.6	0.85	0.25	0	0	0	0	0	0	0	0
8/29/2024 13:29	20403	ASHF_T2	0	0	0	0	0	0	1.89	1.76	0	0	0	0	0	0
8/29/2024 13:29	45502	DERR_T2	36	54	18	0.38	0.39	0.01	0.52	0.45	1	1	0	300	300	0
8/29/2024 13:34	44203	POIN_T2	3	3	0	1.07	0	-1.07	-0.19	-0.28	3	3	0	3300	3300	0
8/29/2024 13:34	56501	ROCK_T2	1	6	5	1	0.4	-0.6	-0.35	-1.59	0	0	0	0	0	0
8/29/2024 13:34	58401	MORO_T1	10	9	-1	0.77	0.89	0.12	-1.66	-1.66	2	2	0	1500	1500	0
8/29/2024 13:34	44202	POIN_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/29/2024 13:35	29302	DAPP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 13:35	29301	DAPP_T1	1	1	0	5.3	5.3	0	0	0	1	1	0	600	600	0
8/29/2024 13:36	61701	ELIZ_T1	1	1	0	0.7	1.4	0.7	2.54	2.6	0	0	0	0	0	0
8/29/2024 13:36	22602	KIMB_T1	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
8/29/2024 13:37	64203	KINZ_T1	57	308	251	0.84	0.67	-0.17	1.6	1.77	6	6	0	4200	4200	0
8/29/2024 13:37	64202	KINZ_T1	40	58	18	0.45	0.83	0.38	0	0	0	0	0	0	0	0
8/29/2024 13:37	64204	KINZ_T1	8	106	98	1	0.57	-0.43	0	0	0	0	0	0	0	0
8/29/2024 13:37	64201	KINZ_T1	94	447	353	0.36	0.68	0.32	0	0	0	0	0	0	0	0
8/29/2024 13:38	58401	MORO_T1	10	9	-1	0.77	0.89	0.12	-1.66	-1.63	2	2	0	1500	1500	0
8/29/2024 13:38	61701	ELIZ_T1	1	1	0	0.7	1.4	0.7	2.54	2.6	0	0	0	0	0	0
8/29/2024 13:40	67203	TEHI_T1	42	36	-6	0.83	0.93	0.1	0	0	0	0	0	0	0	0
8/29/2024 13:40	67201	TEHI_T1	5	7	2	0.4	0	-0.4	0.85	0.06	2	2	0	1500	1500	0
8/29/2024 13:40	59202	THOM_T1	2	2	0	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/29/2024 13:41	55001	NEWP_T1	5	9	4	0.32	0.5	0.18	-0.13	-0.14	1	1	0	600	600	0
8/29/2024 13:41	59202	THOM_T1	2	2	0	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/29/2024 13:41	46004	BERW_T2	0	1	1	0	0.3	0.3	0.51	0.52	0	0	0	0	0	0
8/29/2024 13:43	44801	EDAN_T2	18	32	14	0.29	0.3	0.01	0	0	0	0	0	0	0	0
8/29/2024 13:43	44802	EDAN_T2	0	0	0	0	0	0	-1.38	-1.37	0	0	0	0	0	0
8/29/2024 13:44	44801	EDAN_T2	18	32	14	0.29	0.3	0.01	0	0	0	0	0	0	0	0
8/29/2024 13:44	44802	EDAN_T2	0	0	0	0	0	0	-1.38	-1.37	0	0	0	0	0	0
8/29/2024 13:45	21701	SUBU_T1	3	1	-2	2.73	7.2	4.47	0	0	0	0	0	0	0	0
8/29/2024 13:45	21703	SUBU_T1	1	0	-1	0.6	0	-0.6	0.84	-0.62	0	0	0	0	0	0
8/29/2024 13:45	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.14	-0.3	1	1	0	600	600	0
8/29/2024 13:45	44802	EDAN_T2	0	0	0	0	0	0	-1.38	-1.37	0	0	0	0	0	0
8/29/2024 13:45	45801	HEGI_T1	0	0	0	0	0	0	0.02	0.01	1	1	0	900	900	0
8/29/2024 13:45	44801	EDAN_T2	14	47	33	0.35	0.36	0.01	0	0	0	0	0	0	0	0
8/29/2024 13:45	21705	SUBU_T1	1	1	0	6.7	6.5	-0.2	0	0	0	0	0	0	0	0
8/29/2024 13:46	44802	EDAN_T2	0	0	0	0	0	0	-1.38	-1.37	0	0	0	0	0	0
8/29/2024 13:46	44801	EDAN_T2	14	47	33	0.35	0.36	0.01	0	0	0	0	0	0	0	0
8/29/2024 13:48	22805	HAUT_T2	0	0	0	0	0	0	-1.35	-1.32	1	1	0	1200	1200	0
8/29/2024 13:48	44801	EDAN_T2	14	47	33	0.35	0.36	0.01	0	0	0	0	0	0	0	0
8/29/2024 13:48	44802	EDAN_T2	0	0	0	0	0	0	-1.38	-1.37	0	0	0	0	0	0
8/29/2024 13:49	44802	EDAN_T2	0	0	0	0	0	0	-1.38	-1.37	0	0	0	0	0	0
8/29/2024 13:49	44801	EDAN_T2	14	47	33	0.35	0.36	0.01	0	0	0	0	0	0	0	0
8/29/2024 13:51	52501	PROG_T1	0	0	0	0	0	0	-0.34	-0.38	1	1	0	300	300	0
8/29/2024 13:51	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/29/2024 13:53	12402	MILF_T1	136	139	3	0.91	0.94	0.03	1.15	1.16	0	0	0	0	0	0
8/29/2024 13:54	43101	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 13:54	43103	SMIL_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/29/2024 13:55	43103	SMIL_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
8/29/2024 13:55	29401	BELT_T1	0	49	49	0	0.26	0.26	0	0	1	1	0	900	900	0
8/29/2024 13:55	29402	BELT_T1	1	28	27	6.7	0.57	-6.13	0	0	0	0	0	0	0	0
8/29/2024 13:55	59202	THOM_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/29/2024 13:55	43101	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 13:56	59202	THOM_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/29/2024 13:56	67201	TEHI_T1	7	0	-7	0.47	0	-0.47	0.06	0.1	2	2	0	1500	1500	0
8/29/2024 13:56	67203	TEHI_T1	36	9	-27	0.72	1.05	0.33	0	0	0	0	0	0	0	0
8/29/2024 13:59	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.3	-0.39	1	1	0	600	600	0
8/29/2024 14:00	50107	HARR_T3	1	1	0	8.5	8.3	-0.2	0	0	0	0	0	0	0	0
8/29/2024 14:00	50105	HARR_T3	6	6	0	8.42	8.53	0.11	0	0	0	0	0	0	0	0
8/29/2024 14:00	50201	HARR_T3	1	1	0	9.8	9	-0.8	0	0	0	0	0	0	0	0
8/29/2024 14:00	50103	HARR_T3	4	11	7	0.28	0.3	0.02	0	0	1	1	0	1200	1200	0
8/29/2024 14:02	50107	HARR_T3	1	1	0	8.5	8.3	-0.2	0	0	0	0	0	0	0	0
8/29/2024 14:02	50103	HARR_T3	4	11	7	0.28	0.3	0.02	0	0	0	0	0	0	0	0
8/29/2024 14:02	50201	HARR_T3	1	1	0	9.8	9	-0.8	0	0	0	0	0	0	0	0
8/29/2024 14:02	50105	HARR_T3	6	6	0	8.42	8.53	0.11	0	0	0	0	0	0	0	0
8/29/2024 14:05	64201	KINZ_T1	447	436	-11	1.23	1.09	-0.14	0	0	0	0	0	0	0	0
8/29/2024 14:05	64203	KINZ_T1	306	249	-57	0.63	0.61	-0.02	0.89	0.84	3	3	0	2100	2100	0
8/29/2024 14:05	64202	KINZ_T1	58	55	-3	1.05	0.93	-0.12	0	0	0	0	0	0	0	0
8/29/2024 14:05	64204	KINZ_T1	105	47	-58	0.48	0.49	0.01	0	0	0	0	0	0	0	0
8/29/2024 14:06	13601	RICH_T2	0	0	0	0	0	0	0.69	0.75	0	0	0	0	0	0
8/29/2024 14:07	43201	MVIL_T2	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
8/29/2024 14:07	43202	MVIL_T2	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
8/29/2024 14:10	55001	NEWP_T1	1	2	1	0.5	0	-0.5	-0.11	-0.11	1	1	0	600	600	0
8/29/2024 14:11	14102	TRUM_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/29/2024 14:11	55002	NEWP_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
8/29/2024 14:11	14103	TRUM_T2	2	5	3	0.2	0.2	0	0	0	0	0	0	0	0	0
8/29/2024 14:11	55001	NEWP_T1	1	2	1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/29/2024 14:11	14101	TRUM_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
8/29/2024 14:11	57401	SPAN_T1	1	4	3	0.1	0.4	0.3	-0.15	-0.18	1	1	0	600	600	0
8/29/2024 14:12	45901	AUBU_T1	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
8/29/2024 14:12	14103	TRUM_T2	2	5	3	0.2	0.2	0	0	0	0	0	0	0	0	0
8/29/2024 14:12	14102	TRUM_T2	1	1	0	0.3	0.4	0.1	-0.34	-0.4	3	3	0	2400	2400	0
8/29/2024 14:12	45902	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/29/2024 14:14	41903	REED_T1	4	4	0	0.25	0.48	0.23	0	0	0	0	0	0	0	0
8/29/2024 14:14	41902	REED_T1	3	5	2	0.5	0.4	-0.1	0.69	0.68	1	1	0	900	900	0
8/29/2024 14:16	45702	LIND_T2	0	0	0	0	0	0	-1.21	-1.21	0	0	0	0	0	0
8/29/2024 14:16	44703	MUNC_T2	1	4	3	0.1	0	-0.1	1.25	1.23	0	0	0	0	0	0
8/29/2024 14:16	52403	GRPA_T2	3	11	8	1.23	0.64	-0.59	0	0	0	0	0	0	0	0
8/29/2024 14:16	57505	LAWN_T3	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
8/29/2024 14:16	57506	LAWN_T3	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 14:16	57502	LAWN_T3	1	4	3	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/29/2024 14:16	52401	GRPA_T2	9	4	-5	0.2	0.33	0.13	0	0	0	0	0	0	0	0
8/29/2024 14:16	52402	GRPA_T2	8	2	-6	0.6	0.6	0	-0.36	-0.38	0	0	0	0	0	0
8/29/2024 14:17	48302	ORWI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/29/2024 14:18	45702	LIND_T2	0	0	0	0	0	0	-1.21	-1.21	0	0	0	0	0	0
8/29/2024 14:19	56501	ROCK_T2	5	7	2	0.28	0.36	0.08	-1.51	-1.56	0	0	0	0	0	0
8/29/2024 14:20	57304	MOAL_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 14:20	57302	MOAL_T2	0	0	0	0	0	0	-0.58	-0.54	1	1	0	1200	1200	0
8/29/2024 14:20	57303	MOAL_T2	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
8/29/2024 14:21	56501	ROCK_T2	5	7	2	0.28	0.36	0.08	-1.51	-1.56	0	0	0	0	0	0
8/29/2024 14:22	56501	ROCK_T2	5	7	2	0.28	0.36	0.08	-1.56	-1.52	0	0	0	0	0	0
8/29/2024 14:22	52101	MEIS_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
8/29/2024 14:22	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
8/29/2024 14:23	56501	ROCK_T2	5	7	2	0.28	0.36	0.08	-1.56	-1.52	0	0	0	0	0	0
8/29/2024 14:23	54203	PENN_T1	5	5	0	0.26	0.28	0.02	0	0	0	0	0	0	0	0
8/29/2024 14:23	54601	SUMM_T2	0	0	0	0	0	0	-1.81	-1.86	3	3	0	3000	3000	0
8/29/2024 14:23	54201	PENN_T1	3	2	-1	0.33	0.15	-0.18	-1.47	-1.5	0	0	0	0	0	0
8/29/2024 14:24	63403	HONY_T2	0	6	6	0	0.17	0.17	-1.06	-1.08	1	1	0	600	600	0
8/29/2024 14:25	42701	AUGU_T1	3	3	0	0.43	0.25	-0.18	0	0	2	2	0	1800	1800	0
8/29/2024 14:27	42701	AUGU_T1	3	3	0	0.43	0.25	-0.18	0	0	2	2	0	1800	1800	0
8/29/2024 14:30	41903	REED_T1	4	4	0	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
8/29/2024 14:30	11805	FRAN_T1	0	0	0	0	0	0	-2.39	-2.36	1	1	0	1200	1200	0
8/29/2024 14:30	41901	REED_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 14:30	41902	REED_T1	5	25	20	0.66	0.62	-0.04	0.68	0.73	1	1	0	900	900	0
8/29/2024 14:30	11804	FRAN_T1	70	168	98	0.54	0.64	0.1	0	0	0	0	0	0	0	0
8/29/2024 14:31	63602	LETO_T1	1	1	0	0.1	0	-0.1	-0.62	-0.54	2	2	0	1200	1200	0
8/29/2024 14:31	50105	HARR_T3	6	13	7	8.62	8.6	-0.02	0	0	0	0	0	0	0	0
8/29/2024 14:31	63802	HEMP_T1	0	0	0	0	0	0	0.6	0.57	0	0	0	0	0	0
8/29/2024 14:31	63801	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 14:31	64601	LEOL_T1	0	0	0	0	0	0	-1.23	-1.25	1	1	0	1200	1200	0
8/29/2024 14:31	13806	SALI_T1	0	0	0	0	0	0	0.33	0.25	1	1	0	1200	1200	0
8/29/2024 14:31	13803	SALI_T1	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
8/29/2024 14:31	50103	HARR_T3	11	11	0	0.55	0.54	-0.01	0	0	1	1	0	1200	1200	0
8/29/2024 14:31	64603	LEOL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 14:31	50107	HARR_T3	1	1	0	8.3	8.3	0	0	0	0	0	0	0	0	0
8/29/2024 14:31	13801	SALI_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/29/2024 14:31	61001	DONV_T1	0	0	0	0	0	0	-1.84	-1.82	0	0	0	0	0	0
8/29/2024 14:31	61002	DONV_T2	0	0	0	0	0	0	-0.16	-0.22	2	2	0	1200	1200	0
8/29/2024 14:31	24001	WIBA_T1	2	3	1	1.1	1.55	0.45	0.71	0.72	0	0	0	0	0	0
8/29/2024 14:31	50201	HARR_T3	1	1	0	8.1	9	0.9	0	0	0	0	0	0	0	0
8/29/2024 14:31	24002	WIBA_T1	1	1	0	5.8	1.4	-4.4	0	0	0	0	0	0	0	0
8/29/2024 14:31	63804	HEMP_T1	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
8/29/2024 14:32	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 14:32	61001	DONV_T1	0	0	0	0	0	0	-1.84	-1.82	0	0	0	0	0	0
8/29/2024 14:32	46506	LOHA_T1	0	0	0	0	0	0	0.28	0.31	0	0	0	0	0	0
8/29/2024 14:32	50201	HARR_T3	1	1	0	8.1	9	0.9	0	0	0	0	0	0	0	0
8/29/2024 14:32	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 14:32	41202	KENM_T2	2	2	0	1.5	0.9	-0.6	0.32	0.31	0	0	0	0	0	0
8/29/2024 14:32	46504	LOHA_T1	4	4	0	0.9	0.13	-0.77	0	0	0	0	0	0	0	0
8/29/2024 14:32	50107	HARR_T3	1	1	0	8.3	8.3	0	0	0	0	0	0	0	0	0
8/29/2024 14:32	46501	LOHA_T1	3	8	5	0.83	0.3	-0.53	0	0	0	0	0	0	0	0
8/29/2024 14:32	64601	LEOL_T1	0	0	0	0	0	0	-2.47	-2.5	2	2	0	2400	2400	0
8/29/2024 14:32	42601	TUSC_T1	0	0	0	0	0	0	-0.42	-0.56	2	2	0	1800	1800	0
8/29/2024 14:32	40902	JESH_T1	0	0	0	0	0	0	-0.9	-0.93	2	2	0	1200	1200	0
8/29/2024 14:32	64603	LEOL_T1	0	1	1	0	0	0	0.5	0.54	2	2	0	1200	1200	0
8/29/2024 14:32	61303	EARL_T1	1	1	0	0.9	0	-0.9	-0.43	-0.71	0	0	0	0	0	0
8/29/2024 14:32	50103	HARR_T3	11	11	0	0.55	0.54	-0.01	0	0	2	2	0	2400	2400	0
8/29/2024 14:32	61301	EARL_T1	0	0	0	0	0	0	-0.79	-0.85	2	2	0	1800	1800	0
8/29/2024 14:32	40901	JESH_T1	1	1	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
8/29/2024 14:32	63602	LETO_T1	1	1	0	0.1	0	-0.1	-0.62	-0.54	2	2	0	1200	1200	0
8/29/2024 14:32	45702	LIND_T2	0	2	2	0	0.25	0.25	-2.43	-2.43	0	0	0	0	0	0
8/29/2024 14:32	50105	HARR_T3	6	13	7	8.62	8.6	-0.02	0	0	0	0	0	0	0	0
8/29/2024 14:33	63801	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 14:33	50107	HARR_T3	1	1	0	8.3	8.3	0	0	0	0	0	0	0	0	0
8/29/2024 14:33	57501	LAWN_T3	0	0	0	0	0	0	-1.89	-1.75	0	0	0	0	0	0
8/29/2024 14:33	57502	LAWN_T3	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
8/29/2024 14:33	63802	HEMP_T1	0	0	0	0	0	0	1.8	1.71	0	0	0	0	0	0
8/29/2024 14:33	41202	KENM_T2	2	2	0	1.5	0.9	-0.6	0.32	0.31	0	0	0	0	0	0
8/29/2024 14:33	50201	HARR_T3	1	1	0	8.1	9	0.9	0	0	0	0	0	0	0	0
8/29/2024 14:33	47101	MARL_T1	4	1	-3	0.1	0	-0.1	-0.25	-0.19	0	0	0	0	0	0
8/29/2024 14:33	51306	WIND_T2	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
8/29/2024 14:33	57506	LAWN_T3	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 14:33	40902	JESH_T1	0	0	0	0	0	0	-0.9	-0.93	2	2	0	1200	1200	0
8/29/2024 14:33	40901	JESH_T1	1	1	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
8/29/2024 14:33	63804	HEMP_T1	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
8/29/2024 14:33	50103	HARR_T3	11	11	0	0.55	0.54	-0.01	0	0	2	2	0	2400	2400	0
8/29/2024 14:33	61001	DONV_T1	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
8/29/2024 14:33	13803	SALI_T1	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
8/29/2024 14:33	50105	HARR_T3	6	13	7	8.62	8.6	-0.02	0	0	0	0	0	0	0	0
8/29/2024 14:33	13806	SALI_T1	0	0	0	0	0	0	0.33	0.25	1	1	0	1200	1200	0
8/29/2024 14:33	13801	SALI_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/29/2024 14:33	64702	LITI_T2	0	0	0	0	0	0	0.22	0.33	0	0	0	0	0	0
8/29/2024 14:34	57501	LAWN_T3	0	0	0	0	0	0	-3.79	-3.49	0	0	0	0	0	0
8/29/2024 14:34	57201	ROSS_T1	0	0	0	0	0	0	-1	-0.96	0	0	0	0	0	0
8/29/2024 14:34	57502	LAWN_T3	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
8/29/2024 14:34	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/29/2024 14:34	57506	LAWN_T3	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 14:34	13801	SALI_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/29/2024 14:34	41202	KENM_T2	2	2	0	1.5	0.9	-0.6	0.32	0.31	0	0	0	0	0	0
8/29/2024 14:34	42601	TUSC_T1	0	0	0	0	0	0	-0.42	-0.56	2	2	0	1800	1800	0
8/29/2024 14:34	65004	NEFF_T2	0	0	0	0	0	0	-0.31	-0.32	1	1	0	600	600	0
8/29/2024 14:34	47101	MARL_T1	4	1	-3	0.1	0	-0.1	-0.25	-0.19	0	0	0	0	0	0
8/29/2024 14:34	13806	SALI_T1	0	0	0	0	0	0	0.33	0.25	1	1	0	1200	1200	0
8/29/2024 14:34	13803	SALI_T1	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
8/29/2024 14:35	50201	HARR_T3	1	1	0	8.1	9	0.9	0	0	0	0	0	0	0	0
8/29/2024 14:35	61303	EARL_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
8/29/2024 14:35	13803	SALI_T1	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
8/29/2024 14:35	65001	NEFF_T2	0	0	0	0	0	0	-1.66	-1.64	2	2	0	2400	2400	0
8/29/2024 14:35	51704	OBER_T1	0	0	0	0	0	0	-1.13	-1.15	1	1	0	1200	1200	0
8/29/2024 14:35	51702	OBER_T1	2	2	0	1	1.45	0.45	-2.23	-2.43	3	3	0	1800	1800	0
8/29/2024 14:35	13806	SALI_T1	0	0	0	0	0	0	1.32	1	4	4	0	4800	4800	0
8/29/2024 14:35	13801	SALI_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/29/2024 14:35	53501	EVIL_T2	7	9	2	0.51	0.8	0.29	-0.01	-0.01	3	3	0	1400	1400	0
8/29/2024 14:35	61301	EARL_T1	0	0	0	0	0	0	-0.79	-0.85	2	2	0	1800	1800	0
8/29/2024 14:35	50107	HARR_T3	1	1	0	8.3	8.3	0	0	0	0	0	0	0	0	0
8/29/2024 14:35	61002	DONV_T2	0	0	0	0	0	0	-0.16	-0.22	2	2	0	1200	1200	0
8/29/2024 14:35	50105	HARR_T3	6	13	7	8.62	8.6	-0.02	0	0	0	0	0	0	0	0
8/29/2024 14:35	65004	NEFF_T2	0	0	0	0	0	0	-0.31	-0.32	1	1	0	600	600	0
8/29/2024 14:35	50103	HARR_T3	11	11	0	0.55	0.54	-0.01	0	0	1	1	0	1200	1200	0
8/29/2024 14:35	57506	LAWN_T3	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 14:35	64702	LITI_T2	0	0	0	0	0	0	0.22	0.33	0	0	0	0	0	0
8/29/2024 14:35	57502	LAWN_T3	0	5	5	0	0.4	0.4	0.61	0.62	0	0	0	0	0	0
8/29/2024 14:36	52006	LING_T2	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 14:36	52002	LING_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 14:36	27604	PIRI_T1	0	0	0	0	0	0	0.3	0.21	0	0	0	0	0	0
8/29/2024 14:36	57003	WHHI_T2	14	14	0	1.06	1.42	0.36	0	0	0	0	0	0	0	0
8/29/2024 14:36	51306	WIND_T2	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
8/29/2024 14:36	53501	EVIL_T2	7	9	2	0.51	0.8	0.29	-0.01	-0.01	3	3	0	1400	1400	0
8/29/2024 14:36	65001	NEFF_T2	0	0	0	0	0	0	-0.82	-0.78	1	1	0	1200	1200	0
8/29/2024 14:36	53801	MBRG_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/29/2024 14:36	58705	ROSE_T2	2	2	0	1.15	1.3	0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/29/2024 14:36	46504	LOHA_T1	4	4	0	0.9	0.13	-0.77	0	0	0	0	0	0	0	0
8/29/2024 14:36	64903	MILL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/29/2024 14:36	50105	HARR_T3	6	13	7	8.62	8.6	-0.02	0	0	0	0	0	0	0	0
8/29/2024 14:36	64902	MILL_T2	0	0	0	0	0	0	-0.86	-0.84	3	3	0	2700	2700	0
8/29/2024 14:36	46501	LOHA_T1	3	8	5	0.83	0.3	-0.53	0	0	0	0	0	0	0	0
8/29/2024 14:36	47101	MARL_T1	4	1	-3	0.1	0	-0.1	-0.19	-0.31	0	0	0	0	0	0
8/29/2024 14:36	50107	HARR_T3	1	1	0	8.3	8.3	0	0	0	0	0	0	0	0	0
8/29/2024 14:36	53802	MBRG_T2	0	0	0	0	0	0	1.2	1.19	0	0	0	0	0	0
8/29/2024 14:36	50201	HARR_T3	1	1	0	8.1	9	0.9	0	0	0	0	0	0	0	0
8/29/2024 14:36	57004	WHHI_T2	0	0	0	0	0	0	-0.03	-0.08	0	0	0	0	0	0
8/29/2024 14:36	50103	HARR_T3	11	11	0	0.55	0.54	-0.01	0	0	1	1	0	1200	1200	0
8/29/2024 14:36	51702	OBER_T1	2	2	0	1	1.45	0.45	-0.74	-0.81	1	1	0	600	600	0
8/29/2024 14:36	64702	LITI_T2	0	0	0	0	0	0	0.33	0.4	0	0	0	0	0	0
8/29/2024 14:36	58702	ROSE_T2	0	0	0	0	0	0	-1.39	-1.37	0	0	0	0	0	0
8/29/2024 14:36	58706	ROSE_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
8/29/2024 14:36	61701	ELIZ_T1	1	1	0	0.9	1.3	0.4	2.58	2.3	0	0	0	0	0	0
8/29/2024 14:36	52004	LING_T2	2	3	1	4.15	2.97	-1.18	0.61	0.62	0	0	0	0	0	0
8/29/2024 14:36	46506	LOHA_T1	0	0	0	0	0	0	0.31	0.42	0	0	0	0	0	0
8/29/2024 14:37	46501	LOHA_T1	3	8	5	0.83	0.3	-0.53	0	0	0	0	0	0	0	0
8/29/2024 14:37	57506	LAWN_T3	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 14:37	66702	STRA_T1	0	0	0	0	0	0	-0.6	-0.79	3	3	0	2700	2700	0
8/29/2024 14:37	48301	OKWI_T1	2	2	0	2.9	3.15	0.25	0.31	0.26	2	2	0	1800	1800	0
8/29/2024 14:37	47101	MARL_T1	4	1	-3	0.1	0	-0.1	-0.19	-0.31	0	0	0	0	0	0
8/29/2024 14:37	57101	SPHI_T2	0	6	6	0	0.12	0.12	-0.48	-0.48	0	0	0	0	0	0
8/29/2024 14:37	65003	NEFF_T2	0	0	0	0	0	0	-0.05	-0.01	2	2	0	1800	1800	0
8/29/2024 14:37	64902	MILL_T2	0	0	0	0	0	0	-0.29	-0.28	1	1	0	900	900	0
8/29/2024 14:37	61703	ELIZ_T1	0	0	0	0	0	0	-4.55	-4.52	4	4	0	4200	4200	0
8/29/2024 14:37	13501	MCMI_T1	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
8/29/2024 14:37	57003	WHHI_T2	14	14	0	1.06	1.42	0.36	0	0	0	0	0	0	0	0
8/29/2024 14:37	57004	WHHI_T2	0	0	0	0	0	0	-0.08	-0.02	0	0	0	0	0	0
8/29/2024 14:37	27604	PIRI_T1	0	0	0	0	0	0	0.3	0.21	0	0	0	0	0	0
8/29/2024 14:37	57106	SPHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/29/2024 14:37	51702	OBER_T1	2	2	0	1	1.45	0.45	-2.43	-2.35	3	3	0	1800	1800	0
8/29/2024 14:37	57001	WHHI_T2	0	0	0	0	0	0	-1.61	-1.64	1	1	0	900	900	0
8/29/2024 14:37	64903	MILL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/29/2024 14:37	61302	EARL_T1	0	0	0	0	0	0	-0.26	-0.27	4	4	0	3600	3600	0
8/29/2024 14:37	57501	LAWN_T3	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
8/29/2024 14:37	57505	LAWN_T3	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
8/29/2024 14:37	61701	ELIZ_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
8/29/2024 14:37	46504	LOHA_T1	4	4	0	0.9	0.13	-0.77	0	0	0	0	0	0	0	0
8/29/2024 14:37	52002	LING_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 14:37	46506	LOHA_T1	0	0	0	0	0	0	0.31	0.42	0	0	0	0	0	0
8/29/2024 14:37	57104	SPHI_T2	0	0	0	0	0	0	-1.88	-1.88	1	1	0	900	900	0
8/29/2024 14:37	52004	LING_T2	2	3	1	4.15	2.97	-1.18	0.62	0.6	0	0	0	0	0	0
8/29/2024 14:37	52006	LING_T2	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 14:37	65503	MOJO_T2	6	4	-2	0.88	0.63	-0.25	0.5	0.43	1	1	0	900	900	0
8/29/2024 14:37	61303	EARL_T1	1	1	0	0.9	0	-0.9	-0.71	-0.66	0	0	0	0	0	0
8/29/2024 14:37	57502	LAWN_T3	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
8/29/2024 14:37	57002	WHHI_T2	0	0	0	0	0	0	-2.5	-2.45	2	2	0	2400	2400	0
8/29/2024 14:38	61701	ELIZ_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
8/29/2024 14:38	47403	PENS_T1	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
8/29/2024 14:38	44901	SCOT_T2	0	0	0	0	0	0	1.08	1.09	0	0	0	0	0	0
8/29/2024 14:38	57502	LAWN_T3	0	5	5	0	0.4	0.4	0.62	0.78	0	0	0	0	0	0
8/29/2024 14:38	51702	OBER_T1	2	2	0	1	1.45	0.45	-0.81	-0.78	1	1	0	600	600	0
8/29/2024 14:38	57006	WHHI_T2	0	0	0	0	0	0	3.76	3.83	4	4	0	2400	2400	0
8/29/2024 14:38	64702	LITI_T2	0	0	0	0	0	0	0.33	0.4	0	0	0	0	0	0
8/29/2024 14:38	47402	PENS_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 14:38	57506	LAWN_T3	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 14:38	44902	SCOT_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 14:38	57201	ROSS_T1	0	0	0	0	0	0	-0.96	-0.94	0	0	0	0	0	0
8/29/2024 14:38	53501	EVIL_T2	7	9	2	0.51	0.8	0.29	-0.01	-0.01	3	3	0	1400	1400	0
8/29/2024 14:38	43201	MVIL_T2	0	0	0	0	0	0	0.04	-0.09	0	0	0	0	0	0
8/29/2024 14:38	43202	MVIL_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
8/29/2024 14:38	61703	ELIZ_T1	0	0	0	0	0	0	-2.27	-2.26	2	2	0	2100	2100	0
8/29/2024 14:38	47401	PENS_T1	2	8	6	0.45	0.83	0.38	-0.54	0.36	0	0	0	0	0	0
8/29/2024 14:38	57001	WHHI_T2	0	0	0	0	0	0	-1.61	-1.64	1	1	0	900	900	0
8/29/2024 14:38	57004	WHHI_T2	0	0	0	0	0	0	-0.08	-0.02	0	0	0	0	0	0
8/29/2024 14:38	57003	WHHI_T2	14	14	0	1.06	1.42	0.36	0	0	0	0	0	0	0	0
8/29/2024 14:39	51702	OBER_T1	2	2	0	1	1.45	0.45	-0.81	-0.78	1	1	0	600	600	0
8/29/2024 14:39	57104	SPHI_T2	0	0	0	0	0	0	-1.88	-1.88	1	1	0	900	900	0
8/29/2024 14:39	57003	WHHI_T2	14	14	0	1.06	1.42	0.36	0	0	0	0	0	0	0	0
8/29/2024 14:39	57004	WHHI_T2	0	0	0	0	0	0	-0.08	-0.02	0	0	0	0	0	0
8/29/2024 14:39	53801	MBRG_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/29/2024 14:39	52006	LING_T2	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 14:39	52004	LING_T2	2	3	1	4.15	2.97	-1.18	0.62	0.6	0	0	0	0	0	0
8/29/2024 14:39	57704	PAXT_T2	0	0	0	0	0	0	0.03	-0.02	1	1	0	900	900	0
8/29/2024 14:39	53802	MBRG_T2	0	0	0	0	0	0	1.19	0.97	0	0	0	0	0	0
8/29/2024 14:39	64101	REFR_T1	10	11	1	1.82	2.7	0.88	0.03	0.02	0	0	0	0	0	0
8/29/2024 14:39	53501	EVIL_T2	7	9	2	0.51	0.8	0.29	-0.01	-0.01	3	3	0	1400	1400	0
8/29/2024 14:39	52002	LING_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 14:39	57106	SPHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/29/2024 14:39	57101	SPHI_T2	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
8/29/2024 14:40	47401	PENS_T1	2	8	6	0.45	0.83	0.38	-0.54	0.36	0	0	0	0	0	0
8/29/2024 14:40	47402	PENS_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 14:40	57003	WHHI_T2	14	14	0	1.06	1.42	0.36	0	0	0	0	0	0	0	0
8/29/2024 14:40	64101	REFR_T1	10	11	1	1.82	2.7	0.88	0.03	0.02	0	0	0	0	0	0
8/29/2024 14:40	57004	WHHI_T2	0	0	0	0	0	0	-0.08	-0.02	0	0	0	0	0	0
8/29/2024 14:40	47403	PENS_T1	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
8/29/2024 14:41	57106	SPHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/29/2024 14:41	47403	PENS_T1	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
8/29/2024 14:41	44301	BEAV_T2	2	4	2	0.35	0	-0.35	0.4	0.32	1	1	0	600	600	0
8/29/2024 14:41	57101	SPHI_T2	0	6	6	0	0.12	0.12	-0.48	-0.48	0	0	0	0	0	0
8/29/2024 14:41	47402	PENS_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 14:41	64101	REFR_T1	10	11	1	1.82	2.7	0.88	0.03	0.02	0	0	0	0	0	0
8/29/2024 14:41	47401	PENS_T1	2	8	6	0.45	0.83	0.38	-0.54	0.36	0	0	0	0	0	0
8/29/2024 14:42	29401	BELT_T1	38	54	16	0.25	0.27	0.02	0	0	1	1	0	900	900	0
8/29/2024 14:42	29402	BELT_T1	29	42	13	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
8/29/2024 14:42	51904	COPA_T1	0	6	6	0	0.36	0.36	0	0	0	0	0	0	0	0
8/29/2024 14:42	51604	DUKE_T2	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
8/29/2024 14:42	64101	REFR_T1	10	11	1	1.82	2.7	0.88	0.11	0.07	0	0	0	0	0	0
8/29/2024 14:42	46002	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 14:42	43101	SMIL_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/29/2024 14:42	57502	LAWN_T3	0	5	5	0	0.4	0.4	0.31	0.39	0	0	0	0	0	0
8/29/2024 14:42	61701	ELIZ_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
8/29/2024 14:42	16103	BING_T2	0	0	0	0	0	0	-1.32	-1.29	2	2	0	1500	1500	0
8/29/2024 14:42	16101	BING_T2	0	3	3	0	0.45	0.45	0	0	0	0	0	0	0	0
8/29/2024 14:42	46206	DANV_T2	47	52	5	0.52	0.51	-0.01	2.35	2.37	2	2	0	2100	2100	0
8/29/2024 14:42	46203	DANV_T2	5	2	-3	1.52	3.7	2.18	-0.86	-0.84	0	0	0	0	0	0
8/29/2024 14:42	43102	SMIL_T2	0	0	0	0	0	0	-0.29	-0.07	1	1	0	600	600	0
8/29/2024 14:42	60701	BREC_T1	6	7	1	1.2	1.05	-0.15	0.67	0.13	2	2	0	1200	1200	0
8/29/2024 14:42	51902	COPA_T1	0	0	0	0	0	0	-2.17	-2.16	1	1	0	1200	1200	0
8/29/2024 14:42	43103	SMIL_T2	0	0	0	0	0	0	-0.21	-0.37	0	0	0	0	0	0
8/29/2024 14:42	57506	LAWN_T3	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 14:42	61703	ELIZ_T1	0	0	0	0	0	0	-2.27	-2.26	2	2	0	2100	2100	0
8/29/2024 14:42	46004	BERW_T2	1	2	1	0.2	0.5	0.3	0.51	0.53	0	0	0	0	0	0
8/29/2024 14:42	44301	BEAV_T2	2	4	2	0.35	0	-0.35	0	0	0	0	0	0	0	0
8/29/2024 14:43	41301	FISH_T1	2	3	1	1.2	0.97	-0.23	0.12	0.13	0	0	0	0	0	0
8/29/2024 14:43	60701	BREC_T1	6	7	1	1.2	1.05	-0.15	2.01	0.4	6	6	0	3600	3600	0
8/29/2024 14:43	41902	REED_T1	5	25	20	0.66	0.62	-0.04	0	0	0	0	0	0	0	0
8/29/2024 14:43	59101	WALK_T2	0	0	0	0	0	0	1.29	1.26	3	3	0	1800	1800	0
8/29/2024 14:43	10702	CATA_T2	0	1	1	0	0.1	0.1	-0.44	-0.45	0	0	0	0	0	0
8/29/2024 14:43	41901	REED_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 14:43	41903	REED_T1	4	4	0	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
8/29/2024 14:43	64101	REFR_T1	10	11	1	1.82	2.7	0.88	0.03	0.02	0	0	0	0	0	0
8/29/2024 14:44	46203	DANV_T2	5	2	-3	1.52	3.7	2.18	-0.86	-0.84	0	0	0	0	0	0
8/29/2024 14:44	44301	BEAV_T2	2	4	2	0.35	0	-0.35	0.4	0.32	1	1	0	600	600	0
8/29/2024 14:44	46206	DANV_T2	47	52	5	0.52	0.51	-0.01	0	0	0	0	0	0	0	0
8/29/2024 14:45	62102	ELAN_T1	0	0	0	0	0	0	0.88	0.89	0	0	0	0	0	0
8/29/2024 14:45	60701	BREC_T1	7	4	-3	1.31	1.05	-0.26	0.67	0.13	2	2	0	1200	1200	0
8/29/2024 14:45	10702	CATA_T2	1	1	0	0.1	0.1	0	-0.44	-0.45	0	0	0	0	0	0
8/29/2024 14:45	59101	WALK_T2	0	0	0	0	0	0	2.58	2.52	6	6	0	3600	3600	0
8/29/2024 14:46	10702	CATA_T2	1	1	0	0.1	0.1	0	-0.44	-0.45	0	0	0	0	0	0
8/29/2024 14:46	46203	DANV_T2	1	5	4	7	1.62	-5.38	0	0	0	0	0	0	0	0
8/29/2024 14:46	46206	DANV_T2	51	52	1	0.58	0.42	-0.16	2.35	2.37	2	2	0	2100	2100	0
8/29/2024 14:46	29402	BELT_T1	42	9	-33	0.5	1.16	0.66	0	0	0	0	0	0	0	0
8/29/2024 14:46	29401	BELT_T1	50	36	-14	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
8/29/2024 14:47	23201	HIRU_T2	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
8/29/2024 14:47	50502	MECH_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
8/29/2024 14:47	62102	ELAN_T1	0	0	0	0	0	0	0.88	0.89	0	0	0	0	0	0
8/29/2024 14:47	45801	HEGI_T1	0	0	0	0	0	0	-0.02	-0.01	1	1	0	900	900	0
8/29/2024 14:47	53502	EVIL_T2	0	0	0	0	0	0	-0.54	-0.61	3	3	0	2100	2100	0
8/29/2024 14:47	53501	EVIL_T2	9	2	-7	0.73	1.5	0.77	-0.01	-0.01	3	3	0	1400	1400	0
8/29/2024 14:47	50506	MECH_T1	0	0	0	0	0	0	1.17	0.83	3	3	0	2700	2700	0
8/29/2024 14:47	41301	FISH_T1	3	2	-1	0.97	1.3	0.33	0	0	0	0	0	0	0	0
8/29/2024 14:47	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
8/29/2024 14:48	12002	HATF_T1	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
8/29/2024 14:48	12001	HATF_T1	0	0	0	0	0	0	3.38	2.7	2	2	0	1200	1200	0
8/29/2024 14:48	53501	EVIL_T2	9	2	-7	0.73	1.5	0.77	-0.01	-0.01	3	3	0	1400	1400	0
8/29/2024 14:48	56501	ROCK_T2	7	8	1	0.37	0.36	-0.01	-3.04	-2.94	0	0	0	0	0	0
8/29/2024 14:48	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/29/2024 14:48	40101	HUNT_T2	16	31	15	0.38	0.23	-0.15	-1.08	-1.2	0	0	0	0	0	0
8/29/2024 14:49	56501	ROCK_T2	7	8	1	0.37	0.36	-0.01	-1.52	-1.47	0	0	0	0	0	0
8/29/2024 14:49	43201	MVIL_T2	0	0	0	0	0	0	0.04	-0.09	0	0	0	0	0	0
8/29/2024 14:49	43202	MVIL_T2	2	3	1	0.45	0.17	-0.28	0	0	0	0	0	0	0	0
8/29/2024 14:51	53501	EVIL_T2	9	2	-7	0.73	1.5	0.77	-0.01	-0.01	3	3	0	1400	1400	0
8/29/2024 14:52	58402	MORO_T1	2	0	-2	0.95	0	-0.95	0	0	0	0	0	0	0	0
8/29/2024 14:52	53501	EVIL_T2	9	2	-7	0.73	1.5	0.77	-0.01	-0.01	3	3	0	1400	1400	0
8/29/2024 14:52	58401	MORO_T1	25	40	15	0.65	0.59	-0.06	-1.54	-1.49	2	2	0	1500	1500	0
8/29/2024 14:53	58402	MORO_T1	2	0	-2	0.95	0	-0.95	0	0	0	0	0	0	0	0
8/29/2024 14:53	58401	MORO_T1	25	40	15	0.65	0.59	-0.06	-1.54	-1.49	2	2	0	1500	1500	0
8/29/2024 14:54	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 14:54	45402	WBLO_T2	3	22	19	0.27	0.23	-0.04	-0.77	-0.82	1	1	0	900	900	0
8/29/2024 14:54	53501	EVIL_T2	9	2	-7	0.73	1.5	0.77	-0.01	-0.01	6	6	0	2800	2800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/29/2024 14:54	56501	ROCK_T2	7	8	1	0.37	0.36	-0.01	-1.47	-1.51	0	0	0	0	0	0
8/29/2024 14:55	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 14:55	61402	SLIT_T1	2	4	2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/29/2024 14:56	47402	PENS_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
8/29/2024 14:56	47401	PENS_T1	3	8	5	0.87	0.63	-0.24	0.73	0.94	0	0	0	0	0	0
8/29/2024 14:56	41901	REED_T1	1	2	1	1.4	0.1	-1.3	0	0	0	0	0	0	0	0
8/29/2024 14:56	41902	REED_T1	25	22	-3	0.58	0.59	0.01	0.77	0.71	1	1	0	900	900	0
8/29/2024 14:56	47403	PENS_T1	1	2	1	1	0.8	-0.2	0	0	0	0	0	0	0	0
8/29/2024 14:56	41903	REED_T1	4	1	-3	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
8/29/2024 14:56	59003	MIFF_T1	1	6	5	0.6	0.2	-0.4	-0.36	-0.48	0	0	0	0	0	0
8/29/2024 14:57	64201	KINZ_T1	394	286	-108	0.75	0.37	-0.38	0	0	0	0	0	0	0	0
8/29/2024 14:57	64203	KINZ_T1	162	102	-60	0.6	0.76	0.16	0.88	0.86	3	3	0	2100	2100	0
8/29/2024 14:57	64204	KINZ_T1	21	10	-11	0.47	0.98	0.51	0	0	0	0	0	0	0	0
8/29/2024 14:57	64202	KINZ_T1	54	42	-12	0.87	0.35	-0.52	0	0	0	0	0	0	0	0
8/29/2024 14:58	29402	BELT_T1	42	9	-33	0.5	1.16	0.66	0	0	0	0	0	0	0	0
8/29/2024 14:58	66504	SMAN_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 14:58	66505	SMAN_T2	70	99	29	0.39	0.41	0.02	0.58	0.72	4	4	0	2300	2300	0
8/29/2024 14:58	29401	BELT_T1	50	36	-14	0.27	0.24	-0.03	0	0	1	1	0	900	900	0
8/29/2024 14:59	66505	SMAN_T2	70	99	29	0.39	0.41	0.02	0	0	0	0	0	0	0	0
8/29/2024 14:59	24105	EHAZ_T1	4	4	0	5.9	5.9	0	0	0	0	0	0	0	0	0
8/29/2024 14:59	46206	DANV_T2	51	52	1	0.58	0.42	-0.16	0	0	0	0	0	0	0	0
8/29/2024 14:59	66504	SMAN_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 14:59	24102	EHAZ_T1	0	1	1	0	0.2	0.2	0.27	0.26	0	0	0	0	0	0
8/29/2024 14:59	24101	EHAZ_T1	21	20	-1	1.01	0.27	-0.74	0	0	0	0	0	0	0	0
8/29/2024 14:59	46203	DANV_T2	1	5	4	7	1.62	-5.38	-0.84	-0.9	0	0	0	0	0	0
8/29/2024 15:00	11804	FRAN_T1	147	73	-74	0.72	0.6	-0.12	1.88	1.8	0	0	0	0	0	0
8/29/2024 15:01	44201	POIN_T1	0	0	0	0	0	0	-1.01	-1.01	2	2	0	2100	2100	0
8/29/2024 15:01	53903	HALI_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/29/2024 15:01	53902	HALI_T2	1	1	0	4	4.4	0.4	-0.69	-0.75	0	0	0	0	0	0
8/29/2024 15:02	53903	HALI_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/29/2024 15:02	44201	POIN_T1	0	0	0	0	0	0	-1.01	-1.01	2	2	0	2100	2100	0
8/29/2024 15:02	66505	SMAN_T2	76	120	44	0.45	0.5	0.05	0.58	0.72	4	4	0	2300	2300	0
8/29/2024 15:02	53902	HALI_T2	1	1	0	4	4.4	0.4	-0.35	-0.37	0	0	0	0	0	0
8/29/2024 15:02	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 15:03	44201	POIN_T1	0	0	0	0	0	0	-2.01	-2.02	4	4	0	4200	4200	0
8/29/2024 15:03	44801	EDAN_T2	21	21	0	0.39	0.34	-0.05	0	0	0	0	0	0	0	0
8/29/2024 15:03	53902	HALI_T2	1	1	0	4	4.4	0.4	-0.35	-0.37	0	0	0	0	0	0
8/29/2024 15:03	53903	HALI_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/29/2024 15:03	44802	EDAN_T2	0	0	0	0	0	0	-1.36	-1.37	0	0	0	0	0	0
8/29/2024 15:04	44201	POIN_T1	0	0	0	0	0	0	-1.01	-1.01	2	2	0	2100	2100	0
8/29/2024 15:07	42201	SHEN_T2	0	2	2	0	0.2	0.2	0.18	0.17	1	1	0	600	600	0
8/29/2024 15:09	45303	WBER_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/29/2024 15:09	42201	SHEN_T2	0	2	2	0	0.2	0.2	0.18	0.17	1	1	0	600	600	0
8/29/2024 15:09	45302	WBER_T2	0	0	0	0	0	0	1.48	1.41	0	0	0	0	0	0
8/29/2024 15:09	64101	REFR_T1	11	11	0	2.5	1.31	-1.19	0.12	0.11	0	0	0	0	0	0
8/29/2024 15:10	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 15:10	64101	REFR_T1	11	11	0	2.5	1.31	-1.19	0.06	0.06	0	0	0	0	0	0
8/29/2024 15:12	45303	WBER_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/29/2024 15:12	64101	REFR_T1	11	11	0	2.5	1.31	-1.19	0.06	0.06	0	0	0	0	0	0
8/29/2024 15:12	41902	REED_T1	19	26	7	0.68	0.48	-0.2	0.71	0.68	1	1	0	900	900	0
8/29/2024 15:12	45302	WBER_T2	0	0	0	0	0	0	1.48	1.41	0	0	0	0	0	0
8/29/2024 15:12	41903	REED_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/29/2024 15:12	41901	REED_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/29/2024 15:13	53601	DALM_T2	2	2	0	0.85	0.55	-0.3	-0.86	-0.1	2	1	-1	1500	600	-900
8/29/2024 15:13	64101	REFR_T1	11	11	0	2.5	1.31	-1.19	0.06	0.06	0	0	0	0	0	0
8/29/2024 15:14	41902	REED_T1	19	26	7	0.68	0.48	-0.2	0	0	0	0	0	0	0	0
8/29/2024 15:14	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 15:14	46206	DANV_T2	52	40	-12	0.57	0.46	-0.11	2.31	2.32	2	2	0	2100	2100	0
8/29/2024 15:14	41903	REED_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/29/2024 15:14	41901	REED_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/29/2024 15:14	46203	DANV_T2	2	5	3	3.7	1.6	-2.1	-0.9	-0.87	0	0	0	0	0	0
8/29/2024 15:15	66504	SMAN_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/29/2024 15:15	66505	SMAN_T2	98	120	22	0.51	0.54	0.03	0	0	0	0	0	0	0	0
8/29/2024 15:16	46206	DANV_T2	38	45	7	0.46	0.48	0.02	0	0	0	0	0	0	0	0
8/29/2024 15:16	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 15:16	63501	HEID_TBK1-2	49	50	1	2.28	1.88	-0.4	0.36	0.26	1	1	0	900	900	0
8/29/2024 15:16	46203	DANV_T2	5	5	0	1.6	1.54	-0.06	-0.9	-0.87	0	0	0	0	0	0
8/29/2024 15:18	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 15:18	63501	HEID_TBK1-2	49	50	1	2.28	1.88	-0.4	0.36	0.26	1	1	0	900	900	0
8/29/2024 15:18	46203	DANV_T2	5	5	0	1.6	1.54	-0.06	0	0	0	0	0	0	0	0
8/29/2024 15:18	46206	DANV_T2	38	45	7	0.46	0.48	0.02	2.31	2.32	2	2	0	2100	2100	0
8/29/2024 15:19	44703	MUNC_T2	0	0	0	0	0	0	1.31	1.26	0	0	0	0	0	0
8/29/2024 15:23	67103	SPRI_T1	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
8/29/2024 15:23	59301	MCAL_T1	16	32	16	0.78	0.79	0.01	-1.38	-1.36	1	1	0	600	600	0
8/29/2024 15:24	55001	NEWP_T1	1	13	12	1.1	0.38	-0.72	0	0	0	0	0	0	0	0
8/29/2024 15:24	55002	NEWP_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
8/29/2024 15:25	53801	MBRG_T2	4	1	-3	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
8/29/2024 15:25	53802	MBRG_T2	0	0	0	0	0	0	0.93	0.71	0	0	0	0	0	0
8/29/2024 15:26	47401	PENS_T1	7	8	1	0.63	0.75	0.12	0.39	-0.54	0	0	0	0	0	0
8/29/2024 15:26	47402	PENS_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 15:26	47403	PENS_T1	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
8/29/2024 15:28	41901	REED_T1	2	1	-1	0.65	0.3	-0.35	0	0	0	0	0	0	0	0
8/29/2024 15:28	41903	REED_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/29/2024 15:28	41902	REED_T1	17	75	58	0.63	0.55	-0.08	0.68	0.85	1	1	0	900	900	0
8/29/2024 15:29	51004	NHAR_T1	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0	0
8/29/2024 15:29	51003	NHAR_T1	0	0	0	0	0	0	-2.39	-2.33	1	1	0	1200	1200	0
8/29/2024 15:29	64101	REFR_T1	11	10	-1	1.21	1.94	0.73	0.06	0.1	0	0	0	0	0	0
8/29/2024 15:30	64101	REFR_T1	10	10	0	1.94	1.55	-0.39	0.11	0.19	0	0	0	0	0	0
8/29/2024 15:31	41602	CLEV_T1	16	30	14	0.66	0.49	-0.17	0	0	1	1	0	600	600	0
8/29/2024 15:33	51204	MTON_T2	3	4	1	0.33	0.33	0	-1.05	-1.07	2	2	0	1500	1500	0
8/29/2024 15:34	20603	GRWO_T2	0	0	0	0	0	0	-0.34	-0.36	1	1	0	900	900	0
8/29/2024 15:34	20601	GRWO_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 15:35	64202	KINZ_T1	49	22	-27	0.54	0.5	-0.04	0	0	0	0	0	0	0	0
8/29/2024 15:35	64201	KINZ_T1	405	138	-267	0.78	0.38	-0.4	-0.5	-0.71	5	5	0	3300	3300	0
8/29/2024 15:35	64203	KINZ_T1	92	33	-59	0.71	1.46	0.75	0	0	0	0	0	0	0	0
8/29/2024 15:35	64204	KINZ_T1	8	3	-5	0.59	0.65	0.06	0	0	0	0	0	0	0	0
8/29/2024 15:38	47001	HUGH_T2	4	3	-1	5.03	7.73	2.7	0.03	0.04	0	0	0	0	0	0
8/29/2024 15:39	47001	HUGH_T2	4	3	-1	5.03	7.73	2.7	0.03	0.04	0	0	0	0	0	0
8/29/2024 15:40	65601	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 15:40	65602	QVIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/29/2024 15:40	65604	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 15:40	65603	QVIL_T2	0	0	0	0	0	0	-0.4	-0.49	0	0	0	0	0	0
8/29/2024 15:41	47402	PENS_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 15:41	47401	PENS_T1	8	7	-1	0.53	0.75	0.22	-0.54	0.33	0	0	0	0	0	0
8/29/2024 15:41	47403	PENS_T1	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/29/2024 15:43	46001	BERW_T1	0	0	0	0	0	0	-2.08	-2.1	0	0	0	0	0	0
8/29/2024 15:43	41903	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/29/2024 15:43	13503	MCMI_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
8/29/2024 15:43	41902	REED_T1	26	156	130	0.56	0.48	-0.08	0.85	0.82	1	1	0	900	900	0
8/29/2024 15:43	41901	REED_T1	1	3	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/29/2024 15:45	52204	DEVO_T2	5	5	0	1.46	1.28	-0.18	0	0	0	0	0	0	0	0
8/29/2024 15:45	52202	DEVO_T2	0	0	0	0	0	0	-1.74	-1.74	0	0	0	0	0	0
8/29/2024 15:46	23203	HIRU_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
8/29/2024 15:46	46801	HEPB_T2	17	23	6	0.27	0.36	0.09	0	0	0	0	0	0	0	0
8/29/2024 15:46	51402	LYKE_T1	9	4	-5	0.11	0.1	-0.01	-2.4	-2.42	3	3	0	1800	1800	0
8/29/2024 15:46	20601	GRWO_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
8/29/2024 15:46	46803	HEPB_T2	1	2	1	0.5	0.4	-0.1	0.78	0.77	0	0	0	0	0	0
8/29/2024 15:46	20603	GRWO_T2	0	0	0	0	0	0	-0.36	-0.37	1	1	0	900	900	0
8/29/2024 15:48	46901	MNTG_T2	0	0	0	0	0	0	0.84	0.9	1	1	0	1200	1200	0
8/29/2024 15:50	46504	LOHA_T1	1	4	3	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 15:50	46101	MACI_T2	0	0	0	0	0	0	-0.03	-0.02	1	1	0	1200	1200	0
8/29/2024 15:50	46501	LOHA_T1	4	2	-2	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
8/29/2024 15:50	46506	LOHA_T1	0	0	0	0	0	0	0.34	0.38	0	0	0	0	0	0
8/29/2024 15:50	51402	LYKE_T1	9	4	-5	0.11	0.1	-0.01	-2.4	-2.42	3	3	0	1800	1800	0
8/29/2024 15:52	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 15:52	57401	SPAN_T1	7	5	-2	1.44	0.27	-1.17	0.07	0.2	1	1	0	600	600	0
8/29/2024 15:56	63804	HEMP_T1	1	1	0	8.2	7.6	-0.6	-0.76	-0.81	0	0	0	0	0	0
8/29/2024 15:59	11401	FARM_T1	0	0	0	0	0	0	-0.11	-0.14	0	0	0	0	0	0
8/29/2024 15:59	11406	FARM_T1	1	1	0	5	1.2	-3.8	0	0	0	0	0	0	0	0
8/29/2024 16:00	45902	AUBU_T1	0	2	2	0	0.25	0.25	-0.32	-0.35	1	1	0	600	600	0
8/29/2024 16:02	45902	AUBU_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
8/29/2024 16:02	45901	AUBU_T1	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
8/29/2024 16:05	13503	MCMI_T2	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
8/29/2024 16:05	51204	MTON_T2	4	0	-4	0.55	0	-0.55	-1.08	-1.11	2	2	0	1500	1500	0
8/29/2024 16:06	52101	MEIS_T1	2	2	0	1.35	1.25	-0.1	0	0	0	0	0	0	0	0
8/29/2024 16:06	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
8/29/2024 16:07	51401	LYKE_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
8/29/2024 16:07	51402	LYKE_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/29/2024 16:11	55001	NEWP_T1	7	6	-1	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
8/29/2024 16:11	55002	NEWP_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
8/29/2024 16:11	43101	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/29/2024 16:11	43103	SMIL_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
8/29/2024 16:16	46801	HEPB_T2	23	24	1	0.34	0.34	0	0.92	0.87	0	0	0	0	0	0
8/29/2024 16:16	46803	HEPB_T2	2	3	1	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
8/29/2024 16:16	57502	LAWN_T3	0	1	1	0	0.2	0.2	0.28	0.19	0	0	0	0	0	0
8/29/2024 16:17	49803	UNIV_T1	1	1	0	6	5.9	-0.1	-1.46	-1.44	0	0	0	0	0	0
8/29/2024 16:17	17401	FOHI_T1	0	0	0	0	0	0	-1.58	-1.61	0	0	0	0	0	0
8/29/2024 16:21	22903	HARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 16:22	54203	PENN_T1	5	7	2	0.9	0.84	-0.06	0	0	0	0	0	0	0	0
8/29/2024 16:22	54201	PENN_T1	4	9	5	0.68	0.52	-0.16	-1.46	-1.48	0	0	0	0	0	0
8/29/2024 16:24	61402	SLIT_T1	2	4	2	1.05	1.1	0.05	0	0	0	0	0	0	0	0
8/29/2024 16:24	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 16:26	17901	BART_T1	0	0	0	0	0	0	0.83	0.69	1	1	0	1200	1200	0
8/29/2024 16:27	54201	PENN_T1	4	9	5	0.68	0.52	-0.16	-1.46	-1.48	0	0	0	0	0	0
8/29/2024 16:27	17901	BART_T1	0	0	0	0	0	0	0.83	0.69	1	1	0	1200	1200	0
8/29/2024 16:27	46001	BERW_T1	0	0	0	0	0	0	-2.16	-0.99	0	0	0	0	0	0
8/29/2024 16:27	54203	PENN_T1	5	7	2	0.9	0.84	-0.06	0	0	0	0	0	0	0	0
8/29/2024 16:30	46001	BERW_T1	0	1	1	0	0	0	-2.16	-0.99	0	0	0	0	0	0
8/29/2024 16:31	24105	EHAZ_T1	4	4	0	6.05	5.48	-0.57	0	0	0	0	0	0	0	0
8/29/2024 16:31	24102	EHAZ_T1	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
8/29/2024 16:31	24104	EHAZ_T1	10	16	6	0.1	0.16	0.06	-1.95	-1.95	1	1	0	1200	1200	0
8/29/2024 16:32	64503	LAVI_T1	0	0	0	0	0	0	-0.95	-0.93	2	2	0	2100	2100	0
8/29/2024 16:32	64502	LAVI_T1	3	6	3	0.47	0.23	-0.24	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/29/2024 16:33	64502	LAVI_T1	3	6	3	0.47	0.23	-0.24	0	0	0	0	0	0	0	0
8/29/2024 16:33	64503	LAVI_T1	0	0	0	0	0	0	-0.95	-0.93	2	2	0	2100	2100	0
8/29/2024 16:37	64502	LAVI_T1	3	6	3	0.47	0.23	-0.24	0	0	0	0	0	0	0	0
8/29/2024 16:37	64503	LAVI_T1	0	0	0	0	0	0	-0.93	-1.2	2	2	0	2100	2100	0
8/29/2024 16:38	57003	WHHI_T2	1	12	11	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/29/2024 16:38	57001	WHHI_T2	0	0	0	0	0	0	-1.84	-1.97	1	1	0	900	900	0
8/29/2024 16:40	54203	PENN_T1	7	5	-2	0.84	0.98	0.14	-0.92	0.4	2	1	-1	1800	600	-1200
8/29/2024 16:40	54201	PENN_T1	9	5	-4	0.42	0.82	0.4	0	0	0	0	0	0	0	0
8/29/2024 16:42	40201	BEGA_T2	2	2	0	0.65	0	-0.65	0	0	0	0	0	0	0	0
8/29/2024 16:43	20403	ASHF_T2	0	0	0	0	0	0	0.97	0.94	0	0	0	0	0	0
8/29/2024 16:43	55001	NEWP_T1	6	1	-5	0.38	0.4	0.02	0	0	0	0	0	0	0	0
8/29/2024 16:43	55002	NEWP_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
8/29/2024 16:43	64101	REFR_T1	6	7	1	0.47	0.57	0.1	0.09	0.05	0	0	0	0	0	0
8/29/2024 16:43	20401	ASHF_T2	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
8/29/2024 16:44	45501	DERR_T2	0	1	1	0	0	0	1.67	1.82	4	4	0	3600	3600	0
8/29/2024 16:44	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 16:45	46203	DANV_T2	1	9	8	6.3	1.34	-4.96	0	0	0	0	0	0	0	0
8/29/2024 16:45	46204	DANV_T2	13	11	-2	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
8/29/2024 16:45	46206	DANV_T2	77	71	-6	0.95	0.66	-0.29	2.3	2.36	2	2	0	2100	2100	0
8/29/2024 16:45	11804	FRAN_T1	53	68	15	0.53	0.52	-0.01	1.52	1.51	0	0	0	0	0	0
8/29/2024 16:45	46205	DANV_T2	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/29/2024 16:46	46205	DANV_T2	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/29/2024 16:46	23201	HIRU_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 16:46	46204	DANV_T2	13	11	-2	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
8/29/2024 16:46	12602	MACA_T1	0	0	0	0	0	0	-2.27	-2.06	1	1	0	600	600	0
8/29/2024 16:46	12606	MACA_T1	7	0	-7	0.14	0	-0.14	0	0	0	0	0	0	0	0
8/29/2024 16:46	46206	DANV_T2	77	71	-6	0.95	0.66	-0.29	2.3	2.36	2	2	0	2100	2100	0
8/29/2024 16:46	23203	HIRU_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
8/29/2024 16:46	46203	DANV_T2	1	9	8	6.3	1.34	-4.96	0	0	0	0	0	0	0	0
8/29/2024 16:46	12601	MACA_T1	1	0	-1	3.8	0	-3.8	0	0	0	0	0	0	0	0
8/29/2024 16:47	13104	NHAM_T1	10	13	3	0.66	0.51	-0.15	0	0	0	0	0	0	0	0
8/29/2024 16:47	13101	NHAM_T1	0	0	0	0	0	0	-2.8	-2.7	4	4	0	4200	4200	0
8/29/2024 16:48	10705	CATA_T2	0	0	0	0	0	0	-0.63	-0.61	0	0	0	0	0	0
8/29/2024 16:48	23203	HIRU_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
8/29/2024 16:48	23201	HIRU_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 16:52	14801	TREI_T2	0	0	0	0	0	0	0.99	0.97	0	0	0	0	0	0
8/29/2024 16:57	15402	WALL_T1	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
8/29/2024 17:03	48902	FOSP_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
8/29/2024 17:04	51402	LYKE_T1	0	8	8	0	0.1	0.1	-1.75	-1.75	3	3	0	1800	1800	0
8/29/2024 17:09	40201	BEGA_T2	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
8/29/2024 17:14	40505	CRES_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 17:14	63305	GREE_T1	1	7	6	0	0.23	0.23	0	0	0	0	0	0	0	0
8/29/2024 17:14	40504	CRES_T1	0	0	0	0	0	0	-1.27	-1.28	0	0	0	0	0	0
8/29/2024 17:14	63304	GREE_T1	0	0	0	0	0	0	-1.97	-1.83	0	0	0	0	0	0
8/29/2024 17:18	63305	GREE_T1	5	7	2	0.18	0.23	0.05	0	0	0	0	0	0	0	0
8/29/2024 17:18	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 17:18	63304	GREE_T1	0	0	0	0	0	0	-1.97	-1.83	0	0	0	0	0	0
8/29/2024 17:18	40502	CRES_T2	2	7	5	0.2	0.19	-0.01	-0.5	-0.48	0	0	0	0	0	0
8/29/2024 17:29	24702	FLND_T2	1	0	-1	0.1	0	-0.1	0	0	1	1	0	1200	1200	0
8/29/2024 17:31	63804	HEMP_T1	1	1	0	7.5	7.4	-0.1	-0.84	-1.02	0	0	0	0	0	0
8/29/2024 17:32	10801	OHH_T1	0	0	0	0	0	0	-1.46	-1.53	3	3	0	2100	2100	0
8/29/2024 17:35	43202	MVIL_T2	35	26	-9	0.24	0.22	-0.02	-0.38	-0.38	0	0	0	0	0	0
8/29/2024 17:36	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 17:36	42302	MOWR_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
8/29/2024 17:36	43202	MVIL_T2	35	26	-9	0.24	0.22	-0.02	-0.38	-0.38	0	0	0	0	0	0
8/29/2024 17:40	61001	DONV_T1	0	0	0	0	0	0	-1.07	-1.13	0	0	0	0	0	0
8/29/2024 17:40	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 17:41	42503	ALTA_T2	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
8/29/2024 17:41	22003	BOHE_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/29/2024 17:41	22002	BOHE_T1	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
8/29/2024 17:41	55002	NEWP_T1	0	0	0	0	0	0	0.05	0.07	0	0	0	0	0	0
8/29/2024 17:41	55001	NEWP_T1	2	2	0	1.05	0.2	-0.85	0	0	0	0	0	0	0	0
8/29/2024 17:44	63306	GREE_T1	0	0	0	0	0	0	-1.61	-1.59	1	1	0	900	900	0
8/29/2024 17:44	63304	GREE_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
8/29/2024 17:44	63305	GREE_T1	7	15	8	0.21	0.31	0.1	0	0	0	0	0	0	0	0
8/29/2024 17:45	29402	BELT_T1	1	2	1	9.3	4.75	-4.55	0	0	0	0	0	0	0	0
8/29/2024 17:45	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 17:47	63804	HEMP_T1	1	1	0	7.5	7.2	-0.3	0	0	0	0	0	0	0	0
8/29/2024 17:47	63802	HEMP_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
8/29/2024 17:49	61302	EARL_T1	1	2	1	1.7	2.45	0.75	0	0	0	0	0	0	0	0
8/29/2024 17:49	61303	EARL_T1	2	4	2	0.6	0.83	0.23	0	0	0	0	0	0	0	0
8/29/2024 17:49	61306	EARL_T1	0	0	0	0	0	0	-1.11	-1.1	0	0	0	0	0	0
8/29/2024 17:50	57502	LAWN_T3	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
8/29/2024 17:52	61306	EARL_T1	0	0	0	0	0	0	-1.1	-1.14	0	0	0	0	0	0
8/29/2024 17:52	61303	EARL_T1	2	4	2	0.6	0.83	0.23	0	0	0	0	0	0	0	0
8/29/2024 17:52	61302	EARL_T1	1	2	1	1.7	2.45	0.75	0	0	0	0	0	0	0	0
8/29/2024 17:57	57505	LAWN_T3	0	0	0	0	0	0	0.28	0.39	0	0	0	0	0	0
8/29/2024 18:07	44901	SCOT_T2	0	0	0	0	0	0	0.6	0.49	0	0	0	0	0	0
8/29/2024 18:07	44902	SCOT_T2	0	0	0	0	0	0	-1.75	-1.74	0	0	0	0	0	0
8/29/2024 18:07	44905	SCOT_T1	2	3	1	0.15	0.35	0.2	0	0	0	0	0	0	0	0
8/29/2024 18:08	67702	WERN_T2	0	0	0	0	0	0	0.37	0.43	0	0	0	0	0	0
8/29/2024 18:13	20401	ASHF_T2	7	9	2	0.33	0.41	0.08	0	0	0	0	0	0	0	0
8/29/2024 18:13	43108	SMIL_T2	0	0	0	0	0	0	-1.78	-1.82	2	2	0	2400	2400	0
8/29/2024 18:13	20403	ASHF_T2	0	1	1	0	0	0	0.73	0.75	0	0	0	0	0	0
8/29/2024 18:13	43103	SMIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/29/2024 18:13	43101	SMIL_T2	1	2	1	1.6	1	-0.6	0	0	0	0	0	0	0	0
8/29/2024 18:13	20402	ASHF_T2	4	3	-1	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
8/29/2024 18:13	43105	SMIL_T2	2	7	5	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
8/29/2024 18:17	22905	HARW_T1	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
8/29/2024 18:17	22903	HARW_T1	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
8/29/2024 18:35	58201	NEWV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 18:35	58202	NEWV_T1	0	0	0	0	0	0	1.08	1.09	0	0	0	0	0	0
8/29/2024 18:38	53803	MBRG_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
8/29/2024 18:55	46501	LOHA_T1	4	4	0	2.08	0.7	-1.38	0	0	0	0	0	0	0	0
8/29/2024 18:55	46504	LOHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 18:55	46506	LOHA_T1	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
8/29/2024 19:20	46502	LOHA_T1	0	14	14	0	0.31	0.31	0	0	0	0	0	0	0	0
8/29/2024 19:20	46506	LOHA_T1	0	1	1	0	0.1	0.1	0.19	0.19	0	0	0	0	0	0
8/29/2024 19:20	46501	LOHA_T1	2	343	341	0.7	0	-0.7	0	0	0	0	0	0	0	0
8/29/2024 19:20	46504	LOHA_T1	0	139	139	0	0.41	0.41	0	0	0	0	0	0	0	0
8/29/2024 19:20	46505	LOHA_T1	0	7	7	0	0.2	0.2	0	0	0	0	0	0	0	0
8/29/2024 19:20	46503	LOHA_T1	0	44	44	0	0.48	0.48	0	0	0	0	0	0	0	0
8/29/2024 20:14	20403	ASHF_T2	0	0	0	0	0	0	0.74	0.63	0	0	0	0	0	0
8/29/2024 20:14	20401	ASHF_T2	3	6	3	0.23	0.4	0.17	0	0	0	0	0	0	0	0
8/29/2024 20:29	40601	PIGR_T1	1	3	2	1	0.1	-0.9	0	0	0	0	0	0	0	0
8/29/2024 20:29	40602	PIGR_T1	1	1	0	0.3	0.3	0	-1.11	-1.14	1	1	0	600	600	0
8/29/2024 20:40	55101	WERT_T1	0	0	0	0	0	0	-2.13	-2.27	4	4	0	3300	3300	0
8/29/2024 20:41	55101	WERT_T1	0	0	0	0	0	0	-6.39	-6.82	12	12	0	9900	9900	0
8/29/2024 20:42	55101	WERT_T1	0	0	0	0	0	0	-2.13	-2.27	4	4	0	3300	3300	0
8/29/2024 20:44	46903	MNTG_T2	0	0	0	0	0	0	0.41	0.35	1	1	0	600	600	0
8/29/2024 20:45	46506	LOHA_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
8/29/2024 20:45	46501	LOHA_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
8/29/2024 20:49	61702	ELIZ_T1	1	1	0	2.9	3.2	0.3	2.07	2.11	0	0	0	0	0	0
8/29/2024 20:55	63602	LETO_T1	0	0	0	0	0	0	-0.45	-0.42	1	1	0	600	600	0
8/29/2024 20:55	43202	MVIL_T2	6	52	46	0.17	0.36	0.19	-0.49	-0.5	0	0	0	0	0	0
8/29/2024 20:56	63804	HEMP_T1	1	1	0	6.4	6.1	-0.3	-1.19	-1.28	0	0	0	0	0	0
8/29/2024 20:56	64903	MILL_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/29/2024 20:56	63802	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 20:56	64902	MILL_T2	0	0	0	0	0	0	0.01	0	1	1	0	900	900	0
8/29/2024 20:57	64902	MILL_T2	0	0	0	0	0	0	0.01	0	1	1	0	900	900	0
8/29/2024 20:57	64903	MILL_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/29/2024 20:59	64902	MILL_T2	0	0	0	0	0	0	0.01	0	2	2	0	1800	1800	0
8/29/2024 20:59	43801	SWIL_T1	7	7	0	1	1.03	0.03	0	0	0	0	0	0	0	0
8/29/2024 20:59	43802	SWIL_T1	0	0	0	0	0	0	0.34	0.34	1	1	0	600	600	0
8/29/2024 20:59	61001	DONV_T1	0	0	0	0	0	0	0.95	0.77	0	0	0	0	0	0
8/29/2024 20:59	64903	MILL_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:00	40901	JESH_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
8/29/2024 21:00	46203	DANV_T2	9	9	0	1.34	1.42	0.08	-1.08	-1.18	0	0	0	0	0	0
8/29/2024 21:00	46206	DANV_T2	1	1	0	1.6	0.4	-1.2	0	0	0	0	0	0	0	0
8/29/2024 21:00	40902	JESH_T1	0	0	0	0	0	0	-0.75	-0.78	1	1	0	600	600	0
8/29/2024 21:00	64101	REFR_T1	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
8/29/2024 21:00	42001	MNVL_T2	69	112	43	0.47	0.5	0.03	0.36	0.34	0	0	0	0	0	0
8/29/2024 21:00	42002	MNVL_T2	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:01	64101	REFR_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
8/29/2024 21:01	45702	LIND_T2	0	0	0	0	0	0	-1.4	-1.42	0	0	0	0	0	0
8/29/2024 21:01	44902	SCOT_T2	0	0	0	0	0	0	0.35	0.43	0	0	0	0	0	0
8/29/2024 21:02	45702	LIND_T2	0	0	0	0	0	0	-1.4	-1.42	0	0	0	0	0	0
8/29/2024 21:03	45303	WBER_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/29/2024 21:03	45302	WBER_T2	0	0	0	0	0	0	1.32	1.31	0	0	0	0	0	0
8/29/2024 21:03	41202	KENM_T2	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
8/29/2024 21:04	46801	HEPB_T2	3	3	0	0.7	0.87	0.17	0.16	0.13	0	0	0	0	0	0
8/29/2024 21:04	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:04	66703	STRA_T1	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
8/29/2024 21:05	45702	LIND_T2	0	0	0	0	0	0	-1.4	-1.42	0	0	0	0	0	0
8/29/2024 21:05	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:05	64902	MILL_T2	0	0	0	0	0	0	0.01	0	2	2	0	1800	1800	0
8/29/2024 21:05	64101	REFR_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
8/29/2024 21:05	45501	DERR_T2	0	0	0	0	0	0	0.97	0.99	2	2	0	1800	1800	0
8/29/2024 21:05	64203	KINZ_T1	0	0	0	0	0	0	-0.71	-0.12	2	1	-1	900	600	-300
8/29/2024 21:05	46801	HEPB_T2	3	3	0	0.7	0.87	0.17	0.16	0.13	0	0	0	0	0	0
8/29/2024 21:05	63602	LETO_T1	0	0	0	0	0	0	-0.45	-0.42	1	1	0	600	600	0
8/29/2024 21:05	64204	KINZ_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
8/29/2024 21:05	64202	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/29/2024 21:05	64201	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/29/2024 21:06	46801	HEPB_T2	3	3	0	0.7	0.87	0.17	0	0	0	0	0	0	0	0
8/29/2024 21:06	46803	HEPB_T2	0	1	1	0	0.1	0.1	0.62	0.62	0	0	0	0	0	0
8/29/2024 21:06	64101	REFR_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
8/29/2024 21:07	46301	ROHR_T1	166	209	43	0.4	0.41	0.01	0.39	0.36	0	0	0	0	0	0
8/29/2024 21:07	43202	MVIL_T2	48	53	5	0.36	0.41	0.05	0	0	0	0	0	0	0	0
8/29/2024 21:07	43201	MVIL_T2	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
8/29/2024 21:07	43102	SMIL_T2	3	1	-2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:07	43103	SMIL_T2	0	1	1	0	0	0	-0.47	-0.5	0	0	0	0	0	0
8/29/2024 21:07	46302	ROHR_T1	2	5	3	2.6	1.52	-1.08	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/29/2024 21:08	43202	MVIL_T2	48	53	5	0.36	0.41	0.05	-0.5	-0.5	0	0	0	0	0	0
8/29/2024 21:08	45501	DERR_T2	0	0	0	0	0	0	0.99	0.79	2	2	0	1800	1800	0
8/29/2024 21:08	62102	ELAN_T1	0	0	0	0	0	0	1.58	1.48	0	0	0	0	0	0
8/29/2024 21:08	65004	NEFF_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
8/29/2024 21:09	45501	DERR_T2	0	0	0	0	0	0	0.99	0.79	2	2	0	1800	1800	0
8/29/2024 21:09	63305	GREE_T1	15	15	0	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
8/29/2024 21:09	41202	KENM_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
8/29/2024 21:09	63306	GREE_T1	0	0	0	0	0	0	-1.84	-1.87	1	1	0	900	900	0
8/29/2024 21:09	43202	MVIL_T2	48	53	5	0.36	0.41	0.05	-0.5	-0.5	0	0	0	0	0	0
8/29/2024 21:09	63301	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:09	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/29/2024 21:10	43108	SMIL_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
8/29/2024 21:10	21703	SUBU_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
8/29/2024 21:10	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:10	21702	SUBU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:10	21206	ECAR_T2	1	2	1	8.1	8	-0.1	0.5	0.53	0	0	0	0	0	0
8/29/2024 21:10	43103	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:10	43102	SMIL_T2	3	1	-2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:10	21701	SUBU_T1	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:10	64101	REFR_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
8/29/2024 21:10	21705	SUBU_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
8/29/2024 21:10	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:11	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/29/2024 21:11	45501	DERR_T2	0	0	0	0	0	0	0.99	0.79	2	2	0	1800	1800	0
8/29/2024 21:11	44701	MUNC_T2	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
8/29/2024 21:11	44801	EDAN_T2	69	132	63	0.37	0.38	0.01	0	0	0	0	0	0	0	0
8/29/2024 21:11	43802	SWIL_T1	0	0	0	0	0	0	0.34	0.3	1	1	0	600	600	0
8/29/2024 21:11	43103	SMIL_T2	0	1	1	0	0	0	-0.47	-0.5	0	0	0	0	0	0
8/29/2024 21:11	44703	MUNC_T2	0	3	3	0	0.27	0.27	0.97	0.96	0	0	0	0	0	0
8/29/2024 21:11	23102	MOSC_T2	0	0	0	0	0	0	-0.41	-0.53	2	2	0	1800	1800	0
8/29/2024 21:11	44802	EDAN_T2	0	0	0	0	0	0	-1.66	-1.65	0	0	0	0	0	0
8/29/2024 21:11	45502	DERR_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
8/29/2024 21:11	17901	BART_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:11	44702	MUNC_T2	16	21	5	0.17	0.28	0.11	0	0	0	0	0	0	0	0
8/29/2024 21:11	64101	REFR_T1	0	0	0	0	0	0	0.87	0.83	0	0	0	0	0	0
8/29/2024 21:11	41202	KENM_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
8/29/2024 21:11	43202	MVIL_T2	48	53	5	0.36	0.41	0.05	-0.5	-0.5	0	0	0	0	0	0
8/29/2024 21:11	43102	SMIL_T2	3	1	-2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:11	43801	SWIL_T1	6	15	9	1.13	0.57	-0.56	0	0	0	0	0	0	0	0
8/29/2024 21:12	44802	EDAN_T2	0	0	0	0	0	0	-1.66	-1.65	0	0	0	0	0	0
8/29/2024 21:12	44801	EDAN_T2	69	132	63	0.37	0.38	0.01	0	0	0	0	0	0	0	0
8/29/2024 21:13	64101	REFR_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
8/29/2024 21:13	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/29/2024 21:13	46901	MNTG_T2	0	0	0	0	0	0	0.8	0.79	1	1	0	1200	1200	0
8/29/2024 21:13	57401	SPAN_T1	0	0	0	0	0	0	-0.47	-0.55	1	1	0	600	600	0
8/29/2024 21:14	67503	WEWI_T2	1	1	0	4.9	5.5	0.6	1.06	1.04	0	0	0	0	0	0
8/29/2024 21:14	11401	FARM_T1	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
8/29/2024 21:14	11406	FARM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:14	11604	CEAL_T1	4	0	-4	0.28	0	-0.28	0	0	0	0	0	0	0	0
8/29/2024 21:14	44802	EDAN_T2	0	0	0	0	0	0	-1.66	-1.65	0	0	0	0	0	0
8/29/2024 21:14	15603	NSTR_T2	0	0	0	0	0	0	-0.16	-0.14	0	0	0	0	0	0
8/29/2024 21:14	47001	HUGH_T2	3	3	0	8.07	8.43	0.36	-0.25	-0.43	0	0	0	0	0	0
8/29/2024 21:14	11405	FARM_T1	1	1	0	5	4.4	-0.6	0	0	0	0	0	0	0	0
8/29/2024 21:14	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/29/2024 21:14	44801	EDAN_T2	69	132	63	0.37	0.38	0.01	0	0	0	0	0	0	0	0
8/29/2024 21:14	46001	BERW_T1	0	0	0	0	0	0	-0.54	-0.61	0	0	0	0	0	0
8/29/2024 21:14	17901	BART_T1	0	0	0	0	0	0	0.25	0.26	1	1	0	1200	1200	0
8/29/2024 21:15	43102	SMIL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/29/2024 21:15	43103	SMIL_T2	1	0	-1	0.2	0	-0.2	-0.94	-1.01	0	0	0	0	0	0
8/29/2024 21:15	46206	DANV_T2	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
8/29/2024 21:15	41702	LOGA_T2	2	38	36	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:15	47502	NECO_T1	1	1	0	0.5	0.5	0	0.95	0.95	0	0	0	0	0	0
8/29/2024 21:15	46205	DANV_T2	0	0	0	0	0	0	-0.57	-0.63	1	1	0	1200	1200	0
8/29/2024 21:15	45502	DERR_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
8/29/2024 21:15	66702	STRA_T1	0	0	0	0	0	0	-0.06	-0.11	2	2	0	1500	1500	0
8/29/2024 21:15	46203	DANV_T2	9	1	-8	1.42	5.6	4.18	0	0	0	0	0	0	0	0
8/29/2024 21:16	64203	KINZ_T1	0	0	0	0	0	0	-0.12	-0.08	1	1	0	600	600	0
8/29/2024 21:16	64202	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/29/2024 21:16	64204	KINZ_T1	1	2	1	0.8	1	0.2	0	0	0	0	0	0	0	0
8/29/2024 21:16	20601	GRWO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:16	61301	EARL_T1	0	0	0	0	0	0	-1	-1	2	2	0	1800	1800	0
8/29/2024 21:16	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:16	45402	WBLO_T2	14	33	19	0.3	0.27	-0.03	-1.12	-1.23	1	1	0	900	900	0
8/29/2024 21:16	15203	SPAR_T2	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
8/29/2024 21:16	27604	PIRI_T1	0	0	0	0	0	0	0.91	0.87	0	0	0	0	0	0
8/29/2024 21:16	44902	SCOT_T2	0	7	7	0	0.1	0.1	-1.86	-1.88	0	0	0	0	0	0
8/29/2024 21:16	23202	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
8/29/2024 21:16	64101	REFR_T1	0	0	0	0	0	0	0.87	0.83	0	0	0	0	0	0
8/29/2024 21:16	20603	GRWO_T2	8	21	13	0.13	0.28	0.15	-0.45	-0.44	1	1	0	900	900	0
8/29/2024 21:16	64201	KINZ_T1	1	1	0	0.1	0.3	0.2	-1.03	-1.05	4	4	0	2100	2100	0
8/29/2024 21:16	22003	BOHE_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
8/29/2024 21:16	45501	DERR_T2	0	0	0	0	0	0	1.98	1.58	4	4	0	3600	3600	0
8/29/2024 21:16	48302	ORWI_T2	2	2	0	0.85	1.2	0.35	-0.38	-0.41	0	0	0	0	0	0
8/29/2024 21:16	49803	UNIV_T1	1	1	0	5.7	5.5	-0.2	-1.79	-1.86	0	0	0	0	0	0
8/29/2024 21:16	23201	HIRU_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
8/29/2024 21:17	24105	EHAZ_T1	4	4	0	7.05	7.3	0.25	0	0	0	0	0	0	0	0
8/29/2024 21:17	24103	EHAZ_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
8/29/2024 21:17	13806	SALI_T1	0	0	0	0	0	0	0.09	0.07	1	1	0	1200	1200	0
8/29/2024 21:17	47502	NECO_T1	1	1	0	0.5	0.5	0	0.95	0.95	0	0	0	0	0	0
8/29/2024 21:17	24101	EHAZ_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:17	45501	DERR_T2	0	0	0	0	0	0	0.99	0.79	2	2	0	1800	1800	0
8/29/2024 21:17	65001	NEFF_T2	0	0	0	0	0	0	-0.25	-0.35	1	1	0	1200	1200	0
8/29/2024 21:17	24102	EHAZ_T1	2	3	1	0.6	0.4	-0.2	0.65	0.57	0	0	0	0	0	0
8/29/2024 21:17	12606	MACA_T1	0	0	0	0	0	0	0.23	0.2	1	1	0	900	900	0
8/29/2024 21:18	43103	SMIL_T2	1	0	-1	0.2	0	-0.2	-0.47	-0.5	0	0	0	0	0	0
8/29/2024 21:18	43102	SMIL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/29/2024 21:18	22905	HARW_T1	13	14	1	0.33	0.34	0.01	0	0	0	0	0	0	0	0
8/29/2024 21:18	39601	LNFD_T1	14	0	-14	0.51	0	-0.51	0	0	0	0	0	0	0	0
8/29/2024 21:18	64204	KINZ_T1	1	2	1	0.8	1	0.2	0	0	0	0	0	0	0	0
8/29/2024 21:18	42601	TUSC_T1	0	0	0	0	0	0	0.02	-0.04	2	2	0	1800	1800	0
8/29/2024 21:18	64201	KINZ_T1	1	1	0	0.1	0.3	0.2	-1.03	-1.05	4	4	0	2100	2100	0
8/29/2024 21:18	65001	NEFF_T2	0	0	0	0	0	0	-0.25	-0.35	1	1	0	1200	1200	0
8/29/2024 21:18	64202	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/29/2024 21:18	22903	HARW_T1	7	14	7	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 21:19	12602	MACA_T1	0	0	0	0	0	0	-1.54	-1.52	1	1	0	600	600	0
8/29/2024 21:19	24105	EHAZ_T1	4	4	0	7.05	7.3	0.25	0	0	0	0	0	0	0	0
8/29/2024 21:19	64202	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/29/2024 21:19	40201	BEGA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:19	64204	KINZ_T1	1	2	1	0.8	1	0.2	0	0	0	0	0	0	0	0
8/29/2024 21:19	64201	KINZ_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/29/2024 21:19	23203	HIRU_T2	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
8/29/2024 21:19	45501	DERR_T2	0	0	0	0	0	0	0.99	0.79	2	2	0	1800	1800	0
8/29/2024 21:19	24104	EHAZ_T1	0	0	0	0	0	0	-0.7	-0.7	1	1	0	1200	1200	0
8/29/2024 21:19	64203	KINZ_T1	0	0	0	0	0	0	-0.12	-0.08	1	1	0	600	600	0
8/29/2024 21:19	24102	EHAZ_T1	2	3	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
8/29/2024 21:19	24103	EHAZ_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
8/29/2024 21:19	24101	EHAZ_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:19	67503	WEWI_T2	1	1	0	5.3	6.1	0.8	0.53	0.52	0	0	0	0	0	0
8/29/2024 21:20	67605	WARW_T1	2	3	1	0.65	1.07	0.42	0	0	0	0	0	0	0	0
8/29/2024 21:20	29402	BELT_T1	1	1	0	8.4	8.7	0.3	0	0	0	0	0	0	0	0
8/29/2024 21:20	64602	LEOL_T1	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
8/29/2024 21:20	43102	SMIL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/29/2024 21:20	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:20	67603	WARW_T1	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
8/29/2024 21:20	13806	SALI_T1	0	0	0	0	0	0	0.09	0.07	1	1	0	1200	1200	0
8/29/2024 21:20	43103	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 21:20	43108	SMIL_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
8/29/2024 21:20	13503	MCMI_T2	0	15	15	0	0.14	0.14	-0.78	-0.79	0	0	0	0	0	0
8/29/2024 21:20	27604	PIRI_T1	0	0	0	0	0	0	0.91	0.87	0	0	0	0	0	0
8/29/2024 21:20	25402	LAHA_T2	0	0	0	0	0	0	-0.82	-0.8	0	0	0	0	0	0
8/29/2024 21:20	61301	EARL_T1	0	0	0	0	0	0	-1	-1	2	2	0	1800	1800	0
8/29/2024 21:20	45501	DERR_T2	0	0	0	0	0	0	0.99	0.79	2	2	0	1800	1800	0
8/29/2024 21:20	65001	NEFF_T2	0	0	0	0	0	0	-0.25	-0.35	1	1	0	1200	1200	0
8/29/2024 21:21	12605	MACA_T1	0	0	0	0	0	0	0.96	0.95	0	0	0	0	0	0
8/29/2024 21:21	66703	STRA_T1	0	0	0	0	0	0	-1.08	-1.14	0	0	0	0	0	0
8/29/2024 21:21	47001	HUGH_T2	3	3	0	8.13	8.5	0.37	-0.43	-0.32	0	0	0	0	0	0
8/29/2024 21:21	64202	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/29/2024 21:21	22002	BOHE_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
8/29/2024 21:21	64201	KINZ_T1	1	1	0	0.1	0.3	0.2	-2.11	-0.99	8	8	0	4200	4200	0
8/29/2024 21:21	61303	EARL_T1	0	0	0	0	0	0	0.29	0.37	0	0	0	0	0	0
8/29/2024 21:21	61401	SHEN_T2	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
8/29/2024 21:21	44801	EDAN_T2	86	145	59	0.41	0.41	0	-2.71	-2.82	0	0	0	0	0	0
8/29/2024 21:21	13806	SALI_T1	0	0	0	0	0	0	0.07	0.08	1	1	0	1200	1200	0
8/29/2024 21:21	45501	DERR_T2	0	0	0	0	0	0	0.79	0.86	2	2	0	1800	1800	0
8/29/2024 21:21	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:21	65604	QIVL_T2	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
8/29/2024 21:21	64204	KINZ_T1	1	2	1	0.8	1	0.2	0	0	0	0	0	0	0	0
8/29/2024 21:21	23203	HIRU_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
8/29/2024 21:21	44903	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:21	22905	HARW_T1	13	14	1	0.33	0.34	0.01	-0.48	-0.49	0	0	0	0	0	0
8/29/2024 21:21	44802	EDAN_T2	0	0	0	0	0	0	-3.3	-3.3	0	0	0	0	0	0
8/29/2024 21:21	29402	BELT_T1	1	1	0	8.4	8.7	0.3	0	0	0	0	0	0	0	0
8/29/2024 21:21	46001	BERW_T1	0	0	0	0	0	0	-0.61	-0.63	0	0	0	0	0	0
8/29/2024 21:21	61302	EARL_T1	0	0	0	0	0	0	0.1	0.08	2	2	0	1800	1800	0
8/29/2024 21:21	22903	HARW_T1	7	14	7	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/29/2024 21:21	13501	MCMI_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
8/29/2024 21:21	17901	BART_T1	0	0	0	0	0	0	0.25	0.26	1	1	0	1200	1200	0
8/29/2024 21:21	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:21	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:22	64201	KINZ_T1	1	1	0	0.1	0.3	0.2	-1.05	-0.49	4	3	-1	2100	1500	-600
8/29/2024 21:22	64202	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/29/2024 21:22	64204	KINZ_T1	1	2	1	0.8	1	0.2	0	0	0	0	0	0	0	0
8/29/2024 21:22	25503	MADI_T1	0	52	52	0	0.16	0.16	-0.71	-0.73	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/29/2024 21:22	57001	WHIII_T2	0	0	0	0	0	0	-2.24	-2.17	2	2	0	1800	1800	0
8/29/2024 21:22	28704	HAML_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/29/2024 21:22	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:22	10702	CATA_T2	0	0	0	0	0	0	-0.33	-0.39	0	0	0	0	0	0
8/29/2024 21:22	28702	HAML_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
8/29/2024 21:22	57006	WHIII_T2	0	1	1	0	0.1	0.1	1.93	1.94	2	2	0	1200	1200	0
8/29/2024 21:22	25501	MADI_T1	3	4	1	0.87	1.13	0.26	0	0	0	0	0	0	0	0
8/29/2024 21:22	42201	SHEN_T2	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
8/29/2024 21:22	42601	TUSC_T1	0	0	0	0	0	0	-0.04	-0.05	2	2	0	1800	1800	0
8/29/2024 21:23	46301	ROHR_T1	165	214	49	0.4	0.44	0.04	0	0	0	0	0	0	0	0
8/29/2024 21:23	60101	COCA_T1	0	0	0	0	0	0	-0.47	-0.51	1	1	0	1200	1200	0
8/29/2024 21:23	23203	HIRU_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
8/29/2024 21:23	66703	STRA_T1	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
8/29/2024 21:23	64702	LITI_T2	0	0	0	0	0	0	0.02	-0.08	0	0	0	0	0	0
8/29/2024 21:23	57501	LAWN_T3	0	0	0	0	0	0	-1.38	-1.4	0	0	0	0	0	0
8/29/2024 21:23	46302	ROHR_T1	4	5	1	1.1	1.52	0.42	0.34	0.34	0	0	0	0	0	0
8/29/2024 21:24	29402	BELT_T1	1	1	0	8.4	8.7	0.3	0	0	0	0	0	0	0	0
8/29/2024 21:24	22805	HAUT_T2	0	0	0	0	0	0	-1.39	-1.41	1	1	0	1200	1200	0
8/29/2024 21:24	48902	FOSP_T2	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
8/29/2024 21:24	29401	BELT_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
8/29/2024 21:25	20601	GRWO_T2	0	2	2	0	0.1	0.1	0.91	0.87	0	0	0	0	0	0
8/29/2024 21:25	13905	SEID_T1	0	0	0	0	0	0	-0.67	-0.66	1	1	0	1200	1200	0
8/29/2024 21:25	45302	WBER_T2	0	0	0	0	0	0	1.26	1.21	0	0	0	0	0	0
8/29/2024 21:25	13101	NHAM_T1	0	0	0	0	0	0	-3.74	-3.81	4	4	0	4200	4200	0
8/29/2024 21:25	20603	GRWO_T2	8	21	13	0.13	0.28	0.15	0	0	0	0	0	0	0	0
8/29/2024 21:25	14404	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:25	12807	MICK_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
8/29/2024 21:25	14401	SSLA_T1	84	126	42	0.24	0.37	0.13	-0.69	-0.63	1	1	0	1200	1200	0
8/29/2024 21:25	60101	COCA_T1	0	0	0	0	0	0	-0.47	-0.51	1	1	0	1200	1200	0
8/29/2024 21:25	45303	WBER_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:25	65901	SAKR_T2	1	1	0	6.8	7.5	0.7	-0.1	-0.16	1	1	0	600	600	0
8/29/2024 21:25	10705	CATA_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
8/29/2024 21:25	12801	MICK_T1	0	0	0	0	0	0	-0.81	-0.85	1	1	0	600	600	0
8/29/2024 21:25	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:25	13104	NHAM_T1	11	12	1	0.9	0.87	-0.03	0	0	0	0	0	0	0	0
8/29/2024 21:26	44301	BEAV_T2	3	138	135	0.23	0	-0.23	0.65	-0.68	1	1	0	600	600	0
8/29/2024 21:26	20601	GRWO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:26	15702	TANN_T2	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
8/29/2024 21:26	67605	WARW_T1	2	3	1	0.65	1.07	0.42	-0.86	-0.86	0	0	0	0	0	0
8/29/2024 21:26	15703	TANN_T2	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
8/29/2024 21:26	29402	BELT_T1	1	1	0	8.4	8.7	0.3	0	0	0	0	0	0	0	0
8/29/2024 21:26	57002	WHIII_T2	0	0	0	0	0	0	-1.25	-1.36	0	0	0	0	0	0
8/29/2024 21:26	46203	DANV_T2	9	1	-8	1.42	5.6	4.18	-0.27	-0.28	0	0	0	0	0	0
8/29/2024 21:26	60101	COCA_T1	0	0	0	0	0	0	-0.47	-0.51	1	1	0	1200	1200	0
8/29/2024 21:26	46206	DANV_T2	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
8/29/2024 21:26	66703	STRA_T1	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
8/29/2024 21:26	24003	WIBA_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:26	46004	BERW_T2	0	0	0	0	0	0	0.23	0.27	0	0	0	0	0	0
8/29/2024 21:26	52004	LING_T2	2	2	0	4.85	5.25	0.4	0.07	0.06	0	0	0	0	0	0
8/29/2024 21:26	57006	WHIII_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:26	20603	GRWO_T2	8	21	13	0.13	0.28	0.15	-0.44	-0.46	1	1	0	900	900	0
8/29/2024 21:26	29401	BELT_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
8/29/2024 21:26	24001	WIBA_T1	0	1	1	0	0	0	0.28	0.27	0	0	0	0	0	0
8/29/2024 21:26	63403	HONY_T2	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
8/29/2024 21:27	61102	BERK_T5	0	0	0	0	0	0	0.14	0.19	1	1	0	300	300	0
8/29/2024 21:27	57006	WHIII_T2	0	1	1	0	0.1	0.1	1.93	1.94	2	2	0	1200	1200	0
8/29/2024 21:27	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:27	61303	EARL_T1	0	0	0	0	0	0	0.29	0.37	0	0	0	0	0	0
8/29/2024 21:27	64702	LITI_T2	0	0	0	0	0	0	0.02	-0.08	0	0	0	0	0	0
8/29/2024 21:27	44801	EDAN_T2	86	145	59	0.41	0.41	0	-1.36	-1.41	0	0	0	0	0	0
8/29/2024 21:27	49804	UNIV_T1	0	0	0	0	0	0	-0.13	-0.1	0	0	0	0	0	0
8/29/2024 21:27	13806	SALI_T1	0	0	0	0	0	0	0.07	0.08	1	1	0	1200	1200	0
8/29/2024 21:27	60101	COCA_T1	0	0	0	0	0	0	-0.94	-1.01	2	2	0	2400	2400	0
8/29/2024 21:27	54506	ENOL_T2	0	0	0	0	0	0	0.89	0.82	1	1	0	600	600	0
8/29/2024 21:27	54203	PENN_T1	5	18	13	1.02	0.69	-0.33	0	0	0	0	0	0	0	0
8/29/2024 21:27	54201	PENN_T1	9	24	15	0.69	0.54	-0.15	-3.46	-3.48	0	0	0	0	0	0
8/29/2024 21:27	46206	DANV_T2	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
8/29/2024 21:27	65603	QVIL_T2	0	0	0	0	0	0	-0.61	-0.66	0	0	0	0	0	0
8/29/2024 21:27	57106	SPHI_T2	3	3	0	0.63	0.7	0.07	0	0	0	0	0	0	0	0
8/29/2024 21:27	46203	DANV_T2	9	1	-8	1.42	5.6	4.18	-0.27	-0.28	0	0	0	0	0	0
8/29/2024 21:27	21501	CEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:27	57104	SPHI_T2	0	0	0	0	0	0	-0.34	-1.27	0	1	1	0	900	900
8/29/2024 21:27	49803	UNIV_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
8/29/2024 21:28	47101	MARL_T1	14	2	-12	0.69	1	0.31	-0.3	-0.51	0	0	0	0	0	0
8/29/2024 21:28	57704	PAXT_T2	0	0	0	0	0	0	0.53	0.46	1	1	0	900	900	0
8/29/2024 21:28	67602	WARW_T2	0	0	0	0	0	0	0.55	0.53	1	1	0	300	300	0
8/29/2024 21:28	61102	BERK_T5	0	0	0	0	0	0	0.14	0.19	1	1	0	300	300	0
8/29/2024 21:28	57401	SPAN_T1	0	0	0	0	0	0	-0.55	-0.46	1	1	0	600	600	0
8/29/2024 21:28	57104	SPHI_T2	0	0	0	0	0	0	-0.34	-1.27	0	1	1	0	900	900
8/29/2024 21:28	66402	ROBE_T1	0	0	0	0	0	0	-1.84	-1.81	2	2	0	1500	1500	0
8/29/2024 21:28	67702	WERN_T2	0	0	0	0	0	0	0.29	0.24	0	0	0	0	0	0
8/29/2024 21:28	57106	SPHI_T2	3	3	0	0.63	0.7	0.07	0	0	0	0	0	0	0	0
8/29/2024 21:28	22602	KIMB_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
8/29/2024 21:29	14801	TREI_T2	0	0	0	0	0	0	0.81	0.79	0	0	0	0	0	0
8/29/2024 21:29	55405	SHER_T1	9	11	2	0.41	0.66	0.25	-0.17	-0.17	0	0	0	0	0	0
8/29/2024 21:29	60101	COCA_T1	0	0	0	0	0	0	-0.47	-0.51	1	1	0	1200	1200	0
8/29/2024 21:29	12402	MILF_T1	2	3	1	0.25	0.65	0.4	0.87	0.95	0	0	0	0	0	0
8/29/2024 21:29	16101	BING_T2	0	0	0	0	0	0	0.75	0.72	0	0	0	0	0	0
8/29/2024 21:29	54201	PENN_T1	9	24	15	0.69	0.54	-0.15	0	0	0	0	0	0	0	0
8/29/2024 21:29	63403	HONY_T2	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
8/29/2024 21:29	66505	SMAN_T2	0	1	1	0	0.1	0.1	0.06	0.14	3	3	0	2100	2100	0
8/29/2024 21:29	16102	BING_T2	16	15	-1	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
8/29/2024 21:29	54203	PENN_T1	5	18	13	1.02	0.69	-0.33	0.73	0.69	0	0	0	0	0	0
8/29/2024 21:30	51003	NHAR_T1	0	0	0	0	0	0	-2.8	-2.81	1	1	0	1200	1200	0
8/29/2024 21:30	15402	WALL_T1	0	0	0	0	0	0	0.49	0.53	0	0	0	0	0	0
8/29/2024 21:30	51702	OBER_T1	2	2	0	1.95	1.85	-0.1	-0.27	-0.21	1	1	0	600	600	0
8/29/2024 21:30	13806	SALI_T1	0	0	0	0	0	0	0.07	0.08	1	1	0	1200	1200	0
8/29/2024 21:30	46206	DANV_T2	1	2	1	0.4	0.1	-0.3	1.52	1.51	2	2	0	2100	2100	0
8/29/2024 21:30	10702	CATA_T2	0	0	0	0	0	0	-0.33	-0.39	0	0	0	0	0	0
8/29/2024 21:30	61102	BERK_T5	0	0	0	0	0	0	0.14	0.19	1	1	0	300	300	0
8/29/2024 21:30	51004	NHAR_T1	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
8/29/2024 21:30	61701	ELIZ_T1	1	1	0	3.7	3.9	0.2	2.15	2.01	0	0	0	0	0	0
8/29/2024 21:30	51002	NHAR_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
8/29/2024 21:30	46203	DANV_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
8/29/2024 21:30	46001	BERW_T1	0	0	0	0	0	0	-0.61	-0.63	0	0	0	0	0	0
8/29/2024 21:31	57004	WHIII_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
8/29/2024 21:31	10801	CHHI_T1	0	0	0	0	0	0	-1.01	-1.08	2	2	0	1500	1500	0
8/29/2024 21:31	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:31	16103	BING_T2	0	0	0	0	0	0	-1.53	-1.62	2	2	0	1500	1500	0
8/29/2024 21:31	61001	DONV_T1	0	0	0	0	0	0	0.38	0.29	0	0	0	0	0	0
8/29/2024 21:31	50105	HARR_T3	6	6	0	7.35	7.35	0	0	0	0	0	0	0	0	0
8/29/2024 21:31	46101	MACI_T2	1	1	0	0.2	0.1	-0.1	0.77	0.76	0	0	0	0	0	0
8/29/2024 21:31	61102	BERK_T5	0	0	0	0	0	0	0.28	0.39	2	2	0	600	600	0
8/29/2024 21:31	57403	SPAN_T1	0	0	0	0	0	0	0.42	0.38	0	0	0	0	0	0
8/29/2024 21:31	42501	ALTA_T2	1	2	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:31	50107	HARR_T3	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:31	16102	BING_T2	15	2	-13	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
8/29/2024 21:31	64202	KINZ_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
8/29/2024 21:31	42503	ALTA_T2	0	1	1	0	0.1	0.1	-0.56	-0.57	0	0	0	0	0	0
8/29/2024 21:31	67602	WARW_T2	0	0	0	0	0	0	0.55	0.53	1	1	0	300	300	0
8/29/2024 21:31	64204	KINZ_T1	1	2	1	1	1.35	0.35	0	0	0	0	0	0	0	0
8/29/2024 21:31	64201	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/29/2024 21:31	50201	HARR_T3	2	2	0	4.85	4.75	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:31	50103	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/29/2024 21:31	57003	WHIII_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:31	64203	KINZ_T1	0	0	0	0	0	0	-0.08	-0.12	1	1	0	600	600	0
8/29/2024 21:31	57006	WHIII_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:31	41301	FISH_T1	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:31	67605	WARW_T1	3	3	0	0.9	1.07	0.17	-1.71	-1.72	0	0	0	0	0	0
8/29/2024 21:31	44201	POIN_T1	0	0	0	0	0	0	-1.32	-1.36	2	2	0	2100	2100	0
8/29/2024 21:32	20402	ASHF_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/29/2024 21:32	61102	BERK_T5	0	0	0	0	0	0	0.14	0.19	1	1	0	300	300	0
8/29/2024 21:32	61306	EARL_T1	0	0	0	0	0	0	-1.17	-1.17	0	0	0	0	0	0
8/29/2024 21:32	57401	SPAN_T1	0	0	0	0	0	0	-0.55	-0.46	1	1	0	600	600	0
8/29/2024 21:32	50107	HARR_T3	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:32	52204	DEVO_T2	4	3	-1	0.75	0.27	-0.48	0	0	0	0	0	0	0	0
8/29/2024 21:32	50105	HARR_T3	6	6	0	7.35	7.35	0	0	0	0	0	0	0	0	0
8/29/2024 21:32	66504	SMAN_T2	0	0	0	0	0	0	-1.46	-1.58	2	2	0	2400	2400	0
8/29/2024 21:32	20403	ASHF_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
8/29/2024 21:32	52202	DEVO_T2	0	0	0	0	0	0	-0.84	-0.86	0	0	0	0	0	0
8/29/2024 21:32	50103	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/29/2024 21:32	45902	AUBU_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
8/29/2024 21:32	44201	POIN_T1	0	0	0	0	0	0	-2.64	-2.73	4	4	0	4200	4200	0
8/29/2024 21:32	20401	ASHF_T2	5	7	2	0.44	0.46	0.02	0	0	0	0	0	0	0	0
8/29/2024 21:32	51702	OBER_T1	2	2	0	1.95	1.85	-0.1	-0.55	-0.41	2	2	0	1200	1200	0
8/29/2024 21:32	46206	DANV_T2	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
8/29/2024 21:32	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:32	22602	KIMB_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
8/29/2024 21:32	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0.13	0.28	6	6	0	4200	4200	0
8/29/2024 21:32	17401	FOHI_T1	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
8/29/2024 21:32	46102	MACI_T1	0	0	0	0	0	0	1.06	1.06	0	0	0	0	0	0
8/29/2024 21:32	57501	LAWN_T3	0	0	0	0	0	0	-1.38	-1.4	0	0	0	0	0	0
8/29/2024 21:32	56501	ROCK_T2	5	6	1	0.3	0.42	0.12	-1.07	-1.11	0	0	0	0	0	0
8/29/2024 21:32	45901	AUBU_T1	0	0	0	0	0	0	1.52	1.66	0	0	0	0	0	0
8/29/2024 21:32	46203	DANV_T2	1	1	0	5.6	5.6	0	-0.27	-0.28	0	0	0	0	0	0
8/29/2024 21:32	50201	HARR_T3	2	2	0	4.85	4.75	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:32	59201	THOM_T1	0	13	13	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:33	52501	PROG_T1	0	42	42	0	0.14	0.14	-0.87	-0.89	1	1	0	300	300	0
8/29/2024 21:33	56501	ROCK_T2	5	6	1	0.3	0.42	0.12	-1.07	-1.11	0	0	0	0	0	0
8/29/2024 21:33	46203	DANV_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
8/29/2024 21:33	45902	AUBU_T1	1	1	0	0.2	0.4	0.2	-1.59	-1.63	2	2	0	1200	1200	0
8/29/2024 21:33	64702	LITI_T2	0	0	0	0	0	0	0.02	-0.08	0	0	0	0	0	0
8/29/2024 21:33	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/29/2024 21:33	63802	HEMP_T1	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
8/29/2024 21:33	46206	DANV_T2	1	2	1	0.4	0.1	-0.3	1.52	1.51	2	2	0	2100	2100	0
8/29/2024 21:33	56504	ROCK_T2	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
8/29/2024 21:33	44201	POIN_T1	0	0	0	0	0	0	-1.32	-1.36	2	2	0	2100	2100	0
8/29/2024 21:33	13806	SALI_T1	0	0	0	0	0	0	0.07	0.08	1	1	0	1200	1200	0
8/29/2024 21:33	43202	MVIL_T2	52	56	4	0.41	0.5	0.09	-0.5	-0.51	0	0	0	0	0	0
8/29/2024 21:33	20401	ASHF_T2	5	7	2	0.44	0.46	0.02	0	0	0	0	0	0	0	0
8/29/2024 21:33	44801	EDAN_T2	130	173	43	0.37	0.43	0.06	0	0	0	0	0	0	0	0
8/29/2024 21:33	67602	WARW_T2	0	0	0	0	0	0	0.55	0.53	1	1	0	300	300	0
8/29/2024 21:33	63804	HEMP_T1	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
8/29/2024 21:33	57501	LAWN_T3	0	0	0	0	0	0	-1.38	-1.4	0	0	0	0	0	0
8/29/2024 21:33	67103	SPRI_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
8/29/2024 21:33	48302	ORWI_T2	2	2	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
8/29/2024 21:33	57401	SPAN_T1	0	0	0	0	0	0	-0.55	-0.46	1	1	0	600	600	0
8/29/2024 21:33	55101	WERT_T1	0	0	0	0	0	0	-2.43	-2.52	4	4	0	3300	3300	0
8/29/2024 21:33	20402	ASHF_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/29/2024 21:33	59201	THOM_T1	0	13	13	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:33	60101	COCA_T1	0	0	0	0	0	0	-0.47	-0.51	1	1	0	1200	1200	0
8/29/2024 21:33	44802	EDAN_T2	0	0	0	0	0	0	-1.65	-1.65	0	0	0	0	0	0
8/29/2024 21:33	20403	ASHF_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
8/29/2024 21:33	45901	AUBU_T1	0	0	0	0	0	0	1.52	1.66	0	0	0	0	0	0
8/29/2024 21:33	41301	FISH_T1	2	2	0	0.55	0.65	0.1	0.08	0.04	0	0	0	0	0	0
8/29/2024 21:34	57003	WHHI_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:34	20403	ASHF_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
8/29/2024 21:34	45902	AUBU_T1	1	1	0	0.2	0.4	0.2	-0.79	-0.82	1	1	0	600	600	0
8/29/2024 21:34	56501	ROCK_T2	5	6	1	0.3	0.42	0.12	-1.07	-1.11	0	0	0	0	0	0
8/29/2024 21:34	57201	ROSS_T1	0	0	0	0	0	0	-0.03	0.08	0	0	0	0	0	0
8/29/2024 21:34	10702	CATA_T2	0	0	0	0	0	0	-0.33	-0.39	0	0	0	0	0	0
8/29/2024 21:34	46203	DANV_T2	1	1	0	5.6	5.6	0	-0.54	-0.55	0	0	0	0	0	0
8/29/2024 21:34	46206	DANV_T2	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
8/29/2024 21:34	61102	BERK_T5	0	0	0	0	0	0	0.14	0.19	1	1	0	300	300	0
8/29/2024 21:34	20402	ASHF_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
8/29/2024 21:34	67602	WARW_T2	0	0	0	0	0	0	0.55	0.53	1	1	0	300	300	0
8/29/2024 21:34	57004	WHHI_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
8/29/2024 21:34	57501	LAWN_T3	0	0	0	0	0	0	-2.77	-2.81	0	0	0	0	0	0
8/29/2024 21:34	20401	ASHF_T2	5	7	2	0.44	0.46	0.02	0	0	0	0	0	0	0	0
8/29/2024 21:34	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:35	50201	HART_T3	2	2	0	4.85	4.75	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:35	67605	WARW_T1	3	3	0	0.9	1.07	0.17	-0.86	-0.86	0	0	0	0	0	0
8/29/2024 21:35	57101	SPHI_T2	0	0	0	0	0	0	0.71	0.74	0	0	0	0	0	0
8/29/2024 21:35	50105	HARR_T3	6	6	0	7.35	7.35	0	0	0	0	0	0	0	0	0
8/29/2024 21:35	46302	ROHR_T1	5	13	8	1.52	0.68	-0.84	0.34	0.34	0	0	0	0	0	0
8/29/2024 21:35	51702	OBER_T1	2	2	0	1.95	1.85	-0.1	-0.27	-0.21	1	1	0	600	600	0
8/29/2024 21:35	50107	HARR_T3	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:35	66703	STRA_T1	0	4	4	0	0.3	0.3	-0.54	-0.57	0	0	0	0	0	0
8/29/2024 21:35	50103	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/29/2024 21:35	40901	JESH_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:35	56501	ROCK_T2	5	6	1	0.3	0.42	0.12	-1.07	-1.11	0	0	0	0	0	0
8/29/2024 21:35	53903	HALI_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
8/29/2024 21:35	51204	MTON_T2	0	0	0	0	0	0	-1.29	-1.3	2	2	0	1500	1500	0
8/29/2024 21:35	56504	ROCK_T2	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
8/29/2024 21:35	67602	WARW_T2	0	0	0	0	0	0	1.1	1.05	2	2	0	600	600	0
8/29/2024 21:35	57106	SPHI_T2	3	3	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
8/29/2024 21:35	40902	JESH_T1	0	0	0	0	0	0	-0.79	-0.21	1	0	-1	600	0	-600
8/29/2024 21:35	53902	HALI_T2	1	1	0	4.8	5.4	0.6	-0.64	-0.71	0	0	0	0	0	0
8/29/2024 21:35	44201	POIN_T1	0	0	0	0	0	0	-1.32	-1.36	2	2	0	2100	2100	0
8/29/2024 21:35	46301	ROHR_T1	203	241	38	0.41	0.48	0.07	0	0	0	0	0	0	0	0
8/29/2024 21:35	45502	DERR_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
8/29/2024 21:35	53901	HALI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/29/2024 21:35	61002	DONV_T2	0	0	0	0	0	0	-0.53	-0.47	2	2	0	1200	1200	0
8/29/2024 21:36	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:36	57004	WHHI_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
8/29/2024 21:36	45902	AUBU_T1	1	1	0	0.2	0.4	0.2	-0.82	-0.85	1	1	0	600	600	0
8/29/2024 21:36	64503	LAVI_T1	0	0	0	0	0	0	-1.36	-1.44	1	1	0	1200	1200	0
8/29/2024 21:36	52403	GRPA_T2	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
8/29/2024 21:36	65205	PRIN_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:36	51904	COPA_T1	4	5	1	0.3	0.42	0.12	0	0	0	0	0	0	0	0
8/29/2024 21:36	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:36	66504	SMAN_T2	0	0	0	0	0	0	-0.79	-0.82	1	1	0	1200	1200	0
8/29/2024 21:36	61701	ELIZ_T1	1	1	0	3.7	3.9	0.2	2.01	1.81	0	0	0	0	0	0
8/29/2024 21:36	42701	AUGU_T1	1	1	0	0.7	0.9	0.2	0	0	2	2	0	1800	1800	0
8/29/2024 21:36	57003	WHHI_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:36	51902	COPA_T1	0	0	0	0	0	0	-1.43	-1.48	1	1	0	1200	1200	0
8/29/2024 21:36	45502	DERR_T2	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
8/29/2024 21:36	52402	GRPA_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
8/29/2024 21:36	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1200	1200	0
8/29/2024 21:37	13303	ORVI_T1	0	0	0	0	0	0	0.09	1.35	0	0	0	0	0	0
8/29/2024 21:37	50103	HARR_T3	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
8/29/2024 21:37	50201	HARR_T3	2	2	0	4.85	4.75	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:37	46206	DANV_T2	1	2	1	0.4	0.1	-0.3	3.01	4.05	4	4	0	4200	4200	0
8/29/2024 21:37	57502	LAWN_T3	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
8/29/2024 21:37	40101	HUNT_T2	1	1	0	0.4	0	-0.4	-1.24	-1.25	0	0	0	0	0	0
8/29/2024 21:37	61703	ELIZ_T1	0	0	0	0	0	0	-9.52	-7.31	8	4	-4	8400	3600	-4800
8/29/2024 21:37	45902	AUBU_T1	1	1	0	0.2	0.4	0.2	-0.82	-0.85	1	1	0	600	600	0
8/29/2024 21:37	60602	NMAN_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
8/29/2024 21:37	40504	CRES_T1	0	1	1	0	0.1	0.1	-1.58	-1.58	0	0	0	0	0	0
8/29/2024 21:37	53902	HALI_T2	1	1	0	4.8	5.4	0.6	-0.71	-0.65	0	0	0	0	0	0
8/29/2024 21:37	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
8/29/2024 21:37	64702	LITI_T2	0	0	0	0	0	0	-0.08	-0.04	0	0	0	0	0	0
8/29/2024 21:37	65503	MOJO_T2	0	0	0	0	0	0	-0.52	0.35	1	0	-1	900	0	-900
8/29/2024 21:37	51702	OBER_T1	2	2	0	1.95	1.85	-0.1	-0.21	-0.26	1	1	0	600	600	0
8/29/2024 21:37	53903	HALI_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
8/29/2024 21:37	50107	HARR_T3	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:37	61701	ELIZ_T1	1	1	0	3.7	3.9	0.2	2.01	1.81	0	0	0	0	0	0
8/29/2024 21:37	53901	HALI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/29/2024 21:37	61303	EARL_T1	0	0	0	0	0	0	0.37	0.29	0	0	0	0	0	0
8/29/2024 21:37	65502	MOJO_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:37	12302	LANA_T2	0	0	0	0	0	0	-2.43	-2.46	3	3	0	2700	2700	0
8/29/2024 21:37	50105	HARR_T3	6	6	0	7.35	7.35	0	0	0	0	0	0	0	0	0
8/29/2024 21:37	64503	LAVI_T1	0	0	0	0	0	0	-1.36	-1.44	1	1	0	1200	1200	0
8/29/2024 21:37	46203	DANV_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
8/29/2024 21:37	64601	LEOL_T1	0	0	0	0	0	0	-1.53	-0.28	1	0	-1	1200	0	-1200
8/29/2024 21:38	61002	DONV_T2	0	0	0	0	0	0	-0.47	-0.51	2	2	0	1200	1200	0
8/29/2024 21:38	51401	LYKE_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
8/29/2024 21:38	51702	OBER_T1	2	2	0	1.95	1.85	-0.1	-0.21	-0.26	1	1	0	600	600	0
8/29/2024 21:38	63802	HEMP_T1	0	0	0	0	0	0	1.05	0.96	0	0	0	0	0	0
8/29/2024 21:38	51402	LYKE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:38	42302	MOWR_T2	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
8/29/2024 21:38	57502	LAWN_T3	0	0	0	0	0	0	-0.17	-0.25	0	0	0	0	0	0
8/29/2024 21:38	40201	BEGA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:38	63501	HEID_TBK1-2	48	48	0	1.19	0.96	-0.23	0.03	-0.01	1	1	0	900	900	0
8/29/2024 21:38	56504	ROCK_T2	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
8/29/2024 21:38	63804	HEMP_T1	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
8/29/2024 21:38	56501	ROCK_T2	5	6	1	0.3	0.42	0.12	0	0	0	0	0	0	0	0
8/29/2024 21:38	57501	LAWN_T3	0	0	0	0	0	0	-1.4	-1.38	0	0	0	0	0	0
8/29/2024 21:38	41901	REED_T1	9	9	0	1.16	1.2	0.04	0	0	0	0	0	0	0	0
8/29/2024 21:39	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:39	42903	MIDD_T2	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
8/29/2024 21:39	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:39	61402	SLIT_T1	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
8/29/2024 21:39	40802	EXCH_T2	1	3	2	0.1	0.1	0	-0.09	-0.11	0	0	0	0	0	0
8/29/2024 21:39	46203	DANV_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
8/29/2024 21:39	57501	LAWN_T3	0	0	0	0	0	0	-1.4	-1.38	0	0	0	0	0	0
8/29/2024 21:39	40101	HUNT_T2	1	1	0	0.4	0	-0.4	-1.24	-1.25	0	0	0	0	0	0
8/29/2024 21:39	40201	BEGA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:39	46206	DANV_T2	1	2	1	0.4	0.1	-0.3	1.51	2.03	2	2	0	2100	2100	0
8/29/2024 21:39	42902	MIDD_T2	0	0	0	0	0	0	-0.66	-0.68	1	1	0	600	600	0
8/29/2024 21:39	55002	NEWP_T1	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
8/29/2024 21:39	40801	EXCH_T2	3	3	0	0.3	0.33	0.03	0	0	0	0	0	0	0	0
8/29/2024 21:39	55001	NEWP_T1	0	0	0	0	0	0	-0.49	-0.53	1	1	0	600	600	0
8/29/2024 21:40	40801	EXCH_T2	3	3	0	0.3	0.33	0.03	0	0	0	0	0	0	0	0
8/29/2024 21:40	53902	HALI_T2	1	1	0	4.8	5.4	0.6	-0.71	-0.65	0	0	0	0	0	0
8/29/2024 21:40	59301	MCAL_T1	2	3	1	0.4	1.3	0.9	-1.63	-1.66	1	1	0	600	600	0
8/29/2024 21:40	57502	LAWN_T3	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
8/29/2024 21:40	41901	REED_T1	9	9	0	1.16	1.2	0.04	0	0	0	0	0	0	0	0
8/29/2024 21:40	41902	REED_T1	0	0	0	0	0	0	0.43	0.34	1	1	0	900	900	0
8/29/2024 21:40	40802	EXCH_T2	1	3	2	0.1	0.1	0	-0.09	-0.11	0	0	0	0	0	0
8/29/2024 21:40	51704	OBER_T1	0	0	0	0	0	0	-1.44	-1.45	1	1	0	1200	1200	0
8/29/2024 21:40	59302	MCAL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/29/2024 21:40	53901	HALI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/29/2024 21:40	53903	HALI_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
8/29/2024 21:40	47401	PENS_T1	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
8/29/2024 21:40	51702	OBER_T1	2	2	0	1.95	1.85	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:41	63804	HEMP_T1	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
8/29/2024 21:41	47401	PENS_T1	0	0	0	0	0	0	-0.35	-0.43	0	0	0	0	0	0
8/29/2024 21:41	59302	MCAL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/29/2024 21:41	45902	AUBU_T1	1	1	0	0.2	0.4	0.2	-0.82	-0.85	1	1	0	600	600	0
8/29/2024 21:41	55001	NEWP_T1	0	0	0	0	0	0	-1.48	-1.59	3	3	0	1800	1800	0
8/29/2024 21:41	66502	SMAN_T2	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
8/29/2024 21:41	63802	HEMP_T1	0	0	0	0	0	0	0.53	0.48	0	0	0	0	0	0
8/29/2024 21:41	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:41	51204	MTON_T2	0	0	0	0	0	0	-1.3	-1.3	2	2	0	1500	1500	0
8/29/2024 21:41	42201	SHEN_T2	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
8/29/2024 21:41	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:41	59301	MCAL_T1	2	3	1	0.4	1.3	0.9	-1.63	-1.66	1	1	0	600	600	0
8/29/2024 21:41	55002	NEWP_T1	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
8/29/2024 21:41	13806	SALI_T1	0	0	0	0	0	0	0.08	0.02	1	1	0	1200	1200	0
8/29/2024 21:41	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1200	1200	0
8/29/2024 21:42	57003	WHHI_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:42	47401	PENS_T1	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
8/29/2024 21:42	42903	MIDD_T2	2	2	0	0.8	0.85	0.05	-1.07	-1.11	1	1	0	1200	1200	0
8/29/2024 21:42	42902	MIDD_T2	0	0	0	0	0	0	-0.66	-0.68	1	1	0	600	600	0
8/29/2024 21:42	67605	WARW_T1	3	3	0	0.9	1.07	0.17	-0.86	-0.92	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/29/2024 21:42	52404	GRPA_T2	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
8/29/2024 21:42	65902	SAKR_T2	0	0	0	0	0	0	-1.1	-1.1	1	1	0	900	900	0
8/29/2024 21:42	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:42	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:42	45801	HEGI_T1	0	0	0	0	0	0	0.25	0.19	1	1	0	900	900	0
8/29/2024 21:42	40101	HUNT_T2	1	0	0	0.4	0	-0.4	-1.24	-1.25	0	0	0	0	0	0
8/29/2024 21:42	54701	NEBL_T1	1	1	0	1	0.8	-0.2	0	0	1	1	0	600	600	0
8/29/2024 21:42	57004	WHHI_T2	0	0	0	0	0	0	-0.14	-0.11	0	0	0	0	0	0
8/29/2024 21:42	42701	AUGU_T1	1	1	0	0.7	0.9	0.2	0	0	2	2	0	1800	1800	0
8/29/2024 21:42	64601	LEOL_T1	0	0	0	0	0	0	-3.05	-0.57	2	0	-2	2400	0	-2400
8/29/2024 21:42	50506	MECH_T1	0	0	0	0	0	0	0.96	0.91	0	0	0	0	0	0
8/29/2024 21:42	52402	GRPA_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
8/29/2024 21:42	51402	LYKE_T1	1	0	-1	0.1	0	-0.1	-1.89	-1.9	3	3	0	1800	1800	0
8/29/2024 21:42	41902	REED_T1	0	0	0	0	0	0	0.43	0.34	1	1	0	900	900	0
8/29/2024 21:42	65901	SAKR_T2	1	1	0	6.7	7.5	0.8	0	0	0	0	0	0	0	0
8/29/2024 21:42	47101	MARL_T1	2	1	-1	1.15	0.5	-0.65	-0.51	-0.46	0	0	0	0	0	0
8/29/2024 21:42	50502	MECH_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
8/29/2024 21:42	58401	MORO_T1	0	0	0	0	0	0	-3.24	-3.23	2	2	0	1200	1200	0
8/29/2024 21:42	64503	LAVI_T1	0	0	0	0	0	0	-1.36	-1.44	1	1	0	1200	1200	0
8/29/2024 21:42	41901	REED_T1	9	9	0	1.16	1.2	0.04	0	0	0	0	0	0	0	0
8/29/2024 21:43	40101	HUNT_T2	1	1	0	0.4	0	-0.4	-1.24	-1.25	0	0	0	0	0	0
8/29/2024 21:43	40201	BEGA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:43	47101	MARL_T1	2	1	-1	1.15	0.5	-0.65	-0.51	-0.46	0	0	0	0	0	0
8/29/2024 21:43	59302	MCAL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/29/2024 21:43	59301	MCAL_T1	2	3	1	0.4	1.3	0.9	0	0	0	0	0	0	0	0
8/29/2024 21:43	51402	LYKE_T1	1	0	-1	0.1	0	-0.1	-1.89	-1.9	3	3	0	1800	1800	0
8/29/2024 21:44	40802	EXCH_T2	1	3	2	0.1	0.1	0	-0.09	-0.11	0	0	0	0	0	0
8/29/2024 21:44	40801	EXCH_T2	3	3	0	0.3	0.33	0.03	0	0	0	0	0	0	0	0
8/29/2024 21:44	11804	FRAN_T1	0	0	0	0	0	0	1.01	0.97	0	0	0	0	0	0
8/29/2024 21:44	58202	NEWV_T1	0	0	0	0	0	0	0.53	0.44	0	0	0	0	0	0
8/29/2024 21:45	59102	WALK_T2	0	12	12	0	0.53	0.53	0	0	0	0	0	0	0	0
8/29/2024 21:45	47401	PENS_T1	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
8/29/2024 21:45	57106	SPHI_T2	3	3	0	0.7	1.23	0.53	0	0	0	0	0	0	0	0
8/29/2024 21:45	59101	WALK_T2	0	125	125	0	0.3	0.3	1.38	1.37	4	4	0	2400	2400	0
8/29/2024 21:45	65001	NEFF_T2	0	0	0	0	0	0	-0.47	-0.48	1	1	0	1200	1200	0
8/29/2024 21:45	57103	SPHI_T2	0	0	0	0	0	0	-0.4	-0.47	1	1	0	600	600	0
8/29/2024 21:46	42902	MIDD_T2	0	0	0	0	0	0	-1.98	-2.05	3	3	0	1800	1800	0
8/29/2024 21:46	58401	MORO_T1	0	0	0	0	0	0	-1.62	-1.61	1	1	0	600	600	0
8/29/2024 21:46	47401	PENS_T1	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
8/29/2024 21:46	47101	MARL_T1	1	1	0	1	0.5	-0.5	-0.51	-0.46	0	0	0	0	0	0
8/29/2024 21:46	42903	MIDD_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
8/29/2024 21:47	50502	MECH_T1	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
8/29/2024 21:47	50506	MECH_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
8/29/2024 21:48	47401	PENS_T1	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
8/29/2024 21:48	40504	CRES_T1	0	4	4	0	0.1	0.1	-1.58	-1.58	0	0	0	0	0	0
8/29/2024 21:48	59102	WALK_T2	0	12	12	0	0.53	0.53	0	0	0	0	0	0	0	0
8/29/2024 21:48	42902	MIDD_T2	0	0	0	0	0	0	-0.66	-0.68	1	1	0	600	600	0
8/29/2024 21:48	41902	REED_T1	0	3	3	0	0	0	0.43	0.34	1	1	0	900	900	0
8/29/2024 21:48	42903	MIDD_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
8/29/2024 21:48	41901	REED_T1	9	9	0	1.2	0.93	-0.27	0	0	0	0	0	0	0	0
8/29/2024 21:48	59101	WALK_T2	0	125	125	0	0.3	0.3	0.69	0.68	2	2	0	1200	1200	0
8/29/2024 21:48	58401	MORO_T1	0	0	0	0	0	0	-1.62	-1.61	1	1	0	600	600	0
8/29/2024 21:49	57401	SPAN_T1	1	3	2	9.3	3.03	-6.27	-0.46	-0.5	1	1	0	600	600	0
8/29/2024 21:50	63304	GREE_T1	0	0	0	0	0	0	-1.15	-1.2	0	0	0	0	0	0
8/29/2024 21:50	63305	GREE_T1	15	18	3	0.39	0.46	0.07	0	0	0	0	0	0	0	0
8/29/2024 21:50	63303	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:50	51402	LYKE_T1	0	0	0	0	0	0	-1.89	-1.9	3	3	0	1800	1800	0
8/29/2024 21:50	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-1.24	-1.25	0	0	0	0	0	0
8/29/2024 21:50	67602	WARW_T2	0	0	0	0	0	0	0.53	0.51	1	1	0	300	300	0
8/29/2024 21:51	60701	BREC_T1	0	0	0	0	0	0	-0.2	-0.24	1	1	0	600	600	0
8/29/2024 21:51	65004	NEFF_T2	0	0	0	0	0	0	-0.09	-0.15	0	0	0	0	0	0
8/29/2024 21:51	40501	CRES_T2	5	7	2	0.22	0.17	-0.05	0	0	0	0	0	0	0	0
8/29/2024 21:51	60101	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:51	40502	CRES_T2	19	28	9	0.42	0.37	-0.05	-0.92	-0.98	0	0	0	0	0	0
8/29/2024 21:52	53802	MBRG_T2	0	0	0	0	0	0	0.52	0.2	0	0	0	0	0	0
8/29/2024 21:52	63305	GREE_T1	15	18	3	0.39	0.46	0.07	0	0	0	0	0	0	0	0
8/29/2024 21:52	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
8/29/2024 21:52	67605	WARW_T1	3	3	0	1.07	0.57	-0.5	-0.92	-1.01	0	0	0	0	0	0
8/29/2024 21:52	63302	GREE_T1	0	0	0	0	0	0	0.73	0.67	0	0	0	0	0	0
8/29/2024 21:52	60701	BREC_T1	0	0	0	0	0	0	-0.41	-0.47	2	2	0	1200	1200	0
8/29/2024 21:52	53502	EVIL_T2	0	0	0	0	0	0	-0.62	-0.11	2	1	-1	1500	900	-600
8/29/2024 21:52	63501	HEID_TBK1-2	48	48	0	0.99	1.05	0.06	-0.01	0.05	1	1	0	900	900	0
8/29/2024 21:52	63303	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:53	60701	BREC_T1	0	0	0	0	0	0	-0.2	-0.24	1	1	0	600	600	0
8/29/2024 21:53	45802	HEGI_T2	1	0	-1	0.1	0	-0.1	1.7	1.52	0	0	0	0	0	0
8/29/2024 21:53	45801	HEGI_T1	0	0	0	0	0	0	0.19	0.18	1	1	0	900	900	0
8/29/2024 21:53	63303	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:53	53902	HALI_T2	1	1	0	5.4	5.2	-0.2	-0.65	-0.7	0	0	0	0	0	0
8/29/2024 21:53	53901	HALI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:53	67203	TEHI_T1	0	0	0	0	0	0	2.7	2.52	2	2	0	1500	1500	0
8/29/2024 21:53	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
8/29/2024 21:53	63305	GREE_T1	15	18	3	0.39	0.46	0.07	0	0	0	0	0	0	0	0
8/29/2024 21:53	56501	ROCK_T2	6	5	-1	0.42	0.34	-0.08	-0.62	-0.69	0	0	0	0	0	0
8/29/2024 21:53	63304	GREE_T1	0	0	0	0	0	0	-1.2	-1.23	0	0	0	0	0	0
8/29/2024 21:53	60101	COCA_T1	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
8/29/2024 21:53	52004	LING_T2	2	2	0	5.1	5.15	0.05	0.04	0.06	0	0	0	0	0	0
8/29/2024 21:53	67201	TEHI_T1	0	0	0	0	0	0	-0.22	-0.29	0	0	0	0	0	0
8/29/2024 21:53	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:53	65003	NEFF_T2	0	0	0	0	0	0	-1.54	-1.4	2	2	0	1800	1800	0
8/29/2024 21:53	64603	LEOL_T1	0	0	0	0	0	0	-0.5	-0.64	2	2	0	1200	1200	0
8/29/2024 21:53	53903	HALI_T2	2	2	0	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
8/29/2024 21:54	56501	ROCK_T2	6	5	-1	0.42	0.34	-0.08	-0.62	-0.69	0	0	0	0	0	0
8/29/2024 21:54	50201	HARR_T3	2	2	0	4.75	4.75	0	0	0	0	0	0	0	0	0
8/29/2024 21:54	50105	HARR_T3	6	6	0	7.35	7.6	0.25	0	0	0	0	0	0	0	0
8/29/2024 21:54	60101	COCA_T1	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
8/29/2024 21:54	62102	ELAN_T1	0	0	0	0	0	0	1.44	1.4	0	0	0	0	0	0
8/29/2024 21:54	63501	HEID_TBK1-2	48	48	0	0.99	1.05	0.06	-0.01	0.05	1	1	0	900	900	0
8/29/2024 21:54	50107	HARR_T3	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:55	57004	WHHI_T2	0	0	0	0	0	0	-0.11	-0.87	0	0	0	0	0	0
8/29/2024 21:55	57006	WHHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/29/2024 21:55	63501	HEID_TBK1-2	48	48	0	0.99	1.05	0.06	-0.01	0.05	1	1	0	900	900	0
8/29/2024 21:55	57003	WHHI_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:56	56501	ROCK_T2	6	5	-1	0.42	0.34	-0.08	-0.62	-0.69	0	0	0	0	0	0
8/29/2024 21:56	51306	WIND_T2	0	0	0	0	0	0	-0.78	0.46	0	0	0	0	0	0
8/29/2024 21:56	53802	MBRG_T2	0	0	0	0	0	0	0.52	0.2	0	0	0	0	0	0
8/29/2024 21:57	50103	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/29/2024 21:57	50105	HARR_T3	6	6	0	7.35	7.6	0.25	0	0	0	0	0	0	0	0
8/29/2024 21:57	50107	HARR_T3	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
8/29/2024 21:57	50201	HARR_T3	2	2	0	4.75	4.75	0	0	0	0	0	0	0	0	0
8/29/2024 21:57	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1200	1200	0
8/29/2024 21:57	53803	MBRG_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
8/29/2024 21:57	56501	ROCK_T2	6	5	-1	0.42	0.34	-0.08	-1.24	-1.37	0	0	0	0	0	0
8/29/2024 21:58	52004	LING_T2	2	2	0	5.1	5.15	0.05	0.04	0.06	0	0	0	0	0	0
8/29/2024 21:58	57106	SPHI_T2	3	3	0	0.7	1.23	0.53	0	0	0	0	0	0	0	0
8/29/2024 21:58	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
8/29/2024 21:58	56501	ROCK_T2	6	5	-1	0.42	0.34	-0.08	0	0	0	0	0	0	0	0
8/29/2024 21:58	52101	MEIS_T1	1	2	1	0.7	0.75	0.05	0	0	0	0	0	0	0	0
8/29/2024 21:58	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
8/29/2024 21:58	56504	ROCK_T2	0	0	0	0	0	0	-0.8	0.07	0	0	0	0	0	0
8/29/2024 21:58	55002	NEWP_T1	2	2	0	0.85	0.8	-0.05	-0.07	-0.09	0	0	0	0	0	0
8/29/2024 21:58	52402	GRPA_T2	3	3	0	0.23	0.17	-0.06	-0.4	-0.44	0	0	0	0	0	0
8/29/2024 21:58	55001	NEWP_T1	0	0	0	0	0	0	-0.53	-0.53	1	1	0	600	600	0
8/29/2024 21:58	57101	SPHI_T2	0	0	0	0	0	0	0.01	0.63	0	0	0	0	0	0
8/29/2024 21:59	52004	LING_T2	2	2	0	5.1	5.15	0.05	0.04	0.06	0	0	0	0	0	0
8/29/2024 21:59	55001	NEWP_T1	0	0	0	0	0	0	-0.53	-0.53	1	1	0	600	600	0
8/29/2024 21:59	56501	ROCK_T2	6	5	-1	0.42	0.34	-0.08	-0.62	-0.69	0	0	0	0	0	0
8/29/2024 21:59	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
8/29/2024 21:59	59201	THOM_T1	0	160	160	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:59	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 21:59	55002	NEWP_T1	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
8/29/2024 22:00	56504	ROCK_T2	0	0	0	0	0	0	-0.8	0.07	0	0	0	0	0	0
8/29/2024 22:00	55001	NEWP_T1	0	0	0	0	0	0	-0.53	-0.53	1	1	0	600	600	0
8/29/2024 22:00	56501	ROCK_T2	5	10	5	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
8/29/2024 22:00	55002	NEWP_T1	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
8/29/2024 22:00	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
8/29/2024 22:01	59101	WALK_T2	0	30	30	0	7.24	7.24	0.68	0.58	2	2	0	1200	1200	0
8/29/2024 22:01	59102	WALK_T2	0	10	10	0	0.53	0.53	0	0	0	0	0	0	0	0
8/29/2024 22:01	53901	HALI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/29/2024 22:01	53902	HALI_T2	1	1	0	5.2	4.5	-0.7	-0.65	-0.7	0	0	0	0	0	0
8/29/2024 22:01	53903	HALI_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
8/29/2024 22:02	53802	MBRG_T2	0	0	0	0	0	0	0.52	0.2	0	0	0	0	0	0
8/29/2024 22:02	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
8/29/2024 22:03	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
8/29/2024 22:07	50107	HARR_T3	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
8/29/2024 22:07	40504	CRES_T1	1	6	5	0.1	0.1	0	-1.64	-1.65	0	0	0	0	0	0
8/29/2024 22:07	50201	HARR_T3	2	1	-1	4.75	9.5	4.75	0	0	0	0	0	0	0	0
8/29/2024 22:07	50105	HARR_T3	6	0	0	7.6	7.55	-0.05	0	0	0	0	0	0	0	0
8/29/2024 22:07	50103	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/29/2024 22:08	44301	BEAV_T2	0	0	0	0	0	0	-0.64	-0.46	1	1	0	600	600	0
8/29/2024 22:08	40504	CRES_T1	1	6	5	0.1	0.1	0	-1.64	-1.65	0	0	0	0	0	0
8/29/2024 22:10	50107	HARR_T3	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
8/29/2024 22:10	50105	HARR_T3	6	6	0	7.6	7.55	-0.05	0	0	0	0	0	0	0	0
8/29/2024 22:10	50103	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/29/2024 22:10	50201	HARR_T3	2	1	-1	4.75	9.5	4.75	0	0	0	0	0	0	0	0
8/29/2024 22:12	10801	CHHI_T1	0	0	0	0	0	0	-1.11	-1.11	2	2	0	1500	1500	0
8/29/2024 22:21	51306	WIND_T2	0	0	0	0	0	0	0.46	0.4	0	0	0	0	0	0
8/29/2024 22:25	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2024 22:30	58702	ROSE_T2	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
8/29/2024 22:30	58706	ROSE_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
8/29/2024 22:30	58705	ROSE_T2	2	5	3	1.05	1.04	-0.01	0	0	0	0	0	0	0	0
8/29/2024 22:32	64204	KINZ_T1	1	2	1	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
8/29/2024 22:32	64203	KINZ_T1	0	0	0	0	0	0	-0.23	-0.28	1	1	0	600	600	0
8/29/2024 22:32	64202	KINZ_T1	3	2	-1	0.43	0.15	-0.28	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/29/2024 22:32	64201	KINZ_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
8/29/2024 23:39	61001	DONV_T1	0	0	0	0	0	0	0.32	0.27	0	0	0	0	0	0
8/29/2024 23:49	44301	BEAV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 0:46	60701	BREC_T1	0	0	0	0	0	0	-0.44	-0.43	1	1	0	600	600	0
8/30/2024 5:08	65901	SAKR_T2	1	1	0	7.5	7.1	-0.4	-0.54	-0.55	1	1	0	600	600	0
8/30/2024 7:27	21501	CEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/30/2024 8:03	45801	HEGI_T1	0	0	0	0	0	0	-0.59	0.04	1	1	0	900	900	0
8/30/2024 8:08	55101	WERT_T1	0	0	0	0	0	0	-2.08	-2.12	4	4	0	3300	3300	0
8/30/2024 8:18	63305	GREE_T1	0	4	4	0	0.15	0.15	-1.74	-1.7	1	1	0	900	900	0
8/30/2024 8:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 8:28	11903	ETEX_T1	0	0	0	0	0	0	0.54	0.64	0	0	0	0	0	0
8/30/2024 8:32	63305	GREE_T1	4	1	-3	0.15	0.2	0.05	-1.7	-1.71	1	1	0	900	900	0
8/30/2024 8:40	13101	NHAM_T1	0	0	0	0	0	0	-3.53	-3.48	4	4	0	4200	4200	0
8/30/2024 8:40	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 8:40	13104	NHAM_T1	1	0	-1	6.4	0	-6.4	0	0	0	0	0	0	0	0
8/30/2024 8:42	29402	BELT_T1	1	1	0	8.3	8.5	0.2	0	0	0	0	0	0	0	0
8/30/2024 8:42	29401	BELT_T1	21	34	13	0.11	0.16	0.05	0	0	1	1	0	900	900	0
8/30/2024 8:42	10705	CATA_T2	0	0	0	0	0	0	-1.14	-1.15	0	0	0	0	0	0
8/30/2024 8:46	12006	HATF_T1	0	0	0	0	0	0	0.96	0.96	1	1	0	1200	1200	0
8/30/2024 8:51	52502	PROG_T2	0	0	0	0	0	0	-0.52	-0.53	1	1	0	900	900	0
8/30/2024 8:53	52502	PROG_T2	0	0	0	0	0	0	-1.05	-1	2	2	0	1800	1800	0
8/30/2024 8:54	67804	WLAN_T1	0	0	0	0	0	0	-0.97	-0.95	0	0	0	0	0	0
8/30/2024 8:54	52502	PROG_T2	0	0	0	0	0	0	-0.53	-0.5	1	1	0	900	900	0
8/30/2024 8:55	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 8:55	51301	WIND_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 8:57	67505	WEWI_T1	0	0	0	0	0	0	0.12	0.05	1	1	0	900	900	0
8/30/2024 8:57	67805	WLAN_T1	0	0	0	0	0	0	-0.65	-0.6	0	0	0	0	0	0
8/30/2024 8:57	43301	WATS_T2	0	0	0	0	0	0	-0.5	-0.5	1	1	0	900	900	0
8/30/2024 8:58	67805	WLAN_T1	0	0	0	0	0	0	-0.65	-0.6	0	0	0	0	0	0
8/30/2024 9:01	62607	ENGL_T1	0	0	0	0	0	0	-0.82	-0.78	1	1	0	300	300	0
8/30/2024 9:02	53803	MBRG_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
8/30/2024 9:03	64503	LAVI_T1	0	0	0	0	0	0	-1.07	-1.12	1	1	0	1200	1200	0
8/30/2024 9:10	55405	SHER_T1	11	11	0	0.94	0.8	-0.14	-0.17	-0.17	0	0	0	0	0	0
8/30/2024 9:10	67503	WEWI_T2	1	1	0	8.3	7.6	-0.7	0	0	0	0	0	0	0	0
8/30/2024 9:10	67502	WEWI_T2	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
8/30/2024 9:13	16004	DORN_T1	0	0	0	0	0	0	-0.74	-0.72	1	1	0	1200	1200	0
8/30/2024 9:14	45802	HEGI_T2	4	34	30	0.38	0.28	-0.1	1.38	1.35	0	0	0	0	0	0
8/30/2024 9:15	45802	HEGI_T2	32	15	-17	0.39	0.1	-0.29	1.38	1.35	0	0	0	0	0	0
8/30/2024 9:16	63501	HEID_TBK1-2	45	48	3	0.56	0.55	-0.01	-0.13	-0.07	1	1	0	900	900	0
8/30/2024 9:17	63501	HEID_TBK1-2	45	48	3	0.56	0.55	-0.01	-0.13	-0.07	1	1	0	900	900	0
8/30/2024 9:17	54506	ENOL_T2	0	0	0	0	0	0	0.21	0.2	1	1	0	600	600	0
8/30/2024 9:18	64904	MILL_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
8/30/2024 9:19	64904	MILL_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
8/30/2024 9:19	64903	MILL_T2	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
8/30/2024 9:21	15203	SFAR_T2	2	0	-2	0.1	0	-0.1	-1	-1.01	0	0	0	0	0	0
8/30/2024 9:21	52502	PROG_T2	0	0	0	0	0	0	-0.5	-0.49	1	1	0	900	900	0
8/30/2024 9:21	64903	MILL_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
8/30/2024 9:22	61103	BERK_T5	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
8/30/2024 9:22	15203	SFAR_T2	2	0	-2	0.1	0	-0.1	-1	-1.01	0	0	0	0	0	0
8/30/2024 9:23	15203	SFAR_T2	2	0	-2	0.1	0	-0.1	-2	-2.01	0	0	0	0	0	0
8/30/2024 9:23	15204	SFAR_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
8/30/2024 9:23	52502	PROG_T2	0	0	0	0	0	0	-0.49	-0.47	1	1	0	900	900	0
8/30/2024 9:24	15203	SFAR_T2	2	0	-2	0.1	0	-0.1	-1	-1.01	0	0	0	0	0	0
8/30/2024 9:24	57403	SPAN_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
8/30/2024 9:24	57401	SPAN_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/30/2024 9:26	55101	WERT_T1	0	0	0	0	0	0	-2.01	-2.15	4	4	0	3300	3300	0
8/30/2024 9:26	67803	WLAN_T1	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
8/30/2024 9:26	15203	SFAR_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 9:26	15204	SFAR_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
8/30/2024 9:26	67804	WLAN_T1	0	0	0	0	0	0	-0.95	-0.93	0	0	0	0	0	0
8/30/2024 9:27	15203	SFAR_T2	2	0	-2	0.1	0	-0.1	-1	-1.01	0	0	0	0	0	0
8/30/2024 9:28	14204	EALL_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
8/30/2024 9:28	55101	WERT_T1	0	0	0	0	0	0	-2.01	-2.15	4	4	0	3300	3300	0
8/30/2024 9:29	67803	WLAN_T1	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
8/30/2024 9:30	64904	MILL_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
8/30/2024 9:33	50502	MECH_T1	1	1	0	2.4	2.3	-0.1	-0.27	-0.2	1	1	0	1200	1200	0
8/30/2024 9:33	50501	MECH_T1	4	4	0	0.8	0.83	0.03	0	0	0	0	0	0	0	0
8/30/2024 9:34	64101	REFR_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
8/30/2024 9:37	66701	STRA_T1	0	0	0	0	0	0	0.19	0.3	2	2	0	1200	1200	0
8/30/2024 9:38	43801	SWIL_T1	4	4	0	1.38	1.35	-0.03	0	0	0	0	0	0	0	0
8/30/2024 9:38	43802	SWIL_T1	0	0	0	0	0	0	0.03	0.02	1	1	0	600	600	0
8/30/2024 9:38	66703	STRA_T1	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
8/30/2024 9:39	66703	STRA_T1	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
8/30/2024 9:42	16004	DORN_T1	0	0	0	0	0	0	-1.51	-1.23	2	2	0	2400	2400	0
8/30/2024 9:45	67803	WLAN_T1	0	0	0	0	0	0	-0.71	-0.68	0	0	0	0	0	0
8/30/2024 9:54	57401	SPAN_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/30/2024 9:54	57403	SPAN_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
8/30/2024 9:54	15203	SFAR_T2	0	0	0	0	0	0	-0.95	-0.99	0	0	0	0	0	0
8/30/2024 10:00	21501	CEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/30/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.52	0.57	0	0	0	0	0	0
8/30/2024 10:00	40502	CRES_T2	0	2	2	0	0.15	0.15	-0.23	-0.27	0	0	0	0	0	0
8/30/2024 10:00	59003	MIFF_T1	0	1	1	0	0.1	0.1	-0.44	-0.35	0	0	0	0	0	0
8/30/2024 10:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 10:00	59002	MIFF_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/30/2024 10:00	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 10:00	52403	GRPA_T2	1	1	0	1.2	1.5	0.3	-0.56	-0.55	0	0	0	0	0	0
8/30/2024 10:03	12807	MICK_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
8/30/2024 10:03	12801	MICK_T1	0	0	0	0	0	0	-0.65	-0.68	1	1	0	600	600	0
8/30/2024 10:04	12802	MICK_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
8/30/2024 10:04	12807	MICK_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
8/30/2024 10:05	12801	MICK_T1	0	0	0	0	0	0	-0.65	-0.68	1	1	0	600	600	0
8/30/2024 10:05	12807	MICK_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
8/30/2024 10:05	46602	LACR_T1	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
8/30/2024 10:07	44201	POIN_T1	0	0	0	0	0	0	0.17	-0.78	2	2	0	2100	2100	0
8/30/2024 10:07	12802	MICK_T1	0	0	0	0	0	0	-0.84	-0.8	0	0	0	0	0	0
8/30/2024 10:07	64903	MILL_T2	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
8/30/2024 10:07	12807	MICK_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
8/30/2024 10:08	43801	SWIL_T1	4	4	0	1.38	1.4	0.02	0	0	0	0	0	0	0	0
8/30/2024 10:08	43802	SWIL_T1	0	0	0	0	0	0	0.06	0.07	1	1	0	600	600	0
8/30/2024 10:08	66505	SMAN_T2	0	0	0	0	0	0	0.46	0.33	2	2	0	1500	1500	0
8/30/2024 10:09	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/30/2024 10:09	66703	STRA_T1	0	0	0	0	0	0	-0.49	-0.43	0	0	0	0	0	0
8/30/2024 10:09	66701	STRA_T1	0	0	0	0	0	0	0.46	0.39	2	2	0	1200	1200	0
8/30/2024 10:10	43801	SWIL_T1	4	4	0	1.38	1.4	0.02	0	0	0	0	0	0	0	0
8/30/2024 10:10	29402	BELT_T1	1	1	0	8.2	8.5	0.3	0	0	0	0	0	0	0	0
8/30/2024 10:10	29401	BELT_T1	25	46	21	0.12	0.18	0.06	0	0	1	1	0	900	900	0
8/30/2024 10:10	66703	STRA_T1	0	0	0	0	0	0	-0.99	-0.87	0	0	0	0	0	0
8/30/2024 10:10	43802	SWIL_T1	0	0	0	0	0	0	0.06	0.07	1	1	0	600	600	0
8/30/2024 10:11	67803	WLAN_T1	0	0	0	0	0	0	-0.7	-0.67	0	0	0	0	0	0
8/30/2024 10:11	15203	SFAR_T2	0	0	0	0	0	0	-0.99	-0.96	0	0	0	0	0	0
8/30/2024 10:11	29401	BELT_T1	25	46	21	0.12	0.18	0.06	0	0	1	1	0	900	900	0
8/30/2024 10:11	67502	WEWI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/30/2024 10:11	43801	SWIL_T1	4	4	0	1.38	1.4	0.02	0	0	0	0	0	0	0	0
8/30/2024 10:11	15204	SFAR_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
8/30/2024 10:11	67503	WEWI_T2	1	1	0	8.2	7.9	-0.3	0.2	0.2	0	0	0	0	0	0
8/30/2024 10:11	29402	BELT_T1	1	1	0	8.2	8.5	0.3	0	0	0	0	0	0	0	0
8/30/2024 10:11	43802	SWIL_T1	0	0	0	0	0	0	0.06	0.07	1	1	0	600	600	0
8/30/2024 10:13	20401	ASHF_T2	4	4	0	0.38	0.13	-0.25	0	0	0	0	0	0	0	0
8/30/2024 10:13	67502	WEWI_T2	1	0	-1	0.2	0	-0.2	-0.08	-0.01	0	0	0	0	0	0
8/30/2024 10:13	20403	ASHF_T2	0	0	0	0	0	0	0.89	0.93	0	0	0	0	0	0
8/30/2024 10:13	67503	WEWI_T2	1	1	0	8.2	7.9	-0.3	0	0	0	0	0	0	0	0
8/30/2024 10:13	40504	CRES_T1	0	0	0	0	0	0	-1.68	-1.74	0	0	0	0	0	0
8/30/2024 10:13	16004	DORN_T1	0	0	0	0	0	0	-0.63	-0.49	1	1	0	1200	1200	0
8/30/2024 10:14	14204	EALL_T2	0	0	0	0	0	0	-0.17	-0.11	0	0	0	0	0	0
8/30/2024 10:14	16004	DORN_T1	0	0	0	0	0	0	-0.63	-0.49	1	1	0	1200	1200	0
8/30/2024 10:14	22904	HARW_T1	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
8/30/2024 10:14	22903	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 10:15	67803	WLAN_T1	0	0	0	0	0	0	-0.7	-0.67	0	0	0	0	0	0
8/30/2024 10:16	53601	DALM_T2	1	1	0	0.7	1.3	0.6	-0.14	-0.18	1	1	0	600	600	0
8/30/2024 10:16	40504	CRES_T1	0	0	0	0	0	0	-1.68	-1.74	0	0	0	0	0	0
8/30/2024 10:17	42002	MNVL_T2	1	1	0	3.7	3.7	0	0	0	0	0	0	0	0	0
8/30/2024 10:17	42001	MNVL_T2	71	101	30	0.35	0.64	0.29	-0.07	-0.04	0	0	0	0	0	0
8/30/2024 10:18	12605	MACA_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
8/30/2024 10:19	12605	MACA_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
8/30/2024 10:20	65001	NEFF_T2	0	0	0	0	0	0	-0.29	-0.23	1	1	0	1200	1200	0
8/30/2024 10:21	12801	MICK_T1	0	0	0	0	0	0	-0.66	-0.64	1	1	0	600	600	0
8/30/2024 10:21	12807	MICK_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
8/30/2024 10:22	58701	ROSE_T2	0	0	0	0	0	0	-1.34	-1.32	1	1	0	600	600	0
8/30/2024 10:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 10:22	58705	ROSE_T2	5	5	0	1.34	1.64	0.3	0	0	0	0	0	0	0	0
8/30/2024 10:22	24204	PROV_T3	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
8/30/2024 10:22	57403	SPAN_T1	0	18	18	0	0.22	0.22	0.16	0.12	0	0	0	0	0	0
8/30/2024 10:22	57401	SPAN_T1	2	2	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
8/30/2024 10:22	24201	PROV_T3	1	1	0	7.2	6.8	-0.4	-1.11	-1.13	1	1	0	1200	1200	0
8/30/2024 10:23	13905	SEID_T1	0	0	0	0	0	0	0.45	0.58	0	0	0	0	0	0
8/30/2024 10:23	58701	ROSE_T2	0	0	0	0	0	0	-1.34	-1.32	1	1	0	600	600	0
8/30/2024 10:23	58705	ROSE_T2	5	5	0	1.34	1.64	0.3	0	0	0	0	0	0	0	0
8/30/2024 10:24	67203	TEHI_T1	2	1	-1	0.45	0.2	-0.25	2.85	2.82	3	3	0	2100	2100	0
8/30/2024 10:24	58705	ROSE_T2	5	5	0	1.34	1.64	0.3	0	0	0	0	0	0	0	0
8/30/2024 10:24	58701	ROSE_T2	0	0	0	0	0	0	-1.34	-1.32	1	1	0	600	600	0
8/30/2024 10:25	58705	ROSE_T2	5	5	0	1.34	1.64	0.3	0	0	0	0	0	0	0	0
8/30/2024 10:25	58701	ROSE_T2	0	0	0	0	0	0	-1.34	-1.32	1	1	0	600	600	0
8/30/2024 10:25	15203	SFAR_T2	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
8/30/2024 10:26	65904	SAKR_T2	0	0	0	0	0	0	-1.96	-1.97	3	3	0	1500	1500	0
8/30/2024 10:26	65901	SAKR_T2	1	1	0	6.7	7.2	0.5	0	0	0	0	0	0	0	0
8/30/2024 10:26	15203	SFAR_T2	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
8/30/2024 10:30	63501	HEID_TBK1-2	47	49	2	0.61	0.61	0	-0.08	-0.11	1	1	0	900	900	0
8/30/2024 10:32	61701	ELIZ_T1	1	1	0	3.8	4.4	0.6	1.7	1.68	0	0	0	0	0	0
8/30/2024 10:32	57002	WHHI_T2	0	0	0	0	0	0	-1.07	-1.03	1	1	0	1200	1200	0
8/30/2024 10:32	57006	WHHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/30/2024 10:34	45802	HEGI_T2	7	42	35	0.31	0.72	0.41	2.52	2.25	0	0	0	0	0	0
8/30/2024 10:34	40601	PIGR_T1	0	6	6	0	0.23	0.23	0	0	0	0	0	0	0	0
8/30/2024 10:34	40602	PIGR_T1	1	1	0	0.3	0.1	-0.2	-0.83	-0.95	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/30/2024 10:35	63501	HEID_T8K1-2	47	49	2	0.61	0.61	0	-0.16	-0.22	2	2	0	1800	1800	0
8/30/2024 10:36	64101	REFR_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
8/30/2024 10:36	65205	PRIN_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
8/30/2024 10:41	43802	SWIL_T1	0	0	0	0	0	0	0.06	0.07	1	1	0	600	600	0
8/30/2024 10:41	45402	WBLO_T2	1	1	0	1.4	1.7	0.3	-0.37	-0.44	0	0	0	0	0	0
8/30/2024 10:41	43801	SWIL_T1	4	7	3	1.4	0.86	-0.54	0	0	0	0	0	0	0	0
8/30/2024 10:42	57104	SPHI_T2	0	0	0	0	0	0	-1.7	-1.73	1	1	0	900	900	0
8/30/2024 10:42	57101	SPHI_T2	6	6	0	0.6	1.22	0.62	0	0	0	0	0	0	0	0
8/30/2024 10:42	57106	SPHI_T2	3	3	0	0.83	1.43	0.6	0	0	0	0	0	0	0	0
8/30/2024 10:42	45901	AUBU_T1	0	0	0	0	0	0	1.21	1.23	0	0	0	0	0	0
8/30/2024 10:43	67803	WLAN_T1	0	0	0	0	0	0	-0.64	-0.69	0	0	0	0	0	0
8/30/2024 10:43	53501	EVIL_T2	1	2	1	0.8	0.9	0.1	-0.01	-0.01	1	1	0	600	600	0
8/30/2024 10:44	53501	EVIL_T2	1	2	1	0.8	0.9	0.1	-0.01	-0.01	1	1	0	600	600	0
8/30/2024 10:45	45501	DERR_T2	0	1	1	0	0.1	0.1	0.09	-0.46	2	2	0	1800	1800	0
8/30/2024 10:45	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 10:45	53501	EVIL_T2	2	1	-1	0.9	1.7	0.8	-0.01	-0.01	2	2	0	1200	1200	0
8/30/2024 10:45	46803	HEPB_T2	17	48	31	0.23	0.25	0.02	0	0	0	0	0	0	0	0
8/30/2024 10:45	46801	HEPB_T2	39	45	6	0.37	0.47	0.1	0.88	0.91	0	0	0	0	0	0
8/30/2024 10:46	25402	LAHA_T2	0	0	0	0	0	0	-0.8	-0.74	0	0	0	0	0	0
8/30/2024 10:46	53501	EVIL_T2	2	1	-1	0.9	1.7	0.8	-0.01	-0.01	2	2	0	1200	1200	0
8/30/2024 10:46	53502	EVIL_T2	0	0	0	0	0	0	0.19	0.2	2	1	-1	1200	600	-600
8/30/2024 10:47	12802	MICK_T1	0	2	2	0	0.1	0.1	-0.75	-0.79	0	0	0	0	0	0
8/30/2024 10:47	12807	MICK_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
8/30/2024 10:48	22905	HARW_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
8/30/2024 10:48	22903	HARW_T1	0	5	5	0	0.15	0.15	0	0	0	0	0	0	0	0
8/30/2024 10:48	53501	EVIL_T2	2	1	-1	0.9	1.7	0.8	-0.01	-0.01	1	1	0	600	600	0
8/30/2024 10:48	57006	WHHI_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/30/2024 10:48	57004	WHHI_T2	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
8/30/2024 10:49	15604	NSTR_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
8/30/2024 10:51	15601	NSTR_T2	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
8/30/2024 10:51	15603	NSTR_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
8/30/2024 10:53	55002	NEWP_T1	4	4	0	0.48	0.53	0.05	0	0	0	0	0	0	0	0
8/30/2024 10:53	55001	NEWP_T1	0	0	0	0	0	0	-0.03	-0.12	0	0	0	0	0	0
8/30/2024 10:53	54601	SUMM_T2	6	7	1	0.5	0.39	-0.11	-1.63	-1.77	2	2	0	2100	2100	0
8/30/2024 10:54	20401	ASHF_T2	1	4	3	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/30/2024 10:54	15702	TANN_T2	0	0	0	0	0	0	-0.25	-0.19	0	0	0	0	0	0
8/30/2024 10:54	20403	ASHF_T2	1	0	-1	0.3	0	-0.3	0.93	0.98	0	0	0	0	0	0
8/30/2024 10:54	67402	WAKE_T2	0	0	0	0	0	0	-0.2	-0.19	1	1	0	600	600	0
8/30/2024 10:54	20402	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/30/2024 10:54	67401	WAKE_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/30/2024 10:54	15703	TANN_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
8/30/2024 10:55	20402	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/30/2024 10:55	15204	SFAR_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
8/30/2024 10:55	20401	ASHF_T2	1	4	3	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/30/2024 10:55	20403	ASHF_T2	1	0	-1	0.3	0	-0.3	0.93	0.98	0	0	0	0	0	0
8/30/2024 10:56	20401	ASHF_T2	1	4	3	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/30/2024 10:56	54601	SUMM_T2	6	7	1	0.5	0.39	-0.11	0	0	0	0	0	0	0	0
8/30/2024 10:56	29401	BELT_T1	39	51	12	0.18	0.23	0.05	0	0	1	1	0	900	900	0
8/30/2024 10:56	29402	BELT_T1	1	1	0	7.9	8.2	0.3	0	0	0	0	0	0	0	0
8/30/2024 10:56	55102	WERT_T2	0	0	0	0	0	0	-0.8	-0.84	2	2	0	1200	1200	0
8/30/2024 10:56	20403	ASHF_T2	1	0	-1	0.3	0	-0.3	0.93	0.98	0	0	0	0	0	0
8/30/2024 10:56	20402	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/30/2024 10:56	54603	SUMM_T2	0	0	0	0	0	0	-0.7	0.19	1	1	0	900	900	0
8/30/2024 10:57	64602	LEOL_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
8/30/2024 10:57	45902	AUBU_T1	0	0	0	0	0	0	-0.42	-0.52	1	1	0	600	600	0
8/30/2024 10:58	20401	ASHF_T2	1	4	3	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
8/30/2024 10:58	24801	VALM_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
8/30/2024 10:58	20402	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/30/2024 10:58	20403	ASHF_T2	1	0	-1	0.3	0	-0.3	0.93	0.98	0	0	0	0	0	0
8/30/2024 10:59	55102	WERT_T2	0	0	0	0	0	0	-0.8	-0.84	2	2	0	1200	1200	0
8/30/2024 11:01	63305	GREE_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
8/30/2024 11:01	63302	GREE_T1	0	0	0	0	0	0	0.97	0.98	0	0	0	0	0	0
8/30/2024 11:02	40101	HUNT_T2	2	13	11	0.95	0.35	-0.6	-0.21	-0.2	0	0	0	0	0	0
8/30/2024 11:04	40101	HUNT_T2	2	13	11	0.95	0.35	-0.6	-0.21	-0.2	0	0	0	0	0	0
8/30/2024 11:04	43202	MVIL_T2	54	65	11	0.35	0.48	0.13	-0.48	-0.51	0	0	0	0	0	0
8/30/2024 11:07	65502	MOJO_T2	0	0	0	0	0	0	-0.44	-0.37	1	1	0	900	900	0
8/30/2024 11:07	59101	WALK_T2	0	0	0	0	0	0	-0.03	-0.16	0	0	0	0	0	0
8/30/2024 11:07	59102	WALK_T2	0	10	10	0	6	6	0	0	0	0	0	0	0	0
8/30/2024 11:09	49803	UNIV_T1	1	1	0	6.4	6.3	-0.1	-0.77	-0.82	0	0	0	0	0	0
8/30/2024 11:10	20403	ASHF_T2	0	0	0	0	0	0	0.98	0.82	0	0	0	0	0	0
8/30/2024 11:10	20401	ASHF_T2	4	3	-1	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
8/30/2024 11:11	55405	SHER_T1	31	31	0	0.74	0.85	0.11	-0.17	-0.17	0	0	0	0	0	0
8/30/2024 11:12	60101	COCA_T1	1	1	0	0.2	0.6	0.4	0.7	0.8	0	0	0	0	0	0
8/30/2024 11:12	65205	PRIN_T1	1	1	0	1.3	1.9	0.6	0	0	0	0	0	0	0	0
8/30/2024 11:12	67804	WLAN_T1	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
8/30/2024 11:12	45502	DERR_T2	1	0	-1	1.6	0	-1.6	0	0	0	0	0	0	0	0
8/30/2024 11:12	45501	DERR_T2	1	0	-1	0.1	0	-0.1	-0.57	-0.62	2	2	0	1800	1800	0
8/30/2024 11:12	63401	HONY_T1	0	0	0	0	0	0	-0.1	-0.08	1	1	0	600	600	0
8/30/2024 11:13	60102	COCA_T1	0	0	0	0	0	0	-0.85	-0.9	2	2	0	1200	1200	0
8/30/2024 11:13	60101	COCA_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
8/30/2024 11:14	60101	COCA_T1	1	1	0	0.2	0.6	0.4	0.7	0.8	0	0	0	0	0	0
8/30/2024 11:15	55508	HERS_T2	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
8/30/2024 11:18	20603	GRWO_T2	0	1	1	0	0.2	0.2	-0.55	-0.5	1	1	0	900	900	0
8/30/2024 11:18	20601	GRWO_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/30/2024 11:19	60101	COCA_T1	1	0	-1	0.6	0	-0.6	0.7	0.8	0	0	0	0	0	0
8/30/2024 11:20	56501	ROCK_T2	1	2	1	0.3	0.3	0	0.3	0.29	0	0	0	0	0	0
8/30/2024 11:21	54502	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 11:21	40101	HUNT_T2	7	14	7	0.33	0.8	0.47	-0.21	-0.26	0	0	0	0	0	0
8/30/2024 11:21	55405	SHER_T1	30	31	1	0.78	0.85	0.07	0	0	0	0	0	0	0	0
8/30/2024 11:21	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 11:21	55401	SHER_T1	0	0	0	0	0	0	-0.31	-0.31	1	1	0	1200	1200	0
8/30/2024 11:21	42201	SHEN_T2	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
8/30/2024 11:21	54503	ENOL_T2	0	0	0	0	0	0	-1.2	-1.22	1	1	0	600	600	0
8/30/2024 11:22	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 11:22	12807	MICK_T1	1	1	0	1.1	1.1	0	-0.65	-0.66	0	0	0	0	0	0
8/30/2024 11:22	54503	ENOL_T2	0	0	0	0	0	0	-2.45	-2.28	2	2	0	1200	1200	0
8/30/2024 11:22	12802	MICK_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 11:22	54502	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 11:23	41902	REED_T1	0	0	0	0	0	0	2.51	2.57	0	0	0	0	0	0
8/30/2024 11:23	41901	REED_T1	3	4	1	0.17	0.18	0.01	0	0	0	0	0	0	0	0
8/30/2024 11:23	12801	MICK_T1	0	0	0	0	0	0	-0.63	-0.65	1	1	0	600	600	0
8/30/2024 11:23	12807	MICK_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
8/30/2024 11:23	12802	MICK_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 11:24	12807	MICK_T1	1	1	0	1.1	1.1	0	-0.65	-0.66	0	0	0	0	0	0
8/30/2024 11:24	12802	MICK_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 11:26	46302	ROHR_T1	4	4	0	2.23	2.58	0.35	0.23	0.26	0	0	0	0	0	0
8/30/2024 11:26	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 11:26	54502	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 11:26	46301	ROHR_T1	55	73	18	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
8/30/2024 11:26	54503	ENOL_T2	0	0	0	0	0	0	-1.22	-1.14	1	1	0	600	600	0
8/30/2024 11:28	62607	ENGL_T1	0	0	0	0	0	0	-0.76	-0.62	1	1	0	300	300	0
8/30/2024 11:28	46302	ROHR_T1	4	4	0	2.23	2.58	0.35	0.23	0.26	0	0	0	0	0	0
8/30/2024 11:28	46301	ROHR_T1	55	73	18	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
8/30/2024 11:30	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/30/2024 11:34	59002	MIFF_T1	6	6	0	0.67	0.55	-0.12	0	0	0	0	0	0	0	0
8/30/2024 11:34	59003	MIFF_T1	1	1	0	0.4	0.6	0.2	-0.3	-0.34	0	0	0	0	0	0
8/30/2024 11:34	55002	NEWP_T1	3	4	1	0.53	0.35	-0.18	-0.14	-0.1	0	0	0	0	0	0
8/30/2024 11:35	55002	NEWP_T1	3	4	1	0.53	0.35	-0.18	0	0	0	0	0	0	0	0
8/30/2024 11:35	55001	NEWP_T1	0	0	0	0	0	0	-0.05	-0.02	0	0	0	0	0	0
8/30/2024 11:35	58401	MORO_T1	0	1	1	0	0	0	-3.19	-3.2	2	2	0	1200	1200	0
8/30/2024 11:36	64903	MILL_T2	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
8/30/2024 11:36	59101	WALK_T2	0	4	4	0	6.43	6.43	-0.16	-0.13	0	0	0	0	0	0
8/30/2024 11:36	66001	RHEE_T2	0	0	0	0	0	0	-1.57	-1.41	2	2	0	2100	2100	0
8/30/2024 11:37	55405	SHER_T1	31	31	0	0.85	0.77	-0.08	-0.17	-0.17	0	0	0	0	0	0
8/30/2024 11:37	60902	DONG_T2	0	0	0	0	0	0	1.06	1.06	0	0	0	0	0	0
8/30/2024 11:38	15703	TANN_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
8/30/2024 11:38	15702	TANN_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
8/30/2024 11:38	47401	PENS_T1	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
8/30/2024 11:39	15702	TANN_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
8/30/2024 11:39	15703	TANN_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
8/30/2024 11:39	15203	SFAR_T2	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
8/30/2024 11:42	60801	BUCK_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
8/30/2024 11:42	60803	BUCK_T1	13	16	3	0.34	0.49	0.15	0	0	0	0	0	0	0	0
8/30/2024 11:43	22002	BOHE_T1	0	0	0	0	0	0	0.29	0.38	0	0	0	0	0	0
8/30/2024 11:43	22003	BOHE_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 11:44	63401	HONY_T1	0	0	0	0	0	0	-0.04	-0.13	1	1	0	600	600	0
8/30/2024 11:44	14402	SSLA_T1	16	102	86	0.12	0.15	0.03	0	0	0	0	0	0	0	0
8/30/2024 11:44	14401	SSLA_T1	2	3	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
8/30/2024 11:44	14404	SSLA_T1	2	2	0	0.1	0.2	0.1	0.22	0.21	0	0	0	0	0	0
8/30/2024 11:45	14402	SSLA_T1	87	80	-7	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
8/30/2024 11:45	14404	SSLA_T1	0	3	3	0	0.17	0.17	0.22	0.21	0	0	0	0	0	0
8/30/2024 11:45	14401	SSLA_T1	2	3	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
8/30/2024 11:46	14401	SSLA_T1	2	3	1	0.2	0.23	0.03	-0.23	-0.23	0	0	0	0	0	0
8/30/2024 11:46	14404	SSLA_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
8/30/2024 11:46	14402	SSLA_T1	87	80	-7	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
8/30/2024 11:46	64203	KINZ_T1	0	1	1	0	0.1	0.1	0.07	0.08	3	3	0	2100	2100	0
8/30/2024 11:46	64204	KINZ_T1	3	4	1	0.73	0.4	-0.33	0	0	0	0	0	0	0	0
8/30/2024 11:48	14402	SSLA_T1	87	80	-7	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
8/30/2024 11:48	14404	SSLA_T1	0	3	3	0	0.17	0.17	0.22	0.21	0	0	0	0	0	0
8/30/2024 11:48	14401	SSLA_T1	2	3	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
8/30/2024 11:49	45702	LIND_T2	14	1	-13	0.27	2.1	1.83	-1.5	-1.52	0	0	0	0	0	0
8/30/2024 11:49	14401	SSLA_T1	2	3	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
8/30/2024 11:49	14404	SSLA_T1	0	3	3	0	0.17	0.17	0.22	0.21	0	0	0	0	0	0
8/30/2024 11:49	14402	SSLA_T1	87	80	-7	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
8/30/2024 11:55	67203	TEHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/30/2024 11:55	67201	TEHI_T1	0	0	0	0	0	0	1.37	0.95	2	2	0	1500	1500	0
8/30/2024 11:56	28102	TWLA_T2	10	12	2	0.34	0.31	-0.03	0.25	0.24	0	0	0	0	0	0
8/30/2024 11:58	63305	GREE_T1	1	5	4	0.2	0.12	-0.08	-1.78	-1.81	1	1	0	900	900	0
8/30/2024 11:59	67605	WARW_T1	1	1	0	0.2	0.4	0.2	-0.84	-0.77	0	0	0	0	0	0
8/30/2024 11:59	61502	EPET_T1	0	0	0	0	0	0	-2.06	-2.06	0	0	0	0	0	0
8/30/2024 11:59	40801	EXCH_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/30/2024 11:59	40802	EXCH_T2	0	4	4	0	0.2	0.2	-0.41	-0.56	0	0	0	0	0	0
8/30/2024 12:00	40801	EXCH_T2	1	3	2	0.2	0.2	0	-0.19	-0.26	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/30/2024 12:00	40802	EXCH_T2	1	3	2	0.4	0.2	-0.2	-0.81	-1.12	0	0	0	0	0	0
8/30/2024 12:01	28102	TWLA_T2	9	11	2	0.3	0.29	-0.01	0.25	0.24	0	0	0	0	0	0
8/30/2024 12:02	63305	GREE_T1	5	0	-5	0.12	0	-0.12	-1.78	-1.81	1	1	0	900	900	0
8/30/2024 12:03	45802	HEGI_T2	9	41	32	0.26	0.5	0.24	1.97	1.93	0	0	0	0	0	0
8/30/2024 12:04	40601	PIGR_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
8/30/2024 12:04	40602	PIGR_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
8/30/2024 12:05	40602	PIGR_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
8/30/2024 12:05	40601	PIGR_T1	0	3	3	0	0.13	0.13	-0.11	-0.12	0	0	0	0	0	0
8/30/2024 12:05	63401	HONY_T1	0	0	0	0	0	0	-0.13	0.27	1	1	0	600	600	0
8/30/2024 12:07	65503	MOJO_T2	0	0	0	0	0	0	-0.53	-0.6	1	1	0	900	900	0
8/30/2024 12:09	48302	ORWI_T2	2	2	0	0.25	0.4	0.15	-0.41	-0.42	0	0	0	0	0	0
8/30/2024 12:10	16503	STRO_T2	0	0	0	0	0	0	-0.87	-0.79	1	1	0	1200	1200	0
8/30/2024 12:10	41901	REED_T1	4	8	4	0.18	0.28	0.1	0	0	0	0	0	0	0	0
8/30/2024 12:10	41902	REED_T1	0	0	0	0	0	0	1.2	1.27	0	0	0	0	0	0
8/30/2024 12:11	61303	EARL_T1	0	0	0	0	0	0	0.69	0.65	0	0	0	0	0	0
8/30/2024 12:12	67605	WARW_T1	1	1	0	0.3	0.4	0.1	-0.77	-0.78	0	0	0	0	0	0
8/30/2024 12:13	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/30/2024 12:13	67605	WARW_T1	1	1	0	0.3	0.4	0.1	-0.77	-0.78	0	0	0	0	0	0
8/30/2024 12:14	67603	WARW_T1	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
8/30/2024 12:14	67605	WARW_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/30/2024 12:15	46206	DANV_T2	1	1	0	1.7	1.9	0.2	3.16	3.14	2	2	0	2400	2400	0
8/30/2024 12:15	67605	WARW_T1	1	0	-1	0.4	0	-0.4	-0.77	-0.78	0	0	0	0	0	0
8/30/2024 12:15	46203	DANV_T2	1	1	0	8	7.7	-0.3	0	0	0	0	0	0	0	0
8/30/2024 12:16	47001	HUGH_T2	3	6	3	8.8	4.57	-4.23	-0.41	-0.4	0	0	0	0	0	0
8/30/2024 12:16	47002	HUGH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 12:16	61803	EELI_T2	0	1	1	0	0.1	0.1	0.89	0.87	0	0	0	0	0	0
8/30/2024 12:16	46206	DANV_T2	1	1	0	1.7	1.9	0.2	1.58	1.57	1	1	0	1200	1200	0
8/30/2024 12:16	46203	DANV_T2	1	1	0	8	7.7	-0.3	0	0	0	0	0	0	0	0
8/30/2024 12:17	47002	HUGH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 12:17	47001	HUGH_T2	3	6	3	8.8	4.57	-4.23	-0.41	-0.4	0	0	0	0	0	0
8/30/2024 12:18	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 12:19	64202	KINZ_T1	0	0	0	0	0	0	1.24	1.29	0	0	0	0	0	0
8/30/2024 12:19	64204	KINZ_T1	1	5	4	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
8/30/2024 12:19	64203	KINZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/30/2024 12:21	44201	POIN_T1	97	67	-30	0.22	0.18	-0.04	-1.64	-1.65	2	2	0	2100	2100	0
8/30/2024 12:22	51201	MTON_T1	1	1	0	0.4	0.3	-0.1	0.24	0.26	0	0	0	0	0	0
8/30/2024 12:22	14801	TREI_T2	3	0	-3	0.15	0	-0.15	0.67	0.66	0	0	0	0	0	0
8/30/2024 12:22	14802	TREI_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
8/30/2024 12:25	44201	POIN_T1	97	67	-30	0.22	0.18	-0.04	-1.64	-1.65	2	2	0	2100	2100	0
8/30/2024 12:25	48302	ORWI_T2	2	0	-2	0.3	0.15	-0.15	-0.42	-0.35	0	0	0	0	0	0
8/30/2024 12:25	14802	TREI_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
8/30/2024 12:25	14801	TREI_T2	3	0	-3	0.15	0	-0.15	0.67	0.66	0	0	0	0	0	0
8/30/2024 12:26	57403	SPAN_T1	10	7	-3	0.21	0.19	-0.02	0.15	0.21	0	0	0	0	0	0
8/30/2024 12:26	57401	SPAN_T1	2	2	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
8/30/2024 12:27	46903	MNTG_T2	10	3	-7	0.16	0.2	0.04	0.31	0.48	1	1	0	600	600	0
8/30/2024 12:27	46902	MNTG_T2	9	2	-7	0.17	0.2	0.03	0	0	0	0	0	0	0	0
8/30/2024 12:27	46901	MNTG_T2	3	0	-3	0.2	0	-0.2	-0.48	-0.49	1	1	0	1200	1200	0
8/30/2024 12:28	48902	FOSP_T2	0	0	0	0	0	0	-1.03	0.54	2	0	-2	2400	0	-2400
8/30/2024 12:28	48901	FOSP_T2	0	0	0	0	0	0	-0.08	0	1	1	0	600	600	0
8/30/2024 12:29	46902	MNTG_T2	9	2	-7	0.17	0.2	0.03	0	0	0	0	0	0	0	0
8/30/2024 12:29	46901	MNTG_T2	3	0	-3	0.2	0	-0.2	-0.48	-0.49	1	1	0	1200	1200	0
8/30/2024 12:29	47101	MARL_T1	0	0	0	0	0	0	0.07	0.1	0	0	0	0	0	0
8/30/2024 12:29	46903	MNTG_T2	10	3	-7	0.16	0.2	0.04	0	0	0	0	0	0	0	0
8/30/2024 12:30	48902	FOSP_T2	0	0	0	0	0	0	-3.09	1.63	6	0	-6	7200	0	-7200
8/30/2024 12:30	20603	GRWO_T2	0	0	0	0	0	0	-0.49	-0.45	1	1	0	900	900	0
8/30/2024 12:31	48902	FOSP_T2	0	0	0	0	0	0	-1.03	0.54	2	0	-2	2400	0	-2400
8/30/2024 12:34	53902	HALI_T2	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
8/30/2024 12:34	43202	MVIL_T2	54	58	4	0.35	0.31	-0.04	-0.49	-0.48	0	0	0	0	0	0
8/30/2024 12:34	53903	HALI_T2	2	2	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
8/30/2024 12:34	53901	HALI_T2	1	1	0	0.7	0.8	0.1	-0.97	-1.01	0	0	0	0	0	0
8/30/2024 12:36	43202	MVIL_T2	54	58	4	0.35	0.31	-0.04	-0.48	-0.47	0	0	0	0	0	0
8/30/2024 12:37	66902	SHIL_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/30/2024 12:37	46004	BERW_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
8/30/2024 12:37	66901	SHIL_T2	0	1	1	0	0	0	-1.29	-1.34	1	1	0	1200	1200	0
8/30/2024 12:37	46003	BERW_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 12:38	46003	BERW_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 12:38	40301	TAMA_T3	1	1	0	0	0	0	0.77	0.87	2	2	0	1800	1800	0
8/30/2024 12:38	21703	SUBU_T1	0	0	0	0	0	0	0.5	0.54	0	0	0	0	0	0
8/30/2024 12:38	46004	BERW_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
8/30/2024 12:38	46001	BERW_T1	0	0	0	0	0	0	1.1	1.07	0	0	0	0	0	0
8/30/2024 12:38	21701	SUBU_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
8/30/2024 12:38	21705	SUBU_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
8/30/2024 12:38	40302	TAMA_T3	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
8/30/2024 12:39	55105	WERT_T1	0	0	0	0	0	0	-0.2	-0.16	1	1	0	900	900	0
8/30/2024 12:42	45602	WOOL_T1	0	0	0	0	0	0	0.89	0.84	0	0	0	0	0	0
8/30/2024 12:53	21705	SUBU_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
8/30/2024 12:53	21703	SUBU_T1	0	0	0	0	0	0	0.54	0.49	0	0	0	0	0	0
8/30/2024 12:53	21701	SUBU_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
8/30/2024 12:58	53801	MBRG_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
8/30/2024 12:58	53802	MBRG_T2	0	1	1	0	0	0	1.19	1.29	0	0	0	0	0	0
8/30/2024 13:00	42503	ALTA_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
8/30/2024 13:07	56501	ROCK_T2	1	1	0	0.2	0.6	0.4	0.79	0.8	0	0	0	0	0	0
8/30/2024 13:08	67503	WEWI_T2	1	1	0	7.6	7.3	-0.3	0	0	0	0	0	0	0	0
8/30/2024 13:08	67502	WEWI_T2	2	1	-1	0.1	0.1	0	-0.89	-0.89	1	1	0	900	900	0
8/30/2024 13:09	67502	WEWI_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/30/2024 13:09	67503	WEWI_T2	1	1	0	7.6	7.3	-0.3	0.32	0.28	0	0	0	0	0	0
8/30/2024 13:10	67502	WEWI_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/30/2024 13:10	67503	WEWI_T2	1	1	0	7.6	7.3	-0.3	0.32	0.28	0	0	0	0	0	0
8/30/2024 13:11	12302	LANA_T2	0	0	0	0	0	0	-1.44	-1.43	2	2	0	1500	1500	0
8/30/2024 13:12	44801	EDAN_T2	150	166	16	0.47	0.5	0.03	-1.37	-1.38	0	0	0	0	0	0
8/30/2024 13:12	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 13:13	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 13:14	10805	CHHI_T2	1	1	0	8.3	7.8	-0.5	-1.03	-1	1	1	0	600	600	0
8/30/2024 13:17	44802	EDAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 13:17	44801	EDAN_T2	143	225	82	0.49	0.45	-0.04	-1.37	-1.38	0	0	0	0	0	0
8/30/2024 13:18	63403	HONY_T2	0	0	0	0	0	0	-0.92	-0.93	1	1	0	600	600	0
8/30/2024 13:18	63402	HONY_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 13:23	42201	SHEN_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
8/30/2024 13:25	13503	MCMI_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
8/30/2024 13:25	67503	WEWI_T2	1	1	0	7.3	6.9	-0.4	0.28	0.3	0	0	0	0	0	0
8/30/2024 13:25	67502	WEWI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 13:25	42201	SHEN_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
8/30/2024 13:28	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 13:32	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 13:32	21206	ECAR_T2	1	6	5	7.8	7.7	-0.1	0.24	0.31	0	0	0	0	0	0
8/30/2024 13:33	66301	MCGO_T2	0	0	0	0	0	0	-2.85	-2.85	0	0	0	0	0	0
8/30/2024 13:33	55405	SHEN_T1	11	11	0	0.47	0.63	0.16	-0.17	-0.17	0	0	0	0	0	0
8/30/2024 13:34	66301	MCGO_T2	0	0	0	0	0	0	-1.43	-1.42	0	0	0	0	0	0
8/30/2024 13:36	10801	CHHI_T1	0	0	0	0	0	0	-1.05	-1.11	2	2	0	1500	1500	0
8/30/2024 13:43	45902	AUBU_T1	0	0	0	0	0	0	-0.56	-0.64	1	1	0	600	600	0
8/30/2024 13:45	45901	AUBU_T1	0	0	0	0	0	0	1.11	1.14	0	0	0	0	0	0
8/30/2024 13:53	55105	WERT_T1	0	0	0	0	0	0	-0.11	-0.09	1	1	0	900	900	0
8/30/2024 13:58	55105	WERT_T1	0	0	0	0	0	0	-0.11	-0.09	1	1	0	900	900	0
8/30/2024 13:58	45902	AUBU_T1	0	0	0	0	0	0	-0.64	-0.62	1	1	0	600	600	0
8/30/2024 13:59	45902	AUBU_T1	0	0	0	0	0	0	-0.64	-0.62	1	1	0	600	600	0
8/30/2024 14:04	26803	JAFR_T1	0	15	15	0	0	0	-0.55	-0.56	1	1	0	900	900	0
8/30/2024 14:07	58402	MORO_T1	0	2	2	0	0.1	0.1	0.72	0.77	1	1	0	900	900	0
8/30/2024 14:12	46301	ROHR_T1	15	20	5	0.59	0.5	-0.09	0.3	0.29	0	0	0	0	0	0
8/30/2024 14:12	46302	ROHR_T1	4	4	0	1.65	2.05	0.4	0	0	0	0	0	0	0	0
8/30/2024 14:14	43103	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/30/2024 14:14	43106	SMIL_T2	0	0	0	0	0	0	-1.16	-1.21	2	2	0	2400	2400	0
8/30/2024 14:14	43105	SMIL_T2	3	1	-2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/30/2024 14:14	43102	SMIL_T2	4	4	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/30/2024 14:23	44201	POIN_T1	1	67	66	0.1	0.2	0.1	-1.61	-1.61	2	2	0	2100	2100	0
8/30/2024 14:25	42201	SHEN_T2	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
8/30/2024 14:25	67502	WEWI_T2	0	0	0	0	0	0	-0.93	-0.99	1	1	0	900	900	0
8/30/2024 14:25	67503	WEWI_T2	1	1	0	7.1	7	-0.1	0	0	0	0	0	0	0	0
8/30/2024 14:31	64603	LEOL_T1	0	0	0	0	0	0	-0.29	-0.31	1	1	0	600	600	0
8/30/2024 14:31	62604	ENGL_T1	0	0	0	0	0	0	-0.44	-0.41	1	1	0	600	600	0
8/30/2024 14:32	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 14:32	62101	ELAN_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
8/30/2024 14:32	65702	RVIL_T2	0	0	0	0	0	0	-0.28	-0.29	1	1	0	600	600	0
8/30/2024 14:39	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 14:39	43103	SMIL_T2	1	4	3	0.2	0.38	0.18	0	0	0	0	0	0	0	0
8/30/2024 14:39	43102	SMIL_T2	4	4	0	0.33	0.53	0.2	0	0	0	0	0	0	0	0
8/30/2024 14:39	43108	SMIL_T2	0	0	0	0	0	0	-0.87	-0.89	1	1	0	1200	1200	0
8/30/2024 14:40	17901	BART_T1	0	0	0	0	0	0	0.39	0.37	1	1	0	1200	1200	0
8/30/2024 14:42	17901	BART_T1	0	0	0	0	0	0	0.39	0.37	1	1	0	1200	1200	0
8/30/2024 14:43	61801	EELI_T2	0	0	0	0	0	0	-0.4	-0.35	1	1	0	600	600	0
8/30/2024 14:44	45902	AUBU_T1	0	0	0	0	0	0	-0.58	-0.59	1	1	0	600	600	0
8/30/2024 14:45	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 14:45	62105	ELAN_T1	0	0	0	0	0	0	0.74	0.71	0	0	0	0	0	0
8/30/2024 14:45	17901	BART_T1	0	0	0	0	0	0	0.39	0.37	1	1	0	1200	1200	0
8/30/2024 14:46	61504	EPET_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
8/30/2024 14:46	61501	EPET_T2	1	1	0	4.7	5.2	0.5	0	0	0	0	0	0	0	0
8/30/2024 14:46	45902	AUBU_T1	0	0	0	0	0	0	-0.58	-0.59	1	1	0	600	600	0
8/30/2024 14:48	64605	LEOL_T1	0	1	1	0	0	0	0.82	0.71	2	2	0	600	600	0
8/30/2024 14:48	61501	EPET_T2	1	1	0	4.7	5.2	0.5	0	0	0	0	0	0	0	0
8/30/2024 14:48	61504	EPET_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
8/30/2024 14:50	20201	JERM_T1	0	0	0	0	0	0	-0.47	-0.36	2	2	0	2400	2400	0
8/30/2024 14:53	54506	ENOL_T2	0	0	0	0	0	0	0.41	0.47	1	1	0	600	600	0
8/30/2024 14:53	64902	MILL_T2	0	0	0	0	0	0	-0.83	-0.82	1	1	0	900	900	0
8/30/2024 14:53	54505	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
8/30/2024 14:53	65205	PRIN_T1	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
8/30/2024 14:55	65804	RTWN_T1	0	0	0	0	0	0	0.8	0.78	1	1	0	600	600	0
8/30/2024 14:59	63305	GREE_T1	7	4	-3	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
8/30/2024 14:59	63304	GREE_T1	0	0	0	0	0	0	-1.16	-1.25	0	0	0	0	0	0
8/30/2024 15:01	63304	GREE_T1	0	0	0	0	0	0	-1.16	-1.25	0	0	0	0	0	0
8/30/2024 15:01	63305	GREE_T1	4	7	3	0.17	0.18	0.01	0	0	0	0	0	0	0	0
8/30/2024 15:04	65205	PRIN_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
8/30/2024 15:07	43103	SMIL_T2	4	4	0	0.33	0.18	-0.15	0	0	0	0	0	0	0	0
8/30/2024 15:07	43101	SMIL_T2	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
8/30/2024 15:07	43102	SMIL_T2	4	5	1	0.53	0.42	-0.11	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/30/2024 15:07	43105	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 15:16	53601	DALM_T2	1	1	0	0.8	1.1	0.3	-0.34	-0.41	1	1	0	600	600	0
8/30/2024 15:22	55105	WERT_T1	0	0	0	0	0	0	-0.07	-0.04	1	1	0	900	900	0
8/30/2024 15:23	67103	SPRI_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
8/30/2024 15:28	40801	EXCH_T2	3	3	0	0.37	0.43	0.06	0	0	0	0	0	0	0	0
8/30/2024 15:28	40802	EXCH_T2	10	35	25	0.11	0.13	0.02	-0.65	-0.64	0	0	0	0	0	0
8/30/2024 15:33	50201	HARR_T3	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
8/30/2024 15:33	50107	HARR_T3	1	1	0	7.1	7	-0.1	0	0	0	0	0	0	0	0
8/30/2024 15:33	50105	HARR_T3	7	6	-1	6	6.78	0.78	0	0	0	0	0	0	0	0
8/30/2024 15:38	66504	SMAN_T2	0	0	0	0	0	0	-1.13	-1.11	1	1	0	1200	1200	0
8/30/2024 15:39	46002	BERW_T2	0	0	0	0	0	0	-0.86	-0.87	1	1	0	900	900	0
8/30/2024 15:41	66504	SMAN_T2	0	0	0	0	0	0	-1.13	-1.11	1	1	0	1200	1200	0
8/30/2024 15:41	42501	ALTA_T2	1	1	0	0	0	0	-0.93	-0.96	1	1	0	600	600	0
8/30/2024 15:41	67805	WLAN_T1	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
8/30/2024 15:41	42504	ALTA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
8/30/2024 15:42	49803	UNIV_T1	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
8/30/2024 15:42	49804	UNIV_T1	0	0	0	0	0	0	0.9	0.87	0	0	0	0	0	0
8/30/2024 15:42	10504	CRAC_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
8/30/2024 15:44	10602	BLGL_T2	0	0	0	0	0	0	0.29	0.38	0	0	0	0	0	0
8/30/2024 15:50	44203	POIN_T2	0	0	0	0	0	0	-0.36	-0.63	2	2	0	2100	2100	0
8/30/2024 15:50	44202	POIN_T2	0	0	0	0	0	0	-0.47	-0.33	1	1	0	1200	1200	0
8/30/2024 15:52	44203	POIN_T2	0	0	0	0	0	0	-0.63	-0.57	2	2	0	2100	2100	0
8/30/2024 15:53	64802	MONE_T2	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
8/30/2024 16:01	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/30/2024 16:03	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
8/30/2024 16:06	64701	LITI_T1	0	0	0	0	0	0	0.63	0.57	0	0	0	0	0	0
8/30/2024 16:08	15204	SFAR_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
8/30/2024 16:08	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/30/2024 16:08	65207	PRIN_T4	3	1	-2	0.27	0.4	0.13	0	0	0	0	0	0	0	0
8/30/2024 16:12	66502	SMAN_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
8/30/2024 16:13	62601	ENGL_T1	0	0	0	0	0	0	-0.23	-0.19	0	0	0	0	0	0
8/30/2024 16:14	64503	LAVI_T1	0	0	0	0	0	0	-1.27	-1.38	1	1	0	1200	1200	0
8/30/2024 16:16	14401	SSLA_T1	1	2	1	0.1	0.1	0	-0.37	-0.3	0	0	0	0	0	0
8/30/2024 16:18	14401	SSLA_T1	1	2	1	0.1	0.1	0	-0.37	-0.3	0	0	0	0	0	0
8/30/2024 16:19	21901	HUMB_T1	0	0	0	0	0	0	-2.07	-2.07	0	0	0	0	0	0
8/30/2024 16:19	14401	SSLA_T1	1	2	1	0.1	0.1	0	-0.37	-0.3	0	0	0	0	0	0
8/30/2024 16:21	54503	ENOL_T2	0	0	0	0	0	0	-1.1	-1.08	1	1	0	600	600	0
8/30/2024 16:21	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
8/30/2024 16:22	55002	NEWP_T1	3	5	2	0.63	0.54	-0.09	-0.12	-0.13	0	0	0	0	0	0
8/30/2024 16:33	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 16:34	65207	PRIN_T4	1	3	2	0.4	0.3	-0.1	0	0	2	2	0	1800	1800	0
8/30/2024 16:35	44301	BEAV_T2	0	0	0	0	0	0	-0.58	-0.59	1	1	0	600	600	0
8/30/2024 16:36	59102	WALK_T2	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
8/30/2024 16:36	46102	MACI_T1	0	0	0	0	0	0	0.97	0.92	0	0	0	0	0	0
8/30/2024 16:37	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
8/30/2024 16:37	54503	ENOL_T2	0	0	0	0	0	0	-1.07	-1.13	1	1	0	600	600	0
8/30/2024 16:38	12802	MICK_T1	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
8/30/2024 16:38	44203	POIN_T2	0	0	0	0	0	0	-0.63	-0.51	2	2	0	2100	2100	0
8/30/2024 16:38	12807	MICK_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/30/2024 16:39	43102	SMIL_T2	6	6	0	0.58	0.62	0.04	0	0	0	0	0	0	0	0
8/30/2024 16:39	43105	SMIL_T2	4	7	3	0.13	0.14	0.01	0	0	0	0	0	0	0	0
8/30/2024 16:39	43106	SMIL_T2	0	0	0	0	0	0	-1.31	-1.41	2	2	0	2400	2400	0
8/30/2024 16:39	44203	POIN_T2	0	0	0	0	0	0	-0.63	-0.51	2	2	0	2100	2100	0
8/30/2024 16:39	43103	SMIL_T2	4	4	0	0.23	0.38	0.15	0	0	0	0	0	0	0	0
8/30/2024 16:40	12801	MICK_T1	0	0	0	0	0	0	-0.81	-0.82	1	1	0	600	600	0
8/30/2024 16:40	12807	MICK_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/30/2024 16:41	12801	MICK_T1	0	0	0	0	0	0	-0.81	-0.82	1	1	0	600	600	0
8/30/2024 16:41	12802	MICK_T1	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
8/30/2024 16:41	12807	MICK_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/30/2024 16:41	44203	POIN_T2	0	0	0	0	0	0	-0.63	-0.51	2	2	0	2100	2100	0
8/30/2024 16:43	40201	BEGA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/30/2024 16:43	43504	WWIL_T1	9	9	0	0.52	0.46	-0.06	0.92	1	0	0	0	0	0	0
8/30/2024 16:43	43506	WWIL_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
8/30/2024 16:43	43505	WWIL_T1	32	29	-3	0.22	0.24	0.02	0	0	0	0	0	0	0	0
8/30/2024 16:46	67805	WLAN_T1	0	0	0	0	0	0	-1.09	-1.09	0	0	0	0	0	0
8/30/2024 16:53	60502	NMAN_T2	0	0	0	0	0	0	0.26	0.08	0	0	0	0	0	0
8/30/2024 16:55	67503	WEWI_T2	1	1	0	7.4	7.4	0	0.28	0.29	0	0	0	0	0	0
8/30/2024 16:55	67502	WEWI_T2	6	5	-1	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
8/30/2024 16:58	66505	SMAN_T2	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0	0
8/30/2024 16:58	66503	SMAN_T2	0	0	0	0	0	0	0.71	0.72	0	0	0	0	0	0
8/30/2024 16:59	67503	WEWI_T2	1	1	0	7.4	7.4	0	0.28	0.29	0	0	0	0	0	0
8/30/2024 16:59	64503	LAVI_T1	0	0	0	0	0	0	-1.25	-1.31	1	1	0	1200	1200	0
8/30/2024 16:59	67502	WEWI_T2	6	5	-1	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
8/30/2024 17:00	44802	EDAN_T2	2	5	3	0.1	0.15	0.05	-1.8	-1.86	0	0	0	0	0	0
8/30/2024 17:00	44801	EDAN_T2	184	242	58	0.49	0.55	0.06	0	0	0	0	0	0	0	0
8/30/2024 17:01	64503	LAVI_T1	0	0	0	0	0	0	-1.25	-1.31	1	1	0	1200	1200	0
8/30/2024 17:03	44802	EDAN_T2	2	5	3	0.1	0.15	0.05	-1.8	-1.86	0	0	0	0	0	0
8/30/2024 17:03	44801	EDAN_T2	184	242	58	0.49	0.55	0.06	0	0	0	0	0	0	0	0
8/30/2024 17:09	67401	WAKE_T2	0	2	2	0	0.2	0.2	-0.88	-0.86	0	0	0	0	0	0
8/30/2024 17:15	50105	HARR_T3	7	7	0	5.79	5.7	-0.09	0	0	0	0	0	0	0	0
8/30/2024 17:15	50107	HARR_T3	1	1	0	7.3	7.3	0	0	0	0	0	0	0	0	0
8/30/2024 17:15	50103	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/30/2024 17:15	50201	HARR_T3	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
8/30/2024 17:24	58705	ROSE_T2	4	5	1	1.35	1.18	-0.17	0	0	0	0	0	0	0	0
8/30/2024 17:24	58702	ROSE_T2	0	0	0	0	0	0	-1.21	-1.19	0	0	0	0	0	0
8/30/2024 17:24	47502	NECO_T1	1	1	0	0.6	0.5	-0.1	0.93	0.9	0	0	0	0	0	0
8/30/2024 17:30	16101	BING_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
8/30/2024 17:31	12006	HATF_T1	0	0	0	0	0	0	0.28	0.31	1	1	0	1200	1200	0
8/30/2024 17:32	62101	ELAN_T1	0	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0
8/30/2024 17:32	61501	EPET_T2	1	1	0	4.6	4.4	-0.2	0	0	0	0	0	0	0	0
8/30/2024 17:32	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 17:32	62102	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 17:34	12002	HATF_T1	0	0	0	0	0	0	-1.31	-1.28	1	1	0	1200	1200	0
8/30/2024 17:41	28102	TWLA_T2	4	6	2	0.23	0.32	0.09	0.25	0.23	0	0	0	0	0	0
8/30/2024 17:54	44202	POIN_T2	0	0	0	0	0	0	-0.37	-0.37	1	1	0	1200	1200	0
8/30/2024 17:56	62101	ELAN_T1	1	2	1	2.9	0.45	-2.45	0	0	0	0	0	0	0	0
8/30/2024 17:56	62102	ELAN_T1	0	0	0	0	0	0	1.14	1.18	0	0	0	0	0	0
8/30/2024 18:04	47802	MOCA_T2	7	6	-1	0.1	0.1	0	-0.78	-0.79	0	0	0	0	0	0
8/30/2024 18:07	47802	MOCA_T2	7	6	-1	0.1	0.1	0	-0.79	-0.77	0	0	0	0	0	0
8/30/2024 18:18	52404	GRPA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
8/30/2024 18:18	52403	GRPA_T2	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
8/30/2024 18:18	52402	GRPA_T2	3	3	0	0.47	0.63	0.16	-0.62	-0.63	0	0	0	0	0	0
8/30/2024 18:36	64202	KINZ_T1	2	5	3	0.25	0.3	0.05	0	0	0	0	0	0	0	0
8/30/2024 18:36	64201	KINZ_T1	5	7	2	0.32	0.4	0.08	-0.6	-0.52	3	3	0	1500	1500	0
8/30/2024 18:36	64204	KINZ_T1	2	4	2	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
8/30/2024 20:05	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/30/2024 20:09	66703	STRA_T1	0	0	0	0	0	0	-0.67	-0.74	0	0	0	0	0	0
8/30/2024 20:12	66701	STRA_T1	0	0	0	0	0	0	0.42	0.37	2	2	0	1200	1200	0
8/30/2024 20:13	66703	STRA_T1	0	0	0	0	0	0	-0.67	-0.74	0	0	0	0	0	0
8/30/2024 20:17	21501	CEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/30/2024 20:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 20:38	63501	HEID_TBK1-2	24	24	0	0.96	0.61	-0.35	-0.15	-0.09	1	1	0	900	900	0
8/30/2024 20:39	63501	HEID_TBK1-2	24	24	0	0.96	0.61	-0.35	-0.15	-0.09	1	1	0	900	900	0
8/30/2024 20:43	40601	PIGR_T1	12	1	-11	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
8/30/2024 20:43	40602	PIGR_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
8/30/2024 20:46	53501	EVIL_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	1	1	0	600	600	0
8/30/2024 20:48	44201	POIN_T1	0	0	0	0	0	0	-1.73	-1.68	2	2	0	2100	2100	0
8/30/2024 20:48	53501	EVIL_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	1	1	0	600	600	0
8/30/2024 20:49	53501	EVIL_T2	0	1	1	0	0.2	0.2	-0.02	-0.02	4	4	0	2400	2400	0
8/30/2024 20:51	53501	EVIL_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	1	1	0	600	600	0
8/30/2024 21:01	54601	SUMM_T2	8	11	3	0.29	0.39	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:01	54603	SUMM_T2	0	0	0	0	0	0	0.1	0.08	1	1	0	900	900	0
8/30/2024 21:02	15203	SFAR_T2	0	0	0	0	0	0	-1.02	-1.05	0	0	0	0	0	0
8/30/2024 21:04	50105	HARR_T3	6	7	1	6.15	6.13	-0.02	0	0	0	0	0	0	0	0
8/30/2024 21:04	50201	HARR_T3	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:04	50107	HARR_T3	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
8/30/2024 21:04	50202	HARR_T3	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:04	50103	HARR_T3	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
8/30/2024 21:06	64605	LEOL_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
8/30/2024 21:08	65502	MOJO_T2	233	313	80	0.19	0.31	0.12	0	0	0	0	0	0	0	0
8/30/2024 21:08	65503	MOJO_T2	9	89	80	0.1	0.16	0.06	0.14	0.18	0	0	0	0	0	0
8/30/2024 21:09	12605	MACA_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
8/30/2024 21:09	42001	MNVL_T2	68	153	85	0.44	0.43	-0.01	-0.01	-0.05	0	0	0	0	0	0
8/30/2024 21:09	42002	MNVL_T2	1	1	0	2.2	2	-0.2	0	0	0	0	0	0	0	0
8/30/2024 21:10	10602	BLGL_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
8/30/2024 21:10	12605	MACA_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
8/30/2024 21:12	15204	SFAR_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
8/30/2024 21:12	61701	ELIZ_T1	1	1	0	4.4	4.4	0	1.96	1.75	0	0	0	0	0	0
8/30/2024 21:12	46602	LACR_T1	0	1	1	0	0.1	0.1	-0.81	-0.83	0	0	0	0	0	0
8/30/2024 21:13	15203	SFAR_T2	0	0	0	0	0	0	-1.05	-1.04	0	0	0	0	0	0
8/30/2024 21:13	11604	CEAL_T1	6	5	-1	0.33	0	-0.33	0	0	0	0	0	0	0	0
8/30/2024 21:13	14401	SSLA_T1	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
8/30/2024 21:13	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 21:13	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/30/2024 21:15	63401	HONY_T1	0	0	0	0	0	0	-0.07	-0.2	1	1	0	600	600	0
8/30/2024 21:15	17901	BART_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 21:15	67503	WEWI_T2	1	1	0	6.8	7.6	0.8	0	0	0	0	0	0	0	0
8/30/2024 21:15	67502	WEWI_T2	6	1	-5	0.12	0.1	-0.02	-1.13	-1.16	1	1	0	900	900	0
8/30/2024 21:16	66303	MCGO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/30/2024 21:16	16101	BING_T2	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
8/30/2024 21:16	16503	STRO_T2	0	0	0	0	0	0	0.35	0.42	0	0	0	0	0	0
8/30/2024 21:16	45602	WOOL_T1	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
8/30/2024 21:16	66301	MCGO_T2	0	0	0	0	0	0	-1.5	-1.49	0	0	0	0	0	0
8/30/2024 21:16	44203	POIN_T2	0	0	0	0	0	0	-0.81	-0.82	2	2	0	2100	2100	0
8/30/2024 21:16	16102	BING_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
8/30/2024 21:17	43506	WWIL_T1	9	9	0	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
8/30/2024 21:17	61303	EARL_T1	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
8/30/2024 21:17	43504	WWIL_T1	4	5	1	0.2	0.18	-0.02	0.82	0.82	0	0	0	0	0	0
8/30/2024 21:17	24801	VALM_T1	0	0	0	0	0	0	-0.29	-0.19	0	0	0	0	0	0
8/30/2024 21:17	43505	WWIL_T1	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:17	46903	MNTG_T2	0	0	0	0	0	0	-0.04	-0.02	1	1	0	600	600	0
8/30/2024 21:18	14801	TREI_T2	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
8/30/2024 21:18	64503	LAVI_T1	0	0	0	0	0	0	-0.2	-0.28	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/30/2024 21:18	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:18	67402	WAKE_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
8/30/2024 21:18	14401	SSLA_T1	0	1	1	0	0.2	0.2	-0.42	-0.44	0	0	0	0	0	0
8/30/2024 21:18	15203	SFAR_T2	0	0	0	0	0	0	-1.05	-1.04	0	0	0	0	0	0
8/30/2024 21:18	60101	COCA_T1	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
8/30/2024 21:19	13503	MCMI_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
8/30/2024 21:19	15603	NSTR_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
8/30/2024 21:19	15604	NSTR_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
8/30/2024 21:19	44203	POIN_T2	0	0	0	0	0	0	-0.81	-0.82	2	2	0	2100	2100	0
8/30/2024 21:19	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 21:19	10805	CHIH_T2	1	1	0	7.3	7.5	0.2	-1.25	-1.05	1	1	0	600	600	0
8/30/2024 21:20	20403	ASHF_T2	0	4	4	0	0.15	0.15	0.36	0.3	0	0	0	0	0	0
8/30/2024 21:20	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:20	14404	SSLA_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
8/30/2024 21:20	16004	DORN_T1	0	0	0	0	0	0	-0.69	-0.69	1	1	0	1200	1200	0
8/30/2024 21:20	14401	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/30/2024 21:20	20401	ASHF_T2	2	9	7	0.35	0.39	0.04	0	0	0	0	0	0	0	0
8/30/2024 21:20	20402	ASHF_T2	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
8/30/2024 21:21	67502	WEWI_T2	6	1	-5	0.12	0.1	-0.02	-1.16	-1.17	1	1	0	900	900	0
8/30/2024 21:21	25402	LAHA_T2	0	0	0	0	0	0	-0.84	-0.82	0	0	0	0	0	0
8/30/2024 21:21	12807	MICK_T1	0	1	1	0	0.2	0.2	-0.72	-0.71	0	0	0	0	0	0
8/30/2024 21:21	44203	POIN_T2	0	0	0	0	0	0	-0.82	-0.91	2	2	0	2100	2100	0
8/30/2024 21:21	46801	HEPB_T2	26	28	2	0.32	0.33	0.01	0.79	0.79	0	0	0	0	0	0
8/30/2024 21:21	66901	SHIL_T2	0	0	0	0	0	0	-1.35	-1.36	1	1	0	1200	1200	0
8/30/2024 21:21	14401	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/30/2024 21:21	17901	BART_T1	0	0	0	0	0	0	-0.02	0.02	1	1	0	1200	1200	0
8/30/2024 21:21	67503	WEWI_T2	1	1	0	6.8	7.6	0.8	0	0	0	0	0	0	0	0
8/30/2024 21:21	46803	HEPB_T2	18	15	-3	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
8/30/2024 21:21	24204	PROV_T3	1	1	0	6.2	6.4	0.2	0	0	0	0	0	0	0	0
8/30/2024 21:21	24201	PROV_T3	1	1	0	7	7	0	-1.27	-1.3	1	1	0	1200	1200	0
8/30/2024 21:21	14404	SSLA_T1	0	0	0	0	0	0	0.02	0.11	0	0	0	0	0	0
8/30/2024 21:21	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:22	29402	BELT_T1	70	137	67	0.51	0.67	0.16	0	0	0	0	0	0	0	0
8/30/2024 21:22	50201	HARR_T3	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:22	45902	AUBU_T1	15	11	-4	0.21	0.12	-0.09	0	0	0	0	0	0	0	0
8/30/2024 21:22	62607	ENGL_T1	0	0	0	0	0	0	-0.7	-0.73	1	1	0	300	300	0
8/30/2024 21:22	50107	HARR_T3	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:22	67502	WEWI_T2	6	1	-5	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
8/30/2024 21:22	63401	HONY_T1	0	0	0	0	0	0	-0.2	-0.29	1	1	0	600	600	0
8/30/2024 21:22	50202	HARR_T3	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:22	50105	HARR_T3	7	6	-1	5.4	6.28	0.88	0	0	0	0	0	0	0	0
8/30/2024 21:22	45501	DERR_T2	0	1	1	0	0	0	0.21	0.2	1	1	0	600	600	0
8/30/2024 21:22	67503	WEWI_T2	1	1	0	6.8	7.6	0.8	0.21	0.22	0	0	0	0	0	0
8/30/2024 21:22	67805	WLAN_T1	39	14	-25	0.12	0.1	-0.02	-1.24	-1.25	0	0	0	0	0	0
8/30/2024 21:22	13905	SEID_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	1200	1200	0
8/30/2024 21:22	45901	AUBU_T1	2	4	2	0.15	0.13	-0.02	0.91	0.89	0	0	0	0	0	0
8/30/2024 21:22	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 21:22	67203	TEHI_T1	0	0	0	0	0	0	1.82	1.75	1	1	0	900	900	0
8/30/2024 21:22	50103	HARR_T3	2	2	0	0.15	0.2	0.05	0	0	1	1	0	1200	1200	0
8/30/2024 21:23	12801	MICK_T1	0	0	0	0	0	0	-0.95	-0.98	1	1	0	600	600	0
8/30/2024 21:23	45902	AUBU_T1	15	11	-4	0.21	0.12	-0.09	-0.89	-0.96	1	1	0	600	600	0
8/30/2024 21:23	21705	SUBU_T1	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:23	65206	PRIN_T4	6	1	-5	0.1	2.4	2.3	0	0	0	0	0	0	0	0
8/30/2024 21:23	14404	SSLA_T1	0	0	0	0	0	0	0.01	0.05	0	0	0	0	0	0
8/30/2024 21:23	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:23	67502	WEWI_T2	6	1	-5	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
8/30/2024 21:23	66001	RHEE_T2	0	0	0	0	0	0	-1.7	-1.71	2	2	0	2100	2100	0
8/30/2024 21:23	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
8/30/2024 21:23	65207	PRIN_T4	10	3	-7	0.18	0.3	0.12	0	0	2	2	0	1800	1800	0
8/30/2024 21:23	14401	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/30/2024 21:23	45901	AUBU_T1	2	4	2	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
8/30/2024 21:23	21703	SUBU_T1	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
8/30/2024 21:23	12807	MICK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/30/2024 21:23	21701	SUBU_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
8/30/2024 21:23	67503	WEWI_T2	1	1	0	6.8	7.6	0.8	0.42	0.43	0	0	0	0	0	0
8/30/2024 21:24	56501	ROCK_T2	2	3	1	0.2	0.47	0.27	0.41	0.38	0	0	0	0	0	0
8/30/2024 21:24	17901	BART_T1	0	0	0	0	0	0	0.02	0.01	1	1	0	1200	1200	0
8/30/2024 21:24	44203	POIN_T2	0	0	0	0	0	0	-0.82	-0.91	2	2	0	2100	2100	0
8/30/2024 21:24	55102	WERT_T2	0	0	0	0	0	0	0.15	0.09	0	0	0	0	0	0
8/30/2024 21:24	44301	BEAV_T2	0	0	0	0	0	0	-0.85	-0.82	1	1	0	600	600	0
8/30/2024 21:24	64903	MILL_T2	0	0	0	0	0	0	0.37	0.44	0	0	0	0	0	0
8/30/2024 21:24	46901	MNTG_T2	0	0	0	0	0	0	0.14	0.18	1	1	0	1200	1200	0
8/30/2024 21:24	46102	MACI_T1	0	0	0	0	0	0	0.84	0.86	0	0	0	0	0	0
8/30/2024 21:25	45902	AUBU_T1	15	11	-4	0.21	0.12	-0.09	-0.89	-0.96	1	1	0	600	600	0
8/30/2024 21:25	43106	SMIL_T2	0	0	0	0	0	0	-0.14	-0.14	1	1	0	1200	1200	0
8/30/2024 21:25	59101	WALK_T2	0	0	0	0	0	0	-0.11	-0.17	0	0	0	0	0	0
8/30/2024 21:25	43103	SMIL_T2	3	4	1	0.17	0.48	0.31	0	0	0	0	0	0	0	0
8/30/2024 21:25	67103	SPRI_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
8/30/2024 21:25	45901	AUBU_T1	2	4	2	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
8/30/2024 21:25	58702	ROSE_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
8/30/2024 21:25	43105	SMIL_T2	3	8	5	0.1	0.14	0.04	0	0	0	0	0	0	0	0
8/30/2024 21:25	67503	WEWI_T2	1	1	0	6.8	7.6	0.8	0	0	0	0	0	0	0	0
8/30/2024 21:25	26803	JAFR_T1	0	0	0	0	0	0	-0.66	-0.55	1	1	0	900	900	0
8/30/2024 21:25	67502	WEWI_T2	6	1	-5	0.12	0.1	-0.02	-1.16	-1.17	1	1	0	900	900	0
8/30/2024 21:25	43102	SMIL_T2	3	5	2	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
8/30/2024 21:25	58705	ROSE_T2	4	5	1	2.05	1.96	-0.09	0	0	0	0	0	0	0	0
8/30/2024 21:25	12002	HATF_T1	0	0	0	0	0	0	-1.02	-1.09	1	1	0	1200	1200	0
8/30/2024 21:26	20603	GRWO_T2	14	4	-10	0.14	0.1	-0.04	-0.57	-0.59	1	1	0	900	900	0
8/30/2024 21:26	43801	SWIL_T1	24	25	1	0.46	0.44	-0.02	0	0	0	0	0	0	0	0
8/30/2024 21:26	43101	SMIL_T2	0	0	0	0	0	0	-0.48	-0.43	0	0	0	0	0	0
8/30/2024 21:26	15702	TANN_T2	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
8/30/2024 21:26	55102	WERT_T2	0	0	0	0	0	0	0.15	0.09	0	0	0	0	0	0
8/30/2024 21:26	41901	REED_T1	9	9	0	0.8	0.83	0.03	0	0	0	0	0	0	0	0
8/30/2024 21:26	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 21:26	45901	AUBU_T1	2	4	2	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
8/30/2024 21:26	43103	SMIL_T2	3	4	1	0.17	0.48	0.31	0	0	0	0	0	0	0	0
8/30/2024 21:26	59003	MIFF_T1	1	1	0	0.1	0.4	0.3	1.93	0.58	0	0	0	0	0	0
8/30/2024 21:26	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 21:26	15703	TANN_T2	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
8/30/2024 21:26	43802	SWIL_T1	0	0	0	0	0	0	0.69	0.72	0	0	0	0	0	0
8/30/2024 21:26	45902	AUBU_T1	15	11	-4	0.21	0.12	-0.09	-1.78	-1.92	2	2	0	1200	1200	0
8/30/2024 21:26	43102	SMIL_T2	3	5	2	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
8/30/2024 21:26	29402	BELT_T1	70	137	67	0.51	0.67	0.16	0	0	0	0	0	0	0	0
8/30/2024 21:26	59201	THOM_T1	11	12	1	0.24	0.29	0.05	0	0	0	0	0	0	0	0
8/30/2024 21:26	59002	MIFF_T1	5	5	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
8/30/2024 21:26	44202	POIN_T2	0	0	0	0	0	0	-0.38	-0.37	1	1	0	1200	1200	0
8/30/2024 21:26	22904	HARW_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
8/30/2024 21:26	21206	ECAR_T2	1	6	5	7.7	7.9	0.2	-0.01	0.01	0	0	0	0	0	0
8/30/2024 21:26	12807	MICK_T1	0	1	1	0	0.2	0.2	-0.72	-0.71	0	0	0	0	0	0
8/30/2024 21:26	43105	SMIL_T2	3	8	5	0.1	0.14	0.04	0	0	0	0	0	0	0	0
8/30/2024 21:26	54505	ENOL_T2	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
8/30/2024 21:26	41902	REED_T1	0	0	0	0	0	0	0.35	0.35	1	1	0	900	900	0
8/30/2024 21:26	59202	THOM_T1	57	74	17	0.19	0.2	0.01	0	0	0	0	0	0	0	0
8/30/2024 21:26	63402	HONY_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
8/30/2024 21:26	54503	ENOL_T2	0	0	0	0	0	0	-1.11	-1.15	1	1	0	600	600	0
8/30/2024 21:26	63403	HONY_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
8/30/2024 21:27	47001	HUGH_T2	3	3	0	8.4	8.47	0.07	-0.64	-0.68	0	0	0	0	0	0
8/30/2024 21:27	66504	SMAN_T2	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
8/30/2024 21:27	54506	ENOL_T2	0	0	0	0	0	0	0.43	0.51	1	1	0	600	600	0
8/30/2024 21:27	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/30/2024 21:27	14801	TREI_T2	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
8/30/2024 21:27	54505	ENOL_T2	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
8/30/2024 21:27	60101	COCA_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
8/30/2024 21:27	55401	SHER_T1	36	26	-10	0.26	0.12	-0.14	-0.31	-0.31	0	0	0	0	0	0
8/30/2024 21:27	44201	POIN_T1	0	1	1	0	0.1	0.1	-1.7	-1.72	2	2	0	2100	2100	0
8/30/2024 21:27	12807	MICK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/30/2024 21:27	55405	SHER_T1	16	31	15	1.03	0.62	-0.41	0	0	0	0	0	0	0	0
8/30/2024 21:27	12801	MICK_T1	0	0	0	0	0	0	-0.95	-0.98	1	1	0	600	600	0
8/30/2024 21:27	66505	SMAN_T2	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
8/30/2024 21:27	12006	HATF_T1	0	0	0	0	0	0	0.46	0.41	0	0	0	0	0	0
8/30/2024 21:28	58402	MORO_T1	0	0	0	0	0	0	0.68	0.49	1	1	0	900	900	0
8/30/2024 21:28	43102	SMIL_T2	3	5	2	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
8/30/2024 21:28	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:28	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 21:28	51201	MTON_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
8/30/2024 21:28	43105	SMIL_T2	3	8	5	0.1	0.14	0.04	0	0	0	0	0	0	0	0
8/30/2024 21:28	46003	BERW_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
8/30/2024 21:28	43108	SMIL_T2	0	0	0	0	0	0	-1	-0.97	1	1	0	1200	1200	0
8/30/2024 21:28	12807	MICK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/30/2024 21:28	12801	MICK_T1	0	0	0	0	0	0	-0.95	-0.98	1	1	0	600	600	0
8/30/2024 21:28	29402	BELT_T1	70	137	67	0.51	0.67	0.16	0	0	0	0	0	0	0	0
8/30/2024 21:28	14401	SSLA_T1	0	1	1	0	0.2	0.2	-0.44	-0.42	0	0	0	0	0	0
8/30/2024 21:28	43103	SMIL_T2	3	4	1	0.17	0.48	0.31	0	0	0	0	0	0	0	0
8/30/2024 21:28	47001	HUGH_T2	3	3	0	8.4	8.47	0.07	-0.64	-0.68	0	0	0	0	0	0
8/30/2024 21:28	40504	CRES_T1	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
8/30/2024 21:28	44201	POIN_T1	0	1	1	0	0.1	0.1	-1.7	-1.72	2	2	0	2100	2100	0
8/30/2024 21:28	46002	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:28	12802	MICK_T1	0	0	0	0	0	0	-1.17	-1.17	0	0	0	0	0	0
8/30/2024 21:28	46004	BERW_T2	0	0	0	0	0	0	-0.38	-0.44	0	0	0	0	0	0
8/30/2024 21:29	57106	SPHI_T2	3	3	0	1.73	1.4	-0.33	0	0	0	0	0	0	0	0
8/30/2024 21:29	53902	HALI_T2	1	1	0	5.6	5.1	-0.5	0	0	0	0	0	0	0	0
8/30/2024 21:29	53903	HALI_T2	2	2	0	1.35	1.5	0.15	0	0	0	0	0	0	0	0
8/30/2024 21:29	57403	SPAN_T1	31	29	-2	0.31	0.31	0	0.19	0.25	0	0	0	0	0	0
8/30/2024 21:29	12801	MICK_T1	0	0	0	0	0	0	-0.95	-0.98	1	1	0	600	600	0
8/30/2024 21:29	40302	TAMA_T3	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:29	57401	SPAN_T1	3	3	0	3.57	3.3	-0.27	0	0	0	0	0	0	0	0
8/30/2024 21:29	54505	ENOL_T2	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
8/30/2024 21:29	60101	COCA_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
8/30/2024 21:29	64903	MILL_T2	0	0	0	0	0	0	0.37	0.44	0	0	0	0	0	0
8/30/2024 21:29	53901	HALI_T2	1	1	0	1.1	1	-0.1	-0.96	-0.98	0	0	0	0	0	0
8/30/2024 21:29	10801	CHIH_T1	0	0	0	0	0	0	-0.61	-0.64	1	1	0	900	900	0
8/30/2024 21:29	58701	ROSE_T2	0	0	0	0	0	0	-1.33	-1.31	1	1	0	600	600	0
8/30/2024 21:29	40301	TAMA_T3	1	1	0	0	0	0	0.89	0.84	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/30/2024 21:29	64101	REFR_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
8/30/2024 21:29	58705	ROSE_T2	4	5	1	2.05	1.96	-0.09	0	0	0	0	0	0	0	0
8/30/2024 21:29	57101	SPHI_T2	6	0	-6	0.22	0	-0.22	0	0	0	0	0	0	0	0
8/30/2024 21:29	57104	SPHI_T2	1	1	0	4	2	-2	-1.72	-1.7	1	1	0	900	900	0
8/30/2024 21:29	12807	MICK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/30/2024 21:29	54503	ENOL_T2	0	0	0	0	0	0	-1.11	-1.15	1	1	0	600	600	0
8/30/2024 21:29	55508	HERS_T2	2	2	0	1.6	1.65	0.05	0	0	0	0	0	0	0	0
8/30/2024 21:30	65702	RVIL_T2	0	0	0	0	0	0	-0.36	-0.4	1	1	0	600	600	0
8/30/2024 21:30	67803	WLAN_T1	0	0	0	0	0	0	-0.63	-0.65	0	0	0	0	0	0
8/30/2024 21:30	55401	SHER_T1	0	29	29	0	0.15	0.15	0	0	0	0	0	0	0	0
8/30/2024 21:30	62601	ENGL_T1	0	0	0	0	0	0	-0.26	-0.18	0	0	0	0	0	0
8/30/2024 21:30	66505	SMAN_T2	3	3	0	0.2	0.47	0.27	0	0	0	0	0	0	0	0
8/30/2024 21:30	59101	WALK_T2	0	0	0	0	0	0	-0.11	-0.17	0	0	0	0	0	0
8/30/2024 21:30	15204	SFAR_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
8/30/2024 21:30	67805	WLAN_T1	14	0	-14	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:30	54503	ENOL_T2	0	0	0	0	0	0	-1.11	-1.15	1	1	0	600	600	0
8/30/2024 21:30	55405	SHER_T1	11	31	20	1.09	0.67	-0.42	-0.17	-0.17	0	0	0	0	0	0
8/30/2024 21:30	47502	NECO_T1	1	1	0	0.8	0.9	0.1	0.85	0.86	0	0	0	0	0	0
8/30/2024 21:30	54505	ENOL_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:30	20402	ASHF_T2	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
8/30/2024 21:30	20403	ASHF_T2	0	4	4	0	0.15	0.15	0.3	0.38	0	0	0	0	0	0
8/30/2024 21:30	20201	JERM_T1	0	0	0	0	0	0	1.38	1.48	0	0	0	0	0	0
8/30/2024 21:30	20401	ASHF_T2	1	9	8	0.2	0.39	0.19	0	0	0	0	0	0	0	0
8/30/2024 21:30	66504	SMAN_T2	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
8/30/2024 21:31	66303	MCGO_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/30/2024 21:31	46901	MNTG_T2	0	0	0	0	0	0	0.14	0.18	1	1	0	1200	1200	0
8/30/2024 21:31	66301	MCGO_T2	0	0	0	0	0	0	-2.99	-2.99	0	0	0	0	0	0
8/30/2024 21:31	54503	ENOL_T2	0	0	0	0	0	0	-1.11	-1.15	1	1	0	600	600	0
8/30/2024 21:31	67805	WLAN_T1	14	0	-14	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:31	42201	SHEN_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
8/30/2024 21:31	48302	ORWI_T2	2	2	0	0.85	0.8	-0.05	-0.61	-0.61	0	0	0	0	0	0
8/30/2024 21:31	47101	MARL_T1	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
8/30/2024 21:31	20401	ASHF_T2	1	9	8	0.2	0.39	0.19	0	0	0	0	0	0	0	0
8/30/2024 21:31	22002	BOHE_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
8/30/2024 21:31	54505	ENOL_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:31	43202	MVIL_T2	63	90	27	0.75	0.82	0.07	-0.65	-0.64	0	0	0	0	0	0
8/30/2024 21:31	20403	ASHF_T2	0	4	4	0	0.15	0.15	0.3	0.38	0	0	0	0	0	0
8/30/2024 21:31	12302	LANA_T2	0	0	0	0	0	0	-1.43	-1.42	2	2	0	1500	1500	0
8/30/2024 21:31	40201	BEGA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:31	46206	DANV_T2	0	0	0	0	0	0	0.38	0.38	2	2	0	2100	2100	0
8/30/2024 21:31	48902	FOSP_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
8/30/2024 21:31	43802	SWIL_T1	0	0	0	0	0	0	0.69	0.72	0	0	0	0	0	0
8/30/2024 21:31	20402	ASHF_T2	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
8/30/2024 21:31	46203	DANV_T2	1	1	0	6.8	7.3	0.5	0	0	0	0	0	0	0	0
8/30/2024 21:31	67803	WLAN_T1	0	0	0	0	0	0	-0.63	-0.65	0	0	0	0	0	0
8/30/2024 21:31	43801	SWIL_T1	19	31	12	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
8/30/2024 21:32	40801	EXCH_T2	2	3	1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
8/30/2024 21:32	67805	WLAN_T1	14	0	-14	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:32	64602	LEOL_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
8/30/2024 21:32	46206	DANV_T2	0	0	0	0	0	0	0.38	0.38	2	2	0	2100	2100	0
8/30/2024 21:32	46301	ROHR_T1	113	148	35	0.28	0.33	0.05	0	0	0	0	0	0	0	0
8/30/2024 21:32	40601	PIGR_T1	4	0	-4	0.1	0	-0.1	0	-0.07	0	0	0	0	0	0
8/30/2024 21:32	65001	NEFF_T2	3	4	1	0.1	0.13	0.03	-1.09	-1.09	1	1	0	1200	1200	0
8/30/2024 21:32	46302	ROHR_T1	5	4	-1	1.7	2.2	0.5	0.24	0.25	0	0	0	0	0	0
8/30/2024 21:32	67503	WEWI_T2	1	1	0	7.6	7.7	0.1	0.21	0.22	0	0	0	0	0	0
8/30/2024 21:32	48902	FOSP_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
8/30/2024 21:32	48901	FOSP_T2	0	0	0	0	0	0	-0.36	-0.38	1	1	0	600	600	0
8/30/2024 21:32	60102	COCA_T1	0	0	0	0	0	0	-0.24	-0.21	2	2	0	1200	1200	0
8/30/2024 21:32	46004	BERW_T2	0	0	0	0	0	0	-0.38	-0.44	0	0	0	0	0	0
8/30/2024 21:32	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 21:32	55002	NEWP_T1	6	6	0	1.32	1.4	0.08	0	0	0	0	0	0	0	0
8/30/2024 21:32	46203	DANV_T2	1	1	0	6.8	7.3	0.5	0	0	0	0	0	0	0	0
8/30/2024 21:32	55001	NEWP_T1	0	0	0	0	0	0	-0.12	-0.1	0	0	0	0	0	0
8/30/2024 21:32	67804	WLAN_T1	0	0	0	0	0	0	-0.83	-0.86	0	0	0	0	0	0
8/30/2024 21:32	45501	DERR_T2	1	0	-1	1	0	-1	0.21	0.2	1	1	0	600	600	0
8/30/2024 21:32	67502	WEWI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:32	64902	MILL_T2	0	0	0	0	0	0	-0.36	-0.36	1	1	0	900	900	0
8/30/2024 21:32	63305	GREE_T1	0	0	0	0	0	0	-1.09	-1.1	0	0	0	0	0	0
8/30/2024 21:32	40602	PIGR_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/30/2024 21:32	15203	SFAR_T2	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
8/30/2024 21:32	62106	ELAN_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/30/2024 21:32	62101	ELAN_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/30/2024 21:32	62105	ELAN_T1	55	8	-47	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
8/30/2024 21:32	40802	EXCH_T2	3	3	0	0.13	0.13	0	-0.45	-0.44	0	0	0	0	0	0
8/30/2024 21:33	57006	WHIH_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:33	46302	ROHR_T1	5	4	-1	1.7	2.2	0.5	0	0	0	0	0	0	0	0
8/30/2024 21:33	58705	ROSE_T2	5	5	0	1.8	1.98	0.18	0	0	0	0	0	0	0	0
8/30/2024 21:33	47403	PENS_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:33	44203	PENN_T2	0	0	0	0	0	0	-0.82	-0.91	2	2	0	2100	2100	0
8/30/2024 21:33	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
8/30/2024 21:33	46301	ROHR_T1	113	148	35	0.28	0.33	0.05	0.26	0.26	0	0	0	0	0	0
8/30/2024 21:33	57002	WHIH_T2	0	0	0	0	0	0	-1.26	-1.3	1	1	0	1200	1200	0
8/30/2024 21:33	44802	EDAN_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
8/30/2024 21:33	64701	LITI_T1	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
8/30/2024 21:33	63304	GREE_T1	0	0	0	0	0	0	-1.53	-1.53	0	0	0	0	0	0
8/30/2024 21:33	58701	ROSE_T2	0	0	0	0	0	0	-2.65	-2.62	2	2	0	1200	1200	0
8/30/2024 21:33	15703	TANN_T2	1	1	0	5.7	5.2	-0.5	0	0	0	0	0	0	0	0
8/30/2024 21:33	43802	SWIL_T1	0	0	0	0	0	0	1.38	1.44	0	0	0	0	0	0
8/30/2024 21:33	40602	PIGR_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
8/30/2024 21:33	58401	MORO_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	600	600	0
8/30/2024 21:33	61803	EELI_T2	0	0	0	0	0	0	1.08	1.01	0	0	0	0	0	0
8/30/2024 21:33	54601	SUMM_T2	9	5	-4	0.36	0.26	-0.1	-1.61	-1.61	2	2	0	2100	2100	0
8/30/2024 21:33	48902	FOSP_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
8/30/2024 21:33	57003	WHIH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:33	47401	PENS_T1	0	0	0	0	0	0	0.85	0.76	0	0	0	0	0	0
8/30/2024 21:33	15702	TANN_T2	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
8/30/2024 21:33	20603	GRWO_T2	4	10	6	0.1	0.14	0.04	-0.57	-0.59	1	1	0	900	900	0
8/30/2024 21:33	61801	EELI_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
8/30/2024 21:33	44801	EDAN_T2	25	78	53	0.21	0.26	0.05	0	0	0	0	0	0	0	0
8/30/2024 21:33	40601	PIGR_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:33	43801	SWIL_T1	19	31	12	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
8/30/2024 21:34	67805	WLAN_T1	14	0	-14	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:34	64503	LAVI_T1	0	0	0	0	0	0	-0.28	-0.34	1	1	0	1200	1200	0
8/30/2024 21:34	58401	MORO_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	600	600	0
8/30/2024 21:34	65804	RTWN_T1	0	0	0	0	0	0	0.33	0.34	1	1	0	600	600	0
8/30/2024 21:34	64202	KINZ_T1	10	2	-8	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
8/30/2024 21:34	46001	BERW_T1	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
8/30/2024 21:34	62106	ELAN_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/30/2024 21:34	42503	ALTA_T2	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
8/30/2024 21:34	62101	ELAN_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/30/2024 21:34	64201	KINZ_T1	12	5	-7	0.33	0.22	-0.11	-0.35	-0.41	2	2	0	1200	1200	0
8/30/2024 21:34	12807	MICK_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/30/2024 21:34	53802	MBRG_T2	0	0	0	0	0	0	0.81	0.74	0	0	0	0	0	0
8/30/2024 21:34	67201	TEHI_T1	0	0	0	0	0	0	-0.04	-0.35	1	1	0	900	900	0
8/30/2024 21:34	62105	ELAN_T1	55	8	-47	0.11	0.1	-0.01	0.78	0.76	0	0	0	0	0	0
8/30/2024 21:34	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 21:34	64802	MONE_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
8/30/2024 21:34	20401	ASHF_T2	1	9	8	0.2	0.39	0.19	0	0	0	0	0	0	0	0
8/30/2024 21:34	67605	WARW_T1	3	8	5	0.5	0.25	-0.25	-0.9	-0.94	0	0	0	0	0	0
8/30/2024 21:34	20403	ASHF_T2	0	4	4	0	0.15	0.15	0.3	0.38	0	0	0	0	0	0
8/30/2024 21:34	64204	KINZ_T1	14	1	-13	0.26	0.4	0.14	0	0	0	0	0	0	0	0
8/30/2024 21:34	48902	FOSP_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
8/30/2024 21:34	63305	GREE_T1	0	0	0	0	0	0	-1.09	-1.1	0	0	0	0	0	0
8/30/2024 21:34	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.64	0	0	0	0	0	0
8/30/2024 21:34	49803	UNIV_T1	1	1	0	6.1	6	-0.1	-0.79	-0.76	0	0	0	0	0	0
8/30/2024 21:34	53601	DALM_T2	1	1	0	0.5	0.9	0.4	-0.01	0	0	0	0	0	0	0
8/30/2024 21:34	12802	MICK_T1	0	0	0	0	0	0	-1.17	-1.17	0	0	0	0	0	0
8/30/2024 21:34	20402	ASHF_T2	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
8/30/2024 21:34	67803	WLAN_T1	0	0	0	0	0	0	-0.63	-0.65	0	0	0	0	0	0
8/30/2024 21:35	12807	MICK_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/30/2024 21:35	54505	ENOL_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:35	40501	CRES_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:35	20402	ASHF_T2	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
8/30/2024 21:35	54503	ENOL_T2	0	0	0	0	0	0	-1.11	-1.15	1	1	0	600	600	0
8/30/2024 21:35	48902	FOSP_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
8/30/2024 21:35	45802	HEGI_T2	45	42	-3	1.02	0.86	-0.16	0.69	0.71	0	0	0	0	0	0
8/30/2024 21:35	43202	MVIL_T2	63	90	27	0.75	0.82	0.07	-0.65	-0.64	0	0	0	0	0	0
8/30/2024 21:35	64204	KINZ_T1	14	1	-13	0.26	0.4	0.14	0	0	0	0	0	0	0	0
8/30/2024 21:35	67605	WARW_T1	3	8	5	0.5	0.25	-0.25	-0.9	-0.94	0	0	0	0	0	0
8/30/2024 21:35	42201	SHEN_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
8/30/2024 21:35	20403	ASHF_T2	0	4	4	0	0.15	0.15	0.6	0.76	0	0	0	0	0	0
8/30/2024 21:35	20401	ASHF_T2	1	9	8	0.2	0.39	0.19	0	0	0	0	0	0	0	0
8/30/2024 21:35	65503	MOJO_T2	40	9	-31	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
8/30/2024 21:35	57403	SPAN_T1	20	87	67	0.29	0.31	0.02	0.19	0.25	0	0	0	0	0	0
8/30/2024 21:35	67805	WLAN_T1	14	0	-14	0.1	0	-0.1	-1.24	-1.25	0	0	0	0	0	0
8/30/2024 21:35	40801	EXCH_T2	2	3	1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
8/30/2024 21:35	61502	EPET_T1	0	0	0	0	0	0	-0.77	-0.84	0	0	0	0	0	0
8/30/2024 21:35	64201	KINZ_T1	12	5	-7	0.33	0.22	-0.11	0	0	0	0	0	0	0	0
8/30/2024 21:35	65502	MOJO_T2	260	229	-31	0.26	0.19	-0.07	-1.65	-1.6	1	1	0	900	900	0
8/30/2024 21:35	40802	EXCH_T2	3	3	0	0.13	0.13	0	-0.23	-0.22	0	0	0	0	0	0
8/30/2024 21:35	64202	KINZ_T1	10	2	-8	0.25	0.2	-0.05	0.65	0.58	0	0	0	0	0	0
8/30/2024 21:35	65205	PRIN_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:35	40502	CRES_T2	7	13	6	0.33	0.25	-0.08	-0.24	-0.24	0	0	0	0	0	0
8/30/2024 21:35	57401	SPAN_T1	3	11	8	3.3	0.97	-2.33	0	0	0	0	0	0	0	0
8/30/2024 21:35	12802	MICK_T1	0	0	0	0	0	0	-1.17	-1.17	0	0	0	0	0	0
8/30/2024 21:36	60803	BUCK_T1	7	4	-3	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
8/30/2024 21:36	64204	KINZ_T1	14	1	-13	0.26	0.4	0.14	0	0	0	0	0	0	0	0
8/30/2024 21:36	64203	KINZ_T1	0	0	0	0	0	0	-0.1	0.46	1	0	-1	600	0	-600
8/30/2024 21:36	53501	EVIL_T2	1	2	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
8/30/2024 21:36	64201	KINZ_T1	12	5	-7	0.33	0.22	-0.11	0	0	0	0	0	0	0	0
8/30/2024 21:36	55401	SHER_T1	0	29	29	0	0.15	0.15	0	0	0	0	0	0	0	0
8/30/2024 21:36	67605	WARW_T1	3	8	5	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
8/30/2024 21:36	46002	BERW_T2	0	0	0	0	0	0	-1.06	-0.1	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/30/2024 21:36	56501	ROCK_T2	2	3	1	0.25	0.57	0.32	0.83	0.76	0	0	0	0	0	0
8/30/2024 21:36	60902	DONG_T2	0	0	0	0	0	0	1.1	1.05	0	0	0	0	0	0
8/30/2024 21:36	55405	SHER_T1	11	31	20	1.09	0.67	-0.42	-0.17	-0.17	0	0	0	0	0	0
8/30/2024 21:36	44201	POIN_T1	0	3	3	0	0.1	0.1	-1.72	-1.73	2	2	0	2100	2100	0
8/30/2024 21:36	63302	GREE_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
8/30/2024 21:36	16004	DORN_T1	0	0	0	0	0	0	-0.76	-0.78	1	1	0	1200	1200	0
8/30/2024 21:36	64603	LEOL_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
8/30/2024 21:36	66505	SMAN_T2	3	3	0	0.2	0.47	0.27	0	0	0	0	0	0	0	0
8/30/2024 21:36	64202	KINZ_T1	10	2	-8	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
8/30/2024 21:36	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:36	57004	WHHI_T2	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
8/30/2024 21:36	67603	WARW_T1	0	0	0	0	0	0	0.13	0.08	0	0	0	0	0	0
8/30/2024 21:36	66503	SMAN_T2	0	0	0	0	0	0	0.64	0.6	0	0	0	0	0	0
8/30/2024 21:36	60502	NMAN_T2	1	1	0	0.1	0.5	0.4	-0.29	-0.19	0	0	0	0	0	0
8/30/2024 21:36	40201	BEGA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:36	57006	WHHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:36	44801	EDAN_T2	25	78	53	0.21	0.26	0.05	-1.57	-1.6	0	0	0	0	0	0
8/30/2024 21:36	60801	BUCK_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
8/30/2024 21:36	53502	EVIL_T2	0	0	0	0	0	0	0.38	0.41	0	0	0	0	0	0
8/30/2024 21:36	61504	EPET_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
8/30/2024 21:36	61501	EPET_T2	1	1	0	5	5.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:36	60501	NMAN_T2	4	7	3	0.1	0.14	0.04	0	0	0	0	0	0	0	0
8/30/2024 21:37	67401	WAKE_T2	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
8/30/2024 21:37	67605	WARW_T1	3	8	5	0.5	0.25	-0.25	-0.94	-0.92	0	0	0	0	0	0
8/30/2024 21:37	43202	MVIL_T2	63	90	27	0.75	0.82	0.07	-0.64	-0.63	0	0	0	0	0	0
8/30/2024 21:37	66502	SMAN_T2	0	0	0	0	0	0	0.18	0.09	0	0	0	0	0	0
8/30/2024 21:37	63304	GREE_T1	0	0	0	0	0	0	-1.53	-1.54	0	0	0	0	0	0
8/30/2024 21:37	41902	REED_T1	0	0	0	0	0	0	0.35	0.3	1	1	0	900	900	0
8/30/2024 21:37	14402	SSLA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:37	61501	EPET_T2	1	1	0	5	5.1	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:37	61504	EPET_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
8/30/2024 21:37	40201	BEGA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:37	66701	STRA_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
8/30/2024 21:37	66505	SMAN_T2	3	3	0	0.2	0.47	0.27	0	0	0	0	0	0	0	0
8/30/2024 21:37	63501	HEID_TBK1-2	22	31	9	0.9	0.43	-0.47	-0.14	-0.23	1	1	0	900	900	0
8/30/2024 21:37	14401	SSLA_T1	0	1	1	0	0.2	0.2	-0.42	-0.42	0	0	0	0	0	0
8/30/2024 21:37	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
8/30/2024 21:37	46206	DANV_T2	0	0	0	0	0	0	0.38	0.37	2	2	0	2100	2100	0
8/30/2024 21:37	41901	REED_T1	9	9	0	0.77	0.89	0.12	0	0	0	0	0	0	0	0
8/30/2024 21:37	66703	STRA_T1	78	139	61	0.14	0.18	0.04	-0.76	-0.75	0	0	0	0	0	0
8/30/2024 21:37	64503	LAVI_T1	0	0	0	0	0	0	-0.34	-0.33	1	1	0	1200	1200	0
8/30/2024 21:37	46203	DANV_T2	1	1	0	6.8	7.3	0.5	0	0	0	0	0	0	0	0
8/30/2024 21:38	43103	SMIL_T2	3	9	6	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:38	52402	GRPA_T2	3	4	1	0.7	0.78	0.08	-0.52	-0.54	0	0	0	0	0	0
8/30/2024 21:38	43102	SMIL_T2	4	5	1	0.25	0.38	0.13	0	0	0	0	0	0	0	0
8/30/2024 21:38	52401	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:38	60101	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 21:38	58701	ROSE_T2	0	0	0	0	0	0	-1.31	-1.3	1	1	0	600	600	0
8/30/2024 21:38	65904	SAKR_T2	0	0	0	0	0	0	-1.74	-1.73	2	2	0	900	900	0
8/30/2024 21:38	65901	SAKR_T2	1	1	0	8.2	8.4	0.2	0	0	0	0	0	0	0	0
8/30/2024 21:38	58705	ROSE_T2	5	5	0	1.8	1.98	0.18	0	0	0	0	0	0	0	0
8/30/2024 21:38	52403	GRPA_T2	3	3	0	0.43	0.8	0.37	0	0	0	0	0	0	0	0
8/30/2024 21:38	43105	SMIL_T2	6	13	7	0.15	0.18	0.03	0	0	0	0	0	0	0	0
8/30/2024 21:38	43106	SMIL_T2	0	0	0	0	0	0	-0.14	-0.18	1	1	0	1200	1200	0
8/30/2024 21:38	52404	GRPA_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
8/30/2024 21:39	49803	UNIV_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:39	44801	EDAN_T2	25	78	53	0.21	0.26	0.05	0	0	0	0	0	0	0	0
8/30/2024 21:39	47802	MOCA_T2	0	6	6	0	0.1	0.1	0.5	0.48	0	0	0	0	0	0
8/30/2024 21:39	44802	EDAN_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
8/30/2024 21:39	21901	HUMB_T1	0	0	0	0	0	0	-0.76	-0.75	0	0	0	0	0	0
8/30/2024 21:39	49804	UNIV_T1	0	0	0	0	0	0	0.67	0.72	0	0	0	0	0	0
8/30/2024 21:40	46302	ROHR_T1	5	4	-1	1.7	2.2	0.5	0.25	0.25	0	0	0	0	0	0
8/30/2024 21:40	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
8/30/2024 21:40	46301	ROHR_T1	113	148	35	0.28	0.33	0.05	0	0	0	0	0	0	0	0
8/30/2024 21:41	44801	EDAN_T2	25	78	53	0.21	0.26	0.05	-1.57	-1.6	0	0	0	0	0	0
8/30/2024 21:41	42201	SHEN_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
8/30/2024 21:41	40504	CRES_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
8/30/2024 21:42	67605	WARW_T1	3	8	5	0.5	0.25	-0.25	-0.94	-0.92	0	0	0	0	0	0
8/30/2024 21:42	40801	EXCH_T2	2	3	1	0.2	0.33	0.13	-0.31	-0.37	1	1	0	1200	1200	0
8/30/2024 21:42	40802	EXCH_T2	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
8/30/2024 21:42	45402	WBLO_T2	1	13	12	0.8	0.16	-0.64	-0.67	-0.56	0	0	0	0	0	0
8/30/2024 21:42	47802	MOCA_T2	0	6	6	0	0.1	0.1	0.5	0.48	0	0	0	0	0	0
8/30/2024 21:43	40802	EXCH_T2	3	3	0	0.13	0.13	0	-0.22	-0.25	0	0	0	0	0	0
8/30/2024 21:43	42501	ALTA_T2	0	0	0	0	0	0	-1.1	-1.15	1	1	0	600	600	0
8/30/2024 21:43	40801	EXCH_T2	2	3	1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
8/30/2024 21:44	55002	NEWP_T1	6	6	0	1.32	1.4	0.08	0	0	0	0	0	0	0	0
8/30/2024 21:44	55001	NEWP_T1	0	0	0	0	0	0	-0.1	-0.15	0	0	0	0	0	0
8/30/2024 21:46	59102	WALK_T2	0	0	0	0	0	0	0.51	0.48	0	0	0	0	0	0
8/30/2024 21:46	45702	LIND_T2	0	1	1	0	0.1	0.1	-0.41	-0.43	0	0	0	0	0	0
8/30/2024 21:47	41901	REED_T1	9	9	0	0.83	0.89	0.06	0	0	0	0	0	0	0	0
8/30/2024 21:47	41902	REED_T1	0	0	0	0	0	0	0.35	0.3	1	1	0	900	900	0
8/30/2024 21:49	14204	EALL_T2	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
8/30/2024 21:49	14202	EALL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/30/2024 21:50	62101	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:50	62105	ELAN_T1	8	0	-8	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/30/2024 21:50	62102	ELAN_T1	0	0	0	0	0	0	1.03	1.15	0	0	0	0	0	0
8/30/2024 21:54	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 21:54	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/30/2024 21:54	62604	ENGL_T1	0	0	0	0	0	0	-0.44	-0.64	1	1	0	600	600	0
8/30/2024 22:05	15703	TANN_T2	1	3	2	5.2	1.63	-3.57	0	0	0	0	0	0	0	0
8/30/2024 22:05	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.35	-0.36	0	0	0	0	0	0
8/31/2024 0:20	28102	TWLA_T2	14	15	1	0.66	0.75	0.09	0.2	0.2	0	0	0	0	0	0
8/31/2024 7:10	21501	CEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/31/2024 7:47	64204	KINZ_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
8/31/2024 7:47	64202	KINZ_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
8/31/2024 7:47	64201	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/31/2024 7:47	64203	KINZ_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
8/31/2024 7:50	47101	MARL_T1	0	0	0	0	0	0	-0.29	-0.23	0	0	0	0	0	0
8/31/2024 7:55	29402	BELT_T1	1	2	1	8.2	8.2	0	0	0	0	0	0	0	0	0
8/31/2024 7:55	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
8/31/2024 7:57	20102	AVOC_T1	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
8/31/2024 8:11	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 8:11	40502	CRES_T2	6	7	1	0.3	0.29	-0.01	-0.34	-0.36	0	0	0	0	0	0
8/31/2024 8:14	40502	CRES_T2	6	7	1	0.3	0.29	-0.01	-0.34	-0.36	0	0	0	0	0	0
8/31/2024 8:14	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 8:15	11903	ETEX_T1	0	0	0	0	0	0	0.42	0.46	0	0	0	0	0	0
8/31/2024 8:17	11901	ETEX_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
8/31/2024 8:20	57303	MOAL_T2	1	1	0	8.3	7.8	-0.5	0	0	0	0	0	0	0	0
8/31/2024 8:20	57306	MOAL_T2	0	0	0	0	0	0	-6.11	-6.06	2	2	0	2400	2400	0
8/31/2024 8:21	57306	MOAL_T2	0	0	0	0	0	0	-6.11	-6.06	2	2	0	2400	2400	0
8/31/2024 8:21	57303	MOAL_T2	1	1	0	8.3	7.8	-0.5	0	0	0	0	0	0	0	0
8/31/2024 8:28	40502	CRES_T2	7	6	-1	0.29	0.27	-0.02	-0.36	-0.33	0	0	0	0	0	0
8/31/2024 8:28	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 8:32	25501	MADI_T1	4	3	-1	1.18	1.13	-0.05	0	0	0	0	0	0	0	0
8/31/2024 8:32	25503	MADI_T1	45	108	63	0.19	0.35	0.16	-0.91	-0.87	0	0	0	0	0	0
8/31/2024 8:35	15603	NSTR_T2	0	0	0	0	0	0	-0.32	-0.27	0	0	0	0	0	0
8/31/2024 8:36	54201	PENN_T1	3	4	1	1.03	1.13	0.1	-0.77	-0.76	0	0	0	0	0	0
8/31/2024 8:36	54203	PENN_T1	5	18	13	0.42	0.41	-0.01	0	0	0	0	0	0	0	0
8/31/2024 8:37	45303	WBER_T2	8	8	0	0.35	0.26	-0.09	-0.29	-0.33	0	0	0	0	0	0
8/31/2024 8:41	45303	WBER_T2	8	8	0	0.35	0.26	-0.09	-0.29	-0.33	0	0	0	0	0	0
8/31/2024 8:43	45902	AUBU_T1	4	9	5	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
8/31/2024 8:43	45901	AUBU_T1	15	7	-8	0.15	0.14	-0.01	0.44	0.42	0	0	0	0	0	0
8/31/2024 8:44	40502	CRES_T2	6	4	-2	0.27	0.23	-0.04	-0.33	-0.3	0	0	0	0	0	0
8/31/2024 8:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 8:50	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 8:52	41902	REED_T1	0	0	0	0	0	0	1.01	0.97	0	0	0	0	0	0
8/31/2024 8:53	13904	SEID_T1	0	1	1	0	0	0	0.37	0.38	0	0	0	0	0	0
8/31/2024 9:14	11904	ETEX_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
8/31/2024 9:15	54506	ENOL_T2	0	0	0	0	0	0	0.36	0.23	1	1	0	600	600	0
8/31/2024 9:15	11904	ETEX_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
8/31/2024 9:18	63501	HEID_TBK1-2	48	48	0	1.02	1.09	0.07	-0.24	-0.07	1	1	0	900	900	0
8/31/2024 9:19	63501	HEID_TBK1-2	48	48	0	1.02	1.09	0.07	-0.24	-0.07	1	1	0	900	900	0
8/31/2024 9:19	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/31/2024 9:21	46102	MACI_T1	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
8/31/2024 9:22	64101	REFR_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
8/31/2024 9:23	64101	REFR_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
8/31/2024 9:24	64101	REFR_T1	0	0	0	0	0	0	1.3	1.19	0	0	0	0	0	0
8/31/2024 9:31	40502	CRES_T2	3	4	1	0.17	0.2	0.03	-0.3	-0.27	0	0	0	0	0	0
8/31/2024 9:31	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 9:40	45902	AUBU_T1	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/31/2024 9:40	45901	AUBU_T1	8	14	6	0.14	0.15	0.01	0.35	0.36	0	0	0	0	0	0
8/31/2024 9:42	45901	AUBU_T1	8	14	6	0.14	0.15	0.01	0.35	0.36	0	0	0	0	0	0
8/31/2024 9:42	45902	AUBU_T1	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/31/2024 9:49	44201	POIN_T1	0	0	0	0	0	0	-1.92	-1.97	2	2	0	2100	2100	0
8/31/2024 9:53	44201	POIN_T1	0	0	0	0	0	0	-1.97	-1.9	2	2	0	2100	2100	0
8/31/2024 9:54	64101	REFR_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
8/31/2024 9:55	29402	BELT_T1	58	67	9	0.44	0.48	0.04	0	0	0	0	0	0	0	0
8/31/2024 10:00	52403	GRPA_T2	3	3	0	0.3	0.57	0.27	-0.91	-0.92	0	0	0	0	0	0
8/31/2024 10:00	25501	MADI_T1	3	3	0	1.3	1.13	-0.17	0	0	0	0	0	0	0	0
8/31/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.5	0.53	0	0	0	0	0	0
8/31/2024 10:00	57002	WHHI_T2	0	0	0	0	0	0	-1.13	-1.14	1	1	0	1200	1200	0
8/31/2024 10:00	67503	WEWI_T2	1	1	0	5.8	5.6	-0.2	0.05	0.04	0	0	0	0	0	0
8/31/2024 10:00	59003	MIFF_T1	0	1	1	0	0.1	0.1	-0.48	-0.48	0	0	0	0	0	0
8/31/2024 10:00	15603	NSTR_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
8/31/2024 10:00	59002	MIFF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/31/2024 10:00	54601	SUMM_T2	0	0	0	0	0	0	-1.65	-1.64	2	2	0	2100	2100	0
8/31/2024 10:00	25503	MADI_T1	94	74	-20	0.27	0.23	-0.04	-0.82	-0.81	0	0	0	0	0	0
8/31/2024 10:00	22602	KIMB_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
8/31/2024 10:11	67503	WEWI_T2	1	1	0	5.8	5.6	-0.2	0.04	0.1	0	0	0	0	0	0
8/31/2024 10:11	67203	TEHI_T1	0	0	0	0	0	0	1.69	1.72	1	1	0	900	900	0
8/31/2024 10:13	10801	CHHI_T1	0	0	0	0	0	0	-1.09	-1.14	2	2	0	1500	1500	0
8/31/2024 10:14	44801	EDAN_T2	5	5	0	0.1	0.1	0	-1.56	-1.55	0	0	0	0	0	0
8/31/2024 10:14	21501	CEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/31/2024 10:16	61502	EPET_T1	0	0	0	0	0	0	-2.26	-2.17	0	0	0	0	0	0
8/31/2024 10:18	63403	HONY_T2	0	0	0	0	0	0	-0.43	-0.51	1	1	0	600	600	0
8/31/2024 10:19	40602	PIGR_T1	1	1	0	1.9	2.2	0.3	-0.4	-0.46	1	1	0	600	600	0
8/31/2024 10:19	40601	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 10:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 10:22	65001	NEFF_T2	0	0	0	0	0	0	-0.99	-1.03	1	1	0	1200	1200	0
8/31/2024 10:27	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 10:38	13905	SEID_T1	0	0	0	0	0	0	-0.78	-0.75	1	1	0	1200	1200	0
8/31/2024 10:38	13903	SEID_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/31/2024 10:39	45902	AUBU_T1	0	1	1	0	0.2	0.2	-0.39	-0.33	0	0	0	0	0	0
8/31/2024 10:40	45902	AUBU_T1	0	1	1	0	0.2	0.2	-0.39	-0.33	0	0	0	0	0	0
8/31/2024 10:41	45902	AUBU_T1	0	1	1	0	0.2	0.2	-0.39	-0.33	0	0	0	0	0	0
8/31/2024 10:42	29402	BELT_T1	43	64	21	0.49	0.48	-0.01	0	0	0	0	0	0	0	0
8/31/2024 10:43	64602	LEOL_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
8/31/2024 10:43	29402	BELT_T1	43	64	21	0.49	0.48	-0.01	0	0	0	0	0	0	0	0
8/31/2024 10:43	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 10:43	45902	AUBU_T1	0	1	1	0	0.2	0.2	-0.39	-0.33	0	0	0	0	0	0
8/31/2024 10:46	25402	LAHA_T2	0	0	0	0	0	0	-0.68	-0.72	0	0	0	0	0	0
8/31/2024 10:46	40101	HUNT_T2	4	3	-1	0.65	0.7	0.05	-0.63	-0.63	0	0	0	0	0	0
8/31/2024 10:46	25404	LAHA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 10:46	64203	KINZ_T1	0	0	0	0	0	0	0.07	-0.44	1	2	1	600	900	300
8/31/2024 10:46	64204	KINZ_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
8/31/2024 10:48	64503	LAVI_T1	0	0	0	0	0	0	-1.79	-1.88	1	1	0	1200	1200	0
8/31/2024 10:48	48302	ORWI_T2	1	1	0	0.2	0.4	0.2	-0.52	-0.52	0	0	0	0	0	0
8/31/2024 10:48	40101	HUNT_T2	4	3	-1	0.65	0.7	0.05	-1.25	-1.25	0	0	0	0	0	0
8/31/2024 10:49	51402	LYKE_T1	0	1	1	0	0	0	-1.35	-1.43	1	1	0	600	600	0
8/31/2024 10:49	20603	GRWO_T2	0	0	0	0	0	0	-0.56	-0.55	1	1	0	900	900	0
8/31/2024 10:50	46102	MACI_T1	0	1	1	0	0	0	0.85	0.85	0	0	0	0	0	0
8/31/2024 10:51	44201	POIN_T1	95	144	49	0.18	0.25	0.07	-1.95	-1.96	2	2	0	2100	2100	0
8/31/2024 10:52	51402	LYKE_T1	0	1	1	0	0	0	-1.43	-1.36	1	1	0	600	600	0
8/31/2024 10:53	64101	REFR_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
8/31/2024 10:53	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 10:55	44201	POIN_T1	95	144	49	0.18	0.25	0.07	-1.95	-1.96	2	2	0	2100	2100	0
8/31/2024 10:55	55101	WERT_T1	0	0	0	0	0	0	-4.43	-4.48	9	9	0	7200	7200	0
8/31/2024 10:56	45902	AUBU_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
8/31/2024 10:56	44201	POIN_T1	95	144	49	0.18	0.25	0.07	-1.95	-1.96	2	2	0	2100	2100	0
8/31/2024 10:56	45901	AUBU_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
8/31/2024 10:57	55101	WERT_T1	0	0	0	0	0	0	-1.48	-1.49	3	3	0	2400	2400	0
8/31/2024 10:59	55101	WERT_T1	0	0	0	0	0	0	-1.48	-1.49	3	3	0	2400	2400	0
8/31/2024 11:02	50506	MECH_T1	0	1	1	0	9.2	9.2	0	0	0	0	0	0	0	0
8/31/2024 11:02	45802	HEGI_T2	20	15	-5	0.42	0.33	-0.09	1.24	1.3	0	0	0	0	0	0
8/31/2024 11:02	50505	MECH_T1	0	0	0	0	0	0	-1.95	-1.97	0	0	0	0	0	0
8/31/2024 11:02	50502	MECH_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
8/31/2024 11:02	50501	MECH_T1	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
8/31/2024 11:03	63501	HEID_TBK1-2	48	49	1	0.79	0.83	0.04	-0.32	-0.3	3	3	0	2700	2700	0
8/31/2024 11:04	66302	MCGO_T2	0	0	0	0	0	0	-1.35	-1.32	1	1	0	600	600	0
8/31/2024 11:07	64101	REFR_T1	0	0	0	0	0	0	0.17	0.21	0	0	0	0	0	0
8/31/2024 11:08	66703	STRA_T1	0	2	2	0	0.4	0.4	0.32	0.33	0	0	0	0	0	0
8/31/2024 11:08	43103	SMIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 11:08	64101	REFR_T1	0	0	0	0	0	0	0.17	0.21	0	0	0	0	0	0
8/31/2024 11:08	14702	TREX_T2	0	0	0	0	0	0	0.78	0.81	0	0	0	0	0	0
8/31/2024 11:09	64101	REFR_T1	0	0	0	0	0	0	0.68	0.82	0	0	0	0	0	0
8/31/2024 11:09	20403	ASHF_T2	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
8/31/2024 11:09	20401	ASHF_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/31/2024 11:09	43103	SMIL_T2	0	0	0	0	0	0	-3.9	-3.92	0	0	0	0	0	0
8/31/2024 11:09	66703	STRA_T1	0	2	2	0	0.4	0.4	0.32	0.33	0	0	0	0	0	0
8/31/2024 11:11	14303	SUMN_T1	3	3	0	7.9	7.87	-0.03	0	0	0	0	0	0	0	0
8/31/2024 11:11	14702	TREX_T2	0	0	0	0	0	0	0.78	0.81	0	0	0	0	0	0
8/31/2024 11:11	14308	SUMN_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
8/31/2024 11:11	14304	SUMN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/31/2024 11:12	20403	ASHF_T2	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
8/31/2024 11:12	20401	ASHF_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/31/2024 11:12	66703	STRA_T1	0	2	2	0	0.4	0.4	0.32	0.33	0	0	0	0	0	0
8/31/2024 11:14	20401	ASHF_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
8/31/2024 11:14	20403	ASHF_T2	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
8/31/2024 11:19	41902	REED_T1	1	13	12	0.2	0.6	0.4	1.03	1.02	0	0	0	0	0	0
8/31/2024 11:20	65205	PRIN_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
8/31/2024 11:20	46101	MACI_T2	0	0	0	0	0	0	-0.43	-0.49	1	1	0	1200	1200	0
8/31/2024 11:22	43201	MVIL_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
8/31/2024 11:25	41902	REED_T1	1	13	12	0.2	0.6	0.4	1.02	1.03	0	0	0	0	0	0
8/31/2024 11:26	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/31/2024 11:27	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/31/2024 11:28	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 11:29	63802	GREE_T1	0	0	0	0	0	0	-0.1	-0.04	0	0	0	0	0	0
8/31/2024 11:31	63303	GREE_T1	0	0	0	0	0	0	-1.19	-1.21	2	2	0	1800	1800	0
8/31/2024 11:33	51401	LYKE_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
8/31/2024 11:33	40101	HUNT_T2	4	15	11	0.53	0.28	-0.25	-0.57	-0.59	0	0	0	0	0	0
8/31/2024 11:33	11901	ETEX_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
8/31/2024 11:33	64203	KINZ_T1	0	0	0	0	0	0	-0.52	-0.44	2	2	0	900	900	0
8/31/2024 11:33	64204	KINZ_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
8/31/2024 11:38	47401	PENS_T1	0	0	0	0	0	0	0.78	0.89	0	0	0	0	0	0
8/31/2024 11:38	41903	REED_T1	0	0	0	0	0	0	-0.03	-0.09	1	1	0	1200	1200	0
8/31/2024 11:38	41902	REED_T1	7	13	6	0.6	0.54	-0.06	0	0	0	0	0	0	0	0
8/31/2024 11:39	14702	TREX_T2	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
8/31/2024 11:41	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/31/2024 11:42	53601	DALM_T2	1	1	0	0.8	0.4	-0.4	0.06	0.09	0	0	0	0	0	0
8/31/2024 11:45	40101	HUNT_T2	11	12	1	0.25	0.35	0.1	0	0	0	0	0	0	0	0
8/31/2024 11:47	52004	LING_T2	2	2	0	3.45	4	0.55	-0.03	0	0	0	0	0	0	0
8/31/2024 11:48	20603	GRWO_T2	0	0	0	0	0	0	-0.55	-0.5	1	1	0	900	900	0
8/31/2024 11:48	20601	GRWO_T2	4	4	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/31/2024 11:50	67604	WARW_T1	0	0	0	0	0	0	-1.05	-1.06	0	0	0	0	0	0
8/31/2024 11:51	66504	SMAN_T2	0	0	0	0	0	0	-1.26	-1.07	1	1	0	1200	1200	0
8/31/2024 11:51	41902	REED_T1	13	15	2	0.76	0.54	-0.22	1.01	1.03	0	0	0	0	0	0
8/31/2024 11:51	12801	MICK_T1	0	0	0	0	0	0	-0.71	-0.64	1	1	0	600	600	0
8/31/2024 11:55	66504	SMAN_T2	0	0	0	0	0	0	-2.52	-2.14	2	2	0	2400	2400	0
8/31/2024 11:56	66703	STRA_T1	1	0	-1	0.2	0	-0.2	0.38	-0.25	0	0	0	0	0	0
8/31/2024 11:59	45501	DERR_T2	0	1	1	0	0	0	0.16	0.21	1	1	0	600	600	0
8/31/2024 11:59	10801	CHHI_T1	0	1	1	0	0	0	-1.08	-1.07	2	2	0	1500	1500	0
8/31/2024 12:00	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.16	0.21	1	1	0	600	600	0
8/31/2024 12:02	50107	HARR_T3	1	1	0	7.3	7.6	0.3	0	0	0	0	0	0	0	0
8/31/2024 12:02	50105	HARR_T3	6	6	0	7.47	7.35	-0.12	0	0	0	0	0	0	0	0
8/31/2024 12:02	50201	HARR_T3	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/31/2024 12:03	43201	MVIL_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
8/31/2024 12:05	13503	MCMI_T2	1	6	5	0.1	0.17	0.07	-0.85	-0.82	0	0	0	0	0	0
8/31/2024 12:05	67605	WARW_T1	0	0	0	0	0	0	-1.06	-1.04	0	0	0	0	0	0
8/31/2024 12:06	14502	SCHO_T1	1	2	1	3.1	2	-1.1	0.78	0.86	0	0	0	0	0	0
8/31/2024 12:06	55002	NEWP_T1	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
8/31/2024 12:06	66703	STRA_T1	0	0	0	0	0	0	-0.25	-0.2	0	0	0	0	0	0
8/31/2024 12:08	67605	WARW_T1	0	0	0	0	0	0	-1.04	-0.98	0	0	0	0	0	0
8/31/2024 12:09	67503	WEWI_T2	1	1	0	5	5.3	0.3	-0.18	-0.2	0	0	0	0	0	0
8/31/2024 12:11	14702	TREX_T2	0	0	0	0	0	0	0.86	0.91	0	0	0	0	0	0
8/31/2024 12:15	24105	EHAZ_T1	4	4	0	6.4	6	-0.4	-1.84	-1.84	1	1	0	1200	1200	0
8/31/2024 12:15	24101	EHAZ_T1	1	2	1	2	1.5	-0.5	0	0	0	0	0	0	0	0
8/31/2024 12:15	12302	LANA_T2	0	0	0	0	0	0	-1.23	-1.18	2	2	0	1500	1500	0
8/31/2024 12:19	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 12:21	60502	NMAN_T2	0	13	13	0	0.22	0.22	-0.74	-0.74	0	0	0	0	0	0
8/31/2024 12:21	46101	MACI_T2	0	0	0	0	0	0	-0.59	-0.58	1	1	0	1200	1200	0
8/31/2024 12:21	65901	SAKR_T2	1	1	0	5.7	5.9	0.2	-0.24	-0.3	1	1	0	600	600	0
8/31/2024 12:23	60502	NMAN_T2	0	13	13	0	0.22	0.22	0	0	0	0	0	0	0	0
8/31/2024 12:23	43103	SMIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
8/31/2024 12:23	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 12:23	43108	SMIL_T2	0	1	1	0	0.2	0.2	-0.88	-0.84	1	1	0	1200	1200	0
8/31/2024 12:24	66502	SMAN_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
8/31/2024 12:24	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 12:26	10602	BLGL_T2	1	1	0	9.5	9.6	0.1	0.47	0.48	0	0	0	0	0	0
8/31/2024 12:28	24102	EHAZ_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
8/31/2024 12:28	24101	EHAZ_T1	1	2	1	2	1.5	-0.5	0	0	0	0	0	0	0	0
8/31/2024 12:28	24105	EHAZ_T1	4	4	0	6.4	6	-0.4	0	0	0	0	0	0	0	0
8/31/2024 12:32	11903	ETEX_T1	0	1	1	0	0.2	0.2	0.82	0.8	0	0	0	0	0	0
8/31/2024 12:34	11904	ETEX_T2	1	1	0	1.6	1.2	-0.4	0	0	0	0	0	0	0	0
8/31/2024 12:34	11901	ETEX_T2	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
8/31/2024 12:35	43201	MVIL_T2	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
8/31/2024 12:36	64203	KINZ_T1	0	1	1	0	0	0	-0.43	-0.44	2	2	0	900	900	0
8/31/2024 12:36	64204	KINZ_T1	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
8/31/2024 12:37	56501	ROCK_T2	1	1	0	0.6	0.8	0.2	-1.02	-1	0	0	0	0	0	0
8/31/2024 12:37	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 12:37	66703	STRA_T1	0	0	0	0	0	0	-0.23	-0.14	0	0	0	0	0	0
8/31/2024 12:38	66703	STRA_T1	0	0	0	0	0	0	-0.23	-0.14	0	0	0	0	0	0
8/31/2024 12:38	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 12:38	56501	ROCK_T2	1	1	0	0.6	0.8	0.2	-1.02	-1	0	0	0	0	0	0
8/31/2024 12:42	14702	TREX_T2	0	1	1	0	0.8	0	0.94	0.93	0	0	0	0	0	0
8/31/2024 12:43	16102	BING_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
8/31/2024 12:43	16103	BING_T2	0	0	0	0	0	0	-1.55	-1.51	2	2	0	1500	1500	0
8/31/2024 12:51	58401	MORO_T1	0	0	0	0	0	0	-1.63	-1.61	2	2	0	1200	1200	0
8/31/2024 12:53	13704	SCHN_T2	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
8/31/2024 12:55	14502	SCHO_T1	2	1	-1	2.05	3.9	1.85	0.9	1.01	0	0	0	0	0	0
8/31/2024 12:57	16102	BING_T2	1	1	0	1.3	1.7	0.4	0	0	0	0	0	0	0	0
8/31/2024 12:57	16103	BING_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 12:57	16101	BING_T2	0	0	0	0	0	0	0.87	0.91	0	0	0	0	0	0
8/31/2024 12:58	10805	CHHI_T2	1	1	0	8	8.7	0.7	-0.81	-0.79	1	1	0	600	600	0
8/31/2024 12:59	11104	EGYP_T1	12	12	0	1.38	1.35	-0.03	1.02	1.06	0	0	0	0	0	0
8/31/2024 12:59	11102	EGYP_T1	4	4	0	0.78	1.08	0.3	0	0	0	0	0	0	0	0
8/31/2024 12:59	11101	EGYP_T1	4	4	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
8/31/2024 13:01	11903	ETEX_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/31/2024 13:02	11101	EGYP_T1	4	4	0	1.15	0.95	-0.2	0	0	0	0	0	0	0	0
8/31/2024 13:02	64204	KINZ_T1	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
8/31/2024 13:02	64203	KINZ_T1	0	0	0	0	0	0	-1.4	-1.31	3	3	0	2100	2100	0
8/31/2024 13:02	61306	EARL_T1	0	0	0	0	0	0	-1.19	-1.17	0	0	0	0	0	0
8/31/2024 13:02	11104	EGYP_T1	11	12	1	1.45	1.58	0.13	1.02	1.06	0	0	0	0	0	0
8/31/2024 13:02	11102	EGYP_T1	4	4	0	1.33	1.08	-0.25	0	0	0	0	0	0	0	0
8/31/2024 13:09	16302	ALPA_T2	1	2	1	1.2	0	-1.2	-0.34	-0.33	0	0	0	0	0	0
8/31/2024 13:10	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 13:10	29402	BELT_T1	1	16	15	8.9	0.76	-8.14	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/31/2024 13:11	16302	ALPA_T2	1	2	1	1.2	0	-1.2	-0.51	-0.5	0	0	0	0	0	0
8/31/2024 13:11	14702	TREX_T2	0	0	0	0	0	0	0.96	0.96	0	0	0	0	0	0
8/31/2024 13:11	60101	COCA_T1	0	1	1	0	0.3	0.3	0.73	0.87	0	0	0	0	0	0
8/31/2024 13:12	60101	COCA_T1	0	1	1	0	0.3	0.3	0.73	0.87	0	0	0	0	0	0
8/31/2024 13:12	60102	COCA_T1	0	0	0	0	0	0	-1.09	-1.17	2	2	0	1200	1200	0
8/31/2024 13:13	60101	COCA_T1	0	1	1	0	0.3	0.3	0.73	0.87	0	0	0	0	0	0
8/31/2024 13:13	29402	BELT_T1	1	16	15	8.9	0.76	-8.14	0	0	0	0	0	0	0	0
8/31/2024 13:14	44801	EDAN_T2	1	1	0	1	0.6	-0.4	-1.47	-1.47	0	0	0	0	0	0
8/31/2024 13:18	64204	KINZ_T1	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
8/31/2024 13:18	64203	KINZ_T1	0	0	0	0	0	0	-1.31	-1.28	3	3	0	2100	2100	0
8/31/2024 13:19	15603	NSTR_T2	0	0	0	0	0	0	-0.16	-0.14	0	0	0	0	0	0
8/31/2024 13:20	16002	DORN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 13:20	16006	DORN_T2	1	6	5	0.2	0.48	0.28	-1.38	-1.33	1	1	0	1200	1200	0
8/31/2024 13:25	67503	WEWI_T2	1	4	3	3.5	1.35	-2.15	-0.03	-0.01	0	0	0	0	0	0
8/31/2024 13:26	16302	ALPA_T2	2	0	-2	0.25	0	-0.25	-0.5	-0.2	0	0	0	0	0	0
8/31/2024 13:27	16302	ALPA_T2	2	0	-2	0.25	0	-0.25	-0.17	-0.07	0	0	0	0	0	0
8/31/2024 13:30	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 13:32	11507	FREE_T2	0	1	1	0	0	0	-0.36	-0.33	0	0	0	0	0	0
8/31/2024 13:33	46602	LACR_T1	0	0	0	0	0	0	-0.71	-0.74	0	0	0	0	0	0
8/31/2024 13:36	14201	EALL_T1	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
8/31/2024 13:38	54201	PENN_T1	3	4	1	1.7	1.38	-0.32	0	0	0	0	0	0	0	0
8/31/2024 13:38	54203	PENN_T1	18	18	0	0.52	0.51	-0.01	-0.18	-0.18	1	1	0	600	600	0
8/31/2024 13:43	13702	SCHN_T1	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
8/31/2024 13:45	40702	FFLD_T1	0	0	0	0	0	0	-1.14	-1.16	1	1	0	1200	1200	0
8/31/2024 13:48	11507	FREE_T2	1	0	-1	0.1	0	-0.1	-0.33	-0.29	0	0	0	0	0	0
8/31/2024 13:50	64204	KINZ_T1	2	2	0	0.3	0.55	0.25	0	0	0	0	0	0	0	0
8/31/2024 13:50	64203	KINZ_T1	0	1	1	0	0	0	-1.35	-1.31	3	3	0	2100	2100	0
8/31/2024 14:01	44905	SCOT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/31/2024 14:05	64204	KINZ_T1	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
8/31/2024 14:05	64203	KINZ_T1	1	0	-1	0.3	0	-0.3	-1.31	-1.36	3	3	0	2100	2100	0
8/31/2024 14:06	47403	PENS_T1	1	1	0	1	1.8	0.8	0	0	0	0	0	0	0	0
8/31/2024 14:06	47401	PENS_T1	0	0	0	0	0	0	0.86	0.84	0	0	0	0	0	0
8/31/2024 14:11	54201	PENN_T1	3	3	0	1.57	1.63	0.06	-0.59	-0.61	0	0	0	0	0	0
8/31/2024 14:11	54203	PENN_T1	18	18	0	0.33	0.47	0.14	0	0	0	0	0	0	0	0
8/31/2024 14:15	40504	CRES_T1	0	0	0	0	0	0	-1.7	-1.69	0	0	0	0	0	0
8/31/2024 14:16	40101	HUNT_T2	3	2	-1	0.37	0.4	0.03	-1.17	-1.18	0	0	0	0	0	0
8/31/2024 14:17	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 14:17	40502	CRES_T2	16	11	-5	0.23	0.19	-0.04	-0.89	-0.93	0	0	0	0	0	0
8/31/2024 14:19	40504	CRES_T1	0	0	0	0	0	0	-1.7	-1.69	0	0	0	0	0	0
8/31/2024 14:31	40101	HUNT_T2	2	1	-1	0.4	0.3	-0.1	-1.18	-1.17	0	0	0	0	0	0
8/31/2024 14:32	40101	HUNT_T2	2	1	-1	0.4	0.3	-0.1	-1.18	-1.17	0	0	0	0	0	0
8/31/2024 14:52	59002	MIFF_T1	5	6	1	0.66	0.63	-0.03	0	0	0	0	0	0	0	0
8/31/2024 14:52	59003	MIFF_T1	1	0	-1	0.5	0	-0.5	-0.4	-0.44	0	0	0	0	0	0
8/31/2024 14:52	59001	MIFF_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
8/31/2024 14:56	58706	ROSE_T2	1	0	-1	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
8/31/2024 14:56	58702	ROSE_T2	0	0	0	0	0	0	-1.07	-1.18	0	0	0	0	0	0
8/31/2024 14:56	58705	ROSE_T2	2	2	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
8/31/2024 15:02	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/31/2024 15:02	52004	LING_T2	2	2	0	3.9	4.3	0.4	0	0	0	0	0	0	0	0
8/31/2024 15:10	55104	WERT_T2	0	0	0	0	0	0	-1.28	-1.35	3	3	0	2100	2100	0
8/31/2024 15:11	55105	WERT_T1	0	0	0	0	0	0	-0.03	-0.07	1	1	0	900	900	0
8/31/2024 15:14	16002	DORN_T2	0	1	1	0	0	0	-0.22	-0.21	1	1	0	1200	1200	0
8/31/2024 15:14	16006	DORN_T2	6	7	1	0.92	0.32	-0.6	0	0	0	0	0	0	0	0
8/31/2024 15:15	54501	ENOL_T2	0	0	0	0	0	0	-1.66	-1.63	2	2	0	1200	1200	0
8/31/2024 15:16	42701	AUGU_T1	1	1	0	0.3	0	-0.3	0	0	2	2	0	1800	1800	0
8/31/2024 15:16	54504	ENOL_T2	0	0	0	0	0	0	-1.89	-1.92	1	1	0	600	600	0
8/31/2024 15:17	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 15:20	54504	ENOL_T2	0	0	0	0	0	0	-1.89	-1.92	1	1	0	600	600	0
8/31/2024 15:23	59202	THOM_T1	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
8/31/2024 15:29	46402	FLEM_T2	2	0	-2	0.1	0	-0.1	-0.66	-0.6	1	1	0	600	600	0
8/31/2024 15:29	46401	FLEM_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/31/2024 15:33	46402	FLEM_T2	0	0	0	0	0	0	-0.66	-0.6	1	1	0	600	600	0
8/31/2024 15:33	46401	FLEM_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
8/31/2024 15:35	12006	HATF_T1	0	0	0	0	0	0	0.73	0.7	0	0	0	0	0	0
8/31/2024 15:36	54203	PENN_T1	18	18	0	0.35	0.38	0.03	0	0	0	0	0	0	0	0
8/31/2024 15:36	54201	PENN_T1	3	3	0	1.67	1.6	-0.07	-0.6	-0.59	0	0	0	0	0	0
8/31/2024 15:39	47401	PENS_T1	0	2	2	0	0.3	0.3	0.8	0.81	0	0	0	0	0	0
8/31/2024 15:40	55101	WERT_T1	0	0	0	0	0	0	-2.42	-2.43	4	4	0	3300	3300	0
8/31/2024 15:40	47401	PENS_T1	0	2	2	0	0.3	0.3	1.59	1.63	0	0	0	0	0	0
8/31/2024 15:43	16302	ALPA_T2	0	0	0	0	0	0	-0.22	-0.08	0	0	0	0	0	0
8/31/2024 15:49	63804	HEMP_T1	1	1	0	6.6	6.6	0	-0.19	-0.22	0	0	0	0	0	0
8/31/2024 15:51	15603	NSTR_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
8/31/2024 15:53	58706	ROSE_T2	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
8/31/2024 15:53	58701	ROSE_T2	0	0	0	0	0	0	-1.21	-1.19	1	1	0	600	600	0
8/31/2024 15:53	58705	ROSE_T2	2	2	0	1.15	1.25	0.1	0	0	0	0	0	0	0	0
8/31/2024 15:54	58706	ROSE_T2	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
8/31/2024 15:54	58705	ROSE_T2	2	2	0	1.15	1.25	0.1	0	0	0	0	0	0	0	0
8/31/2024 15:54	58701	ROSE_T2	0	0	0	0	0	0	-1.21	-1.19	1	1	0	600	600	0
8/31/2024 16:02	10101	ALLE_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/31/2024 16:02	10103	ALLE_T3	4	5	1	0.58	1.05	0.47	0	0	0	0	0	0	0	0
8/31/2024 16:02	10205	ALLE_T3	2	3	1	1.4	0.65	-0.75	0	0	0	0	0	0	0	0
8/31/2024 16:02	10105	ALLE_T3	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
8/31/2024 16:02	10109	ALLE_T3	11	4	-7	1.77	0	-1.77	0	0	0	0	0	0	0	0
8/31/2024 16:04	64904	MILL_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
8/31/2024 16:06	64904	MILL_T1	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
8/31/2024 16:09	43802	SWIL_T1	0	0	0	0	0	0	0.11	0.16	1	1	0	600	600	0
8/31/2024 16:09	43801	SWIL_T1	2	3	1	3.3	2.17	-1.13	0	0	0	0	0	0	0	0
8/31/2024 16:10	43801	SWIL_T1	2	3	1	3.3	2.17	-1.13	0	0	0	0	0	0	0	0
8/31/2024 16:10	43802	SWIL_T1	0	0	0	0	0	0	0.11	0.16	1	1	0	600	600	0
8/31/2024 16:12	64101	REFR_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
8/31/2024 16:13	40201	BEGA_T2	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
8/31/2024 16:23	60502	NMAN_T2	2	13	11	0.1	0.18	0.08	-0.75	-0.71	0	0	0	0	0	0
8/31/2024 16:23	60504	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 16:24	55002	NEWP_T1	0	2	2	0	0.35	0.35	-0.09	-0.11	0	0	0	0	0	0
8/31/2024 16:24	60504	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 16:24	60502	NMAN_T2	2	13	11	0.1	0.18	0.08	-0.75	-0.71	0	0	0	0	0	0
8/31/2024 16:24	55102	WERT_T2	0	0	0	0	0	0	-1.59	-1.57	1	1	0	600	600	0
8/31/2024 16:25	60502	NMAN_T2	2	13	11	0.1	0.18	0.08	-0.75	-0.71	0	0	0	0	0	0
8/31/2024 16:25	60504	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 16:34	28102	TWLA_T2	0	1	1	0	0.2	0.2	0.28	0.29	0	0	0	0	0	0
8/31/2024 16:43	57104	SPHI_T2	0	0	0	0	0	0	-1.58	-1.56	1	1	0	900	900	0
8/31/2024 16:43	57106	SPHI_T2	3	3	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
8/31/2024 16:44	55105	WERT_T1	0	0	0	0	0	0	-0.02	-0.04	1	1	0	900	900	0
8/31/2024 16:50	13503	MCMI_T2	0	0	0	0	0	0	-0.8	-0.78	0	0	0	0	0	0
8/31/2024 16:51	53803	MBRG_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
8/31/2024 16:59	55101	WERT_T1	0	0	0	0	0	0	-1.6	-1.6	3	3	0	2400	2400	0
8/31/2024 17:01	24105	EHAZ_T1	4	4	0	6.45	5.98	-0.47	0	0	0	0	0	0	0	0
8/31/2024 17:01	24101	EHAZ_T1	1	2	1	1.4	3	1.6	0	0	0	0	0	0	0	0
8/31/2024 17:01	24102	EHAZ_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
8/31/2024 17:02	22903	HARW_T1	22	10	-12	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
8/31/2024 17:02	22901	HARW_T1	0	0	0	0	0	0	-0.49	-0.5	1	1	0	1200	1200	0
8/31/2024 17:08	67103	SPRI_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
8/31/2024 17:16	16004	DORN_T1	0	0	0	0	0	0	-1.69	-1.63	2	2	0	2400	2400	0
8/31/2024 17:17	16004	DORN_T1	0	0	0	0	0	0	-1.69	-1.63	2	2	0	2400	2400	0
8/31/2024 17:19	40501	CRES_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/31/2024 17:19	40502	CRES_T2	8	8	0	0.4	0.33	-0.07	-0.92	-0.92	0	0	0	0	0	0
8/31/2024 17:19	45701	LIND_T2	0	0	0	0	0	0	-1.41	-1.42	0	0	0	0	0	0
8/31/2024 17:19	45702	LIND_T2	1	1	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
8/31/2024 17:21	12603	MACA_T1	0	0	0	0	0	0	-0.95	-0.93	0	0	0	0	0	0
8/31/2024 17:22	64605	LEOL_T1	0	0	0	0	0	0	-0.15	-0.19	1	1	0	300	300	0
8/31/2024 17:24	67103	SPRI_T1	0	0	0	0	0	0	-0.83	-0.81	0	0	0	0	0	0
8/31/2024 17:26	43106	SMIL_T2	0	0	0	0	0	0	-1.56	-1.68	2	2	0	2400	2400	0
8/31/2024 17:26	43103	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/31/2024 17:26	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 17:27	54601	SUMM_T2	0	0	0	0	0	0	-1.47	-1.56	2	2	0	2100	2100	0
8/31/2024 17:37	12602	MACA_T1	0	0	0	0	0	0	-2.44	-2.6	1	1	0	600	600	0
8/31/2024 17:42	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 17:42	46203	DANV_T2	1	1	0	6.6	6.5	-0.1	-1.74	-1.8	0	0	0	0	0	0
8/31/2024 17:43	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 17:44	67605	WARW_T1	1	1	0	0.7	1.4	0.7	0	0	0	0	0	0	0	0
8/31/2024 17:44	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
8/31/2024 17:44	41903	REED_T1	0	0	0	0	0	0	-0.23	-0.09	1	1	0	1200	1200	0
8/31/2024 17:44	67604	WARW_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
8/31/2024 17:45	46203	DANV_T2	1	1	0	6.2	6.7	0.5	-1.74	-1.8	0	0	0	0	0	0
8/31/2024 18:30	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/31/2024 19:40	28102	TWLA_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
8/31/2024 20:25	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 20:30	40602	PIGR_T1	1	1	0	0.4	0.3	-0.1	-1.61	-1.61	1	1	0	600	600	0
8/31/2024 20:55	51402	LYKE_T1	0	1	1	0	0	0	-1.42	-1.44	1	1	0	600	600	0
8/31/2024 20:58	55101	WERT_T1	0	0	0	0	0	0	-1.93	-1.98	3	3	0	2400	2400	0
8/31/2024 21:04	45802	HEGI_T2	48	47	-1	2.58	1.3	-1.28	-0.1	0.67	0	0	0	0	0	0
8/31/2024 21:06	63501	HEID_TBK1-2	49	49	0	1.38	1.4	0.02	-0.09	-0.12	1	1	0	900	900	0
8/31/2024 21:06	45802	HEGI_T2	48	47	-1	2.58	1.3	-1.28	0.67	0.69	0	0	0	0	0	0
8/31/2024 21:06	55101	WERT_T1	0	0	0	0	0	0	-1.93	-1.98	3	3	0	2400	2400	0
8/31/2024 21:07	67503	WEWI_T2	1	1	0	5.2	6.1	0.9	-0.22	-0.22	0	0	0	0	0	0
8/31/2024 21:08	66302	MCGO_T2	0	0	0	0	0	0	-1.4	-1.44	1	1	0	600	600	0
8/31/2024 21:13	54201	PENN_T1	9	15	6	0.73	0.65	-0.08	-0.66	-0.69	0	0	0	0	0	0
8/31/2024 21:13	64101	REFR_T1	0	0	0	0	0	0	0.21	0.16	0	0	0	0	0	0
8/31/2024 21:13	54203	PENN_T1	18	18	0	0.72	0.98	0.26	0	0	0	0	0	0	0	0
8/31/2024 21:14	63402	HONY_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/31/2024 21:14	64904	MILL_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
8/31/2024 21:14	63403	HONY_T2	0	0	0	0	0	0	-0.88	-0.23	1	0	-1	600	0	-600
8/31/2024 21:15	67503	WEWI_T2	1	1	0	6.1	6.1	0	-0.22	-0.22	0	0	0	0	0	0
8/31/2024 21:17	58705	ROSE_T2	5	5	0	1.16	0.98	-0.18	0	0	0	0	0	0	0	0
8/31/2024 21:17	45901	AUBU_T1	39	48	9	0.22	0.25	0.03	0	0	0	0	0	0	0	0
8/31/2024 21:17	45902	AUBU_T1	10	23	13	0.21	0.24	0.03	-0.44	-0.51	0	0	0	0	0	0
8/31/2024 21:17	58701	ROSE_T2	0	0	0	0	0	0	-1.28	-1.27	1	1	0	600	600	0
8/31/2024 21:17	12603	MACA_T1	4	0	-4	0.18	0	-0.18	-1	-1.01	0	0	0	0	0	0
8/31/2024 21:17	58706	ROSE_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/31/2024 21:18	54203	PENN_T1	18	18	0	0.98	0.95	-0.03	0	0	0	0	0	0	0	0
8/31/2024 21:18	65001	NEFF_T2	0	0	0	0	0	0	-1	-1.04	1	1	0	1200	1200	0
8/31/2024 21:18	65003	NEFF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
8/31/2024 21:18	54201	PENN_T1	15	11	-4	0.62	0.75	0.13	-0.66	-0.69	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/31/2024 21:19	50107	HARR_T3	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
8/31/2024 21:19	50201	HARR_T3	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
8/31/2024 21:19	50103	HARR_T3	5	6	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
8/31/2024 21:19	50105	HARR_T3	6	6	0	7.38	7.42	0.04	0	0	0	0	0	0	0	0
8/31/2024 21:20	45902	AUBU_T1	10	23	13	0.21	0.24	0.03	-0.88	-1.01	0	0	0	0	0	0
8/31/2024 21:20	14308	SUMN_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
8/31/2024 21:20	45901	AUBU_T1	39	48	9	0.22	0.25	0.03	0	0	0	0	0	0	0	0
8/31/2024 21:20	14303	SUMN_T1	3	3	0	6.83	7	0.17	0	0	0	0	0	0	0	0
8/31/2024 21:21	64904	MILL_T1	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
8/31/2024 21:21	13503	MCMI_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
8/31/2024 21:21	16101	BING_T2	0	0	0	0	0	0	0.74	0.71	0	0	0	0	0	0
8/31/2024 21:21	57104	SPHI_T2	1	1	0	9.5	5.3	-4.2	-1.62	-1.69	1	1	0	900	900	0
8/31/2024 21:21	16102	BING_T2	15	16	1	0.35	0.35	0	0	0	0	0	0	0	0	0
8/31/2024 21:21	57101	SPHI_T2	6	6	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
8/31/2024 21:21	57106	SPHI_T2	3	3	0	0.97	0.7	-0.27	0	0	0	0	0	0	0	0
8/31/2024 21:22	12602	MACA_T1	0	0	0	0	0	0	-1.61	-1.61	1	1	0	600	600	0
8/31/2024 21:22	25402	LAHA_T2	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
8/31/2024 21:22	15603	NSTR_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
8/31/2024 21:22	12603	MACA_T1	4	0	-4	0.18	0	-0.18	0	0	0	0	0	0	0	0
8/31/2024 21:22	66504	SMAN_T2	0	0	0	0	0	0	-2.65	-2.65	2	2	0	2400	2400	0
8/31/2024 21:22	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 21:23	12807	MICK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
8/31/2024 21:23	40101	HUNT_T2	1	1	0	0.7	0	-0.7	-1.23	-1.24	0	0	0	0	0	0
8/31/2024 21:23	14201	EALL_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
8/31/2024 21:23	66703	STRA_T1	2	0	-2	0.1	0	-0.1	-1.48	-1.64	0	0	0	0	0	0
8/31/2024 21:23	48302	ORWI_T2	2	2	0	0.8	0.8	0	-0.55	-0.54	0	0	0	0	0	0
8/31/2024 21:23	12801	MICK_T1	0	0	0	0	0	0	-0.83	-0.88	1	1	0	600	600	0
8/31/2024 21:24	58705	ROSE_T2	5	5	0	1.16	0.98	-0.18	0	0	0	0	0	0	0	0
8/31/2024 21:24	55101	WERT_T1	0	0	0	0	0	0	-2.05	-2.12	3	3	0	2400	2400	0
8/31/2024 21:24	58706	ROSE_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/31/2024 21:24	58701	ROSE_T2	0	0	0	0	0	0	-1.27	-1.28	1	1	0	600	600	0
8/31/2024 21:25	58401	MORO_T1	0	0	0	0	0	0	-0.87	-0.91	1	1	0	600	600	0
8/31/2024 21:25	50501	MECH_T1	4	4	0	1.05	0.83	-0.22	0	0	0	0	0	0	0	0
8/31/2024 21:25	63804	HEMP_T1	1	1	0	5.8	5.7	-0.1	-0.34	-0.38	0	0	0	0	0	0
8/31/2024 21:25	50505	MECH_T1	0	0	0	0	0	0	-1.95	-1.99	0	0	0	0	0	0
8/31/2024 21:25	50502	MECH_T1	1	1	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
8/31/2024 21:25	54201	PENN_T1	15	11	-4	0.62	0.75	0.13	0	0	0	0	0	0	0	0
8/31/2024 21:25	40502	CRES_T2	38	59	21	0.36	0.29	-0.07	-1.06	-1.1	0	0	0	0	0	0
8/31/2024 21:25	10205	ALLE_T3	2	2	0	0.8	1.5	0.7	0	0	0	0	0	0	0	0
8/31/2024 21:25	10105	ALLE_T3	1	3	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/31/2024 21:25	10103	ALLE_T3	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
8/31/2024 21:25	40501	CRES_T2	10	10	0	0.4	0.31	-0.09	0	0	0	0	0	0	0	0
8/31/2024 21:25	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 21:25	40504	CRES_T1	0	0	0	0	0	0	-1.83	-1.85	0	0	0	0	0	0
8/31/2024 21:25	54203	PENN_T1	18	18	0	0.98	0.95	-0.03	-0.27	-0.29	1	1	0	600	600	0
8/31/2024 21:25	52004	LING_T2	2	2	0	4.8	4.75	-0.05	0	0	0	0	0	0	0	0
8/31/2024 21:25	11507	FREE_T2	0	0	0	0	0	0	-0.34	-0.46	0	0	0	0	0	0
8/31/2024 21:26	29402	BELT_T1	38	24	-14	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
8/31/2024 21:26	47401	PENS_T1	0	0	0	0	0	0	1.41	1.38	0	0	0	0	0	0
8/31/2024 21:26	45901	AUBU_T1	39	48	9	0.22	0.25	0.03	0.38	0.39	0	0	0	0	0	0
8/31/2024 21:26	13905	SEID_T1	0	0	0	0	0	0	-0.7	-0.71	1	1	0	1200	1200	0
8/31/2024 21:26	45902	AUBU_T1	10	23	13	0.21	0.24	0.03	0	0	0	0	0	0	0	0
8/31/2024 21:27	45901	AUBU_T1	39	48	9	0.22	0.25	0.03	0	0	0	0	0	0	0	0
8/31/2024 21:27	67203	TEHI_T1	0	0	0	0	0	0	1.19	1.14	1	1	0	900	900	0
8/31/2024 21:27	45902	AUBU_T1	10	23	13	0.21	0.24	0.03	-0.51	-0.55	0	0	0	0	0	0
8/31/2024 21:27	67605	WARW_T1	3	3	0	0.53	0.7	0.17	-1.07	-1.09	0	0	0	0	0	0
8/31/2024 21:27	14702	TREX_T2	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
8/31/2024 21:27	67201	TEHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
8/31/2024 21:27	56501	ROCK_T2	2	2	0	0.45	0.5	0.05	-0.99	-1.04	0	0	0	0	0	0
8/31/2024 21:28	14502	SCHO_T1	1	1	0	2.7	2.3	-0.4	0.77	0.84	0	0	0	0	0	0
8/31/2024 21:28	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/31/2024 21:28	67503	WEWI_T2	1	1	0	6.1	6.1	0	-0.22	-0.25	0	0	0	0	0	0
8/31/2024 21:28	20403	ASHF_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
8/31/2024 21:28	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/31/2024 21:28	24701	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 21:28	29402	BELT_T1	38	24	-14	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
8/31/2024 21:28	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/31/2024 21:28	60502	NMAN_T2	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
8/31/2024 21:29	64503	LAVI_T1	0	0	0	0	0	0	-1.85	-1.87	1	1	0	1200	1200	0
8/31/2024 21:29	64101	REFR_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
8/31/2024 21:29	66504	SMAN_T2	0	0	0	0	0	0	-1.33	-1.32	1	1	0	1200	1200	0
8/31/2024 21:29	40101	HUNT_T2	1	1	0	0.7	0	-0.7	-2.46	-2.48	0	0	0	0	0	0
8/31/2024 21:29	64602	LEOL_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
8/31/2024 21:29	58702	ROSE_T2	0	0	0	0	0	0	-1.4	-1.37	0	0	0	0	0	0
8/31/2024 21:29	58705	ROSE_T2	5	5	0	1.16	0.98	-0.18	0	0	0	0	0	0	0	0
8/31/2024 21:29	25503	MADI_T1	15	8	-7	0.18	0.14	-0.04	-0.85	-0.84	0	0	0	0	0	0
8/31/2024 21:29	46101	MACI_T2	15	0	-15	0.12	0	-0.12	-0.6	-0.61	1	1	0	1200	1200	0
8/31/2024 21:29	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 21:29	25501	MADI_T1	4	3	-1	1.3	1.33	0.03	0	0	0	0	0	0	0	0
8/31/2024 21:29	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
8/31/2024 21:29	58706	ROSE_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
8/31/2024 21:29	66703	STRA_T1	2	0	-2	0.1	0	-0.1	-0.74	-0.82	0	0	0	0	0	0
8/31/2024 21:29	54501	ENOL_T2	0	0	0	0	0	0	-0.86	-0.87	1	1	0	600	600	0
8/31/2024 21:30	22903	HARW_T1	7	9	2	0.47	0.27	-0.2	0	0	0	0	0	0	0	0
8/31/2024 21:30	22901	HARW_T1	0	0	0	0	0	0	-0.69	-0.53	1	1	0	1200	1200	0
8/31/2024 21:30	65205	PRIN_T1	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
8/31/2024 21:31	29402	BELT_T1	24	2	-22	0.6	4.7	4.1	0	0	0	0	0	0	0	0
8/31/2024 21:31	14702	TREX_T2	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
8/31/2024 21:31	29401	BELT_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
8/31/2024 21:31	40101	HUNT_T2	1	0	-1	0.4	0	-0.4	-1.23	-1.24	0	0	0	0	0	0
8/31/2024 21:31	13503	MCMI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
8/31/2024 21:31	20603	GRWO_T2	0	0	0	0	0	0	-0.54	-0.54	1	1	0	900	900	0
8/31/2024 21:31	47401	PENS_T1	0	0	0	0	0	0	1.41	1.38	0	0	0	0	0	0
8/31/2024 21:32	12006	HATF_T1	0	0	0	0	0	0	0.47	0.43	0	0	0	0	0	0
8/31/2024 21:32	64202	KINZ_T1	3	3	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
8/31/2024 21:32	67605	WARW_T1	2	3	1	1	0.7	-0.3	0	0	0	0	0	0	0	0
8/31/2024 21:32	14702	TREX_T2	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
8/31/2024 21:32	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
8/31/2024 21:32	60502	NMAN_T2	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
8/31/2024 21:32	20603	GRWO_T2	0	0	0	0	0	0	-0.54	-0.54	1	1	0	900	900	0
8/31/2024 21:32	64204	KINZ_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
8/31/2024 21:32	64203	KINZ_T1	0	0	0	0	0	0	-0.16	-0.17	1	1	0	600	600	0
8/31/2024 21:32	20403	ASHF_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
8/31/2024 21:32	67604	WARW_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
8/31/2024 21:32	12005	HATF_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
8/31/2024 21:32	51402	LYKE_T1	0	0	0	0	0	0	-1.44	-1.41	1	1	0	600	600	0
8/31/2024 21:32	11901	ETEX_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
8/31/2024 21:32	64201	KINZ_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
8/31/2024 21:32	66703	STRA_T1	0	4	4	0	0.23	0.23	-0.74	-0.82	0	0	0	0	0	0
8/31/2024 21:32	60102	COCA_T1	0	0	0	0	0	0	-0.27	-0.34	2	2	0	1200	1200	0
8/31/2024 21:33	10805	CHHI_T2	1	1	0	8.4	7.8	-0.6	-0.86	-0.92	1	1	0	600	600	0
8/31/2024 21:33	14702	TREX_T2	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
8/31/2024 21:33	64101	REFR_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
8/31/2024 21:33	55104	WERT_T2	0	0	0	0	0	0	-1.66	-1.69	3	3	0	2100	2100	0
8/31/2024 21:33	66703	STRA_T1	0	4	4	0	0.23	0.23	-0.74	-0.82	0	0	0	0	0	0
8/31/2024 21:33	16102	BING_T2	14	16	2	0.26	0.33	0.07	0	0	0	0	0	0	0	0
8/31/2024 21:33	16004	DORN_T1	0	0	0	0	0	0	-0.61	-0.63	1	1	0	1200	1200	0
8/31/2024 21:33	16103	BING_T2	0	0	0	0	0	0	-1.06	-1.07	1	1	0	900	900	0
8/31/2024 21:33	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 21:33	63501	HEID_T8K1-2	48	49	1	1.51	1.13	-0.38	-0.12	-0.15	1	1	0	900	900	0
8/31/2024 21:33	40501	CRES_T2	7	10	3	0.21	0.41	0.2	0	0	0	0	0	0	0	0
8/31/2024 21:33	40502	CRES_T2	23	131	108	0.33	0.29	-0.04	-1.06	-1.1	0	0	0	0	0	0
8/31/2024 21:33	40101	HUNT_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
8/31/2024 21:34	64101	REFR_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
8/31/2024 21:34	41902	REED_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
8/31/2024 21:34	29402	BELT_T1	24	2	-22	0.6	4.7	4.1	0	0	0	0	0	0	0	0
8/31/2024 21:34	56501	ROCK_T2	2	2	0	0.2	0.5	0.3	-0.99	-1.04	0	0	0	0	0	0
8/31/2024 21:34	67605	WARW_T1	2	3	1	1	0.7	-0.3	-1.07	-1.09	0	0	0	0	0	0
8/31/2024 21:34	60101	COCA_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
8/31/2024 21:34	29401	BELT_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
8/31/2024 21:34	64605	LEOL_T1	0	0	0	0	0	0	-0.24	-0.27	1	1	0	300	300	0
8/31/2024 21:34	66502	SMAN_T2	0	0	0	0	0	0	-1.03	-1.08	1	1	0	900	900	0
8/31/2024 21:34	53803	MBRG_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
8/31/2024 21:34	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 21:34	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 21:34	10801	CHHI_T1	0	0	0	0	0	0	-1.7	-1.72	3	3	0	2100	2100	0
8/31/2024 21:34	41901	REED_T1	8	8	0	0.25	0.25	0	0	0	0	0	0	0	0	0
8/31/2024 21:34	11104	EGYP_T1	0	0	0	0	0	0	0.37	0.33	0	0	0	0	0	0
8/31/2024 21:34	16004	DORN_T1	0	0	0	0	0	0	-0.61	-0.63	1	1	0	1200	1200	0
8/31/2024 21:34	16302	ALPA_T2	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
8/31/2024 21:35	14702	TREX_T2	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
8/31/2024 21:35	53601	DALM_T2	1	1	0	1	1.2	0.2	0.01	0.01	0	0	0	0	0	0
8/31/2024 21:35	55101	WERT_T1	0	0	0	0	0	0	-4.1	-4.24	6	6	0	4800	4800	0
8/31/2024 21:35	40504	CRES_T1	0	0	0	0	0	0	-1.83	-1.85	0	0	0	0	0	0
8/31/2024 21:35	20403	ASHF_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
8/31/2024 21:35	16302	ALPA_T2	0	0	0	0	0	0	-1.55	-1.64	0	0	0	0	0	0
8/31/2024 21:36	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
8/31/2024 21:36	58401	MORO_T1	0	0	0	0	0	0	-0.87	-0.91	1	1	0	600	600	0
8/31/2024 21:36	41702	LOGA_T2	17	81	64	0.12	0.28	0.16	0	0	0	0	0	0	0	0
8/31/2024 21:36	61502	EPET_T1	0	0	0	0	0	0	-2.26	-2.32	0	0	0	0	0	0
8/31/2024 21:36	10801	CHHI_T1	0	0	0	0	0	0	-1.72	-1.72	3	3	0	2100	2100	0
8/31/2024 21:36	11104	EGYP_T1	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
8/31/2024 21:36	45501	DERR_T2	0	0	0	0	0	0	0.21	0.31	1	1	0	600	600	0
8/31/2024 21:37	66703	STRA_T1	0	4	4	0	0.23	0.23	-0.82	-0.85	0	0	0	0	0	0
8/31/2024 21:37	41903	REED_T1	0	0	0	0	0	0	-0.25	-0.26	1	1	0	1200	1200	0
8/31/2024 21:37	55105	WERT_T1	0	0	0	0	0	0	-0.14	-0.17	1	1	0	900	900	0
8/31/2024 21:37	64101	REFR_T1	0	0	0	0	0	0	0.16	0.12	0	0	0	0	0	0
8/31/2024 21:37	41901	REED_T1	8	8	0	0.25	0.25	0	0	0	0	0	0	0	0	0
8/31/2024 21:37	13704	SCHN_T2	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
8/31/2024 21:37	67605	WARW_T1	2	3	1	1	0.7	-0.3	-1.09	-1.14	0	0	0	0	0	0
8/31/2024 21:37	16002	DORN_T2	0	0	0	0	0	0	-0.39	-0.36	1	1	0	1200	1200	0
8/31/2024 21:37	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 21:38	21501	CEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
8/31/2024 21:38	63305	GREE_T1	3	3	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
8/31/2024 21:38	63304	GREE_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/31/2024 21:38	63302	GREE_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
8/31/2024 21:38	46101	MACI_T2	0	0	0	0	0	0	-0.61	-0.59	1	1	0	1200	1200	0
8/31/2024 21:39	12305	LANA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
8/31/2024 21:39	12302	LANA_T2	0	0	0	0	0	0	-2.5	-2.5	3	3	0	2700	2700	0
8/31/2024 21:39	60101	COCA_T1	0	0	0	0	0	0	0.66	0.57	0	0	0	0	0	0
8/31/2024 21:39	63501	HEID_TBK1-2	48	49	1	1.51	1.13	-0.38	-0.15	-0.15	1	1	0	900	900	0
8/31/2024 21:39	46102	MACI_T1	0	0	0	0	0	0	0.84	0.86	0	0	0	0	0	0
8/31/2024 21:39	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 21:39	54504	ENOL_T2	0	0	0	0	0	0	-1.39	-1.41	1	1	0	600	600	0
8/31/2024 21:40	43103	SMIL_T2	3	4	1	0.2	0.5	0.3	-1.98	-2	0	0	0	0	0	0
8/31/2024 21:40	43102	SMIL_T2	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
8/31/2024 21:40	59003	MIFF_T1	0	1	1	0	0.3	0.3	0.41	0.42	0	0	0	0	0	0
8/31/2024 21:40	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 21:40	59002	MIFF_T1	5	5	0	0.14	0.52	0.38	0	0	0	0	0	0	0	0
8/31/2024 21:41	43802	SWIL_T1	0	0	0	0	0	0	0.1	0.08	1	1	0	600	600	0
8/31/2024 21:41	43201	MVIL_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
8/31/2024 21:41	43801	SWIL_T1	12	17	5	0.68	0.53	-0.15	0	0	0	0	0	0	0	0
8/31/2024 21:41	40101	HUNT_T2	1	0	-1	0.4	0	-0.4	-1.24	-1.25	0	0	0	0	0	0
8/31/2024 21:41	46602	LACR_T1	0	0	0	0	0	0	-0.76	-0.79	0	0	0	0	0	0
8/31/2024 21:41	44201	POIN_T1	155	181	26	0.24	0.24	0	-2.26	-2.33	2	2	0	2100	2100	0
8/31/2024 21:41	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 21:41	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/31/2024 21:42	47401	PENS_T1	0	0	0	0	0	0	0.69	0.72	0	0	0	0	0	0
8/31/2024 21:42	44201	POIN_T1	155	181	26	0.24	0.24	0	-2.26	-2.33	2	2	0	2100	2100	0
8/31/2024 21:43	40702	FFLD_T1	0	0	0	0	0	0	-1.16	-1.17	1	1	0	1200	1200	0
8/31/2024 21:43	55001	NEWP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
8/31/2024 21:43	44801	EDAN_T2	8	22	14	0.23	0.21	-0.02	-1.55	-1.51	0	0	0	0	0	0
8/31/2024 21:43	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2024 21:43	55002	NEWP_T1	5	6	1	1.1	1.4	0.3	-0.16	-0.15	0	0	0	0	0	0
8/31/2024 21:43	45501	DERR_T2	0	0	0	0	0	0	0.21	0.31	1	1	0	600	600	0
8/31/2024 21:43	46203	DANV_T2	1	1	0	6.2	6.2	0	-1.82	-1.86	0	0	0	0	0	0
8/31/2024 21:44	40101	HUNT_T2	1	0	-1	0.4	0	-0.4	-1.24	-1.25	0	0	0	0	0	0
8/31/2024 21:44	41902	REED_T1	0	0	0	0	0	0	0.5	0.33	0	0	0	0	0	0
8/31/2024 21:44	41901	REED_T1	8	8	0	0.25	0.25	0	0	0	0	0	0	0	0	0
8/31/2024 21:44	43103	SMIL_T2	3	4	1	0.2	0.5	0.3	-1.98	-2	0	0	0	0	0	0
8/31/2024 21:44	43106	SMIL_T2	0	0	0	0	0	0	-1.74	-1.76	2	2	0	2400	2400	0
8/31/2024 21:44	43102	SMIL_T2	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
8/31/2024 21:45	43103	SMIL_T2	4	12	8	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
8/31/2024 21:45	43108	SMIL_T2	0	0	0	0	0	0	-1.18	-1.14	1	1	0	1200	1200	0
8/31/2024 21:45	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
8/31/2024 21:45	43102	SMIL_T2	2	5	3	0.15	0.22	0.07	0	0	0	0	0	0	0	0
8/31/2024 21:46	45702	LIND_T2	1	20	19	0.5	0.19	-0.31	0	0	0	0	0	0	0	0
8/31/2024 21:46	43802	SWIL_T1	0	0	0	0	0	0	0.1	0.08	1	1	0	600	600	0
8/31/2024 21:46	44301	BEAV_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
8/31/2024 21:46	43801	SWIL_T1	10	37	27	0.75	0.38	-0.37	0	0	0	0	0	0	0	0
8/31/2024 21:46	44302	BEAV_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
8/31/2024 21:46	45701	LIND_T2	0	0	0	0	0	0	-1.43	-1.46	0	0	0	0	0	0
8/31/2024 21:47	44201	POIN_T1	151	168	17	0.24	0.23	-0.01	-2.26	-2.33	2	2	0	2100	2100	0
8/31/2024 21:47	46402	FLEM_T2	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0
8/31/2024 21:47	44801	EDAN_T2	18	39	21	0.23	0.22	-0.01	-1.55	-1.51	0	0	0	0	0	0
8/31/2024 21:51	46402	FLEM_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
8/31/2024 22:25	65901	SAKR_T2	1	1	0	8.4	8	-0.4	-0.58	-0.58	1	1	0	600	600	0
8/31/2024 22:32	24101	EHAZ_T1	1	8	7	1.2	0	-1.2	0	0	0	0	0	0	0	0
8/31/2024 22:32	24105	EHAZ_T1	4	4	0	6.15	5.85	-0.3	-1.85	-1.89	1	1	0	1200	1200	0
9/1/2024 0:34	28102	TWLA_T2	13	14	1	0.38	0.65	0.27	0.2	0.19	0	0	0	0	0	0
9/1/2024 7:46	64203	KINZ_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
9/1/2024 7:46	64201	KINZ_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/1/2024 7:46	64204	KINZ_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
9/1/2024 7:59	29402	BELT_T1	63	48	-15	0.66	0.68	0.02	0	0	0	0	0	0	0	0
9/1/2024 7:59	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
9/1/2024 8:33	12006	HATF_T1	0	0	0	0	0	0	0.32	0.41	0	0	0	0	0	0
9/1/2024 8:33	12005	HATF_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/1/2024 8:38	44201	POIN_T1	21	9	-12	0.13	0.14	0.01	-6.11	-6.02	3	3	0	3600	3600	0
9/1/2024 8:39	44201	POIN_T1	21	9	-12	0.13	0.14	0.01	-2.04	-2.01	1	1	0	1200	1200	0
9/1/2024 8:40	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 8:41	11903	ETEX_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
9/1/2024 8:43	44301	BEAV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/1/2024 8:49	66302	MCGO_T2	0	0	0	0	0	0	-1.52	-1.47	1	1	0	600	600	0
9/1/2024 8:55	55002	NEWP_T1	2	5	3	0.35	0.4	0.05	-0.14	-0.16	0	0	0	0	0	0
9/1/2024 8:55	29402	BELT_T1	22	12	-10	0.59	0.9	0.31	0	0	0	0	0	0	0	0
9/1/2024 8:59	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/1/2024 9:03	64204	KINZ_T1	1	1	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
9/1/2024 9:03	64201	KINZ_T1	1	1	0	0.2	0.2	0	-0.69	-0.68	3	3	0	1500	1500	0
9/1/2024 9:05	58402	MORO_T1	0	0	0	0	0	0	0.31	0.38	1	1	0	900	900	0
9/1/2024 9:05	64101	REFR_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
9/1/2024 9:06	64101	REFR_T1	0	0	0	0	0	0	0.91	1	0	0	0	0	0	0
9/1/2024 9:07	15603	NSTR_T2	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
9/1/2024 9:07	64101	REFR_T1	0	0	0	0	0	0	0.91	1	0	0	0	0	0	0
9/1/2024 9:07	41902	REED_T1	0	2	2	0	0.2	0.2	1.01	1.02	0	0	0	0	0	0
9/1/2024 9:11	21501	CEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/1/2024 9:23	13303	ORVI_T1	0	0	0	0	0	0	0.91	0.91	0	0	0	0	0	0
9/1/2024 9:24	45901	AUBU_T1	72	50	-22	0.25	0.24	-0.01	0.17	0.17	0	0	0	0	0	0
9/1/2024 9:24	45902	AUBU_T1	213	97	-116	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
9/1/2024 9:33	46101	MACI_T2	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
9/1/2024 9:36	59201	THOM_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/1/2024 9:36	59202	THOM_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/1/2024 9:37	16503	STRO_T2	0	0	0	0	0	0	-0.19	-0.33	1	1	0	1200	1200	0
9/1/2024 9:38	41902	REED_T1	2	5	3	0.25	0.2	-0.05	1.05	1.01	0	0	0	0	0	0
9/1/2024 9:39	67503	WEWI_T2	1	0	6	5.3	5.3	-0.7	0.11	0.18	0	0	0	0	0	0
9/1/2024 9:40	59201	THOM_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/1/2024 9:40	59202	THOM_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/1/2024 9:41	45501	DERR_T2	1	2	1	0.3	0.1	-0.2	0.18	0.21	1	1	0	600	600	0
9/1/2024 9:42	45901	AUBU_T1	39	48	9	0.25	0.24	-0.01	0.17	0.19	0	0	0	0	0	0
9/1/2024 9:42	45501	DERR_T2	1	2	1	0.3	0.1	-0.2	0.18	0.21	1	1	0	600	600	0
9/1/2024 9:42	45902	AUBU_T1	88	60	-28	0.25	0.25	0	0	0	0	0	0	0	0	0
9/1/2024 9:45	63305	GREE_T1	0	0	0	0	0	0	-2.05	-2.11	1	1	0	900	900	0
9/1/2024 9:47	40101	HUNT_T2	2	3	1	0.85	0.4	-0.45	-0.59	-1.18	0	0	0	0	0	0
9/1/2024 9:48	63305	GREE_T1	0	0	0	0	0	0	-2.05	-2.11	1	1	0	900	900	0
9/1/2024 9:54	65802	RTWN_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
9/1/2024 9:56	13101	NHAM_T1	1	1	0	0.7	0	-0.7	-2.31	-2.29	2	2	0	2400	2400	0
9/1/2024 9:56	10701	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 9:56	10705	CATA_T2	0	0	0	0	0	0	-0.65	-0.65	1	1	0	900	900	0
9/1/2024 10:00	41902	REED_T1	4	14	10	0.33	0.1	-0.23	1.01	1.08	0	0	0	0	0	0
9/1/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	0.96	0.92	0	0	0	0	0	0
9/1/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	0.41	0.47	1	1	0	900	900	0
9/1/2024 10:00	52403	GRPA_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
9/1/2024 10:00	13503	MCMI_T2	0	4	4	0	0.13	0.13	-0.85	-0.84	0	0	0	0	0	0
9/1/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-1.47	-1.47	1	1	0	600	600	0
9/1/2024 10:00	53601	DALM_T2	1	1	0	0.2	0.3	0.1	0.03	0.04	0	0	0	0	0	0
9/1/2024 10:00	55105	WERT_T1	0	0	0	0	0	0	-0.22	-0.16	1	1	0	900	900	0
9/1/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.52	0.57	0	0	0	0	0	0
9/1/2024 10:00	66303	MCGO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 10:00	40101	HUNT_T2	2	1	-1	0.6	0.4	-0.2	-1.18	-1.19	0	0	0	0	0	0
9/1/2024 10:00	67503	WEWI_T2	1	1	0	5.3	5.4	0.1	0.18	0.12	0	0	0	0	0	0
9/1/2024 10:02	40101	HUNT_T2	2	1	-1	0.6	0.4	-0.2	-1.18	-1.19	0	0	0	0	0	0
9/1/2024 10:07	49804	UNIV_T1	0	0	0	0	0	0	-0.33	-0.27	0	0	0	0	0	0
9/1/2024 10:07	57401	SPAN_T1	0	1	1	0	0	0	0.68	0.62	1	1	0	600	600	0
9/1/2024 10:07	13101	NHAM_T1	1	1	0	0.7	0	-0.7	-2.29	-2.09	2	2	0	2400	2400	0
9/1/2024 10:07	52403	GRPA_T2	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
9/1/2024 10:07	42801	SEU_T1	0	0	0	0	0	0	-0.88	-0.74	1	1	0	1200	1200	0
9/1/2024 10:07	49803	UNIV_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
9/1/2024 10:08	64101	REFR_T1	0	0	0	0	0	0	0.79	0.46	0	0	0	0	0	0
9/1/2024 10:08	57401	SPAN_T1	0	1	1	0	0	0	-0.68	-0.62	1	1	0	600	600	0
9/1/2024 10:09	57401	SPAN_T1	0	1	1	0	0	0	-1.35	-1.24	2	2	0	1200	1200	0
9/1/2024 10:09	47403	PENS_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
9/1/2024 10:09	47401	PENS_T1	1	1	0	0.1	0	-0.1	0.79	0.88	0	0	0	0	0	0
9/1/2024 10:09	64101	REFR_T1	0	0	0	0	0	0	0.4	0.23	0	0	0	0	0	0
9/1/2024 10:10	49804	UNIV_T1	0	0	0	0	0	0	-0.33	-0.27	0	0	0	0	0	0
9/1/2024 10:10	57401	SPAN_T1	0	1	1	0	0	0	-0.68	-0.62	1	1	0	600	600	0
9/1/2024 10:10	64101	REFR_T1	0	0	0	0	0	0	1.58	0.92	0	0	0	0	0	0
9/1/2024 10:10	49803	UNIV_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
9/1/2024 10:10	13905	SEID_T1	0	0	0	0	0	0	-0.82	-0.81	1	1	0	1200	1200	0
9/1/2024 10:11	42302	MOWR_T2	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
9/1/2024 10:12	59201	THOM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 10:12	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 10:12	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 10:12	10801	CHHI_T1	1	0	-1	0.1	0	-0.1	-1.64	-1.65	3	3	0	2100	2100	0
9/1/2024 10:12	44301	BEAV_T2	0	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0
9/1/2024 10:13	46004	BERW_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
9/1/2024 10:13	59201	THOM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 10:13	45501	DERR_T2	2	3	1	0.6	0.3	-0.3	0.29	0.37	1	1	0	600	600	0
9/1/2024 10:13	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 10:14	45501	DERR_T2	2	3	1	0.6	0.3	-0.3	0.29	0.37	1	1	0	600	600	0
9/1/2024 10:14	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
9/1/2024 10:14	21206	ECAR_T2	9	18	9	1.23	7.6	6.37	-0.12	-0.06	0	0	0	0	0	0
9/1/2024 10:16	40101	HUNT_T2	1	1	0	0.4	0.5	0.1	-1.19	-1.16	0	0	0	0	0	0
9/1/2024 10:16	29402	BELT_T1	1	1	0	8.5	8	-0.5	0	0	0	0	0	0	0	0
9/1/2024 10:16	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
9/1/2024 10:17	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 10:17	52402	GRPA_T2	0	1	1	0	0	0	-0.84	-0.82	0	0	0	0	0	0
9/1/2024 10:18	40101	HUNT_T2	1	1	0	0.4	0.5	0.1	-1.19	-1.16	0	0	0	0	0	0
9/1/2024 10:18	45802	HEGI_T2	48	48	0	1.99	2.2	0.21	0.07	0.08	0	0	0	0	0	0
9/1/2024 10:19	65205	PRIN_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
9/1/2024 10:20	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/1/2024 10:21	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 10:21	40602	PIGR_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/1/2024 10:22	47403	PENS_T1	1	2	1	1.2	0.75	-0.45	0	0	0	0	0	0	0	0
9/1/2024 10:22	56501	ROCK_T2	1	1	0	0.4	0.1	-0.3	-0.92	-0.96	0	0	0	0	0	0
9/1/2024 10:22	42201	SHEN_T2	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
9/1/2024 10:22	56504	ROCK_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 10:22	47401	PENS_T1	1	1	0	0.2	0	-0.2	2.63	2.9	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/1/2024 10:23	40602	PIGR_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/1/2024 10:23	44301	BEAV_T2	1	3	2	0.4	0.9	0.5	-1.28	-1.25	1	1	0	600	600	0
9/1/2024 10:23	40601	PIGR_T1	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
9/1/2024 10:23	56501	ROCK_T2	1	1	0	0.4	0.1	-0.3	-1.85	-1.91	0	0	0	0	0	0
9/1/2024 10:23	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 10:23	56504	ROCK_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 10:24	42201	SHEN_T2	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
9/1/2024 10:24	56501	ROCK_T2	1	1	0	0.4	0.1	-0.3	-0.92	-0.96	0	0	0	0	0	0
9/1/2024 10:24	64101	REFR_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
9/1/2024 10:24	44301	BEAV_T2	1	3	2	0.4	0.9	0.5	-1.28	-1.25	1	1	0	600	600	0
9/1/2024 10:24	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 10:24	56504	ROCK_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 10:26	56504	ROCK_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 10:26	42701	AUGU_T1	1	2	1	0.9	0	-0.9	0	0	2	2	0	1800	1800	0
9/1/2024 10:26	56501	ROCK_T2	1	1	0	0.4	0.1	-0.3	-0.92	-0.96	0	0	0	0	0	0
9/1/2024 10:27	56501	ROCK_T2	1	1	0	0.4	0.1	-0.3	-0.92	-0.96	0	0	0	0	0	0
9/1/2024 10:27	42701	AUGU_T1	1	2	1	0.9	0	-0.9	0	0	2	2	0	1800	1800	0
9/1/2024 10:27	56504	ROCK_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 10:28	44801	EDAN_T2	2	4	2	0.85	0.58	-0.27	-1.48	-1.45	0	0	0	0	0	0
9/1/2024 10:28	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/1/2024 10:29	44801	EDAN_T2	2	4	2	0.85	0.58	-0.27	-2.96	-2.91	0	0	0	0	0	0
9/1/2024 10:31	41001	LAUR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/1/2024 10:31	41002	LAUR_T2	3	4	1	0.23	0.15	-0.08	0.28	0.28	0	0	0	0	0	0
9/1/2024 10:31	52004	LING_T2	2	2	0	3.65	3.95	0.3	0	0	0	0	0	0	0	0
9/1/2024 10:31	52002	LING_T2	0	0	0	0	0	0	0.26	0.35	0	0	0	0	0	0
9/1/2024 10:32	57205	ROSS_T1	1	0	-1	0.1	0	-0.1	-0.66	-0.62	1	1	0	900	900	0
9/1/2024 10:34	52004	LING_T2	2	2	0	3.65	3.95	0.3	0	0	0	0	0	0	0	0
9/1/2024 10:34	64204	KINZ_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
9/1/2024 10:34	64203	KINZ_T1	0	0	0	0	0	0	0.47	-0.13	0	1	1	0	600	600
9/1/2024 10:34	52002	LING_T2	0	0	0	0	0	0	0.26	0.35	0	0	0	0	0	0
9/1/2024 10:36	42201	SHEN_T2	0	0	0	0	0	0	0.59	0.63	0	0	0	0	0	0
9/1/2024 10:37	66504	SMAN_T2	0	1	1	0	0.1	0.1	-2.7	-2.62	2	2	0	2400	2400	0
9/1/2024 10:38	67503	WEWI_T2	1	1	0	5.1	5.6	0.5	0.15	-0.28	0	0	0	0	0	0
9/1/2024 10:38	66504	SMAN_T2	0	1	1	0	0.1	0.1	-1.35	-1.31	1	1	0	1200	1200	0
9/1/2024 10:38	59201	THOM_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/1/2024 10:38	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 10:39	56501	ROCK_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
9/1/2024 10:39	56504	ROCK_T2	1	2	1	0.2	0.35	0.15	0.09	0.11	0	0	0	0	0	0
9/1/2024 10:40	12302	LANA_T2	0	0	0	0	0	0	-1.34	-1.36	2	2	0	1500	1500	0
9/1/2024 10:41	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/1/2024 10:42	56504	ROCK_T2	1	2	1	0.2	0.35	0.15	0.17	0.23	0	0	0	0	0	0
9/1/2024 10:42	67503	WEWI_T2	1	1	0	5.1	5.6	0.5	0.15	-0.28	0	0	0	0	0	0
9/1/2024 10:42	45501	DERR_T2	3	2	-1	0.23	0	-0.23	0	0	0	0	0	0	0	0
9/1/2024 10:42	56501	ROCK_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
9/1/2024 10:42	45502	DERR_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
9/1/2024 10:43	56504	ROCK_T2	1	2	1	0.2	0.35	0.15	0.09	0.11	0	0	0	0	0	0
9/1/2024 10:43	56501	ROCK_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
9/1/2024 10:45	63501	HEID_TBK1-2	48	49	1	1.18	1.4	0.22	-0.14	-0.08	1	1	0	900	900	0
9/1/2024 10:45	56501	ROCK_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
9/1/2024 10:45	46803	HEPB_T2	1	1	0	0.2	0.2	0	0.46	0.48	0	0	0	0	0	0
9/1/2024 10:45	46801	HEPB_T2	2	2	0	1.35	1.2	-0.15	0	0	0	0	0	0	0	0
9/1/2024 10:45	56504	ROCK_T2	2	2	0	0.55	0	-0.55	0.09	0.11	0	0	0	0	0	0
9/1/2024 10:46	63501	HEID_TBK1-2	48	49	1	1.18	1.4	0.22	-0.29	-0.16	2	2	0	1800	1800	0
9/1/2024 10:47	46801	HEPB_T2	2	2	0	1.35	1.2	-0.15	0.04	0.05	0	0	0	0	0	0
9/1/2024 10:47	46803	HEPB_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/1/2024 10:48	46803	HEPB_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/1/2024 10:48	46801	HEPB_T2	2	2	0	1.35	1.2	-0.15	0.04	0.05	0	0	0	0	0	0
9/1/2024 10:48	54506	ENOL_T2	1	1	0	0.7	0.6	-0.1	-0.24	-0.15	1	1	0	600	600	0
9/1/2024 10:49	64801	MONE_T2	0	1	1	0	0.1	0.1	-0.27	-0.28	0	0	0	0	0	0
9/1/2024 10:49	21206	ECAR_T2	2	1	-1	4.65	7.5	2.85	-0.11	-0.04	0	0	0	0	0	0
9/1/2024 10:49	42902	MIDD_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
9/1/2024 10:49	42903	MIDD_T2	0	0	0	0	0	0	0.31	0.21	0	0	0	0	0	0
9/1/2024 10:49	41002	LAUR_T2	2	4	2	0.15	0.15	0	0.28	0.3	0	0	0	0	0	0
9/1/2024 10:49	41001	LAUR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/1/2024 10:49	21204	ECAR_T2	1	1	0	0	0.3	0.3	0	0	0	0	0	0	0	0
9/1/2024 10:50	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/1/2024 10:51	66505	SMAN_T2	0	0	0	0	0	0	0.12	0.18	3	3	0	2100	2100	0
9/1/2024 10:51	58402	MORO_T1	1	3	2	0.2	0	-0.2	0.42	0.47	1	1	0	900	900	0
9/1/2024 10:51	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/1/2024 10:52	41902	REED_T1	9	1	-8	0.21	0	-0.21	0.32	0.38	1	1	0	900	900	0
9/1/2024 10:52	44203	POIN_T2	5	5	0	1.76	0.95	-0.81	0.21	0.22	1	1	0	900	900	0
9/1/2024 10:54	41902	REED_T1	9	1	-8	0.21	0	-0.21	0.32	0.38	1	1	0	900	900	0
9/1/2024 10:54	42201	SHEN_T2	0	1	1	0	0	0	0.63	0.62	0	0	0	0	0	0
9/1/2024 10:55	56501	ROCK_T2	1	1	0	0.1	0.6	0.5	-0.89	-0.84	0	0	0	0	0	0
9/1/2024 10:55	56504	ROCK_T2	2	2	0	0.55	0	-0.55	0	0	0	0	0	0	0	0
9/1/2024 10:57	53601	DALM_T2	1	0	-1	0.1	0	-0.1	0.05	0.14	0	0	0	0	0	0
9/1/2024 10:57	44801	EDAN_T2	3	4	1	0.77	0.43	-0.34	-1.44	-1.42	0	0	0	0	0	0
9/1/2024 10:59	42701	AUGU_T1	0	3	3	0	0.17	0.17	0	0	2	2	0	1800	1800	0
9/1/2024 11:00	52006	LING_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 11:00	52002	LING_T2	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
9/1/2024 11:00	52004	LING_T2	2	2	0	3.75	3.9	0.15	0	0	0	0	0	0	0	0
9/1/2024 11:02	40101	HUNT_T2	1	43	42	1.1	0.4	-0.7	-2.19	-2.21	0	0	0	0	0	0
9/1/2024 11:02	52401	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/1/2024 11:02	52402	GRPA_T2	2	2	0	1.1	0.2	-0.9	-0.74	-0.71	0	0	0	0	0	0
9/1/2024 11:03	40101	HUNT_T2	1	43	42	1.1	0.4	-0.7	-1.09	-1.11	0	0	0	0	0	0
9/1/2024 11:03	28702	HAML_T2	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
9/1/2024 11:03	52404	GRPA_T2	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
9/1/2024 11:03	52401	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/1/2024 11:03	52402	GRPA_T2	2	2	0	1.1	0.2	-0.9	0	0	0	0	0	0	0	0
9/1/2024 11:04	52402	GRPA_T2	2	2	0	1.1	0.2	-0.9	-0.74	-0.71	0	0	0	0	0	0
9/1/2024 11:04	52006	LING_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 11:04	52401	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/1/2024 11:04	52002	LING_T2	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
9/1/2024 11:04	52004	LING_T2	2	2	0	3.75	3.9	0.15	0	0	0	0	0	0	0	0
9/1/2024 11:06	15203	SFAR_T2	0	0	0	0	0	0	-0.82	-0.82	0	0	0	0	0	0
9/1/2024 11:07	44203	POIN_T2	4	5	1	0.95	1.3	0.35	0.22	0.17	1	1	0	900	900	0
9/1/2024 11:08	64603	LEOL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 11:08	56504	ROCK_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
9/1/2024 11:08	55101	WERT_T1	0	0	0	0	0	0	-1.28	-1.22	2	2	0	1500	1500	0
9/1/2024 11:08	56501	ROCK_T2	1	1	0	0.6	0.8	0.2	-1.67	-1.56	0	0	0	0	0	0
9/1/2024 11:08	64602	LEOL_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
9/1/2024 11:09	45902	AUBU_T1	31	27	-4	0.33	0.32	-0.01	-1.65	-1.58	0	0	0	0	0	0
9/1/2024 11:09	55101	WERT_T1	0	0	0	0	0	0	-2.56	-2.45	4	4	0	3000	3000	0
9/1/2024 11:09	56504	ROCK_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
9/1/2024 11:09	56501	ROCK_T2	1	1	0	0.6	0.8	0.2	-1.67	-1.56	0	0	0	0	0	0
9/1/2024 11:09	42601	TUSC_T1	0	0	0	0	0	0	-0.23	-0.28	2	2	0	1800	1800	0
9/1/2024 11:09	45901	AUBU_T1	37	24	-13	0.23	0.18	-0.05	0.2	0.19	0	0	0	0	0	0
9/1/2024 11:10	45901	AUBU_T1	37	24	-13	0.23	0.18	-0.05	0.2	0.19	0	0	0	0	0	0
9/1/2024 11:10	60801	BUCK_T1	0	0	0	0	0	0	-0.68	-0.68	1	1	0	600	600	0
9/1/2024 11:10	45902	AUBU_T1	31	27	-4	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
9/1/2024 11:10	42201	SHEN_T2	0	0	0	0	0	0	0.62	0.72	0	0	0	0	0	0
9/1/2024 11:11	55101	WERT_T1	0	0	0	0	0	0	-1.28	-1.22	2	2	0	1500	1500	0
9/1/2024 11:11	45901	AUBU_T1	37	24	-13	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
9/1/2024 11:11	56504	ROCK_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
9/1/2024 11:11	45902	AUBU_T1	31	27	-4	0.33	0.32	-0.01	-0.55	-0.53	0	0	0	0	0	0
9/1/2024 11:11	56501	ROCK_T2	1	1	0	0.6	0.8	0.2	-0.84	-0.78	0	0	0	0	0	0
9/1/2024 11:11	40201	BEGA_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
9/1/2024 11:12	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 11:12	45902	AUBU_T1	31	27	-4	0.33	0.32	-0.01	-0.55	-0.53	0	0	0	0	0	0
9/1/2024 11:12	55002	NEWP_T1	1	2	1	0.9	0.95	0.05	-0.05	-0.02	0	0	0	0	0	0
9/1/2024 11:12	40201	BEGA_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
9/1/2024 11:12	42601	TUSC_T1	0	0	0	0	0	0	-0.23	-0.28	2	2	0	1800	1800	0
9/1/2024 11:12	57401	SPAN_T1	0	1	1	0	0	0	-0.53	-0.98	1	1	0	600	600	0
9/1/2024 11:12	45901	AUBU_T1	37	24	-13	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
9/1/2024 11:13	55101	WERT_T1	0	0	0	0	0	0	-1.28	-1.22	2	2	0	1500	1500	0
9/1/2024 11:13	60101	COCA_T1	0	0	0	0	0	0	1.3	1.27	0	0	0	0	0	0
9/1/2024 11:15	45501	DERR_T2	2	2	0	0.3	0	-0.3	0.43	0.41	1	1	0	600	600	0
9/1/2024 11:15	63501	HEID_TBK1-2	49	49	0	1.67	1.78	0.11	-0.06	0.06	1	1	0	900	900	0
9/1/2024 11:16	20601	GRWO_T2	4	4	0	0.48	0	-0.48	0	0	0	0	0	0	0	0
9/1/2024 11:16	20603	GRWO_T2	0	0	0	0	0	0	-0.47	-0.44	1	1	0	900	900	0
9/1/2024 11:21	13503	MCMI_T2	38	6	-32	0.16	0.13	-0.03	-0.8	-0.82	0	0	0	0	0	0
9/1/2024 11:23	45901	AUBU_T1	24	14	-10	0.18	0.19	0.01	0.19	0.21	0	0	0	0	0	0
9/1/2024 11:23	45902	AUBU_T1	26	19	-7	0.31	0.38	0.07	0	0	0	0	0	0	0	0
9/1/2024 11:24	42802	SELI_T1	0	0	0	0	0	0	-2.13	-2.59	3	3	0	2700	2700	0
9/1/2024 11:25	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 11:27	40201	BEGA_T2	1	2	1	0.7	1	0.3	0	0	0	0	0	0	0	0
9/1/2024 11:27	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 11:28	43103	SMIL_T2	0	0	0	0	0	0	-1.59	-1.65	0	0	0	0	0	0
9/1/2024 11:28	45901	AUBU_T1	24	14	-10	0.18	0.19	0.01	0.19	0.21	0	0	0	0	0	0
9/1/2024 11:28	43108	SMIL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/1/2024 11:28	43101	SMIL_T2	3	13	10	0.67	0.45	-0.22	0	0	0	0	0	0	0	0
9/1/2024 11:28	45902	AUBU_T1	26	19	-7	0.31	0.38	0.07	0	0	0	0	0	0	0	0
9/1/2024 11:29	43108	SMIL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/1/2024 11:29	43103	SMIL_T2	0	0	0	0	0	0	-1.59	-1.65	0	0	0	0	0	0
9/1/2024 11:29	43101	SMIL_T2	3	13	10	0.67	0.45	-0.22	0	0	0	0	0	0	0	0
9/1/2024 11:30	43103	SMIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 11:30	43108	SMIL_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
9/1/2024 11:30	43101	SMIL_T2	2	15	13	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
9/1/2024 11:30	63302	GREE_T1	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
9/1/2024 11:31	61306	EARL_T1	0	0	0	0	0	0	-1.19	-1.17	0	0	0	0	0	0
9/1/2024 11:31	21206	ECAR_T2	2	12	10	3.9	1.48	-2.42	0	0	0	0	0	0	0	0
9/1/2024 11:31	21204	ECAR_T2	1	1	0	0.2	0	-0.2	-0.51	-0.5	0	0	0	0	0	0
9/1/2024 11:32	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 11:32	47101	MARL_T1	6	6	0	0.8	0.95	0.15	0.04	-0.58	0	0	0	0	0	0
9/1/2024 11:32	52402	GRPA_T2	1	6	5	0.2	0.37	0.17	0	0	0	0	0	0	0	0
9/1/2024 11:32	45802	HEGI_T2	46	43	-3	1.18	0.85	-0.33	0.23	0.26	0	0	0	0	0	0
9/1/2024 11:32	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 11:32	52401	GRPA_T2	0	1	1	0	0	0	-0.41	-0.36	0	0	0	0	0	0
9/1/2024 11:34	47101	MARL_T1	6	6	0	0.8	0.95	0.15	0.04	-0.58	0	0	0	0	0	0
9/1/2024 11:34	65001	NEFF_T2	0	0	0	0	0	0	-0.87	-0.76	1	1	0	1200	1200	0
9/1/2024 11:35	64701	LITI_T1	0	9	9	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 11:35	47101	MARL_T1	6	6	0	0.8	0.95	0.15	0.04	-0.58	0	0	0	0	0	0
9/1/2024 11:35	64704	LITI_T1	0	0	0	0	0	0	0.13	0.23	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/1/2024 11:38	57401	SPAN_T1	1	2	1	3.4	4.9	1.5	-0.94	-0.73	1	1	0	600	600	0
9/1/2024 11:38	64101	REFR_T1	0	3	3	0	0	0	0.36	0.39	0	0	0	0	0	0
9/1/2024 11:39	20401	ASHF_T2	4	2	-2	0.88	0.85	-0.03	0	0	0	0	0	0	0	0
9/1/2024 11:39	42801	SELI_T1	0	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0
9/1/2024 11:39	57404	SPAN_T2	0	5	5	0	0.32	0.32	0.61	0.77	1	1	0	1200	1200	0
9/1/2024 11:39	57401	SPAN_T1	1	2	1	3.4	4.9	1.5	-0.94	-0.73	1	1	0	600	600	0
9/1/2024 11:39	42802	SELI_T1	0	0	0	0	0	0	-1.72	-1.81	2	2	0	1800	1800	0
9/1/2024 11:39	42503	ALTA_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
9/1/2024 11:39	20403	ASHF_T2	0	1	1	0	0	0	0.51	0.61	0	0	0	0	0	0
9/1/2024 11:39	49803	UNIV_T1	1	1	0	6.2	6.4	0.2	-1.68	-1.65	0	0	0	0	0	0
9/1/2024 11:40	42801	SELI_T1	0	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0
9/1/2024 11:40	42802	SELI_T1	0	0	0	0	0	0	-0.86	-0.9	1	1	0	900	900	0
9/1/2024 11:41	20401	ASHF_T2	4	2	-2	0.88	0.85	-0.03	0	0	0	0	0	0	0	0
9/1/2024 11:41	57401	SPAN_T1	1	2	1	3.4	4.9	1.5	-0.94	-0.73	1	1	0	600	600	0
9/1/2024 11:41	20403	ASHF_T2	0	1	1	0	0	0	0.51	0.61	0	0	0	0	0	0
9/1/2024 11:42	42701	AUGU_T1	6	15	9	0.4	0.27	-0.13	0	0	2	2	0	1800	1800	0
9/1/2024 11:44	20403	ASHF_T2	0	1	1	0	0	0	0.51	0.61	0	0	0	0	0	0
9/1/2024 11:44	20401	ASHF_T2	4	2	-2	0.88	0.85	-0.03	0	0	0	0	0	0	0	0
9/1/2024 11:45	60102	COCA_T1	0	0	0	0	0	0	-0.11	-0.34	2	2	0	1200	1200	0
9/1/2024 11:46	42701	AUGU_T1	10	15	5	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/1/2024 11:46	51603	DUKE_T1	0	0	0	0	0	0	-0.85	-0.75	0	0	0	0	0	0
9/1/2024 11:46	52004	LING_T2	2	2	0	3.9	3.8	-0.1	-0.01	0	0	0	0	0	0	0
9/1/2024 11:47	53903	HALI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/1/2024 11:47	53902	HALI_T2	1	1	0	4.2	4.3	0.1	-1.28	-1.24	0	0	0	0	0	0
9/1/2024 11:47	25402	LAHA_T2	0	0	0	0	0	0	-0.5	-0.4	0	0	0	0	0	0
9/1/2024 11:49	44703	MUNC_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 11:50	53902	HALI_T2	1	1	0	4.2	4.3	0.1	-0.64	-0.62	0	0	0	0	0	0
9/1/2024 11:50	53903	HALI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/1/2024 11:52	67605	WARW_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
9/1/2024 11:52	67603	WARW_T1	0	0	0	0	0	0	0.21	0.28	0	0	0	0	0	0
9/1/2024 11:52	44201	POIN_T1	0	0	0	0	0	0	-1.67	-1.65	1	1	0	1200	1200	0
9/1/2024 11:52	44703	MUNC_T2	0	4	4	0	0	0	0.26	0.31	0	0	0	0	0	0
9/1/2024 11:52	52004	LING_T2	2	2	0	3.9	3.8	-0.1	0	0	0	0	0	0	0	0
9/1/2024 11:52	58202	NEWV_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
9/1/2024 11:53	42802	SELI_T1	0	0	0	0	0	0	-0.9	-0.81	1	1	0	900	900	0
9/1/2024 11:54	59101	WALK_T2	1	1	0	1.3	1.4	0.1	0.09	0.11	0	0	0	0	0	0
9/1/2024 11:54	14201	EALL_T1	0	0	0	0	0	0	0.94	0.9	0	0	0	0	0	0
9/1/2024 11:55	41902	REED_T1	8	8	0	0.4	0.2	-0.2	0.4	0.41	1	1	0	900	900	0
9/1/2024 11:55	57401	SPAN_T1	1	4	3	4.9	3.6	-1.3	-0.73	-0.63	1	1	0	600	600	0
9/1/2024 11:55	41901	REED_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
9/1/2024 11:55	59101	WALK_T2	1	1	0	1.3	1.4	0.1	0.09	0.11	0	0	0	0	0	0
9/1/2024 11:56	57401	SPAN_T1	1	4	3	4.9	3.6	-1.3	-0.73	-0.63	1	1	0	600	600	0
9/1/2024 11:56	59101	WALK_T2	1	1	0	1.3	1.4	0.1	0.09	0.11	0	0	0	0	0	0
9/1/2024 11:57	52202	DEVO_T2	0	1	1	0	0	0	-0.84	-0.8	0	0	0	0	0	0
9/1/2024 11:57	52204	DEVO_T2	6	6	0	0.63	0.55	-0.08	0	0	0	0	0	0	0	0
9/1/2024 11:58	55001	NEWP_T1	1	1	0	0.1	1	0.9	-0.84	-0.8	2	2	0	1200	1200	0
9/1/2024 11:58	60101	COCA_T1	0	0	0	0	0	0	2.28	2.48	0	0	0	0	0	0
9/1/2024 11:58	40201	BEGA_T2	2	4	2	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
9/1/2024 11:58	55002	NEWP_T1	2	1	-1	0.95	2.4	1.45	0	0	0	0	0	0	0	0
9/1/2024 11:59	55002	NEWP_T1	2	1	-1	0.95	2.4	1.45	0	0	0	0	0	0	0	0
9/1/2024 11:59	55001	NEWP_T1	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
9/1/2024 12:00	52204	DEVO_T2	6	6	0	0.58	0.68	0.1	0	0	0	0	0	0	0	0
9/1/2024 12:00	67703	WERN_T2	0	0	0	0	0	0	-0.39	-0.33	1	1	0	900	900	0
9/1/2024 12:00	22101	EDEL_T2	0	0	0	0	0	0	1.04	1.01	1	1	0	1200	1200	0
9/1/2024 12:00	52202	DEVO_T2	0	1	1	0	0	0	-1.69	-1.59	0	0	0	0	0	0
9/1/2024 12:01	52204	DEVO_T2	6	6	0	0.58	0.68	0.1	0	0	0	0	0	0	0	0
9/1/2024 12:01	60102	COCA_T1	0	0	0	0	0	0	-0.34	-0.3	2	2	0	1200	1200	0
9/1/2024 12:01	52202	DEVO_T2	0	1	1	0	0	0	-0.84	-0.8	0	0	0	0	0	0
9/1/2024 12:02	60101	COCA_T1	0	0	0	0	0	0	0.76	0.83	0	0	0	0	0	0
9/1/2024 12:03	20601	GRWO_T2	7	57	50	0.34	0.55	0.21	0.78	0.83	0	0	0	0	0	0
9/1/2024 12:05	40101	HUNT_T2	19	31	12	0.54	0.41	-0.13	-1.08	-1.04	0	0	0	0	0	0
9/1/2024 12:05	41902	REED_T1	7	0	-7	0.34	0.16	-0.18	0.4	0.41	1	1	0	900	900	0
9/1/2024 12:06	41702	LOGA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/1/2024 12:07	67203	TEHI_T1	0	1	1	0	0.4	0.4	1.23	1.2	1	1	0	900	900	0
9/1/2024 12:07	67201	TEHI_T1	0	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0
9/1/2024 12:07	42601	TUSC_T1	0	0	0	0	0	0	-0.13	-0.16	2	2	0	1800	1800	0
9/1/2024 12:08	66503	SMAN_T2	0	0	0	0	0	0	0.8	0.86	0	0	0	0	0	0
9/1/2024 12:08	66505	SMAN_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/1/2024 12:08	54203	PENN_T1	5	4	-1	0.54	0.35	-0.19	0.04	0.08	1	1	0	600	600	0
9/1/2024 12:08	54201	PENN_T1	3	3	0	1.2	1.2	0	0	0	0	0	0	0	0	0
9/1/2024 12:08	52004	LING_T2	2	2	0	3.8	3.9	0.1	0	0.04	0	0	0	0	0	0
9/1/2024 12:09	67605	WARW_T1	1	1	0	0.6	1.1	0.5	-0.9	-0.9	0	0	0	0	0	0
9/1/2024 12:09	52004	LING_T2	2	2	0	3.8	3.9	0.1	0	0.04	0	0	0	0	0	0
9/1/2024 12:10	67503	WEWI_T2	1	3	2	4.9	1.6	-3.3	-0.18	-0.13	0	0	0	0	0	0
9/1/2024 12:10	67201	TEHI_T1	0	2	2	0	0.85	0.85	0.63	0.62	0	0	0	0	0	0
9/1/2024 12:10	67203	TEHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/1/2024 12:11	57401	SPAN_T1	2	4	2	4.2	1	-3.2	-0.63	-0.64	1	1	0	600	600	0
9/1/2024 12:11	59101	WALK_T2	1	1	0	1.4	1.1	-0.3	0.11	0.15	0	0	0	0	0	0
9/1/2024 12:12	60301	NWIA_T2	0	1	1	0	0	0	-2.83	-2.77	2	2	0	1800	1800	0
9/1/2024 12:12	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/1/2024 12:13	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	-0.01	-0.01	2	2	0	1200	1200	0
9/1/2024 12:13	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 12:14	43108	SMIL_T2	1	1	0	0.6	0.1	-0.5	-1.37	-1.67	2	2	0	2400	2400	0
9/1/2024 12:14	43101	SMIL_T2	12	14	2	0.37	0.44	0.07	0	0	0	0	0	0	0	0
9/1/2024 12:16	43101	SMIL_T2	14	29	15	0.64	0.52	-0.12	0	0	0	0	0	0	0	0
9/1/2024 12:16	43108	SMIL_T2	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
9/1/2024 12:16	53502	EVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/1/2024 12:16	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
9/1/2024 12:16	43103	SMIL_T2	0	0	0	0	0	0	-1.57	-1.58	0	0	0	0	0	0
9/1/2024 12:16	26803	JAFR_T1	0	0	0	0	0	0	-0.14	-0.1	1	1	0	900	900	0
9/1/2024 12:17	53502	EVIL_T2	1	0	-1	0.4	0	-0.4	0.1	0.15	1	1	0	600	600	0
9/1/2024 12:17	43101	SMIL_T2	14	29	15	0.64	0.52	-0.12	0	0	0	0	0	0	0	0
9/1/2024 12:17	43108	SMIL_T2	1	1	0	0.9	0	-0.9	-0.69	-0.83	1	1	0	1200	1200	0
9/1/2024 12:18	43103	SMIL_T2	0	0	0	0	0	0	-3.13	-3.17	0	0	0	0	0	0
9/1/2024 12:18	43101	SMIL_T2	14	29	15	0.64	0.52	-0.12	0	0	0	0	0	0	0	0
9/1/2024 12:18	43108	SMIL_T2	1	1	0	0.9	0	-0.9	-0.69	-0.83	1	1	0	1200	1200	0
9/1/2024 12:18	13503	MCMI_T2	2	16	14	0.1	0.35	0.25	-1.58	-1.53	0	0	0	0	0	0
9/1/2024 12:19	16402	MOPO_T1	2	1	-1	0.35	0	-0.35	-0.01	-0.01	0	0	0	0	0	0
9/1/2024 12:20	53901	HALI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 12:20	23102	MOSC_T2	0	0	0	0	0	0	-0.13	-0.1	2	2	0	1800	1800	0
9/1/2024 12:20	53903	HALI_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/1/2024 12:20	16402	MOPO_T1	2	1	-1	0.35	0	-0.35	-0.01	-0.01	0	0	0	0	0	0
9/1/2024 12:20	53902	HALI_T2	1	1	0	3.5	3.4	-0.1	-0.62	-0.6	0	0	0	0	0	0
9/1/2024 12:21	66505	SMAN_T2	2	3	1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
9/1/2024 12:21	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 12:21	66502	SMAN_T2	0	0	0	0	0	0	-0.85	-0.92	0	0	0	0	0	0
9/1/2024 12:21	41902	REED_T1	5	9	4	0.2	0.24	0.04	0.45	0.42	1	1	0	900	900	0
9/1/2024 12:23	14702	TREX_T2	0	0	0	0	0	0	0.88	0.89	0	0	0	0	0	0
9/1/2024 12:23	44202	POIN_T2	0	0	0	0	0	0	-0.62	-0.6	1	1	0	1200	1200	0
9/1/2024 12:23	44203	POIN_T2	5	6	1	1.2	1.24	0.04	0	0	0	0	0	0	0	0
9/1/2024 12:24	14702	TREX_T2	0	0	0	0	0	0	0.88	0.89	0	0	0	0	0	0
9/1/2024 12:25	66703	STRA_T1	0	0	0	0	0	0	-0.4	-0.3	0	0	0	0	0	0
9/1/2024 12:26	57401	SPAN_T1	4	2	-2	2.3	0.5	-1.8	-0.64	-0.63	1	1	0	600	600	0
9/1/2024 12:26	59001	MIFF_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/1/2024 12:26	59003	MIFF_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
9/1/2024 12:26	66703	STRA_T1	0	0	0	0	0	0	-0.4	-0.3	0	0	0	0	0	0
9/1/2024 12:28	45602	WOOL_T1	0	6	6	0	0.2	0.2	0.49	0.45	0	0	0	0	0	0
9/1/2024 12:28	11104	EGYP_T1	6	7	1	1.28	1.34	0.06	1.06	1.06	0	0	0	0	0	0
9/1/2024 12:28	11102	EGYP_T1	3	1	-2	0.83	1.4	0.57	0	0	0	0	0	0	0	0
9/1/2024 12:28	11101	EGYP_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
9/1/2024 12:30	65901	SAKR_T2	1	1	0	6	5.6	-0.4	-0.19	0.1	1	1	0	600	600	0
9/1/2024 12:30	40602	PIGR_T1	1	1	0	1	0.8	-0.2	-1.33	-1.32	1	1	0	600	600	0
9/1/2024 12:31	29402	BELT_T1	95	106	11	1.1	1.1	0	0	0	0	0	0	0	0	0
9/1/2024 12:33	63403	HONY_T2	0	1	1	0	0.3	0.3	-0.79	-0.8	1	1	0	600	600	0
9/1/2024 12:35	53901	HALI_T2	0	1	1	0	0.3	0.3	-0.71	-0.67	0	0	0	0	0	0
9/1/2024 12:35	53902	HALI_T2	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
9/1/2024 12:36	23102	MOSC_T2	0	0	0	0	0	0	-0.1	-0.09	2	2	0	1800	1800	0
9/1/2024 12:37	47502	NECO_T1	0	0	0	0	0	0	0.91	0.96	0	0	0	0	0	0
9/1/2024 12:37	47403	PENS_T1	3	2	-1	0.73	1.35	0.62	0	0	0	0	0	0	0	0
9/1/2024 12:37	66901	SHIL_T2	0	0	0	0	0	0	-1.18	-1.13	1	1	0	1200	1200	0
9/1/2024 12:37	41902	REED_T1	7	9	2	0.3	0.1	-0.2	0.42	0.39	1	1	0	900	900	0
9/1/2024 12:37	47401	PENS_T1	4	2	-2	0.33	0.25	-0.08	2.24	2.12	0	0	0	0	0	0
9/1/2024 12:37	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 12:38	56501	ROCK_T2	1	3	2	1	0.8	-0.2	-0.63	-0.55	0	0	0	0	0	0
9/1/2024 12:38	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 12:38	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 12:38	56504	ROCK_T2	3	5	2	0.33	0.48	0.15	0	0	0	0	0	0	0	0
9/1/2024 12:39	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 12:39	14302	SUMN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/1/2024 12:39	55101	WERT_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
9/1/2024 12:39	14308	SUMN_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
9/1/2024 12:39	14303	SUMN_T1	3	3	0	7.8	7.77	-0.03	0	0	0	0	0	0	0	0
9/1/2024 12:39	55105	WERT_T1	0	0	0	0	0	0	0.26	0.28	1	1	0	900	900	0
9/1/2024 12:40	67605	WARW_T1	1	1	0	1.1	0.5	-0.6	-0.89	-1.02	0	0	0	0	0	0
9/1/2024 12:40	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 12:41	57401	SPAN_T1	2	4	2	1.05	0.5	-0.55	-0.63	-0.65	1	1	0	600	600	0
9/1/2024 12:41	55001	NEWP_T1	1	1	0	1.9	3	1.1	-0.36	-0.35	1	1	0	600	600	0
9/1/2024 12:41	61001	DONV_T1	1	1	0	1.8	0.8	-1	0.44	0.39	0	0	0	0	0	0
9/1/2024 12:41	55002	NEWP_T1	1	1	0	2	0.7	-1.3	0	0	0	0	0	0	0	0
9/1/2024 12:41	55101	WERT_T1	1	1	0	0.8	0	-0.8	-1.17	-1.12	2	2	0	1500	1500	0
9/1/2024 12:41	47401	PENS_T1	4	2	-2	0.33	0.25	-0.08	2.24	2.12	0	0	0	0	0	0
9/1/2024 12:41	47403	PENS_T1	3	2	-1	0.73	1.35	0.62	0	0	0	0	0	0	0	0
9/1/2024 12:41	54602	SUMM_T2	0	0	0	0	0	0	-1.92	-1.92	1	1	0	600	600	0
9/1/2024 12:42	55002	NEWP_T1	1	1	0	2	0.7	-1.3	0	0	0	0	0	0	0	0
9/1/2024 12:42	14702	TREX_T2	0	0	0	0	0	0	0.89	0.91	0	0	0	0	0	0
9/1/2024 12:42	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 12:42	21501	CEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/1/2024 12:42	55001	NEWP_T1	1	1	0	1.9	3	1.1	-0.36	-0.35	1	1	0	600	600	0
9/1/2024 12:43	14702	TREX_T2	0	0	0	0	0	0	0.89	0.91	0	0	0	0	0	0
9/1/2024 12:44	29402	BELT_T1	95	106	11	1.1	1.1	0	0	0	0	0	0	0	0	0
9/1/2024 12:44	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 12:44	46004	BERW_T2	0	1	1	0	0	0	-0.12	-0.11	0	0	0	0	0	0
9/1/2024 12:44	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/1/2024 12:44	11104	EGYP_T1	7	7	0	1.53	0.54	-0.99	1.06	0.71	0	0	0	0	0	0
9/1/2024 12:44	61505	EPET_T1	0	0	0	0	0	0	1.13	1.16	0	0	0	0	0	0
9/1/2024 12:44	11102	EGYP_T1	1	3	2	1.4	1.5	0.1	0	0	0	0	0	0	0	0
9/1/2024 12:45	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 12:45	56504	ROCK_T2	5	5	0	1.06	0.58	-0.48	0	0	0	0	0	0	0	0
9/1/2024 12:45	56501	ROCK_T2	1	5	4	1	0.6	-0.4	-0.63	-0.55	0	0	0	0	0	0
9/1/2024 12:46	22803	HAUT_T2	1	5	4	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/1/2024 12:46	57401	SPAN_T1	3	5	2	3.4	0.6	-2.8	-0.63	-0.65	1	1	0	600	600	0
9/1/2024 12:46	22805	HAUT_T2	7	6	-1	1	0.1	-0.9	-1.32	-1.32	1	1	0	1200	1200	0
9/1/2024 12:46	27201	YATE_T1	1	0	-1	1.3	0	-1.3	-21.6	-21.6	0	0	0	0	0	0
9/1/2024 12:46	52204	DEVO_T2	6	6	0	0.97	0.87	-0.1	0	0	0	0	0	0	0	0
9/1/2024 12:46	52202	DEVO_T2	0	1	1	0	0	0	-1.6	-1.58	0	0	0	0	0	0
9/1/2024 12:47	64305	LINC_T1	0	1	1	0	0.6	0.6	-0.02	-0.04	0	0	0	0	0	0
9/1/2024 12:47	11104	EGYP_T1	7	5	-2	1.34	0.54	-0.8	1.06	0.71	0	0	0	0	0	0
9/1/2024 12:47	11101	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 12:47	52202	DEVO_T2	0	1	1	0	0	0	-0.8	-0.79	0	0	0	0	0	0
9/1/2024 12:47	11102	EGYP_T1	1	3	2	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
9/1/2024 12:47	52204	DEVO_T2	6	6	0	0.97	0.87	-0.1	0	0	0	0	0	0	0	0
9/1/2024 12:49	59301	MCAL_T1	0	1	1	0	0.5	0.5	-1.46	-1.44	1	1	0	600	600	0
9/1/2024 12:49	25501	MADI_T1	3	5	2	1.03	0.7	-0.33	0	0	0	0	0	0	0	0
9/1/2024 12:49	25503	MADI_T1	0	0	0	0	0	0	-0.63	-0.59	0	0	0	0	0	0
9/1/2024 12:49	63403	HONY_T2	1	1	0	0.3	0	-0.3	-0.8	-0.77	1	1	0	600	600	0
9/1/2024 12:50	52404	GRPA_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 12:50	59301	MCAL_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/1/2024 12:50	43202	MVIL_T2	0	0	0	0	0	0	-0.48	-0.52	0	0	0	0	0	0
9/1/2024 12:50	52401	GRPA_T2	4	1	-3	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
9/1/2024 12:50	52403	GRPA_T2	1	3	2	0.1	0.1	0	-1.27	-1.29	0	0	0	0	0	0
9/1/2024 12:50	52402	GRPA_T2	8	3	-5	0.34	0.35	0.01	0	0	0	0	0	0	0	0
9/1/2024 12:51	43202	MVIL_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
9/1/2024 12:51	65604	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 12:51	59301	MCAL_T1	0	1	1	0	0.5	0.5	-2.91	-2.87	2	2	0	1200	1200	0
9/1/2024 12:51	65603	QVIL_T2	0	1	1	0	0	0	-0.55	-0.51	0	0	0	0	0	0
9/1/2024 12:52	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/1/2024 12:52	41902	REED_T1	9	1	-8	0.53	0.1	-0.43	0.39	0.42	1	1	0	900	900	0
9/1/2024 12:53	52501	PROG_T1	0	1	1	0	0.2	0.2	-1.15	-1.14	1	1	0	300	300	0
9/1/2024 12:53	67103	SPRI_T1	0	0	0	0	0	0	-0.76	-0.75	0	0	0	0	0	0
9/1/2024 12:53	66703	STRA_T1	0	2	2	0	0	0	-0.35	-0.23	0	0	0	0	0	0
9/1/2024 12:55	52002	LING_T2	0	0	0	0	0	0	-0.18	-0.09	0	0	0	0	0	0
9/1/2024 12:55	52004	LING_T2	2	2	0	4	4.45	0.45	0	0	0	0	0	0	0	0
9/1/2024 12:56	66703	STRA_T1	0	2	2	0	0	0	-0.35	-0.23	0	0	0	0	0	0
9/1/2024 12:56	57401	SPAN_T1	3	5	2	3.4	0.6	-2.8	-0.65	-0.59	1	1	0	600	600	0
9/1/2024 12:56	45901	AUBU_T1	12	0	-12	0.18	0	-0.18	0	0	0	0	0	0	0	0
9/1/2024 12:56	45902	AUBU_T1	12	4	-8	0.18	0.5	0.32	-0.43	-0.45	0	0	0	0	0	0
9/1/2024 12:57	44801	EDAN_T2	1	5	4	1.1	0.9	-0.2	-1.27	-1.29	0	0	0	0	0	0
9/1/2024 12:57	57403	SPAN_T1	3	5	2	3.4	0.6	-2.8	-0.65	-0.59	1	1	0	600	600	0
9/1/2024 12:57	52003	LING_T1	2	3	1	0.25	0	-0.25	0	0	0	0	0	0	0	0
9/1/2024 12:57	21501	CEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/1/2024 12:57	52001	LING_T1	0	0	0	0	0	0	-0.5	-0.46	0	0	0	0	0	0
9/1/2024 12:57	48302	ORWI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/1/2024 12:57	67804	WLAN_T1	10	10	0	1.16	0.89	-0.27	0	0	0	0	0	0	0	0
9/1/2024 12:57	67801	WLAN_T1	5	2	-3	0.26	0.3	0.04	-0.81	-0.87	0	0	0	0	0	0
9/1/2024 12:58	61701	ELIZ_T1	1	2	1	0.5	0.5	0	1.81	1.83	0	0	0	0	0	0
9/1/2024 12:59	11604	CEAL_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 12:59	11601	CEAL_T1	1	0	-1	0.1	0	-0.1	0	0	1	1	0	1200	1200	0
9/1/2024 12:59	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
9/1/2024 13:00	54506	ENOL_T2	1	1	0	1.5	0.8	-0.7	0	0	0	0	0	0	0	0
9/1/2024 13:00	54503	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/1/2024 13:00	54505	ENOL_T2	0	0	0	0	0	0	-0.63	-0.62	1	1	0	600	600	0
9/1/2024 13:00	44801	EDAN_T2	2	6	4	0.95	0.95	0	-1.27	-1.29	0	0	0	0	0	0
9/1/2024 13:01	53501	EVIL_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	1	1	0	600	600	0
9/1/2024 13:02	46101	MACI_T2	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
9/1/2024 13:03	26401	INOR_T1	4	2	-2	1.35	2.4	1.05	0	0	0	0	0	0	0	0
9/1/2024 13:03	26402	INOR_T1	0	0	0	0	0	0	-1.53	-1.45	1	1	0	600	600	0
9/1/2024 13:04	53901	HALI_T2	1	1	0	1.8	0	-1.8	-0.66	-0.68	0	0	0	0	0	0
9/1/2024 13:04	53902	HALI_T2	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0	0
9/1/2024 13:05	53902	HALI_T2	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0	0
9/1/2024 13:05	53901	HALI_T2	1	1	0	1.8	0	-1.8	-0.66	-0.68	0	0	0	0	0	0
9/1/2024 13:07	57401	SPAN_T1	5	6	1	1.18	2	0.82	-0.59	-0.59	1	1	0	600	600	0
9/1/2024 13:07	65003	NEFF_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/1/2024 13:07	53901	HALI_T2	1	1	0	1.8	0	-1.8	-0.68	-0.66	0	0	0	0	0	0
9/1/2024 13:07	65005	NEFF_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/1/2024 13:07	53902	HALI_T2	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0	0
9/1/2024 13:07	55101	WERT_T1	0	1	1	0	0	0	-1.08	-1.03	2	2	0	1500	1500	0
9/1/2024 13:07	65004	NEFF_T2	0	1	1	0	0.3	0.3	-0.45	-0.51	1	1	0	600	600	0
9/1/2024 13:07	66703	STRA_T1	0	2	2	0	0	0	-0.23	-0.12	0	0	0	0	0	0
9/1/2024 13:08	53901	HALI_T2	1	1	0	1.8	0	-1.8	-0.68	-0.66	0	0	0	0	0	0
9/1/2024 13:08	53902	HALI_T2	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0	0
9/1/2024 13:08	61701	ELIZ_T1	2	1	-1	0.25	0.5	0.25	1.83	1.74	0	0	0	0	0	0
9/1/2024 13:08	64802	MONE_T2	0	1	1	0	0.3	0.3	-0.24	-0.26	0	0	0	0	0	0
9/1/2024 13:09	40101	HUNT_T2	63	57	-6	0.45	0.47	0.02	0	0	0	0	0	0	0	0
9/1/2024 13:10	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 13:10	20401	ASHF_T2	2	6	4	0.85	1.15	0.3	0	0	0	0	0	0	0	0
9/1/2024 13:10	20402	ASHF_T2	3	4	1	0.27	0.4	0.13	0	0	0	0	0	0	0	0
9/1/2024 13:10	20403	ASHF_T2	0	1	1	0	0	0	0.8	0.8	0	0	0	0	0	0
9/1/2024 13:11	55002	NEWP_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
9/1/2024 13:11	55001	NEWP_T1	1	6	5	4.1	2.8	-1.3	-0.34	-0.38	1	1	0	600	600	0
9/1/2024 13:12	51603	DUKE_T1	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
9/1/2024 13:12	20401	ASHF_T2	2	6	4	0.85	1.15	0.3	0	0	0	0	0	0	0	0
9/1/2024 13:12	54601	SUMM_T2	0	0	0	0	0	0	-1.23	-1.21	2	2	0	2100	2100	0
9/1/2024 13:12	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 13:12	20402	ASHF_T2	3	4	1	0.27	0.4	0.13	0	0	0	0	0	0	0	0
9/1/2024 13:12	20403	ASHF_T2	0	1	1	0	0	0	0.8	0.8	0	0	0	0	0	0
9/1/2024 13:13	16102	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/1/2024 13:13	16101	BING_T2	0	1	1	0	0	0	0.89	0.92	0	0	0	0	0	0
9/1/2024 13:13	47401	PENS_T1	2	3	1	0.25	0.4	0.15	1.08	-0.05	0	0	0	0	0	0
9/1/2024 13:13	57403	SPAN_T1	5	6	1	1.18	2	0.82	-0.59	-0.59	1	1	0	600	600	0
9/1/2024 13:13	14702	TREX_T2	0	0	0	0	0	0	0.91	1	0	0	0	0	0	0
9/1/2024 13:13	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 13:13	47403	PENS_T1	1	1	0	1.8	1.2	-0.6	0	0	0	0	0	0	0	0
9/1/2024 13:15	61701	ELIZ_T1	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
9/1/2024 13:15	61703	ELIZ_T1	0	0	0	0	0	0	-2.36	-2.37	2	2	0	2100	2100	0
9/1/2024 13:15	14702	TREX_T2	0	0	0	0	0	0	0.91	1	0	0	0	0	0	0
9/1/2024 13:16	40201	BEGA_T2	9	7	-2	1.12	1.3	0.18	0	0	0	0	0	0	0	0
9/1/2024 13:16	20601	GRWO_T2	81	108	27	0.59	0.61	0.02	0.86	0.88	0	0	0	0	0	0
9/1/2024 13:16	61701	ELIZ_T1	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
9/1/2024 13:16	43101	SMIL_T2	29	42	13	1.09	0.94	-0.15	-0.42	-0.41	0	0	0	0	0	0
9/1/2024 13:16	43108	SMIL_T2	0	0	0	0	0	0	-0.89	-0.86	1	1	0	1200	1200	0
9/1/2024 13:16	61703	ELIZ_T1	0	0	0	0	0	0	-4.73	-4.74	4	4	0	4200	4200	0
9/1/2024 13:18	22602	KIMB_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
9/1/2024 13:18	43101	SMIL_T2	29	42	13	1.09	0.94	-0.15	0	0	0	0	0	0	0	0
9/1/2024 13:18	61701	ELIZ_T1	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
9/1/2024 13:18	61703	ELIZ_T1	0	0	0	0	0	0	-2.36	-2.37	2	2	0	2100	2100	0
9/1/2024 13:18	22601	KIMB_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/1/2024 13:18	43108	SMIL_T2	0	0	0	0	0	0	-0.89	-0.86	1	1	0	1200	1200	0
9/1/2024 13:19	43101	SMIL_T2	29	42	13	1.09	0.94	-0.15	-0.42	-0.41	0	0	0	0	0	0
9/1/2024 13:20	22602	KIMB_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
9/1/2024 13:20	52402	GRPA_T2	2	15	13	0.35	0.4	0.05	0	0	0	0	0	0	0	0
9/1/2024 13:20	65205	PRIN_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
9/1/2024 13:20	52403	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/1/2024 13:20	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
9/1/2024 13:20	22601	KIMB_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/1/2024 13:20	52404	GRPA_T2	0	0	0	0	0	0	-0.48	-0.37	0	0	0	0	0	0
9/1/2024 13:20	52401	GRPA_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/1/2024 13:22	44202	POIN_T2	0	1	1	0	0	-0.57	-0.58	1	1	0	0	1200	1200	0
9/1/2024 13:22	44203	POIN_T2	7	19	12	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
9/1/2024 13:23	56501	ROCK_T2	1	1	0	0.6	0.2	-0.4	-1.8	-1.78	0	0	0	0	0	0
9/1/2024 13:23	56504	ROCK_T2	4	3	-1	0.83	0.2	-0.63	0	0	0	0	0	0	0	0
9/1/2024 13:24	44203	POIN_T2	7	19	12	0.36	0.33	-0.03	0.49	0.5	1	1	0	900	900	0
9/1/2024 13:24	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 13:25	56504	ROCK_T2	4	3	-1	0.83	0.2	-0.63	-0.49	-0.46	0	0	0	0	0	0
9/1/2024 13:25	47401	PENS_T1	2	3	1	0.3	0.4	0.1	-0.09	2.21	0	0	0	0	0	0
9/1/2024 13:25	56501	ROCK_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
9/1/2024 13:25	47403	PENS_T1	1	2	1	0.4	1.5	1.1	0	0	0	0	0	0	0	0
9/1/2024 13:25	47402	PENS_T1	2	0	-2	1.1	0	-1.1	0	0	0	0	0	0	0	0
9/1/2024 13:25	13704	SCHN_T2	0	2	2	0	0	0	0.3	0.31	0	0	0	0	0	0
9/1/2024 13:26	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 13:26	66703	STRA_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/1/2024 13:26	66701	STRA_T1	0	0	0	0	0	0	-0.72	-0.68	1	1	0	600	600	0
9/1/2024 13:27	56501	ROCK_T2	1	1	0	0.6	0.2	-0.4	-1.8	-1.78	0	0	0	0	0	0
9/1/2024 13:27	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 13:27	56504	ROCK_T2	4	3	-1	0.83	0.2	-0.63	0	0	0	0	0	0	0	0
9/1/2024 13:27	40201	BEGA_T2	9	7	-2	1.12	1.3	0.18	0	0	0	0	0	0	0	0
9/1/2024 13:28	25603	ARRO_T1	0	0	0	0	0	0	0.25	0.18	0	0	0	0	0	0
9/1/2024 13:32	43102	SMIL_T2	0	0	0	0	0	0	-0.43	-0.42	1	1	0	600	600	0
9/1/2024 13:32	43101	SMIL_T2	40	43	3	1.15	0.83	-0.32	0	0	0	0	0	0	0	0
9/1/2024 13:32	26803	JAFR_T1	0	0	0	0	0	0	-0.05	-0.05	1	1	0	900	900	0
9/1/2024 13:34	12701	MACU_T1	0	1	1	0	0	0	-0.91	-0.88	1	1	0	1200	1200	0
9/1/2024 13:35	12701	MACU_T1	0	1	1	0	0	0	-0.91	-0.88	1	1	0	1200	1200	0
9/1/2024 13:36	59301	MCAL_T1	0	6	6	0	0.3	0.3	-1.38	-1.4	1	1	0	600	600	0
9/1/2024 13:37	43202	MVIL_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
9/1/2024 13:37	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 13:39	14401	SSLA_T1	0	8	8	0	0.64	0.64	0	0	0	0	0	0	0	0
9/1/2024 13:39	14403	SSLA_T1	1	1	0	0.3	0	-0.3	0.08	0.15	2	2	0	1200	1200	0
9/1/2024 13:40	14401	SSLA_T1	0	8	8	0	0.64	0.64	0	0	0	0	0	0	0	0
9/1/2024 13:40	14403	SSLA_T1	1	1	0	0.3	0	-0.3	0.08	0.15	2	2	0	1200	1200	0
9/1/2024 13:41	67605	WARW_T1	1	2	1	0.5	1.05	0.55	-0.93	-0.91	0	0	0	0	0	0
9/1/2024 13:41	56504	ROCK_T2	1	7	6	0.2	0.93	0.73	-0.46	-0.43	0	0	0	0	0	0
9/1/2024 13:41	56501	ROCK_T2	2	1	-1	5	0	-5	0	0	0	0	0	0	0	0
9/1/2024 13:42	42701	AUGU_T1	34	42	8	0.57	0.47	-0.1	0	0	2	2	0	1800	1800	0
9/1/2024 13:43	67605	WARW_T1	1	2	1	0.5	1.05	0.55	-2.8	-2.73	0	0	0	0	0	0
9/1/2024 13:43	11205	ELHE_T1	4	4	0	0.35	0.3	-0.05	-0.24	-1.47	1	1	0	1200	1200	0
9/1/2024 13:44	14704	TREX_T1	0	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0
9/1/2024 13:44	61504	EPET_T2	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/1/2024 13:44	14705	TREX_T1	0	1	1	0	0	0	0.38	0.38	0	0	0	0	0	0
9/1/2024 13:44	61501	EPET_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
9/1/2024 13:44	14702	TREX_T2	0	0	0	0	0	0	1.02	1.08	0	0	0	0	0	0
9/1/2024 13:45	45602	WOOL_T1	3	26	23	0.4	0.48	0.08	0.54	-0.37	0	1	1	0	900	900
9/1/2024 13:45	67605	WARW_T1	2	2	0	0.9	0.75	-0.15	-0.93	-0.91	0	0	0	0	0	0
9/1/2024 13:47	26401	INOR_T1	3	3	0	1.77	2.5	0.73	0	0	0	0	0	0	0	0
9/1/2024 13:47	46501	LOHA_T1	6	8	2	1.22	0.87	-0.35	0	0	0	0	0	0	0	0
9/1/2024 13:47	26402	INOR_T1	0	0	0	0	0	0	-1.47	-1.44	1	1	0	600	600	0
9/1/2024 13:47	46506	LOHA_T1	3	3	0	3.1	2.97	-0.13	-0.83	-0.76	1	1	0	900	900	0
9/1/2024 13:49	16005	DORN_T1	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
9/1/2024 13:51	15604	NSTR_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
9/1/2024 13:51	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 13:51	52402	GRPA_T2	15	27	12	0.63	0.79	0.16	0	0	0	0	0	0	0	0
9/1/2024 13:51	52403	GRPA_T2	0	1	1	0	0	0	-0.63	-0.62	0	0	0	0	0	0
9/1/2024 13:51	44202	POIN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/1/2024 13:51	44203	POIN_T2	14	21	7	0.33	0.5	0.17	0.47	0.44	1	1	0	900	900	0
9/1/2024 13:51	40602	PIGR_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
9/1/2024 13:51	52401	GRPA_T2	3	38	35	0.37	0.74	0.37	0	0	0	0	0	0	0	0
9/1/2024 13:51	40603	PIGR_T1	4	4	0	0.45	0	-0.45	0	0	0	0	0	0	0	0
9/1/2024 13:52	52402	GRPA_T2	15	27	12	0.63	0.79	0.16	0	0	0	0	0	0	0	0
9/1/2024 13:52	54001	SDLE_T1	62	51	-11	0.28	0.28	0	0	0	0	0	0	0	0	0
9/1/2024 13:52	52401	GRPA_T2	3	38	35	0.37	0.74	0.37	0	0	0	0	0	0	0	0
9/1/2024 13:52	52403	GRPA_T2	0	1	1	0	0	0	-0.62	-0.59	0	0	0	0	0	0
9/1/2024 13:53	53902	HALI_T2	1	1	0	3.6	3.7	0.1	-0.63	-0.63	0	0	0	0	0	0
9/1/2024 13:54	54001	SDLE_T1	62	51	-11	0.28	0.28	0	0	0	0	0	0	0	0	0
9/1/2024 13:56	16302	ALPA_T2	0	0	0	0	0	0	-0.92	-0.72	0	0	0	0	0	0
9/1/2024 13:57	52004	LING_T2	2	2	0	4	3.9	-0.1	0	0	0	0	0	0	0	0
9/1/2024 13:57	52002	LING_T2	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
9/1/2024 13:58	40201	BEGA_T2	4	8	4	1.4	1.24	-0.16	0	0	0	0	0	0	0	0
9/1/2024 13:59	29402	BELT_T1	78	83	5	0.73	0.75	0.02	0	0	0	0	0	0	0	0
9/1/2024 13:59	61501	EPET_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
9/1/2024 13:59	16302	ALPA_T2	0	0	0	0	0	0	-0.31	-0.24	0	0	0	0	0	0
9/1/2024 14:00	45602	WOOL_T1	26	31	5	0.46	0.49	0.03	-0.37	-0.33	1	1	0	900	900	0
9/1/2024 14:00	61506	EPET_T2	0	0	0	0	0	0	-0.61	-0.57	1	1	0	900	900	0
9/1/2024 14:00	61501	EPET_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
9/1/2024 14:00	53502	EVIL_T2	0	0	0	0	0	0	-0.24	-0.28	2	2	0	1200	1200	0
9/1/2024 14:01	40101	HUNT_T2	113	144	31	0.41	0.51	0.1	0	0	0	0	0	0	0	0
9/1/2024 14:01	10801	CHHI_T1	14	34	20	1.09	0.79	-0.3	-1.29	-1.29	3	3	0	2100	2100	0
9/1/2024 14:02	61501	EPET_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
9/1/2024 14:02	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
9/1/2024 14:03	47001	HUGH_T2	4	3	-1	4.98	5.97	0.99	-1.04	-1	1	1	0	900	900	0
9/1/2024 14:04	60504	NMAN_T2	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
9/1/2024 14:04	47802	MOCA_T2	0	0	0	0	0	0	-0.72	-0.68	0	0	0	0	0	0
9/1/2024 14:04	60502	NMAN_T2	2	41	39	0.1	0.43	0.33	-0.65	-0.86	0	0	0	0	0	0
9/1/2024 14:04	65804	RTWN_T1	0	0	0	0	0	0	0.83	0.83	1	1	0	600	600	0
9/1/2024 14:05	47001	HUGH_T2	4	3	-1	4.98	5.97	0.99	-1.04	-1	1	1	0	900	900	0
9/1/2024 14:07	44203	POIN_T2	20	16	-4	0.76	0.29	-0.47	0.44	0.39	1	1	0	900	900	0
9/1/2024 14:07	60504	NMAN_T2	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
9/1/2024 14:07	60502	NMAN_T2	2	41	39	0.1	0.43	0.33	0	0	0	0	0	0	0	0
9/1/2024 14:12	59101	WALK_T2	3	3	0	1.23	2.4	1.17	0.31	0.32	0	0	0	0	0	0
9/1/2024 14:13	20403	ASHF_T2	1	0	-1	0.3	0	-0.3	-0.15	-0.18	0	0	0	0	0	0
9/1/2024 14:13	20401	ASHF_T2	8	9	1	1.2	0.43	-0.77	0	0	0	0	0	0	0	0
9/1/2024 14:13	11903	ETEX_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 14:14	10805	CHHI_T2	1	1	0	8.7	8.8	0.1	-1.04	-0.97	1	1	0	600	600	0
9/1/2024 14:15	10805	CHHI_T2	1	2	1	8.8	8.7	-0.1	-1.04	-0.97	1	1	0	600	600	0
9/1/2024 14:15	40201	BEGA_T2	8	8	0	1.09	1.34	0.25	0	0	0	0	0	0	0	0
9/1/2024 14:16	16102	BING_T2	1	5	4	0.2	0.28	0.08	0	0	0	0	0	0	0	0
9/1/2024 14:16	16103	BING_T2	0	0	0	0	0	0	-1.35	-1.34	2	2	0	1500	1500	0
9/1/2024 14:19	12701	MACU_T1	0	0	0	0	0	0	-0.84	-0.86	1	1	0	1200	1200	0
9/1/2024 14:19	43201	MVIL_T2	7	7	0	0.56	0.42	-0.14	-0.12	-0.13	0	0	0	0	0	0
9/1/2024 14:20	28805	LAKE_T1	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
9/1/2024 14:21	12701	MACU_T1	0	0	0	0	0	0	-0.86	-0.82	1	1	0	1200	1200	0
9/1/2024 14:22	16203	POFA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/1/2024 14:22	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 14:23	13904	SEID_T1	13	15	2	0.47	0.27	-0.2	0	0	0	0	0	0	0	0
9/1/2024 14:23	13903	SEID_T1	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
9/1/2024 14:26	29402	BELT_T1	76	58	-18	0.72	0.61	-0.11	0	0	0	0	0	0	0	0
9/1/2024 14:26	61002	DONV_T2	0	0	0	0	0	0	-0.67	-0.64	2	2	0	1200	1200	0
9/1/2024 14:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
9/1/2024 14:27	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 14:27	65401	MARI_T1	12	17	5	1.68	1.79	0.11	0	0	0	0	0	0	0	0
9/1/2024 14:27	46004	BERW_T2	1	3	2	1	0	-1	-0.01	0.09	0	0	0	0	0	0
9/1/2024 14:27	51904	COPA_T1	1	1	0	1	0.8	-0.2	-1.23	-1.18	2	2	0	1200	1200	0
9/1/2024 14:27	60902	DONG_T2	2	0	-2	0.65	0	-0.65	0.77	0.72	0	0	0	0	0	0
9/1/2024 14:28	51906	COPA_T1	0	0	0	0	0	0	-1.17	-1.18	2	2	0	1500	1500	0
9/1/2024 14:28	10701	CATA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 14:28	10703	CATA_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
9/1/2024 14:28	46002	BERW_T2	0	0	0	0	0	0	-1.83	-1.8	2	2	0	1800	1800	0
9/1/2024 14:28	16302	ALPA_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
9/1/2024 14:28	41501	FAIR_T2	0	0	0	0	0	0	-1.88	-1.8	2	2	0	1200	1200	0
9/1/2024 14:28	61002	DONV_T2	0	0	0	0	0	0	-0.67	-0.64	2	2	0	1200	1200	0
9/1/2024 14:28	10702	CATA_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
9/1/2024 14:28	51902	COPA_T1	0	0	0	0	0	0	-4.76	-4.82	2	2	0	2400	2400	0
9/1/2024 14:28	11302	EMMA_T1	0	0	0	0	0	0	-0.64	-0.55	2	2	0	1200	1200	0
9/1/2024 14:28	51904	COPA_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
9/1/2024 14:28	46004	BERW_T2	1	3	2	1	0	-1	0	0	0	0	0	0	0	0
9/1/2024 14:28	12205	FOGE_T1	0	0	0	0	0	0	1.8	1.85	0	0	0	0	0	0
9/1/2024 14:28	10705	CATA_T2	1	0	-1	0.8	0	-0.8	-2.91	-2.8	2	2	0	1800	1800	0
9/1/2024 14:28	11507	FREE_T2	1	1	0	1.2	0.1	-1.1	-0.18	-0.17	0	0	0	0	0	0
9/1/2024 14:28	11001	EGRE_T1	0	0	0	0	0	0	-0.48	-0.47	1	1	0	1200	1200	0
9/1/2024 14:28	41502	FAIR_T2	0	0	0	0	0	0	-1.4	-1.38	1	1	0	900	900	0
9/1/2024 14:29	14201	EALL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/1/2024 14:29	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
9/1/2024 14:29	14203	EALL_T1	0	0	0	0	0	0	0.25	0.36	2	2	0	2400	2400	0
9/1/2024 14:29	10703	CATA_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
9/1/2024 14:29	62605	ENGL_T1	0	0	0	0	0	0	-1.33	-1.33	0	0	0	0	0	0
9/1/2024 14:29	51906	COPA_T1	0	0	0	0	0	0	-2.33	-2.35	4	4	0	3000	3000	0
9/1/2024 14:29	46004	BERW_T2	1	3	2	1	0	-1	0	0	0	0	0	0	0	0
9/1/2024 14:29	51904	COPA_T1	1	1	0	1	0.8	-0.2	-1.23	-1.18	2	2	0	1200	1200	0
9/1/2024 14:29	62607	ENGL_T1	0	1	1	0	0	0	-0.36	-0.34	1	1	0	300	300	0
9/1/2024 14:29	46002	BERW_T2	0	0	0	0	0	0	-0.91	-0.9	1	1	0	900	900	0
9/1/2024 14:29	10702	CATA_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
9/1/2024 14:29	10701	CATA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 14:29	63804	HEMP_T1	2	2	0	6	5.35	-0.65	0	0	0	0	0	0	0	0
9/1/2024 14:29	29402	BELT_T1	76	58	-18	0.72	0.61	-0.11	0	0	0	0	0	0	0	0
9/1/2024 14:29	10705	CATA_T2	1	0	-1	0.8	0	-0.8	-1.45	-1.4	1	1	0	900	900	0
9/1/2024 14:29	42701	AUGU_T1	58	63	5	0.77	0.67	-0.1	0	0	4	4	0	3600	3600	0
9/1/2024 14:29	61303	EARL_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/1/2024 14:29	61302	EARL_T1	0	0	0	0	0	0	0.15	0.26	2	2	0	1800	1800	0
9/1/2024 14:29	62604	ENGL_T1	2	2	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
9/1/2024 14:29	63802	HEMP_T1	0	0	0	0	0	0	0.7	0.69	0	0	0	0	0	0
9/1/2024 14:30	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 14:30	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
9/1/2024 14:30	65702	RVIL_T2	0	0	0	0	0	0	-1.08	-1.06	1	1	0	600	600	0
9/1/2024 14:30	52204	DEVO_T2	6	8	2	0.93	0.82	-0.11	0	0	0	0	0	0	0	0
9/1/2024 14:30	51904	COPA_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
9/1/2024 14:30	62604	ENGL_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
9/1/2024 14:30	63804	HEMP_T1	2	2	0	5.35	5.85	0.5	-2.61	-2.52	0	0	0	0	0	0
9/1/2024 14:30	14201	EALL_T1	0	0	0	0	0	0	0.61	0.65	0	0	0	0	0	0
9/1/2024 14:30	62607	ENGL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 14:30	10704	CATA_T2	0	0	0	0	0	0	1.36	1.32	1	1	0	1200	1200	0
9/1/2024 14:30	61303	EARL_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/1/2024 14:30	62606	ENGL_T1	0	0	0	0	0	0	-1.7	-1.7	2	2	0	1500	1500	0
9/1/2024 14:30	10701	CATA_T2	0	2	2	0	0.25	0.25	-1.52	-1.51	1	1	0	1200	1200	0
9/1/2024 14:30	29402	BELT_T1	55	46	-9	0.61	0.59	-0.02	0	0	0	0	0	0	0	0
9/1/2024 14:30	14204	EALL_T2	1	0	-1	0.2	0	-0.2	0.32	0.36	0	0	0	0	0	0
9/1/2024 14:30	51906	COPA_T1	0	0	0	0	0	0	-2.33	-2.35	4	4	0	3000	3000	0
9/1/2024 14:30	10705	CATA_T2	0	0	0	0	0	0	-1.45	-1.4	1	1	0	900	900	0
9/1/2024 14:30	63801	HEMP_T1	0	0	0	0	0	0	-0.43	-0.41	1	1	0	900	900	0
9/1/2024 14:30	11302	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 14:30	40201	BEGA_T2	5	20	15	1.4	1.04	-0.36	0	0	0	0	0	0	0	0
9/1/2024 14:30	11205	ELHE_T1	2	6	4	0.55	0.35	-0.2	-1.4	-1.4	1	1	0	1200	1200	0
9/1/2024 14:30	10702	CATA_T2	0	0	0	0	0	0	-0.79	-0.79	0	0	0	0	0	0
9/1/2024 14:30	17401	FOHI_T1	1	1	0	0.4	0.6	0.2	-1.55	-1.59	0	0	0	0	0	0
9/1/2024 14:30	61301	EARL_T1	0	0	0	0	0	0	-0.96	-0.95	2	2	0	1800	1800	0
9/1/2024 14:30	22101	EDEL_T2	0	0	0	0	0	0	2.41	2.71	2	2	0	2400	2400	0
9/1/2024 14:31	11201	ELHE_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
9/1/2024 14:31	17401	FOHI_T1	1	1	0	0.4	0.6	0.2	-3.1	-3.17	0	0	0	0	0	0
9/1/2024 14:31	51904	COPA_T1	1	1	0	0.7	1	0.3	-1.23	-1.18	2	2	0	1200	1200	0
9/1/2024 14:31	43108	SMIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 14:31	67901	WNHO_T2	2	2	0	0.2	1.15	0.95	0	0	0	0	0	0	0	0
9/1/2024 14:31	11205	ELHE_T1	2	6	4	0.55	0.35	-0.2	0	0	0	0	0	0	0	0
9/1/2024 14:31	58702	ROSE_T2	0	0	0	0	0	0	-1.81	-1.8	0	0	0	0	0	0
9/1/2024 14:31	14201	EALL_T1	0	0	0	0	0	0	0.61	0.65	0	0	0	0	0	0
9/1/2024 14:31	63804	HEMP_T1	2	2	0	5.35	5.85	0.5	0	0	0	0	0	0	0	0
9/1/2024 14:31	11202	ELHE_T2	0	0	0	0	0	0	0.34	0.37	1	1	0	1200	1200	0
9/1/2024 14:31	10701	CATA_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/1/2024 14:31	63802	HEMP_T1	0	0	0	0	0	0	1.4	1.39	0	0	0	0	0	0
9/1/2024 14:31	51906	COPA_T1	0	0	0	0	0	0	-1.17	-1.18	2	2	0	1500	1500	0
9/1/2024 14:31	10705	CATA_T2	0	0	0	0	0	0	-10.17	-9.8	7	7	0	6300	6300	0
9/1/2024 14:31	67902	WNHO_T2	0	0	0	0	0	0	-0.39	-0.36	2	2	0	2100	2100	0
9/1/2024 14:31	43104	SMIL_T2	0	0	0	0	0	0	-0.93	-1.14	3	3	0	900	900	0
9/1/2024 14:31	10702	CATA_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
9/1/2024 14:31	61303	EARL_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/1/2024 14:31	58706	ROSE_T2	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
9/1/2024 14:31	43101	SMIL_T2	44	78	34	0.93	1.2	0.27	0	0	0	0	0	0	0	0
9/1/2024 14:31	51901	COPA_T1	0	0	0	0	0	0	-0.71	-0.69	1	1	0	1200	1200	0
9/1/2024 14:31	61301	EARL_T1	0	0	0	0	0	0	-0.96	-0.95	2	2	0	1800	1800	0
9/1/2024 14:31	11203	ELHE_T1	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
9/1/2024 14:32	46501	LOHA_T1	5	11	6	1.18	0.85	-0.33	0	0	0	0	0	0	0	0
9/1/2024 14:32	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
9/1/2024 14:32	40603	PIGR_T1	7	21	14	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
9/1/2024 14:32	41501	FAIR_T2	0	0	0	0	0	0	-0.94	-0.9	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/1/2024 14:32	63802	HEMP_T1	0	0	0	0	0	0	0.7	0.69	0	0	0	0	0	0
9/1/2024 14:32	63804	HEMP_T1	2	2	0	5.35	5.85	0.5	0	0	0	0	0	0	0	0
9/1/2024 14:32	51906	COPA_T1	0	0	0	0	0	0	-1.17	-1.18	2	2	0	1500	1500	0
9/1/2024 14:32	46506	LOHA_T1	3	3	0	2.9	2.4	-0.5	-0.8	-0.78	1	1	0	900	900	0
9/1/2024 14:32	62607	ENGL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 14:32	51904	COPA_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
9/1/2024 14:32	17401	FOHI_T1	1	1	0	0.4	0.6	0.2	-1.55	-1.59	0	0	0	0	0	0
9/1/2024 14:32	10705	CATA_T2	0	0	0	0	0	0	-7.26	-7	5	5	0	4500	4500	0
9/1/2024 14:32	46504	LOHA_T1	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
9/1/2024 14:32	40601	PIGR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 14:32	12205	FOGE_T1	0	0	0	0	0	0	1.8	1.85	0	0	0	0	0	0
9/1/2024 14:32	11302	EMMA_T1	0	0	0	0	0	0	-0.32	-0.28	1	1	0	600	600	0
9/1/2024 14:32	46502	LOHA_T1	2	2	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/1/2024 14:32	40602	PIGR_T1	1	7	6	1.2	1.5	0.3	0	0	0	0	0	0	0	0
9/1/2024 14:32	10701	CATA_T2	0	2	2	0	0.25	0.25	-1.52	-1.51	1	1	0	1200	1200	0
9/1/2024 14:32	62604	ENGL_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
9/1/2024 14:32	14203	EALL_T1	0	0	0	0	0	0	0.12	0.18	1	1	0	1200	1200	0
9/1/2024 14:32	62605	ENGL_T1	0	0	0	0	0	0	-2.66	-2.66	0	0	0	0	0	0
9/1/2024 14:33	10701	CATA_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/1/2024 14:33	51904	COPA_T1	1	1	0	0.7	1	0.3	-1.23	-1.18	2	2	0	1200	1200	0
9/1/2024 14:33	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
9/1/2024 14:33	43108	SMIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 14:33	46502	LOHA_T1	2	2	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/1/2024 14:33	51905	COPA_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
9/1/2024 14:33	52204	DEVO_T2	6	8	2	0.93	0.82	-0.11	0	0	0	0	0	0	0	0
9/1/2024 14:33	46506	LOHA_T1	3	3	0	2.9	2.4	-0.5	-0.8	-0.78	1	1	0	900	900	0
9/1/2024 14:33	46504	LOHA_T1	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
9/1/2024 14:33	11302	EMMA_T1	0	0	0	0	0	0	-0.32	-0.28	1	1	0	600	600	0
9/1/2024 14:33	63802	HEMP_T1	0	0	0	0	0	0	0.7	0.69	0	0	0	0	0	0
9/1/2024 14:33	46501	LOHA_T1	5	11	6	1.18	0.85	-0.33	0	0	0	0	0	0	0	0
9/1/2024 14:33	63804	HEMP_T1	2	2	0	5.35	5.85	0.5	0	0	0	0	0	0	0	0
9/1/2024 14:33	11804	FRAN_T1	3	10	7	0.23	0.52	0.29	1.06	1.16	0	0	0	0	0	0
9/1/2024 14:33	63803	HEMP_T1	0	0	0	0	0	0	2.02	1.98	0	0	0	0	0	0
9/1/2024 14:33	43101	SMIL_T2	44	78	34	0.93	1.2	0.27	0	0	0	0	0	0	0	0
9/1/2024 14:33	10707	CATA_T2	0	0	0	0	0	0	0.85	0.85	0	0	0	0	0	0
9/1/2024 14:33	43104	SMIL_T2	0	0	0	0	0	0	-0.31	-0.38	1	1	0	300	300	0
9/1/2024 14:33	52402	GRPA_T2	9	14	5	0.66	0.43	-0.23	0	0	0	0	0	0	0	0
9/1/2024 14:33	17401	FOHI_T1	1	1	0	0.4	0.6	0.2	-1.55	-1.59	0	0	0	0	0	0
9/1/2024 14:33	52202	DEVO_T2	0	0	0	0	0	0	-3.77	-3.73	0	0	0	0	0	0
9/1/2024 14:33	10705	CATA_T2	0	0	0	0	0	0	-1.45	-1.4	1	1	0	900	900	0
9/1/2024 14:33	52401	GRPA_T2	9	13	4	0.54	0.43	-0.11	0	0	0	0	0	0	0	0
9/1/2024 14:33	52403	GRPA_T2	2	4	2	0.4	0.1	-0.3	-0.6	-0.6	0	0	0	0	0	0
9/1/2024 14:34	10701	CATA_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/1/2024 14:34	57303	MOAL_T2	1	1	0	9	8.4	-0.6	0	0	0	0	0	0	0	0
9/1/2024 14:34	47101	MARL_T1	12	26	14	0.57	0.61	0.04	0	0	0	0	0	0	0	0
9/1/2024 14:34	52202	DEVO_T2	0	0	0	0	0	0	-1.88	-1.86	0	0	0	0	0	0
9/1/2024 14:34	64902	MILL_T2	0	0	0	0	0	0	-0.59	-0.56	1	1	0	900	900	0
9/1/2024 14:34	10705	CATA_T2	0	0	0	0	0	0	-2.91	-2.8	2	2	0	1800	1800	0
9/1/2024 14:34	63804	HEMP_T1	2	2	0	5.35	5.85	0.5	-1.31	-1.26	0	0	0	0	0	0
9/1/2024 14:34	47104	MARL_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
9/1/2024 14:34	52204	DEVO_T2	6	8	2	0.93	0.82	-0.11	0	0	0	0	0	0	0	0
9/1/2024 14:34	57304	MOAL_T2	1	0	-1	0.1	0	-0.1	-0.09	-0.91	0	1	1	0	900	900
9/1/2024 14:35	52102	MEIS_T1	1	0	-1	0.8	0	-0.8	0	0	1	1	0	450	450	0
9/1/2024 14:35	60504	NMAN_T2	2	2	0	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
9/1/2024 14:35	10707	CATA_T2	0	0	0	0	0	0	1.69	1.7	0	0	0	0	0	0
9/1/2024 14:35	47101	MARL_T1	12	26	14	0.57	0.61	0.04	-1.17	-1.05	0	0	0	0	0	0
9/1/2024 14:35	60502	NMAN_T2	8	2	-6	0.14	0.4	0.26	-0.24	-0.23	0	0	0	0	0	0
9/1/2024 14:35	63804	HEMP_T1	2	2	0	5.35	5.85	0.5	-2.61	-2.52	0	0	0	0	0	0
9/1/2024 14:35	10701	CATA_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/1/2024 14:35	10705	CATA_T2	0	0	0	0	0	0	-2.91	-2.8	2	2	0	1800	1800	0
9/1/2024 14:36	63803	HEMP_T1	0	0	0	0	0	0	2.97	2.99	0	0	0	0	0	0
9/1/2024 14:36	63804	HEMP_T1	2	2	0	5.35	5.85	0.5	-1.26	-1.18	0	0	0	0	0	0
9/1/2024 14:36	64902	MILL_T2	0	0	0	0	0	0	-0.56	-0.52	1	1	0	900	900	0
9/1/2024 14:36	53801	MBRG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/1/2024 14:36	53802	MBRG_T2	0	0	0	0	0	0	-0.64	-0.69	0	0	0	0	0	0
9/1/2024 14:36	47101	MARL_T1	12	26	14	0.57	0.61	0.04	-0.35	-0.34	0	0	0	0	0	0
9/1/2024 14:37	53801	MBRG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/1/2024 14:37	40601	PIGR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 14:37	55408	SHER_T2	2	2	0	0.75	0.65	-0.1	-0.94	-0.94	1	1	0	1200	1200	0
9/1/2024 14:37	40603	PIGR_T1	7	21	14	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
9/1/2024 14:37	41902	REED_T1	18	25	7	0.37	0.38	0.01	0.47	0.46	1	1	0	900	900	0
9/1/2024 14:37	53802	MBRG_T2	0	0	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
9/1/2024 14:37	40602	PIGR_T1	1	7	6	1.2	1.5	0.3	-1.12	-1.11	1	1	0	600	600	0
9/1/2024 14:37	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 14:37	66505	SMAN_T2	1	3	2	0.8	0.8	0	0	0	0	0	0	0	0	0
9/1/2024 14:38	61703	ELIZ_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
9/1/2024 14:38	61701	ELIZ_T1	0	1	1	0	0	0	1.49	1.47	0	0	0	0	0	0
9/1/2024 14:38	52502	PROG_T2	0	0	0	0	0	0	0.23	0.26	1	1	0	900	900	0
9/1/2024 14:38	57101	SPHI_T2	0	0	0	0	0	0	-0.77	-0.74	0	0	0	0	0	0
9/1/2024 14:38	66505	SMAN_T2	1	3	2	0.8	0.8	0	0.37	0.43	8	8	0	4600	4600	0
9/1/2024 14:38	57104	SPHI_T2	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
9/1/2024 14:39	13704	SCHN_T2	1	1	0	0.1	0	-0.1	-0.39	-0.38	0	0	0	0	0	0
9/1/2024 14:39	27604	PIRI_T1	0	0	0	0	0	0	2.25	2.22	0	0	0	0	0	0
9/1/2024 14:40	13704	SCHN_T2	1	1	0	0.1	0	-0.1	-0.39	-0.38	0	0	0	0	0	0
9/1/2024 14:40	57101	SPHI_T2	0	0	0	0	0	0	-0.77	-0.74	0	0	0	0	0	0
9/1/2024 14:40	61701	ELIZ_T1	0	1	1	0	0	0	1.49	1.47	0	0	0	0	0	0
9/1/2024 14:40	61703	ELIZ_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
9/1/2024 14:40	57104	SPHI_T2	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
9/1/2024 14:41	44301	BEAV_T2	24	7	-17	0.62	0.48	-0.14	-2.09	-2.04	2	2	0	1200	1200	0
9/1/2024 14:41	57104	SPHI_T2	0	1	1	0	1.1	1.1	-6.75	-6.67	3	3	0	2700	2700	0
9/1/2024 14:41	66505	SMAN_T2	1	3	2	0.8	0.8	0	0.37	0.43	8	8	0	4600	4600	0
9/1/2024 14:42	45601	WOOL_T1	0	0	0	0	0	0	0.06	0.07	1	1	0	1200	1200	0
9/1/2024 14:42	45602	WOOL_T1	31	21	-10	0.48	0.46	-0.02	0	0	0	0	0	0	0	0
9/1/2024 14:42	42601	TUSC_T1	0	1	1	0	0	0	0.06	0.06	2	2	0	1800	1800	0
9/1/2024 14:43	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
9/1/2024 14:43	53102	WTWN_T1	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
9/1/2024 14:43	29402	BELT_T1	55	46	-9	0.61	0.59	-0.02	0	0	0	0	0	0	0	0
9/1/2024 14:44	53102	WTWN_T1	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
9/1/2024 14:44	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
9/1/2024 14:45	55002	NEWP_T1	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
9/1/2024 14:45	55001	NEWP_T1	1	2	1	0.5	0.8	0.3	-0.69	-0.55	2	2	0	1200	1200	0
9/1/2024 14:46	60502	NMAN_T2	1	2	1	0.4	0.25	-0.15	0.23	0.22	0	0	0	0	0	0
9/1/2024 14:46	63804	HEMP_T1	2	2	0	5.9	5.75	-0.15	-1.26	-1.18	0	0	0	0	0	0
9/1/2024 14:46	40201	BEGA_T2	8	65	57	1.08	0.55	-0.53	0	0	0	0	0	0	0	0
9/1/2024 14:46	60504	NMAN_T2	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
9/1/2024 14:47	10805	CHHI_T2	2	2	0	4.45	8.7	4.25	-1.08	-1.07	1	1	0	600	600	0
9/1/2024 14:48	46502	LOHA_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
9/1/2024 14:48	42902	MIDD_T2	1	4	3	2.1	0.73	-1.37	-0.77	-0.77	0	0	0	0	0	0
9/1/2024 14:48	42903	MIDD_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
9/1/2024 14:48	46504	LOHA_T1	4	2	-2	0.43	0	-0.43	0	0	0	0	0	0	0	0
9/1/2024 14:48	46506	LOHA_T1	3	5	2	2.4	2.37	-0.03	0	0	0	0	0	0	0	0
9/1/2024 14:48	46501	LOHA_T1	10	7	-3	0.89	1.23	0.34	1.07	1.11	0	0	0	0	0	0
9/1/2024 14:49	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 14:49	41902	REED_T1	17	40	23	0.41	0.41	0	0	0	0	0	0	0	0	0
9/1/2024 14:50	46004	BERW_T2	2	6	4	0.7	0	-0.7	0	0	0	0	0	0	0	0
9/1/2024 14:50	43104	SMIL_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 14:50	43108	SMIL_T2	1	4	3	0.2	0.1	-0.1	-0.83	-0.78	1	1	0	1200	1200	0
9/1/2024 14:50	63804	HEMP_T1	2	2	0	5.9	5.75	-0.15	-1.26	-1.18	0	0	0	0	0	0
9/1/2024 14:50	43103	SMIL_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 14:50	43101	SMIL_T2	63	82	19	1.23	1.29	0.06	0	0	0	0	0	0	0	0
9/1/2024 14:50	46002	BERW_T2	0	0	0	0	0	0	-0.9	-0.86	1	1	0	900	900	0
9/1/2024 14:51	16002	DORN_T2	11	35	24	0.52	0.54	0.02	0	-0.02	1	1	0	1200	1200	0
9/1/2024 14:51	16006	DORN_T2	3	19	16	0.63	0.26	-0.37	0	0	0	0	0	0	0	0
9/1/2024 14:52	46501	LOHA_T1	10	7	-3	0.89	1.23	0.34	1.11	1.1	0	0	0	0	0	0
9/1/2024 14:52	46506	LOHA_T1	3	5	2	2.4	2.37	-0.03	0	0	0	0	0	0	0	0
9/1/2024 14:52	46502	LOHA_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
9/1/2024 14:52	46504	LOHA_T1	4	2	-2	0.43	0	-0.43	0	0	0	0	0	0	0	0
9/1/2024 14:53	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 14:53	44301	BEAV_T2	6	5	-1	0.43	0.48	0.05	-1.02	-1	1	1	0	600	600	0
9/1/2024 14:53	42902	MIDD_T2	1	4	3	2.1	0.73	-1.37	-0.26	-0.28	0	0	0	0	0	0
9/1/2024 14:53	42903	MIDD_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
9/1/2024 14:53	44203	POIN_T2	7	5	-2	1.6	0.45	-1.15	0.91	1.04	2	2	0	1800	1800	0
9/1/2024 14:54	64101	REFR_T1	10	10	0	1.21	1.2	-0.01	0.53	0.54	0	0	0	0	0	0
9/1/2024 14:55	54601	SUMM_T2	0	1	1	0	0	0	-1.8	-2.04	3	3	0	3000	3000	0
9/1/2024 14:56	44301	BEAV_T2	6	5	-1	0.43	0.48	0.05	-1.02	-1	1	1	0	600	600	0
9/1/2024 14:56	64101	REFR_T1	10	10	0	1.21	1.2	-0.01	0.53	0.54	0	0	0	0	0	0
9/1/2024 14:56	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 14:57	41903	REED_T1	0	0	0	0	0	0	0.27	0.39	2	2	0	2400	2400	0
9/1/2024 14:57	64101	REFR_T1	10	10	0	1.21	1.2	-0.01	1.06	1.09	0	0	0	0	0	0
9/1/2024 14:57	67605	WARW_T1	1	1	0	0.3	1	0.7	-1.69	-1.58	0	0	0	0	0	0
9/1/2024 14:57	41902	REED_T1	17	40	23	0.41	0.41	0	0	0	0	0	0	0	0	0
9/1/2024 14:58	64101	REFR_T1	10	10	0	1.21	1.2	-0.01	0.53	0.54	0	0	0	0	0	0
9/1/2024 14:59	64101	REFR_T1	10	10	0	1.21	1.2	-0.01	0.53	0.54	0	0	0	0	0	0
9/1/2024 14:59	29402	BELT_T1	40	67	27	0.8	0.78	-0.02	0	0	0	0	0	0	0	0
9/1/2024 14:59	61102	BERK_T5	0	0	0	0	0	0	1.24	1.21	2	2	0	600	600	0
9/1/2024 14:59	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
9/1/2024 15:00	67605	WARW_T1	1	1	0	1	0.9	-0.1	-0.84	-0.79	0	0	0	0	0	0
9/1/2024 15:01	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
9/1/2024 15:01	29402	BELT_T1	44	86	42	0.75	0.73	-0.02	0	0	0	0	0	0	0	0
9/1/2024 15:02	46502	LOHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:02	29402	BELT_T1	44	86	42	0.75	0.73	-0.02	0	0	0	0	0	0	0	0
9/1/2024 15:02	43104	SMIL_T2	0	3	3	0	0.33	0.33	-0.3	-0.39	1	1	0	300	300	0
9/1/2024 15:02	43101	SMIL_T2	78	83	5	1.31	1.23	-0.08	0	0	0	0	0	0	0	0
9/1/2024 15:02	43108	SMIL_T2	3	4	1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
9/1/2024 15:02	46501	LOHA_T1	7	5	-2	0.97	1	0.03	1.11	1.1	0	0	0	0	0	0
9/1/2024 15:02	46504	LOHA_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/1/2024 15:02	43103	SMIL_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 15:02	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
9/1/2024 15:02	46506	LOHA_T1	3	5	2	2.2	3	0.8	0	0	0	0	0	0	0	0
9/1/2024 15:03	43103	SMIL_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 15:03	43104	SMIL_T2	0	3	3	0	0.33	0.33	-0.3	-0.39	1	1	0	300	300	0
9/1/2024 15:03	43101	SMIL_T2	78	83	5	1.31	1.23	-0.08	0	0	0	0	0	0	0	0
9/1/2024 15:03	43108	SMIL_T2	3	4	1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/1/2024 15:05	43104	SMIL_T2	0	3	3	0	0.33	0.33	-0.3	-0.39	1	1	0	300	300	0
9/1/2024 15:05	43103	SMIL_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 15:05	43101	SMIL_T2	78	83	5	1.31	1.23	-0.08	0	0	0	0	0	0	0	0
9/1/2024 15:05	43108	SMIL_T2	3	4	1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
9/1/2024 15:07	66505	SMAN_T2	1	5	4	0.3	0.1	-0.2	0.22	0.27	4	4	0	2300	2300	0
9/1/2024 15:07	66503	MOJO_T2	0	0	0	0	0	0	-0.17	-0.13	1	1	0	900	900	0
9/1/2024 15:08	42601	TUSC_T1	0	1	1	0	0	0	0	0.1	2	2	0	1800	1800	0
9/1/2024 15:09	47403	PENS_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
9/1/2024 15:09	41902	REED_T1	24	42	18	0.44	0.44	0	0.45	0.52	1	1	0	900	900	0
9/1/2024 15:09	47401	PENS_T1	3	2	-1	0.67	0.55	-0.12	-0.08	-0.03	0	0	0	0	0	0
9/1/2024 15:09	49803	UNIV_T1	2	1	-1	3.5	6.1	2.6	-1.55	-1.56	0	0	0	0	0	0
9/1/2024 15:09	64101	REFR_T1	10	10	0	1.32	1.2	-0.12	0.54	0.57	0	0	0	0	0	0
9/1/2024 15:10	20402	ASHF_T2	4	10	6	0.78	0.1	-0.68	0	0	0	0	0	0	0	0
9/1/2024 15:10	20401	ASHF_T2	5	14	9	1.28	1.37	0.09	0	0	0	0	0	0	0	0
9/1/2024 15:10	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:10	20403	ASHF_T2	0	1	1	0	0	0	-0.24	-0.21	0	0	0	0	0	0
9/1/2024 15:10	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:11	47403	PENS_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
9/1/2024 15:11	47401	PENS_T1	3	2	-1	0.67	0.55	-0.12	-0.08	-0.03	0	0	0	0	0	0
9/1/2024 15:11	42701	AUGU_T1	60	68	8	0.79	0.8	0.01	0	0	0	0	0	0	0	0
9/1/2024 15:11	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:12	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:14	47403	PENS_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
9/1/2024 15:14	47401	PENS_T1	3	2	-1	0.67	0.55	-0.12	-0.04	-0.02	0	0	0	0	0	0
9/1/2024 15:15	53501	EVIL_T2	0	1	1	0	0.8	0.8	-0.01	-0.01	1	1	0	600	600	0
9/1/2024 15:16	43104	SMIL_T2	3	3	0	0.33	0	-0.33	0	0	0	0	0	0	0	0
9/1/2024 15:16	43101	SMIL_T2	82	75	-7	1.44	1.22	-0.22	0	0	0	0	0	0	0	0
9/1/2024 15:16	43108	SMIL_T2	2	5	3	0.25	0.37	0.12	-0.84	-0.82	1	1	0	1200	1200	0
9/1/2024 15:16	43103	SMIL_T2	3	3	0	0.27	0	-0.27	0	0	0	0	0	0	0	0
9/1/2024 15:17	10805	CHHI_T2	2	24	22	4.85	1.18	-3.67	-0.85	-0.8	1	1	0	600	600	0
9/1/2024 15:18	43101	SMIL_T2	82	75	-7	1.44	1.22	-0.22	0	0	0	0	0	0	0	0
9/1/2024 15:18	43104	SMIL_T2	3	3	0	0.33	0	-0.33	-0.77	-0.71	2	2	0	600	600	0
9/1/2024 15:18	43108	SMIL_T2	2	5	3	0.25	0.37	0.12	0	0	0	0	0	0	0	0
9/1/2024 15:18	43103	SMIL_T2	3	3	0	0.27	0	-0.27	0	0	0	0	0	0	0	0
9/1/2024 15:19	43101	SMIL_T2	82	75	-7	1.44	1.22	-0.22	-0.35	-0.34	0	0	0	0	0	0
9/1/2024 15:19	43104	SMIL_T2	3	3	0	0.33	0	-0.33	0	0	0	0	0	0	0	0
9/1/2024 15:19	57401	SPAN_T1	1	2	1	2.2	0	-2.2	-1.03	-0.97	1	1	0	600	600	0
9/1/2024 15:19	43103	SMIL_T2	3	3	0	0.27	0	-0.27	0	0	0	0	0	0	0	0
9/1/2024 15:19	43108	SMIL_T2	2	5	3	0.25	0.37	0.12	0	0	0	0	0	0	0	0
9/1/2024 15:20	53902	HALI_T2	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
9/1/2024 15:20	53901	HALI_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
9/1/2024 15:20	47101	MARL_T1	38	43	5	1	0.81	-0.19	-0.71	-0.7	0	0	0	0	0	0
9/1/2024 15:22	53902	HALI_T2	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
9/1/2024 15:22	53901	HALI_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
9/1/2024 15:23	42802	SELI_T1	0	0	0	0	0	0	-0.9	-0.89	1	1	0	900	900	0
9/1/2024 15:23	47101	MARL_T1	38	43	5	1	0.81	-0.19	-0.35	-0.24	0	0	0	0	0	0
9/1/2024 15:23	53901	HALI_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
9/1/2024 15:23	53902	HALI_T2	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
9/1/2024 15:24	44302	BEAV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/1/2024 15:24	44301	BEAV_T2	4	9	5	0.75	0.7	-0.05	-0.98	-1.02	1	1	0	600	600	0
9/1/2024 15:24	52002	LING_T2	1	7	6	1.3	0.35	-0.95	0.04	-0.01	0	0	0	0	0	0
9/1/2024 15:24	42802	SELI_T1	0	0	0	0	0	0	-0.9	-0.89	1	1	0	900	900	0
9/1/2024 15:24	52004	LING_T2	2	2	0	3.5	3.55	0.05	0	0	0	0	0	0	0	0
9/1/2024 15:24	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:24	53902	HALI_T2	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
9/1/2024 15:24	53901	HALI_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
9/1/2024 15:25	66505	SMAN_T2	3	5	2	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
9/1/2024 15:25	64101	REFR_T1	10	10	0	1.2	1.25	0.05	0.57	0.55	0	0	0	0	0	0
9/1/2024 15:25	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:25	42802	SELI_T1	0	0	0	0	0	0	-0.9	-0.89	1	1	0	900	900	0
9/1/2024 15:25	41902	REED_T1	32	40	8	0.4	0.43	0.03	0.52	0.51	1	1	0	900	900	0
9/1/2024 15:26	24603	VARD_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
9/1/2024 15:26	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:26	59101	WALK_T2	3	4	1	1.5	2.6	1.1	0.37	0.43	0	0	0	0	0	0
9/1/2024 15:26	42701	AUGU_T1	63	69	6	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
9/1/2024 15:26	24602	VARD_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/1/2024 15:26	42802	SELI_T1	0	0	0	0	0	0	-0.9	-0.89	1	1	0	900	900	0
9/1/2024 15:27	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:27	52002	LING_T2	1	7	6	1.3	0.35	-0.95	0.04	-0.01	0	0	0	0	0	0
9/1/2024 15:27	52004	LING_T2	2	2	0	3.5	3.55	0.05	0	0	0	0	0	0	0	0
9/1/2024 15:28	60504	NMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/1/2024 15:28	42802	SELI_T1	0	0	0	0	0	0	-0.9	-0.89	1	1	0	900	900	0
9/1/2024 15:28	64101	REFR_T1	10	10	0	1.2	1.25	0.05	1.15	1.11	0	0	0	0	0	0
9/1/2024 15:28	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:28	60502	NMAN_T2	2	3	1	0.3	0.2	-0.1	-0.19	-0.18	0	0	0	0	0	0
9/1/2024 15:29	40201	BEGA_T2	64	26	-38	0.58	0.91	0.33	0	0	0	0	0	0	0	0
9/1/2024 15:29	10705	CATA_T2	0	1	1	0	0.2	0.2	-1.31	-1.3	1	1	0	900	900	0
9/1/2024 15:29	64101	REFR_T1	10	10	0	1.2	1.25	0.05	1.15	1.11	0	0	0	0	0	0
9/1/2024 15:29	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:30	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/1/2024 15:32	46004	BERW_T2	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
9/1/2024 15:32	46002	BERW_T2	0	0	0	0	0	0	-0.78	-0.76	1	1	0	900	900	0
9/1/2024 15:34	43103	SMIL_T2	3	1	-2	1	0	-1	0	0	0	0	0	0	0	0
9/1/2024 15:34	43104	SMIL_T2	3	0	-3	0.63	0	-0.63	-0.35	-0.37	1	1	0	300	300	0
9/1/2024 15:34	43101	SMIL_T2	70	74	4	1.22	1.24	0.02	0	0	0	0	0	0	0	0
9/1/2024 15:34	43108	SMIL_T2	3	7	4	0.37	0.46	0.09	0	0	0	0	0	0	0	0
9/1/2024 15:35	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/1/2024 15:35	42902	MIDD_T2	2	6	4	1.45	1.45	0	-0.47	-0.39	0	0	0	0	0	0
9/1/2024 15:36	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/1/2024 15:36	42902	MIDD_T2	2	6	4	1.45	1.45	0	0	0	0	0	0	0	0	0
9/1/2024 15:40	41902	REED_T1	33	35	2	0.48	0.44	-0.04	0.51	0.47	1	1	0	900	900	0
9/1/2024 15:42	20401	ASHF_T2	10	16	6	1.89	0.96	-0.93	0	0	0	0	0	0	0	0
9/1/2024 15:42	20402	ASHF_T2	10	14	4	0.48	0.62	0.14	0	0	0	0	0	0	0	0
9/1/2024 15:42	20403	ASHF_T2	1	1	0	0.2	0	-0.2	-0.23	-0.22	0	0	0	0	0	0
9/1/2024 15:42	42701	AUGU_T1	68	65	-3	0.79	0.49	-0.3	0	0	2	2	0	1800	1800	0
9/1/2024 15:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:43	40502	CRES_T2	3	13	10	0.43	0.2	-0.23	-1.67	-1.64	0	0	0	0	0	0
9/1/2024 15:44	51802	EBEN_T2	5	5	0	0.48	0.6	0.12	0	0	0	0	0	0	0	0
9/1/2024 15:44	40502	CRES_T2	3	13	10	0.43	0.2	-0.23	-2.22	-2.19	0	0	0	0	0	0
9/1/2024 15:44	51804	EBEN_T2	0	0	0	0	0	0	-0.63	-0.61	1	1	0	900	900	0
9/1/2024 15:44	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:44	44301	BEAV_T2	5	13	8	0.7	0.64	-0.06	0	0	0	0	0	0	0	0
9/1/2024 15:45	40502	CRES_T2	1	13	12	0.2	0.3	0.1	-3.34	-3.29	0	0	0	0	0	0
9/1/2024 15:45	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:46	40201	BEGA_T2	22	11	-11	0.9	1.07	0.17	0	0	0	0	0	0	0	0
9/1/2024 15:46	40901	JESH_T1	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
9/1/2024 15:46	51804	EBEN_T2	0	0	0	0	0	0	-0.63	-0.61	1	1	0	900	900	0
9/1/2024 15:46	40502	CRES_T2	1	13	12	0.2	0.3	0.1	-2.78	-2.74	0	0	0	0	0	0
9/1/2024 15:46	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:46	40902	JESH_T1	0	0	0	0	0	0	-1.16	-1.22	2	2	0	1200	1200	0
9/1/2024 15:46	51802	EBEN_T2	1	5	4	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
9/1/2024 15:47	41902	REED_T1	22	44	22	0.39	0.6	0.21	0	0	0	0	0	0	0	0
9/1/2024 15:47	40502	CRES_T2	1	13	12	0.2	0.3	0.1	-1.67	-1.64	0	0	0	0	0	0
9/1/2024 15:47	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:47	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:48	55001	NEWP_T1	1	2	1	0.9	0.4	-0.5	-0.82	-0.84	1	1	0	600	600	0
9/1/2024 15:48	40901	JESH_T1	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
9/1/2024 15:48	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:48	40502	CRES_T2	1	13	12	0.2	0.3	0.1	-1.67	-1.64	0	0	0	0	0	0
9/1/2024 15:48	40902	JESH_T1	0	0	0	0	0	0	-1.16	-1.22	2	2	0	1200	1200	0
9/1/2024 15:49	52502	PROG_T2	0	0	0	0	0	0	0.35	0.37	1	1	0	900	900	0
9/1/2024 15:51	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:51	40502	CRES_T2	1	13	12	0.2	0.3	0.1	-0.55	-0.47	0	0	0	0	0	0
9/1/2024 15:54	57401	SPAN_T1	2	3	1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
9/1/2024 15:54	57403	SPAN_T1	0	2	2	0	0	0	0.58	0.59	0	0	0	0	0	0
9/1/2024 15:55	45602	WOOL_T1	50	49	-1	0.56	0.6	0.04	-0.23	-0.27	1	1	0	900	900	0
9/1/2024 15:55	57401	SPAN_T1	2	3	1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
9/1/2024 15:55	57403	SPAN_T1	0	2	2	0	0	0	0.58	0.59	0	0	0	0	0	0
9/1/2024 15:56	61102	BERK_T5	0	0	0	0	0	0	0.65	0.64	1	1	0	300	300	0
9/1/2024 15:57	40502	CRES_T2	1	13	12	0.2	0.3	0.1	-0.55	-0.47	0	0	0	0	0	0
9/1/2024 15:57	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 15:57	61102	BERK_T5	0	0	0	0	0	0	0.65	0.64	1	1	0	300	300	0
9/1/2024 15:57	59101	WALK_T2	2	8	6	1.5	0.5	-1	0.43	-0.12	0	1	1	0	600	600
9/1/2024 15:58	42701	AUGU_T1	54	70	16	0.5	0.74	0.24	0	0	2	2	0	1800	1800	0
9/1/2024 15:58	61102	BERK_T5	0	0	0	0	0	0	1.3	1.28	2	2	0	600	600	0
9/1/2024 16:00	61701	ELIZ_T1	7	14	7	0.83	0.9	0.07	0	0	0	0	0	0	0	0
9/1/2024 16:00	61703	ELIZ_T1	25	29	4	0.26	0.29	0.03	0	0	0	0	0	0	0	0
9/1/2024 16:00	61102	BERK_T5	0	0	0	0	0	0	0.65	0.64	1	1	0	300	300	0
9/1/2024 16:01	57401	SPAN_T1	1	3	2	0.4	0.1	-0.3	-0.97	-0.85	1	1	0	600	600	0
9/1/2024 16:01	57403	SPAN_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 16:09	52002	LING_T2	1	39	38	0.2	0.29	0.09	0	0	0	0	0	0	0	0
9/1/2024 16:09	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 16:09	52004	LING_T2	2	3	1	3.3	3.25	-0.05	0.23	0.21	0	0	0	0	0	0
9/1/2024 16:12	46206	DANV_T2	1	3	2	0.6	0.7	0.1	0	0	0	0	0	0	0	0
9/1/2024 16:12	41901	REED_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/1/2024 16:12	41902	REED_T1	29	43	14	0.65	0.49	-0.16	0.48	0.53	1	1	0	900	900	0
9/1/2024 16:12	46203	DANV_T2	1	1	0	5.1	4.7	-0.4	-1.35	-1.37	0	0	0	0	0	0
9/1/2024 16:12	10502	CRAC_T1	0	1	1	0	0.6	0.6	1.8	1.79	0	0	0	0	0	0
9/1/2024 16:13	61802	EELI_T2	8	8	0	2.18	2.09	-0.09	-0.28	-0.27	0	0	0	0	0	0
9/1/2024 16:13	59101	WALK_T2	8	1	-7	0.66	0	-0.66	-0.12	-0.09	1	1	0	600	600	0
9/1/2024 16:13	61801	EELI_T2	15	15	0	0.78	0.84	0.06	0	0	0	0	0	0	0	0
9/1/2024 16:14	61802	EELI_T2	8	8	0	2.18	2.09	-0.09	0	0	0	0	0	0	0	0
9/1/2024 16:14	46203	DANV_T2	1	1	0	5.1	4.7	-0.4	-1.35	-1.37	0	0	0	0	0	0
9/1/2024 16:14	46206	DANV_T2	1	3	2	0.6	0.7	0.1	0	0	0	0	0	0	0	0
9/1/2024 16:14	61801	EELI_T2	15	15	0	0.78	0.84	0.06	-0.16	-0.24	1	1	0	600	600	0
9/1/2024 16:16	61803	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 16:16	46206	DANV_T2	3	2	-1	0.4	1	0.6	0	0	0	0	0	0	0	0
9/1/2024 16:16	46203	DANV_T2	1	1	0	4.7	4.6	-0.1	-1.35	-1.37	0	0	0	0	0	0
9/1/2024 16:16	61801	EELI_T2	13	18	5	0.82	0.85	0.03	-0.16	-0.24	1	1	0	600	600	0
9/1/2024 16:16	61802	EELI_T2	8	8	0	2.09	2.26	0.17	-0.14	-0.13	0	0	0	0	0	0
9/1/2024 16:17	61702	ELIZ_T2	25	30	5	0.28	0.42	0.14	-1.33	-1.24	2	2	0	1500	1500	0
9/1/2024 16:17	61801	EELI_T2	13	18	5	0.82	0.85	0.03	0	0	0	0	0	0	0	0
9/1/2024 16:17	61802	EELI_T2	8	8	0	2.09	2.26	0.17	-0.14	-0.13	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/1/2024 16:17	61803	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 16:17	61704	ELIZ_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/1/2024 16:18	61801	EELI_T2	13	18	5	0.82	0.85	0.03	0	0	0	0	0	0	0	0
9/1/2024 16:18	61802	EELI_T2	8	8	0	2.09	2.26	0.17	-0.14	-0.13	0	0	0	0	0	0
9/1/2024 16:18	61803	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 16:20	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
9/1/2024 16:20	45702	LIND_T2	7	7	0	2.21	2.39	0.18	-1.19	-1.16	0	0	0	0	0	0
9/1/2024 16:20	61701	ELIZ_T1	8	17	9	0.68	0.39	-0.29	0	0	0	0	0	0	0	0
9/1/2024 16:20	61703	ELIZ_T1	20	35	15	0.34	0.32	-0.02	-2.44	-2.46	2	2	0	2100	2100	0
9/1/2024 16:21	42903	MIDD_T2	0	0	0	0	0	0	0.37	0.32	0	0	0	0	0	0
9/1/2024 16:21	42902	MIDD_T2	11	4	-7	0.89	2.7	1.81	0	0	0	0	0	0	0	0
9/1/2024 16:27	45602	WOOL_T1	27	43	16	0.39	0.47	0.08	-0.23	-0.26	1	1	0	900	900	0
9/1/2024 16:33	46102	MACI_T1	0	0	0	0	0	0	0.95	0.93	0	0	0	0	0	0
9/1/2024 16:39	13904	SEID_T1	56	70	14	0.75	0.85	0.1	0.76	0.72	0	0	0	0	0	0
9/1/2024 16:39	13903	SEID_T1	6	11	5	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
9/1/2024 16:39	44203	POIN_T2	5	12	7	0.58	0	-0.58	0.51	-0.55	1	2	1	900	2100	1200
9/1/2024 16:40	20402	ASHF_T2	6	20	14	0.32	0.25	-0.07	0	0	0	0	0	0	0	0
9/1/2024 16:40	20403	ASHF_T2	0	1	1	0	0	0	-0.16	-0.18	0	0	0	0	0	0
9/1/2024 16:40	20401	ASHF_T2	19	18	-1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
9/1/2024 16:42	55002	NEWP_T1	0	0	0	0	0	0	0.12	0.07	0	0	0	0	0	0
9/1/2024 16:48	40101	HUNT_T2	38	87	49	0.45	0.45	0	-1.18	-1.17	0	0	0	0	0	0
9/1/2024 16:49	42902	MIDD_T2	2	10	8	1.45	0.89	-0.56	-0.22	-0.21	0	0	0	0	0	0
9/1/2024 16:50	22905	HARW_T1	4	19	15	0.15	0.48	0.33	0	0	0	0	0	0	0	0
9/1/2024 16:50	22901	HARW_T1	24	34	10	0.76	0.41	-0.35	-0.44	-0.51	1	1	0	1200	1200	0
9/1/2024 16:50	42902	MIDD_T2	2	10	8	1.45	0.89	-0.56	-0.45	-0.43	0	0	0	0	0	0
9/1/2024 16:50	22903	HARW_T1	6	13	7	0.42	0.61	0.19	0	0	0	0	0	0	0	0
9/1/2024 16:54	16505	STRO_T1	6	10	4	1.33	1.84	0.51	0.56	0.56	0	0	0	0	0	0
9/1/2024 16:55	16505	STRO_T1	6	10	4	1.33	1.84	0.51	0	0	0	0	0	0	0	0
9/1/2024 16:55	40502	CRES_T2	1	1	0	0.2	0.2	0	-0.99	-1.02	0	0	0	0	0	0
9/1/2024 16:55	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 17:03	12302	LANA_T2	0	1	1	0	0	0	-1.8	-1.82	3	3	0	2700	2700	0
9/1/2024 17:03	12301	LANA_T2	3	2	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/1/2024 17:03	12305	LANA_T2	7	12	5	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
9/1/2024 17:03	12304	LANA_T2	21	16	-5	0.56	0.42	-0.14	0	0	0	0	0	0	0	0
9/1/2024 17:06	64903	MILL_T2	0	0	0	0	0	0	-1.2	-1.19	0	0	0	0	0	0
9/1/2024 17:13	64101	REFR_T1	11	11	0	1.95	1.25	-0.7	0.61	0.6	0	0	0	0	0	0
9/1/2024 17:14	46203	DANV_T2	3	1	-2	1.6	5.9	4.3	-1.38	-2.28	0	0	0	0	0	0
9/1/2024 17:14	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 17:14	46206	DANV_T2	3	3	0	0.63	0.73	0.1	0	0	0	0	0	0	0	0
9/1/2024 17:15	40201	BEGA_T2	14	9	-5	0.96	1.17	0.21	0	0	0	0	0	0	0	0
9/1/2024 17:16	43103	SMIL_T2	3	3	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
9/1/2024 17:16	43101	SMIL_T2	93	98	5	1.81	1.77	-0.04	0	0	0	0	0	0	0	0
9/1/2024 17:16	43104	SMIL_T2	2	6	4	0.2	0.23	0.03	0	0	0	0	0	0	0	0
9/1/2024 17:16	43108	SMIL_T2	15	15	0	0.35	0.48	0.13	-0.79	-0.78	1	1	0	1200	1200	0
9/1/2024 17:19	40101	HUNT_T2	84	64	-20	0.52	0.58	0.06	-1.2	-1.18	0	0	0	0	0	0
9/1/2024 17:21	13302	ORVI_T2	0	0	0	0	0	0	0.89	0.91	0	0	0	0	0	0
9/1/2024 17:25	57403	SPAN_T1	6	8	2	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
9/1/2024 17:25	57401	SPAN_T1	5	36	31	0.34	0.2	-0.14	-0.86	-0.83	1	1	0	600	600	0
9/1/2024 17:29	51602	DUKE_T2	0	0	0	0	0	0	-1.67	-1.73	2	2	0	2400	2400	0
9/1/2024 17:31	51602	DUKE_T2	0	0	0	0	0	0	-0.84	-0.86	1	1	0	1200	1200	0
9/1/2024 17:32	63804	HEMP_T1	2	2	0	5.2	6.3	1.1	-1.14	-1.16	0	0	0	0	0	0
9/1/2024 17:43	47403	PENS_T1	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
9/1/2024 17:43	47402	PENS_T1	1	7	6	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/1/2024 17:43	47401	PENS_T1	1	3	2	1.8	1.3	-0.5	0.02	0.15	0	0	0	0	0	0
9/1/2024 17:45	61302	EARL_T1	0	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0
9/1/2024 17:45	61303	EARL_T1	2	3	1	0.35	0.4	0.05	0.25	0.21	0	0	0	0	0	0
9/1/2024 17:52	52001	LING_T1	0	1	1	0	0	0	-0.27	-0.3	0	0	0	0	0	0
9/1/2024 17:52	52003	LING_T1	2	4	2	0.45	0.85	0.4	0	0	0	0	0	0	0	0
9/1/2024 17:54	54602	SUMM_T2	0	0	0	0	0	0	-1.92	-1.92	1	1	0	600	600	0
9/1/2024 17:56	52001	LING_T1	0	1	1	0	0	0	-0.27	-0.3	0	0	0	0	0	0
9/1/2024 17:56	52003	LING_T1	2	4	2	0.45	0.85	0.4	0	0	0	0	0	0	0	0
9/1/2024 18:02	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/1/2024 18:04	63602	LETO_T1	0	0	0	0	0	0	-0.14	-0.16	1	1	0	600	600	0
9/1/2024 18:05	63602	LETO_T1	0	0	0	0	0	0	-0.14	-0.16	1	1	0	600	600	0
9/1/2024 18:07	54001	SDLE_T1	125	96	-29	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
9/1/2024 18:08	54001	SDLE_T1	125	96	-29	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
9/1/2024 18:08	43304	WATS_T2	18	15	-3	0.68	0.93	0.25	0	0	0	0	0	0	0	0
9/1/2024 18:08	43301	WATS_T2	2	2	0	1	0	-1	-0.03	-0.04	1	1	0	900	900	0
9/1/2024 18:09	57103	SPHI_T2	0	0	0	0	0	0	-0.86	-0.89	1	1	0	600	600	0
9/1/2024 18:11	54001	SDLE_T1	125	96	-29	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
9/1/2024 18:13	10109	ALLE_T3	9	5	-4	0.76	0.42	-0.34	0	0	0	0	0	0	0	0
9/1/2024 18:13	10101	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 18:13	10103	ALLE_T3	17	11	-6	0.44	0.71	0.27	0	0	0	0	0	0	0	0
9/1/2024 18:13	10205	ALLE_T3	3	5	2	2.23	1.6	-0.63	0	0	0	0	0	0	0	0
9/1/2024 18:13	10107	ALLE_T3	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/1/2024 18:13	10105	ALLE_T3	4	3	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/1/2024 18:22	47802	MOCA_T2	0	0	0	0	0	0	-1.43	-1.36	0	0	0	0	0	0
9/1/2024 18:22	44905	SCOT_T1	6	6	0	1.77	0.82	-0.95	0	0	0	0	0	0	0	0
9/1/2024 18:22	51002	NHAR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/1/2024 18:22	51003	NHAR_T1	0	0	0	0	0	0	-2.09	-2	0	0	0	0	0	0
9/1/2024 18:22	51004	NHAR_T1	1	1	0	6.9	6.6	-0.3	0	0	0	0	0	0	0	0
9/1/2024 18:23	51002	NHAR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/1/2024 18:23	51004	NHAR_T1	1	1	0	6.9	6.6	-0.3	-0.5	-0.57	0	0	0	0	0	0
9/1/2024 18:24	59101	WALK_T2	0	0	0	0	0	0	-0.11	-0.03	1	1	0	600	600	0
9/1/2024 18:25	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 18:25	61402	SLIT_T1	3	3	0	0.33	0	-0.33	0	0	0	0	0	0	0	0
9/1/2024 18:26	45602	WOOL_T1	18	32	14	0.38	0.4	0.02	-0.3	-0.35	1	1	0	900	900	0
9/1/2024 18:26	45601	WOOL_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/1/2024 18:28	59101	WALK_T2	0	0	0	0	0	0	-0.11	-0.03	1	1	0	600	600	0
9/1/2024 18:32	12006	HATF_T1	0	0	0	0	0	0	0.84	0.87	0	0	0	0	0	0
9/1/2024 18:32	12003	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 18:32	12005	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/1/2024 18:35	59101	WALK_T2	0	0	0	0	0	0	-0.11	-0.03	1	1	0	600	600	0
9/1/2024 18:38	44301	BEAV_T2	42	12	-30	0.75	0.44	-0.31	-1.05	-1.08	1	1	0	600	600	0
9/1/2024 18:39	13903	SEID_T1	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/1/2024 18:39	13904	SEID_T1	21	13	-8	0.53	0.54	0.01	0	0	0	0	0	0	0	0
9/1/2024 18:41	67603	WARW_T1	0	0	0	0	0	0	-0.28	-0.36	0	0	0	0	0	0
9/1/2024 18:41	67605	WARW_T1	3	3	0	0.85	0.53	-0.32	0	0	0	0	0	0	0	0
9/1/2024 18:46	11205	ELHE_T1	6	27	21	0.32	0	-0.32	0	0	0	0	0	0	0	0
9/1/2024 18:46	11203	ELHE_T1	1	1	0	0.1	0	-0.1	0.18	0.2	0	0	0	0	0	0
9/1/2024 18:55	10105	ALLE_T3	2	5	3	0.1	0.1	0	0	0	0	0	0	0	0	0
9/1/2024 18:55	10103	ALLE_T3	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
9/1/2024 18:55	10205	ALLE_T3	2	2	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
9/1/2024 18:55	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 18:55	10109	ALLE_T3	5	8	3	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
9/1/2024 18:59	63304	GREE_T1	0	0	0	0	0	0	-3.36	-2.11	1	0	-1	1200	0	-1200
9/1/2024 19:00	11904	ETEX_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
9/1/2024 19:01	11904	ETEX_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
9/1/2024 19:02	14702	TREX_T2	0	0	0	0	0	0	1.08	1.07	0	0	0	0	0	0
9/1/2024 19:16	10801	CHHI_T1	9	4	-5	0.56	0.2	-0.36	-1.25	-1.25	3	3	0	2100	2100	0
9/1/2024 19:20	53802	MBRG_T2	0	0	0	0	0	0	-0.75	-0.71	0	0	0	0	0	0
9/1/2024 19:21	53802	MBRG_T2	0	0	0	0	0	0	-0.75	-0.71	0	0	0	0	0	0
9/1/2024 19:22	66502	SMAN_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
9/1/2024 19:22	66504	SMAN_T2	2	0	-2	1.05	0	-1.05	0	0	0	0	0	0	0	0
9/1/2024 19:22	66505	SMAN_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
9/1/2024 19:25	41901	REED_T1	5	9	4	0.3	0.43	0.13	0	0	0	0	0	0	0	0
9/1/2024 19:25	41903	REED_T1	0	0	0	0	0	0	0.16	0.12	1	1	0	1200	1200	0
9/1/2024 19:25	41902	REED_T1	7	6	-1	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
9/1/2024 19:53	61801	EELI_T2	3	5	2	1	1.7	0.7	-0.31	-0.29	1	1	0	600	600	0
9/1/2024 19:53	61802	EELI_T2	8	8	0	0.88	0.81	-0.07	0	0	0	0	0	0	0	0
9/1/2024 20:02	46801	HEPB_T2	0	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0
9/1/2024 20:03	58401	MORO_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/1/2024 20:03	58402	MORO_T1	0	0	0	0	0	0	-0.68	-0.73	2	2	0	1350	1350	0
9/1/2024 20:10	13101	NHAM_T1	0	0	0	0	0	0	-3.68	-3.74	4	4	0	4200	4200	0
9/1/2024 20:10	13104	NHAM_T1	11	16	5	0.75	1.59	0.84	0	0	0	0	0	0	0	0
9/1/2024 20:15	46801	HEPB_T2	0	2	2	0	1	1	0	0.08	0	0	0	0	0	0
9/1/2024 20:17	42302	MOWR_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
9/1/2024 20:18	43101	SMIL_T2	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/1/2024 20:18	43104	SMIL_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	300	300	0
9/1/2024 20:18	43103	SMIL_T2	1	4	3	0.1	0.25	0.15	0	0	0	0	0	0	0	0
9/1/2024 20:36	61402	SLIT_T1	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
9/1/2024 20:36	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 20:51	63501	HEID_TBK1-2	48	48	0	1.61	1.29	-0.32	0.18	0.02	1	1	0	900	900	0
9/1/2024 20:54	58402	MORO_T1	0	0	0	0	0	0	0.09	0.07	2	2	0	1350	1350	0
9/1/2024 21:08	42201	SHEN_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
9/1/2024 21:10	42201	SHEN_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
9/1/2024 21:10	25603	ARRO_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
9/1/2024 21:13	42201	SHEN_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
9/1/2024 21:13	45901	AUBU_T1	29	33	4	0.29	0.25	-0.04	0.36	0.38	0	0	0	0	0	0
9/1/2024 21:13	45902	AUBU_T1	21	24	3	0.24	0.25	0.01	0	0	0	0	0	0	0	0
9/1/2024 21:19	63503	HEID_TBK1-2	48	48	0	1.33	0.97	-0.36	0.02	-0.03	1	1	0	900	900	0
9/1/2024 21:20	45501	DERR_T2	0	0	0	0	0	0	-0.52	-0.54	2	2	0	1800	1800	0
9/1/2024 21:25	15604	NSTR_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
9/1/2024 21:29	10702	CATA_T2	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
9/1/2024 21:31	16402	MOPO_T1	3	0	-3	0.47	0	-0.47	-0.02	-0.04	0	0	0	0	0	0
9/1/2024 21:31	15203	SIAR_T2	0	0	0	0	0	0	-0.67	-0.72	0	0	0	0	0	0
9/1/2024 21:31	23102	MOSC_T2	0	0	0	0	0	0	-0.57	-0.56	2	2	0	1800	1800	0
9/1/2024 21:32	10705	CATA_T2	0	0	0	0	0	0	-3.45	-3.56	2	2	0	1800	1800	0
9/1/2024 21:32	16102	BING_T2	4	16	12	0.15	0.33	0.18	0	0	0	0	0	0	0	0
9/1/2024 21:32	21206	ECAR_T2	11	1	-10	0.87	7.6	6.73	-0.12	-0.12	0	0	0	0	0	0
9/1/2024 21:32	40502	CRES_T2	14	55	41	0.36	0.37	0.01	-0.88	-0.94	0	0	0	0	0	0
9/1/2024 21:32	40501	CRES_T2	3	9	6	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/1/2024 21:32	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:32	16101	BING_T2	0	0	0	0	0	0	0.84	0.78	0	0	0	0	0	0
9/1/2024 21:33	16302	ALPA_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
9/1/2024 21:33	43103	SMIL_T2	1	9	8	0.2	0.36	0.16	0	0	0	0	0	0	0	0
9/1/2024 21:33	13904	SEID_T1	12	10	-2	0.54	0.13	-0.41	0	0	0	0	0	0	0	0
9/1/2024 21:33	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:33	25402	LAHA_T2	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
9/1/2024 21:33	43108	SMIL_T2	0	0	0	0	0	0	-1.07	-1.1	1	1	0	1200	1200	0
9/1/2024 21:33	13905	SEID_T1	0	0	0	0	0	0	-0.66	-0.69	1	1	0	1200	1200	0
9/1/2024 21:34	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:34	10109	ALLE_T3	9	7	-2	0.53	0	-0.53	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/1/2024 21:34	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	-1.13	-1.15	0	0	0	0	0	0
9/1/2024 21:34	14303	SUMN_T1	3	3	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
9/1/2024 21:34	10205	ALLE_T3	2	2	0	1.35	1	-0.35	0	0	0	0	0	0	0	0
9/1/2024 21:34	14308	SUMN_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
9/1/2024 21:34	61701	ELIZ_T1	1	1	0	0.9	1.4	0.5	1.81	1.74	0	0	0	0	0	0
9/1/2024 21:34	26402	INOR_T1	7	6	-1	1.8	0.68	-1.12	-1.76	-1.78	1	1	0	600	600	0
9/1/2024 21:34	45901	AUBU_T1	27	97	70	0.22	0.31	0.09	0	0	0	0	0	0	0	0
9/1/2024 21:34	12701	MACU_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	1200	1200	0
9/1/2024 21:34	14306	SUMN_T1	4	1	-3	0.38	0	-0.38	0	0	0	0	0	0	0	0
9/1/2024 21:34	45902	AUBU_T1	23	58	35	0.25	0.35	0.1	-0.54	-0.57	0	0	0	0	0	0
9/1/2024 21:34	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:34	10103	ALLE_T3	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
9/1/2024 21:34	26401	INOR_T1	2	3	1	2.2	4.6	2.4	0	0	0	0	0	0	0	0
9/1/2024 21:34	10805	CHHI_T2	1	1	0	8.6	8.3	-0.3	-0.78	-0.81	1	1	0	600	600	0
9/1/2024 21:34	10703	CATA_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
9/1/2024 21:35	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:35	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/1/2024 21:35	10702	CATA_T2	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
9/1/2024 21:35	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
9/1/2024 21:35	13503	MCMI_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
9/1/2024 21:35	10705	CATA_T2	0	0	0	0	0	0	-1.72	-1.78	1	1	0	900	900	0
9/1/2024 21:35	29402	BELT_T1	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
9/1/2024 21:35	21206	ECAR_T2	11	1	-10	0.87	7.6	6.73	-0.12	-0.12	0	0	0	0	0	0
9/1/2024 21:35	20601	GRWO_T2	0	0	0	0	0	0	0.77	0.77	0	0	0	0	0	0
9/1/2024 21:35	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	-1.13	-1.15	0	0	0	0	0	0
9/1/2024 21:35	11604	CEAL_T1	5	9	4	0.1	0.29	0.19	0	0	0	0	0	0	0	0
9/1/2024 21:36	29402	BELT_T1	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
9/1/2024 21:36	14702	TREX_T2	0	0	0	0	0	0	0.81	0.84	0	0	0	0	0	0
9/1/2024 21:36	16302	ALPA_T2	0	0	0	0	0	0	-0.46	-0.51	0	0	0	0	0	0
9/1/2024 21:36	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	-1.15	-1.16	0	0	0	0	0	0
9/1/2024 21:36	47101	MARL_T1	6	11	5	0.48	1.05	0.57	-0.33	-0.51	0	0	0	0	0	0
9/1/2024 21:36	61303	EARL_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
9/1/2024 21:36	42601	TUSC_T1	0	0	0	0	0	0	-0.52	-0.7	4	4	0	3600	3600	0
9/1/2024 21:36	12302	LANA_T2	0	0	0	0	0	0	-2.28	-2.32	3	3	0	2700	2700	0
9/1/2024 21:36	10702	CATA_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
9/1/2024 21:36	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
9/1/2024 21:36	47002	HUGH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/1/2024 21:36	51901	COPA_T1	0	0	0	0	0	0	-0.96	-0.99	1	1	0	1200	1200	0
9/1/2024 21:36	47001	HUGH_T2	3	3	0	7.7	8.47	0.77	-1.49	-1.53	1	1	0	900	900	0
9/1/2024 21:36	10705	CATA_T2	0	0	0	0	0	0	-1.78	-1.81	1	1	0	900	900	0
9/1/2024 21:36	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
9/1/2024 21:36	51904	COPA_T1	5	5	0	0.46	0.68	0.22	0	0	0	0	0	0	0	0
9/1/2024 21:36	41702	LOGA_T2	0	71	71	0	0.21	0.21	0	0	0	0	0	0	0	0
9/1/2024 21:36	13503	MCMI_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
9/1/2024 21:36	11202	ELHE_T2	0	0	0	0	0	0	0.28	0.26	1	1	0	1200	1200	0
9/1/2024 21:36	28805	LAKE_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
9/1/2024 21:37	40502	CRES_T2	14	55	41	0.36	0.37	0.01	-2.81	-2.74	0	0	0	0	0	0
9/1/2024 21:37	40501	CRES_T2	3	9	6	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/1/2024 21:37	61802	EELI_T2	8	5	-3	0.56	0.23	-0.33	0	0	0	0	0	0	0	0
9/1/2024 21:37	52004	LING_T2	2	2	0	4.35	4.8	0.45	0.06	0.03	0	0	0	0	0	0
9/1/2024 21:37	10701	CATA_T2	0	0	0	0	0	0	-1.64	-1.69	1	1	0	1200	1200	0
9/1/2024 21:37	14203	EALL_T1	0	0	0	0	0	0	0.03	-0.02	1	1	0	1200	1200	0
9/1/2024 21:37	66505	SMAN_T2	0	0	0	0	0	0	0.01	0.02	3	3	0	2100	2100	0
9/1/2024 21:37	46203	DANV_T2	1	1	0	5	5.6	0.6	-1.66	-1.72	0	0	0	0	0	0
9/1/2024 21:37	11104	EGYP_T1	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
9/1/2024 21:37	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
9/1/2024 21:37	11302	EMMA_T1	0	0	0	0	0	0	-0.79	-0.81	1	1	0	600	600	0
9/1/2024 21:37	29402	BELT_T1	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
9/1/2024 21:37	10705	CATA_T2	0	0	0	0	0	0	-3.56	-3.62	2	2	0	1800	1800	0
9/1/2024 21:37	17401	FOHI_T1	0	0	0	0	0	0	-1.66	-1.68	0	0	0	0	0	0
9/1/2024 21:37	65004	NEFF_T2	0	0	0	0	0	0	-0.56	-0.5	1	1	0	600	600	0
9/1/2024 21:37	61801	EELI_T2	1	1	0	1.2	0.5	-0.7	0.21	0.18	0	0	0	0	0	0
9/1/2024 21:38	40501	CRES_T2	3	9	6	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/1/2024 21:38	40101	HUNT_T2	5	7	2	0.3	0	-0.3	-1.13	-1.14	0	0	0	0	0	0
9/1/2024 21:38	10805	CHHI_T2	1	1	0	8.6	8.3	-0.3	-0.81	-0.84	1	1	0	600	600	0
9/1/2024 21:38	42903	MIDD_T2	2	2	0	0.25	0.6	0.35	0	0	0	0	0	0	0	0
9/1/2024 21:38	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:38	46004	BERW_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/1/2024 21:38	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:38	40502	CRES_T2	14	55	41	0.36	0.37	0.01	-0.94	-0.91	0	0	0	0	0	0
9/1/2024 21:38	28702	HAML_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
9/1/2024 21:38	17401	FOHI_T1	0	0	0	0	0	0	-1.66	-1.68	0	0	0	0	0	0
9/1/2024 21:38	42902	MIDD_T2	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
9/1/2024 21:38	10103	ALLE_T3	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
9/1/2024 21:38	10705	CATA_T2	0	0	0	0	0	0	-1.78	-1.81	1	1	0	900	900	0
9/1/2024 21:38	63803	HEMP_T1	0	0	0	0	0	0	0.89	0.99	0	0	0	0	0	0
9/1/2024 21:38	13302	ORVI_T2	0	0	0	0	0	0	1.72	1.65	0	0	0	0	0	0
9/1/2024 21:38	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
9/1/2024 21:38	14403	SSLA_T1	0	0	0	0	0	0	0.19	0.16	1	1	0	600	600	0
9/1/2024 21:38	10205	ALLE_T3	2	2	0	1.35	1	-0.35	0	0	0	0	0	0	0	0
9/1/2024 21:38	56504	ROCK_T2	0	0	0	0	0	0	-0.77	-0.81	0	0	0	0	0	0
9/1/2024 21:38	16302	ALPA_T2	0	0	0	0	0	0	-0.46	-0.51	0	0	0	0	0	0
9/1/2024 21:38	56501	ROCK_T2	3	5	2	0.53	0.55	0.02	0	0	0	0	0	0	0	0
9/1/2024 21:38	10109	ALLE_T3	9	7	-2	0.53	0	-0.53	0	0	0	0	0	0	0	0
9/1/2024 21:38	67503	WEWI_T2	1	1	0	5.5	5.8	0.3	-0.15	-0.18	0	0	0	0	0	0
9/1/2024 21:38	64903	MILL_T2	0	0	0	0	0	0	-1.46	-1.49	0	0	0	0	0	0
9/1/2024 21:38	46002	BERW_T2	0	0	0	0	0	0	-1.07	-1.08	1	1	0	900	900	0
9/1/2024 21:38	16402	MOPO_T1	3	0	-3	0.47	0	-0.47	-0.04	-0.04	0	0	0	0	0	0
9/1/2024 21:39	45901	AUBU_T1	27	97	70	0.22	0.31	0.09	0	0	0	0	0	0	0	0
9/1/2024 21:39	10705	CATA_T2	0	0	0	0	0	0	-1.78	-1.81	1	1	0	900	900	0
9/1/2024 21:39	11904	ETEX_T2	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
9/1/2024 21:39	11507	FREE_T2	0	1	1	0	0	0	-0.34	-0.32	0	0	0	0	0	0
9/1/2024 21:39	61501	EPET_T2	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
9/1/2024 21:39	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
9/1/2024 21:39	45902	AUBU_T1	23	58	35	0.25	0.35	0.1	-0.57	-0.56	0	0	0	0	0	0
9/1/2024 21:39	14203	EALL_T1	0	0	0	0	0	0	0.03	-0.02	1	1	0	1200	1200	0
9/1/2024 21:39	63402	HONY_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/1/2024 21:39	63403	HONY_T2	0	0	0	0	0	0	-0.76	-0.85	0	0	0	0	0	0
9/1/2024 21:39	63802	HEMP_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
9/1/2024 21:39	42701	AUGU_T1	2	0	-2	0.15	0	-0.15	0	0	2	2	0	1800	1800	0
9/1/2024 21:39	10703	CATA_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
9/1/2024 21:39	46004	BERW_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/1/2024 21:39	25503	MADI_T1	2	60	58	0.1	0.23	0.13	-0.77	-0.79	0	0	0	0	0	0
9/1/2024 21:39	25501	MADI_T1	3	3	0	1.23	1.67	0.44	0	0	0	0	0	0	0	0
9/1/2024 21:39	42203	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:39	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:39	27604	PIRI_T1	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
9/1/2024 21:39	47002	HUGH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/1/2024 21:39	24602	VARD_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
9/1/2024 21:39	24603	VARD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:39	61506	EPET_T2	0	0	0	0	0	0	-0.76	-0.72	1	1	0	900	900	0
9/1/2024 21:39	42201	SHEN_T2	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
9/1/2024 21:39	46002	BERW_T2	0	0	0	0	0	0	-1.07	-1.08	1	1	0	900	900	0
9/1/2024 21:39	43103	SMIL_T2	1	9	8	0.2	0.36	0.16	-3.88	-3.79	0	0	0	0	0	0
9/1/2024 21:39	47001	HUGH_T2	3	3	0	7.7	8.47	0.77	-1.49	-1.53	1	1	0	900	900	0
9/1/2024 21:39	20403	ASHF_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
9/1/2024 21:39	66504	SMAN_T2	0	0	0	0	0	0	-2.1	-2.09	2	2	0	2400	2400	0
9/1/2024 21:40	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
9/1/2024 21:40	62604	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:40	67605	WARW_T1	3	3	0	0.97	1.13	0.16	0	0	0	0	0	0	0	0
9/1/2024 21:40	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/1/2024 21:40	44703	MUNC_T2	0	2	2	0	0.15	0.15	0.07	0.05	0	0	0	0	0	0
9/1/2024 21:40	63802	HEMP_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
9/1/2024 21:40	67603	WARW_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
9/1/2024 21:40	56504	ROCK_T2	0	0	0	0	0	0	-0.77	-0.81	0	0	0	0	0	0
9/1/2024 21:40	53901	HALI_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
9/1/2024 21:40	40502	CRES_T2	14	55	41	0.36	0.37	0.01	-0.94	-0.91	0	0	0	0	0	0
9/1/2024 21:40	47401	PENS_T1	0	0	0	0	0	0	-0.35	-0.44	0	0	0	0	0	0
9/1/2024 21:40	11104	EGYP_T1	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
9/1/2024 21:40	29402	BELT_T1	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
9/1/2024 21:40	62606	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/1/2024 21:40	10707	CATA_T2	0	0	0	0	0	0	0.69	0.62	0	0	0	0	0	0
9/1/2024 21:40	22101	EDEL_T2	0	0	0	0	0	0	0.96	1	1	1	0	1200	1200	0
9/1/2024 21:40	45501	DERR_T2	0	0	0	0	0	0	-0.57	-0.58	2	2	0	1800	1800	0
9/1/2024 21:40	10805	CHHI_T2	1	1	0	8.6	8.3	-0.3	-0.81	-0.84	1	1	0	600	600	0
9/1/2024 21:40	43103	SMIL_T2	1	9	8	0.2	0.36	0.16	0	0	0	0	0	0	0	0
9/1/2024 21:40	49804	UNIV_T1	0	2	2	0	0.15	0.15	-0.31	-0.37	0	0	0	0	0	0
9/1/2024 21:40	42701	AUGU_T1	2	0	-2	0.15	0	-0.15	0	0	2	2	0	1800	1800	0
9/1/2024 21:40	44203	POIN_T2	0	0	0	0	0	0	-0.19	-0.25	1	1	0	1200	1200	0
9/1/2024 21:40	55001	NEWP_T1	0	0	0	0	0	0	-0.64	-0.62	1	1	0	600	600	0
9/1/2024 21:40	62605	ENGL_T1	0	0	0	0	0	0	-1.54	-1.56	0	0	0	0	0	0
9/1/2024 21:40	46002	BERW_T2	0	0	0	0	0	0	-2.13	-2.16	2	2	0	1800	1800	0
9/1/2024 21:40	67503	WEWI_T2	1	1	0	5.5	5.8	0.3	-0.15	-0.18	0	0	0	0	0	0
9/1/2024 21:40	40501	CRES_T2	3	9	6	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/1/2024 21:40	41501	FAIR_T2	0	0	0	0	0	0	-1.06	-1.06	1	1	0	600	600	0
9/1/2024 21:40	53902	HALI_T2	1	1	0	4.1	4.5	0.4	0	0	0	0	0	0	0	0
9/1/2024 21:40	10702	CATA_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
9/1/2024 21:40	56501	ROCK_T2	3	5	2	0.53	0.55	0.02	0	0	0	0	0	0	0	0
9/1/2024 21:40	45901	AUBU_T1	27	97	70	0.22	0.31	0.09	0.4	0.35	0	0	0	0	0	0
9/1/2024 21:40	45902	AUBU_T1	23	58	35	0.25	0.35	0.1	0	0	0	0	0	0	0	0
9/1/2024 21:40	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
9/1/2024 21:40	49803	UNIV_T1	1	1	0	5.4	5	-0.4	0	0	0	0	0	0	0	0
9/1/2024 21:40	55002	NEWP_T1	3	5	2	0.43	0.66	0.23	0	0	0	0	0	0	0	0
9/1/2024 21:40	53903	HALI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/1/2024 21:40	46004	BERW_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/1/2024 21:40	17401	FOHI_T1	0	0	0	0	0	0	-1.66	-1.68	0	0	0	0	0	0
9/1/2024 21:41	45501	DERR_T2	0	0	0	0	0	0	-0.57	-0.58	2	2	0	1800	1800	0
9/1/2024 21:41	25603	ARRO_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
9/1/2024 21:41	45602	WOOL_T1	32	55	23	0.39	0.58	0.19	0.23	0.23	0	0	0	0	0	0
9/1/2024 21:41	52004	LING_T2	2	2	0	4.35	4.8	0.45	0	0	0	0	0	0	0	0
9/1/2024 21:41	43103	SMIL_T2	1	9	8	0.2	0.36	0.16	-1.94	-1.89	0	0	0	0	0	0
9/1/2024 21:41	53901	HALI_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
9/1/2024 21:41	40501	CRES_T2	3	9	6	0.2	0.4	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/1/2024 21:41	40502	CRES_T2	14	55	41	0.36	0.37	0.01	-2.81	-2.74	0	0	0	0	0	0
9/1/2024 21:41	45901	AUBU_T1	27	97	70	0.22	0.31	0.09	0	0	0	0	0	0	0	0
9/1/2024 21:41	47802	MOCA_T2	0	0	0	0	0	0	-1.51	-1.46	0	0	0	0	0	0
9/1/2024 21:41	56504	ROCK_T2	0	0	0	0	0	0	-0.77	-0.81	0	0	0	0	0	0
9/1/2024 21:41	10704	CATA_T2	0	0	0	0	0	0	-0.14	-0.17	2	2	0	2400	2400	0
9/1/2024 21:41	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:41	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:41	51904	COPA_T1	5	5	0	0.46	0.68	0.22	-1.41	-1.43	2	2	0	1200	1200	0
9/1/2024 21:41	53902	HALI_T2	1	1	0	4.1	4.5	0.4	-0.7	-0.74	0	0	0	0	0	0
9/1/2024 21:41	47101	MARL_T1	6	11	5	0.48	1.05	0.57	-0.33	-0.51	0	0	0	0	0	0
9/1/2024 21:41	17401	FOHI_T1	0	0	0	0	0	0	-1.66	-1.68	0	0	0	0	0	0
9/1/2024 21:41	45902	AUBU_T1	23	58	35	0.25	0.35	0.1	-1.71	-1.67	0	0	0	0	0	0
9/1/2024 21:41	53903	HALI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/1/2024 21:41	42802	SELI_T1	1	1	0	0.5	0.8	0.3	-1.29	-1.24	1	1	0	900	900	0
9/1/2024 21:41	10705	CATA_T2	0	0	0	0	0	0	-3.56	-3.62	2	2	0	1800	1800	0
9/1/2024 21:41	56501	ROCK_T2	3	5	2	0.53	0.55	0.02	0	0	0	0	0	0	0	0
9/1/2024 21:41	52002	LING_T2	0	0	0	0	0	0	-0.29	-0.36	0	0	0	0	0	0
9/1/2024 21:42	62604	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:42	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
9/1/2024 21:42	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:42	40101	HUNT_T2	5	7	2	0.3	0	-0.3	-2.26	-2.28	0	0	0	0	0	0
9/1/2024 21:42	53902	HALI_T2	1	1	0	4.1	4.5	0.4	0	0	0	0	0	0	0	0
9/1/2024 21:42	42902	MIDD_T2	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
9/1/2024 21:42	14702	TREX_T2	0	0	0	0	0	0	0.81	0.84	0	0	0	0	0	0
9/1/2024 21:42	14201	EALL_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
9/1/2024 21:42	62605	ENGL_T1	0	0	0	0	0	0	-1.54	-1.56	0	0	0	0	0	0
9/1/2024 21:42	42903	MIDD_T2	2	2	0	0.25	0.6	0.35	0	0	0	0	0	0	0	0
9/1/2024 21:42	40502	CRES_T2	14	55	41	0.36	0.37	0.01	-1.87	-1.83	0	0	0	0	0	0
9/1/2024 21:42	40501	CRES_T2	3	9	6	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/1/2024 21:42	44203	POIN_T2	0	0	0	0	0	0	-0.19	-0.25	1	1	0	1200	1200	0
9/1/2024 21:42	45702	LIND_T2	0	0	0	0	0	0	-1.58	-1.57	0	0	0	0	0	0
9/1/2024 21:42	53903	HALI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/1/2024 21:42	40602	PIGR_T1	1	1	0	0.7	0.2	-0.5	-1.46	-1.53	1	1	0	600	600	0
9/1/2024 21:42	45602	WOOL_T1	32	55	23	0.39	0.58	0.19	0.23	0.23	0	0	0	0	0	0
9/1/2024 21:42	66302	MCGO_T2	0	0	0	0	0	0	-1.25	-1.17	1	1	0	600	600	0
9/1/2024 21:42	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/1/2024 21:42	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
9/1/2024 21:42	22602	KIMB_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
9/1/2024 21:42	10705	CATA_T2	0	0	0	0	0	0	-3.56	-3.62	2	2	0	1800	1800	0
9/1/2024 21:42	45902	AUBU_T1	23	58	35	0.25	0.35	0.1	-0.57	-0.56	0	0	0	0	0	0
9/1/2024 21:42	63803	HEMP_T1	0	0	0	0	0	0	0.89	0.99	0	0	0	0	0	0
9/1/2024 21:42	53901	HALI_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
9/1/2024 21:42	48302	ORWI_T2	2	2	0	0.35	0.8	0.45	0	0	0	0	0	0	0	0
9/1/2024 21:42	44703	MUNC_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/1/2024 21:42	62606	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/1/2024 21:42	20403	ASHF_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
9/1/2024 21:42	47401	PENS_T1	0	0	0	0	0	0	-0.69	-0.88	0	0	0	0	0	0
9/1/2024 21:42	66303	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/1/2024 21:42	45901	AUBU_T1	27	97	70	0.22	0.31	0.09	0.4	0.35	0	0	0	0	0	0
9/1/2024 21:42	61002	DONV_T2	0	0	0	0	0	0	-0.77	-0.94	2	2	0	1200	1200	0
9/1/2024 21:42	54001	SDLE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:42	10805	CHHI_T2	1	1	0	8.6	8.3	-0.3	-0.81	-0.84	1	1	0	600	600	0
9/1/2024 21:42	16302	ALPA_T2	0	0	0	0	0	0	-0.46	-0.51	0	0	0	0	0	0
9/1/2024 21:42	56501	ROCK_T2	3	5	2	0.53	0.55	0.02	-2.06	-0.84	0	0	0	0	0	0
9/1/2024 21:42	55101	WERT_T1	0	0	0	0	0	0	-1.81	-1.89	3	3	0	2400	2400	0
9/1/2024 21:42	63802	HEMP_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
9/1/2024 21:42	11205	ELHE_T1	1	0	-1	0.3	0	-0.3	-0.38	-0.42	1	1	0	1200	1200	0
9/1/2024 21:43	42802	SELI_T1	1	1	0	0.5	0.8	0.3	-2.58	-2.49	2	2	0	1800	1800	0
9/1/2024 21:43	14202	EALL_T2	3	3	0	0.2	0.53	0.33	0	0	0	0	0	0	0	0
9/1/2024 21:43	40101	HUNT_T2	5	7	2	0.3	0	-0.3	-1.13	-1.14	0	0	0	0	0	0
9/1/2024 21:43	14204	EALL_T2	4	0	-4	0.3	0	-0.3	0.23	0.25	0	0	0	0	0	0
9/1/2024 21:43	13303	ORVI_T1	0	0	0	0	0	0	0.95	0.99	0	0	0	0	0	0
9/1/2024 21:43	53102	WTWN_T1	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
9/1/2024 21:43	44203	POIN_T2	0	0	0	0	0	0	-0.19	-0.25	1	1	0	1200	1200	0
9/1/2024 21:43	10705	CATA_T2	0	0	0	0	0	0	-1.78	-1.81	1	1	0	900	900	0
9/1/2024 21:43	46504	LOHA_T1	2	2	0	0.7	1.15	0.45	0	0	0	0	0	0	0	0
9/1/2024 21:43	44801	EDAN_T2	1	0	-1	0.7	0	-0.7	-1.47	-1.46	0	0	0	0	0	0
9/1/2024 21:43	40501	CRES_T2	3	9	6	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/1/2024 21:43	45502	DERR_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
9/1/2024 21:43	65001	NEFF_T2	0	0	0	0	0	0	-0.78	-0.87	1	1	0	1200	1200	0
9/1/2024 21:43	46501	LOHA_T1	1	1	0	1.7	2.7	1	0	0	0	0	0	0	0	0
9/1/2024 21:43	51906	COPA_T1	0	0	0	0	0	0	-1.45	-0.58	2	2	0	1500	1500	0
9/1/2024 21:43	62604	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:43	52202	DEVO_T2	0	0	0	0	0	0	-0.84	-0.88	0	0	0	0	0	0
9/1/2024 21:43	61102	BERK_T5	0	0	0	0	0	0	0.2	0.81	1	1	0	300	300	0
9/1/2024 21:43	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:43	46506	LOHA_T1	3	3	0	3.4	3.97	0.57	0.04	0.04	0	0	0	0	0	0
9/1/2024 21:43	61002	DONV_T2	0	0	0	0	0	0	-0.77	-0.94	2	2	0	1200	1200	0
9/1/2024 21:43	40901	JESH_T1	1	0	-1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
9/1/2024 21:43	52204	DEVO_T2	3	3	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
9/1/2024 21:43	58706	ROSE_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
9/1/2024 21:43	58702	ROSE_T2	0	0	0	0	0	0	-2.09	-2.11	0	0	0	0	0	0
9/1/2024 21:43	55002	NEWP_T1	3	5	2	0.43	0.66	0.23	0	0	0	0	0	0	0	0
9/1/2024 21:43	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:43	52502	PROG_T2	0	0	0	0	0	0	-0.08	-0.09	2	2	0	1800	1800	0
9/1/2024 21:43	13904	SEID_T1	12	10	-2	0.54	0.13	-0.41	0.65	0.67	0	0	0	0	0	0
9/1/2024 21:43	55001	NEWP_T1	0	0	0	0	0	0	-0.64	-0.62	1	1	0	600	600	0
9/1/2024 21:43	40502	CRES_T2	14	55	41	0.36	0.37	0.01	-0.94	-0.91	0	0	0	0	0	0
9/1/2024 21:43	40902	JESH_T1	0	0	0	0	0	0	-1.01	-0.43	1	0	-1	600	0	-600
9/1/2024 21:43	58705	ROSE_T2	2	2	0	0.5	0.95	0.45	0	0	0	0	0	0	0	0
9/1/2024 21:43	51904	COPA_T1	5	5	0	0.46	0.68	0.22	0	0	0	0	0	0	0	0
9/1/2024 21:43	42601	TUSC_T1	0	0	0	0	0	0	-0.26	-0.35	2	2	0	1800	1800	0
9/1/2024 21:43	42701	AUGU_T1	2	0	-2	0.15	0	-0.15	0	0	2	2	0	1800	1800	0
9/1/2024 21:43	62606	ENGL_T1	1	0	-1	0.1	0	-0.1	-1.7	-1.7	2	2	0	1500	1500	0
9/1/2024 21:44	22905	HARW_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
9/1/2024 21:44	14702	TREX_T2	0	0	0	0	0	0	0.81	0.84	0	0	0	0	0	0
9/1/2024 21:44	22602	KIMB_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
9/1/2024 21:44	52002	LING_T2	0	0	0	0	0	0	-0.29	-0.36	0	0	0	0	0	0
9/1/2024 21:44	20403	ASHF_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
9/1/2024 21:44	43301	WATS_T2	1	1	0	0.3	0.4	0.1	-0.37	-0.41	1	1	0	900	900	0
9/1/2024 21:44	45602	WOOL_T1	32	55	23	0.39	0.58	0.19	0.45	0.45	0	0	0	0	0	0
9/1/2024 21:44	47401	PENS_T1	0	0	0	0	0	0	-0.35	-0.44	0	0	0	0	0	0
9/1/2024 21:44	22901	HARW_T1	0	0	0	0	0	0	-0.6	-0.62	1	1	0	1200	1200	0
9/1/2024 21:44	52204	DEVO_T2	3	3	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
9/1/2024 21:44	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:44	22903	HARW_T1	6	22	16	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
9/1/2024 21:44	53501	EVIL_T2	1	1	0	0.9	1	0.1	-0.01	-0.01	1	1	0	600	600	0
9/1/2024 21:44	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:44	56501	ROCK_T2	3	5	2	0.53	0.55	0.02	-2.06	-0.84	0	0	0	0	0	0
9/1/2024 21:44	53901	HALI_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
9/1/2024 21:44	10801	CHHI_T1	0	0	0	0	0	0	-3.11	-3.25	6	6	0	4200	4200	0
9/1/2024 21:44	61102	BERK_T5	0	0	0	0	0	0	0.2	0.81	1	1	0	300	300	0
9/1/2024 21:44	47101	MARL_T1	6	11	5	0.48	1.05	0.57	-0.33	-0.51	0	0	0	0	0	0
9/1/2024 21:44	53601	DALM_T2	1	1	0	0.6	0.8	0.2	-0.38	0.16	0	0	0	0	0	0
9/1/2024 21:44	56504	ROCK_T2	0	0	0	0	0	0	-0.77	-0.81	0	0	0	0	0	0
9/1/2024 21:44	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
9/1/2024 21:44	45902	AUBU_T1	23	58	35	0.25	0.35	0.1	-0.57	-0.56	0	0	0	0	0	0
9/1/2024 21:44	43103	SMIL_T2	1	9	8	0.2	0.36	0.16	0	0	0	0	0	0	0	0
9/1/2024 21:44	52202	DEVO_T2	0	0	0	0	0	0	-0.84	-0.88	0	0	0	0	0	0
9/1/2024 21:44	59301	MCAL_T1	2	2	0	0.5	0.8	0.3	-1.68	-1.66	1	1	0	600	600	0
9/1/2024 21:44	59302	MCAL_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
9/1/2024 21:44	45901	AUBU_T1	27	97	70	0.22	0.31	0.09	0	0	0	0	0	0	0	0
9/1/2024 21:44	41502	FAIR_T2	0	0	0	0	0	0	-1.47	-1.48	1	1	0	900	900	0
9/1/2024 21:44	40101	HUNT_T2	5	7	2	0.3	0	-0.3	-1.13	-1.14	0	0	0	0	0	0
9/1/2024 21:44	53902	HALI_T2	1	1	0	4.1	4.5	0.4	0	0	0	0	0	0	0	0
9/1/2024 21:44	52004	LING_T2	2	2	0	4.35	4.8	0.45	0.06	0.03	0	0	0	0	0	0
9/1/2024 21:44	53903	HALI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/1/2024 21:44	11302	EMMA_T1	0	0	0	0	0	0	-1.58	-1.62	2	2	0	1200	1200	0
9/1/2024 21:44	60502	NMAN_T2	0	0	0	0	0	0	0.28	0.22	0	0	0	0	0	0
9/1/2024 21:44	40602	PIGR_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
9/1/2024 21:44	43108	SMIL_T2	0	0	0	0	0	0	-1.1	-1.14	1	1	0	1200	1200	0
9/1/2024 21:44	29402	BELT_T1	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
9/1/2024 21:44	41501	FAIR_T2	0	0	0	0	0	0	-1.06	-1.06	1	1	0	600	600	0
9/1/2024 21:44	14203	EALL_T1	0	0	0	0	0	0	0.03	-0.02	1	1	0	1200	1200	0
9/1/2024 21:45	52404	GRPA_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
9/1/2024 21:45	43101	SMIL_T2	0	0	0	0	0	0	-0.73	-0.49	0	0	0	0	0	0
9/1/2024 21:45	63602	LETO_T1	0	0	0	0	0	0	-0.46	-0.51	1	1	0	600	600	0
9/1/2024 21:45	45802	HEGI_T2	12	14	2	0.32	0.36	0.04	0.7	0.66	0	0	0	0	0	0
9/1/2024 21:45	22805	HAUT_T2	0	0	0	0	0	0	-1.4	-1.43	1	1	0	1200	1200	0
9/1/2024 21:45	54602	SUMM_T2	0	0	0	0	0	0	-2.01	-2.04	1	1	0	600	600	0
9/1/2024 21:45	13503	MCMI_T2	0	0	0	0	0	0	-0.76	-0.75	0	0	0	0	0	0
9/1/2024 21:45	66701	STRA_T1	0	1	1	0	0	0	0.32	0.33	1	1	0	600	600	0
9/1/2024 21:45	44801	EDAN_T2	0	0	0	0	0	0	-1.47	-1.46	0	0	0	0	0	0
9/1/2024 21:45	27604	PIRI_T1	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
9/1/2024 21:45	52403	GRPA_T2	1	1	0	0.7	0.8	0.1	-0.82	-0.84	0	0	0	0	0	0
9/1/2024 21:45	55002	NEWP_T1	3	5	2	0.63	0.78	0.15	0	0	0	0	0	0	0	0
9/1/2024 21:45	20403	ASHF_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
9/1/2024 21:45	55001	NEWP_T1	0	0	0	0	0	0	-0.64	-0.62	1	1	0	600	600	0
9/1/2024 21:45	16102	BING_T2	11	16	5	0.16	0.33	0.17	0	0	0	0	0	0	0	0
9/1/2024 21:45	67603	WARW_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
9/1/2024 21:45	43103	SMIL_T2	4	9	5	0.28	0.38	0.1	0	0	0	0	0	0	0	0
9/1/2024 21:45	52004	LING_T2	2	2	0	4.75	4.9	0.15	0	0	0	0	0	0	0	0
9/1/2024 21:45	42802	SELI_T1	1	1	0	0.8	0.4	-0.4	-1.29	-1.24	1	1	0	900	900	0
9/1/2024 21:45	67605	WARW_T1	3	3	0	1.13	0.93	-0.2	0	0	0	0	0	0	0	0
9/1/2024 21:45	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:45	52002	LING_T2	0	0	0	0	0	0	-0.29	-0.36	0	0	0	0	0	0
9/1/2024 21:45	60101	COCA_T1	0	0	0	0	0	0	0.77	0.81	0	0	0	0	0	0
9/1/2024 21:45	11104	EGYP_T1	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
9/1/2024 21:45	42801	SELI_T1	0	0	0	0	0	0	-1.05	-1.16	1	1	0	1200	1200	0
9/1/2024 21:45	53501	EVIL_T2	1	1	0	0.8	1	0.2	-0.01	-0.01	1	1	0	600	600	0
9/1/2024 21:45	66703	STRA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/1/2024 21:45	61302	EARL_T1	0	0	0	0	0	0	-0.06	-0.18	2	2	0	1800	1800	0
9/1/2024 21:45	14201	EALL_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/1/2024 21:45	20603	GRWO_T2	0	0	0	0	0	0	-0.48	-0.5	1	1	0	900	900	0
9/1/2024 21:45	46203	DANV_T2	1	1	0	5.3	5.8	0.5	-1.66	-1.72	0	0	0	0	0	0
9/1/2024 21:45	16103	BING_T2	0	0	0	0	0	0	-1.56	-1.57	2	2	0	1500	1500	0
9/1/2024 21:45	40901	JESH_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
9/1/2024 21:45	52401	GRPA_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/1/2024 21:45	40501	CRES_T2	9	9	0	0.21	0.46	0.25	0	0	0	0	0	0	0	0
9/1/2024 21:45	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
9/1/2024 21:45	52202	DEVO_T2	0	0	0	0	0	0	-0.84	-0.88	0	0	0	0	0	0
9/1/2024 21:45	52402	GRPA_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/1/2024 21:45	40502	CRES_T2	22	57	35	0.4	0.36	-0.04	-5.61	-5.48	0	0	0	0	0	0
9/1/2024 21:45	43102	SMIL_T2	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
9/1/2024 21:45	52204	DEVO_T2	3	3	0	0.53	0.2	-0.33	0	0	0	0	0	0	0	0
9/1/2024 21:46	66502	SMAN_T2	0	0	0	0	0	0	0.01	-0.04	0	0	0	0	0	0
9/1/2024 21:46	53501	EVIL_T2	1	1	0	0.8	1	0.2	-0.01	-0.01	1	1	0	600	600	0
9/1/2024 21:46	51904	COPA_T1	5	5	0	0.68	0.42	-0.26	0	0	0	0	0	0	0	0
9/1/2024 21:46	61102	BERK_T5	0	0	0	0	0	0	0.2	0.81	1	1	0	300	300	0
9/1/2024 21:46	61301	EARL_T1	0	0	0	0	0	0	-1.6	-0.7	4	2	-2	3600	1800	-1800
9/1/2024 21:46	41901	REED_T1	9	9	0	0.33	0.53	0.2	0	0	0	0	0	0	0	0
9/1/2024 21:46	45802	HEGI_T2	12	14	2	0.32	0.36	0.04	0.7	0.66	0	0	0	0	0	0
9/1/2024 21:46	16002	DORN_T2	0	0	0	0	0	0	-0.25	-0.26	1	1	0	1200	1200	0
9/1/2024 21:46	10702	CATA_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
9/1/2024 21:46	64801	MONE_T2	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
9/1/2024 21:46	43103	SMIL_T2	4	9	5	0.28	0.38	0.1	0	0	0	0	0	0	0	0
9/1/2024 21:46	60101	COCA_T1	0	0	0	0	0	0	0.77	0.81	0	0	0	0	0	0
9/1/2024 21:46	64101	REFR_T1	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
9/1/2024 21:46	12302	LANA_T2	0	0	0	0	0	0	-2.28	-2.32	3	3	0	2700	2700	0
9/1/2024 21:46	10707	CATA_T2	0	0	0	0	0	0	0.69	0.62	0	0	0	0	0	0
9/1/2024 21:46	61501	EPET_T2	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
9/1/2024 21:46	44301	BEAV_T2	0	4	4	0	0.2	0.2	-1.45	-1.47	1	1	0	600	600	0
9/1/2024 21:46	12001	HATF_T1	0	61	61	0	0.14	0.14	0	0	0	0	0	0	0	0
9/1/2024 21:46	12006	HATF_T1	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
9/1/2024 21:46	43108	SMIL_T2	0	0	0	0	0	0	-2.21	-2.28	2	2	0	2400	2400	0
9/1/2024 21:46	53903	HALI_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/1/2024 21:46	41902	REED_T1	0	0	0	0	0	0	0.28	0.25	1	1	0	900	900	0
9/1/2024 21:46	12005	HATF_T1	5	5	0	0.4	0.66	0.26	0	0	0	0	0	0	0	0
9/1/2024 21:46	53902	HALI_T2	1	1	0	3.7	5.1	1.4	-0.7	-0.74	0	0	0	0	0	0
9/1/2024 21:46	63804	HEMP_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
9/1/2024 21:46	60502	NMAN_T2	0	0	0	0	0	0	0.28	0.22	0	0	0	0	0	0
9/1/2024 21:46	63803	HEMP_T1	0	0	0	0	0	0	0.89	0.99	0	0	0	0	0	0
9/1/2024 21:46	44302	BEAV_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
9/1/2024 21:46	47101	MARL_T1	11	2	-9	0.65	1.4	0.75	-0.33	-0.51	0	0	0	0	0	0
9/1/2024 21:46	40502	CRES_T2	22	57	35	0.4	0.36	-0.04	-0.94	-0.91	0	0	0	0	0	0
9/1/2024 21:46	40501	CRES_T2	9	9	0	0.21	0.46	0.25	0	0	0	0	0	0	0	0
9/1/2024 21:46	46203	DANV_T2	1	1	0	5.3	5.8	0.5	-1.66	-1.72	0	0	0	0	0	0
9/1/2024 21:46	43102	SMIL_T2	0	6	6	0	0.12	0.12	-0.61	-0.63	1	1	0	600	600	0
9/1/2024 21:46	10704	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:46	51906	COPA_T1	0	0	0	0	0	0	-1.45	-0.58	2	2	0	1500	1500	0
9/1/2024 21:46	12004	HATF_T1	0	14	14	0	0.16	0.16	0	0	0	0	0	0	0	0
9/1/2024 21:46	46004	BERW_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
9/1/2024 21:46	12002	HATF_T1	1	57	56	0.1	0.18	0.08	0	0	0	0	0	0	0	0
9/1/2024 21:46	10705	CATA_T2	0	0	0	0	0	0	-3.56	-3.62	2	2	0	1800	1800	0
9/1/2024 21:47	56501	ROCK_T2	4	1	-3	0.55	0.1	-0.45	-4.11	-1.68	0	0	0	0	0	0
9/1/2024 21:47	61701	ELIZ_T1	1	1	0	1	1.5	0.5	0	0	0	0	0	0	0	0
9/1/2024 21:47	53502	EVIL_T2	0	0	0	0	0	0	0.03	0.05	1	1	0	600	600	0
9/1/2024 21:47	67801	WLAN_T1	0	0	0	0	0	0	-1.08	-1.13	0	0	0	0	0	0
9/1/2024 21:47	46801	HEPB_T2	2	2	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
9/1/2024 21:47	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
9/1/2024 21:47	43202	MVIL_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
9/1/2024 21:47	67901	WNHO_T2	23	2	-21	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
9/1/2024 21:47	67605	WARW_T1	3	3	0	1.13	0.93	-0.2	-1.05	-1.07	0	0	0	0	0	0
9/1/2024 21:47	64101	REFR_T1	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
9/1/2024 21:47	14403	SSLA_T1	0	0	0	0	0	0	0.19	0.16	1	1	0	600	600	0
9/1/2024 21:47	44302	BEAV_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
9/1/2024 21:47	52401	GRPA_T2	1	1	0	0.7	0.7	0	-0.35	-0.31	0	0	0	0	0	0
9/1/2024 21:47	63804	HEMP_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
9/1/2024 21:47	66504	SMAN_T2	0	0	0	0	0	0	-1.05	-1.05	1	1	0	1200	1200	0
9/1/2024 21:47	55002	NEWP_T1	3	5	2	0.63	0.78	0.15	-0.1	-0.11	0	0	0	0	0	0
9/1/2024 21:47	51906	COPA_T1	0	0	0	0	0	0	-1.45	-0.58	2	2	0	1500	1500	0
9/1/2024 21:47	51904	COPA_T1	5	5	0	0.68	0.42	-0.26	0	0	0	0	0	0	0	0
9/1/2024 21:47	52402	GRPA_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/1/2024 21:47	20403	ASHF_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
9/1/2024 21:47	52403	GRPA_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/1/2024 21:47	40501	CRES_T2	9	9	0	0.21	0.46	0.25	0	0	0	0	0	0	0	0
9/1/2024 21:47	55001	NEWP_T1	0	0	0	0	0	0	-0.64	-0.62	1	1	0	600	600	0
9/1/2024 21:47	54001	SDLE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:47	14401	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:47	43201	MVIL_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
9/1/2024 21:47	66505	SMAN_T2	0	0	0	0	0	0	0.01	0.02	3	3	0	2100	2100	0
9/1/2024 21:47	67902	WNHO_T2	0	0	0	0	0	0	-0.42	-0.45	2	2	0	2100	2100	0
9/1/2024 21:47	63802	HEMP_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
9/1/2024 21:47	52001	LING_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:47	40502	CRES_T2	22	57	35	0.4	0.36	-0.04	-0.94	-0.91	0	0	0	0	0	0
9/1/2024 21:47	53501	EVIL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
9/1/2024 21:47	44203	POIN_T2	0	0	0	0	0	0	-0.19	-0.25	1	1	0	1200	1200	0
9/1/2024 21:47	46803	HEPB_T2	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
9/1/2024 21:47	54701	NEBL_T1	1	2	1	0.5	1.5	1	0	0	1	1	0	600	600	0
9/1/2024 21:47	67804	WLAN_T1	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/1/2024 21:47	65205	PRIN_T1	1	1	0	1.3	1.7	0.4	0	0	0	0	0	0	0	0
9/1/2024 21:47	10705	CATA_T2	0	0	0	0	0	0	-3.56	-3.62	2	2	0	1800	1800	0
9/1/2024 21:47	61703	ELIZ_T1	0	0	0	0	0	0	-2.61	-2.61	2	2	0	2100	2100	0
9/1/2024 21:47	44801	EDAN_T2	0	0	0	0	0	0	-1.47	-1.46	0	0	0	0	0	0
9/1/2024 21:47	44301	BEAV_T2	0	4	4	0	0.2	0.2	-1.45	-1.47	1	1	0	600	600	0
9/1/2024 21:47	53802	MBRG_T2	0	0	0	0	0	0	0.04	-0.02	0	0	0	0	0	0
9/1/2024 21:47	61001	DONV_T1	0	0	0	0	0	0	0.28	0.23	0	0	0	0	0	0
9/1/2024 21:47	40602	PIGR_T1	1	1	0	0.5	0	-0.5	-1.46	-1.53	1	1	0	600	600	0
9/1/2024 21:47	64902	MILL_T2	0	0	0	0	0	0	-0.83	-0.84	1	1	0	900	900	0
9/1/2024 21:48	43103	SMIL_T2	4	9	5	0.28	0.38	0.1	0	0	0	0	0	0	0	0
9/1/2024 21:48	53802	MBRG_T2	0	0	0	0	0	0	0.04	-0.02	0	0	0	0	0	0
9/1/2024 21:48	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:48	67605	WARW_T1	3	3	0	1.13	0.93	-0.2	-2.09	-2.14	0	0	0	0	0	0
9/1/2024 21:48	64602	LEOL_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
9/1/2024 21:48	40101	HUNT_T2	7	0	-7	0.41	0	-0.41	-1.13	-1.14	0	0	0	0	0	0
9/1/2024 21:48	10705	CATA_T2	0	0	0	0	0	0	-1.78	-1.81	1	1	0	900	900	0
9/1/2024 21:48	11302	EMMA_T1	0	0	0	0	0	0	-0.79	-0.81	1	1	0	600	600	0
9/1/2024 21:48	14201	EALL_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
9/1/2024 21:48	43102	SMIL_T2	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
9/1/2024 21:48	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:48	47101	MARL_T1	11	2	-9	0.65	1.4	0.75	-0.33	-0.51	0	0	0	0	0	0
9/1/2024 21:48	62604	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/1/2024 21:48	54001	SDLE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:48	11904	ETEX_T2	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
9/1/2024 21:48	49804	UNIV_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/1/2024 21:48	67503	WEWI_T2	1	1	0	5.3	5.8	0.5	-0.15	-0.18	0	0	0	0	0	0
9/1/2024 21:48	42902	MIDD_T2	0	0	0	0	0	0	-0.94	-0.97	0	0	0	0	0	0
9/1/2024 21:48	52204	DEVO_T2	3	3	0	0.53	0.2	-0.33	0	0	0	0	0	0	0	0
9/1/2024 21:48	52202	DEVO_T2	0	0	0	0	0	0	-0.84	-0.88	0	0	0	0	0	0
9/1/2024 21:48	60101	COCA_T1	0	0	0	0	0	0	0.77	0.81	0	0	0	0	0	0
9/1/2024 21:48	43104	SMIL_T2	0	0	0	0	0	0	-0.6	-0.57	1	1	0	300	300	0
9/1/2024 21:48	65401	MARI_T1	17	8	-9	1.79	0	-1.79	0	0	0	0	0	0	0	0
9/1/2024 21:48	42503	ALTA_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
9/1/2024 21:48	49803	UNIV_T1	1	1	0	5.2	5	-0.2	-2.14	-2.09	0	0	0	0	0	0
9/1/2024 21:48	63501	HEID_TBK1-2	48	48	0	0.97	0.78	-0.19	0.14	-0.04	1	1	0	900	900	0
9/1/2024 21:48	51804	EBEN_T2	1	3	2	0.1	0.27	0.17	-0.97	-0.99	1	1	0	900	900	0
9/1/2024 21:48	62605	ENGL_T1	0	0	0	0	0	0	-1.54	-1.56	0	0	0	0	0	0
9/1/2024 21:48	40501	CRES_T2	9	9	0	0.21	0.46	0.25	0	0	0	0	0	0	0	0
9/1/2024 21:48	66703	STRA_T1	0	1	1	0	0.1	0.1	-1.52	-1.57	0	0	0	0	0	0
9/1/2024 21:48	47401	PENS_T1	0	0	0	0	0	0	-0.35	-0.44	0	0	0	0	0	0
9/1/2024 21:48	40502	CRES_T2	22	57	35	0.4	0.36	-0.04	-1.87	-1.83	0	0	0	0	0	0
9/1/2024 21:48	64101	REFR_T1	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
9/1/2024 21:48	46203	DANV_T2	1	1	0	5.3	5.8	0.5	-1.66	-1.72	0	0	0	0	0	0
9/1/2024 21:48	12701	MACU_T1	0	0	0	0	0	0	-0.95	-1.01	1	1	0	1200	1200	0
9/1/2024 21:48	46004	BERW_T2	0	0	0	0	0	0	-0.61	-0.59	0	0	0	0	0	0
9/1/2024 21:48	10502	CRAC_T1	0	0	0	0	0	0	1.44	1.43	0	0	0	0	0	0
9/1/2024 21:48	56501	ROCK_T2	4	1	-3	0.55	0.1	-0.45	-2.06	-0.84	0	0	0	0	0	0
9/1/2024 21:48	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:48	42903	MIDD_T2	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
9/1/2024 21:49	40602	PIGR_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/1/2024 21:49	47101	MARL_T1	11	2	-9	0.65	1.4	0.75	-0.33	-0.51	0	0	0	0	0	0
9/1/2024 21:49	57205	ROSS_T1	0	0	0	0	0	0	-0.79	-0.85	0	0	0	0	0	0
9/1/2024 21:49	61102	BERK_T5	0	0	0	0	0	0	0.6	2.43	3	3	0	900	900	0
9/1/2024 21:49	10705	CATA_T2	0	0	0	0	0	0	-3.56	-3.62	2	2	0	1800	1800	0
9/1/2024 21:49	43104	SMIL_T2	0	0	0	0	0	0	-0.6	-0.57	1	1	0	300	300	0
9/1/2024 21:49	56501	ROCK_T2	4	1	-3	0.55	0.1	-0.45	-4.11	-1.68	0	0	0	0	0	0
9/1/2024 21:49	63305	GREE_T1	2	9	7	0.1	0.25	0.15	0	0	0	0	0	0	0	0
9/1/2024 21:49	43102	SMIL_T2	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
9/1/2024 21:49	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:49	44302	BEAV_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
9/1/2024 21:49	63302	GREE_T1	0	0	0	0	0	0	-0.51	-0.55	0	0	0	0	0	0
9/1/2024 21:49	52204	DEVO_T2	3	3	0	0.53	0.2	-0.33	0	0	0	0	0	0	0	0
9/1/2024 21:49	67605	WARW_T1	3	3	0	1.13	0.93	-0.2	-1.05	-1.07	0	0	0	0	0	0
9/1/2024 21:49	52001	LING_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
9/1/2024 21:49	63304	GREE_T1	4	88	84	0.13	0.15	0.02	0	0	0	0	0	0	0	0
9/1/2024 21:49	63803	HEMP_T1	0	0	0	0	0	0	0.89	0.99	0	0	0	0	0	0
9/1/2024 21:49	63804	HEMP_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
9/1/2024 21:49	42802	SELI_T1	1	1	0	0.8	0.4	-0.4	-1.29	-1.24	1	1	0	900	900	0
9/1/2024 21:49	44301	BEAV_T2	0	4	4	0	0.2	0.2	-1.45	-1.47	1	1	0	600	600	0
9/1/2024 21:49	66502	SMAN_T2	0	0	0	0	0	0	0.01	-0.04	0	0	0	0	0	0
9/1/2024 21:49	11804	FRAN_T1	0	0	0	0	0	0	0.81	0.78	0	0	0	0	0	0
9/1/2024 21:49	67203	TEHI_T1	0	0	0	0	0	0	1.17	1.14	1	1	0	900	900	0
9/1/2024 21:49	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:49	43103	SMIL_T2	4	9	5	0.28	0.38	0.1	-1.94	-1.89	0	0	0	0	0	0
9/1/2024 21:49	63306	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:49	47401	PENS_T1	0	0	0	0	0	0	-0.35	-0.44	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/1/2024 21:49	52202	DEVO_T2	0	0	0	0	0	0	-0.84	-0.88	0	0	0	0	0	0
9/1/2024 21:49	51904	COPA_T1	5	5	0	0.68	0.42	-0.26	0	0	0	0	0	0	0	0
9/1/2024 21:49	13704	SCHN_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
9/1/2024 21:49	61703	ELIZ_T1	0	0	0	0	0	0	-2.61	-2.61	2	2	0	2100	2100	0
9/1/2024 21:49	61802	EELI_T2	5	4	-1	0.2	0	-0.2	-0.36	-0.35	0	0	0	0	0	0
9/1/2024 21:49	61801	EELI_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
9/1/2024 21:49	41501	FAIR_T2	0	0	0	0	0	0	-1.06	-1.06	1	1	0	600	600	0
9/1/2024 21:49	61701	ELIZ_T1	1	1	0	1	1.5	0.5	1.74	1.68	0	0	0	0	0	0
9/1/2024 21:49	63802	HEMP_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
9/1/2024 21:49	53102	WTWN_T1	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
9/1/2024 21:49	47502	NECO_T1	1	1	0	0.5	0.7	0.2	0.79	0.82	0	0	0	0	0	0
9/1/2024 21:49	51902	COPA_T1	0	0	0	0	0	0	-1.7	-1.77	1	1	0	1200	1200	0
9/1/2024 21:49	66901	SHIL_T2	0	0	0	0	0	0	-2.19	-2.19	1	1	0	1200	1200	0
9/1/2024 21:50	40502	CRES_T2	22	57	35	0.4	0.36	-0.04	-2.81	-2.74	0	0	0	0	0	0
9/1/2024 21:50	61701	ELIZ_T1	1	1	0	1	1.5	0.5	0	0	0	0	0	0	0	0
9/1/2024 21:50	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:50	41001	LAUR_T2	0	32	32	0	0.15	0.15	0	0	0	0	0	0	0	0
9/1/2024 21:50	41002	LAUR_T2	36	40	4	0.35	0.3	-0.05	0.05	0.05	0	0	0	0	0	0
9/1/2024 21:50	54203	PENN_T1	18	18	0	0.77	0.81	0.04	-0.06	0.56	1	0	-1	600	0	-600
9/1/2024 21:50	10701	CATA_T2	0	0	0	0	0	0	-1.64	-1.69	1	1	0	1200	1200	0
9/1/2024 21:50	40501	CRES_T2	9	9	0	0.21	0.46	0.25	0	0	0	0	0	0	0	0
9/1/2024 21:50	47101	MARL_T1	11	2	-9	0.65	1.4	0.75	0	0	0	0	0	0	0	0
9/1/2024 21:50	60101	COCA_T1	0	0	0	0	0	0	0.77	0.81	0	0	0	0	0	0
9/1/2024 21:50	13704	SCHN_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
9/1/2024 21:50	52402	GRPA_T2	1	1	0	0.5	0.3	-0.2	-0.57	-0.55	0	0	0	0	0	0
9/1/2024 21:50	51904	COPA_T1	5	5	0	0.68	0.42	-0.26	-1.41	-1.43	2	2	0	1200	1200	0
9/1/2024 21:50	40602	PIGR_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/1/2024 21:50	42201	SHEN_T2	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
9/1/2024 21:50	40601	PIGR_T1	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
9/1/2024 21:50	47104	MARL_T1	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
9/1/2024 21:50	61703	ELIZ_T1	0	0	0	0	0	0	-5.22	-5.22	4	4	0	4200	4200	0
9/1/2024 21:50	57106	SPHI_T2	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/1/2024 21:50	57103	SPHI_T2	0	0	0	0	0	0	-0.49	-0.51	1	1	0	600	600	0
9/1/2024 21:50	63602	LETO_T1	0	0	0	0	0	0	-0.46	-0.51	1	1	0	600	600	0
9/1/2024 21:50	61802	EELI_T2	5	4	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/1/2024 21:50	53902	HALI_T2	1	1	0	3.7	5.1	1.4	-0.7	-0.74	0	0	0	0	0	0
9/1/2024 21:50	54506	ENOL_T2	0	0	0	0	0	0	0.78	0.64	1	1	0	600	600	0
9/1/2024 21:50	10707	CATA_T2	0	0	0	0	0	0	0.69	0.62	0	0	0	0	0	0
9/1/2024 21:50	40902	JESH_T1	0	0	0	0	0	0	-1.01	-0.43	1	0	-1	600	0	-600
9/1/2024 21:50	54601	SUMM_T2	0	0	0	0	0	0	-1.44	-1.46	2	2	0	2100	2100	0
9/1/2024 21:50	57101	SPHI_T2	0	6	6	0	0.63	0.63	0	0	0	0	0	0	0	0
9/1/2024 21:50	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:50	53903	HALI_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/1/2024 21:50	54201	PENN_T1	34	25	-9	0.54	0.58	0.04	0	0	0	0	0	0	0	0
9/1/2024 21:50	56501	ROCK_T2	4	1	-3	0.55	0.1	-0.45	-6.17	-2.52	0	0	0	0	0	0
9/1/2024 21:50	14702	TREX_T2	0	0	0	0	0	0	0.81	0.84	0	0	0	0	0	0
9/1/2024 21:50	40901	JESH_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
9/1/2024 21:50	61801	EELI_T2	1	1	0	0.8	0.2	-0.6	0.21	0.18	0	0	0	0	0	0
9/1/2024 21:50	63804	HEMP_T1	1	1	0	5.7	5.7	0	-1.15	-1.16	0	0	0	0	0	0
9/1/2024 21:50	52403	GRPA_T2	1	1	0	0.7	0.8	0.1	-0.82	-0.84	0	0	0	0	0	0
9/1/2024 21:50	52401	GRPA_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/1/2024 21:51	51004	NHAR_T1	1	1	0	6.2	6	-0.2	-0.74	-0.79	0	0	0	0	0	0
9/1/2024 21:51	41903	REED_T1	0	0	0	0	0	0	-0.26	-0.29	1	1	0	1200	1200	0
9/1/2024 21:51	52202	DEVO_T2	0	0	0	0	0	0	-0.84	-0.88	0	0	0	0	0	0
9/1/2024 21:51	43202	MVIL_T2	0	0	0	0	0	0	-0.59	-0.64	0	0	0	0	0	0
9/1/2024 21:51	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:51	64204	KINZ_T1	1	1	0	0.7	1.4	0.7	0	0	0	0	0	0	0	0
9/1/2024 21:51	60101	COCA_T1	0	0	0	0	0	0	0.81	0.75	0	0	0	0	0	0
9/1/2024 21:51	59301	MCAL_T1	2	2	0	0.5	0.95	0.45	-1.68	-1.66	1	1	0	600	600	0
9/1/2024 21:51	53501	EVIL_T2	1	1	0	0.8	1	0.2	-0.01	-0.01	1	1	0	600	600	0
9/1/2024 21:51	56501	ROCK_T2	4	1	-3	0.55	0.1	-0.45	-2.06	-0.84	0	0	0	0	0	0
9/1/2024 21:51	57403	SPAN_T1	0	20	20	0	0.26	0.26	0.35	0.36	0	0	0	0	0	0
9/1/2024 21:51	47101	MARL_T1	11	2	-9	0.65	1.4	0.75	-1.53	-1.68	0	0	0	0	0	0
9/1/2024 21:51	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:51	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/1/2024 21:51	51904	COPA_T1	5	5	0	0.68	0.42	-0.26	0	0	0	0	0	0	0	0
9/1/2024 21:51	41901	REED_T1	9	9	0	0.33	0.53	0.2	0	0	0	0	0	0	0	0
9/1/2024 21:51	64201	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/1/2024 21:51	61701	ELIZ_T1	1	1	0	1	1.5	0.5	0	0	0	0	0	0	0	0
9/1/2024 21:51	63801	HEMP_T1	0	0	0	0	0	0	-0.67	-0.68	1	1	0	900	900	0
9/1/2024 21:51	57401	SPAN_T1	0	0	0	0	0	0	-0.73	-0.77	1	1	0	600	600	0
9/1/2024 21:51	40101	HUNT_T2	7	0	-7	0.41	0	-0.41	-1.14	-1.16	0	0	0	0	0	0
9/1/2024 21:51	57106	SPHI_T2	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/1/2024 21:51	57101	SPHI_T2	0	6	6	0	0.63	0.63	-1.91	-1.93	0	0	0	0	0	0
9/1/2024 21:51	51602	DUKE_T2	0	0	0	0	0	0	-2.15	-2.23	2	2	0	2400	2400	0
9/1/2024 21:51	10705	CATA_T2	0	0	0	0	0	0	-1.81	-1.78	1	1	0	900	900	0
9/1/2024 21:51	63804	HEMP_T1	1	1	0	5.7	5.7	0	-2.32	-0.38	0	0	0	0	0	0
9/1/2024 21:51	59302	MCAL_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
9/1/2024 21:51	44302	BEAV_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
9/1/2024 21:51	51906	COPA_T1	0	0	0	0	0	0	-2.9	-1.15	4	4	0	3000	3000	0
9/1/2024 21:51	21501	CEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:51	60801	BUCK_T1	0	0	0	0	0	0	-0.75	-0.71	1	1	0	600	600	0
9/1/2024 21:51	43108	SMIL_T2	0	0	0	0	0	0	-1.14	-1.12	1	1	0	1200	1200	0
9/1/2024 21:51	55101	WERT_T1	0	0	0	0	0	0	-1.81	-1.89	3	3	0	2400	2400	0
9/1/2024 21:51	64202	KINZ_T1	3	3	0	0.4	0.47	0.07	0	0	0	0	0	0	0	0
9/1/2024 21:51	64203	KINZ_T1	0	0	0	0	0	0	-0.25	-0.28	1	1	0	600	600	0
9/1/2024 21:51	51002	NHAR_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
9/1/2024 21:51	65503	MOJO_T2	0	0	0	0	0	0	-0.78	-0.88	1	1	0	900	900	0
9/1/2024 21:51	44301	BEAV_T2	0	4	4	0	0.2	0.2	-1.47	-1.5	1	1	0	600	600	0
9/1/2024 21:51	52101	MEIS_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
9/1/2024 21:51	57104	SPHI_T2	0	0	0	0	0	0	-1.29	-1.34	1	1	0	900	900	0
9/1/2024 21:51	67605	WARW_T1	3	3	0	1.13	0.93	-0.2	-1.07	-1.1	0	0	0	0	0	0
9/1/2024 21:51	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:51	66505	SMAN_T2	0	0	0	0	0	0	0.05	-0.04	6	6	0	4200	4200	0
9/1/2024 21:51	52204	DEVO_T2	3	3	0	0.53	0.2	-0.33	0	0	0	0	0	0	0	0
9/1/2024 21:51	43102	SMIL_T2	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
9/1/2024 21:51	43103	SMIL_T2	4	9	5	0.28	0.38	0.1	-1.89	-1.98	0	0	0	0	0	0
9/1/2024 21:52	57101	SPHI_T2	0	6	6	0	0.63	0.63	0	0	0	0	0	0	0	0
9/1/2024 21:52	55101	WERT_T1	0	0	0	0	0	0	-1.89	-1.97	3	3	0	2400	2400	0
9/1/2024 21:52	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:52	66703	STRA_T1	0	1	1	0	0.1	0.1	-1.57	-1.64	0	0	0	0	0	0
9/1/2024 21:52	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:52	57106	SPHI_T2	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/1/2024 21:52	51904	COPA_T1	5	5	0	0.68	0.42	-0.26	-1.43	-1.43	2	2	0	1200	1200	0
9/1/2024 21:52	57403	SPAN_T1	0	20	20	0	0.26	0.26	0.36	0.35	0	0	0	0	0	0
9/1/2024 21:52	51002	NHAR_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
9/1/2024 21:52	42903	MIDD_T2	2	2	0	0.35	0.6	0.25	-0.26	-0.15	0	0	0	0	0	0
9/1/2024 21:52	64101	REFR_T1	0	0	0	0	0	0	0.71	0.61	0	0	0	0	0	0
9/1/2024 21:52	42902	MIDD_T2	0	0	0	0	0	0	-0.49	-0.54	0	0	0	0	0	0
9/1/2024 21:52	51004	NHAR_T1	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
9/1/2024 21:52	59301	MCAL_T1	2	2	0	0.5	0.95	0.45	-1.66	-1.59	1	1	0	600	600	0
9/1/2024 21:52	12701	MACU_T1	0	0	0	0	0	0	-1.01	-1.02	1	1	0	1200	1200	0
9/1/2024 21:52	57401	SPAN_T1	0	0	0	0	0	0	-0.77	-0.99	1	1	0	600	600	0
9/1/2024 21:52	61801	EELI_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
9/1/2024 21:52	67605	WARW_T1	3	3	0	1.13	0.93	-0.2	-1.07	-1.1	0	0	0	0	0	0
9/1/2024 21:52	60502	NMAN_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
9/1/2024 21:52	61802	EELI_T2	5	4	-1	0.2	0	-0.2	-0.71	-0.79	0	0	0	0	0	0
9/1/2024 21:52	59302	MCAL_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
9/1/2024 21:52	51804	EBEN_T2	1	3	2	0.1	0.27	0.17	-0.99	-1.06	1	1	0	900	900	0
9/1/2024 21:52	64305	LINC_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
9/1/2024 21:52	51003	NHAR_T1	0	0	0	0	0	0	-2.24	-2.25	0	0	0	0	0	0
9/1/2024 21:52	57104	SPHI_T2	0	0	0	0	0	0	-1.34	-1.43	1	1	0	900	900	0
9/1/2024 21:52	63804	HEMP_T1	1	1	0	5.7	5.7	0	-1.16	-0.19	0	0	0	0	0	0
9/1/2024 21:53	46504	LOHA_T1	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
9/1/2024 21:53	43103	SMIL_T2	4	9	5	0.28	0.38	0.1	0	0	0	0	0	0	0	0
9/1/2024 21:53	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:53	61102	BERK_T5	0	0	0	0	0	0	0.81	0.73	1	1	0	300	300	0
9/1/2024 21:53	46501	LOHA_T1	1	2	1	2.7	0	-2.7	0	0	0	0	0	0	0	0
9/1/2024 21:53	51904	COPA_T1	5	5	0	0.68	0.42	-0.26	0	0	0	0	0	0	0	0
9/1/2024 21:53	56504	ROCK_T2	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
9/1/2024 21:53	43102	SMIL_T2	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
9/1/2024 21:53	44302	BEAV_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
9/1/2024 21:53	65702	RVIL_T2	0	0	0	0	0	0	-1.4	-1.38	1	1	0	600	600	0
9/1/2024 21:53	56501	ROCK_T2	4	1	-3	0.55	0.1	-0.45	-0.84	-0.87	0	0	0	0	0	0
9/1/2024 21:53	52004	LING_T2	2	2	0	4.75	4.9	0.15	0	0	0	0	0	0	0	0
9/1/2024 21:53	63805	GREE_T1	2	9	7	0.1	0.25	0.15	0	0	0	0	0	0	0	0
9/1/2024 21:53	43101	SMIL_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
9/1/2024 21:53	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:53	40101	HUNT_T2	7	0	-7	0.41	0	-0.41	-1.14	-1.16	0	0	0	0	0	0
9/1/2024 21:53	52403	GRPA_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/1/2024 21:53	54001	SOLE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:53	41901	REED_T1	9	9	0	0.33	0.53	0.2	0	0	0	0	0	0	0	0
9/1/2024 21:53	60101	COCA_T1	0	0	0	0	0	0	0.81	0.75	0	0	0	0	0	0
9/1/2024 21:53	52501	PROG_T1	0	1	1	0	0.1	0.1	-1.07	-1.1	1	1	0	300	300	0
9/1/2024 21:53	52202	DEVO_T2	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
9/1/2024 21:53	52001	LING_T1	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
9/1/2024 21:53	67703	WERN_T2	0	0	0	0	0	0	-1.67	-1.71	1	1	0	900	900	0
9/1/2024 21:53	55408	SHER_T2	1	1	0	2.4	2.9	0.5	-0.94	-0.94	1	1	0	1200	1200	0
9/1/2024 21:53	67201	TEHI_T1	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
9/1/2024 21:53	46506	LOHA_T1	3	3	0	3.7	3.97	0.27	0.04	0.02	0	0	0	0	0	0
9/1/2024 21:53	46102	MACI_T1	0	0	0	0	0	0	0.88	0.87	0	0	0	0	0	0
9/1/2024 21:53	41902	REED_T1	0	0	0	0	0	0	0.25	0.24	1	1	0	900	900	0
9/1/2024 21:53	63804	GREE_T1	4	88	84	0.13	0.15	0.02	-2.56	-2.59	0	0	0	0	0	0
9/1/2024 21:53	52002	LING_T2	0	0	0	0	0	0	-0.36	-0.41	0	0	0	0	0	0
9/1/2024 21:53	54602	SUMM_T2	0	0	0	0	0	0	-2.04	-2.06	1	1	0	600	600	0
9/1/2024 21:53	52401	GRPA_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/1/2024 21:53	51906	COPA_T1	0	0	0	0	0	0	-0.58	-0.59	2	2	0	1500	1500	0
9/1/2024 21:53	44301	BEAV_T2	0	4	4	0	0.2	0.2	-1.47	-1.5	1	1	0	600	600	0
9/1/2024 21:53	42903	MIDD_T2	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
9/1/2024 21:53	42902	MIDD_T2	0	0	0	0	0	0	-0.49	-0.54	0	0	0	0	0	0
9/1/2024 21:53	61702	ELIZ_T2	0	0	0	0	0	0	-1.51	-1.49	2	2	0	1500	1500	0
9/1/2024 21:53	57403	SPAN_T1	0	20	20	0	0.26	0.26	0	0	0	0	0	0	0	0
9/1/2024 21:53	63501	HEID_TBK1-2	48	48	0	0.97	0.78	-0.19	-0.04	-0.04	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/1/2024 21:53	61802	EELI_T2	5	4	-1	0.2	0	-0.2	-0.35	-0.39	0	0	0	0	0	0
9/1/2024 21:53	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:53	57401	SPAN_T1	0	0	0	0	0	0	-1.55	-1.98	2	2	0	1200	1200	0
9/1/2024 21:53	52402	GRPA_T2	1	1	0	0.5	0.3	-0.2	-0.55	-0.56	0	0	0	0	0	0
9/1/2024 21:53	63306	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:53	61801	EELI_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
9/1/2024 21:53	52204	DEVO_T2	3	3	0	0.53	0.2	-0.33	0	0	0	0	0	0	0	0
9/1/2024 21:53	43108	SMIL_T2	0	0	0	0	0	0	-1.14	-1.12	1	1	0	1200	1200	0
9/1/2024 21:54	43102	SMIL_T2	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
9/1/2024 21:54	53601	DALM_T2	1	1	0	0.8	0.4	-0.4	0.16	0.13	0	0	0	0	0	0
9/1/2024 21:54	41901	REED_T1	9	9	0	0.33	0.53	0.2	0	0	0	0	0	0	0	0
9/1/2024 21:54	51906	COPA_T1	0	0	0	0	0	0	-0.58	-0.59	2	2	0	1500	1500	0
9/1/2024 21:54	51602	DUKE_T2	0	0	0	0	0	0	-1.12	-1.1	1	1	0	1200	1200	0
9/1/2024 21:54	53802	MBRG_T2	0	0	0	0	0	0	-0.02	0.04	0	0	0	0	0	0
9/1/2024 21:54	51902	COPA_T1	0	0	0	0	0	0	-1.77	-1.79	1	1	0	1200	1200	0
9/1/2024 21:54	43104	SMIL_T2	0	0	0	0	0	0	-0.57	-0.58	1	1	0	300	300	0
9/1/2024 21:54	53501	EVIL_T2	1	1	0	0.8	1	0.2	-0.01	-0.01	1	1	0	600	600	0
9/1/2024 21:54	61802	EELI_T2	5	4	-1	0.2	0	-0.2	-0.35	-0.39	0	0	0	0	0	0
9/1/2024 21:54	54001	SDLE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 21:54	66505	SMAN_T2	0	0	0	0	0	0	0.02	-0.02	3	3	0	2100	2100	0
9/1/2024 21:54	51904	COPA_T1	5	5	0	0.68	0.42	-0.26	0	0	0	0	0	0	0	0
9/1/2024 21:54	43103	SMIL_T2	4	9	5	0.28	0.38	0.1	0	0	0	0	0	0	0	0
9/1/2024 21:54	51905	COPA_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
9/1/2024 21:54	47401	PENS_T1	0	0	0	0	0	0	-0.44	-0.51	0	0	0	0	0	0
9/1/2024 21:54	61801	EELI_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
9/1/2024 21:54	42802	SELI_T1	1	1	0	0.8	0.4	-0.4	-2.49	-0.78	2	0	-2	1800	0	-1800
9/1/2024 21:54	55101	WERT_T1	0	0	0	0	0	0	-1.89	-1.97	3	3	0	2400	2400	0
9/1/2024 21:55	41901	REED_T1	9	9	0	0.33	0.53	0.2	0	0	0	0	0	0	0	0
9/1/2024 21:55	55001	NEWP_T1	0	0	0	0	0	0	-0.62	-0.66	1	1	0	600	600	0
9/1/2024 21:55	44301	BEAV_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 21:55	57106	SPHI_T2	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/1/2024 21:55	44302	BEAV_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
9/1/2024 21:55	57401	SPAN_T1	0	0	0	0	0	0	-1.55	-1.98	2	2	0	1200	1200	0
9/1/2024 21:55	52401	GRPA_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/1/2024 21:55	57403	SPAN_T1	0	20	20	0	0.26	0.26	0	0	0	0	0	0	0	0
9/1/2024 21:55	49804	UNIV_T1	0	2	2	0	0.15	0.15	-0.37	-0.41	0	0	0	0	0	0
9/1/2024 21:55	55002	NEWP_T1	3	5	2	0.63	0.78	0.15	0	0	0	0	0	0	0	0
9/1/2024 21:55	55101	WERT_T1	0	0	0	0	0	0	-1.89	-1.97	3	3	0	2400	2400	0
9/1/2024 21:55	57304	MOAL_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
9/1/2024 21:55	41902	REED_T1	0	0	0	0	0	0	0.25	0.24	1	1	0	900	900	0
9/1/2024 21:55	57104	SPHI_T2	0	0	0	0	0	0	-1.34	-1.43	1	1	0	900	900	0
9/1/2024 21:55	52403	GRPA_T2	1	1	0	0.7	0.8	0.1	-0.84	-0.83	0	0	0	0	0	0
9/1/2024 21:55	49803	UNIV_T1	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
9/1/2024 21:55	57101	SPHI_T2	0	6	6	0	0.63	0.63	0	0	0	0	0	0	0	0
9/1/2024 21:55	57303	MOAL_T2	1	1	0	7.7	7.8	0.1	0	0	0	0	0	0	0	0
9/1/2024 21:55	52402	GRPA_T2	1	1	0	0.5	0.3	-0.2	-0.55	-0.56	0	0	0	0	0	0
9/1/2024 21:56	52004	LING_T2	2	2	0	4.75	4.9	0.15	0	0	0	0	0	0	0	0
9/1/2024 21:56	52002	LING_T2	0	0	0	0	0	0	-0.36	-0.41	0	0	0	0	0	0
9/1/2024 21:56	55101	WERT_T1	0	0	0	0	0	0	-1.89	-1.97	3	3	0	2400	2400	0
9/1/2024 21:56	57403	SPAN_T1	0	20	20	0	0.26	0.26	0	0	0	0	0	0	0	0
9/1/2024 21:56	57401	SPAN_T1	0	0	0	0	0	0	-0.77	-0.99	1	1	0	600	600	0
9/1/2024 21:57	55002	NEWP_T1	3	5	2	0.63	0.78	0.15	0	0	0	0	0	0	0	0
9/1/2024 21:57	55001	NEWP_T1	0	0	0	0	0	0	-0.62	-0.66	1	1	0	600	600	0
9/1/2024 21:57	44905	SCOT_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
9/1/2024 21:57	53802	MBRG_T2	0	0	0	0	0	0	-0.02	0.04	0	0	0	0	0	0
9/1/2024 22:03	52002	LING_T2	0	0	0	0	0	0	-0.36	-0.41	0	0	0	0	0	0
9/1/2024 22:03	52004	LING_T2	2	2	0	4.75	4.9	0.15	0	0	0	0	0	0	0	0
9/1/2024 22:06	51904	COPA_T1	5	5	0	0.34	0.44	0.1	-1.43	-1.43	2	2	0	1200	1200	0
9/1/2024 22:07	52202	DEVO_T2	0	0	0	0	0	0	-1.81	-1.83	0	0	0	0	0	0
9/1/2024 22:07	52204	DEVO_T2	3	3	0	0.17	0.2	0.03	0	0	0	0	0	0	0	0
9/1/2024 22:08	14702	TREX_T2	0	0	0	0	0	0	0.8	0.77	0	0	0	0	0	0
9/1/2024 22:24	52202	DEVO_T2	0	0	0	0	0	0	-0.92	-0.96	0	0	0	0	0	0
9/1/2024 22:24	52204	DEVO_T2	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
9/1/2024 22:29	56501	ROCK_T2	1	0	-1	0.1	0	-0.1	-0.89	-0.95	0	0	0	0	0	0
9/1/2024 22:46	56501	ROCK_T2	0	2	2	0	0.2	0.2	-0.95	-0.97	0	0	0	0	0	0
9/1/2024 23:05	53901	HALI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/1/2024 23:05	53902	HALI_T2	1	1	0	4.8	5.7	0.9	-0.8	-0.82	0	0	0	0	0	0
9/1/2024 23:05	53903	HALI_T2	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
9/1/2024 23:20	56501	ROCK_T2	0	2	2	0	0.35	0.35	-0.99	-1.04	0	0	0	0	0	0
9/1/2024 23:21	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/1/2024 23:22	61801	EELI_T2	1	0	-1	0.1	0	-0.1	0.12	0.12	0	0	0	0	0	0
9/1/2024 23:24	56501	ROCK_T2	0	2	2	0	0.35	0.35	-1.04	-1.06	0	0	0	0	0	0
9/1/2024 23:31	65901	SAKR_T2	1	1	0	7.5	7.5	0	-0.45	-0.45	1	1	0	600	600	0
9/1/2024 0:38	10801	CHHI_T1	0	0	0	0	0	0	-1.27	-1.33	2	2	0	1500	1500	0
9/2/2024 7:25	40502	CRES_T2	66	128	62	0.38	0.37	-0.01	-0.39	-0.36	0	0	0	0	0	0
9/2/2024 7:25	40501	CRES_T2	12	18	6	0.38	0.41	0.03	0	0	0	0	0	0	0	0
9/2/2024 7:34	46302	ROHR_T1	5	5	0	1.88	1.64	-0.24	0.17	0.18	0	0	0	0	0	0
9/2/2024 7:34	46301	ROHR_T1	32	35	3	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
9/2/2024 7:38	45901	AUBU_T1	474	511	37	0.61	0.68	0.07	0.31	0.32	0	0	0	0	0	0
9/2/2024 7:38	43108	SMIL_T2	3	3	0	0.67	0.2	-0.47	0	0	0	0	0	0	0	0
9/2/2024 7:38	45902	AUBU_T1	851	849	-2	1.12	1.16	0.04	0	0	0	0	0	0	0	0
9/2/2024 7:38	43105	SMIL_T2	24	14	-10	0.41	0.24	-0.17	0	0	0	0	0	0	0	0
9/2/2024 7:38	43102	SMIL_T2	8	6	-2	0.9	0.43	-0.47	0	0	0	0	0	0	0	0
9/2/2024 7:38	43103	SMIL_T2	22	14	-8	0.67	0.44	-0.23	0	0	0	0	0	0	0	0
9/2/2024 7:38	43106	SMIL_T2	0	0	0	0	0	0	-0.46	0.31	1	1	0	1200	1200	0
9/2/2024 7:39	45901	AUBU_T1	474	511	37	0.61	0.68	0.07	0.31	0.32	0	0	0	0	0	0
9/2/2024 7:39	45902	AUBU_T1	851	849	-2	1.12	1.16	0.04	0	0	0	0	0	0	0	0
9/2/2024 7:40	46004	BERW_T2	0	0	0	0	0	0	-0.63	-0.53	0	0	0	0	0	0
9/2/2024 7:42	29401	BELT_T1	16	0	-16	0.12	0	-0.12	0	0	1	0	-1	900	0	-900
9/2/2024 7:42	29402	BELT_T1	1	1	0	8.7	8.4	-0.3	0	0	0	0	0	0	0	0
9/2/2024 7:43	63501	HEID_TBK1-2	30	23	-7	0.52	0.5	-0.02	0.01	0.03	1	1	0	900	900	0
9/2/2024 7:43	21504	CEAV_T1	0	0	0	0	0	0	1.25	1.25	0	0	0	0	0	0
9/2/2024 7:52	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/2/2024 7:53	49804	UNIV_T1	2	2	0	0.8	0.35	-0.45	0.54	0.56	0	0	0	0	0	0
9/2/2024 7:53	49803	UNIV_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
9/2/2024 7:53	43102	SMIL_T2	6	3	-3	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
9/2/2024 7:53	43105	SMIL_T2	14	2	-12	0.24	0.1	-0.14	0	0	0	0	0	0	0	0
9/2/2024 7:53	43103	SMIL_T2	14	4	-10	0.44	0.55	0.11	0	0	0	0	0	0	0	0
9/2/2024 7:53	43106	SMIL_T2	0	0	0	0	0	0	0.31	-0.39	1	1	0	1200	1200	0
9/2/2024 7:53	43108	SMIL_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/2/2024 7:54	43802	SWIL_T1	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
9/2/2024 7:54	43801	SWIL_T1	29	8	-21	0.39	0.88	0.49	0	0	0	0	0	0	0	0
9/2/2024 7:55	21501	CEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 7:55	44801	EDAN_T2	28	77	49	0.18	0.42	0.24	-1.63	-1.61	0	0	0	0	0	0
9/2/2024 7:58	54201	PENN_T1	7	10	3	1.17	1.13	-0.04	-0.82	0	0	0	0	0	0	0
9/2/2024 7:58	54203	PENN_T1	18	18	0	0.92	1.43	0.51	0	0	0	0	0	0	0	0
9/2/2024 8:00	50107	HARR_T3	1	1	0	6.3	5.9	-0.4	0	0	0	0	0	0	0	0
9/2/2024 8:00	44801	EDAN_T2	41	89	48	0.22	0.41	0.19	-1.63	-1.61	0	0	0	0	0	0
9/2/2024 8:00	50105	HARR_T3	6	6	0	6.78	6.37	-0.41	0	0	0	0	0	0	0	0
9/2/2024 8:00	40101	HUNT_T2	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
9/2/2024 8:00	50201	HARR_T3	1	1	0	0.5	0.6	0.1	-0.84	-0.85	1	1	0	1200	1200	0
9/2/2024 8:00	50103	HARR_T3	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
9/2/2024 8:02	64201	KINZ_T1	1	1	0	0.1	0.6	0.5	-0.22	-0.17	1	1	0	900	900	0
9/2/2024 8:02	64204	KINZ_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/2/2024 8:03	15603	NSTR_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
9/2/2024 8:03	55002	NEWP_T1	6	6	0	1.03	0.78	-0.25	-0.15	-0.18	0	0	0	0	0	0
9/2/2024 8:04	65503	MOJO_T2	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
9/2/2024 8:04	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 8:04	43202	MVIL_T2	61	74	13	0.53	0.9	0.37	-0.59	-0.58	0	0	0	0	0	0
9/2/2024 8:04	43201	MVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 8:07	43504	WWIL_T1	3	11	8	0.13	0.35	0.22	0.72	0.71	0	0	0	0	0	0
9/2/2024 8:07	55002	NEWP_T1	6	6	0	1.03	0.78	-0.25	-0.18	-0.14	0	0	0	0	0	0
9/2/2024 8:07	43505	WWIL_T1	1	1	0	2	2.4	0.4	0	0	0	0	0	0	0	0
9/2/2024 8:07	43506	WWIL_T1	1	5	4	1.5	0.5	-1	0	0	0	0	0	0	0	0
9/2/2024 8:08	59102	WALK_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
9/2/2024 8:08	59101	WALK_T2	0	0	0	0	0	0	-0.18	-0.23	0	0	0	0	0	0
9/2/2024 8:12	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 8:13	62601	ENGL_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
9/2/2024 8:13	61001	DONV_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
9/2/2024 8:13	46206	DANV_T2	0	0	0	0	0	0	-0.33	-0.33	1	1	0	1200	1200	0
9/2/2024 8:13	46203	DANV_T2	1	1	0	9	8	-1	0	0	0	0	0	0	0	0
9/2/2024 8:14	46203	DANV_T2	1	1	0	9	8	-1	0	0	0	0	0	0	0	0
9/2/2024 8:14	46206	DANV_T2	0	0	0	0	0	0	-0.33	-0.33	1	1	0	1200	1200	0
9/2/2024 8:15	59202	THOM_T1	167	185	18	0.18	0.21	0.03	0	0	0	0	0	0	0	0
9/2/2024 8:15	63501	HEID_TBK1-2	38	48	10	0.69	0.47	-0.22	-0.01	0	1	1	0	900	900	0
9/2/2024 8:15	59201	THOM_T1	12	22	10	0.23	0.3	0.07	0	0	0	0	0	0	0	0
9/2/2024 8:16	47802	MOCA_T2	6	8	2	0.2	0.21	0.01	0.44	0.5	0	0	0	0	0	0
9/2/2024 8:16	59202	THOM_T1	167	185	18	0.18	0.21	0.03	0	0	0	0	0	0	0	0
9/2/2024 8:16	59201	THOM_T1	12	22	10	0.23	0.3	0.07	0	0	0	0	0	0	0	0
9/2/2024 8:16	63501	HEID_TBK1-2	38	48	10	0.69	0.47	-0.22	-0.01	0	1	1	0	900	900	0
9/2/2024 8:17	60502	NMAN_T2	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
9/2/2024 8:17	60501	NMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 8:18	16301	ALPA_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
9/2/2024 8:18	55508	HERS_T2	2	2	0	1.3	1.2	-0.1	-2.51	-2.46	1	1	0	1200	1200	0
9/2/2024 8:19	60502	NMAN_T2	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
9/2/2024 8:19	60501	NMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 8:20	16301	ALPA_T1	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
9/2/2024 8:20	64101	REFR_T1	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
9/2/2024 8:21	15204	SFAR_T2	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
9/2/2024 8:21	16301	ALPA_T1	0	0	0	0	0	0	0.1	0.15	0	0	0	0	0	0
9/2/2024 8:21	15203	SFAR_T2	39	36	-3	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
9/2/2024 8:21	65601	QVIL_T2	0	0	0	0	0	0	-0.96	-0.96	1	1	0	900	900	0
9/2/2024 8:22	15203	SFAR_T2	39	36	-3	0.15	0.12	-0.03	-1.15	-1.11	0	0	0	0	0	0
9/2/2024 8:22	16301	ALPA_T1	0	0	0	0	0	0	0.2	0.3	0	0	0	0	0	0
9/2/2024 8:23	42201	SHEN_T2	3	2	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/2/2024 8:23	64101	REFR_T1	0	0	0	0	0	0	0.77	0.81	0	0	0	0	0	0
9/2/2024 8:23	42204	SHEN_T2	0	0	0	0	0	0	-0.63	-0.61	1	1	0	1200	1200	0
9/2/2024 8:24	59102	WALK_T2	3	5	2	0.27	0.34	0.07	0.43	0.43	0	0	0	0	0	0
9/2/2024 8:24	57006	WHHI_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
9/2/2024 8:24	64101	REFR_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
9/2/2024 8:25	57006	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 8:26	54206	PENN_T2	0	0	0	0	0	0	0.28	0.23	0	0	0	0	0	0
9/2/2024 8:26	54202	PENN_T2	0	0	0	0	0	0	0.18	0.25	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/2/2024 8:27	59102	WALK_T2	3	5	2	0.27	0.34	0.07	0	0	0	0	0	0	0	0
9/2/2024 8:27	59101	WALK_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
9/2/2024 8:27	11301	EMMA_T1	0	0	0	0	0	0	-0.68	-0.73	0	0	0	0	0	0
9/2/2024 8:27	16004	DORN_T1	0	0	0	0	0	0	-0.94	-0.82	1	1	0	1200	1200	0
9/2/2024 8:28	50107	HARR_T3	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
9/2/2024 8:28	50105	HARR_T3	6	6	0	6.37	6.47	0.1	0	0	0	0	0	0	0	0
9/2/2024 8:28	50103	HARR_T3	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/2/2024 8:28	61801	EELI_T2	0	0	0	0	0	0	0.05	0.09	0	0	0	0	0	0
9/2/2024 8:28	16004	DORN_T1	0	0	0	0	0	0	-0.94	-0.82	1	1	0	1200	1200	0
9/2/2024 8:28	50201	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/2/2024 8:32	54506	ENOL_T2	0	0	0	0	0	0	0.24	0.14	1	1	0	600	600	0
9/2/2024 8:32	54505	ENOL_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
9/2/2024 8:32	64201	KINZ_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
9/2/2024 8:32	64203	KINZ_T1	0	0	0	0	0	0	-0.07	-0.09	1	1	0	600	600	0
9/2/2024 8:32	64204	KINZ_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
9/2/2024 8:33	65603	QVIL_T2	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
9/2/2024 8:34	47101	MARL_T1	0	0	0	0	0	0	-0.27	-0.2	0	0	0	0	0	0
9/2/2024 8:35	47101	MARL_T1	0	0	0	0	0	0	-0.27	-0.2	0	0	0	0	0	0
9/2/2024 8:35	15203	SFAR_T2	16	95	79	0.1	0.16	0.06	-1.15	-1.11	0	0	0	0	0	0
9/2/2024 8:36	43202	MVIL_T2	64	61	-3	0.84	0.51	-0.33	-0.56	-0.54	0	0	0	0	0	0
9/2/2024 8:36	58202	NEWV_T1	3	0	-3	0.33	0	-0.33	0.23	0.36	0	0	0	0	0	0
9/2/2024 8:37	15203	SFAR_T2	16	95	79	0.1	0.16	0.06	-1.11	-1.09	0	0	0	0	0	0
9/2/2024 8:38	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
9/2/2024 8:38	15703	TANN_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
9/2/2024 8:39	42501	ALTA_T2	0	0	0	0	0	0	-1.12	-1.14	1	1	0	600	600	0
9/2/2024 8:39	15203	SFAR_T2	16	95	79	0.1	0.16	0.06	-2.22	-2.18	0	0	0	0	0	0
9/2/2024 8:40	44301	BEAV_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
9/2/2024 8:40	44302	BEAV_T2	0	2	2	0	0.1	0.1	0.29	0.29	0	0	0	0	0	0
9/2/2024 8:40	46302	ROHR_T1	8	5	-3	1.08	1.88	0.8	0.23	0.25	0	0	0	0	0	0
9/2/2024 8:40	46301	ROHR_T1	163	147	-16	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
9/2/2024 8:41	20401	ASHF_T2	2	9	7	0.15	0.52	0.37	0	0	0	0	0	0	0	0
9/2/2024 8:41	44302	BEAV_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 8:41	20403	ASHF_T2	1	1	0	0.2	1.2	1	0.27	0.3	0	0	0	0	0	0
9/2/2024 8:41	42501	ALTA_T2	0	0	0	0	0	0	-1.12	-1.14	1	1	0	600	600	0
9/2/2024 8:41	44301	BEAV_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
9/2/2024 8:43	12006	HATF_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
9/2/2024 8:43	12005	HATF_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/2/2024 8:43	44301	BEAV_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
9/2/2024 8:43	44302	BEAV_T2	0	2	2	0	0.1	0.1	0.29	0.29	0	0	0	0	0	0
9/2/2024 8:44	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 8:44	62106	ELAN_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
9/2/2024 8:44	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 8:45	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 8:46	64503	LAVI_T1	0	0	0	0	0	0	-0.6	-0.55	1	1	0	1200	1200	0
9/2/2024 8:46	46101	MACI_T2	0	0	0	0	0	0	0.84	0.8	0	0	0	0	0	0
9/2/2024 8:47	64503	LAVI_T1	0	0	0	0	0	0	-0.6	-0.55	1	1	0	1200	1200	0
9/2/2024 8:48	64503	LAVI_T1	0	0	0	0	0	0	-0.6	-0.55	1	1	0	1200	1200	0
9/2/2024 8:48	65502	MOJO_T2	0	0	0	0	0	0	-0.66	-0.69	0	0	0	0	0	0
9/2/2024 8:49	64503	LAVI_T1	0	0	0	0	0	0	-0.6	-0.55	1	1	0	1200	1200	0
9/2/2024 8:51	65604	QVIL_T2	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
9/2/2024 8:52	17002	RIRO_T2	15	168	153	0.14	0.17	0.03	0.42	0.46	0	0	0	0	0	0
9/2/2024 8:54	11801	FRAN_T2	0	0	0	0	0	0	-0.23	-0.14	0	0	0	0	0	0
9/2/2024 8:55	67503	WEWI_T2	1	1	0	8	8	0	0.05	-0.03	0	0	0	0	0	0
9/2/2024 8:55	61101	BERK_T5	0	0	0	0	0	0	-1.29	-1.24	0	0	0	0	0	0
9/2/2024 8:55	14801	TREI_T2	0	3	3	0	0.3	0.3	1.31	1.23	0	0	0	0	0	0
9/2/2024 8:55	14802	TREI_T2	0	6	6	0	0.17	0.17	0	0	0	0	0	0	0	0
9/2/2024 8:56	20403	ASHF_T2	0	1	1	0	1.2	1.2	0.3	0.3	0	0	0	0	0	0
9/2/2024 8:56	61101	BERK_T5	0	0	0	0	0	0	-1.29	-1.24	0	0	0	0	0	0
9/2/2024 8:56	42501	ALTA_T2	0	0	0	0	0	0	-2.27	-2.14	2	2	0	1200	1200	0
9/2/2024 8:56	20401	ASHF_T2	3	11	8	0.4	0.48	0.08	0	0	0	0	0	0	0	0
9/2/2024 8:56	11801	FRAN_T2	0	0	0	0	0	0	-0.23	-0.14	0	0	0	0	0	0
9/2/2024 8:57	20403	ASHF_T2	0	1	1	0	1.2	1.2	0.3	0.3	0	0	0	0	0	0
9/2/2024 8:57	61103	BERK_T5	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
9/2/2024 8:57	20401	ASHF_T2	3	11	8	0.4	0.48	0.08	0	0	0	0	0	0	0	0
9/2/2024 8:58	61103	BERK_T5	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
9/2/2024 8:59	63404	HONY_T1	11	7	-4	0.14	0.11	-0.03	0	0	0	0	0	0	0	0
9/2/2024 8:59	63401	HONY_T1	0	0	0	0	0	0	-0.53	-0.56	1	1	0	600	600	0
9/2/2024 9:00	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 9:01	63404	HONY_T1	6	1	-5	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/2/2024 9:01	63401	HONY_T1	0	0	0	0	0	0	-0.53	-0.56	1	1	0	600	600	0
9/2/2024 9:03	46506	LOHA_T1	3	3	0	4.97	4.8	-0.17	0	0	0	0	0	0	0	0
9/2/2024 9:03	46504	LOHA_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
9/2/2024 9:03	46503	LOHA_T1	0	0	0	0	0	0	-1.18	-1.16	0	0	0	0	0	0
9/2/2024 9:04	64101	REDR_T1	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
9/2/2024 9:05	14303	SUMN_T1	3	3	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
9/2/2024 9:05	14308	SUMN_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
9/2/2024 9:06	14702	TREX_T2	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
9/2/2024 9:07	43801	SWIL_T1	2	2	0	3.2	3.2	0	0	0	0	0	0	0	0	0
9/2/2024 9:07	43802	SWIL_T1	0	0	0	0	0	0	0.75	0.78	0	0	0	0	0	0
9/2/2024 9:07	15204	SFAR_T2	0	1	1	0	0.1	0.1	0.08	0.12	0	0	0	0	0	0
9/2/2024 9:07	15203	SFAR_T2	94	3	-91	0.16	0.27	0.11	0	0	0	0	0	0	0	0
9/2/2024 9:08	67804	WLAN_T1	0	1	1	0	0.2	0.2	-0.95	-0.93	0	0	0	0	0	0
9/2/2024 9:08	67805	WLAN_T1	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
9/2/2024 9:08	42201	SHEN_T2	0	2	2	0	0.15	0.15	0.49	0.5	0	0	0	0	0	0
9/2/2024 9:09	45901	AUBU_T1	407	339	-68	0.63	0.63	0	0	0	0	0	0	0	0	0
9/2/2024 9:09	67805	WLAN_T1	0	6	6	0	0.12	0.12	-1.24	-1.24	0	0	0	0	0	0
9/2/2024 9:09	67804	WLAN_T1	0	1	1	0	0.2	0.2	-0.95	-0.93	0	0	0	0	0	0
9/2/2024 9:09	45902	AUBU_T1	771	747	-24	0.91	1	0.09	-0.61	-0.61	0	0	0	0	0	0
9/2/2024 9:10	57403	SPAN_T1	10	8	-2	0.25	0.14	-0.11	0.12	0.12	0	0	0	0	0	0
9/2/2024 9:10	15204	SFAR_T2	0	1	1	0	0.1	0.1	0.08	0.12	0	0	0	0	0	0
9/2/2024 9:10	57401	SPAN_T1	3	4	1	1.6	0.17	-1.43	0	0	0	0	0	0	0	0
9/2/2024 9:10	15203	SFAR_T2	94	3	-91	0.16	0.27	0.11	-1.09	-1.02	0	0	0	0	0	0
9/2/2024 9:10	14702	TREX_T2	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
9/2/2024 9:11	53601	DALM_T2	0	1	1	0	0.6	0.6	-0.02	-0.05	0	0	0	0	0	0
9/2/2024 9:11	67805	WLAN_T1	0	6	6	0	0.12	0.12	-1.24	-1.24	0	0	0	0	0	0
9/2/2024 9:11	67804	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/2/2024 9:12	67804	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/2/2024 9:12	67803	WLAN_T1	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
9/2/2024 9:12	43302	WATS_T2	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
9/2/2024 9:12	43301	WATS_T2	1	1	0	0.1	1	0.9	-0.5	-0.47	1	1	0	900	900	0
9/2/2024 9:12	67805	WLAN_T1	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
9/2/2024 9:13	46001	BERW_T1	0	0	0	0	0	0	0.65	0.69	0	0	0	0	0	0
9/2/2024 9:13	45802	HEGI_T2	1	1	0	0.3	0	-0.3	1.09	1.13	0	0	0	0	0	0
9/2/2024 9:14	45802	HEGI_T2	1	1	0	0.3	0	-0.3	1.09	1.13	0	0	0	0	0	0
9/2/2024 9:14	46004	BERW_T2	0	0	0	0	0	0	-0.44	-0.36	0	0	0	0	0	0
9/2/2024 9:14	22904	HARW_T1	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
9/2/2024 9:15	HEID_TBK1-2	HEID_TBK1-2	23	48	25	0.81	0.48	-0.33	0.14	0.05	1	1	0	900	900	0
9/2/2024 9:17	63501	HEID_TBK1-2	23	48	25	0.81	0.48	-0.33	0.14	0.05	1	1	0	900	900	0
9/2/2024 9:17	66902	SHIL_T2	24	5	-19	0.16	0.18	0.02	0	0	0	0	0	0	0	0
9/2/2024 9:17	66903	SHIL_T2	2	1	-1	0.3	0.5	0.2	-0.71	-0.68	0	0	0	0	0	0
9/2/2024 9:17	64503	LAVI_T1	0	0	0	0	0	0	-0.51	-0.52	1	1	0	1200	1200	0
9/2/2024 9:17	66901	SHIL_T2	36	5	-31	0.16	0.3	0.14	0	0	0	0	0	0	0	0
9/2/2024 9:18	50502	MECH_T1	2	1	-1	1.9	2.1	0.2	-0.3	-0.29	0	0	0	0	0	0
9/2/2024 9:18	43201	MVIL_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
9/2/2024 9:18	43202	MVIL_T2	61	44	-17	0.51	0.28	-0.23	-0.55	-0.53	0	0	0	0	0	0
9/2/2024 9:18	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 9:18	50501	MECH_T1	4	4	0	0.13	0.33	0.2	0	0	0	0	0	0	0	0
9/2/2024 9:19	43202	MVIL_T2	61	44	-17	0.51	0.28	-0.23	-0.55	-0.53	0	0	0	0	0	0
9/2/2024 9:20	40602	PIGR_T1	1	1	0	1.2	1.2	0	0.83	0.87	0	0	0	0	0	0
9/2/2024 9:20	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 9:20	40601	PIGR_T1	2	4	2	0.15	0.25	0.1	0	0	0	0	0	0	0	0
9/2/2024 9:20	42903	MIDD_T2	2	2	0	1.2	1.3	0.1	-0.11	-0.08	0	0	0	0	0	0
9/2/2024 9:20	66504	SMAN_T2	0	0	0	0	0	0	-0.08	-0.03	0	0	0	0	0	0
9/2/2024 9:20	56501	ROCK_T2	1	2	1	1.7	1	-0.7	0.15	0.16	0	0	0	0	0	0
9/2/2024 9:22	56501	ROCK_T2	1	2	1	1.7	1	-0.7	0.16	0.21	0	0	0	0	0	0
9/2/2024 9:22	66504	SMAN_T2	0	0	0	0	0	0	-0.07	-0.19	0	0	0	0	0	0
9/2/2024 9:22	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 9:23	67502	WEWI_T2	0	1	1	0	0.1	0.1	-0.12	-0.17	0	0	0	0	0	0
9/2/2024 9:23	67503	WEWI_T2	1	1	0	8	7.6	-0.4	0	0	0	0	0	0	0	0
9/2/2024 9:24	57403	SPAN_T1	7	2	-5	0.14	0.15	0.01	0	0	0	0	0	0	0	0
9/2/2024 9:24	24801	VALM_T1	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
9/2/2024 9:24	57401	SPAN_T1	2	4	2	0.15	0.2	0.05	-1.57	-1.37	2	2	0	1200	1200	0
9/2/2024 9:25	29402	BELT_T1	0	87	87	0	0.5	0.5	0	0	0	0	0	0	0	0
9/2/2024 9:25	57401	SPAN_T1	2	4	2	0.15	0.2	0.05	-0.78	-0.69	1	1	0	600	600	0
9/2/2024 9:25	57403	SPAN_T1	7	2	-5	0.14	0.15	0.01	0	0	0	0	0	0	0	0
9/2/2024 9:25	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 9:25	20403	ASHF_T2	1	1	0	1	1	0	0.34	0.36	0	0	0	0	0	0
9/2/2024 9:25	20401	ASHF_T2	9	8	-1	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
9/2/2024 9:26	67203	TEHI_T1	0	1	1	0	5.8	5.8	1.16	1.13	1	1	0	900	900	0
9/2/2024 9:26	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 9:26	29402	BELT_T1	0	87	87	0	0.5	0.5	0	0	0	0	0	0	0	0
9/2/2024 9:27	53601	DALM_T2	1	1	0	0.2	0.6	0.4	-0.05	-0.01	0	0	0	0	0	0
9/2/2024 9:27	29402	BELT_T1	0	87	87	0	0.5	0.5	0	0	0	0	0	0	0	0
9/2/2024 9:28	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 9:28	11904	ETEX_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/2/2024 9:28	20403	ASHF_T2	1	1	0	1	1	0	0.34	0.36	0	0	0	0	0	0
9/2/2024 9:28	11901	ETEX_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
9/2/2024 9:28	20401	ASHF_T2	9	8	-1	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
9/2/2024 9:29	46802	HEPB_T1	1	1	0	0.3	0.5	0.2	-0.14	-0.13	0	0	0	0	0	0
9/2/2024 9:30	52004	LING_T2	2	3	1	5.6	3.7	-1.9	0.47	0.5	0	0	0	0	0	0
9/2/2024 9:30	63602	LETO_T1	0	1	1	0	0.4	0.4	-0.16	-0.14	0	0	0	0	0	0
9/2/2024 9:30	63601	LETO_T1	3	5	2	0.43	0.34	-0.09	0	0	0	0	0	0	0	0
9/2/2024 9:32	12801	MICK_T1	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
9/2/2024 9:32	63601	LETO_T1	3	5	2	0.43	0.34	-0.09	0.19	0.47	1	1	0	900	900	0
9/2/2024 9:32	63602	LETO_T1	0	1	1	0	0.4	0.4	-0.16	-0.14	0	0	0	0	0	0
9/2/2024 9:32	12807	MICK_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/2/2024 9:33	40101	HUNT_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
9/2/2024 9:34	63601	LETO_T1	3	5	2	0.43	0.34	-0.09	0.19	0.47	1	1	0	900	900	0
9/2/2024 9:34	63602	LETO_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/2/2024 9:35	55002	NEWP_T1	7	9	2	0.83	0.81	-0.02	-0.1	-0.1	0	0	0	0	0	0
9/2/2024 9:35	13503	MCMI_T2	1	1	0	0.9	1	0.1	-0.01	-0.01	0	0	0	0	0	0
9/2/2024 9:36	23102	MOSC_T2	0	0	0	0	0	0	-0.62	-0.49	2	2	0	1800	1800	0
9/2/2024 9:38	45902	AUBU_T1	703	585	-118	0.84	0.82	-0.02	-0.55	-0.54	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/2/2024 9:38	45901	AUBU_T1	307	268	-39	0.57	0.54	-0.03	0	0	0	0	0	0	0	0
9/2/2024 9:39	45902	AUBU_T1	703	585	-118	0.84	0.82	-0.02	-1.09	-1.08	0	0	0	0	0	0
9/2/2024 9:39	42201	SHEN_T2	0	0	0	0	0	0	0.5	0.54	0	0	0	0	0	0
9/2/2024 9:39	45901	AUBU_T1	307	268	-39	0.57	0.54	-0.03	0	0	0	0	0	0	0	0
9/2/2024 9:40	60801	BUCK_T1	10	3	-7	0.23	0.27	0.04	-0.15	-0.13	0	0	0	0	0	0
9/2/2024 9:40	60803	BUCK_T1	12	3	-9	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/2/2024 9:42	16103	BING_T2	0	0	0	0	0	0	-1.4	-1.37	1	1	0	900	900	0
9/2/2024 9:42	48302	ORWI_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
9/2/2024 9:43	53601	DALM_T2	1	1	0	0.6	1.1	0.5	-0.01	-0.05	0	0	0	0	0	0
9/2/2024 9:46	20603	GRWO_T2	4	6	2	0.48	0.47	-0.01	0.49	0.53	0	0	0	0	0	0
9/2/2024 9:46	64305	LINC_T1	0	1	1	0	0	0	-0.08	-0.04	0	0	0	0	0	0
9/2/2024 9:46	57403	SPAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/2/2024 9:46	57401	SPAN_T1	1	3	2	4	0.15	-3.85	-0.69	-0.7	1	1	0	600	600	0
9/2/2024 9:48	54206	PENN_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
9/2/2024 9:50	54203	PENN_T1	18	18	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
9/2/2024 9:50	54201	PENN_T1	10	11	1	0.93	0.74	-0.19	0.05	0.12	0	0	0	0	0	0
9/2/2024 9:50	22701	MINO_T1	0	0	0	0	0	0	-0.18	-0.27	0	0	0	0	0	0
9/2/2024 9:51	42601	TUSC_T1	0	0	0	0	0	0	0.22	0.17	2	2	0	1800	1800	0
9/2/2024 9:51	54206	PENN_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
9/2/2024 9:51	50701	SMEC_T1	0	6	6	0	0.25	0.25	-0.54	-0.47	0	0	0	0	0	0
9/2/2024 9:52	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0.43	0.58	3	2	-1	1700	1500	-200
9/2/2024 9:52	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/2/2024 9:53	41902	REED_T1	0	0	0	0	0	0	0.88	0.91	0	0	0	0	0	0
9/2/2024 9:53	52004	LING_T2	3	3	0	3.63	3.87	0.24	0.53	0.54	0	0	0	0	0	0
9/2/2024 9:53	41901	REED_T1	9	9	0	0.38	0.49	0.11	0	0	0	0	0	0	0	0
9/2/2024 9:53	42601	TUSC_T1	0	0	0	0	0	0	0.22	0.17	2	2	0	1800	1800	0
9/2/2024 9:53	56501	ROCK_T2	1	2	1	1.3	0.3	-1	0.21	0.23	0	0	0	0	0	0
9/2/2024 9:53	50701	SMEC_T1	0	6	6	0	0.25	0.25	-0.47	-0.43	0	0	0	0	0	0
9/2/2024 9:54	57403	SPAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/2/2024 9:54	42302	MOWR_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
9/2/2024 9:54	57401	SPAN_T1	1	3	2	4	0.15	-3.85	-0.7	-0.64	1	1	0	600	600	0
9/2/2024 9:55	56501	ROCK_T2	1	2	1	1.3	0.3	-1	0.21	0.23	0	0	0	0	0	0
9/2/2024 9:55	42801	SELI_T1	0	0	0	0	0	0	-1.17	-1.15	1	1	0	1200	1200	0
9/2/2024 9:56	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 9:57	16101	BING_T2	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
9/2/2024 9:57	61803	EELI_T2	0	0	0	0	0	0	0.42	0.39	1	1	0	600	600	0
9/2/2024 9:58	56501	ROCK_T2	1	2	1	1.3	0.3	-1	0.21	0.23	0	0	0	0	0	0
9/2/2024 9:58	61001	DONV_T1	1	1	0	0.5	0.8	0.3	0.14	0.27	0	0	0	0	0	0
9/2/2024 10:00	52102	MEIS_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/2/2024 10:00	57403	SPAN_T1	0	11	11	0	0.2	0.2	0	0	0	0	0	0	0	0
9/2/2024 10:00	64503	LAVI_T1	0	0	0	0	0	0	-2.42	-2.08	4	4	0	4800	4800	0
9/2/2024 10:00	63804	HEMP_T1	1	1	0	5.5	5.6	0.1	-0.07	0.02	0	0	0	0	0	0
9/2/2024 10:00	57401	SPAN_T1	0	5	5	0	0.92	0.92	-0.7	-0.64	1	1	0	600	600	0
9/2/2024 10:00	63402	HONY_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 10:00	54001	SOLE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 10:00	64501	LAVI_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/2/2024 10:00	63403	HONY_T2	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
9/2/2024 10:00	41901	REED_T1	9	9	0	0.49	0.4	-0.09	0	0	0	0	0	0	0	0
9/2/2024 10:00	52403	GRPA_T2	3	8	5	0.87	0.48	-0.39	0.05	0.01	0	0	0	0	0	0
9/2/2024 10:00	59002	MIFF_T1	6	6	0	0.55	0.85	0.3	0	0	0	0	0	0	0	0
9/2/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.85	-0.83	0	0	0	0	0	0
9/2/2024 10:00	41902	REED_T1	0	0	0	0	0	0	0.88	0.91	0	0	0	0	0	0
9/2/2024 10:00	47802	MOCA_T2	8	8	0	0.4	0.3	-0.1	0.6	0.54	0	0	0	0	0	0
9/2/2024 10:00	56501	ROCK_T2	2	1	-1	0.2	1	0.8	0.21	0.23	0	0	0	0	0	0
9/2/2024 10:00	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 10:00	47104	MARL_T1	0	0	0	0	0	0	-0.73	-0.69	0	0	0	0	0	0
9/2/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.74	0.76	0	0	0	0	0	0
9/2/2024 10:00	59001	MIFF_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/2/2024 10:00	65604	QVIL_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
9/2/2024 10:00	65601	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 10:00	15601	NSTR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 10:00	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
9/2/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.07	0.2	0	0	0	0	0	0
9/2/2024 10:00	59003	MIFF_T1	0	1	1	0	0.1	0.1	0.48	0.49	0	0	0	0	0	0
9/2/2024 10:00	15603	NSTR_T2	0	1	1	0	0.1	0.1	-0.23	-0.23	0	0	0	0	0	0
9/2/2024 10:00	61701	ELIZ_T1	2	2	0	1.9	2	0.1	1.85	1.78	0	0	0	0	0	0
9/2/2024 10:00	52402	GRPA_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
9/2/2024 10:00	47101	MARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/2/2024 10:00	24801	VALM_T1	0	2	2	0	0.2	0.2	-0.28	-0.27	0	0	0	0	0	0
9/2/2024 10:05	47102	MARL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 10:05	47103	MARL_T2	2	2	0	0.3	0.4	0.1	-0.42	-0.42	0	0	0	0	0	0
9/2/2024 10:06	40801	EXCH_T2	2	3	1	0.3	0.3	0	-0.33	-0.33	1	1	0	1200	1200	0
9/2/2024 10:06	40802	EXCH_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
9/2/2024 10:07	66502	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/2/2024 10:07	66505	SMAN_T2	0	0	0	0	0	0	0.58	0.6	2	2	0	1500	1500	0
9/2/2024 10:07	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 10:08	41901	REED_T1	9	9	0	0.49	0.4	-0.09	0	0	0	0	0	0	0	0
9/2/2024 10:08	67502	WEWI_T2	0	6	6	0	0.5	0.5	0	0	0	0	0	0	0	0
9/2/2024 10:08	67503	WEWI_T2	1	1	0	7.3	7.5	0.2	0.12	0.12	0	0	0	0	0	0
9/2/2024 10:08	56501	ROCK_T2	2	1	-1	0.2	1	0.8	0.23	0.25	0	0	0	0	0	0
9/2/2024 10:08	41902	REED_T1	0	0	0	0	0	0	0.91	0.99	0	0	0	0	0	0
9/2/2024 10:08	67203	TEHI_T1	0	0	0	0	0	0	1.19	1.13	1	1	0	900	900	0
9/2/2024 10:08	14801	TREI_T2	1	2	1	0.3	0.2	-0.1	0.72	0.69	0	0	0	0	0	0
9/2/2024 10:09	56501	ROCK_T2	2	1	-1	0.2	1	0.8	0.23	0.25	0	0	0	0	0	0
9/2/2024 10:09	67804	WLAN_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/2/2024 10:09	43801	SWIL_T1	2	2	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
9/2/2024 10:09	67502	WEWI_T2	0	6	6	0	0.5	0.5	0	0	0	0	0	0	0	0
9/2/2024 10:09	67805	WLAN_T1	0	0	0	0	0	0	-1.17	-1.19	0	0	0	0	0	0
9/2/2024 10:09	67503	WEWI_T2	1	1	0	7.3	7.5	0.2	0.12	0.12	0	0	0	0	0	0
9/2/2024 10:09	43802	SWIL_T1	0	0	0	0	0	0	0.82	0.83	0	0	0	0	0	0
9/2/2024 10:10	20401	ASHF_T2	6	7	1	0.42	0.53	0.11	0	0	0	0	0	0	0	0
9/2/2024 10:10	67503	WEWI_T2	1	1	0	7.3	7.5	0.2	0.12	0.12	0	0	0	0	0	0
9/2/2024 10:10	43801	SWIL_T1	2	2	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
9/2/2024 10:10	20403	ASHF_T2	0	0	0	0	0	0	1.19	1.36	0	0	0	0	0	0
9/2/2024 10:10	43802	SWIL_T1	0	0	0	0	0	0	0.82	0.83	0	0	0	0	0	0
9/2/2024 10:10	57403	SPAN_T1	0	11	11	0	0.2	0.2	0	0	0	0	0	0	0	0
9/2/2024 10:10	57401	SPAN_T1	0	5	5	0	0.92	0.92	-0.64	-0.64	1	1	0	600	600	0
9/2/2024 10:10	20402	ASHF_T2	0	6	6	0	0.5	0.5	0	0	0	0	0	0	0	0
9/2/2024 10:10	10801	CHHI_T1	0	0	0	0	0	0	-0.5	-0.47	1	1	0	900	900	0
9/2/2024 10:10	67804	WLAN_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/2/2024 10:10	67502	WEWI_T2	0	6	6	0	0.5	0.5	0	0	0	0	0	0	0	0
9/2/2024 10:10	67803	WLAN_T1	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
9/2/2024 10:11	25602	ARRO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 10:11	57401	SPAN_T1	0	5	5	0	0.92	0.92	-1.28	-1.29	2	2	0	1200	1200	0
9/2/2024 10:11	44801	EDAN_T2	19	38	19	0.23	0.25	0.02	-1.5	-1.5	0	0	0	0	0	0
9/2/2024 10:11	25603	ARRO_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
9/2/2024 10:11	15203	SFAR_T2	2	1	-1	0.3	0.4	0.1	-0.93	-0.89	0	0	0	0	0	0
9/2/2024 10:11	15204	SFAR_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
9/2/2024 10:11	57403	SPAN_T1	0	11	11	0	0.2	0.2	0	0	0	0	0	0	0	0
9/2/2024 10:12	12302	LANA_T2	0	0	0	0	0	0	-1.38	-1.37	2	2	0	1500	1500	0
9/2/2024 10:12	60801	BUCK_T1	1	3	2	0.4	0.33	-0.07	-0.11	-0.11	0	0	0	0	0	0
9/2/2024 10:12	44801	EDAN_T2	19	38	19	0.23	0.25	0.02	-1.5	-1.5	0	0	0	0	0	0
9/2/2024 10:12	60803	BUCK_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/2/2024 10:13	59202	THOM_T1	31	92	61	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
9/2/2024 10:13	16103	BING_T2	0	0	0	0	0	0	-1.37	-1.27	1	1	0	900	900	0
9/2/2024 10:13	59201	THOM_T1	8	13	5	0.38	0.31	-0.07	0	0	0	0	0	0	0	0
9/2/2024 10:13	61001	DONV_T1	1	1	0	0.8	0.6	-0.2	0.27	0.23	0	0	0	0	0	0
9/2/2024 10:13	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 10:13	16101	BING_T2	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
9/2/2024 10:14	29402	BELT_T1	65	43	-22	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
9/2/2024 10:14	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 10:14	44801	EDAN_T2	19	38	19	0.23	0.25	0.02	-1.5	-1.5	0	0	0	0	0	0
9/2/2024 10:15	59201	THOM_T1	11	7	-4	0.29	0.46	0.17	0	0	0	0	0	0	0	0
9/2/2024 10:15	59202	THOM_T1	87	63	-24	0.23	0.3	0.07	0	0	0	0	0	0	0	0
9/2/2024 10:15	29402	BELT_T1	27	43	16	0.62	0.51	-0.11	0	0	0	0	0	0	0	0
9/2/2024 10:15	63501	HEID_TBK1-2	40	47	7	0.61	0.57	-0.04	0.19	0.4	2	2	0	1800	1800	0
9/2/2024 10:16	59201	THOM_T1	11	7	-4	0.29	0.46	0.17	0	0	0	0	0	0	0	0
9/2/2024 10:16	40901	JESH_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
9/2/2024 10:16	59202	THOM_T1	87	63	-24	0.23	0.3	0.07	0	0	0	0	0	0	0	0
9/2/2024 10:16	40902	JESH_T1	0	0	0	0	0	0	-0.85	-0.88	0	0	0	0	0	0
9/2/2024 10:17	64203	KINZ_T1	0	0	0	0	0	0	0.22	0.12	1	1	0	600	600	0
9/2/2024 10:17	63401	HONY_T1	0	0	0	0	0	0	-0.6	-0.57	1	1	0	600	600	0
9/2/2024 10:17	59201	THOM_T1	11	7	-4	0.29	0.46	0.17	0	0	0	0	0	0	0	0
9/2/2024 10:17	64201	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/2/2024 10:17	59202	THOM_T1	87	63	-24	0.23	0.3	0.07	0	0	0	0	0	0	0	0
9/2/2024 10:17	63801	HEMP_T1	0	0	0	0	0	0	-0.88	-0.86	1	1	0	900	900	0
9/2/2024 10:17	63804	HEMP_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
9/2/2024 10:17	63501	HEID_TBK1-2	40	47	7	0.61	0.57	-0.04	0.1	0.2	1	1	0	900	900	0
9/2/2024 10:17	64204	KINZ_T1	12	8	-4	0.41	0.46	0.05	0	0	0	0	0	0	0	0
9/2/2024 10:18	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 10:18	52004	LING_T2	3	3	0	3.87	4	0.13	0.54	0.56	0	0	0	0	0	0
9/2/2024 10:18	64305	LINC_T1	1	1	0	0.2	0.2	0	-0.03	-0.01	0	0	0	0	0	0
9/2/2024 10:18	63501	HEID_TBK1-2	40	47	7	0.61	0.57	-0.04	0.1	0.2	1	1	0	900	900	0
9/2/2024 10:18	23102	MOSC_T2	0	0	0	0	0	0	-0.46	-0.53	2	2	0	1800	1800	0
9/2/2024 10:19	52004	LING_T2	3	3	0	3.87	4	0.13	0.54	0.56	0	0	0	0	0	0
9/2/2024 10:19	54202	PENN_T2	0	0	0	0	0	0	-0.62	-0.67	0	0	0	0	0	0
9/2/2024 10:19	58202	NEWV_T1	3	3	0	0.17	0.17	0	0.3	0.28	0	0	0	0	0	0
9/2/2024 10:20	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 10:20	66504	SMAN_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
9/2/2024 10:20	66502	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/2/2024 10:20	57205	ROSS_T1	1	1	0	0.5	0.8	0.3	0.45	0.46	0	0	0	0	0	0
9/2/2024 10:21	43202	MVIL_T2	47	62	15	0.29	0.55	0.26	-1.01	-0.97	0	0	0	0	0	0
9/2/2024 10:21	66502	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/2/2024 10:21	42201	SHEN_T2	0	0	0	0	0	0	0.54	0.58	0	0	0	0	0	0
9/2/2024 10:21	65205	PRIN_T1	1	3	2	1.9	0.7	-1.2	0	0	0	0	0	0	0	0
9/2/2024 10:21	14403	SSLA_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 10:21	14401	SSLA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 10:21	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 10:21	14402	SSLA_T1	4	4	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/2/2024 10:21	43201	MVIL_T2	0	1	1	0	0.6	0.6	-0.29	-0.29	0	0	0	0	0	0
9/2/2024 10:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 10:21	54202	PENN_T2	0	0	0	0	0	0	-0.62	-0.67	0	0	0	0	0	0
9/2/2024 10:21	58202	NEWV_T1	3	3	0	0.17	0.17	0	0.3	0.28	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/2/2024 10:21	14404	SSLA_T1	3	3	0	0.3	0.43	0.13	0.23	0.25	0	0	0	0	0	0
9/2/2024 10:22	44302	BEAV_T2	10	7	-3	0.48	0.61	0.13	0.36	0.36	0	0	0	0	0	0
9/2/2024 10:22	66502	SMAN_T2	1	0	-1	0.2	0	-0.2	0.38	0.34	0	0	0	0	0	0
9/2/2024 10:22	42601	TUSC_T1	0	0	0	0	0	0	0.16	0.18	2	2	0	1800	1800	0
9/2/2024 10:22	43202	MVIL_T2	47	62	15	0.29	0.55	0.26	-0.5	-0.49	0	0	0	0	0	0
9/2/2024 10:22	43201	MVIL_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/2/2024 10:22	44301	BEAV_T2	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
9/2/2024 10:22	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 10:23	66504	SMAN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/2/2024 10:23	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 10:23	44302	BEAV_T2	10	7	-3	0.48	0.61	0.13	0.36	0.36	0	0	0	0	0	0
9/2/2024 10:23	56501	ROCK_T2	1	1	0	1	0.6	-0.4	0.25	0.28	0	0	0	0	0	0
9/2/2024 10:23	44301	BEAV_T2	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
9/2/2024 10:23	66502	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/2/2024 10:24	67002	STHI_T2	0	0	0	0	0	0	0.93	0.92	0	0	0	0	0	0
9/2/2024 10:24	14404	SSLA_T1	3	3	0	0.3	0.43	0.13	0.23	0.25	0	0	0	0	0	0
9/2/2024 10:24	14401	SSLA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 10:24	67605	WARW_T1	1	2	1	0.2	0.2	0	-0.9	-0.87	0	0	0	0	0	0
9/2/2024 10:24	44301	BEAV_T2	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
9/2/2024 10:24	44302	BEAV_T2	10	7	-3	0.48	0.61	0.13	0.72	0.71	0	0	0	0	0	0
9/2/2024 10:24	14402	SSLA_T1	4	4	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/2/2024 10:24	14403	SSLA_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 10:25	44301	BEAV_T2	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
9/2/2024 10:25	50302	CEDA_T2	1	1	0	1	1.2	0.2	-0.04	0	1	1	0	1200	1200	0
9/2/2024 10:25	42601	TUSC_T1	0	0	0	0	0	0	0.33	0.37	4	4	0	3600	3600	0
9/2/2024 10:25	44802	EDAN_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
9/2/2024 10:25	44801	EDAN_T2	11	43	32	0.23	0.29	0.06	0	0	0	0	0	0	0	0
9/2/2024 10:25	67605	WARW_T1	1	2	1	0.2	0.2	0	-0.9	-0.87	0	0	0	0	0	0
9/2/2024 10:25	44302	BEAV_T2	10	7	-3	0.48	0.61	0.13	0.36	0.36	0	0	0	0	0	0
9/2/2024 10:25	50303	CEDA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 10:26	44801	EDAN_T2	11	43	32	0.23	0.29	0.06	0	0	0	0	0	0	0	0
9/2/2024 10:26	44802	EDAN_T2	0	0	0	0	0	0	-1.03	-0.99	0	0	0	0	0	0
9/2/2024 10:26	44301	BEAV_T2	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
9/2/2024 10:26	42201	SHEN_T2	0	0	0	0	0	0	0.54	0.58	0	0	0	0	0	0
9/2/2024 10:26	44302	BEAV_T2	10	7	-3	0.48	0.61	0.13	0	0	0	0	0	0	0	0
9/2/2024 10:27	21206	ECAR_T2	3	6	3	2.33	7.2	4.87	0	0	0	0	0	0	0	0
9/2/2024 10:27	21204	ECAR_T2	1	1	0	0	0	0	-0.58	-0.54	0	0	0	0	0	0
9/2/2024 10:27	46004	BERW_T2	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
9/2/2024 10:28	47001	HUGH_T2	3	4	1	8.23	6.28	-1.95	-0.48	-0.5	0	0	0	0	0	0
9/2/2024 10:28	44802	EDAN_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
9/2/2024 10:28	43201	MVIL_T2	0	1	1	0	0.6	0.6	-0.29	-0.29	0	0	0	0	0	0
9/2/2024 10:28	43202	MVIL_T2	47	62	15	0.29	0.55	0.26	0	0	0	0	0	0	0	0
9/2/2024 10:28	44801	EDAN_T2	11	43	32	0.23	0.29	0.06	0	0	0	0	0	0	0	0
9/2/2024 10:29	44802	EDAN_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
9/2/2024 10:29	67803	WLAN_T1	0	0	0	0	0	0	-0.64	-0.6	0	0	0	0	0	0
9/2/2024 10:29	56501	ROCK_T2	1	1	0	1	0.6	-0.4	0.25	0.28	0	0	0	0	0	0
9/2/2024 10:29	67804	WLAN_T1	0	4	4	0	0.27	0.27	0	0	0	0	0	0	0	0
9/2/2024 10:29	44801	EDAN_T2	11	43	32	0.23	0.29	0.06	0	0	0	0	0	0	0	0
9/2/2024 10:30	44802	EDAN_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
9/2/2024 10:30	25402	LAHA_T2	0	0	0	0	0	0	-0.36	-0.42	0	0	0	0	0	0
9/2/2024 10:30	44801	EDAN_T2	38	48	10	0.26	0.34	0.08	0	0	0	0	0	0	0	0
9/2/2024 10:30	40101	HUNT_T2	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
9/2/2024 10:30	63302	GREE_T1	0	0	0	0	0	0	0.73	0.63	0	0	0	0	0	0
9/2/2024 10:31	25501	MADI_T1	3	0	-3	0.73	0	-0.73	0	0	0	0	0	0	0	0
9/2/2024 10:31	25503	MADI_T1	2	2	0	0.2	0.3	0.1	-0.79	-0.8	0	0	0	0	0	0
9/2/2024 10:31	54202	PENN_T2	0	0	0	0	0	0	-0.67	-0.71	0	0	0	0	0	0
9/2/2024 10:32	40101	HUNT_T2	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
9/2/2024 10:32	22701	MINO_T1	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
9/2/2024 10:33	48301	ORWI_T1	2	2	0	4.7	4.5	-0.2	-0.45	-0.4	2	2	0	1800	1800	0
9/2/2024 10:34	47001	HUGH_T2	4	4	0	6.15	6.25	0.1	-0.48	-0.5	0	0	0	0	0	0
9/2/2024 10:34	58706	ROSE_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/2/2024 10:34	58705	ROSE_T2	5	5	0	2.14	1.9	-0.24	0	0	0	0	0	0	0	0
9/2/2024 10:34	58702	ROSE_T2	0	0	0	0	0	0	-1.23	-1.21	0	0	0	0	0	0
9/2/2024 10:35	67605	WARW_T1	0	2	2	0	0.45	0.45	-0.9	-0.87	0	0	0	0	0	0
9/2/2024 10:35	12801	MICK_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
9/2/2024 10:35	65001	NEFF_T2	0	0	0	0	0	0	-0.97	-0.92	1	1	0	1200	1200	0
9/2/2024 10:35	46301	ROHR_T1	219	215	-4	0.48	0.44	-0.04	0.32	0.34	0	0	0	0	0	0
9/2/2024 10:35	46302	ROHR_T1	8	10	2	1.24	1	-0.24	0.28	0.29	0	0	0	0	0	0
9/2/2024 10:36	42201	SHEN_T2	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
9/2/2024 10:37	64101	REFR_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
9/2/2024 10:37	46302	ROHR_T1	8	10	2	1.24	1	-0.24	0.29	0.3	0	0	0	0	0	0
9/2/2024 10:37	46301	ROHR_T1	219	215	-4	0.48	0.44	-0.04	0	0	0	0	0	0	0	0
9/2/2024 10:38	46301	ROHR_T1	219	215	-4	0.48	0.44	-0.04	0.34	0.32	0	0	0	0	0	0
9/2/2024 10:38	67605	WARW_T1	0	2	2	0	0.45	0.45	-0.87	-0.86	0	0	0	0	0	0
9/2/2024 10:38	44301	BEAV_T2	1	5	4	1.4	0.8	-0.6	-1.36	-1.36	2	2	0	1200	1200	0
9/2/2024 10:38	44302	BEAV_T2	6	9	3	0.7	0.51	-0.19	0	0	0	0	0	0	0	0
9/2/2024 10:38	20403	ASHF_T2	0	1	1	0	1.1	1.1	0.44	0.49	0	0	0	0	0	0
9/2/2024 10:38	64101	REFR_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
9/2/2024 10:38	20402	ASHF_T2	6	0	-6	0.8	0	-0.8	0	0	0	0	0	0	0	0
9/2/2024 10:38	20401	ASHF_T2	3	5	2	0.67	0.28	-0.39	0	0	0	0	0	0	0	0
9/2/2024 10:38	46302	ROHR_T1	8	10	2	1.24	1	-0.24	0	0	0	0	0	0	0	0
9/2/2024 10:38	42201	SHEN_T2	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
9/2/2024 10:39	42201	SHEN_T2	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
9/2/2024 10:40	59101	WALK_T2	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
9/2/2024 10:40	29402	BELT_T1	43	11	-32	0.51	1.11	0.6	0	0	0	0	0	0	0	0
9/2/2024 10:40	64101	REFR_T1	0	0	0	0	0	0	1.63	1.67	0	0	0	0	0	0
9/2/2024 10:40	59102	WALK_T2	3	2	-1	0.27	0.75	0.48	0	0	0	0	0	0	0	0
9/2/2024 10:40	67605	WARW_T1	0	2	2	0	0.45	0.45	-0.87	-0.86	0	0	0	0	0	0
9/2/2024 10:40	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 10:40	64602	LEOL_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
9/2/2024 10:41	45901	AUBU_T1	157	135	-22	0.52	0.48	-0.04	0.32	0.35	0	0	0	0	0	0
9/2/2024 10:41	45902	AUBU_T1	521	470	-51	0.65	0.51	-0.14	-0.99	-0.96	0	0	0	0	0	0
9/2/2024 10:41	53601	DALM_T2	1	1	0	0.7	0.7	0	0.02	0	0	0	0	0	0	0
9/2/2024 10:41	60101	COCA_T1	0	0	0	0	0	0	1.31	1.29	0	0	0	0	0	0
9/2/2024 10:42	20403	ASHF_T2	0	1	1	0	1.1	1.1	0.44	0.49	0	0	0	0	0	0
9/2/2024 10:42	20401	ASHF_T2	3	5	2	0.67	0.28	-0.39	0	0	0	0	0	0	0	0
9/2/2024 10:42	67603	WARW_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
9/2/2024 10:42	67605	WARW_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
9/2/2024 10:42	20402	ASHF_T2	6	0	-6	0.8	0	-0.8	0	0	0	0	0	0	0	0
9/2/2024 10:42	45902	AUBU_T1	521	470	-51	0.65	0.51	-0.14	-0.49	-0.48	0	0	0	0	0	0
9/2/2024 10:42	45901	AUBU_T1	157	135	-22	0.52	0.48	-0.04	0.32	0.35	0	0	0	0	0	0
9/2/2024 10:43	67605	WARW_T1	0	2	2	0	0.45	0.45	-0.87	-0.86	0	0	0	0	0	0
9/2/2024 10:43	48902	FOSP_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
9/2/2024 10:43	45902	AUBU_T1	521	470	-51	0.65	0.51	-0.14	-0.49	-0.48	0	0	0	0	0	0
9/2/2024 10:43	57104	SPHI_T2	0	0	0	0	0	0	-1.69	-1.67	1	1	0	900	900	0
9/2/2024 10:43	48901	FOSP_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/2/2024 10:43	57101	SPHI_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 10:43	45901	AUBU_T1	157	135	-22	0.52	0.48	-0.04	0	0	0	0	0	0	0	0
9/2/2024 10:43	57106	SPHI_T2	3	3	0	1.13	1.13	0	0	0	0	0	0	0	0	0
9/2/2024 10:43	21501	CEAV_T2	0	0	0	0	0	0	0	0	0	1	1	0	1200	1200
9/2/2024 10:43	29402	BELT_T1	43	11	-32	0.51	1.11	0.6	0	0	0	0	0	0	0	0
9/2/2024 10:44	40101	HUNT_T2	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
9/2/2024 10:44	48901	FOSP_T2	0	1	1	0	0.2	0.2	-0.34	-0.35	1	1	0	600	600	0
9/2/2024 10:44	45901	AUBU_T1	157	135	-22	0.52	0.48	-0.04	0	0	0	0	0	0	0	0
9/2/2024 10:44	48302	ORWI_T2	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/2/2024 10:44	67605	WARW_T1	0	2	2	0	0.45	0.45	-0.87	-0.86	0	0	0	0	0	0
9/2/2024 10:44	45902	AUBU_T1	521	470	-51	0.65	0.51	-0.14	-1.48	-1.44	0	0	0	0	0	0
9/2/2024 10:44	46803	HEPB_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
9/2/2024 10:45	45901	AUBU_T1	129	130	1	0.48	0.42	-0.06	0.32	0.35	0	0	0	0	0	0
9/2/2024 10:45	45902	AUBU_T1	439	458	19	0.48	0.5	0.02	0	0	0	0	0	0	0	0
9/2/2024 10:45	48901	FOSP_T2	0	1	1	0	0.3	0.3	-0.34	-0.35	1	1	0	600	600	0
9/2/2024 10:46	48901	FOSP_T2	0	1	1	0	0.3	0.3	-0.34	-0.35	1	1	0	600	600	0
9/2/2024 10:46	52004	LING_T2	3	3	0	3.93	3.97	0.04	0.56	0.5	0	0	0	0	0	0
9/2/2024 10:46	28702	HAML_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
9/2/2024 10:47	52402	GRPA_T2	2	2	0	0.45	0.3	-0.15	-0.49	-0.51	0	0	0	0	0	0
9/2/2024 10:47	45802	HEGI_T2	8	5	-3	0.41	0.2	-0.21	1.13	1.11	0	0	0	0	0	0
9/2/2024 10:47	52403	GRPA_T2	2	5	3	1.05	0.84	-0.21	0	0	0	0	0	0	0	0
9/2/2024 10:48	20603	GRWO_T2	0	1	1	0	0.1	0.1	0.58	0.59	0	0	0	0	0	0
9/2/2024 10:49	45802	HEGI_T2	8	5	-3	0.41	0.2	-0.21	1.13	1.11	0	0	0	0	0	0
9/2/2024 10:51	15702	TANN_T2	1	2	1	0.2	0.25	0.05	-0.26	-0.24	0	0	0	0	0	0
9/2/2024 10:51	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
9/2/2024 10:52	58705	ROSE_T2	5	5	0	1.88	1.8	-0.08	0	0	0	0	0	0	0	0
9/2/2024 10:52	58701	ROSE_T2	0	0	0	0	0	0	-1.27	-1.31	1	1	0	600	600	0
9/2/2024 10:52	13905	SEID_T1	0	0	0	0	0	0	-0.72	-0.71	1	1	0	1200	1200	0
9/2/2024 10:52	15702	TANN_T2	1	2	1	0.2	0.25	0.05	-0.24	-0.15	0	0	0	0	0	0
9/2/2024 10:52	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
9/2/2024 10:52	55002	NEWP_T1	7	9	2	0.76	0.74	-0.02	-0.08	-0.07	0	0	0	0	0	0
9/2/2024 10:52	58702	ROSE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 10:52	13904	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 10:52	58706	ROSE_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/2/2024 10:53	42802	SELI_T1	0	0	0	0	0	0	-0.92	-0.9	1	1	0	900	900	0
9/2/2024 10:53	64101	REFR_T1	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
9/2/2024 10:54	50701	SMEC_T1	5	6	1	0.7	0.58	-0.12	-0.25	-0.26	0	0	0	0	0	0
9/2/2024 10:54	41902	REED_T1	0	1	1	0	0.7	0.7	1.05	1.07	0	0	0	0	0	0
9/2/2024 10:54	41901	REED_T1	2	6	4	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/2/2024 10:54	14702	TREX_T2	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
9/2/2024 10:56	50701	SMEC_T1	5	6	1	0.7	0.58	-0.12	-0.25	-0.26	0	0	0	0	0	0
9/2/2024 10:56	64101	REFR_T1	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
9/2/2024 10:56	42802	SELI_T1	0	0	0	0	0	0	-1.83	-1.8	2	2	0	1800	1800	0
9/2/2024 10:58	10805	CHHI_T2	1	1	0	8.2	7.8	-0.4	-0.97	-1.02	1	1	0	600	600	0
9/2/2024 10:59	47202	FAXO_T2	0	0	0	0	0	0	-0.81	-0.77	0	0	0	0	0	0
9/2/2024 10:59	11104	EGYP_T1	0	0	0	0	0	0	0.9	0.93	0	0	0	0	0	0
9/2/2024 10:59	10805	CHHI_T2	1	1	0	8.2	7.8	-0.4	-0.97	-1.02	1	1	0	600	600	0
9/2/2024 10:59	11102	EGYP_T1	2	4	2	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/2/2024 11:00	11104	EGYP_T1	0	0	0	0	0	0	0.9	0.93	0	0	0	0	0	0
9/2/2024 11:00	11102	EGYP_T1	4	1	-3	0.48	0	-0.48	0	0	0	0	0	0	0	0
9/2/2024 11:00	62104	ELAN_T1	0	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0
9/2/2024 11:00	62102	ELAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/2/2024 11:00	62105	ELAN_T1	0	0	0	0	0	0	0.74	0.78	0	0	0	0	0	0
9/2/2024 11:00	11101	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 11:01	11102	EGYP_T1	4	1	-3	0.48	0	-0.48	0	0	0	0	0	0	0	0
9/2/2024 11:01	11104	EGYP_T1	0	0	0	0	0	0	0.9	0.93	0	0	0	0	0	0
9/2/2024 11:01	11101	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/2/2024 11:01	12701	MACU_T1	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
9/2/2024 11:02	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 11:02	63804	HEMP_T1	1	2	1	5.6	5.8	0.2	0.02	0.07	0	0	0	0	0	0
9/2/2024 11:03	59202	THOM_T1	31	33	2	0.38	0.37	-0.01	0	0	0	0	0	0	0	0
9/2/2024 11:03	42903	MIDD_T2	2	2	0	1.45	1.55	0.1	0	0	0	0	0	0	0	0
9/2/2024 11:03	63202	MGTN_T2	0	0	0	0	0	0	-1.47	-1.45	1	1	0	900	900	0
9/2/2024 11:03	15603	NSTR_T2	1	0	-1	0.1	0	-0.1	-0.19	-0.21	0	0	0	0	0	0
9/2/2024 11:03	15601	NSTR_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
9/2/2024 11:03	59201	THOM_T1	4	7	3	0.55	0.44	-0.11	0	0	0	0	0	0	0	0
9/2/2024 11:03	42901	MIDD_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/2/2024 11:03	42902	MIDD_T2	0	0	0	0	0	0	-0.52	-0.49	0	0	0	0	0	0
9/2/2024 11:04	12701	MACU_T1	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
9/2/2024 11:05	42901	MIDD_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/2/2024 11:05	56501	ROCK_T2	1	1	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
9/2/2024 11:05	56504	ROCK_T2	0	0	0	0	0	0	0.21	0.1	0	0	0	0	0	0
9/2/2024 11:05	42903	MIDD_T2	2	2	0	1.45	1.55	0.1	0.04	0.18	0	0	0	0	0	0
9/2/2024 11:06	59202	THOM_T1	31	33	2	0.38	0.37	-0.01	0	0	0	0	0	0	0	0
9/2/2024 11:06	40101	HUNT_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/2/2024 11:06	67201	TEHI_T1	2	2	0	0.95	0.95	0	-0.01	0.17	1	1	0	900	900	0
9/2/2024 11:06	56501	ROCK_T2	1	1	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
9/2/2024 11:06	59201	THOM_T1	4	7	3	0.55	0.44	-0.11	0	0	0	0	0	0	0	0
9/2/2024 11:06	56504	ROCK_T2	0	0	0	0	0	0	0.21	0.1	0	0	0	0	0	0
9/2/2024 11:07	44302	BEAV_T2	9	11	2	0.5	0.39	-0.11	0	0	0	0	0	0	0	0
9/2/2024 11:07	44301	BEAV_T2	5	3	-2	0.6	0.77	0.17	-0.68	-0.6	1	1	0	600	600	0
9/2/2024 11:08	56504	ROCK_T2	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
9/2/2024 11:08	56501	ROCK_T2	1	1	0	0.3	1.1	0.8	0.32	0.34	0	0	0	0	0	0
9/2/2024 11:09	44301	BEAV_T2	5	3	-2	0.6	0.77	0.17	-0.68	-0.6	1	1	0	600	600	0
9/2/2024 11:09	44302	BEAV_T2	9	11	2	0.5	0.39	-0.11	0	0	0	0	0	0	0	0
9/2/2024 11:09	56504	ROCK_T2	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
9/2/2024 11:09	56501	ROCK_T2	1	1	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
9/2/2024 11:09	42802	SELI_T1	0	0	0	0	0	0	-0.9	-0.93	1	1	0	900	900	0
9/2/2024 11:09	64101	REFR_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
9/2/2024 11:10	42802	SELI_T1	0	0	0	0	0	0	-0.9	-0.93	1	1	0	900	900	0
9/2/2024 11:10	56501	ROCK_T2	1	1	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
9/2/2024 11:10	44301	BEAV_T2	5	3	-2	0.6	0.77	0.17	-0.68	-0.6	1	1	0	600	600	0
9/2/2024 11:10	56504	ROCK_T2	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
9/2/2024 11:10	44302	BEAV_T2	9	11	2	0.5	0.39	-0.11	0	0	0	0	0	0	0	0
9/2/2024 11:10	14801	TREI_T2	1	2	1	0.4	0.6	0.2	0.77	0.77	0	0	0	0	0	0
9/2/2024 11:11	62104	ELAN_T1	0	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0
9/2/2024 11:11	42802	SELI_T1	0	0	0	0	0	0	-0.9	-0.93	1	1	0	900	900	0
9/2/2024 11:11	62102	ELAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/2/2024 11:11	62106	ELAN_T1	0	0	0	0	0	0	0.06	0	0	0	0	0	0	0
9/2/2024 11:12	45501	DERR_T2	0	1	1	0	0.3	0.3	0.21	0.22	1	1	0	600	600	0
9/2/2024 11:12	11901	ETEX_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
9/2/2024 11:12	67702	WERN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/2/2024 11:12	11904	ETEX_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/2/2024 11:12	67703	WERN_T2	0	0	0	0	0	0	-0.42	-0.41	1	1	0	900	900	0
9/2/2024 11:12	42802	SELI_T1	0	0	0	0	0	0	-2.7	-2.79	3	3	0	2700	2700	0
9/2/2024 11:13	12006	HATF_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
9/2/2024 11:13	12007	HATF_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/2/2024 11:13	46802	HEPB_T1	1	1	0	0.1	0.4	0.3	-0.01	0.01	0	0	0	0	0	0
9/2/2024 11:13	12001	HATF_T1	0	0	0	0	0	0	0.46	0.49	2	2	0	1200	1200	0
9/2/2024 11:14	12006	HATF_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
9/2/2024 11:14	54505	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/2/2024 11:14	54504	ENOL_T2	1	1	0	0.6	0.7	0.1	-1.32	-1.27	1	1	0	600	600	0
9/2/2024 11:14	12002	HATF_T1	0	0	0	0	0	0	-1.29	-1.22	1	1	0	1200	1200	0
9/2/2024 11:14	63501	HEID_TBK1-2	47	47	0	0.62	0.82	0.2	0.13	0.15	1	1	0	900	900	0
9/2/2024 11:14	45501	DERR_T2	0	1	1	0	0.3	0.3	0.21	0.22	1	1	0	600	600	0
9/2/2024 11:14	12007	HATF_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/2/2024 11:16	40101	HUNT_T2	1	1	0	0.6	0.5	-0.1	-0.57	-0.55	0	0	0	0	0	0
9/2/2024 11:17	53802	MBRG_T2	0	0	0	0	0	0	0.95	0.86	0	0	0	0	0	0
9/2/2024 11:17	47802	MOCA_T2	8	8	0	0.4	0.41	0.01	0.54	0.53	0	0	0	0	0	0
9/2/2024 11:17	67503	WEWI_T2	2	2	0	3.85	3.75	-0.1	0.12	0.14	0	0	0	0	0	0
9/2/2024 11:17	67502	WEWI_T2	6	4	-2	0.67	0.45	-0.22	0	0	0	0	0	0	0	0
9/2/2024 11:18	22901	HARW_T1	1	0	-1	0.1	0	-0.1	-0.36	-0.53	1	1	0	1200	1200	0
9/2/2024 11:18	22903	HARW_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
9/2/2024 11:19	23001	SAJO_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
9/2/2024 11:19	23002	SAJO_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
9/2/2024 11:19	48302	ORWI_T2	2	2	0	0.25	0.6	0.35	-0.21	-0.34	0	0	0	0	0	0
9/2/2024 11:21	47802	MOCA_T2	8	8	0	0.4	0.41	0.01	0.53	0.52	0	0	0	0	0	0
9/2/2024 11:21	57403	SPAN_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
9/2/2024 11:21	57401	SPAN_T1	1	3	2	0.3	0.2	-0.1	-0.42	-0.58	1	1	0	600	600	0
9/2/2024 11:21	50701	SMEC_T1	4	3	-1	0.7	0.73	0.03	-0.26	-0.24	0	0	0	0	0	0
9/2/2024 11:21	56501	ROCK_T2	1	1	0	1.2	0.8	-0.4	0.32	0.34	0	0	0	0	0	0
9/2/2024 11:21	64503	LAVI_T1	0	0	0	0	0	0	-0.46	-0.41	1	1	0	1200	1200	0
9/2/2024 11:22	43802	SWIL_T1	0	0	0	0	0	0	0.26	0.25	1	1	0	600	600	0
9/2/2024 11:22	43801	SWIL_T1	2	2	0	3.25	3.25	0	0	0	0	0	0	0	0	0
9/2/2024 11:22	43101	SMIL_T2	1	1	0	0.8	0.9	0.1	-0.53	-0.55	0	0	0	0	0	0
9/2/2024 11:22	43105	SMIL_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/2/2024 11:22	48302	ORWI_T2	2	2	0	0.25	0.6	0.35	-0.34	-0.35	0	0	0	0	0	0
9/2/2024 11:22	43103	SMIL_T2	0	5	5	0	0.26	0.26	0	0	0	0	0	0	0	0
9/2/2024 11:23	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 11:23	43801	SWIL_T1	2	2	0	3.25	3.25	0	0	0	0	0	0	0	0	0
9/2/2024 11:23	43802	SWIL_T1	0	0	0	0	0	0	0.26	0.25	1	1	0	600	600	0
9/2/2024 11:23	13704	SOHN_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
9/2/2024 11:24	62604	ENGL_T1	0	0	0	0	0	0	-0.47	-0.5	1	1	0	600	600	0
9/2/2024 11:24	67502	WEWI_T2	6	4	-2	0.67	0.45	-0.22	-0.97	-1.02	1	1	0	900	900	0
9/2/2024 11:24	17001	RIRO_T1	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
9/2/2024 11:24	15201	SFAR_T1	0	0	0	0	0	0	-0.01	0.05	2	2	0	1800	1800	0
9/2/2024 11:24	45602	WOOL_T1	1	0	-1	0.1	0	-0.1	0.88	0.83	0	0	0	0	0	0
9/2/2024 11:24	67503	WEWI_T2	2	2	0	3.85	3.75	-0.1	0	0	0	0	0	0	0	0
9/2/2024 11:24	67505	WEWI_T1	0	0	0	0	0	0	0.18	0.18	1	1	0	900	900	0
9/2/2024 11:25	45602	WOOL_T1	1	0	-1	0.1	0	-0.1	0.88	0.83	0	0	0	0	0	0
9/2/2024 11:25	43802	SWIL_T1	0	0	0	0	0	0	0.26	0.25	1	1	0	600	600	0
9/2/2024 11:25	43801	SWIL_T1	2	2	0	3.25	3.25	0	0	0	0	0	0	0	0	0
9/2/2024 11:25	50701	SMEC_T1	4	3	-1	0.7	0.73	0.03	-0.24	-0.22	0	0	0	0	0	0
9/2/2024 11:26	15001	BLMO_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
9/2/2024 11:27	46402	FLEM_T2	21	21	0	0.22	0.24	0.02	0	0	0	0	0	0	0	0
9/2/2024 11:27	46401	FLEM_T2	27	17	-10	0.37	0.27	-0.1	-0.22	-0.2	0	0	0	0	0	0
9/2/2024 11:27	67502	WEWI_T2	6	4	-2	0.67	0.45	-0.22	0	0	0	0	0	0	0	0
9/2/2024 11:27	11102	EGYP_T1	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
9/2/2024 11:27	11101	EGYP_T1	0	1	1	0	0.1	0.1	0.77	0.77	0	0	0	0	0	0
9/2/2024 11:27	67503	WEWI_T2	2	2	0	3.85	3.75	-0.1	0.14	0.13	0	0	0	0	0	0
9/2/2024 11:28	45602	WOOL_T1	1	0	-1	0.1	0	-0.1	0.88	0.83	0	0	0	0	0	0
9/2/2024 11:29	47901	HRDG_T1	0	0	0	0	0	0	0.64	0.45	0	0	0	0	0	0
9/2/2024 11:29	50201	HARR_T3	1	2	1	0.4	0.25	-0.15	-0.33	-0.33	1	1	0	1200	1200	0
9/2/2024 11:29	50107	HARR_T3	1	1	0	6.3	6.6	0.3	0	0	0	0	0	0	0	0
9/2/2024 11:29	50105	HARR_T3	6	7	1	6.6	6.63	0.03	0	0	0	0	0	0	0	0
9/2/2024 11:30	46401	FLEM_T2	17	8	-9	0.27	0.4	0.13	-0.22	-0.2	0	0	0	0	0	0
9/2/2024 11:30	60904	DONG_T2	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/2/2024 11:30	60902	DONG_T2	0	0	0	0	0	0	1.2	1.21	0	0	0	0	0	0
9/2/2024 11:30	46402	FLEM_T2	21	24	3	0.24	0.15	-0.09	0.15	0.14	0	0	0	0	0	0
9/2/2024 11:31	41001	LAUR_T2	2	2	0	1.45	1.25	-0.2	0	0	0	0	0	0	0	0
9/2/2024 11:31	41002	LAUR_T2	4	4	0	0.6	0.75	0.15	0.19	0.21	0	0	0	0	0	0
9/2/2024 11:31	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 11:31	46401	FLEM_T2	17	8	-9	0.27	0.4	0.13	0	0	0	0	0	0	0	0
9/2/2024 11:31	45802	HEGI_T2	2	39	37	0.15	0.8	0.65	1.22	0.46	0	0	0	0	0	0
9/2/2024 11:31	46402	FLEM_T2	21	24	3	0.24	0.15	-0.09	0.15	0.14	0	0	0	0	0	0
9/2/2024 11:32	64902	MILL_T2	0	0	0	0	0	0	0.25	0.24	1	1	0	900	900	0
9/2/2024 11:32	50105	HARR_T3	6	6	0	6.67	6.7	0.03	0	0	0	0	0	0	0	0
9/2/2024 11:32	50201	HARR_T3	1	2	1	0.4	0.25	-0.15	-0.66	-0.66	2	2	0	2400	2400	0
9/2/2024 11:32	50107	HARR_T3	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
9/2/2024 11:33	48302	ORWI_T2	2	2	0	0.6	0.5	-0.1	-0.34	-0.35	0	0	0	0	0	0
9/2/2024 11:34	57304	MOAL_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
9/2/2024 11:34	57303	MOAL_T2	1	1	0	7.9	8	0.1	0	0	0	0	0	0	0	0
9/2/2024 11:35	46302	ROHR_T1	8	7	-1	1.04	1.17	0.13	0.29	0.3	0	0	0	0	0	0
9/2/2024 11:35	44701	MUNC_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/2/2024 11:35	44703	MUNC_T2	0	0	0	0	0	0	1.09	1.04	0	0	0	0	0	0
9/2/2024 11:35	46506	LOHA_T1	3	3	0	3.37	4.07	0.7	0	0	0	0	0	0	0	0
9/2/2024 11:35	46501	LOHA_T1	1	1	0	2.6	0	-2.6	0.88	0.87	0	0	0	0	0	0
9/2/2024 11:35	46301	ROHR_T1	135	107	-28	0.34	0.35	0.01	0	0	0	0	0	0	0	0
9/2/2024 11:35	44702	MUNC_T2	6	5	-1	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
9/2/2024 11:36	59202	THOM_T1	33	23	-10	0.37	0.42	0.05	0	0	0	0	0	0	0	0
9/2/2024 11:36	59201	THOM_T1	6	2	-4	0.2	1	0.8	0	0	0	0	0	0	0	0
9/2/2024 11:37	54601	SUMM_T2	0	0	0	0	0	0	-1.4	-1.46	2	2	0	2100	2100	0
9/2/2024 11:38	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 11:38	44701	MUNC_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/2/2024 11:38	44702	MUNC_T2	6	5	-1	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
9/2/2024 11:39	20403	ASHF_T2	0	2	2	0	0.7	0.7	0.99	0.96	0	0	0	0	0	0
9/2/2024 11:39	20402	ASHF_T2	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/2/2024 11:39	20401	ASHF_T2	9	7	-2	0.36	0.41	0.05	0	0	0	0	0	0	0	0
9/2/2024 11:41	55105	WERT_T1	0	0	0	0	0	0	0	0.02	1	1	0	900	900	0
9/2/2024 11:42	16005	DORN_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/2/2024 11:42	16004	DORN_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/2/2024 11:42	64101	REFR_T1	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
9/2/2024 11:42	54504	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/2/2024 11:42	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/2/2024 11:42	54506	ENOL_T2	0	0	0	0	0	0	0.29	0.32	1	1	0	600	600	0
9/2/2024 11:43	11101	EGYP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 11:43	11102	EGYP_T1	1	4	3	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
9/2/2024 11:43	11104	EGYP_T1	0	1	1	0	0	0	0.96	0.98	0	0	0	0	0	0
9/2/2024 11:44	46004	BERW_T2	0	1	1	0	0	0	-0.2	-0.29	0	0	0	0	0	0
9/2/2024 11:44	61506	EPET_T2	0	0	0	0	0	0	-0.72	-0.71	1	1	0	900	900	0
9/2/2024 11:44	61501	EPET_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
9/2/2024 11:44	24105	EHAZ_T1	4	4	0	7.05	6.75	-0.3	0	0	0	0	0	0	0	0
9/2/2024 11:44	24104	EHAZ_T1	1	1	0	0.2	0.3	0.1	-0.71	-0.74	1	1	0	1200	1200	0
9/2/2024 11:44	64501	LAVI_T1	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
9/2/2024 11:44	11507	FREE_T2	1	0	-1	0.2	0	-0.2	-0.42	-0.38	0	0	0	0	0	0
9/2/2024 11:45	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 11:45	20602	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 11:45	46002	BERW_T2	0	0	0	0	0	0	-1.2	-1.19	1	1	0	900	900	0
9/2/2024 11:45	20601	GRWO_T2	0	0	0	0	0	0	0.73	0.7	0	0	0	0	0	0
9/2/2024 11:46	28805	LAKE_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/2/2024 11:47	11104	EGYP_T1	0	1	1	0	0	0	0.96	0.98	0	0	0	0	0	0
9/2/2024 11:47	11101	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 11:47	11102	EGYP_T1	4	1	-3	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
9/2/2024 11:49	25402	LAHA_T2	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
9/2/2024 11:49	40603	PIGR_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/2/2024 11:49	40601	PIGR_T1	11	9	-2	0.35	0.39	0.04	0	0	0	0	0	0	0	0
9/2/2024 11:49	40602	PIGR_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
9/2/2024 11:50	15603	NSTR_T2	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
9/2/2024 11:50	11104	EGYP_T1	0	1	1	0	0	0	0.96	0.98	0	0	0	0	0	0
9/2/2024 11:50	11101	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 11:50	11102	EGYP_T1	4	1	-3	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
9/2/2024 11:51	14802	TREI_T2	0	0	0	0	0	0	0.95	0.94	0	0	0	0	0	0
9/2/2024 11:51	14801	TREI_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
9/2/2024 11:52	67401	WAKE_T2	3	2	-1	0.27	0.2	-0.07	-0.76	-0.71	0	0	0	0	0	0
9/2/2024 11:52	64503	LAVI_T1	0	0	0	0	0	0	-0.41	-0.43	1	1	0	1200	1200	0
9/2/2024 11:52	64101	REFR_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
9/2/2024 11:52	44202	POIN_T2	0	0	0	0	0	0	-0.78	-0.79	1	1	0	1200	1200	0
9/2/2024 11:54	42503	ALTA_T2	0	0	0	0	0	0	0.42	0.46	0	0	0	0	0	0
9/2/2024 11:54	57404	SPAN_T2	0	0	0	0	0	0	0.53	0.49	1	1	0	1200	1200	0
9/2/2024 11:54	57402	SPAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/2/2024 11:55	20402	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/2/2024 11:55	20403	ASHF_T2	2	2	0	0.7	0.55	-0.15	0.48	0.52	0	0	0	0	0	0
9/2/2024 11:55	43504	WWIL_T1	1	2	1	0.2	0.1	-0.1	0.86	0.9	0	0	0	0	0	0
9/2/2024 11:55	43505	WWIL_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
9/2/2024 11:55	43506	WWIL_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
9/2/2024 11:55	20401	ASHF_T2	7	6	-1	0.41	0.28	-0.13	0	0	0	0	0	0	0	0
9/2/2024 11:56	11601	CEAL_T1	0	1	1	0	0.2	0.2	0	0	2	2	0	2400	2400	0
9/2/2024 11:56	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 11:56	59102	WALK_T2	3	4	1	0.3	0.43	0.13	0.47	0.48	0	0	0	0	0	0
9/2/2024 11:56	11604	CEAL_T1	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
9/2/2024 11:57	53601	DALM_T2	1	1	0	0.2	0.2	0	0.04	0.02	0	0	0	0	0	0
9/2/2024 11:57	51906	COPA_T1	0	0	0	0	0	0	-0.68	-0.69	2	2	0	1500	1500	0
9/2/2024 11:57	44903	SCOT_T1	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
9/2/2024 11:57	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 11:57	55105	WERT_T1	0	0	0	0	0	0	0.02	0.06	1	1	0	900	900	0
9/2/2024 11:57	44904	SCOT_T1	3	3	0	0.43	0.6	0.17	0	0	0	0	0	0	0	0
9/2/2024 11:57	51904	COPA_T1	5	5	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
9/2/2024 11:57	64904	MILL_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
9/2/2024 11:58	41501	FAIR_T2	0	0	0	0	0	0	-0.95	-0.97	1	1	0	600	600	0
9/2/2024 11:59	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 12:00	52402	GRPA_T2	1	3	2	0.2	0.3	0.1	-0.45	-0.53	0	0	0	0	0	0
9/2/2024 12:00	52403	GRPA_T2	3	4	1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
9/2/2024 12:00	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/2/2024 12:01	52402	GRPA_T2	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/2/2024 12:01	52403	GRPA_T2	3	4	1	0.7	0.9	0.2	0.06	0.09	0	0	0	0	0	0
9/2/2024 12:01	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/2/2024 12:01	24702	FLND_T2	3	3	0	0.7	1.43	0.73	0	0	1	1	0	1200	1200	0
9/2/2024 12:02	51904	COPA_T1	5	5	0	0.76	0.9	0.14	0	0	0	0	0	0	0	0
9/2/2024 12:02	63601	LETO_T1	6	2	-4	0.27	0.3	0.03	0	0	0	0	0	0	0	0
9/2/2024 12:02	51902	COPA_T1	0	0	0	0	0	0	-1.49	-1.49	1	1	0	1200	1200	0
9/2/2024 12:02	63602	LETO_T1	2	1	-1	0.6	0.8	0.2	0.06	0.11	0	0	0	0	0	0
9/2/2024 12:02	24702	FLND_T2	3	3	0	0.7	1.43	0.73	0	0	1	1	0	1200	1200	0
9/2/2024 12:02	12701	MACU_T1	1	2	1	0.7	0	-0.7	0.21	0.2	0	0	0	0	0	0
9/2/2024 12:03	64503	LAVI_T1	0	0	0	0	0	0	-0.41	-0.43	1	1	0	1200	1200	0
9/2/2024 12:04	12701	MACU_T1	1	2	1	0.7	0	-0.7	0.21	0.2	0	0	0	0	0	0
9/2/2024 12:04	63602	LETO_T1	2	1	-1	0.6	0.8	0.2	0.06	0.11	0	0	0	0	0	0
9/2/2024 12:04	63601	LETO_T1	6	2	-4	0.27	0.3	0.03	0.42	0.68	1	1	0	900	900	0
9/2/2024 12:05	52403	GRPA_T2	3	4	1	0.7	0.9	0.2	0.06	0.09	0	0	0	0	0	0
9/2/2024 12:05	52402	GRPA_T2	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/2/2024 12:05	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/2/2024 12:05	13704	SCHN_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
9/2/2024 12:07	43105	SMIL_T2	2	2	0	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
9/2/2024 12:07	64802	MONE_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
9/2/2024 12:07	43101	SMIL_T2	2	1	-1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
9/2/2024 12:07	43102	SMIL_T2	0	0	0	0	0	0	-1.03	-1.01	2	2	0	1200	1200	0
9/2/2024 12:07	43103	SMIL_T2	6	2	-4	1.35	0.15	-1.2	0	0	0	0	0	0	0	0
9/2/2024 12:08	50701	SMEC_T1	4	3	-1	0.6	0.73	0.13	-0.24	-0.24	0	0	0	0	0	0
9/2/2024 12:09	20402	ASHF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/2/2024 12:09	20401	ASHF_T2	5	8	3	0.28	0.33	0.05	0.08	0.11	0	0	0	0	0	0
9/2/2024 12:09	20403	ASHF_T2	2	2	0	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
9/2/2024 12:09	21705	SUBU_T1	1	1	0	6.3	5.8	-0.5	0.84	0.93	0	0	0	0	0	0
9/2/2024 12:09	57403	SPAN_T1	2	3	1	0.35	0.37	0.02	0.31	0.34	0	0	0	0	0	0
9/2/2024 12:09	57401	SPAN_T1	2	4	2	0.5	0.55	0.05	0	0	0	0	0	0	0	0
9/2/2024 12:09	21701	SUBU_T1	1	1	0	6.6	6.2	-0.4	0	0	0	0	0	0	0	0
9/2/2024 12:10	67401	WAKE_T2	2	1	-1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
9/2/2024 12:10	67402	WAKE_T2	0	0	0	0	0	0	-0.04	-0.01	1	1	0	600	600	0
9/2/2024 12:10	45501	DERR_T2	1	1	0	0.1	0.1	0	0.26	0.26	1	1	0	600	600	0
9/2/2024 12:11	55105	WERT_T1	0	0	0	0	0	0	0.06	0.03	1	1	0	900	900	0
9/2/2024 12:11	44301	BEAV_T2	1	2	1	1.6	0.95	-0.65	0	0	0	0	0	0	0	0
9/2/2024 12:11	44302	BEAV_T2	8	9	1	0.33	0.59	0.26	0	0	0	0	0	0	0	0
9/2/2024 12:12	45501	DERR_T2	1	1	0	0.1	0.1	0	0.26	0.26	1	1	0	600	600	0
9/2/2024 12:12	11903	ETEX_T1	1	1	0	0.6	0.4	-0.2	0.82	0.82	0	0	0	0	0	0
9/2/2024 12:13	10602	BLGL_T2	0	3	3	0	0.8	0.8	0.45	0.43	0	0	0	0	0	0
9/2/2024 12:13	45501	DERR_T2	1	1	0	0.1	0.1	0	0.26	0.26	1	1	0	600	600	0
9/2/2024 12:13	14204	EALL_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
9/2/2024 12:14	61803	EELI_T2	0	1	1	0	0.1	0.1	0.54	0.55	1	1	0	600	600	0
9/2/2024 12:14	53601	DALM_T2	1	1	0	0.2	0.4	0.2	0.02	-0.02	0	0	0	0	0	0
9/2/2024 12:14	14706	TREX_T1	0	0	0	0	0	0	-1.15	-1.1	2	2	0	2100	2100	0
9/2/2024 12:14	14702	TREX_T2	0	0	0	0	0	0	0.81	0.79	0	0	0	0	0	0
9/2/2024 12:15	66501	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/2/2024 12:15	66505	SMAN_T2	1	2	1	0.7	1.1	0.4	0.51	0.39	3	3	0	1700	1700	0
9/2/2024 12:15	42801	SELI_T1	0	0	0	0	0	0	-1.02	-0.99	1	1	0	1200	1200	0
9/2/2024 12:15	66502	SMAN_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/2/2024 12:16	65503	MOJO_T2	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
9/2/2024 12:16	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 12:16	45502	DERR_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
9/2/2024 12:17	64204	KINZ_T1	2	3	1	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
9/2/2024 12:17	64203	KINZ_T1	0	0	0	0	0	0	0.12	0.15	1	1	0	600	600	0
9/2/2024 12:17	42002	MNVL_T2	1	1	0	2.7	2.7	0	-0.26	-0.27	0	0	0	0	0	0
9/2/2024 12:17	42001	MNVL_T2	86	52	-34	0.5	0.39	-0.11	0	0	0	0	0	0	0	0
9/2/2024 12:18	47802	MOCA_T2	8	8	0	0.2	0.28	0.08	0.53	0.53	0	0	0	0	0	0
9/2/2024 12:18	65503	MOJO_T2	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
9/2/2024 12:18	12606	MACA_T1	0	10	10	0	0.27	0.27	0	0	0	0	0	0	0	0
9/2/2024 12:18	12604	MACA_T1	1	2	1	0.4	0.3	-0.1	0.58	0.6	0	0	0	0	0	0
9/2/2024 12:18	12601	MACA_T1	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
9/2/2024 12:19	12703	MACU_T2	0	0	0	0	0	0	-0.38	-0.45	0	0	0	0	0	0
9/2/2024 12:19	51702	OBER_T1	3	3	0	1.87	1.93	0.06	0.18	0.29	0	0	0	0	0	0
9/2/2024 12:19	12705	MACU_T2	1	2	1	0.8	0.95	0.15	0	0	0	0	0	0	0	0
9/2/2024 12:19	51704	OBER_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/2/2024 12:20	42001	MNVL_T2	86	52	-34	0.5	0.39	-0.11	0.05	0.1	0	0	0	0	0	0
9/2/2024 12:20	42002	MNVL_T2	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0	0
9/2/2024 12:22	44201	POIN_T1	0	0	0	0	0	0	-1.59	-1.68	2	2	0	2100	2100	0
9/2/2024 12:23	65205	PRIN_T1	1	4	3	1.5	0.87	-0.63	0	0	0	0	0	0	0	0
9/2/2024 12:23	21701	SUBU_T1	1	1	0	6.2	6.2	0	0.92	0.91	0	0	0	0	0	0
9/2/2024 12:23	43103	SMIL_T2	2	0	-2	0.15	0	-0.15	-0.52	-0.56	0	0	0	0	0	0
9/2/2024 12:23	43105	SMIL_T2	2	2	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
9/2/2024 12:23	21705	SUBU_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
9/2/2024 12:23	43101	SMIL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/2/2024 12:23	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
9/2/2024 12:24	64101	REFR_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
9/2/2024 12:24	50701	SMEC_T1	2	3	1	1	0.73	-0.27	-0.24	-0.22	0	0	0	0	0	0
9/2/2024 12:28	61304	EARL_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/2/2024 12:28	61301	EARL_T1	0	0	0	0	0	0	-0.38	-0.35	1	1	0	900	900	0
9/2/2024 12:28	61302	EARL_T1	1	3	2	1.2	0.73	-0.47	0	0	0	0	0	0	0	0
9/2/2024 12:28	61505	EPET_T1	0	0	0	0	0	0	0.8	0.84	0	0	0	0	0	0
9/2/2024 12:28	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.26	0.25	1	1	0	600	600	0
9/2/2024 12:29	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
9/2/2024 12:29	48902	FOSP_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
9/2/2024 12:29	48901	FOSP_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
9/2/2024 12:32	63601	LETO_T1	2	3	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/2/2024 12:32	58401	MORO_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
9/2/2024 12:32	63602	LETO_T1	1	1	0	0.8	0.6	-0.2	0.13	0.26	0	0	0	0	0	0
9/2/2024 12:34	47401	PENS_T1	2	0	-2	0.35	0	-0.35	0.67	0.83	0	0	0	0	0	0
9/2/2024 12:34	47403	PENS_T1	1	2	1	1	1.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 12:36	15702	TANN_T2	2	1	-1	0.4	0.2	-0.2	-0.09	-0.13	0	0	0	0	0	0
9/2/2024 12:36	44201	POIN_T1	0	0	0	0	0	0	-1.68	-1.67	2	2	0	2100	2100	0
9/2/2024 12:36	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
9/2/2024 12:36	58401	MORO_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
9/2/2024 12:36	66902	SHIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 12:36	50701	SMEC_T1	3	2	-1	0.73	0.85	0.12	-0.24	-0.22	0	0	0	0	0	0
9/2/2024 12:36	66903	SHIL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/2/2024 12:36	66901	SHIL_T2	2	0	-2	0.15	0	-0.15	-1.3	-1.28	1	1	0	1200	1200	0
9/2/2024 12:36	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
9/2/2024 12:37	21703	SUBU_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
9/2/2024 12:37	47403	PENS_T1	1	2	1	1	1.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 12:37	21705	SUBU_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
9/2/2024 12:37	58401	MORO_T1	0	0	0	0	0	0	-0.13	-0.09	0	0	0	0	0	0
9/2/2024 12:37	41901	REED_T1	6	3	-3	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
9/2/2024 12:37	21701	SUBU_T1	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
9/2/2024 12:37	41902	REED_T1	1	2	1	0.8	0.5	-0.3	1.15	1.1	0	0	0	0	0	0
9/2/2024 12:37	47401	PENS_T1	2	0	-2	0.35	0	-0.35	1.67	1.63	0	0	0	0	0	0
9/2/2024 12:38	20102	AVOC_T1	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
9/2/2024 12:38	20106	AVOC_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/2/2024 12:38	20101	AVOC_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 12:38	43402	BENT_T1	0	2	2	0	0.2	0.2	-0.45	-0.42	1	1	0	600	600	0
9/2/2024 12:39	50701	SMEC_T1	3	2	-1	0.73	0.85	0.12	-0.22	-0.22	0	0	0	0	0	0
9/2/2024 12:39	11804	FRAN_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/2/2024 12:39	67702	WERN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/2/2024 12:39	11805	FRAN_T1	0	0	0	0	0	0	-1.01	-0.97	1	1	0	1200	1200	0
9/2/2024 12:39	67703	WERN_T2	1	0	-1	0.1	0	-0.1	-0.34	-0.29	1	1	0	900	900	0
9/2/2024 12:39	64101	REFR_T1	0	0	0	0	0	0	0.94	0.9	0	0	0	0	0	0
9/2/2024 12:40	64101	REFR_T1	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
9/2/2024 12:40	50701	SMEC_T1	3	2	-1	0.73	0.85	0.12	-0.22	-0.22	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/2/2024 12:41	41902	REED_T1	1	2	1	0.8	0.5	-0.3	1.15	1.1	0	0	0	0	0	0
9/2/2024 12:41	20106	AVOC_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/2/2024 12:41	20101	AVOC_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 12:41	64101	REFR_T1	0	0	0	0	0	0	1.89	1.81	0	0	0	0	0	0
9/2/2024 12:41	41901	REED_T1	6	3	-3	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
9/2/2024 12:41	20103	AVOC_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
9/2/2024 12:42	20402	ASHF_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 12:42	20403	ASHF_T2	2	4	2	0.3	0.7	0.4	0.56	0.58	0	0	0	0	0	0
9/2/2024 12:42	20401	ASHF_T2	8	7	-1	0.33	0.38	0.05	0	0	0	0	0	0	0	0
9/2/2024 12:42	64101	REFR_T1	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
9/2/2024 12:43	57104	SPHI_T2	2	1	-1	0.45	0.3	-0.15	-1.52	-1.52	1	1	0	900	900	0
9/2/2024 12:43	57103	SPHI_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
9/2/2024 12:43	57101	SPHI_T2	6	6	0	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
9/2/2024 12:43	44801	EDAN_T2	12	13	1	0.66	0.48	-0.18	-1.42	-1.45	0	0	0	0	0	0
9/2/2024 12:43	57106	SPHI_T2	4	4	0	1	0.95	-0.05	0	0	0	0	0	0	0	0
9/2/2024 12:44	43402	BENT_T1	0	2	2	0	0.2	0.2	-0.45	-0.42	1	1	0	600	600	0
9/2/2024 12:44	60801	BUCK_T1	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
9/2/2024 12:44	46802	HEPB_T1	1	1	0	0.4	0.2	-0.2	0.01	-0.01	0	0	0	0	0	0
9/2/2024 12:44	14702	TREX_T2	0	0	0	0	0	0	0.82	0.89	0	0	0	0	0	0
9/2/2024 12:44	44801	EDAN_T2	12	13	1	0.66	0.48	-0.18	-1.42	-1.45	0	0	0	0	0	0
9/2/2024 12:45	46004	BERW_T2	0	1	1	0	0.2	0.2	-0.28	-0.25	0	0	0	0	0	0
9/2/2024 12:46	44801	EDAN_T2	10	17	7	0.34	0.39	0.05	-1.42	-1.45	0	0	0	0	0	0
9/2/2024 12:48	13503	MCMI_T2	2	176	174	0.5	0.36	-0.14	0.29	-1.53	0	0	0	0	0	0
9/2/2024 12:48	46802	HEPB_T1	1	1	0	0.2	0.2	0	0.01	-0.01	0	0	0	0	0	0
9/2/2024 12:48	44202	POIN_T2	0	0	0	0	0	0	-0.78	-0.78	1	1	0	1200	1200	0
9/2/2024 12:48	26803	JAFR_T1	0	0	0	0	0	0	-0.2	-0.18	1	1	0	900	900	0
9/2/2024 12:49	46101	MACI_T2	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
9/2/2024 12:50	47802	MOCA_T2	8	8	0	0.28	0.25	-0.03	0.54	0.55	0	0	0	0	0	0
9/2/2024 12:50	40603	PIGR_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/2/2024 12:50	15604	NSTR_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
9/2/2024 12:50	40601	PIGR_T1	10	12	2	0.54	0.53	-0.01	0	0	0	0	0	0	0	0
9/2/2024 12:50	40602	PIGR_T1	1	1	0	1	1.1	0.1	0.48	0.41	0	0	0	0	0	0
9/2/2024 12:51	65601	QVIL_T2	0	0	0	0	0	0	-0.52	-0.47	1	1	0	900	900	0
9/2/2024 12:52	49804	UNIV_T1	0	0	0	0	0	0	0.85	0.9	0	0	0	0	0	0
9/2/2024 12:52	44703	MUNC_T2	0	0	0	0	0	0	1.08	1.1	0	0	0	0	0	0
9/2/2024 12:52	21704	SUBU_T1	0	0	0	0	0	0	-2.22	-2.26	2	2	0	2400	2400	0
9/2/2024 12:52	44701	MUNC_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 12:52	21701	SUBU_T1	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
9/2/2024 12:52	21705	SUBU_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
9/2/2024 12:52	15604	NSTR_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
9/2/2024 12:52	49803	UNIV_T1	1	2	1	5	2.6	-2.4	0	0	0	0	0	0	0	0
9/2/2024 12:52	44702	MUNC_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/2/2024 12:53	52403	GRPA_T2	6	3	-3	0.53	0.3	-0.23	0.08	0.1	0	0	0	0	0	0
9/2/2024 12:53	59102	WALK_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
9/2/2024 12:53	52402	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/2/2024 12:53	59101	WALK_T2	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
9/2/2024 12:55	57401	SPAN_T1	2	4	2	1.1	0.9	-0.2	-0.5	-0.52	1	1	0	600	600	0
9/2/2024 12:55	49803	UNIV_T1	1	2	1	5	2.6	-2.4	-1.94	-2.01	0	0	0	0	0	0
9/2/2024 12:55	57403	SPAN_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/2/2024 12:56	45501	DERR_T2	0	2	2	0	0.3	0.3	0.29	0.28	1	1	0	600	600	0
9/2/2024 12:56	57401	SPAN_T1	2	4	2	1.1	0.9	-0.2	-0.5	-0.52	1	1	0	600	600	0
9/2/2024 12:56	57403	SPAN_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/2/2024 12:57	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 12:57	61701	ELIZ_T1	2	2	0	2.15	2.15	0	0	0	0	0	0	0	0	0
9/2/2024 12:57	45501	DERR_T2	0	2	2	0	0.3	0.3	0.29	0.28	1	1	0	600	600	0
9/2/2024 12:57	61703	ELIZ_T1	0	0	0	0	0	0	-2.14	-1.98	2	2	0	2100	2100	0
9/2/2024 12:57	29402	BELT_T1	2	3	1	4.45	3.23	-1.22	0	0	0	0	0	0	0	0
9/2/2024 12:57	60102	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/2/2024 12:57	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 12:57	47203	FAXO_T2	0	0	0	0	0	0	-1.31	-1.3	1	1	0	1200	1200	0
9/2/2024 12:57	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 12:57	60101	COCA_T1	2	2	0	0.55	0.85	0.3	0.78	0.85	0	0	0	0	0	0
9/2/2024 12:58	40702	FFLD_T1	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
9/2/2024 12:58	60102	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/2/2024 12:58	60101	COCA_T1	2	2	0	0.55	0.85	0.3	1.56	1.7	0	0	0	0	0	0
9/2/2024 12:58	45501	DERR_T2	0	2	2	0	0.3	0.3	0.29	0.28	1	1	0	600	600	0
9/2/2024 12:59	60101	COCA_T1	2	2	0	0.55	0.85	0.3	0.78	0.85	0	0	0	0	0	0
9/2/2024 12:59	45501	DERR_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
9/2/2024 12:59	45502	DERR_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
9/2/2024 12:59	61703	ELIZ_T1	0	0	0	0	0	0	-2.14	-1.98	2	2	0	2100	2100	0
9/2/2024 12:59	60102	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/2/2024 12:59	61701	ELIZ_T1	2	2	0	2.15	2.15	0	0	0	0	0	0	0	0	0
9/2/2024 12:59	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 13:00	45501	DERR_T2	2	2	0	0.3	0.4	0.1	0.29	0.28	1	1	0	600	600	0
9/2/2024 13:01	60101	COCA_T1	2	2	0	0.85	0.8	-0.05	0.78	0.85	0	0	0	0	0	0
9/2/2024 13:01	61701	ELIZ_T1	2	2	0	1.95	2.35	0.4	0	0	0	0	0	0	0	0
9/2/2024 13:01	60102	COCA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/2/2024 13:01	61703	ELIZ_T1	0	0	0	0	0	0	-2.14	-1.98	2	2	0	2100	2100	0
9/2/2024 13:04	13502	MCMI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/2/2024 13:04	13503	MCMI_T2	6	176	170	0.38	0.36	-0.02	-0.77	-0.74	0	0	0	0	0	0
9/2/2024 13:05	24205	PROV_T3	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
9/2/2024 13:05	55001	NEWP_T1	1	6	5	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/2/2024 13:05	13503	MCMI_T2	6	176	170	0.38	0.36	-0.02	-1.53	-1.49	0	0	0	0	0	0
9/2/2024 13:05	24204	PROV_T3	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
9/2/2024 13:05	24201	PROV_T3	1	1	0	6.4	6.2	-0.2	-1.01	-1.02	1	1	0	1200	1200	0
9/2/2024 13:05	55002	NEWP_T1	5	6	1	0.4	0.53	0.13	-0.06	-0.05	0	0	0	0	0	0
9/2/2024 13:06	14603	SWHI_T1	2	3	1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
9/2/2024 13:06	65901	SAKR_T2	1	1	0	7.2	7	-0.2	-0.24	-0.28	1	1	0	600	600	0
9/2/2024 13:06	14601	SWHI_T1	0	1	1	0	0	0	-0.5	-0.51	0	0	0	0	0	0
9/2/2024 13:07	50701	SMEC_T1	2	3	1	0.85	0.93	0.08	-0.22	-0.22	0	0	0	0	0	0
9/2/2024 13:08	44301	BEAV_T2	1	2	1	0.6	0.75	0.15	-1.2	-1.2	1	1	0	600	600	0
9/2/2024 13:08	44302	BEAV_T2	3	7	4	0.23	0.46	0.23	0	0	0	0	0	0	0	0
9/2/2024 13:08	65901	SAKR_T2	1	1	0	7.2	7	-0.2	0	0	0	0	0	0	0	0
9/2/2024 13:08	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 13:08	10102	ALLE_T2	1	1	0	7.6	7.6	0	0	0	0	0	0	0	0	0
9/2/2024 13:08	65904	SAKR_T2	0	0	0	0	0	0	-1.7	-1.7	3	3	0	1500	1500	0
9/2/2024 13:08	10206	ALLE_T2	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
9/2/2024 13:08	15803	WGAT_T1	0	0	0	0	0	0	1.47	1.47	0	0	0	0	0	0
9/2/2024 13:09	14603	SWHI_T1	2	3	1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
9/2/2024 13:09	47403	PENS_T1	1	0	-1	1.9	0	-1.9	0	0	0	0	0	0	0	0
9/2/2024 13:09	14601	SWHI_T1	0	1	1	0	0	0	-0.5	-0.51	0	0	0	0	0	0
9/2/2024 13:09	47401	PENS_T1	0	0	0	0	0	0	0.77	0.87	0	0	0	0	0	0
9/2/2024 13:09	64101	REFR_T1	0	1	1	0	0.1	0.1	0.49	0.47	0	0	0	0	0	0
9/2/2024 13:09	47402	PENS_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 13:09	55101	WERT_T1	0	0	0	0	0	0	-1.35	-1.3	4	4	0	3000	3000	0
9/2/2024 13:10	64101	REFR_T1	0	1	1	0	0.1	0.1	0.97	0.95	0	0	0	0	0	0
9/2/2024 13:11	57401	SPAN_T1	2	4	2	1.2	0.9	-0.3	-0.52	-0.44	1	1	0	600	600	0
9/2/2024 13:11	57403	SPAN_T1	1	3	2	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
9/2/2024 13:11	29301	DAPP_T1	1	1	0	8.8	8.9	0.1	0	0	1	1	0	600	600	0
9/2/2024 13:12	57401	SPAN_T1	2	4	2	1.2	0.9	-0.3	-0.52	-0.44	1	1	0	600	600	0
9/2/2024 13:12	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 13:12	44801	EDAN_T2	11	17	6	0.42	0.41	-0.01	-1.38	-1.46	0	0	0	0	0	0
9/2/2024 13:12	64101	REFR_T1	0	1	1	0	0.1	0.1	1.46	1.42	0	0	0	0	0	0
9/2/2024 13:12	57403	SPAN_T1	1	3	2	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
9/2/2024 13:13	57403	SPAN_T1	1	3	2	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
9/2/2024 13:13	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 13:13	57401	SPAN_T1	2	4	2	1.2	0.9	-0.3	-0.52	-0.44	1	1	0	600	600	0
9/2/2024 13:13	14801	TREI_T2	2	2	0	0.5	0.5	0	0.89	0.93	0	0	0	0	0	0
9/2/2024 13:14	51904	COPA_T1	5	5	0	0.6	0.68	0.08	0.79	0.77	2	2	0	1200	1200	0
9/2/2024 13:15	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 13:15	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 13:15	40902	JESH_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 13:15	40901	JESH_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
9/2/2024 13:16	26401	INOR_T1	1	1	0	5.8	7	1.2	0.65	0.65	0	0	0	0	0	0
9/2/2024 13:19	57004	WHHI_T2	0	0	0	0	0	0	-0.3	-0.25	0	0	0	0	0	0
9/2/2024 13:19	42903	MIDD_T2	2	2	0	0.95	1.05	0.1	0.14	0.02	0	0	0	0	0	0
9/2/2024 13:21	57401	SPAN_T1	4	4	0	0.9	0.8	-0.1	-0.52	-0.44	1	1	0	600	600	0
9/2/2024 13:21	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	900	900	0
9/2/2024 13:21	57403	SPAN_T1	1	3	2	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
9/2/2024 13:22	55101	WERT_T1	0	0	0	0	0	0	-0.65	-0.64	2	2	0	1500	1500	0
9/2/2024 13:23	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 13:23	64101	REFR_T1	1	0	-1	0.1	0	-0.1	1.42	1.45	0	0	0	0	0	0
9/2/2024 13:25	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 13:25	10205	ALLE_T3	2	2	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
9/2/2024 13:25	10109	ALLE_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 13:25	64101	REFR_T1	1	0	-1	0.1	0	-0.1	0.47	0.48	0	0	0	0	0	0
9/2/2024 13:26	64101	REFR_T1	1	0	-1	0.1	0	-0.1	0.95	0.97	0	0	0	0	0	0
9/2/2024 13:27	67702	WERN_T2	1	2	1	0.2	0.15	-0.05	0.19	0.22	0	0	0	0	0	0
9/2/2024 13:27	67703	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 13:28	67002	STHI_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
9/2/2024 13:29	64101	REFR_T1	1	0	-1	0.1	0	-0.1	0.47	0.48	0	0	0	0	0	0
9/2/2024 13:29	24102	EHAZ_T1	0	2	2	0	1.15	1.15	0	0.08	0	0	0	0	0	0
9/2/2024 13:29	24105	EHAZ_T1	4	4	0	6.85	6.8	-0.05	0	0	0	0	0	0	0	0
9/2/2024 13:29	24104	EHAZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/2/2024 13:29	24101	EHAZ_T1	14	18	4	0.8	0.47	-0.33	0	0	0	0	0	0	0	0
9/2/2024 13:30	26803	JAFR_T1	0	1	1	0	0.3	0.3	-0.17	-0.17	1	1	0	900	900	0
9/2/2024 13:30	14201	BALL_T1	0	0	0	0	0	0	1.02	1.07	0	0	0	0	0	0
9/2/2024 13:32	52402	GRPA_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
9/2/2024 13:32	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 13:32	52403	GRPA_T2	1	2	1	0.4	0.65	0.25	0	0	0	0	0	0	0	0
9/2/2024 13:32	52404	GRPA_T2	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
9/2/2024 13:34	53802	MBRG_T2	0	0	0	0	0	0	0.89	-0.15	0	0	0	0	0	0
9/2/2024 13:34	41001	LAUR_T2	2	2	0	1.25	1.55	0.3	0	0	0	0	0	0	0	0
9/2/2024 13:34	53801	MBRG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/2/2024 13:34	41002	LAUR_T2	1	4	3	1.1	1.1	0	0.2	0.2	0	0	0	0	0	0
9/2/2024 13:39	55101	WERT_T1	0	0	0	0	0	0	-0.64	-0.62	2	2	0	1500	1500	0
9/2/2024 13:39	44301	BEAV_T2	1	4	3	0.9	0.63	-0.27	-1.18	-1.18	1	1	0	600	600	0
9/2/2024 13:39	44302	BEAV_T2	7	4	-3	0.46	0.45	-0.01	0	0	0	0	0	0	0	0
9/2/2024 13:40	44301	BEAV_T2	1	4	3	0.9	0.63	-0.27	0	0	0	0	0	0	0	0
9/2/2024 13:40	44302	BEAV_T2	7	4	-3	0.46	0.45	-0.01	0	0	0	0	0	0	0	0
9/2/2024 13:40	54602	SUMM_T2	0	0	0	0	0	0	-2.06	-2.1	1	1	0	600	600	0
9/2/2024 13:41	44301	BEAV_T2	1	4	3	0.9	0.63	-0.27	-1.18	-1.18	1	1	0	600	600	0
9/2/2024 13:41	44302	BEAV_T2	7	4	-3	0.46	0.45	-0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/2/2024 13:42	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 13:43	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
9/2/2024 13:44	16007	DORN_T1	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
9/2/2024 13:44	16005	DORN_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
9/2/2024 13:45	11102	EGYP_T1	1	1	0	0.2	0.1	-0.1	-0.02	0.01	0	0	0	0	0	0
9/2/2024 13:45	11104	EGYP_T1	3	5	2	0.33	0.8	0.47	0	0	0	0	0	0	0	0
9/2/2024 13:45	11101	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/2/2024 13:45	11507	FREE_T2	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
9/2/2024 13:46	46001	BERW_T1	1	0	-1	0.2	0	-0.2	0.82	0.85	0	0	0	0	0	0
9/2/2024 13:47	46102	MACI_T1	0	0	0	0	0	0	0.89	0.89	0	0	0	0	0	0
9/2/2024 13:49	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 13:49	16202	POFA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/2/2024 13:49	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 13:49	21206	ECAR_T2	1	1	0	7.7	7.5	-0.2	-0.14	-0.11	0	0	0	0	0	0
9/2/2024 13:49	16204	POFA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 13:49	16203	POFA_T2	3	3	0	0.13	0.17	0.04	0	0	0	0	0	0	0	0
9/2/2024 13:51	58703	ROSE_T2	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
9/2/2024 13:51	57106	SPHI_T2	3	3	0	1.03	1	-0.03	0	0	0	0	0	0	0	0
9/2/2024 13:51	58706	ROSE_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/2/2024 13:51	57101	SPHI_T2	6	6	0	0.52	0.37	-0.15	0	0	0	0	0	0	0	0
9/2/2024 13:51	57104	SPHI_T2	2	2	0	4.45	3	-1.45	-1.46	-1.41	1	1	0	900	900	0
9/2/2024 13:51	58705	ROSE_T2	6	6	0	1.55	1.72	0.17	0	0	0	0	0	0	0	0
9/2/2024 13:51	57103	SPHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/2/2024 13:52	41901	REED_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/2/2024 13:52	41902	REED_T1	0	0	0	0	0	0	1.16	1.1	0	0	0	0	0	0
9/2/2024 13:54	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 13:54	16203	POFA_T2	3	3	0	0.13	0.17	0.04	0	0	0	0	0	0	0	0
9/2/2024 13:54	64101	REFR_T1	0	0	0	0	0	0	1.37	1.36	0	0	0	0	0	0
9/2/2024 13:55	64101	REFR_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
9/2/2024 13:56	64101	REFR_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
9/2/2024 13:57	10707	CATA_T2	0	0	0	0	0	0	0.59	0.53	0	0	0	0	0	0
9/2/2024 13:57	10705	CATA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/2/2024 13:57	10702	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 13:58	64101	REFR_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
9/2/2024 14:02	61302	EARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/2/2024 14:02	61306	EARL_T1	0	0	0	0	0	0	-1.16	-1.16	0	0	0	0	0	0
9/2/2024 14:02	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 14:03	20601	GRWO_T2	2	0	-2	0.15	0	-0.15	0.75	0.76	0	0	0	0	0	0
9/2/2024 14:04	58402	MORO_T1	0	0	0	0	0	0	0.32	0.33	2	2	0	1500	1500	0
9/2/2024 14:04	10801	CHHI_T1	3	3	0	0.13	0.53	0.4	-0.95	-0.93	2	2	0	1500	1500	0
9/2/2024 14:06	47402	PENS_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 14:06	47403	PENS_T1	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
9/2/2024 14:06	47401	PENS_T1	0	2	2	0	0.3	0.3	0.9	0.75	0	0	0	0	0	0
9/2/2024 14:07	47403	PENS_T1	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
9/2/2024 14:07	55101	WERT_T1	0	0	0	0	0	0	-0.63	-0.58	2	2	0	1500	1500	0
9/2/2024 14:07	47401	PENS_T1	0	2	2	0	0.3	0.3	0.9	0.75	0	0	0	0	0	0
9/2/2024 14:07	47402	PENS_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 14:08	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.81	1	1	0	900	900	0
9/2/2024 14:08	41901	REED_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/2/2024 14:08	41902	REED_T1	0	0	0	0	0	0	1.1	1.1	0	0	0	0	0	0
9/2/2024 14:09	55101	WERT_T1	0	0	0	0	0	0	-0.63	-0.58	2	2	0	1500	1500	0
9/2/2024 14:09	44301	BEAV_T2	4	5	1	0.63	0.43	-0.2	-1.18	-1.26	1	1	0	600	600	0
9/2/2024 14:09	44302	BEAV_T2	2	3	1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
9/2/2024 14:09	15203	SFAR_T2	1	0	-1	0.4	0	-0.4	-0.62	-0.59	0	0	0	0	0	0
9/2/2024 14:10	64101	REFR_T1	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
9/2/2024 14:10	15203	SFAR_T2	1	0	-1	0.4	0	-0.4	-0.62	-0.59	0	0	0	0	0	0
9/2/2024 14:11	44301	BEAV_T2	4	5	1	0.63	0.43	-0.2	-1.18	-1.26	1	1	0	600	600	0
9/2/2024 14:11	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 14:11	45501	DERR_T2	0	2	2	0	0.4	0.4	0.26	0.28	1	1	0	600	600	0
9/2/2024 14:11	55101	WERT_T1	0	0	0	0	0	0	-0.63	-0.58	2	2	0	1500	1500	0
9/2/2024 14:11	44302	BEAV_T2	2	3	1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
9/2/2024 14:12	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 14:12	45501	DERR_T2	0	2	2	0	0.4	0.4	0.26	0.28	1	1	0	600	600	0
9/2/2024 14:13	45501	DERR_T2	0	2	2	0	0.4	0.4	0.26	0.28	1	1	0	600	600	0
9/2/2024 14:13	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 14:13	55101	WERT_T1	0	0	0	0	0	0	-0.63	-0.58	2	2	0	1500	1500	0
9/2/2024 14:14	47001	HUGH_T2	4	4	0	5.5	5.73	0.23	0	0	0	0	0	0	0	0
9/2/2024 14:14	45501	DERR_T2	0	2	2	0	0.4	0.4	0.26	0.28	1	1	0	600	600	0
9/2/2024 14:14	47002	HUGH_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
9/2/2024 14:14	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 14:15	11205	ELHE_T1	1	0	-1	3.7	0	-3.7	-0.34	-0.37	1	1	0	1200	1200	0
9/2/2024 14:15	11202	ELHE_T2	0	0	0	0	0	0	0.26	0.27	1	1	0	1200	1200	0
9/2/2024 14:17	63602	LETO_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
9/2/2024 14:17	64701	LITI_T1	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
9/2/2024 14:17	63601	LETO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 14:18	64203	KINZ_T1	0	0	0	0	0	0	0.21	0.22	1	1	0	600	600	0
9/2/2024 14:18	57306	MOAL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/2/2024 14:18	64204	KINZ_T1	1	32	31	0.3	0.33	0.03	0	0	0	0	0	0	0	0
9/2/2024 14:18	57303	MOAL_T2	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
9/2/2024 14:18	57302	MOAL_T2	0	0	0	0	0	0	-1.1	-1.11	1	1	0	1200	1200	0
9/2/2024 14:20	47502	NECO_T1	3	3	0	0.4	0.57	0.17	0.86	0.83	0	0	0	0	0	0
9/2/2024 14:22	44203	POIN_T2	0	0	0	0	0	0	0.06	0.12	1	1	0	900	900	0
9/2/2024 14:23	55101	WERT_T1	0	0	0	0	0	0	-0.58	-1.4	2	3	1	1500	2400	900
9/2/2024 14:24	41901	REED_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/2/2024 14:24	41902	REED_T1	0	1	1	0	0	0	1.1	1.11	0	0	0	0	0	0
9/2/2024 14:25	55101	WERT_T1	0	0	0	0	0	0	-0.58	-1.4	2	3	1	1500	2400	900
9/2/2024 14:26	60102	COCA_T1	0	0	0	0	0	0	-0.97	-1.06	1	1	0	600	600	0
9/2/2024 14:26	10705	CATA_T2	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
9/2/2024 14:26	60101	COCA_T1	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
9/2/2024 14:26	64101	REFR_T1	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
9/2/2024 14:27	60101	COCA_T1	2	2	0	0.75	0.75	0	0.82	0.81	0	0	0	0	0	0
9/2/2024 14:30	10801	CHHI_T1	2	3	1	0.6	0.93	0.33	-0.89	-0.92	2	2	0	1500	1500	0
9/2/2024 14:31	13101	NHAM_T1	4	3	-1	0.33	0.2	-0.13	-1.83	-1.83	2	2	0	2400	2400	0
9/2/2024 14:31	13104	NHAM_T1	0	11	11	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 14:31	60101	COCA_T1	2	2	0	0.75	0.6	-0.15	1.64	1.62	0	0	0	0	0	0
9/2/2024 14:32	51002	NHAR_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/2/2024 14:32	57005	WHHI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/2/2024 14:32	51004	NHAR_T1	2	2	0	3.3	3.3	0	-0.87	-0.87	0	0	0	0	0	0
9/2/2024 14:32	57006	WHHI_T2	1	2	1	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
9/2/2024 14:35	24202	PROV_T4	1	1	0	0.6	1.3	0.7	-0.26	-0.25	1	1	0	1200	1200	0
9/2/2024 14:36	57005	WHHI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/2/2024 14:36	58401	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 14:36	57006	WHHI_T2	1	2	1	0.8	0.3	-0.5	0.44	0.41	0	0	0	0	0	0
9/2/2024 14:36	58402	MORO_T1	0	0	0	0	0	0	0.35	0.33	2	2	0	1500	1500	0
9/2/2024 14:37	44202	POIN_T2	0	0	0	0	0	0	-0.75	-0.79	1	1	0	1200	1200	0
9/2/2024 14:39	43103	SMIL_T2	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
9/2/2024 14:39	43102	SMIL_T2	6	4	-2	0.17	0.18	0.01	-0.46	-0.46	1	1	0	600	600	0
9/2/2024 14:39	43101	SMIL_T2	1	2	1	1.1	0.65	-0.45	0	0	0	0	0	0	0	0
9/2/2024 14:39	43105	SMIL_T2	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/2/2024 14:39	44301	BEAV_T2	4	2	-2	0.35	0.25	-0.1	-1.32	-1.35	1	1	0	600	600	0
9/2/2024 14:39	43104	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/2/2024 14:39	44302	BEAV_T2	3	14	11	0.47	0.54	0.07	0	0	0	0	0	0	0	0
9/2/2024 14:40	67502	WEWI_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/2/2024 14:40	67503	WEWI_T2	1	1	0	6.1	6	-0.1	0.36	0.4	0	0	0	0	0	0
9/2/2024 14:41	43102	SMIL_T2	6	4	-2	0.17	0.18	0.01	0	0	0	0	0	0	0	0
9/2/2024 14:41	43101	SMIL_T2	1	2	1	1.1	0.65	-0.45	-0.5	-0.51	0	0	0	0	0	0
9/2/2024 14:41	43105	SMIL_T2	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/2/2024 14:41	43104	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/2/2024 14:41	43103	SMIL_T2	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
9/2/2024 14:42	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 14:42	14702	TREX_T2	0	0	0	0	0	0	0.95	0.92	0	0	0	0	0	0
9/2/2024 14:42	29402	BELT_T1	1	2	1	8.4	4.65	-3.75	0	0	0	0	0	0	0	0
9/2/2024 14:43	10801	CHHI_T1	2	3	1	0.6	0.93	0.33	-0.92	-1.52	2	3	1	1500	2100	600
9/2/2024 14:44	44801	EDAN_T2	8	14	6	0.48	0.36	-0.12	0	0	0	0	0	0	0	0
9/2/2024 14:44	44802	EDAN_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
9/2/2024 14:46	14702	TREX_T2	0	0	0	0	0	0	0.95	0.92	0	0	0	0	0	0
9/2/2024 14:46	14705	TREX_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
9/2/2024 14:49	48302	ORWI_T2	2	2	0	0.35	0.25	-0.1	-0.28	-0.25	0	0	0	0	0	0
9/2/2024 14:49	63602	LETO_T1	0	37	37	0	0	0	0.32	0.23	0	0	0	0	0	0
9/2/2024 14:50	57005	WHHI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/2/2024 14:50	57006	WHHI_T2	1	2	1	0.4	0.3	-0.1	0.41	0.4	0	0	0	0	0	0
9/2/2024 14:51	47403	PENS_T1	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
9/2/2024 14:51	41902	REED_T1	1	6	5	0.7	0.15	-0.55	0	0	0	0	0	0	0	0
9/2/2024 14:51	41903	REED_T1	0	0	0	0	0	0	1.92	1.79	0	0	0	0	0	0
9/2/2024 14:51	47402	PENS_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/2/2024 14:51	47401	PENS_T1	1	3	2	0.3	0.4	0.1	0.85	0.94	0	0	0	0	0	0
9/2/2024 14:51	51201	MTON_T1	4	0	-4	8.8	0	-8.8	0.43	0.5	0	0	0	0	0	0
9/2/2024 14:51	49803	UNIV_T1	1	2	1	5.2	2.85	-2.35	-1.97	-1.98	0	0	0	0	0	0
9/2/2024 14:52	24201	PROV_T3	1	1	0	6.5	6.6	0.1	-1.02	-1.03	1	1	0	1200	1200	0
9/2/2024 14:52	47402	PENS_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/2/2024 14:52	15702	TANN_T2	0	1	1	0	0.3	0.3	-0.16	-0.15	0	0	0	0	0	0
9/2/2024 14:52	47401	PENS_T1	1	3	2	0.3	0.4	0.1	1.69	1.88	0	0	0	0	0	0
9/2/2024 14:52	47403	PENS_T1	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
9/2/2024 14:52	44203	POIN_T2	0	0	0	0	0	0	0.13	0.09	1	1	0	900	900	0
9/2/2024 14:52	24204	PROV_T3	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
9/2/2024 14:52	15703	TANN_T2	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
9/2/2024 14:53	55002	NEWP_T1	5	4	-1	0.46	0.5	0.04	0	0	0	0	0	0	0	0
9/2/2024 14:53	55001	NEWP_T1	0	1	1	0	0	0	0.12	0.14	0	0	0	0	0	0
9/2/2024 14:53	49804	UNIV_T1	0	0	0	0	0	0	0.87	0.93	0	0	0	0	0	0
9/2/2024 14:53	49803	UNIV_T1	1	2	1	5.2	2.85	-2.35	0	0	0	0	0	0	0	0
9/2/2024 14:54	55001	NEWP_T1	0	1	1	0	0	0	0.12	0.14	0	0	0	0	0	0
9/2/2024 14:54	57401	SPAN_T1	4	4	0	0.58	1.13	0.55	0	0	0	0	0	0	0	0
9/2/2024 14:54	49803	UNIV_T1	1	2	1	5.2	2.85	-2.35	-1.97	-1.98	0	0	0	0	0	0
9/2/2024 14:54	57403	SPAN_T1	12	21	9	0.39	0.32	-0.07	0.37	0.39	0	0	0	0	0	0
9/2/2024 14:54	55002	NEWP_T1	5	4	-1	0.46	0.5	0.04	0	0	0	0	0	0	0	0
9/2/2024 14:56	57403	SPAN_T1	12	21	9	0.39	0.32	-0.07	0	0	0	0	0	0	0	0
9/2/2024 14:56	47402	PENS_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/2/2024 14:56	57401	SPAN_T1	4	4	0	0.58	1.13	0.55	-0.76	-0.66	2	2	0	1200	1200	0
9/2/2024 14:56	67001	STHI_T2	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
9/2/2024 14:56	47401	PENS_T1	1	3	2	0.3	0.4	0.1	0.85	0.94	0	0	0	0	0	0
9/2/2024 14:56	47403	PENS_T1	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
9/2/2024 14:57	60101	COCA_T1	2	2	0	0.6	0.3	-0.3	0.81	0.92	0	0	0	0	0	0
9/2/2024 14:57	49803	UNIV_T1	1	2	1	5.2	2.85	-2.35	-1.97	-1.98	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/2/2024 14:58	63401	HONY_T1	0	0	0	0	0	0	-0.47	-0.48	1	1	0	600	600	0
9/2/2024 15:00	11202	ELHE_T2	0	0	0	0	0	0	0.28	0.29	1	1	0	1200	1200	0
9/2/2024 15:01	11202	ELHE_T2	0	0	0	0	0	0	0.28	0.29	1	1	0	1200	1200	0
9/2/2024 15:02	21206	ECAR_T2	1	1	0	7.7	7.7	0	-0.19	-0.19	0	0	0	0	0	0
9/2/2024 15:02	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 15:03	47802	MOCA_T2	7	7	0	0.1	0.1	0	0.63	0.55	0	0	0	0	0	0
9/2/2024 15:06	47802	MOCA_T2	7	7	0	0.1	0.1	0	0.55	0.55	0	0	0	0	0	0
9/2/2024 15:09	21206	ECAR_T2	1	1	0	7.7	7.7	0	-0.19	-0.15	0	0	0	0	0	0
9/2/2024 15:09	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 15:10	57401	SPAN_T1	4	4	0	1.13	0.85	-0.28	0	0	0	0	0	0	0	0
9/2/2024 15:10	57403	SPAN_T1	19	27	8	0.33	0.29	-0.04	0.39	0.39	0	0	0	0	0	0
9/2/2024 15:12	57401	SPAN_T1	4	4	0	1.13	0.85	-0.28	-0.33	-0.41	1	1	0	600	600	0
9/2/2024 15:12	57403	SPAN_T1	19	27	8	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
9/2/2024 15:17	57403	SPAN_T1	14	27	13	0.25	0.31	0.06	0	0	0	0	0	0	0	0
9/2/2024 15:17	57401	SPAN_T1	4	4	0	0.63	0.85	0.22	-0.33	-0.41	1	1	0	600	600	0
9/2/2024 15:17	63501	HEID_TBK1-2	47	47	0	1.2	0.71	-0.49	0.38	0.35	1	1	0	900	900	0
9/2/2024 15:17	44301	BEAV_T2	4	3	-1	0.1	0.17	0.07	-1.35	-1.38	1	1	0	600	600	0
9/2/2024 15:17	44302	BEAV_T2	11	11	0	0.61	0.52	-0.09	0	0	0	0	0	0	0	0
9/2/2024 15:17	47802	MOCA_T2	7	5	-2	0.1	0.1	0	0.55	0.55	0	0	0	0	0	0
9/2/2024 15:21	51702	OBER_T1	3	2	-1	1.87	2.6	0.73	-0.39	-0.42	1	1	0	600	600	0
9/2/2024 15:22	52402	GRPA_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 15:22	47403	PENS_T1	1	2	1	0.1	1.05	0.95	0	0	0	0	0	0	0	0
9/2/2024 15:22	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/2/2024 15:22	52403	GRPA_T2	0	2	2	0	0.8	0.8	0.15	0.13	0	0	0	0	0	0
9/2/2024 15:22	47401	PENS_T1	1	2	1	0.2	0.55	0.35	0.84	0.77	0	0	0	0	0	0
9/2/2024 15:25	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 15:26	46001	BERW_T1	0	0	0	0	0	0	0.88	0.88	0	0	0	0	0	0
9/2/2024 15:27	57403	SPAN_T1	14	27	13	0.25	0.31	0.06	0	0	0	0	0	0	0	0
9/2/2024 15:27	57401	SPAN_T1	4	4	0	0.63	0.85	0.22	-0.41	-0.25	1	1	0	600	600	0
9/2/2024 15:27	29402	BELT_T1	1	1	0	8.3	8.6	0.3	0	0	0	0	0	0	0	0
9/2/2024 15:27	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 15:28	57401	SPAN_T1	4	4	0	0.63	0.85	0.22	-0.41	-0.25	1	1	0	600	600	0
9/2/2024 15:28	57403	SPAN_T1	14	27	13	0.25	0.31	0.06	0	0	0	0	0	0	0	0
9/2/2024 15:29	67503	WEWI_T2	1	1	0	5.8	5.8	0	0.39	0.38	0	0	0	0	0	0
9/2/2024 15:30	57403	SPAN_T1	25	17	-8	0.3	0.28	-0.02	0.78	0.77	0	0	0	0	0	0
9/2/2024 15:30	57401	SPAN_T1	4	4	0	0.85	0.58	-0.27	0	0	0	0	0	0	0	0
9/2/2024 15:31	20601	GRWO_T2	1	3	2	0.2	0	-0.2	0.72	0.76	0	0	0	0	0	0
9/2/2024 15:31	46001	BERW_T1	0	0	0	0	0	0	0.88	0.88	0	0	0	0	0	0
9/2/2024 15:32	52403	GRPA_T2	1	2	1	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
9/2/2024 15:32	52404	GRPA_T2	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
9/2/2024 15:32	46001	BERW_T1	0	0	0	0	0	0	0.88	0.88	0	0	0	0	0	0
9/2/2024 15:33	51704	OBER_T1	0	0	0	0	0	0	-1.28	-1.28	1	1	0	1200	1200	0
9/2/2024 15:33	51702	OBER_T1	2	2	0	2.4	2.65	0.25	0	0	0	0	0	0	0	0
9/2/2024 15:37	51704	OBER_T1	0	0	0	0	0	0	-1.28	-1.3	1	1	0	1200	1200	0
9/2/2024 15:37	41901	REED_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/2/2024 15:37	51702	OBER_T1	2	2	0	2.4	2.65	0.25	0	0	0	0	0	0	0	0
9/2/2024 15:37	41902	REED_T1	1	1	0	0.1	0.2	0.1	1.11	1.09	0	0	0	0	0	0
9/2/2024 15:37	64101	REFR_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
9/2/2024 15:39	64101	REFR_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
9/2/2024 15:41	44301	BEAV_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/2/2024 15:41	44302	BEAV_T2	11	3	-8	0.52	0.53	0.01	0	0	0	0	0	0	0	0
9/2/2024 15:42	44301	BEAV_T2	1	2	1	0.1	0.4	0.3	-1.39	-1.36	1	1	0	600	600	0
9/2/2024 15:42	44302	BEAV_T2	11	3	-8	0.52	0.53	0.01	0	0	0	0	0	0	0	0
9/2/2024 15:43	44302	BEAV_T2	11	3	-8	0.52	0.53	0.01	0	0	0	0	0	0	0	0
9/2/2024 15:43	44301	BEAV_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/2/2024 15:45	67503	WEWI_T2	1	1	0	5.7	5.7	0	0.38	0.39	0	0	0	0	0	0
9/2/2024 15:46	53601	DALM_T2	1	1	0	0.1	0.3	0.2	0	-0.04	0	0	0	0	0	0
9/2/2024 15:47	40101	HUNT_T2	2	8	6	1.35	0.7	-0.65	-0.51	-0.52	0	0	0	0	0	0
9/2/2024 15:48	28403	HART_T2	0	0	0	0	0	0	-0.53	-0.56	1	1	0	900	900	0
9/2/2024 15:51	15603	NSTR_T2	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
9/2/2024 15:53	52403	GRPA_T2	2	2	0	0.25	0.2	-0.05	0.16	0.15	0	0	0	0	0	0
9/2/2024 16:00	67503	WEWI_T2	1	1	0	5.7	5.6	-0.1	0.39	0.39	0	0	0	0	0	0
9/2/2024 16:02	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
9/2/2024 16:03	12302	LANA_T2	0	1	1	0	0	0	-2.2	-2.16	3	3	0	2700	2700	0
9/2/2024 16:03	12301	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 16:03	12305	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 16:05	52002	LING_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/2/2024 16:05	52004	LING_T2	2	2	0	4.7	4.7	0	0.36	0.37	0	0	0	0	0	0
9/2/2024 16:07	17002	RIRO_T2	1	1	0	1.6	1.2	-0.4	0.65	0.64	0	0	0	0	0	0
9/2/2024 16:08	41902	REED_T1	1	1	0	0.2	0.1	-0.1	1.09	1.1	0	0	0	0	0	0
9/2/2024 16:08	41901	REED_T1	2	4	2	0.15	0.18	0.03	0	0	0	0	0	0	0	0
9/2/2024 16:13	63601	LETO_T1	0	0	0	0	0	0	0.53	0.77	1	1	0	900	900	0
9/2/2024 16:14	40201	BEGA_T2	2	2	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
9/2/2024 16:16	63601	LETO_T1	0	0	0	0	0	0	0.53	0.77	1	1	0	900	900	0
9/2/2024 16:18	52004	LING_T2	2	2	0	4.7	4.7	0	0.37	0.36	0	0	0	0	0	0
9/2/2024 16:19	12005	HATF_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
9/2/2024 16:19	12006	HATF_T1	0	0	0	0	0	0	0.89	0.92	0	0	0	0	0	0
9/2/2024 16:19	12002	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 16:19	12007	HATF_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/2/2024 16:20	46903	MNTG_T2	0	0	0	0	0	0	0.21	0.24	1	1	0	600	600	0
9/2/2024 16:21	55002	NEWP_T1	4	2	-2	0.63	0.75	0.12	0	0	0	0	0	0	0	0
9/2/2024 16:21	47401	PENS_T1	1	0	-1	0.6	0	-0.6	0.89	0.84	0	0	0	0	0	0
9/2/2024 16:21	64904	MILL_T1	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
9/2/2024 16:21	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.46	-0.45	1	1	0	600	600	0
9/2/2024 16:21	47402	PENS_T1	2	0	-2	1.05	0	-1.05	0	0	0	0	0	0	0	0
9/2/2024 16:21	47403	PENS_T1	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
9/2/2024 16:23	48902	FOSP_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
9/2/2024 16:26	64101	REFR_T1	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
9/2/2024 16:26	47401	PENS_T1	1	0	-1	0.6	0	-0.6	0.89	0.84	0	0	0	0	0	0
9/2/2024 16:26	47402	PENS_T1	2	0	-2	1.05	0	-1.05	0	0	0	0	0	0	0	0
9/2/2024 16:26	47403	PENS_T1	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
9/2/2024 16:28	53601	DALM_T2	1	1	0	0.1	0.2	0.1	0.07	0.01	0	0	0	0	0	0
9/2/2024 16:28	44302	BEAV_T2	4	3	-1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
9/2/2024 16:28	44301	BEAV_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/2/2024 16:30	22904	HARW_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
9/2/2024 16:30	42802	SELI_T1	0	0	0	0	0	0	-0.86	-0.81	1	1	0	900	900	0
9/2/2024 16:32	40101	HUNT_T2	5	4	-1	0.34	0.4	0.06	0	0	0	0	0	0	0	0
9/2/2024 16:32	23202	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
9/2/2024 16:33	25402	LAHA_T2	0	0	0	0	0	0	-0.4	-0.45	0	0	0	0	0	0
9/2/2024 16:35	23502	GEOR_T1	0	0	0	0	0	0	-1.26	-1.09	1	1	0	1200	1200	0
9/2/2024 16:35	42903	MIDD_T2	2	2	0	0.85	0.95	0.1	-0.11	-0.49	0	0	0	0	0	0
9/2/2024 16:37	67503	WEWI_T2	1	1	0	5.3	5.3	0	0.41	0.38	0	0	0	0	0	0
9/2/2024 16:45	46001	BERW_T1	0	0	0	0	0	0	0.86	0.83	0	0	0	0	0	0
9/2/2024 16:46	46801	HEPB_T2	2	2	0	1.2	1.25	0.05	-0.1	-0.07	0	0	0	0	0	0
9/2/2024 16:46	45802	HEGI_T2	38	16	-22	0.71	0.36	-0.35	0.13	0.78	1	1	0	300	300	0
9/2/2024 16:48	59202	THOM_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/2/2024 16:48	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 16:50	59202	THOM_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/2/2024 16:50	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 16:51	59202	THOM_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/2/2024 16:51	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 16:55	44301	BEAV_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
9/2/2024 16:56	11903	ETEX_T1	0	0	0	0	0	0	1.04	0.98	0	0	0	0	0	0
9/2/2024 16:57	45501	DERR_T2	0	0	0	0	0	0	0.24	0.26	1	1	0	600	600	0
9/2/2024 16:57	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 16:57	40502	CRES_T2	5	8	3	0.2	0.23	0.03	-0.02	-0.03	0	0	0	0	0	0
9/2/2024 17:00	40502	CRES_T2	5	10	5	0.18	0.24	0.06	-0.02	-0.03	0	0	0	0	0	0
9/2/2024 17:00	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 17:00	45501	DERR_T2	0	0	0	0	0	0	0.49	0.52	2	2	0	1200	1200	0
9/2/2024 17:01	47802	MOCA_T2	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
9/2/2024 17:14	67503	WEWI_T2	1	1	0	5	5.1	0.1	0.39	0.37	0	0	0	0	0	0
9/2/2024 17:18	12701	MACU_T1	1	1	0	0.1	0	-0.1	0.31	0.28	0	0	0	0	0	0
9/2/2024 17:19	59201	THOM_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
9/2/2024 17:19	59202	THOM_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/2/2024 17:20	64503	LAVI_T1	0	0	0	0	0	0	-1.73	-1.79	1	1	0	1200	1200	0
9/2/2024 17:21	59201	THOM_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
9/2/2024 17:21	59202	THOM_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/2/2024 17:29	10602	BLGL_T2	1	1	0	9	9	0	0.63	0.58	0	0	0	0	0	0
9/2/2024 17:30	53601	DALM_T2	0	1	1	0	0.3	0.3	0.06	-0.02	0	0	0	0	0	0
9/2/2024 17:31	64701	LITI_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
9/2/2024 17:32	24702	FLND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 17:33	64701	LITI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 17:38	58701	ROSE_T2	0	0	0	0	0	0	-1.14	-1.17	1	1	0	600	600	0
9/2/2024 17:38	58705	ROSE_T2	5	5	0	2.12	2.26	0.14	0	0	0	0	0	0	0	0
9/2/2024 17:39	58701	ROSE_T2	0	0	0	0	0	0	-1.14	-1.17	1	1	0	600	600	0
9/2/2024 17:39	58705	ROSE_T2	5	5	0	2.12	2.26	0.14	0	0	0	0	0	0	0	0
9/2/2024 17:40	58701	ROSE_T2	0	0	0	0	0	0	-1.14	-1.17	1	1	0	600	600	0
9/2/2024 17:40	58705	ROSE_T2	5	5	0	2.12	2.26	0.14	0	0	0	0	0	0	0	0
9/2/2024 17:54	57403	SPAN_T1	11	16	5	0.2	0.33	0.13	0	0	0	0	0	0	0	0
9/2/2024 17:54	57401	SPAN_T1	2	2	0	0.4	0.4	0	-0.42	-0.46	1	1	0	600	600	0
9/2/2024 18:04	22701	MINO_T1	0	0	0	0	0	0	-0.14	-0.05	0	0	0	0	0	0
9/2/2024 18:13	67503	WEWI_T2	1	1	0	5.3	5.8	0.5	0.38	0.39	0	0	0	0	0	0
9/2/2024 18:16	50105	HARR_T3	6	6	0	6.77	6.6	-0.17	0	0	0	0	0	0	0	0
9/2/2024 18:16	50201	HARR_T3	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/2/2024 18:16	50107	HARR_T3	1	1	0	6.8	6.3	-0.5	0	0	0	0	0	0	0	0
9/2/2024 18:17	65804	RTWN_T1	0	0	0	0	0	0	0.4	0.37	1	1	0	600	600	0
9/2/2024 18:18	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/2/2024 18:18	53802	MBRG_T2	0	4	4	0	0.1	0.1	-0.1	-0.16	0	0	0	0	0	0
9/2/2024 18:18	54506	ENOL_T2	0	0	0	0	0	0	-0.31	-0.33	1	1	0	600	600	0
9/2/2024 18:22	14601	SWHI_T1	0	0	0	0	0	0	-1.03	-1.01	0	0	0	0	0	0
9/2/2024 18:22	14602	SWHI_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/2/2024 18:22	53802	MBRG_T2	0	4	4	0	0.1	0.1	-0.16	-0.05	0	0	0	0	0	0
9/2/2024 18:29	24702	FLND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 18:30	48902	FOSP_T2	0	0	0	0	0	0	-0.14	-0.18	0	0	0	0	0	0
9/2/2024 18:34	48902	FOSP_T2	0	0	0	0	0	0	-0.14	-0.18	0	0	0	0	0	0
9/2/2024 18:49	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 18:49	13101	NHAM_T1	0	0	0	0	0	0	-1.03	-1.08	1	1	0	1200	1200	0
9/2/2024 18:50	59002	MIFF_T1	5	5	0	0.94	1.08	0.14	0	0	0	0	0	0	0	0
9/2/2024 18:50	59003	MIFF_T1	1	1	0	0.7	0.9	0.2	0.52	0.5	0	0	0	0	0	0
9/2/2024 18:51	13101	NHAM_T1	0	0	0	0	0	0	-1.08	-1.16	1	1	0	1200	1200	0
9/2/2024 18:56	62105	ELAN_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 18:56	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/2/2024 18:56	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/2/2024 18:56	62103	ELAN_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/2/2024 18:56	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 18:59	63305	GREE_T1	6	3	-3	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/2/2024 18:59	63302	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 18:59	62105	ELAN_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 18:59	63304	GREE_T1	0	0	0	0	0	0	-1.22	-1.29	0	0	0	0	0	0
9/2/2024 18:59	62103	ELAN_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/2/2024 18:59	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/2/2024 18:59	63301	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 18:59	62106	ELAN_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
9/2/2024 19:01	63501	HEID_TBK1-2	47	46	-1	0.64	0.66	0.02	0.06	0.06	1	1	0	900	900	0
9/2/2024 19:04	65001	NEFF_T2	0	29	29	0	0.14	0.14	0	0	0	0	0	0	0	0
9/2/2024 19:04	65003	NEFF_T2	4	29	25	0.13	0.17	0.04	-1.71	-1.81	2	2	0	1800	1800	0
9/2/2024 19:11	20403	ASHF_T2	3	3	0	0.27	0.23	-0.04	0.46	0.44	0	0	0	0	0	0
9/2/2024 19:11	20401	ASHF_T2	16	12	-4	0.46	0.51	0.05	0	0	0	0	0	0	0	0
9/2/2024 19:11	20402	ASHF_T2	15	15	0	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
9/2/2024 19:12	61103	BERK_T5	0	0	0	0	0	0	0.42	0.38	0	0	0	0	0	0
9/2/2024 19:13	45501	DERR_T2	0	0	0	0	0	0	0.07	0.22	1	1	0	600	600	0
9/2/2024 19:14	45501	DERR_T2	0	0	0	0	0	0	0.07	0.22	1	1	0	600	600	0
9/2/2024 19:18	12005	HATF_T1	1	4	3	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
9/2/2024 19:18	12002	HATF_T1	0	0	0	0	0	0	-1.31	-1.34	1	1	0	1200	1200	0
9/2/2024 19:27	46001	BERW_T1	0	0	0	0	0	0	0.77	0.76	0	0	0	0	0	0
9/2/2024 20:07	16402	MOPO_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
9/2/2024 20:08	47103	MARL_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
9/2/2024 20:08	47102	MARL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 20:10	40802	EXCH_T2	3	3	0	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/2/2024 20:10	40801	EXCH_T2	3	3	0	0.27	0.33	0.06	-0.31	-0.22	1	1	0	1200	1200	0
9/2/2024 20:21	64305	LINC_T1	0	0	0	0	0	0	-0.45	-0.48	0	0	0	0	0	0
9/2/2024 20:23	58202	NEWV_T1	0	0	0	0	0	0	0.36	0.32	0	0	0	0	0	0
9/2/2024 20:25	58202	NEWV_T1	0	0	0	0	0	0	0.36	0.32	0	0	0	0	0	0
9/2/2024 20:25	43201	MVIL_T2	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
9/2/2024 20:25	43202	MVIL_T2	74	103	29	0.81	1.05	0.24	-1.22	-1.28	0	0	0	0	0	0
9/2/2024 20:28	50302	CEDA_T2	0	0	0	0	0	0	-0.26	-0.28	1	1	0	1200	1200	0
9/2/2024 20:36	67605	WARW_T1	6	20	14	0.43	0.49	0.06	-0.97	-1.01	0	0	0	0	0	0
9/2/2024 20:39	67605	WARW_T1	6	20	14	0.43	0.49	0.06	-0.97	-1.01	0	0	0	0	0	0
9/2/2024 20:42	67605	WARW_T1	6	20	14	0.43	0.49	0.06	-0.97	-1.01	0	0	0	0	0	0
9/2/2024 20:43	67605	WARW_T1	6	20	14	0.43	0.49	0.06	-0.97	-1.01	0	0	0	0	0	0
9/2/2024 20:44	21501	CEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 20:46	67605	WARW_T1	12	21	9	0.31	0.56	0.25	0	0	0	0	0	0	0	0
9/2/2024 20:46	67603	WARW_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
9/2/2024 20:47	67605	WARW_T1	12	21	9	0.31	0.56	0.25	-1.93	-2.01	0	0	0	0	0	0
9/2/2024 20:47	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.65	0	0	0	0	0	0
9/2/2024 20:54	64602	LEOL_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
9/2/2024 21:03	63804	HEMP_T1	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
9/2/2024 21:03	63801	HEMP_T1	0	0	0	0	0	0	-0.85	-0.75	1	1	0	900	900	0
9/2/2024 21:06	63804	HEMP_T1	1	1	0	5.2	5	-0.2	-0.14	-0.19	0	0	0	0	0	0
9/2/2024 21:09	16103	BING_T2	0	0	0	0	0	0	-1.35	-1.43	1	1	0	900	900	0
9/2/2024 21:09	16102	BING_T2	1	11	10	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/2/2024 21:22	56501	ROCK_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
9/2/2024 21:23	17002	RIRO_T2	41	41	0	0.17	0.16	-0.01	0.43	0.41	0	0	0	0	0	0
9/2/2024 21:23	56501	ROCK_T2	0	0	0	0	0	0	0.3	0.21	0	0	0	0	0	0
9/2/2024 21:24	56501	ROCK_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
9/2/2024 21:25	10602	BLGL_T2	0	0	0	0	0	0	0.23	0.15	0	0	0	0	0	0
9/2/2024 21:25	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 21:26	24801	VALM_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
9/2/2024 21:26	23202	HIRU_T2	3	9	6	0.1	0.12	0.02	0.11	0.11	0	0	0	0	0	0
9/2/2024 21:26	23201	HIHI_T2	3	26	23	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
9/2/2024 21:26	23203	HIRU_T2	9	14	5	0.16	0.12	-0.04	0	0	0	0	0	0	0	0
9/2/2024 21:28	45602	WOOL_T1	0	0	0	0	0	0	1.39	1.3	0	0	0	0	0	0
9/2/2024 21:28	62604	ENGL_T1	0	3	3	0	0.1	0.1	-0.56	-0.56	1	1	0	600	600	0
9/2/2024 21:29	45602	WOOL_T1	0	0	0	0	0	0	0.7	0.65	0	0	0	0	0	0
9/2/2024 21:29	26401	INOR_T1	1	1	0	7.1	8.9	1.8	0.44	0.42	0	0	0	0	0	0
9/2/2024 21:29	14702	TREX_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
9/2/2024 21:30	15703	TANN_T2	1	1	0	4.8	4.7	-0.1	0	0	0	0	0	0	0	0
9/2/2024 21:30	50201	HARR_T3	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
9/2/2024 21:30	15601	NSTR_T2	3	3	0	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
9/2/2024 21:30	15604	NSTR_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
9/2/2024 21:30	16101	BING_T2	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
9/2/2024 21:30	58702	ROSE_T2	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
9/2/2024 21:30	15603	NSTR_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
9/2/2024 21:30	15203	SFAR_T2	0	10	10	0	0.1	0.1	-1.04	-1.07	0	0	0	0	0	0
9/2/2024 21:30	50102	HARR_T3	13	7	-6	0.28	0.14	-0.14	0	0	0	0	0	0	0	0
9/2/2024 21:30	58705	ROSE_T2	5	5	0	3.18	3.32	0.14	0	0	0	0	0	0	0	0
9/2/2024 21:30	50105	HARR_T3	6	6	0	5.95	6.12	0.17	0	0	0	0	0	0	0	0
9/2/2024 21:30	15702	TANN_T2	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
9/2/2024 21:30	16402	MOPO_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
9/2/2024 21:30	50103	HARR_T3	3	2	-1	0.5	0.5	0	0	0	0	0	0	0	0	0
9/2/2024 21:30	50107	HARR_T3	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:30	50202	HARR_T3	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/2/2024 21:30	16102	BING_T2	10	17	7	0.16	0.37	0.21	0	0	0	0	0	0	0	0
9/2/2024 21:31	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 21:31	63602	LETO_T1	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
9/2/2024 21:31	12701	MACU_T1	0	1	1	0	0.1	0.1	-1.09	-1.1	1	1	0	1200	1200	0
9/2/2024 21:31	63601	LETO_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 21:32	63402	HONY_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:32	51002	NHAR_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:32	51004	NHAR_T1	1	1	0	5.8	5.8	0	-1.09	-1.11	0	0	0	0	0	0
9/2/2024 21:32	45901	AUBU_T1	423	484	61	0.62	0.7	0.08	0	0	0	0	0	0	0	0
9/2/2024 21:32	45902	AUBU_T1	739	831	92	0.92	1.05	0.13	-0.74	-0.69	0	0	0	0	0	0
9/2/2024 21:32	63403	HONY_T2	0	0	0	0	0	0	0.32	0.37	0	0	0	0	0	0
9/2/2024 21:33	12004	HATF_T1	0	11	11	0	0.11	0.11	0	0	0	0	0	0	0	0
9/2/2024 21:33	20603	GRWO_T2	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
9/2/2024 21:33	24702	FLND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 21:33	45901	AUBU_T1	423	484	61	0.62	0.7	0.08	0.35	0.34	0	0	0	0	0	0
9/2/2024 21:33	12005	HATF_T1	5	4	-1	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
9/2/2024 21:33	20601	GRWO_T2	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
9/2/2024 21:33	13503	MCMI_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
9/2/2024 21:33	45902	AUBU_T1	739	831	92	0.92	1.05	0.13	0	0	0	0	0	0	0	0
9/2/2024 21:33	12001	HATF_T1	0	3	3	0	0.1	0.1	0.06	0.06	1	1	0	600	600	0
9/2/2024 21:33	12002	HATF_T1	0	35	35	0	0.11	0.11	0	0	0	0	0	0	0	0
9/2/2024 21:34	25402	LAHA_T2	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
9/2/2024 21:34	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	1	1	0	900	900
9/2/2024 21:34	29402	BELT_T1	1	1	0	7.4	7.9	0.5	0	0	0	0	0	0	0	0
9/2/2024 21:34	45902	AUBU_T1	739	831	92	0.92	1.05	0.13	-0.74	-0.69	0	0	0	0	0	0
9/2/2024 21:34	13503	MCMI_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
9/2/2024 21:34	48901	FOSP_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
9/2/2024 21:34	11903	ETEX_T1	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
9/2/2024 21:34	45901	AUBU_T1	423	484	61	0.62	0.7	0.08	0	0	0	0	0	0	0	0
9/2/2024 21:35	56504	ROCK_T2	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
9/2/2024 21:35	47802	MOCA_T2	10	10	0	0.79	0.74	-0.05	0.45	0.44	0	0	0	0	0	0
9/2/2024 21:35	47002	HUGH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:35	47001	HUGH_T2	3	5	2	9.03	5.64	-3.39	-0.79	-0.83	0	0	0	0	0	0
9/2/2024 21:35	58705	ROSE_T2	5	5	0	3.18	3.32	0.14	0	0	0	0	0	0	0	0
9/2/2024 21:35	62105	ELAN_T1	171	160	-11	0.26	0.21	-0.05	0	0	0	0	0	0	0	0
9/2/2024 21:35	50701	SMEC_T1	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
9/2/2024 21:35	46802	HEPB_T1	1	1	0	0.8	1.1	0.3	-0.15	-0.17	0	0	0	0	0	0
9/2/2024 21:35	29402	BELT_T1	1	1	0	7.4	7.9	0.5	0	0	0	0	0	0	0	0
9/2/2024 21:35	52002	LING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/2/2024 21:35	58701	ROSE_T2	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
9/2/2024 21:35	62102	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/2/2024 21:35	11202	ELHE_T2	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
9/2/2024 21:35	52006	LING_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/2/2024 21:35	23102	MOSC_T2	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
9/2/2024 21:35	13905	SEID_T1	0	0	0	0	0	0	-0.89	-0.88	1	1	0	1200	1200	0
9/2/2024 21:35	56501	ROCK_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:35	63501	HEID_TBK1-2	18	48	30	0.39	0.52	0.13	-0.14	0.8	1	0	-1	900	0	-900
9/2/2024 21:35	62103	ELAN_T1	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
9/2/2024 21:35	63602	LETO_T1	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
9/2/2024 21:35	10805	CHHI_T2	1	1	0	7.4	7.2	-0.2	-1.07	-1.11	1	1	0	600	600	0
9/2/2024 21:35	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:35	59201	THOM_T1	21	21	0	0.32	0.42	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:35	59202	THOM_T1	122	237	115	0.2	0.22	0.02	0	0	0	0	0	0	0	0
9/2/2024 21:35	62106	ELAN_T1	18	21	3	0.19	0.18	-0.01	0.02	0	0	0	0	0	0	0
9/2/2024 21:35	52004	LING_T2	2	2	0	6.15	6.2	0.05	0.26	0.23	0	0	0	0	0	0
9/2/2024 21:35	62101	ELAN_T1	4	3	-1	0.28	0.4	0.12	0	0	0	0	0	0	0	0
9/2/2024 21:35	63601	LETO_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 21:36	63601	LETO_T1	4	0	-4	0.1	0	-0.1	3.12	3.26	2	0	-2	1800	0	-1800
9/2/2024 21:36	29402	BELT_T1	1	1	0	7.4	7.9	0.5	0	0	0	0	0	0	0	0
9/2/2024 21:36	12807	MICK_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/2/2024 21:36	12801	MICK_T1	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
9/2/2024 21:36	14702	TREX_T2	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
9/2/2024 21:36	65001	NEFF_T2	188	14	-174	0.23	0.11	-0.12	-1.25	0.08	1	1	0	1200	1200	0
9/2/2024 21:36	65003	NEFF_T2	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
9/2/2024 21:36	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	1	1	0	900	900
9/2/2024 21:36	14801	TREI_T2	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
9/2/2024 21:36	15702	TANN_T2	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
9/2/2024 21:36	21204	ECAR_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:36	11104	EGYP_T1	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
9/2/2024 21:36	21206	ECAR_T2	1	2	1	8.2	8.4	0.2	-0.35	-0.34	0	0	0	0	0	0
9/2/2024 21:36	55101	WERT_T1	0	0	0	0	0	0	-1.29	-1.34	2	2	0	1500	1500	0
9/2/2024 21:36	48301	ORWI_T1	2	2	0	4.9	4.7	-0.2	0.34	0.39	0	0	0	0	0	0
9/2/2024 21:36	57005	WHHI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:36	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 21:36	15703	TANN_T2	1	1	0	4.8	4.7	-0.1	0	0	0	0	0	0	0	0
9/2/2024 21:36	57006	WHHI_T2	33	74	41	0.16	0.19	0.03	0.24	0.22	0	0	0	0	0	0
9/2/2024 21:37	50701	SMEC_T1	0	0	0	0	0	0	0.57	0.53	0	0	0	0	0	0
9/2/2024 21:37	67804	WLAN_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
9/2/2024 21:37	24102	EHAZ_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
9/2/2024 21:37	63401	HONY_T1	0	0	0	0	0	0	-0.46	-0.56	1	1	0	600	600	0
9/2/2024 21:37	67802	WLAN_T1	1	11	10	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/2/2024 21:37	67702	WERN_T2	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
9/2/2024 21:37	47401	PENS_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
9/2/2024 21:37	59202	THOM_T1	122	237	115	0.2	0.22	0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/2/2024 21:37	40601	PIGR_T1	119	0	-119	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/2/2024 21:37	67801	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:37	40201	BEGA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/2/2024 21:37	60101	COCA_T1	0	0	0	0	0	0	0.87	0.84	0	0	0	0	0	0
9/2/2024 21:37	67002	STHI_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
9/2/2024 21:37	63404	HONY_T1	28	110	82	0.23	0.29	0.06	0	0	0	0	0	0	0	0
9/2/2024 21:37	66901	SHIL_T2	35	186	151	0.11	0.2	0.09	-1.58	-1.6	1	1	0	1200	1200	0
9/2/2024 21:37	11507	FREE_T2	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
9/2/2024 21:37	57005	WHHI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:37	24105	EHAZ_T1	4	4	0	6.78	6.03	-0.75	0	0	0	0	0	0	0	0
9/2/2024 21:37	67805	WLAN_T1	470	517	47	0.32	0.45	0.13	-1.46	-1.44	0	0	0	0	0	0
9/2/2024 21:37	28704	HAML_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/2/2024 21:37	40602	PIGR_T1	1	1	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
9/2/2024 21:37	63501	HEID_TBK1-2	18	48	30	0.39	0.52	0.13	0.8	0.69	0	0	0	0	0	0
9/2/2024 21:37	67401	WAKE_T2	20	37	17	0.15	0.19	0.04	0	0	0	0	0	0	0	0
9/2/2024 21:37	28703	HAML_T2	1	3	2	0.1	0.43	0.33	0	0	0	0	0	0	0	0
9/2/2024 21:37	57006	WHHI_T2	33	74	41	0.16	0.19	0.03	0	0	0	0	0	0	0	0
9/2/2024 21:37	64503	LAVI_T1	0	0	0	0	0	0	-0.55	-0.79	1	0	-1	1200	0	-1200
9/2/2024 21:37	59201	THOM_T1	21	21	0	0.32	0.42	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:37	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:37	28702	HAML_T2	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
9/2/2024 21:37	67402	WAKE_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
9/2/2024 21:37	48302	ORWI_T2	2	2	0	0.85	1.2	0.35	-0.02	-0.03	0	0	0	0	0	0
9/2/2024 21:37	66902	SHIL_T2	7	93	86	0.11	0.14	0.03	0	0	0	0	0	0	0	0
9/2/2024 21:38	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 21:38	56501	ROCK_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:38	45901	AUBU_T1	423	484	61	0.62	0.7	0.08	0	0	0	0	0	0	0	0
9/2/2024 21:38	67503	WEWI_T2	1	1	0	7.7	8.5	0.8	0.07	0.07	0	0	0	0	0	0
9/2/2024 21:38	56504	ROCK_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
9/2/2024 21:38	45902	AUBU_T1	739	831	92	0.92	1.05	0.13	-1.37	-1.37	0	0	0	0	0	0
9/2/2024 21:38	58705	ROSE_T2	5	5	0	3.18	3.32	0.14	0	0	0	0	0	0	0	0
9/2/2024 21:38	50103	HARR_T3	3	2	-1	0.5	0.5	0	0	0	0	0	0	0	0	0
9/2/2024 21:38	43801	SWIL_T1	9	12	3	0.82	0.76	-0.06	0	0	0	0	0	0	0	0
9/2/2024 21:38	20402	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/2/2024 21:38	50201	HARR_T3	1	1	0	1.3	1.1	-0.2	-0.54	-0.5	1	1	0	1200	1200	0
9/2/2024 21:38	20401	ASHF_T2	7	3	-4	0.47	0.53	0.06	0	0	0	0	0	0	0	0
9/2/2024 21:38	25503	MADI_T1	12	62	50	0.16	0.21	0.05	-0.94	-0.98	0	0	0	0	0	0
9/2/2024 21:38	60101	COCA_T1	0	0	0	0	0	0	0.87	0.84	0	0	0	0	0	0
9/2/2024 21:38	63501	HEID_TBK1-2	18	48	30	0.39	0.52	0.13	0.8	0.69	0	0	0	0	0	0
9/2/2024 21:38	50107	HARR_T3	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:38	25501	MADI_T1	3	4	1	1.67	1.35	-0.32	0	0	0	0	0	0	0	0
9/2/2024 21:38	50105	HARR_T3	6	6	0	5.95	6.12	0.17	0	0	0	0	0	0	0	0
9/2/2024 21:38	20403	ASHF_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
9/2/2024 21:38	47901	HRDG_T1	0	0	0	0	0	0	1.13	1.03	0	0	0	0	0	0
9/2/2024 21:38	58701	ROSE_T2	0	0	0	0	0	0	-0.73	-0.77	0	0	0	0	0	0
9/2/2024 21:38	43802	SWIL_T1	0	0	0	0	0	0	0.02	0.05	1	1	0	600	600	0
9/2/2024 21:38	50102	HARR_T3	13	7	-6	0.28	0.14	-0.14	0	0	0	0	0	0	0	0
9/2/2024 21:38	44801	EDAN_T2	175	263	88	0.5	0.58	0.08	0	0	0	0	0	0	0	0
9/2/2024 21:38	50202	HARR_T3	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/2/2024 21:38	67502	WEWI_T2	0	6	6	0	0.1	0.1	-0.27	-0.27	0	0	0	0	0	0
9/2/2024 21:38	44802	EDAN_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
9/2/2024 21:38	42201	SHEN_T2	0	0	0	0	0	0	1.07	1.07	0	0	0	0	0	0
9/2/2024 21:39	46302	ROHR_T1	135	155	20	0.41	0.42	0.01	0.21	0.19	0	0	0	0	0	0
9/2/2024 21:39	45901	AUBU_T1	423	484	61	0.62	0.7	0.08	0.34	0.33	0	0	0	0	0	0
9/2/2024 21:39	57403	SPAN_T1	42	57	15	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
9/2/2024 21:39	48302	ORWI_T2	2	2	0	0.85	1.2	0.35	-0.02	-0.03	0	0	0	0	0	0
9/2/2024 21:39	54204	PENN_T2	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/2/2024 21:39	12001	HATF_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:39	11104	EGYP_T1	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
9/2/2024 21:39	10805	CHHI_T2	1	1	0	7.4	7.2	-0.2	-1.11	-1.09	1	1	0	600	600	0
9/2/2024 21:39	60803	BUCK_T1	15	29	14	0.35	0.41	0.06	0	0	0	0	0	0	0	0
9/2/2024 21:39	54206	PENN_T2	2	56	54	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:39	46001	BERW_T1	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
9/2/2024 21:39	63601	LETO_T1	4	0	-4	0.1	0	-0.1	1.56	1.63	0	0	0	0	0	0
9/2/2024 21:39	46301	ROHR_T1	329	362	33	0.77	0.82	0.05	0	0	0	0	0	0	0	0
9/2/2024 21:39	15703	TANN_T2	1	1	0	4.8	4.7	-0.1	0	0	0	0	0	0	0	0
9/2/2024 21:39	45902	AUBU_T1	739	831	92	0.92	1.05	0.13	0	0	0	0	0	0	0	0
9/2/2024 21:39	12002	HATF_T1	0	35	35	0	0.11	0.11	-1.46	-1.5	1	1	0	1200	1200	0
9/2/2024 21:39	62106	ELAN_T1	18	21	3	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
9/2/2024 21:39	12005	HATF_T1	5	4	-1	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
9/2/2024 21:39	45501	DERR_T2	0	1	1	0	0.3	0.3	0.09	0.08	1	1	0	600	600	0
9/2/2024 21:39	10702	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/2/2024 21:39	40201	BEGA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/2/2024 21:39	63202	MGTN_T2	0	0	0	0	0	0	-1.39	-0.32	1	1	0	900	900	0
9/2/2024 21:39	60801	BUCK_T1	34	62	28	0.24	0.42	0.18	-0.19	-0.17	0	0	0	0	0	0
9/2/2024 21:39	62101	ELAN_T1	4	3	-1	0.28	0.4	0.12	0	0	0	0	0	0	0	0
9/2/2024 21:39	10707	CATA_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
9/2/2024 21:39	43105	SMIL_T2	21	24	3	0.31	0.37	0.06	0	0	0	0	0	0	0	0
9/2/2024 21:39	51904	COPA_T1	5	5	0	0.36	0.52	0.16	0	0	0	0	0	0	0	0
9/2/2024 21:39	43102	SMIL_T2	6	6	0	0.62	0.73	0.11	-0.26	-0.26	0	0	0	0	0	0
9/2/2024 21:39	51902	COPA_T1	0	0	0	0	0	0	-0.53	-0.58	1	1	0	1200	1200	0
9/2/2024 21:39	62103	ELAN_T1	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
9/2/2024 21:39	61301	EARL_T1	0	0	0	0	0	0	-0.45	-0.45	1	1	0	900	900	0
9/2/2024 21:39	54202	PENN_T2	0	13	13	0	0.14	0.14	-0.17	-0.25	0	0	0	0	0	0
9/2/2024 21:39	14404	SSLA_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
9/2/2024 21:39	43108	SMIL_T2	3	3	0	0.33	0.47	0.14	0	0	0	0	0	0	0	0
9/2/2024 21:39	12004	HATF_T1	0	11	11	0	0.11	0.11	0	0	0	0	0	0	0	0
9/2/2024 21:39	49803	UNIV_T1	1	1	0	5.8	5.7	-0.1	-1.02	-1.02	0	0	0	0	0	0
9/2/2024 21:39	15702	TANN_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
9/2/2024 21:39	42601	TUSC_T1	1	1	0	0.1	0.4	0.3	-0.58	-0.5	1	1	0	1200	1200	0
9/2/2024 21:39	43103	SMIL_T2	20	22	2	0.41	0.6	0.19	0	0	0	0	0	0	0	0
9/2/2024 21:39	62105	ELAN_T1	171	160	-11	0.26	0.21	-0.05	0	0	0	0	0	0	0	0
9/2/2024 21:39	13101	NHAM_T1	0	0	0	0	0	0	-2.84	-2.88	2	2	0	2400	2400	0
9/2/2024 21:39	57401	SPAN_T1	8	24	16	0.38	0.21	-0.17	-0.75	-0.73	1	1	0	600	600	0
9/2/2024 21:39	62102	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/2/2024 21:40	48302	ORWI_T2	2	2	0	0.85	1.2	0.35	0	0	0	0	0	0	0	0
9/2/2024 21:40	42601	TUSC_T1	1	1	0	0.1	0.4	0.3	-0.58	-0.5	1	1	0	1200	1200	0
9/2/2024 21:40	12002	HATF_T1	0	35	35	0	0.11	0.11	-1.46	-1.5	1	1	0	1200	1200	0
9/2/2024 21:40	44301	BEAV_T2	2	7	5	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
9/2/2024 21:40	62102	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/2/2024 21:40	61001	DONV_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
9/2/2024 21:40	67502	WEWI_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:40	49803	UNIV_T1	1	1	0	5.8	5.7	-0.1	-1.02	-1.02	0	0	0	0	0	0
9/2/2024 21:40	14601	SWHI_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
9/2/2024 21:40	45901	AUBU_T1	423	484	61	0.62	0.7	0.08	0	0	0	0	0	0	0	0
9/2/2024 21:40	62103	ELAN_T1	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
9/2/2024 21:40	40703	FFLD_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/2/2024 21:40	44302	BEAV_T2	27	88	61	0.16	0.22	0.06	0.29	0.28	0	0	0	0	0	0
9/2/2024 21:40	12005	HATF_T1	5	4	-1	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
9/2/2024 21:40	40701	FFLD_T1	21	28	7	0.23	0.26	0.03	0	0	0	0	0	0	0	0
9/2/2024 21:40	40702	FFLD_T1	64	127	63	0.18	0.23	0.05	0	0	0	0	0	0	0	0
9/2/2024 21:40	47802	MOCA_T2	10	10	0	0.79	0.74	-0.05	0.44	0.44	0	0	0	0	0	0
9/2/2024 21:40	62105	ELAN_T1	171	160	-11	0.26	0.21	-0.05	0.72	0.67	0	0	0	0	0	0
9/2/2024 21:40	12001	HATF_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:40	14602	SWHI_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
9/2/2024 21:40	47401	PENS_T1	0	0	0	0	0	0	0.97	0.94	0	0	0	0	0	0
9/2/2024 21:40	12006	HATF_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
9/2/2024 21:40	12604	MACA_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
9/2/2024 21:40	64701	LITI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 21:40	12004	HATF_T1	0	11	11	0	0.11	0.11	0	0	0	0	0	0	0	0
9/2/2024 21:40	61703	ELIZ_T1	0	0	0	0	0	0	-2.34	-2.37	2	2	0	2100	2100	0
9/2/2024 21:40	62101	ELAN_T1	4	3	-1	0.28	0.4	0.12	0	0	0	0	0	0	0	0
9/2/2024 21:40	62106	ELAN_T1	18	21	3	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
9/2/2024 21:40	67503	WEWI_T2	1	1	0	7.7	8.5	0.8	0.07	0.07	0	0	0	0	0	0
9/2/2024 21:40	45902	AUBU_T1	739	831	92	0.92	1.05	0.13	-2.06	-2.06	0	0	0	0	0	0
9/2/2024 21:40	64101	REFR_T1	0	0	0	0	0	0	0.6	0.54	0	0	0	0	0	0
9/2/2024 21:40	22904	HARW_T1	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
9/2/2024 21:40	42802	SELI_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
9/2/2024 21:40	61701	ELIZ_T1	1	1	0	4.7	4.2	-0.5	0	0	0	0	0	0	0	0
9/2/2024 21:40	12701	MACU_T1	0	1	1	0	0.1	0.1	-1.1	-1.14	1	1	0	1200	1200	0
9/2/2024 21:40	42201	SHEN_T2	0	0	0	0	0	0	1.07	1.07	0	0	0	0	0	0
9/2/2024 21:41	57104	SPHI_T2	1	0	-1	10	0	-10	-0.9	-0.91	0	0	0	0	0	0
9/2/2024 21:41	62103	ELAN_T1	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
9/2/2024 21:41	66505	SMAN_T2	0	0	0	0	0	0	0.34	0.46	1	1	0	900	900	0
9/2/2024 21:41	67802	WLAN_T1	1	11	10	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/2/2024 21:41	63501	HEID_TBK1-2	18	48	30	0.39	0.52	0.13	0.8	0.69	0	0	0	0	0	0
9/2/2024 21:41	62105	ELAN_T1	171	160	-11	0.26	0.21	-0.05	0	0	0	0	0	0	0	0
9/2/2024 21:41	14602	SWHI_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
9/2/2024 21:41	15702	TANN_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
9/2/2024 21:41	14404	SSLA_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
9/2/2024 21:41	57106	SPHI_T2	3	3	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:41	67801	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:41	44701	MUNC_T2	36	112	76	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
9/2/2024 21:41	67805	WLAN_T1	470	517	47	0.32	0.45	0.13	0	0	0	0	0	0	0	0
9/2/2024 21:41	15204	SFAR_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
9/2/2024 21:41	66504	SMAN_T2	0	0	0	0	0	0	-0.24	-0.31	0	0	0	0	0	0
9/2/2024 21:41	44802	EDAN_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
9/2/2024 21:41	67804	WLAN_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
9/2/2024 21:41	62101	ELAN_T1	4	3	-1	0.28	0.4	0.12	0	0	0	0	0	0	0	0
9/2/2024 21:41	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 21:41	44702	MUNC_T2	117	134	17	0.48	0.51	0.03	0	0	0	0	0	0	0	0
9/2/2024 21:41	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 21:41	44801	EDAN_T2	175	263	88	0.5	0.58	0.08	0	0	0	0	0	0	0	0
9/2/2024 21:41	15203	SFAR_T2	0	10	10	0	0.1	0.1	-2.13	-2.23	0	0	0	0	0	0
9/2/2024 21:41	62102	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/2/2024 21:41	67803	WLAN_T1	0	1	1	0	0.1	0.1	-0.67	-0.71	0	0	0	0	0	0
9/2/2024 21:41	44703	MUNC_T2	2	2	0	1.25	1.4	0.15	0	0	0	0	0	0	0	0
9/2/2024 21:41	57101	SPHI_T2	6	6	0	0.88	1.02	0.14	0	0	0	0	0	0	0	0
9/2/2024 21:41	47002	HUGH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:41	65205	PRIN_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
9/2/2024 21:41	14601	SWHI_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
9/2/2024 21:41	64101	REFR_T1	0	0	0	0	0	0	0.6	0.54	0	0	0	0	0	0
9/2/2024 21:41	47001	HUGH_T2	3	5	2	9.03	5.64	-3.39	-0.83	-0.86	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/2/2024 21:41	62106	ELAN_T1	18	21	3	0.19	0.18	-0.01	0	-0.01	0	0	0	0	0	0
9/2/2024 21:41	15703	TANN_T2	1	1	0	4.8	4.7	-0.1	0	0	0	0	0	0	0	0
9/2/2024 21:41	14702	TREX_T2	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
9/2/2024 21:42	61701	ELIZ_T1	1	1	0	4.7	4.2	-0.5	0	0	0	0	0	0	0	0
9/2/2024 21:42	57403	SPAN_T1	42	57	15	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
9/2/2024 21:42	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	900	900	0
9/2/2024 21:42	21704	SUBU_T1	0	0	0	0	0	0	-1.16	-1.14	1	1	0	1200	1200	0
9/2/2024 21:42	44302	BEAV_T2	27	88	61	0.16	0.22	0.06	0	0	0	0	0	0	0	0
9/2/2024 21:42	46301	ROHR_T1	329	362	33	0.77	0.82	0.05	0.23	0.23	0	0	0	0	0	0
9/2/2024 21:42	10705	CATA_T2	0	0	0	0	0	0	-1.15	0.16	0	0	0	0	0	0
9/2/2024 21:42	54202	PENN_T2	0	13	13	0	0.14	0.14	-0.17	-0.25	0	0	0	0	0	0
9/2/2024 21:42	52401	GRPA_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/2/2024 21:42	44301	BEAV_T2	2	7	5	0.3	0.29	-0.01	-0.95	-1.01	0	0	0	0	0	0
9/2/2024 21:42	54206	PENN_T2	2	56	54	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:42	61703	ELIZ_T1	0	0	0	0	0	0	-2.34	-2.37	2	2	0	2100	2100	0
9/2/2024 21:42	41902	REED_T1	0	0	0	0	0	0	0.96	0.9	0	0	0	0	0	0
9/2/2024 21:42	41901	REED_T1	9	9	0	0.76	0.69	-0.07	0	0	0	0	0	0	0	0
9/2/2024 21:42	14702	TREX_T2	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
9/2/2024 21:42	21705	SUBU_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
9/2/2024 21:42	54204	PENN_T2	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/2/2024 21:42	29402	BELT_T1	1	1	0	7.4	7.9	0.5	0	0	0	0	0	0	0	0
9/2/2024 21:42	56501	ROCK_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:42	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 21:42	44701	MUNC_T2	36	112	76	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
9/2/2024 21:42	10702	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/2/2024 21:42	21701	SUBU_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
9/2/2024 21:42	20103	AVOC_T1	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
9/2/2024 21:42	53802	MBRG_T2	0	0	0	0	0	0	0.74	0.81	0	0	0	0	0	0
9/2/2024 21:42	46302	ROHR_T1	135	155	20	0.41	0.42	0.01	0	0	0	0	0	0	0	0
9/2/2024 21:42	57401	SPAN_T1	8	24	16	0.38	0.21	-0.17	-0.75	-0.73	1	1	0	600	600	0
9/2/2024 21:42	60102	COCA_T1	0	0	0	0	0	0	0.02	0.17	1	1	0	600	600	0
9/2/2024 21:42	47203	FAXO_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
9/2/2024 21:42	40101	HUNT_T2	0	0	0	0	0	0	-0.65	-0.71	0	0	0	0	0	0
9/2/2024 21:42	53601	DALM_T2	1	1	0	1.2	1.5	0.3	0.01	0.02	0	0	0	0	0	0
9/2/2024 21:42	56504	ROCK_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
9/2/2024 21:42	45501	DERR_T2	0	1	1	0	0.3	0.3	0.09	0.08	1	1	0	600	600	0
9/2/2024 21:42	48902	FOSP_T2	0	0	0	0	0	0	-0.23	-0.27	0	0	0	0	0	0
9/2/2024 21:42	60101	COCA_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
9/2/2024 21:42	45502	DERR_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
9/2/2024 21:42	42601	TUSC_T1	1	1	0	0.1	0.4	0.3	-0.58	-0.5	1	1	0	1200	1200	0
9/2/2024 21:42	52403	GRPA_T2	21	89	68	0.31	0.86	0.55	-0.15	-0.21	0	0	0	0	0	0
9/2/2024 21:42	52402	GRPA_T2	3	7	4	1.27	0.83	-0.44	0	0	0	0	0	0	0	0
9/2/2024 21:42	15604	NSTR_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
9/2/2024 21:42	52404	GRPA_T2	1	1	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
9/2/2024 21:42	44702	MUNC_T2	117	134	17	0.48	0.51	0.03	0	0	0	0	0	0	0	0
9/2/2024 21:42	58705	ROSE_T2	5	5	0	3.18	3.32	0.14	0	0	0	0	0	0	0	0
9/2/2024 21:42	47802	MOCA_T2	10	10	0	0.79	0.74	-0.05	0.44	0.44	0	0	0	0	0	0
9/2/2024 21:42	61202	REIN_T1	31	2	-29	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
9/2/2024 21:42	58701	ROSE_T2	0	0	0	0	0	0	-0.73	-0.77	0	0	0	0	0	0
9/2/2024 21:42	58402	MORO_T1	0	0	0	0	0	0	0.34	0.3	1	1	0	900	900	0
9/2/2024 21:42	44703	MUNC_T2	2	2	0	1.25	1.4	0.15	0.75	0.77	0	0	0	0	0	0
9/2/2024 21:43	63501	HEID_TBK1-2	18	48	30	0.39	0.52	0.13	0.8	0.69	0	0	0	0	0	0
9/2/2024 21:43	46302	ROHR_T1	135	155	20	0.41	0.42	0.01	0	0	0	0	0	0	0	0
9/2/2024 21:43	52004	LING_T2	2	2	0	6.15	6.2	0.05	0.23	0.24	0	0	0	0	0	0
9/2/2024 21:43	21701	SUBU_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
9/2/2024 21:43	24702	FLND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 21:43	57403	SPAN_T1	42	57	15	0.3	0.27	-0.03	0.15	0.12	0	0	0	0	0	0
9/2/2024 21:43	52002	LING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/2/2024 21:43	20401	ASHF_T2	7	3	-4	0.47	0.53	0.06	0	0	0	0	0	0	0	0
9/2/2024 21:43	64101	REFR_T1	0	0	0	0	0	0	0.6	0.54	0	0	0	0	0	0
9/2/2024 21:43	12004	HATF_T1	0	11	11	0	0.11	0.11	0	0	0	0	0	0	0	0
9/2/2024 21:43	43505	WWIL_T1	1	2	1	2.5	2.6	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:43	10801	CHHI_T1	0	0	0	0	0	0	-1.39	-1.48	2	2	0	1800	1800	0
9/2/2024 21:43	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
9/2/2024 21:43	20403	ASHF_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
9/2/2024 21:43	20402	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/2/2024 21:43	65502	MOJO_T2	6	132	126	0.1	0.12	0.02	0	0	0	0	0	0	0	0
9/2/2024 21:43	45902	AUBU_T1	739	831	92	0.92	1.05	0.13	0	0	0	0	0	0	0	0
9/2/2024 21:43	23502	GEOR_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
9/2/2024 21:43	57101	SPHI_T2	6	6	0	0.88	1.02	0.14	0	0	0	0	0	0	0	0
9/2/2024 21:43	63601	LETO_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 21:43	46001	BERW_T1	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
9/2/2024 21:43	42802	SELI_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
9/2/2024 21:43	52006	LING_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/2/2024 21:43	13503	MCMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 21:43	21703	SUBU_T1	0	0	0	0	0	0	-0.51	-0.55	0	0	0	0	0	0
9/2/2024 21:43	63602	LETO_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
9/2/2024 21:43	57106	SPHI_T2	3	3	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:43	65601	QVIL_T2	39	135	96	0.17	0.38	0.21	0	0	0	0	0	0	0	0
9/2/2024 21:43	24104	EHAZ_T1	0	0	0	0	0	0	-0.82	-0.84	1	1	0	1200	1200	0
9/2/2024 21:43	65603	QVIL_T2	6	105	99	0.12	0.18	0.06	0	0	0	0	0	0	0	0
9/2/2024 21:43	43504	WWIL_T1	14	17	3	0.37	0.31	-0.06	0.69	0.62	0	0	0	0	0	0
9/2/2024 21:43	12001	HATF_T1	0	3	3	0	0.1	0.1	0.06	0.06	1	1	0	600	600	0
9/2/2024 21:43	57205	ROSS_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
9/2/2024 21:43	45501	DERR_T2	0	1	1	0	0.3	0.3	0.17	0.16	2	2	0	1200	1200	0
9/2/2024 21:43	65503	MOJO_T2	0	13	13	0	0.1	0.1	-0.37	-0.36	0	0	0	0	0	0
9/2/2024 21:43	24105	EHAZ_T1	4	4	0	6.78	6.03	-0.75	0	0	0	0	0	0	0	0
9/2/2024 21:43	22901	HARW_T1	0	0	0	0	0	0	-0.77	-0.76	1	1	0	1200	1200	0
9/2/2024 21:43	47401	PENS_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
9/2/2024 21:43	43506	WWIL_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
9/2/2024 21:43	12005	HATF_T1	5	4	-1	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
9/2/2024 21:43	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:43	12002	HATF_T1	0	35	35	0	0.11	0.11	0	0	0	0	0	0	0	0
9/2/2024 21:43	57401	SPAN_T1	8	24	16	0.38	0.21	-0.17	0	0	0	0	0	0	0	0
9/2/2024 21:43	45901	AUBU_T1	423	484	61	0.62	0.7	0.08	0.34	0.33	0	0	0	0	0	0
9/2/2024 21:43	21705	SUBU_T1	1	1	0	5.2	5.2	0	0.05	0	0	0	0	0	0	0
9/2/2024 21:43	57104	SPHI_T2	1	0	-1	10	0	-10	-0.9	-0.91	0	0	0	0	0	0
9/2/2024 21:43	55405	SHER_T1	18	11	-7	0.66	0.44	-0.22	-0.17	-0.17	0	0	0	0	0	0
9/2/2024 21:43	56501	ROCK_T2	0	2	2	0	0.1	0.1	0.11	0.09	0	0	0	0	0	0
9/2/2024 21:43	46301	ROHR_T1	329	362	33	0.77	0.82	0.05	0.23	0.23	0	0	0	0	0	0
9/2/2024 21:43	65604	QVIL_T2	2	3	1	0.15	0.4	0.25	0.42	0.4	0	0	0	0	0	0
9/2/2024 21:44	54505	ENOL_T2	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
9/2/2024 21:44	58701	ROSE_T2	0	0	0	0	0	0	-0.73	-0.77	0	0	0	0	0	0
9/2/2024 21:44	52402	GRPA_T2	3	7	4	1.27	0.83	-0.44	0	0	0	0	0	0	0	0
9/2/2024 21:44	45802	HEGI_T2	10	2	-8	0.34	0.15	-0.19	1	1	0	0	0	0	0	0
9/2/2024 21:44	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
9/2/2024 21:44	64503	LAVI_T1	0	0	0	0	0	0	-0.55	-0.79	1	0	-1	1200	0	-1200
9/2/2024 21:44	40501	CRES_T2	20	26	6	0.49	0.44	-0.05	0	0	0	0	0	0	0	0
9/2/2024 21:44	40201	BEGA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/2/2024 21:44	61103	BERK_T5	0	0	0	0	0	0	0.28	0.23	0	0	0	0	0	0
9/2/2024 21:44	61703	ELIZ_T1	0	0	0	0	0	0	-2.34	-2.37	2	2	0	2100	2100	0
9/2/2024 21:44	54502	ENOL_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:44	52401	GRPA_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/2/2024 21:44	42903	MIDD_T2	2	2	0	2	2.3	0.3	0	0	0	0	0	0	0	0
9/2/2024 21:44	40101	HUNT_T2	0	0	0	0	0	0	-0.65	-0.71	0	0	0	0	0	0
9/2/2024 21:44	20603	GRWO_T2	0	8	8	0	0.11	0.11	0.4	0.38	0	0	0	0	0	0
9/2/2024 21:44	43103	SMIL_T2	20	22	2	0.41	0.6	0.19	0	0	0	0	0	0	0	0
9/2/2024 21:44	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:44	40903	JESH_T1	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
9/2/2024 21:44	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 21:44	44801	EDAN_T2	175	263	88	0.5	0.58	0.08	0	0	0	0	0	0	0	0
9/2/2024 21:44	40902	JESH_T1	1	19	18	0.2	0.16	-0.04	-0.66	-0.69	0	0	0	0	0	0
9/2/2024 21:44	43102	SMIL_T2	6	6	0	0.62	0.73	0.11	-0.26	-0.26	0	0	0	0	0	0
9/2/2024 21:44	40502	CRES_T2	49	88	39	0.47	0.45	-0.02	-0.3	-0.34	0	0	0	0	0	0
9/2/2024 21:44	46401	FLEM_T2	785	908	123	0.7	0.88	0.18	-0.32	-0.3	0	0	0	0	0	0
9/2/2024 21:44	45501	DERR_T2	0	1	1	0	0.3	0.3	0.09	0.08	1	1	0	600	600	0
9/2/2024 21:44	12701	MACU_T1	0	1	1	0	0.1	0.1	-1.1	-1.14	1	1	0	1200	1200	0
9/2/2024 21:44	43105	SMIL_T2	21	24	3	0.31	0.37	0.06	0	0	0	0	0	0	0	0
9/2/2024 21:44	52404	GRPA_T2	1	1	0	1.1	1.5	0.4	-0.28	-0.25	0	0	0	0	0	0
9/2/2024 21:44	43108	SMIL_T2	3	3	0	0.33	0.47	0.14	0	0	0	0	0	0	0	0
9/2/2024 21:44	43402	BENT_T1	0	0	0	0	0	0	-0.64	-0.63	1	1	0	600	600	0
9/2/2024 21:44	24702	FLND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 21:44	58705	ROSE_T2	5	5	0	3.18	3.32	0.14	0	0	0	0	0	0	0	0
9/2/2024 21:44	61701	ELIZ_T1	1	1	0	4.7	4.2	-0.5	0	0	0	0	0	0	0	0
9/2/2024 21:44	54506	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/2/2024 21:44	40901	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:44	67703	WERN_T2	0	0	0	0	0	0	-0.64	-0.69	1	1	0	900	900	0
9/2/2024 21:44	44802	EDAN_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
9/2/2024 21:44	60101	COCA_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
9/2/2024 21:44	52403	GRPA_T2	21	89	68	0.31	0.86	0.55	0	0	0	0	0	0	0	0
9/2/2024 21:44	54501	ENOL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
9/2/2024 21:44	60801	BUCK_T1	34	62	28	0.24	0.42	0.18	-0.19	-0.17	0	0	0	0	0	0
9/2/2024 21:44	54504	ENOL_T2	0	0	0	0	0	0	-1.46	-1.5	1	1	0	600	600	0
9/2/2024 21:44	46402	FLEM_T2	1025	1170	145	0.61	0.9	0.29	0	0	0	0	0	0	0	0
9/2/2024 21:44	60803	BUCK_T1	15	29	14	0.35	0.41	0.06	0	0	0	0	0	0	0	0
9/2/2024 21:44	42902	MIDD_T2	1	27	26	0.1	0.22	0.12	-0.64	-0.62	0	0	0	0	0	0
9/2/2024 21:45	67802	WLAN_T1	11	9	-2	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
9/2/2024 21:45	43801	SWIL_T1	12	19	7	0.71	0.55	-0.16	0	0	0	0	0	0	0	0
9/2/2024 21:45	20401	ASHF_T2	2	3	1	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
9/2/2024 21:45	67804	WLAN_T1	4	6	2	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
9/2/2024 21:45	46801	HEPB_T2	3	3	0	0.67	0.83	0.16	0	0	0	0	0	0	0	0
9/2/2024 21:45	45501	DERR_T2	1	0	-1	0.3	0	-0.3	0.09	0.08	1	1	0	600	600	0
9/2/2024 21:45	43802	SWIL_T1	0	0	0	0	0	0	0.02	0.05	1	1	0	600	600	0
9/2/2024 21:45	59101	WALK_T2	0	0	0	0	0	0	-0.3	-0.24	0	0	0	0	0	0
9/2/2024 21:45	66504	SMAN_T2	0	0	0	0	0	0	-0.49	-0.62	0	0	0	0	0	0
9/2/2024 21:45	65502	MOJO_T2	132	0	-132	0.12	0	-0.12	0	0	0	0	0	0	0	0
9/2/2024 21:45	48301	ORWI_T1	2	2	0	4.6	4.7	0.1	0.34	0.39	0	0	0	0	0	0
9/2/2024 21:45	51904	COPA_T1	5	5	0	0.28	0.52	0.24	-0.31	-0.31	1	1	0	600	600	0
9/2/2024 21:45	46803	HEPB_T2	0	1	1	0	0.1	0.1	0.36	0.37	0	0	0	0	0	0
9/2/2024 21:45	45802	HEGI_T2	0	2	2	0	0.15	0.15	1	1	0	0	0	0	0	0
9/2/2024 21:45	44801	EDAN_T2	203	317	114	0.51	0.63	0.12	-1.64	-1.64	0	0	0	0	0	0
9/2/2024 21:45	14702	TREX_T2	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
9/2/2024 21:45	64101	REFR_T1	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/2/2024 21:45	11805	FRAN_T1	0	0	0	0	0	0	-1.21	-1.34	1	1	0	1200	1200	0
9/2/2024 21:45	67805	WLAN_T1	515	517	2	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
9/2/2024 21:45	12302	LANA_T2	0	0	0	0	0	0	-1.41	-1.47	2	2	0	1500	1500	0
9/2/2024 21:45	63404	HONY_T1	105	89	-16	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
9/2/2024 21:45	67803	WLAN_T1	1	1	0	0.1	0.1	0	-0.67	-0.71	0	0	0	0	0	0
9/2/2024 21:45	65503	MOJO_T2	13	0	-13	0.1	0	-0.1	-0.37	-0.36	0	0	0	0	0	0
9/2/2024 21:45	25603	ARRO_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
9/2/2024 21:45	46102	MACI_T1	0	1	1	0	0	0	0.82	0.84	0	0	0	0	0	0
9/2/2024 21:45	21204	ECAR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/2/2024 21:45	67801	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/2/2024 21:45	59202	THOM_T1	213	217	4	0.21	0.21	0	0	0	0	0	0	0	0	0
9/2/2024 21:45	44802	EDAN_T2	0	1	1	0	0	0	-0.7	-0.68	0	0	0	0	0	0
9/2/2024 21:45	56501	ROCK_T2	0	2	2	0	0.1	0.1	0.11	0.09	0	0	0	0	0	0
9/2/2024 21:45	46004	BERW_T2	0	0	0	0	0	0	-0.4	-0.47	0	0	0	0	0	0
9/2/2024 21:45	63401	HONY_T1	0	0	0	0	0	0	-0.46	-0.56	1	1	0	600	600	0
9/2/2024 21:45	64503	LAVI_T1	0	0	0	0	0	0	-0.55	-0.79	1	0	-1	1200	0	-1200
9/2/2024 21:45	59201	THOM_T1	20	21	1	0.41	0.4	-0.01	0	0	0	0	0	0	0	0
9/2/2024 21:45	59002	MIFF_T1	6	5	-1	0.9	0.36	-0.54	0	0	0	0	0	0	0	0
9/2/2024 21:45	67401	WAKE_T2	32	90	58	0.17	0.23	0.06	-0.96	-0.77	0	0	0	0	0	0
9/2/2024 21:45	63501	HEID_TBK1-2	48	48	0	0.6	0.62	0.02	0.8	0.69	0	0	0	0	0	0
9/2/2024 21:45	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:45	59003	MIFF_T1	1	1	0	0.8	0.4	-0.4	0.55	0.44	0	0	0	0	0	0
9/2/2024 21:45	64902	MILL_T2	0	0	0	0	0	0	-0.42	-0.44	1	1	0	900	900	0
9/2/2024 21:45	21206	ECAR_T2	1	2	1	8.4	7.6	-0.8	-0.34	0.91	0	0	0	0	0	0
9/2/2024 21:45	20403	ASHF_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
9/2/2024 21:46	67503	WEWI_T2	1	1	0	8.2	8.6	0.4	0.07	0.07	0	0	0	0	0	0
9/2/2024 21:46	14205	EALL_T2	0	20	20	0	0.13	0.13	0	0	0	0	0	0	0	0
9/2/2024 21:46	46004	BERW_T2	0	0	0	0	0	0	-0.4	-0.47	0	0	0	0	0	0
9/2/2024 21:46	56501	ROCK_T2	0	2	2	0	0.1	0.1	0.11	0.09	0	0	0	0	0	0
9/2/2024 21:46	51201	MTON_T1	0	0	0	0	0	0	0.18	0.27	0	0	0	0	0	0
9/2/2024 21:46	47502	NECO_T1	18	29	11	0.2	0.21	0.01	0.8	0.78	0	0	0	0	0	0
9/2/2024 21:46	42903	MIDD_T2	2	2	0	2.15	2.45	0.3	-0.6	-0.62	0	0	0	0	0	0
9/2/2024 21:46	14202	EALL_T2	3	12	9	0.4	0.32	-0.08	0	0	0	0	0	0	0	0
9/2/2024 21:46	67203	TEHI_T1	0	0	0	0	0	0	1.54	1.61	2	2	0	1500	1500	0
9/2/2024 21:46	42901	MIDD_T2	0	28	28	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:46	15001	BLMO_T1	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
9/2/2024 21:46	67502	WEWI_T2	6	16	10	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/2/2024 21:46	57401	SPAN_T1	18	19	1	0.25	0.24	-0.01	-2.25	-2.2	3	3	0	1800	1800	0
9/2/2024 21:46	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:46	14204	EALL_T2	0	0	0	0	0	0	0.87	0.86	0	0	0	0	0	0
9/2/2024 21:46	61803	EELI_T2	0	0	0	0	0	0	0.2	0.23	1	1	0	600	600	0
9/2/2024 21:46	16005	DORN_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 21:46	42902	MIDD_T2	11	40	29	0.17	0.26	0.09	0	0	0	0	0	0	0	0
9/2/2024 21:46	67201	TEHI_T1	0	0	0	0	0	0	0.32	0.28	0	0	0	0	0	0
9/2/2024 21:46	57403	SPAN_T1	35	56	21	0.33	0.26	-0.07	0.15	0.12	0	0	0	0	0	0
9/2/2024 21:46	11104	EGYP_T1	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
9/2/2024 21:47	46402	FLEM_T2	1122	1197	75	0.82	1.03	0.21	0	0	0	0	0	0	0	0
9/2/2024 21:47	13101	NHAM_T1	0	0	0	0	0	0	-1.42	-1.44	1	1	0	1200	1200	0
9/2/2024 21:47	63302	GREE_T1	0	0	0	0	0	0	0.29	0.33	0	0	0	0	0	0
9/2/2024 21:47	46101	MACI_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
9/2/2024 21:47	43102	SMIL_T2	6	6	0	0.62	0.73	0.11	0	0	0	0	0	0	0	0
9/2/2024 21:47	50201	HARR_T3	1	1	0	1	1.1	0.1	-0.54	-0.5	1	1	0	1200	1200	0
9/2/2024 21:47	42503	ALTA_T2	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
9/2/2024 21:47	44801	EDAN_T2	203	317	114	0.51	0.63	0.12	-1.64	-1.64	0	0	0	0	0	0
9/2/2024 21:47	64101	REFR_T1	0	0	0	0	0	0	0.6	0.54	0	0	0	0	0	0
9/2/2024 21:47	47401	PENS_T1	0	1	1	0	0	0	0.48	0.47	0	0	0	0	0	0
9/2/2024 21:47	29301	DAPP_T1	1	1	0	9.1	9.5	0.4	0	0	1	1	0	600	600	0
9/2/2024 21:47	14601	SWHI_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
9/2/2024 21:47	48902	FOSP_T2	0	1	1	0	0	0	-0.23	-0.27	0	0	0	0	0	0
9/2/2024 21:47	43108	SMIL_T2	3	2	-1	0.47	0.15	-0.32	0	0	0	0	0	0	0	0
9/2/2024 21:47	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:47	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 21:47	46401	FLEM_T2	876	943	67	0.81	1	0.19	-0.32	-0.3	0	0	0	0	0	0
9/2/2024 21:47	43101	SMIL_T2	0	0	0	0	0	0	-0.7	-0.73	0	0	0	0	0	0
9/2/2024 21:47	50102	HARR_T3	1	7	6	0.1	0.14	0.04	0	0	0	0	0	0	0	0
9/2/2024 21:47	43103	SMIL_T2	21	22	1	0.58	0.54	-0.04	0	0	0	0	0	0	0	0
9/2/2024 21:47	50103	HARR_T3	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/2/2024 21:47	14602	SWHI_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
9/2/2024 21:47	44302	BEAV_T2	38	180	142	0.18	0.24	0.06	0.29	0.28	0	0	0	0	0	0
9/2/2024 21:47	50105	HARR_T3	6	6	0	6.22	6.12	-0.1	0	0	0	0	0	0	0	0
9/2/2024 21:47	44201	POIN_T1	249	422	173	0.28	0.33	0.05	-1.87	-1.9	2	2	0	2100	2100	0
9/2/2024 21:47	43105	SMIL_T2	18	24	6	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
9/2/2024 21:47	55101	WERT_T1	0	0	0	0	0	0	-2.68	-2.68	4	4	0	3000	3000	0
9/2/2024 21:47	63305	GREE_T1	10	15	5	0.18	0.24	0.06	0	0	0	0	0	0	0	0
9/2/2024 21:47	48901	FOSP_T2	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
9/2/2024 21:47	53802	MBRG_T2	0	1	1	0	0	0	0.74	0.81	0	0	0	0	0	0
9/2/2024 21:47	63304	GREE_T1	0	0	0	0	0	0	-0.2	-0.3	0	0	0	0	0	0
9/2/2024 21:47	59102	WALK_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
9/2/2024 21:47	50107	HARR_T3	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
9/2/2024 21:47	42501	ALTA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 21:47	44301	BEAV_T2	2	12	10	0.3	0.31	0.01	0	0	0	0	0	0	0	0
9/2/2024 21:47	42802	SELI_T1	0	0	0	0	0	0	-1.14	-1.15	0	0	0	0	0	0
9/2/2024 21:48	40701	FFLD_T1	22	34	12	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
9/2/2024 21:48	44801	EDAN_T2	203	317	114	0.51	0.63	0.12	0	0	0	0	0	0	0	0
9/2/2024 21:48	44802	EDAN_T2	0	1	1	0	0	0	-0.7	-0.68	0	0	0	0	0	0
9/2/2024 21:48	56504	ROCK_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
9/2/2024 21:48	50701	SMEC_T1	0	0	0	0	0	0	0.57	0.53	0	0	0	0	0	0
9/2/2024 21:48	54204	PENN_T2	3	3	0	0.13	0.3	0.17	0	0	0	0	0	0	0	0
9/2/2024 21:48	54206	PENN_T2	8	56	48	0.11	0.2	0.09	0	0	0	0	0	0	0	0
9/2/2024 21:48	56501	ROCK_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:48	42802	SELI_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
9/2/2024 21:48	44302	BEAV_T2	38	180	142	0.18	0.24	0.06	0	0	0	0	0	0	0	0
9/2/2024 21:48	60101	COCA_T1	0	0	0	0	0	0	0.87	0.84	0	0	0	0	0	0
9/2/2024 21:48	57303	MOAL_T2	1	1	0	7.1	7.3	0.2	0	0	0	0	0	0	0	0
9/2/2024 21:48	13704	SCHN_T2	5	6	1	0.12	0.42	0.3	-0.35	-0.35	0	0	0	0	0	0
9/2/2024 21:48	43801	SWIL_T1	12	19	7	0.71	0.55	-0.16	0	0	0	0	0	0	0	0
9/2/2024 21:48	40702	FFLD_T1	89	131	42	0.2	0.23	0.03	-0.78	-0.8	0	0	0	0	0	0
9/2/2024 21:48	43802	SWIL_T1	0	0	0	0	0	0	0.04	0.1	2	2	0	1200	1200	0
9/2/2024 21:48	44301	BEAV_T2	2	12	10	0.3	0.31	0.01	-1.9	-2.02	0	0	0	0	0	0
9/2/2024 21:48	40703	FFLD_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/2/2024 21:48	54202	PENN_T2	0	13	13	0	0.14	0.14	-0.17	-0.25	0	0	0	0	0	0
9/2/2024 21:48	64503	LAVI_T1	0	0	0	0	0	0	0.55	0.79	1	0	-1	1200	0	-1200
9/2/2024 21:48	53802	MBRG_T2	0	1	1	0	0	0	0.74	0.81	0	0	0	0	0	0
9/2/2024 21:48	57403	SPAN_T1	35	56	21	0.33	0.26	-0.07	0.15	0.12	0	0	0	0	0	0
9/2/2024 21:48	58401	MORO_T1	0	0	0	0	0	0	-0.84	-0.91	0	0	0	0	0	0
9/2/2024 21:48	57401	SPAN_T1	18	19	1	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
9/2/2024 21:48	46004	BERW_T2	0	0	0	0	0	0	-0.4	-0.47	0	0	0	0	0	0
9/2/2024 21:48	63602	LETO_T1	0	3	3	0	0.1	0.1	-0.17	-0.18	0	0	0	0	0	0
9/2/2024 21:48	63601	LETO_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/2/2024 21:48	13701	SCHN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
9/2/2024 21:48	57304	MOAL_T2	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
9/2/2024 21:48	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:49	59202	THOM_T1	213	217	4	0.21	0.21	0	0	0	0	0	0	0	0	0
9/2/2024 21:49	63501	HEID_TBK1-2	48	48	0	0.6	0.62	0.02	0.8	0.69	0	0	0	0	0	0
9/2/2024 21:49	44201	POIN_T1	249	422	173	0.28	0.33	0.05	-1.87	-1.9	2	2	0	2100	2100	0
9/2/2024 21:49	40903	JESH_T1	2	51	49	0.1	0.14	0.04	0	0	0	0	0	0	0	0
9/2/2024 21:49	46001	BERW_T1	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
9/2/2024 21:49	48902	FOSP_T2	0	1	1	0	0	0	-0.23	-0.27	0	0	0	0	0	0
9/2/2024 21:49	23001	SAID_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
9/2/2024 21:49	46402	FLEM_T2	1122	1197	75	0.82	1.03	0.21	-0.3	-0.33	0	0	0	0	0	0
9/2/2024 21:49	42802	SELI_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
9/2/2024 21:49	59201	THOM_T1	20	21	1	0.41	0.4	-0.01	0	0	0	0	0	0	0	0
9/2/2024 21:49	43202	MVIL_T2	172	279	107	0.91	0.78	-0.13	-0.67	-0.67	0	0	0	0	0	0
9/2/2024 21:49	44801	EDAN_T2	203	317	114	0.51	0.63	0.12	-1.64	-1.64	0	0	0	0	0	0
9/2/2024 21:49	46401	FLEM_T2	876	943	67	0.81	1	0.19	0	0	0	0	0	0	0	0
9/2/2024 21:49	40902	JESH_T1	11	142	131	0.13	0.17	0.04	-0.66	-0.69	0	0	0	0	0	0
9/2/2024 21:49	40901	JESH_T1	0	19	19	0	0.12	0.12	0	0	0	0	0	0	0	0
9/2/2024 21:49	42201	SHEN_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
9/2/2024 21:49	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 21:49	64101	REFR_T1	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
9/2/2024 21:49	51702	OBER_T1	2	2	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:49	51704	OBER_T1	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
9/2/2024 21:49	43201	MVIL_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
9/2/2024 21:49	57403	SPAN_T1	35	56	21	0.33	0.26	-0.07	0.15	0.12	0	0	0	0	0	0
9/2/2024 21:49	57401	SPAN_T1	18	19	1	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
9/2/2024 21:50	46401	FLEM_T2	876	943	67	0.81	1	0.19	0	0	0	0	0	0	0	0
9/2/2024 21:50	55101	WERT_T1	0	0	0	0	0	0	-1.34	-1.34	2	2	0	1500	1500	0
9/2/2024 21:50	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 21:50	40101	HUNT_T2	0	0	0	0	0	0	-0.65	-0.71	0	0	0	0	0	0
9/2/2024 21:50	45501	DERR_T2	1	0	-1	0.3	0	-0.3	0.17	0.16	2	2	0	1200	1200	0
9/2/2024 21:50	43103	SMIL_T2	21	22	1	0.58	0.54	-0.04	0	0	0	0	0	0	0	0
9/2/2024 21:50	43108	SMIL_T2	3	2	-1	0.47	0.15	-0.32	0	0	0	0	0	0	0	0
9/2/2024 21:50	46402	FLEM_T2	1122	1197	75	0.82	1.03	0.21	-0.3	-0.33	0	0	0	0	0	0
9/2/2024 21:50	24201	PROV_T3	59	64	5	0.22	0.25	0.03	-1.35	-1.35	1	1	0	1200	1200	0
9/2/2024 21:50	40201	BEGA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:50	64202	KINZ_T1	4	3	-1	0.58	0.63	0.05	0	0	0	0	0	0	0	0
9/2/2024 21:50	64203	KINZ_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
9/2/2024 21:50	46801	HEPB_T2	3	3	0	0.67	0.83	0.16	0.62	0.61	0	0	0	0	0	0
9/2/2024 21:50	67605	WARW_T1	21	22	1	0.56	0.57	0.01	-1.08	-1.14	0	0	0	0	0	0
9/2/2024 21:50	40902	JESH_T1	11	142	131	0.13	0.17	0.04	0	0	0	0	0	0	0	0
9/2/2024 21:50	40903	JESH_T1	2	51	49	0.1	0.14	0.04	0	0	0	0	0	0	0	0
9/2/2024 21:50	42903	MIDD_T2	2	2	0	2.15	2.45	0.3	-1.19	-1.23	0	0	0	0	0	0
9/2/2024 21:50	64201	KINZ_T1	7	4	-3	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
9/2/2024 21:50	42902	MIDD_T2	11	40	29	0.17	0.26	0.09	0	0	0	0	0	0	0	0
9/2/2024 21:50	41901	REED_T1	9	9	0	0.62	0.69	0.07	0	0	0	0	0	0	0	0
9/2/2024 21:50	44301	BEAV_T2	2	12	10	0.3	0.31	0.01	-0.95	-1.01	0	0	0	0	0	0
9/2/2024 21:50	41902	REED_T1	0	0	0	0	0	0	0.96	0.9	0	0	0	0	0	0
9/2/2024 21:50	52101	MEIS_T1	1	2	1	0.2	0.65	0.45	0	0	0	0	0	0	0	0
9/2/2024 21:50	24204	PROV_T3	3	3	0	1.9	1.9	0	0	0	0	0	0	0	0	0
9/2/2024 21:50	64204	KINZ_T1	17	1	-16	0.2	0.7	0.5	0	0	0	0	0	0	0	0
9/2/2024 21:50	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:50	55105	WERT_T1	0	0	0	0	0	0	-0.25	-0.27	1	1	0	900	900	0
9/2/2024 21:50	43102	SMIL_T2	6	6	0	0.62	0.73	0.11	-0.26	-0.26	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/2/2024 21:50	64101	REFR_T1	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
9/2/2024 21:50	43105	SMIL_T2	18	24	6	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
9/2/2024 21:50	58401	MORO_T1	0	0	0	0	0	0	-0.42	-0.45	0	0	0	0	0	0
9/2/2024 21:50	55002	NEWP_T1	6	6	0	1.35	1.33	-0.02	-0.22	-0.22	0	0	0	0	0	0
9/2/2024 21:50	40901	JESH_T1	0	19	19	0	0.12	0.12	0	0	0	0	0	0	0	0
9/2/2024 21:50	55001	NEWP_T1	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
9/2/2024 21:50	44302	BEAV_T2	38	180	142	0.18	0.24	0.06	0.29	0.28	0	0	0	0	0	0
9/2/2024 21:50	42901	MIDD_T2	0	28	28	0	0.1	0.1	0	0	0	0	0	0	0	0
9/2/2024 21:51	44301	BEAV_T2	2	12	10	0.3	0.31	0.01	-1.01	-1	0	0	0	0	0	0
9/2/2024 21:51	52403	GRPA_T2	50	89	39	0.58	0.86	0.28	-0.15	-0.21	0	0	0	0	0	0
9/2/2024 21:51	45501	DEER_T2	1	0	-1	0.3	0	-0.3	0.08	0	1	1	0	600	600	0
9/2/2024 21:51	51704	OBER_T1	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
9/2/2024 21:51	52404	GRPA_T2	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
9/2/2024 21:51	52004	LING_T2	2	2	0	6.05	6.2	0.15	0.23	0.24	0	0	0	0	0	0
9/2/2024 21:51	40501	CRES_T2	18	26	8	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
9/2/2024 21:51	52401	GRPA_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/2/2024 21:51	52002	LING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/2/2024 21:51	58402	MORO_T1	0	0	0	0	0	0	0.34	0.3	1	1	0	900	900	0
9/2/2024 21:51	51702	OBER_T1	2	2	0	2.4	2.5	0.1	-0.12	-0.08	0	0	0	0	0	0
9/2/2024 21:51	53802	MBRG_T2	0	1	1	0	0	0	0.74	0.81	0	0	0	0	0	0
9/2/2024 21:51	12701	MACU_T1	0	1	1	0	0.1	0.1	-1.14	-1.18	1	1	0	1200	1200	0
9/2/2024 21:51	40502	CRES_T2	54	90	36	0.51	0.45	-0.06	-0.34	-0.38	0	0	0	0	0	0
9/2/2024 21:51	41002	LAUR_T2	47	54	7	0.38	0.52	0.14	0.1	0.08	0	0	0	0	0	0
9/2/2024 21:51	43802	SWIL_T1	0	0	0	0	0	0	0.05	0.03	1	1	0	600	600	0
9/2/2024 21:51	41001	LAUR_T2	69	83	14	0.31	0.58	0.27	0	0	0	0	0	0	0	0
9/2/2024 21:51	43801	SWIL_T1	12	19	7	0.71	0.55	-0.16	0	0	0	0	0	0	0	0
9/2/2024 21:51	52402	GRPA_T2	7	6	-1	0.71	0.93	0.22	0	0	0	0	0	0	0	0
9/2/2024 21:51	52006	LING_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/2/2024 21:51	44302	BEAV_T2	38	180	142	0.18	0.24	0.06	0	0	0	0	0	0	0	0
9/2/2024 21:52	53601	DALM_T2	1	1	0	1.4	1.5	0.1	0.02	0.03	0	0	0	0	0	0
9/2/2024 21:52	48901	FOSP_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
9/2/2024 21:52	49804	UNIV_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
9/2/2024 21:52	41902	REED_T1	0	0	0	0	0	0	0.9	0.89	0	0	0	0	0	0
9/2/2024 21:52	41901	REED_T1	9	9	0	0.62	0.69	0.07	0	0	0	0	0	0	0	0
9/2/2024 21:52	65003	NEFF_T2	1	0	-1	0.1	0	-0.1	-0.71	-0.79	1	1	0	600	600	0
9/2/2024 21:52	47401	PENS_T1	0	1	1	0	0	0	0.47	0.57	0	0	0	0	0	0
9/2/2024 21:52	49803	UNIV_T1	1	1	0	5.8	5.4	-0.4	-1.02	-1.11	0	0	0	0	0	0
9/2/2024 21:52	46302	ROHR_T1	136	193	57	0.4	0.61	0.21	0.19	0.19	0	0	0	0	0	0
9/2/2024 21:52	65001	NEFF_T2	14	0	-14	0.11	0	-0.11	0	0	0	0	0	0	0	0
9/2/2024 21:52	46301	ROHR_T1	330	381	51	0.84	0.98	0.14	0	0	0	0	0	0	0	0
9/2/2024 21:52	48902	FOSP_T2	0	1	1	0	0	0	-0.27	-0.21	0	0	0	0	0	0
9/2/2024 21:52	42802	SELI_T1	0	0	0	0	0	0	-0.77	-0.89	0	0	0	0	0	0
9/2/2024 21:53	58401	MORO_T1	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
9/2/2024 21:53	49804	UNIV_T1	0	3	3	0	0.17	0.17	0.53	0.53	0	0	0	0	0	0
9/2/2024 21:53	52402	GRPA_T2	7	6	-1	0.71	0.93	0.22	-0.69	-0.7	0	0	0	0	0	0
9/2/2024 21:53	52404	GRPA_T2	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
9/2/2024 21:53	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2024 21:53	49803	UNIV_T1	1	1	0	5.8	5.4	-0.4	0	0	0	0	0	0	0	0
9/2/2024 21:53	52401	GRPA_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/2/2024 21:53	52403	GRPA_T2	50	89	39	0.58	0.86	0.28	0	0	0	0	0	0	0	0
9/2/2024 21:54	40101	HUNT_T2	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
9/2/2024 21:54	44301	BEAV_T2	2	12	10	0.3	0.31	0.01	-1.01	-1	0	0	0	0	0	0
9/2/2024 21:54	44302	BEAV_T2	38	180	142	0.18	0.24	0.06	0	0	0	0	0	0	0	0
9/2/2024 21:55	55101	WERT_T1	0	0	0	0	0	0	-1.34	-1.37	2	2	0	1500	1500	0
9/2/2024 21:55	44801	EDAN_T2	203	317	114	0.51	0.63	0.12	0	0	0	0	0	0	0	0
9/2/2024 21:55	44802	EDAN_T2	0	1	1	0	0	0	-0.68	-0.68	0	0	0	0	0	0
9/2/2024 21:56	45501	DEER_T2	1	0	-1	0.3	0	-0.3	0.08	0	1	1	0	600	600	0
9/2/2024 21:56	44302	BEAV_T2	38	180	142	0.18	0.24	0.06	0.57	0.51	0	0	0	0	0	0
9/2/2024 21:56	44301	BEAV_T2	2	12	10	0.3	0.31	0.01	0	0	0	0	0	0	0	0
9/2/2024 21:56	55001	NEWP_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
9/2/2024 21:56	55002	NEWP_T1	6	6	0	1.35	1.33	-0.02	0	0	0	0	0	0	0	0
9/2/2024 22:02	10801	OHHI_T1	0	0	0	0	0	0	-0.74	-0.7	1	1	0	900	900	0
9/2/2024 22:06	60101	COCA_T1	0	0	0	0	0	0	0.38	0.34	0	0	0	0	0	0
9/2/2024 23:09	65901	SAKR_T2	1	1	0	7.8	8.1	0.3	-0.38	-0.4	0	0	0	0	0	0
9/2/2024 23:13	64902	MILL_T2	0	0	0	0	0	0	-0.56	-0.6	1	1	0	900	900	0
9/3/2024 0:14	64904	MILL_T1	0	0	0	0	0	0	-0.42	-0.52	0	0	0	0	0	0
9/3/2024 0:19	64501	LAVI_T1	0	0	0	0	0	0	-0.27	-0.31	0	0	0	0	0	0
9/3/2024 0:46	50201	HARR_T3	1	1	0	0	0.1	0.1	-0.48	-0.49	1	1	0	1200	1200	0
9/3/2024 0:46	50107	HARR_T3	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
9/3/2024 0:46	50105	HARR_T3	6	6	0	6.83	7.12	0.29	0	0	0	0	0	0	0	0
9/3/2024 0:51	52004	LING_T2	2	2	0	4.75	4.75	0	0.08	0.09	0	0	0	0	0	0
9/3/2024 2:51	67503	WEWI_T2	1	1	0	9.3	9.3	0	-0.36	-0.34	0	0	0	0	0	0
9/3/2024 5:01	28403	HART_T2	0	0	0	0	0	0	-0.75	-0.75	1	1	0	900	900	0
9/3/2024 7:07	66505	SMAN_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/3/2024 7:07	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 7:09	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	1	1	0	900	900	0
9/3/2024 7:09	29402	BELT_T1	1	1	0	8.4	8.7	0.3	0	0	0	0	0	0	0	0
9/3/2024 7:12	14203	EALL_T1	0	0	0	0	0	0	-0.39	-0.34	1	1	0	1200	1200	0
9/3/2024 7:17	55002	NEWP_T1	6	0	0	0.97	0.97	0	-0.26	-0.23	0	0	0	0	0	0
9/3/2024 7:23	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/3/2024 7:24	67502	WEWI_T2	0	0	0	0	0	0	-1.38	-0.3	1	0	-1	900	0	-900
9/3/2024 7:24	67503	WEWI_T2	1	1	0	9	9.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 7:26	45901	AUBU_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
9/3/2024 7:27	16004	DORN_T1	0	0	0	0	0	0	-1.11	-1.1	1	1	0	1200	1200	0
9/3/2024 7:28	61802	EELI_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
9/3/2024 7:28	10504	CRAC_T1	0	0	0	0	0	0	-0.06	-0.11	0	0	0	0	0	0
9/3/2024 7:28	62607	ENGL_T1	0	0	0	0	0	0	-1.13	-1.11	1	1	0	300	300	0
9/3/2024 7:28	61801	EELI_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
9/3/2024 7:31	14603	SWHI_T1	0	0	0	0	0	0	-0.99	-1.02	1	1	0	600	600	0
9/3/2024 7:34	14603	SWHI_T1	0	0	0	0	0	0	-0.99	-1.02	1	1	0	600	600	0
9/3/2024 7:35	57401	SPAN_T1	0	3	3	0	0.27	0.27	-1.2	-1.16	1	1	0	600	600	0
9/3/2024 7:35	57403	SPAN_T1	0	8	8	0	0.15	0.15	0	0	0	0	0	0	0	0
9/3/2024 7:36	15203	SFAR_T2	16	151	135	0.1	0.22	0.12	-1.34	-1.33	0	0	0	0	0	0
9/3/2024 7:37	67605	WARW_T1	29	27	-2	0.64	0.61	-0.03	0	0	0	0	0	0	0	0
9/3/2024 7:37	57401	SPAN_T1	0	3	3	0	0.27	0.27	-1.16	-1.16	1	1	0	600	600	0
9/3/2024 7:37	57403	SPAN_T1	0	8	8	0	0.15	0.15	0	0	0	0	0	0	0	0
9/3/2024 7:37	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/3/2024 7:38	55102	WERT_T2	0	0	0	0	0	0	-0.85	-0.88	1	1	0	600	600	0
9/3/2024 7:41	40504	CRES_T1	0	0	0	0	0	0	-0.55	-0.5	0	0	0	0	0	0
9/3/2024 7:41	21501	CEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 7:42	45901	AUBU_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
9/3/2024 7:42	40504	CRES_T1	0	0	0	0	0	0	-0.55	-0.5	0	0	0	0	0	0
9/3/2024 7:42	53601	DALM_T2	1	1	0	1.3	1.1	-0.2	-0.44	-0.52	1	1	0	900	900	0
9/3/2024 7:43	45901	AUBU_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
9/3/2024 7:43	40802	EXCH_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/3/2024 7:43	40801	EXCH_T2	0	0	0	0	0	0	-0.64	-0.52	1	1	0	1200	1200	0
9/3/2024 7:44	40802	EXCH_T2	0	1	1	0	0.3	0.3	-0.02	0.02	0	0	0	0	0	0
9/3/2024 7:44	11903	ETEX_T1	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
9/3/2024 7:45	14601	SWHI_T1	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
9/3/2024 7:47	12807	MICK_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/3/2024 7:47	12801	MICK_T1	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
9/3/2024 7:48	12802	MICK_T1	0	0	0	0	0	0	-1.24	-1.25	0	0	0	0	0	0
9/3/2024 7:48	12605	MACA_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
9/3/2024 7:48	12807	MICK_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/3/2024 7:49	54201	PENN_T1	7	10	3	0.64	0.67	0.03	0	0	0	0	0	0	0	0
9/3/2024 7:49	54203	PENN_T1	18	18	0	0.92	1.17	0.25	-0.64	-0.54	1	1	0	600	600	0
9/3/2024 7:50	44201	POIN_T1	0	0	0	0	0	0	-1.39	-1.41	2	2	0	2100	2100	0
9/3/2024 7:50	54201	PENN_T1	7	10	3	0.64	0.67	0.03	0	0	0	0	0	0	0	0
9/3/2024 7:50	12802	MICK_T1	0	0	0	0	0	0	-1.24	-1.25	0	0	0	0	0	0
9/3/2024 7:50	12605	MACA_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
9/3/2024 7:50	54203	PENN_T1	18	18	0	0.92	1.17	0.25	-0.64	-0.54	1	1	0	600	600	0
9/3/2024 7:50	12807	MICK_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/3/2024 7:51	57401	SPAN_T1	2	17	15	0.25	0.22	-0.03	-1.16	-1.16	1	1	0	600	600	0
9/3/2024 7:51	13904	SEID_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
9/3/2024 7:51	57403	SPAN_T1	0	18	18	0	0.23	0.23	0	0	0	0	0	0	0	0
9/3/2024 7:53	57403	SPAN_T1	0	18	18	0	0.23	0.23	0	0	0	0	0	0	0	0
9/3/2024 7:53	57401	SPAN_T1	2	17	15	0.25	0.22	-0.03	-1.16	-1.15	1	1	0	600	600	0
9/3/2024 7:55	43103	SMIL_T2	22	21	-1	0.76	0.74	-0.02	0	0	0	0	0	0	0	0
9/3/2024 7:55	43105	SMIL_T2	10	5	-5	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
9/3/2024 7:55	43104	SMIL_T2	0	0	0	0	0	0	-1.64	-1.61	2	2	0	600	600	0
9/3/2024 7:55	43102	SMIL_T2	8	9	1	0.75	0.73	-0.02	0	0	0	0	0	0	0	0
9/3/2024 7:56	67503	WEWI_T2	1	1	0	9.2	9.1	-0.1	-0.28	-0.26	0	0	0	0	0	0
9/3/2024 7:56	67502	WEWI_T2	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
9/3/2024 7:57	45901	AUBU_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
9/3/2024 7:58	44801	EDAN_T2	49	151	102	0.37	0.47	0.1	-1.7	-1.67	0	0	0	0	0	0
9/3/2024 7:58	50105	HARR_T3	6	6	0	5.97	5.62	-0.35	0	0	0	0	0	0	0	0
9/3/2024 7:58	50107	HARR_T3	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
9/3/2024 7:58	50201	HARR_T3	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 7:58	50102	HARR_T3	21	13	-8	0.26	0.17	-0.09	0	0	0	0	0	0	0	0
9/3/2024 7:58	50103	HARR_T3	2	2	0	0.95	0.45	-0.5	0	0	0	0	0	0	0	0
9/3/2024 7:59	44801	EDAN_T2	49	151	102	0.37	0.47	0.1	-1.7	-1.67	0	0	0	0	0	0
9/3/2024 7:59	16004	DORN_T1	0	0	0	0	0	0	-1.14	-1.07	1	1	0	1200	1200	0
9/3/2024 8:00	63804	HEMP_T1	1	1	0	6.4	6.3	-0.1	0.64	0.76	0	0	0	0	0	0
9/3/2024 8:00	16004	DORN_T1	0	0	0	0	0	0	-1.14	-1.07	1	1	0	1200	1200	0
9/3/2024 8:01	40101	HUNT_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
9/3/2024 8:02	55503	HERS_T1	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
9/3/2024 8:02	55501	HERS_T1	4	52	48	0.1	0.58	0.48	0	0	0	0	0	0	0	0
9/3/2024 8:04	65601	QVIL_T2	0	0	0	0	0	0	-1.13	-1.13	1	1	0	900	900	0
9/3/2024 8:05	47401	PENS_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
9/3/2024 8:05	47403	PENS_T1	1	1	0	0.5	1.2	0.7	0	0	0	0	0	0	0	0
9/3/2024 8:07	48301	ORWI_T1	2	2	0	5.4	5.2	-0.2	-0.47	-0.45	1	1	0	900	900	0
9/3/2024 8:07	12807	MICK_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/3/2024 8:07	12801	MICK_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
9/3/2024 8:09	14802	TREI_T2	4	3	-1	0.1	0.13	0.03	0.87	0.8	0	0	0	0	0	0
9/3/2024 8:09	14801	TREI_T2	3	8	5	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
9/3/2024 8:13	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 8:15	46102	MACI_T1	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
9/3/2024 8:15	12006	HATF_T1	0	0	0	0	0	0	0.63	0.66	1	1	0	1200	1200	0
9/3/2024 8:16	55508	HERS_T2	2	9	7	1.95	0.54	-1.41	-1.23	-1.17	0	0	0	0	0	0
9/3/2024 8:19	64903	MILL_T2	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
9/3/2024 8:21	12807	MICK_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/3/2024 8:21	12801	MICK_T1	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
9/3/2024 8:22	15203	SFAR_T2	153	165	12	0.27	0.26	-0.01	-1.33	-1.3	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/3/2024 8:22	66703	STRA_T1	0	1	1	0	0.1	0.1	-0.32	-0.17	0	0	0	0	0	0
9/3/2024 8:23	66001	RHEE_T2	0	0	0	0	0	0	-1.15	-1.07	2	2	0	2100	2100	0
9/3/2024 8:24	47101	MARL_T1	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
9/3/2024 8:24	15203	SFAR_T2	153	165	12	0.27	0.26	-0.01	-1.33	-1.3	0	0	0	0	0	0
9/3/2024 8:24	13704	SCHN_T2	0	1	1	0	0.1	0.1	-0.66	-0.6	0	0	0	0	0	0
9/3/2024 8:24	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 8:25	66703	STRA_T1	0	1	1	0	0.1	0.1	-0.16	-0.09	0	0	0	0	0	0
9/3/2024 8:25	15203	SFAR_T2	153	165	12	0.27	0.26	-0.01	-5.31	-5.19	0	0	0	0	0	0
9/3/2024 8:28	11303	EMMA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 8:28	11301	EMMA_T1	0	0	0	0	0	0	-0.81	-0.78	0	0	0	0	0	0
9/3/2024 8:29	11904	ETEX_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
9/3/2024 8:30	14603	SWHI_T1	0	0	0	0	0	0	-0.97	-0.99	1	1	0	600	600	0
9/3/2024 8:30	13503	MCMI_T2	0	1	1	0	0.5	0.5	-0.01	-0.01	0	0	0	0	0	0
9/3/2024 8:32	15603	NSTR_T2	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
9/3/2024 8:32	15601	NSTR_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/3/2024 8:35	46302	ROHR_T1	4	4	0	1.33	1.3	-0.03	0.13	0.13	0	0	0	0	0	0
9/3/2024 8:35	50501	MECH_T1	4	4	0	0.73	1.1	0.37	0	0	0	0	0	0	0	0
9/3/2024 8:35	50502	MECH_T1	1	129	128	2.4	0.29	-2.11	-0.34	-0.34	0	0	0	0	0	0
9/3/2024 8:35	46301	ROHR_T1	1	1	0	6.2	6.5	0.3	0	0	0	0	0	0	0	0
9/3/2024 8:37	13704	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 8:37	13701	SCHN_T2	0	0	0	0	0	0	-0.03	-0.06	1	1	0	600	600	0
9/3/2024 8:38	46301	ROHR_T1	1	1	0	6.2	6.5	0.3	0	0	0	0	0	0	0	0
9/3/2024 8:38	67503	WEWI_T2	1	1	0	8.9	8.7	-0.2	-0.25	-0.22	0	0	0	0	0	0
9/3/2024 8:38	67804	WLAN_T1	0	1	1	0	0.1	0.1	-2.26	-2.22	0	0	0	0	0	0
9/3/2024 8:38	67803	WLAN_T1	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
9/3/2024 8:38	46302	ROHR_T1	4	4	0	1.33	1.3	-0.03	0.13	0.13	0	0	0	0	0	0
9/3/2024 8:38	67502	WEWI_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
9/3/2024 8:40	67605	WARW_T1	19	21	2	0.63	0.59	-0.04	0	0	0	0	0	0	0	0
9/3/2024 8:40	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 8:40	67804	WLAN_T1	0	1	1	0	0.1	0.1	-1.13	-1.11	0	0	0	0	0	0
9/3/2024 8:40	67803	WLAN_T1	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
9/3/2024 8:41	67804	WLAN_T1	0	1	1	0	0.1	0.1	-1.13	-1.11	0	0	0	0	0	0
9/3/2024 8:43	54505	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
9/3/2024 8:43	67804	WLAN_T1	0	1	1	0	0.1	0.1	-1.13	-1.11	0	0	0	0	0	0
9/3/2024 8:43	54504	ENOL_T2	0	1	1	0	0.3	0.3	-1.82	-1.82	1	1	0	600	600	0
9/3/2024 8:43	53501	EVIL_T2	1	2	1	0.3	0.4	0.1	-0.01	-0.01	1	2	1	600	1500	900
9/3/2024 8:43	54502	ENOL_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
9/3/2024 8:44	54505	ENOL_T2	1	1	0	1	0.8	-0.2	-0.65	-0.66	1	1	0	600	600	0
9/3/2024 8:44	54502	ENOL_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
9/3/2024 8:44	54504	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/3/2024 8:44	11507	FREE_T2	0	0	0	0	0	0	0.95	0.14	0	0	0	0	0	0
9/3/2024 8:44	53501	EVIL_T2	1	2	1	0.3	0.4	0.1	-0.01	-0.01	1	2	1	600	1500	900
9/3/2024 8:45	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/3/2024 8:45	54505	ENOL_T2	1	1	0	0.8	0.8	0	-0.65	-0.66	1	1	0	600	600	0
9/3/2024 8:45	67804	WLAN_T1	0	1	1	0	0.2	0.2	-1.13	-1.11	0	0	0	0	0	0
9/3/2024 8:45	53501	EVIL_T2	2	1	-1	0.9	0.5	-0.4	-0.01	-0.01	1	2	1	600	1500	900
9/3/2024 8:45	54504	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/3/2024 8:46	53501	EVIL_T2	2	1	-1	0.9	0.5	-0.4	-0.01	-0.01	2	4	2	1200	3000	1800
9/3/2024 8:47	40602	PIGR_T1	1	1	0	2	2	0	0.04	0.04	1	1	0	600	600	0
9/3/2024 8:47	40601	PIGR_T1	2	5	3	0.15	0.22	0.07	0	0	0	0	0	0	0	0
9/3/2024 8:48	65005	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 8:48	65004	NEFF_T2	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
9/3/2024 8:50	56501	ROCK_T2	2	2	0	0.7	0.5	-0.2	0	-0.02	0	0	0	0	0	0
9/3/2024 8:51	66502	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/3/2024 8:51	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 8:51	54206	PENN_T2	0	0	0	0	0	0	0.12	0.16	0	0	0	0	0	0
9/3/2024 8:52	56501	ROCK_T2	2	2	0	0.7	0.5	-0.2	-0.02	-0.02	0	0	0	0	0	0
9/3/2024 8:52	15702	TANN_T2	0	2	2	0	0.1	0.1	-0.47	-0.45	0	0	0	0	0	0
9/3/2024 8:52	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.49	-0.36	0	0	0	0	0	0
9/3/2024 8:52	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
9/3/2024 8:52	66502	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/3/2024 8:53	29402	BELT_T1	2	3	1	4.5	3.33	-1.17	0	0	0	0	0	0	0	0
9/3/2024 8:53	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 8:53	15704	TANN_T1	0	0	0	0	0	0	-0.39	-0.33	0	0	0	0	0	0
9/3/2024 8:53	29401	BELT_T1	23	68	45	0.13	0.25	0.12	0	0	1	1	0	900	900	0
9/3/2024 8:53	15701	TANN_T1	1	2	1	4.5	2.45	-2.05	0	0	0	0	0	0	0	0
9/3/2024 8:53	65207	PRIN_T4	1	1	0	0.1	0.1	0	0	0	2	2	0	1800	1800	0
9/3/2024 8:54	67503	WEWI_T2	1	1	0	8.5	8.7	0.2	-0.22	-0.16	0	0	0	0	0	0
9/3/2024 8:54	67502	WEWI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/3/2024 9:02	46506	LOHA_T1	3	3	0	5.67	5.8	0.13	0	0	0	0	0	0	0	0
9/3/2024 9:02	46503	LOHA_T1	0	0	0	0	0	0	-1.22	-1.24	0	0	0	0	0	0
9/3/2024 9:02	46504	LOHA_T1	2	3	1	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
9/3/2024 9:02	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 9:02	40101	HUNT_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
9/3/2024 9:06	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
9/3/2024 9:07	65207	PRIN_T4	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/3/2024 9:07	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
9/3/2024 9:07	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.72	-0.73	0	0	0	0	0	0
9/3/2024 9:07	66502	SMAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/3/2024 9:07	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/3/2024 9:08	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
9/3/2024 9:08	20401	ASHF_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/3/2024 9:08	66502	SMAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/3/2024 9:08	20403	ASHF_T2	0	3	3	0	0.13	0.13	1.47	1.47	0	0	0	0	0	0
9/3/2024 9:08	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 9:09	65904	SAKR_T2	0	0	0	0	0	0	-2.04	-2.05	3	3	0	1500	1500	0
9/3/2024 9:09	65901	SAKR_T2	1	1	0	7.8	7.6	-0.2	0	0	0	0	0	0	0	0
9/3/2024 9:09	64101	REFR_T1	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
9/3/2024 9:09	54601	SUMM_T2	4	7	3	0.5	0.37	-0.13	-1.85	-1.81	2	2	0	2100	2100	0
9/3/2024 9:09	42201	SHEN_T2	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
9/3/2024 9:10	13704	SCHN_T2	1	1	0	0.1	0.3	0.2	-0.3	-0.29	0	0	0	0	0	0
9/3/2024 9:10	13701	SCHN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/3/2024 9:11	20401	ASHF_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/3/2024 9:11	66502	SMAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/3/2024 9:11	20403	ASHF_T2	0	3	3	0	0.13	0.13	1.47	1.47	0	0	0	0	0	0
9/3/2024 9:11	54601	SUMM_T2	4	7	3	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
9/3/2024 9:11	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.36	-0.36	0	0	0	0	0	0
9/3/2024 9:11	54603	SUMM_T2	0	0	0	0	0	0	-0.23	-0.18	1	1	0	900	900	0
9/3/2024 9:12	20401	ASHF_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/3/2024 9:12	20403	ASHF_T2	0	3	3	0	0.13	0.13	1.47	1.47	0	0	0	0	0	0
9/3/2024 9:13	45902	AUBU_T1	1	1	0	0.8	1.1	0.3	0.06	0.05	0	0	0	0	0	0
9/3/2024 9:13	45901	AUBU_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/3/2024 9:13	53501	EVIL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/3/2024 9:13	53502	EVIL_T2	0	0	0	0	0	0	0.63	0.64	1	1	0	600	600	0
9/3/2024 9:14	53903	HALI_T2	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
9/3/2024 9:14	20401	ASHF_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/3/2024 9:14	29401	BELT_T1	33	74	41	0.16	0.24	0.08	0	0	0	0	0	0	0	0
9/3/2024 9:14	63501	HEID_TBK1-2	20	48	28	0.53	0.35	-0.18	0.26	0.26	1	1	0	900	900	0
9/3/2024 9:14	53902	HALI_T2	1	2	1	5	2.8	-2.2	0	0	0	0	0	0	0	0
9/3/2024 9:14	29402	BELT_T1	3	4	1	3.03	2.53	-0.5	0	0	0	0	0	0	0	0
9/3/2024 9:14	20403	ASHF_T2	0	3	3	0	0.13	0.13	1.47	1.47	0	0	0	0	0	0
9/3/2024 9:14	53901	HALI_T2	1	1	0	1	1.2	0.2	-1.3	-1.3	0	0	0	0	0	0
9/3/2024 9:15	61502	EPET_T1	0	0	0	0	0	0	-0.89	-0.83	0	0	0	0	0	0
9/3/2024 9:15	55101	WERT_T1	0	0	0	0	0	0	-0.72	-0.86	2	2	0	1500	1500	0
9/3/2024 9:15	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 9:16	46801	HEPB_T2	2	2	0	0.95	1	0.05	0.6	0.6	0	0	0	0	0	0
9/3/2024 9:16	63501	HEID_TBK1-2	23	47	24	0.37	0.39	0.02	0.26	0.26	1	1	0	900	900	0
9/3/2024 9:16	46803	HEPB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 9:17	53902	HALI_T2	1	2	1	5.2	2.8	-2.4	0	0	0	0	0	0	0	0
9/3/2024 9:17	53901	HALI_T2	1	1	0	1	1.2	0.2	-5.22	-5.22	0	0	0	0	0	0
9/3/2024 9:17	53903	HALI_T2	2	2	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
9/3/2024 9:18	53901	HALI_T2	1	1	0	1	1.2	0.2	-1.3	-1.3	0	0	0	0	0	0
9/3/2024 9:18	53903	HALI_T2	2	2	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
9/3/2024 9:18	54504	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/3/2024 9:18	54502	ENOL_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
9/3/2024 9:18	53902	HALI_T2	1	2	1	5.2	2.8	-2.4	0	0	0	0	0	0	0	0
9/3/2024 9:18	54505	ENOL_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
9/3/2024 9:18	54506	ENOL_T2	0	0	0	0	0	0	0.05	0.05	1	1	0	600	600	0
9/3/2024 9:20	13303	ORVI_T1	0	0	0	0	0	0	1.09	1.09	0	0	0	0	0	0
9/3/2024 9:23	14802	TREI_T2	1	0	-1	0.1	0	-0.1	0.44	0.45	0	0	0	0	0	0
9/3/2024 9:23	66504	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/3/2024 9:23	67605	WARW_T1	17	14	-3	0.53	0.51	-0.02	-1.11	-1.1	0	0	0	0	0	0
9/3/2024 9:23	66502	SMAN_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/3/2024 9:23	14801	TREI_T2	2	3	1	0.5	0.5	0	0	0	0	0	0	0	0	0
9/3/2024 9:24	67203	TEHI_T1	0	0	0	0	0	0	1.96	2.02	3	3	0	2100	2100	0
9/3/2024 9:24	67605	WARW_T1	17	14	-3	0.53	0.51	-0.02	1.11	1.1	0	0	0	0	0	0
9/3/2024 9:25	15204	SFAR_T2	1	3	2	0.2	0.37	0.17	0	0	0	0	0	0	0	0
9/3/2024 9:25	64602	LEOL_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
9/3/2024 9:25	15203	SFAR_T2	158	100	-58	0.26	0.23	-0.03	-1.24	-1.2	0	0	0	0	0	0
9/3/2024 9:26	45501	DERR_T2	1	0	-1	0.5	0	-0.5	0.55	0.75	2	2	0	1800	1800	0
9/3/2024 9:26	59101	WALK_T2	2	2	0	0.95	0.65	-0.3	1.54	2.63	0	0	0	0	0	0
9/3/2024 9:26	59102	WALK_T2	3	3	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
9/3/2024 9:27	45902	AUBU_T1	1	1	0	1.1	1.1	0	0.05	0.11	0	0	0	0	0	0
9/3/2024 9:27	46001	BERW_T1	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
9/3/2024 9:27	45901	AUBU_T1	3	2	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
9/3/2024 9:28	46001	BERW_T1	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
9/3/2024 9:29	29401	BELT_T1	67	62	-5	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
9/3/2024 9:29	45501	DERR_T2	1	0	-1	0.5	0	-0.5	0.55	0.75	2	2	0	1800	1800	0
9/3/2024 9:29	29402	BELT_T1	3	4	1	3.33	2.53	-0.8	0	0	0	0	0	0	0	0
9/3/2024 9:31	45502	DERR_T2	0	0	0	0	0	0	0.5	0.25	0	1	1	0	300	300
9/3/2024 9:32	45802	HEGI_T2	31	37	6	0.52	0.69	0.17	0.49	0.55	1	1	0	900	900	0
9/3/2024 9:33	45802	HEGI_T2	31	37	6	0.52	0.69	0.17	0.49	0.55	1	1	0	900	900	0
9/3/2024 9:34	26402	INOR_T1	0	89	89	0	8.55	8.55	-1.81	-1.87	1	1	0	600	600	0
9/3/2024 9:34	26401	INOR_T1	3	1	-2	2.93	7.9	4.97	0	0	0	0	0	0	0	0
9/3/2024 9:35	57401	SPAN_T1	10	14	4	0.54	0.5	-0.04	-2.09	-1.85	2	2	0	1200	1200	0
9/3/2024 9:35	57403	SPAN_T1	10	33	23	0.16	0.25	0.09	0	0	0	0	0	0	0	0
9/3/2024 9:35	44203	POIN_T2	0	0	0	0	0	0	0.04	0.16	2	2	0	2100	2100	0
9/3/2024 9:36	52502	PROG_T2	1	1	0	0.3	0.6	0.3	-1.31	-1.37	2	2	0	1800	1800	0
9/3/2024 9:37	57401	SPAN_T1	10	14	4	0.54	0.5	-0.04	-1.85	-1.78	2	2	0	1200	1200	0
9/3/2024 9:37	57403	SPAN_T1	10	33	23	0.16	0.25	0.09	0	0	0	0	0	0	0	0
9/3/2024 9:38	57403	SPAN_T1	10	33	23	0.16	0.25	0.09	0	0	0	0	0	0	0	0
9/3/2024 9:38	57401	SPAN_T1	10	14	4	0.54	0.5	-0.04	-0.92	-0.89	1	1	0	600	600	0
9/3/2024 9:38	51301	WIND_T1	2	3	1	0.15	0.17	0.02	-0.31	-0.3	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/3/2024 9:38	51305	WIND_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 9:39	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
9/3/2024 9:39	54201	PENN_T1	3	3	0	1.2	1.13	-0.07	0.39	0.39	0	0	0	0	0	0
9/3/2024 9:39	54203	PENN_T1	18	18	0	0.74	0.72	-0.02	0	0	0	0	0	0	0	0
9/3/2024 9:39	12302	LANA_T2	0	0	0	0	0	0	-1.61	-1.66	2	2	0	1500	1500	0
9/3/2024 9:41	67502	WEWI_T2	1	2	1	0.8	0.95	0.15	0	0	0	0	0	0	0	0
9/3/2024 9:41	67503	WEWI_T2	1	1	0	8.4	8.7	0.3	-0.16	-0.09	0	0	0	0	0	0
9/3/2024 9:42	47401	PENS_T1	1	3	2	0.4	0.53	0.13	0.56	0.51	0	0	0	0	0	0
9/3/2024 9:42	47403	PENS_T1	4	2	-2	0.6	1.05	0.45	0	0	0	0	0	0	0	0
9/3/2024 9:42	44802	EDAN_T2	2	2	0	0.25	0.3	0.05	-0.7	-0.7	0	0	0	0	0	0
9/3/2024 9:42	47402	PENS_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/3/2024 9:42	44801	EDAN_T2	171	182	11	0.8	0.81	0.01	0	0	0	0	0	0	0	0
9/3/2024 9:43	44801	EDAN_T2	171	182	11	0.8	0.81	0.01	0	0	0	0	0	0	0	0
9/3/2024 9:43	44802	EDAN_T2	2	2	0	0.25	0.3	0.05	-2.1	-2.09	0	0	0	0	0	0
9/3/2024 9:43	47403	PENS_T1	4	2	-2	0.6	1.05	0.45	0	0	0	0	0	0	0	0
9/3/2024 9:43	67502	WEWI_T2	1	2	1	0.8	0.95	0.15	0	0	0	0	0	0	0	0
9/3/2024 9:43	47401	PENS_T1	1	3	2	0.4	0.53	0.13	1.11	1.01	0	0	0	0	0	0
9/3/2024 9:43	67503	WEWI_T2	1	1	0	8.4	8.7	0.3	-0.16	-0.09	0	0	0	0	0	0
9/3/2024 9:43	47402	PENS_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/3/2024 9:44	44801	EDAN_T2	171	182	11	0.8	0.81	0.01	0	0	0	0	0	0	0	0
9/3/2024 9:44	44802	EDAN_T2	2	2	0	0.25	0.3	0.05	-0.7	-0.7	0	0	0	0	0	0
9/3/2024 9:45	44801	EDAN_T2	179	169	-10	0.81	0.74	-0.07	0	0	0	0	0	0	0	0
9/3/2024 9:45	44802	EDAN_T2	2	0	-2	0.3	0	-0.3	-0.7	-0.7	0	0	0	0	0	0
9/3/2024 9:46	51306	WIND_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
9/3/2024 9:46	40901	JESH_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/3/2024 9:46	40902	JESH_T1	0	0	0	0	0	0	-0.49	-0.05	0	0	0	0	0	0
9/3/2024 9:46	51304	WIND_T2	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
9/3/2024 9:47	63403	HONY_T2	0	0	0	0	0	0	-0.07	-0.09	1	1	0	600	600	0
9/3/2024 9:48	20601	GRWO_T2	8	12	4	0.5	0.23	-0.27	1.18	1.21	0	0	0	0	0	0
9/3/2024 9:48	16402	MOPO_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
9/3/2024 9:48	43202	MVIL_T2	1	1	0	0.6	0.3	-0.3	-1.22	-1.21	0	0	0	0	0	0
9/3/2024 9:48	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 9:49	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 9:49	43202	MVIL_T2	1	1	0	0.6	0.3	-0.3	-0.61	-0.6	0	0	0	0	0	0
9/3/2024 9:50	42302	MOWR_T2	0	0	0	0	0	0	0.27	0.15	0	0	0	0	0	0
9/3/2024 9:50	23102	MOSC_T2	0	0	0	0	0	0	0.83	0.8	2	2	0	1800	1800	0
9/3/2024 9:50	42801	SELI_T1	0	0	0	0	0	0	-1.02	-1.05	1	1	0	1200	1200	0
9/3/2024 9:50	42802	SELI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/3/2024 9:50	23101	MOSC_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 9:51	16402	MOPO_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
9/3/2024 9:51	42601	TUSC_T1	0	0	0	0	0	0	0.31	0.34	2	2	0	1800	1800	0
9/3/2024 9:53	20601	GRWO_T2	8	12	4	0.5	0.23	-0.27	1.21	1.22	0	0	0	0	0	0
9/3/2024 9:54	15703	TANN_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
9/3/2024 9:54	42601	TUSC_T1	0	0	0	0	0	0	0.31	0.34	2	2	0	1800	1800	0
9/3/2024 9:54	15702	TANN_T2	1	2	1	0.1	0.2	0.1	-0.36	-0.38	0	0	0	0	0	0
9/3/2024 9:54	40201	BEGA_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
9/3/2024 9:55	45902	AUBU_T1	1	1	0	1	1.4	0.4	0.18	0.17	0	0	0	0	0	0
9/3/2024 9:55	46001	BERW_T1	0	0	0	0	0	0	1.43	1.26	0	0	0	0	0	0
9/3/2024 9:55	59202	THOM_T1	10	0	-10	0.42	0	-0.42	0	0	0	0	0	0	0	0
9/3/2024 9:55	59201	THOM_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
9/3/2024 9:55	45901	AUBU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/3/2024 9:56	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 9:56	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/3/2024 9:56	16101	BING_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
9/3/2024 9:56	66505	SMAN_T2	0	0	0	0	0	0	0.71	0.71	1	1	0	900	900	0
9/3/2024 9:56	66502	SMAN_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/3/2024 9:56	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 9:57	67804	WLAN_T1	5	4	-1	0.22	0.3	0.08	0	0	0	0	0	0	0	0
9/3/2024 9:57	67803	WLAN_T1	3	2	-1	0.17	0.2	0.03	-0.81	-0.79	0	0	0	0	0	0
9/3/2024 9:58	11102	EGYP_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
9/3/2024 9:58	47403	PENS_T1	2	1	-1	1.05	1	-0.05	0	0	0	0	0	0	0	0
9/3/2024 9:58	47401	PENS_T1	3	1	-2	0.53	0.5	-0.03	1.01	0.97	0	0	0	0	0	0
9/3/2024 9:58	47402	PENS_T1	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
9/3/2024 9:58	11103	EGYP_T1	0	1	1	0	4.2	4.2	0	0	0	0	0	0	0	0
9/3/2024 9:58	11104	EGYP_T1	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
9/3/2024 10:00	59201	THOM_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/3/2024 10:00	46302	ROHR_T1	4	4	0	1.53	1.85	0.32	0.17	0.17	0	0	0	0	0	0
9/3/2024 10:00	52403	GRPA_T2	90	104	14	0.81	1.04	0.23	-0.09	-0.09	0	0	0	0	0	0
9/3/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.97	-0.92	0	0	0	0	0	0
9/3/2024 10:00	12802	MICK_T1	0	0	0	0	0	0	-1.01	-0.97	0	0	0	0	0	0
9/3/2024 10:00	12601	MACA_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
9/3/2024 10:00	48301	ORWI_T1	2	2	0	4.35	4.2	-0.15	-0.23	-0.28	1	1	0	900	900	0
9/3/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
9/3/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
9/3/2024 10:00	43202	MVIL_T2	1	1	0	0.2	0.4	0.2	-1.81	-1.89	0	0	0	0	0	0
9/3/2024 10:00	12605	MACA_T1	0	0	0	0	0	0	0.48	0.57	0	0	0	0	0	0
9/3/2024 10:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 10:00	46301	ROHR_T1	4	5	1	1.88	1.6	-0.28	0	0	0	0	0	0	0	0
9/3/2024 10:00	54201	PENN_T1	3	3	0	1.13	0.9	-0.23	0.39	0.43	0	0	0	0	0	0
9/3/2024 10:00	54206	PENN_T2	0	1	1	0	0.1	0.1	0.24	0.25	0	0	0	0	0	0
9/3/2024 10:00	54203	PENN_T1	18	18	0	0.71	0.58	-0.13	0.23	0.28	0	0	0	0	0	0
9/3/2024 10:00	12604	MACA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 10:00	59001	MIFF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:00	43201	MVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/3/2024 10:00	52402	GRPA_T2	5	5	0	0.18	0.3	0.12	0	0	0	0	0	0	0	0
9/3/2024 10:00	12801	MICK_T1	0	0	0	0	0	0	-0.19	-0.14	0	0	0	0	0	0
9/3/2024 10:00	12807	MICK_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/3/2024 10:00	67503	WEWI_T2	1	1	0	8.6	8.6	0	-0.09	-0.1	0	0	0	0	0	0
9/3/2024 10:00	67502	WEWI_T2	2	2	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
9/3/2024 10:00	65206	PRIN_T4	1	1	0	2.7	0	-2.7	0	0	0	0	0	0	0	0
9/3/2024 10:00	65207	PRIN_T4	0	1	1	0	0.3	0.3	0	0	2	2	0	1800	1800	0
9/3/2024 10:00	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/3/2024 10:04	64802	MONE_T2	4	5	1	0.25	0.28	0.03	0.31	0.34	0	0	0	0	0	0
9/3/2024 10:04	64801	MONE_T2	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/3/2024 10:06	11101	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:06	11104	EGYP_T1	0	0	0	0	0	0	0.63	0.65	0	0	0	0	0	0
9/3/2024 10:06	11102	EGYP_T1	3	1	-2	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
9/3/2024 10:06	14403	SSLA_T1	3	4	1	0.23	0.35	0.12	0.79	0.79	0	0	0	0	0	0
9/3/2024 10:06	14402	SSLA_T1	2	4	2	0.15	0.18	0.03	0	0	0	0	0	0	0	0
9/3/2024 10:06	14404	SSLA_T1	3	5	2	0.37	0.42	0.05	0	0	0	0	0	0	0	0
9/3/2024 10:06	14401	SSLA_T1	1	2	1	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
9/3/2024 10:07	64802	MONE_T2	4	5	1	0.25	0.28	0.03	0.34	0.32	0	0	0	0	0	0
9/3/2024 10:07	14404	SSLA_T1	3	5	2	0.37	0.42	0.05	0	0	0	0	0	0	0	0
9/3/2024 10:07	14402	SSLA_T1	2	4	2	0.15	0.18	0.03	0	0	0	0	0	0	0	0
9/3/2024 10:07	46301	ROHR_T1	4	5	1	1.88	1.6	-0.28	0	0	0	0	0	0	0	0
9/3/2024 10:07	12807	MICK_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/3/2024 10:07	14403	SSLA_T1	3	4	1	0.23	0.35	0.12	0.79	0.79	0	0	0	0	0	0
9/3/2024 10:07	14401	SSLA_T1	1	2	1	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
9/3/2024 10:07	46302	ROHR_T1	4	4	0	1.53	1.85	0.32	0.17	0.17	0	0	0	0	0	0
9/3/2024 10:07	64801	MONE_T2	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/3/2024 10:07	12802	MICK_T1	0	0	0	0	0	0	-0.97	-1.01	0	0	0	0	0	0
9/3/2024 10:08	13701	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:08	13704	SCHN_T2	1	0	0	0.3	0.4	0.1	-0.27	-0.26	0	0	0	0	0	0
9/3/2024 10:09	64101	REFR_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
9/3/2024 10:09	47401	PENS_T1	1	2	1	0.3	0.65	0.35	0.97	0.94	0	0	0	0	0	0
9/3/2024 10:09	13701	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:09	13704	SCHN_T2	1	1	0	0.3	0.4	0.1	-0.27	-0.26	0	0	0	0	0	0
9/3/2024 10:09	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 10:09	47402	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:09	59201	THOM_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/3/2024 10:09	15203	SFAR_T2	109	36	-73	0.21	0.28	0.07	-1.14	-1.12	0	0	0	0	0	0
9/3/2024 10:09	47403	PENS_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
9/3/2024 10:09	15204	SFAR_T2	3	3	0	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
9/3/2024 10:10	64802	MONE_T2	4	5	1	0.25	0.28	0.03	0	0	0	0	0	0	0	0
9/3/2024 10:10	42601	TUSC_T1	0	0	0	0	0	0	0.34	0.3	2	2	0	1800	1800	0
9/3/2024 10:10	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.17	0	0	0	0	0	0
9/3/2024 10:10	64801	MONE_T2	2	2	0	0.8	0.8	0	0.3	0.29	0	0	0	0	0	0
9/3/2024 10:10	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 10:10	15203	SFAR_T2	109	36	-73	0.21	0.28	0.07	-1.14	-1.12	0	0	0	0	0	0
9/3/2024 10:10	45902	AUBU_T1	1	1	0	0.9	1.6	0.7	0.17	0.12	0	0	0	0	0	0
9/3/2024 10:10	15204	SFAR_T2	3	3	0	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
9/3/2024 10:11	13704	SCHN_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:11	45901	AUBU_T1	0	1	1	0	0.2	0.2	0.33	0.31	0	0	0	0	0	0
9/3/2024 10:11	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.17	0	0	0	0	0	0
9/3/2024 10:11	67603	WARW_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 10:11	15204	SFAR_T2	3	3	0	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
9/3/2024 10:11	15203	SFAR_T2	109	36	-73	0.21	0.28	0.07	-1.14	-1.12	0	0	0	0	0	0
9/3/2024 10:11	45902	AUBU_T1	1	1	0	0.9	1.6	0.7	0.17	0.12	0	0	0	0	0	0
9/3/2024 10:11	67605	WARW_T1	14	23	9	0.45	0.57	0.12	-3.12	-3.18	0	0	0	0	0	0
9/3/2024 10:11	13701	SCHN_T2	0	1	1	0	0.1	0.1	0.03	0.09	1	1	0	600	600	0
9/3/2024 10:11	45501	DERR_T2	0	0	0	0	0	0	0.85	0.81	2	2	0	1800	1800	0
9/3/2024 10:11	48302	ORWI_T2	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
9/3/2024 10:12	16102	BING_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
9/3/2024 10:12	61001	DONV_T1	1	0	-1	0.2	0	-0.2	-0.15	-0.13	0	0	0	0	0	0
9/3/2024 10:12	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 10:12	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.17	0	0	0	0	0	0
9/3/2024 10:12	29402	BELT_T1	3	3	0	3.07	3.3	0.23	0	0	0	0	0	0	0	0
9/3/2024 10:12	45902	AUBU_T1	1	1	0	0.9	1.6	0.7	0.17	0.12	0	0	0	0	0	0
9/3/2024 10:12	51304	WIND_T2	1	1	0	1	1.5	0.5	0	0	0	0	0	0	0	0
9/3/2024 10:12	16101	BING_T2	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
9/3/2024 10:12	29401	BELT_T1	29	12	-17	0.17	0.18	0.01	0	0	1	1	0	900	900	0
9/3/2024 10:13	51304	WIND_T2	1	1	0	1	1.5	0.5	0.06	0.06	0	0	0	0	0	0
9/3/2024 10:13	64101	REFR_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
9/3/2024 10:14	45501	DERR_T2	0	0	0	0	0	0	0.85	0.81	2	2	0	1800	1800	0
9/3/2024 10:14	52402	GRPA_T2	5	5	0	0.18	0.3	0.12	0	0	0	0	0	0	0	0
9/3/2024 10:14	45902	AUBU_T1	1	1	0	0.9	1.6	0.7	0.17	0.12	0	0	0	0	0	0
9/3/2024 10:14	67503	WEWI_T2	1	1	0	8.6	8.6	0	0	0	0	0	0	0	0	0
9/3/2024 10:14	52403	GRPA_T2	90	104	14	0.81	1.04	0.23	-0.09	-0.05	0	0	0	0	0	0
9/3/2024 10:14	45901	AUBU_T1	0	1	1	0	0.2	0.2	0.33	0.31	0	0	0	0	0	0
9/3/2024 10:14	67502	WEWI_T2	2	2	0	0.95	1.25	0.3	-0.09	-0.18	0	0	0	0	0	0
9/3/2024 10:14	10801	CHHI_T1	2	4	2	0.4	0.3	-0.1	-0.72	-0.51	1	1	0	900	900	0
9/3/2024 10:14	11507	FREE_T2	0	0	0	0	0	0	0.06	0.34	0	0	0	0	0	0
9/3/2024 10:15	53501	EVIL_T2	2	2	0	0.35	0.95	0.6	-0.02	-0.02	3	6	3	1800	4500	2700

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/3/2024 10:15	45902	AUBU_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
9/3/2024 10:15	45901	AUBU_T1	1	1	0	0.1	0.2	0.1	0.33	0.31	0	0	0	0	0	0
9/3/2024 10:15	40101	HUNT_T2	1	1	0	0.2	0.2	0	-0.09	-0.12	0	0	0	0	0	0
9/3/2024 10:15	53601	DALM_T2	1	1	0	1.1	1.4	0.3	-0.14	-0.21	1	1	0	900	900	0
9/3/2024 10:15	41702	LOGA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/3/2024 10:16	52403	GRPA_T2	97	106	9	0.99	1	0.01	0	0	0	0	0	0	0	0
9/3/2024 10:16	52004	LING_T2	4	6	2	3.3	2.5	-0.8	0.85	0.87	0	0	0	0	0	0
9/3/2024 10:16	45901	AUBU_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:16	42902	MIDD_T2	0	1	1	0	0.8	0.8	-0.42	-0.32	1	1	0	600	600	0
9/3/2024 10:16	45902	AUBU_T1	1	1	0	1.4	1.6	0.2	0.17	0.12	0	0	0	0	0	0
9/3/2024 10:16	64305	LINC_T1	0	1	1	0	0.2	0.2	-0.03	0.01	0	0	0	0	0	0
9/3/2024 10:16	53501	EVIL_T2	2	2	0	0.35	0.95	0.6	0	0	0	0	0	0	0	0
9/3/2024 10:16	53502	EVIL_T2	0	0	0	0	0	0	0.69	0.41	1	1	0	600	600	0
9/3/2024 10:16	52402	GRPA_T2	5	3	-2	0.28	0.4	0.12	-0.73	-0.73	0	0	0	0	0	0
9/3/2024 10:17	52403	GRPA_T2	97	106	9	0.99	1	0.01	0	0	0	0	0	0	0	0
9/3/2024 10:17	52402	GRPA_T2	5	3	-2	0.28	0.4	0.12	-0.73	-0.73	0	0	0	0	0	0
9/3/2024 10:17	42902	MIDD_T2	0	1	1	0	0.8	0.8	-0.42	-0.32	1	1	0	600	600	0
9/3/2024 10:17	63501	HEID_TBK1-2	47	47	0	0.55	0.46	-0.09	0.32	0.3	1	1	0	900	900	0
9/3/2024 10:18	52402	GRPA_T2	5	3	-2	0.28	0.4	0.12	0	0	0	0	0	0	0	0
9/3/2024 10:18	53501	EVIL_T2	2	2	0	0.35	0.95	0.6	-0.01	-0.01	2	4	2	1200	3000	1800
9/3/2024 10:18	53802	MBRG_T2	0	0	0	0	0	0	1.09	1.09	0	0	0	0	0	0
9/3/2024 10:18	52403	GRPA_T2	97	106	9	0.99	1	0.01	-0.09	-0.05	0	0	0	0	0	0
9/3/2024 10:19	52004	LING_T2	4	6	2	3.3	2.5	-0.8	0.42	0.44	0	0	0	0	0	0
9/3/2024 10:19	25503	MADI_T1	65	84	19	0.2	0.27	0.07	-0.91	-0.88	0	0	0	0	0	0
9/3/2024 10:19	56501	ROCK_T2	4	2	-2	0.9	0.7	-0.2	0.07	0.06	0	0	0	0	0	0
9/3/2024 10:19	25501	MADI_T1	4	5	1	0.75	0.62	-0.13	0	0	0	0	0	0	0	0
9/3/2024 10:19	63501	HEID_TBK1-2	47	47	0	0.55	0.46	-0.09	0.32	0.3	1	1	0	900	900	0
9/3/2024 10:19	65604	QVIL_T2	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
9/3/2024 10:19	25502	MADI_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/3/2024 10:19	57205	ROSS_T1	1	1	0	1	1.1	0.1	0.25	0.25	0	0	0	0	0	0
9/3/2024 10:19	65601	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 10:19	20601	GRWO_T2	10	29	19	0.34	0.44	0.1	1.22	1.25	0	0	0	0	0	0
9/3/2024 10:19	16402	MOPO_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
9/3/2024 10:19	56504	ROCK_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/3/2024 10:20	20601	GRWO_T2	10	29	19	0.34	0.44	0.1	1.22	1.25	0	0	0	0	0	0
9/3/2024 10:20	42902	MIDD_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/3/2024 10:20	58303	NOTT_T2	0	1	1	0	0.4	0.4	0.3	0.33	1	1	0	900	900	0
9/3/2024 10:20	13502	MCMI_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:21	14802	TREI_T2	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
9/3/2024 10:21	41902	REED_T1	0	0	0	0	0	0	1.15	1.15	0	0	0	0	0	0
9/3/2024 10:21	23101	MOSC_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:21	14801	TREI_T2	2	3	1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
9/3/2024 10:21	56504	ROCK_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/3/2024 10:21	23102	MOSC_T2	0	0	0	0	0	0	0.94	0.66	2	2	0	1800	1800	0
9/3/2024 10:21	58202	NEWV_T1	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
9/3/2024 10:21	56501	ROCK_T2	4	2	-2	0.9	0.7	-0.2	0.07	0.06	0	0	0	0	0	0
9/3/2024 10:22	41902	REED_T1	0	0	0	0	0	0	1.15	1.15	0	0	0	0	0	0
9/3/2024 10:22	12801	MICK_T1	0	0	0	0	0	0	-0.07	-0.01	0	0	0	0	0	0
9/3/2024 10:22	12807	MICK_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:22	16402	MOPO_T1	0	0	0	0	0	0	0.14	0.4	0	0	0	0	0	0
9/3/2024 10:23	56504	ROCK_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/3/2024 10:23	46302	ROHR_T1	4	4	0	1.65	1.85	0.2	0	0	0	0	0	0	0	0
9/3/2024 10:23	56501	ROCK_T2	4	2	-2	0.9	0.7	-0.2	0.19	0.37	0	0	0	0	0	0
9/3/2024 10:23	21701	SUBU_T1	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
9/3/2024 10:23	59101	WALK_T2	1	0	-1	2.7	0	-2.7	3.49	2.94	0	2	2	0	1200	1200
9/3/2024 10:23	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:23	46301	ROHR_T1	4	6	2	1.75	1.37	-0.38	0.2	0.21	0	0	0	0	0	0
9/3/2024 10:23	13901	SEID_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:23	42601	TUSC_T1	0	0	0	0	0	0	0.3	0.33	2	2	0	1800	1800	0
9/3/2024 10:23	13905	SEID_T1	0	0	0	0	0	0	0.43	0.52	0	0	0	0	0	0
9/3/2024 10:23	21705	SUBU_T1	1	1	0	5.8	5.9	0.1	0.67	0.69	0	0	0	0	0	0
9/3/2024 10:24	52004	LING_T2	4	6	2	3.3	2.5	-0.8	0.44	0.42	0	0	0	0	0	0
9/3/2024 10:24	67605	WARW_T1	17	23	6	0.65	0.57	-0.08	-1.06	-1.01	0	0	0	0	0	0
9/3/2024 10:24	20403	ASHF_T2	3	8	5	0.27	0.64	0.37	1.54	1.46	0	0	0	0	0	0
9/3/2024 10:24	20401	ASHF_T2	1	6	5	0.2	0.32	0.12	0	0	0	0	0	0	0	0
9/3/2024 10:24	41902	REED_T1	0	0	0	0	0	0	1.15	1.15	0	0	0	0	0	0
9/3/2024 10:24	16103	BING_T2	0	1	1	0	0.2	0.2	-0.85	-0.91	2	2	0	1500	1500	0
9/3/2024 10:24	20402	ASHF_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
9/3/2024 10:24	10701	CATA_T2	0	1	1	0	0.1	0.1	-0.33	-0.35	1	1	0	1200	1200	0
9/3/2024 10:24	67603	WARW_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
9/3/2024 10:24	16102	BING_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
9/3/2024 10:24	42201	SHEN_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
9/3/2024 10:25	56501	ROCK_T2	4	2	-2	0.9	0.7	-0.2	0.06	0.12	0	0	0	0	0	0
9/3/2024 10:25	67605	WARW_T1	17	23	6	0.65	0.57	-0.08	0	0	0	0	0	0	0	0
9/3/2024 10:25	43402	BENT_T1	0	2	2	0	0.4	0.4	-0.54	-0.57	1	1	0	600	600	0
9/3/2024 10:25	67603	WARW_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
9/3/2024 10:25	56504	ROCK_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/3/2024 10:26	43402	BENT_T1	0	2	2	0	0.4	0.4	-0.54	-0.57	1	1	0	600	600	0
9/3/2024 10:26	20401	ASHF_T2	1	6	5	0.2	0.32	0.12	0	0	0	0	0	0	0	0
9/3/2024 10:26	29401	BELT_T1	6	27	21	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
9/3/2024 10:26	29402	BELT_T1	3	4	1	3.07	2.65	-0.42	0	0	0	0	0	0	0	0
9/3/2024 10:26	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:26	59101	WALK_T2	1	0	-1	2.7	0	-2.7	1.75	1.47	0	1	1	0	600	600
9/3/2024 10:26	20402	ASHF_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
9/3/2024 10:26	20403	ASHF_T2	3	8	5	0.27	0.64	0.37	3.08	2.92	0	0	0	0	0	0
9/3/2024 10:27	20401	ASHF_T2	1	6	5	0.2	0.32	0.12	-0.13	-0.12	0	0	0	0	0	0
9/3/2024 10:27	20403	ASHF_T2	3	8	5	0.27	0.64	0.37	3.08	2.92	0	0	0	0	0	0
9/3/2024 10:27	20402	ASHF_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
9/3/2024 10:28	23201	HIRU_T2	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:28	53501	EVIL_T2	2	2	0	0.35	0.95	0.6	-0.01	-0.01	2	1	-1	1500	600	-900
9/3/2024 10:28	23202	HIRU_T2	0	2	2	0	0.15	0.15	0.11	0.11	0	0	0	0	0	0
9/3/2024 10:29	45501	DERR_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 10:29	40101	HUNT_T2	1	1	0	0.2	0.2	0	-0.12	-0.06	0	0	0	0	0	0
9/3/2024 10:29	12001	HATF_T1	0	0	0	0	0	0	0.58	0.74	1	1	0	600	600	0
9/3/2024 10:29	63302	GREE_T1	0	0	0	0	0	0	0.66	0.77	0	0	0	0	0	0
9/3/2024 10:29	53501	EVIL_T2	2	2	0	0.35	0.95	0.6	-0.01	-0.01	2	1	-1	1500	600	-900
9/3/2024 10:29	12007	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:29	45502	DERR_T2	0	0	0	0	0	0	0.2	0.27	1	1	0	300	300	0
9/3/2024 10:30	12001	HATF_T1	0	0	0	0	0	0	0.58	0.74	1	1	0	600	600	0
9/3/2024 10:30	12007	HATF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 10:31	25402	LAHA_T2	1	1	0	0.2	0.3	0.1	-0.42	-0.41	0	0	0	0	0	0
9/3/2024 10:31	13503	MCMI_T2	2	3	1	0.65	0.53	-0.12	-0.01	-0.01	0	0	0	0	0	0
9/3/2024 10:32	46803	HEPB_T2	2	3	1	0.65	0.57	-0.08	0.5	0.51	0	0	0	0	0	0
9/3/2024 10:32	46802	HEPB_T1	1	2	1	1.2	0.7	-0.5	-0.19	-0.18	0	0	0	0	0	0
9/3/2024 10:32	47001	HUGH_T2	3	3	0	7.83	7.77	-0.06	-0.31	-0.25	0	0	0	0	0	0
9/3/2024 10:32	40101	HUNT_T2	1	1	0	0.2	0.2	0	-0.12	-0.06	0	0	0	0	0	0
9/3/2024 10:32	46801	HEPB_T2	2	2	0	1.3	1.25	-0.05	0	0	0	0	0	0	0	0
9/3/2024 10:32	47002	HUGH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:33	57401	SPAN_T1	7	7	0	0.73	0.54	-0.19	0	0	0	0	0	0	0	0
9/3/2024 10:33	65001	NEFF_T2	0	0	0	0	0	0	-0.56	-0.52	1	1	0	1200	1200	0
9/3/2024 10:33	26401	INOR_T1	1	2	1	7.1	3.9	-3.2	0	0	0	0	0	0	0	0
9/3/2024 10:33	65005	NEFF_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
9/3/2024 10:33	26402	INOR_T1	0	1	1	0	0.3	0.3	-1.87	-1.83	1	1	0	600	600	0
9/3/2024 10:33	57403	SPAN_T1	8	4	-4	0.23	0.4	0.17	0.03	0.04	0	0	0	0	0	0
9/3/2024 10:33	65003	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 10:34	54202	PENN_T2	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
9/3/2024 10:34	54206	PENN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:35	54206	PENN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:35	65003	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 10:35	65004	NEFF_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
9/3/2024 10:35	65005	NEFF_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
9/3/2024 10:35	54202	PENN_T2	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
9/3/2024 10:36	57403	SPAN_T1	8	4	-4	0.23	0.4	0.17	0.03	0.04	0	0	0	0	0	0
9/3/2024 10:36	54206	PENN_T2	1	1	0	0.1	0.2	0.1	0.26	0.25	0	0	0	0	0	0
9/3/2024 10:36	57401	SPAN_T1	7	7	0	0.73	0.54	-0.19	0	0	0	0	0	0	0	0
9/3/2024 10:37	54206	PENN_T2	1	1	0	0.1	0.2	0.1	0.25	0.25	0	0	0	0	0	0
9/3/2024 10:37	15703	TANN_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:37	15702	TANN_T2	1	2	1	0.3	0.3	0	-0.65	-0.67	0	0	0	0	0	0
9/3/2024 10:37	57104	SPHI_T2	0	1	1	0	0.1	0.1	-1.94	-1.93	1	1	0	900	900	0
9/3/2024 10:37	57106	SPHI_T2	3	3	0	1.03	1.1	0.07	0	0	0	0	0	0	0	0
9/3/2024 10:37	57101	SPHI_T2	0	5	5	0	0.26	0.26	0	0	0	0	0	0	0	0
9/3/2024 10:38	65901	SAKR_T2	1	1	0	7.5	7.7	0.2	0	0	0	0	0	0	0	0
9/3/2024 10:38	57104	SPHI_T2	0	1	1	0	0.1	0.1	-1.94	-1.93	1	1	0	900	900	0
9/3/2024 10:38	15703	TANN_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:38	15204	SFAR_T2	3	3	0	0.33	0.53	0.2	0.13	0.13	0	0	0	0	0	0
9/3/2024 10:38	57106	SPHI_T2	3	3	0	1.03	1.1	0.07	0	0	0	0	0	0	0	0
9/3/2024 10:38	15702	TANN_T2	1	2	1	0.3	0.3	0	-0.32	-0.34	0	0	0	0	0	0
9/3/2024 10:38	15203	SFAR_T2	35	44	9	0.28	0.31	0.03	0	0	0	0	0	0	0	0
9/3/2024 10:38	57101	SPHI_T2	0	5	5	0	0.26	0.26	0	0	0	0	0	0	0	0
9/3/2024 10:38	65904	SAKR_T2	0	6	6	0	0.28	0.28	-2	-1.97	3	3	0	1500	1500	0
9/3/2024 10:39	54206	PENN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:39	54202	PENN_T2	0	0	0	0	0	0	-0.67	-0.63	0	0	0	0	0	0
9/3/2024 10:40	57106	SPHI_T2	3	3	0	1.03	1.1	0.07	0	0	0	0	0	0	0	0
9/3/2024 10:40	57101	SPHI_T2	0	5	5	0	0.26	0.26	0	0	0	0	0	0	0	0
9/3/2024 10:40	63401	HONY_T1	0	0	0	0	0	0	-0.03	0.02	1	1	0	600	600	0
9/3/2024 10:40	57104	SPHI_T2	0	1	1	0	0.1	0.1	-1.94	-1.93	1	1	0	900	900	0
9/3/2024 10:41	67605	WARW_T1	23	26	3	0.56	0.59	0.03	0	0	0	0	0	0	0	0
9/3/2024 10:41	67603	WARW_T1	2	2	0	0.2	0.65	0.45	0.19	0.11	0	0	0	0	0	0
9/3/2024 10:42	62605	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:42	67605	WARW_T1	23	26	3	0.56	0.59	0.03	-1.01	-1.01	0	0	0	0	0	0
9/3/2024 10:42	62607	ENGL_T1	1	1	0	0.1	0.2	0.1	-1.03	-1.02	1	1	0	300	300	0
9/3/2024 10:42	60801	BUCK_T1	1	1	0	0.1	0.1	0	0.13	0.08	0	0	0	0	0	0
9/3/2024 10:42	67603	WARW_T1	2	2	0	0.2	0.65	0.45	0	0	0	0	0	0	0	0
9/3/2024 10:42	46004	BERW_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
9/3/2024 10:43	60101	COCA_T1	2	2	0	0.15	0.3	0.15	0.39	0.47	0	0	0	0	0	0
9/3/2024 10:43	67603	WARW_T1	2	2	0	0.2	0.65	0.45	0	0	0	0	0	0	0	0
9/3/2024 10:43	67605	WARW_T1	23	26	3	0.56	0.59	0.03	-1.01	-1.01	0	0	0	0	0	0
9/3/2024 10:44	60101	COCA_T1	2	2	0	0.15	0.3	0.15	0.78	0.94	0	0	0	0	0	0
9/3/2024 10:44	11901	ETEX_T2	0	0	0	0	0	0	0.37	0.4	0	0	0	0	0	0
9/3/2024 10:44	11904	ETEX_T2	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:46	60101	COCA_T1	2	2	0	0.2	0.45	0.25	0.39	0.47	0	0	0	0	0	0
9/3/2024 10:47	63801	HEMP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 10:47	53501	EVIL_T2	2	1	-1	0.55	0.2	-0.35	-0.01	-0.01	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/3/2024 10:47	63804	HEMP_T1	1	1	0	6.9	6.4	-0.5	0.79	-0.51	0	0	0	0	0	0
9/3/2024 10:48	52002	LING_T2	0	0	0	0	0	0	0	0.06	0	0	0	0	0	0
9/3/2024 10:48	53501	EVIL_T2	2	1	-1	0.55	0.2	-0.35	-0.01	-0.01	1	1	0	600	600	0
9/3/2024 10:48	12704	MACU_T1	0	0	0	0	0	0	-0.96	-0.93	0	0	0	0	0	0
9/3/2024 10:48	52004	LING_T2	6	6	0	2.45	2.42	-0.03	0	0	0	0	0	0	0	0
9/3/2024 10:49	53501	EVIL_T2	2	1	-1	0.55	0.2	-0.35	-0.01	-0.01	1	1	0	600	600	0
9/3/2024 10:51	53501	EVIL_T2	2	1	-1	0.55	0.2	-0.35	-0.01	-0.01	1	1	0	600	600	0
9/3/2024 10:52	53501	EVIL_T2	2	1	-1	0.55	0.2	-0.35	-0.01	-0.01	1	2	1	600	1500	900
9/3/2024 10:53	53501	EVIL_T2	2	1	-1	0.55	0.2	-0.35	-0.01	-0.01	1	2	1	600	1500	900
9/3/2024 10:53	67203	TEHI_T1	0	0	0	0	0	0	2.03	2.14	3	3	0	2100	2100	0
9/3/2024 10:53	66505	SMAN_T2	0	0	0	0	0	0	0.69	0.85	1	1	0	900	900	0
9/3/2024 10:53	67201	TEHI_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
9/3/2024 10:53	66502	SMAN_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
9/3/2024 10:53	66504	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/3/2024 10:54	59201	THOM_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/3/2024 10:54	59202	THOM_T1	2	4	2	0.3	0.55	0.25	0	0	0	0	0	0	0	0
9/3/2024 10:54	67201	TEHI_T1	0	2	2	0	0.35	0.35	1.07	1.12	1	1	0	900	900	0
9/3/2024 10:54	42201	SHEN_T2	0	0	0	0	0	0	0.55	0.61	0	0	0	0	0	0
9/3/2024 10:55	64101	REFR_T1	0	0	0	0	0	0	-0.06	0.01	0	0	0	0	0	0
9/3/2024 10:56	66502	SMAN_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
9/3/2024 10:56	64101	REFR_T1	0	0	0	0	0	0	-0.06	0.01	0	0	0	0	0	0
9/3/2024 10:56	66504	SMAN_T2	0	1	1	0	0.4	0.4	-0.17	-0.2	0	0	0	0	0	0
9/3/2024 10:57	60101	COCA_T1	2	2	0	0.2	0.45	0.25	0.47	0.43	0	0	0	0	0	0
9/3/2024 10:57	40201	BEGA_T2	4	2	-2	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
9/3/2024 10:57	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 10:57	61301	EARL_T1	0	0	0	0	0	0	-1.01	-0.99	2	2	0	1800	1800	0
9/3/2024 10:58	57403	SPAN_T1	3	5	2	0.33	0.34	0.01	0	0	0	0	0	0	0	0
9/3/2024 10:58	66504	SMAN_T2	0	1	1	0	0.4	0.4	-0.33	-0.39	0	0	0	0	0	0
9/3/2024 10:58	66502	SMAN_T2	1	1	0	0.1	0.8	0.7	0.41	0.41	0	0	0	0	0	0
9/3/2024 10:58	57401	SPAN_T1	4	7	3	0.63	0.57	-0.06	-0.82	-0.82	1	1	0	600	600	0
9/3/2024 10:58	60101	COCA_T1	2	2	0	0.2	0.45	0.25	0.94	0.86	0	0	0	0	0	0
9/3/2024 10:59	29401	BELT_T1	26	10	-16	0.15	0.19	0.04	0	0	0	0	0	0	0	0
9/3/2024 10:59	29402	BELT_T1	4	5	1	2.65	2.04	-0.61	0	0	0	0	0	0	0	0
9/3/2024 11:00	57403	SPAN_T1	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/3/2024 11:00	29401	BELT_T1	10	4	-6	0.19	0.33	0.14	0	0	1	1	0	900	900	0
9/3/2024 11:00	29402	BELT_T1	5	5	0	2.04	2.08	0.04	0	0	0	0	0	0	0	0
9/3/2024 11:00	57401	SPAN_T1	7	6	-1	0.54	0.65	0.11	-0.82	-0.82	1	1	0	600	600	0
9/3/2024 11:01	57401	SPAN_T1	7	6	-1	0.54	0.65	0.11	-1.64	-1.64	2	2	0	1200	1200	0
9/3/2024 11:01	57403	SPAN_T1	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/3/2024 11:02	50501	MECH_T1	4	4	0	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
9/3/2024 11:02	50506	MECH_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
9/3/2024 11:02	50502	MECH_T1	1	2	1	2.5	2.4	-0.1	-0.23	-0.24	0	0	0	0	0	0
9/3/2024 11:02	57403	SPAN_T1	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/3/2024 11:02	57401	SPAN_T1	7	6	-1	0.54	0.65	0.11	-0.82	-0.82	1	1	0	600	600	0
9/3/2024 11:02	12701	MACU_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
9/3/2024 11:03	64204	KINZ_T1	3	4	1	0.47	0.53	0.06	0	0	0	0	0	0	0	0
9/3/2024 11:03	64203	KINZ_T1	0	0	0	0	0	0	0.9	1.02	2	2	0	900	900	0
9/3/2024 11:04	57403	SPAN_T1	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/3/2024 11:04	57401	SPAN_T1	7	6	-1	0.54	0.65	0.11	-1.64	-1.64	2	2	0	1200	1200	0
9/3/2024 11:04	12701	MACU_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
9/3/2024 11:04	28102	TWLA_T2	14	13	-1	0.54	0.49	-0.05	0.2	0.21	0	0	0	0	0	0
9/3/2024 11:05	67002	STHI_T2	0	1	1	0	0.2	0.2	0.67	0.74	0	0	0	0	0	0
9/3/2024 11:06	42802	SELI_T1	0	0	0	0	0	0	-1.04	-1.02	1	1	0	900	900	0
9/3/2024 11:07	42802	SELI_T1	0	0	0	0	0	0	-1.04	-1.02	1	1	0	900	900	0
9/3/2024 11:07	64902	MILL_T2	0	0	0	0	0	0	-0.52	-0.56	1	1	0	900	900	0
9/3/2024 11:08	42802	SELI_T1	0	0	0	0	0	0	-1.04	-1.02	1	1	0	900	900	0
9/3/2024 11:08	41902	REED_T1	1	1	0	0.1	0.5	0.4	1.2	1.19	0	0	0	0	0	0
9/3/2024 11:08	23002	SAJO_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
9/3/2024 11:08	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 11:08	23001	SAJO_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
9/3/2024 11:09	57403	SPAN_T1	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/3/2024 11:09	57401	SPAN_T1	7	6	-1	0.54	0.65	0.11	-0.82	-0.64	1	1	0	600	600	0
9/3/2024 11:10	53601	DALM_T2	1	1	0	1.2	0.8	-0.4	-0.2	-0.17	1	1	0	900	900	0
9/3/2024 11:10	14801	TREI_T2	3	3	0	0.47	0.6	0.13	0.54	0.52	0	0	0	0	0	0
9/3/2024 11:10	67502	WEWI_T2	2	3	1	1.45	1	-0.45	0	0	0	0	0	0	0	0
9/3/2024 11:10	64101	REFR_T1	0	1	1	0	0.2	0.2	0.01	-0.01	0	0	0	0	0	0
9/3/2024 11:10	67503	WEWI_T2	1	1	0	8.8	8.6	-0.2	-0.07	-0.09	0	0	0	0	0	0
9/3/2024 11:10	14802	TREI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 11:11	13701	SCHN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/3/2024 11:11	61803	EELI_T2	0	1	1	0	0.1	0.1	1.06	1.11	0	0	0	0	0	0
9/3/2024 11:11	13704	SCHN_T2	1	1	0	0.2	0.2	0	-0.25	-0.13	0	0	0	0	0	0
9/3/2024 11:12	44802	EDAN_T2	2	2	0	0.15	0.1	-0.05	-0.66	-0.64	0	0	0	0	0	0
9/3/2024 11:12	44801	EDAN_T2	163	151	-12	0.71	0.68	-0.03	-1.52	-1.53	0	0	0	0	0	0
9/3/2024 11:12	45901	AUBU_T1	0	2	2	0	0.1	0.1	0.29	0.29	0	0	0	0	0	0
9/3/2024 11:12	59202	THOM_T1	4	3	-1	0.48	0.67	0.19	0	0	0	0	0	0	0	0
9/3/2024 11:12	45902	AUBU_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
9/3/2024 11:12	51603	DUKE_T1	0	0	0	0	0	0	-0.42	-0.39	0	0	0	0	0	0
9/3/2024 11:12	59201	THOM_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
9/3/2024 11:13	54601	SUMM_T2	1	9	8	0.2	0.29	0.09	0	0	0	0	0	0	0	0
9/3/2024 11:13	44801	EDAN_T2	163	151	-12	0.71	0.68	-0.03	0	0	0	0	0	0	0	0
9/3/2024 11:13	16002	DORN_T2	0	0	0	0	0	0	-0.68	-0.67	1	1	0	1200	1200	0
9/3/2024 11:13	44802	EDAN_T2	2	2	0	0.15	0.1	-0.05	-1.31	-1.29	0	0	0	0	0	0
9/3/2024 11:13	54603	SUMM_T2	0	0	0	0	0	0	-0.02	0	1	1	0	900	900	0
9/3/2024 11:14	44802	EDAN_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/3/2024 11:14	61505	EPET_T1	0	0	0	0	0	0	0.25	0.28	0	0	0	0	0	0
9/3/2024 11:14	44801	EDAN_T2	163	151	-12	0.71	0.68	-0.03	-1.52	-1.53	0	0	0	0	0	0
9/3/2024 11:15	67503	WEWI_T2	1	1	0	8.6	8.5	-0.1	-0.07	-0.09	0	0	0	0	0	0
9/3/2024 11:15	67502	WEWI_T2	2	4	2	1.4	0.83	-0.57	0	0	0	0	0	0	0	0
9/3/2024 11:15	44802	EDAN_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
9/3/2024 11:15	44801	EDAN_T2	150	152	2	0.64	0.67	0.03	-1.52	-1.53	0	0	0	0	0	0
9/3/2024 11:16	44802	EDAN_T2	0	4	4	0	0.18	0.18	-0.66	-0.64	0	0	0	0	0	0
9/3/2024 11:16	45802	HEGI_T2	1	12	11	0.3	0.34	0.04	0.73	0.39	1	1	0	900	900	0
9/3/2024 11:16	44801	EDAN_T2	150	152	2	0.64	0.67	0.03	0	0	0	0	0	0	0	0
9/3/2024 11:17	44801	EDAN_T2	150	152	2	0.64	0.67	0.03	0	0	0	0	0	0	0	0
9/3/2024 11:17	44802	EDAN_T2	0	4	4	0	0.18	0.18	-0.66	-0.64	0	0	0	0	0	0
9/3/2024 11:18	63501	HEID_TBK1-2	47	48	1	0.52	0.33	-0.19	0.31	0.42	1	1	0	900	900	0
9/3/2024 11:18	28701	HAML_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/3/2024 11:18	53902	HALI_T2	2	4	2	2.65	1.7	-0.95	0	0	0	0	0	0	0	0
9/3/2024 11:18	28702	HAML_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
9/3/2024 11:18	53903	HALI_T2	6	9	3	0.62	0.68	0.06	0	0	0	0	0	0	0	0
9/3/2024 11:18	45802	HEGI_T2	1	12	11	0.3	0.34	0.04	0.73	0.39	1	1	0	900	900	0
9/3/2024 11:18	53901	HALI_T2	4	4	0	0.45	0.65	0.2	-2.43	-2.44	0	0	0	0	0	0
9/3/2024 11:19	64101	REFR_T1	0	1	1	0	0.4	0.4	0.01	-0.01	0	0	0	0	0	0
9/3/2024 11:19	53902	HALI_T2	2	4	2	2.65	1.7	-0.95	-0.12	-0.12	0	0	0	0	0	0
9/3/2024 11:19	53901	HALI_T2	4	4	0	0.45	0.65	0.2	-3.64	-3.66	0	0	0	0	0	0
9/3/2024 11:19	53903	HALI_T2	6	9	3	0.62	0.68	0.06	0	0	0	0	0	0	0	0
9/3/2024 11:20	44703	MUNC_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/3/2024 11:20	53903	HALI_T2	6	9	3	0.62	0.68	0.06	-0.13	-0.13	0	0	0	0	0	0
9/3/2024 11:20	53902	HALI_T2	2	4	2	2.65	1.7	-0.95	0	0	0	0	0	0	0	0
9/3/2024 11:20	53901	HALI_T2	4	4	0	0.45	0.65	0.2	-1.21	-1.22	0	0	0	0	0	0
9/3/2024 11:20	44701	MUNC_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
9/3/2024 11:21	65205	PRIN_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/3/2024 11:22	42802	SELI_T1	0	0	0	0	0	0	-1.02	-1.02	1	1	0	900	900	0
9/3/2024 11:22	56504	ROCK_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/3/2024 11:22	56503	ROCK_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/3/2024 11:22	56501	ROCK_T2	4	5	1	0.55	0.42	-0.13	0.15	0.16	0	0	0	0	0	0
9/3/2024 11:23	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 11:23	55101	WERT_T1	0	0	0	0	0	0	-2.46	-2.49	4	4	0	3000	3000	0
9/3/2024 11:23	41902	REED_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
9/3/2024 11:23	42802	SELI_T1	0	0	0	0	0	0	-1.02	-1.02	1	1	0	900	900	0
9/3/2024 11:24	44302	BEAV_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/3/2024 11:24	44301	BEAV_T2	3	3	0	0.37	0.37	0	-0.33	-0.36	2	2	0	1500	1500	0
9/3/2024 11:24	42802	SELI_T1	0	0	0	0	0	0	-2.03	-2.03	2	2	0	1800	1800	0
9/3/2024 11:24	64101	REFR_T1	0	1	1	0	0.4	0.4	-0.01	-0.03	0	0	0	0	0	0
9/3/2024 11:26	44301	BEAV_T2	3	3	0	0.37	0.37	0	-0.33	-0.36	2	2	0	1500	1500	0
9/3/2024 11:26	11302	EMMA_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/3/2024 11:26	66903	SHIL_T2	2	4	2	0.7	0.5	-0.2	-0.79	-0.8	0	0	0	0	0	0
9/3/2024 11:26	11301	EMMA_T1	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
9/3/2024 11:26	44302	BEAV_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/3/2024 11:26	11303	EMMA_T1	1	1	0	1	1.6	0.6	0	0	0	0	0	0	0	0
9/3/2024 11:26	66901	SHIL_T2	0	1	1	0	0.2	0.2	0	0.01	0	0	0	0	0	0
9/3/2024 11:26	66902	SHIL_T2	2	5	3	0.55	0.38	-0.17	0	0	0	0	0	0	0	0
9/3/2024 11:26	64101	REFR_T1	0	1	1	0	0.4	0.4	-0.01	-0.03	0	0	0	0	0	0
9/3/2024 11:27	21204	ECAR_T2	1	1	0	0	0	0	-0.63	-0.57	0	0	0	0	0	0
9/3/2024 11:27	21206	ECAR_T2	6	2	-4	1.35	7.3	5.95	0	0	0	0	0	0	0	0
9/3/2024 11:27	44302	BEAV_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/3/2024 11:27	44301	BEAV_T2	3	3	0	0.37	0.37	0	-0.33	-0.36	2	2	0	1500	1500	0
9/3/2024 11:28	66903	SHIL_T2	2	4	2	0.7	0.5	-0.2	-0.79	-0.8	0	0	0	0	0	0
9/3/2024 11:28	66901	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 11:28	66902	SHIL_T2	2	5	3	0.55	0.38	-0.17	0	0	0	0	0	0	0	0
9/3/2024 11:29	44301	BEAV_T2	3	3	0	0.37	0.37	0	-0.33	-0.36	2	2	0	1500	1500	0
9/3/2024 11:29	44302	BEAV_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/3/2024 11:34	28805	LAKE_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
9/3/2024 11:34	40101	HUNT_T2	1	0	-1	0.4	0	-0.4	-0.15	-0.17	0	0	0	0	0	0
9/3/2024 11:34	42903	MIDD_T2	0	2	2	0	0.25	0.25	0.76	0.94	1	1	0	1200	1200	0
9/3/2024 11:34	42902	MIDD_T2	2	4	2	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/3/2024 11:35	58102	NEKI_T1	2	3	1	0.9	1.03	0.13	-0.73	-0.58	1	1	0	1200	1200	0
9/3/2024 11:35	51201	MTON_T1	1	2	1	0.5	0.9	0.4	0.1	0.11	0	0	0	0	0	0
9/3/2024 11:35	58101	NEKI_T1	3	6	3	0.9	0.97	0.07	0	0	0	0	0	0	0	0
9/3/2024 11:36	66302	MCGO_T2	5	409	404	0.18	0.45	0.27	-0.7	-1.44	1	1	0	600	600	0
9/3/2024 11:37	13701	SCHN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/3/2024 11:37	13704	SCHN_T2	1	1	0	0.2	0.2	0	-0.11	-0.04	0	0	0	0	0	0
9/3/2024 11:37	43801	SWIL_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
9/3/2024 11:37	43802	SWIL_T1	0	0	0	0	0	0	-0.09	-0.09	1	1	0	600	600	0
9/3/2024 11:38	14402	SSLA_T1	4	4	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/3/2024 11:38	14404	SSLA_T1	4	4	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
9/3/2024 11:38	14403	SSLA_T1	3	5	2	0.6	0.5	-0.1	0.78	0.77	0	0	0	0	0	0
9/3/2024 11:38	14401	SSLA_T1	3	4	1	0.37	0.38	0.01	0	0	0	0	0	0	0	0
9/3/2024 11:39	49803	UNIV_T1	1	2	1	6	7.25	1.25	-0.89	-0.81	0	0	0	0	0	0
9/3/2024 11:40	20403	ASHF_T2	9	8	-1	0.81	0.79	-0.02	1.42	1.39	0	0	0	0	0	0
9/3/2024 11:40	15001	BLMO_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/3/2024 11:40	20401	ASHF_T2	4	5	1	0.45	0.47	0.02	0	0	0	0	0	0	0	0
9/3/2024 11:40	20402	ASHF_T2	1	3	2	0.3	0.13	-0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/3/2024 11:42	29402	BELT_T1	5	6	1	2.08	1.82	-0.26	0	0	0	0	0	0	0	0
9/3/2024 11:42	54505	ENOL_T2	2	2	0	0.2	0.75	0.55	0	0	0	0	0	0	0	0
9/3/2024 11:42	54504	ENOL_T2	1	1	0	0.9	1.6	0.7	0	0	0	0	0	0	0	0
9/3/2024 11:42	29401	BELT_T1	4	6	2	0.33	0.28	-0.05	0	0	1	1	0	900	900	0
9/3/2024 11:42	54502	ENOL_T2	0	1	1	0	0.3	0.3	-1.11	-1.11	1	1	0	600	600	0
9/3/2024 11:42	67502	WEWI_T2	3	5	2	0.93	0.68	-0.25	-0.17	-0.1	0	0	0	0	0	0
9/3/2024 11:42	67503	WEWI_T2	1	1	0	8.5	8.3	-0.2	0	0	0	0	0	0	0	0
9/3/2024 11:44	46401	FLEM_T2	9	32	23	0.56	0.32	-0.24	0	0	0	0	0	0	0	0
9/3/2024 11:44	60801	BUCK_T1	2	2	0	0.15	0.2	0.05	0.07	-0.01	0	0	0	0	0	0
9/3/2024 11:44	46402	FLEM_T2	24	30	6	0.13	0.3	0.17	0.06	0.05	0	0	0	0	0	0
9/3/2024 11:44	40801	EXCH_T2	2	2	0	0.5	0.65	0.15	-0.41	-0.41	1	1	0	1200	1200	0
9/3/2024 11:44	40802	EXCH_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/3/2024 11:45	45901	AUBU_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/3/2024 11:45	45902	AUBU_T1	1	1	0	1.3	1.3	0	0.21	0.22	0	0	0	0	0	0
9/3/2024 11:46	11901	ETEX_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
9/3/2024 11:46	16004	DORN_T1	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
9/3/2024 11:46	57403	SPAN_T1	18	15	-3	0.37	0.4	0.03	0	0	0	0	0	0	0	0
9/3/2024 11:46	16005	DORN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/3/2024 11:46	63401	HONY_T1	0	0	0	0	0	0	0.02	-0.12	1	1	0	600	600	0
9/3/2024 11:46	63404	HONY_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/3/2024 11:46	57401	SPAN_T1	7	6	-1	0.79	0.78	-0.01	0.08	0.16	0	0	0	0	0	0
9/3/2024 11:46	11904	ETEX_T2	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
9/3/2024 11:47	46402	FLEM_T2	8	32	24	0.49	0.41	-0.08	0.06	0.05	0	0	0	0	0	0
9/3/2024 11:47	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/3/2024 11:47	54504	ENOL_T2	1	1	0	1.6	1.5	-0.1	-1.62	-1.57	1	1	0	600	600	0
9/3/2024 11:47	46401	FLEM_T2	6	61	55	0.7	0.27	-0.43	0	0	0	0	0	0	0	0
9/3/2024 11:47	58401	MORO_T1	0	1	1	0	0.1	0.1	-0.2	-0.17	0	0	0	0	0	0
9/3/2024 11:47	58402	MORO_T1	2	6	4	0.35	0.32	-0.03	0.03	0	2	2	0	1500	1500	0
9/3/2024 11:47	54505	ENOL_T2	2	2	0	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
9/3/2024 11:48	58102	NEKI_T1	3	3	0	1	0.97	-0.03	-0.58	-0.65	1	1	0	1200	1200	0
9/3/2024 11:48	58101	NEKI_T1	6	6	0	0.93	0.88	-0.05	0	0	0	0	0	0	0	0
9/3/2024 11:49	57403	SPAN_T1	18	15	-3	0.37	0.4	0.03	0.1	0.12	0	0	0	0	0	0
9/3/2024 11:49	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 11:49	44201	POIN_T1	0	2	2	0	0.25	0.25	-0.57	-1.26	2	2	0	2100	2100	0
9/3/2024 11:49	58402	MORO_T1	2	6	4	0.35	0.32	-0.03	0.03	0	2	2	0	1500	1500	0
9/3/2024 11:49	57401	SPAN_T1	7	6	-1	0.79	0.78	-0.01	0.08	0.16	0	0	0	0	0	0
9/3/2024 11:50	58402	MORO_T1	2	6	4	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
9/3/2024 11:50	58401	MORO_T1	0	1	1	0	0.1	0.1	-0.2	-0.17	0	0	0	0	0	0
9/3/2024 11:51	12605	MACA_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/3/2024 11:51	12602	MACA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/3/2024 11:51	57401	SPAN_T1	7	6	-1	0.79	0.78	-0.01	0.08	0.16	0	0	0	0	0	0
9/3/2024 11:51	12601	MACA_T1	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
9/3/2024 11:51	57403	SPAN_T1	18	15	-3	0.37	0.4	0.03	0	0	0	0	0	0	0	0
9/3/2024 11:51	51201	MTON_T1	1	1	0	0.9	0.7	-0.2	0.11	0.12	0	0	0	0	0	0
9/3/2024 11:51	12604	MACA_T1	3	3	0	0.27	0.43	0.16	0.39	0.4	0	0	0	0	0	0
9/3/2024 11:52	57401	SPAN_T1	7	6	-1	0.79	0.78	-0.01	0.16	0.12	0	0	0	0	0	0
9/3/2024 11:52	14404	SSLA_T1	4	4	0	0.6	0.58	-0.02	0.07	0.11	0	0	0	0	0	0
9/3/2024 11:52	57403	SPAN_T1	18	15	-3	0.37	0.4	0.03	0	0	0	0	0	0	0	0
9/3/2024 11:52	14401	SSLA_T1	3	4	1	0.43	0.53	0.1	0	0	0	0	0	0	0	0
9/3/2024 11:52	14402	SSLA_T1	4	5	1	0.55	0.54	-0.01	0	0	0	0	0	0	0	0
9/3/2024 11:52	14403	SSLA_T1	3	5	2	0.63	0.48	-0.15	0	0	0	0	0	0	0	0
9/3/2024 11:53	13704	SCHN_T2	1	3	2	0.1	0.2	0.1	-0.04	-0.21	0	0	0	0	0	0
9/3/2024 11:53	13701	SCHN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 11:55	64101	REFR_T1	1	2	1	0.4	0.6	0.2	-0.01	0	0	0	0	0	0	0
9/3/2024 11:56	15201	SFAR_T1	0	0	0	0	0	0	-0.01	0	2	2	0	1800	1800	0
9/3/2024 11:57	53501	EVIL_T2	1	3	2	0.1	0.4	0.3	-0.01	-0.01	1	1	0	600	600	0
9/3/2024 11:57	64101	REFR_T1	1	2	1	0.4	0.6	0.2	-0.01	0	0	0	0	0	0	0
9/3/2024 11:57	67503	WEWI_T2	1	1	0	8.3	8.2	-0.1	0	0	0	0	0	0	0	0
9/3/2024 11:57	42701	AUGU_T1	2	2	0	1.15	1.05	-0.1	0	0	2	2	0	1800	1800	0
9/3/2024 11:57	67502	WEWI_T2	4	6	2	0.83	0.58	-0.25	-0.1	-0.2	0	0	0	0	0	0
9/3/2024 11:59	52402	GRPA_T2	18	19	1	0.56	0.55	-0.01	0	0	0	0	0	0	0	0
9/3/2024 11:59	52401	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/3/2024 11:59	66502	SMAN_T2	2	3	1	0.55	0.6	0.05	0	0	0	0	0	0	0	0
9/3/2024 11:59	66501	SMAN_T2	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
9/3/2024 11:59	61506	EPET_T2	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
9/3/2024 11:59	52403	GRPA_T2	144	137	-7	1.54	1.31	-0.23	-0.01	-0.06	0	0	0	0	0	0
9/3/2024 11:59	61504	EPET_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/3/2024 11:59	66504	SMAN_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/3/2024 11:59	61501	EPET_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
9/3/2024 12:00	64501	LAVI_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
9/3/2024 12:00	64503	LAVI_T1	0	0	0	0	0	0	-1.17	-1.36	1	1	0	1200	1200	0
9/3/2024 12:01	53903	HALI_T2	9	9	0	0.61	0.58	-0.03	0	0	0	0	0	0	0	0
9/3/2024 12:01	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 12:01	40701	FFLD_T1	6	25	19	0.1	0.14	0.04	0	0	0	0	0	0	0	0
9/3/2024 12:01	53902	HALI_T2	4	4	0	1.8	1.93	0.13	0	0	0	0	0	0	0	0
9/3/2024 12:01	53901	HALI_T2	3	6	3	0.53	0.63	0.1	-1.21	-1.22	0	0	0	0	0	0
9/3/2024 12:02	53901	HALI_T2	3	6	3	0.53	0.63	0.1	-1.21	-1.22	0	0	0	0	0	0
9/3/2024 12:02	64501	LAVI_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
9/3/2024 12:02	53903	HALI_T2	9	9	0	0.61	0.58	-0.03	0	0	0	0	0	0	0	0
9/3/2024 12:02	53902	HALI_T2	4	4	0	1.8	1.93	0.13	0	0	0	0	0	0	0	0
9/3/2024 12:02	64503	LAVI_T1	0	0	0	0	0	0	-1.17	-1.36	1	1	0	1200	1200	0
9/3/2024 12:03	59003	MIFF_T1	1	1	0	0.6	0.2	-0.4	-0.9	-0.04	0	0	0	0	0	0
9/3/2024 12:03	59001	MIFF_T1	3	3	0	0.83	0.73	-0.1	0	0	0	0	0	0	0	0
9/3/2024 12:03	52401	GRPA_T2	1	1	0	0.5	0.3	-0.2	-0.44	-0.43	0	0	0	0	0	0
9/3/2024 12:03	53901	HALI_T2	3	6	3	0.53	0.63	0.1	1.21	-1.22	0	0	0	0	0	0
9/3/2024 12:03	41001	LAUR_T2	7	25	18	0.69	0.32	-0.37	0	0	0	0	0	0	0	0
9/3/2024 12:03	64503	LAVI_T1	0	0	0	0	0	0	-1.17	-1.36	1	1	0	1200	1200	0
9/3/2024 12:03	42903	MIDD_T2	2	7	5	0.25	0.8	0.55	0	0	0	0	0	0	0	0
9/3/2024 12:03	52402	GRPA_T2	19	66	47	0.55	0.33	-0.22	0	0	0	0	0	0	0	0
9/3/2024 12:03	64303	LINC_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 12:03	64305	LINC_T1	1	2	1	0.5	0.55	0.05	0.05	-0.04	0	0	0	0	0	0
9/3/2024 12:03	64501	LAVI_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
9/3/2024 12:03	53903	HALI_T2	9	9	0	0.61	0.58	-0.03	0	0	0	0	0	0	0	0
9/3/2024 12:03	53902	HALI_T2	4	4	0	1.8	1.93	0.13	0	0	0	0	0	0	0	0
9/3/2024 12:03	59002	MIFF_T1	6	6	0	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
9/3/2024 12:03	52403	GRPA_T2	137	144	7	1.29	1.23	-0.06	0	0	0	0	0	0	0	0
9/3/2024 12:03	41002	LAUR_T2	2	2	0	1.25	1.3	0.05	0.1	0.11	0	0	0	0	0	0
9/3/2024 12:03	42902	MIDD_T2	4	13	9	0.5	0.64	0.14	-0.3	-0.5	1	1	0	600	600	0
9/3/2024 12:04	64501	LAVI_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
9/3/2024 12:04	64503	LAVI_T1	0	0	0	0	0	0	-1.17	-1.36	1	1	0	1200	1200	0
9/3/2024 12:04	64704	LITI_T1	0	0	0	0	0	0	0.46	0.29	1	1	0	600	600	0
9/3/2024 12:05	53903	HALI_T2	9	9	0	0.61	0.58	-0.03	0	0	0	0	0	0	0	0
9/3/2024 12:05	53902	HALI_T2	4	4	0	1.8	1.93	0.13	0	0	0	0	0	0	0	0
9/3/2024 12:05	53901	HALI_T2	3	6	3	0.53	0.63	0.1	-1.21	-1.22	0	0	0	0	0	0
9/3/2024 12:05	42903	MIDD_T2	2	7	5	0.25	0.8	0.55	0	0	0	0	0	0	0	0
9/3/2024 12:05	42902	MIDD_T2	4	13	9	0.5	0.64	0.14	-0.6	-1	2	2	0	1200	1200	0
9/3/2024 12:06	42902	MIDD_T2	4	13	9	0.5	0.64	0.14	-0.5	-0.56	1	1	0	600	600	0
9/3/2024 12:06	42903	MIDD_T2	2	7	5	0.25	0.8	0.55	0.13	0.11	1	1	0	1200	1200	0
9/3/2024 12:07	66701	STRA_T1	1	2	1	0.4	0.75	0.35	0	0	0	0	0	0	0	0
9/3/2024 12:07	66703	STRA_T1	1	1	0	0.3	0.8	0.5	0.05	0.1	0	0	0	0	0	0
9/3/2024 12:08	51304	WIND_T2	1	1	0	1.3	1.7	0.4	0	0	0	0	0	0	0	0
9/3/2024 12:08	51306	WIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 12:08	24201	PROV_T3	6	11	5	1.38	0.85	-0.53	-1.18	-1.18	1	1	0	1200	1200	0
9/3/2024 12:08	24204	PROV_T3	1	2	1	6.2	2.95	-3.25	0	0	0	0	0	0	0	0
9/3/2024 12:08	24205	PROV_T3	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 12:09	52401	GRPA_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/3/2024 12:09	67502	WEWI_T2	5	6	1	0.66	0.63	-0.03	-0.2	-0.23	0	0	0	0	0	0
9/3/2024 12:09	13704	SCHN_T2	1	2	1	0.2	0.4	0.2	-0.21	-0.23	0	0	0	0	0	0
9/3/2024 12:09	67503	WEWI_T2	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
9/3/2024 12:09	52402	GRPA_T2	19	66	47	0.55	0.33	-0.22	0	0	0	0	0	0	0	0
9/3/2024 12:09	13701	SCHN_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/3/2024 12:09	52403	GRPA_T2	137	144	7	1.29	1.23	-0.06	-0.06	-0.08	0	0	0	0	0	0
9/3/2024 12:10	66502	SMAN_T2	2	1	-1	0.55	1	0.45	0.3	0.29	0	0	0	0	0	0
9/3/2024 12:10	66504	SMAN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/3/2024 12:10	66501	SMAN_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
9/3/2024 12:11	64101	REFR_T1	0	2	2	0	0.6	0.6	0	0.04	0	0	0	0	0	0
9/3/2024 12:11	55105	WERT_T1	0	0	0	0	0	0	-0.22	-0.25	1	1	0	900	900	0
9/3/2024 12:13	64101	REFR_T1	0	2	2	0	0.6	0.6	0	0.04	0	0	0	0	0	0
9/3/2024 12:15	46206	DANV_T2	1	1	0	0.1	0.3	0.2	1.86	1.9	2	2	0	2100	2100	0
9/3/2024 12:15	67502	WEWI_T2	4	6	2	0.83	0.53	-0.3	0	0	0	0	0	0	0	0
9/3/2024 12:15	67503	WEWI_T2	1	1	0	8.2	8.3	0.1	0.04	0.04	0	0	0	0	0	0
9/3/2024 12:15	28403	HART_T2	0	0	0	0	0	0	-0.64	-0.66	1	1	0	900	900	0
9/3/2024 12:15	46203	DANV_T2	4	3	-1	2.15	2.87	0.72	0	0	0	0	0	0	0	0
9/3/2024 12:15	46201	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/3/2024 12:16	45701	LIND_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/3/2024 12:16	45702	LIND_T2	5	4	-1	0.88	0.95	0.07	-1.63	-1.61	0	0	0	0	0	0
9/3/2024 12:17	12701	MACU_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
9/3/2024 12:21	12701	MACU_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
9/3/2024 12:21	56503	ROCK_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/3/2024 12:21	56504	ROCK_T2	1	1	0	0.7	0.7	0	-0.01	0.01	0	0	0	0	0	0
9/3/2024 12:21	63202	MGTN_T2	0	0	0	0	0	0	-1.14	-1.04	1	1	0	900	900	0
9/3/2024 12:21	67401	WAKE_T2	5	5	0	0.62	0.36	-0.26	-0.96	-0.96	0	0	0	0	0	0
9/3/2024 12:21	56501	ROCK_T2	5	7	2	0.36	0.44	0.08	0	0	0	0	0	0	0	0
9/3/2024 12:23	66903	SHIL_T2	1	1	0	1.6	1.6	0	-0.79	-0.78	0	0	0	0	0	0
9/3/2024 12:23	66902	SHIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/3/2024 12:23	67401	WAKE_T2	5	5	0	0.62	0.36	-0.26	0	0	0	0	0	0	0	0
9/3/2024 12:23	53802	MBRG_T2	0	0	0	0	0	0	2.09	2.1	0	0	0	0	0	0
9/3/2024 12:23	67402	WAKE_T2	0	0	0	0	0	0	0.6	0.61	1	1	0	600	600	0
9/3/2024 12:23	53801	MBRG_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/3/2024 12:23	64101	REFR_T1	1	1	0	0.6	0.2	-0.4	0.04	0.01	0	0	0	0	0	0
9/3/2024 12:24	43101	SMIL_T2	2	3	1	1.15	1	-0.15	-0.62	-0.61	0	0	0	0	0	0
9/3/2024 12:24	56503	ROCK_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/3/2024 12:24	43105	SMIL_T2	8	4	-4	0.38	0.53	0.15	0	0	0	0	0	0	0	0
9/3/2024 12:24	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/3/2024 12:24	43102	SMIL_T2	7	6	-1	0.54	0.75	0.21	-0.66	-0.68	1	1	0	600	600	0
9/3/2024 12:24	56501	ROCK_T2	5	7	2	0.36	0.44	0.08	0.19	0.21	0	0	0	0	0	0
9/3/2024 12:24	43104	SMIL_T2	3	2	-1	0.57	0.8	0.23	0	0	0	0	0	0	0	0
9/3/2024 12:24	56504	ROCK_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/3/2024 12:24	43103	SMIL_T2	22	22	0	0.74	0.75	0.01	0	0	0	0	0	0	0	0
9/3/2024 12:25	43101	SMIL_T2	2	3	1	1.15	1	-0.15	0	0	0	0	0	0	0	0
9/3/2024 12:25	43103	SMIL_T2	22	22	0	0.74	0.75	0.01	0	0	0	0	0	0	0	0
9/3/2024 12:25	43102	SMIL_T2	7	6	-1	0.54	0.75	0.21	0	0	0	0	0	0	0	0
9/3/2024 12:25	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	-0.72	-0.72	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/3/2024 12:25	43104	SMIL_T2	3	2	-1	0.57	0.8	0.23	0	0	0	0	0	0	0	0
9/3/2024 12:25	43105	SMIL_T2	8	4	-4	0.38	0.53	0.15	0	0	0	0	0	0	0	0
9/3/2024 12:26	56503	ROCK_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/3/2024 12:26	21701	SUBU_T1	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
9/3/2024 12:26	64101	REFR_T1	1	1	0	0.6	0.2	-0.4	0.04	0.01	0	0	0	0	0	0
9/3/2024 12:26	56504	ROCK_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/3/2024 12:26	21705	SUBU_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
9/3/2024 12:26	61504	EPET_T2	0	1	1	0	0.2	0.2	0.31	0.28	0	0	0	0	0	0
9/3/2024 12:26	61501	EPET_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
9/3/2024 12:26	21704	SUBU_T1	0	0	0	0	0	0	-2.15	-2.21	2	2	0	2400	2400	0
9/3/2024 12:26	56501	ROCK_T2	5	7	2	0.36	0.44	0.08	0.19	0.21	0	0	0	0	0	0
9/3/2024 12:27	62102	ELAN_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/3/2024 12:27	62105	ELAN_T1	3	2	-1	0.2	0.3	0.1	0.46	0.47	0	0	0	0	0	0
9/3/2024 12:27	64101	REFR_T1	1	1	0	0.6	0.2	-0.4	0.04	0.01	0	0	0	0	0	0
9/3/2024 12:27	66903	SHIL_T2	1	1	0	1.6	1.6	0	-0.79	-0.78	0	0	0	0	0	0
9/3/2024 12:27	66902	SHIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/3/2024 12:27	64902	MILL_T2	0	0	0	0	0	0	-0.47	-0.46	1	1	0	900	900	0
9/3/2024 12:28	62102	ELAN_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/3/2024 12:28	62105	ELAN_T1	3	2	-1	0.2	0.3	0.1	0.46	0.47	0	0	0	0	0	0
9/3/2024 12:29	47203	FAXO_T2	0	0	0	0	0	0	-1.46	-1.42	1	1	0	1200	1200	0
9/3/2024 12:30	63602	LETO_T1	1	1	0	0.8	0.8	0	-0.13	-0.1	0	0	0	0	0	0
9/3/2024 12:30	62607	ENGL_T1	0	0	0	0	0	0	-0.95	-0.98	1	1	0	300	300	0
9/3/2024 12:30	43108	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 12:30	43103	SMIL_T2	22	19	-3	0.75	0.61	-0.14	0	0	0	0	0	0	0	0
9/3/2024 12:30	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 12:30	43104	SMIL_T2	2	4	2	0.8	0.45	-0.35	-0.69	-0.69	1	1	0	300	300	0
9/3/2024 12:30	43105	SMIL_T2	3	4	1	0.67	0.55	-0.12	0	0	0	0	0	0	0	0
9/3/2024 12:30	43101	SMIL_T2	3	2	-1	1	1.15	0.15	0	0	0	0	0	0	0	0
9/3/2024 12:30	57003	WHHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/3/2024 12:30	43102	SMIL_T2	6	7	1	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
9/3/2024 12:30	40901	JESH_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 12:30	63601	LETO_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/3/2024 12:30	57002	WHHI_T2	0	0	0	0	0	0	0.12	0.19	0	0	0	0	0	0
9/3/2024 12:30	62601	ENGL_T1	1	0	-1	8.3	0	-8.3	0	0	0	0	0	0	0	0
9/3/2024 12:33	63602	LETO_T1	1	1	0	0.8	0.8	0	-0.13	-0.1	0	0	0	0	0	0
9/3/2024 12:33	63601	LETO_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/3/2024 12:33	40101	HUNT_T2	0	1	1	0	0	0	-0.12	-0.14	0	0	0	0	0	0
9/3/2024 12:34	63601	LETO_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/3/2024 12:34	63602	LETO_T1	1	1	0	0.8	0.8	0	-0.13	-0.1	0	0	0	0	0	0
9/3/2024 12:36	59301	MCAL_T1	5	0	-5	0.72	0.4	-0.32	-1.56	-1.55	1	1	0	600	600	0
9/3/2024 12:36	59302	MCAL_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/3/2024 12:37	42701	AUGU_T1	2	3	1	1	0.73	-0.27	0	0	2	2	0	1800	1800	0
9/3/2024 12:37	41902	REED_T1	1	1	0	0.8	0.8	0	1.19	1.19	0	0	0	0	0	0
9/3/2024 12:38	44802	EDAN_T2	3	1	-2	0.13	0.1	-0.03	-0.62	-0.6	0	0	0	0	0	0
9/3/2024 12:38	44801	EDAN_T2	134	132	-2	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
9/3/2024 12:39	55101	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 12:39	55105	WERT_T1	0	0	0	0	0	0	-0.27	-0.21	1	1	0	900	900	0
9/3/2024 12:40	13701	SCHN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/3/2024 12:40	13704	SCHN_T2	1	1	0	0.4	0.5	0.1	0.02	-0.18	0	0	0	0	0	0
9/3/2024 12:41	52402	GRPA_T2	66	11	-55	0.33	0.43	0.1	0	0	0	0	0	0	0	0
9/3/2024 12:41	52401	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/3/2024 12:41	66504	SMAN_T2	1	1	0	0.4	0.5	0.1	-0.13	-0.16	0	0	0	0	0	0
9/3/2024 12:41	52403	GRPA_T2	142	115	-27	1.22	1.21	-0.01	-0.06	-0.06	0	0	0	0	0	0
9/3/2024 12:41	11205	ELHE_T1	0	0	0	0	0	0	-0.47	-0.4	1	1	0	1200	1200	0
9/3/2024 12:41	66501	SMAN_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
9/3/2024 12:41	66502	SMAN_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
9/3/2024 12:42	66502	SMAN_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
9/3/2024 12:42	14204	EALL_T2	3	2	-1	0.23	0.2	-0.03	0.44	0.43	0	0	0	0	0	0
9/3/2024 12:42	66501	SMAN_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
9/3/2024 12:42	66504	SMAN_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/3/2024 12:43	29402	BELT_T1	6	7	1	1.72	1.51	-0.21	0	0	0	0	0	0	0	0
9/3/2024 12:43	45402	WBLO_T2	42	45	3	0.24	0.23	-0.01	-1.04	-1.05	1	1	0	900	900	0
9/3/2024 12:43	29401	BELT_T1	4	4	0	0.35	0.4	0.05	0	0	1	1	0	900	900	0
9/3/2024 12:45	45402	WBLO_T2	43	26	-17	0.23	0.23	0	-1.04	-1.05	1	1	0	900	900	0
9/3/2024 12:46	11101	EGYP_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/3/2024 12:46	11104	EGYP_T1	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
9/3/2024 12:47	11101	EGYP_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/3/2024 12:47	61701	ELIZ_T1	2	2	0	2.4	2.75	0.35	1.74	1.69	0	0	0	0	0	0
9/3/2024 12:47	55507	HERS_T1	0	0	0	0	0	0	0.84	0.83	0	0	0	0	0	0
9/3/2024 12:47	11104	EGYP_T1	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
9/3/2024 12:48	25402	LAHA_T2	1	1	0	0.4	0.5	0.1	-0.16	-0.14	0	0	0	0	0	0
9/3/2024 12:48	57401	SPAN_T1	6	4	-2	0.57	1.2	0.63	0.12	0.11	0	0	0	0	0	0
9/3/2024 12:48	57403	SPAN_T1	9	10	1	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
9/3/2024 12:49	64302	LINC_T2	0	0	0	0	0	0	1.14	1.2	0	0	0	0	0	0
9/3/2024 12:49	64304	LINC_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/3/2024 12:50	45402	WBLO_T2	43	26	-17	0.23	0.23	0	-1.04	-1.05	1	1	0	900	900	0
9/3/2024 12:50	57403	SPAN_T1	9	10	1	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
9/3/2024 12:50	57401	SPAN_T1	6	4	-2	0.57	1.2	0.63	0.12	0.11	0	0	0	0	0	0
9/3/2024 12:52	47401	PENS_T1	2	3	1	0.6	1.1	0.5	0.9	0.76	0	0	0	0	0	0
9/3/2024 12:52	47402	PENS_T1	1	2	1	0.3	0.85	0.55	0	0	0	0	0	0	0	0
9/3/2024 12:52	47403	PENS_T1	3	8	5	0.33	0.94	0.61	0	0	0	0	0	0	0	0
9/3/2024 12:53	64101	REFR_T1	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
9/3/2024 12:54	15703	TANN_T2	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
9/3/2024 12:54	57401	SPAN_T1	6	4	-2	0.57	1.2	0.63	0.11	0.14	0	0	0	0	0	0
9/3/2024 12:54	57403	SPAN_T1	9	10	1	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
9/3/2024 12:54	15702	TANN_T2	2	4	2	0.6	0.43	-0.17	-0.26	-0.27	0	0	0	0	0	0
9/3/2024 12:55	55405	SHER_T1	11	11	0	0.39	0.44	0.05	-0.17	-0.17	0	0	0	0	0	0
9/3/2024 12:56	64101	REFR_T1	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
9/3/2024 12:58	46401	FLEM_T2	7	7	0	1.03	1.06	0.03	-0.29	-0.26	0	0	0	0	0	0
9/3/2024 12:58	46402	FLEM_T2	9	6	-3	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/3/2024 12:59	67702	WERN_T2	3	2	-1	0.73	1.05	0.32	0.58	0.58	0	0	0	0	0	0
9/3/2024 12:59	67703	WERN_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
9/3/2024 13:00	46401	FLEM_T2	6	121	115	1.1	0.27	-0.83	0	0	0	0	0	0	0	0
9/3/2024 13:00	58705	ROSE_T2	6	7	1	2.3	2.35	0.05	0	0	0	0	0	0	0	0
9/3/2024 13:00	46402	FLEM_T2	6	33	27	0.3	0.53	0.23	0.09	0.06	0	0	0	0	0	0
9/3/2024 13:00	58701	ROSE_T2	0	1	1	0	0.1	0.1	-0.08	-0.07	1	1	0	600	600	0
9/3/2024 13:00	58706	ROSE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/3/2024 13:01	67502	WEWI_T2	3	16	13	0.4	0.48	0.08	0	0	0	0	0	0	0	0
9/3/2024 13:01	67703	WERN_T2	2	1	-1	0.55	0.8	0.25	0	0	0	0	0	0	0	0
9/3/2024 13:01	67503	WEWI_T2	1	2	1	8.3	4.3	-4	-0.05	0	0	0	0	0	0	0
9/3/2024 13:01	67702	WERN_T2	2	3	1	1	0.7	-0.3	0.58	0.58	0	0	0	0	0	0
9/3/2024 13:02	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 13:02	40901	JESH_T1	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
9/3/2024 13:03	44201	POIN_T1	0	0	0	0	0	0	-0.41	-0.25	2	2	0	2100	2100	0
9/3/2024 13:04	40101	HUNT_T2	0	1	1	0	0	0	-0.09	-0.09	0	0	0	0	0	0
9/3/2024 13:04	13503	MCMI_T2	3	3	0	0.57	0.73	0.16	0.02	-0.01	0	0	0	0	0	0
9/3/2024 13:06	57401	SPAN_T1	4	5	1	1.2	0.94	-0.26	0.11	0.14	0	0	0	0	0	0
9/3/2024 13:06	57403	SPAN_T1	9	8	-1	0.58	0.59	0.01	0	0	0	0	0	0	0	0
9/3/2024 13:08	59101	WALK_T2	2	2	0	0.85	0.65	-0.2	1.02	0.92	1	1	0	600	600	0
9/3/2024 13:08	64101	REFR_T1	0	2	2	0	0.1	0.1	0.04	0.05	0	0	0	0	0	0
9/3/2024 13:09	64101	REFR_T1	0	2	2	0	0.1	0.1	0.04	0.05	0	0	0	0	0	0
9/3/2024 13:10	47401	PENS_T1	2	3	1	1.25	1.23	-0.02	0.76	0.83	0	0	0	0	0	0
9/3/2024 13:10	46004	BERW_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/3/2024 13:10	64101	REFR_T1	0	2	2	0	0.1	0.1	0.04	0.05	0	0	0	0	0	0
9/3/2024 13:10	45601	WOOL_T1	1	2	1	0.4	0.75	0.35	-0.22	-0.22	1	1	0	1200	1200	0
9/3/2024 13:10	45602	WOOL_T1	2	8	6	0.4	0.54	0.14	0	0	0	0	0	0	0	0
9/3/2024 13:10	46002	BERW_T2	0	0	0	0	0	0	-0.49	-0.46	1	1	0	900	900	0
9/3/2024 13:10	47402	PENS_T1	2	3	1	0.85	0.53	-0.32	0	0	0	0	0	0	0	0
9/3/2024 13:10	47403	PENS_T1	8	6	-2	0.85	0.9	0.05	0	0	0	0	0	0	0	0
9/3/2024 13:11	64101	REFR_T1	0	2	2	0	0.1	0.1	0.07	0.11	0	0	0	0	0	0
9/3/2024 13:12	60701	BREC_T1	2	3	1	0.25	0.57	0.32	-0.73	-0.48	2	2	0	1200	1200	0
9/3/2024 13:12	46004	BERW_T2	1	1	0	0.2	0.2	0	0.18	0.17	0	0	0	0	0	0
9/3/2024 13:12	40201	BEGA_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
9/3/2024 13:13	66504	SMAN_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/3/2024 13:13	66502	SMAN_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
9/3/2024 13:13	60701	BREC_T1	2	3	1	0.25	0.57	0.32	0	0	0	0	0	0	0	0
9/3/2024 13:13	46005	BERW_T1	2	3	1	0.8	0.87	0.07	0	0	0	0	0	0	0	0
9/3/2024 13:13	66501	SMAN_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/3/2024 13:13	46001	BERW_T1	0	0	0	0	0	0	1.06	1.1	0	0	0	0	0	0
9/3/2024 13:14	40201	BEGA_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
9/3/2024 13:16	67505	WEWI_T1	0	1	1	0	0.2	0.2	-0.03	0.01	1	1	0	900	900	0
9/3/2024 13:16	46402	FLEM_T2	6	33	27	0.4	0.53	0.13	0.06	0.08	0	0	0	0	0	0
9/3/2024 13:16	67501	WEWI_T1	3	8	5	0.67	0.68	0.01	0	0	0	0	0	0	0	0
9/3/2024 13:16	46401	FLEM_T2	7	121	114	1.06	0.27	-0.79	0	0	0	0	0	0	0	0
9/3/2024 13:16	57505	LAWN_T3	0	0	0	0	0	0	0.68	0.72	0	0	0	0	0	0
9/3/2024 13:17	11901	ETEX_T2	0	1	1	0	0.1	0.1	0.42	0.43	0	0	0	0	0	0
9/3/2024 13:17	11904	ETEX_T2	1	1	0	2.4	2.2	-0.2	0	0	0	0	0	0	0	0
9/3/2024 13:17	63403	HONY_T2	0	0	0	0	0	0	-0.06	-0.08	1	1	0	600	600	0
9/3/2024 13:18	53903	HALI_T2	8	9	1	0.55	0.7	0.15	0	0	0	0	0	0	0	0
9/3/2024 13:18	53902	HALI_T2	3	4	1	2.3	1.83	-0.47	0	0	0	0	0	0	0	0
9/3/2024 13:18	53901	HALI_T2	4	7	3	0.6	0.51	-0.09	-1.16	-1.2	0	0	0	0	0	0
9/3/2024 13:19	53903	HALI_T2	8	9	1	0.55	0.7	0.15	0	0	0	0	0	0	0	0
9/3/2024 13:19	53901	HALI_T2	4	7	3	0.6	0.51	-0.09	-2.33	-2.4	0	0	0	0	0	0
9/3/2024 13:19	53902	HALI_T2	3	4	1	2.3	1.83	-0.47	0	0	0	0	0	0	0	0
9/3/2024 13:19	40601	PIGR_T1	14	12	-2	0.41	0.41	0	0	0	0	0	0	0	0	0
9/3/2024 13:19	40602	PIGR_T1	1	1	0	2.2	2	-0.2	0	0	0	0	0	0	0	0
9/3/2024 13:19	40603	PIGR_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/3/2024 13:20	65901	SAKR_T2	1	1	0	7.2	7.3	0.1	-0.19	-0.18	1	1	0	600	600	0
9/3/2024 13:20	65904	SAKR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/3/2024 13:20	40603	PIGR_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/3/2024 13:20	53901	HALI_T2	4	7	3	0.6	0.51	-0.09	-2.33	-2.4	0	0	0	0	0	0
9/3/2024 13:20	53903	HALI_T2	8	9	1	0.55	0.7	0.15	0	0	0	0	0	0	0	0
9/3/2024 13:20	40602	PIGR_T1	1	1	0	2.2	2	-0.2	0	0	0	0	0	0	0	0
9/3/2024 13:20	53902	HALI_T2	3	4	1	2.3	1.83	-0.47	0	0	0	0	0	0	0	0
9/3/2024 13:20	40601	PIGR_T1	14	12	-2	0.41	0.41	0	0	0	0	0	0	0	0	0
9/3/2024 13:21	14801	TREI_T2	3	3	0	0.67	0.67	0	0.61	0.61	0	0	0	0	0	0
9/3/2024 13:21	14802	TREI_T2	3	1	-2	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
9/3/2024 13:22	13704	SCHN_T2	1	1	0	0.4	0.5	0.1	-0.08	-0.02	0	0	0	0	0	0
9/3/2024 13:22	13701	SCHN_T2	4	5	1	0.28	0.22	-0.06	0	0	0	0	0	0	0	0
9/3/2024 13:23	43108	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/3/2024 13:23	40601	PIGR_T1	14	12	-2	0.41	0.41	0	-0.26	-0.31	0	0	0	0	0	0
9/3/2024 13:23	40602	PIGR_T1	1	1	0	2.2	2	-0.2	0	0	0	0	0	0	0	0
9/3/2024 13:23	40603	PIGR_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/3/2024 13:23	43103	SMIL_T2	25	20	-5	0.73	0.59	-0.14	0	0	0	0	0	0	0	0
9/3/2024 13:23	43104	SMIL_T2	5	5	0	0.54	0.58	0.04	0	0	0	0	0	0	0	0
9/3/2024 13:23	43106	SMIL_T2	0	0	0	0	0	0	-0.78	-0.82	2	2	0	2400	2400	0
9/3/2024 13:23	43105	SMIL_T2	8	7	-1	0.46	0.5	0.04	0	0	0	0	0	0	0	0
9/3/2024 13:23	43101	SMIL_T2	2	3	1	1.05	1	-0.05	0	0	0	0	0	0	0	0
9/3/2024 13:23	43102	SMIL_T2	9	9	0	0.64	0.7	0.06	0	0	0	0	0	0	0	0
9/3/2024 13:24	43102	SMIL_T2	9	9	0	0.64	0.7	0.06	-0.64	-0.64	1	1	0	600	600	0
9/3/2024 13:24	43105	SMIL_T2	8	7	-1	0.46	0.5	0.04	0	0	0	0	0	0	0	0
9/3/2024 13:24	43104	SMIL_T2	5	5	0	0.54	0.58	0.04	0	0	0	0	0	0	0	0
9/3/2024 13:24	40602	PIGR_T1	1	1	0	2.2	2	-0.2	0.51	0.51	2	2	0	1200	1200	0
9/3/2024 13:24	43103	SMIL_T2	25	20	-5	0.73	0.59	-0.14	0	0	0	0	0	0	0	0
9/3/2024 13:24	43101	SMIL_T2	2	3	1	1.05	1	-0.05	0	0	0	0	0	0	0	0
9/3/2024 13:24	40603	PIGR_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/3/2024 13:24	43108	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/3/2024 13:24	13704	SCHN_T2	1	1	0	0.4	0.5	0.1	-0.08	-0.02	0	0	0	0	0	0
9/3/2024 13:24	40601	PIGR_T1	14	12	-2	0.41	0.41	0	0	0	0	0	0	0	0	0
9/3/2024 13:24	13701	SCHN_T2	4	5	1	0.28	0.22	-0.06	0	0	0	0	0	0	0	0
9/3/2024 13:25	40201	BEGA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
9/3/2024 13:25	41902	REED_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
9/3/2024 13:25	41901	REED_T1	0	0	0	0	0	0	-1.31	-1.25	1	1	0	900	900	0
9/3/2024 13:26	49804	UNIV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/3/2024 13:26	49803	UNIV_T1	1	5	4	6.3	1.46	-4.84	-0.85	-2.05	0	0	0	0	0	0
9/3/2024 13:27	51304	WIND_T2	1	1	0	1.5	2.3	0.8	0	0	0	0	0	0	0	0
9/3/2024 13:27	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 13:27	62605	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 13:27	43504	WWIL_T1	0	1	1	0	0.3	0.3	0.74	0.74	0	0	0	0	0	0
9/3/2024 13:27	43505	WWIL_T1	1	1	0	1.8	2.5	0.7	0	0	0	0	0	0	0	0
9/3/2024 13:27	51306	WIND_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/3/2024 13:27	67503	WEWI_T2	1	2	1	8.2	4.35	-3.85	-0.03	0.09	0	0	0	0	0	0
9/3/2024 13:27	62604	ENGL_T1	0	0	0	0	0	0	-0.6	-0.5	1	1	0	600	600	0
9/3/2024 13:27	55105	WERT_T1	0	0	0	0	0	0	-0.24	-0.21	1	1	0	900	900	0
9/3/2024 13:27	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 13:27	62607	ENGL_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/3/2024 13:27	67502	WEWI_T2	3	17	14	0.8	0.52	-0.28	0	0	0	0	0	0	0	0
9/3/2024 13:28	62607	ENGL_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/3/2024 13:28	62605	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 13:28	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 13:28	62604	ENGL_T1	0	0	0	0	0	0	-1.19	-1	2	2	0	1200	1200	0
9/3/2024 13:29	67501	WEWI_T1	3	8	5	0.67	0.68	0.01	-0.77	-0.73	1	1	0	600	600	0
9/3/2024 13:29	67505	WEWI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 13:30	62602	ENGL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/3/2024 13:30	62605	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/3/2024 13:30	62607	ENGL_T1	2	1	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
9/3/2024 13:30	62604	ENGL_T1	0	0	0	0	0	0	-0.6	-0.5	1	1	0	600	600	0
9/3/2024 13:30	44802	EDAN_T2	0	1	1	0	0.3	0.3	-0.58	-0.54	0	0	0	0	0	0
9/3/2024 13:30	44801	EDAN_T2	113	153	40	0.39	0.62	0.23	0	0	0	0	0	0	0	0
9/3/2024 13:31	62602	ENGL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/3/2024 13:31	62607	ENGL_T1	2	1	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
9/3/2024 13:31	67502	WEWI_T2	16	15	-1	0.48	0.57	0.09	0.02	-0.06	0	0	0	0	0	0
9/3/2024 13:31	67503	WEWI_T2	2	2	0	4.3	4.35	0.05	0	0	0	0	0	0	0	0
9/3/2024 13:31	62604	ENGL_T1	0	0	0	0	0	0	-0.6	-0.5	1	1	0	600	600	0
9/3/2024 13:31	62605	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/3/2024 13:32	44802	EDAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/3/2024 13:32	44801	EDAN_T2	113	153	40	0.39	0.62	0.23	-1.5	-1.47	0	0	0	0	0	0
9/3/2024 13:32	54502	ENOL_T2	0	0	0	0	0	0	-1.1	-1.09	1	1	0	600	600	0
9/3/2024 13:32	54504	ENOL_T2	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
9/3/2024 13:32	54505	ENOL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/3/2024 13:32	46402	FLEM_T2	33	31	-2	0.53	0.37	-0.16	0.08	0.09	0	0	0	0	0	0
9/3/2024 13:32	46401	FLEM_T2	121	28	-93	0.27	0.47	0.2	-0.27	-0.22	0	0	0	0	0	0
9/3/2024 13:33	57004	WHHI_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
9/3/2024 13:33	46504	LOHA_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
9/3/2024 13:33	46503	LOHA_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/3/2024 13:33	52402	GRPA_T2	10	4	-6	0.31	0.15	-0.16	0	0	0	0	0	0	0	0
9/3/2024 13:33	45802	HEGI_T2	0	2	2	0	0.2	0.2	0.75	0.74	1	1	0	900	900	0
9/3/2024 13:33	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 13:33	52403	GRPA_T2	101	99	-2	0.9	0.89	-0.01	0	-0.02	0	0	0	0	0	0
9/3/2024 13:33	46506	LOHA_T1	3	4	1	5.4	3.95	-1.45	-0.09	-0.1	0	0	0	0	0	0
9/3/2024 13:33	57003	WHHI_T2	2	16	14	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/3/2024 13:34	44801	EDAN_T2	113	153	40	0.39	0.62	0.23	-1.5	-1.47	0	0	0	0	0	0
9/3/2024 13:34	44802	EDAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/3/2024 13:34	45802	HEGI_T2	0	2	2	0	0.2	0.2	0.75	0.74	1	1	0	900	900	0
9/3/2024 13:35	51202	MTON_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/3/2024 13:35	52501	PROG_T1	0	2	2	0	0.2	0.2	0.17	0.26	1	1	0	300	300	0
9/3/2024 13:35	51204	MTON_T2	0	0	0	0	0	0	-1.23	-1.24	2	2	0	1500	1500	0
9/3/2024 13:36	44203	POIN_T2	0	0	0	0	0	0	0.06	0.02	2	2	0	2100	2100	0
9/3/2024 13:37	42001	MNVL_T2	256	239	-17	0.8	0.6	-0.2	-0.13	-0.15	0	0	0	0	0	0
9/3/2024 13:37	65601	QVIL_T2	0	0	0	0	0	0	-0.81	-0.75	1	1	0	900	900	0
9/3/2024 13:37	42002	MNVL_T2	1	1	0	4	4.3	0.3	0	0	0	0	0	0	0	0
9/3/2024 13:38	13704	SCHN_T2	1	1	0	0.5	0.5	0	-0.02	0.01	0	0	0	0	0	0
9/3/2024 13:38	13701	SCHN_T2	5	2	-3	0.22	0.15	-0.07	0	0	0	0	0	0	0	0
9/3/2024 13:38	47402	PENS_T1	3	2	-1	0.53	0.35	-0.18	0	0	0	0	0	0	0	0
9/3/2024 13:38	47401	PENS_T1	3	2	-1	1.13	1.05	-0.08	1.56	1.54	0	0	0	0	0	0
9/3/2024 13:38	47403	PENS_T1	4	3	-1	1.13	0.87	-0.26	0	0	0	0	0	0	0	0
9/3/2024 13:39	47403	PENS_T1	4	3	-1	1.13	0.87	-0.26	0	0	0	0	0	0	0	0
9/3/2024 13:39	47402	PENS_T1	3	2	-1	0.53	0.35	-0.18	0	0	0	0	0	0	0	0
9/3/2024 13:39	47401	PENS_T1	3	2	-1	1.13	1.05	-0.08	0.78	0.77	0	0	0	0	0	0
9/3/2024 13:40	14401	SSLA_T1	4	4	0	0.28	0.38	0.1	0	0	0	0	0	0	0	0
9/3/2024 13:40	14404	SSLA_T1	5	4	-1	0.42	0.55	0.13	0.25	0.19	0	0	0	0	0	0
9/3/2024 13:40	14204	EALL_T2	4	4	0	0.43	0.33	-0.1	0.47	0.58	0	0	0	0	0	0
9/3/2024 13:40	14402	SSLA_T1	5	4	-1	0.58	0.68	0.1	0	0	0	0	0	0	0	0
9/3/2024 13:40	14403	SSLA_T1	2	3	1	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
9/3/2024 13:41	41602	CLEV_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/3/2024 13:42	53501	EVIL_T2	0	2	2	0	0.3	0.3	-0.01	-0.01	1	1	0	600	600	0
9/3/2024 13:42	21206	ECAR_T2	1	1	0	8	7.9	-0.1	0.27	0.3	0	0	0	0	0	0
9/3/2024 13:42	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 13:43	55101	WERT_T1	0	0	0	0	0	0	-0.97	-0.87	2	2	0	1500	1500	0
9/3/2024 13:43	67703	WERN_T2	1	1	0	0.8	0.8	0	-0.02	-0.03	1	1	0	900	900	0
9/3/2024 13:43	67702	WERN_T2	3	2	-1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
9/3/2024 13:43	44301	BEAV_T2	3	5	2	0.73	0.48	-0.25	0.28	0.54	1	1	0	600	600	0
9/3/2024 13:44	44301	BEAV_T2	3	5	2	0.73	0.48	-0.25	0	0	0	0	0	0	0	0
9/3/2024 13:44	53501	EVIL_T2	0	2	2	0	0.3	0.3	-0.01	-0.01	1	1	0	600	600	0
9/3/2024 13:45	56901	COCA_T1	1	1	0	0.6	0.4	-0.2	0.49	0.47	0	0	0	0	0	0
9/3/2024 13:46	10504	CRAC_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 13:46	44802	EDAN_T2	1	1	0	0.1	0.3	0.2	-0.54	-0.6	0	0	0	0	0	0
9/3/2024 13:46	44801	EDAN_T2	144	155	11	0.56	0.63	0.07	-1.47	-1.47	0	0	0	0	0	0
9/3/2024 13:46	10503	CRAC_T1	2	2	0	0.65	0.45	-0.2	-0.81	-0.8	0	0	0	0	0	0
9/3/2024 13:46	44301	BEAV_T2	5	3	-2	0.48	0.35	-0.13	0.28	0.54	1	1	0	600	600	0
9/3/2024 13:47	10503	CRAC_T1	2	2	0	0.65	0.45	-0.2	-0.81	-0.8	0	0	0	0	0	0
9/3/2024 13:47	10504	CRAC_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 13:49	63602	LETO_T1	1	1	0	0.8	0.6	-0.2	-0.16	-0.17	0	0	0	0	0	0
9/3/2024 13:49	51002	NHAR_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
9/3/2024 13:49	51004	NHAR_T1	2	1	-1	3.15	6.2	3.05	-1	-0.91	0	0	0	0	0	0
9/3/2024 13:50	24205	PROV_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 13:50	24201	PROV_T3	1	4	3	6.4	1.68	-4.72	-1.17	-1.12	1	1	0	1200	1200	0
9/3/2024 13:50	24204	PROV_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
9/3/2024 13:51	55001	NEWP_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
9/3/2024 13:51	55002	NEWP_T1	6	7	1	0.9	1.01	0.11	-0.16	-0.16	0	0	0	0	0	0
9/3/2024 13:52	53501	EVIL_T2	1	2	1	0.5	0.5	0	-0.01	-0.01	1	1	0	600	600	0
9/3/2024 13:53	10504	CRAC_T1	0	6	6	0	0	0	0	0.01	0	0	0	0	0	0
9/3/2024 13:53	10503	CRAC_T1	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
9/3/2024 13:54	13704	SCHN_T2	1	1	0	0.5	0.4	-0.1	0.01	0.13	0	0	0	0	0	0
9/3/2024 13:54	13701	SCHN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/3/2024 13:55	64101	REFR_T1	1	1	0	0.3	0.3	0	0.06	0.08	0	0	0	0	0	0
9/3/2024 13:56	47001	HUGH_T2	4	5	1	5.75	4.9	-0.85	0.04	0.02	0	0	0	0	0	0
9/3/2024 13:57	10805	CHHI_T2	1	1	0	7.6	8	0.4	-0.61	-1.02	2	2	0	1800	1800	0
9/3/2024 13:57	41602	CLEV_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/3/2024 13:57	47001	HUGH_T2	4	5	1	5.75	4.9	-0.85	0.04	0.02	0	0	0	0	0	0
9/3/2024 13:57	64101	REFR_T1	1	1	0	0.3	0.3	0	0.06	0.08	0	0	0	0	0	0
9/3/2024 13:58	43101	SMIL_T2	3	2	-1	0.9	1	0.1	-0.54	-0.51	0	0	0	0	0	0
9/3/2024 13:58	64101	REFR_T1	1	1	0	0.3	0.3	0	0.12	0.15	0	0	0	0	0	0
9/3/2024 13:58	43104	SMIL_T2	4	3	-1	0.48	0.47	-0.01	0	0	0	0	0	0	0	0
9/3/2024 13:58	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 13:58	43103	SMIL_T2	18	15	-3	0.58	0.51	-0.07	0	0	0	0	0	0	0	0
9/3/2024 13:58	43105	SMIL_T2	3	3	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
9/3/2024 13:58	43102	SMIL_T2	6	6	0	0.75	0.68	-0.07	0	0	0	0	0	0	0	0
9/3/2024 13:59	64101	REFR_T1	1	1	0	0.3	0.3	0	0.06	0.08	0	0	0	0	0	0
9/3/2024 14:00	67503	WEWI_T2	1	3	2	8.5	2.8	-5.7	0.1	0.09	0	0	0	0	0	0
9/3/2024 14:00	67501	WEWI_T1	8	5	-3	0.39	0.44	0.05	-0.77	-0.79	1	1	0	600	600	0
9/3/2024 14:00	53501	EVIL_T2	2	2	0	0.2	0.5	0.3	-0.01	-0.01	1	1	0	600	600	0
9/3/2024 14:00	63602	LETO_T1	1	1	0	0.6	0.5	-0.1	-0.17	-0.14	0	0	0	0	0	0
9/3/2024 14:00	67502	WEWI_T2	13	10	-3	0.53	0.91	0.38	0	0	0	0	0	0	0	0
9/3/2024 14:01	67505	WEWI_T1	0	0	0	0	0	0	0.07	0.02	1	1	0	900	900	0
9/3/2024 14:01	10805	CHHI_T2	1	1	0	8	8.1	0.1	-0.61	-1.02	2	2	0	1800	1800	0
9/3/2024 14:01	53501	EVIL_T2	2	2	0	0.2	0.5	0.3	-0.01	-0.01	1	1	0	600	600	0
9/3/2024 14:01	67501	WEWI_T1	8	5	-3	0.39	0.44	0.05	0	0	0	0	0	0	0	0
9/3/2024 14:06	65503	MOJO_T2	2	2	0	0.65	0.6	-0.05	-0.64	-0.63	1	1	0	900	900	0
9/3/2024 14:06	41902	REED_T1	1	1	0	0.3	0.4	0.1	1.27	1.23	0	0	0	0	0	0
9/3/2024 14:07	42902	MIDD_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
9/3/2024 14:07	60504	NMAN_T2	3	3	0	0.8	0.83	0.03	0	0	0	0	0	0	0	0
9/3/2024 14:07	42903	MIDD_T2	0	0	0	0	0	0	1.03	0.84	1	1	0	1200	1200	0
9/3/2024 14:08	55001	NEWP_T1	0	2	2	0	0.4	0.4	0.1	0.07	0	0	0	0	0	0
9/3/2024 14:08	55002	NEWP_T1	6	7	1	1.13	1.11	-0.02	0	0	0	0	0	0	0	0
9/3/2024 14:09	13704	SCHN_T2	1	1	0	0.4	0.4	0	0.13	0.13	0	0	0	0	0	0
9/3/2024 14:09	13701	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 14:09	41902	REED_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/3/2024 14:09	64101	REFR_T1	1	0	-1	0.3	0	-0.3	0.08	0.07	0	0	0	0	0	0
9/3/2024 14:09	41903	REED_T1	0	0	0	0	0	0	0.37	0.24	2	2	0	2400	2400	0
9/3/2024 14:11	49803	UNIV_T1	4	4	0	1.65	1.55	-0.1	-2.05	-2.03	0	0	0	0	0	0
9/3/2024 14:11	49804	UNIV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/3/2024 14:15	23202	HIRU_T2	4	6	2	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
9/3/2024 14:15	23203	HIRU_T2	2	2	0	0.25	0.35	0.1	0.16	0.16	0	0	0	0	0	0
9/3/2024 14:15	23201	HIRU_T2	3	7	4	0.37	0.26	-0.11	0	0	0	0	0	0	0	0
9/3/2024 14:20	52501	PROG_T1	1	2	1	0.1	0.2	0.1	0.16	0.22	1	1	0	300	300	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/3/2024 14:22	41902	REED_T1	1	1	0	0.4	0.2	-0.2	1.23	1.27	0	0	0	0	0	0
9/3/2024 14:24	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
9/3/2024 14:25	58202	NEWV_T1	0	0	0	0	0	0	0.87	0.89	0	0	0	0	0	0
9/3/2024 14:25	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
9/3/2024 14:26	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
9/3/2024 14:27	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
9/3/2024 14:28	44301	BEAV_T2	2	13	11	0.35	0.32	-0.03	-0.97	-0.57	3	3	0	1800	1800	0
9/3/2024 14:28	64101	REFR_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
9/3/2024 14:28	42802	SEU_T1	0	0	0	0	0	0	-0.84	-0.84	1	1	0	900	900	0
9/3/2024 14:28	44302	BEAV_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
9/3/2024 14:29	46401	FLEM_T2	28	81	53	0.44	0.25	-0.19	0	0	0	0	0	0	0	0
9/3/2024 14:29	46402	FLEM_T2	30	31	1	0.33	0.41	0.08	0.09	0.14	0	0	0	0	0	0
9/3/2024 14:30	67503	WEWI_T2	1	1	0	8.2	8.2	0	0.09	0.08	0	0	0	0	0	0
9/3/2024 14:30	44302	BEAV_T2	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
9/3/2024 14:30	44301	BEAV_T2	12	6	-6	0.33	0.23	-0.1	-0.32	-0.19	1	1	0	600	600	0
9/3/2024 14:30	67502	WEWI_T2	10	5	-5	0.83	0.64	-0.19	0	0	0	0	0	0	0	0
9/3/2024 14:31	63601	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 14:31	63602	LETO_T1	1	2	1	0.5	0.55	0.05	-0.1	-0.17	0	0	0	0	0	0
9/3/2024 14:37	44902	SCOT_T2	1	1	0	0.4	0.2	-0.2	-2.02	-0.75	0	0	0	0	0	0
9/3/2024 14:39	52501	PROG_T1	2	0	-2	0.2	0	-0.2	0.22	0.23	1	1	0	300	300	0
9/3/2024 14:40	42701	AUGU_T1	2	2	0	0.7	0.85	0.15	0	0	2	2	0	1800	1800	0
9/3/2024 14:42	42701	AUGU_T1	2	2	0	0.7	0.85	0.15	0	0	2	2	0	1800	1800	0
9/3/2024 14:43	44301	BEAV_T2	12	6	-6	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
9/3/2024 14:43	44302	BEAV_T2	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
9/3/2024 14:45	23201	HIRU_T2	6	2	-4	0.23	0.4	0.17	0	0	0	0	0	0	0	0
9/3/2024 14:45	23203	HIRU_T2	2	2	0	0.35	0.25	-0.1	0.17	0.17	0	0	0	0	0	0
9/3/2024 14:45	23202	HIRU_T2	4	2	-2	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
9/3/2024 14:46	53501	EVIL_T2	2	2	0	0.2	0.3	0.1	-0.01	-0.01	1	1	0	600	600	0
9/3/2024 14:47	47403	PENS_T1	8	12	4	0.83	0.67	-0.16	0	0	0	0	0	0	0	0
9/3/2024 14:47	47402	PENS_T1	2	2	0	1	0.65	-0.35	0	0	0	0	0	0	0	0
9/3/2024 14:47	47401	PENS_T1	3	3	0	0.97	0.83	-0.14	0.86	0.78	0	0	0	0	0	0
9/3/2024 14:48	46504	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 14:48	47403	PENS_T1	8	12	4	0.83	0.67	-0.16	0	0	0	0	0	0	0	0
9/3/2024 14:48	46503	LOHA_T1	1	0	-1	0.3	0	-0.3	-0.59	-0.58	0	0	0	0	0	0
9/3/2024 14:48	46501	LOHA_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/3/2024 14:48	46506	LOHA_T1	4	4	0	4.2	4.03	-0.17	0	0	0	0	0	0	0	0
9/3/2024 14:48	47402	PENS_T1	2	2	0	1	0.65	-0.35	0	0	0	0	0	0	0	0
9/3/2024 14:48	47401	PENS_T1	3	3	0	0.97	0.83	-0.14	0.86	0.78	0	0	0	0	0	0
9/3/2024 14:50	46506	LOHA_T1	4	4	0	4.2	4.03	-0.17	0	0	0	0	0	0	0	0
9/3/2024 14:50	46501	LOHA_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/3/2024 14:50	46503	LOHA_T1	1	0	-1	0.3	0	-0.3	-0.59	-0.58	0	0	0	0	0	0
9/3/2024 14:50	47402	PENS_T1	2	2	0	1	0.65	-0.35	0	0	0	0	0	0	0	0
9/3/2024 14:50	47403	PENS_T1	8	12	4	0.83	0.67	-0.16	0	0	0	0	0	0	0	0
9/3/2024 14:50	47401	PENS_T1	3	3	0	0.97	0.83	-0.14	0.86	0.78	0	0	0	0	0	0
9/3/2024 14:50	46504	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 14:51	53501	EVIL_T2	2	2	0	0.2	0.5	0.3	-0.01	-0.01	1	1	0	600	600	0
9/3/2024 14:53	55101	WERT_T1	0	1	1	0	0	0	-1.69	-1.76	3	3	0	2400	2400	0
9/3/2024 14:54	42201	SHEN_T2	2	2	0	0.65	0.55	-0.1	0.65	0.65	0	0	0	0	0	0
9/3/2024 14:55	45601	WOOL_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/3/2024 14:55	55101	WERT_T1	0	1	1	0	0	0	-1.69	-1.76	3	3	0	2400	2400	0
9/3/2024 14:55	45602	WOOL_T1	7	7	0	0.34	0.4	0.06	0.79	0.79	0	0	0	0	0	0
9/3/2024 14:57	55101	WERT_T1	0	1	1	0	0	0	-1.69	-1.76	3	3	0	2400	2400	0
9/3/2024 14:57	45602	WOOL_T1	7	7	0	0.34	0.4	0.06	0.79	0.79	0	0	0	0	0	0
9/3/2024 14:57	45601	WOOL_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/3/2024 14:58	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 14:58	55101	WERT_T1	0	1	1	0	0	0	-5.08	-5.28	9	9	0	7200	7200	0
9/3/2024 14:58	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 14:59	44301	BEAV_T2	6	3	-3	0.23	0.3	0.07	0	0	0	0	0	0	0	0
9/3/2024 14:59	55101	WERT_T1	0	1	1	0	0	0	-1.69	-1.76	3	3	0	2400	2400	0
9/3/2024 14:59	44302	BEAV_T2	3	2	-1	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
9/3/2024 14:59	53601	DALM_T2	1	1	0	0.9	1.1	0.2	-0.24	-0.29	1	1	0	900	900	0
9/3/2024 14:59	43402	BENT_T1	2	8	6	0.55	0.44	-0.11	-0.86	-0.88	2	2	0	1200	1200	0
9/3/2024 15:00	46206	DANV_T2	1	1	0	1.6	1.3	-0.3	0	0	0	0	0	0	0	0
9/3/2024 15:00	46205	DANV_T2	0	0	0	0	0	0	-0.52	-0.49	1	1	0	1200	1200	0
9/3/2024 15:00	46203	DANV_T2	3	1	-2	2.57	7.1	4.53	0	0	0	0	0	0	0	0
9/3/2024 15:03	20601	GRWO_T2	5	7	2	1.22	0	-1.22	1.28	1.1	0	0	0	0	0	0
9/3/2024 15:07	43802	SWIL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/3/2024 15:07	43801	SWIL_T1	1	2	1	5.6	2.95	-2.65	0	0	0	0	0	0	0	0
9/3/2024 15:10	67803	WLAN_T1	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
9/3/2024 15:10	67804	WLAN_T1	2	2	0	0.55	0.25	-0.3	0	0	0	0	0	0	0	0
9/3/2024 15:13	60101	COCA_T1	0	2	2	0	0.2	0.2	0.55	0.57	0	0	0	0	0	0
9/3/2024 15:15	29402	BELT_T1	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
9/3/2024 15:15	29401	BELT_T1	1	1	0	0.4	0.1	-0.3	0	0	1	1	0	900	900	0
9/3/2024 15:17	46101	MACI_T2	0	0	0	0	0	0	-0.08	-0.08	1	1	0	1200	1200	0
9/3/2024 15:19	47401	PENS_T1	3	3	0	0.83	0.73	-0.1	0.86	0.88	0	0	0	0	0	0
9/3/2024 15:19	47403	PENS_T1	11	5	-6	0.56	0.78	0.22	0	0	0	0	0	0	0	0
9/3/2024 15:19	47402	PENS_T1	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/3/2024 15:21	47401	PENS_T1	3	3	0	0.83	0.73	-0.1	0.88	0.77	0	0	0	0	0	0
9/3/2024 15:21	47403	PENS_T1	11	5	-6	0.56	0.78	0.22	0	0	0	0	0	0	0	0
9/3/2024 15:21	47402	PENS_T1	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/3/2024 15:22	53501	EVIL_T2	2	4	2	0.5	0.83	0.33	-0.01	-0.01	2	2	0	800	800	0
9/3/2024 15:24	45602	WOOL_T1	7	7	0	0.4	0.27	-0.13	0.76	0.78	0	0	0	0	0	0
9/3/2024 15:24	45601	WOOL_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/3/2024 15:26	45602	WOOL_T1	7	7	0	0.4	0.27	-0.13	1.53	1.56	0	0	0	0	0	0
9/3/2024 15:26	45601	WOOL_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/3/2024 15:27	67502	WEWI_T2	3	3	0	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
9/3/2024 15:27	67503	WEWI_T2	1	1	0	7.7	7.9	0.2	0.08	0.13	0	0	0	0	0	0
9/3/2024 15:27	45602	WOOL_T1	7	7	0	0.4	0.27	-0.13	0.76	0.78	0	0	0	0	0	0
9/3/2024 15:27	45601	WOOL_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/3/2024 15:28	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 15:31	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 15:35	52403	GRPA_T2	41	42	1	0.44	0.48	0.04	0.11	0.11	0	0	0	0	0	0
9/3/2024 15:35	52402	GRPA_T2	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0	0
9/3/2024 15:36	41902	REED_T1	0	0	0	0	0	0	1.22	1.24	0	0	0	0	0	0
9/3/2024 15:42	45602	WOOL_T1	6	5	-1	0.3	0.3	0	0.78	0.77	0	0	0	0	0	0
9/3/2024 15:42	45601	WOOL_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
9/3/2024 15:45	44301	BEAV_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/3/2024 15:45	62604	ENGL_T1	0	0	0	0	0	0	-0.61	-0.59	1	1	0	600	600	0
9/3/2024 15:48	48302	ORWI_T2	0	1	1	0	0.1	0.1	0.22	0.18	0	0	0	0	0	0
9/3/2024 15:52	41902	REED_T1	0	6	6	0	0	0	1.24	1.22	0	0	0	0	0	0
9/3/2024 15:56	66903	SHIL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
9/3/2024 15:56	66901	SHIL_T2	1	1	0	0.2	0.1	-0.1	-1.25	-1.3	1	1	0	1200	1200	0
9/3/2024 15:59	67503	WEWI_T2	1	1	0	7.9	7.7	-0.2	0.2	0.14	0	0	0	0	0	0
9/3/2024 15:59	67502	WEWI_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
9/3/2024 16:00	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 16:01	44301	BEAV_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/3/2024 16:03	12701	MACU_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
9/3/2024 16:06	52402	GRPA_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/3/2024 16:06	52403	GRPA_T2	42	2	-40	0.48	1.3	0.82	0.08	0.11	0	0	0	0	0	0
9/3/2024 16:09	60701	BREC_T1	0	0	0	0	0	0	-0.74	-0.77	4	4	0	2400	2400	0
9/3/2024 16:10	60701	BREC_T1	0	0	0	0	0	0	-0.37	-0.39	2	2	0	1200	1200	0
9/3/2024 16:10	64101	REFR_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
9/3/2024 16:12	60702	BREC_T1	0	0	0	0	0	0	-0.74	-0.77	4	4	0	2400	2400	0
9/3/2024 16:13	60701	BREC_T1	0	0	0	0	0	0	-0.37	-0.39	2	2	0	1200	1200	0
9/3/2024 16:14	10805	CHHI_T2	1	1	0	8.5	8.5	0	-0.65	-0.65	1	1	0	600	600	0
9/3/2024 16:15	29402	BELT_T1	1	1	0	7.9	7.6	-0.3	0	0	0	0	0	0	0	0
9/3/2024 16:15	45802	HEGI_T2	7	20	13	0.19	0.41	0.22	0.64	0.47	1	1	0	900	900	0
9/3/2024 16:15	67503	WEWI_T2	1	1	0	7.7	7.5	-0.2	0.14	0.12	0	0	0	0	0	0
9/3/2024 16:15	29401	BELT_T1	1	0	-1	0.4	0	-0.4	0	0	1	1	0	900	900	0
9/3/2024 16:16	25402	LAHA_T2	0	0	0	0	0	0	-0.41	-0.51	0	0	0	0	0	0
9/3/2024 16:17	10805	CHHI_T2	1	1	0	8.7	8.5	-0.2	-0.65	-0.65	1	1	0	600	600	0
9/3/2024 16:17	20603	GRWO_T2	0	0	0	0	0	0	-0.49	-0.52	1	1	0	900	900	0
9/3/2024 16:17	45802	HEGI_T2	7	20	13	0.19	0.41	0.22	0.64	0.47	1	1	0	900	900	0
9/3/2024 16:18	63501	HEID_TBX1-2	47	47	0	0.56	0.63	0.07	-2.05	-2.01	1	1	0	900	900	0
9/3/2024 16:18	20603	GRWO_T2	0	0	0	0	0	0	-0.49	-0.52	1	1	0	900	900	0
9/3/2024 16:19	28102	TWLA_T2	13	14	1	0.35	0.49	0.14	0.22	0.23	0	0	0	0	0	0
9/3/2024 16:21	58401	MORO_T1	1	0	-1	0.2	0	-0.2	-0.81	-0.82	1	1	0	600	600	0
9/3/2024 16:21	65802	RTWN_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
9/3/2024 16:23	58401	MORO_T1	1	0	-1	0.2	0	-0.2	-0.82	-0.82	1	1	0	600	600	0
9/3/2024 16:31	67503	WEWI_T2	1	1	0	7.5	7.3	-0.2	0.12	0.14	0	0	0	0	0	0
9/3/2024 16:35	42002	MNVL_T2	1	2	1	3	1.1	-1.9	-0.15	-0.49	0	0	0	0	0	0
9/3/2024 16:35	12701	MACU_T1	0	1	1	0	0	0	0.22	0.26	0	0	0	0	0	0
9/3/2024 16:35	42001	MNVL_T2	221	251	30	0.55	0.65	0.1	0	0	0	0	0	0	0	0
9/3/2024 16:38	55002	NEWP_T1	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
9/3/2024 16:38	55001	NEWP_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
9/3/2024 16:39	55002	NEWP_T1	3	0	-3	0.27	0	-0.27	0.14	0.12	0	0	0	0	0	0
9/3/2024 16:40	10602	BLGL_T2	1	1	0	0.1	0.2	0.1	0.38	0.38	0	0	0	0	0	0
9/3/2024 16:41	67503	WEWI_T2	1	1	0	7.5	7.3	-0.2	0.14	0.17	0	0	0	0	0	0
9/3/2024 16:42	45501	DERR_T2	1	1	0	0.4	0.5	0.1	1.12	1.24	4	4	0	3600	3600	0
9/3/2024 16:46	45501	DERR_T2	1	3	2	0.5	0.4	-0.1	0.56	0.62	2	2	0	1800	1800	0
9/3/2024 16:50	12701	MACU_T1	1	0	-1	0.2	0	-0.2	0.26	0.23	0	0	0	0	0	0
9/3/2024 16:55	55002	NEWP_T1	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
9/3/2024 16:59	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
9/3/2024 16:59	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 17:03	45802	HEGI_T2	28	42	14	0.58	0.88	0.3	0.06	-0.23	1	1	0	900	900	0
9/3/2024 17:04	45802	HEGI_T2	28	42	14	0.58	0.88	0.3	0.06	-0.23	1	1	0	900	900	0
9/3/2024 17:05	15601	NSTR_T2	3	3	0	0.23	0.47	0.24	0	0	0	0	0	0	0	0
9/3/2024 17:05	44201	POIN_T1	0	0	0	0	0	0	-1.23	-1.19	2	2	0	2100	2100	0
9/3/2024 17:05	15603	NSTR_T2	0	0	0	0	0	0	-0.24	-0.21	0	0	0	0	0	0
9/3/2024 17:10	12606	MACA_T1	0	0	0	0	0	0	-0.04	-0.03	1	1	0	900	900	0
9/3/2024 17:10	55001	NEWP_T1	0	0	0	0	0	0	0.3	0.15	0	0	0	0	0	0
9/3/2024 17:10	55002	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 17:10	67805	WLAN_T1	0	0	0	0	0	0	-1.13	-1.14	0	0	0	0	0	0
9/3/2024 17:12	22002	BOHE_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
9/3/2024 17:14	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 17:14	22003	BOHE_T1	0	0	0	0	0	0	-0.2	-1.13	0	0	0	0	0	0
9/3/2024 17:21	55002	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 17:21	55001	NEWP_T1	0	0	0	0	0	0	0.3	0.15	0	0	0	0	0	0
9/3/2024 17:24	60701	BREC_T1	0	0	0	0	0	0	-0.36	-0.42	2	2	0	1200	1200	0
9/3/2024 17:24	59202	THOM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/3/2024 17:25	60701	BREC_T1	0	0	0	0	0	0	-0.36	-0.42	2	2	0	1200	1200	0
9/3/2024 17:26	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 17:28	60701	BREC_T1	0	0	0	0	0	0	-0.36	-0.42	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/3/2024 17:29	60701	BREC_T1	0	0	0	0	0	0	-0.73	-0.85	4	4	0	2400	2400	0
9/3/2024 17:30	23502	GEOR_T1	0	0	0	0	0	0	-1.09	-1.13	1	1	0	1200	1200	0
9/3/2024 17:36	66701	STRA_T1	0	0	0	0	0	0	0.22	0.14	0	1	1	0	600	600
9/3/2024 17:38	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 17:40	66701	STRA_T1	0	0	0	0	0	0	0.22	0.14	1	1	0	600	600	0
9/3/2024 17:40	20201	JERM_T1	0	0	0	0	0	0	-0.44	-0.43	2	2	0	2400	2400	0
9/3/2024 17:41	60701	BREC_T1	0	0	0	0	0	0	-0.42	-0.23	2	1	-1	1200	600	-600
9/3/2024 17:42	60701	BREC_T1	0	0	0	0	0	0	-0.42	-0.23	2	1	-1	1200	600	-600
9/3/2024 17:44	60701	BREC_T1	0	0	0	0	0	0	-0.42	-0.23	2	1	-1	1200	600	-600
9/3/2024 17:45	60701	BREC_T1	0	0	0	0	0	0	-0.85	-0.46	4	2	-2	2400	1200	-1200
9/3/2024 17:46	46506	LOHA_T1	3	3	0	5.03	4.9	-0.13	0	0	0	0	0	0	0	0
9/3/2024 17:46	46501	LOHA_T1	0	1	1	0	0	0	0.23	0.22	1	1	0	1200	1200	0
9/3/2024 17:53	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 17:53	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.16	-0.17	0	0	0	0	0	0
9/3/2024 17:54	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 18:01	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 18:01	46102	MACI_T1	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
9/3/2024 18:01	46801	HEPB_T2	4	10	6	0.5	0.28	-0.22	0.84	0.86	0	0	0	0	0	0
9/3/2024 18:02	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
9/3/2024 18:04	65502	MOJO_T2	0	0	0	0	0	0	-1.08	-1.04	1	1	0	900	900	0
9/3/2024 18:10	14801	TREI_T2	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
9/3/2024 18:14	10602	BLGL_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
9/3/2024 18:15	40902	JESH_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
9/3/2024 18:15	40901	JESH_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/3/2024 18:19	46903	MNTG_T2	3	4	1	0.17	0.1	-0.07	-0.09	-0.08	1	1	0	600	600	0
9/3/2024 18:20	46903	MNTG_T2	3	4	1	0.17	0.1	-0.07	-0.09	-0.08	1	1	0	600	600	0
9/3/2024 18:20	46901	MNTG_T2	0	0	0	0	0	0	1.57	1.6	0	0	0	0	0	0
9/3/2024 18:21	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 18:21	40802	EXCH_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
9/3/2024 18:23	51303	WIND_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
9/3/2024 18:24	15203	SFAR_T2	0	0	0	0	0	0	-0.88	-0.91	0	0	0	0	0	0
9/3/2024 18:25	51303	WIND_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
9/3/2024 18:25	15203	SFAR_T2	0	0	0	0	0	0	-1.76	-1.83	0	0	0	0	0	0
9/3/2024 18:28	51303	WIND_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
9/3/2024 18:40	12006	HATF_T1	0	0	0	0	0	0	0.5	0.43	1	1	0	1200	1200	0
9/3/2024 18:41	43302	WATS_T2	4	4	0	0.98	1.25	0.27	0	0	0	0	0	0	0	0
9/3/2024 18:41	43301	WATS_T2	0	6	6	0	0.12	0.12	-0.43	0.48	1	0	-1	900	0	-900
9/3/2024 18:41	43304	WATS_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
9/3/2024 18:46	47401	PENS_T1	0	0	0	0	0	0	-0.49	0.7	0	0	0	0	0	0
9/3/2024 18:46	47403	PENS_T1	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
9/3/2024 18:49	12603	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 18:49	12606	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 18:49	12601	MACA_T1	0	0	0	0	0	0	0.97	0.92	0	0	0	0	0	0
9/3/2024 18:49	46602	LACR_T1	0	0	0	0	0	0	-0.82	-0.86	0	0	0	0	0	0
9/3/2024 18:54	51301	WIND_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
9/3/2024 18:56	51301	WIND_T1	0	0	0	0	0	0	-0.14	-0.11	0	0	0	0	0	0
9/3/2024 19:03	44301	BEAV_T2	0	0	0	0	0	0	-0.67	-0.62	1	1	0	600	600	0
9/3/2024 19:04	13702	SCHN_T1	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
9/3/2024 19:05	46504	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 19:05	46501	LOHA_T1	0	0	0	0	0	0	0.17	0.21	1	1	0	1200	1200	0
9/3/2024 19:05	46506	LOHA_T1	3	3	0	4.47	5	0.53	0	0	0	0	0	0	0	0
9/3/2024 19:06	47802	MOCA_T2	0	0	0	0	0	0	-0.86	-0.89	0	0	0	0	0	0
9/3/2024 19:06	57004	WHHI_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
9/3/2024 19:06	57006	WHHI_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
9/3/2024 19:08	21705	SUBU_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
9/3/2024 19:08	21704	SUBU_T1	0	0	0	0	0	0	-2.35	-2.37	2	2	0	2400	2400	0
9/3/2024 19:08	65003	NEFF_T2	0	12	12	0	0.16	0.16	-1.82	-1.97	2	2	0	1800	1800	0
9/3/2024 19:08	21701	SUBU_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
9/3/2024 19:08	21702	SUBU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 19:11	66505	SMAN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 19:11	66504	SMAN_T2	0	0	0	0	0	0	-1.28	-1.36	1	1	0	1200	1200	0
9/3/2024 19:27	55101	WERT_T1	0	0	0	0	0	0	-1.86	-0.96	3	2	-1	2400	1500	-900
9/3/2024 20:06	67702	WERN_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
9/3/2024 20:11	14403	SSLA_T1	0	0	0	0	0	0	0.8	0.77	0	0	0	0	0	0
9/3/2024 20:11	14401	SSLA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/3/2024 20:11	14402	SSLA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 20:33	52004	LING_T2	2	2	0	6.05	6.05	0	0.26	0.36	0	0	0	0	0	0
9/3/2024 20:33	52002	LING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/3/2024 20:33	52006	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 20:37	54205	PENN_T1	140	76	-64	0.26	0.12	-0.14	0	0	0	0	0	0	0	0
9/3/2024 20:37	54203	PENN_T1	216	108	-108	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
9/3/2024 20:37	54201	PENN_T1	278	197	-81	0.45	0.4	-0.05	-0.83	-0.84	0	0	0	0	0	0
9/3/2024 20:38	54206	PENN_T2	5	34	29	0.1	0.12	0.02	0	0	0	0	0	0	0	0
9/3/2024 20:38	54202	PENN_T2	0	0	0	0	0	0	-0.12	-0.22	0	0	0	0	0	0
9/3/2024 20:38	54204	PENN_T2	2	3	1	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/3/2024 20:40	57101	SPHI_T2	6	6	0	0.5	1.07	0.57	0	0	0	0	0	0	0	0
9/3/2024 20:40	57106	SPHI_T2	3	3	0	1.17	1.53	0.36	0	0	0	0	0	0	0	0
9/3/2024 20:40	57104	SPHI_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
9/3/2024 20:43	57104	SPHI_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
9/3/2024 20:43	57106	SPHI_T2	3	3	0	1.17	1.53	0.36	0	0	0	0	0	0	0	0
9/3/2024 20:43	57101	SPHI_T2	6	6	0	0.5	1.07	0.57	0	0	0	0	0	0	0	0
9/3/2024 21:03	57401	SPAN_T1	71	132	61	0.21	0.2	-0.01	-0.71	-0.78	1	1	0	600	600	0
9/3/2024 21:03	57403	SPAN_T1	36	53	17	0.23	0.3	0.07	0	0	0	0	0	0	0	0
9/3/2024 21:06	46301	ROHR_T1	1	2	1	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
9/3/2024 21:06	46302	ROHR_T1	4	4	0	1.13	1.5	0.37	0.16	0.16	0	0	0	0	0	0
9/3/2024 21:07	57106	SPHI_T2	3	3	0	1.53	1.8	0.27	0	0	0	0	0	0	0	0
9/3/2024 21:07	57104	SPHI_T2	0	0	0	0	0	0	-0.93	-0.97	0	0	0	0	0	0
9/3/2024 21:07	57101	SPHI_T2	6	6	0	0.83	1.15	0.32	0	0	0	0	0	0	0	0
9/3/2024 21:09	46302	ROHR_T1	4	4	0	1.13	1.5	0.37	0	0	0	0	0	0	0	0
9/3/2024 21:09	46301	ROHR_T1	1	2	1	6.3	6.2	-0.1	0.18	0.17	0	0	0	0	0	0
9/3/2024 21:14	44802	EDAN_T2	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
9/3/2024 21:14	44801	EDAN_T2	189	212	23	0.5	0.49	-0.01	0	0	0	0	0	0	0	0
9/3/2024 21:16	62604	ENGL_T1	0	0	0	0	0	0	-0.88	-0.85	1	1	0	600	600	0
9/3/2024 21:21	63501	HEID_TBK1-2	48	48	0	0.5	0.43	-0.07	0.47	0.37	0	0	0	0	0	0
9/3/2024 21:27	15603	NSTR_T2	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
9/3/2024 21:27	15703	TANN_T2	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
9/3/2024 21:27	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
9/3/2024 21:27	15601	NSTR_T2	3	3	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:28	23102	MOSC_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
9/3/2024 21:28	22002	BOHE_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
9/3/2024 21:29	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
9/3/2024 21:29	10602	BLGL_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
9/3/2024 21:29	63602	LETO_T1	0	0	0	0	0	0	-0.34	-0.28	0	0	0	0	0	0
9/3/2024 21:29	48302	ORWI_T2	2	2	0	0.45	0.75	0.3	-0.03	-0.07	0	0	0	0	0	0
9/3/2024 21:29	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:30	23202	HIRU_T2	5	0	-5	0.1	0	-0.1	0.1	0.09	0	0	0	0	0	0
9/3/2024 21:30	52002	LING_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/3/2024 21:30	67502	WEWI_T2	0	34	34	0	0.13	0.13	-0.39	-0.37	0	0	0	0	0	0
9/3/2024 21:30	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:30	23203	HIRU_T2	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
9/3/2024 21:30	67503	WEWI_T2	1	1	0	8.5	9	0.5	-0.02	-0.19	0	0	0	0	0	0
9/3/2024 21:30	65001	NEFF_T2	3	36	33	0.1	0.12	0.02	-0.82	-0.89	1	1	0	1200	1200	0
9/3/2024 21:30	15203	SFAR_T2	50	116	66	0.13	0.19	0.06	-1.17	-1.2	0	0	0	0	0	0
9/3/2024 21:30	52006	LING_T2	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:30	52004	LING_T2	2	2	0	6.2	6.45	0.25	0.35	0.14	0	0	0	0	0	0
9/3/2024 21:30	23201	HIRU_T2	10	0	-10	0.12	0	-0.12	0	0	0	0	0	0	0	0
9/3/2024 21:31	47403	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:31	45901	AUBU_T1	74	168	94	0.28	0.38	0.1	0.32	0.31	0	0	0	0	0	0
9/3/2024 21:31	47401	PENS_T1	0	12	12	0	0.1	0.1	0.45	0.47	0	0	0	0	0	0
9/3/2024 21:31	63403	HONY_T2	0	0	0	0	0	0	-0.58	-0.59	1	1	0	600	600	0
9/3/2024 21:31	64902	MILL_T2	0	0	0	0	0	0	-0.51	-0.56	1	1	0	900	900	0
9/3/2024 21:31	26401	INOR_T1	1	1	0	8.2	8.6	0.4	0	0	0	0	0	0	0	0
9/3/2024 21:31	51002	NHAR_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
9/3/2024 21:31	45902	AUBU_T1	52	409	357	0.21	0.29	0.08	0	0	0	0	0	0	0	0
9/3/2024 21:31	60701	BREC_T1	2	0	-2	0.1	0	-0.1	-0.5	-0.47	1	1	0	600	600	0
9/3/2024 21:31	26402	INOR_T1	0	0	0	0	0	0	-1.94	-1.95	1	1	0	600	600	0
9/3/2024 21:31	63402	HONY_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/3/2024 21:31	51004	NHAR_T1	1	1	0	5.7	5.8	0.1	-0.03	-0.01	0	0	0	0	0	0
9/3/2024 21:31	16402	MOPO_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
9/3/2024 21:32	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
9/3/2024 21:32	57403	SPAN_T1	18	71	53	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
9/3/2024 21:32	66903	SHIL_T2	0	0	0	0	0	0	-0.86	-0.89	0	0	0	0	0	0
9/3/2024 21:32	61501	EPET_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
9/3/2024 21:32	12606	MACA_T1	0	0	0	0	0	0	-0.18	-0.25	1	1	0	900	900	0
9/3/2024 21:32	62604	ENGL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:32	25402	LAHA_T2	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
9/3/2024 21:32	57401	SPAN_T1	88	333	245	0.19	0.37	0.18	-0.81	-1.1	1	1	0	600	600	0
9/3/2024 21:32	62607	ENGL_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	300	300	0
9/3/2024 21:32	66701	STRA_T1	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
9/3/2024 21:32	64801	MONE_T2	1	22	21	0.3	0.18	-0.12	0.29	0.27	0	0	0	0	0	0
9/3/2024 21:32	66703	STRA_T1	4	125	121	0.43	0.32	-0.11	0	0	0	0	0	0	0	0
9/3/2024 21:32	64802	MONE_T2	3	71	68	0.1	0.25	0.15	0	0	0	0	0	0	0	0
9/3/2024 21:32	61504	EPET_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
9/3/2024 21:32	66901	SHIL_T2	63	138	75	0.12	0.19	0.07	0	0	0	0	0	0	0	0
9/3/2024 21:32	67605	WARW_T1	23	22	-1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
9/3/2024 21:33	65001	NEFF_T2	3	36	33	0.1	0.12	0.02	0	0	0	0	0	0	0	0
9/3/2024 21:33	67605	WARW_T1	23	22	-1	0.55	0.5	-0.05	-1.14	-1.17	0	0	0	0	0	0
9/3/2024 21:33	29402	BELT_T1	1	1	0	8.5	8.2	-0.3	0	0	0	0	0	0	0	0
9/3/2024 21:33	29401	BELT_T1	75	27	-48	0.29	0.17	-0.12	0	0	0	0	0	0	0	0
9/3/2024 21:33	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:33	65004	NEFF_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
9/3/2024 21:33	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.47	0	0	0	0	0	0
9/3/2024 21:33	28702	HAML_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
9/3/2024 21:33	66505	SMAN_T2	3	3	0	0.3	0.43	0.13	0	0	0	0	0	0	0	0
9/3/2024 21:33	66504	SMAN_T2	0	0	0	0	0	0	-0.62	-0.55	0	0	0	0	0	0
9/3/2024 21:33	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:33	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/3/2024 21:33	46802	HEPB_T1	1	1	0	1.2	1.2	0	-0.2	-0.2	0	0	0	0	0	0
9/3/2024 21:33	28703	HAML_T2	3	2	-1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
9/3/2024 21:33	28704	HAML_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/3/2024 21:34	66703	STRA_T1	4	125	121	0.43	0.32	-0.11	-0.3	-0.31	0	0	0	0	0	0
9/3/2024 21:34	53903	HALI_T2	2	2	0	1.5	1.75	0.25	0	0	0	0	0	0	0	0
9/3/2024 21:34	46002	BERW_T2	0	0	0	0	0	0	-1.03	-1.03	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/3/2024 21:34	62103	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:34	67002	STHI_T2	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
9/3/2024 21:34	43301	WATS_T2	1	1	0	0.2	0.4	0.2	0.39	0.36	0	0	0	0	0	0
9/3/2024 21:34	16102	BING_T2	21	25	4	0.64	0.64	0	0	0	0	0	0	0	0	0
9/3/2024 21:34	42701	AUGU_T1	1	1	0	1.1	1.5	0.4	0	0	2	2	0	1800	1800	0
9/3/2024 21:34	53901	HALI_T2	5	5	0	0.56	0.64	0.08	-1.29	-1.3	0	0	0	0	0	0
9/3/2024 21:34	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:34	45901	AUBU_T1	74	168	94	0.28	0.38	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:34	62604	ENGL_T1	0	3	3	0	0.1	0.1	-0.85	-0.98	1	1	0	600	600	0
9/3/2024 21:34	60701	BREC_T1	2	0	-2	0.1	0	-0.1	-0.99	-0.95	2	2	0	1200	1200	0
9/3/2024 21:34	45902	AUBU_T1	52	409	357	0.21	0.29	0.08	-0.45	-0.49	0	0	0	0	0	0
9/3/2024 21:34	62105	ELAN_T1	0	25	25	0	0.1	0.1	0.52	0.51	0	0	0	0	0	0
9/3/2024 21:34	53902	HALI_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:34	62106	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:34	16101	BING_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
9/3/2024 21:34	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:34	64503	LAVI_T1	0	0	0	0	0	0	-0.4	-0.52	1	1	0	1200	1200	0
9/3/2024 21:34	64302	LINC_T2	0	0	0	0	0	0	1.02	1.02	0	0	0	0	0	0
9/3/2024 21:34	43302	WATS_T2	4	4	0	0.45	0.93	0.48	0	0	0	0	0	0	0	0
9/3/2024 21:35	60101	COCA_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
9/3/2024 21:35	48301	ORWI_T1	2	2	0	5.5	5.75	0.25	-0.44	-0.49	1	1	0	900	900	0
9/3/2024 21:35	29402	BELT_T1	1	1	0	8.5	8.2	-0.3	0	0	0	0	0	0	0	0
9/3/2024 21:35	29401	BELT_T1	75	27	-48	0.29	0.17	-0.12	0	0	0	0	0	0	0	0
9/3/2024 21:35	67502	WEWI_T2	0	34	34	0	0.13	0.13	-0.39	-0.37	0	0	0	0	0	0
9/3/2024 21:35	40802	EXCH_T2	0	1	1	0	0.1	0.1	-0.24	-0.25	0	0	0	0	0	0
9/3/2024 21:35	42903	MIDD_T2	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0	0
9/3/2024 21:35	65802	RTWN_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
9/3/2024 21:35	42902	MIDD_T2	0	0	0	0	0	0	-0.25	-0.31	0	0	0	0	0	0
9/3/2024 21:35	60701	BREC_T1	2	0	-2	0.1	0	-0.1	-0.5	-0.47	1	1	0	600	600	0
9/3/2024 21:35	53501	EVIL_T2	1	2	1	0.8	0.65	-0.15	-0.01	-0.01	1	1	0	600	600	0
9/3/2024 21:35	40801	EXCH_T2	3	3	0	0.2	0.23	0.03	0	0	0	0	0	0	0	0
9/3/2024 21:35	67503	WEWI_T2	1	1	0	8.5	9	0.5	0	0	0	0	0	0	0	0
9/3/2024 21:35	66901	SHIL_T2	63	138	75	0.12	0.19	0.07	-1.54	-1.62	1	1	0	1200	1200	0
9/3/2024 21:35	16402	MOPO_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
9/3/2024 21:36	61501	EPET_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
9/3/2024 21:36	43801	SWIL_T1	4	11	7	1.7	0.8	-0.9	0	0	0	0	0	0	0	0
9/3/2024 21:36	57401	SPAN_T1	88	333	245	0.19	0.37	0.18	-0.81	-1.1	1	1	0	600	600	0
9/3/2024 21:36	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:36	67502	WEWI_T2	0	34	34	0	0.13	0.13	-0.37	-0.39	0	0	0	0	0	0
9/3/2024 21:36	23202	HIRU_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/3/2024 21:36	66505	SMAN_T2	3	3	0	0.3	0.43	0.13	0	0	0	0	0	0	0	0
9/3/2024 21:36	22003	BOHE_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
9/3/2024 21:36	25503	MADI_T1	116	136	20	0.43	0.47	0.04	-0.98	-1	0	0	0	0	0	0
9/3/2024 21:36	66504	SMAN_T2	0	0	0	0	0	0	-0.27	-0.36	0	0	0	0	0	0
9/3/2024 21:36	43802	SWIL_T1	0	0	0	0	0	0	-0.1	-0.12	1	1	0	600	600	0
9/3/2024 21:36	62604	ENGL_T1	0	3	3	0	0.1	0.1	-1.96	-1.68	2	2	0	1200	1200	0
9/3/2024 21:36	25501	MADI_T1	3	3	0	1.43	0.77	-0.66	0	0	0	0	0	0	0	0
9/3/2024 21:36	23203	HIRU_T2	4	0	-4	0.13	0	-0.13	-0.04	-0.01	0	0	0	0	0	0
9/3/2024 21:36	40101	HUNT_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
9/3/2024 21:36	67503	WEWI_T2	1	1	0	8.5	9	0.5	0	0	0	0	0	0	0	0
9/3/2024 21:36	49803	UNIV_T1	1	1	0	6	5.8	-0.2	-1.06	-1.03	0	0	0	0	0	0
9/3/2024 21:36	59202	THOM_T1	26	81	55	0.18	0.18	0	0	0	0	0	0	0	0	0
9/3/2024 21:36	63404	HONY_T1	17	4	-13	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
9/3/2024 21:36	11507	FREE_T2	0	0	0	0	0	0	0.78	0.86	0	0	0	0	0	0
9/3/2024 21:36	59201	THOM_T1	7	12	5	0.2	0.24	0.04	0	0	0	0	0	0	0	0
9/3/2024 21:36	23201	HIRU_T2	10	0	-10	0.12	0	-0.12	0	0	0	0	0	0	0	0
9/3/2024 21:36	61506	EPET_T2	0	0	0	0	0	0	-0.82	-0.88	1	1	0	900	900	0
9/3/2024 21:36	49804	UNIV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/3/2024 21:36	63401	HONY_T1	0	0	0	0	0	0	-0.5	-0.5	1	1	0	600	600	0
9/3/2024 21:36	60701	BREC_T1	2	0	-2	0.1	0	-0.1	-0.47	-0.55	1	1	0	600	600	0
9/3/2024 21:36	11901	ETEX_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
9/3/2024 21:36	67605	WARW_T1	23	22	-1	0.55	0.5	-0.05	-1.17	-1.2	0	0	0	0	0	0
9/3/2024 21:36	57403	SPAN_T1	18	71	53	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
9/3/2024 21:37	45901	AUBU_T1	74	168	94	0.28	0.38	0.1	0.31	0.3	0	0	0	0	0	0
9/3/2024 21:37	46501	LOHA_T1	0	0	0	0	0	0	0.32	0.33	1	1	0	1200	1200	0
9/3/2024 21:37	53902	HALI_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:37	57401	SPAN_T1	88	333	245	0.19	0.37	0.18	-1.1	-0.38	1	0	-1	600	0	-600
9/3/2024 21:37	53901	HALI_T2	5	5	0	0.56	0.64	0.08	-1.3	-1.32	0	0	0	0	0	0
9/3/2024 21:37	67503	WEWI_T2	1	1	0	8.5	9	0.5	-0.19	-0.22	0	0	0	0	0	0
9/3/2024 21:37	46506	LOHA_T1	3	4	1	6.03	4.55	-1.48	0	0	0	0	0	0	0	0
9/3/2024 21:37	24204	PROV_T3	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
9/3/2024 21:37	59202	THOM_T1	26	81	55	0.18	0.18	0	0	0	0	0	0	0	0	0
9/3/2024 21:37	63501	HEID_TBK1-2	48	48	0	0.7	0.38	-0.32	0.37	0.45	0	0	0	0	0	0
9/3/2024 21:37	53903	HALI_T2	2	2	0	1.5	1.75	0.25	0	0	0	0	0	0	0	0
9/3/2024 21:37	46602	LACR_T1	4	20	16	0.15	0.14	-0.01	-0.92	-0.91	0	0	0	0	0	0
9/3/2024 21:37	12001	HATF_T1	0	0	0	0	0	0	1.08	1	1	1	0	600	600	0
9/3/2024 21:37	67502	WEWI_T2	0	34	34	0	0.13	0.13	0	0	0	0	0	0	0	0
9/3/2024 21:37	40601	PIGR_T1	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
9/3/2024 21:37	64503	LAVI_T1	0	0	0	0	0	0	-1.03	-0.96	2	2	0	2400	2400	0
9/3/2024 21:37	62604	ENGL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:37	59201	THOM_T1	7	12	5	0.2	0.24	0.04	0	0	0	0	0	0	0	0
9/3/2024 21:37	40602	PIGR_T1	1	1	0	1.2	0.5	-0.7	-1.02	-1.11	2	2	0	1200	1200	0
9/3/2024 21:37	24201	PROV_T3	1	5	4	6.7	1.34	-5.36	-1.36	-1.37	1	1	0	1200	1200	0
9/3/2024 21:37	45902	AUBU_T1	52	409	357	0.21	0.29	0.08	0	0	0	0	0	0	0	0
9/3/2024 21:37	20601	GRWO_T2	0	0	0	0	0	0	0.8	0.75	0	0	0	0	0	0
9/3/2024 21:37	66903	SHIL_T2	0	0	0	0	0	0	-0.89	-0.89	0	0	0	0	0	0
9/3/2024 21:37	12701	MACU_T1	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
9/3/2024 21:37	59302	MCAL_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:37	42201	SHEN_T2	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
9/3/2024 21:37	66901	SHIL_T2	63	138	75	0.12	0.19	0.07	0	0	0	0	0	0	0	0
9/3/2024 21:37	59301	MCAL_T1	2	6	4	1.2	0.57	-0.63	-1.35	-1.34	0	0	0	0	0	0
9/3/2024 21:37	44201	POIN_T1	0	0	0	0	0	0	-2.69	-2.74	4	4	0	4200	4200	0
9/3/2024 21:37	62607	ENGL_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	300	300	0
9/3/2024 21:37	46504	LOHA_T1	3	37	34	0.57	0.28	-0.29	0	0	0	0	0	0	0	0
9/3/2024 21:37	57403	SPAN_T1	18	71	53	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
9/3/2024 21:38	67605	WARW_T1	23	22	-1	0.55	0.5	-0.05	-1.17	-1.2	0	0	0	0	0	0
9/3/2024 21:38	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
9/3/2024 21:38	66302	MCGO_T2	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
9/3/2024 21:38	55002	NEWP_T1	6	6	0	1	1.17	0.17	0	0	0	0	0	0	0	0
9/3/2024 21:38	45902	AUBU_T1	52	409	357	0.21	0.29	0.08	-0.99	-1.12	0	0	0	0	0	0
9/3/2024 21:38	67505	WEWI_T1	0	0	0	0	0	0	-0.1	-0.09	1	1	0	900	900	0
9/3/2024 21:38	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:38	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:38	66903	SHIL_T2	0	0	0	0	0	0	-0.89	-0.89	0	0	0	0	0	0
9/3/2024 21:38	66901	SHIL_T2	63	138	75	0.12	0.19	0.07	0	0	0	0	0	0	0	0
9/3/2024 21:38	55101	WERT_T1	0	0	0	0	0	0	-1.34	-1.02	2	2	0	1500	1500	0
9/3/2024 21:38	60101	COCA_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
9/3/2024 21:38	44802	EDAN_T2	0	0	0	0	0	0	-1.6	-1.59	0	0	0	0	0	0
9/3/2024 21:38	53901	HALI_T2	5	5	0	0.56	0.64	0.08	-2.61	-2.64	0	0	0	0	0	0
9/3/2024 21:38	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:38	13905	SEID_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
9/3/2024 21:38	20603	GRWO_T2	0	0	0	0	0	0	-0.67	-0.65	1	1	0	900	900	0
9/3/2024 21:38	15702	TANN_T2	0	0	0	0	0	0	-1.23	-1.13	0	0	0	0	0	0
9/3/2024 21:38	42701	AUGU_T1	1	1	0	1.1	1.5	0.4	0	0	2	2	0	1800	1800	0
9/3/2024 21:38	29402	BELT_T1	1	1	0	8.5	8.2	-0.3	0	0	0	0	0	0	0	0
9/3/2024 21:38	59202	THOM_T1	26	81	55	0.18	0.18	0	0	0	0	0	0	0	0	0
9/3/2024 21:38	52006	LING_T2	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:38	52002	LING_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/3/2024 21:38	67803	WLAN_T1	0	4	4	0	0.1	0.1	-0.76	-0.8	0	0	0	0	0	0
9/3/2024 21:38	67805	WLAN_T1	348	533	185	0.22	0.39	0.17	0	0	0	0	0	0	0	0
9/3/2024 21:38	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:38	45602	WOOL_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
9/3/2024 21:38	14802	TREI_T2	1	1	0	0.1	0.1	0	0.43	0.42	0	0	0	0	0	0
9/3/2024 21:38	63202	MGTN_T2	0	0	0	0	0	0	-0.17	-0.2	1	1	0	900	900	0
9/3/2024 21:38	45901	AUBU_T1	74	168	94	0.28	0.38	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:38	67804	WLAN_T1	0	17	17	0	0.14	0.14	0	0	0	0	0	0	0	0
9/3/2024 21:38	66303	MCGO_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:38	59201	THOM_T1	7	12	5	0.2	0.24	0.04	0	0	0	0	0	0	0	0
9/3/2024 21:38	67802	WLAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:38	40601	PIGR_T1	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
9/3/2024 21:38	47001	HUGH_T2	3	7	4	8.97	4.14	-4.83	-0.83	-0.89	0	0	0	0	0	0
9/3/2024 21:38	60701	BREC_T1	2	0	-2	0.1	0	-0.1	-1.42	-1.66	3	3	0	1800	1800	0
9/3/2024 21:38	61301	EARL_T1	0	0	0	0	0	0	-0.49	-0.49	1	1	0	900	900	0
9/3/2024 21:38	15703	TANN_T2	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0	0
9/3/2024 21:38	66505	SMAN_T2	3	3	0	0.3	0.43	0.13	0.09	0.12	1	1	0	900	900	0
9/3/2024 21:38	44801	EDAN_T2	204	300	96	0.49	0.55	0.06	0	0	0	0	0	0	0	0
9/3/2024 21:38	55001	NEWP_T1	12	37	25	0.15	0.19	0.04	-0.21	-0.23	0	0	0	0	0	0
9/3/2024 21:38	12601	MACA_T1	0	0	0	0	0	0	0.77	0.75	0	0	0	0	0	0
9/3/2024 21:38	53903	HALI_T2	2	2	0	1.5	1.75	0.25	0	0	0	0	0	0	0	0
9/3/2024 21:38	53902	HALI_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:38	42601	TUSC_T1	1	2	1	0.2	0	-0.2	-0.49	-0.5	2	2	0	1800	1800	0
9/3/2024 21:38	29401	BELT_T1	75	27	-48	0.29	0.17	-0.12	0	0	1	1	0	900	900	0
9/3/2024 21:38	15203	SFAR_T2	50	116	66	0.13	0.19	0.06	-1.2	-1.2	0	0	0	0	0	0
9/3/2024 21:38	42802	SELI_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
9/3/2024 21:38	40602	PIGR_T1	1	1	0	1.2	0.5	-0.7	0	0	0	0	0	0	0	0
9/3/2024 21:38	47002	HUGH_T2	0	9	9	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:38	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:38	52004	LING_T2	2	2	0	6.2	6.45	0.25	0.14	0.16	0	0	0	0	0	0
9/3/2024 21:39	67502	WEWI_T2	0	34	34	0	0.13	0.13	-0.37	-0.39	0	0	0	0	0	0
9/3/2024 21:39	61001	DONV_T1	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
9/3/2024 21:39	41901	REED_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
9/3/2024 21:39	54204	PENN_T2	3	3	0	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
9/3/2024 21:39	12807	MICK_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:39	12701	MACU_T1	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
9/3/2024 21:39	50502	MECH_T1	131	217	86	0.46	0.63	0.17	-0.35	-0.38	0	0	0	0	0	0
9/3/2024 21:39	58705	ROSE_T2	5	5	0	3.14	3.5	0.36	0	0	0	0	0	0	0	0
9/3/2024 21:39	54206	PENN_T2	60	56	-4	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
9/3/2024 21:39	54201	PENN_T1	251	335	84	0.42	0.47	0.05	0	0	0	0	0	0	0	0
9/3/2024 21:39	50501	MECH_T1	4	4	0	1.03	1.33	0.3	0	0	0	0	0	0	0	0
9/3/2024 21:39	54202	PENN_T2	20	28	8	0.14	0.13	-0.01	-0.33	0.22	0	0	0	0	0	0
9/3/2024 21:39	10805	CHHI_T2	1	1	0	7.4	7.4	0	-1.89	-1.76	2	2	0	1200	1200	0
9/3/2024 21:39	60101	COCA_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
9/3/2024 21:39	52004	LING_T2	2	2	0	6.2	6.45	0.25	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/3/2024 21:39	45501	DERR_T2	0	1	1	0	0.1	0.1	0.2	-0.18	2	2	0	1800	1800	0
9/3/2024 21:39	63602	LETO_T1	0	7	7	0	0.1	0.1	-0.28	-0.42	0	0	0	0	0	0
9/3/2024 21:39	41902	REED_T1	0	0	0	0	0	0	1.09	1.06	0	0	0	0	0	0
9/3/2024 21:39	15203	SFAR_T2	50	116	66	0.13	0.19	0.06	0	0	0	0	0	0	0	0
9/3/2024 21:39	12801	MICK_T1	0	0	0	0	0	0	-0.33	-0.38	0	0	0	0	0	0
9/3/2024 21:39	47403	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:39	45602	WOOL_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
9/3/2024 21:39	57403	SPAN_T1	18	71	53	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
9/3/2024 21:39	48302	ORWI_T2	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
9/3/2024 21:39	52006	LING_T2	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:39	54203	PENN_T1	142	223	81	0.38	0.37	-0.01	0.83	0.82	0	0	0	0	0	0
9/3/2024 21:39	54205	PENN_T1	76	192	116	0.25	0.25	0	0	0	0	0	0	0	0	0
9/3/2024 21:39	45901	AUBU_T1	74	168	94	0.28	0.38	0.1	0.31	0.3	0	0	0	0	0	0
9/3/2024 21:39	67503	WEWI_T2	1	1	0	8.5	9	0.5	-0.19	-0.22	0	0	0	0	0	0
9/3/2024 21:39	10503	CRAC_T1	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
9/3/2024 21:39	45902	AUBU_T1	52	409	357	0.21	0.29	0.08	-0.99	-1.12	0	0	0	0	0	0
9/3/2024 21:39	15204	SFAR_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
9/3/2024 21:39	57401	SPAN_T1	88	333	245	0.19	0.37	0.18	-1.1	-0.38	1	0	-1	600	0	-600
9/3/2024 21:39	47401	PENS_T1	0	12	12	0	0.1	0.1	0.93	0.76	0	0	0	0	0	0
9/3/2024 21:39	53501	EVIL_T2	1	2	1	0.8	0.65	-0.15	-0.01	-0.01	1	1	0	600	600	0
9/3/2024 21:39	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:39	52002	LING_T2	1	1	0	0.3	0.6	0.3	0.18	0.04	0	0	0	0	0	0
9/3/2024 21:39	58701	ROSE_T2	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
9/3/2024 21:40	67703	WERN_T2	0	0	0	0	0	0	-0.17	-0.19	1	1	0	900	900	0
9/3/2024 21:40	44702	MUNC_T2	59	1	-58	0.25	0.3	0.05	0	0	0	0	0	0	0	0
9/3/2024 21:40	64801	MONE_T2	1	22	21	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
9/3/2024 21:40	14801	TREI_T2	0	1	1	0	0.2	0.2	1.02	0.97	0	0	0	0	0	0
9/3/2024 21:40	52501	PROG_T1	0	0	0	0	0	0	-0.11	-0.13	1	1	0	300	300	0
9/3/2024 21:40	46903	MNTG_T2	0	0	0	0	0	0	-0.1	-0.12	1	1	0	600	600	0
9/3/2024 21:40	60803	BUCK_T1	12	22	10	0.41	0.46	0.05	0	0	0	0	0	0	0	0
9/3/2024 21:40	49804	UNIV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/3/2024 21:40	14802	TREI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/3/2024 21:40	55105	WERT_T1	0	0	0	0	0	0	-0.39	-0.42	1	1	0	900	900	0
9/3/2024 21:40	58402	MORO_T1	0	0	0	0	0	0	0.46	0.39	1	1	0	900	900	0
9/3/2024 21:40	60801	BUCK_T1	40	67	27	0.24	0.48	0.24	-0.21	-0.22	0	0	0	0	0	0
9/3/2024 21:40	53802	MBRG_T2	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
9/3/2024 21:40	44701	MUNC_T2	48	72	24	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
9/3/2024 21:40	51304	WIND_T2	0	0	0	0	0	0	0.58	0.51	0	0	0	0	0	0
9/3/2024 21:40	23203	HIRU_T2	4	0	-4	0.13	0	-0.13	-0.04	-0.01	0	0	0	0	0	0
9/3/2024 21:40	45602	WOOL_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
9/3/2024 21:40	15203	SFAR_T2	50	116	66	0.13	0.19	0.06	-1.2	-1.2	0	0	0	0	0	0
9/3/2024 21:40	21705	SUBU_T1	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
9/3/2024 21:40	29401	BELT_T1	75	27	-48	0.29	0.17	-0.12	0	0	1	1	0	900	900	0
9/3/2024 21:40	16102	BING_T2	21	25	4	0.64	0.64	0	0	0	0	0	0	0	0	0
9/3/2024 21:40	42002	MNVL_T2	1	2	1	1.7	0.8	-0.9	0	0	0	0	0	0	0	0
9/3/2024 21:40	47403	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:40	54502	ENOL_T2	30	39	9	0.22	0.27	0.05	0	0	0	0	0	0	0	0
9/3/2024 21:40	23202	HIRU_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/3/2024 21:40	45501	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:40	56503	ROCK_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/3/2024 21:40	54501	ENOL_T2	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/3/2024 21:40	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:40	49803	UNIV_T1	1	1	0	6	5.8	-0.2	-1.06	-1.03	0	0	0	0	0	0
9/3/2024 21:40	64802	MONE_T2	3	71	68	0.1	0.25	0.15	0.23	0.24	0	0	0	0	0	0
9/3/2024 21:40	54505	ENOL_T2	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
9/3/2024 21:40	29402	BELT_T1	1	1	0	8.5	8.2	-0.3	0	0	0	0	0	0	0	0
9/3/2024 21:40	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:40	56501	ROCK_T2	2	3	1	1.1	0.73	-0.37	0.09	0.06	0	0	0	0	0	0
9/3/2024 21:40	44703	MUNC_T2	2	2	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
9/3/2024 21:40	16103	BING_T2	0	0	0	0	0	0	-1.54	-1.45	1	1	0	900	900	0
9/3/2024 21:40	60101	COCA_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
9/3/2024 21:40	53501	EVIL_T2	1	2	1	0.8	0.65	-0.15	-0.01	-0.01	1	1	0	600	600	0
9/3/2024 21:40	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/3/2024 21:40	54504	ENOL_T2	0	0	0	0	0	0	-1.65	-1.65	1	1	0	600	600	0
9/3/2024 21:40	42701	AUGU_T1	1	1	0	1.1	1.5	0.4	0	0	2	2	0	1800	1800	0
9/3/2024 21:40	23201	HIRU_T2	10	0	-10	0.12	0	-0.12	0	0	0	0	0	0	0	0
9/3/2024 21:40	21701	SUBU_T1	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
9/3/2024 21:40	42001	MNVL_T2	276	279	3	0.96	1.1	0.14	-0.24	-0.27	0	0	0	0	0	0
9/3/2024 21:40	65207	PRIN_T4	1	8	7	1.3	0.25	-1.05	0	0	0	0	0	0	0	0
9/3/2024 21:40	47401	PENS_T1	0	12	12	0	0.1	0.1	0.93	0.76	0	0	0	0	0	0
9/3/2024 21:40	21704	SUBU_T1	0	0	0	0	0	0	-2.53	-2.57	2	2	0	2400	2400	0
9/3/2024 21:40	60701	BREC_T1	2	0	-2	0.1	0	-0.1	-0.47	-0.55	1	1	0	600	600	0
9/3/2024 21:40	45502	DERR_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
9/3/2024 21:40	45901	AUBU_T1	74	168	94	0.28	0.38	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:41	67502	WEWI_T2	0	34	34	0	0.13	0.13	-0.37	-0.39	0	0	0	0	0	0
9/3/2024 21:41	52402	GRPA_T2	4	9	5	0.93	0.62	-0.31	0	0	0	0	0	0	0	0
9/3/2024 21:41	56503	ROCK_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/3/2024 21:41	53501	EVIL_T2	1	2	1	0.8	0.65	-0.15	-0.01	-0.01	2	2	0	1200	1200	0
9/3/2024 21:41	11901	ETEK_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
9/3/2024 21:41	60701	BREC_T1	2	0	-2	0.1	0	-0.1	-0.47	-0.55	1	1	0	600	600	0
9/3/2024 21:41	12001	HATF_T1	0	0	0	0	0	0	1.08	1	1	1	0	600	600	0
9/3/2024 21:41	43105	SMIL_T2	15	23	8	0.18	0.32	0.14	0	0	0	0	0	0	0	0
9/3/2024 21:41	66502	SMAN_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
9/3/2024 21:41	45802	HEGI_T2	46	45	-1	1.16	0.91	-0.25	0.56	0.69	0	0	0	0	0	0
9/3/2024 21:41	66505	SMAN_T2	3	3	0	0.3	0.43	0.13	0	0	0	0	0	0	0	0
9/3/2024 21:41	12604	MACA_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
9/3/2024 21:41	43108	SMIL_T2	3	3	0	0.17	0.4	0.23	-1.1	-1.11	1	1	0	1200	1200	0
9/3/2024 21:41	42903	MIDD_T2	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0	0
9/3/2024 21:41	62604	ENGL_T1	0	3	3	0	0.1	0.1	-0.98	-0.84	1	1	0	600	600	0
9/3/2024 21:41	65601	QVIL_T2	26	82	56	0.16	0.18	0.02	0	0	0	0	0	0	0	0
9/3/2024 21:41	44301	BEAV_T2	0	0	0	0	0	0	0.04	-0.09	2	2	0	1200	1200	0
9/3/2024 21:41	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/3/2024 21:41	20601	GRWO_T2	0	0	0	0	0	0	0.8	0.75	0	0	0	0	0	0
9/3/2024 21:41	67503	WEWI_T2	1	1	0	8.5	9	0.5	0	0	0	0	0	0	0	0
9/3/2024 21:41	56504	ROCK_T2	0	0	0	0	0	0	-0.27	-0.18	0	0	0	0	0	0
9/3/2024 21:41	43103	SMIL_T2	16	22	6	0.41	0.8	0.39	0	0	0	0	0	0	0	0
9/3/2024 21:41	65602	QVIL_T2	2	5	3	0.15	0.32	0.17	0	0	0	0	0	0	0	0
9/3/2024 21:41	13704	SCHN_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
9/3/2024 21:41	57403	SPAN_T1	18	71	53	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
9/3/2024 21:41	57401	SPAN_T1	88	333	245	0.19	0.37	0.18	-1.1	-0.38	1	0	-1	600	0	-600
9/3/2024 21:41	45902	AUBU_T1	52	409	357	0.21	0.29	0.08	-0.49	-0.56	0	0	0	0	0	0
9/3/2024 21:41	42902	MIDD_T2	0	0	0	0	0	0	-0.31	-0.26	0	0	0	0	0	0
9/3/2024 21:41	61803	EELI_T2	0	0	0	0	0	0	0.15	0.09	1	1	0	600	600	0
9/3/2024 21:41	56501	ROCK_T2	2	3	1	1.1	0.73	-0.37	0.09	0.06	0	0	0	0	0	0
9/3/2024 21:41	65604	QVIL_T2	0	1	1	0	0.1	0.1	0.31	0.31	0	0	0	0	0	0
9/3/2024 21:41	52404	GRPA_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
9/3/2024 21:41	40101	HUNT_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
9/3/2024 21:41	47203	FAXO_T2	0	0	0	0	0	0	-0.17	-0.23	0	0	0	0	0	0
9/3/2024 21:41	58102	NEKI_T1	1	1	0	0.9	1.2	0.3	0.46	0.42	0	0	0	0	0	0
9/3/2024 21:41	61801	EELI_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
9/3/2024 21:41	43102	SMIL_T2	6	8	2	0.7	0.64	-0.06	0	0	0	0	0	0	0	0
9/3/2024 21:41	63501	HEID_TBK1-2	48	48	0	0.7	0.38	-0.32	0.37	0.45	0	0	0	0	0	0
9/3/2024 21:41	45501	DERR_T2	0	1	1	0	0.1	0.1	0.2	-0.18	2	2	0	1800	1800	0
9/3/2024 21:41	52403	GRPA_T2	79	112	33	0.74	1.19	0.45	-0.22	-0.28	0	0	0	0	0	0
9/3/2024 21:41	67702	WERN_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
9/3/2024 21:42	57403	SPAN_T1	18	71	53	0.24	0.23	-0.01	0.07	0.06	0	0	0	0	0	0
9/3/2024 21:42	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:42	10805	CHHI_T2	1	1	0	7.4	7.4	0	-1.89	-1.76	2	2	0	1200	1200	0
9/3/2024 21:42	46401	FLEM_T2	930	993	63	0.87	1.05	0.18	-0.33	-0.35	0	0	0	0	0	0
9/3/2024 21:42	55405	SHER_T1	21	11	-10	0.6	0.65	0.05	-0.17	-0.17	0	0	0	0	0	0
9/3/2024 21:42	42903	MIDD_T2	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0	0
9/3/2024 21:42	60701	BREC_T1	2	0	-2	0.1	0	-0.1	-1.42	-1.66	3	3	0	1800	1800	0
9/3/2024 21:42	11104	EGYP_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
9/3/2024 21:42	12701	MACU_T1	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
9/3/2024 21:42	12807	MICK_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:42	42601	TUSC_T1	1	2	1	0.2	0	-0.2	-0.49	-0.5	2	2	0	1800	1800	0
9/3/2024 21:42	54204	PENN_T2	3	3	0	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
9/3/2024 21:42	40902	JESH_T1	9	141	132	0.12	0.13	0.01	0	0	0	0	0	0	0	0
9/3/2024 21:42	45402	WBLO_T2	73	90	17	0.44	0.5	0.06	-1.21	-1.2	1	1	0	900	900	0
9/3/2024 21:42	54206	PENN_T2	60	56	-4	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
9/3/2024 21:42	46101	MACI_T2	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
9/3/2024 21:42	54202	PENN_T2	20	28	8	0.14	0.13	-0.01	-0.33	0.22	0	0	0	0	0	0
9/3/2024 21:42	40903	JESH_T1	1	10	9	0.1	0.12	0.02	0	0	0	0	0	0	0	0
9/3/2024 21:42	67501	WEWI_T1	0	0	0	0	0	0	-0.57	-0.48	0	0	0	0	0	0
9/3/2024 21:42	12801	MICK_T1	0	0	0	0	0	0	-0.33	-0.38	0	0	0	0	0	0
9/3/2024 21:42	66703	STRA_T1	4	125	121	0.43	0.32	-0.11	0	0	0	0	0	0	0	0
9/3/2024 21:42	11103	EGYP_T1	1	0	-1	4.2	0	-4.2	0	0	0	0	0	0	0	0
9/3/2024 21:42	20401	ASHF_T2	7	7	0	0.57	0.52	-0.05	0	0	0	0	0	0	0	0
9/3/2024 21:42	66901	SHIL_T2	63	138	75	0.12	0.19	0.07	-1.62	-1.67	1	1	0	1200	1200	0
9/3/2024 21:42	40901	JESH_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:42	46402	FLEM_T2	1170	1236	66	0.92	1.16	0.24	0	0	0	0	0	0	0	0
9/3/2024 21:42	45501	DERR_T2	0	1	1	0	0.1	0.1	0.2	-0.18	2	2	0	1800	1800	0
9/3/2024 21:42	42001	MNVL_T2	276	279	3	0.96	1.1	0.14	0	0	0	0	0	0	0	0
9/3/2024 21:42	55002	NEWP_T1	6	6	0	1	1.17	0.17	0	0	0	0	0	0	0	0
9/3/2024 21:42	15203	SFAR_T2	50	116	66	0.13	0.19	0.06	-1.2	-1.2	0	0	0	0	0	0
9/3/2024 21:42	55001	NEWP_T1	12	37	25	0.15	0.19	0.04	-0.21	-0.23	0	0	0	0	0	0
9/3/2024 21:42	56503	ROCK_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/3/2024 21:42	42902	MIDD_T2	0	0	0	0	0	0	-0.31	-0.26	0	0	0	0	0	0
9/3/2024 21:42	59002	MIFF_T1	5	6	1	0.82	0.73	-0.09	0	0	0	0	0	0	0	0
9/3/2024 21:42	63602	LETO_T1	0	7	7	0	0.1	0.1	-0.28	-0.42	0	0	0	0	0	0
9/3/2024 21:42	42002	MNVL_T2	1	2	1	1.7	0.8	-0.9	0.34	0.34	0	0	0	0	0	0
9/3/2024 21:42	45802	HEGI_T2	46	45	-1	1.16	0.91	-0.25	0.56	0.69	0	0	0	0	0	0
9/3/2024 21:42	57401	SPAN_T1	88	333	245	0.19	0.37	0.18	-1.1	-0.38	1	0	-1	600	0	-600
9/3/2024 21:42	56501	ROCK_T2	2	3	1	1.1	0.73	-0.37	0.18	0.12	0	0	0	0	0	0
9/3/2024 21:42	44801	EDAN_T2	204	300	96	0.49	0.55	0.06	-1.64	-1.66	0	0	0	0	0	0
9/3/2024 21:42	53501	EVIL_T2	1	2	1	0.8	0.65	-0.15	-0.01	-0.01	2	2	0	1200	1200	0
9/3/2024 21:42	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
9/3/2024 21:42	65205	PRIN_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
9/3/2024 21:42	66701	STRA_T1	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
9/3/2024 21:42	59003	MIFF_T1	1	1	0	0.2	0.4	0.2	0.41	0.73	0	0	0	0	0	0
9/3/2024 21:42	20403	ASHF_T2	0	0	0	0	0	0	0.21	0.13	0	0	0	0	0	0
9/3/2024 21:43	53601	DALM_T2	1	1	0	0.8	0.4	-0.4	0.29	0.37	0	0	0	0	0	0
9/3/2024 21:43	45702	LIND_T2	1	1	0	0.5	0.6	0.1	-0.48	-0.47	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/3/2024 21:43	47403	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:43	14402	SSLA_T1	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/3/2024 21:43	12605	MACA_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
9/3/2024 21:43	40702	FFLD_T1	4	5	1	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
9/3/2024 21:43	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
9/3/2024 21:43	60803	BUCK_T1	12	22	10	0.41	0.46	0.05	0	0	0	0	0	0	0	0
9/3/2024 21:43	57205	ROSS_T1	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
9/3/2024 21:43	66903	SHIL_T2	0	0	0	0	0	0	-0.89	-0.89	0	0	0	0	0	0
9/3/2024 21:43	62106	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:43	57403	SPAN_T1	18	71	53	0.24	0.23	-0.01	0.07	0.06	0	0	0	0	0	0
9/3/2024 21:43	46506	LOHA_T1	3	4	1	6.03	4.55	-1.48	0	0	0	0	0	0	0	0
9/3/2024 21:43	44802	EDAN_T2	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
9/3/2024 21:43	67401	WAKE_T2	0	27	27	0	0.14	0.14	-0.78	-0.79	0	0	0	0	0	0
9/3/2024 21:43	53902	HALI_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:43	43102	SMIL_T2	6	8	2	0.7	0.64	-0.06	-0.29	-0.29	0	0	0	0	0	0
9/3/2024 21:43	57401	SPAN_T1	88	333	245	0.19	0.37	0.18	0	0	0	0	0	0	0	0
9/3/2024 21:43	40701	FFLD_T1	37	45	8	0.35	0.36	0.01	0	0	0	0	0	0	0	0
9/3/2024 21:43	43402	BENT_T1	0	0	0	0	0	0	-0.64	-0.65	1	1	0	600	600	0
9/3/2024 21:43	53903	HALI_T2	2	2	0	1.5	1.75	0.25	0	0	0	0	0	0	0	0
9/3/2024 21:43	57201	ROSS_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
9/3/2024 21:43	43105	SMIL_T2	15	23	8	0.18	0.32	0.14	0	0	0	0	0	0	0	0
9/3/2024 21:43	14401	SSLA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/3/2024 21:43	44301	BEAV_T2	0	0	0	0	0	0	0.04	-0.09	2	2	0	1200	1200	0
9/3/2024 21:43	66505	SMAN_T2	3	3	0	0.3	0.43	0.13	0	0	0	0	0	0	0	0
9/3/2024 21:43	54206	PENN_T2	60	56	-4	0.24	0.22	-0.02	0.15	0.1	0	0	0	0	0	0
9/3/2024 21:43	46504	LOHA_T1	3	37	34	0.57	0.28	-0.29	0	0	0	0	0	0	0	0
9/3/2024 21:43	43108	SMIL_T2	3	3	0	0.17	0.4	0.23	0	0	0	0	0	0	0	0
9/3/2024 21:43	15203	SPAR_T2	50	116	66	0.13	0.19	0.06	-1.2	-1.2	0	0	0	0	0	0
9/3/2024 21:43	54202	PENN_T2	20	28	8	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
9/3/2024 21:43	65503	MOJO_T2	0	0	0	0	0	0	-0.24	-0.21	0	0	0	0	0	0
9/3/2024 21:43	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:43	54204	PENN_T2	3	3	0	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
9/3/2024 21:43	65502	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:43	42903	MIDD_T2	2	2	0	0.85	0.85	0	-0.03	-0.13	0	0	0	0	0	0
9/3/2024 21:43	42802	SELI_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
9/3/2024 21:43	12006	HATF_T1	0	0	0	0	0	0	-0.08	0.03	1	1	0	1200	1200	0
9/3/2024 21:43	62105	ELAN_T1	0	25	25	0	0.1	0.1	0.51	0.5	0	0	0	0	0	0
9/3/2024 21:43	47401	PENS_T1	0	12	12	0	0.1	0.1	0.47	0.38	0	0	0	0	0	0
9/3/2024 21:43	16002	DORN_T2	0	0	0	0	0	0	-0.69	-0.72	1	1	0	1200	1200	0
9/3/2024 21:43	20401	ASHF_T2	7	0	0	0.57	0.52	-0.05	0	0	0	0	0	0	0	0
9/3/2024 21:43	40703	FFLD_T1	4	4	0	0.23	0.25	0.02	0	0	0	0	0	0	0	0
9/3/2024 21:43	66901	SHIL_T2	63	138	75	0.12	0.19	0.07	0	0	0	0	0	0	0	0
9/3/2024 21:43	43103	SMIL_T2	16	22	6	0.41	0.8	0.39	0	0	0	0	0	0	0	0
9/3/2024 21:43	60801	BUCK_T1	40	67	27	0.24	0.48	0.24	-0.21	-0.22	0	0	0	0	0	0
9/3/2024 21:43	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:43	66504	SMAN_T2	0	0	0	0	0	0	-0.27	-0.36	0	0	0	0	0	0
9/3/2024 21:43	60101	COCA_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
9/3/2024 21:43	14404	SSLA_T1	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
9/3/2024 21:43	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:43	44801	EDAN_T2	204	300	96	0.49	0.55	0.06	0	0	0	0	0	0	0	0
9/3/2024 21:43	62103	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:43	53501	EVIL_T2	1	2	1	0.8	0.65	-0.15	-0.01	-0.01	2	2	0	1200	1200	0
9/3/2024 21:43	45602	WOOL_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
9/3/2024 21:43	53901	HALI_T2	5	5	0	0.56	0.64	0.08	-2.61	-2.64	0	0	0	0	0	0
9/3/2024 21:43	20403	ASHF_T2	0	0	0	0	0	0	0.21	0.13	0	0	0	0	0	0
9/3/2024 21:43	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:43	53903	HALI_T2	2	2	0	1.5	1.75	0.25	0	0	0	0	0	0	0	0
9/3/2024 21:44	12807	MICK_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:44	53901	HALI_T2	5	5	0	0.56	0.64	0.08	-1.3	-1.32	0	0	0	0	0	0
9/3/2024 21:44	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:44	65901	SAKR_T2	1	1	0	8.1	7.8	-0.3	0	0	0	0	0	0	0	0
9/3/2024 21:44	64305	LINC_T1	0	0	0	0	0	0	-0.59	-0.62	0	0	0	0	0	0
9/3/2024 21:44	52402	GRPA_T2	4	9	5	0.93	0.62	-0.31	-0.77	-0.78	0	0	0	0	0	0
9/3/2024 21:44	56501	ROCK_T2	2	3	1	1.1	0.73	-0.37	0.18	0.12	0	0	0	0	0	0
9/3/2024 21:44	57401	SPAN_T1	88	333	245	0.19	0.37	0.18	-1.1	-0.38	1	0	-1	600	0	-600
9/3/2024 21:44	45602	WOOL_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
9/3/2024 21:44	11103	EGYP_T1	1	0	-1	4.2	0	-4.2	0	0	0	0	0	0	0	0
9/3/2024 21:44	46203	DANV_T2	1	1	0	7	7.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:44	65904	SAKR_T2	0	0	0	0	0	0	-1.84	-1.85	2	2	0	900	900	0
9/3/2024 21:44	59102	WALK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/3/2024 21:44	42902	MIDD_T2	0	0	0	0	0	0	-0.31	-0.26	0	0	0	0	0	0
9/3/2024 21:44	51301	WIND_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
9/3/2024 21:44	58202	NEWV_T1	0	0	0	0	0	0	0.56	0.49	0	0	0	0	0	0
9/3/2024 21:44	52401	GRPA_T2	0	1	1	0	0.3	0.3	-0.45	-0.47	0	0	0	0	0	0
9/3/2024 21:44	42903	MIDD_T2	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0	0
9/3/2024 21:44	60701	BREC_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/3/2024 21:44	52404	GRPA_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
9/3/2024 21:44	46803	HEPB_T2	0	0	0	0	0	0	0.47	0.5	0	0	0	0	0	0
9/3/2024 21:44	20401	ASHF_T2	7	0	0	0.57	0.52	-0.05	-0.26	-0.26	0	0	0	0	0	0
9/3/2024 21:44	44801	EDAN_T2	204	300	96	0.49	0.55	0.06	-1.64	-1.66	0	0	0	0	0	0
9/3/2024 21:44	42802	SELI_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
9/3/2024 21:44	57403	SPAN_T1	18	71	53	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
9/3/2024 21:44	58102	NEKI_T1	1	1	0	0.9	1.2	0.3	0.46	0.42	0	0	0	0	0	0
9/3/2024 21:44	52403	GRPA_T2	79	112	33	0.74	1.19	0.45	0	0	0	0	0	0	0	0
9/3/2024 21:44	46205	DANV_T2	0	0	0	0	0	0	-0.86	-0.85	1	1	0	1200	1200	0
9/3/2024 21:44	63501	HEID_TBK1-2	48	48	0	0.7	0.38	-0.32	0.37	0.45	0	0	0	0	0	0
9/3/2024 21:44	53902	HALI_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:44	12802	MICK_T1	0	0	0	0	0	0	-1.28	-1.27	0	0	0	0	0	0
9/3/2024 21:44	66505	SMAN_T2	3	3	0	0.3	0.43	0.13	0	0	0	0	0	0	0	0
9/3/2024 21:44	47002	HUGH_T2	0	9	9	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:44	47802	MOCA_T2	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
9/3/2024 21:44	46801	HEPB_T2	2	2	0	0.75	1	0.25	0	0	0	0	0	0	0	0
9/3/2024 21:44	55002	NEWP_T1	6	6	0	1	1.17	0.17	-0.25	-0.26	0	0	0	0	0	0
9/3/2024 21:44	67605	WARW_T1	23	22	-1	0.55	0.5	-0.05	-1.17	-1.2	0	0	0	0	0	0
9/3/2024 21:44	11104	EGYP_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
9/3/2024 21:44	53502	EVIL_T2	0	0	0	0	0	0	-0.27	0.22	1	0	-1	600	0	-600
9/3/2024 21:44	56503	ROCK_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/3/2024 21:44	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
9/3/2024 21:44	67203	TEHI_T1	0	0	0	0	0	0	2.41	2.07	2	2	0	1500	1500	0
9/3/2024 21:44	13701	SCHN_T2	0	0	0	0	0	0	-0.03	-0.05	1	1	0	600	600	0
9/3/2024 21:44	64902	MILL_T2	0	0	0	0	0	0	-0.56	-0.6	1	1	0	900	900	0
9/3/2024 21:44	53501	EVIL_T2	1	2	1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
9/3/2024 21:44	55001	NEWP_T1	12	37	25	0.15	0.19	0.04	0	0	0	0	0	0	0	0
9/3/2024 21:44	59101	WALK_T2	1	1	0	0.4	0	-0.4	1.65	1.88	0	0	0	0	0	0
9/3/2024 21:44	47001	HUGH_T2	3	7	4	8.97	4.14	-4.83	-0.83	-0.89	0	0	0	0	0	0
9/3/2024 21:44	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:45	15203	SPAR_T2	105	110	5	0.2	0.18	-0.02	-1.2	-1.2	0	0	0	0	0	0
9/3/2024 21:45	20401	ASHF_T2	6	7	1	0.52	0.5	-0.02	0	0	0	0	0	0	0	0
9/3/2024 21:45	44801	EDAN_T2	283	338	55	0.48	0.65	0.17	-3.29	-3.33	0	0	0	0	0	0
9/3/2024 21:45	44802	EDAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:45	60701	BREC_T1	0	0	0	0	0	0	-0.95	-1.11	2	2	0	1200	1200	0
9/3/2024 21:45	43108	SMIL_T2	3	3	0	0.37	0.4	0.03	0	0	0	0	0	0	0	0
9/3/2024 21:45	59201	THOM_T1	12	10	-2	0.24	0.19	-0.05	0	0	0	0	0	0	0	0
9/3/2024 21:45	53903	HALI_T2	2	2	0	1.7	1.75	0.05	0	0	0	0	0	0	0	0
9/3/2024 21:45	53902	HALI_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:45	59101	WALK_T2	0	1	1	0	0	0	0.83	0.94	0	0	0	0	0	0
9/3/2024 21:45	53901	HALI_T2	4	5	1	0.58	0.64	0.06	-1.3	-1.32	0	0	0	0	0	0
9/3/2024 21:45	67201	TEHI_T1	0	0	0	0	0	0	0.52	0.56	0	0	0	0	0	0
9/3/2024 21:45	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:45	29402	BELT_T1	1	1	0	8.1	8.4	0.3	0	0	0	0	0	0	0	0
9/3/2024 21:45	14404	SSLA_T1	1	0	-1	0.3	0	-0.3	-0.02	-0.04	0	0	0	0	0	0
9/3/2024 21:45	14202	EALL_T2	2	3	1	0.15	0.43	0.28	0	0	0	0	0	0	0	0
9/3/2024 21:45	44301	BEAV_T2	0	0	0	0	0	0	0.02	-0.05	1	1	0	600	600	0
9/3/2024 21:45	45402	WILLO_T2	87	133	46	0.48	0.53	0.05	-1.21	-1.2	1	1	0	900	900	0
9/3/2024 21:45	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:45	51201	MTON_T1	0	0	0	0	0	0	0.02	0.05	0	0	0	0	0	0
9/3/2024 21:45	14204	EALL_T2	0	0	0	0	0	0	1.01	1	0	0	0	0	0	0
9/3/2024 21:45	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:45	14401	SSLA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/3/2024 21:45	43102	SMIL_T2	7	8	1	0.66	0.64	-0.02	0	0	0	0	0	0	0	0
9/3/2024 21:45	64503	LAVI_T1	0	0	0	0	0	0	-0.52	-0.48	1	1	0	1200	1200	0
9/3/2024 21:45	20403	ASHF_T2	0	0	0	0	0	0	0.21	0.13	0	0	0	0	0	0
9/3/2024 21:45	43101	SMIL_T2	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
9/3/2024 21:45	53802	MBRG_T2	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
9/3/2024 21:45	53501	EVIL_T2	1	2	1	0.7	0.65	-0.05	-0.01	-0.01	2	2	0	1200	1200	0
9/3/2024 21:45	24204	PROV_T3	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
9/3/2024 21:45	29401	BELT_T1	4	31	27	0.13	0.16	0.03	0	0	1	1	0	900	900	0
9/3/2024 21:45	12801	MICK_T1	0	0	0	0	0	0	-0.33	-0.38	0	0	0	0	0	0
9/3/2024 21:45	55405	SHER_T1	11	11	0	0.45	0.65	0.2	-0.17	-0.17	0	0	0	0	0	0
9/3/2024 21:45	43105	SMIL_T2	19	23	4	0.28	0.32	0.04	0	0	0	0	0	0	0	0
9/3/2024 21:45	46402	FLEM_T2	1216	1247	31	1.07	1.27	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:45	14402	SSLA_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/3/2024 21:45	43103	SMIL_T2	20	22	2	0.53	0.8	0.27	0	0	0	0	0	0	0	0
9/3/2024 21:45	53601	DALM_T2	1	1	0	0.4	0.4	0	0.29	0.37	0	0	0	0	0	0
9/3/2024 21:45	12807	MICK_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/3/2024 21:45	24201	PROV_T3	2	5	3	3	1.34	-1.66	-1.36	-1.37	1	1	0	1200	1200	0
9/3/2024 21:45	59202	THOM_T1	74	47	-27	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
9/3/2024 21:45	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
9/3/2024 21:45	46401	FLEM_T2	961	1021	60	0.99	1.18	0.19	-0.33	-0.35	0	0	0	0	0	0
9/3/2024 21:46	46801	HEPB_T2	2	3	1	1	0.8	-0.2	0.59	0.6	0	0	0	0	0	0
9/3/2024 21:46	60101	COCA_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
9/3/2024 21:46	47403	PENS_T1	1	1	0	0.1	1.2	1.1	0	0	0	0	0	0	0	0
9/3/2024 21:46	40602	PIGR_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
9/3/2024 21:46	60701	BREC_T1	0	0	0	0	0	0	-0.47	-0.55	1	1	0	600	600	0
9/3/2024 21:46	43801	SWIL_T1	11	17	6	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
9/3/2024 21:46	44801	EDAN_T2	283	338	55	0.48	0.65	0.17	0	0	0	0	0	0	0	0
9/3/2024 21:46	29402	BELT_T1	1	1	0	8.1	8.4	0.3	0	0	0	0	0	0	0	0
9/3/2024 21:46	53902	HALI_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:46	45501	DERR_T2	0	1	1	0	0.1	0.1	0.2	-0.18	2	2	0	1800	1800	0
9/3/2024 21:46	63302	GREE_T1	0	0	0	0	0	0	0.37	0.31	0	0	0	0	0	0
9/3/2024 21:46	11104	EGYP_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
9/3/2024 21:46	29401	BELT_T1	4	31	27	0.13	0.16	0.03	0	0	1	1	0	900	900	0
9/3/2024 21:46	13704	SCHN_T2	0	1	1	0	0.1	0.1	-0.39	-0.41	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/3/2024 21:46	55101	WERT_T1	0	0	0	0	0	0	-4.01	-3.06	6	6	0	4500	4500	0
9/3/2024 21:46	57401	SPAN_T1	333	99	-234	0.37	0.19	-0.18	-1.1	-0.38	1	0	-1	600	0	-600
9/3/2024 21:46	53901	HALI_T2	4	5	1	0.58	0.64	0.06	-1.3	-1.32	0	0	0	0	0	0
9/3/2024 21:46	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
9/3/2024 21:46	40601	PIGR_T1	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
9/3/2024 21:46	57403	SPAN_T1	70	34	-36	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
9/3/2024 21:46	63305	GREE_T1	0	7	7	0	0.2	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:46	53903	HALI_T2	2	2	0	1.7	1.75	0.05	0	0	0	0	0	0	0	0
9/3/2024 21:46	43802	SWIL_T1	0	0	0	0	0	0	-0.1	-0.12	1	1	0	600	600	0
9/3/2024 21:46	42802	SELI_T1	0	1	1	0	0.3	0.3	-0.35	-0.36	0	0	0	0	0	0
9/3/2024 21:46	11301	EMMA_T1	0	0	0	0	0	0	-0.74	-0.76	0	0	0	0	0	0
9/3/2024 21:46	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:46	44802	EDAN_T2	0	1	1	0	0.1	0.1	-0.8	-0.79	0	0	0	0	0	0
9/3/2024 21:46	47401	PENS_T1	0	12	12	0	0.1	0.1	0.47	0.38	0	0	0	0	0	0
9/3/2024 21:46	56503	ROCK_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:46	44301	BEAV_T2	0	0	0	0	0	0	0.02	-0.05	1	1	0	600	600	0
9/3/2024 21:46	56501	ROCK_T2	2	4	2	1.05	0.7	-0.35	0.09	0.06	0	0	0	0	0	0
9/3/2024 21:47	64802	MONE_T2	33	83	50	0.14	0.25	0.11	0.23	0.24	0	0	0	0	0	0
9/3/2024 21:47	43108	SMIL_T2	3	3	0	0.37	0.4	0.03	0	0	0	0	0	0	0	0
9/3/2024 21:47	44301	BEAV_T2	0	0	0	0	0	0	0.02	-0.05	1	1	0	600	600	0
9/3/2024 21:47	46501	LOHA_T1	0	0	0	0	0	0	0.32	0.33	1	1	0	1200	1200	0
9/3/2024 21:47	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
9/3/2024 21:47	42902	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:47	43106	SMIL_T2	0	0	0	0	0	0	-0.23	-0.26	1	1	0	1200	1200	0
9/3/2024 21:47	14403	SSLA_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
9/3/2024 21:47	46506	LOHA_T1	3	4	1	6.03	4.9	-1.13	0	0	0	0	0	0	0	0
9/3/2024 21:47	46004	BERW_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
9/3/2024 21:47	44902	SCOT_T2	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
9/3/2024 21:47	51301	WIND_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
9/3/2024 21:47	59202	THOM_T1	74	47	-27	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
9/3/2024 21:47	59201	THOM_T1	12	10	-2	0.24	0.19	-0.05	0	0	0	0	0	0	0	0
9/3/2024 21:47	47403	PENS_T1	1	1	0	0.1	1.2	1.1	0	0	0	0	0	0	0	0
9/3/2024 21:47	10801	CHHI_T1	0	0	0	0	0	0	-0.75	-0.81	1	1	0	900	900	0
9/3/2024 21:47	14402	SSLA_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/3/2024 21:47	42802	SELI_T1	0	1	1	0	0.3	0.3	-0.35	-0.36	0	0	0	0	0	0
9/3/2024 21:47	46504	LOHA_T1	3	37	34	0.8	0.29	-0.51	0	0	0	0	0	0	0	0
9/3/2024 21:47	55101	WERT_T1	0	0	0	0	0	0	-1.34	-1.02	2	2	0	1500	1500	0
9/3/2024 21:47	63602	LETO_T1	0	61	61	0	0.15	0.15	-0.28	-0.42	0	0	0	0	0	0
9/3/2024 21:47	60101	COCA_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
9/3/2024 21:47	64801	MONE_T2	1	25	24	0.5	0.21	-0.29	0	0	0	0	0	0	0	0
9/3/2024 21:47	43202	MVIL_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
9/3/2024 21:47	47401	PENS_T1	0	12	12	0	0.1	0.1	0.47	0.38	0	0	0	0	0	0
9/3/2024 21:47	43102	SMIL_T2	7	8	1	0.66	0.64	-0.02	-0.29	-0.29	0	0	0	0	0	0
9/3/2024 21:47	58402	MORO_T1	0	0	0	0	0	0	0.46	0.39	1	1	0	900	900	0
9/3/2024 21:47	14401	SSLA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/3/2024 21:47	43105	SMIL_T2	19	23	4	0.28	0.32	0.04	0	0	0	0	0	0	0	0
9/3/2024 21:47	43103	SMIL_T2	20	22	2	0.53	0.8	0.27	0	0	0	0	0	0	0	0
9/3/2024 21:47	42201	SHEN_T2	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
9/3/2024 21:47	43104	SMIL_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	300	300	0
9/3/2024 21:47	23502	GEOR_T1	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
9/3/2024 21:47	42903	MIDD_T2	2	2	0	0.6	1.35	0.75	0	0	0	0	0	0	0	0
9/3/2024 21:47	14404	SSLA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/3/2024 21:47	10701	CATA_T2	0	0	0	0	0	0	-0.66	-0.58	1	1	0	1200	1200	0
9/3/2024 21:47	60701	BREC_T1	0	0	0	0	0	0	-0.47	-0.55	1	1	0	600	600	0
9/3/2024 21:48	55101	WERT_T1	0	0	0	0	0	0	-1.34	-1.02	2	2	0	1500	1500	0
9/3/2024 21:48	67805	WLAN_T1	374	580	206	0.24	0.45	0.21	-1.52	-1.53	0	0	0	0	0	0
9/3/2024 21:48	53802	MBRG_T2	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
9/3/2024 21:48	53501	EVIL_T2	1	2	1	0.7	0.65	-0.05	-0.01	-0.01	1	1	0	600	600	0
9/3/2024 21:48	67803	WLAN_T1	0	34	34	0	0.11	0.11	0	0	0	0	0	0	0	0
9/3/2024 21:48	62604	ENGL_T1	0	3	3	0	0.1	0.1	-0.98	-0.84	1	1	0	600	600	0
9/3/2024 21:48	43202	MVIL_T2	0	0	0	0	0	0	-1.43	-1.46	0	0	0	0	0	0
9/3/2024 21:48	44201	POIN_T1	0	32	32	0	0.15	0.15	-1.35	-1.37	2	2	0	2100	2100	0
9/3/2024 21:48	43402	BENT_T1	0	0	0	0	0	0	-1.92	-1.95	3	3	0	1800	1800	0
9/3/2024 21:48	13704	SCHN_T2	0	1	1	0	0.1	0.1	-0.39	-0.41	0	0	0	0	0	0
9/3/2024 21:48	64204	KINZ_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
9/3/2024 21:48	20603	GRWO_T2	0	0	0	0	0	0	-0.67	-0.65	1	1	0	900	900	0
9/3/2024 21:48	46001	BERW_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
9/3/2024 21:48	67804	WLAN_T1	0	65	65	0	0.14	0.14	0	0	0	0	0	0	0	0
9/3/2024 21:48	46401	FLEM_T2	961	1021	60	0.99	1.18	0.19	0	0	0	0	0	0	0	0
9/3/2024 21:48	12801	MICK_T1	0	0	0	0	0	0	-0.33	-0.38	0	0	0	0	0	0
9/3/2024 21:48	42802	SELI_T1	0	1	1	0	0.3	0.3	-0.69	-0.72	0	0	0	0	0	0
9/3/2024 21:48	44301	BEAV_T2	0	0	0	0	0	0	0.04	-0.09	2	2	0	1200	1200	0
9/3/2024 21:48	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	0.9	0.85	0	0	0	0	0	0
9/3/2024 21:48	63802	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:48	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:48	41901	REED_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/3/2024 21:48	64201	KINZ_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
9/3/2024 21:48	64203	KINZ_T1	0	0	0	0	0	0	-0.05	-0.06	1	1	0	600	600	0
9/3/2024 21:48	40601	PIGR_T1	0	9	9	0	0.12	0.12	-0.85	-0.81	0	0	0	0	0	0
9/3/2024 21:48	64202	KINZ_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
9/3/2024 21:48	67605	WARW_T1	13	22	9	0.47	0.5	0.03	-1.17	-1.2	0	0	0	0	0	0
9/3/2024 21:48	40801	EXCH_T2	2	3	1	0.25	0.13	-0.12	-0.49	-0.54	1	1	0	1200	1200	0
9/3/2024 21:48	12807	MICK_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/3/2024 21:48	40602	PIGR_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
9/3/2024 21:48	67802	WLAN_T1	0	9	9	0	0.16	0.16	0	0	0	0	0	0	0	0
9/3/2024 21:48	23001	SAJO_T1	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
9/3/2024 21:48	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:48	40802	EXCH_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/3/2024 21:48	46402	FLEM_T2	1216	1247	31	1.07	1.27	0.2	-0.4	-0.37	0	0	0	0	0	0
9/3/2024 21:48	58401	MORO_T1	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
9/3/2024 21:48	41902	REED_T1	0	0	0	0	0	0	1.09	1.06	0	0	0	0	0	0
9/3/2024 21:48	46004	BERW_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
9/3/2024 21:49	67605	WARW_T1	13	22	9	0.47	0.5	0.03	-1.17	-1.2	0	0	0	0	0	0
9/3/2024 21:49	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:49	53901	HALI_T2	4	5	1	0.58	0.64	0.06	-1.3	-1.32	0	0	0	0	0	0
9/3/2024 21:49	56501	ROCK_T2	2	4	2	1.05	0.7	-0.35	0.09	0.06	0	0	0	0	0	0
9/3/2024 21:49	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
9/3/2024 21:49	55002	NEWP_T1	6	6	0	1.17	1.03	-0.14	0	0	0	0	0	0	0	0
9/3/2024 21:49	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:49	42902	MIDD_T2	0	1	1	0	0.1	0.1	-0.31	-0.26	0	0	0	0	0	0
9/3/2024 21:49	52004	LING_T2	2	2	0	6.2	6.45	0.25	0.14	0.16	0	0	0	0	0	0
9/3/2024 21:49	44801	EDAN_T2	283	338	55	0.48	0.65	0.17	0	0	0	0	0	0	0	0
9/3/2024 21:49	41901	REED_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/3/2024 21:49	56503	ROCK_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:49	20403	ASHF_T2	0	0	0	0	0	0	0.21	0.13	0	0	0	0	0	0
9/3/2024 21:49	55101	WERT_T1	0	0	0	0	0	0	-1.34	-1.02	2	2	0	1500	1500	0
9/3/2024 21:49	52002	LING_T2	1	1	0	0.5	0.7	0.2	0.18	0.04	0	0	0	0	0	0
9/3/2024 21:49	54601	SUMM_T2	13	13	0	0.87	0.92	0.05	0	0	0	0	0	0	0	0
9/3/2024 21:49	58401	MORO_T1	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
9/3/2024 21:49	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:49	41902	REED_T1	0	0	0	0	0	0	1.09	1.06	0	0	0	0	0	0
9/3/2024 21:49	54602	SUMM_T2	3	9	6	0.13	0.23	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:49	13702	SCHN_T1	0	0	0	0	0	0	-0.06	0.11	0	0	0	0	0	0
9/3/2024 21:49	42903	MIDD_T2	2	2	0	0.6	1.35	0.75	0	0	0	0	0	0	0	0
9/3/2024 21:49	65502	MOJO_T2	1	0	-1	0.1	0	-0.1	-0.9	-0.85	0	0	0	0	0	0
9/3/2024 21:49	54603	SUMM_T2	2	2	0	0.15	0.35	0.2	-0.25	-0.31	1	1	0	900	900	0
9/3/2024 21:49	53903	HALI_T2	2	2	0	1.7	1.75	0.05	0	0	0	0	0	0	0	0
9/3/2024 21:49	55001	NEWP_T1	37	1	-36	0.19	0.1	-0.09	-0.21	-0.23	0	0	0	0	0	0
9/3/2024 21:49	53501	EVIL_T2	1	2	1	0.7	0.65	-0.05	-0.01	-0.01	1	1	0	600	600	0
9/3/2024 21:49	46102	MACI_T1	0	0	0	0	0	0	0.74	0.74	0	0	0	0	0	0
9/3/2024 21:49	55105	WERT_T1	0	0	0	0	0	0	-0.39	-0.42	1	1	0	900	900	0
9/3/2024 21:49	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:49	42201	SHEN_T2	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
9/3/2024 21:49	46903	MNTG_T2	0	0	0	0	0	0	-0.1	-0.12	1	1	0	600	600	0
9/3/2024 21:49	40101	HUNT_T2	0	0	0	0	0	0	-1.41	-1.38	0	0	0	0	0	0
9/3/2024 21:49	20401	ASHF_T2	6	7	1	0.52	0.5	-0.02	0	0	0	0	0	0	0	0
9/3/2024 21:49	53902	HALI_T2	1	1	0	5.8	6	0.2	-0.18	-0.22	0	0	0	0	0	0
9/3/2024 21:49	44802	EDAN_T2	0	1	1	0	0.1	0.1	-0.8	-0.79	0	0	0	0	0	0
9/3/2024 21:49	52006	LING_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
9/3/2024 21:49	45402	WILO_T2	87	133	46	0.48	0.53	0.05	-1.21	-1.2	1	1	0	900	900	0
9/3/2024 21:50	12802	MICK_T1	0	0	0	0	0	0	-1.28	-1.27	0	0	0	0	0	0
9/3/2024 21:50	57401	SPAN_T1	333	99	-234	0.37	0.19	-0.18	0	0	0	0	0	0	0	0
9/3/2024 21:50	43105	SMIL_T2	19	23	4	0.28	0.32	0.04	0	0	0	0	0	0	0	0
9/3/2024 21:50	42902	MIDD_T2	0	1	1	0	0.1	0.1	-0.31	-0.26	0	0	0	0	0	0
9/3/2024 21:50	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
9/3/2024 21:50	46504	LOHA_T1	3	37	34	0.8	0.29	-0.51	0	0	0	0	0	0	0	0
9/3/2024 21:50	46506	LOHA_T1	3	4	1	6.03	4.9	-1.13	0	0	0	0	0	0	0	0
9/3/2024 21:50	63404	HONY_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:50	43101	SMIL_T2	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
9/3/2024 21:50	12807	MICK_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/3/2024 21:50	43102	SMIL_T2	7	8	1	0.66	0.64	-0.02	0	0	0	0	0	0	0	0
9/3/2024 21:50	49803	UNIV_T1	1	2	1	5.9	2.85	-3.05	-1.06	-1.03	0	0	0	0	0	0
9/3/2024 21:50	43108	SMIL_T2	3	3	0	0.37	0.4	0.03	0	0	0	0	0	0	0	0
9/3/2024 21:50	12701	MACU_T1	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
9/3/2024 21:50	43103	SMIL_T2	20	22	2	0.53	0.8	0.27	0	0	0	0	0	0	0	0
9/3/2024 21:50	52403	GRPA_T2	94	112	18	0.88	1.19	0.31	-0.22	-0.28	0	0	0	0	0	0
9/3/2024 21:50	46402	FLEM_T2	1216	1247	31	1.07	1.27	0.2	-0.4	-0.37	0	0	0	0	0	0
9/3/2024 21:50	40903	JESH_T1	3	60	57	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
9/3/2024 21:50	42903	MIDD_T2	2	2	0	0.6	1.35	0.75	0	0	0	0	0	0	0	0
9/3/2024 21:50	45602	WOOL_T1	0	1	1	0	0.3	0.3	0.63	0.61	0	0	0	0	0	0
9/3/2024 21:50	40902	JESH_T1	75	287	212	0.13	0.21	0.08	-0.79	-0.78	0	0	0	0	0	0
9/3/2024 21:50	52404	GRPA_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/3/2024 21:50	51301	WIND_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
9/3/2024 21:50	63401	HONY_T1	0	0	0	0	0	0	-0.5	-0.5	1	1	0	600	600	0
9/3/2024 21:50	57403	SPAN_T1	70	34	-36	0.23	0.22	-0.01	0.07	0.06	0	0	0	0	0	0
9/3/2024 21:50	52401	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:50	49804	UNIV_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
9/3/2024 21:50	45501	DERR_T2	0	1	1	0	0.1	0.1	0.2	-0.18	2	2	0	1800	1800	0
9/3/2024 21:50	46401	FLEM_T2	961	1021	60	0.99	1.18	0.19	0	0	0	0	0	0	0	0
9/3/2024 21:50	52402	GRPA_T2	5	9	4	0.9	0.6	-0.3	-0.77	-0.78	0	0	0	0	0	0
9/3/2024 21:50	40901	JESH_T1	3	16	13	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/3/2024 21:51	65001	NEFF_T2	2	36	34	0.1	0.12	0.02	0	0	0	0	0	0	0	0
9/3/2024 21:51	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/3/2024 21:51	58401	MORO_T1	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
9/3/2024 21:51	53501	EVIL_T2	1	2	1	0.7	0.65	-0.05	-0.01	-0.01	1	1	0	600	600	0
9/3/2024 21:51	46901	MNTG_T2	0	0	0	0	0	0	1.28	1.39	0	0	0	0	0	0
9/3/2024 21:51	21206	ECAR_T2	1	1	0	7.6	8	0.4	-0.04	-0.08	0	0	0	0	0	0
9/3/2024 21:51	65003	NEFF_T2	0	1	1	0	0.1	0.1	-0.66	-0.71	1	1	0	600	600	0
9/3/2024 21:52	66505	SMAN_T2	3	3	0	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
9/3/2024 21:52	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2024 21:52	66504	SMAN_T2	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
9/3/2024 21:52	58401	MORO_T1	0	0	0	0	0	0	-0.53	-0.58	0	0	0	0	0	0
9/3/2024 21:52	67501	WEWI_T1	0	0	0	0	0	0	-0.48	-0.58	0	0	0	0	0	0
9/3/2024 21:53	57004	WHHI_T2	0	0	0	0	0	0	-0.59	-0.63	0	0	0	0	0	0
9/3/2024 21:53	57006	WHHI_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/3/2024 21:53	46302	ROHR_T1	4	4	0	1.85	2.23	0.38	0.14	0.13	0	0	0	0	0	0
9/3/2024 21:53	46301	ROHR_T1	1	1	0	6.4	7	0.6	0	0	0	0	0	0	0	0
9/3/2024 21:53	59101	WALK_T2	0	1	1	0	0	0	0.94	0.96	0	0	0	0	0	0
9/3/2024 21:53	55101	WERT_T1	0	0	0	0	0	0	-1.02	-0.8	2	1	-1	1500	900	-600
9/3/2024 21:54	54202	PENN_T2	28	2	-26	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
9/3/2024 21:54	54206	PENN_T2	56	38	-18	0.22	0.12	-0.1	0.05	0	0	0	0	0	0	0
9/3/2024 21:54	54204	PENN_T2	3	2	-1	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
9/3/2024 21:54	53501	EVIL_T2	1	2	1	0.7	0.65	-0.05	-0.01	-0.01	1	1	0	600	600	0
9/3/2024 21:54	57401	SPAN_T1	333	99	-234	0.37	0.19	-0.18	-0.38	-0.87	0	1	1	0	600	600
9/3/2024 21:54	57403	SPAN_T1	70	34	-36	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
9/3/2024 21:55	53901	HALI_T2	4	5	1	0.58	0.64	0.06	0	0	0	0	0	0	0	0
9/3/2024 21:55	55002	NEWP_T1	6	6	0	1.17	1.03	-0.14	0	0	0	0	0	0	0	0
9/3/2024 21:55	53902	HALI_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
9/3/2024 21:55	53903	HALI_T2	2	2	0	1.7	1.75	0.05	-0.19	-0.14	0	0	0	0	0	0
9/3/2024 21:55	55001	NEWP_T1	37	1	-36	0.19	0.1	-0.09	-0.23	-0.15	0	0	0	0	0	0
9/3/2024 21:56	20201	JERM_T1	0	0	0	0	0	0	-0.97	-0.95	2	2	0	2400	2400	0
9/3/2024 21:59	51204	MTON_T2	0	0	0	0	0	0	-1.37	-1.38	2	2	0	1500	1500	0
9/3/2024 22:03	65206	PRIN_T4	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/3/2024 22:03	65207	PRIN_T4	8	1	-7	0.25	1.3	1.05	0	0	1	1	0	1200	1200	0
9/3/2024 22:07	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/3/2024 22:13	60101	COCA_T1	0	0	0	0	0	0	0.29	0.23	0	0	0	0	0	0
9/3/2024 22:16	56501	ROCK_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/3/2024 22:16	56504	ROCK_T2	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
9/3/2024 22:29	28102	TWLA_T2	20	19	-1	0.7	0.74	0.04	0.18	0.17	0	0	0	0	0	0
9/3/2024 22:37	10801	CHHI_T1	0	0	0	0	0	0	-0.82	-0.85	1	1	0	900	900	0
9/3/2024 22:58	20403	ASHF_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
9/3/2024 22:58	20401	ASHF_T2	2	3	1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
9/3/2024 23:25	65901	SAXR_T2	1	1	0	7.7	8.1	0.4	-0.83	-0.91	1	1	0	600	600	0
9/4/2024 0:32	53901	HALI_T2	4	2	-2	0.6	0.8	0.2	-1.38	-1.38	0	0	0	0	0	0
9/4/2024 0:32	53903	HALI_T2	2	2	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
9/4/2024 0:32	53902	HALI_T2	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
9/4/2024 1:14	58202	NEWV_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
9/4/2024 5:06	28403	HART_T2	0	0	0	0	0	0	-0.86	-0.86	1	1	0	900	900	0
9/4/2024 7:07	15202	SFAR_T1	0	0	0	0	0	0	-0.66	-0.65	1	1	0	1200	1200	0
9/4/2024 7:20	55002	NEWP_T1	4	5	1	0.78	0.82	0.04	-0.29	-0.28	0	0	0	0	0	0
9/4/2024 7:24	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/4/2024 7:25	61101	BERK_T5	0	0	0	0	0	0	-0.5	-0.48	0	0	0	0	0	0
9/4/2024 7:26	21501	CEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 7:27	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/4/2024 7:28	29402	BELT_T1	1	1	0	8.5	8.5	0	0	0	0	0	0	0	0	0
9/4/2024 7:28	29401	BELT_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
9/4/2024 7:30	51602	DUKE_T2	0	0	0	0	0	0	-1.61	-1.6	1	1	0	1200	1200	0
9/4/2024 7:32	64904	MILL_T1	0	0	0	0	0	0	-0.59	0.48	0	0	0	0	0	0
9/4/2024 7:33	55002	NEWP_T1	4	6	2	0.95	0.82	-0.13	-0.28	-0.25	0	0	0	0	0	0
9/4/2024 7:37	40502	CRES_T2	0	11	11	0	0.12	0.12	-1.34	-1.58	0	0	0	0	0	0
9/4/2024 7:37	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 7:37	57402	SPAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/4/2024 7:37	11903	ETEX_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
9/4/2024 7:38	45901	AUBU_T1	0	0	0	0	0	0	0.6	0.64	0	0	0	0	0	0
9/4/2024 7:38	40504	CRES_T1	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
9/4/2024 7:38	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 7:39	40504	CRES_T1	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
9/4/2024 7:39	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 7:40	40502	CRES_T2	0	11	11	0	0.12	0.12	-0.45	-0.53	0	0	0	0	0	0
9/4/2024 7:40	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/4/2024 7:40	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 7:41	10102	ALLE_T2	1	1	0	6.4	6.6	0.2	0	0	0	0	0	0	0	0
9/4/2024 7:41	10206	ALLE_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/4/2024 7:41	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 7:42	23203	HIRU_T2	0	0	0	0	0	0	0.02	-0.06	0	0	0	0	0	0
9/4/2024 7:42	23201	HIRU_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 7:43	20102	AVOC_T1	0	0	0	0	0	0	-0.38	-0.34	0	0	0	0	0	0
9/4/2024 7:44	53601	DALM_T2	1	1	0	0.6	0.7	0.1	0.17	0.14	1	1	0	900	900	0
9/4/2024 7:47	52002	LING_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/4/2024 7:47	52004	LING_T2	2	3	1	6.05	4.4	-1.65	0.15	0.15	0	0	0	0	0	0
9/4/2024 7:47	52006	LING_T2	2	2	0	0.35	0.7	0.35	0	0	0	0	0	0	0	0
9/4/2024 7:53	43103	SMIL_T2	21	21	0	0.83	0.82	-0.01	0	0	0	0	0	0	0	0
9/4/2024 7:53	43102	SMIL_T2	8	8	0	0.81	0.76	-0.05	-0.84	-0.83	1	1	0	600	600	0
9/4/2024 7:53	65601	QVIL_T2	0	0	0	0	0	0	-1.18	-1.11	1	1	0	900	900	0
9/4/2024 7:53	44201	POIN_T1	0	1	1	0	0	0	-0.84	-0.4	2	2	0	2100	2100	0
9/4/2024 7:53	43105	SMIL_T2	13	10	-3	0.19	0.15	-0.04	0	0	0	0	0	0	0	0
9/4/2024 7:54	67503	WEWI_T2	1	1	0	9.1	9.1	0	-0.58	-0.54	0	0	0	0	0	0
9/4/2024 7:54	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 7:55	67501	WEWI_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/4/2024 7:55	67505	WEWI_T1	0	1	1	0	0	0	-0.25	-0.25	1	1	0	900	900	0
9/4/2024 7:56	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 7:56	67503	WEWI_T2	1	1	0	9.1	9.1	0	-0.29	-0.27	0	0	0	0	0	0
9/4/2024 7:58	16004	DORN_T1	0	0	0	0	0	0	0.22	0.18	0	0	0	0	0	0
9/4/2024 7:59	41902	REED_T1	0	0	0	0	0	0	1.07	1.04	0	0	0	0	0	0
9/4/2024 7:59	50103	HARR_T3	2	2	0	0.45	0.15	-0.3	0	0	0	0	0	0	0	0
9/4/2024 7:59	50201	HARR_T3	1	2	1	0.8	0.7	-0.1	-0.52	-0.56	1	1	0	1200	1200	0
9/4/2024 7:59	50107	HARR_T3	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
9/4/2024 7:59	50102	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 7:59	41901	REED_T1	9	8	-1	0.26	0.21	-0.05	0	0	0	0	0	0	0	0
9/4/2024 7:59	50105	HARR_T3	6	6	0	6.45	6	-0.45	0	0	0	0	0	0	0	0
9/4/2024 8:00	12006	HATF_T1	1	0	-1	9.2	0	-9.2	0.58	0.65	1	1	0	1200	1200	0
9/4/2024 8:00	50107	HARR_T3	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
9/4/2024 8:00	50103	HARR_T3	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/4/2024 8:00	50102	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 8:00	16004	DORN_T1	0	0	0	0	0	0	0.22	0.18	0	0	0	0	0	0
9/4/2024 8:00	50201	HARR_T3	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
9/4/2024 8:00	50105	HARR_T3	6	7	1	6.3	5.97	-0.33	0	0	0	0	0	0	0	0
9/4/2024 8:06	43801	SWIL_T1	5	2	-3	1.08	4.8	3.72	0	0	0	0	0	0	0	0
9/4/2024 8:06	43802	SWIL_T1	0	0	0	0	0	0	-0.07	-0.09	1	1	0	600	600	0
9/4/2024 8:07	15203	SFAR_T2	173	228	55	0.27	0.54	0.27	4.06	4.01	0	0	0	0	0	0
9/4/2024 8:07	15204	SFAR_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
9/4/2024 8:08	43802	SWIL_T1	0	0	0	0	0	0	-0.07	-0.09	1	1	0	600	600	0
9/4/2024 8:08	47101	MARL_T1	0	0	0	0	0	0	-0.38	-0.26	0	0	0	0	0	0
9/4/2024 8:08	15203	SFAR_T2	173	228	55	0.27	0.54	0.27	-1.35	-1.34	0	0	0	0	0	0
9/4/2024 8:08	43801	SWIL_T1	5	2	-3	1.08	4.8	3.72	0	0	0	0	0	0	0	0
9/4/2024 8:09	57104	SPHI_T2	1	1	0	8.8	0.8	-8	-0.11	0.51	0	0	0	0	0	0
9/4/2024 8:09	57005	WHHI_T2	0	73	73	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 8:09	57006	WHHI_T2	1	24	23	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
9/4/2024 8:09	57101	SPHI_T2	6	6	0	1.1	1.17	0.07	0.29	0.28	0	0	0	0	0	0
9/4/2024 8:09	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.69	0.58	2	2	0	1800	1800	0
9/4/2024 8:09	57003	WHHI_T2	0	10	10	0	0.13	0.13	0	0	0	0	0	0	0	0
9/4/2024 8:09	57106	SPHI_T2	3	3	0	0.93	1.23	0.3	0	0	0	0	0	0	0	0
9/4/2024 8:09	57002	WHHI_T2	0	7	7	0	0.14	0.14	-0.12	-0.06	0	0	0	0	0	0
9/4/2024 8:09	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 8:09	57004	WHHI_T2	0	175	175	0	0.14	0.14	0	0	0	0	0	0	0	0
9/4/2024 8:09	59101	WALK_T2	1	1	0	3.7	3.7	0	1.89	2.18	0	0	0	0	0	0
9/4/2024 8:10	57004	WHHI_T2	0	175	175	0	0.14	0.14	0	0	0	0	0	0	0	0
9/4/2024 8:10	51304	WIND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 8:10	57003	WHHI_T2	0	10	10	0	0.13	0.13	0	0	0	0	0	0	0	0
9/4/2024 8:10	57002	WHHI_T2	0	7	7	0	0.14	0.14	-0.12	-0.06	0	0	0	0	0	0
9/4/2024 8:10	51306	WIND_T2	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
9/4/2024 8:10	57005	WHHI_T2	0	73	73	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 8:10	57006	WHHI_T2	1	24	23	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
9/4/2024 8:11	43802	SWIL_T1	0	0	0	0	0	0	-0.07	-0.09	1	1	0	600	600	0
9/4/2024 8:11	43801	SWIL_T1	5	2	-3	1.08	4.8	3.72	0	0	0	0	0	0	0	0
9/4/2024 8:12	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.69	0.58	2	2	0	1800	1800	0
9/4/2024 8:14	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.44	0	0	0	0	0	0
9/4/2024 8:14	22904	HARW_T1	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
9/4/2024 8:14	57505	LAWN_T3	45	70	25	0.15	0.21	0.06	0.48	0.47	0	0	0	0	0	0
9/4/2024 8:15	55508	HERS_T2	2	2	0	1.35	1.5	0.15	-2.56	-2.56	1	1	0	1200	1200	0
9/4/2024 8:16	55508	HERS_T2	2	2	0	1.35	1.5	0.15	0	0	0	0	0	0	0	0
9/4/2024 8:18	50105	HARR_T3	6	6	0	6	6.03	0.03	0	0	0	0	0	0	0	0
9/4/2024 8:18	50202	HARR_T3	0	0	0	0	0	0	-0.34	-0.38	0	0	0	0	0	0
9/4/2024 8:18	50107	HARR_T3	1	1	0	5.8	6.2	0.4	0	0	0	0	0	0	0	0
9/4/2024 8:18	50201	HARR_T3	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
9/4/2024 8:18	50103	HARR_T3	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/4/2024 8:18	50102	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 8:19	51204	MTON_T2	0	0	0	0	0	0	-1.38	-1.37	2	2	0	1500	1500	0
9/4/2024 8:19	66502	SMAN_T2	0	1	1	0	0.3	0.3	0.27	0.3	0	0	0	0	0	0
9/4/2024 8:19	66504	SMAN_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
9/4/2024 8:21	13103	NHAM_T2	0	0	0	0	0	0	-1.65	-1.7	1	1	0	600	600	0
9/4/2024 8:22	56501	ROCK_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
9/4/2024 8:22	59202	THOM_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
9/4/2024 8:22	56504	ROCK_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
9/4/2024 8:23	14402	SSLA_T1	5	2	-3	0.12	0.15	0.03	0	0	0	0	0	0	0	0
9/4/2024 8:23	14802	TREI_T2	2	3	1	0.1	0.13	0.03	0.41	0.45	0	0	0	0	0	0
9/4/2024 8:23	14801	TREI_T2	3	3	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/4/2024 8:23	14404	SSLA_T1	8	5	-3	0.18	0.22	0.04	-0.13	-0.1	0	0	0	0	0	0
9/4/2024 8:23	14401	SSLA_T1	2	2	0	0.2	0.2	0	-0.54	-0.53	0	0	0	0	0	0
9/4/2024 8:24	66502	SMAN_T2	0	1	1	0	0.3	0.3	0.3	0.32	0	0	0	0	0	0
9/4/2024 8:25	46206	DANV_T2	1	3	2	0.6	0.27	-0.33	2.51	2.64	1	1	0	1200	1200	0
9/4/2024 8:25	45901	AUBU_T1	0	0	0	0	0	0	0.34	0.27	0	0	0	0	0	0
9/4/2024 8:25	26301	OLFO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 8:25	63501	HEID_T8K1-2	33	39	6	0.47	0.18	-0.29	0.17	0.08	3	3	0	2700	2700	0
9/4/2024 8:25	46203	DANV_T2	1	1	0	7.4	7.8	0.4	0	0	0	0	0	0	0	0
9/4/2024 8:26	44801	EDAN_T2	141	196	55	0.47	0.73	0.26	-1.67	-1.66	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/4/2024 8:26	51306	WIND_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
9/4/2024 8:27	62105	ELAN_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
9/4/2024 8:27	44801	EDAN_T2	141	196	55	0.47	0.73	0.26	-1.67	-1.66	0	0	0	0	0	0
9/4/2024 8:28	59202	THOM_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
9/4/2024 8:29	55508	HERS_T2	2	2	0	1.35	1.5	0.15	-2.56	-2.53	1	1	0	1200	1200	0
9/4/2024 8:33	15603	NSTR_T2	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
9/4/2024 8:33	15601	NSTR_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/4/2024 8:34	64704	LITI_T1	0	0	0	0	0	0	0.6	-0.03	0	1	1	0	600	600
9/4/2024 8:35	46301	ROHR_T1	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
9/4/2024 8:35	46302	ROHR_T1	4	4	0	1.18	1.55	0.37	0.08	0.11	0	0	0	0	0	0
9/4/2024 8:35	15604	NSTR_T1	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
9/4/2024 8:36	46301	ROHR_T1	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
9/4/2024 8:36	46302	ROHR_T1	4	4	0	1.18	1.55	0.37	0.11	0.12	0	0	0	0	0	0
9/4/2024 8:37	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 8:37	67605	WARW_T1	13	15	2	0.54	0.54	0	0	0	0	0	0	0	0	0
9/4/2024 8:37	67703	WERN_T2	0	0	0	0	0	0	-0.25	-0.25	1	1	0	900	900	0
9/4/2024 8:38	15701	TANN_T1	1	1	0	4.3	4.5	0.2	0	0	0	0	0	0	0	0
9/4/2024 8:38	15704	TANN_T1	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
9/4/2024 8:39	13704	SCHN_T2	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
9/4/2024 8:40	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 8:40	46001	BERW_T1	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
9/4/2024 8:41	67502	WEWI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/4/2024 8:41	67503	WEWI_T2	1	1	0	9	9.2	0.2	-0.28	-0.27	0	0	0	0	0	0
9/4/2024 8:42	46001	BERW_T1	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
9/4/2024 8:43	61801	EELI_T2	1	1	0	0.2	0.2	0	-0.74	-0.7	1	1	0	600	600	0
9/4/2024 8:44	45801	HEGI_T1	0	0	0	0	0	0	-0.07	-0.07	1	1	0	900	900	0
9/4/2024 8:46	45801	HEGI_T1	0	0	0	0	0	0	-0.07	-0.07	1	1	0	900	900	0
9/4/2024 8:47	13502	MCMI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/4/2024 8:47	13501	MCMI_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
9/4/2024 8:48	64904	MILL_T1	0	0	0	0	0	0	0.43	0.39	0	0	0	0	0	0
9/4/2024 8:49	56501	ROCK_T2	2	3	1	1.1	1.05	-0.05	-0.02	0	0	0	0	0	0	0
9/4/2024 8:49	48301	ORWI_T1	2	2	0	5.4	4	-1.4	-1.11	-0.96	2	2	0	1800	1800	0
9/4/2024 8:50	65004	NEFF_T2	0	1	1	0	0.2	0.2	-0.53	-0.52	0	0	0	0	0	0
9/4/2024 8:51	15703	TANN_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
9/4/2024 8:51	13503	MCMI_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
9/4/2024 8:51	56501	ROCK_T2	2	3	1	1.1	1.05	-0.05	-0.02	0	0	0	0	0	0	0
9/4/2024 8:51	15702	TANN_T2	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
9/4/2024 8:54	15203	SFAR_T2	188	185	-3	0.32	0.35	0.03	-1.29	-1.29	0	0	0	0	0	0
9/4/2024 8:55	15203	SFAR_T2	188	185	-3	0.32	0.35	0.03	-1.29	-1.29	0	0	0	0	0	0
9/4/2024 8:56	62607	ENGL_T1	1	1	0	0.4	0.6	0.2	-1.1	-1.09	1	1	0	300	300	0
9/4/2024 8:56	62605	ENGL_T1	0	1	1	0	0.1	0.1	-1.5	-1.49	0	0	0	0	0	0
9/4/2024 8:56	60101	COCA_T1	0	0	0	0	0	0	0.27	0.22	0	0	0	0	0	0
9/4/2024 8:57	60101	COCA_T1	0	0	0	0	0	0	0.27	0.22	0	0	0	0	0	0
9/4/2024 9:01	11507	FREE_T2	0	1	1	0	0	0	0.87	0.86	0	0	0	0	0	0
9/4/2024 9:01	22701	MINO_T1	0	0	0	0	0	0	-1.06	-1.05	1	1	0	600	600	0
9/4/2024 9:02	13503	MCMI_T2	0	1	1	0	0.5	0.5	-0.01	-0.01	0	0	0	0	0	0
9/4/2024 9:02	41902	REED_T1	0	0	0	0	0	0	1.06	1.09	0	0	0	0	0	0
9/4/2024 9:02	12601	MACA_T1	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
9/4/2024 9:04	17002	RIRO_T2	3	28	25	0.37	0.21	-0.16	0.51	0.57	0	0	0	0	0	0
9/4/2024 9:05	64101	REFR_T1	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
9/4/2024 9:06	55002	NEWP_T1	7	10	3	0.6	0.9	0.3	0	0	0	0	0	0	0	0
9/4/2024 9:06	55001	NEWP_T1	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
9/4/2024 9:06	64101	REFR_T1	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
9/4/2024 9:07	15703	TANN_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
9/4/2024 9:07	66502	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/4/2024 9:07	64101	REFR_T1	0	0	0	0	0	0	0.14	0.23	0	0	0	0	0	0
9/4/2024 9:07	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
9/4/2024 9:07	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.36	0	0	0	0	0	0
9/4/2024 9:08	64101	REFR_T1	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
9/4/2024 9:08	66503	SMAN_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
9/4/2024 9:08	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.36	0	0	0	0	0	0
9/4/2024 9:08	66502	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/4/2024 9:08	20401	ASHF_T2	4	5	1	0.43	0.32	-0.11	0	0	0	0	0	0	0	0
9/4/2024 9:08	20403	ASHF_T2	18	4	-14	0.22	0.5	0.28	0.62	0.61	0	0	0	0	0	0
9/4/2024 9:09	15203	SFAR_T2	177	176	-1	0.31	0.36	0.05	0	0	0	0	0	0	0	0
9/4/2024 9:09	51304	WIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 9:09	15204	SFAR_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
9/4/2024 9:09	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 9:11	20401	ASHF_T2	4	5	1	0.43	0.32	-0.11	0	0	0	0	0	0	0	0
9/4/2024 9:11	20403	ASHF_T2	18	4	-14	0.22	0.5	0.28	0.62	0.61	0	0	0	0	0	0
9/4/2024 9:12	61502	EPET_T1	0	0	0	0	0	0	-0.78	-0.88	0	0	0	0	0	0
9/4/2024 9:12	66502	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/4/2024 9:12	66504	SMAN_T2	0	0	0	0	0	0	-0.82	-0.73	0	0	0	0	0	0
9/4/2024 9:12	11904	ETEX_T2	0	1	1	0	0.8	0.8	0.43	0.43	0	0	0	0	0	0
9/4/2024 9:13	11904	ETEX_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/4/2024 9:13	66503	SMAN_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
9/4/2024 9:13	66502	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/4/2024 9:16	13503	MCMI_T2	1	1	0	0.2	0.9	0.7	-0.01	-0.01	0	0	0	0	0	0
9/4/2024 9:17	40101	HUNT_T2	1	1	0	0.4	0.3	-0.1	-0.2	-0.17	0	0	0	0	0	0
9/4/2024 9:17	45802	HEGI_T2	7	3	-4	0.24	0.3	0.06	1.47	1.43	0	0	0	0	0	0
9/4/2024 9:18	41902	REED_T1	0	0	0	0	0	0	1.09	1.08	0	0	0	0	0	0
9/4/2024 9:18	40101	HUNT_T2	1	1	0	0.4	0.3	-0.1	-0.2	-0.17	0	0	0	0	0	0
9/4/2024 9:18	43201	MVIL_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
9/4/2024 9:19	45802	HEGI_T2	7	3	-4	0.24	0.3	0.06	1.47	1.43	0	0	0	0	0	0
9/4/2024 9:20	67203	TEHI_T1	0	0	0	0	0	0	2.32	2.77	3	3	0	2100	2100	0
9/4/2024 9:22	43102	SMIL_T2	8	8	0	0.81	0.76	-0.05	0	0	0	0	0	0	0	0
9/4/2024 9:22	43101	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 9:22	43105	SMIL_T2	13	11	-2	0.26	0.27	0.01	0	0	0	0	0	0	0	0
9/4/2024 9:22	42201	SHEN_T2	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
9/4/2024 9:22	43103	SMIL_T2	22	22	0	1.01	0.96	-0.05	0	0	0	0	0	0	0	0
9/4/2024 9:22	43104	SMIL_T2	1	1	0	0.2	0.2	0	-0.79	-0.76	1	1	0	300	300	0
9/4/2024 9:24	43102	SMIL_T2	8	8	0	0.81	0.76	-0.05	0	0	0	0	0	0	0	0
9/4/2024 9:24	43101	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 9:24	43104	SMIL_T2	1	1	0	0.2	0.2	0	-1.58	-1.52	2	2	0	600	600	0
9/4/2024 9:24	43105	SMIL_T2	13	11	-2	0.26	0.27	0.01	0	0	0	0	0	0	0	0
9/4/2024 9:24	43103	SMIL_T2	22	22	0	1.01	0.96	-0.05	0	0	0	0	0	0	0	0
9/4/2024 9:25	43104	SMIL_T2	1	1	0	0.2	0.2	0	-0.79	-0.76	1	1	0	300	300	0
9/4/2024 9:25	43101	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 9:25	43103	SMIL_T2	22	22	0	1.01	0.96	-0.05	0	0	0	0	0	0	0	0
9/4/2024 9:25	43102	SMIL_T2	8	8	0	0.81	0.76	-0.05	0	0	0	0	0	0	0	0
9/4/2024 9:25	43105	SMIL_T2	13	11	-2	0.26	0.27	0.01	0	0	0	0	0	0	0	0
9/4/2024 9:27	53501	EVIL_T2	2	2	0	0.65	0.6	-0.05	-0.01	-0.01	1	1	0	600	600	0
9/4/2024 9:27	13704	SCHN_T2	0	1	1	0	0.2	0.2	-0.57	-0.59	0	0	0	0	0	0
9/4/2024 9:28	64602	LEOL_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
9/4/2024 9:28	53502	EVIL_T2	0	0	0	0	0	0	0.82	0.87	1	1	0	600	600	0
9/4/2024 9:28	45901	AUBU_T1	70	50	-20	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
9/4/2024 9:28	45902	AUBU_T1	5	5	0	0.34	0.44	0.1	0.21	0.19	0	0	0	0	0	0
9/4/2024 9:28	46001	BERW_T1	0	0	0	0	0	0	1.02	1.13	0	0	0	0	0	0
9/4/2024 9:28	46005	BERW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 9:28	22805	HAUT_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
9/4/2024 9:28	53501	EVIL_T2	2	2	0	0.65	0.6	-0.05	-0.01	-0.01	2	2	0	1200	1200	0
9/4/2024 9:29	20403	ASHF_T2	4	1	-3	0.4	1	0.6	0.61	0.68	0	0	0	0	0	0
9/4/2024 9:29	20401	ASHF_T2	5	4	-1	0.26	0.38	0.12	0	0	0	0	0	0	0	0
9/4/2024 9:31	53501	EVIL_T2	2	2	0	0.6	1	0.4	-0.01	-0.01	1	1	0	600	600	0
9/4/2024 9:32	40601	PIGR_T1	16	33	17	0.21	0.25	0.04	0	0	0	0	0	0	0	0
9/4/2024 9:32	48302	ORWI_T2	0	2	2	0	0.35	0.35	0.06	-0.55	0	0	0	0	0	0
9/4/2024 9:32	53501	EVIL_T2	2	2	0	0.6	1	0.4	-0.01	-0.01	1	1	0	600	600	0
9/4/2024 9:32	40603	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 9:32	40602	PIGR_T1	1	1	0	1.3	1.5	0.2	-0.55	-0.56	1	1	0	600	600	0
9/4/2024 9:33	41902	REED_T1	0	0	0	0	0	0	1.08	1.08	0	0	0	0	0	0
9/4/2024 9:34	41902	REED_T1	0	0	0	0	0	0	1.08	1.08	0	0	0	0	0	0
9/4/2024 9:35	57401	SPAN_T1	2	2	0	0.7	1.1	0.4	-0.24	-0.16	1	1	0	600	600	0
9/4/2024 9:36	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.39	-0.4	0	0	0	0	0	0
9/4/2024 9:36	15703	TANN_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
9/4/2024 9:38	67605	WARW_T1	12	13	1	0.51	0.39	-0.12	-1.08	-1.04	0	0	0	0	0	0
9/4/2024 9:39	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 9:39	59101	WALK_T2	2	1	-1	1.05	1.6	0.55	1.33	1.79	0	0	0	0	0	0
9/4/2024 9:39	57401	SPAN_T1	2	2	0	0.7	1.1	0.4	-0.31	-0.29	2	2	0	1200	1200	0
9/4/2024 9:39	67605	WARW_T1	12	13	1	0.51	0.39	-0.12	-2.16	-2.08	0	0	0	0	0	0
9/4/2024 9:39	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/4/2024 9:39	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 9:39	67502	WEWI_T2	2	3	1	0.45	0.77	0.32	0	0	0	0	0	0	0	0
9/4/2024 9:39	67503	WEWI_T2	1	2	1	8.9	4.6	-4.3	-0.24	-0.22	0	0	0	0	0	0
9/4/2024 9:40	57401	SPAN_T1	2	2	0	0.7	1.1	0.4	-0.16	-0.14	1	1	0	600	600	0
9/4/2024 9:48	64802	MONE_T2	3	4	1	0.27	0.43	0.16	0.32	0.31	0	0	0	0	0	0
9/4/2024 9:48	64801	MONE_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/4/2024 9:49	48302	ORWI_T2	2	1	-1	0.35	0.4	0.05	-0.55	-0.53	0	0	0	0	0	0
9/4/2024 9:53	67503	WEWI_T2	2	1	-1	4.6	8.8	4.2	-0.22	-0.22	0	0	0	0	0	0
9/4/2024 9:53	67502	WEWI_T2	2	3	1	0.95	0.83	-0.12	0	0	0	0	0	0	0	0
9/4/2024 9:54	59101	WALK_T2	1	1	0	1.6	3.1	1.5	1.79	2.12	0	0	0	0	0	0
9/4/2024 9:55	55101	WERT_T1	0	0	0	0	0	0	1.53	1.63	4	4	0	3000	3000	0
9/4/2024 9:55	64305	LINC_T1	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
9/4/2024 9:55	59101	WALK_T2	1	1	0	1.6	3.1	1.5	1.79	2.12	0	0	0	0	0	0
9/4/2024 9:55	67502	WEWI_T2	2	3	1	0.95	0.83	-0.12	0	0	0	0	0	0	0	0
9/4/2024 9:55	67503	WEWI_T2	2	1	-1	4.6	8.8	4.2	-0.22	-0.22	0	0	0	0	0	0
9/4/2024 9:56	57401	SPAN_T1	2	2	0	1.1	0.9	-0.2	-0.14	-0.35	1	1	0	600	600	0
9/4/2024 9:56	67503	WEWI_T2	2	1	-1	4.6	8.8	4.2	0	0	0	0	0	0	0	0
9/4/2024 9:56	67502	WEWI_T2	2	3	1	0.95	0.83	-0.12	-0.23	-0.2	0	0	0	0	0	0
9/4/2024 9:58	62605	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/4/2024 9:58	62607	ENGL_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/4/2024 9:58	62601	ENGL_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
9/4/2024 9:59	45901	AUBU_T1	45	23	-22	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
9/4/2024 9:59	45902	AUBU_T1	4	2	-2	0.5	1	0.5	0.38	0.33	0	0	0	0	0	0
9/4/2024 9:59	20601	GRWO_T2	6	6	0	0.42	0.15	-0.27	1.23	1.23	0	0	0	0	0	0
9/4/2024 10:00	43105	SMIL_T2	3	11	8	0.47	0.33	-0.14	0	0	0	0	0	0	0	0
9/4/2024 10:00	40505	CRES_T1	0	1	1	0	0.2	0.2	0.51	0.53	0	0	0	0	0	0
9/4/2024 10:00	11104	EGYP_T1	0	0	0	0	0	0	1.22	1.23	0	0	0	0	0	0
9/4/2024 10:00	56504	ROCK_T2	0	1	1	0	0.1	0.1	-0.08	-0.08	0	0	0	0	0	0
9/4/2024 10:00	43102	SMIL_T2	7	7	0	0.69	0.84	0.15	0	0	0	0	0	0	0	0
9/4/2024 10:00	56501	ROCK_T2	3	2	-1	1.07	0.7	-0.37	0.03	0.05	0	0	0	0	0	0
9/4/2024 10:00	43104	SMIL_T2	0	3	3	0	0.2	0.2	-0.75	-0.76	1	1	0	300	300	0
9/4/2024 10:00	65005	NEFF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 10:00	52401	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/4/2024 10:00	62607	ENGL_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/4/2024 10:00	65003	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 10:00	15604	NSTR_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
9/4/2024 10:00	51304	WIND_T2	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
9/4/2024 10:00	10503	CRAC_T1	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
9/4/2024 10:00	43801	SWIL_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
9/4/2024 10:00	46302	ROHR_T1	4	4	0	0.95	1.83	0.88	0.26	0.31	0	0	0	0	0	0
9/4/2024 10:00	43802	SWIL_T1	0	0	0	0	0	0	-0.12	-0.04	2	2	0	1200	1200	0
9/4/2024 10:00	62604	ENGL_T1	0	0	0	0	0	0	-0.67	-0.75	1	1	0	600	600	0
9/4/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
9/4/2024 10:00	23102	MOSC_T2	0	0	0	0	0	0	0.64	0.83	2	2	0	1800	1800	0
9/4/2024 10:00	51306	WIND_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
9/4/2024 10:00	67502	WEWI_T2	3	3	0	0.77	0.87	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:00	67503	WEWI_T2	1	1	0	8.8	8.8	0	-0.22	-0.22	0	0	0	0	0	0
9/4/2024 10:00	43103	SMIL_T2	20	24	4	0.78	1	0.22	0	0	0	0	0	0	0	0
9/4/2024 10:00	52403	GRPA_T2	108	118	10	1.58	1.37	-0.21	-0.07	-0.12	0	0	0	0	0	0
9/4/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	-0.56	-0.33	0	0	0	0	0	0
9/4/2024 10:00	52402	GRPA_T2	8	9	1	0.23	0.27	0.04	0	0	0	0	0	0	0	0
9/4/2024 10:00	20601	GRWO_T2	6	2	-4	0.35	0	-0.35	1.23	1.23	0	0	0	0	0	0
9/4/2024 10:00	43101	SMIL_T2	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/4/2024 10:00	65004	NEFF_T2	1	2	1	0.2	0.15	-0.05	-0.5	-0.49	0	0	0	0	0	0
9/4/2024 10:00	48302	ORWI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/4/2024 10:00	46301	ROHR_T1	1	1	0	5.3	6.9	1.6	0	0	0	0	0	0	0	0
9/4/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.95	-0.9	0	0	0	0	0	0
9/4/2024 10:04	51702	OBER_T1	2	4	2	3.4	1.88	-1.52	-0.84	-0.87	1	1	0	600	600	0
9/4/2024 10:05	51702	OBER_T1	2	4	2	3.4	1.88	-1.52	-0.84	-0.87	1	1	0	600	600	0
9/4/2024 10:06	15604	NSTR_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
9/4/2024 10:06	40601	PIGR_T1	18	87	69	0.27	0.27	0	0	0	0	0	0	0	0	0
9/4/2024 10:06	40602	PIGR_T1	1	1	0	1.5	0.5	-1	0	0	0	0	0	0	0	0
9/4/2024 10:06	40603	PIGR_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/4/2024 10:07	16402	MOPO_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
9/4/2024 10:07	14201	EALL_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
9/4/2024 10:08	15703	TANN_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:08	56501	ROCK_T2	3	2	-1	1.07	0.7	-0.37	0.09	0.05	0	0	0	0	0	0
9/4/2024 10:08	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:08	15702	TANN_T2	1	1	0	0.1	0.1	0	-0.38	-0.28	0	0	0	0	0	0
9/4/2024 10:09	43802	SWIL_T1	0	0	0	0	0	0	-0.02	-0.04	1	1	0	600	600	0
9/4/2024 10:09	15204	SFAR_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/4/2024 10:09	55002	NEWP_T1	8	10	2	0.85	0.94	0.09	0	0	0	0	0	0	0	0
9/4/2024 10:09	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 10:09	43801	SWIL_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
9/4/2024 10:09	20403	ASHF_T2	1	4	3	0.8	0.5	-0.3	0.74	0.75	0	0	0	0	0	0
9/4/2024 10:09	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:09	29402	BELT_T1	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0	0
9/4/2024 10:09	42601	TUSC_T1	0	0	0	0	0	0	0.23	0.21	2	2	0	1800	1800	0
9/4/2024 10:09	56501	ROCK_T2	3	2	-1	1.07	0.7	-0.37	0.14	0.08	0	0	0	0	0	0
9/4/2024 10:09	55001	NEWP_T1	0	0	0	0	0	0	-0.01	0.04	0	0	0	0	0	0
9/4/2024 10:09	15203	SFAR_T2	111	37	-74	0.22	0.21	-0.01	-4.66	-4.54	0	0	0	0	0	0
9/4/2024 10:09	20401	ASHF_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
9/4/2024 10:10	66501	SMAN_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
9/4/2024 10:10	43105	SMIL_T2	3	11	8	0.47	0.33	-0.14	0	0	0	0	0	0	0	0
9/4/2024 10:10	59101	WALK_T2	1	1	0	3.1	3.7	0.6	6.35	5.71	0	3	3	0	1800	1800
9/4/2024 10:10	15204	SFAR_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/4/2024 10:10	66504	SMAN_T2	1	1	0	0.1	0.5	0.4	-0.76	-0.64	0	0	0	0	0	0
9/4/2024 10:10	15703	TANN_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:10	29402	BELT_T1	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0	0
9/4/2024 10:10	43103	SMIL_T2	20	24	4	0.78	1	0.22	0	0	0	0	0	0	0	0
9/4/2024 10:10	66502	SMAN_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/4/2024 10:10	63501	HEID_TBK1-2	25	35	10	0.2	0.35	0.15	0.2	0.56	2	2	0	1800	1800	0
9/4/2024 10:10	15702	TANN_T2	1	1	0	0.1	0.1	0	-0.38	-0.28	0	0	0	0	0	0
9/4/2024 10:10	15203	SFAR_T2	111	37	-74	0.22	0.21	-0.01	-1.16	-1.13	0	0	0	0	0	0
9/4/2024 10:10	42601	TUSC_T1	0	0	0	0	0	0	0.23	0.21	2	2	0	1800	1800	0
9/4/2024 10:10	43102	SMIL_T2	7	7	0	0.69	0.84	0.15	0	0	0	0	0	0	0	0
9/4/2024 10:10	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 10:10	43101	SMIL_T2	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/4/2024 10:10	12807	MICK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/4/2024 10:10	20403	ASHF_T2	1	4	3	0.8	0.5	-0.3	0.74	0.75	0	0	0	0	0	0
9/4/2024 10:10	43104	SMIL_T2	0	3	3	0	0.2	0.2	-0.76	-0.75	1	1	0	300	300	0
9/4/2024 10:10	12801	MICK_T1	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
9/4/2024 10:10	20401	ASHF_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
9/4/2024 10:11	45901	AUBU_T1	21	23	2	0.2	0.2	0	0.71	0.73	0	0	0	0	0	0
9/4/2024 10:11	45902	AUBU_T1	2	2	0	0.95	1	0.05	0	0	0	0	0	0	0	0
9/4/2024 10:11	20401	ASHF_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
9/4/2024 10:11	59101	WALK_T2	1	1	0	3.1	3.7	0.6	2.12	1.9	0	1	1	0	600	600
9/4/2024 10:11	66502	SMAN_T2	0	1	1	0	0.8	0.8	0.34	0.27	0	0	0	0	0	0
9/4/2024 10:11	66504	SMAN_T2	1	1	0	0.1	0.5	0.4	-0.25	-0.21	0	0	0	0	0	0
9/4/2024 10:11	53601	DALM_T2	1	1	0	1.2	0.8	-0.4	0.18	0.09	1	1	0	900	900	0
9/4/2024 10:11	63501	HEID_TBK1-2	25	35	10	0.2	0.35	0.15	0.1	0.28	1	1	0	900	900	0
9/4/2024 10:11	66501	SMAN_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
9/4/2024 10:11	20403	ASHF_T2	1	4	3	0.8	0.5	-0.3	0.74	0.75	0	0	0	0	0	0
9/4/2024 10:12	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 10:12	29402	BELT_T1	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0	0
9/4/2024 10:12	51304	WIND_T2	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
9/4/2024 10:13	53501	EVIL_T2	2	7	5	0.75	0.46	-0.29	-0.01	-0.01	2	2	0	800	800	0
9/4/2024 10:13	15702	TANN_T2	1	1	0	0.1	0.1	0	0.38	-0.28	0	0	0	0	0	0
9/4/2024 10:13	15703	TANN_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:14	45901	AUBU_T1	21	23	2	0.2	0.2	0	0	0	0	0	0	0	0	0
9/4/2024 10:14	45902	AUBU_T1	2	2	0	0.95	1	0.05	0.16	0.2	0	0	0	0	0	0
9/4/2024 10:15	54505	ENOL_T2	1	2	1	0.4	0.75	0.35	0	0	0	0	0	0	0	0
9/4/2024 10:15	46001	BERW_T1	0	0	0	0	0	0	1.11	1.05	0	0	0	0	0	0
9/4/2024 10:15	45901	AUBU_T1	22	26	4	0.19	0.19	0	0.36	0.37	0	0	0	0	0	0
9/4/2024 10:15	54506	ENOL_T2	0	0	0	0	0	0	0.13	0.08	1	1	0	600	600	0
9/4/2024 10:15	45902	AUBU_T1	2	2	0	1	0.95	-0.05	0.49	0.6	0	0	0	0	0	0
9/4/2024 10:15	54502	ENOL_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:15	53501	EVIL_T2	5	3	-2	0.46	0.63	0.17	-0.02	-0.02	6	6	0	2400	2400	0
9/4/2024 10:15	10801	DIHI_T1	0	2	2	0	0.15	0.15	-0.61	-0.63	1	1	0	900	900	0
9/4/2024 10:15	11507	FREE_T2	0	0	0	0	0	0	0.94	0.99	0	0	0	0	0	0
9/4/2024 10:15	54504	ENOL_T2	1	1	0	0.5	1.3	0.8	0	0	0	0	0	0	0	0
9/4/2024 10:16	50201	HARR_T3	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/4/2024 10:16	46504	LOHA_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
9/4/2024 10:16	51304	WIND_T2	1	1	0	0.6	1.3	0.7	0	0	0	0	0	0	0	0
9/4/2024 10:16	41902	REED_T1	0	0	0	0	0	0	1.15	1.09	0	0	0	0	0	0
9/4/2024 10:16	25402	LAHA_T2	0	1	1	0	0.1	0.1	-0.5	-0.47	0	0	0	0	0	0
9/4/2024 10:16	50107	HARR_T3	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:16	51306	WIND_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
9/4/2024 10:16	50105	HARR_T3	6	6	0	6.7	6.62	-0.08	0	0	0	0	0	0	0	0
9/4/2024 10:16	53502	EVIL_T2	0	0	0	0	0	0	0.8	0.53	1	1	0	600	600	0
9/4/2024 10:16	50103	HARR_T3	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
9/4/2024 10:16	52004	LING_T2	4	3	-1	3.18	4.37	1.19	0.82	0.81	0	0	0	0	0	0
9/4/2024 10:16	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
9/4/2024 10:16	52002	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 10:16	46506	LOHA_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
9/4/2024 10:16	25404	LAHA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:16	53501	EVIL_T2	5	3	-2	0.46	0.63	0.17	-0.01	-0.01	2	2	0	800	800	0
9/4/2024 10:17	52004	LING_T2	4	3	-1	3.18	4.37	1.19	0.41	0.4	0	0	0	0	0	0
9/4/2024 10:17	52002	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 10:17	53802	MBRG_T2	0	0	0	0	0	0	0.79	0.65	0	0	0	0	0	0
9/4/2024 10:18	25503	MADI_T1	76	74	-2	0.23	0.21	-0.02	-0.9	-0.94	0	0	0	0	0	0
9/4/2024 10:18	25502	MADI_T1	1	2	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/4/2024 10:18	25501	MADI_T1	4	4	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:20	46506	LOHA_T1	3	3	0	5.77	5.1	-0.67	0	0	0	0	0	0	0	0
9/4/2024 10:20	42201	SHEN_T2	0	0	0	0	0	0	0.49	0.52	0	0	0	0	0	0
9/4/2024 10:20	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
9/4/2024 10:20	66703	STRA_T1	2	4	2	0.45	0.43	-0.02	-0.02	0.04	0	0	0	0	0	0
9/4/2024 10:20	46504	LOHA_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
9/4/2024 10:20	66701	STRA_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
9/4/2024 10:20	64801	MONE_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/4/2024 10:20	63302	GREE_T1	0	0	0	0	0	0	0.74	0.77	0	0	0	0	0	0
9/4/2024 10:20	48302	ORWI_T2	1	1	0	0.2	0.2	0	-1.04	-1.02	0	0	0	0	0	0
9/4/2024 10:20	64802	MONE_T2	4	5	1	0.35	0.38	0.03	0.63	0.65	0	0	0	0	0	0
9/4/2024 10:20	53501	EVIL_T2	5	3	-2	0.46	0.63	0.17	-0.01	-0.01	2	2	0	800	800	0
9/4/2024 10:21	66703	STRA_T1	2	4	2	0.45	0.43	-0.02	0.04	0.14	0	0	0	0	0	0
9/4/2024 10:21	63501	HEID_TBK1-2	33	38	5	0.42	0.43	0.01	0.28	0.24	1	1	0	900	900	0
9/4/2024 10:21	57403	SPAN_T1	0	8	8	0	0.31	0.31	0.02	0.09	0	0	0	0	0	0
9/4/2024 10:21	66701	STRA_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
9/4/2024 10:21	65604	QUIL_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
9/4/2024 10:21	57401	SPAN_T1	2	3	1	0.9	1.03	0.13	-0.7	-0.79	2	2	0	1200	1200	0
9/4/2024 10:22	57403	SPAN_T1	0	8	8	0	0.31	0.31	0	0	0	0	0	0	0	0
9/4/2024 10:22	57401	SPAN_T1	2	3	1	0.9	1.03	0.13	-0.79	0.66	2	0	-2	1200	0	-1200
9/4/2024 10:22	56501	ROCK_T2	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/4/2024 10:22	56504	ROCK_T2	1	0	-1	0.1	0	-0.1	-0.07	-0.04	0	0	0	0	0	0
9/4/2024 10:23	59202	THOM_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
9/4/2024 10:23	45501	DERR_T2	1	0	-1	0.3	0	-0.3	0.95	0.92	2	2	0	1800	1800	0
9/4/2024 10:24	66703	STRA_T1	2	4	2	0.45	0.43	-0.02	0.04	0.14	0	0	0	0	0	0
9/4/2024 10:24	64101	REFR_T1	0	0	0	0	0	0	0.48	0.55	0	0	0	0	0	0
9/4/2024 10:24	66701	STRA_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
9/4/2024 10:25	66701	STRA_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
9/4/2024 10:25	66703	STRA_T1	2	4	2	0.45	0.43	-0.02	0.04	0.14	0	0	0	0	0	0
9/4/2024 10:25	60101	COCA_T1	0	2	2	0	0.15	0.15	0.39	0.4	0	0	0	0	0	0
9/4/2024 10:25	67502	WEWI_T2	3	4	1	0.83	0.83	0	0	0	0	0	0	0	0	0
9/4/2024 10:25	13704	SCHN_T2	1	1	0	0.2	0.2	0	-0.26	-0.25	0	0	0	0	0	0
9/4/2024 10:25	67503	WEWI_T2	1	1	0	8.7	8.8	0.1	-0.09	-0.1	0	0	0	0	0	0
9/4/2024 10:25	13701	SCHN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/4/2024 10:26	64101	REFR_T1	0	0	0	0	0	0	0.24	0.27	0	0	0	0	0	0
9/4/2024 10:26	45501	DERR_T2	1	0	-1	0.3	0	-0.3	0.95	0.92	2	2	0	1800	1800	0
9/4/2024 10:26	67503	WEWI_T2	1	1	0	8.7	8.8	0.1	-0.09	-0.1	0	0	0	0	0	0
9/4/2024 10:26	40801	EXCH_T2	1	2	1	0.2	0.4	0.2	-0.5	-0.42	1	1	0	1200	1200	0
9/4/2024 10:26	64305	LINC_T1	0	0	0	0	0	0	-0.12	-0.06	0	0	0	0	0	0
9/4/2024 10:26	60101	COCA_T1	0	2	2	0	0.15	0.15	0.77	0.81	0	0	0	0	0	0
9/4/2024 10:26	67502	WEWI_T2	3	4	1	0.83	0.83	0	0	0	0	0	0	0	0	0
9/4/2024 10:26	59202	THOM_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
9/4/2024 10:26	40802	EXCH_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
9/4/2024 10:27	66501	SMAN_T2	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/4/2024 10:27	62102	ELAN_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
9/4/2024 10:27	62105	ELAN_T1	0	3	3	0	0.33	0.33	0.41	0.44	0	0	0	0	0	0
9/4/2024 10:27	67502	WEWI_T2	3	4	1	0.83	0.83	0	-0.18	-0.19	0	0	0	0	0	0
9/4/2024 10:27	66502	SMAN_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/4/2024 10:27	67503	WEWI_T2	1	1	0	8.7	8.8	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:27	66505	SMAN_T2	0	0	0	0	0	0	0.74	0.91	1	1	0	900	900	0
9/4/2024 10:27	66504	SMAN_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/4/2024 10:27	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 10:28	63401	HONY_T1	0	0	0	0	0	0	-0.05	-0.04	1	1	0	600	600	0
9/4/2024 10:28	60801	BUCK_T1	1	1	0	0.2	0.1	-0.1	0.04	0.05	0	0	0	0	0	0
9/4/2024 10:29	12302	LANA_T2	0	0	0	0	0	0	-1.68	-1.63	2	2	0	1500	1500	0
9/4/2024 10:30	53501	EVIL_T2	3	4	1	0.63	0.7	0.07	-0.01	-0.01	2	2	0	800	800	0
9/4/2024 10:31	64202	KINZ_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 10:31	64203	KINZ_T1	0	0	0	0	0	0	0.13	0.27	3	3	0	2100	2100	0
9/4/2024 10:31	20601	GRWO_T2	0	3	3	0	0	0	1.24	1.22	0	0	0	0	0	0
9/4/2024 10:31	64204	KINZ_T1	29	27	-2	0.43	0.44	0.01	0	0	0	0	0	0	0	0
9/4/2024 10:31	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 10:32	53501	EVIL_T2	3	4	1	0.63	0.7	0.07	-0.01	-0.01	2	2	0	800	800	0
9/4/2024 10:33	58303	NOTT_T2	0	1	1	0	0.2	0.2	0.23	0.36	1	1	0	900	900	0
9/4/2024 10:33	45502	DERR_T2	0	0	0	0	0	0	0.28	0.62	0	0	0	0	0	0
9/4/2024 10:34	55002	NEWP_T1	10	16	6	0.93	0.84	-0.09	-0.2	-0.2	0	0	0	0	0	0
9/4/2024 10:35	64902	MILL_T2	0	0	0	0	0	0	-0.45	-0.48	1	1	0	900	900	0
9/4/2024 10:35	53501	EVIL_T2	3	4	1	0.63	0.7	0.07	-0.01	-0.01	2	2	0	800	800	0
9/4/2024 10:35	42801	SELI_T1	0	0	0	0	0	0	-1.03	-1.01	1	1	0	1200	1200	0
9/4/2024 10:36	58401	MORO_T1	0	2	2	0	0	0	-0.6	-0.55	0	0	0	0	0	0
9/4/2024 10:36	14802	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 10:36	52002	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 10:36	65904	SAKR_T2	0	0	0	0	0	0	-2.01	-2	3	3	0	1500	1500	0
9/4/2024 10:36	14801	TREI_T2	2	2	0	0.3	0.5	0.2	0.52	0.48	0	0	0	0	0	0
9/4/2024 10:36	65901	SAKR_T2	1	1	0	7.1	7	-0.1	0	0	0	0	0	0	0	0
9/4/2024 10:36	58402	MORO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/4/2024 10:36	52004	LING_T2	3	5	2	4.33	2.8	-1.53	0.4	0.42	0	0	0	0	0	0
9/4/2024 10:37	55002	NEWP_T1	10	16	6	0.93	0.84	-0.09	-0.2	-0.2	0	0	0	0	0	0
9/4/2024 10:38	57401	SPAN_T1	2	5	3	1.3	0.68	-0.62	0.33	0.36	0	0	0	0	0	0
9/4/2024 10:38	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:38	57002	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:38	57005	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:38	57001	WHHI_T2	0	0	0	0	0	0	-1.01	-1.1	1	1	0	900	900	0
9/4/2024 10:38	59202	THOM_T1	3	11	8	0.2	0.45	0.25	0	0	0	0	0	0	0	0
9/4/2024 10:38	64101	REFR_T1	0	0	0	0	0	0	0.27	0.47	0	0	0	0	0	0
9/4/2024 10:38	57403	SPAN_T1	1	11	10	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
9/4/2024 10:38	57003	WHHI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/4/2024 10:38	55002	NEWP_T1	10	16	6	0.93	0.84	-0.09	-0.2	-0.2	0	0	0	0	0	0
9/4/2024 10:38	57006	WHHI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/4/2024 10:39	15204	SFAR_T2	1	4	3	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
9/4/2024 10:39	16101	BING_T2	0	1	1	0	0.1	0.1	0.45	0.44	0	0	0	0	0	0
9/4/2024 10:39	67203	TEHI_T1	1	1	0	0.2	0.4	0.2	2.8	2.84	3	3	0	2100	2100	0
9/4/2024 10:39	15203	SFAR_T2	17	31	14	0.6	0.29	-0.31	-1.15	-1.13	0	0	0	0	0	0
9/4/2024 10:39	42302	MOWR_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
9/4/2024 10:39	16102	BING_T2	1	5	4	0.4	0.52	0.12	0	0	0	0	0	0	0	0
9/4/2024 10:39	64101	REFR_T1	0	0	0	0	0	0	0.14	0.23	0	0	0	0	0	0
9/4/2024 10:40	42701	AUGU_T1	2	2	0	0.75	0.85	0.1	0	0	2	2	0	1800	1800	0
9/4/2024 10:40	16101	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:40	16102	BING_T2	1	5	4	0.4	0.52	0.12	0.05	0.04	1	1	0	1200	1200	0
9/4/2024 10:41	16102	BING_T2	1	5	4	0.4	0.52	0.12	0	0	0	0	0	0	0	0
9/4/2024 10:41	16103	BING_T2	0	0	0	0	0	0	-0.84	-0.8	2	2	0	1500	1500	0
9/4/2024 10:41	42701	AUGU_T1	2	2	0	0.75	0.85	0.1	0	0	2	2	0	1800	1800	0
9/4/2024 10:41	14802	TREI_T2	0	1	1	0	0.2	0.2	0.56	0.58	0	0	0	0	0	0
9/4/2024 10:41	16101	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:41	66501	SMAN_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:41	66504	SMAN_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:41	66502	SMAN_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:41	14801	TREI_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/4/2024 10:42	20401	ASHF_T2	2	3	1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
9/4/2024 10:42	20403	ASHF_T2	4	5	1	0.5	0.56	0.06	0.81	0.8	0	0	0	0	0	0
9/4/2024 10:42	66504	SMAN_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:42	66502	SMAN_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:42	66501	SMAN_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:43	11402	FARM_T1	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
9/4/2024 10:43	62102	ELAN_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:43	62105	ELAN_T1	3	3	0	0.33	0.4	0.07	0.44	0.43	0	0	0	0	0	0
9/4/2024 10:43	11405	FARM_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
9/4/2024 10:44	42701	AUGU_T1	2	2	0	0.75	0.85	0.1	0	0	2	2	0	1800	1800	0
9/4/2024 10:44	11405	FARM_T1	0	2	2	0	0.7	0.7	-0.92	-0.9	1	1	0	1200	1200	0
9/4/2024 10:44	46002	BERW_T2	0	0	0	0	0	0	-0.58	-0.6	1	1	0	900	900	0
9/4/2024 10:44	11402	FARM_T1	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
9/4/2024 10:45	40101	HUNT_T2	0	2	2	0	0.3	0.3	-0.34	-0.37	0	0	0	0	0	0
9/4/2024 10:46	62105	ELAN_T1	3	3	0	0.27	0.4	0.13	0.44	0.43	0	0	0	0	0	0
9/4/2024 10:46	52403	GRPA_T2	116	114	-2	1.28	1.19	-0.09	-0.06	-0.05	0	0	0	0	0	0
9/4/2024 10:46	45802	HEGI_T2	0	40	40	0	0.94	0.94	1.15	1.03	0	0	0	0	0	0
9/4/2024 10:46	52402	GRPA_T2	7	11	4	0.31	0.55	0.24	0	0	0	0	0	0	0	0
9/4/2024 10:46	62102	ELAN_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
9/4/2024 10:47	45802	HEGI_T2	0	40	40	0	0.94	0.94	1.15	1.03	0	0	0	0	0	0
9/4/2024 10:47	40101	HUNT_T2	0	2	2	0	0.3	0.3	-0.34	-0.37	0	0	0	0	0	0
9/4/2024 10:48	58302	NOTT_T1	0	0	0	0	0	0	-0.09	-0.09	1	1	0	1200	1200	0
9/4/2024 10:51	42201	SHEN_T2	0	0	0	0	0	0	0.63	0.59	0	0	0	0	0	0
9/4/2024 10:55	67703	WERN_T2	0	0	0	0	0	0	-0.11	-0.12	1	1	0	900	900	0
9/4/2024 10:56	60101	COCA_T1	2	2	0	0.15	0.4	0.25	1	0.9	0	0	0	0	0	0
9/4/2024 10:57	54504	ENOL_T2	1	1	0	1.3	1.3	0	-1.75	-1.75	1	1	0	600	600	0
9/4/2024 10:57	54505	ENOL_T2	2	2	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
9/4/2024 10:57	47202	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 10:57	60101	COCA_T1	2	2	0	0.15	0.4	0.25	0.5	0.45	0	0	0	0	0	0
9/4/2024 10:57	54502	ENOL_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
9/4/2024 10:57	47203	FAXO_T2	0	0	0	0	0	0	-1.46	-1.51	1	1	0	1200	1200	0
9/4/2024 10:57	51603	DUKE_T1	0	2	2	0	0.7	0.7	-0.42	-0.4	0	0	0	0	0	0
9/4/2024 10:57	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:57	51601	DUKE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:58	51603	DUKE_T1	0	2	2	0	0.7	0.7	-0.84	-0.8	0	0	0	0	0	0
9/4/2024 10:58	51601	DUKE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 10:58	28403	HART_T2	0	0	0	0	0	0	-0.66	-0.65	1	1	0	900	900	0
9/4/2024 10:59	61801	EELI_T2	0	0	0	0	0	0	-0.47	-0.45	1	1	0	600	600	0
9/4/2024 10:59	60101	COCA_T1	2	2	0	0.15	0.4	0.25	0.5	0.45	0	0	0	0	0	0
9/4/2024 10:59	40101	HUNT_T2	0	2	2	0	0.3	0.3	-0.37	-0.37	0	0	0	0	0	0
9/4/2024 10:59	21206	ECAR_T2	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
9/4/2024 10:59	21204	ECAR_T2	1	1	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
9/4/2024 10:59	61803	EELI_T2	0	0	0	0	0	0	0.37	1.1	1	0	-1	600	0	-600
9/4/2024 11:00	51603	DUKE_T1	2	2	0	0.25	0.7	0.45	-0.42	-0.4	0	0	0	0	0	0
9/4/2024 11:00	51601	DUKE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 11:01	40101	HUNT_T2	1	1	0	0.3	0.1	-0.2	-0.37	-0.37	0	0	0	0	0	0
9/4/2024 11:01	60101	COCA_T1	2	2	0	0.3	0.6	0.3	1	0.9	0	0	0	0	0	0
9/4/2024 11:02	41902	REED_T1	0	0	0	0	0	0	1.15	1.12	0	0	0	0	0	0
9/4/2024 11:02	42902	MIDD_T2	0	2	2	0	0.2	0.2	-0.46	-0.48	1	1	0	600	600	0
9/4/2024 11:02	55508	HERS_T2	2	2	0	1.3	1.4	0.1	-2.44	-2.45	1	1	0	1200	1200	0
9/4/2024 11:03	41902	REED_T1	0	0	0	0	0	0	1.15	1.12	0	0	0	0	0	0
9/4/2024 11:03	55508	HERS_T2	2	2	0	1.3	1.4	0.1	-2.44	-2.45	1	1	0	1200	1200	0
9/4/2024 11:04	44203	POIN_T2	0	0	0	0	0	0	0.29	0.39	2	2	0	2100	2100	0
9/4/2024 11:04	44202	POIN_T2	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
9/4/2024 11:06	24201	PROV_T3	6	6	0	1.5	1.18	-0.32	-1.27	-1.26	1	1	0	1200	1200	0
9/4/2024 11:06	67402	WAKE_T2	0	0	0	0	0	0	0.44	0.47	1	1	0	600	600	0
9/4/2024 11:06	64101	REFR_T1	0	0	0	0	0	0	0.14	0.19	0	0	0	0	0	0
9/4/2024 11:06	67401	WAKE_T2	2	2	0	0.25	1.05	0.8	0	0	0	0	0	0	0	0
9/4/2024 11:06	44202	POIN_T2	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
9/4/2024 11:06	24204	PROV_T3	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
9/4/2024 11:06	44203	POIN_T2	0	0	0	0	0	0	0.39	0.29	2	2	0	2100	2100	0
9/4/2024 11:07	44202	POIN_T2	1	0	-1	1.5	0	-1.5	-0.46	-0.5	1	1	0	1200	1200	0
9/4/2024 11:08	44202	POIN_T2	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
9/4/2024 11:08	44203	POIN_T2	0	0	0	0	0	0	0.39	0.29	2	2	0	2100	2100	0
9/4/2024 11:08	64101	REFR_T1	0	0	0	0	0	0	0.27	0.38	0	0	0	0	0	0
9/4/2024 11:09	67603	WARW_T1	2	1	-1	0.3	0.3	0	0.11	0.09	0	0	0	0	0	0
9/4/2024 11:09	67605	WARW_T1	12	14	2	0.48	0.49	0.01	-0.96	-0.94	0	0	0	0	0	0
9/4/2024 11:10	67605	WARW_T1	12	14	2	0.48	0.49	0.01	-1.92	-1.87	0	0	0	0	0	0
9/4/2024 11:10	64101	REFR_T1	0	0	0	0	0	0	0.14	0.19	0	0	0	0	0	0
9/4/2024 11:10	67603	WARW_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
9/4/2024 11:11	64101	REFR_T1	0	0	0	0	0	0	0.27	0.38	0	0	0	0	0	0
9/4/2024 11:12	67503	WEWI_T2	1	1	0	8.7	8.5	-0.2	-0.11	-0.05	0	0	0	0	0	0
9/4/2024 11:12	67603	WARW_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
9/4/2024 11:12	51304	WIND_T2	1	1	0	1.3	1.7	0.4	0.72	0.77	0	0	0	0	0	0
9/4/2024 11:12	67502	WEWI_T2	2	2	0	1.25	1.3	0.05	0	0	0	0	0	0	0	0
9/4/2024 11:12	67605	WARW_T1	12	14	2	0.48	0.49	0.01	-0.96	-0.94	0	0	0	0	0	0
9/4/2024 11:12	51306	WIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 11:13	67502	WEWI_T2	2	2	0	1.25	1.3	0.05	0	0	0	0	0	0	0	0
9/4/2024 11:13	43402	BENT_T1	0	2	2	0	0.25	0.25	-0.57	-0.55	1	1	0	600	600	0
9/4/2024 11:13	67603	WARW_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
9/4/2024 11:13	13701	SCHN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 11:13	13704	SCHN_T2	1	1	0	0.3	0.2	-0.1	-0.26	-0.2	0	0	0	0	0	0
9/4/2024 11:13	67503	WEWI_T2	1	1	0	8.7	8.5	-0.2	-0.11	-0.05	0	0	0	0	0	0
9/4/2024 11:13	67605	WARW_T1	12	14	2	0.48	0.49	0.01	-0.96	-0.94	0	0	0	0	0	0
9/4/2024 11:14	67603	WARW_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
9/4/2024 11:14	66503	SMAN_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
9/4/2024 11:14	66504	SMAN_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
9/4/2024 11:14	66502	SMAN_T2	1	4	3	0.9	0.35	-0.55	0	0	0	0	0	0	0	0
9/4/2024 11:14	67605	WARW_T1	12	14	2	0.48	0.49	0.01	-0.96	-0.94	0	0	0	0	0	0
9/4/2024 11:14	67502	WEWI_T2	2	2	0	1.25	1.3	0.05	-0.05	-0.11	0	0	0	0	0	0
9/4/2024 11:14	67503	WEWI_T2	1	1	0	8.7	8.5	-0.2	0	0	0	0	0	0	0	0
9/4/2024 11:14	66501	SMAN_T2	1	2	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
9/4/2024 11:15	52401	GRPA_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
9/4/2024 11:15	12604	MACA_T1	1	2	1	0.2	0.35	0.15	0.39	0.38	0	0	0	0	0	0
9/4/2024 11:15	52403	GRPA_T2	106	111	5	1.15	1.41	0.26	0	0	0	0	0	0	0	0
9/4/2024 11:15	52402	GRPA_T2	9	76	67	0.56	0.32	-0.24	-0.81	-0.83	0	0	0	0	0	0
9/4/2024 11:15	40101	HUNT_T2	1	1	0	0.1	0.4	0.3	-0.37	-0.43	0	0	0	0	0	0
9/4/2024 11:15	12602	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 11:15	12601	MACA_T1	1	2	1	1.5	1	-0.5	0	0	0	0	0	0	0	0
9/4/2024 11:16	40101	HUNT_T2	1	1	0	0.1	0.4	0.3	-0.37	-0.43	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/4/2024 11:18	52403	GRPA_T2	106	111	5	1.15	1.41	0.26	0	0	0	0	0	0	0	0
9/4/2024 11:18	43402	BENT_T1	2	0	-2	0.25	0	-0.25	-0.57	-0.55	1	1	0	600	600	0
9/4/2024 11:18	52402	GRPA_T2	9	76	67	0.56	0.32	-0.24	-0.81	-0.83	0	0	0	0	0	0
9/4/2024 11:18	12002	HATF_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/4/2024 11:18	12001	HATF_T1	0	0	0	0	0	0	-1.1	-1.06	4	4	0	3600	3600	0
9/4/2024 11:18	12701	MACU_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
9/4/2024 11:19	55508	HERS_T2	2	2	0	1.4	1.35	-0.05	0	0	0	0	0	0	0	0
9/4/2024 11:19	40101	HUNT_T2	1	1	0	0.1	0.4	0.3	-0.37	-0.43	0	0	0	0	0	0
9/4/2024 11:19	52402	GRPA_T2	9	76	67	0.56	0.32	-0.24	0	0	0	0	0	0	0	0
9/4/2024 11:19	12701	MACU_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
9/4/2024 11:19	52403	GRPA_T2	106	111	5	1.15	1.41	0.26	-0.03	-0.01	0	0	0	0	0	0
9/4/2024 11:22	64101	REFR_T1	0	0	0	0	0	0	0.38	-0.12	0	0	0	0	0	0
9/4/2024 11:23	43101	SMIL_T2	2	3	1	0.35	0.73	0.38	0	0	0	0	0	0	0	0
9/4/2024 11:23	43103	SMIL_T2	17	22	5	0.79	0.67	-0.12	-1.39	-1.61	0	0	0	0	0	0
9/4/2024 11:23	43104	SMIL_T2	4	5	1	0.48	0.44	-0.04	0	0	0	0	0	0	0	0
9/4/2024 11:23	43105	SMIL_T2	9	6	-3	0.38	0.42	0.04	0	0	0	0	0	0	0	0
9/4/2024 11:23	40201	BEGA_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
9/4/2024 11:23	55105	WERT_T1	0	0	0	0	0	0	-0.4	-0.38	1	1	0	900	900	0
9/4/2024 11:23	43102	SMIL_T2	6	7	1	0.77	0.67	-0.1	-0.67	-0.68	1	1	0	600	600	0
9/4/2024 11:24	43103	SMIL_T2	17	22	5	0.79	0.67	-0.12	0	0	0	0	0	0	0	0
9/4/2024 11:24	43102	SMIL_T2	6	7	1	0.77	0.67	-0.1	0	0	0	0	0	0	0	0
9/4/2024 11:24	43101	SMIL_T2	2	3	1	0.35	0.73	0.38	-1.2	-1.15	0	0	0	0	0	0
9/4/2024 11:24	64101	REFR_T1	0	0	0	0	0	0	0.19	-0.06	0	0	0	0	0	0
9/4/2024 11:24	43104	SMIL_T2	4	5	1	0.48	0.44	-0.04	0	0	0	0	0	0	0	0
9/4/2024 11:24	43105	SMIL_T2	9	6	-3	0.38	0.42	0.04	0	0	0	0	0	0	0	0
9/4/2024 11:26	43102	SMIL_T2	6	7	1	0.77	0.67	-0.1	0	0	0	0	0	0	0	0
9/4/2024 11:26	43101	SMIL_T2	2	3	1	0.35	0.73	0.38	0	0	0	0	0	0	0	0
9/4/2024 11:26	43103	SMIL_T2	17	22	5	0.79	0.67	-0.12	0	0	0	0	0	0	0	0
9/4/2024 11:26	43104	SMIL_T2	4	5	1	0.48	0.44	-0.04	0	0	0	0	0	0	0	0
9/4/2024 11:26	43105	SMIL_T2	9	6	-3	0.38	0.42	0.04	0	0	0	0	0	0	0	0
9/4/2024 11:26	40201	BEGA_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
9/4/2024 11:27	57303	MOAL_T2	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
9/4/2024 11:27	57306	MOAL_T2	1	1	0	0.2	0.2	0	-3.14	-3.13	1	1	0	1200	1200	0
9/4/2024 11:28	57303	MOAL_T2	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
9/4/2024 11:28	61001	DONV_T1	1	1	0	0.9	0.3	-0.6	-0.14	-0.12	0	0	0	0	0	0
9/4/2024 11:28	52402	GRPA_T2	9	76	67	0.56	0.32	-0.24	0	0	0	0	0	0	0	0
9/4/2024 11:28	61306	EARL_T1	0	0	0	0	0	0	-1.22	-1.22	0	0	0	0	0	0
9/4/2024 11:28	57306	MOAL_T2	1	1	0	0.2	0.2	0	-6.29	-6.27	2	2	0	2400	2400	0
9/4/2024 11:28	52403	GRPA_T2	106	111	5	1.15	1.41	0.26	-0.01	-0.03	0	0	0	0	0	0
9/4/2024 11:29	57002	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 11:29	57001	WHHI_T2	0	0	0	0	0	0	-1.15	-1.02	1	1	0	900	900	0
9/4/2024 11:29	46004	BERW_T2	0	1	1	0	0	0	0.07	0.1	0	0	0	0	0	0
9/4/2024 11:30	57301	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 11:30	57306	MOAL_T2	1	1	0	0.2	0.2	0	-3.14	-3.13	1	1	0	1200	1200	0
9/4/2024 11:30	57303	MOAL_T2	1	1	0	7.4	7.3	-0.1	0	0	0	0	0	0	0	0
9/4/2024 11:31	11901	ETEX_T2	0	0	0	0	0	0	0.42	0.46	0	0	0	0	0	0
9/4/2024 11:31	11904	ETEX_T2	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 11:32	40801	EXCH_T2	2	2	0	0.35	0.35	0	-0.42	-0.37	1	1	0	1200	1200	0
9/4/2024 11:32	41002	LAUR_T2	2	2	0	0.8	0.9	0.1	0.08	0.07	0	0	0	0	0	0
9/4/2024 11:32	41001	LAUR_T2	2	5	3	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
9/4/2024 11:32	40802	EXCH_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
9/4/2024 11:33	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 11:33	43202	MVIL_T2	1	48	47	0.6	0.21	-0.39	-0.55	-0.5	0	0	0	0	0	0
9/4/2024 11:33	61502	EPET_T1	0	0	0	0	0	0	-0.58	-0.71	0	0	0	0	0	0
9/4/2024 11:34	43202	MVIL_T2	1	48	47	0.6	0.21	-0.39	-0.55	-0.5	0	0	0	0	0	0
9/4/2024 11:34	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 11:35	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 11:35	43202	MVIL_T2	1	48	47	0.6	0.21	-0.39	-0.55	-0.5	0	0	0	0	0	0
9/4/2024 11:36	14401	SSLA_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/4/2024 11:36	54601	SUMM_T2	10	10	0	0.5	0.39	-0.11	-1.71	-1.67	2	2	0	2100	2100	0
9/4/2024 11:36	14402	SSLA_T1	4	4	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
9/4/2024 11:36	54602	SUMM_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/4/2024 11:36	14403	SSLA_T1	4	3	-1	0.35	0.63	0.28	0	0	0	0	0	0	0	0
9/4/2024 11:36	14404	SSLA_T1	5	5	0	0.28	0.38	0.1	0.09	0.15	0	0	0	0	0	0
9/4/2024 11:37	14402	SSLA_T1	4	4	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
9/4/2024 11:37	14403	SSLA_T1	4	3	-1	0.35	0.63	0.28	0	0	0	0	0	0	0	0
9/4/2024 11:37	14401	SSLA_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/4/2024 11:37	14404	SSLA_T1	5	5	0	0.28	0.38	0.1	0.09	0.15	0	0	0	0	0	0
9/4/2024 11:38	54602	SUMM_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/4/2024 11:38	67201	TEHI_T1	0	2	2	0	1.15	1.15	0.86	0.87	2	2	0	1500	1500	0
9/4/2024 11:38	67203	TEHI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/4/2024 11:38	13701	SCHN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/4/2024 11:38	13704	SCHN_T2	1	1	0	0.2	0.3	0.1	-0.14	-0.15	0	0	0	0	0	0
9/4/2024 11:38	54601	SUMM_T2	10	10	0	0.5	0.39	-0.11	-1.67	-1.64	2	2	0	2100	2100	0
9/4/2024 11:39	46302	ROHR_T1	5	6	1	1.5	1.58	0.08	0	0	0	0	0	0	0	0
9/4/2024 11:39	46301	ROHR_T1	2	8	6	3.55	1.45	-2.1	0.24	0.26	0	0	0	0	0	0
9/4/2024 11:39	54602	SUMM_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/4/2024 11:39	54601	SUMM_T2	10	10	0	0.5	0.39	-0.11	-1.67	-1.64	2	2	0	2100	2100	0
9/4/2024 11:43	46402	FLEM_T2	134	517	383	0.28	0.44	0.16	0.06	-0.05	0	0	0	0	0	0
9/4/2024 11:43	46401	FLEM_T2	257	741	484	0.31	0.5	0.19	0	0	0	0	0	0	0	0
9/4/2024 11:43	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 11:43	29402	BELT_T1	3	3	0	2.77	2.7	-0.07	0	0	0	0	0	0	0	0
9/4/2024 11:44	46401	FLEM_T2	257	741	484	0.31	0.5	0.19	-0.35	-0.26	0	0	0	0	0	0
9/4/2024 11:44	46402	FLEM_T2	134	517	383	0.28	0.44	0.16	0.06	-0.05	0	0	0	0	0	0
9/4/2024 11:44	61505	EPET_T1	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
9/4/2024 11:47	46401	FLEM_T2	565	745	180	0.35	0.5	0.15	-0.35	-0.26	0	0	0	0	0	0
9/4/2024 11:47	46402	FLEM_T2	357	514	157	0.32	0.44	0.12	0	0	0	0	0	0	0	0
9/4/2024 11:47	46501	LOHA_T1	0	0	0	0	0	0	0.17	0.18	1	1	0	1200	1200	0
9/4/2024 11:47	46506	LOHA_T1	3	3	0	5.23	5.63	0.4	0	0	0	0	0	0	0	0
9/4/2024 11:47	46503	LOHA_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/4/2024 11:47	46504	LOHA_T1	3	3	0	0.2	0.53	0.33	0	0	0	0	0	0	0	0
9/4/2024 11:50	64704	LITI_T1	0	1	1	0	0	0	0.83	0.79	0	0	0	0	0	0
9/4/2024 11:50	46506	LOHA_T1	3	3	0	5.23	5.63	0.4	0	0	0	0	0	0	0	0
9/4/2024 11:50	46504	LOHA_T1	3	3	0	0.2	0.53	0.33	0	0	0	0	0	0	0	0
9/4/2024 11:50	46503	LOHA_T1	0	1	1	0	0.6	0.6	-0.6	-0.6	0	0	0	0	0	0
9/4/2024 11:50	58202	NEWV_T1	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
9/4/2024 11:51	46501	LOHA_T1	0	0	0	0	0	0	0.18	0.17	1	1	0	1200	1200	0
9/4/2024 11:51	46503	LOHA_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/4/2024 11:51	46506	LOHA_T1	3	3	0	5.23	5.63	0.4	0	0	0	0	0	0	0	0
9/4/2024 11:51	44201	POIN_T1	0	0	0	0	0	0	-0.67	-1.04	2	2	0	2100	2100	0
9/4/2024 11:51	46504	LOHA_T1	3	3	0	0.2	0.53	0.33	0	0	0	0	0	0	0	0
9/4/2024 11:52	46501	LOHA_T1	0	0	0	0	0	0	0.18	0.17	1	1	0	1200	1200	0
9/4/2024 11:52	42802	SELI_T1	0	0	0	0	0	0	-0.91	-0.6	1	1	0	900	900	0
9/4/2024 11:52	46504	LOHA_T1	3	3	0	0.2	0.53	0.33	0	0	0	0	0	0	0	0
9/4/2024 11:52	46503	LOHA_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/4/2024 11:52	46506	LOHA_T1	3	3	0	5.23	5.63	0.4	0	0	0	0	0	0	0	0
9/4/2024 11:53	59202	THOM_T1	7	31	24	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
9/4/2024 11:53	59201	THOM_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
9/4/2024 11:54	14404	SSLA_T1	4	5	1	0.43	0.42	-0.01	0	0	0	0	0	0	0	0
9/4/2024 11:54	67401	WAKE_T2	2	3	1	0.9	0.67	-0.23	0	0	0	0	0	0	0	0
9/4/2024 11:54	42802	SELI_T1	0	0	0	0	0	0	-0.91	-0.6	1	1	0	900	900	0
9/4/2024 11:54	67402	WAKE_T2	0	0	0	0	0	0	0.48	0.52	1	1	0	600	600	0
9/4/2024 11:54	43801	SWIL_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
9/4/2024 11:54	14401	SSLA_T1	1	3	2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/4/2024 11:54	14402	SSLA_T1	4	4	0	0.38	0.45	0.07	0	0	0	0	0	0	0	0
9/4/2024 11:54	14403	SSLA_T1	2	3	1	0.75	0.63	-0.12	0.78	0.81	0	0	0	0	0	0
9/4/2024 11:54	13704	SCHN_T2	1	1	0	0.3	0.4	0.1	-0.15	-0.03	0	0	0	0	0	0
9/4/2024 11:54	43802	SWIL_T1	0	0	0	0	0	0	0	0.01	1	1	0	600	600	0
9/4/2024 11:54	15001	BLMO_T1	4	3	-1	0.4	0.57	0.17	0	0	0	0	0	0	0	0
9/4/2024 11:54	13701	SCHN_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
9/4/2024 11:55	64101	REFR_T1	0	1	1	0	0.5	0.5	-0.01	-0.01	0	0	0	0	0	0
9/4/2024 11:55	40602	PIGR_T1	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
9/4/2024 11:55	43103	SMIL_T2	22	25	3	0.66	0.71	0.05	0	0	0	0	0	0	0	0
9/4/2024 11:55	43102	SMIL_T2	6	7	1	0.67	0.66	-0.01	0	0	0	0	0	0	0	0
9/4/2024 11:55	40601	PIGR_T1	67	113	46	0.28	0.39	0.11	-0.23	-0.22	0	0	0	0	0	0
9/4/2024 11:55	43101	SMIL_T2	3	4	1	0.73	0.58	-0.15	0	0	0	0	0	0	0	0
9/4/2024 11:55	43104	SMIL_T2	5	4	-1	0.44	0.43	-0.01	-0.73	-0.71	1	1	0	300	300	0
9/4/2024 11:55	40603	PIGR_T1	2	2	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
9/4/2024 11:55	29402	BELT_T1	2	4	2	4	2.05	-1.95	0	0	0	0	0	0	0	0
9/4/2024 11:55	43105	SMIL_T2	5	8	3	0.48	0.35	-0.13	0	0	0	0	0	0	0	0
9/4/2024 11:55	42802	SELI_T1	0	0	0	0	0	0	-3.64	-2.41	4	4	0	3600	3600	0
9/4/2024 11:56	40601	PIGR_T1	67	113	46	0.28	0.39	0.11	0	0	0	0	0	0	0	0
9/4/2024 11:56	42802	SELI_T1	0	0	0	0	0	0	-0.91	-0.6	1	1	0	900	900	0
9/4/2024 11:56	44802	EDAN_T2	0	0	0	0	0	0	-1.18	-1.18	0	0	0	0	0	0
9/4/2024 11:56	51306	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 11:56	40602	PIGR_T1	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
9/4/2024 11:56	44801	EDAN_T2	140	148	8	0.54	0.66	0.12	-1.52	-1.53	0	0	0	0	0	0
9/4/2024 11:56	51304	WIND_T2	1	2	1	1.2	1.7	0.5	0.79	0.75	0	0	0	0	0	0
9/4/2024 11:56	64101	REFR_T1	0	1	1	0	0.5	0.5	-0.01	-0.01	0	0	0	0	0	0
9/4/2024 11:56	40603	PIGR_T1	2	2	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
9/4/2024 11:57	59202	THOM_T1	7	31	24	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
9/4/2024 11:57	44801	EDAN_T2	140	148	8	0.54	0.66	0.12	0	0	0	0	0	0	0	0
9/4/2024 11:57	59201	THOM_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
9/4/2024 11:57	44302	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 11:57	53601	DALM_T2	1	1	0	0.2	1.2	1	-0.32	-0.37	1	1	0	900	900	0
9/4/2024 11:57	44301	BEAV_T2	2	3	1	0.3	0.6	0.3	1.33	0.89	1	1	0	600	600	0
9/4/2024 11:57	44802	EDAN_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
9/4/2024 11:58	23203	HIRU_T2	1	1	0	0.1	0.2	0.1	0.12	0.13	0	0	0	0	0	0
9/4/2024 11:58	23201	HIRU_T2	1	3	2	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
9/4/2024 11:58	23202	HIRU_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
9/4/2024 11:58	40101	HUNT_T2	1	1	0	0.4	0.1	-0.3	-0.41	-0.28	0	0	0	0	0	0
9/4/2024 11:59	44801	EDAN_T2	140	148	8	0.54	0.66	0.12	0	0	0	0	0	0	0	0
9/4/2024 11:59	44301	BEAV_T2	2	3	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/4/2024 11:59	44802	EDAN_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
9/4/2024 11:59	67503	WEWI_T2	1	1	0	8.1	8.3	0.2	0	0	0	0	0	0	0	0
9/4/2024 11:59	67502	WEWI_T2	2	2	0	1.25	1.3	0.05	-0.21	-0.22	0	0	0	0	0	0
9/4/2024 11:59	44302	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 12:00	67503	WEWI_T2	1	1	0	8.3	8.3	0	0	0	0	0	0	0	0	0
9/4/2024 12:00	45801	HEGI_T1	0	0	0	0	0	0	0.11	0.05	1	1	0	900	900	0
9/4/2024 12:00	44802	EDAN_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
9/4/2024 12:00	44801	EDAN_T2	145	142	-3	0.65	0.64	-0.01	-1.52	-1.53	0	0	0	0	0	0
9/4/2024 12:00	45802	HEGI_T2	2	3	1	0.4	0.17	-0.23	1.42	0.82	0	1	1	0	900	900
9/4/2024 12:00	16002	DORN_T2	0	0	0	0	0	0	-0.62	-0.59	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/4/2024 12:00	67502	WEWI_T2	2	3	1	1.25	0.9	-0.35	-0.21	-0.22	0	0	0	0	0	0
9/4/2024 12:03	45801	HEGI_T1	0	0	0	0	0	0	0.11	0.05	1	1	0	900	900	0
9/4/2024 12:04	45801	HEGI_T1	0	0	0	0	0	0	0.11	0.05	1	1	0	900	900	0
9/4/2024 12:04	45802	HEGI_T2	2	3	1	0.4	0.17	-0.23	1.42	0.82	0	1	1	0	900	900
9/4/2024 12:06	14404	SSLA_T1	5	4	-1	0.38	0.48	0.1	0	0	0	0	0	0	0	0
9/4/2024 12:06	47403	PENS_T1	2	1	-1	0.45	1.5	1.05	0	0	0	0	0	0	0	0
9/4/2024 12:06	58705	ROSE_T2	5	5	0	2.38	2.36	-0.02	0	0	0	0	0	0	0	0
9/4/2024 12:06	47401	PENS_T1	2	3	1	1.05	1.43	0.38	0.7	0.75	0	0	0	0	0	0
9/4/2024 12:06	58701	ROSE_T2	0	0	0	0	0	0	-0.24	-0.25	2	2	0	1200	1200	0
9/4/2024 12:06	14401	SSLA_T1	1	3	2	0.4	0.3	-0.1	-0.34	-0.24	0	0	0	0	0	0
9/4/2024 12:06	47402	PENS_T1	1	3	2	0.4	0.53	0.13	0	0	0	0	0	0	0	0
9/4/2024 12:06	14403	SSLA_T1	3	3	0	0.5	0.63	0.13	0	0	0	0	0	0	0	0
9/4/2024 12:06	14402	SSLA_T1	2	4	2	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
9/4/2024 12:08	45402	WBLO_T2	84	86	2	0.5	0.49	-0.01	-1.05	-1.04	1	1	0	900	900	0
9/4/2024 12:09	40201	BEGA_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/4/2024 12:10	21701	SUBU_T1	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
9/4/2024 12:10	21705	SUBU_T1	1	1	0	6	6	0	0.76	0.77	0	0	0	0	0	0
9/4/2024 12:11	43102	SMIL_T2	7	6	-1	0.63	0.7	0.07	0	0	0	0	0	0	0	0
9/4/2024 12:11	54603	SUMM_T2	0	0	0	0	0	0	0.06	0.02	1	1	0	900	900	0
9/4/2024 12:11	43101	SMIL_T2	3	4	1	0.6	0.63	0.03	0	0	0	0	0	0	0	0
9/4/2024 12:11	43104	SMIL_T2	4	3	-1	0.4	0.5	0.1	-0.71	-0.72	1	1	0	300	300	0
9/4/2024 12:11	43103	SMIL_T2	25	24	-1	0.67	0.72	0.05	0	0	0	0	0	0	0	0
9/4/2024 12:11	54601	SUMM_T2	10	11	1	0.38	0.43	0.05	0	0	0	0	0	0	0	0
9/4/2024 12:11	54602	SUMM_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/4/2024 12:11	43105	SMIL_T2	8	5	-3	0.35	0.46	0.11	0	0	0	0	0	0	0	0
9/4/2024 12:12	45902	AUBU_T1	3	4	1	0.7	0.75	0.05	0.17	0.21	0	0	0	0	0	0
9/4/2024 12:12	67603	WARW_T1	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
9/4/2024 12:12	54602	SUMM_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/4/2024 12:12	54601	SUMM_T2	10	11	1	0.38	0.43	0.05	-1.67	-1.68	2	2	0	2100	2100	0
9/4/2024 12:12	67605	WARW_T1	10	16	6	0.46	0.49	0.03	0	0	0	0	0	0	0	0
9/4/2024 12:12	45901	AUBU_T1	27	34	7	0.22	0.22	0	0	0	0	0	0	0	0	0
9/4/2024 12:13	54602	SUMM_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/4/2024 12:13	54603	SUMM_T2	0	0	0	0	0	0	0.06	0.02	1	1	0	900	900	0
9/4/2024 12:13	44801	EDAN_T2	145	142	-3	0.65	0.64	-0.01	-1.53	-1.53	0	0	0	0	0	0
9/4/2024 12:13	54601	SUMM_T2	10	11	1	0.38	0.43	0.05	0	0	0	0	0	0	0	0
9/4/2024 12:16	59301	MCAL_T1	6	6	0	0.83	0.58	-0.25	-1.44	-1.54	1	1	0	600	600	0
9/4/2024 12:16	59302	MCAL_T1	3	2	-1	0.67	0.45	-0.22	0	0	0	0	0	0	0	0
9/4/2024 12:18	42902	MIDD_T2	5	2	-3	0.46	0.25	-0.21	0	0	0	0	0	0	0	0
9/4/2024 12:18	42903	MIDD_T2	2	0	-2	0.4	0	-0.4	0.01	1.28	1	0	-1	1200	0	-1200
9/4/2024 12:18	51201	MTON_T1	0	1	1	0	0.1	0.1	0.04	0.06	0	0	0	0	0	0
9/4/2024 12:19	46504	LOHA_T1	3	1	-2	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
9/4/2024 12:19	46503	LOHA_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/4/2024 12:19	59302	MCAL_T1	3	2	-1	0.67	0.45	-0.22	0	0	0	0	0	0	0	0
9/4/2024 12:19	59301	MCAL_T1	6	6	0	0.83	0.58	-0.25	-1.44	-1.54	1	1	0	600	600	0
9/4/2024 12:19	26401	INOR_T1	5	5	0	1.52	1.42	-0.1	0.51	0.5	0	0	0	0	0	0
9/4/2024 12:19	46506	LOHA_T1	3	3	0	5.47	4.87	-0.6	0	0	0	0	0	0	0	0
9/4/2024 12:20	45802	HEGI_T2	1	16	15	0.6	0.37	-0.23	0.82	0.7	1	1	0	900	900	0
9/4/2024 12:20	47403	PENS_T1	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
9/4/2024 12:20	47402	PENS_T1	3	2	-1	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
9/4/2024 12:20	47401	PENS_T1	3	2	-1	1.43	0.75	-0.68	0.7	0.75	0	0	0	0	0	0
9/4/2024 12:21	47403	PENS_T1	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
9/4/2024 12:21	64902	MILL_T2	0	0	0	0	0	0	-0.42	-0.41	1	1	0	900	900	0
9/4/2024 12:21	47401	PENS_T1	3	2	-1	1.43	0.75	-0.68	1.49	1.51	0	0	0	0	0	0
9/4/2024 12:21	57403	SPAN_T1	8	6	-2	0.34	0.37	0.03	0	0	0	0	0	0	0	0
9/4/2024 12:21	59301	MCAL_T1	6	6	0	0.83	0.58	-0.25	-1.44	-1.54	1	1	0	600	600	0
9/4/2024 12:21	59302	MCAL_T1	3	2	-1	0.67	0.45	-0.22	0	0	0	0	0	0	0	0
9/4/2024 12:21	47402	PENS_T1	3	2	-1	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
9/4/2024 12:21	57401	SPAN_T1	4	4	0	0.73	0.68	-0.05	0.74	0.85	0	0	0	0	0	0
9/4/2024 12:22	47403	PENS_T1	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
9/4/2024 12:22	53501	EVIL_T2	4	4	0	0.85	0.63	-0.22	-0.01	-0.01	2	2	0	800	800	0
9/4/2024 12:22	45802	HEGI_T2	1	16	15	0.6	0.37	-0.23	0.7	0.56	1	1	0	900	900	0
9/4/2024 12:22	47401	PENS_T1	3	2	-1	1.43	0.75	-0.68	0.75	0.75	0	0	0	0	0	0
9/4/2024 12:22	47402	PENS_T1	3	2	-1	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
9/4/2024 12:22	58402	MORO_T1	0	0	0	0	0	0	0.02	0.05	2	2	0	1500	1500	0
9/4/2024 12:24	15201	SFAR_T1	0	0	0	0	0	0	0.01	0.03	2	2	0	1800	1800	0
9/4/2024 12:25	64101	REFR_T1	1	1	0	0.5	0.5	0	-0.01	0	0	0	0	0	0	0
9/4/2024 12:25	67602	WARW_T2	0	0	0	0	0	0	1.5	1.52	1	1	0	300	300	0
9/4/2024 12:26	67602	WARW_T2	0	0	0	0	0	0	3	3.04	2	2	0	600	600	0
9/4/2024 12:26	67804	WLAN_T1	3	5	2	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/4/2024 12:26	57002	WHIH_T2	0	0	0	0	0	0	-1.15	-1.19	1	1	0	1200	1200	0
9/4/2024 12:26	67803	WLAN_T1	1	4	3	0.4	0.28	-0.12	-1.58	-1.6	0	0	0	0	0	0
9/4/2024 12:26	62105	ELAN_T1	4	4	0	0.45	0.48	0.03	0	0	0	0	0	0	0	0
9/4/2024 12:26	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 12:26	57003	WHIH_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/4/2024 12:26	62102	ELAN_T1	1	1	0	1.1	1.1	0	0.71	0.74	0	0	0	0	0	0
9/4/2024 12:26	64101	REFR_T1	1	1	0	0.5	0.5	0	-0.01	0	0	0	0	0	0	0
9/4/2024 12:27	53901	HALI_T2	2	6	4	0.55	0.57	0.02	0	0	0	0	0	0	0	0
9/4/2024 12:27	59102	WALK_T2	4	5	1	0.5	0.5	0	0	0	0	0	0	0	0	0
9/4/2024 12:27	67602	WARW_T2	0	0	0	0	0	0	6	6.07	4	4	0	1200	1200	0
9/4/2024 12:27	53902	HALI_T2	3	3	0	1.8	2.43	0.63	-0.1	-0.13	0	0	0	0	0	0
9/4/2024 12:27	53903	HALI_T2	3	7	4	0.37	0.51	0.14	0	0	0	0	0	0	0	0
9/4/2024 12:27	59101	WALK_T2	2	2	0	2.15	1.9	-0.25	1.37	2.21	1	0	-1	600	0	-600
9/4/2024 12:28	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 12:28	60901	DONG_T2	7	6	-1	0.51	0.48	-0.03	0	0	0	0	0	0	0	0
9/4/2024 12:28	60904	DONG_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/4/2024 12:28	60902	DONG_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/4/2024 12:28	64101	REFR_T1	1	1	0	0.5	0.5	0	-0.01	0	0	0	0	0	0	0
9/4/2024 12:28	11202	ELHE_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
9/4/2024 12:28	44801	EDAN_T2	142	138	-4	0.63	0.57	-0.06	-1.53	-1.49	0	0	0	0	0	0
9/4/2024 12:28	67602	WARW_T2	0	0	0	0	0	0	1.5	1.52	1	1	0	300	300	0
9/4/2024 12:29	62102	ELAN_T1	1	1	0	1.1	1.1	0	0.71	0.74	0	0	0	0	0	0
9/4/2024 12:29	44801	EDAN_T2	142	138	-4	0.63	0.57	-0.06	-1.53	-1.49	0	0	0	0	0	0
9/4/2024 12:29	62105	ELAN_T1	4	4	0	0.45	0.48	0.03	0	0	0	0	0	0	0	0
9/4/2024 12:31	12002	HATF_T1	1	1	0	0.3	0.4	0.1	0.65	0.68	1	1	0	1200	1200	0
9/4/2024 12:31	24105	EHAZ_T1	4	4	0	6.83	6.75	-0.08	0	0	0	0	0	0	0	0
9/4/2024 12:31	24102	EHAZ_T1	0	0	0	0	0	0	0.35	0.51	0	0	0	0	0	0
9/4/2024 12:31	24101	EHAZ_T1	0	12	12	0	0.6	0.6	0	0	0	0	0	0	0	0
9/4/2024 12:31	53901	HALI_T2	3	5	2	0.43	0.64	0.21	-1.19	-1.2	0	0	0	0	0	0
9/4/2024 12:31	11301	EMMA_T1	0	0	0	0	0	0	-0.64	-0.58	0	0	0	0	0	0
9/4/2024 12:31	12001	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 12:31	11303	EMMA_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
9/4/2024 12:31	12006	HATF_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/4/2024 12:31	53902	HALI_T2	3	3	0	1.97	2.47	0.5	0	0	0	0	0	0	0	0
9/4/2024 12:31	53903	HALI_T2	3	7	4	0.43	0.57	0.14	0	0	0	0	0	0	0	0
9/4/2024 12:31	11302	EMMA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/4/2024 12:32	63202	MGTN_T2	0	0	0	0	0	0	-1.13	-1.08	1	1	0	900	900	0
9/4/2024 12:32	61301	EARL_T1	0	0	0	0	0	0	-1.05	-1.01	2	2	0	1800	1800	0
9/4/2024 12:33	53901	HALI_T2	3	5	2	0.43	0.64	0.21	-2.38	-2.4	0	0	0	0	0	0
9/4/2024 12:33	53902	HALI_T2	3	3	0	1.97	2.47	0.5	0	0	0	0	0	0	0	0
9/4/2024 12:33	63602	LETO_T1	1	1	0	0.1	0.4	0.3	-0.13	-0.01	0	0	0	0	0	0
9/4/2024 12:33	53903	HALI_T2	3	7	4	0.43	0.57	0.14	0	0	0	0	0	0	0	0
9/4/2024 12:34	63602	LETO_T1	1	1	0	0.1	0.4	0.3	-0.13	-0.01	0	0	0	0	0	0
9/4/2024 12:35	63602	LETO_T1	1	1	0	0.1	0.4	0.3	-0.13	-0.01	0	0	0	0	0	0
9/4/2024 12:36	47403	PENS_T1	1	5	4	1.5	0.68	-0.82	0	0	0	0	0	0	0	0
9/4/2024 12:36	47402	PENS_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/4/2024 12:36	47401	PENS_T1	2	2	0	0.7	0.95	0.25	0.75	0.83	0	0	0	0	0	0
9/4/2024 12:37	47403	PENS_T1	1	5	4	1.5	0.68	-0.82	0	0	0	0	0	0	0	0
9/4/2024 12:37	47401	PENS_T1	2	2	0	0.7	0.95	0.25	1.51	1.67	0	0	0	0	0	0
9/4/2024 12:37	47402	PENS_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/4/2024 12:38	47401	PENS_T1	2	2	0	0.7	0.95	0.25	0.75	0.83	0	0	0	0	0	0
9/4/2024 12:38	47402	PENS_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/4/2024 12:38	47403	PENS_T1	1	5	4	1.5	0.68	-0.82	0	0	0	0	0	0	0	0
9/4/2024 12:38	64101	REFR_T1	1	0	-1	0.5	0	-0.5	0	0.08	0	0	0	0	0	0
9/4/2024 12:39	23001	SAIO_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
9/4/2024 12:39	23002	SAIO_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
9/4/2024 12:40	64101	REFR_T1	1	0	-1	0.5	0	-0.5	0	0.08	0	0	0	0	0	0
9/4/2024 12:41	13701	SCHN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/4/2024 12:41	13704	SCHN_T2	1	1	0	0.3	0.3	0	-0.02	-0.1	0	0	0	0	0	0
9/4/2024 12:42	64101	REFR_T1	1	0	-1	0.5	0	-0.5	0	0.08	0	0	0	0	0	0
9/4/2024 12:42	44801	EDAN_T2	138	118	-20	0.57	0.54	-0.03	0	0	0	0	0	0	0	0
9/4/2024 12:42	57002	WHIH_T2	0	0	0	0	0	0	-1.19	-1.11	1	1	0	1200	1200	0
9/4/2024 12:42	57003	WHIH_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
9/4/2024 12:42	44802	EDAN_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
9/4/2024 12:43	49803	UNIV_T1	2	1	-1	3.05	6.1	3.05	-0.83	-0.88	0	0	0	0	0	0
9/4/2024 12:47	40101	HUNT_T2	1	2	1	0.1	0.2	0.1	-0.29	-0.35	0	0	0	0	0	0
9/4/2024 12:47	63403	HONY_T2	0	0	0	0	0	0	0.02	0.01	1	1	0	600	600	0
9/4/2024 12:53	55105	WERT_T1	0	0	0	0	0	0	-0.3	-0.27	1	1	0	900	900	0
9/4/2024 12:54	47401	PENS_T1	2	3	1	0.7	0.9	0.2	0.83	0.84	0	0	0	0	0	0
9/4/2024 12:54	62102	ELAN_T1	1	1	0	1	0.7	-0.3	0.8	0.76	0	0	0	0	0	0
9/4/2024 12:54	47402	PENS_T1	2	4	2	0.3	0.63	0.33	0	0	0	0	0	0	0	0
9/4/2024 12:54	55405	SHER_T1	6	9	3	0.67	0.42	-0.25	-0.17	-0.17	0	0	0	0	0	0
9/4/2024 12:54	62105	ELAN_T1	2	3	1	0.45	0.27	-0.18	0	0	0	0	0	0	0	0
9/4/2024 12:54	47403	PENS_T1	1	7	6	1.1	0.81	-0.29	0	0	0	0	0	0	0	0
9/4/2024 12:57	45402	WBLO_T2	70	73	3	0.43	0.47	0.04	-1.01	-1	1	1	0	900	900	0
9/4/2024 12:57	44301	BEAV_T2	1	2	1	0.5	1.5	1	0	0	0	0	0	0	0	0
9/4/2024 12:58	57003	WHIH_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/4/2024 12:58	57004	WHIH_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
9/4/2024 12:58	16004	DORN_T1	1	2	1	0.4	0.75	0.35	0	0	0	0	0	0	0	0
9/4/2024 12:58	16005	DORN_T1	1	3	2	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
9/4/2024 12:58	16001	DORN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/4/2024 13:00	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 13:00	40901	JESH_T1	1	1	0	1	0.9	-0.1	0.37	0.42	0	0	0	0	0	0
9/4/2024 13:02	45802	HEGI_T2	10	20	10	0.31	0.43	0.12	0.62	0.69	1	1	0	900	900	0
9/4/2024 13:03	41002	LAUR_T2	1	1	0	1.9	2.3	0.4	0.09	0.11	0	0	0	0	0	0
9/4/2024 13:03	41001	LAUR_T2	2	2	0	1.35	1.45	0.1	0	0	0	0	0	0	0	0
9/4/2024 13:03	45802	HEGI_T2	10	20	10	0.31	0.43	0.12	0.62	0.69	1	1	0	900	900	0
9/4/2024 13:03	53501	EVIL_T2	2	3	1	0.45	0.47	0.02	-0.02	-0.02	6	6	0	2400	2400	0
9/4/2024 13:04	52403	GRPA_T2	71	75	4	0.83	0.86	0.03	-0.01	-0.02	0	0	0	0	0	0
9/4/2024 13:04	52402	GRPA_T2	7	16	9	0.34	0.41	0.07	0	0	0	0	0	0	0	0
9/4/2024 13:05	63602	LETO_T1	0	1	1	0	0.8	0.8	0.03	0.03	0	0	0	0	0	0
9/4/2024 13:06	66901	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 13:06	21701	SUBU_T1	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
9/4/2024 13:06	57403	SPAN_T1	5	4	-1	0.22	0.35	0.13	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/4/2024 13:06	66903	SHIL_T2	1	1	0	1.4	1.4	0	-0.79	-0.74	0	0	0	0	0	0
9/4/2024 13:06	21705	SUBU_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
9/4/2024 13:06	57401	SPAN_T1	3	3	0	0.57	0.7	0.13	0.42	0.46	0	0	0	0	0	0
9/4/2024 13:06	66902	SHIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/4/2024 13:06	53501	EVIL_T2	2	3	1	0.45	0.47	0.02	-0.01	-0.01	2	2	0	800	800	0
9/4/2024 13:06	21704	SUBU_T1	0	0	0	0	0	0	-2.17	-2.03	2	2	0	2400	2400	0
9/4/2024 13:07	58705	ROSE_T2	5	5	0	1.84	1.66	-0.18	0	0	0	0	0	0	0	0
9/4/2024 13:07	66902	SHIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/4/2024 13:07	58701	ROSE_T2	0	0	0	0	0	0	-0.08	-0.09	1	1	0	600	600	0
9/4/2024 13:07	66903	SHIL_T2	1	1	0	1.4	1.4	0	-0.79	-0.74	0	0	0	0	0	0
9/4/2024 13:07	66901	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 13:08	45601	WOOL_T1	0	0	0	0	0	0	1.13	1.14	0	0	0	0	0	0
9/4/2024 13:08	45602	WOOL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 13:08	14802	TREI_T2	0	5	5	0	0.2	0.2	0.71	0.72	0	0	0	0	0	0
9/4/2024 13:08	14801	TREI_T2	3	7	4	0.37	0.51	0.14	0	0	0	0	0	0	0	0
9/4/2024 13:09	57403	SPAN_T1	5	4	-1	0.22	0.35	0.13	0	0	0	0	0	0	0	0
9/4/2024 13:09	51304	WIND_T2	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
9/4/2024 13:09	57401	SPAN_T1	3	3	0	0.57	0.7	0.13	0.46	0.51	0	0	0	0	0	0
9/4/2024 13:09	60701	BREC_T1	0	0	0	0	0	0	-0.77	-0.16	2	1	-1	1200	600	-600
9/4/2024 13:09	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 13:09	25603	ARRO_T1	0	0	0	0	0	0	-0.06	-0.02	0	0	0	0	0	0
9/4/2024 13:10	57403	SPAN_T1	5	4	-1	0.22	0.35	0.13	0	0	0	0	0	0	0	0
9/4/2024 13:10	60701	BREC_T1	0	0	0	0	0	0	-0.77	-0.16	2	1	-1	1200	600	-600
9/4/2024 13:10	57401	SPAN_T1	3	3	0	0.57	0.7	0.13	0.46	0.51	0	0	0	0	0	0
9/4/2024 13:11	14801	TREI_T2	3	7	4	0.37	0.51	0.14	0	0	0	0	0	0	0	0
9/4/2024 13:11	15204	SFAR_T2	1	1	0	0.4	0.4	0	0.2	0.24	0	0	0	0	0	0
9/4/2024 13:11	61506	EPET_T2	0	0	0	0	0	0	-1.43	-1.42	2	2	0	1800	1800	0
9/4/2024 13:11	14802	TREI_T2	0	5	5	0	0.2	0.2	0.71	0.72	0	0	0	0	0	0
9/4/2024 13:11	15203	SFAR_T2	7	10	3	0.57	0.52	-0.05	0	0	0	0	0	0	0	0
9/4/2024 13:11	25603	ARRO_T1	0	0	0	0	0	0	-0.06	-0.02	0	0	0	0	0	0
9/4/2024 13:11	61501	EPET_T2	1	1	0	6.2	5.7	-0.5	0	0	0	0	0	0	0	0
9/4/2024 13:12	60701	BREC_T1	0	0	0	0	0	0	-1.54	-0.32	4	2	-2	2400	1200	-1200
9/4/2024 13:13	44801	EDAN_T2	118	129	11	0.48	0.51	0.03	0	0	0	0	0	0	0	0
9/4/2024 13:13	57203	ROSS_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/4/2024 13:13	60701	BREC_T1	0	0	0	0	0	0	-1.54	-0.32	4	2	-2	2400	1200	-1200
9/4/2024 13:13	44802	EDAN_T2	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
9/4/2024 13:13	57205	ROSS_T1	3	2	-1	0.5	0.75	0.25	0.43	0.5	0	0	0	0	0	0
9/4/2024 13:14	10805	CHHI_T2	1	1	0	8.6	8.1	-0.5	-1.54	-1.8	4	4	0	3600	3600	0
9/4/2024 13:14	11404	FARM_T1	0	1	1	0	0.1	0.1	-0.04	0.01	1	1	0	1200	1200	0
9/4/2024 13:14	11405	FARM_T1	2	1	-1	0.65	1.4	0.75	0	0	0	0	0	0	0	0
9/4/2024 13:14	60701	BREC_T1	0	0	0	0	0	0	-0.77	-0.16	2	1	-1	1200	600	-600
9/4/2024 13:14	11402	FARM_T1	3	4	1	0.27	0.35	0.08	0	0	0	0	0	0	0	0
9/4/2024 13:14	11401	FARM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 13:15	60701	BREC_T1	0	0	0	0	0	0	-0.77	-0.16	2	1	-1	1200	600	-600
9/4/2024 13:15	63602	LETO_T1	1	1	0	0.8	0.7	-0.1	0.03	0.08	0	0	0	0	0	0
9/4/2024 13:22	56501	ROCK_T2	3	3	0	0.27	0.13	-0.14	0.22	0.2	0	0	0	0	0	0
9/4/2024 13:22	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 13:22	56504	ROCK_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
9/4/2024 13:23	67401	WAKE_T2	3	3	0	0.47	0.47	0	-0.92	-0.97	0	0	0	0	0	0
9/4/2024 13:25	49804	UNIV_T1	0	1	1	0	0.1	0.1	1.28	1.28	0	0	0	0	0	0
9/4/2024 13:25	49803	UNIV_T1	4	4	0	1.68	1.78	0.1	-2.01	-2	0	0	0	0	0	0
9/4/2024 13:26	24603	VARD_T2	8	10	2	1.13	1.01	-0.12	0	0	0	0	0	0	0	0
9/4/2024 13:26	24602	VARD_T2	1	11	10	1.5	0.27	-1.23	0	0	0	0	0	0	0	0
9/4/2024 13:27	23901	EFMO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 13:27	23902	EFMO_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/4/2024 13:29	10903	COOP_T2	1	3	2	1.4	0.63	-0.77	0.26	0.17	1	1	0	600	600	0
9/4/2024 13:29	44801	EDAN_T2	120	128	8	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
9/4/2024 13:29	49803	UNIV_T1	4	4	0	1.68	1.78	0.1	-2.01	-2	0	0	0	0	0	0
9/4/2024 13:29	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 13:29	26803	JAFR_T1	0	1	1	0	0.7	0.7	-0.15	-0.16	1	1	0	900	900	0
9/4/2024 13:29	44802	EDAN_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
9/4/2024 13:29	10901	COOP_T2	3	3	0	0.33	0.5	0.17	0	0	0	0	0	0	0	0
9/4/2024 13:30	67502	WEWI_T2	3	4	1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
9/4/2024 13:30	67503	WEWI_T2	1	1	0	8	8.1	0.1	0.07	0.08	0	0	0	0	0	0
9/4/2024 13:30	14204	EALL_T2	0	0	0	0	0	0	0.65	0.56	0	0	0	0	0	0
9/4/2024 13:31	23901	EFMO_T2	2	0	-2	0.1	0	-0.1	0.15	0.15	0	0	0	0	0	0
9/4/2024 13:31	42902	MIDD_T2	3	2	-1	0.27	0.15	-0.12	-0.48	-0.49	1	1	0	600	600	0
9/4/2024 13:31	23902	EFMO_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
9/4/2024 13:34	53501	EVIL_T2	3	4	1	0.33	0.6	0.27	-0.01	-0.01	2	3	1	800	1700	900
9/4/2024 13:34	44202	POIN_T2	0	1	1	0	0.3	0.3	-0.02	-0.45	1	1	0	1200	1200	0
9/4/2024 13:35	16203	POFA_T2	4	5	1	0.28	0.3	0.02	0	0	0	0	0	0	0	0
9/4/2024 13:35	42902	MIDD_T2	3	2	-1	0.27	0.15	-0.12	-0.48	-0.49	1	1	0	600	600	0
9/4/2024 13:37	16203	POFA_T2	4	5	1	0.28	0.3	0.02	0	0	0	0	0	0	0	0
9/4/2024 13:38	67702	WEIN_T2	2	2	0	0.4	0.95	0.55	0.23	0.25	0	0	0	0	0	0
9/4/2024 13:38	13303	ORVI_T1	0	3	3	0	0.13	0.13	1.44	1.43	0	0	0	0	0	0
9/4/2024 13:38	67703	WERN_T2	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
9/4/2024 13:40	57401	SPAN_T1	3	4	1	0.63	0.6	-0.03	0.23	0	1	1	0	600	600	0
9/4/2024 13:40	57403	SPAN_T1	4	5	1	0.28	0.36	0.08	0	0	0	0	0	0	0	0
9/4/2024 13:44	47001	HUGH_T2	3	4	1	7.1	5.28	-1.82	0.07	0.18	0	0	0	0	0	0
9/4/2024 13:45	28801	LAKE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 13:45	53501	EVIL_T2	3	4	1	0.6	0.6	0	-0.01	-0.01	3	3	0	1700	1700	0
9/4/2024 13:45	11101	EGYP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/4/2024 13:45	28805	LAKE_T1	1	1	0	0.7	0.6	-0.1	-0.2	-0.19	0	0	0	0	0	0
9/4/2024 13:45	11104	EGYP_T1	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
9/4/2024 13:45	28803	LAKE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 13:45	10805	CHHI_T2	1	1	0	7.4	8.7	1.3	-1.17	-0.49	2	1	-1	1800	600	-1200
9/4/2024 13:45	11102	EGYP_T1	3	3	0	0.37	0.4	0.03	0	0	0	0	0	0	0	0
9/4/2024 13:47	47001	HUGH_T2	4	4	0	5.28	5.2	-0.08	0.07	0.18	0	0	0	0	0	0
9/4/2024 13:48	16202	POFA_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
9/4/2024 13:50	53501	EVIL_T2	3	4	1	0.6	0.6	0	-0.01	-0.01	3	3	0	1700	1700	0
9/4/2024 13:51	57401	SPAN_T1	2	5	3	0.8	0.6	-0.2	0.23	0	1	1	0	600	600	0
9/4/2024 13:51	57403	SPAN_T1	4	5	1	0.18	0.34	0.16	0	0	0	0	0	0	0	0
9/4/2024 13:51	53802	MBRG_T2	0	0	0	0	0	0	0.35	0.47	0	0	0	0	0	0
9/4/2024 13:52	66901	SHIL_T2	1	0	-1	0.2	0	-0.2	-1.2	-1.19	1	1	0	1200	1200	0
9/4/2024 13:52	66902	SHIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/4/2024 13:52	66903	SHIL_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
9/4/2024 13:53	67703	WERN_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
9/4/2024 13:53	67702	WERN_T2	2	2	0	0.5	0.95	0.45	0.25	0.28	0	0	0	0	0	0
9/4/2024 13:54	64101	REFR_T1	0	1	1	0	0.1	0.1	0.1	0.21	0	0	0	0	0	0
9/4/2024 13:54	53802	MBRG_T2	0	0	0	0	0	0	0.47	0.42	0	0	0	0	0	0
9/4/2024 13:55	64101	REFR_T1	0	1	1	0	0.1	0.1	0.03	0.07	0	0	0	0	0	0
9/4/2024 13:56	64101	REFR_T1	0	1	1	0	0.1	0.1	0.03	0.07	0	0	0	0	0	0
9/4/2024 13:57	64101	REFR_T1	0	1	1	0	0.1	0.1	0.07	0.14	0	0	0	0	0	0
9/4/2024 13:58	10805	CHHI_T2	1	1	0	7.4	8.7	1.3	-0.49	-0.33	1	1	0	600	600	0
9/4/2024 13:59	64101	REFR_T1	0	1	1	0	0.1	0.1	0.03	0.07	0	0	0	0	0	0
9/4/2024 13:59	10801	CHHI_T1	8	6	-2	0.96	0.68	-0.28	-0.53	-0.57	1	1	0	900	900	0
9/4/2024 14:01	53802	HEGI_T2	0	0	0	0	0	0	0.6	0.65	1	1	0	900	900	0
9/4/2024 14:02	53601	DALM_T2	1	1	0	0.3	0.6	0.3	-0.26	-0.29	1	1	0	900	900	0
9/4/2024 14:05	45802	HEGI_T2	0	0	0	0	0	0	0.6	0.65	1	1	0	900	900	0
9/4/2024 14:06	57401	SPAN_T1	4	2	-2	0.6	0.95	0.35	0	0.1	1	1	0	600	600	0
9/4/2024 14:06	57403	SPAN_T1	5	2	-3	0.34	0.4	0.06	0	0	0	0	0	0	0	0
9/4/2024 14:07	52403	GRPA_T2	42	42	0	0.56	0.52	-0.04	0.05	0.03	0	0	0	0	0	0
9/4/2024 14:07	52402	GRPA_T2	9	9	0	0.54	0.58	0.04	0	0	0	0	0	0	0	0
9/4/2024 14:11	63501	HEID_TBK1-2	48	47	-1	0.69	0.94	0.25	0.35	0.39	1	1	0	900	900	0
9/4/2024 14:12	66501	SMAN_T2	2	1	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
9/4/2024 14:12	66502	SMAN_T2	5	1	-4	0.3	0.3	0	0	0	0	0	0	0	0	0
9/4/2024 14:12	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/4/2024 14:16	65402	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 14:16	51603	DUKE_T1	0	0	0	0	0	0	-0.22	-0.28	0	0	0	0	0	0
9/4/2024 14:17	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 14:17	40901	JESH_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/4/2024 14:18	12401	MILF_T1	2	2	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/4/2024 14:18	12403	MILF_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/4/2024 14:18	12402	MILF_T1	1	5	4	0.7	0.4	-0.3	1.14	1.15	0	0	0	0	0	0
9/4/2024 14:22	57401	SPAN_T1	2	2	0	0.9	0.95	0.05	0.13	0.13	1	1	0	600	600	0
9/4/2024 14:22	57403	SPAN_T1	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
9/4/2024 14:24	14802	TREI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/4/2024 14:24	14801	TREI_T2	5	6	1	0.54	0.55	0.01	0.69	0.72	0	0	0	0	0	0
9/4/2024 14:25	67703	WERN_T2	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
9/4/2024 14:25	67702	WERN_T2	2	2	0	0.65	0.55	-0.1	0.25	0.27	0	0	0	0	0	0
9/4/2024 14:26	45602	WOOL_T1	0	1	1	0	0.2	0.2	0.77	0.78	0	0	0	0	0	0
9/4/2024 14:27	67203	TEHI_T1	2	1	-1	0.35	0	-0.35	0	0	0	0	0	0	0	0
9/4/2024 14:27	67201	TEHI_T1	5	3	-2	0.7	0.83	0.13	0.5	0.54	2	2	0	1500	1500	0
9/4/2024 14:28	41602	CLEV_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/4/2024 14:28	63501	HEID_TBK1-2	47	47	0	0.94	0.98	0.04	0.39	0.39	1	1	0	900	900	0
9/4/2024 14:28	44301	BEAV_T2	0	4	4	0	0.35	0.35	0.85	1.21	1	1	0	600	600	0
9/4/2024 14:29	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 14:29	44301	BEAV_T2	0	4	4	0	0.35	0.35	1.7	2.41	2	2	0	1200	1200	0
9/4/2024 14:29	41602	CLEV_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/4/2024 14:29	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 14:29	66502	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/4/2024 14:30	55101	WERT_T1	0	0	0	0	0	0	-1.18	-1.27	3	3	0	2400	2400	0
9/4/2024 14:32	65005	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 14:32	65001	NEFF_T2	0	0	0	0	0	0	-0.23	-0.23	1	1	0	1200	1200	0
9/4/2024 14:32	65003	NEFF_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/4/2024 14:33	13502	MCMI_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
9/4/2024 14:33	51202	MTON_T2	0	0	0	0	0	0	-0.99	-1	1	1	0	1200	1200	0
9/4/2024 14:34	52402	GRPA_T2	9	11	2	0.58	0.49	-0.09	0	0	0	0	0	0	0	0
9/4/2024 14:34	52403	GRPA_T2	35	24	-11	0.43	0.34	-0.09	0.03	0.03	0	0	0	0	0	0
9/4/2024 14:34	51202	MTON_T2	0	0	0	0	0	0	-0.99	-1	1	1	0	1200	1200	0
9/4/2024 14:37	41902	REED_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/4/2024 14:37	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 14:38	53501	EVIL_T2	4	4	0	0.7	0.73	0.03	-0.01	-0.01	2	2	0	800	800	0
9/4/2024 14:40	46903	MNTG_T2	7	7	0	0.93	0.79	-0.14	0	0	0	0	0	0	0	0
9/4/2024 14:40	46901	MNTG_T2	0	0	0	0	0	0	0.41	0.59	1	1	0	1200	1200	0
9/4/2024 14:42	46903	MNTG_T2	7	7	0	0.93	0.79	-0.14	0	0	0	0	0	0	0	0
9/4/2024 14:42	45602	WOOL_T1	0	1	1	0	0.2	0.2	0.78	0.75	0	0	0	0	0	0
9/4/2024 14:42	46902	MNTG_T2	0	0	0	0	0	0	-0.54	-0.53	1	1	0	600	600	0
9/4/2024 14:43	46903	MNTG_T2	7	7	0	0.93	0.79	-0.14	0.39	0.25	1	1	0	600	600	0
9/4/2024 14:43	48902	FOSP_T2	0	5	5	0	0.2	0.2	-0.43	-0.57	1	1	0	1200	1200	0
9/4/2024 14:43	48901	FOSP_T2	1	1	0	0.5	0.8	0.3	-0.06	-0.11	1	1	0	600	600	0
9/4/2024 14:44	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 14:44	67503	WEWI_T2	1	1	0	7.9	7.7	-0.2	0.1	0.11	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/4/2024 14:44	48901	FOSP_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/4/2024 14:44	67502	WEWI_T2	3	3	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/4/2024 14:44	48902	FOSP_T2	0	5	5	0	0.2	0.2	-0.43	-0.57	1	1	0	1200	1200	0
9/4/2024 14:44	62604	ENGL_T1	0	0	0	0	0	0	-0.45	-0.33	1	1	0	600	600	0
9/4/2024 14:45	11102	EGYP_T1	3	2	-1	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
9/4/2024 14:45	11104	EGYP_T1	0	0	0	0	0	0	0.75	0.77	0	0	0	0	0	0
9/4/2024 14:46	11102	EGYP_T1	3	2	-1	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
9/4/2024 14:46	11104	EGYP_T1	0	0	0	0	0	0	1.49	1.53	0	0	0	0	0	0
9/4/2024 14:47	41902	REED_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/4/2024 14:47	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 14:48	46101	MACI_T2	0	0	0	0	0	0	0.01	-0.08	1	1	0	1200	1200	0
9/4/2024 14:48	20601	GRWO_T2	10	5	-5	0.37	0	-0.37	1.28	1.26	0	0	0	0	0	0
9/4/2024 14:50	58402	MORO_T1	0	0	0	0	0	0	0.06	-0.07	2	2	0	1500	1500	0
9/4/2024 14:52	65205	PRIN_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
9/4/2024 14:53	59202	THOM_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
9/4/2024 14:53	45602	WOOL_T1	1	3	2	0.2	0.17	-0.03	0.75	0.75	0	0	0	0	0	0
9/4/2024 14:55	64101	REFR_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
9/4/2024 14:56	59202	THOM_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
9/4/2024 14:57	64101	REFR_T1	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
9/4/2024 14:58	64101	REFR_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
9/4/2024 14:59	64101	REFR_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
9/4/2024 14:59	43402	BENT_T1	2	1	-1	0.55	0.1	-0.45	-0.89	-0.89	2	2	0	1200	1200	0
9/4/2024 15:01	29402	BELT_T1	1	1	0	7.5	7.5	0	0	0	0	0	0	0	0	0
9/4/2024 15:02	47101	MARL_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 15:02	47104	MARL_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
9/4/2024 15:03	53501	EVIL_T2	2	2	0	0.65	0.85	0.2	-0.01	-0.01	2	2	0	800	800	0
9/4/2024 15:04	57401	SPAN_T1	2	2	0	0.75	0.8	0.05	0.11	0.18	1	1	0	600	600	0
9/4/2024 15:04	50506	MECH_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
9/4/2024 15:04	57403	SPAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/4/2024 15:04	40902	JESH_T1	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
9/4/2024 15:04	50501	MECH_T1	4	4	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/4/2024 15:04	40901	JESH_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/4/2024 15:04	50502	MECH_T1	1	1	0	2.4	2.4	0	-0.21	-0.22	1	1	0	1200	1200	0
9/4/2024 15:05	13501	MCMI_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
9/4/2024 15:05	13502	MCMI_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
9/4/2024 15:06	58402	MORO_T1	0	0	0	0	0	0	-0.07	-0.05	2	2	0	1500	1500	0
9/4/2024 15:06	53501	EVIL_T2	2	2	0	0.65	0.85	0.2	-0.01	-0.01	2	2	0	800	800	0
9/4/2024 15:08	42201	SHEN_T2	2	1	-1	0.4	0.3	-0.1	0.64	0.64	0	0	0	0	0	0
9/4/2024 15:09	47403	PENS_T1	7	11	4	0.4	0.58	0.18	0	0	0	0	0	0	0	0
9/4/2024 15:09	56504	ROCK_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
9/4/2024 15:09	47402	PENS_T1	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
9/4/2024 15:09	56501	ROCK_T2	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
9/4/2024 15:09	47401	PENS_T1	2	2	0	0.9	0.8	-0.1	0.93	1	0	0	0	0	0	0
9/4/2024 15:09	45602	WOOL_T1	1	2	1	0.2	0.15	-0.05	0.75	0.74	0	0	0	0	0	0
9/4/2024 15:09	53501	EVIL_T2	2	2	0	0.65	0.85	0.2	-0.01	-0.01	2	2	0	800	800	0
9/4/2024 15:10	10602	BLGL_T2	1	3	2	0.1	0.63	0.53	0.7	0.71	0	0	0	0	0	0
9/4/2024 15:12	64101	REFR_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
9/4/2024 15:13	48902	FOSP_T2	5	3	-2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
9/4/2024 15:13	48901	FOSP_T2	1	1	0	0.8	1	0.2	-0.14	-0.15	1	1	0	600	600	0
9/4/2024 15:14	48902	FOSP_T2	5	3	-2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
9/4/2024 15:14	13503	MCMI_T2	5	6	1	0.48	0.4	-0.08	-0.01	0.03	0	0	0	0	0	0
9/4/2024 15:14	48901	FOSP_T2	1	1	0	0.8	1	0.2	-0.14	-0.15	1	1	0	600	600	0
9/4/2024 15:15	48901	FOSP_T2	1	1	0	1	1	0	-0.14	-0.15	1	1	0	600	600	0
9/4/2024 15:15	48902	FOSP_T2	3	6	3	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
9/4/2024 15:15	25402	LAHA_T2	0	1	1	0	0.2	0.2	-0.27	-0.32	0	0	0	0	0	0
9/4/2024 15:15	22901	HARW_T1	0	0	0	0	0	0	-0.27	-0.33	1	1	0	1200	1200	0
9/4/2024 15:16	57101	SPHI_T2	6	0	-6	0.38	0.2	-0.18	0	0	0	0	0	0	0	0
9/4/2024 15:16	57106	SPHI_T2	3	2	-1	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
9/4/2024 15:16	21204	ECAR_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/4/2024 15:16	21202	ECAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 15:16	21206	ECAR_T2	1	2	1	8.2	4.15	-4.05	0.27	0.25	0	0	0	0	0	0
9/4/2024 15:16	57104	SPHI_T2	2	2	0	0.5	0.45	-0.05	-1.3	-1.29	1	1	0	900	900	0
9/4/2024 15:19	60502	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 15:19	60504	NMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/4/2024 15:20	58202	NEWV_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
9/4/2024 15:20	58401	MORO_T1	0	1	1	0	0.1	0.1	-0.02	-0.1	0	0	0	0	0	0
9/4/2024 15:21	58401	MORO_T1	0	1	1	0	0.1	0.1	-0.02	-0.1	0	0	0	0	0	0
9/4/2024 15:21	52402	GRPA_T2	19	10	-9	0.36	0.49	0.13	0	0	0	0	0	0	0	0
9/4/2024 15:21	40101	HUNT_T2	1	0	-1	4.8	0	-4.8	0	0	0	0	0	0	0	0
9/4/2024 15:21	52403	GRPA_T2	61	40	-21	0.65	0.53	-0.12	0.03	0.07	0	0	0	0	0	0
9/4/2024 15:28	11104	EGYP_T1	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
9/4/2024 15:29	46001	BERW_T1	0	0	0	0	0	0	0.83	3.04	0	0	0	0	0	0
9/4/2024 15:29	46005	BERW_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
9/4/2024 15:31	67503	WEWI_T2	1	1	0	7.4	7.2	-0.2	0.21	0.12	0	0	0	0	0	0
9/4/2024 15:35	54001	SDLE_T1	5	4	-1	0.74	0.73	-0.01	0	0	0	0	0	0	0	0
9/4/2024 15:36	58202	NEWV_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
9/4/2024 15:37	67803	WLAN_T1	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
9/4/2024 15:37	52403	GRPA_T2	40	3	-37	0.53	1.03	0.5	0.18	0.09	0	0	0	0	0	0
9/4/2024 15:37	54001	SDLE_T1	5	4	-1	0.74	0.73	-0.01	0	0	0	0	0	0	0	0
9/4/2024 15:37	52402	GRPA_T2	10	6	-4	0.49	0.17	-0.32	0	0	0	0	0	0	0	0
9/4/2024 15:38	54001	SDLE_T1	5	4	-1	0.74	0.73	-0.01	0	0	0	0	0	0	0	0
9/4/2024 15:41	64101	REFR_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
9/4/2024 15:43	20403	ASHF_T2	13	12	-1	0.37	0.32	-0.05	0.7	0.58	0	0	0	0	0	0
9/4/2024 15:43	20402	ASHF_T2	22	15	-7	0.28	0.34	0.06	0	0	0	0	0	0	0	0
9/4/2024 15:43	20401	ASHF_T2	15	14	-1	0.43	0.5	0.07	0	0	0	0	0	0	0	0
9/4/2024 15:45	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 15:46	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 15:46	41902	REED_T1	0	0	0	0	0	0	1.32	1.35	0	0	0	0	0	0
9/4/2024 15:46	67503	WEWI_T2	1	3	2	7.2	6.9	-0.3	0.12	0.14	0	0	0	0	0	0
9/4/2024 15:51	14404	SSLA_T1	3	2	-1	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
9/4/2024 15:51	14401	SSLA_T1	6	3	-3	0.43	0.5	0.07	-0.3	-0.33	0	0	0	0	0	0
9/4/2024 15:51	14403	SSLA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/4/2024 15:51	14402	SSLA_T1	8	8	0	0.51	0.51	0	0	0	0	0	0	0	0	0
9/4/2024 15:53	43506	WWIL_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
9/4/2024 15:53	43505	WWIL_T1	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
9/4/2024 15:53	43504	WWIL_T1	3	4	1	0.17	0.13	-0.04	0.8	0.85	0	0	0	0	0	0
9/4/2024 16:01	46802	HEPB_T1	1	1	0	0.1	0.7	0.6	-0.09	-0.03	0	0	0	0	0	0
9/4/2024 16:01	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 16:02	41902	REED_T1	0	0	0	0	0	0	1.35	1.36	0	0	0	0	0	0
9/4/2024 16:02	41901	REED_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/4/2024 16:06	13503	MCMI_T2	1	1	0	0.5	0.6	0.1	0.03	0.03	0	0	0	0	0	0
9/4/2024 16:11	52401	DERR_T2	1	2	1	1.1	0.1	-1	0.82	0.74	2	2	0	1800	1800	0
9/4/2024 16:13	53601	DALM_T2	1	1	0	0.3	0.4	0.1	-0.77	-0.01	1	0	-1	900	0	-900
9/4/2024 16:13	52402	GRPA_T2	6	3	-3	0.17	0.2	0.03	0	0	0	0	0	0	0	0
9/4/2024 16:13	52403	GRPA_T2	1	1	0	2	1.3	-0.7	0.11	0.11	0	0	0	0	0	0
9/4/2024 16:16	55101	WERT_T1	0	0	0	0	0	0	-1.07	-1.74	3	3	0	2400	2400	0
9/4/2024 16:16	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 16:17	55101	WERT_T1	0	0	0	0	0	0	-2.14	-3.48	6	6	0	4800	4800	0
9/4/2024 16:20	47502	NECO_T1	1	1	0	0.1	0.1	0	0.95	1.01	0	0	0	0	0	0
9/4/2024 16:27	47402	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 16:27	47403	PENS_T1	4	1	-3	0.73	0.2	-0.53	0	0	0	0	0	0	0	0
9/4/2024 16:27	47401	PENS_T1	0	0	0	0	0	0	0.93	0.92	0	0	0	0	0	0
9/4/2024 16:28	67503	WEWI_T2	3	1	-2	2.4	6.7	4.3	0.16	0.14	0	0	0	0	0	0
9/4/2024 16:28	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 16:33	47104	MARL_T1	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
9/4/2024 16:34	12701	MACU_T1	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
9/4/2024 16:34	43202	MVIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/4/2024 16:34	43201	MVIL_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
9/4/2024 16:37	14801	TREI_T2	1	1	0	0.8	0.5	-0.3	0.8	0.85	0	0	0	0	0	0
9/4/2024 16:44	28704	HAML_T2	1	1	0	0.5	0.7	0.2	-0.01	-0.01	0	0	0	0	0	0
9/4/2024 16:44	28703	HAML_T2	2	3	1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/4/2024 16:49	28805	LAKE_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
9/4/2024 16:52	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
9/4/2024 16:52	15702	TANN_T2	0	0	0	0	0	0	-0.11	-0.14	0	0	0	0	0	0
9/4/2024 17:00	55405	SHER_T1	0	3	3	0	0.1	0.1	-0.17	-0.17	0	0	0	0	0	0
9/4/2024 17:01	20603	GRWO_T2	0	0	0	0	0	0	-0.51	-0.53	1	1	0	900	900	0
9/4/2024 17:01	20601	GRWO_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 17:02	20603	GRWO_T2	0	0	0	0	0	0	-0.51	-0.53	1	1	0	900	900	0
9/4/2024 17:02	20601	GRWO_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 17:05	12606	MACA_T1	0	0	0	0	0	0	-0.06	-0.05	1	1	0	900	900	0
9/4/2024 17:07	55002	NEWP_T1	3	3	0	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
9/4/2024 17:07	55001	NEWP_T1	0	0	0	0	0	0	-0.41	-0.4	1	1	0	600	600	0
9/4/2024 17:15	23203	HIRU_T2	8	19	11	0.18	0.14	-0.04	0.17	0.1	0	0	0	0	0	0
9/4/2024 17:15	23201	HIRU_T2	29	25	-4	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
9/4/2024 17:15	23202	HIRU_T2	7	14	7	0.16	0.16	0	0	0	0	0	0	0	0	0
9/4/2024 17:20	65604	QUIL_T2	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
9/4/2024 17:25	60701	BREC_T1	0	0	0	0	0	0	-0.25	-0.28	1	1	0	600	600	0
9/4/2024 17:25	42503	ALTA_T2	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
9/4/2024 17:26	42503	ALTA_T2	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
9/4/2024 17:26	60701	BREC_T1	0	0	0	0	0	0	-0.25	-0.28	1	1	0	600	600	0
9/4/2024 17:27	60701	BREC_T1	0	0	0	0	0	0	-0.25	-0.28	1	1	0	600	600	0
9/4/2024 17:28	60701	BREC_T1	0	0	0	0	0	0	-0.5	-0.56	2	2	0	1200	1200	0
9/4/2024 17:29	60701	BREC_T1	0	0	0	0	0	0	-0.5	-0.56	2	2	0	1200	1200	0
9/4/2024 17:30	60701	BREC_T1	0	0	0	0	0	0	-0.25	-0.28	1	1	0	600	600	0
9/4/2024 17:31	64101	REFR_T1	1661	33	-1628	2.88	0.22	-2.66	0.16	-0.01	0	0	0	0	0	0
9/4/2024 17:32	64101	REFR_T1	1661	33	-1628	2.88	0.22	-2.66	0.32	-0.01	0	0	0	0	0	0
9/4/2024 17:38	66701	STRA_T1	0	0	0	0	0	0	0.25	0.2	1	1	0	600	600	0
9/4/2024 17:39	60701	BREC_T1	0	0	0	0	0	0	-0.28	-0.25	1	1	0	600	600	0
9/4/2024 17:40	64101	REFR_T1	1661	33	-1628	2.88	0.22	-2.66	-0.01	-0.01	0	0	0	0	0	0
9/4/2024 17:41	66701	STRA_T1	0	0	0	0	0	0	0.25	0.2	1	1	0	600	600	0
9/4/2024 17:42	64101	REFR_T1	1661	33	-1628	2.88	0.22	-2.66	-0.01	-0.01	0	0	0	0	0	0
9/4/2024 17:44	60701	BREC_T1	0	0	0	0	0	0	-0.28	-0.25	1	1	0	600	600	0
9/4/2024 17:54	64101	REFR_T1	35	49	14	0.48	0.22	-0.26	-0.01	-0.01	0	0	0	0	0	0
9/4/2024 17:56	12807	MICK_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/4/2024 17:56	12801	MICK_T1	0	0	0	0	0	0	-0.62	-0.66	1	1	0	600	600	0
9/4/2024 17:57	47401	PENS_T1	0	0	0	0	0	0	0.91	0.83	0	0	0	0	0	0
9/4/2024 17:58	10602	BLGL_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
9/4/2024 17:58	12807	MICK_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/4/2024 17:58	12801	MICK_T1	0	0	0	0	0	0	-0.62	-0.66	1	1	0	600	600	0
9/4/2024 17:59	40801	EXCH_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/4/2024 17:59	40802	EXCH_T2	0	1	1	0	0.1	0.1	-0.18	-0.19	0	0	0	0	0	0
9/4/2024 17:59	22903	HARW_T1	1	1	0	1.4	0	-1.4	0	0	0	0	0	0	0	0
9/4/2024 17:59	22904	HARW_T1	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/4/2024 18:01	67503	WEWI_T2	1	1	0	6.5	6.6	0.1	0.28	0.22	0	0	0	0	0	0
9/4/2024 18:03	46102	MACI_T1	0	0	0	0	0	0	0.85	0.84	0	0	0	0	0	0
9/4/2024 18:03	64101	REFR_T1	22	58	36	0.22	0.39	0.17	-0.01	-0.01	0	0	0	0	0	0
9/4/2024 18:03	64503	LAVI_T1	0	0	0	0	0	0	-1.34	-1.42	1	1	0	1200	1200	0
9/4/2024 18:09	43301	WATS_T2	1	3	2	0.1	0.13	0.03	-0.39	-0.39	1	1	0	900	900	0
9/4/2024 18:09	43302	WATS_T2	3	4	1	0.47	1.15	0.68	0	0	0	0	0	0	0	0
9/4/2024 18:10	14802	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 18:10	14801	TREI_T2	0	1	1	0	0.2	0.2	0.79	0.78	0	0	0	0	0	0
9/4/2024 18:11	49804	UNIV_T1	0	1	1	0	0.2	0.2	-0.27	-0.31	0	0	0	0	0	0
9/4/2024 18:11	49803	UNIV_T1	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
9/4/2024 18:12	49803	UNIV_T1	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
9/4/2024 18:12	49804	UNIV_T1	0	1	1	0	0.2	0.2	-0.27	-0.31	0	0	0	0	0	0
9/4/2024 18:14	28403	HART_T2	0	0	0	0	0	0	-0.56	-0.59	1	1	0	900	900	0
9/4/2024 18:15	49803	UNIV_T1	1	1	0	5	4.8	-0.2	0	0	0	0	0	0	0	0
9/4/2024 18:15	49804	UNIV_T1	0	2	2	0	0.15	0.15	-0.27	-0.31	0	0	0	0	0	0
9/4/2024 18:17	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 18:17	40502	CRES_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
9/4/2024 18:18	40502	CRES_T2	0	4	4	0	0.15	0.15	-3.22	-3.38	0	0	0	0	0	0
9/4/2024 18:18	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 18:18	51603	DUKE_T1	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
9/4/2024 18:21	64101	REFR_T1	49	54	5	0.4	0.3	-0.1	-0.01	-0.01	0	0	0	0	0	0
9/4/2024 18:21	40502	CRES_T2	0	4	4	0	0.15	0.15	-1.13	-1.12	0	0	0	0	0	0
9/4/2024 18:21	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 18:23	12002	HATF_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 18:25	45602	WOOL_T1	0	0	0	0	0	0	0.76	0.75	0	0	0	0	0	0
9/4/2024 18:25	63602	LETO_T1	0	0	0	0	0	0	-0.6	-0.65	1	1	0	600	600	0
9/4/2024 18:27	10705	CATA_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
9/4/2024 18:31	64101	REFR_T1	54	31	-23	0.4	0	-0.4	-0.01	-0.01	0	0	0	0	0	0
9/4/2024 18:44	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/4/2024 18:45	46206	DANV_T2	1	1	0	0.5	0.4	-0.1	1.99	1.99	2	2	0	2100	2100	0
9/4/2024 18:45	46203	DANV_T2	1	1	0	6.2	5.9	-0.3	0	0	0	0	0	0	0	0
9/4/2024 18:50	59302	MCAL_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/4/2024 18:50	59301	MCAL_T1	4	3	-1	1.08	1.33	0.25	-1.79	-1.82	1	1	0	600	600	0
9/4/2024 18:51	64101	REFR_T1	31	0	-31	0.31	0	-0.31	-0.01	-0.01	0	0	0	0	0	0
9/4/2024 18:52	64101	REFR_T1	31	0	-31	0.31	0	-0.31	-0.01	-0.01	0	0	0	0	0	0
9/4/2024 19:04	11405	FARM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 19:39	57401	SPAN_T1	2	2	0	0.95	1	0.05	0.08	0.04	1	1	0	600	600	0
9/4/2024 20:05	67203	TEHI_T1	1	1	0	0.4	1.2	0.8	2.63	2.45	2	2	0	1500	1500	0
9/4/2024 20:05	67201	TEHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 20:07	16402	MOPO_T1	0	0	0	0	0	0	0.13	-0.04	0	0	0	0	0	0
9/4/2024 20:11	15702	TANN_T2	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
9/4/2024 20:11	15703	TANN_T2	1	1	0	5.1	4.8	-0.3	0	0	0	0	0	0	0	0
9/4/2024 20:23	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 20:32	45502	DERR_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
9/4/2024 20:38	55001	NEWP_T1	25	59	34	0.17	0.26	0.09	0	0	0	0	0	0	0	0
9/4/2024 20:38	55002	NEWP_T1	4	6	2	0.53	0.67	0.14	-0.23	-0.22	0	0	0	0	0	0
9/4/2024 20:38	63401	HONY_T1	0	0	0	0	0	0	-0.33	-0.31	1	1	0	600	600	0
9/4/2024 20:39	42801	SELI_T1	0	0	0	0	0	0	-0.91	-0.92	1	1	0	1200	1200	0
9/4/2024 20:43	12302	LANA_T2	0	0	0	0	0	0	-1.37	-1.38	2	2	0	1500	1500	0
9/4/2024 20:46	42302	MOWR_T2	0	0	0	0	0	0	0.61	0.54	0	0	0	0	0	0
9/4/2024 20:46	42701	AUGU_T1	0	1	1	0	0.5	0.5	0	0	2	2	0	1800	1800	0
9/4/2024 20:53	59101	WALK_T2	1	1	0	5.8	2.2	-3.6	1.16	1.05	1	1	0	600	600	0
9/4/2024 20:54	59101	WALK_T2	1	1	0	5.8	2.2	-3.6	1.16	1.05	1	1	0	600	600	0
9/4/2024 20:57	60101	COCA_T1	0	0	0	0	0	0	0.34	0.4	0	0	0	0	0	0
9/4/2024 21:00	60101	COCA_T1	0	0	0	0	0	0	0.34	0.4	0	0	0	0	0	0
9/4/2024 21:01	60101	COCA_T1	0	0	0	0	0	0	1.03	1.19	0	0	0	0	0	0
9/4/2024 21:03	60101	COCA_T1	0	0	0	0	0	0	0.34	0.4	0	0	0	0	0	0
9/4/2024 21:04	25603	ARRO_T1	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
9/4/2024 21:04	60101	COCA_T1	0	0	0	0	0	0	0.34	0.4	0	0	0	0	0	0
9/4/2024 21:05	60101	COCA_T1	0	0	0	0	0	0	0.34	0.4	0	0	0	0	0	0
9/4/2024 21:06	52006	LING_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
9/4/2024 21:06	52004	LING_T2	2	2	0	6.15	6.35	0.2	0.19	0.21	0	0	0	0	0	0
9/4/2024 21:06	52002	LING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/4/2024 21:08	58302	NOTT_T1	0	0	0	0	0	0	0.03	0.02	1	1	0	1200	1200	0
9/4/2024 21:20	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:23	12402	MILF_T1	0	0	0	0	0	0	0.72	0.76	0	0	0	0	0	0
9/4/2024 21:24	28704	HAML_T2	1	3	2	1.1	0.43	-0.67	0	0	0	0	0	0	0	0
9/4/2024 21:24	16101	BING_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
9/4/2024 21:24	28703	HAML_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
9/4/2024 21:25	26401	INOR_T1	1	1	0	7.7	7.6	-0.1	0.41	0.4	0	0	0	0	0	0
9/4/2024 21:25	10602	BLGL_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
9/4/2024 21:26	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:26	65604	QVIL_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
9/4/2024 21:26	63602	LETO_T1	0	53	53	0	0.17	0.17	-0.21	-0.24	0	0	0	0	0	0
9/4/2024 21:26	64902	MILL_T2	0	0	0	0	0	0	-0.52	-0.53	1	1	0	900	900	0
9/4/2024 21:26	12606	MACA_T1	0	0	0	0	0	0	-0.17	-0.2	1	1	0	900	900	0
9/4/2024 21:26	63403	HONY_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
9/4/2024 21:26	63402	HONY_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/4/2024 21:27	23102	MOSC_T2	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
9/4/2024 21:27	65001	NEFF_T2	20	60	40	0.11	0.13	0.02	-0.77	-0.82	1	1	0	1200	1200	0
9/4/2024 21:27	66701	STRA_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
9/4/2024 21:27	15203	SFAR_T2	0	0	0	0	0	0	-1.08	-1.13	0	0	0	0	0	0
9/4/2024 21:27	66703	STRA_T1	5	10	5	0.22	0.28	0.06	0	0	0	0	0	0	0	0
9/4/2024 21:27	47104	MARL_T1	0	0	0	0	0	0	-0.8	-0.87	0	0	0	0	0	0
9/4/2024 21:27	65003	NEFF_T2	30	4	-26	0.15	0.43	0.28	0	0	0	0	0	0	0	0
9/4/2024 21:27	28805	LAKE_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
9/4/2024 21:28	44201	POIN_T1	0	0	0	0	0	0	-1.37	-1.4	2	2	0	2100	2100	0
9/4/2024 21:28	67605	WARW_T1	6	14	8	0.2	0.6	0.4	0	0	0	0	0	0	0	0
9/4/2024 21:28	63501	HEID_TBK1-2	48	49	1	0.57	0.39	-0.18	0.57	0.49	0	0	0	0	0	0
9/4/2024 21:28	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:28	67502	WEWI_T2	109	172	63	0.2	0.23	0.03	-1.29	-0.34	1	0	-1	900	0	-900
9/4/2024 21:28	67503	WEWI_T2	1	1	0	8.1	8.4	0.3	0.06	-0.04	0	0	0	0	0	0
9/4/2024 21:29	16402	MOPO_T1	0	0	0	0	0	0	0.04	0.08	0	0	0	0	0	0
9/4/2024 21:29	62604	ENGL_T1	0	0	0	0	0	0	-0.86	-0.84	1	1	0	600	600	0
9/4/2024 21:29	66902	SHIL_T2	1	17	16	0	0.14	0.14	0	0	0	0	0	0	0	0
9/4/2024 21:29	66903	SHIL_T2	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
9/4/2024 21:29	66901	SHIL_T2	7	108	101	0.1	0.14	0.04	0	0	0	0	0	0	0	0
9/4/2024 21:29	60701	BREC_T1	0	0	0	0	0	0	-0.48	-0.47	1	1	0	600	600	0
9/4/2024 21:29	66504	SMAN_T2	0	0	0	0	0	0	-0.52	-0.6	0	0	0	0	0	0
9/4/2024 21:29	66505	SMAN_T2	3	3	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
9/4/2024 21:30	60701	BREC_T1	0	0	0	0	0	0	-0.48	-0.47	1	1	0	600	600	0
9/4/2024 21:30	25402	LAHA_T2	0	0	0	0	0	0	-0.91	-0.91	0	0	0	0	0	0
9/4/2024 21:30	65003	NEFF_T2	4	83	79	0.28	0.17	-0.11	0	0	0	0	0	0	0	0
9/4/2024 21:30	16102	BING_T2	0	0	0	0	0	0	1.02	1.08	0	0	0	0	0	0
9/4/2024 21:30	15702	TANN_T2	1	0	-1	0.1	0	-0.1	-0.35	-0.36	0	0	0	0	0	0
9/4/2024 21:30	61506	EPET_T2	0	0	0	0	0	0	-0.72	-0.79	1	1	0	900	900	0
9/4/2024 21:30	61501	EPET_T2	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
9/4/2024 21:30	45901	AUBU_T1	404	538	134	0.59	0.84	0.25	0	0	0	0	0	0	0	0
9/4/2024 21:30	45902	AUBU_T1	528	736	208	0.66	0.94	0.28	-0.31	-0.38	0	0	0	0	0	0
9/4/2024 21:30	65004	NEFF_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
9/4/2024 21:30	15703	TANN_T2	1	1	0	4.8	4.7	-0.1	0	0	0	0	0	0	0	0
9/4/2024 21:30	15604	NSTR_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
9/4/2024 21:30	20603	GRWO_T2	4	9	5	0.1	0.1	0	-0.66	-0.65	1	1	0	900	900	0
9/4/2024 21:30	13303	ORVI_T1	0	0	0	0	0	0	1.01	1.06	0	0	0	0	0	0
9/4/2024 21:30	65001	NEFF_T2	21	184	163	0.11	0.19	0.08	0	0	0	0	0	0	0	0
9/4/2024 21:31	52404	GRPA_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:31	52403	GRPA_T2	65	122	57	0.74	0.98	0.24	-0.21	-0.21	0	0	0	0	0	0
9/4/2024 21:31	51304	WIND_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
9/4/2024 21:31	67502	WEWI_T2	172	4	-168	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
9/4/2024 21:31	67503	WEWI_T2	1	1	0	8.4	8.5	0.1	0.06	-0.04	0	0	0	0	0	0
9/4/2024 21:31	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:31	12002	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:31	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:31	42601	TUSC_T1	0	1	1	0	0.2	0.2	-0.37	-0.35	2	2	0	1800	1800	0
9/4/2024 21:31	52402	GRPA_T2	4	4	0	0.88	1.28	0.4	0	0	0	0	0	0	0	0
9/4/2024 21:31	67702	WERN_T2	0	0	0	0	0	0	0.23	0.13	0	0	0	0	0	0
9/4/2024 21:32	54502	ENOL_T2	2	12	10	0.25	0.13	-0.12	0	0	0	0	0	0	0	0
9/4/2024 21:32	53903	HALI_T2	2	2	0	1.7	1.7	0	0	0	0	0	0	0	0	0
9/4/2024 21:32	63501	HEID_TBK1-2	46	49	3	0.44	0.42	-0.02	0.57	0.49	0	0	0	0	0	0
9/4/2024 21:32	45501	DERR_T2	0	0	0	0	0	0	0.06	0	2	2	0	1800	1800	0
9/4/2024 21:32	42201	SHEN_T2	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
9/4/2024 21:32	23203	HIRU_T2	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
9/4/2024 21:32	62106	ELAN_T1	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/4/2024 21:32	53902	HALI_T2	1	1	0	6	5.6	-0.4	0	0	0	0	0	0	0	0
9/4/2024 21:32	66505	SMAN_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 21:32	45901	AUBU_T1	404	538	134	0.59	0.84	0.25	0.35	0.34	0	0	0	0	0	0
9/4/2024 21:32	67602	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:32	43108	SMIL_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/4/2024 21:32	11507	FREE_T2	0	0	0	0	0	0	1.02	0.91	0	0	0	0	0	0
9/4/2024 21:32	62101	ELAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:32	63202	MGTN_T2	0	0	0	0	0	0	-1.42	-0.08	1	1	0	900	900	0
9/4/2024 21:32	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:32	20601	GRWO_T2	0	0	0	0	0	0	0.74	0.74	0	0	0	0	0	0
9/4/2024 21:32	54505	ENOL_T2	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
9/4/2024 21:32	46302	ROHR_T1	4	4	0	1.15	1.4	0.25	0.18	0.15	0	0	0	0	0	0
9/4/2024 21:32	14401	SSLA_T1	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
9/4/2024 21:32	48302	ORWI_T2	2	2	0	0.55	0.5	-0.05	-0.08	-0.12	0	0	0	0	0	0
9/4/2024 21:32	66703	STRA_T1	8	10	2	0.31	0.22	-0.09	-0.56	-0.61	0	0	0	0	0	0
9/4/2024 21:32	53901	HALI_T2	3	1	-2	0.53	1.3	0.77	-1.23	-1.24	0	0	0	0	0	0
9/4/2024 21:32	43402	BENT_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
9/4/2024 21:32	29402	BELT_T1	1	1	0	7.3	7.9	0.6	0	0	0	0	0	0	0	0
9/4/2024 21:32	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:32	54501	ENOL_T2	3	3	0	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
9/4/2024 21:32	60701	BREC_T1	0	0	0	0	0	0	-1.44	-1.42	3	3	0	1800	1800	0
9/4/2024 21:32	43105	SMIL_T2	15	16	1	0.18	0.24	0.06	0	0	0	0	0	0	0	0
9/4/2024 21:32	46802	HEPB_T1	1	5	4	1.2	0.34	-0.86	-0.15	-0.16	0	0	0	0	0	0
9/4/2024 21:32	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:32	54506	ENOL_T2	0	0	0	0	0	0	0.14	0.17	1	1	0	600	600	0
9/4/2024 21:32	46301	ROHR_T1	1	2	1	5.4	5.7	0.3	0	0	0	0	0	0	0	0
9/4/2024 21:32	12001	HATF_T1	0	0	0	0	0	0	0.93	0.85	1	1	0	600	600	0
9/4/2024 21:32	57401	SPAN_T1	2	2	0	1.7	1.7	0	0	-0.11	1	1	0	600	600	0
9/4/2024 21:32	60101	COCA_T1	0	0	0	0	0	0	0.37	0.31	0	0	0	0	0	0
9/4/2024 21:32	20603	GRWO_T2	4	9	5	0.1	0.1	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/4/2024 21:32	55508	HERS_T2	2	2	0	1.3	1.3	0	-2.52	-2.52	1	1	0	1200	1200	0
9/4/2024 21:32	10805	CHHI_T2	1	1	0	7.9	7.8	-0.1	-0.75	-0.8	1	1	0	600	600	0
9/4/2024 21:32	62102	ELAN_T1	0	0	0	0	0	0	0.92	0.84	0	0	0	0	0	0
9/4/2024 21:32	29401	BELT_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
9/4/2024 21:32	62105	ELAN_T1	19	152	133	0.11	0.16	0.05	0	0	0	0	0	0	0	0
9/4/2024 21:32	43103	SMIL_T2	15	21	6	0.51	0.47	-0.04	-0.79	-0.82	0	0	0	0	0	0
9/4/2024 21:32	57002	WHHI_T2	0	0	0	0	0	0	-1.38	-0.06	1	0	-1	1200	0	-1200
9/4/2024 21:32	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:32	45902	AUBU_T1	528	736	208	0.66	0.94	0.28	0	0	0	0	0	0	0	0
9/4/2024 21:32	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/4/2024 21:32	43102	SMIL_T2	8	9	1	0.78	0.78	0	0	0	0	0	0	0	0	0
9/4/2024 21:33	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:33	29401	BELT_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
9/4/2024 21:33	50502	MECH_T1	131	133	2	0.43	0.48	0.05	-0.33	-0.41	0	0	0	0	0	0
9/4/2024 21:33	50202	HARR_T3	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:33	60701	BREC_T1	0	0	0	0	0	0	-0.48	-0.47	1	1	0	600	600	0
9/4/2024 21:33	67502	WEWI_T2	172	4	-168	0.23	0.1	-0.13	-1.29	-0.34	1	0	-1	900	0	-900
9/4/2024 21:33	52006	LING_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:33	59302	MCAL_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
9/4/2024 21:33	51304	WIND_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
9/4/2024 21:33	50102	HARR_T3	17	18	1	0.26	0.38	0.12	0	0	0	0	0	0	0	0
9/4/2024 21:33	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:33	67605	WARW_T1	14	19	5	0.39	0.64	0.25	0	0	0	0	0	0	0	0
9/4/2024 21:33	42802	SELI_T1	1	1	0	0.2	0.8	0.6	-1.22	-1.27	1	1	0	900	900	0
9/4/2024 21:33	67503	WEWI_T2	1	1	0	8.4	8.5	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:33	29402	BELT_T1	1	1	0	7.3	7.9	0.6	0	0	0	0	0	0	0	0
9/4/2024 21:33	59202	THOM_T1	21	99	78	0.15	0.17	0.02	0	0	0	0	0	0	0	0
9/4/2024 21:33	51202	MTON_T2	0	0	0	0	0	0	-1.03	-1.04	1	1	0	1200	1200	0
9/4/2024 21:33	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:33	50105	HARR_T3	6	6	0	6.05	5.92	-0.13	0	0	0	0	0	0	0	0
9/4/2024 21:33	48901	FOSP_T2	0	0	0	0	0	0	-0.72	-0.72	2	2	0	1200	1200	0
9/4/2024 21:33	52002	LING_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
9/4/2024 21:33	63602	LETO_T1	0	87	87	0	0.19	0.19	-0.21	-0.24	0	0	0	0	0	0
9/4/2024 21:33	47401	PENS_T1	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
9/4/2024 21:33	13501	MCMI_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
9/4/2024 21:33	64503	LAVI_T1	0	0	0	0	0	0	-0.51	-0.53	1	1	0	1200	1200	0
9/4/2024 21:33	50103	HARR_T3	2	3	1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
9/4/2024 21:33	57001	WHHI_T2	0	0	0	0	0	0	-0.17	-0.22	1	1	0	900	900	0
9/4/2024 21:33	45901	AUBU_T1	404	538	134	0.59	0.84	0.25	0.35	0.34	0	0	0	0	0	0
9/4/2024 21:33	53601	DALM_T2	1	1	0	0.4	0.8	0.4	0.01	0.01	0	0	0	0	0	0
9/4/2024 21:33	50501	MECH_T1	4	4	0	0.8	1.05	0.25	0	0	0	0	0	0	0	0
9/4/2024 21:33	26803	JAFR_T1	0	0	0	0	0	0	-0.31	-0.32	1	1	0	900	900	0
9/4/2024 21:33	59201	THOM_T1	4	11	7	0.1	0.21	0.11	0	0	0	0	0	0	0	0
9/4/2024 21:33	45902	AUBU_T1	528	736	208	0.66	0.94	0.28	0	0	0	0	0	0	0	0
9/4/2024 21:33	50201	HARR_T3	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
9/4/2024 21:33	11901	ETEX_T2	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
9/4/2024 21:33	52004	LING_T2	2	2	0	6.35	6.45	0.1	0.17	0.17	0	0	0	0	0	0
9/4/2024 21:33	14401	SSLA_T1	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
9/4/2024 21:33	59301	MCAL_T1	6	58	52	0.57	0.29	-0.28	-1.1	-1.11	0	0	0	0	0	0
9/4/2024 21:33	50107	HARR_T3	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
9/4/2024 21:34	67605	WARW_T1	14	19	5	0.39	0.64	0.25	0	0	0	0	0	0	0	0
9/4/2024 21:34	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.25	0	0	0	0	0	0
9/4/2024 21:34	57401	SPAN_T1	2	2	0	1.7	1.7	0	0	-0.11	1	1	0	600	600	0
9/4/2024 21:34	62102	ELAN_T1	0	0	0	0	0	0	0.92	0.84	0	0	0	0	0	0
9/4/2024 21:34	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:34	55001	NEWP_T1	1	63	62	0.1	0.33	0.23	0	0	0	0	0	0	0	0
9/4/2024 21:34	60701	BREC_T1	0	0	0	0	0	0	-0.96	-0.94	2	2	0	1200	1200	0
9/4/2024 21:34	62105	ELAN_T1	19	152	133	0.11	0.16	0.05	0.55	0.56	0	0	0	0	0	0
9/4/2024 21:34	67803	WLAN_T1	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
9/4/2024 21:34	47001	HUGH_T2	1	16	15	8.4	0.8	-7.6	-0.76	-0.78	0	0	0	0	0	0
9/4/2024 21:34	22904	HARW_T1	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
9/4/2024 21:34	63602	LETO_T1	0	87	87	0	0.19	0.19	-0.21	-0.24	0	0	0	0	0	0
9/4/2024 21:34	47401	PENS_T1	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
9/4/2024 21:34	45901	AUBU_T1	404	538	134	0.59	0.84	0.25	0	0	0	0	0	0	0	0
9/4/2024 21:34	63501	HEID_TBK1-2	46	49	3	0.44	0.42	-0.02	0.57	0.49	0	0	0	0	0	0
9/4/2024 21:34	62106	ELAN_T1	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/4/2024 21:34	56501	ROCK_T2	2	2	0	0.75	0.85	0.1	0.17	0.14	0	0	0	0	0	0
9/4/2024 21:34	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:34	67804	WLAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:34	47002	HUGH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:34	66903	SHIL_T2	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
9/4/2024 21:34	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:34	67805	WLAN_T1	396	446	50	0.23	0.26	0.03	0	0	0	0	0	0	0	0
9/4/2024 21:34	29402	BELT_T1	1	1	0	7.3	7.9	0.6	0	0	0	0	0	0	0	0
9/4/2024 21:34	20401	ASHF_T2	4	4	0	0.38	0.45	0.07	0	0	0	0	0	0	0	0
9/4/2024 21:34	59201	THOM_T1	4	11	7	0.1	0.21	0.11	0	0	0	0	0	0	0	0
9/4/2024 21:34	66902	SHIL_T2	9	18	9	0.11	0.13	0.02	0	0	0	0	0	0	0	0
9/4/2024 21:34	48902	FOSP_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
9/4/2024 21:34	55002	NEWP_T1	6	6	0	0.7	0.98	0.28	-0.26	-0.27	0	0	0	0	0	0
9/4/2024 21:34	59202	THOM_T1	21	99	78	0.15	0.17	0.02	0	0	0	0	0	0	0	0
9/4/2024 21:34	62101	ELAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:34	66901	SHIL_T2	36	114	78	0.11	0.15	0.04	-1.58	-1.63	1	1	0	1200	1200	0
9/4/2024 21:34	45902	AUBU_T1	528	736	208	0.66	0.94	0.28	-0.62	-0.75	0	0	0	0	0	0
9/4/2024 21:34	40101	HUNT_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
9/4/2024 21:34	57001	WHHI_T2	0	0	0	0	0	0	-0.17	-0.22	1	1	0	900	900	0
9/4/2024 21:34	54001	SDLE_T1	4	5	1	1.05	0.98	-0.07	0	0	0	0	0	0	0	0
9/4/2024 21:34	44802	EDAN_T2	2	150	148	0.2	0.12	-0.08	-0.67	-0.7	0	0	0	0	0	0
9/4/2024 21:34	44801	EDAN_T2	340	354	14	0.72	0.94	0.22	0	0	0	0	0	0	0	0
9/4/2024 21:34	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:34	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:35	57304	MOAL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:35	66504	SMAN_T2	0	0	0	0	0	0	-0.26	-0.3	0	0	0	0	0	0
9/4/2024 21:35	23203	HIRU_T2	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
9/4/2024 21:35	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:35	12604	MACA_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
9/4/2024 21:35	46501	LOHA_T1	0	1	1	0	0	0	0.33	0.24	1	1	0	1200	1200	0
9/4/2024 21:35	57401	SPAN_T1	2	2	0	1.7	1.7	0	0.01	-0.21	2	2	0	1200	1200	0
9/4/2024 21:35	45902	AUBU_T1	528	736	208	0.66	0.94	0.28	-0.31	-0.38	0	0	0	0	0	0
9/4/2024 21:35	51603	DUKE_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
9/4/2024 21:35	14801	TREI_T2	0	0	0	0	0	0	0.55	0.5	0	0	0	0	0	0
9/4/2024 21:35	45901	AUBU_T1	404	538	134	0.59	0.84	0.25	0	0	0	0	0	0	0	0
9/4/2024 21:35	60803	BUCK_T1	8	18	10	0.15	0.34	0.19	0	0	0	0	0	0	0	0
9/4/2024 21:35	67602	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:35	15204	SFAR_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
9/4/2024 21:35	49803	UNIV_T1	1	1	0	4.8	4.6	-0.2	-2.23	-2.31	0	0	0	0	0	0
9/4/2024 21:35	66502	SMAN_T2	0	0	0	0	0	0	0.11	-0.05	0	0	0	0	0	0
9/4/2024 21:35	15703	TANN_T2	1	1	0	4.8	4.7	-0.1	0	0	0	0	0	0	0	0
9/4/2024 21:35	24602	VARD_T2	58	76	18	0.29	0.25	-0.04	0	0	0	0	0	0	0	0
9/4/2024 21:35	60801	BUCK_T1	19	51	32	0.13	0.34	0.21	-0.2	-0.2	0	0	0	0	0	0
9/4/2024 21:35	14802	TREI_T2	0	0	0	0	0	0	0.51	0.48	0	0	0	0	0	0
9/4/2024 21:35	15702	TANN_T2	1	0	-1	0.1	0	-0.1	-0.35	-0.36	0	0	0	0	0	0
9/4/2024 21:35	49804	UNIV_T1	10	1	-9	0.25	0.5	0.25	0	0	0	0	0	0	0	0
9/4/2024 21:35	46506	LOHA_T1	4	3	-1	3.9	6	2.1	0	0	0	0	0	0	0	0
9/4/2024 21:35	22901	HARW_T1	0	0	0	0	0	0	-0.47	-0.44	1	1	0	1200	1200	0
9/4/2024 21:35	57303	MOAL_T2	1	1	0	7.1	6.8	-0.3	0	0	0	0	0	0	0	0
9/4/2024 21:35	54603	SUMM_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:35	54601	SUMM_T2	13	13	0	0.83	1.08	0.25	-1.75	-1.84	2	2	0	2100	2100	0
9/4/2024 21:35	54602	SUMM_T2	0	6	6	0	0.3	0.3	0	0	0	0	0	0	0	0
9/4/2024 21:35	66505	SMAN_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 21:35	14404	SSLA_T1	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
9/4/2024 21:35	46002	BERW_T2	0	0	0	0	0	0	-0.95	-1	1	1	0	900	900	0
9/4/2024 21:35	57306	MOAL_T2	0	0	0	0	0	0	-3.11	-3.14	1	1	0	1200	1200	0
9/4/2024 21:35	25503	MADI_T1	11	126	115	0.15	0.43	0.28	-0.95	-0.98	0	0	0	0	0	0
9/4/2024 21:35	24603	VARD_T2	32	55	23	0.25	0.26	0.01	0	0	0	0	0	0	0	0
9/4/2024 21:35	46504	LOHA_T1	2	20	18	0.65	0.27	-0.38	0	0	0	0	0	0	0	0
9/4/2024 21:35	25501	MADI_T1	3	4	1	1.37	1.13	-0.24	0	0	0	0	0	0	0	0
9/4/2024 21:36	59302	MCAL_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
9/4/2024 21:36	11405	FARM_T1	1	1	0	3.4	3.3	-0.1	0	0	0	0	0	0	0	0
9/4/2024 21:36	53501	EVIL_T2	2	2	0	0.75	0.7	-0.05	-0.01	-0.01	1	1	0	600	600	0
9/4/2024 21:36	44203	POIN_T2	0	0	0	0	0	0	-0.45	-0.61	2	2	0	2100	2100	0
9/4/2024 21:36	14204	EALL_T2	0	0	0	0	0	0	0.51	0.45	0	0	0	0	0	0
9/4/2024 21:36	21204	ECAR_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:36	67703	WERN_T2	0	0	0	0	0	0	-0.69	-0.78	1	1	0	900	900	0
9/4/2024 21:36	58701	ROSE_T2	0	0	0	0	0	0	-0.1	-0.09	1	1	0	600	600	0
9/4/2024 21:36	21206	ECAR_T2	1	1	0	8.2	8.4	0.2	0.05	0.08	0	0	0	0	0	0
9/4/2024 21:36	14801	TREI_T2	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
9/4/2024 21:36	20603	GRWO_T2	4	9	5	0.1	0.1	0	0	0	0	0	0	0	0	0
9/4/2024 21:36	20601	GRWO_T2	0	0	0	0	0	0	0.74	0.73	0	0	0	0	0	0
9/4/2024 21:36	60701	BREC_T1	0	0	0	0	0	0	-0.94	-0.99	2	2	0	1200	1200	0
9/4/2024 21:36	65205	PRIN_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
9/4/2024 21:36	58705	ROSE_T2	5	5	0	2.64	2.84	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:36	11103	EGYP_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/4/2024 21:36	46001	BERW_T1	0	0	0	0	0	0	0.72	0.71	0	0	0	0	0	0
9/4/2024 21:36	10705	CATA_T2	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
9/4/2024 21:36	47001	HUGH_T2	1	16	15	8.4	0.8	-7.6	-0.78	-0.83	0	0	0	0	0	0
9/4/2024 21:36	11104	EGYP_T1	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
9/4/2024 21:36	47002	HUGH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:36	42601	TUSC_T1	0	1	1	0	0.2	0.2	-0.35	-0.38	2	2	0	1800	1800	0
9/4/2024 21:36	44202	POIN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/4/2024 21:36	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:36	59301	MCAL_T1	6	58	52	0.57	0.29	-0.28	-1.1	-1.11	0	0	0	0	0	0
9/4/2024 21:36	66505	SMAN_T2	3	0	-3	0.1	0	-0.1	0.39	0.32	1	1	0	900	900	0
9/4/2024 21:36	63501	HEID_TBK1-2	46	49	3	0.44	0.42	-0.02	0.49	0.42	0	0	0	0	0	0
9/4/2024 21:36	15604	NSTR_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
9/4/2024 21:36	66703	STRA_T1	8	10	2	0.31	0.22	-0.09	-0.3	-0.31	0	0	0	0	0	0
9/4/2024 21:36	47203	FAXO_T2	0	0	0	0	0	0	-1.53	-1.52	1	1	0	1200	1200	0
9/4/2024 21:37	61001	DONV_T1	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
9/4/2024 21:37	67805	WLAN_T1	396	446	50	0.23	0.26	0.03	0	0	0	0	0	0	0	0
9/4/2024 21:37	62101	ELAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:37	59101	WALK_T2	1	1	0	2.3	3.2	0.9	0.8	1.14	1	0	-1	600	0	-600
9/4/2024 21:37	40201	BEGA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/4/2024 21:37	12801	MICK_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
9/4/2024 21:37	42903	MIDD_T2	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/4/2024 21:37	40101	HUNT_T2	0	0	0	0	0	0	-0.5	-0.48	0	0	0	0	0	0
9/4/2024 21:37	54602	SUMM_T2	0	6	6	0	0.3	0.3	0	0	0	0	0	0	0	0
9/4/2024 21:37	57004	WHHI_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
9/4/2024 21:37	67503	WEWI_T2	1	1	0	8.4	8.5	0.1	-0.04	-0.08	0	0	0	0	0	0
9/4/2024 21:37	16103	BING_T2	0	0	0	0	0	0	-1.42	-1.45	1	1	0	900	900	0
9/4/2024 21:37	42902	MIDD_T2	0	0	0	0	0	0	-0.42	-0.38	0	0	0	0	0	0
9/4/2024 21:37	12701	MACU_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
9/4/2024 21:37	62105	ELAN_T1	19	152	133	0.11	0.16	0.05	0.56	0.49	0	0	0	0	0	0
9/4/2024 21:37	57205	ROSS_T1	0	0	0	0	0	0	0.2	0.13	0	0	0	0	0	0
9/4/2024 21:37	65904	SAKR_T2	0	0	0	0	0	0	-1.8	-1.85	2	2	0	900	900	0
9/4/2024 21:37	43105	SMIL_T2	15	16	1	0.18	0.24	0.06	0	0	0	0	0	0	0	0
9/4/2024 21:37	65901	SAKR_T2	1	1	0	8	8.3	0.3	0	0	0	0	0	0	0	0
9/4/2024 21:37	67502	WEWI_T2	172	4	-168	0.23	0.1	-0.13	-0.67	-0.65	0	0	0	0	0	0
9/4/2024 21:37	12807	MICK_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/4/2024 21:37	43103	SMIL_T2	15	21	6	0.51	0.47	-0.04	0	0	0	0	0	0	0	0
9/4/2024 21:37	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:37	44801	EDAN_T2	340	354	14	0.72	0.94	0.22	0	0	0	0	0	0	0	0
9/4/2024 21:37	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:37	43108	SMIL_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/4/2024 21:37	15203	SFAR_T2	0	0	0	0	0	0	-2.26	-2.3	0	0	0	0	0	0
9/4/2024 21:37	54603	SUMM_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:37	54601	SUMM_T2	13	13	0	0.83	1.08	0.25	-1.84	-1.86	2	2	0	2100	2100	0
9/4/2024 21:37	46402	FLEM_T2	914	1141	227	0.55	0.79	0.24	0	0	0	0	0	0	0	0
9/4/2024 21:37	14801	TREI_T2	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
9/4/2024 21:37	46401	FLEM_T2	695	876	181	0.6	0.77	0.17	-0.32	-0.3	0	0	0	0	0	0
9/4/2024 21:37	42701	AUGU_T1	1	1	0	0.6	0.8	0.2	0	0	2	2	0	1800	1800	0
9/4/2024 21:37	47401	PENS_T1	0	0	0	0	0	0	0.58	0.52	0	0	0	0	0	0
9/4/2024 21:37	57201	ROSS_T1	2	8	6	0.1	0.14	0.04	0	0	0	0	0	0	0	0
9/4/2024 21:37	67803	WLAN_T1	0	0	0	0	0	0	-1.56	-1.57	0	0	0	0	0	0
9/4/2024 21:37	49804	UNIV_T1	10	1	-9	0.25	0.5	0.25	0.66	0.54	0	0	0	0	0	0
9/4/2024 21:37	53501	EVIL_T2	2	2	0	0.75	0.7	-0.05	-0.01	-0.01	2	2	0	1200	1200	0
9/4/2024 21:37	67602	WARW_T2	0	0	0	0	0	0	0	0.98	0	0	0	0	0	0
9/4/2024 21:37	12002	HATF_T1	0	0	0	0	0	0	0.05	0.08	1	1	0	1200	1200	0
9/4/2024 21:37	45602	WOOL_T1	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
9/4/2024 21:37	49803	UNIV_T1	1	1	0	4.8	4.6	-0.2	-2.31	-2.34	0	0	0	0	0	0
9/4/2024 21:37	67804	WLAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:37	62106	ELAN_T1	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/4/2024 21:37	44802	EDAN_T2	2	150	148	0.2	0.12	-0.08	-1.39	-1.45	0	0	0	0	0	0
9/4/2024 21:37	43102	SMIL_T2	8	9	1	0.78	0.78	0	0	0	0	0	0	0	0	0
9/4/2024 21:37	54001	SDLE_T1	4	5	1	1.05	0.98	-0.07	0	0	0	0	0	0	0	0
9/4/2024 21:37	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:37	60701	BREC_T1	0	0	0	0	0	0	-0.94	-0.99	2	2	0	1200	1200	0
9/4/2024 21:38	44202	POIN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/4/2024 21:38	20401	ASHF_T2	4	4	0	0.38	0.45	0.07	0	0	0	0	0	0	0	0
9/4/2024 21:38	46301	ROHR_T1	1	2	1	5.4	5.7	0.3	0.17	0.16	0	0	0	0	0	0
9/4/2024 21:38	45501	DERR_T2	0	0	0	0	0	0	0	0.06	2	2	0	1800	1800	0
9/4/2024 21:38	43102	SMIL_T2	8	9	1	0.78	0.78	0	0	0	0	0	0	0	0	0
9/4/2024 21:38	64801	MONE_T2	3	1	-2	0.3	1.2	0.9	0	0	0	0	0	0	0	0
9/4/2024 21:38	29402	BELT_T1	1	1	0	7.3	7.9	0.6	0	0	0	0	0	0	0	0
9/4/2024 21:38	53802	MBRG_T2	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
9/4/2024 21:38	55002	NEWP_T1	6	6	0	0.7	0.98	0.28	-0.27	-0.26	0	0	0	0	0	0
9/4/2024 21:38	48901	FOSP_T2	0	0	0	0	0	0	-0.72	-0.76	2	2	0	1200	1200	0
9/4/2024 21:38	45802	HEGI_T2	45	44	-1	1.16	1.05	-0.11	0.59	0.64	0	0	0	0	0	0
9/4/2024 21:38	20403	ASHF_T2	0	0	0	0	0	0	0.5	0.34	0	0	0	0	0	0
9/4/2024 21:38	16002	DORN_T2	0	0	0	0	0	0	-0.66	-0.72	1	1	0	1200	1200	0
9/4/2024 21:38	65601	QVIL_T2	0	21	21	0	0.12	0.12	0	0	0	0	0	0	0	0
9/4/2024 21:38	59301	MCAL_T1	6	58	52	0.57	0.29	-0.28	-1.11	-1.11	0	0	0	0	0	0
9/4/2024 21:38	40101	HUNT_T2	0	0	0	0	0	0	-0.5	-0.48	0	0	0	0	0	0
9/4/2024 21:38	46903	MNTG_T2	0	0	0	0	0	0	-0.16	-0.14	1	1	0	600	600	0
9/4/2024 21:38	15001	BLMO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:38	43105	SMIL_T2	15	16	1	0.18	0.24	0.06	0	0	0	0	0	0	0	0
9/4/2024 21:38	53501	EVIL_T2	2	2	0	0.75	0.7	-0.05	-0.01	-0.01	2	2	0	1200	1200	0
9/4/2024 21:38	45901	AUBU_T1	404	538	134	0.59	0.84	0.25	0	0	0	0	0	0	0	0
9/4/2024 21:38	10801	CHHI_T1	0	0	0	0	0	0	-0.69	-0.7	1	1	0	900	900	0
9/4/2024 21:38	55001	NEWP_T1	1	63	62	0.1	0.33	0.23	0	0	0	0	0	0	0	0
9/4/2024 21:38	57401	SPAN_T1	2	2	0	1.7	1.7	0	0	0	0	0	0	0	0	0
9/4/2024 21:38	24702	FLND_T2	0	0	0	0	0	0	0	0	0	1	1	0	1200	1200
9/4/2024 21:38	46004	BERW_T2	0	0	0	0	0	0	-0.12	-0.18	0	0	0	0	0	0
9/4/2024 21:38	55508	HERS_T2	2	2	0	1.3	1.3	0	-2.52	-2.52	1	1	0	1200	1200	0
9/4/2024 21:38	46203	DANV_T2	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:38	25603	ARRO_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
9/4/2024 21:38	48902	FOSP_T2	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
9/4/2024 21:38	66703	STRA_T1	8	10	2	0.31	0.22	-0.09	-0.3	-0.31	0	0	0	0	0	0
9/4/2024 21:38	60701	BREC_T1	0	0	0	0	0	0	-0.47	-0.5	1	1	0	600	600	0
9/4/2024 21:38	45902	AUBU_T1	528	736	208	0.66	0.94	0.28	-0.75	-0.97	0	0	0	0	0	0
9/4/2024 21:38	57403	SPAN_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
9/4/2024 21:38	12001	HATF_T1	0	0	0	0	0	0	0.85	0.62	1	1	0	600	600	0
9/4/2024 21:38	47401	PENS_T1	0	0	0	0	0	0	0.58	0.52	0	0	0	0	0	0
9/4/2024 21:38	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
9/4/2024 21:38	64902	MILL_T2	0	0	0	0	0	0	-0.53	-0.54	1	1	0	900	900	0
9/4/2024 21:38	11405	FARM_T1	1	1	0	3.4	3.3	-0.1	0	0	0	0	0	0	0	0
9/4/2024 21:38	15703	TANN_T2	1	1	0	4.8	4.7	-0.1	0	0	0	0	0	0	0	0
9/4/2024 21:38	59302	MCAL_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
9/4/2024 21:38	64802	MONE_T2	20	21	1	0.14	0.12	-0.02	0.28	0.26	0	0	0	0	0	0
9/4/2024 21:38	41902	REED_T1	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
9/4/2024 21:38	61301	EARL_T1	0	0	0	0	0	0	-0.48	-0.44	1	1	0	900	900	0
9/4/2024 21:38	46101	MACI_T2	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
9/4/2024 21:38	45801	HEGI_T1	0	0	0	0	0	0	-0.09	-0.16	1	1	0	900	900	0
9/4/2024 21:38	54505	ENOL_T2	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
9/4/2024 21:38	59202	THOM_T1	21	99	78	0.15	0.17	0.02	0	0	0	0	0	0	0	0
9/4/2024 21:38	58701	ROSE_T2	0	0	0	0	0	0	-0.09	-0.14	1	1	0	600	600	0
9/4/2024 21:38	43103	SMIL_T2	15	21	6	0.51	0.47	-0.04	0	0	0	0	0	0	0	0
9/4/2024 21:38	43108	SMIL_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/4/2024 21:38	54502	ENOL_T2	2	12	10	0.25	0.13	-0.12	0	0	0	0	0	0	0	0
9/4/2024 21:38	54504	ENOL_T2	0	0	0	0	0	0	-1.56	-1.63	1	1	0	600	600	0
9/4/2024 21:38	54001	SDLE_T1	4	5	1	1.05	0.98	-0.07	0	0	0	0	0	0	0	0
9/4/2024 21:38	46206	DANV_T2	0	0	0	0	0	0	1.55	1.23	2	2	0	2100	2100	0
9/4/2024 21:38	14802	TREI_T2	0	0	0	0	0	0	0.96	0.93	0	0	0	0	0	0
9/4/2024 21:38	47104	MARL_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
9/4/2024 21:38	46506	LOHA_T1	4	3	-1	3.9	6	2.1	0	0	0	0	0	0	0	0
9/4/2024 21:38	40902	JESH_T1	0	1	1	0	0.1	0.1	-0.76	-0.75	0	0	0	0	0	0
9/4/2024 21:38	48302	ORWI_T2	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
9/4/2024 21:38	11404	FARM_T1	0	0	0	0	0	0	-0.54	-0.18	1	1	0	1200	1200	0
9/4/2024 21:38	44203	POIN_T2	0	0	0	0	0	0	-0.45	-0.61	2	2	0	2100	2100	0
9/4/2024 21:38	56501	ROCK_T2	2	2	0	0.75	0.85	0.1	0.14	0.08	0	0	0	0	0	0
9/4/2024 21:38	42701	AUGU_T1	1	1	0	0.6	0.8	0.2	0	0	2	2	0	1800	1800	0
9/4/2024 21:38	41901	REED_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/4/2024 21:38	10805	CHHI_T2	1	1	0	7.9	7.8	-0.1	-0.8	-0.81	1	1	0	600	600	0
9/4/2024 21:38	46302	ROHR_T1	4	4	0	1.15	1.4	0.25	0	0	0	0	0	0	0	0
9/4/2024 21:38	59201	THOM_T1	4	11	7	0.1	0.21	0.11	0	0	0	0	0	0	0	0
9/4/2024 21:38	63501	HEID_TBK1-2	46	49	3	0.44	0.42	-0.02	0.49	0.42	0	0	0	0	0	0
9/4/2024 21:38	46501	LOHA_T1	0	1	1	0	0	0	0.24	0.28	1	1	0	1200	1200	0
9/4/2024 21:38	65604	QVIL_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
9/4/2024 21:38	42503	ALTA_T2	0	0	0	0	0	0	-0.71	-0.74	0	0	0	0	0	0
9/4/2024 21:38	15702	TANN_T2	1	0	-1	0.1	0	-0.1	-0.36	-0.39	0	0	0	0	0	0
9/4/2024 21:38	54501	ENOL_T2	3	3	0	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
9/4/2024 21:38	46504	LOHA_T1	2	20	18	0.65	0.27	-0.38	0	0	0	0	0	0	0	0
9/4/2024 21:38	58705	ROSE_T2	5	5	0	2.64	2.84	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:38	43101	SMIL_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
9/4/2024 21:38	43402	BENT_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
9/4/2024 21:38	53502	EVIL_T2	0	0	0	0	0	0	-0.26	-0.3	1	1	0	600	600	0
9/4/2024 21:39	46506	LOHA_T1	4	3	-1	3.9	6	2.1	0	0	0	0	0	0	0	0
9/4/2024 21:39	55405	SHER_T1	11	16	5	0.63	0.62	-0.01	-0.17	-0.17	0	0	0	0	0	0
9/4/2024 21:39	11104	EGYP_T1	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
9/4/2024 21:39	44801	EDAN_T2	340	354	14	0.72	0.94	0.22	-1.63	-1.64	0	0	0	0	0	0
9/4/2024 21:39	53501	EVIL_T2	2	2	0	0.75	0.7	-0.05	-0.01	-0.01	2	2	0	1200	1200	0
9/4/2024 21:39	43801	SWIL_T1	31	98	67	0.41	0.29	-0.12	0	0	0	0	0	0	0	0
9/4/2024 21:39	56501	ROCK_T2	2	2	0	0.75	0.85	0.1	0.14	0.08	0	0	0	0	0	0
9/4/2024 21:39	54603	SUMM_T2	2	2	0	0.35	0.55	0.2	-0.17	-0.24	1	1	0	900	900	0
9/4/2024 21:39	42802	SELI_T1	1	1	0	0.2	0.8	0.6	-2.55	-2.51	2	2	0	1800	1800	0
9/4/2024 21:39	53901	HALI_T2	3	1	-2	0.53	1.3	0.77	-1.24	-0.12	0	0	0	0	0	0
9/4/2024 21:39	60701	BREC_T1	0	0	0	0	0	0	-0.47	-0.5	1	1	0	600	600	0
9/4/2024 21:39	52403	GRPA_T2	65	122	57	0.74	0.98	0.24	0	0	0	0	0	0	0	0
9/4/2024 21:39	46504	LOHA_T1	2	20	18	0.65	0.27	-0.38	0	0	0	0	0	0	0	0
9/4/2024 21:39	11405	FARM_T1	1	1	0	3.4	3.3	-0.1	-0.83	-0.88	1	1	0	1200	1200	0
9/4/2024 21:39	45602	WOOL_T1	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
9/4/2024 21:39	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:39	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:39	43302	WATS_T2	4	4	0	0.75	0.88	0.13	0	0	0	0	0	0	0	0
9/4/2024 21:39	44802	EDAN_T2	2	150	148	0.2	0.12	-0.08	-0.7	-0.73	0	0	0	0	0	0
9/4/2024 21:39	58402	MORO_T1	0	0	0	0	0	0	0.39	0.38	1	1	0	900	900	0
9/4/2024 21:39	20603	GRWO_T2	4	9	5	0.1	0.1	0	-0.65	-0.67	1	1	0	900	900	0
9/4/2024 21:39	23901	EFMO_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
9/4/2024 21:39	44301	BEAV_T2	0	0	0	0	0	0	0.6	0.48	1	1	0	600	600	0
9/4/2024 21:39	15203	SFAR_T2	0	0	0	0	0	0	-1.13	-1.15	0	0	0	0	0	0
9/4/2024 21:39	67201	TEHI_T1	0	0	0	0	0	0	0.33	0.29	0	0	0	0	0	0
9/4/2024 21:39	53903	HALI_T2	2	2	0	1.7	1.7	0	0	0	0	0	0	0	0	0
9/4/2024 21:39	63602	LETO_T1	0	87	87	0	0.19	0.19	-0.24	-0.32	0	0	0	0	0	0
9/4/2024 21:39	43301	WATS_T2	0	1	1	0	0.3	0.3	0.38	0.38	0	0	0	0	0	0
9/4/2024 21:39	62101	ELAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:39	52402	GRPA_T2	4	4	0	0.88	1.28	0.4	0	0	0	0	0	0	0	0
9/4/2024 21:39	54601	SUMM_T2	13	13	0	0.83	1.08	0.25	-1.84	-1.86	2	2	0	2100	2100	0
9/4/2024 21:39	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:39	11103	EGYP_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/4/2024 21:39	66505	SMAN_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 21:39	43802	SWIL_T1	0	1	1	0	0.1	0.1	0.03	0.05	1	1	0	600	600	0
9/4/2024 21:39	52404	GRPA_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:39	57106	SPHI_T2	3	3	0	2.03	2	-0.03	0	0	0	0	0	0	0	0
9/4/2024 21:39	46501	LOHA_T1	0	1	1	0	0	0	0.24	0.28	1	1	0	1200	1200	0
9/4/2024 21:39	52401	GRPA_T2	0	1	1	0	0.1	0.1	-0.36	-0.38	0	0	0	0	0	0
9/4/2024 21:39	62105	ELAN_T1	19	152	133	0.11	0.16	0.05	0.56	0.49	0	0	0	0	0	0
9/4/2024 21:39	62106	ELAN_T1	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/4/2024 21:39	57101	SPHI_T2	6	6	0	1.53	1.7	0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/4/2024 21:39	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:39	57104	SPHI_T2	0	0	0	0	0	0	-1.61	-1.62	1	1	0	900	900	0
9/4/2024 21:39	54602	SUMM_T2	0	6	6	0	0.3	0.3	0	0	0	0	0	0	0	0
9/4/2024 21:39	53902	HALI_T2	1	1	0	6	5.6	-0.4	-0.19	-0.19	0	0	0	0	0	0
9/4/2024 21:39	57103	SPHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 21:39	67602	WARW_T2	0	0	0	0	0	0	0	0.98	0	0	0	0	0	0
9/4/2024 21:40	40602	PIGR_T1	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
9/4/2024 21:40	40702	FFLD_T1	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/4/2024 21:40	60701	BREC_T1	0	0	0	0	0	0	-0.47	-0.5	1	1	0	600	600	0
9/4/2024 21:40	20401	ASHF_T2	4	4	0	0.38	0.45	0.07	0	0	0	0	0	0	0	0
9/4/2024 21:40	40802	EXCH_T2	1	3	2	0.1	0.1	0	-0.24	-0.24	0	0	0	0	0	0
9/4/2024 21:40	43802	SWIL_T1	0	1	1	0	0.1	0.1	0.03	0.05	1	1	0	600	600	0
9/4/2024 21:40	10805	CHHI_T2	1	1	0	7.9	7.8	-0.1	-0.8	-0.81	1	1	0	600	600	0
9/4/2024 21:40	43201	MVIL_T2	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
9/4/2024 21:40	11103	EGYP_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/4/2024 21:40	66701	STRA_T1	0	0	0	0	0	0	0.58	0.54	0	0	0	0	0	0
9/4/2024 21:40	14404	SSLA_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
9/4/2024 21:40	21702	SUBU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:40	40703	FFLD_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
9/4/2024 21:40	66703	STRA_T1	8	10	2	0.31	0.22	-0.09	0	0	0	0	0	0	0	0
9/4/2024 21:40	64305	LINC_T1	0	0	0	0	0	0	-0.45	-0.48	0	0	0	0	0	0
9/4/2024 21:40	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:40	43504	WWIL_T1	4	17	13	0.3	0.25	-0.05	0.64	0.65	0	0	0	0	0	0
9/4/2024 21:40	40701	FFLD_T1	32	30	-2	0.32	0.34	0.02	0	0	0	0	0	0	0	0
9/4/2024 21:40	20403	ASHF_T2	0	0	0	0	0	0	0.25	0.17	0	0	0	0	0	0
9/4/2024 21:40	45501	DERR_T2	0	0	0	0	0	0	0	0.06	2	2	0	1800	1800	0
9/4/2024 21:40	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:40	10903	COOP_T2	0	8	8	0	0.11	0.11	-0.3	-0.31	1	1	0	600	600	0
9/4/2024 21:40	11104	EGYP_T1	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
9/4/2024 21:40	40601	PIGR_T1	99	132	33	0.18	0.2	0.02	-0.09	-0.12	0	0	0	0	0	0
9/4/2024 21:40	43505	WWIL_T1	1	1	0	3	3.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:40	43801	SWIL_T1	31	98	67	0.41	0.29	-0.12	0	0	0	0	0	0	0	0
9/4/2024 21:40	53501	EVIL_T2	2	2	0	0.75	0.7	-0.05	-0.01	-0.01	1	1	0	600	600	0
9/4/2024 21:40	53802	MBRG_T2	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
9/4/2024 21:40	44801	EDAN_T2	340	354	14	0.72	0.94	0.22	-1.63	-1.64	0	0	0	0	0	0
9/4/2024 21:40	21705	SUBU_T1	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
9/4/2024 21:40	43506	WWIL_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:40	40801	EXCH_T2	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0	0
9/4/2024 21:40	44802	EDAN_T2	2	150	148	0.2	0.12	-0.08	0	0	0	0	0	0	0	0
9/4/2024 21:40	21701	SUBU_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/4/2024 21:40	21704	SUBU_T1	0	0	0	0	0	0	-2.47	-2.5	2	2	0	2400	2400	0
9/4/2024 21:40	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:41	45402	WBLO_T2	80	97	17	0.47	0.56	0.09	-1.19	-1.19	1	1	0	900	900	0
9/4/2024 21:41	67602	WARW_T2	0	0	0	0	0	0	0	0.98	0	0	0	0	0	0
9/4/2024 21:41	43103	SWIL_T2	15	21	6	0.51	0.47	-0.04	0	0	0	0	0	0	0	0
9/4/2024 21:41	12807	MICK_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/4/2024 21:41	43105	SMIL_T2	15	16	1	0.18	0.24	0.06	0	0	0	0	0	0	0	0
9/4/2024 21:41	54602	SUMM_T2	0	6	6	0	0.3	0.3	0	0	0	0	0	0	0	0
9/4/2024 21:41	54603	SUMM_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:41	61801	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:41	46902	MNTG_T2	0	0	0	0	0	0	-0.55	-0.55	1	1	0	600	600	0
9/4/2024 21:41	43108	SMIL_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/4/2024 21:41	54601	SUMM_T2	13	13	0	0.83	1.08	0.25	-1.84	-1.86	2	2	0	2100	2100	0
9/4/2024 21:41	61803	EELI_T2	0	0	0	0	0	0	0.16	0.11	1	1	0	600	600	0
9/4/2024 21:41	66503	SMAN_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
9/4/2024 21:41	43102	SMIL_T2	8	9	1	0.78	0.78	0	-0.81	-0.28	1	0	-1	600	0	-600
9/4/2024 21:41	61502	EPET_T1	0	0	0	0	0	0	-0.88	-0.94	0	0	0	0	0	0
9/4/2024 21:41	53802	MBRG_T2	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
9/4/2024 21:41	44802	EDAN_T2	2	150	148	0.2	0.12	-0.08	0	0	0	0	0	0	0	0
9/4/2024 21:41	56501	ROCK_T2	2	2	0	0.75	0.85	0.1	0.57	0.32	0	0	0	0	0	0
9/4/2024 21:41	44801	EDAN_T2	340	354	14	0.72	0.94	0.22	-1.63	-1.64	0	0	0	0	0	0
9/4/2024 21:41	59201	THOM_T1	4	11	7	0.1	0.21	0.11	0	0	0	0	0	0	0	0
9/4/2024 21:41	40101	HUNT_T2	0	0	0	0	0	0	-0.5	-0.48	0	0	0	0	0	0
9/4/2024 21:41	66505	SMAN_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 21:41	59202	THOM_T1	21	99	78	0.15	0.17	0.02	0	0	0	0	0	0	0	0
9/4/2024 21:41	57401	SPAN_T1	2	2	0	1.7	1.7	0	-0.11	0.31	1	0	-1	600	0	-600
9/4/2024 21:41	12801	MICK_T1	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
9/4/2024 21:41	61801	EELI_T2	0	1	1	0	0.1	0.1	-0.95	-0.98	1	1	0	600	600	0
9/4/2024 21:42	43801	SWIL_T1	31	98	67	0.41	0.29	-0.12	0	0	0	0	0	0	0	0
9/4/2024 21:42	60701	BREC_T1	0	0	0	0	0	0	-0.47	-0.5	1	1	0	600	600	0
9/4/2024 21:42	42503	ALTA_T2	0	0	0	0	0	0	-0.71	-0.74	0	0	0	0	0	0
9/4/2024 21:42	40902	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:42	55101	WERT_T1	0	0	0	0	0	0	-1.03	-1.09	2	2	0	1800	1800	0
9/4/2024 21:42	14403	SSLA_T1	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
9/4/2024 21:42	45802	HEGI_T2	45	44	-1	1.16	1.05	-0.11	0.59	0.64	0	0	0	0	0	0
9/4/2024 21:42	43202	MVIL_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
9/4/2024 21:42	43802	SWIL_T1	0	1	1	0	0.1	0.1	0.03	0.05	1	1	0	600	600	0
9/4/2024 21:42	64801	MONE_T2	3	1	-2	0.3	1.2	0.9	0	0	0	0	0	0	0	0
9/4/2024 21:42	46001	BERW_T1	0	0	0	0	0	0	0.72	0.71	0	0	0	0	0	0
9/4/2024 21:42	11301	EMMA_T1	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
9/4/2024 21:42	51603	DUKE_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
9/4/2024 21:42	40801	EXCH_T2	3	3	0	0.27	0.27	0	-0.85	-0.96	2	2	0	2400	2400	0
9/4/2024 21:42	64802	MONE_T2	20	21	1	0.14	0.12	-0.02	0.28	0.26	0	0	0	0	0	0
9/4/2024 21:42	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:42	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:42	67402	WAKE_T2	0	0	0	0	0	0	-0.35	0.22	1	0	-1	600	0	-600
9/4/2024 21:42	67605	WARW_T1	14	19	5	0.39	0.64	0.25	0	-1.11	0	0	0	0	0	0
9/4/2024 21:42	58401	MORO_T1	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
9/4/2024 21:42	44801	EDAN_T2	340	354	14	0.72	0.94	0.22	0	0	0	0	0	0	0	0
9/4/2024 21:42	40802	EXCH_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
9/4/2024 21:42	42802	SELI_T1	1	1	0	0.2	0.8	0.6	-1.27	-1.26	1	1	0	900	900	0
9/4/2024 21:42	44802	EDAN_T2	2	150	148	0.2	0.12	-0.08	-0.7	-0.73	0	0	0	0	0	0
9/4/2024 21:42	42201	SHEN_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
9/4/2024 21:42	59101	WALK_T2	1	1	0	2.3	3.2	0.9	0.8	1.14	1	0	-1	600	0	-600
9/4/2024 21:42	67401	WAKE_T2	0	5	5	0	0.1	0.1	-0.97	-0.78	0	0	0	0	0	0
9/4/2024 21:42	47401	PENS_T1	0	0	0	0	0	0	1.17	1.05	0	0	0	0	0	0
9/4/2024 21:43	40902	JESH_T1	0	1	1	0	0.1	0.1	-0.76	-0.75	0	0	0	0	0	0
9/4/2024 21:43	46503	LOHA_T1	0	0	0	0	0	0	-1.22	-1.22	0	0	0	0	0	0
9/4/2024 21:43	53501	EVIL_T2	2	2	0	0.75	0.7	-0.05	-0.02	-0.02	4	4	0	2400	2400	0
9/4/2024 21:43	52404	GRPA_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:43	43104	SMIL_T2	0	0	0	0	0	0	-1.49	-1.52	2	2	0	600	600	0
9/4/2024 21:43	58701	ROSE_T2	0	0	0	0	0	0	-0.09	-0.14	1	1	0	600	600	0
9/4/2024 21:43	40602	PIGR_T1	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
9/4/2024 21:43	52006	LING_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:43	51603	DUKE_T1	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
9/4/2024 21:43	46001	BERW_T1	0	0	0	0	0	0	0.72	0.71	0	0	0	0	0	0
9/4/2024 21:43	59302	MCAL_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
9/4/2024 21:43	54602	SUMM_T2	0	6	6	0	0.3	0.3	0	0	0	0	0	0	0	0
9/4/2024 21:43	12701	MACU_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
9/4/2024 21:43	58705	ROSE_T2	5	5	0	2.64	2.84	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:43	64202	KINZ_T1	3	3	0	0.87	0.53	-0.34	0	0	0	0	0	0	0	0
9/4/2024 21:43	52403	GRPA_T2	65	122	57	0.74	0.98	0.24	0	0	0	0	0	0	0	0
9/4/2024 21:43	57401	SPAN_T1	2	2	0	1.7	1.7	0	-0.11	0.31	1	0	-1	600	0	-600
9/4/2024 21:43	52402	GRPA_T2	4	4	0	0.88	1.28	0.4	-0.74	-0.77	0	0	0	0	0	0
9/4/2024 21:43	42201	SHEN_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
9/4/2024 21:43	44301	BEAV_T2	0	0	0	0	0	0	0.6	0.48	1	1	0	600	600	0
9/4/2024 21:43	58202	NEWV_T1	0	0	0	0	0	0	0.34	0.13	0	0	0	0	0	0
9/4/2024 21:43	67602	WARW_T2	0	0	0	0	0	0	0	0.98	0	0	0	0	0	0
9/4/2024 21:43	40101	HUNT_T2	0	0	0	0	0	0	-0.5	-0.48	0	0	0	0	0	0
9/4/2024 21:43	43202	MVIL_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
9/4/2024 21:43	46401	FLEM_T2	695	876	181	0.6	0.77	0.17	0	0	0	0	0	0	0	0
9/4/2024 21:43	55001	NEWP_T1	1	63	62	0.1	0.33	0.23	-0.13	-0.12	0	0	0	0	0	0
9/4/2024 21:43	55002	NEWP_T1	6	6	0	0.7	0.98	0.28	0	0	0	0	0	0	0	0
9/4/2024 21:43	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:43	47401	PENS_T1	0	0	0	0	0	0	0.58	0.52	0	0	0	0	0	0
9/4/2024 21:43	63501	HEID_TBK1-2	46	49	3	0.44	0.42	-0.02	0.49	0.42	0	0	0	0	0	0
9/4/2024 21:43	46506	LOHA_T1	4	3	-1	3.9	6	2.1	0	0	0	0	0	0	0	0
9/4/2024 21:43	42802	SELI_T1	1	1	0	0.2	0.8	0.6	-2.55	-2.51	2	2	0	1800	1800	0
9/4/2024 21:43	43102	SMIL_T2	8	9	1	0.78	0.78	0	0	0	0	0	0	0	0	0
9/4/2024 21:43	60701	BREC_T1	0	0	0	0	0	0	-0.47	-0.5	1	1	0	600	600	0
9/4/2024 21:43	54603	SUMM_T2	2	2	0	0.35	0.55	0.2	-0.17	-0.24	1	1	0	900	900	0
9/4/2024 21:43	46504	LOHA_T1	2	20	18	0.65	0.27	-0.38	0	0	0	0	0	0	0	0
9/4/2024 21:43	40601	PIGR_T1	99	132	33	0.18	0.2	0.02	0	0	0	0	0	0	0	0
9/4/2024 21:43	55508	HERS_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
9/4/2024 21:43	46402	FLEM_T2	914	1141	227	0.55	0.79	0.24	-0.34	-0.39	0	0	0	0	0	0
9/4/2024 21:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:43	59301	MCAL_T1	6	58	52	0.57	0.29	-0.28	0	0	0	0	0	0	0	0
9/4/2024 21:43	54601	SUMM_T2	13	13	0	0.83	1.08	0.25	0	0	0	0	0	0	0	0
9/4/2024 21:43	43103	SMIL_T2	15	21	6	0.51	0.47	-0.04	-0.82	-0.86	0	0	0	0	0	0
9/4/2024 21:43	64203	KINZ_T1	0	0	0	0	0	0	-0.06	-0.02	1	1	0	600	600	0
9/4/2024 21:43	20401	ASHF_T2	4	4	0	0.38	0.45	0.07	0	0	0	0	0	0	0	0
9/4/2024 21:43	64204	KINZ_T1	3	1	-2	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:43	43105	SMIL_T2	15	16	1	0.18	0.24	0.06	0	0	0	0	0	0	0	0
9/4/2024 21:43	42902	MIDD_T2	0	0	0	0	0	0	-0.42	-0.38	0	0	0	0	0	0
9/4/2024 21:43	20403	ASHF_T2	0	0	0	0	0	0	0.25	0.17	0	0	0	0	0	0
9/4/2024 21:43	52002	LING_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
9/4/2024 21:43	24204	PROV_T3	1	2	1	5.7	2.85	-2.85	0	0	0	0	0	0	0	0
9/4/2024 21:43	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:43	43402	BENT_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
9/4/2024 21:43	43108	SMIL_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/4/2024 21:43	64201	KINZ_T1	4	4	0	0.43	0.43	0	0	0	0	0	0	0	0	0
9/4/2024 21:43	52004	LING_T2	2	2	0	6.35	6.45	0.1	0.17	0.17	0	0	0	0	0	0
9/4/2024 21:43	24201	PROV_T3	1	1	0	7	6.2	-0.8	-1.33	-1.31	1	1	0	1200	1200	0
9/4/2024 21:43	58401	MORO_T1	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
9/4/2024 21:43	42903	MIDD_T2	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/4/2024 21:43	45801	HEGI_T1	0	0	0	0	0	0	-0.09	-0.16	1	1	0	900	900	0
9/4/2024 21:43	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:44	53903	HALI_T2	2	2	0	1.7	1.7	0	0	0	0	0	0	0	0	0
9/4/2024 21:44	49803	UNIV_T1	1	1	0	4.8	4.6	-0.2	-2.31	-2.34	0	0	0	0	0	0
9/4/2024 21:44	54001	SDLE_T1	4	5	1	1.05	0.98	-0.07	0	0	0	0	0	0	0	0
9/4/2024 21:44	56501	ROCK_T2	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:44	43103	SMIL_T2	15	21	6	0.51	0.47	-0.04	0	0	0	0	0	0	0	0
9/4/2024 21:44	57303	MOAL_T2	1	1	0	7.1	6.8	-0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/4/2024 21:44	44801	EDAN_T2	340	354	14	0.72	0.94	0.22	-1.63	-1.64	0	0	0	0	0	0
9/4/2024 21:44	67605	WARW_T1	14	19	5	0.39	0.64	0.25	0	-1.11	0	0	0	0	0	0
9/4/2024 21:44	44203	POIN_T2	0	0	0	0	0	0	-0.45	-0.61	2	2	0	2100	2100	0
9/4/2024 21:44	14201	EALL_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
9/4/2024 21:44	44802	EDAN_T2	2	150	148	0.2	0.12	-0.08	0	0	0	0	0	0	0	0
9/4/2024 21:44	58402	MORO_T1	0	0	0	0	0	0	0.39	0.38	1	1	0	900	900	0
9/4/2024 21:44	58401	MORO_T1	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
9/4/2024 21:44	53601	DALM_T2	1	1	0	0.4	0.8	0.4	-0.01	0	0	0	0	0	0	0
9/4/2024 21:44	67602	WARW_T2	0	0	0	0	0	0	0	0.98	0	0	0	0	0	0
9/4/2024 21:44	57306	MOAL_T2	0	0	0	0	0	0	-3.14	-3.14	1	1	0	1200	1200	0
9/4/2024 21:44	53901	HALI_T2	3	1	-2	0.53	1.3	0.77	-1.24	-0.12	0	0	0	0	0	0
9/4/2024 21:44	43202	MVIL_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
9/4/2024 21:44	55405	SHER_T1	11	16	5	0.63	0.62	-0.01	-0.17	-0.17	0	0	0	0	0	0
9/4/2024 21:44	56504	ROCK_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
9/4/2024 21:44	43102	SMIL_T2	8	9	1	0.78	0.78	0	0	0	0	0	0	0	0	0
9/4/2024 21:44	55101	WERT_T1	0	0	0	0	0	0	-2.06	-2.18	4	4	0	3600	3600	0
9/4/2024 21:44	13704	SCHN_T2	0	0	0	0	0	0	-0.71	-0.77	0	0	0	0	0	0
9/4/2024 21:44	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:44	43108	SMIL_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/4/2024 21:44	51202	MTON_T2	0	0	0	0	0	0	-1.04	-1.03	1	1	0	1200	1200	0
9/4/2024 21:44	57304	MOAL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:44	44202	POIN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/4/2024 21:44	43104	SMIL_T2	0	0	0	0	0	0	-0.74	-0.76	1	1	0	300	300	0
9/4/2024 21:44	53902	HALI_T2	1	1	0	6	5.6	-0.4	0	0	0	0	0	0	0	0
9/4/2024 21:44	41901	REED_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/4/2024 21:44	51306	WIND_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
9/4/2024 21:44	46102	MACI_T1	0	0	0	0	0	0	0.75	0.77	0	0	0	0	0	0
9/4/2024 21:44	49804	UNIV_T1	10	1	-9	0.25	0.5	0.25	0	0	0	0	0	0	0	0
9/4/2024 21:44	43105	SMIL_T2	15	16	1	0.18	0.24	0.06	0	0	0	0	0	0	0	0
9/4/2024 21:45	46402	FLEM_T2	1057	1202	145	0.64	0.98	0.34	0	0	0	0	0	0	0	0
9/4/2024 21:45	52002	LING_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
9/4/2024 21:45	52004	LING_T2	2	2	0	6.25	6.45	0.2	0.17	0.17	0	0	0	0	0	0
9/4/2024 21:45	42902	MIDD_T2	0	2	2	0	0.1	0.1	-0.42	-0.38	0	0	0	0	0	0
9/4/2024 21:45	52404	GRPA_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:45	55101	WERT_T1	0	0	0	0	0	0	-1.03	-1.09	2	2	0	1800	1800	0
9/4/2024 21:45	47502	NECO_T1	1	1	0	0.1	0.4	0.3	1.06	0.92	0	0	0	0	0	0
9/4/2024 21:45	55105	WERT_T1	0	0	0	0	0	0	-0.33	-0.39	1	1	0	900	900	0
9/4/2024 21:45	46401	FLEM_T2	810	950	140	0.66	0.89	0.23	-0.32	-0.3	0	0	0	0	0	0
9/4/2024 21:45	23001	SAJO_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
9/4/2024 21:45	46901	MINT_T2	0	0	0	0	0	0	0.37	0.07	1	1	0	1200	1200	0
9/4/2024 21:45	42903	MIDD_T2	2	2	0	0.3	0.75	0.45	0.04	0.02	0	0	0	0	0	0
9/4/2024 21:45	52403	GRPA_T2	94	121	27	0.93	0.99	0.06	0	0	0	0	0	0	0	0
9/4/2024 21:45	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:45	52006	LING_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:45	44301	BEAV_T2	0	0	0	0	0	0	0.6	0.48	1	1	0	600	600	0
9/4/2024 21:45	52402	GRPA_T2	4	4	0	1.05	1.28	0.23	-0.74	-0.77	0	0	0	0	0	0
9/4/2024 21:46	49804	UNIV_T1	1	1	0	0.5	0.4	-0.1	0.66	0.54	0	0	0	0	0	0
9/4/2024 21:46	51702	OBER_T1	2	2	0	2.45	2.65	0.2	-0.17	-0.16	0	0	0	0	0	0
9/4/2024 21:46	53501	EVIL_T2	2	1	-1	0.7	1	0.3	-0.01	-0.01	1	1	0	600	600	0
9/4/2024 21:46	49803	UNIV_T1	1	1	0	4.7	4.6	-0.1	0	0	0	0	0	0	0	0
9/4/2024 21:46	41901	REED_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:46	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 21:46	42802	SELI_T1	1	1	0	0.8	0.5	-0.3	-1.27	-1.26	1	1	0	900	900	0
9/4/2024 21:46	57401	SPAN_T1	2	2	0	1.7	1.6	-0.1	-0.11	0.31	1	0	-1	600	0	-600
9/4/2024 21:46	41902	REED_T1	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
9/4/2024 21:47	49804	UNIV_T1	1	1	0	0.5	0.4	-0.1	0.66	0.54	0	0	0	0	0	0
9/4/2024 21:47	63302	GREE_T1	0	0	0	0	0	0	0.45	0.37	0	0	0	0	0	0
9/4/2024 21:47	47401	PENS_T1	0	0	0	0	0	0	0.58	0.52	0	0	0	0	0	0
9/4/2024 21:47	46401	FLEM_T2	810	950	140	0.66	0.89	0.23	0	0	0	0	0	0	0	0
9/4/2024 21:47	49803	UNIV_T1	1	1	0	4.7	4.6	-0.1	0	0	0	0	0	0	0	0
9/4/2024 21:47	45402	WBLO_T2	94	86	-8	0.55	0.56	0.01	-1.19	-1.19	1	1	0	900	900	0
9/4/2024 21:47	46402	FLEM_T2	1057	1202	145	0.64	0.98	0.34	-0.34	-0.39	0	0	0	0	0	0
9/4/2024 21:48	41902	REED_T1	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
9/4/2024 21:48	52403	GRPA_T2	94	121	27	0.93	0.99	0.06	-0.21	-0.25	0	0	0	0	0	0
9/4/2024 21:48	66504	SMAN_T2	0	0	0	0	0	0	-0.3	-0.33	0	0	0	0	0	0
9/4/2024 21:48	43102	SMIL_T2	9	8	-1	0.78	0.56	-0.22	0	0	0	0	0	0	0	0
9/4/2024 21:48	44801	EDAN_T2	342	355	13	0.91	0.94	0.03	0	0	0	0	0	0	0	0
9/4/2024 21:48	43105	SMIL_T2	16	16	0	0.23	0.25	0.02	0	0	0	0	0	0	0	0
9/4/2024 21:48	43103	SMIL_T2	19	22	3	0.5	0.61	0.11	0	0	0	0	0	0	0	0
9/4/2024 21:48	58401	MORO_T1	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
9/4/2024 21:48	44802	EDAN_T2	98	185	87	0.13	0.12	-0.01	-0.7	-0.73	0	0	0	0	0	0
9/4/2024 21:48	52404	GRPA_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:48	43402	BENT_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
9/4/2024 21:48	46301	ROHR_T1	2	1	-1	3.35	5.7	2.35	0	0	0	0	0	0	0	0
9/4/2024 21:48	41901	REED_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/4/2024 21:48	52402	GRPA_T2	4	4	0	1.05	1.28	0.23	0	0	0	0	0	0	0	0
9/4/2024 21:48	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:48	46302	ROHR_T1	4	4	0	1.28	1.53	0.25	0.15	0.16	0	0	0	0	0	0
9/4/2024 21:48	43101	SMIL_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
9/4/2024 21:48	43108	SMIL_T2	3	3	0	0.13	0.2	0.07	0	0	0	0	0	0	0	0
9/4/2024 21:49	46504	LOHA_T1	2	53	51	0.75	0.49	-0.26	0	0	0	0	0	0	0	0
9/4/2024 21:49	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:49	51702	OBER_T1	2	2	0	2.45	2.65	0.2	-0.17	-0.16	0	0	0	0	0	0
9/4/2024 21:49	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
9/4/2024 21:49	46506	LOHA_T1	3	3	0	5.73	6	0.27	0	0	0	0	0	0	0	0
9/4/2024 21:49	53501	EVIL_T2	2	1	-1	0.7	1	0.3	-0.01	-0.01	1	1	0	600	600	0
9/4/2024 21:50	43802	SWIL_T1	0	1	1	0	0.1	0.1	0.03	0.05	1	1	0	600	600	0
9/4/2024 21:50	55001	NEWP_T1	45	62	17	0.22	0.34	0.12	-0.13	-0.12	0	0	0	0	0	0
9/4/2024 21:50	43801	SWIL_T1	74	96	22	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
9/4/2024 21:50	55002	NEWP_T1	6	6	0	0.95	0.82	-0.13	0	0	0	0	0	0	0	0
9/4/2024 21:50	59101	WALK_T2	1	1	0	3.4	3.2	-0.2	0.8	1.14	1	0	-1	600	0	-600
9/4/2024 21:51	57306	MOAL_T2	0	0	0	0	0	0	-3.14	-3.14	1	1	0	1200	1200	0
9/4/2024 21:51	57303	MOAL_T2	1	1	0	7.1	6.8	-0.3	0	0	0	0	0	0	0	0
9/4/2024 21:51	57304	MOAL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 21:57	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2024 21:57	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/4/2024 21:58	57306	MOAL_T2	0	0	0	0	0	0	-3.14	-3.13	1	1	0	1200	1200	0
9/4/2024 21:58	57303	MOAL_T2	1	1	0	7.1	6.8	-0.3	0	0	0	0	0	0	0	0
9/4/2024 21:58	57304	MOAL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/4/2024 22:02	24102	EHAZ_T1	0	0	0	0	0	0	0.14	0.2	0	0	0	0	0	0
9/4/2024 22:02	24105	EHAZ_T1	4	4	0	5.93	5.8	-0.13	0	0	0	0	0	0	0	0
9/4/2024 22:07	45901	AUBU_T1	535	527	-8	0.84	0.72	-0.12	0.33	0.33	0	0	0	0	0	0
9/4/2024 22:07	45902	AUBU_T1	736	739	3	0.93	0.87	-0.06	0	0	0	0	0	0	0	0
9/4/2024 22:16	56501	ROCK_T2	2	2	0	0.45	0.65	0.2	0	0	0	0	0	0	0	0
9/4/2024 22:16	56504	ROCK_T2	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
9/4/2024 22:17	10801	CHHI_T1	0	0	0	0	0	0	-0.71	-0.76	1	1	0	900	900	0
9/4/2024 22:20	15203	SFAR_T2	0	0	0	0	0	0	-1.13	-1.19	0	0	0	0	0	0
9/4/2024 22:21	47403	PENS_T1	0	1	1	0	2	2	0	0	0	0	0	0	0	0
9/4/2024 22:21	47401	PENS_T1	0	0	0	0	0	0	0.39	0.32	0	0	0	0	0	0
9/4/2024 23:05	15203	SFAR_T2	0	0	0	0	0	0	-1.22	-1.24	0	0	0	0	0	0
9/4/2024 23:22	67702	WERN_T2	0	0	0	0	0	0	0.04	-0.05	0	0	0	0	0	0
9/5/2024 7:09	67805	WLAN_T1	0	0	0	0	0	0	-1.21	-1.12	0	0	0	0	0	0
9/5/2024 7:11	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/5/2024 7:17	55002	NEWP_T1	6	5	-1	0.62	0.86	0.24	-0.28	-0.25	0	0	0	0	0	0
9/5/2024 7:20	55002	NEWP_T1	6	5	-1	0.62	0.86	0.24	-0.28	-0.25	0	0	0	0	0	0
9/5/2024 7:21	15203	SFAR_T2	82	69	-13	0.16	0.13	-0.03	-1.36	-1.35	0	0	0	0	0	0
9/5/2024 7:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 7:21	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 7:23	58703	ROSE_T2	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
9/5/2024 7:23	58705	ROSE_T2	5	5	0	2.9	2.5	-0.4	0	0	0	0	0	0	0	0
9/5/2024 7:23	45901	AUBU_T1	36	26	-10	0.19	0.17	-0.02	0.34	0.36	0	0	0	0	0	0
9/5/2024 7:23	15202	SFAR_T1	0	0	0	0	0	0	-0.59	-0.57	1	1	0	1200	1200	0
9/5/2024 7:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
9/5/2024 7:26	29402	BELT_T1	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
9/5/2024 7:29	61503	EPET_T1	0	0	0	0	0	0	-1.12	-1.15	0	0	0	0	0	0
9/5/2024 7:33	55002	NEWP_T1	5	4	-1	0.78	0.93	0.15	-0.25	-0.29	0	0	0	0	0	0
9/5/2024 7:34	65702	RVIL_T2	0	0	0	0	0	0	-1.1	-1.03	1	1	0	600	600	0
9/5/2024 7:35	65601	QVIL_T2	0	0	0	0	0	0	-1.23	-1.13	1	1	0	900	900	0
9/5/2024 7:36	24201	PROV_T3	1	1	0	7	6.8	-0.2	-1.49	-0.14	1	0	-1	1200	0	-1200
9/5/2024 7:36	65702	RVIL_T2	0	0	0	0	0	0	-1.03	-1.04	1	1	0	600	600	0
9/5/2024 7:36	24204	PROV_T3	1	1	0	7.4	6.3	-1.1	0	0	0	0	0	0	0	0
9/5/2024 7:37	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
9/5/2024 7:38	15203	SFAR_T2	1	94	93	0.1	0.16	0.06	-1.35	-1.35	0	0	0	0	0	0
9/5/2024 7:40	15203	SFAR_T2	1	94	93	0.1	0.16	0.06	0	0	0	0	0	0	0	0
9/5/2024 7:40	40801	EXCH_T2	1	2	1	2.6	0.1	-2.5	-0.48	-0.5	1	1	0	1200	1200	0
9/5/2024 7:40	15204	SFAR_T2	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
9/5/2024 7:40	40802	EXCH_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/5/2024 7:41	10504	CRAC_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
9/5/2024 7:42	57002	WHHI_T2	0	0	0	0	0	0	-1.45	-1.49	1	1	0	1200	1200	0
9/5/2024 7:42	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 7:43	63804	HEMP_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
9/5/2024 7:43	63801	HEMP_T1	0	0	0	0	0	0	-0.66	0.11	1	1	0	900	900	0
9/5/2024 7:44	12605	MACA_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
9/5/2024 7:44	11901	ETEX_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
9/5/2024 7:45	57006	WHHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/5/2024 7:45	57002	WHHI_T2	0	0	0	0	0	0	-1.45	-1.49	1	1	0	1200	1200	0
9/5/2024 7:45	64903	MILL_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
9/5/2024 7:45	40101	HUNT_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
9/5/2024 7:46	44201	POIN_T1	0	0	0	0	0	0	-0.33	-0.16	2	2	0	2100	2100	0
9/5/2024 7:47	12801	MICK_T1	0	0	0	0	0	0	-1	-0.97	1	1	0	600	600	0
9/5/2024 7:47	12605	MACA_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
9/5/2024 7:47	12807	MICK_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/5/2024 7:47	12601	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 7:48	12802	MICK_T1	0	0	0	0	0	0	-1.27	-1.25	0	0	0	0	0	0
9/5/2024 7:48	12807	MICK_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/5/2024 7:48	12801	MICK_T1	0	0	0	0	0	0	-1	-0.97	1	1	0	600	600	0
9/5/2024 7:52	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 7:52	43102	SMIL_T2	7	7	0	0.57	0.7	0.13	-0.82	-0.82	1	1	0	600	600	0
9/5/2024 7:52	43103	SMIL_T2	20	22	2	0.37	0.55	0.18	0	0	0	0	0	0	0	0
9/5/2024 7:52	16504	STRO_T1	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
9/5/2024 7:53	45602	WOOL_T1	2	2	0	0.2	0.5	0.3	0.63	0.62	0	0	0	0	0	0
9/5/2024 7:55	44703	MUNC_T2	0	2	2	0	0.7	0.7	0.77	0.76	0	0	0	0	0	0
9/5/2024 7:55	45902	AUBU_T1	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/5/2024 7:55	45901	AUBU_T1	26	109	83	0.17	0.29	0.12	0.35	0.36	0	0	0	0	0	0
9/5/2024 7:55	15203	SFAR_T2	0	0	0	0	0	0	-1.35	-1.35	0	0	0	0	0	0
9/5/2024 7:55	51602	DUKE_T2	0	0	0	0	0	0	-1.59	-0.24	1	0	-1	1200	0	-1200
9/5/2024 7:56	12807	MICK_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/5/2024 7:56	12802	MICK_T1	0	0	0	0	0	0	-1.25	-1.21	0	0	0	0	0	0
9/5/2024 7:57	51904	COPA_T1	5	5	0	1.04	1.18	0.14	-1.07	-0.4	2	1	-1	1200	600	-600
9/5/2024 7:57	40504	CRES_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
9/5/2024 7:58	51602	DUKE_T2	0	0	0	0	0	0	-1.59	-0.24	1	0	-1	1200	0	-1200
9/5/2024 7:58	53601	DALM_T2	1	1	0	0.7	0.7	0	-0.08	-0.01	0	0	0	0	0	0
9/5/2024 7:58	40504	CRES_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
9/5/2024 8:02	64503	LAVI_T1	0	0	0	0	0	0	-1.65	-1.55	2	2	0	2100	2100	0
9/5/2024 8:02	63601	LETO_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/5/2024 8:02	65601	QVIL_T2	0	0	0	0	0	0	-1.09	-1.04	1	1	0	900	900	0
9/5/2024 8:02	63602	LETO_T1	22	0	-22	0.1	0	-0.1	-0.52	-0.36	0	0	0	0	0	0
9/5/2024 8:03	64503	LAVI_T1	0	0	0	0	0	0	-4.96	-4.65	6	6	0	6300	6300	0
9/5/2024 8:04	47101	MARL_T1	0	0	0	0	0	0	-0.42	-0.35	0	0	0	0	0	0
9/5/2024 8:06	13905	SFID_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
9/5/2024 8:07	15203	SFAR_T2	82	87	5	0.16	0.18	0.02	-1.35	-1.33	0	0	0	0	0	0
9/5/2024 8:08	57103	SPHI_T2	0	0	0	0	0	0	-0.35	-0.33	1	1	0	600	600	0
9/5/2024 8:08	57101	SPHI_T2	6	6	0	0.92	1.02	0.1	0	0	0	0	0	0	0	0
9/5/2024 8:08	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 8:08	57104	SPHI_T2	2	2	0	4.4	5.35	0.95	0	0	0	0	0	0	0	0
9/5/2024 8:08	57106	SPHI_T2	3	3	0	1.37	1.37	0	0	0	0	0	0	0	0	0
9/5/2024 8:08	67503	WEWI_T2	1	1	0	9.5	9.3	-0.2	-0.25	-0.21	0	0	0	0	0	0
9/5/2024 8:09	67501	WEWI_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/5/2024 8:09	67505	WEWI_T1	0	0	0	0	0	0	-0.24	-0.21	1	1	0	900	900	0
9/5/2024 8:09	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 8:10	67503	WEWI_T2	1	1	0	9.5	9.3	-0.2	-0.25	-0.21	0	0	0	0	0	0
9/5/2024 8:10	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 8:11	44801	EDAN_T2	148	239	91	0.53	0.6	0.07	-1.67	-1.67	0	0	0	0	0	0
9/5/2024 8:12	50105	HARR_T3	6	6	0	6.43	6.05	-0.38	0	0	0	0	0	0	0	0
9/5/2024 8:12	50201	HARR_T3	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/5/2024 8:12	50107	HARR_T3	1	1	0	6.1	5.8	-0.3	0	0	0	0	0	0	0	0
9/5/2024 8:12	50103	HARR_T3	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/5/2024 8:12	14201	EALL_T1	0	0	0	0	0	0	0.49	0.53	0	0	0	0	0	0
9/5/2024 8:12	67503	WEWI_T2	1	1	0	9.5	9.3	-0.2	-0.25	-0.21	0	0	0	0	0	0
9/5/2024 8:12	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 8:13	45501	DERR_T2	1	1	0	0.2	0.5	0.3	0.79	0.77	2	2	0	1800	1800	0
9/5/2024 8:14	46102	MACI_T1	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
9/5/2024 8:15	55503	HERS_T1	0	0	0	0	0	0	-1.57	-1.58	1	1	0	1200	1200	0
9/5/2024 8:15	50107	HARR_T3	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
9/5/2024 8:15	50105	HARR_T3	6	6	0	6.05	6.07	0.02	0	0	0	0	0	0	0	0
9/5/2024 8:15	50102	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 8:15	50201	HARR_T3	1	1	0	0.8	0.8	0	-0.48	-0.44	1	1	0	1200	1200	0
9/5/2024 8:16	12801	MICK_T1	0	0	0	0	0	0	-0.94	-0.14	1	0	-1	600	0	-600
9/5/2024 8:16	12807	MICK_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/5/2024 8:16	12802	MICK_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 8:16	13503	MCMI_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 8:17	55002	NEWP_T1	7	8	1	0.77	1.04	0.27	0	0	0	0	0	0	0	0
9/5/2024 8:17	55001	NEWP_T1	1	1	0	0.2	0.2	0	-0.15	-0.07	0	0	0	0	0	0
9/5/2024 8:20	55001	NEWP_T1	1	1	0	0.2	0.2	0	-0.15	-0.07	0	0	0	0	0	0
9/5/2024 8:20	55002	NEWP_T1	7	8	1	0.77	1.04	0.27	-0.26	-0.22	0	0	0	0	0	0
9/5/2024 8:22	59202	THOM_T1	0	13	13	0	0.21	0.21	0	0	0	0	0	0	0	0
9/5/2024 8:23	20402	ASHF_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
9/5/2024 8:23	66703	STRA_T1	4	6	2	0.13	0.27	0.14	-0.06	-0.11	0	0	0	0	0	0
9/5/2024 8:23	20401	ASHF_T2	2	9	7	0.15	0.58	0.43	-0.28	-0.23	0	0	0	0	0	0
9/5/2024 8:23	29402	BELT_T1	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
9/5/2024 8:23	20403	ASHF_T2	0	67	67	0	0.22	0.22	0	0	0	0	0	0	0	0
9/5/2024 8:25	44801	EDAN_T2	238	168	-70	0.6	0.56	-0.04	-1.67	-1.67	0	0	0	0	0	0
9/5/2024 8:25	67503	WEWI_T2	1	1	0	9.3	9.3	0	0	0	0	0	0	0	0	0
9/5/2024 8:25	40802	EXCH_T2	1	1	0	0.4	0.6	0.2	0.04	-0.05	0	0	0	0	0	0
9/5/2024 8:25	40801	EXCH_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/5/2024 8:25	67502	WEWI_T2	1	2	1	0.2	0.35	0.15	-0.22	-0.28	0	0	0	0	0	0
9/5/2024 8:26	45501	DERR_T2	1	1	0	0.3	0.6	0.3	0.77	0.74	2	2	0	1800	1800	0
9/5/2024 8:26	11904	ETEX_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
9/5/2024 8:28	23403	HONE_T1	0	0	0	0	0	0	-0.73	-0.76	0	0	0	0	0	0
9/5/2024 8:28	63501	HEID_TBK1-2	29	34	5	0.31	0.28	-0.03	0.16	0.19	1	1	0	900	900	0
9/5/2024 8:28	23203	HIRU_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 8:28	23201	HIRU_T2	0	11	11	0	0.14	0.14	0.12	0.15	0	0	0	0	0	0
9/5/2024 8:28	23202	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 8:29	54505	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
9/5/2024 8:29	23401	HONE_T2	0	0	0	0	0	0	0.15	0.05	0	0	0	0	0	0
9/5/2024 8:29	54502	ENOL_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
9/5/2024 8:29	63501	HEID_TBK1-2	29	34	5	0.31	0.28	-0.03	0.16	0.19	1	1	0	900	900	0
9/5/2024 8:29	54504	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/5/2024 8:29	54501	ENOL_T2	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/5/2024 8:29	54506	ENOL_T2	0	0	0	0	0	0	0.03	0.02	1	1	0	600	600	0
9/5/2024 8:32	14603	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 8:32	14601	SWHI_T1	0	0	0	0	0	0	-0.27	-0.23	0	0	0	0	0	0
9/5/2024 8:33	13503	MCMI_T2	0	1	1	0	0.5	0.5	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 8:33	46302	ROHR_T1	4	4	0	1.3	1.78	0.48	-0.48	-0.47	0	0	0	0	0	0
9/5/2024 8:33	46301	ROHR_T1	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
9/5/2024 8:34	58202	NEWV_T1	0	0	0	0	0	0	0.59	0.44	0	0	0	0	0	0
9/5/2024 8:34	57203	ROSS_T1	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
9/5/2024 8:34	57205	ROSS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 8:34	46301	ROHR_T1	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
9/5/2024 8:34	46302	ROHR_T1	4	4	0	1.3	1.78	0.48	-0.48	-0.47	0	0	0	0	0	0
9/5/2024 8:35	55002	NEWP_T1	7	10	3	0.87	0.86	-0.01	-0.22	-0.23	0	0	0	0	0	0
9/5/2024 8:35	55001	NEWP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/5/2024 8:35	16605	PONO_T1	0	0	0	0	0	0	-0.54	-0.48	1	1	0	1200	1200	0
9/5/2024 8:35	59202	THOM_T1	3	13	10	0.13	0.22	0.09	0	0	0	0	0	0	0	0
9/5/2024 8:36	55002	NEWP_T1	7	10	3	0.87	0.86	-0.01	-0.22	-0.23	0	0	0	0	0	0
9/5/2024 8:36	55001	NEWP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/5/2024 8:36	15701	TANN_T1	1	2	1	4.8	2.55	-2.25	0	0	0	0	0	0	0	0
9/5/2024 8:36	15704	TANN_T1	0	0	0	0	0	0	-0.5	-0.41	0	0	0	0	0	0
9/5/2024 8:36	56501	ROCK_T2	3	3	0	0.9	0.97	0.07	-0.03	0	0	0	0	0	0	0
9/5/2024 8:37	59202	THOM_T1	3	13	10	0.13	0.22	0.09	0	0	0	0	0	0	0	0
9/5/2024 8:38	15203	SFAR_T2	82	175	93	0.18	0.34	0.16	-1.31	-1.28	0	0	0	0	0	0
9/5/2024 8:39	13704	SCHN_T2	0	1	1	0	0.2	0.2	-0.34	-0.32	0	0	0	0	0	0
9/5/2024 8:39	13701	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 8:40	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 8:40	67605	WARW_T1	12	15	3	0.43	0.55	0.12	0	0	0	0	0	0	0	0
9/5/2024 8:41	16001	DORN_T1	0	0	0	0	0	0	-0.87	-0.82	0	0	0	0	0	0
9/5/2024 8:42	45502	DERR_T2	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
9/5/2024 8:42	45501	DERR_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/5/2024 8:44	63403	HONY_T2	0	0	0	0	0	0	0.02	0.1	1	1	0	600	600	0
9/5/2024 8:44	22601	KIMB_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 8:44	54504	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/5/2024 8:44	22602	KIMB_T1	0	1	1	0	0.3	0.3	0.32	0.32	0	0	0	0	0	0
9/5/2024 8:44	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/5/2024 8:44	54505	ENOL_T2	1	1	0	0.8	0.8	0	-0.65	-0.65	1	1	0	600	600	0
9/5/2024 8:45	54505	ENOL_T2	1	1	0	0.8	0.8	0	-1.3	-1.3	2	2	0	1200	1200	0
9/5/2024 8:45	54502	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/5/2024 8:45	54504	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/5/2024 8:46	54502	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/5/2024 8:46	54504	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/5/2024 8:46	54505	ENOL_T2	1	1	0	0.8	0.8	0	-0.65	-0.65	1	1	0	600	600	0
9/5/2024 8:48	56501	ROCK_T2	3	3	0	0.97	0.9	-0.07	0	-0.02	0	0	0	0	0	0
9/5/2024 8:48	45702	LIND_T2	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
9/5/2024 8:48	51704	OBER_T1	0	0	0	0	0	0	-0.33	-0.38	0	0	0	0	0	0
9/5/2024 8:48	51702	OBER_T1	2	2	0	3.75	3.7	-0.05	0	0	0	0	0	0	0	0
9/5/2024 8:49	13103	NHAM_T2	0	0	0	0	0	0	-1.7	-1.62	1	1	0	600	600	0
9/5/2024 8:51	57303	MOAL_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
9/5/2024 8:51	55001	NEWP_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/5/2024 8:51	57306	MOAL_T2	0	0	0	0	0	0	-3.22	-3.22	1	1	0	1200	1200	0
9/5/2024 8:51	55002	NEWP_T1	7	12	5	1.03	0.77	-0.26	-0.23	-0.24	0	0	0	0	0	0
9/5/2024 8:52	51704	OBER_T1	0	0	0	0	0	0	-0.38	-0.22	0	0	0	0	0	0
9/5/2024 8:52	51702	OBER_T1	2	2	0	3.75	3.7	-0.05	0	0	0	0	0	0	0	0
9/5/2024 8:53	15203	SFAR_T2	172	162	-10	0.34	0.28	-0.06	0	0	0	0	0	0	0	0
9/5/2024 8:53	56501	ROCK_T2	3	3	0	0.97	0.9	-0.07	-0.02	0.01	0	0	0	0	0	0
9/5/2024 8:53	14802	TREI_T2	9	1	-8	0.2	0.1	-0.1	0.49	0.5	0	0	0	0	0	0
9/5/2024 8:53	14801	TREI_T2	26	3	-23	0.16	0.37	0.21	0	0	0	0	0	0	0	0
9/5/2024 8:53	15204	SFAR_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
9/5/2024 8:54	10805	CHHI_T2	1	2	1	7.7	4.5	-3.2	-0.67	-0.84	1	1	0	1200	1200	0
9/5/2024 8:54	15703	TANN_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
9/5/2024 8:54	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
9/5/2024 8:56	47203	FAXO_T2	0	0	0	0	0	0	-1.6	-1.53	1	1	0	1200	1200	0
9/5/2024 8:57	53501	EVIL_T2	1	2	1	0.4	0.2	-0.2	-0.01	-0.01	1	1	0	600	600	0
9/5/2024 8:57	28102	TWLA_T2	14	14	0	0.52	0.63	0.11	0.17	0.18	0	0	0	0	0	0
9/5/2024 8:58	14403	SSLA_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/5/2024 8:58	14404	SSLA_T1	53	6	-47	0.16	0.32	0.16	0.04	-0.02	0	0	0	0	0	0
9/5/2024 8:58	14402	SSLA_T1	28	3	-25	0.19	0.27	0.08	0	0	0	0	0	0	0	0
9/5/2024 8:58	14401	SSLA_T1	6	2	-4	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
9/5/2024 8:58	53501	EVIL_T2	1	2	1	0.4	0.2	-0.2	-0.01	-0.01	1	1	0	600	600	0
9/5/2024 8:58	28301	NEWF_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/5/2024 8:58	28303	NEWF_T1	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/5/2024 8:59	52006	LING_T2	2	2	0	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
9/5/2024 8:59	52004	LING_T2	3	4	1	4.63	3.45	-1.18	0.36	0.38	0	0	0	0	0	0
9/5/2024 8:59	52002	LING_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/5/2024 8:59	53501	EVIL_T2	1	2	1	0.4	0.2	-0.2	-0.01	-0.01	1	1	0	600	600	0
9/5/2024 9:00	40602	PIGR_T1	1	1	0	1.2	1.3	0.1	0.08	0.14	0	0	0	0	0	0
9/5/2024 9:00	11507	FREE_T2	0	0	0	0	0	0	0.77	0.8	0	0	0	0	0	0
9/5/2024 9:00	53501	EVIL_T2	2	2	0	0.2	0.1	-0.1	-0.01	-0.01	2	2	0	1200	1200	0
9/5/2024 9:00	40601	PIGR_T1	9	16	7	0.19	0.21	0.02	0	0	0	0	0	0	0	0
9/5/2024 9:03	15601	NSTR_T2	3	3	0	0.83	0.27	-0.56	0	0	0	0	0	0	0	0
9/5/2024 9:03	15603	NSTR_T2	0	1	1	0	0	0	-0.31	-0.35	0	0	0	0	0	0
9/5/2024 9:04	43801	SWIL_T1	8	4	-4	0.69	1.4	0.71	0	0	0	0	0	0	0	0
9/5/2024 9:04	43802	SWIL_T1	0	0	0	0	0	0	-0.06	-0.05	1	1	0	600	600	0
9/5/2024 9:05	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 9:07	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 9:07	51301	WIND_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 9:07	42201	SHEN_T2	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
9/5/2024 9:08	20401	ASHF_T2	2	3	1	0.25	0.37	0.12	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/5/2024 9:08	20403	ASHF_T2	0	5	5	0	0.4	0.4	1.08	1.22	0	0	0	0	0	0
9/5/2024 9:09	14401	SSLA_T1	2	0	-2	0.15	0	-0.15	-0.5	-0.42	0	0	0	0	0	0
9/5/2024 9:09	14403	SSLA_T1	1	1	0	1.7	0.2	-1.5	0	0	0	0	0	0	0	0
9/5/2024 9:09	14402	SSLA_T1	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0	0
9/5/2024 9:09	14404	SSLA_T1	6	5	-1	0.32	0.32	0	0	0	0	0	0	0	0	0
9/5/2024 9:10	15001	BLMO_T1	2	4	2	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/5/2024 9:10	44801	EDAN_T2	164	256	92	0.63	0.7	0.07	0	0	0	0	0	0	0	0
9/5/2024 9:10	44802	EDAN_T2	0	1	1	0	0.1	0.1	-1.31	-1.28	0	0	0	0	0	0
9/5/2024 9:10	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 9:11	20401	ASHF_T2	2	3	1	0.25	0.37	0.12	0	0	0	0	0	0	0	0
9/5/2024 9:11	62607	ENGL_T1	1	1	0	0.4	0.3	-0.1	-0.72	-0.71	0	0	0	0	0	0
9/5/2024 9:11	15001	BLMO_T1	2	4	2	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/5/2024 9:11	44802	EDAN_T2	0	1	1	0	0.1	0.1	-0.65	-0.64	0	0	0	0	0	0
9/5/2024 9:11	20403	ASHF_T2	0	5	5	0	0.4	0.4	1.08	1.22	0	0	0	0	0	0
9/5/2024 9:11	44801	EDAN_T2	164	256	92	0.63	0.7	0.07	0	0	0	0	0	0	0	0
9/5/2024 9:12	20401	ASHF_T2	2	3	1	0.25	0.37	0.12	0	0	0	0	0	0	0	0
9/5/2024 9:12	20403	ASHF_T2	0	5	5	0	0.4	0.4	1.08	1.22	0	0	0	0	0	0
9/5/2024 9:13	44801	EDAN_T2	164	256	92	0.63	0.7	0.07	0	0	0	0	0	0	0	0
9/5/2024 9:13	44802	EDAN_T2	0	1	1	0	0.1	0.1	-1.31	-1.28	0	0	0	0	0	0
9/5/2024 9:16	40101	HUNT_T2	1	1	0	0.1	0	-0.1	-0.42	-0.4	0	0	0	0	0	0
9/5/2024 9:18	52004	LING_T2	4	4	0	3.45	3.55	0.1	0.38	0.38	0	0	0	0	0	0
9/5/2024 9:18	55001	NEWP_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/5/2024 9:18	13503	MCMI_T2	1	1	0	0.5	1	0.5	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 9:18	55002	NEWP_T1	12	13	1	0.77	0.85	0.08	-0.21	-0.21	0	0	0	0	0	0
9/5/2024 9:18	52006	LING_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/5/2024 9:18	52002	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 9:19	41902	REED_T1	0	0	0	0	0	0	1.1	1.08	0	0	0	0	0	0
9/5/2024 9:21	41902	REED_T1	0	0	0	0	0	0	1.08	1.05	0	0	0	0	0	0
9/5/2024 9:22	13701	SCHN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 9:22	13704	SCHN_T2	1	1	0	0.1	0.5	0.4	-0.28	-0.18	0	0	0	0	0	0
9/5/2024 9:23	13701	SCHN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 9:23	45901	AUBU_T1	84	75	-9	0.25	0.25	0	0	0	0	0	0	0	0	0
9/5/2024 9:23	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/5/2024 9:23	66504	SMAN_T2	0	0	0	0	0	0	-0.61	-0.58	0	0	0	0	0	0
9/5/2024 9:23	67203	TEHI_T1	0	2	2	0	0	0	2.8	2.89	3	3	0	2100	2100	0
9/5/2024 9:23	13704	SCHN_T2	1	1	0	0.1	0.5	0.4	-0.28	-0.18	0	0	0	0	0	0
9/5/2024 9:23	45902	AUBU_T1	8	8	0	0.35	0.41	0.06	-0.02	0.12	0	0	0	0	0	0
9/5/2024 9:24	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/5/2024 9:24	66504	SMAN_T2	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
9/5/2024 9:25	45902	AUBU_T1	8	8	0	0.35	0.41	0.06	-0.02	0.12	0	0	0	0	0	0
9/5/2024 9:25	45901	AUBU_T1	84	75	-9	0.25	0.25	0	0	0	0	0	0	0	0	0
9/5/2024 9:25	60101	COCA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 9:26	45902	AUBU_T1	8	8	0	0.35	0.41	0.06	-0.02	0.12	0	0	0	0	0	0
9/5/2024 9:26	45901	AUBU_T1	84	75	-9	0.25	0.25	0	0	0	0	0	0	0	0	0
9/5/2024 9:26	60101	COCA_T1	0	1	1	0	0.1	0.1	0.28	0.27	0	0	0	0	0	0
9/5/2024 9:26	64602	LEOL_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
9/5/2024 9:27	60101	COCA_T1	0	1	1	0	0.1	0.1	0.28	0.27	0	0	0	0	0	0
9/5/2024 9:27	53501	EVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/5/2024 9:27	53502	EVIL_T2	0	0	0	0	0	0	0.74	0.91	1	1	0	600	600	0
9/5/2024 9:28	51602	DUKE_T2	0	0	0	0	0	0	-0.16	-0.08	0	0	0	0	0	0
9/5/2024 9:29	46801	HEPB_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
9/5/2024 9:29	46803	HEPB_T2	0	2	2	0	0.15	0.15	0.55	0.55	0	0	0	0	0	0
9/5/2024 9:29	50105	HARR_T3	6	6	0	6.2	6.25	0.05	0	0	0	0	0	0	0	0
9/5/2024 9:29	50103	HARR_T3	2	3	1	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
9/5/2024 9:29	50107	HARR_T3	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
9/5/2024 9:29	50201	HARR_T3	1	1	0	0.7	0.7	0	-0.44	-0.44	1	1	0	1200	1200	0
9/5/2024 9:29	50102	HARR_T3	8	7	-1	0.18	0.14	-0.04	0	0	0	0	0	0	0	0
9/5/2024 9:33	46801	HEPB_T2	2	2	0	1	0.9	-0.1	0.63	0.63	0	0	0	0	0	0
9/5/2024 9:33	46803	HEPB_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/5/2024 9:36	64802	MONE_T2	9	11	2	0.13	0.25	0.12	0.32	0.34	0	0	0	0	0	0
9/5/2024 9:36	64801	MONE_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
9/5/2024 9:38	67502	WEWI_T2	2	2	0	0.5	0.65	0.15	-0.17	-0.22	0	0	0	0	0	0
9/5/2024 9:38	67605	WARW_T1	8	12	4	0.33	0.44	0.11	-1.04	-1.01	0	0	0	0	0	0
9/5/2024 9:38	67503	WEWI_T2	1	1	0	9.1	9	-0.1	0	0	0	0	0	0	0	0
9/5/2024 9:41	44801	EDAN_T2	251	284	33	0.7	0.73	0.03	0	0	0	0	0	0	0	0
9/5/2024 9:41	44802	EDAN_T2	1	4	3	0.1	0.2	0.1	-0.63	-0.64	0	0	0	0	0	0
9/5/2024 9:41	59301	MCAL_T1	2	3	1	0.2	0.37	0.17	-1.41	-1.39	1	1	0	600	600	0
9/5/2024 9:41	67605	WARW_T1	8	12	4	0.33	0.44	0.11	-1.04	-1.01	0	0	0	0	0	0
9/5/2024 9:42	44801	EDAN_T2	251	284	33	0.7	0.73	0.03	0	0	0	0	0	0	0	0
9/5/2024 9:42	44802	EDAN_T2	1	4	3	0.1	0.2	0.1	-1.27	-1.28	0	0	0	0	0	0
9/5/2024 9:42	67605	WARW_T1	8	12	4	0.33	0.44	0.11	-1.04	-1.01	0	0	0	0	0	0
9/5/2024 9:42	11904	ETEX_T2	1	1	0	1	1.4	0.4	0.63	0.64	0	0	0	0	0	0
9/5/2024 9:43	50107	HARR_T3	1	1	0	6.5	6.2	-0.3	0	0	0	0	0	0	0	0
9/5/2024 9:43	50102	HARR_T3	7	1	-6	0.14	0.2	0.06	0	0	0	0	0	0	0	0
9/5/2024 9:43	50103	HARR_T3	3	4	1	0.67	0.53	-0.14	0	0	0	0	0	0	0	0
9/5/2024 9:43	11904	ETEX_T2	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
9/5/2024 9:43	62607	ENGL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/5/2024 9:43	50105	HARR_T3	6	6	0	6.33	6.28	-0.05	0	0	0	0	0	0	0	0
9/5/2024 9:43	50201	HARR_T3	1	1	0	0.7	0.6	-0.1	-0.44	-0.4	1	1	0	1200	1200	0
9/5/2024 9:43	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 9:43	62601	ENGL_T1	0	0	0	0	0	0	0.04	0.09	0	0	0	0	0	0
9/5/2024 9:44	44801	EDAN_T2	251	284	33	0.7	0.73	0.03	0	0	0	0	0	0	0	0
9/5/2024 9:44	44802	EDAN_T2	1	4	3	0.1	0.2	0.1	-0.63	-0.64	0	0	0	0	0	0
9/5/2024 9:44	50102	HARR_T3	7	1	-6	0.14	0.2	0.06	0	0	0	0	0	0	0	0
9/5/2024 9:44	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 9:44	50103	HARR_T3	3	4	1	0.67	0.53	-0.14	0	0	0	0	0	0	0	0
9/5/2024 9:44	20601	GRWO_T2	1	0	-1	0.1	0	-0.1	1.22	1.24	0	0	0	0	0	0
9/5/2024 9:44	50105	HARR_T3	6	6	0	6.33	6.28	-0.05	0	0	0	0	0	0	0	0
9/5/2024 9:44	50107	HARR_T3	1	1	0	6.5	6.2	-0.3	0	0	0	0	0	0	0	0
9/5/2024 9:44	28102	TWLA_T2	17	12	-5	0.56	0.38	-0.18	0.18	0.18	0	0	0	0	0	0
9/5/2024 9:44	50201	HARR_T3	1	1	0	0.7	0.6	-0.1	-0.44	-0.4	1	1	0	1200	1200	0
9/5/2024 9:45	44801	EDAN_T2	283	197	-86	0.73	0.81	0.08	0	0	0	0	0	0	0	0
9/5/2024 9:45	44802	EDAN_T2	4	1	-3	0.2	0.1	-0.1	-0.63	-0.64	0	0	0	0	0	0
9/5/2024 9:46	44801	EDAN_T2	283	197	-86	0.73	0.81	0.08	0	0	0	0	0	0	0	0
9/5/2024 9:46	44802	EDAN_T2	4	1	-3	0.2	0.1	-0.1	-0.63	-0.64	0	0	0	0	0	0
9/5/2024 9:47	20601	GRWO_T2	0	1	1	0	0	0	1.22	1.24	0	0	0	0	0	0
9/5/2024 9:47	25402	LAHA_T2	1	1	0	0.3	0.2	-0.1	-0.61	-0.57	0	0	0	0	0	0
9/5/2024 9:47	20603	GRWO_T2	0	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0
9/5/2024 9:47	52002	LING_T2	1	1	0	0.2	0.2	0	-0.05	-0.01	0	0	0	0	0	0
9/5/2024 9:47	52006	LING_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/5/2024 9:47	53501	EVIL_T2	0	2	2	0	0.2	0.2	-0.01	-0.01	1	1	0	600	600	0
9/5/2024 9:47	52004	LING_T2	4	4	0	3.55	3.48	-0.07	0	0	0	0	0	0	0	0
9/5/2024 9:47	25404	LAHA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/5/2024 9:48	41902	REED_T1	0	0	0	0	0	0	1.05	1.01	0	0	0	0	0	0
9/5/2024 9:49	42801	SELI_T1	0	0	0	0	0	0	-1.03	-1.01	1	1	0	1200	1200	0
9/5/2024 9:49	66502	SMAN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/5/2024 9:49	53501	EVIL_T2	0	2	2	0	0.2	0.2	-0.01	-0.01	1	1	0	600	600	0
9/5/2024 9:49	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 9:49	57403	SPAN_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/5/2024 9:49	57401	SPAN_T1	2	2	0	1.4	1.2	-0.2	-0.04	0.07	1	1	0	600	600	0
9/5/2024 9:50	57403	SPAN_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/5/2024 9:50	50501	MECH_T1	4	4	0	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
9/5/2024 9:50	66502	SMAN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/5/2024 9:50	43201	MVIL_T2	0	1	1	0	0.6	0.6	-1.32	-1.33	0	0	0	0	0	0
9/5/2024 9:50	66504	SMAN_T2	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
9/5/2024 9:50	50505	MECH_T1	0	0	0	0	0	0	-0.82	-0.82	0	0	0	0	0	0
9/5/2024 9:50	57401	SPAN_T1	2	2	0	1.4	1.2	-0.2	-0.04	0.07	1	1	0	600	600	0
9/5/2024 9:50	50506	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 9:50	50502	MECH_T1	4	1	-3	0.8	2.4	1.6	0	0	0	0	0	0	0	0
9/5/2024 9:51	66502	SMAN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/5/2024 9:51	66505	SMAN_T2	0	0	0	0	0	0	0.24	0.99	1	2	1	900	1500	600
9/5/2024 9:52	15703	TANN_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
9/5/2024 9:52	42302	MOWR_T2	0	0	0	0	0	0	1.39	0.16	0	0	0	0	0	0
9/5/2024 9:52	57401	SPAN_T1	2	2	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
9/5/2024 9:52	64801	MONE_T2	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
9/5/2024 9:52	64802	MONE_T2	11	8	-3	0.23	0.3	0.07	0.34	0.34	0	0	0	0	0	0
9/5/2024 9:52	15702	TANN_T2	0	1	1	0	0.2	0.2	-0.41	-0.4	0	0	0	0	0	0
9/5/2024 9:52	57403	SPAN_T1	2	1	-1	0.15	0.1	-0.05	0.05	0.09	0	0	0	0	0	0
9/5/2024 9:53	44201	POIN_T1	0	0	0	0	0	0	-1.29	-1.2	2	2	0	2100	2100	0
9/5/2024 9:54	45902	AUBU_T1	6	2	-4	0.43	1.15	0.72	0.13	0.11	0	0	0	0	0	0
9/5/2024 9:54	16103	BING_T2	0	0	0	0	0	0	-0.91	-0.85	2	2	0	1500	1500	0
9/5/2024 9:54	45901	AUBU_T1	59	30	-29	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
9/5/2024 9:54	57403	SPAN_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/5/2024 9:54	43101	SMIL_T2	1	1	0	0.8	0.9	0.1	-0.65	-0.66	0	0	0	0	0	0
9/5/2024 9:54	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 9:54	43103	SMIL_T2	25	22	-3	0.82	0.71	-0.11	0	0	0	0	0	0	0	0
9/5/2024 9:54	57401	SPAN_T1	2	2	0	1.4	1.2	-0.2	0.13	-0.17	2	2	0	1200	1200	0
9/5/2024 9:54	43102	SMIL_T2	6	6	0	0.83	0.73	-0.1	0	0	0	0	0	0	0	0
9/5/2024 9:54	43105	SMIL_T2	11	3	-8	0.31	0.53	0.22	0	0	0	0	0	0	0	0
9/5/2024 9:54	43104	SMIL_T2	3	2	-1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
9/5/2024 9:55	29402	BELT_T1	2	2	0	4.35	4.3	-0.05	0	0	0	0	0	0	0	0
9/5/2024 9:55	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 9:55	57403	SPAN_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/5/2024 9:55	57401	SPAN_T1	2	2	0	1.4	1.2	-0.2	0.07	-0.09	1	1	0	600	600	0
9/5/2024 9:57	45901	AUBU_T1	59	30	-29	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
9/5/2024 9:57	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 9:57	45902	AUBU_T1	6	2	-4	0.43	1.15	0.72	0.13	0.11	0	0	0	0	0	0
9/5/2024 10:00	12807	MICK_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/5/2024 10:00	28102	TWLA_T2	7	15	8	0.16	0.61	0.45	0.18	0.18	0	0	0	0	0	0
9/5/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
9/5/2024 10:00	59001	MIFF_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/5/2024 10:00	54504	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 10:00	46302	ROHR_T1	4	4	0	1.48	1.4	-0.08	-0.46	-0.11	0	0	0	0	0	0
9/5/2024 10:00	67503	WEWI_T2	1	1	0	8.9	8.7	-0.2	-0.08	-0.08	0	0	0	0	0	0
9/5/2024 10:00	12801	MICK_T1	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
9/5/2024 10:00	52004	LING_T2	4	4	0	3.48	3.33	-0.15	0	0	0	0	0	0	0	0
9/5/2024 10:00	46301	ROHR_T1	4	5	1	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
9/5/2024 10:00	56501	ROCK_T2	2	3	1	0.9	0.6	-0.3	0.04	0.03	0	0	0	0	0	0
9/5/2024 10:00	15701	TANN_T1	2	2	0	2.35	2.35	0	0	0	0	0	0	0	0	0
9/5/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.47	0.53	0	0	0	0	0	0
9/5/2024 10:00	52402	GRPA_T2	5	8	3	0.42	0.46	0.04	0	0	0	0	0	0	0	0
9/5/2024 10:00	15704	TANN_T1	0	0	0	0	0	0	-0.14	-0.19	0	0	0	0	0	0
9/5/2024 10:00	59002	MIFF_T1	0	5	5	0	0.52	0.52	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/5/2024 10:00	52002	LING_T2	1	0	-1	0.2	0	-0.2	-0.02	-0.03	0	0	0	0	0	0
9/5/2024 10:00	67502	WEWI_T2	2	2	0	0.6	1	0.4	0	0	0	0	0	0	0	0
9/5/2024 10:00	66504	SMAN_T2	0	0	0	0	0	0	-0.53	-0.32	0	0	0	0	0	0
9/5/2024 10:00	12802	MICK_T1	0	0	0	0	0	0	-0.95	-0.93	0	0	0	0	0	0
9/5/2024 10:00	66502	SMAN_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/5/2024 10:00	13503	MCMI_T2	1	1	0	0.9	1	0.1	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 10:00	40101	HUNT_T2	1	1	0	0.3	0.5	0.2	-0.36	-0.3	0	0	0	0	0	0
9/5/2024 10:00	59003	MIFF_T1	0	1	1	0	0.4	0.4	-0.43	-0.5	0	0	0	0	0	0
9/5/2024 10:00	54505	ENOL_T2	1	1	0	0.3	0.4	0.1	-0.65	-0.65	1	1	0	600	600	0
9/5/2024 10:00	13905	SEID_T1	0	0	0	0	0	0	0.34	0.38	0	0	0	0	0	0
9/5/2024 10:00	65601	DVIL_T2	0	0	0	0	0	0	-1.88	-1.78	2	2	0	1800	1800	0
9/5/2024 10:00	52006	LING_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/5/2024 10:00	16402	MOPO_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
9/5/2024 10:00	52403	GRPA_T2	108	142	34	1.12	1.47	0.35	-0.12	-0.09	0	0	0	0	0	0
9/5/2024 10:07	12801	MICK_T1	0	0	0	0	0	0	-0.04	0	0	0	0	0	0	0
9/5/2024 10:07	16402	MOPO_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
9/5/2024 10:07	12802	MICK_T1	0	0	0	0	0	0	-0.93	-0.91	0	0	0	0	0	0
9/5/2024 10:07	12807	MICK_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/5/2024 10:08	15702	TANN_T2	0	1	1	0	0.2	0.2	-0.4	-0.3	0	0	0	0	0	0
9/5/2024 10:08	43801	SWIL_T1	2	2	0	2.55	2.55	0	0	0	0	0	0	0	0	0
9/5/2024 10:08	15204	SFAR_T2	1	3	2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/5/2024 10:08	46301	ROHR_T1	4	5	1	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
9/5/2024 10:08	43402	BENT_T1	2	2	0	0.6	0.25	-0.35	0.2	0.18	0	0	0	0	0	0
9/5/2024 10:08	42601	TUSC_T1	0	0	0	0	0	0	0.52	0.42	2	2	0	1800	1800	0
9/5/2024 10:08	15203	SFAR_T2	19	7	-12	0.24	0.57	0.33	-1.13	-1.11	0	0	0	0	0	0
9/5/2024 10:08	15703	TANN_T2	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
9/5/2024 10:08	56501	ROCK_T2	2	3	1	0.9	0.6	-0.3	0.03	0.06	0	0	0	0	0	0
9/5/2024 10:08	10602	BLGL_T2	0	1	1	0	0.2	0.2	1.15	1.02	0	0	0	0	0	0
9/5/2024 10:08	46302	ROHR_T1	4	4	0	1.48	1.4	-0.08	-0.11	0.15	0	0	0	0	0	0
9/5/2024 10:08	43802	SWIL_T1	0	1	1	0	0	0	0.03	-0.02	1	1	0	600	600	0
9/5/2024 10:09	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 10:09	43102	SMIL_T2	6	6	0	0.73	0.57	-0.16	0	0	0	0	0	0	0	0
9/5/2024 10:09	43104	SMIL_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
9/5/2024 10:09	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 10:09	59202	THOM_T1	1	3	2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/5/2024 10:09	43105	SMIL_T2	3	2	-1	0.53	0.65	0.12	0	0	0	0	0	0	0	0
9/5/2024 10:09	59201	THOM_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/5/2024 10:09	43103	SMIL_T2	22	23	1	0.71	0.46	-0.25	0	0	0	0	0	0	0	0
9/5/2024 10:09	29402	BELT_T1	1	2	1	8.5	4.35	-4.15	0	0	0	0	0	0	0	0
9/5/2024 10:09	13704	SCHN_T2	1	1	0	0.4	0.2	-0.2	-0.26	-0.26	0	0	0	0	0	0
9/5/2024 10:09	13701	SCHN_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/5/2024 10:09	67605	WARW_T1	11	28	17	0.44	0.64	0.2	-2.01	-1.83	0	0	0	0	0	0
9/5/2024 10:09	54206	PENN_T2	0	1	1	0	0.1	0.1	0.31	0.3	0	0	0	0	0	0
9/5/2024 10:09	20401	ASHF_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/5/2024 10:09	20403	ASHF_T2	1	5	4	0.3	0.4	0.1	2.67	2.56	0	0	0	0	0	0
9/5/2024 10:09	66502	SMAN_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/5/2024 10:09	43101	SMIL_T2	1	1	0	0.9	1	0.1	-0.66	-0.61	0	0	0	0	0	0
9/5/2024 10:09	54202	PENN_T2	0	0	0	0	0	0	-0.3	-0.37	0	0	0	0	0	0
9/5/2024 10:09	44301	BEAV_T2	1	10	9	1.1	0.26	-0.84	0.08	0.06	2	2	0	1500	1500	0
9/5/2024 10:09	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 10:09	67603	WARW_T1	0	2	2	0	0.5	0.5	0.05	0.06	0	0	0	0	0	0
9/5/2024 10:10	67502	WEWI_T2	2	2	0	0.6	1	0.4	-0.42	-0.25	0	0	0	0	0	0
9/5/2024 10:10	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 10:10	44301	BEAV_T2	1	10	9	1.1	0.26	-0.84	0.08	0.06	2	2	0	1500	1500	0
9/5/2024 10:10	59201	THOM_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/5/2024 10:10	66502	SMAN_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/5/2024 10:10	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 10:10	59202	THOM_T1	1	3	2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/5/2024 10:10	51306	WIND_T2	0	0	0	0	0	0	0.18	0.23	0	0	0	0	0	0
9/5/2024 10:10	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 10:10	16103	BING_T2	0	0	0	0	0	0	-0.85	-0.82	2	2	0	1500	1500	0
9/5/2024 10:10	66504	SMAN_T2	0	0	0	0	0	0	-0.32	-0.38	0	0	0	0	0	0
9/5/2024 10:10	45902	AUBU_T1	2	2	0	0.95	1.2	0.25	0.21	0.22	0	0	0	0	0	0
9/5/2024 10:10	51304	WIND_T2	1	1	0	0.6	1.4	0.8	0	0	0	0	0	0	0	0
9/5/2024 10:10	67503	WEWI_T2	1	1	0	8.9	8.7	-0.2	0	0	0	0	0	0	0	0
9/5/2024 10:10	45901	AUBU_T1	21	35	14	0.2	0.21	0.01	0	0	0	0	0	0	0	0
9/5/2024 10:10	29402	BELT_T1	1	2	1	8.5	4.35	-4.15	0	0	0	0	0	0	0	0
9/5/2024 10:11	59201	THOM_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/5/2024 10:11	45501	DERR_T2	0	0	0	0	0	0	0.94	0.87	2	2	0	1800	1800	0
9/5/2024 10:11	45902	AUBU_T1	2	2	0	0.95	1.2	0.25	0	0	0	0	0	0	0	0
9/5/2024 10:11	16101	BING_T2	0	1	1	0	0	0	0.42	0.43	0	0	0	0	0	0
9/5/2024 10:11	20401	ASHF_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/5/2024 10:11	45502	DERR_T2	0	1	1	0	0	0	0.29	0.31	1	1	0	300	300	0
9/5/2024 10:11	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 10:11	15203	SFAR_T2	19	7	-12	0.24	0.57	0.33	-1.13	-1.11	0	0	0	0	0	0
9/5/2024 10:11	45901	AUBU_T1	21	35	14	0.2	0.21	0.01	1.13	1.27	0	0	0	0	0	0
9/5/2024 10:11	59202	THOM_T1	1	3	2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/5/2024 10:11	15204	SFAR_T2	1	3	2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/5/2024 10:11	20403	ASHF_T2	1	5	4	0.3	0.4	0.1	1.33	1.28	0	0	0	0	0	0
9/5/2024 10:11	44301	BEAV_T2	1	10	9	1.1	0.26	-0.84	0	0	0	0	0	0	0	0
9/5/2024 10:12	44301	BEAV_T2	1	10	9	1.1	0.26	-0.84	0.08	0.06	2	2	0	1500	1500	0
9/5/2024 10:12	26704	HEMI_T2	0	0	0	0	0	0	-0.47	-0.46	1	1	0	1200	1200	0
9/5/2024 10:13	63403	HONY_T2	0	0	0	0	0	0	0.2	0.21	1	1	0	600	600	0
9/5/2024 10:13	50103	HARR_T3	4	2	-2	0.35	0.5	0.15	0	0	0	0	0	0	0	0
9/5/2024 10:13	50201	HARR_T3	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/5/2024 10:13	23203	HIRU_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 10:13	44301	BEAV_T2	1	10	9	1.1	0.26	-0.84	0.08	0.06	2	2	0	1500	1500	0
9/5/2024 10:13	50105	HARR_T3	6	6	0	6.37	6.45	0.08	0	0	0	0	0	0	0	0
9/5/2024 10:13	23201	HIRU_T2	8	11	3	0.16	0.2	0.04	0	0	0	0	0	0	0	0
9/5/2024 10:13	50107	HARR_T3	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
9/5/2024 10:13	63501	HEID_TBK1-2	47	47	0	0.5	0.53	0.03	0.32	0.35	1	1	0	900	900	0
9/5/2024 10:13	23202	HIRU_T2	1	2	1	0.2	0.2	0	0.09	0.09	0	0	0	0	0	0
9/5/2024 10:13	61005	DONV_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 10:13	61001	DONV_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
9/5/2024 10:14	45901	AUBU_T1	21	35	14	0.2	0.21	0.01	0	0	0	0	0	0	0	0
9/5/2024 10:14	53502	EVIL_T2	0	0	0	0	0	0	0.83	0.28	1	2	1	600	1200	600
9/5/2024 10:14	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 10:14	52402	GRPA_T2	5	8	3	0.42	0.46	0.04	0	0	0	0	0	0	0	0
9/5/2024 10:14	25404	LAHA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 10:14	25402	LAHA_T2	1	1	0	0.2	0.3	0.1	-0.44	-0.41	0	0	0	0	0	0
9/5/2024 10:14	52006	LING_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/5/2024 10:14	52004	LING_T2	4	4	0	3.48	3.33	-0.15	0.42	0.42	0	0	0	0	0	0
9/5/2024 10:14	48302	ORWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 10:14	45501	DERR_T2	0	0	0	0	0	0	0.94	0.87	2	2	0	1800	1800	0
9/5/2024 10:14	26402	INOR_T1	0	1	1	0	0.2	0.2	-1.82	-1.78	1	1	0	600	600	0
9/5/2024 10:14	52002	LING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/5/2024 10:14	45902	AUBU_T1	2	2	0	0.95	1.2	0.25	0.21	0.22	0	0	0	0	0	0
9/5/2024 10:14	26401	INOR_T1	1	2	1	6.1	3.85	-2.25	0	0	0	0	0	0	0	0
9/5/2024 10:14	44301	BEAV_T2	1	10	9	1.1	0.26	-0.84	0.08	0.06	2	2	0	1500	1500	0
9/5/2024 10:14	61502	EPET_T1	0	0	0	0	0	0	-0.58	-0.68	0	0	0	0	0	0
9/5/2024 10:14	52403	GRPA_T2	108	142	34	1.12	1.47	0.35	-0.09	-0.05	0	0	0	0	0	0
9/5/2024 10:14	53501	EVIL_T2	1	3	2	0.2	1.37	1.17	-0.01	-0.01	2	4	2	1200	3000	1800
9/5/2024 10:14	40101	HUNT_T2	1	1	0	0.3	0.5	0.2	-0.3	-0.35	0	0	0	0	0	0
9/5/2024 10:14	63501	HEID_TBK1-2	47	47	0	0.5	0.53	0.03	0.32	0.35	1	1	0	900	900	0
9/5/2024 10:15	53501	EVIL_T2	1	3	2	3	0.6	-2.4	-0.01	-0.01	1	2	1	600	1500	900
9/5/2024 10:15	53601	DALM_T2	1	1	0	0.3	0.6	0.3	0.16	0.08	0	0	0	0	0	0
9/5/2024 10:16	52004	LING_T2	4	5	1	3.33	2.82	-0.51	0.42	0.42	0	0	0	0	0	0
9/5/2024 10:16	23201	HIRU_T2	3	32	29	0.23	0.16	-0.07	0	0	0	0	0	0	0	0
9/5/2024 10:16	64101	REFR_T1	1	1	0	0.1	0.1	0	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 10:16	23203	HIRU_T2	0	9	9	0	0.11	0.11	0.06	0.16	0	0	0	0	0	0
9/5/2024 10:16	23202	HIRU_T2	1	8	7	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
9/5/2024 10:16	25501	MADI_T1	4	4	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
9/5/2024 10:16	25502	MADI_T1	2	2	0	0.25	0.7	0.45	0	0	0	0	0	0	0	0
9/5/2024 10:16	25503	MADI_T1	37	97	60	0.19	0.3	0.11	-0.92	-0.95	0	0	0	0	0	0
9/5/2024 10:16	52006	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/5/2024 10:17	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 10:17	40101	HUNT_T2	1	2	1	0.6	0	-0.6	-0.3	-0.35	0	0	0	0	0	0
9/5/2024 10:17	40201	BEGA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/5/2024 10:17	64305	LINC_T1	0	0	0	0	0	0	0	0.06	0	0	0	0	0	0
9/5/2024 10:18	64802	MONE_T2	6	8	2	0.3	0.34	0.04	0.34	0.36	0	0	0	0	0	0
9/5/2024 10:18	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 10:18	56501	ROCK_T2	3	3	0	0.6	0.9	0.3	0.03	0.06	0	0	0	0	0	0
9/5/2024 10:18	64801	MONE_T2	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
9/5/2024 10:19	64802	MONE_T2	6	8	2	0.3	0.34	0.04	0.34	0.36	0	0	0	0	0	0
9/5/2024 10:19	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 10:19	16004	DORN_T1	1	0	-1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
9/5/2024 10:19	64801	MONE_T2	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
9/5/2024 10:19	58101	NEKI_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
9/5/2024 10:19	13502	MCMI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/5/2024 10:19	58102	NEKI_T1	2	2	0	1	0.85	-0.15	-0.82	-0.7	1	1	0	1200	1200	0
9/5/2024 10:19	12801	MICK_T1	0	0	0	0	0	0	-0.04	0	0	0	0	0	0	0
9/5/2024 10:20	52004	LING_T2	4	5	1	3.33	2.82	-0.51	0.42	0.42	0	0	0	0	0	0
9/5/2024 10:20	14402	SSLA_T1	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
9/5/2024 10:20	53802	MBRG_T2	0	0	0	0	0	0	1.06	0.48	0	0	0	0	0	0
9/5/2024 10:20	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 10:20	57403	SPAN_T1	1	3	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0
9/5/2024 10:20	42201	SHEN_T2	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
9/5/2024 10:20	57401	SPAN_T1	2	4	2	0.75	0.93	0.18	-0.09	-0.29	1	1	0	600	600	0
9/5/2024 10:20	52006	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/5/2024 10:20	14403	SSLA_T1	1	3	2	0.2	0.43	0.23	0.77	0.8	0	0	0	0	0	0
9/5/2024 10:20	14404	SSLA_T1	4	4	0	0.2	0.38	0.18	0	0	0	0	0	0	0	0
9/5/2024 10:21	14801	TREI_T2	2	3	1	0.25	0.33	0.08	0.46	0.48	0	0	0	0	0	0
9/5/2024 10:21	67203	TEHI_T1	2	2	0	0.5	0.2	-0.3	2.94	3.03	3	3	0	2100	2100	0
9/5/2024 10:21	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 10:21	14403	SSLA_T1	1	3	2	0.2	0.43	0.23	0.8	0.79	0	0	0	0	0	0
9/5/2024 10:21	57403	SPAN_T1	1	3	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0
9/5/2024 10:21	14404	SSLA_T1	4	4	0	0.2	0.38	0.18	0.07	0.09	0	0	0	0	0	0
9/5/2024 10:21	57401	SPAN_T1	2	4	2	0.75	0.93	0.18	-0.26	-0.86	3	3	0	1800	1800	0
9/5/2024 10:21	14402	SSLA_T1	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
9/5/2024 10:22	59101	WALK_T2	0	3	3	0	0.53	0.53	2.17	1.99	0	0	0	0	0	0
9/5/2024 10:22	57401	SPAN_T1	2	4	2	0.75	0.93	0.18	-0.29	-0.26	1	1	0	600	600	0
9/5/2024 10:22	59102	WALK_T2	0	5	5	0	0.52	0.52	0	0	0	0	0	0	0	0
9/5/2024 10:22	57403	SPAN_T1	1	3	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/5/2024 10:22	14404	SSLA_T1	4	4	0	0.2	0.38	0.18	0.07	0.09	0	0	0	0	0	0
9/5/2024 10:22	66505	SMAN_T2	0	0	0	0	0	0	0.71	0.85	2	2	0	1100	1100	0
9/5/2024 10:22	14402	SSLA_T1	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
9/5/2024 10:22	15703	TANN_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
9/5/2024 10:22	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 10:22	21701	SUBU_T1	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
9/5/2024 10:22	15702	TANN_T2	1	2	1	0.2	0.4	0.2	-0.3	-0.28	0	0	0	0	0	0
9/5/2024 10:22	21705	SUBU_T1	1	1	0	6	6	0	0.7	0.8	0	0	0	0	0	0
9/5/2024 10:22	14403	SSLA_T1	1	3	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
9/5/2024 10:22	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/5/2024 10:23	60102	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 10:23	59102	WALK_T2	0	5	5	0	0.52	0.52	0	0	0	0	0	0	0	0
9/5/2024 10:23	65202	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 10:23	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 10:23	59101	WALK_T2	0	3	3	0	0.53	0.53	2.17	1.99	0	0	0	0	0	0
9/5/2024 10:23	60101	COCA_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/5/2024 10:23	15001	BLMO_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
9/5/2024 10:23	56501	ROCK_T2	3	3	0	0.6	0.9	0.3	0.13	0.13	0	0	0	0	0	0
9/5/2024 10:23	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 10:24	60102	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 10:24	20401	ASHF_T2	0	2	2	0	0.1	0.1	-0.09	-0.1	0	0	0	0	0	0
9/5/2024 10:24	20403	ASHF_T2	1	9	8	0.1	0.47	0.37	0	0	0	0	0	0	0	0
9/5/2024 10:24	60101	COCA_T1	1	1	0	0.1	0.3	0.2	0.78	0.91	0	0	0	0	0	0
9/5/2024 10:24	15001	BLMO_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
9/5/2024 10:25	63401	HONY_T1	0	0	0	0	0	0	0.21	0.2	1	1	0	600	600	0
9/5/2024 10:25	62102	ELAN_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/5/2024 10:25	51302	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 10:25	15204	SFAR_T2	2	3	1	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
9/5/2024 10:25	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 10:25	60102	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 10:25	60101	COCA_T1	1	1	0	0.1	0.3	0.2	0.39	0.45	0	0	0	0	0	0
9/5/2024 10:25	51304	WIND_T2	1	1	0	1.1	1.7	0.6	0.68	0.71	0	0	0	0	0	0
9/5/2024 10:25	62105	ELAN_T1	1	0	-1	0.1	0	-0.1	0.43	0.43	0	0	0	0	0	0
9/5/2024 10:25	67605	WARW_T1	16	34	18	0.56	0.61	0.05	0	0	0	0	0	0	0	0
9/5/2024 10:25	15203	SFAR_T2	5	10	5	0.52	0.44	-0.08	-1.11	-1.09	0	0	0	0	0	0
9/5/2024 10:25	67603	WARW_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
9/5/2024 10:25	42701	AUGU_T1	2	3	1	0.45	0.73	0.28	0	0	2	2	0	1800	1800	0
9/5/2024 10:26	44801	EDAN_T2	170	155	-15	0.72	0.7	-0.02	0	0	0	0	0	0	0	0
9/5/2024 10:26	13701	SCHN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/5/2024 10:26	44802	EDAN_T2	0	0	0	0	0	0	-0.62	-0.58	0	0	0	0	0	0
9/5/2024 10:26	67605	WARW_T1	16	34	18	0.56	0.61	0.05	-2.74	-2.81	0	0	0	0	0	0
9/5/2024 10:26	67603	WARW_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
9/5/2024 10:26	62604	ENGL_T1	0	0	0	0	0	0	-0.68	-0.65	1	1	0	600	600	0
9/5/2024 10:26	59101	WALK_T2	0	3	3	0	0.53	0.53	2.17	1.99	0	0	0	0	0	0
9/5/2024 10:26	60101	COCA_T1	1	1	0	0.1	0.3	0.2	0.39	0.45	0	0	0	0	0	0
9/5/2024 10:26	51302	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 10:26	60102	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 10:26	13704	SCHN_T2	1	1	0	0.2	0.3	0.1	-0.26	-0.25	0	0	0	0	0	0
9/5/2024 10:26	56501	ROCK_T2	3	3	0	0.6	0.9	0.3	0.06	0.06	0	0	0	0	0	0
9/5/2024 10:26	51304	WIND_T2	1	1	0	1.1	1.7	0.6	0	0	0	0	0	0	0	0
9/5/2024 10:26	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 10:26	59102	WALK_T2	0	5	5	0	0.52	0.52	0	0	0	0	0	0	0	0
9/5/2024 10:27	44801	EDAN_T2	170	155	-15	0.72	0.7	-0.02	-1.49	-1.55	0	0	0	0	0	0
9/5/2024 10:27	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0.38	0.39	0	0	0	0	0	0
9/5/2024 10:27	44802	EDAN_T2	0	0	0	0	0	0	-0.62	-0.58	0	0	0	0	0	0
9/5/2024 10:27	53501	EVIL_T2	1	3	2	3	0.6	-2.4	-0.01	-0.01	2	2	0	1500	1500	0
9/5/2024 10:28	60102	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 10:28	44802	EDAN_T2	0	0	0	0	0	0	-0.62	-0.58	0	0	0	0	0	0
9/5/2024 10:28	44801	EDAN_T2	170	155	-15	0.72	0.7	-0.02	0	0	0	0	0	0	0	0
9/5/2024 10:28	60101	COCA_T1	1	1	0	0.1	0.3	0.2	0.78	0.91	0	0	0	0	0	0
9/5/2024 10:28	53501	EVIL_T2	1	3	2	3	0.6	-2.4	-0.01	-0.01	2	2	0	1500	1500	0
9/5/2024 10:29	44801	EDAN_T2	170	155	-15	0.72	0.7	-0.02	0	0	0	0	0	0	0	0
9/5/2024 10:29	40901	JESH_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/5/2024 10:29	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 10:29	44802	EDAN_T2	0	0	0	0	0	0	-1.85	-1.75	0	0	0	0	0	0
9/5/2024 10:30	10801	CHHI_T1	0	6	6	0	0.32	0.32	-0.78	-0.62	1	1	0	900	900	0
9/5/2024 10:31	60102	COCA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/5/2024 10:31	60101	COCA_T1	1	1	0	0.3	0.2	-0.1	0.39	0.45	0	0	0	0	0	0
9/5/2024 10:32	43202	MVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 10:32	43201	MVIL_T2	1	1	0	0.2	0.8	0.6	-1.31	-1.21	0	0	0	0	0	0
9/5/2024 10:33	47901	HRDG_T1	0	0	0	0	0	0	2.06	1.88	0	0	0	0	0	0
9/5/2024 10:34	65901	SAKR_T2	1	1	0	7.6	7.4	-0.2	0	0	0	0	0	0	0	0
9/5/2024 10:34	65904	SAKR_T2	4	6	2	0.18	0.27	0.09	-2	-1.98	3	3	0	1500	1500	0
9/5/2024 10:35	64503	LAVI_T1	0	0	0	0	0	0	-1.52	-1.48	2	2	0	2100	2100	0
9/5/2024 10:35	46004	BERW_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
9/5/2024 10:35	65604	QVIL_T2	0	0	0	0	0	0	0.38	0.41	0	0	0	0	0	0
9/5/2024 10:37	52004	LING_T2	4	6	2	3.28	2.33	-0.95	0.45	0.46	0	0	0	0	0	0
9/5/2024 10:38	67201	TEHI_T1	0	0	0	0	0	0	1.36	1.09	1	1	0	900	900	0
9/5/2024 10:38	67203	TEHI_T1	2	1	-1	1.15	0.4	-0.75	0	0	0	0	0	0	0	0
9/5/2024 10:39	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
9/5/2024 10:39	16103	BING_T2	0	1	1	0	0.2	0.2	-0.81	-0.82	2	2	0	1500	1500	0
9/5/2024 10:39	56501	ROCK_T2	3	2	-1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
9/5/2024 10:39	16101	BING_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/5/2024 10:39	67605	WARW_T1	28	32	4	0.63	0.58	-0.05	-0.94	-0.98	0	0	0	0	0	0
9/5/2024 10:39	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 10:39	67603	WARW_T1	2	3	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/5/2024 10:39	15702	TANN_T2	1	3	2	0.2	2.97	2.77	-0.28	-0.29	0	0	0	0	0	0
9/5/2024 10:39	16102	BING_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/5/2024 10:39	56504	ROCK_T2	0	1	1	0	0.7	0.7	0	-0.02	0	0	0	0	0	0
9/5/2024 10:40	64202	KINZ_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/5/2024 10:40	64204	KINZ_T1	3	21	18	0.47	0.29	-0.18	0	0	0	0	0	0	0	0
9/5/2024 10:40	64203	KINZ_T1	0	0	0	0	0	0	0.38	0.34	3	3	0	2100	2100	0
9/5/2024 10:42	20403	ASHF_T2	5	10	5	0.4	0.59	0.19	1.25	1.26	0	0	0	0	0	0
9/5/2024 10:42	20401	ASHF_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/5/2024 10:43	40201	BEGA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/5/2024 10:43	52403	GRPA_T2	142	145	3	1.46	1.44	-0.02	0	0	0	0	0	0	0	0
9/5/2024 10:43	52402	GRPA_T2	6	10	4	0.52	0.6	0.08	-0.74	-0.75	0	0	0	0	0	0
9/5/2024 10:44	67503	WEWI_T2	1	1	0	8.6	8.8	0.2	-0.07	0.03	0	0	0	0	0	0
9/5/2024 10:44	67502	WEWI_T2	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
9/5/2024 10:45	52403	GRPA_T2	145	127	-18	1.44	1.26	-0.18	-0.06	-0.05	0	0	0	0	0	0
9/5/2024 10:45	52402	GRPA_T2	10	13	3	0.6	0.53	-0.07	-0.74	-0.75	0	0	0	0	0	0
9/5/2024 10:45	11507	FREE_T2	0	0	0	0	0	0	0.83	0.78	0	0	0	0	0	0
9/5/2024 10:46	53501	EVIL_T2	3	3	0	0.57	0.6	0.03	-0.01	-0.01	2	2	0	1500	1500	0
9/5/2024 10:47	12001	HATF_T1	0	0	0	0	0	0	1.39	1.59	2	2	0	1200	1200	0
9/5/2024 10:47	52403	GRPA_T2	145	127	-18	1.44	1.26	-0.18	0	0	0	0	0	0	0	0
9/5/2024 10:47	12006	HATF_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/5/2024 10:47	59003	MIFF_T1	1	1	0	1	0.7	-0.3	-1.18	-1.09	0	0	0	0	0	0
9/5/2024 10:47	59002	MIFF_T1	5	5	0	0.98	0.48	-0.5	0	0	0	0	0	0	0	0
9/5/2024 10:47	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 10:47	52402	GRPA_T2	10	13	3	0.6	0.53	-0.07	-0.74	-0.75	0	0	0	0	0	0
9/5/2024 10:48	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 10:48	20601	GRWO_T2	0	1	1	0	0.1	0.1	1.22	1.31	0	0	0	0	0	0
9/5/2024 10:49	21206	ECAR_T2	2	2	0	4.05	4.25	0.2	0	0	0	0	0	0	0	0
9/5/2024 10:49	21204	ECAR_T2	1	1	0	0	0	0	-0.61	-0.67	0	0	0	0	0	0
9/5/2024 10:49	55001	NEWP_T1	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
9/5/2024 10:49	55002	NEWP_T1	21	17	-4	0.6	0.78	0.18	-0.18	-0.21	0	0	0	0	0	0
9/5/2024 10:50	55002	NEWP_T1	21	17	-4	0.6	0.78	0.18	0	0	0	0	0	0	0	0
9/5/2024 10:50	66703	STRA_T1	1	1	0	0.3	0.4	0.1	0.15	0.13	0	0	0	0	0	0
9/5/2024 10:50	55001	NEWP_T1	2	2	0	0.2	0.35	0.15	0.04	0.13	0	0	0	0	0	0
9/5/2024 10:50	66701	STRA_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/5/2024 10:50	45402	WBLO_T2	1	6	5	0.4	0.42	0.02	-1.05	-1.02	1	1	0	900	900	0
9/5/2024 10:51	55002	NEWP_T1	21	17	-4	0.6	0.78	0.18	-0.18	-0.21	0	0	0	0	0	0
9/5/2024 10:51	55001	NEWP_T1	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
9/5/2024 10:52	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 10:52	67605	WARW_T1	32	27	-5	0.58	0.59	0.01	-0.98	-0.94	0	0	0	0	0	0
9/5/2024 10:52	55101	WERT_T1	0	0	0	0	0	0	-2.66	-2.88	6	6	0	4800	4800	0
9/5/2024 10:52	67603	WARW_T1	2	3	1	0.35	0.63	0.28	0	0	0	0	0	0	0	0
9/5/2024 10:53	42201	SHEN_T2	0	0	0	0	0	0	0.59	0.54	0	0	0	0	0	0
9/5/2024 10:54	27503	WEIS_T2	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
9/5/2024 10:54	27502	WEIS_T2	0	2	2	0	0.1	0.1	-0.68	-0.55	0	0	0	0	0	0
9/5/2024 10:55	10504	CRAC_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
9/5/2024 10:55	64204	KINZ_T1	21	10	-11	0.29	0.39	0.1	0	0	0	0	0	0	0	0
9/5/2024 10:55	64201	KINZ_T1	0	0	0	0	0	0	-0.16	-0.13	4	4	0	2100	2100	0
9/5/2024 10:55	60301	TWVA_T2	0	0	0	0	0	0	-3.01	-2.95	2	2	0	1800	1800	0
9/5/2024 10:55	60101	COCA_T1	1	2	1	0.2	0.2	0	0.36	0.34	0	0	0	0	0	0
9/5/2024 10:55	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/5/2024 10:55	10503	CRAC_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 10:56	60101	COCA_T1	1	2	1	0.2	0.2	0	0.36	0.34	0	0	0	0	0	0
9/5/2024 10:56	14802	TREI_T2	0	10	10	0	0.26	0.26	0.57	0.63	0	0	0	0	0	0
9/5/2024 10:56	14801	TREI_T2	3	8	5	0.33	0.49	0.16	0	0	0	0	0	0	0	0
9/5/2024 10:57	67605	WARW_T1	32	27	-5	0.58	0.59	0.01	-0.98	-0.94	0	0	0	0	0	0
9/5/2024 10:57	67603	WARW_T1	2	3	1	0.35	0.63	0.28	0	0	0	0	0	0	0	0
9/5/2024 10:57	61505	EPET_T1	0	0	0	0	0	0	0.25	0.32	0	0	0	0	0	0
9/5/2024 10:57	53601	DALM_T2	1	1	0	0.5	0.3	-0.2	0.14	0.22	0	0	0	0	0	0
9/5/2024 10:58	23203	HIRU_T2	8	26	18	0.11	0.16	0.05	0.07	0.11	0	0	0	0	0	0
9/5/2024 10:58	23201	HIRU_T2	32	83	51	0.16	0.18	0.02	0	0	0	0	0	0	0	0
9/5/2024 10:58	23202	HIRU_T2	8	22	14	0.18	0.22	0.04	0	0	0	0	0	0	0	0
9/5/2024 10:59	63601	LETO_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
9/5/2024 10:59	63602	LETO_T1	0	5	5	0	0.56	0.56	-0.13	-0.13	0	0	0	0	0	0
9/5/2024 11:00	59202	THOM_T1	3	3	0	0.27	0.47	0.2	0	0	0	0	0	0	0	0
9/5/2024 11:00	59201	THOM_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/5/2024 11:00	63601	LETO_T1	3	3	0	0.3	0.3	0	0.36	0.35	2	2	0	2100	2100	0
9/5/2024 11:00	63602	LETO_T1	4	5	1	0.28	0.54	0.26	0	0	0	0	0	0	0	0
9/5/2024 11:01	23201	HIRU_T2	58	76	18	0.17	0.19	0.02	0	0	0	0	0	0	0	0
9/5/2024 11:01	63602	LETO_T1	4	5	1	0.28	0.54	0.26	-0.13	-0.13	0	0	0	0	0	0
9/5/2024 11:01	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 11:01	63601	LETO_T1	3	3	0	0.3	0.3	0	0.36	0.35	2	2	0	2100	2100	0
9/5/2024 11:01	11507	FREE_T2	0	0	0	0	0	0	0.78	0.9	0	0	0	0	0	0
9/5/2024 11:01	63804	HEMP_T1	1	1	0	7.1	6.3	-0.8	0.92	0.87	0	0	0	0	0	0
9/5/2024 11:01	23203	HIRU_T2	11	26	15	0.18	0.16	-0.02	0.07	0.11	0	0	0	0	0	0
9/5/2024 11:01	23202	HIRU_T2	15	21	6	0.22	0.22	0	0	0	0	0	0	0	0	0
9/5/2024 11:02	40101	HUNT_T2	0	1	1	0	0.3	0.3	-0.42	-0.43	0	0	0	0	0	0
9/5/2024 11:03	55002	NEWP_T1	16	20	4	0.66	0.69	0.03	-0.21	-0.16	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/5/2024 11:03	55001	NEWP_T1	1	2	1	0.1	0.35	0.25	-0.06	-0.04	0	0	0	0	0	0
9/5/2024 11:05	67401	WAKE_T2	4	5	1	0.45	0.44	-0.01	0	0	0	0	0	0	0	0
9/5/2024 11:05	67402	WAKE_T2	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
9/5/2024 11:05	55001	NEWP_T1	1	2	1	0.1	0.35	0.25	-0.06	-0.04	0	0	0	0	0	0
9/5/2024 11:05	55002	NEWP_T1	16	20	4	0.66	0.69	0.03	0	0	0	0	0	0	0	0
9/5/2024 11:06	65005	NEFF_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/5/2024 11:06	65001	NEFF_T2	0	0	0	0	0	0	-0.26	-0.31	1	1	0	1200	1200	0
9/5/2024 11:06	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 11:06	66902	SHIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/5/2024 11:06	66901	SHIL_T2	0	1	1	0	0.2	0.2	-1.32	-1.29	1	1	0	1200	1200	0
9/5/2024 11:06	66903	SHIL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
9/5/2024 11:07	55002	NEWP_T1	16	20	4	0.66	0.69	0.03	0	0	0	0	0	0	0	0
9/5/2024 11:07	55001	NEWP_T1	1	2	1	0.1	0.35	0.25	-0.04	-0.05	0	0	0	0	0	0
9/5/2024 11:08	42701	AUGU_T1	2	4	2	1.1	0.68	-0.42	0	0	2	2	0	1800	1800	0
9/5/2024 11:10	61501	EPET_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
9/5/2024 11:10	61504	EPET_T2	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
9/5/2024 11:10	44301	BEAV_T2	2	8	6	0.6	0.23	-0.37	0	0	0	0	0	0	0	0
9/5/2024 11:10	29202	APPE_T1	8	78	70	0.61	0.27	-0.34	0	0	0	0	0	0	0	0
9/5/2024 11:10	29201	APPE_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
9/5/2024 11:11	45402	WBLO_T2	3	7	4	0.63	0.4	-0.23	-1.02	-1.04	1	1	0	900	900	0
9/5/2024 11:11	13704	SOHN_T2	1	6	5	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
9/5/2024 11:11	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 11:11	13701	SOHN_T2	3	7	4	0.17	0.44	0.27	0.12	0.13	1	1	0	600	600	0
9/5/2024 11:11	41902	REED_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/5/2024 11:11	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 11:12	12202	FOGE_T2	0	2	2	0	0.5	0.5	0	0	1	1	0	600	600	0
9/5/2024 11:12	42701	AUGU_T1	2	4	2	1.1	0.68	-0.42	0	0	2	2	0	1800	1800	0
9/5/2024 11:13	11601	CEAL_T1	1	2	1	0.2	0.5	0.3	0	0	1	1	0	1200	1200	0
9/5/2024 11:14	50701	SMEC_T1	0	2	2	0	0.3	0.3	0.62	0.61	0	0	0	0	0	0
9/5/2024 11:15	64902	MILL_T2	0	0	0	0	0	0	-0.2	-0.12	0	0	0	0	0	0
9/5/2024 11:15	47203	FAXO_T2	0	0	0	0	0	0	-1.47	-1.47	1	1	0	1200	1200	0
9/5/2024 11:16	10901	COOP_T2	3	2	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/5/2024 11:16	22805	HAUT_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
9/5/2024 11:16	10903	COOP_T2	2	1	-1	0.95	1.4	0.45	0.35	0.29	1	1	0	600	600	0
9/5/2024 11:17	60902	DONG_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/5/2024 11:17	20601	GRWO_T2	1	3	2	0.1	0	-0.1	1.27	1.26	0	0	0	0	0	0
9/5/2024 11:17	63501	HEID_TBK1-2	47	35	-12	0.57	0.27	-0.3	0.5	0.55	1	1	0	900	900	0
9/5/2024 11:17	60901	DONG_T2	3	5	2	0.3	0.54	0.24	0	0	0	0	0	0	0	0
9/5/2024 11:17	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 11:17	60904	DONG_T2	1	2	1	0.3	0.65	0.35	0	0	0	0	0	0	0	0
9/5/2024 11:19	12601	MACA_T1	1	2	1	0.7	1	0.3	0	0	0	0	0	0	0	0
9/5/2024 11:19	12605	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 11:19	12602	MACA_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/5/2024 11:19	12604	MACA_T1	2	3	1	0.3	0.4	0.1	0.38	0.38	0	0	0	0	0	0
9/5/2024 11:20	67203	TEHI_T1	1	3	2	0.9	0.15	-0.75	0	0	0	0	0	0	0	0
9/5/2024 11:20	23001	SAJO_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
9/5/2024 11:20	23002	SAJO_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
9/5/2024 11:20	67201	TEHI_T1	0	4	4	0	1.03	1.03	1.07	0.66	1	2	1	900	1500	600
9/5/2024 11:21	42601	TUSC_T1	0	0	0	0	0	0	0.64	0.7	2	2	0	1800	1800	0
9/5/2024 11:21	42802	SELI_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
9/5/2024 11:22	56504	ROCK_T2	2	1	-1	0.45	0.7	0.25	0	0	0	0	0	0	0	0
9/5/2024 11:22	42802	SELI_T1	0	0	0	0	0	0	-1.88	-1.88	2	2	0	1800	1800	0
9/5/2024 11:22	56503	ROCK_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/5/2024 11:22	56501	ROCK_T2	3	4	1	0.53	0.38	-0.15	0.11	0.16	0	0	0	0	0	0
9/5/2024 11:23	42802	SELI_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
9/5/2024 11:24	42802	SELI_T1	0	0	0	0	0	0	-1.88	-1.88	2	2	0	1800	1800	0
9/5/2024 11:24	20401	ASHF_T2	2	8	6	0.5	0.34	-0.16	0	0	0	0	0	0	0	0
9/5/2024 11:24	20403	ASHF_T2	17	55	38	0.59	0.34	-0.25	1.25	1.26	0	0	0	0	0	0
9/5/2024 11:24	51304	WIND_T2	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
9/5/2024 11:24	51306	WIND_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/5/2024 11:24	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 11:25	15201	SFAR_T1	0	0	0	0	0	0	0.11	0.02	2	2	0	1800	1800	0
9/5/2024 11:25	42802	SELI_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
9/5/2024 11:26	15204	SFAR_T2	4	3	-1	0.55	0.8	0.25	0.09	0.11	0	0	0	0	0	0
9/5/2024 11:26	15203	SFAR_T2	26	15	-11	0.37	0.45	0.08	0	0	0	0	0	0	0	0
9/5/2024 11:28	11102	EGYP_T1	3	0	-3	0.77	0	-0.77	0	0	0	0	0	0	0	0
9/5/2024 11:28	11101	EGYP_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/5/2024 11:28	62601	ENGL_T1	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
9/5/2024 11:28	11104	EGYP_T1	0	0	0	0	0	0	0.72	0.71	0	0	0	0	0	0
9/5/2024 11:30	11101	EGYP_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/5/2024 11:30	11103	EGYP_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
9/5/2024 11:30	45702	LIND_T2	3	3	0	0.73	0.97	0.24	-0.43	-0.41	0	0	0	0	0	0
9/5/2024 11:30	45701	LIND_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/5/2024 11:30	11601	CEAL_T1	1	1	0	0.5	0.5	0	0	0	1	1	0	1200	1200	0
9/5/2024 11:30	11104	EGYP_T1	0	0	0	0	0	0	0.72	0.71	0	0	0	0	0	0
9/5/2024 11:30	11604	CEAL_T1	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
9/5/2024 11:30	11102	EGYP_T1	1	0	-1	1.9	0	-1.9	0	0	0	0	0	0	0	0
9/5/2024 11:31	11104	EGYP_T1	0	0	0	0	0	0	0.72	0.71	0	0	0	0	0	0
9/5/2024 11:31	11103	EGYP_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
9/5/2024 11:31	11102	EGYP_T1	1	0	-1	1.9	0	-1.9	0	0	0	0	0	0	0	0
9/5/2024 11:31	11101	EGYP_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/5/2024 11:32	45701	LIND_T2	1	1	0	0.2	0.1	-0.1	-1.5	-1.51	0	0	0	0	0	0
9/5/2024 11:32	45702	LIND_T2	3	3	0	0.73	0.97	0.24	0	0	0	0	0	0	0	0
9/5/2024 11:32	63302	GREE_T1	0	0	0	0	0	0	0.81	0.79	0	0	0	0	0	0
9/5/2024 11:33	45702	LIND_T2	3	3	0	0.73	0.97	0.24	-0.43	-0.41	0	0	0	0	0	0
9/5/2024 11:33	45701	LIND_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/5/2024 11:34	66302	MCGO_T2	355	377	22	0.33	0.44	0.11	-1.49	-1.59	1	1	0	600	600	0
9/5/2024 11:37	66703	STRA_T1	1	1	0	0.4	0.5	0.1	0.16	0.21	0	0	0	0	0	0
9/5/2024 11:37	66701	STRA_T1	2	2	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
9/5/2024 11:38	64204	KINZ_T1	3	6	3	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
9/5/2024 11:38	15001	BLMO_T1	4	5	1	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
9/5/2024 11:38	64201	KINZ_T1	0	0	0	0	0	0	-0.32	-0.19	4	4	0	2100	2100	0
9/5/2024 11:38	46302	ROHR_T1	5	4	-1	0.92	1.03	0.11	0	0	0	0	0	0	0	0
9/5/2024 11:38	46301	ROHR_T1	6	8	2	1.32	1.13	-0.19	0.18	0.18	0	0	0	0	0	0
9/5/2024 11:39	64204	KINZ_T1	3	6	3	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
9/5/2024 11:39	64202	KINZ_T1	0	0	0	0	0	0	1	1.08	0	0	0	0	0	0
9/5/2024 11:40	21501	CEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/5/2024 11:40	64204	KINZ_T1	3	6	3	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
9/5/2024 11:40	64201	KINZ_T1	0	0	0	0	0	0	-0.32	-0.19	4	4	0	2100	2100	0
9/5/2024 11:41	59201	THOM_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
9/5/2024 11:41	59202	THOM_T1	2	8	6	0.4	0.66	0.26	0	0	0	0	0	0	0	0
9/5/2024 11:42	23902	EFMO_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/5/2024 11:42	23901	EFMO_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/5/2024 11:44	22903	HARW_T1	0	0	0	0	0	0	0.37	0.32	0	0	0	0	0	0
9/5/2024 11:44	63501	HEID_TBK1-2	34	37	3	0.29	0.3	0.01	0.37	0.42	1	1	0	900	900	0
9/5/2024 11:44	22901	HARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/5/2024 11:45	63501	HEID_TBK1-2	29	50	21	0.31	0.46	0.15	0.37	0.42	1	1	0	900	900	0
9/5/2024 11:45	13503	MCMI_T2	15	22	7	0.53	0.61	0.08	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 11:46	28702	HAML_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
9/5/2024 11:46	13501	MCMI_T1	1	1	0	0.2	0.6	0.4	0.19	0.19	0	0	0	0	0	0
9/5/2024 11:46	13502	MCMI_T1	2	3	1	0.6	0.6	0	0	0	0	0	0	0	0	0
9/5/2024 11:46	28701	HAML_T2	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
9/5/2024 11:48	53501	EVIL_T2	5	1	-4	0.62	0.5	-0.12	-0.01	-0.01	2	2	0	1500	1500	0
9/5/2024 11:49	13002	NBET_T2	3	2	-1	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
9/5/2024 11:49	45902	AUBU_T1	3	4	1	0.87	0.78	-0.09	0.19	0.14	0	0	0	0	0	0
9/5/2024 11:49	65604	QVIL_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
9/5/2024 11:49	45901	AUBU_T1	45	41	-4	0.21	0.23	0.02	0	0	0	0	0	0	0	0
9/5/2024 11:49	46005	BERW_T1	1	2	1	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
9/5/2024 11:49	13105	NHAM_T2	0	1	1	0	0	0	-0.56	-0.56	1	1	0	1200	1200	0
9/5/2024 11:49	46001	BERW_T1	0	2	2	0	0.3	0.3	1.05	0.86	0	0	0	0	0	0
9/5/2024 11:49	13003	NBET_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/5/2024 11:49	13001	NBET_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
9/5/2024 11:49	13005	NBET_T2	0	0	0	0	0	0	1.25	1.04	0	0	0	0	0	0
9/5/2024 11:50	58402	MORO_T1	0	1	1	0	0.3	0.3	0	-0.01	2	2	0	1500	1500	0
9/5/2024 11:51	13005	NBET_T2	0	0	0	0	0	0	1.04	1	0	0	0	0	0	0
9/5/2024 11:51	13501	MCMI_T1	1	1	0	0.2	0.6	0.4	0.19	0.19	0	0	0	0	0	0
9/5/2024 11:51	59302	MCAL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 11:51	13502	MCMI_T1	2	3	1	0.6	0.6	0	0	0	0	0	0	0	0	0
9/5/2024 11:51	41902	REED_T1	1	1	0	0.5	0.7	0.2	1.2	1.21	0	0	0	0	0	0
9/5/2024 11:51	46002	BERW_T2	0	1	1	0	0.1	0.1	-0.6	-0.6	1	1	0	900	900	0
9/5/2024 11:51	59301	MCAL_T1	0	3	3	0	0.63	0.63	-1.33	-1.44	1	1	0	600	600	0
9/5/2024 11:51	13003	NBET_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/5/2024 11:51	41901	REED_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 11:51	13002	NBET_T2	3	2	-1	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
9/5/2024 11:51	13001	NBET_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
9/5/2024 11:51	46004	BERW_T2	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/5/2024 11:53	41902	REED_T1	1	1	0	0.5	0.7	0.2	1.2	1.21	0	0	0	0	0	0
9/5/2024 11:53	27502	WEIS_T2	2	1	-1	0.1	0.2	0.1	-0.28	-0.25	0	0	0	0	0	0
9/5/2024 11:53	66703	STRA_T1	1	1	0	0.5	0.5	0	0.21	0.3	0	0	0	0	0	0
9/5/2024 11:53	27503	WEIS_T2	4	2	-2	0.48	0.55	0.07	0	0	0	0	0	0	0	0
9/5/2024 11:53	66701	STRA_T1	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
9/5/2024 11:53	41901	REED_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 11:53	27504	WEIS_T1	0	0	0	0	0	0	-0.8	-0.7	0	0	0	0	0	0
9/5/2024 11:54	41902	REED_T1	1	1	0	0.5	0.7	0.2	1.2	1.21	0	0	0	0	0	0
9/5/2024 11:54	29401	BELT_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/5/2024 11:54	41901	REED_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 11:54	29402	BELT_T1	5	6	1	1.92	2.23	0.31	0	0	0	0	0	0	0	0
9/5/2024 11:55	57004	WHHI_T2	0	0	0	0	0	0	-0.2	-0.29	0	0	0	0	0	0
9/5/2024 11:55	29402	BELT_T1	5	6	1	1.92	2.23	0.31	0	0	0	0	0	0	0	0
9/5/2024 11:55	57003	WHHI_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/5/2024 11:55	29401	BELT_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/5/2024 11:58	67502	WEWI_T2	4	3	-1	0.48	0.93	0.45	-0.12	-0.16	0	0	0	0	0	0
9/5/2024 11:58	67503	WEWI_T2	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0	0
9/5/2024 11:58	45802	HEGI_T2	0	43	43	0	0.88	0.88	0.56	0.51	2	2	0	1200	1200	0
9/5/2024 11:58	15001	BLMO_T1	5	5	0	0.28	0.4	0.12	0	0	0	0	0	0	0	0
9/5/2024 11:59	45802	HEGI_T2	0	43	43	0	0.88	0.88	0.56	0.51	2	2	0	1200	1200	0
9/5/2024 11:59	67503	WEWI_T2	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0	0
9/5/2024 11:59	51603	DUKE_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
9/5/2024 11:59	67502	WEWI_T2	4	3	-1	0.48	0.93	0.45	-0.12	-0.16	0	0	0	0	0	0
9/5/2024 12:00	67503	WEWI_T2	1	1	0	8.4	8.2	-0.2	0.04	0.04	0	0	0	0	0	0
9/5/2024 12:00	67502	WEWI_T2	3	4	1	0.83	0.63	-0.2	0	0	0	0	0	0	0	0
9/5/2024 12:00	47202	FAXO_T2	0	1	1	0	0	0	-0.8	-0.78	0	0	0	0	0	0
9/5/2024 12:01	42903	MIDD_T2	0	3	3	0	0.43	0.43	0.86	0.08	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/5/2024 12:01	42902	MIDD_T2	1	4	3	0.7	0.38	-0.32	-0.1	-0.22	1	1	0	600	600	0
9/5/2024 12:02	42902	MIDD_T2	1	4	3	0.7	0.38	-0.32	-0.1	-0.22	1	1	0	600	600	0
9/5/2024 12:02	42903	MIDD_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
9/5/2024 12:03	13003	NBET_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/5/2024 12:03	64704	LITI_T1	0	0	0	0	0	0	0.22	0.28	1	1	0	600	600	0
9/5/2024 12:03	13002	NBET_T2	2	3	1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
9/5/2024 12:03	13001	NBET_T2	2	1	-1	0.25	0.3	0.05	-0.63	-0.63	1	1	0	1200	1200	0
9/5/2024 12:04	57403	SPAN_T1	7	7	0	0.26	0.19	-0.07	0	0	0	0	0	0	0	0
9/5/2024 12:04	57401	SPAN_T1	2	2	0	0.95	1.25	0.3	-0.15	-0.19	1	1	0	600	600	0
9/5/2024 12:04	42902	MIDD_T2	1	4	3	0.7	0.38	-0.32	-0.1	-0.22	1	1	0	600	600	0
9/5/2024 12:04	42903	MIDD_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
9/5/2024 12:05	57403	SPAN_T1	7	7	0	0.26	0.19	-0.07	0.12	0.11	0	0	0	0	0	0
9/5/2024 12:05	57401	SPAN_T1	2	2	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
9/5/2024 12:06	66302	MCGO_T2	346	406	60	0.37	0.58	0.21	-1.76	-1.69	1	1	0	600	600	0
9/5/2024 12:06	57401	SPAN_T1	2	2	0	0.95	1.25	0.3	-0.15	-0.19	1	1	0	600	600	0
9/5/2024 12:06	57403	SPAN_T1	7	7	0	0.26	0.19	-0.07	0	0	0	0	0	0	0	0
9/5/2024 12:08	57401	SPAN_T1	2	2	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
9/5/2024 12:08	15001	BLMO_T1	5	7	2	0.4	0.39	-0.01	0	0	0	0	0	0	0	0
9/5/2024 12:08	57403	SPAN_T1	7	7	0	0.26	0.19	-0.07	0.11	0.12	0	0	0	0	0	0
9/5/2024 12:09	57403	SPAN_T1	7	7	0	0.26	0.19	-0.07	0	0	0	0	0	0	0	0
9/5/2024 12:09	13701	SCHN_T2	5	7	2	0.34	0.34	0	0	0	0	0	0	0	0	0
9/5/2024 12:09	57401	SPAN_T1	2	2	0	0.95	1.25	0.3	-0.19	-0.18	1	1	0	600	600	0
9/5/2024 12:09	13704	SCHN_T2	3	2	-1	0.3	0.5	0.2	0.04	0.13	0	0	0	0	0	0
9/5/2024 12:09	15001	BLMO_T1	5	7	2	0.4	0.39	-0.01	0	0	0	0	0	0	0	0
9/5/2024 12:11	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 12:12	61501	EPET_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
9/5/2024 12:12	22901	HARW_T1	1	1	0	0.3	0.7	0.4	-0.2	-0.21	1	1	0	1200	1200	0
9/5/2024 12:12	61506	EPET_T2	0	0	0	0	0	0	-1.35	-1.28	2	2	0	1800	1800	0
9/5/2024 12:13	45802	HEGI_T2	28	43	15	0.53	0.88	0.35	0.51	0.64	2	1	-1	1200	900	-300
9/5/2024 12:15	22901	HARW_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/5/2024 12:15	22905	HARW_T1	0	0	0	0	0	0	-0.69	-0.66	0	0	0	0	0	0
9/5/2024 12:16	23403	HONE_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/5/2024 12:17	13003	NBET_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/5/2024 12:17	13002	NBET_T2	1	3	2	0.6	0.3	-0.3	-1.46	-1.3	2	2	0	2400	2400	0
9/5/2024 12:17	13001	NBET_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/5/2024 12:18	67703	WERN_T2	1	1	0	0.3	0.5	0.2	-0.07	-0.03	1	1	0	900	900	0
9/5/2024 12:18	67702	WERN_T2	2	4	2	0.45	0.45	0	0	0	0	0	0	0	0	0
9/5/2024 12:19	53501	EVIL_T2	0	3	3	0	0.4	0.4	-0.01	-0.01	2	2	0	1500	1500	0
9/5/2024 12:20	42902	MIDD_T2	4	3	-1	0.33	0.4	0.07	-0.22	-0.26	1	1	0	600	600	0
9/5/2024 12:20	42903	MIDD_T2	3	2	-1	0.43	0.45	0.02	0	0	0	0	0	0	0	0
9/5/2024 12:20	24801	VALM_T1	1	1	0	0.4	0.3	-0.1	-0.27	-0.25	0	0	0	0	0	0
9/5/2024 12:20	53501	EVIL_T2	0	3	3	0	0.4	0.4	-0.02	-0.02	6	6	0	4500	4500	0
9/5/2024 12:21	58402	MORO_T1	1	2	1	0.3	0.35	0.05	-0.06	-0.08	2	2	0	1500	1500	0
9/5/2024 12:21	53501	EVIL_T2	0	3	3	0	0.4	0.4	-0.01	-0.01	2	2	0	1500	1500	0
9/5/2024 12:24	55105	WERT_T1	0	0	0	0	0	0	-0.26	-0.25	1	1	0	900	900	0
9/5/2024 12:24	15001	BLMO_T1	5	7	2	0.34	0.59	0.25	0	0	0	0	0	0	0	0
9/5/2024 12:25	54206	PENN_T2	1	0	-1	0.2	0	-0.2	0.38	0.36	0	0	0	0	0	0
9/5/2024 12:26	54206	PENN_T2	1	0	-1	0.2	0	-0.2	0.38	0.36	0	0	0	0	0	0
9/5/2024 12:27	45901	AUBU_T1	19	23	4	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
9/5/2024 12:27	45902	AUBU_T1	4	4	0	0.7	0.85	0.15	0.21	0.15	0	0	0	0	0	0
9/5/2024 12:28	61801	EELI_T2	1	0	-1	5	0	-5	0	0	0	0	0	0	0	0
9/5/2024 12:28	61803	EELI_T2	0	0	0	0	0	0	0.56	0.61	1	1	0	600	600	0
9/5/2024 12:29	41002	LAUR_T2	1	1	0	1.9	1.9	0	0.1	0.09	0	0	0	0	0	0
9/5/2024 12:29	41001	LAUR_T2	2	2	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
9/5/2024 12:29	40101	HUNT_T2	0	1	1	0	0.2	0.2	-0.34	-0.31	0	0	0	0	0	0
9/5/2024 12:30	41305	FISH_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
9/5/2024 12:30	41301	FISH_T1	5	0	-5	1.38	1.38	0	0	0	0	0	0	0	0	0
9/5/2024 12:30	23403	HONE_T1	1	0	-1	0.1	0	-0.1	-0.59	-0.55	0	0	0	0	0	0
9/5/2024 12:31	55507	HERS_T1	0	0	0	0	0	0	0.85	0.9	0	0	0	0	0	0
9/5/2024 12:31	40101	HUNT_T2	1	1	0	0.1	0.2	0.1	-0.34	-0.31	0	0	0	0	0	0
9/5/2024 12:32	50506	MECH_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
9/5/2024 12:32	40901	JESH_T1	1	0	-1	1.4	1.2	-0.2	0.41	0.47	0	0	0	0	0	0
9/5/2024 12:32	50501	MECH_T1	4	4	0	0.43	0.45	0.02	0	0	0	0	0	0	0	0
9/5/2024 12:32	50502	MECH_T1	1	1	0	2.2	2.3	0.1	-0.17	-0.16	1	1	0	1200	1200	0
9/5/2024 12:34	13002	NBET_T2	3	1	-2	0.3	0.3	0	-2.6	-2.66	4	4	0	4800	4800	0
9/5/2024 12:34	13001	NBET_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/5/2024 12:34	13003	NBET_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/5/2024 12:35	13001	NBET_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/5/2024 12:35	64902	MILL_T2	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
9/5/2024 12:35	57205	ROSS_T1	3	2	-1	0.37	0.5	0.13	0.42	0.4	0	0	0	0	0	0
9/5/2024 12:35	13003	NBET_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/5/2024 12:35	13002	NBET_T2	3	1	-2	0.3	0.3	0	-1.3	-1.33	2	2	0	2400	2400	0
9/5/2024 12:37	55405	SHER_T1	4	5	1	0.13	0.1	-0.03	-0.17	-0.17	0	0	0	0	0	0
9/5/2024 12:38	14601	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 12:38	14605	SWHI_T1	0	0	0	0	0	0	1.55	1.53	1	1	0	1200	1200	0
9/5/2024 12:38	65702	RVIL_T2	1	1	0	7	0.3	-6.7	-0.71	-0.66	1	1	0	600	600	0
9/5/2024 12:38	14603	SWHI_T1	3	4	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
9/5/2024 12:38	58201	NEWV_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/5/2024 12:38	58202	NEWV_T1	0	0	0	0	0	0	0.47	0.79	0	0	0	0	0	0
9/5/2024 12:38	49804	UNIV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 12:38	49803	UNIV_T1	1	1	0	5.8	5.9	0.1	-0.88	-0.89	0	0	0	0	0	0
9/5/2024 12:40	15001	BLMO_T1	7	8	1	0.39	0.6	0.21	0	0	0	0	0	0	0	0
9/5/2024 12:40	14204	EALL_T2	3	3	0	0.5	0.33	-0.17	0.4	0.48	0	0	0	0	0	0
9/5/2024 12:44	47901	HRDG_T1	0	0	0	0	0	0	2.02	2.08	0	0	0	0	0	0
9/5/2024 12:45	52403	GRPA_T2	90	45	-45	0.85	0.57	-0.28	0	0	0	0	0	0	0	0
9/5/2024 12:45	52402	GRPA_T2	12	11	-1	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
9/5/2024 12:45	52401	GRPA_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
9/5/2024 12:46	12701	MACU_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
9/5/2024 12:46	11303	EMMA_T1	2	2	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
9/5/2024 12:46	11301	EMMA_T1	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
9/5/2024 12:46	11302	EMMA_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/5/2024 12:47	12701	MACU_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
9/5/2024 12:47	63601	LETO_T1	5	4	-1	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
9/5/2024 12:47	63602	LETO_T1	4	4	0	0.4	0.43	0.03	0.03	-0.01	0	0	0	0	0	0
9/5/2024 12:48	63601	LETO_T1	5	4	-1	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
9/5/2024 12:48	63602	LETO_T1	4	4	0	0.4	0.43	0.03	0.03	-0.01	0	0	0	0	0	0
9/5/2024 12:49	52402	GRPA_T2	12	11	-1	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
9/5/2024 12:49	52403	GRPA_T2	90	45	-45	0.85	0.57	-0.28	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 12:51	43105	SMIL_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
9/5/2024 12:51	43102	SMIL_T2	3	4	1	0.5	0.37	-0.13	-0.61	-0.61	1	1	0	600	600	0
9/5/2024 12:51	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 12:51	43103	SMIL_T2	17	21	4	0.56	0.45	-0.11	0	0	0	0	0	0	0	0
9/5/2024 12:51	43104	SMIL_T2	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
9/5/2024 12:51	43101	SMIL_T2	1	1	0	1.5	1.3	-0.2	-0.55	-0.53	0	0	0	0	0	0
9/5/2024 12:52	67402	WAKE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/5/2024 12:52	67401	WAKE_T2	4	5	1	0.65	0.48	-0.17	-0.92	-0.87	0	0	0	0	0	0
9/5/2024 12:53	55105	WERT_T1	0	0	0	0	0	0	-0.22	-0.19	1	1	0	900	900	0
9/5/2024 12:55	67402	WAKE_T2	1	0	-1	0.2	0	-0.2	-0.21	-0.21	1	1	0	600	600	0
9/5/2024 12:55	45602	WOOL_T1	2	4	2	0.15	0.38	0.23	0	0	0	0	0	0	0	0
9/5/2024 12:55	43101	SMIL_T2	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
9/5/2024 12:55	43105	SMIL_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
9/5/2024 12:55	45601	WOOL_T1	0	0	0	0	0	0	-0.13	-0.1	1	1	0	1200	1200	0
9/5/2024 12:55	43104	SMIL_T2	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
9/5/2024 12:55	67401	WAKE_T2	4	5	1	0.65	0.48	-0.17	0	0	0	0	0	0	0	0
9/5/2024 12:55	43102	SMIL_T2	3	4	1	0.5	0.37	-0.13	-0.61	-0.61	1	1	0	600	600	0
9/5/2024 12:55	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 12:55	43103	SMIL_T2	17	21	4	0.56	0.45	-0.11	0	0	0	0	0	0	0	0
9/5/2024 12:56	29402	BELT_T1	6	7	1	1.52	1.43	-0.09	0	0	0	0	0	0	0	0
9/5/2024 12:56	45402	WILO_T2	3	8	5	0.37	0.45	0.08	-0.99	-0.99	1	1	0	900	900	0
9/5/2024 12:56	29401	BELT_T1	1	4	3	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/5/2024 12:56	15001	BLMO_T1	6	8	2	0.63	0.41	-0.22	0	0	0	0	0	0	0	0
9/5/2024 13:00	63804	HEMP_T1	1	1	0	6.6	6.9	0.3	-0.33	-0.35	0	0	0	0	0	0
9/5/2024 13:00	40101	HUNT_T2	0	1	1	0	0	0	-0.23	-0.22	0	0	0	0	0	0
9/5/2024 13:00	63801	HEMP_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/5/2024 13:00	24501	GOUL_T2	4	5	1	0.6	0.46	-0.14	0.09	0.08	0	0	0	0	0	0
9/5/2024 13:04	64101	REFR_T1	2	2	0	0.2	0.3	0.1	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 13:05	66903	SHIL_T2	1	1	0	1.3	1.2	-0.1	-0.7	-0.69	0	0	0	0	0	0
9/5/2024 13:05	66902	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 13:07	57403	SPAN_T1	3	3	0	0.27	0.23	-0.04	0.13	0.13	0	0	0	0	0	0
9/5/2024 13:07	57401	SPAN_T1	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/5/2024 13:08	21704	SUBU_T1	0	0	0	0	0	0	-2.07	-2.07	2	2	0	2400	2400	0
9/5/2024 13:08	66903	SHIL_T2	1	1	0	1.3	1.2	-0.1	-0.69	-0.69	0	0	0	0	0	0
9/5/2024 13:08	66902	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 13:08	21705	SUBU_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
9/5/2024 13:08	21701	SUBU_T1	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
9/5/2024 13:09	57403	SPAN_T1	3	3	0	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
9/5/2024 13:09	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 13:09	57401	SPAN_T1	2	2	0	0.8	0.8	0	0.13	0.1	1	1	0	600	600	0
9/5/2024 13:10	15702	TANN_T2	6	5	-1	0.62	0.72	0.1	-0.17	-0.12	0	0	0	0	0	0
9/5/2024 13:10	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/5/2024 13:10	28303	NEWF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 13:10	57403	SPAN_T1	3	3	0	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
9/5/2024 13:10	57401	SPAN_T1	2	2	0	0.8	0.8	0	0.13	0.1	1	1	0	600	600	0
9/5/2024 13:11	46401	FLEM_T2	6	6	0	0.9	1.02	0.12	0	0	0	0	0	0	0	0
9/5/2024 13:11	46402	FLEM_T2	3	2	-1	0.3	0.4	0.1	0.19	0.2	0	0	0	0	0	0
9/5/2024 13:12	46402	FLEM_T2	3	2	-1	0.3	0.4	0.1	0.19	0.2	0	0	0	0	0	0
9/5/2024 13:12	24702	FLND_T2	2	2	0	0.4	0.65	0.25	0	0	1	1	0	1200	1200	0
9/5/2024 13:12	46401	FLEM_T2	6	6	0	0.9	1.02	0.12	-0.24	-0.21	0	0	0	0	0	0
9/5/2024 13:13	47001	HUGH_T2	4	5	1	5.3	4.46	-0.84	0.04	0.06	0	0	0	0	0	0
9/5/2024 13:13	40101	HUNT_T2	0	1	1	0	0	0	-0.22	-0.23	0	0	0	0	0	0
9/5/2024 13:16	47001	HUGH_T2	5	5	0	4.42	4.38	-0.04	0.04	0.06	0	0	0	0	0	0
9/5/2024 13:16	41002	LAUR_T2	1	1	0	1.5	1.6	0.1	0.11	0.1	0	0	0	0	0	0
9/5/2024 13:16	41001	LAUR_T2	2	2	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
9/5/2024 13:16	40101	HUNT_T2	1	1	0	0.2	0	-0.2	-0.22	-0.23	0	0	0	0	0	0
9/5/2024 13:17	64101	REFR_T1	2	1	-1	0.2	0.3	0.1	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 13:17	67505	WEWI_T1	0	1	1	0	0.1	0.1	0.16	0.11	1	1	0	900	900	0
9/5/2024 13:17	40101	HUNT_T2	1	1	0	0.2	0	-0.2	-0.22	-0.23	0	0	0	0	0	0
9/5/2024 13:17	67501	WEWI_T1	4	2	-2	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/5/2024 13:18	40902	JESH_T1	0	1	1	0	0.1	0.1	-1.31	-1.81	2	2	0	1200	1200	0
9/5/2024 13:18	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 13:18	16203	POFA_T2	8	8	0	0.34	0.43	0.09	0	0	0	0	0	0	0	0
9/5/2024 13:18	40901	JESH_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
9/5/2024 13:20	16202	POFA_T1	3	3	0	0.3	0.33	0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/5/2024 13:20	16204	POFA_T1	4	4	0	0.33	0.35	0.02	0	0	0	0	0	0	0	0
9/5/2024 13:20	64101	REFR_T1	2	1	-1	0.2	0.3	0.1	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 13:20	16203	POFA_T2	8	8	0	0.34	0.43	0.09	0	0	0	0	0	0	0	0
9/5/2024 13:22	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 13:22	16203	POFA_T2	8	8	0	0.34	0.43	0.09	0	0	0	0	0	0	0	0
9/5/2024 13:27	44802	EDAN_T2	1	1	0	0.1	0.1	0	-0.49	-0.53	0	0	0	0	0	0
9/5/2024 13:27	44801	EDAN_T2	136	134	-2	0.56	0.58	0.02	0	0	0	0	0	0	0	0
9/5/2024 13:29	40101	HUNT_T2	1	1	0	0.2	0	-0.2	-0.23	-0.27	0	0	0	0	0	0
9/5/2024 13:30	44801	EDAN_T2	132	132	0	0.53	0.58	0.05	-1.45	-1.46	0	0	0	0	0	0
9/5/2024 13:30	63602	LETO_T1	2	3	1	0.6	0.6	0	0.04	0.06	0	0	0	0	0	0
9/5/2024 13:30	44802	EDAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/5/2024 13:30	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 13:32	41001	LAUR_T2	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
9/5/2024 13:32	40101	HUNT_T2	0	1	1	0	0	0	-0.23	-0.27	0	0	0	0	0	0
9/5/2024 13:32	41002	LAUR_T2	1	1	0	1.3	1.6	0.3	0.1	0.1	0	0	0	0	0	0
9/5/2024 13:33	64101	REFR_T1	1	1	0	0.3	0.1	-0.2	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 13:34	16203	POFA_T2	7	7	0	0.44	0.36	-0.08	0	0	0	0	0	0	0	0
9/5/2024 13:34	44201	POIN_T1	0	0	0	0	0	0	-0.44	-0.49	2	2	0	2100	2100	0
9/5/2024 13:38	44904	SCOT_T1	0	0	0	0	0	0	0.93	1.05	0	0	0	0	0	0
9/5/2024 13:40	55105	WERT_T1	0	0	0	0	0	0	-0.19	-0.18	1	1	0	900	900	0
9/5/2024 13:43	53902	HALI_T2	3	8	5	2.1	1.38	-0.72	0	0	0	0	0	0	0	0
9/5/2024 13:43	53901	HALI_T2	6	12	6	0.6	0.62	0.02	-1.1	-1.08	0	0	0	0	0	0
9/5/2024 13:43	44801	EDAN_T2	132	132	0	0.53	0.58	0.05	-1.46	-1.43	0	0	0	0	0	0
9/5/2024 13:43	53903	HALI_T2	5	10	5	0.56	0.69	0.13	0	0	0	0	0	0	0	0
9/5/2024 13:43	44802	EDAN_T2	1	1	0	0.1	0.1	0	-0.53	-0.51	0	0	0	0	0	0
9/5/2024 13:43	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
9/5/2024 13:44	44802	EDAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/5/2024 13:44	53501	EVIL_T2	2	0	-2	0.35	0	-0.35	-0.01	-0.01	2	2	0	1500	1500	0
9/5/2024 13:44	53901	HALI_T2	6	12	6	0.6	0.62	0.02	-3.3	-3.24	0	0	0	0	0	0
9/5/2024 13:44	53902	HALI_T2	3	8	5	2.1	1.38	-0.72	0	0	0	0	0	0	0	0
9/5/2024 13:44	44801	EDAN_T2	132	132	0	0.53	0.58	0.05	-1.46	-1.43	0	0	0	0	0	0
9/5/2024 13:44	53903	HALI_T2	5	10	5	0.56	0.69	0.13	-0.05	-0.04	0	0	0	0	0	0
9/5/2024 13:45	53902	HALI_T2	7	7	0	1.49	1.5	0.01	0	0	0	0	0	0	0	0
9/5/2024 13:45	53903	HALI_T2	7	10	3	0.77	0.73	-0.04	0	0	0	0	0	0	0	0
9/5/2024 13:45	53901	HALI_T2	12	7	-5	0.62	0.67	0.05	-2.2	-2.16	0	0	0	0	0	0
9/5/2024 13:45	53501	EVIL_T2	0	3	3	0	0.1	0.1	-0.01	-0.01	2	2	0	1500	1500	0
9/5/2024 13:45	55101	WERT_T1	0	0	0	0	0	0	-1.07	-1.04	3	3	0	2400	2400	0
9/5/2024 13:46	44802	EDAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/5/2024 13:46	53901	HALI_T2	12	7	-5	0.62	0.67	0.05	-2.2	-2.16	0	0	0	0	0	0
9/5/2024 13:46	53903	HALI_T2	7	10	3	0.77	0.73	-0.04	0	0	0	0	0	0	0	0
9/5/2024 13:46	53902	HALI_T2	7	7	0	1.49	1.5	0.01	-0.74	-0.71	0	0	0	0	0	0
9/5/2024 13:46	44801	EDAN_T2	130	141	11	0.57	0.59	0.02	-1.46	-1.43	0	0	0	0	0	0
9/5/2024 13:47	53901	HALI_T2	12	7	-5	0.62	0.67	0.05	-2.2	-2.16	0	0	0	0	0	0
9/5/2024 13:47	53903	HALI_T2	7	10	3	0.77	0.73	-0.04	0	0	0	0	0	0	0	0
9/5/2024 13:47	53902	HALI_T2	7	7	0	1.49	1.5	0.01	0	0	0	0	0	0	0	0
9/5/2024 13:48	64302	LINC_T2	0	0	0	0	0	0	1.41	1.44	0	0	0	0	0	0
9/5/2024 13:49	52501	PROG_T1	2	2	0	0.3	0.3	0	-0.08	-0.09	1	1	0	300	300	0
9/5/2024 13:49	51202	MTON_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/5/2024 13:49	52502	PROG_T2	5	5	0	0.5	0.28	-0.22	-0.89	-0.87	2	2	0	1800	1800	0
9/5/2024 13:49	52402	GRPA_T2	7	6	-1	0.26	0.32	0.06	0	0	0	0	0	0	0	0
9/5/2024 13:49	52403	GRPA_T2	51	53	2	0.62	0.66	0.04	0.07	0.09	0	0	0	0	0	0
9/5/2024 13:49	51204	MTON_T2	0	0	0	0	0	0	-1.24	-1.23	2	2	0	1500	1500	0
9/5/2024 13:51	24201	PROV_T3	3	2	-1	2.53	4.1	1.57	-2.25	-2.18	2	2	0	2400	2400	0
9/5/2024 13:51	24204	PROV_T3	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
9/5/2024 13:51	48301	ORWI_T1	2	2	0	2.9	3.1	0.2	-0.08	0.08	1	1	0	900	900	0
9/5/2024 13:52	24204	PROV_T3	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
9/5/2024 13:52	24201	PROV_T3	3	2	-1	2.53	4.1	1.57	-1.09	-1.09	1	1	0	1200	1200	0
9/5/2024 13:55	55101	WERT_T1	0	0	0	0	0	0	-1.04	-1.08	3	3	0	2400	2400	0
9/5/2024 13:55	53903	HALI_T2	7	10	3	0.77	0.73	-0.04	0	0	0	0	0	0	0	0
9/5/2024 13:55	53902	HALI_T2	7	7	0	1.49	1.5	0.01	0	0	0	0	0	0	0	0
9/5/2024 13:55	53901	HALI_T2	12	7	-5	0.62	0.67	0.05	-1.08	-1.06	0	0	0	0	0	0
9/5/2024 13:56	57403	SPAN_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
9/5/2024 13:56	57401	SPAN_T1	2	2	0	0.5	0.6	0.1	0.15	0.15	1	1	0	600	600	0
9/5/2024 14:02	41204	KENM_T2	0	0	0	0	0	0	0.51	0.59	0	0	0	0	0	0
9/5/2024 14:03	48301	ORWI_T1	2	2	0	3.1	3.05	-0.05	-0.16	0.15	2	2	0	1800	1800	0
9/5/2024 14:03	47101	MARL_T1	2	1	-1	0.25	0.1	-0.15	-0.07	-0.08	0	0	0	0	0	0
9/5/2024 14:03	44201	POIN_T1	0	1	1	0	0.1	0.1	-0.51	-1.01	2	2	0	2100	2100	0
9/5/2024 14:03	47104	MARL_T1	0	0	0	0	0	0	-0.65	-0.62	0	0	0	0	0	0
9/5/2024 14:05	53501	EVIL_T2	0	3	3	0	0.1	0.1	-0.01	-0.01	2	1	-1	1500	600	-900
9/5/2024 14:06	53902	HALI_T2	7	6	-1	1.5	1.55	0.05	0	0	0	0	0	0	0	0
9/5/2024 14:06	53903	HALI_T2	10	8	-2	0.69	0.84	0.15	0	0	0	0	0	0	0	0
9/5/2024 14:06	53901	HALI_T2	7	6	-1	0.67	0.62	-0.05	-1.08	-1.06	0	0	0	0	0	0
9/5/2024 14:08	41902	REED_T1	1	1	0	0.7	0.7	0	1.23	1.19	0	0	0	0	0	0
9/5/2024 14:08	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 14:09	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 14:09	41902	REED_T1	1	1	0	0.7	0.7	0	1.23	1.19	0	0	0	0	0	0
9/5/2024 14:10	66502	SMAN_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
9/5/2024 14:10	41902	REED_T1	1	1	0	0.7	0.7	0	1.23	1.19	0	0	0	0	0	0
9/5/2024 14:10	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 14:10	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 14:10	66501	SMAN_T2	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/5/2024 14:11	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 14:12	44801	EDAN_T2	120	140	20	0.57	0.57	0	-1.43	-1.42	0	0	0	0	0	0
9/5/2024 14:15	63403	HONY_T2	0	0	0	0	0	0	0.28	0.23	1	1	0	600	600	0
9/5/2024 14:17	63602	LETO_T1	2	2	0	0.2	0.55	0.35	-0.03	0.1	0	0	0	0	0	0
9/5/2024 14:17	47502	NECO_T1	4	4	0	0.43	0.48	0.05	1.01	0.98	0	0	0	0	0	0
9/5/2024 14:18	15603	NSTR_T2	23	12	-11	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
9/5/2024 14:18	15601	NSTR_T2	5	4	-1	0.72	1.13	0.41	0	0	0	0	0	0	0	0
9/5/2024 14:18	15602	NSTR_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
9/5/2024 14:19	46506	LOHA_T1	3	3	0	3.87	4.5	0.63	-0.06	-0.05	0	0	0	0	0	0
9/5/2024 14:19	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 14:19	24105	EHAZ_T1	4	4	0	6.88	6.65	-0.23	0	0	0	0	0	0	0	0
9/5/2024 14:19	24101	EHAZ_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
9/5/2024 14:19	24102	EHAZ_T1	0	1	1	0	0	0	0.54	0.45	0	0	0	0	0	0
9/5/2024 14:20	64101	REFR_T1	0	5	5	0	0.62	0.62	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 14:20	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 14:20	42902	MIDD_T2	0	1	1	0	0.2	0.2	-0.09	-0.08	1	1	0	600	600	0
9/5/2024 14:21	51202	MTON_T2	1	0	-1	0.5	0	-0.5	-1.94	-1.9	2	2	0	2400	2400	0
9/5/2024 14:23	49804	UNIV_T1	0	0	0	0	0	0	1.59	1.41	0	0	0	0	0	0
9/5/2024 14:23	49803	UNIV_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
9/5/2024 14:24	44301	BEAV_T2	4	6	2	0.48	0.45	-0.03	0.58	0.47	1	1	0	600	600	0
9/5/2024 14:25	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/5/2024 14:25	41903	REED_T1	0	0	0	0	0	0	0.47	0.57	2	2	0	2400	2400	0
9/5/2024 14:25	41902	REED_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
9/5/2024 14:25	67803	WLAN_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
9/5/2024 14:25	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/5/2024 14:26	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 14:26	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/5/2024 14:26	66501	SMAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/5/2024 14:26	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 14:26	43402	BENT_T1	13	24	11	0.57	0.38	-0.19	-0.39	-0.38	1	1	0	600	600	0
9/5/2024 14:27	11202	ELHE_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
9/5/2024 14:27	51304	WIND_T2	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
9/5/2024 14:28	42701	AUGU_T1	3	2	-1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
9/5/2024 14:28	40802	EXCH_T2	1	1	0	1.3	1.2	-0.1	0.03	0.07	0	0	0	0	0	0
9/5/2024 14:28	40801	EXCH_T2	2	2	0	0.3	0.2	-0.1	-0.24	-0.23	1	1	0	1200	1200	0
9/5/2024 14:29	50107	HARR_T3	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
9/5/2024 14:29	50105	HARR_T3	6	6	0	7.03	7.08	0.05	0	0	0	0	0	0	0	0
9/5/2024 14:29	40101	HUNT_T2	1	1	0	0	0.1	0.1	-0.27	-0.22	0	0	0	0	0	0
9/5/2024 14:29	50201	HARR_T3	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 14:41	45602	WOOL_T1	2	3	1	0.2	0.27	0.07	0.83	0.84	0	0	0	0	0	0
9/5/2024 14:42	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 14:42	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 14:42	42802	SELI_T1	0	0	0	0	0	0	-0.86	-0.84	1	1	0	900	900	0
9/5/2024 14:42	10805	CHHI_T2	1	1	0	8.2	7.8	-0.4	-2.11	-1.93	2	2	0	2400	2400	0
9/5/2024 14:43	23901	EFMO_T2	1	1	0	0.1	0.2	0.1	0.18	0.17	0	0	0	0	0	0
9/5/2024 14:44	46506	LOHA_T1	3	3	0	4.43	4.7	0.27	0	0	0	0	0	0	0	0
9/5/2024 14:44	10805	CHHI_T2	1	1	0	8.2	7.8	-0.4	-1.06	-0.97	1	1	0	1200	1200	0
9/5/2024 14:44	46501	LOHA_T1	1	1	0	1.3	0	-1.3	0.38	0.4	1	1	0	1200	1200	0
9/5/2024 14:46	46402	FLEM_T2	1	4	3	0.7	0.28	-0.42	0	0	0	0	0	0	0	0
9/5/2024 14:46	46401	FLEM_T2	5	13	8	0.78	0.54	-0.24	-0.21	-0.18	0	0	0	0	0	0
9/5/2024 14:47	46506	LOHA_T1	3	3	0	4.5	4.77	0.27	0	0	0	0	0	0	0	0
9/5/2024 14:47	46503	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 14:47	46501	LOHA_T1	0	1	1	0	0	0	0.38	0.4	1	1	0	1200	1200	0
9/5/2024 14:48	12401	MILF_T1	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/5/2024 14:48	46506	LOHA_T1	3	3	0	4.5	4.77	0.27	0	0	0	0	0	0	0	0
9/5/2024 14:48	12402	MILF_T1	1	5	4	0.5	0.1	-0.4	1.09	1.11	0	0	0	0	0	0
9/5/2024 14:48	63501	HEID_TBK1-2	47	47	0	0.83	1.01	0.18	0.56	0.55	1	1	0	900	900	0
9/5/2024 14:48	46501	LOHA_T1	0	1	1	0	0	0	0.38	0.4	1	1	0	1200	1200	0
9/5/2024 14:48	46503	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 14:48	12403	MILF_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
9/5/2024 14:49	42903	MIDD_T2	1	2	1	0.1	0.35	0.25	0.54	0.81	1	1	0	1200	1200	0
9/5/2024 14:49	42902	MIDD_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/5/2024 14:50	48301	ORWI_T1	2	2	0	3.2	3.25	0.05	-0.11	-0.1	1	1	0	900	900	0
9/5/2024 14:51	53501	EVIL_T2	1	3	2	0.1	0.63	0.53	-0.01	-0.01	1	1	0	600	600	0
9/5/2024 14:52	52402	GRPA_T2	3	6	3	0.17	0.38	0.21	0	0	0	0	0	0	0	0
9/5/2024 14:52	52403	GRPA_T2	50	27	-23	0.61	0.43	-0.18	0.01	0.03	0	0	0	0	0	0
9/5/2024 14:56	46402	FLEM_T2	1	4	3	0.7	0.28	-0.42	0.31	0.34	0	0	0	0	0	0
9/5/2024 14:56	67804	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 14:56	67803	WLAN_T1	0	0	0	0	0	0	-0.66	-0.61	0	0	0	0	0	0
9/5/2024 14:56	46401	FLEM_T2	5	13	8	0.78	0.54	-0.24	0	0	0	0	0	0	0	0
9/5/2024 14:57	43402	BENT_T1	24	12	-12	0.38	0.51	0.13	-0.4	0.15	1	0	-1	600	0	-600
9/5/2024 14:59	41602	CLEV_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/5/2024 14:59	63602	LETO_T1	1	2	1	0.9	0.3	-0.6	0.34	0.2	0	0	0	0	0	0
9/5/2024 15:00	67502	WEWI_T2	9	5	-4	0.38	0.3	-0.08	-1.04	-1.02	1	1	0	900	900	0
9/5/2024 15:00	67503	WEWI_T2	1	1	0	7.2	7.4	0.2	0	0	0	0	0	0	0	0
9/5/2024 15:01	53501	EVIL_T2	1	3	2	0.3	0.63	0.33	-0.01	-0.01	1	2	1	600	800	200
9/5/2024 15:01	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.21	-0.14	0	0	0	0	0	0
9/5/2024 15:03	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.21	-0.14	0	0	0	0	0	0
9/5/2024 15:04	10801	CHHI_T1	2	3	1	0.3	0.5	0.2	-0.3	-0.29	1	1	0	900	900	0
9/5/2024 15:05	20601	GRWO_T2	3	18	15	0.17	0.1	-0.07	1.3	1.16	0	0	0	0	0	0
9/5/2024 15:05	67103	SPRI_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
9/5/2024 15:06	46004	BERW_T2	1	1	0	0.4	0.5	0.1	0.21	0.16	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/5/2024 15:11	29402	BELT_T1	3	82	79	0.43	0.47	0.04	0	0	0	0	0	0	0	0
9/5/2024 15:12	48901	FOSP_T2	1	2	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
9/5/2024 15:12	48902	FOSP_T2	1	1	0	0.3	0.1	-0.2	-0.49	-0.5	1	1	0	1200	1200	0
9/5/2024 15:13	48902	FOSP_T2	1	1	0	0.3	0.1	-0.2	-0.49	-0.5	1	1	0	1200	1200	0
9/5/2024 15:13	48901	FOSP_T2	1	2	1	1	0.6	-0.4	-0.11	-0.11	1	1	0	600	600	0
9/5/2024 15:16	40901	JESH_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/5/2024 15:16	40902	JESH_T1	2	2	0	0.4	0.35	-0.05	-0.96	-0.99	1	1	0	600	600	0
9/5/2024 15:17	25402	LAHA_T2	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
9/5/2024 15:19	63203	MGTN_T1	0	0	0	0	0	0	-0.59	-0.61	2	2	0	1200	1200	0
9/5/2024 15:24	59102	WALK_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/5/2024 15:24	59101	WALK_T2	1	2	1	3.9	3.4	-0.5	1.96	1.93	1	1	0	600	600	0
9/5/2024 15:27	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 15:27	21206	ECAR_T2	1	1	0	8.1	8	-0.1	0.51	0.39	0	0	0	0	0	0
9/5/2024 15:28	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 15:33	53501	EVIL_T2	3	3	0	0.6	0.47	-0.13	-0.01	-0.01	1	1	0	600	600	0
9/5/2024 15:33	25402	LAHA_T2	0	0	0	0	0	0	-0.32	-0.35	0	0	0	0	0	0
9/5/2024 15:34	16002	DORN_T2	0	0	0	0	0	0	-0.41	-0.35	1	1	0	1200	1200	0
9/5/2024 15:35	14402	SSLA_T1	3	3	0	0.63	0.73	0.1	0	0	0	0	0	0	0	0
9/5/2024 15:35	14401	SSLA_T1	2	2	0	0.65	0.7	0.05	-0.34	-0.27	0	0	0	0	0	0
9/5/2024 15:35	41902	REED_T1	0	0	0	0	0	0	1.29	1.31	0	0	0	0	0	0
9/5/2024 15:35	41901	REED_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
9/5/2024 15:35	14403	SSLA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/5/2024 15:35	14404	SSLA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/5/2024 15:38	43802	SWIL_T1	0	0	0	0	0	0	0.15	0.17	1	1	0	600	600	0
9/5/2024 15:38	43801	SWIL_T1	2	2	0	3	3.25	0.25	0	0	0	0	0	0	0	0
9/5/2024 15:39	59202	THOM_T1	15	6	-9	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
9/5/2024 15:40	42503	ALTA_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
9/5/2024 15:40	59202	THOM_T1	15	6	-9	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
9/5/2024 15:41	59202	THOM_T1	15	6	-9	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
9/5/2024 15:42	59202	THOM_T1	15	6	-9	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
9/5/2024 15:44	20603	GRWO_T2	0	0	0	0	0	0	-0.5	-0.51	1	1	0	900	900	0
9/5/2024 15:44	20601	GRWO_T2	18	3	-15	0.28	0	-0.28	0	0	0	0	0	0	0	0
9/5/2024 15:45	40101	HUNT_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
9/5/2024 15:46	46101	MACI_T2	0	0	0	0	0	0	-0.09	-0.1	1	1	0	1200	1200	0
9/5/2024 15:49	20601	GRWO_T2	3	0	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
9/5/2024 15:49	20603	GRWO_T2	0	0	0	0	0	0	-0.5	-0.51	1	1	0	900	900	0
9/5/2024 15:50	64503	LAVI_T1	0	0	0	0	0	0	-2.91	-2.71	4	4	0	4200	4200	0
9/5/2024 15:50	41901	REED_T1	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/5/2024 15:50	41902	REED_T1	0	0	0	0	0	0	1.31	1.29	0	0	0	0	0	0
9/5/2024 15:51	64503	LAVI_T1	0	0	0	0	0	0	-1.35	-1.51	2	2	0	2100	2100	0
9/5/2024 15:54	13704	SCHN_T2	1	1	0	0.2	0.1	-0.1	0.24	0.24	0	0	0	0	0	0
9/5/2024 15:54	67803	WLAN_T1	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
9/5/2024 15:54	67801	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 15:56	40201	BEGA_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/5/2024 15:57	59202	THOM_T1	6	1	-5	0.35	0.5	0.15	0	0	0	0	0	0	0	0
9/5/2024 15:58	59202	THOM_T1	6	1	-5	0.35	0.5	0.15	0	0	0	0	0	0	0	0
9/5/2024 15:58	48901	FOSP_T2	0	1	1	0	0.4	0.4	-0.12	-0.28	1	1	0	600	600	0
9/5/2024 15:59	44301	BEAV_T2	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
9/5/2024 16:00	40201	BEGA_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/5/2024 16:04	46005	BERW_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
9/5/2024 16:04	46001	BERW_T1	0	0	0	0	0	0	2.67	2.24	0	0	0	0	0	0
9/5/2024 16:06	41901	REED_T1	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
9/5/2024 16:06	46004	BERW_T2	1	1	0	0.4	0.4	0	0.14	0.11	0	0	0	0	0	0
9/5/2024 16:06	41902	REED_T1	0	0	0	0	0	0	1.3	1.31	0	0	0	0	0	0
9/5/2024 16:09	42201	SHEN_T2	1	1	0	0.3	0.2	-0.1	0.65	0.62	0	0	0	0	0	0
9/5/2024 16:11	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 16:11	29402	BELT_T1	49	37	-12	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
9/5/2024 16:15	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/5/2024 16:15	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
9/5/2024 16:16	12701	MACU_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
9/5/2024 16:17	58401	MORO_T1	0	0	0	0	0	0	-1.4	-1.44	2	2	0	1200	1200	0
9/5/2024 16:18	65502	MOJO_T2	0	0	0	0	0	0	-0.38	-0.48	1	1	0	900	900	0
9/5/2024 16:19	64101	REFR_T1	4	15	11	0.65	0.39	-0.26	-0.02	-0.02	0	0	0	0	0	0
9/5/2024 16:20	64101	REFR_T1	4	15	11	0.65	0.39	-0.26	-0.02	-0.02	0	0	0	0	0	0
9/5/2024 16:21	64101	REFR_T1	4	15	11	0.65	0.39	-0.26	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 16:22	64101	REFR_T1	4	15	11	0.65	0.39	-0.26	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 16:23	64101	REFR_T1	4	15	11	0.65	0.39	-0.26	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 16:26	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/5/2024 16:27	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 16:27	29402	BELT_T1	38	22	-16	0.54	0.64	0.1	0	0	0	0	0	0	0	0
9/5/2024 16:32	12701	MACU_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
9/5/2024 16:34	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 16:35	65502	MOJO_T2	0	0	0	0	0	0	-0.48	-0.58	1	1	0	900	900	0
9/5/2024 16:35	65503	MOJO_T2	0	0	0	0	0	0	-0.45	-0.43	1	1	0	900	900	0
9/5/2024 16:35	65802	RTWN_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
9/5/2024 16:36	48302	ORWI_T2	1	2	1	0.5	0.3	-0.2	-0.36	-0.35	0	0	0	0	0	0
9/5/2024 16:36	65503	MOJO_T2	0	0	0	0	0	0	-0.43	-0.44	1	1	0	900	900	0
9/5/2024 16:38	55507	HERS_T1	0	0	0	0	0	0	0.91	0.96	0	0	0	0	0	0
9/5/2024 16:42	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 16:48	12701	MACU_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
9/5/2024 16:49	47403	PENS_T1	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
9/5/2024 16:49	47401	PENS_T1	1	0	-1	0.1	0	-0.1	1.01	0.95	0	0	0	0	0	0
9/5/2024 16:52	47401	PENS_T1	1	0	-1	0.1	0	-0.1	0.95	0.98	0	0	0	0	0	0
9/5/2024 16:52	47403	PENS_T1	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
9/5/2024 16:54	47403	PENS_T1	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
9/5/2024 16:54	47401	PENS_T1	1	0	-1	0.1	0	-0.1	0.95	0.98	0	0	0	0	0	0
9/5/2024 17:03	42002	MNVL_T2	1	1	0	3.1	3	-0.1	0	0	0	0	0	0	0	0
9/5/2024 17:03	15601	NSTR_T2	3	3	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
9/5/2024 17:03	42001	MNVL_T2	73	82	9	0.35	0.4	0.05	0.13	0.1	0	0	0	0	0	0
9/5/2024 17:03	15603	NSTR_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
9/5/2024 17:04	46101	MACI_T2	0	0	0	0	0	0	-0.1	0.78	1	0	-1	1200	0	-1200
9/5/2024 17:04	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 17:09	49803	UNIV_T1	1	1	0	4.8	4.8	0	-1.97	-1.93	0	0	0	0	0	0
9/5/2024 17:09	49804	UNIV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/5/2024 17:10	64203	KINZ_T1	0	0	0	0	0	0	-0.93	-0.15	2	1	-1	1800	600	-1200
9/5/2024 17:10	64202	KINZ_T1	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
9/5/2024 17:10	64204	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
9/5/2024 17:11	64204	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
9/5/2024 17:11	64203	KINZ_T1	0	0	0	0	0	0	-0.93	-0.15	2	1	-1	1800	600	-1200
9/5/2024 17:11	64202	KINZ_T1	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
9/5/2024 17:13	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 17:15	62607	ENGL_T1	0	0	0	0	0	0	-0.73	-0.72	1	1	0	300	300	0
9/5/2024 17:19	53501	EVIL_T2	2	2	0	0.8	0.6	-0.2	-0.01	-0.01	1	1	0	600	600	0
9/5/2024 17:20	47401	PENS_T1	0	0	0	0	0	0	0.98	1	0	0	0	0	0	0
9/5/2024 17:23	47401	PENS_T1	0	0	0	0	0	0	1	0.92	0	0	0	0	0	0
9/5/2024 17:31	40101	HUNT_T2	1	1	0	0.2	0	-0.2	-0.31	-0.34	0	0	0	0	0	0
9/5/2024 17:32	16005	DORN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/5/2024 17:32	16001	DORN_T1	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
9/5/2024 17:45	63306	GREE_T1	0	0	0	0	0	0	-1.77	-1.81	1	1	0	900	900	0
9/5/2024 17:45	63305	GREE_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/5/2024 17:49	46102	MACI_T1	0	0	0	0	0	0	0.85	0.85	0	0	0	0	0	0
9/5/2024 17:50	55405	SHER_T1	0	5	5	0	0.2	0.2	-0.17	-0.17	0	0	0	0	0	0
9/5/2024 17:53	64101	REFR_T1	208	209	1	1.01	1.04	0.03	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 17:55	51301	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 17:55	45602	WOOL_T1	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
9/5/2024 17:55	51303	WIND_T1	14	14	0	0.26	0.18	-0.08	0	0	0	0	0	0	0	0
9/5/2024 18:10	14801	TREI_T2	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
9/5/2024 18:11	40801	EXCH_T2	2	3	1	0.2	0.23	0.03	-0.11	-0.19	1	1	0	1200	1200	0
9/5/2024 18:11	40802	EXCH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 18:17	64503	LAVI_T1	0	0	0	0	0	0	-1.45	-1.51	1	1	0	1200	1200	0
9/5/2024 18:18	64503	LAVI_T1	0	0	0	0	0	0	-2.9	-3.02	2	2	0	2400	2400	0
9/5/2024 18:19	26402	INOR_T1	0	0	0	0	0	0	-1.78	-1.79	1	1	0	600	600	0
9/5/2024 18:19	26401	INOR_T1	1	1	0	7.2	8.3	1.1	0	0	0	0	0	0	0	0
9/5/2024 18:22	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 18:23	64503	LAVI_T1	0	0	0	0	0	0	-1.51	-1.64	1	1	0	1200	1200	0
9/5/2024 18:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 18:30	49803	UNIV_T1	1	1	0	4.8	5.2	0.4	0	0	0	0	0	0	0	0
9/5/2024 18:30	49804	UNIV_T1	0	0	0	0	0	0	0.96	0.9	0	0	0	0	0	0
9/5/2024 18:34	12006	HATF_T1	0	0	0	0	0	0	-0.19	-0.2	2	2	0	2400	2400	0
9/5/2024 18:34	12002	HATF_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/5/2024 18:36	41901	REED_T1	8	9	1	0.44	0.59	0.15	0	0	0	0	0	0	0	0
9/5/2024 18:36	43106	SMIL_T2	0	0	0	0	0	0	-1.46	-1.52	2	2	0	2400	2400	0
9/5/2024 18:36	43105	SMIL_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
9/5/2024 18:36	43102	SMIL_T2	6	6	0	0.42	0.55	0.13	0	0	0	0	0	0	0	0
9/5/2024 18:36	41902	REED_T1	1	0	-1	0.3	0	-0.3	1.36	1.3	0	0	0	0	0	0
9/5/2024 18:37	41901	REED_T1	8	9	1	0.44	0.59	0.15	0	0	0	0	0	0	0	0
9/5/2024 18:37	41902	REED_T1	1	0	-1	0.3	0	-0.3	2.72	2.59	0	0	0	0	0	0
9/5/2024 18:38	43102	SMIL_T2	6	6	0	0.42	0.55	0.13	0	0	0	0	0	0	0	0
9/5/2024 18:38	43105	SMIL_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
9/5/2024 18:38	43402	BENT_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
9/5/2024 18:38	43106	SMIL_T2	0	0	0	0	0	0	-1.46	-1.52	2	2	0	2400	2400	0
9/5/2024 18:40	11903	ETEX_T1	0	0	0	0	0	0	0.85	0.91	0	0	0	0	0	0
9/5/2024 18:41	43102	SMIL_T2	6	6	0	0.42	0.55	0.13	0	0	0	0	0	0	0	0
9/5/2024 18:41	43106	SMIL_T2	0	0	0	0	0	0	-1.46	-1.52	2	2	0	2400	2400	0
9/5/2024 18:41	43105	SMIL_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
9/5/2024 18:42	67804	WLAN_T1	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/5/2024 18:42	67801	WLAN_T1	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0
9/5/2024 18:47	50107	HARR_T3	1	1	0	6.4	6.1	-0.3	0	0	0	0	0	0	0	0
9/5/2024 18:47	50105	HARR_T3	6	6	0	6.58	6.33	-0.25	0	0	0	0	0	0	0	0
9/5/2024 18:47	50201	HARR_T3	1	1	0	0.9	1.2	0.3	-0.39	-0.4	1	1	0	1200	1200	0
9/5/2024 18:47	51402	LYKE_T1	0	0	0	0	0	0	-2	-1.39	2	1	-1	1200	600	-600
9/5/2024 18:50	12807	MICK_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/5/2024 18:50	12802	MICK_T1	0	0	0	0	0	0	-0.86	-0.89	0	0	0	0	0	0
9/5/2024 18:54	43105	SMIL_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/5/2024 18:54	43102	SMIL_T2	6	6	0	0.53	0.45	-0.08	-0.67	-0.69	1	1	0	600	600	0
9/5/2024 18:55	57006	WHHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/5/2024 18:55	57004	WHHI_T2	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
9/5/2024 19:10	51306	WIND_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
9/5/2024 20:15	26704	HEML_T2	0	0	0	0	0	0	-0.64	-0.68	1	1	0	1200	1200	0
9/5/2024 20:19	56501	ROCK_T2	2	2	0	0.25	0.5	0.25	0.28	0.27	0	0	0	0	0	0
9/5/2024 20:31	62101	ELAN_T1	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
9/5/2024 20:31	62105	ELAN_T1	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
9/5/2024 20:39	63401	HONY_T1	0	0	0	0	0	0	-0.09	0.01	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/5/2024 20:44	66302	MCGO_T2	0	0	0	0	0	0	-1.42	-1.48	1	1	0	600	600	0
9/5/2024 20:56	60101	COCA_T1	0	0	0	0	0	0	0.92	0.89	0	0	0	0	0	0
9/5/2024 20:58	60101	COCA_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
9/5/2024 20:59	60101	COCA_T1	0	0	0	0	0	0	1.84	1.79	0	0	0	0	0	0
9/5/2024 21:00	60101	COCA_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
9/5/2024 21:03	52006	LING_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
9/5/2024 21:03	52004	LING_T2	2	2	0	6.25	6.35	0.1	0.23	0.19	0	0	0	0	0	0
9/5/2024 21:07	59202	THOM_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
9/5/2024 21:07	59201	THOM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 21:08	55002	NEWP_T1	6	5	-1	0.87	0.6	-0.27	-0.22	-0.23	0	0	0	0	0	0
9/5/2024 21:10	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:13	45901	AUBU_T1	267	334	67	0.51	0.54	0.03	0	0	0	0	0	0	0	0
9/5/2024 21:13	45902	AUBU_T1	414	486	72	0.46	0.51	0.05	-0.33	-0.34	0	0	0	0	0	0
9/5/2024 21:20	56501	ROCK_T2	2	2	0	0.5	0.4	-0.1	0.23	0.25	0	0	0	0	0	0
9/5/2024 21:21	56501	ROCK_T2	2	2	0	0.5	0.4	-0.1	0.23	0.25	0	0	0	0	0	0
9/5/2024 21:22	50701	SMEC_T1	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
9/5/2024 21:22	12402	MILF_T1	0	0	0	0	0	0	0.75	0.73	0	0	0	0	0	0
9/5/2024 21:22	62604	ENGL_T1	0	0	0	0	0	0	-0.62	-0.74	1	1	0	600	600	0
9/5/2024 21:22	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:24	22805	HAUT_T2	1	0	-1	0.5	0	-0.5	-0.49	-0.49	0	0	0	0	0	0
9/5/2024 21:24	13002	NBET_T2	0	0	0	0	0	0	-3.1	-3.1	4	4	0	4800	4800	0
9/5/2024 21:24	15702	TANN_T2	8	6	-2	0.11	0.13	0.02	-0.33	-0.39	0	0	0	0	0	0
9/5/2024 21:24	64902	MILL_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	900	900	0
9/5/2024 21:24	15703	TANN_T2	1	1	0	4.8	4.7	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:24	56501	ROCK_T2	2	2	0	0.5	0.4	-0.1	0.25	0.19	0	0	0	0	0	0
9/5/2024 21:25	29402	BELT_T1	1	1	0	7.1	7.6	0.5	0	0	0	0	0	0	0	0
9/5/2024 21:25	23203	HIRU_T2	2	5	3	0.1	0.12	0.02	0	0	0	0	0	0	0	0
9/5/2024 21:25	23202	HIRU_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
9/5/2024 21:25	23201	HIRU_T2	2	3	1	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/5/2024 21:26	24801	VALM_T1	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
9/5/2024 21:26	15601	NSTR_T2	3	3	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/5/2024 21:26	15603	NSTR_T2	0	1	1	0	0.1	0.1	-0.23	-0.23	0	0	0	0	0	0
9/5/2024 21:26	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:26	44201	POIN_T1	52	61	9	0.17	0.19	0.02	-1.82	-1.73	2	2	0	2100	2100	0
9/5/2024 21:27	67503	WEWI_T2	1	1	0	8	8.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 21:27	43802	SWIL_T1	1	0	-1	0.1	0	-0.1	0.07	0.04	1	1	0	600	600	0
9/5/2024 21:27	45901	AUBU_T1	245	426	181	0.5	0.6	0.1	0.67	0.66	0	0	0	0	0	0
9/5/2024 21:27	63403	HONY_T2	0	0	0	0	0	0	-0.48	-0.47	1	1	0	600	600	0
9/5/2024 21:27	45902	AUBU_T1	417	590	173	0.43	0.69	0.26	0	0	0	0	0	0	0	0
9/5/2024 21:27	47001	HUGH_T2	3	12	9	8.97	2.52	-6.45	-0.74	-0.75	0	0	0	0	0	0
9/5/2024 21:27	15203	SFAR_T2	0	0	0	0	0	0	-1.03	-1.01	0	0	0	0	0	0
9/5/2024 21:27	63402	HONY_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:27	43801	SWIL_T1	82	34	-48	0.35	0.39	0.04	0	0	0	0	0	0	0	0
9/5/2024 21:27	25402	LAHA_T2	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
9/5/2024 21:27	67502	WEWI_T2	18	32	14	0.12	0.13	0.01	-1.28	-1.32	1	1	0	900	900	0
9/5/2024 21:27	67605	WARW_T1	18	23	5	0.45	0.54	0.09	0	0	0	0	0	0	0	0
9/5/2024 21:27	12001	HATF_T1	0	0	0	0	0	0	1.26	1.28	1	1	0	600	600	0
9/5/2024 21:27	67603	WARW_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
9/5/2024 21:28	56501	ROCK_T2	2	2	0	0.5	0.4	-0.1	0.25	0.19	0	0	0	0	0	0
9/5/2024 21:28	46002	BERW_T2	0	0	0	0	0	0	-0.91	-0.94	1	1	0	900	900	0
9/5/2024 21:28	66903	SHIL_T2	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
9/5/2024 21:28	16101	BING_T2	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
9/5/2024 21:28	16102	BING_T2	14	16	2	0.39	0.39	0	0	0	0	0	0	0	0	0
9/5/2024 21:28	20603	GRWO_T2	1	46	45	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/5/2024 21:28	13503	MCMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:28	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 21:28	13501	MCMI_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
9/5/2024 21:28	15701	TANN_T1	1	2	1	4.8	2.75	-2.05	0	0	0	0	0	0	0	0
9/5/2024 21:28	20601	GRWO_T2	0	1	1	0	0	0	0.73	0.75	0	0	0	0	0	0
9/5/2024 21:28	15704	TANN_T1	0	0	0	0	0	0	-0.34	-0.44	0	0	0	0	0	0
9/5/2024 21:28	16402	MOPO_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
9/5/2024 21:29	50105	HARR_T3	6	0	0	6.23	6.2	-0.03	0	0	0	0	0	0	0	0
9/5/2024 21:29	50102	HARR_T3	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/5/2024 21:29	63602	LETO_T1	0	0	0	0	0	0	-0.19	-0.28	0	0	0	0	0	0
9/5/2024 21:29	50202	HARR_T3	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:29	50107	HARR_T3	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:29	24501	GOUL_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
9/5/2024 21:29	43105	SMIL_T2	24	24	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
9/5/2024 21:29	66901	SHIL_T2	0	0	0	0	0	0	-1.48	-1.5	1	1	0	1200	1200	0
9/5/2024 21:29	16402	MOPO_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
9/5/2024 21:29	50201	HARR_T3	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:29	43106	SMIL_T2	0	0	0	0	0	0	-0.29	-0.34	1	1	0	1200	1200	0
9/5/2024 21:29	13905	SEID_T1	0	0	0	0	0	0	-0.88	-0.89	1	1	0	1200	1200	0
9/5/2024 21:29	27502	WEIS_T2	0	0	0	0	0	0	-1.38	-1.41	0	0	0	0	0	0
9/5/2024 21:29	43102	SMIL_T2	8	6	-2	0.84	0.67	-0.17	0	0	0	0	0	0	0	0
9/5/2024 21:29	50103	HARR_T3	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/5/2024 21:29	43108	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 21:29	43103	SMIL_T2	15	19	4	0.46	0.46	0	0	0	0	0	0	0	0	0
9/5/2024 21:30	23203	HIRU_T2	5	0	-5	0.12	0	-0.12	0.17	-0.05	0	0	0	0	0	0
9/5/2024 21:30	66703	STRA_T1	1	5	4	0.1	0.24	0.14	-0.16	-0.2	0	0	0	0	0	0
9/5/2024 21:30	23403	HONE_T1	0	0	0	0	0	0	-0.73	-0.7	0	0	0	0	0	0
9/5/2024 21:30	48302	ORWI_T2	2	2	0	0.75	1.15	0.4	0.02	0	0	0	0	0	0	0
9/5/2024 21:30	13002	NBET_T2	0	0	0	0	0	0	-1.55	-1.55	2	2	0	2400	2400	0
9/5/2024 21:30	26402	INOR_T1	0	0	0	0	0	0	-1.03	-1.06	1	1	0	600	600	0
9/5/2024 21:30	15001	BLMO_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/5/2024 21:30	52502	PROG_T2	0	0	0	0	0	0	-0.46	-0.49	1	1	0	900	900	0
9/5/2024 21:30	12701	MACU_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
9/5/2024 21:30	65503	MOJO_T2	1	53	52	0.1	0.13	0.03	-0.03	-0.07	0	0	0	0	0	0
9/5/2024 21:30	13001	NBET_T2	0	0	0	0	0	0	-0.76	-0.79	1	1	0	1200	1200	0
9/5/2024 21:30	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:30	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:30	26401	INOR_T1	1	1	0	8.6	8.8	0.2	0	0	0	0	0	0	0	0
9/5/2024 21:30	67402	WAKE_T2	0	0	0	0	0	0	-0.31	-0.33	1	1	0	600	600	0
9/5/2024 21:30	13503	MCMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:30	27502	WEIS_T2	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
9/5/2024 21:30	65502	MOJO_T2	126	313	187	0.13	0.25	0.12	0	0	0	0	0	0	0	0
9/5/2024 21:30	67502	WEWI_T2	32	18	-14	0.13	0.17	0.04	-1.28	-1.32	1	1	0	900	900	0
9/5/2024 21:30	23201	HIRU_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
9/5/2024 21:30	12801	MICK_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
9/5/2024 21:30	12807	MICK_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:30	42601	TUSC_T1	1	1	0	0.3	0.4	0.1	-0.5	-0.39	2	2	0	1800	1800	0
9/5/2024 21:30	67503	WEWI_T2	1	1	0	8	8.4	0.4	0.07	0.03	0	0	0	0	0	0
9/5/2024 21:30	64302	LINC_T2	0	0	0	0	0	0	1.2	1.19	0	0	0	0	0	0
9/5/2024 21:31	42001	MNVL_T2	263	265	2	0.86	0.91	0.05	-0.19	-0.22	0	0	0	0	0	0
9/5/2024 21:31	43105	SMIL_T2	24	27	3	0.3	0.38	0.08	0	0	0	0	0	0	0	0
9/5/2024 21:31	57401	SPAN_T1	2	2	0	1.1	1.4	0.3	0	-0.25	1	1	0	600	600	0
9/5/2024 21:31	12807	MICK_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:31	59201	THOM_T1	2	7	5	0.1	0.25	0.15	0	0	0	0	0	0	0	0
9/5/2024 21:31	10805	CHHI_T2	1	1	0	7.4	7.3	-0.1	-0.85	-0.77	1	1	0	600	600	0
9/5/2024 21:31	52004	LING_T2	2	2	0	6.35	6.4	0.05	0.19	0.19	0	0	0	0	0	0
9/5/2024 21:31	65003	NEFF_T2	6	4	-2	0.22	0.25	0.03	0	0	0	0	0	0	0	0
9/5/2024 21:31	11104	EGYP_T1	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
9/5/2024 21:31	42601	TUSC_T1	1	1	0	0.3	0.4	0.1	-0.5	-0.39	2	2	0	1800	1800	0
9/5/2024 21:31	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0.58	0.55	0	0	0	0	0	0
9/5/2024 21:31	43103	SMIL_T2	18	22	4	0.44	0.64	0.2	0	0	0	0	0	0	0	0
9/5/2024 21:31	12801	MICK_T1	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
9/5/2024 21:31	15001	BLMO_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/5/2024 21:31	52006	LING_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
9/5/2024 21:31	43108	SMIL_T2	3	3	0	0	0.4	0.4	0	0	0	0	0	0	0	0
9/5/2024 21:31	64503	LAVI_T1	0	1	1	0	0.1	0.1	-3.3	-3.43	2	2	0	2400	2400	0
9/5/2024 21:31	53903	HALI_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:31	42002	MNVL_T2	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
9/5/2024 21:31	51202	MTON_T2	0	0	0	0	0	0	-1.01	-1.02	1	1	0	1200	1200	0
9/5/2024 21:31	64201	KINZ_T1	5	1	-4	0.48	1	0.52	-0.73	-0.71	3	3	0	1500	1500	0
9/5/2024 21:31	59202	THOM_T1	4	35	31	0.15	0.19	0.04	0	0	0	0	0	0	0	0
9/5/2024 21:31	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	1	0	900	900
9/5/2024 21:31	28303	NEWF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:31	64202	KINZ_T1	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/5/2024 21:31	43102	SMIL_T2	6	8	2	0.67	0.55	-0.12	-0.27	-0.29	1	0	-1	600	0	-600
9/5/2024 21:31	23201	HIRU_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
9/5/2024 21:31	63602	LETO_T1	0	0	0	0	0	0	-0.19	-0.28	0	0	0	0	0	0
9/5/2024 21:31	63403	HONY_T2	0	0	0	0	0	0	-0.48	-0.47	1	1	0	600	600	0
9/5/2024 21:31	63402	HONY_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/5/2024 21:31	67605	WARW_T1	19	28	9	0.48	0.56	0.08	-1.07	-1.07	0	0	0	0	0	0
9/5/2024 21:31	29402	BELT_T1	1	1	0	7.3	7.9	0.6	0	0	0	0	0	0	0	0
9/5/2024 21:31	64204	KINZ_T1	9	1	-8	0.24	1.2	0.96	0	0	0	0	0	0	0	0
9/5/2024 21:31	53902	HALI_T2	1	1	0	5.1	5.4	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:31	53901	HALI_T2	2	1	-1	0.6	1	0.4	-2.38	-2.36	0	0	0	0	0	0
9/5/2024 21:31	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:31	23203	HIRU_T2	5	0	-5	0.12	0	-0.12	0.17	-0.05	0	0	0	0	0	0
9/5/2024 21:31	11507	FREE_T2	0	0	0	0	0	0	0.69	0.77	0	0	0	0	0	0
9/5/2024 21:31	57403	SPAN_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
9/5/2024 21:31	65001	NEFF_T2	0	0	0	0	0	0	-0.76	-0.79	1	1	0	1200	1200	0
9/5/2024 21:32	63501	HEID_TBK1-2	29	56	27	0.43	0.39	-0.04	-0.4	-0.44	1	1	0	900	900	0
9/5/2024 21:32	57401	SPAN_T1	2	2	0	1.1	1.4	0.3	0	-0.25	1	1	0	600	600	0
9/5/2024 21:32	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:32	14401	SILA_T1	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
9/5/2024 21:32	50107	HARR_T3	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
9/5/2024 21:32	45902	AUBU_T1	482	724	242	0.5	0.83	0.33	-0.68	-0.89	0	0	0	0	0	0
9/5/2024 21:32	67502	WEWI_T2	32	18	-14	0.13	0.17	0.04	-1.28	-1.32	1	1	0	900	900	0
9/5/2024 21:32	11104	EGYP_T1	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
9/5/2024 21:32	13704	SCHN_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
9/5/2024 21:32	50105	HARR_T3	6	6	0	6.2	6.23	0.03	0	0	0	0	0	0	0	0
9/5/2024 21:32	14802	TREI_T2	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
9/5/2024 21:32	64503	LAVI_T1	0	1	1	0	0.1	0.1	-1.65	-1.72	1	1	0	1200	1200	0
9/5/2024 21:32	47403	PENS_T1	4	32	28	0.13	0.19	0.06	0	0	0	0	0	0	0	0
9/5/2024 21:32	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0.58	0.55	0	0	0	0	0	0
9/5/2024 21:32	50202	HARR_T3	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/5/2024 21:32	12701	MACU_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
9/5/2024 21:32	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:32	67503	WEWI_T2	1	1	0	8	8.4	0.4	0	0	0	0	0	0	0	0
9/5/2024 21:32	62607	ENGL_T1	0	0	0	0	0	0	-0.85	-0.89	1	1	0	300	300	0
9/5/2024 21:32	67605	WARW_T1	19	28	9	0.48	0.56	0.08	-1.07	-1.07	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/5/2024 21:32	16103	BING_T2	0	0	0	0	0	0	-1.3	-1.28	1	1	0	900	900	0
9/5/2024 21:32	40101	HUNT_T2	0	0	0	0	0	0	-0.8	-0.84	0	0	0	0	0	0
9/5/2024 21:32	47401	PENS_T1	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
9/5/2024 21:32	50103	HARR_T3	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:32	45901	AUBU_T1	329	485	156	0.54	0.73	0.19	0	0	0	0	0	0	0	0
9/5/2024 21:32	50201	HARR_T3	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
9/5/2024 21:32	58402	MORO_T1	0	0	0	0	0	0	-0.13	-0.17	2	2	0	1500	1500	0
9/5/2024 21:32	40201	BEGA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/5/2024 21:32	48302	ORWI_T2	2	2	0	0.75	1.15	0.4	0	0	0	0	0	0	0	0
9/5/2024 21:32	50102	HARR_T3	2	4	2	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
9/5/2024 21:32	57403	SPAN_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
9/5/2024 21:32	16102	BING_T2	13	18	5	0.43	0.46	0.03	0	0	0	0	0	0	0	0
9/5/2024 21:33	64202	KINZ_T1	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/5/2024 21:33	50501	MECH_T1	4	4	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
9/5/2024 21:33	52006	LING_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
9/5/2024 21:33	45901	AUBU_T1	329	485	156	0.54	0.73	0.19	0.67	0.66	0	0	0	0	0	0
9/5/2024 21:33	53903	HALI_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:33	43402	BENT_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
9/5/2024 21:33	12807	MICK_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:33	55101	WERT_T1	0	0	0	0	0	0	-1.23	-1.25	2	2	0	1500	1500	0
9/5/2024 21:33	12604	MACA_T1	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
9/5/2024 21:33	24204	PROV_T3	2	2	0	2.8	2.85	0.05	0	0	0	0	0	0	0	0
9/5/2024 21:33	66504	SMAN_T2	0	0	0	0	0	0	-0.87	-0.99	0	0	0	0	0	0
9/5/2024 21:33	53901	HALI_T2	2	1	-1	0.6	1	0.4	-1.19	-1.18	0	0	0	0	0	0
9/5/2024 21:33	50502	MECH_T1	70	116	46	0.21	0.26	0.05	-0.34	-0.33	2	2	0	2100	2100	0
9/5/2024 21:33	52004	LING_T2	2	2	0	6.35	6.4	0.05	0	0	0	0	0	0	0	0
9/5/2024 21:33	15602	NSTR_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
9/5/2024 21:33	24201	PROV_T3	6	14	8	1.15	0.58	-0.57	-1.3	-1.31	1	1	0	1200	1200	0
9/5/2024 21:33	15703	TANN_T2	1	3	2	4.7	1.63	-3.07	0	0	0	0	0	0	0	0
9/5/2024 21:33	22905	HARW_T1	0	0	0	0	0	0	-0.64	-0.69	0	0	0	0	0	0
9/5/2024 21:33	20601	GRWO_T2	1	0	-1	0.1	0	-0.1	0.73	0.75	0	0	0	0	0	0
9/5/2024 21:33	55002	NEWP_T1	5	5	0	0.6	0.86	0.26	0	0	0	0	0	0	0	0
9/5/2024 21:33	52002	LING_T2	0	0	0	0	0	0	0.17	0.08	0	0	0	0	0	0
9/5/2024 21:33	15603	NSTR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/5/2024 21:33	64201	KINZ_T1	5	1	-4	0.48	1	0.52	-0.73	-0.71	3	3	0	1500	1500	0
9/5/2024 21:33	44801	EDAN_T2	333	349	16	0.71	0.74	0.03	0	0	0	0	0	0	0	0
9/5/2024 21:33	40802	EXCH_T2	15	43	28	0.11	0.12	0.01	-0.21	-0.23	0	0	0	0	0	0
9/5/2024 21:33	15601	NSTR_T2	3	3	0	0.8	0.93	0.13	0	0	0	0	0	0	0	0
9/5/2024 21:33	42902	MIDD_T2	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
9/5/2024 21:33	56501	ROCK_T2	2	2	0	0.4	0.35	-0.05	0.25	0.19	0	0	0	0	0	0
9/5/2024 21:33	15702	TANN_T2	6	6	0	0.13	0.1	-0.03	-0.67	-0.78	0	0	0	0	0	0
9/5/2024 21:33	46506	LOHA_T1	3	3	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
9/5/2024 21:33	14403	SSLA_T1	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
9/5/2024 21:33	13704	SOHN_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
9/5/2024 21:33	40801	EXCH_T2	4	4	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
9/5/2024 21:33	20603	GRWO_T2	12	92	80	0.13	0.22	0.09	0	0	0	0	0	0	0	0
9/5/2024 21:33	12801	MICK_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
9/5/2024 21:33	55001	NEWP_T1	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
9/5/2024 21:33	45902	AUBU_T1	482	724	242	0.5	0.83	0.33	-0.34	-0.44	0	0	0	0	0	0
9/5/2024 21:33	42903	MIDD_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/5/2024 21:33	46501	LOHA_T1	0	0	0	0	0	0	0.18	0.19	1	1	0	1200	1200	0
9/5/2024 21:33	64204	KINZ_T1	9	1	-8	0.24	1.2	0.96	0	0	0	0	0	0	0	0
9/5/2024 21:33	44802	EDAN_T2	1	1	0	0.3	0.2	-0.1	-0.64	-0.59	0	0	0	0	0	0
9/5/2024 21:33	46504	LOHA_T1	2	36	34	0.9	0.27	-0.63	0	0	0	0	0	0	0	0
9/5/2024 21:33	48301	ORWI_T1	2	2	0	5.25	5.6	0.35	-0.5	-0.51	1	1	0	900	900	0
9/5/2024 21:33	53902	HALI_T2	1	1	0	5.1	5.4	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:33	49803	UNIV_T1	1	1	0	5.9	5.8	-0.1	-1.01	-1.02	0	0	0	0	0	0
9/5/2024 21:33	20401	ASHF_T2	2	4	2	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
9/5/2024 21:33	66505	SMAN_T2	3	3	0	0.43	0.87	0.44	0	0	0	0	0	0	0	0
9/5/2024 21:33	20403	ASHF_T2	0	0	0	0	0	0	0.25	0.21	0	0	0	0	0	0
9/5/2024 21:33	48902	FOSP_T2	0	0	0	0	0	0	0.04	0.15	0	0	0	0	0	0
9/5/2024 21:33	63501	HEID_TBK1-2	29	56	27	0.43	0.39	-0.04	-0.4	-0.44	1	1	0	900	900	0
9/5/2024 21:33	67605	WARW_T1	19	28	9	0.48	0.56	0.08	-1.07	-1.07	0	0	0	0	0	0
9/5/2024 21:34	12802	MICK_T1	0	0	0	0	0	0	-1.08	-1.16	0	0	0	0	0	0
9/5/2024 21:34	57401	SPAN_T1	2	2	0	1.1	1.4	0.3	0	-0.25	1	1	0	600	600	0
9/5/2024 21:34	24204	PROV_T3	2	2	0	2.8	2.85	0.05	0	0	0	0	0	0	0	0
9/5/2024 21:34	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/5/2024 21:34	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 21:34	15703	TANN_T2	1	3	2	4.7	1.63	-3.07	0	0	0	0	0	0	0	0
9/5/2024 21:34	20403	ASHF_T2	0	0	0	0	0	0	0.25	0.21	0	0	0	0	0	0
9/5/2024 21:34	23203	HIRU_T2	5	0	-5	0.12	0	-0.12	0.17	-0.05	0	0	0	0	0	0
9/5/2024 21:34	57403	SPAN_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
9/5/2024 21:34	12807	MICK_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:34	15203	SFAR_T2	0	0	0	0	0	0	-1.03	-1.01	0	0	0	0	0	0
9/5/2024 21:34	23201	HIRU_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
9/5/2024 21:34	15702	TANN_T2	6	6	0	0.13	0.1	-0.03	-0.33	-0.39	0	0	0	0	0	0
9/5/2024 21:34	41901	REED_T1	2	6	4	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
9/5/2024 21:34	45501	DERR_T2	0	0	0	0	0	0	-0.27	-0.31	2	2	0	1800	1800	0
9/5/2024 21:34	55002	NEWP_T1	5	0	-5	0.6	0.86	0.26	-0.23	-0.23	0	0	0	0	0	0
9/5/2024 21:34	28703	HAML_T2	3	3	0	0.27	0.3	0.03	0	0	0	0	0	0	0	0
9/5/2024 21:34	15204	SFAR_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
9/5/2024 21:34	20401	ASHF_T2	2	4	2	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
9/5/2024 21:34	47901	HRDG_T1	0	0	0	0	0	0	1.46	1.52	0	0	0	0	0	0
9/5/2024 21:34	59202	THOM_T1	4	35	31	0.15	0.19	0.04	0	0	0	0	0	0	0	0
9/5/2024 21:34	66505	SMAN_T2	3	3	0	0.43	0.87	0.44	0	0	0	0	0	0	0	0
9/5/2024 21:34	28704	HAML_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/5/2024 21:34	42201	SHEN_T2	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
9/5/2024 21:34	61501	EPET_T2	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0	0
9/5/2024 21:34	41902	REED_T1	0	0	0	0	0	0	1.15	1.13	0	0	0	0	0	0
9/5/2024 21:34	65802	RTWN_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
9/5/2024 21:34	28702	HAML_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
9/5/2024 21:34	24201	PROV_T3	6	14	8	1.15	0.58	-0.57	-1.3	-1.31	1	1	0	1200	1200	0
9/5/2024 21:34	66903	SHIL_T2	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
9/5/2024 21:34	61506	EPET_T2	0	0	0	0	0	0	0.27	0.22	0	0	0	0	0	0
9/5/2024 21:34	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:34	66901	SHIL_T2	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
9/5/2024 21:34	59201	THOM_T1	2	7	5	0.1	0.25	0.15	0	0	0	0	0	0	0	0
9/5/2024 21:34	45702	LIND_T2	0	1	1	0	0.2	0.2	-0.45	-0.47	0	0	0	0	0	0
9/5/2024 21:35	10805	CHHI_T2	1	1	0	7.4	7.3	-0.1	-0.85	-0.77	1	1	0	600	600	0
9/5/2024 21:35	53903	HALI_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:35	67805	WLAN_T1	16	58	42	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/5/2024 21:35	45702	LIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/5/2024 21:35	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 21:35	57403	SPAN_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
9/5/2024 21:35	47101	MARL_T1	2	1	-1	1.55	0.8	-0.75	-0.14	-0.19	0	0	0	0	0	0
9/5/2024 21:35	51402	LYKE_T1	9	1	-8	0.1	0.1	0	-1.48	-1.47	1	1	0	600	600	0
9/5/2024 21:35	48301	ORWI_T1	2	2	0	5.25	5.6	0.35	-0.5	-0.51	1	1	0	900	900	0
9/5/2024 21:35	67103	SPRI_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
9/5/2024 21:35	14204	EALL_T2	0	0	0	0	0	0	0.49	0.4	0	0	0	0	0	0
9/5/2024 21:35	45902	AUBU_T1	482	724	242	0.5	0.83	0.33	-0.34	-0.44	0	0	0	0	0	0
9/5/2024 21:35	45901	AUBU_T1	329	485	156	0.54	0.73	0.19	0.67	0.66	0	0	0	0	0	0
9/5/2024 21:35	24105	EHAZ_T1	4	4	0	6.13	6.13	0	0	0	0	0	0	0	0	0
9/5/2024 21:35	66505	SMAN_T2	3	3	0	0.43	0.87	0.44	-0.05	-0.15	2	2	0	1500	1500	0
9/5/2024 21:35	10903	COOP_T2	0	0	0	0	0	0	-0.22	-0.22	1	1	0	600	600	0
9/5/2024 21:35	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:35	67803	WLAN_T1	0	0	0	0	0	0	-1.46	-1.48	0	0	0	0	0	0
9/5/2024 21:35	13005	NBET_T2	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
9/5/2024 21:35	24102	EHAZ_T1	0	1	1	0	0	0	0.55	0.63	0	0	0	0	0	0
9/5/2024 21:35	63601	LETO_T1	0	0	0	0	0	0	0.38	0.37	2	2	0	2100	2100	0
9/5/2024 21:35	44802	EDAN_T2	1	1	0	0.3	0.2	-0.1	-0.64	-0.59	0	0	0	0	0	0
9/5/2024 21:35	14404	SSLA_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
9/5/2024 21:35	53501	EVIL_T2	2	2	0	0.65	0.9	0.25	-0.01	-0.01	1	1	0	600	600	0
9/5/2024 21:35	45701	LIND_T2	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
9/5/2024 21:35	47203	FAXO_T2	0	0	0	0	0	0	-1.51	-1.5	1	1	0	1200	1200	0
9/5/2024 21:35	44801	EDAN_T2	333	349	16	0.71	0.74	0.03	0	0	0	0	0	0	0	0
9/5/2024 21:35	53902	HALI_T2	1	1	0	5.1	5.4	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:35	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:35	14202	EALL_T2	2	2	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/5/2024 21:35	47001	HUGH_T2	5	16	11	5.58	1.96	-3.62	-0.74	-0.75	0	0	0	0	0	0
9/5/2024 21:35	53901	HALI_T2	2	1	-1	0.6	1	0.4	-1.19	-1.18	0	0	0	0	0	0
9/5/2024 21:35	57401	SPAN_T1	2	2	0	1.1	1.4	0.3	0	-0.5	2	2	0	1200	1200	0
9/5/2024 21:35	29201	APPE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:35	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
9/5/2024 21:35	52403	GRPA_T2	40	71	31	0.43	0.74	0.31	-0.17	-0.2	0	0	0	0	0	0
9/5/2024 21:35	29202	APPE_T1	109	139	30	0.31	0.41	0.1	0	0	0	0	0	0	0	0
9/5/2024 21:35	67804	WLAN_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
9/5/2024 21:35	52402	GRPA_T2	4	4	0	0.63	0.8	0.17	0	0	0	0	0	0	0	0
9/5/2024 21:35	46001	BERW_T1	0	0	0	0	0	0	0.75	0.7	0	0	0	0	0	0
9/5/2024 21:36	63501	HEID_TBK1-2	29	56	27	0.43	0.39	-0.04	-0.44	0.55	1	1	0	900	900	0
9/5/2024 21:36	64201	KINZ_T1	5	1	-4	0.48	1	0.52	-0.71	-0.57	3	3	0	1500	1500	0
9/5/2024 21:36	63306	GREE_T1	0	0	0	0	0	0	-1.42	-1.44	1	1	0	900	900	0
9/5/2024 21:36	46504	LOHA_T1	2	36	34	0.9	0.27	-0.63	0	0	0	0	0	0	0	0
9/5/2024 21:36	44904	SCOT_T1	0	0	0	0	0	0	0.75	0.72	0	0	0	0	0	0
9/5/2024 21:36	45501	DERR_T2	0	0	0	0	0	0	-0.31	-0.19	2	2	0	1800	1800	0
9/5/2024 21:36	45901	AUBU_T1	329	485	156	0.54	0.73	0.19	0	0	0	0	0	0	0	0
9/5/2024 21:36	46506	LOHA_T1	3	3	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
9/5/2024 21:36	45902	AUBU_T1	482	724	242	0.5	0.83	0.33	-0.44	-0.48	0	0	0	0	0	0
9/5/2024 21:36	65601	QVIL_T2	0	0	0	0	0	0	-0.94	-0.97	1	1	0	900	900	0
9/5/2024 21:36	42802	SELI_T1	1	1	0	0.3	0.8	0.5	-1.29	-0.34	1	1	0	900	900	0
9/5/2024 21:36	40201	BEGA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/5/2024 21:36	63203	MGTN_T1	0	0	0	0	0	0	-0.76	-0.8	2	2	0	1200	1200	0
9/5/2024 21:36	16103	BING_T2	0	0	0	0	0	0	-1.28	-1.3	1	1	0	900	900	0
9/5/2024 21:36	64204	KINZ_T1	9	1	-8	0.24	1.2	0.96	0	0	0	0	0	0	0	0
9/5/2024 21:36	29402	BELT_T1	1	1	0	7.3	7.9	0.6	0	0	0	0	0	0	0	0
9/5/2024 21:36	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:36	45602	WOOL_T1	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
9/5/2024 21:36	63305	GREE_T1	13	15	2	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
9/5/2024 21:36	53901	HALI_T2	2	1	-1	0.6	1	0.4	-2.38	-2.36	0	0	0	0	0	0
9/5/2024 21:36	53501	EVIL_T2	2	2	0	0.65	0.9	0.25	-0.02	-0.02	3	3	0	1800	1800	0
9/5/2024 21:36	20403	ASHF_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
9/5/2024 21:36	12701	MACU_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
9/5/2024 21:36	53903	HALI_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:36	67503	WEWI_T2	1	1	0	8	8.4	0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/5/2024 21:36	67502	WEWI_T2	32	18	-14	0.13	0.17	0.04	-2.65	-2.66	2	2	0	1800	1800	0
9/5/2024 21:36	64202	KINZ_T1	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/5/2024 21:36	59301	MCAL_T1	2	2	0	1.35	1.6	0.25	-1.08	-1.09	0	0	0	0	0	0
9/5/2024 21:36	16002	DORN_T2	0	0	0	0	0	0	-0.53	-0.54	1	1	0	1200	1200	0
9/5/2024 21:36	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:36	61202	REIN_T1	13	0	-13	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:36	66502	SMAN_T2	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
9/5/2024 21:36	44802	EDAN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:36	13005	NBET_T2	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
9/5/2024 21:36	46004	BERW_T2	0	0	0	0	0	0	-0.61	-0.66	0	0	0	0	0	0
9/5/2024 21:36	16102	BING_T2	13	18	5	0.43	0.46	0.03	0	0	0	0	0	0	0	0
9/5/2024 21:36	66505	SMAN_T2	3	3	0	0.43	0.87	0.44	0	0	0	0	0	0	0	0
9/5/2024 21:36	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:36	62601	ENGL_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
9/5/2024 21:36	14404	SSLA_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
9/5/2024 21:36	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 21:36	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/5/2024 21:36	41305	FISH_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
9/5/2024 21:36	48902	FOSP_T2	0	0	0	0	0	0	0.15	0.02	0	0	0	0	0	0
9/5/2024 21:36	67805	WLAN_T1	16	58	42	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/5/2024 21:36	20401	ASHF_T2	2	4	2	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
9/5/2024 21:36	46302	ROHR_T1	4	4	0	1.2	1.43	0.23	0.16	0.16	0	0	0	0	0	0
9/5/2024 21:36	65604	QVIL_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
9/5/2024 21:36	41301	FISH_T1	2	2	0	1.1	1.35	0.25	0	0	0	0	0	0	0	0
9/5/2024 21:36	40902	JESH_T1	1	9	8	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/5/2024 21:36	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/5/2024 21:36	48901	FOSP_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
9/5/2024 21:36	44801	EDAN_T2	333	349	16	0.71	0.74	0.03	-1.6	-1.62	0	0	0	0	0	0
9/5/2024 21:36	29401	BELT_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
9/5/2024 21:36	67803	WLAN_T1	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
9/5/2024 21:36	46301	ROHR_T1	1	1	0	6	6.3	0.3	0.18	0.17	0	0	0	0	0	0
9/5/2024 21:36	13701	SCHN_T2	0	0	0	0	0	0	0.11	0.06	1	1	0	600	600	0
9/5/2024 21:36	59302	MCAL_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
9/5/2024 21:36	64902	MILL_T2	0	0	0	0	0	0	-0.47	-0.51	1	1	0	900	900	0
9/5/2024 21:36	61001	DONV_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
9/5/2024 21:36	46501	LOHA_T1	0	0	0	0	0	0	0.19	0.16	1	1	0	1200	1200	0
9/5/2024 21:36	53902	HALI_T2	1	1	0	5.1	5.4	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:37	67502	WEWI_T2	32	18	-14	0.13	0.17	0.04	0	0	0	0	0	0	0	0
9/5/2024 21:37	67402	WAKE_T2	0	0	0	0	0	0	-0.33	-0.35	1	1	0	600	600	0
9/5/2024 21:37	53502	EVIL_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
9/5/2024 21:37	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:37	40902	JESH_T1	1	9	8	0.1	0.11	0.01	-0.71	-0.72	0	0	0	0	0	0
9/5/2024 21:37	64801	MONE_T2	1	1	0	0.4	0.3	0	0	0	0	0	0	0	0	0
9/5/2024 21:37	46101	MACI_T2	0	0	0	0	0	0	1.33	1.31	0	0	0	0	0	0
9/5/2024 21:37	45702	LIND_T2	0	1	1	0	0.2	0.2	-0.47	-0.45	0	0	0	0	0	0
9/5/2024 21:37	42902	MIDD_T2	0	0	0	0	0	0	-0.27	-0.43	0	0	0	0	0	0
9/5/2024 21:37	67503	WEWI_T2	1	1	0	8	8.4	0.4	0.03	0.02	0	0	0	0	0	0
9/5/2024 21:37	53501	EVIL_T2	2	2	0	0.65	0.9	0.25	-0.01	-0.01	1	1	0	600	600	0
9/5/2024 21:37	47403	PENS_T1	4	32	28	0.13	0.19	0.06	0	0	0	0	0	0	0	0
9/5/2024 21:37	59202	THOM_T1	4	35	31	0.15	0.19	0.04	0	0	0	0	0	0	0	0
9/5/2024 21:37	23901	ERMO_T2	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
9/5/2024 21:37	64503	LAVI_T1	0	1	1	0	0.1	0.1	-5.15	-4.83	3	3	0	3600	3600	0
9/5/2024 21:37	41901	REED_T1	2	6	4	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
9/5/2024 21:37	42503	ALTA_T2	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
9/5/2024 21:37	64201	KINZ_T1	5	1	-4	0.48	1	0.52	0	0	0	0	0	0	0	0
9/5/2024 21:37	43103	SMIL_T2	18	22	4	0.44	0.64	0.2	0	0	0	0	0	0	0	0
9/5/2024 21:37	43105	SMIL_T2	24	27	3	0.3	0.38	0.08	0	0	0	0	0	0	0	0
9/5/2024 21:37	51306	WIND_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
9/5/2024 21:37	41902	REED_T1	0	0	0	0	0	0	1.13	1.07	0	0	0	0	0	0
9/5/2024 21:37	44201	POIN_T1	58	69	11	0.18	0.19	0.01	-1.73	-1.79	2	2	0	2100	2100	0
9/5/2024 21:37	64802	MONE_T2	1	0	-1	0.1	0	-0.1	0.28	0.27	0	0	0	0	0	0
9/5/2024 21:37	15001	BLMO_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/5/2024 21:37	43402	BENT_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
9/5/2024 21:37	59201	THOM_T1	2	7	5	0.1	0.25	0.15	0	0	0	0	0	0	0	0
9/5/2024 21:37	64204	KINZ_T1	9	1	-8	0.24	1.2	0.96	0	0	0	0	0	0	0	0
9/5/2024 21:37	65205	PRIN_T1	1	2	1	2	1.1	-0.9	0	0	0	0	0	0	0	0
9/5/2024 21:37	15203	SFAR_T2	0	0	0	0	0	0	-1.01	-1.07	0	0	0	0	0	0
9/5/2024 21:37	43102	SMIL_T2	6	8	2	0.67	0.55	-0.12	0	0	0	0	0	0	0	0
9/5/2024 21:37	47401	PENS_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
9/5/2024 21:37	10801	CHHI_T1	0	0	0	0	0	0	-0.66	-0.7	1	1	0	900	900	0
9/5/2024 21:37	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	-0.68	-0.37	0	0	0	0	0	0
9/5/2024 21:37	14403	SSLA_T1	0	0	0	0	0	0	0.73	0.68	0	0	0	0	0	0
9/5/2024 21:37	64202	KINZ_T1	3	3	0	0.7	0.7	0	0.97	0.93	0	0	0	0	0	0
9/5/2024 21:37	42903	MIDD_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/5/2024 21:37	40101	HUNT_T2	0	0	0	0	0	0	-0.84	-0.88	0	0	0	0	0	0
9/5/2024 21:37	54204	PENN_T2	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
9/5/2024 21:37	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:37	54202	PENN_T2	0	0	0	0	0	0	-0.51	-0.24	0	0	0	0	0	0
9/5/2024 21:37	51304	WIND_T2	0	0	0	0	0	0	-0.11	-0.14	0	0	0	0	0	0
9/5/2024 21:37	54206	PENN_T2	1	2	1	0.1	0.1	0	0.07	0.08	0	0	0	0	0	0
9/5/2024 21:37	67605	WARW_T1	19	28	9	0.48	0.56	0.08	-2.13	-2.25	0	0	0	0	0	0
9/5/2024 21:37	42802	SELI_T1	1	1	0	0.3	0.8	0.5	-1.29	-0.34	1	0	-1	900	0	-900
9/5/2024 21:37	43108	SMIL_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
9/5/2024 21:37	43101	SMIL_T2	0	0	0	0	0	0	-0.62	-0.67	0	0	0	0	0	0
9/5/2024 21:38	20603	GRWO_T2	12	92	80	0.13	0.22	0.09	-0.64	-0.61	1	1	0	900	900	0
9/5/2024 21:38	44802	EDAN_T2	1	1	0	0.3	0.2	-0.1	-0.59	-0.63	0	0	0	0	0	0
9/5/2024 21:38	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:38	47401	PENS_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
9/5/2024 21:38	40701	FFLD_T1	13	27	14	0.15	0.26	0.11	0	0	0	0	0	0	0	0
9/5/2024 21:38	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:38	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:38	40702	FFLD_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
9/5/2024 21:38	59201	THOM_T1	2	7	5	0.1	0.25	0.15	0	0	0	0	0	0	0	0
9/5/2024 21:38	52501	PROG_T1	0	0	0	0	0	0	-0.03	-0.04	1	1	0	300	300	0
9/5/2024 21:38	53901	HALI_T2	2	1	-1	0.6	1	0.4	-1.18	-1.2	0	0	0	0	0	0
9/5/2024 21:38	13704	SCHN_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
9/5/2024 21:38	55001	NEWP_T1	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
9/5/2024 21:38	40703	FFLD_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/5/2024 21:38	63602	LETO_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
9/5/2024 21:38	53902	HALI_T2	1	1	0	5.1	5.4	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:38	44801	EDAN_T2	333	349	16	0.71	0.74	0.03	-3.2	-3.24	0	0	0	0	0	0
9/5/2024 21:38	14405	SWHI_T1	0	0	0	0	0	0	1.29	1.27	1	1	0	1200	1200	0
9/5/2024 21:38	63501	HEID_TBK1-2	29	56	27	0.43	0.39	-0.04	-0.44	0.55	1	0	-1	900	0	-900
9/5/2024 21:38	57403	SPAN_T1	0	6	6	0	0.15	0.15	0.12	0.07	0	0	0	0	0	0
9/5/2024 21:38	67203	TEHI_T1	0	0	0	0	0	0	2.34	2.41	2	2	0	1500	1500	0
9/5/2024 21:38	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 21:38	42903	MIDD_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/5/2024 21:38	47403	PENS_T1	4	32	28	0.13	0.19	0.06	0	0	0	0	0	0	0	0
9/5/2024 21:38	59202	THOM_T1	4	35	31	0.15	0.19	0.04	0	0	0	0	0	0	0	0
9/5/2024 21:38	20403	ASHF_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
9/5/2024 21:38	20601	GRWO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:38	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:38	66505	SMAN_T2	3	3	0	0.43	0.87	0.44	0	0	0	0	0	0	0	0
9/5/2024 21:38	20401	ASHF_T2	2	4	2	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
9/5/2024 21:38	67605	WARW_T1	19	28	9	0.48	0.56	0.08	-1.07	-1.12	0	0	0	0	0	0
9/5/2024 21:38	53903	HALI_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:38	53501	EVIL_T2	2	2	0	0.65	0.9	0.25	-0.01	-0.01	1	1	0	600	600	0
9/5/2024 21:38	57401	SPAN_T1	2	2	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:38	45402	WILO_T2	71	85	14	0.5	0.48	-0.02	-1.18	-1.21	1	1	0	900	900	0
9/5/2024 21:38	12001	HATF_T1	0	0	0	0	0	0	1.28	0.99	1	1	0	600	600	0
9/5/2024 21:38	12006	HATF_T1	0	0	0	0	0	0	0.44	0.45	1	1	0	1200	1200	0
9/5/2024 21:38	55002	NEWP_T1	5	5	0	0.6	0.86	0.26	0	0	0	0	0	0	0	0
9/5/2024 21:38	44301	BEAV_T2	0	0	0	0	0	0	0.34	0.31	2	2	0	1200	1200	0
9/5/2024 21:38	67505	WEWI_T1	0	0	0	0	0	0	0.06	0.01	1	1	0	900	900	0
9/5/2024 21:38	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:39	47104	MARL_T1	0	0	0	0	0	0	-0.84	-0.87	0	0	0	0	0	0
9/5/2024 21:39	48901	FOSP_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
9/5/2024 21:39	43201	MVIL_T2	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
9/5/2024 21:39	67703	WERN_T2	0	0	0	0	0	0	-0.73	-0.72	1	1	0	900	900	0
9/5/2024 21:39	61803	EELI_T2	0	0	0	0	0	0	0.22	0.2	1	1	0	600	600	0
9/5/2024 21:39	52403	GRPA_T2	40	71	31	0.43	0.74	0.31	0	0	0	0	0	0	0	0
9/5/2024 21:39	43103	SMIL_T2	18	22	4	0.44	0.64	0.2	0	0	0	0	0	0	0	0
9/5/2024 21:39	65502	MOJO_T2	126	313	187	0.13	0.25	0.12	0	0	0	0	0	0	0	0
9/5/2024 21:39	10805	CHHI_T2	1	1	0	7.4	7.3	-0.1	-0.77	-0.83	1	1	0	600	600	0
9/5/2024 21:39	47101	MARL_T1	2	1	-1	1.55	0.8	-0.75	0	0	0	0	0	0	0	0
9/5/2024 21:39	43108	SMIL_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
9/5/2024 21:39	47403	PENS_T1	4	32	28	0.13	0.19	0.06	0	0	0	0	0	0	0	0
9/5/2024 21:39	43105	SMIL_T2	24	27	3	0.3	0.38	0.08	0	0	0	0	0	0	0	0
9/5/2024 21:39	43202	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:39	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 21:39	53903	HALI_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:39	65702	RVIL_T2	0	0	0	0	0	0	-0.87	-0.86	1	1	0	600	600	0
9/5/2024 21:39	13002	NBET_T2	0	0	0	0	0	0	-1.55	-1.55	2	2	0	2400	2400	0
9/5/2024 21:39	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:39	53901	HALI_T2	2	1	-1	0.6	1	0.4	-1.18	-1.2	0	0	0	0	0	0
9/5/2024 21:39	47401	PENS_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
9/5/2024 21:39	11104	EGYP_T1	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
9/5/2024 21:39	48301	ORWI_T1	2	2	0	5.25	5.6	0.35	-0.51	-0.51	1	1	0	900	900	0
9/5/2024 21:39	46004	BERW_T2	0	0	0	0	0	0	-0.3	-0.33	0	0	0	0	0	0
9/5/2024 21:39	53902	HALI_T2	1	1	0	5.1	5.4	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:39	52401	GRPA_T2	0	1	1	0	0.3	0.3	-0.33	-0.34	0	0	0	0	0	0
9/5/2024 21:39	52402	GRPA_T2	4	4	0	0.63	0.8	0.17	0	0	0	0	0	0	0	0
9/5/2024 21:39	43102	SMIL_T2	6	8	2	0.67	0.55	-0.12	0	0	0	0	0	0	0	0
9/5/2024 21:39	65503	MOJO_T2	1	53	52	0.1	0.13	0.03	-0.07	-0.15	0	0	0	0	0	0
9/5/2024 21:39	13503	MCMI_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
9/5/2024 21:39	59101	WALK_T2	1	1	0	3.4	1.3	-2.1	1.03	1.1	1	1	0	600	600	0
9/5/2024 21:39	43106	SMIL_T2	0	0	0	0	0	0	-0.34	-0.39	1	1	0	1200	1200	0
9/5/2024 21:39	45502	DERR_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
9/5/2024 21:40	21704	SUBU_T1	0	0	0	0	0	0	-2.49	-2.46	2	2	0	2400	2400	0
9/5/2024 21:40	67605	WARW_T1	19	28	9	0.48	0.56	0.08	-1.07	-1.12	0	0	0	0	0	0
9/5/2024 21:40	56504	ROCK_T2	0	0	0	0	0	0	-0.24	-0.28	0	0	0	0	0	0
9/5/2024 21:40	40502	CRES_T2	0	13	13	0	0.34	0.34	-1.37	-1.4	0	0	0	0	0	0
9/5/2024 21:40	41901	REED_T1	2	6	4	0.2	0.18	-0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/5/2024 21:40	23001	SAJO_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
9/5/2024 21:40	59101	WALK_T2	1	1	0	3.4	1.3	-2.1	1.03	1.1	1	1	0	600	600	0
9/5/2024 21:40	12807	MICK_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:40	24204	PROV_T3	2	2	0	2.8	2.85	0.05	0	0	0	0	0	0	0	0
9/5/2024 21:40	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 21:40	46102	MACJ_T1	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
9/5/2024 21:40	44801	EDAN_T2	333	349	16	0.71	0.74	0.03	0	0	0	0	0	0	0	0
9/5/2024 21:40	46001	BERW_T1	0	0	0	0	0	0	0.7	0.74	0	0	0	0	0	0
9/5/2024 21:40	59003	MIFF_T1	0	1	1	0	0.3	0.3	0.51	0.45	0	0	0	0	0	0
9/5/2024 21:40	24201	PROV_T3	6	14	8	1.15	0.58	-0.57	-1.31	-1.32	1	1	0	1200	1200	0
9/5/2024 21:40	59002	MIFF_T1	5	5	0	0.36	0.82	0.46	0	0	0	0	0	0	0	0
9/5/2024 21:40	41902	REED_T1	0	0	0	0	0	0	1.13	1.07	0	0	0	0	0	0
9/5/2024 21:40	45802	HEGI_T2	27	27	0	0.56	0.51	-0.05	0.71	0.86	0	0	0	0	0	0
9/5/2024 21:40	44802	EDAN_T2	1	1	0	0.3	0.2	-0.1	-0.59	-0.63	0	0	0	0	0	0
9/5/2024 21:40	21701	SUBU_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:40	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:40	21705	SUBU_T1	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
9/5/2024 21:40	42802	SELI_T1	1	1	0	0.3	0.8	0.5	-1.29	-0.34	1	0	-1	900	0	-900
9/5/2024 21:40	44301	BEAV_T2	0	0	0	0	0	0	0.17	0.16	1	1	0	600	600	0
9/5/2024 21:40	67201	TEHI_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
9/5/2024 21:40	56501	ROCK_T2	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
9/5/2024 21:40	12802	MICK_T1	0	0	0	0	0	0	-1.16	-1.14	0	0	0	0	0	0
9/5/2024 21:40	43402	BENT_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
9/5/2024 21:40	40802	EXCH_T2	15	43	28	0.11	0.12	0.01	0	0	0	0	0	0	0	0
9/5/2024 21:41	43103	SMIL_T2	18	22	4	0.44	0.64	0.2	0	0	0	0	0	0	0	0
9/5/2024 21:41	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:41	43801	SWIL_T1	34	28	-6	0.39	0.41	0.02	0	0	0	0	0	0	0	0
9/5/2024 21:41	40101	HUNT_T2	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
9/5/2024 21:41	46401	FLEM_T2	863	973	110	0.73	0.97	0.24	-0.29	-0.3	0	0	0	0	0	0
9/5/2024 21:41	51301	WIND_T1	0	0	0	0	0	0	-0.18	-0.22	0	0	0	0	0	0
9/5/2024 21:41	64802	MONE_T2	1	0	-1	0.1	0	-0.1	0.28	0.27	0	0	0	0	0	0
9/5/2024 21:41	65901	SAKR_T2	1	1	0	8.7	8	-0.7	0	0	0	0	0	0	0	0
9/5/2024 21:41	54206	PENN_T2	1	2	1	0.1	0.1	0	0.07	0.08	0	0	0	0	0	0
9/5/2024 21:41	65904	SAKR_T2	0	0	0	0	0	0	-1.78	-1.79	2	2	0	900	900	0
9/5/2024 21:41	57403	SPAN_T1	0	6	6	0	0.15	0.15	0.12	0.07	0	0	0	0	0	0
9/5/2024 21:41	43102	SMIL_T2	6	8	2	0.67	0.55	-0.12	0	0	0	0	0	0	0	0
9/5/2024 21:41	11301	EMMA_T1	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
9/5/2024 21:41	43106	SMIL_T2	0	0	0	0	0	0	-0.34	-0.39	1	1	0	1200	1200	0
9/5/2024 21:41	52004	LING_T2	2	2	0	6.35	6.4	0.05	0	0	0	0	0	0	0	0
9/5/2024 21:41	41902	REED_T1	0	0	0	0	0	0	1.13	1.07	0	0	0	0	0	0
9/5/2024 21:41	58102	NEKI_T1	1	1	0	1.6	1.8	0.2	-0.64	-0.77	1	1	0	1200	1200	0
9/5/2024 21:41	41901	REED_T1	2	6	4	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
9/5/2024 21:41	55405	SHER_T1	11	11	0	0.5	0.65	0.15	-0.17	-0.17	0	0	0	0	0	0
9/5/2024 21:41	64801	MONE_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:41	43802	SWIL_T1	0	0	0	0	0	0	0.04	0.01	1	1	0	600	600	0
9/5/2024 21:41	44801	EDAN_T2	333	349	16	0.71	0.74	0.03	-1.6	-1.62	0	0	0	0	0	0
9/5/2024 21:41	43105	SMIL_T2	24	27	3	0.3	0.38	0.08	0	0	0	0	0	0	0	0
9/5/2024 21:41	45402	WBLO_T2	71	85	14	0.5	0.48	-0.02	-2.35	-2.41	2	2	0	1800	1800	0
9/5/2024 21:41	42903	MIDD_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/5/2024 21:41	61502	EPET_T1	0	0	0	0	0	0	-0.73	-0.8	0	0	0	0	0	0
9/5/2024 21:41	52002	LING_T2	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
9/5/2024 21:41	54204	PENN_T2	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
9/5/2024 21:41	15001	BLMO_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/5/2024 21:41	43108	SMIL_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
9/5/2024 21:41	57205	ROSS_T1	0	0	0	0	0	0	0.27	0.22	0	0	0	0	0	0
9/5/2024 21:41	63302	GREE_T1	0	0	0	0	0	0	0.4	0.34	0	0	0	0	0	0
9/5/2024 21:41	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:41	44802	EDAN_T2	1	1	0	0.3	0.2	-0.1	-0.59	-0.63	0	0	0	0	0	0
9/5/2024 21:41	46402	FLEM_T2	1062	1211	149	0.69	0.99	0.3	-0.35	-0.36	0	0	0	0	0	0
9/5/2024 21:41	42902	MIDD_T2	0	0	0	0	0	0	-0.27	-0.43	0	0	0	0	0	0
9/5/2024 21:41	66703	STRA_T1	1	5	4	0.1	0.24	0.14	-0.2	-0.2	0	0	0	0	0	0
9/5/2024 21:41	40801	EXCH_T2	4	4	0	0.4	0.43	0.03	-0.39	0.89	1	0	-1	1200	0	-1200
9/5/2024 21:41	53501	EVIL_T2	2	2	0	0.65	0.9	0.25	-0.01	-0.01	2	2	0	1200	1200	0
9/5/2024 21:41	63305	GREE_T1	13	15	2	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
9/5/2024 21:41	63501	HEID_TBK1-2	29	56	27	0.43	0.39	-0.04	-0.44	0.55	1	0	-1	900	0	-900
9/5/2024 21:41	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 21:41	52403	GRPA_T2	40	71	31	0.43	0.74	0.31	0	0	0	0	0	0	0	0
9/5/2024 21:41	52006	LING_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
9/5/2024 21:41	57401	SPAN_T1	2	2	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:41	52402	GRPA_T2	4	4	0	0.63	0.8	0.17	-0.7	-0.75	0	0	0	0	0	0
9/5/2024 21:42	64305	LINC_T1	0	0	0	0	0	0	-0.39	-0.57	0	0	0	0	0	0
9/5/2024 21:42	52006	LING_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
9/5/2024 21:42	13704	SCHN_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
9/5/2024 21:42	40902	JESH_T1	1	9	8	0.1	0.11	0.01	-1.42	-1.43	0	0	0	0	0	0
9/5/2024 21:42	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/5/2024 21:42	55101	WERT_T1	0	0	0	0	0	0	-1.25	-1.29	2	2	0	1500	1500	0
9/5/2024 21:42	56501	ROCK_T2	2	2	0	0.4	0.35	-0.05	0.19	0.19	0	0	0	0	0	0
9/5/2024 21:42	64202	KINZ_T1	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/5/2024 21:42	45802	HEGI_T2	27	27	0	0.56	0.51	-0.05	0.71	0.86	0	0	0	0	0	0
9/5/2024 21:42	49803	UNIV_T1	1	1	0	5.9	5.8	-0.1	-1.02	-0.98	0	0	0	0	0	0
9/5/2024 21:42	53902	HALI_T2	1	1	0	5.1	5.4	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:42	65601	QVIL_T2	0	0	0	0	0	0	-0.94	-0.97	1	1	0	900	900	0
9/5/2024 21:42	63501	HEID_TBK1-2	29	56	27	0.43	0.39	-0.04	-0.44	0.55	1	0	-1	900	0	-900
9/5/2024 21:42	64201	KINZ_T1	5	1	-4	0.48	1	0.52	0	0	0	0	0	0	0	0
9/5/2024 21:42	46001	BERW_T1	0	0	0	0	0	0	0.7	0.74	0	0	0	0	0	0
9/5/2024 21:42	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 21:42	53901	HALI_T2	2	1	-1	0.6	1	0.4	-2.36	-2.4	0	0	0	0	0	0
9/5/2024 21:42	12701	MACU_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
9/5/2024 21:42	57401	SPAN_T1	2	2	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:42	52004	LING_T2	2	2	0	6.35	6.4	0.05	0.19	0.2	0	0	0	0	0	0
9/5/2024 21:42	58401	MORO_T1	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
9/5/2024 21:42	41901	REED_T1	2	6	4	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
9/5/2024 21:42	64503	LAVI_T1	0	1	1	0	0.1	0.1	-1.72	-1.61	1	1	0	1200	1200	0
9/5/2024 21:42	57403	SPAN_T1	0	6	6	0	0.15	0.15	0.12	0.07	0	0	0	0	0	0
9/5/2024 21:42	67401	WAKE_T2	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
9/5/2024 21:42	21206	ECAR_T2	1	1	0	7.4	7.7	0.3	0.28	0.27	0	0	0	0	0	0
9/5/2024 21:42	51202	MTON_T2	0	0	0	0	0	0	-1.02	-1.03	1	1	0	1200	1200	0
9/5/2024 21:42	42802	SELI_T1	1	1	0	0.3	0.8	0.5	-1.29	-0.34	1	0	-1	900	0	-900
9/5/2024 21:42	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:42	55001	NEWP_T1	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
9/5/2024 21:42	64204	KINZ_T1	9	1	-8	0.24	1.2	0.96	0	0	0	0	0	0	0	0
9/5/2024 21:42	53903	HALI_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:42	13502	MCMI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:42	59101	WALK_T2	1	1	0	3.4	1.3	-2.1	1.03	1.1	1	1	0	600	600	0
9/5/2024 21:42	53501	EVIL_T2	2	2	0	0.65	0.9	0.25	-0.01	-0.01	1	1	0	600	600	0
9/5/2024 21:42	55002	NEWP_T1	5	5	0	0.6	0.86	0.26	-0.23	-0.24	0	0	0	0	0	0
9/5/2024 21:42	43402	BENT_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
9/5/2024 21:42	64203	KINZ_T1	0	0	0	0	0	0	0.02	0	1	1	0	600	600	0
9/5/2024 21:43	47502	NECO_T1	1	3	2	1	0.4	-0.6	0.8	0.73	0	0	0	0	0	0
9/5/2024 21:43	42903	MIDD_T2	2	2	0	0.4	0.5	0.1	0.08	0.04	0	0	0	0	0	0
9/5/2024 21:43	58402	MORO_T1	0	0	0	0	0	0	-0.17	0.35	2	1	-1	1500	900	-600
9/5/2024 21:43	53802	MBRG_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
9/5/2024 21:43	42802	SELI_T1	1	1	0	0.3	0.8	0.5	-1.29	-0.34	1	0	-1	900	0	-900
9/5/2024 21:43	46504	LOHA_T1	2	36	34	0.9	0.27	-0.63	0	0	0	0	0	0	0	0
9/5/2024 21:43	41902	REED_T1	0	0	0	0	0	0	1.13	1.07	0	0	0	0	0	0
9/5/2024 21:43	65503	MOJO_T2	1	53	52	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/5/2024 21:43	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 21:43	63602	LETO_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
9/5/2024 21:43	41901	REED_T1	2	6	4	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
9/5/2024 21:43	42902	MIDD_T2	0	0	0	0	0	0	-0.27	-0.43	0	0	0	0	0	0
9/5/2024 21:43	67605	WARW_T1	19	28	9	0.48	0.56	0.08	-1.07	-1.12	0	0	0	0	0	0
9/5/2024 21:43	65502	MOJO_T2	126	313	187	0.13	0.25	0.12	-1.47	-1.6	1	1	0	900	900	0
9/5/2024 21:43	42201	SHEN_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
9/5/2024 21:43	64503	LAVI_T1	0	1	1	0	0.1	0.1	-1.72	-1.61	1	1	0	1200	1200	0
9/5/2024 21:43	46501	LOHA_T1	0	0	0	0	0	0	0.19	0.16	1	1	0	1200	1200	0
9/5/2024 21:43	46506	LOHA_T1	3	3	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
9/5/2024 21:43	60101	COCA_T1	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
9/5/2024 21:44	41901	REED_T1	2	6	4	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
9/5/2024 21:44	42903	MIDD_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/5/2024 21:44	49803	UNIV_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:44	58202	NEWV_T1	0	0	0	0	0	0	0.31	0.25	0	0	0	0	0	0
9/5/2024 21:44	53902	HALI_T2	1	1	0	5.1	5.4	0.3	-0.15	-0.2	0	0	0	0	0	0
9/5/2024 21:44	21501	CEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/5/2024 21:44	49804	UNIV_T1	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
9/5/2024 21:44	53601	DALM_T2	1	1	0	0.8	0.3	-0.5	0.17	0.23	0	0	0	0	0	0
9/5/2024 21:44	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/5/2024 21:44	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:44	52402	GRPA_T2	4	4	0	0.63	0.8	0.17	-0.7	-0.75	0	0	0	0	0	0
9/5/2024 21:44	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:44	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:44	52403	GRPA_T2	40	71	31	0.43	0.74	0.31	0	0	0	0	0	0	0	0
9/5/2024 21:44	42802	SELI_T1	1	1	0	0.3	0.8	0.5	-2.58	-0.67	2	0	-2	1800	0	-1800
9/5/2024 21:44	41902	REED_T1	0	0	0	0	0	0	1.13	1.07	0	0	0	0	0	0
9/5/2024 21:44	53903	HALI_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:44	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:44	53901	HALI_T2	2	1	-1	0.6	1	0.4	-1.18	-1.2	0	0	0	0	0	0
9/5/2024 21:44	42902	MIDD_T2	0	0	0	0	0	0	-0.27	-0.43	0	0	0	0	0	0
9/5/2024 21:44	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:45	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:45	41001	LAUR_T2	77	76	-1	0.51	0.3	-0.21	0	0	0	0	0	0	0	0
9/5/2024 21:45	52403	GRPA_T2	34	71	37	0.39	0.74	0.35	0	0	0	0	0	0	0	0
9/5/2024 21:45	53501	EVIL_T2	2	2	0	0.8	1	0.2	-0.01	-0.01	1	1	0	600	600	0
9/5/2024 21:45	43108	SMIL_T2	2	3	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:45	55405	SHER_T1	11	11	0	0.53	0.64	0.11	-0.17	-0.17	0	0	0	0	0	0
9/5/2024 21:45	55001	NEWP_T1	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
9/5/2024 21:45	52402	GRPA_T2	3	4	1	0.8	0.8	0	-0.7	-0.75	0	0	0	0	0	0
9/5/2024 21:45	55002	NEWP_T1	4	5	1	0.75	0.86	0.11	0	0	0	0	0	0	0	0
9/5/2024 21:45	43102	SMIL_T2	6	8	2	0.45	0.55	0.1	-0.29	-0.26	0	0	0	0	0	0
9/5/2024 21:45	40201	BEGA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/5/2024 21:45	65503	MOJO_T2	5	53	48	0.12	0.13	0.01	0	0	0	0	0	0	0	0
9/5/2024 21:45	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:45	65502	MOJO_T2	239	310	71	0.18	0.26	0.08	-1.47	-1.6	1	1	0	900	900	0
9/5/2024 21:45	43103	SMIL_T2	19	22	3	0.43	0.64	0.21	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/5/2024 21:45	41002	LAUR_T2	42	45	3	0.41	0.3	-0.11	0.07	0.07	0	0	0	0	0	0
9/5/2024 21:45	42201	SHEN_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
9/5/2024 21:45	57401	SPAN_T1	2	2	0	1.05	1.4	0.35	-0.25	-0.26	1	1	0	600	600	0
9/5/2024 21:45	57403	SPAN_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
9/5/2024 21:45	43105	SMIL_T2	24	27	3	0.3	0.38	0.08	0	0	0	0	0	0	0	0
9/5/2024 21:46	46401	FLEM_T2	927	987	60	0.84	1.11	0.27	0	0	0	0	0	0	0	0
9/5/2024 21:46	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:46	51306	WIND_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
9/5/2024 21:46	57401	SPAN_T1	2	2	0	1.05	1.4	0.35	-0.25	-0.26	1	1	0	600	600	0
9/5/2024 21:46	57403	SPAN_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
9/5/2024 21:46	40101	HUNT_T2	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
9/5/2024 21:46	46402	FLEM_T2	1165	1248	83	0.79	1.21	0.42	-0.35	-0.36	0	0	0	0	0	0
9/5/2024 21:46	47401	PENS_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
9/5/2024 21:46	47403	PENS_T1	29	28	-1	0.18	0.19	0.01	0	0	0	0	0	0	0	0
9/5/2024 21:47	59101	WALK_T2	1	1	0	2.8	1.3	-1.5	1.03	1.1	1	1	0	600	600	0
9/5/2024 21:47	52402	GRPA_T2	3	4	1	0.8	0.8	0	0	0	0	0	0	0	0	0
9/5/2024 21:47	46302	ROHR_T1	4	4	0	1.23	1.73	0.5	0.16	0.16	0	0	0	0	0	0
9/5/2024 21:47	53903	HALI_T2	2	2	0	1.1	1.2	0.1	-0.13	-0.1	0	0	0	0	0	0
9/5/2024 21:47	44301	BEAV_T2	0	0	0	0	0	0	0.17	0.16	1	1	0	600	600	0
9/5/2024 21:47	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:47	52403	GRPA_T2	34	71	37	0.39	0.74	0.35	-0.2	-0.22	0	0	0	0	0	0
9/5/2024 21:47	53902	HALI_T2	1	1	0	4.9	5.4	0.5	0	0	0	0	0	0	0	0
9/5/2024 21:47	66504	SMAN_T2	0	0	0	0	0	0	-0.33	-0.4	0	0	0	0	0	0
9/5/2024 21:47	66505	SMAN_T2	3	3	0	0.5	0.87	0.37	0	0	0	0	0	0	0	0
9/5/2024 21:47	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/5/2024 21:47	53901	HALI_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
9/5/2024 21:47	46301	ROHR_T1	1	1	0	6.1	6.6	0.5	0	0	0	0	0	0	0	0
9/5/2024 21:47	58401	MORO_T1	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
9/5/2024 21:47	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:47	55105	WERT_T1	0	0	0	0	0	0	-0.31	-0.35	1	1	0	900	900	0
9/5/2024 21:48	44301	BEAV_T2	0	0	0	0	0	0	0.17	0.16	1	1	0	600	600	0
9/5/2024 21:48	54204	PENN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/5/2024 21:48	53501	EVIL_T2	2	2	0	0.8	1	0.2	-0.01	-0.01	1	1	0	600	600	0
9/5/2024 21:48	54206	PENN_T2	2	0	-2	0.1	0	-0.1	0.07	0.08	0	0	0	0	0	0
9/5/2024 21:49	57006	WHHI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/5/2024 21:49	57004	WHHI_T2	0	0	0	0	0	0	-0.44	-0.48	0	0	0	0	0	0
9/5/2024 21:51	44802	EDAN_T2	1	103	102	0.2	0.11	-0.09	-0.63	-0.7	0	0	0	0	0	0
9/5/2024 21:51	44801	EDAN_T2	348	349	1	0.69	0.86	0.17	0	0	0	0	0	0	0	0
9/5/2024 21:55	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 21:57	47901	HEDG_T1	0	0	0	0	0	0	1.35	1.36	0	0	0	0	0	0
9/5/2024 22:03	10801	CHHI_T1	0	0	0	0	0	0	-0.7	-0.73	1	1	0	900	900	0
9/5/2024 22:09	29402	BELT_T1	1	1	0	7.9	8.6	0.7	0	0	0	0	0	0	0	0
9/5/2024 22:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
9/5/2024 22:11	44301	BEAV_T2	0	0	0	0	0	0	0.31	0.58	1	1	0	600	600	0
9/5/2024 22:30	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5/2024 22:55	40801	EXCH_T2	1	1	0	0.1	0.1	0	-0.46	-0.51	1	1	0	1200	1200	0
9/5/2024 23:07	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.54	0	0	0	0	0	0
9/5/2024 23:31	51204	MTON_T2	0	0	0	0	0	0	-1.37	-1.38	2	2	0	1500	1500	0
9/5/2024 23:43	52006	LING_T2	2	2	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
9/5/2024 23:43	52004	LING_T2	2	3	1	6.25	4.47	-1.78	0.11	0.09	0	0	0	0	0	0
9/5/2024 23:43	52002	LING_T2	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
9/6/2024 0:01	50107	HARR_T3	1	1	0	5.9	6.4	0.5	0	0	0	0	0	0	0	0
9/6/2024 0:01	50105	HARR_T3	6	6	0	6.25	6.67	0.42	0	0	0	0	0	0	0	0
9/6/2024 0:01	50102	HARR_T3	10	0	-10	0.17	0	-0.17	0	0	0	0	0	0	0	0
9/6/2024 0:01	50103	HARR_T3	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/6/2024 0:01	50201	HARR_T3	1	1	0	0.7	0.3	-0.4	-0.49	-0.49	1	1	0	1200	1200	0
9/6/2024 0:03	52502	PROG_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
9/6/2024 2:31	28102	TWLA_T2	14	15	1	1.06	1.05	-0.01	0.15	0.15	0	0	0	0	0	0
9/6/2024 7:23	67805	WLAN_T1	0	0	0	0	0	0	-0.91	-0.88	0	0	0	0	0	0
9/6/2024 7:23	67803	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 7:34	24201	PROV_T3	1	1	0	6.4	7.2	0.8	-1.51	-0.1	1	0	-1	1200	0	-1200
9/6/2024 7:34	24204	PROV_T3	1	1	0	6.9	6.5	-0.4	0	0	0	0	0	0	0	0
9/6/2024 7:52	49804	UNIV_T1	1	1	0	0.3	0.8	0.5	0.75	0.68	0	0	0	0	0	0
9/6/2024 7:52	49803	UNIV_T1	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0	0
9/6/2024 7:54	15703	TANN_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
9/6/2024 7:54	15702	TANN_T2	0	0	0	0	0	0	-0.48	-0.45	0	0	0	0	0	0
9/6/2024 7:55	60301	TWVA_T2	0	0	0	0	0	0	-3.2	-3.1	2	2	0	1800	1800	0
9/6/2024 8:02	12006	HATF_T1	0	0	0	0	0	0	-0.03	-0.05	2	2	0	2400	2400	0
9/6/2024 8:04	46102	MACI_T1	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
9/6/2024 8:07	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 8:09	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 8:09	67503	WEWI_T2	1	1	0	9.5	9.1	-0.4	0	0	0	0	0	0	0	0
9/6/2024 8:09	67502	WEWI_T2	1	0	-1	0.1	0	-0.1	-0.38	-0.29	0	0	0	0	0	0
9/6/2024 8:10	45901	AUBU_T1	0	0	0	0	0	0	0.8	0.82	0	0	0	0	0	0
9/6/2024 8:11	67502	WEWI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 8:11	44802	EDAN_T2	0	0	0	0	0	0	-2.25	-2.29	0	0	0	0	0	0
9/6/2024 8:11	53501	EVIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/6/2024 8:11	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/6/2024 8:11	53502	EVIL_T2	0	0	0	0	0	0	0.47	0.49	1	1	0	600	600	0
9/6/2024 8:11	44801	EDAN_T2	81	172	91	0.33	0.61	0.28	0	0	0	0	0	0	0	0
9/6/2024 8:11	67503	WEWI_T2	1	1	0	9.5	9.1	-0.4	-0.25	-0.24	0	0	0	0	0	0
9/6/2024 8:13	61001	DONV_T1	0	0	0	0	0	0	-0.05	-0.02	0	0	0	0	0	0
9/6/2024 8:13	44802	EDAN_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
9/6/2024 8:13	44801	EDAN_T2	81	172	91	0.33	0.61	0.28	0	0	0	0	0	0	0	0
9/6/2024 8:14	40902	JESH_T1	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
9/6/2024 8:14	40901	JESH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 8:15	53803	MBRG_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
9/6/2024 8:15	53502	EVIL_T2	0	0	0	0	0	0	0.47	0.49	1	1	0	600	600	0
9/6/2024 8:15	53501	EVIL_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
9/6/2024 8:17	22805	HAUT_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
9/6/2024 8:18	40902	JESH_T1	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
9/6/2024 8:19	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 8:23	15203	SFAR_T2	0	52	52	0	0.14	0.14	-2.55	-2.37	0	0	0	0	0	0
9/6/2024 8:24	15203	SFAR_T2	0	52	52	0	0.14	0.14	-1.28	-1.19	0	0	0	0	0	0
9/6/2024 8:26	47203	FAXO_T2	0	0	0	0	0	0	-1.65	-1.59	1	1	0	1200	1200	0
9/6/2024 8:26	21501	CEAV_T2	0	0	0	0	0	0	0	0	0	1	1	0	1200	1200
9/6/2024 8:27	40802	EXCH_T2	0	1	1	0	0.6	0.6	-0.12	-0.3	0	0	0	0	0	0
9/6/2024 8:27	40801	EXCH_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 8:29	40802	EXCH_T2	0	1	1	0	0.6	0.6	-0.12	-0.3	0	0	0	0	0	0
9/6/2024 8:29	40801	EXCH_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 8:30	40801	EXCH_T2	1	4	3	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/6/2024 8:30	40802	EXCH_T2	1	1	0	0.1	0.6	0.5	-0.12	-0.3	0	0	0	0	0	0
9/6/2024 8:31	11301	EMMA_T1	0	0	0	0	0	0	-0.72	-0.76	0	0	0	0	0	0
9/6/2024 8:32	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 8:34	52001	LING_T1	0	0	0	0	0	0	0.17	0.2	0	0	0	0	0	0
9/6/2024 8:35	55002	NEWP_T1	6	6	0	0.92	0.63	-0.29	-0.25	-0.25	0	0	0	0	0	0
9/6/2024 8:36	43801	SWIL_T1	32	8	-24	0.3	0.68	0.38	0	0	0	0	0	0	0	0
9/6/2024 8:36	43802	SWIL_T1	0	0	0	0	0	0	-0.18	-0.2	1	1	0	600	600	0
9/6/2024 8:36	15203	SFAR_T2	52	3	-49	0.14	0.17	0.03	-2.37	-2.32	0	0	0	0	0	0
9/6/2024 8:37	16301	ALPA_T1	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
9/6/2024 8:38	46004	BERW_T2	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
9/6/2024 8:38	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.4	0	0	0	0	0	0
9/6/2024 8:38	15703	TANN_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
9/6/2024 8:39	15203	SFAR_T2	52	3	-49	0.14	0.17	0.03	-1.19	-1.16	0	0	0	0	0	0
9/6/2024 8:39	43801	SWIL_T1	32	8	-24	0.3	0.68	0.38	0	0	0	0	0	0	0	0
9/6/2024 8:39	43802	SWIL_T1	0	0	0	0	0	0	-0.18	-0.2	1	1	0	600	600	0
9/6/2024 8:40	43801	SWIL_T1	32	8	-24	0.3	0.68	0.38	0	0	0	0	0	0	0	0
9/6/2024 8:40	16301	ALPA_T1	0	0	0	0	0	0	0.24	0.29	0	0	0	0	0	0
9/6/2024 8:40	43802	SWIL_T1	0	0	0	0	0	0	-0.18	-0.2	1	1	0	600	600	0
9/6/2024 8:41	16301	ALPA_T1	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
9/6/2024 8:42	16301	ALPA_T1	0	0	0	0	0	0	0.24	0.29	0	0	0	0	0	0
9/6/2024 8:43	62102	ELAN_T1	0	0	0	0	0	0	0.59	0.54	0	0	0	0	0	0
9/6/2024 8:43	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/6/2024 8:43	62106	ELAN_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 8:43	62101	ELAN_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
9/6/2024 8:43	54506	ENOL_T2	0	0	0	0	0	0	0.04	-0.01	1	1	0	600	600	0
9/6/2024 8:43	54502	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/6/2024 8:43	63501	HEID_TBK1-2	49	48	-1	0.6	0.43	-0.17	-0.05	-0.05	1	1	0	900	900	0
9/6/2024 8:44	22904	HARW_T1	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
9/6/2024 8:45	62101	ELAN_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
9/6/2024 8:45	62102	ELAN_T1	0	0	0	0	0	0	0.59	0.54	0	0	0	0	0	0
9/6/2024 8:46	46102	MACI_T1	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
9/6/2024 8:46	16004	DORN_T1	0	0	0	0	0	0	0.51	0.46	0	0	0	0	0	0
9/6/2024 8:47	16004	DORN_T1	0	0	0	0	0	0	0.51	0.46	0	0	0	0	0	0
9/6/2024 8:47	63501	HEID_TBK1-2	48	48	0	0.5	0.44	-0.06	-0.05	-0.05	1	1	0	900	900	0
9/6/2024 8:48	51702	OBER_T1	2	2	0	3.4	3.3	-0.1	-0.76	-0.77	1	1	0	600	600	0
9/6/2024 8:50	41902	REED_T1	0	0	0	0	0	0	1.05	1.11	0	0	0	0	0	0
9/6/2024 8:51	41902	REED_T1	0	0	0	0	0	0	1.11	1.08	0	0	0	0	0	0
9/6/2024 8:52	57402	SPAN_T2	0	0	0	0	0	0	-0.52	-0.49	0	0	0	0	0	0
9/6/2024 8:52	51702	OBER_T1	2	2	0	3.4	3.3	-0.1	-0.77	-0.74	1	1	0	600	600	0
9/6/2024 8:54	57006	WHHI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/6/2024 8:54	57401	SPAN_T1	2	2	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
9/6/2024 8:54	57403	SPAN_T1	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
9/6/2024 8:54	57004	WHHI_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
9/6/2024 8:55	44802	EDAN_T2	0	0	0	0	0	0	-0.69	-0.74	0	0	0	0	0	0
9/6/2024 8:55	44801	EDAN_T2	163	171	8	0.54	0.68	0.14	0	0	0	0	0	0	0	0
9/6/2024 8:55	57006	WHHI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/6/2024 8:55	57401	SPAN_T1	2	2	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
9/6/2024 8:55	57004	WHHI_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
9/6/2024 8:55	57403	SPAN_T1	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
9/6/2024 8:58	11507	FREE_T2	0	0	0	0	0	0	1.22	1.27	0	0	0	0	0	0
9/6/2024 8:59	46801	HEPB_T2	3	3	0	0.77	0.7	-0.07	0.57	0.6	0	0	0	0	0	0
9/6/2024 9:00	46801	HEPB_T2	3	3	0	0.67	0.7	0.03	0	0	0	0	0	0	0	0
9/6/2024 9:00	63403	HONY_T2	0	0	0	0	0	0	0.2	0.2	1	1	0	600	600	0
9/6/2024 9:00	52004	LING_T2	2	2	0	5.85	5.75	-0.1	0.33	0.36	0	0	0	0	0	0
9/6/2024 9:00	46803	HEPB_T2	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
9/6/2024 9:03	55001	NEWP_T1	0	1	1	0	0.2	0.2	-0.12	-0.17	0	0	0	0	0	0
9/6/2024 9:03	55002	NEWP_T1	4	4	0	0.53	0.9	0.37	0	0	0	0	0	0	0	0
9/6/2024 9:03	66903	SHIL_T2	0	0	0	0	0	0	-0.89	-0.82	0	0	0	0	0	0
9/6/2024 9:03	13503	MCMI_T2	1	3	2	0.4	0.63	0.23	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 9:04	53501	EVIL_T2	1	2	1	0.8	0.6	-0.2	-0.01	-0.01	2	2	0	1500	1500	0
9/6/2024 9:04	53803	MBRG_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
9/6/2024 9:05	53501	EVIL_T2	1	2	1	0.8	0.6	-0.2	-0.01	-0.01	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/6/2024 9:06	13701	SCHN_T2	0	1	1	0	0.2	0.2	0.02	0.04	1	1	0	600	600	0
9/6/2024 9:06	13704	SCHN_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
9/6/2024 9:08	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 9:08	15203	SFAR_T2	3	160	157	0.17	0.3	0.13	0	0	0	0	0	0	0	0
9/6/2024 9:08	15204	SFAR_T2	0	1	1	0	0.2	0.2	0.06	0.07	0	0	0	0	0	0
9/6/2024 9:08	14802	TREI_T2	0	3	3	0	0.17	0.17	0.59	0.58	0	0	0	0	0	0
9/6/2024 9:08	14801	TREI_T2	1	5	4	0.3	0.38	0.08	0	0	0	0	0	0	0	0
9/6/2024 9:09	14401	SSLA_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
9/6/2024 9:09	14404	SSLA_T1	0	5	5	0	0.42	0.42	0.09	0.33	0	0	0	0	0	0
9/6/2024 9:09	14402	SSLA_T1	0	20	20	0	0.15	0.15	0	0	0	0	0	0	0	0
9/6/2024 9:09	66903	SHIL_T2	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
9/6/2024 9:09	14403	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 9:10	15204	SFAR_T2	0	1	1	0	0.2	0.2	0.06	0.07	0	0	0	0	0	0
9/6/2024 9:10	15203	SFAR_T2	3	160	157	0.17	0.3	0.13	0	0	0	0	0	0	0	0
9/6/2024 9:10	62607	ENGL_T1	0	1	1	0	0	0	-0.73	-0.77	0	0	0	0	0	0
9/6/2024 9:11	15203	SFAR_T2	3	160	157	0.17	0.3	0.13	0	0	0	0	0	0	0	0
9/6/2024 9:11	15204	SFAR_T2	0	1	1	0	0.2	0.2	0.06	0.07	0	0	0	0	0	0
9/6/2024 9:13	62607	ENGL_T1	0	1	1	0	0	0	-0.73	-0.77	0	0	0	0	0	0
9/6/2024 9:13	40801	EXCH_T2	3	2	-1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
9/6/2024 9:13	40802	EXCH_T2	1	1	0	0.2	0.1	-0.1	-0.55	0.27	0	0	0	0	0	0
9/6/2024 9:14	40601	PIGR_T1	1	17	16	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/6/2024 9:14	40801	EXCH_T2	3	2	-1	0.13	0.15	0.02	-0.48	-0.49	1	1	0	1200	1200	0
9/6/2024 9:14	40602	PIGR_T1	0	0	0	0	0	0	-0.45	-0.6	1	1	0	600	600	0
9/6/2024 9:14	12602	MACA_T1	0	0	0	0	0	0	-1.12	-1.18	0	0	0	0	0	0
9/6/2024 9:14	40802	EXCH_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/6/2024 9:16	40101	HUNT_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
9/6/2024 9:20	43105	SMIL_T2	10	13	3	0.22	0.26	0.04	0	0	0	0	0	0	0	0
9/6/2024 9:20	43103	SMIL_T2	22	22	0	0.75	0.91	0.16	0	0	0	0	0	0	0	0
9/6/2024 9:20	43106	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/6/2024 9:20	14401	SSLA_T1	3	9	6	0.23	0.28	0.05	-0.35	-0.4	0	0	0	0	0	0
9/6/2024 9:20	14404	SSLA_T1	5	18	13	0.34	0.24	-0.1	0	0	0	0	0	0	0	0
9/6/2024 9:20	14403	SSLA_T1	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
9/6/2024 9:20	14402	SSLA_T1	6	89	83	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
9/6/2024 9:20	43102	SMIL_T2	7	9	2	0.74	0.74	0	0	0	0	0	0	0	0	0
9/6/2024 9:20	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
9/6/2024 9:20	43104	SMIL_T2	0	0	0	0	0	0	-0.79	-0.74	1	1	0	300	300	0
9/6/2024 9:21	15703	TANN_T2	1	3	2	5	1.63	-3.37	0	0	0	0	0	0	0	0
9/6/2024 9:21	43104	SMIL_T2	0	0	0	0	0	0	-1.48	-1.52	2	2	0	600	600	0
9/6/2024 9:21	43106	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/6/2024 9:21	14404	SSLA_T1	5	18	13	0.34	0.24	-0.1	0	0	0	0	0	0	0	0
9/6/2024 9:21	14403	SSLA_T1	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
9/6/2024 9:21	43105	SMIL_T2	10	13	3	0.22	0.26	0.04	0	0	0	0	0	0	0	0
9/6/2024 9:21	14402	SSLA_T1	6	89	83	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
9/6/2024 9:21	15702	TANN_T2	5	21	16	0.14	0.16	0.02	-0.31	-0.38	0	0	0	0	0	0
9/6/2024 9:21	43102	SMIL_T2	7	9	2	0.74	0.74	0	0	0	0	0	0	0	0	0
9/6/2024 9:21	43103	SMIL_T2	22	22	0	0.75	0.91	0.16	0	0	0	0	0	0	0	0
9/6/2024 9:21	14401	SSLA_T1	3	9	6	0.23	0.28	0.05	-0.4	-0.27	0	0	0	0	0	0
9/6/2024 9:22	43103	SMIL_T2	22	22	0	0.75	0.91	0.16	0	0	0	0	0	0	0	0
9/6/2024 9:22	43105	SMIL_T2	10	13	3	0.22	0.26	0.04	0	0	0	0	0	0	0	0
9/6/2024 9:22	43104	SMIL_T2	0	0	0	0	0	0	-0.74	-0.76	1	1	0	300	300	0
9/6/2024 9:22	43102	SMIL_T2	7	9	2	0.74	0.74	0	0	0	0	0	0	0	0	0
9/6/2024 9:22	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
9/6/2024 9:22	67503	WEWI_T2	1	1	0	9.2	9.1	-0.1	-0.23	-0.22	0	0	0	0	0	0
9/6/2024 9:22	43106	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/6/2024 9:23	55102	WERT_T2	0	0	0	0	0	0	-0.45	-0.38	2	2	0	1200	1200	0
9/6/2024 9:23	67503	WEWI_T2	1	1	0	9.2	9.1	-0.1	-0.23	-0.22	0	0	0	0	0	0
9/6/2024 9:23	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
9/6/2024 9:24	14603	SWHI_T1	0	2	2	0	0.45	0.45	-1.81	-1.72	2	2	0	1200	1200	0
9/6/2024 9:24	44301	BEAV_T2	0	1	1	0	0.3	0.3	0.51	0.5	2	2	0	1500	1500	0
9/6/2024 9:25	40504	CRES_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
9/6/2024 9:25	67503	WEWI_T2	1	1	0	9.2	9.1	-0.1	-0.23	-0.22	0	0	0	0	0	0
9/6/2024 9:25	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 9:26	14603	SWHI_T1	0	2	2	0	0.45	0.45	-0.9	-0.86	1	1	0	600	600	0
9/6/2024 9:26	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 9:26	40504	CRES_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
9/6/2024 9:26	15204	SFAR_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/6/2024 9:26	15203	SFAR_T2	158	116	-42	0.31	0.21	-0.1	-1.14	-1.1	0	0	0	0	0	0
9/6/2024 9:27	54502	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/6/2024 9:27	54505	ENOL_T2	1	1	0	0.9	0.9	0	-0.65	-0.66	1	1	0	600	600	0
9/6/2024 9:27	44301	BEAV_T2	0	1	1	0	0.3	0.3	0.51	0.5	2	2	0	1500	1500	0
9/6/2024 9:27	12601	MACA_T1	0	1	1	0	0.3	0.3	0.86	0.8	0	0	0	0	0	0
9/6/2024 9:28	23401	HONE_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
9/6/2024 9:28	62607	ENGL_T1	0	0	0	0	0	0	-0.77	-0.74	0	0	0	0	0	0
9/6/2024 9:29	54502	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/6/2024 9:29	54501	ENOL_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
9/6/2024 9:29	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
9/6/2024 9:30	54505	ENOL_T2	1	1	0	0.9	1	0.1	-0.65	-0.66	1	1	0	600	600	0
9/6/2024 9:30	54502	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/6/2024 9:31	54505	ENOL_T2	1	1	0	0.9	1	0.1	-1.3	-1.32	2	2	0	1200	1200	0
9/6/2024 9:31	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 9:31	40101	HUNT_T2	0	1	1	0	0	0	-0.4	-0.34	0	0	0	0	0	0
9/6/2024 9:31	54502	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/6/2024 9:32	54502	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/6/2024 9:32	54505	ENOL_T2	1	1	0	0.9	1	0.1	-0.65	-0.66	1	1	0	600	600	0
9/6/2024 9:33	50501	MECH_T1	4	4	0	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
9/6/2024 9:33	50502	MECH_T1	1	1	0	2.5	2.6	0.1	0	0	0	0	0	0	0	0
9/6/2024 9:33	50506	MECH_T1	0	0	0	0	0	0	0.9	0.77	0	0	0	0	0	0
9/6/2024 9:34	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
9/6/2024 9:35	46501	LOHA_T1	0	0	0	0	0	0	0	0.04	1	1	0	1200	1200	0
9/6/2024 9:35	46504	LOHA_T1	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/6/2024 9:35	66701	STRA_T1	0	0	0	0	0	0	-0.03	-0.03	1	1	0	600	600	0
9/6/2024 9:35	46506	LOHA_T1	3	3	0	5.63	5.73	0.1	0	0	0	0	0	0	0	0
9/6/2024 9:35	66703	STRA_T1	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
9/6/2024 9:37	66701	STRA_T1	0	0	0	0	0	0	-0.03	0.07	1	1	0	600	600	0
9/6/2024 9:38	46801	HEPB_T2	2	2	0	0.95	0.8	-0.15	0.63	0.64	0	0	0	0	0	0
9/6/2024 9:38	20403	ASHF_T2	0	8	8	0	0.34	0.34	1.28	1.21	0	0	0	0	0	0
9/6/2024 9:38	20401	ASHF_T2	3	8	5	0.3	0.31	0.01	0	0	0	0	0	0	0	0
9/6/2024 9:38	46803	HEPB_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/6/2024 9:38	12601	MACA_T1	0	1	1	0	0.6	0.6	0.8	0.91	0	0	0	0	0	0
9/6/2024 9:40	14404	SSLA_T1	5	18	13	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
9/6/2024 9:40	20401	ASHF_T2	3	8	5	0.3	0.31	0.01	0	0	0	0	0	0	0	0
9/6/2024 9:40	20403	ASHF_T2	0	8	8	0	0.34	0.34	1.28	1.21	0	0	0	0	0	0
9/6/2024 9:40	14401	SSLA_T1	3	9	6	0.27	0.29	0.02	0	0	0	0	0	0	0	0
9/6/2024 9:40	14402	SSLA_T1	17	91	74	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/6/2024 9:40	14403	SSLA_T1	1	3	2	0.1	0.6	0.5	0.97	1.02	0	0	0	0	0	0
9/6/2024 9:42	20401	ASHF_T2	3	8	5	0.3	0.31	0.01	0	0	0	0	0	0	0	0
9/6/2024 9:42	11103	EGYP_T1	1	1	0	5.8	0	-5.8	0	0	0	0	0	0	0	0
9/6/2024 9:42	20403	ASHF_T2	0	8	8	0	0.34	0.34	1.28	1.21	0	0	0	0	0	0
9/6/2024 9:42	11104	EGYP_T1	0	0	0	0	0	0	0.62	0.66	0	0	0	0	0	0
9/6/2024 9:45	47001	HUGH_T2	3	3	0	8.7	8.73	0.03	-0.23	-0.24	0	0	0	0	0	0
9/6/2024 9:46	11104	EGYP_T1	0	0	0	0	0	0	0.62	0.66	0	0	0	0	0	0
9/6/2024 9:46	46801	HEPB_T2	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/6/2024 9:46	46803	HEPB_T2	0	1	1	0	0.5	0.5	0.56	0.53	0	0	0	0	0	0
9/6/2024 9:47	16702	MACK_T1	0	0	0	0	0	0	-1.02	-1	0	0	0	0	0	0
9/6/2024 9:47	47001	HUGH_T2	3	3	0	8.7	8.73	0.03	-0.23	-0.24	0	0	0	0	0	0
9/6/2024 9:49	43201	MVIL_T2	0	0	0	0	0	0	-0.4	-0.36	0	0	0	0	0	0
9/6/2024 9:49	64903	MILL_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
9/6/2024 9:49	43202	MVIL_T2	0	42	42	0	0.25	0.25	0	0	0	0	0	0	0	0
9/6/2024 9:51	57002	WHHI_T2	0	0	0	0	0	0	-1.31	-1.32	1	1	0	1200	1200	0
9/6/2024 9:51	57006	WHHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/6/2024 9:52	61001	DONV_T1	0	0	0	0	0	0	-0.2	-0.23	0	0	0	0	0	0
9/6/2024 9:53	67203	TEHI_T1	1	1	0	0.8	0.2	-0.6	2.58	2.77	3	3	0	2100	2100	0
9/6/2024 9:54	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
9/6/2024 9:54	54502	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/6/2024 9:54	54501	ENOL_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
9/6/2024 9:55	44301	BEAV_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
9/6/2024 9:56	58803	COCO_T1	1	1	0	2.3	2.2	-0.1	0	0	0	0	0	0	0	0
9/6/2024 9:56	45501	DERR_T2	0	0	0	0	0	0	0.51	0.56	2	2	0	1800	1800	0
9/6/2024 9:57	64903	MILL_T2	0	0	0	0	0	0	0.26	0.2	0	0	0	0	0	0
9/6/2024 9:58	44801	EDAN_T2	128	138	10	0.38	0.5	0.12	-1.62	-1.58	0	0	0	0	0	0
9/6/2024 9:59	42201	SHEN_T2	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
9/6/2024 9:59	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 9:59	45501	DERR_T2	0	0	0	0	0	0	0.51	0.56	2	2	0	1800	1800	0
9/6/2024 9:59	41902	REED_T1	0	0	0	0	0	0	1.07	1.1	0	0	0	0	0	0
9/6/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
9/6/2024 10:00	66505	SMAN_T2	0	0	0	0	0	0	0.81	0.89	1	1	0	900	900	0
9/6/2024 10:00	43202	MVIL_T2	0	82	82	0	0.46	0.46	0	0	0	0	0	0	0	0
9/6/2024 10:00	15702	TANN_T2	1	4	3	0.5	0.43	-0.07	-0.37	-0.37	0	0	0	0	0	0
9/6/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
9/6/2024 10:00	24204	PROV_T3	1	1	0	6.8	6.3	-0.5	0	0	0	0	0	0	0	0
9/6/2024 10:00	44801	EDAN_T2	113	163	50	0.34	0.62	0.28	-1.62	-1.58	0	0	0	0	0	0
9/6/2024 10:00	52401	GRPA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/6/2024 10:00	52403	GRPA_T2	94	103	9	1.05	1.12	0.07	-0.18	-0.19	0	0	0	0	0	0
9/6/2024 10:00	52402	GRPA_T2	3	4	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
9/6/2024 10:00	49802	UNIV_T2	0	1	1	0	0.2	0.2	-0.25	-0.21	0	0	0	0	0	0
9/6/2024 10:00	24201	PROV_T3	1	3	2	7.4	2.27	-5.13	0.02	0.04	0	0	0	0	0	0
9/6/2024 10:00	66502	SMAN_T2	0	0	0	0	0	0	0.32	0.41	0	0	0	0	0	0
9/6/2024 10:00	55001	NEWP_T1	0	0	0	0	0	0	-0.18	-0.09	0	0	0	0	0	0
9/6/2024 10:00	67503	WEWI_T2	1	1	0	9.1	9.1	0	-0.45	-0.42	0	0	0	0	0	0
9/6/2024 10:00	59003	MIFF_T1	1	1	0	0.8	0.6	-0.2	-0.28	0.05	0	0	0	0	0	0
9/6/2024 10:00	28102	TWLA_T2	11	11	0	0.48	0.61	0.13	0.21	0.21	0	0	0	0	0	0
9/6/2024 10:00	15703	TANN_T2	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 10:00	55002	NEWP_T1	5	6	1	0.92	0.93	0.01	0	0	0	0	0	0	0	0
9/6/2024 10:00	59002	MIFF_T1	6	6	0	0.82	0.7	-0.12	0	0	0	0	0	0	0	0
9/6/2024 10:00	52404	GRPA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/6/2024 10:00	43201	MVIL_T2	0	1	1	0	0.9	0.9	-0.36	-0.33	0	0	0	0	0	0
9/6/2024 10:00	58803	COCO_T1	1	1	0	2.2	2	-0.2	0	0	0	0	0	0	0	0
9/6/2024 10:00	58202	NEWV_T1	0	0	0	0	0	0	0.75	0.64	0	0	0	0	0	0
9/6/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.52	0.62	0	0	0	0	0	0
9/6/2024 10:01	58803	COCO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 10:04	50505	MECH_T1	0	0	0	0	0	0	-0.76	-0.74	0	0	0	0	0	0
9/6/2024 10:04	50502	MECH_T1	1	1	0	2.6	2.4	-0.2	0	0	0	0	0	0	0	0
9/6/2024 10:04	50501	MECH_T1	4	4	0	0.38	0.78	0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/6/2024 10:07	55002	NEWP_T1	5	6	1	0.92	0.93	0.01	-0.21	-0.23	0	0	0	0	0	0
9/6/2024 10:07	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 10:07	15703	TANN_T2	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 10:07	15702	TANN_T2	1	4	3	0.5	0.43	-0.07	-0.37	-0.37	0	0	0	0	0	0
9/6/2024 10:07	21705	SUBU_T1	1	1	0	5.6	5.6	0	0.77	0.78	0	0	0	0	0	0
9/6/2024 10:07	21701	SUBU_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
9/6/2024 10:08	67503	WEWI_T2	1	1	0	9.1	9.1	0	0	0	0	0	0	0	0	0
9/6/2024 10:08	67502	WEWI_T2	0	0	0	0	0	0	-0.37	-0.28	0	0	0	0	0	0
9/6/2024 10:08	57004	WHHI_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
9/6/2024 10:08	57006	WHHI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/6/2024 10:08	15203	SFAR_T2	6	2	-4	0.5	0.35	-0.15	-1.06	-1.05	0	0	0	0	0	0
9/6/2024 10:09	54505	ENOL_T2	1	1	0	1	0.7	-0.3	-0.65	-0.65	1	1	0	600	600	0
9/6/2024 10:09	15203	SFAR_T2	6	2	-4	0.5	0.35	-0.15	-1.06	-1.05	0	0	0	0	0	0
9/6/2024 10:09	46002	BERW_T2	1	1	0	0.1	0.2	0.1	-0.54	-0.49	1	1	0	900	900	0
9/6/2024 10:09	54502	ENOL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/6/2024 10:09	46004	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 10:09	15701	TANN_T1	2	2	0	2.55	2.6	0.05	0	0	0	0	0	0	0	0
9/6/2024 10:09	20403	ASHF_T2	8	0	-8	0.34	0	-0.34	2.63	2.69	0	0	0	0	0	0
9/6/2024 10:09	15704	TANN_T1	0	1	1	0	0.1	0.1	-0.18	-0.21	0	0	0	0	0	0
9/6/2024 10:09	20401	ASHF_T2	5	3	-2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
9/6/2024 10:09	44301	BEAV_T2	0	0	0	0	0	0	-0.02	0.18	2	2	0	1500	1500	0
9/6/2024 10:10	67505	WEWI_T1	0	0	0	0	0	0	-0.1	-0.14	1	1	0	900	900	0
9/6/2024 10:10	41902	REED_T1	0	0	0	0	0	0	1.1	1.11	0	0	0	0	0	0
9/6/2024 10:10	67503	WEWI_T2	1	1	0	9.1	9.1	0	-0.21	-0.22	0	0	0	0	0	0
9/6/2024 10:10	67502	WEWI_T2	0	0	0	0	0	0	-0.37	-0.28	0	0	0	0	0	0
9/6/2024 10:11	45902	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 10:11	45901	AUBU_T1	0	0	0	0	0	0	0.98	0.98	0	0	0	0	0	0
9/6/2024 10:11	44802	EDAN_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
9/6/2024 10:11	44801	EDAN_T2	113	163	50	0.34	0.62	0.28	0	0	0	0	0	0	0	0
9/6/2024 10:11	24105	EHAZ_T1	4	4	0	6.08	6.35	0.27	0	0	0	0	0	0	0	0
9/6/2024 10:11	44301	BEAV_T2	0	0	0	0	0	0	-0.02	0.18	2	2	0	1500	1500	0
9/6/2024 10:11	15203	SFAR_T2	6	2	-4	0.5	0.35	-0.15	-1.06	-1.05	0	0	0	0	0	0
9/6/2024 10:11	24102	EHAZ_T1	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
9/6/2024 10:11	57402	SPAN_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
9/6/2024 10:12	40802	EXCH_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/6/2024 10:12	40801	EXCH_T2	1	0	-1	0.5	0	-0.5	-0.43	-0.38	1	1	0	1200	1200	0
9/6/2024 10:12	11104	EGYP_T1	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
9/6/2024 10:12	44802	EDAN_T2	0	0	0	0	0	0	-1.08	-1.1	0	0	0	0	0	0
9/6/2024 10:12	44801	EDAN_T2	113	163	50	0.34	0.62	0.28	0	0	0	0	0	0	0	0
9/6/2024 10:12	11102	EGYP_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
9/6/2024 10:12	11103	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 10:12	58202	NEWV_T1	0	0	0	0	0	0	0.64	0.55	0	0	0	0	0	0
9/6/2024 10:13	50107	HARR_T3	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
9/6/2024 10:13	44802	EDAN_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
9/6/2024 10:13	20401	ASHF_T2	5	3	-2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
9/6/2024 10:13	50105	HARR_T3	6	6	0	6.78	6.83	0.05	0	0	0	0	0	0	0	0
9/6/2024 10:13	11102	EGYP_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
9/6/2024 10:13	54505	ENOL_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
9/6/2024 10:13	11103	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 10:13	50201	HARR_T3	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/6/2024 10:13	54502	ENOL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/6/2024 10:13	44801	EDAN_T2	113	163	50	0.34	0.62	0.28	0	0	0	0	0	0	0	0
9/6/2024 10:13	40101	HUNT_T2	1	2	1	0.2	0.1	-0.1	-0.2	-0.22	0	0	0	0	0	0
9/6/2024 10:13	20403	ASHF_T2	8	0	-8	0.34	0	-0.34	1.31	1.35	0	0	0	0	0	0
9/6/2024 10:13	11104	EGYP_T1	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
9/6/2024 10:13	50103	HARR_T3	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/6/2024 10:13	54504	ENOL_T2	0	0	0	0	0	0	-1.74	-1.73	1	1	0	600	600	0
9/6/2024 10:14	40504	CRES_T1	0	0	0	0	0	0	-0.57	-0.51	0	0	0	0	0	0
9/6/2024 10:14	44801	EDAN_T2	113	163	50	0.34	0.62	0.28	0	0	0	0	0	0	0	0
9/6/2024 10:14	44802	EDAN_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
9/6/2024 10:14	25402	LAHA_T2	2	2	0	0.15	0.45	0.3	-0.43	-0.41	0	0	0	0	0	0
9/6/2024 10:15	45502	DERR_T2	0	0	0	0	0	0	0.24	0.25	1	1	0	300	300	0
9/6/2024 10:15	44801	EDAN_T2	138	164	26	0.49	0.65	0.16	-1.58	-1.57	0	0	0	0	0	0
9/6/2024 10:16	63501	HEID_TBK1-2	18	28	10	0.62	0.48	-0.14	-0.19	-0.24	1	1	0	900	900	0
9/6/2024 10:17	12807	MICK_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/6/2024 10:17	12801	MICK_T1	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
9/6/2024 10:18	63501	HEID_TBK1-2	18	28	10	0.62	0.48	-0.14	-0.56	-0.72	3	3	0	2700	2700	0
9/6/2024 10:20	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 10:21	43102	SMIL_T2	6	6	0	0.9	0.8	-0.1	-0.7	-0.69	1	1	0	600	600	0
9/6/2024 10:21	43106	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 10:21	15603	NSTR_T2	1	1	0	0.3	0.3	0	-0.28	-0.23	0	0	0	0	0	0
9/6/2024 10:21	43103	SMIL_T2	21	22	1	0.77	0.59	-0.18	0	0	0	0	0	0	0	0
9/6/2024 10:21	15702	TANN_T2	3	4	1	0.47	0.4	-0.07	-0.37	-0.37	0	0	0	0	0	0
9/6/2024 10:21	43105	SMIL_T2	9	9	0	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
9/6/2024 10:21	15703	TANN_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
9/6/2024 10:21	15601	NSTR_T2	3	3	0	0.7	0.77	0.07	0	0	0	0	0	0	0	0
9/6/2024 10:21	16402	MOPO_T1	0	0	0	0	0	0	0.35	0.43	0	0	0	0	0	0
9/6/2024 10:23	67203	TEHI_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/6/2024 10:23	67201	TEHI_T1	0	1	1	0	0.1	0.1	0.74	0.7	2	2	0	1500	1500	0
9/6/2024 10:23	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 10:24	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 10:24	41902	REED_T1	0	0	0	0	0	0	1.11	1.17	0	0	0	0	0	0
9/6/2024 10:25	24204	PROV_T3	1	1	0	6.6	6.3	-0.3	0	0	0	0	0	0	0	0
9/6/2024 10:25	45501	DERR_T2	0	0	0	0	0	0	0.57	0.61	2	2	0	1800	1800	0
9/6/2024 10:25	45902	AUBU_T1	0	1	1	0	0.4	0.4	0.04	0.12	0	0	0	0	0	0
9/6/2024 10:25	24201	PROV_T3	1	3	2	7.4	2.27	-5.13	-1.22	-1.19	1	1	0	1200	1200	0
9/6/2024 10:25	10801	CHHI_T1	0	0	0	0	0	0	-0.33	-0.39	1	1	0	900	900	0
9/6/2024 10:25	41902	REED_T1	0	0	0	0	0	0	1.11	1.17	0	0	0	0	0	0
9/6/2024 10:26	46002	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 10:26	46004	BERW_T2	0	1	1	0	0.1	0.1	-0.46	-0.45	0	0	0	0	0	0
9/6/2024 10:27	45902	AUBU_T1	0	1	1	0	0.4	0.4	0.07	0.25	0	0	0	0	0	0
9/6/2024 10:28	45501	DERR_T2	0	0	0	0	0	0	0.57	0.61	2	2	0	1800	1800	0
9/6/2024 10:28	65001	NEFF_T2	0	0	0	0	0	0	-0.6	-0.57	1	1	0	1200	1200	0
9/6/2024 10:28	46002	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 10:28	46004	BERW_T2	0	1	1	0	0.1	0.1	-0.92	-0.91	0	0	0	0	0	0
9/6/2024 10:29	40101	HUNT_T2	1	0	-1	0.1	0.1	0	-0.44	-0.36	0	0	0	0	0	0
9/6/2024 10:29	40901	JESH_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/6/2024 10:29	63401	HONY_T1	0	0	0	0	0	0	0.1	0.18	1	1	0	600	600	0
9/6/2024 10:29	47001	HUGH_T2	3	3	0	8.73	8.63	-0.1	-0.21	-0.17	0	0	0	0	0	0
9/6/2024 10:29	40902	JESH_T1	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
9/6/2024 10:30	11904	ETEX_T2	1	1	0	1.8	1.3	-0.5	0	0	0	0	0	0	0	0
9/6/2024 10:30	11901	ETEX_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
9/6/2024 10:30	40502	CRES_T2	0	3	3	0	0.13	0.13	-1.37	-1.35	0	0	0	0	0	0
9/6/2024 10:30	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 10:31	40902	JESH_T1	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
9/6/2024 10:31	40502	CRES_T2	0	3	3	0	0.13	0.13	-1.37	-1.35	0	0	0	0	0	0
9/6/2024 10:31	40901	JESH_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/6/2024 10:31	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 10:31	24501	GOUL_T2	1	3	2	0.3	0.1	-0.2	0.09	0.08	0	0	0	0	0	0
9/6/2024 10:31	64203	KINZ_T1	0	0	0	0	0	0	-0.19	0.02	3	3	0	2100	2100	0
9/6/2024 10:31	63401	HONY_T1	0	0	0	0	0	0	0.1	0.18	1	1	0	600	600	0
9/6/2024 10:31	64204	KINZ_T1	1	4	3	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/6/2024 10:32	47001	HUGH_T2	3	3	0	8.47	8.67	0.2	-0.21	-0.17	0	0	0	0	0	0
9/6/2024 10:33	52402	GRPA_T2	4	6	2	0.53	0.42	-0.11	0	0	0	0	0	0	0	0
9/6/2024 10:33	16402	MOPO_T1	0	0	0	0	0	0	0.43	0.32	0	0	0	0	0	0
9/6/2024 10:33	52404	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/6/2024 10:33	44202	POIN_T2	0	0	0	0	0	0	-0.86	-0.85	1	1	0	1200	1200	0
9/6/2024 10:33	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/6/2024 10:33	59001	MIFF_T1	0	3	3	0	1	1	0	0	0	0	0	0	0	0
9/6/2024 10:33	59002	MIFF_T1	6	6	0	0.68	0.87	0.19	0	0	0	0	0	0	0	0
9/6/2024 10:33	52403	GRPA_T2	103	112	9	1.12	1.14	0.02	-0.24	-0.23	0	0	0	0	0	0
9/6/2024 10:33	51002	NHAR_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
9/6/2024 10:33	52502	PROG_T2	0	0	0	0	0	0	-0.63	-0.6	1	1	0	900	900	0
9/6/2024 10:33	51004	NHAR_T1	1	1	0	6.2	5.9	-0.3	0.2	0.16	0	0	0	0	0	0
9/6/2024 10:33	59003	MIFF_T1	1	1	0	0.6	0.8	0.2	-0.05	-0.01	0	0	0	0	0	0
9/6/2024 10:34	64204	KINZ_T1	1	4	3	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/6/2024 10:34	13704	SCHN_T2	1	1	0	0.5	0.5	0	-0.23	-0.12	0	0	0	0	0	0
9/6/2024 10:34	52502	PROG_T2	0	0	0	0	0	0	-1.88	-1.81	3	3	0	2700	2700	0
9/6/2024 10:34	64203	KINZ_T1	0	0	0	0	0	0	-0.19	0.02	3	3	0	2100	2100	0
9/6/2024 10:35	67201	TEHI_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
9/6/2024 10:35	42601	TUSC_T1	0	0	0	0	0	0	0.32	0.41	2	2	0	1800	1800	0
9/6/2024 10:35	67203	TEHI_T1	0	1	1	0	0	0	2.83	2.74	3	3	0	2100	2100	0
9/6/2024 10:36	42601	TUSC_T1	0	0	0	0	0	0	0.41	0.47	2	2	0	1800	1800	0
9/6/2024 10:38	43802	SWIL_T1	0	0	0	0	0	0	-0.1	-0.1	1	1	0	600	600	0
9/6/2024 10:38	43801	SWIL_T1	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 10:38	14604	SWHI_T1	0	0	0	0	0	0	-0.77	-0.8	1	1	0	600	600	0
9/6/2024 10:39	14603	SWHI_T1	0	0	0	0	0	0	-0.77	-0.8	1	1	0	600	600	0
9/6/2024 10:41	42201	SHEN_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
9/6/2024 10:42	61501	EPET_T2	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
9/6/2024 10:42	61506	EPET_T2	0	0	0	0	0	0	-1.6	-1.59	2	2	0	1800	1800	0
9/6/2024 10:43	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 10:43	20403	ASHF_T2	0	3	3	0	0.4	0.4	2.67	2.4	0	0	0	0	0	0
9/6/2024 10:43	20401	ASHF_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/6/2024 10:43	64602	LEOL_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
9/6/2024 10:44	21206	ECAR_T2	1	1	0	7.7	7.3	-0.4	0	0	0	0	0	0	0	0
9/6/2024 10:44	50201	HARR_T3	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/6/2024 10:44	57505	LAWN_T3	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
9/6/2024 10:44	61301	EARL_T1	0	0	0	0	0	0	-1.01	-0.99	2	2	0	1800	1800	0
9/6/2024 10:44	50105	HARR_T3	6	6	0	6.87	6.7	-0.17	0	0	0	0	0	0	0	0
9/6/2024 10:44	50103	HARR_T3	2	2	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/6/2024 10:44	50107	HARR_T3	1	1	0	6.2	5.9	-0.3	0	0	0	0	0	0	0	0
9/6/2024 10:44	21204	ECAR_T2	1	1	0	0	0	0	-0.67	-0.64	0	0	0	0	0	0
9/6/2024 10:45	50107	HARR_T3	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
9/6/2024 10:45	50103	HARR_T3	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/6/2024 10:45	50105	HARR_T3	6	6	0	6.72	6.67	-0.05	0	0	0	0	0	0	0	0
9/6/2024 10:45	50202	HARR_T3	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
9/6/2024 10:45	50201	HARR_T3	1	1	0	0.6	0.6	0	-0.4	-0.41	1	1	0	1200	1200	0
9/6/2024 10:47	58102	NEKI_T1	1	1	0	1.6	1.5	-0.1	-0.76	-0.68	1	1	0	1200	1200	0
9/6/2024 10:48	65901	SAKR_T2	1	1	0	7.9	7.4	-0.5	0	0	0	0	0	0	0	0
9/6/2024 10:48	65904	SAKR_T2	0	0	0	0	0	0	-2.09	-1.65	3	2	-1	1500	900	-600
9/6/2024 10:49	52004	LING_T2	2	2	0	5.7	5.7	0	0.39	0.39	0	0	0	0	0	0
9/6/2024 10:49	57205	ROSS_T1	0	1	1	0	0.5	0.5	0.26	0.28	0	0	0	0	0	0
9/6/2024 10:49	43201	MVIL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/6/2024 10:49	43202	MVIL_T2	77	57	-20	0.4	0.32	-0.08	-0.56	-0.53	0	0	0	0	0	0
9/6/2024 10:49	64802	MONE_T2	0	0	0	0	0	0	0.34	0.39	0	0	0	0	0	0
9/6/2024 10:50	14502	SCHO_T1	1	1	0	1.7	1.7	0	0.43	0.44	0	0	0	0	0	0
9/6/2024 10:50	58402	MORO_T1	0	0	0	0	0	0	0.02	0.04	2	2	0	1500	1500	0
9/6/2024 10:51	55001	NEWP_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/6/2024 10:51	55002	NEWP_T1	7	7	0	0.94	1.01	0.07	-0.22	-0.2	0	0	0	0	0	0
9/6/2024 10:51	58402	MORO_T1	0	0	0	0	0	0	0.02	0.04	2	2	0	1500	1500	0
9/6/2024 10:52	67703	WERN_T2	0	0	0	0	0	0	-0.05	-0.02	1	1	0	900	900	0
9/6/2024 10:52	55002	NEWP_T1	7	7	0	0.94	1.01	0.07	-0.2	-0.18	0	0	0	0	0	0
9/6/2024 10:52	67702	WERN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/6/2024 10:52	55001	NEWP_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/6/2024 10:57	55002	NEWP_T1	7	7	0	0.94	1.01	0.07	-0.2	-0.18	0	0	0	0	0	0
9/6/2024 10:57	55001	NEWP_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/6/2024 10:59	53901	HALI_T2	3	5	2	0.6	0.46	-0.14	-1.18	-1.18	0	0	0	0	0	0
9/6/2024 10:59	53903	HALI_T2	2	2	0	1.6	1.65	0.05	-0.1	-0.06	0	0	0	0	0	0
9/6/2024 10:59	53902	HALI_T2	1	2	1	5.8	3	-2.8	0	0	0	0	0	0	0	0
9/6/2024 11:00	53903	HALI_T2	2	2	0	1.65	1.7	0.05	-0.1	-0.06	0	0	0	0	0	0
9/6/2024 11:00	53902	HALI_T2	1	2	1	5.9	2.95	-2.95	0	0	0	0	0	0	0	0
9/6/2024 11:00	53901	HALI_T2	3	7	4	0.6	0.39	-0.21	-1.18	-1.18	0	0	0	0	0	0
9/6/2024 11:01	67702	WERN_T2	1	0	-1	0.3	0	-0.3	0.57	0.51	0	0	0	0	0	0
9/6/2024 11:01	67703	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 11:02	43201	MVIL_T2	1	1	0	0.7	0.2	-0.5	-0.28	-0.34	0	0	0	0	0	0
9/6/2024 11:02	53903	HALI_T2	2	2	0	1.65	1.7	0.05	0	0	0	0	0	0	0	0
9/6/2024 11:02	43402	BENT_T1	1	2	1	0.5	0.5	0	0.12	0.14	0	0	0	0	0	0
9/6/2024 11:02	53901	HALI_T2	3	7	4	0.6	0.39	-0.21	-1.18	-1.18	0	0	0	0	0	0
9/6/2024 11:02	53902	HALI_T2	1	2	1	5.9	2.95	-2.95	0	0	0	0	0	0	0	0
9/6/2024 11:02	43202	MVIL_T2	51	57	6	0.26	0.32	0.06	0	0	0	0	0	0	0	0
9/6/2024 11:03	53902	HALI_T2	1	2	1	5.9	2.95	-2.95	0	0	0	0	0	0	0	0
9/6/2024 11:03	13905	SEID_T1	0	0	0	0	0	0	-0.84	-0.85	1	1	0	1200	1200	0
9/6/2024 11:03	67201	TEHI_T1	2	3	1	0.35	0.63	0.28	0.7	0.63	2	2	0	1500	1500	0
9/6/2024 11:03	53903	HALI_T2	2	2	0	1.65	1.7	0.05	0	0	0	0	0	0	0	0
9/6/2024 11:03	64305	LINC_T1	0	1	1	0	0.4	0.4	0.07	0.14	0	0	0	0	0	0
9/6/2024 11:03	43402	BENT_T1	1	2	1	0.5	0.5	0	0.12	0.14	0	0	0	0	0	0
9/6/2024 11:03	53901	HALI_T2	3	7	4	0.6	0.39	-0.21	-1.18	-1.18	0	0	0	0	0	0
9/6/2024 11:06	53903	HALI_T2	2	2	0	1.65	1.7	0.05	0	0	0	0	0	0	0	0
9/6/2024 11:06	67503	WEWI_T2	1	1	0	8.9	9	0.1	-0.1	-0.21	0	0	0	0	0	0
9/6/2024 11:06	53902	HALI_T2	1	2	1	5.9	2.95	-2.95	0	0	0	0	0	0	0	0
9/6/2024 11:06	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 11:06	53901	HALI_T2	3	7	4	0.6	0.39	-0.21	-1.18	-1.18	0	0	0	0	0	0
9/6/2024 11:07	43104	SMIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/6/2024 11:07	56501	ROCK_T2	2	2	0	1.1	1.1	0	0.15	0.12	0	0	0	0	0	0
9/6/2024 11:07	40601	PIGR_T1	0	5	5	0	0.28	0.28	0	0	0	0	0	0	0	0
9/6/2024 11:07	53902	HALI_T2	1	2	1	5.9	2.95	-2.95	-0.17	-0.13	0	0	0	0	0	0
9/6/2024 11:07	43103	SMIL_T2	14	21	7	0.47	0.56	0.09	0	0	0	0	0	0	0	0
9/6/2024 11:07	53903	HALI_T2	2	2	0	1.65	1.7	0.05	0	0	0	0	0	0	0	0
9/6/2024 11:07	43105	SMIL_T2	5	6	1	0.24	0.24	0	0	0	0	0	0	0	0	0
9/6/2024 11:07	53901	HALI_T2	3	7	4	0.6	0.39	-0.21	-1.18	-1.16	0	0	0	0	0	0
9/6/2024 11:07	43101	SMIL_T2	0	1	1	0	0.1	0.1	-0.67	-0.64	0	0	0	0	0	0
9/6/2024 11:07	40602	PIGR_T1	0	0	0	0	0	0	-1.12	-1.09	2	2	0	1200	1200	0
9/6/2024 11:07	43102	SMIL_T2	6	6	0	0.83	0.83	0	0	0	0	0	0	0	0	0
9/6/2024 11:08	67603	WARW_T1	1	0	-1	0.7	0	-0.7	0.1	0.1	0	0	0	0	0	0
9/6/2024 11:08	40601	PIGR_T1	0	5	5	0	0.28	0.28	0	0	0	0	0	0	0	0
9/6/2024 11:08	67605	WARW_T1	21	24	3	0.52	0.54	0.02	0	0	0	0	0	0	0	0
9/6/2024 11:08	56501	ROCK_T2	2	2	0	1.1	1.1	0	0.29	0.25	0	0	0	0	0	0
9/6/2024 11:08	40602	PIGR_T1	0	0	0	0	0	0	-0.56	-0.55	1	1	0	600	600	0
9/6/2024 11:09	67503	WEWI_T2	1	1	0	8.9	9	0.1	-0.1	-0.21	0	0	0	0	0	0
9/6/2024 11:09	67603	WARW_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
9/6/2024 11:09	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 11:09	45501	DERR_T2	0	1	1	0	0.5	0.5	0.62	0.6	2	2	0	1800	1800	0
9/6/2024 11:09	56501	ROCK_T2	2	2	0	1.1	1.1	0	0.29	0.25	0	0	0	0	0	0
9/6/2024 11:09	67605	WARW_T1	21	24	3	0.52	0.54	0.02	-1.02	-1.01	0	0	0	0	0	0
9/6/2024 11:09	59202	THOM_T1	0	12	12	0	0.31	0.31	0	0	0	0	0	0	0	0
9/6/2024 11:09	59201	THOM_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/6/2024 11:10	67603	WARW_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
9/6/2024 11:10	67605	WARW_T1	21	24	3	0.52	0.54	0.02	-1.02	-1.01	0	0	0	0	0	0
9/6/2024 11:10	66703	STRA_T1	0	1	1	0	0.2	0.2	0.09	0.2	0	0	0	0	0	0
9/6/2024 11:10	12302	LANA_T2	0	0	0	0	0	0	-1.48	-1.41	2	2	0	1500	1500	0
9/6/2024 11:12	67603	WARW_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
9/6/2024 11:12	67605	WARW_T1	21	24	3	0.52	0.54	0.02	-1.02	-1.01	0	0	0	0	0	0
9/6/2024 11:13	16103	BING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/6/2024 11:13	62101	ELAN_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/6/2024 11:13	16101	BING_T2	0	0	0	0	0	0	0.51	0.54	0	0	0	0	0	0
9/6/2024 11:13	16102	BING_T2	1	5	4	0.5	0.32	-0.18	0	0	0	0	0	0	0	0
9/6/2024 11:13	62106	ELAN_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
9/6/2024 11:14	13503	MCMI_T2	5	5	0	0.56	0.58	0.02	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 11:14	20601	GRWO_T2	2	2	0	0.1	0.3	0.2	0.99	0.98	0	0	0	0	0	0
9/6/2024 11:14	61306	EARL_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
9/6/2024 11:15	40101	HUNT_T2	1	1	0	0.3	0	-0.3	-0.22	-0.19	0	0	0	0	0	0
9/6/2024 11:15	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 11:15	45501	DERR_T2	1	1	0	0.5	0.5	0	0.62	0.6	2	2	0	1800	1800	0
9/6/2024 11:16	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 11:16	43202	MVIL_T2	55	49	-6	0.32	0.3	-0.02	-0.55	-0.55	0	0	0	0	0	0
9/6/2024 11:18	43202	MVIL_T2	55	49	-6	0.32	0.3	-0.02	-0.55	-0.55	0	0	0	0	0	0
9/6/2024 11:18	25502	MADI_T1	2	2	0	1.1	1.05	-0.05	0	0	0	0	0	0	0	0
9/6/2024 11:18	25503	MADI_T1	141	146	5	0.52	0.47	-0.05	-0.91	-0.92	0	0	0	0	0	0
9/6/2024 11:18	60502	NMAN_T2	0	0	0	0	0	0	-0.09	-0.01	0	0	0	0	0	0
9/6/2024 11:18	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 11:18	25501	MADI_T1	6	6	0	0.82	0.8	-0.02	0	0	0	0	0	0	0	0
9/6/2024 11:19	16204	POFA_T1	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/6/2024 11:19	52001	LING_T1	0	0	0	0	0	0	0.23	0.26	0	0	0	0	0	0
9/6/2024 11:19	16202	POFA_T1	4	3	-1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
9/6/2024 11:20	46302	ROHR_T1	4	4	0	2.23	2.03	-0.2	0.17	0.2	0	0	0	0	0	0
9/6/2024 11:20	46301	ROHR_T1	7	9	2	1.51	1.24	-0.27	0	0	0	0	0	0	0	0
9/6/2024 11:21	43105	SMIL_T2	4	6	2	0.13	0.25	0.12	0	0	0	0	0	0	0	0
9/6/2024 11:21	43101	SMIL_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
9/6/2024 11:21	43104	SMIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/6/2024 11:21	43103	SMIL_T2	19	21	2	0.47	0.57	0.1	0	0	0	0	0	0	0	0
9/6/2024 11:21	43102	SMIL_T2	6	6	0	0.83	0.7	-0.13	-0.66	-0.68	1	1	0	600	600	0
9/6/2024 11:22	57002	WHHI_T2	0	0	0	0	0	0	-1.24	-1.21	1	1	0	1200	1200	0
9/6/2024 11:22	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 11:22	67402	WAKE_T2	0	0	0	0	0	0	0.57	0.6	1	1	0	600	600	0
9/6/2024 11:22	16203	POFA_T2	4	7	3	0.43	0.31	-0.12	0	0	0	0	0	0	0	0
9/6/2024 11:22	57006	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/6/2024 11:22	67401	WAKE_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
9/6/2024 11:23	67402	WAKE_T2	0	0	0	0	0	0	0.57	0.6	1	1	0	600	600	0
9/6/2024 11:23	65205	PRIN_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
9/6/2024 11:23	46302	ROHR_T1	4	4	0	2.23	2.03	-0.2	0.2	0.21	0	0	0	0	0	0
9/6/2024 11:23	46301	ROHR_T1	7	9	2	1.51	1.24	-0.27	0	0	0	0	0	0	0	0
9/6/2024 11:23	67401	WAKE_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
9/6/2024 11:23	45402	WBLO_T2	51	53	2	0.41	0.34	-0.07	-1	-1	1	1	0	900	900	0
9/6/2024 11:23	16203	POFA_T2	4	7	3	0.43	0.31	-0.12	0	0	0	0	0	0	0	0
9/6/2024 11:23	57401	SPAN_T1	2	2	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
9/6/2024 11:24	57403	SPAN_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
9/6/2024 11:24	57403	SPAN_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
9/6/2024 11:24	57401	SPAN_T1	2	2	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
9/6/2024 11:24	16102	BING_T2	5	5	0	0.32	0.32	0	0	0	0	0	0	0	0	0
9/6/2024 11:24	16103	BING_T2	0	0	0	0	0	0	-0.62	-0.64	2	2	0	1500	1500	0
9/6/2024 11:25	16102	BING_T2	5	5	0	0.32	0.32	0	0	0	0	0	0	0	0	0
9/6/2024 11:25	16103	BING_T2	0	0	0	0	0	0	-0.62	-0.64	2	2	0	1500	1500	0
9/6/2024 11:26	27502	WEIS_T2	0	0	0	0	0	0	-1.04	-1	0	0	0	0	0	0
9/6/2024 11:26	27503	WEIS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 11:27	46206	DANV_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/6/2024 11:27	46203	DANV_T2	1	1	0	7.8	7.7	-0.1	-0.63	-0.6	0	0	0	0	0	0
9/6/2024 11:27	11301	EMMA_T1	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
9/6/2024 11:27	11303	EMMA_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
9/6/2024 11:28	46206	DANV_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/6/2024 11:28	41902	REED_T1	0	0	0	0	0	0	1.15	1.18	0	0	0	0	0	0
9/6/2024 11:28	46203	DANV_T2	1	1	0	7.8	7.7	-0.1	-0.63	-0.6	0	0	0	0	0	0
9/6/2024 11:29	12605	MACA_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
9/6/2024 11:29	28701	HAML_T2	1	2	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
9/6/2024 11:29	55101	WERT_T1	0	0	0	0	0	0	-1.43	-1.35	3	3	0	2400	2400	0
9/6/2024 11:29	55507	HERS_T1	0	0	0	0	0	0	0.84	0.87	0	0	0	0	0	0
9/6/2024 11:29	12601	MACA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 11:29	28702	HAML_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
9/6/2024 11:29	22901	HARW_T1	0	0	0	0	0	0	-0.25	-0.33	1	1	0	1200	1200	0
9/6/2024 11:31	24702	FLND_T2	3	3	0	0.5	0.63	0.13	0	0	1	1	0	1200	1200	0
9/6/2024 11:32	53903	HALI_T2	2	2	0	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
9/6/2024 11:32	53901	HALI_T2	4	1	-3	0.55	1.3	0.75	-1.16	-1.14	0	0	0	0	0	0
9/6/2024 11:32	13503	MCMI_T2	4	8	4	0.63	0.45	-0.18	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 11:32	53902	HALI_T2	1	2	1	5.8	2.7	-3.1	0	0	0	0	0	0	0	0
9/6/2024 11:33	53903	HALI_T2	2	2	0	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
9/6/2024 11:33	43201	MVIL_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
9/6/2024 11:33	43202	MVIL_T2	49	31	-18	0.3	0.18	-0.12	-0.55	-0.52	0	0	0	0	0	0
9/6/2024 11:33	12701	MACU_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
9/6/2024 11:33	53902	HALI_T2	1	2	1	5.8	2.7	-3.1	0	0	0	0	0	0	0	0
9/6/2024 11:33	59301	MCAL_T1	3	4	1	0.73	0.93	0.2	-1.68	-1.68	1	1	0	600	600	0
9/6/2024 11:33	53901	HALI_T2	4	1	-3	0.55	1.3	0.75	-1.16	-1.14	0	0	0	0	0	0
9/6/2024 11:34	43201	MVIL_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
9/6/2024 11:34	63401	HONY_T1	0	0	0	0	0	0	-0.08	-0.11	1	1	0	600	600	0
9/6/2024 11:34	47203	FAXO_T2	0	0	0	0	0	0	-1.43	-1.43	1	1	0	1200	1200	0
9/6/2024 11:34	43202	MVIL_T2	49	31	-18	0.3	0.18	-0.12	-0.55	-0.52	0	0	0	0	0	0
9/6/2024 11:37	13704	SCHN_T2	1	1	0	0.6	0.3	-0.3	0.12	0.18	0	0	0	0	0	0
9/6/2024 11:37	62604	ENGL_T1	0	0	0	0	0	0	-0.63	-0.62	1	1	0	600	600	0
9/6/2024 11:38	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 11:43	28403	HART_T2	0	0	0	0	0	0	-0.56	-0.59	1	1	0	900	900	0
9/6/2024 11:43	23401	HONE_T2	0	0	0	0	0	0	0.2	0.24	0	0	0	0	0	0
9/6/2024 11:44	53901	HALI_T2	4	1	-3	0.55	1.3	0.75	-1.14	-1.14	0	0	0	0	0	0
9/6/2024 11:44	53903	HALI_T2	2	2	0	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
9/6/2024 11:44	53902	HALI_T2	1	2	1	5.8	2.7	-3.1	0	0	0	0	0	0	0	0
9/6/2024 11:46	41602	CLEV_T1	0	1	1	0	0.8	0.8	0	0	0	1	1	0	600	600
9/6/2024 11:46	67603	WARW_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/6/2024 11:46	67605	WARW_T1	14	14	0	0.42	0.46	0.04	-1.99	-2	0	0	0	0	0	0
9/6/2024 11:46	41601	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/6/2024 11:46	59102	WALK_T2	1	3	2	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
9/6/2024 11:46	59101	WALK_T2	2	2	0	0.5	0.85	0.35	1.27	1.39	0	0	0	0	0	0
9/6/2024 11:47	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 11:47	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/6/2024 11:47	54506	ENOL_T2	0	0	0	0	0	0	0.15	0.17	1	1	0	600	600	0
9/6/2024 11:48	22905	HARW_T1	0	1	1	0	0	0	-0.65	-0.66	0	0	0	0	0	0
9/6/2024 11:49	64503	LAVI_T1	0	0	0	0	0	0	-0.96	-0.98	1	1	0	1200	1200	0
9/6/2024 11:51	44203	POIN_T2	0	0	0	0	0	0	0.69	0.73	1	1	0	900	900	0
9/6/2024 11:51	65604	QVIL_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
9/6/2024 11:52	66505	SMAN_T2	0	0	0	0	0	0	0.38	0.31	2	2	0	1500	1500	0
9/6/2024 11:52	21705	SUBU_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
9/6/2024 11:52	21701	SUBU_T1	1	1	0	6.2	6.1	-0.1	0.87	0.87	0	0	0	0	0	0
9/6/2024 11:54	67502	WEWI_T2	2	9	7	0.5	0.57	0.07	-0.34	-0.3	0	0	0	0	0	0
9/6/2024 11:54	67503	WEWI_T2	1	1	0	8.9	8.8	-0.1	-0.08	-0.09	0	0	0	0	0	0
9/6/2024 11:55	46004	BERW_T2	0	1	1	0	0.5	0.5	-0.36	-0.27	0	0	0	0	0	0
9/6/2024 11:56	60103	COCA_T2	0	0	0	0	0	0	-1.1	-1.14	1	1	0	1200	1200	0
9/6/2024 11:56	29202	APPE_T1	3	7	4	0.67	0.47	-0.2	0	0	0	0	0	0	0	0
9/6/2024 11:56	29201	APPE_T1	1	1	0	0.5	1.2	0.7	0	0	0	0	0	0	0	0
9/6/2024 11:57	60801	BUCK_T1	0	3	3	0	0.17	0.17	0.03	-0.11	0	0	0	0	0	0
9/6/2024 11:58	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 11:58	52403	GRPA_T2	106	100	-6	1.13	1.07	-0.06	0	0	0	0	0	0	0	0
9/6/2024 11:58	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	-0.65	-0.64	1	1	0	600	600	0
9/6/2024 11:58	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 11:58	52402	GRPA_T2	10	11	1	0.57	0.36	-0.21	-0.79	-0.77	0	0	0	0	0	0
9/6/2024 11:59	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	-0.65	-0.64	1	1	0	600	600	0
9/6/2024 11:59	45702	LIND_T2	2	2	0	0.95	0.8	-0.15	-0.44	-0.4	0	0	0	0	0	0
9/6/2024 11:59	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 11:59	40101	HUNT_T2	0	1	1	0	0.1	0.1	-0.26	-0.28	0	0	0	0	0	0
9/6/2024 11:59	52402	GRPA_T2	10	11	1	0.57	0.36	-0.21	-0.79	-0.77	0	0	0	0	0	0
9/6/2024 11:59	52403	GRPA_T2	106	100	-6	1.13	1.07	-0.06	0	0	0	0	0	0	0	0
9/6/2024 11:59	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 11:59	45701	LIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 11:59	52401	GRPA_T2	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
9/6/2024 12:00	54504	ENOL_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/6/2024 12:00	22101	EDEL_T2	1	1	0	0.3	0.3	0	0.75	0.74	1	1	0	1200	1200	0
9/6/2024 12:00	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	-0.65	-0.64	1	1	0	600	600	0
9/6/2024 12:00	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 12:01	45702	LIND_T2	2	2	0	0.8	0.75	-0.05	-0.44	-0.4	0	0	0	0	0	0
9/6/2024 12:01	45701	LIND_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 12:02	65207	PRIN_T4	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/6/2024 12:02	55507	HERS_T1	0	0	0	0	0	0	0.83	0.8	0	0	0	0	0	0
9/6/2024 12:02	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 12:02	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	-0.65	-0.64	1	1	0	600	600	0
9/6/2024 12:02	54504	ENOL_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/6/2024 12:02	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 12:02	65206	PRIN_T4	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/6/2024 12:02	40101	HUNT_T2	0	1	1	0	0.1	0.1	-0.26	-0.28	0	0	0	0	0	0
9/6/2024 12:03	26401	INOR_T1	5	6	1	2.24	1.97	-0.27	0	0	0	0	0	0	0	0
9/6/2024 12:03	52403	GRPA_T2	97	99	2	1.04	1.06	0.02	0.05	-0.03	0	0	0	0	0	0
9/6/2024 12:03	52402	GRPA_T2	10	5	-5	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
9/6/2024 12:03	26402	INOR_T1	1	1	0	0.9	0.4	-0.5	-1.8	-1.74	1	1	0	600	600	0
9/6/2024 12:03	44202	POIN_T2	0	0	0	0	0	0	-0.7	-0.7	1	1	0	1200	1200	0
9/6/2024 12:03	40201	BEGA_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/6/2024 12:03	52004	LING_T2	2	3	1	5.55	4.13	-1.42	0.42	0.47	0	0	0	0	0	0
9/6/2024 12:04	53801	MBRG_T2	0	0	0	0	0	0	-0.32	-0.27	0	0	0	0	0	0
9/6/2024 12:04	46302	ROHR_T1	5	6	1	1.76	1.53	-0.23	0	0	0	0	0	0	0	0
9/6/2024 12:04	51201	MTON_T1	0	1	1	0	0.3	0.3	0.07	0.09	0	0	0	0	0	0
9/6/2024 12:04	15604	NSTR_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
9/6/2024 12:04	46301	ROHR_T1	8	7	-1	1.45	1.71	0.26	0.24	0.23	0	0	0	0	0	0
9/6/2024 12:05	23002	SAJO_T1	1	1	0	0.8	1.5	0.7	0	0	0	0	0	0	0	0
9/6/2024 12:05	64101	REFR_T1	1	2	1	0.8	0.5	-0.3	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 12:05	23001	SAJO_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
9/6/2024 12:06	62607	ENGL_T1	1	0	-1	0.4	0	-0.4	-0.62	-0.62	0	0	0	0	0	0
9/6/2024 12:06	24602	VARD_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/6/2024 12:06	24603	VARD_T2	7	7	0	0.66	0.73	0.07	0	0	0	0	0	0	0	0
9/6/2024 12:07	15604	NSTR_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
9/6/2024 12:08	55105	WERT_T1	0	0	0	0	0	0	-0.4	-0.32	1	1	0	900	900	0
9/6/2024 12:09	42903	MIDD_T2	0	3	3	0	0.1	0.1	0.79	0.71	0	0	0	0	0	0
9/6/2024 12:09	27504	WEIS_T1	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
9/6/2024 12:09	27502	WEIS_T2	1	0	-1	0.1	0	-0.1	-0.35	-0.02	0	0	0	0	0	0
9/6/2024 12:09	65901	SAKR_T2	1	1	0	6.9	6.6	-0.3	-0.1	-0.08	1	1	0	600	600	0
9/6/2024 12:09	27503	WEIS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/6/2024 12:09	51304	WIND_T2	1	1	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
9/6/2024 12:09	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 12:09	41602	CLEV_T1	1	2	1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
9/6/2024 12:09	41601	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/6/2024 12:10	67502	WEWI_T2	5	9	4	0.54	0.57	0.03	0	0	0	0	0	0	0	0
9/6/2024 12:10	67503	WEWI_T2	1	1	0	8.8	8.7	-0.1	-0.09	0.05	0	0	0	0	0	0
9/6/2024 12:11	51305	WIND_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
9/6/2024 12:11	67505	WEWI_T1	0	1	1	0	0.1	0.1	-0.04	0.05	1	1	0	900	900	0
9/6/2024 12:11	67501	WEWI_T1	2	2	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
9/6/2024 12:12	67502	WEWI_T2	5	9	4	0.54	0.57	0.03	0	0	0	0	0	0	0	0
9/6/2024 12:12	67503	WEWI_T2	1	1	0	8.8	8.7	-0.1	-0.09	0.05	0	0	0	0	0	0
9/6/2024 12:13	46402	FLEM_T2	3	1	-2	0.4	0.9	0.5	0.15	0.21	0	0	0	0	0	0
9/6/2024 12:13	46401	FLEM_T2	15	6	-9	0.55	1	0.45	0	0	0	0	0	0	0	0
9/6/2024 12:14	40802	EXCH_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/6/2024 12:14	45902	AUBU_T1	7	10	3	0.43	0.61	0.18	0	0	0	0	0	0	0	0
9/6/2024 12:14	40801	EXCH_T2	1	1	0	0.2	0.3	0.1	-0.36	-0.31	1	1	0	1200	1200	0
9/6/2024 12:14	45901	AUBU_T1	6	16	10	0.18	0.18	0	1.04	1.06	0	0	0	0	0	0
9/6/2024 12:14	46401	FLEM_T2	15	6	-9	0.55	1	0.45	0	0	0	0	0	0	0	0
9/6/2024 12:14	46402	FLEM_T2	3	1	-2	0.4	0.9	0.5	0.15	0.21	0	0	0	0	0	0
9/6/2024 12:15	41002	LAUR_T2	1	1	0	2	1.6	-0.4	0.08	0.09	0	0	0	0	0	0
9/6/2024 12:15	41001	LAUR_T2	2	2	0	0.9	1.55	0.65	0	0	0	0	0	0	0	0
9/6/2024 12:15	11205	ELHE_T1	0	0	0	0	0	0	-0.41	-0.36	1	1	0	1200	1200	0
9/6/2024 12:15	45901	AUBU_T1	16	8	-8	0.17	0.23	0.06	1.04	1.06	0	0	0	0	0	0
9/6/2024 12:15	45902	AUBU_T1	10	7	-3	0.61	0.44	-0.17	-0.52	-0.49	1	1	0	600	600	0
9/6/2024 12:16	63501	HEID_TBK1-2	47	34	-13	0.6	0.35	-0.25	-0.09	-0.08	1	1	0	900	900	0
9/6/2024 12:16	41902	REED_T1	0	1	1	0	0.3	0.3	1.15	1.23	0	0	0	0	0	0
9/6/2024 12:17	42903	MIDD_T2	3	0	-3	0.1	0	-0.1	0.79	0.71	0	0	0	0	0	0
9/6/2024 12:18	64701	LITI_T1	0	0	0	0	0	0	0.37	0.44	0	0	0	0	0	0
9/6/2024 12:18	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 12:18	41902	REED_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/6/2024 12:19	42802	SELI_T1	1	0	-1	0.1	0	-0.1	-0.78	-0.83	1	1	0	900	900	0
9/6/2024 12:19	66901	SHIL_T2	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
9/6/2024 12:19	64802	MONE_T2	2	2	0	0.6	0.95	0.35	0.3	0.28	0	0	0	0	0	0
9/6/2024 12:19	66902	SHIL_T2	0	2	2	0	0.7	0.7	-0.81	-1.59	0	0	0	0	0	0
9/6/2024 12:19	66903	SHIL_T2	1	1	0	1	1.5	0.5	0	0	0	0	0	0	0	0
9/6/2024 12:20	42902	MIDD_T2	0	0	0	0	0	0	-0.46	-0.29	1	1	0	600	600	0
9/6/2024 12:20	42903	MIDD_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 12:20	42802	SELI_T1	1	0	-1	0.1	0	-0.1	-0.78	-0.83	1	1	0	900	900	0
9/6/2024 12:20	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/6/2024 12:20	53501	EVIL_T2	3	2	-1	0.47	0.65	0.18	-0.01	-0.01	1	1	0	600	600	0
9/6/2024 12:20	56501	ROCK_T2	4	0	-4	0.35	0.28	-0.07	0.24	0.33	0	0	0	0	0	0
9/6/2024 12:21	53501	EVIL_T2	3	2	-1	0.47	0.65	0.18	-0.01	-0.01	1	1	0	600	600	0
9/6/2024 12:21	42201	SHEN_T2	0	1	1	0	0.5	0.5	0.44	0.45	0	0	0	0	0	0
9/6/2024 12:21	17002	RIRO_T2	2	0	-2	0.2	0	-0.2	0.78	0.74	0	0	0	0	0	0
9/6/2024 12:21	52102	MEIS_T1	0	2	2	0	0.5	0.5	0	0	1	1	0	450	450	0
9/6/2024 12:22	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/6/2024 12:22	42302	MOWR_T2	0	0	0	0	0	0	0.18	0.11	0	0	0	0	0	0
9/6/2024 12:22	56501	ROCK_T2	4	4	0	0.35	0.28	-0.07	0.33	0.39	0	0	0	0	0	0
9/6/2024 12:22	14404	SSLA_T1	0	3	3	0	0.53	0.53	0.28	0.26	0	0	0	0	0	0
9/6/2024 12:22	14402	SSLA_T1	3	7	4	0.27	0.44	0.17	0	0	0	0	0	0	0	0
9/6/2024 12:22	14401	SSLA_T1	1	5	4	0.1	0.46	0.36	0	0	0	0	0	0	0	0
9/6/2024 12:22	14403	SSLA_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
9/6/2024 12:23	67801	WLAN_T1	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
9/6/2024 12:23	67803	WLAN_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
9/6/2024 12:23	67804	WLAN_T1	4	2	-2	0.55	0.65	0.1	0	0	0	0	0	0	0	0
9/6/2024 12:24	67803	WLAN_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
9/6/2024 12:24	14401	SSLA_T1	1	5	4	0.1	0.46	0.36	0	0	0	0	0	0	0	0
9/6/2024 12:24	67804	WLAN_T1	4	2	-2	0.55	0.65	0.1	0	0	0	0	0	0	0	0
9/6/2024 12:24	14402	SSLA_T1	3	7	4	0.27	0.44	0.17	0	0	0	0	0	0	0	0
9/6/2024 12:24	46001	BERW_T1	0	3	3	0	0.23	0.23	1.11	0.91	0	0	0	0	0	0
9/6/2024 12:24	67805	WLAN_T1	0	0	0	0	0	0	-0.68	-0.61	0	0	0	0	0	0
9/6/2024 12:24	46005	BERW_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
9/6/2024 12:24	14403	SSLA_T1	0	2	2	0	0.3	0.3	1.08	1.06	0	0	0	0	0	0
9/6/2024 12:24	42802	SELI_T1	1	0	-1	0.1	0	-0.1	2.48	2.41	3	3	0	2700	2700	0
9/6/2024 12:24	53501	EVIL_T2	3	2	-1	0.47	0.65	0.18	-0.01	-0.01	1	2	1	600	1500	900
9/6/2024 12:24	14404	SSLA_T1	0	3	3	0	0.53	0.53	0	0	0	0	0	0	0	0
9/6/2024 12:25	67904	WNHO_T1	0	0	0	0	0	0	-1.94	-1.95	2	2	0	2100	2100	0
9/6/2024 12:25	60101	COCA_T1	0	0	0	0	0	0	0.48	0.53	0	0	0	0	0	0
9/6/2024 12:25	14403	SSLA_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
9/6/2024 12:25	14402	SSLA_T1	3	7	4	0.27	0.44	0.17	0	0	0	0	0	0	0	0
9/6/2024 12:25	67804	WLAN_T1	4	2	-2	0.55	0.65	0.1	-1.01	-1	0	0	0	0	0	0
9/6/2024 12:25	67803	WLAN_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
9/6/2024 12:25	14404	SSLA_T1	0	3	3	0	0.53	0.53	0.28	0.26	0	0	0	0	0	0
9/6/2024 12:25	42802	SELI_T1	1	0	-1	0.1	0	-0.1	-0.83	-0.8	1	1	0	900	900	0
9/6/2024 12:25	14401	SSLA_T1	1	5	4	0.1	0.46	0.36	-0.23	-0.2	0	0	0	0	0	0
9/6/2024 12:26	67803	WLAN_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
9/6/2024 12:26	67804	WLAN_T1	4	2	-2	0.55	0.65	0.1	0	0	0	0	0	0	0	0
9/6/2024 12:26	67801	WLAN_T1	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
9/6/2024 12:26	43301	WATS_T2	1	1	0	0.3	0.4	0.1	-0.54	-0.51	1	1	0	900	900	0
9/6/2024 12:27	67803	WLAN_T1	2	1	-1	0.35	0.2	-0.15	-0.78	-0.78	0	0	0	0	0	0
9/6/2024 12:27	15203	SFAR_T2	3	2	-1	0.33	0.55	0.22	-0.87	-0.88	0	0	0	0	0	0
9/6/2024 12:27	67804	WLAN_T1	4	2	-2	0.55	0.65	0.1	0	0	0	0	0	0	0	0
9/6/2024 12:28	46005	BERW_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
9/6/2024 12:28	46001	BERW_T1	0	3	3	0	0.23	0.23	1.11	0.91	0	0	0	0	0	0
9/6/2024 12:28	10903	COOP_T2	1	1	0	0.2	1.1	0.9	0.23	0.41	1	1	0	600	600	0
9/6/2024 12:30	47101	MARL_T1	0	0	0	0	0	0	-0.21	-0.15	0	0	0	0	0	0
9/6/2024 12:30	21501	CEAV_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/6/2024 12:31	41902	REED_T1	0	1	1	0	0.3	0.3	1.23	0.47	0	1	1	0	900	900
9/6/2024 12:31	52004	LING_T2	3	2	-1	3.97	5.45	1.48	0.44	0.45	0	0	0	0	0	0
9/6/2024 12:32	47104	MARL_T1	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
9/6/2024 12:32	53803	MBRG_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/6/2024 12:33	40101	HUNT_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 12:34	52004	LING_T2	3	2	-1	3.97	5.45	1.48	0.44	0.45	0	0	0	0	0	0
9/6/2024 12:35	54202	PENN_T2	0	0	0	0	0	0	-0.79	-0.7	0	0	0	0	0	0
9/6/2024 12:35	44201	POIN_T1	0	0	0	0	0	0	-1.31	-1.16	2	2	0	2100	2100	0
9/6/2024 12:35	54206	PENN_T2	1	0	-1	0.2	0	-0.2	0.34	0.34	0	0	0	0	0	0
9/6/2024 12:36	56504	ROCK_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/6/2024 12:36	64902	MILL_T2	0	0	0	0	0	0	-0.4	-0.37	1	1	0	900	900	0
9/6/2024 12:36	56501	ROCK_T2	4	4	0	0.3	0.18	-0.12	0.16	0.19	0	0	0	0	0	0
9/6/2024 12:36	53803	MBRG_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
9/6/2024 12:36	42802	SELI_T1	0	0	0	0	0	0	-0.8	-0.69	1	1	0	900	900	0
9/6/2024 12:36	53501	EVIL_T2	2	1	-1	0.65	0.9	0.25	-0.01	-0.01	1	2	1	600	1500	900
9/6/2024 12:37	45602	WOOL_T1	2	4	2	0.25	0.35	0.1	0.78	0.79	0	0	0	0	0	0
9/6/2024 12:37	54206	PENN_T2	1	0	-1	0.2	0	-0.2	0.34	0.34	0	0	0	0	0	0
9/6/2024 12:37	54201	PENN_T1	8	4	-4	0.63	0.95	0.32	-0.79	-0.72	0	0	0	0	0	0
9/6/2024 12:37	42201	SHEN_T2	1	2	1	0.1	0.4	0.3	0.45	0.45	0	0	0	0	0	0
9/6/2024 12:37	54203	PENN_T1	18	17	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
9/6/2024 12:38	56504	ROCK_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/6/2024 12:38	55101	WERT_T1	0	0	0	0	0	0	-2.61	-2.46	6	6	0	4800	4800	0
9/6/2024 12:38	56501	ROCK_T2	4	4	0	0.3	0.18	-0.12	0.19	0.24	0	0	0	0	0	0
9/6/2024 12:39	59101	WALK_T2	1	1	0	2.9	1.1	-1.8	1.54	1.65	0	0	0	0	0	0
9/6/2024 12:39	25603	ARRO_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
9/6/2024 12:39	66501	SMAN_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
9/6/2024 12:39	60101	COCA_T1	0	0	0	0	0	0	0.53	0.57	0	0	0	0	0	0
9/6/2024 12:39	59102	WALK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/6/2024 12:39	66502	SMAN_T2	1	5	4	0.8	0.44	-0.36	0.45	0.25	0	0	0	0	0	0
9/6/2024 12:39	42802	SELI_T1	0	0	0	0	0	0	-1.61	-1.39	2	2	0	1800	1800	0
9/6/2024 12:40	67502	WEWI_T2	5	5	0	0.76	0.72	-0.04	-0.26	-0.19	0	0	0	0	0	0
9/6/2024 12:40	59101	WALK_T2	1	1	0	2.9	1.1	-1.8	1.54	1.65	0	0	0	0	0	0
9/6/2024 12:40	46005	BERW_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
9/6/2024 12:40	59102	WALK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/6/2024 12:40	46001	BERW_T1	1	3	2	0.1	0.23	0.13	0.91	0.93	0	0	0	0	0	0
9/6/2024 12:40	67503	WEWI_T2	1	1	0	8.3	8.2	-0.1	0	0	0	0	0	0	0	0
9/6/2024 12:40	42802	SELI_T1	0	0	0	0	0	0	-0.8	-0.69	1	1	0	900	900	0
9/6/2024 12:40	61001	DONV_T1	0	1	1	0	0.5	0.5	-0.11	-0.04	0	0	0	0	0	0
9/6/2024 12:40	45402	WBLO_T2	46	46	0	0.29	0.25	-0.04	-0.98	-1	1	1	0	900	900	0
9/6/2024 12:41	57004	WHHI_T2	0	0	0	0	0	0	-0.13	-0.79	0	0	0	0	0	0
9/6/2024 12:41	10102	ALLE_T2	1	1	0	7.5	7.1	-0.4	0	0	0	0	0	0	0	0
9/6/2024 12:41	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 12:41	62105	ELAN_T1	2	3	1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
9/6/2024 12:41	25603	ARRO_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
9/6/2024 12:41	67503	WEWI_T2	1	1	0	8.3	8.2	-0.1	0	0	0	0	0	0	0	0
9/6/2024 12:41	62101	ELAN_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
9/6/2024 12:41	67502	WEWI_T2	5	5	0	0.76	0.72	-0.04	-0.26	-0.19	0	0	0	0	0	0
9/6/2024 12:41	41501	FAIR_T2	0	0	0	0	0	0	-0.83	-0.83	1	1	0	600	600	0
9/6/2024 12:41	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 12:41	10206	ALLE_T2	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
9/6/2024 12:41	62102	ELAN_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
9/6/2024 12:42	67503	WEWI_T2	1	1	0	8.3	8.2	-0.1	-0.03	0.01	0	0	0	0	0	0
9/6/2024 12:42	67502	WEWI_T2	5	5	0	0.76	0.72	-0.04	0	0	0	0	0	0	0	0
9/6/2024 12:42	60101	COCA_T1	0	0	0	0	0	0	1.07	1.13	0	0	0	0	0	0
9/6/2024 12:43	46005	BERW_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
9/6/2024 12:43	56501	ROCK_T2	4	4	0	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
9/6/2024 12:43	56504	ROCK_T2	1	1	0	0.5	0.5	0	0.01	0.04	0	0	0	0	0	0
9/6/2024 12:43	59102	WALK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/6/2024 12:43	46001	BERW_T1	1	3	2	0.1	0.23	0.13	0.91	0.93	0	0	0	0	0	0
9/6/2024 12:43	59101	WALK_T2	1	1	0	2.9	1.1	-1.8	1.54	1.65	0	0	0	0	0	0
9/6/2024 12:43	60101	COCA_T1	0	0	0	0	0	0	0.53	0.57	0	0	0	0	0	0
9/6/2024 12:44	46206	DANV_T2	1	1	0	0.6	0.5	-0.1	1.47	1.48	1	1	0	1200	1200	0
9/6/2024 12:44	46203	DANV_T2	1	3	2	7.5	2.83	-4.67	0	0	0	0	0	0	0	0
9/6/2024 12:45	61501	EPET_T2	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
9/6/2024 12:45	10801	CHHI_T1	2	1	-1	0.4	0	-0.4	-0.26	-0.27	1	1	0	900	900	0
9/6/2024 12:45	41301	FISH_T1	3	4	1	1.73	1.75	0.02	-0.02	-0.02	0	0	0	0	0	0
9/6/2024 12:45	61504	EPET_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
9/6/2024 12:46	57403	SPAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/6/2024 12:46	16002	DORN_T2	0	0	0	0	0	0	-0.45	-0.39	1	1	0	1200	1200	0
9/6/2024 12:46	57401	SPAN_T1	2	3	1	0.5	0.8	0.3	-0.22	-0.21	1	1	0	600	600	0
9/6/2024 12:47	50107	HARR_T3	1	1	0	7.6	7	-0.6	0	0	0	0	0	0	0	0
9/6/2024 12:47	12802	MICK_T1	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
9/6/2024 12:47	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 12:47	50201	HARR_T3	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/6/2024 12:47	50105	HARR_T3	6	6	0	7.03	7.12	0.09	0	0	0	0	0	0	0	0
9/6/2024 12:47	64101	REFR_T1	0	1	1	0	0.4	0.4	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 12:47	60504	NMAN_T2	3	2	-1	1.27	0.5	-0.77	0	0	0	0	0	0	0	0
9/6/2024 12:47	12807	MICK_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/6/2024 12:48	55101	WERT_T1	0	0	0	0	0	0	-1.31	-1.23	3	3	0	2400	2400	0
9/6/2024 12:48	20601	GRWO_T2	2	6	4	0.3	0.2	-0.1	0.99	1.04	0	0	0	0	0	0
9/6/2024 12:49	50501	MECH_T1	4	4	0	0.23	0.85	0.62	0	0	0	0	0	0	0	0
9/6/2024 12:49	61502	EPET_T1	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
9/6/2024 12:49	64101	REFR_T1	0	1	1	0	0.4	0.4	-0.02	-0.02	0	0	0	0	0	0
9/6/2024 12:49	50502	MECH_T1	1	2	1	1.9	1.4	-0.5	-0.19	-0.21	1	1	0	1200	1200	0
9/6/2024 12:50	47403	PENS_T1	1	2	1	1.5	0.95	-0.55	0	0	0	0	0	0	0	0
9/6/2024 12:50	64101	REFR_T1	0	1	1	0	0.4	0.4	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 12:50	47401	PENS_T1	1	2	1	0.4	1.2	0.8	1.47	-0.79	0	0	0	0	0	0
9/6/2024 12:50	60504	NMAN_T2	3	2	-1	1.27	0.5	-0.77	0	0	0	0	0	0	0	0
9/6/2024 12:51	47401	PENS_T1	1	2	1	0.4	1.2	0.8	-0.39	0.92	0	0	0	0	0	0
9/6/2024 12:51	47202	FAXO_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
9/6/2024 12:51	60301	TWVA_T2	0	0	0	0	0	0	-2.79	-2.85	2	2	0	1800	1800	0
9/6/2024 12:51	60504	NMAN_T2	3	2	-1	1.27	0.5	-0.77	0	0	0	0	0	0	0	0
9/6/2024 12:51	60502	NMAN_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
9/6/2024 12:51	64101	REFR_T1	0	1	1	0	0.4	0.4	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 12:51	47403	PENS_T1	1	2	1	1.5	0.95	-0.55	0	0	0	0	0	0	0	0
9/6/2024 12:52	67002	STHI_T2	0	0	0	0	0	0	0.37	0.31	1	1	0	600	600	0
9/6/2024 12:52	44203	POIN_T2	0	0	0	0	0	0	0.7	0.88	1	1	0	900	900	0
9/6/2024 12:52	47401	PENS_T1	1	2	1	0.4	1.2	0.8	-0.39	0.92	0	0	0	0	0	0
9/6/2024 12:52	47403	PENS_T1	1	2	1	1.5	0.95	-0.55	0	0	0	0	0	0	0	0
9/6/2024 12:52	66502	SMAN_T2	3	3	0	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
9/6/2024 12:52	66501	SMAN_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
9/6/2024 12:52	26001	WDAM_T1	0	0	0	0	0	0	-0.68	-0.55	0	0	0	0	0	0
9/6/2024 12:52	66504	SMAN_T2	0	0	0	0	0	0	-0.59	-0.53	0	0	0	0	0	0
9/6/2024 12:53	54203	PENN_T1	17	5	-12	0.2	0.52	0.32	0	0	0	0	0	0	0	0
9/6/2024 12:53	58705	ROSE_T2	5	5	0	1.68	1.86	0.18	0	0	0	0	0	0	0	0
9/6/2024 12:53	58706	ROSE_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 12:53	64101	REFR_T1	0	1	1	0	0.4	0.4	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 12:53	58703	ROSE_T2	0	0	0	0	0	0	-1.37	-1.37	0	0	0	0	0	0
9/6/2024 12:53	54201	PENN_T1	4	3	-1	0.95	1.17	0.22	-0.72	-0.75	0	0	0	0	0	0
9/6/2024 12:54	53901	HALI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/6/2024 12:54	53902	HALI_T2	2	3	1	2.4	1.9	-0.5	-0.06	-0.1	0	0	0	0	0	0
9/6/2024 12:54	67702	WERN_T2	2	1	-1	0.3	0.8	0.5	0.25	0.28	0	0	0	0	0	0
9/6/2024 12:54	64101	REFR_T1	0	1	1	0	0.4	0.4	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 12:54	14705	TREX_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
9/6/2024 12:54	57403	SPAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/6/2024 12:54	66504	SMAN_T2	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
9/6/2024 12:54	53903	HALI_T2	3	3	0	0.77	0.63	-0.14	0	0	0	0	0	0	0	0
9/6/2024 12:54	57401	SPAN_T1	2	3	1	0.5	0.8	0.3	-0.41	0.25	2	2	0	1200	1200	0
9/6/2024 12:54	66502	SMAN_T2	3	3	0	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
9/6/2024 12:54	67703	WERN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/6/2024 12:54	66501	SMAN_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
9/6/2024 12:55	57401	SPAN_T1	2	3	1	0.5	0.8	0.3	-0.41	0.25	2	2	0	1200	1200	0
9/6/2024 12:55	57403	SPAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/6/2024 12:55	60101	COCA_T1	0	0	0	0	0	0	0.57	0.6	0	0	0	0	0	0
9/6/2024 12:56	43105	SMIL_T2	7	3	-4	0.33	0.67	0.34	0	0	0	0	0	0	0	0
9/6/2024 12:56	43104	SMIL_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/6/2024 12:56	62102	ELAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/6/2024 12:56	59201	THOM_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/6/2024 12:56	62101	ELAN_T1	1	1	0	1.3	0.9	-0.4	3.6	3.62	0	0	0	0	0	0
9/6/2024 12:56	59202	THOM_T1	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/6/2024 12:56	55101	WERT_T1	0	0	0	0	0	0	-1.23	-1.09	3	3	0	2400	2400	0
9/6/2024 12:56	62105	ELAN_T1	2	2	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
9/6/2024 12:56	61504	EPET_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
9/6/2024 12:56	43103	SMIL_T2	18	15	-3	0.5	0.46	-0.04	0	0	0	0	0	0	0	0
9/6/2024 12:56	57403	SPAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/6/2024 12:56	61501	EPET_T2	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
9/6/2024 12:56	43102	SMIL_T2	6	7	1	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
9/6/2024 12:56	57401	SPAN_T1	2	3	1	0.5	0.8	0.3	-0.21	0.12	1	1	0	600	600	0
9/6/2024 12:56	43108	SMIL_T2	0	0	0	0	0	0	-0.11	-0.25	1	1	0	1200	1200	0
9/6/2024 12:56	43101	SMIL_T2	1	2	1	0.2	0.65	0.45	0	0	0	0	0	0	0	0
9/6/2024 12:57	61501	EPET_T2	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
9/6/2024 12:57	61504	EPET_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
9/6/2024 12:57	60101	COCA_T1	0	0	0	0	0	0	0.57	0.6	0	0	0	0	0	0
9/6/2024 12:57	67602	WARW_T2	0	0	0	0	0	0	0.46	0.33	1	1	0	300	300	0
9/6/2024 12:58	67602	WARW_T2	0	0	0	0	0	0	0.46	0.33	1	1	0	300	300	0
9/6/2024 12:58	11104	EGYP_T1	0	0	0	0	0	0	0.78	0.84	0	0	0	0	0	0
9/6/2024 12:58	63804	HEMP_T1	1	1	0	6.7	6.9	0.2	0	0	0	0	0	0	0	0
9/6/2024 12:58	61501	EPET_T2	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
9/6/2024 12:58	21206	ECAR_T2	1	1	0	7.3	7.1	-0.2	0.62	0.56	0	0	0	0	0	0
9/6/2024 12:58	63802	HEMP_T1	0	0	0	0	0	0	0.35	0.41	0	0	0	0	0	0
9/6/2024 12:58	61504	EPET_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
9/6/2024 12:58	63801	HEMP_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/6/2024 12:58	11102	EGYP_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
9/6/2024 12:58	11202	ELHE_T2	0	0	0	0	0	0	0.61	0.63	0	0	0	0	0	0
9/6/2024 12:58	11101	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 12:58	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 12:59	11102	EGYP_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
9/6/2024 12:59	59201	THOM_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/6/2024 12:59	20601	GRWO_T2	2	6	4	0.3	0.2	-0.1	1.04	1.05	0	0	0	0	0	0
9/6/2024 12:59	11104	EGYP_T1	0	0	0	0	0	0	0.78	0.84	0	0	0	0	0	0
9/6/2024 12:59	59202	THOM_T1	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/6/2024 12:59	11101	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 12:59	46802	HEPB_T1	1	2	1	0.8	0.6	-0.2	-0.15	-0.15	0	0	0	0	0	0
9/6/2024 13:00	45802	HEGI_T2	8	22	14	0.2	0.43	0.23	0.73	0.7	0	0	0	0	0	0
9/6/2024 13:01	45802	HEGI_T2	8	22	14	0.2	0.43	0.23	0.73	0.7	0	0	0	0	0	0
9/6/2024 13:02	44701	MUNC_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 13:02	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/6/2024 13:02	44703	MUNC_T2	0	0	0	0	0	0	1.02	0.95	0	0	0	0	0	0
9/6/2024 13:02	40101	HUNT_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
9/6/2024 13:03	11102	EGYP_T1	2	3	1	0.25	0.47	0.22	0	0	0	0	0	0	0	0
9/6/2024 13:03	53901	HALI_T2	1	1	0	0.4	0.7	0.3	-2.15	-2.13	0	0	0	0	0	0
9/6/2024 13:03	11104	EGYP_T1	0	0	0	0	0	0	0.78	0.84	0	0	0	0	0	0
9/6/2024 13:03	53903	HALI_T2	3	2	-1	0.63	0.95	0.32	0	0	0	0	0	0	0	0
9/6/2024 13:03	11101	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 13:03	53902	HALI_T2	3	3	0	1.9	1.83	-0.07	0	0	0	0	0	0	0	0
9/6/2024 13:04	44701	MUNC_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 13:04	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 13:05	58706	ROSE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 13:05	58705	ROSE_T2	5	5	0	1.86	1.84	-0.02	0	0	0	0	0	0	0	0
9/6/2024 13:05	66501	SMAN_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
9/6/2024 13:05	58703	ROSE_T2	0	0	0	0	0	0	-1.37	-1.37	0	0	0	0	0	0
9/6/2024 13:05	66502	SMAN_T2	3	7	4	0.43	0.34	-0.09	0	0	0	0	0	0	0	0
9/6/2024 13:05	66504	SMAN_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/6/2024 13:06	13701	SCHN_T2	0	2	2	0	0.2	0.2	0.34	0.36	1	1	0	600	600	0
9/6/2024 13:06	57201	ROSS_T1	0	0	0	0	0	0	-2.34	-2.29	0	0	0	0	0	0
9/6/2024 13:06	13704	SCHN_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/6/2024 13:06	57205	ROSS_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
9/6/2024 13:07	56501	ROCK_T2	4	3	-1	0.18	0.1	-0.08	0.23	0.28	0	0	0	0	0	0
9/6/2024 13:07	45601	WOOL_T1	0	0	0	0	0	0	-0.07	-0.1	1	1	0	1200	1200	0
9/6/2024 13:07	45602	WOOL_T1	3	3	0	0.3	0.37	0.07	0	0	0	0	0	0	0	0
9/6/2024 13:07	56504	ROCK_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/6/2024 13:08	66501	SMAN_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
9/6/2024 13:08	55101	WERT_T1	0	0	0	0	0	0	-2.19	-2.18	6	6	0	4800	4800	0
9/6/2024 13:08	66504	SMAN_T2	0	1	1	0	0.8	0.8	-0.27	-0.09	0	0	0	0	0	0
9/6/2024 13:08	66502	SMAN_T2	3	7	4	0.43	0.34	-0.09	0	0	0	0	0	0	0	0
9/6/2024 13:08	21705	SUBU_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
9/6/2024 13:08	21701	SUBU_T1	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
9/6/2024 13:08	21704	SUBU_T1	0	0	0	0	0	0	-2.12	-2.03	2	2	0	2400	2400	0
9/6/2024 13:09	14403	SSLA_T1	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
9/6/2024 13:09	14404	SSLA_T1	4	5	1	0.25	0.42	0.17	0	0	0	0	0	0	0	0
9/6/2024 13:09	14401	SSLA_T1	1	4	3	0.8	0.65	-0.15	-0.25	-0.18	0	0	0	0	0	0
9/6/2024 13:09	14402	SSLA_T1	6	8	2	0.45	0.45	0	0	0	0	0	0	0	0	0
9/6/2024 13:10	56504	ROCK_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/6/2024 13:10	66504	SMAN_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/6/2024 13:10	66502	SMAN_T2	3	7	4	0.43	0.34	-0.09	0	0	0	0	0	0	0	0
9/6/2024 13:10	66501	SMAN_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
9/6/2024 13:10	56501	ROCK_T2	4	3	-1	0.18	0.1	-0.08	0.23	0.28	0	0	0	0	0	0
9/6/2024 13:11	61803	EELI_T2	0	1	1	0	0.3	0.3	0.56	0.62	1	1	0	600	600	0
9/6/2024 13:11	61801	EELI_T2	0	6	6	0	0.37	0.37	0	0	0	0	0	0	0	0
9/6/2024 13:12	62101	ELAN_T1	1	2	1	1	0.45	-0.55	0	0	0	0	0	0	0	0
9/6/2024 13:12	62105	ELAN_T1	2	3	1	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
9/6/2024 13:12	62106	ELAN_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
9/6/2024 13:12	62102	ELAN_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/6/2024 13:13	45902	AUBU_T1	1	5	4	1.5	0.7	-0.8	-0.41	-0.42	1	1	0	600	600	0
9/6/2024 13:13	62105	ELAN_T1	2	3	1	0.55	0.47	-0.08	0.58	0.57	0	0	0	0	0	0
9/6/2024 13:13	62101	ELAN_T1	1	2	1	1	0.45	-0.55	0	0	0	0	0	0	0	0
9/6/2024 13:13	45901	AUBU_T1	3	3	0	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
9/6/2024 13:13	62102	ELAN_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/6/2024 13:13	55101	WERT_T1	0	0	0	0	0	0	-1.09	-1.09	3	3	0	2400	2400	0
9/6/2024 13:13	67602	WARW_T2	0	0	0	0	0	0	0.33	0.4	1	1	0	300	300	0
9/6/2024 13:14	11101	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 13:14	11102	EGYP_T1	2	3	1	0.25	0.47	0.22	0	0	0	0	0	0	0	0
9/6/2024 13:14	11104	EGYP_T1	0	0	0	0	0	0	1.68	1.68	0	0	0	0	0	0
9/6/2024 13:14	67602	WARW_T2	0	0	0	0	0	0	0.66	0.8	2	2	0	600	600	0
9/6/2024 13:15	63801	HEMP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/6/2024 13:15	40101	HUNT_T2	0	1	1	0	0.3	0.3	-0.28	-0.25	0	0	0	0	0	0
9/6/2024 13:15	63804	HEMP_T1	1	1	0	7	7	0	-0.31	-0.34	0	0	0	0	0	0
9/6/2024 13:15	48302	ORWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 13:16	20601	GRWO_T2	1	6	5	1.3	0.8	-0.5	1.05	1.08	0	0	0	0	0	0
9/6/2024 13:17	41001	LAUR_T2	2	2	0	1	1.25	0.25	0	0	0	0	0	0	0	0
9/6/2024 13:17	12703	MACU_T2	0	0	0	0	0	0	-0.59	-0.53	0	0	0	0	0	0
9/6/2024 13:17	41002	LAUR_T2	1	1	0	1.5	1.3	-0.2	0.1	0.12	0	0	0	0	0	0
9/6/2024 13:17	12705	MACU_T2	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
9/6/2024 13:18	12703	MACU_T2	0	0	0	0	0	0	-0.59	-0.53	0	0	0	0	0	0
9/6/2024 13:18	53501	EVIL_T2	3	2	-1	0.67	1	0.33	-0.01	-0.01	2	2	0	1500	1500	0
9/6/2024 13:18	12705	MACU_T2	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
9/6/2024 13:19	65604	QVIL_T2	0	0	0	0	0	0	0.48	0.51	0	0	0	0	0	0
9/6/2024 13:19	53802	MBRG_T2	0	0	0	0	0	0	0.45	0.55	0	0	0	0	0	0
9/6/2024 13:20	13105	NHAM_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	1200	1200	0
9/6/2024 13:20	57401	SPAN_T1	2	2	0	0.5	0.75	0.25	0.12	0.67	1	0	-1	600	0	-600
9/6/2024 13:20	57403	SPAN_T1	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
9/6/2024 13:22	67001	STHI_T2	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
9/6/2024 13:22	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 13:22	14801	TREI_T2	3	3	0	0.57	0.53	-0.04	0.72	0.76	0	0	0	0	0	0
9/6/2024 13:22	14802	TREI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/6/2024 13:23	57205	ROSS_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
9/6/2024 13:23	57203	ROSS_T1	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
9/6/2024 13:24	15703	TANN_T2	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
9/6/2024 13:24	15702	TANN_T2	1	2	1	1	0.55	-0.45	-0.12	-0.09	0	0	0	0	0	0
9/6/2024 13:25	60901	DONG_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/6/2024 13:25	60904	DONG_T2	2	2	0	0.65	0.75	0.1	0	0	0	0	0	0	0	0
9/6/2024 13:25	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 13:26	57205	ROSS_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
9/6/2024 13:26	25603	ARRO_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 13:26	57203	ROSS_T1	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
9/6/2024 13:26	66501	SMAN_T2	2	2	0	0.45	0.65	0.2	0	0	0	0	0	0	0	0
9/6/2024 13:26	66504	SMAN_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/6/2024 13:26	66502	SMAN_T2	3	7	4	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
9/6/2024 13:28	61803	EELI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/6/2024 13:28	61801	EELI_T2	0	6	6	0	0.37	0.37	-0.5	-0.45	1	1	0	600	600	0
9/6/2024 13:28	55508	HERS_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
9/6/2024 13:29	50105	HARR_T3	6	6	0	7.25	7.02	-0.23	0	0	0	0	0	0	0	0
9/6/2024 13:29	50103	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 13:29	50107	HARR_T3	1	1	0	7	7	0	0	0	0	0	0	0	0	0
9/6/2024 13:29	50201	HARR_T3	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/6/2024 13:30	67603	WARW_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/6/2024 13:30	63602	LETO_T1	3	1	-2	0.47	1	0.53	-0.41	-0.27	0	0	0	0	0	0
9/6/2024 13:30	63802	HEMP_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
9/6/2024 13:30	63801	HEMP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/6/2024 13:30	67605	WARW_T1	12	7	-5	0.37	0.59	0.22	-0.95	-0.92	0	0	0	0	0	0
9/6/2024 13:30	63804	HEMP_T1	1	1	0	7	6.9	-0.1	0	0	0	0	0	0	0	0
9/6/2024 13:30	63601	LETO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 13:31	41902	REED_T1	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
9/6/2024 13:31	52403	REED_T1	0	0	0	0	0	0	2.54	2.53	0	0	0	0	0	0
9/6/2024 13:33	52403	GRPA_T2	12	12	0	0.6	0.52	-0.08	-0.04	-0.02	0	0	0	0	0	0
9/6/2024 13:33	52402	GRPA_T2	5	6	1	0.26	0.32	0.06	0	0	0	0	0	0	0	0
9/6/2024 13:34	13501	MCMI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 13:34	65601	QVIL_T2	0	0	0	0	0	0	-0.72	-0.65	1	1	0	900	900	0
9/6/2024 13:34	64902	MILL_T2	0	0	0	0	0	0	-0.36	-0.38	1	1	0	900	900	0
9/6/2024 13:34	13502	MCMI_T1	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/6/2024 13:36	13503	MCMI_T2	10	9	-1	0.6	0.49	-0.11	0.05	0.05	0	0	0	0	0	0
9/6/2024 13:37	55405	SHER_T1	9	6	-3	0.29	0.28	-0.01	-0.17	-0.17	0	0	0	0	0	0
9/6/2024 13:38	64101	REFR_T1	1	1	0	0.2	0.2	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 13:38	58701	ROSE_T2	0	0	0	0	0	0	0.01	-0.01	1	1	0	600	600	0
9/6/2024 13:38	58705	ROSE_T2	5	5	0	1.76	1.38	-0.38	0	0	0	0	0	0	0	0
9/6/2024 13:38	58706	ROSE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/6/2024 13:39	14201	EALL_T1	0	0	0	0	0	0	0.96	0.97	0	0	0	0	0	0
9/6/2024 13:39	55101	WERT_T1	0	0	0	0	0	0	-5.39	-5.54	12	12	0	9900	9900	0
9/6/2024 13:39	26001	WDAM_T1	0	0	0	0	0	0	-0.56	-0.49	0	0	0	0	0	0
9/6/2024 13:40	40201	BEGA_T2	1	2	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
9/6/2024 13:40	55101	WERT_T1	0	0	0	0	0	0	-3.59	-3.69	8	8	0	6600	6600	0
9/6/2024 13:41	67804	WLAN_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
9/6/2024 13:41	59202	THOM_T1	4	2	-2	0.3	0.75	0.45	0	0	0	0	0	0	0	0
9/6/2024 13:41	55101	WERT_T1	0	0	0	0	0	0	-1.8	-1.85	4	4	0	3300	3300	0
9/6/2024 13:41	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	-0.71	-0.69	0	0	0	0	0	0
9/6/2024 13:41	59201	THOM_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/6/2024 13:42	62102	ELAN_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
9/6/2024 13:42	62105	ELAN_T1	3	3	0	0.47	0.43	-0.04	0.6	0.69	0	0	0	0	0	0
9/6/2024 13:42	62101	ELAN_T1	2	1	-1	0.45	0.6	0.15	0	0	0	0	0	0	0	0
9/6/2024 13:42	55101	WERT_T1	0	0	0	0	0	0	-1.8	-1.85	4	4	0	3300	3300	0
9/6/2024 13:42	62104	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/6/2024 13:43	57403	SPAN_T1	1	3	2	0.3	0.4	0.1	0.14	0.19	0	0	0	0	0	0
9/6/2024 13:43	59201	THOM_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/6/2024 13:43	59202	THOM_T1	4	2	-2	0.3	0.75	0.45	0	0	0	0	0	0	0	0
9/6/2024 13:43	57401	SPAN_T1	2	2	0	0.7	0.95	0.25	0	0	0	0	0	0	0	0
9/6/2024 13:44	61801	EELI_T2	6	5	-1	0.37	0.26	-0.11	-0.45	-0.45	1	1	0	600	600	0
9/6/2024 13:44	61803	EELI_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/6/2024 13:44	40201	BEGA_T2	1	2	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
9/6/2024 13:44	44801	EDAN_T2	102	121	19	0.32	0.41	0.09	-1.45	-1.44	0	0	0	0	0	0
9/6/2024 13:44	51603	DUKE_T1	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
9/6/2024 13:45	47101	MARL_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/6/2024 13:45	63602	LETO_T1	1	3	2	0.9	0.53	-0.37	-0.14	-0.18	0	0	0	0	0	0
9/6/2024 13:45	47104	MARL_T1	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
9/6/2024 13:46	52004	LING_T2	3	3	0	3.97	3.77	-0.2	0.44	0.48	0	0	0	0	0	0
9/6/2024 13:46	41502	FAIR_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
9/6/2024 13:46	44801	EDAN_T2	118	118	0	0.39	0.39	0	-1.45	-1.44	0	0	0	0	0	0
9/6/2024 13:47	51202	MTON_T2	1	0	-1	0.3	0	-0.3	-0.96	-0.94	1	1	0	1200	1200	0
9/6/2024 13:48	50504	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 13:48	50502	MECH_T1	2	33	31	1.45	0.21	-1.24	0	0	0	0	0	0	0	0
9/6/2024 13:48	50506	MECH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/6/2024 13:48	44801	EDAN_T2	118	118	0	0.39	0.39	0	-2.91	-2.88	0	0	0	0	0	0
9/6/2024 13:48	50503	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 13:48	64302	LINC_T2	0	0	0	0	0	0	1.4	1.38	0	0	0	0	0	0
9/6/2024 13:48	50501	MECH_T1	4	4	0	0.58	0.93	0.35	-0.1	-0.05	0	0	0	0	0	0
9/6/2024 13:49	52403	GRPA_T2	5	24	19	0.88	0.37	-0.51	-0.02	0	0	0	0	0	0	0
9/6/2024 13:49	52402	GRPA_T2	6	2	-4	0.32	0.1	-0.22	0	0	0	0	0	0	0	0
9/6/2024 13:49	65206	PRIN_T4	9	1	-8	0.41	1.5	1.09	0	0	0	0	0	0	0	0
9/6/2024 13:49	64704	LITI_T1	0	0	0	0	0	0	0.49	0.54	1	1	0	600	600	0
9/6/2024 13:49	65207	PRIN_T4	1	3	2	0.4	0.23	-0.17	0	0	2	2	0	1800	1800	0
9/6/2024 13:50	51202	MTON_T2	1	0	-1	0.3	0	-0.3	-0.96	-0.94	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/6/2024 13:52	51202	MTON_T2	1	0	-1	0.3	0	-0.3	-0.94	-0.93	1	1	0	1200	1200	0
9/6/2024 13:52	58202	NEWV_T1	0	0	0	0	0	0	0.57	0.69	0	0	0	0	0	0
9/6/2024 13:53	42802	SELI_T1	1	1	0	0.2	0.4	0.2	-0.8	-0.81	1	1	0	900	900	0
9/6/2024 13:54	13704	SCHN_T2	1	1	0	0.1	0.2	0.1	0.24	0.25	0	0	0	0	0	0
9/6/2024 13:54	13701	SCHN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 13:55	67503	WEWI_T2	1	2	1	7.9	4.3	-3.6	0.14	0.09	0	0	0	0	0	0
9/6/2024 13:55	67502	WEWI_T2	4	5	1	0.4	0.32	-0.08	0	0	0	0	0	0	0	0
9/6/2024 13:57	15001	BLMO_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/6/2024 13:58	61505	EPET_T1	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
9/6/2024 13:59	51604	DUKE_T2	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
9/6/2024 14:00	45901	AUBU_T1	12	22	10	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
9/6/2024 14:00	45902	AUBU_T1	28	42	14	0.42	0.39	-0.03	-0.59	-0.63	1	1	0	600	600	0
9/6/2024 14:01	16004	DORN_T1	0	1	1	0	0.2	0.2	-0.32	-0.34	1	1	0	1200	1200	0
9/6/2024 14:01	16005	DORN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/6/2024 14:03	16004	DORN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 14:03	53501	EVIL_T2	1	2	1	1.3	0.75	-0.55	-0.01	-0.01	1	1	0	600	600	0
9/6/2024 14:03	48301	ORWI_T1	2	2	0	3.15	3.2	0.05	-0.08	-0.14	1	1	0	900	900	0
9/6/2024 14:03	16005	DORN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/6/2024 14:04	13704	SCHN_T2	1	1	0	0.2	0.4	0.2	0.24	0.25	0	0	0	0	0	0
9/6/2024 14:04	16203	POFA_T2	4	6	2	0.28	0.35	0.07	0	0	0	0	0	0	0	0
9/6/2024 14:04	16201	POFA_T2	0	2	2	0	2.4	2.4	0	0	0	0	0	0	0	0
9/6/2024 14:05	42902	MIDD_T2	0	1	1	0	0.1	0.1	-0.18	-0.28	1	1	0	600	600	0
9/6/2024 14:05	53501	EVIL_T2	1	2	1	1.3	0.75	-0.55	-0.02	-0.02	3	3	0	1800	1800	0
9/6/2024 14:05	48301	ORWI_T1	2	2	0	3.15	3.2	0.05	-0.08	-0.14	1	1	0	900	900	0
9/6/2024 14:05	63401	HONY_T1	0	0	0	0	0	0	-0.03	0.05	1	1	0	600	600	0
9/6/2024 14:06	53501	EVIL_T2	1	2	1	1.3	0.75	-0.55	-0.01	-0.01	2	2	0	1200	1200	0
9/6/2024 14:06	48301	ORWI_T1	2	2	0	3.15	3.2	0.05	-0.14	-0.19	1	1	0	900	900	0
9/6/2024 14:08	16202	POFA_T1	3	4	1	0.37	0.5	0.13	0	0	0	0	0	0	0	0
9/6/2024 14:08	16204	POFA_T1	4	7	3	0.25	0.41	0.16	0	0	0	0	0	0	0	0
9/6/2024 14:10	57004	WHHI_T2	0	0	0	0	0	0	-0.8	-0.76	0	0	0	0	0	0
9/6/2024 14:10	10705	CATA_T2	1	1	0	0.4	0.3	-0.1	0.83	0.86	0	0	0	0	0	0
9/6/2024 14:12	57403	SPAN_T1	0	3	3	0	0.27	0.27	0.19	0.15	0	0	0	0	0	0
9/6/2024 14:12	57401	SPAN_T1	2	2	0	0.95	1.2	0.25	0	0	0	0	0	0	0	0
9/6/2024 14:12	10705	CATA_T2	1	1	0	0.4	0.3	-0.1	0.41	0.43	0	0	0	0	0	0
9/6/2024 14:13	57403	SPAN_T1	0	3	3	0	0.27	0.27	0.19	0.15	0	0	0	0	0	0
9/6/2024 14:13	57401	SPAN_T1	2	2	0	0.95	1.2	0.25	0.26	0.2	1	1	0	600	600	0
9/6/2024 14:15	11507	FREE_T2	0	0	0	0	0	0	-0.29	-0.35	0	0	0	0	0	0
9/6/2024 14:16	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 14:16	11101	EGYP_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/6/2024 14:16	11104	EGYP_T1	0	0	0	0	0	0	0.87	0.92	0	0	0	0	0	0
9/6/2024 14:17	63602	LETO_T1	3	1	-2	0.5	0.5	0	-0.11	-0.14	0	0	0	0	0	0
9/6/2024 14:17	26704	HEML_T2	0	48	48	0	0.13	0.13	-0.57	-0.56	1	1	0	1200	1200	0
9/6/2024 14:18	26803	JAFR_T1	1	1	0	0.2	0.2	0	-0.01	-0.04	1	1	0	900	900	0
9/6/2024 14:20	64902	MILL_T2	0	0	0	0	0	0	-0.24	-0.24	1	1	0	900	900	0
9/6/2024 14:20	63403	HONY_T2	0	0	0	0	0	0	-0.1	-0.04	1	1	0	600	600	0
9/6/2024 14:21	13502	MCMI_T1	1	3	2	1.2	0.5	-0.7	0	0	0	0	0	0	0	0
9/6/2024 14:21	63401	HONY_T1	0	0	0	0	0	0	0.05	0.1	1	1	0	600	600	0
9/6/2024 14:21	13501	MCMI_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
9/6/2024 14:22	51304	WIND_T2	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
9/6/2024 14:22	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 14:23	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 14:23	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 14:23	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 14:23	40303	TAMA_T3	0	1	1	0	0	0	0.69	0.72	0	0	0	0	0	0
9/6/2024 14:23	66501	SMAN_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/6/2024 14:25	42503	ALTA_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
9/6/2024 14:26	10705	CATA_T2	0	1	1	0	0.3	0.3	0.86	0.89	0	0	0	0	0	0
9/6/2024 14:26	43104	SMIL_T2	2	2	0	0.4	0.35	-0.05	-0.63	-0.65	1	1	0	300	300	0
9/6/2024 14:26	43105	SMIL_T2	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
9/6/2024 14:26	43101	SMIL_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
9/6/2024 14:26	43103	SMIL_T2	10	13	3	0.51	0.42	-0.09	0	0	0	0	0	0	0	0
9/6/2024 14:26	43102	SMIL_T2	4	5	1	0.18	0.3	0.12	0	0	0	0	0	0	0	0
9/6/2024 14:29	57401	SPAN_T1	2	2	0	1.2	1	-0.2	0.2	0.23	1	1	0	600	600	0
9/6/2024 14:29	57403	SPAN_T1	3	2	-1	0.23	0.35	0.12	0	0	0	0	0	0	0	0
9/6/2024 14:31	22901	HARW_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/6/2024 14:31	22904	HARW_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
9/6/2024 14:31	22903	HARW_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 14:32	22901	HARW_T1	1	0	-1	0.4	0	-0.4	-0.12	-0.18	1	1	0	1200	1200	0
9/6/2024 14:32	22903	HARW_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 14:33	63602	LETO_T1	1	1	0	0.5	0.5	0	-0.14	-0.07	0	0	0	0	0	0
9/6/2024 14:34	42902	MIDD_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 14:34	13503	MCMI_T2	11	8	-3	0.53	0.59	0.06	0.13	0.17	0	0	0	0	0	0
9/6/2024 14:34	42903	MIDD_T2	0	0	0	0	0	0	0.68	0.87	0	0	0	0	0	0
9/6/2024 14:35	47502	NECO_T1	3	3	0	0.27	0.3	0.03	0.94	0.92	0	0	0	0	0	0
9/6/2024 14:36	13503	MCMI_T2	11	8	-3	0.53	0.59	0.06	0.07	0.09	0	0	0	0	0	0
9/6/2024 14:36	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 14:37	55001	NEWP_T1	0	1	1	0	0.8	0.8	-0.07	-0.03	0	0	0	0	0	0
9/6/2024 14:37	55002	NEWP_T1	7	8	1	0.6	0.99	0.39	-0.12	-0.1	0	0	0	0	0	0
9/6/2024 14:38	56504	ROCK_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
9/6/2024 14:38	55002	NEWP_T1	7	8	1	0.6	0.99	0.39	0	0	0	0	0	0	0	0
9/6/2024 14:38	56501	ROCK_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/6/2024 14:38	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 14:38	55001	NEWP_T1	0	1	1	0	0.8	0.8	-0.07	-0.03	0	0	0	0	0	0
9/6/2024 14:39	59102	WALK_T2	1	3	2	1	0.63	-0.37	0	0	0	0	0	0	0	0
9/6/2024 14:39	56504	ROCK_T2	0	0	0	0	0	0	0.23	0.26	0	0	0	0	0	0
9/6/2024 14:39	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
9/6/2024 14:39	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 14:39	56501	ROCK_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/6/2024 14:39	66501	SMAN_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/6/2024 14:39	59101	WALK_T2	4	3	-1	0.65	0.57	-0.08	0.1	0.18	0	0	0	0	0	0
9/6/2024 14:40	56501	ROCK_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/6/2024 14:40	59102	WALK_T2	1	3	2	1	0.63	-0.37	0	0	0	0	0	0	0	0
9/6/2024 14:40	59101	WALK_T2	4	3	-1	0.65	0.57	-0.08	0.05	0.09	0	0	0	0	0	0
9/6/2024 14:40	56504	ROCK_T2	0	0	0	0	0	0	0.23	0.26	0	0	0	0	0	0
9/6/2024 14:41	59102	WALK_T2	1	3	2	1	0.63	-0.37	0.58	0.6	0	0	0	0	0	0
9/6/2024 14:41	56504	ROCK_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
9/6/2024 14:41	56501	ROCK_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/6/2024 14:41	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 14:41	59101	WALK_T2	4	3	-1	0.65	0.57	-0.08	0.05	0.09	0	0	0	0	0	0
9/6/2024 14:42	59101	WALK_T2	4	3	-1	0.65	0.57	-0.08	0.05	0.09	0	0	0	0	0	0
9/6/2024 14:42	59102	WALK_T2	1	3	2	1	0.63	-0.37	0	0	0	0	0	0	0	0
9/6/2024 14:42	43102	SMIL_T2	5	5	0	0.28	0.32	0.04	0	0	0	0	0	0	0	0
9/6/2024 14:42	43104	SMIL_T2	2	2	0	0.35	0.45	0.1	-0.65	-0.63	1	1	0	300	300	0
9/6/2024 14:42	43101	SMIL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/6/2024 14:42	43105	SMIL_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/6/2024 14:42	43103	SMIL_T2	13	12	-1	0.42	0.44	0.02	0	0	0	0	0	0	0	0
9/6/2024 14:43	42201	SHEN_T2	2	2	0	0.6	0.9	0.3	0.53	0.55	0	0	0	0	0	0
9/6/2024 14:44	11904	ETEX_T2	1	1	0	0.7	1.6	0.9	0.5	0.54	0	0	0	0	0	0
9/6/2024 14:45	46802	HEPB_T1	1	1	0	0.6	0.6	0	-0.11	-0.08	0	0	0	0	0	0
9/6/2024 14:45	47001	HUGH_T2	3	2	-1	2.5	3.4	0.9	0.05	0.07	0	0	0	0	0	0
9/6/2024 14:46	46801	HEPB_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/6/2024 14:46	46803	HEPB_T2	0	1	1	0	0.2	0.2	0.66	0.65	0	0	0	0	0	0
9/6/2024 14:48	22903	HARW_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/6/2024 14:48	22901	HARW_T1	0	1	1	0	0.1	0.1	-0.18	-0.26	1	1	0	1200	1200	0
9/6/2024 14:49	11104	EGYP_T1	0	4	4	0	0	0	1.82	1.8	0	0	0	0	0	0
9/6/2024 14:49	11102	EGYP_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/6/2024 14:50	13503	MCMI_T2	8	6	-2	0.59	0.47	-0.12	0.09	0.08	0	0	0	0	0	0
9/6/2024 14:51	48301	ORWI_T1	2	2	0	3.15	3.4	0.25	-0.19	-0.16	1	1	0	900	900	0
9/6/2024 14:52	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 14:53	55001	NEWP_T1	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
9/6/2024 14:53	55002	NEWP_T1	6	8	2	1.12	0.96	-0.16	-0.1	-0.12	0	0	0	0	0	0
9/6/2024 14:55	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 14:55	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 14:55	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/6/2024 14:57	51201	MTON_T1	0	0	0	0	0	0	0.26	0.3	0	0	0	0	0	0
9/6/2024 14:59	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 15:01	47001	HUGH_T2	2	2	0	3.35	3.35	0	0.07	0.07	0	0	0	0	0	0
9/6/2024 15:02	20601	GRWO_T2	1	3	2	1.2	0.45	-0.75	0	0	0	0	0	0	0	0
9/6/2024 15:02	20603	GRWO_T2	0	0	0	0	0	0	-0.44	-0.42	1	1	0	900	900	0
9/6/2024 15:05	13503	MCMI_T2	6	3	-3	0.47	0.43	-0.04	0.08	0.08	0	0	0	0	0	0
9/6/2024 15:05	20601	GRWO_T2	1	3	2	1.2	0.45	-0.75	0.95	0.95	0	0	0	0	0	0
9/6/2024 15:08	67103	SPRI_T1	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
9/6/2024 15:08	42503	ALTA_T2	0	0	0	0	0	0	-0.56	-0.59	0	0	0	0	0	0
9/6/2024 15:10	14702	TREX_T2	0	0	0	0	0	0	1.13	1.11	0	0	0	0	0	0
9/6/2024 15:13	16102	BING_T2	0	1	1	0	0.1	0.1	0.02	0.06	1	1	0	1200	1200	0
9/6/2024 15:16	12606	MACA_T1	0	0	0	0	0	0	0.02	0.05	1	1	0	900	900	0
9/6/2024 15:18	25402	LAHA_T2	2	1	-1	0.4	0.3	-0.1	-0.19	-0.24	0	0	0	0	0	0
9/6/2024 15:19	65003	NEFF_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/6/2024 15:19	65001	NEFF_T2	0	0	0	0	0	0	-0.34	-0.45	1	1	0	1200	1200	0
9/6/2024 15:19	65004	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 15:22	66901	SHIL_T2	0	0	0	0	0	0	-1.05	-1.03	1	1	0	1200	1200	0
9/6/2024 15:23	10801	CHHI_T1	0	0	0	0	0	0	-0.37	-0.37	1	1	0	900	900	0
9/6/2024 15:24	14801	TREI_T2	1	1	0	0.5	0.4	-0.1	0.87	0.88	0	0	0	0	0	0
9/6/2024 15:26	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 15:26	45501	DERR_T2	3	4	1	0.4	0.33	-0.07	-0.3	-0.33	2	2	0	1800	1800	0
9/6/2024 15:29	25402	LAHA_T2	2	1	-1	0.4	0.3	-0.1	-0.24	-0.26	0	0	0	0	0	0
9/6/2024 15:29	45501	DERR_T2	3	4	1	0.4	0.33	-0.07	-0.61	-0.66	4	4	0	3600	3600	0
9/6/2024 15:34	48302	ORWI_T2	0	2	2	0	0.5	0.5	0.21	-0.39	0	0	0	0	0	0
9/6/2024 15:34	16202	POFA_T1	2	3	1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
9/6/2024 15:34	16204	POFA_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/6/2024 15:37	42802	SELI_T1	0	0	0	0	0	0	-0.69	-0.76	1	1	0	900	900	0
9/6/2024 15:39	42802	SELI_T1	0	0	0	0	0	0	-2.07	-2.27	3	3	0	2700	2700	0
9/6/2024 15:41	64101	REFR_T1	0	2	2	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 15:42	44301	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 15:46	52004	LING_T2	2	2	0	5.1	5.2	0.1	0.71	0.5	0	0	0	0	0	0
9/6/2024 15:48	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-0.63	-0.71	1	1	0	600	600	0
9/6/2024 15:50	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-0.63	-0.71	1	1	0	600	600	0
9/6/2024 15:50	53501	EVIL_T2	2	1	-1	0.6	0.8	0.2	-0.01	-0.01	1	1	0	600	600	0
9/6/2024 15:55	20403	ASHF_T2	2	3	1	0.25	0.25	0	2.73	2.32	0	0	0	0	0	0
9/6/2024 15:55	20401	ASHF_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
9/6/2024 15:58	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
9/6/2024 15:58	13702	SCHN_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
9/6/2024 16:02	12604	MACA_T1	0	0	0	0	0	0	0.55	0.6	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/6/2024 16:02	64203	KINZ_T1	0	0	0	0	0	0	-0.45	-1.27	6	4	-2	4200	3600	-600
9/6/2024 16:02	12602	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 16:02	64202	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 16:02	64204	KINZ_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
9/6/2024 16:02	12601	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 16:05	44201	POIN_T1	0	0	0	0	0	0	-1.4	-1.38	2	2	0	2100	2100	0
9/6/2024 16:08	14303	SUMN_T1	3	3	0	7	7	0	0	0	0	0	0	0	0	0
9/6/2024 16:08	14308	SUMN_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
9/6/2024 16:08	14702	TREX_T2	0	0	0	0	0	0	1.17	1.15	0	0	0	0	0	0
9/6/2024 16:09	60701	BREC_T1	0	0	0	0	0	0	-0.16	-0.16	1	1	0	600	600	0
9/6/2024 16:10	60701	BREC_T1	0	0	0	0	0	0	-0.16	-0.16	1	1	0	600	600	0
9/6/2024 16:10	14702	TREX_T2	0	0	0	0	0	0	1.17	1.15	0	0	0	0	0	0
9/6/2024 16:11	20401	ASHF_T2	2	2	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
9/6/2024 16:11	20403	ASHF_T2	1	5	4	0.5	0.38	-0.12	2.32	1.52	0	0	0	0	0	0
9/6/2024 16:11	60101	COCA_T1	0	0	0	0	0	0	1.6	1.64	0	0	0	0	0	0
9/6/2024 16:12	60701	BREC_T1	0	0	0	0	0	0	-0.16	-0.16	1	1	0	600	600	0
9/6/2024 16:13	60101	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 16:13	24702	FLND_T2	3	2	-1	0.67	0.5	-0.17	0	0	1	1	0	1200	1200	0
9/6/2024 16:13	60701	BREC_T1	0	0	0	0	0	0	-0.16	-0.16	1	1	0	600	600	0
9/6/2024 16:14	60701	BREC_T1	0	0	0	0	0	0	-0.16	-0.16	1	1	0	600	600	0
9/6/2024 16:18	63203	MGTN_T1	0	0	0	0	0	0	-0.51	-0.53	2	2	0	1200	1200	0
9/6/2024 16:19	43202	MVIL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/6/2024 16:19	43201	MVIL_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
9/6/2024 16:24	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 16:25	57401	SPAN_T1	2	2	0	0.7	0.85	0.15	0.26	0	1	1	0	600	600	0
9/6/2024 16:26	10602	BLGL_T2	0	0	0	0	0	0	0.34	0.37	0	0	0	0	0	0
9/6/2024 16:29	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 16:32	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
9/6/2024 16:32	64502	LAVI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 16:32	64501	LAVI_T1	0	0	0	0	0	0	-0.07	-0.16	0	0	0	0	0	0
9/6/2024 16:32	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/6/2024 16:33	46101	MACJ_T2	0	0	0	0	0	0	-0.01	-0.08	1	1	0	1200	1200	0
9/6/2024 16:34	51401	LYKE_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
9/6/2024 16:39	56501	ROCK_T2	2	3	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
9/6/2024 16:39	10801	CHHI_T1	2	2	0	0.85	0.95	0.1	-0.93	-0.91	2	2	0	1500	1500	0
9/6/2024 16:39	56504	ROCK_T2	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
9/6/2024 16:42	53602	DALM_T2	0	0	0	0	0	0	-0.47	-0.48	1	1	0	600	600	0
9/6/2024 16:42	53601	DALM_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/6/2024 16:43	44702	MUNC_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/6/2024 16:43	44703	MUNC_T2	0	0	0	0	0	0	1.12	1.12	0	0	0	0	0	0
9/6/2024 16:47	67502	WEWI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/6/2024 16:47	67503	WEWI_T2	1	1	0	6.6	6.4	-0.2	0.27	0.27	0	0	0	0	0	0
9/6/2024 16:56	20201	JERM_T1	0	0	0	0	0	0	-0.48	-0.49	2	2	0	2400	2400	0
9/6/2024 16:58	46002	BERW_T2	0	1	1	0	0	0	-0.81	-0.81	1	1	0	900	900	0
9/6/2024 16:58	67503	WEWI_T2	1	1	0	6.6	6.4	-0.2	0.27	0.31	0	0	0	0	0	0
9/6/2024 16:58	67502	WEWI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/6/2024 16:58	46004	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 16:58	53601	DALM_T2	1	1	0	0.6	0.5	-0.1	0.11	0.06	0	0	0	0	0	0
9/6/2024 17:01	46002	BERW_T2	0	0	0	0	0	0	-0.81	-0.81	1	1	0	900	900	0
9/6/2024 17:02	46506	LOHA_T1	3	3	0	3.6	3.23	-0.37	0.02	0.02	0	0	0	0	0	0
9/6/2024 17:02	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 17:03	46506	LOHA_T1	3	3	0	3.6	3.23	-0.37	0.02	0.02	0	0	0	0	0	0
9/6/2024 17:03	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 17:05	53802	MBRG_T2	0	1	1	0	7.6	7.6	0.62	0.66	0	0	0	0	0	0
9/6/2024 17:05	46506	LOHA_T1	3	3	0	3.6	3.23	-0.37	0.02	0.02	0	0	0	0	0	0
9/6/2024 17:05	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 17:09	53802	MBRG_T2	0	1	1	0	7.6	7.6	0.66	0.62	0	0	0	0	0	0
9/6/2024 17:21	65502	MOJO_T2	0	0	0	0	0	0	-0.85	-0.9	1	1	0	900	900	0
9/6/2024 17:22	42802	SELI_T1	0	0	0	0	0	0	-0.6	-0.66	1	1	0	900	900	0
9/6/2024 17:26	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 17:26	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 17:29	22903	HARW_T1	3	18	15	0.17	0.4	0.23	0.54	0.39	0	0	0	0	0	0
9/6/2024 17:34	22903	HARW_T1	18	1	-17	0.24	0.1	-0.14	0.54	0.39	0	0	0	0	0	0
9/6/2024 17:45	12006	HATF_T1	0	0	0	0	0	0	-0.63	-0.63	2	2	0	2400	2400	0
9/6/2024 17:45	12002	HATF_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
9/6/2024 17:46	43103	SMIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 17:46	43104	SMIL_T2	0	0	0	0	0	0	-0.59	-0.61	1	1	0	300	300	0
9/6/2024 17:46	43102	SMIL_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/6/2024 17:56	28102	TWLA_T2	8	5	-3	0.26	0.42	0.16	0.25	0.23	0	0	0	0	0	0
9/6/2024 17:56	11904	ETEX_T2	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
9/6/2024 17:57	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/6/2024 17:58	46206	DANV_T2	0	0	0	0	0	0	0.56	0.56	2	2	0	2100	2100	0
9/6/2024 17:58	21206	ECAR_T2	1	1	0	7.5	8.1	0.6	0.45	0.47	0	0	0	0	0	0
9/6/2024 17:58	46203	DANV_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
9/6/2024 17:58	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 18:03	46102	MACJ_T1	0	0	0	0	0	0	0.88	0.88	0	0	0	0	0	0
9/6/2024 18:08	53803	MBRG_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
9/6/2024 18:10	10103	ALLE_T3	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
9/6/2024 18:10	42802	SELI_T1	0	0	0	0	0	0	-0.77	-0.79	1	1	0	900	900	0
9/6/2024 18:10	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 18:10	10205	ALLE_T3	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
9/6/2024 18:10	10109	ALLE_T3	2	3	1	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/6/2024 18:14	40801	EXCH_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 18:14	40802	EXCH_T2	0	0	0	0	0	0	-0.17	-0.23	0	0	0	0	0	0
9/6/2024 18:22	54206	PENN_T2	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
9/6/2024 18:35	64201	KINZ_T1	0	0	0	0	0	0	-0.46	-0.54	3	3	0	1500	1500	0
9/6/2024 18:35	64202	KINZ_T1	0	3	3	0	0.63	0.63	0	0	0	0	0	0	0	0
9/6/2024 18:35	64204	KINZ_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
9/6/2024 18:35	51402	LYKE_T1	0	0	0	0	0	0	-1.31	-1.25	1	1	0	600	600	0
9/6/2024 18:39	53802	MBRG_T2	0	0	0	0	0	0	0.49	0.43	0	0	0	0	0	0
9/6/2024 18:42	43103	SMIL_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 18:42	43102	SMIL_T2	0	6	6	0	0.2	0.2	-0.67	-0.68	1	1	0	600	600	0
9/6/2024 18:43	40505	CRES_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 18:43	40504	CRES_T1	0	0	0	0	0	0	-1.53	-1.57	0	0	0	0	0	0
9/6/2024 18:43	12006	HATF_T1	0	0	0	0	0	0	-0.8	-0.77	2	2	0	2400	2400	0
9/6/2024 18:43	12002	HATF_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/6/2024 18:47	24701	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 18:47	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/6/2024 18:56	43801	SWIL_T1	2	7	5	3.4	1.04	-2.36	-0.67	-0.69	1	1	0	600	600	0
9/6/2024 18:58	57004	WHHI_T2	0	0	0	0	0	0	-0.83	-0.9	0	0	0	0	0	0
9/6/2024 18:58	57006	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 19:00	51402	LYKE_T1	0	0	0	0	0	0	-1.33	-1.35	1	1	0	600	600	0
9/6/2024 20:13	45501	DERR_T2	0	0	0	0	0	0	0.53	0.51	1	1	0	600	600	0
9/6/2024 20:18	58202	NEWV_T1	0	0	0	0	0	0	0.51	0.44	0	0	0	0	0	0
9/6/2024 20:19	50105	HARR_T3	6	6	0	6.37	6.22	-0.15	0	0	0	0	0	0	0	0
9/6/2024 20:19	50201	HARR_T3	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
9/6/2024 20:19	50103	HARR_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 20:19	50202	HARR_T3	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/6/2024 20:19	50107	HARR_T3	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
9/6/2024 20:31	40504	CRES_T1	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
9/6/2024 20:34	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 20:34	40502	CRES_T2	7	16	9	0.24	0.26	0.02	-0.28	-0.28	0	0	0	0	0	0
9/6/2024 20:35	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 20:35	40502	CRES_T2	7	16	9	0.24	0.26	0.02	-0.28	-0.28	0	0	0	0	0	0
9/6/2024 20:36	11901	ETEX_T2	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
9/6/2024 20:51	67203	TEHI_T1	1	0	-1	1	0	-1	1.88	1.84	1	1	0	900	900	0
9/6/2024 20:56	13905	SEID_T1	0	0	0	0	0	0	-0.76	-0.85	1	1	0	1200	1200	0
9/6/2024 20:56	43402	BENT_T1	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
9/6/2024 20:56	58402	MORO_T1	0	0	0	0	0	0	0.59	0.42	1	1	0	900	900	0
9/6/2024 20:56	67201	TEHI_T1	0	0	0	0	0	0	-0.06	0.49	1	0	-1	900	0	-900
9/6/2024 20:56	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 20:56	67203	TEHI_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
9/6/2024 21:04	53901	HALI_T2	1	2	1	1	0.7	-0.3	0	0	0	0	0	0	0	0
9/6/2024 21:04	15603	NSTR_T2	0	0	0	0	0	0	-0.29	-0.22	0	0	0	0	0	0
9/6/2024 21:04	15601	NSTR_T2	3	3	0	0.63	0.93	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:04	53902	HALI_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:04	53903	HALI_T2	2	2	0	1.4	1.8	0.4	-0.07	-0.08	0	0	0	0	0	0
9/6/2024 21:05	53903	HALI_T2	2	2	0	1.4	1.8	0.4	-0.07	-0.08	0	0	0	0	0	0
9/6/2024 21:05	53902	HALI_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:05	53901	HALI_T2	1	2	1	1	0.7	-0.3	0	0	0	0	0	0	0	0
9/6/2024 21:07	56501	ROCK_T2	2	2	0	0.35	0.75	0.4	0	0	0	0	0	0	0	0
9/6/2024 21:07	56504	ROCK_T2	0	0	0	0	0	0	-0.04	-0.08	0	0	0	0	0	0
9/6/2024 21:10	25603	ARRO_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
9/6/2024 21:12	57505	LAWN_T3	1	1	0	0.1	0.1	0	0.77	0.74	0	0	0	0	0	0
9/6/2024 21:13	14602	SWHI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:13	14603	SWHI_T1	0	0	0	0	0	0	-0.75	-0.71	1	1	0	600	600	0
9/6/2024 21:15	15604	NSTR_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
9/6/2024 21:16	51202	MTON_T2	0	0	0	0	0	0	-0.96	-0.98	1	1	0	1200	1200	0
9/6/2024 21:16	47401	PENS_T1	0	0	0	0	0	0	0.52	0.59	0	0	0	0	0	0
9/6/2024 21:17	26704	HEML_T2	0	0	0	0	0	0	-0.7	-0.67	1	1	0	1200	1200	0
9/6/2024 21:17	15702	TANN_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
9/6/2024 21:17	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:17	15703	TANN_T2	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 21:18	51002	NHAR_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:18	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:18	51004	NHAR_T1	1	1	0	5.7	5.5	-0.2	0.08	0.13	0	0	0	0	0	0
9/6/2024 21:19	62604	ENGL_T1	0	0	0	0	0	0	-0.72	-0.79	1	1	0	600	600	0
9/6/2024 21:19	62601	ENGL_T1	1	0	-1	6.5	0	-6.5	0	0	0	0	0	0	0	0
9/6/2024 21:19	12606	MACA_T1	0	0	0	0	0	0	-0.02	-0.05	1	1	0	900	900	0
9/6/2024 21:19	17002	RIRO_T2	25	3	-22	0.13	0.1	-0.03	0.39	0.38	0	0	0	0	0	0
9/6/2024 21:20	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:20	10602	BLGL_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
9/6/2024 21:20	15704	TANN_T1	0	0	0	0	0	0	-0.17	-0.34	0	0	0	0	0	0
9/6/2024 21:20	63402	HONY_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:20	47001	HUGH_T2	5	11	6	5.64	2.75	-2.89	-0.64	-0.74	0	0	0	0	0	0
9/6/2024 21:20	15701	TANN_T1	1	1	0	4.9	4.5	-0.4	0	0	0	0	0	0	0	0
9/6/2024 21:20	63403	HONY_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
9/6/2024 21:20	45902	AUBU_T1	0	0	0	0	0	0	-0.75	-0.82	0	0	0	0	0	0
9/6/2024 21:20	27502	WEIS_T2	0	0	0	0	0	0	-0.48	-0.59	0	0	0	0	0	0
9/6/2024 21:20	15203	SFAR_T2	0	0	0	0	0	0	-0.94	-0.96	0	0	0	0	0	0
9/6/2024 21:20	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
9/6/2024 21:20	14502	SCHO_T1	1	1	0	1.8	2.3	0.5	0.66	0.61	0	0	0	0	0	0
9/6/2024 21:21	14801	TREI_T2	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/6/2024 21:21	52006	LING_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
9/6/2024 21:21	53602	DALM_T2	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
9/6/2024 21:21	50505	MECH_T1	0	0	0	0	0	0	-0.78	-0.75	0	0	0	0	0	0
9/6/2024 21:21	51401	LYKE_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
9/6/2024 21:21	25402	LAHA_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
9/6/2024 21:21	53601	DALM_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:21	50501	MECH_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
9/6/2024 21:21	50502	MECH_T1	1	2	1	2.5	1.4	-1.1	0	0	0	0	0	0	0	0
9/6/2024 21:21	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/6/2024 21:21	11604	CEAL_T1	4	4	0	0.38	0.1	-0.28	0	0	0	0	0	0	0	0
9/6/2024 21:21	13503	MCMI_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
9/6/2024 21:21	52002	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:21	52004	LING_T2	2	2	0	6.25	6.35	0.1	0.26	0.21	0	0	0	0	0	0
9/6/2024 21:21	52502	PROG_T2	1	0	-1	0.1	0	-0.1	0.5	0.49	0	0	0	0	0	0
9/6/2024 21:21	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:21	45901	AUBU_T1	0	0	0	0	0	0	0.94	0.94	0	0	0	0	0	0
9/6/2024 21:22	50201	HARR_T3	1	1	0	1.3	1.3	0	-0.54	-0.57	1	1	0	1200	1200	0
9/6/2024 21:22	52006	LING_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
9/6/2024 21:22	47401	PENS_T1	0	0	0	0	0	0	0.59	0.54	0	0	0	0	0	0
9/6/2024 21:22	51305	WIND_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
9/6/2024 21:22	67603	WARW_T1	0	0	0	0	0	0	0.03	0.06	0	0	0	0	0	0
9/6/2024 21:22	56504	ROCK_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
9/6/2024 21:22	14308	SUMN_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
9/6/2024 21:22	56501	ROCK_T2	2	2	0	0.65	0.75	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:22	14401	SSLA_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
9/6/2024 21:22	14303	SUMN_T1	3	3	0	6.3	6.73	0.43	0	0	0	0	0	0	0	0
9/6/2024 21:22	60101	COCA_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
9/6/2024 21:22	53501	EVIL_T2	2	2	0	0.85	0.75	-0.1	-0.01	-0.01	1	1	0	600	600	0
9/6/2024 21:22	51303	WIND_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:22	50107	HARR_T3	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:22	50103	HARR_T3	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
9/6/2024 21:22	52002	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:22	24501	GOUL_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
9/6/2024 21:22	40101	HUNT_T2	0	0	0	0	0	0	-0.62	-0.66	0	0	0	0	0	0
9/6/2024 21:22	67605	WARW_T1	19	23	4	0.48	0.53	0.05	0	0	0	0	0	0	0	0
9/6/2024 21:22	50202	HARR_T3	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:22	52004	LING_T2	2	2	0	6.25	6.35	0.1	0.21	0.22	0	0	0	0	0	0
9/6/2024 21:22	50105	HARR_T3	6	6	0	6.02	5.98	-0.04	0	0	0	0	0	0	0	0
9/6/2024 21:22	50102	HARR_T3	3	5	2	0.1	0.16	0.06	0	0	0	0	0	0	0	0
9/6/2024 21:22	26803	JAFR_T1	0	0	0	0	0	0	-0.09	-0.11	1	1	0	900	900	0
9/6/2024 21:23	20603	GRWO_T2	51	49	-2	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
9/6/2024 21:23	11104	EGYP_T1	0	0	0	0	0	0	0.67	0.63	0	0	0	0	0	0
9/6/2024 21:23	48302	ORWI_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
9/6/2024 21:23	46802	HEPB_T1	2	4	2	0.5	0.4	-0.1	-0.14	-0.16	0	0	0	0	0	0
9/6/2024 21:23	46002	BERW_T2	0	0	0	0	0	0	-1.11	-1.12	1	1	0	900	900	0
9/6/2024 21:23	64902	MILL_T2	0	0	0	0	0	0	-0.49	-0.48	1	1	0	900	900	0
9/6/2024 21:23	13501	MCMI_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
9/6/2024 21:23	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:23	20601	GRWO_T2	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
9/6/2024 21:23	55101	WERT_T1	0	0	0	0	0	0	-0.67	-0.6	1	1	0	900	900	0
9/6/2024 21:23	16402	MOPO_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
9/6/2024 21:23	25503	MADI_T1	91	85	-6	0.35	0.31	-0.04	-0.97	-0.97	0	0	0	0	0	0
9/6/2024 21:23	67605	WARW_T1	19	23	4	0.48	0.53	0.05	-1.06	-1.09	0	0	0	0	0	0
9/6/2024 21:23	14702	TREX_T2	0	0	0	0	0	0	0.94	0.98	0	0	0	0	0	0
9/6/2024 21:23	43402	BENT_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
9/6/2024 21:23	63602	LETO_T1	0	0	0	0	0	0	-0.2	-0.15	0	0	0	0	0	0
9/6/2024 21:23	25501	MADI_T1	3	3	0	0.7	0.87	0.17	0	0	0	0	0	0	0	0
9/6/2024 21:23	16101	BING_T2	0	0	0	0	0	0	0.51	0.48	0	0	0	0	0	0
9/6/2024 21:24	54203	PENN_T1	19	20	1	1.31	1.36	0.05	0	0	0	0	0	0	0	0
9/6/2024 21:24	28703	HAML_T2	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
9/6/2024 21:24	55001	NEWP_T1	0	1	1	0	2.7	2.7	-0.21	-0.23	0	0	0	0	0	0
9/6/2024 21:24	48301	ORWI_T1	2	2	0	5.45	5.6	0.15	-0.46	-0.56	1	1	0	900	900	0
9/6/2024 21:24	52502	PROG_T2	1	0	-1	0.1	0	-0.1	0.97	0.97	0	0	0	0	0	0
9/6/2024 21:24	42201	SHEN_T2	3	3	0	0.1	0.13	0.03	0.43	0.42	0	0	0	0	0	0
9/6/2024 21:24	54205	PENN_T1	0	56	56	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:24	22903	HARW_T1	6	0	-6	0.32	0	-0.32	0.09	0.07	0	0	0	0	0	0
9/6/2024 21:24	56501	ROCK_T2	2	2	0	0.65	0.75	0.1	0.27	0.26	0	0	0	0	0	0
9/6/2024 21:24	57401	SPAN_T1	2	2	0	1.75	1.3	-0.45	0.57	0.55	0	0	0	0	0	0
9/6/2024 21:24	28702	HAML_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
9/6/2024 21:24	40201	BEGA_T2	5	1	-4	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
9/6/2024 21:24	28704	HAML_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:24	54201	PENN_T1	75	135	60	0.4	0.37	-0.03	-0.76	-0.74	0	0	0	0	0	0
9/6/2024 21:24	55002	NEWP_T1	4	6	2	0.48	0.47	-0.01	-0.22	-0.24	0	0	0	0	0	0
9/6/2024 21:24	63501	HEID_TBK1-2	48	49	1	0.71	0.49	-0.22	0.48	0.56	0	0	0	0	0	0
9/6/2024 21:24	16402	MOPO_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
9/6/2024 21:25	22904	HARW_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
9/6/2024 21:25	24204	PROV_T3	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
9/6/2024 21:25	50105	HARR_T3	6	6	0	6.02	5.98	-0.04	0	0	0	0	0	0	0	0
9/6/2024 21:25	50107	HARR_T3	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:25	58701	ROSE_T2	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
9/6/2024 21:25	48302	ORWI_T2	2	2	0	0.95	1.1	0.15	0.01	0.01	0	0	0	0	0	0
9/6/2024 21:25	61501	EPET_T2	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0	0
9/6/2024 21:25	27502	WEIS_T2	0	0	0	0	0	0	-1.18	-1.26	0	0	0	0	0	0
9/6/2024 21:25	45902	AUBU_T1	0	0	0	0	0	0	-0.41	-0.47	0	0	0	0	0	0
9/6/2024 21:25	59201	THOM_T1	17	21	4	0.21	0.48	0.27	0	0	0	0	0	0	0	0
9/6/2024 21:25	50202	HARR_T3	1	1	0	0.5	0.4	-0.1	-0.27	-0.27	0	0	0	0	0	0
9/6/2024 21:25	62601	ENGL_T1	1	0	-1	6.5	0	-6.5	0	0	0	0	0	0	0	0
9/6/2024 21:25	14401	SSLA_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
9/6/2024 21:25	42601	TUSC_T1	1	0	-1	0.3	0	-0.3	-0.44	-0.42	2	2	0	1800	1800	0
9/6/2024 21:25	61506	EPET_T2	0	0	0	0	0	0	-0.66	0.32	1	0	-1	900	0	-900
9/6/2024 21:25	24201	PROV_T3	1	1	0	6.9	6.7	-0.2	-1.25	-1.25	1	1	0	1200	1200	0
9/6/2024 21:25	65207	PRIN_T4	7	12	5	0.23	0.24	0.01	0	0	2	2	0	1800	1800	0
9/6/2024 21:25	58705	ROSE_T2	5	5	0	2.66	2.68	0.02	0	0	0	0	0	0	0	0
9/6/2024 21:25	20201	JERM_T1	0	0	0	0	0	0	1.81	1.74	0	0	0	0	0	0
9/6/2024 21:25	47203	FAXO_T2	0	0	0	0	0	0	-1.42	-1.4	1	1	0	1200	1200	0
9/6/2024 21:25	53903	HALI_T2	2	2	0	1.8	1.8	0	0	0	0	0	0	0	0	0
9/6/2024 21:25	67503	WEWI_T2	1	1	0	8.6	8.6	0	0	0	0	0	0	0	0	0
9/6/2024 21:25	46301	ROHR_T1	2	9	7	3.95	1	-2.95	0	0	0	0	0	0	0	0
9/6/2024 21:25	13701	SCHN_T2	0	0	0	0	0	0	0.16	0.14	1	1	0	600	600	0
9/6/2024 21:25	10205	ALLE_T3	2	2	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
9/6/2024 21:25	13503	MCMI_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
9/6/2024 21:25	50201	HARR_T3	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
9/6/2024 21:25	67502	WEWI_T2	97	3	-94	0.18	0.1	-0.08	-0.31	-0.27	0	0	0	0	0	0
9/6/2024 21:25	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:25	66902	SHIL_T2	2	70	68	0.1	0.12	0.02	-1.65	-1.63	0	0	0	0	0	0
9/6/2024 21:25	45901	AUBU_T1	0	0	0	0	0	0	0.94	0.94	0	0	0	0	0	0
9/6/2024 21:25	50103	HARR_T3	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
9/6/2024 21:25	40302	TAMA_T3	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/6/2024 21:25	44802	EDAN_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
9/6/2024 21:25	46302	ROHR_T1	4	4	0	2.25	2	-0.25	0.2	0.2	0	0	0	0	0	0
9/6/2024 21:25	40702	FFLD_T1	22	61	39	0.15	0.16	0.01	0	0	0	0	0	0	0	0
9/6/2024 21:25	40703	FFLD_T1	3	3	0	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
9/6/2024 21:25	59202	THOM_T1	36	295	259	0.19	0.29	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:25	53902	HALI_T2	1	1	0	4.6	5.6	1	0	0	0	0	0	0	0	0
9/6/2024 21:25	40701	FFLD_T1	40	46	6	0.41	0.36	-0.05	0	0	0	0	0	0	0	0
9/6/2024 21:25	62607	ENGL_T1	0	0	0	0	0	0	-0.83	-0.86	1	1	0	300	300	0
9/6/2024 21:25	40303	TAMA_T3	0	0	0	0	0	0	1.04	0.96	0	0	0	0	0	0
9/6/2024 21:25	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:25	22905	HARW_T1	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
9/6/2024 21:25	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:25	65206	PRIN_T4	1	1	0	7.3	0	-7.3	0	0	0	0	0	0	0	0
9/6/2024 21:25	44801	EDAN_T2	130	151	21	0.33	0.42	0.09	0	0	0	0	0	0	0	0
9/6/2024 21:25	57401	SPAN_T1	2	2	0	1.75	1.3	-0.45	0.57	0.55	0	0	0	0	0	0
9/6/2024 21:25	22903	HARW_T1	6	0	-6	0.32	0	-0.32	0	0	0	0	0	0	0	0
9/6/2024 21:25	47001	HUGH_T2	5	11	6	5.64	2.75	-2.89	-0.74	-0.79	0	0	0	0	0	0
9/6/2024 21:25	66901	SHIL_T2	93	184	91	0.17	0.2	0.03	-1.4	-1.45	1	1	0	1200	1200	0
9/6/2024 21:25	16102	BING_T2	0	0	0	0	0	0	1.08	1.07	0	0	0	0	0	0
9/6/2024 21:25	50102	HARR_T3	3	5	2	0.1	0.16	0.06	0	0	0	0	0	0	0	0
9/6/2024 21:25	67805	WLAN_T1	54	394	340	0.16	0.21	0.05	-1.36	-1.36	0	0	0	0	0	0
9/6/2024 21:25	53901	HALI_T2	1	2	1	1.2	0.7	-0.5	-1.14	-1.11	0	0	0	0	0	0
9/6/2024 21:25	64302	LINC_T2	0	0	0	0	0	0	1.17	1.17	0	0	0	0	0	0
9/6/2024 21:26	44703	MUNC_T2	2	2	0	1.45	1	-0.45	0.83	0.8	0	0	0	0	0	0
9/6/2024 21:26	42802	SELI_T1	1	1	0	0.1	0.6	0.5	-1.19	-1.25	1	1	0	900	900	0
9/6/2024 21:26	62103	ELAN_T1	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 21:26	67804	WLAN_T1	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
9/6/2024 21:26	54203	PENN_T1	19	20	1	1.31	1.36	0.05	0	0	0	0	0	0	0	0
9/6/2024 21:26	48301	ORWI_T1	2	2	0	5.45	5.6	0.15	-0.46	-0.56	1	1	0	900	900	0
9/6/2024 21:26	53901	HALI_T2	1	2	1	1.2	0.7	-0.5	-1.14	-1.11	0	0	0	0	0	0
9/6/2024 21:26	59302	MCAL_T1	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
9/6/2024 21:26	55001	NEWP_T1	0	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0
9/6/2024 21:26	66505	SMAN_T2	3	3	0	0.2	0.77	0.57	0	0	0	0	0	0	0	0
9/6/2024 21:26	47101	MARL_T1	0	0	0	0	0	0	-0.21	-0.25	0	0	0	0	0	0
9/6/2024 21:26	60101	COCA_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
9/6/2024 21:26	59301	MCAL_T1	2	2	0	0.95	1.3	0.35	-1.08	-1.08	0	0	0	0	0	0
9/6/2024 21:26	45902	AUBU_T1	0	0	0	0	0	0	-0.82	-0.93	0	0	0	0	0	0
9/6/2024 21:26	65003	NEFF_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:26	43202	WVIL_T2	48	60	12	0.3	0.51	0.21	-0.66	-0.68	0	0	0	0	0	0
9/6/2024 21:26	42903	MIDD_T2	2	2	0	1.15	1.35	0.2	-0.11	-0.3	0	0	0	0	0	0
9/6/2024 21:26	64503	LAVI_T1	0	0	0	0	0	0	-0.29	-0.35	1	1	0	1200	1200	0
9/6/2024 21:26	53501	EVIL_T2	2	2	0	0.85	0.75	-0.1	-0.01	-0.01	1	1	0	600	600	0
9/6/2024 21:26	62106	ELAN_T1	2	3	1	0.1	0.2	0.1	0	-0.01	0	0	0	0	0	0
9/6/2024 21:26	46004	BERW_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
9/6/2024 21:26	14603	SWHI_T1	0	0	0	0	0	0	-0.71	-0.78	1	1	0	600	600	0
9/6/2024 21:26	62101	ELAN_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:26	63401	HONY_T1	0	0	0	0	0	0	-0.01	-0.1	2	2	0	1200	1200	0
9/6/2024 21:26	43302	WATS_T2	4	4	0	0.68	0.63	-0.05	0	0	0	0	0	0	0	0
9/6/2024 21:26	11507	FREE_T2	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
9/6/2024 21:26	57203	ROSS_T1	0	0	0	0	0	0	0.59	0.54	0	0	0	0	0	0
9/6/2024 21:26	20402	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/6/2024 21:26	62105	ELAN_T1	2	87	85	0.1	0.12	0.02	0	0	0	0	0	0	0	0
9/6/2024 21:26	54205	PENN_T1	0	56	56	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:26	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/6/2024 21:26	46301	ROHR_T1	2	9	7	3.95	1	-2.95	0.21	0.2	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/6/2024 21:26	10705	CATA_T2	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
9/6/2024 21:26	43301	WATS_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
9/6/2024 21:26	12801	MICK_T1	0	0	0	0	0	0	-0.95	-0.94	1	1	0	600	600	0
9/6/2024 21:26	20401	ASHF_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:26	65001	NEFF_T2	1	10	9	0.1	0.1	0	-1.89	-1.76	2	2	0	2400	2400	0
9/6/2024 21:26	57006	WHHI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:26	46302	ROHR_T1	4	4	0	2.25	2	-0.25	0	0	0	0	0	0	0	0
9/6/2024 21:26	67702	WERN_T2	0	0	0	0	0	0	0.65	0.59	0	0	0	0	0	0
9/6/2024 21:26	20403	ASHF_T2	0	0	0	0	0	0	0.3	0.22	0	0	0	0	0	0
9/6/2024 21:26	11904	ETEX_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
9/6/2024 21:26	53902	HALI_T2	1	1	0	4.6	5.6	1	0	0	0	0	0	0	0	0
9/6/2024 21:26	44702	MUNC_T2	155	13	-142	0.43	0.14	-0.29	0	0	0	0	0	0	0	0
9/6/2024 21:26	40602	PIGR_T1	0	0	0	0	0	0	0.12	0.18	0	0	0	0	0	0
9/6/2024 21:26	40601	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:26	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:26	44802	EDAN_T2	0	0	0	0	0	0	-1.39	-1.33	0	0	0	0	0	0
9/6/2024 21:26	60701	BREC_T1	0	0	0	0	0	0	-0.37	-0.4	1	1	0	600	600	0
9/6/2024 21:26	44801	EDAN_T2	130	151	21	0.33	0.42	0.09	0	0	0	0	0	0	0	0
9/6/2024 21:26	54505	ENOL_T2	1	1	0	1.2	1.3	0.1	-0.66	-0.66	1	1	0	600	600	0
9/6/2024 21:26	53803	MBRG_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
9/6/2024 21:26	54201	PENN_T1	75	135	60	0.4	0.37	-0.03	-0.76	-0.74	0	0	0	0	0	0
9/6/2024 21:26	53903	HALI_T2	2	2	0	1.8	1.8	0	0	0	0	0	0	0	0	0
9/6/2024 21:26	55002	NEWP_T1	4	6	2	0.48	0.47	-0.01	-0.22	-0.24	0	0	0	0	0	0
9/6/2024 21:26	10702	CATA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/6/2024 21:26	57004	WHHI_T2	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
9/6/2024 21:26	44701	MUNC_T2	183	60	-123	0.21	0.16	-0.05	0	0	0	0	0	0	0	0
9/6/2024 21:26	67805	WLAN_T1	54	394	340	0.16	0.21	0.05	0	0	0	0	0	0	0	0
9/6/2024 21:26	57201	ROSS_T1	4	19	15	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/6/2024 21:26	45502	DERR_T2	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
9/6/2024 21:26	66504	SMAN_T2	0	0	0	0	0	0	-0.62	-0.68	0	0	0	0	0	0
9/6/2024 21:27	59202	THOM_T1	36	295	259	0.19	0.29	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:27	53601	DALM_T2	1	1	0	0.9	1.2	0.3	-0.06	-0.08	0	0	0	0	0	0
9/6/2024 21:27	50107	HARR_T3	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:27	54202	PENN_T2	0	1	1	0	0.1	0.1	-0.37	-0.41	0	0	0	0	0	0
9/6/2024 21:27	14404	SSLA_T1	0	0	0	0	0	0	0.09	0.03	0	0	0	0	0	0
9/6/2024 21:27	67502	WEWI_T2	97	3	-94	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
9/6/2024 21:27	59201	THOM_T1	17	21	4	0.21	0.48	0.27	0	0	0	0	0	0	0	0
9/6/2024 21:27	54204	PENN_T2	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:27	67605	WARW_T1	19	23	4	0.48	0.53	0.05	0	0	0	0	0	0	0	0
9/6/2024 21:27	50102	HARR_T3	3	5	2	0.1	0.16	0.06	0	0	0	0	0	0	0	0
9/6/2024 21:27	16103	BING_T2	0	0	0	0	0	0	-1.23	-1.26	1	1	0	900	900	0
9/6/2024 21:27	67401	WAKE_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/6/2024 21:27	65207	PRIN_T4	7	12	5	0.23	0.24	0.01	0	0	0	0	0	0	0	0
9/6/2024 21:27	50202	HARR_T3	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:27	57401	SPAN_T1	2	2	0	1.75	1.3	-0.45	1.13	1.11	0	0	0	0	0	0
9/6/2024 21:27	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:27	23401	HONE_T2	0	0	0	0	0	0	0.19	-0.08	0	0	0	0	0	0
9/6/2024 21:27	26401	INOR_T1	1	1	0	8.9	9.2	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:27	14801	TREI_T2	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
9/6/2024 21:27	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:27	65206	PRIN_T4	1	1	0	7.3	0	-7.3	0	0	0	0	0	0	0	0
9/6/2024 21:27	56504	ROCK_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
9/6/2024 21:27	62103	ELAN_T1	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 21:27	41901	REED_T1	9	6	-3	0.39	0.27	-0.12	0	0	0	0	0	0	0	0
9/6/2024 21:27	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:27	62105	ELAN_T1	2	87	85	0.1	0.12	0.02	0.64	0.66	0	0	0	0	0	0
9/6/2024 21:27	26402	INOR_T1	0	0	0	0	0	0	-1.95	-1.96	1	1	0	600	600	0
9/6/2024 21:27	53802	MBRG_T2	0	0	0	0	0	0	0.5	0.46	0	0	0	0	0	0
9/6/2024 21:27	42601	TUSC_T1	1	0	-1	0.3	0	-0.3	-0.44	-0.42	2	2	0	1800	1800	0
9/6/2024 21:27	62101	ELAN_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:27	50103	HARR_T3	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
9/6/2024 21:27	57201	ROSS_T1	4	19	15	0.15	0.2	0.05	-0.29	-0.29	0	0	0	0	0	0
9/6/2024 21:27	41902	REED_T1	0	0	0	0	0	0	1.02	0.9	0	0	0	0	0	0
9/6/2024 21:27	11202	ELHE_T2	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
9/6/2024 21:27	11104	EGYP_T1	0	0	0	0	0	0	0.67	0.63	0	0	0	0	0	0
9/6/2024 21:27	54206	PENN_T2	17	41	24	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/6/2024 21:27	62106	ELAN_T1	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:27	50105	HARR_T3	6	6	0	6.02	5.98	-0.04	0	0	0	0	0	0	0	0
9/6/2024 21:27	60701	BREC_T1	0	0	0	0	0	0	-0.74	-0.8	2	2	0	1200	1200	0
9/6/2024 21:27	56501	ROCK_T2	2	2	0	0.65	0.75	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:27	67002	STHI_T2	0	4	4	0	0.1	0.1	0.91	0.93	0	0	0	0	0	0
9/6/2024 21:27	66505	SMAN_T2	3	3	0	0.2	0.77	0.57	0	0	0	0	0	0	0	0
9/6/2024 21:27	20603	GRWO_T2	51	49	-2	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
9/6/2024 21:27	67402	WAKE_T2	0	0	0	0	0	0	-0.29	-0.26	1	1	0	600	600	0
9/6/2024 21:27	22903	HARW_T1	6	0	-6	0.32	0	-0.32	0	0	0	0	0	0	0	0
9/6/2024 21:27	22901	HARW_T1	0	0	0	0	0	0	-0.44	-0.5	1	1	0	1200	1200	0
9/6/2024 21:27	67503	WEWI_T2	1	1	0	8.6	8.6	0	0.07	-0.04	0	0	0	0	0	0
9/6/2024 21:27	67001	STHI_T2	60	220	160	0.11	0.16	0.05	0	0	0	0	0	0	0	0
9/6/2024 21:27	50201	HARR_T3	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
9/6/2024 21:27	20601	GRWO_T2	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
9/6/2024 21:27	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:28	21206	ECAR_T2	1	1	0	7.6	7.5	-0.1	0.39	0.32	0	0	0	0	0	0
9/6/2024 21:28	10705	CATA_T2	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
9/6/2024 21:28	20401	ASHF_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:28	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:28	55001	NEWP_T1	0	1	1	0	2.7	2.7	-0.21	-0.23	0	0	0	0	0	0
9/6/2024 21:28	67103	SPRI_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
9/6/2024 21:28	10702	CATA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/6/2024 21:28	26001	WDAM_T1	0	0	0	0	0	0	-0.52	-0.73	0	0	0	0	0	0
9/6/2024 21:28	44703	MUNC_T2	2	2	0	1.45	1	-0.45	0	0	0	0	0	0	0	0
9/6/2024 21:28	67605	WARW_T1	19	23	4	0.48	0.53	0.05	-1.06	-1.09	0	0	0	0	0	0
9/6/2024 21:28	60502	NMAN_T2	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
9/6/2024 21:28	40801	EXCH_T2	4	0	-4	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/6/2024 21:28	63602	LETO_T1	0	0	0	0	0	0	-0.2	-0.15	0	0	0	0	0	0
9/6/2024 21:28	46001	BERW_T1	0	0	0	0	0	0	1.46	1.42	0	0	0	0	0	0
9/6/2024 21:28	14702	HAEX_T2	0	0	0	0	0	0	0.94	0.98	0	0	0	0	0	0
9/6/2024 21:28	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/6/2024 21:28	67702	WERN_T2	0	0	0	0	0	0	0.65	0.59	0	0	0	0	0	0
9/6/2024 21:28	26002	WDAM_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
9/6/2024 21:28	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 21:28	15703	TANN_T2	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 21:28	20403	ASHF_T2	0	0	0	0	0	0	0.3	0.22	0	0	0	0	0	0
9/6/2024 21:28	63203	MGTN_T1	0	0	0	0	0	0	-0.83	-0.85	2	2	0	1200	1200	0
9/6/2024 21:28	44702	MUNC_T2	155	13	-142	0.43	0.14	-0.29	0	0	0	0	0	0	0	0
9/6/2024 21:28	52004	LING_T2	2	2	0	6.25	6.35	0.1	0.21	0.22	0	0	0	0	0	0
9/6/2024 21:28	15001	BLMO_T1	4	3	-1	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
9/6/2024 21:28	56501	ROCK_T2	2	2	0	0.65	0.75	0.1	0.27	0.26	0	0	0	0	0	0
9/6/2024 21:28	63501	HEID_TBK1-2	48	49	1	0.71	0.49	-0.22	0.48	0.56	0	0	0	0	0	0
9/6/2024 21:28	12604	MACA_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
9/6/2024 21:28	52006	LING_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
9/6/2024 21:28	57402	SPAN_T2	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
9/6/2024 21:28	14404	SSLA_T1	0	0	0	0	0	0	0.09	0.03	0	0	0	0	0	0
9/6/2024 21:28	52002	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:28	57403	SPAN_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
9/6/2024 21:28	45602	WOOL_T1	0	6	6	0	0.1	0.1	0.72	0.75	0	0	0	0	0	0
9/6/2024 21:28	44201	POIN_T1	105	56	-49	0.27	0.17	-0.1	-1.62	-1.61	2	2	0	2100	2100	0
9/6/2024 21:28	55002	NEWP_T1	4	6	2	0.48	0.47	-0.01	0	0	0	0	0	0	0	0
9/6/2024 21:28	40802	EXCH_T2	50	0	-50	0.13	0	-0.13	-0.24	-0.27	0	0	0	0	0	0
9/6/2024 21:28	24602	VARD_T2	2	1	-1	0.95	1.6	0.65	0	0	0	0	0	0	0	0
9/6/2024 21:28	40101	HUNT_T2	0	0	0	0	0	0	-0.62	-0.66	0	0	0	0	0	0
9/6/2024 21:28	11904	ETEX_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
9/6/2024 21:28	60101	COCA_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
9/6/2024 21:28	61301	EARL_T1	0	0	0	0	0	0	-1.11	-0.45	2	1	-1	1800	900	-900
9/6/2024 21:28	57401	SPAN_T1	2	2	0	1.75	1.3	-0.45	0	0	0	0	0	0	0	0
9/6/2024 21:28	15604	NSTR_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
9/6/2024 21:28	56504	ROCK_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
9/6/2024 21:28	45702	LIND_T2	1	1	0	0.7	0.5	-0.2	-0.48	-0.45	0	0	0	0	0	0
9/6/2024 21:28	15702	TANN_T2	0	0	0	0	0	0	-0.62	-0.72	0	0	0	0	0	0
9/6/2024 21:28	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:28	51402	LYKE_T1	0	0	0	0	0	0	-0.68	-0.76	0	0	0	0	0	0
9/6/2024 21:28	42302	MOWR_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
9/6/2024 21:28	44701	MUNC_T2	183	60	-123	0.21	0.16	-0.05	0	0	0	0	0	0	0	0
9/6/2024 21:28	24603	VARD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:28	20402	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/6/2024 21:28	45501	DERR_T2	0	0	0	0	0	0	0.48	0.57	1	1	0	600	600	0
9/6/2024 21:28	15203	SFAR_T2	0	0	0	0	0	0	-0.96	-0.99	0	0	0	0	0	0
9/6/2024 21:29	56501	ROCK_T2	2	2	0	0.65	0.75	0.1	0.27	0.26	0	0	0	0	0	0
9/6/2024 21:29	64305	LINC_T1	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
9/6/2024 21:29	64204	KINZ_T1	8	25	17	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
9/6/2024 21:29	60803	BUCK_T1	0	13	13	0	0.18	0.18	0	0	0	0	0	0	0	0
9/6/2024 21:29	62103	ELAN_T1	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 21:29	50501	MECH_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
9/6/2024 21:29	66504	SMAN_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
9/6/2024 21:29	53901	HALI_T2	1	2	1	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
9/6/2024 21:29	42802	SELI_T1	1	1	0	0.1	0.6	0.5	-1.19	-1.25	1	1	0	900	900	0
9/6/2024 21:29	67502	WEWI_T2	97	3	-94	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
9/6/2024 21:29	45501	DERR_T2	0	0	0	0	0	0	0.48	0.57	1	1	0	600	600	0
9/6/2024 21:29	46802	HEPB_T1	2	4	2	0.5	0.4	-0.1	-0.14	-0.16	0	0	0	0	0	0
9/6/2024 21:29	43108	SMIL_T2	3	3	0	0.6	0.73	0.13	0	0	0	0	0	0	0	0
9/6/2024 21:29	64201	KINZ_T1	6	25	19	0.42	0.26	-0.16	-0.5	-0.46	2	2	0	1200	1200	0
9/6/2024 21:29	43102	SMIL_T2	6	8	2	0.93	0.86	-0.07	0	0	0	0	0	0	0	0
9/6/2024 21:29	62101	ELAN_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:29	12605	MACA_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
9/6/2024 21:29	58705	ROSE_T2	5	5	0	2.66	2.68	0.02	0	0	0	0	0	0	0	0
9/6/2024 21:29	58703	ROSE_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
9/6/2024 21:29	40101	HUNT_T2	0	0	0	0	0	0	-0.62	-0.66	0	0	0	0	0	0
9/6/2024 21:29	67503	WEWI_T2	1	1	0	8.6	8.6	0	0.07	-0.04	0	0	0	0	0	0
9/6/2024 21:29	64203	KINZ_T1	0	2	2	0	0	0	0.06	0.05	1	1	0	600	600	0
9/6/2024 21:29	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
9/6/2024 21:29	43105	SMIL_T2	23	25	2	0.31	0.39	0.08	0	0	0	0	0	0	0	0
9/6/2024 21:29	66502	SMAN_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
9/6/2024 21:29	62105	ELAN_T1	2	87	85	0.1	0.12	0.02	0	0	0	0	0	0	0	0
9/6/2024 21:29	43103	SMIL_T2	22	22	0	0.66	0.67	0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/6/2024 21:29	24201	PROV_T3	1	1	0	6.9	6.7	-0.2	-1.25	-1.25	1	1	0	1200	1200	0
9/6/2024 21:29	53903	HALI_T2	2	2	0	1.8	1.8	0	0	0	0	0	0	0	0	0
9/6/2024 21:29	64202	KINZ_T1	4	10	6	0.65	0.35	-0.3	0	0	0	0	0	0	0	0
9/6/2024 21:29	53902	HALI_T2	1	1	0	4.6	5.6	1	-0.16	-0.17	0	0	0	0	0	0
9/6/2024 21:29	63804	HEMP_T1	1	1	0	5.3	5.7	0.4	-0.27	1.02	0	0	0	0	0	0
9/6/2024 21:29	55101	WERT_T1	0	0	0	0	0	0	-0.67	-0.6	1	1	0	900	900	0
9/6/2024 21:29	24204	PROV_T3	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
9/6/2024 21:29	56504	ROCK_T2	0	0	0	0	0	0	-0.16	-0.21	0	0	0	0	0	0
9/6/2024 21:29	62106	ELAN_T1	2	3	1	0.1	0.2	0.1	0	-0.01	0	0	0	0	0	0
9/6/2024 21:29	66505	SMAN_T2	3	3	0	0.2	0.77	0.57	0	0	0	0	0	0	0	0
9/6/2024 21:29	50502	MECH_T1	1	2	1	2.5	1.4	-1.1	-0.35	-0.37	0	0	0	0	0	0
9/6/2024 21:29	60801	BUCK_T1	0	22	22	0	0.16	0.16	-0.17	-0.16	0	0	0	0	0	0
9/6/2024 21:29	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:29	13702	SCHN_T1	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
9/6/2024 21:29	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:29	54505	ENOL_T2	1	1	0	1.2	1.3	0.1	-0.66	-0.66	1	1	0	600	600	0
9/6/2024 21:29	43101	SMIL_T2	0	0	0	0	0	0	-0.61	-0.63	0	0	0	0	0	0
9/6/2024 21:30	59201	THOM_T1	15	23	8	0.35	0.49	0.14	0	0	0	0	0	0	0	0
9/6/2024 21:30	14403	SSLA_T1	0	0	0	0	0	0	0.82	0.85	0	0	0	0	0	0
9/6/2024 21:30	45901	AUBU_T1	0	0	0	0	0	0	0.94	0.94	0	0	0	0	0	0
9/6/2024 21:30	43103	SMIL_T2	22	22	0	0.58	0.67	0.09	0	0	0	0	0	0	0	0
9/6/2024 21:30	50502	MECH_T1	1	8	7	2.6	0.43	-2.17	0	0	0	0	0	0	0	0
9/6/2024 21:30	43105	SMIL_T2	25	24	-1	0.37	0.37	0	0	0	0	0	0	0	0	0
9/6/2024 21:30	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:30	20603	GRWO_T2	47	47	0	0.19	0.18	-0.01	-0.6	-0.59	1	1	0	900	900	0
9/6/2024 21:30	67502	WEWI_T2	3	0	-3	0.1	0	-0.1	-0.93	-0.82	0	0	0	0	0	0
9/6/2024 21:30	54505	ENOL_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
9/6/2024 21:30	42802	SELI_T1	1	1	0	0.6	0.9	0.3	-2.38	-2.5	2	2	0	1800	1800	0
9/6/2024 21:30	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/6/2024 21:30	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:30	43108	SMIL_T2	3	3	0	0.73	0.4	-0.33	-1.03	-1.02	1	1	0	1200	1200	0
9/6/2024 21:30	57205	ROSS_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
9/6/2024 21:30	20601	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:30	53501	EVIL_T2	2	2	0	0.55	0.95	0.4	-0.01	-0.01	2	2	0	1200	1200	0
9/6/2024 21:30	50501	MECH_T1	0	4	4	0	0.23	0.23	0.5	0.31	0	0	0	0	0	0
9/6/2024 21:30	60101	COCA_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
9/6/2024 21:30	54506	ENOL_T2	0	0	0	0	0	0	0.22	0.21	1	1	0	600	600	0
9/6/2024 21:30	56501	ROCK_T2	2	2	0	0.75	0.8	0.05	0.27	0.26	0	0	0	0	0	0
9/6/2024 21:30	44801	EDAN_T2	142	166	24	0.44	0.5	0.06	-1.6	-1.65	0	0	0	0	0	0
9/6/2024 21:30	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 21:30	42503	ALTA_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
9/6/2024 21:30	45802	HEGI_T2	28	43	15	0.53	0.98	0.45	0.36	0.42	0	0	0	0	0	0
9/6/2024 21:30	46506	LOHA_T1	3	3	0	4.87	5.73	0.86	0.03	0.02	0	0	0	0	0	0
9/6/2024 21:30	57201	ROSS_T1	17	33	16	0.19	0.2	0.01	0	0	0	0	0	0	0	0
9/6/2024 21:30	54501	ENOL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:30	46001	BERW_T1	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
9/6/2024 21:30	10705	CATA_T2	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
9/6/2024 21:30	14702	TREX_T2	0	0	0	0	0	0	0.94	0.98	0	0	0	0	0	0
9/6/2024 21:30	14201	EALL_T1	0	0	0	0	0	0	0.74	0.74	0	0	0	0	0	0
9/6/2024 21:30	59202	THOM_T1	154	343	189	0.19	0.31	0.12	0	0	0	0	0	0	0	0
9/6/2024 21:30	45902	AUBU_T1	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
9/6/2024 21:30	46504	LOHA_T1	2	2	0	0.55	1.3	0.75	0	0	0	0	0	0	0	0
9/6/2024 21:30	47401	PENS_T1	0	0	0	0	0	0	0.59	0.54	0	0	0	0	0	0
9/6/2024 21:30	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 21:30	14401	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 21:30	43102	SMIL_T2	8	8	0	0.85	0.85	0	-0.81	-0.8	1	1	0	600	600	0
9/6/2024 21:30	67503	WEWI_T2	1	1	0	8.5	8.6	0.1	0.07	-0.04	0	0	0	0	0	0
9/6/2024 21:30	65205	PRIN_T1	1	1	0	1.7	1.9	0.2	0	0	0	0	0	0	0	0
9/6/2024 21:30	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:31	52404	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:31	62106	ELAN_T1	2	5	3	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
9/6/2024 21:31	64801	MONE_T2	2	4	2	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
9/6/2024 21:31	54501	ENOL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:31	52402	GRPA_T2	3	4	1	0.57	0.6	0.03	0	0	0	0	0	0	0	0
9/6/2024 21:31	60502	NMAN_T2	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
9/6/2024 21:31	54505	ENOL_T2	1	1	0	1.3	1.3	0	-0.66	-0.66	1	1	0	600	600	0
9/6/2024 21:31	61501	EPET_T2	1	1	0	4.9	5.3	0.4	0	0	0	0	0	0	0	0
9/6/2024 21:31	46004	BERW_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
9/6/2024 21:31	16002	DORN_T2	0	0	0	0	0	0	-0.47	-0.47	1	1	0	1200	1200	0
9/6/2024 21:31	62105	ELAN_T1	27	156	129	0.12	0.17	0.05	0.64	0.66	0	0	0	0	0	0
9/6/2024 21:31	53903	HALI_T2	2	2	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:31	61504	EPET_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
9/6/2024 21:31	61001	DONV_T1	0	0	0	0	0	0	-0.08	0.07	0	0	0	0	0	0
9/6/2024 21:31	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 21:31	45501	DERR_T2	0	0	0	0	0	0	0.48	0.57	1	1	0	600	600	0
9/6/2024 21:31	40504	CRES_T1	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
9/6/2024 21:31	62101	ELAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:31	46801	HEPB_T2	29	27	-2	0.24	0.26	0.02	0	0	0	0	0	0	0	0
9/6/2024 21:31	40201	BEGA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/6/2024 21:31	64802	MONE_T2	1	1	0	0.2	0.2	0	0.11	0.11	0	0	0	0	0	0
9/6/2024 21:31	51604	DUKE_T2	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
9/6/2024 21:31	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:31	55405	SHER_T1	11	6	-5	1.07	0.48	-0.59	-0.17	-0.17	0	0	0	0	0	0
9/6/2024 21:31	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:31	57002	WHHI_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
9/6/2024 21:31	64602	LEOL_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
9/6/2024 21:31	59003	MIFF_T1	1	1	0	0.2	0.8	0.6	0.48	0.42	0	0	0	0	0	0
9/6/2024 21:31	12701	MACU_T1	0	0	0	0	0	0	-1.13	-1.12	1	1	0	1200	1200	0
9/6/2024 21:31	43202	MVIL_T2	57	63	6	0.45	0.63	0.18	-0.66	-0.68	0	0	0	0	0	0
9/6/2024 21:31	60101	COCA_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
9/6/2024 21:31	15203	SPAR_T2	0	0	0	0	0	0	-0.96	-0.99	0	0	0	0	0	0
9/6/2024 21:31	62103	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/6/2024 21:31	46803	HEPB_T2	9	9	0	0.16	0.17	0.01	0.6	0.58	0	0	0	0	0	0
9/6/2024 21:31	53901	HALI_T2	2	4	2	0.7	0.48	-0.22	-2.27	-2.21	0	0	0	0	0	0
9/6/2024 21:31	44301	BEAV_T2	3	0	-3	0.1	0	-0.1	0.13	0.18	1	1	0	600	600	0
9/6/2024 21:31	52403	GRPA_T2	3	14	11	0.87	0.31	-0.56	-0.12	-0.13	0	0	0	0	0	0
9/6/2024 21:31	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:31	67605	WARW_T1	21	23	2	0.54	0.55	0.01	-2.13	-2.19	0	0	0	0	0	0
9/6/2024 21:31	57006	WHHI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:31	45402	WBLO_T2	59	61	2	0.48	0.46	-0.02	-1.16	-1.19	1	1	0	900	900	0
9/6/2024 21:31	59002	MIFF_T1	6	6	0	0.67	0.92	0.25	0	0	0	0	0	0	0	0
9/6/2024 21:31	64902	MILL_T2	0	0	0	0	0	0	-0.49	-0.48	1	1	0	900	900	0
9/6/2024 21:31	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:31	63401	HONY_T1	0	0	0	0	0	0	0	-0.05	1	1	0	600	600	0
9/6/2024 21:32	62105	ELAN_T1	27	156	129	0.12	0.17	0.05	0	0	0	0	0	0	0	0
9/6/2024 21:32	16004	DORN_T1	0	0	0	0	0	0	-0.71	-0.69	1	1	0	1200	1200	0
9/6/2024 21:32	55002	NEWP_T1	5	6	1	0.44	0.57	0.13	-2.22	-2.24	0	0	0	0	0	0
9/6/2024 21:32	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:32	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:32	42802	SELI_T1	1	1	0	0.6	0.9	0.3	-1.19	-1.25	1	1	0	900	900	0
9/6/2024 21:32	62106	ELAN_T1	2	5	3	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
9/6/2024 21:32	53903	HALI_T2	2	2	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:32	54501	ENOL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:32	46101	MACI_T2	0	0	0	0	0	0	0.71	0.68	0	0	0	0	0	0
9/6/2024 21:32	53803	MBRG_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
9/6/2024 21:32	40902	JESH_T1	0	0	0	0	0	0	-1.38	-1.38	0	0	0	0	0	0
9/6/2024 21:32	58703	ROSE_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
9/6/2024 21:32	21701	SUBU_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
9/6/2024 21:32	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:32	57403	SPAN_T1	0	1	1	0	0.1	0.1	0.13	0.12	0	0	0	0	0	0
9/6/2024 21:32	55001	NEWP_T1	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
9/6/2024 21:32	66505	SMAN_T2	3	3	0	0.77	0.77	0	0.05	0.11	2	2	0	1500	1500	0
9/6/2024 21:32	44801	EDAN_T2	142	166	24	0.44	0.5	0.06	-1.6	-1.65	0	0	0	0	0	0
9/6/2024 21:32	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:32	54505	ENOL_T2	1	1	0	1.3	1.3	0	-0.66	-0.66	1	1	0	600	600	0
9/6/2024 21:32	58705	ROSE_T2	5	5	0	2.66	2.78	0.12	0	0	0	0	0	0	0	0
9/6/2024 21:32	62103	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/6/2024 21:32	62101	ELAN_T1	1	1	0	0.3	0.4	0.1	2.76	2.75	0	0	0	0	0	0
9/6/2024 21:32	53501	EVIL_T2	2	2	0	0.55	0.95	0.4	-0.01	-0.01	1	1	0	600	600	0
9/6/2024 21:32	21705	SUBU_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
9/6/2024 21:32	53901	HALI_T2	2	4	2	0.7	0.48	-0.22	-2.27	-2.21	0	0	0	0	0	0
9/6/2024 21:32	21704	SUBU_T1	0	0	0	0	0	0	-2.39	-2.37	2	2	0	2400	2400	0
9/6/2024 21:32	45702	LIND_T2	1	1	0	0.4	0.5	0.1	-0.48	-0.45	0	0	0	0	0	0
9/6/2024 21:32	56501	ROCK_T2	2	2	0	0.75	0.8	0.05	0.54	0.52	0	0	0	0	0	0
9/6/2024 21:32	57401	SPAN_T1	2	2	0	1.2	1.8	0.6	0	0	0	0	0	0	0	0
9/6/2024 21:32	48301	ORWI_T1	2	2	0	5.6	5.6	0	-0.46	-0.56	1	1	0	900	900	0
9/6/2024 21:32	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:32	67503	WEWI_T2	1	1	0	8.5	8.6	0.1	0.07	-0.04	0	0	0	0	0	0
9/6/2024 21:32	67502	WEWI_T2	3	0	-3	0.1	0	-0.1	-0.31	-0.27	0	0	0	0	0	0
9/6/2024 21:32	11104	EGYP_T1	0	0	0	0	0	0	0.67	0.63	0	0	0	0	0	0
9/6/2024 21:32	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:33	63501	HEID_T8K1-2	48	48	0	0.63	0.56	-0.07	0.96	1.11	0	0	0	0	0	0
9/6/2024 21:33	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:33	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:33	64203	KINZ_T1	0	0	0	0	0	0	0.06	0.05	1	1	0	600	600	0
9/6/2024 21:33	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:33	57401	SPAN_T1	2	2	0	1.2	1.8	0.6	0	0	0	0	0	0	0	0
9/6/2024 21:33	42903	MIDD_T2	2	2	0	1.05	1.6	0.55	-0.11	-0.3	0	0	0	0	0	0
9/6/2024 21:33	67703	WERN_T2	0	0	0	0	0	0	0.03	0.03	1	1	0	900	900	0
9/6/2024 21:33	46203	DANV_T2	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
9/6/2024 21:33	42802	SELI_T1	1	1	0	0.6	0.9	0.3	-1.19	-1.25	1	1	0	900	900	0
9/6/2024 21:33	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 21:33	43102	SMIL_T2	8	8	0	0.85	0.85	0	-0.81	-0.8	1	1	0	600	600	0
9/6/2024 21:33	67805	WLAN_T1	195	422	227	0.17	0.22	0.05	0	0	0	0	0	0	0	0
9/6/2024 21:33	46504	LOHA_T1	2	2	0	0.55	1.3	0.75	0	0	0	0	0	0	0	0
9/6/2024 21:33	64201	KINZ_T1	6	25	19	0.38	0.26	-0.12	0	0	0	0	0	0	0	0
9/6/2024 21:33	64204	KINZ_T1	5	25	20	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/6/2024 21:33	67801	WLAN_T1	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
9/6/2024 21:33	61801	EELI_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/6/2024 21:33	43103	SMIL_T2	22	22	0	0.58	0.67	0.09	0	0	0	0	0	0	0	0
9/6/2024 21:33	67803	WLAN_T1	0	0	0	0	0	0	-1.42	-1.43	0	0	0	0	0	0
9/6/2024 21:33	40602	PIGR_T1	0	0	0	0	0	0	0.06	0.09	0	0	0	0	0	0
9/6/2024 21:33	61803	EELI_T2	0	0	0	0	0	0	0.34	0.25	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/6/2024 21:33	60101	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:33	51402	LYKE_T1	0	0	0	0	0	0	-0.68	-0.76	0	0	0	0	0	0
9/6/2024 21:33	25603	ARRO_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
9/6/2024 21:33	42902	MIDD_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:33	57403	SPAN_T1	0	1	1	0	0.1	0.1	0.13	0.12	0	0	0	0	0	0
9/6/2024 21:33	46506	LOHA_T1	3	3	0	4.87	5.73	0.86	0.03	0.02	0	0	0	0	0	0
9/6/2024 21:33	64202	KINZ_T1	3	10	7	0.57	0.35	-0.22	0	0	0	0	0	0	0	0
9/6/2024 21:33	63602	LETO_T1	0	0	0	0	0	0	-0.2	-0.15	0	0	0	0	0	0
9/6/2024 21:33	46102	MACI_T1	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
9/6/2024 21:33	43105	SMIL_T2	25	24	-1	0.37	0.37	0	0	0	0	0	0	0	0	0
9/6/2024 21:33	56501	ROCK_T2	2	2	0	0.75	0.8	0.05	0.27	0.26	0	0	0	0	0	0
9/6/2024 21:33	65604	QVIL_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
9/6/2024 21:33	43108	SMIL_T2	3	3	0	0.73	0.4	-0.33	0	0	0	0	0	0	0	0
9/6/2024 21:33	46206	DANV_T2	0	0	0	0	0	0	0.31	0.27	2	2	0	2100	2100	0
9/6/2024 21:34	61502	EPET_T1	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
9/6/2024 21:34	58102	NEKI_T1	2	1	-1	1	1.8	0.8	-0.67	-0.69	1	1	0	1200	1200	0
9/6/2024 21:34	51202	MTON_T2	0	0	0	0	0	0	-0.98	-1.01	1	1	0	1200	1200	0
9/6/2024 21:34	47104	MARL_T1	0	0	0	0	0	0	-0.81	-0.85	0	0	0	0	0	0
9/6/2024 21:34	47001	HUGH_T2	6	13	7	1.55	0.9	-0.65	-0.74	-0.79	0	0	0	0	0	0
9/6/2024 21:34	52401	GRPA_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
9/6/2024 21:34	43201	MVIL_T2	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
9/6/2024 21:34	64203	POIN_T2	0	0	0	0	0	0	0.31	0.3	1	1	0	900	900	0
9/6/2024 21:34	52403	GRPA_T2	3	14	11	0.87	0.31	-0.56	0	0	0	0	0	0	0	0
9/6/2024 21:34	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:34	10801	CHHI_T1	0	0	0	0	0	0	-1.16	-1.15	2	2	0	1800	1800	0
9/6/2024 21:34	57401	SPAN_T1	2	2	0	1.2	1.8	0.6	0.57	0.55	0	0	0	0	0	0
9/6/2024 21:34	45501	DERR_T2	0	0	0	0	0	0	0.48	0.57	1	1	0	600	600	0
9/6/2024 21:34	46004	BERW_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
9/6/2024 21:34	13503	MCMI_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
9/6/2024 21:34	20401	ASHF_T2	0	5	5	0	0.34	0.34	0	0	0	0	0	0	0	0
9/6/2024 21:34	46402	FLEM_T2	580	837	257	0.39	0.45	0.06	-0.16	-0.19	0	0	0	0	0	0
9/6/2024 21:34	57201	ROSS_T1	17	33	16	0.19	0.2	0.01	0	0	0	0	0	0	0	0
9/6/2024 21:34	57203	ROSS_T1	0	0	0	0	0	0	0.59	0.54	0	0	0	0	0	0
9/6/2024 21:34	53903	HALI_T2	2	2	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:34	42802	SELI_T1	1	1	0	0.6	0.9	0.3	-1.19	-1.25	1	1	0	900	900	0
9/6/2024 21:34	52404	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:34	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 21:34	46401	FLEM_T2	550	701	151	0.49	0.59	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:34	53901	HALI_T2	2	4	2	0.7	0.48	-0.22	-1.14	-1.11	0	0	0	0	0	0
9/6/2024 21:34	12701	MACI_T1	0	0	0	0	0	0	-1.13	-1.12	1	1	0	1200	1200	0
9/6/2024 21:34	59101	WALK_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
9/6/2024 21:34	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:34	43202	MVIL_T2	57	63	6	0.45	0.63	0.18	-0.66	-0.68	0	0	0	0	0	0
9/6/2024 21:34	52402	GRPA_T2	3	4	1	0.57	0.6	0.03	0	0	0	0	0	0	0	0
9/6/2024 21:34	20402	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/6/2024 21:34	55101	WERT_T1	0	0	0	0	0	0	-0.67	-0.6	1	1	0	900	900	0
9/6/2024 21:34	20403	ASHF_T2	0	0	0	0	0	0	0.3	0.22	0	0	0	0	0	0
9/6/2024 21:34	55508	HERS_T2	2	2	0	1.5	0.7	-0.8	0	0	0	0	0	0	0	0
9/6/2024 21:35	52404	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:35	46402	FLEM_T2	580	837	257	0.39	0.45	0.06	-0.16	-0.19	0	0	0	0	0	0
9/6/2024 21:35	60101	COCA_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
9/6/2024 21:35	45802	HEGI_T2	28	43	15	0.53	0.98	0.45	0.36	0.42	0	0	0	0	0	0
9/6/2024 21:35	52402	GRPA_T2	3	4	1	0.57	0.6	0.03	-0.71	-0.72	0	0	0	0	0	0
9/6/2024 21:35	46401	FLEM_T2	550	701	151	0.49	0.59	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:35	46001	BERW_T1	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
9/6/2024 21:35	44801	EDAN_T2	142	166	24	0.44	0.5	0.06	-1.6	-1.65	0	0	0	0	0	0
9/6/2024 21:35	52403	GRPA_T2	3	14	11	0.87	0.31	-0.56	0	0	0	0	0	0	0	0
9/6/2024 21:35	42201	SHEN_T2	3	3	0	0.13	0.13	0	0.43	0.42	0	0	0	0	0	0
9/6/2024 21:35	47502	NECO_T1	1	1	0	1	1	0	0.79	0.78	0	0	0	0	0	0
9/6/2024 21:35	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 21:35	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:35	55101	WERT_T1	0	0	0	0	0	0	-0.67	-0.6	1	1	0	900	900	0
9/6/2024 21:35	42802	SELI_T1	1	1	0	0.6	0.9	0.3	-1.19	-1.25	1	1	0	900	900	0
9/6/2024 21:35	60701	BREC_T1	0	0	0	0	0	0	-0.37	-0.4	1	1	0	600	600	0
9/6/2024 21:35	61801	EELI_T2	1	0	-1	0.4	0	-0.4	-0.87	-0.87	1	1	0	600	600	0
9/6/2024 21:35	55405	SHER_T1	11	6	-5	1.07	0.48	-0.59	-0.17	-0.17	0	0	0	0	0	0
9/6/2024 21:36	41301	FISH_T1	2	2	0	1.1	0.85	-0.25	-0.13	-0.13	0	0	0	0	0	0
9/6/2024 21:36	53802	MBRG_T2	0	0	0	0	0	0	0.5	0.46	0	0	0	0	0	0
9/6/2024 21:36	59102	WALK_T2	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
9/6/2024 21:36	56501	ROCK_T2	2	2	0	0.75	0.8	0.05	0.27	0.26	0	0	0	0	0	0
9/6/2024 21:36	42802	SELI_T1	1	1	0	0.6	0.9	0.3	-2.5	-2.33	2	2	0	1800	1800	0
9/6/2024 21:36	64801	MONE_T2	2	4	2	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
9/6/2024 21:36	40101	HUNT_T2	0	0	0	0	0	0	-0.66	-0.62	0	0	0	0	0	0
9/6/2024 21:36	67605	WARW_T1	21	23	2	0.54	0.55	0.01	-1.09	-1.1	0	0	0	0	0	0
9/6/2024 21:36	54206	PENN_T2	40	54	14	0.11	0.15	0.04	0.1	0.1	0	0	0	0	0	0
9/6/2024 21:36	42503	ALTA_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
9/6/2024 21:36	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:36	42903	MIDD_T2	2	2	0	1.05	1.6	0.55	0	0	0	0	0	0	0	0
9/6/2024 21:36	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:36	54204	PENN_T2	3	3	0	0.17	0.2	0.03	0	0	0	0	0	0	0	0
9/6/2024 21:36	45402	WBLO_T2	59	61	2	0.48	0.46	-0.02	-1.19	-1.15	1	1	0	900	900	0
9/6/2024 21:36	43202	MVIL_T2	57	63	6	0.45	0.63	0.18	-0.68	-0.67	0	0	0	0	0	0
9/6/2024 21:36	67503	WEWI_T2	1	1	0	8.5	8.6	0.1	-0.04	-0.04	0	0	0	0	0	0
9/6/2024 21:36	43801	SWIL_T1	51	30	-21	0.3	0.39	0.09	0	0	0	0	0	0	0	0
9/6/2024 21:36	65901	SAKR_T2	1	1	0	8.7	9	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:36	46506	LOHA_T1	3	3	0	4.87	5.73	0.86	0.02	0	0	0	0	0	0	0
9/6/2024 21:36	46504	LOHA_T1	2	2	0	0.55	1.3	0.75	0	0	0	0	0	0	0	0
9/6/2024 21:36	44201	POIN_T1	55	54	-1	0.17	0.16	-0.01	-1.61	-1.65	2	2	0	2100	2100	0
9/6/2024 21:36	41902	REED_T1	0	0	0	0	0	0	0.9	0.88	0	0	0	0	0	0
9/6/2024 21:36	11301	EMMA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
9/6/2024 21:36	41901	REED_T1	6	8	2	0.27	0.28	0.01	0	0	0	0	0	0	0	0
9/6/2024 21:36	59101	WALK_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
9/6/2024 21:36	40801	EXCH_T2	0	0	0	0	0	0	0.91	0.88	0	0	0	0	0	0
9/6/2024 21:36	42201	SHEN_T2	3	3	0	0.13	0.13	0	0.42	0.4	0	0	0	0	0	0
9/6/2024 21:36	55101	WERT_T1	0	0	0	0	0	0	-0.67	-0.6	1	1	0	900	900	0
9/6/2024 21:36	43802	SWIL_T1	0	0	0	0	0	0	-0.03	-0.05	1	1	0	600	600	0
9/6/2024 21:36	53903	HALI_T2	2	2	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:36	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 21:36	42902	MIDD_T2	0	5	5	0	0.1	0.1	-0.58	-0.62	0	0	0	0	0	0
9/6/2024 21:36	52403	GRPA_T2	3	14	11	0.87	0.31	-0.56	-0.12	-0.13	0	0	0	0	0	0
9/6/2024 21:36	66703	STRA_T1	4	0	-4	0.23	0	-0.23	-0.04	-0.07	0	0	0	0	0	0
9/6/2024 21:36	13704	SOHN_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
9/6/2024 21:36	52402	GRPA_T2	3	4	1	0.57	0.6	0.03	-0.71	-0.72	0	0	0	0	0	0
9/6/2024 21:36	67502	WEWI_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:36	21501	CEAV_T2	0	0	0	0	0	0	-0.4	-0.4	1	1	0	1200	1200	0
9/6/2024 21:36	45501	DERR_T2	0	0	0	0	0	0	0.57	0.44	1	1	0	600	600	0
9/6/2024 21:36	52404	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:36	54202	PENN_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
9/6/2024 21:36	53901	HALI_T2	2	4	2	0.7	0.48	-0.22	-1.14	-1.11	0	0	0	0	0	0
9/6/2024 21:36	64802	MONE_T2	1	1	0	0.2	0.2	0	0.11	0.29	0	0	0	0	0	0
9/6/2024 21:36	65904	SAKR_T2	0	0	0	0	0	0	-1.76	-1.78	2	2	0	900	900	0
9/6/2024 21:37	55002	NEWP_T1	5	6	1	0.44	0.57	0.13	-0.24	-0.24	0	0	0	0	0	0
9/6/2024 21:37	64203	KINZ_T1	0	0	0	0	0	0	0.05	0.08	1	1	0	600	600	0
9/6/2024 21:37	41901	REED_T1	6	8	2	0.27	0.28	0.01	0	0	0	0	0	0	0	0
9/6/2024 21:37	63602	LETO_T1	0	0	0	0	0	0	-0.15	-0.21	0	0	0	0	0	0
9/6/2024 21:37	28102	TWLA_T2	9	5	-4	0.36	0.5	0.14	0.22	0.19	0	0	0	0	0	0
9/6/2024 21:37	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 21:37	46301	ROHR_T1	9	72	63	0.99	0.28	-0.71	0	0	0	0	0	0	0	0
9/6/2024 21:37	43202	MVIL_T2	57	63	6	0.45	0.63	0.18	-0.68	-0.67	0	0	0	0	0	0
9/6/2024 21:37	23001	SAJO_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
9/6/2024 21:37	52002	LING_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/6/2024 21:37	55001	NEWP_T1	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
9/6/2024 21:37	44802	EDAN_T2	0	0	0	0	0	0	-0.67	-0.73	0	0	0	0	0	0
9/6/2024 21:37	46302	ROHR_T1	4	5	1	1.75	1.94	0.19	0.2	0.18	0	0	0	0	0	0
9/6/2024 21:37	53802	MBRG_T2	0	0	0	0	0	0	0.46	0.09	0	0	0	0	0	0
9/6/2024 21:37	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:37	53501	EVIL_T2	2	2	0	0.55	0.95	0.4	-0.01	-0.01	1	1	0	600	600	0
9/6/2024 21:37	12302	LANA_T2	0	0	0	0	0	0	-1.39	-1.41	2	2	0	1500	1500	0
9/6/2024 21:37	52006	LING_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/6/2024 21:37	64201	KINZ_T1	6	25	19	0.38	0.26	-0.12	0	0	0	0	0	0	0	0
9/6/2024 21:37	64202	KINZ_T1	3	10	7	0.57	0.35	-0.22	0	0	0	0	0	0	0	0
9/6/2024 21:37	60701	BREC_T1	0	0	0	0	0	0	-0.4	0.17	1	0	-1	600	0	-600
9/6/2024 21:37	46004	BERW_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
9/6/2024 21:37	52004	LING_T2	2	2	0	6.35	6.2	-0.15	0.22	0.22	0	0	0	0	0	0
9/6/2024 21:37	55101	WERT_T1	0	0	0	0	0	0	-1.2	-1.35	2	2	0	1800	1800	0
9/6/2024 21:37	41902	REED_T1	0	0	0	0	0	0	0.9	0.88	0	0	0	0	0	0
9/6/2024 21:37	60101	COCA_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
9/6/2024 21:37	44801	EDAN_T2	142	166	24	0.44	0.5	0.06	0	0	0	0	0	0	0	0
9/6/2024 21:37	64204	KINZ_T1	5	25	20	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/6/2024 21:37	58401	MORO_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
9/6/2024 21:38	52102	MEIS_T1	90	97	7	0.14	0.2	0.06	0	0	0	0	0	0	0	0
9/6/2024 21:38	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 21:38	58202	NEWV_T1	0	0	0	0	0	0	0.44	0.18	0	0	0	0	0	0
9/6/2024 21:38	56501	ROCK_T2	2	2	0	0.75	0.8	0.05	0.26	0.21	0	0	0	0	0	0
9/6/2024 21:38	53901	HALI_T2	2	4	2	0.7	0.48	-0.22	-1.11	-1.15	0	0	0	0	0	0
9/6/2024 21:38	61504	EPET_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
9/6/2024 21:38	52101	MEIS_T1	2	2	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:38	53903	HALI_T2	2	2	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:38	63501	HEID_TBK1-2	48	48	0	0.63	0.56	-0.07	0.56	0.49	0	0	0	0	0	0
9/6/2024 21:38	61501	EPET_T2	1	1	0	4.9	5.3	0.4	0	0	0	0	0	0	0	0
9/6/2024 21:38	65502	MOJO_T2	184	156	-28	0.17	0.14	-0.03	-1.74	-0.87	1	0	-1	900	0	-900
9/6/2024 21:38	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:38	65503	MOJO_T2	13	3	-10	0.1	0.1	0	0	0	0	0	0	0	0	0
9/6/2024 21:38	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:39	67605	WARW_T1	21	23	2	0.54	0.55	0.01	-1.09	-1.1	0	0	0	0	0	0
9/6/2024 21:39	56503	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:39	57401	SPAN_T1	2	2	0	1.2	1.8	0.6	0	0	0	0	0	0	0	0
9/6/2024 21:39	64202	KINZ_T1	3	10	7	0.57	0.35	-0.22	0	0	0	0	0	0	0	0
9/6/2024 21:39	40201	BEGA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/6/2024 21:39	64201	KINZ_T1	6	25	19	0.38	0.26	-0.12	0	0	0	0	0	0	0	0
9/6/2024 21:39	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/6/2024 21:39	54501	ENOL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/6/2024 21:39	52006	LING_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/6/2024 21:39	52004	LING_T2	2	2	0	6.35	6.2	-0.15	0.22	0.22	0	0	0	0	0	0
9/6/2024 21:39	64203	KINZ_T1	0	0	0	0	0	0	0.05	0.08	1	1	0	600	600	0
9/6/2024 21:39	43108	SMIL_T2	3	3	0	0.73	0.4	-0.33	0	0	0	0	0	0	0	0
9/6/2024 21:39	56504	ROCK_T2	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
9/6/2024 21:39	44301	BEAV_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:39	43104	SMIL_T2	0	0	0	0	0	0	-0.71	-0.75	1	1	0	300	300	0
9/6/2024 21:39	54505	ENOL_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
9/6/2024 21:39	54504	ENOL_T2	0	0	0	0	0	0	-1.5	-1.49	1	1	0	600	600	0
9/6/2024 21:39	56501	ROCK_T2	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
9/6/2024 21:39	53901	HALI_T2	2	4	2	0.7	0.48	-0.22	-2.21	-2.3	0	0	0	0	0	0
9/6/2024 21:39	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2024 21:39	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:39	53903	HALI_T2	2	2	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:39	43102	SMIL_T2	8	8	0	0.85	0.85	0	0	0	0	0	0	0	0	0
9/6/2024 21:39	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:39	52002	LING_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/6/2024 21:39	41901	REED_T1	6	8	2	0.27	0.28	0.01	0	0	0	0	0	0	0	0
9/6/2024 21:39	43103	SMIL_T2	22	22	0	0.58	0.67	0.09	0	0	0	0	0	0	0	0
9/6/2024 21:39	64204	KINZ_T1	5	25	20	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/6/2024 21:39	43105	SMIL_T2	25	24	-1	0.37	0.37	0	0	0	0	0	0	0	0	0
9/6/2024 21:39	57403	SPAN_T1	0	1	1	0	0.1	0.1	0.24	0.23	0	0	0	0	0	0
9/6/2024 21:40	57006	WHHI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:40	66505	SMAN_T2	3	3	0	0.77	0.77	0	0	0	0	0	0	0	0	0
9/6/2024 21:40	59101	WALK_T2	0	0	0	0	0	0	-0.31	-0.28	0	0	0	0	0	0
9/6/2024 21:40	67602	WARW_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
9/6/2024 21:40	57004	WHHI_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
9/6/2024 21:40	66504	SMAN_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
9/6/2024 21:40	58401	MORO_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
9/6/2024 21:41	41001	LAUR_T2	0	59	59	0	0.16	0.16	0	0	0	0	0	0	0	0
9/6/2024 21:41	44802	EDAN_T2	0	0	0	0	0	0	-0.67	-0.73	0	0	0	0	0	0
9/6/2024 21:41	41002	LAUR_T2	2	17	15	0.65	0.24	-0.41	0.1	0.09	0	0	0	0	0	0
9/6/2024 21:41	40101	HUNT_T2	0	0	0	0	0	0	-0.66	-0.62	0	0	0	0	0	0
9/6/2024 21:41	44801	EDAN_T2	142	166	24	0.44	0.5	0.06	0	0	0	0	0	0	0	0
9/6/2024 21:41	44301	BEAV_T2	3	0	-3	0.1	0	-0.1	0.18	0.09	1	1	0	600	600	0
9/6/2024 21:42	55101	WERT_T1	0	0	0	0	0	0	-0.6	-0.68	1	1	0	900	900	0
9/6/2024 21:42	52404	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/6/2024 21:42	53903	HALI_T2	2	2	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
9/6/2024 21:42	52402	GRPA_T2	3	4	1	0.57	0.6	0.03	0	0	0	0	0	0	0	0
9/6/2024 21:42	53901	HALI_T2	2	4	2	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
9/6/2024 21:42	52403	GRPA_T2	3	14	11	0.87	0.31	-0.56	-0.13	-0.16	0	0	0	0	0	0
9/6/2024 21:42	53902	HALI_T2	1	1	0	5.3	5.6	0.3	-0.17	-0.17	0	0	0	0	0	0
9/6/2024 21:43	54204	PENN_T2	3	3	0	0.17	0.2	0.03	0	0	0	0	0	0	0	0
9/6/2024 21:43	54202	PENN_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
9/6/2024 21:43	15703	TANN_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
9/6/2024 21:43	15702	TANN_T2	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
9/6/2024 21:43	54206	PENN_T2	40	54	14	0.11	0.15	0.04	0.1	0.11	0	0	0	0	0	0
9/6/2024 21:47	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/6/2024 21:54	46002	BERW_T2	0	0	0	0	0	0	-1.13	-1.12	1	1	0	900	900	0
9/6/2024 22:00	67505	WEWI_T1	0	0	0	0	0	0	0.06	0.04	1	1	0	900	900	0
9/6/2024 22:13	65901	SKAR_T2	1	1	0	9	8	-1	-0.71	-0.78	1	1	0	600	600	0
9/6/2024 22:17	52001	LING_T1	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
9/6/2024 22:20	10801	CHHI_T1	0	0	0	0	0	0	-1.27	-1.27	2	2	0	1500	1500	0
9/6/2024 22:22	40101	HUNT_T2	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
9/6/2024 22:26	58402	MORO_T1	0	0	0	0	0	0	0.27	0.25	1	1	0	900	900	0
9/6/2024 22:41	24105	EHAZ_T1	4	4	0	6.2	6.03	-0.17	0	0	0	0	0	0	0	0
9/6/2024 22:41	24102	EHAZ_T1	0	0	0	0	0	0	0.63	0.44	0	0	0	0	0	0
9/6/2024 22:51	67602	WARW_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
9/6/2024 22:51	60101	COCA_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
9/6/2024 22:54	67602	WARW_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
9/6/2024 22:55	67602	WARW_T2	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
9/6/2024 23:00	52502	PROG_T2	0	0	0	0	0	0	-0.54	-0.57	1	1	0	900	900	0
9/6/2024 23:02	43801	SWIL_T1	2	2	0	3.3	3.25	-0.05	-0.78	-0.79	1	1	0	600	600	0
9/7/2024 0:03	64501	LAVI_T1	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
9/7/2024 1:56	20403	ASHF_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
9/7/2024 2:50	67502	WEWI_T2	213	147	-66	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
9/7/2024 2:50	67503	WEWI_T2	1	1	0	9.5	9.5	0	-0.26	-0.29	0	0	0	0	0	0
9/7/2024 4:47	28403	HART_T2	0	0	0	0	0	0	-0.81	-0.81	1	1	0	900	900	0
9/7/2024 7:34	24204	PROV_T3	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
9/7/2024 7:34	24201	PROV_T3	2	1	-1	3.15	6	2.85	-1.35	-1.37	1	1	0	1200	1200	0
9/7/2024 7:45	12006	HATF_T1	0	0	0	0	0	0	0.81	0.83	0	0	0	0	0	0
9/7/2024 7:54	22003	BOHE_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/7/2024 7:54	22002	BOHE_T1	0	0	0	0	0	0	0.28	0.35	0	0	0	0	0	0
9/7/2024 8:01	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 8:07	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 8:11	63305	GREE_T1	0	0	0	0	0	0	-2.07	-2.13	1	1	0	900	900	0
9/7/2024 8:13	63501	HEID_TBK1-2	49	48	-1	1.33	0.98	-0.35	0.49	0.5	0	0	0	0	0	0
9/7/2024 8:14	63501	HEID_TBK1-2	49	48	-1	1.33	0.98	-0.35	0.49	0.5	0	0	0	0	0	0
9/7/2024 8:15	63305	GREE_T1	0	0	0	0	0	0	-2.07	-2.13	1	1	0	900	900	0
9/7/2024 8:17	47101	MARL_T1	1	1	0	0.7	0.4	-0.3	-0.36	-0.33	0	0	0	0	0	0
9/7/2024 8:18	58701	ROSE_T2	0	0	0	0	0	0	-0.21	-0.17	1	1	0	600	600	0
9/7/2024 8:18	58705	ROSE_T2	5	5	0	1.46	1.36	-0.1	0	0	0	0	0	0	0	0
9/7/2024 8:26	67803	WLAN_T1	0	0	0	0	0	0	-0.85	-0.82	0	0	0	0	0	0
9/7/2024 8:32	13503	MCMI_T2	0	0	0	0	0	0	-0.97	-0.97	0	0	0	0	0	0
9/7/2024 8:40	67605	WARW_T1	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
9/7/2024 8:40	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 8:41	22002	BOHE_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
9/7/2024 8:46	64203	KINZ_T1	0	0	0	0	0	0	-0.11	-0.08	1	1	0	600	600	0
9/7/2024 8:46	64204	KINZ_T1	1	1	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
9/7/2024 8:48	40101	HUNT_T2	1	4	3	1.3	1.65	0.35	-0.56	-0.62	0	0	0	0	0	0
9/7/2024 8:48	41902	REED_T1	2	0	-2	0.65	0	-0.65	0.82	0.83	0	0	0	0	0	0
9/7/2024 8:50	41902	REED_T1	2	0	-2	0.65	0	-0.65	0.82	0.83	0	0	0	0	0	0
9/7/2024 8:52	67503	WEWI_T2	1	1	0	7.3	7.2	-0.1	-0.12	0.01	0	0	0	0	0	0
9/7/2024 9:14	63403	HONY_T2	0	0	0	0	0	0	-0.5	-0.28	1	1	0	600	600	0
9/7/2024 9:18	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 9:27	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 9:29	40702	FRLD_T1	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
9/7/2024 9:30	63801	HEMP_T1	0	0	0	0	0	0	-0.83	-0.84	1	1	0	900	900	0
9/7/2024 9:30	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
9/7/2024 9:31	54506	ENOL_T2	0	0	0	0	0	0	0.06	0.03	1	1	0	600	600	0
9/7/2024 9:46	52002	LING_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
9/7/2024 9:46	52004	LING_T2	2	2	0	4.45	4.45	0	0	0	0	0	0	0	0	0
9/7/2024 9:53	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 9:59	46401	FLEM_T2	0	1	1	0	0.1	0.1	-0.42	-0.41	0	0	0	0	0	0
9/7/2024 9:59	46402	FLEM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/7/2024 10:00	53601	DALM_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/7/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
9/7/2024 10:00	52403	GRPA_T2	1	1	0	2.4	2.2	-0.2	-0.83	-0.84	0	0	0	0	0	0
9/7/2024 10:00	53602	DALM_T2	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
9/7/2024 10:00	59002	MIFF_T1	5	5	0	0.16	0.18	0.02	0	0	0	0	0	0	0	0
9/7/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
9/7/2024 10:00	53901	HALI_T2	0	0	0	0	0	0	-1.17	-1.18	0	0	0	0	0	0
9/7/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	0.09	0.11	1	1	0	600	600	0
9/7/2024 10:00	59003	MIFF_T1	1	1	0	0.3	0.5	0.2	-0.77	-0.73	0	0	0	0	0	0
9/7/2024 10:00	28102	TWLA_T2	5	9	4	0.18	0.26	0.08	0.21	0.22	0	0	0	0	0	0
9/7/2024 10:00	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
9/7/2024 10:00	67503	WEWI_T2	1	1	0	6.6	6.4	-0.2	0.03	-0.02	0	0	0	0	0	0
9/7/2024 10:00	53902	HALI_T2	1	1	0	4.2	4.6	0.4	0	0	0	0	0	0	0	0
9/7/2024 10:06	15603	NSTR_T2	0	1	1	0	0	0	-0.29	-0.28	0	0	0	0	0	0
9/7/2024 10:06	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 10:07	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 10:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 10:09	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 10:09	67605	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/7/2024 10:09	45901	AUBU_T1	0	0	0	0	0	0	0.99	1.02	0	0	0	0	0	0
9/7/2024 10:11	22002	BOHE_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
9/7/2024 10:14	12003	HATF_T1	0	0	0	0	0	0	1.21	1.11	0	0	0	0	0	0
9/7/2024 10:18	52403	GRPA_T2	1	1	0	2.2	1.8	-0.4	-0.84	-0.83	0	0	0	0	0	0
9/7/2024 10:21	67503	WEWI_T2	1	1	0	6.4	6.2	-0.2	-0.03	0.12	0	0	0	0	0	0
9/7/2024 10:22	45902	AUBU_T1	0	0	0	0	0	0	-0.84	-0.85	1	1	0	600	600	0
9/7/2024 10:42	10801	CHHI_T1	2	0	-2	0.1	0	-0.1	-1.76	-1.77	3	3	0	2100	2100	0
9/7/2024 10:44	40602	PIGR_T1	0	0	0	0	0	0	-1.2	-1.21	1	1	0	600	600	0
9/7/2024 10:46	53502	EVIL_T2	0	0	0	0	0	0	0.06	0.01	0	0	0	0	0	0
9/7/2024 10:46	53501	EVIL_T2	2	3	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
9/7/2024 10:51	13902	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 10:51	59202	THOM_T1	331	386	55	1.08	2.53	1.45	0	0	0	0	0	0	0	0
9/7/2024 10:51	13905	SEID_T1	0	0	0	0	0	0	-0.84	-0.8	1	1	0	1200	1200	0
9/7/2024 10:59	46402	FLEM_T2	3	0	-3	0.3	0	-0.3	-0.31	-0.33	0	0	0	0	0	0
9/7/2024 10:59	46401	FLEM_T2	5	1	-4	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
9/7/2024 11:00	46402	FLEM_T2	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
9/7/2024 11:00	46401	FLEM_T2	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
9/7/2024 11:00	12006	HATF_T1	0	0	0	0	0	0	1.01	0.97	0	0	0	0	0	0
9/7/2024 11:03	22701	MINO_T1	0	0	0	0	0	0	-0.86	-0.85	1	1	0	600	600	0
9/7/2024 11:06	42802	SELI_T1	0	0	0	0	0	0	-2.51	-2.53	2	2	0	1800	1800	0
9/7/2024 11:07	54201	PENN_T1	6	9	3	0.9	0.67	-0.23	-0.96	-0.93	0	0	0	0	0	0
9/7/2024 11:07	54203	PENN_T1	18	18	0	0.45	0.44	-0.01	0	0	0	0	0	0	0	0
9/7/2024 11:09	10705	CATA_T2	0	0	0	0	0	0	-1.04	-1.07	0	0	0	0	0	0
9/7/2024 11:11	10705	CATA_T2	0	0	0	0	0	0	-1.04	-1.07	0	0	0	0	0	0
9/7/2024 11:16	21701	SUBU_T1	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
9/7/2024 11:16	21705	SUBU_T1	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
9/7/2024 11:16	21703	SUBU_T1	0	0	0	0	0	0	-0.14	-0.24	0	0	0	0	0	0
9/7/2024 11:17	46803	HEPB_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
9/7/2024 11:17	46801	HEPB_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
9/7/2024 11:30	44801	EDAN_T2	23	34	11	0.21	0.22	0.01	-1.66	-1.63	0	0	0	0	0	0
9/7/2024 11:31	52004	LING_T2	2	2	0	4.6	4.6	0	0	0	0	0	0	0	0	0
9/7/2024 11:31	52002	LING_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
9/7/2024 11:33	52004	LING_T2	2	2	0	4.6	4.6	0	0	0	0	0	0	0	0	0
9/7/2024 11:33	52002	LING_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
9/7/2024 11:42	50105	HARR_T3	6	6	0	7.2	7.25	0.05	0	0	0	0	0	0	0	0
9/7/2024 11:42	50107	HARR_T3	1	1	0	6.9	6.7	-0.2	0	0	0	0	0	0	0	0
9/7/2024 11:42	50201	HARR_T3	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/7/2024 11:43	40101	HUNT_T2	4	3	-1	0.55	0.2	-0.35	-0.67	-0.68	0	0	0	0	0	0
9/7/2024 11:43	59101	WALK_T2	0	1	1	0	0	0	-0.43	-0.42	0	0	0	0	0	0
9/7/2024 11:45	59101	WALK_T2	0	1	1	0	0.5	0.5	-0.86	-0.84	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/7/2024 11:46	52001	LING_T1	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
9/7/2024 11:48	50106	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 11:48	50201	HARR_T3	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/7/2024 11:48	40101	HUNT_T2	3	1	-2	0.57	0	-0.57	-0.67	-0.68	0	0	0	0	0	0
9/7/2024 11:48	58401	MORO_T1	0	0	0	0	0	0	-1.19	-1.19	1	1	0	600	600	0
9/7/2024 11:48	50105	HARR_T3	6	6	0	7.28	7.3	0.02	0	0	0	0	0	0	0	0
9/7/2024 11:48	50107	HARR_T3	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
9/7/2024 11:51	58401	MORO_T1	0	0	0	0	0	0	-1.19	-1.19	1	1	0	600	600	0
9/7/2024 11:52	60502	NMAN_T2	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
9/7/2024 11:53	41902	REED_T1	0	0	0	0	0	0	0.91	0.86	0	0	0	0	0	0
9/7/2024 11:54	54202	PENN_T2	0	0	0	0	0	0	-1.18	-1.18	0	0	0	0	0	0
9/7/2024 11:55	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 12:00	46401	FLEM_T2	1	2	1	0.3	1.05	0.75	-0.36	-0.4	0	0	0	0	0	0
9/7/2024 12:00	46402	FLEM_T2	1	4	3	0.1	0.33	0.23	0	0	0	0	0	0	0	0
9/7/2024 12:04	46101	MACI_T2	0	0	0	0	0	0	-0.17	0.78	1	0	-1	1200	0	-1200
9/7/2024 12:05	58705	ROSE_T2	5	5	0	1.74	1.9	0.16	0	0	0	0	0	0	0	0
9/7/2024 12:05	58701	ROSE_T2	0	0	0	0	0	0	-0.16	-0.19	1	1	0	600	600	0
9/7/2024 12:08	58705	ROSE_T2	5	5	0	1.74	1.9	0.16	0	0	0	0	0	0	0	0
9/7/2024 12:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 12:08	45902	AUBU_T1	5	9	4	0.1	0.13	0.03	-0.85	-0.88	1	1	0	600	600	0
9/7/2024 12:08	58701	ROSE_T2	0	0	0	0	0	0	-0.19	-0.16	1	1	0	600	600	0
9/7/2024 12:09	58701	ROSE_T2	0	0	0	0	0	0	-0.19	-0.16	1	1	0	600	600	0
9/7/2024 12:09	58705	ROSE_T2	5	5	0	1.74	1.9	0.16	0	0	0	0	0	0	0	0
9/7/2024 12:11	40504	CRES_T1	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
9/7/2024 12:11	11903	ETEX_T1	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
9/7/2024 12:12	47001	HUGH_T2	3	3	0	8	8.63	0.63	-0.88	-0.86	0	0	0	0	0	0
9/7/2024 12:13	47001	HUGH_T2	3	3	0	8	8.63	0.63	-0.88	-0.86	0	0	0	0	0	0
9/7/2024 12:14	40502	CRES_T2	5	12	7	0.12	0.12	0	-0.35	-0.37	0	0	0	0	0	0
9/7/2024 12:14	40504	CRES_T1	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
9/7/2024 12:14	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 12:20	58202	NEWV_T1	8	8	0	0.25	0.41	0.16	0.01	0	0	0	0	0	0	0
9/7/2024 12:20	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 12:20	40502	CRES_T2	0	12	12	0	0.14	0.14	-0.35	-0.37	0	0	0	0	0	0
9/7/2024 12:20	58402	MORO_T1	0	0	0	0	0	0	0.25	0.25	1	1	0	900	900	0
9/7/2024 12:21	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 12:21	44905	SCOT_T1	2	5	3	0.15	0.34	0.19	0	0	0	0	0	0	0	0
9/7/2024 12:23	59202	THOM_T1	335	342	7	1.43	1.79	0.36	0	0	0	0	0	0	0	0
9/7/2024 12:24	61103	BERK_T5	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
9/7/2024 12:25	59202	THOM_T1	335	342	7	1.43	1.79	0.36	0	0	0	0	0	0	0	0
9/7/2024 12:26	61103	BERK_T5	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
9/7/2024 12:26	59202	THOM_T1	335	342	7	1.43	1.79	0.36	0	0	0	0	0	0	0	0
9/7/2024 12:26	16103	BING_T2	0	0	0	0	0	0	-1.14	-1.13	1	1	0	900	900	0
9/7/2024 12:30	53802	MBRG_T2	0	0	0	0	0	0	-0.46	-0.5	0	0	0	0	0	0
9/7/2024 12:32	53802	MBRG_T2	0	0	0	0	0	0	-0.46	-0.5	0	0	0	0	0	0
9/7/2024 12:34	42201	SHEN_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
9/7/2024 12:35	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 12:37	49804	UNIV_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/7/2024 12:37	22701	MINO_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	600	600	0
9/7/2024 12:37	49803	UNIV_T1	1	1	0	5.2	5.1	-0.1	-2.21	-2.19	0	0	0	0	0	0
9/7/2024 12:38	54206	PENN_T2	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
9/7/2024 12:39	54201	PENN_T1	7	6	-1	1	1.13	0.13	-0.98	-0.86	0	0	0	0	0	0
9/7/2024 12:39	66701	STRA_T1	0	0	0	0	0	0	-0.14	-0.18	2	2	0	1200	1200	0
9/7/2024 12:39	54203	PENN_T1	18	18	0	0.69	0.71	0.02	0	0	0	0	0	0	0	0
9/7/2024 12:39	40602	PIGR_T1	0	0	0	0	0	0	-1.31	-1.34	1	1	0	600	600	0
9/7/2024 12:41	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 12:41	21206	ECAR_T2	1	1	0	8.2	8.3	0.1	0.27	0.27	0	0	0	0	0	0
9/7/2024 12:43	40502	CRES_T2	12	12	0	0.12	0.13	0.01	-0.39	-0.39	0	0	0	0	0	0
9/7/2024 12:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 12:45	62104	ELAN_T1	0	0	0	0	0	0	0.21	0.21	1	1	0	1200	1200	0
9/7/2024 12:45	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 12:46	62104	ELAN_T1	0	0	0	0	0	0	0.21	0.21	1	1	0	1200	1200	0
9/7/2024 12:47	63501	HEID_TBK1-2	47	49	2	0.79	1.19	0.4	0.56	0.63	0	0	0	0	0	0
9/7/2024 12:48	43201	MVIL_T2	0	0	0	0	0	0	-1.28	-1.28	0	0	0	0	0	0
9/7/2024 12:50	42201	SHEN_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
9/7/2024 12:52	54206	PENN_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
9/7/2024 12:55	60301	TWVA_T2	0	0	0	0	0	0	-3.09	-3.13	2	2	0	1800	1800	0
9/7/2024 12:57	53601	DALM_T2	1	2	1	0.1	0.3	0.2	-0.05	-0.03	0	0	0	0	0	0
9/7/2024 13:00	46503	LOHA_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/7/2024 13:00	46506	LOHA_T1	3	3	0	4	4.6	0.6	0	0	0	0	0	0	0	0
9/7/2024 13:00	46501	LOHA_T1	0	0	0	0	0	0	0	0.02	1	1	0	1200	1200	0
9/7/2024 13:02	20603	GRWO_T2	0	0	0	0	0	0	-0.62	-0.63	1	1	0	900	900	0
9/7/2024 13:02	41002	LAUR_T2	1	4	3	2	0.73	-1.27	0.1	0.1	0	0	0	0	0	0
9/7/2024 13:02	41001	LAUR_T2	5	34	29	0.62	0.24	-0.38	0	0	0	0	0	0	0	0
9/7/2024 13:03	46506	LOHA_T1	3	3	0	4	4.6	0.6	0	0	0	0	0	0	0	0
9/7/2024 13:03	46503	LOHA_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/7/2024 13:03	46501	LOHA_T1	0	0	0	0	0	0	0	0.02	1	1	0	1200	1200	0
9/7/2024 13:03	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 13:04	46503	LOHA_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/7/2024 13:04	46501	LOHA_T1	0	0	0	0	0	0	0	0.02	1	1	0	1200	1200	0
9/7/2024 13:04	46506	LOHA_T1	3	3	0	4	4.6	0.6	0	0	0	0	0	0	0	0
9/7/2024 13:08	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 13:09	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 13:09	61102	BERK_T5	0	0	0	0	0	0	-1.18	-0.41	2	2	0	1200	1200	0
9/7/2024 13:12	21204	ECAR_T2	1	1	0	0	0	0	-0.64	-0.6	0	0	0	0	0	0
9/7/2024 13:12	21206	ECAR_T2	1	1	0	8.3	8.3	0	0	0	0	0	0	0	0	0
9/7/2024 13:14	46803	HEPB_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/7/2024 13:14	46801	HEPB_T2	2	2	0	0.25	0.45	0.2	0.68	0.71	0	0	0	0	0	0
9/7/2024 13:15	67805	WLAN_T1	0	0	0	0	0	0	-1.43	-1.47	0	0	0	0	0	0
9/7/2024 13:16	46801	HEPB_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
9/7/2024 13:16	46803	HEPB_T2	0	1	1	0	0.4	0.4	0.56	0.58	0	0	0	0	0	0
9/7/2024 13:16	52403	GRPA_T2	32	87	55	0.31	0.85	0.54	-0.81	-0.82	0	0	0	0	0	0
9/7/2024 13:19	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 13:23	45602	WOOL_T1	0	3	3	0	0.23	0.23	0.65	0.68	0	0	0	0	0	0
9/7/2024 13:26	48902	FOSP_T2	0	0	0	0	0	0	-0.14	-0.1	0	0	0	0	0	0
9/7/2024 13:26	45501	DERR_T2	0	2	2	0	0.2	0.2	-0.87	-0.88	2	2	0	1800	1800	0
9/7/2024 13:26	66702	STRA_T1	0	0	0	0	0	0	-0.53	-0.47	2	2	0	1500	1500	0
9/7/2024 13:26	16301	ALPA_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
9/7/2024 13:27	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/7/2024 13:27	45501	DERR_T2	0	2	2	0	0.2	0.2	-2.6	-2.64	6	6	0	5400	5400	0
9/7/2024 13:27	16301	ALPA_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
9/7/2024 13:29	45501	DERR_T2	0	2	2	0	0.2	0.2	-0.87	-0.88	2	2	0	1800	1800	0
9/7/2024 13:30	45501	DERR_T2	2	2	0	0.2	0.1	-0.1	-0.87	-0.88	2	2	0	1800	1800	0
9/7/2024 13:31	46503	LOHA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/7/2024 13:31	46102	MACI_T1	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
9/7/2024 13:31	46501	LOHA_T1	0	0	0	0	0	0	0.04	0.06	1	1	0	1200	1200	0
9/7/2024 13:31	46506	LOHA_T1	3	3	0	4.6	4.27	-0.33	0	0	0	0	0	0	0	0
9/7/2024 13:32	45501	DERR_T2	2	2	0	0.2	0.1	-0.1	-0.87	-0.88	2	2	0	1800	1800	0
9/7/2024 13:38	67602	WARW_T2	0	0	0	0	0	0	0.29	0.31	1	1	0	300	300	0
9/7/2024 13:39	67502	WEWI_T2	0	0	0	0	0	0	-1.37	-1.31	1	1	0	900	900	0
9/7/2024 13:39	67503	WEWI_T2	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
9/7/2024 13:40	57702	PAXT_T1	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
9/7/2024 13:41	10705	CATA_T2	0	0	0	0	0	0	-0.98	-1.03	0	0	0	0	0	0
9/7/2024 13:44	63501	HEID_TBK1-2	48	49	1	1.46	1.2	-0.26	0.51	0.52	0	0	0	0	0	0
9/7/2024 13:45	21705	SUBU_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
9/7/2024 13:45	21701	SUBU_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
9/7/2024 13:45	21702	SUBU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 13:45	21703	SUBU_T1	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
9/7/2024 13:46	40901	JESH_T1	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
9/7/2024 13:46	65401	MARI_T1	0	0	0	0	0	0	-0.12	-0.17	0	0	0	0	0	0
9/7/2024 13:46	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 13:47	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 13:47	67605	WARW_T1	13	20	7	0.38	0.51	0.13	0	0	0	0	0	0	0	0
9/7/2024 13:47	64503	LAVI_T1	0	0	0	0	0	0	-0.54	-0.67	1	1	0	1200	1200	0
9/7/2024 13:47	13101	NHAM_T1	0	0	0	0	0	0	4.53	4.55	4	4	0	4200	4200	0
9/7/2024 13:48	65401	MARI_T1	0	0	0	0	0	0	-0.12	-0.17	0	0	0	0	0	0
9/7/2024 13:49	51002	NHAR_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
9/7/2024 13:49	47802	MOCA_T2	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
9/7/2024 13:49	51004	NHAR_T1	1	1	0	6.1	6	-0.1	-0.04	-0.02	0	0	0	0	0	0
9/7/2024 13:50	65502	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 13:50	65503	MOJO_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
9/7/2024 13:52	42802	SELI_T1	1	1	0	0.2	0.3	0.1	-1.25	-1.19	1	1	0	900	900	0
9/7/2024 13:53	57205	ROSS_T1	0	0	0	0	0	0	-0.9	-0.87	1	1	0	900	900	0
9/7/2024 13:53	42802	SELI_T1	1	1	0	0.2	0.3	0.1	-1.25	-1.19	1	1	0	900	900	0
9/7/2024 13:53	43101	SMIL_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/7/2024 13:53	52403	GRPA_T2	87	76	-11	0.85	0.77	-0.08	-0.82	-0.15	0	0	0	0	0	0
9/7/2024 13:53	43105	SMIL_T2	0	0	0	0	0	0	-2.45	-2.45	0	0	0	0	0	0
9/7/2024 13:53	43103	SMIL_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/7/2024 13:54	42802	SELI_T1	1	1	0	0.2	0.3	0.1	-1.25	-1.19	1	1	0	900	900	0
9/7/2024 13:55	42802	SELI_T1	1	1	0	0.2	0.3	0.1	-1.25	-1.19	1	1	0	900	900	0
9/7/2024 13:56	22002	BOHE_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
9/7/2024 13:56	22003	BOHE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/7/2024 13:57	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 13:57	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 13:58	59101	WALK_T2	1	1	0	0.4	0	-0.4	-0.2	-0.2	0	0	0	0	0	0
9/7/2024 14:00	46101	MACI_T2	0	0	0	0	0	0	0.7	0.66	0	0	0	0	0	0
9/7/2024 14:02	42902	MIDD_T2	0	3	3	0	0.53	0.53	-0.65	-0.64	0	0	0	0	0	0
9/7/2024 14:02	42903	MIDD_T2	2	2	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
9/7/2024 14:02	42901	MIDD_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/7/2024 14:04	42903	MIDD_T2	2	2	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
9/7/2024 14:04	42902	MIDD_T2	0	3	3	0	0.53	0.53	-0.65	-0.64	0	0	0	0	0	0
9/7/2024 14:04	42901	MIDD_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/7/2024 14:04	44703	MUNC_T2	0	0	0	0	0	0	0.83	0.81	0	0	0	0	0	0
9/7/2024 14:05	46903	MNTG_T2	0	2	2	0	0.45	0.45	-0.05	-0.05	1	1	0	600	600	0
9/7/2024 14:05	51201	MTON_T1	0	1	1	0	0.5	0.5	0	-0.02	0	0	0	0	0	0
9/7/2024 14:06	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 14:07	43103	SMIL_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
9/7/2024 14:07	43101	SMIL_T2	1	2	1	0.8	0.35	-0.45	-0.66	-0.65	0	0	0	0	0	0
9/7/2024 14:08	60803	BUCK_T1	13	15	2	0.37	0.45	0.08	-1.13	-1.16	1	1	0	600	600	0
9/7/2024 14:08	50105	HARR_T3	6	6	0	7.08	6.9	-0.18	0	0	0	0	0	0	0	0
9/7/2024 14:08	50107	HARR_T3	1	1	0	6.8	6	-0.8	0	0	0	0	0	0	0	0
9/7/2024 14:08	50201	HARR_T3	1	1	0	1.1	1.2	0.1	-1.07	-1.07	1	1	0	1200	1200	0
9/7/2024 14:08	60801	BUCK_T1	9	32	23	0.11	0.18	0.07	0	0	0	0	0	0	0	0
9/7/2024 14:09	60801	BUCK_T1	9	32	23	0.11	0.18	0.07	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/7/2024 14:09	60803	BUCK_T1	13	15	2	0.37	0.45	0.08	-1.13	-1.16	1	1	0	600	600	0
9/7/2024 14:13	40502	CRES_T2	13	24	11	0.19	0.29	0.1	-0.42	-0.38	0	0	0	0	0	0
9/7/2024 14:13	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 14:14	59102	WALK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/7/2024 14:14	59101	WALK_T2	1	0	-1	0.8	0	-0.8	-0.2	-0.24	0	0	0	0	0	0
9/7/2024 14:15	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 14:15	40502	CRES_T2	24	13	-11	0.29	0.18	-0.11	-0.84	-0.76	0	0	0	0	0	0
9/7/2024 14:16	42901	MIDD_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/7/2024 14:16	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 14:16	40502	CRES_T2	24	13	-11	0.29	0.18	-0.11	-0.42	-0.38	0	0	0	0	0	0
9/7/2024 14:16	42902	MIDD_T2	3	1	-2	0.53	0.2	-0.33	-0.64	-0.58	0	0	0	0	0	0
9/7/2024 14:16	42903	MIDD_T2	2	2	0	1.8	1.65	-0.15	0.23	0.26	0	0	0	0	0	0
9/7/2024 14:17	52403	GRPA_T2	65	35	-30	0.8	0.39	-0.41	-0.15	-0.14	0	0	0	0	0	0
9/7/2024 14:17	51202	MTON_T2	0	2	2	0	0.35	0.35	-1.03	-1.02	1	1	0	1200	1200	0
9/7/2024 14:20	42902	MIDD_T2	3	1	-2	0.53	0.2	-0.33	-0.64	-0.58	0	0	0	0	0	0
9/7/2024 14:20	51202	MTON_T2	0	2	2	0	0.35	0.35	-1.03	-1.02	1	1	0	1200	1200	0
9/7/2024 14:20	42903	MIDD_T2	2	2	0	1.8	1.65	-0.15	0	0	0	0	0	0	0	0
9/7/2024 14:20	42901	MIDD_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/7/2024 14:22	42802	SELI_T1	1	1	0	0.3	0.1	-0.2	-1.18	-1.17	1	1	0	900	900	0
9/7/2024 14:22	42901	MIDD_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/7/2024 14:22	42902	MIDD_T2	3	1	-2	0.53	0.2	-0.33	0	0	0	0	0	0	0	0
9/7/2024 14:22	42903	MIDD_T2	2	2	0	1.8	1.65	-0.15	0	0	0	0	0	0	0	0
9/7/2024 14:25	42802	SELI_T1	1	1	0	0.3	0.1	-0.2	-2.36	-2.33	2	2	0	1800	1800	0
9/7/2024 14:28	16004	DORN_T1	0	0	0	0	0	0	-0.93	-0.96	1	1	0	1200	1200	0
9/7/2024 14:29	16004	DORN_T1	0	0	0	0	0	0	-0.93	-0.96	1	1	0	1200	1200	0
9/7/2024 14:33	65205	PRIN_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
9/7/2024 14:34	56501	ROCK_T2	2	3	1	0.55	0.33	-0.22	-1.16	-1.11	0	0	0	0	0	0
9/7/2024 14:36	52101	MEIS_T1	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/7/2024 14:36	51202	MTON_T2	1	2	1	0.1	0.35	0.25	-1.02	-0.99	1	1	0	1200	1200	0
9/7/2024 14:36	52102	MEIS_T1	3	3	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/7/2024 14:36	56501	ROCK_T2	2	3	1	0.55	0.33	-0.22	-1.16	-1.11	0	0	0	0	0	0
9/7/2024 14:37	43103	SMIL_T2	3	1	-2	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/7/2024 14:37	56501	ROCK_T2	2	3	1	0.55	0.33	-0.22	-1.11	-1.1	0	0	0	0	0	0
9/7/2024 14:37	42801	SELI_T1	0	0	0	0	0	0	-1.06	-1.03	1	1	0	1200	1200	0
9/7/2024 14:37	43101	SMIL_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
9/7/2024 14:37	43106	SMIL_T2	0	0	0	0	0	0	-1.82	-1.84	2	2	0	2400	2400	0
9/7/2024 14:37	42802	SELI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/7/2024 14:38	54001	SDLE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/7/2024 14:38	56501	ROCK_T2	2	3	1	0.55	0.33	-0.22	-1.11	-1.1	0	0	0	0	0	0
9/7/2024 14:39	59202	THOM_T1	353	380	27	1.61	1.71	0.1	0	0	0	0	0	0	0	0
9/7/2024 14:39	54001	SDLE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/7/2024 14:40	58402	MORO_T1	0	0	0	0	0	0	0.23	0.23	1	1	0	900	900	0
9/7/2024 14:40	59202	THOM_T1	353	380	27	1.61	1.71	0.1	0	0	0	0	0	0	0	0
9/7/2024 14:42	59202	THOM_T1	353	380	27	1.61	1.71	0.1	0	0	0	0	0	0	0	0
9/7/2024 14:42	46203	DANV_T2	1	4	3	8.9	2.53	-6.37	-1.97	-2	0	0	0	0	0	0
9/7/2024 14:42	56501	ROCK_T2	2	3	1	0.55	0.33	-0.22	-1.11	-1.1	0	0	0	0	0	0
9/7/2024 14:43	46203	DANV_T2	1	4	3	8.9	2.53	-6.37	-1.97	-2	0	0	0	0	0	0
9/7/2024 14:43	59202	THOM_T1	353	380	27	1.61	1.71	0.1	0	0	0	0	0	0	0	0
9/7/2024 14:43	42302	MOWR_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
9/7/2024 14:48	53802	MBRG_T2	0	0	0	0	0	0	-0.43	-0.3	0	0	0	0	0	0
9/7/2024 14:48	53801	MBRG_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/7/2024 14:49	56503	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/7/2024 14:49	56504	ROCK_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
9/7/2024 14:49	56501	ROCK_T2	2	7	5	0.4	0.57	0.17	0	0	0	0	0	0	0	0
9/7/2024 14:51	43103	SMIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/7/2024 14:51	43101	SMIL_T2	0	0	0	0	0	0	-0.65	-0.62	0	0	0	0	0	0
9/7/2024 14:53	59201	THOM_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
9/7/2024 14:53	59202	THOM_T1	353	546	193	1.61	1.54	-0.07	0	0	0	0	0	0	0	0
9/7/2024 14:54	54001	SDLE_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/7/2024 14:55	59202	THOM_T1	353	546	193	1.61	1.54	-0.07	0	0	0	0	0	0	0	0
9/7/2024 14:55	42802	SELI_T1	0	0	0	0	0	0	-1.18	-1.11	1	1	0	900	900	0
9/7/2024 14:55	59201	THOM_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
9/7/2024 14:57	59202	THOM_T1	353	546	193	1.61	1.54	-0.07	0	0	0	0	0	0	0	0
9/7/2024 14:57	59201	THOM_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
9/7/2024 14:58	67605	WARW_T1	9	16	7	0.31	0.55	0.24	0	0	0	0	0	0	0	0
9/7/2024 14:58	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 14:58	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 14:58	66302	MCGO_T2	0	0	0	0	0	0	-0.9	-0.87	0	0	0	0	0	0
9/7/2024 14:59	63305	GREE_T1	15	3	-12	0.26	0.15	-0.11	-2.13	-1.03	1	0	-1	900	0	-900
9/7/2024 15:00	40101	HUNT_T2	0	1	1	0	0.4	0.4	-0.69	-0.66	0	0	0	0	0	0
9/7/2024 15:01	52403	GRPA_T2	25	26	1	0.35	0.37	0.02	-0.11	-0.07	0	0	0	0	0	0
9/7/2024 15:01	63305	GREE_T1	3	0	-3	0.15	0	-0.15	-2.13	-1.03	1	0	-1	900	0	-900
9/7/2024 15:02	64902	MILL_T2	0	0	0	0	0	0	-1.15	-1.16	1	1	0	900	900	0
9/7/2024 15:04	43201	MVIL_T2	1	1	0	0.2	0.8	0.6	-1.28	-1.26	0	0	0	0	0	0
9/7/2024 15:05	50105	HARR_T3	6	6	0	7.13	7	-0.13	0	0	0	0	0	0	0	0
9/7/2024 15:05	50201	HARR_T3	1	1	0	1.1	1.2	0.1	-1.1	-1.03	1	1	0	1200	1200	0
9/7/2024 15:05	50106	HARR_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 15:05	50107	HARR_T3	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
9/7/2024 15:06	56503	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/7/2024 15:06	50107	HARR_T3	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
9/7/2024 15:06	50201	HARR_T3	1	1	0	1.1	1.2	0.1	-1.1	-1.03	1	1	0	1200	1200	0
9/7/2024 15:06	50105	HARR_T3	6	6	0	7.13	7	-0.13	0	0	0	0	0	0	0	0
9/7/2024 15:06	56501	ROCK_T2	3	8	5	0.33	0.57	0.24	-2.2	-2.17	0	0	0	0	0	0
9/7/2024 15:06	50106	HARR_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 15:07	56503	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/7/2024 15:07	16503	STRO_T2	0	0	0	0	0	0	-0.55	-0.58	1	1	0	1200	1200	0
9/7/2024 15:07	56501	ROCK_T2	3	8	5	0.33	0.57	0.24	-1.08	-1.08	0	0	0	0	0	0
9/7/2024 15:08	46301	ROHR_T1	1	3	2	5.6	2.13	-3.47	-0.73	-0.73	0	0	0	0	0	0
9/7/2024 15:08	41902	REED_T1	0	0	0	0	0	0	0.92	1	0	0	0	0	0	0
9/7/2024 15:08	46302	ROHR_T1	4	5	1	0.53	0.74	0.21	0	0	0	0	0	0	0	0
9/7/2024 15:08	52502	PROG_T2	0	1	1	0	0.2	0.2	-0.55	-0.56	1	1	0	900	900	0
9/7/2024 15:09	56501	ROCK_T2	3	8	5	0.33	0.57	0.24	-1.08	-1.08	0	0	0	0	0	0
9/7/2024 15:09	56503	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/7/2024 15:09	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 15:09	49803	UNIV_T1	1	3	2	5.1	2.03	-3.07	-2.16	-2.1	0	0	0	0	0	0
9/7/2024 15:09	63804	HEMP_T1	1	1	0	6.3	6.2	-0.1	0.95	0.97	0	0	0	0	0	0
9/7/2024 15:09	49804	UNIV_T1	2	4	2	0.15	0.3	0.15	0	0	0	0	0	0	0	0
9/7/2024 15:10	56504	ROCK_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
9/7/2024 15:10	56503	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/7/2024 15:10	55105	WERT_T1	0	0	0	0	0	0	-0.46	-0.42	1	1	0	900	900	0
9/7/2024 15:10	56501	ROCK_T2	3	8	5	0.33	0.57	0.24	0	0	0	0	0	0	0	0
9/7/2024 15:11	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/7/2024 15:11	62103	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/7/2024 15:11	62106	ELAN_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 15:12	67503	WEWI_T2	1	1	0	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
9/7/2024 15:12	41501	FAIR_T2	0	0	0	0	0	0	-1.18	-1.18	1	1	0	600	600	0
9/7/2024 15:12	67502	WEWI_T2	0	0	0	0	0	0	-1.4	-1.4	1	1	0	900	900	0
9/7/2024 15:14	63804	HEMP_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
9/7/2024 15:14	44802	EDAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/7/2024 15:14	63803	HEMP_T1	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
9/7/2024 15:14	44801	EDAN_T2	44	100	56	0.35	0.44	0.09	-1.6	-1.59	0	0	0	0	0	0
9/7/2024 15:14	46203	DANV_T2	3	9	6	3.3	1.32	-1.98	-1.99	-1.88	0	0	0	0	0	0
9/7/2024 15:15	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/7/2024 15:15	46203	DANV_T2	9	4	-5	1.32	2.45	1.13	-1.99	-1.88	0	0	0	0	0	0
9/7/2024 15:15	62106	ELAN_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 15:16	44801	EDAN_T2	98	59	-39	0.44	0.41	-0.03	-1.6	-1.59	0	0	0	0	0	0
9/7/2024 15:16	40101	HUNT_T2	1	0	-1	0.4	0	-0.4	-0.66	-0.65	0	0	0	0	0	0
9/7/2024 15:16	44802	EDAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/7/2024 15:17	52403	GRPA_T2	26	2	-24	0.37	1.05	0.68	-0.07	0.04	0	0	0	0	0	0
9/7/2024 15:18	66001	RHEE_T2	0	0	0	0	0	0	-1.86	-1.91	2	2	0	2100	2100	0
9/7/2024 15:18	52001	LING_T1	1	0	-1	0.1	0	-0.1	-0.92	-0.92	0	0	0	0	0	0
9/7/2024 15:19	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 15:19	52503	PROG_T2	0	0	0	0	0	0	-0.62	-0.58	1	1	0	900	900	0
9/7/2024 15:19	42902	MIDD_T2	1	0	-1	0.2	0	-0.2	-1.87	-1.84	0	0	0	0	0	0
9/7/2024 15:19	52502	PROG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/7/2024 15:19	42903	MIDD_T2	2	2	0	1.35	1.2	-0.15	0	0	0	0	0	0	0	0
9/7/2024 15:19	42901	MIDD_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/7/2024 15:20	52503	PROG_T2	0	0	0	0	0	0	-0.62	-0.58	1	1	0	900	900	0
9/7/2024 15:20	52502	PROG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/7/2024 15:22	46301	ROHR_T1	3	2	-1	2.1	3.15	1.05	0	0	0	0	0	0	0	0
9/7/2024 15:22	46302	ROHR_T1	5	4	-1	0.72	0.55	-0.17	0.17	0.17	0	0	0	0	0	0
9/7/2024 15:22	55105	WERT_T1	0	0	0	0	0	0	-0.42	-0.38	1	1	0	900	900	0
9/7/2024 15:23	28102	TWLA_T2	19	22	3	0.49	0.49	0	0.23	0.25	0	0	0	0	0	0
9/7/2024 15:23	58703	ROSE_T2	0	0	0	0	0	0	-1.41	-1.4	0	0	0	0	0	0
9/7/2024 15:23	49804	UNIV_T1	3	2	-1	0.3	0.2	-0.1	-1.28	-1.31	0	0	0	0	0	0
9/7/2024 15:23	58705	ROSE_T2	5	5	0	2.14	1.96	-0.18	0	0	0	0	0	0	0	0
9/7/2024 15:23	58706	ROSE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 15:23	41902	REED_T1	0	0	0	0	0	0	1	0.96	0	0	0	0	0	0
9/7/2024 15:23	49803	UNIV_T1	3	2	-1	2.03	2.75	0.72	0	0	0	0	0	0	0	0
9/7/2024 15:24	43102	SMIL_T2	0	0	0	0	0	0	-0.76	-0.75	1	1	0	600	600	0
9/7/2024 15:24	58706	ROSE_T2	0	1	1	0	0	0	-0.12	-0.07	1	1	0	600	600	0
9/7/2024 15:24	46302	ROHR_T1	5	4	-1	0.72	0.55	-0.17	0.17	0.17	0	0	0	0	0	0
9/7/2024 15:24	58705	ROSE_T2	5	5	0	2.14	1.96	-0.18	0	0	0	0	0	0	0	0
9/7/2024 15:24	46301	ROHR_T1	3	2	-1	2.1	3.15	1.05	0	0	0	0	0	0	0	0
9/7/2024 15:24	43103	SMIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/7/2024 15:25	45501	DERR_T2	0	0	0	0	0	0	-0.53	-0.6	2	2	0	1800	1800	0
9/7/2024 15:27	40201	HEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 15:27	49803	UNIV_T1	3	2	-1	2.03	2.75	0.72	-2.1	-2.11	0	0	0	0	0	0
9/7/2024 15:27	49804	UNIV_T1	3	2	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/7/2024 15:28	61703	ELIZ_T1	0	0	0	0	0	0	-5.08	-4.62	4	4	0	4200	4200	0
9/7/2024 15:28	49804	UNIV_T1	3	2	-1	0.3	0.2	-0.1	-0.64	-0.66	0	0	0	0	0	0
9/7/2024 15:28	49803	UNIV_T1	3	2	-1	2.03	2.75	0.72	0	0	0	0	0	0	0	0
9/7/2024 15:28	61701	ELIZ_T1	1	2	1	3.2	1.65	-1.55	0	0	0	0	0	0	0	0
9/7/2024 15:29	64201	KINZ_T1	6	1	-5	0.4	1	0.6	-0.2	-0.21	1	1	0	900	900	0
9/7/2024 15:29	64204	KINZ_T1	6	1	-5	0.28	0.8	0.52	0	0	0	0	0	0	0	0
9/7/2024 15:29	61703	ELIZ_T1	0	0	0	0	0	0	-2.54	-2.31	2	2	0	2100	2100	0
9/7/2024 15:29	64202	KINZ_T1	3	3	0	0.87	0.67	-0.2	0	0	0	0	0	0	0	0
9/7/2024 15:29	61701	ELIZ_T1	1	2	1	3.2	1.65	-1.55	0	0	0	0	0	0	0	0
9/7/2024 15:30	64204	KINZ_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
9/7/2024 15:30	64203	KINZ_T1	0	0	0	0	0	0	-0.26	-0.29	1	1	0	600	600	0
9/7/2024 15:30	45501	DERR_T2	0	0	0	0	0	0	-0.53	-0.6	2	2	0	1800	1800	0
9/7/2024 15:30	64202	KINZ_T1	3	3	0	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
9/7/2024 15:30	64201	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/7/2024 15:31	61701	ELIZ_T1	1	2	1	3.1	1.75	-1.35	0	0	0	0	0	0	0	0
9/7/2024 15:31	11301	EMMA_T1	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
9/7/2024 15:31	59102	WALK_T2	1	0	-1	0.1	0	-0.1	0.46	0.42	0	0	0	0	0	0
9/7/2024 15:31	61703	ELIZ_T1	0	0	0	0	0	0	-2.54	-2.31	2	2	0	2100	2100	0
9/7/2024 15:32	62607	ENGL_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	300	300	0
9/7/2024 15:34	25402	LAHA_T2	0	0	0	0	0	0	-0.77	-0.8	0	0	0	0	0	0
9/7/2024 15:34	63602	LETO_T1	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
9/7/2024 15:35	63602	LETO_T1	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
9/7/2024 15:36	13803	SALI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 15:36	57401	SPAN_T1	2	2	0	0.35	0.15	-0.2	-0.52	-0.41	1	1	0	600	600	0
9/7/2024 15:37	55101	WERT_T1	0	0	0	0	0	0	-0.87	-1.01	2	2	0	1500	1500	0
9/7/2024 15:37	57401	SPAN_T1	2	2	0	0.35	0.15	-0.2	-0.81	-0.48	2	2	0	1200	1200	0
9/7/2024 15:37	13803	SALI_T1	0	0	0	0	0	0	-1.07	-1.07	2	2	0	2400	2400	0
9/7/2024 15:37	65207	PRIN_T4	1	1	0	1.1	1.1	0	0	0	1	1	0	1200	1200	0
9/7/2024 15:37	66901	SHIL_T2	1	1	0	0.3	0.2	-0.1	-1.75	-1.73	1	1	0	1200	1200	0
9/7/2024 15:37	67703	WERN_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	900	900	0
9/7/2024 15:37	65206	PRIN_T4	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
9/7/2024 15:38	65804	RTWN_T1	0	0	0	0	0	0	0.18	0.16	1	1	0	600	600	0
9/7/2024 15:38	55101	WERT_T1	0	0	0	0	0	0	-1.74	-2.02	4	4	0	3000	3000	0
9/7/2024 15:38	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 15:38	57401	SPAN_T1	2	2	0	0.35	0.15	-0.2	-0.41	-0.24	1	1	0	600	600	0
9/7/2024 15:39	57401	SPAN_T1	2	2	0	0.35	0.15	-0.2	-0.41	-0.24	1	1	0	600	600	0
9/7/2024 15:40	55101	WERT_T1	0	0	0	0	0	0	-0.87	-1.01	2	2	0	1500	1500	0
9/7/2024 15:40	46002	BERW_T2	0	0	0	0	0	0	-1.33	-1.31	1	1	0	900	900	0
9/7/2024 15:40	57401	SPAN_T1	2	2	0	0.35	0.15	-0.2	-0.41	-0.24	1	1	0	600	600	0
9/7/2024 15:41	57401	SPAN_T1	2	2	0	0.35	0.15	-0.2	-0.41	-0.24	1	1	0	600	600	0
9/7/2024 15:41	22002	BOHE_T1	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
9/7/2024 15:41	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 15:41	22003	BOHE_T1	89	205	116	0.16	0.23	0.07	0	0	0	0	0	0	0	0
9/7/2024 15:42	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 15:43	47202	FAXO_T2	0	0	0	0	0	0	-2.16	-2.16	0	0	0	0	0	0
9/7/2024 15:43	48902	FOSP_T2	0	0	0	0	0	0	-0.23	-0.19	0	0	0	0	0	0
9/7/2024 15:43	48901	FOSP_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/7/2024 15:43	46004	BERW_T2	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
9/7/2024 15:44	13803	SALI_T1	0	0	0	0	0	0	-1.07	-1.07	2	2	0	2400	2400	0
9/7/2024 15:48	46501	LOHA_T1	1	0	-1	2	0	-2	-0.05	-0.08	1	1	0	1200	1200	0
9/7/2024 15:48	44201	POIN_T1	113	166	53	0.25	0.38	0.13	-2.26	-2.28	2	2	0	2100	2100	0
9/7/2024 15:48	13503	MCMI_T2	176	111	-65	0.29	0.27	-0.02	-1.79	-1.79	0	0	0	0	0	0
9/7/2024 15:48	46506	LOHA_T1	3	4	1	4.47	3.58	-0.89	0	0	0	0	0	0	0	0
9/7/2024 15:48	65603	OVIL_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
9/7/2024 15:49	44201	POIN_T1	113	166	53	0.25	0.38	0.13	-2.26	-2.28	2	2	0	2100	2100	0
9/7/2024 15:49	13503	MCMI_T2	176	111	-65	0.29	0.27	-0.02	-0.89	-0.89	0	0	0	0	0	0
9/7/2024 15:51	56501	ROCK_T2	4	3	-1	0.38	0.43	0.05	-1.06	-1.05	0	0	0	0	0	0
9/7/2024 15:51	56503	ROCK_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/7/2024 15:53	44201	POIN_T1	113	166	53	0.25	0.38	0.13	-2.28	-2.28	2	2	0	2100	2100	0
9/7/2024 15:53	55101	WERT_T1	0	0	0	0	0	0	-1.01	-0.94	2	2	0	1500	1500	0
9/7/2024 15:54	20102	AVOC_T1	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
9/7/2024 15:54	41902	REED_T1	0	0	0	0	0	0	0.95	1	0	0	0	0	0	0
9/7/2024 15:55	41902	REED_T1	0	0	0	0	0	0	0.95	1	0	0	0	0	0	0
9/7/2024 15:56	11202	ELHE_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
9/7/2024 15:57	22003	BOHE_T1	205	14	-191	0.23	0.14	-0.09	0	0	0	0	0	0	0	0
9/7/2024 15:57	22002	BOHE_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
9/7/2024 15:59	62607	ENGL_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	300	300	0
9/7/2024 16:04	43202	MVIL_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
9/7/2024 16:05	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 16:05	44202	POIN_T2	0	0	0	0	0	0	-0.9	-0.91	1	1	0	1200	1200	0
9/7/2024 16:05	43202	MVIL_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
9/7/2024 16:05	66505	SMAN_T2	0	0	0	0	0	0	0.38	0.34	1	1	0	900	900	0
9/7/2024 16:06	42202	SHEN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/7/2024 16:06	59003	MIFF_T1	1	1	0	0.8	1.1	0.3	-0.65	-0.65	0	0	0	0	0	0
9/7/2024 16:06	42201	SHEN_T2	0	1	1	0	0.8	0.8	0.5	0.5	0	0	0	0	0	0
9/7/2024 16:06	42204	SHEN_T2	0	0	0	0	0	0	-0.64	-0.67	1	1	0	1200	1200	0
9/7/2024 16:06	59001	MIFF_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
9/7/2024 16:06	59002	MIFF_T1	5	5	0	0.54	0.78	0.24	0	0	0	0	0	0	0	0
9/7/2024 16:07	42903	MIDD_T2	2	2	0	1.15	1.15	0	0.05	0.1	0	0	0	0	0	0
9/7/2024 16:08	14603	SWHI_T1	0	0	0	0	0	0	-1.46	-1.45	2	2	0	1200	1200	0
9/7/2024 16:08	42202	SHEN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/7/2024 16:08	42201	SHEN_T2	0	1	1	0	0.8	0.8	0.5	0.5	0	0	0	0	0	0
9/7/2024 16:08	13807	SALI_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
9/7/2024 16:10	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/7/2024 16:11	67605	WARW_T1	13	19	6	0.53	0.54	0.01	-1.05	-1.04	0	0	0	0	0	0
9/7/2024 16:12	22003	BOHE_T1	0	14	14	0	0.14	0.14	0	0	0	0	0	0	0	0
9/7/2024 16:12	67605	WARW_T1	13	19	6	0.53	0.54	0.01	-1.05	-1.04	0	0	0	0	0	0
9/7/2024 16:12	22002	BOHE_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
9/7/2024 16:13	48901	FOSP_T2	1	0	-1	0.2	0	-0.2	-0.37	-0.39	1	1	0	600	600	0
9/7/2024 16:13	54501	ENOL_T2	0	0	0	0	0	0	-0.35	-0.32	1	1	0	600	600	0
9/7/2024 16:13	48902	FOSP_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/7/2024 16:13	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.17	0	0	0	0	0	0
9/7/2024 16:14	54501	ENOL_T2	0	0	0	0	0	0	-0.35	-0.32	1	1	0	600	600	0
9/7/2024 16:15	46004	BERW_T2	1	0	-1	0.2	0	-0.2	-0.52	-0.42	0	0	0	0	0	0
9/7/2024 16:17	48901	FOSP_T2	0	0	0	0	0	0	-0.37	-0.39	1	1	0	600	600	0
9/7/2024 16:17	28702	HAML_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/7/2024 16:17	28703	HAML_T2	3	2	-1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
9/7/2024 16:17	48902	FOSP_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/7/2024 16:17	28704	HAML_T2	1	1	0	1	0.9	-0.1	0.03	0	0	0	0	0	0	0
9/7/2024 16:17	40101	HUNT_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
9/7/2024 16:19	55002	NEWP_T1	6	5	-1	0.65	0.52	-0.13	-0.17	-0.17	0	0	0	0	0	0
9/7/2024 16:20	65904	SAKR_T2	0	0	0	0	0	0	-2.16	-2.16	3	3	0	1500	1500	0
9/7/2024 16:20	65901	SAKR_T2	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
9/7/2024 16:22	55002	NEWP_T1	6	5	-1	0.65	0.52	-0.13	0	0	0	0	0	0	0	0
9/7/2024 16:22	55001	NEWP_T1	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
9/7/2024 16:24	40902	JESH_T1	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
9/7/2024 16:24	45902	AUBU_T1	1	1	0	0.5	0.8	0.3	-0.36	-0.34	0	0	0	0	0	0
9/7/2024 16:24	64101	REFR_T1	1	1	0	0.3	0.9	0.6	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 16:24	40901	JESH_T1	1	1	0	1.1	1.6	0.5	0.44	0.39	0	0	0	0	0	0
9/7/2024 16:26	48902	FOSP_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/7/2024 16:26	48901	FOSP_T2	0	0	0	0	0	0	-0.39	-0.39	1	1	0	600	600	0
9/7/2024 16:26	45902	AUBU_T1	1	1	0	0.5	0.8	0.3	-0.36	-0.34	0	0	0	0	0	0
9/7/2024 16:27	45901	AUBU_T1	0	0	0	0	0	0	1.05	1.05	0	0	0	0	0	0
9/7/2024 16:27	45902	AUBU_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/7/2024 16:29	20603	GRWO_T2	49	38	-11	0.16	0.14	-0.02	-0.62	-0.58	1	1	0	900	900	0
9/7/2024 16:30	63801	HEMP_T1	1	1	0	0.1	0.3	0.2	0.59	1.1	1	1	0	900	900	0
9/7/2024 16:30	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
9/7/2024 16:31	46504	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/7/2024 16:31	46506	LOHA_T1	4	3	-1	3.58	4.47	0.89	-0.07	-0.08	0	0	0	0	0	0
9/7/2024 16:32	20603	GRWO_T2	38	11	-27	0.14	0.1	-0.04	-0.62	-0.58	1	1	0	900	900	0
9/7/2024 16:36	42201	SHEN_T2	1	2	1	0.8	0.1	-0.7	0.51	0.51	0	0	0	0	0	0
9/7/2024 16:36	48301	ORWI_T1	2	2	0	4.9	4.8	-0.1	0.11	0.15	0	0	0	0	0	0
9/7/2024 16:36	21501	CEAV_T2	0	0	0	0	0	0	1.44	1.46	0	0	0	0	0	0
9/7/2024 16:37	65802	RTWN_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
9/7/2024 16:37	54201	PENN_T1	6	6	0	0.83	0.88	0.05	0	0	0	0	0	0	0	0
9/7/2024 16:37	54203	PENN_T1	18	18	0	0.53	0.46	-0.07	0.23	0.23	0	0	0	0	0	0
9/7/2024 16:38	64101	REFR_T1	1	1	0	0.9	0.9	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 16:38	55101	WERT_T1	0	0	0	0	0	0	-1.87	-1.96	4	4	0	3000	3000	0
9/7/2024 16:38	20403	ASHF_T2	0	0	0	0	0	0	0.23	0.27	0	0	0	0	0	0
9/7/2024 16:40	67603	WARW_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
9/7/2024 16:40	67605	WARW_T1	14	14	0	0.54	0.49	-0.05	-2.06	-2.07	0	0	0	0	0	0
9/7/2024 16:41	20403	ASHF_T2	0	0	0	0	0	0	0.23	0.27	0	0	0	0	0	0
9/7/2024 16:42	20403	ASHF_T2	0	0	0	0	0	0	0.23	0.27	0	0	0	0	0	0
9/7/2024 16:42	24703	FLND_T2	0	0	0	0	0	0	-0.83	-0.84	1	1	0	1200	1200	0
9/7/2024 16:44	61301	EARL_T1	0	0	0	0	0	0	-1.12	-1.14	2	2	0	1800	1800	0
9/7/2024 16:47	21705	SUBU_T1	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
9/7/2024 16:47	21701	SUBU_T1	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
9/7/2024 16:47	21704	SUBU_T1	0	0	0	0	0	0	-2.49	-2.44	2	2	0	2400	2400	0
9/7/2024 16:54	20403	ASHF_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
9/7/2024 16:54	67901	WNHO_T2	68	56	-12	0.42	0.36	-0.06	-0.39	-0.35	1	1	0	900	900	0
9/7/2024 16:59	60102	COCA_T1	0	0	0	0	0	0	0.1	0.18	2	2	0	1200	1200	0
9/7/2024 17:01	23202	HIRU_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
9/7/2024 17:01	23201	HIRU_T2	8	19	11	0.13	0.15	0.02	0	0	0	0	0	0	0	0
9/7/2024 17:02	64902	MILL_T2	0	0	0	0	0	0	-1.18	-1.15	1	1	0	900	900	0
9/7/2024 17:08	14403	SSLA_T1	0	0	0	0	0	0	0.69	0.7	0	0	0	0	0	0
9/7/2024 17:10	24602	VARD_T2	26	30	4	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
9/7/2024 17:10	24603	VARD_T2	23	27	4	0.21	0.22	0.01	0	0	0	0	0	0	0	0
9/7/2024 17:11	14403	SSLA_T1	0	0	0	0	0	0	0.69	0.7	0	0	0	0	0	0
9/7/2024 17:18	63401	HONY_T1	0	0	0	0	0	0	-0.31	-0.33	1	1	0	600	600	0
9/7/2024 17:24	59202	THOM_T1	492	693	201	1.59	2.07	0.48	0	0	0	0	0	0	0	0
9/7/2024 17:24	59201	THOM_T1	6	16	10	0.17	0.24	0.07	0	0	0	0	0	0	0	0
9/7/2024 17:25	14502	SCHO_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
9/7/2024 17:25	24603	VARD_T2	26	14	-12	0.23	0.23	0	0	0	0	0	0	0	0	0
9/7/2024 17:25	24602	VARD_T2	30	22	-8	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
9/7/2024 17:26	59201	THOM_T1	6	16	10	0.17	0.24	0.07	0	0	0	0	0	0	0	0
9/7/2024 17:26	59202	THOM_T1	492	693	201	1.59	2.07	0.48	0	0	0	0	0	0	0	0
9/7/2024 17:26	22002	BOHE_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
9/7/2024 17:28	11301	EMMA_T1	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
9/7/2024 17:28	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
9/7/2024 17:28	46401	FLEM_T2	1	181	180	0.8	0.31	-0.49	-0.31	-0.35	0	0	0	0	0	0
9/7/2024 17:28	46402	FLEM_T2	0	189	189	0	0.24	0.24	0	0	0	0	0	0	0	0
9/7/2024 17:31	12605	MACA_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
9/7/2024 17:35	51201	MTON_T1	0	0	0	0	0	0	0.2	0.15	0	0	0	0	0	0
9/7/2024 17:36	42601	TUSC_T1	0	0	0	0	0	0	-0.38	-0.52	2	2	0	1800	1800	0
9/7/2024 17:39	59202	THOM_T1	626	828	202	1.96	2.08	0.12	0	0	0	0	0	0	0	0
9/7/2024 17:39	44301	BEAV_T2	0	1	1	0	0	0	-0.27	-0.29	1	1	0	600	600	0
9/7/2024 17:39	59201	THOM_T1	7	17	10	0.17	0.24	0.07	0	0	0	0	0	0	0	0
9/7/2024 17:40	42601	TUSC_T1	0	0	0	0	0	0	-0.38	-0.52	2	2	0	1800	1800	0
9/7/2024 17:41	59202	THOM_T1	626	828	202	1.96	2.08	0.12	0	0	0	0	0	0	0	0
9/7/2024 17:41	59201	THOM_T1	7	17	10	0.17	0.24	0.07	0	0	0	0	0	0	0	0
9/7/2024 17:41	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 17:42	67801	WLAN_T1	0	0	0	0	0	0	-0.33	-0.22	0	0	0	0	0	0
9/7/2024 17:42	44301	BEAV_T2	0	1	1	0	0	0	-0.27	-0.29	1	1	0	600	600	0
9/7/2024 17:50	41901	REED_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/7/2024 17:50	41902	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/7/2024 17:50	41903	REED_T1	0	0	0	0	0	0	-0.4	-0.42	1	1	0	1200	1200	0
9/7/2024 17:50	65001	NEFF_T2	0	0	0	0	0	0	-0.93	-0.84	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/7/2024 17:58	63305	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/7/2024 17:58	63302	GREE_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
9/7/2024 18:03	47104	MARL_T1	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
9/7/2024 18:04	46501	LOHA_T1	0	0	0	0	0	0	-0.07	-0.01	1	1	0	1200	1200	0
9/7/2024 18:04	46506	LOHA_T1	4	4	0	3.95	4.18	0.23	0	0	0	0	0	0	0	0
9/7/2024 18:04	46504	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/7/2024 18:11	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 18:14	52002	LING_T2	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
9/7/2024 18:14	52004	LING_T2	2	2	0	4	4.3	0.3	0	0	0	0	0	0	0	0
9/7/2024 18:17	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 18:17	52004	LING_T2	2	2	0	4.3	4.1	-0.2	0	0	0	0	0	0	0	0
9/7/2024 18:17	52002	LING_T2	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
9/7/2024 18:17	52101	MEIS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/7/2024 18:19	46506	LOHA_T1	4	4	0	4.15	4.3	0.15	0	0	0	0	0	0	0	0
9/7/2024 18:19	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
9/7/2024 18:19	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 18:19	46504	LOHA_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/7/2024 18:20	57106	SPHI_T2	3	3	0	1.3	1.3	0	0	0	0	0	0	0	0	0
9/7/2024 18:20	57101	SPHI_T2	6	6	0	1.1	1.15	0.05	-0.57	-0.57	0	0	0	0	0	0
9/7/2024 18:30	62607	ENGL_T1	0	0	0	0	0	0	-0.89	-0.92	1	1	0	300	300	0
9/7/2024 18:33	51202	MTON_T2	0	0	0	0	0	0	-0.99	-0.98	1	1	0	1200	1200	0
9/7/2024 18:40	67505	WEWI_T1	0	0	0	0	0	0	-0.01	-0.06	1	1	0	900	900	0
9/7/2024 19:12	51306	WIND_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
9/7/2024 20:08	53501	EVIL_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
9/7/2024 20:08	53502	EVIL_T2	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
9/7/2024 20:18	12005	HATF_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/7/2024 20:18	12003	HATF_T1	0	0	0	0	0	0	1	0.96	0	0	0	0	0	0
9/7/2024 20:25	67503	WEWI_T2	1	1	0	6.8	7.1	0.3	-0.15	-0.18	0	0	0	0	0	0
9/7/2024 20:58	40602	PIGR_T1	0	0	0	0	0	0	-1.35	-1.37	1	1	0	600	600	0
9/7/2024 21:02	57401	SPAN_T1	2	2	0	0.2	0.45	0.25	-0.29	-0.33	1	1	0	600	600	0
9/7/2024 21:09	28102	TWLA_T2	14	18	4	0.49	0.52	0.03	0.19	0.2	0	0	0	0	0	0
9/7/2024 21:16	28704	HAML_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/7/2024 21:18	15601	NSTR_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/7/2024 21:18	15603	NSTR_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
9/7/2024 21:18	23202	HIRU_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
9/7/2024 21:19	24703	FLND_T2	0	1	1	0	0	0	-1.25	-1.23	1	1	0	1200	1200	0
9/7/2024 21:21	51004	NHAR_T1	1	1	0	5.6	5.8	0.2	-0.12	-0.11	0	0	0	0	0	0
9/7/2024 21:21	51002	NHAR_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
9/7/2024 21:22	22003	BOHE_T1	222	229	7	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
9/7/2024 21:22	25402	LAHA_T2	0	0	0	0	0	0	-0.92	-0.92	0	0	0	0	0	0
9/7/2024 21:22	22002	BOHE_T1	0	0	0	0	0	0	0.26	0.34	0	0	0	0	0	0
9/7/2024 21:22	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:23	45902	AUBU_T1	1	17	16	0.1	0.24	0.14	-0.61	-0.63	0	0	0	0	0	0
9/7/2024 21:23	67503	WEWI_T2	1	1	0	7.5	7.8	0.3	-0.23	-0.25	0	0	0	0	0	0
9/7/2024 21:23	13807	SALI_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
9/7/2024 21:24	66701	STRA_T1	0	0	0	0	0	0	-0.14	-0.17	1	1	0	600	600	0
9/7/2024 21:24	67503	WEWI_T2	1	1	0	7.5	7.8	0.3	0	0	0	0	0	0	0	0
9/7/2024 21:24	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 21:24	13905	SEID_T1	0	0	0	0	0	0	-0.98	-0.97	1	1	0	1200	1200	0
9/7/2024 21:24	47001	HUGH_T2	3	3	0	7.57	8.03	0.46	-0.93	-0.92	0	0	0	0	0	0
9/7/2024 21:24	13803	SALI_T1	0	0	0	0	0	0	-0.27	-0.3	1	1	0	1200	1200	0
9/7/2024 21:24	67502	WEWI_T2	0	0	0	0	0	0	-1.53	-1.51	1	1	0	900	900	0
9/7/2024 21:24	66703	STRA_T1	121	157	36	0.35	0.41	0.06	0	0	0	0	0	0	0	0
9/7/2024 21:24	16301	ALPA_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
9/7/2024 21:24	65603	QVIL_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
9/7/2024 21:25	51202	MTON_T2	0	0	0	0	0	0	-1.06	-1.09	1	1	0	1200	1200	0
9/7/2024 21:25	65001	NEFF_T2	0	0	0	0	0	0	-1.2	-1.22	1	1	0	1200	1200	0
9/7/2024 21:25	47001	HUGH_T2	3	3	0	7.57	8.03	0.46	-0.93	-0.92	0	0	0	0	0	0
9/7/2024 21:25	45902	AUBU_T1	1	17	16	0.1	0.24	0.14	-0.61	-0.63	0	0	0	0	0	0
9/7/2024 21:25	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 21:26	65802	RTWN_T2	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
9/7/2024 21:26	45901	AUBU_T1	0	0	0	0	0	0	1.05	1.05	0	0	0	0	0	0
9/7/2024 21:26	47802	MOCA_T2	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
9/7/2024 21:26	45602	WOOL_T1	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
9/7/2024 21:26	64204	KINZ_T1	2	1	-1	0.7	1	0.3	0	0	0	0	0	0	0	0
9/7/2024 21:26	57702	PAXT_T1	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
9/7/2024 21:26	20603	GRWO_T2	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
9/7/2024 21:26	45902	AUBU_T1	1	17	16	0.1	0.24	0.14	0	0	0	0	0	0	0	0
9/7/2024 21:26	14502	SCHO_T1	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
9/7/2024 21:26	64201	KINZ_T1	2	1	-1	0.85	0.8	-0.05	-0.31	-0.35	1	1	0	900	900	0
9/7/2024 21:26	46302	ROHR_T1	4	4	0	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
9/7/2024 21:26	46301	ROHR_T1	1	1	0	5.9	4.6	-1.3	0.13	0.11	0	0	0	0	0	0
9/7/2024 21:26	11202	ELHE_T2	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
9/7/2024 21:26	64202	KINZ_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/7/2024 21:27	50202	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/7/2024 21:27	24602	VARD_T2	2	2	0	0.95	0.7	-0.25	0	0	0	0	0	0	0	0
9/7/2024 21:27	50105	HARR_T3	6	6	0	6.87	6.75	-0.12	0	0	0	0	0	0	0	0
9/7/2024 21:27	40502	CRES_T2	25	31	6	0.28	0.24	-0.04	-1	-0.98	0	0	0	0	0	0
9/7/2024 21:27	61103	BERK_T5	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
9/7/2024 21:27	45902	AUBU_T1	1	17	16	0.1	0.24	0.14	0	0	0	0	0	0	0	0
9/7/2024 21:27	42302	MOWR_T2	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
9/7/2024 21:27	24603	VARD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:27	40501	CRES_T2	3	4	1	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
9/7/2024 21:27	11903	ETEX_T1	0	0	0	0	0	0	0.32	0.35	0	0	0	0	0	0
9/7/2024 21:27	50107	HARR_T3	1	1	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
9/7/2024 21:27	45901	AUBU_T1	0	0	0	0	0	0	1.05	1.05	0	0	0	0	0	0
9/7/2024 21:27	67605	WARW_T1	11	12	1	0.28	0.35	0.07	-1.18	-1.23	0	0	0	0	0	0
9/7/2024 21:27	63804	HEMP_T1	1	1	0	5.7	5.9	0.2	0.84	0.82	0	0	0	0	0	0
9/7/2024 21:27	42601	TUSC_T1	1	1	0	0.3	0.3	0	-0.71	-0.68	2	2	0	1800	1800	0
9/7/2024 21:27	63803	HEMP_T1	0	0	0	0	0	0	0.61	0.58	0	0	0	0	0	0
9/7/2024 21:27	50201	HARR_T3	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
9/7/2024 21:27	55101	WERT_T1	0	0	0	0	0	0	-1.49	-1.56	2	2	0	1500	1500	0
9/7/2024 21:28	59201	THOM_T1	22	20	-2	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
9/7/2024 21:28	63305	GREE_T1	15	16	1	0.39	0.47	0.08	-2.34	-2.34	1	1	0	900	900	0
9/7/2024 21:28	46501	LOHA_T1	0	0	0	0	0	0	-0.1	-0.08	1	1	0	1200	1200	0
9/7/2024 21:28	62104	ELAN_T1	0	0	0	0	0	0	1.08	1.08	0	0	0	0	0	0
9/7/2024 21:28	46506	LOHA_T1	3	3	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
9/7/2024 21:28	46504	LOHA_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/7/2024 21:28	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:28	11301	EMMA_T1	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
9/7/2024 21:28	66901	SHIL_T2	1	1	0	0.4	0.6	0.2	-1.78	-1.77	1	1	0	1200	1200	0
9/7/2024 21:28	59202	THOM_T1	776	760	-16	1.72	1.45	-0.27	0	0	0	0	0	0	0	0
9/7/2024 21:28	12605	MACA_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
9/7/2024 21:28	63304	GREE_T1	8	147	139	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/7/2024 21:28	45902	AUBU_T1	1	17	16	0.1	0.24	0.14	-0.61	-0.63	0	0	0	0	0	0
9/7/2024 21:28	42201	SHEN_T2	3	3	0	0.1	0.15	0.05	0.38	0.37	0	0	0	0	0	0
9/7/2024 21:29	54505	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/7/2024 21:29	62607	ENGL_T1	0	0	0	0	0	0	-1.02	-1.05	1	1	0	300	300	0
9/7/2024 21:29	16103	BING_T2	0	0	0	0	0	0	-1.41	-1.51	1	1	0	900	900	0
9/7/2024 21:29	46504	LOHA_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/7/2024 21:29	48901	FOSP_T2	0	0	0	0	0	0	-0.44	-0.43	1	1	0	600	600	0
9/7/2024 21:29	60803	BUCK_T1	15	19	4	0.55	0.48	-0.07	-1.2	-1.2	1	1	0	600	600	0
9/7/2024 21:29	67605	WARW_T1	11	12	1	0.28	0.35	0.07	0	0	0	0	0	0	0	0
9/7/2024 21:29	10705	CATA_T2	0	0	0	0	0	0	-1.26	-1.26	0	0	0	0	0	0
9/7/2024 21:29	16102	BING_T2	18	18	0	0.51	0.54	0.03	0	0	0	0	0	0	0	0
9/7/2024 21:29	56503	ROCK_T2	5	15	10	0.16	0.11	-0.05	0	0	0	0	0	0	0	0
9/7/2024 21:29	65206	PRIN_T4	1	1	0	3.4	0	-3.4	0	0	0	0	0	0	0	0
9/7/2024 21:29	54201	PENN_T1	11	11	0	0.84	0.88	0.04	-0.98	-0.99	0	0	0	0	0	0
9/7/2024 21:29	21701	SUBU_T1	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
9/7/2024 21:29	46301	ROHR_T1	1	1	0	5.9	4.6	-1.3	0	0	0	0	0	0	0	0
9/7/2024 21:29	21705	SUBU_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
9/7/2024 21:29	46501	LOHA_T1	0	0	0	0	0	0	-0.1	-0.08	1	1	0	1200	1200	0
9/7/2024 21:29	16004	DORN_T1	0	0	0	0	0	0	-1.04	-1.12	1	1	0	1200	1200	0
9/7/2024 21:29	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:29	40602	PIGR_T1	0	0	0	0	0	0	-1.38	-1.4	1	1	0	600	600	0
9/7/2024 21:29	62106	ELAN_T1	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
9/7/2024 21:29	54501	ENOL_T2	0	0	0	0	0	0	-0.44	-0.43	1	1	0	600	600	0
9/7/2024 21:29	57401	SPAN_T1	2	2	0	0.45	0.6	0.15	-0.32	-0.35	1	1	0	600	600	0
9/7/2024 21:29	54203	PENN_T1	18	18	0	0.82	0.95	0.13	0	0	0	0	0	0	0	0
9/7/2024 21:29	13101	NHAM_T1	0	0	0	0	0	0	-3.17	-3.15	2	2	0	2400	2400	0
9/7/2024 21:29	60801	BUCK_T1	40	39	-1	0.19	0.21	0.02	0	0	0	0	0	0	0	0
9/7/2024 21:29	65207	PRIN_T4	1	1	0	1	1	0	0	0	1	1	0	1200	1200	0
9/7/2024 21:29	42802	SELI_T1	0	1	1	0	0.1	0.1	-0.39	-0.42	0	0	0	0	0	0
9/7/2024 21:29	56501	ROCK_T2	29	28	-1	0.22	0.2	-0.02	-1.24	-1.25	0	0	0	0	0	0
9/7/2024 21:29	46506	LOHA_T1	3	3	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
9/7/2024 21:29	10205	ALLE_T3	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/7/2024 21:29	60301	TWVA_T2	0	1	1	0	0.1	0.1	-3.42	-3.44	2	2	0	1800	1800	0
9/7/2024 21:29	12005	HATF_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/7/2024 21:29	67604	WARW_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
9/7/2024 21:29	49803	UNIV_T1	1	2	1	4.6	2.35	-2.25	-2.31	-2.37	0	0	0	0	0	0
9/7/2024 21:29	67603	WARW_T1	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
9/7/2024 21:29	12006	HATF_T1	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
9/7/2024 21:29	21703	SUBU_T1	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
9/7/2024 21:29	46903	MNTG_T2	0	0	0	0	0	0	-0.11	-0.13	1	1	0	600	600	0
9/7/2024 21:30	46302	ROHR_T1	4	4	0	0.8	0.65	-0.15	0.13	0.13	0	0	0	0	0	0
9/7/2024 21:30	10705	CATA_T2	0	0	0	0	0	0	-1.26	-1.26	0	0	0	0	0	0
9/7/2024 21:30	42201	SHEN_T2	1	4	3	0.2	0.17	-0.03	0.38	0.37	0	0	0	0	0	0
9/7/2024 21:30	20102	AVOC_T1	0	0	0	0	0	0	-0.67	-0.7	0	0	0	0	0	0
9/7/2024 21:30	59201	THOM_T1	20	16	-4	0.45	0.21	-0.24	0	0	0	0	0	0	0	0
9/7/2024 21:30	52502	PROG_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
9/7/2024 21:30	40101	HUNT_T2	0	0	0	0	0	0	-0.7	-0.75	0	0	0	0	0	0
9/7/2024 21:30	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/7/2024 21:30	48301	ORWI_T1	2	2	0	4.8	4.8	0	0.14	-0.04	0	0	0	0	0	0
9/7/2024 21:30	45902	AUBU_T1	11	43	32	0.22	0.22	0	-0.61	-0.63	0	0	0	0	0	0
9/7/2024 21:30	59202	THOM_T1	755	851	96	1.49	1.3	-0.19	0	0	0	0	0	0	0	0
9/7/2024 21:30	21705	SUBU_T1	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
9/7/2024 21:30	16301	ALPA_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
9/7/2024 21:30	66001	RHEE_T2	0	0	0	0	0	0	-1.94	-2	2	2	0	2100	2100	0
9/7/2024 21:30	58705	ROSE_T2	5	5	0	2.24	2.52	0.28	0	0	0	0	0	0	0	0
9/7/2024 21:30	40504	CRES_T1	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
9/7/2024 21:30	21701	SUBU_T1	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
9/7/2024 21:30	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/7/2024 21:30	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/7/2024 21:30	21704	SUBU_T1	0	0	0	0	0	0	-2.59	-2.57	2	2	0	2400	2400	0
9/7/2024 21:30	48901	FOSP_T2	0	0	0	0	0	0	-0.44	-0.43	1	1	0	600	600	0
9/7/2024 21:30	58701	ROSE_T2	0	0	0	0	0	0	-0.17	-0.2	1	1	0	600	600	0
9/7/2024 21:30	57401	SPAN_T1	2	2	0	0.35	0.6	0.25	-0.32	-0.35	1	1	0	600	600	0
9/7/2024 21:30	44201	POIN_T1	173	218	45	0.25	0.28	0.03	-1.99	-2.02	1	1	0	1200	1200	0
9/7/2024 21:30	14403	SSLA_T1	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
9/7/2024 21:30	42802	SELI_T1	0	2	2	0	0.1	0.1	-0.39	-0.42	0	0	0	0	0	0
9/7/2024 21:30	20403	ASHF_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
9/7/2024 21:30	67602	WARW_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
9/7/2024 21:31	46803	HEPB_T2	2	5	3	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
9/7/2024 21:31	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 21:31	42204	SHEN_T2	0	0	0	0	0	0	-0.7	-0.66	1	1	0	1200	1200	0
9/7/2024 21:31	59202	THOM_T1	755	851	96	1.49	1.3	-0.19	0	0	0	0	0	0	0	0
9/7/2024 21:31	50107	HARR_T3	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
9/7/2024 21:31	67503	WEWI_T2	1	1	0	7.6	8.3	0.7	0	0	0	0	0	0	0	0
9/7/2024 21:31	46002	BERW_T2	0	0	0	0	0	0	-1.42	-1.44	1	1	0	900	900	0
9/7/2024 21:31	14204	EALL_T2	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
9/7/2024 21:31	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/7/2024 21:31	41901	REED_T1	4	5	1	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
9/7/2024 21:31	49804	UNIV_T1	0	1	1	0	0.2	0.2	0.49	0.42	0	0	0	0	0	0
9/7/2024 21:31	67502	WEWI_T2	0	0	0	0	0	0	-1.53	-1.51	1	1	0	900	900	0
9/7/2024 21:31	50105	HARR_T3	6	6	0	6.9	6.73	-0.17	0	0	0	0	0	0	0	0
9/7/2024 21:31	46801	HEPB_T2	13	23	10	0.12	0.24	0.12	0.55	0.57	0	0	0	0	0	0
9/7/2024 21:31	53802	MBRG_T2	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
9/7/2024 21:31	49803	UNIV_T1	1	2	1	4.7	2.35	-2.35	0	0	0	0	0	0	0	0
9/7/2024 21:31	63501	HEID_TBK1-2	28	32	4	0.4	0.39	-0.01	-0.42	-0.43	1	1	0	900	900	0
9/7/2024 21:31	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:31	41903	REED_T1	0	0	0	0	0	0	-0.55	-0.54	1	1	0	1200	1200	0
9/7/2024 21:31	58402	MORO_T1	0	0	0	0	0	0	0.15	0.15	1	1	0	900	900	0
9/7/2024 21:31	53601	DALM_T2	1	1	0	1.6	1.5	-0.1	-0.12	-0.1	0	0	0	0	0	0
9/7/2024 21:31	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/7/2024 21:31	62104	ELAN_T1	0	0	0	0	0	0	1.08	1.08	0	0	0	0	0	0
9/7/2024 21:31	50201	HARR_T3	1	1	0	1.2	1.3	0.1	-1.09	-1.09	1	1	0	1200	1200	0
9/7/2024 21:31	42201	SHEN_T2	1	4	3	0.2	0.17	-0.03	0.38	0.37	0	0	0	0	0	0
9/7/2024 21:31	67703	WERN_T2	0	0	0	0	0	0	-0.83	-0.85	1	1	0	900	900	0
9/7/2024 21:31	59201	THOM_T1	20	16	-4	0.45	0.21	-0.24	0	0	0	0	0	0	0	0
9/7/2024 21:32	52004	LING_T2	2	2	0	4.45	4.7	0.25	0	0	0	0	0	0	0	0
9/7/2024 21:32	61701	ELIZ_T1	1	1	0	3.5	3.7	0.2	0	0	0	0	0	0	0	0
9/7/2024 21:32	52002	LING_T2	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
9/7/2024 21:32	13803	SALI_T1	0	0	0	0	0	0	-0.27	-0.3	1	1	0	1200	1200	0
9/7/2024 21:32	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:32	49803	UNIV_T1	1	2	1	4.7	2.35	-2.35	-2.31	-2.37	0	0	0	0	0	0
9/7/2024 21:32	61703	ELIZ_T1	0	0	0	0	0	0	-2.38	-2.36	2	2	0	2100	2100	0
9/7/2024 21:32	64503	LAVI_T1	0	0	0	0	0	0	-0.68	-0.7	1	1	0	1200	1200	0
9/7/2024 21:32	58701	ROSE_T2	0	0	0	0	0	0	-0.17	-0.2	1	1	0	600	600	0
9/7/2024 21:32	66302	MCGO_T2	0	0	0	0	0	0	-1.53	-1.5	1	1	0	600	600	0
9/7/2024 21:32	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 21:32	42902	MIDD_T2	10	13	3	0.17	0.22	0.05	-0.72	-0.7	0	0	0	0	0	0
9/7/2024 21:32	58705	ROSE_T2	5	5	0	2.24	2.52	0.28	0	0	0	0	0	0	0	0
9/7/2024 21:32	48901	FOSP_T2	0	0	0	0	0	0	-0.44	-0.43	1	1	0	600	600	0
9/7/2024 21:32	61301	EARL_T1	0	0	0	0	0	0	-0.48	-0.48	1	1	0	900	900	0
9/7/2024 21:32	46203	DANV_T2	1	1	0	8.6	8.8	0.2	-2.11	-2.1	0	0	0	0	0	0
9/7/2024 21:32	63602	LETO_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
9/7/2024 21:32	57401	SPAN_T1	2	2	0	0.35	0.6	0.25	-0.64	-0.7	2	2	0	1200	1200	0
9/7/2024 21:32	60102	COCA_T1	0	0	0	0	0	0	0.44	0.37	2	2	0	1200	1200	0
9/7/2024 21:32	67605	WARW_T1	11	15	4	0.31	0.62	0.31	-1.18	-1.23	0	0	0	0	0	0
9/7/2024 21:32	49804	UNIV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/7/2024 21:32	44703	MUNC_T2	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/7/2024 21:32	46506	LOHA_T1	3	3	0	5.33	5.53	0.2	0	0	0	0	0	0	0	0
9/7/2024 21:32	48902	FOSP_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
9/7/2024 21:32	44702	MUNC_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/7/2024 21:32	46504	LOHA_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
9/7/2024 21:32	40101	HUNT_T2	0	0	0	0	0	0	-0.7	-0.75	0	0	0	0	0	0
9/7/2024 21:32	46501	LOHA_T1	0	0	0	0	0	0	-0.1	-0.08	1	1	0	1200	1200	0
9/7/2024 21:32	42903	MIDD_T2	2	2	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
9/7/2024 21:33	43103	SMIL_T2	6	9	3	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
9/7/2024 21:33	40502	CRES_T2	20	39	19	0.25	0.22	-0.03	-1	-0.98	0	0	0	0	0	0
9/7/2024 21:33	56501	ROCK_T2	5	28	23	0.6	0.2	-0.4	-3.73	-3.76	0	0	0	0	0	0
9/7/2024 21:33	50105	HARR_T3	6	6	0	6.9	6.73	-0.17	0	0	0	0	0	0	0	0
9/7/2024 21:33	56503	ROCK_T2	1	15	14	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/7/2024 21:33	54202	PENN_T2	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
9/7/2024 21:33	40501	CRES_T2	1	6	5	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
9/7/2024 21:33	50107	HARR_T3	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
9/7/2024 21:33	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:33	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:33	62607	ENGL_T1	0	0	0	0	0	0	-1.02	-1.05	1	1	0	300	300	0
9/7/2024 21:33	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 21:33	43102	SMIL_T2	5	6	1	0.14	0.38	0.24	0	0	0	0	0	0	0	0
9/7/2024 21:33	10705	CATA_T2	0	0	0	0	0	0	-1.26	-1.26	0	0	0	0	0	0
9/7/2024 21:33	43101	SMIL_T2	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
9/7/2024 21:33	52001	LING_T1	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
9/7/2024 21:33	10801	CHHI_T1	0	0	0	0	0	0	-1.44	-1.42	2	2	0	1500	1500	0
9/7/2024 21:33	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/7/2024 21:33	13803	SALI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:33	67605	WARW_T1	11	15	4	0.31	0.62	0.31	0	0	0	0	0	0	0	0
9/7/2024 21:33	43201	MVIL_T2	0	0	0	0	0	0	-1.33	-1.33	0	0	0	0	0	0
9/7/2024 21:33	20603	GRWO_T2	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
9/7/2024 21:33	50201	HARR_T3	1	1	0	1.2	1.3	0.1	-1.09	-1.09	1	1	0	1200	1200	0
9/7/2024 21:33	45501	DERR_T2	1	1	0	0.1	0.3	0.2	-0.88	-0.85	2	2	0	1800	1800	0
9/7/2024 21:33	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/7/2024 21:33	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/7/2024 21:34	52404	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/7/2024 21:34	52403	GRPA_T2	6	1	-5	0.55	2.6	2.05	-0.22	-0.22	0	0	0	0	0	0
9/7/2024 21:34	60803	BUCK_T1	17	21	4	0.42	0.46	0.04	0	0	0	0	0	0	0	0
9/7/2024 21:34	52402	GRPA_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
9/7/2024 21:34	66703	STRA_T1	154	162	8	0.4	0.49	0.09	0	0	0	0	0	0	0	0
9/7/2024 21:34	54203	PENN_T1	18	18	0	0.78	1.12	0.34	0	0	0	0	0	0	0	0
9/7/2024 21:34	40501	CRES_T2	1	6	5	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
9/7/2024 21:34	56501	ROCK_T2	5	28	23	0.6	0.2	-0.4	-1.24	-1.25	0	0	0	0	0	0
9/7/2024 21:34	20403	ASHF_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
9/7/2024 21:34	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:34	66701	STRA_T1	0	0	0	0	0	0	-0.14	-0.17	1	1	0	600	600	0
9/7/2024 21:34	66702	STRA_T1	0	0	0	0	0	0	-0.54	-0.55	2	2	0	1500	1500	0
9/7/2024 21:34	60801	BUCK_T1	27	43	16	0.15	0.23	0.08	-0.21	-0.22	0	0	0	0	0	0
9/7/2024 21:34	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:34	56503	ROCK_T2	1	15	14	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/7/2024 21:34	40502	CRES_T2	20	39	19	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
9/7/2024 21:34	47104	MARL_T1	0	0	0	0	0	0	-0.86	-0.94	0	0	0	0	0	0
9/7/2024 21:34	65205	PRIN_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
9/7/2024 21:34	44801	EDAN_T2	182	195	13	0.54	0.64	0.1	-1.67	-1.67	0	0	0	0	0	0
9/7/2024 21:34	20603	GRWO_T2	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
9/7/2024 21:34	63305	GREE_T1	15	16	1	0.44	0.47	0.03	-2.34	-2.34	1	1	0	900	900	0
9/7/2024 21:34	67505	WEWI_T1	0	0	0	0	0	0	-0.19	-0.3	1	1	0	900	900	0
9/7/2024 21:34	61701	ELIZ_T1	1	1	0	3.5	3.7	0.2	0	0	0	0	0	0	0	0
9/7/2024 21:34	63304	GREE_T1	1	148	147	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/7/2024 21:34	67605	WARW_T1	11	15	4	0.31	0.62	0.31	-1.18	-1.23	0	0	0	0	0	0
9/7/2024 21:34	40702	FFLD_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/7/2024 21:34	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:34	54201	PENN_T1	11	15	4	0.88	0.81	-0.07	-0.98	-0.99	0	0	0	0	0	0
9/7/2024 21:34	42802	SELI_T1	0	2	2	0	0.1	0.1	-0.39	-0.42	0	0	0	0	0	0
9/7/2024 21:34	60502	NMAN_T2	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
9/7/2024 21:34	61703	ELIZ_T1	0	0	0	0	0	0	-2.38	-2.36	2	2	0	2100	2100	0
9/7/2024 21:34	56504	ROCK_T2	0	0	0	0	0	0	-0.11	-0.16	0	0	0	0	0	0
9/7/2024 21:34	13503	MCWI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 21:35	46803	HEPB_T2	2	5	3	0.2	0.14	-0.06	0.51	0.51	0	0	0	0	0	0
9/7/2024 21:35	46401	FLEM_T2	529	670	141	0.4	0.47	0.07	-0.44	-0.44	0	0	0	0	0	0
9/7/2024 21:35	45501	DERR_T2	1	1	0	0.1	0.3	0.2	-1.76	-1.7	4	4	0	3600	3600	0
9/7/2024 21:35	61703	ELIZ_T1	0	0	0	0	0	0	-2.38	-2.36	2	2	0	2100	2100	0
9/7/2024 21:35	46801	HEPB_T2	13	23	10	0.12	0.24	0.12	0	0	0	0	0	0	0	0
9/7/2024 21:35	61701	ELIZ_T1	1	1	0	3.5	3.7	0.2	0	0	0	0	0	0	0	0
9/7/2024 21:35	46004	BERW_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
9/7/2024 21:35	65804	RTWN_T1	0	0	0	0	0	0	0.06	0.06	1	1	0	600	600	0
9/7/2024 21:35	46402	FLEM_T2	730	871	141	0.36	0.45	0.09	0	0	0	0	0	0	0	0
9/7/2024 21:35	65904	SAKR_T2	0	0	0	0	0	0	-2.2	-2.2	3	3	0	1500	1500	0
9/7/2024 21:35	57205	ROSS_T1	0	0	0	0	0	0	-0.95	-0.97	1	1	0	900	900	0
9/7/2024 21:35	57101	SPHI_T2	6	6	0	0.73	1.18	0.45	0.26	0.27	0	0	0	0	0	0
9/7/2024 21:35	63401	HONY_T1	0	0	0	0	0	0	-0.28	-0.23	1	1	0	600	600	0
9/7/2024 21:35	57104	SPHI_T2	1	1	0	0.4	4	3.6	0	0	0	0	0	0	0	0
9/7/2024 21:35	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 21:35	48902	FOSP_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
9/7/2024 21:35	65401	MARL_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
9/7/2024 21:35	61202	REIN_T1	0	14	14	0	0.12	0.12	0	0	0	0	0	0	0	0
9/7/2024 21:35	29301	DAPP_T1	1	1	0	9.6	9.6	0	0	0	1	1	0	600	600	0
9/7/2024 21:35	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
9/7/2024 21:35	61102	BERK_T5	0	0	0	0	0	0	-0.59	-0.63	2	2	0	1200	1200	0
9/7/2024 21:35	67801	WLAN_T1	0	0	0	0	0	0	-0.52	0.41	0	0	0	0	0	0
9/7/2024 21:35	57106	SPHI_T2	3	3	0	1.13	1.4	0.27	0	0	0	0	0	0	0	0
9/7/2024 21:35	64902	MILL_T2	0	0	0	0	0	0	-1.24	-1.31	1	1	0	900	900	0
9/7/2024 21:35	65901	SAKR_T2	1	1	0	8.3	8.6	0.3	0	0	0	0	0	0	0	0
9/7/2024 21:35	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:35	63404	HONY_T1	0	22	22	0	0.16	0.16	0	0	0	0	0	0	0	0
9/7/2024 21:36	42802	SELI_T1	0	2	2	0	0.1	0.1	-0.42	-0.42	0	0	0	0	0	0
9/7/2024 21:36	66505	SMAN_T2	0	0	0	0	0	0	0.08	0.05	1	1	0	900	900	0
9/7/2024 21:36	58703	ROSE_T2	0	0	0	0	0	0	-1.42	-1.43	0	0	0	0	0	0
9/7/2024 21:36	54201	PENN_T1	11	15	4	0.88	0.81	-0.07	0	0	0	0	0	0	0	0
9/7/2024 21:36	57401	SPAN_T1	2	2	0	0.35	0.6	0.25	-0.64	-0.7	2	2	0	1200	1200	0
9/7/2024 21:36	58401	MORO_T1	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
9/7/2024 21:36	41901	REED_T1	4	5	1	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
9/7/2024 21:36	64902	MILL_T2	0	0	0	0	0	0	-1.31	-1.32	1	1	0	900	900	0
9/7/2024 21:36	41902	REED_T1	0	0	0	0	0	0	0.81	0.74	0	0	0	0	0	0
9/7/2024 21:36	61703	ELIZ_T1	0	0	0	0	0	0	-2.36	-2.42	2	2	0	2100	2100	0
9/7/2024 21:36	42201	SHEN_T2	1	4	3	0.2	0.17	-0.03	0.37	0.37	0	0	0	0	0	0
9/7/2024 21:36	40502	CRES_T2	20	39	19	0.25	0.22	-0.03	-0.49	-0.5	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/7/2024 21:36	40901	JESH_T1	1	1	0	0.2	0.1	-0.1	0.22	0.2	0	0	0	0	0	0
9/7/2024 21:36	40501	CRES_T2	1	6	5	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
9/7/2024 21:36	43202	MVIL_T2	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0
9/7/2024 21:36	62106	ELAN_T1	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
9/7/2024 21:36	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 21:36	59201	THOM_T1	20	16	-4	0.45	0.21	-0.24	0	0	0	0	0	0	0	0
9/7/2024 21:36	61701	ELIZ_T1	1	1	0	3.5	3.7	0.2	0	0	0	0	0	0	0	0
9/7/2024 21:36	44201	POIN_T1	173	218	45	0.25	0.28	0.03	-2.02	-2.09	1	1	0	1200	1200	0
9/7/2024 21:36	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:36	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/7/2024 21:36	58705	ROSE_T2	5	5	0	2.24	2.52	0.28	0	0	0	0	0	0	0	0
9/7/2024 21:36	54203	PENN_T1	18	18	0	0.78	1.12	0.34	0.04	0	0	0	0	0	0	0
9/7/2024 21:36	59202	THOM_T1	755	851	96	1.49	1.3	-0.19	0	0	0	0	0	0	0	0
9/7/2024 21:36	58701	ROSE_T2	0	0	0	0	0	0	-0.17	-0.2	1	1	0	600	600	0
9/7/2024 21:37	43103	SMIL_T2	6	9	3	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
9/7/2024 21:37	59003	MIFF_T1	1	1	0	1.2	1.1	-0.1	-0.84	-0.83	0	0	0	0	0	0
9/7/2024 21:37	42902	MIDD_T2	10	13	3	0.17	0.22	0.05	-1.39	-1.41	0	0	0	0	0	0
9/7/2024 21:37	20403	ASHF_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
9/7/2024 21:37	52503	PROG_T2	0	0	0	0	0	0	-0.68	-0.7	1	1	0	900	900	0
9/7/2024 21:37	51201	MTON_T1	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
9/7/2024 21:37	46102	MACJ_T1	0	0	0	0	0	0	0.78	0.77	0	0	0	0	0	0
9/7/2024 21:37	59002	MIFF_T1	6	6	0	0.82	0.88	0.06	0	0	0	0	0	0	0	0
9/7/2024 21:37	46801	HEPB_T2	13	23	10	0.12	0.24	0.12	0	0	0	0	0	0	0	0
9/7/2024 21:37	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/7/2024 21:37	62607	ENGL_T1	0	0	0	0	0	0	-1.05	-1.06	1	1	0	300	300	0
9/7/2024 21:37	44801	EDAN_T2	182	195	13	0.54	0.64	0.1	-1.67	-1.67	0	0	0	0	0	0
9/7/2024 21:37	42801	SELI_T1	0	0	0	0	0	0	-1.49	-1.58	1	1	0	1200	1200	0
9/7/2024 21:37	67901	WNHO_T2	0	9	9	0	0.13	0.13	0	0	0	0	0	0	0	0
9/7/2024 21:37	59101	WALK_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
9/7/2024 21:37	46803	HEPB_T2	2	5	3	0.2	0.14	-0.06	0.51	0.52	0	0	0	0	0	0
9/7/2024 21:37	42903	MIDD_T2	2	2	0	1.9	1.8	-0.1	-0.36	-0.35	0	0	0	0	0	0
9/7/2024 21:37	43102	SMIL_T2	5	6	1	0.14	0.38	0.24	0	0	0	0	0	0	0	0
9/7/2024 21:37	59201	THOM_T1	20	16	-4	0.45	0.21	-0.24	0	0	0	0	0	0	0	0
9/7/2024 21:37	59202	THOM_T1	755	851	96	1.49	1.3	-0.19	0	0	0	0	0	0	0	0
9/7/2024 21:37	43106	SMIL_T2	0	0	0	0	0	0	-0.37	-0.52	1	1	0	1200	1200	0
9/7/2024 21:37	63501	HEID_TBK1-2	28	32	4	0.4	0.39	-0.01	-0.43	-0.5	1	1	0	900	900	0
9/7/2024 21:37	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 21:37	42802	SELI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/7/2024 21:38	59102	WALK_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
9/7/2024 21:38	46501	DERR_T2	1	1	0	0.1	0.3	0.2	-0.85	-0.89	2	2	0	1800	1800	0
9/7/2024 21:38	42903	MIDD_T2	2	2	0	1.9	1.8	-0.1	-0.36	-0.35	0	0	0	0	0	0
9/7/2024 21:38	49803	UNIV_T1	1	2	1	4.7	2.35	-2.35	-2.37	-2.37	0	0	0	0	0	0
9/7/2024 21:38	44302	BEAV_T2	4	35	31	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/7/2024 21:38	44301	BEAV_T2	2	2	0	0.1	0.35	0.25	-0.53	-0.53	1	1	0	600	600	0
9/7/2024 21:38	51202	MTON_T2	0	0	0	0	0	0	-1.09	-1.1	1	1	0	1200	1200	0
9/7/2024 21:38	64201	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
9/7/2024 21:38	21204	ECAR_T2	1	1	0	0	0.1	0.1	-0.67	-0.7	0	0	0	0	0	0
9/7/2024 21:38	59101	WALK_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
9/7/2024 21:38	46506	LOHA_T1	3	3	0	5.33	5.53	0.2	0	0	0	0	0	0	0	0
9/7/2024 21:38	54001	SDLE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:38	56501	ROCK_T2	5	28	23	0.6	0.2	-0.4	-1.25	0.04	0	0	0	0	0	0
9/7/2024 21:38	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
9/7/2024 21:38	20403	ASHF_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
9/7/2024 21:38	46504	LOHA_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
9/7/2024 21:38	53802	MBRG_T2	0	0	0	0	0	0	0.6	0.55	0	0	0	0	0	0
9/7/2024 21:38	54505	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/7/2024 21:38	46203	DANV_T2	1	1	0	8.6	8.8	0.2	-4.21	-4.24	0	0	0	0	0	0
9/7/2024 21:38	49804	UNIV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/7/2024 21:38	56503	ROCK_T2	1	15	14	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/7/2024 21:38	46501	LOHA_T1	0	0	0	0	0	0	-0.08	-0.11	1	1	0	1200	1200	0
9/7/2024 21:38	20401	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/7/2024 21:38	54501	ENOL_T2	0	0	0	0	0	0	-0.43	-0.45	1	1	0	600	600	0
9/7/2024 21:38	16004	DORN_T1	0	0	0	0	0	0	-1.12	-1.06	1	1	0	1200	1200	0
9/7/2024 21:38	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
9/7/2024 21:38	14403	SSLA_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
9/7/2024 21:38	42902	MIDD_T2	10	13	3	0.17	0.22	0.05	0	0	0	0	0	0	0	0
9/7/2024 21:38	40504	CRES_T1	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
9/7/2024 21:38	21206	ECAR_T2	1	1	0	7.5	8.2	0.7	0.04	0.05	0	0	0	0	0	0
9/7/2024 21:38	64203	KINZ_T1	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
9/7/2024 21:39	40901	JESH_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/7/2024 21:39	67605	WARW_T1	11	15	4	0.31	0.62	0.31	-1.23	-1.24	0	0	0	0	0	0
9/7/2024 21:39	56503	ROCK_T2	1	15	14	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/7/2024 21:39	51306	WIND_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
9/7/2024 21:39	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 21:39	40902	JESH_T1	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
9/7/2024 21:39	58402	MORO_T1	0	0	0	0	0	0	0.15	0.14	1	1	0	900	900	0
9/7/2024 21:39	46301	ROHR_T1	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0	0
9/7/2024 21:39	46302	ROHR_T1	4	4	0	0.65	0.75	0.1	0.13	0.12	0	0	0	0	0	0
9/7/2024 21:39	44201	POIN_T1	173	218	45	0.25	0.28	0.03	-2.02	-2.09	1	1	0	1200	1200	0
9/7/2024 21:39	65503	MOJO_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
9/7/2024 21:39	44801	EDAN_T2	182	195	13	0.54	0.64	0.1	-1.67	-1.67	0	0	0	0	0	0
9/7/2024 21:39	52503	PROG_T2	0	0	0	0	0	0	-0.68	-0.7	1	1	0	900	900	0
9/7/2024 21:39	56501	ROCK_T2	5	28	23	0.6	0.2	-0.4	-2.51	0.08	0	0	0	0	0	0
9/7/2024 21:39	40101	HUNT_T2	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
9/7/2024 21:40	43202	MVIL_T2	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0
9/7/2024 21:40	59101	WALK_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
9/7/2024 21:40	55002	NEWP_T1	6	6	0	1.23	0.82	-0.41	-0.28	-0.27	0	0	0	0	0	0
9/7/2024 21:40	42902	MIDD_T2	10	13	3	0.17	0.22	0.05	-1.39	-1.41	0	0	0	0	0	0
9/7/2024 21:40	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
9/7/2024 21:40	40501	CRES_T2	1	6	5	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
9/7/2024 21:40	43103	SMIL_T2	6	9	3	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
9/7/2024 21:40	43102	SMIL_T2	5	6	1	0.14	0.38	0.24	-0.89	-0.91	1	1	0	600	600	0
9/7/2024 21:40	40502	CRES_T2	20	39	19	0.25	0.22	-0.03	-0.49	-0.5	0	0	0	0	0	0
9/7/2024 21:40	11301	EMMA_T1	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
9/7/2024 21:40	44301	BEAV_T2	2	2	0	0.1	0.35	0.25	-0.53	-0.53	1	1	0	600	600	0
9/7/2024 21:40	55101	WERT_T1	0	0	0	0	0	0	-3.12	-3.07	4	4	0	3000	3000	0
9/7/2024 21:40	42903	MIDD_T2	2	2	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
9/7/2024 21:40	21501	CEAV_T2	0	0	0	0	0	0	0.81	0.74	0	0	0	0	0	0
9/7/2024 21:40	63801	HEMP_T1	0	0	0	0	0	0	-1.25	-1.27	1	1	0	900	900	0
9/7/2024 21:40	55001	NEWP_T1	11	7	-4	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
9/7/2024 21:40	45501	DERR_T2	1	1	0	0.1	0.3	0.2	-0.85	-0.89	2	2	0	1800	1800	0
9/7/2024 21:40	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 21:40	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:40	44302	BEAV_T2	4	35	31	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/7/2024 21:41	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:41	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/7/2024 21:41	40502	CRES_T2	20	39	19	0.25	0.22	-0.03	-0.49	-0.5	0	0	0	0	0	0
9/7/2024 21:41	56501	ROCK_T2	5	28	23	0.6	0.2	-0.4	-1.25	0.04	0	0	0	0	0	0
9/7/2024 21:41	42201	SHEN_T2	1	4	3	0.2	0.17	-0.03	0.37	0.37	0	0	0	0	0	0
9/7/2024 21:41	41902	REED_T1	0	0	0	0	0	0	0.81	0.74	0	0	0	0	0	0
9/7/2024 21:41	42902	MIDD_T2	10	13	3	0.17	0.22	0.05	-0.7	-0.71	0	0	0	0	0	0
9/7/2024 21:41	42802	SELI_T1	0	2	2	0	0.1	0.1	-0.84	-0.84	0	0	0	0	0	0
9/7/2024 21:41	40501	CRES_T2	1	6	5	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
9/7/2024 21:41	42903	MIDD_T2	2	2	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
9/7/2024 21:41	46504	LOHA_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
9/7/2024 21:41	41901	REED_T1	4	5	1	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
9/7/2024 21:41	56503	ROCK_T2	1	15	14	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/7/2024 21:41	46506	LOHA_T1	3	3	0	5.33	5.53	0.2	-0.07	-0.09	0	0	0	0	0	0
9/7/2024 21:42	52102	MEIS_T1	64	141	77	0.14	0.22	0.08	0	0	0	0	0	0	0	0
9/7/2024 21:42	42902	MIDD_T2	10	13	3	0.17	0.22	0.05	-0.7	-0.71	0	0	0	0	0	0
9/7/2024 21:42	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/7/2024 21:42	46401	FLEM_T2	529	670	141	0.4	0.47	0.07	0	0	0	0	0	0	0	0
9/7/2024 21:42	50201	HARR_T3	1	1	0	1.2	1.3	0.1	-1.09	-1.11	1	1	0	1200	1200	0
9/7/2024 21:42	46203	DANV_T2	1	1	0	8.6	8.8	0.2	-2.1	-2.12	0	0	0	0	0	0
9/7/2024 21:42	42903	MIDD_T2	2	2	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
9/7/2024 21:42	50107	HARR_T3	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
9/7/2024 21:42	46402	FLEM_T2	730	871	141	0.36	0.45	0.09	-0.42	-0.43	0	0	0	0	0	0
9/7/2024 21:42	52101	MEIS_T1	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
9/7/2024 21:42	58202	NEWV_T1	8	8	0	0.3	0.45	0.15	-0.07	-0.08	0	0	0	0	0	0
9/7/2024 21:42	63305	GREE_T1	15	16	1	0.44	0.47	0.03	0	0	0	0	0	0	0	0
9/7/2024 21:42	51202	MTON_T2	0	0	0	0	0	0	-1.09	-1.1	1	1	0	1200	1200	0
9/7/2024 21:42	63304	GREE_T1	1	148	147	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/7/2024 21:42	50105	HARR_T3	6	6	0	6.9	6.73	-0.17	0	0	0	0	0	0	0	0
9/7/2024 21:42	52004	LING_T2	2	2	0	4.45	4.7	0.25	0	0	0	0	0	0	0	0
9/7/2024 21:42	67901	WNHO_T2	0	9	9	0	0.13	0.13	-0.49	-0.49	1	1	0	900	900	0
9/7/2024 21:42	42802	SELI_T1	0	2	2	0	0.1	0.1	-0.42	-0.42	0	0	0	0	0	0
9/7/2024 21:42	52002	LING_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
9/7/2024 21:42	63302	GREE_T1	0	0	0	0	0	0	0.27	0.2	0	0	0	0	0	0
9/7/2024 21:43	65401	MARI_T1	0	0	0	0	0	0	-0.25	-0.29	0	0	0	0	0	0
9/7/2024 21:43	44302	BEAV_T2	4	35	31	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/7/2024 21:43	67604	WARW_T1	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
9/7/2024 21:43	52404	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/7/2024 21:43	67805	WLAN_T1	0	0	0	0	0	0	-1.53	-1.51	0	0	0	0	0	0
9/7/2024 21:43	46401	FLEM_T2	529	670	141	0.4	0.47	0.07	-0.44	-0.5	0	0	0	0	0	0
9/7/2024 21:43	52403	GRPA_T2	6	1	-5	0.55	2.6	2.05	-0.22	-0.24	0	0	0	0	0	0
9/7/2024 21:43	44301	BEAV_T2	2	2	0	0.1	0.35	0.25	0	0	0	0	0	0	0	0
9/7/2024 21:43	42802	SELI_T1	0	2	2	0	0.1	0.1	-0.42	-0.42	0	0	0	0	0	0
9/7/2024 21:43	52402	GRPA_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
9/7/2024 21:43	46402	FLEM_T2	730	871	141	0.36	0.45	0.09	-0.42	-0.43	0	0	0	0	0	0
9/7/2024 21:43	67605	WARW_T1	11	15	4	0.31	0.62	0.31	0	0	0	0	0	0	0	0
9/7/2024 21:43	55101	WERT_T1	0	0	0	0	0	0	-3.12	-3.07	4	4	0	3000	3000	0
9/7/2024 21:44	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:44	40901	JESH_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/7/2024 21:44	58401	MORO_T1	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
9/7/2024 21:44	54001	SDLE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:44	45501	DERR_T2	1	1	0	0.1	0.3	0.2	-0.85	-0.89	2	2	0	1800	1800	0
9/7/2024 21:44	41901	REED_T1	4	5	1	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
9/7/2024 21:45	45501	DERR_T2	0	1	1	0	0.3	0.3	-1.7	-1.79	4	4	0	3600	3600	0
9/7/2024 21:45	41901	REED_T1	5	0	-5	0.18	0	-0.18	0	0	0	0	0	0	0	0
9/7/2024 21:45	41902	REED_T1	0	0	0	0	0	0	0.81	0.74	0	0	0	0	0	0
9/7/2024 21:46	55105	WERT_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	900	900	0
9/7/2024 21:46	49804	UNIV_T1	0	1	1	0	0.2	0.2	0.84	0.91	0	0	0	0	0	0
9/7/2024 21:46	55101	WERT_T1	0	0	0	0	0	0	-1.56	-1.53	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/7/2024 21:46	49803	UNIV_T1	2	1	-1	2.35	4.6	2.25	0	0	0	0	0	0	0	0
9/7/2024 21:46	59101	WALK_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
9/7/2024 21:47	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7/2024 21:48	55002	NEWP_T1	6	6	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
9/7/2024 21:48	55001	NEWP_T1	6	3	-3	0.1	0.1	0	-0.33	-0.3	0	0	0	0	0	0
9/7/2024 21:52	46101	MACI_T2	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
9/7/2024 21:53	46101	MACI_T2	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
9/7/2024 22:05	55101	WERT_T1	0	0	0	0	0	0	-1.53	-1.54	2	2	0	1500	1500	0
9/7/2024 22:06	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/7/2024 22:37	53802	MBRG_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
9/7/2024 23:26	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 6:30	14706	TREX_T1	0	0	0	0	0	0	-1.22	-1.21	2	2	0	2100	2100	0
9/8/2024 7:03	48301	ORWI_T1	2	2	0	5	5	0	-0.02	-0.02	0	0	0	0	0	0
9/8/2024 7:10	16301	ALPA_T1	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
9/8/2024 7:13	16004	DORN_T1	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
9/8/2024 7:14	14203	EALL_T1	0	0	0	0	0	0	0.74	0.73	0	0	0	0	0	0
9/8/2024 7:18	51204	MTON_T2	0	0	0	0	0	0	-1.43	-1.44	2	2	0	1500	1500	0
9/8/2024 7:21	13704	SCHN_T2	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
9/8/2024 7:22	67703	WERN_T2	0	0	0	0	0	0	-1.04	-1.02	1	1	0	900	900	0
9/8/2024 7:23	67703	WERN_T2	0	0	0	0	0	0	-1.04	-1.02	1	1	0	900	900	0
9/8/2024 7:23	63801	HEMP_T1	0	0	0	0	0	0	-1.39	-1.37	1	1	0	900	900	0
9/8/2024 7:23	63804	HEMP_T1	1	1	0	8.3	5.5	-2.8	0	0	0	0	0	0	0	0
9/8/2024 7:24	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 7:26	64204	KINZ_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/8/2024 7:26	64201	KINZ_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/8/2024 7:26	63801	HEMP_T1	0	0	0	0	0	0	-1.39	-1.37	1	1	0	900	900	0
9/8/2024 7:26	10206	ALLE_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/8/2024 7:26	10102	ALLE_T2	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
9/8/2024 7:26	64203	KINZ_T1	0	0	0	0	0	0	0.13	0.06	0	0	0	0	0	0
9/8/2024 7:26	63804	HEMP_T1	1	1	0	8.3	5.5	-2.8	0	0	0	0	0	0	0	0
9/8/2024 7:26	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 7:26	62102	ELAN_T1	0	0	0	0	0	0	0.42	0.57	0	0	0	0	0	0
9/8/2024 7:28	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 7:28	62604	ENGL_T1	0	0	0	0	0	0	-0.56	-0.48	0	0	0	0	0	0
9/8/2024 7:30	63501	HEID_TBK1-2	48	47	-1	0.69	0.65	-0.04	0.41	0.39	0	0	0	0	0	0
9/8/2024 7:33	64503	LAVI_T1	0	0	0	0	0	0	-0.94	-0.91	1	1	0	1200	1200	0
9/8/2024 7:34	15202	SFAR_T1	0	0	0	0	0	0	-0.65	-0.64	1	1	0	1200	1200	0
9/8/2024 7:34	50501	MECH_T1	4	4	0	1.1	0.95	-0.15	0	0	0	0	0	0	0	0
9/8/2024 7:34	50502	MECH_T1	1	1	0	2	1.8	-0.2	-0.58	-0.56	2	2	0	2100	2100	0
9/8/2024 7:34	64903	MILL_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
9/8/2024 7:36	44903	SCOT_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
9/8/2024 7:38	45902	AUBU_T1	12	10	-2	0.13	0.13	0	0	0	0	0	0	0	0	0
9/8/2024 7:38	45901	AUBU_T1	0	0	0	0	0	0	1.01	1.01	0	0	0	0	0	0
9/8/2024 7:41	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 7:41	45902	AUBU_T1	12	10	-2	0.13	0.13	0	0	0	0	0	0	0	0	0
9/8/2024 7:41	45901	AUBU_T1	0	0	0	0	0	0	1.01	1.01	0	0	0	0	0	0
9/8/2024 7:43	62105	ELAN_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
9/8/2024 7:43	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 7:45	11301	EMMA_T1	0	0	0	0	0	0	-0.98	-0.95	0	0	0	0	0	0
9/8/2024 7:48	48301	ORWI_T1	2	2	0	5	4.9	-0.1	-0.04	-0.04	0	0	0	0	0	0
9/8/2024 7:48	13303	ORVI_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
9/8/2024 7:51	15103	UPHA_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
9/8/2024 7:52	13303	ORVI_T1	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
9/8/2024 7:52	45901	AUBU_T1	0	0	0	0	0	0	1.01	1	0	0	0	0	0	0
9/8/2024 7:52	45902	AUBU_T1	9	1	-8	0.11	0.8	0.69	0	0	0	0	0	0	0	0
9/8/2024 7:53	67503	WEWI_T2	1	1	0	8.3	8.3	0	-0.38	-0.33	0	0	0	0	0	0
9/8/2024 7:57	45901	AUBU_T1	0	0	0	0	0	0	1.01	1	0	0	0	0	0	0
9/8/2024 7:57	45902	AUBU_T1	9	1	-8	0.11	0.8	0.69	0	0	0	0	0	0	0	0
9/8/2024 7:58	44801	EDAN_T2	19	20	1	0.21	0.17	-0.04	-3.61	-3.64	0	0	0	0	0	0
9/8/2024 7:59	40101	HUNT_T2	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
9/8/2024 7:59	61503	EPET_T1	0	0	0	0	0	0	-0.56	-0.59	0	0	0	0	0	0
9/8/2024 8:00	61501	EPET_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
9/8/2024 8:00	61504	EPET_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
9/8/2024 8:01	42902	MIDD_T2	15	10	-5	0.19	0.16	-0.03	-0.73	-0.73	0	0	0	0	0	0
9/8/2024 8:01	42903	MIDD_T2	2	2	0	2	1.85	-0.15	0	0	0	0	0	0	0	0
9/8/2024 8:02	65604	QVIL_T2	0	0	0	0	0	0	0.25	0.28	0	0	0	0	0	0
9/8/2024 8:03	13303	ORVI_T1	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
9/8/2024 8:03	62607	ENGL_T1	0	0	0	0	0	0	-1.13	-1.15	1	1	0	300	300	0
9/8/2024 8:06	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 8:07	44201	POIN_T1	670	591	-79	0.44	0.38	-0.06	-2.16	-2.13	1	1	0	1200	1200	0
9/8/2024 8:07	47401	PENS_T1	0	2	2	0	0.4	0.4	0.05	0.15	0	0	0	0	0	0
9/8/2024 8:07	47403	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 8:12	53501	EVIL_T2	23	6	-17	0.33	0.65	0.32	-0.01	-0.01	0	2	2	0	1200	1200
9/8/2024 8:12	53502	EVIL_T2	64	5	-59	0.15	0.24	0.09	0	0	0	0	0	0	0	0
9/8/2024 8:13	10504	CRAC_T1	0	0	0	0	0	0	-0.69	-0.64	0	0	0	0	0	0
9/8/2024 8:13	53502	EVIL_T2	64	5	-59	0.15	0.24	0.09	0	0	0	0	0	0	0	0
9/8/2024 8:13	53501	EVIL_T2	23	6	-17	0.33	0.65	0.32	-0.01	-0.01	0	1	1	0	600	600
9/8/2024 8:14	12006	HATF_T1	0	1	1	0	0	0	0.49	0.52	0	0	0	0	0	0
9/8/2024 8:14	12005	HATF_T1	4	3	-1	0.25	0.13	-0.12	0	0	0	0	0	0	0	0
9/8/2024 8:14	53502	EVIL_T2	64	5	-59	0.15	0.24	0.09	-0.11	-0.02	0	0	0	0	0	0
9/8/2024 8:14	53501	EVIL_T2	23	6	-17	0.33	0.65	0.32	0	0	0	0	0	0	0	0
9/8/2024 8:15	11301	EMMA_T1	0	0	0	0	0	0	-0.94	-0.93	0	0	0	0	0	0
9/8/2024 8:15	53501	EVIL_T2	6	5	-1	0.65	0.58	-0.07	-0.01	-0.01	0	1	1	0	600	600
9/8/2024 8:15	11303	EMMA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 8:15	53502	EVIL_T2	5	2	-3	0.24	0.2	-0.04	-0.11	-0.02	0	0	0	0	0	0
9/8/2024 8:16	53501	EVIL_T2	6	5	-1	0.65	0.58	-0.07	-0.01	-0.01	0	1	1	0	600	600
9/8/2024 8:16	53502	EVIL_T2	5	2	-3	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
9/8/2024 8:18	14201	EALL_T1	0	0	0	0	0	0	0.42	0.38	0	0	0	0	0	0
9/8/2024 8:18	26401	INOR_T1	1	1	0	8.9	10	1.1	0	0	0	0	0	0	0	0
9/8/2024 8:18	26402	INOR_T1	0	0	0	0	0	0	-0.49	-0.47	0	0	0	0	0	0
9/8/2024 8:19	46102	MACI_T1	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
9/8/2024 8:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 8:21	41902	REED_T1	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
9/8/2024 8:24	67605	WARW_T1	10	11	1	0.3	0.43	0.13	0	0	0	0	0	0	0	0
9/8/2024 8:24	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 8:25	62601	ENGL_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
9/8/2024 8:27	10701	CATA_T2	0	0	0	0	0	0	-0.81	-0.8	1	1	0	1200	1200	0
9/8/2024 8:27	10702	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/8/2024 8:28	63501	HEID_TBK1-2	47	47	0	0.79	0.71	-0.08	0.89	1.03	0	0	0	0	0	0
9/8/2024 8:28	22002	BOHE_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
9/8/2024 8:28	22003	BOHE_T1	1	2	1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
9/8/2024 8:33	58202	NEWV_T1	8	8	0	0.28	0.26	-0.02	-0.13	-0.07	0	0	0	0	0	0
9/8/2024 8:37	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 8:39	43201	MVIL_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
9/8/2024 8:41	11203	ELHE_T1	0	0	0	0	0	0	0.77	0.8	0	0	0	0	0	0
9/8/2024 8:42	59202	THOM_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/8/2024 8:44	59202	THOM_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/8/2024 8:47	40602	PIGR_T1	0	0	0	0	0	0	-0.19	-0.17	1	1	0	600	600	0
9/8/2024 8:48	42901	MIDD_T2	2	3	1	0.15	0.37	0.22	0	0	0	0	0	0	0	0
9/8/2024 8:48	28805	LAKE_T1	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
9/8/2024 8:48	28803	LAKE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 8:48	42902	MIDD_T2	17	39	22	0.18	0.22	0.04	-0.73	-0.72	0	0	0	0	0	0
9/8/2024 8:48	42903	MIDD_T2	2	2	0	2	2.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 8:49	42903	MIDD_T2	2	2	0	2	2.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 8:49	42902	MIDD_T2	17	39	22	0.18	0.22	0.04	-0.73	-0.72	0	0	0	0	0	0
9/8/2024 8:49	42901	MIDD_T2	2	3	1	0.15	0.37	0.22	0	0	0	0	0	0	0	0
9/8/2024 8:49	46101	MACI_T2	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
9/8/2024 8:51	21705	SUBU_T1	1	1	0	6.1	5.8	-0.3	0	0	0	0	0	0	0	0
9/8/2024 8:51	21701	SUBU_T1	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
9/8/2024 8:51	21703	SUBU_T1	0	0	0	0	0	0	-0.63	-0.61	0	0	0	0	0	0
9/8/2024 8:52	44301	BEAV_T2	0	1	1	0	0.1	0.1	0.1	0.01	0	0	0	0	0	0
9/8/2024 8:52	45402	WBLO_T2	1	1	0	1.2	1.2	0	-1.21	-1.21	1	1	0	900	900	0
9/8/2024 8:52	47403	PENS_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/8/2024 8:52	47401	PENS_T1	1	2	1	0.1	0.25	0.15	0.45	0.4	0	0	0	0	0	0
9/8/2024 8:52	44302	BEAV_T2	3	31	28	0.2	0.26	0.06	0	0	0	0	0	0	0	0
9/8/2024 8:53	26001	WDAM_T1	0	0	0	0	0	0	-0.56	-0.7	0	0	0	0	0	0
9/8/2024 8:53	26002	WDAM_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/8/2024 8:55	60101	COCA_T1	0	1	1	0	0.1	0.1	0.44	0.32	0	0	0	0	0	0
9/8/2024 8:56	60101	COCA_T1	0	1	1	0	0.1	0.1	0.44	0.32	0	0	0	0	0	0
9/8/2024 8:57	60101	COCA_T1	0	1	1	0	0.1	0.1	0.22	0.16	0	0	0	0	0	0
9/8/2024 8:58	60101	COCA_T1	0	1	1	0	0.1	0.1	0.22	0.16	0	0	0	0	0	0
9/8/2024 8:58	54506	ENOL_T2	0	0	0	0	0	0	-0.13	-0.1	1	1	0	600	600	0
9/8/2024 8:58	45902	AUBU_T1	1	2	1	1.3	1.15	-0.15	-0.53	-0.52	0	0	0	0	0	0
9/8/2024 9:03	12801	MICK_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
9/8/2024 9:05	42201	SHEN_T2	1	1	0	0.1	0.1	0	0.35	0.35	0	0	0	0	0	0
9/8/2024 9:06	66504	SMAN_T2	0	0	0	0	0	0	-0.66	-0.63	0	0	0	0	0	0
9/8/2024 9:08	66504	SMAN_T2	0	0	0	0	0	0	-1.31	-1.27	0	0	0	0	0	0
9/8/2024 9:08	20403	ASHF_T2	0	1	1	0	0.2	0.2	0.09	0.07	0	0	0	0	0	0
9/8/2024 9:09	41902	REED_T1	0	0	0	0	0	0	0.75	0.84	0	0	0	0	0	0
9/8/2024 9:10	22002	BOHE_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
9/8/2024 9:10	22003	BOHE_T1	6	216	210	0.48	0.26	-0.22	0	0	0	0	0	0	0	0
9/8/2024 9:11	20403	ASHF_T2	0	1	1	0	0.2	0.2	0.09	0.07	0	0	0	0	0	0
9/8/2024 9:12	20403	ASHF_T2	0	1	1	0	0.2	0.2	0.09	0.07	0	0	0	0	0	0
9/8/2024 9:13	11904	ETEX_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
9/8/2024 9:13	20403	ASHF_T2	0	1	1	0	0.2	0.2	0.09	0.07	0	0	0	0	0	0
9/8/2024 9:13	11901	ETEX_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
9/8/2024 9:13	58202	NEWV_T1	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
9/8/2024 9:16	40101	HUNT_T2	0	0	0	0	0	0	-0.78	-0.75	0	0	0	0	0	0
9/8/2024 9:18	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 9:21	21705	SUBU_T1	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
9/8/2024 9:21	21701	SUBU_T1	1	1	0	6	6.1	0.1	0.59	0.58	0	0	0	0	0	0
9/8/2024 9:23	67605	WARW_T1	14	14	0	0.41	0.43	0.02	-2.48	-2.5	0	0	0	0	0	0
9/8/2024 9:23	64605	LEOL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 9:23	64602	LEOL_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
9/8/2024 9:23	40601	PIGR_T1	0	1	1	0	0.1	0.1	-0.81	-0.81	0	0	0	0	0	0
9/8/2024 9:24	45902	AUBU_T1	2	5	3	1.15	0.54	-0.61	-0.5	-0.48	0	0	0	0	0	0
9/8/2024 9:25	22003	BOHE_T1	208	227	19	0.25	0.33	0.08	0	0	0	0	0	0	0	0
9/8/2024 9:25	22002	BOHE_T1	0	0	0	0	0	0	0.25	0.28	0	0	0	0	0	0
9/8/2024 9:28	53902	HALI_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
9/8/2024 9:28	12005	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/8/2024 9:28	62102	ELAN_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/8/2024 9:28	62101	ELAN_T1	0	0	0	0	0	0	1.4	1.4	0	0	0	0	0	0
9/8/2024 9:28	12002	HATF_T1	0	0	0	0	0	0	-0.28	-0.28	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/8/2024 9:28	12006	HATF_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/8/2024 9:28	53901	HALI_T2	1	1	0	0.6	0.7	0.1	-0.85	-0.85	0	0	0	0	0	0
9/8/2024 9:28	12007	HATF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 9:28	53903	HALI_T2	2	2	0	0.95	0.8	-0.15	0	0	0	0	0	0	0	0
9/8/2024 9:29	47001	HUGH_T2	3	3	0	8	8.4	0.4	-0.87	-0.92	0	0	0	0	0	0
9/8/2024 9:31	16402	MOPO_T1	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
9/8/2024 9:32	65802	RTWN_T2	1	1	0	0.1	0.4	0.3	-0.2	-0.21	0	0	0	0	0	0
9/8/2024 9:32	16402	MOPO_T1	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
9/8/2024 9:33	64305	LINC_T1	0	2	2	0	0.4	0.4	-0.65	-0.61	0	0	0	0	0	0
9/8/2024 9:34	13503	MCMI_T2	1	135	134	0.5	0.26	-0.24	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 9:35	48302	ORWI_T2	2	2	0	1	0.7	-0.3	-0.12	-0.11	0	0	0	0	0	0
9/8/2024 9:35	57401	SPAN_T1	0	0	0	0	0	0	-0.68	-0.7	1	1	0	600	600	0
9/8/2024 9:35	42201	SHEN_T2	1	2	1	0.1	0.1	0	0.37	0.37	0	0	0	0	0	0
9/8/2024 9:36	57401	SPAN_T1	0	0	0	0	0	0	-0.68	-0.7	1	1	0	600	600	0
9/8/2024 9:36	48302	ORWI_T2	2	2	0	1	0.7	-0.3	-0.11	-0.08	0	0	0	0	0	0
9/8/2024 9:36	15203	SFAR_T2	4	6	2	0.33	0.47	0.14	-1.28	-1.27	0	0	0	0	0	0
9/8/2024 9:37	15203	SFAR_T2	4	6	2	0.33	0.47	0.14	-1.28	-1.27	0	0	0	0	0	0
9/8/2024 9:38	67503	WEWI_T2	1	1	0	7.7	7.7	0	-0.31	-0.31	0	0	0	0	0	0
9/8/2024 9:38	67502	WEWI_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
9/8/2024 9:38	15203	SFAR_T2	4	6	2	0.33	0.47	0.14	-1.28	-1.27	0	0	0	0	0	0
9/8/2024 9:39	57401	SPAN_T1	0	0	0	0	0	0	-0.7	-0.68	1	1	0	600	600	0
9/8/2024 9:39	16103	BING_T2	0	0	0	0	0	0	-0.96	-0.95	2	2	0	1500	1500	0
9/8/2024 9:39	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 9:39	16101	BING_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
9/8/2024 9:42	22003	BOHE_T1	194	229	35	0.23	0.34	0.11	-0.2	-0.2	0	0	0	0	0	0
9/8/2024 9:46	52101	MEIS_T1	2	2	0	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
9/8/2024 9:46	52102	MEIS_T1	260	208	-52	0.43	0.5	0.07	0	0	0	0	0	0	0	0
9/8/2024 9:47	44702	MUNC_T2	17	7	-10	0.15	0.17	0.02	0	0	0	0	0	0	0	0
9/8/2024 9:47	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 9:47	44701	MUNC_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/8/2024 9:51	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 9:51	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 9:51	40101	HUNT_T2	0	0	0	0	0	0	-0.76	-0.73	0	0	0	0	0	0
9/8/2024 9:52	42801	SELI_T1	0	0	0	0	0	0	-1.4	-1.36	1	1	0	1200	1200	0
9/8/2024 9:53	66502	SMAN_T2	0	1	1	0	0.1	0.1	-0.22	-0.21	0	0	0	0	0	0
9/8/2024 9:53	66505	SMAN_T2	0	0	0	0	0	0	0.32	0.33	1	1	0	900	900	0
9/8/2024 9:53	66504	SMAN_T2	0	0	0	0	0	0	-0.61	-0.59	0	0	0	0	0	0
9/8/2024 9:54	40501	CRES_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
9/8/2024 9:54	40502	CRES_T2	20	18	-2	0.22	0.28	0.06	-0.47	-0.46	0	0	0	0	0	0
9/8/2024 9:55	42302	MOWR_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
9/8/2024 9:58	45902	AUBU_T1	5	5	0	0.52	0.7	0.18	-0.92	-1.01	0	0	0	0	0	0
9/8/2024 9:58	48302	ORWI_T2	2	2	0	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
9/8/2024 9:59	59201	THOM_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/8/2024 9:59	59202	THOM_T1	4	6	2	0.25	0.28	0.03	0	0	0	0	0	0	0	0
9/8/2024 10:00	15203	SFAR_T2	5	6	1	0.54	0.38	-0.16	-1.27	-1.24	0	0	0	0	0	0
9/8/2024 10:00	65802	RTWN_T2	1	1	0	0.4	0.2	-0.2	-0.21	-0.2	0	0	0	0	0	0
9/8/2024 10:00	40505	CRES_T1	1	1	0	0.1	0.3	0.2	0.44	0.45	0	0	0	0	0	0
9/8/2024 10:00	67502	WEWI_T2	1	4	3	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
9/8/2024 10:00	52403	GRPA_T2	135	140	5	1.24	1.4	0.16	-0.9	-0.9	0	0	0	0	0	0
9/8/2024 10:00	46802	HEPB_T1	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
9/8/2024 10:00	59001	MIFF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 10:00	67503	WEWI_T2	1	1	0	7.6	7.9	0.3	-0.31	-0.3	0	0	0	0	0	0
9/8/2024 10:00	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
9/8/2024 10:00	56501	ROCK_T2	0	1	1	0	0.5	0.5	-0.12	-0.08	0	0	0	0	0	0
9/8/2024 10:00	13503	MCMI_T2	135	405	270	0.26	0.85	0.59	-0.92	-0.91	0	0	0	0	0	0
9/8/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.98	-0.95	0	0	0	0	0	0
9/8/2024 10:00	57401	SPAN_T1	0	0	0	0	0	0	-2.03	-2.05	3	3	0	1800	1800	0
9/8/2024 10:00	16301	ALPA_T1	0	1	1	0	1.5	1.5	0.04	-0.01	0	0	0	0	0	0
9/8/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	0.14	0.19	0	0	0	0	0	0
9/8/2024 10:01	53501	EVIL_T2	8	8	0	0.28	0.39	0.11	-0.01	-0.01	2	2	0	1200	1200	0
9/8/2024 10:01	53502	EVIL_T2	4	3	-1	0.28	0.17	-0.11	0	0	0	0	0	0	0	0
9/8/2024 10:02	13502	MCMI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/8/2024 10:05	13704	SCHN_T2	0	0	0	0	0	0	-0.38	-0.35	0	0	0	0	0	0
9/8/2024 10:06	13503	MCMI_T2	135	405	270	0.26	0.85	0.59	-0.92	-0.91	0	0	0	0	0	0
9/8/2024 10:07	51201	MTON_T1	0	1	1	0	0.2	0.2	0.02	0	0	0	0	0	0	0
9/8/2024 10:08	57401	SPAN_T1	0	0	0	0	0	0	-0.68	-0.49	1	1	0	600	600	0
9/8/2024 10:08	15203	SFAR_T2	5	6	1	0.54	0.38	-0.16	-2.48	-2.43	0	0	0	0	0	0
9/8/2024 10:08	40502	CRES_T2	14	15	1	0.26	0.31	0.05	-0.46	-0.45	0	0	0	0	0	0
9/8/2024 10:08	40501	CRES_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
9/8/2024 10:09	20403	ASHF_T2	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
9/8/2024 10:09	67503	WEWI_T2	1	1	0	7.6	7.9	0.3	-0.3	-0.29	0	0	0	0	0	0
9/8/2024 10:09	67502	WEWI_T2	1	4	3	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
9/8/2024 10:09	13704	SCHN_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
9/8/2024 10:10	67503	WEWI_T2	1	1	0	7.6	7.9	0.3	-0.3	-0.29	0	0	0	0	0	0
9/8/2024 10:10	60801	BUCK_T1	3	1	-2	0.2	0.4	0.2	-0.22	-0.19	0	0	0	0	0	0
9/8/2024 10:10	62105	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/8/2024 10:10	16102	BING_T2	0	5	5	0	0.22	0.22	0	0	0	0	0	0	0	0
9/8/2024 10:10	16103	BING_T2	0	1	1	0	0.1	0.1	-0.96	-0.94	2	2	0	1500	1500	0
9/8/2024 10:10	62106	ELAN_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
9/8/2024 10:10	20403	ASHF_T2	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
9/8/2024 10:10	16101	BING_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
9/8/2024 10:10	67502	WEWI_T2	1	4	3	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
9/8/2024 10:10	62102	ELAN_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/8/2024 10:11	42501	ALTA_T2	0	0	0	0	0	0	0.18	0.16	1	1	0	600	600	0
9/8/2024 10:11	59202	THOM_T1	4	14	10	0.25	0.25	0	0	0	0	0	0	0	0	0
9/8/2024 10:11	59201	THOM_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/8/2024 10:11	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 10:13	11901	ETEX_T2	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
9/8/2024 10:13	63501	HEID_T8K1-2	47	47	0	0.9	0.86	-0.04	0.47	0.53	0	0	0	0	0	0
9/8/2024 10:13	11904	ETEX_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
9/8/2024 10:14	59202	THOM_T1	4	14	10	0.25	0.25	0	0	0	0	0	0	0	0	0
9/8/2024 10:14	64305	LINC_T1	2	1	-1	0.4	0.9	0.5	-0.65	-0.64	0	0	0	0	0	0
9/8/2024 10:14	59201	THOM_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/8/2024 10:14	22003	BOHE_T1	207	200	-7	0.28	0.27	-0.01	-0.2	-0.2	0	0	0	0	0	0
9/8/2024 10:14	10801	CHHI_T1	0	3	3	0	0.13	0.13	-0.89	-0.84	1	1	0	900	900	0
9/8/2024 10:15	28704	HAML_T2	1	1	0	0.2	0.3	0.1	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 10:15	28701	HAML_T2	2	3	1	0.7	0.43	-0.27	0	0	0	0	0	0	0	0
9/8/2024 10:16	46803	HEPB_T2	1	1	0	0.2	0.2	0	0.31	0.32	0	0	0	0	0	0
9/8/2024 10:16	53502	EVIL_T2	2	3	1	0.1	0.17	0.07	0.14	0.13	0	0	0	0	0	0
9/8/2024 10:16	12801	MICK_T1	0	0	0	0	0	0	-1.1	-1.01	1	1	0	600	600	0
9/8/2024 10:16	53501	EVIL_T2	7	8	1	0.43	0.34	-0.09	0	0	0	0	0	0	0	0
9/8/2024 10:16	46801	HEPB_T2	2	2	0	1.15	1.2	0.05	0.56	0.59	0	0	0	0	0	0
9/8/2024 10:16	12803	MICK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 10:17	42902	MIDD_T2	8	10	2	0.18	0.17	-0.01	-1.29	-1.31	0	0	0	0	0	0
9/8/2024 10:17	65005	NEFF_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/8/2024 10:17	63403	HONY_T2	0	0	0	0	0	0	-0.64	-0.66	1	1	0	600	600	0
9/8/2024 10:17	42903	MIDD_T2	4	4	0	1	1.18	0.18	0	0	0	0	0	0	0	0
9/8/2024 10:17	11904	ETEX_T2	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
9/8/2024 10:17	42901	MIDD_T2	3	5	2	0.63	0.42	-0.21	0	0	0	0	0	0	0	0
9/8/2024 10:17	65001	NEFF_T2	0	0	0	0	0	0	-1.25	-1.25	1	1	0	1200	1200	0
9/8/2024 10:17	11901	ETEX_T2	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
9/8/2024 10:18	42901	MIDD_T2	3	5	2	0.63	0.42	-0.21	0	0	0	0	0	0	0	0
9/8/2024 10:18	44201	POIN_T1	368	381	13	0.35	0.31	-0.04	-1.99	-2	1	1	0	1200	1200	0
9/8/2024 10:18	42903	MIDD_T2	4	4	0	1	1.18	0.18	0	0	0	0	0	0	0	0
9/8/2024 10:18	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 10:18	64501	LAVI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 10:18	64503	LAVI_T1	0	0	0	0	0	0	-0.81	-0.81	1	1	0	1200	1200	0
9/8/2024 10:18	16402	MOPO_T1	0	1	1	0	0	0	-0.08	-0.07	0	0	0	0	0	0
9/8/2024 10:18	42902	MIDD_T2	8	10	2	0.18	0.17	-0.01	-0.64	-0.66	0	0	0	0	0	0
9/8/2024 10:18	63501	HEID_T8K1-2	47	47	0	1.02	0.91	-0.11	0.47	0.53	0	0	0	0	0	0
9/8/2024 10:19	42902	MIDD_T2	8	10	2	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
9/8/2024 10:19	12302	LANA_T2	0	1	1	0	0	0	-1.67	-1.66	2	2	0	1500	1500	0
9/8/2024 10:19	16402	MOPO_T1	0	1	1	0	0	0	-0.08	-0.07	0	0	0	0	0	0
9/8/2024 10:19	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 10:19	43201	MVIL_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
9/8/2024 10:19	65604	QVIL_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
9/8/2024 10:19	42903	MIDD_T2	4	4	0	1	1.18	0.18	-0.01	0.01	0	0	0	0	0	0
9/8/2024 10:19	42901	MIDD_T2	3	5	2	0.63	0.42	-0.21	0	0	0	0	0	0	0	0
9/8/2024 10:20	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 10:20	13905	SEID_T1	0	1	1	0	0.2	0.2	-1.01	-0.97	1	1	0	1200	1200	0
9/8/2024 10:20	13901	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 10:20	57205	ROSS_T1	1	1	0	1.2	1.6	0.4	-0.95	-0.93	1	1	0	900	900	0
9/8/2024 10:21	44202	POIN_T2	1	1	0	0.4	0.5	0.1	-1.9	-1.88	2	2	0	2400	2400	0
9/8/2024 10:21	66701	STRA_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/8/2024 10:21	66703	STRA_T1	0	1	1	0	0.2	0.2	-0.45	-0.45	0	0	0	0	0	0
9/8/2024 10:21	44201	POIN_T1	368	381	13	0.35	0.31	-0.04	-6	-5.81	3	3	0	3600	3600	0
9/8/2024 10:22	65205	PRIN_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
9/8/2024 10:22	44201	POIN_T1	368	381	13	0.35	0.31	-0.04	-4	-3.87	2	2	0	2400	2400	0
9/8/2024 10:22	67801	WLAN_T1	0	0	0	0	0	0	0.13	0.04	0	0	0	0	0	0
9/8/2024 10:22	42201	SHEN_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
9/8/2024 10:23	42601	TUSC_T1	0	0	0	0	0	0	0.44	0.58	1	1	0	1200	1200	0
9/8/2024 10:23	42201	SHEN_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
9/8/2024 10:23	44201	POIN_T1	368	381	13	0.35	0.31	-0.04	-2	-1.94	1	1	0	1200	1200	0
9/8/2024 10:24	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.38	0.39	0	0	0	0	0	0
9/8/2024 10:24	44302	BEAV_T2	14	17	3	0.46	0.69	0.23	0	0	0	0	0	0	0	0
9/8/2024 10:24	11601	CEAL_T1	1	1	0	0.2	0.4	0.2	0	0	1	1	0	1200	1200	0
9/8/2024 10:24	22001	BOHE_T1	0	1	1	0	0.1	0.1	0.27	0.29	0	0	0	0	0	0
9/8/2024 10:24	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 10:24	44301	BEAV_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
9/8/2024 10:24	22003	BOHE_T1	155	207	52	0.2	0.28	0.08	0	0	0	0	0	0	0	0
9/8/2024 10:24	67605	WARW_T1	17	16	-1	0.56	0.44	-0.12	-1.19	-1.18	0	0	0	0	0	0
9/8/2024 10:24	60101	COCA_T1	2	3	1	0.2	0.33	0.13	0.26	0.32	0	0	0	0	0	0
9/8/2024 10:25	42201	SHEN_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
9/8/2024 10:25	64203	KINZ_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
9/8/2024 10:25	60101	COCA_T1	2	3	1	0.2	0.33	0.13	0.52	0.64	0	0	0	0	0	0
9/8/2024 10:25	59101	WALK_T2	0	0	0	0	0	0	-0.5	-0.56	0	0	0	0	0	0
9/8/2024 10:25	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 10:25	64204	KINZ_T1	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
9/8/2024 10:26	67605	WARW_T1	17	16	-1	0.56	0.44	-0.12	-2.39	-2.36	0	0	0	0	0	0
9/8/2024 10:26	62105	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 10:26	60101	COCA_T1	2	3	1	0.2	0.33	0.13	0.26	0.32	0	0	0	0	0	0
9/8/2024 10:26	67603	WARW_T1	0	1	1	0	0.1	0.1	-0.07	-0.05	0	0	0	0	0	0
9/8/2024 10:26	62102	ELAN_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/8/2024 10:26	62101	ELAN_T1	0	0	0	0	0	0	1.38	1.44	0	0	0	0	0	0
9/8/2024 10:27	16103	BING_T2	0	1	1	0	0.1	0.1	-0.94	-0.89	2	2	0	1500	1500	0
9/8/2024 10:27	16102	BING_T2	1	5	4	0.1	0.34	0.24	0	0	0	0	0	0	0	0
9/8/2024 10:28	60101	COCA_T1	2	3	1	0.2	0.33	0.13	0.26	0.32	0	0	0	0	0	0
9/8/2024 10:28	63302	GREE_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
9/8/2024 10:29	60101	COCA_T1	2	3	1	0.2	0.33	0.13	0.26	0.32	0	0	0	0	0	0
9/8/2024 10:30	63401	HONY_T1	0	0	0	0	0	0	-0.45	-0.45	1	1	0	600	600	0
9/8/2024 10:30	42902	MIDD_T2	10	10	0	0.17	0.19	0.02	-0.66	-0.64	0	0	0	0	0	0
9/8/2024 10:30	42903	MIDD_T2	3	5	2	1.43	1.1	-0.33	0	0	0	0	0	0	0	0
9/8/2024 10:30	42901	MIDD_T2	5	6	1	0.4	0.4	0	0	0	0	0	0	0	0	0
9/8/2024 10:31	64902	MILL_T2	0	0	0	0	0	0	-0.7	-0.69	1	1	0	900	900	0
9/8/2024 10:31	63401	HONY_T1	0	0	0	0	0	0	-0.45	-0.45	1	1	0	600	600	0
9/8/2024 10:32	42903	MIDD_T2	3	5	2	1.43	1.1	-0.33	0.01	0.15	0	0	0	0	0	0
9/8/2024 10:32	42902	MIDD_T2	10	10	0	0.17	0.19	0.02	0	0	0	0	0	0	0	0
9/8/2024 10:32	42901	MIDD_T2	5	6	1	0.4	0.4	0	0	0	0	0	0	0	0	0
9/8/2024 10:33	58202	NEWV_T1	8	9	1	0.29	0.31	0.02	-0.07	-0.07	0	0	0	0	0	0
9/8/2024 10:33	58201	NEWV_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/8/2024 10:34	42901	MIDD_T2	5	6	1	0.4	0.4	0	0	0	0	0	0	0	0	0
9/8/2024 10:34	42902	MIDD_T2	10	10	0	0.17	0.19	0.02	-0.66	-0.64	0	0	0	0	0	0
9/8/2024 10:34	54201	PENN_T1	7	9	2	0.74	0.71	-0.03	-1.02	-1.01	0	0	0	0	0	0
9/8/2024 10:34	54203	PENN_T1	18	18	0	0.42	0.66	0.24	0	0	0	0	0	0	0	0
9/8/2024 10:34	42903	MIDD_T2	3	5	2	1.43	1.1	-0.33	0	0	0	0	0	0	0	0
9/8/2024 10:35	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 10:35	66502	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/8/2024 10:35	66505	SMAN_T2	0	0	0	0	0	0	0.27	0.52	1	1	0	900	900	0
9/8/2024 10:35	56501	ROCK_T2	1	1	0	0.6	0.2	-0.4	-0.03	-0.02	0	0	0	0	0	0
9/8/2024 10:36	42901	MIDD_T2	5	6	1	0.4	0.4	0	0	0	0	0	0	0	0	0
9/8/2024 10:36	42902	MIDD_T2	10	10	0	0.17	0.19	0.02	-0.64	-0.65	0	0	0	0	0	0
9/8/2024 10:36	42903	MIDD_T2	3	5	2	1.43	1.1	-0.33	0	0	0	0	0	0	0	0
9/8/2024 10:37	56501	ROCK_T2	1	1	0	0.6	0.2	-0.4	-0.02	0	0	0	0	0	0	0
9/8/2024 10:38	56501	ROCK_T2	1	1	0	0.6	0.2	-0.4	-0.02	0	0	0	0	0	0	0
9/8/2024 10:38	66504	SMAN_T2	0	1	1	0	0.1	0.1	-1.14	-1.07	0	0	0	0	0	0
9/8/2024 10:38	41902	REED_T1	0	0	0	0	0	0	0.85	0.84	0	0	0	0	0	0
9/8/2024 10:38	26001	WDAM_T1	0	2	2	0	0.2	0.2	-0.68	-0.66	0	0	0	0	0	0
9/8/2024 10:38	67402	WAKE_T2	0	0	0	0	0	0	0.19	0.16	0	0	0	0	0	0
9/8/2024 10:38	26002	WDAM_T1	1	2	1	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
9/8/2024 10:38	66502	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/8/2024 10:39	67503	WEWI_T2	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
9/8/2024 10:39	67502	WEWI_T2	4	3	-1	0.5	0.7	0.2	-1.41	-1.48	1	1	0	900	900	0
9/8/2024 10:40	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.57	-0.53	0	0	0	0	0	0
9/8/2024 10:40	15702	TANN_T2	1	1	0	0.3	0.1	-0.2	-0.36	-0.35	0	0	0	0	0	0
9/8/2024 10:40	10903	COOP_T2	1	2	1	1.5	0.7	-0.8	-0.31	-0.25	1	1	0	600	600	0
9/8/2024 10:40	67605	WARW_T1	16	15	-1	0.44	0.41	-0.03	-2.36	-2.35	0	0	0	0	0	0
9/8/2024 10:40	57401	SPAN_T1	0	0	0	0	0	0	-0.56	-0.62	1	1	0	600	600	0
9/8/2024 10:40	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
9/8/2024 10:40	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 10:40	10901	COOP_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
9/8/2024 10:40	66502	SMAN_T2	0	1	1	0	0.3	0.3	-0.16	-0.2	0	0	0	0	0	0
9/8/2024 10:40	45902	AUBU_T1	4	4	0	1.05	0.93	-0.12	-0.9	-0.91	0	0	0	0	0	0
9/8/2024 10:41	67605	WARW_T1	16	15	-1	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
9/8/2024 10:41	51304	WIND_T2	0	1	1	0	0.3	0.3	-0.19	-0.14	0	0	0	0	0	0
9/8/2024 10:41	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 10:42	20103	AVOC_T1	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
9/8/2024 10:42	63801	HEMP_T1	0	2	2	0	0.3	0.3	-1.19	-0.99	1	1	0	900	900	0
9/8/2024 10:42	51304	WIND_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/8/2024 10:42	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 10:42	20106	AVOC_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
9/8/2024 10:42	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
9/8/2024 10:42	20105	AVOC_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/8/2024 10:42	61001	DONV_T1	1	1	0	1.1	0.5	-0.6	-0.03	-0.02	0	0	0	0	0	0
9/8/2024 10:43	67605	WARW_T1	16	15	-1	0.44	0.41	-0.03	-1.18	-1.17	0	0	0	0	0	0
9/8/2024 10:43	45902	AUBU_T1	4	4	0	1.05	0.93	-0.12	-0.9	-0.91	0	0	0	0	0	0
9/8/2024 10:43	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 10:43	60101	COCA_T1	3	3	0	0.23	0.37	0.14	0.64	0.57	0	0	0	0	0	0
9/8/2024 10:44	25402	LAHA_T2	1	3	2	0.1	0.13	0.03	-0.86	-0.86	0	0	0	0	0	0
9/8/2024 10:44	52403	GRPA_T2	139	153	14	1.4	1.64	0.24	-0.87	-0.78	0	0	0	0	0	0
9/8/2024 10:45	25503	MADI_T1	8	49	41	0.16	0.21	0.05	-0.92	-0.91	0	0	0	0	0	0
9/8/2024 10:45	52403	GRPA_T2	151	152	1	1.65	1.49	-0.16	-0.87	-0.78	0	0	0	0	0	0
9/8/2024 10:45	53301	GRAT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 10:45	25501	MADI_T1	3	3	0	1.03	1.67	0.64	0	0	0	0	0	0	0	0
9/8/2024 10:46	28704	HAML_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/8/2024 10:46	28702	HAML_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
9/8/2024 10:46	28701	HAML_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
9/8/2024 10:47	64603	LEOL_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
9/8/2024 10:47	45901	AUBU_T1	0	0	0	0	0	0	1.04	1.01	0	0	0	0	0	0
9/8/2024 10:47	64605	LEOL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/8/2024 10:47	41002	LAUR_T2	8	13	5	0.4	0.33	-0.07	0.07	0.08	0	0	0	0	0	0
9/8/2024 10:47	45902	AUBU_T1	4	4	0	0.85	1	0.15	0	0	0	0	0	0	0	0
9/8/2024 10:47	63501	HEID_TBK1-2	47	47	0	1.05	0.84	-0.21	0.51	0.57	0	0	0	0	0	0
9/8/2024 10:47	41001	LAUR_T2	29	52	23	0.23	0.23	0	0	0	0	0	0	0	0	0
9/8/2024 10:48	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 10:48	52403	GRPA_T2	151	152	1	1.65	1.49	-0.16	-0.87	-0.78	0	0	0	0	0	0
9/8/2024 10:48	65503	MOJO_T2	0	3	3	0	0.53	0.53	-0.2	-0.49	0	1	1	0	900	900
9/8/2024 10:50	67602	WARW_T2	0	0	0	0	0	0	0.78	0.82	0	0	0	0	0	0
9/8/2024 10:51	65503	MOJO_T2	0	3	3	0	0.53	0.53	-0.49	-1.1	0	1	1	0	900	900
9/8/2024 10:52	45302	WBER_T2	0	0	0	0	0	0	0.73	0.79	0	0	0	0	0	0
9/8/2024 10:52	55101	WERT_T1	0	0	0	0	0	0	-1.45	-1.4	2	2	0	1500	1500	0
9/8/2024 10:53	14702	TREX_T2	1	1	0	0.4	0.4	0	0.52	0.54	0	0	0	0	0	0
9/8/2024 10:55	44801	EDAN_T2	22	32	10	0.23	0.25	0.02	-1.69	-1.67	0	0	0	0	0	0
9/8/2024 10:55	61803	EELI_T2	0	0	0	0	0	0	0.21	0.28	1	1	0	600	600	0
9/8/2024 10:56	45302	WBER_T2	0	0	0	0	0	0	0.73	0.79	0	0	0	0	0	0
9/8/2024 10:56	48302	ORWI_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/8/2024 10:57	44801	EDAN_T2	22	32	10	0.23	0.25	0.02	-3.39	-3.35	0	0	0	0	0	0
9/8/2024 10:57	40702	FFLD_T1	6	9	3	0.15	0.21	0.06	0	0	0	0	0	0	0	0
9/8/2024 10:57	40701	FFLD_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/8/2024 10:57	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 10:58	45902	AUBU_T1	4	4	0	0.85	1	0.15	-0.45	-0.46	0	0	0	0	0	0
9/8/2024 10:58	46401	FLEM_T2	95	184	89	0.22	0.27	0.05	-0.44	-0.44	0	0	0	0	0	0
9/8/2024 10:58	46402	FLEM_T2	148	296	148	0.26	0.34	0.08	0	0	0	0	0	0	0	0
9/8/2024 10:59	45901	AUBU_T1	0	0	0	0	0	0	1.01	1	0	0	0	0	0	0
9/8/2024 10:59	45902	AUBU_T1	4	4	0	0.85	1	0.15	0	0	0	0	0	0	0	0
9/8/2024 11:00	46401	FLEM_T2	107	189	82	0.23	0.28	0.05	0	0	0	0	0	0	0	0
9/8/2024 11:00	61501	EPET_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
9/8/2024 11:00	46402	FLEM_T2	167	311	144	0.26	0.33	0.07	-0.4	-0.37	0	0	0	0	0	0
9/8/2024 11:00	61504	EPET_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
9/8/2024 11:01	46402	FLEM_T2	167	311	144	0.26	0.33	0.07	-0.4	-0.37	0	0	0	0	0	0
9/8/2024 11:01	46801	HEPB_T2	2	2	0	1.25	1.35	0.1	0.6	0.62	0	0	0	0	0	0
9/8/2024 11:01	67805	WLAN_T1	0	0	0	0	0	0	-1.61	-1.49	0	0	0	0	0	0
9/8/2024 11:01	46101	MACI_T2	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
9/8/2024 11:01	46803	HEPB_T2	1	4	3	0.1	0.43	0.33	0	0	0	0	0	0	0	0
9/8/2024 11:01	46401	FLEM_T2	107	189	82	0.23	0.28	0.05	0	0	0	0	0	0	0	0
9/8/2024 11:02	58401	MORO_T1	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
9/8/2024 11:02	57401	SPAN_T1	0	0	0	0	0	0	-0.62	-0.66	1	1	0	600	600	0
9/8/2024 11:02	58402	MORO_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/8/2024 11:03	63501	HEID_TBK1-2	47	47	0	0.85	0.89	0.04	0.57	0.56	0	0	0	0	0	0
9/8/2024 11:03	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 11:03	67605	WARW_T1	13	15	2	0.44	0.55	0.11	0	0	0	0	0	0	0	0
9/8/2024 11:03	67603	WARW_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/8/2024 11:04	51202	MTON_T2	1	1	0	0.2	0.9	0.7	-1.07	-1.06	1	1	0	1200	1200	0
9/8/2024 11:05	58402	MORO_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/8/2024 11:05	58401	MORO_T1	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
9/8/2024 11:06	13704	SCHN_T2	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
9/8/2024 11:06	51202	MTON_T2	1	1	0	0.2	0.9	0.7	-1.07	-1.06	1	1	0	1200	1200	0
9/8/2024 11:08	67805	WLAN_T1	0	0	0	0	0	0	-1.49	-1.56	0	0	0	0	0	0
9/8/2024 11:08	40601	PIGR_T1	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
9/8/2024 11:08	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 11:08	40603	PIGR_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/8/2024 11:10	59201	THOM_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
9/8/2024 11:10	63801	HEMP_T1	2	6	4	0.3	0.28	-0.02	-1.1	-1.13	1	1	0	900	900	0
9/8/2024 11:10	63804	HEMP_T1	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
9/8/2024 11:10	59202	THOM_T1	14	37	23	0.34	0.44	0.1	0	0	0	0	0	0	0	0
9/8/2024 11:11	61801	EELI_T2	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
9/8/2024 11:11	59002	MIFF_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 11:11	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 11:11	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 11:11	54504	ENOL_T2	0	1	1	0	0.8	0.8	-1.73	-1.75	1	1	0	600	600	0
9/8/2024 11:11	46004	BERW_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
9/8/2024 11:11	59003	MIFF_T1	0	0	0	0	0	0	0.2	0.24	0	0	0	0	0	0
9/8/2024 11:12	64204	KINZ_T1	3	5	2	0.8	0.44	-0.36	0	0	0	0	0	0	0	0
9/8/2024 11:12	64203	KINZ_T1	1	2	1	0.2	0.2	0	0.17	0.21	0	0	0	0	0	0
9/8/2024 11:12	64201	KINZ_T1	2	1	-1	0.65	0.9	0.25	0	0	0	0	0	0	0	0
9/8/2024 11:12	64202	KINZ_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
9/8/2024 11:13	40101	HUNT_T2	0	1	1	0	0.3	0.3	-0.72	-0.71	0	0	0	0	0	0
9/8/2024 11:13	20106	AVOC_T1	0	3	3	0	0.67	0.67	0	0	0	0	0	0	0	0
9/8/2024 11:13	20103	AVOC_T1	0	0	0	0	0	0	-0.17	-0.14	0	0	0	0	0	0
9/8/2024 11:13	61801	EELI_T2	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
9/8/2024 11:15	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 11:15	21206	ECAR_T2	1	1	0	7.5	7.5	0	1.28	1.29	0	0	0	0	0	0
9/8/2024 11:15	50105	HARR_T3	6	6	0	7.48	7.38	-0.1	0	0	0	0	0	0	0	0
9/8/2024 11:15	50107	HARR_T3	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
9/8/2024 11:15	50201	HARR_T3	2	2	0	0.5	0.65	0.15	-1.11	-1.12	1	1	0	1200	1200	0
9/8/2024 11:15	45501	DERR_T2	0	3	3	0	0.13	0.13	-0.56	-0.51	2	2	0	1800	1800	0
9/8/2024 11:16	50201	HARR_T3	2	2	0	0.5	0.65	0.15	-1.11	-1.12	1	1	0	1200	1200	0
9/8/2024 11:16	50107	HARR_T3	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
9/8/2024 11:16	63501	HEID_TBK1-2	47	47	0	0.99	0.7	-0.29	1.11	1.15	0	0	0	0	0	0
9/8/2024 11:16	50105	HARR_T3	6	6	0	7.48	7.38	-0.1	0	0	0	0	0	0	0	0
9/8/2024 11:17	43201	MVIL_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
9/8/2024 11:18	60502	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 11:18	60504	NMAN_T2	2	3	1	0.75	0.87	0.12	0	0	0	0	0	0	0	0
9/8/2024 11:18	61801	EELI_T2	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
9/8/2024 11:19	46504	LOHA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/8/2024 11:19	65804	RTWN_T1	0	0	0	0	0	0	0.01	0.02	1	1	0	600	600	0
9/8/2024 11:19	46501	LOHA_T1	0	0	0	0	0	0	-0.08	-0.07	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/8/2024 11:19	58202	NEWV_T1	2	5	3	0.2	0.18	-0.02	0.02	0.06	0	0	0	0	0	0
9/8/2024 11:19	46506	LOHA_T1	3	3	0	4.63	4.53	-0.1	0	0	0	0	0	0	0	0
9/8/2024 11:20	64902	MILL_T2	0	0	0	0	0	0	-1.32	-1.3	1	1	0	900	900	0
9/8/2024 11:20	44703	MUNC_T2	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
9/8/2024 11:20	44701	MUNC_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/8/2024 11:20	44702	MUNC_T2	6	6	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
9/8/2024 11:21	44701	MUNC_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/8/2024 11:21	42802	SELI_T1	0	0	0	0	0	0	-0.52	-0.42	0	0	0	0	0	0
9/8/2024 11:21	44702	MUNC_T2	6	6	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
9/8/2024 11:21	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 11:21	12102	SALL_T2	1	2	1	1	0.55	-0.45	0.18	0.19	0	0	0	0	0	0
9/8/2024 11:21	42801	SELI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/8/2024 11:21	12101	SALL_T2	6	7	1	1.03	1.26	0.23	0	0	0	0	0	0	0	0
9/8/2024 11:23	15001	BLMO_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/8/2024 11:23	14102	TRUM_T2	1	2	1	1.5	1.2	-0.3	0.42	0.41	1	1	0	600	600	0
9/8/2024 11:23	14103	TRUM_T2	38	24	-14	0.2	0.24	0.04	0	0	0	0	0	0	0	0
9/8/2024 11:24	42802	SELI_T1	0	0	0	0	0	0	-0.52	-0.42	0	0	0	0	0	0
9/8/2024 11:24	53102	WTWN_T1	5	2	-3	0.16	0.1	-0.06	-0.51	-0.5	0	0	0	0	0	0
9/8/2024 11:24	20401	ASHF_T2	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
9/8/2024 11:24	10602	BLGL_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
9/8/2024 11:24	66703	STRA_T1	0	1	1	0	0.3	0.3	-0.22	-0.15	0	0	0	0	0	0
9/8/2024 11:24	42801	SELI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/8/2024 11:24	66701	STRA_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/8/2024 11:24	53101	WTWN_T1	11	9	-2	0.56	0.66	0.1	0	0	0	0	0	0	0	0
9/8/2024 11:25	59202	THOM_T1	31	53	22	0.38	0.42	0.04	0	0	0	0	0	0	0	0
9/8/2024 11:25	59201	THOM_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
9/8/2024 11:26	14204	EALL_T2	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
9/8/2024 11:26	42802	SELI_T1	0	0	0	0	0	0	-0.52	-0.42	0	0	0	0	0	0
9/8/2024 11:26	42801	SELI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/8/2024 11:27	53101	WTWN_T1	11	9	-2	0.56	0.66	0.1	0	0	0	0	0	0	0	0
9/8/2024 11:27	45901	AUBU_T1	0	0	0	0	0	0	1.02	0.99	0	0	0	0	0	0
9/8/2024 11:27	45902	AUBU_T1	4	4	0	1	1.35	0.35	0	0	0	0	0	0	0	0
9/8/2024 11:27	46002	BERW_T2	0	0	0	0	0	0	-1.43	-1.43	1	1	0	900	900	0
9/8/2024 11:27	53102	WTWN_T1	5	2	-3	0.16	0.1	-0.06	-0.51	-0.5	0	0	0	0	0	0
9/8/2024 11:28	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 11:28	62102	ELAN_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/8/2024 11:28	62105	ELAN_T1	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
9/8/2024 11:29	59202	THOM_T1	31	53	22	0.38	0.42	0.04	0	0	0	0	0	0	0	0
9/8/2024 11:29	40101	HUNT_T2	0	1	1	0	0.3	0.3	-1.41	-1.41	0	0	0	0	0	0
9/8/2024 11:29	59201	THOM_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
9/8/2024 11:30	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 11:30	62105	ELAN_T1	2	4	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
9/8/2024 11:30	62102	ELAN_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/8/2024 11:31	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
9/8/2024 11:32	12601	MACA_T1	1	2	1	1.3	1.05	-0.25	0	0	0	0	0	0	0	0
9/8/2024 11:32	12605	MACA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/8/2024 11:32	12604	MACA_T1	1	2	1	0.3	0.5	0.2	0.35	0.34	0	0	0	0	0	0
9/8/2024 11:32	40101	HUNT_T2	1	1	0	0.3	0.4	0.1	-0.71	-0.7	0	0	0	0	0	0
9/8/2024 11:32	26803	JAFR_T1	0	0	0	0	0	0	-0.21	-0.24	1	1	0	900	900	0
9/8/2024 11:33	25503	MADI_T1	35	72	37	0.19	0.24	0.05	-0.9	-0.88	0	0	0	0	0	0
9/8/2024 11:33	40101	HUNT_T2	1	1	0	0.3	0.4	0.1	-0.71	-0.7	0	0	0	0	0	0
9/8/2024 11:33	25502	MADI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/8/2024 11:33	25501	MADI_T1	3	3	0	1.47	1.2	-0.27	0	0	0	0	0	0	0	0
9/8/2024 11:35	43202	MVIL_T2	0	0	0	0	0	0	-0.7	-0.73	0	0	0	0	0	0
9/8/2024 11:35	66703	STRA_T1	1	1	0	0.1	0.3	0.2	-0.22	-0.15	0	0	0	0	0	0
9/8/2024 11:35	43201	MVIL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
9/8/2024 11:35	56501	ROCK_T2	2	2	0	1.1	0.8	-0.3	0.03	0.02	0	0	0	0	0	0
9/8/2024 11:35	66701	STRA_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/8/2024 11:36	65604	QVIL_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
9/8/2024 11:36	24204	PROV_T3	1	2	1	5.9	3	-2.9	0	0	0	0	0	0	0	0
9/8/2024 11:36	65602	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 11:36	60301	TWVA_T2	0	0	0	0	0	0	-3.38	-3.34	2	2	0	1800	1800	0
9/8/2024 11:36	23002	SAJO_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/8/2024 11:36	43201	MVIL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
9/8/2024 11:36	42002	MNVL_T2	1	1	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
9/8/2024 11:36	23001	SAJO_T1	0	0	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0
9/8/2024 11:36	65205	PRIN_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/8/2024 11:36	24201	PROV_T3	1	2	1	6.5	3.1	-3.4	-1.41	-1.38	1	1	0	1200	1200	0
9/8/2024 11:36	43202	MVIL_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
9/8/2024 11:36	42001	MNVL_T2	31	53	22	0.43	0.42	-0.01	-0.26	-0.23	0	0	0	0	0	0
9/8/2024 11:37	15801	WGAT_T1	3	3	0	0.77	0.67	-0.1	0	0	0	0	0	0	0	0
9/8/2024 11:37	42802	SELI_T1	0	0	0	0	0	0	-0.42	-0.48	0	0	0	0	0	0
9/8/2024 11:37	15803	WGAT_T1	0	0	0	0	0	0	0.84	0.8	0	0	0	0	0	0
9/8/2024 11:38	21705	SUBU_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
9/8/2024 11:38	21704	SUBU_T1	0	0	0	0	0	0	-2.56	-2.56	2	2	0	2400	2400	0
9/8/2024 11:38	21701	SUBU_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
9/8/2024 11:39	67703	WERN_T2	0	1	1	0	0.5	0.5	-0.84	-0.84	1	1	0	900	900	0
9/8/2024 11:39	46004	BERW_T2	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
9/8/2024 11:39	67702	WERN_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/8/2024 11:40	67402	WAKE_T2	0	0	0	0	0	0	-0.39	-0.39	1	1	0	600	600	0
9/8/2024 11:40	67401	WAKE_T2	5	5	0	0.28	0.52	0.24	0	0	0	0	0	0	0	0
9/8/2024 11:41	61502	EPET_T1	1	1	0	0.1	0.2	0.1	-1.19	-1.22	0	0	0	0	0	0
9/8/2024 11:41	61501	EPET_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
9/8/2024 11:41	61506	EPET_T2	0	0	0	0	0	0	-1.16	-1.18	1	1	0	900	900	0
9/8/2024 11:43	24104	EHAZ_T1	0	1	1	0	0.1	0.1	2.17	2.18	1	1	0	1200	1200	0
9/8/2024 11:43	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 11:43	24105	EHAZ_T1	4	4	0	6.83	6.73	-0.1	0	0	0	0	0	0	0	0
9/8/2024 11:44	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 11:45	59202	THOM_T1	41	28	-13	0.4	0.43	0.03	0	0	0	0	0	0	0	0
9/8/2024 11:45	40101	HUNT_T2	1	1	0	0.3	0.4	0.1	-0.7	-0.69	0	0	0	0	0	0
9/8/2024 11:45	59201	THOM_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
9/8/2024 11:45	40702	FFLD_T1	1	0	-1	0.1	0	-0.1	-0.86	-0.78	0	0	0	0	0	0
9/8/2024 11:47	12701	MACU_T1	0	1	1	0	0	0	0.17	0.14	0	0	0	0	0	0
9/8/2024 11:48	60504	NMAN_T2	3	3	0	0.87	0.9	0.03	0	0	0	0	0	0	0	0
9/8/2024 11:48	43201	MVIL_T2	0	1	1	0	0.7	0.7	-1.13	-1.29	0	0	0	0	0	0
9/8/2024 11:48	60502	NMAN_T2	1	0	-1	0.2	0	-0.2	-0.34	-0.36	0	0	0	0	0	0
9/8/2024 11:50	12701	MACU_T1	0	1	1	0	0	0	0.09	0.07	0	0	0	0	0	0
9/8/2024 11:51	50107	HARR_T3	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
9/8/2024 11:51	12701	MACU_T1	0	1	1	0	0	0	0.07	0.09	0	0	0	0	0	0
9/8/2024 11:51	50105	HARR_T3	6	6	0	7.38	7.4	0.02	0	0	0	0	0	0	0	0
9/8/2024 11:51	66701	STRA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/8/2024 11:51	50201	HARR_T3	2	4	2	0.65	0.48	-0.17	-1.11	-1.07	1	1	0	1200	1200	0
9/8/2024 11:51	57401	SPAN_T1	0	0	0	0	0	0	-0.56	-0.44	1	1	0	600	600	0
9/8/2024 11:51	57403	SPAN_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 11:51	66703	STRA_T1	1	1	0	0.3	0.3	0	-0.21	-0.18	0	0	0	0	0	0
9/8/2024 11:54	64202	KINZ_T1	3	3	0	0.63	0.43	-0.2	0	0	0	0	0	0	0	0
9/8/2024 11:54	14705	TREX_T1	0	0	0	0	0	0	-0.28	-0.25	0	0	0	0	0	0
9/8/2024 11:54	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 11:54	43102	SMIL_T2	2	4	2	0.1	0.15	0.05	-0.79	-0.78	1	1	0	600	600	0
9/8/2024 11:54	43101	SMIL_T2	2	2	0	0.15	1.1	0.95	0	0	0	0	0	0	0	0
9/8/2024 11:54	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 11:54	64203	KINZ_T1	1	1	0	0.5	0.2	-0.3	0.19	0.16	0	0	0	0	0	0
9/8/2024 11:54	57401	SPAN_T1	0	0	0	0	0	0	-0.44	-0.37	1	1	0	600	600	0
9/8/2024 11:54	43108	SMIL_T2	0	0	0	0	0	0	-0.85	-0.82	1	1	0	1200	1200	0
9/8/2024 11:54	64204	KINZ_T1	6	4	-2	0.55	0.68	0.13	0	0	0	0	0	0	0	0
9/8/2024 11:54	64201	KINZ_T1	4	2	-2	0.35	0.6	0.25	0	0	0	0	0	0	0	0
9/8/2024 11:54	43103	SMIL_T2	5	3	-2	0.62	1.2	0.58	0	0	0	0	0	0	0	0
9/8/2024 11:54	57403	SPAN_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 11:55	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 11:55	46001	BERW_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
9/8/2024 11:55	46005	BERW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 11:56	45902	AUBU_T1	4	6	2	1.28	1.02	-0.26	-0.43	-0.48	0	0	0	0	0	0
9/8/2024 11:56	45402	WILO_T2	1	2	1	0.1	0.75	0.65	-1.18	-1.17	1	1	0	900	900	0
9/8/2024 11:57	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 11:57	24702	FLND_T2	0	1	1	0	0.1	0.1	0	0	1	1	0	1200	1200	0
9/8/2024 11:57	20603	GRWO_T2	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
9/8/2024 11:57	20601	GRWO_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 11:57	11601	CEAL_T1	0	1	1	0	0.9	0.9	0	0	1	1	0	1200	1200	0
9/8/2024 11:58	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 11:59	14203	EALL_T1	1	4	3	0.1	0.7	0.6	1.93	1.96	0	0	0	0	0	0
9/8/2024 11:59	23403	HONE_T1	1	4	3	0.1	0.4	0.3	-0.75	-0.74	0	0	0	0	0	0
9/8/2024 11:59	48302	ORWI_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
9/8/2024 12:00	20603	GRWO_T2	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
9/8/2024 12:00	20601	GRWO_T2	4	0	-4	0.73	0	-0.73	0	0	0	0	0	0	0	0
9/8/2024 12:00	40101	HUNT_T2	1	1	0	0.4	0.5	0.1	-0.69	-0.69	0	0	0	0	0	0
9/8/2024 12:00	45802	HEGI_T2	48	48	0	1.36	2.74	1.38	0.3	0.19	1	1	0	900	900	0
9/8/2024 12:01	23401	HONE_T2	3	2	-1	0.3	1	0.7	-0.17	-0.18	0	0	0	0	0	0
9/8/2024 12:01	21204	ECAR_T2	1	1	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
9/8/2024 12:01	65401	MARI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/8/2024 12:01	65402	MARI_T1	1	1	0	0.4	0.2	-0.2	0.32	0.32	0	0	0	0	0	0
9/8/2024 12:01	21206	ECAR_T2	1	1	0	7.9	8.2	0.3	0	0	0	0	0	0	0	0
9/8/2024 12:04	44701	MUNC_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
9/8/2024 12:04	58401	MORO_T1	0	1	1	0	0.1	0.1	-0.51	-0.5	0	0	0	0	0	0
9/8/2024 12:04	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 12:05	12704	MACU_T1	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
9/8/2024 12:05	12701	MACU_T1	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
9/8/2024 12:06	67401	WAKE_T2	5	3	-2	0.36	0.27	-0.09	0	0	0	0	0	0	0	0
9/8/2024 12:06	66703	STRA_T1	1	0	-1	0.3	0	-0.3	-0.18	-0.17	0	0	0	0	0	0
9/8/2024 12:06	66701	STRA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/8/2024 12:06	21206	ECAR_T2	1	1	0	7.9	8.2	0.3	1.31	1.27	0	0	0	0	0	0
9/8/2024 12:06	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 12:06	67402	WAKE_T2	0	0	0	0	0	0	-0.4	-0.35	1	1	0	600	600	0
9/8/2024 12:06	58401	MORO_T1	0	1	1	0	0.1	0.1	-0.51	-0.5	0	0	0	0	0	0
9/8/2024 12:07	13604	RICH_T2	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
9/8/2024 12:07	42802	SELI_T1	0	0	0	0	0	0	-0.37	-0.43	0	0	0	0	0	0
9/8/2024 12:07	57401	SPAN_T1	0	0	0	0	0	0	-0.37	-0.37	1	1	0	600	600	0
9/8/2024 12:08	24201	PROV_T3	2	4	2	3.1	1.6	-1.5	-1.37	-1.35	1	1	0	1200	1200	0
9/8/2024 12:08	42801	SELI_T1	0	0	0	0	0	0	-1.29	-1.3	1	1	0	1200	1200	0
9/8/2024 12:08	24204	PROV_T3	2	2	0	3	2.95	-0.05	0	0	0	0	0	0	0	0
9/8/2024 12:09	15702	TANN_T2	2	2	0	0.15	0.5	0.35	-0.77	-1.01	0	0	0	0	0	0
9/8/2024 12:09	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
9/8/2024 12:09	45602	WOOL_T1	1	3	2	0.2	0.23	0.03	0.6	0.57	0	0	0	0	0	0
9/8/2024 12:09	67401	WAKE_T2	5	3	-2	0.36	0.27	-0.09	-1.07	-1.05	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/8/2024 12:10	42802	SELI_T1	0	0	0	0	0	0	-0.37	-0.43	0	0	0	0	0	0
9/8/2024 12:11	42802	SELI_T1	0	0	0	0	0	0	-0.37	-0.43	0	0	0	0	0	0
9/8/2024 12:11	45602	WOOL_T1	1	3	2	0.2	0.23	0.03	0.6	0.57	0	0	0	0	0	0
9/8/2024 12:11	62105	ELAN_T1	2	1	-1	0.15	0.2	0.05	0.47	0.47	0	0	0	0	0	0
9/8/2024 12:11	62102	ELAN_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
9/8/2024 12:12	11903	ETEX_T1	1	1	0	0.9	0.8	-0.1	0.42	0.39	0	0	0	0	0	0
9/8/2024 12:12	54506	ENOL_T2	0	0	0	0	0	0	0.07	0.05	1	1	0	600	600	0
9/8/2024 12:12	54505	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/8/2024 12:12	54504	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 12:12	29301	DAPP_T1	1	1	0	9.3	9.6	0.3	0	0	1	1	0	600	600	0
9/8/2024 12:14	46401	FLEM_T2	40	72	32	0.29	0.25	-0.04	-0.41	-0.41	0	0	0	0	0	0
9/8/2024 12:14	46402	FLEM_T2	81	202	121	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
9/8/2024 12:15	62102	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/8/2024 12:15	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 12:15	62105	ELAN_T1	1	2	1	0.2	0.2	0	0.47	0.47	0	0	0	0	0	0
9/8/2024 12:17	64902	MILL_T2	0	0	0	0	0	0	-1.29	-1.26	1	1	0	900	900	0
9/8/2024 12:17	64503	LAVI_T1	0	0	0	0	0	0	-1.36	-1.46	2	2	0	2400	2400	0
9/8/2024 12:18	63403	HONY_T2	0	0	0	0	0	0	-0.61	-0.59	1	1	0	600	600	0
9/8/2024 12:19	15604	NSTR_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
9/8/2024 12:20	43201	MVIL_T2	0	1	1	0	0.5	0.5	-1.31	-1.3	0	0	0	0	0	0
9/8/2024 12:21	64503	LAVI_T1	0	0	0	0	0	0	-0.73	-0.7	1	1	0	1200	1200	0
9/8/2024 12:21	14103	TRUM_T2	12	2	-10	0.23	0.5	0.27	0	0	0	0	0	0	0	0
9/8/2024 12:21	14102	TRUM_T2	2	2	0	1	0.55	-0.45	0	0	0	0	0	0	0	0
9/8/2024 12:21	27302	PARR_T1	0	0	0	0	0	0	0.1	0.01	0	0	0	0	0	0
9/8/2024 12:21	14101	TRUM_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
9/8/2024 12:22	66701	STRA_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/8/2024 12:22	15604	NSTR_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
9/8/2024 12:22	15101	UPHA_T1	2	2	0	1.1	0.85	-0.25	0.62	0.64	0	0	0	0	0	0
9/8/2024 12:22	15102	UPHA_T1	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/8/2024 12:22	66703	STRA_T1	0	1	1	0	0.1	0.1	-0.17	-0.19	0	0	0	0	0	0
9/8/2024 12:23	13901	SEID_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/8/2024 12:23	14702	TREX_T2	0	1	1	0	0.1	0.1	0.52	0.57	0	0	0	0	0	0
9/8/2024 12:23	13905	SEID_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/8/2024 12:23	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 12:23	45402	WBLO_T2	2	1	-1	0.75	0.3	-0.45	-1.16	-1.19	1	1	0	900	900	0
9/8/2024 12:24	10205	ALLE_T3	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/8/2024 12:24	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 12:25	15703	TANN_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
9/8/2024 12:25	15702	TANN_T2	2	2	0	0.5	0.2	-0.3	-0.34	-0.34	0	0	0	0	0	0
9/8/2024 12:25	59102	WALK_T2	1	2	1	0.1	0.45	0.35	0.35	0.37	0	0	0	0	0	0
9/8/2024 12:25	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 12:26	52101	MEIS_T1	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
9/8/2024 12:26	52102	MEIS_T1	9	7	-2	0.58	0.71	0.13	0	0	0	0	0	0	0	0
9/8/2024 12:28	10805	CHHI_T2	6	7	1	1.6	1.44	-0.16	-1.08	-1.25	0	0	0	0	0	0
9/8/2024 12:30	60904	DONG_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
9/8/2024 12:30	60902	DONG_T2	0	0	0	0	0	0	0.97	1.02	0	0	0	0	0	0
9/8/2024 12:30	60901	DONG_T2	2	4	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
9/8/2024 12:31	24102	EHAZ_T1	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
9/8/2024 12:31	24104	EHAZ_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
9/8/2024 12:31	28805	LAKE_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
9/8/2024 12:31	24105	EHAZ_T1	4	4	0	6.8	5.93	-0.87	0	0	0	0	0	0	0	0
9/8/2024 12:32	13503	MCMI_T2	0	21	21	0	0.52	0.52	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 12:33	65903	SAKR_T2	0	0	0	0	0	0	-1.33	-1.31	3	3	0	2100	2100	0
9/8/2024 12:33	65904	SAKR_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
9/8/2024 12:33	65901	SAKR_T2	1	1	0	7.2	7.5	0.3	0	0	0	0	0	0	0	0
9/8/2024 12:34	28805	LAKE_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
9/8/2024 12:34	65601	QVIL_T2	0	0	0	0	0	0	-1.05	-1.09	1	1	0	900	900	0
9/8/2024 12:34	63403	HONY_T2	0	0	0	0	0	0	-0.59	-0.57	1	1	0	600	600	0
9/8/2024 12:35	58402	MORO_T1	0	0	0	0	0	0	0.16	0.22	1	1	0	900	900	0
9/8/2024 12:35	58401	MORO_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/8/2024 12:36	58401	MORO_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/8/2024 12:36	58402	MORO_T1	0	0	0	0	0	0	0.16	0.22	1	1	0	900	900	0
9/8/2024 12:38	66703	STRA_T1	0	1	1	0	0.1	0.1	-0.19	-0.17	0	0	0	0	0	0
9/8/2024 12:38	66701	STRA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/8/2024 12:41	47203	FAXO_T2	0	0	0	0	0	0	-1.43	-1.5	1	1	0	1200	1200	0
9/8/2024 12:42	46005	BERW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/8/2024 12:42	20601	GRWO_T2	0	0	0	0	0	0	0.63	0.67	0	0	0	0	0	0
9/8/2024 12:42	62105	ELAN_T1	1	3	2	0.2	0.17	-0.03	0.46	0.46	0	0	0	0	0	0
9/8/2024 12:42	46001	BERW_T1	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
9/8/2024 12:42	41602	CLEV_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
9/8/2024 12:43	10903	COOP_T2	1	1	0	1.2	1.5	0.3	-0.31	-0.3	1	1	0	600	600	0
9/8/2024 12:43	10901	COOP_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/8/2024 12:44	10705	CATA_T2	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
9/8/2024 12:49	61703	ELIZ_T1	0	0	0	0	0	0	-4.71	-4.74	4	4	0	4200	4200	0
9/8/2024 12:49	61701	ELIZ_T1	2	2	0	2	2.35	0.35	0	0	0	0	0	0	0	0
9/8/2024 12:50	61701	ELIZ_T1	2	2	0	2	2.35	0.35	0	0	0	0	0	0	0	0
9/8/2024 12:50	61703	ELIZ_T1	0	0	0	0	0	0	-2.35	-2.37	2	2	0	2100	2100	0
9/8/2024 12:51	56504	ROCK_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
9/8/2024 12:51	56503	ROCK_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/8/2024 12:51	57205	ROSS_T1	2	2	0	1	1	0	0	0	0	0	0	0	0	0
9/8/2024 12:51	57203	ROSS_T1	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
9/8/2024 12:52	61701	ELIZ_T1	2	2	0	2	2.35	0.35	0	0	0	0	0	0	0	0
9/8/2024 12:52	61703	ELIZ_T1	0	0	0	0	0	0	-2.37	-2.41	2	2	0	2100	2100	0
9/8/2024 12:53	45802	HEGI_T2	48	47	-1	2.04	1.97	-0.07	0.11	0.12	1	1	0	900	900	0
9/8/2024 12:54	44301	BEAV_T2	1	1	0	1.3	1.3	0	0.2	0.22	0	0	0	0	0	0
9/8/2024 12:54	44302	BEAV_T2	10	9	-1	0.63	0.72	0.09	0	0	0	0	0	0	0	0
9/8/2024 12:55	16504	STRO_T1	0	0	0	0	0	0	0.71	0.72	0	0	0	0	0	0
9/8/2024 12:55	10705	CATA_T2	0	1	1	0	0.6	0.6	0.18	0.16	0	0	0	0	0	0
9/8/2024 12:56	16005	DORN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/8/2024 12:56	16007	DORN_T1	0	0	0	0	0	0	0.47	0.51	0	0	0	0	0	0
9/8/2024 12:59	11302	EMMA_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
9/8/2024 12:59	11303	EMMA_T1	3	1	-2	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
9/8/2024 12:59	11301	EMMA_T1	0	0	0	0	0	0	-0.8	-0.74	0	0	0	0	0	0
9/8/2024 13:04	65604	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 13:04	65603	QVIL_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
9/8/2024 13:10	61505	EPET_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
9/8/2024 13:10	61502	EPET_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/8/2024 13:11	57006	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 13:11	57003	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/8/2024 13:11	57002	WHHI_T2	0	0	0	0	0	0	-2.63	-2.62	1	1	0	1200	1200	0
9/8/2024 13:12	64204	KINZ_T1	3	3	0	0.73	0.73	0	0	0	0	0	0	0	0	0
9/8/2024 13:12	61301	EARL_T1	0	0	0	0	0	0	-0.47	-0.45	1	1	0	900	900	0
9/8/2024 13:12	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.21	0.26	0	0	0	0	0	0
9/8/2024 13:12	64201	KINZ_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/8/2024 13:12	61302	EARL_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
9/8/2024 13:14	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 13:22	61402	SOHO_T1	2	2	0	1.05	1.05	0	0.53	0.47	0	0	0	0	0	0
9/8/2024 13:22	58402	MORO_T1	0	0	0	0	0	0	0.2	0.18	1	1	0	900	900	0
9/8/2024 13:24	10801	CHHI_T1	5	7	2	0.82	0.9	0.08	-1.31	-1.29	2	2	0	1500	1500	0
9/8/2024 13:24	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 13:24	10205	ALLE_T3	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 13:26	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 13:28	44801	EDAN_T2	6	11	5	0.48	0.52	0.04	-1.66	-1.67	0	0	0	0	0	0
9/8/2024 13:28	64101	REFR_T1	1	0	-1	0.4	0	-0.4	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 13:29	26803	JAFR_T1	0	1	1	0	0.5	0.5	-0.32	-0.3	1	1	0	900	900	0
9/8/2024 13:29	44801	EDAN_T2	6	11	5	0.48	0.52	0.04	-3.32	-3.34	0	0	0	0	0	0
9/8/2024 13:31	64305	LINC_T1	1	1	0	1.1	1.3	0.2	-0.52	-0.51	0	0	0	0	0	0
9/8/2024 13:33	46501	LOHA_T1	0	0	0	0	0	0	-0.11	-0.09	1	1	0	1200	1200	0
9/8/2024 13:33	46506	LOHA_T1	3	3	0	3.93	4.43	0.5	0	0	0	0	0	0	0	0
9/8/2024 13:33	46503	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 13:33	40101	HUNT_T2	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
9/8/2024 13:34	46503	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 13:34	46506	LOHA_T1	3	3	0	3.93	4.43	0.5	0	0	0	0	0	0	0	0
9/8/2024 13:34	46501	LOHA_T1	0	0	0	0	0	0	-0.11	-0.09	1	1	0	1200	1200	0
9/8/2024 13:35	46506	LOHA_T1	3	3	0	3.93	4.43	0.5	0	0	0	0	0	0	0	0
9/8/2024 13:35	46501	LOHA_T1	0	0	0	0	0	0	-0.11	-0.09	1	1	0	1200	1200	0
9/8/2024 13:35	46503	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 13:36	14802	TREI_T2	0	0	0	0	0	0	0.55	0.59	0	0	0	0	0	0
9/8/2024 13:38	14802	TREI_T2	0	0	0	0	0	0	0.55	0.59	0	0	0	0	0	0
9/8/2024 13:39	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/8/2024 13:39	66504	SMAN_T2	0	0	0	0	0	0	-0.44	-0.41	0	0	0	0	0	0
9/8/2024 13:41	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 13:41	45501	DERR_T2	1	1	0	0.1	0.2	0.1	-0.52	-0.52	2	2	0	1800	1800	0
9/8/2024 13:42	45502	DERR_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
9/8/2024 13:42	11404	FARM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 13:42	45501	DERR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/8/2024 13:42	11405	FARM_T1	1	2	1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
9/8/2024 13:42	11402	FARM_T1	3	3	0	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
9/8/2024 13:43	45501	DERR_T2	1	1	0	0.1	0.2	0.1	-0.52	-0.52	2	2	0	1800	1800	0
9/8/2024 13:44	45501	DERR_T2	1	1	0	0.1	0.2	0.1	-0.52	-0.52	2	2	0	1800	1800	0
9/8/2024 13:44	49804	UNIV_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/8/2024 13:44	49803	UNIV_T1	3	3	0	2.27	2.3	0.03	-2.25	-2.22	0	0	0	0	0	0
9/8/2024 13:45	44801	EDAN_T2	9	8	-1	0.54	0.63	0.09	-1.67	-1.67	0	0	0	0	0	0
9/8/2024 13:45	11405	FARM_T1	2	1	-1	0.65	0.5	-0.15	-0.88	-0.88	1	1	0	1200	1200	0
9/8/2024 13:45	11402	FARM_T1	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/8/2024 13:45	11404	FARM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 13:46	10801	CHHI_T1	6	0	-6	0.57	0.63	0.06	-1.29	-1.3	2	2	0	1500	1500	0
9/8/2024 13:47	28805	LAKE_T1	0	1	1	0	0.2	0.2	-0.18	-0.19	0	0	0	0	0	0
9/8/2024 13:48	53802	MBRG_T2	0	0	0	0	0	0	0.7	0.63	0	0	0	0	0	0
9/8/2024 13:48	53801	MBRG_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/8/2024 13:49	59302	MCAL_T1	1	3	2	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
9/8/2024 13:49	59301	MCAL_T1	7	18	11	0.74	0.45	-0.29	-1.7	-1.67	1	1	0	600	600	0
9/8/2024 13:53	15201	SFAR_T1	0	0	0	0	0	0	-0.43	-0.43	2	2	0	1800	1800	0
9/8/2024 13:58	11202	ELHE_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
9/8/2024 14:00	20601	GRWO_T2	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
9/8/2024 14:01	44801	EDAN_T2	5	7	2	0.7	0.84	0.14	-1.67	-1.67	0	0	0	0	0	0
9/8/2024 14:02	25603	ARRO_T1	1	0	-1	0.1	0	-0.1	-0.01	0.02	0	0	0	0	0	0
9/8/2024 14:03	25603	ARRO_T1	1	0	-1	0.1	0	-0.1	-0.01	0.02	0	0	0	0	0	0
9/8/2024 14:04	40603	PIGR_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/8/2024 14:04	40601	PIGR_T1	3	4	1	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
9/8/2024 14:04	40602	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/8/2024 14:05	54001	SDLE_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/8/2024 14:06	54001	SDLE_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/8/2024 14:06	66504	SMAN_T2	0	1	1	0	0.2	0.2	-0.44	-0.44	0	0	0	0	0	0
9/8/2024 14:08	65205	PRIN_T1	1	3	2	1.5	1.8	0.3	0	0	0	0	0	0	0	0
9/8/2024 14:08	54001	SDLE_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/8/2024 14:09	21701	SUBU_T1	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
9/8/2024 14:09	21703	SUBU_T1	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
9/8/2024 14:09	21705	SUBU_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
9/8/2024 14:10	63804	HEMP_T1	1	2	1	6.1	2.8	-3.3	-0.35	-0.38	0	0	0	0	0	0
9/8/2024 14:10	63801	HEMP_T1	3	7	4	0.4	0.44	0.04	0	0	0	0	0	0	0	0
9/8/2024 14:11	67502	WEWI_T2	4	2	-2	0.4	0.7	0.3	0	0	0	0	0	0	0	0
9/8/2024 14:11	67503	WEWI_T2	1	1	0	7.3	6.9	-0.4	-0.2	-0.13	0	0	0	0	0	0
9/8/2024 14:19	65207	PRIN_T4	1	1	0	0.5	0.6	0.1	0	0	1	1	0	1200	1200	0
9/8/2024 14:19	53501	EVIL_T2	2	2	0	0.35	0.35	0	-0.01	-0.01	1	1	0	600	600	0
9/8/2024 14:19	58402	MORO_T1	0	1	1	0	0.2	0.2	0.16	0.16	1	1	0	900	900	0
9/8/2024 14:19	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 14:22	54001	SDLE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 14:24	60701	BREC_T1	7	5	-2	0.54	0.6	0.06	-0.4	-0.39	1	1	0	600	600	0
9/8/2024 14:24	54001	SDLE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 14:25	67501	WEWI_T1	0	0	0	0	0	0	-1.06	-1.06	1	1	0	600	600	0
9/8/2024 14:26	60701	BREC_T1	7	5	-2	0.54	0.6	0.06	-0.4	-0.39	1	1	0	600	600	0
9/8/2024 14:27	60701	BREC_T1	7	5	-2	0.54	0.6	0.06	-0.8	-0.78	2	2	0	1200	1200	0
9/8/2024 14:28	63804	HEMP_T1	2	2	0	2.8	2.85	0.05	-0.38	-0.33	0	0	0	0	0	0
9/8/2024 14:28	63801	HEMP_T1	7	6	-1	0.41	0.45	0.04	0	0	0	0	0	0	0	0
9/8/2024 14:28	46702	RENO_T1	2	2	0	3.8	3.75	-0.05	-0.23	-0.22	0	0	0	0	0	0
9/8/2024 14:29	60701	BREC_T1	7	5	-2	0.54	0.6	0.06	-0.8	-0.78	2	2	0	1200	1200	0
9/8/2024 14:30	47203	FAXO_T2	0	0	0	0	0	0	-1.51	-1.49	1	1	0	1200	1200	0
9/8/2024 14:33	63404	HONY_T1	4	4	0	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
9/8/2024 14:33	63401	HONY_T1	0	0	0	0	0	0	-0.38	-0.35	1	1	0	600	600	0
9/8/2024 14:34	43202	MVIL_T2	1	2	1	1	0	-1	-0.7	-0.71	0	0	0	0	0	0
9/8/2024 14:34	43201	MVIL_T2	0	0	0	0	0	0	-1.27	-1.27	0	0	0	0	0	0
9/8/2024 14:35	63203	MGTN_T1	0	0	0	0	0	0	-0.83	-0.83	2	2	0	1200	1200	0
9/8/2024 14:43	60801	BUCK_T1	4	4	0	0.3	0.2	-0.1	-0.83	-0.81	1	1	0	600	600	0
9/8/2024 14:48	45802	HEGI_T2	48	48	0	2.01	2.36	0.35	-0.03	-0.16	1	1	0	900	900	0
9/8/2024 14:49	50503	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/8/2024 14:49	43201	MVIL_T2	0	0	0	0	0	0	-1.27	-1.28	0	0	0	0	0	0
9/8/2024 14:49	50501	MECH_T1	4	4	0	0.98	1	0.02	0	0	0	0	0	0	0	0
9/8/2024 14:49	43202	MVIL_T2	2	0	-2	1.5	0	-1.5	0	0	0	0	0	0	0	0
9/8/2024 14:49	50502	MECH_T1	1	1	0	2.1	2.3	0.2	-0.42	-0.37	2	2	0	2100	2100	0
9/8/2024 14:49	50506	MECH_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/8/2024 14:51	54001	SDLE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 14:54	54001	SDLE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 14:55	60701	BREC_T1	5	4	-1	0.6	0.63	0.03	-0.4	-0.41	1	1	0	600	600	0
9/8/2024 14:56	64101	REFR_T1	12	4	-8	0.73	0.78	0.05	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 14:58	60701	BREC_T1	5	4	-1	0.6	0.63	0.03	-0.8	-0.82	2	2	0	1200	1200	0
9/8/2024 14:59	60701	BREC_T1	5	4	-1	0.6	0.63	0.03	-0.4	-0.41	1	1	0	600	600	0
9/8/2024 14:59	10707	CATA_T2	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
9/8/2024 14:59	10705	CATA_T2	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
9/8/2024 15:00	47001	HUGH_T2	3	3	0	8	8.07	0.07	-1.6	-1.59	0	0	0	0	0	0
9/8/2024 15:00	11405	FARM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/8/2024 15:00	11402	FARM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 15:00	40101	HUNT_T2	0	1	1	0	0	0	-0.66	-0.69	0	0	0	0	0	0
9/8/2024 15:00	10705	CATA_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
9/8/2024 15:00	11404	FARM_T1	0	1	1	0	0.2	0.2	-0.53	-0.54	1	1	0	1200	1200	0
9/8/2024 15:00	10701	CATA_T2	0	0	0	0	0	0	-0.67	-0.63	1	1	0	1200	1200	0
9/8/2024 15:02	47802	MOCA_T2	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
9/8/2024 15:07	67901	WNHO_T2	49	33	-16	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
9/8/2024 15:09	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 15:10	53501	EVIL_T2	1	1	0	0.2	0.2	0	-0.01	-0.01	1	1	0	600	600	0
9/8/2024 15:13	48901	FOSP_T2	1	1	0	0.7	0.5	-0.2	-0.39	-0.38	1	1	0	600	600	0
9/8/2024 15:13	48902	FOSP_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/8/2024 15:14	48901	FOSP_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
9/8/2024 15:14	48902	FOSP_T2	1	0	-1	0.2	0	-0.2	-0.24	-0.23	0	0	0	0	0	0
9/8/2024 15:14	64305	LINC_T1	5	2	-3	0.46	0.8	0.34	-0.53	-0.51	0	0	0	0	0	0
9/8/2024 15:15	48902	FOSP_T2	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
9/8/2024 15:15	48901	FOSP_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/8/2024 15:20	40601	PIGR_T1	5	2	-3	0.26	0.15	-0.11	-0.68	-0.73	0	0	0	0	0	0
9/8/2024 15:21	40601	PIGR_T1	5	2	-3	0.26	0.15	-0.11	0	0	0	0	0	0	0	0
9/8/2024 15:21	66902	SHIL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/8/2024 15:21	66901	SHIL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/8/2024 15:21	66903	SHIL_T2	1	1	0	0.8	0.6	-0.2	-1.42	-1.44	0	0	0	0	0	0
9/8/2024 15:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 15:22	66903	SHIL_T2	1	1	0	0.8	0.6	-0.2	-1.42	-1.44	0	0	0	0	0	0
9/8/2024 15:22	66902	SHIL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/8/2024 15:22	58402	MORO_T1	0	0	0	0	0	0	0.17	0.19	1	1	0	900	900	0
9/8/2024 15:22	66901	SHIL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/8/2024 15:23	14303	SUMN_T1	3	3	0	7.5	7.5	0	0	0	0	0	0	0	0	0
9/8/2024 15:23	14308	SUMN_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
9/8/2024 15:24	14702	TREX_T2	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
9/8/2024 15:24	67503	WEWI_T2	1	1	0	6.9	6.5	-0.4	-0.09	-0.14	0	0	0	0	0	0
9/8/2024 15:24	67502	WEWI_T2	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
9/8/2024 15:25	14702	TREX_T2	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
9/8/2024 15:29	64305	LINC_T1	2	1	-1	0.8	1.1	0.3	-0.51	-0.48	0	0	0	0	0	0
9/8/2024 15:29	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 15:30	26402	INOR_T1	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
9/8/2024 15:30	26401	INOR_T1	3	3	0	2.93	2.7	-0.23	0	0	0	0	0	0	0	0
9/8/2024 15:34	22805	HAUT_T2	0	3	3	0	0	0	-0.5	-0.46	1	1	0	1200	1200	0
9/8/2024 15:34	22803	HAUT_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 15:34	46102	MACI_T1	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0	0
9/8/2024 15:36	65901	SAKR_T2	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
9/8/2024 15:36	65904	SAKR_T2	2	0	-2	0.15	0	-0.15	-2.13	-2.16	3	3	0	1500	1500	0
9/8/2024 15:40	21501	CEAV_T2	0	0	0	0	0	0	1.46	1.4	0	0	0	0	0	0
9/8/2024 15:43	61001	DONV_T1	1	1	0	0.5	0.3	-0.2	0.12	0.13	0	0	0	0	0	0
9/8/2024 15:45	65001	NEFF_T2	0	0	0	0	0	0	-1.04	-1.12	1	1	0	1200	1200	0
9/8/2024 15:46	64305	LINC_T1	1	1	0	0.8	0.5	-0.3	-0.48	-0.49	0	0	0	0	0	0
9/8/2024 15:49	46903	MNTG_T2	1	0	-1	0.1	0	-0.1	-0.09	-0.19	1	1	0	600	600	0
9/8/2024 15:53	42201	SHEN_T2	1	1	0	0.6	0.7	0.1	0.46	0.46	0	0	0	0	0	0
9/8/2024 15:54	42201	SHEN_T2	1	1	0	0.6	0.7	0.1	0.46	0.46	0	0	0	0	0	0
9/8/2024 15:55	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 15:55	67901	WNHO_T2	18	12	-6	0.42	0.47	0.05	-0.37	-0.42	1	1	0	900	900	0
9/8/2024 15:57	60701	BREC_T1	3	2	-1	0.5	0.35	-0.15	-0.39	-0.39	1	1	0	600	600	0
9/8/2024 15:58	60701	BREC_T1	3	2	-1	0.5	0.35	-0.15	-0.39	-0.39	1	1	0	600	600	0
9/8/2024 16:00	46203	DANV_T2	1	1	0	6.5	6.5	0	-0.76	-0.76	0	0	0	0	0	0
9/8/2024 16:10	52004	LING_T2	2	2	0	3.9	3.8	-0.1	0.16	0.15	0	0	0	0	0	0
9/8/2024 16:16	48901	FOSP_T2	1	0	-1	0.2	0	-0.2	-0.43	-0.42	1	1	0	600	600	0
9/8/2024 16:23	24603	VARD_T2	3	4	1	0.93	0.75	-0.18	0	0	0	0	0	0	0	0
9/8/2024 16:23	24602	VARD_T2	2	2	0	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
9/8/2024 16:41	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 16:42	52403	GRPA_T2	2	1	-1	1.4	2.5	1.1	-0.09	-0.68	0	0	0	0	0	0
9/8/2024 16:48	61202	REIN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/8/2024 16:48	65502	MOJO_T2	0	0	0	0	0	0	-1.2	-1.24	0	0	0	0	0	0
9/8/2024 16:52	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 16:52	65503	MOJO_T2	0	0	0	0	0	0	-1.05	-1.12	1	1	0	900	900	0
9/8/2024 16:53	61202	REIN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/8/2024 16:54	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/8/2024 16:54	67605	WARW_T1	7	3	-4	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
9/8/2024 16:56	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 16:57	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 16:59	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 17:03	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 17:04	40902	JESH_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/8/2024 17:04	40901	JESH_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
9/8/2024 17:04	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 17:10	24602	VARD_T2	1	2	1	1.5	0.85	-0.65	0	0	0	0	0	0	0	0
9/8/2024 17:10	24603	VARD_T2	2	2	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
9/8/2024 17:13	12001	HATF_T1	0	0	0	0	0	0	0.9	0.95	1	1	0	600	600	0
9/8/2024 17:13	12005	HATF_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/8/2024 17:15	62607	ENGL_T1	0	0	0	0	0	0	-0.96	-0.92	1	1	0	300	300	0
9/8/2024 17:17	46903	MNTG_T2	0	0	0	0	0	0	-0.13	-0.1	1	1	0	600	600	0
9/8/2024 17:18	12005	HATF_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/8/2024 17:18	12001	HATF_T1	0	0	0	0	0	0	0.9	0.95	1	1	0	600	600	0
9/8/2024 17:19	61202	REIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 17:20	12701	MACU_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
9/8/2024 17:20	61202	REIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 17:28	22002	BOHE_T1	0	0	0	0	0	0	0.27	0.32	0	0	0	0	0	0
9/8/2024 17:28	22003	BOHE_T1	19	17	-2	0.15	0.16	0.01	0	0	0	0	0	0	0	0
9/8/2024 17:32	22901	HARW_T1	0	0	0	0	0	0	-0.83	-0.6	1	1	0	1200	1200	0
9/8/2024 17:32	22903	HARW_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
9/8/2024 17:32	22905	HARW_T1	18	14	-4	1.37	0.95	-0.42	0	0	0	0	0	0	0	0
9/8/2024 17:35	57401	SPAN_T1	0	1	1	0	0	0	-0.85	-0.92	1	1	0	600	600	0
9/8/2024 17:35	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 17:39	59101	WALK_T2	0	0	0	0	0	0	2.12	2.55	0	0	0	0	0	0
9/8/2024 17:41	59101	WALK_T2	0	0	0	0	0	0	1.06	1.27	0	0	0	0	0	0
9/8/2024 17:53	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
9/8/2024 17:53	43103	SMIL_T2	0	0	0	0	0	0	-0.83	-0.81	0	0	0	0	0	0
9/8/2024 17:54	43103	SMIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 18:07	45402	WBLO_T2	0	1	1	0	0.5	0.5	-1.13	-1.13	1	1	0	900	900	0
9/8/2024 18:10	66201	SISP_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
9/8/2024 18:14	50201	HARR_T3	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/8/2024 18:14	50105	HARR_T3	6	6	0	8.05	7.98	-0.07	0	0	0	0	0	0	0	0
9/8/2024 18:14	50107	HARR_T3	1	2	1	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
9/8/2024 18:18	13303	ORVI_T1	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
9/8/2024 18:18	12005	HATF_T1	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0	0
9/8/2024 18:18	12006	HATF_T1	0	0	0	0	0	0	0.69	0.74	0	0	0	0	0	0
9/8/2024 18:20	66903	SHIL_T2	0	0	0	0	0	0	-1.52	-1.53	0	0	0	0	0	0
9/8/2024 18:22	13303	ORVI_T1	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
9/8/2024 18:23	66901	SHIL_T2	0	0	0	0	0	0	-1.65	-1.66	1	1	0	1200	1200	0
9/8/2024 18:23	66903	SHIL_T2	0	0	0	0	0	0	-1.53	-1.54	0	0	0	0	0	0
9/8/2024 18:25	20102	AVOC_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
9/8/2024 18:26	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 18:26	60903	DONG_T2	0	0	0	0	0	0	0.84	0.87	1	1	0	600	600	0
9/8/2024 18:27	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 18:28	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 18:29	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 18:31	64101	REFR_T1	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/8/2024 18:39	10205	ALLE_T3	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/8/2024 18:39	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 18:41	40502	CRES_T2	7	5	-2	0.13	0.13	0	-0.42	-0.39	0	0	0	0	0	0
9/8/2024 18:41	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 18:43	28102	TWLA_T2	3	4	1	0.37	0.33	-0.04	0.23	0.22	0	0	0	0	0	0
9/8/2024 18:44	63501	HEID_TBK1-2	49	49	0	1.44	1.22	-0.22	0.45	0.42	0	0	0	0	0	0
9/8/2024 18:59	63305	GREE_T1	7	14	7	0.16	0.26	0.1	0	0	0	0	0	0	0	0
9/8/2024 18:59	63304	GREE_T1	0	0	0	0	0	0	-1.62	-1.65	0	0	0	0	0	0
9/8/2024 19:10	66201	SISP_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
9/8/2024 20:19	53501	EVIL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/8/2024 20:19	53502	EVIL_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
9/8/2024 20:22	16402	MOPO_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
9/8/2024 20:23	16402	MOPO_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
9/8/2024 20:25	44201	POIN_T1	0	55	55	0	0.14	0.14	-1.99	-1.98	1	1	0	1200	1200	0
9/8/2024 20:29	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
9/8/2024 20:31	42903	MIDD_T2	2	2	0	0.95	1.4	0.45	0	0	0	0	0	0	0	0
9/8/2024 20:31	42902	MIDD_T2	0	5	5	0	0.1	0.1	-0.65	-0.68	0	0	0	0	0	0
9/8/2024 20:31	53501	EVIL_T2	1	2	1	0.3	0.4	0.1	-0.01	-0.01	1	1	0	600	600	0
9/8/2024 20:33	42903	MIDD_T2	2	2	0	0.95	1.4	0.45	-0.44	-0.43	0	0	0	0	0	0
9/8/2024 20:33	42902	MIDD_T2	0	5	5	0	0.1	0.1	-0.65	-0.68	0	0	0	0	0	0
9/8/2024 20:34	42903	MIDD_T2	2	2	0	0.95	1.4	0.45	0	0	0	0	0	0	0	0
9/8/2024 20:34	42902	MIDD_T2	0	5	5	0	0.1	0.1	-0.65	-0.68	0	0	0	0	0	0
9/8/2024 20:36	42902	MIDD_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 20:36	42903	MIDD_T2	2	2	0	0.95	1.4	0.45	-0.43	-0.31	0	0	0	0	0	0
9/8/2024 20:38	42903	MIDD_T2	2	2	0	0.95	1.4	0.45	0	0	0	0	0	0	0	0
9/8/2024 20:38	42902	MIDD_T2	0	5	5	0	0.1	0.1	-0.68	-0.7	0	0	0	0	0	0
9/8/2024 20:39	42902	MIDD_T2	0	5	5	0	0.1	0.1	-0.68	-0.7	0	0	0	0	0	0
9/8/2024 20:39	42903	MIDD_T2	2	2	0	0.95	1.4	0.45	0	0	0	0	0	0	0	0
9/8/2024 20:39	60101	COCA_T1	0	0	0	0	0	0	0.3	0.24	0	0	0	0	0	0
9/8/2024 20:40	60101	COCA_T1	0	0	0	0	0	0	0.3	0.24	0	0	0	0	0	0
9/8/2024 20:41	60101	COCA_T1	0	0	0	0	0	0	0.3	0.24	0	0	0	0	0	0
9/8/2024 20:42	60101	COCA_T1	0	0	0	0	0	0	0.3	0.24	0	0	0	0	0	0
9/8/2024 20:43	60101	COCA_T1	0	0	0	0	0	0	0.3	0.24	0	0	0	0	0	0
9/8/2024 20:44	60101	COCA_T1	0	0	0	0	0	0	0.3	0.24	0	0	0	0	0	0
9/8/2024 20:46	64603	LEOL_T1	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
9/8/2024 20:46	60101	COCA_T1	0	0	0	0	0	0	0.3	0.24	0	0	0	0	0	0
9/8/2024 21:00	25603	ARRO_T1	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
9/8/2024 21:01	67602	WARW_T2	0	0	0	0	0	0	0.85	0.81	1	1	0	300	300	0
9/8/2024 21:01	55101	WERT_T1	0	0	0	0	0	0	-1.58	-1.55	2	2	0	1500	1500	0
9/8/2024 21:05	46801	HEPB_T2	2	3	1	0.7	0.67	-0.03	0.6	0.58	0	0	0	0	0	0
9/8/2024 21:05	46803	HEPB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 21:10	67805	WLAN_T1	0	0	0	0	0	0	-1.59	-1.57	0	0	0	0	0	0
9/8/2024 21:12	67605	WARW_T1	13	41	28	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
9/8/2024 21:12	67604	WARW_T1	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
9/8/2024 21:15	20103	AVOC_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
9/8/2024 21:16	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:17	15604	NSTR_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
9/8/2024 21:18	28703	HAML_T2	3	3	0	0.23	0.33	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:18	10602	BLGL_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
9/8/2024 21:18	28704	HAML_T2	1	1	0	0.7	0.9	0.2	-0.01	0.03	0	0	0	0	0	0
9/8/2024 21:20	15203	SFAR_T2	0	15	15	0	0.12	0.12	-1.22	-1.23	0	0	0	0	0	0
9/8/2024 21:20	26704	HEML_T2	77	110	33	0.3	0.42	0.12	-0.79	-0.8	1	1	0	1200	1200	0
9/8/2024 21:21	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:21	66901	SHIL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:21	10805	CHHI_T2	1	1	0	7.7	7.6	-0.1	-1.01	-1.08	0	0	0	0	0	0
9/8/2024 21:21	66903	SHIL_T2	0	0	0	0	0	0	-1.65	-1.01	0	0	0	0	0	0
9/8/2024 21:22	16101	BING_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
9/8/2024 21:22	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
9/8/2024 21:22	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:22	15703	TANN_T2	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
9/8/2024 21:22	67605	WARW_T1	26	47	21	0.51	0.64	0.13	0	0	0	0	0	0	0	0
9/8/2024 21:22	16102	BING_T2	10	18	8	0.19	0.48	0.29	0	0	0	0	0	0	0	0
9/8/2024 21:22	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
9/8/2024 21:23	66505	SMAN_T2	3	3	0	0.33	0.63	0.3	0	0	0	0	0	0	0	0
9/8/2024 21:23	15101	UPHA_T1	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
9/8/2024 21:23	13905	SEID_T1	0	0	0	0	0	0	-0.99	-1.01	1	1	0	1200	1200	0
9/8/2024 21:23	66504	SMAN_T2	0	0	0	0	0	0	-1.24	-1.26	0	0	0	0	0	0
9/8/2024 21:23	65001	NEFF_T2	0	0	0	0	0	0	-1.35	-1.42	1	1	0	1200	1200	0
9/8/2024 21:23	67402	WAKE_T2	0	0	0	0	0	0	-0.47	-0.49	1	1	0	600	600	0
9/8/2024 21:23	25402	LAHA_T2	2	8	6	0.15	0.2	0.05	-0.93	-0.9	0	0	0	0	0	0
9/8/2024 21:24	12701	MACU_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
9/8/2024 21:24	61501	EPET_T2	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
9/8/2024 21:24	63403	HONY_T2	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
9/8/2024 21:24	61506	EPET_T2	0	0	0	0	0	0	-1.16	-1.19	1	1	0	900	900	0
9/8/2024 21:24	64902	MILL_T2	0	0	0	0	0	0	-1.31	-1.28	1	1	0	900	900	0
9/8/2024 21:24	22001	BOHE_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
9/8/2024 21:24	22003	BOHE_T1	90	237	147	0.16	0.38	0.22	0	0	0	0	0	0	0	0
9/8/2024 21:24	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:24	61001	DONV_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
9/8/2024 21:24	65503	MOJO_T2	0	0	0	0	0	0	-0.47	-0.54	0	0	0	0	0	0
9/8/2024 21:24	65502	MOJO_T2	0	20	20	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:24	11903	ETEX_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
9/8/2024 21:24	28805	LAKE_T1	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
9/8/2024 21:25	60701	BREC_T1	0	10	10	0	0.14	0.14	-0.55	-0.55	1	1	0	600	600	0
9/8/2024 21:25	54201	PENN_T1	11	25	14	0.86	0.56	-0.3	-1.04	-1.05	0	0	0	0	0	0
9/8/2024 21:25	22002	BOHE_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
9/8/2024 21:25	67605	WARW_T1	26	47	21	0.51	0.64	0.13	-1.25	-1.27	0	0	0	0	0	0
9/8/2024 21:25	14308	SUMN_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
9/8/2024 21:25	11901	ETEX_T2	0	0	0	0	0	0	0.35	0.29	0	0	0	0	0	0
9/8/2024 21:25	54203	PENN_T1	18	18	0	0.81	1.13	0.32	0	0	0	0	0	0	0	0
9/8/2024 21:25	14303	SUMN_T1	3	3	0	6.43	6.4	-0.03	0	0	0	0	0	0	0	0
9/8/2024 21:25	12005	HATF_T1	5	5	0	0.38	0.64	0.26	0	0	0	0	0	0	0	0
9/8/2024 21:25	12001	HATF_T1	0	1	1	0	0.1	0.1	0.84	0.81	1	1	0	600	600	0
9/8/2024 21:25	22003	BOHE_T1	90	237	147	0.16	0.38	0.22	-0.21	-0.2	0	0	0	0	0	0
9/8/2024 21:25	45901	AUBU_T1	0	1	1	0	0.1	0.1	1.05	1.06	0	0	0	0	0	0
9/8/2024 21:25	45902	AUBU_T1	6	28	22	0.15	0.22	0.07	0	0	0	0	0	0	0	0
9/8/2024 21:25	12004	HATF_T1	0	26	26	0	0.17	0.17	0	0	0	0	0	0	0	0
9/8/2024 21:26	28702	HAML_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
9/8/2024 21:26	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:26	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 21:26	62105	ELAN_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
9/8/2024 21:26	65802	RTWN_T2	0	0	0	0	0	0	-0.19	-0.18	0	0	0	0	0	0
9/8/2024 21:26	15703	TANN_T2	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
9/8/2024 21:26	57401	SPAN_T1	0	0	0	0	0	0	-0.94	-0.97	1	1	0	600	600	0
9/8/2024 21:26	46203	DANV_T2	1	1	0	8.1	8.7	0.6	-2.1	-2.11	0	0	0	0	0	0
9/8/2024 21:26	23403	HONE_T1	0	1	1	0	0.1	0.1	-0.79	-0.81	0	0	0	0	0	0
9/8/2024 21:26	28704	HAML_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
9/8/2024 21:26	40101	HUNT_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
9/8/2024 21:26	46205	DANV_T2	0	25	25	0	0.12	0.12	0	0	0	0	0	0	0	0
9/8/2024 21:26	40201	BEGA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/8/2024 21:26	45902	AUBU_T1	6	28	22	0.15	0.22	0.07	-0.58	-0.61	0	0	0	0	0	0
9/8/2024 21:26	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
9/8/2024 21:26	45302	WBER_T2	0	0	0	0	0	0	0.8	1.87	0	0	0	0	0	0
9/8/2024 21:26	14502	SCHO_T1	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
9/8/2024 21:26	53102	WTWN_T1	0	2	2	0	0.1	0.1	-0.56	-0.55	0	0	0	0	0	0
9/8/2024 21:26	28703	HAML_T2	3	3	0	0.23	0.33	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:27	46506	LOHA_T1	4	4	0	3.85	4.38	0.53	0	0	0	0	0	0	0	0
9/8/2024 21:27	45902	AUBU_T1	6	28	22	0.15	0.22	0.07	0	0	0	0	0	0	0	0
9/8/2024 21:27	66901	SHIL_T2	1	1	0	0.2	0.3	0.1	-1.82	-1.82	1	1	0	1200	1200	0
9/8/2024 21:27	46501	LOHA_T1	0	0	0	0	0	0	-0.13	-0.16	1	1	0	1200	1200	0
9/8/2024 21:27	45901	AUBU_T1	0	1	1	0	0.1	0.1	1.05	1.06	0	0	0	0	0	0
9/8/2024 21:27	24104	EHAZ_T1	6	2	-4	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
9/8/2024 21:27	62106	ELAN_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
9/8/2024 21:27	63404	HONY_T1	16	135	119	0.14	0.29	0.15	0	0	0	0	0	0	0	0
9/8/2024 21:27	16102	BING_T2	10	18	8	0.19	0.48	0.29	0	0	0	0	0	0	0	0
9/8/2024 21:27	46504	LOHA_T1	2	3	1	0.8	0.77	-0.03	0	0	0	0	0	0	0	0
9/8/2024 21:27	14703	TREX_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/8/2024 21:27	24105	EHAZ_T1	4	4	0	5.33	5.78	0.45	0	0	0	0	0	0	0	0
9/8/2024 21:27	46001	BERW_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
9/8/2024 21:27	60701	BREC_T1	0	10	10	0	0.14	0.14	-0.55	-0.55	1	1	0	600	600	0
9/8/2024 21:27	24102	EHAZ_T1	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
9/8/2024 21:27	20601	GRWO_T2	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
9/8/2024 21:27	63501	HEID_TBK1-2	48	49	1	0.63	0.43	-0.2	0.35	0.3	0	0	0	0	0	0
9/8/2024 21:27	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:27	67503	WEWI_T2	1	1	0	6.7	7.2	0.5	-0.26	-0.24	0	0	0	0	0	0
9/8/2024 21:27	66903	SHIL_T2	0	0	0	0	0	0	-1.65	-1.01	0	0	0	0	0	0
9/8/2024 21:27	14702	TREX_T2	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
9/8/2024 21:27	16103	BING_T2	0	0	0	0	0	0	-1	-0.98	2	2	0	1500	1500	0
9/8/2024 21:27	63401	HONY_T1	0	0	0	0	0	0	-0.86	-0.91	2	2	0	1200	1200	0
9/8/2024 21:28	64503	LAVI_T1	0	0	0	0	0	0	-0.93	-0.91	1	1	0	1200	1200	0
9/8/2024 21:28	42201	SHEN_T2	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
9/8/2024 21:28	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:28	23401	HONE_T2	0	0	0	0	0	0	-0.24	-0.35	0	0	0	0	0	0
9/8/2024 21:28	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 21:28	50201	HARR_T3	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
9/8/2024 21:28	66703	STRA_T1	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
9/8/2024 21:28	67605	WARW_T1	26	47	21	0.51	0.64	0.13	-1.25	-1.27	0	0	0	0	0	0
9/8/2024 21:28	62607	ENGL_T1	0	0	0	0	0	0	-1.04	-1.06	1	1	0	300	300	0
9/8/2024 21:28	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:28	50107	HARR_T3	1	1	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
9/8/2024 21:28	12801	MICK_T1	0	0	0	0	0	0	-1.13	-1.15	1	1	0	600	600	0
9/8/2024 21:28	15203	SFAR_T2	0	15	15	0	0.12	0.12	-1.23	-1.28	0	0	0	0	0	0
9/8/2024 21:28	57401	SPAN_T1	0	0	0	0	0	0	-0.94	-0.97	1	1	0	600	600	0
9/8/2024 21:28	26401	INOR_T1	1	1	0	9.1	10	0.9	0	0	0	0	0	0	0	0
9/8/2024 21:28	26402	INOR_T1	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
9/8/2024 21:28	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:28	44201	POIN_T1	42	142	100	0.14	0.19	0.05	-1.94	-1.91	1	1	0	1200	1200	0
9/8/2024 21:28	50105	HARR_T3	6	6	0	7.4	7.27	-0.13	0	0	0	0	0	0	0	0
9/8/2024 21:28	45902	AUBU_T1	6	28	22	0.15	0.22	0.07	-1.17	-1.23	0	0	0	0	0	0
9/8/2024 21:29	61701	ELIZ_T1	1	1	0	3.4	3.8	0.4	0	0	0	0	0	0	0	0
9/8/2024 21:29	67402	WAKE_T2	0	0	0	0	0	0	-0.47	-0.49	1	1	0	600	600	0
9/8/2024 21:29	44703	MUNC_T2	0	2	2	0	0.15	0.15	0.57	0.62	0	0	0	0	0	0
9/8/2024 21:29	65207	PRIN_T4	1	1	0	0.5	0.8	0.3	0	0	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/8/2024 21:29	65206	PRIN_T4	1	0	-1	4.4	0	-4.4	0	0	0	0	0	0	0	0
9/8/2024 21:29	60701	BREC_T1	0	10	10	0	0.14	0.14	-1.1	-1.1	2	2	0	1200	1200	0
9/8/2024 21:29	51202	MTON_T2	0	0	0	0	0	0	-1.07	-1.08	1	1	0	1200	1200	0
9/8/2024 21:29	61801	EELI_T2	0	0	0	0	0	0	-1.01	-1.06	1	1	0	600	600	0
9/8/2024 21:29	60801	BUCK_T1	0	33	33	0	0.19	0.19	-0.93	-0.92	1	1	0	600	600	0
9/8/2024 21:29	67502	WEWI_T2	0	0	0	0	0	0	-1.54	-1.49	1	1	0	900	900	0
9/8/2024 21:29	61703	ELIZ_T1	0	0	0	0	0	0	-2.42	-2.46	2	2	0	2100	2100	0
9/8/2024 21:29	45902	AUBU_T1	6	28	22	0.15	0.22	0.07	-0.58	-0.61	0	0	0	0	0	0
9/8/2024 21:29	45901	AUBU_T1	0	1	1	0	0.1	0.1	1.05	1.06	0	0	0	0	0	0
9/8/2024 21:29	45501	DERR_T2	1	1	0	0.2	0.5	0.3	-0.91	-0.93	2	2	0	1800	1800	0
9/8/2024 21:29	60903	DONG_T2	0	0	0	0	0	0	0.81	0.67	1	1	0	600	600	0
9/8/2024 21:29	48901	FOSP_T2	0	0	0	0	0	0	-0.47	-0.36	1	1	0	600	600	0
9/8/2024 21:29	42201	SHEN_T2	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
9/8/2024 21:29	42001	MNVL_T2	69	92	23	0.39	0.43	0.04	-0.34	-0.35	0	0	0	0	0	0
9/8/2024 21:29	14703	TREX_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/8/2024 21:29	42002	MNVL_T2	1	1	0	3.1	2.7	-0.4	0	0	0	0	0	0	0	0
9/8/2024 21:29	14702	TREX_T2	0	0	0	0	0	0	0.99	0.99	0	0	0	0	0	0
9/8/2024 21:29	67503	WEWI_T2	1	1	0	6.7	7.2	0.5	0	0	0	0	0	0	0	0
9/8/2024 21:30	24201	PROV_T3	96	232	136	0.2	0.19	-0.01	-1.47	-1.51	1	1	0	1200	1200	0
9/8/2024 21:30	67605	WARW_T1	41	46	5	0.53	0.63	0.1	-1.25	-1.27	0	0	0	0	0	0
9/8/2024 21:30	42601	TUSC_T1	1	6	5	0.3	0.53	0.23	-0.73	-0.73	1	1	0	1200	1200	0
9/8/2024 21:30	14802	TREI_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
9/8/2024 21:30	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:30	54001	SDLE_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 21:30	63203	MGTN_T1	0	0	0	0	0	0	-0.96	-0.96	2	2	0	1200	1200	0
9/8/2024 21:30	26001	WDAM_T1	0	0	0	0	0	0	-0.72	-0.76	0	0	0	0	0	0
9/8/2024 21:30	61703	ELIZ_T1	0	0	0	0	0	0	-2.42	-2.46	2	2	0	2100	2100	0
9/8/2024 21:30	54504	ENOL_T2	0	0	0	0	0	0	-1.73	-1.76	1	1	0	600	600	0
9/8/2024 21:30	10705	CATA_T2	0	0	0	0	0	0	-0.95	-0.96	1	1	0	900	900	0
9/8/2024 21:30	12604	MACA_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
9/8/2024 21:30	16103	BING_T2	0	0	0	0	0	0	-1	-0.98	2	2	0	1500	1500	0
9/8/2024 21:30	12001	HATF_T1	0	1	1	0	0.1	0.1	0.84	0.81	1	1	0	600	600	0
9/8/2024 21:30	24204	PROV_T3	3	3	0	1.93	1.93	0	0	0	0	0	0	0	0	0
9/8/2024 21:30	64101	REFR_T1	0	3	3	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 21:30	12004	HATF_T1	13	26	13	0.14	0.17	0.03	0	0	0	0	0	0	0	0
9/8/2024 21:30	12701	MACU_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
9/8/2024 21:30	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:30	47802	MOCA_T2	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
9/8/2024 21:30	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:30	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:30	26002	WDAM_T1	1	4	3	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
9/8/2024 21:30	12005	HATF_T1	5	5	0	0.58	0.58	0	0	0	0	0	0	0	0	0
9/8/2024 21:30	16102	BING_T2	16	18	2	0.33	0.48	0.15	0	0	0	0	0	0	0	0
9/8/2024 21:30	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:30	63501	HEID_T8X1-2	49	49	0	0.58	0.43	-0.15	0.35	0.3	0	0	0	0	0	0
9/8/2024 21:30	66505	SMAN_T2	3	3	0	0.27	0.63	0.36	0	0	0	0	0	0	0	0
9/8/2024 21:30	58402	MORO_T1	0	0	0	0	0	0	0.14	0.14	1	1	0	900	900	0
9/8/2024 21:30	61701	ELIZ_T1	1	1	0	3.5	3.8	0.3	0	0	0	0	0	0	0	0
9/8/2024 21:30	24205	PROV_T3	5	13	8	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
9/8/2024 21:30	54505	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/8/2024 21:30	11901	ETEX_T2	0	0	0	0	0	0	0.35	0.29	0	0	0	0	0	0
9/8/2024 21:31	65503	MOJO_T2	0	0	0	0	0	0	-0.47	-0.54	0	0	0	0	0	0
9/8/2024 21:31	66901	SHIL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/8/2024 21:31	65205	PRIN_T1	1	3	2	1.9	0.77	-1.13	0	0	0	0	0	0	0	0
9/8/2024 21:31	64503	LAVI_T1	0	0	0	0	0	0	-0.93	-0.91	1	1	0	1200	1200	0
9/8/2024 21:31	66903	SHIL_T2	0	0	0	0	0	0	-1.65	-1.01	0	0	0	0	0	0
9/8/2024 21:31	57205	ROSS_T1	0	0	0	0	0	0	-0.98	-0.97	1	1	0	900	900	0
9/8/2024 21:31	65502	MOJO_T2	0	20	20	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:31	56503	ROCK_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:31	50107	HARR_T3	1	1	0	6.8	6.4	-0.4	0	0	0	0	0	0	0	0
9/8/2024 21:31	15604	NSTR_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
9/8/2024 21:31	59301	MCAL_T1	2	2	0	0.8	1.5	0.7	-1.8	-1.84	1	1	0	600	600	0
9/8/2024 21:31	66505	SMAN_T2	3	3	0	0.27	0.63	0.36	0	0	0	0	0	0	0	0
9/8/2024 21:31	14702	TREX_T2	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
9/8/2024 21:31	50105	HARR_T3	6	6	0	7.3	7.17	-0.13	0	0	0	0	0	0	0	0
9/8/2024 21:31	59302	MCAL_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/8/2024 21:31	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:31	67605	WARW_T1	41	46	5	0.53	0.63	0.1	-1.25	-1.27	0	0	0	0	0	0
9/8/2024 21:31	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:31	51304	WIND_T2	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
9/8/2024 21:31	45902	AUBU_T1	18	28	10	0.24	0.21	-0.03	-1.17	-1.23	0	0	0	0	0	0
9/8/2024 21:31	65604	QVIL_T2	0	1	1	0	0	0	0.24	0.25	0	0	0	0	0	0
9/8/2024 21:31	25501	MADI_T1	4	5	1	1.7	1.28	-0.42	0	0	0	0	0	0	0	0
9/8/2024 21:31	66504	SMAN_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
9/8/2024 21:31	48302	ORWI_T2	2	2	0	0.9	1.05	0.15	0	0	0	0	0	0	0	0
9/8/2024 21:31	63804	HEMP_T1	1	1	0	5.1	5.3	0.2	-0.51	-0.54	0	0	0	0	0	0
9/8/2024 21:31	50201	HARR_T3	1	1	0	0.9	1.1	0.2	-1.07	-1.08	1	1	0	1200	1200	0
9/8/2024 21:31	61301	EARL_T1	0	0	0	0	0	0	-0.49	-0.5	1	1	0	900	900	0
9/8/2024 21:31	61202	REIN_T1	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
9/8/2024 21:31	56501	ROCK_T2	87	82	-5	0.16	0.18	0.02	-1.33	-1.39	0	0	0	0	0	0
9/8/2024 21:31	64101	REFR_T1	0	3	3	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 21:31	25503	MADI_T1	136	257	121	0.31	0.42	0.11	-1.02	-1	0	0	0	0	0	0
9/8/2024 21:32	64503	LAVI_T1	0	0	0	0	0	0	-0.93	-0.91	1	1	0	1200	1200	0
9/8/2024 21:32	12001	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:32	12004	HATF_T1	13	26	13	0.14	0.17	0.03	0	0	0	0	0	0	0	0
9/8/2024 21:32	14102	TRUM_T2	1	3	2	4.4	1.4	-3	0.04	0	1	1	0	900	900	0
9/8/2024 21:32	56503	ROCK_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:32	62106	ELAN_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
9/8/2024 21:32	48902	FOSP_T2	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
9/8/2024 21:32	15203	SFAR_T2	2	39	37	0.1	0.15	0.05	-1.23	-1.28	0	0	0	0	0	0
9/8/2024 21:32	43102	SMIL_T2	4	7	3	0.5	0.56	0.06	0	0	0	0	0	0	0	0
9/8/2024 21:32	47203	FAXO_T2	0	0	0	0	0	0	-1.65	-1.65	1	1	0	1200	1200	0
9/8/2024 21:32	14103	TRUM_T2	14	364	350	0.16	0.32	0.16	0	0	0	0	0	0	0	0
9/8/2024 21:32	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:32	46501	LOHA_T1	0	0	0	0	0	0	-0.26	-0.32	2	2	0	2400	2400	0
9/8/2024 21:32	43108	SMIL_T2	0	0	0	0	0	0	-1.13	-1.15	1	1	0	1200	1200	0
9/8/2024 21:32	44703	MUNC_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
9/8/2024 21:32	64101	REFR_T1	0	3	3	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 21:32	24602	VARD_T2	23	95	72	0.33	0.22	-0.11	0	0	0	0	0	0	0	0
9/8/2024 21:32	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:32	24603	VARD_T2	28	50	22	0.23	0.27	0.04	0	0	0	0	0	0	0	0
9/8/2024 21:32	26803	JAFR_T1	0	0	0	0	0	0	-0.36	-0.38	1	1	0	900	900	0
9/8/2024 21:32	66505	SMAN_T2	3	3	0	0.27	0.63	0.36	-0.01	-0.07	1	1	0	900	900	0
9/8/2024 21:32	12006	HATF_T1	0	0	0	0	0	0	0.6	0.53	0	0	0	0	0	0
9/8/2024 21:32	57403	SPAN_T1	0	10	10	0	0.16	0.16	0	0	0	0	0	0	0	0
9/8/2024 21:32	46506	LOHA_T1	4	4	0	4.28	4.6	0.32	0	0	0	0	0	0	0	0
9/8/2024 21:32	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:32	43103	SMIL_T2	3	12	9	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
9/8/2024 21:32	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:32	60801	BUCK_T1	15	42	27	0.13	0.21	0.08	-0.93	-0.92	1	1	0	600	600	0
9/8/2024 21:32	40901	JESH_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/8/2024 21:32	56501	ROCK_T2	87	82	-5	0.16	0.18	0.02	-1.33	-1.39	0	0	0	0	0	0
9/8/2024 21:32	46504	LOHA_T1	3	45	42	0.67	0.37	-0.3	0	0	0	0	0	0	0	0
9/8/2024 21:32	57401	SPAN_T1	0	0	0	0	0	0	-0.94	-0.97	1	1	0	600	600	0
9/8/2024 21:32	44702	MUNC_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:32	12005	HATF_T1	5	5	0	0.58	0.58	0	0	0	0	0	0	0	0	0
9/8/2024 21:33	46803	HEPB_T2	1	7	6	0.2	0.16	-0.04	0.32	0.32	0	0	0	0	0	0
9/8/2024 21:33	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:33	20401	ASHF_T2	2	5	3	0.1	0.1	0	0	0	0	0	0	0	0	0
9/8/2024 21:33	46401	FLEM_T2	461	781	320	0.32	0.49	0.17	-0.46	-0.51	0	0	0	0	0	0
9/8/2024 21:33	15702	TANN_T2	0	0	0	0	0	0	-0.92	-0.94	0	0	0	0	0	0
9/8/2024 21:33	67703	WERN_T2	0	0	0	0	0	0	-0.89	-0.9	1	1	0	900	900	0
9/8/2024 21:33	46402	FLEM_T2	686	1006	320	0.34	0.56	0.22	0	0	0	0	0	0	0	0
9/8/2024 21:33	42501	ALTA_T2	0	0	0	0	0	0	0.14	0.1	1	1	0	600	600	0
9/8/2024 21:33	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:33	63401	HONY_T1	0	0	0	0	0	0	-0.43	-0.46	1	1	0	600	600	0
9/8/2024 21:33	11404	FARM_T1	0	0	0	0	0	0	-0.74	0.58	1	0	-1	1200	0	-1200
9/8/2024 21:33	15703	TANN_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
9/8/2024 21:33	63404	HONY_T1	118	132	14	0.23	0.29	0.06	0	0	0	0	0	0	0	0
9/8/2024 21:33	62105	ELAN_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
9/8/2024 21:33	55405	SHER_T1	4	6	2	0.1	0.25	0.15	-0.17	-0.17	0	0	0	0	0	0
9/8/2024 21:33	11405	FARM_T1	1	1	0	3.2	3.1	-0.1	0	0	0	0	0	0	0	0
9/8/2024 21:33	48902	FOSP_T2	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
9/8/2024 21:33	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:33	47001	HUGH_T2	3	3	0	8.77	8.5	-0.27	-1.07	-1.07	0	0	0	0	0	0
9/8/2024 21:33	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:33	20403	ASHF_T2	0	0	0	0	0	0	0.13	0.07	0	0	0	0	0	0
9/8/2024 21:33	64101	REFR_T1	0	3	3	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 21:33	46801	HEPB_T2	3	18	15	0.67	0.26	-0.41	0	0	0	0	0	0	0	0
9/8/2024 21:33	61001	DONV_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
9/8/2024 21:33	65804	RTWN_T1	0	0	0	0	0	0	0	-0.02	1	1	0	600	600	0
9/8/2024 21:33	13303	ORVI_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
9/8/2024 21:34	61701	ELIZ_T1	1	1	0	3.5	3.8	0.3	0	0	0	0	0	0	0	0
9/8/2024 21:34	50502	MECH_T1	12	110	98	0.33	0.2	-0.13	-0.44	-0.49	2	2	0	2100	2100	0
9/8/2024 21:34	20403	ASHF_T2	0	0	0	0	0	0	0.13	0.07	0	0	0	0	0	0
9/8/2024 21:34	43201	MVIL_T2	0	0	0	0	0	0	-1.33	-1.35	0	0	0	0	0	0
9/8/2024 21:34	20102	AVOC_T1	0	1	1	0	0.1	0.1	-0.72	-0.77	0	0	0	0	0	0
9/8/2024 21:34	41902	REED_T1	0	0	0	0	0	0	0.81	0.73	0	0	0	0	0	0
9/8/2024 21:34	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/8/2024 21:34	61502	EPET_T1	0	0	0	0	0	0	-1.32	-1.3	0	0	0	0	0	0
9/8/2024 21:34	62101	ELAN_T1	0	1	1	0	0.1	0.1	1.46	1.5	0	0	0	0	0	0
9/8/2024 21:34	12701	MACU_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
9/8/2024 21:34	64902	MILL_T2	0	0	0	0	0	0	-1.31	-1.28	1	1	0	900	900	0
9/8/2024 21:34	61703	ELIZ_T1	0	0	0	0	0	0	-2.42	-2.46	2	2	0	2100	2100	0
9/8/2024 21:34	44801	EDAN_T2	208	198	-10	0.5	0.59	0.09	-1.71	-1.74	0	0	0	0	0	0
9/8/2024 21:34	52404	GRPA_T2	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:34	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 21:34	14204	EALL_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
9/8/2024 21:34	45502	DERR_T2	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
9/8/2024 21:34	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:34	13704	SCHN_T2	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
9/8/2024 21:34	52402	GRPA_T2	3	3	0	0.23	0.47	0.24	0	0	0	0	0	0	0	0
9/8/2024 21:34	64101	REFR_T1	0	3	3	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/8/2024 21:34	14202	EALL_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
9/8/2024 21:34	45501	DERR_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/8/2024 21:34	58202	NEWV_T1	8	8	0	0.59	1.19	0.6	-0.07	-0.08	0	0	0	0	0	0
9/8/2024 21:34	20401	ASHF_T2	2	5	3	0.1	0.1	0	0	0	0	0	0	0	0	0
9/8/2024 21:34	56503	ROCK_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:34	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:34	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:34	52403	GRPA_T2	11	65	54	0.38	0.76	0.38	-0.28	-0.29	0	0	0	0	0	0
9/8/2024 21:34	20105	AVOC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:34	10801	CHHI_T1	0	0	0	0	0	0	-1.43	-1.43	2	2	0	1500	1500	0
9/8/2024 21:34	56501	ROCK_T2	87	82	-5	0.16	0.18	0.02	-2.67	-2.78	0	0	0	0	0	0
9/8/2024 21:34	50501	MECH_T1	4	4	0	1.5	1.95	0.45	0	0	0	0	0	0	0	0
9/8/2024 21:34	45402	WBLO_T2	1	1	0	0.1	0.9	0.8	-1.2	-1.22	1	1	0	900	900	0
9/8/2024 21:35	58202	NEWV_T1	8	8	0	0.59	1.19	0.6	-0.07	-0.08	0	0	0	0	0	0
9/8/2024 21:35	61803	EELI_T2	0	0	0	0	0	0	0.07	0.08	1	1	0	600	600	0
9/8/2024 21:35	20603	GRWO_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
9/8/2024 21:35	42802	SELI_T1	0	1	1	0	0.5	0.5	-1.9	-2.06	0	0	0	0	0	0
9/8/2024 21:35	46101	MACI_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
9/8/2024 21:35	10903	COOP_T2	10	49	39	0.11	0.17	0.06	-0.37	-0.37	1	1	0	600	600	0
9/8/2024 21:35	42201	SHEN_T2	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
9/8/2024 21:35	52004	LING_T2	2	2	0	4.55	4.85	0.3	-0.16	-0.17	0	0	0	0	0	0
9/8/2024 21:35	25603	ARRO_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
9/8/2024 21:35	65503	MOJO_T2	0	0	0	0	0	0	-0.47	-0.54	0	0	0	0	0	0
9/8/2024 21:35	44201	POIN_T1	63	161	98	0.15	0.2	0.05	-1.94	-1.91	1	1	0	1200	1200	0
9/8/2024 21:35	61701	ELIZ_T1	1	1	0	3.5	3.8	0.3	0	0	0	0	0	0	0	0
9/8/2024 21:35	63501	HEID_TBK1-2	49	49	0	0.58	0.43	-0.15	0.35	0.3	0	0	0	0	0	0
9/8/2024 21:35	65502	MOJO_T2	0	20	20	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:35	27201	YATE_T1	0	22	22	0	0.1	0.1	-21.6	-21.6	0	0	0	0	0	0
9/8/2024 21:35	61703	ELIZ_T1	0	0	0	0	0	0	-2.42	-2.46	2	2	0	2100	2100	0
9/8/2024 21:35	45501	DERR_T2	1	1	0	0.3	0.5	0.2	-0.91	-0.93	2	2	0	1800	1800	0
9/8/2024 21:35	67501	WEWI_T1	0	0	0	0	0	0	-1.27	-1.34	1	1	0	600	600	0
9/8/2024 21:35	11405	FARM_T1	1	1	0	3.2	3.1	-0.1	0	0	0	0	0	0	0	0
9/8/2024 21:35	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:35	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:36	66901	SHIL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/8/2024 21:36	67401	WAKE_T2	0	0	0	0	0	0	-1.12	-1.02	0	0	0	0	0	0
9/8/2024 21:36	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:36	59101	WALK_T2	0	0	0	0	0	0	0.59	1.15	2	2	0	1200	1200	0
9/8/2024 21:36	59102	WALK_T2	0	0	0	0	0	0	-0.38	0.29	1	0	-1	600	0	-600
9/8/2024 21:36	63501	HEID_TBK1-2	49	49	0	0.58	0.43	-0.15	0.3	0.36	0	0	0	0	0	0
9/8/2024 21:36	64202	KINZ_T1	0	3	3	0	0.77	0.77	0	0	0	0	0	0	0	0
9/8/2024 21:36	60701	BREC_T1	0	10	10	0	0.14	0.14	-0.55	-0.6	1	1	0	600	600	0
9/8/2024 21:36	66903	SHIL_T2	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
9/8/2024 21:36	61801	EELI_T2	0	0	0	0	0	0	-1.06	-0.44	1	1	0	600	600	0
9/8/2024 21:36	21705	SUBU_T1	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
9/8/2024 21:36	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.2	1	1	0	600	600	0
9/8/2024 21:36	53102	WTWN_T1	0	8	8	0	0.13	0.13	-0.56	-0.55	0	0	0	0	0	0
9/8/2024 21:36	64201	KINZ_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
9/8/2024 21:36	67605	WARW_T1	41	46	5	0.53	0.63	0.1	-1.27	-1.33	0	0	0	0	0	0
9/8/2024 21:36	64203	KINZ_T1	0	0	0	0	0	0	-0.17	-0.2	1	1	0	600	600	0
9/8/2024 21:36	66502	SMAN_T2	0	0	0	0	0	0	-0.26	-0.31	0	0	0	0	0	0
9/8/2024 21:36	20401	ASHF_T2	2	5	3	0.1	0.1	0	0	0	0	0	0	0	0	0
9/8/2024 21:36	67901	WNHO_T2	47	62	15	0.28	0.39	0.11	-0.54	-0.67	1	1	0	900	900	0
9/8/2024 21:36	54001	SDLE_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 21:36	21704	SUBU_T1	0	0	0	0	0	0	-2.57	-2.61	2	2	0	2400	2400	0
9/8/2024 21:36	57002	WHHI_T2	0	0	0	0	0	0	-1.57	-1.59	1	1	0	1200	1200	0
9/8/2024 21:36	51202	MTON_T2	0	0	0	0	0	0	-1.07	-1.08	1	1	0	1200	1200	0
9/8/2024 21:36	24105	EHAZ_T1	4	4	0	5.78	6.13	0.35	0	0	0	0	0	0	0	0
9/8/2024 21:36	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:36	67801	WLAN_T1	0	0	0	0	0	0	-0.6	0.33	0	0	0	0	0	0
9/8/2024 21:36	66505	SMAN_T2	3	3	0	0.27	0.63	0.36	0	0	0	0	0	0	0	0
9/8/2024 21:36	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:36	21701	SUBU_T1	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
9/8/2024 21:36	65502	MOJO_T2	0	20	20	0	0.1	0.1	-1.25	-1.28	0	0	0	0	0	0
9/8/2024 21:36	13704	SCHN_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
9/8/2024 21:36	20403	ASHF_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
9/8/2024 21:36	64204	KINZ_T1	1	1	0	1.1	1.6	0.5	0	0	0	0	0	0	0	0
9/8/2024 21:36	53101	WTWN_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:36	24104	EHAZ_T1	2	0	-2	0.1	0	-0.1	-2.23	-2.23	1	1	0	1200	1200	0
9/8/2024 21:36	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:36	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:37	45501	DERR_T2	1	1	0	0.3	0.5	0.2	-0.93	-0.93	2	2	0	1800	1800	0
9/8/2024 21:37	43103	SMIL_T2	3	12	9	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
9/8/2024 21:37	61202	REIN_T1	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
9/8/2024 21:37	24205	PROV_T3	5	13	8	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
9/8/2024 21:37	20603	GRWO_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
9/8/2024 21:37	24204	PROV_T3	3	3	0	1.93	1.93	0	0	0	0	0	0	0	0	0
9/8/2024 21:37	56503	ROCK_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:37	45602	WOOL_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
9/8/2024 21:37	14203	EALL_T1	0	0	0	0	0	0	0.79	0.83	0	0	0	0	0	0
9/8/2024 21:37	64101	REFR_T1	0	3	3	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 21:37	52102	MEIS_T1	0	68	68	0	0.13	0.13	0	0	0	0	0	0	0	0
9/8/2024 21:37	43102	SMIL_T2	4	7	3	0.5	0.56	0.06	0	0	0	0	0	0	0	0
9/8/2024 21:37	60701	BREC_T1	0	10	10	0	0.14	0.14	-0.55	-0.6	1	1	0	600	600	0
9/8/2024 21:37	64305	LINC_T1	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
9/8/2024 21:37	52101	MEIS_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 21:37	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.73	0	0	0	0	0	0
9/8/2024 21:37	63304	GREE_T1	0	4	4	0	0.1	0.1	-1.84	-1.91	0	0	0	0	0	0
9/8/2024 21:37	61801	EELI_T2	0	0	0	0	0	0	-1.06	-0.44	1	0	-1	600	0	-600
9/8/2024 21:37	13303	ORVI_T1	0	0	0	0	0	0	0.59	0.53	0	0	0	0	0	0
9/8/2024 21:37	46102	MACI_T1	0	0	0	0	0	0	0.73	0.76	0	0	0	0	0	0
9/8/2024 21:37	46702	RENO_T1	2	2	0	3.15	3.2	0.05	-0.17	-0.15	0	0	0	0	0	0
9/8/2024 21:37	63804	HEMP_T1	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
9/8/2024 21:37	56501	ROCK_T2	87	82	-5	0.16	0.18	0.02	-1.39	-0.47	0	0	0	0	0	0
9/8/2024 21:37	63305	GREE_T1	14	13	-1	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
9/8/2024 21:37	58402	MORO_T1	0	0	0	0	0	0	0.14	0.09	1	1	0	900	900	0
9/8/2024 21:37	59101	WALK_T2	0	0	0	0	0	0	0.58	0.64	1	1	0	600	600	0
9/8/2024 21:37	46001	BERW_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
9/8/2024 21:37	45402	WBLO_T2	1	1	0	0.1	0.9	0.8	-1.22	-1.2	1	1	0	900	900	0
9/8/2024 21:37	24201	PROV_T3	96	232	136	0.2	0.19	-0.01	-1.51	-1.51	1	1	0	1200	1200	0
9/8/2024 21:37	63801	HEMP_T1	0	0	0	0	0	0	-0.25	-0.33	0	0	0	0	0	0
9/8/2024 21:37	60502	NMAN_T2	0	0	0	0	0	0	-0.5	-0.46	0	0	0	0	0	0
9/8/2024 21:37	45802	HEGI_T2	48	48	0	1.64	1.56	-0.08	0.55	0.54	0	0	0	0	0	0
9/8/2024 21:37	44801	EDAN_T2	208	198	-10	0.5	0.59	0.09	-3.47	-3.54	0	0	0	0	0	0
9/8/2024 21:38	50201	HARR_T3	1	1	0	0.9	1.1	0.2	-1.08	-1.05	1	1	0	1200	1200	0
9/8/2024 21:38	45303	WBER_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
9/8/2024 21:38	46504	LOHA_T1	3	45	42	0.67	0.37	-0.3	0	0	0	0	0	0	0	0
9/8/2024 21:38	65904	SAKR_T2	0	0	0	0	0	0	-2.23	-2.22	3	3	0	1500	1500	0
9/8/2024 21:38	65502	MOJO_T2	0	20	20	0	0.1	0.1	-1.25	-1.28	0	0	0	0	0	0
9/8/2024 21:38	67605	WARW_T1	41	46	5	0.53	0.63	0.1	-1.27	-1.33	0	0	0	0	0	0
9/8/2024 21:38	13704	SCHN_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
9/8/2024 21:38	12701	MACU_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
9/8/2024 21:38	44201	POIN_T1	63	161	98	0.15	0.2	0.05	-3.81	-3.68	2	2	0	2400	2400	0
9/8/2024 21:38	63801	HEMP_T1	0	0	0	0	0	0	-0.25	-0.33	0	0	0	0	0	0
9/8/2024 21:38	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:38	42802	SELI_T1	0	1	1	0	0.5	0.5	-0.52	-0.52	0	0	0	0	0	0
9/8/2024 21:38	12302	LANA_T2	0	0	0	0	0	0	-1.64	-1.64	2	2	0	1500	1500	0
9/8/2024 21:38	43102	SMIL_T2	4	7	3	0.5	0.56	0.06	-0.92	-0.91	1	1	0	600	600	0
9/8/2024 21:38	54001	SDLE_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 21:38	40702	FFLD_T1	0	0	0	0	0	0	-0.89	-0.83	0	0	0	0	0	0
9/8/2024 21:38	43202	MVIL_T2	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
9/8/2024 21:38	45302	WBER_T2	0	0	0	0	0	0	1.87	0.84	0	0	0	0	0	0
9/8/2024 21:38	50105	HARR_T3	6	6	0	7.3	7.17	-0.13	0	0	0	0	0	0	0	0
9/8/2024 21:38	43103	SMIL_T2	3	12	9	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
9/8/2024 21:38	46501	LOHA_T1	0	0	0	0	0	0	-0.16	-0.16	1	1	0	1200	1200	0
9/8/2024 21:38	63804	HEMP_T1	1	1	0	5.1	5.3	0.2	-0.54	0.76	0	0	0	0	0	0
9/8/2024 21:38	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.73	0	0	0	0	0	0
9/8/2024 21:38	53502	EVIL_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
9/8/2024 21:38	21206	ECAR_T2	1	1	0	8.2	8.2	0	1.39	1.4	0	0	0	0	0	0
9/8/2024 21:38	46506	LOHA_T1	4	4	0	4.28	4.6	0.32	0	0	0	0	0	0	0	0
9/8/2024 21:38	60701	BREC_T1	0	10	10	0	0.14	0.14	-1.1	-1.2	2	2	0	1200	1200	0
9/8/2024 21:38	50107	HARR_T3	1	1	0	6.8	6.4	-0.4	0	0	0	0	0	0	0	0
9/8/2024 21:38	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:38	64101	REFR_T1	0	3	3	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
9/8/2024 21:38	46004	BERW_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
9/8/2024 21:38	53501	EVIL_T2	2	4	2	0.6	0.55	-0.05	-0.01	-0.01	1	1	0	600	600	0
9/8/2024 21:38	65901	SAKR_T2	1	1	0	8.1	8.2	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:38	45501	DERR_T2	1	1	0	0.3	0.5	0.2	-0.93	-0.93	2	2	0	1800	1800	0
9/8/2024 21:38	22805	HAUT_T2	0	0	0	0	0	0	-0.6	-0.62	1	1	0	1200	1200	0
9/8/2024 21:38	56501	ROCK_T2	87	82	-5	0.16	0.18	0.02	-1.39	-0.47	0	0	0	0	0	0
9/8/2024 21:39	64503	LAVI_T1	0	0	0	0	0	0	-0.91	-0.88	1	1	0	1200	1200	0
9/8/2024 21:39	45402	WBLO_T2	1	1	0	0.1	0.9	0.8	-1.22	-1.2	1	1	0	900	900	0
9/8/2024 21:39	42802	SELI_T1	0	1	1	0	0.5	0.5	-0.52	-0.52	0	0	0	0	0	0
9/8/2024 21:39	44202	POIN_T2	0	0	0	0	0	0	-0.94	-0.95	1	1	0	1200	1200	0
9/8/2024 21:39	46801	HEPB_T2	3	18	15	0.67	0.26	-0.41	0.55	0.53	0	0	0	0	0	0
9/8/2024 21:39	47001	HUGH_T2	3	3	0	8.77	8.5	-0.27	-1.07	-0.99	0	0	0	0	0	0
9/8/2024 21:39	57403	SPAN_T1	0	10	10	0	0.16	0.16	0	0	0	0	0	0	0	0
9/8/2024 21:39	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 21:39	56503	ROCK_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:39	46803	HEPB_T2	1	7	6	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
9/8/2024 21:39	10701	CATA_T2	0	0	0	0	0	0	-0.77	-0.8	1	1	0	1200	1200	0
9/8/2024 21:39	43202	MVIL_T2	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
9/8/2024 21:39	66703	STRA_T1	0	2	2	0	0.15	0.15	-0.44	-0.47	0	0	0	0	0	0
9/8/2024 21:39	60101	COCA_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
9/8/2024 21:39	57401	SPAN_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	600	600	0
9/8/2024 21:39	11301	EMMA_T1	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
9/8/2024 21:39	56504	ROCK_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
9/8/2024 21:39	42201	SHEN_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
9/8/2024 21:39	22901	HARW_T1	0	0	0	0	0	0	-0.81	-0.85	1	1	0	1200	1200	0
9/8/2024 21:39	21501	CEAV_T2	0	0	0	0	0	0	0.51	0.46	0	0	0	0	0	0
9/8/2024 21:39	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.21	1	1	0	600	600	0
9/8/2024 21:40	42902	MIDD_T2	13	30	17	0.24	0.3	0.06	-0.72	-0.69	0	0	0	0	0	0
9/8/2024 21:40	54001	SDLE_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/8/2024 21:40	42802	SELI_T1	0	1	1	0	0.5	0.5	-0.52	-0.52	0	0	0	0	0	0
9/8/2024 21:40	42903	MIDD_T2	2	2	0	1.7	2	0.3	0	0	0	0	0	0	0	0
9/8/2024 21:40	46402	FLEM_T2	686	1006	320	0.34	0.56	0.22	-0.51	-0.5	0	0	0	0	0	0
9/8/2024 21:40	63304	GREE_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:40	46401	FLEM_T2	461	781	320	0.32	0.49	0.17	0	0	0	0	0	0	0	0
9/8/2024 21:40	44201	POIN_T1	63	161	98	0.15	0.2	0.05	-1.91	-1.84	1	1	0	1200	1200	0
9/8/2024 21:40	40601	PIGR_T1	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
9/8/2024 21:40	64902	MILL_T2	0	0	0	0	0	0	-1.28	-0.71	1	1	0	900	900	0
9/8/2024 21:40	40501	CRES_T2	3	10	7	0.2	0.23	0.03	0	0	0	0	0	0	0	0
9/8/2024 21:40	53802	MBRG_T2	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
9/8/2024 21:40	42201	SHEN_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
9/8/2024 21:40	63501	HEID_TBK1-2	49	49	0	0.58	0.43	-0.15	0.3	0.36	0	0	0	0	0	0
9/8/2024 21:40	63305	GREE_T1	14	13	-1	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
9/8/2024 21:40	40502	CRES_T2	21	76	55	0.28	0.36	0.08	-0.5	-0.52	0	0	0	0	0	0
9/8/2024 21:40	63302	GREE_T1	0	0	0	0	0	0	0.07	0.15	0	0	0	0	0	0
9/8/2024 21:40	46004	BERW_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
9/8/2024 21:41	56501	ROCK_T2	87	82	-5	0.16	0.18	0.02	-1.39	-0.47	0	0	0	0	0	0
9/8/2024 21:41	56503	ROCK_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:41	52404	GRPA_T2	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:41	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.21	1	1	0	600	600	0
9/8/2024 21:41	59101	WALK_T2	0	0	0	0	0	0	0.58	0.64	1	1	0	600	600	0
9/8/2024 21:41	46401	FLEM_T2	461	781	320	0.32	0.49	0.17	-0.51	-0.51	0	0	0	0	0	0
9/8/2024 21:41	52402	GRPA_T2	3	3	0	0.23	0.47	0.24	0	0	0	0	0	0	0	0
9/8/2024 21:41	52403	GRPA_T2	11	65	54	0.38	0.76	0.38	-0.29	-0.31	0	0	0	0	0	0
9/8/2024 21:41	46402	FLEM_T2	686	1006	320	0.34	0.56	0.22	-0.51	-0.5	0	0	0	0	0	0
9/8/2024 21:41	66504	SMAN_T2	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
9/8/2024 21:41	66505	SMAN_T2	3	3	0	0.27	0.63	0.36	0	0	0	0	0	0	0	0
9/8/2024 21:42	49803	UNIV_T1	1	1	0	5.4	6.1	0.7	-1.26	-1.25	0	0	0	0	0	0
9/8/2024 21:42	48901	FOSP_T2	0	0	0	0	0	0	-0.36	-0.42	1	1	0	600	600	0
9/8/2024 21:42	54001	SDLE_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 21:43	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.21	1	1	0	600	600	0
9/8/2024 21:44	43102	SMIL_T2	4	7	3	0.5	0.56	0.06	0	0	0	0	0	0	0	0
9/8/2024 21:44	40101	HUNT_T2	0	0	0	0	0	0	-0.69	-0.73	0	0	0	0	0	0
9/8/2024 21:44	44302	BEAV_T2	8	20	12	0.1	0.12	0.02	0	0	0	0	0	0	0	0
9/8/2024 21:44	44201	POIN_T1	63	161	98	0.15	0.2	0.05	-1.91	-1.84	1	1	0	1200	1200	0
9/8/2024 21:44	44301	BEAV_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/8/2024 21:44	45602	WOOL_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
9/8/2024 21:44	43103	SMIL_T2	3	12	9	0.33	0.31	-0.02	-0.98	-0.99	0	0	0	0	0	0
9/8/2024 21:47	28102	TWLA_T2	12	15	3	0.53	0.61	0.08	0.19	0.19	0	0	0	0	0	0
9/8/2024 21:47	14802	TREI_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
9/8/2024 21:49	14203	EALL_T1	0	0	0	0	0	0	0.79	0.83	0	0	0	0	0	0
9/8/2024 21:50	28805	LAKE_T1	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
9/8/2024 21:55	40101	HUNT_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
9/8/2024 22:12	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/8/2024 22:12	50103	HARR_T3	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/8/2024 22:12	50107	HARR_T3	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
9/8/2024 22:12	50201	HARR_T3	1	1	0	1.1	1.3	0.2	-1.07	-1.05	1	1	0	1200	1200	0
9/8/2024 22:12	50105	HARR_T3	6	6	0	7.17	6.85	-0.32	0	0	0	0	0	0	0	0
9/8/2024 22:13	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8/2024 22:51	54001	SDLE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/8/2024 23:05	10801	OHHI_T1	0	0	0	0	0	0	-0.9	-0.91	1	1	0	900	900	0
9/8/2024 23:53	67502	WEWI_T2	332	0	-332	0.23	0	-0.23	0	0	0	0	0	0	0	0
9/8/2024 23:53	67503	WEWI_T2	1	1	0	9.3	8.9	-0.4	-0.38	-0.37	0	0	0	0	0	0
9/9/2024 0:27	60701	BREC_T1	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
9/9/2024 0:59	16504	STRO_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
9/9/2024 1:52	46903	MNTG_T2	0	0	0	0	0	0	-0.29	-0.31	1	1	0	600	600	0
9/9/2024 7:24	10206	ALLE_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/9/2024 7:24	10702	CATA_T2	1	0	-1	0.1	0	-0.1	-0.43	-0.35	0	0	0	0	0	0
9/9/2024 7:24	10102	ALLE_T2	1	1	0	6	6.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 7:24	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 7:26	61503	EPET_T1	0	0	0	0	0	0	-1.28	-1.19	0	0	0	0	0	0
9/9/2024 7:28	62604	ENGL_T1	0	0	0	0	0	0	-0.46	-0.41	0	0	0	0	0	0
9/9/2024 7:32	12605	MACA_T1	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
9/9/2024 7:33	55001	NEWP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/9/2024 7:33	55002	NEWP_T1	5	6	1	0.72	0.88	0.16	-0.26	-0.26	0	0	0	0	0	0
9/9/2024 7:34	66505	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/9/2024 7:34	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 7:35	57403	SPAN_T1	20	33	13	0.19	0.24	0.05	0	0	0	0	0	0	0	0
9/9/2024 7:35	55002	NEWP_T1	5	6	1	0.72	0.88	0.16	-0.26	-0.26	0	0	0	0	0	0
9/9/2024 7:35	57401	SPAN_T1	2	4	2	0.15	0.33	0.18	-1.27	-1.26	1	1	0	600	600	0
9/9/2024 7:35	55001	NEWP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/9/2024 7:38	45901	AUBU_T1	0	0	0	0	0	0	1.26	1.25	0	0	0	0	0	0
9/9/2024 7:38	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/9/2024 7:38	67002	STHI_T2	0	0	0	0	0	0	1.15	1.15	0	0	0	0	0	0
9/9/2024 7:41	40504	CRES_T1	0	0	0	0	0	0	-0.63	-0.57	0	0	0	0	0	0
9/9/2024 7:42	11903	ETEX_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
9/9/2024 7:42	63306	GREE_T1	0	0	0	0	0	0	-1.26	-1.25	0	0	0	0	0	0
9/9/2024 7:42	63305	GREE_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/9/2024 7:45	63501	HEID_TBK1-2	5	36	31	0.44	0.31	-0.13	0.1	0.09	1	1	0	900	900	0
9/9/2024 7:46	52001	LING_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
9/9/2024 7:48	57004	WHHI_T2	0	0	0	0	0	0	-1.25	-1.25	0	0	0	0	0	0
9/9/2024 7:49	48301	ORWI_T1	2	2	0	5	5.2	0.2	-0.45	-0.36	1	1	0	900	900	0
9/9/2024 7:51	12807	MICK_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
9/9/2024 7:51	12802	MICK_T1	0	0	0	0	0	0	-1.28	-1.26	0	0	0	0	0	0
9/9/2024 7:52	66701	STRA_T1	0	1	1	0	0	0	0.13	0.06	1	1	0	600	600	0
9/9/2024 7:52	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 7:52	48301	ORWI_T1	2	2	0	5	5.2	0.2	-0.36	-0.39	1	1	0	900	900	0
9/9/2024 7:53	65702	RVIL_T2	0	0	0	0	0	0	-1.13	-1.13	1	1	0	600	600	0
9/9/2024 7:53	43102	SMIL_T2	9	9	0	0.67	0.96	0.29	-2.66	-2.65	3	3	0	1800	1800	0
9/9/2024 7:53	66701	STRA_T1	0	1	1	0	0	0	-0.13	-0.06	1	1	0	600	600	0
9/9/2024 7:53	43103	SMIL_T2	21	21	0	0.61	1.06	0.45	0	0	0	0	0	0	0	0
9/9/2024 7:53	43108	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 7:53	43105	SMIL_T2	2	14	12	0.1	0.26	0.16	0	0	0	0	0	0	0	0
9/9/2024 7:53	66703	STRA_T1	0	0	0	0	0	0	-0.26	-0.11	0	0	0	0	0	0
9/9/2024 7:53	20403	ASHF_T2	2	38	36	0.1	0.16	0.06	1	0.91	0	0	0	0	0	0
9/9/2024 7:53	20401	ASHF_T2	3	7	4	0.13	0.33	0.2	0	0	0	0	0	0	0	0
9/9/2024 7:54	14601	SWHI_T1	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
9/9/2024 7:57	40101	HUNT_T2	0	1	1	0	0	0	-0.25	-0.28	0	0	0	0	0	0
9/9/2024 7:57	12006	HATF_T1	0	0	0	0	0	0	0.64	0.81	1	1	0	1200	1200	0
9/9/2024 7:57	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 7:57	54203	PENN_T1	18	18	0	1.58	1.74	0.16	0.03	0.04	0	0	0	0	0	0
9/9/2024 7:57	40502	CRES_T2	0	5	5	0	0.1	0.1	-1.43	-1.44	0	0	0	0	0	0
9/9/2024 7:57	54201	PENN_T1	10	11	1	1.57	1.7	0.13	0	0	0	0	0	0	0	0
9/9/2024 7:58	67103	SPRI_T1	0	0	0	0	0	0	-0.04	-0.11	0	0	0	0	0	0
9/9/2024 7:58	53601	DALM_T2	1	1	0	0.4	0.4	0	0.43	0.43	0	0	0	0	0	0
9/9/2024 7:58	20201	JERM_T1	0	0	0	0	0	0	1.72	1.27	0	1	1	0	1200	1200
9/9/2024 7:59	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 7:59	40502	CRES_T2	0	5	5	0	0.1	0.1	-1.07	-1.08	0	0	0	0	0	0
9/9/2024 8:04	13904	SEID_T1	0	0	0	0	0	0	0.13	0.07	0	0	0	0	0	0
9/9/2024 8:04	48301	ORWI_T1	2	2	0	5.2	5	-0.2	-0.36	-0.39	1	1	0	900	900	0
9/9/2024 8:06	13904	SEID_T1	0	0	0	0	0	0	0.15	0.22	0	0	0	0	0	0
9/9/2024 8:06	67002	STHI_T2	0	0	0	0	0	0	0.58	0.66	0	0	0	0	0	0
9/9/2024 8:07	54203	PENN_T1	18	18	0	1.11	1.74	0.63	0.04	0.02	0	0	0	0	0	0
9/9/2024 8:07	13303	ORVI_T1	0	0	0	0	0	0	0.9	0.89	0	0	0	0	0	0
9/9/2024 8:07	54201	PENN_T1	10	11	1	1.11	1.7	0.59	0	0	0	0	0	0	0	0
9/9/2024 8:08	67002	STHI_T2	0	0	0	0	0	0	1.16	1.31	0	0	0	0	0	0
9/9/2024 8:09	10603	BLGL_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
9/9/2024 8:09	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 8:09	10206	ALLE_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
9/9/2024 8:09	10203	ALLE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 8:09	57104	SPHI_T2	1	2	1	1.7	0	-1.7	-2.37	-1.03	0	0	0	0	0	0
9/9/2024 8:09	57101	SPHI_T2	6	6	0	0.75	1.37	0.62	0	0	0	0	0	0	0	0
9/9/2024 8:09	10102	ALLE_T2	1	1	0	6.5	5.9	-0.6	0	0	0	0	0	0	0	0
9/9/2024 8:09	57106	SPHI_T2	3	3	0	1.2	1.97	0.77	0	0	0	0	0	0	0	0
9/9/2024 8:10	10206	ALLE_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
9/9/2024 8:10	10203	ALLE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 8:10	10102	ALLE_T2	1	1	0	6.5	5.9	-0.6	0	0	0	0	0	0	0	0
9/9/2024 8:10	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 8:11	10206	ALLE_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
9/9/2024 8:11	10102	ALLE_T2	1	1	0	6.5	5.9	-0.6	0	0	0	0	0	0	0	0
9/9/2024 8:11	45501	DERR_T2	1	1	0	0.2	0.4	0.2	0.46	0.57	2	2	0	1800	1800	0
9/9/2024 8:11	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 8:11	10203	ALLE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 8:11	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 8:12	45501	DERR_T2	1	1	0	0.2	0.4	0.2	0.46	0.57	2	2	0	1800	1800	0
9/9/2024 8:12	45502	DERR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 8:14	50105	HARR_T3	6	6	0	6.87	6.67	-0.2	0	0	0	0	0	0	0	0
9/9/2024 8:14	50103	HARR_T3	2	2	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
9/9/2024 8:14	50102	HARR_T3	2	17	15	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/9/2024 8:14	50107	HARR_T3	1	1	0	6.7	6.2	-0.5	0	0	0	0	0	0	0	0
9/9/2024 8:14	50201	HARR_T3	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
9/9/2024 8:16	12802	MICK_T1	0	0	0	0	0	0	-1.26	-1.25	0	0	0	0	0	0
9/9/2024 8:16	14201	EALL_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
9/9/2024 8:16	63501	HEID_TBK1-2	35	31	-4	0.35	0.31	-0.04	0.13	0.16	1	1	0	900	900	0
9/9/2024 8:16	12807	MICK_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
9/9/2024 8:17	12601	MACA_T1	0	0	0	0	0	0	0.68	0.76	0	0	0	0	0	0
9/9/2024 8:17	64903	MILL_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
9/9/2024 8:19	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/9/2024 8:20	64801	MONE_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/9/2024 8:20	64802	MONE_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
9/9/2024 8:21	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 8:21	67605	WARW_T1	24	26	2	0.63	0.65	0.02	0	0	0	0	0	0	0	0
9/9/2024 8:21	45602	WOOL_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
9/9/2024 8:21	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 8:22	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 8:23	67502	WEWI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/9/2024 8:23	67503	WEWI_T2	1	1	0	8.8	9.2	0.4	-0.28	-0.25	0	0	0	0	0	0
9/9/2024 8:23	45901	AUBU_T1	0	0	0	0	0	0	1.24	1.25	0	0	0	0	0	0
9/9/2024 8:23	45902	AUBU_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/9/2024 8:23	59101	WALK_T2	0	0	0	0	0	0	1.86	1.73	1	1	0	600	600	0
9/9/2024 8:24	67503	WEWI_T2	1	1	0	8.8	9.2	0.4	0	0	0	0	0	0	0	0
9/9/2024 8:24	67502	WEWI_T2	0	1	1	0	0.5	0.5	-0.29	-0.38	0	0	0	0	0	0
9/9/2024 8:25	67505	WEWI_T1	0	1	1	0	0.1	0.1	-0.31	-0.28	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/9/2024 8:25	67501	WEWI_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/9/2024 8:26	53502	EVIL_T2	0	0	0	0	0	0	0.48	0.54	1	1	0	600	600	0
9/9/2024 8:26	53501	EVIL_T2	2	1	-1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/9/2024 8:29	53501	EVIL_T2	2	1	-1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/9/2024 8:29	53502	EVIL_T2	0	0	0	0	0	0	0.48	0.54	1	1	0	600	600	0
9/9/2024 8:30	54501	ENOL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
9/9/2024 8:30	54506	ENOL_T2	0	0	0	0	0	0	-0.1	-0.06	1	1	0	600	600	0
9/9/2024 8:30	54505	ENOL_T2	1	1	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
9/9/2024 8:30	54502	ENOL_T2	1	2	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/9/2024 8:30	46602	LACR_T1	0	0	0	0	0	0	-0.96	-0.92	0	0	0	0	0	0
9/9/2024 8:30	54504	ENOL_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/9/2024 8:31	40902	JESH_T1	0	0	0	0	0	0	-0.57	-0.53	0	0	0	0	0	0
9/9/2024 8:31	23201	HIRU_T2	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
9/9/2024 8:31	11801	FRAN_T2	0	0	0	0	0	0	-0.12	-0.22	0	0	0	0	0	0
9/9/2024 8:31	40101	HUNT_T2	1	2	1	0.1	0.4	0.3	-0.22	-0.17	0	0	0	0	0	0
9/9/2024 8:32	52402	GRPA_T2	5	5	0	0.44	0.66	0.22	-0.92	-0.85	0	0	0	0	0	0
9/9/2024 8:32	52403	GRPA_T2	102	105	3	1.14	0.8	-0.34	0	0	0	0	0	0	0	0
9/9/2024 8:35	15203	SFAR_T2	180	206	26	0.4	0.37	-0.03	-2.75	-2.65	0	0	0	0	0	0
9/9/2024 8:36	15203	SFAR_T2	180	206	26	0.4	0.37	-0.03	-1.32	-1.3	0	0	0	0	0	0
9/9/2024 8:37	54206	PENN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 8:37	66703	STRA_T1	0	1	1	0	0.1	0.1	-0.19	-0.17	0	0	0	0	0	0
9/9/2024 8:37	54202	PENN_T2	0	0	0	0	0	0	0.6	0.64	0	0	0	0	0	0
9/9/2024 8:39	66703	STRA_T1	0	1	1	0	0.1	0.1	-0.19	-0.17	0	0	0	0	0	0
9/9/2024 8:40	44802	EDAN_T2	0	0	0	0	0	0	-1.53	-1.61	0	0	0	0	0	0
9/9/2024 8:40	44801	EDAN_T2	239	231	-8	0.68	0.7	0.02	0	0	0	0	0	0	0	0
9/9/2024 8:41	44801	EDAN_T2	239	231	-8	0.68	0.7	0.02	0	0	0	0	0	0	0	0
9/9/2024 8:41	44802	EDAN_T2	0	0	0	0	0	0	-1.53	-1.61	0	0	0	0	0	0
9/9/2024 8:42	44802	EDAN_T2	0	0	0	0	0	0	-0.77	-0.81	0	0	0	0	0	0
9/9/2024 8:42	44801	EDAN_T2	239	231	-8	0.68	0.7	0.02	0	0	0	0	0	0	0	0
9/9/2024 8:43	53901	HALI_T2	1	4	3	1.2	0.53	-0.67	-2.82	-2.74	0	0	0	0	0	0
9/9/2024 8:43	53902	HALI_T2	1	2	1	5.3	2.9	-2.4	0	0	0	0	0	0	0	0
9/9/2024 8:43	53903	HALI_T2	2	2	0	1	1.5	0.5	0	0	0	0	0	0	0	0
9/9/2024 8:44	44801	EDAN_T2	239	231	-8	0.68	0.7	0.02	-3.38	-3.38	0	0	0	0	0	0
9/9/2024 8:45	65401	MARI_T1	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
9/9/2024 8:45	44802	EDAN_T2	0	0	0	0	0	0	-0.77	-0.81	0	0	0	0	0	0
9/9/2024 8:45	67605	WARW_T1	25	20	-5	0.68	0.59	-0.09	0	0	0	0	0	0	0	0
9/9/2024 8:45	67604	WARW_T1	0	0	0	0	0	0	0.68	0.62	0	0	0	0	0	0
9/9/2024 8:45	53902	HALI_T2	1	2	1	5.4	2.9	-2.5	0	0	0	0	0	0	0	0
9/9/2024 8:45	53903	HALI_T2	2	2	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
9/9/2024 8:45	53901	HALI_T2	2	4	2	0.7	0.53	-0.17	-5.64	-5.48	0	0	0	0	0	0
9/9/2024 8:45	44801	EDAN_T2	228	215	-13	0.68	0.74	0.06	0	0	0	0	0	0	0	0
9/9/2024 8:46	53902	HALI_T2	1	2	1	5.4	2.9	-2.5	0	0	0	0	0	0	0	0
9/9/2024 8:46	64801	MONE_T2	1	1	0	0.8	0.9	0.1	0.2	0.17	0	0	0	0	0	0
9/9/2024 8:46	53901	HALI_T2	2	4	2	0.7	0.53	-0.17	-5.64	-5.48	0	0	0	0	0	0
9/9/2024 8:46	55101	WERT_T1	0	0	0	0	0	0	-1.08	-1.06	2	2	0	1500	1500	0
9/9/2024 8:46	53903	HALI_T2	2	2	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
9/9/2024 8:46	65401	MARI_T1	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
9/9/2024 8:47	53903	HALI_T2	2	2	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
9/9/2024 8:47	53902	HALI_T2	1	2	1	5.4	2.9	-2.5	0	0	0	0	0	0	0	0
9/9/2024 8:47	53901	HALI_T2	2	4	2	0.7	0.53	-0.17	-2.82	-2.74	0	0	0	0	0	0
9/9/2024 8:48	50201	HARR_T3	1	1	0	0.8	1	0.2	-1	-1.04	1	1	0	1200	1200	0
9/9/2024 8:48	13704	SCHN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/9/2024 8:48	50102	HARR_T3	13	22	9	0.15	0.22	0.07	0	0	0	0	0	0	0	0
9/9/2024 8:48	53903	HALI_T2	2	2	0	1.2	1.5	0.3	-0.19	-0.19	0	0	0	0	0	0
9/9/2024 8:48	13701	SCHN_T2	0	2	2	0	0.1	0.1	-0.11	-0.13	1	1	0	600	600	0
9/9/2024 8:48	50107	HARR_T3	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
9/9/2024 8:48	66501	SMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
9/9/2024 8:48	66502	SMAN_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
9/9/2024 8:48	53901	HALI_T2	2	4	2	0.7	0.53	-0.17	-1.41	-1.37	0	0	0	0	0	0
9/9/2024 8:48	66504	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 8:48	53902	HALI_T2	1	2	1	5.4	2.9	-2.5	0	0	0	0	0	0	0	0
9/9/2024 8:48	50105	HARR_T3	6	6	0	6.62	6.43	-0.19	0	0	0	0	0	0	0	0
9/9/2024 8:48	50103	HARR_T3	3	11	8	0.63	0.4	-0.23	0	0	0	0	0	0	0	0
9/9/2024 8:49	55001	NEWP_T1	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
9/9/2024 8:49	55002	NEWP_T1	7	6	-1	0.97	1.02	0.05	0	0	0	0	0	0	0	0
9/9/2024 8:49	65702	RVIL_T2	0	0	0	0	0	0	-1.1	-0.97	1	1	0	600	600	0
9/9/2024 8:50	15701	TANN_T1	1	2	1	4.6	2.35	-2.25	0	0	0	0	0	0	0	0
9/9/2024 8:50	15704	TANN_T1	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
9/9/2024 8:50	56501	ROCK_T2	2	6	4	0.6	0.5	-0.1	-0.13	-0.13	0	0	0	0	0	0
9/9/2024 8:51	15204	SFAR_T2	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
9/9/2024 8:51	15203	SFAR_T2	186	205	19	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
9/9/2024 8:51	47101	MARL_T1	0	0	0	0	0	0	-0.34	-0.4	0	0	0	0	0	0
9/9/2024 8:51	64801	MONE_T2	1	1	0	0.8	0.9	0.1	0.17	0.18	0	0	0	0	0	0
9/9/2024 8:51	56501	ROCK_T2	2	6	4	0.6	0.5	-0.1	-0.13	-0.13	0	0	0	0	0	0
9/9/2024 8:51	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/9/2024 8:52	13701	SCHN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 8:52	55002	NEWP_T1	7	6	-1	0.97	1.02	0.05	0	0	0	0	0	0	0	0
9/9/2024 8:52	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/9/2024 8:52	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
9/9/2024 8:52	55001	NEWP_T1	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
9/9/2024 8:52	13704	SCHN_T2	1	1	0	0.2	0.2	0	-0.33	-0.34	0	0	0	0	0	0
9/9/2024 8:53	61103	BERK_T5	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
9/9/2024 8:53	66502	SMAN_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
9/9/2024 8:53	66504	SMAN_T2	0	2	2	0	0.1	0.1	-0.52	-0.5	0	0	0	0	0	0
9/9/2024 8:53	61101	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 8:53	66501	SMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
9/9/2024 8:54	59101	WALK_T2	0	0	0	0	0	0	1.83	1.59	1	1	0	600	600	0
9/9/2024 8:54	59102	WALK_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
9/9/2024 8:55	61103	BERK_T5	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
9/9/2024 8:55	61101	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 8:56	11904	ETEX_T2	0	1	1	0	0.4	0.4	0.45	0.42	0	0	0	0	0	0
9/9/2024 8:57	61103	BERK_T5	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
9/9/2024 8:57	61101	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 8:59	11904	ETEX_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/9/2024 9:00	11904	ETEX_T2	0	1	1	0	0.8	0.8	0.23	0.21	0	0	0	0	0	0
9/9/2024 9:01	40602	PIGR_T1	1	0	-1	2.6	1.5	-1.1	0.09	0.07	1	1	0	600	600	0
9/9/2024 9:01	11507	FREE_T2	0	0	0	0	0	0	0.69	0.78	0	0	0	0	0	0
9/9/2024 9:01	40601	PIGR_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
9/9/2024 9:03	58202	NEWV_T1	0	0	0	0	0	0	0.17	0.32	0	0	0	0	0	0
9/9/2024 9:03	65901	SAKR_T2	1	1	0	7.1	7.3	0.2	-0.33	-0.34	0	0	0	0	0	0
9/9/2024 9:03	55503	HERS_T1	0	0	0	0	0	0	-1.59	-1.59	1	1	0	1200	1200	0
9/9/2024 9:04	14202	EALL_T2	3	2	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
9/9/2024 9:04	42903	MIDD_T2	2	2	0	0.45	0.45	0	-0.05	-0.13	1	1	0	1200	1200	0
9/9/2024 9:04	42902	MIDD_T2	0	7	7	0	0.21	0.21	0	0	0	0	0	0	0	0
9/9/2024 9:04	14204	EALL_T2	0	0	0	0	0	0	1.07	1.04	0	0	0	0	0	0
9/9/2024 9:05	65802	RTWN_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
9/9/2024 9:05	67503	WEWI_T2	1	1	0	9	9	0	-0.28	-0.25	0	0	0	0	0	0
9/9/2024 9:05	60502	NMAN_T2	0	0	0	0	0	0	-0.18	-0.11	0	0	0	0	0	0
9/9/2024 9:05	67501	WEWI_T1	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
9/9/2024 9:05	67505	WEWI_T1	1	1	0	0.2	0.1	-0.1	-0.24	-0.25	1	1	0	900	900	0
9/9/2024 9:05	58302	NOTT_T1	0	0	0	0	0	0	-0.26	-0.27	1	1	0	1200	1200	0
9/9/2024 9:05	60504	NMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 9:05	67502	WEWI_T2	1	0	-1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/9/2024 9:06	60504	NMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 9:06	52502	PROG_T2	1	1	0	0.1	0.1	0	-0.74	-0.72	1	1	0	900	900	0
9/9/2024 9:06	66703	STRA_T1	1	1	0	0.1	0.2	0.1	-0.14	-0.14	0	0	0	0	0	0
9/9/2024 9:06	66701	STRA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 9:06	60502	NMAN_T2	0	0	0	0	0	0	-0.22	-0.4	0	0	0	0	0	0
9/9/2024 9:08	42201	SHEN_T2	1	1	0	0.9	0	-0.9	0.45	0.43	0	0	0	0	0	0
9/9/2024 9:09	61101	BERK_T5	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/9/2024 9:09	61103	BERK_T5	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
9/9/2024 9:10	59102	WALK_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
9/9/2024 9:10	60101	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 9:10	59101	WALK_T2	0	0	0	0	0	0	1.59	1.53	1	1	0	600	600	0
9/9/2024 9:11	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 9:11	10705	CATA_T2	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
9/9/2024 9:11	60101	COCA_T1	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
9/9/2024 9:11	10702	CATA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/9/2024 9:11	10701	CATA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/9/2024 9:12	10702	CATA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/9/2024 9:12	61101	BERK_T5	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/9/2024 9:12	10701	CATA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/9/2024 9:12	61102	BERK_T5	0	0	0	0	0	0	0.64	0.68	1	1	0	300	300	0
9/9/2024 9:12	10705	CATA_T2	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
9/9/2024 9:14	61701	ELIZ_T1	1	2	1	4.4	2.4	-2	1.23	1.37	0	0	0	0	0	0
9/9/2024 9:15	46502	LOHA_T1	3	0	-3	5.77	5.7	-0.07	0	0	0	0	0	0	0	0
9/9/2024 9:15	46102	MACI_T1	0	0	0	0	0	0	0.75	0.73	0	0	0	0	0	0
9/9/2024 9:15	46505	LOHA_T1	0	0	0	0	0	0	0.23	0.3	0	0	0	0	0	0
9/9/2024 9:15	46504	LOHA_T1	2	3	1	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
9/9/2024 9:15	64704	LITI_T1	0	0	0	0	0	0	0.21	0.05	2	2	0	1200	1200	0
9/9/2024 9:16	67503	WEWI_T2	1	1	0	8.9	9.1	0.2	-0.25	-0.25	0	0	0	0	0	0
9/9/2024 9:16	67502	WEWI_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
9/9/2024 9:18	42902	MIDD_T2	0	7	7	0	0.21	0.21	-0.23	-0.31	0	0	0	0	0	0
9/9/2024 9:18	42903	MIDD_T2	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
9/9/2024 9:18	55508	HERS_T2	2	2	0	1.4	1.6	0.2	-2.48	-2.56	1	1	0	1200	1200	0
9/9/2024 9:19	55508	HERS_T2	2	2	0	1.4	1.6	0.2	-2.48	-2.56	1	1	0	1200	1200	0
9/9/2024 9:19	48302	ORWI_T2	2	2	0	1.05	1.05	0	-0.01	0.02	0	0	0	0	0	0
9/9/2024 9:20	14801	TREI_T2	1	3	2	0.1	0.3	0.2	0.37	0.38	0	0	0	0	0	0
9/9/2024 9:21	66504	SMAN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/9/2024 9:21	66502	SMAN_T2	4	2	-2	0.35	0.4	0.05	0	0	0	0	0	0	0	0
9/9/2024 9:21	66501	SMAN_T2	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
9/9/2024 9:22	67702	WERN_T2	0	1	1	0	0.1	0.1	0.69	0.72	0	0	0	0	0	0
9/9/2024 9:22	66502	SMAN_T2	4	2	-2	0.35	0.4	0.05	0	0	0	0	0	0	0	0
9/9/2024 9:22	66504	SMAN_T2	1	1	0	0.1	0.4	0.3	-0.42	-0.47	0	0	0	0	0	0
9/9/2024 9:22	66501	SMAN_T2	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
9/9/2024 9:22	67605	WARW_T1	18	15	-3	0.52	0.43	-0.09	-1.16	-1.12	0	0	0	0	0	0
9/9/2024 9:23	13704	SCHN_T2	0	1	1	0	0.3	0.3	-0.33	-0.33	0	0	0	0	0	0
9/9/2024 9:23	49803	UNIV_T1	1	1	0	5.5	5	-0.5	0	0	0	0	0	0	0	0
9/9/2024 9:23	49804	UNIV_T1	1	2	1	0.3	0.65	0.35	1.3	1.07	0	0	0	0	0	0
9/9/2024 9:23	13701	SCHN_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
9/9/2024 9:23	14801	TREI_T2	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/9/2024 9:23	14802	TREI_T2	0	0	0	0	0	0	0.52	0.46	0	0	0	0	0	0
9/9/2024 9:23	45902	AUBU_T1	0	1	1	0	0.8	0.8	-0.64	-0.63	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/9/2024 9:24	51306	WIND_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
9/9/2024 9:24	51304	WIND_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
9/9/2024 9:24	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 9:24	61303	EARL_T1	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
9/9/2024 9:24	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.38	0	0	0	0	0	0
9/9/2024 9:24	15703	TANN_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
9/9/2024 9:24	14801	TREI_T2	1	3	2	0.1	0.3	0.2	0.38	0.41	0	0	0	0	0	0
9/9/2024 9:25	66501	SMAN_T2	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
9/9/2024 9:25	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 9:25	20403	ASHF_T2	2	1	-1	0.15	0.1	-0.05	0.83	0.71	0	0	0	0	0	0
9/9/2024 9:25	66504	SMAN_T2	1	1	0	0.1	0.4	0.3	-0.83	-0.93	0	0	0	0	0	0
9/9/2024 9:25	20401	ASHF_T2	2	3	1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
9/9/2024 9:25	66502	SMAN_T2	4	2	-2	0.35	0.4	0.05	0	0	0	0	0	0	0	0
9/9/2024 9:26	13704	SCHN_T2	0	1	1	0	0.3	0.3	-0.33	-0.33	0	0	0	0	0	0
9/9/2024 9:26	13701	SCHN_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
9/9/2024 9:27	64602	LEOL_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
9/9/2024 9:27	10705	CATA_T2	0	1	1	0	0	0	0.04	0.01	0	0	0	0	0	0
9/9/2024 9:27	10701	CATA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/9/2024 9:28	45902	AUBU_T1	0	1	1	0	0.8	0.8	-0.64	-0.63	1	1	0	600	600	0
9/9/2024 9:28	40101	HUNT_T2	1	1	0	0.4	0.1	-0.3	-0.33	-0.32	0	0	0	0	0	0
9/9/2024 9:28	53501	EVIL_T2	3	1	-2	0.77	1	0.23	-0.01	-0.01	1	1	0	600	600	0
9/9/2024 9:29	46803	HEPB_T2	1	1	0	0.2	0.2	0	0.28	0.27	0	0	0	0	0	0
9/9/2024 9:29	53501	EVIL_T2	3	1	-2	0.77	1	0.23	-0.01	-0.01	2	2	0	1200	1200	0
9/9/2024 9:29	46801	HEPB_T2	3	3	0	0.77	0.73	-0.04	0	0	0	0	0	0	0	0
9/9/2024 9:29	63403	HONY_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
9/9/2024 9:30	53501	EVIL_T2	1	1	0	1	0.5	-0.5	-0.01	-0.01	2	2	0	1200	1200	0
9/9/2024 9:31	55507	HERS_T1	0	0	0	0	0	0	0.57	0.65	0	0	0	0	0	0
9/9/2024 9:31	67502	WEWI_T2	1	2	1	0.6	0.65	0.05	0	0	0	0	0	0	0	0
9/9/2024 9:31	67503	WEWI_T2	1	2	1	9	4.6	-4.4	-0.25	-0.27	0	0	0	0	0	0
9/9/2024 9:32	46801	HEPB_T2	3	2	-1	0.73	0.95	0.22	0.57	0.55	0	0	0	0	0	0
9/9/2024 9:32	46803	HEPB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/9/2024 9:34	42801	SELI_T1	0	0	0	0	0	0	-1.13	-1.13	1	1	0	1200	1200	0
9/9/2024 9:34	42302	MOWR_T2	0	0	0	0	0	0	1.12	1.11	0	0	0	0	0	0
9/9/2024 9:34	51701	OBER_T2	0	0	0	0	0	0	-0.35	-0.3	0	0	0	0	0	0
9/9/2024 9:34	43201	MVIL_T2	0	0	0	0	0	0	-1.35	-1.33	0	0	0	0	0	0
9/9/2024 9:34	13501	MCMI_T1	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
9/9/2024 9:34	13502	MCMI_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/9/2024 9:35	47402	PENS_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/9/2024 9:35	51701	OBER_T2	0	0	0	0	0	0	-0.35	-0.3	0	0	0	0	0	0
9/9/2024 9:35	47403	PENS_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
9/9/2024 9:35	16402	MOPO_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
9/9/2024 9:35	47401	PENS_T1	3	2	-1	0.43	0.55	0.12	0.36	0.39	0	0	0	0	0	0
9/9/2024 9:36	15203	SFAR_T2	175	142	-33	0.34	0.27	-0.07	-1.26	-1.28	0	0	0	0	0	0
9/9/2024 9:37	51701	OBER_T2	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
9/9/2024 9:40	42701	AUGU_T1	1	2	1	0.6	0.65	0.05	0	0	2	2	0	1800	1800	0
9/9/2024 9:42	20401	ASHF_T2	3	2	-1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/9/2024 9:42	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	0.71	0.95	0	0	0	0	0	0
9/9/2024 9:44	52006	LING_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
9/9/2024 9:44	52004	LING_T2	4	4	0	3.5	3.6	0.1	0.44	0.44	0	0	0	0	0	0
9/9/2024 9:44	40901	JESH_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/9/2024 9:44	40902	JESH_T1	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
9/9/2024 9:44	52002	LING_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
9/9/2024 9:46	40902	JESH_T1	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
9/9/2024 9:46	52002	LING_T2	1	1	0	1	0.9	-0.1	-0.22	-0.21	0	0	0	0	0	0
9/9/2024 9:46	52006	LING_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
9/9/2024 9:46	52004	LING_T2	4	4	0	3.55	3.53	-0.02	0	0	0	0	0	0	0	0
9/9/2024 9:46	40901	JESH_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/9/2024 9:47	64305	LINC_T1	0	0	0	0	0	0	-0.23	-0.06	0	0	0	0	0	0
9/9/2024 9:47	44703	MUNC_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/9/2024 9:48	52006	LING_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
9/9/2024 9:48	52002	LING_T2	1	1	0	1	0.9	-0.1	-0.22	-0.21	0	0	0	0	0	0
9/9/2024 9:48	52004	LING_T2	4	4	0	3.55	3.53	-0.02	0	0	0	0	0	0	0	0
9/9/2024 9:48	58402	MORO_T1	0	0	0	0	0	0	0.03	0.03	2	2	0	1500	1500	0
9/9/2024 9:48	53501	EVIL_T2	1	2	1	0.3	0.3	0	-0.01	-0.01	1	1	0	600	600	0
9/9/2024 9:49	52002	LING_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
9/9/2024 9:49	52006	LING_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
9/9/2024 9:49	52004	LING_T2	4	4	0	3.55	3.53	-0.02	0.44	0.44	0	0	0	0	0	0
9/9/2024 9:50	57403	SPAN_T1	22	64	42	0.21	0.2	-0.01	0.03	0.03	0	0	0	0	0	0
9/9/2024 9:50	53501	EVIL_T2	1	2	1	0.3	0.3	0	-0.01	-0.01	1	1	0	600	600	0
9/9/2024 9:50	54206	PENN_T2	0	1	1	0	0	0	0.09	0.18	0	0	0	0	0	0
9/9/2024 9:50	57401	SPAN_T1	12	35	23	0.59	0.41	-0.18	-1.07	-1.1	1	1	0	600	600	0
9/9/2024 9:51	54206	PENN_T2	0	1	1	0	0	0	0.09	0.18	0	0	0	0	0	0
9/9/2024 9:52	66502	SMAN_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/9/2024 9:52	66504	SMAN_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/9/2024 9:52	57403	SPAN_T1	22	64	42	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
9/9/2024 9:52	57401	SPAN_T1	12	35	23	0.59	0.41	-0.18	-1.1	-1.11	1	1	0	600	600	0
9/9/2024 9:52	66501	SMAN_T2	2	2	0	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
9/9/2024 9:53	14402	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/9/2024 9:53	14401	SSLA_T1	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
9/9/2024 9:53	14404	SSLA_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/9/2024 9:53	57401	SPAN_T1	12	35	23	0.59	0.41	-0.18	-2.21	-2.21	2	2	0	1200	1200	0
9/9/2024 9:53	57403	SPAN_T1	22	64	42	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
9/9/2024 9:54	57401	SPAN_T1	12	35	23	0.59	0.41	-0.18	-2.21	-2.21	2	2	0	1200	1200	0
9/9/2024 9:54	57403	SPAN_T1	22	64	42	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
9/9/2024 9:57	20601	GRWO_T2	51	27	-24	0.44	0.32	-0.12	1.27	1.27	0	0	0	0	0	0
9/9/2024 9:57	66503	SMAN_T2	0	0	0	0	0	0	0.44	0.52	0	0	0	0	0	0
9/9/2024 9:57	66504	SMAN_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/9/2024 9:57	66502	SMAN_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/9/2024 9:57	66501	SMAN_T2	2	2	0	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
9/9/2024 9:58	20601	GRWO_T2	51	27	-24	0.44	0.32	-0.12	1.27	1.27	0	0	0	0	0	0
9/9/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.46	0.49	0	0	0	0	0	0
9/9/2024 10:00	59202	THOM_T1	16	11	-5	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
9/9/2024 10:00	59001	MIFF_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/9/2024 10:00	51201	MTON_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
9/9/2024 10:00	52403	GRPA_T2	94	106	12	0.78	1.32	0.54	-0.1	-0.13	0	0	0	0	0	0
9/9/2024 10:00	55001	NEWP_T1	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
9/9/2024 10:00	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 10:00	53902	HALI_T2	1	3	2	4.5	1.8	-2.7	0	0	0	0	0	0	0	0
9/9/2024 10:00	44703	MUNC_T2	0	2	2	0	0.3	0.3	0.84	0.89	0	0	0	0	0	0
9/9/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
9/9/2024 10:00	55002	NEWP_T1	5	9	4	1.26	0.97	-0.29	0	0	0	0	0	0	0	0
9/9/2024 10:00	53903	HALI_T2	2	2	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
9/9/2024 10:00	52402	GRPA_T2	2	6	4	0.5	0.72	0.22	0	0	0	0	0	0	0	0
9/9/2024 10:00	53901	HALI_T2	1	3	2	0.6	0.5	-0.1	-0.46	-0.49	0	0	0	0	0	0
9/9/2024 10:00	57401	SPAN_T1	21	40	19	0.48	0.39	-0.09	-1.1	-1.11	1	1	0	600	600	0
9/9/2024 10:00	41902	REED_T1	1	1	0	0.1	0.1	0	1.02	1.07	0	0	0	0	0	0
9/9/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	-0.29	-0.14	0	0	0	0	0	0
9/9/2024 10:00	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:00	56501	ROCK_T2	3	5	2	0.57	0.4	-0.17	-0.09	-0.07	0	0	0	0	0	0
9/9/2024 10:00	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/9/2024 10:00	57403	SPAN_T1	64	28	-36	0.2	0.24	0.04	0	0	0	0	0	0	0	0
9/9/2024 10:00	57004	WHHI_T2	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
9/9/2024 10:01	55508	HERS_T2	2	2	0	1.6	1.6	0	0	0	0	0	0	0	0	0
9/9/2024 10:07	28102	TWLA_T2	14	15	1	0.45	0.58	0.13	0.21	0.2	0	0	0	0	0	0
9/9/2024 10:07	66502	SMAN_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/9/2024 10:07	66504	SMAN_T2	1	1	0	0.5	0.4	-0.1	-0.61	-0.5	0	0	0	0	0	0
9/9/2024 10:07	66501	SMAN_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/9/2024 10:08	66504	SMAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/9/2024 10:08	67503	WEWI_T2	2	1	-1	4.5	9.2	4.7	-0.23	-0.13	0	0	0	0	0	0
9/9/2024 10:08	66501	SMAN_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/9/2024 10:08	45901	AUBU_T1	0	0	0	0	0	0	1.3	1.36	0	0	0	0	0	0
9/9/2024 10:08	67502	WEWI_T2	2	6	4	0.65	0.48	-0.17	0	0	0	0	0	0	0	0
9/9/2024 10:08	55001	NEWP_T1	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
9/9/2024 10:08	66502	SMAN_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/9/2024 10:08	55002	NEWP_T1	5	9	4	1.26	0.97	-0.29	0	0	0	0	0	0	0	0
9/9/2024 10:08	45902	AUBU_T1	1	1	0	0.2	1.3	1.1	0	0	0	0	0	0	0	0
9/9/2024 10:09	66502	SMAN_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/9/2024 10:09	16101	BING_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
9/9/2024 10:09	66504	SMAN_T2	1	1	0	0.5	0.4	-0.1	-0.3	-0.25	0	0	0	0	0	0
9/9/2024 10:09	48302	ORWI_T2	2	2	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
9/9/2024 10:09	16102	BING_T2	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
9/9/2024 10:09	66501	SMAN_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/9/2024 10:09	16103	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:09	60101	COCA_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
9/9/2024 10:10	66505	SMAN_T2	0	0	0	0	0	0	0.87	0.67	1	1	0	900	900	0
9/9/2024 10:10	45502	DERR_T2	0	0	0	0	0	0	0.19	0.24	1	1	0	300	300	0
9/9/2024 10:10	66501	SMAN_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/9/2024 10:10	42601	TUSC_T1	0	0	0	0	0	0	-0.06	0.06	2	2	0	1800	1800	0
9/9/2024 10:10	13701	SCHN_T2	2	3	1	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
9/9/2024 10:10	66502	SMAN_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/9/2024 10:10	13704	SCHN_T2	1	1	0	0.2	0.2	0	-0.56	-0.59	0	0	0	0	0	0
9/9/2024 10:10	45902	AUBU_T1	1	1	0	0.2	1.3	1.1	-0.64	-0.61	1	1	0	600	600	0
9/9/2024 10:10	45501	DERR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:10	60101	COCA_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
9/9/2024 10:10	66504	SMAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/9/2024 10:11	53501	EVIL_T2	1	2	1	0.5	0.45	-0.05	-0.01	-0.01	1	1	0	600	600	0
9/9/2024 10:11	45901	AUBU_T1	0	0	0	0	0	0	1.3	1.36	0	0	0	0	0	0
9/9/2024 10:11	45902	AUBU_T1	1	1	0	0.2	1.3	1.1	-0.64	-0.61	1	1	0	600	600	0
9/9/2024 10:12	53501	EVIL_T2	1	2	1	0.5	0.45	-0.05	-0.01	-0.01	2	2	0	1200	1200	0
9/9/2024 10:13	23203	HIRU_T2	0	1	1	0	0.1	0.1	0.13	0.08	0	0	0	0	0	0
9/9/2024 10:13	23201	HIRU_T2	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
9/9/2024 10:13	60101	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 10:13	62607	ENGL_T1	0	3	3	0	0.23	0.23	-1.02	-1.08	1	1	0	300	300	0
9/9/2024 10:13	62605	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:13	23202	HIRU_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
9/9/2024 10:14	52006	LING_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/9/2024 10:14	52004	LING_T2	4	4	0	3.48	3.53	0.05	0	0	0	0	0	0	0	0
9/9/2024 10:14	52002	LING_T2	1	1	0	0.9	0.8	-0.1	-0.16	-0.21	0	0	0	0	0	0
9/9/2024 10:14	53601	DALM_T2	1	1	0	0.9	0.9	0	0.46	0.45	0	0	0	0	0	0
9/9/2024 10:15	50107	HARR_T3	1	1	0	6	6.4	0.4	0	0	0	0	0	0	0	0
9/9/2024 10:15	53502	EVIL_T2	0	0	0	0	0	0	0.63	0.55	1	1	0	600	600	0
9/9/2024 10:15	23203	HIRU_T2	0	1	1	0	0.1	0.1	0.13	0.08	0	0	0	0	0	0
9/9/2024 10:15	53501	EVIL_T2	2	2	0	0.2	0.45	0.25	-0.01	-0.01	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/9/2024 10:15	63501	HEID_TBK1-2	14	19	5	0.42	0.48	0.06	0.29	0.37	1	1	0	900	900	0
9/9/2024 10:15	50201	HARR_T3	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:15	52002	LING_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/9/2024 10:15	20601	GRWO_T2	20	10	-10	0.52	0.5	-0.02	1.27	1.27	0	0	0	0	0	0
9/9/2024 10:15	50102	HARR_T3	2	5	3	0.15	0.16	0.01	0	0	0	0	0	0	0	0
9/9/2024 10:15	23201	HIRU_T2	2	6	4	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
9/9/2024 10:15	50105	HARR_T3	6	6	0	6.6	6.42	-0.18	0	0	0	0	0	0	0	0
9/9/2024 10:15	52004	LING_T2	4	6	2	3.4	2.67	-0.73	0.42	0.43	0	0	0	0	0	0
9/9/2024 10:15	50103	HARR_T3	4	7	3	0.65	0.44	-0.21	0	0	0	0	0	0	0	0
9/9/2024 10:15	11507	FREE_T2	0	0	0	0	0	0	0.87	0.92	0	0	0	0	0	0
9/9/2024 10:15	52006	LING_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/9/2024 10:15	23202	HIRU_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
9/9/2024 10:16	53501	EVIL_T2	2	2	0	0.2	0.45	0.25	-0.01	-0.01	1	1	0	600	600	0
9/9/2024 10:16	40901	JESH_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:16	40902	JESH_T1	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
9/9/2024 10:16	52006	LING_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/9/2024 10:16	40101	HUNT_T2	1	1	0	0.4	0.3	-0.1	-0.14	-0.14	0	0	0	0	0	0
9/9/2024 10:16	52002	LING_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/9/2024 10:16	63501	HEID_TBK1-2	14	19	5	0.42	0.48	0.06	0.29	0.37	1	1	0	900	900	0
9/9/2024 10:16	52004	LING_T2	4	6	2	3.4	2.67	-0.73	0.84	0.87	0	0	0	0	0	0
9/9/2024 10:16	28403	HART_T2	0	0	0	0	0	0	-0.68	-0.64	1	1	0	900	900	0
9/9/2024 10:17	11904	ETEX_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
9/9/2024 10:17	52006	LING_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/9/2024 10:17	53801	MBRG_T2	0	7	7	0	4.6	4.6	0	0	0	0	0	0	0	0
9/9/2024 10:17	63501	HEID_TBK1-2	14	19	5	0.42	0.48	0.06	0.58	0.74	2	2	0	1800	1800	0
9/9/2024 10:17	52002	LING_T2	1	1	0	0.8	0.8	0	-0.16	-0.21	0	0	0	0	0	0
9/9/2024 10:17	11901	ETEX_T2	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
9/9/2024 10:17	42903	MIDD_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/9/2024 10:17	16402	MOPO_T1	0	0	0	0	0	0	0.11	0.24	0	0	0	0	0	0
9/9/2024 10:17	42902	MIDD_T2	0	2	2	0	0.1	0.1	-0.16	-0.32	0	0	0	0	0	0
9/9/2024 10:17	63302	GREE_T1	0	0	0	0	0	0	0.67	0.72	0	0	0	0	0	0
9/9/2024 10:17	53802	MBRG_T2	0	0	0	0	0	0	1.06	1	0	0	0	0	0	0
9/9/2024 10:17	52004	LING_T2	4	6	2	3.4	2.67	-0.73	0	0	0	0	0	0	0	0
9/9/2024 10:18	67502	WEWI_T2	2	7	5	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
9/9/2024 10:18	52006	LING_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/9/2024 10:18	64305	LINC_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
9/9/2024 10:18	42903	MIDD_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/9/2024 10:18	52002	LING_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/9/2024 10:18	42902	MIDD_T2	0	2	2	0	0.1	0.1	-0.16	-0.32	0	0	0	0	0	0
9/9/2024 10:18	48302	ORWI_T2	2	2	0	0.5	0.5	0	0.01	0.02	0	0	0	0	0	0
9/9/2024 10:18	52001	LING_T1	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
9/9/2024 10:18	52004	LING_T2	4	6	2	3.4	2.67	-0.73	0.42	0.43	0	0	0	0	0	0
9/9/2024 10:18	67503	WEWI_T2	1	1	0	8.8	9.2	0.4	-0.23	-0.13	0	0	0	0	0	0
9/9/2024 10:19	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/9/2024 10:19	57205	ROSS_T1	1	3	2	1.2	0.7	-0.5	0.18	0.19	0	0	0	0	0	0
9/9/2024 10:19	58402	MORO_T1	0	0	0	0	0	0	-0.01	-0.02	2	2	0	1500	1500	0
9/9/2024 10:19	58401	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:19	56501	ROCK_T2	3	5	2	0.57	0.2	-0.37	-0.13	-0.09	0	0	0	0	0	0
9/9/2024 10:20	43201	MVIL_T2	0	1	1	0	0.2	0.2	-1.33	-1.32	0	0	0	0	0	0
9/9/2024 10:20	57401	SPAN_T1	34	44	10	0.42	0.42	0	-1.11	-1.05	1	1	0	600	600	0
9/9/2024 10:20	58401	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:20	13901	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:20	21705	SUBU_T1	1	1	0	5.6	5.6	0	0.62	0.63	0	0	0	0	0	0
9/9/2024 10:20	12807	MICK_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/9/2024 10:20	12801	MICK_T1	0	0	0	0	0	0	-0.02	-0.09	0	0	0	0	0	0
9/9/2024 10:20	44202	POIN_T2	0	0	0	0	0	0	-0.55	-0.49	1	1	0	1200	1200	0
9/9/2024 10:20	13905	SEID_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
9/9/2024 10:20	58402	MORO_T1	0	0	0	0	0	0	-0.01	-0.02	2	2	0	1500	1500	0
9/9/2024 10:20	21701	SUBU_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
9/9/2024 10:20	57403	SPAN_T1	22	137	115	0.25	0.27	0.02	0	0	0	0	0	0	0	0
9/9/2024 10:21	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 10:21	59202	THOM_T1	0	11	11	0	0.23	0.23	0	0	0	0	0	0	0	0
9/9/2024 10:21	67503	WEWI_T2	1	1	0	8.8	9.2	0.4	0	0	0	0	0	0	0	0
9/9/2024 10:21	15203	SFAR_T2	103	136	33	0.24	0.26	0.02	-1.19	-1.19	0	0	0	0	0	0
9/9/2024 10:21	57401	SPAN_T1	34	44	10	0.42	0.42	0	-1.11	-1.05	1	1	0	600	600	0
9/9/2024 10:21	15204	SFAR_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:21	67502	WEWI_T2	2	7	5	0.65	0.5	-0.15	-0.2	-0.21	0	0	0	0	0	0
9/9/2024 10:21	57403	SPAN_T1	22	137	115	0.25	0.27	0.02	0.03	0.05	0	0	0	0	0	0
9/9/2024 10:22	57401	SPAN_T1	34	44	10	0.42	0.42	0	-1.05	-1.03	1	1	0	600	600	0
9/9/2024 10:22	42201	SHEN_T2	0	1	1	0	0	0	0.53	0.5	0	0	0	0	0	0
9/9/2024 10:22	56501	ROCK_T2	3	5	2	0.57	0.2	-0.37	-0.05	-0.06	0	0	0	0	0	0
9/9/2024 10:22	48302	ORWI_T2	2	2	0	0.5	0.5	0	0.02	0.07	0	0	0	0	0	0
9/9/2024 10:22	15203	SFAR_T2	103	136	33	0.24	0.26	0.02	-1.19	-1.19	0	0	0	0	0	0
9/9/2024 10:22	15204	SFAR_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:22	57403	SPAN_T1	22	137	115	0.25	0.27	0.02	0	0	0	0	0	0	0	0
9/9/2024 10:22	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/9/2024 10:23	57403	SPAN_T1	22	137	115	0.25	0.27	0.02	0	0	0	0	0	0	0	0
9/9/2024 10:23	56504	ROCK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/9/2024 10:23	15203	SFAR_T2	103	136	33	0.24	0.26	0.02	-2.38	-2.39	0	0	0	0	0	0
9/9/2024 10:23	15204	SFAR_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:23	59202	THOM_T1	0	11	11	0	0.23	0.23	0	0	0	0	0	0	0	0
9/9/2024 10:23	43103	SMIL_T2	22	24	2	0.63	0.74	0.11	0	0	0	0	0	0	0	0
9/9/2024 10:23	66504	SMAN_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:23	57401	SPAN_T1	34	44	10	0.42	0.42	0	-1.05	-1.03	1	1	0	600	600	0
9/9/2024 10:23	66501	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/9/2024 10:23	59101	WALK_T2	0	1	1	0	0	0	2.19	2.13	0	0	0	0	0	0
9/9/2024 10:23	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 10:23	56501	ROCK_T2	3	5	2	0.57	0.2	-0.37	-0.09	-0.11	0	0	0	0	0	0
9/9/2024 10:23	59102	WALK_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/9/2024 10:23	43102	SMIL_T2	4	5	1	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
9/9/2024 10:23	66502	SMAN_T2	1	1	0	0.8	1	0.2	0.26	0.24	0	0	0	0	0	0
9/9/2024 10:23	43104	SMIL_T2	3	3	0	0.23	0.43	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:23	43108	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 10:23	43105	SMIL_T2	3	3	0	0.43	0.57	0.14	0	0	0	0	0	0	0	0
9/9/2024 10:23	43101	SMIL_T2	1	1	0	0.9	1.1	0.2	-0.71	-0.7	0	0	0	0	0	0
9/9/2024 10:24	67603	WARW_T1	0	2	2	0	0.2	0.2	0	0.03	0	0	0	0	0	0
9/9/2024 10:24	15204	SFAR_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:24	59101	WALK_T2	0	1	1	0	0	0	4.39	4.26	0	0	0	0	0	0
9/9/2024 10:24	59102	WALK_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/9/2024 10:24	54206	PENN_T2	0	2	2	0	0.1	0.1	0.2	0.19	0	0	0	0	0	0
9/9/2024 10:24	44201	POIN_T1	0	0	0	0	0	0	-0.33	-0.75	2	2	0	2100	2100	0
9/9/2024 10:24	57403	SPAN_T1	22	137	115	0.25	0.27	0.02	0	0	0	0	0	0	0	0
9/9/2024 10:24	67605	WARW_T1	15	17	2	0.37	0.62	0.25	0	0	0	0	0	0	0	0
9/9/2024 10:24	15203	SFAR_T2	103	136	33	0.24	0.26	0.02	-1.19	-1.19	0	0	0	0	0	0
9/9/2024 10:24	10801	CHHI_T1	1	3	2	0.1	0.17	0.07	-0.63	-0.47	1	1	0	900	900	0
9/9/2024 10:24	57401	SPAN_T1	34	44	10	0.42	0.42	0	-3.14	-3.09	3	3	0	1800	1800	0
9/9/2024 10:25	20403	ASHF_T2	0	0	0	0	0	0	1.28	1.13	0	0	0	0	0	0
9/9/2024 10:25	57401	SPAN_T1	34	44	10	0.42	0.42	0	0	0	0	0	0	0	0	0
9/9/2024 10:25	57403	SPAN_T1	22	137	115	0.25	0.27	0.02	0.05	0.04	0	0	0	0	0	0
9/9/2024 10:25	15204	SFAR_T2	0	2	2	0	0.2	0.2	0.13	0.16	0	0	0	0	0	0
9/9/2024 10:25	15203	SFAR_T2	103	136	33	0.24	0.26	0.02	-1.19	-1.19	0	0	0	0	0	0
9/9/2024 10:25	67605	WARW_T1	15	17	2	0.37	0.62	0.25	-1.08	-1.07	0	0	0	0	0	0
9/9/2024 10:25	61001	DONV_T1	1	1	0	0.7	0.4	-0.3	-0.23	-0.24	0	0	0	0	0	0
9/9/2024 10:25	67603	WARW_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:25	20401	ASHF_T2	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
9/9/2024 10:26	57401	SPAN_T1	34	44	10	0.42	0.42	0	-1.05	-1.03	1	1	0	600	600	0
9/9/2024 10:26	15203	SFAR_T2	103	136	33	0.24	0.26	0.02	-1.19	-1.19	0	0	0	0	0	0
9/9/2024 10:26	15204	SFAR_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:26	57403	SPAN_T1	22	137	115	0.25	0.27	0.02	0	0	0	0	0	0	0	0
9/9/2024 10:27	11101	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 10:27	67603	WARW_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:27	11104	EGYP_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
9/9/2024 10:27	67605	WARW_T1	15	17	2	0.37	0.62	0.25	-1.08	-1.07	0	0	0	0	0	0
9/9/2024 10:27	11102	EGYP_T1	3	3	0	0.8	0.47	-0.33	0	0	0	0	0	0	0	0
9/9/2024 10:28	11104	EGYP_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
9/9/2024 10:28	11101	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 10:28	11102	EGYP_T1	3	3	0	0.8	0.47	-0.33	0	0	0	0	0	0	0	0
9/9/2024 10:28	20601	GRWO_T2	20	10	-10	0.52	0.5	-0.02	1.27	1.34	0	0	0	0	0	0
9/9/2024 10:30	57403	SPAN_T1	25	137	112	0.23	0.27	0.04	0	0	0	0	0	0	0	0
9/9/2024 10:30	17902	BART_T2	0	0	0	0	0	0	0.05	0.07	0	0	0	0	0	0
9/9/2024 10:30	57401	SPAN_T1	21	45	24	0.46	0.42	-0.04	-1.05	-1.03	1	1	0	600	600	0
9/9/2024 10:30	50701	SMEC_T1	2	2	0	0.1	0.2	0.1	0.35	0.41	0	0	0	0	0	0
9/9/2024 10:31	67603	WARW_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/9/2024 10:31	67605	WARW_T1	14	18	4	0.46	0.61	0.15	-1.08	-1.07	0	0	0	0	0	0
9/9/2024 10:32	26402	INOR_T1	0	0	0	0	0	0	-0.86	-0.78	1	1	0	600	600	0
9/9/2024 10:32	40902	JESH_T1	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
9/9/2024 10:32	26401	INOR_T1	2	4	2	4.3	2.25	-2.05	0	0	0	0	0	0	0	0
9/9/2024 10:32	40901	JESH_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/9/2024 10:32	63403	HONY_T2	0	0	0	0	0	0	0.19	0.15	1	1	0	600	600	0
9/9/2024 10:32	58202	NEWV_T1	0	0	0	0	0	0	0.22	0.32	0	0	0	0	0	0
9/9/2024 10:33	26803	JAFR_T1	0	1	1	0	0.3	0.3	-0.15	-0.18	1	1	0	900	900	0
9/9/2024 10:33	64202	KINZ_T1	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
9/9/2024 10:33	52403	GRPA_T2	105	105	0	1.33	1.11	-0.22	-0.2	-0.22	0	0	0	0	0	0
9/9/2024 10:33	52402	GRPA_T2	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/9/2024 10:33	64204	KINZ_T1	7	34	27	0.53	0.49	-0.04	0	0	0	0	0	0	0	0
9/9/2024 10:33	64203	KINZ_T1	0	0	0	0	0	0	1.06	0.84	2	2	0	900	900	0
9/9/2024 10:34	55002	NEWP_T1	7	9	2	1	0.92	-0.08	-0.19	-0.18	0	0	0	0	0	0
9/9/2024 10:35	64802	MONE_T2	3	4	1	0.37	0.35	-0.02	0.3	0.33	0	0	0	0	0	0
9/9/2024 10:35	67503	WEWI_T2	1	1	0	9.2	9	-0.2	-0.13	-0.19	0	0	0	0	0	0
9/9/2024 10:35	67502	WEWI_T2	6	6	0	0.48	0.55	0.07	-0.2	-0.21	0	0	0	0	0	0
9/9/2024 10:35	66701	STRA_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
9/9/2024 10:35	15704	TANN_T1	0	3	3	0	0.37	0.37	-0.23	-0.25	0	0	0	0	0	0
9/9/2024 10:35	64801	MONE_T2	3	4	1	0.47	0.25	-0.22	0	0	0	0	0	0	0	0
9/9/2024 10:35	15701	TANN_T1	2	2	0	2.85	2.9	0.05	0	0	0	0	0	0	0	0
9/9/2024 10:35	66703	STRA_T1	1	1	0	0.5	0.1	-0.4	-0.12	0.04	0	0	0	0	0	0
9/9/2024 10:36	64802	MONE_T2	3	4	1	0.37	0.35	-0.02	0.33	0.33	0	0	0	0	0	0
9/9/2024 10:36	64801	MONE_T2	3	4	1	0.47	0.25	-0.22	0.2	0.26	0	0	0	0	0	0
9/9/2024 10:36	23001	SAUO_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
9/9/2024 10:36	66703	STRA_T1	1	1	0	0.5	0.1	-0.4	0.09	-0.05	0	0	0	0	0	0
9/9/2024 10:36	23002	SAUO_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
9/9/2024 10:36	66701	STRA_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
9/9/2024 10:37	51306	WIND_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
9/9/2024 10:37	67402	WAKE_T2	0	0	0	0	0	0	-0.66	-0.63	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/9/2024 10:37	12302	LANA_T2	0	0	0	0	0	0	-1.67	-1.69	2	2	0	1500	1500	0
9/9/2024 10:37	12301	LANA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/9/2024 10:37	67401	WAKE_T2	1	2	1	0.3	0.75	0.45	0	0	0	0	0	0	0	0
9/9/2024 10:37	55002	NEWP_T1	7	9	2	1	0.92	-0.08	-0.18	-0.18	0	0	0	0	0	0
9/9/2024 10:37	51304	WIND_T2	1	1	0	0.1	1.6	1.5	0	0	0	0	0	0	0	0
9/9/2024 10:38	42701	AUGU_T1	2	4	2	0.65	0.55	-0.1	0	0	2	2	0	1800	1800	0
9/9/2024 10:38	66701	STRA_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
9/9/2024 10:38	51304	WIND_T2	1	1	0	0.1	1.6	1.5	-0.1	-0.05	0	0	0	0	0	0
9/9/2024 10:38	44301	BEAV_T2	1	2	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
9/9/2024 10:38	16102	BING_T2	5	6	1	0.4	0.57	0.17	-0.14	-0.13	1	1	0	1200	1200	0
9/9/2024 10:38	40201	BEGA_T2	4	4	0	0.28	0.33	0.05	0	0	0	0	0	0	0	0
9/9/2024 10:38	16103	BING_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
9/9/2024 10:38	66703	STRA_T1	1	1	0	0.5	0.1	-0.4	0.04	-0.02	0	0	0	0	0	0
9/9/2024 10:39	13701	SCHN_T2	2	7	5	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
9/9/2024 10:39	67603	WARW_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/9/2024 10:39	15702	TANN_T2	1	2	1	0.1	0.45	0.35	-0.37	-0.35	0	0	0	0	0	0
9/9/2024 10:39	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 10:39	13704	SCHN_T2	1	1	0	0.2	0.7	0.5	-0.29	-0.28	0	0	0	0	0	0
9/9/2024 10:39	40201	BEGA_T2	4	4	0	0.28	0.33	0.05	0	0	0	0	0	0	0	0
9/9/2024 10:39	67605	WARW_T1	14	18	4	0.46	0.61	0.15	-1.07	-1.05	0	0	0	0	0	0
9/9/2024 10:39	10103	ALLE_T3	1	1	0	2.6	5.3	2.7	0	0	0	0	0	0	0	0
9/9/2024 10:39	15703	TANN_T2	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
9/9/2024 10:40	66701	STRA_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
9/9/2024 10:40	40201	BEGA_T2	4	4	0	0.28	0.33	0.05	0	0	0	0	0	0	0	0
9/9/2024 10:40	15703	TANN_T2	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
9/9/2024 10:40	15702	TANN_T2	1	2	1	0.1	0.45	0.35	-0.37	-0.35	0	0	0	0	0	0
9/9/2024 10:40	66703	STRA_T1	1	1	0	0.5	0.1	-0.4	0.04	-0.02	0	0	0	0	0	0
9/9/2024 10:41	51301	WIND_T1	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
9/9/2024 10:41	40201	BEGA_T2	4	4	0	0.28	0.33	0.05	0	0	0	0	0	0	0	0
9/9/2024 10:41	65205	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 10:41	11301	EMMA_T1	0	0	0	0	0	0	-0.66	-0.74	0	0	0	0	0	0
9/9/2024 10:41	51305	WIND_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/9/2024 10:41	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 10:41	16103	BING_T2	1	1	0	0.2	0.7	0.5	-0.88	-0.87	2	2	0	1500	1500	0
9/9/2024 10:41	11303	EMMA_T1	1	3	2	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
9/9/2024 10:41	16102	BING_T2	5	6	1	0.4	0.57	0.17	0	0	0	0	0	0	0	0
9/9/2024 10:41	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 10:41	11302	EMMA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:41	54504	ENOL_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:41	54505	ENOL_T2	1	2	1	0.8	0.5	-0.3	-0.65	-0.65	1	1	0	600	600	0
9/9/2024 10:42	22805	HAUT_T2	0	0	0	0	0	0	-0.6	-0.63	1	1	0	1200	1200	0
9/9/2024 10:42	22905	HARW_T1	0	1	1	0	0.2	0.2	-0.71	-0.69	0	0	0	0	0	0
9/9/2024 10:42	64903	MILL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:42	64902	MILL_T2	1	0	-1	0.2	0	-0.2	-0.64	-0.53	1	1	0	900	900	0
9/9/2024 10:43	54505	ENOL_T2	1	2	1	0.8	0.5	-0.3	-0.65	-0.65	1	1	0	600	600	0
9/9/2024 10:43	54504	ENOL_T2	1	1	0	0.9	1.1	0.2	-1.84	-1.83	1	1	0	600	600	0
9/9/2024 10:43	16103	BING_T2	1	1	0	0.2	0.7	0.5	-0.88	-0.87	2	2	0	1500	1500	0
9/9/2024 10:43	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 10:43	16102	BING_T2	5	6	1	0.4	0.57	0.17	0	0	0	0	0	0	0	0
9/9/2024 10:44	45902	AUBU_T1	1	2	1	1.2	0.85	-0.35	-1.24	-1.14	2	2	0	1200	1200	0
9/9/2024 10:44	62607	ENGL_T1	3	2	-1	0.23	0.25	0.02	-1.07	-1.07	1	1	0	300	300	0
9/9/2024 10:44	62605	ENGL_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
9/9/2024 10:45	40101	HUNT_T2	1	3	2	0.3	0.37	0.07	-0.08	-0.12	0	0	0	0	0	0
9/9/2024 10:45	52006	LING_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/9/2024 10:45	62605	ENGL_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/9/2024 10:45	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 10:45	62607	ENGL_T1	2	1	-1	0.25	0.4	0.15	-1.07	-1.07	1	1	0	300	300	0
9/9/2024 10:45	52004	LING_T2	6	6	0	2.67	2.42	-0.25	0.44	0.44	0	0	0	0	0	0
9/9/2024 10:45	10103	ALLE_T3	1	1	0	6	5.3	-0.7	0	0	0	0	0	0	0	0
9/9/2024 10:45	52002	LING_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
9/9/2024 10:46	52004	LING_T2	6	6	0	2.67	2.42	-0.25	0	0	0	0	0	0	0	0
9/9/2024 10:46	63501	HEID_TBK1-2	15	40	25	0.59	0.4	-0.19	0.33	0.3	1	1	0	900	900	0
9/9/2024 10:46	52006	LING_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/9/2024 10:46	52002	LING_T2	1	1	0	0.8	0.7	-0.1	-0.13	-0.1	0	0	0	0	0	0
9/9/2024 10:47	50501	MECH_T1	4	4	0	0.73	0.2	-0.53	0	0	0	0	0	0	0	0
9/9/2024 10:47	40101	HUNT_T2	1	3	2	0.3	0.37	0.07	-0.08	-0.12	0	0	0	0	0	0
9/9/2024 10:47	53501	EVIL_T2	2	6	4	0.25	0.3	0.05	-0.01	-0.01	1	2	1	600	1500	900
9/9/2024 10:47	50502	MECH_T1	11	1	-10	0.38	2.5	2.12	-0.29	-0.26	1	1	0	900	900	0
9/9/2024 10:47	40902	JESH_T1	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
9/9/2024 10:47	50503	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/9/2024 10:47	50506	MECH_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
9/9/2024 10:47	40901	JESH_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/9/2024 10:48	52006	LING_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/9/2024 10:48	40101	HUNT_T2	1	3	2	0.3	0.37	0.07	-0.08	-0.12	0	0	0	0	0	0
9/9/2024 10:48	52002	LING_T2	1	1	0	0.8	0.7	-0.1	-0.13	-0.1	0	0	0	0	0	0
9/9/2024 10:48	52004	LING_T2	6	6	0	2.67	2.42	-0.25	0	0	0	0	0	0	0	0
9/9/2024 10:49	40901	JESH_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/9/2024 10:49	12605	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 10:49	12601	MACA_T1	1	2	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:49	12604	MACA_T1	1	3	2	0.1	0.2	0.1	0.33	0.34	0	0	0	0	0	0
9/9/2024 10:49	40902	JESH_T1	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
9/9/2024 10:51	67501	WEWI_T1	5	6	1	0.74	0.5	-0.24	0	0	0	0	0	0	0	0
9/9/2024 10:51	53501	EVIL_T2	2	6	4	0.25	0.3	0.05	-0.01	-0.01	1	2	1	600	1500	900
9/9/2024 10:51	67505	WEWI_T1	0	0	0	0	0	0	-0.19	-0.08	1	1	0	900	900	0
9/9/2024 10:52	42201	SHEN_T2	1	1	0	9.8	0	-9.8	0.48	0.49	0	0	0	0	0	0
9/9/2024 10:53	44301	BEAV_T2	2	2	0	0.25	0.5	0.25	0.81	0.86	2	2	0	1500	1500	0
9/9/2024 10:53	51304	WIND_T2	1	1	0	1.4	1.6	0.2	-0.05	0.02	0	0	0	0	0	0
9/9/2024 10:54	20401	ASHF_T2	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
9/9/2024 10:54	20403	ASHF_T2	0	0	0	0	0	0	1.36	1.31	0	0	0	0	0	0
9/9/2024 10:55	45501	DERR_T2	0	2	2	0	0.3	0.3	0.57	0.62	2	2	0	1800	1800	0
9/9/2024 10:55	67604	WARW_T1	17	18	1	0.62	0.51	-0.11	-1.05	-1.02	0	0	0	0	0	0
9/9/2024 10:55	14801	TREI_T2	1	3	2	0.4	0.23	-0.17	0.44	0.42	0	0	0	0	0	0
9/9/2024 10:55	67603	WARW_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:56	15203	SFAR_T2	74	103	29	0.25	0.26	0.01	-1.16	-1.13	0	0	0	0	0	0
9/9/2024 10:56	45501	DERR_T2	0	2	2	0	0.3	0.3	0.57	0.62	2	2	0	1800	1800	0
9/9/2024 10:56	40201	BEGA_T2	3	2	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/9/2024 10:56	15204	SFAR_T2	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
9/9/2024 10:57	44801	EDAN_T2	171	165	-6	0.68	0.64	-0.04	0	0	0	0	0	0	0	0
9/9/2024 10:57	44802	EDAN_T2	0	0	0	0	0	0	-2.05	-2.06	0	0	0	0	0	0
9/9/2024 10:57	67603	WARW_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/9/2024 10:57	67605	WARW_T1	17	18	1	0.62	0.51	-0.11	-1.05	-1.02	0	0	0	0	0	0
9/9/2024 10:58	44802	EDAN_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
9/9/2024 10:58	44801	EDAN_T2	171	165	-6	0.68	0.64	-0.04	0	0	0	0	0	0	0	0
9/9/2024 10:58	23201	HIRU_T2	0	5	5	0	0.18	0.18	0.18	0.18	0	0	0	0	0	0
9/9/2024 10:58	23202	HIRU_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/9/2024 11:01	62604	ENGL_T1	0	0	0	0	0	0	-0.59	-0.69	1	1	0	600	600	0
9/9/2024 11:01	44802	EDAN_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
9/9/2024 11:01	62607	ENGL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/9/2024 11:01	44801	EDAN_T2	163	167	4	0.65	0.62	-0.03	-1.59	-1.58	0	0	0	0	0	0
9/9/2024 11:02	44801	EDAN_T2	163	167	4	0.65	0.62	-0.03	0	0	0	0	0	0	0	0
9/9/2024 11:02	44802	EDAN_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
9/9/2024 11:04	55002	NEWP_T1	8	9	1	1.03	0.89	-0.14	-0.18	-0.19	0	0	0	0	0	0
9/9/2024 11:07	67401	WAKE_T2	1	5	4	1	0.5	-0.5	0	0	0	0	0	0	0	0
9/9/2024 11:07	67402	WAKE_T2	0	0	0	0	0	0	-0.22	0.48	1	1	0	600	600	0
9/9/2024 11:07	24801	VALM_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/9/2024 11:07	40201	BEGA_T2	2	4	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
9/9/2024 11:08	42601	TUSC_T1	0	1	1	0	0	0	0.11	0.05	2	2	0	1800	1800	0
9/9/2024 11:09	60101	COCA_T1	1	2	1	0.2	0.45	0.25	0.77	0.64	0	0	0	0	0	0
9/9/2024 11:10	55105	WERT_T1	0	0	0	0	0	0	0.45	0.43	1	1	0	900	900	0
9/9/2024 11:10	15001	BLMO_T1	0	5	5	0	0.22	0.22	0	0	0	0	0	0	0	0
9/9/2024 11:10	10103	ALLE_T3	1	1	0	5.3	5.9	0.6	0	0	0	0	0	0	0	0
9/9/2024 11:10	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 11:10	60101	COCA_T1	1	2	1	0.2	0.45	0.25	0.77	0.64	0	0	0	0	0	0
9/9/2024 11:11	46004	BERW_T2	0	1	1	0	0	0	-0.25	-0.25	0	0	0	0	0	0
9/9/2024 11:11	60101	COCA_T1	1	2	1	0.2	0.45	0.25	0.39	0.32	0	0	0	0	0	0
9/9/2024 11:11	42701	AUGU_T1	4	5	1	0.55	0.42	-0.13	0	0	2	2	0	1800	1800	0
9/9/2024 11:12	42701	AUGU_T1	4	5	1	0.55	0.42	-0.13	0	0	2	2	0	1800	1800	0
9/9/2024 11:12	62105	ELAN_T1	3	3	0	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
9/9/2024 11:12	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 11:12	62102	ELAN_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/9/2024 11:12	62106	ELAN_T1	0	0	0	0	0	0	0.96	0.85	0	0	0	0	0	0
9/9/2024 11:13	60101	COCA_T1	1	2	1	0.2	0.45	0.25	0.39	0.32	0	0	0	0	0	0
9/9/2024 11:13	46004	BERW_T2	0	1	1	0	0	0	-0.25	-0.25	0	0	0	0	0	0
9/9/2024 11:14	60101	COCA_T1	1	2	1	0.2	0.45	0.25	0.39	0.32	0	0	0	0	0	0
9/9/2024 11:15	57101	SPHI_T2	0	6	6	0	0.42	0.42	0	0	0	0	0	0	0	0
9/9/2024 11:15	57106	SPHI_T2	3	3	0	1.07	0.93	-0.14	0	0	0	0	0	0	0	0
9/9/2024 11:15	57104	SPHI_T2	1	3	2	0.7	0.65	-0.05	-0.39	-0.39	0	0	0	0	0	0
9/9/2024 11:15	14204	EALL_T2	0	0	0	0	0	0	1.07	1.15	0	0	0	0	0	0
9/9/2024 11:16	28701	HAML_T2	2	3	1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
9/9/2024 11:16	55507	HERS_T1	0	0	0	0	0	0	0.67	0.7	0	0	0	0	0	0
9/9/2024 11:16	28703	HAML_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 11:16	28702	HAML_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
9/9/2024 11:16	28704	HAML_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 11:17	16402	MOPO_T1	0	0	0	0	0	0	0.35	0.3	0	0	0	0	0	0
9/9/2024 11:18	45902	AUBU_T1	3	3	0	0.63	0.87	0.24	0	0	0	0	0	0	0	0
9/9/2024 11:18	45901	AUBU_T1	0	0	0	0	0	0	1.41	1.37	0	0	0	0	0	0
9/9/2024 11:19	53501	EVIL_T2	3	2	-1	0.3	0.55	0.25	-0.01	-0.01	2	2	0	1200	1200	0
9/9/2024 11:20	42802	SELI_T1	0	0	0	0	0	0	-1.16	-1.17	1	1	0	900	900	0
9/9/2024 11:21	59201	THOM_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/9/2024 11:21	59202	THOM_T1	8	23	15	0.26	0.4	0.14	0	0	0	0	0	0	0	0
9/9/2024 11:21	13303	ORVI_T1	1	3	2	0.1	0.2	0.1	1.16	1.16	0	0	0	0	0	0
9/9/2024 11:22	45402	WBLO_T2	36	49	13	0.26	0.29	0.03	-1.08	-1.1	1	1	0	900	900	0
9/9/2024 11:22	42802	SELI_T1	0	0	0	0	0	0	-1.17	-1.08	1	1	0	900	900	0
9/9/2024 11:23	42802	SELI_T1	0	0	0	0	0	0	-1.17	-1.08	1	1	0	900	900	0
9/9/2024 11:24	42802	SELI_T1	0	0	0	0	0	0	-1.17	-1.08	1	1	0	900	900	0
9/9/2024 11:24	20403	ASHF_T2	0	11	11	0	0.51	0.51	1.16	1.33	0	0	0	0	0	0
9/9/2024 11:24	20401	ASHF_T2	1	3	2	0.1	0.25	0.15	0	0	0	0	0	0	0	0
9/9/2024 11:25	42802	SELI_T1	0	0	0	0	0	0	-2.35	-2.16	2	2	0	1800	1800	0
9/9/2024 11:26	42802	SELI_T1	0	0	0	0	0	0	-1.17	-1.08	1	1	0	900	900	0
9/9/2024 11:28	25402	LAHA_T2	87	110	23	0.21	0.25	0.04	-0.85	-0.86	0	0	0	0	0	0
9/9/2024 11:29	63601	LETO_T1	0	3	3	0	0.37	0.37	0.55	0.6	1	1	0	900	900	0
9/9/2024 11:29	51603	DUKE_T1	2	3	1	0.3	0.43	0.13	-0.94	-0.97	0	0	0	0	0	0
9/9/2024 11:31	23403	HONE_T1	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/9/2024 11:32	63602	LETO_T1	0	1	1	0	0.1	0.1	-0.19	-0.23	0	0	0	0	0	0
9/9/2024 11:32	63601	LETO_T1	2	3	1	0.25	0.43	0.18	0	0	0	0	0	0	0	0
9/9/2024 11:32	42501	ALTA_T2	0	0	0	0	0	0	0.21	0.25	1	1	0	600	600	0
9/9/2024 11:33	63601	LETO_T1	2	3	1	0.25	0.43	0.18	0	0	0	0	0	0	0	0
9/9/2024 11:33	12601	MACA_T1	0	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0
9/9/2024 11:33	12604	MACA_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
9/9/2024 11:33	63602	LETO_T1	0	1	1	0	0.1	0.1	-0.19	-0.23	0	0	0	0	0	0
9/9/2024 11:33	12605	MACA_T1	0	1	1	0	0.4	0.4	0.54	0.54	0	0	0	0	0	0
9/9/2024 11:34	51603	DUKE_T1	2	3	1	0.45	0.5	0.05	-0.47	-0.48	0	0	0	0	0	0
9/9/2024 11:35	45902	AUBU_T1	3	3	0	0.87	0.6	-0.27	0	0	0	0	0	0	0	0
9/9/2024 11:35	45901	AUBU_T1	0	0	0	0	0	0	1.37	1.32	0	0	0	0	0	0
9/9/2024 11:36	59202	THOM_T1	7	25	18	0.19	0.38	0.19	0	0	0	0	0	0	0	0
9/9/2024 11:37	14802	TREI_T2	1	3	2	0.1	0.23	0.13	0.55	0.6	0	0	0	0	0	0
9/9/2024 11:37	14801	TREI_T2	1	6	5	0.2	0.55	0.35	0	0	0	0	0	0	0	0
9/9/2024 11:37	59202	THOM_T1	7	25	18	0.19	0.38	0.19	0	0	0	0	0	0	0	0
9/9/2024 11:38	58201	NEWV_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/9/2024 11:38	58202	NEWV_T1	0	0	0	0	0	0	0.33	0.6	0	0	0	0	0	0
9/9/2024 11:39	67602	WARW_T2	0	0	0	0	0	0	2.64	2.45	2	2	0	600	600	0
9/9/2024 11:39	59202	THOM_T1	7	25	18	0.19	0.38	0.19	0	0	0	0	0	0	0	0
9/9/2024 11:40	53903	HALI_T2	2	6	4	0.7	0.52	-0.18	0	0	0	0	0	0	0	0
9/9/2024 11:40	53902	HALI_T2	3	3	0	1.67	2.13	0.46	-0.21	-0.2	0	0	0	0	0	0
9/9/2024 11:40	53901	HALI_T2	3	3	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/9/2024 11:40	40201	BEGA_T2	4	10	6	0.33	0.36	0.03	0	0	0	0	0	0	0	0
9/9/2024 11:40	14802	TREI_T2	1	3	2	0.1	0.23	0.13	0.55	0.6	0	0	0	0	0	0
9/9/2024 11:40	14801	TREI_T2	1	6	5	0.2	0.55	0.35	0	0	0	0	0	0	0	0
9/9/2024 11:41	12302	LANA_T2	0	0	0	0	0	0	-1.65	-1.63	2	2	0	1500	1500	0
9/9/2024 11:41	67602	WARW_T2	0	0	0	0	0	0	2.64	2.45	2	2	0	600	600	0
9/9/2024 11:42	24104	EHAZ_T1	2	4	2	0.3	0.4	0.1	-0.75	-0.74	1	1	0	1200	1200	0
9/9/2024 11:42	47203	FAXO_T2	0	0	0	0	0	0	-1.5	-1.54	1	1	0	1200	1200	0
9/9/2024 11:42	67602	WARW_T2	0	0	0	0	0	0	1.32	1.23	1	1	0	300	300	0
9/9/2024 11:42	24105	EHAZ_T1	4	4	0	5.98	5.93	-0.05	0	0	0	0	0	0	0	0
9/9/2024 11:42	24101	EHAZ_T1	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
9/9/2024 11:43	67602	WARW_T2	0	0	0	0	0	0	3.96	3.68	3	3	0	900	900	0
9/9/2024 11:45	11101	EGYP_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/9/2024 11:45	11102	EGYP_T1	3	0	-3	0.73	0	-0.73	0	0	0	0	0	0	0	0
9/9/2024 11:45	11104	EGYP_T1	0	1	1	0	0	0	0.63	0.66	0	0	0	0	0	0
9/9/2024 11:46	11601	CEAL_T1	1	1	0	0.8	0.7	-0.1	0	0	1	1	0	1200	1200	0
9/9/2024 11:47	10503	CRAC_T1	1	2	1	0.2	0.35	0.15	-0.87	-0.83	0	0	0	0	0	0
9/9/2024 11:47	52002	LING_T2	1	1	0	0.3	0.4	0.1	-0.08	-0.08	0	0	0	0	0	0
9/9/2024 11:47	52004	LING_T2	6	7	1	2.57	2.43	-0.14	0	0	0	0	0	0	0	0
9/9/2024 11:47	52006	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 11:48	59202	THOM_T1	23	19	-4	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
9/9/2024 11:48	59201	THOM_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
9/9/2024 11:48	10503	CRAC_T1	1	2	1	0.2	0.35	0.15	-0.87	-0.83	0	0	0	0	0	0
9/9/2024 11:48	12701	MACU_T1	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
9/9/2024 11:48	11601	CEAL_T1	1	1	0	0.8	0.7	-0.1	0	0	1	1	0	1200	1200	0
9/9/2024 11:49	10903	COOP_T2	2	12	10	0.7	0.27	-0.43	-0.04	-0.05	1	1	0	600	600	0
9/9/2024 11:49	52002	LING_T2	1	1	0	0.3	0.4	0.1	-0.08	-0.08	0	0	0	0	0	0
9/9/2024 11:49	58101	NEKI_T1	3	5	2	0.77	0.86	0.09	0	0	0	0	0	0	0	0
9/9/2024 11:49	52006	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 11:49	65004	NEFF_T2	1	3	2	0.4	0.13	-0.27	-0.49	-0.49	0	0	0	0	0	0
9/9/2024 11:49	41901	REED_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/9/2024 11:49	45801	HEGI_T1	1	1	0	0.2	0.5	0.3	0.13	0.04	1	1	0	900	900	0
9/9/2024 11:49	41902	REED_T1	3	5	2	0.27	0.42	0.15	0	0	0	0	0	0	0	0
9/9/2024 11:49	52004	LING_T2	6	7	1	2.57	2.43	-0.14	0	0	0	0	0	0	0	0
9/9/2024 11:49	65003	NEFF_T2	2	4	2	0.35	0.55	0.2	0	0	0	0	0	0	0	0
9/9/2024 11:49	10901	COOP_T2	2	3	1	0.53	0.53	0.23	0	0	0	0	0	0	0	0
9/9/2024 11:49	12701	MACU_T1	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
9/9/2024 11:49	65005	NEFF_T2	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/9/2024 11:49	58102	NEKI_T1	2	3	1	1	0.9	-0.1	-0.78	-0.81	1	1	0	1200	1200	0
9/9/2024 11:50	52004	LING_T2	6	7	1	2.57	2.43	-0.14	0	0	0	0	0	0	0	0
9/9/2024 11:50	52006	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 11:50	52002	LING_T2	1	1	0	0.3	0.4	0.1	-0.08	-0.08	0	0	0	0	0	0
9/9/2024 11:50	65001	NEFF_T2	0	0	0	0	0	0	-0.55	-0.58	1	1	0	1200	1200	0
9/9/2024 11:50	55002	NEWP_T1	10	11	1	0.93	0.9	-0.03	0	0	0	0	0	0	0	0
9/9/2024 11:50	65003	NEFF_T2	2	4	2	0.35	0.55	0.2	0	0	0	0	0	0	0	0
9/9/2024 11:50	55001	NEWP_T1	4	1	-3	0.25	0.3	0.05	-0.04	-0.02	0	0	0	0	0	0
9/9/2024 11:50	65004	NEFF_T2	1	3	2	0.4	0.13	-0.27	0	0	0	0	0	0	0	0
9/9/2024 11:50	65005	NEFF_T2	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/9/2024 11:51	55001	NEWP_T1	4	1	-3	0.25	0.3	0.05	-0.04	-0.02	0	0	0	0	0	0
9/9/2024 11:51	55002	NEWP_T1	10	11	1	0.93	0.9	-0.03	0	0	0	0	0	0	0	0
9/9/2024 11:52	66502	SMAN_T2	4	13	9	0.38	0.47	0.09	0	0	0	0	0	0	0	0
9/9/2024 11:52	66504	SMAN_T2	1	3	2	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
9/9/2024 11:52	66501	SMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
9/9/2024 11:52	66503	SMAN_T2	0	1	1	0	0.2	0.2	0.45	0.47	0	0	0	0	0	0
9/9/2024 11:53	57403	SPAN_T1	32	151	119	0.28	0.3	0.02	0.11	0.11	0	0	0	0	0	0
9/9/2024 11:53	57401	SPAN_T1	34	98	64	0.45	0.41	-0.04	0	0	0	0	0	0	0	0
9/9/2024 11:53	55105	WERT_T1	0	0	0	0	0	0	-0.41	-0.4	1	1	0	900	900	0
9/9/2024 11:54	59202	THOM_T1	23	19	-4	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
9/9/2024 11:54	59201	THOM_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
9/9/2024 11:55	57403	SPAN_T1	32	151	119	0.28	0.3	0.02	0	0	0	0	0	0	0	0
9/9/2024 11:55	59202	THOM_T1	23	19	-4	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
9/9/2024 11:55	59201	THOM_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
9/9/2024 11:55	57401	SPAN_T1	34	98	64	0.45	0.41	-0.04	-0.96	-0.91	1	1	0	600	600	0
9/9/2024 11:56	29202	APPE_T1	126	118	-8	0.44	0.38	-0.06	0	0	0	0	0	0	0	0
9/9/2024 11:56	62105	ELAN_T1	4	4	0	0.38	0.58	0.2	0	0	0	0	0	0	0	0
9/9/2024 11:56	29201	APPE_T1	2	2	0	0.85	1.05	0.2	0	0	0	0	0	0	0	0
9/9/2024 11:56	24801	VALM_T1	1	1	0	0.5	0.7	0.2	-0.25	-0.26	0	0	0	0	0	0
9/9/2024 11:56	62102	ELAN_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
9/9/2024 11:57	62607	ENGL_T1	1	5	4	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
9/9/2024 11:57	62605	ENGL_T1	1	8	7	0.2	0.33	0.13	0	0	0	0	0	0	0	0
9/9/2024 11:57	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 11:57	61801	EELI_T2	0	0	0	0	0	0	-0.56	-0.55	1	1	0	600	600	0
9/9/2024 11:57	62606	ENGL_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
9/9/2024 11:57	62604	ENGL_T1	0	0	0	0	0	0	-0.66	-0.54	1	1	0	600	600	0
9/9/2024 11:58	62606	ENGL_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
9/9/2024 11:58	62605	ENGL_T1	1	8	7	0.2	0.33	0.13	0	0	0	0	0	0	0	0
9/9/2024 11:58	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 11:58	62607	ENGL_T1	1	5	4	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
9/9/2024 11:58	62604	ENGL_T1	0	0	0	0	0	0	-0.66	-0.54	1	1	0	600	600	0
9/9/2024 11:59	60801	BUCK_T1	1	21	20	0.1	0.23	0.13	0.03	-0.14	0	0	0	0	0	0
9/9/2024 11:59	60803	BUCK_T1	0	13	13	0	0.25	0.25	0	0	0	0	0	0	0	0
9/9/2024 12:00	62607	ENGL_T1	2	5	3	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/9/2024 12:00	64203	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 12:00	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 12:00	64204	KINZ_T1	1	2	1	0.6	0.6	0	0	0	0	0	0	0	0	0
9/9/2024 12:00	62604	ENGL_T1	0	0	0	0	0	0	-0.66	-0.54	1	1	0	600	600	0
9/9/2024 12:00	64202	KINZ_T1	3	3	0	0.27	0.7	0.43	0	0	0	0	0	0	0	0
9/9/2024 12:00	62605	ENGL_T1	1	9	8	0.2	0.31	0.11	0	0	0	0	0	0	0	0
9/9/2024 12:00	62606	ENGL_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
9/9/2024 12:00	64201	KINZ_T1	0	0	0	0	0	0	0.18	0.01	3	3	0	1500	1500	0
9/9/2024 12:01	15203	SFAR_T2	105	132	27	0.25	0.28	0.03	-1.11	-1.09	0	0	0	0	0	0
9/9/2024 12:01	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 12:01	15204	SFAR_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
9/9/2024 12:01	62605	ENGL_T1	1	9	8	0.2	0.31	0.11	0	0	0	0	0	0	0	0
9/9/2024 12:01	62607	ENGL_T1	2	5	3	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/9/2024 12:01	62606	ENGL_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
9/9/2024 12:01	62604	ENGL_T1	0	0	0	0	0	0	-0.66	-0.54	1	1	0	600	600	0
9/9/2024 12:02	62605	ENGL_T1	1	9	8	0.2	0.31	0.11	0	0	0	0	0	0	0	0
9/9/2024 12:02	65604	QVIL_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
9/9/2024 12:02	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 12:02	62606	ENGL_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
9/9/2024 12:02	12605	MACA_T1	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
9/9/2024 12:02	65601	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 12:02	12601	MACA_T1	2	2	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
9/9/2024 12:02	62604	ENGL_T1	0	0	0	0	0	0	-0.66	-0.54	1	1	0	600	600	0
9/9/2024 12:02	62607	ENGL_T1	2	5	3	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/9/2024 12:02	12604	MACA_T1	2	3	1	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
9/9/2024 12:02	12602	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 12:02	12606	MACA_T1	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
9/9/2024 12:02	27603	PIRI_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
9/9/2024 12:03	40602	PIGR_T1	2	2	0	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
9/9/2024 12:03	40603	PIGR_T1	2	2	0	0.95	1.05	0.1	0	0	0	0	0	0	0	0
9/9/2024 12:03	40601	PIGR_T1	113	106	-7	0.33	0.38	0.05	0	0	0	0	0	0	0	0
9/9/2024 12:04	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 12:04	14502	SCHO_T1	2	2	0	0.5	0.75	0.25	0.37	0.37	0	0	0	0	0	0
9/9/2024 12:05	41902	REED_T1	4	5	1	0.3	0.44	0.14	1.1	1.11	0	0	0	0	0	0
9/9/2024 12:05	40602	PIGR_T1	2	2	0	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
9/9/2024 12:05	40603	PIGR_T1	2	2	0	0.95	1.05	0.1	0	0	0	0	0	0	0	0
9/9/2024 12:05	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/9/2024 12:05	65904	SAKR_T2	5	4	-1	0.16	0.23	0.07	-1.67	-1.73	2	2	0	900	900	0
9/9/2024 12:05	65901	SAKR_T2	1	1	0	7.6	8	0.4	0	0	0	0	0	0	0	0
9/9/2024 12:05	40601	PIGR_T1	113	106	-7	0.33	0.38	0.05	0	0	0	0	0	0	0	0
9/9/2024 12:05	13807	SALI_T1	1	1	0	1.4	1.4	0	0.12	0.12	0	0	0	0	0	0
9/9/2024 12:06	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/9/2024 12:06	41902	REED_T1	4	5	1	0.3	0.44	0.14	2.21	2.21	0	0	0	0	0	0
9/9/2024 12:06	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 12:07	24204	PROV_T3	1	2	1	6.2	3.05	-3.15	0	0	0	0	0	0	0	0
9/9/2024 12:07	16302	ALPA_T2	0	0	0	0	0	0	0.98	0.87	0	0	0	0	0	0
9/9/2024 12:07	45602	WOOL_T1	0	0	0	0	0	0	0.59	0.55	0	0	0	0	0	0
9/9/2024 12:07	24201	PROV_T3	5	6	1	1.46	1.37	-0.09	-1.31	-1.28	1	1	0	1200	1200	0
9/9/2024 12:08	20106	AVOC_T1	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
9/9/2024 12:08	13807	SALI_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
9/9/2024 12:08	20103	AVOC_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
9/9/2024 12:08	21703	SUBU_T1	0	0	0	0	0	0	-0.11	0.13	0	0	0	0	0	0
9/9/2024 12:08	21701	SUBU_T1	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
9/9/2024 12:08	13801	SALI_T1	0	0	0	0	0	0	1.03	1.03	0	0	0	0	0	0
9/9/2024 12:08	21705	SUBU_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
9/9/2024 12:09	16302	ALPA_T2	0	0	0	0	0	0	0.98	0.87	0	0	0	0	0	0
9/9/2024 12:10	42601	TUSC_T1	0	0	0	0	0	0	-0.01	-0.1	2	2	0	1800	1800	0
9/9/2024 12:10	18001	ZION_T1	6	7	1	1.92	1.94	0.02	0	0	0	0	0	0	0	0
9/9/2024 12:10	16302	ALPA_T2	0	0	0	0	0	0	1.97	1.74	0	0	0	0	0	0
9/9/2024 12:11	64903	MILL_T2	1	3	2	0.1	0.5	0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/9/2024 12:11	49803	UNIV_T1	3	3	0	2.1	2	-0.1	-0.95	0.36	0	0	0	0	0	0
9/9/2024 12:11	11202	ELHE_T2	0	0	0	0	0	0	0.5	0.45	0	0	0	0	0	0
9/9/2024 12:11	64902	MILL_T2	0	1	1	0	0.3	0.3	-0.51	-0.48	1	1	0	900	900	0
9/9/2024 12:11	49804	UNIV_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:12	49804	UNIV_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:12	60801	BUCK_T1	2	24	22	0.25	0.27	0.02	0	0	0	0	0	0	0	0
9/9/2024 12:12	14204	EALL_T2	0	3	3	0	0.37	0.37	1.1	1.1	0	0	0	0	0	0
9/9/2024 12:12	49803	UNIV_T1	3	3	0	2.1	2	-0.1	-0.95	0.36	0	0	0	0	0	0
9/9/2024 12:12	60803	BUCK_T1	0	15	15	0	0.24	0.24	-0.47	-0.46	1	1	0	600	600	0
9/9/2024 12:13	62607	ENGL_T1	2	5	3	0.3	0.4	0.1	-0.68	-0.67	0	0	0	0	0	0
9/9/2024 12:13	62605	ENGL_T1	1	9	8	0.2	0.31	0.11	0	0	0	0	0	0	0	0
9/9/2024 12:13	61301	EARL_T1	0	0	0	0	0	0	-1.05	-1.05	2	2	0	1800	1800	0
9/9/2024 12:13	42503	ALTA_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
9/9/2024 12:13	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 12:13	62606	ENGL_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
9/9/2024 12:13	61304	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 12:14	62605	ENGL_T1	1	9	8	0.2	0.31	0.11	-0.65	-0.66	0	0	0	0	0	0
9/9/2024 12:14	28805	LAKE_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
9/9/2024 12:14	22903	HARW_T1	0	0	0	0	0	0	0.26	0.2	0	0	0	0	0	0
9/9/2024 12:14	62606	ENGL_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
9/9/2024 12:14	40603	PIGR_T1	2	2	0	0.95	1.05	0.1	0	0	0	0	0	0	0	0
9/9/2024 12:14	62607	ENGL_T1	2	5	3	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/9/2024 12:14	40601	PIGR_T1	113	106	-7	0.33	0.38	0.05	-0.3	-0.32	0	0	0	0	0	0
9/9/2024 12:14	60803	BUCK_T1	0	15	15	0	0.24	0.24	-0.47	-0.46	1	1	0	600	600	0
9/9/2024 12:14	22901	HARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 12:14	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 12:14	60801	BUCK_T1	2	24	22	0.25	0.27	0.02	-0.27	-0.24	0	0	0	0	0	0
9/9/2024 12:14	22905	HARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/9/2024 12:14	40101	HUNT_T2	1	2	1	0.2	0.35	0.15	-0.19	-0.22	0	0	0	0	0	0
9/9/2024 12:14	40602	PIGR_T1	2	2	0	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
9/9/2024 12:15	23901	EFMO_T2	1	1	0	0.2	0.3	0.1	0.12	0.12	0	0	0	0	0	0
9/9/2024 12:15	62606	ENGL_T1	3	2	-1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
9/9/2024 12:15	46801	HEPB_T2	2	2	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:15	40101	HUNT_T2	0	2	2	0	0.35	0.35	-0.19	-0.22	0	0	0	0	0	0
9/9/2024 12:15	46803	HEPB_T2	1	1	0	0.8	1	0.2	0.3	0.32	0	0	0	0	0	0
9/9/2024 12:15	62602	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:15	62607	ENGL_T1	5	5	0	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
9/9/2024 12:15	60801	BUCK_T1	21	17	-4	0.23	0.32	0.09	0	0	0	0	0	0	0	0
9/9/2024 12:15	62605	ENGL_T1	8	8	0	0.33	0.25	-0.08	-1.96	-1.97	0	0	0	0	0	0
9/9/2024 12:15	46802	HEPB_T1	1	1	0	1	0.9	-0.1	-0.24	-0.23	0	0	0	0	0	0
9/9/2024 12:15	23902	EFMO_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/9/2024 12:15	60803	BUCK_T1	13	13	0	0.25	0.2	-0.05	-1.42	-1.39	3	3	0	1800	1800	0
9/9/2024 12:16	62605	ENGL_T1	8	8	0	0.33	0.25	-0.08	-0.65	-0.66	0	0	0	0	0	0
9/9/2024 12:16	46803	HEPB_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
9/9/2024 12:16	62607	ENGL_T1	5	5	0	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
9/9/2024 12:16	46801	HEPB_T2	2	2	0	1.2	1.1	-0.1	0.67	0.68	0	0	0	0	0	0
9/9/2024 12:16	62602	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:16	10503	CRAC_T1	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
9/9/2024 12:16	10504	CRAC_T1	0	0	0	0	0	0	0.14	0.07	0	0	0	0	0	0
9/9/2024 12:16	62606	ENGL_T1	3	2	-1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
9/9/2024 12:17	62607	ENGL_T1	5	5	0	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
9/9/2024 12:17	40101	HUNT_T2	0	2	2	0	0.35	0.35	-0.19	-0.22	0	0	0	0	0	0
9/9/2024 12:17	62602	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:17	13002	NBET_T2	5	6	1	0.28	0.3	0.02	0	0	0	0	0	0	0	0
9/9/2024 12:17	13005	NBET_T2	1	1	0	0.1	0.1	0	-0.47	-0.46	1	1	0	1200	1200	0
9/9/2024 12:17	62605	ENGL_T1	8	8	0	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
9/9/2024 12:17	13004	NBET_T2	3	2	-1	0.17	0.25	0.08	0	0	0	0	0	0	0	0
9/9/2024 12:17	13001	NBET_T2	0	2	2	0	0.15	0.15	0.61	0.61	0	0	0	0	0	0
9/9/2024 12:17	13003	NBET_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/9/2024 12:17	62606	ENGL_T1	3	2	-1	0.17	0.15	-0.02	-0.69	-0.81	1	1	0	900	900	0
9/9/2024 12:18	62605	ENGL_T1	8	8	0	0.33	0.25	-0.08	-0.65	-0.66	0	0	0	0	0	0
9/9/2024 12:18	62606	ENGL_T1	3	2	-1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
9/9/2024 12:18	62602	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:18	42903	MIDD_T2	0	0	0	0	0	0	1.14	1.16	0	0	0	0	0	0
9/9/2024 12:18	42902	MIDD_T2	4	2	-2	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
9/9/2024 12:18	24204	PROV_T3	2	1	-1	3.05	6	2.95	0	0	0	0	0	0	0	0
9/9/2024 12:18	53802	MBRG_T2	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
9/9/2024 12:18	53801	MBRG_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:18	24201	PROV_T3	6	5	-1	1.38	1.6	0.22	-1.31	-1.28	1	1	0	1200	1200	0
9/9/2024 12:18	62607	ENGL_T1	5	5	0	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
9/9/2024 12:19	13005	NBET_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/9/2024 12:19	53802	MBRG_T2	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
9/9/2024 12:19	60502	NMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:19	62602	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:19	13002	NBET_T2	5	6	1	0.28	0.3	0.02	-1.54	-1.49	2	2	0	2400	2400	0
9/9/2024 12:19	60501	NMAN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:19	62607	ENGL_T1	5	5	0	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
9/9/2024 12:19	62605	ENGL_T1	8	8	0	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
9/9/2024 12:19	13001	NBET_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/9/2024 12:19	13003	NBET_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/9/2024 12:19	64101	REFR_T1	7	6	-1	0.57	0.6	0.03	-0.01	-0.01	0	0	0	0	0	0
9/9/2024 12:19	53801	MBRG_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:19	13004	NBET_T2	3	2	-1	0.17	0.25	0.08	0	0	0	0	0	0	0	0
9/9/2024 12:19	60504	NMAN_T2	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
9/9/2024 12:19	62606	ENGL_T1	3	2	-1	0.17	0.15	-0.02	-0.69	-0.81	1	1	0	900	900	0
9/9/2024 12:20	13105	NHAM_T2	0	0	0	0	0	0	-0.73	-0.71	1	1	0	1200	1200	0
9/9/2024 12:21	13004	NBET_T2	3	2	-1	0.17	0.25	0.08	0	0	0	0	0	0	0	0
9/9/2024 12:21	27503	WEIS_T2	1	6	5	0.1	0.38	0.28	0	0	0	0	0	0	0	0
9/9/2024 12:21	13005	NBET_T2	1	1	0	0.1	0.1	0	-0.46	-0.49	1	1	0	1200	1200	0
9/9/2024 12:21	13003	NBET_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/9/2024 12:21	13001	NBET_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/9/2024 12:21	13002	NBET_T2	5	6	1	0.28	0.3	0.02	0	0	0	0	0	0	0	0
9/9/2024 12:21	27502	WEIS_T2	0	5	5	0	0.24	0.24	-0.72	-0.65	0	0	0	0	0	0
9/9/2024 12:22	26001	WDAM_T1	1	0	-1	0.4	0	-0.4	-0.71	-0.7	0	0	0	0	0	0
9/9/2024 12:22	26002	WDAM_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/9/2024 12:22	60701	BREC_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/9/2024 12:23	24201	PROV_T3	6	5	-1	1.38	1.6	0.22	-1.28	-1.3	1	1	0	1200	1200	0
9/9/2024 12:23	15203	SFAR_T2	132	45	-87	0.28	0.29	0.01	-1.11	-1.06	0	0	0	0	0	0
9/9/2024 12:23	15204	SFAR_T2	2	2	0	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
9/9/2024 12:23	24204	PROV_T3	2	1	-1	3.05	6	2.95	0	0	0	0	0	0	0	0
9/9/2024 12:24	59102	WALK_T2	5	5	0	0.56	0.42	-0.14	0	0	0	0	0	0	0	0
9/9/2024 12:24	15204	SFAR_T2	2	2	0	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
9/9/2024 12:24	59101	WALK_T2	1	2	1	0.2	0.6	0.4	2.04	2.27	0	0	0	0	0	0
9/9/2024 12:24	15203	SFAR_T2	132	45	-87	0.28	0.29	0.01	-1.11	-1.06	0	0	0	0	0	0
9/9/2024 12:24	60701	BREC_T1	2	2	0	0.2	0.2	0	-0.28	-0.2	2	2	0	1200	1200	0
9/9/2024 12:25	60701	BREC_T1	2	2	0	0.2	0.2	0	-0.28	-0.2	2	2	0	1200	1200	0
9/9/2024 12:25	20401	ASHF_T2	8	6	-2	0.44	0.37	-0.07	-0.08	-0.11	0	0	0	0	0	0
9/9/2024 12:25	20403	ASHF_T2	19	15	-4	0.46	0.53	0.07	0	0	0	0	0	0	0	0
9/9/2024 12:26	15203	SFAR_T2	0	0	0	0	0	0	-1.11	-1.06	0	0	0	0	0	0
9/9/2024 12:26	60701	BREC_T1	2	2	0	0.2	0.2	0	-0.28	-0.2	2	2	0	1200	1200	0
9/9/2024 12:26	27503	WEIS_T2	1	6	5	0.1	0.38	0.28	0	0	0	0	0	0	0	0
9/9/2024 12:26	45902	AUBU_T1	3	3	0	0.93	0.83	-0.1	-0.57	-0.62	1	1	0	600	600	0
9/9/2024 12:26	27502	WEIS_T2	0	5	5	0	0.24	0.24	-0.36	-0.32	0	0	0	0	0	0
9/9/2024 12:28	61803	EELI_T2	0	1	1	0	0.1	0.1	1.13	1.05	0	0	0	0	0	0
9/9/2024 12:30	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 12:30	42501	ALTA_T2	0	0	0	0	0	0	0.24	0.24	1	1	0	600	600	0
9/9/2024 12:30	47101	MARL_T1	1	2	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
9/9/2024 12:30	44801	EDAN_T2	124	136	12	0.42	0.49	0.07	0	0	0	0	0	0	0	0
9/9/2024 12:30	47104	MARL_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
9/9/2024 12:30	40101	HUNT_T2	2	1	-1	0.35	0.3	-0.05	-0.22	-0.2	0	0	0	0	0	0
9/9/2024 12:30	44802	EDAN_T2	0	0	0	0	0	0	-0.53	-0.62	0	0	0	0	0	0
9/9/2024 12:31	23901	EFMO_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/9/2024 12:31	52402	GRPA_T2	9	8	-1	0.56	0.61	0.05	-0.69	-0.65	0	0	0	0	0	0
9/9/2024 12:31	47101	MARL_T1	1	2	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
9/9/2024 12:31	23902	EFMO_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/9/2024 12:31	44801	EDAN_T2	124	136	12	0.42	0.49	0.07	-1.53	-1.54	0	0	0	0	0	0
9/9/2024 12:31	47104	MARL_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
9/9/2024 12:31	52403	GRPA_T2	132	110	-22	1.41	1.36	-0.05	0	0	0	0	0	0	0	0
9/9/2024 12:31	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 12:31	40101	HUNT_T2	2	1	-1	0.35	0.3	-0.05	-0.22	-0.2	0	0	0	0	0	0
9/9/2024 12:32	65501	MOJO_T1	1	1	0	0.5	0.1	-0.4	-0.84	-0.85	1	1	0	900	900	0
9/9/2024 12:32	44801	EDAN_T2	124	136	12	0.42	0.49	0.07	-1.53	-1.54	0	0	0	0	0	0
9/9/2024 12:33	52403	GRPA_T2	132	110	-22	1.41	1.36	-0.05	0	0	0	0	0	0	0	0
9/9/2024 12:33	47101	MARL_T1	1	2	1	0.7	0.4	-0.3	-0.15	-0.23	0	0	0	0	0	0
9/9/2024 12:33	52402	GRPA_T2	9	8	-1	0.56	0.61	0.05	-0.69	-0.65	0	0	0	0	0	0
9/9/2024 12:33	40101	HUNT_T2	2	1	-1	0.35	0.3	-0.05	-0.22	-0.2	0	0	0	0	0	0
9/9/2024 12:34	52402	GRPA_T2	9	8	-1	0.56	0.61	0.05	0	0	0	0	0	0	0	0
9/9/2024 12:34	65503	MOJO_T2	6	3	-3	0.73	0.83	0.1	-0.84	-0.74	1	1	0	900	900	0
9/9/2024 12:34	52403	GRPA_T2	132	110	-22	1.41	1.36	-0.05	-0.08	-0.07	0	0	0	0	0	0
9/9/2024 12:36	57004	WHHI_T2	0	1	1	0	0.2	0.2	-0.3	-0.37	0	0	0	0	0	0
9/9/2024 12:36	57006	WHHI_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
9/9/2024 12:36	57003	WHHI_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
9/9/2024 12:36	57005	WHHI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 12:39	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:39	10109	ALLE_T3	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:39	66502	SMAN_T2	10	7	-3	0.42	0.49	0.07	0	0	0	0	0	0	0	0
9/9/2024 12:39	66504	SMAN_T2	2	0	-2	5.05	0	-5.05	-0.21	-0.14	0	0	0	0	0	0
9/9/2024 12:39	67401	WAKE_T2	6	5	-1	0.58	0.5	-0.08	-0.96	-0.96	0	0	0	0	0	0
9/9/2024 12:39	10107	ALLE_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:39	66501	SMAN_T2	2	2	0	0.7	0.15	-0.55	0	0	0	0	0	0	0	0
9/9/2024 12:40	46005	BERW_T1	3	1	-2	0.87	0.1	-0.77	0	0	0	0	0	0	0	0
9/9/2024 12:40	59201	THOM_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:40	46001	BERW_T1	1	1	0	0.5	0.5	0	0.82	0.86	0	0	0	0	0	0
9/9/2024 12:40	59202	THOM_T1	8	9	1	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
9/9/2024 12:41	57403	SPAN_T1	42	160	118	0.31	0.31	0	0.23	0.25	0	0	0	0	0	0
9/9/2024 12:41	57401	SPAN_T1	28	178	150	0.52	0.36	-0.16	-0.7	-0.69	1	1	0	600	600	0
9/9/2024 12:42	40801	EXCH_T2	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
9/9/2024 12:42	57401	SPAN_T1	28	178	150	0.52	0.36	-0.16	-0.7	-0.69	1	1	0	600	600	0
9/9/2024 12:42	57403	SPAN_T1	42	160	118	0.31	0.31	0	0.12	0.13	0	0	0	0	0	0
9/9/2024 12:42	40802	EXCH_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/9/2024 12:43	63501	HEID_TBK1-2	26	31	5	0.47	0.6	0.13	0.42	0.41	1	1	0	900	900	0
9/9/2024 12:43	64903	MILL_T2	3	2	-1	0.4	0.45	0.05	0.27	0.23	0	0	0	0	0	0
9/9/2024 12:43	45501	DERR_T2	2	2	0	0.4	0.2	-0.2	0.67	0.65	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/9/2024 12:44	47002	HUGH_T2	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
9/9/2024 12:44	63801	HEMP_T1	6	3	-3	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
9/9/2024 12:44	63802	HEMP_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
9/9/2024 12:44	63803	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:44	47001	HUGH_T2	3	3	0	7.27	7.63	0.36	0	0	0	0	0	0	0	0
9/9/2024 12:44	63804	HEMP_T1	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
9/9/2024 12:45	47202	FAXO_T2	0	1	1	0	0	0	-0.88	-0.86	0	0	0	0	0	0
9/9/2024 12:46	40101	HUNT_T2	1	0	-1	0.3	0	-0.3	-0.2	-0.18	0	0	0	0	0	0
9/9/2024 12:48	58701	ROSE_T2	0	0	0	0	0	0	-0.15	0.54	1	0	-1	600	0	-600
9/9/2024 12:48	58705	ROSE_T2	6	6	0	1.72	1.98	0.26	0	0	0	0	0	0	0	0
9/9/2024 12:49	44202	POIN_T2	0	0	0	0	0	0	-0.47	-0.47	1	1	0	1200	1200	0
9/9/2024 12:49	52402	GRPA_T2	8	7	-1	0.61	0.6	-0.01	0	0	0	0	0	0	0	0
9/9/2024 12:49	55001	NEWP_T1	1	1	0	0.1	0.2	0.1	0.03	0.08	0	0	0	0	0	0
9/9/2024 12:49	55002	NEWP_T1	10	12	2	0.86	0.93	0.07	0	0	0	0	0	0	0	0
9/9/2024 12:49	52403	GRPA_T2	109	105	-4	1.36	1.05	-0.31	-0.07	-0.03	0	0	0	0	0	0
9/9/2024 12:52	60801	BUCK_T1	4	3	-1	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:52	60803	BUCK_T1	3	0	-3	0.13	0	-0.13	-0.45	-0.45	1	1	0	600	600	0
9/9/2024 12:52	27502	WEIS_T2	5	5	0	0.24	0.18	-0.06	-0.33	-0.27	0	0	0	0	0	0
9/9/2024 12:52	27503	WEIS_T2	5	2	-3	0.44	0.5	0.06	0	0	0	0	0	0	0	0
9/9/2024 12:55	67702	WERN_T2	3	4	1	0.67	0.7	0.03	0.49	0.51	0	0	0	0	0	0
9/9/2024 12:55	67703	WERN_T2	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
9/9/2024 12:56	67501	WEWI_T1	9	8	-1	0.62	0.61	-0.01	0	0	0	0	0	0	0	0
9/9/2024 12:56	67703	WERN_T2	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
9/9/2024 12:56	67702	WERN_T2	3	4	1	0.67	0.7	0.03	0.49	0.51	0	0	0	0	0	0
9/9/2024 12:56	67505	WEWI_T1	4	3	-1	0.48	0.43	-0.05	-0.03	0	1	1	0	900	900	0
9/9/2024 12:57	46503	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 12:57	46501	LOHA_T1	0	0	0	0	0	0	0.05	-0.03	1	1	0	1200	1200	0
9/9/2024 12:57	67503	WEWI_T2	5	4	-1	2.04	2.45	0.41	0	0	0	0	0	0	0	0
9/9/2024 12:57	67502	WEWI_T2	23	29	6	0.47	0.4	-0.07	-0.42	-0.36	0	0	0	0	0	0
9/9/2024 12:57	46506	LOHA_T1	3	3	0	5.63	5.53	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:57	12002	HATF_T1	1	1	0	0.2	0.6	0.4	0.77	0.61	1	1	0	1200	1200	0
9/9/2024 12:57	12007	HATF_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/9/2024 12:57	45501	DERR_T2	2	1	-1	0.2	0.2	0	0.65	0.85	2	2	0	1800	1800	0
9/9/2024 12:59	67505	WEWI_T1	4	3	-1	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
9/9/2024 12:59	67501	WEWI_T1	9	8	-1	0.62	0.61	-0.01	-0.3	-0.26	0	0	0	0	0	0
9/9/2024 13:00	13503	MCMI_T2	11	16	5	0.55	0.48	-0.07	-0.01	-0.01	0	0	0	0	0	0
9/9/2024 13:02	13004	NBET_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/9/2024 13:02	13003	NBET_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/9/2024 13:02	13002	NBET_T2	1	1	0	0.5	0.5	0	-3	-2.98	4	4	0	4800	4800	0
9/9/2024 13:02	13503	MCMI_T2	11	16	5	0.55	0.48	-0.07	-0.01	-0.01	0	0	0	0	0	0
9/9/2024 13:03	47001	HUGH_T2	3	3	0	7.53	7.53	0	0.01	-0.09	0	0	0	0	0	0
9/9/2024 13:04	13502	MCMI_T1	1	6	5	1	0.53	-0.47	0	0	0	0	0	0	0	0
9/9/2024 13:04	13503	MCMI_T2	11	16	5	0.55	0.48	-0.07	-0.01	-0.01	0	0	0	0	0	0
9/9/2024 13:04	13501	MCMI_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
9/9/2024 13:05	21704	SUBU_T1	0	0	0	0	0	0	-2.24	-2.29	2	2	0	2400	2400	0
9/9/2024 13:05	13003	NBET_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/9/2024 13:05	21705	SUBU_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
9/9/2024 13:05	13004	NBET_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/9/2024 13:05	21701	SUBU_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
9/9/2024 13:05	13002	NBET_T2	1	1	0	0.5	0.5	0	-1.5	-1.49	2	2	0	2400	2400	0
9/9/2024 13:06	44203	POIN_T2	0	0	0	0	0	0	-0.13	0.11	2	2	0	2100	2100	0
9/9/2024 13:08	55405	SHER_T1	11	11	0	0.6	0.71	0.11	-0.17	-0.17	0	0	0	0	0	0
9/9/2024 13:08	55401	SHER_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/9/2024 13:08	44301	BEAV_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/9/2024 13:08	47001	HUGH_T2	3	3	0	7.53	7.53	0	-0.09	-0.08	0	0	0	0	0	0
9/9/2024 13:10	45402	WBLO_T2	1	3	2	0.5	0.37	-0.13	-1.09	-1.06	1	1	0	900	900	0
9/9/2024 13:11	41602	CLEV_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
9/9/2024 13:12	44801	EDAN_T2	122	112	-10	0.37	0.37	0	-1.54	-1.58	0	0	0	0	0	0
9/9/2024 13:12	10602	BLGL_T2	2	2	0	0.35	0.5	0.15	1.13	1.05	0	0	0	0	0	0
9/9/2024 13:12	67503	WEWI_T2	4	4	0	2.43	2.38	-0.05	-0.16	0.06	0	0	0	0	0	0
9/9/2024 13:12	67502	WEWI_T2	22	29	7	0.48	0.36	-0.12	0	0	0	0	0	0	0	0
9/9/2024 13:14	51903	COPA_T1	0	0	0	0	0	0	0.31	0	0	0	0	0	0	0
9/9/2024 13:14	46101	MACI_T2	0	0	0	0	0	0	0.24	0.19	1	1	0	1200	1200	0
9/9/2024 13:14	51904	COPA_T1	6	6	0	0.68	1.03	0.35	0	0	0	0	0	0	0	0
9/9/2024 13:17	24105	EHAZ_T1	4	4	0	6.7	6.65	-0.05	0	0	0	0	0	0	0	0
9/9/2024 13:17	24102	EHAZ_T1	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
9/9/2024 13:18	47104	MARL_T1	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
9/9/2024 13:18	47101	MARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/9/2024 13:20	54202	PENN_T2	0	1	1	0	0.3	0.3	1.57	1.73	0	0	0	0	0	0
9/9/2024 13:21	47401	PENS_T1	1	2	1	0.2	0.4	0.2	0.65	-0.52	0	0	0	0	0	0
9/9/2024 13:21	47403	PENS_T1	4	1	-3	0.78	0.9	0.12	0	0	0	0	0	0	0	0
9/9/2024 13:21	58705	ROSE_T2	6	6	0	1.82	1.87	0.05	0	0	0	0	0	0	0	0
9/9/2024 13:21	58702	ROSE_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
9/9/2024 13:21	47402	PENS_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
9/9/2024 13:21	15703	TANN_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
9/9/2024 13:21	15702	TANN_T2	2	2	0	0.75	0.6	-0.15	-0.29	-0.23	0	0	0	0	0	0
9/9/2024 13:24	42802	SELI_T1	0	0	0	0	0	0	-1.93	-2.07	2	2	0	1800	1800	0
9/9/2024 13:24	55101	WERT_T1	0	0	0	0	0	0	-2.04	-1.83	4	4	0	3000	3000	0
9/9/2024 13:25	42802	SELI_T1	0	0	0	0	0	0	-0.97	-1.03	1	1	0	900	900	0
9/9/2024 13:25	55101	WERT_T1	0	0	0	0	0	0	-2.04	-1.83	4	4	0	3000	3000	0
9/9/2024 13:26	60902	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 13:26	60904	DONG_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/9/2024 13:26	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 13:26	60901	DONG_T2	3	6	3	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
9/9/2024 13:27	55101	WERT_T1	0	0	0	0	0	0	-4.09	-3.65	8	8	0	6000	6000	0
9/9/2024 13:27	42802	SELI_T1	0	0	0	0	0	0	-1.93	-2.07	2	2	0	1800	1800	0
9/9/2024 13:28	51906	COPA_T1	0	0	0	0	0	0	0	-0.96	2	2	0	1500	1500	0
9/9/2024 13:28	51904	COPA_T1	6	6	0	0.75	1.02	0.27	0	0	0	0	0	0	0	0
9/9/2024 13:28	24702	FLND_T2	3	3	0	0.77	0.93	0.16	0	0	1	1	0	1200	1200	0
9/9/2024 13:29	40101	HUNT_T2	0	0	0	0	0	0	-0.2	-0.16	0	0	0	0	0	0
9/9/2024 13:29	63803	HEMP_T1	0	2	2	0	0.15	0.15	0.22	0.23	0	0	0	0	0	0
9/9/2024 13:29	63801	HEMP_T1	3	4	1	0.47	0.53	0.06	0	0	0	0	0	0	0	0
9/9/2024 13:29	55101	WERT_T1	0	0	0	0	0	0	-1.02	-0.91	2	2	0	1500	1500	0
9/9/2024 13:29	63804	HEMP_T1	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
9/9/2024 13:29	42802	SELI_T1	0	0	0	0	0	0	-0.97	-1.03	1	1	0	900	900	0
9/9/2024 13:30	13503	MCMI_T2	16	7	-9	0.47	0.66	0.19	-0.01	-0.01	0	0	0	0	0	0
9/9/2024 13:30	53502	EVIL_T2	0	0	0	0	0	0	0.57	0.6	1	1	0	600	600	0
9/9/2024 13:30	50201	HARR_T3	1	1	0	0.3	0.2	-0.1	-0.42	-0.41	1	1	0	1200	1200	0
9/9/2024 13:30	53501	EVIL_T2	1	3	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/9/2024 13:30	50105	HARR_T3	6	6	0	6.83	6.88	0.05	0	0	0	0	0	0	0	0
9/9/2024 13:30	50103	HARR_T3	4	2	-2	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
9/9/2024 13:30	50107	HARR_T3	1	1	0	7.1	6.7	-0.4	0	0	0	0	0	0	0	0
9/9/2024 13:31	51603	DUKE_T1	2	2	0	0.4	0.4	0	-0.4	0	0	0	0	0	0	0
9/9/2024 13:31	51601	DUKE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/9/2024 13:33	44801	EDAN_T2	109	82	-27	0.37	0.32	-0.05	-1.58	-1.58	0	0	0	0	0	0
9/9/2024 13:33	64305	LINC_T1	0	0	0	0	0	0	0.17	0.21	0	0	0	0	0	0
9/9/2024 13:33	63602	LETO_T1	1	2	1	0.1	0.45	0.35	-0.09	-0.21	0	0	0	0	0	0
9/9/2024 13:34	50103	HARR_T3	4	2	-2	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
9/9/2024 13:34	50201	HARR_T3	1	1	0	0.3	0.2	-0.1	-0.42	-0.41	1	1	0	1200	1200	0
9/9/2024 13:34	50105	HARR_T3	6	6	0	6.83	6.88	0.05	0	0	0	0	0	0	0	0
9/9/2024 13:34	50107	HARR_T3	1	1	0	7.1	6.7	-0.4	0	0	0	0	0	0	0	0
9/9/2024 13:36	10903	COOP_T2	3	4	1	0.63	0.6	-0.03	0.31	0.29	1	1	0	600	600	0
9/9/2024 13:36	10901	COOP_T2	1	3	2	0.7	0.57	-0.13	0	0	0	0	0	0	0	0
9/9/2024 13:38	46501	LOHA_T1	1	1	0	0.6	0	-0.6	0.05	-0.04	2	2	0	2400	2400	0
9/9/2024 13:38	46506	LOHA_T1	3	4	1	5.7	4.63	-1.07	0	0	0	0	0	0	0	0
9/9/2024 13:38	46504	LOHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/9/2024 13:38	46503	LOHA_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/9/2024 13:39	46501	LOHA_T1	1	1	0	0.6	0	-0.6	0.02	-0.02	1	1	0	1200	1200	0
9/9/2024 13:39	46504	LOHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/9/2024 13:39	15202	SFAR_T1	0	0	0	0	0	0	0.03	0.02	1	1	0	1200	1200	0
9/9/2024 13:39	46503	LOHA_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/9/2024 13:39	46506	LOHA_T1	3	4	1	5.7	4.63	-1.07	0	0	0	0	0	0	0	0
9/9/2024 13:40	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 13:40	13905	SEID_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/9/2024 13:41	24702	FLND_T2	3	3	0	0.8	0.83	0.03	0	0	1	1	0	1200	1200	0
9/9/2024 13:42	40201	BEGA_T2	0	8	8	0	0.36	0.36	0	0	0	0	0	0	0	0
9/9/2024 13:43	40201	BEGA_T2	0	8	8	0	0.36	0.36	0	0	0	0	0	0	0	0
9/9/2024 13:44	16004	DORN_T1	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
9/9/2024 13:44	44802	EDAN_T2	0	0	0	0	0	0	-0.62	-0.51	0	0	0	0	0	0
9/9/2024 13:44	16001	DORN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 13:44	44801	EDAN_T2	109	82	-27	0.37	0.32	-0.05	0	0	0	0	0	0	0	0
9/9/2024 13:44	16005	DORN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/9/2024 13:45	63602	LETO_T1	2	1	-1	0.45	1.1	0.65	-0.21	-0.02	0	0	0	0	0	0
9/9/2024 13:49	46504	LOHA_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
9/9/2024 13:49	66502	SMAN_T2	5	5	0	0.38	0.26	-0.12	0	0	0	0	0	0	0	0
9/9/2024 13:49	66504	SMAN_T2	1	1	0	0.3	0.3	0	-0.1	-0.16	0	0	0	0	0	0
9/9/2024 13:49	46501	LOHA_T1	0	1	1	0	0	0	0.05	-0.04	2	2	0	2400	2400	0
9/9/2024 13:49	46503	LOHA_T1	1	2	1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
9/9/2024 13:49	66501	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
9/9/2024 13:49	64302	LINC_T2	0	0	0	0	0	0	1.04	1.05	0	0	0	0	0	0
9/9/2024 13:49	46506	LOHA_T1	3	4	1	6.1	4.8	-1.3	0	0	0	0	0	0	0	0
9/9/2024 13:50	46506	LOHA_T1	3	4	1	6.1	4.8	-1.3	0	0	0	0	0	0	0	0
9/9/2024 13:50	46503	LOHA_T1	1	2	1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
9/9/2024 13:50	53501	EVIL_T2	2	3	1	0.15	0.63	0.48	-0.01	-0.01	1	1	0	600	600	0
9/9/2024 13:50	46501	LOHA_T1	0	1	1	0	0	0	0.02	-0.02	1	1	0	1200	1200	0
9/9/2024 13:50	46504	LOHA_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
9/9/2024 13:52	52402	GRPA_T2	14	7	-7	0.55	0.39	-0.16	0	0	0	0	0	0	0	0
9/9/2024 13:52	52403	GRPA_T2	60	88	28	0.84	0.91	0.07	-0.08	0.03	0	0	0	0	0	0
9/9/2024 13:54	57401	SPAN_T1	9	10	1	0.72	0.7	-0.02	0.07	0.08	0	0	0	0	0	0
9/9/2024 13:54	57403	SPAN_T1	16	17	1	0.56	0.56	0	0	0	0	0	0	0	0	0
9/9/2024 13:56	45602	WOOL_T1	3	5	2	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
9/9/2024 13:56	45601	WOOL_T1	0	0	0	0	0	0	1.07	1.08	0	0	0	0	0	0
9/9/2024 13:58	62102	ELAN_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
9/9/2024 13:58	62105	ELAN_T1	2	2	0	0.4	0.45	0.05	0.44	0.45	0	0	0	0	0	0
9/9/2024 13:58	53501	EVIL_T2	2	3	1	0.15	0.63	0.48	-0.01	-0.01	1	1	0	600	600	0
9/9/2024 13:58	13103	NHAM_T2	0	0	0	0	0	0	-1.43	-1.5	1	1	0	600	600	0
9/9/2024 14:00	62102	ELAN_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/9/2024 14:00	62105	ELAN_T1	2	1	-1	0.45	0.7	0.25	0.44	0.45	0	0	0	0	0	0
9/9/2024 14:00	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 14:02	46503	LOHA_T1	1	2	1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
9/9/2024 14:02	46506	LOHA_T1	4	4	0	4.6	4.8	0.2	-0.03	-0.02	0	0	0	0	0	0
9/9/2024 14:02	46501	LOHA_T1	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
9/9/2024 14:02	46504	LOHA_T1	1	3	2	0.3	0.3	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/9/2024 14:04	42001	MNVL_T2	245	255	10	0.72	0.81	0.09	-0.28	-0.29	0	0	0	0	0	0
9/9/2024 14:04	42002	MNVL_T2	1	1	0	5	4.5	-0.5	0	0	0	0	0	0	0	0
9/9/2024 14:05	66504	SMAN_T2	1	1	0	0.3	0.3	0	-0.16	-0.25	0	0	0	0	0	0
9/9/2024 14:05	66502	SMAN_T2	5	6	1	0.26	0.35	0.09	0	0	0	0	0	0	0	0
9/9/2024 14:05	66501	SMAN_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
9/9/2024 14:07	46302	ROHR_T1	4	4	0	0.85	0.85	0	0.3	0.28	0	0	0	0	0	0
9/9/2024 14:07	42002	MNVL_T2	1	1	0	5	4.5	-0.5	0	0	0	0	0	0	0	0
9/9/2024 14:07	42001	MNVL_T2	245	255	10	0.72	0.81	0.09	-0.29	-0.29	0	0	0	0	0	0
9/9/2024 14:07	46301	ROHR_T1	1	1	0	4.6	5.1	0.5	0	0	0	0	0	0	0	0
9/9/2024 14:07	15201	SFAR_T1	0	0	0	0	0	0	0.02	0.07	2	2	0	1800	1800	0
9/9/2024 14:08	41205	KENM_T2	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
9/9/2024 14:08	41202	KENM_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/9/2024 14:09	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 14:10	43402	BENT_T1	0	1	1	0	0.2	0.2	-0.55	-0.54	1	1	0	600	600	0
9/9/2024 14:10	57403	SPAN_T1	16	15	-1	0.58	0.57	-0.01	0	0	0	0	0	0	0	0
9/9/2024 14:10	57401	SPAN_T1	10	8	-2	0.7	0.53	-0.17	0.08	0.17	0	0	0	0	0	0
9/9/2024 14:10	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 14:11	42802	SELI_T1	0	0	0	0	0	0	-1.01	-0.98	1	1	0	900	900	0
9/9/2024 14:12	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 14:12	42802	SELI_T1	0	0	0	0	0	0	-1.01	-0.98	1	1	0	900	900	0
9/9/2024 14:12	10102	ALLE_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
9/9/2024 14:12	10204	ALLE_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
9/9/2024 14:12	10203	ALLE_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/9/2024 14:12	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 14:12	10206	ALLE_T2	1	1	0	1.5	1	-0.5	0	0	0	0	0	0	0	0
9/9/2024 14:13	49802	UNIV_T2	0	1	1	0	0.1	0.1	-0.19	-0.16	0	0	0	0	0	0
9/9/2024 14:13	43402	BENT_T1	0	1	1	0	0.2	0.2	-0.55	-0.54	1	1	0	600	600	0
9/9/2024 14:14	42802	SELI_T1	0	0	0	0	0	0	-1.01	-0.98	1	1	0	900	900	0
9/9/2024 14:14	22901	HARW_T1	0	0	0	0	0	0	-0.06	-0.02	1	1	0	1200	1200	0
9/9/2024 14:15	51604	DUKE_T2	0	0	0	0	0	0	0.86	0.44	0	0	0	0	0	0
9/9/2024 14:15	41001	LAUR_T2	37	72	35	0.27	0.27	0	0	0	0	0	0	0	0	0
9/9/2024 14:15	42802	SELI_T1	0	0	0	0	0	0	-1.01	-0.98	1	1	0	900	900	0
9/9/2024 14:15	41002	LAUR_T2	4	6	2	0.85	0.67	-0.18	0.08	0.08	0	0	0	0	0	0
9/9/2024 14:20	16204	POFA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/9/2024 14:20	16202	POFA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/9/2024 14:21	56501	ROCK_T2	1	3	2	1	0.4	-0.6	0	0	0	0	0	0	0	0
9/9/2024 14:21	56504	ROCK_T2	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
9/9/2024 14:23	45602	WOOL_T1	4	3	-1	0.33	0.27	-0.06	0.63	0.64	0	0	0	0	0	0
9/9/2024 14:24	66501	SMAN_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
9/9/2024 14:24	66502	SMAN_T2	2	7	5	0.35	0.4	0.05	0	0	0	0	0	0	0	0
9/9/2024 14:24	66504	SMAN_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/9/2024 14:25	13704	SCHN_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/9/2024 14:25	12202	FOGE_T2	3	3	0	0.5	0.6	0.1	0	0	1	1	0	600	600	0
9/9/2024 14:25	13701	SCHN_T2	6	3	-3	0.18	0.23	0.05	0.08	0.13	1	1	0	600	600	0
9/9/2024 14:25	59202	THOM_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
9/9/2024 14:26	57401	SPAN_T1	8	7	-1	0.5	0.74	0.24	0.17	0.14	0	0	0	0	0	0
9/9/2024 14:26	21206	ECAR_T2	1	1	0	7.7	7.6	-0.1	0.73	0.79	0	0	0	0	0	0
9/9/2024 14:26	41501	FAIR_T2	0	0	0	0	0	0	-1.05	-1.05	1	1	0	600	600	0
9/9/2024 14:26	59202	THOM_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
9/9/2024 14:26	57403	SPAN_T1	15	15	0	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
9/9/2024 14:26	21204	ECAR_T2	1	1	0	0	0	0	-0.62	-0.67	0	0	0	0	0	0
9/9/2024 14:27	14603	SWHI_T1	0	4	4	0	0.13	0.13	-0.11	-0.3	0	0	0	0	0	0
9/9/2024 14:27	53501	EVIL_T2	3	2	-1	0.63	0.4	-0.23	-0.01	-0.01	1	1	0	600	600	0
9/9/2024 14:29	53501	EVIL_T2	3	2	-1	0.63	0.4	-0.23	-0.01	-0.01	1	1	0	600	600	0
9/9/2024 14:29	16002	DORN_T2	0	0	0	0	0	0	-0.63	-0.62	1	1	0	1200	1200	0
9/9/2024 14:30	67702	WERN_T2	3	2	-1	0.5	0.85	0.35	0.55	0.6	0	0	0	0	0	0
9/9/2024 14:30	67703	WERN_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
9/9/2024 14:30	67701	WERN_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
9/9/2024 14:31	41502	FAIR_T2	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
9/9/2024 14:32	47001	HUGH_T2	3	4	1	7.6	5.9	-1.7	-0.13	-0.09	0	0	0	0	0	0
9/9/2024 14:32	47002	HUGH_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
9/9/2024 14:33	42902	MIDD_T2	1	6	5	0.2	0.63	0.43	-0.89	-0.86	1	1	0	600	600	0
9/9/2024 14:33	42903	MIDD_T2	1	2	1	0.1	0.7	0.6	0	0	0	0	0	0	0	0
9/9/2024 14:33	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 14:33	43202	MVIL_T2	0	0	0	0	0	0	-0.62	-0.59	0	0	0	0	0	0
9/9/2024 14:34	47402	PENS_T1	4	1	-3	0.73	0.3	-0.43	0	0	0	0	0	0	0	0
9/9/2024 14:34	47403	PENS_T1	8	6	-2	0.81	0.78	-0.03	0	0	0	0	0	0	0	0
9/9/2024 14:34	47401	PENS_T1	7	1	-6	0.56	0.1	-0.46	-0.66	0.76	0	0	0	0	0	0
9/9/2024 14:35	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 14:35	43202	MVIL_T2	0	0	0	0	0	0	-0.62	-0.59	0	0	0	0	0	0
9/9/2024 14:36	47402	PENS_T1	4	1	-3	0.73	0.3	-0.43	0	0	0	0	0	0	0	0
9/9/2024 14:36	47403	PENS_T1	8	6	-2	0.81	0.78	-0.03	0	0	0	0	0	0	0	0
9/9/2024 14:36	47401	PENS_T1	7	1	-6	0.56	0.1	-0.46	0.76	0.67	0	0	0	0	0	0
9/9/2024 14:37	59201	THOM_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/9/2024 14:37	59202	THOM_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
9/9/2024 14:37	67702	WERN_T2	3	2	-1	0.5	0.85	0.35	0	0	0	0	0	0	0	0
9/9/2024 14:37	41202	KENM_T2	2	2	0	0.15	0.35	0.2	0.7	0.68	0	0	0	0	0	0
9/9/2024 14:37	47402	PENS_T1	4	1	-3	0.73	0.3	-0.43	0	0	0	0	0	0	0	0
9/9/2024 14:37	47403	PENS_T1	8	6	-2	0.81	0.78	-0.03	0	0	0	0	0	0	0	0
9/9/2024 14:37	47401	PENS_T1	7	1	-6	0.56	0.1	-0.46	1.52	1.33	0	0	0	0	0	0
9/9/2024 14:37	67703	WERN_T2	2	2	0	0.45	0.45	0	-0.01	-0.02	1	1	0	900	900	0
9/9/2024 14:37	67701	WERN_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
9/9/2024 14:39	45602	WOOL_T1	2	3	1	0.25	0.27	0.02	0.64	0.61	0	0	0	0	0	0
9/9/2024 14:40	59202	THOM_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
9/9/2024 14:40	59201	THOM_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/9/2024 14:40	59101	WALK_T2	1	3	2	0.2	0.5	0.3	1.59	1.7	1	1	0	600	600	0
9/9/2024 14:40	59102	WALK_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
9/9/2024 14:40	42201	SHEN_T2	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
9/9/2024 14:40	46203	DANV_T2	1	3	2	6.4	2.67	-3.73	0.57	0.54	0	0	0	0	0	0
9/9/2024 14:43	66502	SMAN_T2	6	6	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
9/9/2024 14:43	66504	SMAN_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/9/2024 14:43	66504	SMAN_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
9/9/2024 14:44	14802	TREI_T2	2	1	-1	0.15	0.1	-0.05	0.62	0.71	0	0	0	0	0	0
9/9/2024 14:44	61506	EPET_T2	0	0	0	0	0	0	-0.5	-0.41	1	1	0	900	900	0
9/9/2024 14:44	61501	EPET_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
9/9/2024 14:44	24501	COUL_T2	0	2	2	0	0.45	0.45	0.08	0.05	0	0	0	0	0	0
9/9/2024 14:44	14801	TREI_T2	5	6	1	0.54	0.5	-0.04	0	0	0	0	0	0	0	0
9/9/2024 14:46	44801	EDAN_T2	130	141	11	0.48	0.53	0.05	-1.55	-1.58	0	0	0	0	0	0
9/9/2024 14:46	40101	HUNT_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
9/9/2024 14:47	52401	GRPA_T2	0	0	0	0	0	0	-0.34	-0.31	0	0	0	0	0	0
9/9/2024 14:47	52403	GRPA_T2	101	97	-4	0.88	0.79	-0.09	0	0	0	0	0	0	0	0
9/9/2024 14:47	44801	EDAN_T2	130	141	11	0.48	0.53	0.05	-1.55	-1.58	0	0	0	0	0	0
9/9/2024 14:47	52402	GRPA_T2	13	57	44	0.47	0.33	-0.14	0	0	0	0	0	0	0	0
9/9/2024 14:48	63602	LETO_T1	1	1	0	0.8	0.5	-0.3	-0.21	-0.2	0	0	0	0	0	0
9/9/2024 14:49	42903	MIDD_T2	2	2	0	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
9/9/2024 14:49	42902	MIDD_T2	5	6	1	0.6	0.47	-0.13	-0.86	-0.81	1	1	0	600	600	0
9/9/2024 14:50	52402	GRPA_T2	13	57	44	0.47	0.33	-0.14	0	0	0	0	0	0	0	0
9/9/2024 14:50	52403	GRPA_T2	101	97	-4	0.88	0.79	-0.09	-0.02	0.04	0	0	0	0	0	0
9/9/2024 14:51	59001	MIFF_T1	3	3	0	1.27	0.67	-0.6	0	0	0	0	0	0	0	0
9/9/2024 14:51	59002	MIFF_T1	6	5	-1	0.93	0.78	-0.15	0	0	0	0	0	0	0	0
9/9/2024 14:51	59003	MIFF_T1	1	1	0	0.8	0.2	-0.6	-0.36	-0.02	0	0	0	0	0	0
9/9/2024 14:52	59201	THOM_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/9/2024 14:52	59202	THOM_T1	5	2	-3	0.14	0.2	0.06	0	0	0	0	0	0	0	0
9/9/2024 14:56	54505	ENOL_T2	2	1	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/9/2024 14:56	54504	ENOL_T2	1	1	0	0.5	0.7	0.2	-1.64	-1.59	1	1	0	600	600	0
9/9/2024 14:57	59202	THOM_T1	5	2	-3	0.14	0.2	0.06	0	0	0	0	0	0	0	0
9/9/2024 14:57	59201	THOM_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/9/2024 14:59	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 15:02	64305	LINC_T1	0	0	0	0	0	0	0.16	0.23	0	0	0	0	0	0
9/9/2024 15:03	59201	THOM_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
9/9/2024 15:03	59202	THOM_T1	2	4	2	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/9/2024 15:04	44201	POIN_T1	0	0	0	0	0	0	-1.22	-1.29	2	2	0	2100	2100	0
9/9/2024 15:07	45602	WOOL_T1	2	2	0	0.25	0.4	0.15	0.6	0.59	0	0	0	0	0	0
9/9/2024 15:08	27102	GFLD_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
9/9/2024 15:08	59202	THOM_T1	2	4	2	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/9/2024 15:08	59201	THOM_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
9/9/2024 15:08	45602	WOOL_T1	2	2	0	0.25	0.4	0.15	0.6	0.59	0	0	0	0	0	0
9/9/2024 15:08	27101	GFLD_T2	0	0	0	0	0	0	0.35	0.31	0	0	0	0	0	0
9/9/2024 15:09	66502	SMAN_T2	5	5	0	0.48	0.22	-0.26	0	0	0	0	0	0	0	0
9/9/2024 15:09	45602	WOOL_T1	2	2	0	0.25	0.4	0.15	0.6	0.59	0	0	0	0	0	0
9/9/2024 15:09	41204	KENM_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
9/9/2024 15:09	11405	FARM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 15:09	66504	SMAN_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/9/2024 15:09	41202	KENM_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/9/2024 15:09	11404	FARM_T1	1	1	0	0.2	0.2	0	-0.04	-0.04	1	1	0	1200	1200	0
9/9/2024 15:09	15203	SFAR_T2	0	0	0	0	0	0	-1.01	-0.97	0	0	0	0	0	0
9/9/2024 15:10	42802	SELI_T1	0	0	0	0	0	0	-0.97	-0.94	1	1	0	900	900	0
9/9/2024 15:11	67901	WNHO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 15:12	59201	THOM_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
9/9/2024 15:12	59202	THOM_T1	2	4	2	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/9/2024 15:12	55507	HERS_T1	0	0	0	0	0	0	0.79	0.76	0	0	0	0	0	0
9/9/2024 15:12	51002	NHAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 15:12	51004	NHAR_T1	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
9/9/2024 15:12	55503	HERS_T1	0	2	2	0	3.1	3.1	0	0	0	0	0	0	0	0
9/9/2024 15:13	40701	FFLD_T1	10	17	7	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/9/2024 15:13	40702	FFLD_T1	0	0	0	0	0	0	-0.08	0.04	0	0	0	0	0	0
9/9/2024 15:14	11604	CEAL_T1	4	0	-4	0.6	0	-0.6	0	0	0	0	0	0	0	0
9/9/2024 15:14	28701	HAML_T2	5	4	-1	0.62	0.7	0.08	0	0	0	0	0	0	0	0
9/9/2024 15:14	28704	HAML_T2	1	1	0	0.7	0.7	0	-0.01	-0.01	0	0	0	0	0	0
9/9/2024 15:14	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/9/2024 15:15	17805	GILB_T2	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
9/9/2024 15:15	17804	GILB_T2	14	8	-6	0.31	0.56	0.25	-0.52	-0.53	0	0	0	0	0	0
9/9/2024 15:15	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
9/9/2024 15:16	40802	EXCH_T2	1	1	0	0.9	0.9	0	-0.14	-0.2	0	0	0	0	0	0
9/9/2024 15:17	64305	LINC_T1	0	0	0	0	0	0	0.23	0.06	0	0	0	0	0	0
9/9/2024 15:17	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
9/9/2024 15:18	20601	GRWO_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
9/9/2024 15:18	20603	GRWO_T2	0	0	0	0	0	0	-0.58	-0.56	1	1	0	900	900	0
9/9/2024 15:19	16202	POFA_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/9/2024 15:19	16204	POFA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 15:21	14402	SSLA_T1	15	39	24	0.32	0.23	-0.09	0	0	0	0	0	0	0	0
9/9/2024 15:21	14401	SSLA_T1	2	6	4	0.15	0.57	0.42	-0.35	-0.39	0	0	0	0	0	0
9/9/2024 15:21	14404	SSLA_T1	3	4	1	0.3	0.58	0.28	0.41	0.45	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/9/2024 15:21	14403	SSLA_T1	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
9/9/2024 15:22	16204	POFA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 15:22	16202	POFA_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/9/2024 15:22	40902	JESH_T1	1	0	-1	0.1	0	-0.1	-0.21	-0.23	0	0	0	0	0	0
9/9/2024 15:22	65206	PRIN_T4	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/9/2024 15:22	65207	PRIN_T4	1	1	0	0.1	0.2	0.1	0	0	2	2	0	1800	1800	0
9/9/2024 15:22	40901	JESH_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/9/2024 15:23	47901	HRDG_T1	0	0	0	0	0	0	1.93	1.65	0	0	0	0	0	0
9/9/2024 15:24	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 15:24	21206	ECAR_T2	1	1	0	7.7	8.2	0.5	0.49	0.34	0	0	0	0	0	0
9/9/2024 15:25	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 15:25	66502	SMAN_T2	5	0	-5	0.22	0	-0.22	0	0	0	0	0	0	0	0
9/9/2024 15:27	11203	ELHE_T1	0	0	0	0	0	0	1.09	1.11	0	0	0	0	0	0
9/9/2024 15:27	51304	WIND_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/9/2024 15:28	67503	WEWI_T2	1	1	0	8.5	8.6	0.1	0.08	0.15	0	0	0	0	0	0
9/9/2024 15:28	67502	WEWI_T2	6	11	5	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
9/9/2024 15:30	63801	HEMP_T1	2	2	0	0.45	0.6	0.15	-0.52	-0.64	1	1	0	900	900	0
9/9/2024 15:30	63803	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/9/2024 15:30	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
9/9/2024 15:35	53501	EVIL_T2	1	2	1	0.9	1	0.1	-0.01	-0.01	1	1	0	600	600	0
9/9/2024 15:39	65901	SAKR_T2	1	1	0	7	6.9	-0.1	0	0	0	0	0	0	0	0
9/9/2024 15:39	65902	SAKR_T2	0	0	0	0	0	0	-0.06	0	1	1	0	300	300	0
9/9/2024 15:47	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-0.11	-0.38	0	0	0	0	0	0
9/9/2024 15:49	58401	MORO_T1	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
9/9/2024 15:50	47104	MARL_T1	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
9/9/2024 15:51	58401	MORO_T1	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
9/9/2024 15:51	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 15:54	40402	PIGR_T1	1	1	0	0.8	0.5	-0.3	-0.33	-0.31	1	1	0	600	600	0
9/9/2024 15:54	40601	PIGR_T1	98	153	55	0.22	0.34	0.12	0	0	0	0	0	0	0	0
9/9/2024 15:55	59202	THOM_T1	6	5	-1	0.27	0.3	0.03	0	0	0	0	0	0	0	0
9/9/2024 15:55	59201	THOM_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/9/2024 15:57	48901	FOSP_T2	1	1	0	0.2	0.3	0.1	-0.34	-0.35	1	1	0	600	600	0
9/9/2024 15:57	48902	FOSP_T2	0	0	0	0	0	0	0.19	0.11	0	0	0	0	0	0
9/9/2024 15:57	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 15:57	10805	CHHI_T2	1	1	0	7.9	8	0.1	-0.49	-0.3	0	0	0	0	0	0
9/9/2024 15:58	48901	FOSP_T2	1	1	0	0.2	0.3	0.1	-0.34	-0.35	1	1	0	600	600	0
9/9/2024 15:59	10805	CHHI_T2	1	1	0	7.9	8	0.1	-0.49	-0.3	0	0	0	0	0	0
9/9/2024 15:59	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
9/9/2024 15:59	24702	FLND_T2	3	3	0	0.93	0.43	-0.5	0	0	1	1	0	1200	1200	0
9/9/2024 15:59	15702	TANN_T2	0	1	1	0	0.5	0.5	-0.21	-0.27	0	0	0	0	0	0
9/9/2024 16:00	53902	HALI_T2	2	2	0	2.7	2.85	0.15	0	0	0	0	0	0	0	0
9/9/2024 16:00	53901	HALI_T2	2	1	-1	0.65	1.1	0.45	-1.2	-1.18	0	0	0	0	0	0
9/9/2024 16:00	53903	HALI_T2	3	2	-1	0.83	1.2	0.37	0	0	0	0	0	0	0	0
9/9/2024 16:01	53903	HALI_T2	3	2	-1	0.83	1.2	0.37	0	0	0	0	0	0	0	0
9/9/2024 16:01	53902	HALI_T2	2	2	0	2.7	2.85	0.15	0	0	0	0	0	0	0	0
9/9/2024 16:01	53901	HALI_T2	2	1	-1	0.65	1.1	0.45	-1.2	-1.18	0	0	0	0	0	0
9/9/2024 16:02	53901	HALI_T2	2	1	-1	0.65	1.1	0.45	-1.2	-1.18	0	0	0	0	0	0
9/9/2024 16:02	53902	HALI_T2	2	2	0	2.7	2.85	0.15	0	0	0	0	0	0	0	0
9/9/2024 16:02	53903	HALI_T2	3	2	-1	0.83	1.2	0.37	0	0	0	0	0	0	0	0
9/9/2024 16:03	53902	HALI_T2	2	2	0	2.7	2.85	0.15	0	0	0	0	0	0	0	0
9/9/2024 16:03	53901	HALI_T2	2	1	-1	0.65	1.1	0.45	-1.2	-1.18	0	0	0	0	0	0
9/9/2024 16:03	25402	LAHA_T2	120	122	2	0.38	0.39	0.01	-0.83	-0.79	0	0	0	0	0	0
9/9/2024 16:03	53903	HALI_T2	3	2	-1	0.83	1.2	0.37	0	0	0	0	0	0	0	0
9/9/2024 16:04	53901	HALI_T2	2	1	-1	0.65	1.1	0.45	-1.2	-1.18	0	0	0	0	0	0
9/9/2024 16:04	53902	HALI_T2	2	2	0	2.7	2.85	0.15	0	0	0	0	0	0	0	0
9/9/2024 16:04	53903	HALI_T2	3	2	-1	0.83	1.2	0.37	0	0	0	0	0	0	0	0
9/9/2024 16:06	14403	SSLA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/9/2024 16:06	57401	SPAN_T1	4	7	3	0.83	0.73	-0.1	0.1	-0.5	0	1	1	0	600	600
9/9/2024 16:06	14404	SSLA_T1	3	5	2	0.27	0.44	0.17	0	0	0	0	0	0	0	0
9/9/2024 16:06	14401	SSLA_T1	8	10	2	0.23	0.35	0.12	-0.37	-0.37	0	0	0	0	0	0
9/9/2024 16:06	14402	SSLA_T1	75	107	32	0.16	0.19	0.03	0	0	0	0	0	0	0	0
9/9/2024 16:06	57403	SPAN_T1	4	7	3	0.38	0.4	0.02	0	0	0	0	0	0	0	0
9/9/2024 16:07	14403	SSLA_T1	0	1	1	0	0.5	0.5	1.78	1.73	0	0	0	0	0	0
9/9/2024 16:07	14402	SSLA_T1	75	107	32	0.16	0.19	0.03	0	0	0	0	0	0	0	0
9/9/2024 16:07	14404	SSLA_T1	3	5	2	0.27	0.44	0.17	0	0	0	0	0	0	0	0
9/9/2024 16:07	14401	SSLA_T1	8	10	2	0.23	0.35	0.12	-0.75	-0.75	0	0	0	0	0	0
9/9/2024 16:08	14404	SSLA_T1	3	5	2	0.27	0.44	0.17	0	0	0	0	0	0	0	0
9/9/2024 16:08	14402	SSLA_T1	75	107	32	0.16	0.19	0.03	0	0	0	0	0	0	0	0
9/9/2024 16:08	14401	SSLA_T1	8	10	2	0.23	0.35	0.12	-0.37	-0.37	0	0	0	0	0	0
9/9/2024 16:08	14403	SSLA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/9/2024 16:10	66203	SISP_T2	0	0	0	0	0	0	-0.38	-0.57	1	1	0	1200	1200	0
9/9/2024 16:10	14401	SSLA_T1	8	10	2	0.23	0.35	0.12	-0.37	-0.37	0	0	0	0	0	0
9/9/2024 16:10	46001	BERW_T1	0	1	1	0	0.3	0.3	0.88	0.84	0	0	0	0	0	0
9/9/2024 16:10	14402	SSLA_T1	75	107	32	0.16	0.19	0.03	0	0	0	0	0	0	0	0
9/9/2024 16:10	46005	BERW_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
9/9/2024 16:10	14403	SSLA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/9/2024 16:10	14404	SSLA_T1	3	5	2	0.27	0.44	0.17	0	0	0	0	0	0	0	0
9/9/2024 16:12	46005	BERW_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
9/9/2024 16:12	46001	BERW_T1	0	1	1	0	0.3	0.3	0.88	0.84	0	0	0	0	0	0
9/9/2024 16:13	50107	HARR_T3	1	1	0	7.4	6.8	-0.6	0	0	0	0	0	0	0	0
9/9/2024 16:13	50201	HARR_T3	0	0	0	0	0	0	0	0.01	1	1	0	1200	1200	0
9/9/2024 16:13	50105	HARR_T3	6	6	0	6.23	6.2	-0.03	0	0	0	0	0	0	0	0
9/9/2024 16:15	48901	FOSP_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/9/2024 16:15	48902	FOSP_T2	0	0	0	0	0	0	0.11	0.25	0	0	0	0	0	0
9/9/2024 16:16	10801	CHHI_T1	3	0	-3	0.67	0	-0.67	-0.58	-0.54	1	1	0	900	900	0
9/9/2024 16:16	67502	WEWI_T2	2	2	0	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
9/9/2024 16:16	67503	WEWI_T2	1	1	0	8.2	7.8	-0.4	0.07	0.07	0	0	0	0	0	0
9/9/2024 16:17	63501	HEID_TBK1-2	34	35	1	0.57	0.51	-0.06	-0.11	-0.11	1	1	0	900	900	0
9/9/2024 16:22	43101	SMIL_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
9/9/2024 16:22	43105	SMIL_T2	9	9	0	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
9/9/2024 16:22	43103	SMIL_T2	22	21	-1	0.84	0.55	-0.29	0	0	0	0	0	0	0	0
9/9/2024 16:22	43108	SMIL_T2	0	0	0	0	0	0	-0.96	-1.02	1	1	0	1200	1200	0
9/9/2024 16:22	43102	SMIL_T2	6	6	0	0.73	0.53	-0.2	0	0	0	0	0	0	0	0
9/9/2024 16:23	60701	BREC_T1	0	0	0	0	0	0	-0.39	-0.41	1	1	0	600	600	0
9/9/2024 16:23	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 16:24	60701	BREC_T1	0	0	0	0	0	0	-0.39	-0.41	1	1	0	600	600	0
9/9/2024 16:24	53903	HALI_T2	2	2	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
9/9/2024 16:24	53902	HALI_T2	2	1	-1	2.85	5.4	2.55	0	0	0	0	0	0	0	0
9/9/2024 16:24	53901	HALI_T2	1	1	0	1.1	1	-0.1	-1.2	-1.19	0	0	0	0	0	0
9/9/2024 16:26	60701	BREC_T1	0	0	0	0	0	0	-0.77	-0.83	2	2	0	1200	1200	0
9/9/2024 16:27	60701	BREC_T1	0	0	0	0	0	0	-0.77	-0.83	2	2	0	1200	1200	0
9/9/2024 16:28	60701	BREC_T1	0	0	0	0	0	0	-1.16	-1.24	3	3	0	1800	1800	0
9/9/2024 16:29	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.07	0	0	0	0	0	0
9/9/2024 16:29	60701	BREC_T1	0	0	0	0	0	0	-0.39	-0.41	1	1	0	600	600	0
9/9/2024 16:29	23201	HIRU_T2	4	1	-3	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/9/2024 16:29	23202	HIRU_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/9/2024 16:31	67503	WEWI_T2	1	1	0	7.8	7.7	-0.1	0.07	0.07	0	0	0	0	0	0
9/9/2024 16:31	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 16:31	67502	WEWI_T2	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/9/2024 16:32	64101	REFR_T1	1	1	0	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
9/9/2024 16:33	57006	WHHI_T2	0	0	0	0	0	0	1.26	1.24	0	0	0	0	0	0
9/9/2024 16:34	47104	MARL_T1	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
9/9/2024 16:35	47104	MARL_T1	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
9/9/2024 16:43	40602	PIGR_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
9/9/2024 16:43	40601	PIGR_T1	134	126	-8	0.3	0.3	0	0	0	0	0	0	0	0	0
9/9/2024 16:44	63801	HEMP_T1	0	1	1	0	0.1	0.1	-0.81	-0.8	1	1	0	900	900	0
9/9/2024 16:44	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
9/9/2024 16:46	53903	HALI_T2	2	2	0	1.3	1.25	-0.05	0	0	0	0	0	0	0	0
9/9/2024 16:46	63401	HONY_T1	0	0	0	0	0	0	0.15	0.19	1	1	0	600	600	0
9/9/2024 16:46	53901	HALI_T2	1	1	0	1	1	0	-1.19	-1.18	0	0	0	0	0	0
9/9/2024 16:46	53902	HALI_T2	1	2	1	5.3	2.55	-2.75	0	0	0	0	0	0	0	0
9/9/2024 16:47	40902	JESH_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/9/2024 16:47	67503	WEWI_T2	1	1	0	7.7	7.3	-0.4	0.07	0.06	0	0	0	0	0	0
9/9/2024 16:47	67502	WEWI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/9/2024 16:48	53901	HALI_T2	1	1	0	1	1	0	-3.57	-3.54	0	0	0	0	0	0
9/9/2024 16:48	53902	HALI_T2	1	2	1	5.3	2.55	-2.75	0	0	0	0	0	0	0	0
9/9/2024 16:48	53903	HALI_T2	2	2	0	1.3	1.25	-0.05	0	0	0	0	0	0	0	0
9/9/2024 16:49	53902	HALI_T2	1	2	1	5.3	2.55	-2.75	0	0	0	0	0	0	0	0
9/9/2024 16:49	63401	HONY_T1	0	0	0	0	0	0	0.3	0.39	2	2	0	1200	1200	0
9/9/2024 16:49	53901	HALI_T2	1	1	0	1	1	0	-1.19	-1.18	0	0	0	0	0	0
9/9/2024 16:49	53903	HALI_T2	2	2	0	1.3	1.25	-0.05	0	0	0	0	0	0	0	0
9/9/2024 16:54	43103	SMIL_T2	13	10	-3	0.38	0.38	0	0	0	0	0	0	0	0	0
9/9/2024 16:54	43102	SMIL_T2	4	4	0	0.58	0.45	-0.13	0	0	0	0	0	0	0	0
9/9/2024 16:54	43105	SMIL_T2	9	5	-4	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
9/9/2024 16:54	43108	SMIL_T2	0	0	0	0	0	0	-0.94	-0.95	1	1	0	1200	1200	0
9/9/2024 17:01	64202	KINZ_T1	3	1	-2	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
9/9/2024 17:01	46101	MACI_T2	0	0	0	0	0	0	-0.12	0.76	1	0	-1	1200	0	-1200
9/9/2024 17:01	64204	KINZ_T1	3	2	-1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/9/2024 17:01	64201	KINZ_T1	1	2	1	0.5	0.35	-0.15	-0.64	-0.46	3	2	-1	1500	1200	-300
9/9/2024 17:02	64201	KINZ_T1	1	2	1	0.5	0.35	-0.15	-0.64	-0.46	3	2	-1	1500	1200	-300
9/9/2024 17:02	64204	KINZ_T1	3	2	-1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/9/2024 17:02	64202	KINZ_T1	3	1	-2	0.23	0.1	-0.13	0.9	0.96	0	0	0	0	0	0
9/9/2024 17:03	45802	HEGI_T2	46	28	-18	1.28	0.66	-0.62	1.45	2.05	2	0	-2	600	0	-600
9/9/2024 17:04	12606	MACA_T1	0	0	0	0	0	0	0.84	0.82	0	0	0	0	0	0
9/9/2024 17:05	46001	BERW_T1	0	0	0	0	0	0	0.8	0.74	0	0	0	0	0	0
9/9/2024 17:05	46005	BERW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 17:06	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 17:08	24603	VARD_T2	11	19	8	0.26	0.26	0	0	0	0	0	0	0	0	0
9/9/2024 17:08	24602	VARD_T2	56	28	-28	0.22	0.33	0.11	0	0	0	0	0	0	0	0
9/9/2024 17:10	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	0.18	0.31	0	0	0	0	0	0
9/9/2024 17:10	20401	ASHF_T2	5	8	3	0.56	0.45	-0.11	0	0	0	0	0	0	0	0
9/9/2024 17:12	46206	DANV_T2	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
9/9/2024 17:12	46203	DANV_T2	1	1	0	6.3	6.2	-0.1	0.56	0.58	0	0	0	0	0	0
9/9/2024 17:14	46203	DANV_T2	1	1	0	6.3	6.2	-0.1	0.56	0.58	0	0	0	0	0	0
9/9/2024 17:14	46206	DANV_T2	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
9/9/2024 17:32	47502	NECO_T1	1	1	0	0.9	1.1	0.2	0.88	0.9	0	0	0	0	0	0
9/9/2024 17:38	59101	WALK_T2	0	1	1	0	0	0	1.05	1.44	0	0	0	0	0	0
9/9/2024 17:38	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 17:44	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/9/2024 17:45	11205	ELHE_T1	1	0	-1	3.7	0	-3.7	0	0	0	0	0	0	0	0
9/9/2024 17:45	11203	ELHE_T1	0	0	0	0	0	0	1.13	1.12	0	0	0	0	0	0
9/9/2024 17:47	55405	SHER_T1	8	10	2	0.13	0.23	0.1	-0.17	-0.17	0	0	0	0	0	0
9/9/2024 17:58	42801	SELI_T1	0	0	0	0	0	0	-0.72	-0.8	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/9/2024 18:00	14602	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 18:00	14601	SWHI_T1	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
9/9/2024 18:04	14601	SWHI_T1	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
9/9/2024 18:04	14602	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 18:05	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 18:05	14602	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 18:07	65502	MOJO_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
9/9/2024 18:08	58703	ROSE_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
9/9/2024 18:08	58705	ROSE_T2	5	5	0	1.92	1.98	0.06	0	0	0	0	0	0	0	0
9/9/2024 18:09	14801	TREI_T2	0	3	3	0	0.2	0.2	0.6	0.62	0	0	0	0	0	0
9/9/2024 18:09	14802	TREI_T2	1	8	7	0.1	0.14	0.04	0	0	0	0	0	0	0	0
9/9/2024 18:17	45801	HEGI_T1	0	0	0	0	0	0	-0.13	-0.16	1	1	0	900	900	0
9/9/2024 18:21	62607	ENGL_T1	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
9/9/2024 18:22	53802	MBRG_T2	0	0	0	0	0	0	0.51	0.4	0	0	0	0	0	0
9/9/2024 18:26	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/9/2024 18:27	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 18:27	40502	CRES_T2	4	4	0	0.13	0.15	0.02	-0.28	-0.27	0	0	0	0	0	0
9/9/2024 18:29	40502	CRES_T2	4	4	0	0.13	0.15	0.02	-0.56	-0.54	0	0	0	0	0	0
9/9/2024 18:29	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 18:30	12001	HATF_T1	0	0	0	0	0	0	1.14	1.16	1	1	0	600	600	0
9/9/2024 18:30	48901	FOSP_T2	0	0	0	0	0	0	-0.4	-0.38	1	1	0	600	600	0
9/9/2024 18:32	13004	NBET_T2	0	0	0	0	0	0	-0.57	-0.59	1	1	0	600	600	0
9/9/2024 18:32	13005	NBET_T2	0	0	0	0	0	0	-0.59	-0.59	1	1	0	1200	1200	0
9/9/2024 18:32	48901	FOSP_T2	0	0	0	0	0	0	-0.4	-0.38	1	1	0	600	600	0
9/9/2024 18:32	12006	HATF_T1	0	0	0	0	0	0	0.77	0.68	1	1	0	1200	1200	0
9/9/2024 18:32	51402	LYKE_T1	0	0	0	0	0	0	-1.3	-1.32	1	1	0	600	600	0
9/9/2024 18:33	51402	LYKE_T1	0	0	0	0	0	0	-1.3	-1.32	1	1	0	600	600	0
9/9/2024 18:34	66903	SHIL_T2	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
9/9/2024 18:37	66903	SHIL_T2	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
9/9/2024 18:39	43802	SWIL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/9/2024 18:39	43801	SWIL_T1	2	2	0	3.35	3.45	0.1	0	0	0	0	0	0	0	0
9/9/2024 18:40	15202	SFAR_T1	0	0	0	0	0	0	0	-0.01	1	1	0	1200	1200	0
9/9/2024 18:52	65502	MOJO_T2	0	0	0	0	0	0	-0.44	-0.56	0	0	0	0	0	0
9/9/2024 18:52	65503	MOJO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 18:58	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	0.23	0.18	0	0	0	0	0	0
9/9/2024 18:58	20401	ASHF_T2	8	2	-6	0.53	0.65	0.12	0	0	0	0	0	0	0	0
9/9/2024 20:13	13704	SCHN_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
9/9/2024 20:21	25501	MADI_T1	4	4	0	1.4	1.25	-0.15	0	0	0	0	0	0	0	0
9/9/2024 20:21	65205	PRIN_T1	1	39	38	2	0.24	-1.76	0	0	0	0	0	0	0	0
9/9/2024 20:21	25503	MADI_T1	94	105	11	0.28	0.4	0.12	-0.95	-0.96	0	0	0	0	0	0
9/9/2024 20:26	15203	SFAR_T2	0	59	59	0	0.14	0.14	-1.13	-1.13	0	0	0	0	0	0
9/9/2024 20:32	57401	SPAN_T1	31	65	34	0.25	0.23	-0.02	-0.67	-0.68	1	1	0	600	600	0
9/9/2024 20:32	57403	SPAN_T1	16	42	26	0.23	0.24	0.01	0	0	0	0	0	0	0	0
9/9/2024 20:33	26401	INOR_T1	1	1	0	8.5	8.8	0.3	0	0	0	0	0	0	0	0
9/9/2024 20:33	26402	INOR_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
9/9/2024 20:36	50701	SMEC_T1	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
9/9/2024 20:41	16101	BING_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
9/9/2024 20:45	16103	BING_T2	0	0	0	0	0	0	-0.81	-0.87	2	2	0	1500	1500	0
9/9/2024 20:47	11901	ETEX_T2	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
9/9/2024 20:50	45902	AUBU_T1	1	8	7	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/9/2024 20:50	45901	AUBU_T1	0	0	0	0	0	0	1.62	1.62	0	0	0	0	0	0
9/9/2024 21:04	40201	BEGA_T2	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0	0
9/9/2024 21:08	20103	AVOC_T1	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
9/9/2024 21:09	55002	NEWP_T1	4	4	0	0.48	0.55	0.07	0	0	0	0	0	0	0	0
9/9/2024 21:09	55001	NEWP_T1	0	18	18	0	0.16	0.16	0	0	0	0	0	0	0	0
9/9/2024 21:10	60101	COCA_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
9/9/2024 21:11	28703	HAML_T2	3	0	-3	0.53	0.47	-0.06	0	0	0	0	0	0	0	0
9/9/2024 21:11	60101	COCA_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
9/9/2024 21:11	28704	HAML_T2	3	5	2	0.37	0.32	-0.05	0.03	0.03	0	0	0	0	0	0
9/9/2024 21:13	24201	PROV_T3	1	1	0	7.2	6.8	-0.4	0	-0.04	0	0	0	0	0	0
9/9/2024 21:13	24204	PROV_T3	1	2	1	5.8	2.95	-2.85	0	0	0	0	0	0	0	0
9/9/2024 21:13	27603	PIRI_T2	0	1	1	0	0	0	-1.25	-1.23	2	2	0	1800	1800	0
9/9/2024 21:14	21705	SUBU_T1	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
9/9/2024 21:14	21704	SUBU_T1	0	0	0	0	0	0	-2.49	-2.5	2	2	0	2400	2400	0
9/9/2024 21:14	21701	SUBU_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/9/2024 21:14	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:14	10602	BLGL_T2	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
9/9/2024 21:14	60101	COCA_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
9/9/2024 21:15	21701	SUBU_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/9/2024 21:15	27101	GFLD_T2	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
9/9/2024 21:15	21703	SUBU_T1	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
9/9/2024 21:15	60101	COCA_T1	0	0	0	0	0	0	0.49	0.42	0	0	0	0	0	0
9/9/2024 21:15	21705	SUBU_T1	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
9/9/2024 21:15	45501	DERR_T2	0	2	2	0	0.2	0.2	0.19	-0.12	2	2	0	1800	1800	0
9/9/2024 21:16	60101	COCA_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
9/9/2024 21:16	12606	MACA_T1	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
9/9/2024 21:16	57106	SPHI_T2	3	3	0	1.9	1.43	-0.47	0	0	0	0	0	0	0	0
9/9/2024 21:16	57104	SPHI_T2	0	1	1	0	0.5	0.5	-1	0.01	0	0	0	0	0	0
9/9/2024 21:16	60701	BREC_T1	2	0	-2	0.1	0	-0.1	-0.5	0.07	1	0	-1	600	0	-600
9/9/2024 21:16	62604	ENGL_T1	0	0	0	0	0	0	-0.78	-0.92	1	1	0	600	600	0
9/9/2024 21:16	57101	SPHI_T2	6	6	0	0.92	1	0.08	0	0	0	0	0	0	0	0
9/9/2024 21:17	24801	VALM_T1	0	1	1	0	0	0	-0.33	-0.35	0	0	0	0	0	0
9/9/2024 21:17	43201	MVIL_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
9/9/2024 21:17	14502	SCHO_T1	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
9/9/2024 21:18	23201	HIRU_T2	4	4	0	0.13	0.15	0.02	0.15	0.14	0	0	0	0	0	0
9/9/2024 21:18	24501	GOUL_T2	0	0	0	0	0	0	0.08	0.01	0	0	0	0	0	0
9/9/2024 21:18	46301	ROHR_T1	1	1	0	4.9	5.1	0.2	0	0	0	0	0	0	0	0
9/9/2024 21:18	21204	ECAR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:18	67503	WEWI_T2	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
9/9/2024 21:18	67502	WEWI_T2	164	10	-154	0.25	0.1	-0.15	-1.34	-0.33	1	0	-1	900	0	-900
9/9/2024 21:18	21206	ECAR_T2	1	1	0	8.2	8.2	0	0.34	0.36	0	0	0	0	0	0
9/9/2024 21:18	49802	UNIV_T2	0	0	0	0	0	0	-0.19	-0.23	0	0	0	0	0	0
9/9/2024 21:18	15203	SFAR_T2	79	141	62	0.19	0.23	0.04	-1.19	-1.18	0	0	0	0	0	0
9/9/2024 21:18	49803	UNIV_T1	1	1	0	4.7	4.7	0	-1.05	-1.05	0	0	0	0	0	0
9/9/2024 21:18	46302	ROHR_T1	4	4	0	0.8	0.9	0.1	0.14	0.14	0	0	0	0	0	0
9/9/2024 21:18	60101	COCA_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
9/9/2024 21:19	24201	PROV_T3	1	1	0	7.1	6.8	-0.3	0	-0.04	0	0	0	0	0	0
9/9/2024 21:19	46203	DANV_T2	2	1	-1	7.9	8.8	0.9	-0.76	-0.7	0	0	0	0	0	0
9/9/2024 21:19	24204	PROV_T3	1	2	1	5.8	3	-2.8	0	0	0	0	0	0	0	0
9/9/2024 21:19	15203	SFAR_T2	79	141	62	0.19	0.23	0.04	-1.19	-1.18	0	0	0	0	0	0
9/9/2024 21:19	16402	MOPO_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
9/9/2024 21:19	15703	TANN_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
9/9/2024 21:19	15702	TANN_T2	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
9/9/2024 21:19	23403	HONE_T1	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
9/9/2024 21:20	25402	LAHA_T2	134	134	0	0.7	0.57	-0.13	-0.9	-0.89	0	0	0	0	0	0
9/9/2024 21:20	17902	BART_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
9/9/2024 21:20	25404	LAHA_T2	8	8	0	0.11	0.15	0.04	0	0	0	0	0	0	0	0
9/9/2024 21:20	28805	LAKE_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
9/9/2024 21:20	47104	MARL_T1	0	0	0	0	0	0	-0.81	0.42	0	0	0	0	0	0
9/9/2024 21:20	44801	EDAN_T2	211	253	42	0.48	0.5	0.02	0	0	0	0	0	0	0	0
9/9/2024 21:20	13004	NBET_T2	0	0	0	0	0	0	-0.74	-0.76	1	1	0	600	600	0
9/9/2024 21:20	58202	NEWV_T1	0	0	0	0	0	0	0.37	0.4	0	0	0	0	0	0
9/9/2024 21:20	44802	EDAN_T2	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
9/9/2024 21:20	67502	WEWI_T2	164	10	-154	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
9/9/2024 21:20	42501	ALTA_T2	0	0	0	0	0	0	0.15	0.16	1	1	0	600	600	0
9/9/2024 21:20	13905	SEID_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
9/9/2024 21:20	10503	CRAC_T1	0	0	0	0	0	0	0.59	0.62	0	0	0	0	0	0
9/9/2024 21:20	67503	WEWI_T2	1	1	0	8.4	8.2	-0.2	-0.07	-0.13	0	0	0	0	0	0
9/9/2024 21:20	47203	FAXO_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
9/9/2024 21:20	48302	ORWI_T2	2	2	0	1.25	1.25	0	-0.06	-0.08	0	0	0	0	0	0
9/9/2024 21:21	67605	WARW_T1	23	51	28	0.65	0.54	-0.11	0	0	0	0	0	0	0	0
9/9/2024 21:21	41202	KENM_T2	1	1	0	0.6	0.7	0.1	0.58	0.57	0	0	0	0	0	0
9/9/2024 21:21	15201	SFAR_T1	0	0	0	0	0	0	0.19	0.05	1	1	0	1200	1200	0
9/9/2024 21:21	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:21	12605	MACA_T1	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
9/9/2024 21:21	16402	MOPO_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
9/9/2024 21:21	15704	TANN_T1	0	0	0	0	0	0	-0.39	-0.51	0	0	0	0	0	0
9/9/2024 21:21	27502	WEIS_T2	0	0	0	0	0	0	-0.27	-0.5	0	0	0	0	0	0
9/9/2024 21:21	20601	GRWO_T2	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
9/9/2024 21:21	13807	SALI_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
9/9/2024 21:21	11507	FREE_T2	0	0	0	0	0	0	0.62	0.81	0	0	0	0	0	0
9/9/2024 21:21	14401	SSLA_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
9/9/2024 21:21	67603	WARW_T1	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
9/9/2024 21:21	15701	TANN_T1	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
9/9/2024 21:21	16302	ALPA_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
9/9/2024 21:21	13002	NBET_T2	0	0	0	0	0	0	3.21	3.27	4	4	0	4800	4800	0
9/9/2024 21:22	15703	TANN_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
9/9/2024 21:22	60701	BREC_T1	2	0	-2	0.1	0	-0.1	0.07	0.06	0	0	0	0	0	0
9/9/2024 21:22	13501	MCMI_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
9/9/2024 21:22	63501	HEID_TBK1-2	48	49	1	0.75	0.44	-0.31	0.42	0.4	0	0	0	0	0	0
9/9/2024 21:22	48901	FOSP_T2	0	0	0	0	0	0	0.43	-0.39	1	1	0	600	600	0
9/9/2024 21:22	65001	NEFF_T2	1	49	48	0.1	0.13	0.03	-0.9	-0.85	1	1	0	1200	1200	0
9/9/2024 21:22	13005	NBET_T2	0	0	0	0	0	0	-0.79	-0.83	1	1	0	1200	1200	0
9/9/2024 21:22	66504	SMAN_T2	0	0	0	0	0	0	-0.92	-0.89	0	0	0	0	0	0
9/9/2024 21:22	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:22	47001	HUGH_T2	1	7	6	8.6	1.39	-7.21	-0.85	-0.88	0	0	0	0	0	0
9/9/2024 21:22	63602	LETO_T1	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
9/9/2024 21:22	42601	TUSC_T1	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
9/9/2024 21:22	15203	SFAR_T2	79	141	62	0.19	0.23	0.04	-1.18	-1.2	0	0	0	0	0	0
9/9/2024 21:22	44802	EDAN_T2	0	0	0	0	0	0	-2.21	-2.12	0	0	0	0	0	0
9/9/2024 21:22	26002	WDAM_T1	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/9/2024 21:22	67605	WARW_T1	23	51	28	0.65	0.54	-0.11	-1.21	-1.21	0	0	0	0	0	0
9/9/2024 21:22	45902	AUBU_T1	8	9	1	0.13	0.14	0.01	-0.97	-1	1	1	0	600	600	0
9/9/2024 21:22	44801	EDAN_T2	211	253	42	0.48	0.5	0.02	0	0	0	0	0	0	0	0
9/9/2024 21:22	23201	HIRU_T2	4	4	0	0.13	0.15	0.02	0	0	0	0	0	0	0	0
9/9/2024 21:22	42001	MNVL_T2	258	282	24	0.95	1.14	0.19	-0.31	-0.32	0	0	0	0	0	0
9/9/2024 21:22	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/9/2024 21:22	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:22	45901	AUBU_T1	0	0	0	0	0	0	1.76	1.95	0	0	0	0	0	0
9/9/2024 21:22	23203	HIRU_T2	0	0	0	0	0	0	0.07	0	0	0	0	0	0	0
9/9/2024 21:22	57403	SPAN_T1	57	78	21	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
9/9/2024 21:22	42002	MNVL_T2	1	1	0	2.6	2.3	-0.3	0	0	0	0	0	0	0	0
9/9/2024 21:22	26001	WDAM_T1	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/9/2024 21:22	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.44	0	0	0	0	0	0
9/9/2024 21:22	57401	SPAN_T1	156	295	139	0.23	0.27	0.04	-0.71	-0.45	1	0	-1	600	0	-600
9/9/2024 21:22	66505	SMAN_T2	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/9/2024 21:23	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:23	55002	NEWP_T1	4	5	1	0.43	0.58	0.15	0	0	0	0	0	0	0	0
9/9/2024 21:23	63402	HONY_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:23	64902	MILL_T2	0	0	0	0	0	0	-0.6	-0.58	1	1	0	900	900	0
9/9/2024 21:23	61506	EPET_T2	0	0	0	0	0	0	-0.01	0.04	0	0	0	0	0	0
9/9/2024 21:23	53903	HALI_T2	2	2	0	0.85	1.15	0.3	0	0	0	0	0	0	0	0
9/9/2024 21:23	23203	HIRU_T2	0	0	0	0	0	0	0.07	0	0	0	0	0	0	0
9/9/2024 21:23	63403	HONY_T2	0	0	0	0	0	0	-0.59	-0.61	1	1	0	600	600	0
9/9/2024 21:23	60701	BREC_T1	2	0	-2	0.1	0	-0.1	0.07	0.06	0	0	0	0	0	0
9/9/2024 21:23	14401	SSLA_T1	0	0	0	0	0	0	-1.08	-1.08	0	0	0	0	0	0
9/9/2024 21:23	54504	ENOL_T2	0	0	0	0	0	0	-1.64	-1.61	1	1	0	600	600	0
9/9/2024 21:23	13001	NBET_T2	0	0	0	0	0	0	0.46	0.42	0	0	0	0	0	0
9/9/2024 21:23	61501	EPET_T2	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
9/9/2024 21:23	23201	HIRU_T2	4	4	0	0.13	0.15	0.02	0	0	0	0	0	0	0	0
9/9/2024 21:23	53901	HALI_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/9/2024 21:23	60801	BUCK_T1	21	51	30	0.2	0.29	0.09	0	0	0	0	0	0	0	0
9/9/2024 21:23	29202	APPE_T1	9	77	68	0.12	0.2	0.08	0	0	0	0	0	0	0	0
9/9/2024 21:23	41205	KENM_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
9/9/2024 21:23	55001	NEWP_T1	2	23	21	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/9/2024 21:23	46001	BERW_T1	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
9/9/2024 21:23	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:23	53902	HALI_T2	1	1	0	4.8	4.8	0	0.44	0.43	0	0	0	0	0	0
9/9/2024 21:23	29201	APPE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:23	11104	EGYP_T1	0	0	0	0	0	0	1.04	0.96	0	0	0	0	0	0
9/9/2024 21:23	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:23	14801	TREI_T2	0	0	0	0	0	0	0.43	0.47	0	0	0	0	0	0
9/9/2024 21:23	51304	WIND_T2	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
9/9/2024 21:23	60803	BUCK_T1	11	15	4	0.16	0.34	0.18	-0.51	-0.5	1	1	0	600	600	0
9/9/2024 21:23	41202	KENM_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:23	14802	TREI_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
9/9/2024 21:23	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:24	48302	ORWI_T2	2	2	0	1.25	1.25	0	-0.08	-0.11	0	0	0	0	0	0
9/9/2024 21:24	55002	NEWP_T1	4	5	1	0.43	0.58	0.15	0	0	0	0	0	0	0	0
9/9/2024 21:24	64903	MILL_T2	0	0	0	0	0	0	0.27	0.32	0	0	0	0	0	0
9/9/2024 21:24	16102	BING_T2	0	0	0	0	0	0	0.88	0.92	0	0	0	0	0	0
9/9/2024 21:24	47401	PENS_T1	0	0	0	0	0	0	0.41	0.54	0	0	0	0	0	0
9/9/2024 21:24	62605	ENGL_T1	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
9/9/2024 21:24	53501	EVIL_T2	2	2	0	0.4	0.75	0.35	-0.02	-0.02	3	3	0	1800	1800	0
9/9/2024 21:24	53903	HALI_T2	2	2	0	0.85	1.15	0.3	0	0	0	0	0	0	0	0
9/9/2024 21:24	65207	PRIN_T4	14	58	44	0.26	0.19	-0.07	0	0	1	1	0	1200	1200	0
9/9/2024 21:24	16302	ALPA_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
9/9/2024 21:24	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:24	14602	SWHI_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/9/2024 21:24	55001	NEWP_T1	2	23	21	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/9/2024 21:24	40201	BEGA_T2	3	3	0	0.23	0.25	0.02	0	0	0	0	0	0	0	0
9/9/2024 21:24	52004	LING_T2	2	3	1	6.55	4.53	-2.02	0.36	0.25	0	0	0	0	0	0
9/9/2024 21:24	62607	ENGL_T1	0	0	0	0	0	0	-1.01	-1.03	1	1	0	300	300	0
9/9/2024 21:24	12801	MICK_T1	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
9/9/2024 21:24	65206	PRIN_T4	8	26	18	0.1	0.12	0.02	0	0	0	0	0	0	0	0
9/9/2024 21:24	12807	MICK_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:24	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/9/2024 21:24	66505	SMAN_T2	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/9/2024 21:24	52002	LING_T2	1	1	0	0.8	1.4	0.6	0	0	0	0	0	0	0	0
9/9/2024 21:24	53902	HALI_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
9/9/2024 21:24	62604	ENGL_T1	0	0	0	0	0	0	-0.92	-0.99	1	1	0	600	600	0
9/9/2024 21:24	67602	WARW_T2	1	1	0	0.7	0.6	-0.1	1.49	1.45	1	1	0	300	300	0
9/9/2024 21:24	53901	HALI_T2	1	1	0	0.5	0.8	0.3	-1.29	-1.29	0	0	0	0	0	0
9/9/2024 21:24	52006	LING_T2	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
9/9/2024 21:24	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:25	45902	AUBU_T1	8	9	1	0.13	0.14	0.01	-2.9	-2.99	3	3	0	1800	1800	0
9/9/2024 21:25	59202	THOM_T1	21	36	15	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
9/9/2024 21:25	42201	SHEN_T2	0	0	0	0	0	0	0.67	0.65	0	0	0	0	0	0
9/9/2024 21:25	10805	CHHI_T2	1	1	0	7.4	7.3	-0.1	-0.84	-0.92	1	1	0	600	600	0
9/9/2024 21:25	46504	LOHA_T1	2	5	3	0.15	0.4	0.25	0	0	0	0	0	0	0	0
9/9/2024 21:25	24105	EHAZ_T1	4	4	0	5.93	5.7	-0.23	0	0	0	0	0	0	0	0
9/9/2024 21:25	14802	TREI_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
9/9/2024 21:25	42002	MNVL_T2	1	1	0	2.6	2.3	-0.3	0	0	0	0	0	0	0	0
9/9/2024 21:25	40601	PIGR_T1	18	7	-11	0.12	0.13	0.01	0	0	0	0	0	0	0	0
9/9/2024 21:25	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:25	57403	SPAN_T1	57	78	21	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
9/9/2024 21:25	60701	BREC_T1	2	0	-2	0.1	0	-0.1	0.14	0.12	0	0	0	0	0	0
9/9/2024 21:25	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
9/9/2024 21:25	45602	WOOL_T1	0	1	1	0	0.2	0.2	0.58	0.58	0	0	0	0	0	0
9/9/2024 21:25	15202	SFAR_T1	0	0	0	0	0	0	-0.22	-0.21	1	1	0	1200	1200	0
9/9/2024 21:25	46501	LOHA_T1	0	0	0	0	0	0	-0.04	-0.09	2	2	0	2400	2400	0
9/9/2024 21:25	57401	SPAN_T1	156	295	139	0.23	0.27	0.04	-0.71	-0.45	1	0	-1	600	0	-600
9/9/2024 21:25	45501	DERR_T2	0	2	2	0	0.2	0.2	-0.12	-0.06	2	2	0	1800	1800	0
9/9/2024 21:25	14404	SSLA_T1	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
9/9/2024 21:25	40602	PIGR_T1	1	1	0	1.1	0.8	-0.3	0.11	0.09	0	0	0	0	0	0
9/9/2024 21:25	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:25	42001	MNVL_T2	258	282	24	0.95	1.14	0.19	-0.31	-0.32	0	0	0	0	0	0
9/9/2024 21:25	40902	JESH_T1	7	111	104	0.13	0.14	0.01	0	0	0	0	0	0	0	0
9/9/2024 21:25	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:25	15703	TANN_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
9/9/2024 21:25	48302	ORWI_T2	2	2	0	1.25	1.25	0	0	0	0	0	0	0	0	0
9/9/2024 21:25	43402	BENT_T1	0	0	0	0	0	0	-0.65	-0.65	1	1	0	600	600	0
9/9/2024 21:25	46506	LOHA_T1	3	3	0	6.37	6.7	0.33	0	0	0	0	0	0	0	0
9/9/2024 21:25	24102	EHAZ_T1	0	1	1	0	0	0	0.59	0.58	0	0	0	0	0	0
9/9/2024 21:25	16302	ALPA_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
9/9/2024 21:25	66903	SHIL_T2	0	0	0	0	0	0	-0.92	-0.95	0	0	0	0	0	0
9/9/2024 21:25	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:25	66901	SHIL_T2	113	290	177	0.13	0.28	0.15	0	0	0	0	0	0	0	0
9/9/2024 21:25	40201	BEGA_T2	3	3	0	0.23	0.25	0.02	0	0	0	0	0	0	0	0
9/9/2024 21:25	13303	ORVI_T1	0	0	0	0	0	0	0.95	1.01	0	0	0	0	0	0
9/9/2024 21:25	40903	JESH_T1	2	24	22	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/9/2024 21:25	66902	SHIL_T2	0	19	19	0	0.11	0.11	0	0	0	0	0	0	0	0
9/9/2024 21:25	59201	THOM_T1	8	8	0	0.18	0.21	0.03	0	0	0	0	0	0	0	0
9/9/2024 21:25	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/9/2024 21:25	67702	WERN_T2	0	0	0	0	0	0	0.49	0.43	0	0	0	0	0	0
9/9/2024 21:25	40901	JESH_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:25	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.44	0	0	0	0	0	0
9/9/2024 21:26	62607	ENGL_T1	0	0	0	0	0	0	-1.01	-1.03	1	1	0	300	300	0
9/9/2024 21:26	64302	LINC_T2	0	0	0	0	0	0	1.15	1.04	0	0	0	0	0	0
9/9/2024 21:26	57401	SPAN_T1	156	295	139	0.23	0.27	0.04	-0.71	-0.45	1	0	-1	600	0	-600
9/9/2024 21:26	62101	ELAN_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:26	40701	FFLD_T1	1	9	8	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/9/2024 21:26	52002	LING_T2	1	1	0	0.8	1.4	0.6	-0.04	-0.03	0	0	0	0	0	0
9/9/2024 21:26	66703	STRA_T1	14	6	-8	0.31	0.46	0.15	-0.36	-0.39	0	0	0	0	0	0
9/9/2024 21:26	44701	MUNC_T2	343	307	-36	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
9/9/2024 21:26	44702	MUNC_T2	114	74	-40	0.55	0.29	-0.26	0	0	0	0	0	0	0	0
9/9/2024 21:26	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/9/2024 21:26	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:26	13002	NBET_T2	0	0	0	0	0	0	-1.6	-1.63	2	2	0	2400	2400	0
9/9/2024 21:26	24602	VARD_T2	94	157	63	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
9/9/2024 21:26	50107	HARR_T3	1	1	0	7.3	6.7	-0.6	0	0	0	0	0	0	0	0
9/9/2024 21:26	57403	SPAN_T1	57	78	21	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
9/9/2024 21:26	52004	LING_T2	2	3	1	6.55	4.53	-2.02	0	0	0	0	0	0	0	0
9/9/2024 21:26	50103	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:26	62605	ENGL_T1	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
9/9/2024 21:26	65604	QVIL_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
9/9/2024 21:26	23901	EFMO_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
9/9/2024 21:26	63501	HEID_T8K1-2	48	49	1	0.75	0.44	-0.31	0.42	0.4	0	0	0	0	0	0
9/9/2024 21:26	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
9/9/2024 21:26	62103	ELAN_T1	1	4	3	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/9/2024 21:26	24603	VARD_T2	42	61	19	0.31	0.23	-0.08	0	0	0	0	0	0	0	0
9/9/2024 21:26	62106	ELAN_T1	10	20	10	0.17	0.25	0.08	0	-0.01	0	0	0	0	0	0
9/9/2024 21:26	50201	HARR_T3	1	1	0	0.3	0.3	0	0	0	1	1	0	1200	1200	0
9/9/2024 21:26	12002	HATF_T1	0	0	0	0	0	0	0.14	0.01	1	1	0	1200	1200	0
9/9/2024 21:26	42601	TUSC_T1	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
9/9/2024 21:26	46506	LOHA_T1	3	3	0	6.37	6.7	0.33	0	0	0	0	0	0	0	0
9/9/2024 21:26	46504	LOHA_T1	2	5	3	0.15	0.4	0.25	0	0	0	0	0	0	0	0
9/9/2024 21:26	14202	EALL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:26	47104	MARL_T1	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
9/9/2024 21:26	65602	QVIL_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
9/9/2024 21:26	60701	BREC_T1	2	0	-2	0.1	0	-0.1	0.07	0.06	0	0	0	0	0	0
9/9/2024 21:26	63602	LETO_T1	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
9/9/2024 21:26	52006	LING_T2	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
9/9/2024 21:26	60803	BUCK_T1	11	15	4	0.16	0.34	0.18	-0.51	-0.5	1	1	0	600	600	0
9/9/2024 21:26	44801	EDAN_T2	211	253	42	0.48	0.5	0.02	-1.67	-1.68	0	0	0	0	0	0
9/9/2024 21:26	50105	HARR_T3	6	6	0	5.9	5.75	-0.15	0	0	0	0	0	0	0	0
9/9/2024 21:26	44703	MUNC_T2	2	2	0	1.6	1.3	-0.3	0	0	0	0	0	0	0	0
9/9/2024 21:26	53802	MBRG_T2	0	0	0	0	0	0	0.4	0.52	0	0	0	0	0	0
9/9/2024 21:26	62105	ELAN_T1	122	213	91	0.14	0.22	0.08	0	0	0	0	0	0	0	0
9/9/2024 21:26	60801	BUCK_T1	21	51	30	0.2	0.29	0.09	-0.25	-0.24	0	0	0	0	0	0
9/9/2024 21:26	67502	WEWI_T2	164	10	-154	0.25	0.1	-0.15	-0.65	-0.91	0	0	0	0	0	0
9/9/2024 21:26	46501	LOHA_T1	0	0	0	0	0	0	-0.02	-0.05	1	1	0	1200	1200	0
9/9/2024 21:26	46203	DANV_T2	2	1	-1	7.9	8.8	0.9	-0.7	-0.72	0	0	0	0	0	0
9/9/2024 21:26	48902	FOSP_T2	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
9/9/2024 21:26	67503	WEWI_T2	1	1	0	8.4	8.2	-0.2	-0.13	0.04	0	0	0	0	0	0
9/9/2024 21:26	50202	HARR_T3	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/9/2024 21:26	66505	SMAN_T2	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/9/2024 21:26	20601	GRWO_T2	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
9/9/2024 21:26	66504	SMAN_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
9/9/2024 21:26	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:26	65601	QVIL_T2	0	37	37	0	0.14	0.14	0	0	0	0	0	0	0	0
9/9/2024 21:26	14204	EALL_T2	0	0	0	0	0	0	1.03	1	0	0	0	0	0	0
9/9/2024 21:26	45801	HEGI_T1	0	0	0	0	0	0	-0.11	-0.13	1	1	0	900	900	0
9/9/2024 21:27	55103	WERT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:27	43103	SMIL_T2	21	20	-1	0.67	0.7	0.03	0	0	0	0	0	0	0	0
9/9/2024 21:27	54505	ENOL_T2	1	1	0	1	1.1	0.1	-0.66	-0.65	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/9/2024 21:27	20403	ASHF_T2	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
9/9/2024 21:27	12605	MACA_T1	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
9/9/2024 21:27	49803	UNIV_T1	1	1	0	4.7	4.7	0	-1.05	-1.09	0	0	0	0	0	0
9/9/2024 21:27	63804	HEMP_T1	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
9/9/2024 21:27	14403	SSLA_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
9/9/2024 21:27	63501	HEID_TBK1-2	48	49	1	0.75	0.44	-0.31	0.42	0.4	0	0	0	0	0	0
9/9/2024 21:27	20401	ASHF_T2	3	4	1	0.47	0.53	0.06	0	0	0	0	0	0	0	0
9/9/2024 21:27	50502	MECH_T1	162	235	73	0.68	0.61	-0.07	-0.35	-0.33	1	1	0	900	900	0
9/9/2024 21:27	45602	WOOL_T1	0	1	1	0	0.2	0.2	0.58	0.58	0	0	0	0	0	0
9/9/2024 21:27	44801	EDAN_T2	211	253	42	0.48	0.5	0.02	-3.35	-3.37	0	0	0	0	0	0
9/9/2024 21:27	46001	BERW_T1	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
9/9/2024 21:27	45902	AUBU_T1	8	9	1	0.13	0.14	0.01	-0.97	-1	1	1	0	600	600	0
9/9/2024 21:27	67502	WEWI_T2	164	10	-154	0.25	0.1	-0.15	-0.33	-0.46	0	0	0	0	0	0
9/9/2024 21:27	47401	PENS_T1	0	0	0	0	0	0	0.41	0.54	0	0	0	0	0	0
9/9/2024 21:27	44702	MUNC_T2	114	74	-40	0.55	0.29	-0.26	0	0	0	0	0	0	0	0
9/9/2024 21:27	43105	SMIL_T2	25	25	0	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
9/9/2024 21:27	57004	WHHI_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
9/9/2024 21:27	64202	KINZ_T1	3	3	0	0.8	0.97	0.17	0	0	0	0	0	0	0	0
9/9/2024 21:27	47001	HUGH_T2	1	7	6	8.6	1.39	-7.21	-0.85	-0.88	0	0	0	0	0	0
9/9/2024 21:27	52002	LING_T2	1	1	0	0.8	1.4	0.6	-0.04	-0.03	0	0	0	0	0	0
9/9/2024 21:27	67503	WEWI_T2	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
9/9/2024 21:27	14603	SWHI_T1	0	0	0	0	0	0	-0.27	-0.21	0	0	0	0	0	0
9/9/2024 21:27	44701	MUNC_T2	343	307	-36	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
9/9/2024 21:27	14801	TREI_T2	0	0	0	0	0	0	0.43	0.47	0	0	0	0	0	0
9/9/2024 21:27	15204	SFAR_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
9/9/2024 21:27	67602	WARW_T2	1	1	0	0.7	0.6	-0.1	1.49	1.45	1	1	0	300	300	0
9/9/2024 21:27	64204	KINZ_T1	1	5	4	1.4	0.4	-1	0	0	0	0	0	0	0	0
9/9/2024 21:27	63803	HEMP_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
9/9/2024 21:27	22905	HARW_T1	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
9/9/2024 21:27	60701	BREC_T1	2	0	-2	0.1	0	-0.1	0.07	0.06	0	0	0	0	0	0
9/9/2024 21:27	44703	MUNC_T2	2	2	0	1.6	1.3	-0.3	0.81	0.83	0	0	0	0	0	0
9/9/2024 21:27	66703	STRA_T1	14	6	-8	0.31	0.46	0.15	-0.36	-0.39	0	0	0	0	0	0
9/9/2024 21:27	52004	LING_T2	2	3	1	6.55	4.53	-2.02	0.36	0.25	0	0	0	0	0	0
9/9/2024 21:27	15203	SFAR_T2	79	141	62	0.19	0.23	0.04	-2.35	-2.4	0	0	0	0	0	0
9/9/2024 21:27	24801	VALM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:27	50504	MECH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:27	53501	EVIL_T2	2	2	0	0.4	0.75	0.35	-0.01	-0.01	1	1	0	600	600	0
9/9/2024 21:27	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
9/9/2024 21:27	14602	SWHI_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/9/2024 21:27	50506	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 21:27	45901	AUBU_T1	0	0	0	0	0	0	1.76	1.95	0	0	0	0	0	0
9/9/2024 21:27	43102	SMIL_T2	9	9	0	0.83	0.8	-0.03	0	0	0	0	0	0	0	0
9/9/2024 21:27	55101	WERT_T1	0	0	0	0	0	0	-1.41	-1.47	2	2	0	1500	1500	0
9/9/2024 21:27	64801	MONE_T2	0	1	1	0	0.2	0.2	0.26	0.26	0	0	0	0	0	0
9/9/2024 21:27	43108	SMIL_T2	2	3	1	0.1	0.2	0.1	-2.24	-2.12	2	2	0	2400	2400	0
9/9/2024 21:27	10504	CRAC_T1	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
9/9/2024 21:27	64201	KINZ_T1	1	6	5	0.9	0.33	-0.57	-0.46	-0.48	2	2	0	1200	1200	0
9/9/2024 21:27	64902	MILL_T2	0	0	0	0	0	0	-0.6	-0.58	1	1	0	900	900	0
9/9/2024 21:27	10805	CHHI_T2	1	1	0	7.4	7.3	-0.1	-0.84	-0.92	1	1	0	600	600	0
9/9/2024 21:27	50501	MECH_T1	4	4	0	1.25	1.65	0.4	0	0	0	0	0	0	0	0
9/9/2024 21:27	48901	FOSP_T2	0	0	0	0	0	0	-0.43	-0.39	1	1	0	600	600	0
9/9/2024 21:27	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:27	52006	LING_T2	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
9/9/2024 21:27	57006	WHHI_T2	0	0	0	0	0	0	2.79	2.79	0	0	0	0	0	0
9/9/2024 21:28	62607	ENGL_T1	0	0	0	0	0	0	-1.01	-1.03	1	1	0	300	300	0
9/9/2024 21:28	52004	LING_T2	2	3	1	6.55	4.53	-2.02	0.36	0.25	0	0	0	0	0	0
9/9/2024 21:28	54202	PENN_T2	0	1	1	0	0.1	0.1	0.65	0.6	0	0	0	0	0	0
9/9/2024 21:28	67502	WEWI_T2	164	10	-154	0.25	0.1	-0.15	-0.33	-0.46	0	0	0	0	0	0
9/9/2024 21:28	53501	EVIL_T2	2	2	0	0.4	0.75	0.35	-0.02	-0.02	3	3	0	1800	1800	0
9/9/2024 21:28	11202	ELHE_T2	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
9/9/2024 21:28	59002	MIFF_T1	5	6	1	0.92	0.8	-0.12	0	0	0	0	0	0	0	0
9/9/2024 21:28	59202	THOM_T1	21	36	15	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
9/9/2024 21:28	40201	BEGA_T2	3	3	0	0.23	0.25	0.02	0	0	0	0	0	0	0	0
9/9/2024 21:28	51906	COPA_T1	0	0	0	0	0	0	-1.05	-1.06	2	2	0	1500	1500	0
9/9/2024 21:28	42903	MIDD_T2	2	2	0	0.85	1.1	0.25	0	0	0	0	0	0	0	0
9/9/2024 21:28	52002	LING_T2	1	1	0	0.8	1.4	0.6	0	0	0	0	0	0	0	0
9/9/2024 21:28	67503	WEWI_T2	1	1	0	8.4	8.2	-0.2	0	0	0	0	0	0	0	0
9/9/2024 21:28	53903	HALI_T2	2	2	0	0.85	1.15	0.3	0	0	0	0	0	0	0	0
9/9/2024 21:28	66203	SISP_T2	0	0	0	0	0	0	-0.98	-0.96	1	1	0	1200	1200	0
9/9/2024 21:28	42802	SELI_T1	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
9/9/2024 21:28	53601	DALM_T2	1	1	0	0.2	0.3	0.1	0.02	0.15	0	0	0	0	0	0
9/9/2024 21:28	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
9/9/2024 21:28	15203	SFAR_T2	79	141	62	0.19	0.23	0.04	-1.18	-1.2	0	0	0	0	0	0
9/9/2024 21:28	52006	LING_T2	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
9/9/2024 21:28	59003	MIFF_T1	1	1	0	0.6	0.6	0	0.3	0.37	0	0	0	0	0	0
9/9/2024 21:28	46101	MACI_T2	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
9/9/2024 21:28	47104	MARL_T1	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
9/9/2024 21:28	24702	FLND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:28	58705	ROSE_T2	5	0	0	2.66	2.8	0.14	0	0	0	0	0	0	0	0
9/9/2024 21:28	23201	HIRU_T2	4	4	0	0.13	0.15	0.02	0	0	0	0	0	0	0	0
9/9/2024 21:28	54204	PENN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/9/2024 21:28	42902	MIDD_T2	0	0	0	0	0	0	-0.7	-0.8	0	0	0	0	0	0
9/9/2024 21:28	41902	REED_T1	0	0	0	0	0	0	1.08	1.05	0	0	0	0	0	0
9/9/2024 21:28	46504	LOHA_T1	2	5	3	0.15	0.4	0.25	0	0	0	0	0	0	0	0
9/9/2024 21:28	51904	COPA_T1	5	5	0	0.6	0.56	-0.04	0	0	0	0	0	0	0	0
9/9/2024 21:28	62604	ENGL_T1	0	0	0	0	0	0	-0.92	-0.99	1	1	0	600	600	0
9/9/2024 21:28	62606	ENGL_T1	0	0	0	0	0	0	-0.81	-0.83	1	1	0	900	900	0
9/9/2024 21:28	51603	DUKE_T1	0	0	0	0	0	0	-0.28	-0.36	0	0	0	0	0	0
9/9/2024 21:28	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:28	58701	ROSE_T2	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
9/9/2024 21:28	23203	HIRU_T2	0	0	0	0	0	0	0.07	0	0	0	0	0	0	0
9/9/2024 21:28	53902	HALI_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
9/9/2024 21:28	45902	AUBU_T1	8	9	1	0.13	0.14	0.01	-0.97	-1	1	1	0	600	600	0
9/9/2024 21:28	63601	LETO_T1	0	0	0	0	0	0	1.53	1.49	1	1	0	900	900	0
9/9/2024 21:28	59201	THOM_T1	8	8	0	0.18	0.21	0.03	0	0	0	0	0	0	0	0
9/9/2024 21:28	53901	HALI_T2	1	1	0	0.5	0.8	0.3	-2.59	-2.57	0	0	0	0	0	0
9/9/2024 21:28	46506	LOHA_T1	3	3	0	6.37	6.7	0.33	-0.04	-0.06	0	0	0	0	0	0
9/9/2024 21:28	63401	HONY_T1	0	0	0	0	0	0	-0.06	-0.05	1	1	0	600	600	0
9/9/2024 21:29	67605	WARW_T1	23	51	28	0.65	0.54	-0.11	-1.21	-1.21	0	0	0	0	0	0
9/9/2024 21:29	62101	ELAN_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:29	42503	ALTA_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
9/9/2024 21:29	44301	BEAV_T2	0	0	0	0	0	0	0.81	0.8	1	1	0	600	600	0
9/9/2024 21:29	44201	POIN_T1	87	81	-6	0.23	0.22	-0.01	-1.57	-1.57	2	2	0	2100	2100	0
9/9/2024 21:29	12604	MACA_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
9/9/2024 21:29	45602	WOOL_T1	0	1	1	0	0.2	0.2	0.58	0.58	0	0	0	0	0	0
9/9/2024 21:29	64201	KINZ_T1	1	6	5	0.9	0.33	-0.57	-0.46	-0.48	2	2	0	1200	1200	0
9/9/2024 21:29	14401	SSLA_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
9/9/2024 21:29	24702	FLND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:29	16002	DORN_T2	0	0	0	0	0	0	-0.71	-0.71	1	1	0	1200	1200	0
9/9/2024 21:29	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:29	42601	TUSC_T1	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
9/9/2024 21:29	47104	MARL_T1	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
9/9/2024 21:29	12606	MACA_T1	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
9/9/2024 21:29	66703	STRA_T1	14	6	-8	0.31	0.46	0.15	-0.36	-0.39	0	0	0	0	0	0
9/9/2024 21:29	62105	ELAN_T1	122	213	91	0.14	0.22	0.08	0.49	0.47	0	0	0	0	0	0
9/9/2024 21:29	63501	HEID_TBK1-2	48	49	1	0.75	0.44	-0.31	0.42	0.4	0	0	0	0	0	0
9/9/2024 21:29	64802	MONE_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
9/9/2024 21:29	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:29	64202	KINZ_T1	3	3	0	0.8	0.97	0.17	0	0	0	0	0	0	0	0
9/9/2024 21:29	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 21:29	14602	SWHI_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/9/2024 21:29	12001	HATF_T1	0	0	0	0	0	0	0.72	0.76	1	1	0	600	600	0
9/9/2024 21:29	62103	ELAN_T1	1	4	3	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/9/2024 21:29	51304	WIND_T2	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
9/9/2024 21:29	14404	SSLA_T1	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
9/9/2024 21:29	15203	SFAR_T2	79	141	62	0.19	0.23	0.04	-2.35	-2.4	0	0	0	0	0	0
9/9/2024 21:29	65503	MOJO_T2	0	0	0	0	0	0	-0.32	-0.36	0	0	0	0	0	0
9/9/2024 21:29	47101	MARL_T1	0	0	0	0	0	0	-0.3	-0.34	0	0	0	0	0	0
9/9/2024 21:29	62604	ENGL_T1	0	0	0	0	0	0	-0.92	-0.99	1	1	0	600	600	0
9/9/2024 21:29	65502	MOJO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:29	40802	EXCH_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
9/9/2024 21:29	13103	NHAM_T2	0	0	0	0	0	0	-1.59	-1.68	1	1	0	600	600	0
9/9/2024 21:29	62106	ELAN_T1	10	20	10	0.17	0.25	0.08	0	0	0	0	0	0	0	0
9/9/2024 21:29	45402	WBLO_T2	89	92	3	0.45	0.45	0	-1.22	-1.2	1	1	0	900	900	0
9/9/2024 21:29	64204	KINZ_T1	1	5	4	1.4	0.4	-1	0	0	0	0	0	0	0	0
9/9/2024 21:29	14603	SWHI_T1	0	0	0	0	0	0	-0.27	-0.21	0	0	0	0	0	0
9/9/2024 21:30	43105	SMIL_T2	25	18	-7	0.34	0.3	-0.04	0	0	0	0	0	0	0	0
9/9/2024 21:30	24104	EHAZ_T1	0	0	0	0	0	0	-0.83	-0.86	1	1	0	1200	1200	0
9/9/2024 21:30	13002	NBET_T2	0	0	0	0	0	0	-1.6	-1.63	2	2	0	2400	2400	0
9/9/2024 21:30	14601	SWHI_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
9/9/2024 21:30	53902	HALI_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
9/9/2024 21:30	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
9/9/2024 21:30	64201	KINZ_T1	5	6	1	0.34	0.32	-0.02	-0.46	-0.48	2	2	0	1200	1200	0
9/9/2024 21:30	62105	ELAN_T1	176	213	37	0.19	0.22	0.03	0	0	0	0	0	0	0	0
9/9/2024 21:30	52004	LING_T2	2	3	1	6.75	4.8	-1.95	0.36	0.25	0	0	0	0	0	0
9/9/2024 21:30	13005	NBET_T2	0	0	0	0	0	0	-0.79	-0.83	1	1	0	1200	1200	0
9/9/2024 21:30	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
9/9/2024 21:30	52006	LING_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
9/9/2024 21:30	43103	SMIL_T2	20	22	2	0.7	0.76	0.06	0	0	0	0	0	0	0	0
9/9/2024 21:30	59201	THOM_T1	6	11	5	0.18	0.24	0.06	0	0	0	0	0	0	0	0
9/9/2024 21:30	47401	PENS_T1	0	0	0	0	0	0	0.41	0.54	0	0	0	0	0	0
9/9/2024 21:30	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/9/2024 21:30	55001	NEWP_T1	18	47	29	0.16	0.26	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:30	62106	ELAN_T1	16	19	3	0.22	0.25	0.03	0	0	0	0	0	0	0	0
9/9/2024 21:30	43108	SMIL_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/9/2024 21:30	20603	GRWO_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
9/9/2024 21:30	62101	ELAN_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
9/9/2024 21:30	64305	LINC_T1	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
9/9/2024 21:30	53901	HALI_T2	1	1	0	0.8	1	0.2	-1.29	-1.29	0	0	0	0	0	0
9/9/2024 21:30	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/9/2024 21:30	12006	HATF_T1	0	0	0	0	0	0	0.35	0.32	1	1	0	1200	1200	0
9/9/2024 21:30	66505	SMAN_T2	3	3	0	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
9/9/2024 21:30	52002	LING_T2	1	1	0	1.2	1.7	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/9/2024 21:30	60801	BUCK_T1	41	55	14	0.26	0.3	0.04	-0.25	-0.24	0	0	0	0	0	0
9/9/2024 21:30	42802	SEU_T1	0	0	0	0	0	0	-0.7	-0.76	0	0	0	0	0	0
9/9/2024 21:30	24105	EHAZ_T1	4	4	0	5.7	5.7	0	0	0	0	0	0	0	0	0
9/9/2024 21:30	59202	THOM_T1	22	83	61	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
9/9/2024 21:30	43102	SMIL_T2	9	6	-3	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
9/9/2024 21:30	51604	DUKE_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
9/9/2024 21:30	55002	NEWP_T1	4	6	2	0.5	0.63	0.13	0	0	0	0	0	0	0	0
9/9/2024 21:30	53903	HALI_T2	2	2	0	1.15	1.2	0.05	0	0	0	0	0	0	0	0
9/9/2024 21:30	64204	KINZ_T1	2	6	4	0.85	0.33	-0.52	0	0	0	0	0	0	0	0
9/9/2024 21:30	67602	WARW_T2	1	1	0	0.6	0.6	0	1.49	1.45	1	1	0	300	300	0
9/9/2024 21:30	60803	BUCK_T1	14	15	1	0.25	0.37	0.12	0	0	0	0	0	0	0	0
9/9/2024 21:30	24102	EHAZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
9/9/2024 21:30	64202	KINZ_T1	3	3	0	0.97	1	0.03	0.93	0.85	0	0	0	0	0	0
9/9/2024 21:30	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.11	0	0	0	0	0	0
9/9/2024 21:30	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/9/2024 21:30	63401	HONY_T1	0	0	0	0	0	0	-0.06	-0.05	1	1	0	600	600	0
9/9/2024 21:30	14401	SSLA_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
9/9/2024 21:30	43202	MVIL_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
9/9/2024 21:30	43101	SMIL_T2	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
9/9/2024 21:30	48901	FOSP_T2	0	0	0	0	0	0	-0.43	-0.39	1	1	0	600	600	0
9/9/2024 21:30	62103	ELAN_T1	4	4	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/9/2024 21:30	48902	FOSP_T2	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
9/9/2024 21:31	20401	ASHF_T2	4	5	1	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
9/9/2024 21:31	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:31	67505	WEWI_T1	0	0	0	0	0	0	-0.18	-0.18	1	1	0	900	900	0
9/9/2024 21:31	41001	LAUR_T2	30	74	44	0.13	0.25	0.12	0	0	0	0	0	0	0	0
9/9/2024 21:31	46004	BERW_T2	0	0	0	0	0	0	-0.28	-0.25	0	0	0	0	0	0
9/9/2024 21:31	57401	SPAN_T1	212	338	126	0.28	0.33	0.05	-0.71	-0.45	1	0	-1	600	0	-600
9/9/2024 21:31	54204	PENN_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/9/2024 21:31	10801	CHHI_T1	1	1	0	0.8	0	-0.8	-0.74	-0.76	1	1	0	900	900	0
9/9/2024 21:31	15203	SFAR_T2	138	199	61	0.22	0.41	0.19	-1.18	-1.2	0	0	0	0	0	0
9/9/2024 21:31	46504	LOHA_T1	2	5	3	0.4	0.4	0	0	0	0	0	0	0	0	0
9/9/2024 21:31	40502	CRES_T2	24	51	27	0.29	0.25	-0.04	0	0	0	0	0	0	0	0
9/9/2024 21:31	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:31	41502	FAIR_T2	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
9/9/2024 21:31	52403	GRPA_T2	44	96	52	0.43	0.81	0.38	-0.18	-0.22	0	0	0	0	0	0
9/9/2024 21:31	40701	FFLD_T1	9	1	-8	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
9/9/2024 21:31	51402	LYKE_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
9/9/2024 21:31	47104	MARI_T1	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
9/9/2024 21:31	54202	PENN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:31	59202	THOM_T1	22	83	61	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
9/9/2024 21:31	56501	ROCK_T2	3	2	-1	0.43	0.75	0.32	0.1	0.04	0	0	0	0	0	0
9/9/2024 21:31	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:31	15001	BLMO_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 21:31	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/9/2024 21:31	55508	HERS_T2	2	2	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
9/9/2024 21:31	52402	GRPA_T2	4	4	0	0.75	1.03	0.28	0	0	0	0	0	0	0	0
9/9/2024 21:31	57205	ROSS_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
9/9/2024 21:31	40702	FFLD_T1	0	0	0	0	0	0	-0.32	-0.23	0	0	0	0	0	0
9/9/2024 21:31	61301	EARL_T1	0	0	0	0	0	0	-0.5	-0.5	1	1	0	900	900	0
9/9/2024 21:31	57403	SPAN_T1	78	155	77	0.23	0.27	0.04	0	0	0	0	0	0	0	0
9/9/2024 21:31	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:31	46506	LOHA_T1	3	3	0	6.43	6.7	0.27	0	0	0	0	0	0	0	0
9/9/2024 21:31	43402	BENT_T1	0	0	0	0	0	0	-0.65	-0.65	1	1	0	600	600	0
9/9/2024 21:31	46501	LOHA_T1	0	0	0	0	0	0	-0.02	-0.05	1	1	0	1200	1200	0
9/9/2024 21:31	20403	ASHF_T2	0	0	0	0	0	0	0.12	0.21	0	0	0	0	0	0
9/9/2024 21:31	40501	CRES_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:31	41002	LAUR_T2	8	38	30	0.39	0.28	-0.11	0.06	0.06	0	0	0	0	0	0
9/9/2024 21:31	52002	LING_T2	1	1	0	1.2	1.7	0.5	-0.04	-0.03	0	0	0	0	0	0
9/9/2024 21:31	59201	THOM_T1	6	11	5	0.18	0.24	0.06	0	0	0	0	0	0	0	0
9/9/2024 21:31	40201	BEGA_T2	3	3	0	0.47	0.2	-0.27	0	0	0	0	0	0	0	0
9/9/2024 21:31	60801	BUCK_T1	41	55	14	0.26	0.3	0.04	-0.25	-0.24	0	0	0	0	0	0
9/9/2024 21:31	60803	BUCK_T1	14	15	1	0.25	0.37	0.12	-0.51	-0.5	1	1	0	600	600	0
9/9/2024 21:31	59101	WALK_T2	0	0	0	0	0	0	0.91	1	1	1	0	600	600	0
9/9/2024 21:31	60701	BREC_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
9/9/2024 21:31	67605	WARW_T1	41	51	10	0.56	0.53	-0.03	-1.21	-1.21	0	0	0	0	0	0
9/9/2024 21:31	13701	SCHN_T2	0	0	0	0	0	0	-0.04	-0.05	1	1	0	600	600	0
9/9/2024 21:31	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/9/2024 21:31	44801	EDAN_T2	216	313	97	0.47	0.53	0.06	-1.67	-1.68	0	0	0	0	0	0
9/9/2024 21:31	52006	LING_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
9/9/2024 21:31	52004	LING_T2	2	3	1	6.75	4.8	-1.95	0	0	0	0	0	0	0	0
9/9/2024 21:31	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:31	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/9/2024 21:31	46001	BERW_T1	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
9/9/2024 21:31	57201	ROSS_T1	3	8	5	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/9/2024 21:31	52401	GRPA_T2	1	1	0	0.1	0.3	0.2	-0.37	-0.34	0	0	0	0	0	0
9/9/2024 21:31	67602	WARW_T2	1	1	0	0.6	0.6	0	1.49	1.45	1	1	0	300	300	0
9/9/2024 21:32	67605	WARW_T1	41	51	10	0.56	0.53	-0.03	-1.21	-1.21	0	0	0	0	0	0
9/9/2024 21:32	65901	SAKR_T2	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0	0
9/9/2024 21:32	11404	FARM_T1	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
9/9/2024 21:32	53902	HALI_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
9/9/2024 21:32	62101	ELAN_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
9/9/2024 21:32	53901	HALI_T2	1	1	0	0.8	1	0.2	-3.88	-3.86	0	0	0	0	0	0
9/9/2024 21:32	62604	ENGL_T1	0	0	0	0	0	0	-0.92	-0.99	1	1	0	600	600	0
9/9/2024 21:32	63602	LETO_T1	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
9/9/2024 21:32	51402	LYKE_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
9/9/2024 21:32	47401	PENS_T1	0	0	0	0	0	0	0.41	0.54	0	0	0	0	0	0
9/9/2024 21:32	15203	SFAR_T2	138	199	61	0.22	0.41	0.19	-1.18	-1.2	0	0	0	0	0	0
9/9/2024 21:32	53502	EVIL_T2	0	1	1	0	0.1	0.1	-0.31	-0.32	1	1	0	600	600	0
9/9/2024 21:32	10903	COOP_T2	0	21	21	0	0.14	0.14	-0.33	-0.36	1	1	0	600	600	0
9/9/2024 21:32	42903	MIDD_T2	2	2	0	1.05	1.35	0.3	0	0	0	0	0	0	0	0
9/9/2024 21:32	43802	SWIL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/9/2024 21:32	59101	WALK_T2	0	0	0	0	0	0	0.91	1	1	1	0	600	600	0
9/9/2024 21:32	56504	ROCK_T2	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
9/9/2024 21:32	63401	HONY_T1	0	0	0	0	0	0	-0.06	-0.05	1	1	0	600	600	0
9/9/2024 21:32	66504	SMAN_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
9/9/2024 21:32	43801	SWIL_T1	30	7	-23	0.39	1.04	0.65	0	0	0	0	0	0	0	0
9/9/2024 21:32	53501	EVIL_T2	2	2	0	0.6	1.1	0.5	-0.01	-0.01	1	1	0	600	600	0
9/9/2024 21:32	62605	ENGL_T1	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
9/9/2024 21:32	14802	TREI_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
9/9/2024 21:32	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/9/2024 21:32	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
9/9/2024 21:32	66703	STRA_T1	5	14	9	0.26	0.3	0.04	-0.36	-0.39	0	0	0	0	0	0
9/9/2024 21:32	16302	ALPA_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
9/9/2024 21:32	53903	HALI_T2	2	2	0	1.15	1.2	0.05	0	0	0	0	0	0	0	0
9/9/2024 21:32	40602	PIGR_T1	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
9/9/2024 21:32	67703	WERN_T2	0	0	0	0	0	0	-0.15	-0.15	1	1	0	900	900	0
9/9/2024 21:32	62105	ELAN_T1	176	213	37	0.19	0.22	0.03	0.49	0.47	0	0	0	0	0	0
9/9/2024 21:32	42802	SEU_T1	0	0	0	0	0	0	-0.7	-0.76	0	0	0	0	0	0
9/9/2024 21:32	52001	LING_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
9/9/2024 21:32	67505	WEWI_T1	0	0	0	0	0	0	-0.18	-0.18	1	1	0	900	900	0
9/9/2024 21:32	44802	EDAN_T2	0	0	0	0	0	0	-0.74	-0.71	0	0	0	0	0	0
9/9/2024 21:32	11104	EGYP_T1	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
9/9/2024 21:32	66503	SMAN_T2	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
9/9/2024 21:32	60803	BUCK_T1	14	15	1	0.25	0.37	0.12	-0.51	-0.5	1	1	0	600	600	0
9/9/2024 21:32	61001	DONV_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
9/9/2024 21:32	60801	BUCK_T1	41	55	14	0.26	0.3	0.04	0	0	0	0	0	0	0	0
9/9/2024 21:32	40501	CRES_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:32	67602	WARW_T2	1	1	0	0.6	0.6	0	1.49	1.45	1	1	0	300	300	0
9/9/2024 21:32	40601	PIGR_T1	7	49	42	0.13	0.14	0.01	0	0	0	0	0	0	0	0
9/9/2024 21:32	44801	EDAN_T2	216	313	97	0.47	0.53	0.06	0	0	0	0	0	0	0	0
9/9/2024 21:32	66505	SMAN_T2	3	3	0	0.3	0.27	-0.03	0.23	0.24	1	1	0	900	900	0
9/9/2024 21:32	58402	MORO_T1	0	0	0	0	0	0	0.36	0.34	1	1	0	900	900	0
9/9/2024 21:32	57403	SPAN_T1	78	155	77	0.23	0.27	0.04	0.06	0.06	0	0	0	0	0	0
9/9/2024 21:32	11405	FARM_T1	1	1	0	4.4	3.9	-0.5	0	0	0	0	0	0	0	0
9/9/2024 21:32	65904	SAKR_T2	0	0	0	0	0	0	-1.89	-1.89	2	2	0	900	900	0
9/9/2024 21:32	41902	REED_T1	0	0	0	0	0	0	1.08	1.05	0	0	0	0	0	0
9/9/2024 21:32	57401	SPAN_T1	212	338	126	0.28	0.33	0.05	0	0	0	0	0	0	0	0
9/9/2024 21:32	56501	ROCK_T2	3	2	-1	0.43	0.75	0.32	0	0	0	0	0	0	0	0
9/9/2024 21:32	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:32	58101	NEKI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:32	46802	HEPB_T1	1	1	0	1.2	1.6	0.4	-0.22	-0.25	0	0	0	0	0	0
9/9/2024 21:32	62103	ELAN_T1	4	4	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/9/2024 21:32	40502	CRES_T2	24	51	27	0.29	0.25	-0.04	-0.39	-0.4	0	0	0	0	0	0
9/9/2024 21:32	12701	MACU_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
9/9/2024 21:32	58102	NEKI_T1	1	1	0	0.9	1	0.1	0.43	0.35	0	0	0	0	0	0
9/9/2024 21:32	62106	ELAN_T1	16	19	3	0.22	0.25	0.03	0	0	0	0	0	0	0	0
9/9/2024 21:33	55103	WERT_T1	1	1	0	7.5	0	-7.5	0	0	0	0	0	0	0	0
9/9/2024 21:33	58202	NEWV_T1	0	0	0	0	0	0	0.4	0.32	0	0	0	0	0	0
9/9/2024 21:33	66505	SMAN_T2	3	3	0	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
9/9/2024 21:33	22803	HAUT_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:33	55001	NEWP_T1	18	47	29	0.16	0.26	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:33	45501	DERR_T2	2	1	-1	4.3	0.2	-4.1	-0.12	-0.06	2	2	0	1800	1800	0
9/9/2024 21:33	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:33	62605	ENGL_T1	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
9/9/2024 21:33	58703	ROSE_T2	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
9/9/2024 21:33	40602	PIGR_T1	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
9/9/2024 21:33	13005	NBET_T2	0	0	0	0	0	0	-0.79	-0.83	1	1	0	1200	1200	0
9/9/2024 21:33	52401	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/9/2024 21:33	66903	SHIL_T2	0	0	0	0	0	0	-0.92	-0.95	0	0	0	0	0	0
9/9/2024 21:33	51603	DUKE_T1	0	0	0	0	0	0	-0.28	-0.36	0	0	0	0	0	0
9/9/2024 21:33	13704	SCHN_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
9/9/2024 21:33	22805	HAUT_T2	0	0	0	0	0	0	-1.77	-1.75	1	1	0	1200	1200	0
9/9/2024 21:33	14401	SSLA_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
9/9/2024 21:33	55101	WERT_T1	0	0	0	0	0	0	-2.82	-2.95	4	4	0	3000	3000	0
9/9/2024 21:33	14403	SSLA_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
9/9/2024 21:33	58705	ROSE_T2	5	5	0	2.7	2.86	0.16	0	0	0	0	0	0	0	0
9/9/2024 21:33	52402	GRPA_T2	4	4	0	0.75	1.03	0.28	-0.75	-0.75	0	0	0	0	0	0
9/9/2024 21:33	23001	SAJO_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
9/9/2024 21:33	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
9/9/2024 21:33	54204	PENN_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/9/2024 21:33	66901	SHIL_T2	208	284	76	0.21	0.28	0.07	0	0	0	0	0	0	0	0
9/9/2024 21:33	40502	CRES_T2	24	51	27	0.29	0.25	-0.04	-0.39	-0.4	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/9/2024 21:33	57403	SPAN_T1	78	155	77	0.23	0.27	0.04	0	0	0	0	0	0	0	0
9/9/2024 21:33	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/9/2024 21:33	45402	WBLO_T2	87	108	21	0.44	0.45	0.01	-1.22	-1.2	1	1	0	900	900	0
9/9/2024 21:33	54202	PENN_T2	0	2	2	0	0.1	0.1	0.65	0.6	0	0	0	0	0	0
9/9/2024 21:33	15703	TANN_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
9/9/2024 21:33	66902	SHIL_T2	10	18	8	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/9/2024 21:33	40901	JESH_T1	3	10	7	0.1	0.1	0	0	0	0	0	0	0	0	0
9/9/2024 21:33	55002	NEWP_T1	4	6	2	0.5	0.63	0.13	0	0	0	0	0	0	0	0
9/9/2024 21:33	40601	PIGR_T1	7	49	42	0.13	0.14	0.01	-0.13	-0.18	0	0	0	0	0	0
9/9/2024 21:33	40902	JESH_T1	41	236	195	0.15	0.19	0.04	-1.57	-1.51	0	0	0	0	0	0
9/9/2024 21:33	60701	BREC_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
9/9/2024 21:33	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:33	62606	ENGL_T1	0	0	0	0	0	0	-0.81	-0.83	1	1	0	900	900	0
9/9/2024 21:33	56501	ROCK_T2	3	2	-1	0.43	0.75	0.32	0.03	0.01	0	0	0	0	0	0
9/9/2024 21:33	47502	NECO_T1	17	15	-2	0.18	0.19	0.01	0.89	0.9	0	0	0	0	0	0
9/9/2024 21:33	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
9/9/2024 21:33	57401	SPAN_T1	212	338	126	0.28	0.33	0.05	-0.71	-0.45	1	0	-1	600	0	-600
9/9/2024 21:33	40501	CRES_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:33	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.44	0	0	0	0	0	0
9/9/2024 21:33	40903	JESH_T1	12	50	38	0.11	0.13	0.02	0	0	0	0	0	0	0	0
9/9/2024 21:33	55405	SHER_T1	19	11	-8	0.68	1.15	0.47	-0.17	-0.17	0	0	0	0	0	0
9/9/2024 21:33	43202	MVIL_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
9/9/2024 21:33	52403	GRPA_T2	44	96	52	0.43	0.81	0.38	0	0	0	0	0	0	0	0
9/9/2024 21:33	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:34	57401	SPAN_T1	212	338	126	0.28	0.33	0.05	-1.43	-0.9	2	0	-2	1200	0	-1200
9/9/2024 21:34	61801	EELI_T2	1	1	0	0.4	0.5	0.1	-0.98	-1.02	1	1	0	600	600	0
9/9/2024 21:34	42801	SELI_T1	0	0	0	0	0	0	-1.08	-1.08	1	1	0	1200	1200	0
9/9/2024 21:34	53802	MBRG_T2	0	0	0	0	0	0	0.4	0.52	0	0	0	0	0	0
9/9/2024 21:34	42802	SELI_T1	0	0	0	0	0	0	-1.05	-1.14	0	0	0	0	0	0
9/9/2024 21:34	42201	SHEN_T2	0	0	0	0	0	0	0.67	0.65	0	0	0	0	0	0
9/9/2024 21:34	59101	WALK_T2	0	0	0	0	0	0	1.82	2.01	2	2	0	1200	1200	0
9/9/2024 21:34	62605	ENGL_T1	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
9/9/2024 21:34	63804	HEMP_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
9/9/2024 21:34	40901	JESH_T1	3	10	7	0.1	0.1	0	0	0	0	0	0	0	0	0
9/9/2024 21:34	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	-0.66	-0.65	1	1	0	600	600	0
9/9/2024 21:34	62604	ENGL_T1	0	0	0	0	0	0	-0.92	-0.99	1	1	0	600	600	0
9/9/2024 21:34	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:34	42902	MIDD_T2	0	0	0	0	0	0	-0.35	-0.4	0	0	0	0	0	0
9/9/2024 21:34	40903	JESH_T1	12	50	38	0.11	0.13	0.02	0	0	0	0	0	0	0	0
9/9/2024 21:34	57403	SPAN_T1	78	155	77	0.23	0.27	0.04	0.06	0.06	0	0	0	0	0	0
9/9/2024 21:34	55405	SHER_T1	19	11	-8	0.68	1.15	0.47	-0.17	-0.17	0	0	0	0	0	0
9/9/2024 21:34	55101	WERT_T1	0	0	0	0	0	0	-2.82	-2.95	4	4	0	3000	3000	0
9/9/2024 21:34	67501	WEWI_T1	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
9/9/2024 21:34	17804	GILB_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
9/9/2024 21:34	42903	MIDD_T2	2	2	0	1.05	1.35	0.3	-0.21	-0.27	0	0	0	0	0	0
9/9/2024 21:34	63501	HEID_TBK1-2	49	49	0	0.46	0.41	-0.05	0.83	0.81	0	0	0	0	0	0
9/9/2024 21:34	54502	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:34	46004	BERW_T2	0	0	0	0	0	0	-0.28	-0.25	0	0	0	0	0	0
9/9/2024 21:34	67602	WARW_T2	1	1	0	0.6	0.6	0	1.49	1.45	1	1	0	300	300	0
9/9/2024 21:34	40902	JESH_T1	41	236	195	0.15	0.19	0.04	-0.79	-0.75	0	0	0	0	0	0
9/9/2024 21:34	14601	SWHI_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
9/9/2024 21:34	61803	EELI_T2	0	0	0	0	0	0	0.24	0.17	1	1	0	600	600	0
9/9/2024 21:34	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:34	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:34	51603	DUKE_T1	0	0	0	0	0	0	-0.28	-0.36	0	0	0	0	0	0
9/9/2024 21:34	63801	HEMP_T1	0	0	0	0	0	0	-0.84	-0.75	1	1	0	900	900	0
9/9/2024 21:34	55103	WERT_T1	1	1	0	7.5	0	-7.5	0	0	0	0	0	0	0	0
9/9/2024 21:34	56501	ROCK_T2	3	2	-1	0.43	0.75	0.32	0.03	0.01	0	0	0	0	0	0
9/9/2024 21:34	11301	EMMA_T1	0	0	0	0	0	0	-0.74	-0.79	0	0	0	0	0	0
9/9/2024 21:35	64204	KINZ_T1	2	6	4	0.85	0.33	-0.52	0	0	0	0	0	0	0	0
9/9/2024 21:35	45501	DERR_T2	2	1	-1	4.3	0.2	-4.1	0	0	0	0	0	0	0	0
9/9/2024 21:35	51004	NHAR_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
9/9/2024 21:35	28702	HAML_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
9/9/2024 21:35	52002	LING_T2	1	1	0	1.2	1.7	0.5	-0.04	-0.03	0	0	0	0	0	0
9/9/2024 21:35	20401	ASHF_T2	4	5	1	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
9/9/2024 21:35	47901	HRDG_T1	0	0	0	0	0	0	1.33	1.3	0	0	0	0	0	0
9/9/2024 21:35	52004	LING_T2	2	3	1	6.75	4.8	-1.95	0	0	0	0	0	0	0	0
9/9/2024 21:35	55101	WERT_T1	0	0	0	0	0	0	-1.41	-1.47	2	2	0	1500	1500	0
9/9/2024 21:35	28703	HAML_T2	2	3	1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
9/9/2024 21:35	45502	DERR_T2	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
9/9/2024 21:35	51002	NHAR_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/9/2024 21:35	52006	LING_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
9/9/2024 21:35	41902	REED_T1	0	0	0	0	0	0	1.08	1.05	0	0	0	0	0	0
9/9/2024 21:35	67605	WARW_T1	41	51	10	0.56	0.53	-0.03	-1.21	-1.21	0	0	0	0	0	0
9/9/2024 21:35	42802	SELI_T1	0	0	0	0	0	0	-1.05	-1.14	0	0	0	0	0	0
9/9/2024 21:35	64202	KINZ_T1	3	3	0	0.97	1	0.03	0	0	0	0	0	0	0	0
9/9/2024 21:35	67401	WAKE_T2	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
9/9/2024 21:35	55103	WERT_T1	1	1	0	7.5	0	-7.5	0	0	0	0	0	0	0	0
9/9/2024 21:35	55105	WERT_T1	0	0	0	0	0	0	-0.38	-0.4	1	1	0	900	900	0
9/9/2024 21:35	46801	HEPB_T2	3	3	0	0.67	0.7	0.03	0.61	0.62	0	0	0	0	0	0
9/9/2024 21:35	20403	ASHF_T2	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
9/9/2024 21:35	40201	BEGA_T2	3	3	0	0.47	0.2	-0.27	0	0	0	0	0	0	0	0
9/9/2024 21:35	28704	HAML_T2	4	4	0	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
9/9/2024 21:35	64203	KINZ_T1	0	0	0	0	0	0	0.53	0.62	0	0	0	0	0	0
9/9/2024 21:35	64201	KINZ_T1	5	6	1	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
9/9/2024 21:36	45602	WOOL_T1	1	1	0	0.1	0.2	0.1	0.58	0.58	0	0	0	0	0	0
9/9/2024 21:36	56501	ROCK_T2	3	2	-1	0.43	0.75	0.32	0.03	0.01	0	0	0	0	0	0
9/9/2024 21:36	57401	SPAN_T1	212	338	126	0.28	0.33	0.05	-0.71	-0.45	1	0	-1	600	0	-600
9/9/2024 21:36	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:36	45802	HEGI_T2	12	10	-2	0.32	0.28	-0.04	1.04	1.09	0	0	0	0	0	0
9/9/2024 21:36	12701	MAQU_T1	0	0	0	0	0	0	0.04	0.07	0	0	0	0	0	0
9/9/2024 21:36	42201	SHEN_T2	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
9/9/2024 21:36	13704	SCHN_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
9/9/2024 21:36	40501	CRES_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:36	58402	MORO_T1	0	0	0	0	0	0	0.36	0.34	1	1	0	900	900	0
9/9/2024 21:36	52004	LING_T2	2	3	1	6.75	4.8	-1.95	0	0	0	0	0	0	0	0
9/9/2024 21:36	65901	SAKR_T2	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0	0
9/9/2024 21:36	65902	SAKR_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
9/9/2024 21:36	67605	WARW_T1	41	51	10	0.56	0.53	-0.03	-1.21	-1.2	0	0	0	0	0	0
9/9/2024 21:36	63602	LETO_T1	0	0	0	0	0	0	-0.35	-0.39	0	0	0	0	0	0
9/9/2024 21:36	67602	WARW_T2	1	1	0	0.6	0.6	0	2.91	2.83	2	2	0	600	600	0
9/9/2024 21:36	40101	HUNT_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
9/9/2024 21:36	53802	MBRG_T2	0	0	0	0	0	0	0.4	0.52	0	0	0	0	0	0
9/9/2024 21:36	60701	BREC_T1	0	0	0	0	0	0	0.06	-0.01	0	0	0	0	0	0
9/9/2024 21:36	65503	MOJO_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:36	65502	MOJO_T2	0	115	115	0	0.11	0.11	-0.9	-0.9	0	0	0	0	0	0
9/9/2024 21:36	52006	LING_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
9/9/2024 21:36	40502	CRES_T2	24	51	27	0.29	0.25	-0.04	-0.4	-0.42	0	0	0	0	0	0
9/9/2024 21:36	52002	LING_T2	1	1	0	1.2	1.7	0.5	-0.04	-0.03	0	0	0	0	0	0
9/9/2024 21:36	44201	POIN_T1	81	90	9	0.22	0.21	-0.01	-1.57	-1.6	2	2	0	2100	2100	0
9/9/2024 21:36	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2024 21:36	57403	SPAN_T1	78	155	77	0.23	0.27	0.04	0.12	0.12	0	0	0	0	0	0
9/9/2024 21:37	42903	MIDD_T2	2	2	0	1.05	1.35	0.3	0	0	0	0	0	0	0	0
9/9/2024 21:37	63302	GREE_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
9/9/2024 21:37	40101	HUNT_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
9/9/2024 21:37	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/9/2024 21:37	46803	HEPB_T2	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
9/9/2024 21:37	50201	HARR_T3	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/9/2024 21:37	50107	HARR_T3	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:37	55101	WERT_T1	0	0	0	0	0	0	-1.47	-1.47	2	2	0	1500	1500	0
9/9/2024 21:37	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/9/2024 21:37	50202	HARR_T3	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/9/2024 21:37	50105	HARR_T3	6	6	0	5.77	5.78	0.01	0	0	0	0	0	0	0	0
9/9/2024 21:37	55103	WERT_T1	1	1	0	7.5	0	-7.5	0	0	0	0	0	0	0	0
9/9/2024 21:37	64802	MONE_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
9/9/2024 21:37	52403	GRPA_T2	44	96	52	0.43	0.81	0.38	0	0	0	0	0	0	0	0
9/9/2024 21:37	14202	EALL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/9/2024 21:37	58401	MORO_T1	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
9/9/2024 21:37	46801	HEPB_T2	3	3	0	0.67	0.7	0.03	0	0	0	0	0	0	0	0
9/9/2024 21:37	57403	SPAN_T1	78	155	77	0.23	0.27	0.04	0.06	0.04	0	0	0	0	0	0
9/9/2024 21:37	57401	SPAN_T1	212	338	126	0.28	0.33	0.05	-0.45	-0.46	0	0	0	0	0	0
9/9/2024 21:37	60701	BREC_T1	0	0	0	0	0	0	0.12	-0.02	0	0	0	0	0	0
9/9/2024 21:37	50103	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/9/2024 21:37	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/9/2024 21:37	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/9/2024 21:37	52401	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/9/2024 21:37	52402	GRPA_T2	4	4	0	0.75	1.03	0.28	-0.75	-0.76	0	0	0	0	0	0
9/9/2024 21:37	14204	EALL_T2	0	0	0	0	0	0	1	0.97	0	0	0	0	0	0
9/9/2024 21:37	42902	MIDD_T2	0	0	0	0	0	0	-0.4	-0.35	0	0	0	0	0	0
9/9/2024 21:37	66703	STRA_T1	5	14	9	0.26	0.3	0.04	-0.39	-0.43	0	0	0	0	0	0
9/9/2024 21:38	52002	LING_T2	1	1	0	1.2	1.7	0.5	0	0	0	0	0	0	0	0
9/9/2024 21:38	42802	SELI_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
9/9/2024 21:38	53502	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:38	52006	LING_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
9/9/2024 21:38	55002	NEWP_T1	4	6	2	0.5	0.63	0.13	0	0	0	0	0	0	0	0
9/9/2024 21:38	55001	NEWP_T1	18	47	29	0.16	0.26	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:38	62605	ENGL_T1	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
9/9/2024 21:38	52004	LING_T2	2	3	1	6.75	4.8	-1.95	0.25	0.17	0	0	0	0	0	0
9/9/2024 21:38	53501	EVIL_T2	2	2	0	0.6	1.1	0.5	-0.01	-0.01	1	1	0	600	600	0
9/9/2024 21:38	51603	DUKE_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
9/9/2024 21:39	50107	HARR_T3	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
9/9/2024 21:39	46301	ROHR_T1	1	1	0	4.9	5.3	0.4	0	0	0	0	0	0	0	0
9/9/2024 21:39	50201	HARR_T3	1	1	0	0.3	0.2	-0.1	0	0	1	1	0	1200	1200	0
9/9/2024 21:39	52006	LING_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
9/9/2024 21:39	50103	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/9/2024 21:39	50105	HARR_T3	6	6	0	5.77	5.78	0.01	0	0	0	0	0	0	0	0
9/9/2024 21:39	50202	HARR_T3	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/9/2024 21:39	52002	LING_T2	1	1	0	1.2	1.7	0.5	-0.03	-0.07	0	0	0	0	0	0
9/9/2024 21:39	52004	LING_T2	2	3	1	6.75	4.8	-1.95	0	0	0	0	0	0	0	0
9/9/2024 21:39	48901	FOSP_T2	0	0	0	0	0	0	-0.39	-0.4	1	1	0	600	600	0
9/9/2024 21:39	46302	ROHR_T1	4	4	0	0.9	1.23	0.33	0.13	0.12	0	0	0	0	0	0
9/9/2024 21:39	63501	HEID_TBK1-2	49	49	0	0.46	0.41	-0.05	0.4	0.38	0	0	0	0	0	0
9/9/2024 21:40	52403	GRPA_T2	44	96	52	0.43	0.81	0.38	-0.22	-0.23	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/9/2024 21:40	65004	NEFF_T2	0	0	0	0	0	0	-0.45	-0.48	0	0	0	0	0	0
9/9/2024 21:40	52006	LING_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
9/9/2024 21:40	57403	SPAN_T1	78	155	77	0.23	0.27	0.04	0.06	0.04	0	0	0	0	0	0
9/9/2024 21:40	65001	NEFF_T2	29	50	21	0.12	0.13	0.01	0	0	0	0	0	0	0	0
9/9/2024 21:40	55103	WERT_T1	1	1	0	7.5	0	-7.5	0	0	0	0	0	0	0	0
9/9/2024 21:40	59101	WALK_T2	0	0	0	0	0	0	1	1.39	1	0	-1	600	0	-600
9/9/2024 21:40	66505	SMAN_T2	3	3	0	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
9/9/2024 21:40	52402	GRPA_T2	4	4	0	0.75	1.03	0.28	0	0	0	0	0	0	0	0
9/9/2024 21:40	52401	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/9/2024 21:40	66504	SMAN_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
9/9/2024 21:40	58705	ROSE_T2	5	5	0	2.7	2.86	0.16	0	0	0	0	0	0	0	0
9/9/2024 21:40	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/9/2024 21:40	52002	LING_T2	1	1	0	1.2	1.7	0.5	-0.03	-0.07	0	0	0	0	0	0
9/9/2024 21:40	57401	SPAN_T1	212	338	126	0.28	0.33	0.05	0	0	0	0	0	0	0	0
9/9/2024 21:40	52004	LING_T2	2	3	1	6.75	4.8	-1.95	0	0	0	0	0	0	0	0
9/9/2024 21:40	58702	ROSE_T2	0	0	0	0	0	0	-0.22	-0.27	0	0	0	0	0	0
9/9/2024 21:40	55105	WERT_T1	0	0	0	0	0	0	-0.4	-0.39	1	1	0	900	900	0
9/9/2024 21:41	57403	SPAN_T1	78	155	77	0.23	0.27	0.04	0	0	0	0	0	0	0	0
9/9/2024 21:41	58401	MORO_T1	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
9/9/2024 21:41	55103	WERT_T1	1	1	0	7.5	0	-7.5	0	0	0	0	0	0	0	0
9/9/2024 21:41	55101	WERT_T1	0	0	0	0	0	0	-1.47	-1.47	2	2	0	1500	1500	0
9/9/2024 21:41	57401	SPAN_T1	212	338	126	0.28	0.33	0.05	-0.45	-0.46	0	0	0	0	0	0
9/9/2024 21:43	57004	WHHI_T2	0	0	0	0	0	0	-0.55	-0.59	0	0	0	0	0	0
9/9/2024 21:43	42802	SELI_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
9/9/2024 21:48	53802	MBRG_T2	0	0	0	0	0	0	0.52	0.33	0	0	0	0	0	0
9/9/2024 21:49	16103	BING_T2	0	0	0	0	0	0	-0.89	-0.95	2	2	0	1500	1500	0
9/9/2024 21:52	44801	EDAN_T2	237	338	101	0.5	0.63	0.13	0	0	0	0	0	0	0	0
9/9/2024 21:52	44802	EDAN_T2	0	1	1	0	0.1	0.1	-0.78	-0.77	0	0	0	0	0	0
9/9/2024 22:03	51306	WIND_T2	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
9/9/2024 22:09	60101	COCA_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
9/9/2024 22:38	10801	CHHI_T1	0	0	0	0	0	0	-0.78	-0.83	1	1	0	900	900	0
9/9/2024 22:55	45802	HEGI_T2	44	48	4	1.1	1.64	0.54	0.16	0.16	0	0	0	0	0	0
9/9/2024 23:19	60101	COCA_T1	0	0	0	0	0	0	0.15	0.09	0	0	0	0	0	0
9/9/2024 23:56	52404	GRPA_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
9/9/2024 23:56	52402	GRPA_T2	4	4	0	0.88	0.48	-0.4	0	0	0	0	0	0	0	0
9/9/2024 23:56	52401	GRPA_T2	9	1	-8	0.19	0.3	0.11	0	0	0	0	0	0	0	0
9/9/2024 23:56	52403	GRPA_T2	135	103	-32	1.39	1.33	-0.06	-0.35	-0.38	0	0	0	0	0	0
9/10/2024 0:20	52002	LING_T2	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
9/10/2024 0:20	52006	LING_T2	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
9/10/2024 0:20	52004	LING_T2	2	3	1	6.15	4.3	-1.85	0.06	0.04	0	0	0	0	0	0
9/10/2024 0:21	65502	MOJO_T2	0	0	0	0	0	0	-1.25	-1.24	0	0	0	0	0	0
9/10/2024 2:32	60701	BREC_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
9/10/2024 4:01	28403	HART_T2	0	0	0	0	0	0	-0.87	-0.86	1	1	0	900	900	0
9/10/2024 6:33	50103	HARR_T3	2	2	0	0.25	0.8	0.55	0	0	0	0	0	0	0	0
9/10/2024 6:33	50201	HARR_T3	0	1	1	0	0.4	0.4	0	0	1	1	0	1200	1200	0
9/10/2024 6:33	50107	HARR_T3	1	1	0	7.7	6.4	-1.3	0	0	0	0	0	0	0	0
9/10/2024 6:33	50105	HARR_T3	6	6	0	6.23	5.82	-0.41	0	0	0	0	0	0	0	0
9/10/2024 7:16	10102	ALLE_T2	59	10	-49	0.24	0.68	0.44	0	0	0	0	0	0	0	0
9/10/2024 7:16	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 7:16	10206	ALLE_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/10/2024 7:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 7:25	21501	CEAV_T2	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
9/10/2024 7:27	54505	ENOL_T2	1	1	0	0.6	0.9	0.3	-0.66	-0.66	1	1	0	600	600	0
9/10/2024 7:27	54501	ENOL_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
9/10/2024 7:27	63501	HEID_TBK1-2	28	49	21	0.42	0.34	-0.08	-0.01	0.03	1	1	0	900	900	0
9/10/2024 7:27	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/10/2024 7:30	10206	ALLE_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
9/10/2024 7:30	54501	ENOL_T2	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0	0
9/10/2024 7:30	10102	ALLE_T2	10	1	-9	0.68	6	5.32	0	0	0	0	0	0	0	0
9/10/2024 7:30	54502	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
9/10/2024 7:30	54505	ENOL_T2	1	1	0	0.9	0.9	0	-0.66	-0.66	1	1	0	600	600	0
9/10/2024 7:30	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 7:36	15202	SFAR_T1	0	0	0	0	0	0	-0.45	-0.42	1	1	0	1200	1200	0
9/10/2024 7:37	15204	SFAR_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
9/10/2024 7:37	15203	SFAR_T2	144	152	8	0.22	0.24	0.02	0	0	0	0	0	0	0	0
9/10/2024 7:37	65702	RVIL_T2	0	0	0	0	0	0	-1.07	-1.05	1	1	0	600	600	0
9/10/2024 7:38	55102	WERT_T2	0	0	0	0	0	0	-0.9	-0.86	2	2	0	1200	1200	0
9/10/2024 7:42	62101	ELAN_T1	1	1	0	3.6	0.9	-2.7	0	0	0	0	0	0	0	0
9/10/2024 7:42	62104	ELAN_T1	0	0	0	0	0	0	0.47	0.55	1	1	0	1200	1200	0
9/10/2024 7:45	62105	ELAN_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
9/10/2024 7:45	62101	ELAN_T1	1	1	0	2.8	0	-2.8	0	0	0	0	0	0	0	0
9/10/2024 7:49	13701	SCHN_T2	0	0	0	0	0	0	-0.15	-0.12	1	1	0	600	600	0
9/10/2024 7:50	47401	PENS_T1	0	0	0	0	0	0	-0.84	-0.89	0	0	0	0	0	0
9/10/2024 7:50	47403	PENS_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
9/10/2024 7:50	47402	PENS_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
9/10/2024 7:51	43101	SMIL_T2	0	6	6	0	0.22	0.22	0	0	0	0	0	0	0	0
9/10/2024 7:51	43105	SMIL_T2	0	12	12	0	0.22	0.22	0	0	0	0	0	0	0	0
9/10/2024 7:51	43104	SMIL_T2	0	1	1	0	0.2	0.2	-0.81	-0.8	1	1	0	300	300	0
9/10/2024 7:51	43103	SMIL_T2	5	22	17	0.42	0.8	0.38	0	0	0	0	0	0	0	0
9/10/2024 7:51	43102	SMIL_T2	7	9	2	0.56	0.72	0.16	0	0	0	0	0	0	0	0
9/10/2024 7:52	43102	SMIL_T2	7	9	2	0.56	0.72	0.16	0	0	0	0	0	0	0	0
9/10/2024 7:52	65601	QVIL_T2	0	0	0	0	0	0	-1.19	-1.14	1	1	0	900	900	0
9/10/2024 7:52	43103	SMIL_T2	5	22	17	0.42	0.8	0.38	0	0	0	0	0	0	0	0
9/10/2024 7:52	43105	SMIL_T2	0	12	12	0	0.22	0.22	0	0	0	0	0	0	0	0
9/10/2024 7:52	43104	SMIL_T2	0	1	1	0	0.2	0.2	-0.81	-0.8	1	1	0	300	300	0
9/10/2024 7:52	43101	SMIL_T2	0	6	6	0	0.22	0.22	0	0	0	0	0	0	0	0
9/10/2024 7:54	55102	WERT_T2	0	0	0	0	0	0	-0.86	-0.25	2	1	-1	1200	600	-600
9/10/2024 7:56	54501	ENOL_T2	4	3	-1	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
9/10/2024 7:56	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/10/2024 7:56	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
9/10/2024 7:56	54503	ENOL_T2	0	0	0	0	0	0	-1.38	-0.8	1	1	0	600	600	0
9/10/2024 7:56	43402	BENT_T1	0	0	0	0	0	0	-0.67	-0.63	1	1	0	600	600	0
9/10/2024 7:57	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
9/10/2024 7:57	43402	BENT_T1	0	0	0	0	0	0	-0.67	-0.63	1	1	0	600	600	0
9/10/2024 7:57	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/10/2024 7:57	62607	ENGL_T1	0	1	1	0	0.1	0.1	-0.79	-0.79	0	0	0	0	0	0
9/10/2024 7:57	45901	AUBU_T1	0	0	0	0	0	0	1.4	1.41	0	0	0	0	0	0
9/10/2024 7:57	54503	ENOL_T2	0	0	0	0	0	0	-1.38	-0.8	1	1	0	600	600	0
9/10/2024 7:57	54501	ENOL_T2	4	3	-1	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
9/10/2024 7:58	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/10/2024 7:58	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
9/10/2024 7:58	54503	ENOL_T2	0	0	0	0	0	0	-1.38	-0.8	1	1	0	600	600	0
9/10/2024 7:58	54501	ENOL_T2	4	3	-1	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
9/10/2024 7:59	62601	ENGL_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
9/10/2024 7:59	62607	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 7:59	53601	DALM_T2	1	1	0	1.2	0.9	-0.3	0.26	0.25	0	0	0	0	0	0
9/10/2024 8:00	12807	MICK_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
9/10/2024 8:00	12802	MICK_T1	0	0	0	0	0	0	-1.15	-1.1	0	0	0	0	0	0
9/10/2024 8:01	54502	ENOL_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
9/10/2024 8:01	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 8:01	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	-0.65	-0.66	1	1	0	600	600	0
9/10/2024 8:01	54501	ENOL_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
9/10/2024 8:07	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 8:07	67503	WEWI_T2	1	1	0	9.4	9.2	-0.2	-0.26	-0.24	0	0	0	0	0	0
9/10/2024 8:07	57006	WHHI_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
9/10/2024 8:07	67502	WEWI_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/10/2024 8:08	45901	AUBU_T1	0	0	0	0	0	0	1.41	1.41	0	0	0	0	0	0
9/10/2024 8:09	57006	WHHI_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
9/10/2024 8:09	57002	WHHI_T2	0	0	0	0	0	0	-1.59	-1.51	1	1	0	1200	1200	0
9/10/2024 8:09	67503	WEWI_T2	1	1	0	9.4	9.2	-0.2	-0.26	-0.24	0	0	0	0	0	0
9/10/2024 8:09	67502	WEWI_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/10/2024 8:10	67503	WEWI_T2	1	1	0	9.4	9.2	-0.2	-0.26	-0.24	0	0	0	0	0	0
9/10/2024 8:10	67502	WEWI_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/10/2024 8:10	57002	WHHI_T2	0	0	0	0	0	0	-1.59	-1.51	1	1	0	1200	1200	0
9/10/2024 8:10	57006	WHHI_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
9/10/2024 8:11	51602	DUKE_T2	0	0	0	0	0	0	-1.61	-1.57	1	1	0	1200	1200	0
9/10/2024 8:12	11202	ELHE_T2	0	0	0	0	0	0	0.47	0.52	0	0	0	0	0	0
9/10/2024 8:12	67502	WEWI_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/10/2024 8:12	51602	DUKE_T2	0	0	0	0	0	0	-1.61	-1.57	1	1	0	1200	1200	0
9/10/2024 8:12	40101	HUNT_T2	0	1	1	0	0	0	-0.24	-0.22	0	0	0	0	0	0
9/10/2024 8:12	67503	WEWI_T2	1	1	0	9.4	9.2	-0.2	-0.26	-0.24	0	0	0	0	0	0
9/10/2024 8:13	57505	LAWN_T3	7	43	36	0.23	0.26	0.03	0.45	0.51	0	0	0	0	0	0
9/10/2024 8:14	57502	LAWN_T3	0	0	0	0	0	0	-1.46	-1.33	0	0	0	0	0	0
9/10/2024 8:14	51602	DUKE_T2	0	0	0	0	0	0	-1.61	-1.57	1	1	0	1200	1200	0
9/10/2024 8:14	57505	LAWN_T3	7	43	36	0.23	0.26	0.03	0	0	0	0	0	0	0	0
9/10/2024 8:15	51602	DUKE_T2	0	0	0	0	0	0	-1.61	-1.57	1	1	0	1200	1200	0
9/10/2024 8:15	57002	WHHI_T2	0	0	0	0	0	0	-1.59	-1.51	1	1	0	1200	1200	0
9/10/2024 8:15	57006	WHHI_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
9/10/2024 8:15	11201	ELHE_T2	0	0	0	0	0	0	-0.57	-0.37	2	2	0	2400	2400	0
9/10/2024 8:19	57502	LAWN_T3	0	0	0	0	0	0	-0.73	-0.67	0	0	0	0	0	0
9/10/2024 8:19	57505	LAWN_T3	25	45	20	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/10/2024 8:22	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 8:23	15203	SFAR_T2	35	147	112	0.12	0.22	0.1	-2.65	-2.58	0	0	0	0	0	0
9/10/2024 8:23	57203	ROSS_T1	0	0	0	0	0	0	-0.79	-0.71	0	0	0	0	0	0
9/10/2024 8:24	57103	SPHI_T2	0	0	0	0	0	0	-0.36	-0.39	1	1	0	600	600	0
9/10/2024 8:24	57101	SPHI_T2	6	8	2	1.45	1.61	0.16	0	0	0	0	0	0	0	0
9/10/2024 8:24	57106	SPHI_T2	3	3	0	1.83	0.93	-0.9	0	0	0	0	0	0	0	0
9/10/2024 8:24	57104	SPHI_T2	2	3	1	6.3	0.5	-5.8	0	0	0	0	0	0	0	0
9/10/2024 8:24	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 8:27	10603	BLGL_T1	3	2	-1	0.67	0.1	-0.57	0.3	0.3	0	0	0	0	0	0
9/10/2024 8:28	10707	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 8:28	50105	HARR_T3	6	6	0	5.83	5.48	-0.35	0	0	0	0	0	0	0	0
9/10/2024 8:28	10705	CATA_T2	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
9/10/2024 8:28	50103	HARR_T3	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/10/2024 8:28	50201	HARR_T3	1	1	0	0.5	0.7	0.2	0	0	1	0	-1	1200	0	-1200
9/10/2024 8:28	50107	HARR_T3	1	1	0	6.9	6.5	-0.4	0	0	0	0	0	0	0	0
9/10/2024 8:29	10707	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 8:29	10705	CATA_T2	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
9/10/2024 8:30	61503	EPET_T1	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
9/10/2024 8:31	64503	LAVI_T1	0	0	0	0	0	0	-0.89	-1.16	1	1	0	1200	1200	0
9/10/2024 8:33	65702	RVIL_T2	0	0	0	0	0	0	-1.03	-1	1	1	0	600	600	0
9/10/2024 8:35	65702	RVIL_T2	0	0	0	0	0	0	-2.06	-2	2	2	0	1200	1200	0
9/10/2024 8:36	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/10/2024 8:36	64801	MONE_T2	1	1	0	0.8	0.4	-0.4	0.19	0.2	0	0	0	0	0	0
9/10/2024 8:36	64802	MONE_T2	39	0	-39	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/10/2024 8:37	59102	WALK_T2	0	1	1	0	9.9	9.9	0	0	0	0	0	0	0	0
9/10/2024 8:37	59101	WALK_T2	1	1	0	3.9	2.8	-1.1	2.22	2.35	0	0	0	0	0	0
9/10/2024 8:39	14402	SSLA_T1	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/10/2024 8:39	14404	SSLA_T1	2	5	3	0.1	0.26	0.16	-0.14	-0.05	0	0	0	0	0	0
9/10/2024 8:39	14401	SSLA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 8:41	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 8:41	67605	WARW_T1	14	15	1	0.61	0.57	-0.04	0	0	0	0	0	0	0	0
9/10/2024 8:41	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 8:42	14603	SWHI_T1	0	0	0	0	0	0	-0.29	-0.24	0	0	0	0	0	0
9/10/2024 8:42	45501	DERR_T2	0	1	1	0	0.4	0.4	0.6	0.56	2	2	0	1800	1800	0
9/10/2024 8:43	57006	WHHI_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/10/2024 8:43	44801	EDAN_T2	149	147	-2	0.45	0.45	0	-3.29	-3.21	0	0	0	0	0	0
9/10/2024 8:43	57004	WHHI_T2	0	0	0	0	0	0	-0.52	-0.48	0	0	0	0	0	0
9/10/2024 8:43	45501	DERR_T2	0	1	1	0	0.4	0.4	0.6	0.56	2	2	0	1800	1800	0
9/10/2024 8:45	20802	LOPO_T1	0	0	0	0	0	0	-0.59	-0.59	1	1	0	600	600	0
9/10/2024 8:45	14603	SWHI_T1	0	0	0	0	0	0	-0.29	-0.24	0	0	0	0	0	0
9/10/2024 8:46	15202	SFAR_T1	0	0	0	0	0	0	-0.28	-0.26	1	1	0	1200	1200	0
9/10/2024 8:47	40101	HUNT_T2	0	1	1	0	0	0	-0.19	-0.22	0	0	0	0	0	0
9/10/2024 8:48	20802	LOPO_T1	0	0	0	0	0	0	-0.59	-0.59	1	1	0	600	600	0
9/10/2024 8:49	12802	MICK_T1	0	0	0	0	0	0	-1.02	-0.97	0	0	0	0	0	0
9/10/2024 8:49	12807	MICK_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
9/10/2024 8:50	20601	GRWO_T2	0	9	9	0	0.15	0.15	1.31	1.35	0	0	0	0	0	0
9/10/2024 8:50	12802	MICK_T1	0	0	0	0	0	0	-1.02	-0.97	0	0	0	0	0	0
9/10/2024 8:50	12807	MICK_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
9/10/2024 8:50	44703	MUNC_T2	2	2	0	0.5	0.25	-0.25	0.81	0.85	0	0	0	0	0	0
9/10/2024 8:51	61303	EARL_T1	0	0	0	0	0	0	0.48	0.42	0	0	0	0	0	0
9/10/2024 8:51	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
9/10/2024 8:51	15703	TANN_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
9/10/2024 8:51	58202	NEWV_T1	0	0	0	0	0	0	0.27	0.33	0	0	0	0	0	0
9/10/2024 8:52	56504	ROCK_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
9/10/2024 8:52	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 8:52	56501	ROCK_T2	6	7	1	0.45	0.39	-0.06	0	0	0	0	0	0	0	0
9/10/2024 8:53	56501	ROCK_T2	6	7	1	0.45	0.39	-0.06	-0.13	-0.09	0	0	0	0	0	0
9/10/2024 8:53	10603	BLGL_T1	2	0	-2	0.4	0	-0.4	0.32	0.34	0	0	0	0	0	0
9/10/2024 8:53	54602	SUMM_T2	12	5	-7	0.16	0.12	-0.04	0	0	0	0	0	0	0	0
9/10/2024 8:53	45902	AUBU_T1	1	1	0	0.2	0.2	0	-0.48	-0.46	1	1	0	600	600	0
9/10/2024 8:53	54601	SUMM_T2	13	13	0	0.73	0.68	-0.05	-1.85	-1.81	2	2	0	2100	2100	0
9/10/2024 8:53	66504	SMAN_T2	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
9/10/2024 8:54	11103	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 8:54	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.36	0	0	0	0	0	0
9/10/2024 8:54	56501	ROCK_T2	6	7	1	0.45	0.39	-0.06	-0.13	-0.09	0	0	0	0	0	0
9/10/2024 8:54	11102	EGYP_T1	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
9/10/2024 8:54	43801	SWIL_T1	1	1	0	5.4	5.4	0	0	0	1	1	0	600	600	0
9/10/2024 8:54	15703	TANN_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
9/10/2024 8:55	13201	PALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 8:56	50202	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 8:56	50103	HARR_T3	2	2	0	0.5	1	0.5	0	0	0	0	0	0	0	0
9/10/2024 8:56	51301	WIND_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/10/2024 8:56	51305	WIND_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
9/10/2024 8:56	50105	HARR_T3	6	6	0	5.82	5.77	-0.05	0	0	0	0	0	0	0	0
9/10/2024 8:56	50107	HARR_T3	1	1	0	6.9	6.6	-0.3	0	0	0	0	0	0	0	0
9/10/2024 8:57	53501	EVIL_T2	2	2	0	0.4	0.35	-0.05	-0.02	-0.02	3	3	0	1800	1800	0
9/10/2024 8:59	53501	EVIL_T2	2	2	0	0.4	0.35	-0.05	-0.01	-0.01	1	1	0	600	600	0
9/10/2024 8:59	23202	HIRU_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
9/10/2024 8:59	11507	FREE_T2	0	0	0	0	0	0	0.59	0.8	0	0	0	0	0	0
9/10/2024 9:00	50107	HARR_T3	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
9/10/2024 9:00	53902	HALI_T2	1	1	0	5.6	4.8	-0.8	0	0	0	0	0	0	0	0
9/10/2024 9:00	50103	HARR_T3	2	2	0	1	0.95	-0.05	0	0	0	0	0	0	0	0
9/10/2024 9:00	40601	PIGR_T1	2	14	12	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
9/10/2024 9:00	50202	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 9:00	40602	PIGR_T1	1	1	0	1.3	1.3	0	-0.59	-0.56	1	1	0	600	600	0
9/10/2024 9:00	53903	HALI_T2	2	2	0	1.4	0.95	-0.45	0	0	0	0	0	0	0	0
9/10/2024 9:00	53901	HALI_T2	5	1	-4	0.44	1.3	0.86	-1.38	-0.23	0	0	0	0	0	0
9/10/2024 9:00	50105	HARR_T3	6	6	0	5.87	5.78	-0.09	0	0	0	0	0	0	0	0
9/10/2024 9:01	54505	ENOL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/10/2024 9:01	53501	EVIL_T2	2	2	0	0.3	0.35	0.05	-0.01	-0.01	1	1	0	600	600	0
9/10/2024 9:01	54502	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/10/2024 9:01	63501	HEID_TBK1-2	28	48	20	0.35	0.47	0.12	0.14	0.22	1	1	0	900	900	0
9/10/2024 9:01	54506	ENOL_T2	0	0	0	0	0	0	0.01	-0.01	1	1	0	600	600	0
9/10/2024 9:02	43105	SMIL_T2	12	11	-1	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
9/10/2024 9:02	43103	SMIL_T2	22	22	0	0.7	0.66	-0.04	0	0	0	0	0	0	0	0
9/10/2024 9:02	43102	SMIL_T2	6	6	0	0.9	0.78	-0.12	0	0	0	0	0	0	0	0
9/10/2024 9:02	43104	SMIL_T2	1	2	1	0.1	0.15	0.05	-0.78	-0.76	1	1	0	300	300	0
9/10/2024 9:02	43101	SMIL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/10/2024 9:03	43103	SMIL_T2	22	22	0	0.7	0.66	-0.04	0	0	0	0	0	0	0	0
9/10/2024 9:03	65702	RVIL_T2	0	0	0	0	0	0	-1.02	-0.96	1	1	0	600	600	0
9/10/2024 9:03	43105	SMIL_T2	12	11	-1	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
9/10/2024 9:03	43101	SMIL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/10/2024 9:03	64704	LITI_T1	0	0	0	0	0	0	0.11	0.04	2	2	0	1200	1200	0
9/10/2024 9:03	43102	SMIL_T2	6	6	0	0.9	0.78	-0.12	0	0	0	0	0	0	0	0
9/10/2024 9:03	43104	SMIL_T2	1	2	1	0.1	0.15	0.05	-0.78	-0.76	1	1	0	300	300	0
9/10/2024 9:04	67605	WARW_T1	15	17	2	0.56	0.49	-0.07	0	0	0	0	0	0	0	0
9/10/2024 9:04	65401	MARI_T1	0	0	0	0	0	0	-0.57	-0.51	0	0	0	0	0	0
9/10/2024 9:04	67604	WARW_T1	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
9/10/2024 9:05	55001	NEWP_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
9/10/2024 9:05	55002	NEWP_T1	7	20	13	0.74	0.5	-0.24	0	0	0	0	0	0	0	0
9/10/2024 9:08	65702	RVIL_T2	0	0	0	0	0	0	-0.96	-0.91	1	1	0	600	600	0
9/10/2024 9:09	20401	ASHF_T2	3	3	0	0.37	0.4	0.03	0	0	0	0	0	0	0	0
9/10/2024 9:09	20403	ASHF_T2	0	1	1	0	0.6	0.6	2.67	2.37	0	0	0	0	0	0
9/10/2024 9:10	60101	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 9:11	67503	WEWI_T2	1	1	0	9	8.8	-0.2	-0.11	-0.23	0	0	0	0	0	0
9/10/2024 9:11	67502	WEWI_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/10/2024 9:11	60101	COCA_T1	0	0	0	0	0	0	0.73	0.58	0	0	0	0	0	0
9/10/2024 9:14	22904	HARW_T1	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
9/10/2024 9:17	46102	MACI_T1	0	0	0	0	0	0	0.71	0.77	0	0	0	0	0	0
9/10/2024 9:19	57501	LAWN_T3	0	0	0	0	0	0	-0.78	-0.74	0	0	0	0	0	0
9/10/2024 9:19	65004	NEFF_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
9/10/2024 9:19	57505	LAWN_T3	24	2	-22	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
9/10/2024 9:21	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.65	0	0	0	0	0	0
9/10/2024 9:22	55408	SHER_T2	1	1	0	3.4	3	-0.4	-0.94	-0.94	1	1	0	1200	1200	0
9/10/2024 9:22	42201	SHEN_T2	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
9/10/2024 9:22	67502	WEWI_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/10/2024 9:22	67503	WEWI_T2	1	1	0	8.8	8.7	-0.1	-0.23	-0.23	0	0	0	0	0	0
9/10/2024 9:24	67605	WARW_T1	16	14	-2	0.51	0.5	-0.01	-1.05	-1.06	0	0	0	0	0	0
9/10/2024 9:25	66504	SMAN_T2	0	0	0	0	0	0	-0.27	-0.33	0	0	0	0	0	0
9/10/2024 9:25	67605	WARW_T1	16	14	-2	0.51	0.5	-0.01	-1.05	-1.06	0	0	0	0	0	0
9/10/2024 9:26	59101	WALK_T2	1	3	2	3.6	0.57	-3.03	2.38	1.92	0	0	0	0	0	0
9/10/2024 9:26	67702	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 9:26	55002	NEWP_T1	20	10	-10	0.46	0.73	0.27	0	0	0	0	0	0	0	0
9/10/2024 9:26	67703	WERN_T2	0	0	0	0	0	0	-0.11	-0.09	1	1	0	900	900	0
9/10/2024 9:26	55001	NEWP_T1	4	2	-2	0.18	0.3	0.12	0	0	0	0	0	0	0	0
9/10/2024 9:29	40101	HUNT_T2	1	1	0	0.1	0.2	0.1	-0.17	-0.17	0	0	0	0	0	0
9/10/2024 9:29	20601	GRWO_T2	5	25	20	0.22	0.6	0.38	1.33	1.32	0	0	0	0	0	0
9/10/2024 9:30	61502	EPET_T1	0	0	0	0	0	0	-0.69	-0.78	0	0	0	0	0	0
9/10/2024 9:31	53502	EVIL_T2	0	0	0	0	0	0	0.29	0.25	2	2	0	1200	1200	0
9/10/2024 9:31	20601	GRWO_T2	2	26	24	0.6	0.32	-0.28	1.33	1.32	0	0	0	0	0	0
9/10/2024 9:31	53501	EVIL_T2	2	2	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
9/10/2024 9:34	55508	HERS_T2	2	2	0	1.15	0.9	-0.25	-2.5	-2.49	1	1	0	1200	1200	0
9/10/2024 9:39	20401	ASHF_T2	3	2	-1	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
9/10/2024 9:39	20403	ASHF_T2	1	2	1	0.6	0.35	-0.25	1.29	1.27	0	0	0	0	0	0
9/10/2024 9:41	41602	CLEV_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
9/10/2024 9:42	63306	GREE_T1	1	0	-1	0.3	0	-0.3	-2.11	-2.09	1	1	0	900	900	0
9/10/2024 9:44	67703	WERN_T2	0	0	0	0	0	0	-0.09	-0.11	1	1	0	900	900	0
9/10/2024 9:44	67702	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 9:45	63306	GREE_T1	0	1	1	0	0.1	0.1	-4.22	-4.18	2	2	0	1800	1800	0
9/10/2024 9:46	52004	LING_T2	4	5	1	3.23	2.72	-0.51	0	0	0	0	0	0	0	0
9/10/2024 9:46	52002	LING_T2	1	1	0	0.3	0.2	-0.1	-0.16	-0.15	0	0	0	0	0	0
9/10/2024 9:47	53501	EVIL_T2	2	3	1	0.35	0.7	0.35	-0.01	-0.01	1	2	1	600	800	200
9/10/2024 9:48	53501	EVIL_T2	2	3	1	0.35	0.7	0.35	-0.03	-0.03	6	12	6	3600	4800	1200
9/10/2024 9:50	52004	LING_T2	4	5	1	3.23	2.72	-0.51	0	0	0	0	0	0	0	0
9/10/2024 9:50	52002	LING_T2	1	1	0	0.3	0.2	-0.1	-0.16	-0.15	0	0	0	0	0	0
9/10/2024 9:51	57401	SPAN_T1	4	144	140	0.83	0.29	-0.54	-1.82	-1.63	2	2	0	1200	1200	0
9/10/2024 9:51	57403	SPAN_T1	11	151	140	0.18	0.33	0.15	0	0	0	0	0	0	0	0
9/10/2024 9:52	17002	RIRO_T2	3	3	0	0.6	0.83	0.23	0.65	0.65	0	0	0	0	0	0
9/10/2024 9:52	64602	LEOL_T1	0	0	0	0	0	0	0.37	0.29	0	0	0	0	0	0
9/10/2024 9:53	57403	SPAN_T1	11	151	140	0.18	0.33	0.15	0	0	0	0	0	0	0	0
9/10/2024 9:53	57401	SPAN_T1	4	144	140	0.83	0.29	-0.54	-0.82	-0.91	1	1	0	600	600	0
9/10/2024 9:53	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 9:53	66505	SMAN_T2	0	0	0	0	0	0	0.86	0.82	1	2	1	900	1100	200
9/10/2024 9:54	57403	SPAN_T1	11	151	140	0.18	0.33	0.15	0	0	0	0	0	0	0	0
9/10/2024 9:54	57401	SPAN_T1	4	144	140	0.83	0.29	-0.54	-0.82	-0.91	1	1	0	600	600	0
9/10/2024 9:55	45902	AUBU_T1	1	1	0	0.1	0.4	0.3	-0.5	-0.52	1	1	0	600	600	0
9/10/2024 9:56	40201	BEGA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/10/2024 9:56	48302	ORWI_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
9/10/2024 9:57	46001	BERW_T1	0	0	0	0	0	0	0.9	0.97	0	0	0	0	0	0
9/10/2024 10:00	64602	LEOL_T1	0	0	0	0	0	0	0.37	0.29	0	0	0	0	0	0
9/10/2024 10:00	66203	SISP_T2	0	0	0	0	0	0	-0.57	-0.57	2	2	0	1800	1800	0
9/10/2024 10:00	15204	SFAR_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
9/10/2024 10:00	45501	DERR_T2	1	1	0	0.1	0.1	0	0.66	0.73	2	2	0	1800	1800	0
9/10/2024 10:00	65004	NEFF_T2	0	0	0	0	0	0	-0.5	-0.48	0	0	0	0	0	0
9/10/2024 10:00	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 10:00	53902	HALI_T2	2	4	2	2.65	2.07	-0.58	0	0	0	0	0	0	0	0
9/10/2024 10:00	52403	GRPA_T2	89	102	13	0.91	1.02	0.11	-0.03	-0.01	0	0	0	0	0	0
9/10/2024 10:00	64802	MONE_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/10/2024 10:00	40901	JESH_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
9/10/2024 10:00	42201	SHEN_T2	0	0	0	0	0	0	0.67	0.71	0	0	0	0	0	0
9/10/2024 10:00	13701	SCHN_T2	0	1	1	0	0.2	0.2	0.01	-0.01	1	1	0	600	600	0
9/10/2024 10:00	64801	MONE_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
9/10/2024 10:00	59003	MIFF_T1	1	1	0	0.1	0.1	0	-0.9	-1.15	0	0	0	0	0	0
9/10/2024 10:00	15203	SFAR_T2	2	106	104	0.1	0.18	0.08	0	0	0	0	0	0	0	0
9/10/2024 10:00	53903	HALI_T2	3	4	1	0.83	0.8	-0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/10/2024 10:00	50105	HARR_T3	6	6	0	6.12	6.07	-0.05	0	0	0	0	0	0	0	0
9/10/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 10:00	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 10:00	59001	MIFF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	0.02	0.06	0	0	0	0	0	0
9/10/2024 10:00	55508	HERS_T2	2	2	0	0.9	1	0.1	-2.46	-2.45	1	1	0	1200	1200	0
9/10/2024 10:00	50107	HARR_T3	1	1	0	7.3	7.3	0	0	0	0	0	0	0	0	0
9/10/2024 10:00	67503	WEWI_T2	1	1	0	8.6	8.5	-0.1	-0.12	-0.2	0	0	0	0	0	0
9/10/2024 10:00	67502	WEWI_T2	1	2	1	1	0.55	-0.45	0	0	0	0	0	0	0	0
9/10/2024 10:00	50106	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 10:00	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/10/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.92	-0.93	0	0	0	0	0	0
9/10/2024 10:00	13704	SCHN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 10:00	50103	HARR_T3	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
9/10/2024 10:00	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	0.08	0.11	1	1	0	600	600	0
9/10/2024 10:00	52402	GRPA_T2	2	4	2	0.15	0.4	0.25	0	0	0	0	0	0	0	0
9/10/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
9/10/2024 10:00	57003	WHHI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/10/2024 10:00	53901	HALI_T2	2	2	0	0.75	0.85	0.1	19.23	-1.26	0	0	0	0	0	0
9/10/2024 10:00	57002	WHHI_T2	0	0	0	0	0	0	-1.31	-1.35	1	1	0	1200	1200	0
9/10/2024 10:00	65005	NEFF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/10/2024 10:02	53501	EVIL_T2	2	4	2	0.8	0.67	-0.13	-0.01	-0.01	2	2	0	800	800	0
9/10/2024 10:06	59402	RFLD_T2	0	0	0	0	0	0	-0.15	-0.13	1	1	0	450	450	0
9/10/2024 10:07	14402	SSLA_T1	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
9/10/2024 10:07	53501	EVIL_T2	2	4	2	0.8	0.67	-0.13	-0.01	-0.01	2	3	1	800	1700	900
9/10/2024 10:07	14404	SSLA_T1	0	5	5	0	0.52	0.52	0.03	0.09	0	0	0	0	0	0
9/10/2024 10:07	42302	MOWR_T2	0	0	0	0	0	0	1.19	1.31	0	0	0	0	0	0
9/10/2024 10:07	14403	SSLA_T1	1	3	2	0.1	0.63	0.53	0	0	0	0	0	0	0	0
9/10/2024 10:08	14403	SSLA_T1	1	3	2	0.1	0.63	0.53	0.73	0.76	0	0	0	0	0	0
9/10/2024 10:08	42802	SELI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 10:08	42801	SELI_T1	0	0	0	0	0	0	-0.99	-0.98	1	1	0	1200	1200	0
9/10/2024 10:08	42201	SHEN_T2	0	0	0	0	0	0	0.71	0.1	0	1	1	0	600	600
9/10/2024 10:08	14402	SSLA_T1	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
9/10/2024 10:08	66502	SMAN_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
9/10/2024 10:08	14404	SSLA_T1	0	5	5	0	0.52	0.52	0.03	0.09	0	0	0	0	0	0
9/10/2024 10:08	66504	SMAN_T2	0	1	1	0	0.5	0.5	-0.51	-0.34	0	0	0	0	0	0
9/10/2024 10:08	66501	SMAN_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
9/10/2024 10:08	14401	SSLA_T1	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
9/10/2024 10:08	66505	SMAN_T2	0	0	0	0	0	0	0.82	0.68	2	2	0	1100	1100	0
9/10/2024 10:08	59402	RFLD_T2	0	0	0	0	0	0	-0.13	-0.73	1	1	0	450	450	0
9/10/2024 10:08	55102	WERT_T2	0	0	0	0	0	0	-1.34	-0.1	2	2	0	1200	1200	0
9/10/2024 10:08	59202	THOM_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/10/2024 10:09	14404	SSLA_T1	0	5	5	0	0.52	0.52	0	0	0	0	0	0	0	0
9/10/2024 10:09	67502	WEWI_T2	1	2	1	1	0.55	-0.45	-0.13	-0.06	0	0	0	0	0	0
9/10/2024 10:09	55408	SHER_T2	1	1	0	2.8	3	0.2	-0.94	-0.94	1	1	0	1200	1200	0
9/10/2024 10:09	53601	DALM_T2	1	1	0	0.2	1.3	1.1	-0.49	-0.48	1	1	0	900	900	0
9/10/2024 10:09	59202	THOM_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/10/2024 10:09	45902	AUBU_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
9/10/2024 10:09	14403	SSLA_T1	1	3	2	0.1	0.63	0.53	1.46	1.52	0	0	0	0	0	0
9/10/2024 10:09	45901	AUBU_T1	0	0	0	0	0	0	1.46	1.57	0	0	0	0	0	0
9/10/2024 10:09	67503	WEWI_T2	1	1	0	8.6	8.5	-0.1	-0.2	-0.15	0	0	0	0	0	0
9/10/2024 10:09	14802	TREI_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
9/10/2024 10:09	14402	SSLA_T1	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
9/10/2024 10:09	14801	TREI_T2	2	5	3	0.7	0.46	-0.24	0	0	0	0	0	0	0	0
9/10/2024 10:10	53902	HALI_T2	2	4	2	2.65	2.07	-0.58	0	0	0	0	0	0	0	0
9/10/2024 10:10	53903	HALI_T2	3	4	1	0.83	0.8	-0.03	0	0	0	0	0	0	0	0
9/10/2024 10:10	53901	HALI_T2	2	2	0	0.75	0.85	0.1	-1.26	-1.28	0	0	0	0	0	0
9/10/2024 10:10	20401	ASHF_T2	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
9/10/2024 10:10	20403	ASHF_T2	1	5	4	0.2	0.32	0.12	1.36	1.31	0	0	0	0	0	0
9/10/2024 10:10	14801	TREI_T2	2	5	3	0.7	0.46	-0.24	0.48	0.45	0	0	0	0	0	0
9/10/2024 10:11	66501	SMAN_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
9/10/2024 10:11	66502	SMAN_T2	1	1	0	0.2	0.9	0.7	0.33	0.4	0	0	0	0	0	0
9/10/2024 10:11	58705	ROSE_T2	5	5	0	1.74	2.2	0.46	0	0	0	0	0	0	0	0
9/10/2024 10:11	45902	AUBU_T1	0	1	1	0	0.7	0.7	-0.52	-0.52	1	1	0	600	600	0
9/10/2024 10:11	66504	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/10/2024 10:11	58702	ROSE_T2	0	0	0	0	0	0	-1.39	-0.14	0	0	0	0	0	0
9/10/2024 10:11	55102	WERT_T2	0	0	0	0	0	0	-1.34	-0.1	2	2	0	1200	1200	0
9/10/2024 10:12	66504	SMAN_T2	0	1	1	0	0.5	0.5	-0.25	-0.17	0	0	0	0	0	0
9/10/2024 10:12	50107	HARR_T3	1	1	0	7.3	7.3	0	0	0	0	0	0	0	0	0
9/10/2024 10:12	45802	HEGI_T2	1	14	13	0.4	0.4	0	1.57	1.47	0	0	0	0	0	0
9/10/2024 10:12	45501	DERR_T2	1	1	0	0.1	0.1	0	0.73	0.7	2	2	0	1800	1800	0
9/10/2024 10:12	50106	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 10:12	66502	SMAN_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
9/10/2024 10:12	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 10:12	61502	EPET_T1	0	0	0	0	0	0	-0.84	-0.7	0	0	0	0	0	0
9/10/2024 10:12	50105	HARR_T3	6	6	0	6.12	6.07	-0.05	0	0	0	0	0	0	0	0
9/10/2024 10:12	50103	HARR_T3	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
9/10/2024 10:12	66501	SMAN_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
9/10/2024 10:13	50107	HARR_T3	1	1	0	7.3	7.3	0	0	0	0	0	0	0	0	0
9/10/2024 10:13	50106	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 10:13	63501	HEID_TBK1-2	47	48	1	0.64	0.62	-0.02	0.23	0.28	1	1	0	900	900	0
9/10/2024 10:13	40101	HUNT_T2	1	2	1	0.3	0.2	-0.1	-0.13	-0.12	0	0	0	0	0	0
9/10/2024 10:13	50103	HARR_T3	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
9/10/2024 10:13	50105	HARR_T3	6	6	0	6.12	6.07	-0.05	0	0	0	0	0	0	0	0
9/10/2024 10:14	63501	HEID_TBK1-2	47	48	1	0.64	0.62	-0.02	0.23	0.28	1	1	0	900	900	0
9/10/2024 10:14	45801	HEGI_T1	0	0	0	0	0	0	0.06	0.1	1	1	0	900	900	0
9/10/2024 10:14	63306	GREE_T1	0	1	1	0	0.1	0.1	-2.05	-2.05	1	1	0	900	900	0
9/10/2024 10:15	50105	HARR_T3	6	6	0	6.07	6.37	0.3	0	0	0	0	0	0	0	0
9/10/2024 10:15	11104	EGYP_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
9/10/2024 10:15	52002	LING_T2	1	0	-1	0.2	0	-0.2	-0.1	-0.09	0	0	0	0	0	0
9/10/2024 10:15	52402	GRPA_T2	1	8	7	0.9	0.29	-0.61	0	0	0	0	0	0	0	0
9/10/2024 10:15	11103	EGYP_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/10/2024 10:15	52403	GRPA_T2	91	106	15	0.88	1.2	0.32	-0.01	-0.05	0	0	0	0	0	0
9/10/2024 10:15	52004	LING_T2	5	6	1	2.72	2.33	-0.39	0	0	0	0	0	0	0	0
9/10/2024 10:15	11101	EGYP_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/10/2024 10:15	50103	HARR_T3	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
9/10/2024 10:15	53501	EVIL_T2	3	4	1	0.67	0.73	0.06	-0.01	-0.01	2	3	1	800	1700	900
9/10/2024 10:15	50107	HARR_T3	1	1	0	7.3	7.6	0.3	0	0	0	0	0	0	0	0
9/10/2024 10:15	63501	HEID_TBK1-2	47	34	-13	0.7	0.66	-0.04	0.23	0.28	1	1	0	900	900	0
9/10/2024 10:16	11103	EGYP_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/10/2024 10:16	40101	HUNT_T2	1	2	1	0.4	0	-0.4	-0.26	-0.24	0	0	0	0	0	0
9/10/2024 10:16	25501	MADI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/10/2024 10:16	63501	HEID_TBK1-2	47	34	-13	0.7	0.66	-0.04	0.23	0.28	1	1	0	900	900	0
9/10/2024 10:16	53501	EVIL_T2	3	4	1	0.67	0.73	0.06	-0.01	-0.01	4	6	2	1600	3400	1800
9/10/2024 10:16	11104	EGYP_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
9/10/2024 10:16	63306	GREE_T1	1	0	-1	0.1	0	-0.1	-4.1	-4.09	2	2	0	1800	1800	0
9/10/2024 10:16	52402	GRPA_T2	1	8	7	0.9	0.29	-0.61	0	0	0	0	0	0	0	0
9/10/2024 10:16	16402	MOPO_T1	0	0	0	0	0	0	0.7	1.19	0	0	0	0	0	0
9/10/2024 10:16	25503	MADI_T1	68	87	19	0.19	0.3	0.11	-0.97	-0.96	0	0	0	0	0	0
9/10/2024 10:16	20601	GRWO_T2	1	7	6	0.2	0.25	0.05	1.32	1.39	0	0	0	0	0	0
9/10/2024 10:16	52403	GRPA_T2	91	106	15	0.88	1.2	0.32	-0.01	-0.05	0	0	0	0	0	0
9/10/2024 10:16	25502	MADI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/10/2024 10:16	11101	EGYP_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/10/2024 10:17	52002	LING_T2	1	0	-1	0.2	0	-0.2	-0.1	-0.09	0	0	0	0	0	0
9/10/2024 10:17	51702	OBER_T1	2	4	2	3.15	1.88	-1.27	-0.96	-0.86	1	1	0	600	600	0
9/10/2024 10:17	52004	LING_T2	5	6	1	2.72	2.33	-0.39	0	0	0	0	0	0	0	0
9/10/2024 10:18	45802	HEGI_T2	14	3	-11	0.55	0.45	-0.1	1.57	1.47	0	0	0	0	0	0
9/10/2024 10:18	20601	GRWO_T2	1	7	6	0.2	0.25	0.05	1.32	1.39	0	0	0	0	0	0
9/10/2024 10:18	53502	EVIL_T2	0	0	0	0	0	0	0.45	0.5	2	2	0	1200	1200	0
9/10/2024 10:18	53501	EVIL_T2	3	4	1	0.67	0.73	0.06	-0.01	-0.01	2	3	1	800	1700	900
9/10/2024 10:18	51702	OBER_T1	2	4	2	3.15	1.88	-1.27	-0.96	-0.86	1	1	0	600	600	0
9/10/2024 10:19	13701	SCHN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/10/2024 10:19	53501	EVIL_T2	3	4	1	0.67	0.73	0.06	-0.01	-0.01	2	3	1	800	1700	900
9/10/2024 10:19	13704	SCHN_T2	1	1	0	0.1	0.2	0.1	-0.06	-0.21	0	0	0	0	0	0
9/10/2024 10:20	15702	TANN_T2	1	1	0	0.4	0.4	0	-0.31	-0.35	0	0	0	0	0	0
9/10/2024 10:20	52002	LING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/10/2024 10:20	15703	TANN_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
9/10/2024 10:20	16402	MOPO_T1	0	0	0	0	0	0	0.7	1.19	0	0	0	0	0	0
9/10/2024 10:20	52004	LING_T2	5	6	1	2.72	2.33	-0.39	0.85	0.85	0	0	0	0	0	0
9/10/2024 10:21	13905	SEID_T1	0	0	0	0	0	0	-0.95	-0.91	1	1	0	1200	1200	0
9/10/2024 10:21	15702	TANN_T2	1	1	0	0.4	0.4	0	-0.31	-0.35	0	0	0	0	0	0
9/10/2024 10:21	15703	TANN_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
9/10/2024 10:21	11407	FARM_T1	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
9/10/2024 10:22	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 10:22	64903	MILL_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
9/10/2024 10:23	15703	TANN_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
9/10/2024 10:23	15702	TANN_T2	1	1	0	0.4	0.4	0	-0.35	-0.32	0	0	0	0	0	0
9/10/2024 10:24	55002	NEWP_T1	8	9	1	0.83	1.07	0.24	0	0	0	0	0	0	0	0
9/10/2024 10:24	67702	WERN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/10/2024 10:24	67703	WERN_T2	0	1	1	0	0.4	0.4	-0.05	-0.04	1	1	0	900	900	0
9/10/2024 10:24	58101	NEKI_T1	3	3	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/10/2024 10:24	58102	NEKI_T1	2	2	0	0.95	0.95	0	-0.65	-0.55	1	1	0	1200	1200	0
9/10/2024 10:25	44301	BEAV_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/10/2024 10:25	55002	NEWP_T1	8	9	1	0.83	1.07	0.24	0	0	0	0	0	0	0	0
9/10/2024 10:27	20403	ASHF_T2	2	5	3	0.35	0.32	-0.03	2.63	2.63	0	0	0	0	0	0
9/10/2024 10:27	62601	ENGL_T1	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
9/10/2024 10:27	62607	ENGL_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/10/2024 10:27	20401	ASHF_T2	2	3	1	0.15	0.33	0.18	0	0	0	0	0	0	0	0
9/10/2024 10:27	55002	NEWP_T1	8	9	1	0.83	1.07	0.24	0	0	0	0	0	0	0	0
9/10/2024 10:28	67502	WEWI_T2	1	2	1	0.9	0.55	-0.35	-0.06	-0.06	0	0	0	0	0	0
9/10/2024 10:28	45501	DERR_T2	1	2	1	0.1	0.6	0.5	0.7	0.81	2	2	0	1800	1800	0
9/10/2024 10:28	67503	WEWI_T2	1	1	0	8.5	8.5	0	0	0	0	0	0	0	0	0
9/10/2024 10:29	63602	LETO_T1	0	4	4	0	0.3	0.3	-0.15	0.07	0	0	0	0	0	0
9/10/2024 10:29	63601	LETO_T1	2	3	1	0.25	0.57	0.32	0	0	0	0	0	0	0	0
9/10/2024 10:30	63602	LETO_T1	2	3	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/10/2024 10:30	63601	LETO_T1	3	3	0	0.57	0.23	-0.34	0.21	0.26	2	2	0	2100	2100	0
9/10/2024 10:32	52401	GRPA_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
9/10/2024 10:32	44703	MUNC_T2	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/10/2024 10:32	52403	GRPA_T2	99	104	5	1.04	1.22	0.18	0	0	0	0	0	0	0	0
9/10/2024 10:32	40601	PIGR_T1	16	70	54	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
9/10/2024 10:32	40603	PIGR_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
9/10/2024 10:32	52402	GRPA_T2	4	8	4	0.4	0.29	-0.11	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/10/2024 10:32	40602	PIGR_T1	1	2	1	1	0.5	-0.5	-0.44	-0.41	1	1	0	600	600	0
9/10/2024 10:33	25402	LAHA_T2	1	2	1	0.1	0.4	0.3	-0.7	-0.39	0	0	0	0	0	0
9/10/2024 10:33	64802	MONE_T2	1	2	1	0.5	0.25	-0.25	0.33	0.32	0	0	0	0	0	0
9/10/2024 10:33	12807	MICK_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
9/10/2024 10:33	12801	MICK_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
9/10/2024 10:33	63602	LETO_T1	2	3	1	0.1	0.4	0.3	-0.15	0.07	0	0	0	0	0	0
9/10/2024 10:33	63601	LETO_T1	3	3	0	0.57	0.23	-0.34	0	0	0	0	0	0	0	0
9/10/2024 10:34	65005	NEFF_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/10/2024 10:34	65001	NEFF_T2	0	0	0	0	0	0	-0.45	-0.36	1	1	0	1200	1200	0
9/10/2024 10:34	44201	POIN_T1	0	0	0	0	0	0	-0.41	-0.83	2	2	0	2100	2100	0
9/10/2024 10:34	44703	MUNC_T2	2	2	0	0.4	0.4	0	0.93	0.94	0	0	0	0	0	0
9/10/2024 10:35	53501	EVIL_T2	3	3	0	0.7	0.67	-0.03	-0.01	-0.01	3	2	-1	1700	800	-900
9/10/2024 10:35	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 10:35	56501	ROCK_T2	3	4	1	0.43	0.4	-0.03	-0.04	-0.03	0	0	0	0	0	0
9/10/2024 10:35	56504	ROCK_T2	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
9/10/2024 10:35	40602	PIGR_T1	1	2	1	1	0.5	-0.5	0	0	0	0	0	0	0	0
9/10/2024 10:35	47401	PENS_T1	0	2	2	0	0.1	0.1	0.59	0.7	0	0	0	0	0	0
9/10/2024 10:35	47403	PENS_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/10/2024 10:35	40603	PIGR_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
9/10/2024 10:35	23001	SAJO_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
9/10/2024 10:35	40601	PIGR_T1	16	70	54	0.4	0.27	-0.13	-0.34	-0.31	0	0	0	0	0	0
9/10/2024 10:35	44201	POIN_T1	0	0	0	0	0	0	-0.41	-0.83	2	2	0	2100	2100	0
9/10/2024 10:36	60502	NMAN_T2	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
9/10/2024 10:36	44201	POIN_T1	0	0	0	0	0	0	-2.5	-0.8	6	6	0	6300	6300	0
9/10/2024 10:36	41902	REED_T1	0	0	0	0	0	0	1.09	1.13	0	0	0	0	0	0
9/10/2024 10:36	60504	NMAN_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/10/2024 10:36	53501	EVIL_T2	3	3	0	0.7	0.67	-0.03	-0.01	-0.01	3	2	-1	1700	800	-900
9/10/2024 10:37	40601	PIGR_T1	16	70	54	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
9/10/2024 10:37	21704	SUBU_T1	0	0	0	0	0	0	-2.18	-2.1	2	2	0	2400	2400	0
9/10/2024 10:37	40603	PIGR_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
9/10/2024 10:37	21702	SUBU_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
9/10/2024 10:37	21701	SUBU_T1	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
9/10/2024 10:37	40602	PIGR_T1	1	2	1	1	0.5	-0.5	0	0	0	0	0	0	0	0
9/10/2024 10:37	21705	SUBU_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
9/10/2024 10:38	20403	ASHF_T2	5	6	1	0.32	0.45	0.13	1.32	1.28	0	0	0	0	0	0
9/10/2024 10:38	56504	ROCK_T2	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
9/10/2024 10:38	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 10:38	20401	ASHF_T2	3	2	-1	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
9/10/2024 10:38	56501	ROCK_T2	3	4	1	0.43	0.4	-0.03	-0.03	-0.01	0	0	0	0	0	0
9/10/2024 10:39	66502	SMAN_T2	1	1	0	0.9	0.8	-0.1	1.11	0.83	0	0	0	0	0	0
9/10/2024 10:39	66501	SMAN_T2	2	2	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/10/2024 10:39	60701	BREC_T1	0	2	2	0	0.4	0.4	-1.19	-1.18	4	4	0	2400	2400	0
9/10/2024 10:39	56501	ROCK_T2	3	4	1	0.43	0.4	-0.03	-0.03	-0.01	0	0	0	0	0	0
9/10/2024 10:39	67603	WARW_T1	1	2	1	0.4	0.45	0.05	0.05	0.08	0	0	0	0	0	0
9/10/2024 10:39	66504	SMAN_T2	1	2	1	0.5	0.1	-0.4	-0.19	-0.17	0	0	0	0	0	0
9/10/2024 10:39	59202	THOM_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/10/2024 10:39	47403	PENS_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/10/2024 10:39	45501	DERR_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
9/10/2024 10:39	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 10:39	67605	WARW_T1	17	18	1	0.54	0.45	-0.09	-1.03	-1.03	0	0	0	0	0	0
9/10/2024 10:39	56504	ROCK_T2	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
9/10/2024 10:39	47401	PENS_T1	0	2	2	0	0.1	0.1	0.7	0.68	0	0	0	0	0	0
9/10/2024 10:39	45502	DERR_T2	0	0	0	0	0	0	0.22	0.21	1	1	0	300	300	0
9/10/2024 10:40	40201	BEGA_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
9/10/2024 10:40	58705	ROSE_T2	5	5	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
9/10/2024 10:40	67605	WARW_T1	17	18	1	0.54	0.45	-0.09	-1.03	-1.03	0	0	0	0	0	0
9/10/2024 10:40	59102	WALK_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/10/2024 10:40	67603	WARW_T1	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
9/10/2024 10:40	59101	WALK_T2	0	1	1	0	0.3	0.3	7.83	8.92	0	0	0	0	0	0
9/10/2024 10:40	61001	DONV_T1	2	2	0	0.7	0.35	-0.35	-0.17	-0.14	0	0	0	0	0	0
9/10/2024 10:40	58701	ROSE_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
9/10/2024 10:40	60701	BREC_T1	0	2	2	0	0.4	0.4	-0.6	-0.59	2	2	0	1200	1200	0
9/10/2024 10:41	60701	BREC_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/10/2024 10:41	66502	SMAN_T2	1	1	0	0.9	0.8	-0.1	0.74	0.55	0	0	0	0	0	0
9/10/2024 10:41	51304	WIND_T2	1	1	0	1.2	1.4	0.2	0.05	0.08	0	0	0	0	0	0
9/10/2024 10:41	66501	SMAN_T2	2	2	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/10/2024 10:41	66504	SMAN_T2	1	2	1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
9/10/2024 10:42	67603	WARW_T1	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
9/10/2024 10:42	40201	BEGA_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
9/10/2024 10:42	11504	FREE_T1	0	0	0	0	0	0	-2.22	-2.24	2	2	0	2100	2100	0
9/10/2024 10:42	66504	SMAN_T2	1	2	1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
9/10/2024 10:42	67605	WARW_T1	17	18	1	0.54	0.45	-0.09	0	0	0	0	0	0	0	0
9/10/2024 10:42	66502	SMAN_T2	1	1	0	0.9	0.8	-0.1	0.74	0.55	0	0	0	0	0	0
9/10/2024 10:42	66501	SMAN_T2	2	2	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/10/2024 10:43	28701	HAML_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/10/2024 10:43	66504	SMAN_T2	1	2	1	0.5	0.1	-0.4	-0.39	-0.35	0	0	0	0	0	0
9/10/2024 10:43	67605	WARW_T1	17	18	1	0.54	0.45	-0.09	-1.03	-1.03	0	0	0	0	0	0
9/10/2024 10:43	10801	CHHI_T1	0	1	1	0	0.1	0.1	-0.51	-0.48	1	1	0	900	900	0
9/10/2024 10:43	67603	WARW_T1	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
9/10/2024 10:43	66501	SMAN_T2	2	2	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/10/2024 10:43	28702	HAML_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
9/10/2024 10:43	66502	SMAN_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
9/10/2024 10:44	43105	SMIL_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
9/10/2024 10:44	43103	SMIL_T2	22	16	-6	0.51	0.35	-0.16	0	0	0	0	0	0	0	0
9/10/2024 10:44	11901	ETEX_T2	0	0	0	0	0	0	0.45	0.49	0	0	0	0	0	0
9/10/2024 10:44	43102	SMIL_T2	6	6	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
9/10/2024 10:44	11904	ETEX_T2	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
9/10/2024 10:44	44801	EDAN_T2	64	162	98	0.47	0.67	0.2	-1.53	-1.46	0	0	0	0	0	0
9/10/2024 10:44	43108	SMIL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/10/2024 10:44	43101	SMIL_T2	1	1	0	0.8	1.2	0.4	-0.68	-0.73	0	0	0	0	0	0
9/10/2024 10:44	43104	SMIL_T2	3	2	-1	0.33	0.5	0.17	0	0	0	0	0	0	0	0
9/10/2024 10:46	52403	GRPA_T2	104	103	-1	1.2	1.11	-0.09	-0.03	-0.01	0	0	0	0	0	0
9/10/2024 10:46	52402	GRPA_T2	8	12	4	0.29	0.46	0.17	0	0	0	0	0	0	0	0
9/10/2024 10:46	17401	FOHI_T1	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
9/10/2024 10:47	42001	MNVL_T2	90	167	77	0.46	0.43	-0.03	-0.26	-0.2	0	0	0	0	0	0
9/10/2024 10:47	42002	MNVL_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
9/10/2024 10:48	43102	SMIL_T2	6	6	0	0.43	0.5	0.07	-0.72	-0.7	1	1	0	600	600	0
9/10/2024 10:48	64203	KINZ_T1	0	0	0	0	0	0	0.08	0	3	3	0	2100	2100	0
9/10/2024 10:48	43103	SMIL_T2	16	5	-11	0.35	0.58	0.23	0	0	0	0	0	0	0	0
9/10/2024 10:48	43104	SMIL_T2	2	2	0	0.25	0.7	0.45	0	0	0	0	0	0	0	0
9/10/2024 10:48	43105	SMIL_T2	2	2	0	0.45	0.65	0.2	0	0	0	0	0	0	0	0
9/10/2024 10:48	43101	SMIL_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
9/10/2024 10:48	43108	SMIL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/10/2024 10:48	64204	KINZ_T1	1	4	3	0.6	0.58	-0.02	0	0	0	0	0	0	0	0
9/10/2024 10:50	44202	POIN_T2	0	0	0	0	0	0	-0.59	-0.57	1	1	0	1200	1200	0
9/10/2024 10:50	42002	MNVL_T2	1	1	0	5.8	5.6	-0.2	0.11	0.13	0	0	0	0	0	0
9/10/2024 10:50	44203	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 10:50	42001	MNVL_T2	90	167	77	0.46	0.43	-0.03	0	0	0	0	0	0	0	0
9/10/2024 10:50	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 10:50	55002	NEWP_T1	9	9	0	1.07	0.96	-0.11	0	0	0	0	0	0	0	0
9/10/2024 10:51	56501	ROCK_T2	3	4	1	0.53	0.4	-0.13	-0.03	-0.01	0	0	0	0	0	0
9/10/2024 10:51	54601	SUMM_T2	6	8	2	0.43	0.3	-0.13	-1.71	-1.69	2	2	0	2100	2100	0
9/10/2024 10:51	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 10:51	40101	HUNT_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/10/2024 10:51	56504	ROCK_T2	1	3	2	0.6	0.47	-0.13	0	0	0	0	0	0	0	0
9/10/2024 10:53	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 10:53	67603	WARW_T1	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
9/10/2024 10:53	56501	ROCK_T2	3	4	1	0.53	0.4	-0.13	-0.01	0	0	0	0	0	0	0
9/10/2024 10:53	45402	WILO_T2	2	81	79	0.65	0.5	-0.15	-1.04	-1.04	1	1	0	900	900	0
9/10/2024 10:53	67605	WARW_T1	18	16	-2	0.37	0.49	0.12	-1.03	-1.02	0	0	0	0	0	0
9/10/2024 10:53	56504	ROCK_T2	1	3	2	0.6	0.47	-0.13	0	0	0	0	0	0	0	0
9/10/2024 10:54	67605	WARW_T1	18	16	-2	0.37	0.49	0.12	-1.03	-1.02	0	0	0	0	0	0
9/10/2024 10:54	67603	WARW_T1	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
9/10/2024 10:54	53903	HALI_T2	6	5	-1	0.43	0.7	0.27	0	0	0	0	0	0	0	0
9/10/2024 10:54	53902	HALI_T2	3	3	0	2.13	2.27	0.14	0	0	0	0	0	0	0	0
9/10/2024 10:54	53901	HALI_T2	2	3	1	0.8	0.67	-0.13	-2.44	-2.39	0	0	0	0	0	0
9/10/2024 10:55	11903	ETEX_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 10:55	53901	HALI_T2	2	3	1	0.8	0.67	-0.13	-6.11	-5.98	0	0	0	0	0	0
9/10/2024 10:55	56501	ROCK_T2	3	4	1	0.53	0.4	-0.13	-0.01	0	0	0	0	0	0	0
9/10/2024 10:55	53903	HALI_T2	6	5	-1	0.43	0.7	0.27	-0.06	-0.06	0	0	0	0	0	0
9/10/2024 10:55	53902	HALI_T2	3	3	0	2.13	2.27	0.14	0	0	0	0	0	0	0	0
9/10/2024 10:55	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 10:55	45902	AUBU_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
9/10/2024 10:55	56504	ROCK_T2	1	3	2	0.6	0.47	-0.13	0	0	0	0	0	0	0	0
9/10/2024 10:55	45901	AUBU_T1	0	0	0	0	0	0	1.57	1.64	0	0	0	0	0	0
9/10/2024 10:56	53902	HALI_T2	3	3	0	2.13	2.27	0.14	0	0	0	0	0	0	0	0
9/10/2024 10:56	53901	HALI_T2	2	3	1	0.8	0.67	-0.13	-3.67	-3.59	0	0	0	0	0	0
9/10/2024 10:56	53903	HALI_T2	6	5	-1	0.43	0.7	0.27	0	0	0	0	0	0	0	0
9/10/2024 10:56	45902	AUBU_T1	1	1	0	0.3	1	0.7	-0.48	-0.47	1	1	0	600	600	0
9/10/2024 10:56	55101	WERT_T1	0	0	0	0	0	0	-1.37	-1.51	3	3	0	2400	2400	0
9/10/2024 10:58	67603	WARW_T1	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
9/10/2024 10:58	45902	AUBU_T1	1	1	0	0.3	1	0.7	-0.97	-0.95	2	2	0	1200	1200	0
9/10/2024 10:58	67605	WARW_T1	18	16	-2	0.37	0.49	0.12	-1.03	-1.02	0	0	0	0	0	0
9/10/2024 10:58	48302	ORWI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/10/2024 10:59	22904	HARW_T1	0	0	0	0	0	0	-0.62	-0.58	0	0	0	0	0	0
9/10/2024 10:59	45902	AUBU_T1	1	1	0	0.3	1	0.7	-0.48	-0.47	1	1	0	600	600	0
9/10/2024 11:00	53901	HALI_T2	3	2	-1	0.67	0.6	-0.07	-1.22	-1.2	0	0	0	0	0	0
9/10/2024 11:00	52001	LING_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
9/10/2024 11:00	53903	HALI_T2	4	5	1	0.85	0.58	-0.27	0	0	0	0	0	0	0	0
9/10/2024 11:00	63306	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 11:00	53902	HALI_T2	3	3	0	2.27	2.03	-0.24	0	0	0	0	0	0	0	0
9/10/2024 11:00	63302	GREE_T1	0	0	0	0	0	0	0.82	0.93	0	0	0	0	0	0
9/10/2024 11:01	54505	ENOL_T2	2	1	-1	0.4	0.2	-0.2	-0.64	-0.64	1	1	0	600	600	0
9/10/2024 11:01	54504	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/10/2024 11:01	11507	FREE_T2	0	0	0	0	0	0	0.84	0.86	0	0	0	0	0	0
9/10/2024 11:02	43104	SMIL_T2	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/10/2024 11:02	43102	SMIL_T2	6	6	0	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
9/10/2024 11:02	43101	SMIL_T2	1	2	1	1.2	0.65	-0.55	0	0	0	0	0	0	0	0
9/10/2024 11:02	43108	SMIL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/10/2024 11:02	43103	SMIL_T2	4	12	8	0.55	0.41	-0.14	-0.77	-0.74	0	0	0	0	0	0
9/10/2024 11:02	64101	REFR_T1	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 11:02	46102	MACI_T1	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
9/10/2024 11:02	43105	SMIL_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/10/2024 11:03	43105	SMIL_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
9/10/2024 11:03	44802	EDAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/10/2024 11:03	43102	SMIL_T2	6	6	0	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
9/10/2024 11:03	43101	SMIL_T2	1	2	1	1.2	0.65	-0.55	0	0	0	0	0	0	0	0
9/10/2024 11:03	43108	SMIL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/10/2024 11:03	43104	SMIL_T2	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/10/2024 11:03	43103	SMIL_T2	4	12	8	0.55	0.41	-0.14	-0.77	-0.74	0	0	0	0	0	0
9/10/2024 11:03	64503	LAVI_T1	0	0	0	0	0	0	-0.99	-0.96	1	1	0	1200	1200	0
9/10/2024 11:03	44801	EDAN_T2	162	171	9	0.67	0.62	-0.05	-1.46	-1.52	0	0	0	0	0	0
9/10/2024 11:04	64101	REFR_T1	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 11:05	66703	STRA_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
9/10/2024 11:05	64101	REFR_T1	0	1	1	0	0.1	0.1	-0.02	-0.02	0	0	0	0	0	0
9/10/2024 11:05	66701	STRA_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
9/10/2024 11:06	65904	SAKR_T2	3	5	2	0.13	0.2	0.07	-1.95	-1.99	3	3	0	1500	1500	0
9/10/2024 11:06	64101	REFR_T1	0	1	1	0	0.1	0.1	-0.02	-0.02	0	0	0	0	0	0
9/10/2024 11:06	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 11:06	59202	THOM_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
9/10/2024 11:06	66703	STRA_T1	0	0	0	0	0	0	0.08	0.14	0	0	0	0	0	0
9/10/2024 11:06	65901	SAKR_T2	1	1	0	7.2	7.7	0.5	0	0	0	0	0	0	0	0
9/10/2024 11:06	66701	STRA_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
9/10/2024 11:07	57401	SPAN_T1	63	19	-44	0.44	0.66	0.22	-0.41	-0.14	0	0	0	0	0	0
9/10/2024 11:07	25603	ARRO_T1	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
9/10/2024 11:07	42802	SELI_T1	0	1	1	0	0.4	0.4	-0.9	-0.86	1	1	0	900	900	0
9/10/2024 11:07	57403	SPAN_T1	51	14	-37	0.37	0.39	0.02	0	0	0	0	0	0	0	0
9/10/2024 11:08	42802	SELI_T1	0	1	1	0	0.4	0.4	-1.8	-1.73	2	2	0	1800	1800	0
9/10/2024 11:08	57401	SPAN_T1	63	19	-44	0.44	0.66	0.22	-0.2	-0.07	0	0	0	0	0	0
9/10/2024 11:08	57403	SPAN_T1	51	14	-37	0.37	0.39	0.02	0.11	0.12	0	0	0	0	0	0
9/10/2024 11:09	57401	SPAN_T1	63	19	-44	0.44	0.66	0.22	-0.2	-0.07	0	0	0	0	0	0
9/10/2024 11:09	57403	SPAN_T1	51	14	-37	0.37	0.39	0.02	0.11	0.12	0	0	0	0	0	0
9/10/2024 11:10	25603	ARRO_T1	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
9/10/2024 11:10	60101	COCA_T1	2	2	0	0.3	0.35	0.05	0.43	0.51	0	0	0	0	0	0
9/10/2024 11:10	44802	EDAN_T2	0	2	2	0	0.15	0.15	-0.57	-0.57	0	0	0	0	0	0
9/10/2024 11:10	57401	SPAN_T1	63	19	-44	0.44	0.66	0.22	-1.02	-0.36	0	0	0	0	0	0
9/10/2024 11:10	46004	BERW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 11:10	57403	SPAN_T1	51	14	-37	0.37	0.39	0.02	0	0	0	0	0	0	0	0
9/10/2024 11:10	60102	COCA_T1	1	0	-1	0.2	0	-0.2	-0.23	-0.25	3	3	0	2100	2100	0
9/10/2024 11:10	44801	EDAN_T2	162	171	9	0.67	0.62	-0.05	0	0	0	0	0	0	0	0
9/10/2024 11:11	44802	EDAN_T2	0	2	2	0	0.15	0.15	-0.57	-0.57	0	0	0	0	0	0
9/10/2024 11:11	25603	ARRO_T1	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
9/10/2024 11:11	61505	EPET_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
9/10/2024 11:11	20403	ASHF_T2	6	12	6	0.45	0.67	0.22	0	0	0	0	0	0	0	0
9/10/2024 11:11	60101	COCA_T1	2	2	0	0.3	0.35	0.05	0.86	1.01	0	0	0	0	0	0
9/10/2024 11:11	44801	EDAN_T2	162	171	9	0.67	0.62	-0.05	0	0	0	0	0	0	0	0
9/10/2024 11:11	60102	COCA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/10/2024 11:11	20403	ASHF_T2	2	2	0	0.2	0.35	0.15	-0.07	-0.08	0	0	0	0	0	0
9/10/2024 11:11	11507	FREE_T2	0	0	0	0	0	0	0.86	0.87	0	0	0	0	0	0
9/10/2024 11:12	60101	COCA_T1	2	2	0	0.3	0.35	0.05	0.43	0.51	0	0	0	0	0	0
9/10/2024 11:12	60102	COCA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/10/2024 11:13	64204	KINZ_T1	2	4	2	0.35	0.58	0.23	0	0	0	0	0	0	0	0
9/10/2024 11:13	61501	EPET_T2	1	1	0	6	5.4	-0.6	0	0	0	0	0	0	0	0
9/10/2024 11:13	61504	EPET_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
9/10/2024 11:13	64203	KINZ_T1	0	0	0	0	0	0	0.01	0.19	3	3	0	2100	2100	0
9/10/2024 11:14	60102	COCA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/10/2024 11:14	16005	DORN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/10/2024 11:14	60101	COCA_T1	2	2	0	0.3	0.35	0.05	0.43	0.51	0	0	0	0	0	0
9/10/2024 11:14	16004	DORN_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/10/2024 11:15	22905	HARW_T1	0	0	0	0	0	0	-0.71	-0.67	0	0	0	0	0	0
9/10/2024 11:15	24702	FLND_T2	2	2	0	0.95	0.6	-0.35	0	0	1	1	0	1200	1200	0
9/10/2024 11:15	44801	EDAN_T2	159	165	6	0.58	0.67	0.09	0	0	0	0	0	0	0	0
9/10/2024 11:15	44802	EDAN_T2	0	2	2	0	0.15	0.15	-0.57	-0.57	0	0	0	0	0	0
9/10/2024 11:16	11102	EGYP_T1	0	3	3	0	1.57	1.57	0	0	0	0	0	0	0	0
9/10/2024 11:16	52403	GRPA_T2	97	107	10	0.84	1.11	0.27	0	0	0	0	0	0	0	0
9/10/2024 11:16	11101	EGYP_T1	1	2	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/10/2024 11:16	12701	MACU_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
9/10/2024 11:16	11104	EGYP_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
9/10/2024 11:16	52402	GRPA_T2	10	38	28	0.5	0.36	-0.14	-0.9	-0.92	0	0	0	0	0	0
9/10/2024 11:16	52401	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/10/2024 11:17	64203	KINZ_T1	0	2	2	0	0	0	0.01	0.19	3	3	0	2100	2100	0
9/10/2024 11:17	64204	KINZ_T1	4	4	0	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
9/10/2024 11:18	24202	PROV_T4	0	2	2	0	1.2	1.2	-0.34	-0.37	1	1	0	1200	1200	0
9/10/2024 11:19	52403	GRPA_T2	97	107	10	0.84	1.11	0.27	0	0	0	0	0	0	0	0
9/10/2024 11:19	12701	MACU_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
9/10/2024 11:19	52402	GRPA_T2	10	38	28	0.5	0.36	-0.14	-0.9	-0.92	0	0	0	0	0	0
9/10/2024 11:19	52401	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/10/2024 11:20	42802	SELI_T1	0	2	2	0	0.4	0.4	-0.9	-0.86	1	1	0	900	900	0
9/10/2024 11:20	47401	PENS_T1	14	6	-8	0.56	0.92	0.36	-0.51	-0.41	0	0	0	0	0	0
9/10/2024 11:20	47402	PENS_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
9/10/2024 11:20	47403	PENS_T1	4	2	-2	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
9/10/2024 11:21	47403	PENS_T1	4	2	-2	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
9/10/2024 11:21	57203	ROSS_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/10/2024 11:21	47401	PENS_T1	14	6	-8	0.56	0.92	0.36	-0.82	-0.94	0	0	0	0	0	0
9/10/2024 11:21	57205	ROSS_T1	2	3	1	1.05	0.93	-0.12	0.32	0.38	0	0	0	0	0	0
9/10/2024 11:21	59201	THOM_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/10/2024 11:21	42601	TUSC_T1	0	0	0	0	0	0	1.34	1.38	4	4	0	3600	3600	0
9/10/2024 11:21	47402	PENS_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
9/10/2024 11:21	59202	THOM_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
9/10/2024 11:21	64902	MILL_T2	0	0	0	0	0	0	-0.46	-0.43	1	1	0	900	900	0
9/10/2024 11:22	66701	STRA_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
9/10/2024 11:22	13704	SCHN_T2	1	1	0	0.2	0.4	0.2	0	0.05	0	0	0	0	0	0
9/10/2024 11:22	42802	SELI_T1	0	2	2	0	0.4	0.4	-0.86	-0.95	1	1	0	900	900	0
9/10/2024 11:22	47401	PENS_T1	14	6	-8	0.56	0.92	0.36	-0.41	-0.47	0	0	0	0	0	0
9/10/2024 11:22	59202	THOM_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
9/10/2024 11:22	13701	SCHN_T2	3	3	0	0.2	0.33	0.13	0	0	0	0	0	0	0	0
9/10/2024 11:22	47402	PENS_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
9/10/2024 11:22	59201	THOM_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/10/2024 11:22	66703	STRA_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
9/10/2024 11:22	47403	PENS_T1	4	2	-2	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
9/10/2024 11:23	59201	THOM_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/10/2024 11:23	59202	THOM_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
9/10/2024 11:24	47403	PENS_T1	4	2	-2	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
9/10/2024 11:24	16103	BING_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/10/2024 11:24	47402	PENS_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
9/10/2024 11:24	29202	APPE_T1	106	110	4	0.34	0.34	0	0	0	0	0	0	0	0	0
9/10/2024 11:24	16101	BING_T2	0	1	1	0	0.8	0.8	0.46	0.47	0	0	0	0	0	0
9/10/2024 11:24	16102	BING_T2	6	6	0	0.57	0.83	0.26	0	0	0	0	0	0	0	0
9/10/2024 11:24	47401	PENS_T1	14	6	-8	0.56	0.92	0.36	-0.82	-0.94	0	0	0	0	0	0
9/10/2024 11:24	29201	APPE_T1	1	2	1	1	0.65	-0.35	0	0	0	0	0	0	0	0
9/10/2024 11:25	42802	SELI_T1	0	2	2	0	0.4	0.4	-1.73	-1.89	2	2	0	1800	1800	0
9/10/2024 11:25	16103	BING_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/10/2024 11:25	59202	THOM_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
9/10/2024 11:25	47403	PENS_T1	4	2	-2	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
9/10/2024 11:25	59201	THOM_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/10/2024 11:25	47401	PENS_T1	14	6	-8	0.56	0.92	0.36	-0.41	-0.47	0	0	0	0	0	0
9/10/2024 11:25	16102	BING_T2	6	6	0	0.57	0.83	0.26	0.01	0.01	1	1	0	1200	1200	0
9/10/2024 11:25	16101	BING_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/10/2024 11:25	47402	PENS_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
9/10/2024 11:26	55101	WERT_T1	0	0	0	0	0	0	-1.36	-1.4	3	3	0	2400	2400	0
9/10/2024 11:27	16102	BING_T2	6	6	0	0.57	0.83	0.26	0	0	0	0	0	0	0	0
9/10/2024 11:27	16103	BING_T2	1	1	0	0.1	0.2	0.1	-1.47	-1.48	4	4	0	3000	3000	0
9/10/2024 11:27	16101	BING_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/10/2024 11:29	47901	HRDG_T1	0	1	1	0	0.6	0.6	0.4	0.6	1	1	0	1200	1200	0
9/10/2024 11:29	63804	HEMP_T1	1	1	0	6.4	6.5	0.1	-0.34	-0.4	0	0	0	0	0	0
9/10/2024 11:29	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 11:30	22901	HARW_T1	0	0	0	0	0	0	-0.1	-0.21	1	1	0	1200	1200	0
9/10/2024 11:30	23403	HONE_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
9/10/2024 11:31	53501	EVIL_T2	2	4	2	0.65	0.65	0	-0.01	-0.01	3	3	0	1700	1700	0
9/10/2024 11:31	25402	LAHA_T2	1	2	1	0.5	0.7	0.2	-0.18	-0.16	0	0	0	0	0	0
9/10/2024 11:32	58402	MORO_T1	0	0	0	0	0	0	0.05	0.03	2	2	0	1500	1500	0
9/10/2024 11:32	28805	LAKE_T1	1	1	0	0.6	0.5	-0.1	-0.19	-0.2	0	0	0	0	0	0
9/10/2024 11:32	28801	LAKE_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/10/2024 11:33	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 11:33	22405	MORG_T2	0	1	1	0	0.5	0.5	-0.05	-0.05	0	0	0	0	0	0
9/10/2024 11:33	22404	MORG_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/10/2024 11:33	22401	MORG_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/10/2024 11:38	45302	WBER_T2	0	0	0	0	0	0	0.98	0.94	0	0	0	0	0	0
9/10/2024 11:39	14802	TREI_T2	3	3	0	0.13	0.27	0.14	0.59	0.63	0	0	0	0	0	0
9/10/2024 11:39	14801	TREI_T2	4	7	3	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/10/2024 11:40	14802	TREI_T2	3	3	0	0.13	0.27	0.14	0.59	0.63	0	0	0	0	0	0
9/10/2024 11:40	46004	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 11:40	45302	WBER_T2	0	0	0	0	0	0	0.98	0.94	0	0	0	0	0	0
9/10/2024 11:40	14801	TREI_T2	4	7	3	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/10/2024 11:40	46002	BERW_T2	0	0	0	0	0	0	-0.5	-0.53	1	1	0	900	900	0
9/10/2024 11:41	46004	BERW_T2	0	1	1	0	0.2	0.2	0.01	-0.02	0	0	0	0	0	0
9/10/2024 11:41	15001	BLMO_T1	4	5	1	0.35	0.38	0.03	0	0	0	0	0	0	0	0
9/10/2024 11:41	44802	EDAN_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/10/2024 11:41	44801	EDAN_T2	164	154	-10	0.61	0.63	0.02	-1.52	-1.52	0	0	0	0	0	0
9/10/2024 11:42	23902	EFMO_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/10/2024 11:42	23901	EFMO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 11:43	43402	BENT_T1	2	0	-2	0.5	0	-0.5	-0.78	-0.77	2	2	0	1200	1200	0
9/10/2024 11:44	22602	KIMB_T1	1	2	1	0.1	0.65	0.55	0.36	0.36	0	0	0	0	0	0
9/10/2024 11:44	44801	EDAN_T2	164	154	-10	0.61	0.63	0.02	0	0	0	0	0	0	0	0
9/10/2024 11:44	44802	EDAN_T2	2	1	-1	0.15	0.1	-0.05	-0.59	-0.51	0	0	0	0	0	0
9/10/2024 11:44	22601	KIMB_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/10/2024 11:44	63501	HEID_TBK1-2	47	49	2	0.91	0.67	-0.24	0.24	0.22	1	1	0	900	900	0
9/10/2024 11:45	11301	EMMA_T1	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
9/10/2024 11:45	44802	EDAN_T2	1	1	0	0.1	0.4	0.3	-0.59	-0.51	0	0	0	0	0	0
9/10/2024 11:45	11303	EMMA_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
9/10/2024 11:45	44801	EDAN_T2	152	159	7	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
9/10/2024 11:45	11302	EMMA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 11:46	45801	HEGI_T1	1	0	-1	0.1	0	-0.1	0.04	0	1	1	0	900	900	0
9/10/2024 11:47	26402	INOR_T1	1	2	1	0.4	0.8	0.4	-0.89	-0.86	1	1	0	600	600	0
9/10/2024 11:47	26401	INOR_T1	2	4	2	3.95	2.68	-1.27	0	0	0	0	0	0	0	0
9/10/2024 11:48	43103	SMIL_T2	7	18	11	0.66	0.62	-0.04	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/10/2024 11:48	43105	SMIL_T2	2	3	1	0.35	0.63	0.28	0	0	0	0	0	0	0	0
9/10/2024 11:48	43101	SMIL_T2	2	3	1	0.65	0.73	0.08	-0.67	-0.67	0	0	0	0	0	0
9/10/2024 11:48	43102	SMIL_T2	5	6	1	0.26	0.42	0.16	0	0	0	0	0	0	0	0
9/10/2024 11:48	43104	SMIL_T2	1	2	1	0.4	0.75	0.35	0	0	0	0	0	0	0	0
9/10/2024 11:48	43108	SMIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/10/2024 11:50	53801	MBRG_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/10/2024 11:50	53802	MBRG_T2	0	0	0	0	0	0	0.75	1.31	0	0	0	0	0	0
9/10/2024 11:50	12701	MACU_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
9/10/2024 11:52	13704	SCHN_T2	1	1	0	0.4	0.5	0.1	0.17	0.07	0	0	0	0	0	0
9/10/2024 11:52	41205	KENM_T2	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
9/10/2024 11:52	41202	KENM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 11:52	13701	SCHN_T2	3	5	2	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
9/10/2024 11:53	59202	THOM_T1	0	23	23	0	0.41	0.41	0	0	0	0	0	0	0	0
9/10/2024 11:53	59201	THOM_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
9/10/2024 11:54	57403	SPAN_T1	15	40	25	0.39	0.45	0.06	0	0	0	0	0	0	0	0
9/10/2024 11:54	51306	WIND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 11:54	51304	WIND_T2	1	1	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
9/10/2024 11:54	57401	SPAN_T1	18	31	13	0.63	0.67	0.04	-0.12	-0.15	0	0	0	0	0	0
9/10/2024 11:55	59202	THOM_T1	0	23	23	0	0.41	0.41	0	0	0	0	0	0	0	0
9/10/2024 11:55	57401	SPAN_T1	18	31	13	0.63	0.67	0.04	-0.12	-0.15	0	0	0	0	0	0
9/10/2024 11:55	59201	THOM_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
9/10/2024 11:55	57403	SPAN_T1	15	40	25	0.39	0.45	0.06	0	0	0	0	0	0	0	0
9/10/2024 11:56	57403	SPAN_T1	15	40	25	0.39	0.45	0.06	0	0	0	0	0	0	0	0
9/10/2024 11:56	59202	THOM_T1	0	23	23	0	0.41	0.41	0	0	0	0	0	0	0	0
9/10/2024 11:56	57401	SPAN_T1	18	31	13	0.63	0.67	0.04	-0.23	-0.29	0	0	0	0	0	0
9/10/2024 11:56	45501	DERR_T2	2	2	0	0.4	0.3	-0.1	0.62	0.62	2	2	0	1800	1800	0
9/10/2024 11:56	59201	THOM_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
9/10/2024 11:57	61301	EARL_T1	0	0	0	0	0	0	-1.04	-1.01	2	2	0	1800	1800	0
9/10/2024 11:57	61302	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 11:57	57402	SPAN_T2	1	2	1	0.4	0.7	0.3	-0.42	-0.42	0	0	0	0	0	0
9/10/2024 11:58	57401	SPAN_T1	18	31	13	0.63	0.67	0.04	-0.12	-0.15	0	0	0	0	0	0
9/10/2024 11:58	44801	EDAN_T2	152	159	7	0.63	0.6	-0.03	-1.52	-1.47	0	0	0	0	0	0
9/10/2024 11:58	44802	EDAN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/10/2024 11:58	40201	BEGA_T2	1	1	0	0.1	1.2	1.1	0	0	0	0	0	0	0	0
9/10/2024 11:58	45501	DERR_T2	2	2	0	0.4	0.3	-0.1	1.23	1.24	4	4	0	3600	3600	0
9/10/2024 11:58	57403	SPAN_T1	15	40	25	0.39	0.45	0.06	0	0	0	0	0	0	0	0
9/10/2024 11:58	55105	WERT_T1	0	0	0	0	0	0	-0.28	-0.28	1	1	0	900	900	0
9/10/2024 11:59	57403	SPAN_T1	15	40	25	0.39	0.45	0.06	0.13	0.12	0	0	0	0	0	0
9/10/2024 11:59	49803	UNIV_T1	1	2	1	5.9	2.8	-3.1	-0.85	-2.09	0	0	0	0	0	0
9/10/2024 11:59	57401	SPAN_T1	18	31	13	0.63	0.67	0.04	0	0	0	0	0	0	0	0
9/10/2024 12:00	12604	MACA_T1	3	3	0	0.47	0.4	-0.07	0.43	0.46	0	0	0	0	0	0
9/10/2024 12:00	46402	FLEM_T2	3	25	22	0.3	0.14	-0.16	0.15	0.14	0	0	0	0	0	0
9/10/2024 12:00	12601	MACA_T1	2	2	0	1.25	1.2	-0.05	0	0	0	0	0	0	0	0
9/10/2024 12:00	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 12:00	46401	FLEM_T2	13	15	2	0.47	0.49	0.02	0	0	0	0	0	0	0	0
9/10/2024 12:00	49803	UNIV_T1	1	3	2	6.1	1.93	-4.17	-0.85	-2.09	0	0	0	0	0	0
9/10/2024 12:01	11904	ETEX_T2	1	1	0	2.3	2.5	0.2	0	0	0	0	0	0	0	0
9/10/2024 12:01	46401	FLEM_T2	13	15	2	0.47	0.49	0.02	0	0	0	0	0	0	0	0
9/10/2024 12:01	46402	FLEM_T2	3	25	22	0.3	0.14	-0.16	0.15	0.14	0	0	0	0	0	0
9/10/2024 12:01	11901	ETEX_T2	0	0	0	0	0	0	0.5	0.55	0	0	0	0	0	0
9/10/2024 12:02	60902	DONG_T2	0	1	1	0	0	0	1.15	1.12	0	0	0	0	0	0
9/10/2024 12:02	60901	DONG_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/10/2024 12:02	60904	DONG_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/10/2024 12:03	64902	MILL_T2	0	0	0	0	0	0	-0.43	-0.44	1	1	0	900	900	0
9/10/2024 12:03	41902	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 12:03	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 12:03	40101	HUNT_T2	1	2	1	0.2	0.1	-0.1	-0.15	-0.15	0	0	0	0	0	0
9/10/2024 12:03	65604	QVIL_T2	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
9/10/2024 12:04	53501	EVIL_T2	2	4	2	0.45	0.5	0.05	-0.01	-0.01	2	2	0	800	800	0
9/10/2024 12:05	58202	NEWV_T1	0	0	0	0	0	0	0.42	0.47	0	0	0	0	0	0
9/10/2024 12:05	58201	NEWV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 12:06	55508	HERS_T2	2	2	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
9/10/2024 12:06	40602	PIGR_T1	1	1	0	1	1	0	-0.32	-0.3	1	1	0	600	600	0
9/10/2024 12:06	40603	PIGR_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/10/2024 12:06	40601	PIGR_T1	120	107	-13	0.41	0.37	-0.04	0	0	0	0	0	0	0	0
9/10/2024 12:06	57203	ROSS_T1	0	1	1	0	0.2	0.2	0.53	0.54	0	0	0	0	0	0
9/10/2024 12:06	57205	ROSS_T1	3	3	0	1.13	1.07	-0.06	0	0	0	0	0	0	0	0
9/10/2024 12:07	40601	PIGR_T1	120	107	-13	0.41	0.37	-0.04	0	0	0	0	0	0	0	0
9/10/2024 12:07	13904	SEID_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
9/10/2024 12:07	40602	PIGR_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/10/2024 12:07	13901	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 12:07	40603	PIGR_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/10/2024 12:07	13905	SEID_T1	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/10/2024 12:09	55104	WERT_T2	0	0	0	0	0	0	-0.61	-0.57	3	3	0	2100	2100	0
9/10/2024 12:10	13901	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 12:10	57403	SPAN_T1	40	29	-11	0.44	0.47	0.03	0	0	0	0	0	0	0	0
9/10/2024 12:10	13905	SEID_T1	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/10/2024 12:10	57401	SPAN_T1	29	28	-1	0.63	0.7	0.07	-0.15	-0.11	0	0	0	0	0	0
9/10/2024 12:10	11202	ELHE_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
9/10/2024 12:10	61803	EELI_T2	0	0	0	0	0	0	0.48	0.52	1	1	0	600	600	0
9/10/2024 12:10	13904	SEID_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
9/10/2024 12:11	55105	WERT_T1	0	0	0	0	0	0	-0.28	-0.34	1	1	0	900	900	0
9/10/2024 12:12	46004	BERW_T2	0	5	5	0	0.3	0.3	0.06	0.06	0	0	0	0	0	0
9/10/2024 12:13	49803	UNIV_T1	1	3	2	6.1	1.93	-4.17	-2.09	-2.12	0	0	0	0	0	0
9/10/2024 12:13	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 12:13	46001	BERW_T1	0	1	1	0	0.1	0.1	0.83	0.8	0	0	0	0	0	0
9/10/2024 12:14	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 12:14	51603	DUKE_T1	0	0	0	0	0	0	-0.33	-0.25	0	0	0	0	0	0
9/10/2024 12:15	42903	MIDD_T2	2	2	0	0.55	0.6	0.05	0.15	0	1	1	0	1200	1200	0
9/10/2024 12:15	46506	LOHA_T1	3	3	0	5.47	5.23	-0.24	0	0	0	0	0	0	0	0
9/10/2024 12:15	42902	MIDD_T2	7	4	-3	0.5	0.38	-0.12	0	0	0	0	0	0	0	0
9/10/2024 12:15	46503	LOHA_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/10/2024 12:15	28801	LAKE_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/10/2024 12:15	11202	ELHE_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
9/10/2024 12:15	46501	LOHA_T1	0	1	1	0	0	0	0	0	1	1	0	1200	1200	0
9/10/2024 12:15	28805	LAKE_T1	1	1	0	1	0.8	-0.2	-0.2	-0.19	0	0	0	0	0	0
9/10/2024 12:17	22405	MORG_T2	2	2	0	0.15	0.3	0.15	-0.01	-0.02	0	0	0	0	0	0
9/10/2024 12:17	22404	MORG_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
9/10/2024 12:17	46506	LOHA_T1	3	3	0	5.47	5.23	-0.24	0	0	0	0	0	0	0	0
9/10/2024 12:17	46503	LOHA_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/10/2024 12:17	22401	MORG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 12:17	46501	LOHA_T1	0	1	1	0	0	0	0	0	1	1	0	1200	1200	0
9/10/2024 12:17	22406	MORG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 12:18	46503	LOHA_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/10/2024 12:18	46501	LOHA_T1	0	1	1	0	0	0	0	0	1	1	0	1200	1200	0
9/10/2024 12:18	46506	LOHA_T1	3	3	0	5.47	5.23	-0.24	0	0	0	0	0	0	0	0
9/10/2024 12:19	42902	MIDD_T2	7	4	-3	0.5	0.38	-0.12	-0.53	-0.16	2	2	0	1200	1200	0
9/10/2024 12:19	42903	MIDD_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
9/10/2024 12:20	42903	MIDD_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
9/10/2024 12:20	66701	STRA_T1	1	2	1	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
9/10/2024 12:20	42902	MIDD_T2	7	4	-3	0.5	0.38	-0.12	-0.26	-0.08	1	1	0	600	600	0
9/10/2024 12:20	66703	STRA_T1	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
9/10/2024 12:21	59201	THOM_T1	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
9/10/2024 12:21	59202	THOM_T1	23	27	4	0.41	0.42	0.01	0	0	0	0	0	0	0	0
9/10/2024 12:23	59201	THOM_T1	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
9/10/2024 12:23	59202	THOM_T1	23	27	4	0.41	0.42	0.01	0	0	0	0	0	0	0	0
9/10/2024 12:24	59202	THOM_T1	23	27	4	0.41	0.42	0.01	0	0	0	0	0	0	0	0
9/10/2024 12:24	59201	THOM_T1	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
9/10/2024 12:26	59201	THOM_T1	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
9/10/2024 12:26	59202	THOM_T1	23	27	4	0.41	0.42	0.01	0	0	0	0	0	0	0	0
9/10/2024 12:27	43505	WWIL_T1	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
9/10/2024 12:27	43506	WWIL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 12:27	43504	WWIL_T1	3	2	-1	0.13	0.1	-0.03	0.81	0.79	0	0	0	0	0	0
9/10/2024 12:28	57003	WHHI_T2	2	1	-1	0.6	1	0.4	0	0	0	0	0	0	0	0
9/10/2024 12:28	45501	DERR_T2	2	2	0	0.25	0.4	0.15	0.6	0.92	2	2	0	1800	1800	0
9/10/2024 12:28	57004	WHHI_T2	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
9/10/2024 12:29	40101	HUNT_T2	0	3	3	0	0.17	0.17	-0.14	-0.12	0	0	0	0	0	0
9/10/2024 12:30	40101	HUNT_T2	1	3	2	0.1	0.4	0.3	-0.14	-0.12	0	0	0	0	0	0
9/10/2024 12:31	28805	LAKE_T1	1	1	0	0.8	0.8	0	-0.19	-0.19	0	0	0	0	0	0
9/10/2024 12:31	28801	LAKE_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
9/10/2024 12:31	40101	HUNT_T2	1	3	2	0.1	0.4	0.3	-0.14	-0.12	0	0	0	0	0	0
9/10/2024 12:31	28803	LAKE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 12:32	24501	GOUL_T2	3	7	4	0.6	0.43	-0.17	0.08	0.08	0	0	0	0	0	0
9/10/2024 12:32	67703	WERN_T2	1	1	0	1	0.9	-0.1	0.12	0.07	1	1	0	900	900	0
9/10/2024 12:32	24502	GOUL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/10/2024 12:32	67702	WERN_T2	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
9/10/2024 12:33	47002	HUGH_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
9/10/2024 12:33	47001	HUGH_T2	4	5	1	5.88	4.62	-1.26	0	0	0	0	0	0	0	0
9/10/2024 12:34	58402	MORO_T1	0	0	0	0	0	0	-0.03	-0.05	4	4	0	3000	3000	0
9/10/2024 12:34	58401	MORO_T1	0	1	1	0	0.1	0.1	-0.15	-0.12	0	0	0	0	0	0
9/10/2024 12:35	58401	MORO_T1	0	1	1	0	0.1	0.1	-0.15	-0.12	0	0	0	0	0	0
9/10/2024 12:36	43202	MVIL_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
9/10/2024 12:36	43201	MVIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/10/2024 12:37	43201	MVIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/10/2024 12:37	59202	THOM_T1	27	2	-25	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
9/10/2024 12:37	43202	MVIL_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
9/10/2024 12:37	59201	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 12:37	24201	PROV_T3	1	1	0	7.4	7.5	0.1	0	0.04	0	0	0	0	0	0
9/10/2024 12:37	24204	PROV_T3	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
9/10/2024 12:38	45402	WBLO_T2	86	89	3	0.45	0.47	0.02	-1.01	-1.01	1	1	0	900	900	0
9/10/2024 12:38	59201	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 12:38	59202	THOM_T1	27	2	-25	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
9/10/2024 12:39	67501	WEWI_T1	4	4	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
9/10/2024 12:39	67502	WEWI_T2	3	2	-1	0.6	0.6	0	0	0	0	0	0	0	0	0
9/10/2024 12:39	67505	WEWI_T1	1	0	-1	0.1	0	-0.1	0.17	0.21	2	2	0	1800	1800	0
9/10/2024 12:39	67503	WEWI_T2	2	1	-1	4.05	7.9	3.85	0.05	0.06	0	0	0	0	0	0
9/10/2024 12:40	59202	THOM_T1	27	2	-25	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
9/10/2024 12:40	53601	DALM_T2	1	1	0	0.9	0.6	-0.3	-0.49	-0.43	1	1	0	900	900	0
9/10/2024 12:40	59201	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 12:40	12302	LANA_T2	0	0	0	0	0	0	-1.44	-1.38	2	2	0	1500	1500	0
9/10/2024 12:42	59201	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 12:42	40201	BEGA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/10/2024 12:42	53601	DALM_T2	1	1	0	0.9	0.6	-0.3	-0.49	-0.43	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/10/2024 12:42	59202	THOM_T1	27	2	-25	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
9/10/2024 12:42	67503	WEWI_T2	2	1	-1	4.05	7.9	3.85	0.05	0.06	0	0	0	0	0	0
9/10/2024 12:42	67502	WEWI_T2	3	2	-1	0.6	0.6	0	0	0	0	0	0	0	0	0
9/10/2024 12:43	40201	BEGA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/10/2024 12:44	44801	EDAN_T2	158	159	1	0.59	0.64	0.05	-2.94	-3.01	0	0	0	0	0	0
9/10/2024 12:44	44802	EDAN_T2	1	2	1	0.1	0.25	0.15	-0.53	-0.54	0	0	0	0	0	0
9/10/2024 12:44	57403	SPAN_T1	21	13	-8	0.4	0.48	0.08	0	0	0	0	0	0	0	0
9/10/2024 12:44	57401	SPAN_T1	24	19	-5	0.64	0.61	-0.03	-0.11	-0.13	0	0	0	0	0	0
9/10/2024 12:45	12002	HATF_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
9/10/2024 12:45	62607	ENGL_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	300	300	0
9/10/2024 12:45	12001	HATF_T1	0	0	0	0	0	0	3.18	3.18	2	2	0	1200	1200	0
9/10/2024 12:46	40802	EXCH_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/10/2024 12:46	40801	EXCH_T2	2	2	0	0.2	0.3	0.1	-0.16	-0.32	1	1	0	1200	1200	0
9/10/2024 12:47	63403	HONY_T2	0	0	0	0	0	0	-0.31	-0.28	1	1	0	600	600	0
9/10/2024 12:47	67703	WERN_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
9/10/2024 12:47	67702	WERN_T2	2	2	0	0.4	0.6	0.2	1.19	1.22	0	0	0	0	0	0
9/10/2024 12:53	55405	SHER_T1	6	0	-6	0.18	0	-0.18	-0.17	-0.17	0	0	0	0	0	0
9/10/2024 12:56	50103	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 12:56	57401	SPAN_T1	18	18	0	0.62	0.62	0	0	0	0	0	0	0	0	0
9/10/2024 12:56	50107	HARR_T3	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
9/10/2024 12:56	57403	SPAN_T1	12	15	3	0.49	0.45	-0.04	0.14	0.15	0	0	0	0	0	0
9/10/2024 12:56	50201	HARR_T3	0	1	1	0	0.4	0.4	0	0	1	1	0	1200	1200	0
9/10/2024 12:56	50105	HARR_T3	6	6	0	6.52	6.32	-0.2	0	0	0	0	0	0	0	0
9/10/2024 12:57	66502	SMAN_T2	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
9/10/2024 12:57	66501	SMAN_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
9/10/2024 12:57	50103	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 12:57	66504	SMAN_T2	0	1	1	0	0.1	0.1	0.07	0.07	0	0	0	0	0	0
9/10/2024 12:57	50107	HARR_T3	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
9/10/2024 12:57	66505	SMAN_T2	1	1	0	1.4	0.1	-1.3	0	0	0	0	0	0	0	0
9/10/2024 12:57	50201	HARR_T3	0	1	1	0	0.4	0.4	0	0	1	1	0	1200	1200	0
9/10/2024 12:57	10805	CHHI_T2	1	4	3	8.8	2.18	-6.62	-0.33	-1.43	1	2	1	600	1800	1200
9/10/2024 12:57	50105	HARR_T3	6	6	0	6.52	6.32	-0.2	0	0	0	0	0	0	0	0
9/10/2024 12:58	46206	DANV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 12:58	42802	SELI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 12:58	46203	DANV_T2	2	1	-1	3.5	6.7	3.2	0.68	0.65	0	0	0	0	0	0
9/10/2024 12:58	42801	SELI_T1	0	0	0	0	0	0	-0.65	-0.66	1	1	0	1200	1200	0
9/10/2024 12:59	67502	WEWI_T2	2	3	1	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
9/10/2024 12:59	67503	WEWI_T2	1	1	0	7.9	8	0.1	0.06	0.09	0	0	0	0	0	0
9/10/2024 13:00	50103	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 13:00	50105	HARR_T3	6	6	0	6.32	6.4	0.08	0	0	0	0	0	0	0	0
9/10/2024 13:00	50107	HARR_T3	1	1	0	6.8	7.1	0.3	0	0	0	0	0	0	0	0
9/10/2024 13:00	21705	SUBU_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
9/10/2024 13:00	21703	SUBU_T1	0	0	0	0	0	0	0.16	0.11	0	0	0	0	0	0
9/10/2024 13:00	21701	SUBU_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
9/10/2024 13:00	50201	HARR_T3	1	1	0	0.4	0.3	-0.1	0	0	1	1	0	1200	1200	0
9/10/2024 13:01	50107	HARR_T3	1	1	0	6.8	7.1	0.3	0	0	0	0	0	0	0	0
9/10/2024 13:01	50201	HARR_T3	1	1	0	0.4	0.3	-0.1	0	0	1	1	0	1200	1200	0
9/10/2024 13:01	50103	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 13:01	53501	EVIL_T2	0	3	3	0	0.57	0.57	-0.01	-0.01	3	3	0	1700	2100	400
9/10/2024 13:01	50105	HARR_T3	6	6	0	6.32	6.4	0.08	0	0	0	0	0	0	0	0
9/10/2024 13:01	49803	UNIV_T1	3	3	0	1.93	1.77	-0.16	-2.16	-1.98	0	0	0	0	0	0
9/10/2024 13:01	49804	UNIV_T1	3	1	-2	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/10/2024 13:01	53502	EVIL_T2	0	0	0	0	0	0	0.59	0.05	2	2	0	1200	1200	0
9/10/2024 13:02	53501	EVIL_T2	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
9/10/2024 13:02	53502	EVIL_T2	0	0	0	0	0	0	0.59	0.05	2	2	0	1200	1200	0
9/10/2024 13:02	21206	ECAR_T2	1	1	0	8.2	8.1	-0.1	0.94	0.97	0	0	0	0	0	0
9/10/2024 13:02	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 13:03	15203	SFAR_T2	6	5	-1	0.35	0.56	0.21	-0.95	-0.98	0	0	0	0	0	0
9/10/2024 13:03	15204	SFAR_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
9/10/2024 13:04	53501	EVIL_T2	0	3	3	0	0.57	0.57	-0.01	-0.01	3	3	0	1700	2100	400
9/10/2024 13:05	41002	LAUR_T2	1	2	1	1.6	1.6	0	0.08	0.11	0	0	0	0	0	0
9/10/2024 13:05	65205	PRIN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/10/2024 13:05	41001	LAUR_T2	2	2	0	1.15	1.05	-0.1	0	0	0	0	0	0	0	0
9/10/2024 13:05	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
9/10/2024 13:05	13005	NBET_T2	0	0	0	0	0	0	-0.28	-0.08	1	1	0	1200	1200	0
9/10/2024 13:06	64101	REFR_T1	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 13:06	13005	NBET_T2	0	0	0	0	0	0	-0.08	-0.13	1	1	0	1200	1200	0
9/10/2024 13:06	44201	BOIN_T1	0	0	0	0	0	0	-0.68	-0.8	2	2	0	2100	2100	0
9/10/2024 13:07	24801	VALM_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
9/10/2024 13:07	40201	BEGA_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
9/10/2024 13:07	67804	WLAN_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
9/10/2024 13:07	67803	WLAN_T1	1	1	0	0.2	0.2	0	-0.71	-0.7	0	0	0	0	0	0
9/10/2024 13:10	46205	DANV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/10/2024 13:10	46203	DANV_T2	1	1	0	6.7	6.4	-0.3	0	0	0	0	0	0	0	0
9/10/2024 13:10	60803	BUCK_T1	0	0	0	0	0	0	-0.38	-0.36	1	1	0	600	600	0
9/10/2024 13:10	46206	DANV_T2	1	1	0	0	0	0	1.46	0.69	2	2	0	2100	2100	0
9/10/2024 13:10	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 13:11	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0.78	0.67	2	2	0	1500	1500	0
9/10/2024 13:11	66502	SMAN_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
9/10/2024 13:11	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 13:11	67503	WEWI_T2	1	1	0	7.7	8	0.3	0	0	0	0	0	0	0	0
9/10/2024 13:11	46004	BERW_T2	0	3	3	0	0.25	0.25	0	0	0	0	0	0	0	0
9/10/2024 13:11	67502	WEWI_T2	1	3	2	0.8	0.53	-0.27	0.13	0.2	0	0	0	0	0	0
9/10/2024 13:11	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 13:11	66501	SMAN_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/10/2024 13:11	45902	AUBU_T1	1	2	1	0.8	0.6	-0.2	-0.47	-0.53	1	1	0	600	600	0
9/10/2024 13:11	62605	ENGL_T1	0	0	0	0	0	0	-0.84	-0.93	0	0	0	0	0	0
9/10/2024 13:11	60803	BUCK_T1	0	0	0	0	0	0	-0.38	-0.36	1	1	0	600	600	0
9/10/2024 13:11	14201	EALL_T1	0	0	0	0	0	0	1.65	1.65	0	0	0	0	0	0
9/10/2024 13:11	14203	EALL_T1	5	4	-1	0.72	0.68	-0.04	0.22	0.37	2	2	0	2400	2400	0
9/10/2024 13:11	46002	BERW_T2	0	0	0	0	0	0	-0.59	-0.49	1	1	0	900	900	0
9/10/2024 13:12	45901	AUBU_T1	0	0	0	0	0	0	1.7	1.72	0	0	0	0	0	0
9/10/2024 13:12	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0.78	0.67	2	2	0	1500	1500	0
9/10/2024 13:12	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 13:12	66502	SMAN_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
9/10/2024 13:12	66501	SMAN_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/10/2024 13:12	60803	BUCK_T1	0	0	0	0	0	0	-0.77	-0.73	2	2	0	1200	1200	0
9/10/2024 13:12	45902	AUBU_T1	1	2	1	0.8	0.6	-0.2	-0.47	-0.53	1	1	0	600	600	0
9/10/2024 13:12	14203	EALL_T1	5	4	-1	0.72	0.68	-0.04	0.22	0.37	2	2	0	2400	2400	0
9/10/2024 13:12	46002	BERW_T2	0	0	0	0	0	0	-1.19	-0.98	2	2	0	1800	1800	0
9/10/2024 13:12	62607	ENGL_T1	0	0	0	0	0	0	-1.87	-1.82	2	2	0	600	600	0
9/10/2024 13:12	46004	BERW_T2	0	3	3	0	0.25	0.25	0	0	0	0	0	0	0	0
9/10/2024 13:12	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 13:12	14201	EALL_T1	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
9/10/2024 13:13	12007	HATF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 13:13	67502	WEWI_T2	1	3	2	0.8	0.53	-0.27	0	0	0	0	0	0	0	0
9/10/2024 13:13	60803	BUCK_T1	0	0	0	0	0	0	-0.38	-0.36	1	1	0	600	600	0
9/10/2024 13:13	51902	COPA_T1	0	0	0	0	0	0	-1.43	-1.4	1	1	0	1200	1200	0
9/10/2024 13:13	51904	COPA_T1	4	5	1	0.43	0.5	0.07	0	0	0	0	0	0	0	0
9/10/2024 13:13	62607	ENGL_T1	0	0	0	0	0	0	-0.93	-0.91	1	1	0	300	300	0
9/10/2024 13:13	67501	WEWI_T1	4	5	1	0.53	0.36	-0.17	-0.81	-0.68	1	1	0	600	600	0
9/10/2024 13:13	67503	WEWI_T2	1	1	0	7.7	8	0.3	0.09	0.14	0	0	0	0	0	0
9/10/2024 13:13	53601	DALM_T2	1	1	0	0.3	0.7	0.4	-0.48	-0.62	1	1	0	900	900	0
9/10/2024 13:13	12002	HATF_T1	1	1	0	1.1	1.1	0	0.68	0.76	1	1	0	1200	1200	0
9/10/2024 13:13	67505	WEWI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 13:13	14601	SWHI_T1	0	0	0	0	0	0	-0.17	-0.08	0	0	0	0	0	0
9/10/2024 13:13	55105	WERT_T1	0	0	0	0	0	0	-0.25	-0.2	1	1	0	900	900	0
9/10/2024 13:13	14603	SWHI_T1	4	4	0	0.33	0.25	-0.08	-0.13	-0.04	0	0	0	0	0	0
9/10/2024 13:14	12003	HATF_T1	0	0	0	0	0	0	0.76	0.76	1	1	0	1200	1200	0
9/10/2024 13:14	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 13:14	46004	BERW_T2	0	3	3	0	0.25	0.25	0	0	0	0	0	0	0	0
9/10/2024 13:14	41305	FISH_T1	1	1	0	0.2	0.8	0.6	0.16	0.16	0	0	0	0	0	0
9/10/2024 13:14	46002	BERW_T2	0	0	0	0	0	0	-1.19	-0.98	2	2	0	1800	1800	0
9/10/2024 13:14	14605	SWHI_T1	0	0	0	0	0	0	1.52	1.63	1	1	0	1200	1200	0
9/10/2024 13:14	62606	ENGL_T1	0	0	0	0	0	0	-0.9	-0.99	2	2	0	1500	1500	0
9/10/2024 13:14	14306	SUMN_T1	0	0	0	0	0	0	-0.83	-0.81	1	1	0	1200	1200	0
9/10/2024 13:14	14308	SUMN_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
9/10/2024 13:14	46205	DANV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/10/2024 13:14	62604	ENGL_T1	0	0	0	0	0	0	-0.52	-0.53	1	1	0	600	600	0
9/10/2024 13:14	14303	SUMN_T1	4	4	0	5.6	7.4	1.8	0	0	0	0	0	0	0	0
9/10/2024 13:14	12002	HATF_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
9/10/2024 13:14	46203	DANV_T2	1	1	0	6.7	6.4	-0.3	0	0	0	0	0	0	0	0
9/10/2024 13:14	17401	FOHI_T1	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
9/10/2024 13:14	14603	SWHI_T1	4	4	0	0.33	0.25	-0.08	-0.13	-0.04	0	0	0	0	0	0
9/10/2024 13:14	12007	HATF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 13:14	41301	FISH_T1	5	5	0	1.56	1.5	-0.06	0	0	0	0	0	0	0	0
9/10/2024 13:14	46206	DANV_T2	1	1	0	0	0	0	1.46	0.69	2	2	0	2100	2100	0
9/10/2024 13:14	14301	SUMN_T1	0	0	0	0	0	0	-1.16	-1.17	0	0	0	0	0	0
9/10/2024 13:15	12007	HATF_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/10/2024 13:15	10901	COOP_T2	2	3	1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
9/10/2024 13:15	47202	FAXO_T2	0	0	0	0	0	0	-2.13	-2.15	0	0	0	0	0	0
9/10/2024 13:15	10903	COOP_T2	4	1	-3	2.5	1.7	-0.8	0.32	0.4	1	1	0	600	600	0
9/10/2024 13:15	16006	DORN_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/10/2024 13:15	63401	HONY_T1	0	0	0	0	0	0	0.03	0.19	1	1	0	600	600	0
9/10/2024 13:15	14601	SWHI_T1	0	4	4	0	0.28	0.28	-0.17	-0.08	0	0	0	0	0	0
9/10/2024 13:15	12002	HATF_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
9/10/2024 13:15	46203	DANV_T2	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
9/10/2024 13:15	16002	DORN_T2	0	1	1	0	0.4	0.4	-0.49	-0.5	1	1	0	1200	1200	0
9/10/2024 13:15	14306	SUMN_T1	0	0	0	0	0	0	-0.83	-0.81	1	1	0	1200	1200	0
9/10/2024 13:15	14303	SUMN_T1	3	4	1	7.4	5.73	-1.67	0	0	0	0	0	0	0	0
9/10/2024 13:15	60103	COCA_T2	0	0	0	0	0	0	-1.12	-1.03	1	1	0	1200	1200	0
9/10/2024 13:15	46205	DANV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/10/2024 13:15	62605	ENGL_T1	0	0	0	0	0	0	-0.42	-0.46	0	0	0	0	0	0
9/10/2024 13:15	14603	SWHI_T1	3	2	-1	0.2	0.7	0.5	-0.25	-0.09	0	0	0	0	0	0
9/10/2024 13:15	46206	DANV_T2	1	0	-1	0.2	0	-0.2	1.46	0.69	2	2	0	2100	2100	0
9/10/2024 13:15	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 13:16	52403	GRPA_T2	87	64	-23	0.77	0.67	-0.1	0	0	0	0	0	0	0	0
9/10/2024 13:16	14603	SWHI_T1	3	2	-1	0.2	0.7	0.5	-0.13	-0.04	0	0	0	0	0	0
9/10/2024 13:16	52401	GRPA_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/10/2024 13:16	65503	MOJO_T2	1	2	1	0.2	0.2	0	-0.41	-0.44	1	1	0	900	900	0
9/10/2024 13:16	44503	HAMI_T2	0	0	0	0	0	0	-1.1	-1.04	1	1	0	1200	1200	0
9/10/2024 13:16	52404	GRPA_T2	0	0	0	0	0	0	0.72	0.66	0	0	0	0	0	0
9/10/2024 13:16	62607	ENGL_T1	0	0	0	0	0	0	-1.87	-1.82	2	2	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/10/2024 13:16	61302	EARL_T1	0	0	0	0	0	0	0.25	0.32	3	3	0	2700	2700	0
9/10/2024 13:16	14303	SUMN_T1	3	4	1	7.4	5.73	-1.67	0	0	0	0	0	0	0	0
9/10/2024 13:16	52402	GRPA_T2	16	13	-3	0.47	0.47	0	0	0	0	0	0	0	0	0
9/10/2024 13:16	44502	HAMI_T2	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
9/10/2024 13:16	14301	SUMN_T1	0	0	0	0	0	0	-1.16	-1.17	0	0	0	0	0	0
9/10/2024 13:16	14307	SUMN_T1	0	0	0	0	0	0	-0.14	-0.05	1	1	0	900	900	0
9/10/2024 13:16	61301	EARL_T1	0	0	0	0	0	0	-1.01	-1	2	2	0	1800	1800	0
9/10/2024 13:16	14602	SWHI_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
9/10/2024 13:16	14601	SWHI_T1	0	4	4	0	0.28	0.28	-0.06	-0.03	0	0	0	0	0	0
9/10/2024 13:17	14307	SUMN_T1	0	0	0	0	0	0	-0.28	-0.11	2	2	0	1800	1800	0
9/10/2024 13:17	14601	SWHI_T1	0	4	4	0	0.28	0.28	-0.06	-0.03	0	0	0	0	0	0
9/10/2024 13:17	14303	SUMN_T1	3	4	1	7.4	5.73	-1.67	0	0	0	0	0	0	0	0
9/10/2024 13:17	14605	SWHI_T1	0	0	0	0	0	0	1.52	1.63	1	1	0	1200	1200	0
9/10/2024 13:17	11601	CEAL_T1	0	1	1	0	0.4	0.4	0	0	1	1	0	1200	1200	0
9/10/2024 13:17	14603	SWHI_T1	3	2	-1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
9/10/2024 13:17	27604	PIRI_T1	0	0	0	0	0	0	0.59	0.63	0	0	0	0	0	0
9/10/2024 13:17	14306	SUMN_T1	0	0	0	0	0	0	-0.83	-0.81	1	1	0	1200	1200	0
9/10/2024 13:17	14604	SWHI_T1	0	0	0	0	0	0	-1.21	-1.24	3	3	0	2700	2700	0
9/10/2024 13:18	14303	SUMN_T1	3	4	1	7.4	5.73	-1.67	0	0	0	0	0	0	0	0
9/10/2024 13:18	14301	SUMN_T1	0	0	0	0	0	0	-1.16	-1.17	0	0	0	0	0	0
9/10/2024 13:18	53501	EVIL_T2	3	4	1	0.47	0.55	0.08	-0.01	-0.01	3	3	0	2100	2100	0
9/10/2024 13:18	42701	AUGU_T1	2	2	0	0.8	0.6	-0.2	0	0	2	2	0	1800	1800	0
9/10/2024 13:19	12007	HATF_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/10/2024 13:19	54201	PENN_T1	8	7	-1	0.58	0.7	0.12	-0.73	-0.78	0	0	0	0	0	0
9/10/2024 13:19	12002	HATF_T1	1	1	0	1.2	1.1	-0.1	0.68	0.76	1	1	0	1200	1200	0
9/10/2024 13:19	52502	PROG_T2	0	0	0	0	0	0	-0.47	-0.5	1	1	0	900	900	0
9/10/2024 13:19	67001	STHI_T2	4	5	1	0.3	0.28	-0.02	0.22	0.23	0	0	0	0	0	0
9/10/2024 13:19	54203	PENN_T1	5	5	0	0.4	0.48	0.08	0	0	0	0	0	0	0	0
9/10/2024 13:19	65503	MOJO_T2	1	2	1	0.2	0.2	0	-0.41	-0.44	1	1	0	900	900	0
9/10/2024 13:19	67002	STHI_T2	9	8	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
9/10/2024 13:20	14601	SWHI_T1	0	4	4	0	0.28	0.28	-0.06	-0.03	0	0	0	0	0	0
9/10/2024 13:20	14603	SWHI_T1	3	2	-1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
9/10/2024 13:21	67002	STHI_T2	9	8	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
9/10/2024 13:21	67001	STHI_T2	4	5	1	0.3	0.28	-0.02	0.23	0.25	0	0	0	0	0	0
9/10/2024 13:21	58401	MORO_T1	0	0	0	0	0	0	-0.13	-0.06	0	0	0	0	0	0
9/10/2024 13:21	52502	PROG_T2	0	0	0	0	0	0	-0.94	-1	2	2	0	1800	1800	0
9/10/2024 13:22	67001	STHI_T2	4	5	1	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
9/10/2024 13:22	27604	PIRI_T1	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
9/10/2024 13:22	53501	EVIL_T2	3	4	1	0.47	0.55	0.08	-0.01	-0.01	3	3	0	2100	2100	0
9/10/2024 13:22	58401	MORO_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
9/10/2024 13:22	67002	STHI_T2	9	8	-1	0.23	0.2	-0.03	0.94	0.98	0	0	0	0	0	0
9/10/2024 13:22	13503	MCMI_T2	29	32	3	0.43	0.48	0.05	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 13:23	67001	STHI_T2	4	5	1	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
9/10/2024 13:23	14603	SWHI_T1	3	2	-1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
9/10/2024 13:23	67002	STHI_T2	9	8	-1	0.23	0.2	-0.03	0.94	0.98	0	0	0	0	0	0
9/10/2024 13:23	53501	EVIL_T2	3	4	1	0.47	0.55	0.08	-0.02	-0.02	9	9	0	6300	6300	0
9/10/2024 13:23	14601	SWHI_T1	0	4	4	0	0.28	0.28	-0.03	-0.66	0	0	0	0	0	0
9/10/2024 13:23	67602	WARW_T2	1	1	0	1.3	1	-0.3	0.42	0.32	1	1	0	300	300	0
9/10/2024 13:24	15702	TANN_T2	6	6	0	0.58	0.58	0	-0.25	-0.1	0	0	0	0	0	0
9/10/2024 13:24	67602	WARW_T2	1	1	0	1.3	1	-0.3	0.42	0.32	1	1	0	300	300	0
9/10/2024 13:24	52502	PROG_T2	0	0	0	0	0	0	-0.5	-0.5	1	1	0	900	900	0
9/10/2024 13:24	67001	STHI_T2	4	5	1	0.3	0.28	-0.02	0.23	0.25	0	0	0	0	0	0
9/10/2024 13:24	67002	STHI_T2	9	8	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
9/10/2024 13:24	15703	TANN_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
9/10/2024 13:25	67602	WARW_T2	1	1	0	1.3	1	-0.3	0.42	0.32	1	1	0	300	300	0
9/10/2024 13:25	42201	SHEN_T2	2	3	1	0.8	0.53	-0.27	0.15	0.13	1	1	0	600	600	0
9/10/2024 13:26	53901	HALI_T2	3	5	2	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
9/10/2024 13:26	48301	ORWI_T1	2	2	0	3.6	3.5	-0.1	-0.03	0.02	1	1	0	900	900	0
9/10/2024 13:26	45902	AUBU_T1	2	1	-1	0.55	1.1	0.55	0	0	0	0	0	0	0	0
9/10/2024 13:26	53902	HALI_T2	3	3	0	1.83	1.93	0.1	-0.1	-0.11	0	0	0	0	0	0
9/10/2024 13:26	53901	HALI_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
9/10/2024 13:26	45901	AUBU_T1	0	0	0	0	0	0	1.72	1.72	0	0	0	0	0	0
9/10/2024 13:27	62105	ELAN_T1	1	1	0	0.5	0.5	0	0.54	0.55	0	0	0	0	0	0
9/10/2024 13:27	10805	CHHI_T2	4	2	-2	2.18	3.85	1.67	-1	-0.07	2	1	-1	1800	600	-1200
9/10/2024 13:27	67602	WARW_T2	1	1	0	1.3	1	-0.3	0.42	0.32	1	1	0	300	300	0
9/10/2024 13:27	62102	ELAN_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/10/2024 13:29	67602	WARW_T2	1	1	0	1.3	1	-0.3	0.42	0.32	1	1	0	300	300	0
9/10/2024 13:29	67503	WEWI_T2	1	1	0	8	7.9	-0.1	0.14	0.14	0	0	0	0	0	0
9/10/2024 13:29	67502	WEWI_T2	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0	0
9/10/2024 13:30	62105	ELAN_T1	1	1	0	0.5	0.4	-0.1	0.54	0.55	0	0	0	0	0	0
9/10/2024 13:30	62102	ELAN_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/10/2024 13:30	10805	CHHI_T2	2	1	-1	3.85	8.3	4.45	-1	-0.07	2	1	-1	1800	600	-1200
9/10/2024 13:31	41002	LAUR_T2	2	1	-1	0.85	1.6	0.75	0.21	0.21	0	0	0	0	0	0
9/10/2024 13:31	41001	LAUR_T2	2	2	0	1	0.85	-0.15	0	0	0	0	0	0	0	0
9/10/2024 13:32	49804	UNIV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 13:32	14402	SSLA_T1	7	16	9	0.63	0.58	-0.05	0	0	0	0	0	0	0	0
9/10/2024 13:32	14401	SSLA_T1	4	8	4	0.53	0.45	-0.08	0	0	0	0	0	0	0	0
9/10/2024 13:32	14403	SSLA_T1	5	11	6	0.84	0.6	-0.24	0	0	0	0	0	0	0	0
9/10/2024 13:32	14404	SSLA_T1	6	13	7	0.52	0.48	-0.04	0.54	0.45	0	0	0	0	0	0
9/10/2024 13:32	49803	UNIV_T1	3	2	-1	1.9	2.6	0.7	-1.98	-1.96	0	0	0	0	0	0
9/10/2024 13:33	28805	LAKE_T1	1	1	0	0.8	0.9	0.1	-0.19	-0.19	0	0	0	0	0	0
9/10/2024 13:33	28801	LAKE_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/10/2024 13:34	64101	REFR_T1	1	0	-1	0.2	0	-0.2	-0.02	-0.02	0	0	0	0	0	0
9/10/2024 13:37	64101	REFR_T1	1	0	-1	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 13:40	13905	SEID_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
9/10/2024 13:40	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 13:41	59001	MIFF_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
9/10/2024 13:41	45602	WOOL_T1	2	2	0	0.4	0.5	0.1	0.78	0.8	0	0	0	0	0	0
9/10/2024 13:41	59003	MIFF_T1	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
9/10/2024 13:43	10805	CHHI_T2	2	1	-1	3.85	8.3	4.45	-0.07	-0.11	1	1	0	600	600	0
9/10/2024 13:43	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 13:43	46205	DANV_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
9/10/2024 13:43	46203	DANV_T2	1	1	0	6.3	6.6	0.3	0.7	0.69	0	0	0	0	0	0
9/10/2024 13:43	48302	ORWI_T2	2	2	0	0.25	0.35	0.1	0.21	0.23	0	0	0	0	0	0
9/10/2024 13:44	10805	CHHI_T2	2	1	-1	3.85	8.3	4.45	-0.07	-0.11	1	1	0	600	600	0
9/10/2024 13:45	14401	SSLA_T1	7	8	1	0.49	0.51	0.02	-0.43	-0.53	0	0	0	0	0	0
9/10/2024 13:45	14402	SSLA_T1	14	21	7	0.58	0.48	-0.1	0	0	0	0	0	0	0	0
9/10/2024 13:45	14404	SSLA_T1	13	11	-2	0.45	0.52	0.07	0	0	0	0	0	0	0	0
9/10/2024 13:45	40201	BEGA_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/10/2024 13:45	14403	SSLA_T1	8	10	2	0.79	0.57	-0.22	0	0	0	0	0	0	0	0
9/10/2024 13:47	46101	MACI_T2	0	0	0	0	0	0	0.4	0.33	1	1	0	1200	1200	0
9/10/2024 13:49	51002	NHAR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 13:49	51004	NHAR_T1	2	1	-1	3.25	6.4	3.15	0.1	0.08	0	0	0	0	0	0
9/10/2024 13:49	41902	REED_T1	1	0	-1	0.1	0	-0.1	1.25	1.18	0	0	0	0	0	0
9/10/2024 13:53	41903	REED_T1	0	0	0	0	0	0	0.5	0.64	2	2	0	2400	2400	0
9/10/2024 13:53	41902	REED_T1	1	0	-1	0.1	0	-0.1	1.18	1.18	0	0	0	0	0	0
9/10/2024 13:54	48302	ORWI_T2	2	2	0	0.3	0.5	0.2	0.23	0.24	0	0	0	0	0	0
9/10/2024 13:55	42701	AUGU_T1	2	1	-1	0.6	0.9	0.3	0	0	2	2	0	1800	1800	0
9/10/2024 13:56	45602	WOOL_T1	2	4	2	0.35	0.33	-0.02	0.8	0.79	0	0	0	0	0	0
9/10/2024 13:56	48302	ORWI_T2	2	2	0	0.3	0.5	0.2	0.23	0.24	0	0	0	0	0	0
9/10/2024 13:57	60101	COCA_T1	1	1	0	0.6	0.5	-0.1	0.62	0.56	0	0	0	0	0	0
9/10/2024 13:58	42701	AUGU_T1	2	1	-1	0.6	0.9	0.3	0	0	2	2	0	1800	1800	0
9/10/2024 13:58	46802	HEPB_T1	1	0	-1	0.6	0.7	0.1	-0.12	-0.13	0	0	0	0	0	0
9/10/2024 13:58	60101	COCA_T1	1	1	0	0.6	0.5	-0.1	0.62	0.56	0	0	0	0	0	0
9/10/2024 13:59	42701	AUGU_T1	2	1	-1	0.6	0.9	0.3	0	0	2	2	0	1800	1800	0
9/10/2024 14:01	53501	EVIL_T2	4	3	-1	0.95	0.75	-0.2	-0.01	-0.01	3	3	0	2100	2100	0
9/10/2024 14:01	60101	COCA_T1	1	1	0	0.5	0.6	0.1	0.62	0.56	0	0	0	0	0	0
9/10/2024 14:01	59301	MCAL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/10/2024 14:02	66901	SHIL_T2	0	1	1	0	0.2	0.2	-1.22	-1.26	1	1	0	1200	1200	0
9/10/2024 14:02	66903	SHIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/10/2024 14:02	66902	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 14:03	46802	HEPB_T1	1	1	0	0.7	0.7	0	-0.12	-0.13	0	0	0	0	0	0
9/10/2024 14:04	59301	MCAL_T1	1	1	0	0.1	0.1	0	0	0	1	1	0	600	600	0
9/10/2024 14:05	12604	MACA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/10/2024 14:05	12601	MACA_T1	2	2	0	1.05	1.1	0.05	0	0	0	0	0	0	0	0
9/10/2024 14:05	12606	MACA_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	900	900	0
9/10/2024 14:05	59301	MCAL_T1	1	1	0	0.1	0.1	0	0	0	1	1	0	600	600	0
9/10/2024 14:05	60101	COCA_T1	1	1	0	0.5	0.6	0.1	0.62	0.56	0	0	0	0	0	0
9/10/2024 14:05	56501	ROCK_T2	1	2	1	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
9/10/2024 14:05	12602	MACA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/10/2024 14:05	56504	ROCK_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
9/10/2024 14:06	59301	MCAL_T1	1	1	0	0.1	0.1	0	0	0	2	2	0	1200	1200	0
9/10/2024 14:06	66701	STRA_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
9/10/2024 14:06	66702	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 14:06	41902	REED_T1	0	0	0	0	0	0	1.18	1.2	0	0	0	0	0	0
9/10/2024 14:07	56501	ROCK_T2	1	2	1	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
9/10/2024 14:07	56504	ROCK_T2	0	0	0	0	0	0	0.16	0.25	0	0	0	0	0	0
9/10/2024 14:08	56501	ROCK_T2	1	2	1	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
9/10/2024 14:08	56504	ROCK_T2	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
9/10/2024 14:08	66701	STRA_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
9/10/2024 14:08	66702	STRA_T1	0	0	0	0	0	0	0.33	-0.28	2	2	0	1500	1500	0
9/10/2024 14:09	66701	STRA_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
9/10/2024 14:09	66702	STRA_T1	0	0	0	0	0	0	-0.66	-0.56	4	4	0	3000	3000	0
9/10/2024 14:10	66501	SMAN_T2	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/10/2024 14:10	66502	SMAN_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/10/2024 14:10	66505	SMAN_T2	0	0	0	0	0	0	0.74	0.88	2	2	0	1500	1500	0
9/10/2024 14:11	66505	SMAN_T2	0	0	0	0	0	0	0.74	0.88	2	2	0	1500	1500	0
9/10/2024 14:11	66501	SMAN_T2	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/10/2024 14:11	66502	SMAN_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/10/2024 14:14	57403	SPAN_T1	9	6	-3	0.59	0.75	0.16	0	0	0	0	0	0	0	0
9/10/2024 14:14	57401	SPAN_T1	7	6	-1	0.84	0.95	0.11	-0.45	-0.42	1	1	0	600	600	0
9/10/2024 14:15	23901	EFMO_T2	1	1	0	0.2	0.1	-0.1	0.16	0.15	0	0	0	0	0	0
9/10/2024 14:15	23902	EFMO_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
9/10/2024 14:15	20603	GRWO_T2	0	1	1	0	0.2	0.2	-0.48	-0.47	1	1	0	900	900	0
9/10/2024 14:15	20601	GRWO_T2	4	4	0	0.65	0.78	0.13	0	0	0	0	0	0	0	0
9/10/2024 14:16	67702	WERN_T2	2	2	0	0.6	0.35	-0.25	0.74	0.78	0	0	0	0	0	0
9/10/2024 14:16	67703	WERN_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
9/10/2024 14:17	52403	GRPA_T2	47	46	-1	0.59	0.46	-0.13	0	0	0	0	0	0	0	0
9/10/2024 14:17	44802	EDAN_T2	1	1	0	0.2	0.1	-0.1	-0.48	-0.52	0	0	0	0	0	0
9/10/2024 14:17	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 14:17	44801	EDAN_T2	138	144	6	0.58	0.52	-0.06	0	0	0	0	0	0	0	0
9/10/2024 14:17	52402	GRPA_T2	10	12	2	0.35	0.45	0.1	-0.76	-0.77	0	0	0	0	0	0
9/10/2024 14:18	20603	GRWO_T2	0	1	1	0	0.2	0.2	-0.48	-0.47	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/10/2024 14:18	20601	GRWO_T2	4	4	0	0.65	0.78	0.13	0	0	0	0	0	0	0	0
9/10/2024 14:19	58402	MORO_T1	0	0	0	0	0	0	0	-0.02	2	2	0	1500	1500	0
9/10/2024 14:20	16202	POFA_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/10/2024 14:20	16204	POFA_T1	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/10/2024 14:21	16204	POFA_T1	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/10/2024 14:21	16202	POFA_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/10/2024 14:21	41902	REED_T1	0	0	0	0	0	0	1.2	1.24	0	0	0	0	0	0
9/10/2024 14:22	14702	TREX_T2	0	0	0	0	0	0	1.03	1.03	0	0	0	0	0	0
9/10/2024 14:22	14303	SUMN_T1	6	7	1	4.15	6	1.85	0	0	0	0	0	0	0	0
9/10/2024 14:22	14308	SUMN_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
9/10/2024 14:24	14702	TREX_T2	0	0	0	0	0	0	1.03	1.03	0	0	0	0	0	0
9/10/2024 14:24	45602	WOOL_T1	4	2	-2	0.33	0.3	-0.03	0.75	0.79	0	0	0	0	0	0
9/10/2024 14:25	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 14:25	14702	TREX_T2	0	0	0	0	0	0	1.03	1.03	0	0	0	0	0	0
9/10/2024 14:25	47001	HUGH_T2	4	4	0	5.5	5.58	0.08	0.07	0.07	0	0	0	0	0	0
9/10/2024 14:26	57401	SPAN_T1	4	6	2	1.13	0.95	-0.18	-0.42	-0.43	1	1	0	600	600	0
9/10/2024 14:26	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 14:26	57403	SPAN_T1	6	6	0	0.65	0.73	0.08	0	0	0	0	0	0	0	0
9/10/2024 14:27	53601	DALM_T2	1	1	0	0.2	0.1	-0.1	-0.91	-0.93	2	2	0	1800	1800	0
9/10/2024 14:29	15602	NSTR_T2	1	0	-1	0.1	0	-0.1	0.21	0.26	0	0	0	0	0	0
9/10/2024 14:29	15603	NSTR_T2	18	5	-13	0.2	0.24	0.04	0	0	0	0	0	0	0	0
9/10/2024 14:29	15601	NSTR_T2	5	4	-1	0.86	0.93	0.07	0	0	0	0	0	0	0	0
9/10/2024 14:31	40101	HUNT_T2	1	1	0	0.4	0.2	-0.2	-0.3	-0.25	0	0	0	0	0	0
9/10/2024 14:32	12403	MILF_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/10/2024 14:32	12401	MILF_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/10/2024 14:32	12402	MILF_T1	4	2	-2	0.48	0	-0.48	1.05	1.07	0	0	0	0	0	0
9/10/2024 14:33	66903	SHIL_T2	0	1	1	0	0.5	0.5	-1.3	-1.23	0	0	0	0	0	0
9/10/2024 14:33	66901	SHIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/10/2024 14:33	66902	SHIL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/10/2024 14:36	17002	RIRO_T2	2	2	0	0.95	0.85	-0.1	0.65	0.7	0	0	0	0	0	0
9/10/2024 14:36	59202	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 14:37	53501	EVIL_T2	1	2	1	0.2	0.65	0.45	-0.02	-0.02	6	6	0	3600	3600	0
9/10/2024 14:37	10801	CHHI_T1	5	3	-2	0.66	0.63	-0.03	-0.46	-0.48	1	1	0	900	900	0
9/10/2024 14:39	45602	WOOL_T1	0	3	3	0	0.43	0.43	0.79	0.77	0	0	0	0	0	0
9/10/2024 14:40	45602	WOOL_T1	0	3	3	0	0.43	0.43	0.79	0.77	0	0	0	0	0	0
9/10/2024 14:41	45602	WOOL_T1	0	3	3	0	0.43	0.43	0.79	0.77	0	0	0	0	0	0
9/10/2024 14:41	60801	BUCK_T1	0	0	0	0	0	0	-0.43	-0.42	1	1	0	600	600	0
9/10/2024 14:42	53601	DALM_T2	1	1	0	0.1	0.7	0.6	-0.47	-0.45	1	1	0	900	900	0
9/10/2024 14:42	57403	SPAN_T1	5	6	1	0.86	0.63	-0.23	0	0	0	0	0	0	0	0
9/10/2024 14:42	57401	SPAN_T1	6	5	-1	0.95	0.96	0.01	-0.43	-0.32	1	1	0	600	600	0
9/10/2024 14:44	60101	COCA_T1	1	1	0	0.6	0.4	-0.2	0.62	0.59	0	0	0	0	0	0
9/10/2024 14:45	60101	COCA_T1	1	1	0	0.4	0.1	-0.3	0.62	0.59	0	0	0	0	0	0
9/10/2024 14:47	14404	SSLA_T1	5	4	-1	0.48	0.55	0.07	0	0	0	0	0	0	0	0
9/10/2024 14:47	14402	SSLA_T1	10	11	1	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
9/10/2024 14:47	14401	SSLA_T1	6	5	-1	0.52	0.54	0.02	0	0	0	0	0	0	0	0
9/10/2024 14:47	14403	SSLA_T1	4	4	0	0.68	0.55	-0.13	0.45	0.52	0	0	0	0	0	0
9/10/2024 14:49	20603	GRWO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 14:49	20601	GRWO_T2	4	7	3	0.88	2.1	1.22	3.83	4.07	0	0	0	0	0	0
9/10/2024 14:50	13704	SCHN_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
9/10/2024 14:54	55002	NEWP_T1	8	7	-1	0.74	0.66	-0.08	0	0	0	0	0	0	0	0
9/10/2024 14:54	55001	NEWP_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/10/2024 14:57	44203	POIN_T2	0	0	0	0	0	0	-0.15	-0.06	2	2	0	2100	2100	0
9/10/2024 14:58	55002	NEWP_T1	8	7	-1	0.74	0.66	-0.08	0	0	0	0	0	0	0	0
9/10/2024 14:58	42201	SHEN_T2	2	2	0	1	1.15	0.15	0.17	0.2	1	1	0	600	600	0
9/10/2024 14:58	55001	NEWP_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/10/2024 15:01	20601	GRWO_T2	5	3	-2	0.62	1	0.38	1.36	1.27	0	0	0	0	0	0
9/10/2024 15:04	65901	SMIR_T2	1	1	0	7.3	7.3	0	-0.38	-0.36	1	1	0	600	600	0
9/10/2024 15:04	53501	EVIL_T2	2	3	1	0.65	0.73	0.08	-0.01	-0.01	2	2	0	1200	1200	0
9/10/2024 15:05	43108	SMIL_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
9/10/2024 15:05	43102	SMIL_T2	1	0	-1	1.6	0	-1.6	0	0	0	0	0	0	0	0
9/10/2024 15:05	43104	SMIL_T2	1	1	0	0.2	0.3	0.1	-0.64	-0.63	1	1	0	300	300	0
9/10/2024 15:05	43106	SMIL_T2	1	0	-1	2.3	0	-2.3	0	0	0	0	0	0	0	0
9/10/2024 15:05	43101	SMIL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/10/2024 15:05	43105	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 15:05	43103	SMIL_T2	3	5	2	0.27	0.42	0.15	0	0	0	0	0	0	0	0
9/10/2024 15:07	53501	EVIL_T2	2	3	1	0.65	0.73	0.08	-0.01	-0.01	2	3	1	1200	2100	900
9/10/2024 15:08	53501	EVIL_T2	2	3	1	0.65	0.73	0.08	-0.01	-0.01	4	6	2	2400	4200	1800
9/10/2024 15:09	53501	EVIL_T2	2	3	1	0.65	0.73	0.08	-0.01	-0.01	2	3	1	1200	2100	900
9/10/2024 15:09	41902	REED_T1	0	0	0	0	0	0	1.22	1.25	0	0	0	0	0	0
9/10/2024 15:11	45602	WOOL_T1	2	2	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
9/10/2024 15:11	45601	WOOL_T1	0	0	0	0	0	0	-0.02	-0.05	1	1	0	1200	1200	0
9/10/2024 15:17	25402	LAHA_T2	2	2	0	0.45	0.35	-0.1	-0.23	-0.27	0	0	0	0	0	0
9/10/2024 15:18	40101	HUNT_T2	1	1	0	0.4	0	-0.4	-0.23	-0.25	0	0	0	0	0	0
9/10/2024 15:18	42902	MIDD_T2	1	2	1	0.8	0.8	0	0	0	0	0	0	0	0	0
9/10/2024 15:18	13503	MCMI_T2	4	4	0	0.68	0.58	-0.1	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 15:18	42903	MIDD_T2	0	0	0	0	0	0	0.83	0.9	1	1	0	1200	1200	0
9/10/2024 15:19	13502	MCMI_T1	1	3	2	0.3	0.3	0	0	0	0	0	0	0	0	0
9/10/2024 15:20	47502	NECO_T1	1	3	2	0.2	0.27	0.07	1.04	1.2	0	0	0	0	0	0
9/10/2024 15:21	13503	MCMI_T2	4	4	0	0.68	0.58	-0.1	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 15:23	44301	BEAV_T2	0	1	1	0	0.2	0.2	0.71	0.62	1	1	0	600	600	0
9/10/2024 15:24	24602	VARD_T2	2	3	1	0.85	0.6	-0.25	0	0	0	0	0	0	0	0
9/10/2024 15:24	24603	VARD_T2	8	5	-3	0.79	0.82	0.03	0	0	0	0	0	0	0	0
9/10/2024 15:26	40802	EXCH_T2	1	1	0	0.8	0.7	-0.1	-0.36	-0.35	0	0	0	0	0	0
9/10/2024 15:26	64204	KINZ_T1	1	1	0	0.5	1.2	0.7	0	0	0	0	0	0	0	0
9/10/2024 15:26	64203	KINZ_T1	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/10/2024 15:26	64202	KINZ_T1	0	0	0	0	0	0	1.28	1.24	0	0	0	0	0	0
9/10/2024 15:27	61506	EPET_T2	0	0	0	0	0	0	-1.33	-1.27	2	2	0	1800	1800	0
9/10/2024 15:27	61501	EPET_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
9/10/2024 15:27	23202	HIRU_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
9/10/2024 15:27	61504	EPET_T2	1	0	-1	1.9	0	-1.9	0	0	0	0	0	0	0	0
9/10/2024 15:28	40801	EXCH_T2	0	0	0	0	0	0	-0.21	-0.24	1	1	0	1200	1200	0
9/10/2024 15:28	40802	EXCH_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
9/10/2024 15:28	51604	DUKE_T2	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
9/10/2024 15:30	46401	FLEM_T2	10	8	-2	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
9/10/2024 15:30	46402	FLEM_T2	3	0	-3	0.2	0	-0.2	0.27	0.31	0	0	0	0	0	0
9/10/2024 15:31	52004	LING_T2	3	2	-1	3.47	5	1.53	0.38	0.31	0	0	0	0	0	0
9/10/2024 15:32	52004	LING_T2	3	2	-1	3.47	5	1.53	0.38	0.31	0	0	0	0	0	0
9/10/2024 15:32	51402	LYKE_T1	0	2	2	0	0.25	0.25	-1.94	-2.03	2	2	0	1200	1200	0
9/10/2024 15:35	40802	EXCH_T2	1	1	0	0.6	0.7	0.1	-0.18	-0.17	0	0	0	0	0	0
9/10/2024 15:39	28701	HAML_T2	2	2	0	0.85	0.65	-0.2	0	0	0	0	0	0	0	0
9/10/2024 15:39	28704	HAML_T2	1	1	0	0.5	0.5	0	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 15:40	47403	PENS_T1	2	2	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
9/10/2024 15:40	55101	WERT_T1	0	0	0	0	0	0	-1.71	-1.78	4	4	0	3300	3300	0
9/10/2024 15:40	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 15:40	47401	PENS_T1	2	3	1	0.45	0.7	0.25	0.84	0.95	0	0	0	0	0	0
9/10/2024 15:40	44301	BEAV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/10/2024 15:40	60701	BREC_T1	0	1	1	0	0.2	0.2	-1.44	-0.49	4	2	-2	2400	1200	-1200
9/10/2024 15:41	44301	BEAV_T2	1	0	-1	0.2	0	-0.2	0.62	0.24	1	1	0	600	600	0
9/10/2024 15:41	55101	WERT_T1	0	0	0	0	0	0	-1.71	-1.78	4	4	0	3300	3300	0
9/10/2024 15:42	55101	WERT_T1	0	0	0	0	0	0	-3.41	-3.55	8	8	0	6600	6600	0
9/10/2024 15:42	60701	BREC_T1	0	1	1	0	0.2	0.2	-1.44	-0.49	4	2	-2	2400	1200	-1200
9/10/2024 15:43	44301	BEAV_T2	1	0	-1	0.2	0	-0.2	0.62	0.24	1	1	0	600	600	0
9/10/2024 15:43	47401	PENS_T1	2	3	1	0.45	0.7	0.25	0.84	0.95	0	0	0	0	0	0
9/10/2024 15:43	47403	PENS_T1	2	2	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
9/10/2024 15:43	55101	WERT_T1	0	0	0	0	0	0	-1.71	-1.78	4	4	0	3300	3300	0
9/10/2024 15:43	60701	BREC_T1	0	1	1	0	0.2	0.2	-0.72	-0.24	2	1	-1	1200	600	-600
9/10/2024 15:44	55101	WERT_T1	0	0	0	0	0	0	-1.71	-1.78	4	4	0	3300	3300	0
9/10/2024 15:46	46903	MNTG_T2	7	8	1	0.6	0.49	-0.11	0.14	0.15	1	1	0	600	600	0
9/10/2024 15:48	46901	MNTG_T2	0	0	0	0	0	0	0.42	0.43	1	1	0	1200	1200	0
9/10/2024 15:48	46903	MNTG_T2	7	8	1	0.6	0.49	-0.11	0	0	0	0	0	0	0	0
9/10/2024 15:51	41902	REED_T1	0	1	1	0	0	0	1.25	1.21	0	0	0	0	0	0
9/10/2024 15:52	52403	GRPA_T2	2	2	0	1.35	1.6	0.25	0.13	0.21	0	0	0	0	0	0
9/10/2024 15:52	52402	GRPA_T2	4	3	-1	0.4	0.53	0.13	0	0	0	0	0	0	0	0
9/10/2024 15:54	46205	DANV_T2	0	0	0	0	0	0	0.38	-0.51	1	1	0	1200	1200	0
9/10/2024 15:54	46206	DANV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 15:54	46203	DANV_T2	1	1	0	5.4	7.2	1.8	0	0	0	0	0	0	0	0
9/10/2024 15:57	67503	WEWI_T2	1	1	0	7	7	0	0	0	0	0	0	0	0	0
9/10/2024 15:57	67502	WEWI_T2	1	3	2	0.6	0.43	-0.17	-1.02	-0.93	1	1	0	900	900	0
9/10/2024 16:01	67502	WEWI_T2	3	3	0	0.37	0.43	0.06	0	0	0	0	0	0	0	0
9/10/2024 16:01	67503	WEWI_T2	1	1	0	6.9	7	0.1	0.27	0.28	0	0	0	0	0	0
9/10/2024 16:04	13704	SCHN_T2	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
9/10/2024 16:04	65701	RVIL_T1	0	0	0	0	0	0	-0.8	-0.7	0	0	0	0	0	0
9/10/2024 16:05	65701	RVIL_T1	0	0	0	0	0	0	-1.59	-1.4	0	0	0	0	0	0
9/10/2024 16:05	64101	REFR_T1	0	4	4	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 16:07	64101	REFR_T1	0	4	4	0	0	0	-0.02	-0.02	0	0	0	0	0	0
9/10/2024 16:07	65701	RVIL_T1	0	0	0	0	0	0	-0.7	-0.73	0	0	0	0	0	0
9/10/2024 16:09	64101	REFR_T1	0	4	4	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 16:09	65701	RVIL_T1	0	0	0	0	0	0	-0.7	-0.73	0	0	0	0	0	0
9/10/2024 16:11	44301	BEAV_T2	0	0	0	0	0	0	0.19	0.79	1	1	0	600	600	0
9/10/2024 16:12	14402	SSLA_T1	7	5	-2	0.4	0.42	0.02	0	0	0	0	0	0	0	0
9/10/2024 16:12	14403	SSLA_T1	2	1	-1	0.35	0.1	-0.25	0.49	0.47	0	0	0	0	0	0
9/10/2024 16:12	44301	BEAV_T2	0	0	0	0	0	0	0.19	0.79	1	1	0	600	600	0
9/10/2024 16:12	14404	SSLA_T1	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/10/2024 16:12	14401	SSLA_T1	3	2	-1	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
9/10/2024 16:14	63501	HEID_TBK1-2	47	47	0	0.7	0.59	-0.11	-0.04	-0.08	1	1	0	900	900	0
9/10/2024 16:14	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 16:15	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 16:15	55002	NEWP_T1	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
9/10/2024 16:16	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
9/10/2024 16:18	64201	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 16:18	64203	KINZ_T1	0	0	0	0	0	0	-0.32	-0.37	3	3	0	2100	2100	0
9/10/2024 16:18	64204	KINZ_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
9/10/2024 16:19	13501	MCMI_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
9/10/2024 16:22	64204	KINZ_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
9/10/2024 16:22	64203	KINZ_T1	0	0	0	0	0	0	-0.37	-0.51	3	3	0	2100	2100	0
9/10/2024 16:22	64201	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 16:26	10602	BLGL_T2	1	1	0	0.2	0.2	0	0.41	0.39	0	0	0	0	0	0
9/10/2024 16:28	67502	WEWI_T2	3	3	0	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
9/10/2024 16:28	67503	WEWI_T2	1	1	0	7	6.7	-0.3	0.3	0.29	0	0	0	0	0	0
9/10/2024 16:30	44801	EDAN_T2	80	91	11	0.4	0.3	-0.1	-2.83	-2.82	0	0	0	0	0	0
9/10/2024 16:31	44801	EDAN_T2	80	91	11	0.4	0.3	-0.1	-1.41	-1.41	0	0	0	0	0	0
9/10/2024 16:38	64101	REFR_T1	0	4	4	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 16:39	47402	PENS_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/10/2024 16:39	47401	PENS_T1	2	2	0	0.5	0.35	-0.15	0.92	0.89	0	0	0	0	0	0
9/10/2024 16:42	65001	NEFF_T2	0	0	0	0	0	0	-0.35	-0.34	1	1	0	1200	1200	0
9/10/2024 16:43	65001	NEFF_T2	0	0	0	0	0	0	-0.35	-0.34	1	1	0	1200	1200	0
9/10/2024 16:52	12701	MACU_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
9/10/2024 16:57	42501	ALTA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 16:57	42503	ALTA_T2	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
9/10/2024 16:59	53601	DALM_T2	1	1	0	0.7	0.5	-0.2	0.04	0.03	0	0	0	0	0	0
9/10/2024 17:00	46801	HEPB_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
9/10/2024 17:00	46803	HEPB_T2	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
9/10/2024 17:02	62607	ENGL_T1	0	0	0	0	0	0	-0.73	-0.76	1	1	0	300	300	0
9/10/2024 17:07	12701	MACU_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
9/10/2024 17:08	15601	NSTR_T2	3	3	0	0.53	0.57	0.04	0	0	0	0	0	0	0	0
9/10/2024 17:08	15603	NSTR_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
9/10/2024 17:14	21501	CEAV_T2	0	0	0	0	0	0	0.41	0.33	1	1	0	1200	1200	0
9/10/2024 17:15	48902	FOSP_T2	0	0	0	0	0	0	0.19	0.15	0	0	0	0	0	0
9/10/2024 17:16	46101	MACJ_T2	0	0	0	0	0	0	-0.54	-0.58	1	1	0	1200	1200	0
9/10/2024 17:18	61303	EARL_T1	0	1	1	0	0.8	0.8	0.95	0.42	0	0	0	0	0	0
9/10/2024 17:22	46302	ROHR_T1	2	4	2	0.85	0.58	-0.27	0.19	0.2	0	0	0	0	0	0
9/10/2024 17:22	46301	ROHR_T1	1	1	0	5.5	5.8	0.3	0	0	0	0	0	0	0	0
9/10/2024 17:23	60803	BUCK_T1	0	0	0	0	0	0	-0.35	-0.3	1	1	0	600	600	0
9/10/2024 17:33	57401	SPAN_T1	0	2	2	0	0.3	0.3	-0.24	-0.33	1	1	0	600	600	0
9/10/2024 17:35	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
9/10/2024 17:39	10602	BLGL_T2	0	0	0	0	0	0	0.43	0.46	0	0	0	0	0	0
9/10/2024 17:39	66701	STRA_T1	0	0	0	0	0	0	0.59	0.51	2	2	0	1200	1200	0
9/10/2024 17:40	49803	UNIV_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
9/10/2024 17:40	49804	UNIV_T1	0	0	0	0	0	0	0.96	1.08	0	0	0	0	0	0
9/10/2024 17:40	41901	REED_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/10/2024 17:40	41903	REED_T1	0	0	0	0	0	0	0.14	0.19	1	1	0	1200	1200	0
9/10/2024 17:40	41902	REED_T1	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/10/2024 17:43	49804	UNIV_T1	0	0	0	0	0	0	0.96	1.08	0	0	0	0	0	0
9/10/2024 17:43	49803	UNIV_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
9/10/2024 17:43	45501	DERR_T2	1	1	0	0.1	0	-0.1	0.73	0.72	2	2	0	1800	1800	0
9/10/2024 17:44	65207	PRIN_T4	1	1	0	0.5	0.8	0.3	0	0	2	2	0	1800	1800	0
9/10/2024 17:44	65206	PRIN_T4	1	0	-1	6	0	-6	0	0	0	0	0	0	0	0
9/10/2024 17:52	65802	RTWN_T2	0	0	0	0	0	0	0.17	0.13	0	0	0	0	0	0
9/10/2024 17:52	65803	RTWN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 17:57	64204	KINZ_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
9/10/2024 17:57	64201	KINZ_T1	0	0	0	0	0	0	-0.44	-0.53	3	3	0	1500	1500	0
9/10/2024 17:59	59003	MIFF_T1	0	1	1	0	0.2	0.2	-0.35	-0.23	0	0	0	0	0	0
9/10/2024 17:59	63501	HEID_TBK1-2	48	49	1	0.88	0.62	-0.26	0.12	0.05	1	1	0	900	900	0
9/10/2024 17:59	59002	MIFF_T1	5	5	0	0.4	0.54	0.14	0	0	0	0	0	0	0	0
9/10/2024 17:59	65205	PRIN_T1	1	1	0	1.6	2.1	0.5	0	0	0	0	0	0	0	0
9/10/2024 17:59	65202	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 18:00	46402	FLEM_T2	0	20	20	0	0.28	0.28	0	0	0	0	0	0	0	0
9/10/2024 18:00	55002	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 18:00	46401	FLEM_T2	0	25	25	0	0.17	0.17	-0.16	-0.16	0	0	0	0	0	0
9/10/2024 18:00	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 18:01	54506	ENOL_T2	0	0	0	0	0	0	-0.36	-0.37	1	1	0	600	600	0
9/10/2024 18:01	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 18:01	10705	CATA_T2	0	0	0	0	0	0	-1.65	-1.67	0	0	0	0	0	0
9/10/2024 18:01	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 18:04	46102	MACJ_T1	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
9/10/2024 18:07	65502	MOJO_T2	0	0	0	0	0	0	-0.67	-0.84	1	1	0	900	900	0
9/10/2024 18:08	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 18:08	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 18:08	56501	ROCK_T2	0	3	3	0	0.15	0.15	-1.02	-1	0	0	0	0	0	0
9/10/2024 18:09	56501	ROCK_T2	0	3	3	0	0.15	0.15	-1.02	-1	0	0	0	0	0	0
9/10/2024 18:10	54203	PENN_T1	5	18	13	0.7	0.62	-0.08	0	0	0	0	0	0	0	0
9/10/2024 18:10	54201	PENN_T1	4	7	3	0.63	0.87	0.24	-0.67	-0.66	0	0	0	0	0	0
9/10/2024 18:11	56501	ROCK_T2	0	3	3	0	0.15	0.15	-1.02	-1	0	0	0	0	0	0
9/10/2024 18:12	67805	WLAN_T1	0	0	0	0	0	0	-1.05	-1.09	0	0	0	0	0	0
9/10/2024 18:12	40802	MOH_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
9/10/2024 18:14	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 18:21	12006	HATF_T1	0	0	0	0	0	0	-0.11	-0.22	2	2	0	2400	2400	0
9/10/2024 18:21	12002	HATF_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/10/2024 18:27	67505	WEWI_T1	0	0	0	0	0	0	0.34	0.34	1	1	0	900	900	0
9/10/2024 18:27	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 18:27	66502	SMAN_T2	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
9/10/2024 18:30	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/10/2024 18:30	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 18:30	24701	FLND_T2	1	0	-1	8.2	0	-8.2	0	0	0	0	0	0	0	0
9/10/2024 18:30	40502	CRES_T2	2	8	6	0.2	0.14	-0.06	-0.07	-0.11	0	0	0	0	0	0
9/10/2024 18:30	56501	ROCK_T2	3	3	0	0.27	0.5	0.23	0	0	0	0	0	0	0	0
9/10/2024 18:30	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 18:30	56504	ROCK_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
9/10/2024 18:30	40901	JESH_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
9/10/2024 18:32	66502	SMAN_T2	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
9/10/2024 18:32	40504	CRES_T1	0	0	0	0	0	0	-1.53	-1.55	0	0	0	0	0	0
9/10/2024 18:32	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 18:33	65501	MOJO_T1	0	0	0	0	0	0	-0.84	-0.91	1	1	0	900	900	0
9/10/2024 18:37	66502	SMAN_T2	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
9/10/2024 18:37	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 18:50	57203	ROSS_T1	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
9/10/2024 18:56	55101	WERT_T1	0	0	0	0	0	0	-1.42	-1.51	3	3	0	2400	2400	0
9/10/2024 20:09	42801	SELI_T1	0	0	0	0	0	0	-0.96	-0.94	1	1	0	1200	1200	0
9/10/2024 20:09	59402	RFLD_T2	0	0	0	0	0	0	-0.81	-0.8	1	1	0	450	450	0
9/10/2024 20:10	59402	RFLD_T2	0	0	0	0	0	0	-0.81	-0.8	1	1	0	450	450	0
9/10/2024 20:15	42302	MOWR_T2	0	0	0	0	0	0	0.6	0.54	0	0	0	0	0	0
9/10/2024 20:17	45801	HEGI_T1	0	0	0	0	0	0	-0.1	-0.02	1	1	0	900	900	0
9/10/2024 20:19	16402	MOPO_T1	0	0	0	0	0	0	0.7	0.71	0	0	0	0	0	0
9/10/2024 20:19	55508	HERS_T2	2	2	0	1.4	1.6	0.2	2.42	2.39	1	1	0	1200	1200	0
9/10/2024 20:20	11405	FARM_T1	1	1	0	4.7	4.4	-0.3	0	0	0	0	0	0	0	0
9/10/2024 20:20	11407	FARM_T1	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
9/10/2024 20:33	51604	DUKE_T2	1	0	-1	1	0	-1	-0.72	-0.81	0	0	0	0	0	0
9/10/2024 20:37	63602	LETO_T1	0	11	11	0	0.11	0.11	-0.15	-0.11	0	0	0	0	0	0
9/10/2024 20:43	66505	SMAN_T2	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
9/10/2024 20:43	66504	SMAN_T2	0	0	0	0	0	0	-1.27	-0.19	1	0	-1	1200	0	-1200
9/10/2024 20:47	11504	FREE_T1	0	0	0	0	0	0	-2.1	-2.34	2	2	0	2100	2100	0
9/10/2024 20:47	66504	SMAN_T2	0	0	0	0	0	0	-2.55	-0.39	2	0	-2	2400	0	-2400
9/10/2024 20:47	66505	SMAN_T2	3	3	0	0.2	0.57	0.37	0	0	0	0	0	0	0	0
9/10/2024 20:52	25603	ARRO_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
9/10/2024 20:52	13704	SOHN_T2	1	35	34	0.1	0.22	0.12	0.61	0.22	0	0	0	0	0	0
9/10/2024 20:56	53903	HALI_T2	2	2	0	1.45	1.7	0.25	0	0	0	0	0	0	0	0
9/10/2024 20:56	53902	HALI_T2	1	1	0	4.8	5.6	0.8	0	0	0	0	0	0	0	0
9/10/2024 20:56	53901	HALI_T2	1	2	1	1	0.75	-0.25	-1.19	-1.19	0	0	0	0	0	0
9/10/2024 20:57	53901	HALI_T2	1	2	1	1	0.75	-0.25	-1.19	-1.19	0	0	0	0	0	0
9/10/2024 20:57	53902	HALI_T2	1	1	0	4.8	5.6	0.8	0	0	0	0	0	0	0	0
9/10/2024 20:57	53903	HALI_T2	2	2	0	1.45	1.7	0.25	0	0	0	0	0	0	0	0
9/10/2024 20:58	53901	HALI_T2	1	2	1	1	0.75	-0.25	-3.58	-3.57	0	0	0	0	0	0
9/10/2024 20:58	53903	HALI_T2	2	2	0	1.45	1.7	0.25	-0.06	-0.07	0	0	0	0	0	0
9/10/2024 20:58	53902	HALI_T2	1	1	0	4.8	5.6	0.8	0	0	0	0	0	0	0	0
9/10/2024 20:59	53902	HALI_T2	1	1	0	4.8	5.6	0.8	0	0	0	0	0	0	0	0
9/10/2024 20:59	53901	HALI_T2	1	2	1	1	0.75	-0.25	-5.97	-5.95	0	0	0	0	0	0
9/10/2024 20:59	53903	HALI_T2	2	2	0	1.45	1.7	0.25	0	0	0	0	0	0	0	0
9/10/2024 21:00	53901	HALI_T2	1	5	4	1	0.5	-0.5	-3.58	-3.57	0	0	0	0	0	0
9/10/2024 21:00	53903	HALI_T2	2	2	0	1.4	1.85	0.45	0	0	0	0	0	0	0	0
9/10/2024 21:00	53902	HALI_T2	1	1	0	5	5.8	0.8	0	0	0	0	0	0	0	0
9/10/2024 21:03	44801	EDAN_T2	62	187	125	0.36	0.45	0.09	-1.58	-1.59	0	0	0	0	0	0
9/10/2024 21:07	14303	SUMN_T1	3	3	0	6.6	6.37	-0.23	0	0	0	0	0	0	0	0
9/10/2024 21:07	14307	SUMN_T1	0	0	0	0	0	0	-0.21	-0.21	1	1	0	900	900	0
9/10/2024 21:09	23203	HIRU_T2	0	7	7	0	0.14	0.14	0	0	0	0	0	0	0	0
9/10/2024 21:09	23201	HIRU_T2	1	4	3	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/10/2024 21:09	23202	HIRU_T2	0	3	3	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0
9/10/2024 21:10	17002	RIRO_T2	0	21	21	0	0.12	0.12	0.45	0.41	0	0	0	0	0	0
9/10/2024 21:10	28703	HAML_T2	3	3	0	0.57	0.63	0.06	0	0	0	0	0	0	0	0
9/10/2024 21:10	28704	HAML_T2	3	28	25	0.37	0.16	-0.21	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 21:10	28702	HAML_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 21:10	12606	MACA_T1	0	0	0	0	0	0	-0.14	-0.16	1	1	0	900	900	0
9/10/2024 21:11	25603	ARRO_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
9/10/2024 21:11	12402	MILF_T1	1	1	0	3.3	0.8	-2.5	0.8	0.77	0	0	0	0	0	0
9/10/2024 21:11	10602	BLGL_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
9/10/2024 21:11	12403	MILF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:12	46002	BERW_T2	0	0	0	0	0	0	0.01	-0.02	0	0	0	0	0	0
9/10/2024 21:12	22405	MORG_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
9/10/2024 21:12	22401	MORG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:12	24501	GOUL_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
9/10/2024 21:12	64903	MILL_T2	0	0	0	0	0	0	0.34	0.3	0	0	0	0	0	0
9/10/2024 21:13	14301	SUMN_T1	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
9/10/2024 21:13	14303	SUMN_T1	3	3	0	6.6	6.37	-0.23	0	0	0	0	0	0	0	0
9/10/2024 21:13	16101	BING_T2	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
9/10/2024 21:14	12801	MICK_T1	0	0	0	0	0	0	-0.19	-0.26	0	0	0	0	0	0
9/10/2024 21:14	15702	TANN_T2	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
9/10/2024 21:14	20603	GRWO_T2	0	0	0	0	0	0	-0.62	0.37	1	0	-1	900	0	-900
9/10/2024 21:14	13905	SEID_T1	0	0	0	0	0	0	-0.89	-0.92	1	1	0	1200	1200	0
9/10/2024 21:14	12807	MICK_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/10/2024 21:14	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:14	62604	ENGL_T1	0	2	2	0	0.15	0.15	-0.72	-0.75	1	1	0	600	600	0
9/10/2024 21:14	20601	GRWO_T2	0	0	0	0	0	0	0.74	0.7	0	0	0	0	0	0
9/10/2024 21:15	15601	NSTR_T2	3	3	0	0.8	0.83	0.03	0	0	0	0	0	0	0	0
9/10/2024 21:15	43402	BENT_T1	0	0	0	0	0	0	-0.64	-0.63	1	1	0	600	600	0
9/10/2024 21:15	13005	NBET_T2	0	0	0	0	0	0	-0.63	-0.65	1	1	0	1200	1200	0
9/10/2024 21:15	14801	TREI_T2	5	0	-5	0.13	0	-0.13	0	0	0	0	0	0	0	0
9/10/2024 21:15	25402	LAHA_T2	1	1	0	0.2	0.1	-0.1	-0.92	-0.93	0	0	0	0	0	0
9/10/2024 21:15	45901	AUBU_T1	0	0	0	0	0	0	1.77	1.78	0	0	0	0	0	0
9/10/2024 21:15	15603	NSTR_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
9/10/2024 21:15	45902	AUBU_T1	1	7	6	0	0.21	0.21	0	0	0	0	0	0	0	0
9/10/2024 21:15	14702	TREX_T2	0	0	0	0	0	0	0.89	0.85	0	0	0	0	0	0
9/10/2024 21:15	63602	LETO_T1	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
9/10/2024 21:15	61303	EARL_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
9/10/2024 21:15	44502	HAMI_T2	1	1	0	3	3.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:15	14802	TREI_T2	2	0	-2	0.1	0	-0.1	0.52	0.46	0	0	0	0	0	0
9/10/2024 21:15	25404	LAHA_T2	157	75	-82	0.13	0.13	0	0	0	0	0	0	0	0	0
9/10/2024 21:15	44503	HAMI_T2	0	0	0	0	0	0	-1.18	-1.19	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/10/2024 21:15	10805	CHHI_T2	1	1	0	7.6	8	0.4	-0.9	-0.77	1	1	0	600	600	0
9/10/2024 21:16	11901	ETEX_T2	0	0	0	0	0	0	0.49	0.44	0	0	0	0	0	0
9/10/2024 21:16	16402	MOPO_T1	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
9/10/2024 21:16	44802	EDAN_T2	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
9/10/2024 21:16	11104	EGYP_T1	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
9/10/2024 21:16	46102	MACI_T1	0	0	0	0	0	0	0.79	0.77	0	0	0	0	0	0
9/10/2024 21:16	44801	EDAN_T2	114	210	96	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:16	28805	LAKE_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
9/10/2024 21:16	45902	AUBU_T1	1	7	6	0	0.21	0.21	-1.03	-0.97	1	1	0	600	600	0
9/10/2024 21:16	15703	TANN_T2	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:16	15702	TANN_T2	0	2	2	0	0.1	0.1	-0.37	-0.38	0	0	0	0	0	0
9/10/2024 21:16	14601	SWHI_T1	0	0	0	0	0	0	-1.44	-1.49	0	0	0	0	0	0
9/10/2024 21:17	42601	TUSC_T1	1	1	0	0.1	0.1	0	-0.52	-0.45	2	2	0	1800	1800	0
9/10/2024 21:17	14601	SWHI_T1	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
9/10/2024 21:17	42002	MNVL_T2	1	1	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:17	57403	SPAN_T1	59	82	23	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
9/10/2024 21:17	14401	SSLA_T1	5	0	-5	0.16	0	-0.16	-0.47	-0.49	0	0	0	0	0	0
9/10/2024 21:17	14301	SUMN_T1	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
9/10/2024 21:17	14308	SUMN_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
9/10/2024 21:17	48302	ORWI_T2	2	2	0	1.3	1.45	0.15	0	0	0	0	0	0	0	0
9/10/2024 21:17	14303	SUMN_T1	3	3	0	6.37	6.3	-0.07	0	0	0	0	0	0	0	0
9/10/2024 21:17	57401	SPAN_T1	85	237	152	0.21	0.25	0.04	-0.56	-0.62	1	1	0	600	600	0
9/10/2024 21:17	14404	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:17	14402	SSLA_T1	81	0	-81	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/10/2024 21:17	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:17	42001	MNVL_T2	176	244	68	0.44	0.7	0.26	-0.22	-0.23	0	0	0	0	0	0
9/10/2024 21:18	43103	SMIL_T2	10	19	9	0.38	0.61	0.23	-0.79	-0.84	0	0	0	0	0	0
9/10/2024 21:18	40802	EXCH_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
9/10/2024 21:18	41205	KENM_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
9/10/2024 21:18	14602	SWHI_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
9/10/2024 21:18	43108	SMIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
9/10/2024 21:18	10805	CHHI_T2	1	1	0	7.6	8	0.4	-0.9	-0.77	1	1	0	600	600	0
9/10/2024 21:18	12604	MACA_T1	0	0	0	0	0	0	0.4	0.35	0	0	0	0	0	0
9/10/2024 21:18	41202	KENM_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/10/2024 21:18	28702	HAML_T2	0	1	1	0	0.2	0.2	0.18	0.17	0	0	0	0	0	0
9/10/2024 21:18	13503	MCMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:18	28703	HAML_T2	3	3	0	0.37	0.8	0.43	0	0	0	0	0	0	0	0
9/10/2024 21:18	45901	AUBU_T1	0	0	0	0	0	0	1.77	1.78	0	0	0	0	0	0
9/10/2024 21:18	48301	ORWI_T1	2	2	0	5.6	5.7	0.1	-0.43	-0.41	1	1	0	900	900	0
9/10/2024 21:18	20601	GRMO_T2	0	0	0	0	0	0	2.22	2.1	0	0	0	0	0	0
9/10/2024 21:18	43105	SMIL_T2	13	16	3	0.15	0.24	0.09	0	0	0	0	0	0	0	0
9/10/2024 21:18	43102	SMIL_T2	9	9	0	0.52	0.66	0.14	0	0	0	0	0	0	0	0
9/10/2024 21:18	45902	AUBU_T1	1	7	6	0	0.21	0.21	-1.03	-0.97	1	1	0	600	600	0
9/10/2024 21:18	28704	HAML_T2	7	28	21	0.26	0.16	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:18	47401	PENS_T1	0	0	0	0	0	0	0.59	0.54	0	0	0	0	0	0
9/10/2024 21:18	40101	HUNT_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
9/10/2024 21:18	16102	BING_T2	0	0	0	0	0	0	1.11	1.02	0	0	0	0	0	0
9/10/2024 21:18	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:18	13501	MCMI_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
9/10/2024 21:18	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:19	14402	SSLA_T1	81	0	-81	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/10/2024 21:19	60701	BREC_T1	64	0	-64	0.13	0	-0.13	-0.43	-0.49	1	1	0	600	600	0
9/10/2024 21:19	14404	SSLA_T1	1	0	-1	0.1	0	-0.1	0.08	0.2	0	0	0	0	0	0
9/10/2024 21:19	44702	MUNC_T2	117	136	19	0.35	0.35	0	0	0	0	0	0	0	0	0
9/10/2024 21:19	15703	TANN_T2	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:19	14307	SUMN_T1	0	0	0	0	0	0	-0.21	-0.21	1	1	0	900	900	0
9/10/2024 21:19	14201	EALL_T1	0	0	0	0	0	0	0.79	0.66	0	0	0	0	0	0
9/10/2024 21:19	67503	WEWI_T2	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
9/10/2024 21:19	12701	MACU_T1	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
9/10/2024 21:19	15702	TANN_T2	0	2	2	0	0.1	0.1	-0.37	-0.38	0	0	0	0	0	0
9/10/2024 21:19	67605	WARW_T1	18	24	6	0.58	0.58	0	0	0	0	0	0	0	0	0
9/10/2024 21:19	40101	HUNT_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
9/10/2024 21:19	14401	SSLA_T1	5	0	-5	0.16	0	-0.16	0	0	0	0	0	0	0	0
9/10/2024 21:19	46203	DANV_T2	1	1	0	8.4	9	0.6	0	0	0	0	0	0	0	0
9/10/2024 21:19	14203	EALL_T1	0	0	0	0	0	0	-0.26	-0.28	1	1	0	1200	1200	0
9/10/2024 21:19	66902	SHIL_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:19	66703	STRA_T1	5	3	-2	0.34	0.27	-0.07	0	0	0	0	0	0	0	0
9/10/2024 21:19	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:19	67502	WEWI_T2	1	42	41	0.1	0.14	0.04	-0.25	-0.19	0	0	0	0	0	0
9/10/2024 21:19	22905	HARW_T1	0	0	0	0	0	0	-0.65	-0.69	0	0	0	0	0	0
9/10/2024 21:19	42601	TUSC_T1	1	1	0	0.1	0.1	0	-0.52	-0.45	2	2	0	1800	1800	0
9/10/2024 21:19	66901	SHIL_T2	157	143	-14	0.18	0.18	0	0	0	0	0	0	0	0	0
9/10/2024 21:19	14603	SWHI_T1	0	0	0	0	0	0	-0.78	-0.85	1	1	0	600	600	0
9/10/2024 21:19	29202	APPE_T1	72	109	37	0.19	0.33	0.14	0	0	0	0	0	0	0	0
9/10/2024 21:19	42802	SELI_T1	1	0	-1	0.9	0	-0.9	-1.14	-0.28	1	0	-1	900	0	-900
9/10/2024 21:19	66701	STRA_T1	0	0	0	0	0	0	0.71	0.68	0	0	0	0	0	0
9/10/2024 21:19	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:19	46206	DANV_T2	0	0	0	0	0	0	1.42	1.41	2	2	0	2100	2100	0
9/10/2024 21:19	66903	SHIL_T2	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
9/10/2024 21:19	44701	MUNC_T2	126	119	-7	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
9/10/2024 21:19	49803	UNIV_T1	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
9/10/2024 21:19	14303	SUMN_T1	3	3	0	6.37	6.3	-0.07	0	0	0	0	0	0	0	0
9/10/2024 21:19	44703	MUNC_T2	2	2	0	1.1	1.25	0.15	0	0	0	0	0	0	0	0
9/10/2024 21:19	67603	WARW_T1	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
9/10/2024 21:19	29201	APPE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:19	49804	UNIV_T1	1	2	1	0.2	0.35	0.15	0.64	0.69	0	0	0	0	0	0
9/10/2024 21:20	10702	CATA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/10/2024 21:20	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:20	62605	ENGL_T1	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
9/10/2024 21:20	46002	BERW_T2	0	0	0	0	0	0	0.01	-0.02	0	0	0	0	0	0
9/10/2024 21:20	44802	EDAN_T2	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
9/10/2024 21:20	14604	SWHI_T1	0	0	0	0	0	0	0.33	0.25	1	1	0	900	900	0
9/10/2024 21:20	14203	EALL_T1	0	0	0	0	0	0	-0.26	-0.28	1	1	0	1200	1200	0
9/10/2024 21:20	44801	EDAN_T2	114	210	96	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:20	62105	ELAN_T1	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
9/10/2024 21:20	45902	AUBU_T1	1	7	6	0	0.21	0.21	-1.03	-0.97	1	1	0	600	600	0
9/10/2024 21:20	45801	HEGI_T1	0	0	0	0	0	0	-0.1	-0.09	1	1	0	900	900	0
9/10/2024 21:20	27604	PIRI_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
9/10/2024 21:20	49804	UNIV_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
9/10/2024 21:20	62104	ELAN_T1	1	0	-1	2.3	0	-2.3	0	0	0	0	0	0	0	0
9/10/2024 21:20	65001	NEFF_T2	0	0	0	0	0	0	-0.76	-0.82	1	1	0	1200	1200	0
9/10/2024 21:20	13503	MCMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:20	62101	ELAN_T1	0	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0
9/10/2024 21:20	62604	ENGL_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/10/2024 21:20	13704	SCHN_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
9/10/2024 21:20	51004	NHAR_T1	1	1	0	5.7	5.8	0.1	0.03	0.01	0	0	0	0	0	0
9/10/2024 21:20	51002	NHAR_T1	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
9/10/2024 21:20	42201	SHEN_T2	0	0	0	0	0	0	0.09	0.08	1	1	0	600	600	0
9/10/2024 21:20	49803	UNIV_T1	1	1	0	5.6	5.3	-0.3	-0.93	-0.99	0	0	0	0	0	0
9/10/2024 21:20	14601	SWHI_T1	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
9/10/2024 21:20	10705	CATA_T2	0	0	0	0	0	0	-1.12	0.17	0	0	0	0	0	0
9/10/2024 21:21	24603	VARD_T2	47	71	24	0.31	0.32	0.01	0	0	0	0	0	0	0	0
9/10/2024 21:21	14401	SSLA_T1	5	0	-5	0.16	0	-0.16	0	0	0	0	0	0	0	0
9/10/2024 21:21	48302	ORWI_T2	2	2	0	1.3	1.45	0.15	0	-0.02	0	0	0	0	0	0
9/10/2024 21:21	44702	MUNC_T2	117	136	19	0.35	0.35	0	0	0	0	0	0	0	0	0
9/10/2024 21:21	60701	BREC_T1	64	0	-64	0.13	0	-0.13	-0.49	0.1	1	1	0	600	600	0
9/10/2024 21:21	14801	TREI_T2	5	0	-5	0.13	0	-0.13	0.51	0.5	0	0	0	0	0	0
9/10/2024 21:21	24602	VARD_T2	93	187	94	0.27	0.31	0.04	0	0	0	0	0	0	0	0
9/10/2024 21:21	44703	MUNC_T2	2	2	0	1.1	1.25	0.15	0.78	0.77	0	0	0	0	0	0
9/10/2024 21:21	63501	HEID_TBK1-2	48	48	0	0.62	0.48	-0.14	0.48	0.49	0	0	0	0	0	0
9/10/2024 21:21	11507	FREE_T2	0	0	0	0	0	0	0.79	0.94	0	0	0	0	0	0
9/10/2024 21:21	14402	SSLA_T1	81	0	-81	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/10/2024 21:21	24202	PROV_T4	0	1	1	0	2.6	2.6	-0.46	-0.48	1	1	0	1200	1200	0
9/10/2024 21:21	25603	ARRO_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
9/10/2024 21:21	44701	MUNC_T2	126	119	-7	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
9/10/2024 21:21	10805	CHHI_T2	1	1	0	7.6	8	0.4	-1.53	-1.57	2	2	0	1200	1200	0
9/10/2024 21:21	46203	DANV_T2	1	1	0	8.4	9	0.6	0	0	0	0	0	0	0	0
9/10/2024 21:21	46903	MNTG_T2	0	0	0	0	0	0	-0.15	-0.06	1	1	0	600	600	0
9/10/2024 21:21	66505	SMAN_T2	3	3	0	0.57	0.67	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:21	14404	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:21	40802	EXCH_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
9/10/2024 21:21	45902	AUBU_T1	1	7	6	0	0.21	0.21	-0.97	-1.02	1	1	0	600	600	0
9/10/2024 21:21	46206	DANV_T2	0	0	0	0	0	0	1.41	1.37	2	2	0	2100	2100	0
9/10/2024 21:21	66502	SMAN_T2	0	0	0	0	0	0	-0.02	-0.09	0	0	0	0	0	0
9/10/2024 21:21	46501	LOHA_T1	0	0	0	0	0	0	0	0.01	1	1	0	1200	1200	0
9/10/2024 21:21	14203	EALL_T1	0	0	0	0	0	0	-0.28	-0.28	1	1	0	1200	1200	0
9/10/2024 21:21	16103	BING_T2	0	0	0	0	0	0	-2.74	-2.88	2	2	0	1800	1800	0
9/10/2024 21:21	54205	PENN_T1	139	106	-33	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
9/10/2024 21:21	46506	LOHA_T1	3	3	0	5.47	6.3	0.83	0	0	0	0	0	0	0	0
9/10/2024 21:21	14802	TREI_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:21	54203	PENN_T1	157	156	-1	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
9/10/2024 21:21	54201	PENN_T1	207	211	4	0.45	0.46	0.01	-0.8	-0.81	0	0	0	0	0	0
9/10/2024 21:21	14403	SSLA_T1	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
9/10/2024 21:21	63403	HONY_T2	0	0	0	0	0	0	-1.1	-0.99	0	0	0	0	0	0
9/10/2024 21:21	46504	LOHA_T1	7	51	44	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
9/10/2024 21:21	44201	POIN_T1	9	27	18	0.13	0.17	0.04	-1.53	-1.51	2	2	0	2100	2100	0
9/10/2024 21:21	14702	TREX_T2	0	0	0	0	0	0	0.85	0.86	0	0	0	0	0	0
9/10/2024 21:22	64202	KINZ_T1	7	3	-4	0.23	0.7	0.47	0	0	0	0	0	0	0	0
9/10/2024 21:22	67503	WEWI_T2	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
9/10/2024 21:22	67001	STHI_T2	0	1	1	0	0.1	0.1	0.2	0.18	0	0	0	0	0	0
9/10/2024 21:22	45501	DERR_T2	0	1	1	0	0.8	0.8	-0.04	-0.04	2	2	0	1800	1800	0
9/10/2024 21:22	64802	MONE_T2	24	3	-21	0.12	0.13	0.01	0	0	0	0	0	0	0	0
9/10/2024 21:22	44201	POIN_T1	9	27	18	0.13	0.17	0.04	-1.53	-1.51	2	2	0	2100	2100	0
9/10/2024 21:22	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.09	0	0	0	0	0	0
9/10/2024 21:22	46002	BERW_T2	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
9/10/2024 21:22	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:22	15204	SFAR_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
9/10/2024 21:22	46101	MACI_T2	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
9/10/2024 21:22	61504	EPET_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
9/10/2024 21:22	64503	LAVI_T1	0	0	0	0	0	0	-1.8	-0.51	1	1	0	1200	1200	0
9/10/2024 21:22	64902	MILL_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	900	900	0
9/10/2024 21:22	15203	SFAR_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:22	61501	EPET_T2	1	1	0	4.8	4.7	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/10/2024 21:22	11202	ELHE_T2	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
9/10/2024 21:22	64204	KINZ_T1	18	3	-15	0.23	0.53	0.3	0	0	0	0	0	0	0	0
9/10/2024 21:22	24201	PROV_T3	1	1	0	6.8	6.5	-0.3	0	0	2	2	0	2100	2100	0
9/10/2024 21:22	64201	KINZ_T1	7	4	-3	0.46	0.25	-0.21	-0.27	-0.19	2	2	0	1200	1200	0
9/10/2024 21:22	20401	ASHF_T2	16	2	-14	0.26	0.15	-0.11	0	0	0	0	0	0	0	0
9/10/2024 21:22	24204	PROV_T3	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
9/10/2024 21:22	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
9/10/2024 21:22	11104	EGYP_T1	0	0	0	0	0	0	0.62	0.57	0	0	0	0	0	0
9/10/2024 21:22	60701	BREC_T1	64	0	-64	0.13	0	-0.13	-0.49	0.1	1	0	-1	600	0	-600
9/10/2024 21:22	14605	SWHI_T1	0	0	0	0	0	0	1.17	1.2	1	1	0	1200	1200	0
9/10/2024 21:22	64801	MONE_T2	0	1	1	0	0.3	0.3	0.33	0.33	0	0	0	0	0	0
9/10/2024 21:22	12003	HATF_T1	0	0	0	0	0	0	0.06	0.02	1	1	0	1200	1200	0
9/10/2024 21:22	67502	WEWI_T2	1	42	41	0.1	0.14	0.04	-0.19	-0.32	0	0	0	0	0	0
9/10/2024 21:22	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:23	60801	BUCK_T1	12	20	8	0.16	0.16	0	0	0	0	0	0	0	0	0
9/10/2024 21:23	45902	AUBU_T1	1	7	6	0	0.21	0.21	-2.92	-3.06	3	3	0	1800	1800	0
9/10/2024 21:23	48302	ORWI_T2	2	2	0	1.3	1.45	0.15	0	0	0	0	0	0	0	0
9/10/2024 21:23	14402	SSLA_T1	81	0	-81	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/10/2024 21:23	45502	DERR_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
9/10/2024 21:23	23403	HONE_T1	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
9/10/2024 21:23	14603	SWHI_T1	0	0	0	0	0	0	-0.85	-0.82	1	1	0	600	600	0
9/10/2024 21:23	45302	WBER_T2	0	0	0	0	0	0	0.95	0.92	0	0	0	0	0	0
9/10/2024 21:23	14306	SUMN_T1	0	0	0	0	0	0	0.94	0.88	0	0	0	0	0	0
9/10/2024 21:23	63306	GREE_T1	0	0	0	0	0	0	-1.1	-1.11	0	0	0	0	0	0
9/10/2024 21:23	45303	WBER_T2	6	5	-1	1.75	2.06	0.31	0	0	0	0	0	0	0	0
9/10/2024 21:23	40903	JESH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:23	52502	PROG_T2	0	0	0	0	0	0	-0.48	-0.48	1	1	0	900	900	0
9/10/2024 21:23	14802	TREI_T2	2	0	-2	0.1	0	-0.1	0.46	0.43	0	0	0	0	0	0
9/10/2024 21:23	13701	SCHN_T2	0	0	0	0	0	0	0.01	0.02	1	1	0	600	600	0
9/10/2024 21:23	26402	INOR_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
9/10/2024 21:23	14401	SSLA_T1	5	0	-5	0.16	0	-0.16	-0.49	-0.44	0	0	0	0	0	0
9/10/2024 21:23	60803	BUCK_T1	10	15	5	0.17	0.25	0.08	-0.5	-0.47	1	1	0	600	600	0
9/10/2024 21:23	14303	SUMN_T1	3	3	0	6.37	6.3	-0.07	0	0	0	0	0	0	0	0
9/10/2024 21:23	65004	NEFF_T2	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
9/10/2024 21:23	57403	SPAN_T1	59	82	23	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
9/10/2024 21:23	47401	PENS_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
9/10/2024 21:23	45402	WBLO_T2	73	94	21	0.48	0.49	0.01	-1.19	-1.21	1	1	0	900	900	0
9/10/2024 21:23	48902	FOSP_T2	0	0	0	0	0	0	0.06	0.01	0	0	0	0	0	0
9/10/2024 21:23	60101	COCA_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
9/10/2024 21:23	40602	PIGR_T1	1	1	0	0.9	0.4	-0.5	-0.47	-0.49	1	1	0	600	600	0
9/10/2024 21:23	50107	HARR_T3	1	1	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
9/10/2024 21:23	67605	WARW_T1	18	24	6	0.58	0.58	0	-1.08	-1.09	0	0	0	0	0	0
9/10/2024 21:23	46004	BERW_T2	0	1	1	0	0	0	-0.27	-0.29	0	0	0	0	0	0
9/10/2024 21:23	50105	HARR_T3	6	6	0	5.97	5.83	-0.14	0	0	0	0	0	0	0	0
9/10/2024 21:23	50103	HARR_T3	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/10/2024 21:23	26401	INOR_T1	1	1	0	8.8	9.3	0.5	0	0	0	0	0	0	0	0
9/10/2024 21:23	40902	JESH_T1	1	12	11	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/10/2024 21:23	62604	ENGL_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/10/2024 21:23	57401	SPAN_T1	85	237	152	0.21	0.25	0.04	-0.62	-0.88	1	1	0	600	600	0
9/10/2024 21:23	14404	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:23	63304	GREE_T1	27	16	-11	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/10/2024 21:23	50202	HARR_T3	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/10/2024 21:23	63305	GREE_T1	4	2	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
9/10/2024 21:23	14801	TREI_T2	5	0	-5	0.13	0	-0.13	0	0	0	0	0	0	0	0
9/10/2024 21:23	45501	DERR_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/10/2024 21:23	40601	PIGR_T1	2	77	75	0.1	0.16	0.06	0	0	0	0	0	0	0	0
9/10/2024 21:23	62607	ENGL_T1	0	0	0	0	0	0	-0.87	-0.89	1	1	0	300	300	0
9/10/2024 21:23	20601	GRWO_T2	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
9/10/2024 21:24	40101	HUNT_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
9/10/2024 21:24	61506	EPET_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
9/10/2024 21:24	67503	WEWI_T2	1	1	0	8.1	8.5	0.4	0.07	0.07	0	0	0	0	0	0
9/10/2024 21:24	14702	TREX_T2	0	0	0	0	0	0	0.85	0.86	0	0	0	0	0	0
9/10/2024 21:24	15001	BLMO_T1	3	2	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
9/10/2024 21:24	21705	SUBU_T1	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
9/10/2024 21:24	65701	RVIL_T1	0	0	0	0	0	0	-1.03	-1.05	0	0	0	0	0	0
9/10/2024 21:24	22602	KIMB_T1	1	1	0	0.5	0.6	0.1	0.33	0.34	0	0	0	0	0	0
9/10/2024 21:24	61302	EARL_T1	0	0	0	0	0	0	-0.24	-0.33	2	2	0	1800	1800	0
9/10/2024 21:24	46004	BERW_T2	0	1	1	0	0	0	-0.27	-0.29	0	0	0	0	0	0
9/10/2024 21:24	44801	EDAN_T2	114	210	96	0.4	0.5	0.1	-3.21	-3.22	0	0	0	0	0	0
9/10/2024 21:24	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/10/2024 21:24	57403	SPAN_T1	59	82	23	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
9/10/2024 21:24	62604	ENGL_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/10/2024 21:24	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:24	60701	BREC_T1	64	0	-64	0.13	0	-0.13	-0.49	0.1	1	0	-1	600	0	-600
9/10/2024 21:24	57401	SPAN_T1	85	237	152	0.21	0.25	0.04	-0.62	-0.88	1	1	0	600	600	0
9/10/2024 21:24	17401	FOHI_T1	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
9/10/2024 21:24	66703	STRA_T1	5	3	-2	0.34	0.27	-0.07	-0.2	-0.17	0	0	0	0	0	0
9/10/2024 21:24	62606	ENGL_T1	0	0	0	0	0	0	-0.69	-0.64	1	1	0	900	900	0
9/10/2024 21:24	66504	SMAN_T2	0	0	0	0	0	0	-0.6	-0.67	0	0	0	0	0	0
9/10/2024 21:24	65207	PRIN_T4	1	1	0	0.9	0.9	0	0	0	1	1	0	1200	1200	0
9/10/2024 21:24	21703	SUBU_T1	0	0	0	0	0	0	-0.5	-0.57	0	0	0	0	0	0
9/10/2024 21:24	52002	LING_T2	0	1	1	0	0.2	0.2	0.16	0.1	0	0	0	0	0	0
9/10/2024 21:24	62605	ENGL_T1	0	0	0	0	0	0	-0.49	-0.56	0	0	0	0	0	0
9/10/2024 21:24	61501	EPET_T2	1	1	0	4.8	4.7	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:24	45501	DERR_T2	0	1	1	0	0.8	0.8	-0.04	-0.04	2	2	0	1800	1800	0
9/10/2024 21:24	67502	WEWI_T2	1	42	41	0.1	0.14	0.04	0	0	0	0	0	0	0	0
9/10/2024 21:24	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:24	10801	CHHI_T1	0	0	0	0	0	0	-0.66	-0.67	1	1	0	900	900	0
9/10/2024 21:24	12006	HATF_T1	0	0	0	0	0	0	0.57	0.54	1	1	0	1200	1200	0
9/10/2024 21:24	60101	COCA_T1	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
9/10/2024 21:24	52004	LING_T2	2	2	0	6.2	6.35	0.15	0.21	0.21	0	0	0	0	0	0
9/10/2024 21:24	21701	SUBU_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:24	15703	TANN_T2	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:24	59201	THOM_T1	6	10	4	0.13	0.22	0.09	0	0	0	0	0	0	0	0
9/10/2024 21:24	44802	EDAN_T2	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
9/10/2024 21:24	14601	SWHI_T1	0	0	0	0	0	0	-1.49	-1.54	0	0	0	0	0	0
9/10/2024 21:24	46501	LOHA_T1	0	0	0	0	0	0	0	0.01	1	1	0	1200	1200	0
9/10/2024 21:24	22904	HARW_T1	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
9/10/2024 21:24	15702	TANN_T2	0	2	2	0	0.1	0.1	-0.38	-0.41	0	0	0	0	0	0
9/10/2024 21:24	59202	THOM_T1	12	58	46	0.14	0.16	0.02	0	0	0	0	0	0	0	0
9/10/2024 21:24	46506	LOHA_T1	3	3	0	5.47	6.3	0.83	0	0	0	0	0	0	0	0
9/10/2024 21:24	46002	BERW_T2	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
9/10/2024 21:24	62607	ENGL_T1	0	0	0	0	0	0	-1.74	-1.78	2	2	0	600	600	0
9/10/2024 21:24	14603	SWHI_T1	0	0	0	0	0	0	-0.85	-0.82	1	1	0	600	600	0
9/10/2024 21:24	12701	MACU_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
9/10/2024 21:24	46504	LOHA_T1	7	51	44	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
9/10/2024 21:24	66505	SMAN_T2	3	3	0	0.57	0.67	0.1	0.09	-0.06	2	2	0	1500	1500	0
9/10/2024 21:24	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:25	14303	SUMN_T1	3	3	0	6.37	6.3	-0.07	0	0	0	0	0	0	0	0
9/10/2024 21:25	41902	REED_T1	0	0	0	0	0	0	1.04	1.01	0	0	0	0	0	0
9/10/2024 21:25	14307	SUMN_T1	0	0	0	0	0	0	-0.21	-0.15	1	1	0	900	900	0
9/10/2024 21:25	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:25	55101	WERT_T1	0	0	0	0	0	0	-1.21	-1.29	2	2	0	1500	1500	0
9/10/2024 21:25	41901	REED_T1	9	3	-6	0.49	0.17	-0.32	0	0	0	0	0	0	0	0
9/10/2024 21:25	27604	PIRI_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
9/10/2024 21:25	13503	MCMI_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
9/10/2024 21:25	63501	HEID_TBK1-2	48	48	0	0.62	0.48	-0.14	0.48	0.49	0	0	0	0	0	0
9/10/2024 21:25	23901	EFMO_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
9/10/2024 21:25	42903	MIDD_T2	2	2	0	0.2	0.7	0.5	0.05	0.08	0	0	0	0	0	0
9/10/2024 21:25	60701	BREC_T1	64	0	-64	0.13	0	-0.13	-0.97	0.19	2	0	-2	1200	0	-1200
9/10/2024 21:25	60801	BUCK_T1	12	20	8	0.16	0.16	0	0	0	0	0	0	0	0	0
9/10/2024 21:25	54201	PENN_T1	207	211	4	0.45	0.46	0.01	-0.81	-0.83	0	0	0	0	0	0
9/10/2024 21:25	41903	REED_T1	0	0	0	0	0	0	1.09	1.03	0	0	0	0	0	0
9/10/2024 21:25	40602	PIGR_T1	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
9/10/2024 21:25	66505	SMAN_T2	3	3	0	0.57	0.67	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:25	40601	PIGR_T1	2	77	75	0.1	0.16	0.06	0	0	0	0	0	0	0	0
9/10/2024 21:25	43103	SMIL_T2	10	19	9	0.38	0.61	0.23	0	0	0	0	0	0	0	0
9/10/2024 21:25	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:25	42802	SELI_T1	1	0	-1	0.9	0	-0.9	-0.28	-0.34	0	0	0	0	0	0
9/10/2024 21:25	64602	LEOL_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
9/10/2024 21:25	66502	SMAN_T2	0	0	0	0	0	0	-0.04	-0.17	0	0	0	0	0	0
9/10/2024 21:25	44201	POIN_T1	9	27	18	0.13	0.17	0.04	-1.53	-1.51	2	2	0	2100	2100	0
9/10/2024 21:25	14402	SSLA_T1	81	0	-81	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/10/2024 21:25	60803	BUCK_T1	10	15	5	0.17	0.25	0.08	-0.5	-0.47	1	1	0	600	600	0
9/10/2024 21:25	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:25	45602	WOOL_T1	0	0	0	0	0	0	1.26	1.22	0	0	0	0	0	0
9/10/2024 21:25	14605	SWHI_T1	0	0	0	0	0	0	1.17	1.2	1	1	0	1200	1200	0
9/10/2024 21:25	62604	ENGL_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/10/2024 21:25	54203	PENN_T1	157	156	-1	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
9/10/2024 21:25	59202	THOM_T1	12	58	46	0.14	0.16	0.02	0	0	0	0	0	0	0	0
9/10/2024 21:25	65604	QVIL_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
9/10/2024 21:25	65001	NEFF_T2	0	0	0	0	0	0	-0.82	-0.83	1	1	0	1200	1200	0
9/10/2024 21:25	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:25	43101	SMIL_T2	0	0	0	0	0	0	-0.63	-0.71	0	0	0	0	0	0
9/10/2024 21:25	43108	SMIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
9/10/2024 21:25	59201	THOM_T1	6	10	4	0.13	0.22	0.09	0	0	0	0	0	0	0	0
9/10/2024 21:25	67502	WEWI_T2	1	42	41	0.1	0.14	0.04	-0.19	-0.32	0	0	0	0	0	0
9/10/2024 21:25	67503	WEWI_T2	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
9/10/2024 21:25	54205	PENN_T1	139	106	-33	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
9/10/2024 21:25	14401	SSLA_T1	5	0	-5	0.16	0	-0.16	0	0	0	0	0	0	0	0
9/10/2024 21:25	44801	EDAN_T2	114	210	96	0.4	0.5	0.1	-1.6	-1.61	0	0	0	0	0	0
9/10/2024 21:25	14404	SSLA_T1	1	0	-1	0.1	0	-0.1	0.07	-0.02	0	0	0	0	0	0
9/10/2024 21:25	65701	RVIL_T1	0	0	0	0	0	0	-1.03	-1.05	0	0	0	0	0	0
9/10/2024 21:25	67002	STHI_T2	0	0	0	0	0	0	0.75	0.72	0	0	0	0	0	0
9/10/2024 21:25	43105	SMIL_T2	13	16	3	0.15	0.24	0.09	0	0	0	0	0	0	0	0
9/10/2024 21:25	44802	EDAN_T2	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
9/10/2024 21:25	56501	ROCK_T2	2	2	0	0.5	0.7	0.2	0.06	0.04	0	0	0	0	0	0
9/10/2024 21:25	62607	ENGL_T1	0	0	0	0	0	0	-0.87	-0.89	1	1	0	300	300	0
9/10/2024 21:25	12002	HATF_T1	0	0	0	0	0	0	0.04	0.04	1	1	0	1200	1200	0
9/10/2024 21:25	64902	MILL_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	900	900	0
9/10/2024 21:25	43102	SMIL_T2	9	9	0	0.52	0.66	0.14	0	0	0	0	0	0	0	0
9/10/2024 21:26	42903	MIDD_T2	2	2	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
9/10/2024 21:26	52502	PROG_T2	0	0	0	0	0	0	-0.48	-0.48	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/10/2024 21:26	67801	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:26	64203	KINZ_T1	0	0	0	0	0	0	-0.22	-0.24	1	1	0	600	600	0
9/10/2024 21:26	46206	DANV_T2	0	0	0	0	0	0	1.41	1.37	2	2	0	2100	2100	0
9/10/2024 21:26	42902	MIDD_T2	0	0	0	0	0	0	-0.24	-0.33	0	0	0	0	0	0
9/10/2024 21:26	45901	AUBU_T1	0	0	0	0	0	0	1.78	1.78	0	0	0	0	0	0
9/10/2024 21:26	14303	SUMN_T1	3	3	0	6.37	6.3	-0.07	0	0	0	0	0	0	0	0
9/10/2024 21:26	67805	WLAN_T1	484	493	9	0.33	0.33	0	0	0	0	0	0	0	0	0
9/10/2024 21:26	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:26	63305	GREE_T1	4	2	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
9/10/2024 21:26	46203	DANV_T2	1	1	0	8.4	9	0.6	0	0	0	0	0	0	0	0
9/10/2024 21:26	51304	WIND_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
9/10/2024 21:26	10705	CATA_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
9/10/2024 21:26	60801	BUCK_T1	12	20	8	0.16	0.16	0	-0.19	-0.18	0	0	0	0	0	0
9/10/2024 21:26	67605	WARW_T1	18	24	6	0.58	0.58	0	-1.08	-1.09	0	0	0	0	0	0
9/10/2024 21:26	45902	AUBU_T1	1	7	6	0	0.21	0.21	0	0	0	0	0	0	0	0
9/10/2024 21:26	20603	GRWO_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
9/10/2024 21:26	67804	WLAN_T1	6	19	13	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/10/2024 21:26	14203	EALL_T1	0	0	0	0	0	0	-0.28	-0.28	1	1	0	1200	1200	0
9/10/2024 21:26	10702	CATA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/10/2024 21:26	63306	GREE_T1	0	0	0	0	0	0	-1.1	-1.11	0	0	0	0	0	0
9/10/2024 21:26	22405	MORG_T2	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
9/10/2024 21:26	67802	WLAN_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:26	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:26	64204	KINZ_T1	18	3	-15	0.23	0.53	0.3	0	0	0	0	0	0	0	0
9/10/2024 21:26	14301	SUMN_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
9/10/2024 21:26	51402	LYKE_T1	6	15	9	0.12	0.13	0.01	-1.49	-1.46	1	1	0	600	600	0
9/10/2024 21:26	67803	WLAN_T1	0	1	1	0	0.1	0.1	-0.71	-0.74	0	0	0	0	0	0
9/10/2024 21:26	58705	ROSE_T2	5	0	0	2.5	2.26	-0.24	0	0	0	0	0	0	0	0
9/10/2024 21:26	15203	SFAR_T2	0	2	2	0	0.1	0.1	-1.03	-1.05	0	0	0	0	0	0
9/10/2024 21:26	53601	DALM_T2	1	1	0	1.4	1.2	-0.2	0.02	0.05	0	0	0	0	0	0
9/10/2024 21:26	58702	ROSE_T2	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
9/10/2024 21:26	56504	ROCK_T2	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
9/10/2024 21:26	56501	ROCK_T2	2	2	0	0.5	0.7	0.2	0.06	0.04	0	0	0	0	0	0
9/10/2024 21:26	67503	WEWI_T2	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
9/10/2024 21:26	40702	FFLD_T1	3	18	15	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
9/10/2024 21:26	40701	FFLD_T1	29	56	27	0.25	0.31	0.06	0	0	0	0	0	0	0	0
9/10/2024 21:26	44201	POIN_T1	9	27	18	0.13	0.17	0.04	-1.53	-1.51	2	2	0	2100	2100	0
9/10/2024 21:26	22401	MORG_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/10/2024 21:26	42802	SELI_T1	1	0	-1	0.9	0	-0.9	-0.28	-0.34	0	0	0	0	0	0
9/10/2024 21:26	64201	KINZ_T1	7	4	-3	0.46	0.25	-0.21	0	0	0	0	0	0	0	0
9/10/2024 21:26	60803	BUCK_T1	10	15	5	0.17	0.25	0.08	-0.5	-0.47	1	1	0	600	600	0
9/10/2024 21:26	14306	SUMN_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
9/10/2024 21:26	60101	COCA_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
9/10/2024 21:26	47401	PENS_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
9/10/2024 21:26	58701	ROSE_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
9/10/2024 21:26	44301	BEAV_T2	0	0	0	0	0	0	-0.46	0.03	1	1	0	600	600	0
9/10/2024 21:26	53501	EVIL_T2	2	2	0	0.9	1	0.1	-0.01	-0.01	1	1	0	600	600	0
9/10/2024 21:26	64202	KINZ_T1	7	3	-4	0.23	0.7	0.47	0	0	0	0	0	0	0	0
9/10/2024 21:26	63304	GREE_T1	27	16	-11	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/10/2024 21:26	40703	FFLD_T1	2	4	2	0.25	0.3	0.05	0	0	0	0	0	0	0	0
9/10/2024 21:26	67502	WEWI_T2	1	42	41	0.1	0.14	0.04	-0.19	-0.32	0	0	0	0	0	0
9/10/2024 21:26	14601	SWHI_T1	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
9/10/2024 21:26	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/10/2024 21:27	46203	DANV_T2	1	1	0	8.4	9	0.6	0	0	0	0	0	0	0	0
9/10/2024 21:27	56504	ROCK_T2	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
9/10/2024 21:27	67502	WEWI_T2	1	42	41	0.1	0.14	0.04	0	0	0	0	0	0	0	0
9/10/2024 21:27	67702	WERN_T2	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
9/10/2024 21:27	52004	LING_T2	2	2	0	6.2	6.35	0.15	0.21	0.21	0	0	0	0	0	0
9/10/2024 21:27	67703	WERN_T2	0	0	0	0	0	0	-0.04	0.01	1	1	0	900	900	0
9/10/2024 21:27	52002	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 21:27	12002	HATF_T1	0	0	0	0	0	0	0.04	0.04	1	1	0	1200	1200	0
9/10/2024 21:27	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
9/10/2024 21:27	63501	HEID_TBK1-2	48	48	0	0.62	0.48	-0.14	0.48	0.49	0	0	0	0	0	0
9/10/2024 21:27	14403	SSLA_T1	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
9/10/2024 21:27	43402	BENT_T1	0	0	0	0	0	0	-0.63	-0.65	1	1	0	600	600	0
9/10/2024 21:27	65901	SAKR_T2	1	1	0	8.8	9	0.2	-0.62	-0.61	1	1	0	600	600	0
9/10/2024 21:27	44201	POIN_T1	9	27	18	0.13	0.17	0.04	-1.53	-1.51	2	2	0	2100	2100	0
9/10/2024 21:27	20401	ASHF_T2	16	2	-14	0.26	0.15	-0.11	0	0	0	0	0	0	0	0
9/10/2024 21:27	66702	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:27	57401	SPAN_T1	85	237	152	0.21	0.25	0.04	-0.62	-0.88	1	1	0	600	600	0
9/10/2024 21:27	65502	MOJO_T2	153	0	-153	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/10/2024 21:27	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.23	0	0	0	0	0	0
9/10/2024 21:27	10805	CHHI_T2	1	1	0	7.6	8	0.4	-0.77	-0.79	1	1	0	600	600	0
9/10/2024 21:27	57403	SPAN_T1	59	82	23	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
9/10/2024 21:27	14603	SWHI_T1	0	0	0	0	0	0	-0.85	-0.82	1	1	0	600	600	0
9/10/2024 21:27	67503	WEWI_T2	1	1	0	8.1	8.5	0.4	0.07	0.07	0	0	0	0	0	0
9/10/2024 21:27	14402	SSLA_T1	81	0	-81	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/10/2024 21:27	14401	SSLA_T1	5	0	-5	0.16	0	-0.16	0	0	0	0	0	0	0	0
9/10/2024 21:27	63601	LETO_T1	0	0	0	0	0	0	0.47	0.43	2	2	0	2100	2100	0
9/10/2024 21:27	65503	MOJO_T2	20	0	-20	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:27	14801	TREI_T2	5	0	-5	0.13	0	-0.13	0	0	0	0	0	0	0	0
9/10/2024 21:27	59201	THOM_T1	6	10	4	0.13	0.22	0.09	0	0	0	0	0	0	0	0
9/10/2024 21:27	40802	EXCH_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
9/10/2024 21:27	66703	STRA_T1	5	3	-2	0.34	0.27	-0.07	0	0	0	0	0	0	0	0
9/10/2024 21:27	14404	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:27	56501	ROCK_T2	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/10/2024 21:27	46205	DANV_T2	0	0	0	0	0	0	-0.83	-0.82	1	1	0	1200	1200	0
9/10/2024 21:27	53501	EVIL_T2	2	2	0	0.9	1	0.1	-0.01	-0.01	2	2	0	1200	1200	0
9/10/2024 21:27	14802	TREI_T2	2	0	-2	0.1	0	-0.1	0.46	0.43	0	0	0	0	0	0
9/10/2024 21:27	59202	THOM_T1	12	58	46	0.14	0.16	0.02	0	0	0	0	0	0	0	0
9/10/2024 21:28	67704	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:28	63304	GREE_T1	27	16	-11	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/10/2024 21:28	14201	EALL_T1	0	0	0	0	0	0	0.66	0.64	0	0	0	0	0	0
9/10/2024 21:28	67502	WEWI_T2	1	42	41	0.1	0.14	0.04	0	0	0	0	0	0	0	0
9/10/2024 21:28	46803	HEPB_T2	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
9/10/2024 21:28	63306	GREE_T1	0	0	0	0	0	0	-1.1	-1.11	0	0	0	0	0	0
9/10/2024 21:28	12302	LANA_T2	0	0	0	0	0	0	-1.43	-1.47	2	2	0	1500	1500	0
9/10/2024 21:28	67605	WARW_T1	18	24	6	0.58	0.58	0	0	0	0	0	0	0	0	0
9/10/2024 21:28	66505	SMAN_T2	3	3	0	0.57	0.67	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:28	16002	DORN_T2	0	0	0	0	0	0	-0.61	-0.65	1	1	0	1200	1200	0
9/10/2024 21:28	50107	HARR_T3	1	1	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
9/10/2024 21:28	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:28	14601	SWHI_T1	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
9/10/2024 21:28	50103	HARR_T3	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/10/2024 21:28	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:28	57203	ROSS_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
9/10/2024 21:28	63305	GREE_T1	4	2	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
9/10/2024 21:28	63401	HONY_T1	0	0	0	0	0	0	-0.02	-0.03	1	1	0	600	600	0
9/10/2024 21:28	14603	SWHI_T1	0	0	0	0	0	0	-0.85	-0.82	1	1	0	600	600	0
9/10/2024 21:28	41305	FISH_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
9/10/2024 21:28	50105	HARR_T3	6	6	0	5.97	5.83	-0.14	0	0	0	0	0	0	0	0
9/10/2024 21:28	21701	SUBU_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:28	41301	FISH_T1	2	2	0	1.35	1.45	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:28	45602	WOOL_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
9/10/2024 21:28	47401	PENS_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
9/10/2024 21:28	21704	SUBU_T1	0	0	0	0	0	0	-1.17	-1.17	1	1	0	1200	1200	0
9/10/2024 21:28	67503	WEWI_T2	1	1	0	8.1	8.5	0.4	0.07	0.07	0	0	0	0	0	0
9/10/2024 21:28	11901	ETEX_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
9/10/2024 21:28	65701	RVIL_T1	0	0	0	0	0	0	-1.03	-1.05	0	0	0	0	0	0
9/10/2024 21:28	17401	FOHI_T1	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
9/10/2024 21:28	66502	SMAN_T2	0	0	0	0	0	0	-0.02	-0.09	0	0	0	0	0	0
9/10/2024 21:28	46801	HEPB_T2	2	2	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
9/10/2024 21:28	50202	HARR_T3	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/10/2024 21:28	55002	NEWP_T1	4	6	2	0.38	0.43	0.05	0	0	0	0	0	0	0	0
9/10/2024 21:28	21705	SUBU_T1	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
9/10/2024 21:29	52502	PROG_T2	0	0	0	0	0	0	-0.48	-0.48	1	1	0	900	900	0
9/10/2024 21:29	62604	ENGL_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/10/2024 21:29	65205	PRIN_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
9/10/2024 21:29	66502	SMAN_T2	0	0	0	0	0	0	-0.02	-0.09	0	0	0	0	0	0
9/10/2024 21:29	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
9/10/2024 21:29	66701	STRA_T1	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
9/10/2024 21:29	67503	WEWI_T2	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
9/10/2024 21:29	67502	WEWI_T2	1	42	41	0.1	0.14	0.04	-0.19	-0.32	0	0	0	0	0	0
9/10/2024 21:29	40802	EXCH_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
9/10/2024 21:29	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
9/10/2024 21:29	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/10/2024 21:29	66505	SMAN_T2	3	3	0	0.57	0.67	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:29	45802	HEGI_T2	30	35	5	0.56	0.59	0.03	0.49	0.76	0	0	0	0	0	0
9/10/2024 21:29	57006	WHHI_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/10/2024 21:29	60102	COCA_T1	0	0	0	0	0	0	0.37	0.28	2	2	0	1200	1200	0
9/10/2024 21:29	57004	WHHI_T2	0	0	0	0	0	0	-0.51	-0.47	0	0	0	0	0	0
9/10/2024 21:29	47401	PENS_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
9/10/2024 21:29	63501	HEID_TBK1-2	48	48	0	0.62	0.48	-0.14	0.48	0.49	0	0	0	0	0	0
9/10/2024 21:29	53903	HALI_T2	2	2	0	1.7	1.9	0.2	0	0	0	0	0	0	0	0
9/10/2024 21:29	65502	MOJO_T2	153	0	-153	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/10/2024 21:29	45501	DERR_T2	0	1	1	0	0.8	0.8	-0.04	-0.04	2	2	0	1800	1800	0
9/10/2024 21:29	53901	HALI_T2	2	6	4	0.75	0.52	-0.23	0	0	0	0	0	0	0	0
9/10/2024 21:29	62605	ENGL_T1	0	0	0	0	0	0	-0.49	-0.56	0	0	0	0	0	0
9/10/2024 21:29	10903	COOP_T2	0	33	33	0	0.15	0.15	-0.25	-0.24	1	1	0	600	600	0
9/10/2024 21:29	62601	ENGL_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
9/10/2024 21:29	42503	ALTA_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
9/10/2024 21:29	66901	SHIL_T2	157	143	-14	0.18	0.18	0	-1.55	-1.58	1	1	0	1200	1200	0
9/10/2024 21:29	14601	SWHI_T1	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
9/10/2024 21:29	53902	HALI_T2	1	1	0	5.6	5.8	0.2	-0.15	-0.16	0	0	0	0	0	0
9/10/2024 21:29	66702	STRA_T1	0	0	0	0	0	0	0.38	0.46	2	2	0	1500	1500	0
9/10/2024 21:29	20401	ASHF_T2	16	2	-14	0.26	0.15	-0.11	0	0	0	0	0	0	0	0
9/10/2024 21:29	60101	COCA_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
9/10/2024 21:29	65503	MOJO_T2	20	0	-20	0.1	0	-0.1	-0.15	-0.13	0	0	0	0	0	0
9/10/2024 21:29	66703	STRA_T1	5	3	-2	0.34	0.27	-0.07	0	0	0	0	0	0	0	0
9/10/2024 21:29	67001	STHI_T2	0	1	1	0	0.1	0.1	0.2	0.18	0	0	0	0	0	0
9/10/2024 21:29	66902	SHIL_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:29	61502	EPET_T1	0	0	0	0	0	0	-0.75	-0.82	0	0	0	0	0	0
9/10/2024 21:29	46101	MACI_T2	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/10/2024 21:29	61301	EARL_T1	0	0	0	0	0	0	-0.9	-0.9	2	2	0	1800	1800	0
9/10/2024 21:30	62101	ELAN_T1	1	2	1	1.9	0.9	-1	0	0	0	0	0	0	0	0
9/10/2024 21:30	44201	POIN_T1	21	132	111	0.14	0.27	0.13	-1.53	-1.51	2	2	0	2100	2100	0
9/10/2024 21:30	45501	DERR_T2	1	1	0	0.2	0.8	0.6	-0.04	-0.04	2	2	0	1800	1800	0
9/10/2024 21:30	67605	WARW_T1	20	28	8	0.54	0.67	0.13	-1.08	-1.09	0	0	0	0	0	0
9/10/2024 21:30	52001	LING_T1	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
9/10/2024 21:30	56501	ROCK_T2	2	5	3	0.7	0.48	-0.22	0.06	0.04	0	0	0	0	0	0
9/10/2024 21:30	60801	BUCK_T1	17	43	26	0.16	0.24	0.08	0	0	0	0	0	0	0	0
9/10/2024 21:30	40504	CRES_T1	0	0	0	0	0	0	-0.42	-0.47	0	0	0	0	0	0
9/10/2024 21:30	50105	HARR_T3	6	6	0	5.83	5.87	0.04	0	0	0	0	0	0	0	0
9/10/2024 21:30	46501	LOHA_T1	0	0	0	0	0	0	0	0.01	1	1	0	1200	1200	0
9/10/2024 21:30	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:30	46001	BERW_T1	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
9/10/2024 21:30	46504	LOHA_T1	9	51	42	0.41	0.49	0.08	0	0	0	0	0	0	0	0
9/10/2024 21:30	53501	EVIL_T2	2	2	0	0.9	0.85	-0.05	-0.02	-0.02	3	3	0	1800	1800	0
9/10/2024 21:30	57403	SPAN_T1	42	107	65	0.16	0.2	0.04	0.27	0.24	0	0	0	0	0	0
9/10/2024 21:30	62105	ELAN_T1	0	4	4	0	0.1	0.1	0.64	0.6	0	0	0	0	0	0
9/10/2024 21:30	14601	SWHI_T1	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
9/10/2024 21:30	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 21:30	50202	HARR_T3	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/10/2024 21:30	21204	ECAR_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/10/2024 21:30	50107	HARR_T3	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
9/10/2024 21:30	46506	LOHA_T1	3	3	0	5.57	6.3	0.73	0	0	0	0	0	0	0	0
9/10/2024 21:30	60101	COCA_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
9/10/2024 21:30	59201	THOM_T1	9	11	2	0.18	0.24	0.06	0	0	0	0	0	0	0	0
9/10/2024 21:30	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/10/2024 21:30	44301	BEAV_T2	0	0	0	0	0	0	-0.46	0.03	1	1	0	600	600	0
9/10/2024 21:30	65503	MOJO_T2	0	0	0	0	0	0	-0.15	-0.13	0	0	0	0	0	0
9/10/2024 21:30	62106	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:30	65701	RVIL_T1	0	0	0	0	0	0	-1.03	-1.05	0	0	0	0	0	0
9/10/2024 21:30	53502	EVIL_T2	0	1	1	0	0.2	0.2	-0.15	-0.23	1	1	0	600	600	0
9/10/2024 21:30	21206	ECAR_T2	1	1	0	7.9	8.4	0.5	0.37	0.38	0	0	0	0	0	0
9/10/2024 21:30	57205	ROSS_T1	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
9/10/2024 21:30	49803	UNIV_T1	1	1	0	5.4	5.3	-0.1	-0.99	-1.01	0	0	0	0	0	0
9/10/2024 21:30	58402	MORO_T1	0	0	0	0	0	0	0.5	0.53	1	1	0	900	900	0
9/10/2024 21:30	40801	EXCH_T2	0	0	0	0	0	0	0.86	0.87	0	0	0	0	0	0
9/10/2024 21:30	66703	STRA_T1	3	9	6	0.13	0.31	0.18	0	0	0	0	0	0	0	0
9/10/2024 21:30	57401	SPAN_T1	53	265	212	0.2	0.26	0.06	-1.23	-1.77	2	2	0	1200	1200	0
9/10/2024 21:30	66702	STRA_T1	0	0	0	0	0	0	0.76	0.93	4	4	0	3000	3000	0
9/10/2024 21:30	49804	UNIV_T1	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
9/10/2024 21:30	44801	EDAN_T2	186	256	70	0.44	0.5	0.06	-1.6	-1.61	0	0	0	0	0	0
9/10/2024 21:30	11104	EGYP_T1	0	0	0	0	0	0	0.62	0.57	0	0	0	0	0	0
9/10/2024 21:30	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:30	50103	HARR_T3	2	2	0	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
9/10/2024 21:30	12001	HATF_T1	0	0	0	0	0	0	1.11	1.02	1	1	0	600	600	0
9/10/2024 21:30	59202	THOM_T1	24	77	53	0.15	0.16	0.01	0	0	0	0	0	0	0	0
9/10/2024 21:30	60803	BUCK_T1	11	15	4	0.22	0.35	0.13	-0.5	-0.47	1	1	0	600	600	0
9/10/2024 21:30	46004	BERW_T2	0	1	1	0	0	0	-0.27	-0.29	0	0	0	0	0	0
9/10/2024 21:30	47401	PENS_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
9/10/2024 21:30	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:31	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:31	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:31	57401	SPAN_T1	53	265	212	0.2	0.26	0.06	-0.62	-0.88	1	1	0	600	600	0
9/10/2024 21:31	64204	KINZ_T1	1	15	14	1.3	0.23	-1.07	0	0	0	0	0	0	0	0
9/10/2024 21:31	22405	MORG_T2	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
9/10/2024 21:31	44802	EDAN_T2	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
9/10/2024 21:31	45302	WBER_T2	0	0	0	0	0	0	0.95	0.92	0	0	0	0	0	0
9/10/2024 21:31	66505	SMAN_T2	3	3	0	0.67	0.17	-0.5	0.18	-0.13	4	4	0	3000	3000	0
9/10/2024 21:31	44801	EDAN_T2	186	256	70	0.44	0.5	0.06	0	0	0	0	0	0	0	0
9/10/2024 21:31	55101	WERT_T1	0	0	0	0	0	0	-1.21	-1.29	2	2	0	1500	1500	0
9/10/2024 21:31	66903	SHIL_T2	0	0	0	0	0	0	-0.78	-0.81	0	0	0	0	0	0
9/10/2024 21:31	55405	SHER_T1	28	26	-2	0.43	0.37	-0.06	-0.17	-0.17	0	0	0	0	0	0
9/10/2024 21:31	66901	SHIL_T2	61	159	98	0.12	0.2	0.08	0	0	0	0	0	0	0	0
9/10/2024 21:31	53502	EVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 21:31	57403	SPAN_T1	42	107	65	0.16	0.2	0.04	0	0	0	0	0	0	0	0
9/10/2024 21:31	67001	STHI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:31	44203	POIN_T2	0	0	0	0	0	0	-0.6	-0.42	2	2	0	2100	2100	0
9/10/2024 21:31	55002	NEWP_T1	5	6	1	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
9/10/2024 21:31	60701	BREC_T1	0	0	0	0	0	0	-0.49	0.1	1	0	-1	600	0	-600
9/10/2024 21:31	43202	MVIL_T2	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
9/10/2024 21:31	45303	WBER_T2	1	6	5	9.9	1.77	-8.13	0	0	0	0	0	0	0	0
9/10/2024 21:31	67505	WEWI_T1	0	0	0	0	0	0	-0.02	-0.01	1	1	0	900	900	0
9/10/2024 21:31	55104	WERT_T2	0	0	0	0	0	0	-1.06	-1.15	3	3	0	2100	2100	0
9/10/2024 21:31	53501	EVIL_T2	2	2	0	0.9	0.85	-0.05	-0.01	-0.01	1	1	0	600	600	0
9/10/2024 21:31	61001	DONV_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
9/10/2024 21:31	59301	MCAL_T1	17	5	-12	0.27	0.66	0.39	-1.72	-1.76	1	1	0	600	600	0
9/10/2024 21:31	22401	MORG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:31	64202	KINZ_T1	2	3	1	0.55	0.7	0.15	0.96	0.95	0	0	0	0	0	0
9/10/2024 21:31	64201	KINZ_T1	2	6	4	0.35	0.35	0	0	0	0	0	0	0	0	0
9/10/2024 21:31	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 21:31	67002	STHI_T2	0	0	0	0	0	0	0.75	0.72	0	0	0	0	0	0
9/10/2024 21:31	59302	MCAL_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/10/2024 21:31	56501	ROCK_T2	2	5	3	0.7	0.48	-0.22	0.06	0.04	0	0	0	0	0	0
9/10/2024 21:31	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:31	12701	MACU_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
9/10/2024 21:31	65701	RVIL_T1	0	0	0	0	0	0	-1.03	-1.05	0	0	0	0	0	0
9/10/2024 21:31	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
9/10/2024 21:32	42201	SHEN_T2	0	1	1	0	0.1	0.1	0.08	0.06	1	1	0	600	600	0
9/10/2024 21:32	52403	GRPA_T2	76	133	57	0.63	1.09	0.46	0	0	0	0	0	0	0	0
9/10/2024 21:32	52502	PROG_T2	0	0	0	0	0	0	-0.48	-0.48	1	1	0	900	900	0
9/10/2024 21:32	66502	SMAN_T2	0	0	0	0	0	0	-0.02	-0.09	0	0	0	0	0	0
9/10/2024 21:32	57403	SPAN_T1	42	107	65	0.16	0.2	0.04	0	0	0	0	0	0	0	0
9/10/2024 21:32	67501	WEWI_T1	0	0	0	0	0	0	-0.41	-0.46	0	0	0	0	0	0
9/10/2024 21:32	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:32	43202	MVIL_T2	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
9/10/2024 21:32	59301	MCAL_T1	17	5	-12	0.27	0.66	0.39	-1.72	-1.76	1	1	0	600	600	0
9/10/2024 21:32	60701	BREC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:32	61803	EELI_T2	0	0	0	0	0	0	0.32	0.23	1	1	0	600	600	0
9/10/2024 21:32	52401	GRPA_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
9/10/2024 21:32	56501	ROCK_T2	2	5	3	0.7	0.48	-0.22	0.06	0.04	0	0	0	0	0	0
9/10/2024 21:32	59302	MCAL_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/10/2024 21:32	58202	NEWV_T1	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
9/10/2024 21:32	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:32	52404	GRPA_T2	1	1	0	1.6	1.9	0.3	-0.16	-0.16	0	0	0	0	0	0
9/10/2024 21:32	52402	GRPA_T2	4	25	21	1.18	0.49	-0.69	0	0	0	0	0	0	0	0
9/10/2024 21:32	14403	SSLA_T1	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
9/10/2024 21:32	66505	SMAN_T2	3	3	0	0.67	0.17	-0.5	0.18	-0.13	4	4	0	3000	3000	0
9/10/2024 21:32	57401	SPAN_T1	53	265	212	0.2	0.26	0.06	-1.23	-1.77	2	2	0	1200	1200	0
9/10/2024 21:32	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 21:33	55408	SHER_T2	1	1	0	3.9	3.7	-0.2	-0.94	-0.94	1	1	0	1200	1200	0
9/10/2024 21:33	66502	SMAN_T2	0	0	0	0	0	0	-0.02	-0.09	0	0	0	0	0	0
9/10/2024 21:33	52403	GRPA_T2	76	133	57	0.63	1.09	0.46	0	0	0	0	0	0	0	0
9/10/2024 21:33	52006	LING_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
9/10/2024 21:33	52402	GRPA_T2	4	25	21	1.18	0.49	-0.69	-0.71	-0.72	0	0	0	0	0	0
9/10/2024 21:33	63501	HEID_TBK1-2	48	48	0	0.52	0.6	0.08	0.48	0.49	0	0	0	0	0	0
9/10/2024 21:33	52401	GRPA_T2	1	1	0	0.4	0.9	0.5	-0.32	-0.31	0	0	0	0	0	0
9/10/2024 21:33	65904	SAKR_T2	0	0	0	0	0	0	-1.78	-1.77	2	2	0	900	900	0
9/10/2024 21:33	53502	EVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 21:33	67605	WARW_T1	20	28	8	0.54	0.67	0.13	-1.08	-1.09	0	0	0	0	0	0
9/10/2024 21:33	64203	KINZ_T1	0	0	0	0	0	0	-0.22	-0.24	1	1	0	600	600	0
9/10/2024 21:33	52004	LING_T2	2	2	0	6.35	6.45	0.1	0.21	0.21	0	0	0	0	0	0
9/10/2024 21:33	63804	HEMP_T1	1	1	0	6	5.8	-0.2	-0.32	-0.35	0	0	0	0	0	0
9/10/2024 21:33	56501	ROCK_T2	2	5	3	0.7	0.48	-0.22	0.06	0.04	0	0	0	0	0	0
9/10/2024 21:33	53501	EVIL_T2	2	2	0	0.9	0.85	-0.05	-0.01	-0.01	1	1	0	600	600	0
9/10/2024 21:33	64204	KINZ_T1	1	15	14	1.3	0.23	-1.07	0	0	0	0	0	0	0	0
9/10/2024 21:33	23001	SAJO_T1	0	0	0	0	0	0	0.07	0.11	0	0	0	0	0	0
9/10/2024 21:33	65901	SAKR_T2	1	1	0	8.9	9	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:33	67703	WERN_T2	0	0	0	0	0	0	-0.04	0.01	1	1	0	900	900	0
9/10/2024 21:33	46102	MACI_T1	0	0	0	0	0	0	0.77	0.78	0	0	0	0	0	0
9/10/2024 21:33	64201	KINZ_T1	2	6	4	0.35	0.35	0	0	0	0	0	0	0	0	0
9/10/2024 21:33	64202	KINZ_T1	2	3	1	0.55	0.7	0.15	0	0	0	0	0	0	0	0
9/10/2024 21:33	57203	ROSS_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
9/10/2024 21:33	52404	GRPA_T2	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
9/10/2024 21:33	56504	ROCK_T2	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
9/10/2024 21:33	52002	LING_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
9/10/2024 21:33	66505	SMAN_T2	3	3	0	0.67	0.17	-0.5	0	0	0	0	0	0	0	0
9/10/2024 21:34	59201	THOM_T1	9	11	2	0.18	0.24	0.06	0	0	0	0	0	0	0	0
9/10/2024 21:34	60701	BREC_T1	0	0	0	0	0	0	-0.49	0.1	1	0	-1	600	0	-600
9/10/2024 21:34	47502	NECO_T1	1	2	1	0.9	0.55	-0.35	0.98	1.02	0	0	0	0	0	0
9/10/2024 21:34	64201	KINZ_T1	2	6	4	0.35	0.35	0	0	0	0	0	0	0	0	0
9/10/2024 21:34	60101	COCA_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
9/10/2024 21:34	45402	WBLO_T2	86	92	6	0.49	0.49	0	-1.19	-1.21	1	1	0	900	900	0
9/10/2024 21:34	64202	KINZ_T1	2	3	1	0.55	0.7	0.15	0	0	0	0	0	0	0	0
9/10/2024 21:34	54601	SUMM_T2	13	13	0	0.58	0.92	0.34	-1.76	-1.8	2	2	0	2100	2100	0
9/10/2024 21:34	47901	HRDG_T1	0	0	0	0	0	0	1.37	1.87	0	0	0	0	0	0
9/10/2024 21:34	64203	KINZ_T1	0	0	0	0	0	0	-0.22	-0.24	1	1	0	600	600	0
9/10/2024 21:34	67605	WARW_T1	20	28	8	0.54	0.67	0.13	-1.08	-1.09	0	0	0	0	0	0
9/10/2024 21:34	55002	NEWP_T1	5	6	1	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
9/10/2024 21:34	65502	MOJO_T2	0	0	0	0	0	0	-0.67	-0.73	0	0	0	0	0	0
9/10/2024 21:34	64204	KINZ_T1	1	15	14	1.3	0.23	-1.07	0	0	0	0	0	0	0	0
9/10/2024 21:34	11301	EMMA_T1	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
9/10/2024 21:34	42802	SELI_T1	0	1	1	0	0.2	0.2	-0.28	-0.34	0	0	0	0	0	0
9/10/2024 21:34	57403	SPAN_T1	42	107	65	0.16	0.2	0.04	0.13	0.12	0	0	0	0	0	0
9/10/2024 21:34	67602	WARW_T2	1	1	0	1.1	1.4	0.3	0.28	0.3	1	1	0	300	300	0
9/10/2024 21:34	54602	SUMM_T2	2	7	5	0.1	0.24	0.14	0	0	0	0	0	0	0	0
9/10/2024 21:34	53502	EVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 21:34	57402	SPAN_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
9/10/2024 21:34	51702	OBER_T1	2	2	0	2.5	2.2	-0.3	-0.12	-0.15	0	0	0	0	0	0
9/10/2024 21:34	64305	LINC_T1	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
9/10/2024 21:34	40101	HUNT_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
9/10/2024 21:34	53501	EVIL_T2	2	2	0	0.9	0.85	-0.05	-0.01	-0.01	1	1	0	600	600	0
9/10/2024 21:34	63501	HEID_TBK1-2	48	48	0	0.52	0.6	0.08	0.48	0.49	0	0	0	0	0	0
9/10/2024 21:34	57401	SPAN_T1	53	265	212	0.2	0.26	0.06	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/10/2024 21:34	60103	COCA_T2	0	0	0	0	0	0	-1.42	-1.46	1	1	0	1200	1200	0
9/10/2024 21:34	59202	THOM_T1	24	77	53	0.15	0.16	0.01	0	0	0	0	0	0	0	0
9/10/2024 21:34	56501	ROCK_T2	2	5	3	0.7	0.48	-0.22	0.06	0.04	0	0	0	0	0	0
9/10/2024 21:34	54603	SUMM_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/10/2024 21:35	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:35	58402	MORO_T1	0	0	0	0	0	0	0.5	0.53	1	1	0	900	900	0
9/10/2024 21:35	63304	GREE_T1	14	4	-10	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
9/10/2024 21:35	63302	GREE_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
9/10/2024 21:35	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 21:35	57403	SPAN_T1	42	107	65	0.16	0.2	0.04	0	0	0	0	0	0	0	0
9/10/2024 21:35	64802	MONE_T2	3	47	44	0.13	0.17	0.04	0.27	0.26	0	0	0	0	0	0
9/10/2024 21:35	46402	FLEM_T2	1026	1214	188	0.65	0.99	0.34	0	0	0	0	0	0	0	0
9/10/2024 21:35	64801	MONE_T2	0	5	5	0	0.26	0.26	0	0	0	0	0	0	0	0
9/10/2024 21:35	42902	MIDD_T2	0	0	0	0	0	0	-0.24	-0.33	0	0	0	0	0	0
9/10/2024 21:35	55101	WERT_T1	0	0	0	0	0	0	-1.21	-1.29	2	2	0	1500	1500	0
9/10/2024 21:35	28805	LAKE_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
9/10/2024 21:35	45802	HEGI_T2	31	42	11	0.63	0.76	0.13	0.49	0.76	0	0	0	0	0	0
9/10/2024 21:35	55002	NEWP_T1	5	6	1	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
9/10/2024 21:35	46401	FLEM_T2	873	979	106	0.76	1.02	0.26	-0.21	-0.21	0	0	0	0	0	0
9/10/2024 21:35	63305	GREE_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:35	12701	MACU_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
9/10/2024 21:35	63501	HEID_TBK1-2	48	48	0	0.52	0.6	0.08	0.48	0.49	0	0	0	0	0	0
9/10/2024 21:35	57401	SPAN_T1	53	265	212	0.2	0.26	0.06	-0.62	-0.88	1	1	0	600	600	0
9/10/2024 21:35	42903	MIDD_T2	2	2	0	0.45	0.95	0.5	0	0	0	0	0	0	0	0
9/10/2024 21:36	50105	HARR_T3	6	6	0	5.83	5.87	0.04	0	0	0	0	0	0	0	0
9/10/2024 21:36	43105	SMIL_T2	8	16	8	0.14	0.27	0.13	0	0	0	0	0	0	0	0
9/10/2024 21:36	67801	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:36	43103	SMIL_T2	16	22	6	0.52	0.56	0.04	0	0	0	0	0	0	0	0
9/10/2024 21:36	58102	NEKI_T1	1	1	0	1.3	0.9	-0.4	-0.14	0.63	0	0	0	0	0	0
9/10/2024 21:36	55002	NEWP_T1	5	6	1	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
9/10/2024 21:36	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 21:36	67804	WLAN_T1	19	2	-17	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
9/10/2024 21:36	66703	STRA_T1	3	9	6	0.13	0.31	0.18	-0.17	-0.24	0	0	0	0	0	0
9/10/2024 21:36	40602	PIGR_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
9/10/2024 21:36	40101	HUNT_T2	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
9/10/2024 21:36	43108	SMIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
9/10/2024 21:36	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:36	59101	WALK_T2	0	0	0	0	0	0	1.8	1.91	2	2	0	1200	1200	0
9/10/2024 21:36	67805	WLAN_T1	484	442	-42	0.33	0.27	-0.06	-1.41	-1.34	0	0	0	0	0	0
9/10/2024 21:36	42201	SHEN_T2	0	1	1	0	0.1	0.1	0.06	0.04	1	1	0	600	600	0
9/10/2024 21:36	50107	HARR_T3	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
9/10/2024 21:36	59202	THOM_T1	24	77	53	0.15	0.16	0.01	0	0	0	0	0	0	0	0
9/10/2024 21:36	50202	HARR_T3	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/10/2024 21:36	40601	PIGR_T1	25	85	60	0.12	0.17	0.05	-0.15	-0.15	0	0	0	0	0	0
9/10/2024 21:36	67803	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:36	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:36	65501	MOJO_T1	0	0	0	0	0	0	-1.2	-1.1	1	1	0	900	900	0
9/10/2024 21:36	50103	HARR_T3	2	2	0	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
9/10/2024 21:36	67602	WARW_T2	1	1	0	1.1	1.4	0.3	0.3	0.5	1	1	0	300	300	0
9/10/2024 21:36	58401	MORO_T1	0	0	0	0	0	0	-1.02	-0.42	1	0	-1	600	0	-600
9/10/2024 21:36	59201	THOM_T1	9	11	2	0.18	0.24	0.06	0	0	0	0	0	0	0	0
9/10/2024 21:36	56501	ROCK_T2	2	5	3	0.7	0.48	-0.22	0.06	0.04	0	0	0	0	0	0
9/10/2024 21:36	67001	STHI_T2	0	2	2	0	0.1	0.1	0.18	0.19	0	0	0	0	0	0
9/10/2024 21:36	43102	SMIL_T2	8	9	1	0.53	0.8	0.27	-0.85	-0.83	1	1	0	600	600	0
9/10/2024 21:37	52006	LING_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
9/10/2024 21:37	52004	LING_T2	2	2	0	6.35	6.45	0.1	0.21	0.18	0	0	0	0	0	0
9/10/2024 21:37	52002	LING_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
9/10/2024 21:37	21501	CEAV_T2	0	0	0	0	0	0	-0.48	-0.44	1	1	0	1200	1200	0
9/10/2024 21:37	57401	SPAN_T1	53	265	212	0.2	0.26	0.06	-0.88	-0.87	1	1	0	600	600	0
9/10/2024 21:37	55101	WERT_T1	0	0	0	0	0	0	-1.29	-1.34	2	2	0	1500	1500	0
9/10/2024 21:37	44301	BEAV_T2	0	0	0	0	0	0	0.03	0.03	1	1	0	600	600	0
9/10/2024 21:37	57403	SPAN_T1	42	107	65	0.16	0.2	0.04	0	0	0	0	0	0	0	0
9/10/2024 21:37	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 21:37	53502	EVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 21:37	65802	RTWN_T2	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
9/10/2024 21:37	53601	DALM_T2	1	1	0	1.2	1.5	0.3	0.05	0.02	0	0	0	0	0	0
9/10/2024 21:37	53501	EVIL_T2	2	2	0	0.9	0.85	-0.05	-0.01	-0.01	2	2	0	1200	1200	0
9/10/2024 21:37	42903	MIDD_T2	2	2	0	0.45	0.95	0.5	0.08	0.02	0	0	0	0	0	0
9/10/2024 21:38	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:38	53502	EVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 21:38	40602	PIGR_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
9/10/2024 21:38	57401	SPAN_T1	53	265	212	0.2	0.26	0.06	0	0	0	0	0	0	0	0
9/10/2024 21:38	55508	HERS_T2	2	2	0	1.35	1	-0.35	0	0	0	0	0	0	0	0
9/10/2024 21:38	40601	PIGR_T1	25	85	60	0.12	0.17	0.05	0	0	0	0	0	0	0	0
9/10/2024 21:38	55101	WERT_T1	0	0	0	0	0	0	-2.58	-2.68	4	4	0	3000	3000	0
9/10/2024 21:38	53501	EVIL_T2	2	2	0	0.9	0.85	-0.05	-0.01	-0.01	1	1	0	600	600	0
9/10/2024 21:38	58401	MORO_T1	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
9/10/2024 21:38	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/10/2024 21:38	40801	EXCH_T2	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
9/10/2024 21:38	57403	SPAN_T1	42	107	65	0.16	0.2	0.04	0.12	0.11	0	0	0	0	0	0
9/10/2024 21:39	46401	FLEM_T2	873	979	106	0.76	1.02	0.26	0	0	0	0	0	0	0	0
9/10/2024 21:39	45501	DERR_T2	1	1	0	0.2	0.8	0.6	-0.04	-0.1	2	2	0	1800	1800	0
9/10/2024 21:39	47202	FAXO_T2	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
9/10/2024 21:39	59002	MIFF_T1	5	6	1	0.34	0.63	0.29	0	0	0	0	0	0	0	0
9/10/2024 21:39	52401	GRPA_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
9/10/2024 21:39	58401	MORO_T1	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
9/10/2024 21:39	60101	COCA_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
9/10/2024 21:39	52404	GRPA_T2	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
9/10/2024 21:39	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:39	40502	CRES_T2	22	31	9	0.32	0.24	-0.08	-0.34	-0.33	0	0	0	0	0	0
9/10/2024 21:39	56501	ROCK_T2	2	5	3	0.7	0.48	-0.22	0.04	0.04	0	0	0	0	0	0
9/10/2024 21:39	67605	WARW_T1	20	28	8	0.54	0.67	0.13	-1.09	-1.12	0	0	0	0	0	0
9/10/2024 21:39	42802	SELI_T1	0	1	1	0	0.2	0.2	-0.34	-0.32	0	0	0	0	0	0
9/10/2024 21:39	46302	ROHR_T1	3	4	1	0.53	1.1	0.57	0.14	0.14	0	0	0	0	0	0
9/10/2024 21:39	52402	GRPA_T2	4	25	21	1.18	0.49	-0.69	0	0	0	0	0	0	0	0
9/10/2024 21:39	46402	FLEM_T2	1026	1214	188	0.65	0.99	0.34	-0.32	-0.31	0	0	0	0	0	0
9/10/2024 21:39	53802	MBRG_T2	0	0	0	0	0	0	0.36	0.46	0	0	0	0	0	0
9/10/2024 21:39	52403	GRPA_T2	76	133	57	0.63	1.09	0.46	-0.14	-0.17	0	0	0	0	0	0
9/10/2024 21:39	59003	MIFF_T1	0	0	0	0	0	0	0.62	0.5	0	0	0	0	0	0
9/10/2024 21:39	46802	HEPB_T1	1	1	0	1	1.3	0.3	-0.24	-0.22	0	0	0	0	0	0
9/10/2024 21:39	46301	ROHR_T1	1	1	0	5.1	5.7	0.6	0	0	0	0	0	0	0	0
9/10/2024 21:40	52404	GRPA_T2	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
9/10/2024 21:40	53502	EVIL_T2	0	1	1	0	0.2	0.2	-0.23	-0.19	1	1	0	600	600	0
9/10/2024 21:40	15601	NSTR_T2	3	3	0	0.83	0.57	-0.26	0	0	0	0	0	0	0	0
9/10/2024 21:40	52006	LING_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
9/10/2024 21:40	52403	GRPA_T2	76	133	57	0.63	1.09	0.46	0	0	0	0	0	0	0	0
9/10/2024 21:40	52004	LING_T2	2	2	0	6.35	6.45	0.1	0	0	0	0	0	0	0	0
9/10/2024 21:40	53501	EVIL_T2	2	2	0	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
9/10/2024 21:40	41902	REED_T1	0	0	0	0	0	0	1.01	0.88	0	0	0	0	0	0
9/10/2024 21:40	52002	LING_T2	1	1	0	0.1	0.7	0.6	0.1	0.13	0	0	0	0	0	0
9/10/2024 21:40	41901	REED_T1	3	1	-2	0.17	0.2	0.03	0	0	0	0	0	0	0	0
9/10/2024 21:40	60101	COCA_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
9/10/2024 21:40	15602	NSTR_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
9/10/2024 21:40	52401	GRPA_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
9/10/2024 21:40	55105	WERT_T1	0	0	0	0	0	0	-0.33	-0.33	1	1	0	900	900	0
9/10/2024 21:40	52402	GRPA_T2	4	25	21	1.18	0.49	-0.69	-0.72	-0.75	0	0	0	0	0	0
9/10/2024 21:40	40101	HUNT_T2	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
9/10/2024 21:40	58401	MORO_T1	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
9/10/2024 21:40	44301	BEAV_T2	0	0	0	0	0	0	0.03	0.03	1	1	0	600	600	0
9/10/2024 21:41	66505	SMAN_T2	3	3	0	0.67	0.17	-0.5	0	0	0	0	0	0	0	0
9/10/2024 21:41	41901	REED_T1	3	1	-2	0.17	0.2	0.03	0	0	0	0	0	0	0	0
9/10/2024 21:41	42902	MIDD_T2	0	0	0	0	0	0	-0.33	-0.3	0	0	0	0	0	0
9/10/2024 21:41	49803	UNIV_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/10/2024 21:41	66504	SMAN_T2	0	0	0	0	0	0	-0.22	-0.28	0	0	0	0	0	0
9/10/2024 21:41	55101	WERT_T1	0	0	0	0	0	0	-1.29	-1.34	2	2	0	1500	1500	0
9/10/2024 21:41	59101	WALK_T2	0	0	0	0	0	0	1.91	3.18	2	0	-2	1200	0	-1200
9/10/2024 21:41	51702	OBER_T1	2	2	0	2.5	2.2	-0.3	-0.15	-0.17	0	0	0	0	0	0
9/10/2024 21:41	42903	MIDD_T2	2	2	0	0.45	0.95	0.5	0	0	0	0	0	0	0	0
9/10/2024 21:41	42802	SELI_T1	0	1	1	0	0.2	0.2	-0.34	-0.32	0	0	0	0	0	0
9/10/2024 21:41	59301	MCAL_T1	17	5	-12	0.27	0.66	0.39	-1.76	-1.11	1	0	-1	600	0	-600
9/10/2024 21:41	67602	WARW_T2	1	1	0	1.1	1.4	0.3	0.3	0.5	1	0	-1	300	0	-300
9/10/2024 21:41	47401	PENS_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
9/10/2024 21:41	59302	MCAL_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/10/2024 21:41	49804	UNIV_T1	1	2	1	0.5	0.15	-0.35	0.59	0.55	0	0	0	0	0	0
9/10/2024 21:41	45501	DERR_T2	1	1	0	0.2	0.8	0.6	-0.04	-0.1	2	2	0	1800	1800	0
9/10/2024 21:42	55001	NEWP_T1	5	6	1	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
9/10/2024 21:42	43101	SMIL_T2	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
9/10/2024 21:42	43108	SMIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
9/10/2024 21:42	52401	GRPA_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
9/10/2024 21:42	52403	GRPA_T2	76	133	57	0.63	1.09	0.46	-0.14	-0.17	0	0	0	0	0	0
9/10/2024 21:42	53501	EVIL_T2	2	2	0	0.9	0.85	-0.05	-0.01	-0.01	1	1	0	600	600	0
9/10/2024 21:42	43105	SMIL_T2	8	16	8	0.14	0.27	0.13	0	0	0	0	0	0	0	0
9/10/2024 21:42	44801	EDAN_T2	186	256	70	0.44	0.5	0.06	0	0	0	0	0	0	0	0
9/10/2024 21:42	44802	EDAN_T2	0	0	0	0	0	0	-0.7	-0.73	0	0	0	0	0	0
9/10/2024 21:42	42802	SELI_T1	0	1	1	0	0.2	0.2	-0.34	-0.32	0	0	0	0	0	0
9/10/2024 21:42	43103	SMIL_T2	16	22	6	0.52	0.56	0.04	0	0	0	0	0	0	0	0
9/10/2024 21:42	52404	GRPA_T2	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
9/10/2024 21:42	52402	GRPA_T2	4	25	21	1.18	0.49	-0.69	0	0	0	0	0	0	0	0
9/10/2024 21:42	41901	REED_T1	3	1	-2	0.17	0.2	0.03	0	0	0	0	0	0	0	0
9/10/2024 21:42	44301	BEAV_T2	0	0	0	0	0	0	0.03	0.03	1	1	0	600	600	0
9/10/2024 21:42	43102	SMIL_T2	8	9	1	0.53	0.8	0.27	0	0	0	0	0	0	0	0
9/10/2024 21:42	41902	REED_T1	0	0	0	0	0	0	1.01	0.88	0	0	0	0	0	0
9/10/2024 21:42	53502	EVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/10/2024 21:42	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:43	52402	GRPA_T2	4	25	21	1.18	0.49	-0.69	-0.72	-0.75	0	0	0	0	0	0
9/10/2024 21:43	57403	SPAN_T1	42	107	65	0.16	0.2	0.04	0	0	0	0	0	0	0	0
9/10/2024 21:43	46402	FLEM_T2	1026	1214	188	0.65	0.99	0.34	-0.32	-0.31	0	0	0	0	0	0
9/10/2024 21:43	52403	GRPA_T2	76	133	57	0.63	1.09	0.46	0	0	0	0	0	0	0	0
9/10/2024 21:43	43108	SMIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
9/10/2024 21:43	59301	MCAL_T1	17	5	-12	0.27	0.66	0.39	0	0	0	0	0	0	0	0
9/10/2024 21:43	43102	SMIL_T2	8	9	1	0.53	0.8	0.27	0	0	0	0	0	0	0	0
9/10/2024 21:43	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 21:43	59302	MCAL_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/10/2024 21:43	57401	SPAN_T1	53	265	212	0.2	0.26	0.06	-0.88	-0.87	1	1	0	600	600	0
9/10/2024 21:43	52401	GRPA_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
9/10/2024 21:43	43105	SMIL_T2	8	16	8	0.14	0.27	0.13	0	0	0	0	0	0	0	0
9/10/2024 21:43	46401	FLEM_T2	873	979	106	0.76	1.02	0.26	0	0	0	0	0	0	0	0
9/10/2024 21:43	52404	GRPA_T2	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
9/10/2024 21:43	43103	SMIL_T2	16	22	6	0.52	0.56	0.04	-0.87	-0.85	0	0	0	0	0	0
9/10/2024 21:44	41002	LAUR_T2	3	21	18	0.77	0.33	-0.44	0.08	0.05	0	0	0	0	0	0
9/10/2024 21:44	41001	LAUR_T2	0	65	65	0	0.22	0.22	0	0	0	0	0	0	0	0
9/10/2024 21:44	43102	SMIL_T2	8	9	1	0.53	0.8	0.27	0	0	0	0	0	0	0	0
9/10/2024 21:44	43108	SMIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
9/10/2024 21:44	43104	SMIL_T2	0	0	0	0	0	0	-0.75	-0.76	1	1	0	300	300	0
9/10/2024 21:44	43103	SMIL_T2	16	22	6	0.52	0.56	0.04	0	0	0	0	0	0	0	0
9/10/2024 21:44	43105	SMIL_T2	8	16	8	0.14	0.27	0.13	0	0	0	0	0	0	0	0
9/10/2024 21:45	45602	WOOL_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
9/10/2024 21:45	46901	MNTG_T2	0	0	0	0	0	0	0.07	0.1	1	1	0	1200	1200	0
9/10/2024 21:47	65001	NEFF_T2	0	0	0	0	0	0	-0.83	-0.9	1	1	0	1200	1200	0
9/10/2024 21:57	47001	HUGH_T2	4	3	-1	7.1	8.47	1.37	-0.82	-0.25	0	0	0	0	0	0
9/10/2024 21:58	47001	HUGH_T2	4	3	-1	7.1	8.47	1.37	-0.82	-0.25	0	0	0	0	0	0
9/10/2024 21:58	67602	WARW_T2	1	1	0	1.4	1.6	0.2	0.99	0.96	0	0	0	0	0	0
9/10/2024 22:08	14401	SSLA_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
9/10/2024 22:15	10801	CHHI_T1	0	0	0	0	0	0	-0.73	-0.74	1	1	0	900	900	0
9/10/2024 22:23	13904	SEID_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
9/10/2024 22:27	52402	GRPA_T2	4	4	0	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
9/10/2024 22:27	52403	GRPA_T2	63	97	34	0.81	0.91	0.1	-0.27	-0.26	0	0	0	0	0	0
9/10/2024 22:27	52404	GRPA_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/10/2024 22:27	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/10/2024 22:32	13904	SEID_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
9/10/2024 22:39	55405	SHER_T1	6	6	0	0.52	0.47	-0.05	-0.17	-0.17	0	0	0	0	0	0
9/10/2024 22:43	50107	HARR_T3	1	1	0	6.7	6.5	-0.2	0	0	0	0	0	0	0	0
9/10/2024 22:43	50103	HARR_T3	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/10/2024 22:43	50105	HARR_T3	6	6	0	5.98	5.98	0	0	0	0	0	0	0	0	0
9/10/2024 22:43	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2024 22:51	13704	SCHN_T2	0	4	4	0	0.15	0.15	-0.34	-0.35	0	0	0	0	0	0
9/10/2024 22:52	60101	COCA_T1	7	6	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/10/2024 23:33	10702	CATA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/10/2024 23:33	10705	CATA_T2	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
9/11/2024 7:11	21501	CEAV_T2	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
9/11/2024 7:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 7:24	20102	AVOC_T1	0	0	0	0	0	0	-0.39	-0.36	0	0	0	0	0	0
9/11/2024 7:26	15203	KAR_T2	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
9/11/2024 7:36	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 7:36	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 7:36	10206	ALLE_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/11/2024 7:36	10102	ALLE_T2	15	19	4	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
9/11/2024 7:37	67503	WEWI_T2	1	1	0	8.9	9.1	0.2	0	0	0	0	0	0	0	0
9/11/2024 7:37	67502	WEWI_T2	27	0	-27	0.12	0	-0.12	-0.25	-0.25	0	0	0	0	0	0
9/11/2024 7:38	10102	ALLE_T2	15	19	4	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
9/11/2024 7:38	43301	WATS_T2	0	1	1	0	0.2	0.2	-0.69	-0.67	1	1	0	900	900	0
9/11/2024 7:38	10206	ALLE_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/11/2024 7:38	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 7:39	12807	MICK_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
9/11/2024 7:39	66903	SHIL_T2	0	0	0	0	0	0	-0.97	-0.94	0	0	0	0	0	0
9/11/2024 7:39	12802	MICK_T1	0	0	0	0	0	0	-1.24	-1.17	0	0	0	0	0	0
9/11/2024 7:40	10102	ALLE_T2	15	19	4	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
9/11/2024 7:40	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 7:40	10206	ALLE_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/11/2024 7:41	67503	WEWI_T2	1	1	0	8.9	9.1	0.2	0	0	0	0	0	0	0	0
9/11/2024 7:41	67502	WEWI_T2	27	0	-27	0.12	0	-0.12	-0.25	-0.25	0	0	0	0	0	0
9/11/2024 7:43	12807	MICK_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
9/11/2024 7:43	12802	MICK_T1	0	0	0	0	0	0	-1.24	-1.17	0	0	0	0	0	0
9/11/2024 7:43	11203	ELHE_T1	0	0	0	0	0	0	1.06	1.22	0	0	0	0	0	0
9/11/2024 7:44	11101	EGYP_T1	0	0	0	0	0	0	0.05	0.26	1	1	0	1200	1200	0
9/11/2024 7:44	12802	MICK_T1	0	0	0	0	0	0	-1.24	-1.17	0	0	0	0	0	0
9/11/2024 7:44	12807	MICK_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
9/11/2024 7:49	12605	MACA_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
9/11/2024 7:49	48301	ORWI_T1	2	2	0	4.8	5.3	0.5	-0.31	-0.39	1	1	0	900	900	0
9/11/2024 7:50	64503	LAVI_T1	0	0	0	0	0	0	-1.87	-2.03	2	2	0	2400	2400	0
9/11/2024 7:51	12605	MACA_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
9/11/2024 7:51	48301	ORWI_T1	2	2	0	4.8	5.3	0.5	-0.39	-0.4	1	1	0	900	900	0
9/11/2024 7:54	67103	SPRI_T1	0	0	0	0	0	0	0.54	-0.03	0	0	0	0	0	0
9/11/2024 7:55	12802	MICK_T1	0	0	0	0	0	0	-1.17	-1.07	0	0	0	0	0	0
9/11/2024 7:55	12807	MICK_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
9/11/2024 7:57	45502	DERR_T2	1	5	4	1.2	0.55	-0.65	0	0	0	0	0	0	0	0
9/11/2024 7:57	53601	DALM_T2	1	1	0	1.3	1.3	0	-0.04	-0.08	0	0	0	0	0	0
9/11/2024 7:57	45501	DERR_T2	0	0	0	0	0	0	0.66	0.59	2	2	0	1800	1800	0
9/11/2024 7:59	14202	EALL_T2	3	2	-1	0.33	0.35	0.02	0	0	0	0	0	0	0	0
9/11/2024 7:59	14205	EALL_T2	0	0	0	0	0	0	-0.37	-0.28	0	0	0	0	0	0
9/11/2024 8:00	44801	EDAN_T2	43	163	120	0.25	0.55	0.3	-1.67	-1.71	0	0	0	0	0	0
9/11/2024 8:02	22903	HARW_T1	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
9/11/2024 8:02	22901	HARW_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 8:07	55002	NEWP_T1	1	5	4	1	0.68	-0.32	0	0	0	0	0	0	0	0
9/11/2024 8:07	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 8:09	67501	WEWI_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/11/2024 8:09	46001	BERW_T1	0	0	0	0	0	0	0.8	0.67	0	0	0	0	0	0
9/11/2024 8:09	67504	WEWI_T1	0	0	0	0	0	0	-0.39	-0.29	1	1	0	900	900	0
9/11/2024 8:09	67505	WEWI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/11/2024 8:10	67501	WEWI_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/11/2024 8:10	67505	WEWI_T1	1	0	-1	0.1	0	-0.1	-0.19	-0.21	1	1	0	900	900	0
9/11/2024 8:10	67503	WEWI_T2	1	1	0	9	8.8	-0.2	-0.26	-0.24	0	0	0	0	0	0
9/11/2024 8:10	60301	TWVA_T2	0	0	0	0	0	0	-3.27	-3.2	2	2	0	1800	1800	0
9/11/2024 8:12	62605	ENGL_T1	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
9/11/2024 8:12	67503	WEWI_T2	1	1	0	9	8.8	-0.2	-0.26	-0.24	0	0	0	0	0	0
9/11/2024 8:13	44301	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 8:13	67503	WEWI_T2	1	1	0	9	8.8	-0.2	-0.26	-0.24	0	0	0	0	0	0
9/11/2024 8:14	22002	BOHE_T1	0	0	0	0	0	0	0.25	0.21	0	0	0	0	0	0
9/11/2024 8:14	62605	ENGL_T1	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
9/11/2024 8:14	45502	DERR_T2	2	5	3	0.6	0.45	-0.15	0.33	0.33	1	1	0	300	300	0
9/11/2024 8:14	22003	BOHE_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/11/2024 8:14	45501	DERR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 8:15	62605	ENGL_T1	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
9/11/2024 8:17	62607	ENGL_T1	0	0	0	0	0	0	-1.1	-1.09	1	1	0	300	300	0
9/11/2024 8:18	58102	NEKI_T1	1	1	0	1.8	0.8	-1	-0.97	0.37	1	0	-1	1200	0	-1200
9/11/2024 8:18	64802	MONE_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
9/11/2024 8:18	64801	MONE_T2	1	2	1	0.9	1	0.1	0	0	0	0	0	0	0	0
9/11/2024 8:22	13503	MCMI_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 8:23	66503	SMAN_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
9/11/2024 8:23	65601	QVIL_T2	0	0	0	0	0	0	-1.17	-0.98	1	1	0	900	900	0
9/11/2024 8:24	58705	ROSE_T2	5	5	0	1.88	2.2	0.32	0	0	0	0	0	0	0	0
9/11/2024 8:24	58701	ROSE_T2	0	0	0	0	0	0	-0.24	-0.23	1	1	0	600	600	0
9/11/2024 8:25	58701	ROSE_T2	0	0	0	0	0	0	-0.24	-0.23	1	1	0	600	600	0
9/11/2024 8:25	58705	ROSE_T2	5	5	0	1.88	2.2	0.32	0	0	0	0	0	0	0	0
9/11/2024 8:28	16002	DORN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 8:28	16006	DORN_T2	0	0	0	0	0	0	0.75	0.72	0	0	0	0	0	0
9/11/2024 8:30	47403	PENS_T1	1	1	0	0.1	1.2	1.1	0	0	0	0	0	0	0	0
9/11/2024 8:30	67703	WERN_T2	0	0	0	0	0	0	-0.2	-0.2	1	1	0	900	900	0
9/11/2024 8:30	47401	PENS_T1	2	0	-2	0.2	0	-0.2	-0.83	-0.63	0	0	0	0	0	0
9/11/2024 8:31	44801	EDAN_T2	163	203	40	0.55	0.6	0.05	-1.7	-1.63	0	0	0	0	0	0
9/11/2024 8:31	45501	DERR_T2	1	1	0	0.2	0.4	0.2	0.56	0.52	2	2	0	1800	1800	0
9/11/2024 8:31	45502	DERR_T2	2	3	1	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
9/11/2024 8:32	40101	HUNT_T2	2	1	-1	0.2	0.2	0	-0.19	-0.18	0	0	0	0	0	0
9/11/2024 8:32	54502	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/11/2024 8:32	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/11/2024 8:32	54503	ENOL_T2	0	0	0	0	0	0	-1.57	-1.52	2	2	0	1200	1200	0
9/11/2024 8:33	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	-1.32	-1.3	2	2	0	1200	1200	0
9/11/2024 8:33	63305	GREE_T1	0	1	1	0	0.2	0.2	-1.83	-1.85	1	1	0	900	900	0
9/11/2024 8:33	54503	ENOL_T2	0	0	0	0	0	0	-1.57	-1.52	2	2	0	1200	1200	0
9/11/2024 8:33	54502	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/11/2024 8:34	63305	GREE_T1	0	1	1	0	0.2	0.2	-1.83	-1.85	1	1	0	900	900	0
9/11/2024 8:36	44801	EDAN_T2	163	203	40	0.55	0.6	0.05	-1.63	-1.63	0	0	0	0	0	0
9/11/2024 8:36	66703	STRA_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
9/11/2024 8:37	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 8:37	66703	STRA_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
9/11/2024 8:39	54602	SUMM_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/11/2024 8:39	54601	SUMM_T2	11	14	3	0.55	0.65	0.1	0	0	0	0	0	0	0	0
9/11/2024 8:39	54603	SUMM_T2	0	0	0	0	0	0	-0.16	-0.09	1	1	0	900	900	0
9/11/2024 8:39	59101	WALK_T2	1	1	0	3.1	4.2	1.1	1.86	1.94	1	1	0	600	600	0
9/11/2024 8:40	45902	AUBU_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/11/2024 8:40	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0.47	0.57	2	2	0	1500	1500	0
9/11/2024 8:40	45901	AUBU_T1	0	0	0	0	0	0	1.77	1.86	0	0	0	0	0	0
9/11/2024 8:40	59101	WALK_T2	1	1	0	3.1	4.2	1.1	1.86	1.94	1	1	0	600	600	0
9/11/2024 8:42	54602	SUMM_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/11/2024 8:42	59101	WALK_T2	1	1	0	3.1	4.2	1.1	1.86	1.94	1	1	0	600	600	0
9/11/2024 8:42	66703	STRA_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
9/11/2024 8:42	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 8:42	54601	SUMM_T2	11	14	3	0.55	0.65	0.1	-1.86	-1.8	2	2	0	2100	2100	0
9/11/2024 8:43	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0.47	0.57	2	2	0	1500	1500	0
9/11/2024 8:43	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 8:44	63501	HEID_TBK1-2	47	34	-13	0.67	0.5	-0.17	0.17	0.22	1	1	0	900	900	0
9/11/2024 8:45	44301	BEAV_T2	0	0	0	0	0	0	0.47	0.57	2	2	0	1500	1500	0
9/11/2024 8:45	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/11/2024 8:46	40101	HUNT_T2	1	1	0	0.2	0.3	0.1	-0.18	-0.18	0	0	0	0	0	0
9/11/2024 8:47	54602	SUMM_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/11/2024 8:47	46506	LOHA_T1	3	3	0	6.27	6.2	-0.07	0	0	0	0	0	0	0	0
9/11/2024 8:47	54603	SUMM_T2	0	0	0	0	0	0	-0.16	-0.09	1	1	0	900	900	0
9/11/2024 8:47	63501	HEID_TBK1-2	34	35	1	0.54	0.48	-0.06	0.17	0.22	1	1	0	900	900	0
9/11/2024 8:47	46504	LOHA_T1	3	10	7	1.03	0.39	-0.64	0	0	0	0	0	0	0	0
9/11/2024 8:47	46501	LOHA_T1	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
9/11/2024 8:47	54601	SUMM_T2	12	11	-1	0.61	0.33	-0.28	0	0	0	0	0	0	0	0
9/11/2024 8:48	50501	MECH_T1	4	4	0	1.6	1.13	-0.47	-0.91	-0.9	0	0	0	0	0	0
9/11/2024 8:48	50502	MECH_T1	97	1	-96	0.18	2.6	2.42	-0.3	-0.25	2	2	0	2100	2100	0
9/11/2024 8:49	54701	NEBL_T1	6	3	-3	0.5	0.6	0.1	0	0	1	1	0	600	600	0
9/11/2024 8:49	54501	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 8:49	54502	ENOL_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/11/2024 8:49	54505	ENOL_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
9/11/2024 8:49	54506	ENOL_T2	0	0	0	0	0	0	-0.03	0.04	1	1	0	600	600	0
9/11/2024 8:50	44203	POIN_T2	0	0	0	0	0	0	0.23	0.23	2	2	0	2100	2100	0
9/11/2024 8:50	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 8:52	56501	ROCK_T2	2	2	0	0.65	0.5	-0.15	-0.09	-0.08	0	0	0	0	0	0
9/11/2024 8:53	57205	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 8:53	15603	NSTR_T2	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
9/11/2024 8:53	57203	ROSS_T1	0	0	0	0	0	0	-0.33	-0.29	0	0	0	0	0	0
9/11/2024 8:53	15601	NSTR_T2	3	3	0	0.73	0.47	-0.26	0	0	0	0	0	0	0	0
9/11/2024 8:55	67605	WARW_T1	14	13	-1	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
9/11/2024 8:55	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 8:55	59102	WALK_T2	0	5	5	0	0.26	0.26	0	0	0	0	0	0	0	0
9/11/2024 8:55	59101	WALK_T2	1	1	0	4.4	1	-3.4	1.94	1.77	1	1	0	600	600	0
9/11/2024 8:55	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 8:56	45902	AUBU_T1	1	1	0	0.3	0.8	0.5	-0.64	-0.63	1	1	0	600	600	0
9/11/2024 8:56	56501	ROCK_T2	2	2	0	0.65	0.5	-0.15	-0.09	-0.08	0	0	0	0	0	0
9/11/2024 8:58	46001	BERW_T1	0	0	0	0	0	0	0.82	0.7	0	0	0	0	0	0
9/11/2024 8:58	54203	PENN_T1	18	18	0	1.21	0.67	-0.54	0.92	0.95	0	0	0	0	0	0
9/11/2024 8:58	54201	PENN_T1	124	25	-99	0.34	0.47	0.13	0	0	0	0	0	0	0	0
9/11/2024 8:59	11507	FREE_T2	0	0	0	0	0	0	1.02	0.97	0	0	0	0	0	0
9/11/2024 8:59	63403	HONY_T2	0	0	0	0	0	0	0.28	0.26	1	1	0	600	600	0
9/11/2024 8:59	44802	EDAN_T2	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
9/11/2024 8:59	44801	EDAN_T2	190	224	34	0.58	0.62	0.04	0	0	0	0	0	0	0	0
9/11/2024 9:00	44802	EDAN_T2	0	0	0	0	0	0	-1.5	-1.49	0	0	0	0	0	0
9/11/2024 9:00	44801	EDAN_T2	190	219	29	0.62	0.63	0.01	0	0	0	0	0	0	0	0
9/11/2024 9:01	40601	PIGR_T1	103	104	1	0.28	0.28	0	0	0	0	0	0	0	0	0
9/11/2024 9:01	40602	PIGR_T1	1	1	0	0.5	0.8	0.3	-0.59	-0.64	1	1	0	600	600	0
9/11/2024 9:01	44802	EDAN_T2	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
9/11/2024 9:01	44801	EDAN_T2	190	219	29	0.62	0.63	0.01	0	0	0	0	0	0	0	0
9/11/2024 9:03	44801	EDAN_T2	190	219	29	0.62	0.63	0.01	0	0	0	0	0	0	0	0
9/11/2024 9:03	44802	EDAN_T2	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
9/11/2024 9:04	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	-0.65	-0.65	1	1	0	600	600	0
9/11/2024 9:05	40601	PIGR_T1	103	104	1	0.28	0.28	0	0	0	0	0	0	0	0	0
9/11/2024 9:05	43108	SMIL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/11/2024 9:05	40602	PIGR_T1	1	1	0	0.5	0.8	0.3	-0.59	-0.64	1	1	0	600	600	0
9/11/2024 9:05	43104	SMIL_T2	0	0	0	0	0	0	-0.8	-0.78	1	1	0	300	300	0
9/11/2024 9:05	43102	SMIL_T2	5	4	-1	0.24	0.3	0.06	0	0	0	0	0	0	0	0
9/11/2024 9:05	43103	SMIL_T2	13	17	4	0.38	0.58	0.2	0	0	0	0	0	0	0	0
9/11/2024 9:08	40601	PIGR_T1	103	104	1	0.28	0.28	0	0	0	0	0	0	0	0	0
9/11/2024 9:08	40602	PIGR_T1	1	1	0	0.5	0.8	0.3	-1.29	-1.23	2	2	0	1200	1200	0
9/11/2024 9:09	20403	ASHF_T2	1	2	1	0.2	0.3	0.1	0.33	0.43	0	0	0	0	0	0
9/11/2024 9:09	66703	STRA_T1	0	0	0	0	0	0	-0.05	0.05	0	0	0	0	0	0
9/11/2024 9:09	20401	ASHF_T2	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
9/11/2024 9:09	15701	TANN_T1	1	2	1	4.9	2.8	-2.1	0	0	0	0	0	0	0	0
9/11/2024 9:09	15704	TANN_T1	0	0	0	0	0	0	-0.31	-0.35	0	0	0	0	0	0
9/11/2024 9:10	20403	ASHF_T2	1	2	1	0.2	0.3	0.1	0.33	0.43	0	0	0	0	0	0
9/11/2024 9:10	20401	ASHF_T2	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
9/11/2024 9:11	60101	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 9:11	12601	MACA_T1	0	0	0	0	0	0	0.74	0.79	0	0	0	0	0	0
9/11/2024 9:12	11203	ELHE_T1	0	0	0	0	0	0	1.02	1.06	0	0	0	0	0	0
9/11/2024 9:12	60101	COCA_T1	0	0	0	0	0	0	0.28	0.33	0	0	0	0	0	0
9/11/2024 9:12	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
9/11/2024 9:12	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
9/11/2024 9:12	11205	ELHE_T1	1	1	0	6	7.4	1.4	0	0	0	0	0	0	0	0
9/11/2024 9:12	57002	WHHI_T2	0	0	0	0	0	0	-1.41	-1.38	1	1	0	1200	1200	0
9/11/2024 9:14	46803	HEPB_T2	0	1	1	0	0.1	0.1	0.57	0.59	0	0	0	0	0	0
9/11/2024 9:14	46801	HEPB_T2	2	2	0	0.95	1	0.05	0	0	0	0	0	0	0	0
9/11/2024 9:14	60101	COCA_T1	0	0	0	0	0	0	0.28	0.33	0	0	0	0	0	0
9/11/2024 9:14	44802	EDAN_T2	0	0	0	0	0	0	-0.74	-0.68	0	0	0	0	0	0
9/11/2024 9:14	44801	EDAN_T2	190	219	29	0.62	0.63	0.01	0	0	0	0	0	0	0	0
9/11/2024 9:15	44801	EDAN_T2	218	162	-56	0.63	0.61	-0.02	0	0	0	0	0	0	0	0
9/11/2024 9:15	44802	EDAN_T2	0	0	0	0	0	0	-0.74	-0.68	0	0	0	0	0	0
9/11/2024 9:16	44801	EDAN_T2	218	162	-56	0.63	0.61	-0.02	0	0	0	0	0	0	0	0
9/11/2024 9:16	44802	EDAN_T2	0	0	0	0	0	0	-0.74	-0.68	0	0	0	0	0	0
9/11/2024 9:17	44802	EDAN_T2	0	0	0	0	0	0	-0.74	-0.68	0	0	0	0	0	0
9/11/2024 9:17	11205	ELHE_T1	1	1	0	7.4	4.8	-2.6	0	0	0	0	0	0	0	0
9/11/2024 9:17	44801	EDAN_T2	218	162	-56	0.63	0.61	-0.02	0	0	0	0	0	0	0	0
9/11/2024 9:17	11203	ELHE_T1	0	0	0	0	0	0	1.02	1.06	0	0	0	0	0	0
9/11/2024 9:18	44801	EDAN_T2	218	162	-56	0.63	0.61	-0.02	0	0	0	0	0	0	0	0
9/11/2024 9:18	44802	EDAN_T2	0	0	0	0	0	0	-0.74	-0.68	0	0	0	0	0	0
9/11/2024 9:18	45802	HEGI_T2	5	6	1	0.28	0.4	0.12	3.14	3.08	0	0	0	0	0	0
9/11/2024 9:19	44801	EDAN_T2	218	162	-56	0.63	0.61	-0.02	-1.63	-1.62	0	0	0	0	0	0
9/11/2024 9:21	42201	SHEN_T2	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
9/11/2024 9:23	15203	SFAR_T2	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
9/11/2024 9:23	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 9:23	66502	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/11/2024 9:23	66504	SMAN_T2	0	0	0	0	0	0	-0.65	-0.48	0	0	0	0	0	0
9/11/2024 9:24	15203	SFAR_T2	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
9/11/2024 9:24	66504	SMAN_T2	0	0	0	0	0	0	-0.33	-0.24	0	0	0	0	0	0
9/11/2024 9:24	57702	PAXT_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
9/11/2024 9:24	55101	WERT_T1	0	0	0	0	0	0	-1.36	-1.31	4	4	0	3000	3000	0
9/11/2024 9:24	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 9:24	66502	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/11/2024 9:25	57101	SPHI_T2	6	6	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/11/2024 9:25	57106	SPHI_T2	3	3	0	1.3	1.33	0.03	0	0	0	0	0	0	0	0
9/11/2024 9:25	57104	SPHI_T2	2	2	0	1.35	0.7	-0.65	-1.02	-0.99	0	0	0	0	0	0
9/11/2024 9:25	15604	NSTR_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
9/11/2024 9:25	15203	SFAR_T2	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
9/11/2024 9:26	67502	WEWI_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
9/11/2024 9:26	67503	WEWI_T2	1	1	0	8.8	8.8	0	-0.23	-0.11	0	0	0	0	0	0
9/11/2024 9:26	54203	PENN_T1	18	18	0	0.64	0.74	0.1	0.94	0.98	0	0	0	0	0	0
9/11/2024 9:26	54201	PENN_T1	23	27	4	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
9/11/2024 9:26	55101	WERT_T1	0	0	0	0	0	0	-2.04	-1.96	6	6	0	4500	4500	0
9/11/2024 9:28	47002	HUGH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 9:28	47001	HUGH_T2	3	3	0	9.17	9.4	0.23	-0.64	-0.91	0	0	0	0	0	0
9/11/2024 9:29	53501	EVIL_T2	3	2	-1	1.03	0.95	-0.08	0	0	0	0	0	0	0	0
9/11/2024 9:29	53502	EVIL_T2	0	0	0	0	0	0	-0.17	-0.12	2	2	0	1200	1200	0
9/11/2024 9:34	55002	NEWP_T1	11	11	0	0.82	0.86	0.04	0	0	0	0	0	0	0	0
9/11/2024 9:34	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 9:36	55002	NEWP_T1	11	11	0	0.82	0.86	0.04	0	0	0	0	0	0	0	0
9/11/2024 9:36	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 9:38	66502	SMAN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/11/2024 9:38	55002	NEWP_T1	11	11	0	0.82	0.86	0.04	0	0	0	0	0	0	0	0
9/11/2024 9:38	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 9:38	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 9:38	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 9:40	67605	WARW_T1	8	9	1	0.4	0.27	-0.13	-2.08	-2.04	0	0	0	0	0	0
9/11/2024 9:41	66502	SMAN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/11/2024 9:41	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 9:41	66504	SMAN_T2	0	0	0	0	0	0	-0.24	-0.21	0	0	0	0	0	0
9/11/2024 9:45	53902	HALI_T2	2	2	0	2.85	2.65	-0.2	0	0	0	0	0	0	0	0
9/11/2024 9:45	53501	EVIL_T2	2	2	0	0.55	0.5	-0.05	-0.01	-0.01	2	3	1	1200	2100	900
9/11/2024 9:45	53903	HALI_T2	2	2	0	1.25	0.8	-0.45	0	0	0	0	0	0	0	0
9/11/2024 9:45	41602	CLEV_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/11/2024 9:45	53901	HALI_T2	1	1	0	1.3	1	-0.3	-2.51	-2.55	0	0	0	0	0	0
9/11/2024 9:46	53903	HALI_T2	2	2	0	1.25	0.8	-0.45	0	0	0	0	0	0	0	0
9/11/2024 9:46	53501	EVIL_T2	2	2	0	0.55	0.5	-0.05	-0.01	-0.01	2	3	1	1200	2100	900
9/11/2024 9:46	54505	ENOL_T2	1	1	0	0.5	0.3	-0.2	-0.65	-0.65	1	1	0	600	600	0
9/11/2024 9:46	55101	WERT_T1	0	0	0	0	0	0	-0.65	-0.69	2	2	0	1500	1500	0
9/11/2024 9:46	11402	FARM_T1	1	0	-1	9.7	0	-9.7	0	0	0	0	0	0	0	0
9/11/2024 9:46	53902	HALI_T2	2	2	0	2.85	2.65	-0.2	0	0	0	0	0	0	0	0
9/11/2024 9:46	53901	HALI_T2	1	1	0	1.3	1	-0.3	-2.51	-2.55	0	0	0	0	0	0
9/11/2024 9:46	11405	FARM_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/11/2024 9:47	53902	HALI_T2	2	2	0	2.85	2.65	-0.2	0	0	0	0	0	0	0	0
9/11/2024 9:47	53901	HALI_T2	1	1	0	1.3	1	-0.3	-1.26	-1.28	0	0	0	0	0	0
9/11/2024 9:47	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
9/11/2024 9:47	53903	HALI_T2	2	2	0	1.25	0.8	-0.45	0	0	0	0	0	0	0	0
9/11/2024 9:47	46506	LOHA_T1	3	3	0	5.93	5.9	-0.03	0	0	0	0	0	0	0	0
9/11/2024 9:47	46001	BERW_T1	0	1	1	0	0	0	0.8	0.76	0	0	0	0	0	0
9/11/2024 9:47	46501	LOHA_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
9/11/2024 9:47	46504	LOHA_T1	3	3	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/11/2024 9:48	11402	FARM_T1	1	0	-1	9.7	0	-9.7	0	0	0	0	0	0	0	0
9/11/2024 9:48	53501	EVIL_T2	2	2	0	0.55	0.5	-0.05	-0.02	-0.02	6	9	3	3600	6300	2700
9/11/2024 9:48	11405	FARM_T1	1	1	0	0.2	0.4	0.2	-0.99	-0.99	1	1	0	1200	1200	0
9/11/2024 9:49	50103	HARR_T3	2	2	0	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
9/11/2024 9:49	50105	HARR_T3	6	6	0	6.35	6.5	0.15	0	0	0	0	0	0	0	0
9/11/2024 9:49	50107	HARR_T3	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
9/11/2024 9:50	64802	MONE_T2	1	37	36	0.2	0.16	-0.04	0.33	0.33	0	0	0	0	0	0
9/11/2024 9:50	40101	HUNT_T2	1	0	-1	0.3	0	-0.3	-0.18	-0.2	0	0	0	0	0	0
9/11/2024 9:50	64801	MONE_T2	1	3	2	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
9/11/2024 9:53	57401	SPAN_T1	24	19	-5	0.44	0.55	0.11	-0.23	-0.24	0	0	0	0	0	0
9/11/2024 9:53	57403	SPAN_T1	12	21	9	0.2	0.24	0.04	0	0	0	0	0	0	0	0
9/11/2024 9:54	66502	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/11/2024 9:54	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 9:54	57403	SPAN_T1	12	21	9	0.2	0.24	0.04	0	0	0	0	0	0	0	0
9/11/2024 9:54	57401	SPAN_T1	24	19	-5	0.44	0.55	0.11	-0.23	-0.24	0	0	0	0	0	0
9/11/2024 9:54	48302	ORWE_T2	2	2	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
9/11/2024 9:54	66501	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/11/2024 9:55	67503	WEWI_T2	1	1	0	8.8	9.2	0.4	-0.2	-0.1	0	0	0	0	0	0
9/11/2024 9:55	57403	SPAN_T1	12	21	9	0.2	0.24	0.04	0	0	0	0	0	0	0	0
9/11/2024 9:55	60801	BUCK_T1	0	1	1	0	0.3	0.3	0.03	0.14	0	0	0	0	0	0
9/11/2024 9:55	67502	WEWI_T2	1	26	25	0.9	0.26	-0.64	-0.17	-0.13	0	0	0	0	0	0
9/11/2024 9:55	57401	SPAN_T1	24	19	-5	0.44	0.55	0.11	-0.46	-0.49	0	0	0	0	0	0
9/11/2024 9:55	60803	BUCK_T1	0	7	7	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 9:56	57403	SPAN_T1	12	21	9	0.2	0.24	0.04	0.05	0.1	0	0	0	0	0	0
9/11/2024 9:56	45902	AUBU_T1	1	1	0	0.8	1.4	0.6	-0.6	-0.61	1	1	0	600	600	0
9/11/2024 9:56	64602	LEOL_T1	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
9/11/2024 9:56	57401	SPAN_T1	24	19	-5	0.44	0.55	0.11	0	0	0	0	0	0	0	0
9/11/2024 9:57	66501	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/11/2024 9:57	66505	SMAN_T2	0	0	0	0	0	0	1	0.94	1	1	0	900	900	0
9/11/2024 9:57	40201	BEGA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/11/2024 9:57	66502	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/11/2024 9:58	67503	WEWI_T2	1	1	0	8.8	9.2	0.4	-0.2	-0.1	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/11/2024 9:58	67502	WEWI_T2	1	26	25	0.9	0.26	-0.64	0	0	0	0	0	0	0	0
9/11/2024 10:00	46501	LOHA_T1	0	1	1	0	0	0	0.76	0.81	0	0	0	0	0	0
9/11/2024 10:00	52403	GRPA_T2	98	97	-1	0.98	0.92	-0.06	-0.14	-0.14	0	0	0	0	0	0
9/11/2024 10:00	66505	SMAN_T2	0	0	0	0	0	0	1	0.94	1	1	0	900	900	0
9/11/2024 10:00	50103	HARR_T3	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/11/2024 10:00	12604	MACA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:00	47402	PENS_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
9/11/2024 10:00	66203	SISP_T2	0	0	0	0	0	0	-0.38	-0.42	2	2	0	1800	1800	0
9/11/2024 10:00	55002	NEWP_T1	7	8	1	1.16	0.95	-0.21	0	0	0	0	0	0	0	0
9/11/2024 10:00	12605	MACA_T1	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
9/11/2024 10:00	52004	LING_T2	3	6	3	4.4	2.32	-2.08	0	0	0	0	0	0	0	0
9/11/2024 10:00	54603	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 10:00	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
9/11/2024 10:00	15203	SFAR_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
9/11/2024 10:00	12601	MACA_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:00	54601	SUMM_T2	4	2	-2	0.3	0.3	0	-1.73	-1.71	2	2	0	2100	2100	0
9/11/2024 10:00	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/11/2024 10:00	15204	SFAR_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/11/2024 10:00	52401	GRPA_T2	0	17	17	0	9.76	9.76	0	0	0	0	0	0	0	0
9/11/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
9/11/2024 10:00	50105	HARR_T3	6	6	0	6.57	6.57	0	0	0	0	0	0	0	0	0
9/11/2024 10:00	12302	LANA_T2	0	0	0	0	0	0	-1.59	-1.59	2	2	0	1500	1500	0
9/11/2024 10:00	50107	HARR_T3	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
9/11/2024 10:00	47403	PENS_T1	1	1	0	1.1	1.8	0.7	0	0	0	0	0	0	0	0
9/11/2024 10:00	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/11/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
9/11/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.55	0.6	0	0	0	0	0	0
9/11/2024 10:00	46506	LOHA_T1	3	3	0	5.9	5.77	-0.13	0	0	0	0	0	0	0	0
9/11/2024 10:00	50502	MECH_T1	1	1	0	2.7	2.5	-0.2	0	0	0	0	0	0	0	0
9/11/2024 10:00	20601	GRWO_T2	0	9	9	0	0.2	0.2	1.2	1.3	0	0	0	0	0	0
9/11/2024 10:00	45801	HEGI_T1	0	0	0	0	0	0	0.03	0.09	1	1	0	900	900	0
9/11/2024 10:00	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 10:00	62607	ENGL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/11/2024 10:00	13503	MCMI_T2	4	4	0	0.48	0.48	0	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 10:00	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 10:00	67502	WEWI_T2	11	25	14	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
9/11/2024 10:00	50501	MECH_T1	4	4	0	1.05	0.98	-0.07	-0.52	-0.5	0	0	0	0	0	0
9/11/2024 10:00	62605	ENGL_T1	1	1	0	0.5	0.1	-0.4	-1.27	-1.18	0	0	0	0	0	0
9/11/2024 10:00	47401	PENS_T1	1	34	33	0.2	0.33	0.13	0.51	-0.62	0	0	0	0	0	0
9/11/2024 10:00	50506	MECH_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/11/2024 10:00	48301	ORWI_T1	2	2	0	4.6	4.45	-0.15	-0.42	-0.3	1	1	0	900	900	0
9/11/2024 10:00	67503	WEWI_T2	1	1	0	9.2	8.9	-0.3	-0.2	-0.1	0	0	0	0	0	0
9/11/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	-0.54	-1.12	0	0	0	0	0	0
9/11/2024 10:00	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
9/11/2024 10:00	46504	LOHA_T1	3	2	-1	0.8	0.8	0	0	0	0	0	0	0	0	0
9/11/2024 10:00	52402	GRPA_T2	3	7	4	0.43	0.34	-0.09	0	0	0	0	0	0	0	0
9/11/2024 10:00	42302	MOWR_T2	0	0	0	0	0	0	0.08	0.13	0	0	0	0	0	0
9/11/2024 10:04	52004	LING_T2	3	6	3	4.4	2.32	-2.08	0.42	0.4	0	0	0	0	0	0
9/11/2024 10:05	65401	MARI_T1	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
9/11/2024 10:06	65401	MARI_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
9/11/2024 10:06	64602	LEOL_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
9/11/2024 10:06	67604	WARW_T1	0	0	0	0	0	0	0.76	0.76	0	0	0	0	0	0
9/11/2024 10:06	20601	GRWO_T2	0	9	9	0	0.2	0.2	1.3	1.3	0	0	0	0	0	0
9/11/2024 10:06	67605	WARW_T1	5	5	0	0.3	0.36	0.06	0	0	0	0	0	0	0	0
9/11/2024 10:07	62605	ENGL_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
9/11/2024 10:07	50506	MECH_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/11/2024 10:07	62607	ENGL_T1	1	1	0	0.4	0.4	0	-0.68	-0.66	0	0	0	0	0	0
9/11/2024 10:07	50502	MECH_T1	1	1	0	2.7	2.5	-0.2	-0.17	-0.23	2	2	0	2100	2100	0
9/11/2024 10:07	50501	MECH_T1	4	4	0	1.05	0.98	-0.07	0	0	0	0	0	0	0	0
9/11/2024 10:07	48301	ORWI_T1	2	2	0	4.6	4.45	-0.15	-0.3	-0.32	1	1	0	900	900	0
9/11/2024 10:08	62607	ENGL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/11/2024 10:08	42201	SHEN_T2	0	0	0	0	0	0	0.7	0.72	0	0	0	0	0	0
9/11/2024 10:08	44203	POIN_T2	0	0	0	0	0	0	0.26	0.19	2	2	0	2100	2100	0
9/11/2024 10:08	13701	SCHN_T2	3	3	0	0.17	0.33	0.16	0	0	0	0	0	0	0	0
9/11/2024 10:08	57403	SPAN_T1	17	21	4	0.24	0.24	0	0	0	0	0	0	0	0	0
9/11/2024 10:08	62605	ENGL_T1	1	1	0	0.5	0.1	-0.4	-0.59	-0.56	0	0	0	0	0	0
9/11/2024 10:08	13704	SCHN_T2	1	1	0	0.3	0.3	0	-0.24	-0.1	0	0	0	0	0	0
9/11/2024 10:08	10602	BLGL_T2	0	0	0	0	0	0	1.09	1.04	0	0	0	0	0	0
9/11/2024 10:08	57401	SPAN_T1	17	16	-1	0.51	0.65	0.14	-0.24	-0.17	0	0	0	0	0	0
9/11/2024 10:09	57401	SPAN_T1	17	16	-1	0.51	0.65	0.14	0	0	0	0	0	0	0	0
9/11/2024 10:09	12202	FOGE_T2	1	1	0	0.1	0	-0.1	0	0	1	1	0	600	600	0
9/11/2024 10:09	20401	ASHF_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
9/11/2024 10:09	57403	SPAN_T1	17	21	4	0.24	0.24	0	0.1	0.1	0	0	0	0	0	0
9/11/2024 10:09	20403	ASHF_T2	2	3	1	0.15	0.17	0.02	0.46	0.47	0	0	0	0	0	0
9/11/2024 10:09	55002	NEWP_T1	7	8	1	1.16	0.95	-0.21	0	0	0	0	0	0	0	0
9/11/2024 10:10	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/11/2024 10:10	57401	SPAN_T1	17	16	-1	0.51	0.65	0.14	-0.24	-0.17	0	0	0	0	0	0
9/11/2024 10:10	45902	AUBU_T1	1	1	0	1.2	1.4	0.2	-0.61	-0.57	1	1	0	600	600	0
9/11/2024 10:10	15203	SFAR_T2	0	0	0	0	0	0	-0.5	-0.47	0	0	0	0	0	0
9/11/2024 10:10	16101	BING_T2	0	1	1	0	0	0	0.43	0.42	0	0	0	0	0	0
9/11/2024 10:10	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 10:10	57403	SPAN_T1	17	21	4	0.24	0.24	0	0	0	0	0	0	0	0	0
9/11/2024 10:10	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/11/2024 10:11	12807	MICK_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/11/2024 10:11	59202	THOM_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/11/2024 10:11	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 10:11	57401	SPAN_T1	17	16	-1	0.51	0.65	0.14	-0.73	-0.52	0	0	0	0	0	0
9/11/2024 10:11	57403	SPAN_T1	17	21	4	0.24	0.24	0	0.1	0.1	0	0	0	0	0	0
9/11/2024 10:11	12801	MICK_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
9/11/2024 10:11	12803	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 10:12	20403	ASHF_T2	2	3	1	0.15	0.17	0.02	0.46	0.47	0	0	0	0	0	0
9/11/2024 10:12	59101	WALK_T2	1	1	0	2.9	3	0.1	2.29	2.24	0	0	0	0	0	0
9/11/2024 10:12	20401	ASHF_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
9/11/2024 10:12	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 10:12	10801	CHHI_T1	3	3	0	0.2	0.15	-0.05	-0.53	-0.6	1	1	0	900	900	0
9/11/2024 10:12	13905	SEID_T1	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
9/11/2024 10:12	47101	MARL_T1	0	1	1	0	0	0	-0.21	-0.23	0	0	0	0	0	0
9/11/2024 10:12	57403	SPAN_T1	17	21	4	0.24	0.24	0	0	0	0	0	0	0	0	0
9/11/2024 10:12	59102	WALK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/11/2024 10:12	57401	SPAN_T1	17	16	-1	0.51	0.65	0.14	-0.24	-0.17	0	0	0	0	0	0
9/11/2024 10:12	59202	THOM_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/11/2024 10:13	53601	DALM_T2	1	1	0	0.8	0.6	-0.2	-0.24	-0.03	0	0	0	0	0	0
9/11/2024 10:14	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/11/2024 10:14	46002	BERW_T2	0	0	0	0	0	0	-0.51	-0.66	1	1	0	900	900	0
9/11/2024 10:14	59101	WALK_T2	1	1	0	2.9	3	0.1	4.57	4.48	0	0	0	0	0	0
9/11/2024 10:14	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0.39	0.35	0	0	0	0	0	0
9/11/2024 10:14	53501	EVIL_T2	1	3	2	0.6	0.6	0	-0.01	-0.01	3	3	0	2100	2100	0
9/11/2024 10:14	59102	WALK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/11/2024 10:14	45501	DERR_T2	1	2	1	0.2	0.6	0.4	0.71	0.79	2	2	0	1800	1800	0
9/11/2024 10:14	21501	CEAV_T2	0	0	0	0	0	0	0.23	0.17	1	1	0	1200	1200	0
9/11/2024 10:15	50107	HARR_T3	1	1	0	6.9	6.5	-0.4	0	0	0	0	0	0	0	0
9/11/2024 10:15	50103	HARR_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:15	47402	PENS_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:15	22904	HARW_T1	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
9/11/2024 10:15	48302	ORWI_T2	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
9/11/2024 10:15	45501	DERR_T2	1	3	2	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/11/2024 10:15	45502	DERR_T2	0	0	0	0	0	0	0.16	0.17	1	1	0	300	300	0
9/11/2024 10:15	47401	PENS_T1	34	5	-29	0.32	0.76	0.44	-0.62	-0.62	0	0	0	0	0	0
9/11/2024 10:15	47403	PENS_T1	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
9/11/2024 10:15	50105	HARR_T3	6	6	0	6.57	6.37	-0.2	0	0	0	0	0	0	0	0
9/11/2024 10:15	47203	FAXO_T2	0	0	0	0	0	0	-1.51	-1.48	1	1	0	1200	1200	0
9/11/2024 10:15	22905	HARW_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/11/2024 10:15	40101	HUNT_T2	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
9/11/2024 10:16	53501	EVIL_T2	2	3	1	0.5	0.53	0.03	-0.01	-0.01	3	3	0	2100	2100	0
9/11/2024 10:16	60504	NMAN_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:16	57403	SPAN_T1	21	21	0	0.24	0.26	0.02	0	0	0	0	0	0	0	0
9/11/2024 10:16	55101	WERT_T1	0	0	0	0	0	0	-1.42	-1.35	3	3	0	2400	2400	0
9/11/2024 10:16	63501	HEID_TBK1-2	47	47	0	0.57	0.57	0	0.27	0.44	1	1	0	900	900	0
9/11/2024 10:16	60502	NMAN_T2	1	0	-1	6.1	0	-6.1	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 10:16	45802	HEGI_T2	1	7	6	0.6	0.5	-0.1	3.13	3.04	0	0	0	0	0	0
9/11/2024 10:16	53502	EVIL_T2	0	0	0	0	0	0	0.05	-0.02	2	2	0	1200	1200	0
9/11/2024 10:16	57401	SPAN_T1	15	15	0	0.64	0.68	0.04	-0.24	-0.17	0	0	0	0	0	0
9/11/2024 10:16	45501	DERR_T2	1	3	2	0.5	0.6	0.1	0.71	0.79	2	2	0	1800	1800	0
9/11/2024 10:17	63501	HEID_TBK1-2	47	47	0	0.57	0.57	0	0.27	0.44	1	1	0	900	900	0
9/11/2024 10:18	47402	PENS_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:18	53501	EVIL_T2	2	3	1	0.5	0.53	0.03	-0.01	-0.01	6	6	0	4200	4200	0
9/11/2024 10:18	47403	PENS_T1	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
9/11/2024 10:18	11507	FREE_T2	0	0	0	0	0	0	1.19	1.18	0	0	0	0	0	0
9/11/2024 10:18	52004	LING_T2	5	6	1	2.7	2.53	-0.17	0.8	0.86	0	0	0	0	0	0
9/11/2024 10:18	47401	PENS_T1	34	5	-29	0.32	0.76	0.44	-0.62	-0.62	0	0	0	0	0	0
9/11/2024 10:18	63501	HEID_TBK1-2	47	47	0	0.57	0.57	0	0.27	0.44	1	1	0	900	900	0
9/11/2024 10:19	25501	MADI_T1	3	1	-2	0.5	1.3	0.8	0	0	0	0	0	0	0	0
9/11/2024 10:19	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 10:19	63501	HEID_TBK1-2	47	47	0	0.57	0.57	0	0.27	0.44	1	1	0	900	900	0
9/11/2024 10:19	50103	HARR_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:19	25503	MADI_T1	146	136	-10	0.48	0.42	-0.06	-0.94	-0.95	0	0	0	0	0	0
9/11/2024 10:19	50105	HARR_T3	6	6	0	6.57	6.37	-0.2	0	0	0	0	0	0	0	0
9/11/2024 10:19	50107	HARR_T3	1	1	0	6.9	6.5	-0.4	0	0	0	0	0	0	0	0
9/11/2024 10:19	53501	EVIL_T2	2	3	1	0.5	0.53	0.03	-0.02	-0.02	9	9	0	6300	6300	0
9/11/2024 10:19	25502	MADI_T1	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
9/11/2024 10:20	47402	PENS_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:20	47401	PENS_T1	34	5	-29	0.32	0.76	0.44	-0.62	-0.62	0	0	0	0	0	0
9/11/2024 10:20	47403	PENS_T1	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
9/11/2024 10:21	53801	MBRG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 10:21	65503	MOJO_T2	0	2	2	0	0.1	0.1	-0.78	-0.65	1	1	0	900	900	0
9/11/2024 10:21	52004	LING_T2	5	6	1	2.7	2.53	-0.17	0.4	0.43	0	0	0	0	0	0
9/11/2024 10:21	53802	MBRG_T2	0	0	0	0	0	0	0.32	0.28	0	0	0	0	0	0
9/11/2024 10:21	41902	REED_T1	0	0	0	0	0	0	1.17	1.18	0	0	0	0	0	0
9/11/2024 10:22	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:22	56501	ROCK_T2	3	3	0	0.23	0.35	0.12	-0.05	-0.02	0	0	0	0	0	0
9/11/2024 10:22	65005	NEFF_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/11/2024 10:22	65001	NEFF_T2	0	0	0	0	0	0	-0.34	-0.4	1	1	0	1200	1200	0
9/11/2024 10:23	15704	TANN_T1	1	1	0	0.2	0.3	0.1	-0.25	-0.17	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/11/2024 10:23	49803	UNIV_T1	3	3	0	1.83	1.93	0.1	-2.18	-2.09	0	0	0	0	0	0
9/11/2024 10:23	24902	WHHA_T1	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
9/11/2024 10:23	56501	ROCK_T2	3	3	0	0.23	0.35	0.12	-0.05	-0.02	0	0	0	0	0	0
9/11/2024 10:23	49804	UNIV_T1	1	1	0	0.4	1	0.6	-0.03	0.09	0	0	0	0	0	0
9/11/2024 10:23	15701	TANN_T1	2	2	0	2.55	2.75	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:23	41902	REED_T1	0	0	0	0	0	0	2.34	2.36	0	0	0	0	0	0
9/11/2024 10:23	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:23	55002	NEWP_T1	8	10	2	0.94	0.75	-0.19	0	0	0	0	0	0	0	0
9/11/2024 10:24	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:24	56501	ROCK_T2	3	3	0	0.23	0.35	0.12	-0.05	-0.02	0	0	0	0	0	0
9/11/2024 10:24	57401	SPAN_T1	15	15	0	0.64	0.68	0.04	-0.17	-0.17	0	0	0	0	0	0
9/11/2024 10:24	57403	SPAN_T1	21	21	0	0.24	0.26	0.02	0	0	0	0	0	0	0	0
9/11/2024 10:25	15703	TANN_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:25	42201	SHEN_T2	0	0	0	0	0	0	0.72	0.13	0	1	1	0	600	600
9/11/2024 10:25	15702	TANN_T2	1	3	2	0.4	0.27	-0.13	-0.35	-0.35	0	0	0	0	0	0
9/11/2024 10:25	57401	SPAN_T1	15	15	0	0.64	0.68	0.04	-0.17	-0.17	0	0	0	0	0	0
9/11/2024 10:25	57403	SPAN_T1	21	21	0	0.24	0.26	0.02	0	0	0	0	0	0	0	0
9/11/2024 10:25	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 10:25	67605	WARW_T1	5	6	1	0.32	0.4	0.08	0	0	0	0	0	0	0	0
9/11/2024 10:26	15702	TANN_T2	1	3	2	0.4	0.27	-0.13	-0.7	-0.7	0	0	0	0	0	0
9/11/2024 10:26	24902	WHHA_T1	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
9/11/2024 10:26	66502	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/11/2024 10:26	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:26	66504	SMAN_T2	0	0	0	0	0	0	-0.35	-0.2	0	0	0	0	0	0
9/11/2024 10:26	15703	TANN_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:26	67502	WEWI_T2	25	12	-13	0.27	0.37	0.1	-0.11	0	0	0	0	0	0	0
9/11/2024 10:26	67503	WEWI_T2	1	1	0	8.9	8.7	-0.2	0	0	0	0	0	0	0	0
9/11/2024 10:27	49803	UNIV_T1	3	3	0	1.83	1.93	0.1	-4.36	-4.18	0	0	0	0	0	0
9/11/2024 10:27	57403	SPAN_T1	21	21	0	0.24	0.26	0.02	0	0	0	0	0	0	0	0
9/11/2024 10:27	67503	WEWI_T2	1	1	0	8.9	8.7	-0.2	-0.02	-0.01	0	0	0	0	0	0
9/11/2024 10:27	42601	TUSC_T1	3	2	-1	0.43	0.1	-0.33	0.93	1.09	6	6	0	4800	4800	0
9/11/2024 10:27	66504	SMAN_T2	0	0	0	0	0	0	-0.18	-0.1	0	0	0	0	0	0
9/11/2024 10:27	49804	UNIV_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
9/11/2024 10:27	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:27	67502	WEWI_T2	25	12	-13	0.27	0.37	0.1	-0.11	0	0	0	0	0	0	0
9/11/2024 10:27	57401	SPAN_T1	15	15	0	0.64	0.68	0.04	-0.17	-0.17	0	0	0	0	0	0
9/11/2024 10:27	66502	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/11/2024 10:27	46001	BERW_T1	0	1	1	0	0.1	0.1	0.88	0.88	0	0	0	0	0	0
9/11/2024 10:28	60803	BUCK_T1	7	2	-5	0.19	0.1	-0.09	0	0	0	0	0	0	0	0
9/11/2024 10:28	67502	WEWI_T2	25	12	-13	0.27	0.37	0.1	-0.11	0	0	0	0	0	0	0
9/11/2024 10:28	67503	WEWI_T2	1	1	0	8.9	8.7	-0.2	0	0	0	0	0	0	0	0
9/11/2024 10:28	61001	DONV_T1	2	2	0	0.65	0.65	0	-0.11	-0.06	0	0	0	0	0	0
9/11/2024 10:28	60801	BUCK_T1	1	0	-1	0.3	0	-0.3	0.14	0.17	0	0	0	0	0	0
9/11/2024 10:29	59101	WALK_T2	1	1	0	3	3.9	0.9	2.24	1.88	0	1	1	0	600	600
9/11/2024 10:29	59102	WALK_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/11/2024 10:29	67501	WEWI_T1	4	5	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/11/2024 10:29	65005	NEFF_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/11/2024 10:29	65001	NEFF_T2	0	0	0	0	0	0	-0.34	-0.4	1	1	0	1200	1200	0
9/11/2024 10:29	67505	WEWI_T1	2	2	0	0.4	0.25	-0.15	0	0.01	1	1	0	900	900	0
9/11/2024 10:29	40201	BEGA_T2	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/11/2024 10:30	22003	BOHE_T1	3	4	1	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
9/11/2024 10:30	67503	WEWI_T2	1	1	0	8.7	8.6	-0.1	-0.02	-0.01	0	0	0	0	0	0
9/11/2024 10:30	22002	BOHE_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
9/11/2024 10:30	43402	BENT_T1	2	2	0	0.4	0.6	0.2	-0.37	-0.47	1	1	0	600	600	0
9/11/2024 10:30	67502	WEWI_T2	12	5	-7	0.35	0.58	0.23	0	0	0	0	0	0	0	0
9/11/2024 10:31	45901	AUBU_T1	0	35	35	0	0.2	0.2	2.12	0.18	0	0	0	0	0	0
9/11/2024 10:31	45902	AUBU_T1	1	6	5	1	0.53	-0.47	0	0	0	0	0	0	0	0
9/11/2024 10:31	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 10:32	45901	AUBU_T1	0	35	35	0	0.2	0.2	2.12	0.18	0	0	0	0	0	0
9/11/2024 10:32	44502	HAMI_T2	1	1	0	1.4	1.4	0	-0.65	-0.64	0	0	0	0	0	0
9/11/2024 10:32	45902	AUBU_T1	1	6	5	1	0.53	-0.47	-0.57	-0.43	1	1	0	600	600	0
9/11/2024 10:33	45902	AUBU_T1	1	6	5	1	0.53	-0.47	-1.15	-0.87	2	2	0	1200	1200	0
9/11/2024 10:33	45901	AUBU_T1	0	35	35	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:34	45902	AUBU_T1	1	6	5	1	0.53	-0.47	-1.15	-0.87	2	2	0	1200	1200	0
9/11/2024 10:34	45901	AUBU_T1	0	35	35	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:34	63403	HONY_T2	0	0	0	0	0	0	0.2	0.15	1	1	0	600	600	0
9/11/2024 10:35	64501	LAVI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 10:35	64503	LAVI_T1	0	0	0	0	0	0	-1.6	-1.53	2	2	0	2100	2100	0
9/11/2024 10:35	45902	AUBU_T1	1	6	5	1	0.53	-0.47	0	0	0	0	0	0	0	0
9/11/2024 10:35	45901	AUBU_T1	0	35	35	0	0.2	0.2	2.12	0.18	0	0	0	0	0	0
9/11/2024 10:36	56501	ROCK_T2	3	3	0	0.7	0.35	-0.35	-0.05	-0.02	0	0	0	0	0	0
9/11/2024 10:36	56504	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/11/2024 10:37	61801	EELI_T2	0	0	0	0	0	0	-0.45	-0.4	1	1	0	600	600	0
9/11/2024 10:37	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 10:37	56504	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/11/2024 10:37	64802	MONE_T2	4	5	1	0.48	0.34	-0.14	0.36	0.37	0	0	0	0	0	0
9/11/2024 10:37	56501	ROCK_T2	3	3	0	0.7	0.35	-0.35	-0.02	-0.01	0	0	0	0	0	0
9/11/2024 10:37	64801	MONE_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/11/2024 10:39	43304	WATS_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
9/11/2024 10:39	43302	WATS_T2	4	4	0	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
9/11/2024 10:39	56504	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/11/2024 10:39	40201	BEGA_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/11/2024 10:39	43301	WATS_T2	1	4	3	0.4	0.3	-0.1	-1.22	-1.13	2	2	0	1800	1800	0
9/11/2024 10:39	56501	ROCK_T2	3	3	0	0.7	0.35	-0.35	-0.02	-0.01	0	0	0	0	0	0
9/11/2024 10:40	43302	WATS_T2	4	4	0	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
9/11/2024 10:40	43304	WATS_T2	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
9/11/2024 10:40	43301	WATS_T2	1	4	3	0.4	0.3	-0.1	-1.22	-1.13	2	2	0	1800	1800	0
9/11/2024 10:41	43302	WATS_T2	4	4	0	0.45	0.38	-0.07	-0.42	-0.22	3	3	0	2400	2400	0
9/11/2024 10:41	43301	WATS_T2	1	4	3	0.4	0.3	-0.1	-0.61	-0.57	1	1	0	900	900	0
9/11/2024 10:41	43304	WATS_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
9/11/2024 10:41	46001	BERW_T2	0	0	0	0	0	0	0.01	0.06	0	0	0	0	0	0
9/11/2024 10:42	43304	WATS_T2	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
9/11/2024 10:42	43301	WATS_T2	1	4	3	0.4	0.3	-0.1	-1.83	-1.7	3	3	0	2700	2700	0
9/11/2024 10:42	13704	SCHN_T2	1	1	0	0.3	0.3	0	-0.07	0.03	0	0	0	0	0	0
9/11/2024 10:42	43302	WATS_T2	4	4	0	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
9/11/2024 10:42	13701	SCHN_T2	3	3	0	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
9/11/2024 10:43	43402	BENT_T1	2	2	0	0.4	0.6	0.2	-0.47	-0.36	1	1	0	600	600	0
9/11/2024 10:43	43301	WATS_T2	1	4	3	0.4	0.3	-0.1	-1.22	-1.13	2	2	0	1800	1800	0
9/11/2024 10:43	43304	WATS_T2	0	0	0	0	0	0	-1.8	-1.8	0	0	0	0	0	0
9/11/2024 10:43	43302	WATS_T2	4	4	0	0.45	0.38	-0.07	-0.83	-0.45	6	6	0	4800	4800	0
9/11/2024 10:44	20401	ASHF_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:44	43302	WATS_T2	4	4	0	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
9/11/2024 10:44	16103	BING_T2	0	0	0	0	0	0	-0.78	-0.77	2	2	0	1500	1500	0
9/11/2024 10:44	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 10:44	43301	WATS_T2	1	4	3	0.4	0.3	-0.1	-0.61	-0.57	1	1	0	900	900	0
9/11/2024 10:44	20403	ASHF_T2	3	6	3	0.13	0.2	0.07	0.49	0.49	0	0	0	0	0	0
9/11/2024 10:45	44801	EDAN_T2	158	152	-6	0.61	0.6	-0.01	0	0	0	0	0	0	0	0
9/11/2024 10:45	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:45	43304	WATS_T2	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
9/11/2024 10:45	43302	WATS_T2	4	1	-3	0.38	0.1	-0.28	0	0	0	0	0	0	0	0
9/11/2024 10:45	16103	BING_T2	0	0	0	0	0	0	-0.78	-0.77	2	2	0	1500	1500	0
9/11/2024 10:45	43301	WATS_T2	3	4	1	0.23	0.23	0	0	0	0	0	0	0	0	0
9/11/2024 10:45	44802	EDAN_T2	0	0	0	0	0	0	-1.27	-1.17	0	0	0	0	0	0
9/11/2024 10:46	11104	EGYP_T1	0	0	0	0	0	0	1.32	1.36	0	0	0	0	0	0
9/11/2024 10:46	11102	EGYP_T1	0	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0
9/11/2024 10:46	11101	EGYP_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/11/2024 10:47	64203	KINZ_T1	0	0	0	0	0	0	0.17	0.13	3	3	0	2100	2100	0
9/11/2024 10:47	44801	EDAN_T2	158	152	-6	0.61	0.6	-0.01	-1.45	-1.49	0	0	0	0	0	0
9/11/2024 10:47	64204	KINZ_T1	29	3	-26	0.43	0.47	0.04	0	0	0	0	0	0	0	0
9/11/2024 10:47	44802	EDAN_T2	0	0	0	0	0	0	-0.64	-0.58	0	0	0	0	0	0
9/11/2024 10:48	40101	HUNT_T2	0	2	2	0	0.4	0.4	-0.21	-0.18	0	0	0	0	0	0
9/11/2024 10:48	44801	EDAN_T2	158	152	-6	0.61	0.6	-0.01	-1.45	-1.49	0	0	0	0	0	0
9/11/2024 10:48	47901	HRDG_T1	0	0	0	0	0	0	2.17	2.08	0	0	0	0	0	0
9/11/2024 10:48	52001	LING_T1	0	0	0	0	0	0	0.25	0.29	0	0	0	0	0	0
9/11/2024 10:48	44802	EDAN_T2	0	0	0	0	0	0	-0.64	-0.58	0	0	0	0	0	0
9/11/2024 10:49	44802	EDAN_T2	0	0	0	0	0	0	-0.64	-0.58	0	0	0	0	0	0
9/11/2024 10:49	63602	LETO_T1	1	2	1	0.7	0.8	0.1	-0.07	0.03	0	0	0	0	0	0
9/11/2024 10:49	63601	LETO_T1	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
9/11/2024 10:49	44801	EDAN_T2	158	152	-6	0.61	0.6	-0.01	0	0	0	0	0	0	0	0
9/11/2024 10:50	63601	LETO_T1	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
9/11/2024 10:50	16402	MOPO_T1	0	1	1	0	0	0	0.78	0.83	0	0	0	0	0	0
9/11/2024 10:50	63602	LETO_T1	1	2	1	0.7	0.8	0.1	-0.07	0.03	0	0	0	0	0	0
9/11/2024 10:51	47001	HUGH_T2	3	3	0	7.33	7.23	-0.1	-0.74	-0.64	0	0	0	0	0	0
9/11/2024 10:51	64902	MILL_T2	0	0	0	0	0	0	-0.42	-0.4	1	1	0	900	900	0
9/11/2024 10:51	16402	MOPO_T1	0	1	1	0	0	0	0.78	0.83	0	0	0	0	0	0
9/11/2024 10:52	26401	INOR_T1	0	2	2	0	0.1	0.1	-0.83	-0.87	1	1	0	600	600	0
9/11/2024 10:52	47001	HUGH_T2	3	3	0	7.33	7.23	-0.1	-0.74	-0.64	0	0	0	0	0	0
9/11/2024 10:52	26401	INOR_T1	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
9/11/2024 10:54	65604	QVIL_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
9/11/2024 10:54	64101	REFR_T1	2	2	0	0.6	0.65	0.05	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 10:56	67401	WAKE_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/11/2024 10:56	21204	ECAR_T2	1	5	4	0	0	0	-0.67	-0.63	0	0	0	0	0	0
9/11/2024 10:56	67402	WAKE_T2	0	0	0	0	0	0	0.53	0.52	1	1	0	600	600	0
9/11/2024 10:56	44301	BEAV_T2	1	2	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 10:56	44801	EDAN_T2	158	152	-6	0.61	0.6	-0.01	0	0	0	0	0	0	0	0
9/11/2024 10:56	21206	ECAR_T2	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
9/11/2024 10:56	44802	EDAN_T2	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
9/11/2024 10:58	67603	WARW_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
9/11/2024 10:58	20401	ASHF_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/11/2024 10:58	67605	WARW_T1	6	3	-3	0.38	0.37	-0.01	0	0	0	0	0	0	0	0
9/11/2024 10:58	20403	ASHF_T2	1	6	5	0.1	0.2	0.1	0.49	0.48	0	0	0	0	0	0
9/11/2024 10:59	67605	WARW_T1	6	3	-3	0.38	0.37	-0.01	-1.91	-1.93	0	0	0	0	0	0
9/11/2024 10:59	20403	ASHF_T2	1	6	5	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/11/2024 10:59	20401	ASHF_T2	1	2	1	0.1	0.2	0.1	-0.09	-0.07	0	0	0	0	0	0
9/11/2024 11:00	44502	HAMI_T2	1	1	0	1.3	2	0.7	0	0	0	0	0	0	0	0
9/11/2024 11:00	44505	HAMI_T2	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
9/11/2024 11:02	25402	LAHA_T2	2	2	0	0.25	0.3	0.05	-0.34	-0.29	0	0	0	0	0	0
9/11/2024 11:03	53902	HALI_T2	2	3	1	2.65	1.97	-0.68	0	0	0	0	0	0	0	0
9/11/2024 11:03	11101	EGYP_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/11/2024 11:03	11102	EGYP_T1	0	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0
9/11/2024 11:03	53903	HALI_T2	2	3	1	0.25	0.57	0.32	0	0	0	0	0	0	0	0
9/11/2024 11:03	11104	EGYP_T1	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
9/11/2024 11:03	53901	HALI_T2	1	2	1	0.8	0.55	-0.25	-1.19	-1.16	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/11/2024 11:04	53901	HALI_T2	1	2	1	0.8	0.55	-0.25	-3.56	-3.48	0	0	0	0	0	0
9/11/2024 11:04	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 11:04	53902	HALI_T2	2	3	1	2.65	1.97	-0.68	0	0	0	0	0	0	0	0
9/11/2024 11:04	12701	MACU_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
9/11/2024 11:04	58402	MORO_T1	0	0	0	0	0	0	0	0.03	2	2	0	1500	1500	0
9/11/2024 11:04	41902	REED_T1	0	1	1	0	0.2	0.2	1.22	1.14	0	0	0	0	0	0
9/11/2024 11:04	53903	HALI_T2	2	3	1	0.25	0.57	0.32	0	0	0	0	0	0	0	0
9/11/2024 11:05	53902	HALI_T2	2	3	1	2.65	1.97	-0.68	0	0	0	0	0	0	0	0
9/11/2024 11:05	53901	HALI_T2	1	2	1	0.8	0.55	-0.25	-3.56	-3.48	0	0	0	0	0	0
9/11/2024 11:05	53903	HALI_T2	2	3	1	0.25	0.57	0.32	0	0	0	0	0	0	0	0
9/11/2024 11:08	47403	PENS_T1	0	4	4	0	0.7	0.7	0	0	0	0	0	0	0	0
9/11/2024 11:08	47402	PENS_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
9/11/2024 11:08	47401	PENS_T1	1	4	3	0.5	1	0.5	0.7	0.76	0	0	0	0	0	0
9/11/2024 11:09	44505	HAMI_T2	0	0	0	0	0	0	0.65	0.67	0	0	0	0	0	0
9/11/2024 11:09	47403	PENS_T1	0	4	4	0	0.7	0.7	0	0	0	0	0	0	0	0
9/11/2024 11:09	47401	PENS_T1	1	4	3	0.5	1	0.5	0.7	0.76	0	0	0	0	0	0
9/11/2024 11:09	44502	HAMI_T2	1	1	0	1.3	2	0.7	0	0	0	0	0	0	0	0
9/11/2024 11:09	47402	PENS_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
9/11/2024 11:11	14403	SSLA_T1	1	1	0	0.1	0.1	0	0.87	0.85	0	0	0	0	0	0
9/11/2024 11:11	14401	SSLA_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 11:11	14404	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 11:12	60101	COCA_T1	0	1	1	0	0.2	0.2	0.45	0.46	0	0	0	0	0	0
9/11/2024 11:13	55105	WERT_T1	0	0	0	0	0	0	-0.3	-0.3	1	1	0	900	900	0
9/11/2024 11:13	63401	HONY_T1	0	0	0	0	0	0	0.37	0.42	1	1	0	600	600	0
9/11/2024 11:14	43301	WATS_T2	4	1	-3	0.2	0.2	0	0	0	0	0	0	0	0	0
9/11/2024 11:14	63302	GREE_T1	0	0	0	0	0	0	0.93	0.95	0	0	0	0	0	0
9/11/2024 11:14	14203	EALL_T1	3	1	-2	0.17	0.2	0.03	0	0	0	0	0	0	0	0
9/11/2024 11:14	43302	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/11/2024 11:14	43304	WATS_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
9/11/2024 11:14	14201	EALL_T1	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
9/11/2024 11:15	60101	COCA_T1	0	2	2	0	0.35	0.35	0.45	0.46	0	0	0	0	0	0
9/11/2024 11:16	60101	COCA_T1	0	2	2	0	0.35	0.35	0.45	0.46	0	0	0	0	0	0
9/11/2024 11:16	63501	HEID_TBK1-2	47	47	0	0.98	0.81	-0.17	0.5	0.42	1	1	0	900	900	0
9/11/2024 11:17	43304	WATS_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
9/11/2024 11:17	43301	WATS_T2	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
9/11/2024 11:18	14801	TREI_T2	1	2	1	0.7	0.55	-0.15	0.48	0.49	0	0	0	0	0	0
9/11/2024 11:18	14802	TREI_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/11/2024 11:18	25402	LAHA_T2	2	2	0	0.2	0.45	0.25	-0.29	-0.23	0	0	0	0	0	0
9/11/2024 11:19	53501	EVIL_T2	2	2	0	0.35	0.55	0.2	-0.01	-0.01	3	3	0	2100	2100	0
9/11/2024 11:20	53501	EVIL_T2	2	2	0	0.35	0.55	0.2	-0.01	-0.01	3	3	0	2100	2100	0
9/11/2024 11:21	65503	MOJO_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
9/11/2024 11:21	44502	HAMI_T2	1	1	0	1.7	2.1	0.4	-0.62	-0.63	0	0	0	0	0	0
9/11/2024 11:21	65502	MOJO_T2	0	0	0	0	0	0	-0.24	-0.3	1	1	0	900	900	0
9/11/2024 11:23	42802	SELI_T1	0	3	3	0	0.57	0.57	-1.88	-1.65	2	2	0	1800	1800	0
9/11/2024 11:24	42802	SELI_T1	0	3	3	0	0.57	0.57	-1.88	-1.65	2	2	0	1800	1800	0
9/11/2024 11:25	57403	SPAN_T1	7	12	5	0.36	0.33	-0.03	0.09	0.13	0	0	0	0	0	0
9/11/2024 11:25	42802	SELI_T1	0	3	3	0	0.57	0.57	-1.88	-1.65	2	2	0	1800	1800	0
9/11/2024 11:25	67605	WARW_T1	3	9	6	0.33	0.27	-0.06	-0.93	-0.9	0	0	0	0	0	0
9/11/2024 11:25	67603	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/11/2024 11:25	23202	HIRU_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
9/11/2024 11:25	57401	SPAN_T1	11	9	-2	0.66	0.78	0.12	0	0	0	0	0	0	0	0
9/11/2024 11:26	67603	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/11/2024 11:26	67605	WARW_T1	3	9	6	0.33	0.27	-0.06	-0.93	-0.9	0	0	0	0	0	0
9/11/2024 11:27	67703	WERN_T2	0	1	1	0	0.3	0.3	-0.01	-0.03	1	1	0	900	900	0
9/11/2024 11:27	59101	WALK_T2	2	2	0	0.9	1.1	0.2	1.59	1.81	1	1	0	600	600	0
9/11/2024 11:27	59102	WALK_T2	1	6	5	0.5	0.5	0	0	0	0	0	0	0	0	0
9/11/2024 11:27	42802	SELI_T1	0	3	3	0	0.57	0.57	-0.94	-0.82	1	1	0	900	900	0
9/11/2024 11:27	67702	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/11/2024 11:27	53601	DALM_T2	1	1	0	0.5	0.7	0.2	-0.01	0.02	0	0	0	0	0	0
9/11/2024 11:28	67603	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/11/2024 11:28	60101	COCA_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
9/11/2024 11:28	67605	WARW_T1	3	9	6	0.33	0.27	-0.06	-1.86	-1.8	0	0	0	0	0	0
9/11/2024 11:28	67503	WEWI_T2	1	1	0	8.3	8.3	0	0.07	0.09	0	0	0	0	0	0
9/11/2024 11:28	67502	WEWI_T2	3	3	0	0.8	0.77	-0.03	0	0	0	0	0	0	0	0
9/11/2024 11:29	60101	COCA_T1	0	2	2	0	0.35	0.35	0.46	0.56	0	0	0	0	0	0
9/11/2024 11:30	11303	EMMA_T1	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
9/11/2024 11:30	11301	EMMA_T1	0	0	0	0	0	0	-0.59	-0.55	0	0	0	0	0	0
9/11/2024 11:30	11302	EMMA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/11/2024 11:30	11901	ETEX_T2	0	0	0	0	0	0	0.43	0.48	0	0	0	0	0	0
9/11/2024 11:30	11904	ETEX_T2	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
9/11/2024 11:31	60101	COCA_T1	1	2	1	0.2	0.35	0.15	0.46	0.56	0	0	0	0	0	0
9/11/2024 11:31	44801	EDAN_T2	138	125	-13	0.54	0.51	-0.03	-1.54	-1.52	0	0	0	0	0	0
9/11/2024 11:32	42903	MIDD_T2	0	0	0	0	0	0	0.75	0.93	1	1	0	1200	1200	0
9/11/2024 11:32	11202	ELHE_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
9/11/2024 11:35	44801	EDAN_T2	138	125	-13	0.54	0.51	-0.03	-3.08	-3.05	0	0	0	0	0	0
9/11/2024 11:36	53903	HALI_T2	3	4	1	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
9/11/2024 11:36	41902	REED_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/11/2024 11:36	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 11:36	53901	HALI_T2	2	2	0	0.55	0.75	0.2	-1.16	-1.13	0	0	0	0	0	0
9/11/2024 11:36	53902	HALI_T2	3	3	0	1.87	2	0.13	0	0	0	0	0	0	0	0
9/11/2024 11:44	61803	EELI_T2	0	0	0	0	0	0	0.54	0.56	1	1	0	600	600	0
9/11/2024 11:44	47401	PENS_T1	3	2	-1	1	0.8	-0.2	0.77	0.85	0	0	0	0	0	0
9/11/2024 11:44	47403	PENS_T1	4	3	-1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
9/11/2024 11:44	47402	PENS_T1	2	2	0	0.55	0.35	-0.2	0	0	0	0	0	0	0	0
9/11/2024 11:45	47402	PENS_T1	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
9/11/2024 11:45	47401	PENS_T1	2	1	-1	0.8	0.5	-0.3	1.54	1.7	0	0	0	0	0	0
9/11/2024 11:45	47403	PENS_T1	3	1	-2	0.47	1.1	0.63	0	0	0	0	0	0	0	0
9/11/2024 11:46	53901	HALI_T2	1	2	1	1	0.6	-0.4	-1.13	-1.13	0	0	0	0	0	0
9/11/2024 11:46	53902	HALI_T2	3	3	0	1.9	1.97	0.07	0	0	0	0	0	0	0	0
9/11/2024 11:46	53903	HALI_T2	4	4	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
9/11/2024 11:46	41602	CLEV_T1	2	2	0	0.4	0.55	0.15	0	0	1	1	0	600	600	0
9/11/2024 11:46	47402	PENS_T1	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
9/11/2024 11:46	47403	PENS_T1	3	1	-2	0.47	1.1	0.63	0	0	0	0	0	0	0	0
9/11/2024 11:46	50105	HARR_T3	6	6	0	6.1	6.32	0.22	0	0	0	0	0	0	0	0
9/11/2024 11:46	50103	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/11/2024 11:46	50201	HARR_T3	2	0	-2	0.2	0	-0.2	0	0	1	1	0	1200	1200	0
9/11/2024 11:46	47401	PENS_T1	2	1	-1	0.8	0.5	-0.3	0.77	0.85	0	0	0	0	0	0
9/11/2024 11:46	50107	HARR_T3	1	1	0	7.1	6.7	-0.4	0	0	0	0	0	0	0	0
9/11/2024 11:47	53903	HALI_T2	4	4	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
9/11/2024 11:47	53901	HALI_T2	1	2	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
9/11/2024 11:47	53902	HALI_T2	3	3	0	1.9	1.97	0.07	-0.15	-0.15	0	0	0	0	0	0
9/11/2024 11:48	50107	HARR_T3	1	1	0	7.1	6.7	-0.4	0	0	0	0	0	0	0	0
9/11/2024 11:48	50105	HARR_T3	6	6	0	6.1	6.32	0.22	0	0	0	0	0	0	0	0
9/11/2024 11:48	50201	HARR_T3	2	0	-2	0.2	0	-0.2	0	0	1	1	0	1200	1200	0
9/11/2024 11:48	50103	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/11/2024 11:49	50107	HARR_T3	1	1	0	7.1	6.7	-0.4	0	0	0	0	0	0	0	0
9/11/2024 11:49	50103	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/11/2024 11:49	50105	HARR_T3	6	6	0	6.1	6.32	0.22	0	0	0	0	0	0	0	0
9/11/2024 11:49	50201	HARR_T3	2	0	-2	0.2	0	-0.2	0	0	1	1	0	1200	1200	0
9/11/2024 11:50	44801	EDAN_T2	124	92	-32	0.5	0.57	0.07	-1.52	-1.49	0	0	0	0	0	0
9/11/2024 11:51	42902	MIDD_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 11:51	44801	EDAN_T2	124	92	-32	0.5	0.57	0.07	-1.49	-1.41	0	0	0	0	0	0
9/11/2024 11:51	42903	MIDD_T2	0	2	2	0	0.15	0.15	0.89	0.08	1	1	0	1200	1200	0
9/11/2024 11:53	57403	SPAN_T1	11	6	-5	0.35	0.43	0.08	0	0	0	0	0	0	0	0
9/11/2024 11:53	57401	SPAN_T1	9	10	1	0.72	0.61	-0.11	-0.06	-0.04	0	0	0	0	0	0
9/11/2024 11:55	67604	WARW_T1	0	0	0	0	0	0	0.25	0.29	0	0	0	0	0	0
9/11/2024 11:55	12601	MACA_T1	2	2	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
9/11/2024 11:55	67603	WARW_T1	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/11/2024 11:55	12604	MACA_T1	2	1	-1	0.4	0.7	0.3	0.42	0.45	0	0	0	0	0	0
9/11/2024 11:55	67605	WARW_T1	9	15	6	0.27	0.47	0.2	0	0	0	0	0	0	0	0
9/11/2024 11:56	15001	BLMO_T1	5	5	0	0.24	0.3	0.06	0	0	0	0	0	0	0	0
9/11/2024 11:56	42701	AUGU_T1	1	1	0	2.3	1.1	-1.2	0	0	1	1	0	600	600	0
9/11/2024 11:57	66501	SMAN_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/11/2024 11:57	42701	AUGU_T1	1	1	0	2.3	1.1	-1.2	0	0	1	1	0	600	600	0
9/11/2024 11:57	15201	SFAR_T1	0	0	0	0	0	0	0.14	0.16	2	2	0	1800	1800	0
9/11/2024 11:57	66502	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/11/2024 11:57	66504	SMAN_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
9/11/2024 11:57	66505	SMAN_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/11/2024 11:58	14403	SSLA_T1	3	2	-1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/11/2024 11:58	14404	SSLA_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/11/2024 11:58	14401	SSLA_T1	1	3	2	1	0.43	-0.57	-0.35	-0.31	0	0	0	0	0	0
9/11/2024 11:58	14402	SSLA_T1	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
9/11/2024 11:59	66501	SMAN_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/11/2024 11:59	66502	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/11/2024 11:59	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 11:59	66505	SMAN_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/11/2024 12:00	67603	WARW_T1	1	2	1	0.5	0.9	0.4	0	0	0	0	0	0	0	0
9/11/2024 12:00	67605	WARW_T1	15	13	-2	0.45	0.45	0	0	0	0	0	0	0	0	0
9/11/2024 12:00	67604	WARW_T1	0	0	0	0	0	0	0.25	0.29	0	0	0	0	0	0
9/11/2024 12:02	44505	HAMI_T2	0	3	3	0	0.57	0.57	0.68	0.7	0	0	0	0	0	0
9/11/2024 12:02	22901	HARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 12:02	22903	HARW_T1	0	1	1	0	0	0	0.4	0.31	0	0	0	0	0	0
9/11/2024 12:02	44502	HAMI_T2	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 12:02	22905	HARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 12:03	46503	LOHA_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/11/2024 12:03	46501	LOHA_T1	0	0	0	0	0	0	0.06	0.07	1	1	0	1200	1200	0
9/11/2024 12:03	46504	LOHA_T1	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
9/11/2024 12:03	46506	LOHA_T1	3	3	0	5.07	5.17	0.1	0	0	0	0	0	0	0	0
9/11/2024 12:04	12401	MILF_T1	2	2	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
9/11/2024 12:04	12402	MILF_T1	1	3	2	1	0.9	-0.1	1.19	1.16	0	0	0	0	0	0
9/11/2024 12:04	12403	MILF_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/11/2024 12:05	46501	LOHA_T1	0	0	0	0	0	0	0.06	0.07	1	1	0	1200	1200	0
9/11/2024 12:05	46503	LOHA_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/11/2024 12:05	46506	LOHA_T1	3	3	0	5.07	5.17	0.1	0	0.02	0	0	0	0	0	0
9/11/2024 12:05	46504	LOHA_T1	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
9/11/2024 12:06	46501	LOHA_T1	0	0	0	0	0	0	0.07	0.09	1	1	0	1200	1200	0
9/11/2024 12:06	46506	LOHA_T1	3	3	0	5.07	5.17	0.1	0	0	0	0	0	0	0	0
9/11/2024 12:06	58402	MORO_T1	0	0	0	0	0	0	-0.03	-0.01	2	2	0	1500	1500	0
9/11/2024 12:06	44505	HAMI_T2	0	3	3	0	0.57	0.57	0.7	0.7	0	0	0	0	0	0
9/11/2024 12:06	46503	LOHA_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/11/2024 12:06	46504	LOHA_T1	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
9/11/2024 12:06	44502	HAMI_T2	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 12:07	15204	SFAR_T2	3	1	-2	0.33	0.7	0.37	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/11/2024 12:07	44801	EDAN_T2	91	93	2	0.57	0.61	0.04	-1.41	-1.46	0	0	0	0	0	0
9/11/2024 12:07	15203	SFAR_T2	0	1	1	0	0.1	0.1	-0.34	-0.31	0	0	0	0	0	0
9/11/2024 12:11	57401	SPAN_T1	7	13	6	0.57	0.82	0.25	-0.04	-0.69	0	1	1	0	600	600
9/11/2024 12:11	57403	SPAN_T1	6	7	1	0.42	0.5	0.08	0	0	0	0	0	0	0	0
9/11/2024 12:14	57403	SPAN_T1	6	7	1	0.42	0.5	0.08	0	0	0	0	0	0	0	0
9/11/2024 12:14	53601	DALM_T2	1	1	0	0.5	1	0.5	-0.09	0.01	0	0	0	0	0	0
9/11/2024 12:14	57401	SPAN_T1	7	13	6	0.57	0.82	0.25	-0.04	-0.69	0	1	1	0	600	600
9/11/2024 12:14	45501	DERR_T2	6	5	-1	0.52	0.86	0.34	2.17	2.06	6	6	0	5400	5400	0
9/11/2024 12:18	28805	LAKE_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
9/11/2024 12:19	63501	HEID_TBK1-2	47	47	0	1.15	1.07	-0.08	0.46	0.42	1	1	0	900	900	0
9/11/2024 12:25	42503	ALTA_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
9/11/2024 12:29	53601	DALM_T2	1	1	0	1	0.8	-0.2	0.01	0	0	0	0	0	0	0
9/11/2024 12:32	44801	EDAN_T2	91	72	-19	0.62	0.62	0	-2.91	-2.93	0	0	0	0	0	0
9/11/2024 12:36	53902	HALI_T2	3	3	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
9/11/2024 12:36	53903	HALI_T2	5	7	2	0.44	0.54	0.1	0	0	0	0	0	0	0	0
9/11/2024 12:36	53901	HALI_T2	3	5	2	0.43	0.56	0.13	-1.09	-1.09	0	0	0	0	0	0
9/11/2024 12:38	41902	REED_T1	1	1	0	0.4	0.6	0.2	1.16	1.18	0	0	0	0	0	0
9/11/2024 12:38	57403	SPAN_T1	7	7	0	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
9/11/2024 12:38	52501	PROG_T1	0	0	0	0	0	0	0.31	0.38	1	1	0	300	300	0
9/11/2024 12:38	57401	SPAN_T1	13	15	2	0.82	0.64	-0.18	-0.68	-0.67	1	1	0	600	600	0
9/11/2024 12:39	41902	REED_T1	1	1	0	0.4	0.6	0.2	1.16	1.18	0	0	0	0	0	0
9/11/2024 12:39	51204	MTON_T2	0	0	0	0	0	0	-1.18	-1.18	2	2	0	1500	1500	0
9/11/2024 12:39	56504	ROCK_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
9/11/2024 12:39	56503	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/11/2024 12:39	51202	MTON_T2	1	2	1	0.1	0.7	0.6	0	0	0	0	0	0	0	0
9/11/2024 12:39	56501	ROCK_T2	2	5	3	0.3	0.32	0.02	0.29	0.31	0	0	0	0	0	0
9/11/2024 12:40	24902	WHHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/11/2024 12:40	65901	SAKR_T2	1	0	0	7.4	6.7	-0.7	0	0	0	0	0	0	0	0
9/11/2024 12:40	24901	WHHA_T1	1	1	0	0.5	0.4	-0.1	0.6	0.99	0	0	0	0	0	0
9/11/2024 12:40	65904	SAKR_T2	3	1	-2	0.13	0.2	0.07	-1.85	-1.84	3	3	0	1500	1500	0
9/11/2024 12:40	42701	AUGU_T1	0	5	5	0	0.4	0.4	0	0	2	2	0	1800	1800	0
9/11/2024 12:41	42701	AUGU_T1	0	5	5	0	0.4	0.4	0	0	2	2	0	1800	1800	0
9/11/2024 12:41	24902	WHHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/11/2024 12:41	56504	ROCK_T2	1	2	1	0.6	0.45	-0.15	0.03	0.07	0	0	0	0	0	0
9/11/2024 12:41	24901	WHHA_T1	1	1	0	0.5	0.4	-0.1	0.6	0.99	0	0	0	0	0	0
9/11/2024 12:41	56501	ROCK_T2	2	5	3	0.3	0.32	0.02	0	0	0	0	0	0	0	0
9/11/2024 12:41	56503	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/11/2024 12:42	42701	AUGU_T1	0	5	5	0	0.4	0.4	0	0	2	2	0	1800	1800	0
9/11/2024 12:43	21705	SUBU_T1	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
9/11/2024 12:43	21704	SUBU_T1	0	0	0	0	0	0	-1.96	-2.1	2	2	0	2400	2400	0
9/11/2024 12:43	42701	AUGU_T1	0	5	5	0	0.4	0.4	0	0	4	4	0	3600	3600	0
9/11/2024 12:43	21701	SUBU_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
9/11/2024 12:45	59301	MCAL_T1	3	3	0	0.37	0.23	-0.14	-1.48	-1.27	1	1	0	600	600	0
9/11/2024 12:46	54504	ENOL_T2	1	1	0	0.8	0.7	-0.1	-1.49	-1.48	1	1	0	600	600	0
9/11/2024 12:46	24102	EHAZ_T1	0	1	1	0	0.2	0.2	0.29	0.68	0	0	0	0	0	0
9/11/2024 12:46	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/11/2024 12:46	24105	EHAZ_T1	4	4	0	6.75	6.75	0	0	0	0	0	0	0	0	0
9/11/2024 12:46	24101	EHAZ_T1	1	8	7	0.4	0.4	0	0	0	0	0	0	0	0	0
9/11/2024 12:50	54501	ENOL_T2	0	0	0	0	0	0	-0.34	-0.32	1	1	0	600	600	0
9/11/2024 12:50	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/11/2024 12:50	54504	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
9/11/2024 12:51	58401	MORO_T1	2	1	-1	0.25	0.2	-0.05	-0.9	-0.88	1	1	0	900	900	0
9/11/2024 12:51	64704	LITI_T1	0	0	0	0	0	0	0.35	0.28	1	1	0	600	600	0
9/11/2024 12:51	58202	NEWV_T1	0	0	0	0	0	0	0.41	0.5	0	0	0	0	0	0
9/11/2024 12:52	58401	MORO_T1	2	1	-1	0.25	0.2	-0.05	-1.75	-1.69	2	2	0	1800	1800	0
9/11/2024 12:53	58401	MORO_T1	2	1	-1	0.25	0.2	-0.05	-0.88	-0.84	1	1	0	900	900	0
9/11/2024 12:54	67002	STHI_T2	0	2	2	0	0.35	0.35	0.92	0.89	0	0	0	0	0	0
9/11/2024 12:54	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 12:55	67002	STHI_T2	0	2	2	0	0.35	0.35	0.92	0.89	0	0	0	0	0	0
9/11/2024 12:55	56503	ROCK_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/11/2024 12:55	56501	ROCK_T2	5	2	-3	0.32	0.5	0.18	0.16	0.18	0	0	0	0	0	0
9/11/2024 12:55	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 12:55	56504	ROCK_T2	2	1	-1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
9/11/2024 12:56	24901	WHHA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/11/2024 12:56	24902	WHHA_T1	1	1	0	0.3	0.4	0.1	0.76	0.74	0	0	0	0	0	0
9/11/2024 12:58	10805	CHHI_T2	1	1	0	8.1	8	-0.1	-1.17	-1.1	2	2	0	1800	1800	0
9/11/2024 12:59	10805	CHHI_T2	1	1	0	8.1	8	-0.1	-1.17	-1.1	2	2	0	1800	1800	0
9/11/2024 12:59	47402	PENS_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/11/2024 12:59	47403	PENS_T1	1	6	5	1	0.55	-0.45	0	0	0	0	0	0	0	0
9/11/2024 12:59	47401	PENS_T1	3	3	0	1.33	0.93	-0.4	-0.3	-0.24	0	0	0	0	0	0
9/11/2024 13:00	47401	PENS_T1	3	3	0	0.87	2.97	2.1	-0.3	-0.24	0	0	0	0	0	0
9/11/2024 13:00	47403	PENS_T1	6	4	-2	0.52	0.65	0.13	0	0	0	0	0	0	0	0
9/11/2024 13:00	44203	POIN_T2	0	0	0	0	0	0	0.34	0.3	2	2	0	2100	2100	0
9/11/2024 13:00	20403	ASHF_T2	15	18	3	0.67	0.75	0.08	0.36	0.48	0	0	0	0	0	0
9/11/2024 13:00	10805	CHHI_T2	1	2	1	8	3.9	-4.1	-1.17	-1.1	2	2	0	1800	1800	0
9/11/2024 13:00	20401	ASHF_T2	5	11	6	0.48	0.35	-0.13	0	0	0	0	0	0	0	0
9/11/2024 13:00	20402	ASHF_T2	5	10	5	0.24	0.48	0.24	0	0	0	0	0	0	0	0
9/11/2024 13:01	44203	POIN_T2	0	0	0	0	0	0	0.34	0.3	2	2	0	2100	2100	0
9/11/2024 13:02	13704	SCHN_T2	1	0	-1	0.2	0	-0.2	0.14	0.21	0	0	0	0	0	0
9/11/2024 13:02	13701	SCHN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/11/2024 13:04	13002	NBET_T2	1	1	0	0.1	0.1	0	-1.27	-1.32	2	2	0	2400	2400	0
9/11/2024 13:05	64902	MILL_T2	0	0	0	0	0	0	-0.27	-0.3	1	1	0	900	900	0
9/11/2024 13:09	14801	TREI_T2	1	6	5	1	0.57	-0.43	0	0	0	0	0	0	0	0
9/11/2024 13:09	14802	TREI_T2	4	4	0	0.25	0.48	0.23	0.73	0.74	0	0	0	0	0	0
9/11/2024 13:09	55105	WERT_T1	0	0	0	0	0	0	-0.13	-0.07	1	1	0	900	900	0
9/11/2024 13:10	23201	HIRU_T2	2	5	3	0.25	0.38	0.13	0	0	0	0	0	0	0	0
9/11/2024 13:10	23203	HIRU_T2	0	1	1	0	0.3	0.3	0.15	0.14	0	0	0	0	0	0
9/11/2024 13:10	23202	HIRU_T2	4	5	1	0.2	0.38	0.18	0	0	0	0	0	0	0	0
9/11/2024 13:10	14801	TREI_T2	1	6	5	1	0.57	-0.43	0	0	0	0	0	0	0	0
9/11/2024 13:10	16302	ALPA_T2	0	3	3	0	0.2	0.2	-0.29	-0.22	0	0	0	0	0	0
9/11/2024 13:10	14802	TREI_T2	4	4	0	0.25	0.48	0.23	0.73	0.74	0	0	0	0	0	0
9/11/2024 13:11	15702	TANN_T2	2	2	0	0.6	0.55	-0.05	-0.17	-0.23	0	0	0	0	0	0
9/11/2024 13:11	15703	TANN_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
9/11/2024 13:12	14801	TREI_T2	1	6	5	1	0.57	-0.43	0	0	0	0	0	0	0	0
9/11/2024 13:12	14802	TREI_T2	4	4	0	0.25	0.48	0.23	0.73	0.74	0	0	0	0	0	0
9/11/2024 13:13	23203	HIRU_T2	0	1	1	0	0.3	0.3	0.15	0.14	0	0	0	0	0	0
9/11/2024 13:13	23201	HIRU_T2	2	5	3	0.25	0.38	0.13	0	0	0	0	0	0	0	0
9/11/2024 13:13	23202	HIRU_T2	4	5	1	0.2	0.38	0.18	0	0	0	0	0	0	0	0
9/11/2024 13:13	16302	ALPA_T2	0	3	3	0	0.2	0.2	-0.29	-0.22	0	0	0	0	0	0
9/11/2024 13:14	16302	ALPA_T2	0	3	3	0	0.2	0.2	-0.29	-0.22	0	0	0	0	0	0
9/11/2024 13:15	10705	CATA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
9/11/2024 13:15	16302	ALPA_T2	1	3	2	0.1	0.2	0.1	-0.29	-0.22	0	0	0	0	0	0
9/11/2024 13:15	10701	CATA_T2	0	0	0	0	0	0	-0.23	-0.26	1	1	0	1200	1200	0
9/11/2024 13:17	40101	HUNT_T2	0	1	1	0	0.5	0.5	-0.33	-0.33	0	0	0	0	0	0
9/11/2024 13:17	13701	SCHN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/11/2024 13:17	13704	SCHN_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
9/11/2024 13:18	11601	CEAL_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	1200	1200	0
9/11/2024 13:19	63403	HONY_T2	0	0	0	0	0	0	0.28	-0.25	1	1	0	600	600	0
9/11/2024 13:20	16203	POFA_T2	1	4	3	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/11/2024 13:20	64101	REFR_T1	1	1	0	0.6	0.8	0.2	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 13:20	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 13:21	64101	REFR_T1	1	1	0	0.6	0.8	0.2	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 13:21	15601	NSTR_T2	3	3	0	0.77	0.43	-0.34	0	0	0	0	0	0	0	0
9/11/2024 13:21	40101	HUNT_T2	0	1	1	0	0.5	0.5	-0.65	-0.7	0	0	0	0	0	0
9/11/2024 13:21	15603	NSTR_T2	2	2	0	0.3	0.25	-0.05	-0.28	-0.26	0	0	0	0	0	0
9/11/2024 13:22	14502	SCHO_T1	1	2	1	0.3	0.4	0.1	0.62	0.64	0	0	0	0	0	0
9/11/2024 13:22	64101	REFR_T1	1	1	0	0.6	0.8	0.2	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 13:23	64101	REFR_T1	1	1	0	0.6	0.8	0.2	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 13:24	64101	REFR_T1	1	1	0	0.6	0.8	0.2	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 13:24	46302	ROHR_T1	5	5	0	0.88	0.94	0.06	0	0	0	0	0	0	0	0
9/11/2024 13:24	57205	ROSS_T1	2	2	0	0.3	0.3	0	-0.47	-0.46	1	1	0	900	900	0
9/11/2024 13:24	46301	ROHR_T1	2	1	-1	2.5	5	2.5	0.22	0.23	0	0	0	0	0	0
9/11/2024 13:24	67702	WERN_T2	2	2	0	0.65	0.75	0.1	1.41	1.45	0	0	0	0	0	0
9/11/2024 13:24	15402	WALL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 13:24	67703	WERN_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
9/11/2024 13:24	15401	WALL_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
9/11/2024 13:26	57403	SPAN_T1	4	4	0	0.5	0.38	-0.12	0	0	0	0	0	0	0	0
9/11/2024 13:26	16302	ALPA_T2	1	3	2	0.1	0.2	0.1	-0.22	-0.18	0	0	0	0	0	0
9/11/2024 13:26	57401	SPAN_T1	6	5	-1	0.88	0.62	-0.26	-0.34	-0.44	1	1	0	600	600	0
9/11/2024 13:27	13704	SCHN_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
9/11/2024 13:27	13701	SCHN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/11/2024 13:28	40201	BEGA_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
9/11/2024 13:29	66501	SMAN_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/11/2024 13:29	66504	SMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
9/11/2024 13:29	40201	BEGA_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
9/11/2024 13:30	57403	SPAN_T1	4	2	-2	0.35	0.45	0.1	0	0	0	0	0	0	0	0
9/11/2024 13:30	57401	SPAN_T1	5	4	-1	0.62	0.48	-0.14	-0.34	-0.44	1	1	0	600	600	0
9/11/2024 13:31	40101	HUNT_T2	1	1	0	1.7	0	-1.7	-0.33	-0.35	0	0	0	0	0	0
9/11/2024 13:31	10805	CHHI_T2	2	1	-1	3.9	7.6	3.7	-1.41	-1.48	2	2	0	1800	1800	0
9/11/2024 13:32	53501	EVIL_T2	2	2	0	0.45	0.45	0	-0.01	-0.01	3	3	0	2100	2100	0
9/11/2024 13:32	41002	LAUR_T2	1	1	0	1.4	1.5	0.1	0.12	0.21	0	0	0	0	0	0
9/11/2024 13:32	41001	LAUR_T2	2	2	0	1.15	1.15	0	0	0	0	0	0	0	0	0
9/11/2024 13:34	53501	EVIL_T2	2	2	0	0.45	0.45	0	-0.01	-0.01	3	3	0	2100	2100	0
9/11/2024 13:35	48301	ORWI_T1	2	2	0	3.7	3.9	0.2	-0.23	-0.21	1	1	0	900	900	0
9/11/2024 13:35	64101	REFR_T1	1	1	0	0.4	0.8	0.4	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 13:36	41001	LAUR_T2	2	2	0	1.15	1.15	0	0	0	0	0	0	0	0	0
9/11/2024 13:36	41002	LAUR_T2	1	1	0	1.4	1.5	0.1	0.21	0.17	0	0	0	0	0	0
9/11/2024 13:37	40101	HUNT_T2	1	1	0	1.7	0	-1.7	-0.35	-0.3	0	0	0	0	0	0
9/11/2024 13:38	13502	MCMI_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
9/11/2024 13:39	67401	WAKE_T2	0	0	0	0	0	0	-0.81	-0.78	0	0	0	0	0	0
9/11/2024 13:40	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 13:40	66504	SMAN_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/11/2024 13:40	66501	SMAN_T2	2	2	0	0.2	0.75	0.55	0	0	0	0	0	0	0	0
9/11/2024 13:42	47001	HUGH_T2	4	4	0	5.43	5.68	0.25	-0.35	-0.36	0	0	0	0	0	0
9/11/2024 13:45	66501	SMAN_T2	2	2	0	0.4	0.75	0.35	0	0	0	0	0	0	0	0
9/11/2024 13:45	66504	SMAN_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/11/2024 13:45	16002	DORN_T2	0	0	0	0	0	0	-0.48	-0.46	1	1	0	1200	1200	0
9/11/2024 13:45	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 13:45	54203	PENN_T1	9	7	-2	0.46	0.44	-0.02	0	0	0	0	0	0	0	0
9/11/2024 13:45	54201	PENN_T1	7	7	0	0.79	0.66	-0.13	-0.64	-0.59	0	0	0	0	0	0
9/11/2024 13:46	26704	HEMI_T2	0	0	0	0	0	0	-0.4	-0.44	1	1	0	1200	1200	0
9/11/2024 13:46	16004	DORN_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/11/2024 13:46	16005	DORN_T1	1	2	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/11/2024 13:47	43304	WATS_T2	2	0	-2	0.3	0	-0.3	-1.23	-1.01	0	0	0	0	0	0
9/11/2024 13:47	14203	EALL_T1	2	2	0	0.4	0.45	0.05	0.36	0.19	1	1	0	1200	1200	0
9/11/2024 13:47	14201	EALL_T1	1	0	-1	7.2	0	-7.2	0	0	0	0	0	0	0	0
9/11/2024 13:47	43301	WATS_T2	4	1	-3	0.33	0.4	0.07	0	0	0	0	0	0	0	0
9/11/2024 13:49	43304	WATS_T2	2	0	-2	0.3	0	-0.3	-0.61	-0.5	0	0	0	0	0	0
9/11/2024 13:49	43301	WATS_T2	4	1	-3	0.33	0.4	0.07	0	0	0	0	0	0	0	0
9/11/2024 13:50	13303	ORVI_T1	0	6	6	0	0.43	0.43	0.19	0.21	0	0	0	0	0	0
9/11/2024 13:53	40101	HUNT_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/11/2024 13:53	13503	MCMI_T2	3	6	3	0.53	0.48	-0.05	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 13:54	47002	HUGH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 13:54	47001	HUGH_T2	4	4	0	5.68	5.3	-0.38	-0.36	-0.37	0	0	0	0	0	0
9/11/2024 13:57	15405	WALL_T1	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
9/11/2024 13:57	15401	WALL_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/11/2024 13:57	15402	WALL_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 13:58	44301	BEAV_T2	2	8	6	1.2	0.36	-0.84	0.86	0.71	2	2	0	1500	1500	0
9/11/2024 13:58	57401	SPAN_T1	2	4	2	0.4	0.58	0.18	-0.38	-0.23	1	1	0	600	600	0
9/11/2024 13:58	57403	SPAN_T1	2	1	-1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
9/11/2024 13:59	10805	CHHI_T2	1	1	0	7.6	7.9	0.3	-1.26	-1.16	2	2	0	1800	1800	0
9/11/2024 13:59	61502	EPET_T1	0	0	0	0	0	0	-2.16	-2.16	0	0	0	0	0	0
9/11/2024 14:04	42201	SHEN_T2	2	2	0	2.3	0.7	-1.6	0.14	0.23	1	1	0	600	600	0
9/11/2024 14:06	47502	NECO_T1	5	7	2	0.24	0.29	0.05	1.04	1.16	0	0	0	0	0	0
9/11/2024 14:06	64101	REFR_T1	1	1	0	0.7	0.2	-0.5	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 14:07	64101	REFR_T1	1	1	0	0.7	0.2	-0.5	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 14:07	48301	ORWI_T2	2	2	0	3.9	4.05	0.15	-0.24	-0.32	1	1	0	900	900	0
9/11/2024 14:08	55001	NEWP_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/11/2024 14:08	64101	REFR_T1	1	1	0	0.7	0.2	-0.5	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 14:08	55002	NEWP_T1	7	7	0	0.97	1.47	0.5	0	0	0	0	0	0	0	0
9/11/2024 14:09	64101	REFR_T1	1	1	0	0.7	0.2	-0.5	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 14:09	48301	ORWI_T1	2	2	0	3.9	4.05	0.15	-0.24	-0.32	1	1	0	900	900	0
9/11/2024 14:09	48302	ORWI_T2	1	2	1	0.3	0.25	-0.05	0.27	0.28	0	0	0	0	0	0
9/11/2024 14:10	64101	REFR_T1	1	1	0	0.7	0.2	-0.5	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 14:10	45602	WOOL_T1	1	1	0	0.3	0.5	0.2	0.82	0.81	0	0	0	0	0	0
9/11/2024 14:11	66502	SMAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/11/2024 14:11	66504	SMAN_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/11/2024 14:11	66501	SMAN_T2	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
9/11/2024 14:14	44301	BEAV_T2	4	7	3	0.2	0.36	0.16	0.71	0.55	2	1	-1	1500	600	-900
9/11/2024 14:15	10801	CHHI_T1	9	6	-3	0.93	0.75	-0.18	-0.91	-0.9	2	2	0	1500	1500	0
9/11/2024 14:16	28701	HAML_T2	3	2	-1	0.77	0.65	-0.12	0	0	0	0	0	0	0	0
9/11/2024 14:16	28702	HAML_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
9/11/2024 14:20	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 14:20	28701	HAML_T2	3	2	-1	0.77	0.65	-0.12	0	0	0	0	0	0	0	0
9/11/2024 14:21	53501	EVIL_T2	2	2	0	0.45	0.25	-0.2	-0.01	-0.01	3	3	0	2100	2100	0
9/11/2024 14:24	56501	ROCK_T2	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
9/11/2024 14:24	56504	ROCK_T2	1	0	-1	2.3	0	-2.3	0.06	0.07	0	0	0	0	0	0
9/11/2024 14:25	56504	ROCK_T2	1	0	-1	2.3	0	-2.3	0.06	0.07	0	0	0	0	0	0
9/11/2024 14:25	64101	REFR_T1	1	7	6	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 14:25	56501	ROCK_T2	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
9/11/2024 14:25	55101	WERT_T1	0	0	0	0	0	0	-1.6	-1.58	4	4	0	3300	3300	0
9/11/2024 14:26	56504	ROCK_T2	1	0	-1	2.3	0	-2.3	0.11	0.15	0	0	0	0	0	0
9/11/2024 14:26	67703	WERN_T2	1	0	-1	0.5	0	-0.5	0.19	0.25	1	1	0	900	900	0
9/11/2024 14:26	67702	WERN_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
9/11/2024 14:26	56501	ROCK_T2	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
9/11/2024 14:27	56501	ROCK_T2	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
9/11/2024 14:27	52204	DEVO_T2	3	4	1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
9/11/2024 14:27	66901	SHIL_T2	1	0	-1	0.3	0	-0.3	-1.14	-1.13	1	1	0	1200	1200	0
9/11/2024 14:27	56504	ROCK_T2	1	0	-1	2.3	0	-2.3	0.06	0.07	0	0	0	0	0	0
9/11/2024 14:27	52202	DEVO_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
9/11/2024 14:27	66902	SHIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/11/2024 14:27	66903	SHIL_T2	1	1	0	1.2	0.5	-0.7	0	0	0	0	0	0	0	0
9/11/2024 14:30	52202	DEVO_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
9/11/2024 14:30	52204	DEVO_T2	4	5	1	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
9/11/2024 14:31	52202	DEVO_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
9/11/2024 14:31	53601	DALM_T2	1	1	0	0.9	1.2	0.3	-0.03	-0.02	0	0	0	0	0	0
9/11/2024 14:31	52204	DEVO_T2	4	5	1	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
9/11/2024 14:31	41204	KENM_T2	14	0	-14	4.38	0	-4.38	0.53	0.54	0	0	0	0	0	0
9/11/2024 14:32	60101	COCA_T1	0	0	0	0	0	0	0.66	0.73	0	0	0	0	0	0
9/11/2024 14:32	52204	DEVO_T2	4	5	1	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
9/11/2024 14:32	52202	DEVO_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
9/11/2024 14:34	40101	HUNT_T2	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
9/11/2024 14:35	65501	MOJO_T1	0	0	0	0	0	0	-1.71	-1.74	2	2	0	1800	1800	0
9/11/2024 14:36	13303	ORVI_T1	2	3	1	0.15	0.13	-0.02	0.11	1.48	0	0	0	0	0	0
9/11/2024 14:37	67502	WEWI_T2	2	2	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
9/11/2024 14:37	41903	REED_T1	0	0	0	0	0	0	0.66	0.74	2	2	0	2400	2400	0
9/11/2024 14:37	67503	WEWI_T2	1	1	0	7.3	6.9	-0.4	0.26	0.29	0	0	0	0	0	0
9/11/2024 14:37	41902	REED_T1	1	0	-1	1.8	0	-1.8	0	0	0	0	0	0	0	0
9/11/2024 14:38	13303	ORVI_T1	2	3	1	0.15	0.13	-0.02	0.11	1.48	0	0	0	0	0	0
9/11/2024 14:43	61501	EPET_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
9/11/2024 14:43	61506	EPET_T2	0	0	0	0	0	0	-1.16	-1.23	2	2	0	1800	1800	0
9/11/2024 14:44	40802	EXCH_T2	1	0	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
9/11/2024 14:44	40801	EXCH_T2	0	0	0	0	0	0	-0.14	-0.15	1	1	0	1200	1200	0
9/11/2024 14:45	64101	REFR_T1	7	1	-6	0.19	0	-0.19	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 14:48	25402	LAHA_T2	3	2	-1	0.5	0.45	-0.05	-0.18	-0.2	0	0	0	0	0	0
9/11/2024 14:49	20601	GRWO_T2	121	147	26	0.6	0.39	-0.21	1.36	1.36	0	0	0	0	0	0
9/11/2024 14:50	40101	HUNT_T2	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
9/11/2024 14:55	55101	WERT_T1	0	0	0	0	0	0	-5.16	-4.76	12	12	0	9900	9900	0
9/11/2024 14:56	64101	REFR_T1	7	1	-6	0.19	0	-0.19	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 14:57	55101	WERT_T1	0	0	0	0	0	0	-1.72	-1.59	4	4	0	3300	3300	0
9/11/2024 14:58	55101	WERT_T1	0	0	0	0	0	0	-1.72	-1.59	4	4	0	3300	3300	0
9/11/2024 14:58	58202	NEWV_T1	0	0	0	0	0	0	0.38	0.43	0	0	0	0	0	0
9/11/2024 14:59	64101	REFR_T1	7	1	-6	0.19	0	-0.19	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 15:00	41304	FISH_T2	1	1	0	0	0	0	-1.16	-1.15	0	0	0	0	0	0
9/11/2024 15:00	63306	GREE_T1	2	3	1	0.3	0.27	-0.03	-1.72	-1.69	1	1	0	900	900	0
9/11/2024 15:00	63305	GREE_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/11/2024 15:00	63303	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 15:01	57401	SPAN_T1	1	0	-1	0.2	0	-0.2	-0.15	-0.18	1	1	0	600	600	0
9/11/2024 15:02	40802	EXCH_T2	0	0	0	0	0	0	-0.01	-0.08	0	0	0	0	0	0
9/11/2024 15:05	63501	HEID_TBK1-2	48	47	-1	1.12	0.89	-0.23	0.53	0.48	1	1	0	900	900	0
9/11/2024 15:06	20401	ASHF_T2	6	4	-2	0.8	0.23	-0.57	0	0	0	0	0	0	0	0
9/11/2024 15:06	20403	ASHF_T2	4	6	2	0.33	0.52	0.19	0.62	1.03	0	0	0	0	0	0
9/11/2024 15:06	20402	ASHF_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
9/11/2024 15:06	17002	RIRO_T2	20	41	21	0.26	0.24	-0.02	0.82	0.85	0	0	0	0	0	0
9/11/2024 15:10	55101	WERT_T1	0	0	0	0	0	0	-1.59	-1.59	4	4	0	3300	3300	0
9/11/2024 15:11	55101	WERT_T1	0	0	0	0	0	0	-3.17	-3.19	8	8	0	6600	6600	0
9/11/2024 15:11	13503	MCMI_T2	1	5	4	0.9	0.34	-0.56	-0.01	0.03	0	0	0	0	0	0
9/11/2024 15:13	55101	WERT_T1	0	0	0	0	0	0	-1.59	-1.59	4	4	0	3300	3300	0
9/11/2024 15:14	60101	COCA_T1	0	0	0	0	0	0	0.69	0.71	0	0	0	0	0	0
9/11/2024 15:14	47901	HRDG_T1	0	0	0	0	0	0	1.02	1.06	1	1	0	1200	1200	0
9/11/2024 15:15	46203	DANV_T2	1	1	0	6.3	5.8	-0.5	0	0	0	0	0	0	0	0
9/11/2024 15:15	47901	HRDG_T1	0	0	0	0	0	0	1.02	1.06	1	1	0	1200	1200	0
9/11/2024 15:15	46206	DANV_T2	1	1	0	2.1	2	-0.1	3.25	3.3	4	4	0	4200	4200	0
9/11/2024 15:16	54505	ENOL_T2	0	0	0	0	0	0	-0.63	-0.63	1	1	0	600	600	0
9/11/2024 15:17	46203	DANV_T2	1	1	0	6.3	5.8	-0.5	0	0	0	0	0	0	0	0
9/11/2024 15:17	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 15:17	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 15:17	64201	KINZ_T1	0	3	3	0	0.3	0.3	-0.34	-0.39	4	4	0	2100	2100	0
9/11/2024 15:17	64204	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
9/11/2024 15:17	64203	KINZ_T1	2	4	2	0.7	1.05	0.35	0	0	0	0	0	0	0	0
9/11/2024 15:17	46206	DANV_T2	1	1	0	2.1	2	-0.1	1.62	1.65	2	2	0	2100	2100	0
9/11/2024 15:22	64101	REFR_T1	0	2	2	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 15:25	48301	ORWI_T1	2	2	0	4.65	4.6	-0.05	-0.42	-0.42	1	1	0	900	900	0
9/11/2024 15:28	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 15:29	47401	PENS_T1	4	3	-1	0.8	1.23	0.43	-0.23	-0.17	0	0	0	0	0	0
9/11/2024 15:29	47403	PENS_T1	24	6	-18	0.39	0.57	0.18	0	0	0	0	0	0	0	0
9/11/2024 15:29	47402	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/11/2024 15:30	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 15:30	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 15:31	46802	HEPB_T1	1	1	0	0.5	0.5	0	0.04	0	0	0	0	0	0	0
9/11/2024 15:32	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 15:35	64204	KINZ_T1	1	3	2	0.6	0.6	0	0	0	0	0	0	0	0	0
9/11/2024 15:35	25402	LAHA_T2	1	0	-1	0.3	0	-0.3	-0.28	-0.3	0	0	0	0	0	0
9/11/2024 15:35	64202	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/11/2024 15:35	64201	KINZ_T1	3	2	-1	0.43	0	-0.43	0	0	0	0	0	0	0	0
9/11/2024 15:35	64203	KINZ_T1	2	4	2	1.4	0.2	-1.2	0.22	0.25	3	3	0	2100	2100	0
9/11/2024 15:37	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 15:37	55002	NEWP_T1	3	3	0	0.83	1.17	0.34	0	0	0	0	0	0	0	0
9/11/2024 15:38	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 15:38	64101	REFR_T1	2	3	1	0.3	0.45	0.15	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 15:38	55002	NEWP_T1	3	3	0	0.83	1.17	0.34	0	0	0	0	0	0	0	0
9/11/2024 15:40	55101	WERT_T1	0	0	0	0	0	0	-1.64	-1.59	4	4	0	3300	3300	0
9/11/2024 15:41	48301	ORWI_T1	2	2	0	4.45	4.65	0.2	-0.42	-0.43	1	1	0	900	900	0
9/11/2024 15:41	60701	BREC_T1	0	0	0	0	0	0	-1.28	-0.4	4	2	-2	2400	1200	-1200
9/11/2024 15:43	60701	BREC_T1	0	0	0	0	0	0	-0.64	-0.2	2	1	-1	1200	600	-600
9/11/2024 15:44	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 15:44	60701	BREC_T1	0	0	0	0	0	0	-0.64	-0.2	2	1	-1	1200	600	-600
9/11/2024 15:46	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 15:46	40802	EXCH_T2	0	1	1	0	0.5	0.5	-0.15	-0.16	0	0	0	0	0	0
9/11/2024 15:46	66501	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/11/2024 15:52	52004	LING_T2	2	2	0	5.2	5.35	0.15	0.27	0.29	0	0	0	0	0	0
9/11/2024 15:54	65802	RTWN_T2	0	0	0	0	0	0	0.25	0.19	0	0	0	0	0	0
9/11/2024 15:55	24105	EHAZ_T1	4	4	0	7.08	6.68	-0.4	0	0	0	0	0	0	0	0
9/11/2024 15:55	24102	EHAZ_T1	0	0	0	0	0	0	0.61	0.65	0	0	0	0	0	0
9/11/2024 15:55	24104	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 15:56	48301	ORWI_T1	2	2	0	4.6	5	0.4	-0.43	-0.43	1	1	0	900	900	0
9/11/2024 15:56	55101	WERT_T1	0	0	0	0	0	0	-1.59	-1.56	4	4	0	3300	3300	0
9/11/2024 15:59	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 16:02	51402	LYKE_T1	1	10	9	0.4	0.18	-0.22	-1.91	-1.97	2	2	0	1200	1200	0
9/11/2024 16:04	20601	GRWO_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/11/2024 16:04	51402	LYKE_T1	1	10	9	0.4	0.18	-0.22	0	0	0	0	0	0	0	0
9/11/2024 16:04	20603	GRWO_T2	0	0	0	0	0	0	-0.45	-0.47	1	1	0	900	900	0
9/11/2024 16:04	51401	LYKE_T1	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
9/11/2024 16:12	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 16:12	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/11/2024 16:16	12002	HATF_T1	1	1	0	0.5	0.8	0.3	0.55	0.53	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/11/2024 16:19	12701	MACU_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
9/11/2024 16:34	42903	MIDD_T2	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
9/11/2024 16:34	42902	MIDD_T2	0	1	1	0	0	0	-0.98	-1.05	1	1	0	600	600	0
9/11/2024 16:34	42901	MIDD_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/11/2024 16:34	12701	MACU_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
9/11/2024 16:35	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
9/11/2024 16:40	67702	WERN_T2	0	0	0	0	0	0	0.93	0.92	0	0	0	0	0	0
9/11/2024 16:42	63601	LETO_T1	0	0	0	0	0	0	1.6	1.76	4	4	0	4200	4200	0
9/11/2024 16:45	48902	FOSP_T2	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
9/11/2024 16:50	20603	GRWO_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
9/11/2024 16:50	20601	GRWO_T2	2	11	9	0.1	0.18	0.08	0	0	0	0	0	0	0	0
9/11/2024 16:51	15603	NSTR_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
9/11/2024 16:51	15601	NSTR_T2	3	3	0	0.2	0.47	0.27	0	0	0	0	0	0	0	0
9/11/2024 16:59	22003	BOHE_T1	95	220	125	0.16	0.26	0.1	-0.2	-0.2	0	0	0	0	0	0
9/11/2024 17:00	41301	FISH_T1	2	3	1	0.7	1.27	0.57	0.03	0.04	0	0	0	0	0	0
9/11/2024 17:00	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/11/2024 17:01	44201	POIN_T1	0	0	0	0	0	0	-1.34	-1.31	2	2	0	2100	2100	0
9/11/2024 17:03	41301	FISH_T1	2	3	1	0.7	1.27	0.57	0	0	0	0	0	0	0	0
9/11/2024 17:05	65503	MOJO_T2	0	0	0	0	0	0	-0.38	-0.36	1	1	0	900	900	0
9/11/2024 17:12	45501	DERR_T2	0	0	0	0	0	0	1.14	1.06	4	4	0	3600	3600	0
9/11/2024 17:15	63306	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/11/2024 17:15	63305	GREE_T1	3	7	4	0.2	0.19	-0.01	-1.68	-1.7	1	1	0	900	900	0
9/11/2024 17:16	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 17:16	45501	DERR_T2	0	0	0	0	0	0	0.57	0.53	2	2	0	1800	1800	0
9/11/2024 17:19	63306	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/11/2024 17:19	63305	GREE_T1	3	7	4	0.2	0.19	-0.01	-1.68	-1.7	1	1	0	900	900	0
9/11/2024 17:20	64204	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 17:20	64203	KINZ_T1	0	0	0	0	0	0	-1.14	-1	2	2	0	1800	1800	0
9/11/2024 17:20	64202	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/11/2024 17:27	61303	EARL_T1	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
9/11/2024 17:29	22905	HARW_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
9/11/2024 17:29	22903	HARW_T1	0	1	1	0	0	0	0.31	0.28	0	0	0	0	0	0
9/11/2024 17:30	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/11/2024 17:30	50105	HARR_T3	6	0	0	6.98	6.7	-0.28	0	0	0	0	0	0	0	0
9/11/2024 17:30	50107	HARR_T3	1	1	0	7.7	7.3	-0.4	0	0	0	0	0	0	0	0
9/11/2024 17:31	50105	HARR_T3	6	6	0	6.98	6.7	-0.28	0	0	0	0	0	0	0	0
9/11/2024 17:31	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/11/2024 17:31	50107	HARR_T3	1	1	0	7.7	7.3	-0.4	0	0	0	0	0	0	0	0
9/11/2024 17:33	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/11/2024 17:33	50107	HARR_T3	1	1	0	7.7	7.3	-0.4	0	0	0	0	0	0	0	0
9/11/2024 17:33	50105	HARR_T3	6	6	0	6.98	6.7	-0.28	0	0	0	0	0	0	0	0
9/11/2024 17:46	50105	HARR_T3	6	7	1	6.88	6.37	-0.51	0	0	0	0	0	0	0	0
9/11/2024 17:46	50201	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 17:46	50107	HARR_T3	1	1	0	7.3	7.3	0	0	0	0	0	0	0	0	0
9/11/2024 17:48	63403	HONY_T2	1	0	-1	0.8	0.4	-0.4	-0.92	-0.92	1	1	0	600	600	0
9/11/2024 17:53	47502	NECO_T1	1	1	0	0.5	0.6	0.1	1	1.09	0	0	0	0	0	0
9/11/2024 17:54	55002	NEWP_T1	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
9/11/2024 17:54	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 17:56	45602	WOOL_T1	0	0	0	0	0	0	0.89	0.9	0	0	0	0	0	0
9/11/2024 18:02	50107	HARR_T3	1	1	0	7.6	7.3	-0.3	0	0	0	0	0	0	0	0
9/11/2024 18:02	50105	HARR_T3	6	7	1	6.7	6.32	-0.38	0	0	0	0	0	0	0	0
9/11/2024 18:02	50201	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 18:06	41902	REED_T1	4	4	0	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
9/11/2024 18:06	41903	REED_T1	0	0	0	0	0	0	0.17	0.2	1	1	0	1200	1200	0
9/11/2024 18:06	41901	REED_T1	2	7	5	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
9/11/2024 18:12	14802	TREI_T2	0	0	0	0	0	0	0.83	0.8	0	0	0	0	0	0
9/11/2024 18:14	10701	CATA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 18:14	10702	CATA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 18:14	10705	CATA_T2	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
9/11/2024 18:15	54203	PENN_T1	16	18	2	0.46	0.61	0.15	0	0	0	0	0	0	0	0
9/11/2024 18:15	49803	UNIV_T1	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
9/11/2024 18:15	54201	PENN_T1	6	17	11	0.85	0.49	-0.36	-0.55	-0.6	0	0	0	0	0	0
9/11/2024 18:15	10702	CATA_T2	3	0	-3	6.8	0	-6.8	0	0	0	0	0	0	0	0
9/11/2024 18:15	49804	UNIV_T1	1	0	-1	0.2	0	-0.2	-0.15	-0.1	0	0	0	0	0	0
9/11/2024 18:15	10701	CATA_T2	2	1	-1	8.05	0	-8.05	0	0	0	0	0	0	0	0
9/11/2024 18:15	10705	CATA_T2	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
9/11/2024 18:19	49803	UNIV_T1	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
9/11/2024 18:19	49804	UNIV_T1	1	0	-1	0.2	0	-0.2	-0.15	-0.1	0	0	0	0	0	0
9/11/2024 18:20	46102	MACI_T1	0	0	0	0	0	0	0.83	0.83	0	0	0	0	0	0
9/11/2024 18:24	14601	SWHI_T1	0	0	0	0	0	0	-1.17	-1.19	0	0	0	0	0	0
9/11/2024 18:24	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/11/2024 18:26	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/11/2024 18:26	14601	SWHI_T1	0	0	0	0	0	0	-1.17	-1.19	0	0	0	0	0	0
9/11/2024 18:32	12006	HATF_T1	2	0	-2	5.1	0	-5.1	-0.01	-0.03	2	2	0	2400	2400	0
9/11/2024 18:32	12002	HATF_T1	1	1	0	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
9/11/2024 18:32	12001	HATF_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/11/2024 18:34	63501	HEID_TBK1-2	48	48	0	1.15	0.88	-0.27	0.01	0.04	1	1	0	900	900	0
9/11/2024 18:37	42903	MIDD_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/11/2024 18:37	42902	MIDD_T2	1	0	-1	0.4	0	-0.4	-1.06	-1.04	1	1	0	600	600	0
9/11/2024 20:05	45801	HEGI_T1	0	0	0	0	0	0	-0.03	0.07	1	1	0	900	900	0
9/11/2024 20:09	57401	SPAN_T1	2	6	4	0.8	0.37	-0.43	-1.04	-1.01	1	1	0	600	600	0
9/11/2024 20:14	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 20:15	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 20:18	21501	CEAV_T2	0	0	0	0	0	0	-0.26	-0.45	1	1	0	1200	1200	0
9/11/2024 20:20	65401	MARI_T1	0	2	2	0	0.3	0.3	0.12	0.13	0	0	0	0	0	0
9/11/2024 20:20	42302	MOWR_T2	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
9/11/2024 20:21	65401	MARI_T1	0	2	2	0	0.3	0.3	0.13	0.11	0	0	0	0	0	0
9/11/2024 20:22	53501	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1200	1200	0
9/11/2024 20:22	47101	MARL_T1	0	0	0	0	0	0	-0.03	-0.08	0	0	0	0	0	0
9/11/2024 20:24	53802	MBRG_T2	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
9/11/2024 20:24	53801	MBRG_T2	12	27	15	0.11	0.11	0	0	0	0	0	0	0	0	0
9/11/2024 20:28	57401	SPAN_T1	6	2	-4	0.35	0.9	0.55	-1.01	-1.12	1	1	0	600	600	0
9/11/2024 20:34	45901	AUBU_T1	0	0	0	0	0	0	1.76	1.75	0	0	0	0	0	0
9/11/2024 20:34	48302	ORWI_T2	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
9/11/2024 20:35	45902	AUBU_T1	0	0	0	0	0	0	-0.97	-0.95	1	1	0	600	600	0
9/11/2024 20:35	61801	EELI_T2	0	0	0	0	0	0	-0.49	-0.53	1	1	0	600	600	0
9/11/2024 20:36	45902	AUBU_T1	0	0	0	0	0	0	-2.86	-2.86	3	3	0	1800	1800	0
9/11/2024 20:36	45901	AUBU_T1	0	0	0	0	0	0	1.75	1.73	0	0	0	0	0	0
9/11/2024 20:36	52004	LING_T2	2	2	0	5.55	5.85	0.3	0.25	0.24	0	0	0	0	0	0
9/11/2024 20:38	45902	AUBU_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	600	600	0
9/11/2024 20:39	45901	AUBU_T1	0	0	0	0	0	0	1.75	1.73	0	0	0	0	0	0
9/11/2024 20:46	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 20:46	43304	WATS_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/11/2024 20:46	43302	WATS_T2	4	4	0	0.3	0.78	0.48	-0.66	-0.69	2	2	0	1800	1800	0
9/11/2024 20:54	44801	EDAN_T2	37	80	43	0.33	0.34	0.01	0	0	0	0	0	0	0	0
9/11/2024 20:54	44802	EDAN_T2	0	0	0	0	0	0	-0.58	-0.61	0	0	0	0	0	0
9/11/2024 20:59	67402	WAKE_T2	0	0	0	0	0	0	-0.22	-0.22	1	1	0	600	600	0
9/11/2024 21:01	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:04	44502	HAMI_T2	1	1	0	2.8	2.9	0.1	-0.59	-0.61	0	0	0	0	0	0
9/11/2024 21:08	41902	REED_T1	0	0	0	0	0	0	1.15	1.1	0	0	0	0	0	0
9/11/2024 21:08	28703	HAML_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 21:08	28704	HAML_T2	1	1	0	0.2	0.4	0.2	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 21:08	41901	REED_T1	9	9	0	0.37	0.59	0.22	0	0	0	0	0	0	0	0
9/11/2024 21:10	23201	HIRU_T2	3	14	11	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/11/2024 21:10	23202	HIRU_T2	0	14	14	0	0.16	0.16	0.1	0.1	0	0	0	0	0	0
9/11/2024 21:10	23203	HIRU_T2	0	18	18	0	0.12	0.12	0	0	0	0	0	0	0	0
9/11/2024 21:13	17002	RIRO_T2	0	53	53	0	0.16	0.16	0.46	0.44	0	0	0	0	0	0
9/11/2024 21:13	61303	EARL_T1	0	0	0	0	0	0	0.15	0.01	0	0	0	0	0	0
9/11/2024 21:13	15601	NSTR_T2	3	3	0	0.23	0.8	0.57	0	0	0	0	0	0	0	0
9/11/2024 21:13	15603	NSTR_T2	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
9/11/2024 21:13	63602	LETO_T1	51	70	19	0.13	0.2	0.07	-0.7	-0.71	1	1	0	600	600	0
9/11/2024 21:13	26704	HEML_T2	46	73	27	0.12	0.21	0.09	-0.72	-0.71	1	1	0	1200	1200	0
9/11/2024 21:14	15704	TANN_T1	0	0	0	0	0	0	-0.26	-0.46	0	0	0	0	0	0
9/11/2024 21:14	24901	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:14	24902	WHHA_T1	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
9/11/2024 21:14	15701	TANN_T1	1	1	0	5	5.3	0.3	0	0	0	0	0	0	0	0
9/11/2024 21:15	15703	TANN_T2	1	1	0	5	4.8	-0.2	0	0	0	0	0	0	0	0
9/11/2024 21:15	15702	TANN_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
9/11/2024 21:15	13905	SEID_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
9/11/2024 21:15	12402	MILF_T1	1	0	-1	0.2	0	-0.2	1	1	0	0	0	0	0	0
9/11/2024 21:15	16402	MOPO_T1	0	0	0	0	0	0	0.66	0.7	0	0	0	0	0	0
9/11/2024 21:15	14802	TREI_T2	5	6	1	0.13	0.16	0.03	0	0	0	0	0	0	0	0
9/11/2024 21:15	14502	SCHO_T1	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
9/11/2024 21:15	14801	TREI_T2	5	6	1	0.12	0.18	0.06	0.63	0.61	0	0	0	0	0	0
9/11/2024 21:16	65803	RTWN_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
9/11/2024 21:16	28702	HAML_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
9/11/2024 21:16	16101	BING_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
9/11/2024 21:16	46002	BERW_T2	0	0	0	0	0	0	-0.92	-0.94	1	1	0	900	900	0
9/11/2024 21:16	46004	BERW_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/11/2024 21:16	23203	HIRU_T2	17	19	2	0.12	0.12	0	0.17	0.1	0	0	0	0	0	0
9/11/2024 21:16	28703	HAML_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 21:16	23201	HIRU_T2	11	13	2	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
9/11/2024 21:16	65802	RTWN_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
9/11/2024 21:16	23202	HIRU_T2	12	9	-3	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
9/11/2024 21:16	28704	HAML_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
9/11/2024 21:17	48301	ORWI_T1	2	2	0	5.95	5.1	-0.85	-0.61	-0.18	1	0	-1	900	0	-900
9/11/2024 21:17	11901	ETCK_T2	0	0	0	0	0	0	0.47	0.43	0	0	0	0	0	0
9/11/2024 21:17	67502	WEWI_T2	6	115	109	0.12	0.18	0.06	-1.11	-1.15	1	1	0	900	900	0
9/11/2024 21:17	67503	WEWI_T2	1	1	0	7.3	7.7	0.4	0	0	0	0	0	0	0	0
9/11/2024 21:17	24902	WHHA_T1	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
9/11/2024 21:17	16302	ALPA_T2	0	0	0	0	0	0	1.6	1.6	0	0	0	0	0	0
9/11/2024 21:18	14401	SSLA_T1	3	5	2	0.27	0.24	-0.03	-0.43	-0.45	0	0	0	0	0	0
9/11/2024 21:18	47901	HRDG_T1	0	0	0	0	0	0	1.29	1.67	0	0	0	0	0	0
9/11/2024 21:18	44502	HAMI_T2	1	1	0	2.9	2.9	0	-0.61	-0.6	0	0	0	0	0	0
9/11/2024 21:18	12807	MICK_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
9/11/2024 21:18	20603	GRWO_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
9/11/2024 21:18	23201	HIRU_T2	11	13	2	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
9/11/2024 21:18	16302	ALPA_T2	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0	0
9/11/2024 21:18	40101	HUNT_T2	0	0	0	0	0	0	-0.65	-0.68	0	0	0	0	0	0
9/11/2024 21:18	41304	FISH_T2	1	1	0	0	0	0	0.31	0.32	0	0	0	0	0	0
9/11/2024 21:18	14402	SSLA_T1	29	41	12	0.12	0.14	0.02	0	0	0	0	0	0	0	0
9/11/2024 21:18	20601	GRWO_T2	0	1	1	0	0	0	0.79	0.78	0	0	0	0	0	0
9/11/2024 21:18	46102	MACI_T1	0	0	0	0	0	0	0.82	0.79	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/11/2024 21:18	12801	MICK_T1	0	0	0	0	0	0	-0.14	-0.18	0	0	0	0	0	0
9/11/2024 21:18	23202	HIRU_T2	12	9	-3	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
9/11/2024 21:18	23203	HIRU_T2	17	19	2	0.12	0.12	0	0.17	0.1	0	0	0	0	0	0
9/11/2024 21:18	14404	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:18	10805	CHHI_T2	1	1	0	7.8	7.2	-0.6	-0.68	-0.97	1	1	0	600	600	0
9/11/2024 21:19	63501	HEID_TBK1-2	45	40	-5	0.64	0.69	0.05	1.26	1.43	0	0	0	0	0	0
9/11/2024 21:19	65003	NEFF_T2	10	40	30	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
9/11/2024 21:19	26401	INOR_T1	1	1	0	9.3	9.5	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:19	11507	FREE_T2	0	0	0	0	0	0	1.23	1.12	0	0	0	0	0	0
9/11/2024 21:19	25404	LAHA_T2	101	154	53	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
9/11/2024 21:19	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
9/11/2024 21:19	65001	NEFF_T2	1	0	-1	0.1	0	-0.1	-0.57	-0.71	1	1	0	1200	1200	0
9/11/2024 21:19	43402	BENT_T1	0	0	0	0	0	0	-0.59	-0.61	1	1	0	600	600	0
9/11/2024 21:19	60101	COCA_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
9/11/2024 21:19	67605	WARW_T1	9	16	7	0.48	0.53	0.05	-1.07	-1.11	0	0	0	0	0	0
9/11/2024 21:19	26402	INOR_T1	0	0	0	0	0	0	-0.35	-0.39	0	0	0	0	0	0
9/11/2024 21:19	10805	CHHI_T2	1	1	0	7.8	7.2	-0.6	-0.68	-0.97	1	1	0	600	600	0
9/11/2024 21:19	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 21:19	25402	LAHA_T2	5	4	-1	0.1	0.13	0.03	-0.89	-0.89	0	0	0	0	0	0
9/11/2024 21:19	48302	ORWI_T2	2	2	0	1.05	0.9	-0.15	0.03	0.01	0	0	0	0	0	0
9/11/2024 21:20	63601	LETO_T1	0	1	1	0	0.1	0.1	0.64	0.65	2	2	0	2100	2100	0
9/11/2024 21:20	44801	EDAN_T2	78	125	47	0.35	0.43	0.08	0	0	0	0	0	0	0	0
9/11/2024 21:20	12605	MACA_T1	0	0	0	0	0	0	-0.3	0.37	0	0	0	0	0	0
9/11/2024 21:20	44203	POIN_T2	0	0	0	0	0	0	-0.4	-0.45	2	2	0	2100	2100	0
9/11/2024 21:20	45501	DERR_T2	0	0	0	0	0	0	0.2	0.21	2	2	0	1800	1800	0
9/11/2024 21:20	45902	AUBU_T1	0	8	8	0	0.2	0.2	-1.01	-1.02	1	1	0	600	600	0
9/11/2024 21:20	24902	WHHA_T1	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
9/11/2024 21:20	60701	BREC_T1	0	3	3	0	0.1	0.1	-0.39	-0.39	1	1	0	600	600	0
9/11/2024 21:20	41301	FISH_T1	2	2	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
9/11/2024 21:20	11202	ELHE_T2	0	0	0	0	0	0	0.61	0.58	0	0	0	0	0	0
9/11/2024 21:20	14203	EALL_T1	0	0	0	0	0	0	-0.19	-0.2	1	1	0	1200	1200	0
9/11/2024 21:20	63403	HONY_T2	0	0	0	0	0	0	-1.06	-1.09	1	1	0	600	600	0
9/11/2024 21:20	42601	TUSC_T1	0	0	0	0	0	0	-0.45	-0.5	2	2	0	1800	1800	0
9/11/2024 21:20	63602	LETO_T1	31	69	38	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/11/2024 21:20	24901	WHHA_T1	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
9/11/2024 21:20	64902	MILL_T2	0	0	0	0	0	0	-0.57	-0.4	1	1	0	900	900	0
9/11/2024 21:20	44802	EDAN_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
9/11/2024 21:21	50202	HARR_T3	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/11/2024 21:21	64201	KINZ_T1	0	4	4	0	0.28	0.28	-0.35	-0.39	3	3	0	1500	1500	0
9/11/2024 21:21	46302	ROHR_T1	5	0	0	0.96	0.86	-0.1	0	0	0	0	0	0	0	0
9/11/2024 21:21	50105	HARR_T3	6	6	0	5.6	6.12	0.52	0	0	0	0	0	0	0	0
9/11/2024 21:21	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:21	66903	SHIL_T2	5	16	11	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
9/11/2024 21:21	67502	WEWI_T2	6	115	109	0.12	0.18	0.06	0	0	0	0	0	0	0	0
9/11/2024 21:21	52202	DEVO_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
9/11/2024 21:21	42201	SHEN_T2	0	0	0	0	0	0	0.09	0.1	1	1	0	600	600	0
9/11/2024 21:21	63403	HONY_T2	0	0	0	0	0	0	-1.09	-0.51	1	1	0	600	600	0
9/11/2024 21:21	50103	HARR_T3	2	2	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
9/11/2024 21:21	66902	SHIL_T2	138	354	216	0.15	0.21	0.06	0	0	0	0	0	0	0	0
9/11/2024 21:21	67503	WEWI_T2	1	1	0	7.3	7.7	0.4	0.1	0.08	0	0	0	0	0	0
9/11/2024 21:21	12604	MACA_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
9/11/2024 21:21	10805	CHHI_T2	1	1	0	7.8	7.2	-0.6	-0.97	-1.01	1	1	0	600	600	0
9/11/2024 21:21	42701	AUGU_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
9/11/2024 21:21	16402	MOPO_T1	0	0	0	0	0	0	0.66	0.7	0	0	0	0	0	0
9/11/2024 21:21	64204	KINZ_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
9/11/2024 21:21	50107	HARR_T3	1	1	0	6.3	6.8	0.5	0	0	0	0	0	0	0	0
9/11/2024 21:21	66901	SHIL_T2	252	345	93	0.21	0.32	0.11	-1.53	-1.52	1	1	0	1200	1200	0
9/11/2024 21:21	46301	ROHR_T1	1	1	0	6.6	5.2	-1.4	0.18	0.17	0	0	0	0	0	0
9/11/2024 21:21	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:21	50201	HARR_T3	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
9/11/2024 21:21	11104	EGYP_T1	0	0	0	0	0	0	1.31	1.23	0	0	0	0	0	0
9/11/2024 21:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:21	13303	ORVI_T1	0	0	0	0	0	0	1.17	1.12	0	0	0	0	0	0
9/11/2024 21:21	64202	KINZ_T1	3	3	0	0.77	0.67	-0.1	0	0	0	0	0	0	0	0
9/11/2024 21:21	62607	ENGL_T1	0	0	0	0	0	0	-0.78	-0.8	1	1	0	300	300	0
9/11/2024 21:22	49803	UNIV_T1	1	1	0	5	4.7	-0.3	0	0	0	0	0	0	0	0
9/11/2024 21:22	61506	EPET_T2	0	0	0	0	0	0	-0.67	-0.76	1	1	0	900	900	0
9/11/2024 21:22	56501	ROCK_T2	2	2	0	0.3	0.5	0.2	0.16	0.12	0	0	0	0	0	0
9/11/2024 21:22	47401	PENS_T1	0	0	0	0	0	0	1.33	1.15	0	0	0	0	0	0
9/11/2024 21:22	63501	HEID_TBK1-2	45	40	-5	0.64	0.69	0.05	0.71	0.6	0	0	0	0	0	0
9/11/2024 21:22	22904	HARW_T1	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
9/11/2024 21:22	67502	WEWI_T2	6	115	109	0.12	0.18	0.06	-1.15	-1.22	1	1	0	900	900	0
9/11/2024 21:22	52004	LING_T2	2	2	0	6.15	6.15	0	0.25	0.24	0	0	0	0	0	0
9/11/2024 21:22	40101	HUNT_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
9/11/2024 21:22	63602	LETO_T1	31	69	38	0.15	0.2	0.05	-0.71	-0.17	1	0	-1	600	0	-600
9/11/2024 21:22	47203	FAXO_T2	0	0	0	0	0	0	-0.05	-0.1	0	0	0	0	0	0
9/11/2024 21:22	53501	EVIL_T2	1	1	0	0.6	1.2	0.6	-0.01	-0.01	1	1	0	600	600	0
9/11/2024 21:22	15702	TANN_T2	0	0	0	0	0	0	-0.34	-0.39	0	0	0	0	0	0
9/11/2024 21:22	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:22	45501	DERR_T2	0	0	0	0	0	0	0.21	0.07	2	2	0	1800	1800	0
9/11/2024 21:22	22003	BOHE_T1	48	120	72	0.15	0.15	0	-0.21	-0.21	0	0	0	0	0	0
9/11/2024 21:22	60502	NMAN_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
9/11/2024 21:22	49804	UNIV_T1	0	0	0	0	0	0	-0.49	-0.53	0	0	0	0	0	0
9/11/2024 21:22	20601	GRWO_T2	0	1	1	0	0	0	0.78	0.78	0	0	0	0	0	0
9/11/2024 21:22	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 21:22	67503	WEWI_T2	1	1	0	7.3	7.7	0.4	0	0	0	0	0	0	0	0
9/11/2024 21:22	15703	TANN_T2	1	1	0	5	4.8	-0.2	0	0	0	0	0	0	0	0
9/11/2024 21:22	66504	SMAN_T2	0	0	0	0	0	0	-0.12	-0.21	0	0	0	0	0	0
9/11/2024 21:22	61501	EPET_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
9/11/2024 21:23	55101	WERT_T1	0	0	0	0	0	0	-1.13	-1.17	2	2	0	1500	1500	0
9/11/2024 21:23	67002	STHI_T2	1	3	2	0.2	0.1	-0.1	0.88	0.85	0	0	0	0	0	0
9/11/2024 21:23	14802	TREI_T2	5	6	1	0.13	0.16	0.03	0.97	1.01	0	0	0	0	0	0
9/11/2024 21:23	42601	TUSC_T1	0	0	0	0	0	0	-0.5	-0.5	2	2	0	1800	1800	0
9/11/2024 21:23	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/11/2024 21:23	46802	HEPB_T1	1	1	0	0.6	1	0.4	-0.16	-0.19	0	0	0	0	0	0
9/11/2024 21:23	49803	UNIV_T1	1	1	0	5	4.7	-0.3	-2.19	-2.25	0	0	0	0	0	0
9/11/2024 21:23	46206	DANV_T2	0	0	0	0	0	0	1.47	1.48	2	2	0	2100	2100	0
9/11/2024 21:23	64602	LEOL_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
9/11/2024 21:23	15703	TANN_T2	1	1	0	5	4.8	-0.2	0	0	0	0	0	0	0	0
9/11/2024 21:23	46203	DANV_T2	1	1	0	8.2	8.5	0.3	0	0	0	0	0	0	0	0
9/11/2024 21:23	56504	ROCK_T2	0	0	0	0	0	0	-0.14	-0.21	0	0	0	0	0	0
9/11/2024 21:23	67503	WEWI_T2	1	1	0	7.3	7.7	0.4	0.1	0.08	0	0	0	0	0	0
9/11/2024 21:23	14801	TREI_T2	5	6	1	0.12	0.18	0.06	0	0	0	0	0	0	0	0
9/11/2024 21:23	15702	TANN_T2	0	0	0	0	0	0	-0.34	-0.39	0	0	0	0	0	0
9/11/2024 21:23	67603	WARW_T1	0	0	0	0	0	0	0.1	0.06	0	0	0	0	0	0
9/11/2024 21:23	46504	LOHA_T1	2	47	45	1.25	0.47	-0.78	0	0	0	0	0	0	0	0
9/11/2024 21:23	48301	ORWI_T1	2	2	0	5.95	5.1	-0.85	-0.18	0.23	0	0	0	0	0	0
9/11/2024 21:23	67001	STHI_T2	62	251	189	0.12	0.13	0.01	0	0	0	0	0	0	0	0
9/11/2024 21:23	56501	ROCK_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:23	41301	FISH_T1	2	2	0	0.75	0.7	-0.05	-0.02	-0.04	0	0	0	0	0	0
9/11/2024 21:23	42701	AUGU_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
9/11/2024 21:23	67605	WARW_T1	9	16	7	0.48	0.53	0.05	0	0	0	0	0	0	0	0
9/11/2024 21:23	44802	EDAN_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
9/11/2024 21:23	46501	LOHA_T1	0	1	1	0	0	0	0.18	0.15	1	1	0	1200	1200	0
9/11/2024 21:23	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:23	67502	WEWI_T2	6	115	109	0.12	0.18	0.06	0	0	0	0	0	0	0	0
9/11/2024 21:23	15203	SFAR_T2	0	9	9	0	0.1	0.1	-2.01	-2.04	0	0	0	0	0	0
9/11/2024 21:23	12605	MACA_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
9/11/2024 21:23	46506	LOHA_T1	3	3	0	5.17	5.7	0.53	0	0	0	0	0	0	0	0
9/11/2024 21:23	44801	EDAN_T2	78	125	47	0.35	0.43	0.08	0	0	0	0	0	0	0	0
9/11/2024 21:23	48902	FOSP_T2	0	0	0	0	0	0	0.07	0.1	0	0	0	0	0	0
9/11/2024 21:24	63401	HONY_T1	0	0	0	0	0	0	-0.05	-0.06	1	1	0	600	600	0
9/11/2024 21:24	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	-0.03	0	0	0	0	0	0
9/11/2024 21:24	53902	HALI_T2	1	1	0	5.6	5.2	-0.4	0	0	0	0	0	0	0	0
9/11/2024 21:24	65001	NEFF_T2	1	0	-1	0.1	0	-0.1	-0.71	-0.68	1	1	0	1200	1200	0
9/11/2024 21:24	60803	BUCK_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
9/11/2024 21:24	60101	COCA_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
9/11/2024 21:24	50103	HARR_T3	2	2	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
9/11/2024 21:24	41304	FISH_T2	1	1	0	0	0	0	0.32	0.26	0	0	0	0	0	0
9/11/2024 21:24	47401	PENS_T1	0	0	0	0	0	0	0.67	0.58	0	0	0	0	0	0
9/11/2024 21:24	20401	ASHF_T2	7	6	-1	0.44	0.53	0.09	0	0	0	0	0	0	0	0
9/11/2024 21:24	65003	NEFF_T2	10	40	30	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
9/11/2024 21:24	49803	UNIV_T1	1	1	0	5	4.7	-0.3	-2.19	-2.25	0	0	0	0	0	0
9/11/2024 21:24	44802	EDAN_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
9/11/2024 21:24	67605	WARW_T1	9	16	7	0.48	0.53	0.05	-2.21	-1.9	0	0	0	0	0	0
9/11/2024 21:24	53902	HALI_T2	3	5	2	0.53	0.5	-0.03	-1.15	-1.18	0	0	0	0	0	0
9/11/2024 21:24	60801	BUCK_T1	0	2	2	0	0.1	0.1	-0.19	-0.18	0	0	0	0	0	0
9/11/2024 21:24	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
9/11/2024 21:24	10702	CATA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/11/2024 21:24	44301	BEAV_T2	0	0	0	0	0	0	0.05	0.14	1	1	0	600	600	0
9/11/2024 21:24	53903	HALI_T2	2	2	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
9/11/2024 21:24	50202	HARR_T3	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/11/2024 21:24	50201	HARR_T3	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
9/11/2024 21:24	50105	HARR_T3	6	6	0	5.6	6.12	0.52	0	0	0	0	0	0	0	0
9/11/2024 21:24	50107	HARR_T3	1	1	0	6.3	6.8	0.5	0	0	0	0	0	0	0	0
9/11/2024 21:24	10705	CATA_T2	0	0	0	0	0	0	-1.06	0.23	0	0	0	0	0	0
9/11/2024 21:24	44801	EDAN_T2	78	125	47	0.35	0.43	0.08	0	0	0	0	0	0	0	0
9/11/2024 21:25	40802	EXCH_T2	6	2	-4	0.12	0.1	-0.02	-0.21	-0.26	0	0	0	0	0	0
9/11/2024 21:25	44505	HAMI_T2	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
9/11/2024 21:25	54203	PENN_T1	78	111	33	0.48	0.42	-0.06	0	0	0	0	0	0	0	0
9/11/2024 21:25	56504	ROCK_T2	0	0	0	0	0	0	-0.14	-0.21	0	0	0	0	0	0
9/11/2024 21:25	46206	DANV_T2	0	0	0	0	0	0	1.47	1.48	2	2	0	2100	2100	0
9/11/2024 21:25	56501	ROCK_T2	2	2	0	0.3	0.5	0.2	0.16	0.12	0	0	0	0	0	0
9/11/2024 21:25	16103	BING_T2	0	0	0	0	0	0	-1.26	-1.3	1	1	0	900	900	0
9/11/2024 21:25	46501	LOHA_T1	0	1	1	0	0	0	0.18	0.15	1	1	0	1200	1200	0
9/11/2024 21:25	13303	ORVI_T1	0	0	0	0	0	0	1.17	1.12	0	0	0	0	0	0
9/11/2024 21:25	65205	PRIN_T1	7	5	-2	0.37	0.52	0.15	0	0	0	0	0	0	0	0
9/11/2024 21:25	46504	LOHA_T1	2	47	45	1.25	0.47	-0.78	0	0	0	0	0	0	0	0
9/11/2024 21:25	59301	MCAL_T1	2	2	0	1.15	1.35	0.2	-1.92	-1.28	1	0	-1	600	0	-600
9/11/2024 21:25	40801	EXCH_T2	5	3	-2	0.28	0.3	0.02	0	0	0	0	0	0	0	0
9/11/2024 21:25	63601	LETO_T1	0	1	1	0	0.1	0.1	0.65	0.62	2	2	0	2100	2100	0
9/11/2024 21:25	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0.44	0.41	0	0	0	0	0	0
9/11/2024 21:25	54205	PENN_T1	56	92	36	0.21	0.22	0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/11/2024 21:25	24901	WHHA_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
9/11/2024 21:25	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:25	63602	LETO_T1	31	69	38	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/11/2024 21:25	67505	WEWI_T1	0	0	0	0	0	0	0.18	0.2	1	1	0	900	900	0
9/11/2024 21:25	46203	DANV_T2	1	1	0	8.2	8.5	0.3	0	0	0	0	0	0	0	0
9/11/2024 21:25	54201	PENN_T1	96	139	43	0.45	0.45	0	-0.68	-0.74	0	0	0	0	0	0
9/11/2024 21:25	42802	SELI_T1	1	1	0	0.3	0.2	-0.1	-1.23	-1.22	1	1	0	900	900	0
9/11/2024 21:25	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/11/2024 21:25	66504	SMAN_T2	0	0	0	0	0	0	-0.06	-0.1	0	0	0	0	0	0
9/11/2024 21:25	44203	POIN_T2	0	0	0	0	0	0	-0.45	-0.3	2	2	0	2100	2100	0
9/11/2024 21:25	67502	WEWI_T2	6	115	109	0.12	0.18	0.06	-1.15	-1.22	1	1	0	900	900	0
9/11/2024 21:25	52002	LING_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
9/11/2024 21:25	67503	WEWI_T2	1	1	0	7.3	7.7	0.4	0	0	0	0	0	0	0	0
9/11/2024 21:25	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:25	12006	HATF_T1	0	0	0	0	0	0	-0.41	0.42	2	1	-1	2400	1200	-1200
9/11/2024 21:25	67605	WARW_T1	9	16	7	0.48	0.53	0.05	-1.11	-0.95	0	0	0	0	0	0
9/11/2024 21:25	59302	MCAL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:25	44502	HAMI_T2	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
9/11/2024 21:25	48301	ORWI_T1	2	2	0	5.95	5.1	-0.85	-0.18	0.23	0	0	0	0	0	0
9/11/2024 21:25	50501	MECH_T1	4	4	0	0.53	0.6	0.07	0	0	0	0	0	0	0	0
9/11/2024 21:25	43302	WATS_T2	4	4	0	0.78	0.98	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:25	46506	LOHA_T1	3	3	0	5.17	5.7	0.53	0	0	0	0	0	0	0	0
9/11/2024 21:25	10805	CHHI_T2	1	1	0	7.8	7.2	-0.6	-0.97	-1.01	1	1	0	600	600	0
9/11/2024 21:25	50502	MECH_T1	89	91	2	0.25	0.2	-0.05	-0.29	-0.31	2	2	0	2100	2100	0
9/11/2024 21:25	63501	HEID_TBK1-2	45	40	-5	0.64	0.69	0.05	0.71	0.6	0	0	0	0	0	0
9/11/2024 21:25	52004	LING_T2	2	2	0	6.15	6.15	0	0.25	0.24	0	0	0	0	0	0
9/11/2024 21:26	41901	REED_T1	9	9	0	0.46	0.56	0.1	0	0	0	0	0	0	0	0
9/11/2024 21:26	53501	EVIL_T2	1	1	0	0.6	1.2	0.6	-0.01	-0.01	2	2	0	1200	1200	0
9/11/2024 21:26	63306	GREE_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/11/2024 21:26	56501	ROCK_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:26	54201	PENN_T1	96	139	43	0.45	0.45	0	-0.68	-0.74	0	0	0	0	0	0
9/11/2024 21:26	53601	DALM_T2	1	1	0	0.5	0.3	-0.2	0.12	0.06	0	0	0	0	0	0
9/11/2024 21:26	42503	ALTA_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
9/11/2024 21:26	54205	PENN_T1	56	92	36	0.21	0.22	0.01	0	0	0	0	0	0	0	0
9/11/2024 21:26	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 21:26	43304	WATS_T2	0	0	0	0	0	0	-1.2	-1.15	0	0	0	0	0	0
9/11/2024 21:26	66505	SMAN_T2	0	3	3	0	0.2	0.2	0.36	0.16	2	2	0	1500	1500	0
9/11/2024 21:26	15702	TANN_T2	0	0	0	0	0	0	-0.34	-0.39	0	0	0	0	0	0
9/11/2024 21:26	64503	LAVI_T1	0	0	0	0	0	0	-0.32	-0.41	1	1	0	1200	1200	0
9/11/2024 21:26	15703	TANN_T2	1	1	0	5	4.8	-0.2	0	0	0	0	0	0	0	0
9/11/2024 21:26	59101	WALK_T2	0	0	0	0	0	0	0.7	0.67	1	1	0	600	600	0
9/11/2024 21:26	12002	HATF_T1	0	0	0	0	0	0	0.25	0.16	1	1	0	1200	1200	0
9/11/2024 21:26	54203	PENN_T1	78	111	33	0.48	0.42	-0.06	0	0	0	0	0	0	0	0
9/11/2024 21:26	41903	REED_T1	0	0	0	0	0	0	0.07	-0.02	1	1	0	1200	1200	0
9/11/2024 21:26	50501	MECH_T1	4	4	0	0.53	0.6	0.07	-0.39	-0.58	0	0	0	0	0	0
9/11/2024 21:26	67702	WERN_T2	0	0	0	0	0	0	0.61	0.58	0	0	0	0	0	0
9/11/2024 21:26	66502	SMAN_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
9/11/2024 21:26	45501	DERR_T2	0	0	0	0	0	0	0.21	0.07	2	2	0	1800	1800	0
9/11/2024 21:26	50502	MECH_T1	89	91	2	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
9/11/2024 21:26	42701	AUGU_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
9/11/2024 21:26	67605	WARW_T1	9	16	7	0.48	0.53	0.05	0	0	0	0	0	0	0	0
9/11/2024 21:26	63304	GREE_T1	3	21	18	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/11/2024 21:26	53901	HALI_T2	3	5	2	0.53	0.5	-0.03	-1.15	-1.18	0	0	0	0	0	0
9/11/2024 21:26	10801	CHHI_T1	0	0	0	0	0	0	-0.59	-0.61	1	1	0	900	900	0
9/11/2024 21:26	15203	SFAR_T2	0	0	0	0	0	0	-1	-1.02	0	0	0	0	0	0
9/11/2024 21:26	53903	HALI_T2	2	2	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
9/11/2024 21:26	16302	ALPA_T2	0	0	0	0	0	0	0.8	0.83	0	0	0	0	0	0
9/11/2024 21:26	63305	GREE_T1	15	15	0	0.45	0.43	-0.02	-2	-1.88	1	1	0	900	900	0
9/11/2024 21:26	53902	HALI_T2	1	1	0	5.6	5.2	-0.4	0	0	0	0	0	0	0	0
9/11/2024 21:26	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:26	57401	SPAN_T1	2	2	0	1	1.1	0.1	-0.55	-0.61	1	1	0	600	600	0
9/11/2024 21:26	45602	WOOL_T1	8	0	-8	0.16	0	-0.16	0.68	0.65	0	0	0	0	0	0
9/11/2024 21:26	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0.44	0.41	0	0	0	0	0	0
9/11/2024 21:26	56504	ROCK_T2	0	0	0	0	0	0	-0.14	-0.21	0	0	0	0	0	0
9/11/2024 21:26	47401	PENS_T1	0	0	0	0	0	0	0.67	0.58	0	0	0	0	0	0
9/11/2024 21:26	43302	WATS_T2	4	4	0	0.78	0.98	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:27	62605	ENGL_T1	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
9/11/2024 21:27	40801	EXCH_T2	5	3	-2	0.28	0.3	0.02	0	0	0	0	0	0	0	0
9/11/2024 21:27	50105	HARR_T3	6	6	0	5.6	6.12	0.52	0	0	0	0	0	0	0	0
9/11/2024 21:27	57401	SPAN_T1	2	2	0	1	1.1	0.1	-1.1	-1.22	2	2	0	1200	1200	0
9/11/2024 21:27	46506	LOHA_T1	3	3	0	5.17	5.7	0.53	0	0	0	0	0	0	0	0
9/11/2024 21:27	15402	WALL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:27	40802	EXCH_T2	6	2	-4	0.12	0.1	-0.02	-0.21	-0.26	0	0	0	0	0	0
9/11/2024 21:27	46004	BERW_T2	1	0	-1	0.2	0	-0.2	-0.13	-0.14	0	0	0	0	0	0
9/11/2024 21:27	50202	HARR_T3	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/11/2024 21:27	63305	GREE_T1	15	15	0	0.45	0.43	-0.02	-2	-1.88	1	1	0	900	900	0
9/11/2024 21:27	67604	WARW_T1	0	0	0	0	0	0	-0.01	0.07	0	0	0	0	0	0
9/11/2024 21:27	67702	WERN_T2	0	0	0	0	0	0	0.61	0.58	0	0	0	0	0	0
9/11/2024 21:27	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:27	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
9/11/2024 21:27	63501	HEID_TBK1-2	45	40	-5	0.64	0.69	0.05	0.71	0.6	0	0	0	0	0	0
9/11/2024 21:27	42701	AUGU_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
9/11/2024 21:27	67703	WERN_T2	0	0	0	0	0	0	0.07	0.05	1	1	0	900	900	0
9/11/2024 21:27	50201	HARR_T3	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
9/11/2024 21:27	50107	HARR_T3	1	1	0	6.3	6.8	0.5	0	0	0	0	0	0	0	0
9/11/2024 21:27	56504	ROCK_T2	0	0	0	0	0	0	-0.14	-0.21	0	0	0	0	0	0
9/11/2024 21:27	55002	NEWP_T1	2	4	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:27	60701	BREC_T1	0	3	3	0	0.1	0.1	-0.78	-0.85	2	2	0	1200	1200	0
9/11/2024 21:27	45502	DERR_T2	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
9/11/2024 21:27	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0.44	0.41	0	0	0	0	0	0
9/11/2024 21:27	16002	DORN_T2	0	0	0	0	0	0	-0.53	-0.55	1	1	0	1200	1200	0
9/11/2024 21:27	63304	GREE_T1	3	21	18	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/11/2024 21:27	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:27	63306	GREE_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/11/2024 21:27	43302	WATS_T2	4	4	0	0.78	0.98	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:27	50103	HARR_T3	2	2	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
9/11/2024 21:27	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 21:27	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:27	46504	LOHA_T1	2	47	45	1.25	0.47	-0.78	0	0	0	0	0	0	0	0
9/11/2024 21:27	20401	ASHF_T2	7	6	-1	0.44	0.53	0.09	0	0	0	0	0	0	0	0
9/11/2024 21:27	67502	WEWI_T2	6	115	109	0.12	0.18	0.06	0	0	0	0	0	0	0	0
9/11/2024 21:27	64101	REFR_T1	10	0	-10	0.29	0	-0.29	-0.02	-0.02	0	0	0	0	0	0
9/11/2024 21:27	46501	LOHA_T1	0	1	1	0	0	0	0.18	0.15	1	1	0	1200	1200	0
9/11/2024 21:27	67503	WEWI_T2	1	1	0	7.3	7.7	0.4	0.1	0.08	0	0	0	0	0	0
9/11/2024 21:27	56501	ROCK_T2	2	2	0	0.3	0.5	0.2	0.16	0.12	0	0	0	0	0	0
9/11/2024 21:27	11104	EGYP_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
9/11/2024 21:27	67605	WARW_T1	9	16	7	0.48	0.53	0.05	0	0	0	0	0	0	0	0
9/11/2024 21:27	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:27	47901	HRDG_T1	0	0	0	0	0	0	1.67	1.45	0	0	0	0	0	0
9/11/2024 21:28	53501	EVIL_T2	1	1	0	0.6	1.2	0.6	-0.01	-0.01	1	1	0	600	600	0
9/11/2024 21:28	10702	CATA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/11/2024 21:28	45501	DERR_T2	0	0	0	0	0	0	0.21	0.07	2	2	0	1800	1800	0
9/11/2024 21:28	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
9/11/2024 21:28	67604	WARW_T1	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
9/11/2024 21:28	55002	NEWP_T1	2	4	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:28	65503	MOJO_T2	3	5	2	0.1	0.1	0	0.01	-0.08	0	0	0	0	0	0
9/11/2024 21:28	21705	SUBU_T1	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
9/11/2024 21:28	58402	MORO_T1	0	0	0	0	0	0	0.47	0.44	1	1	0	900	900	0
9/11/2024 21:28	45802	HEGI_T2	36	48	12	0.55	2.01	1.46	0.41	0.67	0	0	0	0	0	0
9/11/2024 21:28	13704	SCHN_T2	0	0	0	0	0	0	-0.39	-0.51	0	0	0	0	0	0
9/11/2024 21:28	14601	SWHI_T1	0	0	0	0	0	0	-0.69	-0.73	0	0	0	0	0	0
9/11/2024 21:28	63501	HEID_TBK1-2	45	40	-5	0.64	0.69	0.05	0.71	0.6	0	0	0	0	0	0
9/11/2024 21:28	57401	SPAN_T1	2	2	0	1	1.1	0.1	-1.1	-1.22	2	2	0	1200	1200	0
9/11/2024 21:28	13002	NBET_T2	0	0	0	0	0	0	-1.42	-1.48	2	2	0	2400	2400	0
9/11/2024 21:28	15001	BLMO_T1	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0	0
9/11/2024 21:28	56504	ROCK_T2	0	0	0	0	0	0	-0.14	-0.21	0	0	0	0	0	0
9/11/2024 21:28	60101	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:28	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:28	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 21:28	67605	WARW_T1	9	16	7	0.48	0.53	0.05	0	0	0	0	0	0	0	0
9/11/2024 21:28	20401	ASHF_T2	7	6	-1	0.44	0.53	0.09	0	0	0	0	0	0	0	0
9/11/2024 21:28	47401	PENS_T1	0	0	0	0	0	0	1.33	1.15	0	0	0	0	0	0
9/11/2024 21:28	64101	REFR_T1	10	0	-10	0.29	0	-0.29	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 21:28	40101	HUNT_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
9/11/2024 21:28	43304	WATS_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
9/11/2024 21:28	16005	DORN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:28	43301	WATS_T2	1	0	-1	0.2	0	-0.2	1.78	1.63	0	0	0	0	0	0
9/11/2024 21:28	42802	SELI_T1	1	1	0	0.3	0.2	-0.1	-1.23	-1.22	1	1	0	900	900	0
9/11/2024 21:28	63305	GREE_T1	15	15	0	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
9/11/2024 21:28	43302	WATS_T2	4	4	0	0.78	0.98	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:28	21701	SUBU_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
9/11/2024 21:28	42701	AUGU_T1	0	1	1	0	0	0	0	0	2	2	0	1200	1200	0
9/11/2024 21:28	63304	GREE_T1	3	21	18	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/11/2024 21:28	56501	ROCK_T2	2	2	0	0.3	0.5	0.2	0.16	0.12	0	0	0	0	0	0
9/11/2024 21:28	10705	CATA_T2	0	0	0	0	0	0	-1.06	0.23	0	0	0	0	0	0
9/11/2024 21:28	65502	MOJO_T2	76	156	80	0.14	0.14	0	0	0	0	0	0	0	0	0
9/11/2024 21:28	44801	EDAN_T2	78	125	47	0.35	0.43	0.08	-3.09	-3.14	0	0	0	0	0	0
9/11/2024 21:28	63306	GREE_T1	3	0	-3	0.1	0	-0.1	-1.39	-1.41	1	1	0	900	900	0
9/11/2024 21:28	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:28	21704	SUBU_T1	0	0	0	0	0	0	-2.36	-2.36	2	2	0	2400	2400	0
9/11/2024 21:28	53502	EVIL_T2	0	0	0	0	0	0	-0.01	-0.14	1	1	0	600	600	0
9/11/2024 21:29	64101	REFR_T1	10	0	-10	0.29	0	-0.29	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 21:29	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
9/11/2024 21:29	45501	DERR_T2	0	0	0	0	0	0	0.21	0.07	2	2	0	1800	1800	0
9/11/2024 21:29	43302	WATS_T2	4	4	0	0.78	0.98	0.2	-0.71	-0.73	2	2	0	1800	1800	0
9/11/2024 21:29	57401	SPAN_T1	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 21:29	43304	WATS_T2	0	0	0	0	0	0	-1.2	-1.15	0	0	0	0	0	0
9/11/2024 21:29	62605	ENGL_T1	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
9/11/2024 21:29	44801	EDAN_T2	78	125	47	0.35	0.43	0.08	-3.09	-3.14	0	0	0	0	0	0
9/11/2024 21:29	12701	MACU_T1	0	0	0	0	0	0	-1.11	-1.13	1	1	0	1200	1200	0
9/11/2024 21:29	14601	SWHI_T1	0	0	0	0	0	0	-0.69	-0.73	0	0	0	0	0	0
9/11/2024 21:29	56501	ROCK_T2	2	2	0	0.3	0.5	0.2	0.33	0.24	0	0	0	0	0	0
9/11/2024 21:29	55405	SHER_T1	14	11	-3	0.49	0.73	0.24	-0.17	-0.17	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/11/2024 21:29	12302	LANA_T2	0	0	0	0	0	0	-1.35	-1.39	2	2	0	1500	1500	0
9/11/2024 21:29	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0.44	0.41	0	0	0	0	0	0
9/11/2024 21:29	11301	EMMA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
9/11/2024 21:29	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:29	59101	WALK_T2	0	0	0	0	0	0	0.7	0.67	1	1	0	600	600	0
9/11/2024 21:29	52004	LING_T2	2	2	0	6.15	6.15	0	0.25	0.24	0	0	0	0	0	0
9/11/2024 21:29	61001	DONV_T1	0	0	0	0	0	0	0.31	0.24	0	0	0	0	0	0
9/11/2024 21:29	20401	ASHF_T2	7	6	-1	0.44	0.53	0.09	-0.19	-0.21	0	0	0	0	0	0
9/11/2024 21:29	67605	WARW_T1	9	16	7	0.48	0.53	0.05	-1.11	-0.95	0	0	0	0	0	0
9/11/2024 21:29	10801	CHHI_T1	0	0	0	0	0	0	-0.59	-0.61	1	1	0	900	900	0
9/11/2024 21:29	51402	LYKE_T1	0	0	0	0	0	0	-1.33	-1.34	1	1	0	600	600	0
9/11/2024 21:29	57403	SPAN_T1	0	1	1	0	0.1	0.1	0.21	0.16	0	0	0	0	0	0
9/11/2024 21:29	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:30	57403	SPAN_T1	1	15	14	0.1	0.19	0.09	0	0	0	0	0	0	0	0
9/11/2024 21:30	14201	EALL_T1	0	0	0	0	0	0	0.66	0.71	0	0	0	0	0	0
9/11/2024 21:30	20603	GRWO_T2	0	0	0	0	0	0	0.4	0.36	0	0	0	0	0	0
9/11/2024 21:30	67002	STHI_T2	0	7	7	0	0.11	0.11	0.88	0.85	0	0	0	0	0	0
9/11/2024 21:30	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:30	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:30	53501	EVIL_T2	1	2	1	0.9	0.7	-0.2	-0.01	-0.01	1	1	0	600	600	0
9/11/2024 21:30	42201	SHEN_T2	0	0	0	0	0	0	0.09	0.1	1	1	0	600	600	0
9/11/2024 21:30	53601	DALM_T2	1	1	0	0.3	0.2	-0.1	0.12	0.06	0	0	0	0	0	0
9/11/2024 21:30	52006	LING_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/11/2024 21:30	40101	HUNT_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
9/11/2024 21:30	53903	HALI_T2	2	2	0	1.75	1.8	0.05	0	0	0	0	0	0	0	0
9/11/2024 21:30	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
9/11/2024 21:30	57401	SPAN_T1	2	102	100	1	0.22	-0.78	-0.55	-0.61	1	1	0	600	600	0
9/11/2024 21:30	51204	MTON_T2	0	0	0	0	0	0	-0.31	-0.32	1	1	0	600	600	0
9/11/2024 21:30	20601	GRWO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/11/2024 21:30	67001	STHI_T2	52	357	305	0.12	0.18	0.06	0	0	0	0	0	0	0	0
9/11/2024 21:30	62605	ENGL_T1	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
9/11/2024 21:30	56504	ROCK_T2	0	0	0	0	0	0	-0.14	-0.21	0	0	0	0	0	0
9/11/2024 21:30	57205	ROSS_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
9/11/2024 21:30	42802	SELI_T1	1	0	-1	0.2	0	-0.2	-1.23	-1.22	1	1	0	900	900	0
9/11/2024 21:30	52002	LING_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
9/11/2024 21:30	56501	ROCK_T2	2	2	0	0.5	0.7	0.2	0.16	0.12	0	0	0	0	0	0
9/11/2024 21:30	55002	NEWP_T1	4	4	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
9/11/2024 21:30	61502	EPET_T1	0	0	0	0	0	0	-0.8	-0.87	0	0	0	0	0	0
9/11/2024 21:30	43302	WATS_T2	4	4	0	0.53	0.98	0.45	0	0	0	0	0	0	0	0
9/11/2024 21:30	52004	LING_T2	2	2	0	6.15	6.05	-0.1	0	0	0	0	0	0	0	0
9/11/2024 21:30	65901	SAKR_T2	1	1	0	8.3	8.5	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:30	65604	QVIL_T2	0	0	0	0	0	0	0.4	0.36	0	0	0	0	0	0
9/11/2024 21:30	64305	LINC_T1	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
9/11/2024 21:30	58202	NEWV_T1	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
9/11/2024 21:30	60701	BREC_T1	0	3	3	0	0.1	0.1	-0.39	-0.43	1	1	0	600	600	0
9/11/2024 21:30	52001	LING_T1	0	0	0	0	0	0	0.46	0.4	0	0	0	0	0	0
9/11/2024 21:30	65904	SAKR_T2	0	0	0	0	0	0	-1.67	-1.69	2	2	0	900	900	0
9/11/2024 21:30	44502	HAMI_T2	1	1	0	2.9	2.6	-0.3	0	0	0	0	0	0	0	0
9/11/2024 21:30	63501	HEID_TBK1-2	33	40	7	0.78	0.68	-0.1	0.71	0.6	0	0	0	0	0	0
9/11/2024 21:30	53901	HALI_T2	4	4	0	0.58	0.58	0	-1.15	-1.18	0	0	0	0	0	0
9/11/2024 21:30	44505	HAMI_T2	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
9/11/2024 21:30	43304	WATS_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
9/11/2024 21:31	54505	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:31	14802	TREI_T2	6	0	-6	0.16	0	-0.16	0.49	0.5	0	0	0	0	0	0
9/11/2024 21:31	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/11/2024 21:31	14403	SSLA_T1	0	0	0	0	0	0	0.7	0.66	0	0	0	0	0	0
9/11/2024 21:31	43402	BENT_T1	0	0	0	0	0	0	-0.61	-0.62	1	1	0	600	600	0
9/11/2024 21:31	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
9/11/2024 21:31	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:31	14801	TREI_T2	6	0	-6	0.18	0	-0.18	0	0	0	0	0	0	0	0
9/11/2024 21:31	60101	COCA_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
9/11/2024 21:31	43304	WATS_T2	0	0	0	0	0	0	-1.2	-1.15	0	0	0	0	0	0
9/11/2024 21:31	44802	EDAN_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
9/11/2024 21:31	64902	MILL_T2	0	0	0	0	0	0	-0.4	-0.42	1	1	0	900	900	0
9/11/2024 21:31	14401	SSLA_T1	5	0	-5	0.24	0	-0.24	0	0	0	0	0	0	0	0
9/11/2024 21:31	43301	WATS_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
9/11/2024 21:31	61803	EELI_T2	0	0	0	0	0	0	0.36	0.27	1	1	0	600	600	0
9/11/2024 21:31	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 21:31	59101	WALK_T2	0	0	0	0	0	0	1.4	1.35	2	2	0	1200	1200	0
9/11/2024 21:31	55101	WERT_T1	0	0	0	0	0	0	-2.26	-2.35	4	4	0	3000	3000	0
9/11/2024 21:31	42903	MIDD_T2	1	2	1	0.1	0.1	0	0	-0.03	0	0	0	0	0	0
9/11/2024 21:31	14404	SSLA_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:31	52202	DEVO_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
9/11/2024 21:31	44801	EDAN_T2	102	156	54	0.34	0.47	0.13	0	0	0	0	0	0	0	0
9/11/2024 21:31	14402	SSLA_T1	41	0	-41	0.14	0	-0.14	0	0	0	0	0	0	0	0
9/11/2024 21:31	46504	LOHA_T1	2	47	45	1.15	0.47	-0.68	0	0	0	0	0	0	0	0
9/11/2024 21:31	43302	WATS_T2	4	4	0	0.53	0.98	0.45	0	0	0	0	0	0	0	0
9/11/2024 21:31	46501	LOHA_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/11/2024 21:31	20401	ASHF_T2	6	2	-4	0.53	0.6	0.07	0	0	0	0	0	0	0	0
9/11/2024 21:31	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
9/11/2024 21:31	42701	AUGU_T1	0	1	1	0	1	1	0	0	1	1	0	600	600	0
9/11/2024 21:31	54501	ENOL_T2	0	0	0	0	0	0	-0.17	-0.22	1	1	0	600	600	0
9/11/2024 21:31	46506	LOHA_T1	3	3	0	5.53	5.73	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:31	54504	ENOL_T2	0	0	0	0	0	0	-1.33	-1.35	1	1	0	600	600	0
9/11/2024 21:31	58401	MORO_T1	0	0	0	0	0	0	0.98	1	1	1	0	600	600	0
9/11/2024 21:31	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:32	46501	LOHA_T1	1	1	0	0.4	0	-0.4	0.18	0.15	1	1	0	1200	1200	0
9/11/2024 21:32	55101	WERT_T1	0	0	0	0	0	0	-1.13	-1.17	2	2	0	1500	1500	0
9/11/2024 21:32	46504	LOHA_T1	2	47	45	1.15	0.47	-0.68	0	0	0	0	0	0	0	0
9/11/2024 21:32	43302	WATS_T2	4	4	0	0.53	0.98	0.45	0	0	0	0	0	0	0	0
9/11/2024 21:32	64203	KINZ_T1	0	0	0	0	0	0	-0.16	-0.14	1	1	0	600	600	0
9/11/2024 21:32	50202	HARR_T3	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
9/11/2024 21:32	64201	KINZ_T1	1	6	5	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
9/11/2024 21:32	55105	WERT_T1	0	0	0	0	0	0	-0.16	-0.18	1	1	0	900	900	0
9/11/2024 21:32	58401	MORO_T1	0	0	0	0	0	0	-1.96	-2	2	2	0	1200	1200	0
9/11/2024 21:32	43304	WATS_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
9/11/2024 21:32	64202	KINZ_T1	3	3	0	0.43	0.73	0.3	0	0	0	0	0	0	0	0
9/11/2024 21:32	46506	LOHA_T1	3	3	0	5.53	5.73	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:32	13303	ORVI_T1	0	0	0	0	0	0	1.17	1.12	0	0	0	0	0	0
9/11/2024 21:32	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 21:32	60101	COCA_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
9/11/2024 21:32	67605	WARW_T1	16	16	0	0.44	0.43	-0.01	-1.11	-0.95	0	0	0	0	0	0
9/11/2024 21:32	50105	HARR_T3	6	6	0	6.12	6.25	0.13	0	0	0	0	0	0	0	0
9/11/2024 21:32	64204	KINZ_T1	1	7	6	1.2	0.29	-0.91	0	0	0	0	0	0	0	0
9/11/2024 21:32	55002	NEWP_T1	4	4	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
9/11/2024 21:32	50107	HARR_T3	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
9/11/2024 21:32	50103	HARR_T3	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/11/2024 21:32	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:32	56501	ROCK_T2	2	2	0	0.5	0.7	0.2	0.16	0.12	0	0	0	0	0	0
9/11/2024 21:32	52202	DEVO_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
9/11/2024 21:32	67703	WERN_T2	0	0	0	0	0	0	0.07	0.05	1	1	0	900	900	0
9/11/2024 21:32	42802	SELI_T1	1	0	-1	0.2	0	-0.2	-1.23	-1.22	1	1	0	900	900	0
9/11/2024 21:33	46203	DANV_T2	1	1	0	8.5	8.7	0.2	0	0	0	0	0	0	0	0
9/11/2024 21:33	58401	MORO_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	600	600	0
9/11/2024 21:33	10702	CATA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/11/2024 21:33	44203	POIN_T2	0	0	0	0	0	0	-0.45	-0.3	2	2	0	2100	2100	0
9/11/2024 21:33	47502	NECO_T1	8	14	6	0.26	0.21	-0.05	1.06	0.97	0	0	0	0	0	0
9/11/2024 21:33	41902	REED_T1	0	0	0	0	0	0	2.21	2.27	0	0	0	0	0	0
9/11/2024 21:33	41901	REED_T1	9	9	0	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
9/11/2024 21:33	63305	GREE_T1	15	14	-1	0.43	0.24	-0.19	0	0	0	0	0	0	0	0
9/11/2024 21:33	63302	GREE_T1	0	0	0	0	0	0	0.51	0.45	0	0	0	0	0	0
9/11/2024 21:33	53903	HALI_T2	2	2	0	1.75	1.8	0.05	0	0	0	0	0	0	0	0
9/11/2024 21:33	43302	WATS_T2	4	4	0	0.53	0.98	0.45	0	0	0	0	0	0	0	0
9/11/2024 21:33	49803	UNIV_T1	1	1	0	4.8	4.6	-0.2	-2.19	-2.25	0	0	0	0	0	0
9/11/2024 21:33	43301	WATS_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
9/11/2024 21:33	49804	UNIV_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/11/2024 21:33	46206	DANV_T2	0	0	0	0	0	0	1.47	1.48	2	2	0	2100	2100	0
9/11/2024 21:33	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
9/11/2024 21:33	63304	GREE_T1	3	21	18	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/11/2024 21:33	45802	HEGI_T2	48	47	-1	2.01	1.13	-0.88	0.41	0.67	0	0	0	0	0	0
9/11/2024 21:33	43304	WATS_T2	0	0	0	0	0	0	-1.2	-1.15	0	0	0	0	0	0
9/11/2024 21:33	53901	HALI_T2	4	4	0	0.58	0.58	0	-1.15	-1.18	0	0	0	0	0	0
9/11/2024 21:33	58402	MORO_T1	0	0	0	0	0	0	0.47	0.44	1	1	0	900	900	0
9/11/2024 21:33	10701	CATA_T2	0	0	0	0	0	0	-0.55	-0.54	1	1	0	1200	1200	0
9/11/2024 21:34	55002	NEWP_T1	4	4	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
9/11/2024 21:34	40802	EXCH_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/11/2024 21:34	53501	EVIL_T2	1	2	1	0.9	0.7	-0.2	-0.01	-0.01	1	1	0	600	600	0
9/11/2024 21:34	53901	HALI_T2	4	4	0	0.58	0.58	0	-3.44	-3.54	0	0	0	0	0	0
9/11/2024 21:34	40101	HUNT_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
9/11/2024 21:34	49804	UNIV_T1	0	1	1	0	0.5	0.5	-0.49	-0.53	0	0	0	0	0	0
9/11/2024 21:34	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/11/2024 21:34	64801	MONE_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
9/11/2024 21:34	12701	MACU_T1	0	0	0	0	0	0	-1.11	-1.13	1	1	0	1200	1200	0
9/11/2024 21:34	56501	ROCK_T2	2	2	0	0.5	0.7	0.2	0.16	0.12	0	0	0	0	0	0
9/11/2024 21:34	57401	SPAN_T1	2	102	100	1	0.22	-0.78	-0.55	-0.61	1	1	0	600	600	0
9/11/2024 21:34	42802	SELI_T1	1	0	-1	0.2	0	-0.2	-2.47	-2.44	2	2	0	1800	1800	0
9/11/2024 21:34	64802	MONE_T2	0	0	0	0	0	0	0.13	0.24	0	0	0	0	0	0
9/11/2024 21:34	44201	POIN_T1	0	0	0	0	0	0	-1.51	-1.55	2	2	0	2100	2100	0
9/11/2024 21:34	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:34	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
9/11/2024 21:34	42201	SHEN_T2	0	0	0	0	0	0	0.09	0.1	1	1	0	600	600	0
9/11/2024 21:34	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:34	46001	BERW_T1	0	0	0	0	0	0	0.8	0.76	0	0	0	0	0	0
9/11/2024 21:34	49803	UNIV_T1	1	1	0	4.8	4.6	-0.2	0	0	0	0	0	0	0	0
9/11/2024 21:34	65503	MOJO_T2	4	9	5	0.1	0.1	0	0	0	0	0	0	0	0	0
9/11/2024 21:34	42903	MIDD_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/11/2024 21:34	65502	MOJO_T2	139	174	35	0.14	0.14	0	-1.37	-1.43	1	1	0	900	900	0
9/11/2024 21:34	40801	EXCH_T2	3	3	0	0.27	0.3	0.03	-0.35	-0.34	1	1	0	1200	1200	0
9/11/2024 21:34	57403	SPAN_T1	1	15	14	0.1	0.19	0.09	0	0	0	0	0	0	0	0
9/11/2024 21:34	42902	MIDD_T2	0	0	0	0	0	0	-0.21	-0.29	0	0	0	0	0	0
9/11/2024 21:34	43302	WATS_T2	4	4	0	0.53	0.98	0.45	0	0	0	0	0	0	0	0
9/11/2024 21:34	55101	WERT_T1	0	0	0	0	0	0	-1.13	-1.17	2	2	0	1500	1500	0
9/11/2024 21:34	53903	HALI_T2	2	2	0	1.75	1.8	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/11/2024 21:35	43304	WATS_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
9/11/2024 21:35	53901	HALI_T2	4	4	0	0.58	0.58	0	-1.15	-1.18	0	0	0	0	0	0
9/11/2024 21:35	57403	SPAN_T1	1	15	14	0.1	0.19	0.09	0	0	0	0	0	0	0	0
9/11/2024 21:35	45501	DERR_T2	0	0	0	0	0	0	0.21	0.07	2	2	0	1800	1800	0
9/11/2024 21:35	43302	WATS_T2	4	4	0	0.53	0.98	0.45	0	0	0	0	0	0	0	0
9/11/2024 21:35	53903	HALI_T2	2	2	0	1.75	1.8	0.05	0	0	0	0	0	0	0	0
9/11/2024 21:35	41001	LAUR_T2	55	65	10	0.17	0.18	0.01	0	0	0	0	0	0	0	0
9/11/2024 21:35	49803	UNIV_T1	1	1	0	4.8	4.6	-0.2	0	0	0	0	0	0	0	0
9/11/2024 21:35	66504	SMAN_T2	0	0	0	0	0	0	-0.06	-0.1	0	0	0	0	0	0
9/11/2024 21:35	53902	HALI_T2	1	1	0	5.2	5.3	0.1	-0.13	-0.12	0	0	0	0	0	0
9/11/2024 21:35	52004	LING_T2	2	2	0	6.15	6.05	-0.1	0.25	0.24	0	0	0	0	0	0
9/11/2024 21:35	52006	LING_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/11/2024 21:35	55002	NEWP_T1	4	4	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
9/11/2024 21:35	57401	SPAN_T1	2	102	100	1	0.22	-0.78	-1.1	-1.22	2	2	0	1200	1200	0
9/11/2024 21:35	49804	UNIV_T1	0	1	1	0	0.5	0.5	-0.49	-0.53	0	0	0	0	0	0
9/11/2024 21:35	55101	WERT_T1	0	0	0	0	0	0	-1.13	-1.17	2	2	0	1500	1500	0
9/11/2024 21:35	41901	REED_T1	9	9	0	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
9/11/2024 21:35	41002	LAUR_T2	6	31	25	0.47	0.21	-0.26	0.09	0.08	0	0	0	0	0	0
9/11/2024 21:35	66505	SMAN_T2	3	3	0	0.17	0.27	0.1	0	0	0	0	0	0	0	0
9/11/2024 21:36	53501	EVIL_T2	1	2	1	0.9	0.7	-0.2	-0.01	-0.01	1	1	0	600	600	0
9/11/2024 21:36	43301	WATS_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
9/11/2024 21:36	44802	EDAN_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
9/11/2024 21:36	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2024 21:36	43302	WATS_T2	4	4	0	0.53	0.98	0.45	0	0	0	0	0	0	0	0
9/11/2024 21:36	47401	PENS_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
9/11/2024 21:36	42802	SEU_T1	1	0	-1	0.2	0	-0.2	-1.22	-1.25	1	1	0	900	900	0
9/11/2024 21:36	43304	WATS_T2	0	0	0	0	0	0	-0.58	-0.23	0	0	0	0	0	0
9/11/2024 21:36	44801	EDAN_T2	102	156	54	0.34	0.47	0.13	0	0	0	0	0	0	0	0
9/11/2024 21:37	57401	SPAN_T1	2	102	100	1	0.22	-0.78	0	0	0	0	0	0	0	0
9/11/2024 21:37	57403	SPAN_T1	1	15	14	0.1	0.19	0.09	0.16	0.15	0	0	0	0	0	0
9/11/2024 21:39	60101	COCA_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
9/11/2024 21:40	43304	WATS_T2	0	0	0	0	0	0	-0.58	-0.23	0	0	0	0	0	0
9/11/2024 21:40	43302	WATS_T2	4	4	0	0.53	0.98	0.45	0	0	0	0	0	0	0	0
9/11/2024 21:41	52501	PROG_T1	0	0	0	0	0	0	0.13	0.09	1	1	0	300	300	0
9/11/2024 21:43	57401	SPAN_T1	2	102	100	1	0.22	-0.78	-0.61	-0.9	1	1	0	600	600	0
9/11/2024 21:43	57403	SPAN_T1	1	15	14	0.1	0.19	0.09	0	0	0	0	0	0	0	0
9/11/2024 21:45	45501	DERR_T2	0	0	0	0	0	0	0.07	0.16	2	2	0	1800	1800	0
9/11/2024 22:13	22903	HARW_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
9/11/2024 22:21	58202	NEWV_T1	0	0	0	0	0	0	0.22	0.15	0	0	0	0	0	0
9/11/2024 22:41	47001	HUGH_T2	3	3	0	8.2	7.73	-0.47	-0.99	-1.05	0	0	0	0	0	0
9/11/2024 23:31	56501	ROCK_T2	2	2	0	0.25	0.7	0.45	0	0	0	0	0	0	0	0
9/11/2024 23:31	56504	ROCK_T2	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
9/11/2024 23:33	47901	HRDG_T1	0	0	0	0	0	0	1.38	1.52	0	0	0	0	0	0
9/12/2024 1:21	47001	HUGH_T2	3	3	0	7.7	7.87	0.17	-1.24	-1.25	0	0	0	0	0	0
9/12/2024 1:25	50107	HARR_T3	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
9/12/2024 1:25	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 1:25	50105	HARR_T3	6	6	0	6.42	6.38	-0.04	0	0	0	0	0	0	0	0
9/12/2024 5:25	47502	NECO_T1	1	1	0	0.3	0.2	-0.1	0.72	0.69	0	0	0	0	0	0
9/12/2024 7:11	21501	CEAV_T2	0	0	0	0	0	0	0.54	0.66	0	0	0	0	0	0
9/12/2024 7:27	62102	ELAN_T1	0	0	0	0	0	0	0.56	0	0	0	0	0	0	0
9/12/2024 7:30	11901	ETEX_T2	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0
9/12/2024 7:32	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 7:35	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 7:37	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 7:39	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 7:40	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 7:43	61503	EPET_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 7:48	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 7:48	10206	ALLE_T2	1	1	0	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
9/12/2024 7:48	10102	ALLE_T2	1	1	0	6.3	6.7	0.4	0	0	0	0	0	0	0	0
9/12/2024 7:53	24902	WHHA_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
9/12/2024 7:53	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 7:54	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 7:57	24902	WHHA_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
9/12/2024 8:00	53502	EVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:00	53501	EVIL_T2	2	1	-1	1.15	1.5	0.35	0	0	0	0	0	0	0	0
9/12/2024 8:02	57006	WHHI_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
9/12/2024 8:02	57004	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:04	55002	NEWP_T1	5	7	2	0.64	0.83	0.19	0	0	0	0	0	0	0	0
9/12/2024 8:04	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:05	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:05	55002	NEWP_T1	5	7	2	0.64	0.83	0.19	0	0	0	0	0	0	0	0
9/12/2024 8:06	67505	WEWI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:12	53601	DALM_T2	1	1	0	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
9/12/2024 8:13	63305	GREE_T1	4	1	-3	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/12/2024 8:13	54502	ENOL_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
9/12/2024 8:13	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 8:13	54504	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:13	63306	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:13	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
9/12/2024 8:14	54503	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:14	54502	ENOL_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
9/12/2024 8:14	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 8:14	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
9/12/2024 8:15	54505	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/12/2024 8:15	54501	ENOL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/12/2024 8:15	54503	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:15	54502	ENOL_T2	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
9/12/2024 8:15	16004	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:16	16004	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:17	54502	ENOL_T2	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
9/12/2024 8:17	54501	ENOL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/12/2024 8:17	46602	LACR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:17	54505	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/12/2024 8:18	12601	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:20	66701	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:22	66503	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:24	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:25	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:25	66701	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:27	11801	FRAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:30	63501	HEID_TBK1-2	15	21	6	0.27	0.4	0.13	0	0	0	0	0	0	0	0
9/12/2024 8:32	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:32	12006	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:32	64901	MILL_T1	4	1	-3	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
9/12/2024 8:32	54505	ENOL_T2	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
9/12/2024 8:32	64904	MILL_T1	3	2	-1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
9/12/2024 8:32	54502	ENOL_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
9/12/2024 8:32	54506	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:33	64901	MILL_T1	4	1	-3	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
9/12/2024 8:33	64904	MILL_T1	3	2	-1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
9/12/2024 8:34	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:34	54505	ENOL_T2	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
9/12/2024 8:34	54503	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:34	54502	ENOL_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
9/12/2024 8:35	67103	SPRI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:37	14404	SSLA_T1	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0
9/12/2024 8:38	67503	WEWI_T2	1	1	0	9	8.8	-0.2	0	-0.19	0	0	0	0	0	0
9/12/2024 8:38	52502	PROG_T2	0	0	0	0	0	0	0	-0.67	0	0	0	0	0	0
9/12/2024 8:39	46001	BERW_T1	0	0	0	0	0	0	0	0.85	0	0	0	0	0	0
9/12/2024 8:39	55101	WERT_T1	0	0	0	0	0	0	0	-2.83	0	0	0	0	0	0
9/12/2024 8:39	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:40	44301	BEAV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/12/2024 8:42	63306	GREE_T1	0	0	0	0	0	0	0	-2.11	0	0	0	0	0	0
9/12/2024 8:42	63305	GREE_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/12/2024 8:42	46001	BERW_T1	0	0	0	0	0	0	0	0.85	0	0	0	0	0	0
9/12/2024 8:44	63306	GREE_T1	0	0	0	0	0	0	0	-2.11	0	0	0	0	0	0
9/12/2024 8:44	63305	GREE_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/12/2024 8:46	44801	EDAN_T2	133	159	26	0.38	0.47	0.09	0	-1.55	0	0	0	0	0	0
9/12/2024 8:46	40101	HUNT_T2	0	1	1	0	0.3	0.3	0	-0.4	0	0	0	0	0	0
9/12/2024 8:50	64801	MONE_T2	1	1	0	1	0.9	-0.1	0	0.28	0	0	0	0	0	0
9/12/2024 8:50	64802	MONE_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:53	59101	WALK_T2	1	2	1	1.5	0.35	-1.15	2.17	2.13	0	0	0	0	0	0
9/12/2024 8:53	59102	WALK_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/12/2024 8:54	59102	WALK_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/12/2024 8:54	59101	WALK_T2	1	2	1	1.5	0.35	-1.15	2.17	2.13	0	0	0	0	0	0
9/12/2024 8:54	67503	WEWI_T2	1	1	0	8.8	8.8	0	-0.19	-0.1	0	0	0	0	0	0
9/12/2024 8:54	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 8:57	59101	WALK_T2	1	2	1	1.5	0.35	-1.15	2.17	2.13	0	0	0	0	0	0
9/12/2024 8:57	59102	WALK_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/12/2024 8:59	40601	PIGR_T1	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/12/2024 8:59	40602	PIGR_T1	1	1	0	0.9	0.7	-0.2	-0.57	-0.54	0	1	1	0	600	600
9/12/2024 8:59	46801	HEPB_T2	2	2	0	0.8	0.95	0.15	0.59	0.61	0	0	0	0	0	0
9/12/2024 9:03	20802	LOPO_T1	0	1	1	0	0.1	0.1	-0.58	-0.58	0	1	1	0	600	600
9/12/2024 9:03	15601	NSTR_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/12/2024 9:03	20801	LOPO_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
9/12/2024 9:03	13501	MCMI_T1	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
9/12/2024 9:03	13503	MCMI_T2	1	1	0	0.1	0.6	0.5	-0.02	-0.02	0	0	0	0	0	0
9/12/2024 9:03	13502	MCMI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 9:03	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
9/12/2024 9:03	15604	NSTR_T1	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
9/12/2024 9:03	63403	HONY_T2	0	0	0	0	0	0	-0.22	-0.19	0	1	1	0	600	600
9/12/2024 9:03	15603	NSTR_T2	0	0	0	0	0	0	-0.36	-0.3	0	0	0	0	0	0
9/12/2024 9:03	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
9/12/2024 9:04	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 9:05	56501	ROCK_T2	3	3	0	0.33	0.3	-0.03	-0.07	-0.12	0	0	0	0	0	0
9/12/2024 9:05	57203	ROSS_T1	0	0	0	0	0	0	-0.57	-0.48	0	0	0	0	0	0
9/12/2024 9:05	57205	ROSS_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/12/2024 9:06	56501	ROCK_T2	3	3	0	0.33	0.3	-0.03	-0.07	-0.12	0	0	0	0	0	0
9/12/2024 9:08	20403	ASHF_T2	0	4	4	0	0.2	0.2	1.48	1.17	0	0	0	0	0	0
9/12/2024 9:08	20401	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/12/2024 9:10	45901	AUBU_T1	0	0	0	0	0	0	1.79	1.79	0	0	0	0	0	0
9/12/2024 9:10	45902	AUBU_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/12/2024 9:12	44801	EDAN_T2	153	159	6	0.44	0.46	0.02	-1.49	-1.53	0	0	0	0	0	0
9/12/2024 9:12	46001	BERW_T1	0	0	0	0	0	0	0.88	0.89	0	0	0	0	0	0
9/12/2024 9:12	53501	EVIL_T2	3	3	0	0.6	0.83	0.23	-0.01	-0.01	3	3	0	2100	2100	0
9/12/2024 9:13	53501	EVIL_T2	3	3	0	0.6	0.83	0.23	-0.01	-0.01	3	3	0	2100	2100	0
9/12/2024 9:15	53501	EVIL_T2	3	2	-1	0.67	0.95	0.28	-0.02	-0.02	9	9	0	6300	6300	0
9/12/2024 9:17	23203	HIRU_T2	0	0	0	0	0	0	0.03	0.14	0	0	0	0	0	0
9/12/2024 9:17	41902	REED_T1	0	0	0	0	0	0	1.15	1.1	0	0	0	0	0	0
9/12/2024 9:19	41902	REED_T1	0	0	0	0	0	0	1.15	1.1	0	0	0	0	0	0
9/12/2024 9:21	58402	MORO_T1	0	0	0	0	0	0	-0.02	-0.02	2	2	0	1500	1500	0
9/12/2024 9:21	22602	KIMB_T1	0	1	1	0	0.1	0.1	0.31	0.33	0	0	0	0	0	0
9/12/2024 9:23	45902	AUBU_T1	1	1	0	0.2	0.6	0.4	-0.68	-0.57	1	1	0	600	600	0
9/12/2024 9:23	64602	LEOL_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
9/12/2024 9:24	55002	NEWP_T1	5	6	1	0.94	0.93	-0.01	0	0	0	0	0	0	0	0
9/12/2024 9:24	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 9:26	45902	AUBU_T1	1	1	0	0.2	0.6	0.4	-0.68	-0.57	1	1	0	600	600	0
9/12/2024 9:27	45802	HEGI_T2	1	7	6	0.3	0.3	0	1.38	1.3	0	0	0	0	0	0
9/12/2024 9:27	15001	BLMO_T1	3	3	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/12/2024 9:29	40101	HUNT_T2	1	1	0	0.3	0.2	-0.1	-0.4	-0.39	0	0	0	0	0	0
9/12/2024 9:33	45802	HEGI_T2	4	10	6	0.35	0.28	-0.07	1.38	1.3	0	0	0	0	0	0
9/12/2024 9:35	15703	TANN_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
9/12/2024 9:35	42201	SHEN_T2	0	0	0	0	0	0	0.69	0.7	0	0	0	0	0	0
9/12/2024 9:35	20403	ASHF_T2	4	9	5	0.2	0.31	0.11	1.17	1.1	0	0	0	0	0	0
9/12/2024 9:35	20401	ASHF_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
9/12/2024 9:35	15702	TANN_T2	0	0	0	0	0	0	-0.39	-0.34	0	0	0	0	0	0
9/12/2024 9:35	66504	SMAN_T2	0	0	0	0	0	0	-0.11	-0.14	0	0	0	0	0	0
9/12/2024 9:36	13904	SEID_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
9/12/2024 9:38	66504	SMAN_T2	0	0	0	0	0	0	-0.27	-0.23	0	0	0	0	0	0
9/12/2024 9:38	13904	SEID_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
9/12/2024 9:39	67605	WARW_T1	12	21	9	0.32	0.5	0.18	-1.07	-1.07	0	0	0	0	0	0
9/12/2024 9:39	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 9:40	67605	WARW_T1	12	21	9	0.32	0.5	0.18	-1.07	-1.07	0	0	0	0	0	0
9/12/2024 9:40	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 9:43	53501	EVIL_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
9/12/2024 9:43	53502	EVIL_T2	0	0	0	0	0	0	0.13	-0.31	2	3	1	1200	2100	900
9/12/2024 9:47	50105	HARR_T3	6	6	0	6.63	6.62	-0.01	0	0	0	0	0	0	0	0
9/12/2024 9:47	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 9:47	50107	HARR_T3	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
9/12/2024 9:48	11205	ELHE_T1	1	0	-1	2.2	0	-2.2	0	0	0	0	0	0	0	0
9/12/2024 9:48	11203	ELHE_T1	0	0	0	0	0	0	1.31	1.36	0	0	0	0	0	0
9/12/2024 9:52	67804	WLAN_T1	2	1	-1	0.25	0.2	-0.05	-1.06	-1.06	0	0	0	0	0	0
9/12/2024 9:52	67803	WLAN_T1	0	0	0	0	0	0	-0.82	-0.8	0	0	0	0	0	0
9/12/2024 9:53	67801	WLAN_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
9/12/2024 9:53	67703	WERN_T2	0	0	0	0	0	0	0.02	-0.05	1	1	0	900	900	0
9/12/2024 9:53	67804	WLAN_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
9/12/2024 9:54	57401	SPAN_T1	220	264	44	0.3	0.28	-0.02	-2.39	-2.34	3	3	0	1800	1800	0
9/12/2024 9:54	28102	TWLA_T2	10	14	4	0.24	0.35	0.11	0.2	0.19	0	0	0	0	0	0
9/12/2024 9:54	57403	SPAN_T1	178	186	8	0.48	0.72	0.24	0	0	0	0	0	0	0	0
9/12/2024 9:54	67804	WLAN_T1	2	1	-1	0.25	0.2	-0.05	-1.06	-1.06	0	0	0	0	0	0
9/12/2024 9:55	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 9:55	57401	SPAN_T1	220	264	44	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
9/12/2024 9:55	57403	SPAN_T1	178	186	8	0.48	0.72	0.24	0.09	0.12	0	0	0	0	0	0
9/12/2024 9:55	67605	WARW_T1	21	16	-5	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/12/2024 9:56	67803	WLAN_T1	0	0	0	0	0	0	-0.82	-0.8	0	0	0	0	0	0
9/12/2024 9:56	67804	WLAN_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
9/12/2024 9:57	20403	ASHF_T2	9	4	-5	0.31	0.25	-0.06	1.33	1.37	0	0	0	0	0	0
9/12/2024 9:57	62601	ENGL_T1	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
9/12/2024 9:57	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 9:57	20401	ASHF_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/12/2024 9:57	56501	ROCK_T2	2	3	1	0.2	0.2	0	0	0	0	0	0	0	0	0
9/12/2024 9:57	56504	ROCK_T2	0	0	0	0	0	0	-0.07	-0.03	0	0	0	0	0	0
9/12/2024 9:59	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 10:00	52403	GRPA_T2	44	49	5	0.61	0.59	-0.02	-0.1	-0.1	0	0	0	0	0	0
9/12/2024 10:00	64904	MILL_T1	0	0	0	0	0	0	-0.59	-0.55	0	0	0	0	0	0
9/12/2024 10:00	64101	REFR_T1	0	1	1	0	0	0	-0.04	-0.04	0	0	0	0	0	0
9/12/2024 10:00	52402	GRPA_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/12/2024 10:00	67503	WEWI_T2	1	1	0	8.1	8	-0.1	-0.07	-0.06	0	0	0	0	0	0
9/12/2024 10:00	50107	HARR_T3	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
9/12/2024 10:00	50105	HARR_T3	6	6	0	6.62	6.53	-0.09	0	0	0	0	0	0	0	0
9/12/2024 10:00	67502	WEWI_T2	1	2	1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
9/12/2024 10:00	47901	HRDG_T1	0	0	0	0	0	0	2.22	2.27	0	0	0	0	0	0
9/12/2024 10:00	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 10:00	17002	RIRO_T2	68	37	-31	0.14	0.15	0.01	0.72	0.73	0	0	0	0	0	0
9/12/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	-0.48	-0.39	0	0	0	0	0	0
9/12/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.6	0.62	0	0	0	0	0	0
9/12/2024 10:00	28805	LAKE_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
9/12/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
9/12/2024 10:00	28102	TWLA_T2	13	15	2	0.33	0.45	0.12	0.2	0.19	0	0	0	0	0	0
9/12/2024 10:03	57006	WHIH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/12/2024 10:03	57002	WHIH_T2	0	0	0	0	0	0	-1.2	-1.25	1	1	0	1200	1200	0
9/12/2024 10:06	47101	MARL_T1	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
9/12/2024 10:07	64101	REFR_T1	0	1	1	0	0	0	-0.02	-0.02	0	0	0	0	0	0
9/12/2024 10:07	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 10:08	67804	WLAN_T1	1	1	0	0.2	0.2	0	-1.06	-1	0	0	0	0	0	0
9/12/2024 10:08	24902	WHHA_T1	1	1	0	0.2	0	-0.2	0.72	0.73	0	0	0	0	0	0
9/12/2024 10:08	56501	ROCK_T2	3	3	0	0.2	0.47	0.27	-0.03	0	0	0	0	0	0	0
9/12/2024 10:08	67801	WLAN_T1	0	0	0	0	0	0	0.26	0.32	0	0	0	0	0	0
9/12/2024 10:08	64101	REFR_T1	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/12/2024 10:09	43402	BENT_T1	0	1	1	0	0.2	0.2	0.47	-0.68	0	2	2	0	1200	1200
9/12/2024 10:09	44301	BEAV_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
9/12/2024 10:09	67503	WEWI_T2	1	1	0	8.1	8	-0.1	0	0	0	0	0	0	0	0
9/12/2024 10:09	43304	WATS_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
9/12/2024 10:09	24902	WHHA_T1	1	1	0	0.2	0	-0.2	0.72	0.73	0	0	0	0	0	0
9/12/2024 10:09	43301	WATS_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
9/12/2024 10:09	56501	ROCK_T2	3	3	0	0.2	0.47	0.27	-0.03	0	0	0	0	0	0	0
9/12/2024 10:09	67502	WEWI_T2	1	2	1	0.7	0.55	-0.15	-0.15	-0.15	0	0	0	0	0	0
9/12/2024 10:09	43302	WATS_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
9/12/2024 10:10	67603	WARW_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/12/2024 10:10	43302	WATS_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
9/12/2024 10:10	67605	WARW_T1	14	16	2	0.51	0.6	0.09	-1.02	-1.04	0	0	0	0	0	0
9/12/2024 10:10	43301	WATS_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
9/12/2024 10:10	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 10:10	67804	WLAN_T1	1	1	0	0.2	0.2	0	-1.06	-1	0	0	0	0	0	0
9/12/2024 10:11	61101	BERK_T5	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/12/2024 10:11	61103	BERK_T5	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
9/12/2024 10:11	20403	ASHF_T2	4	4	0	0.25	0.18	-0.07	1.37	1.43	0	0	0	0	0	0
9/12/2024 10:11	67603	WARW_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/12/2024 10:11	20401	ASHF_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/12/2024 10:11	61001	DONV_T1	1	1	0	0.9	0.5	-0.4	-0.15	-0.1	0	0	0	0	0	0
9/12/2024 10:11	67605	WARW_T1	14	16	2	0.51	0.6	0.09	-1.02	-1.04	0	0	0	0	0	0
9/12/2024 10:12	64204	KINZ_T1	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/12/2024 10:12	64201	KINZ_T1	0	0	0	0	0	0	-0.27	-0.16	4	4	0	2100	2100	0
9/12/2024 10:12	15001	BLMO_T1	2	8	6	0.35	0.26	-0.09	0	0	0	0	0	0	0	0
9/12/2024 10:13	50107	HARR_T3	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
9/12/2024 10:13	15001	BLMO_T1	2	8	6	0.35	0.26	-0.09	0	0	0	0	0	0	0	0
9/12/2024 10:13	67603	WARW_T1	1	1	0	0.1	0.2	0.1	0.07	0.09	0	0	0	0	0	0
9/12/2024 10:13	20403	ASHF_T2	4	4	0	0.25	0.18	-0.07	1.37	1.43	0	0	0	0	0	0
9/12/2024 10:13	50105	HARR_T3	6	6	0	6.62	6.53	-0.09	0	0	0	0	0	0	0	0
9/12/2024 10:13	20401	ASHF_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/12/2024 10:13	67605	WARW_T1	14	16	2	0.51	0.6	0.09	0	0	0	0	0	0	0	0
9/12/2024 10:13	53601	DALM_T2	1	1	0	1.2	0.5	-0.7	-0.46	-0.42	1	1	0	900	900	0
9/12/2024 10:13	48302	ORWI_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/12/2024 10:14	64204	KINZ_T1	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/12/2024 10:14	45902	AUBU_T1	1	1	0	0.1	0.9	0.8	-0.48	-0.47	1	1	0	600	600	0
9/12/2024 10:14	41902	REED_T1	0	1	1	0	0.5	0.5	1.18	1.18	0	0	0	0	0	0
9/12/2024 10:14	64201	KINZ_T1	0	0	0	0	0	0	-0.27	-0.16	4	4	0	2100	2100	0
9/12/2024 10:15	23201	HIRU_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
9/12/2024 10:15	23203	HIRU_T2	0	1	1	0	0.1	0.1	0.05	0.16	0	0	0	0	0	0
9/12/2024 10:15	25502	MADI_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/12/2024 10:15	53501	EVIL_T2	1	2	1	0.9	0.5	-0.4	-0.01	-0.01	3	2	-1	2100	1200	-900
9/12/2024 10:15	20601	GRWO_T2	1	10	9	1	0	-1	1.23	1.25	0	0	0	0	0	0
9/12/2024 10:15	40801	EXCH_T2	1	1	0	0.4	0.3	-0.1	-0.4	-0.39	1	1	0	1200	1200	0
9/12/2024 10:15	25501	MADI_T1	4	4	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/12/2024 10:15	46501	LOHA_T1	0	0	0	0	0	0	-0.12	-0.06	1	1	0	1200	1200	0
9/12/2024 10:15	53502	EVIL_T2	0	0	0	0	0	0	-0.35	-0.27	3	3	0	2100	2100	0
9/12/2024 10:15	46001	BERW_T1	0	0	0	0	0	0	1.01	1	0	0	0	0	0	0
9/12/2024 10:15	25503	MADI_T1	63	101	38	0.19	0.3	0.11	-0.99	-0.97	0	0	0	0	0	0
9/12/2024 10:15	46506	LOHA_T1	3	3	0	4.97	4.97	0	0	0	0	0	0	0	0	0
9/12/2024 10:15	46504	LOHA_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/12/2024 10:15	23202	HIRU_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/12/2024 10:15	40802	EXCH_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/12/2024 10:16	11507	FREE_T2	0	0	0	0	0	0	0.9	0.91	0	0	0	0	0	0
9/12/2024 10:16	20601	GRWO_T2	1	10	9	1	0	-1	1.23	1.25	0	0	0	0	0	0
9/12/2024 10:16	45902	AUBU_T1	1	1	0	0.5	1.1	0.6	-0.48	-0.47	1	1	0	600	600	0
9/12/2024 10:16	41902	REED_T1	1	1	0	0.5	0	-0.5	1.18	1.18	0	0	0	0	0	0
9/12/2024 10:16	53501	EVIL_T2	1	2	1	0.9	0.5	-0.4	-0.01	-0.01	3	2	-1	2100	1200	-900
9/12/2024 10:16	45801	HEGI_T1	0	0	0	0	0	0	0.05	0.09	1	1	0	900	900	0
9/12/2024 10:16	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.37	0	0	0	0	0	0
9/12/2024 10:17	16402	MOPO_T1	0	0	0	0	0	0	0.77	0.81	0	0	0	0	0	0
9/12/2024 10:17	23201	HIRU_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
9/12/2024 10:17	23202	HIRU_T2	1	2	1	0.1	0.15	0.05	0.1	0.1	0	0	0	0	0	0
9/12/2024 10:17	23203	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 10:18	53501	EVIL_T2	1	2	1	0.9	0.5	-0.4	-0.02	-0.02	9	6	-3	6300	3600	-2700
9/12/2024 10:18	16402	MOPO_T1	0	0	0	0	0	0	0.77	0.81	0	0	0	0	0	0
9/12/2024 10:19	46504	LOHA_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/12/2024 10:19	46506	LOHA_T1	3	3	0	4.97	4.97	0	0	0	0	0	0	0	0	0
9/12/2024 10:19	46501	LOHA_T1	0	0	0	0	0	0	-0.24	-0.12	2	2	0	2400	2400	0
9/12/2024 10:19	44203	POIN_T2	0	0	0	0	0	0	0.13	0.23	2	2	0	2100	2100	0
9/12/2024 10:20	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 10:20	12803	MICK_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/12/2024 10:20	12801	MICK_T1	0	0	0	0	0	0	-0.64	-0.67	1	1	0	600	600	0
9/12/2024 10:21	65001	NEFF_T2	0	0	0	0	0	0	-0.28	-0.13	1	1	0	1200	1200	0
9/12/2024 10:21	55002	NEWP_T1	5	6	1	0.98	0.92	-0.06	0	0	0	0	0	0	0	0
9/12/2024 10:21	15702	TANN_T2	1	1	0	0.1	0.3	0.2	-0.29	-0.34	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/12/2024 10:21	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 10:21	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/12/2024 10:22	63403	HONY_T2	0	0	0	0	0	0	0.1	0.11	1	1	0	600	600	0
9/12/2024 10:23	67804	WLAN_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
9/12/2024 10:23	67803	WLAN_T1	0	0	0	0	0	0	-0.77	-0.79	0	0	0	0	0	0
9/12/2024 10:23	42601	TUSC_T1	0	0	0	0	0	0	0.84	0.94	6	6	0	4800	4800	0
9/12/2024 10:25	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 10:26	15702	TANN_T2	1	1	0	0.1	0.3	0.2	-0.34	-0.31	0	0	0	0	0	0
9/12/2024 10:26	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/12/2024 10:26	67605	WARW_T1	16	20	4	0.59	0.4	-0.19	-1.04	-1	0	0	0	0	0	0
9/12/2024 10:26	67603	WARW_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/12/2024 10:26	55002	NEWP_T1	5	6	1	0.98	0.92	-0.06	0	0	0	0	0	0	0	0
9/12/2024 10:26	16103	BING_T2	0	0	0	0	0	0	-0.77	-0.73	2	2	0	1500	1500	0
9/12/2024 10:27	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 10:28	23202	HIRU_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/12/2024 10:28	44502	HAMI_T2	1	1	0	1.6	1.6	0	-0.59	-0.57	0	0	0	0	0	0
9/12/2024 10:28	53903	HALI_T2	2	2	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
9/12/2024 10:28	23201	HIRU_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
9/12/2024 10:28	23203	HIRU_T2	0	1	1	0	0.1	0.1	0.16	0.15	0	0	0	0	0	0
9/12/2024 10:28	53902	HALI_T2	1	2	1	5	3	-2	0	0	0	0	0	0	0	0
9/12/2024 10:28	53901	HALI_T2	1	3	2	0.9	0.73	-0.17	-1.16	-1.15	0	0	0	0	0	0
9/12/2024 10:29	53903	HALI_T2	2	2	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
9/12/2024 10:29	53902	HALI_T2	1	2	1	5	3	-2	0	0	0	0	0	0	0	0
9/12/2024 10:29	53901	HALI_T2	1	3	2	0.9	0.73	-0.17	-1.16	-1.15	0	0	0	0	0	0
9/12/2024 10:29	55002	NEWP_T1	5	6	1	0.98	0.92	-0.06	0	0	0	0	0	0	0	0
9/12/2024 10:30	53901	HALI_T2	3	4	1	0.73	0.6	-0.13	-1.16	-1.15	0	0	0	0	0	0
9/12/2024 10:30	53903	HALI_T2	2	2	0	1.3	1.2	-0.1	-0.07	-0.08	0	0	0	0	0	0
9/12/2024 10:30	53902	HALI_T2	2	2	0	3	2.7	-0.3	0	0	0	0	0	0	0	0
9/12/2024 10:31	23201	HIRU_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
9/12/2024 10:31	53901	HALI_T2	3	4	1	0.73	0.6	-0.13	-1.16	-1.15	0	0	0	0	0	0
9/12/2024 10:31	53903	HALI_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
9/12/2024 10:31	53902	HALI_T2	2	2	0	3	2.7	-0.3	0	0	0	0	0	0	0	0
9/12/2024 10:31	23203	HIRU_T2	1	0	-1	0.1	0	-0.1	0.16	0.15	0	0	0	0	0	0
9/12/2024 10:31	23202	HIRU_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
9/12/2024 10:32	55101	WERT_T1	0	0	0	0	0	0	-1.24	-1.09	3	3	0	2400	2400	0
9/12/2024 10:32	40101	HUNT_T2	0	1	1	0	0	0	-0.37	-0.36	0	0	0	0	0	0
9/12/2024 10:32	53901	HALI_T2	3	4	1	0.73	0.6	-0.13	-3.49	-3.44	0	0	0	0	0	0
9/12/2024 10:32	25402	LAHA_T2	7	9	2	0.17	0.2	0.03	-0.85	-0.83	0	0	0	0	0	0
9/12/2024 10:32	53903	HALI_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
9/12/2024 10:32	53902	HALI_T2	2	2	0	3	2.7	-0.3	-0.1	-0.14	0	0	0	0	0	0
9/12/2024 10:33	15602	NSTR_T2	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
9/12/2024 10:33	57306	MOAL_T2	0	0	0	0	0	0	-3.12	-3.12	1	1	0	1200	1200	0
9/12/2024 10:33	15001	BLMO_T1	8	4	-4	0.26	0.43	0.17	0	0	0	0	0	0	0	0
9/12/2024 10:33	15603	NSTR_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/12/2024 10:33	64801	MONE_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
9/12/2024 10:33	64802	MONE_T2	1	1	0	0.2	0.5	0.3	0.34	0.37	0	0	0	0	0	0
9/12/2024 10:33	57303	MOAL_T2	1	1	0	7.3	7.6	0.3	0	0	0	0	0	0	0	0
9/12/2024 10:33	15601	NSTR_T2	4	4	0	0.38	0.48	0.1	0	0	0	0	0	0	0	0
9/12/2024 10:35	64801	MONE_T2	2	2	0	0.6	0.65	0.05	0.33	0.36	0	0	0	0	0	0
9/12/2024 10:35	64802	MONE_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/12/2024 10:35	60502	NMAN_T2	0	0	0	0	0	0	0.03	0.11	0	0	0	0	0	0
9/12/2024 10:35	56504	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/12/2024 10:35	56501	ROCK_T2	3	3	0	0.47	0.47	0	0	0.03	0	0	0	0	0	0
9/12/2024 10:35	44902	SCOT_T2	0	0	0	0	0	0	-0.76	-0.74	0	0	0	0	0	0
9/12/2024 10:36	64801	MONE_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
9/12/2024 10:36	64802	MONE_T2	1	1	0	0.2	0.5	0.3	0.37	0.37	0	0	0	0	0	0
9/12/2024 10:37	67502	WEWI_T2	2	2	0	0.55	0.9	0.35	-0.17	-0.18	0	0	0	0	0	0
9/12/2024 10:37	56501	ROCK_T2	3	3	0	0.47	0.47	0	0.03	0.02	0	0	0	0	0	0
9/12/2024 10:37	67503	WEWI_T2	1	1	0	8	8.4	0.4	0	0	0	0	0	0	0	0
9/12/2024 10:37	56504	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/12/2024 10:38	57401	SPAN_T1	117	21	-96	0.28	0.5	0.22	-0.65	-0.64	1	1	0	600	600	0
9/12/2024 10:38	67804	WLAN_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
9/12/2024 10:38	56501	ROCK_T2	3	3	0	0.47	0.47	0	0.03	0.02	0	0	0	0	0	0
9/12/2024 10:38	15703	TANN_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
9/12/2024 10:38	15702	TANN_T2	1	1	0	0.3	0.1	-0.2	-0.31	-0.32	0	0	0	0	0	0
9/12/2024 10:38	56504	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/12/2024 10:38	57403	SPAN_T1	157	71	-86	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
9/12/2024 10:38	67803	WLAN_T1	0	1	1	0	0.1	0.1	-0.79	-0.75	0	0	0	0	0	0
9/12/2024 10:39	57403	SPAN_T1	157	71	-86	0.26	0.25	-0.01	0.24	0.24	0	0	0	0	0	0
9/12/2024 10:39	57401	SPAN_T1	117	21	-96	0.28	0.5	0.22	0	0	0	0	0	0	0	0
9/12/2024 10:40	45902	AUBU_T1	1	1	0	0.9	1.1	0.2	-0.49	-0.5	1	1	0	600	600	0
9/12/2024 10:40	56504	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/12/2024 10:40	56501	ROCK_T2	3	3	0	0.47	0.47	0	0.03	0.02	0	0	0	0	0	0
9/12/2024 10:40	57401	SPAN_T1	117	21	-96	0.28	0.5	0.22	-0.65	-0.64	1	1	0	600	600	0
9/12/2024 10:40	57403	SPAN_T1	157	71	-86	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
9/12/2024 10:40	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 10:40	67804	WLAN_T1	1	2	1	0.2	0.2	0	-2	-1.94	0	0	0	0	0	0
9/12/2024 10:41	57403	SPAN_T1	157	71	-86	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
9/12/2024 10:41	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 10:41	57401	SPAN_T1	117	21	-96	0.28	0.5	0.22	-1.96	-1.92	3	3	0	1800	1800	0
9/12/2024 10:41	45902	AUBU_T1	1	1	0	0.9	1.1	0.2	-0.49	-0.5	1	1	0	600	600	0
9/12/2024 10:41	67804	WLAN_T1	1	2	1	0.2	0.2	0	-1	-0.97	0	0	0	0	0	0
9/12/2024 10:42	67804	WLAN_T1	1	2	1	0.2	0.2	0	-1	-0.97	0	0	0	0	0	0
9/12/2024 10:42	57403	SPAN_T1	157	71	-86	0.26	0.25	-0.01	0.12	0.12	0	0	0	0	0	0
9/12/2024 10:42	57401	SPAN_T1	117	21	-96	0.28	0.5	0.22	-1.31	-1.28	2	2	0	1200	1200	0
9/12/2024 10:42	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 10:43	67603	WARW_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/12/2024 10:43	67605	WARW_T1	13	13	0	0.4	0.4	0	-1	-1	0	0	0	0	0	0
9/12/2024 10:44	50105	HARR_T3	6	6	0	6.53	6.27	-0.26	0	0	0	0	0	0	0	0
9/12/2024 10:44	23202	HIRU_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
9/12/2024 10:44	50107	HARR_T3	1	1	0	7.1	6.8	-0.3	0	0	0	0	0	0	0	0
9/12/2024 10:44	64204	KINZ_T1	2	4	2	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
9/12/2024 10:44	23201	HIRU_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
9/12/2024 10:44	14204	EALL_T2	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
9/12/2024 10:44	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 10:44	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/12/2024 10:44	23203	HIRU_T2	1	0	-1	0.1	0	-0.1	0.15	0.15	0	0	0	0	0	0
9/12/2024 10:44	64203	KINZ_T1	0	0	0	0	0	0	0.29	0.24	3	3	0	2100	2100	0
9/12/2024 10:45	63602	LETO_T1	2	1	-1	0.3	0.7	0.4	0.03	0.08	0	0	0	0	0	0
9/12/2024 10:45	63601	LETO_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/12/2024 10:45	23401	HONE_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
9/12/2024 10:47	50204	LING_T2	3	3	0	3.5	3.87	0.37	0.55	0.55	0	0	0	0	0	0
9/12/2024 10:47	63601	LETO_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/12/2024 10:47	63602	LETO_T1	2	1	-1	0.3	0.7	0.4	0.03	0.08	0	0	0	0	0	0
9/12/2024 10:47	64305	LINC_T1	0	0	0	0	0	0	0.26	0.22	0	0	0	0	0	0
9/12/2024 10:48	50106	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 10:48	50105	HARR_T3	6	6	0	6.37	6.25	-0.12	0	0	0	0	0	0	0	0
9/12/2024 10:48	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/12/2024 10:48	50107	HARR_T3	1	1	0	6.8	7	0.2	0	0	0	0	0	0	0	0
9/12/2024 10:49	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/12/2024 10:49	66501	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/12/2024 10:49	50106	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 10:49	50107	HARR_T3	1	1	0	6.8	7	0.2	0	0	0	0	0	0	0	0
9/12/2024 10:49	50105	HARR_T3	6	6	0	6.37	6.25	-0.12	0	0	0	0	0	0	0	0
9/12/2024 10:49	66502	SMAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/12/2024 10:49	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 10:50	47403	PENS_T1	1	5	4	0.3	1.1	0.8	0	0	0	0	0	0	0	0
9/12/2024 10:50	47401	PENS_T1	2	26	24	1	0.35	-0.65	0.76	-0.41	0	0	0	0	0	0
9/12/2024 10:50	42201	SHEN_T2	0	1	1	0	0.4	0.4	0.12	0.14	1	1	0	600	600	0
9/12/2024 10:50	47402	PENS_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
9/12/2024 10:51	65503	MOJO_T2	1	2	1	0.1	0.2	0.1	-0.55	-0.49	1	1	0	900	900	0
9/12/2024 10:51	47401	PENS_T1	2	26	24	1	0.35	-0.65	-0.41	-0.34	0	0	0	0	0	0
9/12/2024 10:51	47402	PENS_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
9/12/2024 10:51	47403	PENS_T1	1	5	4	0.3	1.1	0.8	0	0	0	0	0	0	0	0
9/12/2024 10:51	42302	MOWR_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
9/12/2024 10:51	42801	SEU_T1	0	0	0	0	0	0	-0.78	-0.75	1	1	0	1200	1200	0
9/12/2024 10:52	55101	WERT_T1	0	0	0	0	0	0	-1.08	-1.16	3	3	0	2400	2400	0
9/12/2024 10:52	47401	PENS_T1	2	26	24	1	0.35	-0.65	-0.82	-0.68	0	0	0	0	0	0
9/12/2024 10:52	47403	PENS_T1	1	5	4	0.3	1.1	0.8	0	0	0	0	0	0	0	0
9/12/2024 10:52	47402	PENS_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
9/12/2024 10:54	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 10:54	42201	SHEN_T2	0	1	1	0	0.4	0.4	0.14	0.13	1	1	0	600	600	0
9/12/2024 10:55	13905	SEID_T1	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
9/12/2024 10:55	66505	SMAN_T2	0	0	0	0	0	0	0.63	0.49	3	3	0	1700	1700	0
9/12/2024 10:55	66501	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/12/2024 10:55	66502	SMAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/12/2024 10:56	44801	EDAN_T2	120	124	4	0.38	0.47	0.09	-1.52	-1.52	0	0	0	0	0	0
9/12/2024 10:56	67605	WARW_T1	12	11	-1	0.36	0.36	0	-1	-0.98	0	0	0	0	0	0
9/12/2024 10:56	67603	WARW_T1	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/12/2024 10:57	63304	GREE_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/12/2024 10:57	63305	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/12/2024 10:57	61802	EELI_T2	4	1	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
9/12/2024 10:57	61801	EELI_T2	0	0	0	0	0	0	-0.53	-0.52	1	1	0	600	600	0
9/12/2024 10:57	63302	GREE_T1	0	0	0	0	0	0	0.93	0.95	0	0	0	0	0	0
9/12/2024 10:59	40101	HUNT_T2	0	1	1	0	0	0	-0.35	-0.44	0	0	0	0	0	0
9/12/2024 11:00	63306	GREE_T1	0	0	0	0	0	0	-3.83	-3.78	2	2	0	1800	1800	0
9/12/2024 11:00	53601	DALM_T2	1	1	0	0.7	0.8	0.1	-0.48	-0.45	1	1	0	900	900	0
9/12/2024 11:01	63306	GREE_T1	0	0	0	0	0	0	-1.92	-1.89	1	1	0	900	900	0
9/12/2024 11:01	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/12/2024 11:01	50105	HARR_T3	6	6	0	6.27	6.2	-0.07	0	0	0	0	0	0	0	0
9/12/2024 11:01	50107	HARR_T3	1	1	0	7	7.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 11:02	53501	EVIL_T2	3	2	-1	0.7	0.95	0.25	-0.01	-0.01	3	3	0	2100	2100	0
9/12/2024 11:03	11303	EMMA_T1	1	3	2	0.2	0.83	0.63	0	0	0	0	0	0	0	0
9/12/2024 11:03	11301	EMMA_T1	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
9/12/2024 11:03	11302	EMMA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 11:05	66501	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/12/2024 11:05	66502	SMAN_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/12/2024 11:05	66504	SMAN_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
9/12/2024 11:07	13704	SCHN_T2	1	1	0	0.2	0.3	0.1	0.2	0.21	0	0	0	0	0	0
9/12/2024 11:07	66501	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/12/2024 11:07	13701	SCHN_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/12/2024 11:07	58402	MORO_T1	0	0	0	0	0	0	0.04	0.06	2	2	0	1500	1500	0
9/12/2024 11:07	66504	SMAN_T2	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/12/2024 11:07	66502	SMAN_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/12/2024 11:08	55105	WERT_T1	0	0	0	0	0	0	-0.25	-0.16	1	1	0	900	900	0
9/12/2024 11:10	12305	LANA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 11:10	67402	WAKE_T2	0	0	0	0	0	0	0.51	0.51	1	1	0	600	600	0
9/12/2024 11:10	67401	WAKE_T2	1	2	1	0.1	0.8	0.7	0	0	0	0	0	0	0	0
9/12/2024 11:10	12302	LANA_T2	0	0	0	0	0	0	-1.53	-1.52	2	2	0	1500	1500	0
9/12/2024 11:11	67401	WAKE_T2	1	2	1	0.1	0.8	0.7	-0.93	-0.97	0	0	0	0	0	0
9/12/2024 11:11	67503	WEWI_T2	1	1	0	8	8.1	0.1	-0.02	0.01	0	0	0	0	0	0
9/12/2024 11:11	21204	ECAR_T2	1	1	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
9/12/2024 11:11	21206	ECAR_T2	1	1	0	7.5	7.6	0.1	0	0	0	0	0	0	0	0
9/12/2024 11:11	67502	WEWI_T2	2	2	0	0.85	1.05	0.2	0	0	0	0	0	0	0	0
9/12/2024 11:12	67502	WEWI_T2	2	2	0	0.85	1.05	0.2	0	0	0	0	0	0	0	0
9/12/2024 11:12	46004	BERW_T2	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
9/12/2024 11:12	67503	WEWI_T2	1	1	0	8	8.1	0.1	-0.02	0.01	0	0	0	0	0	0
9/12/2024 11:13	44801	EDAN_T2	115	119	4	0.42	0.46	0.04	-1.52	-1.5	0	0	0	0	0	0
9/12/2024 11:13	10801	CHHI_T1	1	8	7	0.2	0.58	0.38	-0.41	-1.01	1	2	1	900	1500	600
9/12/2024 11:13	53501	EVIL_T2	3	2	-1	0.7	0.95	0.25	-0.01	-0.01	3	3	0	2100	2100	0
9/12/2024 11:14	54504	ENOL_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
9/12/2024 11:14	55002	NEWP_T1	11	48	37	0.72	0.39	-0.33	0	0	0	0	0	0	0	0
9/12/2024 11:14	54505	ENOL_T2	1	2	1	0.2	0.45	0.25	-0.64	-0.64	1	1	0	600	600	0
9/12/2024 11:14	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 11:15	61502	EPET_T1	0	0	0	0	0	0	-1.85	-1.84	0	0	0	0	0	0
9/12/2024 11:15	61504	EPET_T2	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
9/12/2024 11:15	61501	EPET_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
9/12/2024 11:15	44502	HAMI_T2	1	1	0	1.6	1.7	0.1	-0.58	-0.57	0	0	0	0	0	0
9/12/2024 11:16	64201	KINZ_T1	0	0	0	0	0	0	-0.22	-0.18	4	4	0	2100	2100	0
9/12/2024 11:16	64204	KINZ_T1	2	1	-1	0.45	1.3	0.85	0	0	0	0	0	0	0	0
9/12/2024 11:16	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 11:18	63501	HEID_TBK1-2	47	47	0	0.84	0.83	-0.01	0.8	1.1	2	2	0	1800	1800	0
9/12/2024 11:19	54504	ENOL_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
9/12/2024 11:19	54505	ENOL_T2	1	2	1	0.4	0.45	0.05	-1.28	-1.28	2	2	0	1200	1200	0
9/12/2024 11:19	65604	QVIL_T2	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
9/12/2024 11:19	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 11:20	57205	ROSS_T1	1	1	0	1	0.8	-0.2	0.44	0.51	0	0	0	0	0	0
9/12/2024 11:21	47401	PENS_T1	26	8	-18	0.34	0.66	0.32	-0.24	-0.22	0	0	0	0	0	0
9/12/2024 11:21	47403	PENS_T1	4	5	1	0.88	0.88	0	0	0	0	0	0	0	0	0
9/12/2024 11:21	47402	PENS_T1	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
9/12/2024 11:22	66502	SMAN_T2	1	1	0	0.4	0.2	-0.2	0.54	0.43	0	0	0	0	0	0
9/12/2024 11:22	66501	SMAN_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
9/12/2024 11:23	47403	PENS_T1	4	5	1	0.88	0.88	0	0	0	0	0	0	0	0	0
9/12/2024 11:23	47402	PENS_T1	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
9/12/2024 11:23	47401	PENS_T1	26	8	-18	0.34	0.66	0.32	-0.24	-0.22	0	0	0	0	0	0
9/12/2024 11:24	64101	REFR_T1	0	5	5	0	0.6	0.6	-0.01	-0.01	0	0	0	0	0	0
9/12/2024 11:24	43301	WATS_T2	2	2	0	0.25	0.25	0	-0.54	-0.53	1	1	0	900	900	0
9/12/2024 11:25	44902	SCOT_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
9/12/2024 11:26	47403	PENS_T1	4	5	1	0.88	0.88	0	0	0	0	0	0	0	0	0
9/12/2024 11:26	47401	PENS_T1	26	8	-18	0.34	0.66	0.32	-0.24	-0.22	0	0	0	0	0	0
9/12/2024 11:26	47402	PENS_T1	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
9/12/2024 11:28	20401	ASHF_T2	2	3	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
9/12/2024 11:28	41602	CLEV_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/12/2024 11:28	20403	ASHF_T2	4	3	-1	0.48	0.17	-0.31	1.49	1.5	0	0	0	0	0	0
9/12/2024 11:29	16101	BING_T2	0	1	1	0	0.7	0.7	0.45	0.49	0	0	0	0	0	0
9/12/2024 11:29	16102	BING_T2	0	6	6	0	0.7	0.7	0	0	0	0	0	0	0	0
9/12/2024 11:30	53902	HALI_T2	3	3	0	2.07	1.77	-0.3	0	0	0	0	0	0	0	0
9/12/2024 11:30	53903	HALI_T2	3	2	-1	0.57	0.75	0.18	0	0	0	0	0	0	0	0
9/12/2024 11:30	53901	HALI_T2	2	2	0	0.6	0.5	-0.1	-1.14	-1.08	0	0	0	0	0	0
9/12/2024 11:31	42902	MIDD_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/12/2024 11:31	67702	WERN_T2	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/12/2024 11:31	67703	WERN_T2	1	1	0	0.3	0.3	0	0.04	0.05	1	1	0	900	900	0
9/12/2024 11:31	53602	DALM_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 11:31	42903	MIDD_T2	0	0	0	0	0	0	0.5	0.71	1	1	0	1200	1200	0
9/12/2024 11:31	53601	DALM_T2	1	1	0	0.8	0.7	-0.1	-0.5	-0.52	1	1	0	900	900	0
9/12/2024 11:32	12701	MACU_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
9/12/2024 11:33	53901	HALI_T2	2	2	0	0.6	0.5	-0.1	-1.14	-1.08	0	0	0	0	0	0
9/12/2024 11:33	53903	HALI_T2	3	2	-1	0.57	0.75	0.18	0	0	0	0	0	0	0	0
9/12/2024 11:33	53902	HALI_T2	3	3	0	2.07	1.77	-0.3	0	0	0	0	0	0	0	0
9/12/2024 11:34	53902	HALI_T2	3	3	0	2.07	1.77	-0.3	0	0	0	0	0	0	0	0
9/12/2024 11:34	53901	HALI_T2	2	2	0	0.6	0.5	-0.1	-3.41	-3.25	0	0	0	0	0	0
9/12/2024 11:34	53903	HALI_T2	3	2	-1	0.57	0.75	0.18	0	0	0	0	0	0	0	0
9/12/2024 11:34	12701	MACU_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
9/12/2024 11:35	53901	HALI_T2	2	2	0	0.6	0.5	-0.1	-1.14	-1.08	0	0	0	0	0	0
9/12/2024 11:35	53903	HALI_T2	3	2	-1	0.57	0.75	0.18	0	0	0	0	0	0	0	0
9/12/2024 11:35	53902	HALI_T2	3	3	0	2.07	1.77	-0.3	0	0	0	0	0	0	0	0
9/12/2024 11:36	64902	MILL_T2	0	0	0	0	0	0	-0.33	-0.3	1	1	0	900	900	0
9/12/2024 11:36	44203	POIN_T2	0	0	0	0	0	0	0.24	0.04	2	2	0	2100	2100	0
9/12/2024 11:37	40602	PIGR_T1	1	1	0	2	2.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 11:37	67703	WERN_T2	1	1	0	0.3	0.3	0	0.05	0.04	1	1	0	900	900	0
9/12/2024 11:37	67702	WERN_T2	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/12/2024 11:37	40601	PIGR_T1	7	0	0	0.33	0.26	-0.07	0	0	0	0	0	0	0	0
9/12/2024 11:39	59102	WALK_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/12/2024 11:39	55101	WERT_T1	0	0	0	0	0	0	-1.8	-3.23	6	6	0	4800	4800	0
9/12/2024 11:39	59101	WALK_T2	1	2	1	0.3	0.4	0.1	1.86	1.75	1	1	0	600	600	0
9/12/2024 11:39	44203	POIN_T2	0	0	0	0	0	0	0.24	0.04	2	2	0	2100	2100	0
9/12/2024 11:39	66703	STRA_T1	0	1	1	0	0.1	0.1	0.3	0.37	0	0	0	0	0	0
9/12/2024 11:39	66701	STRA_T1	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0	0
9/12/2024 11:41	14402	SSLA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/12/2024 11:41	55101	WERT_T1	0	0	0	0	0	0	-1.8	-3.23	6	6	0	4800	4800	0
9/12/2024 11:41	44801	EDAN_T2	83	80	-3	0.5	0.6	0.1	-1.49	-1.4	0	0	0	0	0	0
9/12/2024 11:41	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 11:41	44802	EDAN_T2	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
9/12/2024 11:41	14403	SSLA_T1	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
9/12/2024 11:42	63401	HONY_T1	0	0	0	0	0	0	0.37	0.46	1	1	0	600	600	0
9/12/2024 11:42	67505	WEWI_T1	0	2	2	0	0.35	0.35	0.24	0.19	1	1	0	900	900	0
9/12/2024 11:42	60101	COCA_T1	0	0	0	0	0	0	1.05	1.12	0	0	0	0	0	0
9/12/2024 11:42	59101	WALK_T2	1	2	1	0.3	0.4	0.1	3.73	3.5	2	2	0	1200	1200	0
9/12/2024 11:42	44801	EDAN_T2	83	80	-3	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/12/2024 11:42	62607	ENGL_T1	0	0	0	0	0	0	-0.55	-0.5	0	0	0	0	0	0
9/12/2024 11:42	59102	WALK_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/12/2024 11:42	44802	EDAN_T2	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
9/12/2024 11:42	62605	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 11:42	67501	WEWI_T1	5	19	14	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
9/12/2024 11:42	55101	WERT_T1	0	0	0	0	0	0	-0.9	-1.62	3	3	0	2400	2400	0
9/12/2024 11:43	67502	WEWI_T2	2	15	13	1.05	0.44	-0.61	0	0	0	0	0	0	0	0
9/12/2024 11:43	44801	EDAN_T2	83	80	-3	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/12/2024 11:43	67503	WEWI_T2	1	1	0	8	8.6	0.6	0.1	0.09	0	0	0	0	0	0
9/12/2024 11:43	60101	COCA_T1	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
9/12/2024 11:43	53601	DALM_T2	1	1	0	0.8	0.7	-0.1	-0.52	-0.51	1	1	0	900	900	0
9/12/2024 11:43	53602	DALM_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 11:43	44802	EDAN_T2	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
9/12/2024 11:44	67503	WEWI_T2	1	1	0	8	8.6	0.6	0.1	0.09	0	0	0	0	0	0
9/12/2024 11:44	67502	WEWI_T2	2	15	13	1.05	0.44	-0.61	0	0	0	0	0	0	0	0
9/12/2024 11:44	44801	EDAN_T2	83	80	-3	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/12/2024 11:44	44802	EDAN_T2	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
9/12/2024 11:45	44801	EDAN_T2	77	66	-11	0.53	0.7	0.17	-1.49	-1.4	0	0	0	0	0	0
9/12/2024 11:45	44802	EDAN_T2	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
9/12/2024 11:46	44801	EDAN_T2	77	66	-11	0.53	0.7	0.17	0	0	0	0	0	0	0	0
9/12/2024 11:46	44802	EDAN_T2	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
9/12/2024 11:49	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 11:49	41602	CLEV_T1	1	2	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
9/12/2024 11:50	23901	EFMO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 11:50	23902	EFMO_T2	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
9/12/2024 11:53	57403	SPAN_T1	14	22	8	0.28	0.32	0.04	0	0	0	0	0	0	0	0
9/12/2024 11:53	57401	SPAN_T1	8	11	3	0.7	0.51	-0.19	-0.67	-0.6	1	1	0	600	600	0
9/12/2024 11:54	17002	RIRO_T2	5	4	-1	0.68	0.58	-0.1	0.71	0.77	0	0	0	0	0	0
9/12/2024 11:55	53501	EVIL_T2	2	2	0	0.9	0.4	-0.5	-0.01	-0.01	3	3	0	2100	2100	0
9/12/2024 11:55	16302	ALPA_T2	0	3	3	0	0.23	0.23	-0.25	-0.23	0	0	0	0	0	0
9/12/2024 11:56	64203	KINZ_T1	0	0	0	0	0	0	0	0.13	3	3	0	2100	2100	0
9/12/2024 11:56	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 11:56	64204	KINZ_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
9/12/2024 11:58	53602	DALM_T2	0	2	2	0	8.3	8.3	0	0	0	0	0	0	0	0
9/12/2024 11:58	53601	DALM_T2	1	1	0	0.7	1	0.3	-0.51	-0.44	1	1	0	900	900	0
9/12/2024 11:58	64203	KINZ_T1	0	0	0	0	0	0	0	0.13	3	3	0	2100	2100	0
9/12/2024 11:58	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 11:58	16302	ALPA_T2	0	3	3	0	0.23	0.23	-0.25	-0.23	0	0	0	0	0	0
9/12/2024 11:58	64204	KINZ_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
9/12/2024 11:59	60101	COCA_T1	0	0	0	0	0	0	1.12	1.05	0	0	0	0	0	0
9/12/2024 11:59	16302	ALPA_T2	0	3	3	0	0.23	0.23	-0.5	-0.46	0	0	0	0	0	0
9/12/2024 11:59	45501	DERR_T2	2	2	0	0.45	0.9	0.45	0.65	0.66	2	2	0	1800	1800	0
9/12/2024 11:59	24702	FLND_T2	2	2	0	0.85	1.4	0.55	0	0	1	1	0	1200	1200	0
9/12/2024 12:00	64203	KINZ_T1	0	0	0	0	0	0	0	0.13	3	3	0	2100	2100	0
9/12/2024 12:00	60101	COCA_T1	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
9/12/2024 12:00	64202	KINZ_T1	2	0	-2	4	0	-4	0	0	0	0	0	0	0	0
9/12/2024 12:00	64204	KINZ_T1	1	3	2	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
9/12/2024 12:02	12402	MILF_T1	1	1	0	0.9	1	0.1	0.89	0.87	0	0	0	0	0	0
9/12/2024 12:02	45801	HEGI_T1	0	0	0	0	0	0	0.25	0.09	1	1	0	900	900	0
9/12/2024 12:02	12401	MILF_T1	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/12/2024 12:02	41902	REED_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
9/12/2024 12:02	50105	HARR_T3	6	7	1	6.4	6.23	-0.17	0	0	0	0	0	0	0	0
9/12/2024 12:02	50107	HARR_T3	2	1	-1	5.35	7.6	2.25	0	0	0	0	0	0	0	0
9/12/2024 12:02	12403	MILF_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
9/12/2024 12:02	41903	REED_T1	0	0	0	0	0	0	0.37	0.28	2	2	0	2400	2400	0
9/12/2024 12:02	50201	HARR_T3	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
9/12/2024 12:04	44502	HAMI_T2	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
9/12/2024 12:04	44505	HAMI_T2	0	1	1	0	0.2	0.2	0.8	0.86	0	0	0	0	0	0
9/12/2024 12:05	45802	HEGI_T2	52	44	-8	0.51	0.23	-0.28	2.75	2.89	0	0	0	0	0	0
9/12/2024 12:07	42601	TUSC_T1	0	0	0	0	0	0	0.02	0.05	3	3	0	2400	2400	0
9/12/2024 12:09	65904	SAKR_T2	0	0	0	0	0	0	-1.86	-1.84	3	3	0	1500	1500	0
9/12/2024 12:09	42802	SELI_T1	0	0	0	0	0	0	-1.73	-1.64	2	2	0	1800	1800	0
9/12/2024 12:09	44502	HAMI_T2	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
9/12/2024 12:09	44505	HAMI_T2	0	1	1	0	0.2	0.2	0.86	0.84	0	0	0	0	0	0
9/12/2024 12:09	65901	SAKR_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
9/12/2024 12:10	60101	COCA_T1	0	0	0	0	0	0	0.53	0.58	0	0	0	0	0	0
9/12/2024 12:10	15001	BLMO_T1	4	3	-1	0.6	0.77	0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/12/2024 12:10	42802	SELI_T1	0	0	0	0	0	0	-0.87	-0.82	1	1	0	900	900	0
9/12/2024 12:11	60803	BUCK_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
9/12/2024 12:11	42802	SELI_T1	0	0	0	0	0	0	-1.73	-1.64	2	2	0	1800	1800	0
9/12/2024 12:11	60801	BUCK_T1	0	1	1	0	0.1	0.1	-0.04	-0.06	0	0	0	0	0	0
9/12/2024 12:11	67401	WAKE_T2	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
9/12/2024 12:11	67402	WAKE_T2	0	0	0	0	0	0	0.57	0.59	1	1	0	600	600	0
9/12/2024 12:11	60201	ATGL_T2	0	0	0	0	0	0	0.13	0.22	0	0	0	0	0	0
9/12/2024 12:12	52204	DEVO_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 12:12	40201	BEGA_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/12/2024 12:12	52202	DEVO_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
9/12/2024 12:13	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 12:13	53601	DALM_T2	1	1	0	0.4	1	0.6	-0.44	-0.61	1	1	0	900	900	0
9/12/2024 12:13	41602	CLEV_T1	2	1	-1	0.6	0.6	0	0	0	0	0	0	0	0	0
9/12/2024 12:15	52204	DEVO_T2	2	4	2	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/12/2024 12:15	21501	CEAV_T2	0	0	0	0	0	0	-0.63	-0.47	1	1	0	1200	1200	0
9/12/2024 12:15	52202	DEVO_T2	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
9/12/2024 12:15	67702	WERN_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/12/2024 12:15	67703	WERN_T2	1	1	0	0.3	0.5	0.2	0.14	0.1	1	1	0	900	900	0
9/12/2024 12:15	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 12:16	52204	DEVO_T2	2	4	2	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/12/2024 12:16	52202	DEVO_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
9/12/2024 12:18	42903	MIDD_T2	3	3	0	0.63	0.43	-0.2	-0.02	0.07	2	2	0	2400	2400	0
9/12/2024 12:18	42902	MIDD_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
9/12/2024 12:18	64902	MILL_T2	0	1	1	0	0	0	-0.26	-0.26	1	1	0	900	900	0
9/12/2024 12:19	57002	WHIH_T2	0	0	0	0	0	0	-0.97	-0.99	1	1	0	1200	1200	0
9/12/2024 12:20	58402	MORO_T1	0	0	0	0	0	0	0.05	0.05	2	2	0	1500	1500	0
9/12/2024 12:21	58401	MORO_T1	0	0	0	0	0	0	-0.91	-0.87	1	1	0	900	900	0
9/12/2024 12:23	59101	WALK_T2	1	1	0	0.2	0.2	0	1.84	1.95	1	1	0	600	600	0
9/12/2024 12:23	58401	MORO_T1	0	0	0	0	0	0	-0.87	-0.89	1	1	0	900	900	0
9/12/2024 12:23	42802	SELI_T1	0	0	0	0	0	0	-0.82	-0.7	1	1	0	900	900	0
9/12/2024 12:23	59102	WALK_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/12/2024 12:24	24901	WHHA_T1	0	0	0	0	0	0	0.99	0.99	0	0	0	0	0	0
9/12/2024 12:24	59102	WALK_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/12/2024 12:24	24902	WHHA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/12/2024 12:24	42802	SELI_T1	0	0	0	0	0	0	-0.82	-0.7	1	1	0	900	900	0
9/12/2024 12:24	59101	WALK_T2	1	1	0	0.2	0.2	0	1.84	1.95	1	1	0	600	600	0
9/12/2024 12:27	24902	WHHA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/12/2024 12:27	24901	WHHA_T1	0	0	0	0	0	0	0.99	0.99	0	0	0	0	0	0
9/12/2024 12:27	20403	ASHF_T2	1	4	3	0.2	0.13	-0.07	1.41	1.61	0	0	0	0	0	0
9/12/2024 12:27	20401	ASHF_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
9/12/2024 12:28	60101	COCA_T1	0	1	1	0	0.1	0.1	0.58	0.64	0	0	0	0	0	0
9/12/2024 12:29	53601	DALM_T2	1	1	0	1	1	0	-0.61	-0.56	1	1	0	900	900	0
9/12/2024 12:30	60101	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 12:30	28702	HAML_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
9/12/2024 12:30	28701	HAML_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/12/2024 12:31	60101	COCA_T1	0	1	1	0	0.2	0.2	0.58	0.64	0	0	0	0	0	0
9/12/2024 12:32	55001	NEWP_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/12/2024 12:32	55002	NEWP_T1	10	8	-2	0.69	0.91	0.22	0	0	0	0	0	0	0	0
9/12/2024 12:33	63501	HEID_TBK1-2	47	48	1	1.24	1	-0.24	0.58	0.54	1	1	0	900	900	0
9/12/2024 12:39	59102	WALK_T2	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
9/12/2024 12:39	51304	WIND_T2	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
9/12/2024 12:39	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 12:39	15201	SFAR_T1	0	0	0	0	0	0	0.31	0.41	2	2	0	1800	1800	0
9/12/2024 12:39	59101	WALK_T2	1	1	0	0.2	0.4	0.2	1.95	1.87	1	1	0	600	600	0
9/12/2024 12:39	12202	FOGE_T2	2	2	0	0.7	0.5	-0.2	0	0	1	1	0	600	600	0
9/12/2024 12:43	14702	TREX_T2	0	0	0	0	0	0	1.78	1.8	0	0	0	0	0	0
9/12/2024 12:44	14303	SUMN_T1	4	4	0	5.43	5.38	-0.05	0	0	0	0	0	0	0	0
9/12/2024 12:44	14308	SUMN_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
9/12/2024 12:45	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 12:45	62604	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 12:45	62607	ENGL_T1	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
9/12/2024 12:45	53601	DALM_T2	1	1	0	1	1	0	-0.56	-0.55	1	1	0	900	900	0
9/12/2024 12:47	12601	MACA_T1	2	2	0	1.05	0.95	-0.1	0	0	0	0	0	0	0	0
9/12/2024 12:47	61501	EPET_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
9/12/2024 12:47	61506	EPET_T2	0	0	0	0	0	0	-1.19	-1.24	2	2	0	1800	1800	0
9/12/2024 12:47	12604	MACA_T1	3	2	-1	0.2	0.35	0.15	0.5	0.51	0	0	0	0	0	0
9/12/2024 12:51	56504	ROCK_T2	0	0	0	0	0	0	0.08	-0.03	0	0	0	0	0	0
9/12/2024 12:51	59402	RFLD_T2	0	0	0	0	0	0	-0.48	-0.7	1	1	0	450	450	0
9/12/2024 12:51	56501	ROCK_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
9/12/2024 12:51	64101	REFR_T1	1	1	0	0.6	1.2	0.6	-0.01	-0.01	0	0	0	0	0	0
9/12/2024 12:52	56501	ROCK_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
9/12/2024 12:52	56504	ROCK_T2	0	0	0	0	0	0	-0.03	0.01	0	0	0	0	0	0
9/12/2024 12:52	59402	RFLD_T2	0	0	0	0	0	0	-0.7	-0.71	1	1	0	450	450	0
9/12/2024 12:53	56504	ROCK_T2	0	0	0	0	0	0	-0.03	0.01	0	0	0	0	0	0
9/12/2024 12:53	56501	ROCK_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
9/12/2024 12:54	56501	ROCK_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
9/12/2024 12:54	57401	SPAN_T1	4	4	0	0.8	0.75	-0.05	-0.61	-0.47	1	1	0	600	600	0
9/12/2024 12:54	56504	ROCK_T2	0	0	0	0	0	0	-0.03	0.01	0	0	0	0	0	0
9/12/2024 12:54	57403	SPAN_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/12/2024 12:55	24901	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 12:55	56501	ROCK_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
9/12/2024 12:55	24902	WHHA_T1	1	2	1	1	0.6	-0.4	0.82	0.79	0	0	0	0	0	0
9/12/2024 12:55	56504	ROCK_T2	0	0	0	0	0	0	-0.03	0.01	0	0	0	0	0	0
9/12/2024 12:56	57403	SPAN_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/12/2024 12:56	57401	SPAN_T1	4	4	0	0.8	0.75	-0.05	-0.61	-0.47	1	1	0	600	600	0
9/12/2024 12:57	57403	SPAN_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/12/2024 12:57	57401	SPAN_T1	4	4	0	0.8	0.75	-0.05	-1.22	-0.93	2	2	0	1200	1200	0
9/12/2024 12:58	40201	BEGA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/12/2024 12:59	55002	NEWP_T1	8	7	-1	0.91	0.95	0.04	0	0	0	0	0	0	0	0
9/12/2024 12:59	42902	MIDD_T2	0	0	0	0	0	0	-0.25	-0.11	1	1	0	600	600	0
9/12/2024 12:59	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/12/2024 13:00	59301	MCAL_T1	3	4	1	0.3	0.43	0.13	-1.54	-1.51	1	1	0	600	600	0
9/12/2024 13:01	62607	ENGL_T1	0	1	1	0	0	0	-0.44	-0.45	0	0	0	0	0	0
9/12/2024 13:01	62604	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 13:01	40201	BEGA_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/12/2024 13:03	53903	HALI_T2	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
9/12/2024 13:03	53901	HALI_T2	1	1	0	0.1	0.2	0.1	-1	-1	0	0	0	0	0	0
9/12/2024 13:03	53902	HALI_T2	2	3	1	2.05	1.5	-0.55	0	0	0	0	0	0	0	0
9/12/2024 13:06	24102	EHAZ_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
9/12/2024 13:06	24105	EHAZ_T1	4	4	0	6.45	6.58	0.13	0	0	0	0	0	0	0	0
9/12/2024 13:06	24101	EHAZ_T1	11	1	-10	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
9/12/2024 13:06	24104	EHAZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/12/2024 13:07	15703	TANN_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
9/12/2024 13:07	15702	TANN_T2	2	1	-1	0.35	0.6	0.25	-0.19	-0.12	0	0	0	0	0	0
9/12/2024 13:08	56504	ROCK_T2	0	0	0	0	0	0	0.03	0.06	0	0	0	0	0	0
9/12/2024 13:08	56501	ROCK_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
9/12/2024 13:09	44301	BEAV_T2	0	1	1	0	0	0	1.27	1.45	1	1	0	600	600	0
9/12/2024 13:09	57403	SPAN_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/12/2024 13:09	57401	SPAN_T1	4	4	0	0.75	0.6	-0.15	-0.47	-0.5	1	1	0	600	600	0
9/12/2024 13:10	44301	BEAV_T2	0	1	1	0	0	0	1.27	1.45	1	1	0	600	600	0
9/12/2024 13:10	56501	ROCK_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
9/12/2024 13:10	56504	ROCK_T2	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
9/12/2024 13:10	53601	DALM_T2	1	1	0	1	0.8	-0.2	-0.6	-0.38	1	1	0	900	900	0
9/12/2024 13:10	55101	WERT_T1	0	0	0	0	0	0	-1.31	-2.35	3	4	1	2400	3300	900
9/12/2024 13:14	20403	ASHF_T2	1	9	8	0.2	0.42	0.22	0	0	0	0	0	0	0	0
9/12/2024 13:14	55002	NEWP_T1	6	6	0	0.82	0.82	0	0	0	0	0	0	0	0	0
9/12/2024 13:14	20401	ASHF_T2	1	3	2	0.4	0.3	-0.1	0.1	0.17	0	0	0	0	0	0
9/12/2024 13:14	20402	ASHF_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
9/12/2024 13:15	45801	HEGI_T1	0	0	0	0	0	0	0.25	0.28	1	1	0	900	900	0
9/12/2024 13:16	11202	ELHE_T2	0	0	0	0	0	0	0.2	0.2	1	1	0	1200	1200	0
9/12/2024 13:17	57002	WHIH_T2	0	0	0	0	0	0	-0.9	-0.93	1	1	0	1200	1200	0
9/12/2024 13:18	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 13:18	13002	NBET_T2	0	1	1	0	0.3	0.3	-1.21	-1.1	2	2	0	2400	2400	0
9/12/2024 13:18	40901	JESH_T1	1	0	-1	1	1.3	0.3	0	0	0	0	0	0	0	0
9/12/2024 13:18	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 13:20	45602	WOOL_T1	2	1	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
9/12/2024 13:20	45801	HEGI_T1	0	0	0	0	0	0	0.25	0.28	1	1	0	900	900	0
9/12/2024 13:20	45601	WOOL_T1	0	0	0	0	0	0	0.04	0.04	1	1	0	1200	1200	0
9/12/2024 13:21	42903	MIDD_T2	0	0	0	0	0	0	0.87	0.78	1	1	0	1200	1200	0
9/12/2024 13:23	56501	ROCK_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
9/12/2024 13:23	56504	ROCK_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
9/12/2024 13:26	46203	DANV_T2	1	1	0	6.4	6.1	-0.3	0	0	0	0	0	0	0	0
9/12/2024 13:26	46206	DANV_T2	1	1	0	2.2	2.6	0.4	1.59	1.6	2	2	0	2100	2100	0
9/12/2024 13:30	26401	INOR_T1	2	2	0	3.8	3.85	0.05	0	0	0	0	0	0	0	0
9/12/2024 13:30	26402	INOR_T1	1	2	1	0.1	0.3	0.2	-1.64	-1.66	1	1	0	600	600	0
9/12/2024 13:30	55002	NEWP_T1	6	5	-1	0.63	1	0.37	0	0	0	0	0	0	0	0
9/12/2024 13:31	46203	DANV_T2	1	1	0	5.7	6.1	0.4	0	0	0	0	0	0	0	0
9/12/2024 13:31	46206	DANV_T2	0	1	1	0	2.3	2.3	1.59	1.6	2	2	0	2100	2100	0
9/12/2024 13:32	40101	HUNT_T2	1	1	0	0.9	0.3	-0.6	-0.28	-0.33	0	0	0	0	0	0
9/12/2024 13:34	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 13:34	40601	PIGR_T1	1	4	3	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/12/2024 13:34	20601	GRWO_T2	0	0	0	0	0	0	0.22	0.22	1	1	0	1200	1200	0
9/12/2024 13:34	40901	JESH_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
9/12/2024 13:34	40602	PIGR_T1	1	1	0	1.9	0.6	-1.3	-0.16	-1.4	1	1	0	600	600	0
9/12/2024 13:36	53501	EVIL_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
9/12/2024 13:36	53502	EVIL_T2	0	0	0	0	0	0	-0.59	-0.32	6	6	0	4200	4200	0
9/12/2024 13:37	45602	WOOL_T1	1	0	-1	0.3	0	-0.3	0.9	0.91	0	0	0	0	0	0
9/12/2024 13:41	14401	SSLA_T1	3	2	-1	0.23	0.25	0.02	-0.24	-0.22	0	0	0	0	0	0
9/12/2024 13:41	14402	SSLA_T1	4	3	-1	0.58	0.7	0.12	0	0	0	0	0	0	0	0
9/12/2024 13:41	14404	SSLA_T1	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
9/12/2024 13:41	14403	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/12/2024 13:45	20401	ASHF_T2	3	3	0	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
9/12/2024 13:45	16004	DORN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/12/2024 13:45	20403	ASHF_T2	3	4	1	0.5	0.3	-0.2	1.19	1.37	0	0	0	0	0	0
9/12/2024 13:45	51603	DUKE_T1	1	0	-1	8.7	0	-8.7	-0.03	-0.01	0	0	0	0	0	0
9/12/2024 13:45	20402	ASHF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/12/2024 13:45	16005	DORN_T1	1	2	1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
9/12/2024 13:46	53902	HALI_T2	1	1	0	4.4	3.9	-0.5	0	0	0	0	0	0	0	0
9/12/2024 13:46	53903	HALI_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/12/2024 13:46	53901	HALI_T2	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
9/12/2024 13:47	53902	HALI_T2	1	1	0	4.4	3.9	-0.5	0	0	0	0	0	0	0	0
9/12/2024 13:47	64201	KINZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 13:47	53901	HALI_T2	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/12/2024 13:47	64204	KINZ_T1	2	3	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/12/2024 13:47	53903	HALI_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/12/2024 13:47	64203	KINZ_T1	2	4	2	1	1.5	0.5	0.39	0.55	3	3	0	2100	2100	0
9/12/2024 13:49	53901	HALI_T2	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
9/12/2024 13:49	53902	HALI_T2	1	1	0	4.4	3.9	-0.5	0	0	0	0	0	0	0	0
9/12/2024 13:49	53903	HALI_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/12/2024 13:50	46203	DANV_T2	1	3	2	6.1	2.5	-3.6	0	0	0	0	0	0	0	0
9/12/2024 13:50	53902	HALI_T2	1	1	0	4.4	3.9	-0.5	0	0	0	0	0	0	0	0
9/12/2024 13:50	53903	HALI_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/12/2024 13:50	46206	DANV_T2	1	1	0	2.6	2.3	-0.3	1.6	1.77	2	2	0	2100	2100	0
9/12/2024 13:50	53901	HALI_T2	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
9/12/2024 13:52	45801	HEGI_T1	0	0	0	0	0	0	0.09	0.32	1	1	0	900	900	0
9/12/2024 13:53	66902	SHIL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/12/2024 13:53	66501	SMAN_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
9/12/2024 13:53	66903	SHIL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/12/2024 13:53	66504	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/12/2024 13:53	66901	SHIL_T2	0	0	0	0	0	0	-1.09	-1.12	1	1	0	1200	1200	0
9/12/2024 13:53	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 13:53	66505	SMAN_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/12/2024 13:56	67505	WEWI_T1	0	0	0	0	0	0	0.33	0.32	1	1	0	900	900	0
9/12/2024 13:57	41204	KENM_T2	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
9/12/2024 13:58	44202	POIN_T2	0	0	0	0	0	0	-0.37	-0.38	1	1	0	1200	1200	0
9/12/2024 14:00	20201	JERM_T1	0	0	0	0	0	0	-0.36	-0.36	2	2	0	2400	2400	0
9/12/2024 14:00	63501	HEID_TBK1-2	47	47	0	1.15	1.26	0.11	0.6	0.62	1	1	0	900	900	0
9/12/2024 14:02	53501	EVIL_T2	1	3	2	0.2	0.45	0.25	-0.01	-0.01	3	3	0	2100	2100	0
9/12/2024 14:03	60101	COCA_T1	0	0	0	0	0	0	0.75	0.81	0	0	0	0	0	0
9/12/2024 14:04	53501	EVIL_T2	1	3	2	0.2	0.45	0.25	-0.01	-0.01	3	3	0	2100	2100	0
9/12/2024 14:05	52004	LING_T2	2	2	0	5.1	5.25	0.15	0.58	0.6	0	0	0	0	0	0
9/12/2024 14:06	58202	NEWV_T1	1	0	-1	0.2	0	-0.2	1.07	0.39	0	0	0	0	0	0
9/12/2024 14:11	14801	TREI_T2	1	1	0	1.3	1	-0.3	0.74	0.79	0	0	0	0	0	0
9/12/2024 14:11	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 14:11	43304	WATS_T2	0	0	0	0	0	0	-1.05	-0.89	0	0	0	0	0	0
9/12/2024 14:11	43301	WATS_T2	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
9/12/2024 14:11	14203	EALL_T1	0	0	0	0	0	0	0.3	0.33	1	1	0	1200	1200	0
9/12/2024 14:13	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 14:13	43301	WATS_T2	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
9/12/2024 14:13	43304	WATS_T2	0	0	0	0	0	0	-0.53	-0.45	0	0	0	0	0	0
9/12/2024 14:14	43301	WATS_T2	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
9/12/2024 14:14	46203	DANV_T2	1	3	2	5.9	2.97	-2.93	-0.44	-1.65	0	0	0	0	0	0
9/12/2024 14:14	43304	WATS_T2	0	0	0	0	0	0	-0.53	-0.45	0	0	0	0	0	0
9/12/2024 14:14	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 14:14	46206	DANV_T2	1	1	0	2.3	1.8	-0.5	0	0	0	0	0	0	0	0
9/12/2024 14:15	46206	DANV_T2	1	1	0	2.4	1.2	-1.2	0	0	0	0	0	0	0	0
9/12/2024 14:15	46203	DANV_T2	3	1	-2	2.5	8.1	5.6	-0.44	-1.65	0	0	0	0	0	0
9/12/2024 14:18	25402	LAHA_T2	6	9	3	0.22	0.19	-0.03	-0.78	-0.78	0	0	0	0	0	0
9/12/2024 14:18	20603	GRWO_T2	0	0	0	0	0	0	-0.48	-0.43	1	1	0	900	900	0
9/12/2024 14:19	46206	DANV_T2	1	1	0	2.4	1.2	-1.2	0	0	0	0	0	0	0	0
9/12/2024 14:19	46203	DANV_T2	3	1	-2	2.5	8.1	5.6	-0.44	-1.65	0	0	0	0	0	0
9/12/2024 14:21	46206	DANV_T2	1	1	0	2.4	1.2	-1.2	1.54	1.25	2	2	0	2100	2100	0
9/12/2024 14:21	46203	DANV_T2	3	1	-2	2.5	8.1	5.6	0	0	0	0	0	0	0	0
9/12/2024 14:25	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/12/2024 14:25	50701	SMEC_T1	2	2	0	0.45	0.2	-0.25	-1.09	-0.98	1	1	0	900	900	0
9/12/2024 14:25	66501	SMAN_T2	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
9/12/2024 14:25	66505	SMAN_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/12/2024 14:25	66502	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/12/2024 14:26	50701	SMEC_T1	2	2	0	0.45	0.2	-0.25	-1.09	-0.98	1	1	0	900	900	0
9/12/2024 14:26	44301	BEAV_T2	0	2	2	0	0.45	0.45	0.53	0.61	1	1	0	600	600	0
9/12/2024 14:27	44301	BEAV_T2	0	2	2	0	0.45	0.45	0.53	0.61	1	1	0	600	600	0
9/12/2024 14:28	44301	BEAV_T2	0	2	2	0	0.45	0.45	0.53	0.61	1	1	0	600	600	0
9/12/2024 14:28	41501	FAIR_T2	0	0	0	0	0	0	-0.8	-0.79	1	1	0	600	600	0
9/12/2024 14:31	11102	EGYP_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
9/12/2024 14:31	44301	BEAV_T2	1	9	8	0.4	0.32	-0.08	0.53	0.61	1	1	0	600	600	0
9/12/2024 14:31	11104	EGYP_T1	1	0	-1	0.8	0	-0.8	0.91	0.99	0	0	0	0	0	0
9/12/2024 14:33	11104	EGYP_T1	1	0	-1	0.8	0	-0.8	0.91	0.99	0	0	0	0	0	0
9/12/2024 14:33	11102	EGYP_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
9/12/2024 14:34	65501	MOJO_T1	0	0	0	0	0	0	-0.7	-0.72	1	1	0	900	900	0
9/12/2024 14:35	66505	SMAN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/12/2024 14:35	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 14:35	66501	SMAN_T2	2	2	0	0.15	0.4	0.25	0	0	0	0	0	0	0	0
9/12/2024 14:36	11102	EGYP_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
9/12/2024 14:36	11104	EGYP_T1	1	0	-1	0.8	0	-0.8	0.99	0.94	0	0	0	0	0	0
9/12/2024 14:38	15601	NSTR_T2	2	3	1	0.1	0.33	0.23	0	0	0	0	0	0	0	0
9/12/2024 14:38	15603	NSTR_T2	0	0	0	0	0	0	-0.26	-0.23	0	0	0	0	0	0
9/12/2024 14:38	57401	SPAN_T1	0	0	0	0	0	0	-0.25	-0.17	1	1	0	600	600	0
9/12/2024 14:41	44301	BEAV_T2	1	9	8	0.4	0.32	-0.08	0.61	0.31	1	1	0	600	600	0
9/12/2024 14:42	44301	BEAV_T2	1	9	8	0.4	0.32	-0.08	0	0	0	0	0	0	0	0
9/12/2024 14:43	44301	BEAV_T2	1	9	8	0.4	0.32	-0.08	0	0	0	0	0	0	0	0
9/12/2024 14:43	21705	SUBU_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
9/12/2024 14:43	21704	SUBU_T1	0	0	0	0	0	0	-1.97	-1.94	2	2	0	2400	2400	0
9/12/2024 14:43	21701	SUBU_T1	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
9/12/2024 14:44	44301	BEAV_T2	1	9	8	0.4	0.32	-0.08	0.61	0.31	1	1	0	600	600	0
9/12/2024 14:47	47901	HRDG_T1	0	0	0	0	0	0	2.98	2.42	2	2	0	2400	2400	0
9/12/2024 14:53	65802	RTWN_T2	1	1	0	0.7	0.2	-0.5	0.21	0.28	0	0	0	0	0	0
9/12/2024 14:54	27604	PIRI_T1	0	0	0	0	0	0	-0.43	-0.34	0	0	0	0	0	0
9/12/2024 14:54	65701	RVIL_T1	0	0	0	0	0	0	-1.22	-1.2	0	0	0	0	0	0
9/12/2024 14:56	64801	MONE_T2	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
9/12/2024 14:56	65701	RVIL_T1	0	0	0	0	0	0	-1.22	-1.2	0	0	0	0	0	0
9/12/2024 14:56	16201	POFA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 14:56	16203	POFA_T2	7	8	1	0.3	0.34	0.04	0	0	0	0	0	0	0	0
9/12/2024 14:56	66504	SMAN_T2	0	0	0	0	0	0	-0.93	-0.7	1	1	0	1200	1200	0
9/12/2024 14:56	66501	SMAN_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/12/2024 14:56	64802	MONE_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/12/2024 14:56	46302	ROHR_T1	2	3	1	0.2	0.57	0.37	0.2	0.22	0	0	0	0	0	0
9/12/2024 14:56	46301	ROHR_T1	1	1	0	3.5	4	0.5	0	0	0	0	0	0	0	0
9/12/2024 14:57	57702	PAXT_T1	0	0	0	0	0	0	0.29	0.24	0	0	0	0	0	0
9/12/2024 14:57	65701	RVIL_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
9/12/2024 14:57	46301	ROHR_T1	1	1	0	3.5	4	0.5	0	0	0	0	0	0	0	0
9/12/2024 14:57	46302	ROHR_T1	2	3	1	0.2	0.57	0.37	0.2	0.22	0	0	0	0	0	0
9/12/2024 14:58	42201	SHEN_T2	1	3	2	0.9	0.77	-0.13	0.23	0.33	1	1	0	600	600	0
9/12/2024 14:58	16203	POFA_T2	7	8	1	0.3	0.34	0.04	0	0	0	0	0	0	0	0
9/12/2024 14:58	13704	SCHN_T2	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
9/12/2024 14:58	14602	SWHI_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
9/12/2024 14:58	14601	SWHI_T1	0	0	0	0	0	0	-0.49	-1.1	0	0	0	0	0	0
9/12/2024 14:58	16201	POFA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 14:59	16201	POFA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 14:59	46301	ROHR_T1	1	1	0	3.5	4	0.5	0.28	0.24	0	0	0	0	0	0
9/12/2024 14:59	16203	POFA_T2	7	8	1	0.3	0.34	0.04	0	0	0	0	0	0	0	0
9/12/2024 14:59	13503	MCMI_T2	1	1	0	1	0.8	-0.2	0.07	0.1	0	0	0	0	0	0
9/12/2024 14:59	46302	ROHR_T1	2	3	1	0.2	0.57	0.37	0	0	0	0	0	0	0	0
9/12/2024 15:00	67603	WARW_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/12/2024 15:00	14601	SWHI_T1	0	0	0	0	0	0	-0.49	-1.1	0	0	0	0	0	0
9/12/2024 15:00	67605	WARW_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
9/12/2024 15:00	14605	SWHI_T1	0	0	0	0	0	0	1.74	1.75	1	1	0	1200	1200	0
9/12/2024 15:00	11601	CEAL_T1	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
9/12/2024 15:00	13704	SCHN_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
9/12/2024 15:00	48301	ORWI_T1	2	2	0	3.85	3.8	-0.05	-0.02	-0.07	1	1	0	900	900	0
9/12/2024 15:00	14604	SWHI_T1	0	0	0	0	0	0	-0.14	0.14	2	2	0	1500	1500	0
9/12/2024 15:01	44302	BEAV_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
9/12/2024 15:01	46501	LOHA_T1	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
9/12/2024 15:01	56501	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/12/2024 15:01	11602	CEAL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 15:01	46506	LOHA_T1	4	4	0	3.18	3.05	-0.13	0	0	0	0	0	0	0	0
9/12/2024 15:01	14601	SWHI_T1	0	0	0	0	0	0	-1.47	-3.3	0	0	0	0	0	0
9/12/2024 15:01	61102	BERK_T5	0	0	0	0	0	0	0.6	0.69	3	3	0	900	900	0
9/12/2024 15:01	14402	SSLA_T1	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
9/12/2024 15:01	14401	SSLA_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/12/2024 15:01	44301	BEAV_T2	9	10	1	0.31	0.22	-0.09	0	0	0	0	0	0	0	0
9/12/2024 15:01	56504	ROCK_T2	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
9/12/2024 15:01	14403	SSLA_T1	0	0	0	0	0	0	1.18	1.21	0	0	0	0	0	0
9/12/2024 15:01	46503	LOHA_T1	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
9/12/2024 15:02	14402	SSLA_T1	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
9/12/2024 15:02	14603	SWHI_T1	0	0	0	0	0	0	-2.42	-2.36	4	4	0	2400	2400	0
9/12/2024 15:02	43108	SMIL_T2	0	0	0	0	0	0	-0.95	-0.95	1	1	0	1200	1200	0
9/12/2024 15:02	48301	ORWI_T1	2	2	0	3.85	3.8	-0.05	-0.02	-0.07	1	1	0	900	900	0
9/12/2024 15:02	48302	ORWI_T2	1	1	0	0.2	0.1	-0.1	0.34	0.33	0	0	0	0	0	0
9/12/2024 15:02	14403	SSLA_T1	0	0	0	0	0	0	1.18	1.21	0	0	0	0	0	0
9/12/2024 15:02	20502	HGTN_T1	3	3	0	6.57	6.63	0.06	0	0	0	0	0	0	0	0
9/12/2024 15:02	14401	SSLA_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/12/2024 15:02	43103	SMIL_T2	3	2	-1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
9/12/2024 15:02	20501	HGTN_T1	0	0	0	0	0	0	0.85	0.92	2	2	0	1200	1200	0
9/12/2024 15:02	61102	BERK_T5	0	0	0	0	0	0	0.4	0.46	2	2	0	600	600	0
9/12/2024 15:02	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/12/2024 15:02	14601	SWHI_T1	0	0	0	0	0	0	-0.49	-1.1	0	0	0	0	0	0
9/12/2024 15:02	61103	BERK_T5	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
9/12/2024 15:03	41205	KENM_T2	0	0	0	0	0	0	-0.6	-0.61	1	1	0	600	600	0
9/12/2024 15:03	14603	SWHI_T1	0	0	0	0	0	0	-1.21	-1.18	2	2	0	1200	1200	0
9/12/2024 15:03	48301	ORWI_T1	2	2	0	3.85	3.8	-0.05	-0.02	-0.07	1	1	0	900	900	0
9/12/2024 15:03	61103	BERK_T5	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
9/12/2024 15:03	14601	SWHI_T1	0	0	0	0	0	0	-0.49	-1.1	0	0	0	0	0	0
9/12/2024 15:03	61102	BERK_T5	0	0	0	0	0	0	0.8	0.91	4	4	0	1200	1200	0
9/12/2024 15:03	42701	AUGU_T1	1	0	-1	0.1	0	-0.1	0	0	2	2	0	1800	1800	0
9/12/2024 15:03	44301	BEAV_T2	9	10	1	0.31	0.22	-0.09	0	0	0	0	0	0	0	0
9/12/2024 15:03	44302	BEAV_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
9/12/2024 15:03	48302	ORWI_T2	1	1	0	0.2	0.1	-0.1	0.68	0.67	0	0	0	0	0	0
9/12/2024 15:04	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/12/2024 15:04	48302	ORWI_T2	1	1	0	0.2	0.1	-0.1	0.68	0.67	0	0	0	0	0	0
9/12/2024 15:04	45902	AUBU_T1	1	1	0	0.8	0.8	0	-0.63	-0.59	1	1	0	600	600	0
9/12/2024 15:04	61103	BERK_T5	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
9/12/2024 15:04	21504	CEAV_T1	0	0	0	0	0	0	-0.39	-0.38	1	1	0	1200	1200	0
9/12/2024 15:04	61102	BERK_T5	0	0	0	0	0	0	0.4	0.46	2	2	0	600	600	0
9/12/2024 15:04	64602	LEOL_T1	0	0	0	0	0	0	0.34	0.39	0	0	0	0	0	0
9/12/2024 15:04	48301	ORWI_T1	2	2	0	3.85	3.8	-0.05	-0.02	-0.07	1	1	0	900	900	0
9/12/2024 15:05	44301	BEAV_T2	9	10	1	0.31	0.22	-0.09	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/12/2024 15:05	61102	BERK_T5	0	0	0	0	0	0	0.4	0.46	2	2	0	600	600	0
9/12/2024 15:05	46004	BERW_T2	1	1	0	1.5	0.6	-0.9	0.28	0.27	0	0	0	0	0	0
9/12/2024 15:05	60801	BUCK_T1	0	0	0	0	0	0	-0.4	-0.39	1	1	0	600	600	0
9/12/2024 15:05	44302	BEAV_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
9/12/2024 15:05	61103	BERK_T5	0	0	0	0	0	0	0.78	0.81	0	0	0	0	0	0
9/12/2024 15:06	61103	BERK_T5	0	0	0	0	0	0	0.81	0.88	0	0	0	0	0	0
9/12/2024 15:06	44301	BEAV_T2	9	10	1	0.31	0.22	-0.09	0	0	0	0	0	0	0	0
9/12/2024 15:06	44302	BEAV_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
9/12/2024 15:06	10801	CHHI_T1	3	4	1	0.5	0.4	-0.1	-0.79	-0.78	2	2	0	1500	1500	0
9/12/2024 15:07	62102	ELAN_T1	0	0	0	0	0	0	1.26	1.2	0	0	0	0	0	0
9/12/2024 15:07	51904	COPA_T1	5	5	0	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
9/12/2024 15:07	44301	BEAV_T2	9	10	1	0.31	0.22	-0.09	0	0	0	0	0	0	0	0
9/12/2024 15:07	46002	BERW_T2	0	0	0	0	0	0	-1.17	-1.22	2	2	0	1800	1800	0
9/12/2024 15:07	44302	BEAV_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
9/12/2024 15:07	61102	BERK_T5	0	0	0	0	0	0	0.91	1.63	4	4	0	1200	1200	0
9/12/2024 15:07	13502	MCMI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/12/2024 15:07	46004	BERW_T2	1	1	0	1.5	0.6	-0.9	0	0	0	0	0	0	0	0
9/12/2024 15:07	13501	MCMI_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
9/12/2024 15:07	40802	EXCH_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
9/12/2024 15:07	10805	CHHI_T2	1	1	0	8	8	0	-1.16	-1.52	2	2	0	1800	1800	0
9/12/2024 15:07	51903	COPA_T1	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
9/12/2024 15:08	46002	BERW_T2	0	0	0	0	0	0	-0.59	-0.61	1	1	0	900	900	0
9/12/2024 15:08	46004	BERW_T2	1	0	-1	1.5	0.6	-0.9	0	0	0	0	0	0	0	0
9/12/2024 15:08	41304	FISH_T2	1	1	0	0	0	0	-1.05	-0.99	0	0	0	0	0	0
9/12/2024 15:08	61102	BERK_T5	0	0	0	0	0	0	0.69	1.22	3	3	0	900	900	0
9/12/2024 15:09	61303	EARL_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
9/12/2024 15:09	20403	ASHF_T2	1	0	-1	0.4	0	-0.4	1.76	1.9	0	0	0	0	0	0
9/12/2024 15:09	44201	POIN_T1	0	0	0	0	0	0	-1.06	-1.05	2	2	0	2100	2100	0
9/12/2024 15:09	51906	COPA_T1	0	0	0	0	0	0	-0.49	-0.48	2	2	0	1500	1500	0
9/12/2024 15:09	51904	COPA_T1	5	5	0	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
9/12/2024 15:09	53601	DALM_T2	1	1	0	1.1	1	-0.1	-0.86	-0.33	1	1	0	900	900	0
9/12/2024 15:09	46501	LOHA_T1	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
9/12/2024 15:09	41304	FISH_T2	1	1	0	0	0	0	-1.05	-0.99	0	0	0	0	0	0
9/12/2024 15:09	11401	FARM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 15:09	61301	EARL_T1	0	0	0	0	0	0	-0.91	-0.92	2	2	0	1800	1800	0
9/12/2024 15:09	10805	CHHI_T2	1	1	0	8	8	0	-1.16	-1.52	2	2	0	1800	1800	0
9/12/2024 15:09	20401	ASHF_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
9/12/2024 15:09	11405	FARM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 15:09	46506	LOHA_T1	4	4	0	3.18	3.05	-0.13	0.07	0.13	0	0	0	0	0	0
9/12/2024 15:09	62105	ELAN_T1	0	0	0	0	0	0	0.81	0.83	0	0	0	0	0	0
9/12/2024 15:10	13503	MCMI_T2	1	1	0	0.8	0.5	-0.3	0.3	0.17	0	0	0	0	0	0
9/12/2024 15:10	51902	COPA_T1	0	0	0	0	0	0	-1.19	-1.23	1	1	0	1200	1200	0
9/12/2024 15:10	51904	COPA_T1	5	5	0	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
9/12/2024 15:10	53601	DALM_T2	1	1	0	1.1	1	-0.1	-0.86	-0.33	1	1	0	900	900	0
9/12/2024 15:11	46501	LOHA_T1	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
9/12/2024 15:11	62102	ELAN_T1	0	0	0	0	0	0	1.26	1.2	0	0	0	0	0	0
9/12/2024 15:11	46506	LOHA_T1	4	4	0	3.18	3.05	-0.13	0.2	0.38	0	0	0	0	0	0
9/12/2024 15:11	44201	POIN_T1	0	0	0	0	0	0	-2.12	-2.09	4	4	0	4200	4200	0
9/12/2024 15:12	44201	POIN_T1	0	0	0	0	0	0	-1.06	-1.05	2	2	0	2100	2100	0
9/12/2024 15:12	61102	BERK_T5	0	0	0	0	0	0	0.23	0.41	1	1	0	300	300	0
9/12/2024 15:13	44201	POIN_T1	0	0	0	0	0	0	-1.06	-1.05	2	2	0	2100	2100	0
9/12/2024 15:35	44301	BEAV_T2	6	1	-5	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
9/12/2024 15:36	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 15:37	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	-0.45	-0.45	0	0	0	0	0	0
9/12/2024 15:38	47101	MARL_T1	0	0	0	0	0	0	0.03	0.11	0	0	0	0	0	0
9/12/2024 15:38	40602	PIGR_T1	1	1	0	0.9	1	0.1	-1.3	-1.28	1	1	0	600	600	0
9/12/2024 15:40	47401	PENS_T1	2	3	1	0.7	0.97	0.27	-0.14	-0.11	0	0	0	0	0	0
9/12/2024 15:40	47403	PENS_T1	2	1	-1	1	2	1	0	0	0	0	0	0	0	0
9/12/2024 15:41	47104	MARL_T1	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
9/12/2024 15:41	47101	MARL_T1	0	0	0	0	0	0	0.08	0.34	0	0	0	0	0	0
9/12/2024 15:42	55002	NEWP_T1	5	3	-2	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/12/2024 15:43	66504	SMAN_T2	0	0	0	0	0	0	-0.88	-0.84	1	1	0	1200	1200	0
9/12/2024 15:43	56501	ROCK_T2	1	0	-1	0.3	0	-0.3	-0.88	-0.92	0	0	0	0	0	0
9/12/2024 15:43	47401	PENS_T1	2	3	1	0.7	0.97	0.27	-0.27	-0.22	0	0	0	0	0	0
9/12/2024 15:43	66501	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/12/2024 15:43	47403	PENS_T1	2	1	-1	1	2	1	0	0	0	0	0	0	0	0
9/12/2024 15:44	47401	PENS_T1	2	3	1	0.7	0.97	0.27	-0.14	-0.11	0	0	0	0	0	0
9/12/2024 15:44	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/12/2024 15:44	47403	PENS_T1	2	1	-1	1	2	1	0	0	0	0	0	0	0	0
9/12/2024 15:45	56501	ROCK_T2	0	0	0	0	0	0	-0.88	-0.92	0	0	0	0	0	0
9/12/2024 15:45	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 15:46	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 15:46	56501	ROCK_T2	0	0	0	0	0	0	-0.88	-0.92	0	0	0	0	0	0
9/12/2024 15:47	67502	WEWI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/12/2024 15:47	67503	WEWI_T2	1	1	0	6.9	6.8	-0.1	0.34	0.37	0	0	0	0	0	0
9/12/2024 15:47	66703	STRA_T1	0	0	0	0	0	0	0.51	0.46	0	0	0	0	0	0
9/12/2024 15:49	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0.19	0.09	1	1	0	600	600	0
9/12/2024 15:50	60101	COCA_T1	0	0	0	0	0	0	0.79	0.94	0	0	0	0	0	0
9/12/2024 15:50	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/12/2024 15:50	41301	FISH_T1	1	2	1	0.9	1.7	0.8	0	0	0	0	0	0	0	0
9/12/2024 15:51	24702	FLND_T2	1	1	0	0.1	0.2	0.1	0	0	1	1	0	1200	1200	0
9/12/2024 15:51	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0.09	0.1	1	1	0	600	600	0
9/12/2024 15:53	41301	FISH_T1	1	2	1	0.9	1.7	0.8	0.08	0.06	0	0	0	0	0	0
9/12/2024 15:55	47104	MARL_T1	1	0	-1	9.2	0	-9.2	0	0	0	0	0	0	0	0
9/12/2024 15:55	47101	MARL_T1	0	0	0	0	0	0	0.23	0.07	0	0	0	0	0	0
9/12/2024 15:56	52004	LING_T2	2	2	0	5.05	5.2	0.15	0	0	0	0	0	0	0	0
9/12/2024 15:56	52002	LING_T2	0	0	0	0	0	0	1.3	1.31	0	0	0	0	0	0
9/12/2024 15:57	58202	NEWV_T1	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
9/12/2024 15:57	58402	MORO_T1	1	0	-1	5.6	0	-5.6	0	0	0	0	0	0	0	0
9/12/2024 15:57	58401	MORO_T1	0	0	0	0	0	0	-1.49	-1.53	2	2	0	1500	1500	0
9/12/2024 15:57	44202	POIN_T2	0	0	0	0	0	0	-0.63	-0.72	2	2	0	2400	2400	0
9/12/2024 15:58	47101	MARL_T1	0	0	0	0	0	0	0.11	0.04	0	0	0	0	0	0
9/12/2024 15:58	44202	POIN_T2	0	0	0	0	0	0	-0.32	-0.36	1	1	0	1200	1200	0
9/12/2024 15:58	52004	LING_T2	2	2	0	5.05	5.2	0.15	0	0	0	0	0	0	0	0
9/12/2024 15:58	47104	MARL_T1	1	0	-1	9.2	0	-9.2	0	0	0	0	0	0	0	0
9/12/2024 15:58	52002	LING_T2	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
9/12/2024 15:59	40802	EXCH_T2	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
9/12/2024 15:59	47401	PENS_T1	3	1	-2	0.97	0.3	-0.67	-0.34	-0.34	0	0	0	0	0	0
9/12/2024 15:59	47403	PENS_T1	1	2	1	2	0.85	-1.15	0	0	0	0	0	0	0	0
9/12/2024 15:59	57702	PAXT_T1	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
9/12/2024 15:59	44202	POIN_T2	0	0	0	0	0	0	-0.32	-0.36	1	1	0	1200	1200	0
9/12/2024 16:00	58401	MORO_T1	0	0	0	0	0	0	-1.49	-1.53	2	2	0	1500	1500	0
9/12/2024 16:01	47401	PENS_T1	1	1	0	0.3	0.6	0.3	-0.11	-0.11	0	0	0	0	0	0
9/12/2024 16:01	47403	PENS_T1	1	2	1	1.6	0.65	-0.95	0	0	0	0	0	0	0	0
9/12/2024 16:04	58202	NEWV_T1	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
9/12/2024 16:08	40902	JESH_T1	0	0	0	0	0	0	-0.95	-0.91	1	1	0	600	600	0
9/12/2024 16:08	40901	JESH_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/12/2024 16:09	54506	ENOL_T2	0	0	0	0	0	0	-0.25	-0.14	1	1	0	600	600	0
9/12/2024 16:09	40902	JESH_T1	0	0	0	0	0	0	-0.95	-0.91	1	1	0	600	600	0
9/12/2024 16:09	40901	JESH_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/12/2024 16:11	64305	LINC_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/12/2024 16:11	64301	LINC_T1	0	0	0	0	0	0	-0.52	-0.44	1	1	0	600	600	0
9/12/2024 16:11	52004	LING_T2	2	2	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
9/12/2024 16:11	52002	LING_T2	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
9/12/2024 16:12	12701	MACU_T1	1	0	-1	0.1	0	-0.1	0.28	-0.91	0	1	1	0	1200	1200
9/12/2024 16:13	28704	HAML_T2	1	1	0	0.3	0.7	0.4	-0.01	-0.01	0	0	0	0	0	0
9/12/2024 16:13	28701	HAML_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/12/2024 16:13	65604	OJVIL_T2	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
9/12/2024 16:14	12602	MACA_T1	0	0	0	0	0	0	-2.14	-2.1	1	1	0	600	600	0
9/12/2024 16:14	57101	SPHI_T2	6	6	0	0.57	0.68	0.11	0	0	0	0	0	0	0	0
9/12/2024 16:14	47401	PENS_T1	1	1	0	0.3	0.6	0.3	-0.11	-0.09	0	0	0	0	0	0
9/12/2024 16:14	47403	PENS_T1	1	2	1	1.6	0.65	-0.95	0	0	0	0	0	0	0	0
9/12/2024 16:14	57106	SPHI_T2	3	3	0	0.77	0.7	-0.07	0	0	0	0	0	0	0	0
9/12/2024 16:14	57104	SPHI_T2	1	1	0	1.4	0.9	-0.5	-1.01	-1.03	1	1	0	900	900	0
9/12/2024 16:14	24801	VALM_T1	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
9/12/2024 16:15	52002	LING_T2	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
9/12/2024 16:15	52004	LING_T2	2	2	0	5.2	5.15	-0.05	0	0	0	0	0	0	0	0
9/12/2024 16:16	46302	ROHR_T1	2	2	0	0.6	0.55	-0.05	0.21	0.23	0	0	0	0	0	0
9/12/2024 16:16	46301	ROHR_T1	1	1	0	3.9	3.9	0	0	0	0	0	0	0	0	0
9/12/2024 16:17	44202	POIN_T2	0	0	0	0	0	0	-0.36	-0.39	1	1	0	1200	1200	0
9/12/2024 16:19	10602	BLGL_T2	1	1	0	0.2	0.2	0	0.53	0.56	0	0	0	0	0	0
9/12/2024 16:21	48902	FOSP_T2	0	0	0	0	0	0	0.32	0.28	0	0	0	0	0	0
9/12/2024 16:22	11102	EGYP_T1	1	1	0	0.8	1	0.2	0.2	0.18	0	0	0	0	0	0
9/12/2024 16:22	11104	EGYP_T1	6	5	-1	0.4	0.82	0.42	0	0	0	0	0	0	0	0
9/12/2024 16:24	48901	FOSP_T2	0	0	0	0	0	0	-0.31	-0.32	1	1	0	600	600	0
9/12/2024 16:25	16902	MECK_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
9/12/2024 16:30	47401	PENS_T1	1	2	1	0.6	0.2	-0.4	-0.09	-0.09	0	0	0	0	0	0
9/12/2024 16:30	47403	PENS_T1	0	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0
9/12/2024 16:31	47403	PENS_T1	0	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0
9/12/2024 16:31	47401	PENS_T1	1	2	1	0.6	0.2	-0.4	-0.09	-0.09	0	0	0	0	0	0
9/12/2024 16:32	47403	PENS_T1	0	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0
9/12/2024 16:32	47401	PENS_T1	1	2	1	0.6	0.2	-0.4	-0.09	-0.09	0	0	0	0	0	0
9/12/2024 16:39	10701	CATA_T2	0	0	0	0	0	0	-0.29	-0.29	1	1	0	1200	1200	0
9/12/2024 16:41	48901	FOSP_T2	0	0	0	0	0	0	-0.32	-0.35	1	1	0	600	600	0
9/12/2024 16:43	45501	DERR_T2	0	0	0	0	0	0	0.76	0.6	2	2	0	1800	1800	0
9/12/2024 16:46	46803	HEPB_T2	0	0	0	0	0	0	0.71	0.72	0	0	0	0	0	0
9/12/2024 16:48	58402	MORO_T1	0	0	0	0	0	0	-0.54	-0.52	3	3	0	2400	2400	0
9/12/2024 16:50	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
9/12/2024 16:50	16902	MECK_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
9/12/2024 16:53	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 16:53	65901	SAKR_T2	1	1	0	6.9	6.8	-0.1	-0.08	-0.07	1	1	0	600	600	0
9/12/2024 16:53	44203	POIN_T2	0	0	0	0	0	0	-0.05	-0.11	2	2	0	2100	2100	0
9/12/2024 16:53	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 16:54	44203	POIN_T2	0	0	0	0	0	0	-0.05	-0.11	2	2	0	2100	2100	0
9/12/2024 16:54	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 16:57	46004	BERW_T2	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
9/12/2024 16:57	46002	BERW_T2	0	0	0	0	0	0	-0.67	-0.71	1	1	0	900	900	0
9/12/2024 16:59	53501	EVIL_T2	1	2	1	0.6	0.7	0.1	-0.01	-0.01	1	1	0	600	600	0
9/12/2024 17:00	46101	MACI_T2	0	0	0	0	0	0	-0.06	0.82	1	0	-1	1200	0	-1200
9/12/2024 17:01	27102	GFLD_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/12/2024 17:01	27101	GFLD_T2	0	19	19	0	0	0	0.42	0.43	0	0	0	0	0	0
9/12/2024 17:04	46101	MACI_T2	0	0	0	0	0	0	-0.06	0.82	1	0	-1	1200	0	-1200
9/12/2024 17:05	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/12/2024 17:16	26402	INOR_T1	0	0	0	0	0	0	-1.74	-1.69	1	1	0	600	600	0
9/12/2024 17:16	26401	INOR_T1	1	1	0	8.4	8.6	0.2	0	0	0	0	0	0	0	0
9/12/2024 17:22	67502	WEWI_T2	0	0	0	0	0	0	-0.89	-0.87	1	1	0	900	900	0
9/12/2024 17:22	67503	WEWI_T2	1	1	0	6.4	6.1	-0.3	0	0	0	0	0	0	0	0
9/12/2024 17:27	43302	WATS_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 17:27	43304	WATS_T2	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
9/12/2024 17:29	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/12/2024 17:29	50107	HARR_T3	1	1	0	8	8.7	0.7	0	0	0	0	0	0	0	0
9/12/2024 17:29	50105	HARR_T3	6	6	0	6.73	6.47	-0.26	0	0	0	0	0	0	0	0
9/12/2024 17:36	66701	STRA_T1	0	0	0	0	0	0	0.8	0.78	2	2	0	1200	1200	0
9/12/2024 17:36	40602	PIGR_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
9/12/2024 17:41	46203	DANV_T2	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
9/12/2024 17:41	46206	DANV_T2	1	1	0	1.1	0.9	-0.2	1.71	1.7	2	2	0	2100	2100	0
9/12/2024 17:50	65502	MOJO_T2	0	0	0	0	0	0	-0.69	-0.71	1	1	0	900	900	0
9/12/2024 17:55	45602	WOOL_T1	0	0	0	0	0	0	0.89	0.92	0	0	0	0	0	0
9/12/2024 17:57	16004	DORN_T1	0	0	0	0	0	0	-1.44	-1.49	2	2	0	2400	2400	0
9/12/2024 17:58	16004	DORN_T1	0	0	0	0	0	0	-1.44	-1.49	2	2	0	2400	2400	0
9/12/2024 18:02	46102	MACI_T1	0	0	0	0	0	0	0.96	0.87	0	0	0	0	0	0
9/12/2024 18:06	42503	ALTA_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
9/12/2024 18:07	57401	SPAN_T1	0	2	2	0	0.25	0.25	-0.98	-0.98	1	1	0	600	600	0
9/12/2024 18:18	13005	NBET_T2	0	0	0	0	0	0	-0.33	-0.4	1	1	0	1200	1200	0
9/12/2024 18:29	46602	LACR_T1	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
9/12/2024 18:30	12006	HATF_T1	0	0	0	0	0	0	-0.14	-0.07	2	2	0	2400	2400	0
9/12/2024 18:30	12002	HATF_T1	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
9/12/2024 18:31	12002	HATF_T1	1	1	0	1.1	0.7	-0.4	0.43	0.49	1	1	0	1200	1200	0
9/12/2024 18:36	66503	SMAN_T2	0	0	0	0	0	0	0.84	0.79	0	0	0	0	0	0
9/12/2024 18:37	57004	WHHI_T2	0	0	0	0	0	0	-0.79	-0.88	0	0	0	0	0	0
9/12/2024 18:37	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 18:39	16301	ALPA_T1	0	0	0	0	0	0	0.66	0.59	0	0	0	0	0	0
9/12/2024 18:42	22904	HARW_T1	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
9/12/2024 18:42	22903	HARW_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/12/2024 18:50	66504	SMAN_T2	0	0	0	0	0	0	-1.08	-0.99	1	1	0	1200	1200	0
9/12/2024 18:53	15404	WALL_T1	0	0	0	0	0	0	-1.28	-1.33	0	0	0	0	0	0
9/12/2024 18:55	15404	WALL_T1	0	0	0	0	0	0	-1.28	-1.33	0	0	0	0	0	0
9/12/2024 19:04	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 19:04	40901	JESH_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/12/2024 19:07	41903	REED_T1	0	0	0	0	0	0	0.33	0.3	1	1	0	1200	1200	0
9/12/2024 19:07	41901	REED_T1	8	8	0	0.28	0.4	0.12	0	0	0	0	0	0	0	0
9/12/2024 20:19	25501	MADI_T1	3	4	1	1.13	1.35	0.22	0	0	0	0	0	0	0	0
9/12/2024 20:19	25503	MADI_T1	37	86	49	0.16	0.38	0.22	-0.87	-0.84	0	0	0	0	0	0
9/12/2024 20:33	23203	HIRU_T2	0	0	0	0	0	0	0.14	0.07	0	0	0	0	0	0
9/12/2024 20:34	57306	MOAL_T2	0	0	0	0	0	0	-2.93	-2.95	1	1	0	1200	1200	0
9/12/2024 20:34	57304	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 20:34	57303	MOAL_T2	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
9/12/2024 20:42	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 20:42	67803	WLAN_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
9/12/2024 20:46	57401	SPAN_T1	49	3	-46	0.23	0.7	0.47	0	0	0	0	0	0	0	0
9/12/2024 20:46	57403	SPAN_T1	32	30	-2	0.36	0.38	0.02	0.19	0.15	0	0	0	0	0	0
9/12/2024 20:52	42801	SELI_T1	0	0	0	0	0	0	-0.79	-0.83	1	1	0	1200	1200	0
9/12/2024 21:01	42302	MOWR_T2	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
9/12/2024 21:02	15001	BLMO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/12/2024 21:09	24105	EHAZ_T1	4	4	0	6.53	6.7	0.17	0	0	0	0	0	0	0	0
9/12/2024 21:09	24102	EHAZ_T1	1	2	1	1.2	0.9	-0.3	0.62	0.6	0	0	0	0	0	0
9/12/2024 21:11	16101	BING_T2	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
9/12/2024 21:11	67503	WEWI_T2	1	1	0	7.5	7.8	0.3	0	0	0	0	0	0	0	0
9/12/2024 21:11	67804	WLAN_T1	0	0	0	0	0	0	-0.87	-0.89	0	0	0	0	0	0
9/12/2024 21:11	67805	WLAN_T1	0	343	343	0	0.18	0.18	0	0	0	0	0	0	0	0
9/12/2024 21:11	67502	WEWI_T2	1	7	6	0.1	0.2	0.1	-1.2	-1.19	1	1	0	900	900	0
9/12/2024 21:12	28704	HAML_T2	2	2	0	0.55	0.6	0.05	0.03	-0.01	0	0	0	0	0	0
9/12/2024 21:12	63602	LETO_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
9/12/2024 21:12	15603	NSTR_T2	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
9/12/2024 21:12	28703	HAML_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/12/2024 21:12	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:12	15601	NSTR_T2	3	3	0	0.47	0.57	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:12	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:13	23202	HIRU_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
9/12/2024 21:13	10602	BLGL_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
9/12/2024 21:13	12402	MILF_T1	0	0	0	0	0	0	0.24	0.24	1	1	0	1200	1200	0
9/12/2024 21:13	24801	VALM_T1	0	0	0	0	0	0	-0.26	-0.31	0	0	0	0	0	0
9/12/2024 21:14	67804	WLAN_T1	0	0	0	0	0	0	-0.87	-0.89	0	0	0	0	0	0
9/12/2024 21:14	67805	WLAN_T1	0	343	343	0	0.18	0.18	0	0	0	0	0	0	0	0
9/12/2024 21:14	15703	TANN_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
9/12/2024 21:14	24902	WHHA_T1	0	2	2	0	0	0	0.77	0.76	0	0	0	0	0	0
9/12/2024 21:14	67605	WARW_T1	16	25	9	0.4	0.54	0.14	0	0	0	0	0	0	0	0
9/12/2024 21:14	67603	WARW_T1	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
9/12/2024 21:14	15702	TANN_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
9/12/2024 21:14	14601	SWHI_T1	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
9/12/2024 21:15	16302	ALPA_T2	0	0	0	0	0	0	0.86	0.83	0	0	0	0	0	0
9/12/2024 21:15	66505	SMAN_T2	1	3	2	0.1	0.53	0.43	0	0	0	0	0	0	0	0
9/12/2024 21:15	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:15	66504	SMAN_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
9/12/2024 21:15	64902	MILL_T2	0	0	0	0	0	0	-0.36	-0.37	1	1	0	900	900	0
9/12/2024 21:15	64202	KINZ_T1	2	8	6	0.45	0.31	-0.14	0	0	0	0	0	0	0	0
9/12/2024 21:15	64204	KINZ_T1	6	23	17	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
9/12/2024 21:15	13501	MCMI_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
9/12/2024 21:15	64201	KINZ_T1	7	7	0	0.21	0.39	0.18	-0.37	-0.4	3	3	0	1500	1500	0
9/12/2024 21:15	45902	AUBU_T1	1	15	14	0.1	0.19	0.09	-0.96	-0.98	1	1	0	600	600	0
9/12/2024 21:15	10805	CHHI_T2	1	1	0	7.6	7.6	0	-0.94	-1.04	1	1	0	600	600	0
9/12/2024 21:15	48302	ORWI_T2	2	2	0	1.05	1.2	0.15	0.04	0.03	0	0	0	0	0	0
9/12/2024 21:16	41304	FISH_T2	1	1	0	0	0	0	0.31	0.32	0	0	0	0	0	0
9/12/2024 21:16	67503	WEWI_T2	1	1	0	7.5	7.9	0.4	0.12	0.09	0	0	0	0	0	0
9/12/2024 21:16	66703	STRA_T1	0	3	3	0	0.2	0.2	-0.09	-0.12	0	0	0	0	0	0
9/12/2024 21:16	17002	RIRO_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
9/12/2024 21:16	61103	BERK_T5	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
9/12/2024 21:16	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:16	20601	GRWO_T2	0	0	0	0	0	0	0.76	0.79	0	0	0	0	0	0
9/12/2024 21:16	66701	STRA_T1	0	0	0	0	0	0	0.15	0.1	1	1	0	600	600	0
9/12/2024 21:16	67502	WEWI_T2	0	7	7	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:16	60803	BUCK_T1	0	11	11	0	0.29	0.29	0	0	0	0	0	0	0	0
9/12/2024 21:16	62102	ELAN_T1	0	0	0	0	0	0	1.05	1.14	0	0	0	0	0	0
9/12/2024 21:16	60801	BUCK_T1	0	11	11	0	0.14	0.14	-0.17	-0.19	0	0	0	0	0	0
9/12/2024 21:17	67503	WEWI_T2	1	1	0	7.5	7.9	0.4	0	0	0	0	0	0	0	0
9/12/2024 21:17	65802	RTWN_T2	0	0	0	0	0	0	0.07	0.02	0	0	0	0	0	0
9/12/2024 21:17	65001	NEFF_T2	0	0	0	0	0	0	-0.63	-0.71	1	1	0	1200	1200	0
9/12/2024 21:17	44301	BEAV_T2	0	0	0	0	0	0	-0.77	-0.65	1	1	0	600	600	0
9/12/2024 21:17	55101	WERT_T1	0	0	0	0	0	0	-1.09	-1.13	2	2	0	1500	1500	0
9/12/2024 21:17	16302	ALPA_T2	0	0	0	0	0	0	0.86	0.83	0	0	0	0	0	0
9/12/2024 21:17	14601	SWHI_T1	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
9/12/2024 21:17	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/12/2024 21:17	47101	MARL_T1	0	0	0	0	0	0	-0.12	-0.18	0	0	0	0	0	0
9/12/2024 21:17	11104	EGYP_T1	0	0	0	0	0	0	0.29	0.65	0	0	0	0	0	0
9/12/2024 21:17	46602	LACR_T1	0	1	1	0	0.1	0.1	-0.86	-0.85	0	0	0	0	0	0
9/12/2024 21:17	67502	WEWI_T2	0	7	7	0	0.2	0.2	-1.2	-1.19	1	1	0	900	900	0
9/12/2024 21:17	20403	ASHF_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
9/12/2024 21:17	14702	TREX_T2	0	0	0	0	0	0	1.14	1.14	0	0	0	0	0	0
9/12/2024 21:17	60101	COCA_T1	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
9/12/2024 21:17	23203	HIRU_T2	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
9/12/2024 21:17	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/12/2024 21:17	61102	BERK_T5	0	1	1	0	0.1	0.1	1.64	1.27	2	2	0	600	600	0
9/12/2024 21:18	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:18	14308	SUMN_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
9/12/2024 21:18	14601	SWHI_T1	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
9/12/2024 21:18	60101	COCA_T1	0	0	0	0	0	0	0.91	0.97	0	0	0	0	0	0
9/12/2024 21:18	12602	MACA_T1	0	0	0	0	0	0	-1.04	-1.07	0	0	0	0	0	0
9/12/2024 21:18	67502	WEWI_T2	0	7	7	0	0.2	0.2	-1.2	-1.19	1	1	0	900	900	0
9/12/2024 21:18	14401	SSLA_T1	0	0	0	0	0	0	-0.37	-0.42	0	0	0	0	0	0
9/12/2024 21:18	63602	LETO_T1	0	28	28	0	0.11	0.11	-0.16	-0.16	0	0	0	0	0	0
9/12/2024 21:18	14203	EALL_T1	0	0	0	0	0	0	-0.19	-0.2	1	1	0	1200	1200	0
9/12/2024 21:18	61103	BERK_T5	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
9/12/2024 21:18	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:18	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/12/2024 21:18	14303	SUMN_T1	3	3	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
9/12/2024 21:18	11507	FREE_T2	0	0	0	0	0	0	0.93	0.86	0	0	0	0	0	0
9/12/2024 21:18	25404	LAHA_T2	69	134	65	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
9/12/2024 21:18	60801	BUCK_T1	0	11	11	0	0.14	0.14	-0.17	-0.19	0	0	0	0	0	0
9/12/2024 21:18	67804	WLAN_T1	0	0	0	0	0	0	-0.87	-0.89	0	0	0	0	0	0
9/12/2024 21:18	67805	WLAN_T1	1	421	420	0.1	0.27	0.17	0	0	0	0	0	0	0	0
9/12/2024 21:18	25402	LAHA_T2	136	148	12	0.77	0.93	0.16	-0.85	-0.85	0	0	0	0	0	0
9/12/2024 21:18	67605	WARW_T1	18	25	7	0.38	0.54	0.16	-0.98	-1.01	0	0	0	0	0	0
9/12/2024 21:18	60803	BUCK_T1	0	11	11	0	0.29	0.29	0	0	0	0	0	0	0	0
9/12/2024 21:18	63403	HONY_T2	0	0	0	0	0	0	-1.05	-1.06	1	1	0	600	600	0
9/12/2024 21:18	67503	WEWI_T2	1	1	0	7.5	7.9	0.4	0.12	0.09	0	0	0	0	0	0
9/12/2024 21:18	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:18	27101	GFLD_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
9/12/2024 21:19	16402	MOPO_T1	0	0	0	0	0	0	1.34	1.34	0	0	0	0	0	0
9/12/2024 21:19	57401	SPAN_T1	2	193	191	0.85	0.26	-0.59	-0.51	-0.54	1	1	0	600	600	0
9/12/2024 21:19	61103	BERK_T5	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
9/12/2024 21:19	22904	HARW_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
9/12/2024 21:19	20601	GRWO_T2	0	0	0	0	0	0	0.76	0.79	0	0	0	0	0	0
9/12/2024 21:19	64202	KINZ_T1	2	8	6	0.45	0.31	-0.14	0	0	0	0	0	0	0	0
9/12/2024 21:19	61501	EPET_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
9/12/2024 21:19	46302	ROHR_T1	4	4	0	0.65	1.1	0.45	0.18	0.17	0	0	0	0	0	0
9/12/2024 21:19	51101	CARL_T1	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
9/12/2024 21:19	64204	KINZ_T1	6	23	17	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
9/12/2024 21:19	51102	CARL_T1	20	78	58	0.13	0.18	0.05	0	0	0	0	0	0	0	0
9/12/2024 21:19	22903	HARW_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
9/12/2024 21:19	65701	RVIL_T1	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
9/12/2024 21:19	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:19	50701	SMEC_T1	1	1	0	0	0	0	-0.42	-0.46	0	0	0	0	0	0
9/12/2024 21:19	57403	SPAN_T1	22	132	110	0.28	0.35	0.07	0	0	0	0	0	0	0	0
9/12/2024 21:19	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:19	24901	WHHA_T1	0	0	0	0	0	0	0.49	0.53	0	0	0	0	0	0
9/12/2024 21:19	42601	TUSC_T1	0	1	1	0	0	0	-0.82	-0.93	4	4	0	3600	3600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/12/2024 21:19	14602	SWHI_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
9/12/2024 21:19	60101	COCA_T1	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
9/12/2024 21:19	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:19	44302	BEAV_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
9/12/2024 21:19	50105	HARR_T3	6	6	0	5.68	5.83	0.15	0	0	0	0	0	0	0	0
9/12/2024 21:19	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
9/12/2024 21:19	56501	ROCK_T2	2	2	0	0.25	0.7	0.45	0.19	0.13	0	0	0	0	0	0
9/12/2024 21:19	48302	ORWI_T2	2	2	0	1.05	1.2	0.15	0.04	0.03	0	0	0	0	0	0
9/12/2024 21:19	44502	HAMI_T2	1	1	0	2	2.5	0.5	-0.64	-0.65	0	0	0	0	0	0
9/12/2024 21:19	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:19	47101	MARI_T1	0	0	0	0	0	0	-0.12	-0.18	0	0	0	0	0	0
9/12/2024 21:19	11102	EGYP_T1	0	0	0	0	0	0	-0.18	0.63	0	0	0	0	0	0
9/12/2024 21:19	50202	HARR_T3	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:19	44801	EDAN_T2	137	189	52	0.39	0.46	0.07	0	0	0	0	0	0	0	0
9/12/2024 21:19	26401	INOR_T1	1	1	0	8.4	8.8	0.4	0	0	0	0	0	0	0	0
9/12/2024 21:19	50103	HARR_T3	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:19	66505	SMAN_T2	1	3	2	0.1	0.53	0.43	0	0	0	0	0	0	0	0
9/12/2024 21:19	12002	HATF_T1	0	0	0	0	0	0	0.24	0.27	1	1	0	1200	1200	0
9/12/2024 21:19	64201	KINZ_T1	7	7	0	0.21	0.39	0.18	-0.37	-0.4	3	3	0	1500	1500	0
9/12/2024 21:19	50201	HARR_T3	1	1	0	0.7	0.1	-0.6	0	0	1	1	0	1200	1200	0
9/12/2024 21:19	42903	MIDD_T2	2	2	0	0.2	0.7	0.5	-0.21	-0.25	0	0	0	0	0	0
9/12/2024 21:19	26402	INOR_T1	0	0	0	0	0	0	-0.25	-0.4	0	0	0	0	0	0
9/12/2024 21:19	11602	CEAL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:19	66504	SMAN_T2	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
9/12/2024 21:19	46301	ROHR_T1	1	1	0	5.2	5.8	0.6	0	0	0	0	0	0	0	0
9/12/2024 21:19	50107	HARR_T3	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
9/12/2024 21:19	44802	EDAN_T2	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
9/12/2024 21:19	24902	WHHA_T1	0	2	2	0	0.1	0.1	0.77	0.76	0	0	0	0	0	0
9/12/2024 21:19	61504	EPET_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
9/12/2024 21:19	11202	ELHE_T2	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
9/12/2024 21:19	23203	HIRU_T2	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
9/12/2024 21:20	56501	ROCK_T2	2	2	0	0.25	0.7	0.45	0	0	0	0	0	0	0	0
9/12/2024 21:20	47403	PENS_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
9/12/2024 21:20	52002	LING_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
9/12/2024 21:20	61103	BERK_T5	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
9/12/2024 21:20	52202	DEVO_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
9/12/2024 21:20	46302	ROHR_T1	4	4	0	0.65	1.1	0.45	0	0	0	0	0	0	0	0
9/12/2024 21:20	28704	HAMI_T2	1	4	3	0.9	0.35	-0.55	0	0	0	0	0	0	0	0
9/12/2024 21:20	50201	HARR_T3	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
9/12/2024 21:20	10805	DIHI_T2	1	1	0	7.6	7.6	0	-0.94	-1.04	1	1	0	600	600	0
9/12/2024 21:20	48902	FOSP_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
9/12/2024 21:20	53901	HALI_T2	1	2	1	1	0.7	-0.3	-1.12	-1.1	0	0	0	0	0	0
9/12/2024 21:20	45902	AUBU_T1	1	15	14	0.1	0.19	0.09	-1.91	-1.97	2	2	0	1200	1200	0
9/12/2024 21:20	52006	LING_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/12/2024 21:20	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:20	41304	FISH_T2	1	1	0	0	0	0	0.31	0.32	0	0	0	0	0	0
9/12/2024 21:20	64202	KINZ_T1	2	8	6	0.45	0.31	-0.14	0	0	0	0	0	0	0	0
9/12/2024 21:20	64204	KINZ_T1	6	23	17	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
9/12/2024 21:20	46501	LOHA_T1	0	0	0	0	0	0	0.09	0.06	1	1	0	1200	1200	0
9/12/2024 21:20	42802	SELI_T1	0	1	1	0	0.4	0.4	-1.15	-1.13	1	1	0	900	900	0
9/12/2024 21:20	14403	SSLA_T1	0	0	0	0	0	0	0.77	0.75	0	0	0	0	0	0
9/12/2024 21:20	14702	TREX_T2	0	0	0	0	0	0	1.14	1.14	0	0	0	0	0	0
9/12/2024 21:20	65701	RVIL_T1	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
9/12/2024 21:20	46301	ROHR_T1	1	1	0	5.2	5.8	0.6	0.2	0.19	0	0	0	0	0	0
9/12/2024 21:20	52004	LING_T2	2	2	0	6.05	6.3	0.25	0	0	0	0	0	0	0	0
9/12/2024 21:20	67502	WEWI_T2	0	7	7	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:20	20502	HGTN_T1	3	3	0	5.93	5.8	-0.13	0	0	0	0	0	0	0	0
9/12/2024 21:20	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:20	64802	MONE_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/12/2024 21:20	63306	GREE_T1	0	0	0	0	0	0	-4.04	-2.74	2	2	0	1800	1800	0
9/12/2024 21:20	64201	KINZ_T1	7	7	0	0.21	0.39	0.18	-0.37	-0.4	3	3	0	1500	1500	0
9/12/2024 21:20	56504	ROCK_T2	0	0	0	0	0	0	-0.22	-0.29	0	0	0	0	0	0
9/12/2024 21:20	63305	GREE_T1	1	10	9	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:20	64801	MONE_T2	0	5	5	0	0.2	0.2	0.41	0.39	0	0	0	0	0	0
9/12/2024 21:20	41301	FISH_T1	1	2	1	2.6	0.7	-1.9	0	0	0	0	0	0	0	0
9/12/2024 21:20	67503	WEWI_T2	1	1	0	7.5	7.9	0.4	0.12	0.09	0	0	0	0	0	0
9/12/2024 21:20	50202	HARR_T3	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:20	28702	HAMI_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
9/12/2024 21:20	46506	LOHA_T1	3	3	0	5.03	5.67	0.64	0	0	0	0	0	0	0	0
9/12/2024 21:20	50103	HARR_T3	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:20	11104	EGYP_T1	0	0	0	0	0	0	0.29	0.65	0	0	0	0	0	0
9/12/2024 21:20	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:20	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/12/2024 21:20	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/12/2024 21:20	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:20	64101	REFR_T1	2	0	-2	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
9/12/2024 21:20	57401	SPAN_T1	2	193	191	0.85	0.26	-0.59	-1.54	-1.61	3	3	0	1800	1800	0
9/12/2024 21:20	20501	HGTN_T1	0	0	0	0	0	0	0.52	0.56	2	2	0	1200	1200	0
9/12/2024 21:20	48302	ORWI_T2	2	2	0	1.05	1.2	0.15	0	0	0	0	0	0	0	0
9/12/2024 21:20	46504	LOHA_T1	2	2	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
9/12/2024 21:20	46002	BERW_T2	0	0	0	0	0	0	-0.89	-0.83	1	1	0	900	900	0
9/12/2024 21:20	46206	DANV_T2	0	0	0	0	0	0	1.5	1.35	2	2	0	2100	2100	0
9/12/2024 21:20	53903	HALI_T2	2	2	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:20	44202	POIN_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/12/2024 21:20	50105	HARR_T3	6	6	0	5.68	5.83	0.15	0	0	0	0	0	0	0	0
9/12/2024 21:20	47401	PENS_T1	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
9/12/2024 21:20	67803	WLAN_T1	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
9/12/2024 21:20	46203	DANV_T2	1	1	0	8.1	8.7	0.6	0	0	0	0	0	0	0	0
9/12/2024 21:20	40602	PIGR_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
9/12/2024 21:20	67805	WLAN_T1	1	421	420	0.1	0.27	0.17	0	0	0	0	0	0	0	0
9/12/2024 21:20	15404	WALL_T1	0	0	0	0	0	0	-1.47	-1.48	0	0	0	0	0	0
9/12/2024 21:20	50107	HARR_T3	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
9/12/2024 21:20	44203	POIN_T2	0	0	0	0	0	0	-0.47	-0.45	2	2	0	2100	2100	0
9/12/2024 21:20	63304	GREE_T1	0	258	258	0	0.15	0.15	0	0	0	0	0	0	0	0
9/12/2024 21:20	47101	MARI_T1	0	0	0	0	0	0	-0.12	-0.18	0	0	0	0	0	0
9/12/2024 21:20	57403	SPAN_T1	22	132	110	0.28	0.35	0.07	0	0	0	0	0	0	0	0
9/12/2024 21:21	67605	WARW_T1	18	25	7	0.38	0.54	0.16	-1.01	-1.05	0	0	0	0	0	0
9/12/2024 21:21	66902	SHIL_T2	55	198	143	0.14	0.17	0.03	0	0	0	0	0	0	0	0
9/12/2024 21:21	44902	SCOT_T2	1	0	-1	0.4	0	-0.4	-0.74	-0.78	0	0	0	0	0	0
9/12/2024 21:21	61102	BERK_T5	0	1	1	0	0.1	0.1	1.27	1.21	2	2	0	600	600	0
9/12/2024 21:21	56504	ROCK_T2	0	0	0	0	0	0	-0.11	-0.14	0	0	0	0	0	0
9/12/2024 21:21	15702	TANN_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
9/12/2024 21:21	65502	MOJO_T2	0	267	267	0	0.25	0.25	0	0	0	0	0	0	0	0
9/12/2024 21:21	64901	MILL_T1	0	46	46	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:21	64101	REFR_T1	2	0	-2	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
9/12/2024 21:21	64301	LINC_T1	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
9/12/2024 21:21	44203	POIN_T2	0	0	0	0	0	0	-0.45	-0.47	2	2	0	2100	2100	0
9/12/2024 21:21	16302	ALPA_T2	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
9/12/2024 21:21	42601	TUSC_T1	0	1	1	0	0	0	-0.46	-0.39	2	2	0	1800	1800	0
9/12/2024 21:21	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
9/12/2024 21:21	64801	MONE_T2	0	5	5	0	0.2	0.2	0.39	0.36	0	0	0	0	0	0
9/12/2024 21:21	40602	PIGR_T1	1	1	0	1.2	0.9	-0.3	-0.38	-0.42	1	1	0	600	600	0
9/12/2024 21:21	47403	PENS_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
9/12/2024 21:21	44202	POIN_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/12/2024 21:21	20403	ASHF_T2	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
9/12/2024 21:21	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/12/2024 21:21	64802	MONE_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/12/2024 21:21	46101	MACI_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
9/12/2024 21:21	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:21	52006	LING_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/12/2024 21:21	45902	AUBU_T1	1	15	14	0.1	0.19	0.09	-0.98	-1.02	1	1	0	600	600	0
9/12/2024 21:21	47401	PENS_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
9/12/2024 21:21	60101	COCA_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
9/12/2024 21:21	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:21	24902	WHHA_T1	0	2	2	0	0.1	0.1	0.76	0.75	0	0	0	0	0	0
9/12/2024 21:21	65503	MOJO_T2	0	66	66	0	0.13	0.13	-0.08	-0.07	0	0	0	0	0	0
9/12/2024 21:21	57702	PAXT_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
9/12/2024 21:21	52002	LING_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
9/12/2024 21:21	46203	DANV_T2	1	1	0	8.1	8.7	0.6	0	0	0	0	0	0	0	0
9/12/2024 21:21	48301	ORWI_T1	2	2	0	5.4	5.8	0.4	-0.46	-0.5	1	1	0	900	900	0
9/12/2024 21:21	52004	LING_T2	2	2	0	6.05	6.3	0.25	0.28	0.25	0	0	0	0	0	0
9/12/2024 21:21	41304	FISH_T2	1	1	0	0	0	0	0.32	0.29	0	0	0	0	0	0
9/12/2024 21:21	61501	EPET_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
9/12/2024 21:21	66901	SHIL_T2	197	284	87	0.23	0.3	0.07	-1.47	-1.49	1	1	0	1200	1200	0
9/12/2024 21:21	42201	SHEN_T2	1	2	1	0.1	0.1	0	0.03	0.01	1	1	0	600	600	0
9/12/2024 21:21	53903	HALI_T2	2	2	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:21	66903	SHIL_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:21	46206	DANV_T2	0	0	0	0	0	0	1.35	1.4	2	2	0	2100	2100	0
9/12/2024 21:21	56501	ROCK_T2	2	2	0	0.25	0.7	0.45	0	0	0	0	0	0	0	0
9/12/2024 21:21	61506	EPET_T2	0	0	0	0	0	0	-0.74	-0.79	1	1	0	900	900	0
9/12/2024 21:21	14801	TREI_T2	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
9/12/2024 21:21	64904	MILL_T1	0	8	8	0	0.18	0.18	-0.12	-0.16	0	0	0	0	0	0
9/12/2024 21:21	65901	SAKR_T2	1	1	0	8.2	8.5	0.3	-0.53	-0.53	1	1	0	600	600	0
9/12/2024 21:21	41205	KENM_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
9/12/2024 21:21	67505	WEWI_T1	0	0	0	0	0	0	0.09	0.09	1	1	0	900	900	0
9/12/2024 21:21	64305	LINC_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:21	53901	HALI_T2	1	2	1	1	0.7	-0.3	-1.12	-1.1	0	0	0	0	0	0
9/12/2024 21:21	46002	BERW_T2	0	0	0	0	0	0	-0.83	-0.87	1	1	0	900	900	0
9/12/2024 21:22	67805	WLAN_T1	1	421	420	0.1	0.27	0.17	0	0	0	0	0	0	0	0
9/12/2024 21:22	45902	AUBU_T1	1	15	14	0.1	0.19	0.09	-1.97	-2.04	2	2	0	1200	1200	0
9/12/2024 21:22	64101	REFR_T1	2	0	-2	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
9/12/2024 21:22	13704	SCHN_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
9/12/2024 21:22	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/12/2024 21:22	43103	SMIL_T2	4	16	12	0.58	0.53	-0.05	0	0	0	0	0	0	0	0
9/12/2024 21:22	44201	POIN_T1	0	0	0	0	0	0	-1.59	-1.61	2	2	0	2100	2100	0
9/12/2024 21:22	66505	SMAN_T2	1	3	2	0.1	0.53	0.43	0	0	0	0	0	0	0	0
9/12/2024 21:22	48301	ORWI_T1	2	2	0	5.4	5.8	0.4	-0.46	-0.5	1	1	0	900	900	0
9/12/2024 21:22	40602	PIGR_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
9/12/2024 21:22	16004	DORN_T1	0	0	0	0	0	0	-0.64	-0.72	1	1	0	1200	1200	0
9/12/2024 21:22	62105	ELAN_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
9/12/2024 21:22	57106	SPHI_T2	3	3	0	1.87	2.07	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:22	63401	HONY_T1	0	0	0	0	0	0	-0.04	-0.07	1	1	0	600	600	0
9/12/2024 21:22	27604	PIRI_T1	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/12/2024 21:22	43301	WATS_T2	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
9/12/2024 21:22	12604	MACA_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
9/12/2024 21:22	57104	SPHI_T2	0	0	0	0	0	0	-1.42	-1.45	1	1	0	900	900	0
9/12/2024 21:22	23401	HONE_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
9/12/2024 21:22	53903	HALI_T2	2	2	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:22	12807	MICK_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:22	48302	ORWI_T2	2	2	0	1.05	1.2	0.15	0.1	-0.01	0	0	0	0	0	0
9/12/2024 21:22	53501	EVIL_T2	2	2	0	0.3	0.75	0.45	-0.01	-0.01	1	1	0	600	600	0
9/12/2024 21:22	60201	ATGL_T2	0	2	2	0	0.1	0.1	0.08	0.06	0	0	0	0	0	0
9/12/2024 21:22	65701	RVIL_T1	0	0	0	0	0	0	-0.98	-1.04	0	0	0	0	0	0
9/12/2024 21:22	54505	ENOL_T2	1	1	0	0.7	1.2	0.5	-0.65	-0.66	1	1	0	600	600	0
9/12/2024 21:22	23203	HIRU_T2	0	0	0	0	0	0	0.13	0.06	0	0	0	0	0	0
9/12/2024 21:22	11405	FARM_T1	1	1	0	5.2	4.6	-0.6	0	0	0	0	0	0	0	0
9/12/2024 21:22	53901	HALI_T2	1	2	1	1	0.7	-0.3	-2.21	-2.35	0	0	0	0	0	0
9/12/2024 21:22	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:22	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/12/2024 21:22	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:22	57101	SPHI_T2	6	6	0	1.23	0.82	-0.41	0	0	0	0	0	0	0	0
9/12/2024 21:22	43108	SMIL_T2	0	1	1	0	0.1	0.1	-0.99	-1.02	1	1	0	1200	1200	0
9/12/2024 21:22	20201	JERM_T1	0	0	0	0	0	0	1.82	1.81	0	0	0	0	0	0
9/12/2024 21:22	67804	WLAN_T1	0	0	0	0	0	0	-1.77	-1.85	0	0	0	0	0	0
9/12/2024 21:22	45501	DERR_T2	2	2	0	1.3	0	-1.3	0.87	0.21	2	2	0	1800	1800	0
9/12/2024 21:22	14601	SWHI_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
9/12/2024 21:22	43105	SMIL_T2	6	15	9	0.12	0.24	0.12	0	0	0	0	0	0	0	0
9/12/2024 21:22	56501	ROCK_T2	2	2	0	0.25	0.7	0.45	0	0	0	0	0	0	0	0
9/12/2024 21:22	10801	CHHI_T1	0	0	0	0	0	0	-1.18	-1.19	2	2	0	1500	1500	0
9/12/2024 21:22	47101	MARL_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
9/12/2024 21:22	64602	LEOL_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
9/12/2024 21:22	21504	CEAV_T1	0	0	0	0	0	0	-0.66	-0.69	1	1	0	1200	1200	0
9/12/2024 21:22	12801	MICK_T1	0	0	0	0	0	0	-0.87	-0.17	1	0	-1	600	0	-600
9/12/2024 21:22	61301	EARL_T1	0	0	0	0	0	0	-1.08	-1.1	2	2	0	1800	1800	0
9/12/2024 21:22	14605	SWHI_T1	0	0	0	0	0	0	1.23	1.22	1	1	0	1200	1200	0
9/12/2024 21:22	63501	HEID_TBK1-2	32	79	47	0.56	0.16	-0.4	-0.33	0.61	1	0	-1	900	0	-900
9/12/2024 21:22	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:22	43302	WATS_T2	1	4	3	0.1	0.48	0.38	0	0	0	0	0	0	0	0
9/12/2024 21:22	56504	ROCK_T2	0	0	0	0	0	0	-0.14	-0.19	0	0	0	0	0	0
9/12/2024 21:22	43102	SMIL_T2	5	7	2	0.62	0.71	0.09	0	0	0	0	0	0	0	0
9/12/2024 21:22	66504	SMAN_T2	0	0	0	0	0	0	-0.17	-0.26	0	0	0	0	0	0
9/12/2024 21:22	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:23	41301	FISH_T1	1	2	1	2.6	0.7	-1.9	0	-0.01	0	0	0	0	0	0
9/12/2024 21:23	51904	COPA_T1	5	5	0	0.56	0.8	0.24	0	0	0	0	0	0	0	0
9/12/2024 21:23	56501	ROCK_T2	2	2	0	0.25	0.7	0.45	0.13	0.13	0	0	0	0	0	0
9/12/2024 21:23	61001	DONV_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
9/12/2024 21:23	10801	CHHI_T1	0	0	0	0	0	0	-1.18	-1.19	2	2	0	1500	1500	0
9/12/2024 21:23	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:23	15702	TANN_T2	0	0	0	0	0	0	-0.69	-0.75	0	0	0	0	0	0
9/12/2024 21:23	53601	DALM_T2	0	1	1	0	0.5	0.5	0.13	0.11	0	0	0	0	0	0
9/12/2024 21:23	65205	PRIN_T1	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
9/12/2024 21:23	16103	BING_T2	0	0	0	0	0	0	-1.25	-1.28	1	1	0	900	900	0
9/12/2024 21:23	51902	COPA_T1	0	0	0	0	0	0	-0.43	-0.46	1	1	0	1200	1200	0
9/12/2024 21:23	12006	HATF_T1	0	0	0	0	0	0	0.78	0.65	1	1	0	1200	1200	0
9/12/2024 21:23	61102	BERK_T5	0	1	1	0	0.1	0.1	0.63	0.61	1	1	0	300	300	0
9/12/2024 21:23	27604	PIRI_T1	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
9/12/2024 21:23	50107	HARR_T3	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
9/12/2024 21:23	46002	BERW_T2	0	0	0	0	0	0	-0.83	-0.87	1	1	0	900	900	0
9/12/2024 21:23	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/12/2024 21:23	16901	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
9/12/2024 21:23	54506	ENOL_T2	0	0	0	0	0	0	0.27	0.23	1	1	0	600	600	0
9/12/2024 21:23	43302	WATS_T2	1	4	3	0.1	0.48	0.38	0	0	0	0	0	0	0	0
9/12/2024 21:23	50202	HARR_T3	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:23	42903	MIDD_T2	2	2	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
9/12/2024 21:23	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
9/12/2024 21:23	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:23	56504	ROCK_T2	0	0	0	0	0	0	-0.29	-0.39	0	0	0	0	0	0
9/12/2024 21:23	50105	HARR_T3	6	6	0	5.68	5.83	0.15	0	0	0	0	0	0	0	0
9/12/2024 21:23	53502	EVIL_T2	0	0	0	0	0	0	-0.3	-0.34	1	1	0	600	600	0
9/12/2024 21:23	20403	ASHF_T2	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
9/12/2024 21:23	42902	MIDD_T2	0	0	0	0	0	0	-0.23	-0.29	0	0	0	0	0	0
9/12/2024 21:23	65604	QVIL_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
9/12/2024 21:23	50201	HARR_T3	1	1	0	0.7	0.1	-0.6	0	0	1	0	-1	1200	0	-1200
9/12/2024 21:23	48301	ORWI_T1	2	2	0	5.4	5.8	0.4	-0.46	-0.5	1	1	0	900	900	0
9/12/2024 21:23	47401	PENS_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
9/12/2024 21:23	14604	SWHI_T1	0	0	0	0	0	0	0.22	0.22	1	1	0	900	900	0
9/12/2024 21:23	53501	EVIL_T2	2	2	0	0.3	0.75	0.45	0	0	0	0	0	0	0	0
9/12/2024 21:23	67605	WARW_T1	18	25	7	0.38	0.54	0.16	-1.01	-1.05	0	0	0	0	0	0
9/12/2024 21:23	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:23	53903	HALI_T2	2	2	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:23	53901	HALI_T2	1	2	1	1	0.7	-0.3	-2.21	-2.35	0	0	0	0	0	0
9/12/2024 21:23	55101	WERT_T1	0	0	0	0	0	0	-1.13	-1.18	2	2	0	1500	1500	0
9/12/2024 21:23	41304	FISH_T2	1	1	0	0	0	0	0.32	0.29	0	0	0	0	0	0
9/12/2024 21:23	47403	PENS_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
9/12/2024 21:23	45801	HEGI_T1	0	0	0	0	0	0	0	-0.02	1	1	0	900	900	0
9/12/2024 21:23	44801	EDAN_T2	137	189	52	0.39	0.46	0.07	0	0	0	0	0	0	0	0
9/12/2024 21:23	54505	ENOL_T2	1	1	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
9/12/2024 21:23	50103	HARR_T3	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:23	43304	WATS_T2	0	0	0	0	0	0	-1.02	-1.05	0	0	0	0	0	0
9/12/2024 21:23	44802	EDAN_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
9/12/2024 21:23	64101	REFR_T1	2	0	-2	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
9/12/2024 21:24	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:24	48901	FOSP_T2	0	0	0	0	0	0	-0.38	-0.34	1	1	0	600	600	0
9/12/2024 21:24	64101	REFR_T1	2	0	-2	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
9/12/2024 21:24	44502	HAMI_T2	1	1	0	2	2.5	0.5	0	0	0	0	0	0	0	0
9/12/2024 21:24	13002	NBET_T2	0	0	0	0	0	0	-0.17	-0.19	1	1	0	1200	1200	0
9/12/2024 21:24	47401	PENS_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
9/12/2024 21:24	44201	POIN_T1	0	0	0	0	0	0	-3.18	-3.21	4	4	0	4200	4200	0
9/12/2024 21:24	14603	SWHI_T1	0	0	0	0	0	0	-0.74	-0.79	1	1	0	600	600	0
9/12/2024 21:24	52002	LING_T2	0	0	0	0	0	0	0.26	0.19	0	0	0	0	0	0
9/12/2024 21:24	44505	HAMI_T2	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
9/12/2024 21:24	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/12/2024 21:24	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/12/2024 21:24	52006	LING_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/12/2024 21:24	56501	ROCK_T2	2	2	0	0.25	0.7	0.45	0.38	0.39	0	0	0	0	0	0
9/12/2024 21:24	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:24	14202	EALL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:24	64801	MONE_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:24	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:24	47403	PENS_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
9/12/2024 21:24	14601	SWHI_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
9/12/2024 21:24	52004	LING_T2	2	2	0	6.05	6.3	0.25	0	0	0	0	0	0	0	0
9/12/2024 21:24	46504	LOHA_T1	2	2	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
9/12/2024 21:24	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:24	46506	LOHA_T1	3	3	0	5.03	5.67	0.64	0	0	0	0	0	0	0	0
9/12/2024 21:24	44202	POIN_T2	1	0	-1	0.5	0	-0.5	-0.56	-0.57	1	1	0	1200	1200	0
9/12/2024 21:24	45501	DERR_T2	2	2	0	1.3	0	-1.3	0.87	0.21	2	2	0	1800	1800	0
9/12/2024 21:24	65701	RVIL_T1	0	0	0	0	0	0	-0.98	-1.04	0	0	0	0	0	0
9/12/2024 21:24	57403	SPAN_T1	22	132	110	0.28	0.35	0.07	0	0	0	0	0	0	0	0
9/12/2024 21:24	14204	EALL_T2	5	0	-5	0.36	0	-0.36	0.46	0.46	0	0	0	0	0	0
9/12/2024 21:24	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.67	0	0	0	0	0	0
9/12/2024 21:24	53903	HALI_T2	2	2	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:24	46501	LOHA_T1	0	0	0	0	0	0	0.06	0.01	1	1	0	1200	1200	0
9/12/2024 21:24	64204	KINZ_T1	6	23	17	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
9/12/2024 21:24	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:24	64802	MONE_T2	0	2	2	0	0.15	0.15	0.1	0.31	0	0	0	0	0	0
9/12/2024 21:24	64202	KINZ_T1	2	8	6	0.45	0.31	-0.14	0	0	0	0	0	0	0	0
9/12/2024 21:24	64203	KINZ_T1	0	0	0	0	0	0	-0.21	0.36	1	0	-1	600	0	-600
9/12/2024 21:24	64201	KINZ_T1	7	7	0	0.21	0.39	0.18	0	0	0	0	0	0	0	0
9/12/2024 21:24	13005	NBET_T2	0	0	0	0	0	0	-0.59	-0.63	1	1	0	1200	1200	0
9/12/2024 21:24	57401	SPAN_T1	2	193	191	0.85	0.26	-0.59	-0.54	-0.91	1	1	0	600	600	0
9/12/2024 21:24	53901	HALI_T2	1	2	1	1	0.7	-0.3	-1.1	-1.18	0	0	0	0	0	0
9/12/2024 21:25	67502	WEWI_T2	0	7	7	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:25	57006	WHHI_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:25	46203	DANV_T2	1	1	0	8.1	8.7	0.6	-1.14	-1.21	0	0	0	0	0	0
9/12/2024 21:25	64101	REFR_T1	2	0	-2	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
9/12/2024 21:25	67503	WEWI_T2	1	1	0	7.5	7.9	0.4	0.09	0.1	0	0	0	0	0	0
9/12/2024 21:25	65901	SAKR_T2	1	1	0	8.2	8.5	0.3	0	0	0	0	0	0	0	0
9/12/2024 21:25	63304	GREE_T1	0	0	0	0	0	0	-1.37	-1.41	1	1	0	900	900	0
9/12/2024 21:25	42802	SELI_T1	0	1	1	0	0.4	0.4	-2.27	-2.4	2	2	0	1800	1800	0
9/12/2024 21:25	61102	BERK_T5	0	1	1	0	0.1	0.1	0.63	0.61	1	1	0	300	300	0
9/12/2024 21:25	53501	EVIL_T2	2	2	0	0.3	0.75	0.45	-0.01	-0.01	2	2	0	1200	1200	0
9/12/2024 21:25	65904	SAKR_T2	0	0	0	0	0	0	-1.72	-1.74	2	2	0	900	900	0
9/12/2024 21:25	48301	ORWI_T1	2	2	0	5.4	5.8	0.4	-0.46	-0.5	1	1	0	900	900	0
9/12/2024 21:25	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/12/2024 21:25	63305	GREE_T1	1	10	9	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:25	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
9/12/2024 21:25	44201	POIN_T1	0	0	0	0	0	0	-1.59	-1.61	2	2	0	2100	2100	0
9/12/2024 21:25	46801	HEPB_T2	2	2	0	0.1	0.35	0.25	0	0	0	0	0	0	0	0
9/12/2024 21:25	63304	GREE_T1	0	258	258	0	0.15	0.15	0	0	0	0	0	0	0	0
9/12/2024 21:25	46506	LOHA_T1	3	3	0	5.03	5.67	0.64	0	0	0	0	0	0	0	0
9/12/2024 21:25	46501	LOHA_T1	0	0	0	0	0	0	0.06	0.01	1	1	0	1200	1200	0
9/12/2024 21:25	44801	EDAN_T2	137	189	52	0.39	0.46	0.07	0	0	0	0	0	0	0	0
9/12/2024 21:25	47403	PENS_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
9/12/2024 21:25	16302	ALPA_T2	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
9/12/2024 21:25	46803	HEPB_T2	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
9/12/2024 21:25	11104	EGYP_T1	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
9/12/2024 21:25	46504	LOHA_T1	2	2	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
9/12/2024 21:25	66505	SMAN_T2	1	3	2	0.1	0.53	0.43	0.18	0.02	2	2	0	1500	1500	0
9/12/2024 21:25	66502	SMAN_T2	0	0	0	0	0	0	0	0.07	0	0	0	0	0	0
9/12/2024 21:25	47401	PENS_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
9/12/2024 21:25	57002	WHHI_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
9/12/2024 21:25	20403	ASHF_T2	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
9/12/2024 21:25	64201	KINZ_T1	7	7	0	0.21	0.39	0.18	0	0	0	0	0	0	0	0
9/12/2024 21:25	64202	KINZ_T1	2	8	6	0.45	0.31	-0.14	0	0	0	0	0	0	0	0
9/12/2024 21:25	44802	EDAN_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/12/2024 21:25	64203	KINZ_T1	0	0	0	0	0	0	-0.21	0.36	1	0	-1	600	0	-600
9/12/2024 21:25	44301	BEAV_T2	0	0	0	0	0	0	-0.65	-0.68	1	1	0	600	600	0
9/12/2024 21:25	45602	WOOL_T1	0	5	5	0	0.1	0.1	0.74	0.74	0	0	0	0	0	0
9/12/2024 21:25	12701	MACU_T1	0	0	0	0	0	0	-1.13	-1.11	1	1	0	1200	1200	0
9/12/2024 21:25	56501	ROCK_T2	2	2	0	0.25	0.7	0.45	0.13	0.13	0	0	0	0	0	0
9/12/2024 21:25	64204	KINZ_T1	6	23	17	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
9/12/2024 21:25	40602	PIGR_T1	1	1	0	1.2	0.9	-0.3	-0.38	-0.42	1	1	0	600	600	0
9/12/2024 21:26	63501	HEID_TBK1-2	32	79	47	0.56	0.16	-0.4	-0.33	0.61	1	0	-1	900	0	-900
9/12/2024 21:26	53901	HALI_T2	1	2	1	1	0.7	-0.3	-1.1	-1.18	0	0	0	0	0	0
9/12/2024 21:26	43402	BENT_T1	0	0	0	0	0	0	-0.58	-0.6	1	1	0	600	600	0
9/12/2024 21:26	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:26	64902	MILL_T2	0	0	0	0	0	0	-0.37	-0.42	1	1	0	900	900	0
9/12/2024 21:26	67801	WLAN_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
9/12/2024 21:26	20403	ASHF_T2	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
9/12/2024 21:26	51906	COPA_T1	0	0	0	0	0	0	-0.86	-0.92	2	2	0	1500	1500	0
9/12/2024 21:26	59101	WALK_T2	0	0	0	0	0	0	3	2.89	3	3	0	1800	1800	0
9/12/2024 21:26	51904	COPA_T1	5	5	0	0.56	0.8	0.24	0	0	0	0	0	0	0	0
9/12/2024 21:26	46004	BERW_T2	0	1	1	0	0	0	-0.22	-0.23	0	0	0	0	0	0
9/12/2024 21:26	16301	ALPA_T1	0	0	0	0	0	0	0.31	0.27	0	0	0	0	0	0
9/12/2024 21:26	57702	PAXT_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
9/12/2024 21:26	42503	ALTA_T2	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
9/12/2024 21:26	50701	SMEC_T1	1	1	0	0	0	0	-0.46	0.7	0	0	0	0	0	0
9/12/2024 21:26	44801	EDAN_T2	137	189	52	0.39	0.46	0.07	-1.55	-1.54	0	0	0	0	0	0
9/12/2024 21:26	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:26	44502	HAMI_T2	1	1	0	2	2.5	0.5	0	0	0	0	0	0	0	0
9/12/2024 21:26	64101	REFR_T1	2	0	-2	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
9/12/2024 21:26	60101	COCA_T1	0	0	0	0	0	0	0.97	0.93	0	0	0	0	0	0
9/12/2024 21:26	44302	BEAV_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
9/12/2024 21:26	44505	HAMI_T2	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
9/12/2024 21:26	44301	BEAV_T2	0	0	0	0	0	0	-0.65	-0.68	1	1	0	600	600	0
9/12/2024 21:26	45802	HEGI_T2	24	47	23	0.33	1.28	0.95	0.45	0.39	0	0	0	0	0	0
9/12/2024 21:26	53903	HALI_T2	2	2	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:26	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/12/2024 21:26	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:26	13704	SCHN_T2	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
9/12/2024 21:26	67805	WLAN_T1	1	421	420	0.1	0.27	0.17	0	0	0	0	0	0	0	0
9/12/2024 21:26	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:26	14601	SWHI_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
9/12/2024 21:27	64305	LINC_T1	0	1	1	0	0.1	0.1	-0.42	-0.45	0	0	0	0	0	0
9/12/2024 21:27	47104	MARL_T1	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
9/12/2024 21:27	58202	NEWV_T1	0	2	2	0	0.2	0.2	0.46	0.23	0	0	0	0	0	0
9/12/2024 21:27	64204	KINZ_T1	6	23	17	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
9/12/2024 21:27	63302	GREE_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
9/12/2024 21:27	64201	KINZ_T1	7	7	0	0.21	0.39	0.18	0	0	0	0	0	0	0	0
9/12/2024 21:27	44801	EDAN_T2	137	189	52	0.39	0.46	0.07	-1.55	-1.54	0	0	0	0	0	0
9/12/2024 21:27	66701	STRA_T1	0	0	0	0	0	0	0.1	0.69	1	0	-1	600	0	-600
9/12/2024 21:27	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/12/2024 21:27	45802	HEGI_T2	24	47	23	0.33	1.28	0.95	0.45	0.39	0	0	0	0	0	0
9/12/2024 21:27	63501	HEID_TBK1-2	32	79	47	0.56	0.16	-0.4	-0.33	0.61	1	0	-1	900	0	-900
9/12/2024 21:27	53502	EVIL_T2	0	0	0	0	0	0	-0.3	-0.34	1	1	0	600	600	0
9/12/2024 21:27	47401	PENS_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
9/12/2024 21:27	46504	LOHA_T1	2	2	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
9/12/2024 21:27	53501	EVIL_T2	2	2	0	0.3	0.75	0.45	0	0	0	0	0	0	0	0
9/12/2024 21:27	64203	KINZ_T1	0	0	0	0	0	0	-0.21	0.36	1	0	-1	600	0	-600
9/12/2024 21:27	11301	EMMA_T1	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
9/12/2024 21:27	43304	WATS_T2	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
9/12/2024 21:27	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.67	0	0	0	0	0	0
9/12/2024 21:27	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:27	64801	MONE_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:27	63304	GREE_T1	0	258	258	0	0.15	0.15	0	0	0	0	0	0	0	0
9/12/2024 21:27	43302	WATS_T2	1	4	3	0.1	0.48	0.38	0	0	0	0	0	0	0	0
9/12/2024 21:27	55002	NEWP_T1	4	5	1	0.43	0.66	0.23	0	0	0	0	0	0	0	0
9/12/2024 21:27	46506	LOHA_T1	3	3	0	5.03	5.67	0.64	0.04	0.02	0	0	0	0	0	0
9/12/2024 21:27	14603	SWHI_T1	0	0	0	0	0	0	-0.74	-0.79	1	1	0	600	600	0
9/12/2024 21:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:27	56501	ROCK_T2	2	2	0	0.25	0.7	0.45	0.13	0.13	0	0	0	0	0	0
9/12/2024 21:27	44301	BEAV_T2	0	0	0	0	0	0	-0.65	-0.68	1	1	0	600	600	0
9/12/2024 21:27	64101	REFR_T1	2	0	-2	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
9/12/2024 21:27	12701	MACU_T1	0	0	0	0	0	0	-1.13	-1.11	1	1	0	1200	1200	0
9/12/2024 21:27	47403	PENS_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
9/12/2024 21:27	44802	EDAN_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
9/12/2024 21:27	63305	GREE_T1	1	10	9	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:27	64802	MONE_T2	0	2	2	0	0.15	0.15	0.1	0.31	0	0	0	0	0	0
9/12/2024 21:27	66703	STRA_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:27	24902	WHHA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:27	24901	WHHA_T1	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
9/12/2024 21:27	55001	NEWP_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
9/12/2024 21:27	64202	KINZ_T1	2	8	6	0.45	0.31	-0.14	0	0	0	0	0	0	0	0
9/12/2024 21:27	67605	WARW_T1	18	25	7	0.38	0.54	0.16	-1.01	-1.05	0	0	0	0	0	0
9/12/2024 21:27	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:28	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:28	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:28	55001	NEWP_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
9/12/2024 21:28	47901	HRDG_T1	0	0	0	0	0	0	1.67	1.6	0	0	0	0	0	0
9/12/2024 21:28	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:28	55405	SHER_T1	6	9	3	1.02	0.8	-0.22	-0.17	-0.17	0	0	0	0	0	0
9/12/2024 21:28	64901	MILL_T1	0	46	46	0	0.2	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:28	65701	RVIL_T1	0	0	0	0	0	0	-0.98	-1.04	0	0	0	0	0	0
9/12/2024 21:28	64101	REFR_T1	2	0	-2	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
9/12/2024 21:28	61502	EPET_T1	0	0	0	0	0	0	-0.85	-0.88	0	0	0	0	0	0
9/12/2024 21:28	14601	SWHI_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
9/12/2024 21:28	57205	ROSS_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
9/12/2024 21:28	13905	SEID_T1	0	0	0	0	0	0	-0.85	-0.87	1	1	0	1200	1200	0
9/12/2024 21:28	57401	SPAN_T1	2	193	191	0.85	0.26	-0.59	-0.54	-0.91	1	1	0	600	600	0
9/12/2024 21:28	40802	EXCH_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
9/12/2024 21:28	20401	ASHF_T2	0	2	2	0	0.15	0.15	-0.1	-0.17	0	0	0	0	0	0
9/12/2024 21:28	47101	MARL_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
9/12/2024 21:28	44202	POIN_T2	1	0	-1	0.5	0	-0.5	-0.56	-0.57	1	1	0	1200	1200	0
9/12/2024 21:28	64904	MILL_T1	0	8	8	0	0.18	0.18	-0.12	-0.16	0	0	0	0	0	0
9/12/2024 21:28	40801	EXCH_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:28	53903	HALI_T2	2	2	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:28	61801	EELI_T2	0	0	0	0	0	0	-0.14	-0.21	0	0	0	0	0	0
9/12/2024 21:28	16004	DORN_T1	0	0	0	0	0	0	-0.64	-0.72	1	1	0	1200	1200	0
9/12/2024 21:28	42201	SHEN_T2	1	2	1	0.1	0.1	0	0.03	0.01	1	1	0	600	600	0
9/12/2024 21:28	10701	CATA_T2	0	0	0	0	0	0	-0.54	-0.57	1	1	0	1200	1200	0
9/12/2024 21:28	46101	MACI_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
9/12/2024 21:28	45801	HEGI_T1	0	0	0	0	0	0	0	-0.02	1	1	0	900	900	0
9/12/2024 21:28	44802	EDAN_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
9/12/2024 21:28	20603	GRWO_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
9/12/2024 21:28	13503	MCMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:28	57201	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:28	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:28	44801	EDAN_T2	137	189	52	0.39	0.46	0.07	-1.55	-1.54	0	0	0	0	0	0
9/12/2024 21:28	57403	SPAN_T1	22	132	110	0.28	0.35	0.07	0	0	0	0	0	0	0	0
9/12/2024 21:28	46004	BERW_T2	0	1	1	0	0	0	-0.22	-0.23	0	0	0	0	0	0
9/12/2024 21:28	53501	EVIL_T2	2	2	0	0.3	0.75	0.45	-0.01	-0.01	1	1	0	600	600	0
9/12/2024 21:28	53901	HALI_T2	1	2	1	1	0.7	-0.3	-1.1	-1.18	0	0	0	0	0	0
9/12/2024 21:28	55002	NEWP_T1	4	5	1	0.43	0.66	0.23	0	0	0	0	0	0	0	0
9/12/2024 21:28	12302	LANA_T2	0	0	0	0	0	0	-1.32	-1.35	2	2	0	1500	1500	0
9/12/2024 21:29	63501	HEID_TBK1-2	32	79	47	0.56	0.16	-0.4	-0.33	0.61	1	0	-1	900	0	-900
9/12/2024 21:29	64202	KINZ_T1	2	8	6	0.45	0.31	-0.14	0	0	0	0	0	0	0	0
9/12/2024 21:29	53901	HALI_T2	1	2	1	1	0.7	-0.3	-1.1	-1.18	0	0	0	0	0	0
9/12/2024 21:29	64101	REFR_T1	2	0	-2	0.2	0	-0.2	-0.01	-0.01	0	0	0	0	0	0
9/12/2024 21:29	64204	KINZ_T1	6	23	17	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
9/12/2024 21:29	66505	SMAN_T2	1	3	2	0.1	0.53	0.43	0	0	0	0	0	0	0	0
9/12/2024 21:29	14403	SSLA_T1	0	0	0	0	0	0	0.75	0.69	0	0	0	0	0	0
9/12/2024 21:29	64203	KINZ_T1	0	0	0	0	0	0	-0.21	0.36	1	0	-1	600	0	-600
9/12/2024 21:29	42201	SHEN_T2	1	2	1	0.1	0.1	0	0.03	0.01	1	1	0	600	600	0
9/12/2024 21:29	58401	MORO_T1	0	0	0	0	0	0	-0.99	-0.38	1	0	-1	600	0	-600
9/12/2024 21:29	47401	PENS_T1	0	0	0	0	0	0	1.26	1.22	0	0	0	0	0	0
9/12/2024 21:29	42802	SELI_T1	0	1	1	0	0.4	0.4	-2.27	-2.4	2	2	0	1800	1800	0
9/12/2024 21:29	52202	DEVO_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
9/12/2024 21:29	59402	RFLD_T2	0	0	0	0	0	0	-0.82	-0.82	1	1	0	450	450	0
9/12/2024 21:29	57401	SPAN_T1	2	193	191	0.85	0.26	-0.59	-1.07	-1.83	2	2	0	1200	1200	0
9/12/2024 21:29	46504	LOHA_T1	2	2	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
9/12/2024 21:29	66503	SMAN_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
9/12/2024 21:29	40801	EXCH_T2	1	1	0	0.1	0.2	0.1	-0.33	-0.28	1	1	0	1200	1200	0
9/12/2024 21:29	46206	DANV_T2	0	0	0	0	0	0	1.35	1.4	2	2	0	2100	2100	0
9/12/2024 21:29	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
9/12/2024 21:29	46506	LOHA_T1	3	3	0	5.03	5.67	0.64	0.07	0.04	0	0	0	0	0	0
9/12/2024 21:29	40802	EXCH_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
9/12/2024 21:29	47101	MARL_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
9/12/2024 21:29	42903	MIDD_T2	2	2	0	0.2	0.7	0.5	-0.25	-0.26	0	0	0	0	0	0
9/12/2024 21:29	46203	DANV_T2	1	1	0	8.1	8.7	0.6	0	0	0	0	0	0	0	0
9/12/2024 21:29	47403	PENS_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
9/12/2024 21:29	61102	BERK_T5	0	1	1	0	0.1	0.1	0.63	0.61	1	1	0	300	300	0
9/12/2024 21:29	40902	JESH_T1	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
9/12/2024 21:29	67703	WERN_T2	0	0	0	0	0	0	0.06	0.01	1	1	0	900	900	0
9/12/2024 21:29	55101	WERT_T1	0	0	0	0	0	0	-2.26	-2.35	4	4	0	3000	3000	0
9/12/2024 21:29	53903	HALI_T2	2	2	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
9/12/2024 21:29	57403	SPAN_T1	22	132	110	0.28	0.35	0.07	0	0	0	0	0	0	0	0
9/12/2024 21:29	64201	KINZ_T1	7	7	0	0.21	0.39	0.18	0	0	0	0	0	0	0	0
9/12/2024 21:29	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:30	62102	ELAN_T1	0	0	0	0	0	0	1.14	0.95	0	0	0	0	0	0
9/12/2024 21:30	50202	HARR_T3	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/12/2024 21:30	57403	SPAN_T1	52	188	136	0.34	0.47	0.13	0.14	0.14	0	0	0	0	0	0
9/12/2024 21:30	44201	POIN_T1	0	0	0	0	0	0	-1.59	-1.61	2	2	0	2100	2100	0
9/12/2024 21:30	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.67	0	0	0	0	0	0
9/12/2024 21:30	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:30	44302	BEAV_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
9/12/2024 21:30	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:30	47901	HRDG_T1	0	0	0	0	0	0	1.67	1.6	0	0	0	0	0	0
9/12/2024 21:30	57401	SPAN_T1	5	261	256	0.46	0.28	-0.18	-0.54	-0.91	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/12/2024 21:30	50103	HARR_T3	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
9/12/2024 21:30	50107	HARR_T3	1	1	0	6.7	7.7	1	0	0	0	0	0	0	0	0
9/12/2024 21:30	55101	WERT_T1	0	0	0	0	0	0	-2.26	-2.35	4	4	0	3000	3000	0
9/12/2024 21:30	50105	HARR_T3	6	6	0	5.83	6.18	0.35	0	0	0	0	0	0	0	0
9/12/2024 21:30	65502	MOJO_T2	170	268	98	0.16	0.25	0.09	-1.46	-1.43	1	1	0	900	900	0
9/12/2024 21:30	15404	WALL_T1	0	0	0	0	0	0	-1.48	-1.51	0	0	0	0	0	0
9/12/2024 21:30	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:30	43302	WATS_T2	3	4	1	0.27	0.9	0.63	0	0	0	0	0	0	0	0
9/12/2024 21:30	60101	COCA_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
9/12/2024 21:30	14403	SSLA_T1	0	0	0	0	0	0	0.75	0.69	0	0	0	0	0	0
9/12/2024 21:30	44202	POIN_T2	0	0	0	0	0	0	-0.56	-0.57	1	1	0	1200	1200	0
9/12/2024 21:30	65503	MOJO_T2	4	66	62	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/12/2024 21:30	66505	SMAN_T2	3	3	0	0.27	0.63	0.36	0	0	0	0	0	0	0	0
9/12/2024 21:30	53501	EVIL_T2	2	2	0	0.65	0.8	0.15	-0.01	-0.01	1	1	0	600	600	0
9/12/2024 21:30	50201	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	1	0	-1	1200	0	-1200
9/12/2024 21:30	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:31	46301	ROHR_T1	1	1	0	5.6	6	0.4	0	0	0	0	0	0	0	0
9/12/2024 21:31	66505	SMAN_T2	3	3	0	0.27	0.63	0.36	0	0	0	0	0	0	0	0
9/12/2024 21:31	44802	EDAN_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
9/12/2024 21:31	52002	LING_T2	0	1	1	0	0.2	0.2	0.26	0.19	0	0	0	0	0	0
9/12/2024 21:31	43402	BENT_T1	0	0	0	0	0	0	-0.58	-0.6	1	1	0	600	600	0
9/12/2024 21:31	43304	WATS_T2	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
9/12/2024 21:31	55001	NEWP_T1	0	22	22	0	0.17	0.17	0	0	0	0	0	0	0	0
9/12/2024 21:31	56504	ROCK_T2	0	0	0	0	0	0	-0.14	-0.19	0	0	0	0	0	0
9/12/2024 21:31	67605	WARW_T1	25	15	-10	0.54	0.45	-0.09	-1.01	-1.05	0	0	0	0	0	0
9/12/2024 21:31	52006	LING_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:31	40902	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:31	42802	SELI_T1	0	1	1	0	0.4	0.4	-2.27	-2.4	2	2	0	1800	1800	0
9/12/2024 21:31	44301	BEAV_T2	0	0	0	0	0	0	-0.65	-0.68	1	1	-1	600	600	0
9/12/2024 21:31	56501	ROCK_T2	2	2	0	0.55	0.7	0.15	0.13	0.13	0	0	0	0	0	0
9/12/2024 21:31	44801	EDAN_T2	152	260	108	0.43	0.54	0.11	0	0	0	0	0	0	0	0
9/12/2024 21:31	57006	WHIH_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
9/12/2024 21:31	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:31	21501	CEAV_T2	0	0	0	0	0	0	-0.29	-0.4	1	1	0	1200	1200	0
9/12/2024 21:31	55002	NEWP_T1	4	6	2	0.45	0.73	0.28	0	0	0	0	0	0	0	0
9/12/2024 21:31	47101	MARL_T1	0	0	0	0	0	0	-0.36	-0.41	0	0	0	0	0	0
9/12/2024 21:31	57004	WHIH_T2	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
9/12/2024 21:31	46302	ROHR_T1	4	4	0	0.7	1.3	0.6	0.17	0.16	0	0	0	0	0	0
9/12/2024 21:31	66504	SMAN_T2	0	0	0	0	0	0	-0.17	-0.26	0	0	0	0	0	0
9/12/2024 21:31	58401	MORO_T1	0	0	0	0	0	0	-0.99	-0.38	1	0	-1	600	0	-600
9/12/2024 21:31	52004	LING_T2	2	2	0	6.3	6.35	0.05	0	0	0	0	0	0	0	0
9/12/2024 21:31	43302	WATS_T2	3	4	1	0.27	0.9	0.63	0	0	0	0	0	0	0	0
9/12/2024 21:31	41901	REED_T1	9	9	0	0.26	0.57	0.31	0	0	0	0	0	0	0	0
9/12/2024 21:31	41902	REED_T1	0	0	0	0	0	0	1.2	1.19	0	0	0	0	0	0
9/12/2024 21:31	66703	STRA_T1	3	0	0	0.2	0.2	0	-0.12	-0.08	0	0	0	0	0	0
9/12/2024 21:31	46001	BERW_T1	0	0	0	0	0	0	0.78	0.79	0	0	0	0	0	0
9/12/2024 21:32	67804	WLAN_T1	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
9/12/2024 21:32	55101	WERT_T1	0	0	0	0	0	0	-1.13	-1.18	2	2	0	1500	1500	0
9/12/2024 21:32	44301	BEAV_T2	0	0	0	0	0	0	-0.65	-0.68	1	1	0	600	600	0
9/12/2024 21:32	52202	DEVO_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
9/12/2024 21:32	53501	EVIL_T2	2	2	0	0.65	0.8	0.15	-0.01	-0.01	1	1	0	600	600	0
9/12/2024 21:32	56501	ROCK_T2	2	2	0	0.55	0.7	0.15	0.13	0.13	0	0	0	0	0	0
9/12/2024 21:32	53601	DALM_T2	1	1	0	0.2	0.5	0.3	0.13	0.11	0	0	0	0	0	0
9/12/2024 21:32	44202	POIN_T2	0	0	0	0	0	0	-0.56	-0.57	1	1	0	1200	1200	0
9/12/2024 21:32	58402	MORO_T1	0	0	0	0	0	0	-0.09	-0.08	2	2	0	1500	1500	0
9/12/2024 21:32	48901	FOSP_T2	0	0	0	0	0	0	-0.38	-0.34	1	1	0	600	600	0
9/12/2024 21:32	44203	POIN_T2	0	0	0	0	0	0	-0.45	-0.47	2	2	0	2100	2100	0
9/12/2024 21:32	53903	HALI_T2	2	2	0	1.65	1.7	0.05	-0.08	-0.07	0	0	0	0	0	0
9/12/2024 21:32	67805	WLAN_T1	343	439	96	0.18	0.27	0.09	0	0	0	0	0	0	0	0
9/12/2024 21:32	53902	HALI_T2	1	1	0	5.7	5.3	-0.4	0	0	0	0	0	0	0	0
9/12/2024 21:32	59402	RFLD_T2	0	0	0	0	0	0	-0.82	-0.82	1	1	0	450	450	0
9/12/2024 21:32	58401	MORO_T1	0	0	0	0	0	0	-0.99	-0.38	1	0	-1	600	0	-600
9/12/2024 21:32	53901	HALI_T2	1	2	1	1.3	0.7	-0.6	-2.21	-2.35	0	0	0	0	0	0
9/12/2024 21:33	53903	HALI_T2	2	2	0	1.65	1.7	0.05	0	0	0	0	0	0	0	0
9/12/2024 21:33	59101	WALK_T2	0	0	0	0	0	0	1	0.96	1	1	0	600	600	0
9/12/2024 21:33	55105	WERT_T1	0	0	0	0	0	0	-0.17	-0.24	1	1	0	900	900	0
9/12/2024 21:33	57403	SPAN_T1	52	188	136	0.34	0.47	0.13	0	0	0	0	0	0	0	0
9/12/2024 21:33	58401	MORO_T1	0	0	0	0	0	0	-0.99	-0.38	1	0	-1	600	0	-600
9/12/2024 21:33	44202	POIN_T2	0	0	0	0	0	0	-0.56	-0.57	1	1	0	1200	1200	0
9/12/2024 21:33	53901	HALI_T2	1	2	1	1.3	0.7	-0.6	-1.1	-1.18	0	0	0	0	0	0
9/12/2024 21:33	53902	HALI_T2	1	1	0	5.7	5.3	-0.4	0	0	0	0	0	0	0	0
9/12/2024 21:33	57401	SPAN_T1	5	261	256	0.46	0.28	-0.18	-0.54	-0.91	1	1	0	600	600	0
9/12/2024 21:34	53902	HALI_T2	1	1	0	5.7	5.3	-0.4	-0.09	-0.13	0	0	0	0	0	0
9/12/2024 21:34	52006	LING_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/12/2024 21:34	52002	LING_T2	0	1	1	0	0.2	0.2	0.26	0.19	0	0	0	0	0	0
9/12/2024 21:34	41903	REED_T1	0	0	0	0	0	0	-0.06	-0.22	1	1	0	1200	1200	0
9/12/2024 21:34	52202	DEVO_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
9/12/2024 21:34	52004	LING_T2	2	2	0	6.3	6.35	0.05	0	0	0	0	0	0	0	0
9/12/2024 21:34	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.67	0	0	0	0	0	0
9/12/2024 21:34	53903	HALI_T2	2	2	0	1.65	1.7	0.05	0	0	0	0	0	0	0	0
9/12/2024 21:34	46506	LOHA_T1	3	3	0	5.53	5.9	0.37	0.04	0.02	0	0	0	0	0	0
9/12/2024 21:34	41902	REED_T1	0	0	0	0	0	0	1.2	1.19	0	0	0	0	0	0
9/12/2024 21:34	41901	REED_T1	9	9	0	0.26	0.57	0.31	0	0	0	0	0	0	0	0
9/12/2024 21:34	53901	HALI_T2	1	2	1	1.3	0.7	-0.6	0	0	0	0	0	0	0	0
9/12/2024 21:34	46504	LOHA_T1	2	7	5	1.1	0.51	-0.59	0	0	0	0	0	0	0	0
9/12/2024 21:34	44302	BEAV_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
9/12/2024 21:35	44301	BEAV_T2	0	0	0	0	0	0	-0.65	-0.68	1	1	0	600	600	0
9/12/2024 21:35	44302	BEAV_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
9/12/2024 21:35	66505	SMAN_T2	3	3	0	0.27	0.63	0.36	0	0	0	0	0	0	0	0
9/12/2024 21:35	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2024 21:35	57401	SPAN_T1	5	261	256	0.46	0.28	-0.18	0	0	0	0	0	0	0	0
9/12/2024 21:35	57403	SPAN_T1	52	188	136	0.34	0.47	0.13	0.14	0.14	0	0	0	0	0	0
9/12/2024 21:37	15602	NSTR_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
9/12/2024 21:37	15601	NSTR_T2	3	3	0	0.3	0.43	0.13	0	0	0	0	0	0	0	0
9/12/2024 21:45	60101	COCA_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
9/12/2024 22:14	44301	BEAV_T2	0	0	0	0	0	0	-0.36	-0.1	1	1	0	600	600	0
9/12/2024 22:17	61102	BERK_T5	0	0	0	0	0	0	0.52	0.51	1	1	0	300	300	0
9/12/2024 22:17	62607	ENGL_T1	0	0	0	0	0	0	-0.81	-0.81	1	1	0	300	300	0
9/12/2024 22:20	58202	NEWV_T1	0	0	0	0	0	0	0.11	0.07	0	0	0	0	0	0
9/12/2024 22:23	61103	BERK_T5	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
9/12/2024 22:28	61102	BERK_T5	0	0	0	0	0	0	0.51	0.4	1	1	0	300	300	0
9/12/2024 22:49	61102	BERK_T5	0	0	0	0	0	0	0.4	0.35	1	1	0	300	300	0
9/12/2024 22:51	40902	JESH_T1	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
9/12/2024 22:56	61103	BERK_T5	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
9/12/2024 23:45	46102	MACI_T1	0	0	0	0	0	0	0.77	0.77	0	0	0	0	0	0
9/13/2024 0:22	53903	HALI_T2	2	2	0	1.45	1.45	0	-0.19	-0.19	0	0	0	0	0	0
9/13/2024 0:22	53902	HALI_T2	1	1	0	5.8	5.4	-0.4	0	0	0	0	0	0	0	0
9/13/2024 0:22	53901	HALI_T2	1	4	3	1.5	0.63	-0.87	0	0	0	0	0	0	0	0
9/13/2024 0:37	61102	BERK_T5	0	0	0	0	0	0	0.27	0.22	1	1	0	300	300	0
9/13/2024 1:56	50105	HARR_T3	6	6	0	6.03	6.13	0.1	0	0	0	0	0	0	0	0
9/13/2024 1:56	50103	HARR_T3	2	2	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/13/2024 1:56	50107	HARR_T3	1	1	0	6.8	7.2	0.4	0	0	0	0	0	0	0	0
9/13/2024 1:56	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 2:26	61102	BERK_T5	0	0	0	0	0	0	0.12	0.08	1	1	0	300	300	0
9/13/2024 2:47	61102	BERK_T5	0	0	0	0	0	0	0.08	0.1	1	1	0	300	300	0
9/13/2024 6:31	53901	HALI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/13/2024 6:31	50201	HARR_T3	1	1	0	0	0	0	0	0	1	1	0	1200	1200	0
9/13/2024 6:31	41902	REED_T1	0	0	0	0	0	0	0.94	0.95	0	0	0	0	0	0
9/13/2024 6:31	46102	MACI_T1	0	0	0	0	0	0	0.74	0.72	0	0	0	0	0	0
9/13/2024 6:31	48302	ORWI_T2	2	2	0	0.6	0.8	0.2	-0.12	-0.07	0	0	0	0	0	0
9/13/2024 6:31	63501	HEID_TBK1-2	49	34	-15	0.63	0.44	-0.19	-0.05	-0.01	1	1	0	900	900	0
9/13/2024 6:31	50107	HARR_T3	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
9/13/2024 6:31	53902	HALI_T2	1	1	0	4.8	5.1	0.3	0	0	0	0	0	0	0	0
9/13/2024 6:31	42302	MOWR_T2	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
9/13/2024 6:31	53903	HALI_T2	0	2	2	0	0.6	0.6	-0.15	-0.2	0	0	0	0	0	0
9/13/2024 6:31	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 6:31	56501	ROCK_T2	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
9/13/2024 6:31	50103	HARR_T3	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/13/2024 6:31	50105	HARR_T3	6	6	0	6.1	6.02	-0.08	0	0	0	0	0	0	0	0
9/13/2024 6:31	22904	HARW_T1	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
9/13/2024 6:31	40602	PIGR_T1	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
9/13/2024 6:31	45801	HEGI_T1	0	0	0	0	0	0	-0.17	-0.15	1	1	0	900	900	0
9/13/2024 6:32	63501	HEID_TBK1-2	49	34	-15	0.63	0.44	-0.19	-0.05	-0.01	1	1	0	900	900	0
9/13/2024 6:32	61102	BERK_T5	0	0	0	0	0	0	0.38	0.48	1	1	0	300	300	0
9/13/2024 6:57	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 6:57	45801	HEGI_T1	0	0	0	0	0	0	-0.14	-0.11	1	1	0	900	900	0
9/13/2024 7:22	13103	NHAM_T2	1	0	-1	2.3	0	-2.3	-1.73	-1.73	1	1	0	600	600	0
9/13/2024 7:28	61102	BERK_T5	0	0	0	0	0	0	0.6	0.63	1	1	0	300	300	0
9/13/2024 7:29	57401	SPAN_T1	175	2	-173	0.25	0.6	0.35	-0.28	-0.11	0	0	0	0	0	0
9/13/2024 7:29	57403	SPAN_T1	167	2	-165	0.31	0.1	-0.21	0	0	0	0	0	0	0	0
9/13/2024 7:33	16004	DORN_T1	0	0	0	0	0	0	-1.11	-1.05	1	1	0	1200	1200	0
9/13/2024 7:35	12605	MACA_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
9/13/2024 7:36	12605	MACA_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
9/13/2024 7:43	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 7:46	40802	EXCH_T2	0	0	0	0	0	0	0.23	0.08	0	0	0	0	0	0
9/13/2024 7:46	16004	DORN_T1	0	0	0	0	0	0	-1.05	-0.96	1	1	0	1200	1200	0
9/13/2024 7:46	40801	EXCH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 7:47	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 7:48	16004	DORN_T1	0	0	0	0	0	0	-1.05	-0.96	1	1	0	1200	1200	0
9/13/2024 7:52	52001	LING_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
9/13/2024 7:53	57401	SPAN_T1	2	3	1	0.45	0.9	0.45	-0.82	-1.08	1	1	0	600	600	0
9/13/2024 7:55	57401	SPAN_T1	2	3	1	0.45	0.9	0.45	-0.82	-1.08	1	1	0	600	600	0
9/13/2024 7:57	57401	SPAN_T1	2	3	1	0.45	0.9	0.45	-0.82	-1.08	1	1	0	600	600	0
9/13/2024 7:58	67501	WEWI_T1	43	0	-43	0.16	0	-0.16	-1.15	-1.08	1	1	0	600	600	0
9/13/2024 7:58	10102	ALLE_T2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
9/13/2024 7:58	10206	ALLE_T2	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
9/13/2024 7:58	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 8:01	67501	WEWI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 8:02	45901	AUBU_T1	0	0	0	0	0	0	1.35	1.35	0	0	0	0	0	0
9/13/2024 8:03	40101	HUNT_T2	0	2	2	0	0	0	-0.35	-0.36	0	0	0	0	0	0
9/13/2024 8:03	12006	HATF_T1	0	0	0	0	0	0	-0.08	0.12	2	2	0	2400	2400	0
9/13/2024 8:03	53601	DALM_T2	1	1	0	0.3	0.5	0.2	-0.07	-0.18	1	1	0	900	900	0
9/13/2024 8:07	55002	NEWP_T1	4	5	1	0.85	0.68	-0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/13/2024 8:07	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 8:07	52502	PROG_T2	0	0	0	0	0	0	-0.71	-0.7	1	1	0	900	900	0
9/13/2024 8:07	64902	MILL_T2	0	0	0	0	0	0	-0.54	-0.66	1	1	0	900	900	0
9/13/2024 8:08	55002	NEWP_T1	4	5	1	0.85	0.68	-0.17	0	0	0	0	0	0	0	0
9/13/2024 8:08	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 8:10	61102	BERK_T5	0	0	0	0	0	0	0.52	0.64	1	1	0	300	300	0
9/13/2024 8:11	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 8:13	66703	STRA_T1	0	0	0	0	0	0	-0.24	-0.05	0	0	0	0	0	0
9/13/2024 8:13	46001	BERW_T1	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
9/13/2024 8:13	55002	NEWP_T1	4	5	1	0.85	0.68	-0.17	0	0	0	0	0	0	0	0
9/13/2024 8:14	46001	BERW_T1	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
9/13/2024 8:14	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 8:21	20802	LOPO_T1	1	1	0	0.1	0.1	0	-0.59	-0.59	1	1	0	600	600	0
9/13/2024 8:21	55507	HERS_T1	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
9/13/2024 8:23	15203	SFAR_T2	0	0	0	0	0	0	-0.62	-0.58	0	0	0	0	0	0
9/13/2024 8:24	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 8:25	57106	SPHI_T2	3	3	0	0.5	1.07	0.57	0	0	0	0	0	0	0	0
9/13/2024 8:25	57104	SPHI_T2	2	3	1	2.5	3.27	0.77	0	0	0	0	0	0	0	0
9/13/2024 8:25	57103	SPHI_T2	0	0	0	0	0	0	-0.31	-0.31	1	1	0	600	600	0
9/13/2024 8:25	57101	SPHI_T2	3	6	3	0.17	1	0.83	0	0	0	0	0	0	0	0
9/13/2024 8:26	67605	WARW_T1	9	12	3	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/13/2024 8:26	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 8:27	15203	SFAR_T2	0	0	0	0	0	0	-0.62	-0.58	0	0	0	0	0	0
9/13/2024 8:28	67402	WAKE_T2	0	0	0	0	0	0	-0.4	-0.36	1	1	0	600	600	0
9/13/2024 8:29	60801	BUCK_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
9/13/2024 8:30	44801	EDAN_T2	55	173	118	0.4	0.61	0.21	-1.67	-1.61	0	0	0	0	0	0
9/13/2024 8:31	45501	DERR_T2	0	1	1	0	0.1	0.1	0.07	0.09	2	2	0	1800	1800	0
9/13/2024 8:34	54506	ENOL_T2	0	0	0	0	0	0	0.14	0.11	1	1	0	600	600	0
9/13/2024 8:34	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/13/2024 8:34	45501	DERR_T2	0	1	1	0	0.1	0.1	0.07	0.09	2	2	0	1800	1800	0
9/13/2024 8:34	44801	EDAN_T2	55	173	118	0.4	0.61	0.21	-1.67	-1.61	0	0	0	0	0	0
9/13/2024 8:35	63501	HEID_TBK1-2	49	47	-2	0.77	0.34	-0.43	-0.12	-0.12	2	2	0	1800	1800	0
9/13/2024 8:37	50501	MECH_T1	4	4	0	1.53	1.23	-0.3	0	0	0	0	0	0	0	0
9/13/2024 8:37	50502	MECH_T1	23	1	-22	0.25	2.8	2.55	-0.33	-0.28	2	2	0	2100	2100	0
9/13/2024 8:37	23403	HONE_T1	0	0	0	0	0	0	-0.76	-0.77	0	0	0	0	0	0
9/13/2024 8:40	15603	NSTR_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
9/13/2024 8:40	67002	STHI_T2	0	0	0	0	0	0	1.37	1.37	0	0	0	0	0	0
9/13/2024 8:40	15601	NSTR_T2	3	3	0	0.53	0.53	0	0	0	0	0	0	0	0	0
9/13/2024 8:40	54601	SUMM_T2	11	7	-4	0.34	0.3	-0.04	-1.8	-1.79	2	2	0	2100	2100	0
9/13/2024 8:41	67002	STHI_T2	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
9/13/2024 8:41	15604	NSTR_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
9/13/2024 8:42	67002	STHI_T2	0	0	0	0	0	0	1.37	1.37	0	0	0	0	0	0
9/13/2024 8:42	67001	STHI_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
9/13/2024 8:43	67503	WEWI_T2	1	1	0	8.6	8.5	-0.1	-0.07	-0.12	0	0	0	0	0	0
9/13/2024 8:43	24902	WHHA_T1	0	1	1	0	0	0	0.72	0.76	0	0	0	0	0	0
9/13/2024 8:44	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 8:45	45901	AUBU_T1	0	0	0	0	0	0	1.38	1.32	0	0	0	0	0	0
9/13/2024 8:45	10705	CATA_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
9/13/2024 8:45	45902	AUBU_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
9/13/2024 8:45	24902	WHHA_T1	1	0	-1	0.1	0	-0.1	0.72	0.76	0	0	0	0	0	0
9/13/2024 8:46	44801	EDAN_T2	132	175	43	0.44	0.61	0.17	0	0	0	0	0	0	0	0
9/13/2024 8:46	44802	EDAN_T2	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
9/13/2024 8:47	10705	CATA_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
9/13/2024 8:47	45902	AUBU_T1	1	1	0	0.3	1	0.7	-0.66	-0.67	1	1	0	600	600	0
9/13/2024 8:47	44801	EDAN_T2	132	175	43	0.44	0.61	0.17	0	0	0	0	0	0	0	0
9/13/2024 8:47	44802	EDAN_T2	0	0	0	0	0	0	-1.42	-1.42	0	0	0	0	0	0
9/13/2024 8:48	40902	JESH_T1	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
9/13/2024 8:48	44801	EDAN_T2	132	175	43	0.44	0.61	0.17	0	0	0	0	0	0	0	0
9/13/2024 8:48	44802	EDAN_T2	0	0	0	0	0	0	-1.42	-1.42	0	0	0	0	0	0
9/13/2024 8:48	40901	JESH_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/13/2024 8:53	40601	PIGR_T1	1	7	6	0.2	0.2	0	0	0	0	0	0	0	0	0
9/13/2024 8:53	40602	PIGR_T1	1	1	0	1.1	1.2	0.1	-0.54	-0.57	1	1	0	600	600	0
9/13/2024 8:55	41903	REED_T1	0	0	0	0	0	0	0.9	0.89	0	0	0	0	0	0
9/13/2024 8:56	56501	ROCK_T2	2	3	1	0.35	0.3	-0.05	-0.07	-0.05	0	0	0	0	0	0
9/13/2024 8:57	67002	STHI_T2	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
9/13/2024 8:58	56501	ROCK_T2	2	3	1	0.35	0.3	-0.05	-0.07	-0.05	0	0	0	0	0	0
9/13/2024 8:59	46001	BERW_T1	0	0	0	0	0	0	0.65	0.7	0	0	0	0	0	0
9/13/2024 8:59	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
9/13/2024 8:59	15703	TANN_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
9/13/2024 9:07	59301	MCAL_T1	3	5	2	0.57	0.36	-0.21	-1.69	-1.68	1	1	0	600	600	0
9/13/2024 9:07	12601	MACA_T1	0	0	0	0	0	0	0.75	0.77	0	0	0	0	0	0
9/13/2024 9:10	65901	SAKR_T2	1	1	0	8	8.5	0.5	-0.59	-0.61	1	1	0	600	600	0
9/13/2024 9:15	67503	WEWI_T2	1	1	0	8.6	8.9	0.3	-0.08	-0.08	0	0	0	0	0	0
9/13/2024 9:15	45902	AUBU_T1	1	1	0	1	1.2	0.2	-0.7	-0.78	1	1	0	600	600	0
9/13/2024 9:15	20401	ASHF_T2	0	12	12	0	1.17	1.17	0	0	0	0	0	0	0	0
9/13/2024 9:15	20403	ASHF_T2	2	12	10	0.25	0.36	0.11	0.44	0.49	0	0	0	0	0	0
9/13/2024 9:16	20403	ASHF_T2	2	12	10	0.25	0.36	0.11	0.44	0.49	0	0	0	0	0	0
9/13/2024 9:16	46004	BERW_T2	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
9/13/2024 9:16	20401	ASHF_T2	0	12	12	0	1.17	1.17	0	0	0	0	0	0	0	0
9/13/2024 9:16	11507	FREE_T2	0	0	0	0	0	0	0.8	0.81	0	0	0	0	0	0
9/13/2024 9:17	62106	ELAN_T1	0	0	0	0	0	0	1.12	0.8	0	0	0	0	0	0
9/13/2024 9:17	62102	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 9:18	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0.37	0.36	0	0	0	0	0	0
9/13/2024 9:18	45501	DERR_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/13/2024 9:18	62105	ELAN_T1	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
9/13/2024 9:18	62102	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 9:21	13001	NBET_T2	0	0	0	0	0	0	-0.77	-0.75	1	1	0	1200	1200	0
9/13/2024 9:22	13001	NBET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 9:22	46501	LOHA_T1	0	0	0	0	0	0	0.08	0.1	1	1	0	1200	1200	0
9/13/2024 9:22	46506	LOHA_T1	3	3	0	5.43	5.43	0	0	0	0	0	0	0	0	0
9/13/2024 9:22	46504	LOHA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/13/2024 9:24	14801	TREI_T2	0	5	5	0	0.4	0.4	0.49	0.48	0	0	0	0	0	0
9/13/2024 9:24	61102	BERK_T5	0	0	0	0	0	0	0.64	0.76	1	1	0	300	300	0
9/13/2024 9:25	66504	SMAN_T2	0	0	0	0	0	0	-0.55	-0.72	0	0	0	0	0	0
9/13/2024 9:25	14801	TREI_T2	0	5	5	0	0.4	0.4	0.49	0.48	0	0	0	0	0	0
9/13/2024 9:25	42201	WEN_T2	0	0	0	0	0	0	0.54	0.58	0	0	0	0	0	0
9/13/2024 9:25	44203	POIN_T2	0	0	0	0	0	0	0.71	0.57	1	1	0	900	900	0
9/13/2024 9:25	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 9:25	61102	BERK_T5	0	0	0	0	0	0	0.64	0.76	1	1	0	300	300	0
9/13/2024 9:25	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 9:26	61102	BERK_T5	0	0	0	0	0	0	1.29	1.53	2	2	0	600	600	0
9/13/2024 9:26	45802	HEGI_T2	2	11	9	0.1	0.61	0.51	1.21	1.11	0	0	0	0	0	0
9/13/2024 9:27	45802	HEGI_T2	2	11	9	0.1	0.61	0.51	1.21	1.11	0	0	0	0	0	0
9/13/2024 9:27	45902	AUBU_T1	1	1	0	1	1.2	0.2	-0.78	-0.71	1	1	0	600	600	0
9/13/2024 9:28	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 9:28	14802	TREI_T2	0	0	0	0	0	0	0.55	0.61	0	0	0	0	0	0
9/13/2024 9:28	14801	TREI_T2	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
9/13/2024 9:28	67605	WARW_T1	35	36	1	0.53	0.5	-0.03	-2.27	-2.12	0	0	0	0	0	0
9/13/2024 9:28	64602	LEOL_T1	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
9/13/2024 9:29	10805	CHHI_T2	1	1	0	7.6	7.9	0.3	-1.58	-1.06	2	2	0	1800	1800	0
9/13/2024 9:29	67605	WARW_T1	35	36	1	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
9/13/2024 9:29	14801	TREI_T2	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
9/13/2024 9:29	61102	BERK_T5	0	0	0	0	0	0	0.64	0.76	1	1	0	300	300	0
9/13/2024 9:29	14802	TREI_T2	0	0	0	0	0	0	1.1	1.22	0	0	0	0	0	0
9/13/2024 9:29	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 9:30	20401	ASHF_T2	10	9	-1	0.43	0.51	0.08	0	0	0	0	0	0	0	0
9/13/2024 9:30	61102	BERK_T5	0	0	0	0	0	0	0.64	0.76	1	1	0	300	300	0
9/13/2024 9:30	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 9:30	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 9:30	66505	SMAN_T2	0	0	0	0	0	0	0.28	1.04	2	1	-1	1500	900	-600
9/13/2024 9:30	20403	ASHF_T2	6	11	5	0.42	0.36	-0.06	0.49	0.27	0	0	0	0	0	0
9/13/2024 9:31	67605	WARW_T1	30	37	7	0.49	0.5	0.01	-1.13	-1.06	0	0	0	0	0	0
9/13/2024 9:31	67603	WARW_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/13/2024 9:34	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
9/13/2024 9:34	11405	FARM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 9:34	11404	FARM_T1	0	0	0	0	0	0	-0.31	-0.31	1	1	0	1200	1200	0
9/13/2024 9:34	63403	HONY_T2	0	0	0	0	0	0	0.08	0.08	1	1	0	600	600	0
9/13/2024 9:34	15702	TANN_T2	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
9/13/2024 9:34	61102	BERK_T5	0	0	0	0	0	0	0.64	0.76	1	1	0	300	300	0
9/13/2024 9:35	40101	HUNT_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
9/13/2024 9:36	51202	MTON_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
9/13/2024 9:36	63501	HEID_TBK1-2	34	48	14	0.4	0.43	0.03	0.02	-0.01	1	1	0	900	900	0
9/13/2024 9:37	63501	HEID_TBK1-2	34	48	14	0.4	0.43	0.03	-0.01	0.12	1	1	0	900	900	0
9/13/2024 9:38	47403	PENS_T1	1	1	0	1.3	2	0.7	0	0	0	0	0	0	0	0
9/13/2024 9:38	47401	PENS_T1	0	2	2	0	0.5	0.5	0.61	0.64	0	0	0	0	0	0
9/13/2024 9:38	51204	MTON_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
9/13/2024 9:39	61102	BERK_T5	0	0	0	0	0	0	0.76	0.71	1	1	0	300	300	0
9/13/2024 9:39	63501	HEID_TBK1-2	34	48	14	0.4	0.43	0.03	-0.01	0.12	1	1	0	900	900	0
9/13/2024 9:42	47401	PENS_T1	0	2	2	0	0.5	0.5	0.61	0.64	0	0	0	0	0	0
9/13/2024 9:42	47403	PENS_T1	1	1	0	1.3	2	0.7	0	0	0	0	0	0	0	0
9/13/2024 9:43	67503	WEWI_T2	1	1	0	8.9	8.7	-0.2	-0.07	-0.06	0	0	0	0	0	0
9/13/2024 9:43	24902	WHHA_T1	1	1	0	0.4	0	-0.4	0.78	0.78	0	0	0	0	0	0
9/13/2024 9:43	24901	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 9:43	12302	LANA_T2	0	0	0	0	0	0	-1.57	-1.55	2	2	0	1500	1500	0
9/13/2024 9:45	61102	BERK_T5	0	0	0	0	0	0	0.76	0.71	1	1	0	300	300	0
9/13/2024 9:45	61101	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 9:46	24902	WHHA_T1	0	1	1	0	0	0	0.78	0.78	0	0	0	0	0	0
9/13/2024 9:47	48302	ORWI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/13/2024 9:47	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 9:49	61301	EARL_T1	0	0	0	0	0	0	-1	-1	2	2	0	1800	1800	0
9/13/2024 9:49	40101	HUNT_T2	0	1	1	0	0.2	0.2	-0.54	-0.55	0	0	0	0	0	0
9/13/2024 9:52	52004	LING_T2	3	3	0	4	3.9	-0.1	0.42	0.41	0	0	0	0	0	0
9/13/2024 9:53	64904	MILL_T1	0	1	1	0	0	0	0.66	0.65	0	0	0	0	0	0
9/13/2024 9:53	52004	LING_T2	3	3	0	4	3.9	-0.1	0.84	0.82	0	0	0	0	0	0
9/13/2024 9:53	44801	EDAN_T2	111	132	21	0.43	0.5	0.07	-1.57	-1.53	0	0	0	0	0	0
9/13/2024 9:54	14401	SSLA_T1	2	3	1	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/13/2024 9:54	57403	SPAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/13/2024 9:54	14403	SSLA_T1	2	3	1	0.2	0.27	0.07	0.84	0.85	0	0	0	0	0	0
9/13/2024 9:54	14402	SSLA_T1	3	6	3	0.4	0.26	-0.14	0	0	0	0	0	0	0	0
9/13/2024 9:54	14404	SSLA_T1	6	6	0	0.33	0.32	-0.01	0.03	0.06	0	0	0	0	0	0
9/13/2024 9:54	57401	SPAN_T1	9	8	-1	0.33	0.45	0.12	-0.92	-0.82	1	1	0	600	600	0
9/13/2024 9:55	14404	SSLA_T1	6	6	0	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
9/13/2024 9:55	57401	SPAN_T1	9	8	-1	0.33	0.45	0.12	-0.92	-0.82	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/13/2024 9:55	14401	SSLA_T1	2	3	1	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/13/2024 9:55	14402	SSLA_T1	3	6	3	0.4	0.26	-0.14	0	0	0	0	0	0	0	0
9/13/2024 9:55	14403	SSLA_T1	2	3	1	0.2	0.27	0.07	0.84	0.85	0	0	0	0	0	0
9/13/2024 9:55	57403	SPAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/13/2024 9:56	57403	SPAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/13/2024 9:56	14404	SSLA_T1	6	6	0	0.33	0.32	-0.01	0.03	0.06	0	0	0	0	0	0
9/13/2024 9:56	14402	SSLA_T1	3	6	3	0.4	0.26	-0.14	0	0	0	0	0	0	0	0
9/13/2024 9:56	14401	SSLA_T1	2	3	1	0.1	0.17	0.07	-0.36	-0.37	0	0	0	0	0	0
9/13/2024 9:56	66502	SMAN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/13/2024 9:56	66501	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/13/2024 9:56	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 9:56	14403	SSLA_T1	2	3	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
9/13/2024 9:56	57401	SPAN_T1	9	8	-1	0.33	0.45	0.12	-0.92	-0.82	1	1	0	600	600	0
9/13/2024 9:58	57403	SPAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/13/2024 9:58	57401	SPAN_T1	9	8	-1	0.33	0.45	0.12	-0.92	-0.82	1	1	0	600	600	0
9/13/2024 9:59	66501	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/13/2024 9:59	66502	SMAN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/13/2024 9:59	66504	SMAN_T2	0	0	0	0	0	0	-0.17	-0.09	0	0	0	0	0	0
9/13/2024 10:00	53902	HALI_T2	3	1	-2	2	5.7	3.7	0	0	0	0	0	0	0	0
9/13/2024 10:00	59003	MIFF_T1	1	0	-1	0.1	0	-0.1	0.62	0.65	0	0	0	0	0	0
9/13/2024 10:00	11404	FARM_T1	0	0	0	0	0	0	-0.25	-0.23	1	1	0	1200	1200	0
9/13/2024 10:00	46602	LACR_T1	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
9/13/2024 10:00	67502	WEWI_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
9/13/2024 10:00	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 10:00	59002	MIFF_T1	5	5	0	0.58	0.48	-0.1	0	0	0	0	0	0	0	0
9/13/2024 10:00	53901	HALI_T2	1	1	0	0.7	0.6	-0.1	-1.54	-1.52	0	0	0	0	0	0
9/13/2024 10:00	67503	WEWI_T2	1	1	0	8.3	8.1	-0.2	-0.06	0.03	0	0	0	0	0	0
9/13/2024 10:00	66502	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/13/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
9/13/2024 10:00	60504	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 10:00	11402	FARM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-0.45	-0.38	0	0	0	0	0	0
9/13/2024 10:00	11405	FARM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/13/2024 10:00	40901	JESH_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/13/2024 10:00	48301	ORWI_T1	2	2	0	3.7	3.6	-0.1	-0.13	-0.11	1	1	0	900	900	0
9/13/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
9/13/2024 10:00	12006	HATF_T1	0	0	0	0	0	0	0.33	0.38	2	2	0	2400	2400	0
9/13/2024 10:00	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 10:00	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
9/13/2024 10:00	52004	LING_T2	2	3	1	5.7	4.13	-1.57	0.84	0.82	0	0	0	0	0	0
9/13/2024 10:00	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 10:00	54505	ENOL_T2	1	1	0	0.4	0.2	-0.2	-0.64	-0.64	1	1	0	600	600	0
9/13/2024 10:00	44801	EDAN_T2	128	127	-1	0.49	0.42	-0.07	-3.13	-3.07	0	0	0	0	0	0
9/13/2024 10:00	59001	MIFF_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
9/13/2024 10:00	52001	LING_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
9/13/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
9/13/2024 10:00	28805	LAKE_T1	0	1	1	0	0.2	0.2	-0.19	-0.18	0	0	0	0	0	0
9/13/2024 10:00	12601	MACA_T1	1	1	0	0.7	1	0.3	0.88	0.84	0	0	0	0	0	0
9/13/2024 10:00	52403	GRPA_T2	62	85	23	0.75	0.85	0.1	-0.07	-0.09	0	0	0	0	0	0
9/13/2024 10:00	53903	HALI_T2	2	2	0	1	1.05	0.05	-0.14	-0.08	0	0	0	0	0	0
9/13/2024 10:03	49804	UNIV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 10:03	49803	UNIV_T1	1	1	0	5.3	5.3	0	-2.17	-2.11	0	0	0	0	0	0
9/13/2024 10:07	12807	MICK_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/13/2024 10:07	12801	MICK_T1	0	0	0	0	0	0	-0.65	-0.62	1	1	0	600	600	0
9/13/2024 10:07	52004	LING_T2	2	3	1	5.7	4.13	-1.57	0.41	0.44	0	0	0	0	0	0
9/13/2024 10:08	28102	TWLA_T2	10	19	9	0.3	0.83	0.53	0.2	0.21	0	0	0	0	0	0
9/13/2024 10:08	64904	MILL_T1	0	0	0	0	0	0	0.65	0.67	0	0	0	0	0	0
9/13/2024 10:09	46501	LOHA_T1	1	0	-1	0.3	0	-0.3	-0.02	-0.04	1	1	0	1200	1200	0
9/13/2024 10:09	46506	LOHA_T1	3	3	0	5.3	5.23	-0.07	0	0	0	0	0	0	0	0
9/13/2024 10:09	13905	SEID_T1	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
9/13/2024 10:09	64802	MONE_T2	0	1	1	0	0.5	0.5	0.38	0.4	0	0	0	0	0	0
9/13/2024 10:09	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 10:09	64101	REFR_T1	0	5	5	0	0.5	0.5	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 10:09	57401	SPAN_T1	7	7	0	0.43	0.5	0.07	-1.63	-1.54	2	2	0	1200	1200	0
9/13/2024 10:10	57401	SPAN_T1	7	7	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
9/13/2024 10:10	65205	PRIN_T1	1	1	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
9/13/2024 10:10	64101	REFR_T1	0	5	5	0	0.5	0.5	-0.02	-0.02	0	0	0	0	0	0
9/13/2024 10:10	42201	SHEN_T2	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
9/13/2024 10:10	57403	SPAN_T1	0	1	1	0	0.1	0.1	0.08	0.11	0	0	0	0	0	0
9/13/2024 10:11	43302	WATS_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/13/2024 10:11	63602	LETO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 10:11	64101	REFR_T1	0	5	5	0	0.5	0.5	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 10:11	66502	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/13/2024 10:11	57403	SPAN_T1	0	1	1	0	0.1	0.1	0.08	0.11	0	0	0	0	0	0
9/13/2024 10:11	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
9/13/2024 10:11	63601	LETO_T1	2	3	1	0.5	0.37	-0.13	0.16	0.29	2	2	0	2100	2100	0
9/13/2024 10:11	57401	SPAN_T1	7	7	0	0.43	0.5	0.07	-0.82	-0.77	1	1	0	600	600	0
9/13/2024 10:11	66504	SMAN_T2	0	0	0	0	0	0	-0.09	-0.05	0	0	0	0	0	0
9/13/2024 10:11	15703	TANN_T2	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
9/13/2024 10:11	15702	TANN_T2	0	1	1	0	0.2	0.2	-0.64	-0.58	0	0	0	0	0	0
9/13/2024 10:11	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 10:11	43301	WATS_T2	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
9/13/2024 10:12	64101	REFR_T1	0	5	5	0	0.5	0.5	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 10:12	66502	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/13/2024 10:12	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
9/13/2024 10:12	66505	SMAN_T2	0	0	0	0	0	0	0.53	0.41	2	2	0	1500	1500	0
9/13/2024 10:13	20403	ASHF_T2	2	2	0	0.3	0.65	0.35	0.56	0.53	0	0	0	0	0	0
9/13/2024 10:13	57101	SPHI_T2	6	6	0	0.73	0.72	-0.01	0	0	0	0	0	0	0	0
9/13/2024 10:13	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 10:13	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 10:13	57106	SPHI_T2	3	3	0	0.97	0.97	0	0	0	0	0	0	0	0	0
9/13/2024 10:13	57104	SPHI_T2	3	2	-1	2.7	0.5	-2.2	-1.59	-1.58	1	1	0	900	900	0
9/13/2024 10:13	20401	ASHF_T2	6	5	-1	0.32	0.42	0.1	0	0	0	0	0	0	0	0
9/13/2024 10:13	57401	SPAN_T1	7	7	0	0.43	0.5	0.07	-0.82	-0.77	1	1	0	600	600	0
9/13/2024 10:14	42201	SHEN_T2	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
9/13/2024 10:14	63601	LETO_T1	2	3	1	0.5	0.37	-0.13	0.16	0.29	2	2	0	2100	2100	0
9/13/2024 10:14	53601	DALM_T2	1	1	0	0.1	0.7	0.6	-0.09	-0.1	1	1	0	900	900	0
9/13/2024 10:14	63602	LETO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 10:14	24902	WHHA_T1	1	1	0	0.1	0	-0.1	0.81	0.81	0	0	0	0	0	0
9/13/2024 10:14	43301	WATS_T2	1	2	1	0.8	0.5	-0.3	-0.58	-0.56	1	1	0	900	900	0
9/13/2024 10:14	43302	WATS_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/13/2024 10:15	43302	WATS_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/13/2024 10:15	20403	ASHF_T2	1	7	6	1.2	0.63	-0.57	0.56	0.53	0	0	0	0	0	0
9/13/2024 10:15	43304	WATS_T2	0	0	0	0	0	0	-0.89	-0.85	0	0	0	0	0	0
9/13/2024 10:15	20401	ASHF_T2	5	7	2	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
9/13/2024 10:15	43301	WATS_T2	1	2	1	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
9/13/2024 10:15	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 10:16	67502	WEWI_T2	1	2	1	0.4	0.6	0.2	-0.22	-0.2	0	0	0	0	0	0
9/13/2024 10:16	43302	WATS_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/13/2024 10:16	43301	WATS_T2	1	2	1	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
9/13/2024 10:16	61001	DONV_T1	1	1	0	0.8	0.9	0.1	-0.12	-0.04	0	0	0	0	0	0
9/13/2024 10:16	43304	WATS_T2	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
9/13/2024 10:16	67503	WEWI_T2	1	1	0	8	8.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 10:17	20403	ASHF_T2	1	7	6	1.2	0.63	-0.57	0.56	0.53	0	0	0	0	0	0
9/13/2024 10:17	43302	WATS_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/13/2024 10:17	43301	WATS_T2	1	2	1	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
9/13/2024 10:17	20401	ASHF_T2	5	7	2	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
9/13/2024 10:17	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 10:17	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 10:18	45902	AUBU_T1	1	1	0	1.3	1.4	0.1	-1.3	-1.38	2	2	0	1200	1200	0
9/13/2024 10:18	48302	ORWI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/13/2024 10:18	45501	DERR_T2	2	2	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
9/13/2024 10:18	45502	DERR_T2	0	0	0	0	0	0	0.3	0.2	0	0	0	0	0	0
9/13/2024 10:19	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.57	-0.55	0	0	0	0	0	0
9/13/2024 10:19	11507	FREE_T2	0	0	0	0	0	0	0.75	0.84	0	0	0	0	0	0
9/13/2024 10:19	41602	CLEV_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/13/2024 10:19	45901	AUBU_T1	0	0	0	0	0	0	1.62	1.51	0	0	0	0	0	0
9/13/2024 10:19	10801	CHHI_T1	0	0	0	0	0	0	-0.55	-0.53	1	1	0	900	900	0
9/13/2024 10:19	45902	AUBU_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
9/13/2024 10:20	63501	HEID_TBK1-2	35	35	0	0.52	0.4	-0.12	-0.14	-0.19	2	2	0	1800	1800	0
9/13/2024 10:20	13502	MCMI_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/13/2024 10:20	45902	AUBU_T1	1	1	0	1.3	1.4	0.1	-0.65	-0.69	1	1	0	600	600	0
9/13/2024 10:21	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.55	-0.51	0	0	0	0	0	0
9/13/2024 10:21	16402	MOPO_T1	0	0	0	0	0	0	0.84	0.83	0	0	0	0	0	0
9/13/2024 10:22	44502	HAMI_T2	1	1	0	1.6	1.8	0.2	-0.67	-0.55	0	0	0	0	0	0
9/13/2024 10:22	16402	MOPO_T1	0	0	0	0	0	0	0.84	0.83	0	0	0	0	0	0
9/13/2024 10:22	20601	GRWO_T2	9	9	0	0.53	0.25	-0.28	1.23	1.23	0	0	0	0	0	0
9/13/2024 10:22	25402	LAHA_T2	0	3	3	0	0.4	0.4	-0.36	-0.39	0	0	0	0	0	0
9/13/2024 10:23	44203	POIN_T2	0	3	3	0	1.67	1.67	0.86	0.72	1	1	0	900	900	0
9/13/2024 10:24	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 10:24	20403	ASHF_T2	1	7	6	1.2	0.63	-0.57	0.53	0.38	0	0	0	0	0	0
9/13/2024 10:24	20401	ASHF_T2	5	7	2	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
9/13/2024 10:24	13001	NBET_T2	0	0	0	0	0	0	-0.68	-0.67	1	1	0	1200	1200	0
9/13/2024 10:24	13002	NBET_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 10:25	66903	SHIL_T2	1	1	0	0.5	0.9	0.4	-0.76	-0.77	0	0	0	0	0	0
9/13/2024 10:25	13503	MCMI_T2	1	2	1	1	1.2	0.2	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 10:25	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 10:25	56501	ROCK_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
9/13/2024 10:25	13002	NBET_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 10:25	13001	NBET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 10:26	14404	SSLA_T1	3	6	3	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
9/13/2024 10:26	66903	SHIL_T2	1	1	0	0.5	0.9	0.4	-0.76	-0.77	0	0	0	0	0	0
9/13/2024 10:26	65001	NEFF_T2	0	0	0	0	0	0	-0.23	-0.29	1	1	0	1200	1200	0
9/13/2024 10:26	14402	SSLA_T1	4	6	2	0.23	0.4	0.17	0	0	0	0	0	0	0	0
9/13/2024 10:26	14401	SSLA_T1	1	1	0	0.3	0.4	0.1	-0.32	-0.28	0	0	0	0	0	0
9/13/2024 10:26	14403	SSLA_T1	3	3	0	0.17	0.43	0.26	0.83	0.88	0	0	0	0	0	0
9/13/2024 10:26	42601	TUSC_T1	0	0	0	0	0	0	0.48	0.37	3	3	0	2400	2400	0
9/13/2024 10:27	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 10:27	56501	ROCK_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
9/13/2024 10:27	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/13/2024 10:29	67503	WEWI_T2	1	1	0	8	8.1	0.1	-0.03	0.01	0	0	0	0	0	0
9/13/2024 10:29	67502	WEWI_T2	1	2	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/13/2024 10:29	46004	BERW_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/13/2024 10:30	24902	WHHA_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/13/2024 10:30	51102	CARL_T1	1	1	0	1.7	2.4	0.7	0	0	0	0	0	0	0	0
9/13/2024 10:30	67503	WEWI_T2	1	1	0	8.1	8	-0.1	0	0	0	0	0	0	0	0
9/13/2024 10:30	51101	CARL_T1	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
9/13/2024 10:30	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 10:30	24901	WHHA_T1	0	1	1	0	0.1	0.1	0.52	0.52	0	0	0	0	0	0
9/13/2024 10:30	67502	WEWI_T2	2	2	0	0.55	0.65	0.1	-0.2	-0.17	0	0	0	0	0	0
9/13/2024 10:31	67605	WARW_T1	18	17	-1	0.51	0.54	0.03	-3.09	-3.03	0	0	0	0	0	0
9/13/2024 10:31	45902	AUBU_T1	1	1	0	1.4	1.6	0.2	-0.69	-0.66	1	1	0	600	600	0
9/13/2024 10:31	67603	WARW_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/13/2024 10:32	67605	WARW_T1	18	17	-1	0.51	0.54	0.03	0	0	0	0	0	0	0	0
9/13/2024 10:32	67603	WARW_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/13/2024 10:34	45902	AUBU_T1	1	1	0	1.4	1.6	0.2	-0.69	-0.66	1	1	0	600	600	0
9/13/2024 10:34	45901	AUBU_T1	0	0	0	0	0	0	1.51	1.49	0	0	0	0	0	0
9/13/2024 10:36	64305	LINC_T1	0	1	1	0	0.2	0.2	0.12	0.02	0	0	0	0	0	0
9/13/2024 10:36	42302	MOWR_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
9/13/2024 10:37	20601	GRWO_T2	7	15	8	0.21	0.33	0.12	1.23	1.27	0	0	0	0	0	0
9/13/2024 10:38	56501	ROCK_T2	0	1	1	0	0	0	0.03	0.03	0	0	0	0	0	0
9/13/2024 10:39	41902	REED_T1	1	0	-1	0.5	0	-0.5	1.08	1.12	0	0	0	0	0	0
9/13/2024 10:39	64501	LAVI_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
9/13/2024 10:39	64503	LAVI_T1	0	0	0	0	0	0	-1.59	-1.58	2	2	0	2100	2100	0
9/13/2024 10:40	42601	TUSC_T1	0	0	0	0	0	0	0.37	0.48	3	3	0	2400	2400	0
9/13/2024 10:41	41902	REED_T1	1	0	-1	0.5	0	-0.5	1.08	1.12	0	0	0	0	0	0
9/13/2024 10:41	53102	WTWN_T1	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
9/13/2024 10:41	57205	ROSS_T1	2	1	-1	4.8	1	-3.8	0.4	0.37	0	0	0	0	0	0
9/13/2024 10:42	56501	ROCK_T2	0	1	1	0	0	0	0.03	0.03	0	0	0	0	0	0
9/13/2024 10:43	56501	ROCK_T2	0	1	1	0	0	0	0.03	0.03	0	0	0	0	0	0
9/13/2024 10:43	57403	SPAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/13/2024 10:43	53102	WTWN_T1	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
9/13/2024 10:43	57401	SPAN_T1	6	6	0	0.55	0.23	-0.32	-0.69	-0.69	1	1	0	600	600	0
9/13/2024 10:44	46001	BERW_T1	0	1	1	0	0.4	0.4	0.86	0.75	0	0	0	0	0	0
9/13/2024 10:44	66504	SMAN_T2	0	0	0	0	0	0	-0.34	-0.22	0	0	0	0	0	0
9/13/2024 10:44	24902	WHHA_T1	1	1	0	0.3	0.3	0	0.8	0.81	0	0	0	0	0	0
9/13/2024 10:44	42201	SHEN_T2	0	0	0	0	0	0	0.61	0.63	0	0	0	0	0	0
9/13/2024 10:44	24901	WHHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 10:44	67603	WARW_T1	2	2	0	0.2	0.25	0.05	0.09	0.17	0	0	0	0	0	0
9/13/2024 10:44	66501	SMAN_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/13/2024 10:44	67605	WARW_T1	18	17	-1	0.51	0.54	0.03	0	0	0	0	0	0	0	0
9/13/2024 10:44	66502	SMAN_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/13/2024 10:45	16101	BING_T2	1	2	1	0.2	0.2	0	0.46	0.5	0	0	0	0	0	0
9/13/2024 10:45	16102	BING_T2	2	6	4	0.3	0.3	0	0.09	0.12	1	1	0	1200	1200	0
9/13/2024 10:45	45501	DERR_T2	1	1	0	0.3	1.2	0.9	0.3	0.4	2	2	0	1800	1800	0
9/13/2024 10:46	62105	ELAN_T1	0	1	1	0	0.1	0.1	0.99	0.97	0	0	0	0	0	0
9/13/2024 10:46	62102	ELAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/13/2024 10:46	61801	EELI_T2	0	0	0	0	0	0	-0.46	-0.44	1	1	0	600	600	0
9/13/2024 10:47	40201	BEGA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/13/2024 10:48	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 10:48	45501	DERR_T2	1	1	0	0.3	1.2	0.9	0.3	0.4	2	2	0	1800	1800	0
9/13/2024 10:49	53501	EVIL_T2	2	2	0	0.45	0.25	-0.2	-0.01	-0.01	2	2	0	1500	1500	0
9/13/2024 10:49	52004	LING_T2	3	3	0	4.1	4.1	0	0.39	0.42	0	0	0	0	0	0
9/13/2024 10:50	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 10:50	55002	NEWP_T1	6	7	1	1.13	0.96	-0.17	0	0	0	0	0	0	0	0
9/13/2024 10:50	53501	EVIL_T2	2	2	0	0.45	0.25	-0.2	-0.01	-0.01	2	2	0	1500	1500	0
9/13/2024 10:51	25502	MADI_T1	2	1	-1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
9/13/2024 10:51	25501	MADI_T1	4	3	-1	0.53	0.57	0.04	0	0	0	0	0	0	0	0
9/13/2024 10:51	25503	MADI_T1	147	141	-6	0.52	0.45	-0.07	-0.88	-0.92	0	0	0	0	0	0
9/13/2024 10:51	67603	WARW_T1	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
9/13/2024 10:51	67605	WARW_T1	17	15	-2	0.52	0.43	-0.09	-1.01	-1.01	0	0	0	0	0	0
9/13/2024 10:55	57401	SPAN_T1	3	7	4	0.17	0.24	0.07	-0.69	-0.74	1	1	0	600	600	0
9/13/2024 10:55	57403	SPAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/13/2024 10:57	42201	SHEN_T2	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
9/13/2024 10:58	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 10:58	60701	BREC_T1	0	0	0	0	0	0	-0.39	-0.38	2	2	0	1200	1200	0
9/13/2024 10:59	10705	CATA_T2	1	1	0	0.6	1	0.4	0.26	0.27	0	0	0	0	0	0
9/13/2024 10:59	60701	BREC_T1	0	0	0	0	0	0	-0.39	-0.38	2	2	0	1200	1200	0
9/13/2024 11:00	67605	WARW_T1	12	14	2	0.45	0.48	0.03	-1.01	-0.99	0	0	0	0	0	0
9/13/2024 11:00	67603	WARW_T1	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/13/2024 11:02	20403	ASHF_T2	9	3	-6	0.62	0.8	0.18	0.55	0.57	0	0	0	0	0	0
9/13/2024 11:02	44802	EDAN_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
9/13/2024 11:02	60701	BREC_T1	0	0	0	0	0	0	-0.39	-0.38	2	2	0	1200	1200	0
9/13/2024 11:02	20401	ASHF_T2	6	3	-3	0.3	0.45	0.15	0	0	0	0	0	0	0	0
9/13/2024 11:02	44801	EDAN_T2	120	82	-38	0.36	0.42	0.06	0	0	0	0	0	0	0	0
9/13/2024 11:03	13101	NHAM_T1	0	1	1	0	0	0	-1.62	-2	2	2	0	2400	2400	0
9/13/2024 11:03	60701	BREC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 11:04	44802	EDAN_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
9/13/2024 11:04	44801	EDAN_T2	120	82	-38	0.36	0.42	0.06	0	0	0	0	0	0	0	0
9/13/2024 11:05	44801	EDAN_T2	120	82	-38	0.36	0.42	0.06	0	0	0	0	0	0	0	0
9/13/2024 11:05	44802	EDAN_T2	0	0	0	0	0	0	-0.97	-0.95	0	0	0	0	0	0
9/13/2024 11:05	12701	MACU_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
9/13/2024 11:06	44801	EDAN_T2	120	82	-38	0.36	0.42	0.06	-1.5	-1.49	0	0	0	0	0	0
9/13/2024 11:08	12701	MACU_T1	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
9/13/2024 11:08	13001	NBET_T2	0	0	0	0	0	0	-0.66	-0.65	1	1	0	1200	1200	0
9/13/2024 11:08	20201	JERM_T1	0	0	0	0	0	0	-0.34	-0.32	2	2	0	2400	2400	0
9/13/2024 11:10	14403	SSLA_T1	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
9/13/2024 11:10	14404	SSLA_T1	5	5	0	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
9/13/2024 11:10	14402	SSLA_T1	6	5	-1	0.33	0.26	-0.07	0	0	0	0	0	0	0	0
9/13/2024 11:10	13704	SCHN_T2	1	0	-1	0.1	0	-0.1	-0.1	0.05	0	0	0	0	0	0
9/13/2024 11:10	14401	SSLA_T1	1	1	0	0.4	0.3	-0.1	-0.16	-0.26	0	0	0	0	0	0
9/13/2024 11:11	65904	SAKR_T2	0	0	0	0	0	0	-1.63	-1.59	2	2	0	900	900	0
9/13/2024 11:11	65901	SAKR_T2	1	1	0	7.6	7.2	-0.4	0	0	0	0	0	0	0	0
9/13/2024 11:12	57401	SPAN_T1	5	7	2	0.26	0.37	0.11	-0.74	-0.74	1	1	0	600	600	0
9/13/2024 11:12	57403	SPAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/13/2024 11:12	55105	WERT_T1	0	0	0	0	0	0	-0.27	-0.22	1	1	0	900	900	0
9/13/2024 11:12	25603	ARRO_T1	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
9/13/2024 11:13	64501	LAVI_T1	2	1	-1	0.1	0.1	0	-0.08	-0.09	0	0	0	0	0	0
9/13/2024 11:14	67803	WLAN_T1	0	0	0	0	0	0	-0.76	-0.72	0	0	0	0	0	0
9/13/2024 11:14	67804	WLAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/13/2024 11:14	25603	ARRO_T1	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
9/13/2024 11:15	16102	BING_T2	5	5	0	0.3	0.32	0.02	0	0	0	0	0	0	0	0
9/13/2024 11:15	11102	EGYP_T1	3	3	0	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
9/13/2024 11:15	16103	BING_T2	0	0	0	0	0	0	-0.59	-0.57	2	2	0	1500	1500	0
9/13/2024 11:15	11101	EGYP_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/13/2024 11:15	11104	EGYP_T1	0	0	0	0	0	0	0.76	0.8	0	0	0	0	0	0
9/13/2024 11:15	16101	BING_T2	1	2	1	0.2	0.65	0.45	0	0	0	0	0	0	0	0
9/13/2024 11:16	11101	EGYP_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/13/2024 11:16	11104	EGYP_T1	0	0	0	0	0	0	1.52	1.6	0	0	0	0	0	0
9/13/2024 11:16	11102	EGYP_T1	3	3	0	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
9/13/2024 11:16	66501	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/13/2024 11:16	66502	SMAN_T2	1	1	0	0.2	0.4	0.2	0.59	0.49	0	0	0	0	0	0
9/13/2024 11:16	46001	BERW_T1	1	1	0	0.5	0.2	-0.3	0.79	0.75	0	0	0	0	0	0
9/13/2024 11:16	66505	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/13/2024 11:18	63304	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 11:18	46001	BERW_T1	1	1	0	0.5	0.2	-0.3	0.79	0.75	0	0	0	0	0	0
9/13/2024 11:18	63306	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 11:18	63303	GREE_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/13/2024 11:18	63302	GREE_T1	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
9/13/2024 11:18	63305	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 11:19	63403	HONY_T2	0	0	0	0	0	0	0.16	0.14	1	1	0	600	600	0
9/13/2024 11:20	44505	HAMI_T2	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
9/13/2024 11:20	44502	HAMI_T2	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
9/13/2024 11:21	64203	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 11:21	64204	KINZ_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
9/13/2024 11:21	64201	KINZ_T1	0	0	0	0	0	0	-0.16	0.08	4	4	0	2100	2100	0
9/13/2024 11:22	56503	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 11:22	58401	MORO_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
9/13/2024 11:22	56501	ROCK_T2	1	1	0	0.6	0.1	-0.5	0.08	0.13	0	0	0	0	0	0
9/13/2024 11:23	44202	POIN_T2	0	0	0	0	0	0	-0.58	-0.58	1	1	0	1200	1200	0
9/13/2024 11:23	44502	HAMI_T2	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
9/13/2024 11:23	47101	MARL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 11:23	47104	MARL_T1	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
9/13/2024 11:23	64203	KINZ_T1	0	1	1	0	0	0	0.3	0.24	3	3	0	2100	2100	0
9/13/2024 11:23	64204	KINZ_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
9/13/2024 11:23	44505	HAMI_T2	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
9/13/2024 11:27	45802	HEGI_T2	34	44	10	0.53	0.99	0.46	0.98	1.19	0	0	0	0	0	0
9/13/2024 11:28	12302	LANA_T2	0	0	0	0	0	0	-1.38	-1.39	2	2	0	1500	1500	0
9/13/2024 11:30	60701	BREC_T1	0	0	0	0	0	0	-0.38	-0.34	2	2	0	1200	1200	0
9/13/2024 11:31	67502	WEWI_T2	4	8	4	0.53	0.54	0.01	0	0	0	0	0	0	0	0
9/13/2024 11:31	60101	COCA_T1	0	1	1	0	0.3	0.3	0.64	0.58	0	0	0	0	0	0
9/13/2024 11:31	60701	BREC_T1	0	0	0	0	0	0	-0.38	-0.34	2	2	0	1200	1200	0
9/13/2024 11:31	67503	WEWI_T2	1	1	0	8.1	8.1	0	-0.05	0.19	0	0	0	0	0	0
9/13/2024 11:33	67502	WEWI_T2	4	8	4	0.53	0.54	0.01	0	0	0	0	0	0	0	0
9/13/2024 11:33	63401	HONY_T1	0	0	0	0	0	0	0.16	0.18	1	1	0	600	600	0
9/13/2024 11:33	60101	COCA_T1	0	1	1	0	0.3	0.3	1.28	1.17	0	0	0	0	0	0
9/13/2024 11:33	67503	WEWI_T2	1	1	0	8.1	8.1	0	-0.03	0.1	0	0	0	0	0	0
9/13/2024 11:33	40201	BEGA_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/13/2024 11:35	21204	ECAR_T2	1	1	0	0	0	0	-0.56	-0.59	0	0	0	0	0	0
9/13/2024 11:35	21206	ECAR_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
9/13/2024 11:37	64902	MILL_T2	0	0	0	0	0	0	-0.92	-0.83	1	1	0	900	900	0
9/13/2024 11:38	47101	MARL_T1	0	1	1	0	0.2	0.2	-0.13	-0.07	0	0	0	0	0	0
9/13/2024 11:38	51202	MTON_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
9/13/2024 11:38	51204	MTON_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
9/13/2024 11:39	52501	PROG_T1	0	0	0	0	0	0	0.26	0.32	1	1	0	300	300	0
9/13/2024 11:40	50105	HARR_T3	6	6	0	6.48	6.6	0.12	0	0	0	0	0	0	0	0
9/13/2024 11:40	50107	HARR_T3	1	1	0	7.7	7	-0.7	0	0	0	0	0	0	0	0
9/13/2024 11:50	14402	SSLA_T1	6	3	-3	0.28	0.4	0.12	0	0	0	0	0	0	0	0
9/13/2024 11:50	14403	SSLA_T1	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
9/13/2024 11:50	14401	SSLA_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/13/2024 11:50	14404	SSLA_T1	3	4	1	0.37	0.23	-0.14	0.45	0.53	0	0	0	0	0	0
9/13/2024 11:51	67804	WLAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/13/2024 11:51	44801	EDAN_T2	66	60	-6	0.47	0.48	0.01	-1.44	-1.46	0	0	0	0	0	0
9/13/2024 11:51	60201	ATGL_T2	0	0	0	0	0	0	0.09	0.02	0	0	0	0	0	0
9/13/2024 11:51	55002	NEWP_T1	7	4	-3	0.73	1.2	0.47	0	0	0	0	0	0	0	0
9/13/2024 11:51	24901	WHHA_T1	1	1	0	0.4	0.4	0	0.56	0.54	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/13/2024 11:51	24902	WHHA_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/13/2024 11:51	66502	SMAN_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
9/13/2024 11:51	40601	PIGR_T1	5	4	-1	0.32	0.35	0.03	0	0	0	0	0	0	0	0
9/13/2024 11:51	40602	PIGR_T1	1	1	0	2	2.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 11:51	67803	WLAN_T1	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
9/13/2024 11:51	66505	SMAN_T2	1	1	0	0.3	1.3	1	0	0	0	0	0	0	0	0
9/13/2024 11:51	66501	SMAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/13/2024 11:51	66504	SMAN_T2	0	0	0	0	0	0	-0.01	0.06	0	0	0	0	0	0
9/13/2024 11:54	53601	DALM_T2	1	1	0	0.4	0.5	0.1	-0.26	-0.27	1	1	0	900	900	0
9/13/2024 11:55	54201	PENN_T1	37	12	-25	0.37	0.7	0.33	-0.7	-0.77	0	0	0	0	0	0
9/13/2024 11:55	56501	ROCK_T2	1	2	1	0.1	0.2	0.1	0.12	0.18	0	0	0	0	0	0
9/13/2024 11:55	56503	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/13/2024 11:55	54203	PENN_T1	21	20	-1	0.73	0.67	-0.06	0	0	0	0	0	0	0	0
9/13/2024 11:56	56503	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/13/2024 11:56	56501	ROCK_T2	1	2	1	0.1	0.2	0.1	0.25	0.36	0	0	0	0	0	0
9/13/2024 11:57	56504	ROCK_T2	0	0	0	0	0	0	0.06	0.14	0	0	0	0	0	0
9/13/2024 11:57	56503	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/13/2024 11:57	56501	ROCK_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/13/2024 11:58	43304	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 11:58	43301	WATS_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/13/2024 11:59	14801	TREI_T2	1	1	0	1.2	1.2	0	0.61	0.6	0	0	0	0	0	0
9/13/2024 11:59	56503	ROCK_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/13/2024 11:59	56501	ROCK_T2	1	2	1	0.1	0.2	0.1	0.12	0.18	0	0	0	0	0	0
9/13/2024 11:59	14802	TREI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/13/2024 12:00	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 12:00	43304	WATS_T2	1	0	-1	0.2	0	-0.2	-0.35	-0.31	0	0	0	0	0	0
9/13/2024 12:00	43302	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 12:00	43301	WATS_T2	2	2	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/13/2024 12:01	60803	BUCK_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 12:01	60801	BUCK_T1	0	5	5	0	0.28	0.28	-0.44	-0.67	1	1	0	600	600	0
9/13/2024 12:01	67801	WLAN_T1	0	1	1	0	0	0	0.56	0.53	0	0	0	0	0	0
9/13/2024 12:03	60801	BUCK_T1	0	5	5	0	0.28	0.28	-0.44	-0.67	1	1	0	600	600	0
9/13/2024 12:03	60803	BUCK_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 12:04	23403	HONE_T1	0	2	2	0	0.1	0.1	-0.55	-0.53	0	0	0	0	0	0
9/13/2024 12:04	14203	EALL_T1	2	2	0	0.15	0.4	0.25	0.19	0.32	1	1	0	1200	1200	0
9/13/2024 12:05	60102	COCA_T1	0	0	0	0	0	0	-0.76	-0.71	3	3	0	2100	2100	0
9/13/2024 12:05	60101	COCA_T1	1	1	0	0.3	0.2	-0.1	1.07	1.13	0	0	0	0	0	0
9/13/2024 12:06	60101	COCA_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/13/2024 12:06	14201	EALL_T1	0	0	0	0	0	0	0.87	0.88	0	0	0	0	0	0
9/13/2024 12:06	14203	EALL_T1	2	2	0	0.15	0.4	0.25	0	0	0	0	0	0	0	0
9/13/2024 12:07	58402	MORO_T1	0	0	0	0	0	0	-0.06	-0.01	2	2	0	1500	1500	0
9/13/2024 12:07	47104	MARL_T1	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
9/13/2024 12:07	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 12:07	47101	MARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/13/2024 12:09	58402	MORO_T1	0	0	0	0	0	0	-0.06	-0.01	2	2	0	1500	1500	0
9/13/2024 12:10	64101	REFR_T1	1	2	1	0.4	0.7	0.3	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 12:11	64101	REFR_T1	1	2	1	0.4	0.7	0.3	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 12:13	41902	REED_T1	1	0	-1	2.2	0	-2.2	0	0	0	0	0	0	0	0
9/13/2024 12:13	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 12:13	67401	WAKE_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/13/2024 12:13	67402	WAKE_T2	0	0	0	0	0	0	-0.19	-0.16	1	1	0	600	600	0
9/13/2024 12:14	16302	ALPA_T2	1	2	1	0.2	0.15	-0.05	-0.25	-0.26	0	0	0	0	0	0
9/13/2024 12:16	16302	ALPA_T2	1	1	0	0.2	0.1	-0.1	-0.25	-0.26	0	0	0	0	0	0
9/13/2024 12:17	16302	ALPA_T2	1	1	0	0.2	0.1	-0.1	-0.25	-0.26	0	0	0	0	0	0
9/13/2024 12:17	40201	BEGA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/13/2024 12:18	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.37	0	0	0	0	0	0
9/13/2024 12:21	13001	NBET_T2	0	0	0	0	0	0	-0.56	-0.57	1	1	0	1200	1200	0
9/13/2024 12:26	64902	MILL_T2	0	0	0	0	0	0	-0.88	-0.21	1	1	0	900	900	0
9/13/2024 12:27	57401	SPAN_T1	3	4	1	0.53	0.38	-0.15	-0.67	-0.66	1	1	0	600	600	0
9/13/2024 12:27	57403	SPAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/13/2024 12:28	26401	INOR_T1	5	5	0	2.2	2.06	-0.14	0	0	0	0	0	0	0	0
9/13/2024 12:28	26402	INOR_T1	0	0	0	0	0	0	-0.83	-0.78	1	1	0	600	600	0
9/13/2024 12:31	66502	SMAN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/13/2024 12:31	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 12:31	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/13/2024 12:33	44801	EDAN_T2	53	41	-12	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
9/13/2024 12:33	44802	EDAN_T2	0	0	0	0	0	0	-0.38	-0.35	0	0	0	0	0	0
9/13/2024 12:34	55002	NEWP_T1	10	9	-1	0.69	0.64	-0.05	0	0	0	0	0	0	0	0
9/13/2024 12:34	55001	NEWP_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
9/13/2024 12:34	67605	WARW_T1	3	1	-2	0.57	1.4	0.83	-0.9	-0.9	0	0	0	0	0	0
9/13/2024 12:34	67603	WARW_T1	2	0	-2	8.25	0	-8.25	0	0	0	0	0	0	0	0
9/13/2024 12:35	60101	COCA_T1	0	1	1	0	0.2	0.2	1.29	1.41	0	0	0	0	0	0
9/13/2024 12:36	63501	HEID_TBK1-2	49	48	-1	0.83	0.85	0.02	-0.01	0.05	1	1	0	900	900	0
9/13/2024 12:37	60101	COCA_T1	0	1	1	0	0.2	0.2	0.71	0.69	0	0	0	0	0	0
9/13/2024 12:37	44801	EDAN_T2	53	41	-12	0.43	0.4	-0.03	-2.9	-2.85	0	0	0	0	0	0
9/13/2024 12:37	63501	HEID_TBK1-2	49	48	-1	0.83	0.85	0.02	0.05	0.06	1	1	0	900	900	0
9/13/2024 12:41	56504	ROCK_T2	0	0	0	0	0	0	0.13	0.06	0	0	0	0	0	0
9/13/2024 12:41	64101	REFR_T1	2	18	16	0.45	0.32	-0.13	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 12:41	56501	ROCK_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/13/2024 12:41	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/13/2024 12:42	56501	ROCK_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/13/2024 12:42	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/13/2024 12:42	56504	ROCK_T2	0	0	0	0	0	0	0.26	0.13	0	0	0	0	0	0
9/13/2024 12:43	56504	ROCK_T2	0	0	0	0	0	0	0.26	0.13	0	0	0	0	0	0
9/13/2024 12:43	60101	COCA_T1	0	1	1	0	0.2	0.2	0.71	0.69	0	0	0	0	0	0
9/13/2024 12:43	41903	REED_T1	0	0	0	0	0	0	2.09	2.13	0	0	0	0	0	0
9/13/2024 12:43	24902	WHHA_T1	1	2	1	0.3	0.8	0.5	0.82	0.82	0	0	0	0	0	0
9/13/2024 12:43	56503	ROCK_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/13/2024 12:43	24901	WHHA_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
9/13/2024 12:43	56501	ROCK_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/13/2024 12:43	41902	REED_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/13/2024 12:44	64101	REFR_T1	2	18	16	0.45	0.32	-0.13	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 12:45	67703	WERN_T2	1	1	0	0.3	0.4	0.1	0.15	0.17	1	1	0	900	900	0
9/13/2024 12:45	67702	WERN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/13/2024 12:46	11102	EGYP_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/13/2024 12:46	11104	EGYP_T1	0	0	0	0	0	0	0.86	0.9	0	0	0	0	0	0
9/13/2024 12:47	11104	EGYP_T1	0	0	0	0	0	0	1.72	1.79	0	0	0	0	0	0
9/13/2024 12:47	11102	EGYP_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/13/2024 12:51	63501	HEID_TBK1-2	48	47	-1	0.92	0.83	-0.09	0.05	0.06	1	1	0	900	900	0
9/13/2024 12:52	40901	JESH_T1	1	1	0	1.8	1.2	-0.6	0	0	0	0	0	0	0	0
9/13/2024 12:52	40902	JESH_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/13/2024 12:56	56504	ROCK_T2	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
9/13/2024 12:56	42802	SELI_T1	0	0	0	0	0	0	-0.7	-0.64	1	1	0	900	900	0
9/13/2024 12:56	56501	ROCK_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/13/2024 12:58	42802	SELI_T1	0	0	0	0	0	0	-0.7	-0.64	1	1	0	900	900	0
9/13/2024 12:58	56504	ROCK_T2	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
9/13/2024 12:58	56501	ROCK_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/13/2024 12:59	52202	DEVO_T2	0	0	0	0	0	0	0.41	0.33	0	0	0	0	0	0
9/13/2024 12:59	52204	DEVO_T2	5	5	0	1.24	0.86	-0.38	0	0	0	0	0	0	0	0
9/13/2024 13:00	67602	WARW_T2	0	0	0	0	0	0	0.41	0.44	1	1	0	300	300	0
9/13/2024 13:00	42802	SELI_T1	0	0	0	0	0	0	-2.79	-2.55	4	4	0	3600	3600	0
9/13/2024 13:00	15703	TANN_T2	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
9/13/2024 13:00	15702	TANN_T2	1	0	-1	0.2	0	-0.2	-0.02	-0.18	0	0	0	0	0	0
9/13/2024 13:01	11104	EGYP_T1	0	0	0	0	0	0	0.9	0.91	0	0	0	0	0	0
9/13/2024 13:01	45602	WOOL_T1	1	2	1	0.5	0.3	-0.2	0.78	0.82	0	0	0	0	0	0
9/13/2024 13:01	11102	EGYP_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
9/13/2024 13:02	67602	WARW_T2	0	0	0	0	0	0	0.83	0.88	2	2	0	600	600	0
9/13/2024 13:02	53901	HALI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/13/2024 13:02	67503	WEWI_T2	1	1	0	7.8	7.6	-0.2	0.24	0.25	0	0	0	0	0	0
9/13/2024 13:02	62604	ENGL_T1	0	0	0	0	0	0	-0.42	-0.35	1	1	0	600	600	0
9/13/2024 13:02	67502	WEWI_T2	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
9/13/2024 13:02	53902	HALI_T2	3	3	0	2.03	2.3	0.27	-0.78	-0.72	0	0	0	0	0	0
9/13/2024 13:02	53903	HALI_T2	2	5	3	0.8	0.46	-0.34	0	0	0	0	0	0	0	0
9/13/2024 13:03	11102	EGYP_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
9/13/2024 13:03	11104	EGYP_T1	0	0	0	0	0	0	1.79	1.82	0	0	0	0	0	0
9/13/2024 13:03	44801	EDAN_T2	25	23	-2	0.39	0.46	0.07	-1.43	-1.44	0	0	0	0	0	0
9/13/2024 13:03	52204	DEVO_T2	5	5	0	0.86	0.76	-0.1	0	0	0	0	0	0	0	0
9/13/2024 13:03	52202	DEVO_T2	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
9/13/2024 13:04	40901	JESH_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
9/13/2024 13:04	62604	ENGL_T1	0	0	0	0	0	0	-0.85	-0.71	2	2	0	1200	1200	0
9/13/2024 13:04	40902	JESH_T1	1	1	0	0.2	0.4	0.2	-0.91	-0.81	1	1	0	600	600	0
9/13/2024 13:04	67702	WERN_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/13/2024 13:04	67703	WERN_T2	1	1	0	0.4	0.3	-0.1	0.17	0.18	1	1	0	900	900	0
9/13/2024 13:05	46506	LOHA_T1	4	3	-1	3.63	4.43	0.8	0	0	0	0	0	0	0	0
9/13/2024 13:05	46501	LOHA_T1	0	0	0	0	0	0	0.2	0.21	1	1	0	1200	1200	0
9/13/2024 13:05	46503	LOHA_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/13/2024 13:05	62604	ENGL_T1	0	0	0	0	0	0	-0.85	-0.71	2	2	0	1200	1200	0
9/13/2024 13:05	40902	JESH_T1	1	1	0	0.2	0.4	0.2	-0.91	-0.81	1	1	0	600	600	0
9/13/2024 13:05	40901	JESH_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
9/13/2024 13:06	44802	EDAN_T2	0	0	0	0	0	0	-0.33	-0.37	0	0	0	0	0	0
9/13/2024 13:06	44801	EDAN_T2	25	23	-2	0.39	0.46	0.07	0	0	0	0	0	0	0	0
9/13/2024 13:07	46501	LOHA_T1	0	0	0	0	0	0	0.42	0.43	2	2	0	2400	2400	0
9/13/2024 13:07	46503	LOHA_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/13/2024 13:07	46506	LOHA_T1	4	3	-1	3.63	4.43	0.8	0	0	0	0	0	0	0	0
9/13/2024 13:08	40901	JESH_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
9/13/2024 13:08	42802	SELI_T1	0	0	0	0	0	0	-0.64	-0.7	1	1	0	900	900	0
9/13/2024 13:08	12604	MACA_T1	0	1	1	0	0.1	0.1	0.63	0.66	0	0	0	0	0	0
9/13/2024 13:08	40902	JESH_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/13/2024 13:08	12601	MACA_T1	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
9/13/2024 13:09	12202	FOGE_T2	0	2	2	0	1.45	1.45	0	0	1	1	0	600	600	0
9/13/2024 13:09	42902	MIDD_T2	1	0	-1	0.1	0	-0.1	-0.01	-0.05	1	1	0	600	600	0
9/13/2024 13:09	43802	SWIL_T1	0	1	1	0	0.2	0.2	-0.11	0.14	1	1	0	600	600	0
9/13/2024 13:09	43801	SWIL_T1	1	5	4	6.3	1.16	-5.14	0	0	0	0	0	0	0	0
9/13/2024 13:10	14308	SUMN_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
9/13/2024 13:10	14303	SUMN_T1	6	5	-1	4.12	5.8	1.68	0	0	0	0	0	0	0	0
9/13/2024 13:11	14702	TREX_T2	0	0	0	0	0	0	1.07	1.15	0	0	0	0	0	0
9/13/2024 13:11	16203	POFA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/13/2024 13:11	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 13:12	56504	ROCK_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
9/13/2024 13:12	56501	ROCK_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/13/2024 13:13	12202	FOGE_T2	0	2	2	0	1.45	1.45	0	0	1	1	0	600	600	0
9/13/2024 13:13	45802	HEGI_T2	28	0	-28	0.45	0	-0.45	0.69	0.64	0	0	0	0	0	0
9/13/2024 13:13	55101	WERT_T1	0	0	0	0	0	0	-3.14	-4.86	9	9	0	7200	7200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/13/2024 13:14	47101	MARL_T1	0	0	0	0	0	0	0.12	0.03	0	0	0	0	0	0
9/13/2024 13:14	55101	WERT_T1	0	0	0	0	0	0	-3.14	-4.86	9	9	0	7200	7200	0
9/13/2024 13:14	45802	HEGI_T2	28	0	-28	0.45	0	-0.45	0.69	0.64	0	0	0	0	0	0
9/13/2024 13:14	14702	TREX_T2	0	0	0	0	0	0	1.07	1.15	0	0	0	0	0	0
9/13/2024 13:15	14702	TREX_T2	0	0	0	0	0	0	1.07	1.15	0	0	0	0	0	0
9/13/2024 13:16	43801	SWIL_T1	1	7	6	6	0.89	-5.11	0	0	0	0	0	0	0	0
9/13/2024 13:16	43802	SWIL_T1	0	1	1	0	0.2	0.2	-0.11	0.14	1	1	0	600	600	0
9/13/2024 13:18	49804	UNIV_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/13/2024 13:18	49803	UNIV_T1	1	1	0	5.9	5.7	-0.2	-1.82	-0.55	0	0	0	0	0	0
9/13/2024 13:18	16302	ALPA_T2	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
9/13/2024 13:19	52202	DEVO_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
9/13/2024 13:19	44801	EDAN_T2	19	24	5	0.47	0.44	-0.03	-1.44	-1.4	0	0	0	0	0	0
9/13/2024 13:19	49804	UNIV_T1	2	0	-2	0.1	0	-0.1	-0.26	0.95	0	0	0	0	0	0
9/13/2024 13:19	52204	DEVO_T2	5	5	0	1.02	0.72	-0.3	0	0	0	0	0	0	0	0
9/13/2024 13:19	49803	UNIV_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
9/13/2024 13:20	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 13:21	49803	UNIV_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
9/13/2024 13:21	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 13:21	49804	UNIV_T1	2	0	-2	0.1	0	-0.1	-0.26	0.95	0	0	0	0	0	0
9/13/2024 13:24	64101	REFR_T1	22	32	10	0.45	0.35	-0.1	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 13:25	57401	SPAN_T1	2	2	0	0.35	0.6	0.25	-0.96	-0.99	2	2	0	1200	1200	0
9/13/2024 13:29	12202	FOGE_T2	0	2	2	0	1.45	1.45	0	0	1	1	0	600	600	0
9/13/2024 13:29	56501	ROCK_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
9/13/2024 13:29	56504	ROCK_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
9/13/2024 13:30	14702	TREX_T2	0	0	0	0	0	0	1.15	1.09	0	0	0	0	0	0
9/13/2024 13:34	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 13:40	44902	SCOT_T2	0	0	0	0	0	0	-1.86	-0.57	0	0	0	0	0	0
9/13/2024 13:42	67201	TEHI_T1	2	2	0	0.65	0.8	0.15	0	0	0	0	0	0	0	0
9/13/2024 13:42	67203	TEHI_T1	2	1	-1	0.8	1	0.2	2.31	2.16	3	3	0	2100	2100	0
9/13/2024 13:43	67201	TEHI_T1	2	2	0	0.65	0.8	0.15	0.84	0.94	2	2	0	1500	1500	0
9/13/2024 13:43	67203	TEHI_T1	2	1	-1	0.8	1	0.2	0	0	0	0	0	0	0	0
9/13/2024 13:44	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 13:44	43304	WATS_T2	0	0	0	0	0	0	-0.27	-0.55	0	0	0	0	0	0
9/13/2024 13:45	14702	TREX_T2	0	0	0	0	0	0	1.09	1.13	0	0	0	0	0	0
9/13/2024 13:46	21501	CEAV_T2	0	0	0	0	0	0	-0.3	-0.39	1	1	0	1200	1200	0
9/13/2024 13:46	43301	WATS_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
9/13/2024 13:46	43304	WATS_T2	0	0	0	0	0	0	-0.27	-0.55	0	0	0	0	0	0
9/13/2024 13:51	55001	NEWP_T1	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
9/13/2024 13:51	61501	EPET_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
9/13/2024 13:51	47001	HUGH_T2	4	3	-1	6.35	8.77	2.42	-1.34	-1.28	0	0	0	0	0	0
9/13/2024 13:51	61506	EPET_T2	0	0	0	0	0	0	-1.17	-1.23	2	2	0	1800	1800	0
9/13/2024 13:51	55002	NEWP_T1	6	7	1	0.9	0.87	-0.03	0	0	0	0	0	0	0	0
9/13/2024 13:57	57401	SPAN_T1	1	1	0	0.3	0.1	-0.2	-0.49	-0.26	1	1	0	600	600	0
9/13/2024 14:00	66501	SMAN_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
9/13/2024 14:00	66505	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/13/2024 14:00	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 14:02	66505	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/13/2024 14:02	53902	HALI_T2	3	3	0	2.03	1.97	-0.06	-0.7	-0.68	0	0	0	0	0	0
9/13/2024 14:02	53901	HALI_T2	4	2	-2	0.43	0.35	-0.08	-1	-0.97	0	0	0	0	0	0
9/13/2024 14:02	66504	SMAN_T2	0	0	0	0	0	0	-0.99	-1.08	1	1	0	1200	1200	0
9/13/2024 14:02	66501	SMAN_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
9/13/2024 14:02	53903	HALI_T2	4	2	-2	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/13/2024 14:04	53902	HALI_T2	3	3	0	2.03	1.97	-0.06	0	0	0	0	0	0	0	0
9/13/2024 14:04	53903	HALI_T2	4	2	-2	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/13/2024 14:04	53901	HALI_T2	4	2	-2	0.43	0.35	-0.08	-1	-0.97	0	0	0	0	0	0
9/13/2024 14:05	53901	HALI_T2	4	2	-2	0.43	0.35	-0.08	-3	-2.92	0	0	0	0	0	0
9/13/2024 14:05	53902	HALI_T2	3	3	0	2.03	1.97	-0.06	0	0	0	0	0	0	0	0
9/13/2024 14:05	53903	HALI_T2	4	2	-2	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/13/2024 14:06	53901	HALI_T2	4	2	-2	0.43	0.35	-0.08	-1.95	-1.96	0	0	0	0	0	0
9/13/2024 14:06	53903	HALI_T2	4	2	-2	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/13/2024 14:06	53902	HALI_T2	3	3	0	2.03	1.97	-0.06	0	0	0	0	0	0	0	0
9/13/2024 14:16	55001	NEWP_T1	1	2	1	0.2	0.25	0.05	-0.15	0.02	0	0	0	0	0	0
9/13/2024 14:16	55002	NEWP_T1	6	10	4	0.92	0.98	0.06	0	0	0	0	0	0	0	0
9/13/2024 14:16	10805	CHHI_T2	1	1	0	7.8	8.2	0.4	-1.58	-1.49	2	2	0	1800	1800	0
9/13/2024 14:17	10805	CHHI_T2	1	1	0	7.8	8.2	0.4	-1.58	-1.49	2	2	0	1800	1800	0
9/13/2024 14:18	23202	HIRU_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
9/13/2024 14:22	42802	SELI_T1	0	0	0	0	0	0	-0.58	-0.6	1	1	0	900	900	0
9/13/2024 14:24	25402	LAHA_T2	1	0	-1	0.1	0	-0.1	-0.2	-0.45	0	0	0	0	0	0
9/13/2024 14:27	45802	HEGI_T2	13	41	28	0.42	0.61	0.19	0.42	0.57	1	1	0	300	300	0
9/13/2024 14:28	45802	HEGI_T2	13	41	28	0.42	0.61	0.19	0.42	0.57	1	1	0	300	300	0
9/13/2024 14:31	44301	BEAV_T2	3	4	1	0.5	0.38	-0.12	0.77	0.24	1	1	0	600	600	0
9/13/2024 14:32	44301	BEAV_T2	3	4	1	0.5	0.38	-0.12	0.77	0.24	1	1	0	600	600	0
9/13/2024 14:33	44301	BEAV_T2	3	4	1	0.5	0.38	-0.12	1.54	0.48	2	2	0	1200	1200	0
9/13/2024 14:34	25402	LAHA_T2	0	0	0	0	0	0	-0.2	-0.45	0	0	0	0	0	0
9/13/2024 14:34	44301	BEAV_T2	3	4	1	0.5	0.38	-0.12	0.77	0.24	1	1	0	600	600	0
9/13/2024 14:35	44301	BEAV_T2	3	4	1	0.5	0.38	-0.12	0.77	0.24	1	1	0	600	600	0
9/13/2024 14:39	44902	SCOT_T2	0	0	0	0	0	0	-0.62	-1.87	0	0	0	0	0	0
9/13/2024 14:39	64305	LINC_T1	1	1	0	0.6	0.6	0	0.37	0.45	0	0	0	0	0	0
9/13/2024 14:40	57401	SPAN_T1	0	0	0	0	0	0	-0.21	-0.12	1	1	0	600	600	0
9/13/2024 14:47	10805	CHHI_T2	1	1	0	8.7	8.4	-0.3	-1.14	-1.2	2	2	0	1800	1800	0
9/13/2024 14:48	10801	CHHI_T1	5	6	1	0.5	1.02	0.52	-1.52	-1.54	3	3	0	2100	2100	0
9/13/2024 14:50	64305	LINC_T1	1	1	0	0.6	0.5	-0.1	0.37	0.45	0	0	0	0	0	0
9/13/2024 14:54	13302	ORVI_T2	3	3	0	1.53	1.23	-0.3	0.5	0.49	0	0	0	0	0	0
9/13/2024 14:54	48302	ORWI_T2	2	2	0	0.15	0.25	0.1	-0.23	-0.27	0	0	0	0	0	0
9/13/2024 14:54	16902	MECK_T1	0	1	1	0	0.4	0.4	0.11	0.15	0	0	0	0	0	0
9/13/2024 14:54	60101	COCA_T1	1	0	-1	0.2	0	-0.2	0.82	0.8	0	0	0	0	0	0
9/13/2024 14:55	44301	BEAV_T2	4	5	1	0.35	0.47	0.12	0.18	0.18	1	1	0	600	600	0
9/13/2024 15:00	24102	EHAZ_T1	2	0	-2	0.35	0	-0.35	0.67	0.68	0	0	0	0	0	0
9/13/2024 15:00	24105	EHAZ_T1	4	4	0	6.75	6.68	-0.07	0	0	0	0	0	0	0	0
9/13/2024 15:00	66502	SMAN_T2	0	0	0	0	0	0	0.21	0.38	0	0	0	0	0	0
9/13/2024 15:00	66501	SMAN_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
9/13/2024 15:03	67503	WEWI_T2	1	1	0	6.7	6.9	0.2	0.32	0.36	0	0	0	0	0	0
9/13/2024 15:03	67502	WEWI_T2	2	3	1	0.45	0.27	-0.18	0	0	0	0	0	0	0	0
9/13/2024 15:05	10805	CHHI_T2	1	1	0	8.7	8.2	-0.5	-1.2	-1.24	2	2	0	1800	1800	0
9/13/2024 15:13	67103	SPRI_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
9/13/2024 15:22	23502	EFOR_T1	0	0	0	0	0	0	-0.63	-0.62	1	1	0	1200	1200	0
9/13/2024 15:27	44301	BEAV_T2	4	7	3	0.4	0.14	-0.26	0.04	-0.03	1	1	0	600	600	0
9/13/2024 15:28	42201	SHEN_T2	1	1	0	0.1	0.1	0	0.8	0.78	0	0	0	0	0	0
9/13/2024 15:30	41902	REED_T1	0	8	8	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 15:30	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 15:30	41903	REED_T1	0	0	0	0	0	0	-0.14	-0.17	1	1	0	1200	1200	0
9/13/2024 15:34	52002	LING_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
9/13/2024 15:34	52004	LING_T2	2	2	0	5.35	5.3	-0.05	0	0	0	0	0	0	0	0
9/13/2024 15:35	52004	LING_T2	2	2	0	5.35	5.3	-0.05	0	0	0	0	0	0	0	0
9/13/2024 15:35	52002	LING_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
9/13/2024 15:36	55405	SHER_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
9/13/2024 15:37	52004	LING_T2	2	2	0	5.35	5.3	-0.05	0	0	0	0	0	0	0	0
9/13/2024 15:37	28701	HAML_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/13/2024 15:37	52002	LING_T2	0	0	0	0	0	0	0.62	0.66	0	0	0	0	0	0
9/13/2024 15:37	28704	HAML_T2	1	1	0	0.4	0.3	-0.1	0.03	0.03	0	0	0	0	0	0
9/13/2024 15:38	67203	TEHI_T1	1	1	0	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
9/13/2024 15:38	67201	TEHI_T1	0	5	5	0	0.64	0.64	0.92	0.32	2	2	0	1500	1500	0
9/13/2024 15:41	65005	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/13/2024 15:41	65001	NEFF_T2	0	0	0	0	0	0	-0.26	-0.14	1	1	0	1200	1200	0
9/13/2024 15:41	45802	HEGI_T2	2	1	-1	0.3	0	-0.3	1.81	1.19	0	2	2	0	600	600
9/13/2024 15:43	64101	REFR_T1	206	211	5	0.82	1.23	0.41	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 15:48	24702	FLND_T2	1	1	0	0.3	0.2	-0.1	0	0	1	1	0	1200	1200	0
9/13/2024 15:49	41301	FISH_T1	2	2	0	1.25	1.4	0.15	0.08	0.07	0	0	0	0	0	0
9/13/2024 15:51	41301	FISH_T1	2	2	0	1.25	1.4	0.15	0	0	0	0	0	0	0	0
9/13/2024 15:52	20601	GRWO_T2	0	25	25	0	0.47	0.47	0	0	0	0	0	0	0	0
9/13/2024 15:52	20603	GRWO_T2	0	0	0	0	0	0	-0.42	-0.44	1	1	0	900	900	0
9/13/2024 15:52	63501	HEID_TBK1-2	47	48	1	1.44	1.39	-0.05	0.21	0.17	1	1	0	900	900	0
9/13/2024 15:55	64101	REFR_T1	208	211	3	1.24	1.59	0.35	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 15:55	47502	NECO_T1	3	2	-1	0.37	0.45	0.08	0.95	0.95	0	0	0	0	0	0
9/13/2024 15:59	66505	SMAN_T2	1	0	-1	2.5	0	-2.5	0.06	0.1	4	3	-1	2300	2100	-200
9/13/2024 16:02	66505	SMAN_T2	0	0	0	0	0	0	0.06	0.1	4	3	-1	2300	2100	-200
9/13/2024 16:06	16902	MECK_T1	0	0	0	0	0	0	0.14	0.1	0	0	0	0	0	0
9/13/2024 16:06	12701	MACU_T1	0	0	0	0	0	0	-0.82	-0.82	1	1	0	1200	1200	0
9/13/2024 16:10	55001	NEWP_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
9/13/2024 16:10	55002	NEWP_T1	3	3	0	0.77	0.63	-0.14	0	0	0	0	0	0	0	0
9/13/2024 16:12	55002	NEWP_T1	3	3	0	0.77	0.63	-0.14	0	0	0	0	0	0	0	0
9/13/2024 16:12	55001	NEWP_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
9/13/2024 16:13	14402	SSLA_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/13/2024 16:13	14403	SSLA_T1	0	0	0	0	0	0	1.24	1.21	0	0	0	0	0	0
9/13/2024 16:14	14403	SSLA_T1	0	0	0	0	0	0	1.24	1.21	0	0	0	0	0	0
9/13/2024 16:14	14402	SSLA_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/13/2024 16:24	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
9/13/2024 16:24	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 16:24	64203	KINZ_T1	0	1	1	0	0	0	-1.09	-0.62	3	2	-1	2100	1800	-300
9/13/2024 16:24	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 16:25	64203	KINZ_T1	0	1	1	0	0	0	-1.09	-0.62	3	2	-1	2100	1800	-300
9/13/2024 16:25	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
9/13/2024 16:25	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 16:33	48902	FOSP_T2	0	0	0	0	0	0	0.24	0.18	0	0	0	0	0	0
9/13/2024 16:35	50501	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 16:35	50502	MECH_T1	1	1	0	2.3	2.5	0.2	-0.11	-0.14	2	2	0	2100	2100	0
9/13/2024 16:49	10801	CHHI_T1	0	4	4	0	0	0	-1.44	-1.45	3	3	0	2100	2100	0
9/13/2024 16:55	44201	POIN_T1	0	0	0	0	0	0	-1.4	-1.36	2	2	0	2100	2100	0
9/13/2024 17:03	47403	PENS_T1	1	1	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
9/13/2024 17:03	47401	PENS_T1	1	1	0	0.1	0	-0.1	-0.16	-0.22	0	0	0	0	0	0
9/13/2024 17:05	20403	ASHF_T2	0	0	0	0	0	0	0.8	0.73	0	0	0	0	0	0
9/13/2024 17:05	20401	ASHF_T2	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
9/13/2024 17:08	57401	SPAN_T1	0	0	0	0	0	0	-1.05	-1.12	1	1	0	600	600	0
9/13/2024 17:09	15601	NSTR_T2	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
9/13/2024 17:09	15603	NSTR_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
9/13/2024 17:10	65503	MOJO_T2	0	0	0	0	0	0	-0.31	-0.3	1	1	0	900	900	0
9/13/2024 17:17	49803	UNIV_T1	1	1	0	5.3	5	-0.3	0	0	0	0	0	0	0	0
9/13/2024 17:17	49804	UNIV_T1	0	0	0	0	0	0	1.11	1.08	0	0	0	0	0	0
9/13/2024 17:17	25602	ARRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 17:33	61703	ELIZ_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/13/2024 17:33	61701	ELIZ_T1	2	1	-1	0.8	0.5	-0.3	2.02	1.94	0	0	0	0	0	0
9/13/2024 17:38	11604	CEAL_T1	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
9/13/2024 17:38	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/13/2024 17:47	10701	CATA_T2	0	0	0	0	0	0	-0.32	-0.26	1	1	0	1200	1200	0
9/13/2024 17:51	46101	MACI_T2	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
9/13/2024 18:02	22904	HARW_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
9/13/2024 18:02	22903	HARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/13/2024 18:02	46206	DANV_T2	1	1	0	1.7	1	-0.7	1.79	1.77	2	2	0	2100	2100	0
9/13/2024 18:02	46203	DANV_T2	1	1	0	7.3	6.8	-0.5	0	0	0	0	0	0	0	0
9/13/2024 18:04	46203	DANV_T2	1	1	0	7.3	6.8	-0.5	0	0	0	0	0	0	0	0
9/13/2024 18:04	46206	DANV_T2	1	1	0	1.7	1	-0.7	1.79	1.77	2	2	0	2100	2100	0
9/13/2024 18:05	46206	DANV_T2	1	1	0	1.7	1	-0.7	1.79	1.77	2	2	0	2100	2100	0
9/13/2024 18:05	46203	DANV_T2	1	1	0	7.3	6.8	-0.5	0	0	0	0	0	0	0	0
9/13/2024 18:08	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 18:08	40101	HUNT_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
9/13/2024 18:09	44502	HAMI_T2	1	1	0	2.3	2.5	0.2	-0.48	-0.49	0	0	0	0	0	0
9/13/2024 18:17	16006	DORN_T2	0	0	0	0	0	0	1.34	1.27	0	0	0	0	0	0
9/13/2024 18:19	10705	CATA_T2	0	0	0	0	0	0	-0.67	-0.72	0	0	0	0	0	0
9/13/2024 18:19	53901	HALI_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
9/13/2024 18:19	53903	HALI_T2	2	2	0	1.6	1.6	0	-0.01	-0.02	0	0	0	0	0	0
9/13/2024 18:19	10701	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 18:19	53902	HALI_T2	1	1	0	5.5	6.1	0.6	0	0	0	0	0	0	0	0
9/13/2024 18:21	40101	HUNT_T2	0	1	1	0	0	0	-0.41	-0.44	0	0	0	0	0	0
9/13/2024 18:22	12603	MACA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 18:22	12602	MACA_T1	0	0	0	0	0	0	-1.56	-1.64	0	0	0	0	0	0
9/13/2024 18:25	65502	MOJO_T2	0	2	2	0	0.1	0.1	0.81	0.86	1	1	0	900	900	0
9/13/2024 18:29	41902	REED_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/13/2024 18:29	41903	REED_T1	0	0	0	0	0	0	-0.24	-0.23	1	1	0	1200	1200	0
9/13/2024 18:29	41901	REED_T1	6	10	4	0.23	0.46	0.23	0	0	0	0	0	0	0	0
9/13/2024 18:32	10705	CATA_T2	0	0	0	0	0	0	-0.72	-0.77	0	0	0	0	0	0
9/13/2024 18:33	53902	HALI_T2	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
9/13/2024 18:33	53901	HALI_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 18:33	53903	HALI_T2	2	2	0	1.6	1.6	0	-0.02	-0.02	0	0	0	0	0	0
9/13/2024 18:34	63304	GREE_T1	0	0	0	0	0	0	-1	-1.04	0	0	0	0	0	0
9/13/2024 18:34	63305	GREE_T1	4	13	9	0.33	0.26	-0.07	0	0	0	0	0	0	0	0
9/13/2024 18:35	10705	CATA_T2	0	0	0	0	0	0	-0.72	-0.77	0	0	0	0	0	0
9/13/2024 18:38	10705	CATA_T2	0	0	0	0	0	0	-0.77	-0.73	0	0	0	0	0	0
9/13/2024 18:38	13005	NBET_T2	0	0	0	0	0	0	-0.34	-0.38	1	1	0	1200	1200	0
9/13/2024 19:31	49803	UNIV_T1	1	1	0	5.2	5	-0.2	-1.94	-1.93	0	0	0	0	0	0
9/13/2024 20:17	57106	SPHI_T2	3	3	0	1.33	1.5	0.17	0	0	0	0	0	0	0	0
9/13/2024 20:17	57104	SPHI_T2	1	1	0	0.6	0.4	-0.2	-1.29	-1.33	1	1	0	900	900	0
9/13/2024 20:17	57101	SPHI_T2	6	6	0	0.35	1.05	0.7	0	0	0	0	0	0	0	0
9/13/2024 20:18	16006	DORN_T2	0	0	0	0	0	0	1.11	1.11	0	0	0	0	0	0
9/13/2024 20:21	64904	MILL_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
9/13/2024 20:23	16402	MOPO_T1	0	0	0	0	0	0	0.72	0.7	0	0	0	0	0	0
9/13/2024 20:25	16402	MOPO_T1	0	0	0	0	0	0	0.72	0.7	0	0	0	0	0	0
9/13/2024 20:28	20403	ASHF_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
9/13/2024 20:28	20401	ASHF_T2	2	5	3	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
9/13/2024 20:34	42302	MOWR_T2	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
9/13/2024 20:47	53102	WTWN_T1	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
9/13/2024 20:48	56501	ROCK_T2	77	2	-75	0.18	0.25	0.07	-1.1	0.21	0	0	0	0	0	0
9/13/2024 20:48	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 20:55	44203	POIN_T2	0	0	0	0	0	0	0.55	0.34	1	1	0	900	900	0
9/13/2024 21:00	25603	ARRO_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
9/13/2024 21:05	64501	LAVI_T1	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
9/13/2024 21:08	28703	HAML_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/13/2024 21:08	28704	HAML_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/13/2024 21:09	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 21:09	60701	BREC_T1	0	0	0	0	0	0	-0.31	-0.34	1	1	0	600	600	0
9/13/2024 21:11	64902	MILL_T2	0	0	0	0	0	0	-0.34	-0.38	1	1	0	900	900	0
9/13/2024 21:12	13302	ORVI_T2	0	0	0	0	0	0	1.45	1.43	0	0	0	0	0	0
9/13/2024 21:12	67502	WEWI_T2	0	6	6	0	0.2	0.2	-1.14	-1.19	1	1	0	900	900	0
9/13/2024 21:12	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/13/2024 21:12	67503	WEWI_T2	1	1	0	7.2	7.7	0.5	0	0	0	0	0	0	0	0
9/13/2024 21:12	15702	TANN_T2	0	0	0	0	0	0	-0.25	-0.29	0	0	0	0	0	0
9/13/2024 21:12	16102	BING_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 21:12	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/13/2024 21:12	16101	BING_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
9/13/2024 21:13	10805	CHHI_T2	1	1	0	8.1	8	-0.1	-0.66	-0.72	1	1	0	600	600	0
9/13/2024 21:13	14308	SUMN_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
9/13/2024 21:13	25602	ARRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 21:13	13905	SEID_T1	0	0	0	0	0	0	-0.79	-0.78	1	1	0	1200	1200	0
9/13/2024 21:13	43801	SWIL_T1	21	34	13	0.46	0.38	-0.08	0	0	0	0	0	0	0	0
9/13/2024 21:13	23202	HIRU_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
9/13/2024 21:13	43802	SWIL_T1	0	0	0	0	0	0	0.09	0.08	1	1	0	600	600	0
9/13/2024 21:13	44502	HAMI_T2	1	1	0	3	2.9	-0.1	-0.61	-0.64	0	0	0	0	0	0
9/13/2024 21:13	14303	SUMN_T1	3	3	0	6.5	6.57	0.07	0	0	0	0	0	0	0	0
9/13/2024 21:13	62105	ELAN_T1	3	18	15	0.1	0.11	0.01	0.8	0.77	0	0	0	0	0	0
9/13/2024 21:13	23201	HIRU_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/13/2024 21:13	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/13/2024 21:13	25402	LAHA_T2	0	0	0	0	0	0	-0.83	-0.86	0	0	0	0	0	0
9/13/2024 21:14	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/13/2024 21:14	67605	WARW_T1	11	19	8	0.34	0.51	0.17	0	0	0	0	0	0	0	0
9/13/2024 21:14	65003	NEFF_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/13/2024 21:14	65001	NEFF_T2	15	0	-15	0.11	0	-0.11	-0.79	-0.94	1	1	0	1200	1200	0
9/13/2024 21:14	60701	BREC_T1	0	0	0	0	0	0	-0.31	-0.34	1	1	0	600	600	0
9/13/2024 21:14	67603	WARW_T1	0	0	0	0	0	0	0.1	0.06	0	0	0	0	0	0
9/13/2024 21:14	57401	SPAN_T1	2	2	0	0.9	1	0.1	-0.6	-0.65	1	1	0	600	600	0
9/13/2024 21:14	11507	FREE_T2	0	0	0	0	0	0	0.92	0.88	0	0	0	0	0	0
9/13/2024 21:14	11604	CEAL_T1	9	9	0	0.49	0.68	0.19	0	0	0	0	0	0	0	0
9/13/2024 21:14	13101	NHAM_T1	0	0	0	0	0	0	-2.68	-2.69	2	2	0	2400	2400	0
9/13/2024 21:15	45902	AUBU_T1	0	41	41	0	0.24	0.24	0	0	0	0	0	0	0	0
9/13/2024 21:15	16302	ALPA_T2	0	0	0	0	0	0	1.78	1.69	0	0	0	0	0	0
9/13/2024 21:15	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	0	-1	600	0	-600
9/13/2024 21:15	45901	AUBU_T1	0	0	0	0	0	0	1.72	1.73	0	0	0	0	0	0
9/13/2024 21:15	12602	MACA_T1	0	0	0	0	0	0	-1.02	-1.11	0	0	0	0	0	0
9/13/2024 21:15	10805	CHHI_T2	1	1	0	8	7.7	-0.3	-0.66	-0.72	1	1	0	600	600	0
9/13/2024 21:15	52002	LING_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
9/13/2024 21:15	52004	LING_T2	2	2	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
9/13/2024 21:15	14401	SSLA_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
9/13/2024 21:15	61701	ELIZ_T1	1	1	0	2.9	3.2	0.3	1.54	1.58	0	0	0	0	0	0
9/13/2024 21:16	41902	REED_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/13/2024 21:16	41901	REED_T1	9	9	0	0.2	0.33	0.13	0	0	0	0	0	0	0	0
9/13/2024 21:16	13001	NBET_T2	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
9/13/2024 21:16	54203	PENN_T1	24	112	88	1.12	0.43	-0.69	0	0	0	0	0	0	0	0
9/13/2024 21:16	12801	MICK_T1	0	0	0	0	0	0	-0.15	-0.22	0	0	0	0	0	0
9/13/2024 21:16	16102	BING_T2	2	6	4	0.15	0.18	0.03	0	0	0	0	0	0	0	0
9/13/2024 21:16	66902	SHIL_T2	0	102	102	0	0.14	0.14	0	0	0	0	0	0	0	0
9/13/2024 21:16	22904	HARW_T1	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
9/13/2024 21:16	12803	MICK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/13/2024 21:16	24902	WHHA_T1	0	0	0	0	0	0	0.79	0.82	0	0	0	0	0	0
9/13/2024 21:16	64202	KINZ_T1	9	3	-6	0.36	0.53	0.17	0	0	0	0	0	0	0	0
9/13/2024 21:16	22903	HARW_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/13/2024 21:16	11104	EGYP_T1	0	0	0	0	0	0	1.43	1.38	0	0	0	0	0	0
9/13/2024 21:16	14801	TREI_T2	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
9/13/2024 21:16	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 21:16	52004	LING_T2	2	2	0	5.2	5.4	0.2	0.25	0.25	0	0	0	0	0	0
9/13/2024 21:16	64201	KINZ_T1	38	5	-33	0.25	0.44	0.19	-0.47	-0.52	2	2	0	1200	1200	0
9/13/2024 21:16	56501	ROCK_T2	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
9/13/2024 21:16	16302	ALPA_T2	0	0	0	0	0	0	0.89	0.84	0	0	0	0	0	0
9/13/2024 21:16	54201	PENN_T1	65	181	116	0.46	0.39	-0.07	-0.75	-0.71	0	0	0	0	0	0
9/13/2024 21:16	66901	SHIL_T2	11	252	241	0.1	0.24	0.14	0	0	0	0	0	0	0	0
9/13/2024 21:16	54205	PENN_T1	7	162	155	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/13/2024 21:16	16902	MECK_T1	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
9/13/2024 21:16	15603	NSTR_T2	0	0	0	0	0	0	-0.28	-0.23	0	0	0	0	0	0
9/13/2024 21:16	66504	SMAN_T2	0	0	0	0	0	0	-0.3	-0.36	0	0	0	0	0	0
9/13/2024 21:16	60101	COCA_T1	0	0	0	0	0	0	1.46	1.29	0	0	0	0	0	0
9/13/2024 21:16	41903	REED_T1	0	0	0	0	0	0	0.9	0.89	0	0	0	0	0	0
9/13/2024 21:16	67503	WEWI_T2	1	1	0	7.4	7.7	0.3	0.26	0.38	0	0	0	0	0	0
9/13/2024 21:16	16103	BING_T2	0	0	0	0	0	0	-1.19	-1.16	1	1	0	900	900	0
9/13/2024 21:16	67502	WEWI_T2	6	24	18	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
9/13/2024 21:16	66903	SHIL_T2	0	0	0	0	0	0	-0.67	-0.7	0	0	0	0	0	0
9/13/2024 21:16	55101	WERT_T1	0	0	0	0	0	0	-1.12	-1.21	2	2	0	1500	1500	0
9/13/2024 21:16	15601	NSTR_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
9/13/2024 21:16	64203	KINZ_T1	12	0	-12	0.12	0	-0.12	0	0	0	0	0	0	0	0
9/13/2024 21:16	56504	ROCK_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
9/13/2024 21:16	63501	HEID_TBK1-2	30	35	5	0.78	0.29	-0.49	-0.26	-0.3	1	1	0	900	900	0
9/13/2024 21:16	64204	KINZ_T1	23	4	-19	0.22	0.43	0.21	0	0	0	0	0	0	0	0
9/13/2024 21:17	43302	WATS_T2	4	4	0	0.53	0.78	0.25	0	0	0	0	0	0	0	0
9/13/2024 21:17	43301	WATS_T2	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
9/13/2024 21:17	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 21:17	67503	WEWI_T2	1	1	0	7.4	7.7	0.3	0	0	0	0	0	0	0	0
9/13/2024 21:17	67605	WARW_T1	14	19	5	0.49	0.51	0.02	-1.96	-2.06	0	0	0	0	0	0
9/13/2024 21:17	67502	WEWI_T2	6	24	18	0.2	0.13	-0.07	-1.14	-1.19	1	1	0	900	900	0
9/13/2024 21:17	42601	TUSC_T1	0	0	0	0	0	0	-0.41	-0.41	2	2	0	1800	1800	0
9/13/2024 21:17	45902	AUBU_T1	0	41	41	0	0.24	0.24	-1.91	-1.99	2	2	0	1200	1200	0
9/13/2024 21:17	53903	HALI_T2	2	2	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:17	10705	CATA_T2	0	0	0	0	0	0	-0.96	-1.02	0	0	0	0	0	0
9/13/2024 21:17	40201	BEGA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/13/2024 21:17	53901	HALI_T2	1	2	1	1.3	0.75	-0.55	-1.14	-1.14	0	0	0	0	0	0
9/13/2024 21:17	63501	HEID_TBK1-2	30	35	5	0.78	0.29	-0.49	-0.26	-0.3	1	1	0	900	900	0
9/13/2024 21:17	61506	EPET_T2	0	0	0	0	0	0	-0.54	0.18	1	0	-1	900	0	-900
9/13/2024 21:17	47001	HUGH_T2	3	4	1	8.77	6.95	-1.82	-1.16	-1.28	0	0	0	0	0	0
9/13/2024 21:17	20601	GRWO_T2	0	0	0	0	0	0	0.81	0.78	0	0	0	0	0	0
9/13/2024 21:17	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 21:17	24902	WHHA_T1	0	0	0	0	0	0	0.79	0.82	0	0	0	0	0	0
9/13/2024 21:17	14403	SSLA_T1	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
9/13/2024 21:17	16102	BING_T2	2	6	4	0.15	0.18	0.03	0.49	0.47	0	0	0	0	0	0
9/13/2024 21:17	53902	HALI_T2	1	1	0	5.8	5.4	-0.4	0	0	0	0	0	0	0	0
9/13/2024 21:17	14401	SSLA_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
9/13/2024 21:17	14404	SSLA_T1	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
9/13/2024 21:17	10702	CATA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:17	57401	SPAN_T1	2	5	3	0.8	0.62	-0.18	-0.6	-0.65	1	1	0	600	600	0
9/13/2024 21:17	60101	COCA_T1	0	0	0	0	0	0	0.49	0.43	0	0	0	0	0	0
9/13/2024 21:17	61501	EPET_T2	1	1	0	5.1	5.6	0.5	0	0	0	0	0	0	0	0
9/13/2024 21:17	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/13/2024 21:17	45901	AUBU_T1	0	0	0	0	0	0	1.72	1.73	0	0	0	0	0	0
9/13/2024 21:17	64902	MILL_T2	0	0	0	0	0	0	-0.34	-0.38	1	1	0	900	900	0
9/13/2024 21:17	47002	HUGH_T2	6	9	3	0.22	0.23	0.01	0	0	0	0	0	0	0	0
9/13/2024 21:18	44502	HAMI_T2	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
9/13/2024 21:18	44802	EDAN_T2	0	0	0	0	0	0	-1.06	-1.09	0	0	0	0	0	0
9/13/2024 21:18	63401	HONY_T1	0	0	0	0	0	0	-0.14	-0.08	1	1	0	600	600	0
9/13/2024 21:18	15702	TANN_T2	0	0	0	0	0	0	-0.25	-0.29	0	0	0	0	0	0
9/13/2024 21:18	63403	HONY_T2	0	0	0	0	0	0	0.17	0.2	0	0	0	0	0	0
9/13/2024 21:18	56501	ROCK_T2	2	2	0	0.25	0.5	0.25	0.19	0.18	0	0	0	0	0	0
9/13/2024 21:18	24901	WHHA_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
9/13/2024 21:18	44505	HAMI_T2	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
9/13/2024 21:18	24102	EHAZ_T1	1	1	0	0.7	0	-0.7	0.64	0.63	0	0	0	0	0	0
9/13/2024 21:18	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 21:18	58402	MORO_T1	0	0	0	0	0	0	-0.17	0.43	2	1	-1	1500	900	-600
9/13/2024 21:18	51102	CARL_T1	1	66	65	0.1	0.18	0.08	0	0	0	0	0	0	0	0
9/13/2024 21:18	67803	WLAN_T1	0	0	0	0	0	0	-0.61	-0.63	0	0	0	0	0	0
9/13/2024 21:18	60803	BUCK_T1	3	6	3	0.1	0.12	0.02	0	0	0	0	0	0	0	0
9/13/2024 21:18	60801	BUCK_T1	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
9/13/2024 21:18	13503	MCMI_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
9/13/2024 21:18	48302	ORWI_T2	2	2	0	0.9	1.15	0.25	0.06	0.04	0	0	0	0	0	0
9/13/2024 21:18	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 21:18	20403	ASHF_T2	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
9/13/2024 21:18	16902	MECK_T1	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
9/13/2024 21:18	63601	LETO_T1	0	0	0	0	0	0	1.12	1.11	1	1	0	1200	1200	0
9/13/2024 21:18	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/13/2024 21:18	14702	TREX_T2	0	0	0	0	0	0	1.14	1.08	0	0	0	0	0	0
9/13/2024 21:18	64101	REFR_T1	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 21:18	24105	EHAZ_T1	4	4	0	6.48	6.2	-0.28	0	0	0	0	0	0	0	0
9/13/2024 21:18	50501	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:18	62604	ENGL_T1	0	0	0	0	0	0	-1.95	-1.9	3	3	0	1800	1800	0
9/13/2024 21:18	63404	HONY_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:18	51101	CARL_T1	1	1	0	5.7	5.1	-0.6	0	0	0	0	0	0	0	0
9/13/2024 21:18	50502	MECH_T1	121	132	11	0.31	0.55	0.24	-0.28	-0.29	1	1	0	900	900	0
9/13/2024 21:18	44801	EDAN_T2	130	234	104	0.46	0.45	-0.01	0	0	0	0	0	0	0	0
9/13/2024 21:18	40201	BEGA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/13/2024 21:18	45501	DERR_T2	1	1	0	0.2	0.3	0.1	-0.58	-0.59	2	2	0	1800	1800	0
9/13/2024 21:18	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 21:18	42601	TUSC_T1	0	0	0	0	0	0	-0.41	-0.41	2	2	0	1800	1800	0
9/13/2024 21:18	24902	WHHA_T1	0	0	0	0	0	0	0.79	0.82	0	0	0	0	0	0
9/13/2024 21:18	63402	HONY_T2	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
9/13/2024 21:18	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 21:19	64202	KINZ_T1	9	3	-6	0.36	0.53	0.17	0	0	0	0	0	0	0	0
9/13/2024 21:19	60801	BUCK_T1	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
9/13/2024 21:19	56501	ROCK_T2	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
9/13/2024 21:19	14201	EALL_T1	0	0	0	0	0	0	0.79	0.76	0	0	0	0	0	0
9/13/2024 21:19	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 21:19	64201	KINZ_T1	38	5	-33	0.25	0.44	0.19	0	0	0	0	0	0	0	0
9/13/2024 21:19	60803	BUCK_T1	3	6	3	0.1	0.12	0.02	0	0	0	0	0	0	0	0
9/13/2024 21:19	55002	NEWP_T1	3	5	2	0.33	0.58	0.25	-0.2	-0.2	0	0	0	0	0	0
9/13/2024 21:19	64204	KINZ_T1	23	4	-19	0.22	0.43	0.21	0	0	0	0	0	0	0	0
9/13/2024 21:19	40101	HUNT_T2	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
9/13/2024 21:19	64203	KINZ_T1	12	0	-12	0.12	0	-0.12	-0.18	0.41	1	0	-1	600	0	-600
9/13/2024 21:19	56504	ROCK_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
9/13/2024 21:19	60101	COCA_T1	0	0	0	0	0	0	0.49	0.43	0	0	0	0	0	0
9/13/2024 21:19	67402	WAKE_T2	0	0	0	0	0	0	-0.23	-0.25	1	1	0	600	600	0
9/13/2024 21:19	64101	REFR_T1	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 21:19	67605	WARW_T1	14	19	5	0.49	0.51	0.02	0	0	0	0	0	0	0	0
9/13/2024 21:19	14702	TREX_T2	0	0	0	0	0	0	1.14	1.08	0	0	0	0	0	0
9/13/2024 21:19	40201	BEGA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/13/2024 21:19	45501	DERR_T2	1	1	0	0.2	0.3	0.1	-0.58	-0.59	2	2	0	1800	1800	0
9/13/2024 21:19	64503	LAVI_T1	0	0	0	0	0	0	-0.37	-0.44	1	1	0	1200	1200	0
9/13/2024 21:20	26401	INOR_T1	1	1	0	8.7	8.8	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:20	26402	INOR_T1	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
9/13/2024 21:20	53901	HALI_T2	1	2	1	1.3	0.75	-0.55	0	0	0	0	0	0	0	0
9/13/2024 21:20	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 21:20	14404	SSLA_T1	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
9/13/2024 21:20	14203	EALL_T1	0	0	0	0	0	0	-0.14	-0.07	1	1	0	1200	1200	0
9/13/2024 21:20	64101	REFR_T1	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 21:20	53903	HALI_T2	2	2	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:20	10705	CATA_T2	0	0	0	0	0	0	-0.96	-1.02	0	0	0	0	0	0
9/13/2024 21:20	23403	HONE_T1	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
9/13/2024 21:20	55002	NEWP_T1	3	5	2	0.33	0.58	0.25	0	0	0	0	0	0	0	0
9/13/2024 21:20	46506	LOHA_T1	4	4	0	4.43	4.53	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:20	42201	SHEN_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
9/13/2024 21:20	46501	LOHA_T1	0	0	0	0	0	0	0.23	0.27	1	1	0	1200	1200	0
9/13/2024 21:20	66504	SMAN_T2	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
9/13/2024 21:20	55001	NEWP_T1	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
9/13/2024 21:20	56501	ROCK_T2	2	2	0	0.25	0.5	0.25	0.37	0.37	0	0	0	0	0	0
9/13/2024 21:20	57205	ROSS_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
9/13/2024 21:20	56504	ROCK_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
9/13/2024 21:20	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 21:20	48902	FOSP_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
9/13/2024 21:20	41301	FISH_T1	2	2	0	0.55	0.65	0.1	-0.01	-0.04	0	0	0	0	0	0
9/13/2024 21:20	53902	HALI_T2	1	1	0	5.8	5.4	-0.4	-0.17	-0.17	0	0	0	0	0	0
9/13/2024 21:20	10702	CATA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:20	20601	GRWO_T2	0	0	0	0	0	0	0.81	0.78	0	0	0	0	0	0
9/13/2024 21:20	46504	LOHA_T1	3	6	3	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
9/13/2024 21:20	57401	SPAN_T1	2	5	3	0.8	0.62	-0.18	-0.6	-0.65	1	1	0	600	600	0
9/13/2024 21:20	13001	NBET_T2	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
9/13/2024 21:20	40101	HUNT_T2	0	0	0	0	0	0	-1.2	-1.22	0	0	0	0	0	0
9/13/2024 21:21	46504	LOHA_T1	3	6	3	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
9/13/2024 21:21	45902	AUBU_T1	0	41	41	0	0.24	0.24	-1.99	-2.19	2	2	0	1200	1200	0
9/13/2024 21:21	42802	SELI_T1	0	1	1	0	0.2	0.2	-1.11	-1.1	1	1	0	900	900	0
9/13/2024 21:21	46506	LOHA_T1	4	4	0	4.43	4.53	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:21	49804	UNIV_T1	0	2	2	0	0.15	0.15	0.73	0.71	0	0	0	0	0	0
9/13/2024 21:21	66903	SHIL_T2	0	0	0	0	0	0	-0.67	-0.7	0	0	0	0	0	0
9/13/2024 21:21	25603	ARRO_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
9/13/2024 21:21	12604	MACA_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
9/13/2024 21:21	66902	SHIL_T2	0	102	102	0	0.14	0.14	0	0	0	0	0	0	0	0
9/13/2024 21:21	62105	ELAN_T1	18	1	-17	0.11	0.1	-0.01	0.8	0.77	0	0	0	0	0	0
9/13/2024 21:21	12701	MACU_T1	0	0	0	0	0	0	-1.09	-1.11	1	1	0	1200	1200	0
9/13/2024 21:21	10805	CHHI_T2	1	1	0	8	7.7	-0.3	-0.72	-1.03	1	1	0	600	600	0
9/13/2024 21:21	12006	HATF_T1	0	0	0	0	0	0	0.36	0.32	1	1	0	1200	1200	0
9/13/2024 21:21	46203	DANV_T2	1	1	0	8.3	8.7	0.4	0	0	0	0	0	0	0	0
9/13/2024 21:21	67503	WEWI_T2	1	1	0	7.4	7.7	0.3	0.13	0.19	0	0	0	0	0	0
9/13/2024 21:21	62604	ENGL_T1	0	0	0	0	0	0	-0.65	-0.63	1	1	0	600	600	0
9/13/2024 21:21	44802	EDAN_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
9/13/2024 21:21	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/13/2024 21:21	47401	PENS_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
9/13/2024 21:21	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/13/2024 21:21	66901	SHIL_T2	11	252	241	0.1	0.24	0.14	0	0	0	0	0	0	0	0
9/13/2024 21:21	46501	LOHA_T1	0	0	0	0	0	0	0.23	0.27	1	1	0	1200	1200	0
9/13/2024 21:21	67502	WEWI_T2	6	24	18	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
9/13/2024 21:21	13005	NBET_T2	0	0	0	0	0	0	-0.6	-0.66	1	1	0	1200	1200	0
9/13/2024 21:21	60102	COCA_T1	0	0	0	0	0	0	-0.09	-0.34	2	2	0	1200	1200	0
9/13/2024 21:21	46206	DANV_T2	0	0	0	0	0	0	1.4	1.39	2	2	0	2100	2100	0
9/13/2024 21:21	44801	EDAN_T2	130	234	104	0.46	0.45	-0.01	0	0	0	0	0	0	0	0
9/13/2024 21:21	49803	UNIV_T1	1	1	0	4.9	4.6	-0.3	0	0	0	0	0	0	0	0
9/13/2024 21:21	64101	REFR_T1	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 21:21	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 21:21	10705	CATA_T2	0	0	0	0	0	0	-1.02	-1.09	0	0	0	0	0	0
9/13/2024 21:21	62101	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/13/2024 21:21	10702	CATA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:22	49804	UNIV_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/13/2024 21:22	44802	EDAN_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
9/13/2024 21:22	56501	ROCK_T2	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
9/13/2024 21:22	67605	WARW_T1	14	19	5	0.49	0.51	0.02	-1.03	-1.05	0	0	0	0	0	0
9/13/2024 21:22	64101	REFR_T1	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 21:22	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/13/2024 21:22	52501	PROG_T1	0	10	10	0	0.1	0.1	-0.88	-0.92	0	0	0	0	0	0
9/13/2024 21:22	65502	MOJO_T2	0	232	232	0	0.18	0.18	0	0	0	0	0	0	0	0
9/13/2024 21:22	55101	WERT_T1	0	0	0	0	0	0	-1.21	-1.23	2	2	0	1500	1500	0
9/13/2024 21:22	45802	HEGI_T2	43	46	3	0.95	1.11	0.16	0.48	0.35	0	0	0	0	0	0
9/13/2024 21:22	65205	PRIN_T1	4	1	-3	0.63	1.4	0.77	0	0	0	0	0	0	0	0
9/13/2024 21:22	67703	WERN_T2	0	0	0	0	0	0	0.02	0.02	1	1	0	900	900	0
9/13/2024 21:22	20403	ASHF_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
9/13/2024 21:22	13001	NBET_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
9/13/2024 21:22	52002	LING_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
9/13/2024 21:22	52004	LING_T2	2	2	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
9/13/2024 21:22	65503	MOJO_T2	0	6	6	0	0.1	0.1	0.01	-0.09	0	0	0	0	0	0
9/13/2024 21:22	43304	WATS_T2	0	0	0	0	0	0	-0.23	-0.29	0	0	0	0	0	0
9/13/2024 21:22	56504	ROCK_T2	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
9/13/2024 21:22	44801	EDAN_T2	130	234	104	0.46	0.45	-0.01	-1.5	-1.53	0	0	0	0	0	0
9/13/2024 21:22	15001	BLMO_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/13/2024 21:22	20201	JERM_T1	0	0	0	0	0	0	1.82	1.57	0	0	0	0	0	0
9/13/2024 21:22	41301	FISH_T1	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:22	53102	WTWN_T1	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
9/13/2024 21:22	48302	ORWI_T2	2	2	0	0.9	1.15	0.25	0	0	0	0	0	0	0	0
9/13/2024 21:22	49803	UNIV_T1	1	1	0	4.9	4.6	-0.3	-2.15	-2.18	0	0	0	0	0	0
9/13/2024 21:22	42201	SHEN_T2	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
9/13/2024 21:22	60101	COCA_T1	0	0	0	0	0	0	0.86	0.83	0	0	0	0	0	0
9/13/2024 21:22	43302	WATS_T2	4	4	0	0.53	0.78	0.25	0	0	0	0	0	0	0	0
9/13/2024 21:22	44902	SCOT_T2	0	0	0	0	0	0	-0.72	-0.62	0	0	0	0	0	0
9/13/2024 21:22	24901	WHHA_T1	0	0	0	0	0	0	0.58	0.53	0	0	0	0	0	0
9/13/2024 21:22	55405	SHER_T1	6	7	1	0.72	0.67	-0.05	-0.17	-0.17	0	0	0	0	0	0
9/13/2024 21:22	60701	BREC_T1	0	0	0	0	0	0	-0.34	-0.36	1	1	0	600	600	0
9/13/2024 21:22	10801	CHHI_T1	0	0	0	0	0	0	-0.59	-0.61	1	1	0	900	900	0
9/13/2024 21:22	57401	SPAN_T1	2	5	3	0.8	0.62	-0.18	-1.96	-2.71	3	3	0	1800	1800	0
9/13/2024 21:22	40902	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:22	42802	SELI_T1	0	1	1	0	0.2	0.2	-1.1	-1.19	1	1	0	900	900	0
9/13/2024 21:22	15702	TANN_T2	0	0	0	0	0	0	-0.29	-0.34	0	0	0	0	0	0
9/13/2024 21:23	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:23	56501	ROCK_T2	2	2	0	0.25	0.5	0.25	0.37	0.24	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/13/2024 21:23	51204	MTON_T2	0	0	0	0	0	0	-0.31	-0.32	1	1	0	600	600	0
9/13/2024 21:23	20603	GRWO_T2	0	0	0	0	0	0	-0.53	-0.57	1	1	0	900	900	0
9/13/2024 21:23	60201	ATGL_T2	0	0	0	0	0	0	-0.05	-0.18	0	0	0	0	0	0
9/13/2024 21:23	63501	HEID_TBK1-2	30	35	5	0.78	0.29	-0.49	-0.3	-0.01	1	1	0	900	900	0
9/13/2024 21:23	53601	DALM_T2	1	1	0	1.1	1.3	0.2	-0.03	-0.07	0	0	0	0	0	0
9/13/2024 21:23	14403	SSLA_T1	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
9/13/2024 21:23	10705	CATA_T2	0	0	0	0	0	0	-1.02	-1.09	0	0	0	0	0	0
9/13/2024 21:23	64305	LINC_T1	0	0	0	0	0	0	-0.39	-0.44	0	0	0	0	0	0
9/13/2024 21:23	55001	NEWP_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
9/13/2024 21:23	67605	WARW_T1	14	19	5	0.49	0.51	0.02	-1.03	-1.05	0	0	0	0	0	0
9/13/2024 21:23	56504	ROCK_T2	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
9/13/2024 21:23	43302	WATS_T2	4	4	0	0.53	0.78	0.25	0	0	0	0	0	0	0	0
9/13/2024 21:23	40601	PIGR_T1	2	21	19	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/13/2024 21:23	55002	NEWP_T1	3	5	2	0.33	0.58	0.25	-0.2	-0.2	0	0	0	0	0	0
9/13/2024 21:23	10702	CATA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:23	23502	GEOR_T1	0	0	0	0	0	0	-1.39	-1.2	1	1	0	1200	1200	0
9/13/2024 21:23	46001	BERW_T1	0	0	0	0	0	0	1.55	1.51	0	0	0	0	0	0
9/13/2024 21:23	20403	ASHF_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
9/13/2024 21:23	67803	WLAN_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
9/13/2024 21:23	61001	DONV_T1	0	0	0	0	0	0	0.17	0.2	0	0	0	0	0	0
9/13/2024 21:23	46004	BERW_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
9/13/2024 21:23	47104	MARL_T1	0	0	0	0	0	0	-0.7	-0.76	0	0	0	0	0	0
9/13/2024 21:23	13001	NBET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 21:23	47101	MARL_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/13/2024 21:23	42201	SHEN_T2	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
9/13/2024 21:23	43304	WATS_T2	0	0	0	0	0	0	-0.23	-0.29	0	0	0	0	0	0
9/13/2024 21:23	16302	ALPA_T2	0	0	0	0	0	0	0.84	0.92	0	0	0	0	0	0
9/13/2024 21:23	10801	CHIH_T1	0	0	0	0	0	0	-0.59	-0.61	1	1	0	900	900	0
9/13/2024 21:24	44801	EDAN_T2	130	234	104	0.46	0.45	-0.01	-1.5	-1.53	0	0	0	0	0	0
9/13/2024 21:24	66505	SMAN_T2	0	3	3	0	0.2	0.2	0.15	0.17	2	2	0	1500	1500	0
9/13/2024 21:24	11405	FARM_T1	1	1	0	5.5	4.9	-0.6	0	0	0	0	0	0	0	0
9/13/2024 21:24	44902	SCOT_T2	0	0	0	0	0	0	-0.72	-0.62	0	0	0	0	0	0
9/13/2024 21:24	46504	LOHA_T1	3	6	3	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
9/13/2024 21:24	67203	TEHI_T1	0	0	0	0	0	0	1.88	1.66	1	1	0	900	900	0
9/13/2024 21:24	11404	FARM_T1	0	0	0	0	0	0	-0.44	-0.42	1	1	0	1200	1200	0
9/13/2024 21:24	67703	WERN_T2	0	0	0	0	0	0	0.02	0.02	1	1	0	900	900	0
9/13/2024 21:24	60701	BREC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 21:24	42802	SELI_T1	0	1	1	0	0.2	0.2	-1.1	-1.19	1	1	0	900	900	0
9/13/2024 21:24	14403	SSLA_T1	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
9/13/2024 21:24	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 21:24	44301	BEAV_T2	0	0	0	0	0	0	-0.23	-0.19	1	1	0	600	600	0
9/13/2024 21:24	57401	SPAN_T1	2	5	3	0.8	0.62	-0.18	0	0	0	0	0	0	0	0
9/13/2024 21:24	57403	SPAN_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
9/13/2024 21:24	20403	ASHF_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
9/13/2024 21:24	60101	COCA_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
9/13/2024 21:24	46506	LOHA_T1	4	4	0	4.43	4.53	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:24	63501	HEID_TBK1-2	30	35	5	0.78	0.29	-0.49	-0.3	-0.01	1	1	0	900	900	0
9/13/2024 21:24	45501	DERR_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:24	46501	LOHA_T1	0	0	0	0	0	0	0.27	0.28	1	1	0	1200	1200	0
9/13/2024 21:24	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/13/2024 21:24	45502	DERR_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
9/13/2024 21:25	40902	JESH_T1	0	1	1	0	0.1	0.1	-0.66	-0.68	0	0	0	0	0	0
9/13/2024 21:25	10702	CATA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:25	46506	LOHA_T1	4	4	0	4.43	4.53	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:25	53903	HALI_T2	2	2	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:25	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 21:25	53902	HALI_T2	1	1	0	5.8	5.4	-0.4	0	0	0	0	0	0	0	0
9/13/2024 21:25	56501	ROCK_T2	2	2	0	0.25	0.5	0.25	0.37	0.24	0	0	0	0	0	0
9/13/2024 21:25	44502	HAMI_T2	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
9/13/2024 21:25	63302	GREE_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
9/13/2024 21:25	46504	LOHA_T1	3	6	3	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
9/13/2024 21:25	10705	CATA_T2	0	0	0	0	0	0	-1.02	-1.09	0	0	0	0	0	0
9/13/2024 21:25	44505	HAMI_T2	0	0	0	0	0	0	0.57	0.54	0	0	0	0	0	0
9/13/2024 21:25	64101	REFR_T1	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 21:25	67602	WARW_T2	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
9/13/2024 21:25	63305	GREE_T1	15	15	0	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
9/13/2024 21:25	12302	LANA_T2	0	0	0	0	0	0	-1.36	-1.37	2	2	0	1500	1500	0
9/13/2024 21:25	45602	WOOL_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
9/13/2024 21:25	43302	WATS_T2	4	4	0	0.53	0.78	0.25	0	0	0	0	0	0	0	0
9/13/2024 21:25	11104	EGYP_T1	0	0	0	0	0	0	0.69	0.66	0	0	0	0	0	0
9/13/2024 21:25	53901	HALI_T2	1	2	1	1.3	0.75	-0.55	-1.14	-1.17	0	0	0	0	0	0
9/13/2024 21:25	61801	EELI_T2	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
9/13/2024 21:25	65502	MOJO_T2	0	232	232	0	0.18	0.18	-1.52	-1.55	1	1	0	900	900	0
9/13/2024 21:25	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 21:25	46501	LOHA_T1	0	0	0	0	0	0	0.27	0.28	1	1	0	1200	1200	0
9/13/2024 21:25	65503	MOJO_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:25	56504	ROCK_T2	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
9/13/2024 21:26	53902	HALI_T2	1	1	0	5.8	5.4	-0.4	0	0	0	0	0	0	0	0
9/13/2024 21:26	46001	BERW_T1	0	0	0	0	0	0	0.78	0.75	0	0	0	0	0	0
9/13/2024 21:26	42201	SHEN_T2	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
9/13/2024 21:26	12701	MACU_T1	0	0	0	0	0	0	-1.09	-1.11	1	1	0	1200	1200	0
9/13/2024 21:26	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
9/13/2024 21:26	46206	DANV_T2	0	0	0	0	0	0	1.39	1.36	2	2	0	2100	2100	0
9/13/2024 21:26	64801	MONE_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/13/2024 21:26	46101	MACI_T2	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
9/13/2024 21:26	67602	WARW_T2	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
9/13/2024 21:26	64802	MONE_T2	0	1	1	0	0.1	0.1	0.14	0.13	0	0	0	0	0	0
9/13/2024 21:26	64101	REFR_T1	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 21:26	44801	EDAN_T2	130	234	104	0.46	0.45	-0.01	0	0	0	0	0	0	0	0
9/13/2024 21:26	43302	WATS_T2	4	4	0	0.53	0.78	0.25	0	0	0	0	0	0	0	0
9/13/2024 21:26	58401	MORO_T1	0	0	0	0	0	0	0.43	0.41	1	1	0	900	900	0
9/13/2024 21:26	43304	WATS_T2	0	0	0	0	0	0	-0.23	-0.29	0	0	0	0	0	0
9/13/2024 21:26	13704	SCHN_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
9/13/2024 21:26	46203	DANV_T2	1	1	0	8.3	8.7	0.4	0	0	0	0	0	0	0	0
9/13/2024 21:26	53901	HALI_T2	1	2	1	1.3	0.75	-0.55	-1.14	-1.17	0	0	0	0	0	0
9/13/2024 21:26	47502	NECO_T1	14	22	8	0.22	0.26	0.04	0.86	0.85	0	0	0	0	0	0
9/13/2024 21:26	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 21:26	53903	HALI_T2	2	2	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:26	60101	COCA_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
9/13/2024 21:26	66505	SMAN_T2	0	3	3	0	0.2	0.2	0.15	0.17	2	2	0	1500	1500	0
9/13/2024 21:26	47101	MARL_T1	1	1	0	0.2	0	-0.2	-0.13	-0.2	0	0	0	0	0	0
9/13/2024 21:26	53601	DALM_T2	1	1	0	1.1	1.3	0.2	-0.03	-0.07	0	0	0	0	0	0
9/13/2024 21:26	44802	EDAN_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
9/13/2024 21:27	52202	DEVO_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
9/13/2024 21:27	44801	EDAN_T2	130	234	104	0.46	0.45	-0.01	-1.5	-1.53	0	0	0	0	0	0
9/13/2024 21:27	41901	REED_T1	9	9	0	0.2	0.33	0.13	0	0	0	0	0	0	0	0
9/13/2024 21:27	61403	REED_T1	0	0	0	0	0	0	0.89	0.86	0	0	0	0	0	0
9/13/2024 21:27	42902	MIDD_T2	0	0	0	0	0	0	-0.58	-0.53	0	0	0	0	0	0
9/13/2024 21:27	53902	HALI_T2	1	1	0	5.8	5.4	-0.4	0	0	0	0	0	0	0	0
9/13/2024 21:27	64203	KINZ_T1	12	0	-12	0.12	0	-0.12	0.41	0.43	0	0	0	0	0	0
9/13/2024 21:27	53901	HALI_T2	1	2	1	1.3	0.75	-0.55	-2.27	-2.33	0	0	0	0	0	0
9/13/2024 21:27	65904	SAKR_T2	0	0	0	0	0	0	-1.7	-1.72	2	2	0	900	900	0
9/13/2024 21:27	67605	WARW_T1	14	19	5	0.49	0.51	0.02	-2.06	-2.11	0	0	0	0	0	0
9/13/2024 21:27	44301	BEAV_T2	0	0	0	0	0	0	-0.23	-0.19	1	1	0	600	600	0
9/13/2024 21:27	55001	NEWP_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
9/13/2024 21:27	63305	GREE_T1	15	15	0	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
9/13/2024 21:27	64204	KINZ_T1	23	4	-19	0.22	0.43	0.21	0	0	0	0	0	0	0	0
9/13/2024 21:27	41902	REED_T1	1	0	-1	0.3	0	-0.3	2.02	1.94	0	0	0	0	0	0
9/13/2024 21:27	47101	MARL_T1	1	1	0	0.2	0	-0.2	-0.13	-0.2	0	0	0	0	0	0
9/13/2024 21:27	63304	GREE_T1	0	0	0	0	0	0	-1.54	-1.57	0	0	0	0	0	0
9/13/2024 21:27	42903	MIDD_T2	2	2	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
9/13/2024 21:27	55101	WERT_T1	0	0	0	0	0	0	-3.62	-3.69	6	6	0	4500	4500	0
9/13/2024 21:27	64201	KINZ_T1	38	5	-33	0.25	0.44	0.19	0	0	0	0	0	0	0	0
9/13/2024 21:27	40201	BEGA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/13/2024 21:27	64101	REFR_T1	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 21:27	42802	SELI_T1	0	1	1	0	0.2	0.2	-1.1	-1.19	1	1	0	900	900	0
9/13/2024 21:27	45802	HEGI_T2	43	46	3	0.95	1.11	0.16	0.48	0.35	0	0	0	0	0	0
9/13/2024 21:27	64202	KINZ_T1	9	3	-6	0.36	0.53	0.17	0	0	0	0	0	0	0	0
9/13/2024 21:27	66505	SMAN_T2	0	3	3	0	0.2	0.2	0.15	0.17	2	2	0	1500	1500	0
9/13/2024 21:27	55002	NEWP_T1	3	5	2	0.33	0.58	0.25	-0.2	-0.2	0	0	0	0	0	0
9/13/2024 21:27	65901	SAKR_T2	1	1	0	8.5	8.7	0.2	0	0	0	0	0	0	0	0
9/13/2024 21:27	44802	EDAN_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
9/13/2024 21:27	53903	HALI_T2	2	2	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:27	57401	SPAN_T1	2	5	3	0.8	0.62	-0.18	-0.65	-0.9	1	1	0	600	600	0
9/13/2024 21:28	53903	HALI_T2	2	2	0	1.8	1.9	0.1	-0.08	-0.08	0	0	0	0	0	0
9/13/2024 21:28	53902	HALI_T2	1	1	0	5.8	5.4	-0.4	-0.17	-0.19	0	0	0	0	0	0
9/13/2024 21:28	43801	SWIL_T1	31	38	7	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
9/13/2024 21:28	64201	KINZ_T1	38	5	-33	0.25	0.44	0.19	0	0	0	0	0	0	0	0
9/13/2024 21:28	47002	HUGH_T2	6	9	3	0.22	0.23	0.01	0	0	0	0	0	0	0	0
9/13/2024 21:28	64101	REFR_T1	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 21:28	53901	HALI_T2	1	2	1	1.3	0.75	-0.55	0	0	0	0	0	0	0	0
9/13/2024 21:28	57401	SPAN_T1	2	5	3	0.8	0.62	-0.18	0	0	0	0	0	0	0	0
9/13/2024 21:28	58401	MORO_T1	0	0	0	0	0	0	-2.05	-2.05	2	2	0	1200	1200	0
9/13/2024 21:28	44201	POIN_T1	75	40	-35	0.23	0.16	-0.07	-1.6	-1.72	2	2	0	2100	2100	0
9/13/2024 21:28	10701	CATA_T2	0	0	0	0	0	0	-0.53	-0.56	1	1	0	1200	1200	0
9/13/2024 21:28	47001	HUGH_T2	3	4	1	8.77	6.95	-1.82	-1.28	-0.75	0	0	0	0	0	0
9/13/2024 21:28	40101	HUNT_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
9/13/2024 21:28	10702	CATA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/13/2024 21:28	44301	BEAV_T2	0	0	0	0	0	0	-0.23	-0.19	1	1	0	600	600	0
9/13/2024 21:28	52004	LING_T2	2	2	0	5.2	5.4	0.2	0.25	0.24	0	0	0	0	0	0
9/13/2024 21:28	64204	KINZ_T1	23	4	-19	0.22	0.43	0.21	0	0	0	0	0	0	0	0
9/13/2024 21:28	64203	KINZ_T1	12	0	-12	0.12	0	-0.12	0.41	0.43	0	0	0	0	0	0
9/13/2024 21:28	42201	SHEN_T2	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
9/13/2024 21:28	57403	SPAN_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
9/13/2024 21:28	43802	SWIL_T1	0	0	0	0	0	0	0.08	0.09	1	1	0	600	600	0
9/13/2024 21:28	64202	KINZ_T1	9	3	-6	0.36	0.53	0.17	0	0	0	0	0	0	0	0
9/13/2024 21:28	55105	WERT_T1	0	0	0	0	0	0	-0.21	-0.22	1	1	0	900	900	0
9/13/2024 21:28	63501	HEID_TBK1-2	30	35	5	0.78	0.29	-0.49	-0.3	-0.01	1	1	0	900	900	0
9/13/2024 21:29	64101	REFR_T1	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 21:29	49804	UNIV_T1	0	2	2	0	0.15	0.15	1.43	1.32	0	0	0	0	0	0
9/13/2024 21:29	41901	REED_T1	9	9	0	0.2	0.33	0.13	0	0	0	0	0	0	0	0
9/13/2024 21:29	42802	SELI_T1	0	1	1	0	0.2	0.2	-2.21	-2.38	2	2	0	1800	1800	0
9/13/2024 21:29	62604	ENGL_T1	0	0	0	0	0	0	-0.63	-0.71	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/13/2024 21:29	44301	BEAV_T2	0	0	0	0	0	0	-0.46	-0.37	2	2	0	1200	1200	0
9/13/2024 21:29	40201	BEGA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/13/2024 21:29	43302	WATS_T2	4	4	0	0.53	0.78	0.25	0	0	0	0	0	0	0	0
9/13/2024 21:29	41902	REED_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/13/2024 21:29	43304	WATS_T2	0	0	0	0	0	0	-0.23	-0.29	0	0	0	0	0	0
9/13/2024 21:29	49803	UNIV_T1	1	1	0	4.9	4.6	-0.3	0	0	0	0	0	0	0	0
9/13/2024 21:29	21501	CEAV_T2	0	0	0	0	0	0	-0.32	-0.23	1	1	0	1200	1200	0
9/13/2024 21:29	40902	JESH_T1	0	1	1	0	0.1	0.1	-0.66	-0.68	0	0	0	0	0	0
9/13/2024 21:30	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 21:30	67201	TEHI_T1	0	0	0	0	0	0	0.81	0.85	0	0	0	0	0	0
9/13/2024 21:30	43302	WATS_T2	4	4	0	0.38	0.78	0.4	0	0	0	0	0	0	0	0
9/13/2024 21:30	64101	REFR_T1	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 21:30	44301	BEAV_T2	0	0	0	0	0	0	-0.23	-0.19	1	1	0	600	600	0
9/13/2024 21:31	53903	HALI_T2	2	2	0	1.9	1.7	-0.2	-0.08	-0.08	0	0	0	0	0	0
9/13/2024 21:31	55002	NEWP_T1	4	5	1	0.53	0.56	0.03	0	0	0	0	0	0	0	0
9/13/2024 21:31	64101	REFR_T1	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/13/2024 21:31	63501	HEID_TBK1-2	35	37	2	0.44	0.39	-0.05	-0.3	-0.01	1	1	0	900	900	0
9/13/2024 21:31	55001	NEWP_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
9/13/2024 21:31	66505	SMAN_T2	3	2	-1	0.17	0.2	0.03	0	0	0	0	0	0	0	0
9/13/2024 21:31	66504	SMAN_T2	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
9/13/2024 21:31	53901	HALI_T2	2	6	4	0.75	0.48	-0.27	0	0	0	0	0	0	0	0
9/13/2024 21:31	10805	CHHI_T2	1	1	0	8	7.7	-0.3	-0.72	-1.03	1	1	0	600	600	0
9/13/2024 21:31	40902	JESH_T1	1	1	0	0.1	0.1	0	-0.66	-0.68	0	0	0	0	0	0
9/13/2024 21:31	53902	HALI_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
9/13/2024 21:31	52202	DEVO_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
9/13/2024 21:31	67602	WARW_T2	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
9/13/2024 21:32	52202	DEVO_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
9/13/2024 21:32	52002	LING_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
9/13/2024 21:32	53903	HALI_T2	2	2	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
9/13/2024 21:32	43302	WATS_T2	4	4	0	0.38	0.78	0.4	0	0	0	0	0	0	0	0
9/13/2024 21:32	53901	HALI_T2	2	6	4	0.75	0.48	-0.27	-2.27	-2.33	0	0	0	0	0	0
9/13/2024 21:32	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2024 21:32	53902	HALI_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
9/13/2024 21:32	57403	SPAN_T1	0	14	14	0	0.15	0.15	0	0	0	0	0	0	0	0
9/13/2024 21:32	52004	LING_T2	2	2	0	5.35	5.55	0.2	0	0	0	0	0	0	0	0
9/13/2024 21:32	55101	WERT_T1	0	0	0	0	0	0	-1.21	-1.23	2	2	0	1500	1500	0
9/13/2024 21:32	43304	WATS_T2	0	0	0	0	0	0	-0.23	-0.29	0	0	0	0	0	0
9/13/2024 21:32	57401	SPAN_T1	2	29	27	1	0.22	-0.78	-0.65	-0.9	1	1	0	600	600	0
9/13/2024 21:33	44301	BEAV_T2	0	0	0	0	0	0	-0.23	-0.19	1	1	0	600	600	0
9/13/2024 22:16	65001	NEFF_T2	0	0	0	0	0	0	-1	-1.04	1	1	0	1200	1200	0
9/13/2024 22:23	14702	TREX_T2	0	0	0	0	0	0	0.92	0.85	0	0	0	0	0	0
9/13/2024 22:43	42802	SELI_T1	1	1	0	0.8	1	0.2	-1.22	-1.2	1	1	0	900	900	0
9/13/2024 22:51	12601	MACA_T1	0	0	0	0	0	0	0.85	0.83	0	0	0	0	0	0
9/13/2024 22:53	52001	LING_T1	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
9/14/2024 6:10	40101	HUNT_T2	0	0	0	0	0	0	-2.49	-2.46	0	0	0	0	0	0
9/14/2024 6:10	47104	MARL_T1	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
9/14/2024 6:10	45902	AUBU_T1	10	1	-9	0.12	0.2	0.08	-2.93	-2.89	0	0	0	0	0	0
9/14/2024 6:10	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/14/2024 6:10	45901	AUBU_T1	0	0	0	0	0	0	2	2	0	0	0	0	0	0
9/14/2024 6:10	42201	SHEN_T2	0	0	0	0	0	0	2.16	2.12	0	0	0	0	0	0
9/14/2024 6:10	14403	SSLA_T1	0	1	1	0	0	0	0.39	0.41	0	0	0	0	0	0
9/14/2024 6:10	42302	MOWR_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
9/14/2024 6:10	16402	MOPO_T1	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
9/14/2024 6:10	13503	MCMI_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
9/14/2024 6:10	20601	GRWO_T2	0	0	0	0	0	0	1.04	1.08	0	0	0	0	0	0
9/14/2024 6:10	45802	HEGI_T2	47	48	1	1.49	1.82	0.33	0.03	0.23	0	0	0	0	0	0
9/14/2024 6:10	48302	ORWI_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
9/14/2024 6:10	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
9/14/2024 6:10	40602	PIGR_T1	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
9/14/2024 6:10	41902	REED_T1	0	0	0	0	0	0	1.44	1.5	0	0	0	0	0	0
9/14/2024 6:10	42601	TUSC_T1	1	1	0	0.4	0.4	0	-0.67	-0.65	2	2	0	1800	1800	0
9/14/2024 6:10	47101	MARL_T1	0	0	0	0	0	0	-0.41	-0.48	0	0	0	0	0	0
9/14/2024 6:10	13905	SEID_T1	0	0	0	0	0	0	-1.09	-1.11	1	1	0	1200	1200	0
9/14/2024 6:10	25603	ARRO_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
9/14/2024 6:10	14404	SSLA_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
9/14/2024 6:10	20403	ASHF_T2	0	0	0	0	0	0	0.4	0.31	0	0	0	0	0	0
9/14/2024 6:10	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/14/2024 6:10	10705	CATA_T2	0	0	0	0	0	0	-0.15	-0.09	0	0	0	0	0	0
9/14/2024 6:10	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/14/2024 6:10	15702	TANN_T2	0	0	0	0	0	0	-1.06	-1.04	0	0	0	0	0	0
9/14/2024 6:10	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/14/2024 6:10	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/14/2024 6:10	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/14/2024 6:11	13503	MCMI_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
9/14/2024 6:11	10705	CATA_T2	0	0	0	0	0	0	-0.75	-0.45	0	0	0	0	0	0
9/14/2024 6:11	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/14/2024 6:11	22904	HARW_T1	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
9/14/2024 6:11	41301	FISH_T1	2	2	0	1.45	1.5	0.05	-0.2	-0.22	0	0	0	0	0	0
9/14/2024 6:11	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
9/14/2024 6:11	48302	ORWI_T2	2	2	0	1	1	0	-0.18	-0.17	0	0	0	0	0	0
9/14/2024 6:11	42302	MOWR_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
9/14/2024 6:11	20403	ASHF_T2	0	0	0	0	0	0	0.4	0.31	0	0	0	0	0	0
9/14/2024 6:11	42601	TUSC_T1	1	1	0	0.4	0.4	0	-0.67	-0.65	2	2	0	1800	1800	0
9/14/2024 6:11	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/14/2024 6:11	47101	MARL_T1	0	0	0	0	0	0	-0.82	-0.95	0	0	0	0	0	0
9/14/2024 6:11	16902	MECK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/14/2024 6:11	20601	GRWO_T2	0	0	0	0	0	0	1.04	1.08	0	0	0	0	0	0
9/14/2024 6:11	15702	TANN_T2	0	0	0	0	0	0	-1.06	-1.04	0	0	0	0	0	0
9/14/2024 6:11	45902	AUBU_T1	10	1	-9	0.12	0.2	0.08	-2.93	-2.89	0	0	0	0	0	0
9/14/2024 6:11	40101	HUNT_T2	0	0	0	0	0	0	-4.14	-4.1	0	0	0	0	0	0
9/14/2024 6:11	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/14/2024 6:11	45802	HEGI_T2	47	48	1	1.49	1.82	0.33	0.03	0.23	0	0	0	0	0	0
9/14/2024 6:11	14404	SSLA_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
9/14/2024 6:11	40602	PIGR_T1	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
9/14/2024 6:11	41903	REED_T1	0	0	0	0	0	0	2.65	2.65	0	0	0	0	0	0
9/14/2024 6:11	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/14/2024 6:11	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/14/2024 6:11	42201	SHEN_T2	0	0	0	0	0	0	2.7	2.65	0	0	0	0	0	0
9/14/2024 6:11	10805	CHHI_T2	1	1	0	8.1	7.7	-0.4	-4.38	-5.64	0	0	0	0	0	0
9/14/2024 6:11	46101	MACJ_T2	0	0	0	0	0	0	0.32	0.38	1	1	0	1200	1200	0
9/14/2024 6:11	45901	AUBU_T1	0	0	0	0	0	0	2	2	0	0	0	0	0	0
9/14/2024 6:11	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/14/2024 6:11	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/14/2024 6:11	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/14/2024 6:11	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/14/2024 6:11	15603	NSTR_T2	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
9/14/2024 6:11	48902	FOSP_T2	0	0	0	0	0	0	-0.11	-0.02	0	0	0	0	0	0
9/14/2024 6:11	16402	MOPO_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
9/14/2024 6:11	25603	ARRO_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
9/14/2024 6:11	14403	SSLA_T1	0	1	1	0	0	0	0.39	0.41	0	0	0	0	0	0
9/14/2024 6:11	41902	REED_T1	0	0	0	0	0	0	1.44	1.5	0	0	0	0	0	0
9/14/2024 6:11	20603	GRWO_T2	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
9/14/2024 6:11	47104	MARL_T1	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
9/14/2024 6:18	16402	MOPO_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
9/14/2024 7:42	10701	CATA_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	1200	1200	0
9/14/2024 8:21	13905	SEID_T1	0	0	0	0	0	0	-1	-0.98	1	1	0	1200	1200	0
9/14/2024 9:07	65001	NEFF_T2	0	0	0	0	0	0	-1.03	-0.95	1	1	0	1200	1200	0
9/14/2024 9:39	11507	FREE_T2	0	0	0	0	0	0	-0.02	0.12	0	0	0	0	0	0
9/14/2024 10:00	59003	MIFF_T1	0	1	1	0	0.4	0.4	0.22	0.29	0	0	0	0	0	0
9/14/2024 10:00	59002	MIFF_T1	0	5	5	0	0.46	0.46	0	0	0	0	0	0	0	0
9/14/2024 10:00	46602	LACR_T1	0	0	0	0	0	0	-0.91	-0.91	0	0	0	0	0	0
9/14/2024 10:00	67503	WEWI_T2	1	1	0	6.2	5.8	-0.4	-0.15	0.01	0	0	0	0	0	0
9/14/2024 10:00	53901	HALI_T2	1	1	0	0.2	0.2	0	-1.22	-1.15	0	0	0	0	0	0
9/14/2024 10:00	28102	TWLA_T2	5	19	14	0.44	0.44	0	0.23	0.24	0	0	0	0	0	0
9/14/2024 10:00	53903	HALI_T2	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/14/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
9/14/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
9/14/2024 10:00	53902	HALI_T2	1	1	0	4.6	4.8	0.2	0	0	0	0	0	0	0	0
9/14/2024 10:00	28805	LAKE_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
9/14/2024 10:00	52403	DERPA_T2	37	45	8	0.44	0.48	0.04	-0.8	-0.77	0	0	0	0	0	0
9/14/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
9/14/2024 10:00	59001	MIFF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/14/2024 10:42	11507	FREE_T2	0	0	0	0	0	0	0.33	0.37	0	0	0	0	0	0
9/14/2024 13:30	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/14/2024 13:30	46801	HEPB_T2	0	3	3	0	1	1	0.88	-0.01	0	0	0	0	0	0
9/14/2024 14:30	65604	QVIL_T2	0	1	1	0	0	0	0.61	0.61	0	0	0	0	0	0
9/14/2024 14:34	65604	QVIL_T2	0	1	1	0	0	0	0.61	0.61	0	0	0	0	0	0
9/14/2024 15:04	12202	FOGE_T2	2	2	0	1.3	1.4	0.1	0	0	1	1	0	600	600	0
9/14/2024 15:05	47101	MARL_T1	7	19	12	0.87	1.05	0.18	0.03	0.13	0	0	0	0	0	0
9/14/2024 15:10	57403	SPAN_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
9/14/2024 15:10	57401	SPAN_T1	0	0	0	0	0	0	-2.18	-1.99	2	2	0	1200	1200	0
9/14/2024 15:11	57401	SPAN_T1	0	0	0	0	0	0	-2.18	-1.99	2	2	0	1200	1200	0
9/14/2024 15:11	57403	SPAN_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
9/14/2024 15:12	57403	SPAN_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
9/14/2024 15:12	57401	SPAN_T1	0	0	0	0	0	0	-1.09	-1	1	1	0	600	600	0
9/14/2024 15:18	65604	QVIL_T2	0	1	1	0	0	0	0.62	0.62	0	0	0	0	0	0
9/14/2024 15:18	65602	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/14/2024 21:12	11507	FREE_T2	0	0	0	0	0	0	0.6	0.4	0	0	0	0	0	0
9/14/2024 21:13	65601	QVIL_T2	0	4	4	0	1.55	1.55	0	0	0	0	0	0	0	0
9/14/2024 21:13	65604	QVIL_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
9/14/2024 21:15	57401	SPAN_T1	0	0	0	0	0	0	-1.16	-1.14	1	1	0	600	600	0
9/14/2024 21:16	12202	FOGE_T2	80	0	-80	0.24	0	-0.24	0	0	1	1	0	600	600	0
9/14/2024 21:19	57401	SPAN_T1	0	0	0	0	0	0	-1.16	-1.14	1	1	0	600	600	0
9/14/2024 21:20	65604	QVIL_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
9/14/2024 21:20	65601	QVIL_T2	4	4	0	1.55	1.4	-0.15	0	0	0	0	0	0	0	0
9/14/2024 21:27	46801	HEPB_T2	2	2	0	1.05	1.4	0.35	-0.23	-0.23	0	0	0	0	0	0
9/14/2024 21:29	57401	SPAN_T1	0	0	0	0	0	0	-2.27	-2.42	2	2	0	1200	1200	0
9/14/2024 21:35	47101	MARL_T1	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
9/14/2024 23:46	57403	SPAN_T1	117	170	53	0.24	0.38	0.14	0	0	0	0	0	0	0	0
9/14/2024 23:46	57401	SPAN_T1	0	2	2	0	0.2	0.2	-0.85	-0.92	1	1	0	600	600	0
9/15/2024 6:00	14706	TREX_T1	0	0	0	0	0	0	-1.41	-1.34	2	2	0	2100	2100	0
9/15/2024 6:00	14704	TREX_T1	1	1	0	2.3	2.5	0.2	0	0	0	0	0	0	0	0
9/15/2024 6:02	61001	DONV_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/15/2024 7:17	67001	STHI_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
9/15/2024 7:24	10603	BLGL_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
9/15/2024 7:32	10805	CHHI_T2	1	2	1	8.2	8.2	0	-0.78	0	0	0	0	0	0	0
9/15/2024 7:45	62104	ELAN_T1	0	0	0	0	0	0	1.35	1.44	0	0	0	0	0	0
9/15/2024 7:47	54501	ENOL_T2	0	0	0	0	0	0	-0.52	-0.48	0	0	0	0	0	0
9/15/2024 7:47	26402	INOR_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
9/15/2024 7:47	26401	INOR_T1	1	1	0	9.2	9	-0.2	0	0	0	0	0	0	0	0
9/15/2024 7:47	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/15/2024 7:53	53301	GRAT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 7:53	64603	LEOL_T1	0	0	0	0	0	0	-0.28	-0.23	0	0	0	0	0	0
9/15/2024 7:55	66903	SHIL_T2	0	0	0	0	0	0	-0.91	-0.88	0	0	0	0	0	0
9/15/2024 7:55	66901	SHIL_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
9/15/2024 7:56	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 7:57	50501	MECH_T1	4	4	0	0.48	0.25	-0.23	0	0	0	0	0	0	0	0
9/15/2024 7:57	50502	MECH_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
9/15/2024 7:57	50506	MECH_T1	0	0	0	0	0	0	-0.29	-0.24	0	0	0	0	0	0
9/15/2024 7:58	45303	WBER_T2	1	1	0	9.8	9.8	0	0	0	0	0	0	0	0	0
9/15/2024 7:58	45302	WBER_T2	0	0	0	0	0	0	0.72	0.79	0	0	0	0	0	0
9/15/2024 7:58	52502	PROG_T2	0	0	0	0	0	0	0	-0.52	0	1	1	0	900	900
9/15/2024 8:00	55508	HERS_T2	0	0	0	0	0	0	-2.46	-2.47	0	0	0	0	0	0
9/15/2024 10:36	42601	TUSC_T1	0	0	0	0	0	0	-0.39	-0.47	1	2	1	1200	1800	600
9/15/2024 10:37	66505	SMAN_T2	0	0	0	0	0	0	0.47	0.18	3	3	0	1700	1700	0
9/15/2024 10:37	14303	SUMN_T1	3	3	0	7.7	7.67	-0.03	0	0	0	0	0	0	0	0
9/15/2024 10:37	24902	WHHA_T1	1	1	0	0.6	0	-0.6	0.8	0.8	0	0	0	0	0	0
9/15/2024 10:37	42601	TUSC_T1	0	0	0	0	0	0	-0.39	-0.47	2	2	0	1800	1800	0
9/15/2024 10:37	66502	SMAN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/15/2024 10:37	66504	SMAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/15/2024 10:37	14308	SUMN_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
9/15/2024 10:37	24901	WHHA_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
9/15/2024 10:38	67605	WARW_T1	1	2	1	0.1	0.35	0.25	-0.99	-0.95	0	0	0	0	0	0
9/15/2024 10:39	44302	BEAV_T2	3	4	1	0.43	0.5	0.07	0	0	0	0	0	0	0	0
9/15/2024 10:39	44301	BEAV_T2	6	7	1	0.27	0.34	0.07	0	0	0	0	0	0	0	0
9/15/2024 10:39	20401	ASHF_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
9/15/2024 10:39	45902	AUBU_T1	3	3	0	0.67	0.83	0.16	-0.81	-0.77	0	0	0	0	0	0
9/15/2024 10:39	20403	ASHF_T2	1	1	0	0.3	0.2	-0.1	0.21	0.3	0	0	0	0	0	0
9/15/2024 10:39	47101	MARL_T1	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
9/15/2024 10:41	67503	WEWI_T2	1	1	0	6	5.7	-0.3	-0.02	0.02	0	0	0	0	0	0
9/15/2024 10:41	14502	SCHO_T1	1	1	0	0.5	0.6	0.1	0.58	0.65	0	0	0	0	0	0
9/15/2024 10:41	55002	NEWP_T1	4	5	1	0.9	0.92	0.02	0	0	0	0	0	0	0	0
9/15/2024 10:41	55001	NEWP_T1	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
9/15/2024 10:42	56501	ROCK_T2	1	1	0	1.4	1.7	0.3	-1.04	-1.02	0	0	0	0	0	0
9/15/2024 10:42	20403	ASHF_T2	1	1	0	0.3	0.2	-0.1	0.21	0.3	0	0	0	0	0	0
9/15/2024 10:42	41902	REED_T1	0	6	6	0	0	0	0.91	0.92	0	0	0	0	0	0
9/15/2024 10:42	56504	ROCK_T2	0	0	0	0	0	0	-0.13	-0.08	0	0	0	0	0	0
9/15/2024 10:42	65001	NEFF_T2	0	0	0	0	0	0	-0.9	-0.83	1	1	0	1200	1200	0
9/15/2024 10:42	20401	ASHF_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
9/15/2024 10:42	42801	SELI_T1	0	0	0	0	0	0	-1.16	-1.17	1	1	0	1200	1200	0
9/15/2024 10:43	67603	WARW_T1	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
9/15/2024 10:43	67605	WARW_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
9/15/2024 10:43	56501	ROCK_T2	1	1	0	1.4	1.7	0.3	-1.04	-1.02	0	0	0	0	0	0
9/15/2024 10:43	51603	DUKE_T1	0	0	0	0	0	0	-0.2	-0.11	0	0	0	0	0	0
9/15/2024 10:45	45902	AUBU_T1	3	3	0	0.63	0.83	0.2	-0.41	-0.39	0	0	0	0	0	0
9/15/2024 10:46	25503	MADI_T1	64	89	25	0.19	0.25	0.06	-0.85	-0.82	0	0	0	0	0	0
9/15/2024 10:46	25501	MADI_T1	4	5	1	1.2	1.18	-0.02	0	0	0	0	0	0	0	0
9/15/2024 10:46	25502	MADI_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/15/2024 10:46	15703	TANN_T2	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
9/15/2024 10:46	15702	TANN_T2	0	0	0	0	0	0	-0.28	-0.25	0	0	0	0	0	0
9/15/2024 10:47	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/15/2024 10:47	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 10:47	42201	SHEN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 10:47	48302	ORWI_T2	1	2	1	0.3	0.55	0.25	-0.6	-0.57	0	0	0	0	0	0
9/15/2024 10:47	51101	CARL_T1	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
9/15/2024 10:47	64602	LEOL_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
9/15/2024 10:47	57401	SPAN_T1	0	0	0	0	0	0	-0.93	-0.98	1	1	0	600	600	0
9/15/2024 10:47	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 10:47	51102	CARL_T1	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
9/15/2024 10:48	48302	ORWI_T2	1	2	1	0.3	0.55	0.25	-1.2	-1.14	0	0	0	0	0	0
9/15/2024 10:48	16402	MOPO_T1	0	0	0	0	0	0	0.54	0.61	0	0	0	0	0	0
9/15/2024 10:48	57401	SPAN_T1	0	0	0	0	0	0	-1.87	-1.97	2	2	0	1200	1200	0
9/15/2024 10:49	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
9/15/2024 10:49	45501	DERR_T2	0	0	0	0	0	0	-0.39	-0.38	2	2	0	1800	1800	0
9/15/2024 10:49	44301	BEAV_T2	7	6	-1	0.33	0.36	0.03	0	0	0	0	0	0	0	0
9/15/2024 10:49	44302	BEAV_T2	4	3	-1	0.43	0.57	0.14	0.29	0.3	0	0	0	0	0	0
9/15/2024 10:50	42202	SHEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 10:50	24902	WHHA_T1	0	2	2	0	0.2	0.2	0.8	0.8	0	0	0	0	0	0
9/15/2024 10:50	46301	ROHR_T1	1	1	0	3.4	3.3	-0.1	0.22	0.2	0	0	0	0	0	0
9/15/2024 10:50	43304	WATS_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
9/15/2024 10:50	46302	ROHR_T1	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/15/2024 10:50	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/15/2024 10:50	42201	SHEN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 10:50	41902	REED_T1	0	6	6	0	0	0	0.91	0.92	0	0	0	0	0	0
9/15/2024 10:50	24901	WHHA_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/15/2024 10:51	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
9/15/2024 10:51	57401	SPAN_T1	0	0	0	0	0	0	-0.98	-0.95	1	1	0	600	600	0
9/15/2024 10:51	56501	ROCK_T2	1	2	1	1.7	1	-0.7	-2.05	-1.94	0	0	0	0	0	0
9/15/2024 10:51	57205	ROSS_T1	1	1	0	1.1	0.9	-0.2	-0.62	-0.6	1	1	0	900	900	0
9/15/2024 10:51	44902	SCOT_T2	0	0	0	0	0	0	-2.02	-2.04	0	0	0	0	0	0
9/15/2024 10:51	44901	SCOT_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
9/15/2024 10:52	56501	ROCK_T2	1	2	1	1.7	1	-0.7	-1.02	-0.97	0	0	0	0	0	0
9/15/2024 10:53	20403	ASHF_T2	1	0	-1	0.2	0	-0.2	0.3	0.34	0	0	0	0	0	0
9/15/2024 10:53	20401	ASHF_T2	2	1	-1	1.15	0	-1.15	0	0	0	0	0	0	0	0
9/15/2024 10:54	43304	WATS_T2	0	0	0	0	0	0	0.25	0.18	0	0	0	0	0	0
9/15/2024 10:54	66504	SMAN_T2	0	1	1	0	0.1	0.1	-1.35	-1.33	1	1	0	1200	1200	0
9/15/2024 10:54	66502	SMAN_T2	1	1	0	0.3	0.4	0.1	-0.05	0.05	0	0	0	0	0	0
9/15/2024 10:55	67201	TEHI_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/15/2024 10:55	45902	AUBU_T1	3	3	0	0.63	0.83	0.2	-0.39	-0.32	0	0	0	0	0	0
9/15/2024 10:55	43304	WATS_T2	0	0	0	0	0	0	0.25	0.18	0	0	0	0	0	0
9/15/2024 10:55	66502	SMAN_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/15/2024 10:55	66504	SMAN_T2	0	1	1	0	0.1	0.1	-2.69	-2.65	2	2	0	2400	2400	0
9/15/2024 10:55	67203	TEHI_T1	0	0	0	0	0	0	1.07	1.08	1	1	0	900	900	0
9/15/2024 10:56	45902	AUBU_T1	3	3	0	0.63	0.83	0.2	0	0	0	0	0	0	0	0
9/15/2024 10:56	20403	ASHF_T2	1	0	-1	0.2	0	-0.2	0.3	0.34	0	0	0	0	0	0
9/15/2024 10:56	45901	AUBU_T1	0	0	0	0	0	0	0.99	1.05	0	0	0	0	0	0
9/15/2024 10:56	20401	ASHF_T2	2	1	-1	1.15	0	-1.15	0	0	0	0	0	0	0	0
9/15/2024 10:56	56501	ROCK_T2	1	2	1	1.7	1	-0.7	-1.02	-0.97	0	0	0	0	0	0
9/15/2024 10:56	16101	BING_T2	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
9/15/2024 10:57	46002	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/15/2024 10:57	46004	BERW_T2	1	1	0	0.2	0.2	0	-0.62	-0.57	0	0	0	0	0	0
9/15/2024 10:58	45902	AUBU_T1	3	3	0	0.63	0.83	0.2	0	0	0	0	0	0	0	0
9/15/2024 10:58	45901	AUBU_T1	0	0	0	0	0	0	0.99	1.05	0	0	0	0	0	0
9/15/2024 10:58	20601	GRWO_T2	0	4	4	0	0	0	0.71	0.74	0	0	0	0	0	0
9/15/2024 10:59	11202	ELHE_T2	0	0	0	0	0	0	0.23	0.24	1	1	0	1200	1200	0
9/15/2024 11:00	22602	KIMB_T1	1	2	1	0.1	0.4	0.3	0.44	0.43	0	0	0	0	0	0
9/15/2024 11:00	22601	KIMB_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/15/2024 11:00	44502	HAMI_T2	1	1	0	1.8	1.7	-0.1	-0.64	-0.55	0	0	0	0	0	0
9/15/2024 11:00	40602	PIGR_T1	1	1	0	1.5	1.7	0.2	-0.53	-0.47	1	1	0	600	600	0
9/15/2024 11:01	64204	KINZ_T1	3	3	0	0.73	0.87	0.14	0	0	0	0	0	0	0	0
9/15/2024 11:01	64203	KINZ_T1	0	0	0	0	0	0	-0.3	-0.28	1	1	0	600	600	0
9/15/2024 11:01	67503	WEWI_T2	1	1	0	5.6	6.2	0.6	0.02	0.69	0	0	0	0	0	0
9/15/2024 11:01	40101	HUNT_T2	3	13	10	1.07	0.67	-0.4	-0.51	-0.5	0	0	0	0	0	0
9/15/2024 11:01	16402	MOPO_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
9/15/2024 11:01	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/15/2024 11:01	44502	HAMI_T2	1	1	0	1.8	1.7	-0.1	-0.64	-0.55	0	0	0	0	0	0
9/15/2024 11:01	25402	LAHA_T2	0	0	0	0	0	0	-0.3	-0.2	0	0	0	0	0	0
9/15/2024 11:02	63501	HEID_TBK1-2	46	49	3	0.54	0.79	0.25	-0.15	-0.13	1	1	0	900	900	0
9/15/2024 11:03	51306	WIND_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
9/15/2024 11:03	44202	POIN_T2	0	0	0	0	0	0	-0.87	-0.84	1	1	0	1200	1200	0
9/15/2024 11:05	45501	DERR_T2	0	0	0	0	0	0	-0.38	-0.29	2	2	0	1800	1800	0
9/15/2024 11:48	15703	TANN_T2	1	1	0	6.2	6.4	0.2	0	0	0	0	0	0	0	0
9/15/2024 11:48	15702	TANN_T2	0	0	0	0	0	0	-0.35	-0.13	0	0	0	0	0	0
9/15/2024 11:48	64101	REFR_T1	4	25	21	0.23	0.34	0.11	-0.01	-0.01	0	0	0	0	0	0
9/15/2024 11:49	48303	ORWI_T2	0	0	0	0	0	0	0.74	0.7	0	0	0	0	0	0
9/15/2024 11:49	65205	PRIN_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
9/15/2024 11:49	48302	ORWI_T2	2	2	0	0.1	0.4	0.3	-1.02	-0.92	0	0	0	0	0	0
9/15/2024 11:49	13905	SEID_T1	0	0	0	0	0	0	-0.67	-0.62	1	1	0	1200	1200	0
9/15/2024 11:50	59101	WALK_T2	0	0	0	0	0	0	-0.39	-0.32	0	0	0	0	0	0
9/15/2024 11:50	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/15/2024 11:52	42802	SELI_T1	0	0	0	0	0	0	-1.02	-1.05	1	1	0	900	900	0
9/15/2024 11:53	67703	WERN_T2	0	1	1	0	0.1	0.1	-0.54	-0.52	1	1	0	900	900	0
9/15/2024 11:54	42802	SELI_T1	0	0	0	0	0	0	-1.02	-1.05	1	1	0	900	900	0
9/15/2024 11:54	40201	BEGA_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/15/2024 11:55	43304	WATS_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
9/15/2024 11:55	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 11:56	11507	FREE_T2	0	0	0	0	0	0	0.45	0.49	0	0	0	0	0	0
9/15/2024 11:56	20401	ASHF_T2	1	4	3	0.9	1.08	0.18	0	0	0	0	0	0	0	0
9/15/2024 11:56	40201	BEGA_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/15/2024 11:56	20403	ASHF_T2	0	0	0	0	0	0	0.43	0.56	0	0	0	0	0	0
9/15/2024 11:56	54505	ENOL_T2	0	0	0	0	0	0	-0.62	-0.62	1	1	0	600	600	0
9/15/2024 11:57	60101	COCA_T1	0	0	0	0	0	0	0.58	0.72	0	0	0	0	0	0
9/15/2024 11:57	40201	BEGA_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/15/2024 11:58	26401	INOR_T1	1	2	1	7	7.3	0.3	0.55	0.56	0	0	0	0	0	0
9/15/2024 11:58	61504	EPET_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
9/15/2024 11:58	60101	COCA_T1	0	0	0	0	0	0	0.58	0.72	0	0	0	0	0	0
9/15/2024 11:58	53601	DALM_T2	1	1	0	0.2	0.1	-0.1	-0.02	-0.02	0	0	0	0	0	0
9/15/2024 11:58	61501	EPET_T2	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
9/15/2024 11:59	41001	LAUR_T2	1	2	1	1.3	0.85	-0.45	0	0	0	0	0	0	0	0
9/15/2024 11:59	67605	WARW_T1	1	2	1	0.5	0.35	-0.15	-1.08	-1.04	0	0	0	0	0	0
9/15/2024 11:59	41002	LAUR_T2	4	4	0	0.33	0.4	0.07	0.16	0.17	0	0	0	0	0	0
9/15/2024 12:01	44505	HAMI_T2	0	1	1	0	0.4	0.4	0.41	0.43	0	0	0	0	0	0
9/15/2024 12:01	44502	HAMI_T2	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
9/15/2024 12:02	44502	HAMI_T2	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
9/15/2024 12:02	16203	POFA_T2	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
9/15/2024 12:02	44505	HAMI_T2	0	1	1	0	0.4	0.4	0.41	0.43	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/15/2024 12:02	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 12:03	16203	POFA_T2	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
9/15/2024 12:03	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 12:03	12701	MACU_T1	2	1	-1	0.4	0	-0.4	0.22	0.22	0	0	0	0	0	0
9/15/2024 12:04	13503	MCMI_T2	234	219	-15	0.65	0.59	-0.06	-1.71	-1.62	0	0	0	0	0	0
9/15/2024 12:04	64101	REFR_T1	20	23	3	0.36	0.72	0.36	-0.01	-0.01	0	0	0	0	0	0
9/15/2024 12:04	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/15/2024 12:06	42802	SELI_T1	0	0	0	0	0	0	-2.05	-2.11	2	2	0	1800	1800	0
9/15/2024 12:06	56504	ROCK_T2	0	0	0	0	0	0	0.02	0.06	0	0	0	0	0	0
9/15/2024 12:06	56501	ROCK_T2	10	8	-2	0.65	0.25	-0.4	-2.2	-2.14	0	0	0	0	0	0
9/15/2024 12:07	42802	SELI_T1	0	0	0	0	0	0	-3.16	-3.2	3	3	0	2700	2700	0
9/15/2024 12:07	20802	LOPO_T1	0	0	0	0	0	0	-1.15	-1.14	1	1	0	600	600	0
9/15/2024 12:07	56501	ROCK_T2	10	8	-2	0.65	0.25	-0.4	-2.2	-2.14	0	0	0	0	0	0
9/15/2024 12:08	25603	ARRO_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/15/2024 12:08	64101	REFR_T1	20	23	3	0.36	0.72	0.36	-0.01	-0.01	0	0	0	0	0	0
9/15/2024 12:08	53601	DALM_T2	1	1	0	0.1	0.1	0	-0.02	0	0	0	0	0	0	0
9/15/2024 12:09	10801	CHHI_T1	4	5	1	0.3	0.86	0.56	-1.58	-1.58	3	3	0	2100	2100	0
9/15/2024 12:09	53601	DALM_T2	1	1	0	0.1	0.1	0	-0.02	0	0	0	0	0	0	0
9/15/2024 12:11	20403	ASHF_T2	0	0	0	0	0	0	0.56	0.51	0	0	0	0	0	0
9/15/2024 12:11	13503	MCMI_T2	234	219	-15	0.65	0.59	-0.06	-0.81	-0.79	0	0	0	0	0	0
9/15/2024 12:11	20401	ASHF_T2	4	4	0	1.13	0.8	-0.33	0	0	0	0	0	0	0	0
9/15/2024 12:11	43304	WATS_T2	0	1	1	0	0	0	0.23	0.28	0	0	0	0	0	0
9/15/2024 12:11	10801	CHHI_T1	4	5	1	0.3	0.86	0.56	-1.58	-1.58	3	3	0	2100	2100	0
9/15/2024 12:11	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 12:11	28702	HAML_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
9/15/2024 12:11	28701	HAML_T2	3	3	0	0.5	0.67	0.17	0	0	0	0	0	0	0	0
9/15/2024 12:12	40201	BEGA_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
9/15/2024 12:12	44801	EDAN_T2	9	6	-3	0.42	0.56	0.14	0	0	0	0	0	0	0	0
9/15/2024 12:12	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 12:12	44802	EDAN_T2	0	0	0	0	0	0	-1.75	-1.74	0	0	0	0	0	0
9/15/2024 12:14	56501	ROCK_T2	10	8	-2	0.65	0.25	-0.4	-2.2	-2.14	0	0	0	0	0	0
9/15/2024 12:14	44802	EDAN_T2	0	0	0	0	0	0	-3.5	-3.47	0	0	0	0	0	0
9/15/2024 12:14	20601	GRWO_T2	1	3	2	0.1	0	-0.1	0.76	0.77	0	0	0	0	0	0
9/15/2024 12:14	44801	EDAN_T2	9	6	-3	0.42	0.56	0.14	-1.48	-1.43	0	0	0	0	0	0
9/15/2024 12:15	44801	EDAN_T2	6	4	-2	0.5	0.65	0.15	-1.48	-1.43	0	0	0	0	0	0
9/15/2024 12:15	44802	EDAN_T2	0	0	0	0	0	0	-1.75	-1.74	0	0	0	0	0	0
9/15/2024 12:15	40101	HUNT_T2	11	17	6	0.48	0.5	0.02	0	0	0	0	0	0	0	0
9/15/2024 12:16	44802	EDAN_T2	0	0	0	0	0	0	-1.75	-1.74	0	0	0	0	0	0
9/15/2024 12:16	56504	ROCK_T2	0	0	0	0	0	0	0.02	0.06	0	0	0	0	0	0
9/15/2024 12:16	56501	ROCK_T2	8	2	-6	0.25	0.55	0.3	0	0	0	0	0	0	0	0
9/15/2024 12:16	44801	EDAN_T2	6	4	-2	0.5	0.65	0.15	0	0	0	0	0	0	0	0
9/15/2024 12:19	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 12:19	40602	PIGR_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/15/2024 12:22	40602	PIGR_T1	1	1	0	0.3	0.1	-0.2	-1.59	-1.57	1	1	0	600	600	0
9/15/2024 12:22	56501	ROCK_T2	8	2	-6	0.25	0.55	0.3	-2.14	-2.08	0	0	0	0	0	0
9/15/2024 12:24	41902	REED_T1	0	6	6	0	0.58	0.58	0	0	0	0	0	0	0	0
9/15/2024 12:24	41903	REED_T1	0	0	0	0	0	0	-0.61	-0.62	2	2	0	2400	2400	0
9/15/2024 12:25	53601	DALM_T2	1	1	0	0.1	0.3	0.2	0	-0.01	0	0	0	0	0	0
9/15/2024 12:29	63402	HONY_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/15/2024 12:29	24902	WHHA_T1	1	3	2	0.7	0.6	-0.1	0.84	0.88	0	0	0	0	0	0
9/15/2024 12:29	24901	WHHA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/15/2024 12:29	63403	HONY_T2	0	0	0	0	0	0	0.26	0.31	0	0	0	0	0	0
9/15/2024 12:31	67503	WEWI_T2	1	1	0	5.6	5.2	-0.4	-0.55	-0.52	0	0	0	0	0	0
9/15/2024 12:33	55002	NEWP_T1	1	1	0	2.6	2.3	-0.3	-0.09	-0.1	0	0	0	0	0	0
9/15/2024 12:33	65503	MOJO_T2	0	0	0	0	0	0	-0.64	-0.6	1	1	0	900	900	0
9/15/2024 12:33	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 12:34	44901	SCOT_T2	0	0	0	0	0	0	-0.1	-0.04	0	0	0	0	0	0
9/15/2024 12:35	55002	NEWP_T1	1	1	0	2.6	2.3	-0.3	0	0	0	0	0	0	0	0
9/15/2024 12:35	54701	NEBL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/15/2024 12:35	55001	NEWP_T1	0	1	1	0	0	0	-0.05	-0.03	0	0	0	0	0	0
9/15/2024 12:38	47101	MARL_T1	10	5	-5	1.39	1.84	0.45	0.01	-0.04	0	0	0	0	0	0
9/15/2024 12:38	44902	SCOT_T2	0	0	0	0	0	0	-1.9	-1.93	0	0	0	0	0	0
9/15/2024 12:39	21501	CEAV_T2	0	0	0	0	0	0	0.69	1.03	1	1	0	1200	1200	0
9/15/2024 12:39	48301	ORWI_T1	2	2	0	4.25	4.8	0.55	-0.59	-0.57	1	1	0	900	900	0
9/15/2024 12:40	64101	REFR_T1	15	37	22	0.65	0.43	-0.22	-0.01	-0.01	0	0	0	0	0	0
9/15/2024 12:40	24902	WHHA_T1	2	2	0	0.35	1.1	0.75	0.88	0.86	0	0	0	0	0	0
9/15/2024 12:41	16103	BING_T2	0	1	1	0	0.2	0.2	-1.1	-1.5	1	2	1	900	1500	600
9/15/2024 12:41	16102	BING_T2	1	5	4	0.7	0.44	-0.26	0	0	0	0	0	0	0	0
9/15/2024 12:42	10805	CHHI_T2	1	1	0	8.3	7.9	-0.4	-1.26	-1.5	1	1	0	600	600	0
9/15/2024 12:42	40201	BEGA_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
9/15/2024 12:43	46801	HEPB_T2	0	2	2	0	1.45	1.45	-0.03	-0.04	0	0	0	0	0	0
9/15/2024 12:43	46803	HEPB_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/15/2024 12:44	63501	HEID_TBK1-2	48	47	-1	1.19	1.25	0.06	0.08	0.04	1	1	0	900	900	0
9/15/2024 12:45	10805	CHHI_T2	1	1	0	8.3	7.9	-0.4	-1.26	-1.5	1	1	0	600	600	0
9/15/2024 12:46	47001	HUGH_T2	3	3	0	8.63	8.13	-0.5	-1.93	-1.96	1	1	0	900	900	0
9/15/2024 12:47	46803	HEPB_T2	1	1	0	0.5	0.4	-0.1	0.69	0.69	0	0	0	0	0	0
9/15/2024 12:47	46801	HEPB_T2	2	2	0	1.45	1	-0.45	0	0	0	0	0	0	0	0
9/15/2024 12:48	67503	WEWI_T2	1	1	0	5.1	5.2	0.1	-0.52	-0.51	0	0	0	0	0	0
9/15/2024 12:49	44802	EDAN_T2	0	0	0	0	0	0	-1.67	-1.7	0	0	0	0	0	0
9/15/2024 12:49	44801	EDAN_T2	2	5	3	1.15	0.56	-0.59	0	0	0	0	0	0	0	0
9/15/2024 12:51	55001	NEWP_T1	0	1	1	0	0.6	0.6	-0.02	-0.03	0	0	0	0	0	0
9/15/2024 12:51	55105	WERT_T1	0	0	0	0	0	0	0.07	0.07	1	1	0	900	900	0
9/15/2024 12:51	55101	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 12:51	55002	NEWP_T1	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
9/15/2024 12:52	24902	WHHA_T1	2	2	0	1.15	0.9	-0.25	0	0	0	0	0	0	0	0
9/15/2024 12:52	24901	WHHA_T1	0	0	0	0	0	0	-0.59	-0.56	0	0	0	0	0	0
9/15/2024 12:53	43304	WATS_T2	0	1	1	0	1	1	-0.86	-0.87	0	0	0	0	0	0
9/15/2024 12:53	55101	WERT_T1	0	1	1	0	0	0	-1.32	-1.36	2	2	0	1500	1500	0
9/15/2024 12:54	43304	WATS_T2	0	1	1	0	1	1	-0.86	-0.87	0	0	0	0	0	0
9/15/2024 12:54	55101	WERT_T1	0	1	1	0	0	0	-2.64	-2.71	4	4	0	3000	3000	0
9/15/2024 12:54	42601	TUSC_T1	0	1	1	0	0	0	-0.27	-0.17	2	2	0	1800	1800	0
9/15/2024 12:55	43304	WATS_T2	0	1	1	0	1	1	-1.72	-1.73	0	0	0	0	0	0
9/15/2024 12:55	55001	NEWP_T1	0	1	1	0	0.6	0.6	-0.02	-0.03	0	0	0	0	0	0
9/15/2024 12:55	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
9/15/2024 12:55	12401	MILF_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
9/15/2024 12:55	55002	NEWP_T1	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
9/15/2024 12:55	12402	MILF_T1	1	2	1	0.8	1.9	1.1	-0.18	-0.14	1	1	0	1200	1200	0
9/15/2024 12:55	55101	WERT_T1	0	1	1	0	0	0	-1.32	-1.36	2	2	0	1500	1500	0
9/15/2024 12:55	12403	MILF_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
9/15/2024 12:56	53601	DALM_T2	1	1	0	0.3	0.4	0.1	0.06	-0.04	0	0	0	0	0	0
9/15/2024 12:56	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
9/15/2024 12:57	43304	WATS_T2	0	1	1	0	1	1	-0.86	-0.87	0	0	0	0	0	0
9/15/2024 12:57	43301	WATS_T2	0	0	0	0	0	0	-0.33	-0.31	1	1	0	900	900	0
9/15/2024 12:58	24105	EHAZ_T1	4	4	0	6.28	6.38	0.1	0	0	0	0	0	0	0	0
9/15/2024 12:58	24102	EHAZ_T1	2	1	-1	0.85	0	-0.85	0.05	0.02	0	0	0	0	0	0
9/15/2024 12:58	24104	EHAZ_T1	1	4	3	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
9/15/2024 12:58	24101	EHAZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/15/2024 12:59	54506	ENOL_T2	0	0	0	0	0	0	0.89	0.97	1	1	0	600	600	0
9/15/2024 12:59	60101	COCA_T1	0	0	0	0	0	0	0.67	0.7	0	0	0	0	0	0
9/15/2024 13:00	60101	COCA_T1	0	0	0	0	0	0	0.67	0.7	0	0	0	0	0	0
9/15/2024 13:01	63501	HEID_TBK1-2	47	47	0	1.31	1.42	0.11	0.04	0.06	1	1	0	900	900	0
9/15/2024 13:02	60101	COCA_T1	0	0	0	0	0	0	0.67	0.7	0	0	0	0	0	0
9/15/2024 13:02	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-0.88	-0.84	1	1	0	600	600	0
9/15/2024 13:02	63501	HEID_TBK1-2	47	47	0	1.31	1.42	0.11	0.04	0.06	1	1	0	900	900	0
9/15/2024 13:03	51204	MTON_T2	0	0	0	0	0	0	-0.27	-0.24	1	1	0	600	600	0
9/15/2024 13:03	51306	WIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/15/2024 13:03	51302	WIND_T2	0	0	0	0	0	0	0	0.06	0	0	0	0	0	0
9/15/2024 13:04	52501	PROG_T1	0	2	2	0	0.8	0.8	-0.03	-0.92	1	1	0	300	300	0
9/15/2024 13:04	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-0.88	-0.84	1	1	0	600	600	0
9/15/2024 13:04	44905	SCOT_T1	9	11	2	0.77	0.67	-0.1	0	0	0	0	0	0	0	0
9/15/2024 13:05	43202	MVIL_T2	0	0	0	0	0	0	-0.59	-0.58	0	0	0	0	0	0
9/15/2024 13:05	43201	MVIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/15/2024 13:07	46302	ROHR_T1	4	5	1	0.55	0.62	0.07	-0.7	-0.68	0	0	0	0	0	0
9/15/2024 13:07	46301	ROHR_T1	2	3	1	2	1.5	-0.5	0	0	0	0	0	0	0	0
9/15/2024 13:08	15702	TANN_T2	0	0	0	0	0	0	-0.05	-0.1	0	0	0	0	0	0
9/15/2024 13:08	55101	WERT_T1	1	0	-1	0.4	0	-0.4	-1.36	-1.43	2	2	0	1500	1500	0
9/15/2024 13:08	15703	TANN_T2	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
9/15/2024 13:09	55101	WERT_T1	1	0	-1	0.4	0	-0.4	-1.36	-1.43	2	2	0	1500	1500	0
9/15/2024 13:10	42802	SELI_T1	0	0	0	0	0	0	-0.99	-0.91	1	1	0	900	900	0
9/15/2024 13:10	55101	WERT_T1	1	0	-1	0.4	0	-0.4	-2.71	2.86	4	4	0	3000	3000	0
9/15/2024 13:13	25402	LAHA_T2	0	1	1	0	0.3	0.3	-0.17	-0.17	0	0	0	0	0	0
9/15/2024 13:16	64902	MILL_T2	0	0	0	0	0	0	-0.82	-0.8	1	1	0	900	900	0
9/15/2024 13:17	24902	WHHA_T1	1	2	1	0.9	0.9	0	0.86	0.89	0	0	0	0	0	0
9/15/2024 13:17	20603	GRWO_T2	0	0	0	0	0	0	0.59	-0.44	0	1	1	0	900	900
9/15/2024 13:17	20601	GRWO_T2	11	8	-3	0.42	0.84	0.42	0	0	0	0	0	0	0	0
9/15/2024 13:18	64902	MILL_T2	0	0	0	0	0	0	-0.82	-0.8	1	1	0	900	900	0
9/15/2024 13:18	44202	POIN_T2	0	0	0	0	0	0	-0.73	-0.73	1	1	0	1200	1200	0
9/15/2024 13:21	57401	SPAN_T1	0	0	0	0	0	0	-1.07	-1.03	1	1	0	600	600	0
9/15/2024 13:21	55001	NEWP_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
9/15/2024 13:21	55002	NEWP_T1	1	1	0	2.3	2.1	-0.2	-0.08	-0.08	0	0	0	0	0	0
9/15/2024 13:22	57401	SPAN_T1	0	0	0	0	0	0	-1.07	-1.03	1	1	0	600	600	0
9/15/2024 13:24	48302	ORWI_T2	2	2	0	0.5	0.4	-0.1	-0.38	-0.38	0	0	0	0	0	0
9/15/2024 13:25	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 13:28	44801	EDAN_T2	4	4	0	0.68	1.13	0.45	-1.4	-1.38	0	0	0	0	0	0
9/15/2024 13:29	67503	WEWI_T2	1	1	0	5	4.8	-0.2	-0.5	-0.44	0	0	0	0	0	0
9/15/2024 13:29	44302	BEAV_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
9/15/2024 13:29	44301	BEAV_T2	3	4	1	0.65	0.4	-0.25	-0.65	-0.65	1	1	0	600	600	0
9/15/2024 13:30	43304	WATS_T2	1	1	0	1.1	1.3	0.2	-0.88	-0.85	0	0	0	0	0	0
9/15/2024 13:32	67503	WEWI_T2	1	1	0	4.8	4.5	-0.3	-0.5	-0.44	0	0	0	0	0	0
9/15/2024 13:34	54203	PENN_T1	5	5	0	0.32	0.18	-0.14	0	0	0	0	0	0	0	0
9/15/2024 13:34	54201	PENN_T1	3	3	0	1.03	1.1	0.07	-1.97	-1.98	0	0	0	0	0	0
9/15/2024 13:34	27605	PIRI_T2	4	0	-4	0.2	0	-0.2	0.74	0.68	0	0	0	0	0	0
9/15/2024 13:36	58402	MORO_T1	0	0	0	0	0	0	-0.23	-0.24	2	2	0	1500	1500	0
9/15/2024 13:36	55002	NEWP_T1	1	1	0	2.1	1.8	-0.3	-0.08	-0.08	0	0	0	0	0	0
9/15/2024 13:36	44905	SCOT_T1	9	34	25	0.67	0.67	0	0	0	0	0	0	0	0	0
9/15/2024 13:37	55101	WERT_T1	0	0	0	0	0	0	-1.33	-2.19	2	3	1	1500	2400	900
9/15/2024 13:38	24902	WHHA_T1	1	6	5	0.9	0.55	-0.35	0.89	0.89	0	0	0	0	0	0
9/15/2024 13:39	42701	AUGU_T1	0	5	5	0	0.35	0.35	0	0	2	2	0	1800	1800	0
9/15/2024 13:43	10805	CHHI_T2	7	12	5	1.49	8.6	7.11	-1.16	-1.16	1	1	0	600	600	0
9/15/2024 13:43	53601	DALM_T2	1	2	1	0.5	0.3	-0.2	0.02	0.03	0	0	0	0	0	0
9/15/2024 13:44	45501	DERR_T2	1	0	-1	0.2	0	-0.2	-0.5	-0.43	4	4	0	3600	3600	0
9/15/2024 13:44	47901	HRDG_T1	0	0	0	0	0	0	1.24	1.27	0	0	0	0	0	0
9/15/2024 13:46	47104	MARL_T1	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/15/2024 13:46	47901	HRDG_T1	0	0	0	0	0	0	1.24	1.27	0	0	0	0	0	0
9/15/2024 13:46	47101	MARL_T1	9	10	1	0.82	0.63	-0.19	0	0	0	0	0	0	0	0
9/15/2024 13:48	47101	MARL_T1	9	10	1	0.82	0.63	-0.19	0	0	0	0	0	0	0	0
9/15/2024 13:49	63202	MGTN_T2	0	0	0	0	0	0	-0.15	-0.13	1	1	0	900	900	0
9/15/2024 13:51	64101	REFR_T1	162	217	55	0.52	0.78	0.26	-0.01	-0.01	0	0	0	0	0	0
9/15/2024 13:51	60301	TWVA_T2	0	0	0	0	0	0	-1.6	-1.62	2	2	0	1500	1500	0
9/15/2024 13:54	53601	DALM_T2	1	2	1	0.3	0.2	-0.1	0.03	0.07	0	0	0	0	0	0
9/15/2024 13:54	29301	DAPP_T1	1	1	0	8.5	8.6	0.1	0	0	1	1	0	600	600	0
9/15/2024 13:55	43304	WATS_T2	1	1	0	1.2	1.3	0.1	-0.86	-0.75	0	0	0	0	0	0
9/15/2024 13:55	55101	WERT_T1	0	0	0	0	0	0	-2.19	-2.15	3	3	0	2400	2400	0
9/15/2024 13:59	24902	WHHA_T1	2	6	4	0.55	0.64	0.09	0.89	0.88	0	0	0	0	0	0
9/15/2024 14:01	40101	HUNT_T2	15	20	5	0.57	0.3	-0.27	-0.48	-0.49	0	0	0	0	0	0
9/15/2024 14:01	66701	STRA_T1	0	0	0	0	0	0	0.34	0.35	1	1	0	600	600	0
9/15/2024 14:04	47401	PENS_T1	4	3	-1	0.5	0.6	0.1	-0.7	-0.66	0	0	0	0	0	0
9/15/2024 14:04	47403	PENS_T1	4	2	-2	0.58	0.95	0.37	0	0	0	0	0	0	0	0
9/15/2024 14:04	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 14:05	14401	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 14:05	14403	SSLA_T1	1	1	0	0.3	0.1	-0.2	1.06	0.48	0	1	1	0	600	600
9/15/2024 14:06	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 14:06	47401	PENS_T1	4	3	-1	0.5	0.6	0.1	-0.35	-0.33	0	0	0	0	0	0
9/15/2024 14:06	47101	MARL_T1	9	7	-2	0.99	0.7	-0.29	0	-0.01	0	0	0	0	0	0
9/15/2024 14:06	47403	PENS_T1	4	2	-2	0.58	0.95	0.37	0	0	0	0	0	0	0	0
9/15/2024 14:07	57401	SPAN_T1	0	0	0	0	0	0	-0.9	-0.98	1	1	0	600	600	0
9/15/2024 14:08	57401	SPAN_T1	0	0	0	0	0	0	-0.9	-0.98	1	1	0	600	600	0
9/15/2024 14:09	64101	REFR_T1	205	215	10	0.77	1.12	0.35	-0.01	-0.01	0	0	0	0	0	0
9/15/2024 14:10	46301	ROHR_T1	2	2	0	1.85	3.6	1.75	0	0	0	0	0	0	0	0
9/15/2024 14:10	46302	ROHR_T1	4	4	0	0.7	0.35	-0.35	-0.33	-0.34	0	0	0	0	0	0
9/15/2024 14:11	10805	CHHI_T2	12	12	0	1.48	2.25	0.77	-1.05	-1.38	1	1	0	600	600	0
9/15/2024 14:12	10805	CHHI_T2	12	12	0	1.48	2.25	0.77	-1.05	-1.38	1	1	0	600	600	0
9/15/2024 14:14	52002	LING_T2	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0
9/15/2024 14:14	52004	LING_T2	2	2	0	4.05	4	-0.05	0	0	0	0	0	0	0	0
9/15/2024 14:15	21206	ECAR_T2	1	1	0	7.9	7.7	-0.2	0	0	0	0	0	0	0	0
9/15/2024 14:15	21204	ECAR_T2	1	1	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
9/15/2024 14:18	52006	LING_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 14:18	52004	LING_T2	2	2	0	3.9	4	0.1	0	0	0	0	0	0	0	0
9/15/2024 14:18	52002	LING_T2	0	0	0	0	0	0	-0.26	-0.34	0	0	0	0	0	0
9/15/2024 14:19	46102	MACI_T1	0	0	0	0	0	0	0.89	0.89	0	0	0	0	0	0
9/15/2024 14:20	21701	SUBU_T1	1	2	1	7.1	6.8	-0.3	0	0	0	0	0	0	0	0
9/15/2024 14:20	21703	SUBU_T1	0	0	0	0	0	0	0.51	-1.03	0	0	0	0	0	0
9/15/2024 14:20	21705	SUBU_T1	1	1	0	6.8	6.5	-0.3	0	0	0	0	0	0	0	0
9/15/2024 14:23	57401	SPAN_T1	0	0	0	0	0	0	-0.98	-0.95	1	1	0	600	600	0
9/15/2024 14:25	53601	DALM_T2	1	1	0	0.2	0.2	0	-0.01	0.04	0	0	0	0	0	0
9/15/2024 14:25	24901	WHHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/15/2024 14:25	24902	WHHA_T1	5	6	1	0.64	0.65	0.01	0.86	0.88	0	0	0	0	0	0
9/15/2024 14:26	44301	BEAV_T2	1	4	3	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
9/15/2024 14:26	44302	BEAV_T2	2	1	-1	0.1	0.2	0.1	0.34	0.38	0	0	0	0	0	0
9/15/2024 14:28	22003	BOHE_T1	1	2	1	0.2	0.35	0.15	-0.19	-0.19	0	0	0	0	0	0
9/15/2024 14:29	64501	LAVI_T1	2	2	0	0.3	0.8	0.5	-0.21	-0.21	0	0	0	0	0	0
9/15/2024 14:29	40101	HUNT_T2	18	31	13	0.41	0.3	-0.11	-0.49	-0.49	0	0	0	0	0	0
9/15/2024 14:29	64503	LAVI_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/15/2024 14:29	41001	LAUR_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
9/15/2024 14:29	41002	LAUR_T2	4	1	-3	0.28	1.2	0.92	0.19	0.21	0	0	0	0	0	0
9/15/2024 14:29	64502	LAVI_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/15/2024 14:31	46503	LOHA_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
9/15/2024 14:31	46504	LOHA_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
9/15/2024 14:31	46506	LOHA_T1	3	3	0	2.8	2.6	-0.2	0	0	0	0	0	0	0	0
9/15/2024 14:31	46501	LOHA_T1	1	1	0	5	5	0	0	0	0	0	0	0	0	0
9/15/2024 14:33	40101	HUNT_T2	11	103	92	0.3	0.48	0.18	-0.49	-0.49	0	0	0	0	0	0
9/15/2024 14:34	46504	LOHA_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
9/15/2024 14:34	46501	LOHA_T1	1	1	0	5	0	-5	0	0	0	0	0	0	0	0
9/15/2024 14:34	46503	LOHA_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
9/15/2024 14:34	16203	POFA_T2	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
9/15/2024 14:34	46506	LOHA_T1	3	3	0	2.8	2.6	-0.2	0	0	0	0	0	0	0	0
9/15/2024 14:36	16203	POFA_T2	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
9/15/2024 14:38	10801	CHHI_T1	3	5	2	0.33	0.23	-0.1	-1.4	-1.45	3	3	0	2100	2100	0
9/15/2024 14:41	53601	DALM_T2	1	2	1	0.2	0.2	0	0.04	0.01	0	0	0	0	0	0
9/15/2024 14:43	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/15/2024 14:43	44301	BEAV_T2	1	4	3	0.1	0.33	0.23	-1.23	-1.24	1	1	0	600	600	0
9/15/2024 14:45	61702	ELIZ_T2	0	0	0	0	0	0	-1.54	-1.53	2	2	0	1500	1500	0
9/15/2024 14:46	52004	LING_T2	2	2	0	3.8	4.1	0.3	0	0	0	0	0	0	0	0
9/15/2024 14:46	52006	LING_T2	3	1	-2	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/15/2024 14:47	44801	EDAN_T2	4	1	-3	0.58	0.2	-0.38	-1.36	-1.41	0	0	0	0	0	0
9/15/2024 14:49	52004	LING_T2	2	2	0	3.8	4.1	0.3	0	0	0	0	0	0	0	0
9/15/2024 14:49	52006	LING_T2	3	1	-2	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/15/2024 14:50	44901	SCOT_T2	0	0	0	0	0	0	-0.28	0.05	0	0	0	0	0	0
9/15/2024 14:51	47403	PENS_T1	1	1	0	0.8	2	1.2	0	0	0	0	0	0	0	0
9/15/2024 14:51	47401	PENS_T1	0	0	0	0	0	0	-0.24	-0.21	0	0	0	0	0	0
9/15/2024 14:54	66703	STRA_T1	2	2	0	0.4	1.1	0.7	0.39	0.41	0	0	0	0	0	0
9/15/2024 14:55	66703	STRA_T1	2	2	0	0.4	1.1	0.7	0.78	0.83	0	0	0	0	0	0
9/15/2024 14:56	45902	AUBU_T1	4	8	4	0.75	0.31	-0.44	-0.87	-0.95	1	1	0	600	600	0
9/15/2024 14:57	45802	HEGI_T2	39	48	9	0.6	1.53	0.93	0.26	0.12	0	0	0	0	0	0
9/15/2024 14:59	45802	HEGI_T2	39	48	9	0.6	1.53	0.93	0.26	0.12	0	0	0	0	0	0
9/15/2024 15:00	53501	EVIL_T2	1	2	1	0.1	0.2	0.1	-0.01	-0.01	2	2	0	1200	1200	0
9/15/2024 15:01	47101	MARL_T1	16	1	-15	0.74	0	-0.74	0.01	-0.14	0	0	0	0	0	0
9/15/2024 15:01	53501	EVIL_T2	1	2	1	0.1	0.2	0.1	-0.01	-0.01	2	2	0	1200	1200	0
9/15/2024 15:02	44801	EDAN_T2	1	1	0	0.5	0.2	-0.3	-1.41	-1.39	0	0	0	0	0	0
9/15/2024 15:02	42903	MIDD_T2	0	2	2	0	0.15	0.15	-0.19	0	0	0	0	0	0	0
9/15/2024 15:02	42902	MIDD_T2	1	1	0	1.3	0.6	-0.7	0	0	0	0	0	0	0	0
9/15/2024 15:02	42901	MIDD_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/15/2024 15:04	47101	MARL_T1	16	1	-15	0.74	0	-0.74	0.01	-0.14	0	0	0	0	0	0
9/15/2024 15:05	42901	MIDD_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/15/2024 15:05	42903	MIDD_T2	0	2	2	0	0.15	0.15	-0.19	0	0	0	0	0	0	0
9/15/2024 15:05	42902	MIDD_T2	1	1	0	1.3	0.6	-0.7	0	0	0	0	0	0	0	0
9/15/2024 15:06	54602	SUMM_T2	0	0	0	0	0	0	-2	-1.97	1	1	0	600	600	0
9/15/2024 15:07	56501	ROCK_T2	26	34	8	0.23	0.24	0.01	-1.94	-1.94	0	0	0	0	0	0
9/15/2024 15:09	42701	AUGU_T1	9	7	-2	0.17	0.3	0.13	0	0	2	2	0	1800	1800	0
9/15/2024 15:11	53903	HALI_T2	2	2	0	0.25	0.65	0.4	0	0	0	0	0	0	0	0
9/15/2024 15:11	53902	HALI_T2	1	1	0	4.2	4.6	0.4	-0.65	-0.63	0	0	0	0	0	0
9/15/2024 15:11	53501	EVIL_T2	1	2	1	0.1	0.2	0.1	-0.01	-0.01	1	1	0	600	600	0
9/15/2024 15:12	67602	WARW_T2	0	0	0	0	0	0	1.15	1.19	2	2	0	600	600	0
9/15/2024 15:12	42701	AUGU_T1	9	7	-2	0.17	0.3	0.13	0	0	2	2	0	1800	1800	0
9/15/2024 15:12	50105	HARR_T3	6	6	0	6.32	6.27	-0.05	0	0	0	0	0	0	0	0
9/15/2024 15:12	50107	HARR_T3	1	1	0	8.3	7.5	-0.8	0	0	0	0	0	0	0	0
9/15/2024 15:12	50103	HARR_T3	5	3	-2	0.32	0	-0.32	0	0	0	0	0	0	0	0
9/15/2024 15:12	53501	EVIL_T2	1	2	1	0.1	0.2	0.1	-0.01	-0.01	1	1	0	600	600	0
9/15/2024 15:13	10801	CHHI_T1	2	15	13	0.15	1.5	1.35	-1.35	-1.29	3	3	0	2100	2100	0
9/15/2024 15:13	42701	AUGU_T1	9	7	-2	0.17	0.3	0.13	0	0	2	2	0	1800	1800	0
9/15/2024 15:14	65604	QVIL_T2	2	1	-1	0.5	0	-0.5	0.6	0.58	0	0	0	0	0	0
9/15/2024 15:14	65602	QVIL_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/15/2024 15:14	25402	LAHA_T2	0	0	0	0	0	0	-0.31	-0.24	0	0	0	0	0	0
9/15/2024 15:14	67602	WARW_T2	0	0	0	0	0	0	1.15	1.19	2	2	0	600	600	0
9/15/2024 15:15	67602	WARW_T2	0	0	0	0	0	0	1.15	1.19	2	2	0	600	600	0
9/15/2024 15:15	42701	AUGU_T1	5	0	-5	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
9/15/2024 15:16	53501	EVIL_T2	1	2	1	0.3	0.2	-0.1	-0.01	-0.01	2	2	0	1200	1200	0
9/15/2024 15:19	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 15:24	48302	ORWI_T2	1	1	0	0.1	0.1	0	-0.36	-0.34	0	0	0	0	0	0
9/15/2024 15:24	45602	WOOL_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
9/15/2024 15:25	60502	NMAN_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
9/15/2024 15:31	20601	GRWO_T2	5	25	20	0.28	0.17	-0.11	0.86	0.85	0	0	0	0	0	0
9/15/2024 15:33	42902	MIDD_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
9/15/2024 15:33	42903	MIDD_T2	2	2	0	0.15	0.25	0.1	0.08	-0.18	0	0	0	0	0	0
9/15/2024 15:40	14204	EALL_T2	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
9/15/2024 15:45	45501	DERR_T2	0	1	1	0	0	0	-0.47	-0.46	4	4	0	3600	3600	0
9/15/2024 15:52	44905	SCOT_T1	12	29	17	0.91	0.77	-0.14	0	0	0	0	0	0	0	0
9/15/2024 15:57	48901	FOSP_T2	0	0	0	0	0	0	-0.32	-0.32	1	1	0	600	600	0
9/15/2024 16:00	22405	MORG_T2	0	0	0	0	0	0	-1.07	-1.07	0	0	0	0	0	0
9/15/2024 16:04	50701	SMEC_T1	0	0	0	0	0	0	-2.18	-2.15	2	2	0	2100	2100	0
9/15/2024 16:05	64301	LINC_T1	0	1	1	0	0	0	-0.83	-0.86	1	1	0	600	600	0
9/15/2024 16:06	50701	SMEC_T1	0	0	0	0	0	0	-2.15	-2.14	2	2	0	2100	2100	0
9/15/2024 16:09	14201	EALL_T1	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
9/15/2024 16:10	42701	AUGU_T1	2	25	23	2.35	0.62	-1.73	0	0	2	2	0	1800	1800	0
9/15/2024 16:13	20403	ASHF_T2	1	1	0	0.2	0.2	0	0.7	0.72	0	0	0	0	0	0
9/15/2024 16:13	20401	ASHF_T2	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
9/15/2024 16:13	20402	ASHF_T2	1	1	0	8.6	0	-8.6	0	0	0	0	0	0	0	0
9/15/2024 16:21	57104	SPHI_T2	1	1	0	0.6	1.3	0.7	-2.15	-2.16	1	1	0	900	900	0
9/15/2024 16:21	57106	SPHI_T2	3	3	0	0.17	0.4	0.23	0	0	0	0	0	0	0	0
9/15/2024 16:26	67605	WARW_T1	1	1	0	0.3	1.1	0.8	-0.78	-0.72	0	0	0	0	0	0
9/15/2024 16:27	66301	MCGO_T2	0	0	0	0	0	0	-1.35	-1.35	0	0	0	0	0	0
9/15/2024 16:30	61802	EELI_T2	8	8	0	1.56	1.48	-0.08	0	0	0	0	0	0	0	0
9/15/2024 16:30	61801	EELI_T2	3	2	-1	0.3	0	-0.3	-0.95	-0.96	2	2	0	1200	1200	0
9/15/2024 16:31	61802	EELI_T2	8	8	0	1.56	1.48	-0.08	-0.66	-0.62	0	0	0	0	0	0
9/15/2024 16:31	61801	EELI_T2	3	2	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/15/2024 16:31	40101	HUNT_T2	109	54	-55	0.55	0.46	-0.09	-0.49	-0.77	0	0	0	0	0	0
9/15/2024 16:33	64204	KINZ_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/15/2024 16:33	64201	KINZ_T1	0	0	0	0	0	0	-0.97	-0.99	4	4	0	2100	2100	0
9/15/2024 16:34	52006	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/15/2024 16:34	52004	LING_T2	2	2	0	3.85	3.95	0.1	0	0	0	0	0	0	0	0
9/15/2024 16:42	20402	ASHF_T2	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
9/15/2024 16:42	20401	ASHF_T2	2	1	-1	0.65	0.1	-0.55	0	0	0	0	0	0	0	0
9/15/2024 16:42	53902	HALI_T2	1	1	0	3.9	4.1	0.2	-1.28	-1.24	0	0	0	0	0	0
9/15/2024 16:42	20403	ASHF_T2	1	1	0	0.4	0	-0.4	0.78	0.8	0	0	0	0	0	0
9/15/2024 16:48	15603	NSTR_T2	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
9/15/2024 16:49	58401	MORO_T1	0	0	0	0	0	0	-3.16	-3.11	4	4	0	3000	3000	0
9/15/2024 16:49	47802	MOCA_T2	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
9/15/2024 16:55	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 16:56	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 16:58	43302	WATS_T2	0	0	0	0	0	0	-0.79	-0.82	2	2	0	1800	1800	0
9/15/2024 17:00	53502	EVIL_T2	0	0	0	0	0	0	-0.6	-0.62	2	2	0	1200	1200	0
9/15/2024 17:00	53501	EVIL_T2	1	2	1	1.7	0.85	-0.85	0	0	0	0	0	0	0	0
9/15/2024 17:03	65503	MOJO_T2	0	0	0	0	0	0	-0.42	-0.44	1	1	0	900	900	0
9/15/2024 17:11	22002	BOHE_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
9/15/2024 17:11	22003	BOHE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/15/2024 17:25	46206	DANV_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/15/2024 17:25	46203	DANV_T2	2	1	-1	2.9	6.1	3.2	-1.56	-1.61	0	0	0	0	0	0
9/15/2024 17:26	46203	DANV_T2	2	1	-1	2.9	6.1	3.2	-1.56	-1.61	0	0	0	0	0	0
9/15/2024 17:26	46206	DANV_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
9/15/2024 17:28	52202	DEVO_T2	1	0	-1	0.6	0	-0.6	-0.83	-0.83	0	0	0	0	0	0
9/15/2024 17:28	52204	DEVO_T2	6	6	0	1.37	1.43	0.06	0	0	0	0	0	0	0	0
9/15/2024 17:30	64701	LITI_T1	6	8	2	0.55	0.2	-0.35	0.49	0.45	0	0	0	0	0	0
9/15/2024 17:37	44902	SCOT_T2	0	1	1	0	0	0	-1.9	-1.85	0	0	0	0	0	0
9/15/2024 17:44	24102	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 17:44	24105	EHAZ_T1	4	4	0	6.35	6.95	0.6	-1.79	-1.79	1	1	0	1200	1200	0
9/15/2024 17:46	46901	MNTG_T2	0	0	0	0	0	0	-0.64	-0.74	1	1	0	1200	1200	0
9/15/2024 17:48	46101	MACI_T2	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
9/15/2024 17:54	41903	REED_T1	0	0	0	0	0	0	-0.29	-0.27	1	1	0	1200	1200	0
9/15/2024 17:54	41901	REED_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/15/2024 17:54	41902	REED_T1	4	11	7	0.88	0.42	-0.46	0	0	0	0	0	0	0	0
9/15/2024 18:04	27604	PIRI_T1	0	0	0	0	0	0	0.88	0.89	0	0	0	0	0	0
9/15/2024 18:04	47802	MOCA_T2	0	0	0	0	0	0	-0.77	-0.74	0	0	0	0	0	0
9/15/2024 18:06	47802	MOCA_T2	0	0	0	0	0	0	-0.74	-0.79	0	0	0	0	0	0
9/15/2024 18:06	27604	PIRI_T1	0	0	0	0	0	0	0.89	0.82	0	0	0	0	0	0
9/15/2024 18:08	67201	TEHI_T1	1	1	0	1.2	0.8	-0.4	0.59	0.57	0	0	0	0	0	0
9/15/2024 18:18	65502	MOJO_T2	0	0	0	0	0	0	-1.13	-1.06	1	1	0	900	900	0
9/15/2024 18:42	10705	CATA_T2	0	0	0	0	0	0	-1.6	-1.69	1	1	0	900	900	0
9/15/2024 18:47	10705	CATA_T2	0	0	0	0	0	0	-1.6	-1.69	1	1	0	900	900	0
9/15/2024 18:54	15001	BLMO_T1	0	1	1	0	0.4	0.4	0	0	0	1	0	0	0	0
9/15/2024 20:33	55002	NEWP_T1	5	6	1	0.56	0.85	0.29	0	0	0	0	0	0	0	0
9/15/2024 20:33	55001	NEWP_T1	0	0	0	0	0	0	-0.68	-0.71	1	1	0	600	600	0
9/15/2024 20:35	56501	ROCK_T2	62	198	136	0.17	0.23	0.06	-0.88	-0.89	0	0	0	0	0	0
9/15/2024 20:37	65002	NEFF_T2	1	0	-1	4	0	-4	0	0	0	0	0	0	0	0
9/15/2024 20:37	65001	NEFF_T2	0	0	0	0	0	0	-0.87	-0.86	1	1	0	1200	1200	0
9/15/2024 20:42	47101	MARL_T1	1	3	2	0.1	0	-0.1	-0.01	-0.09	0	0	0	0	0	0
9/15/2024 20:46	48302	ORWI_T2	2	2	0	1.05	1.15	0.1	-0.53	-0.55	0	0	0	0	0	0
9/15/2024 20:48	57401	SPAN_T1	0	0	0	0	0	0	-1.08	-1.13	1	1	0	600	600	0
9/15/2024 20:50	64101	REFR_T1	210	208	-2	1.79	0.59	-1.2	-0.01	-0.01	0	0	0	0	0	0
9/15/2024 20:52	44301	BEAV_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/15/2024 20:52	44302	BEAV_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
9/15/2024 21:01	51306	WIND_T2	0	0	0	0	0	0	-0.9	-0.93	0	0	0	0	0	0
9/15/2024 21:03	12402	MILF_T1	0	0	0	0	0	0	-0.23	-0.21	1	1	0	1200	1200	0
9/15/2024 21:03	16402	MOPO_T1	4	4	0	2.8	0.67	-2.13	0.55	0.59	0	0	0	0	0	0
9/15/2024 21:06	16402	MOPO_T1	4	4	0	2.8	0.67	-2.13	0.59	0.52	0	0	0	0	0	0
9/15/2024 21:06	40602	PIGR_T1	0	0	0	0	0	0	-1.69	-1.66	1	1	0	600	600	0
9/15/2024 21:06	48302	ORWI_T2	2	2	0	1.15	1.15	0	-0.57	-0.59	0	0	0	0	0	0
9/15/2024 21:07	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/15/2024 21:07	15702	TANN_T2	0	0	0	0	0	0	-0.28	-0.33	0	0	0	0	0	0
9/15/2024 21:08	59101	WALK_T2	0	0	0	0	0	0	0.91	0.85	1	1	0	600	600	0
9/15/2024 21:08	10805	CHHI_T2	1	1	0	8.5	8.1	-0.4	-0.74	-0.88	1	1	0	600	600	0
9/15/2024 21:09	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 21:09	65205	PRIN_T1	1	1	0	1.9	2.1	0.2	0	0	0	0	0	0	0	0
9/15/2024 21:09	24902	WHHA_T1	1	2	1	0.4	0	-0.4	0.82	0.81	0	0	0	0	0	0
9/15/2024 21:09	22405	MORG_T2	0	0	0	0	0	0	-1.26	-1.31	0	0	0	0	0	0
9/15/2024 21:09	15603	NSTR_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
9/15/2024 21:09	26401	INOR_T1	1	1	0	8.2	8.6	0.4	0.5	0.46	0	0	0	0	0	0
9/15/2024 21:09	15601	NSTR_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
9/15/2024 21:10	16101	BING_T2	0	0	0	0	0	0	0.68	0.6	0	0	0	0	0	0
9/15/2024 21:10	16102	BING_T2	1	8	7	0.1	0.24	0.14	0	0	0	0	0	0	0	0
9/15/2024 21:10	13905	SEID_T1	0	0	0	0	0	0	-0.78	-0.8	1	1	0	1200	1200	0
9/15/2024 21:10	25402	LAHA_T2	1	1	0	0.1	0.1	0	-0.82	-0.81	0	0	0	0	0	0
9/15/2024 21:10	25404	LAHA_T2	97	147	50	0.11	0.14	0.03	0	0	0	0	0	0	0	0
9/15/2024 21:11	24105	EHAZ_T1	4	4	0	5.85	5.83	-0.02	0	0	0	0	0	0	0	0
9/15/2024 21:11	66301	MCGO_T2	0	0	0	0	0	0	-1.49	-1.57	0	0	0	0	0	0
9/15/2024 21:11	24101	EHAZ_T1	12	1	-11	1.12	0	-1.12	0	0	0	0	0	0	0	0
9/15/2024 21:11	47401	PENS_T1	0	0	0	0	0	0	-0.66	-0.63	0	0	0	0	0	0
9/15/2024 21:11	66303	MCGO_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/15/2024 21:11	24102	EHAZ_T1	0	1	1	0	0	0	0.05	0	0	0	0	0	0	0
9/15/2024 21:12	67603	WARW_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
9/15/2024 21:12	67605	WARW_T1	3	4	1	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
9/15/2024 21:12	28702	HAML_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
9/15/2024 21:12	13503	MCMI_T2	71	89	18	0.31	0.34	0.03	-1.66	-1.68	0	0	0	0	0	0
9/15/2024 21:12	28703	HAML_T2	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
9/15/2024 21:12	28704	HAML_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/15/2024 21:12	22002	BOHE_T1	0	0	0	0	0	0	0.33	0.28	0	0	0	0	0	0
9/15/2024 21:12	20403	ASHF_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
9/15/2024 21:12	22003	BOHE_T1	1	1	0	0.1	0.1	0	-0.2	-0.2	0	0	0	0	0	0
9/15/2024 21:12	64902	MILL_T2	0	0	0	0	0	0	-1.01	-1.04	1	1	0	900	900	0
9/15/2024 21:12	42601	TUSC_T1	0	0	0	0	0	0	-0.49	-0.54	2	2	0	1800	1800	0
9/15/2024 21:12	52004	LING_T2	2	2	0	4.85	4.55	-0.3	0	0	0	0	0	0	0	0
9/15/2024 21:12	47802	MOCA_T2	0	0	0	0	0	0	-0.8	-0.85	0	0	0	0	0	0
9/15/2024 21:12	45901	AUBU_T1	0	0	0	0	0	0	1.04	1.01	0	0	0	0	0	0
9/15/2024 21:12	64701	LITI_T1	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
9/15/2024 21:12	66701	STRA_T1	0	0	0	0	0	0	0.1	0.1	1	1	0	600	600	0
9/15/2024 21:12	45902	AUBU_T1	31	0	-31	0.27	0	-0.27	-0.49	-0.5	0	0	0	0	0	0
9/15/2024 21:13	64201	KINZ_T1	0	0	0	0	0	0	-0.79	-0.83	3	3	0	1500	1500	0
9/15/2024 21:13	42802	SELI_T1	1	0	-1	0.5	0	-0.5	-1.43	-1.43	1	1	0	900	900	0
9/15/2024 21:13	64202	KINZ_T1	2	3	1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/15/2024 21:13	14201	EALL_T1	0	0	0	0	0	0	0.87	0.81	0	0	0	0	0	0
9/15/2024 21:13	64204	KINZ_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
9/15/2024 21:13	48301	ORWI_T1	2	2	0	5.1	4.4	-0.7	0.13	0.11	0	0	0	0	0	0
9/15/2024 21:13	55101	WERT_T1	0	0	0	0	0	0	-2.14	-2.07	3	3	0	2400	2400	0
9/15/2024 21:13	20601	GRWO_T2	0	0	0	0	0	0	0.74	0.7	0	0	0	0	0	0
9/15/2024 21:13	60101	COCA_T1	0	0	0	0	0	0	0.55	0.65	0	0	0	0	0	0
9/15/2024 21:14	45902	AUBU_T1	31	0	-31	0.27	0	-0.27	-0.99	-0.99	0	0	0	0	0	0
9/15/2024 21:14	52004	LING_T2	2	2	0	4.85	4.55	-0.3	0	0	0	0	0	0	0	0
9/15/2024 21:14	42201	SHEN_T2	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
9/15/2024 21:14	11202	ELHE_T2	0	0	0	0	0	0	0.66	0.62	0	0	0	0	0	0
9/15/2024 21:14	66504	SMAN_T2	0	0	0	0	0	0	-2.57	-2.4	2	2	0	2400	2400	0
9/15/2024 21:14	66505	SMAN_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
9/15/2024 21:15	50701	SMEC_T1	0	0	0	0	0	0	-1.44	-1.43	1	1	0	900	900	0
9/15/2024 21:15	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 21:15	54203	PENN_T1	18	18	0	0.89	0.73	-0.16	0	0	0	0	0	0	0	0
9/15/2024 21:15	53901	HALI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/15/2024 21:15	20601	GRWO_T2	0	0	0	0	0	0	0.74	0.7	0	0	0	0	0	0
9/15/2024 21:15	45902	AUBU_T1	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
9/15/2024 21:15	67605	WARW_T1	4	4	0	0.93	0.85	-0.08	-1.24	-1.21	0	0	0	0	0	0
9/15/2024 21:15	20802	LOPO_T1	0	0	0	0	0	0	-0.52	-0.53	1	1	0	600	600	0
9/15/2024 21:15	57401	SPAN_T1	0	0	0	0	0	0	-1.12	-1.17	1	1	0	600	600	0
9/15/2024 21:15	11507	FREE_T2	0	0	0	0	0	0	0.6	0.41	0	0	0	0	0	0
9/15/2024 21:15	53902	HALI_T2	1	1	0	4.7	5.3	0.6	-0.86	-0.84	0	0	0	0	0	0
9/15/2024 21:15	43301	WATS_T2	1	1	0	0.6	0.8	0.2	-0.47	-0.55	1	1	0	900	900	0
9/15/2024 21:15	27604	PIRI_T1	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
9/15/2024 21:15	47802	MOCA_T2	0	0	0	0	0	0	-0.8	-0.85	0	0	0	0	0	0
9/15/2024 21:15	42601	TUSC_T1	0	0	0	0	0	0	-0.49	-0.54	2	2	0	1800	1800	0
9/15/2024 21:15	63501	HEID_TBK1-2	48	49	1	0.9	0.72	-0.18	-0.31	-0.2	1	1	0	900	900	0
9/15/2024 21:15	66703	STRA_T1	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0
9/15/2024 21:15	67503	WEWI_T2	1	1	0	5.9	6.1	0.2	-0.56	-0.57	0	0	0	0	0	0
9/15/2024 21:15	40101	HUNT_T2	2	0	-2	0.4	0	-0.4	-1.71	-1.75	0	0	0	0	0	0
9/15/2024 21:15	45901	AUBU_T1	0	0	0	0	0	0	1.04	1.01	0	0	0	0	0	0
9/15/2024 21:15	42701	AUGU_T1	1	2	1	0.9	1.3	0.4	0	0	2	2	0	1800	1800	0
9/15/2024 21:15	54201	PENN_T1	73	58	-15	0.47	0.4	-0.07	-2.1	-2.07	0	0	0	0	0	0
9/15/2024 21:16	56501	ROCK_T2	5	7	2	0.36	0.37	0.01	0	0	0	0	0	0	0	0
9/15/2024 21:16	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 21:16	24102	EHAZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/15/2024 21:16	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 21:16	47401	PENS_T1	0	0	0	0	0	0	-0.66	-0.63	0	0	0	0	0	0
9/15/2024 21:16	66505	SMAN_T2	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
9/15/2024 21:16	42802	SELI_T1	0	0	0	0	0	0	-1.43	-1.43	1	1	0	900	900	0
9/15/2024 21:16	46301	ROHR_T1	1	1	0	4.8	4.3	-0.5	0	0	0	0	0	0	0	0
9/15/2024 21:16	24105	EHAZ_T1	4	4	0	5.98	5.73	-0.25	-1.9	-1.92	1	1	0	1200	1200	0
9/15/2024 21:16	47101	MARL_T1	1	0	-1	0.2	0	-0.2	-0.13	-0.13	0	0	0	0	0	0
9/15/2024 21:16	46302	ROHR_T1	4	4	0	0.8	0.6	-0.2	-0.4	0.19	0	0	0	0	0	0
9/15/2024 21:16	56504	ROCK_T2	0	0	0	0	0	0	-1.85	-1.96	0	0	0	0	0	0
9/15/2024 21:16	44802	EDAN_T2	0	0	0	0	0	0	-1.92	-1.93	0	0	0	0	0	0
9/15/2024 21:16	42601	TUSC_T1	0	0	0	0	0	0	-0.49	-0.54	2	2	0	1800	1800	0
9/15/2024 21:16	44502	HAMI_T2	1	1	0	2.7	2.7	0	-0.68	-0.65	0	0	0	0	0	0
9/15/2024 21:16	24101	EHAZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/15/2024 21:16	10805	CHHI_T2	1	1	0	8.3	7.9	-0.4	-0.74	-0.88	1	1	0	600	600	0
9/15/2024 21:16	44801	EDAN_T2	37	80	43	0.28	0.36	0.08	0	0	0	0	0	0	0	0
9/15/2024 21:16	66504	SMAN_T2	0	0	0	0	0	0	-1.29	-1.2	1	1	0	1200	1200	0
9/15/2024 21:17	47002	HUGH_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/15/2024 21:17	45602	WOOL_T1	0	0	0	0	0	0	0.75	0.7	0	0	0	0	0	0
9/15/2024 21:17	57401	SPAN_T1	0	0	0	0	0	0	-1.12	-1.17	1	1	0	600	600	0
9/15/2024 21:17	45902	AUBU_T1	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
9/15/2024 21:17	16103	BING_T2	0	0	0	0	0	0	-1.15	-1.19	1	1	0	900	900	0
9/15/2024 21:17	60101	COCA_T1	0	0	0	0	0	0	0.55	0.65	0	0	0	0	0	0
9/15/2024 21:17	61801	EELI_T2	0	0	0	0	0	0	-1.34	-1.32	2	2	0	1200	1200	0
9/15/2024 21:17	48303	ORWI_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
9/15/2024 21:17	15702	TANN_T2	0	0	0	0	0	0	-0.57	-0.66	0	0	0	0	0	0
9/15/2024 21:17	10805	CHHI_T2	1	1	0	8.3	7.9	-0.4	-1.48	-1.75	2	2	0	1200	1200	0
9/15/2024 21:17	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/15/2024 21:17	48302	ORWI_T2	2	2	0	1.1	1.15	0.05	-1.14	-1.18	0	0	0	0	0	0
9/15/2024 21:17	16102	BING_T2	3	11	8	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/15/2024 21:17	53502	EVIL_T2	0	0	0	0	0	0	-0.14	-0.14	1	1	0	600	600	0
9/15/2024 21:17	47001	HUGH_T2	3	3	0	8.27	8.83	0.56	-2.13	-2.27	1	1	0	900	900	0
9/15/2024 21:17	53501	EVIL_T2	2	2	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
9/15/2024 21:18	42903	MIDD_T2	2	2	0	0.9	1.1	0.2	-0.48	-0.5	0	0	0	0	0	0
9/15/2024 21:18	55001	NEWP_T1	0	1	1	0	0.1	0.1	-0.78	-0.78	1	1	0	600	600	0
9/15/2024 21:18	14204	EALL_T2	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
9/15/2024 21:18	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 21:18	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 21:18	53501	EVIL_T2	2	2	0	0.75	0.7	-0.05	-0.01	-0.01	1	1	0	600	600	0
9/15/2024 21:18	10805	CHHI_T2	1	1	0	8.3	7.9	-0.4	-0.74	-0.88	1	1	0	600	600	0
9/15/2024 21:18	40602	PIGR_T1	0	0	0	0	0	0	-1.69	-1.66	1	1	0	600	600	0
9/15/2024 21:18	52004	LING_T2	2	2	0	4.55	4.55	0	0	0	0	0	0	0	0	0
9/15/2024 21:18	61702	ELIZ_T2	0	0	0	0	0	0	-1.7	-1.74	2	2	0	1500	1500	0
9/15/2024 21:18	67602	WARW_T2	0	0	0	0	0	0	0.42	0.41	2	2	0	600	600	0
9/15/2024 21:18	53902	HALI_T2	1	1	0	4.7	5.3	0.6	-0.86	-0.84	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/15/2024 21:18	48302	ORWI_T2	2	2	0	1.1	1.15	0.05	-0.57	-0.59	0	0	0	0	0	0
9/15/2024 21:18	53901	HALI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/15/2024 21:18	66505	SMAN_T2	0	3	3	0	0.6	0.6	-0.34	-0.36	3	3	0	2100	2100	0
9/15/2024 21:18	57401	SPAN_T1	0	0	0	0	0	0	-1.12	-1.17	1	1	0	600	600	0
9/15/2024 21:18	55002	NEWP_T1	6	6	0	1	1.22	0.22	0	0	0	0	0	0	0	0
9/15/2024 21:18	63202	MGTN_T2	0	0	0	0	0	0	-0.37	-0.34	1	1	0	900	900	0
9/15/2024 21:18	64602	LEOL_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
9/15/2024 21:18	54506	ENOL_T2	0	0	0	0	0	0	1	0.88	1	1	0	600	600	0
9/15/2024 21:18	44802	EDAN_T2	0	0	0	0	0	0	-1.92	-1.93	0	0	0	0	0	0
9/15/2024 21:18	56501	ROCK_T2	5	7	2	0.36	0.37	0.01	-1.83	-1.89	0	0	0	0	0	0
9/15/2024 21:18	44801	EDAN_T2	37	80	43	0.28	0.36	0.08	0	0	0	0	0	0	0	0
9/15/2024 21:19	66703	STRA_T1	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0
9/15/2024 21:19	25603	ARRO_T1	0	0	0	0	0	0	-0.04	0	0	0	0	0	0	0
9/15/2024 21:19	55002	NEWP_T1	6	6	0	1	1.22	0.22	0	0	0	0	0	0	0	0
9/15/2024 21:19	29301	DAPP_T1	1	1	0	9.7	9.4	-0.3	0	0	1	1	0	600	600	0
9/15/2024 21:19	20403	ASHF_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
9/15/2024 21:19	51603	DUKE_T1	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
9/15/2024 21:19	67605	WARW_T1	4	4	0	0.93	0.85	-0.08	-1.24	-1.21	0	0	0	0	0	0
9/15/2024 21:19	60101	COCA_T1	0	0	0	0	0	0	0.55	0.65	0	0	0	0	0	0
9/15/2024 21:19	22602	KIMB_T1	1	1	0	0.2	0.2	0	0.4	0.41	0	0	0	0	0	0
9/15/2024 21:19	43301	WATS_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/15/2024 21:19	44802	EDAN_T2	0	0	0	0	0	0	-1.92	-1.93	0	0	0	0	0	0
9/15/2024 21:19	50701	SMEC_T1	0	0	0	0	0	0	-1.44	-1.43	1	1	0	900	900	0
9/15/2024 21:19	56501	ROCK_T2	5	7	2	0.36	0.37	0.01	-0.91	-0.94	0	0	0	0	0	0
9/15/2024 21:19	44801	EDAN_T2	37	80	43	0.28	0.36	0.08	0	0	0	0	0	0	0	0
9/15/2024 21:19	57401	SPAN_T1	0	0	0	0	0	0	-1.12	-1.17	1	1	0	600	600	0
9/15/2024 21:19	43304	WATS_T2	0	0	0	0	0	0	-0.93	-0.95	0	0	0	0	0	0
9/15/2024 21:19	55001	NEWP_T1	0	1	1	0	0.1	0.1	-0.78	-0.78	1	1	0	600	600	0
9/15/2024 21:19	53501	EVIL_T2	2	2	0	0.75	0.7	-0.05	-0.01	-0.01	1	1	0	600	600	0
9/15/2024 21:19	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 21:20	20403	ASHF_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
9/15/2024 21:20	46302	ROHR_T1	4	4	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
9/15/2024 21:20	53601	DALM_T2	1	1	0	0.5	0.7	0.2	0.2	0.21	0	0	0	0	0	0
9/15/2024 21:20	43301	WATS_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/15/2024 21:20	44902	SCOT_T2	0	0	0	0	0	0	-1.93	-0.71	0	0	0	0	0	0
9/15/2024 21:20	45802	HEGI_T2	20	40	20	0.27	0.48	0.21	0.71	0.71	0	0	0	0	0	0
9/15/2024 21:20	10801	CHHI_T1	0	0	0	0	0	0	-1.72	-1.78	3	3	0	2100	2100	0
9/15/2024 21:20	44502	HAMI_T2	1	1	0	2.7	2.7	0	-0.68	-0.65	0	0	0	0	0	0
9/15/2024 21:20	46301	ROHR_T1	1	1	0	4.8	4.3	-0.5	0.23	0.2	0	0	0	0	0	0
9/15/2024 21:20	43302	WATS_T2	0	0	0	0	0	0	-0.85	-0.88	2	2	0	1800	1800	0
9/15/2024 21:20	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 21:20	56504	ROCK_T2	0	0	0	0	0	0	-0.92	-0.98	0	0	0	0	0	0
9/15/2024 21:20	44801	EDAN_T2	37	80	43	0.28	0.36	0.08	-1.54	-1.54	0	0	0	0	0	0
9/15/2024 21:20	56501	ROCK_T2	5	7	2	0.36	0.37	0.01	-0.91	-0.94	0	0	0	0	0	0
9/15/2024 21:20	47401	PENS_T1	0	0	0	0	0	0	-0.66	-0.63	0	0	0	0	0	0
9/15/2024 21:20	45501	DERR_T2	1	0	-1	0.9	0	-0.9	-1.45	-1.45	4	4	0	3600	3600	0
9/15/2024 21:20	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 21:21	14403	SSLA_T1	0	0	0	0	0	0	0.13	0.1	1	1	0	600	600	0
9/15/2024 21:21	64902	MILL_T2	0	0	0	0	0	0	-1.01	-1.04	1	1	0	900	900	0
9/15/2024 21:21	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 21:21	44505	HAMI_T2	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
9/15/2024 21:21	24901	WHHA_T1	0	0	0	0	0	0	-0.7	-0.73	0	0	0	0	0	0
9/15/2024 21:21	48901	FOSP_T2	0	0	0	0	0	0	-0.42	-0.41	1	1	0	600	600	0
9/15/2024 21:21	43202	MVIL_T2	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
9/15/2024 21:21	43304	WATS_T2	0	0	0	0	0	0	-1.87	-1.9	0	0	0	0	0	0
9/15/2024 21:21	24902	WHHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 21:21	64101	REFR_T1	197	143	-54	0.59	0.39	-0.2	-0.01	-0.01	0	0	0	0	0	0
9/15/2024 21:21	44502	HAMI_T2	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0	0
9/15/2024 21:21	67503	WEWI_T2	1	1	0	5.9	6.1	0.2	-0.56	-0.57	0	0	0	0	0	0
9/15/2024 21:21	46004	BERW_T2	0	1	1	0	0	0	-0.52	-0.52	0	0	0	0	0	0
9/15/2024 21:21	64301	LINC_T1	0	0	0	0	0	0	-0.52	0.37	0	0	0	0	0	0
9/15/2024 21:21	44802	EDAN_T2	0	0	0	0	0	0	-1.92	-1.93	0	0	0	0	0	0
9/15/2024 21:21	47101	MARL_T1	1	0	-1	0.2	0	-0.2	-0.13	-0.13	0	0	0	0	0	0
9/15/2024 21:21	20603	GRWO_T2	0	0	0	0	0	0	-0.5	-0.53	1	1	0	900	900	0
9/15/2024 21:21	43301	WATS_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/15/2024 21:21	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 21:21	52202	DEVO_T2	0	0	0	0	0	0	-1.11	0.08	0	0	0	0	0	0
9/15/2024 21:21	60101	COCA_T1	0	0	0	0	0	0	0.55	0.65	0	0	0	0	0	0
9/15/2024 21:21	52204	DEVO_T2	3	4	1	0.9	0.67	-0.23	0	0	0	0	0	0	0	0
9/15/2024 21:21	67605	WARW_T1	4	4	0	0.93	0.85	-0.08	-1.24	-1.21	0	0	0	0	0	0
9/15/2024 21:21	20403	ASHF_T2	0	0	0	0	0	0	0.82	0.76	0	0	0	0	0	0
9/15/2024 21:21	65503	MOJO_T2	0	0	0	0	0	0	-1.04	-1.03	1	1	0	900	900	0
9/15/2024 21:21	10801	CHHI_T1	0	0	0	0	0	0	-1.78	-1.76	3	3	0	2100	2100	0
9/15/2024 21:21	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 21:21	51101	CARL_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
9/15/2024 21:21	44801	EDAN_T2	37	80	43	0.28	0.36	0.08	0	0	0	0	0	0	0	0
9/15/2024 21:22	47402	PENS_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 21:22	65503	MOJO_T2	0	0	0	0	0	0	-1.03	-0.12	1	0	-1	900	0	-900
9/15/2024 21:22	47401	PENS_T1	0	0	0	0	0	0	-0.63	-0.14	0	0	0	0	0	0
9/15/2024 21:22	55002	NEWP_T1	6	6	0	1	1.22	0.22	-0.17	-0.18	0	0	0	0	0	0
9/15/2024 21:22	47101	MARL_T1	1	0	-1	0.2	0	-0.2	-0.13	-0.13	0	0	0	0	0	0
9/15/2024 21:22	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/15/2024 21:22	44301	BEAV_T2	2	3	1	0.2	0.55	0.35	-1.63	-1.58	1	1	0	600	600	0
9/15/2024 21:22	47901	HRDG_T1	0	0	0	0	0	0	0.91	0.72	0	0	0	0	0	0
9/15/2024 21:22	66505	SMAN_T2	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
9/15/2024 21:22	61802	EELI_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
9/15/2024 21:22	63501	HEID_TBK1-2	48	49	1	0.9	0.72	-0.18	-0.2	-0.34	1	1	0	900	900	0
9/15/2024 21:22	66502	SMAN_T2	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
9/15/2024 21:22	13503	MCMI_T2	54	91	37	0.29	0.34	0.05	-0.84	-0.85	0	0	0	0	0	0
9/15/2024 21:22	44302	BEAV_T2	0	22	22	0	0.12	0.12	0	0	0	0	0	0	0	0
9/15/2024 21:22	47104	MARL_T1	0	0	0	0	0	0	-0.73	-0.71	0	0	0	0	0	0
9/15/2024 21:22	65604	QVIL_T2	0	0	0	0	0	0	0.45	0.38	0	0	0	0	0	0
9/15/2024 21:22	40101	HUNT_T2	2	0	-2	0.4	0	-0.4	-0.88	-0.88	0	0	0	0	0	0
9/15/2024 21:22	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 21:22	42701	AUGU_T1	1	2	1	0.9	1.3	0.4	0	0	4	4	0	3600	3600	0
9/15/2024 21:23	67602	WARW_T2	0	0	0	0	0	0	0.21	0.18	1	1	0	300	300	0
9/15/2024 21:23	46504	LOHA_T1	2	2	0	0.6	1	0.4	0	0	0	0	0	0	0	0
9/15/2024 21:23	67602	WARW_T2	0	0	0	0	0	0	0.41	0.36	2	2	0	600	600	0
9/15/2024 21:23	45802	HEGI_T2	20	40	20	0.27	0.48	0.21	0.71	0.78	0	0	0	0	0	0
9/15/2024 21:23	42801	SELI_T1	0	0	0	0	0	0	-1.25	-1.21	1	1	0	1200	1200	0
9/15/2024 21:23	46803	HEPB_T2	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
9/15/2024 21:23	46506	LOHA_T1	3	4	1	4.1	3.73	-0.37	0	0	0	0	0	0	0	0
9/15/2024 21:23	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
9/15/2024 21:23	56501	ROCK_T2	5	7	2	0.36	0.37	0.01	-0.94	-0.98	0	0	0	0	0	0
9/15/2024 21:23	64101	REFR_T1	197	143	-54	0.59	0.39	-0.2	-0.01	-0.01	0	0	0	0	0	0
9/15/2024 21:23	55101	WERT_T1	0	0	0	0	0	0	-2.07	-2.06	3	3	0	2400	2400	0
9/15/2024 21:23	52004	LING_T2	2	2	0	4.55	4.55	0	0	0	0	0	0	0	0	0
9/15/2024 21:23	46801	HEPB_T2	2	2	0	1.45	1.65	0.2	0	0	0	0	0	0	0	0
9/15/2024 21:23	52501	PROG_T1	4	11	7	0.1	0.15	0.05	-1.15	-1.17	1	1	0	300	300	0
9/15/2024 21:23	44902	SCOT_T2	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
9/15/2024 21:23	46101	MACI_T2	0	0	0	0	0	0	0.68	0.64	0	0	0	0	0	0
9/15/2024 21:23	42701	AUGU_T1	1	2	1	0.9	1.3	0.4	0	0	2	2	0	1800	1800	0
9/15/2024 21:23	40101	HUNT_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/15/2024 21:23	44801	EDAN_T2	37	80	43	0.28	0.36	0.08	-1.54	-1.58	0	0	0	0	0	0
9/15/2024 21:23	57401	SPAN_T1	0	0	0	0	0	0	-1.17	-1.22	1	1	0	600	600	0
9/15/2024 21:23	43301	WATS_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/15/2024 21:23	10705	CATA_T2	0	0	0	0	0	0	-1.9	-1.99	1	1	0	900	900	0
9/15/2024 21:23	60502	NMAN_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
9/15/2024 21:23	43304	WATS_T2	0	0	0	0	0	0	-0.95	-0.61	0	0	0	0	0	0
9/15/2024 21:23	55002	NEWP_T1	6	6	0	1	1.22	0.22	0	0	0	0	0	0	0	0
9/15/2024 21:23	52002	LING_T2	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
9/15/2024 21:23	55001	NEWP_T1	0	1	1	0	0.1	0.1	-0.78	-0.17	1	0	-1	600	0	-600
9/15/2024 21:24	57205	ROSS_T1	0	0	0	0	0	0	-0.74	-0.74	1	1	0	900	900	0
9/15/2024 21:24	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 21:24	46102	MACI_T1	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
9/15/2024 21:24	64101	REFR_T1	197	143	-54	0.59	0.39	-0.2	-0.01	-0.01	0	0	0	0	0	0
9/15/2024 21:24	50107	HARR_T3	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
9/15/2024 21:24	42802	SELI_T1	0	0	0	0	0	0	-1.43	-1.44	1	1	0	900	900	0
9/15/2024 21:24	50103	HARR_T3	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/15/2024 21:24	61802	EELI_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
9/15/2024 21:24	21501	CEAV_T2	0	0	0	0	0	0	1.06	1.1	0	0	0	0	0	0
9/15/2024 21:24	44802	EDAN_T2	0	0	0	0	0	0	-1.93	-1.93	0	0	0	0	0	0
9/15/2024 21:24	63501	HEID_TBK1-2	48	49	1	0.9	0.72	-0.18	-0.4	-0.69	2	2	0	1800	1800	0
9/15/2024 21:24	44801	EDAN_T2	37	80	43	0.28	0.36	0.08	0	0	0	0	0	0	0	0
9/15/2024 21:24	53501	EVIL_T2	2	2	0	0.75	0.7	-0.05	-0.01	-0.01	1	1	0	600	600	0
9/15/2024 21:24	50201	HARR_T3	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/15/2024 21:24	50105	HARR_T3	6	6	0	5.82	5.68	-0.14	0	0	0	0	0	0	0	0
9/15/2024 21:25	43301	WATS_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/15/2024 21:25	57104	SPHI_T2	1	2	1	0.7	0.3	-0.4	-1.34	-1.37	1	1	0	900	900	0
9/15/2024 21:25	57106	SPHI_T2	3	3	0	1.23	1.5	0.27	0	0	0	0	0	0	0	0
9/15/2024 21:25	47901	HRDG_T1	0	0	0	0	0	0	0.91	0.72	0	0	0	0	0	0
9/15/2024 21:25	57101	SPHI_T2	0	6	6	0	0.6	0.6	0	0	0	0	0	0	0	0
9/15/2024 21:25	41902	REED_T1	0	0	0	0	0	0	0.98	0.96	0	0	0	0	0	0
9/15/2024 21:25	58402	MORO_T1	0	0	0	0	0	0	0.16	0.11	1	1	0	900	900	0
9/15/2024 21:25	67203	TEHI_T1	0	0	0	0	0	0	1.09	1.18	1	1	0	900	900	0
9/15/2024 21:25	56501	ROCK_T2	5	7	2	0.36	0.37	0.01	-1.89	-1.97	0	0	0	0	0	0
9/15/2024 21:25	55101	WERT_T1	0	0	0	0	0	0	-2.07	-2.06	3	3	0	2400	2400	0
9/15/2024 21:25	42903	MIDD_T2	2	2	0	0.9	1.1	0.2	-0.5	-0.47	0	0	0	0	0	0
9/15/2024 21:25	54701	NEBL_T1	1	1	0	1.8	1.8	0	0	0	1	1	0	600	600	0
9/15/2024 21:25	64101	REFR_T1	197	143	-54	0.59	0.39	-0.2	-0.02	-0.02	0	0	0	0	0	0
9/15/2024 21:25	66703	STRA_T1	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
9/15/2024 21:25	42201	SHEN_T2	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
9/15/2024 21:25	53601	DALM_T2	1	1	0	0.5	0.7	0.2	0.21	0.17	0	0	0	0	0	0
9/15/2024 21:25	67703	WERN_T2	0	0	0	0	0	0	-0.67	-0.63	1	1	0	900	900	0
9/15/2024 21:25	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 21:25	43304	WATS_T2	0	0	0	0	0	0	-0.95	-0.61	0	0	0	0	0	0
9/15/2024 21:25	12701	MACU_T1	0	0	0	0	0	0	-1.1	-1.12	1	1	0	1200	1200	0
9/15/2024 21:25	47101	MARL_T1	1	0	-1	0.2	0	-0.2	-0.13	-0.13	0	0	0	0	0	0
9/15/2024 21:25	46801	HEPB_T2	2	2	0	1.45	1.65	0.2	-0.19	-0.22	0	0	0	0	0	0
9/15/2024 21:25	44905	SCOT_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/15/2024 21:26	47101	MARL_T1	1	0	-1	0.2	0	-0.2	-0.13	-0.13	0	0	0	0	0	0
9/15/2024 21:26	53902	HALI_T2	1	1	0	4.7	5.3	0.6	-0.84	-0.87	0	0	0	0	0	0
9/15/2024 21:26	52004	LING_T2	2	2	0	4.55	4.55	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/15/2024 21:26	46203	DANV_T2	1	1	0	6.8	6.8	0	-1.81	-1.82	0	0	0	0	0	0
9/15/2024 21:26	52002	LING_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
9/15/2024 21:26	43304	WATS_T2	0	0	0	0	0	0	-0.95	-0.61	0	0	0	0	0	0
9/15/2024 21:26	45501	DERR_T2	1	0	-1	0.9	0	-0.9	-0.72	-0.74	2	2	0	1800	1800	0
9/15/2024 21:26	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 21:26	64202	KINZ_T1	3	3	0	0.7	0.57	-0.13	0	0	0	0	0	0	0	0
9/15/2024 21:26	64204	KINZ_T1	1	1	0	0.3	1.2	0.9	0	0	0	0	0	0	0	0
9/15/2024 21:26	43301	WATS_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/15/2024 21:26	56501	ROCK_T2	5	7	2	0.36	0.37	0.01	-0.94	-0.98	0	0	0	0	0	0
9/15/2024 21:26	67201	TEHI_T1	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
9/15/2024 21:26	53901	HALI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/15/2024 21:26	64101	REFR_T1	197	143	-54	0.59	0.39	-0.2	-0.02	-0.02	0	0	0	0	0	0
9/15/2024 21:26	55105	WERT_T1	0	0	0	0	0	0	-0.07	-0.03	1	1	0	900	900	0
9/15/2024 21:26	42802	SELI_T1	0	0	0	0	0	0	-2.87	-2.88	2	2	0	1800	1800	0
9/15/2024 21:26	64203	KINZ_T1	0	0	0	0	0	0	-0.3	-0.33	1	1	0	600	600	0
9/15/2024 21:27	58401	MORO_T1	0	0	0	0	0	0	-1.9	-1.98	2	2	0	1200	1200	0
9/15/2024 21:27	55101	WERT_T1	0	0	0	0	0	0	-4.15	-4.13	6	6	0	4800	4800	0
9/15/2024 21:27	46901	MNTG_T2	0	0	0	0	0	0	-0.92	-1.02	1	1	0	1200	1200	0
9/15/2024 21:27	51204	MTON_T2	0	0	0	0	0	0	-0.3	-0.33	1	1	0	600	600	0
9/15/2024 21:27	45501	DERR_T2	1	0	-1	0.9	0	-0.9	-0.72	-0.74	2	2	0	1800	1800	0
9/15/2024 21:27	60101	COCA_T1	0	0	0	0	0	0	0.65	0.54	0	0	0	0	0	0
9/15/2024 21:27	65502	MOJO_T2	0	0	0	0	0	0	-1.68	-1.68	1	1	0	900	900	0
9/15/2024 21:28	44801	EDAN_T2	37	80	43	0.28	0.36	0.08	0	0	0	0	0	0	0	0
9/15/2024 21:28	43304	WATS_T2	0	0	0	0	0	0	-1.9	-1.23	0	0	0	0	0	0
9/15/2024 21:28	41902	REED_T1	0	0	0	0	0	0	0.98	0.96	0	0	0	0	0	0
9/15/2024 21:28	44802	EDAN_T2	0	0	0	0	0	0	-1.93	-1.93	0	0	0	0	0	0
9/15/2024 21:28	42802	SELI_T1	0	0	0	0	0	0	-1.43	-1.44	1	1	0	900	900	0
9/15/2024 21:28	58401	MORO_T1	0	0	0	0	0	0	-0.95	-0.99	1	1	0	600	600	0
9/15/2024 21:28	40101	HUNT_T2	2	0	-2	0.4	0	-0.4	-0.88	-0.88	0	0	0	0	0	0
9/15/2024 21:28	42701	AUGU_T1	1	2	1	0.9	1.3	0.4	0	0	0	0	0	0	0	0
9/15/2024 21:28	43301	WATS_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/15/2024 21:28	55101	WERT_T1	0	0	0	0	0	0	-2.07	-2.06	3	3	0	2400	2400	0
9/15/2024 21:29	41903	REED_T1	0	0	0	0	0	0	-0.47	-0.47	1	1	0	1200	1200	0
9/15/2024 21:29	67602	WARW_T2	0	0	0	0	0	0	0.21	0.18	1	1	0	300	300	0
9/15/2024 21:29	58401	MORO_T1	0	0	0	0	0	0	-0.95	-0.99	1	1	0	600	600	0
9/15/2024 21:29	42802	SELI_T1	0	0	0	0	0	0	-1.43	-1.44	1	1	0	900	900	0
9/15/2024 21:30	53501	EVIL_T2	1	2	1	1.3	0.95	-0.35	-0.01	-0.01	1	1	0	600	600	0
9/15/2024 21:30	43304	WATS_T2	0	0	0	0	0	0	-0.95	-0.61	0	0	0	0	0	0
9/15/2024 21:30	46302	ROHR_T1	3	4	1	0.67	0.45	-0.22	0.19	0.17	0	0	0	0	0	0
9/15/2024 21:30	47101	MARL_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
9/15/2024 21:30	46301	ROHR_T1	1	1	0	4	4.4	0.4	0	0	0	0	0	0	0	0
9/15/2024 21:30	43301	WATS_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
9/15/2024 21:31	46504	LOHA_T1	2	2	0	0.85	1.35	0.5	0	0	0	0	0	0	0	0
9/15/2024 21:31	41001	LAUR_T2	6	47	41	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/15/2024 21:31	46506	LOHA_T1	3	4	1	4.57	3.73	-0.84	0	0	0	0	0	0	0	0
9/15/2024 21:31	44302	BEAV_T2	21	11	-10	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
9/15/2024 21:31	45501	DERR_T2	0	0	0	0	0	0	-0.72	-0.74	2	2	0	1800	1800	0
9/15/2024 21:31	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
9/15/2024 21:31	41002	LAUR_T2	2	13	11	1.15	0.32	-0.83	0.12	0.1	0	0	0	0	0	0
9/15/2024 21:31	44301	BEAV_T2	3	2	-1	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
9/15/2024 21:34	67503	WEWI_T2	1	1	0	6.1	6.5	0.4	-0.57	-0.61	0	0	0	0	0	0
9/15/2024 21:44	40101	HUNT_T2	0	1	1	0	0	0	-0.88	-0.91	0	0	0	0	0	0
9/15/2024 21:46	57401	SPAN_T1	0	2	2	0	0.3	0.3	-1.22	-1.24	1	1	0	600	600	0
9/15/2024 21:46	57403	SPAN_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
9/15/2024 21:54	64501	LAVI_T1	0	0	0	0	0	0	-0.27	-0.26	0	0	0	0	0	0
9/15/2024 22:20	44801	EDAN_T2	126	155	29	0.41	0.45	0.04	-1.57	-1.59	0	0	0	0	0	0
9/15/2024 22:30	56501	ROCK_T2	6	10	4	0.47	0.39	-0.08	-1.09	-1.17	0	0	0	0	0	0
9/15/2024 22:31	46203	DANV_T2	1	1	0	7.8	8.2	0.4	-1.96	-1.99	0	0	0	0	0	0
9/15/2024 22:41	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2024 22:51	10801	CHHI_T1	0	0	0	0	0	0	-1.31	-0.69	2	2	0	1500	1500	0
9/15/2024 23:01	63403	HONY_T2	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
9/15/2024 23:01	63402	HONY_T2	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
9/16/2024 0:08	24902	WHHA_T1	1	1	0	0.4	0.4	0	0.67	0.68	0	0	0	0	0	0
9/16/2024 7:22	67805	WLAN_T1	0	0	0	0	0	0	-0.99	-0.96	0	0	0	0	0	0
9/16/2024 7:34	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 7:45	52001	LING_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
9/16/2024 7:45	55503	HERS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 7:45	55507	HERS_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
9/16/2024 7:47	47802	MOCA_T2	0	0	0	0	0	0	-0.86	-0.83	0	0	0	0	0	0
9/16/2024 7:48	48301	ORWI_T1	2	2	0	4.8	5	0.2	-0.43	-0.43	1	1	0	900	900	0
9/16/2024 7:50	55101	WERT_T1	0	0	0	0	0	0	-1.12	-1.02	2	2	0	1500	1500	0
9/16/2024 7:51	55101	WERT_T1	0	0	0	0	0	0	-1.02	-0.85	2	2	0	1500	1500	0
9/16/2024 7:52	42802	SELI_T1	0	0	0	0	0	0	-1.09	-1.08	1	1	0	900	900	0
9/16/2024 7:54	55101	WERT_T1	0	0	0	0	0	0	-1.02	-0.85	2	2	0	1500	1500	0
9/16/2024 7:55	53601	DALM_T2	1	1	0	1.5	1.4	-0.1	-0.38	-0.33	1	1	0	900	900	0
9/16/2024 7:58	40101	HUNT_T2	0	0	0	0	0	0	-0.65	-0.62	0	0	0	0	0	0
9/16/2024 8:04	12605	MACA_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
9/16/2024 8:05	12801	MICK_T1	0	0	0	0	0	0	-0.9	-0.86	1	1	0	600	600	0
9/16/2024 8:05	12807	MICK_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/16/2024 8:06	43801	SWIL_T1	2	1	-1	2.7	5.2	2.5	0	0	0	0	0	0	0	0
9/16/2024 8:06	55102	WERT_T2	0	0	0	0	0	0	-0.89	-0.83	2	1	-1	1200	600	-600
9/16/2024 8:06	43802	SWIL_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
9/16/2024 8:07	24901	WHHA_T1	0	0	0	0	0	0	0.97	0.88	0	0	0	0	0	0
9/16/2024 8:07	24902	WHHA_T1	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
9/16/2024 8:08	59101	WALK_T2	1	1	0	0.2	0	-0.2	1.64	1.61	1	1	0	600	600	0
9/16/2024 8:09	59101	WALK_T2	1	1	0	0.2	0	-0.2	1.64	1.61	1	1	0	600	600	0
9/16/2024 8:10	46001	BERW_T1	0	0	0	0	0	0	1.25	0.15	0	0	0	0	0	0
9/16/2024 8:13	24105	EHAZ_T1	4	4	0	6.23	6	-0.23	0	0	0	0	0	0	0	0
9/16/2024 8:13	24104	EHAZ_T1	0	2	2	0	0.1	0.1	-2.15	-2.16	1	1	0	1200	1200	0
9/16/2024 8:15	63501	HEID_TBK1-2	48	48	0	0.49	0.54	0.05	0.12	0.15	1	1	0	900	900	0
9/16/2024 8:16	63501	HEID_TBK1-2	48	48	0	0.49	0.54	0.05	0.12	0.15	1	1	0	900	900	0
9/16/2024 8:16	27101	GFLD_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
9/16/2024 8:19	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/16/2024 8:19	65206	PRIN_T4	1	2	1	10	0	-10	0	0	0	0	0	0	0	0
9/16/2024 8:19	65207	PRIN_T4	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/16/2024 8:22	65601	OVIL_T2	0	0	0	0	0	0	-1.13	-1.21	1	1	0	900	900	0
9/16/2024 8:23	14404	SSLA_T1	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
9/16/2024 8:23	57003	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 8:23	57004	WHHI_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
9/16/2024 8:23	57006	WHHI_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
9/16/2024 8:24	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 8:26	67603	WARW_T1	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
9/16/2024 8:26	44801	EDAN_T2	138	148	10	0.38	0.42	0.04	-1.67	-1.63	0	0	0	0	0	0
9/16/2024 8:26	67605	WARW_T1	19	35	16	0.48	0.61	0.13	0	0	0	0	0	0	0	0
9/16/2024 8:27	44502	HAMI_T2	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
9/16/2024 8:27	44503	HAMI_T2	0	1	1	0	0.7	0.7	-1.22	-1.24	1	1	0	1200	1200	0
9/16/2024 8:28	28704	HAML_T2	1	1	0	0.2	0.2	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 8:28	28703	HAML_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
9/16/2024 8:29	54502	ENOL_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
9/16/2024 8:29	54505	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/16/2024 8:29	54506	ENOL_T2	0	0	0	0	0	0	0.65	0.58	1	1	0	600	600	0
9/16/2024 8:29	54501	ENOL_T2	4	4	0	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
9/16/2024 8:32	16902	MECK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 8:34	46501	LOHA_T1	0	0	0	0	0	0	0.12	0.04	1	1	0	1200	1200	0
9/16/2024 8:34	46504	LOHA_T1	2	2	0	0.85	0.35	-0.5	0	0	0	0	0	0	0	0
9/16/2024 8:34	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 8:34	46506	LOHA_T1	3	3	0	5.17	5.43	0.26	0	0	0	0	0	0	0	0
9/16/2024 8:35	40602	PIGR_T1	1	1	0	0.8	0.9	0.1	-1.09	-0.98	2	2	0	1200	1200	0
9/16/2024 8:35	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 8:37	20401	ASHF_T2	2	2	0	0.15	0.55	0.4	0	0	0	0	0	0	0	0
9/16/2024 8:37	20403	ASHF_T2	0	4	4	0	0.13	0.13	0.39	0.38	0	0	0	0	0	0
9/16/2024 8:39	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 8:40	57101	SPHI_T2	6	6	0	0.92	1.23	0.31	0.32	0.37	0	0	0	0	0	0
9/16/2024 8:40	57106	SPHI_T2	3	3	0	1.63	1.53	-0.1	0	0	0	0	0	0	0	0
9/16/2024 8:40	57104	SPHI_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/16/2024 8:43	48303	ORWI_T2	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
9/16/2024 8:43	48302	ORWI_T2	2	2	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
9/16/2024 8:46	46001	BERW_T1	0	0	0	0	0	0	0.07	0.39	0	0	0	0	0	0
9/16/2024 8:47	53901	HALI_T2	1	2	1	1.2	1.2	0	-1.37	-1.29	0	0	0	0	0	0
9/16/2024 8:47	53902	HALI_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
9/16/2024 8:47	53903	HALI_T2	2	2	0	1.4	1.4	0	0	0	0	0	0	0	0	0
9/16/2024 8:48	11405	FARM_T1	0	0	0	0	0	0	-1.06	-1.06	1	1	0	1200	1200	0
9/16/2024 8:50	11507	FREE_T2	0	0	0	0	0	0	0.77	0.76	0	0	0	0	0	0
9/16/2024 8:50	53902	HALI_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
9/16/2024 8:50	61503	EPET_T1	0	0	0	0	0	0	-1.9	-2	0	0	0	0	0	0
9/16/2024 8:50	53903	HALI_T2	2	2	0	1.4	1.4	0	0	0	0	0	0	0	0	0
9/16/2024 8:50	53901	HALI_T2	1	2	1	1.2	1.2	0	-5.47	-5.18	0	0	0	0	0	0
9/16/2024 8:51	55101	WERT_T1	0	0	0	0	0	0	-0.86	-1.54	2	2	0	1500	1500	0
9/16/2024 8:52	53903	HALI_T2	2	2	0	1.4	1.4	0	0	0	0	0	0	0	0	0
9/16/2024 8:52	53901	HALI_T2	1	2	1	1.2	1.2	0	-1.29	-1.29	0	0	0	0	0	0
9/16/2024 8:52	53902	HALI_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
9/16/2024 8:53	52004	LING_T2	2	2	0	6	6	0	0.85	0.84	0	0	0	0	0	0
9/16/2024 8:53	40602	PIGR_T1	1	1	0	0.9	0.9	0	-0.58	-0.52	1	1	0	600	600	0
9/16/2024 8:53	15603	NSTR_T2	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
9/16/2024 8:53	52006	LING_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/16/2024 8:53	15601	NSTR_T2	2	3	1	0.2	0.67	0.47	0	0	0	0	0	0	0	0
9/16/2024 8:54	56501	ROCK_T2	2	4	2	0.7	0.6	-0.1	0.04	0	0	0	0	0	0	0
9/16/2024 8:56	55002	NEWP_T1	6	8	2	0.78	0.91	0.13	-0.21	-0.21	0	0	0	0	0	0
9/16/2024 8:57	15702	TANN_T2	0	0	0	0	0	0	-0.45	-0.38	0	0	0	0	0	0
9/16/2024 8:57	55002	NEWP_T1	6	8	2	0.78	0.91	0.13	-0.21	-0.21	0	0	0	0	0	0
9/16/2024 8:57	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 8:57	15703	TANN_T2	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
9/16/2024 8:58	56501	ROCK_T2	2	4	2	0.7	0.6	-0.1	0.04	0	0	0	0	0	0	0
9/16/2024 8:58	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 8:58	67605	WARW_T1	27	34	7	0.54	0.54	0	0	0	0	0	0	0	0	0
9/16/2024 8:59	42201	SHEN_T2	0	0	0	0	0	0	0.07	0.08	1	1	0	600	600	0
9/16/2024 9:00	15704	TANN_T1	4	36	32	0.23	0.15	-0.08	-0.71	-0.71	0	0	0	0	0	0
9/16/2024 9:00	15701	TANN_T1	2	2	0	2.6	2.8	0.2	0	0	0	0	0	0	0	0
9/16/2024 9:01	45902	AUBU_T1	0	0	0	0	0	0	-0.55	-0.56	1	1	0	600	600	0
9/16/2024 9:02	67605	WARW_T1	33	24	-9	0.55	0.54	-0.01	-2.21	-2.15	0	0	0	0	0	0
9/16/2024 9:02	55508	HERS_T2	2	2	0	1.25	1.05	-0.2	-2.53	-2.49	1	1	0	1200	1200	0
9/16/2024 9:03	40802	EXCH_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/16/2024 9:03	62601	ENGL_T1	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/16/2024 9:03	40801	EXCH_T2	1	1	0	0.2	0.3	0.1	-0.54	-0.48	1	1	0	1200	1200	0
9/16/2024 9:03	55508	HERS_T2	2	2	0	1.25	1.05	-0.2	-2.53	-2.49	1	1	0	1200	1200	0
9/16/2024 9:07	55508	HERS_T2	2	2	0	1.25	1.05	-0.2	0	0	0	0	0	0	0	0
9/16/2024 9:08	14201	EALL_T1	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
9/16/2024 9:09	65901	SAKR_T2	1	1	0	8.5	8.5	0	-0.7	-0.65	1	1	0	600	600	0
9/16/2024 9:09	54202	PENN_T2	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
9/16/2024 9:09	64503	LAVI_T1	0	0	0	0	0	0	-1.32	0.36	1	1	0	1200	1200	0
9/16/2024 9:10	65904	SAKR_T2	0	0	0	0	0	0	-1.69	-1.69	2	2	0	900	900	0
9/16/2024 9:10	65901	SAKR_T2	1	1	0	8.5	8.5	0	0	0	0	0	0	0	0	0
9/16/2024 9:11	14401	SSLA_T1	0	1	1	0	0.1	0.1	-0.46	-0.44	0	0	0	0	0	0
9/16/2024 9:11	14402	SSLA_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
9/16/2024 9:11	64801	MONE_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/16/2024 9:11	47802	MOCA_T2	0	1	1	0	0.2	0.2	-0.94	-0.7	0	0	0	0	0	0
9/16/2024 9:11	14403	SSLA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/16/2024 9:11	64802	MONE_T2	0	1	1	0	0	0	0.28	0.29	0	0	0	0	0	0
9/16/2024 9:11	14404	SSLA_T1	1	3	2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/16/2024 9:13	55105	WERT_T1	0	0	0	0	0	0	-0.48	-0.41	1	1	0	900	900	0
9/16/2024 9:14	44601	SALE_T2	0	2	2	0	0	0	0	0	2	2	0	900	900	0
9/16/2024 9:18	44601	SALE_T2	0	2	2	0	0.4	0.4	0	0	2	2	0	900	900	0
9/16/2024 9:22	63501	HEID_TBK1-2	30	44	14	0.45	0.36	-0.09	0.62	0.58	2	2	0	1800	1800	0
9/16/2024 9:22	64904	MILL_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
9/16/2024 9:26	44903	SCOT_T1	0	0	0	0	0	0	0.35	0.42	0	0	0	0	0	0
9/16/2024 9:26	44904	SCOT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 9:26	66502	SMAN_T2	0	0	0	0	0	0	0.67	0.57	0	0	0	0	0	0
9/16/2024 9:27	66502	SMAN_T2	0	0	0	0	0	0	0.33	0.29	0	0	0	0	0	0
9/16/2024 9:28	55105	WERT_T1	0	0	0	0	0	0	-0.41	-0.39	1	1	0	900	900	0
9/16/2024 9:28	57505	LAWN_T3	0	0	0	0	0	0	0.57	0.62	0	0	0	0	0	0
9/16/2024 9:30	24902	WHHA_T1	1	2	1	0.2	0	-0.2	1.46	1.44	0	0	0	0	0	0
9/16/2024 9:32	53501	EVIL_T2	1	1	0	0.5	0.1	-0.4	-0.01	-0.01	1	1	0	600	600	0
9/16/2024 9:33	44801	EDAN_T2	51	212	161	0.31	0.64	0.33	-1.58	-1.53	0	0	0	0	0	0
9/16/2024 9:33	44802	EDAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
9/16/2024 9:33	53501	EVIL_T2	1	1	0	0.5	0.1	-0.4	-0.01	-0.01	2	2	0	1200	1200	0
9/16/2024 9:34	53501	EVIL_T2	1	1	0	0.5	0.1	-0.4	-0.01	-0.01	2	2	0	1200	1200	0
9/16/2024 9:36	53501	EVIL_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
9/16/2024 9:36	53502	EVIL_T2	0	0	0	0	0	0	0.46	0.63	2	2	0	1200	1200	0
9/16/2024 9:38	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-0.45	-0.56	0	0	0	0	0	0
9/16/2024 9:41	66502	SMAN_T2	0	1	1	0	0.3	0.3	0.29	0.4	0	0	0	0	0	0
9/16/2024 9:42	66502	SMAN_T2	0	1	1	0	0.3	0.3	0.29	0.4	0	0	0	0	0	0
9/16/2024 9:43	67804	WLAN_T1	0	1	1	0	0.2	0.2	-2.22	-2.22	0	0	0	0	0	0
9/16/2024 9:43	66503	SMAN_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
9/16/2024 9:43	66502	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/16/2024 9:44	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/16/2024 9:44	49803	UNIV_T1	1	1	0	6	6	0	-0.94	-0.86	0	0	0	0	0	0
9/16/2024 9:44	67801	WLAN_T1	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
9/16/2024 9:44	67804	WLAN_T1	0	1	1	0	0.2	0.2	-1.11	-1.11	0	0	0	0	0	0
9/16/2024 9:45	67804	WLAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/16/2024 9:45	67803	WLAN_T1	0	0	0	0	0	0	-0.78	-0.86	0	0	0	0	0	0
9/16/2024 9:46	67802	WLAN_T1	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
9/16/2024 9:46	45501	DERR_T2	0	5	5	0	0	0	0.62	0.72	2	2	0	1800	1800	0
9/16/2024 9:46	67804	WLAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/16/2024 9:46	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 9:46	67803	WLAN_T1	0	0	0	0	0	0	-0.78	-0.86	0	0	0	0	0	0
9/16/2024 9:46	44203	POIN_T2	0	0	0	0	0	0	-0.15	0.01	2	2	0	2100	2100	0
9/16/2024 9:47	67203	TEHI_T1	0	0	0	0	0	0	2.14	2.24	3	3	0	2100	2100	0
9/16/2024 9:48	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 9:48	67804	WLAN_T1	1	1	0	0.1	0.2	0.1	-1.11	-1.11	0	0	0	0	0	0
9/16/2024 9:48	45501	DERR_T2	0	5	5	0	0	0	0.62	0.72	2	2	0	1800	1800	0
9/16/2024 9:48	43301	WATS_T2	1	1	0	0.7	0.8	0.1	-0.59	-0.59	1	1	0	900	900	0
9/16/2024 9:48	67801	WLAN_T1	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
9/16/2024 9:49	67804	WLAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/16/2024 9:49	67803	WLAN_T1	0	0	0	0	0	0	-0.78	-0.86	0	0	0	0	0	0
9/16/2024 9:50	23902	EFMO_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/16/2024 9:50	23901	EFMO_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
9/16/2024 9:51	44502	HAMI_T2	1	1	0	2.4	2.3	-0.1	-0.67	-0.64	0	0	0	0	0	0
9/16/2024 9:52	67803	WLAN_T1	0	0	0	0	0	0	-0.86	-0.85	0	0	0	0	0	0
9/16/2024 9:52	67804	WLAN_T1	1	1	0	0.1	0.2	0.1	-2.22	-2.22	0	0	0	0	0	0
9/16/2024 9:54	16402	MOPO_T1	1	0	-1	3.1	0	-3.1	0.7	0.7	0	0	0	0	0	0
9/16/2024 9:54	64305	LINC_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
9/16/2024 9:55	66901	SHIL_T2	37	6	-31	0.12	0.13	0.01	0	0	0	0	0	0	0	0
9/16/2024 9:55	66902	SHIL_T2	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
9/16/2024 9:55	16402	MOPO_T1	1	0	-1	3.1	0	-3.1	0.7	0.7	0	0	0	0	0	0
9/16/2024 9:55	66903	SHIL_T2	2	1	-1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
9/16/2024 9:56	66903	SHIL_T2	2	1	-1	0.15	0.3	0.15	-1.78	-1.8	0	0	0	0	0	0
9/16/2024 9:56	67804	WLAN_T1	1	0	-1	0.1	0.2	0.1	-1.11	-1.11	0	0	0	0	0	0
9/16/2024 9:56	66901	SHIL_T2	37	6	-31	0.12	0.13	0.01	0	0	0	0	0	0	0	0
9/16/2024 9:56	42302	MOWR_T2	0	0	0	0	0	0	1.19	1.2	0	0	0	0	0	0
9/16/2024 9:56	67805	WLAN_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
9/16/2024 9:57	13704	SCHN_T2	5	7	2	0.24	0.23	-0.01	-0.25	-0.18	0	0	0	0	0	0
9/16/2024 9:57	13701	SCHN_T2	3	6	3	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
9/16/2024 9:57	55002	NEWP_T1	7	8	1	0.96	0.99	0.03	-0.18	-0.18	0	0	0	0	0	0
9/16/2024 9:57	67804	WLAN_T1	1	1	0	0.1	0.2	0.1	-1.11	-1.11	0	0	0	0	0	0
9/16/2024 9:57	67803	WLAN_T1	0	0	0	0	0	0	-1.72	-1.7	0	0	0	0	0	0
9/16/2024 9:58	20403	ASHF_T2	3	7	4	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/16/2024 9:58	20401	ASHF_T2	7	9	2	0.4	0.41	0.01	-0.27	-0.17	0	0	0	0	0	0
9/16/2024 9:59	67502	WEWI_T2	0	0	0	0	0	0	-0.5	-0.33	0	0	0	0	0	0
9/16/2024 9:59	20403	ASHF_T2	3	7	4	0.1	0.3	0.2	0.38	0.25	0	0	0	0	0	0
9/16/2024 9:59	67503	WEWI_T2	1	1	0	9	8.8	-0.2	0	0	0	0	0	0	0	0
9/16/2024 9:59	20401	ASHF_T2	7	9	2	0.4	0.41	0.01	0	0	0	0	0	0	0	0
9/16/2024 9:59	64602	LEOL_T1	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
9/16/2024 10:00	53903	HALI_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
9/16/2024 10:00	44502	HAMI_T2	1	1	0	2.3	2.1	-0.2	-0.64	-0.65	0	0	0	0	0	0
9/16/2024 10:00	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/16/2024 10:00	28703	HAML_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/16/2024 10:00	28704	HAML_T2	1	1	0	0.1	0.5	0.4	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.59	0.51	0	0	0	0	0	0
9/16/2024 10:00	28701	HAML_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
9/16/2024 10:00	66901	SHIL_T2	6	1	-5	0.13	0.2	0.07	0	0	0	0	0	0	0	0
9/16/2024 10:00	20401	ASHF_T2	7	9	2	0.47	0.42	-0.05	0	0	0	0	0	0	0	0
9/16/2024 10:00	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/16/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	0.66	0.67	1	1	0	600	600	0
9/16/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	-0.01	-0.14	0	0	0	0	0	0
9/16/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.17	-0.23	0	0	0	0	0	0
9/16/2024 10:00	62601	ENGL_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
9/16/2024 10:00	55508	HERS_T2	2	2	0	0.8	0.9	0.1	-4.93	-4.92	2	2	0	2400	2400	0
9/16/2024 10:00	53901	HALI_T2	1	1	0	1	1	0	-1.23	-1.24	0	0	0	0	0	0
9/16/2024 10:00	15702	TANN_T2	3	6	3	0.27	0.35	0.08	-0.3	-0.31	0	0	0	0	0	0
9/16/2024 10:00	42701	AUGU_T1	2	2	0	0.35	0.35	0	0	0	2	2	0	1800	1800	0
9/16/2024 10:00	45902	AUBU_T1	0	0	0	0	0	0	-0.47	-0.41	1	1	0	600	600	0
9/16/2024 10:00	67605	WARW_T1	19	15	-4	0.53	0.49	-0.04	-1.06	-1.03	0	0	0	0	0	0
9/16/2024 10:00	66502	SMAN_T2	1	1	0	0.3	0.5	0.2	0.4	0.34	0	0	0	0	0	0
9/16/2024 10:00	53502	EVIL_T2	0	0	0	0	0	0	0.63	0.55	2	2	0	1200	1200	0
9/16/2024 10:00	20403	ASHF_T2	3	8	5	0.13	0.56	0.43	0.38	0.25	0	0	0	0	0	0
9/16/2024 10:00	67503	WEWI_T2	1	1	0	8.8	8.7	-0.1	-0.2	-0.2	0	0	0	0	0	0
9/16/2024 10:00	53501	EVIL_T2	0	2	2	0	0.6	0.6	-0.03	-0.03	5	5	0	3000	3000	0
9/16/2024 10:00	52402	GRPA_T2	4	5	1	0.33	0.34	0.01	0	0	0	0	0	0	0	0
9/16/2024 10:00	28805	LAKE_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
9/16/2024 10:00	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/16/2024 10:00	53902	HALI_T2	1	2	1	5.3	2.85	-2.45	0	0	0	0	0	0	0	0
9/16/2024 10:00	52403	GRPA_T2	44	76	32	0.57	0.79	0.22	-0.11	-0.1	0	0	0	0	0	0
9/16/2024 10:00	60504	NMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/16/2024 10:00	67603	WARW_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/16/2024 10:00	64503	LAVI_T1	0	0	0	0	0	0	-0.35	-0.43	2	2	0	2100	2100	0
9/16/2024 10:00	44503	HAMI_T2	0	0	0	0	0	0	-1.19	-1.15	1	1	0	1200	1200	0
9/16/2024 10:00	15703	TANN_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
9/16/2024 10:00	63501	HEID_TBK1-2	41	44	3	0.45	0.39	-0.06	0.53	0.53	2	2	0	1800	1800	0
9/16/2024 10:00	66903	SHIL_T2	1	1	0	0.3	0.7	0.4	-0.89	-0.9	0	0	0	0	0	0
9/16/2024 10:00	61503	EPET_T1	0	0	0	0	0	0	-1.69	-1.5	0	0	0	0	0	0
9/16/2024 10:00	28102	TWLA_T2	9	15	6	0.24	0.43	0.19	0.19	0.19	0	0	0	0	0	0
9/16/2024 10:00	64602	LEOL_T1	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
9/16/2024 10:01	66502	SMAN_T2	1	1	0	0.3	0.5	0.2	0.4	0.34	0	0	0	0	0	0
9/16/2024 10:02	48302	ORWI_T2	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
9/16/2024 10:03	67605	WARW_T1	19	15	-4	0.53	0.49	-0.04	-1.06	-1.03	0	0	0	0	0	0
9/16/2024 10:03	67603	WARW_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/16/2024 10:03	62604	ENGL_T1	0	0	0	0	0	0	-0.75	-0.7	1	1	0	600	600	0
9/16/2024 10:04	52002	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 10:04	42302	MOWR_T2	0	0	0	0	0	0	1.19	1.2	0	0	0	0	0	0
9/16/2024 10:04	45502	DERR_T2	0	1	1	0	0.7	0.7	0.2	0.28	1	1	0	300	300	0
9/16/2024 10:04	52004	LING_T2	2	2	0	5.4	5.65	0.25	0.48	0.54	0	0	0	0	0	0
9/16/2024 10:06	53601	DALM_T2	1	1	0	1.1	0.4	-0.7	-0.33	-0.27	1	1	0	900	900	0
9/16/2024 10:06	27101	GFLD_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
9/16/2024 10:07	11402	FARM_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/16/2024 10:07	11405	FARM_T1	0	2	2	0	0.35	0.35	-0.92	-0.9	1	1	0	1200	1200	0
9/16/2024 10:07	67503	WEWI_T2	1	1	0	8.8	8.7	-0.1	-0.2	-0.18	0	0	0	0	0	0
9/16/2024 10:08	55507	HERS_T1	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
9/16/2024 10:09	47403	PENS_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/16/2024 10:09	47401	PENS_T1	2	5	3	0.95	0.82	-0.13	-0.59	-0.56	0	0	0	0	0	0
9/16/2024 10:10	12601	MACA_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
9/16/2024 10:10	16402	MOPO_T1	0	0	0	0	0	0	0.7	0.73	0	0	0	0	0	0
9/16/2024 10:10	41902	REED_T1	0	0	0	0	0	0	1.09	1.07	0	0	0	0	0	0
9/16/2024 10:10	12605	MACA_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
9/16/2024 10:11	64305	LINC_T1	0	1	1	0	0.1	0.1	0.06	0.03	0	0	0	0	0	0
9/16/2024 10:11	16402	MOPO_T1	0	0	0	0	0	0	0.7	0.73	0	0	0	0	0	0
9/16/2024 10:11	65001	NEFF_T2	0	0	0	0	0	0	-0.56	-0.47	1	1	0	1200	1200	0
9/16/2024 10:11	58202	NEWV_T1	0	0	0	0	0	0	0.47	0.62	0	0	0	0	0	0
9/16/2024 10:11	42601	TUSC_T1	2	10	8	0.45	0.86	0.41	1	0.9	3	3	0	2400	2400	0
9/16/2024 10:12	47401	PENS_T1	2	5	3	0.95	0.82	-0.13	-1.18	-1.12	0	0	0	0	0	0
9/16/2024 10:12	56501	ROCK_T2	2	3	1	0.4	0.47	0.07	0.01	0	0	0	0	0	0	0
9/16/2024 10:12	42201	SHEN_T2	0	0	0	0	0	0	0.13	0.11	1	1	0	600	600	0
9/16/2024 10:12	47403	PENS_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/16/2024 10:12	24902	WHHA_T1	2	3	1	0.2	0.1	-0.1	0.75	0.74	0	0	0	0	0	0
9/16/2024 10:13	56501	ROCK_T2	2	3	1	0.4	0.47	0.07	0.01	0	0	0	0	0	0	0
9/16/2024 10:13	67203	TEHI_T1	0	0	0	0	0	0	2.3	2.21	3	3	0	2100	2100	0
9/16/2024 10:13	47401	PENS_T1	2	5	3	0.95	0.82	-0.13	-0.59	-0.56	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/16/2024 10:13	47403	PENS_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/16/2024 10:13	59101	WALK_T2	0	0	0	0	0	0	2.25	2.07	0	0	0	0	0	0
9/16/2024 10:14	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/16/2024 10:14	20403	ASHF_T2	3	8	5	0.13	0.56	0.43	0.25	0.24	0	0	0	0	0	0
9/16/2024 10:14	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 10:14	20401	ASHF_T2	7	9	2	0.47	0.42	-0.05	0	0	0	0	0	0	0	0
9/16/2024 10:14	57205	ROSS_T1	1	1	0	0.6	0.9	0.3	0.28	0.26	0	0	0	0	0	0
9/16/2024 10:15	20402	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/16/2024 10:15	67703	WERN_T2	0	0	0	0	0	0	-0.07	0	1	1	0	900	900	0
9/16/2024 10:15	20401	ASHF_T2	9	9	0	0.36	0.4	0.04	0	0	0	0	0	0	0	0
9/16/2024 10:15	20403	ASHF_T2	7	10	3	0.3	0.5	0.2	0.25	0.24	0	0	0	0	0	0
9/16/2024 10:15	59101	WALK_T2	0	0	0	0	0	0	2.25	2.07	0	0	0	0	0	0
9/16/2024 10:16	67605	WARW_T1	15	15	0	0.44	0.49	0.05	0	0	0	0	0	0	0	0
9/16/2024 10:16	10801	CHHI_T1	2	3	1	0.15	0.15	0	-0.71	-0.53	1	1	0	900	900	0
9/16/2024 10:16	67603	WARW_T1	0	1	1	0	0.6	0.6	0.01	0.06	0	0	0	0	0	0
9/16/2024 10:16	59101	WALK_T2	0	0	0	0	0	0	2.25	2.07	0	0	0	0	0	0
9/16/2024 10:17	20403	ASHF_T2	7	10	3	0.3	0.5	0.2	0.25	0.24	0	0	0	0	0	0
9/16/2024 10:17	20401	ASHF_T2	9	9	0	0.36	0.4	0.04	0	0	0	0	0	0	0	0
9/16/2024 10:17	10805	CHHI_T2	1	1	0	7.9	7.8	-0.1	-0.99	-0.99	2	2	0	1800	1800	0
9/16/2024 10:17	67605	WARW_T1	15	15	0	0.44	0.49	0.05	-1.03	-1.03	0	0	0	0	0	0
9/16/2024 10:17	20402	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/16/2024 10:17	24902	WHHA_T1	2	2	0	0.15	0.1	-0.05	0.75	0.74	0	0	0	0	0	0
9/16/2024 10:17	67603	WARW_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/16/2024 10:18	10805	CHHI_T2	1	1	0	7.9	7.8	-0.1	-0.99	-0.99	2	2	0	1800	1800	0
9/16/2024 10:20	40901	JESH_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/16/2024 10:20	40101	HUNT_T2	0	1	1	0	0.3	0.3	-0.54	-0.54	0	0	0	0	0	0
9/16/2024 10:20	44505	HAMI_T2	0	0	0	0	0	0	0.67	0.7	0	0	0	0	0	0
9/16/2024 10:20	44502	HAMI_T2	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
9/16/2024 10:20	40902	JESH_T1	0	0	0	0	0	0	-0.2	-0.08	0	0	0	0	0	0
9/16/2024 10:21	67605	WARW_T1	15	15	0	0.44	0.49	0.05	-1.03	-1.03	0	0	0	0	0	0
9/16/2024 10:21	67603	WARW_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/16/2024 10:21	40901	JESH_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/16/2024 10:21	40902	JESH_T1	0	0	0	0	0	0	-0.2	-0.08	0	0	0	0	0	0
9/16/2024 10:22	40902	JESH_T1	0	0	0	0	0	0	-0.08	-0.24	0	0	0	0	0	0
9/16/2024 10:22	40901	JESH_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/16/2024 10:22	20601	GRWO_T2	13	0	-13	0.39	0	-0.39	0.27	0.3	1	1	0	1200	1200	0
9/16/2024 10:23	52001	LING_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
9/16/2024 10:23	40901	JESH_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/16/2024 10:23	52004	LING_T2	2	3	1	5.65	3.77	-1.88	0.99	1.08	0	0	0	0	0	0
9/16/2024 10:23	40902	JESH_T1	0	0	0	0	0	0	-0.08	-0.24	0	0	0	0	0	0
9/16/2024 10:23	43202	MVIL_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
9/16/2024 10:23	43201	MVIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/16/2024 10:24	56501	ROCK_T2	3	3	0	0.47	0.5	0.03	0	0.11	0	0	0	0	0	0
9/16/2024 10:24	40902	JESH_T1	0	0	0	0	0	0	-0.08	-0.24	0	0	0	0	0	0
9/16/2024 10:24	44502	HAMI_T2	1	1	0	2.1	2	-0.1	-0.57	-0.57	0	0	0	0	0	0
9/16/2024 10:24	44505	HAMI_T2	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
9/16/2024 10:24	40901	JESH_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/16/2024 10:25	43201	MVIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/16/2024 10:25	43202	MVIL_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
9/16/2024 10:25	56501	ROCK_T2	3	3	0	0.47	0.5	0.03	0	0.21	0	0	0	0	0	0
9/16/2024 10:26	13905	SEID_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
9/16/2024 10:26	44902	SCOT_T2	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
9/16/2024 10:26	25502	MADI_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
9/16/2024 10:26	43201	MVIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/16/2024 10:26	25503	MADI_T1	135	129	-6	0.46	0.39	-0.07	-0.93	-0.92	0	0	0	0	0	0
9/16/2024 10:26	43202	MVIL_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
9/16/2024 10:26	25501	MADI_T1	5	0	0	0.54	0.48	-0.06	0	0	0	0	0	0	0	0
9/16/2024 10:26	25402	LAHA_T2	1	2	1	0.4	0.35	-0.05	-0.35	-0.36	0	0	0	0	0	0
9/16/2024 10:27	65205	PRIN_T1	1	1	0	0	0.4	0.4	0	0	0	0	0	0	0	0
9/16/2024 10:27	66502	SMAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/16/2024 10:27	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/16/2024 10:27	56501	ROCK_T2	3	3	0	0.47	0.5	0.03	0	0.11	0	0	0	0	0	0
9/16/2024 10:28	42201	SHEN_T2	0	0	0	0	0	0	0.11	0.15	1	1	0	600	600	0
9/16/2024 10:31	45902	AUBU_T1	0	0	0	0	0	0	-0.43	-0.45	1	1	0	600	600	0
9/16/2024 10:31	67603	WARW_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
9/16/2024 10:31	67605	WARW_T1	14	16	2	0.43	0.48	0.05	-1.03	-1.01	0	0	0	0	0	0
9/16/2024 10:32	40201	BEGA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
9/16/2024 10:32	60101	COCA_T1	0	0	0	0	0	0	0.38	0.42	0	0	0	0	0	0
9/16/2024 10:32	11507	FREE_T2	0	2	2	0	0	0	0.77	0.84	0	0	0	0	0	0
9/16/2024 10:33	45501	DERR_T2	0	0	0	0	0	0	0.85	0.9	2	2	0	1800	1800	0
9/16/2024 10:33	51102	CARL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/16/2024 10:33	45502	DERR_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
9/16/2024 10:33	51101	CARL_T1	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
9/16/2024 10:33	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 10:34	40101	HUNT_T2	0	1	1	0	0.3	0.3	-0.54	-0.47	0	0	0	0	0	0
9/16/2024 10:34	60101	COCA_T1	0	0	0	0	0	0	0.38	0.42	0	0	0	0	0	0
9/16/2024 10:35	45501	DERR_T2	0	0	0	0	0	0	0.85	0.9	2	2	0	1800	1800	0
9/16/2024 10:35	62105	ELAN_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
9/16/2024 10:35	45502	DERR_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
9/16/2024 10:35	62101	ELAN_T1	1	1	0	2	2.2	0.2	0	0	0	0	0	0	0	0
9/16/2024 10:36	62101	ELAN_T1	1	1	0	2	2.2	0.2	0	0	0	0	0	0	0	0
9/16/2024 10:36	62105	ELAN_T1	0	0	0	0	0	0	0.78	0.8	0	0	0	0	0	0
9/16/2024 10:39	57205	ROSS_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
9/16/2024 10:39	57203	ROSS_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
9/16/2024 10:44	44601	SALE_T2	2	3	1	1.2	2	0.8	0	0	2	2	0	900	900	0
9/16/2024 10:45	14401	SSLA_T1	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
9/16/2024 10:45	14404	SSLA_T1	4	3	-1	0.58	0.47	-0.11	0.13	0.16	0	0	0	0	0	0
9/16/2024 10:45	14403	SSLA_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/16/2024 10:45	14402	SSLA_T1	7	4	-3	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
9/16/2024 10:45	55101	WERT_T1	0	0	0	0	0	0	-2.47	-2.43	6	6	0	4800	4800	0
9/16/2024 10:46	14402	SSLA_T1	7	4	-3	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
9/16/2024 10:46	14404	SSLA_T1	4	3	-1	0.58	0.47	-0.11	0	0	0	0	0	0	0	0
9/16/2024 10:46	14403	SSLA_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/16/2024 10:46	14401	SSLA_T1	2	2	0	0.55	0.45	-0.1	-0.34	-0.32	0	0	0	0	0	0
9/16/2024 10:47	44802	EDAN_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
9/16/2024 10:47	44601	SALE_T2	2	4	2	2.1	1.3	-0.8	0	2	2	2	0	900	900	0
9/16/2024 10:47	44801	EDAN_T2	70	69	-1	0.35	0.45	0.1	0	0	0	0	0	0	0	0
9/16/2024 10:48	44801	EDAN_T2	70	69	-1	0.35	0.45	0.1	-1.51	-1.52	0	0	0	0	0	0
9/16/2024 10:48	53601	DALM_T2	1	1	0	0.5	0.8	0.3	-0.28	-0.43	1	1	0	900	900	0
9/16/2024 10:50	44801	EDAN_T2	70	69	-1	0.35	0.45	0.1	0	0	0	0	0	0	0	0
9/16/2024 10:50	44802	EDAN_T2	0	0	0	0	0	0	-1.09	-1.06	0	0	0	0	0	0
9/16/2024 10:51	44802	EDAN_T2	0	0	0	0	0	0	-1.09	-1.06	0	0	0	0	0	0
9/16/2024 10:51	44801	EDAN_T2	70	69	-1	0.35	0.45	0.1	0	0	0	0	0	0	0	0
9/16/2024 10:52	44801	EDAN_T2	70	69	-1	0.35	0.45	0.1	0	0	0	0	0	0	0	0
9/16/2024 10:52	44802	EDAN_T2	0	0	0	0	0	0	-0.53	-0.41	0	0	0	0	0	0
9/16/2024 10:56	65802	RTWN_T2	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
9/16/2024 10:56	61902	REED_T1	0	0	0	0	0	0	1.14	1.14	0	0	0	0	0	0
9/16/2024 10:57	67605	WARW_T1	15	16	1	0.47	0.47	0	-1.03	-1.02	0	0	0	0	0	0
9/16/2024 10:57	52004	LING_T2	3	3	0	3.63	4.07	0.44	0.53	0.57	0	0	0	0	0	0
9/16/2024 11:02	62106	ELAN_T1	0	0	0	0	0	0	0.87	1.12	0	0	0	0	0	0
9/16/2024 11:02	62101	ELAN_T1	1	1	0	2.4	2.1	-0.3	0	0	0	0	0	0	0	0
9/16/2024 11:03	45802	HEGI_T2	0	8	8	0	0.2	0.2	0.9	1.06	0	0	0	0	0	0
9/16/2024 11:03	46004	BERW_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
9/16/2024 11:04	45902	AUBU_T1	0	2	2	0	0.55	0.55	-0.44	-0.45	1	1	0	600	600	0
9/16/2024 11:04	45802	HEGI_T2	0	8	8	0	0.2	0.2	0.9	1.06	0	0	0	0	0	0
9/16/2024 11:07	62101	ELAN_T1	1	1	0	2.4	2.1	-0.3	0	0	0	0	0	0	0	0
9/16/2024 11:07	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 11:07	58402	MORO_T1	0	0	0	0	0	0	0	0.01	2	2	0	1500	1500	0
9/16/2024 11:08	50503	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/16/2024 11:08	50506	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/16/2024 11:08	50501	MECH_T1	4	4	0	1	1	0	-0.65	-0.63	0	0	0	0	0	0
9/16/2024 11:08	50502	MECH_T1	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
9/16/2024 11:09	60502	NMAN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 11:11	42201	SHEN_T2	0	1	1	0	0.5	0.5	0.16	0.16	1	1	0	600	600	0
9/16/2024 11:11	13503	MCMI_T2	12	9	-3	0.58	0.59	0.01	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 11:11	65207	PRIN_T4	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/16/2024 11:11	65201	PRIN_T4	0	1	1	0	0	0	0	0	1	1	0	600	600	0
9/16/2024 11:12	67201	TEHI_T1	0	0	0	0	0	0	0.77	0.54	1	2	1	900	1500	600
9/16/2024 11:12	67203	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 11:13	16101	BING_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
9/16/2024 11:15	45602	WOOL_T1	2	3	1	0.25	0.27	0.02	0.77	0.75	0	0	0	0	0	0
9/16/2024 11:19	16102	BING_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/16/2024 11:19	12002	HATF_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/16/2024 11:19	16101	BING_T2	0	2	2	0	0.7	0.7	0.44	0.44	0	0	0	0	0	0
9/16/2024 11:19	12001	HATF_T1	0	0	0	0	0	0	-0.36	-0.15	2	2	0	1800	1800	0
9/16/2024 11:19	60803	BUCK_T1	11	15	4	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
9/16/2024 11:19	60801	BUCK_T1	8	11	3	0.15	0.13	-0.02	-0.4	-0.4	1	1	0	600	600	0
9/16/2024 11:20	12001	HATF_T1	0	0	0	0	0	0	-0.36	-0.15	2	2	0	1800	1800	0
9/16/2024 11:20	12002	HATF_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/16/2024 11:22	20603	GRWO_T2	0	0	0	0	0	0	-0.54	-0.51	1	1	0	900	900	0
9/16/2024 11:23	55001	NEWP_T1	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
9/16/2024 11:23	55002	NEWP_T1	8	8	0	0.9	1.14	0.24	-0.16	-0.16	0	0	0	0	0	0
9/16/2024 11:26	13701	SCHN_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
9/16/2024 11:26	13704	SCHN_T2	1	1	0	0.4	0.5	0.1	-0.15	0.03	0	0	0	0	0	0
9/16/2024 11:27	42802	SELI_T1	0	1	1	0	0.2	0.2	-0.89	-0.87	1	1	0	900	900	0
9/16/2024 11:27	42601	TUSC_T1	0	0	0	0	0	0	-0.15	-0.24	3	3	0	2400	2400	0
9/16/2024 11:28	42802	SELI_T1	0	1	1	0	0.2	0.2	-0.89	-0.87	1	1	0	900	900	0
9/16/2024 11:28	67503	WEWI_T2	1	1	0	8.9	8.8	-0.1	-0.14	-0.09	0	0	0	0	0	0
9/16/2024 11:28	67502	WEWI_T2	0	1	1	0	0.2	0.2	-0.38	-0.43	0	0	0	0	0	0
9/16/2024 11:29	43802	SWIL_T1	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
9/16/2024 11:29	43801	SWIL_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
9/16/2024 11:31	20403	ASHF_T2	5	9	4	0.72	0.6	-0.12	0.25	0.45	0	0	0	0	0	0
9/16/2024 11:31	20401	ASHF_T2	5	3	-2	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
9/16/2024 11:31	42802	SELI_T1	0	1	1	0	0.2	0.2	-1.77	-1.73	2	2	0	1800	1800	0
9/16/2024 11:31	42801	SELI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 11:34	40101	HUNT_T2	1	3	2	0.1	0.3	0.2	-0.48	-0.44	0	0	0	0	0	0
9/16/2024 11:35	47102	MARL_T2	4	0	-4	0.28	0	-0.28	0	0	0	0	0	0	0	0
9/16/2024 11:35	47103	MARL_T2	5	5	0	0.48	0.32	-0.16	-0.43	-0.39	0	0	0	0	0	0
9/16/2024 11:36	12701	MACU_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
9/16/2024 11:38	64903	MILL_T2	0	0	0	0	0	0	0.54	0.62	0	0	0	0	0	0
9/16/2024 11:39	56501	ROCK_T2	3	5	2	0.33	0.56	0.23	0.2	0.16	0	0	0	0	0	0
9/16/2024 11:39	56504	ROCK_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/16/2024 11:40	57403	SPAN_T1	3	21	18	0.37	0.28	-0.09	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/16/2024 11:40	66505	SMAN_T2	0	473	473	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 11:40	66502	SMAN_T2	1	14	13	0.1	0.41	0.31	0.28	0.45	0	0	0	0	0	0
9/16/2024 11:40	57401	SPAN_T1	4	15	11	0.4	0.49	0.09	-1.66	-1.65	2	2	0	1200	1200	0
9/16/2024 11:40	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
9/16/2024 11:41	67002	STHI_T2	12	17	5	0.2	0.24	0.04	0.92	0.92	0	0	0	0	0	0
9/16/2024 11:41	67001	STHI_T2	9	9	0	0.27	0.28	0.01	0.51	0.49	0	0	0	0	0	0
9/16/2024 11:42	56504	ROCK_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/16/2024 11:42	56501	ROCK_T2	3	5	2	0.33	0.56	0.23	0.2	0.16	0	0	0	0	0	0
9/16/2024 11:42	57403	SPAN_T1	3	21	18	0.37	0.28	-0.09	0.11	0.15	0	0	0	0	0	0
9/16/2024 11:42	57401	SPAN_T1	4	15	11	0.4	0.49	0.09	-1.66	-1.65	2	2	0	1200	1200	0
9/16/2024 11:43	57403	SPAN_T1	3	21	18	0.37	0.28	-0.09	0	0	0	0	0	0	0	0
9/16/2024 11:43	57401	SPAN_T1	4	15	11	0.4	0.49	0.09	-0.83	-0.82	1	1	0	600	600	0
9/16/2024 11:43	56504	ROCK_T2	0	1	1	0	0.6	0.6	0	0.04	0	0	0	0	0	0
9/16/2024 11:43	56501	ROCK_T2	3	5	2	0.33	0.56	0.23	0	0	0	0	0	0	0	0
9/16/2024 11:44	57403	SPAN_T1	3	21	18	0.37	0.28	-0.09	0	0	0	0	0	0	0	0
9/16/2024 11:44	56501	ROCK_T2	3	5	2	0.33	0.56	0.23	0.2	0.16	0	0	0	0	0	0
9/16/2024 11:44	67002	STHI_T2	12	17	5	0.2	0.24	0.04	0.92	0.92	0	0	0	0	0	0
9/16/2024 11:44	51302	WIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/16/2024 11:44	67001	STHI_T2	9	9	0	0.27	0.28	0.01	0	0	0	0	0	0	0	0
9/16/2024 11:44	57401	SPAN_T1	4	15	11	0.4	0.49	0.09	-0.83	-0.82	1	1	0	600	600	0
9/16/2024 11:44	51304	WIND_T2	1	1	0	0.9	1.5	0.6	0.08	0.16	0	0	0	0	0	0
9/16/2024 11:44	56504	ROCK_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/16/2024 11:45	67002	STHI_T2	11	18	7	0.23	0.26	0.03	4.58	4.58	0	0	0	0	0	0
9/16/2024 11:45	67001	STHI_T2	6	10	4	0.25	0.32	0.07	0.17	0.16	0	0	0	0	0	0
9/16/2024 11:45	10805	CHHI_T2	1	1	0	8.4	8.6	0.2	-0.95	-0.82	2	2	0	1800	1800	0
9/16/2024 11:46	67002	STHI_T2	11	18	7	0.23	0.26	0.03	1.83	1.83	0	0	0	0	0	0
9/16/2024 11:46	67001	STHI_T2	6	10	4	0.25	0.32	0.07	0	0	0	0	0	0	0	0
9/16/2024 11:47	67503	WEWI_T2	1	1	0	8.7	9.1	0.4	0	0	0	0	0	0	0	0
9/16/2024 11:47	67002	STHI_T2	11	18	7	0.23	0.26	0.03	0.92	0.92	0	0	0	0	0	0
9/16/2024 11:47	67001	STHI_T2	6	10	4	0.25	0.32	0.07	0	0	0	0	0	0	0	0
9/16/2024 11:47	67502	WEWI_T2	1	3	2	0.2	0.27	0.07	-0.22	-0.23	0	0	0	0	0	0
9/16/2024 11:48	66504	SMAN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
9/16/2024 11:48	16101	BING_T2	1	2	1	0.7	0.75	0.05	0	0	0	0	0	0	0	0
9/16/2024 11:48	66505	SMAN_T2	471	1	-470	3.18	0.3	-2.88	0	0	0	0	0	0	0	0
9/16/2024 11:48	66502	SMAN_T2	2	14	12	0.25	0.41	0.16	0	0	0	0	0	0	0	0
9/16/2024 11:48	16102	BING_T2	2	6	4	0.45	0.77	0.32	0	0	0	0	0	0	0	0
9/16/2024 11:48	16103	BING_T2	0	1	1	0	0.3	0.3	-0.67	-0.71	2	2	0	1500	1500	0
9/16/2024 11:48	44801	EDAN_T2	157	139	-18	0.6	0.5	-0.1	-1.47	-1.41	0	0	0	0	0	0
9/16/2024 11:48	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
9/16/2024 11:50	44801	EDAN_T2	157	139	-18	0.6	0.5	-0.1	-1.47	-1.41	0	0	0	0	0	0
9/16/2024 11:50	66504	SMAN_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
9/16/2024 11:50	66505	SMAN_T2	471	1	-470	3.18	0.3	-2.88	0	0	0	0	0	0	0	0
9/16/2024 11:50	66502	SMAN_T2	2	14	12	0.25	0.41	0.16	0	0	0	0	0	0	0	0
9/16/2024 11:50	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
9/16/2024 11:51	62607	ENGL_T1	0	0	0	0	0	0	-0.67	-0.7	0	0	0	0	0	0
9/16/2024 11:52	42902	MIDD_T2	1	1	0	0.1	0.4	0.3	-0.5	-0.8	2	2	0	1200	1200	0
9/16/2024 11:52	42903	MIDD_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
9/16/2024 11:53	58402	MORO_T1	0	0	0	0	0	0	-0.03	-0.06	2	2	0	1500	1500	0
9/16/2024 11:53	45802	HEGI_T2	2	7	5	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/16/2024 11:53	58401	MORO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/16/2024 11:56	65802	RTWN_T2	0	1	1	0	0.1	0.1	-0.1	-0.09	0	0	0	0	0	0
9/16/2024 11:56	65803	RTWN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/16/2024 11:58	42802	SELI_T1	1	0	-1	0.2	0	-0.2	-0.88	-0.84	1	1	0	900	900	0
9/16/2024 11:59	65207	PRIN_T4	1	1	0	0.6	0.8	0.2	0	0	2	2	0	1800	1800	0
9/16/2024 11:59	65206	PRIN_T4	1	2	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/16/2024 12:01	45902	AUBU_T1	1	3	2	0.6	0.77	0.17	-0.46	-0.5	1	1	0	600	600	0
9/16/2024 12:03	10805	CHHI_T2	1	2	1	8.6	8.6	0	-0.82	-0.74	2	2	0	1800	1800	0
9/16/2024 12:04	53903	HALI_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
9/16/2024 12:04	53901	HALI_T2	2	4	2	0.15	0.5	0.35	-1.16	-1.15	0	0	0	0	0	0
9/16/2024 12:04	53902	HALI_T2	3	3	0	1.47	1.8	0.33	0	0	0	0	0	0	0	0
9/16/2024 12:06	60101	COCA_T1	0	0	0	0	0	0	0.45	0.55	0	0	0	0	0	0
9/16/2024 12:06	52004	LING_T2	3	3	0	3.77	4.03	0.26	0	0	0	0	0	0	0	0
9/16/2024 12:06	52002	LING_T2	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
9/16/2024 12:07	25402	LAHA_T2	2	2	0	0.25	0.35	0.1	-0.19	-0.22	0	0	0	0	0	0
9/16/2024 12:07	53902	HALI_T2	3	3	0	1.47	1.8	0.33	0	0	0	0	0	0	0	0
9/16/2024 12:07	60101	COCA_T1	0	0	0	0	0	0	0.55	0.47	0	0	0	0	0	0
9/16/2024 12:07	53903	HALI_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
9/16/2024 12:07	53901	HALI_T2	2	4	2	0.15	0.5	0.35	-2.29	-2.27	0	0	0	0	0	0
9/16/2024 12:08	28403	HART_T2	0	0	0	0	0	0	-0.6	-0.62	1	1	0	900	900	0
9/16/2024 12:08	63401	HONY_T1	0	0	0	0	0	0	0.81	0.83	0	0	0	0	0	0
9/16/2024 12:08	53901	HALI_T2	2	4	2	0.15	0.5	0.35	-1.15	-1.14	0	0	0	0	0	0
9/16/2024 12:08	47001	HUGH_T2	4	5	1	6.75	5.7	-1.05	-1.79	-1.77	0	0	0	0	0	0
9/16/2024 12:08	42902	MIDD_T2	0	1	1	0	0.4	0.4	-0.8	-0.83	2	2	0	1200	1200	0
9/16/2024 12:08	42903	MIDD_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
9/16/2024 12:08	60101	COCA_T1	0	0	0	0	0	0	0.55	0.47	0	0	0	0	0	0
9/16/2024 12:08	53902	HALI_T2	3	3	0	1.47	1.8	0.33	0	0	0	0	0	0	0	0
9/16/2024 12:08	53903	HALI_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
9/16/2024 12:09	42902	MIDD_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/16/2024 12:09	42903	MIDD_T2	0	2	2	0	0.5	0.5	0.26	0.21	1	1	0	1200	1200	0
9/16/2024 12:09	52002	LING_T2	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
9/16/2024 12:09	52004	LING_T2	3	3	0	3.77	4.03	0.26	0	0	0	0	0	0	0	0
9/16/2024 12:10	64801	MONE_T2	1	7	6	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/16/2024 12:10	42902	MIDD_T2	0	1	1	0	0.4	0.4	-0.8	-0.83	2	2	0	1200	1200	0
9/16/2024 12:10	42903	MIDD_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
9/16/2024 12:10	64802	MONE_T2	70	61	-9	0.17	0.24	0.07	0.49	0.5	0	0	0	0	0	0
9/16/2024 12:11	40601	PIGR_T1	4	9	5	0.2	0.2	0	0	0	0	0	0	0	0	0
9/16/2024 12:11	40602	PIGR_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
9/16/2024 12:12	42903	MIDD_T2	0	2	2	0	0.5	0.5	0.26	0.21	1	1	0	1200	1200	0
9/16/2024 12:12	42902	MIDD_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/16/2024 12:13	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
9/16/2024 12:13	15701	TANN_T1	2	2	0	2.85	2.75	-0.1	0	0	0	0	0	0	0	0
9/16/2024 12:13	15704	TANN_T1	5	7	2	0.6	0.64	0.04	-0.53	-0.51	0	0	0	0	0	0
9/16/2024 12:13	67602	WARW_T2	0	0	0	0	0	0	2.97	2.87	2	2	0	600	600	0
9/16/2024 12:13	53902	HALI_T2	3	3	0	1.47	1.8	0.33	-0.14	-0.14	0	0	0	0	0	0
9/16/2024 12:13	47403	PENS_T1	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
9/16/2024 12:13	15702	TANN_T2	4	4	0	0.25	0.45	0.2	-0.23	-0.21	0	0	0	0	0	0
9/16/2024 12:13	53901	HALI_T2	2	4	2	0.15	0.5	0.35	0	0	0	0	0	0	0	0
9/16/2024 12:13	53903	HALI_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
9/16/2024 12:13	47401	PENS_T1	3	2	-1	1.5	0.8	-0.7	0.94	0.99	0	0	0	0	0	0
9/16/2024 12:14	43402	BENT_T1	1	0	-1	0.1	0	-0.1	-0.28	-0.26	1	1	0	600	600	0
9/16/2024 12:14	40101	HUNT_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/16/2024 12:15	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
9/16/2024 12:15	15702	TANN_T2	3	5	2	0.37	0.4	0.03	-0.23	-0.21	0	0	0	0	0	0
9/16/2024 12:16	45902	AUBU_T1	3	3	0	0.77	0.63	-0.14	0	0	0	0	0	0	0	0
9/16/2024 12:16	47403	PENS_T1	2	1	-1	0.5	1.3	0.8	0	0	0	0	0	0	0	0
9/16/2024 12:16	47401	PENS_T1	2	3	1	0.6	1.17	0.57	0.94	0.99	0	0	0	0	0	0
9/16/2024 12:16	45901	AUBU_T1	0	0	0	0	0	0	1.67	1.67	0	0	0	0	0	0
9/16/2024 12:17	24702	FLND_T2	3	3	0	1.23	1.13	-0.1	0	0	1	1	0	1200	1200	0
9/16/2024 12:17	47401	PENS_T1	2	3	1	0.6	1.17	0.57	0.94	0.99	0	0	0	0	0	0
9/16/2024 12:17	47403	PENS_T1	2	1	-1	0.5	1.3	0.8	0	0	0	0	0	0	0	0
9/16/2024 12:18	43402	BENT_T1	0	2	2	0	0.2	0.2	-0.28	-0.26	1	1	0	600	600	0
9/16/2024 12:18	40201	BEGA_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
9/16/2024 12:19	45902	AUBU_T1	3	3	0	0.77	0.63	-0.14	-0.5	-0.5	1	1	0	600	600	0
9/16/2024 12:19	40701	FFLD_T1	25	1	-24	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
9/16/2024 12:19	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 12:19	44502	HAMI_T2	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
9/16/2024 12:19	44505	HAMI_T2	0	1	1	0	0.3	0.3	0.7	0.64	0	0	0	0	0	0
9/16/2024 12:21	63501	HEID_TBK1-2	47	47	0	0.85	0.76	-0.09	0.47	0.45	1	1	0	900	900	0
9/16/2024 12:21	44505	HAMI_T2	0	1	1	0	0.3	0.3	0.7	0.64	0	0	0	0	0	0
9/16/2024 12:21	44502	HAMI_T2	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
9/16/2024 12:24	64503	LAVI_T1	0	0	0	0	0	0	-3.09	-3.04	4	4	0	4200	4200	0
9/16/2024 12:25	58401	MORO_T1	2	1	-1	0.1	0.2	0.1	-0.77	-0.77	1	1	0	600	600	0
9/16/2024 12:25	22905	HARW_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
9/16/2024 12:25	22903	HARW_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 12:27	58401	MORO_T1	2	1	-1	0.1	0.2	0.1	-0.77	-0.77	1	1	0	600	600	0
9/16/2024 12:27	51302	WIND_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/16/2024 12:27	51304	WIND_T2	1	2	1	1.3	1.15	-0.15	0	0	0	0	0	0	0	0
9/16/2024 12:27	51306	WIND_T2	1	3	2	0.1	0.2	0.1	0.35	0.35	0	0	0	0	0	0
9/16/2024 12:27	61502	EPET_T1	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
9/16/2024 12:27	55105	WERT_T1	0	0	0	0	0	0	-0.23	-0.24	1	1	0	900	900	0
9/16/2024 12:28	45602	WOOL_T1	5	7	2	0.42	0.4	-0.02	0	0	0	0	0	0	0	0
9/16/2024 12:28	45601	WOOL_T1	0	1	1	0	0.2	0.2	-0.18	-0.11	1	1	0	1200	1200	0
9/16/2024 12:29	51306	WIND_T2	1	3	2	0.1	0.2	0.1	0.35	0.35	0	0	0	0	0	0
9/16/2024 12:29	51302	WIND_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/16/2024 12:29	51304	WIND_T2	1	2	1	1.3	1.15	-0.15	0.14	0.19	0	0	0	0	0	0
9/16/2024 12:32	46503	LOHA_T1	1	0	-1	0.1	0	-0.1	-0.58	-0.58	0	0	0	0	0	0
9/16/2024 12:32	46501	LOHA_T1	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
9/16/2024 12:32	46506	LOHA_T1	3	4	1	4.67	3.48	-1.19	0	0	0	0	0	0	0	0
9/16/2024 12:36	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 12:36	40901	JESH_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/16/2024 12:37	63302	GREE_T1	0	0	0	0	0	0	0.74	0.87	0	0	0	0	0	0
9/16/2024 12:37	63305	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/16/2024 12:38	42902	MIDD_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/16/2024 12:38	42903	MIDD_T2	2	0	-2	0.35	0	-0.35	0.78	0.91	1	1	0	1200	1200	0
9/16/2024 12:39	64201	KINZ_T1	0	0	0	0	0	0	-0.41	-0.38	4	4	0	2100	2100	0
9/16/2024 12:39	64204	KINZ_T1	3	3	0	0.5	0.53	0.03	0	0	0	0	0	0	0	0
9/16/2024 12:43	47401	PENS_T1	2	3	1	0.8	1.17	0.37	-0.23	-0.19	0	0	0	0	0	0
9/16/2024 12:43	47403	PENS_T1	1	4	3	1	0.7	-0.3	0	0	0	0	0	0	0	0
9/16/2024 12:44	47401	PENS_T1	2	3	1	0.8	1.17	0.37	-0.23	-0.19	0	0	0	0	0	0
9/16/2024 12:44	51306	WIND_T2	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/16/2024 12:44	51304	WIND_T2	2	2	0	1.15	0.75	-0.4	0	0	0	0	0	0	0	0
9/16/2024 12:44	47403	PENS_T1	1	4	3	1	0.7	-0.3	0	0	0	0	0	0	0	0
9/16/2024 12:44	51302	WIND_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/16/2024 12:45	56504	ROCK_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/16/2024 12:45	56501	ROCK_T2	5	5	0	0.44	0.34	-0.1	0.18	0.2	0	0	0	0	0	0
9/16/2024 12:45	56503	ROCK_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/16/2024 12:48	47403	PENS_T1	1	4	3	1.3	0.68	-0.62	0	0	0	0	0	0	0	0
9/16/2024 12:48	47401	PENS_T1	3	3	0	1.17	0.7	-0.47	-0.23	-0.19	0	0	0	0	0	0
9/16/2024 12:48	67702	WERN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/16/2024 12:48	67703	WERN_T2	1	1	0	0.3	0.6	0.3	0.02	0.04	1	1	0	900	900	0
9/16/2024 12:49	62605	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 12:49	24102	EHAZ_T1	0	0	0	0	0	0	0.53	0.61	0	0	0	0	0	0
9/16/2024 12:49	24105	EHAZ_T1	4	4	0	6.5	6.55	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/16/2024 12:49	24101	EHAZ_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
9/16/2024 12:49	62607	ENGL_T1	1	0	-1	0.1	0	-0.1	-0.65	-0.61	0	0	0	0	0	0
9/16/2024 12:49	24104	EHAZ_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/16/2024 12:52	53501	EVIL_T2	2	3	1	0.2	0.53	0.33	-0.01	-0.01	2	2	0	1500	1500	0
9/16/2024 12:54	53501	EVIL_T2	2	3	1	0.2	0.53	0.33	-0.01	-0.01	2	2	0	1500	1500	0
9/16/2024 12:54	61801	EELI_T2	1	0	-1	0.1	0	-0.1	-0.53	-0.54	1	1	0	600	600	0
9/16/2024 12:54	64203	KINZ_T1	0	1	1	0	0	0	1.09	1.29	2	2	0	900	900	0
9/16/2024 12:54	64204	KINZ_T1	3	1	-2	0.53	0.6	0.07	0	0	0	0	0	0	0	0
9/16/2024 12:55	42601	TUSC_T1	1	1	0	0.4	0	-0.4	-0.33	-0.11	3	3	0	2400	2400	0
9/16/2024 12:56	40101	HUNT_T2	1	1	0	0.1	0.3	0.2	-0.38	-0.4	0	0	0	0	0	0
9/16/2024 12:57	43301	WATS_T2	4	1	-3	0.43	0.8	0.37	0	0	0	0	0	0	0	0
9/16/2024 12:57	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 12:57	43302	WATS_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
9/16/2024 12:59	21705	SUBU_T1	1	1	0	6.3	5.9	-0.4	0	0	0	0	0	0	0	0
9/16/2024 12:59	21704	SUBU_T1	0	0	0	0	0	0	-1.96	-2.01	2	2	0	2400	2400	0
9/16/2024 12:59	21701	SUBU_T1	1	1	0	6.4	6	-0.4	0	0	0	0	0	0	0	0
9/16/2024 13:00	43301	WATS_T2	1	1	0	0.8	0.5	-0.3	-0.4	-0.4	1	1	0	900	900	0
9/16/2024 13:00	66501	SMAN_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/16/2024 13:00	66504	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/16/2024 13:00	66502	SMAN_T2	3	4	1	0.27	0.23	-0.04	0.48	0.46	0	0	0	0	0	0
9/16/2024 13:00	42701	AUGU_T1	1	2	1	0.6	0.3	-0.3	0	0	2	1	-1	1800	600	-1200
9/16/2024 13:00	44601	SALE_T2	2	2	0	1.6	1.55	-0.05	0	0	2	2	0	900	900	0
9/16/2024 13:01	41602	CLEV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/16/2024 13:02	43304	WATS_T2	0	0	0	0	0	0	-0.25	-0.17	0	0	0	0	0	0
9/16/2024 13:02	43301	WATS_T2	1	1	0	0.8	0.5	-0.3	-0.4	-0.4	1	1	0	900	900	0
9/16/2024 13:02	14203	EALL_T1	0	1	1	0	0.4	0.4	0.12	0.14	1	1	0	1200	1200	0
9/16/2024 13:03	42701	AUGU_T1	1	2	1	0.6	0.3	-0.3	0	0	2	1	-1	1800	600	-1200
9/16/2024 13:03	46001	BERW_T1	0	0	0	0	0	0	0.63	0.7	0	0	0	0	0	0
9/16/2024 13:04	41602	CLEV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/16/2024 13:05	47201	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 13:05	53601	DALM_T2	1	1	0	0.8	0.6	-0.2	-0.57	-0.57	1	1	0	900	900	0
9/16/2024 13:05	47203	FAXO_T2	0	0	0	0	0	0	-1.25	-1.29	1	1	0	1200	1200	0
9/16/2024 13:07	20601	GRWO_T2	0	1	1	0	0	0	0.36	0.41	1	1	0	1200	1200	0
9/16/2024 13:09	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 13:09	44701	MUNC_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/16/2024 13:11	44701	MUNC_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/16/2024 13:11	44703	MUNC_T2	0	0	0	0	0	0	1.16	1.09	0	0	0	0	0	0
9/16/2024 13:12	48302	ORWI_T2	2	2	0	0.8	0.75	-0.05	0.19	0.2	0	0	0	0	0	0
9/16/2024 13:13	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 13:15	67502	WEWI_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/16/2024 13:15	67503	WEWI_T2	1	1	0	8.7	8.8	0.1	0	-0.14	0	0	0	0	0	0
9/16/2024 13:16	44301	BEAV_T2	2	8	6	0.25	0.4	0.15	1.75	1.96	1	1	0	600	600	0
9/16/2024 13:17	44301	BEAV_T2	2	8	6	0.25	0.4	0.15	1.75	1.96	1	1	0	600	600	0
9/16/2024 13:18	43301	WATS_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/16/2024 13:18	43304	WATS_T2	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
9/16/2024 13:19	44301	BEAV_T2	2	8	6	0.25	0.4	0.15	5.26	5.89	3	3	0	1800	1800	0
9/16/2024 13:20	64203	KINZ_T1	1	1	0	0.1	0	-0.1	1.29	1.4	2	2	0	900	900	0
9/16/2024 13:20	47001	HUGH_T2	3	3	0	8.93	8.73	-0.2	0	0	0	0	0	0	0	0
9/16/2024 13:20	64204	KINZ_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/16/2024 13:20	44203	POIN_T2	0	0	0	0	0	0	0.39	0.27	2	2	0	2100	2100	0
9/16/2024 13:20	47002	HUGH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 13:21	53601	DALM_T2	1	1	0	0.6	0.3	-0.3	-0.43	-0.41	1	1	0	900	900	0
9/16/2024 13:21	23202	HIRU_T2	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
9/16/2024 13:21	23203	HIRU_T2	1	2	1	0.2	0.2	0	0.35	0.35	0	0	0	0	0	0
9/16/2024 13:21	23201	HIRU_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
9/16/2024 13:21	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 13:21	51304	WIND_T2	2	1	-1	0.55	1.3	0.75	0	0	0	0	0	0	0	0
9/16/2024 13:22	60101	COCA_T1	1	0	-1	0.2	0	-0.2	1.07	1.08	0	0	0	0	0	0
9/16/2024 13:22	63501	HEID_TBK1-2	47	47	0	0.94	0.71	-0.23	0.58	0.53	1	1	0	900	900	0
9/16/2024 13:23	23202	HIRU_T2	2	2	0	0.2	0.35	0.15	0.11	0.12	0	0	0	0	0	0
9/16/2024 13:23	23203	HIRU_T2	1	2	1	0.2	0.2	0	0.17	0.17	0	0	0	0	0	0
9/16/2024 13:23	60101	COCA_T1	1	0	-1	0.2	0	-0.2	0.54	0.54	0	0	0	0	0	0
9/16/2024 13:23	59301	MCAL_T1	0	1	1	0	0.2	0.2	-1.33	-1.37	1	1	0	600	600	0
9/16/2024 13:23	23201	HIRU_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
9/16/2024 13:24	44203	POIN_T2	0	0	0	0	0	0	0.27	0.3	2	2	0	2100	2100	0
9/16/2024 13:25	41001	LAUR_T2	2	2	0	0.85	0.9	0.05	0	0	0	0	0	0	0	0
9/16/2024 13:25	41002	LAUR_T2	1	1	0	1.5	1.9	0.4	0.11	0.14	0	0	0	0	0	0
9/16/2024 13:26	67602	WARW_T2	0	0	0	0	0	0	1.46	1.46	1	1	0	300	300	0
9/16/2024 13:29	57403	SPAN_T1	2	4	2	0.15	0.33	0.18	0	0	0	0	0	0	0	0
9/16/2024 13:29	57401	SPAN_T1	4	4	0	0.33	0.35	0.02	-0.49	-0.48	1	1	0	600	600	0
9/16/2024 13:30	67602	WARW_T2	0	0	0	0	0	0	1.46	1.46	1	1	0	300	300	0
9/16/2024 13:31	67502	WEWI_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
9/16/2024 13:31	67503	WEWI_T2	1	1	0	8.8	8.5	-0.3	-0.14	-0.05	0	0	0	0	0	0
9/16/2024 13:31	67602	WARW_T2	0	0	0	0	0	0	1.46	1.46	1	1	0	300	300	0
9/16/2024 13:32	10705	CATA_T2	1	0	-1	0.6	0	-0.6	0.37	0.39	0	0	0	0	0	0
9/16/2024 13:34	23401	HONE_T2	1	1	0	0.5	0.5	0	0.33	0.3	0	0	0	0	0	0
9/16/2024 13:36	44203	POIN_T2	0	0	0	0	0	0	0.27	0.3	2	2	0	2100	2100	0
9/16/2024 13:36	13502	MCMI_T1	2	1	-1	0.55	1	0.45	0	0	0	0	0	0	0	0
9/16/2024 13:39	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 13:40	64902	MILL_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
9/16/2024 13:40	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 13:42	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 13:42	42802	SELI_T1	0	0	0	0	0	0	-0.72	-0.7	1	1	0	900	900	0
9/16/2024 13:43	42802	SELI_T1	0	0	0	0	0	0	-1.43	-1.4	2	2	0	1800	1800	0
9/16/2024 13:43	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 13:43	66901	SHIL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/16/2024 13:43	57403	SPAN_T1	3	4	1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
9/16/2024 13:43	57401	SPAN_T1	4	4	0	0.3	0.35	0.05	-0.48	-0.44	1	1	0	600	600	0
9/16/2024 13:43	66903	SHIL_T2	1	1	0	1.1	1	-0.1	-0.7	-0.72	0	0	0	0	0	0
9/16/2024 13:44	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 13:44	57401	SPAN_T1	4	4	0	0.3	0.35	0.05	-0.48	-0.44	1	1	0	600	600	0
9/16/2024 13:44	57403	SPAN_T1	3	4	1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
9/16/2024 13:45	57403	SPAN_T1	4	4	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/16/2024 13:45	47401	PENS_T1	3	2	-1	1.1	0.35	-0.75	-0.14	-0.12	0	0	0	0	0	0
9/16/2024 13:45	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/16/2024 13:45	43301	WATS_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/16/2024 13:45	57401	SPAN_T1	4	4	0	0.35	0.3	-0.05	-0.48	-0.44	1	1	0	600	600	0
9/16/2024 13:45	47403	PENS_T1	3	2	-1	0.43	0.5	0.07	0	0	0	0	0	0	0	0
9/16/2024 13:45	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 13:46	46206	DANV_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
9/16/2024 13:46	46203	DANV_T2	4	5	1	2.35	1.94	-0.41	-0.43	-0.49	0	0	0	0	0	0
9/16/2024 13:47	43301	WATS_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/16/2024 13:47	43304	WATS_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
9/16/2024 13:50	40101	HUNT_T2	0	1	1	0	0.1	0.1	-0.34	-0.35	0	0	0	0	0	0
9/16/2024 13:50	20603	GRWO_T2	1	4	3	0.2	0.28	0.08	-0.5	-0.47	1	1	0	900	900	0
9/16/2024 13:52	44801	EDAN_T2	77	120	43	0.34	0.49	0.15	-1.37	-1.4	0	0	0	0	0	0
9/16/2024 13:52	44201	POIN_T1	0	0	0	0	0	0	0	0	4	4	0	4200	4200	0
9/16/2024 13:53	44201	POIN_T1	0	0	0	0	0	0	0	0	6	6	0	6300	6300	0
9/16/2024 13:55	53501	EVIL_T2	1	1	0	0.2	0.1	-0.1	-0.01	-0.01	2	2	0	1500	1500	0
9/16/2024 13:58	57403	SPAN_T1	4	4	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
9/16/2024 13:58	57401	SPAN_T1	4	4	0	0.35	0.3	-0.05	-0.44	-0.43	1	1	0	600	600	0
9/16/2024 14:00	41903	REED_T1	0	0	0	0	0	0	0.69	0.7	2	2	0	2400	2400	0
9/16/2024 14:00	41902	REED_T1	1	0	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/16/2024 14:00	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 14:01	11202	ELHE_T2	0	0	0	0	0	0	0.19	0.18	1	1	0	1200	1200	0
9/16/2024 14:02	67503	WEWI_T2	1	2	1	8.5	4.6	-3.9	-0.05	-0.05	0	0	0	0	0	0
9/16/2024 14:02	67502	WEWI_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
9/16/2024 14:03	44801	EDAN_T2	116	110	-6	0.47	0.48	0.01	-1.37	-1.4	0	0	0	0	0	0
9/16/2024 14:05	44301	BEAV_T2	2	5	3	0.25	0.34	0.09	2.01	1.53	1	1	0	600	600	0
9/16/2024 14:10	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 14:10	41902	REED_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/16/2024 14:13	10801	CHHI_T1	3	4	1	0.5	0.63	0.13	-0.49	-0.51	1	1	0	900	900	0
9/16/2024 14:14	57403	SPAN_T1	4	1	-3	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
9/16/2024 14:14	57401	SPAN_T1	4	2	-2	0.3	0.2	-0.1	-0.43	-0.45	1	1	0	600	600	0
9/16/2024 14:14	65601	QVIL_T2	0	0	0	0	0	0	-0.84	-0.87	1	1	0	900	900	0
9/16/2024 14:18	40802	EXCH_T2	1	0	-1	0.8	0	-0.8	0.28	0.18	0	0	0	0	0	0
9/16/2024 14:18	53601	DALM_T2	1	1	0	0.5	0.6	0.1	-0.44	-0.42	1	1	0	900	900	0
9/16/2024 14:19	26704	HEML_T2	0	0	0	0	0	0	-0.47	-0.49	1	1	0	1200	1200	0
9/16/2024 14:29	64101	REFR_T1	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 14:34	40802	EXCH_T2	0	1	1	0	0.3	0.3	0.18	0.12	0	0	0	0	0	0
9/16/2024 14:39	64902	MILL_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
9/16/2024 14:39	40101	HUNT_T2	0	0	0	0	0	0	-0.29	-0.34	0	0	0	0	0	0
9/16/2024 14:41	44301	BEAV_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
9/16/2024 14:41	44202	POIN_T2	1	1	0	0.8	0.1	-0.7	-1.77	-1.86	1	1	0	1200	1200	0
9/16/2024 14:42	41002	LAUR_T2	1	1	0	2	2.1	0.1	0.13	0.14	0	0	0	0	0	0
9/16/2024 14:42	41001	LAUR_T2	2	2	0	0.6	0.85	0.25	0	0	0	0	0	0	0	0
9/16/2024 14:48	40801	EXCH_T2	0	0	0	0	0	0	-0.14	-0.23	1	1	0	1200	1200	0
9/16/2024 14:48	40802	EXCH_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/16/2024 14:50	53601	DALM_T2	1	1	0	0.4	1	0.6	-0.42	-0.47	1	1	0	900	900	0
9/16/2024 14:55	55002	NEWP_T1	6	6	0	0.65	0.7	0.05	-0.16	-0.14	0	0	0	0	0	0
9/16/2024 14:56	65603	QVIL_T2	0	0	0	0	0	0	-0.54	-0.36	0	0	0	0	0	0
9/16/2024 14:56	65601	QVIL_T2	1	0	-1	2.7	0	-2.7	0	0	0	0	0	0	0	0
9/16/2024 15:00	67402	WAKE_T2	0	0	0	0	0	0	-0.21	-0.21	1	1	0	600	600	0
9/16/2024 15:00	67503	WEWI_T2	1	1	0	8.6	8.1	-0.5	-0.04	0.03	0	0	0	0	0	0
9/16/2024 15:00	67401	WAKE_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/16/2024 15:00	67502	WEWI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/16/2024 15:01	67402	WAKE_T2	0	0	0	0	0	0	-0.21	-0.21	1	1	0	600	600	0
9/16/2024 15:01	67401	WAKE_T2	0	1	1	0	0.6	0.6	-0.83	-0.75	0	0	0	0	0	0
9/16/2024 15:11	60504	NMAN_T2	2	2	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
9/16/2024 15:11	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 15:15	24902	WHHA_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
9/16/2024 15:15	24901	WHHA_T1	1	0	-1	0.1	0	-0.1	0.65	0.63	0	0	0	0	0	0
9/16/2024 15:18	67401	WAKE_T2	0	1	1	0	0.6	0.6	-0.75	-0.86	0	0	0	0	0	0
9/16/2024 15:19	24901	WHHA_T1	1	0	-1	0.1	0	-0.1	0.65	0.63	0	0	0	0	0	0
9/16/2024 15:19	24902	WHHA_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
9/16/2024 15:20	25503	MADI_T1	12	2	-10	0.16	0.1	-0.06	-0.84	-0.82	0	0	0	0	0	0
9/16/2024 15:20	25501	MADI_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
9/16/2024 15:20	25502	MADI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/16/2024 15:22	55001	NEWP_T1	0	0	0	0	0	0	0.15	0.06	0	0	0	0	0	0
9/16/2024 15:22	55002	NEWP_T1	5	3	-2	0.82	0.7	-0.12	0	0	0	0	0	0	0	0
9/16/2024 15:24	55001	NEWP_T1	0	0	0	0	0	0	0.15	0.06	0	0	0	0	0	0
9/16/2024 15:24	58401	MORO_T1	0	0	0	0	0	0	-1.54	-1.59	2	2	0	1500	1500	0
9/16/2024 15:24	55002	NEWP_T1	5	3	-2	0.82	0.7	-0.12	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/16/2024 15:24	51402	LYKE_T1	0	0	0	0	0	0	-2	-2.02	2	2	0	1200	1200	0
9/16/2024 15:25	25503	MADI_T1	12	2	-10	0.16	0.1	-0.06	-0.82	-0.83	0	0	0	0	0	0
9/16/2024 15:25	25502	MADI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/16/2024 15:25	25501	MADI_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
9/16/2024 15:26	58401	MORO_T1	0	0	0	0	0	0	-1.54	-1.59	2	2	0	1500	1500	0
9/16/2024 15:27	66505	SMAN_T2	0	0	0	0	0	0	0.68	0.88	1	1	0	900	900	0
9/16/2024 15:28	60504	NMAN_T2	2	1	-1	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
9/16/2024 15:30	47401	PENS_T1	3	2	-1	0.93	0.2	-0.73	-0.1	-0.08	0	0	0	0	0	0
9/16/2024 15:30	47402	PENS_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/16/2024 15:30	47403	PENS_T1	7	2	-5	0.46	1.25	0.79	0	0	0	0	0	0	0	0
9/16/2024 15:31	44301	BEAV_T2	6	6	0	0.15	0.15	0	0.05	0.1	1	1	0	600	600	0
9/16/2024 15:32	44301	BEAV_T2	6	6	0	0.15	0.15	0	0.05	0.1	1	1	0	600	600	0
9/16/2024 15:35	42701	AUGU_T1	0	2	2	0	0.1	0.1	0	0	1	1	0	600	600	0
9/16/2024 15:35	25501	MADI_T1	3	3	0	0.3	0.47	0.17	0	0	0	0	0	0	0	0
9/16/2024 15:35	54602	SUMM_T2	0	0	0	0	0	0	-2.11	-2.08	1	1	0	600	600	0
9/16/2024 15:35	25503	MADI_T1	2	3	1	0.1	0.1	0	-0.82	-0.83	0	0	0	0	0	0
9/16/2024 15:35	25502	MADI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/16/2024 15:37	55002	NEWP_T1	3	3	0	0.5	0.87	0.37	-0.15	-0.15	0	0	0	0	0	0
9/16/2024 15:38	61001	DONV_T1	1	1	0	0.4	0.4	0	0.04	0.08	0	0	0	0	0	0
9/16/2024 15:41	25503	MADI_T1	2	3	1	0.1	0.1	0	-0.83	-0.82	0	0	0	0	0	0
9/16/2024 15:41	25502	MADI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/16/2024 15:41	25501	MADI_T1	3	3	0	0.3	0.47	0.17	0	0	0	0	0	0	0	0
9/16/2024 15:42	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 15:44	60701	BREC_T1	2	2	0	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
9/16/2024 15:46	60701	BREC_T1	2	0	-2	0.1	0	-0.1	-0.55	-0.31	2	1	-1	1200	600	-600
9/16/2024 15:47	60701	BREC_T1	2	0	-2	0.1	0	-0.1	-1.1	-0.62	4	2	-2	2400	1200	-1200
9/16/2024 15:49	10801	CHHI_T1	5	5	0	0.44	0.3	-0.14	-0.43	-1.01	1	2	1	900	1500	600
9/16/2024 15:49	60701	BREC_T1	2	0	-2	0.1	0	-0.1	-1.1	-0.62	4	2	-2	2400	1200	-1200
9/16/2024 15:59	43801	SWIL_T1	2	2	0	3.4	3.35	-0.05	0	0	0	0	0	0	0	0
9/16/2024 15:59	43802	SWIL_T1	0	0	0	0	0	0	0.18	0.19	1	1	0	600	600	0
9/16/2024 16:01	67803	WLAN_T1	0	0	0	0	0	0	-0.67	-0.63	0	0	0	0	0	0
9/16/2024 16:02	41301	FISH_T1	2	3	1	1.2	1.6	0.4	0	0	0	0	0	0	0	0
9/16/2024 16:04	42701	AUGU_T1	1	0	-1	0.1	0	-0.1	0	0	1	1	0	600	600	0
9/16/2024 16:05	41301	FISH_T1	2	3	1	1.2	1.6	0.4	0.07	0.05	0	0	0	0	0	0
9/16/2024 16:10	46101	MACI_T2	0	0	0	0	0	0	1.2	1.25	0	0	0	0	0	0
9/16/2024 16:17	67503	WEWI_T2	1	1	0	7.5	7.2	-0.3	0.1	0.1	0	0	0	0	0	0
9/16/2024 16:25	12701	MACU_T1	0	1	1	0	0	0	0.25	0.26	0	0	0	0	0	0
9/16/2024 16:27	64101	REFR_T1	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 16:28	49803	UNIV_T1	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
9/16/2024 16:28	49804	UNIV_T1	1	0	-1	0.1	0	-0.1	-0.03	-0.08	0	0	0	0	0	0
9/16/2024 16:30	49803	UNIV_T1	1	1	0	5	4.8	-0.2	-1.83	-1.88	0	0	0	0	0	0
9/16/2024 16:32	49803	UNIV_T1	1	1	0	5	4.8	-0.2	0	0	0	0	0	0	0	0
9/16/2024 16:32	49804	UNIV_T1	0	0	0	0	0	0	-0.03	-0.08	0	0	0	0	0	0
9/16/2024 16:32	67503	WEWI_T2	1	1	0	7.2	7.1	-0.1	0.1	0.09	0	0	0	0	0	0
9/16/2024 16:32	10705	CATA_T2	0	0	0	0	0	0	0.48	0.51	0	0	0	0	0	0
9/16/2024 16:33	44301	BEAV_T2	0	0	0	0	0	0	0.1	-0.21	1	1	0	600	600	0
9/16/2024 16:36	47901	HRDG_T1	0	0	0	0	0	0	0.12	0.07	1	1	0	1200	1200	0
9/16/2024 16:36	28403	HART_T2	0	0	0	0	0	0	-0.58	-0.59	1	1	0	900	900	0
9/16/2024 16:39	47901	HRDG_T1	0	0	0	0	0	0	0.12	0.07	1	1	0	1200	1200	0
9/16/2024 16:40	55002	NEWP_T1	3	2	-1	0.4	0.4	0	-0.13	-0.15	0	0	0	0	0	0
9/16/2024 16:40	55001	NEWP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/16/2024 16:53	42903	MIDD_T2	2	2	0	1.15	1.25	0.1	-0.87	-0.89	1	1	0	1200	1200	0
9/16/2024 16:53	42902	MIDD_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
9/16/2024 16:56	55002	NEWP_T1	2	1	-1	0.4	0.1	-0.3	-0.15	-0.12	0	0	0	0	0	0
9/16/2024 16:56	55001	NEWP_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/16/2024 16:58	42902	MIDD_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
9/16/2024 16:58	42903	MIDD_T2	2	2	0	1.15	1.25	0.1	-0.87	-0.89	1	1	0	1200	1200	0
9/16/2024 17:00	43505	WWIL_T1	1	1	0	3.1	3	-0.1	0	0	0	0	0	0	0	0
9/16/2024 17:00	43504	WWIL_T1	7	2	-5	0.21	0.3	0.09	1.04	1	0	0	0	0	0	0
9/16/2024 17:00	43506	WWIL_T1	6	1	-5	0.54	2	1.46	0	0	0	0	0	0	0	0
9/16/2024 17:05	46206	DANV_T2	1	1	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
9/16/2024 17:05	46203	DANV_T2	1	1	0	7.5	8	0.5	-0.37	-0.37	0	0	0	0	0	0
9/16/2024 17:07	46203	DANV_T2	1	1	0	7.5	8	0.5	-0.37	-0.4	0	0	0	0	0	0
9/16/2024 17:07	46206	DANV_T2	1	1	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
9/16/2024 17:10	15603	NSTR_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
9/16/2024 17:10	15601	NSTR_T2	3	3	0	0.33	0.8	0.47	0	0	0	0	0	0	0	0
9/16/2024 17:12	42002	MNVL_T2	1	1	0	3.5	3	-0.5	0	0	0	0	0	0	0	0
9/16/2024 17:12	42001	MNVL_T2	22	32	10	0.29	0.32	0.03	0.19	0.18	0	0	0	0	0	0
9/16/2024 17:20	55405	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 17:21	67605	WARW_T1	0	0	0	0	0	0	-0.74	-0.7	0	0	0	0	0	0
9/16/2024 17:21	48902	FOSP_T2	0	0	0	0	0	0	0.16	0.09	0	0	0	0	0	0
9/16/2024 17:24	55002	NEWP_T1	0	2	2	0	0.15	0.15	-0.13	-0.12	0	0	0	0	0	0
9/16/2024 17:26	65802	RTWN_T2	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
9/16/2024 17:31	40802	EXCH_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
9/16/2024 17:31	40801	EXCH_T2	3	4	1	0.2	0.3	0.1	-0.18	-0.21	1	1	0	1200	1200	0
9/16/2024 17:31	15702	TANN_T2	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
9/16/2024 17:31	15703	TANN_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
9/16/2024 17:32	22003	BOHE_T1	1	76	75	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
9/16/2024 17:32	22002	BOHE_T1	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
9/16/2024 17:33	40802	EXCH_T2	0	3	3	0	0.17	0.17	-0.14	-0.19	0	0	0	0	0	0
9/16/2024 17:33	40801	EXCH_T2	3	4	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/16/2024 17:33	67803	WLAN_T1	0	0	0	0	0	0	-0.65	-0.62	0	0	0	0	0	0
9/16/2024 17:34	40802	EXCH_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
9/16/2024 17:34	59002	MIFF_T1	1	5	4	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
9/16/2024 17:34	59003	MIFF_T1	1	0	-1	0.5	0	-0.5	-0.4	0.57	0	0	0	0	0	0
9/16/2024 17:34	28102	TWLA_T2	10	12	2	0.34	0.3	-0.04	0.25	0.24	0	0	0	0	0	0
9/16/2024 17:34	40801	EXCH_T2	3	4	1	0.2	0.3	0.1	-0.36	-0.41	2	2	0	2400	2400	0
9/16/2024 17:37	40801	EXCH_T2	3	4	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/16/2024 17:37	40802	EXCH_T2	0	3	3	0	0.17	0.17	-0.19	-0.19	0	0	0	0	0	0
9/16/2024 17:38	23202	HIRU_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/16/2024 17:38	23201	HIRU_T2	4	4	0	0.1	0.18	0.08	0	0	0	0	0	0	0	0
9/16/2024 17:38	23203	HIRU_T2	5	15	10	0.1	0.11	0.01	0.35	0.37	0	0	0	0	0	0
9/16/2024 17:42	24801	VALM_T1	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
9/16/2024 17:45	47401	PENS_T1	0	0	0	0	0	0	-0.2	-0.27	0	0	0	0	0	0
9/16/2024 17:45	47403	PENS_T1	1	0	-1	1.9	0	-1.9	0	0	0	0	0	0	0	0
9/16/2024 17:49	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 17:50	20802	LOPO_T1	0	0	0	0	0	0	-0.54	-0.52	1	1	0	600	600	0
9/16/2024 17:51	46102	MACI_T1	0	0	0	0	0	0	0.83	0.86	0	0	0	0	0	0
9/16/2024 17:52	40802	EXCH_T2	3	3	0	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/16/2024 17:52	40801	EXCH_T2	3	6	3	0.27	0.26	-0.01	-0.22	-0.22	1	1	0	1200	1200	0
9/16/2024 18:00	40801	EXCH_T2	4	7	3	0.3	0.3	0	-0.22	-0.22	1	1	0	1200	1200	0
9/16/2024 18:00	40802	EXCH_T2	3	13	10	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
9/16/2024 18:03	67805	WLAN_T1	0	0	0	0	0	0	-1.16	-1.2	0	0	0	0	0	0
9/16/2024 18:05	10703	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 18:05	63305	GREE_T1	6	3	-3	0.17	0.2	0.03	-1.9	-2.04	1	1	0	900	900	0
9/16/2024 18:05	67801	WLAN_T1	0	0	0	0	0	0	0.63	0.54	0	0	0	0	0	0
9/16/2024 18:07	22903	HARW_T1	1	21	20	0.7	0.83	0.13	0	0	0	0	0	0	0	0
9/16/2024 18:07	44502	HAMI_T2	1	1	0	2.3	2.5	0.2	-0.61	-0.67	0	0	0	0	0	0
9/16/2024 18:07	22904	HARW_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
9/16/2024 18:07	63305	GREE_T1	6	3	-3	0.17	0.2	0.03	-2.04	-1.98	1	1	0	900	900	0
9/16/2024 18:08	46101	MACI_T2	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
9/16/2024 18:09	64601	LEOL_T1	0	0	0	0	0	0	-1.66	-1.64	1	1	0	1200	1200	0
9/16/2024 18:13	41901	REED_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/16/2024 18:13	41903	REED_T1	0	0	0	0	0	0	1.05	1.07	0	0	0	0	0	0
9/16/2024 18:13	41902	REED_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 18:16	24902	WHHA_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/16/2024 18:16	24901	WHHA_T1	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
9/16/2024 18:20	63304	GREE_T1	0	0	0	0	0	0	-1.27	-1.42	0	0	0	0	0	0
9/16/2024 18:20	63305	GREE_T1	3	8	5	0.2	0.35	0.15	0	0	0	0	0	0	0	0
9/16/2024 18:21	65603	QVIL_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
9/16/2024 18:21	64605	LEOL_T1	0	0	0	0	0	0	0.02	0.33	1	0	-1	300	0	-300
9/16/2024 18:22	20802	LOPO_T1	0	0	0	0	0	0	-0.53	-0.53	1	1	0	600	600	0
9/16/2024 18:23	63305	GREE_T1	3	8	5	0.2	0.35	0.15	0	0	0	0	0	0	0	0
9/16/2024 18:23	63304	GREE_T1	0	0	0	0	0	0	-1.42	-1.39	0	0	0	0	0	0
9/16/2024 18:28	44905	SCOT_T1	3	2	-1	0.67	0.2	-0.47	0	0	0	0	0	0	0	0
9/16/2024 18:28	44903	SCOT_T1	0	0	0	0	0	0	-0.59	-0.64	0	0	0	0	0	0
9/16/2024 18:34	22905	HARW_T1	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
9/16/2024 18:34	22903	HARW_T1	21	18	-3	1.04	0	-1.04	0	0	0	0	0	0	0	0
9/16/2024 18:38	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/16/2024 19:03	21501	CEAV_T2	0	0	0	0	0	0	-1.13	-1.07	1	1	0	1200	1200	0
9/16/2024 20:06	42302	MOWR_T2	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
9/16/2024 20:29	66505	SMAN_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
9/16/2024 20:29	66502	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 20:29	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 20:36	40201	BEGA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/16/2024 20:39	62106	ELAN_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
9/16/2024 20:41	57203	ROSS_T1	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
9/16/2024 20:54	60101	COCA_T1	0	0	0	0	0	0	0.46	0.41	0	0	0	0	0	0
9/16/2024 20:56	67605	WARW_T1	3	23	20	0.4	0.51	0.11	-1.02	-1.04	0	0	0	0	0	0
9/16/2024 21:03	15703	TANN_T2	3	3	0	1.63	1.6	-0.03	0	0	0	0	0	0	0	0
9/16/2024 21:03	24902	WHHA_T1	0	1	1	0	0	0	0.79	0.78	0	0	0	0	0	0
9/16/2024 21:03	16101	BING_T2	0	0	0	0	0	0	0.57	0.6	0	0	0	0	0	0
9/16/2024 21:03	15702	TANN_T2	94	68	-26	0.23	0.21	-0.02	-0.36	-0.39	0	0	0	0	0	0
9/16/2024 21:03	26704	HEML_T2	16	44	28	0.11	0.12	0.01	-0.81	-0.83	1	1	0	1200	1200	0
9/16/2024 21:03	62604	ENGL_T1	0	0	0	0	0	0	-0.77	-0.69	1	1	0	600	600	0
9/16/2024 21:03	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/16/2024 21:04	15701	TANN_T1	26	30	4	0.45	0.42	-0.03	0	0	0	0	0	0	0	0
9/16/2024 21:04	15603	NSTR_T2	11	4	-7	0.13	0.1	-0.03	-0.27	-0.25	0	0	0	0	0	0
9/16/2024 21:04	28703	HAML_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
9/16/2024 21:04	28704	HAML_T2	1	1	0	0.6	0.7	0.1	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 21:04	15704	TANN_T1	0	12	12	0	0.1	0.1	-0.45	-0.5	0	0	0	0	0	0
9/16/2024 21:04	15601	NSTR_T2	3	0	-3	0.63	0	-0.63	0	0	0	0	0	0	0	0
9/16/2024 21:05	23202	HIRU_T2	27	9	-18	0.16	0.13	-0.03	0.12	0.11	0	0	0	0	0	0
9/16/2024 21:05	51304	WIND_T2	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
9/16/2024 21:05	51302	WIND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:05	66903	SHIL_T2	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
9/16/2024 21:05	23203	HIRU_T2	130	5	-125	0.16	0.12	-0.04	0	0	0	0	0	0	0	0
9/16/2024 21:05	23201	HIRU_T2	53	10	-43	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
9/16/2024 21:05	66902	SHIL_T2	23	126	103	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/16/2024 21:05	66901	SHIL_T2	78	181	103	0.14	0.19	0.05	0	0	0	0	0	0	0	0
9/16/2024 21:05	24801	VALM_T1	0	0	0	0	0	0	-0.24	-0.32	0	0	0	0	0	0
9/16/2024 21:05	16402	MOPO_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
9/16/2024 21:05	25402	LAHA_T2	0	0	0	0	0	0	-0.85	-0.89	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/16/2024 21:05	13905	SEID_T1	0	0	0	0	0	0	-0.83	-0.84	1	1	0	1200	1200	0
9/16/2024 21:06	67502	WEWI_T2	13	36	23	0.15	0.16	0.01	-1.25	-1.3	1	1	0	900	900	0
9/16/2024 21:06	45902	AUBU_T1	29	6	-23	0.25	0.13	-0.12	0	0	0	0	0	0	0	0
9/16/2024 21:06	12605	MACA_T1	0	1	1	0	0	0	0.38	0.38	0	0	0	0	0	0
9/16/2024 21:06	24901	WHHA_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
9/16/2024 21:06	45901	AUBU_T1	0	0	0	0	0	0	1.53	1.63	0	0	0	0	0	0
9/16/2024 21:06	67503	WEWI_T2	1	1	0	8	8.1	0.1	0	0	0	0	0	0	0	0
9/16/2024 21:06	24902	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:06	27101	GFLD_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
9/16/2024 21:06	48302	ORWI_T2	2	2	0	1.35	1.4	0.05	-0.03	-0.04	0	0	0	0	0	0
9/16/2024 21:06	20603	GRWO_T2	0	0	0	0	0	0	-0.63	-0.65	1	1	0	900	900	0
9/16/2024 21:07	16402	MOPO_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
9/16/2024 21:07	67001	STHI_T2	1	47	46	0.3	0.12	-0.18	0	0	0	0	0	0	0	0
9/16/2024 21:07	10805	CHHI_T2	1	1	0	7.7	7.2	-0.5	-0.72	-0.95	1	1	0	600	600	0
9/16/2024 21:07	67002	STHI_T2	0	0	0	0	0	0	0.87	0.79	0	0	0	0	0	0
9/16/2024 21:07	60701	BREC_T1	0	1	1	0	0.1	0.1	-0.39	-0.43	1	1	0	600	600	0
9/16/2024 21:07	11507	FREE_T2	0	0	0	0	0	0	1.16	1	0	0	0	0	0	0
9/16/2024 21:08	22003	BOHE_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/16/2024 21:08	57401	SPAN_T1	2	2	0	0.6	0.9	0.3	-1.37	-1.54	2	2	0	1200	1200	0
9/16/2024 21:08	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 21:08	12001	HATF_T1	0	0	0	0	0	0	1.13	1	1	1	0	600	600	0
9/16/2024 21:08	43801	SWIL_T1	2	8	6	3.2	0.89	-2.31	0	0	0	0	0	0	0	0
9/16/2024 21:08	44503	HAMI_T2	0	0	0	0	0	0	-1.18	-1.24	1	1	0	1200	1200	0
9/16/2024 21:08	63304	GREE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/16/2024 21:08	44203	POIN_T2	0	0	0	0	0	0	-0.37	-0.21	2	2	0	2100	2100	0
9/16/2024 21:08	43802	SWIL_T1	0	0	0	0	0	0	-0.01	0	1	1	0	600	600	0
9/16/2024 21:08	22002	BOHE_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
9/16/2024 21:08	24902	WHHA_T1	0	1	1	0	0	0	0.78	0.76	0	0	0	0	0	0
9/16/2024 21:08	41901	REED_T1	4	3	-1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
9/16/2024 21:08	23203	HIRU_T2	130	5	-125	0.16	0.12	-0.04	-0.18	0.18	0	0	0	0	0	0
9/16/2024 21:08	20401	ASHF_T2	4	1	-3	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
9/16/2024 21:08	64201	KINZ_T1	6	4	-2	0.42	0.35	-0.07	-0.63	-0.67	3	3	0	1500	1500	0
9/16/2024 21:08	53501	EVIL_T2	2	2	0	0.9	0.85	-0.05	-0.01	-0.01	1	1	0	900	900	0
9/16/2024 21:08	64204	KINZ_T1	9	2	-7	0.28	0.55	0.27	0	0	0	0	0	0	0	0
9/16/2024 21:08	63305	GREE_T1	0	7	7	0	0.1	0.1	-1.2	-1.21	0	0	0	0	0	0
9/16/2024 21:08	45902	AUBU_T1	29	6	-23	0.25	0.13	-0.12	-0.85	-0.88	1	1	0	600	600	0
9/16/2024 21:08	20601	GRWO_T2	0	0	0	0	0	0	1	1	0	0	0	0	0	0
9/16/2024 21:08	64202	KINZ_T1	4	2	-2	0.73	0.3	-0.43	0	0	0	0	0	0	0	0
9/16/2024 21:08	44502	HAMI_T2	1	1	0	2.9	3.2	0.3	0	0	0	0	0	0	0	0
9/16/2024 21:08	23202	HIRU_T2	27	9	-18	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
9/16/2024 21:08	64902	MILL_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
9/16/2024 21:08	23201	HIRU_T2	53	10	-43	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
9/16/2024 21:08	57403	SPAN_T1	1	9	8	0.1	0.23	0.13	0	0	0	0	0	0	0	0
9/16/2024 21:08	20403	ASHF_T2	0	0	0	0	0	0	0.21	0.16	0	0	0	0	0	0
9/16/2024 21:08	44301	BEAV_T2	0	0	0	0	0	0	-0.45	-0.55	1	1	0	600	600	0
9/16/2024 21:08	41903	REED_T1	0	0	0	0	0	0	1.15	1.09	0	0	0	0	0	0
9/16/2024 21:08	40201	BEGA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/16/2024 21:08	44601	SALE_T2	0	0	0	0	0	0	0	0	1	1	0	300	300	0
9/16/2024 21:09	10805	CHHI_T2	1	1	0	7.7	7.2	-0.5	-0.72	-0.95	1	1	0	600	600	0
9/16/2024 21:09	52006	LING_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/16/2024 21:09	44802	EDAN_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
9/16/2024 21:09	53901	HALI_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
9/16/2024 21:09	67001	STHI_T2	1	47	46	0.3	0.12	-0.18	0	0	0	0	0	0	0	0
9/16/2024 21:09	20601	GRWO_T2	0	0	0	0	0	0	1	1	0	0	0	0	0	0
9/16/2024 21:09	67002	STHI_T2	0	0	0	0	0	0	1.74	1.58	0	0	0	0	0	0
9/16/2024 21:09	20802	LOPO_T1	0	0	0	0	0	0	-0.56	-0.58	1	1	0	600	600	0
9/16/2024 21:09	42601	TUSC_T1	1	1	0	0.2	0.1	-0.1	-0.9	-0.87	4	4	0	3600	3600	0
9/16/2024 21:09	47401	PENS_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
9/16/2024 21:09	52002	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/16/2024 21:09	57401	SPAN_T1	2	2	0	0.6	0.9	0.3	-0.68	-0.77	1	1	0	600	600	0
9/16/2024 21:09	44702	MUNC_T2	56	88	32	0.23	0.45	0.22	0	0	0	0	0	0	0	0
9/16/2024 21:09	44703	MUNC_T2	2	2	0	0.7	1.05	0.35	0.85	0.87	0	0	0	0	0	0
9/16/2024 21:09	44801	EDAN_T2	216	203	-13	0.49	0.54	0.05	0	0	0	0	0	0	0	0
9/16/2024 21:09	44701	MUNC_T2	4	25	21	0.18	0.2	0.02	0	0	0	0	0	0	0	0
9/16/2024 21:09	52004	LING_T2	2	2	0	5.9	5.95	0.05	0.48	0.4	0	0	0	0	0	0
9/16/2024 21:09	53501	EVIL_T2	2	2	0	0.9	0.85	-0.05	-0.01	-0.01	1	1	0	900	900	0
9/16/2024 21:09	53903	HALI_T2	2	2	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
9/16/2024 21:09	48902	FOSP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:09	57403	SPAN_T1	1	9	8	0.1	0.23	0.13	0	0	0	0	0	0	0	0
9/16/2024 21:09	63401	HONY_T1	0	0	0	0	0	0	-0.07	-0.04	1	1	0	600	600	0
9/16/2024 21:09	53902	HALI_T2	1	1	0	5.2	4.6	-0.6	-0.23	-0.24	0	0	0	0	0	0
9/16/2024 21:09	60701	BREC_T1	0	1	1	0	0.1	0.1	-0.39	-0.43	1	1	0	600	600	0
9/16/2024 21:09	10703	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:10	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/16/2024 21:10	47002	HUGH_T2	0	6	6	0	0.23	0.23	0	0	0	0	0	0	0	0
9/16/2024 21:10	44801	EDAN_T2	216	203	-13	0.49	0.54	0.05	0	0	0	0	0	0	0	0
9/16/2024 21:10	10805	CHHI_T2	1	1	0	7.7	7.2	-0.5	-0.72	-0.95	1	1	0	600	600	0
9/16/2024 21:10	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:10	47001	HUGH_T2	3	7	4	8.43	4.07	-4.36	-1.24	-1.37	0	0	0	0	0	0
9/16/2024 21:10	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
9/16/2024 21:10	43302	WATS_T2	4	4	0	0.2	0.63	0.43	0	0	0	0	0	0	0	0
9/16/2024 21:10	52006	LING_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/16/2024 21:10	42903	MIDD_T2	2	2	0	0.25	0.8	0.55	-0.46	-0.34	0	0	0	0	0	0
9/16/2024 21:10	67503	WEWI_T2	1	1	0	8	8.1	0.1	0	0	0	0	0	0	0	0
9/16/2024 21:10	56501	ROCK_T2	2	2	0	0.9	0.8	-0.1	0.18	0.14	0	0	0	0	0	0
9/16/2024 21:10	64903	MILL_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
9/16/2024 21:10	67002	STHI_T2	0	0	0	0	0	0	1.74	1.58	0	0	0	0	0	0
9/16/2024 21:10	14203	EALL_T1	0	0	0	0	0	0	-0.19	-0.23	1	1	0	1200	1200	0
9/16/2024 21:10	52004	LING_T2	2	2	0	5.9	5.95	0.05	0	0	0	0	0	0	0	0
9/16/2024 21:10	42902	MIDD_T2	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
9/16/2024 21:10	15702	TANN_T2	94	68	-26	0.23	0.21	-0.02	-0.39	-0.41	0	0	0	0	0	0
9/16/2024 21:10	52002	LING_T2	0	1	1	0	0.2	0.2	0.12	0.05	0	0	0	0	0	0
9/16/2024 21:10	20802	LOPO_T1	0	0	0	0	0	0	-0.56	-0.58	1	1	0	600	600	0
9/16/2024 21:10	14404	SSLA_T1	0	0	0	0	0	0	0.05	-0.03	0	0	0	0	0	0
9/16/2024 21:10	67001	STHI_T2	1	47	46	0.3	0.12	-0.18	0	0	0	0	0	0	0	0
9/16/2024 21:10	14402	SSLA_T1	7	0	-7	0.11	0	-0.11	0	0	0	0	0	0	0	0
9/16/2024 21:10	51402	LYKE_T1	0	0	0	0	0	0	-1.48	-1.49	1	1	0	600	600	0
9/16/2024 21:10	54506	ENOL_T2	0	0	0	0	0	0	0.81	0.74	1	1	0	600	600	0
9/16/2024 21:10	60501	NMAN_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
9/16/2024 21:10	15703	TANN_T2	3	3	0	1.63	1.6	-0.03	0	0	0	0	0	0	0	0
9/16/2024 21:10	44703	MUNC_T2	2	2	0	0.7	1.05	0.35	0	0	0	0	0	0	0	0
9/16/2024 21:10	64503	LAVI_T1	0	0	0	0	0	0	-0.42	-0.34	1	1	0	1200	1200	0
9/16/2024 21:10	45902	AUBU_T1	29	6	-23	0.25	0.13	-0.12	-0.85	-0.88	1	1	0	600	600	0
9/16/2024 21:10	44903	SCOT_T1	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
9/16/2024 21:10	10705	CATA_T2	0	0	0	0	0	0	0.28	0.22	0	0	0	0	0	0
9/16/2024 21:10	43301	WATS_T2	0	1	1	0	0.1	0.1	0.42	0.4	0	0	0	0	0	0
9/16/2024 21:10	44701	MUNC_T2	4	25	21	0.18	0.2	0.02	0	0	0	0	0	0	0	0
9/16/2024 21:10	67502	WEWI_T2	13	36	23	0.15	0.16	0.01	-1.3	-1.32	1	1	0	900	900	0
9/16/2024 21:10	40802	EXCH_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
9/16/2024 21:10	47401	PENS_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
9/16/2024 21:10	44802	EDAN_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
9/16/2024 21:10	44702	MUNC_T2	56	88	32	0.23	0.45	0.22	0	0	0	0	0	0	0	0
9/16/2024 21:10	45501	DERR_T2	0	0	0	0	0	0	0.2	0.01	2	2	0	1800	1800	0
9/16/2024 21:10	14401	SSLA_T1	1	0	-1	0.2	0	-0.2	-0.46	-0.47	0	0	0	0	0	0
9/16/2024 21:10	45802	HEGI_T2	10	41	31	0.28	0.72	0.44	0	0	0	0	0	0	0	0
9/16/2024 21:11	63305	GREE_T1	0	7	7	0	0.1	0.1	-1.2	-1.21	0	0	0	0	0	0
9/16/2024 21:11	67503	WEWI_T2	1	1	0	8	8.1	0.1	0.09	0.06	0	0	0	0	0	0
9/16/2024 21:11	51302	WIND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:11	20403	ASHF_T2	0	0	0	0	0	0	0.42	0.32	0	0	0	0	0	0
9/16/2024 21:11	10805	CHHI_T2	1	1	0	7.7	7.2	-0.5	-0.72	-0.95	1	1	0	600	600	0
9/16/2024 21:11	65803	RTWN_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/16/2024 21:11	45502	DERR_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
9/16/2024 21:11	40802	EXCH_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
9/16/2024 21:11	10801	CHHI_T1	0	0	0	0	0	0	-1.28	-1.3	2	2	0	1800	1800	0
9/16/2024 21:11	20401	ASHF_T2	4	1	-3	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
9/16/2024 21:11	42201	SHEN_T2	0	0	0	0	0	0	0.1	0.08	1	1	0	600	600	0
9/16/2024 21:11	63304	GREE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/16/2024 21:11	64602	LEOL_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
9/16/2024 21:11	21704	SUBU_T1	0	0	0	0	0	0	-1.04	-1.01	1	1	0	1200	1200	0
9/16/2024 21:11	44601	SALE_T2	0	0	0	0	0	0	0	0	1	1	0	300	300	0
9/16/2024 21:11	42903	MIDD_T2	2	2	0	0.25	0.8	0.55	0	0	0	0	0	0	0	0
9/16/2024 21:11	55001	NEWP_T1	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
9/16/2024 21:11	67502	WEWI_T2	13	36	23	0.15	0.16	0.01	-1.3	-1.32	1	1	0	900	900	0
9/16/2024 21:11	57403	SPAN_T1	1	9	8	0.1	0.23	0.13	0	0	0	0	0	0	0	0
9/16/2024 21:11	60101	COCA_T1	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
9/16/2024 21:11	21705	SUBU_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
9/16/2024 21:11	67703	WERN_T2	0	0	0	0	0	0	0.01	-0.05	1	1	0	900	900	0
9/16/2024 21:11	55002	NEWP_T1	6	6	0	0.93	0.63	-0.3	0	0	0	0	0	0	0	0
9/16/2024 21:11	65206	PRIN_T4	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/16/2024 21:11	49803	UNIV_T1	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
9/16/2024 21:11	44502	HAMI_T2	1	1	0	2.9	3.2	0.3	-0.81	-0.76	0	0	0	0	0	0
9/16/2024 21:11	41301	FISH_T1	2	2	0	1	1	0	0	0	0	0	0	0	0	0
9/16/2024 21:11	50501	MECH_T1	4	4	0	1.6	1.08	-0.52	-1.06	-1.05	0	0	0	0	0	0
9/16/2024 21:11	67605	WARW_T1	14	24	10	0.36	0.53	0.17	-2.08	-2.11	0	0	0	0	0	0
9/16/2024 21:11	21701	SUBU_T1	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
9/16/2024 21:11	23401	HONE_T2	0	0	0	0	0	0	-0.12	0.05	0	0	0	0	0	0
9/16/2024 21:11	45902	AUBU_T1	29	6	-23	0.25	0.13	-0.12	-2.56	-2.65	3	3	0	1800	1800	0
9/16/2024 21:11	48302	ORWI_T2	2	2	0	1.35	1.4	0.05	0	0	0	0	0	0	0	0
9/16/2024 21:11	44505	HAMI_T2	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
9/16/2024 21:11	22904	HARW_T1	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
9/16/2024 21:11	64903	MILL_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
9/16/2024 21:11	60801	BUCK_T1	0	10	10	0	0.13	0.13	-0.15	-0.2	0	0	0	0	0	0
9/16/2024 21:11	42902	MIDD_T2	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
9/16/2024 21:11	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:11	42601	TUSC_T1	1	1	0	0.2	0.1	-0.1	-0.45	-0.44	2	2	0	1800	1800	0
9/16/2024 21:11	60803	BUCK_T1	0	8	8	0	0.19	0.19	0	0	0	0	0	0	0	0
9/16/2024 21:11	65802	RTWN_T2	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
9/16/2024 21:11	42802	SELI_T1	0	1	1	0	0.9	0.9	-1.17	-1.27	1	1	0	900	900	0
9/16/2024 21:11	46101	MACI_T2	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
9/16/2024 21:11	51304	WIND_T2	0	0	0	0	0	0	0.59	0.54	0	0	0	0	0	0
9/16/2024 21:11	65207	PRIN_T4	10	1	-9	0.21	1.1	0.89	0	0	0	0	0	0	0	0
9/16/2024 21:11	56501	ROCK_T2	2	2	0	0.9	0.8	-0.1	0.18	0.14	0	0	0	0	0	0
9/16/2024 21:11	50502	MECH_T1	58	36	-22	0.21	0.24	0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/16/2024 21:11	57401	SPAN_T1	2	2	0	0.6	0.9	0.3	-0.68	-0.77	1	1	0	600	600	0
9/16/2024 21:11	11202	ELHE_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
9/16/2024 21:11	47401	PENS_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
9/16/2024 21:11	49804	UNIV_T1	0	0	0	0	0	0	-0.61	-0.59	0	0	0	0	0	0
9/16/2024 21:11	40601	PIGR_T1	25	112	87	0.12	0.19	0.07	0	0	0	0	0	0	0	0
9/16/2024 21:11	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/16/2024 21:12	57403	SPAN_T1	1	9	8	0.1	0.23	0.13	0	0	0	0	0	0	0	0
9/16/2024 21:12	57401	SPAN_T1	2	2	0	0.6	0.9	0.3	-1.37	-1.54	2	2	0	1200	1200	0
9/16/2024 21:12	66502	SMAN_T2	1	0	-1	7.3	0	-7.3	0	0	0	0	0	0	0	0
9/16/2024 21:12	56501	ROCK_T2	2	2	0	0.9	0.8	-0.1	0.18	0.14	0	0	0	0	0	0
9/16/2024 21:12	45501	DERR_T2	0	0	0	0	0	0	0.2	0.01	2	2	0	1800	1800	0
9/16/2024 21:12	12001	HATF_T1	0	0	0	0	0	0	1.13	1	1	1	0	600	600	0
9/16/2024 21:12	66504	SMAN_T2	0	0	0	0	0	0	0.04	-0.09	0	0	0	0	0	0
9/16/2024 21:12	67603	WARW_T1	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
9/16/2024 21:12	45902	AUBU_T1	29	6	-23	0.25	0.13	-0.12	-0.85	-0.88	1	1	0	600	600	0
9/16/2024 21:12	45802	HEGI_T2	10	41	31	0.28	0.72	0.44	0.73	0.63	0	0	0	0	0	0
9/16/2024 21:12	65802	RTWN_T2	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
9/16/2024 21:12	20403	ASHF_T2	0	0	0	0	0	0	0.21	0.16	0	0	0	0	0	0
9/16/2024 21:12	60101	COCA_T1	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
9/16/2024 21:12	24102	EHAZ_T1	1	0	-1	0.1	0	-0.1	0.65	0.63	0	0	0	0	0	0
9/16/2024 21:12	20401	ASHF_T2	4	1	-3	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
9/16/2024 21:12	64101	REFR_T1	6	0	-6	0.45	0	-0.45	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 21:12	67503	WEWI_T2	1	1	0	8	8.1	0.1	0.09	0.06	0	0	0	0	0	0
9/16/2024 21:12	61503	EPET_T1	0	0	0	0	0	0	-0.82	-0.8	0	0	0	0	0	0
9/16/2024 21:12	66505	SMAN_T2	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0	0
9/16/2024 21:12	65803	RTWN_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/16/2024 21:12	60701	BREC_T1	0	1	1	0	0.1	0.1	-0.77	-0.85	2	2	0	1200	1200	0
9/16/2024 21:12	60501	NMAN_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
9/16/2024 21:12	16103	BING_T2	0	0	0	0	0	0	-1.24	-1.28	1	1	0	900	900	0
9/16/2024 21:12	24702	FLND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:12	24105	EHAZ_T1	4	4	0	6.05	6.08	0.03	0	0	0	0	0	0	0	0
9/16/2024 21:12	44201	POIN_T1	1	63	62	0.1	0.14	0.04	0	0	6	6	0	6300	6300	0
9/16/2024 21:12	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/16/2024 21:12	67605	WARW_T1	14	24	10	0.36	0.53	0.17	0	0	0	0	0	0	0	0
9/16/2024 21:12	62105	ELAN_T1	0	0	0	0	0	0	1.32	1.26	0	0	0	0	0	0
9/16/2024 21:12	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/16/2024 21:12	13704	SCHN_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
9/16/2024 21:12	51302	WIND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:12	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/16/2024 21:12	55508	HERS_T2	2	2	0	1.15	1.4	0.25	-4.91	-4.96	2	2	0	2400	2400	0
9/16/2024 21:12	60502	NMAN_T2	0	0	0	0	0	0	-0.11	-0.06	0	0	0	0	0	0
9/16/2024 21:12	53501	EVIL_T2	2	2	0	0.9	0.85	-0.05	-0.01	-0.01	1	1	0	900	900	0
9/16/2024 21:12	46203	DANV_T2	1	1	0	8.7	8.3	-0.4	-0.64	-0.66	0	0	0	0	0	0
9/16/2024 21:12	41301	FISH_T1	2	2	0	1	1	0	-0.03	0	0	0	0	0	0	0
9/16/2024 21:12	44301	BEAV_T2	0	0	0	0	0	0	-0.45	-0.55	1	1	0	600	600	0
9/16/2024 21:12	67502	WEWI_T2	13	36	23	0.15	0.16	0.01	0	0	0	0	0	0	0	0
9/16/2024 21:12	67001	STHI_T2	1	47	46	0.3	0.12	-0.18	0.23	0.23	0	0	0	0	0	0
9/16/2024 21:12	43202	MVIL_T2	0	0	0	0	0	0	-0.67	-0.7	0	0	0	0	0	0
9/16/2024 21:12	51306	WIND_T2	0	0	0	0	0	0	0.24	0.28	0	0	0	0	0	0
9/16/2024 21:12	42201	SHEN_T2	0	0	0	0	0	0	0.1	0.08	1	1	0	600	600	0
9/16/2024 21:13	11405	FARM_T1	1	1	0	4.7	4.3	-0.4	-0.66	-0.71	1	1	0	1200	1200	0
9/16/2024 21:13	15702	TANN_T2	94	68	-26	0.23	0.21	-0.02	-0.39	-0.41	0	0	0	0	0	0
9/16/2024 21:13	67402	WAKE_T2	0	0	0	0	0	0	-0.55	-0.6	2	2	0	1200	1200	0
9/16/2024 21:13	66504	SMAN_T2	0	0	0	0	0	0	0.02	-0.04	0	0	0	0	0	0
9/16/2024 21:13	43504	WWIL_T1	5	14	9	0.3	0.24	-0.06	0.81	0.82	0	0	0	0	0	0
9/16/2024 21:13	63305	GREE_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
9/16/2024 21:13	56501	ROCK_T2	2	2	0	0.9	0.8	-0.1	0.37	0.28	0	0	0	0	0	0
9/16/2024 21:13	66505	SMAN_T2	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0	0
9/16/2024 21:13	66502	SMAN_T2	1	0	-1	7.3	0	-7.3	0	0	0	0	0	0	0	0
9/16/2024 21:13	20603	GRWO_T2	0	0	0	0	0	0	-0.63	-0.65	1	1	0	900	900	0
9/16/2024 21:13	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
9/16/2024 21:13	62607	ENGL_T1	0	0	0	0	0	0	-0.87	-0.88	1	1	0	300	300	0
9/16/2024 21:13	42001	MNVL_T2	229	268	39	0.65	0.96	0.31	-0.13	-0.17	0	0	0	0	0	0
9/16/2024 21:13	42002	MNVL_T2	1	4	3	2.6	0.6	-2	0	0	0	0	0	0	0	0
9/16/2024 21:13	64203	KINZ_T1	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
9/16/2024 21:13	64204	KINZ_T1	9	2	-7	0.28	0.55	0.27	0	0	0	0	0	0	0	0
9/16/2024 21:13	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:13	44301	BEAV_T2	0	0	0	0	0	0	-0.45	-0.55	1	1	0	600	600	0
9/16/2024 21:13	53903	HALI_T2	2	2	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
9/16/2024 21:13	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/16/2024 21:13	52001	LING_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
9/16/2024 21:13	67605	WARW_T1	14	24	10	0.36	0.53	0.17	-1.04	-1.05	0	0	0	0	0	0
9/16/2024 21:13	51101	CARL_T1	1	1	0	5	5.1	0.1	0	0	0	0	0	0	0	0
9/16/2024 21:13	63304	GREE_T1	0	2	2	0	0.1	0.1	-1.64	-1.66	0	0	0	0	0	0
9/16/2024 21:13	47401	PENS_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
9/16/2024 21:13	43505	WWIL_T1	1	2	1	3.1	1.7	-1.4	0	0	0	0	0	0	0	0
9/16/2024 21:13	43402	BENT_T1	0	0	0	0	0	0	-0.61	-0.64	1	1	0	600	600	0
9/16/2024 21:13	40901	JESH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/16/2024 21:13	53902	HALI_T2	1	1	0	5.2	4.6	-0.6	0	0	0	0	0	0	0	0
9/16/2024 21:13	51102	CARL_T1	78	97	19	0.21	0.23	0.02	0	0	0	0	0	0	0	0
9/16/2024 21:13	15703	TANN_T2	3	3	0	1.63	1.6	-0.03	0	0	0	0	0	0	0	0
9/16/2024 21:13	51302	WIND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:13	40902	JESH_T1	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
9/16/2024 21:13	43506	WWIL_T1	3	14	11	0.77	0.3	-0.47	0	0	0	0	0	0	0	0
9/16/2024 21:13	67602	WARW_T2	0	0	0	0	0	0	0.94	0.91	0	0	0	0	0	0
9/16/2024 21:13	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:13	64601	LEOL_T1	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
9/16/2024 21:13	64101	REFR_T1	6	0	-6	0.45	0	-0.45	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 21:13	67401	WAKE_T2	0	1	1	0	0.1	0.1	-0.85	-0.88	0	0	0	0	0	0
9/16/2024 21:13	53901	HALI_T2	1	0	-1	0.7	0	-0.7	-0.06	-0.07	0	0	0	0	0	0
9/16/2024 21:13	44201	POIN_T1	1	63	62	0.1	0.14	0.04	0	0	2	2	0	2100	2100	0
9/16/2024 21:13	64202	KINZ_T1	4	2	-2	0.73	0.3	-0.43	0	0	0	0	0	0	0	0
9/16/2024 21:13	64201	KINZ_T1	6	4	-2	0.42	0.35	-0.07	0	0	0	0	0	0	0	0
9/16/2024 21:14	49803	UNIV_T1	1	1	0	6.2	6.2	0	-0.97	-0.99	0	0	0	0	0	0
9/16/2024 21:14	22905	HARW_T1	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
9/16/2024 21:14	44201	POIN_T1	1	63	62	0.1	0.14	0.04	0	0	2	2	0	2100	2100	0
9/16/2024 21:14	43402	BENT_T1	0	0	0	0	0	0	-0.61	-0.64	1	1	0	600	600	0
9/16/2024 21:14	63501	HEID_TBK1-2	31	115	84	0.72	0.2	-0.52	-0.3	-0.34	1	1	0	900	900	0
9/16/2024 21:14	67203	TEHI_T1	1	0	-1	0.8	0	-0.8	2.31	2.28	2	2	0	1500	1500	0
9/16/2024 21:14	60701	BREC_T1	0	1	1	0	0.1	0.1	-0.39	-0.43	1	1	0	600	600	0
9/16/2024 21:14	44801	EDAN_T2	216	203	-13	0.49	0.54	0.05	-1.63	-1.63	0	0	0	0	0	0
9/16/2024 21:14	43301	WATS_T2	0	1	1	0	0.1	0.1	0.42	0.4	0	0	0	0	0	0
9/16/2024 21:14	67805	WLAN_T1	1	215	214	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/16/2024 21:14	42802	SELI_T1	0	1	1	0	0.9	0.9	-1.17	-1.27	1	1	0	900	900	0
9/16/2024 21:14	67801	WLAN_T1	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
9/16/2024 21:14	62105	ELAN_T1	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
9/16/2024 21:14	59002	MIFF_T1	5	5	0	0.38	0.4	0.02	0	0	0	0	0	0	0	0
9/16/2024 21:14	65001	NEFF_T2	0	0	0	0	0	0	-0.75	-0.77	1	1	0	1200	1200	0
9/16/2024 21:14	13502	MCMI_T1	6	4	-2	0.15	0.18	0.03	0	0	0	0	0	0	0	0
9/16/2024 21:14	46004	BERW_T2	0	1	1	0	0	0	-0.02	-0.07	0	0	0	0	0	0
9/16/2024 21:14	43302	WATS_T2	4	4	0	0.2	0.63	0.43	0	0	0	0	0	0	0	0
9/16/2024 21:14	45601	WOOL_T1	0	0	0	0	0	0	-0.14	-0.18	1	1	0	1200	1200	0
9/16/2024 21:14	67602	WARW_T2	0	0	0	0	0	0	0.94	0.91	0	0	0	0	0	0
9/16/2024 21:14	61001	DONV_T1	0	0	0	0	0	0	0.29	0.2	0	0	0	0	0	0
9/16/2024 21:14	60101	COCA_T1	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
9/16/2024 21:14	56501	ROCK_T2	2	2	0	0.9	0.8	-0.1	0.18	0.14	0	0	0	0	0	0
9/16/2024 21:14	44502	HAMI_T2	1	1	0	2.9	3.2	0.3	-0.81	-0.76	0	0	0	0	0	0
9/16/2024 21:14	46101	MACI_T2	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
9/16/2024 21:14	53501	EVIL_T2	2	2	0	0.9	0.85	-0.05	-0.01	-0.01	1	1	0	900	900	0
9/16/2024 21:14	24901	WHHA_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
9/16/2024 21:14	44902	SCOT_T2	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
9/16/2024 21:14	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/16/2024 21:14	65205	PRIN_T1	1	23	22	2.1	0.21	-1.89	0	0	0	0	0	0	0	0
9/16/2024 21:14	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/16/2024 21:14	66901	SHIL_T2	78	181	103	0.14	0.19	0.05	0	0	0	0	0	0	0	0
9/16/2024 21:14	65003	NEFF_T2	6	0	-6	0.25	0	-0.25	0	0	0	0	0	0	0	0
9/16/2024 21:14	44203	POIN_T2	0	0	0	0	0	0	-0.37	-0.21	2	2	0	2100	2100	0
9/16/2024 21:14	66902	SHIL_T2	23	126	103	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/16/2024 21:14	66903	SHIL_T2	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
9/16/2024 21:14	24902	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:14	67803	WLAN_T1	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
9/16/2024 21:14	58402	MORO_T1	0	0	0	0	0	0	0	0.44	2	1	-1	1500	900	-600
9/16/2024 21:14	47401	PENS_T1	0	0	0	0	0	0	1.22	1.23	0	0	0	0	0	0
9/16/2024 21:14	59003	MIFF_T1	0	0	0	0	0	0	0.49	0.43	0	0	0	0	0	0
9/16/2024 21:14	67401	WAKE_T2	0	1	1	0	0.1	0.1	-0.85	-0.88	0	0	0	0	0	0
9/16/2024 21:14	40802	EXCH_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
9/16/2024 21:15	67002	STHI_T2	0	0	0	0	0	0	2.61	2.37	0	0	0	0	0	0
9/16/2024 21:15	44801	EDAN_T2	203	179	-24	0.54	0.45	-0.09	-1.63	-1.63	0	0	0	0	0	0
9/16/2024 21:15	53501	EVIL_T2	1	2	1	1.4	0.85	-0.55	0	0	0	0	0	0	0	0
9/16/2024 21:15	43304	WATS_T2	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
9/16/2024 21:15	67602	WARW_T2	0	0	0	0	0	0	0.94	0.91	0	0	0	0	0	0
9/16/2024 21:15	47401	PENS_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
9/16/2024 21:15	43202	MVIL_T2	0	0	0	0	0	0	-0.67	-0.7	0	0	0	0	0	0
9/16/2024 21:15	59101	WALK_T2	0	0	0	0	0	0	0.97	0.84	1	1	0	600	600	0
9/16/2024 21:15	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/16/2024 21:15	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/16/2024 21:15	57205	ROSS_T1	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
9/16/2024 21:15	24702	FLND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:15	44203	POIN_T2	0	0	0	0	0	0	-0.37	-0.21	2	2	0	2100	2100	0
9/16/2024 21:15	47102	MARL_T2	3	7	4	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/16/2024 21:15	47103	MARL_T2	0	0	0	0	0	0	-0.46	-0.57	0	0	0	0	0	0
9/16/2024 21:15	53903	HALI_T2	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
9/16/2024 21:15	56501	ROCK_T2	2	2	0	0.6	0.8	0.2	0.18	0.14	0	0	0	0	0	0
9/16/2024 21:15	53902	HALI_T2	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0	0
9/16/2024 21:15	43302	WATS_T2	4	4	0	0.63	0.3	-0.33	0	0	0	0	0	0	0	0
9/16/2024 21:15	67001	STHI_T2	24	85	61	0.13	0.12	-0.01	0.23	0.23	0	0	0	0	0	0
9/16/2024 21:15	40801	EXCH_T2	0	0	0	0	0	0	1.78	1.75	0	0	0	0	0	0
9/16/2024 21:15	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 21:15	60701	BREC_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/16/2024 21:15	53901	HALI_T2	0	1	1	0	0.1	0.1	-0.12	-0.14	0	0	0	0	0	0
9/16/2024 21:15	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
9/16/2024 21:15	53502	EVIL_T2	0	0	0	0	0	0	-0.21	-0.26	1	1	0	600	600	0
9/16/2024 21:16	42802	SELI_T1	1	1	0	0.4	1	0.6	-3.51	-3.8	3	3	0	2700	2700	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/16/2024 21:16	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/16/2024 21:16	40701	FFLD_T1	67	69	2	0.55	0.59	0.04	0	0	0	0	0	0	0	0
9/16/2024 21:16	46102	MACI_T1	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0	0
9/16/2024 21:16	60101	COCA_T1	0	0	0	0	0	0	0.82	0.74	0	0	0	0	0	0
9/16/2024 21:16	58401	MORO_T1	0	0	0	0	0	0	-1.12	-1.14	1	1	0	600	600	0
9/16/2024 21:16	20403	ASHF_T2	0	0	0	0	0	0	0.21	0.16	0	0	0	0	0	0
9/16/2024 21:16	40703	FFLD_T1	4	4	0	0.68	0.68	0	0	0	0	0	0	0	0	0
9/16/2024 21:16	40902	JESH_T1	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
9/16/2024 21:16	64503	LAVI_T1	0	0	0	0	0	0	-0.42	-0.34	1	1	0	1200	1200	0
9/16/2024 21:16	67805	WLAN_T1	211	189	-22	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
9/16/2024 21:16	44505	HAMI_T2	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
9/16/2024 21:16	43302	WATS_T2	4	4	0	0.63	0.3	-0.33	0	0	0	0	0	0	0	0
9/16/2024 21:16	63305	GREE_T1	7	3	-4	0.1	0.1	0	0	0	0	0	0	0	0	0
9/16/2024 21:16	45602	WOOL_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
9/16/2024 21:16	55508	HERS_T2	2	2	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
9/16/2024 21:16	63501	HEID_TBK1-2	99	136	37	0.25	0.21	-0.04	-0.3	-0.34	1	1	0	900	900	0
9/16/2024 21:16	57401	SPAN_T1	2	34	32	0.7	0.19	-0.51	-0.68	-0.77	1	1	0	600	600	0
9/16/2024 21:16	61503	EPET_T1	0	0	0	0	0	0	-0.82	-0.8	0	0	0	0	0	0
9/16/2024 21:16	12701	MACU_T1	0	0	0	0	0	0	0.16	0.12	0	0	0	0	0	0
9/16/2024 21:16	63304	GREE_T1	1	2	1	0.1	0.1	0	-1.64	-1.66	0	0	0	0	0	0
9/16/2024 21:16	67803	WLAN_T1	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
9/16/2024 21:16	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/16/2024 21:16	44301	BEAV_T2	0	0	0	0	0	0	-0.45	-0.55	1	1	0	600	600	0
9/16/2024 21:16	40101	HUNT_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
9/16/2024 21:16	64802	MONE_T2	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
9/16/2024 21:16	44502	HAMI_T2	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
9/16/2024 21:16	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:16	62601	ENGL_T1	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
9/16/2024 21:16	40702	FFLD_T1	124	134	10	0.37	0.41	0.04	0	0	0	0	0	0	0	0
9/16/2024 21:16	67605	WARW_T1	23	22	-1	0.51	0.52	0.01	-1.04	-1.05	0	0	0	0	0	0
9/16/2024 21:16	57403	SPAN_T1	9	19	10	0.22	0.27	0.05	0	0	0	0	0	0	0	0
9/16/2024 21:16	67201	TEHI_T1	0	0	0	0	0	0	0.56	0.24	1	1	0	900	900	0
9/16/2024 21:16	42903	MIDD_T2	2	2	0	0.8	0.6	-0.2	-0.46	-0.34	0	0	0	0	0	0
9/16/2024 21:16	55405	SHER_T1	6	29	23	1.08	0.39	-0.69	0	0	0	0	0	0	0	0
9/16/2024 21:16	59101	WALK_T2	0	0	0	0	0	0	0.97	0.84	1	1	0	600	600	0
9/16/2024 21:16	42902	MIDD_T2	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
9/16/2024 21:16	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/16/2024 21:16	67602	WARW_T2	0	0	0	0	0	0	0.94	0.91	0	0	0	0	0	0
9/16/2024 21:16	43202	MVIL_T2	0	0	0	0	0	0	-0.67	-0.7	0	0	0	0	0	0
9/16/2024 21:17	60101	COCA_T1	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
9/16/2024 21:17	64902	MILL_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
9/16/2024 21:17	67002	STHI_T2	0	0	0	0	0	0	0.87	0.79	0	0	0	0	0	0
9/16/2024 21:17	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
9/16/2024 21:17	40801	EXCH_T2	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
9/16/2024 21:17	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 21:17	52004	LING_T2	2	2	0	5.8	5.95	0.15	0.48	0.4	0	0	0	0	0	0
9/16/2024 21:17	67703	WERN_T2	0	0	0	0	0	0	0.01	-0.05	1	1	0	900	900	0
9/16/2024 21:17	56504	ROCK_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
9/16/2024 21:17	52002	LING_T2	0	1	1	0	0.4	0.4	0.12	0.05	0	0	0	0	0	0
9/16/2024 21:17	42201	SHEN_T2	0	1	1	0	0.1	0.1	0.1	0.08	1	1	0	600	600	0
9/16/2024 21:17	67605	WARW_T1	23	22	-1	0.51	0.52	0.01	-1.04	-1.05	0	0	0	0	0	0
9/16/2024 21:17	44801	EDAN_T2	203	179	-24	0.54	0.45	-0.09	0	0	0	0	0	0	0	0
9/16/2024 21:17	65802	RTWN_T2	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
9/16/2024 21:17	46001	BERW_T1	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
9/16/2024 21:17	46203	DANV_T2	1	1	0	8.3	8.1	-0.2	-0.64	-0.66	0	0	0	0	0	0
9/16/2024 21:17	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/16/2024 21:17	40902	JESH_T1	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
9/16/2024 21:17	46506	LOHA_T1	4	4	0	3.6	4	0.4	0	0	0	0	0	0	0	0
9/16/2024 21:17	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/16/2024 21:17	46504	LOHA_T1	3	28	25	1	0.25	-0.75	0	0	0	0	0	0	0	0
9/16/2024 21:17	43801	SWIL_T1	2	8	6	3.2	0.89	-2.31	0	0	0	0	0	0	0	0
9/16/2024 21:17	67001	STHI_T2	24	85	61	0.13	0.12	-0.01	0.47	0.47	0	0	0	0	0	0
9/16/2024 21:17	47401	PENS_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
9/16/2024 21:17	52006	LING_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/16/2024 21:17	43802	SWIL_T1	0	0	0	0	0	0	-0.01	0	1	1	0	600	600	0
9/16/2024 21:17	44802	EDAN_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
9/16/2024 21:17	56501	ROCK_T2	2	2	0	0.6	0.8	0.2	0.18	0.14	0	0	0	0	0	0
9/16/2024 21:18	47001	HUGH_T2	3	7	4	9	4.13	-4.87	-1.24	-1.37	0	0	0	0	0	0
9/16/2024 21:18	67605	WARW_T1	23	22	-1	0.51	0.52	0.01	-1.04	-1.05	0	0	0	0	0	0
9/16/2024 21:18	44801	EDAN_T2	203	179	-24	0.54	0.45	-0.09	-1.63	-1.63	0	0	0	0	0	0
9/16/2024 21:18	58202	NEWV_T1	0	8	8	0	0.34	0.34	0.46	0.33	0	0	0	0	0	0
9/16/2024 21:18	47002	HUGH_T2	2	9	7	0.1	0.28	0.18	0	0	0	0	0	0	0	0
9/16/2024 21:18	60501	NMAN_T2	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/16/2024 21:18	64503	LAVI_T1	0	0	0	0	0	0	-0.42	-0.34	1	1	0	1200	1200	0
9/16/2024 21:18	53501	EVIL_T2	1	2	1	1.4	0.85	-0.55	-0.01	-0.01	1	1	0	900	900	0
9/16/2024 21:18	42802	SELI_T1	1	1	0	0.4	1	0.6	-1.17	-1.27	1	1	0	900	900	0
9/16/2024 21:18	42903	MIDD_T2	2	2	0	0.8	0.6	-0.2	-0.46	-0.34	0	0	0	0	0	0
9/16/2024 21:18	40201	BEGA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/16/2024 21:18	63302	GREE_T1	0	0	0	0	0	0	0.5	0.43	0	0	0	0	0	0
9/16/2024 21:18	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:18	63305	GREE_T1	7	3	-4	0.1	0.1	0	0	0	0	0	0	0	0	0
9/16/2024 21:18	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:18	40902	JESH_T1	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
9/16/2024 21:18	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 21:18	66505	SMAN_T2	3	3	0	0.43	0.13	-0.3	0	0	0	0	0	0	0	0
9/16/2024 21:18	63304	GREE_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/16/2024 21:18	45802	HEGI_T2	30	41	11	0.54	0.72	0.18	0.73	0.63	0	0	0	0	0	0
9/16/2024 21:18	66502	SMAN_T2	0	0	0	0	0	0	-0.03	0.06	0	0	0	0	0	0
9/16/2024 21:19	41002	LAUR_T2	4	32	28	0.73	0.25	-0.48	0.09	0.06	0	0	0	0	0	0
9/16/2024 21:19	57403	SPAN_T1	9	19	10	0.22	0.27	0.05	0.24	0.18	0	0	0	0	0	0
9/16/2024 21:19	44801	EDAN_T2	203	179	-24	0.54	0.45	-0.09	0	0	0	0	0	0	0	0
9/16/2024 21:19	42902	MIDD_T2	0	0	0	0	0	0	-0.87	-0.92	0	0	0	0	0	0
9/16/2024 21:19	52006	LING_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/16/2024 21:19	58401	MORO_T1	0	0	0	0	0	0	-2.24	-2.28	2	2	0	1200	1200	0
9/16/2024 21:19	52004	LING_T2	2	2	0	5.8	5.95	0.15	0.48	0.4	0	0	0	0	0	0
9/16/2024 21:19	53903	HALI_T2	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
9/16/2024 21:19	46203	DANV_T2	1	1	0	8.3	8.1	-0.2	-0.64	-0.66	0	0	0	0	0	0
9/16/2024 21:19	43304	WATS_T2	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
9/16/2024 21:19	58402	MORO_T1	0	0	0	0	0	0	0	0.44	2	1	-1	1500	900	-600
9/16/2024 21:19	42802	SELI_T1	1	1	0	0.4	1	0.6	-1.17	-1.27	1	1	0	900	900	0
9/16/2024 21:19	53501	EVIL_T2	1	2	1	1.4	0.85	-0.55	-0.01	-0.01	2	2	0	1800	1800	0
9/16/2024 21:19	57401	SPAN_T1	2	34	32	0.7	0.19	-0.51	-0.68	-0.77	1	1	0	600	600	0
9/16/2024 21:19	42903	MIDD_T2	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
9/16/2024 21:19	53902	HALI_T2	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0	0
9/16/2024 21:19	43302	WATS_T2	4	4	0	0.63	0.3	-0.33	0	0	0	0	0	0	0	0
9/16/2024 21:19	52002	LING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/16/2024 21:19	41001	LAUR_T2	32	76	44	0.11	0.26	0.15	0	0	0	0	0	0	0	0
9/16/2024 21:19	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/16/2024 21:19	53901	HALI_T2	0	1	1	0	0.1	0.1	-0.06	-0.07	0	0	0	0	0	0
9/16/2024 21:19	44802	EDAN_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
9/16/2024 21:20	44801	EDAN_T2	203	179	-24	0.54	0.45	-0.09	0	0	0	0	0	0	0	0
9/16/2024 21:20	41901	REED_T1	3	3	0	0.13	0.2	0.07	0	0	0	0	0	0	0	0
9/16/2024 21:20	40801	EXCH_T2	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
9/16/2024 21:20	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:20	56501	ROCK_T2	2	2	0	0.6	0.8	0.2	0.18	0.14	0	0	0	0	0	0
9/16/2024 21:20	55002	NEWP_T1	6	6	0	0.63	0.78	0.15	0	0	0	0	0	0	0	0
9/16/2024 21:20	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:20	55001	NEWP_T1	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
9/16/2024 21:20	44802	EDAN_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
9/16/2024 21:20	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 21:20	41902	REED_T1	0	0	0	0	0	0	1.04	1.08	0	0	0	0	0	0
9/16/2024 21:20	67805	WLAN_T1	211	189	-22	0.17	0.16	-0.01	-1.4	-1.38	0	0	0	0	0	0
9/16/2024 21:20	61502	EPET_T1	0	0	0	0	0	0	-0.72	-0.8	0	0	0	0	0	0
9/16/2024 21:21	21501	CEAV_T2	0	0	0	0	0	0	-0.26	-0.27	1	1	0	1200	1200	0
9/16/2024 21:21	41901	REED_T1	3	3	0	0.13	0.2	0.07	0	0	0	0	0	0	0	0
9/16/2024 21:21	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:21	64305	LINC_T1	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
9/16/2024 21:21	53601	DALM_T2	1	1	0	0.4	0.5	0.1	-0.01	0.3	0	0	0	0	0	0
9/16/2024 21:21	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 21:21	41902	REED_T1	0	0	0	0	0	0	1.08	1.07	0	0	0	0	0	0
9/16/2024 21:21	40902	JESH_T1	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
9/16/2024 21:22	49804	UNIV_T1	0	0	0	0	0	0	-0.59	-0.65	0	0	0	0	0	0
9/16/2024 21:22	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/16/2024 21:22	49803	UNIV_T1	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
9/16/2024 21:22	51306	WIND_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
9/16/2024 21:22	67602	WARW_T2	0	0	0	0	0	0	0.91	0.86	0	0	0	0	0	0
9/16/2024 21:23	41901	REED_T1	3	3	0	0.13	0.2	0.07	0	0	0	0	0	0	0	0
9/16/2024 21:23	44301	BEAV_T2	0	0	0	0	0	0	-1.11	0.02	2	2	0	1200	1200	0
9/16/2024 21:23	59101	WALK_T2	0	0	0	0	0	0	0.84	0.76	1	1	0	600	600	0
9/16/2024 21:23	63501	HEID_TBK1-2	99	136	37	0.25	0.21	-0.04	-0.34	-0.28	1	1	0	900	900	0
9/16/2024 21:23	58401	MORO_T1	0	0	0	0	0	0	-1.14	-1.15	1	1	0	600	600	0
9/16/2024 21:23	55105	WERT_T1	0	0	0	0	0	0	-0.3	-0.36	1	1	0	900	900	0
9/16/2024 21:24	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:25	47203	FAXO_T2	0	0	0	0	0	0	-1.43	-1.46	1	1	0	1200	1200	0
9/16/2024 21:25	47201	FAXO_T2	1	1	0	5.6	0	-5.6	0	0	0	0	0	0	0	0
9/16/2024 21:26	63501	HEID_TBK1-2	99	136	37	0.25	0.21	-0.04	-0.34	-0.28	1	1	0	900	900	0
9/16/2024 21:31	67001	STHI_T2	45	147	102	0.12	0.13	0.01	0	0	0	0	0	0	0	0
9/16/2024 21:31	67002	STHI_T2	0	0	0	0	0	0	0.79	0.77	0	0	0	0	0	0
9/16/2024 21:31	61801	EELI_T2	0	0	0	0	0	0	-0.81	-0.86	1	1	0	600	600	0
9/16/2024 21:33	47901	HRDG_T1	0	0	0	0	0	0	1.15	0.81	1	1	0	1200	1200	0
9/16/2024 21:34	65207	PRIN_T4	1	1	0	1.1	1.2	0.1	0	0	1	1	0	1200	1200	0
9/16/2024 21:34	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/16/2024 21:34	44801	EDAN_T2	139	183	44	0.43	0.5	0.07	0	0	0	0	0	0	0	0
9/16/2024 21:34	44802	EDAN_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
9/16/2024 21:34	40801	EXCH_T2	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
9/16/2024 21:36	28102	TWLA_T2	15	15	0	0.48	0.51	0.03	0.22	0.2	0	0	0	0	0	0
9/16/2024 21:38	60101	COCA_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
9/16/2024 21:49	40101	HUNT_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
9/16/2024 21:52	15702	TANN_T2	82	116	34	0.21	0.21	0	-0.43	-0.43	0	0	0	0	0	0
9/16/2024 21:52	15703	TANN_T2	5	5	0	1	1.02	0.02	0	0	0	0	0	0	0	0
9/16/2024 21:53	40801	EXCH_T2	0	0	0	0	0	0	0.83	0.83	0	0	0	0	0	0
9/16/2024 21:54	44301	BEAV_T2	0	0	0	0	0	0	0.02	-0.39	1	1	0	600	600	0
9/16/2024 21:59	57401	SPAN_T1	34	44	10	0.19	0.19	0	-1.06	-0.81	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/16/2024 21:59	57403	SPAN_T1	19	27	8	0.27	0.3	0.03	0	0	0	0	0	0	0	0
9/16/2024 22:00	62607	ENGL_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	300	300	0
9/16/2024 22:02	56501	ROCK_T2	2	2	0	0.8	1	0.2	0.1	0.06	0	0	0	0	0	0
9/16/2024 22:06	44301	BEAV_T2	0	0	0	0	0	0	0.02	-0.39	1	1	0	600	600	0
9/16/2024 22:45	22905	HARW_T1	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
9/16/2024 22:46	47901	HRDG_T1	0	0	0	0	0	0	0.97	0.88	1	1	0	1200	1200	0
9/16/2024 22:55	40802	EXCH_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
9/16/2024 23:01	10801	CHHI_T1	0	0	0	0	0	0	-0.82	-0.83	1	1	0	900	900	0
9/17/2024 0:28	66505	SMAN_T2	0	0	0	0	0	0	0.13	-0.01	1	1	0	900	900	0
9/17/2024 1:39	25501	MADI_T1	4	41	37	0.7	0.18	-0.52	0	0	0	0	0	0	0	0
9/17/2024 1:39	25503	MADI_T1	852	936	84	0.61	0.73	0.12	-1.15	-1.16	0	0	0	0	0	0
9/17/2024 7:52	15703	TANN_T2	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
9/17/2024 7:52	15702	TANN_T2	31	0	-31	0.12	0	-0.12	-0.51	-0.46	0	0	0	0	0	0
9/17/2024 7:53	22002	BOHE_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
9/17/2024 7:53	67505	WEWI_T1	0	0	0	0	0	0	-0.11	-0.16	1	1	0	900	900	0
9/17/2024 7:53	22003	BOHE_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/17/2024 7:57	62602	ENGL_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
9/17/2024 7:57	53601	DALM_T2	1	1	0	0.8	1.4	0.6	-0.34	-0.59	1	1	0	900	900	0
9/17/2024 8:02	20801	LOPO_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
9/17/2024 8:09	22002	BOHE_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
9/17/2024 8:09	22003	BOHE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/17/2024 8:09	46001	BERW_T1	0	0	0	0	0	0	0.85	1.19	0	0	0	0	0	0
9/17/2024 8:11	61701	ELIZ_T1	1	1	0	3.6	4.3	0.7	0.47	0.61	0	0	0	0	0	0
9/17/2024 8:12	43802	SWIL_T1	0	0	0	0	0	0	-0.37	-0.44	2	2	0	1200	1200	0
9/17/2024 8:12	43801	SWIL_T1	14	5	-9	0.57	1.2	0.63	0	0	0	0	0	0	0	0
9/17/2024 8:14	53502	EVIL_T2	0	0	0	0	0	0	0.21	0.57	2	2	0	1200	1200	0
9/17/2024 8:14	53501	EVIL_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
9/17/2024 8:17	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
9/17/2024 8:24	51603	DUKE_T1	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
9/17/2024 8:25	51603	DUKE_T1	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
9/17/2024 8:26	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 8:27	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 8:28	51603	DUKE_T1	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
9/17/2024 8:29	46803	HEPB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/17/2024 8:29	46801	HEPB_T2	3	2	-1	0.73	0.95	0.22	0.51	0.54	0	0	0	0	0	0
9/17/2024 8:30	50501	MECH_T1	4	4	0	0.75	1	0.25	0	0	0	0	0	0	0	0
9/17/2024 8:30	50502	MECH_T1	1	1	0	2.3	2.5	0.2	-0.29	-0.32	2	2	0	2100	2100	0
9/17/2024 8:31	14201	EALL_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
9/17/2024 8:32	55001	NEWP_T1	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
9/17/2024 8:32	55002	NEWP_T1	7	7	0	0.91	0.91	0	-0.25	-0.24	0	0	0	0	0	0
9/17/2024 8:33	15203	SFAR_T2	0	2	2	0	0.2	0.2	-1.3	-1.22	0	0	0	0	0	0
9/17/2024 8:33	55101	WERT_T1	0	0	0	0	0	0	-1.46	-1.63	3	3	0	2400	2400	0
9/17/2024 8:33	15604	NSTR_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
9/17/2024 8:34	55002	NEWP_T1	7	7	0	0.91	0.91	0	-0.25	-0.24	0	0	0	0	0	0
9/17/2024 8:35	55002	NEWP_T1	7	7	0	0.91	0.91	0	0	0	0	0	0	0	0	0
9/17/2024 8:35	15603	NSTR_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
9/17/2024 8:35	15601	NSTR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/17/2024 8:35	55001	NEWP_T1	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
9/17/2024 8:36	55002	NEWP_T1	7	7	0	0.91	0.91	0	0	0	0	0	0	0	0	0
9/17/2024 8:36	55102	WERT_T2	0	0	0	0	0	0	-0.69	-0.67	2	2	0	1200	1200	0
9/17/2024 8:36	55001	NEWP_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
9/17/2024 8:37	15203	SFAR_T2	0	2	2	0	0.2	0.2	-1.22	-1.22	0	0	0	0	0	0
9/17/2024 8:37	67503	WEWI_T2	1	1	0	8.8	9.2	0.4	-0.2	-0.15	0	0	0	0	0	0
9/17/2024 8:38	67503	WEWI_T2	1	1	0	8.8	9.2	0.4	-0.2	-0.15	0	0	0	0	0	0
9/17/2024 8:38	55102	WERT_T2	0	0	0	0	0	0	-0.69	-0.67	2	2	0	1200	1200	0
9/17/2024 8:41	45501	DERR_T2	1	1	0	0.3	0.6	0.3	0.34	0.36	2	2	0	1800	1800	0
9/17/2024 8:42	40702	FFLD_T1	1	6	5	0.2	0.22	0.02	-0.2	-0.52	1	1	0	1200	1200	0
9/17/2024 8:42	40701	FFLD_T1	28	32	4	0.25	0.48	0.23	0	0	0	0	0	0	0	0
9/17/2024 8:42	40703	FFLD_T1	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
9/17/2024 8:43	63501	HEID_TBK1-2	48	48	0	0.7	0.45	-0.25	0.06	0.08	1	1	0	900	900	0
9/17/2024 8:43	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/17/2024 8:44	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 8:48	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 8:49	50105	HARR_T3	6	6	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
9/17/2024 8:49	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 8:49	50103	HARR_T3	2	2	0	0.25	0.7	0.45	0	0	0	0	0	0	0	0
9/17/2024 8:49	50107	HARR_T3	1	2	1	6.1	6.3	0.2	0	0	0	0	0	0	0	0
9/17/2024 8:52	67503	WEWI_T2	1	1	0	9.2	9.1	-0.1	-0.15	-0.2	0	0	0	0	0	0
9/17/2024 8:52	57403	SPAN_T1	9	31	22	0.13	0.24	0.11	0.03	0	0	0	0	0	0	0
9/17/2024 8:52	57401	SPAN_T1	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/17/2024 8:53	67703	WERN_T2	0	0	0	0	0	0	-0.1	-0.08	1	1	0	900	900	0
9/17/2024 8:54	43301	WATS_T2	1	1	0	0.8	1.3	0.5	-0.66	-0.66	1	1	0	900	900	0
9/17/2024 8:54	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 8:55	53502	EVIL_T2	0	0	0	0	0	0	0.59	0.35	2	2	0	1200	1200	0
9/17/2024 8:55	53501	EVIL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/17/2024 8:56	41502	FAIR_T2	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
9/17/2024 8:56	67503	WEWI_T2	1	1	0	9.2	9.1	-0.1	-0.15	-0.2	0	0	0	0	0	0
9/17/2024 8:56	41503	FAIR_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/17/2024 8:57	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
9/17/2024 8:59	57001	WHHI_T2	0	0	0	0	0	0	-2.41	-2.4	1	1	0	900	900	0
9/17/2024 9:00	27201	YATE_T1	0	0	0	0	0	0	-21.6	-21.6	0	0	0	0	0	0
9/17/2024 9:01	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 9:02	40602	PIGR_T1	1	1	0	0.8	0.7	-0.1	-0.45	-0.53	1	1	0	600	600	0
9/17/2024 9:02	40601	PIGR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/17/2024 9:02	27201	YATE_T1	0	0	0	21.6	0	0	-21.6	-21.6	0	0	0	0	0	0
9/17/2024 9:05	50202	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 9:05	50105	HARR_T3	6	6	0	5.8	5.92	0.12	0	0	0	0	0	0	0	0
9/17/2024 9:05	50107	HARR_T3	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
9/17/2024 9:05	50103	HARR_T3	2	2	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
9/17/2024 9:05	65702	RVIL_T2	0	0	0	0	0	0	-0.93	-0.86	1	1	0	600	600	0
9/17/2024 9:05	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 9:06	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.41	0	0	0	0	0	0
9/17/2024 9:06	56501	ROCK_T2	2	3	1	0.9	0.67	-0.23	0.1	0.15	0	0	0	0	0	0
9/17/2024 9:06	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
9/17/2024 9:07	14605	SWHI_T1	0	0	0	0	0	0	1.26	1.25	1	1	0	1200	1200	0
9/17/2024 9:07	56501	ROCK_T2	2	3	1	0.9	0.67	-0.23	0.03	0.05	0	0	0	0	0	0
9/17/2024 9:07	65004	NEFF_T2	0	0	0	0	0	0	-0.5	-0.48	0	0	0	0	0	0
9/17/2024 9:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 9:10	45901	AUBU_T1	0	0	0	0	0	0	1.61	1.68	0	0	0	0	0	0
9/17/2024 9:11	62605	ENGL_T1	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
9/17/2024 9:12	62605	ENGL_T1	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
9/17/2024 9:13	62605	ENGL_T1	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
9/17/2024 9:15	54201	PENN_T1	10	10	0	1.19	1.2	0.01	0	0	0	0	0	0	0	0
9/17/2024 9:15	54203	PENN_T1	18	18	0	1.07	1.18	0.11	0	0	0	0	0	0	0	0
9/17/2024 9:15	54601	SUMM_T2	10	12	2	0.24	0.5	0.26	-1.75	-1.63	2	2	0	2100	2100	0
9/17/2024 9:17	50105	HARR_T3	6	6	0	5.92	6.02	0.1	0	0	0	0	0	0	0	0
9/17/2024 9:17	50202	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 9:17	50103	HARR_T3	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/17/2024 9:17	50107	HARR_T3	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
9/17/2024 9:18	55002	NEWP_T1	6	6	0	1.28	1.25	-0.03	-0.26	-0.26	0	0	0	0	0	0
9/17/2024 9:19	65901	SAKR_T2	1	1	0	7.5	7.6	0.1	0	0	0	0	0	0	0	0
9/17/2024 9:19	65904	SAKR_T2	0	0	0	0	0	0	-2.04	-2	3	3	0	1500	1500	0
9/17/2024 9:22	67203	TEHI_T1	0	1	1	0	0.1	0.1	2.76	2.89	3	3	0	2100	2100	0
9/17/2024 9:23	44301	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/17/2024 9:25	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 9:30	25402	LAHA_T2	0	0	0	0	0	0	-0.72	-0.6	0	0	0	0	0	0
9/17/2024 9:30	54502	ENOL_T2	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
9/17/2024 9:30	54501	ENOL_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
9/17/2024 9:30	63501	HEID_TBK1-2	47	48	1	0.72	0.93	0.21	0.18	0.17	1	1	0	900	900	0
9/17/2024 9:30	46506	LOHA_T1	3	3	0	5.67	5.6	-0.07	0	0	0	0	0	0	0	0
9/17/2024 9:30	46501	LOHA_T1	0	1	1	0	0	0	0.17	0.12	1	1	0	1200	1200	0
9/17/2024 9:30	46504	LOHA_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/17/2024 9:30	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
9/17/2024 9:30	54506	ENOL_T2	0	0	0	0	0	0	0.65	0.73	1	1	0	600	600	0
9/17/2024 9:31	11507	FREE_T2	0	0	0	0	0	0	1.08	0.86	0	0	0	0	0	0
9/17/2024 9:33	54203	PENN_T1	18	18	0	1.17	1.09	-0.08	0	0	0	0	0	0	0	0
9/17/2024 9:33	63501	HEID_TBK1-2	47	48	1	0.72	0.93	0.21	0.18	0.17	1	1	0	900	900	0
9/17/2024 9:33	54201	PENN_T1	10	10	0	1.2	0.83	-0.37	0	1.34	0	0	0	0	0	0
9/17/2024 9:34	51202	MTON_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
9/17/2024 9:35	67002	STHI_T2	2	2	0	0.1	0.15	0.05	0.81	0.83	0	0	0	0	0	0
9/17/2024 9:35	67001	STHI_T2	17	3	-14	0.12	0.27	0.15	0	0	0	0	0	0	0	0
9/17/2024 9:37	57401	SPAN_T1	2	2	0	0.5	0.6	0.1	-0.61	-0.79	1	1	0	600	600	0
9/17/2024 9:37	57403	SPAN_T1	10	57	47	0.15	0.19	0.04	0	0	0	0	0	0	0	0
9/17/2024 9:42	67605	WARW_T1	9	10	1	0.37	0.31	-0.06	-1.03	-1.02	0	0	0	0	0	0
9/17/2024 9:43	53501	EVIL_T2	1	1	0	0.1	0.1	0	-0.01	-0.01	2	2	0	1500	1500	0
9/17/2024 9:44	53501	EVIL_T2	1	1	0	0.1	0.1	0	-0.01	-0.01	2	2	0	1500	1500	0
9/17/2024 9:44	46102	MACI_T1	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
9/17/2024 9:45	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	-0.02	-0.02	6	6	0	4500	4500	0
9/17/2024 9:46	63501	HEID_TBK1-2	47	48	1	0.95	0.66	-0.29	0.17	0.17	1	1	0	900	900	0
9/17/2024 9:48	15604	NSTR_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
9/17/2024 9:48	63501	HEID_TBK1-2	47	48	1	0.95	0.66	-0.29	0.17	0.17	1	1	0	900	900	0
9/17/2024 9:49	54202	PENN_T2	0	0	0	0	0	0	0.76	0.8	0	0	0	0	0	0
9/17/2024 9:49	57203	ROSS_T1	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
9/17/2024 9:54	20401	ASHF_T2	6	6	0	0.22	0.28	0.06	0	0	0	0	0	0	0	0
9/17/2024 9:54	20403	ASHF_T2	1	5	4	0.6	0.28	-0.32	0.47	0.57	0	0	0	0	0	0
9/17/2024 9:54	55105	WERT_T1	0	0	0	0	0	0	-0.43	-0.47	1	1	0	900	900	0
9/17/2024 9:56	62605	ENGL_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
9/17/2024 9:56	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 9:57	20401	ASHF_T2	6	6	0	0.22	0.28	0.06	0	0	0	0	0	0	0	0
9/17/2024 9:57	20403	ASHF_T2	1	5	4	0.6	0.28	-0.32	0.47	0.57	0	0	0	0	0	0
9/17/2024 9:59	62605	ENGL_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
9/17/2024 9:59	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 10:00	60502	NMAN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 10:00	14605	SWHI_T1	0	0	0	0	0	0	1.35	1.46	1	1	0	1200	1200	0
9/17/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
9/17/2024 10:00	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 10:00	52403	GRPA_T2	0	1	1	0	0.2	0.2	-0.07	-0.04	0	0	0	0	0	0
9/17/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	-0.05	-1.07	0	0	0	0	0	0
9/17/2024 10:00	62605	ENGL_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
9/17/2024 10:00	28805	LAKE_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
9/17/2024 10:00	13503	MCMI_T2	1	1	0	0.1	0.4	0.3	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 10:00	15604	NSTR_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
9/17/2024 10:00	15203	SFAR_T2	1	1	0	0.3	0.1	-0.2	-1.1	-1.12	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/17/2024 10:00	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 10:00	67503	WEWI_T2	1	1	0	8.8	8.9	0.1	-0.06	-0.11	0	0	0	0	0	0
9/17/2024 10:00	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 10:00	55102	WERT_T2	0	0	0	0	0	0	-0.64	-0.61	2	2	0	1200	1200	0
9/17/2024 10:01	46503	LOHA_T1	0	0	0	0	0	0	-1.22	-1.22	0	0	0	0	0	0
9/17/2024 10:01	46506	LOHA_T1	3	3	0	5.43	5.43	0	0	0	0	0	0	0	0	0
9/17/2024 10:02	48302	ORWI_T2	2	2	0	0.85	0.8	-0.05	0.1	0.12	0	0	0	0	0	0
9/17/2024 10:03	54206	PENN_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
9/17/2024 10:04	66903	SHIL_T2	0	0	0	0	0	0	-0.84	-0.82	0	0	0	0	0	0
9/17/2024 10:05	66504	SMAN_T2	0	0	0	0	0	0	-0.08	-1.37	0	1	1	0	1200	1200
9/17/2024 10:06	66903	SHIL_T2	0	0	0	0	0	0	-0.84	-0.82	0	0	0	0	0	0
9/17/2024 10:07	66504	SMAN_T2	0	0	0	0	0	0	-2.73	-2.73	2	2	1	2400	2400	0
9/17/2024 10:08	64602	LEOL_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
9/17/2024 10:08	20401	ASHF_T2	5	6	1	0.28	0.35	0.07	0	0	0	0	0	0	0	0
9/17/2024 10:08	55102	WERT_T2	0	0	0	0	0	0	-0.61	-0.58	2	2	0	1200	1200	0
9/17/2024 10:08	45902	AUBU_T1	1	0	-1	0.4	0	-0.4	-0.48	-0.47	1	1	0	600	600	0
9/17/2024 10:08	66504	SMAN_T2	0	0	0	0	0	0	-2.73	-2.73	2	2	0	2400	2400	0
9/17/2024 10:08	67804	WLAN_T1	1	2	1	0.1	0.3	0.2	-2.15	-2.1	0	0	0	0	0	0
9/17/2024 10:08	20403	ASHF_T2	5	7	2	0.26	0.41	0.15	0.57	0.52	0	0	0	0	0	0
9/17/2024 10:08	44203	POIN_T2	0	0	0	0	0	0	0.46	0.39	2	2	0	2100	2100	0
9/17/2024 10:09	67804	WLAN_T1	1	2	1	0.1	0.3	0.2	-2.15	-2.1	0	0	0	0	0	0
9/17/2024 10:09	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 10:09	43304	WATS_T2	0	0	0	0	0	0	-0.71	-0.44	0	0	0	0	0	0
9/17/2024 10:09	43301	WATS_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/17/2024 10:09	67803	WLAN_T1	0	0	0	0	0	0	-0.81	-0.78	0	0	0	0	0	0
9/17/2024 10:10	67804	WLAN_T1	1	2	1	0.1	0.3	0.2	-1.08	-1.05	0	0	0	0	0	0
9/17/2024 10:10	20403	ASHF_T2	5	7	2	0.26	0.41	0.15	1.15	1.03	0	0	0	0	0	0
9/17/2024 10:10	20401	ASHF_T2	5	6	1	0.28	0.35	0.07	0	0	0	0	0	0	0	0
9/17/2024 10:10	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 10:10	67803	WLAN_T1	0	0	0	0	0	0	-0.81	-0.78	0	0	0	0	0	0
9/17/2024 10:10	55105	WERT_T1	0	0	0	0	0	0	-0.47	-0.43	1	1	0	900	900	0
9/17/2024 10:10	66504	SMAN_T2	0	0	0	0	0	0	-1.37	-1.36	1	1	0	1200	1200	0
9/17/2024 10:11	67804	WLAN_T1	1	2	1	0.1	0.3	0.2	-2.15	-2.1	0	0	0	0	0	0
9/17/2024 10:11	67801	WLAN_T1	0	0	0	0	0	0	0.27	0.37	0	0	0	0	0	0
9/17/2024 10:12	67804	WLAN_T1	1	2	1	0.1	0.3	0.2	-1.08	-1.05	0	0	0	0	0	0
9/17/2024 10:12	43304	WATS_T2	0	0	0	0	0	0	-1.42	-0.88	0	0	0	0	0	0
9/17/2024 10:12	67803	WLAN_T1	0	0	0	0	0	0	-1.62	-1.57	0	0	0	0	0	0
9/17/2024 10:12	43301	WATS_T2	1	1	0	0.1	0.5	0.4	0.34	-0.59	0	1	1	0	900	900
9/17/2024 10:13	53601	DALM_T2	1	1	0	0.4	0.8	0.4	-0.51	-0.49	1	1	0	900	900	0
9/17/2024 10:13	10801	OHII_T1	0	2	2	0	0.15	0.15	-0.61	-0.63	1	1	0	900	900	0
9/17/2024 10:16	52001	LING_T1	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
9/17/2024 10:16	55501	HERS_T1	0	52	52	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 10:16	55507	HERS_T1	0	0	0	0	0	0	0.37	0.42	0	0	0	0	0	0
9/17/2024 10:17	16402	MOPO_T1	0	0	0	0	0	0	0.68	0.77	0	0	0	0	0	0
9/17/2024 10:17	25402	LAHA_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
9/17/2024 10:20	25502	MADI_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/17/2024 10:20	25501	MADI_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
9/17/2024 10:20	64903	MILL_T2	0	0	0	0	0	0	0.31	0.25	0	0	0	0	0	0
9/17/2024 10:20	16402	MOPO_T1	0	0	0	0	0	0	0.68	0.77	0	0	0	0	0	0
9/17/2024 10:20	25503	MADI_T1	83	164	81	0.26	0.1	-0.16	-0.96	-1.05	0	0	0	0	0	0
9/17/2024 10:20	59101	WALK_T2	0	1	1	0	0	0	1.64	1.47	0	1	1	0	600	600
9/17/2024 10:21	59101	WALK_T2	0	1	1	0	0	0	1.47	1.65	0	1	1	0	600	600
9/17/2024 10:21	64903	MILL_T2	0	0	0	0	0	0	0.31	0.25	0	0	0	0	0	0
9/17/2024 10:23	45901	AUBU_T1	0	0	0	0	0	0	1.93	2.01	0	0	0	0	0	0
9/17/2024 10:24	20403	ASHF_T2	4	7	3	0.33	0.41	0.08	1.03	1.09	0	0	0	0	0	0
9/17/2024 10:24	20401	ASHF_T2	5	6	1	0.28	0.33	0.05	0	0	0	0	0	0	0	0
9/17/2024 10:25	66504	SMAN_T2	0	0	0	0	0	0	-1.36	-1.19	1	1	0	1200	1200	0
9/17/2024 10:25	67203	TEHI_T1	3	2	-1	1.3	1	-0.3	2.89	2.87	3	3	0	2100	2100	0
9/17/2024 10:26	59101	WALK_T2	0	1	1	0	0	0	1.47	1.65	1	1	0	600	600	0
9/17/2024 10:26	53501	EVIL_T2	0	3	3	0	0.33	0.33	-0.01	-0.01	2	2	0	1500	1500	0
9/17/2024 10:26	64204	KINZ_T1	1	3	2	1.2	0.5	-0.7	0	0	0	0	0	0	0	0
9/17/2024 10:26	64201	KINZ_T1	0	0	0	0	0	0	-0.33	-0.29	4	4	0	2100	2100	0
9/17/2024 10:26	64203	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 10:26	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/17/2024 10:27	61303	EARL_T1	0	0	0	0	0	0	0.75	0.78	0	0	0	0	0	0
9/17/2024 10:27	64201	KINZ_T1	0	0	0	0	0	0	-0.33	-0.29	4	4	0	2100	2100	0
9/17/2024 10:27	50107	HARR_T3	1	1	0	6.4	6	-0.4	0	0	0	0	0	0	0	0
9/17/2024 10:27	50105	HARR_T3	6	6	0	6.02	5.7	-0.32	0	0	0	0	0	0	0	0
9/17/2024 10:27	66502	SMAN_T2	0	0	0	0	0	0	0.31	0.38	0	0	0	0	0	0
9/17/2024 10:27	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/17/2024 10:27	64204	KINZ_T1	1	3	2	1.2	0.5	-0.7	0	0	0	0	0	0	0	0
9/17/2024 10:27	64203	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 10:27	50103	HARR_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/17/2024 10:27	53501	EVIL_T2	0	3	3	0	0.33	0.33	-0.02	-0.02	6	6	0	4500	4500	0
9/17/2024 10:27	50202	HARR_T3	0	0	0	0	0	0	-0.3	-0.27	0	0	0	0	0	0
9/17/2024 10:27	57505	LAWN_T3	0	4	4	0	0.2	0.2	0.64	0.64	0	0	0	0	0	0
9/17/2024 10:29	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/17/2024 10:29	55508	HERS_T2	2	2	0	0.95	1.5	0.55	-4.94	-4.9	2	2	0	2400	2400	0
9/17/2024 10:29	64203	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 10:29	64204	KINZ_T1	1	3	2	1.2	0.5	-0.7	0	0	0	0	0	0	0	0
9/17/2024 10:29	40101	HUNT_T2	1	1	0	0.4	0.3	-0.1	-0.39	-0.36	0	0	0	0	0	0
9/17/2024 10:29	64201	KINZ_T1	0	0	0	0	0	0	-0.33	-0.29	4	4	0	2100	2100	0
9/17/2024 10:30	53501	EVIL_T2	3	2	-1	0.23	0.55	0.32	-0.01	-0.01	2	2	0	1500	1500	0
9/17/2024 10:31	53502	EVIL_T2	0	0	0	0	0	0	0.65	0.39	2	2	0	1200	1200	0
9/17/2024 10:31	53501	EVIL_T2	3	2	-1	0.23	0.55	0.32	0	0	0	0	0	0	0	0
9/17/2024 10:32	28102	TWLA_T2	4	1	-3	0.18	0.1	-0.08	0.17	0.16	0	0	0	0	0	0
9/17/2024 10:32	55508	HERS_T2	2	2	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
9/17/2024 10:33	55002	NEWP_T1	9	10	1	1.16	0.97	-0.19	-0.23	-0.22	0	0	0	0	0	0
9/17/2024 10:34	64502	LAVI_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
9/17/2024 10:34	64503	LAVI_T1	0	0	0	0	0	0	-1.34	-1.41	2	2	0	2100	2100	0
9/17/2024 10:35	55002	NEWP_T1	9	10	1	1.16	0.97	-0.19	-0.23	-0.22	0	0	0	0	0	0
9/17/2024 10:35	48302	ORWI_T2	2	2	0	0.8	0.65	-0.15	0.12	0.13	0	0	0	0	0	0
9/17/2024 10:36	55002	NEWP_T1	9	10	1	1.16	0.97	-0.19	0	0	0	0	0	0	0	0
9/17/2024 10:36	55001	NEWP_T1	0	0	0	0	0	0	-0.06	-0.03	0	0	0	0	0	0
9/17/2024 10:38	65904	SAKR_T2	0	0	0	0	0	0	-1.94	-1.97	3	3	0	1500	1500	0
9/17/2024 10:38	13905	SEID_T1	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
9/17/2024 10:38	65901	SAKR_T2	1	1	0	7.4	7.3	-0.1	0	0	0	0	0	0	0	0
9/17/2024 10:39	21501	CEAV_T2	0	0	0	0	0	0	0.28	0.4	1	1	0	1200	1200	0
9/17/2024 10:41	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 10:43	45501	DERR_T2	0	0	0	0	0	0	0.64	0.65	2	2	0	1800	1800	0
9/17/2024 10:43	45502	DERR_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/17/2024 10:43	10805	OHII_T2	1	2	1	8.5	3.65	-4.85	-1.25	-1.28	2	2	0	1800	1800	0
9/17/2024 10:44	54601	SUMM_T2	10	8	-2	0.52	0.55	0.03	-1.69	-1.68	2	2	0	2100	2100	0
9/17/2024 10:44	45502	DERR_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/17/2024 10:44	45501	DERR_T2	0	0	0	0	0	0	0.64	0.65	2	2	0	1800	1800	0
9/17/2024 10:45	15702	TANN_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
9/17/2024 10:45	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
9/17/2024 10:45	63501	HEID_TBK1-2	47	48	1	0.71	0.85	0.14	0.26	0.25	1	1	0	900	900	0
9/17/2024 10:46	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
9/17/2024 10:46	63501	HEID_TBK1-2	47	48	1	0.71	0.85	0.14	0.26	0.25	1	1	0	900	900	0
9/17/2024 10:46	15702	TANN_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
9/17/2024 10:47	54202	PENN_T2	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
9/17/2024 10:49	63501	HEID_TBK1-2	47	48	1	0.71	0.85	0.14	0.26	0.25	1	1	0	900	900	0
9/17/2024 10:50	43801	SWIL_T1	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
9/17/2024 10:50	43802	SWIL_T1	0	0	0	0	0	0	-0.16	-0.13	1	1	0	600	600	0
9/17/2024 10:52	24902	WHHA_T1	0	1	1	0	0	0	0.73	0.74	0	0	0	0	0	0
9/17/2024 10:53	43802	SWIL_T1	0	0	0	0	0	0	-0.13	-0.13	1	1	0	600	600	0
9/17/2024 10:53	43801	SWIL_T1	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
9/17/2024 10:55	24902	WHHA_T1	0	1	1	0	0	0	0.73	0.74	0	0	0	0	0	0
9/17/2024 10:57	40201	BEGA_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
9/17/2024 11:02	20601	GRWO_T2	1	10	9	0.2	0.2	0	1.57	1.57	0	0	0	0	0	0
9/17/2024 11:03	55002	NEWP_T1	9	9	0	1.02	1.06	0.04	-0.22	-0.2	0	0	0	0	0	0
9/17/2024 11:04	55002	NEWP_T1	9	9	0	1.02	1.06	0.04	0	0	0	0	0	0	0	0
9/17/2024 11:04	51202	MTON_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
9/17/2024 11:04	55001	NEWP_T1	0	0	0	0	0	0	-0.03	-0.11	0	0	0	0	0	0
9/17/2024 11:05	55002	NEWP_T1	9	9	0	1.02	1.06	0.04	0	0	0	0	0	0	0	0
9/17/2024 11:05	55001	NEWP_T1	0	0	0	0	0	0	-0.03	-0.11	0	0	0	0	0	0
9/17/2024 11:10	44801	EDAN_T2	53	90	37	0.41	0.48	0.07	0	0	0	0	0	0	0	0
9/17/2024 11:10	44802	EDAN_T2	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
9/17/2024 11:11	44801	EDAN_T2	53	90	37	0.41	0.48	0.07	-1.54	-1.53	0	0	0	0	0	0
9/17/2024 11:12	44802	EDAN_T2	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
9/17/2024 11:12	44801	EDAN_T2	53	90	37	0.41	0.48	0.07	0	0	0	0	0	0	0	0
9/17/2024 11:13	67805	WLAN_T1	0	0	0	0	0	0	-0.51	-0.64	0	0	0	0	0	0
9/17/2024 11:13	44502	HAMI_T2	1	1	0	1.9	1.9	0	-0.73	-0.7	0	0	0	0	0	0
9/17/2024 11:13	67804	WLAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/17/2024 11:13	44801	EDAN_T2	53	90	37	0.41	0.48	0.07	-1.54	-1.53	0	0	0	0	0	0
9/17/2024 11:13	44802	EDAN_T2	0	0	0	0	0	0	-1.08	-1.04	0	0	0	0	0	0
9/17/2024 11:14	10801	OHII_T1	0	2	2	0	0.3	0.3	-0.5	-0.44	1	1	0	900	900	0
9/17/2024 11:14	44802	EDAN_T2	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
9/17/2024 11:14	44505	HAMI_T2	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
9/17/2024 11:14	44801	EDAN_T2	53	90	37	0.41	0.48	0.07	0	0	0	0	0	0	0	0
9/17/2024 11:14	44502	HAMI_T2	1	1	0	1.9	1.9	0	-0.73	-0.7	0	0	0	0	0	0
9/17/2024 11:14	40201	BEGA_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
9/17/2024 11:15	44505	HAMI_T2	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
9/17/2024 11:15	44502	HAMI_T2	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
9/17/2024 11:15	44802	EDAN_T2	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
9/17/2024 11:15	44801	EDAN_T2	75	88	13	0.42	0.49	0.07	0	0	0	0	0	0	0	0
9/17/2024 11:16	46506	LOHA_T1	3	3	0	5.57	5.6	0.03	0	0	0	0	0	0	0	0
9/17/2024 11:16	46501	LOHA_T1	0	1	1	0	0	0	0.13	0.16	1	1	0	1200	1200	0
9/17/2024 11:16	61502	EPET_T1	0	0	0	0	0	0	-1.92	-1.95	0	0	0	0	0	0
9/17/2024 11:17	61801	EELI_T2	0	0	0	0	0	0	-0.43	-0.48	1	1	0	600	600	0
9/17/2024 11:17	46501	LOHA_T1	0	1	1	0	0	0	0.13	0.16	1	1	0	1200	1200	0
9/17/2024 11:17	46506	LOHA_T1	3	3	0	5.57	5.6	0.03	0	0	0	0	0	0	0	0
9/17/2024 11:17	50107	HARR_T3	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
9/17/2024 11:17	50103	HARR_T3	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/17/2024 11:17	50105	HARR_T3	6	6	0	6.07	6.03	-0.04	0	0	0	0	0	0	0	0
9/17/2024 11:18	46506	LOHA_T1	3	3	0	5.57	5.6	0.03	0	0	0	0	0	0	0	0
9/17/2024 11:18	46501	LOHA_T1	0	1	1	0	0	0	0.13	0.16	1	1	0	1200	1200	0
9/17/2024 11:19	16101	BING_T2	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
9/17/2024 11:21	42201	SHEN_T2	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
9/17/2024 11:25	21204	ECAR_T2	1	1	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
9/17/2024 11:25	21206	ECAR_T2	1	1	0	6	6.4	0.4	0	0	0	0	0	0	0	0
9/17/2024 11:28	40201	BEGA_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/17/2024 11:29	44502	HAMI_T2	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
9/17/2024 11:29	44505	HAMI_T2	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
9/17/2024 11:30	44505	HAMI_T2	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
9/17/2024 11:30	44502	HAMI_T2	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
9/17/2024 11:33	15702	TANN_T2	0	0	0	0	0	0	-0.57	-0.61	0	0	0	0	0	0
9/17/2024 11:33	15703	TANN_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
9/17/2024 11:35	47502	NECO_T1	0	0	0	0	0	0	1.25	1.12	0	0	0	0	0	0
9/17/2024 11:38	42201	SHEN_T2	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
9/17/2024 11:38	67203	TEHI_T1	2	1	-1	0.45	0	-0.45	2.5	2.35	3	3	0	2100	2100	0
9/17/2024 11:38	10805	CHHI_T2	1	1	0	8.1	8.1	0	-0.61	-0.85	1	2	1	1200	1800	600
9/17/2024 11:39	15702	TANN_T2	0	0	0	0	0	0	-0.31	-0.28	0	0	0	0	0	0
9/17/2024 11:39	15703	TANN_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
9/17/2024 11:42	67502	WEWI_T2	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
9/17/2024 11:42	67503	WEWI_T2	1	1	0	8.1	8.4	0.3	0	0	0	0	0	0	0	0
9/17/2024 11:43	67605	WARW_T1	2	0	-2	0.15	0	-0.15	-0.91	-0.85	0	0	0	0	0	0
9/17/2024 11:45	40901	JESH_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/17/2024 11:45	40902	JESH_T1	0	0	0	0	0	0	-0.13	0.01	0	0	0	0	0	0
9/17/2024 11:46	53502	EVIL_T2	0	0	0	0	0	0	-0.3	-0.33	3	3	0	2100	2100	0
9/17/2024 11:46	53501	EVIL_T2	2	4	2	0.95	0.73	-0.22	0	0	0	0	0	0	0	0
9/17/2024 11:47	40901	JESH_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/17/2024 11:47	40902	JESH_T1	0	0	0	0	0	0	-0.13	0.01	0	0	0	0	0	0
9/17/2024 11:51	47401	PENS_T1	3	4	1	0.77	0.97	0.2	-0.4	-0.33	0	0	0	0	0	0
9/17/2024 11:51	24902	WHHA_T1	1	2	1	0.7	0.4	-0.3	0.75	0.77	0	0	0	0	0	0
9/17/2024 11:51	47403	PENS_T1	25	1	-24	0.19	1.9	1.71	0	0	0	0	0	0	0	0
9/17/2024 11:51	47402	PENS_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
9/17/2024 11:51	58402	MORO_T1	0	0	0	0	0	0	-0.08	-0.08	2	2	0	1500	1500	0
9/17/2024 11:55	51305	WIND_T1	1	1	0	0.2	0.4	0.2	0.3	0.27	0	0	0	0	0	0
9/17/2024 11:59	45502	DERR_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
9/17/2024 11:59	45501	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 12:00	13502	MCMI_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/17/2024 12:00	45802	HEGI_T2	11	10	-1	0.46	0.18	-0.28	1.58	1.45	2	2	0	1800	1800	0
9/17/2024 12:01	52004	LING_T2	3	3	0	3.77	3.57	-0.2	0.42	0.4	0	0	0	0	0	0
9/17/2024 12:02	47102	MARL_T2	4	1	-3	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/17/2024 12:02	47103	MARL_T2	5	1	-4	0.34	0.1	-0.24	-0.44	-0.39	0	0	0	0	0	0
9/17/2024 12:03	63305	GREE_T1	2	7	5	0.4	0.22	-0.18	-1.88	-1.83	1	1	0	900	900	0
9/17/2024 12:05	21701	SUBU_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
9/17/2024 12:05	21704	SUBU_T1	0	0	0	0	0	0	-2.11	-2.08	2	2	0	2400	2400	0
9/17/2024 12:05	21705	SUBU_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
9/17/2024 12:06	63305	GREE_T1	2	7	5	0.4	0.22	-0.18	-1.88	-1.83	1	1	0	900	900	0
9/17/2024 12:07	26402	INOR_T1	0	1	1	0	0.3	0.3	-0.87	-0.87	1	1	0	600	600	0
9/17/2024 12:07	14404	SSLA_T1	2	2	0	0.15	0.35	0.2	0.1	0.09	0	0	0	0	0	0
9/17/2024 12:07	21705	SUBU_T1	1	1	0	5.7	5.6	-0.1	0.85	0.85	0	0	0	0	0	0
9/17/2024 12:07	26401	INOR_T1	2	5	3	3.5	2.4	-1.1	0	0	0	0	0	0	0	0
9/17/2024 12:07	14402	SSLA_T1	2	3	1	0.3	0.37	0.07	0	0	0	0	0	0	0	0
9/17/2024 12:07	21701	SUBU_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
9/17/2024 12:08	43301	WATS_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
9/17/2024 12:08	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 12:09	47403	PENS_T1	1	1	0	1.9	1.5	-0.4	0	0	0	0	0	0	0	0
9/17/2024 12:09	47402	PENS_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/17/2024 12:09	47401	PENS_T1	2	3	1	0.65	1.03	0.38	-0.38	-0.28	0	0	0	0	0	0
9/17/2024 12:09	46004	BERW_T2	0	0	0	0	0	0	0.09	0.13	0	0	0	0	0	0
9/17/2024 12:10	67201	TEHI_T1	0	0	0	0	0	0	0.91	0.86	2	2	0	1500	1500	0
9/17/2024 12:10	67203	TEHI_T1	1	2	1	0.1	0.95	0.85	0	0	0	0	0	0	0	0
9/17/2024 12:11	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 12:12	40101	HUNT_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
9/17/2024 12:12	43301	WATS_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
9/17/2024 12:12	43304	WATS_T2	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
9/17/2024 12:13	49803	UNIV_T1	0	1	1	0	0.4	0.4	-0.88	-0.85	0	0	0	0	0	0
9/17/2024 12:13	43304	WATS_T2	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
9/17/2024 12:13	49804	UNIV_T1	1	4	3	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/17/2024 12:13	43301	WATS_T2	1	2	1	0.7	0.5	-0.2	-0.57	-0.55	1	1	0	900	900	0
9/17/2024 12:14	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 12:14	40701	FFLD_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 12:14	11507	FREE_T2	0	0	0	0	0	0	1.14	1.17	0	0	0	0	0	0
9/17/2024 12:15	54504	ENOL_T2	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
9/17/2024 12:15	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/17/2024 12:15	54501	ENOL_T2	0	0	0	0	0	0	-0.79	-0.77	2	2	0	1200	1200	0
9/17/2024 12:15	54505	ENOL_T2	2	2	0	0.47	0.35	-0.05	0	0	0	0	0	0	0	0
9/17/2024 12:16	54505	ENOL_T2	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
9/17/2024 12:16	54504	ENOL_T2	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
9/17/2024 12:16	58202	NEWV_T1	0	0	0	0	0	0	0.48	0.56	0	0	0	0	0	0
9/17/2024 12:16	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 12:16	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 12:16	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/17/2024 12:17	44502	HAMI_T2	1	1	0	1.5	1.5	0	-0.64	-0.62	0	0	0	0	0	0
9/17/2024 12:17	44501	HAMI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 12:18	49804	UNIV_T1	0	5	5	0	0.4	0.4	1.33	0.44	0	0	0	0	0	0
9/17/2024 12:18	49803	UNIV_T1	0	2	2	0	3.25	3.25	0	0	0	0	0	0	0	0
9/17/2024 12:18	16102	BING_T2	0	1	1	0	0.2	0.2	0.16	0.22	1	1	0	1200	1200	0
9/17/2024 12:19	65901	SAKR_T2	1	1	0	7.2	7.8	0.6	-0.41	-0.24	1	1	0	600	600	0
9/17/2024 12:20	50105	HARR_T3	6	6	0	6.4	6.32	-0.08	0	0	0	0	0	0	0	0
9/17/2024 12:20	50107	HARR_T3	1	1	0	7.7	6.8	-0.9	0	0	0	0	0	0	0	0
9/17/2024 12:20	56501	ROCK_T2	3	3	0	0.37	0.37	0	0.22	0.2	0	0	0	0	0	0
9/17/2024 12:21	57401	SPAN_T1	3	7	4	0.5	0.76	0.26	-1.47	-1.44	2	2	0	1200	1200	0
9/17/2024 12:21	66901	SHIL_T2	0	0	0	0	0	0	-1.36	-1.32	1	1	0	1200	1200	0
9/17/2024 12:21	41903	REED_T1	0	0	0	0	0	0	0.4	0.55	2	2	0	2400	2400	0
9/17/2024 12:21	57403	SPAN_T1	5	4	-1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
9/17/2024 12:21	66903	SHIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/17/2024 12:22	65601	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/17/2024 12:22	57401	SPAN_T1	3	7	4	0.5	0.76	0.26	-0.74	-0.72	1	1	0	600	600	0
9/17/2024 12:22	65603	QVIL_T2	0	0	0	0	0	0	-0.58	-0.4	0	0	0	0	0	0
9/17/2024 12:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 12:22	57403	SPAN_T1	5	4	-1	0.4	0.25	-0.15	0.12	0.13	0	0	0	0	0	0
9/17/2024 12:23	55105	WERT_T1	0	0	0	0	0	0	-0.28	-0.27	1	1	0	900	900	0
9/17/2024 12:23	57401	SPAN_T1	3	7	4	0.5	0.76	0.26	-0.74	-0.72	1	1	0	600	600	0
9/17/2024 12:23	47403	PENS_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
9/17/2024 12:23	56501	ROCK_T2	3	3	0	0.37	0.37	0	0.1	0.17	0	0	0	0	0	0
9/17/2024 12:23	57403	SPAN_T1	5	4	-1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
9/17/2024 12:23	47401	PENS_T1	3	3	0	0.97	0.9	-0.07	-0.28	-0.37	0	0	0	0	0	0
9/17/2024 12:23	47402	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/17/2024 12:24	57403	SPAN_T1	5	4	-1	0.4	0.25	-0.15	0.12	0.13	0	0	0	0	0	0
9/17/2024 12:24	57401	SPAN_T1	3	7	4	0.5	0.76	0.26	-0.74	-0.72	1	1	0	600	600	0
9/17/2024 12:25	60101	COCA_T1	0	0	0	0	0	0	0.51	0.56	0	0	0	0	0	0
9/17/2024 12:25	57401	SPAN_T1	3	7	4	0.5	0.76	0.26	-0.74	-0.72	1	1	0	600	600	0
9/17/2024 12:25	57403	SPAN_T1	5	4	-1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
9/17/2024 12:26	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 12:26	47401	PENS_T1	3	3	0	0.97	0.9	-0.07	-0.28	-0.37	0	0	0	0	0	0
9/17/2024 12:26	47403	PENS_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
9/17/2024 12:26	51101	CARL_T1	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0	0
9/17/2024 12:26	47402	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/17/2024 12:26	46203	DANV_T2	1	1	0	6.7	7	0.3	0	0	0	0	0	0	0	0
9/17/2024 12:26	46206	DANV_T2	0	0	0	0	0	0	-0.19	-0.15	2	2	0	2100	2100	0
9/17/2024 12:26	51102	CARL_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/17/2024 12:27	51002	NHAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 12:27	51004	NHAR_T1	1	1	0	6.7	6.5	-0.2	0	0	0	0	0	0	0	0
9/17/2024 12:27	46206	DANV_T2	0	0	0	0	0	0	-0.19	-0.15	2	2	0	2100	2100	0
9/17/2024 12:27	46203	DANV_T2	1	1	0	6.7	7	0.3	0	0	0	0	0	0	0	0
9/17/2024 12:27	11404	FARM_T1	0	0	0	0	0	0	-0.06	-0.03	1	1	0	1200	1200	0
9/17/2024 12:27	11402	FARM_T1	4	1	-3	0.48	0.2	-0.28	0	0	0	0	0	0	0	0
9/17/2024 12:28	60101	COCA_T1	0	0	0	0	0	0	1.02	1.13	0	0	0	0	0	0
9/17/2024 12:29	60101	COCA_T1	0	0	0	0	0	0	0.51	0.56	0	0	0	0	0	0
9/17/2024 12:29	44902	SCOT_T2	0	0	0	0	0	0	-2.02	-2.03	0	0	0	0	0	0
9/17/2024 12:31	42801	SELI_T1	0	1	1	0	0	0	-0.65	-0.72	1	1	0	1200	1200	0
9/17/2024 12:31	42302	MOWR_T2	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
9/17/2024 12:33	54505	ENOL_T2	1	2	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
9/17/2024 12:33	56501	ROCK_T2	3	3	0	0.37	0.5	0.13	0.1	0.17	0	0	0	0	0	0
9/17/2024 12:33	63402	HONY_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 12:33	63403	HONY_T2	0	0	0	0	0	0	0.12	0.12	1	1	0	600	600	0
9/17/2024 12:33	54502	ENOL_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/17/2024 12:33	54504	ENOL_T2	1	1	0	0.2	0.3	0.1	-1.59	-1.53	1	1	0	600	600	0
9/17/2024 12:34	65205	PRIN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/17/2024 12:35	42601	TUSC_T1	0	0	0	0	0	0	-0.3	-0.32	3	3	0	2400	2400	0
9/17/2024 12:37	56501	ROCK_T2	3	3	0	0.37	0.5	0.13	0.17	0.21	0	0	0	0	0	0
9/17/2024 12:38	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 12:39	56501	ROCK_T2	3	3	0	0.37	0.5	0.13	0.17	0.21	0	0	0	0	0	0
9/17/2024 12:40	67605	WARW_T1	0	7	7	0	0.27	0.27	-0.9	-0.87	0	0	0	0	0	0
9/17/2024 12:42	67605	WARW_T1	0	7	7	0	0.27	0.27	-0.9	-0.87	0	0	0	0	0	0
9/17/2024 12:44	63403	HONY_T2	0	0	0	0	0	0	0.12	0.12	1	1	0	600	600	0
9/17/2024 12:44	63402	HONY_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 12:44	45802	HEGI_T2	5	14	9	0.18	0.18	0	0	0	0	0	0	0	0	0
9/17/2024 12:46	44902	SCOT_T2	0	0	0	0	0	0	-2.03	-2.03	0	0	0	0	0	0
9/17/2024 12:47	45802	HEGI_T2	12	3	-9	0.18	0.6	0.42	1.12	1.6	2	2	0	1800	1800	0
9/17/2024 12:47	13503	MCMI_T2	1	1	0	0.7	1.1	0.4	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 12:47	47001	HUGH_T2	3	3	0	6.77	6.73	-0.04	-0.46	-0.41	0	0	0	0	0	0
9/17/2024 12:48	65001	NEFF_T2	0	0	0	0	0	0	-0.23	-0.14	1	1	0	1200	1200	0
9/17/2024 12:49	41902	REED_T1	0	0	0	0	0	0	1.14	1.11	0	0	0	0	0	0
9/17/2024 12:50	41902	REED_T1	0	0	0	0	0	0	1.14	1.11	0	0	0	0	0	0
9/17/2024 12:50	55101	WERT_T1	0	0	0	0	0	0	-1.07	-0.97	3	3	0	2400	2400	0
9/17/2024 12:51	41902	REED_T1	0	0	0	0	0	0	1.11	1.08	0	0	0	0	0	0
9/17/2024 12:51	55101	WERT_T1	0	0	0	0	0	0	-0.97	-1.77	3	3	0	2400	2400	0
9/17/2024 12:52	56501	ROCK_T2	3	3	0	0.43	0.5	0.07	0.21	0.2	0	0	0	0	0	0
9/17/2024 12:52	55101	WERT_T1	0	0	0	0	0	0	-2.92	-5.3	9	12	3	7200	9900	2700
9/17/2024 12:53	41902	REED_T1	0	0	0	0	0	0	1.11	1.08	0	0	0	0	0	0
9/17/2024 12:53	67503	WEWI_T2	1	1	0	8.6	7.9	-0.7	0.08	0.07	0	0	0	0	0	0
9/17/2024 12:53	55101	WERT_T1	0	0	0	0	0	0	-0.97	-1.77	3	4	1	2400	3300	900
9/17/2024 12:54	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 12:55	55101	WERT_T1	0	0	0	0	0	0	-0.97	-1.77	3	4	1	2400	3300	900
9/17/2024 12:55	67503	WEWI_T2	1	1	0	8.6	7.9	-0.7	0.08	0.07	0	0	0	0	0	0
9/17/2024 12:56	67605	WARW_T1	3	7	4	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/17/2024 12:56	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 12:57	67502	WEWI_T2	0	0	0	0	0	0	0	0.12	0	0	0	0	0	0
9/17/2024 12:57	67605	WARW_T1	3	7	4	0.2	0.3	0.1	-0.87	-0.85	0	0	0	0	0	0
9/17/2024 12:57	47203	FAXO_T2	0	0	0	0	0	0	-1.39	-1.4	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/17/2024 12:57	67503	WEWI_T2	1	1	0	8.6	7.9	-0.7	0	0	0	0	0	0	0	0
9/17/2024 12:58	47901	HRDG_T1	0	0	0	0	0	0	1	1.06	1	1	0	1200	1200	0
9/17/2024 12:58	43103	SMIL_T2	13	7	-6	0.38	0.41	0.03	-1.57	-1.53	0	0	0	0	0	0
9/17/2024 12:58	43102	SMIL_T2	3	2	-1	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
9/17/2024 12:58	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 12:58	43101	SMIL_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/17/2024 12:58	43105	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/17/2024 13:08	42601	TUSC_T1	0	0	0	0	0	0	-0.72	-0.51	3	3	0	2400	2400	0
9/17/2024 13:09	20401	ASHF_T2	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/17/2024 13:09	40101	HUNT_T2	0	0	0	0	0	0	-0.41	-0.31	0	0	0	0	0	0
9/17/2024 13:09	20403	ASHF_T2	2	4	2	0.3	0.55	0.25	0.38	0.45	0	0	0	0	0	0
9/17/2024 13:09	56504	ROCK_T2	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
9/17/2024 13:09	56501	ROCK_T2	3	3	0	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
9/17/2024 13:10	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 13:10	50502	MECH_T1	1	1	0	2.5	2.6	0.1	-0.22	-0.19	1	2	1	900	2100	1200
9/17/2024 13:10	50506	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 13:10	50501	MECH_T1	0	4	4	0	0.68	0.68	0	0	0	0	0	0	0	0
9/17/2024 13:10	14203	EALL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/17/2024 13:10	50105	HARR_T3	6	6	0	6.32	6.35	0.03	0	0	0	0	0	0	0	0
9/17/2024 13:10	14201	EALL_T1	0	0	0	0	0	0	0.8	0.87	0	0	0	0	0	0
9/17/2024 13:10	50107	HARR_T3	1	1	0	7	7	0	0	0	0	0	0	0	0	0
9/17/2024 13:10	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 13:11	62102	ELAN_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/17/2024 13:11	67503	WEWI_T2	1	1	0	7.9	7.7	-0.2	0.07	0.07	0	0	0	0	0	0
9/17/2024 13:11	62105	ELAN_T1	0	0	0	0	0	0	0.53	0.58	0	0	0	0	0	0
9/17/2024 13:11	66903	SHIL_T2	0	1	1	0	0.6	0.6	-0.75	-0.7	0	0	0	0	0	0
9/17/2024 13:12	66903	SHIL_T2	0	1	1	0	0.6	0.6	-0.75	-0.7	0	0	0	0	0	0
9/17/2024 13:14	62102	ELAN_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/17/2024 13:14	62105	ELAN_T1	0	0	0	0	0	0	0.53	0.58	0	0	0	0	0	0
9/17/2024 13:15	51202	MTON_T2	0	0	0	0	0	0	0.25	0.29	0	0	0	0	0	0
9/17/2024 13:15	45802	HEGI_T2	2	10	8	0.4	0.22	-0.18	1.46	1.59	2	2	0	1800	1800	0
9/17/2024 13:15	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 13:17	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 13:18	44202	POIN_T2	0	0	0	0	0	0	-2.37	-2.41	1	1	0	1200	1200	0
9/17/2024 13:18	44203	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 13:19	42802	SELI_T1	0	0	0	0	0	0	-0.88	-0.87	1	1	0	900	900	0
9/17/2024 13:20	10801	CHHI_T1	2	5	3	0.15	0.58	0.43	-0.3	-0.29	1	1	0	900	900	0
9/17/2024 13:20	10805	CHHI_T2	1	1	0	7.9	8.1	0.2	-1.05	-0.9	2	2	0	1800	1800	0
9/17/2024 13:21	10805	CHHI_T2	1	1	0	7.9	8.1	0.2	-0.9	-0.84	2	2	0	1800	1800	0
9/17/2024 13:21	42802	SELI_T1	0	0	0	0	0	0	-1.76	-1.75	2	2	0	1800	1800	0
9/17/2024 13:21	65604	QVIL_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
9/17/2024 13:22	42802	SELI_T1	0	0	0	0	0	0	-0.87	-0.83	1	1	0	900	900	0
9/17/2024 13:22	10805	CHHI_T2	1	1	0	7.9	8.1	0.2	-0.9	-0.84	2	2	0	1800	1800	0
9/17/2024 13:24	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 13:25	10805	CHHI_T2	1	1	0	7.9	8.1	0.2	-0.9	-0.84	2	2	0	1800	1800	0
9/17/2024 13:27	67503	WEWI_T2	1	1	0	7.7	7.8	0.1	0.07	0.1	0	0	0	0	0	0
9/17/2024 13:30	20603	GRWO_T2	0	0	0	0	0	0	-0.51	-0.51	1	1	0	900	900	0
9/17/2024 13:30	13501	MCMI_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
9/17/2024 13:30	44801	EDAN_T2	10	24	14	0.3	0.4	0.1	-1.54	-1.5	0	0	0	0	0	0
9/17/2024 13:31	44801	EDAN_T2	10	24	14	0.3	0.4	0.1	-1.54	-1.5	0	0	0	0	0	0
9/17/2024 13:31	12701	MACU_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
9/17/2024 13:32	44801	EDAN_T2	10	24	14	0.3	0.4	0.1	-1.54	-1.5	0	0	0	0	0	0
9/17/2024 13:35	55002	NEWP_T1	7	8	1	1	0.91	-0.09	-0.2	-0.21	0	0	0	0	0	0
9/17/2024 13:37	47401	PENS_T1	3	9	6	0.67	0.6	-0.07	-0.26	-0.18	0	0	0	0	0	0
9/17/2024 13:37	47402	PENS_T1	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
9/17/2024 13:37	47403	PENS_T1	6	2	-4	0.42	1.2	0.78	0	0	0	0	0	0	0	0
9/17/2024 13:40	47403	PENS_T1	6	2	-4	0.42	1.2	0.78	0	0	0	0	0	0	0	0
9/17/2024 13:40	47401	PENS_T1	3	9	6	0.67	0.6	-0.07	-0.26	-0.18	0	0	0	0	0	0
9/17/2024 13:40	47402	PENS_T1	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
9/17/2024 13:41	47402	PENS_T1	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
9/17/2024 13:41	66504	SMAN_T2	0	0	0	0	0	0	-2.21	-2.19	2	2	0	2400	2400	0
9/17/2024 13:41	47401	PENS_T1	3	9	6	0.67	0.6	-0.07	-0.26	-0.18	0	0	0	0	0	0
9/17/2024 13:41	47403	PENS_T1	6	2	-4	0.42	1.2	0.78	0	0	0	0	0	0	0	0
9/17/2024 13:43	20601	GRWO_T2	0	0	0	0	0	0	0.39	0.48	1	1	0	1200	1200	0
9/17/2024 13:47	42903	MIDD_T2	0	0	0	0	0	0	1.03	0.89	1	1	0	1200	1200	0
9/17/2024 13:47	21901	HUMB_T1	0	0	0	0	0	0	-2.24	-2.2	0	0	0	0	0	0
9/17/2024 13:47	66504	SMAN_T2	0	0	0	0	0	0	-1.1	-1.09	1	1	0	1200	1200	0
9/17/2024 13:50	55002	NEWP_T1	7	8	1	0.79	0.93	0.14	-0.21	-0.19	0	0	0	0	0	0
9/17/2024 13:50	64802	MONE_T2	1	2	1	0.3	0.2	-0.1	0.29	0.33	0	0	0	0	0	0
9/17/2024 13:51	64902	MILL_T2	0	0	0	0	0	0	-0.31	-0.29	1	1	0	900	900	0
9/17/2024 13:53	44202	POIN_T2	0	0	0	0	0	0	-2.25	-2.28	1	1	0	1200	1200	0
9/17/2024 13:53	44203	POIN_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
9/17/2024 13:55	67505	WEWI_T1	0	0	0	0	0	0	0.21	0.29	1	1	0	900	900	0
9/17/2024 13:56	53601	DALM_T2	1	1	0	0.8	1	0.2	-0.58	-0.62	1	1	0	900	900	0
9/17/2024 13:56	45902	AUBU_T1	0	0	0	0	0	0	-1.18	-1.39	2	2	0	1200	1200	0
9/17/2024 13:57	61501	EPET_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
9/17/2024 13:57	61506	EPET_T2	0	0	0	0	0	0	-0.15	-0.14	1	1	0	900	900	0
9/17/2024 13:57	45902	AUBU_T1	0	0	0	0	0	0	-0.59	-0.69	1	1	0	600	600	0
9/17/2024 14:01	40901	JESH_T1	1	0	-1	1	1	0	0	0	0	0	0	0	0	0
9/17/2024 14:01	40902	JESH_T1	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
9/17/2024 14:02	40902	JESH_T1	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
9/17/2024 14:02	40901	JESH_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/17/2024 14:03	55002	NEWP_T1	8	10	2	0.84	0.83	-0.01	-0.19	-0.21	0	0	0	0	0	0
9/17/2024 14:03	44203	POIN_T2	0	0	0	0	0	0	0.1	0.04	2	2	0	2100	2100	0
9/17/2024 14:06	42201	SHEN_T2	0	0	0	0	0	0	0.84	0.84	0	0	0	0	0	0
9/17/2024 14:08	64902	MILL_T2	0	0	0	0	0	0	-0.27	-0.24	1	1	0	900	900	0
9/17/2024 14:11	24105	EHAZ_T1	4	4	0	7.05	7	-0.05	0	0	0	0	0	0	0	0
9/17/2024 14:11	48302	ORWI_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/17/2024 14:11	24101	EHAZ_T1	1	8	7	0.2	0.2	0	0	0	0	0	0	0	0	0
9/17/2024 14:11	66505	SMAN_T2	0	0	0	0	0	0	0.24	0.34	3	3	0	2100	2100	0
9/17/2024 14:11	24104	EHAZ_T1	0	1	1	0	0.1	0.1	-0.72	-0.76	1	1	0	1200	1200	0
9/17/2024 14:12	45902	AUBU_T1	0	7	7	0	0	0	-0.69	-0.59	1	1	0	600	600	0
9/17/2024 14:13	15601	NSTR_T2	3	3	0	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
9/17/2024 14:13	61701	ELIZ_T1	1	1	0	3.4	3.1	-0.3	0	0	0	0	0	0	0	0
9/17/2024 14:13	61703	ELIZ_T1	0	0	0	0	0	0	-6.69	-6.51	6	6	0	6300	6300	0
9/17/2024 14:13	15602	NSTR_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
9/17/2024 14:14	61703	ELIZ_T1	0	0	0	0	0	0	-2.23	-2.17	2	2	0	2100	2100	0
9/17/2024 14:14	61701	ELIZ_T1	1	1	0	3.4	3.1	-0.3	0	0	0	0	0	0	0	0
9/17/2024 14:17	20403	ASHF_T2	7	4	-3	0.43	0.43	0	0.5	0.56	0	0	0	0	0	0
9/17/2024 14:17	64101	REFR_T1	6	5	-1	0.47	0.3	-0.17	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 14:17	20401	ASHF_T2	4	4	0	0.68	0.9	0.22	0	0	0	0	0	0	0	0
9/17/2024 14:18	64101	REFR_T1	6	5	-1	0.47	0.3	-0.17	-0.03	-0.03	0	0	0	0	0	0
9/17/2024 14:18	47001	HUGH_T2	4	4	0	6.4	6.33	-0.07	-0.86	-0.85	0	0	0	0	0	0
9/17/2024 14:19	57401	SPAN_T1	0	2	2	0	0.6	0.6	-0.4	-0.42	1	1	0	600	600	0
9/17/2024 14:19	58402	MORO_T1	0	1	1	0	0.1	0.1	-0.08	-0.05	2	2	0	1500	1500	0
9/17/2024 14:19	64101	REFR_T1	6	5	-1	0.47	0.3	-0.17	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 14:21	57401	SPAN_T1	0	2	2	0	0.6	0.6	-0.84	-0.65	2	2	0	1200	1200	0
9/17/2024 14:21	47101	MARL_T1	0	0	0	0	0	0	-1.36	-1.4	1	1	0	600	600	0
9/17/2024 14:22	64101	REFR_T1	6	5	-1	0.47	0.3	-0.17	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 14:24	65802	RTWN_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
9/17/2024 14:26	28102	TWLA_T2	6	8	2	0.17	0.21	0.04	0.19	0.21	0	0	0	0	0	0
9/17/2024 14:27	44601	SALE_T2	2	2	0	1.2	0.1	-1.1	0	0	1	1	0	300	300	0
9/17/2024 14:28	44601	SALE_T2	2	2	0	1.2	0.1	-1.1	0	0	1	1	0	300	300	0
9/17/2024 14:29	64203	KINZ_T1	4	2	-2	1.03	1	-0.03	1.33	1.27	2	2	0	900	900	0
9/17/2024 14:29	64202	KINZ_T1	0	3	3	0	0.73	0.73	0	0	0	0	0	0	0	0
9/17/2024 14:29	64204	KINZ_T1	3	1	-2	0.57	1.1	0.53	0	0	0	0	0	0	0	0
9/17/2024 14:30	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/17/2024 14:30	64701	LITI_T1	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
9/17/2024 14:34	64902	MILL_T2	0	0	0	0	0	0	-0.24	-0.85	1	1	0	900	900	0
9/17/2024 14:35	41902	REED_T1	0	2	2	0	0	0	1.17	1.21	0	0	0	0	0	0
9/17/2024 14:44	24101	EHAZ_T1	8	5	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
9/17/2024 14:44	24102	EHAZ_T1	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
9/17/2024 14:44	24105	EHAZ_T1	4	4	0	7	6.9	-0.1	0	0	0	0	0	0	0	0
9/17/2024 14:45	21901	HUMB_T1	2	0	-2	0.15	0	-0.15	-2.18	-2.13	0	0	0	0	0	0
9/17/2024 14:49	64101	REFR_T1	2	29	27	0.3	0.34	0.04	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 14:50	64101	REFR_T1	2	29	27	0.3	0.34	0.04	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 14:51	64101	REFR_T1	2	29	27	0.3	0.34	0.04	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 14:55	14204	EALL_T2	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
9/17/2024 14:57	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 15:03	50107	HARR_T3	1	1	0	7.9	7	-0.9	0	0	0	0	0	0	0	0
9/17/2024 15:03	50201	HARR_T3	0	0	0	0	0	0	0	0	0	1	1	0	1200	1200
9/17/2024 15:03	50105	HARR_T3	6	6	0	6.63	6.28	-0.35	0	0	0	0	0	0	0	0
9/17/2024 15:04	51402	LYKE_T1	0	0	0	0	0	0	-2.05	-2.14	1	1	0	600	600	0
9/17/2024 15:04	43301	WATS_T2	0	1	1	0	0.1	0.1	-0.5	-0.49	1	1	0	900	900	0
9/17/2024 15:11	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 15:13	45802	HEGI_T2	6	29	23	0.28	0.43	0.15	0	0	0	0	0	0	0	0
9/17/2024 15:14	44905	SCOT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 15:14	44904	SCOT_T1	4	4	0	0.2	0.58	0.38	0	0	0	0	0	0	0	0
9/17/2024 15:15	46101	MACI_T2	0	0	0	0	0	0	-0.06	-0.08	1	1	0	1200	1200	0
9/17/2024 15:15	23202	HIRU_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
9/17/2024 15:15	26704	HEML_T2	0	0	0	0	0	0	-0.47	-0.43	1	1	0	1200	1200	0
9/17/2024 15:22	47502	NECO_T1	0	1	1	0	0.1	0.1	0.97	1.05	0	0	0	0	0	0
9/17/2024 15:26	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/17/2024 15:26	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 15:30	22904	HARW_T1	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
9/17/2024 15:31	44901	SCOT_T2	0	0	0	0	0	0	0.36	0.46	0	0	0	0	0	0
9/17/2024 15:32	41301	FISH_T1	2	3	1	1.55	1.6	0.05	0	0	0	0	0	0	0	0
9/17/2024 15:32	55002	NEWP_T1	5	7	2	0.96	0.69	-0.27	-0.19	-0.19	0	0	0	0	0	0
9/17/2024 15:37	24902	WHHA_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/17/2024 15:37	24901	WHHA_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
9/17/2024 15:38	63302	GREE_T1	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
9/17/2024 15:39	60701	BREC_T1	0	0	0	0	0	0	-0.51	-0.26	1	1	0	600	600	0
9/17/2024 15:40	60701	BREC_T1	0	0	0	0	0	0	-0.51	-0.26	1	1	0	600	600	0
9/17/2024 15:41	60502	NMAN_T2	0	0	0	0	0	0	0.34	0.3	0	0	0	0	0	0
9/17/2024 15:41	46001	BERW_T1	0	0	0	0	0	0	0.08	0.26	0	0	0	0	0	0
9/17/2024 15:42	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 15:43	60701	BREC_T1	0	0	0	0	0	0	-1.02	-0.51	2	2	0	1200	1200	0
9/17/2024 15:49	60701	BREC_T1	0	0	0	0	0	0	-0.51	-0.26	1	1	0	600	600	0
9/17/2024 15:53	44301	BEAV_T2	0	0	0	0	0	0	1.12	1.5	2	2	0	1200	1200	0
9/17/2024 15:54	66901	SHIL_T2	0	0	0	0	0	0	-1.25	-1.31	1	1	0	1200	1200	0
9/17/2024 15:56	48901	FOSP_T2	0	0	0	0	0	0	-0.32	-0.33	1	1	0	600	600	0
9/17/2024 15:56	45901	AUBU_T1	0	0	0	0	0	0	1.65	1.64	0	0	0	0	0	0
9/17/2024 15:58	48902	FOSP_T2	0	0	0	0	0	0	0.4	0.26	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/17/2024 15:59	48901	FOSP_T2	0	0	0	0	0	0	-0.32	-0.33	1	1	0	600	600	0
9/17/2024 16:03	52004	LING_T2	2	2	0	4.9	4.9	0	0.19	0.16	0	0	0	0	0	0
9/17/2024 16:07	15601	NSTR_T2	3	3	0	0.33	0.43	0.1	0	0	0	0	0	0	0	0
9/17/2024 16:07	15603	NSTR_T2	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
9/17/2024 16:14	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
9/17/2024 16:15	23502	GEOR_T1	0	0	0	0	0	0	-0.68	-0.7	1	1	0	1200	1200	0
9/17/2024 16:18	46803	HEPB_T2	0	0	0	0	0	0	0.61	0.58	0	0	0	0	0	0
9/17/2024 16:18	46801	HEPB_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
9/17/2024 16:20	55002	NEWP_T1	4	4	0	0.93	0.65	-0.28	-0.18	-0.15	0	0	0	0	0	0
9/17/2024 16:23	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 16:23	41902	REED_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
9/17/2024 16:24	55507	HERS_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
9/17/2024 16:28	10702	CATA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/17/2024 16:28	40801	EXCH_T2	0	0	0	0	0	0	-0.18	-0.16	1	1	0	1200	1200	0
9/17/2024 16:28	10705	CATA_T2	0	0	0	0	0	0	-0.53	-0.55	1	1	0	900	900	0
9/17/2024 16:29	41304	FISH_T2	1	1	0	0	0	0	-0.72	-0.68	0	0	0	0	0	0
9/17/2024 16:30	23901	ERMO_T2	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
9/17/2024 16:30	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 16:36	42903	MIDD_T2	2	2	0	0.45	1.15	0.7	-0.08	-0.81	1	1	0	1200	1200	0
9/17/2024 16:39	67502	WEWI_T2	0	0	0	0	0	0	-1.02	-1.03	1	1	0	900	900	0
9/17/2024 16:39	67503	WEWI_T2	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
9/17/2024 16:40	42701	AUGU_T1	1	0	-1	0.1	0	-0.1	0	0	2	2	0	1800	1800	0
9/17/2024 16:44	20201	JERM_T1	0	0	0	0	0	0	-0.43	-0.39	2	2	0	2400	2400	0
9/17/2024 16:46	46803	HEPB_T2	0	0	0	0	0	0	0.54	0.58	0	0	0	0	0	0
9/17/2024 16:46	46801	HEPB_T2	2	3	1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
9/17/2024 16:59	47901	HRDG_T1	0	0	0	0	0	0	0.2	0.25	1	0	-1	1200	0	-1200
9/17/2024 16:59	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
9/17/2024 17:00	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
9/17/2024 17:01	47901	HRDG_T1	0	0	0	0	0	0	0.2	0.25	1	0	-1	1200	0	-1200
9/17/2024 17:07	64902	MILL_T2	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
9/17/2024 17:10	10702	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/17/2024 17:10	10705	CATA_T2	0	0	0	0	0	0	-0.52	-0.47	1	1	0	900	900	0
9/17/2024 17:11	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/17/2024 17:12	10702	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/17/2024 17:12	10705	CATA_T2	0	0	0	0	0	0	-0.52	-0.47	1	1	0	900	900	0
9/17/2024 17:13	10702	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/17/2024 17:13	10705	CATA_T2	0	0	0	0	0	0	-0.52	-0.47	1	1	0	900	900	0
9/17/2024 17:15	62105	ELAN_T1	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
9/17/2024 17:16	26704	HEML_T2	0	0	0	0	0	0	-0.71	-0.66	1	1	0	1200	1200	0
9/17/2024 17:20	50103	HARR_T3	2	0	-2	9.9	0	-9.9	0	0	0	0	0	0	0	0
9/17/2024 17:20	50105	HARR_T3	6	6	0	5.97	5.9	-0.07	0	0	0	0	0	0	0	0
9/17/2024 17:20	50201	HARR_T3	1	1	0	0.3	0.4	0.1	0	0	1	1	0	1200	1200	0
9/17/2024 17:20	50107	HARR_T3	1	1	0	6.7	6.4	-0.3	0	0	0	0	0	0	0	0
9/17/2024 17:21	41902	REED_T1	6	2	-4	0.67	0	-0.67	0	0	0	0	0	0	0	0
9/17/2024 17:21	41901	REED_T1	7	9	2	0.19	0.31	0.12	0	0	0	0	0	0	0	0
9/17/2024 17:21	63305	GREE_T1	4	7	3	0.13	0.19	0.06	0	0	0	0	0	0	0	0
9/17/2024 17:21	63304	GREE_T1	0	0	0	0	0	0	-1.3	-1.23	0	0	0	0	0	0
9/17/2024 17:21	41903	REED_T1	0	0	0	0	0	0	-0.18	0.04	1	1	0	1200	1200	0
9/17/2024 17:22	63305	GREE_T1	4	7	3	0.13	0.19	0.06	0	0	0	0	0	0	0	0
9/17/2024 17:22	41903	REED_T1	0	0	0	0	0	0	-0.18	0.04	1	1	0	1200	1200	0
9/17/2024 17:22	63304	GREE_T1	0	0	0	0	0	0	-1.23	-1.29	0	0	0	0	0	0
9/17/2024 17:22	41902	REED_T1	6	2	-4	0.67	0	-0.67	0	0	0	0	0	0	0	0
9/17/2024 17:22	41901	REED_T1	7	9	2	0.19	0.31	0.12	0	0	0	0	0	0	0	0
9/17/2024 17:23	41901	REED_T1	7	9	2	0.19	0.31	0.12	0	0	0	0	0	0	0	0
9/17/2024 17:23	41903	REED_T1	0	0	0	0	0	0	-0.36	0.08	2	2	0	2400	2400	0
9/17/2024 17:23	41902	REED_T1	6	2	-4	0.67	0	-0.67	0	0	0	0	0	0	0	0
9/17/2024 17:24	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/17/2024 17:24	65207	PRIN_T4	4	10	6	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
9/17/2024 17:24	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 17:27	67804	WLAN_T1	1	4	3	0.2	0.55	0.35	0	0	0	0	0	0	0	0
9/17/2024 17:27	67805	WLAN_T1	0	0	0	0	0	0	-1.09	-1.11	0	0	0	0	0	0
9/17/2024 17:31	46102	MACI_T1	0	0	0	0	0	0	0.86	0.85	0	0	0	0	0	0
9/17/2024 17:33	64701	LITI_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
9/17/2024 17:35	16504	STRO_T1	0	0	0	0	0	0	0.99	0.94	0	0	0	0	0	0
9/17/2024 17:42	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 17:43	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 17:44	44902	SCOT_T2	0	0	0	0	0	0	-1.98	-1.79	0	0	0	0	0	0
9/17/2024 17:47	55405	SHER_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 17:48	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 17:48	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 17:51	40601	PIGR_T1	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
9/17/2024 17:51	40602	PIGR_T1	2	2	0	0.95	1.2	0.25	0	0	0	0	0	0	0	0
9/17/2024 17:52	55405	SHER_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 17:52	40601	PIGR_T1	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
9/17/2024 17:52	40602	PIGR_T1	2	2	0	0.95	1.2	0.25	0	0	0	0	0	0	0	0
9/17/2024 17:53	20603	GRWO_T2	0	0	0	0	0	0	-0.55	-0.57	1	1	0	900	900	0
9/17/2024 17:53	20601	GRWO_T2	2	12	10	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
9/17/2024 18:04	46501	LOHA_T1	1	0	-1	1.1	0	-1.1	0.27	0.23	1	1	0	1200	1200	0
9/17/2024 18:04	46101	MACI_T2	0	0	0	0	0	0	0.69	0.7	0	0	0	0	0	0
9/17/2024 18:04	46506	LOHA_T1	4	4	0	3.38	3.68	0.3	0	0	0	0	0	0	0	0
9/17/2024 18:07	17901	BART_T1	0	0	0	0	0	0	0.78	0.71	1	1	0	1200	1200	0
9/17/2024 18:08	17901	BART_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 18:09	17901	BART_T1	0	0	0	0	0	0	0.78	0.71	1	1	0	1200	1200	0
9/17/2024 18:19	13503	MCMI_T2	0	0	0	0	0	0	0.06	0	0	0	0	0	0	0
9/17/2024 20:04	63804	HEMP_T1	1	1	0	5.8	6	0.2	-0.49	-0.51	0	0	0	0	0	0
9/17/2024 20:05	46506	LOHA_T1	4	3	-1	3.68	4.93	1.25	0	0	0	0	0	0	0	0
9/17/2024 20:05	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
9/17/2024 20:16	67804	WLAN_T1	0	0	0	0	0	0	-0.79	-0.86	0	0	0	0	0	0
9/17/2024 20:20	44203	POIN_T2	0	0	0	0	0	0	-0.54	-0.3	2	2	0	2100	2100	0
9/17/2024 20:41	53501	EVIL_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
9/17/2024 20:41	53502	EVIL_T2	0	0	0	0	0	0	-0.13	-0.08	1	1	0	600	600	0
9/17/2024 20:55	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 20:55	55101	WERT_T1	0	0	0	0	0	0	-1.35	-1.37	2	2	0	1800	1800	0
9/17/2024 20:56	67503	WEWI_T2	1	1	0	7.2	7.6	0.4	0	0	0	0	0	0	0	0
9/17/2024 20:56	26704	HEML_T2	1	0	-1	0.1	0	-0.1	-0.79	-0.79	1	1	0	1200	1200	0
9/17/2024 20:56	67502	WEWI_T2	0	10	10	0	0.15	0.15	-1.17	-1.1	1	1	0	900	900	0
9/17/2024 20:57	67804	WLAN_T1	0	0	0	0	0	0	-0.88	-0.83	0	0	0	0	0	0
9/17/2024 20:57	63402	HONY_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/17/2024 20:57	67805	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 20:57	57401	SPAN_T1	0	2	2	0	0.1	0.1	-0.55	-0.51	1	1	0	600	600	0
9/17/2024 20:57	64101	REFR_T1	204	155	-49	0.64	0.32	-0.32	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 20:57	63403	HONY_T2	0	0	0	0	0	0	-0.45	-0.45	1	1	0	600	600	0
9/17/2024 20:58	57401	SPAN_T1	0	2	2	0	0.1	0.1	-0.55	-0.51	1	1	0	600	600	0
9/17/2024 20:58	64903	MILL_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
9/17/2024 20:59	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 20:59	51102	CARL_T1	12	73	61	0.13	0.18	0.05	0	0	0	0	0	0	0	0
9/17/2024 20:59	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 20:59	51101	CARL_T1	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
9/17/2024 20:59	57401	SPAN_T1	0	2	2	0	0.1	0.1	-0.55	-0.51	1	1	0	600	600	0
9/17/2024 20:59	67804	WLAN_T1	0	0	0	0	0	0	-0.88	-0.83	0	0	0	0	0	0
9/17/2024 20:59	67805	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:00	15604	NSTR_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
9/17/2024 21:00	50202	HARR_T3	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:00	50105	HARR_T3	6	6	0	5.52	5.52	0	0	0	0	0	0	0	0	0
9/17/2024 21:00	50103	HARR_T3	2	2	0	0.5	0.85	0.35	0	0	0	0	0	0	0	0
9/17/2024 21:00	20603	GRWO_T2	0	0	0	0	0	0	-0.57	-0.59	1	1	0	900	900	0
9/17/2024 21:00	50107	HARR_T3	1	1	0	6.5	5.8	-0.7	0	0	0	0	0	0	0	0
9/17/2024 21:00	24902	WHHA_T1	0	1	1	0	0	0	0.8	0.81	0	0	0	0	0	0
9/17/2024 21:00	50201	HARR_T3	1	1	0	0.9	1.1	0.2	0	0	1	1	0	1200	1200	0
9/17/2024 21:01	51305	WIND_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
9/17/2024 21:01	65001	NEFF_T2	0	0	0	0	0	0	-0.52	-0.58	1	1	0	1200	1200	0
9/17/2024 21:01	66903	SHIL_T2	0	0	0	0	0	0	-0.72	-0.67	0	0	0	0	0	0
9/17/2024 21:01	23202	HIRU_T2	1	0	-1	0.1	0	-0.1	0.11	0.11	0	0	0	0	0	0
9/17/2024 21:01	66504	SWAN_T2	0	0	0	0	0	0	-2.56	-2.65	2	2	0	2400	2400	0
9/17/2024 21:01	50502	MECH_T1	110	108	-2	0.23	0.22	-0.01	-0.32	-0.33	2	1	-1	2100	900	-1200
9/17/2024 21:01	23203	HIRU_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/17/2024 21:01	66901	SHIL_T2	0	17	17	0	0.12	0.12	0	0	0	0	0	0	0	0
9/17/2024 21:01	50202	HARR_T3	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:01	64101	REFR_T1	155	68	-87	0.45	0.28	-0.17	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 21:01	50107	HARR_T3	1	1	0	6.5	5.8	-0.7	0	0	0	0	0	0	0	0
9/17/2024 21:01	50201	HARR_T3	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
9/17/2024 21:01	50105	HARR_T3	6	6	0	5.52	5.52	0	0	0	0	0	0	0	0	0
9/17/2024 21:01	17901	BART_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 21:01	67605	WARW_T1	2	6	4	0.25	0.18	-0.07	-0.91	-0.9	0	0	0	0	0	0
9/17/2024 21:01	54202	PENN_T2	0	0	0	0	0	0	0.8	0.81	0	0	0	0	0	0
9/17/2024 21:01	23201	HIRU_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
9/17/2024 21:01	50103	HARR_T3	2	2	0	0.5	0.85	0.35	0	0	0	0	0	0	0	0
9/17/2024 21:01	50501	MECH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/17/2024 21:01	10805	CHHI_T2	7	7	0	2.17	8.3	6.13	-0.8	-0.97	2	2	0	1200	1200	0
9/17/2024 21:01	65003	NEFF_T2	4	7	3	0.2	0.23	0.03	0	0	0	0	0	0	0	0
9/17/2024 21:02	25402	LAHA_T2	1	10	9	0.1	0.11	0.01	-0.83	-0.87	0	0	0	0	0	0
9/17/2024 21:02	60101	COCA_T1	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
9/17/2024 21:02	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 21:02	55101	WERT_T1	0	0	0	0	0	0	-1.35	-1.37	2	2	0	1800	1800	0
9/17/2024 21:02	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:02	57401	SPAN_T1	2	2	0	0.1	0.3	0.2	-0.55	-0.51	1	1	0	600	600	0
9/17/2024 21:02	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 21:02	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 21:02	50202	HARR_T3	1	1	0	0.4	0.5	0.1	-0.29	-0.29	0	0	0	0	0	0
9/17/2024 21:02	50105	HARR_T3	6	6	0	5.52	5.52	0	0	0	0	0	0	0	0	0
9/17/2024 21:02	50103	HARR_T3	2	2	0	0.5	0.85	0.35	0	0	0	0	0	0	0	0
9/17/2024 21:02	47001	HUGH_T2	3	3	0	7.13	8.7	1.57	-1.13	-1.23	0	0	0	0	0	0
9/17/2024 21:02	58402	MORO_T1	0	0	0	0	0	0	-0.08	-0.1	2	2	0	1500	1500	0
9/17/2024 21:02	66901	SHIL_T2	0	17	17	0	0.12	0.12	0	0	0	0	0	0	0	0
9/17/2024 21:02	51202	MTON_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
9/17/2024 21:02	66903	SHIL_T2	0	0	0	0	0	0	-0.72	-0.67	0	0	0	0	0	0
9/17/2024 21:02	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:02	67805	WLAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:02	63305	GREE_T1	15	3	-12	0.24	0.2	-0.04	-2	-1.75	1	1	0	900	900	0
9/17/2024 21:02	25404	LAHA_T2	157	280	123	0.11	0.15	0.04	0	0	0	0	0	0	0	0
9/17/2024 21:02	55102	WERT_T2	0	0	0	0	0	0	-0.46	-0.43	1	1	0	600	600	0
9/17/2024 21:02	63306	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/17/2024 21:02	16101	BING_T2	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/17/2024 21:02	67804	WLAN_T1	0	0	0	0	0	0	-0.88	-0.83	0	0	0	0	0	0
9/17/2024 21:02	54501	ENOL_T2	0	0	0	0	0	0	-0.21	-0.23	1	1	0	600	600	0
9/17/2024 21:02	47401	PENS_T1	0	0	0	0	0	0	-0.41	-0.53	0	0	0	0	0	0
9/17/2024 21:02	66504	SMAN_T2	0	0	0	0	0	0	-3.83	-3.98	3	3	0	3600	3600	0
9/17/2024 21:02	20601	GRWO_T2	0	0	0	0	0	0	1.1	1.08	0	0	0	0	0	0
9/17/2024 21:02	50107	HARR_T3	1	1	0	6.5	5.8	-0.7	0	0	0	0	0	0	0	0
9/17/2024 21:02	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:02	45902	AUBU_T1	0	25	25	0	0.21	0.21	-1.57	-1.55	2	2	0	1200	1200	0
9/17/2024 21:02	50201	HARR_T3	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
9/17/2024 21:03	43102	SMIL_T2	6	6	0	0.35	0.63	0.28	0	0	0	0	0	0	0	0
9/17/2024 21:03	64701	LITI_T1	0	0	0	0	0	0	0.42	0.35	0	0	0	0	0	0
9/17/2024 21:03	17901	BART_T1	0	0	0	0	0	0	1.55	1.52	1	1	0	1200	1200	0
9/17/2024 21:03	64204	KINZ_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:03	67503	WEWI_T2	1	1	0	7	7.7	0.7	0.13	0.12	0	0	0	0	0	0
9/17/2024 21:03	51004	NHAR_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
9/17/2024 21:03	15702	TANN_T2	17	12	-5	0.14	0.12	-0.02	-0.32	-0.32	0	0	0	0	0	0
9/17/2024 21:03	66901	SHIL_T2	0	17	17	0	0.12	0.12	-1.54	-1.52	1	1	0	1200	1200	0
9/17/2024 21:03	64902	MILL_T2	0	0	0	0	0	0	-1.06	-0.39	1	1	0	900	900	0
9/17/2024 21:03	48302	ORWI_T2	2	2	0	1.45	1.55	0.1	0.02	0	0	0	0	0	0	0
9/17/2024 21:03	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:03	55001	NEWP_T1	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
9/17/2024 21:03	64503	LAVI_T1	0	13	13	0	0.12	0.12	-1.58	-1.58	1	1	0	1200	1200	0
9/17/2024 21:03	51002	NHAR_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/17/2024 21:03	67805	WLAN_T1	0	3	3	0	0.1	0.1	-1.29	-1.31	0	0	0	0	0	0
9/17/2024 21:03	66504	SMAN_T2	0	0	0	0	0	0	-1.28	-1.33	1	1	0	1200	1200	0
9/17/2024 21:03	46504	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/17/2024 21:03	67803	WLAN_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
9/17/2024 21:03	67502	WEWI_T2	10	5	-5	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/17/2024 21:03	64101	REFR_T1	155	68	-87	0.45	0.28	-0.17	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 21:03	15703	TANN_T2	5	6	1	1.08	0.87	-0.21	0	0	0	0	0	0	0	0
9/17/2024 21:03	43103	SMIL_T2	4	11	7	0.28	0.29	0.01	-1.47	-1.49	0	0	0	0	0	0
9/17/2024 21:03	46501	LOHA_T1	0	1	1	0	0	0	0.23	0.21	1	1	0	1200	1200	0
9/17/2024 21:03	61701	ELIZ_T1	1	1	0	4.2	4.1	-0.1	0	0	0	0	0	0	0	0
9/17/2024 21:03	56501	ROCK_T2	22	115	93	0.28	0.2	-0.08	-1.9	-2.02	0	0	0	0	0	0
9/17/2024 21:03	57401	SPAN_T1	2	2	0	0.1	0.3	0.2	-1.09	-1.03	2	2	0	1200	1200	0
9/17/2024 21:03	61703	ELIZ_T1	0	0	0	0	0	0	-4.85	-4.88	4	4	0	4200	4200	0
9/17/2024 21:03	65802	RTWN_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
9/17/2024 21:03	64201	KINZ_T1	1	2	1	0.8	0.7	-0.1	-0.84	-0.73	6	6	0	3000	3000	0
9/17/2024 21:03	55002	NEWP_T1	4	6	2	0.68	0.73	0.05	0	0	0	0	0	0	0	0
9/17/2024 21:03	60701	BREC_T1	0	0	0	0	0	0	-0.69	-0.8	2	2	0	1200	1200	0
9/17/2024 21:03	46506	LOHA_T1	3	3	0	4.57	4.8	0.23	0	0	0	0	0	0	0	0
9/17/2024 21:03	64502	LAVI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:03	64903	MILL_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
9/17/2024 21:03	64501	LAVI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:03	64202	KINZ_T1	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
9/17/2024 21:03	57403	SPAN_T1	0	1	1	0	0.1	0.1	0.13	0.13	0	0	0	0	0	0
9/17/2024 21:04	15601	NSTR_T2	3	3	0	1.13	1.37	0.24	0	0	0	0	0	0	0	0
9/17/2024 21:04	60101	COCA_T1	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
9/17/2024 21:04	55508	HERS_T2	2	2	0	1.2	1.1	-0.1	-2.41	-2.42	1	1	0	1200	1200	0
9/17/2024 21:04	14204	EALL_T2	0	0	0	0	0	0	0.57	0.45	0	0	0	0	0	0
9/17/2024 21:04	62105	ELAN_T1	0	0	0	0	0	0	0.7	0.71	0	0	0	0	0	0
9/17/2024 21:04	46501	LOHA_T1	0	1	1	0	0	0	0.23	0.21	1	1	0	1200	1200	0
9/17/2024 21:04	67805	WLAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:04	15603	NSTR_T2	1	3	2	0.1	0.13	0.03	-0.28	-0.24	0	0	0	0	0	0
9/17/2024 21:04	13905	SEID_T1	0	0	0	0	0	0	-0.81	-0.85	1	1	0	1200	1200	0
9/17/2024 21:04	46506	LOHA_T1	3	3	0	4.57	4.8	0.23	0	0	0	0	0	0	0	0
9/17/2024 21:04	67502	WEWI_T2	10	5	-5	0.15	0.1	-0.05	-2.34	-2.19	2	2	0	1800	1800	0
9/17/2024 21:04	46504	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/17/2024 21:04	10805	CHHI_T2	7	7	0	2.17	8.3	6.13	-0.4	-0.49	1	1	0	600	600	0
9/17/2024 21:04	67804	WLAN_T1	0	0	0	0	0	0	-0.88	-0.83	0	0	0	0	0	0
9/17/2024 21:04	56501	ROCK_T2	22	115	93	0.28	0.2	-0.08	-0.95	-1.01	0	0	0	0	0	0
9/17/2024 21:04	67503	WEWI_T2	1	1	0	7	7.7	0.7	0	0	0	0	0	0	0	0
9/17/2024 21:04	65603	QVIL_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
9/17/2024 21:05	15602	NSTR_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
9/17/2024 21:05	54504	ENOL_T2	0	0	0	0	0	0	-1.29	-1.3	1	1	0	600	600	0
9/17/2024 21:05	42601	TUSC_T1	1	1	0	0	0.4	0.4	-0.81	-0.96	4	4	0	3600	3600	0
9/17/2024 21:05	15604	NSTR_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
9/17/2024 21:05	15603	NSTR_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/17/2024 21:05	64101	REFR_T1	155	68	-87	0.45	0.28	-0.17	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 21:05	60701	BREC_T1	0	0	0	0	0	0	-0.34	-0.4	1	1	0	600	600	0
9/17/2024 21:05	55002	NEWP_T1	4	6	2	0.68	0.73	0.05	-0.19	-0.21	0	0	0	0	0	0
9/17/2024 21:05	46501	LOHA_T1	0	1	1	0	0	0	0.23	0.21	1	1	0	1200	1200	0
9/17/2024 21:05	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 21:05	41901	REED_T1	9	9	0	0.42	0.57	0.15	0	0	0	0	0	0	0	0
9/17/2024 21:05	40101	HUNT_T2	1	0	-1	0.5	0	-0.5	-0.44	-0.43	0	0	0	0	0	0
9/17/2024 21:05	15703	TANN_T2	5	6	1	1.08	0.87	-0.21	0	0	0	0	0	0	0	0
9/17/2024 21:05	46504	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/17/2024 21:05	15702	TANN_T2	17	12	-5	0.14	0.12	-0.02	-0.32	-0.32	0	0	0	0	0	0
9/17/2024 21:05	15601	NSTR_T2	3	3	0	1.13	1.37	0.24	0	0	0	0	0	0	0	0
9/17/2024 21:05	60101	COCA_T1	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
9/17/2024 21:05	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:05	41903	REED_T1	0	0	0	0	0	0	0.13	0.16	1	1	0	1200	1200	0
9/17/2024 21:05	66502	SMAN_T2	0	0	0	0	0	0	0.22	0.14	0	0	0	0	0	0
9/17/2024 21:05	13501	MCMI_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
9/17/2024 21:05	46506	LOHA_T1	3	3	0	4.57	4.8	0.23	0	0	0	0	0	0	0	0
9/17/2024 21:05	16402	MOPO_T1	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
9/17/2024 21:05	20601	GRWO_T2	0	0	0	0	0	0	1.1	1.08	0	0	0	0	0	0
9/17/2024 21:05	13502	MCMI_T1	11	17	6	0.13	0.14	0.01	0	0	0	0	0	0	0	0
9/17/2024 21:05	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:06	23202	HIRU_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/17/2024 21:06	20201	JERM_T1	0	2	2	0	0.1	0.1	-0.27	-0.58	2	2	0	2400	2400	0
9/17/2024 21:06	65901	SAKR_T2	1	1	0	8	8	0	-0.44	-0.44	1	1	0	600	600	0
9/17/2024 21:06	65207	PRIN_T4	1	2	1	1	0.55	-0.45	0	0	0	0	0	0	0	0
9/17/2024 21:06	42201	SHEN_T2	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
9/17/2024 21:06	55508	HERS_T2	2	2	0	1.2	1.1	-0.1	-2.42	-2.45	1	1	0	1200	1200	0
9/17/2024 21:06	65201	PRIN_T4	0	0	0	0	0	0	0	1	1	1	0	600	600	0
9/17/2024 21:06	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/17/2024 21:06	55405	SHER_T1	6	6	0	0.73	0.62	-0.11	0	0	0	0	0	0	0	0
9/17/2024 21:06	23201	HIRU_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
9/17/2024 21:06	20401	ASHF_T2	2	5	3	0.25	0.48	0.23	0	0	0	0	0	0	0	0
9/17/2024 21:06	51402	LYKE_T1	0	0	0	0	0	0	-1.57	-1.56	1	1	0	600	600	0
9/17/2024 21:06	22904	HARW_T1	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
9/17/2024 21:06	48302	ORWI_T2	2	2	0	1.45	1.55	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:06	67605	WARW_T1	2	6	4	0.25	0.18	-0.07	-0.91	-0.9	0	0	0	0	0	0
9/17/2024 21:06	62105	ELAN_T1	0	0	0	0	0	0	1.4	1.42	0	0	0	0	0	0
9/17/2024 21:06	41901	REED_T1	9	9	0	0.42	0.57	0.15	0	0	0	0	0	0	0	0
9/17/2024 21:06	20403	ASHF_T2	0	0	0	0	0	0	0.59	0.73	0	0	0	0	0	0
9/17/2024 21:06	23203	HIRU_T2	1	0	-1	0.1	0	-0.1	-0.01	0.17	0	0	0	0	0	0
9/17/2024 21:06	24902	WHHA_T1	0	1	1	0	0	0	0.81	0.77	0	0	0	0	0	0
9/17/2024 21:06	11507	FREE_T2	0	0	0	0	0	0	0.94	0.83	0	0	0	0	0	0
9/17/2024 21:06	10705	CATA_T2	0	0	0	0	0	0	-1.44	-1.42	2	2	0	1800	1800	0
9/17/2024 21:06	47401	PENS_T1	0	0	0	0	0	0	-0.41	-0.53	0	0	0	0	0	0
9/17/2024 21:06	54206	PENN_T2	0	0	0	0	0	0	0.17	0.11	0	0	0	0	0	0
9/17/2024 21:06	55002	NEWP_T1	4	6	2	0.68	0.73	0.05	0	0	0	0	0	0	0	0
9/17/2024 21:06	17901	BART_T1	0	0	0	0	0	0	1.52	1.45	1	1	0	1200	1200	0
9/17/2024 21:06	45902	AUBU_T1	0	25	25	0	0.21	0.21	-2.33	-2.68	3	3	0	1800	1800	0
9/17/2024 21:06	55001	NEWP_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
9/17/2024 21:06	65206	PRIN_T4	1	1	0	8.8	0	-8.8	0	0	0	0	0	0	0	0
9/17/2024 21:06	41902	REED_T1	0	0	0	0	0	0	1.12	1.16	0	0	0	0	0	0
9/17/2024 21:07	41304	FISH_T2	1	1	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
9/17/2024 21:07	25501	MADI_T1	4	4	0	1.43	1.35	-0.08	0	0	0	0	0	0	0	0
9/17/2024 21:07	48902	FOSP_T2	0	0	0	0	0	0	0.22	0.11	0	0	0	0	0	0
9/17/2024 21:07	66903	SHIL_T2	0	0	0	0	0	0	-0.67	-0.71	0	0	0	0	0	0
9/17/2024 21:07	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 21:07	46101	MACI_T2	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
9/17/2024 21:07	52004	LING_T2	2	2	0	5.5	5.7	0.2	0.24	0.24	0	0	0	0	0	0
9/17/2024 21:07	24105	EHAZ_T1	4	4	0	6.05	5.93	-0.12	0	0	0	0	0	0	0	0
9/17/2024 21:07	41902	REED_T1	0	0	0	0	0	0	1.12	1.16	0	0	0	0	0	0
9/17/2024 21:07	56501	ROCK_T2	22	115	93	0.28	0.2	-0.08	-1.01	0.33	0	0	0	0	0	0
9/17/2024 21:07	67805	WLAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:07	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/17/2024 21:07	63306	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/17/2024 21:07	47401	PENS_T1	0	0	0	0	0	0	-0.53	-0.48	0	0	0	0	0	0
9/17/2024 21:07	59101	WALK_T2	0	0	0	0	0	0	1.82	1.73	2	2	0	1200	1200	0
9/17/2024 21:07	66901	SHIL_T2	0	17	17	0	0.12	0.12	-1.52	-1.54	1	1	0	1200	1200	0
9/17/2024 21:07	67803	WLAN_T1	0	0	0	0	0	0	-1.26	-1.32	0	0	0	0	0	0
9/17/2024 21:07	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:07	26401	INOR_T1	1	1	0	9.1	8.9	-0.2	0	0	0	0	0	0	0	0
9/17/2024 21:07	47203	FAXO_T2	0	0	0	0	0	0	-1.36	-1.39	1	1	0	1200	1200	0
9/17/2024 21:07	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 21:07	63304	GREE_T1	0	0	0	0	0	0	-1.59	-1.58	0	0	0	0	0	0
9/17/2024 21:07	25503	MADI_T1	65	62	-3	0.2	0.18	-0.02	-0.95	-0.97	0	0	0	0	0	0
9/17/2024 21:07	20401	ASHF_T2	2	5	3	0.25	0.48	0.23	0	0	0	0	0	0	0	0
9/17/2024 21:07	55101	WERT_T1	0	0	0	0	0	0	-4.1	-4.07	6	6	0	5400	5400	0
9/17/2024 21:07	23201	HIRU_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
9/17/2024 21:07	15703	TANN_T2	5	6	1	1.08	0.87	-0.21	0	0	0	0	0	0	0	0
9/17/2024 21:07	64602	LEOL_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
9/17/2024 21:07	16402	MOPO_T1	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
9/17/2024 21:07	65205	PRIN_T1	1	3	2	2.1	0.77	-1.33	0	0	0	0	0	0	0	0
9/17/2024 21:07	64101	REFR_T1	155	68	-87	0.45	0.28	-0.17	-0.01	-0.01	0	0	0	0	0	0
9/17/2024 21:07	26402	INOR_T1	0	0	0	0	0	0	-0.92	-0.26	1	0	-1	600	0	-600
9/17/2024 21:07	63305	GREE_T1	15	3	-12	0.24	0.2	-0.04	-1.75	-0.99	1	0	-1	900	0	-900
9/17/2024 21:07	24102	EHAZ_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
9/17/2024 21:07	42302	MOWR_T2	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
9/17/2024 21:07	23203	HIRU_T2	1	0	-1	0.1	0	-0.1	-0.01	0.17	0	0	0	0	0	0
9/17/2024 21:07	15702	TANN_T2	17	12	-5	0.14	0.12	-0.02	-0.32	-0.34	0	0	0	0	0	0
9/17/2024 21:07	45902	AUBU_T1	0	25	25	0	0.21	0.21	-0.78	-0.89	1	1	0	600	600	0
9/17/2024 21:07	55002	NEWP_T1	4	6	2	0.68	0.73	0.05	-0.21	-0.21	0	0	0	0	0	0
9/17/2024 21:07	24702	FLND_T2	0	0	0	0	0	0	0	0	1	0	-1	1200	0	-1200
9/17/2024 21:07	53501	EVIL_T2	1	2	1	0.3	0.85	0.55	-0.02	-0.02	3	3	0	1800	1800	0
9/17/2024 21:07	23202	HIRU_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/17/2024 21:07	41901	REED_T1	9	9	0	0.42	0.57	0.15	0	0	0	0	0	0	0	0
9/17/2024 21:07	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.24	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/17/2024 21:07	67804	WLAN_T1	0	0	0	0	0	0	-0.83	-0.92	0	0	0	0	0	0
9/17/2024 21:08	52004	LING_T2	2	2	0	5.5	5.7	0.2	0.24	0.24	0	0	0	0	0	0
9/17/2024 21:08	23203	HIRU_T2	1	0	-1	0.1	0	-0.1	-0.01	0.17	0	0	0	0	0	0
9/17/2024 21:08	41901	REED_T1	9	9	0	0.42	0.57	0.15	0	0	0	0	0	0	0	0
9/17/2024 21:08	67804	WLAN_T1	0	0	0	0	0	0	-0.83	-0.92	0	0	0	0	0	0
9/17/2024 21:08	63501	HEID_TBK1-2	40	71	31	0.62	0.36	-0.26	-0.28	0.65	1	0	-1	900	0	-900
9/17/2024 21:08	41301	FISH_T1	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:08	67605	WARW_T1	2	6	4	0.25	0.18	-0.07	-0.9	-0.93	0	0	0	0	0	0
9/17/2024 21:08	23201	HIRU_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
9/17/2024 21:08	46504	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/17/2024 21:08	53601	DALM_T2	1	1	0	1.1	0.5	-0.6	0.09	0.1	0	0	0	0	0	0
9/17/2024 21:08	44801	EDAN_T2	49	73	24	0.37	0.41	0.04	0	0	0	0	0	0	0	0
9/17/2024 21:08	21901	HUMB_T1	0	0	0	0	0	0	-0.88	-0.85	0	0	0	0	0	0
9/17/2024 21:08	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 21:08	43301	WATS_T2	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
9/17/2024 21:08	10705	CATA_T2	0	0	0	0	0	0	-0.72	-0.71	1	1	0	900	900	0
9/17/2024 21:08	12701	MACU_T1	0	0	0	0	0	0	-1.12	-1.1	1	1	0	1200	1200	0
9/17/2024 21:08	41903	REED_T1	0	0	0	0	0	0	0.16	-0.03	1	1	0	1200	1200	0
9/17/2024 21:08	54601	SUMM_T2	3	7	4	0.23	0.19	-0.04	-1.63	-1.64	2	2	0	2100	2100	0
9/17/2024 21:08	57401	SPAN_T1	2	2	0	0.1	0.3	0.2	-0.51	-0.58	1	1	0	600	600	0
9/17/2024 21:08	43302	WATS_T2	4	4	0	0.4	0.73	0.33	0	0	0	0	0	0	0	0
9/17/2024 21:08	60101	COCA_T1	0	0	0	0	0	0	0.41	0.46	0	0	0	0	0	0
9/17/2024 21:08	66901	SHIL_T2	0	17	17	0	0.12	0.12	0	0	0	0	0	0	0	0
9/17/2024 21:08	46506	LOHA_T1	3	3	0	4.57	4.8	0.23	0	0	0	0	0	0	0	0
9/17/2024 21:08	52001	LING_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
9/17/2024 21:08	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 21:08	23901	EPMO_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
9/17/2024 21:08	43304	WATS_T2	1	0	0	0.5	0	-0.5	-0.52	-0.56	0	0	0	0	0	0
9/17/2024 21:08	23202	HIRU_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/17/2024 21:08	47103	MARL_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
9/17/2024 21:08	46501	LOHA_T1	0	1	1	0	0	0	0.21	0.22	1	1	0	1200	1200	0
9/17/2024 21:08	24902	WHHA_T1	0	1	1	0	0	0	0.81	0.77	0	0	0	0	0	0
9/17/2024 21:08	67803	WLAN_T1	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
9/17/2024 21:08	66903	SHIL_T2	0	0	0	0	0	0	-0.67	-0.71	0	0	0	0	0	0
9/17/2024 21:08	61701	ELIZ_T1	1	1	0	4.2	4.1	-0.1	0	0	0	0	0	0	0	0
9/17/2024 21:08	56501	ROCK_T2	22	115	93	0.28	0.2	-0.08	-2.02	0.67	0	0	0	0	0	0
9/17/2024 21:08	10805	CHHI_T2	7	7	0	2.17	8.3	6.13	-0.49	-0.49	1	1	0	600	600	0
9/17/2024 21:08	44802	EDAN_T2	0	0	0	0	0	0	-1.13	-1.15	0	0	0	0	0	0
9/17/2024 21:08	14404	SSLA_T1	0	0	0	0	0	0	0.07	0.02	0	0	0	0	0	0
9/17/2024 21:08	45501	DERR_T2	0	0	0	0	0	0	0.59	0.1	2	2	0	1800	1800	0
9/17/2024 21:08	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:08	66504	SMAN_T2	0	0	0	0	0	0	-1.33	-0.12	1	0	-1	1200	0	-1200
9/17/2024 21:08	24901	WHHA_T1	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
9/17/2024 21:08	61703	ELIZ_T1	0	0	0	0	0	0	-4.88	-4.46	4	4	0	4200	4200	0
9/17/2024 21:08	64101	REFR_T1	155	68	-87	0.45	0.28	-0.17	-0.02	-0.02	0	0	0	0	0	0
9/17/2024 21:08	61502	EPET_T1	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
9/17/2024 21:08	55508	HERS_T2	2	2	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
9/17/2024 21:08	67805	WLAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:08	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/17/2024 21:09	45501	DERR_T2	0	0	0	0	0	0	0.59	0.1	2	2	0	1800	1800	0
9/17/2024 21:09	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:09	44505	HAMI_T2	0	0	0	0	0	0	-0.06	-0.1	0	0	0	0	0	0
9/17/2024 21:09	49803	UNIV_T1	1	1	0	6.1	6	-0.1	-0.9	-0.89	0	0	0	0	0	0
9/17/2024 21:09	21705	SUBU_T1	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
9/17/2024 21:09	21704	SUBU_T1	0	2	2	0	0.1	0.1	-2.34	-2.27	2	2	0	2400	2400	0
9/17/2024 21:09	21701	SUBU_T1	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
9/17/2024 21:09	67502	WEWI_T2	10	5	-5	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/17/2024 21:09	65901	SAKR_T2	1	1	0	8	8	0	0	0	0	0	0	0	0	0
9/17/2024 21:09	64201	KINZ_T1	1	2	1	0.8	0.7	-0.1	-0.37	-0.47	3	3	0	1500	1500	0
9/17/2024 21:09	20603	GRWO_T2	0	0	0	0	0	0	-0.59	-0.6	1	1	0	900	900	0
9/17/2024 21:09	21702	SUBU_T1	0	2	2	0	3.5	3.5	0	0	0	0	0	0	0	0
9/17/2024 21:09	47401	PENS_T1	0	0	0	0	0	0	-0.53	-0.48	0	0	0	0	0	0
9/17/2024 21:09	58202	NEWV_T1	0	0	0	0	0	0	0.53	0.41	0	0	0	0	0	0
9/17/2024 21:09	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 21:09	42802	SELI_T1	0	0	0	0	0	0	-1.14	-1.17	1	1	0	900	900	0
9/17/2024 21:09	64204	KINZ_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:09	61303	EARL_T1	0	0	0	0	0	0	0.09	0.02	0	0	0	0	0	0
9/17/2024 21:09	65904	SAKR_T2	0	0	0	0	0	0	-1.74	-1.77	2	2	0	900	900	0
9/17/2024 21:09	54501	ENOL_T2	0	0	0	0	0	0	-0.23	-0.26	1	1	0	600	600	0
9/17/2024 21:09	64202	KINZ_T1	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
9/17/2024 21:09	67503	WEWI_T2	1	1	0	7	7.7	0.7	0.12	0.12	0	0	0	0	0	0
9/17/2024 21:09	58402	MORO_T1	0	0	0	0	0	0	-0.1	-0.14	2	2	0	1500	1500	0
9/17/2024 21:09	67203	TEHI_T1	0	1	1	0	0	0	2.31	2.31	2	2	0	1500	1500	0
9/17/2024 21:09	44801	EDAN_T2	49	73	24	0.37	0.41	0.04	0	0	0	0	0	0	0	0
9/17/2024 21:09	43802	SWIL_T1	0	0	0	0	0	0	0.01	0	1	1	0	600	600	0
9/17/2024 21:09	47901	HRDG_T1	0	0	0	0	0	0	1.06	1.49	0	0	0	0	0	0
9/17/2024 21:09	43801	SWIL_T1	59	108	49	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
9/17/2024 21:09	44502	HAMI_T2	1	1	0	2.7	2.8	0.1	-1.47	-1.42	0	0	0	0	0	0
9/17/2024 21:09	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:09	44802	EDAN_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
9/17/2024 21:09	48901	FOSP_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
9/17/2024 21:10	67201	TEHI_T1	0	0	0	0	0	0	-0.41	-0.47	1	1	0	900	900	0
9/17/2024 21:10	15703	TANN_T2	5	6	1	1.08	0.87	-0.21	0	0	0	0	0	0	0	0
9/17/2024 21:10	23403	HONE_T1	9	25	16	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
9/17/2024 21:10	10805	CHHI_T2	7	7	0	2.17	8.3	6.13	-0.49	-0.49	1	1	0	600	600	0
9/17/2024 21:10	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 21:10	45802	HEGI_T2	0	48	48	0	1.52	1.52	0	0	0	0	0	0	0	0
9/17/2024 21:10	15702	TANN_T2	17	12	-5	0.14	0.12	-0.02	-0.32	-0.34	0	0	0	0	0	0
9/17/2024 21:10	55101	WERT_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
9/17/2024 21:10	23404	HONE_T1	3	5	2	0.1	0.1	0	0	0	0	0	0	0	0	0
9/17/2024 21:10	51202	MTON_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
9/17/2024 21:10	16504	STRO_T1	0	1	1	0	0	0	0.82	0.77	0	0	0	0	0	0
9/17/2024 21:10	23502	GEOR_T1	0	0	0	0	0	0	-1.31	-1.42	1	1	0	1200	1200	0
9/17/2024 21:10	47101	MARL_T1	0	0	0	0	0	0	-1.45	-1.45	1	1	0	600	600	0
9/17/2024 21:10	67203	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 21:11	40702	FFLD_T1	32	86	54	0.2	0.28	0.08	0	0	0	0	0	0	0	0
9/17/2024 21:11	44601	SALE_T2	0	0	0	0	0	0	0	0	1	1	0	300	300	0
9/17/2024 21:11	43302	WATS_T2	4	4	0	0.4	0.73	0.33	0	0	0	0	0	0	0	0
9/17/2024 21:11	46803	HEPB_T2	13	20	7	0.2	0.19	-0.01	0.55	0.55	0	0	0	0	0	0
9/17/2024 21:11	40101	HUNT_T2	1	0	-1	0.5	0	-0.5	-0.43	-0.42	0	0	0	0	0	0
9/17/2024 21:11	43301	WATS_T2	0	0	0	0	0	0	0.89	0.9	0	0	0	0	0	0
9/17/2024 21:11	57401	SPAN_T1	2	2	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/17/2024 21:11	20401	ASHF_T2	2	5	3	0.25	0.48	0.23	0	0	0	0	0	0	0	0
9/17/2024 21:11	40703	FFLD_T1	3	4	1	0.47	0.58	0.11	0	0	0	0	0	0	0	0
9/17/2024 21:11	64801	MONE_T2	1	4	3	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
9/17/2024 21:11	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.24	0	0	0	0	0	0
9/17/2024 21:11	40701	FFLD_T1	33	53	20	0.56	0.57	0.01	0	0	0	0	0	0	0	0
9/17/2024 21:11	46003	BERW_T2	0	31	31	0	0.12	0.12	0	0	0	0	0	0	0	0
9/17/2024 21:11	44902	SCOT_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
9/17/2024 21:11	46004	BERW_T2	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
9/17/2024 21:11	64802	MONE_T2	0	1	1	0	0.1	0.1	0.1	0.17	0	0	0	0	0	0
9/17/2024 21:11	40602	PIGR_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/17/2024 21:11	43304	WATS_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/17/2024 21:11	60701	BREC_T1	0	0	0	0	0	0	-0.4	-0.37	1	1	0	600	600	0
9/17/2024 21:11	40601	PIGR_T1	0	11	11	0	0.12	0.12	-1.61	-1.28	0	0	0	0	0	0
9/17/2024 21:11	47901	HRDG_T1	0	0	0	0	0	0	1.06	1.49	0	0	0	0	0	0
9/17/2024 21:11	57403	SPAN_T1	0	1	1	0	0.1	0.1	0.13	0.13	0	0	0	0	0	0
9/17/2024 21:11	42201	SHEN_T2	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
9/17/2024 21:11	46801	HEPB_T2	32	34	2	0.27	0.34	0.07	0	0	0	0	0	0	0	0
9/17/2024 21:11	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 21:11	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/17/2024 21:12	44801	EDAN_T2	49	73	24	0.37	0.41	0.04	-1.59	-1.6	0	0	0	0	0	0
9/17/2024 21:12	40101	HUNT_T2	1	0	-1	0.5	0	-0.5	-0.43	-0.42	0	0	0	0	0	0
9/17/2024 21:12	57401	SPAN_T1	2	2	0	0.1	0.3	0.2	-0.51	-0.58	1	1	0	600	600	0
9/17/2024 21:12	11405	FARM_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:12	61801	EELI_T2	0	0	0	0	0	0	-0.72	-0.74	1	1	0	600	600	0
9/17/2024 21:12	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:12	29301	DAPP_T1	1	1	0	9.9	9.8	-0.1	0	0	1	1	0	600	600	0
9/17/2024 21:12	67804	WLAN_T1	0	0	0	0	0	0	-0.83	-0.92	0	0	0	0	0	0
9/17/2024 21:12	56501	ROCK_T2	22	115	93	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
9/17/2024 21:12	46101	MACI_T2	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
9/17/2024 21:12	46001	BERW_T1	0	0	0	0	0	0	-0.61	-0.63	0	0	0	0	0	0
9/17/2024 21:12	40902	JESH_T1	0	0	0	0	0	0	-0.73	-0.71	0	0	0	0	0	0
9/17/2024 21:12	11404	FARM_T1	0	0	0	0	0	0	-0.3	-0.32	1	1	0	1200	1200	0
9/17/2024 21:12	47401	PENS_T1	0	0	0	0	0	0	-0.53	-0.48	0	0	0	0	0	0
9/17/2024 21:12	10801	CHHI_T1	0	1	1	0	0	0	-1.21	-1.26	2	2	0	1500	1500	0
9/17/2024 21:12	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 21:12	67805	WLAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:12	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 21:12	41903	REED_T1	0	0	0	0	0	0	0.16	-0.03	1	1	0	1200	1200	0
9/17/2024 21:12	42801	SELI_T1	0	0	0	0	0	0	-0.94	-0.91	1	1	0	1200	1200	0
9/17/2024 21:12	55101	WERT_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1800	1800	0
9/17/2024 21:12	53501	EVIL_T2	1	2	1	0.3	0.85	0.55	-0.01	-0.01	1	1	0	600	600	0
9/17/2024 21:12	41901	REED_T1	9	9	0	0.42	0.57	0.15	0	0	0	0	0	0	0	0
9/17/2024 21:12	56504	ROCK_T2	0	0	0	0	0	0	-0.05	-0.1	0	0	0	0	0	0
9/17/2024 21:12	44601	SALE_T2	0	0	0	0	0	0	0	0	1	1	0	300	300	0
9/17/2024 21:12	45502	DERR_T2	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
9/17/2024 21:13	13502	MCMI_T1	11	17	6	0.13	0.14	0.01	0	0	0	0	0	0	0	0
9/17/2024 21:13	43302	WATS_T2	4	4	0	0.4	0.73	0.33	0	0	0	0	0	0	0	0
9/17/2024 21:13	53502	EVIL_T2	0	0	0	0	0	0	-0.15	-0.15	1	1	0	600	600	0
9/17/2024 21:13	63305	GREE_T1	15	3	-12	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
9/17/2024 21:13	20401	ASHF_T2	2	5	3	0.25	0.48	0.23	0	0	0	0	0	0	0	0
9/17/2024 21:13	64203	KINZ_T1	0	0	0	0	0	0	-0.16	-0.08	1	1	0	600	600	0
9/17/2024 21:13	53501	EVIL_T2	1	2	1	0.3	0.85	0.55	-0.01	-0.01	1	1	0	600	600	0
9/17/2024 21:13	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:13	64202	KINZ_T1	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
9/17/2024 21:13	42802	SELI_T1	0	0	0	0	0	0	-1.14	-1.17	1	1	0	900	900	0
9/17/2024 21:13	67801	WLAN_T1	0	0	0	0	0	0	0.37	0.41	0	0	0	0	0	0
9/17/2024 21:13	42903	MIDD_T2	1	2	1	0.1	0.2	0.1	0.08	0.04	0	0	0	0	0	0
9/17/2024 21:13	44301	BEAV_T2	0	0	0	0	0	0	0.12	0.09	1	1	0	600	600	0
9/17/2024 21:13	41903	REED_T1	0	0	0	0	0	0	0.16	-0.03	1	1	0	1200	1200	0
9/17/2024 21:13	59101	WALK_T2	0	0	0	0	0	0	0.91	0.86	1	1	0	600	600	0
9/17/2024 21:13	47401	PENS_T1	0	0	0	0	0	0	-0.53	-0.48	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/17/2024 21:13	40902	JESH_T1	0	0	0	0	0	0	-0.73	-0.71	0	0	0	0	0	0
9/17/2024 21:13	64204	KINZ_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
9/17/2024 21:13	63306	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/17/2024 21:13	47901	HRDG_T1	0	0	0	0	0	0	1.06	1.49	0	0	0	0	0	0
9/17/2024 21:13	64201	KINZ_T1	1	2	1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
9/17/2024 21:13	47001	HUGH_T2	3	3	0	7.13	8.7	1.57	-1.23	-1.33	0	0	0	0	0	0
9/17/2024 21:13	43801	SWIL_T1	59	108	49	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
9/17/2024 21:13	41901	REED_T1	9	9	0	0.42	0.57	0.15	0	0	0	0	0	0	0	0
9/17/2024 21:13	43802	SWIL_T1	0	0	0	0	0	0	0.01	0	1	1	0	600	600	0
9/17/2024 21:13	63304	GREE_T1	0	0	0	0	0	0	-1.59	-1.58	0	0	0	0	0	0
9/17/2024 21:13	67605	WARW_T1	2	6	4	0.25	0.18	-0.07	-0.9	-0.93	0	0	0	0	0	0
9/17/2024 21:13	55001	NEWP_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
9/17/2024 21:13	67805	WLAN_T1	0	3	3	0	0.1	0.1	-1.31	-1.29	0	0	0	0	0	0
9/17/2024 21:13	55002	NEWP_T1	4	6	2	0.68	0.73	0.05	-0.21	-0.21	0	0	0	0	0	0
9/17/2024 21:13	43304	WATS_T2	1	1	0	0.5	0	-0.5	-1.04	-1.12	0	0	0	0	0	0
9/17/2024 21:13	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/17/2024 21:13	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.24	0	0	0	0	0	0
9/17/2024 21:13	41902	REED_T1	0	0	0	0	0	0	1.12	1.16	0	0	0	0	0	0
9/17/2024 21:13	45802	HEGI_T2	0	48	48	0	1.52	1.52	1.81	0.7	0	0	0	0	0	0
9/17/2024 21:14	43302	WATS_T2	4	4	0	0.4	0.73	0.33	0	0	0	0	0	0	0	0
9/17/2024 21:14	42903	MIDD_T2	1	2	1	0.1	0.2	0.1	0.08	0.04	0	0	0	0	0	0
9/17/2024 21:14	43304	WATS_T2	1	1	0	0.5	0	-0.5	-0.52	-0.56	0	0	0	0	0	0
9/17/2024 21:14	46801	HEPB_T2	32	34	2	0.27	0.34	0.07	0	0	0	0	0	0	0	0
9/17/2024 21:14	63305	GREE_T1	15	3	-12	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
9/17/2024 21:14	46803	HEPB_T2	13	20	7	0.2	0.19	-0.01	0.55	0.55	0	0	0	0	0	0
9/17/2024 21:14	44801	EDAN_T2	49	73	24	0.37	0.41	0.04	-3.18	-3.19	0	0	0	0	0	0
9/17/2024 21:14	42802	SELI_T1	0	0	0	0	0	0	-1.14	-1.17	1	1	0	900	900	0
9/17/2024 21:14	40902	JESH_T1	0	0	0	0	0	0	-1.46	-1.42	0	0	0	0	0	0
9/17/2024 21:14	41902	REED_T1	0	0	0	0	0	0	1.12	1.16	0	0	0	0	0	0
9/17/2024 21:14	67605	WARW_T1	2	6	4	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
9/17/2024 21:14	63306	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/17/2024 21:14	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 21:14	44902	SCOT_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
9/17/2024 21:14	63302	GREE_T1	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
9/17/2024 21:14	41901	REED_T1	9	9	0	0.42	0.57	0.15	0	0	0	0	0	0	0	0
9/17/2024 21:14	63501	HEID_TBK1-2	40	71	31	0.62	0.36	-0.26	-0.28	0.65	1	0	-1	900	0	-900
9/17/2024 21:15	44502	HAMI_T2	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
9/17/2024 21:15	44505	HAMI_T2	0	0	0	0	0	0	-0.06	-0.1	0	0	0	0	0	0
9/17/2024 21:15	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 21:16	46901	FOSP_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
9/17/2024 21:16	47502	NECO_T1	1	1	0	0.4	0.6	0.2	0.87	0.87	0	0	0	0	0	0
9/17/2024 21:16	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17/2024 21:16	21501	CEAV_T2	0	0	0	0	0	0	-0.16	-0.16	1	1	0	1200	1200	0
9/17/2024 21:16	46102	MACI_T1	0	0	0	0	0	0	0.8	0.81	0	0	0	0	0	0
9/17/2024 21:17	41902	REED_T1	0	0	0	0	0	0	1.12	1.16	0	0	0	0	0	0
9/17/2024 21:17	47401	PENS_T1	0	0	0	0	0	0	-0.53	-0.48	0	0	0	0	0	0
9/17/2024 21:17	41901	REED_T1	9	9	0	0.39	0.56	0.17	0	0	0	0	0	0	0	0
9/17/2024 21:18	43302	WATS_T2	4	4	0	0.73	0.8	0.07	0	0	0	0	0	0	0	0
9/17/2024 21:18	44901	SCOT_T2	0	0	0	0	0	0	0.28	0.34	0	0	0	0	0	0
9/17/2024 21:18	43304	WATS_T2	1	0	-1	0.1	0	-0.1	-0.52	-0.56	0	0	0	0	0	0
9/17/2024 21:19	41901	REED_T1	9	9	0	0.39	0.56	0.17	0	0	0	0	0	0	0	0
9/17/2024 21:19	44802	EDAN_T2	0	0	0	0	0	0	-1.13	-1.15	0	0	0	0	0	0
9/17/2024 21:19	42802	SELI_T1	0	0	0	0	0	0	-1.14	-1.17	1	1	0	900	900	0
9/17/2024 21:19	44301	BEAV_T2	0	0	0	0	0	0	0.12	0.09	1	1	0	600	600	0
9/17/2024 21:19	44801	EDAN_T2	70	118	48	0.37	0.45	0.08	0	0	0	0	0	0	0	0
9/17/2024 21:22	60701	BREC_T1	0	0	0	0	0	0	-0.37	-0.39	1	1	0	600	600	0
9/17/2024 21:24	10801	CHIH_T1	0	0	0	0	0	0	-1.26	-0.65	2	1	-1	1500	900	-600
9/17/2024 21:34	44802	EDAN_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
9/17/2024 21:34	44801	EDAN_T2	62	134	72	0.45	0.44	-0.01	0	0	0	0	0	0	0	0
9/17/2024 21:35	57505	LAWN_T3	0	0	0	0	0	0	0.76	0.78	0	0	0	0	0	0
9/17/2024 21:37	63501	HEID_TBK1-2	49	49	0	0.59	0.53	-0.06	0.59	0.61	0	0	0	0	0	0
9/17/2024 21:38	47502	NECO_T1	1	1	0	0.5	0.6	0.1	0.9	0.91	0	0	0	0	0	0
9/17/2024 21:38	66504	SMAN_T2	0	0	0	0	0	0	-0.08	0.05	0	0	0	0	0	0
9/17/2024 21:38	66505	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/17/2024 21:39	66504	SMAN_T2	0	0	0	0	0	0	-0.08	0.05	0	0	0	0	0	0
9/17/2024 21:39	66505	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/17/2024 21:41	66505	SMAN_T2	0	2	2	0	0.2	0.2	0.22	0.19	2	2	0	1500	1500	0
9/17/2024 21:43	66504	SMAN_T2	0	0	0	0	0	0	-0.08	0.05	0	0	0	0	0	0
9/17/2024 21:43	66505	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/17/2024 21:47	10705	CATA_T2	0	0	0	0	0	0	-0.69	-0.73	1	1	0	900	900	0
9/17/2024 21:50	55102	WERT_T2	0	0	0	0	0	0	-0.45	-0.5	1	1	0	600	600	0
9/17/2024 21:55	40801	EXCH_T2	0	0	0	0	0	0	0.89	-0.39	0	1	1	0	1200	1200
9/17/2024 22:19	28102	TWLA_T2	15	14	-1	0.73	0.45	-0.28	0.18	0.17	0	0	0	0	0	0
9/17/2024 23:01	45901	AUBU_T1	0	0	0	0	0	0	1.58	1.71	0	0	0	0	0	0
9/17/2024 23:01	45902	AUBU_T1	15	2	-13	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/18/2024 1:04	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	0.88	0.84	0	0	0	0	0	0
9/18/2024 8:24	24901	WHHA_T1	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
9/18/2024 8:25	53501	EVIL_T2	0	2	2	0	1	1	-0.01	-0.01	1	3	2	600	2100	1500
9/18/2024 8:38	15601	NSTR_T2	2	3	1	0.1	0.37	0.27	0	0	0	0	0	0	0	0
9/18/2024 8:38	15603	NSTR_T2	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
9/18/2024 8:38	44601	SALE_T2	1	2	1	0.1	0	-0.1	0	0	2	2	0	900	900	0
9/18/2024 8:39	44601	SALE_T2	1	2	1	0.1	0	-0.1	0	0	2	2	0	900	900	0
9/18/2024 8:39	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/18/2024 8:39	15702	TANN_T2	0	0	0	0	0	0	-0.76	-0.68	0	0	0	0	0	0
9/18/2024 8:45	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 8:47	55002	NEWP_T1	5	6	1	1.06	1.2	0.14	-0.24	-0.23	0	0	0	0	0	0
9/18/2024 8:49	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 9:02	46602	LACR_T1	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
9/18/2024 9:06	67503	WEWI_T2	1	1	0	8.5	8.5	0	0.05	-0.04	0	0	0	0	0	0
9/18/2024 9:08	67501	WEWI_T1	0	0	0	0	0	0	-0.36	-0.44	0	0	0	0	0	0
9/18/2024 9:08	45602	WOOL_T1	0	1	1	0	0.1	0.1	0.57	0.6	0	0	0	0	0	0
9/18/2024 9:09	63804	HEMP_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
9/18/2024 9:09	63801	HEMP_T1	0	0	0	0	0	0	-0.4	-0.38	1	1	0	900	900	0
9/18/2024 9:12	54502	ENOL_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
9/18/2024 9:12	54505	ENOL_T2	1	1	0	0.7	0.7	0	-0.64	-0.64	1	1	0	600	600	0
9/18/2024 9:19	65603	QVIL_T2	0	0	0	0	0	0	-0.23	-0.06	0	0	0	0	0	0
9/18/2024 9:21	66505	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/18/2024 9:21	66502	SMAN_T2	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
9/18/2024 9:22	66505	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/18/2024 9:22	66502	SMAN_T2	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
9/18/2024 9:23	67503	WEWI_T2	1	1	0	8.5	8.1	-0.4	0.1	0.09	0	0	0	0	0	0
9/18/2024 9:24	66505	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/18/2024 9:24	66502	SMAN_T2	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
9/18/2024 9:25	66502	SMAN_T2	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
9/18/2024 9:25	54503	ENOL_T2	0	0	0	0	0	0	-0.35	-0.37	1	1	0	600	600	0
9/18/2024 9:25	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/18/2024 9:25	54502	ENOL_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
9/18/2024 9:25	66505	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/18/2024 9:28	54502	ENOL_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
9/18/2024 9:28	54505	ENOL_T2	1	1	0	0.7	0.7	0	-0.64	-0.65	1	1	0	600	600	0
9/18/2024 9:29	54505	ENOL_T2	1	1	0	0.7	0.7	0	-0.64	-0.65	1	1	0	600	600	0
9/18/2024 9:29	54504	ENOL_T2	0	0	0	0	0	0	-1.71	-1.71	1	1	0	600	600	0
9/18/2024 9:29	54502	ENOL_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
9/18/2024 9:31	64904	MILL_T1	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
9/18/2024 9:33	64701	LITI_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
9/18/2024 9:36	57403	SPAN_T1	0	51	51	0	0.2	0.2	0	0	0	0	0	0	0	0
9/18/2024 9:36	57401	SPAN_T1	2	2	0	0.65	0.9	0.25	-1.71	-1.53	2	2	0	1200	1200	0
9/18/2024 9:39	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 9:43	54502	ENOL_T2	1	1	0	0.7	0.7	0	-2.03	-1.99	1	1	0	600	600	0
9/18/2024 9:43	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/18/2024 9:44	61001	DONV_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
9/18/2024 9:51	52502	PROG_T2	0	1	1	0	0	0	-0.58	-0.59	1	1	0	900	900	0
9/18/2024 10:00	52403	GRPA_T2	0	0	0	0	0	0	0.04	0.07	0	0	0	0	0	0
9/18/2024 10:00	54502	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/18/2024 10:00	28102	TWLA_T2	12	13	1	0.36	0.42	0.06	0.17	0.18	0	0	0	0	0	0
9/18/2024 10:00	52402	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/18/2024 10:00	15601	NSTR_T2	3	3	0	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
9/18/2024 10:00	59003	MIFF_T1	0	1	1	0	0.2	0.2	-0.3	-1.01	0	0	0	0	0	0
9/18/2024 10:00	28805	LAKE_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
9/18/2024 10:00	67503	WEWI_T2	1	1	0	8.4	8.2	-0.2	-0.07	0.02	0	0	0	0	0	0
9/18/2024 10:00	54505	ENOL_T2	1	1	0	0.7	0.6	-0.1	-0.65	-0.65	1	1	0	600	600	0
9/18/2024 10:00	59002	MIFF_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
9/18/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
9/18/2024 10:00	15603	NSTR_T2	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
9/18/2024 10:04	41205	KENM_T2	0	0	0	0	0	0	-0.71	-0.69	1	1	0	600	600	0
9/18/2024 10:04	41202	KENM_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/18/2024 10:07	53502	EVIL_T2	0	0	0	0	0	0	0.41	0.22	2	2	0	1200	1200	0
9/18/2024 10:07	53501	EVIL_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/18/2024 10:08	60803	BUCK_T1	11	13	2	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
9/18/2024 10:08	60801	BUCK_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
9/18/2024 10:12	60803	BUCK_T1	11	13	2	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
9/18/2024 10:12	60801	BUCK_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
9/18/2024 10:14	25404	LAHA_T2	6	17	11	0.1	0.12	0.02	0	0	0	0	0	0	0	0
9/18/2024 10:14	25402	LAHA_T2	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
9/18/2024 10:14	28805	LAKE_T1	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
9/18/2024 10:15	25404	LAHA_T2	17	9	-8	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
9/18/2024 10:15	25402	LAHA_T2	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
9/18/2024 10:16	46602	LACR_T1	48	4	-44	0.13	0.1	-0.03	-0.95	-0.93	0	0	0	0	0	0
9/18/2024 10:16	52001	LING_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
9/18/2024 10:19	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 10:19	28805	LAKE_T1	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
9/18/2024 10:19	64305	LINC_T1	1	1	0	0.1	0.3	0.2	0.14	0.19	0	0	0	0	0	0
9/18/2024 10:20	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 10:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 10:21	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
9/18/2024 10:29	52004	LING_T2	2	2	0	5.5	5.4	-0.1	0.35	0.35	0	0	0	0	0	0
9/18/2024 10:30	45702	LIND_T2	1	1	0	1.5	1.3	-0.2	-1.68	-1.68	0	0	0	0	0	0
9/18/2024 10:31	45702	LIND_T2	1	1	0	1.5	1.3	-0.2	-1.68	-1.68	0	0	0	0	0	0
9/18/2024 10:31	46506	LOHA_T1	3	3	0	4.77	5.33	0.56	0	0	0	0	0	0	0	0
9/18/2024 10:31	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
9/18/2024 10:31	46504	LOHA_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/18/2024 10:32	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
9/18/2024 10:32	46506	LOHA_T1	3	3	0	4.77	5.33	0.56	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/18/2024 10:32	46504	LOHA_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/18/2024 10:36	54601	SUMM_T2	1	5	4	0.5	0.3	-0.2	-1.72	-1.7	2	2	0	2100	2100	0
9/18/2024 10:36	59101	WALK_T2	1	0	-1	0.4	0	-0.4	1.76	1.8	0	0	0	0	0	0
9/18/2024 10:37	67503	WEWI_T2	1	1	0	8.2	8.1	-0.1	0	0	0	0	0	0	0	0
9/18/2024 10:37	67502	WEWI_T2	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
9/18/2024 10:40	14203	EALL_T1	0	0	0	0	0	0	0.21	0.18	1	1	0	1200	1200	0
9/18/2024 10:44	15702	TANN_T2	0	0	0	0	0	0	-0.35	-0.29	0	0	0	0	0	0
9/18/2024 10:44	10705	CATA_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
9/18/2024 10:44	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
9/18/2024 10:45	63501	HEID_TBK1-2	47	48	1	0.97	1.02	0.05	0.29	0.27	1	1	0	900	900	0
9/18/2024 10:46	10705	CATA_T2	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
9/18/2024 10:46	10701	CATA_T2	0	0	0	0	0	0	-0.36	-0.32	0	0	0	0	0	0
9/18/2024 10:48	55002	NEWP_T1	6	6	0	0.77	0.73	-0.04	-0.21	-0.2	0	0	0	0	0	0
9/18/2024 10:49	55002	NEWP_T1	6	6	0	0.77	0.73	-0.04	0	0	0	0	0	0	0	0
9/18/2024 10:49	55001	NEWP_T1	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
9/18/2024 10:51	66502	SMAN_T2	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
9/18/2024 10:52	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 10:55	15702	TANN_T2	0	0	0	0	0	0	-0.58	-0.65	0	0	0	0	0	0
9/18/2024 10:55	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
9/18/2024 10:56	45501	DERR_T2	0	0	0	0	0	0	0.87	0.99	2	2	0	1800	1800	0
9/18/2024 10:56	45502	DERR_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/18/2024 10:58	45502	DERR_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/18/2024 10:58	45501	DERR_T2	0	0	0	0	0	0	0.87	0.99	2	2	0	1800	1800	0
9/18/2024 11:02	52004	LING_T2	2	2	0	5.1	5.25	0.15	0.35	0.37	0	0	0	0	0	0
9/18/2024 11:07	24901	WHHA_T1	0	0	0	0	0	0	0.48	0.51	0	0	0	0	0	0
9/18/2024 11:10	66703	STRA_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
9/18/2024 11:11	44601	SALE_T2	0	2	2	0	0.1	0.1	0	0	2	2	0	900	900	0
9/18/2024 11:12	44601	SALE_T2	0	2	2	0	0.1	0.1	0	0	2	2	0	900	900	0
9/18/2024 11:14	40801	EXCH_T2	0	1	1	0	0.1	0.1	-0.3	-0.36	1	1	0	1200	1200	0
9/18/2024 11:21	15604	NSTR_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
9/18/2024 11:22	59101	WALK_T2	0	1	1	0	0	0	1.91	1.73	0	0	0	0	0	0
9/18/2024 11:23	59101	WALK_T2	0	1	1	0	0	0	3.81	3.47	0	0	0	0	0	0
9/18/2024 11:25	54504	ENOL_T2	0	0	0	0	0	0	-1.71	-1.7	1	1	0	600	600	0
9/18/2024 11:25	54501	ENOL_T2	4	4	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
9/18/2024 11:25	54502	ENOL_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
9/18/2024 11:25	54505	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
9/18/2024 11:27	54501	ENOL_T2	4	4	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
9/18/2024 11:27	54505	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
9/18/2024 11:27	59002	MIFF_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
9/18/2024 11:27	40801	EXCH_T2	0	1	1	0	0.1	0.1	-1.08	-0.96	3	3	0	3600	3600	0
9/18/2024 11:27	54502	ENOL_T2	1	1	0	0.9	0.8	-0.1	-2.01	-2.01	1	1	0	600	600	0
9/18/2024 11:27	59003	MIFF_T1	0	1	1	0	0.5	0.5	-1.1	-1.33	0	0	0	0	0	0
9/18/2024 11:28	24102	EHAZ_T1	0	0	0	0	0	0	0.47	0.52	0	0	0	0	0	0
9/18/2024 11:28	54502	ENOL_T2	1	1	0	0.9	0.8	-0.1	-2.01	-2.01	1	1	0	600	600	0
9/18/2024 11:28	24105	EHAZ_T1	4	4	0	6.3	6.18	-0.12	0	0	0	0	0	0	0	0
9/18/2024 11:28	40802	EXCH_T2	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
9/18/2024 11:28	54501	ENOL_T2	4	4	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
9/18/2024 11:28	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/18/2024 11:28	54505	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
9/18/2024 11:29	23901	EFMO_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
9/18/2024 11:30	40802	EXCH_T2	0	0	0	0	0	0	0.77	0.84	0	0	0	0	0	0
9/18/2024 11:30	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/18/2024 11:37	42201	SHEN_T2	0	0	0	0	0	0	0.13	0.15	1	1	0	600	600	0
9/18/2024 11:37	64904	MILL_T1	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
9/18/2024 11:39	14204	EALL_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
9/18/2024 11:40	40201	BEGA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/18/2024 11:42	40201	BEGA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/18/2024 11:43	40201	BEGA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/18/2024 11:46	49803	UNIV_T1	1	1	0	5.3	5.1	-0.2	-2.04	-1.97	0	0	0	0	0	0
9/18/2024 11:47	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 11:55	24901	WHHA_T1	0	1	1	0	4.7	4.7	0.49	0.49	0	0	0	0	0	0
9/18/2024 11:56	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.47	-0.52	1	1	0	600	600	0
9/18/2024 11:57	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.47	-0.52	1	1	0	600	600	0
9/18/2024 11:58	54501	ENOL_T2	4	4	0	0.15	0.28	0.13	0	0	0	0	0	0	0	0
9/18/2024 11:58	54502	ENOL_T2	1	7	6	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
9/18/2024 11:58	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
9/18/2024 11:58	10801	CHHI_T1	0	0	0	0	0	0	-0.4	-0.48	1	1	0	900	900	0
9/18/2024 11:58	54506	ENOL_T2	0	0	0	0	0	0	0.86	0.87	1	1	0	600	600	0
9/18/2024 11:59	40802	EXCH_T2	0	0	0	0	0	0	0.32	0.1	0	0	0	0	0	0
9/18/2024 11:59	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/18/2024 12:00	53901	HALI_T2	1	1	0	0.7	0.9	0.2	-1.17	-1.15	0	0	0	0	0	0
9/18/2024 12:00	53903	HALI_T2	2	2	0	1.1	1.35	0.25	0	0	0	0	0	0	0	0
9/18/2024 12:00	53902	HALI_T2	1	1	0	4.8	5.3	0.5	0	0	0	0	0	0	0	0
9/18/2024 12:02	63501	HEID_TBK1-2	47	47	0	1.07	0.99	-0.08	0.31	0.31	1	1	0	900	900	0
9/18/2024 12:03	63501	HEID_TBK1-2	47	47	0	1.07	0.99	-0.08	0.31	0.31	1	1	0	900	900	0
9/18/2024 12:07	67203	TEHI_T1	0	3	3	0	1.1	1.1	0	0	0	0	0	0	0	0
9/18/2024 12:07	67201	TEHI_T1	0	0	0	0	0	0	0.59	0.83	2	2	0	1500	1500	0
9/18/2024 12:09	66703	STRA_T1	0	0	0	0	0	0	0.24	0.33	0	0	0	0	0	0
9/18/2024 12:15	47901	HRDG_T1	0	0	0	0	0	0	0.73	0.96	1	1	0	1200	1200	0
9/18/2024 12:16	45802	HEGI_T2	1	21	20	0.2	0.6	0.4	0.82	0.8	1	1	0	900	900	0
9/18/2024 12:16	20201	JERM_T1	0	0	0	0	0	0	0.17	-0.24	2	2	0	2400	2400	0
9/18/2024 12:17	45802	HEGI_T2	1	21	20	0.2	0.6	0.4	0.82	0.8	1	1	0	900	900	0
9/18/2024 12:19	56501	ROCK_T2	2	3	1	0.25	0.3	0.05	0.07	0.06	0	0	0	0	0	0
9/18/2024 12:20	56501	ROCK_T2	2	3	1	0.25	0.3	0.05	0.07	0.06	0	0	0	0	0	0
9/18/2024 12:22	56501	ROCK_T2	2	3	1	0.25	0.3	0.05	0.06	0.07	0	0	0	0	0	0
9/18/2024 12:22	60502	NMAN_T2	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
9/18/2024 12:24	10805	CHHI_T2	1	1	0	7.4	7.3	-0.1	-1.41	-1.34	2	2	0	1800	1800	0
9/18/2024 12:24	13905	SEID_T1	0	0	0	0	0	0	0.48	0.43	0	0	0	0	0	0
9/18/2024 12:27	44801	EDAN_T2	47	51	4	0.33	0.34	0.01	-1.56	-1.54	0	0	0	0	0	0
9/18/2024 12:29	61801	EELI_T2	2	2	0	0.15	0.2	0.05	-0.42	-0.42	1	1	0	600	600	0
9/18/2024 12:30	45802	HEGI_T2	1	21	20	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
9/18/2024 12:30	44801	EDAN_T2	40	50	10	0.28	0.34	0.06	-1.56	-1.54	0	0	0	0	0	0
9/18/2024 12:33	13101	NHAM_T1	0	0	0	0	0	0	-1.82	-2.62	2	2	0	2400	2400	0
9/18/2024 12:33	14801	TREI_T2	0	0	0	0	0	0	1.46	1.46	0	0	0	0	0	0
9/18/2024 12:33	17002	RIRO_T2	0	0	0	0	0	0	0.66	0.7	0	0	0	0	0	0
9/18/2024 12:33	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 12:33	12006	HATF_T1	0	0	0	0	0	0	0.14	0.36	2	2	0	2400	2400	0
9/18/2024 12:33	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 12:33	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 12:46	58401	MORO_T1	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
9/18/2024 12:47	58401	MORO_T1	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
9/18/2024 12:48	58402	MORO_T1	0	0	0	0	0	0	0	-0.01	2	2	0	1500	1500	0
9/18/2024 12:52	43304	WATS_T2	0	0	0	0	0	0	-0.32	-0.3	0	0	0	0	0	0
9/18/2024 12:54	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 13:02	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/18/2024 13:02	55002	NEWP_T1	6	7	1	0.83	0.91	0.08	-0.4	-0.38	0	0	0	0	0	0
9/18/2024 13:04	55002	NEWP_T1	6	7	1	0.83	0.91	0.08	0	0	0	0	0	0	0	0
9/18/2024 13:04	55001	NEWP_T1	0	1	1	0	0.1	0.1	-0.01	-0.02	0	0	0	0	0	0
9/18/2024 13:05	14404	SSLA_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
9/18/2024 13:05	14404	SSLA_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
9/18/2024 13:05	14404	SSLA_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
9/18/2024 13:05	14404	SSLA_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
9/18/2024 13:08	53501	EVIL_T2	1	2	1	0.3	0.85	0.55	-0.01	-0.06	6	6	0	4200	4200	0
9/18/2024 13:09	53501	EVIL_T2	1	2	1	0.3	0.85	0.55	-0.01	-0.06	6	6	0	4200	4200	0
9/18/2024 13:10	53501	EVIL_T2	1	2	1	0.3	0.85	0.55	-0.01	-0.03	3	3	0	2100	2100	0
9/18/2024 13:12	20603	GRWO_T2	0	0	0	0	0	0	-0.59	-0.56	1	1	0	900	900	0
9/18/2024 13:16	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 13:20	42802	SELI_T1	0	0	0	0	0	0	-0.79	-0.7	1	1	0	900	900	0
9/18/2024 13:21	57205	ROSS_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
9/18/2024 13:21	57203	ROSS_T1	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
9/18/2024 13:23	42802	SELI_T1	0	0	0	0	0	0	-0.7	-0.73	1	1	0	900	900	0
9/18/2024 13:23	57205	ROSS_T1	1	1	0	0.2	0.7	0.5	0.46	0.5	0	0	0	0	0	0
9/18/2024 13:30	50502	MECH_T1	22	2	-20	0.24	1.45	1.21	-0.23	-0.22	1	1	0	900	900	0
9/18/2024 13:30	50501	MECH_T1	4	3	-1	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
9/18/2024 13:31	58401	MORO_T1	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
9/18/2024 13:33	58401	MORO_T1	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
9/18/2024 13:34	50505	MECH_T1	0	0	0	0	0	0	-0.73	-0.7	0	0	0	0	0	0
9/18/2024 13:34	50502	MECH_T1	22	2	-20	0.24	1.45	1.21	0	0	0	0	0	0	0	0
9/18/2024 13:34	58401	MORO_T1	0	0	0	0	0	0	0	0.06	0	0	0	0	0	0
9/18/2024 13:34	50501	MECH_T1	4	3	-1	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
9/18/2024 13:35	57205	ROSS_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/18/2024 13:35	57203	ROSS_T1	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
9/18/2024 13:36	57203	ROSS_T1	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
9/18/2024 13:36	57205	ROSS_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/18/2024 13:38	64602	LEOL_T1	0	0	0	0	0	0	0.36	0.32	0	0	0	0	0	0
9/18/2024 13:40	14705	TREX_T1	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
9/18/2024 13:40	45902	AUBU_T1	0	1	1	0	0.7	0.7	-0.56	-0.74	1	1	0	600	600	0
9/18/2024 13:56	45502	DERR_T2	2	3	1	0.4	0.9	0.5	0.27	0.29	1	1	0	300	300	0
9/18/2024 13:56	45501	DERR_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
9/18/2024 14:05	43802	SWIL_T1	0	0	0	0	0	0	0.05	0.07	1	1	0	600	600	0
9/18/2024 14:05	43801	SWIL_T1	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
9/18/2024 14:09	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/18/2024 14:10	43801	SWIL_T1	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
9/18/2024 14:10	43802	SWIL_T1	0	0	0	0	0	0	0.07	0.07	1	1	0	600	600	0
9/18/2024 14:11	44801	EDAN_T2	21	58	37	0.24	0.48	0.24	-1.49	-1.44	0	0	0	0	0	0
9/18/2024 14:11	14203	EALL_T1	0	0	0	0	0	0	0.28	0.23	1	1	0	1200	1200	0
9/18/2024 14:11	14207	EALL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/18/2024 14:12	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/18/2024 14:12	44801	EDAN_T2	21	58	37	0.24	0.48	0.24	-1.49	-1.44	0	0	0	0	0	0
9/18/2024 14:14	44801	EDAN_T2	21	58	37	0.24	0.48	0.24	-1.49	-1.44	0	0	0	0	0	0
9/18/2024 14:15	46101	MACI_T2	0	0	0	0	0	0	0	0.05	1	1	0	1200	1200	0
9/18/2024 14:19	14201	EALL_T1	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
9/18/2024 14:19	14203	EALL_T1	2	0	-2	5.15	0	-5.15	0	0	0	0	0	0	0	0
9/18/2024 14:32	48301	ORWI_T1	2	2	0	4.75	5.05	0.3	-0.38	-0.36	1	1	0	900	900	0
9/18/2024 14:35	66504	SMAN_T2	0	0	0	0	0	0	-1.2	-1.23	1	1	0	1200	1200	0
9/18/2024 14:35	57403	SPAN_T1	37	85	48	0.28	0.22	-0.06	0	0	0	0	0	0	0	0
9/18/2024 14:35	57401	SPAN_T1	2	2	0	1	1	0	-0.43	-0.42	1	1	0	600	600	0
9/18/2024 14:36	57401	SPAN_T1	2	2	0	1	1	0	0	0	0	0	0	0	0	0
9/18/2024 14:36	66504	SMAN_T2	0	0	0	0	0	0	-1.23	-1.17	1	1	0	1200	1200	0
9/18/2024 14:36	57403	SPAN_T1	37	85	48	0.28	0.22	-0.06	0.22	0.26	0	0	0	0	0	0
9/18/2024 14:38	66504	SMAN_T2	0	0	0	0	0	0	-1.23	-1.17	1	1	0	1200	1200	0
9/18/2024 14:43	20601	GRWO_T2	3	12	9	0.77	0.29	-0.48	1.4	1.35	0	0	0	0	0	0
9/18/2024 14:45	13503	MCMI_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/18/2024 14:46	44502	HAMI_T2	1	1	0	2.1	2.5	0.4	0	0	0	0	0	0	0	0
9/18/2024 14:46	44503	HAMI_T2	0	0	0	0	0	0	-0.98	-1.01	1	1	0	1200	1200	0
9/18/2024 14:48	41204	KENM_T2	0	0	0	0	0	0	0.45	0.49	0	0	0	0	0	0
9/18/2024 14:49	13503	MCMI_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 14:50	13503	MCMI_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 14:52	57403	SPAN_T1	84	95	11	0.22	0.24	0.02	0.13	0.13	0	0	0	0	0	0
9/18/2024 14:52	57401	SPAN_T1	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
9/18/2024 14:54	13704	SCHN_T2	0	1	1	0	0.1	0.1	-0.08	-0.09	0	0	0	0	0	0
9/18/2024 14:58	40201	BEGA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/18/2024 15:02	46101	MACI_T2	0	0	0	0	0	0	0.08	1.27	1	0	-1	1200	0	-1200
9/18/2024 15:04	13302	ORVI_T2	0	0	0	0	0	0	1.91	1.92	0	0	0	0	0	0
9/18/2024 15:06	67203	TEHI_T1	0	0	0	0	0	0	2.79	2.73	3	2	-1	2100	1500	-600
9/18/2024 15:06	67201	TEHI_T1	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
9/18/2024 15:08	57403	SPAN_T1	18	96	78	0.3	0.24	-0.06	0.13	0.12	0	0	0	0	0	0
9/18/2024 15:08	57401	SPAN_T1	2	2	0	0.9	1.15	0.25	0	0	0	0	0	0	0	0
9/18/2024 15:09	57403	SPAN_T1	18	96	78	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
9/18/2024 15:09	57401	SPAN_T1	2	2	0	0.9	1.15	0.25	-0.42	-0.46	1	1	0	600	600	0
9/18/2024 15:09	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 15:10	57403	SPAN_T1	18	96	78	0.3	0.24	-0.06	0.13	0.12	0	0	0	0	0	0
9/18/2024 15:10	57401	SPAN_T1	2	2	0	0.9	1.15	0.25	0	0	0	0	0	0	0	0
9/18/2024 15:11	57401	SPAN_T1	2	2	0	0.9	1.15	0.25	0	0	0	0	0	0	0	0
9/18/2024 15:11	57403	SPAN_T1	18	96	78	0.3	0.24	-0.06	0.13	0.12	0	0	0	0	0	0
9/18/2024 15:15	42902	MIDD_T2	0	0	0	0	0	0	-1.18	-1.5	2	2	0	1200	1200	0
9/18/2024 15:16	64202	KINZ_T1	3	2	-1	0.97	0.3	-0.67	0	0	0	0	0	0	0	0
9/18/2024 15:16	64203	KINZ_T1	0	0	0	0	0	0	0.3	0.14	2	2	0	900	900	0
9/18/2024 15:16	64204	KINZ_T1	1	1	0	1.8	1.1	-0.7	0	0	0	0	0	0	0	0
9/18/2024 15:18	42902	MIDD_T2	0	0	0	0	0	0	-0.59	-0.75	1	1	0	600	600	0
9/18/2024 15:19	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 15:19	26704	HEMI_T2	43	3	-40	0.15	0.1	-0.05	-0.41	-0.4	1	1	0	1200	1200	0
9/18/2024 15:24	45501	DERR_T2	0	1	1	0	0.2	0.2	0.69	0.66	2	2	0	1800	1800	0
9/18/2024 15:30	24105	EHAZ_T1	4	4	0	6.08	6.13	0.05	0	0	0	0	0	0	0	0
9/18/2024 15:30	24102	EHAZ_T1	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
9/18/2024 15:32	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 15:37	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 15:37	43402	BENT_T1	0	0	0	0	0	0	-0.33	-0.26	1	1	0	600	600	0
9/18/2024 15:39	43402	BENT_T1	0	0	0	0	0	0	-0.33	-0.26	1	1	0	600	600	0
9/18/2024 15:39	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 15:40	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 15:51	55405	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 15:54	66504	SMAN_T2	0	0	0	0	0	0	-1.97	-2.14	2	2	0	2400	2400	0
9/18/2024 15:54	44301	BEAV_T2	0	0	0	0	0	0	-0.06	-0.06	1	1	0	600	600	0
9/18/2024 15:55	66504	SMAN_T2	0	0	0	0	0	0	-0.99	-1.07	1	1	0	1200	1200	0
9/18/2024 15:56	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 15:58	21206	ECAR_T2	1	1	0	7.1	6.9	-0.2	0.45	0.5	0	0	0	0	0	0
9/18/2024 15:58	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 16:04	64101	REFR_T1	0	18	18	0	0.37	0.37	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 16:06	64101	REFR_T1	0	18	18	0	0.37	0.37	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 16:12	44301	BEAV_T2	0	0	0	0	0	0	-0.12	0.2	2	2	0	1200	1200	0
9/18/2024 16:17	22602	KIMB_T1	1	1	0	0.4	0.1	-0.3	0.4	0.36	0	0	0	0	0	0
9/18/2024 16:25	24801	VALM_T1	0	0	0	0	0	0	-0.27	-0.23	0	0	0	0	0	0
9/18/2024 16:27	61001	DONV_T1	0	0	0	0	0	0	0.06	0.11	0	0	0	0	0	0
9/18/2024 16:27	21204	ECAR_T2	1	1	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
9/18/2024 16:27	10602	BLGL_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
9/18/2024 16:27	21206	ECAR_T2	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0	0
9/18/2024 16:35	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/18/2024 16:43	27101	GFLD_T2	0	0	0	0	0	0	0.37	0.33	0	0	0	0	0	0
9/18/2024 16:43	27102	GFLD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/18/2024 16:45	40801	EXCH_T2	3	7	4	0.17	0.32	0.15	0	0	0	0	0	0	0	0
9/18/2024 16:45	40802	EXCH_T2	1	21	20	0.4	0.13	-0.27	-0.22	-0.19	0	0	0	0	0	0
9/18/2024 16:51	16504	STRO_T1	0	0	0	0	0	0	0.86	0.86	0	0	0	0	0	0
9/18/2024 16:52	43304	WATS_T2	0	2	2	0	0	0	-0.32	-0.32	0	0	0	0	0	0
9/18/2024 16:52	43302	WATS_T2	4	4	0	0.5	0.73	0.23	0	0	0	0	0	0	0	0
9/18/2024 16:52	43301	WATS_T2	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/18/2024 16:52	64902	MILL_T2	0	0	0	0	0	0	-0.97	-0.93	1	1	0	900	900	0
9/18/2024 16:54	67402	WAKE_T2	0	0	0	0	0	0	-0.13	-0.08	1	1	0	600	600	0
9/18/2024 16:58	28704	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 16:58	63305	GREE_T1	2	4	2	0.2	0.25	0.05	-1.83	-1.84	1	1	0	900	900	0
9/18/2024 16:58	28703	HAMI_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
9/18/2024 16:59	63305	GREE_T1	2	4	2	0.2	0.25	0.05	-1.83	-1.84	1	1	0	900	900	0
9/18/2024 17:03	54506	ENOL_T2	0	0	0	0	0	0	1.05	1.11	0	1	1	0	600	600
9/18/2024 17:03	54505	ENOL_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
9/18/2024 17:07	16504	STRO_T1	0	0	0	0	0	0	0.86	0.85	0	0	0	0	0	0
9/18/2024 17:09	57401	SPAN_T1	2	4	2	0.9	0.75	-0.15	-0.83	-0.83	1	1	0	600	600	0
9/18/2024 17:09	57403	SPAN_T1	10	19	9	0.14	0.32	0.18	0	0	0	0	0	0	0	0
9/18/2024 17:10	57401	SPAN_T1	2	4	2	0.9	0.75	-0.15	-0.83	-0.83	1	1	0	600	600	0
9/18/2024 17:10	57403	SPAN_T1	10	19	9	0.14	0.32	0.18	0	0	0	0	0	0	0	0
9/18/2024 17:11	43302	WATS_T2	4	4	0	0.2	0.73	0.53	0	0	0	0	0	0	0	0
9/18/2024 17:11	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/18/2024 17:11	43304	WATS_T2	2	0	-2	0.1	0	-0.1	-0.32	-0.35	0	0	0	0	0	0
9/18/2024 17:13	57401	SPAN_T1	2	4	2	0.9	0.75	-0.15	-2.49	-2.5	3	3	0	1800	1800	0
9/18/2024 17:13	57403	SPAN_T1	10	19	9	0.14	0.32	0.18	0	0	0	0	0	0	0	0
9/18/2024 17:17	63401	HONY_T1	0	0	0	0	0	0	0.07	0.05	1	1	0	600	600	0
9/18/2024 17:17	63501	HEID_TBK1-2	48	49	1	0.86	0.82	-0.04	0.02	0.01	1	1	0	900	900	0
9/18/2024 17:22	48302	ORWI_T2	2	2	0	1.05	1.2	0.15	0.18	0.18	0	0	0	0	0	0
9/18/2024 17:22	61802	EELI_T2	1	8	7	0.2	0.3	0.1	-0.05	-0.07	0	0	0	0	0	0
9/18/2024 17:23	61802	EELI_T2	1	8	7	0.2	0.3	0.1	-0.05	-0.07	0	0	0	0	0	0
9/18/2024 17:27	50107	HARR_T3	1	1	0	7.1	6.8	-0.3	0	0	0	0	0	0	0	0
9/18/2024 17:27	50105	HARR_T3	6	6	0	6.2	5.98	-0.22	0	0	0	0	0	0	0	0
9/18/2024 17:27	50103	HARR_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/18/2024 17:33	63401	HONY_T1	0	0	0	0	0	0	0.05	0.02	1	1	0	600	600	0
9/18/2024 17:40	66505	SMAN_T2	0	0	0	0	0	0	0.42	0.58	2	2	0	1500	1500	0
9/18/2024 17:40	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 17:41	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 17:41	66505	SMAN_T2	0	0	0	0	0	0	0.42	0.58	2	2	0	1500	1500	0
9/18/2024 17:42	44502	HAMI_T2	1	2	1	2.5	2.7	0.2	0	0	0	0	0	0	0	0
9/18/2024 17:42	46004	BERW_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
9/18/2024 17:42	44505	HAMI_T2	0	0	0	0	0	0	1.19	1.17	0	0	0	0	0	0
9/18/2024 17:42	46003	BERW_T2	3	16	13	0.13	0.14	0.01	0	0	0	0	0	0	0	0
9/18/2024 17:43	65207	PRIN_T4	1	1	0	0.5	0.4	-0.1	0	0	2	2	0	1800	1800	0
9/18/2024 17:43	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 17:45	48902	FOSP_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
9/18/2024 17:46	45902	AUBU_T1	0	1	1	0	0.2	0.2	-0.74	-0.8	1	1	0	600	600	0
9/18/2024 17:47	40801	EXCH_T2	6	1	-5	0.2	0.1	-0.1	-0.2	-0.23	1	1	0	1200	1200	0
9/18/2024 17:47	40802	EXCH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/18/2024 17:48	20601	GRWO_T2	1	2	1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
9/18/2024 17:48	20603	GRWO_T2	0	0	0	0	0	0	-0.49	-0.51	1	1	0	900	900	0
9/18/2024 17:50	14601	SWHI_T1	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
9/18/2024 17:51	48301	ORWI_T1	2	2	0	5.9	4.75	-1.15	-0.82	1.04	2	0	-2	1800	0	-1800
9/18/2024 17:52	67501	WEWI_T1	0	0	0	0	0	0	-0.81	-0.67	1	1	0	600	600	0
9/18/2024 17:53	14601	SWHI_T1	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
9/18/2024 17:57	10602	BLGL_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
9/18/2024 17:58	24201	PROV_T3	2	100	98	5.05	0.26	-4.79	0	-1.13	2	1	-1	2100	1200	-900
9/18/2024 17:58	24204	PROV_T3	1	25	24	5.9	0.37	-5.53	0	0	0	0	0	0	0	0
9/18/2024 17:59	63501	HEID_TBK1-2	48	49	1	0.88	0.67	-0.21	-0.03	-0.01	1	1	0	900	900	0
9/18/2024 18:01	10705	CATA_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
9/18/2024 18:03	10705	CATA_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
9/18/2024 18:03	63501	HEID_TBK1-2	49	49	0	0.8	0.66	-0.14	-0.03	-0.01	1	1	0	900	900	0
9/18/2024 18:09	24902	WHHA_T1	1	3	2	0.4	0.4	0	0.8	0.79	0	0	0	0	0	0
9/18/2024 18:10	14502	SCIO_T1	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
9/18/2024 18:11	46203	DANV_T2	1	1	0	6.8	7.5	0.7	0	0	0	0	0	0	0	0
9/18/2024 18:11	46206	DANV_T2	1	1	0	1.2	0.1	-1.1	0	0	0	0	0	0	0	0
9/18/2024 18:11	21501	CEAV_T2	0	0	0	0	0	0	0.51	0.07	0	0	0	0	0	0
9/18/2024 18:11	16102	BING_T2	0	0	0	0	0	0	-0.09	-0.12	1	1	0	1200	1200	0
9/18/2024 18:11	46205	DANV_T2	0	0	0	0	0	0	-0.66	0.65	1	0	-1	1200	0	-1200
9/18/2024 18:12	24902	WHHA_T1	1	3	2	0.4	0.4	0	0.8	0.79	0	0	0	0	0	0
9/18/2024 18:12	44302	BEAV_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
9/18/2024 19:54	13905	SEID_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
9/18/2024 20:21	64101	REFR_T1	208	208	0	0.71	0.63	-0.08	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 20:22	64101	REFR_T1	208	208	0	0.71	0.63	-0.08	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 20:26	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 20:33	45702	LIND_T2	0	1	1	0	0.1	0.1	-0.38	-0.41	0	0	0	0	0	0
9/18/2024 20:41	15702	TANN_T2	9	62	53	0.11	0.2	0.09	-0.3	-0.34	0	0	0	0	0	0
9/18/2024 20:41	15703	TANN_T2	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
9/18/2024 20:46	48302	ORWI_T2	2	2	0	1.5	1.85	0.35	0.01	0	0	0	0	0	0	0
9/18/2024 20:48	45702	LIND_T2	0	1	1	0	0.5	0.5	-0.41	-0.46	0	0	0	0	0	0
9/18/2024 20:50	55002	NEWP_T1	6	6	0	0.97	0.92	-0.05	-0.18	-0.18	0	0	0	0	0	0
9/18/2024 20:50	14705	TREX_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
9/18/2024 20:51	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/18/2024 20:51	67402	WAKE_T2	0	0	0	0	0	0	-0.26	-0.28	1	1	0	600	600	0
9/18/2024 20:51	10705	CATA_T2	0	0	0	0	0	0	0.59	0.48	0	0	0	0	0	0
9/18/2024 20:52	15703	TANN_T2	1	5	4	4.8	1.06	-3.74	0	0	0	0	0	0	0	0
9/18/2024 20:52	13905	SEID_T1	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
9/18/2024 20:52	15702	TANN_T2	62	49	-13	0.2	0.17	-0.03	-0.34	-0.35	0	0	0	0	0	0
9/18/2024 20:53	67203	TEHI_T1	1	1	0	1.1	0	-1.1	2.37	2.43	2	2	0	1500	1500	0
9/18/2024 20:53	16102	BING_T2	0	0	0	0	0	0	-0.18	-0.24	1	1	0	1200	1200	0
9/18/2024 20:53	15604	NSTR_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
9/18/2024 20:55	57403	SPAN_T1	43	90	47	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
9/18/2024 20:55	50505	MECH_T1	0	0	0	0	0	0	-0.68	-0.71	0	0	0	0	0	0
9/18/2024 20:55	50502	MECH_T1	128	132	4	0.36	0.48	0.12	0	0	0	0	0	0	0	0
9/18/2024 20:55	57401	SPAN_T1	2	20	18	1	0.23	-0.77	-0.57	-0.58	1	1	0	600	600	0
9/18/2024 20:56	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/18/2024 20:56	13101	NHAM_T1	0	0	0	0	0	0	-2.71	-2.78	2	2	0	2400	2400	0
9/18/2024 20:56	11604	CEAL_T1	0	4	4	0	0.88	0.88	0	0	0	0	0	0	0	0
9/18/2024 20:56	14801	TREI_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
9/18/2024 20:56	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 20:57	15603	NSTR_T2	0	0	0	0	0	0	-0.29	-0.25	0	0	0	0	0	0
9/18/2024 20:57	57201	ROSS_T1	0	11	11	0	0.14	0.14	0	0	0	0	0	0	0	0
9/18/2024 20:57	15601	NSTR_T2	3	3	0	0.37	0.6	0.23	0	0	0	0	0	0	0	0
9/18/2024 20:57	57203	ROSS_T1	0	2	2	0	0.1	0.1	-0.2	-0.18	0	0	0	0	0	0
9/18/2024 20:58	15703	TANN_T2	1	5	4	4.8	1.06	-3.74	0	0	0	0	0	0	0	0
9/18/2024 20:58	15702	TANN_T2	62	49	-13	0.2	0.17	-0.03	-0.34	-0.35	0	0	0	0	0	0
9/18/2024 20:58	14201	EALL_T1	0	0	0	0	0	0	0.69	0.74	0	0	0	0	0	0
9/18/2024 20:58	50502	MECH_T1	128	132	4	0.36	0.48	0.12	-0.34	-0.33	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/18/2024 20:58	14204	EALL_T2	0	0	0	0	0	0	-0.17	-0.34	0	0	0	0	0	0
9/18/2024 20:58	64101	REFR_T1	208	203	-5	0.79	0.23	-0.56	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 20:59	57403	SPAN_T1	43	90	47	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
9/18/2024 20:59	52004	LING_T2	2	2	0	5.75	5.95	0.2	0.24	0.24	0	0	0	0	0	0
9/18/2024 20:59	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 20:59	57401	SPAN_T1	2	20	18	1	0.23	-0.77	-0.57	-0.58	1	1	0	600	600	0
9/18/2024 21:00	13302	ORVI_T2	0	0	0	0	0	0	1.75	1.66	0	0	0	0	0	0
9/18/2024 21:00	52004	LING_T2	2	2	0	5.8	6.05	0.25	0.24	0.24	0	0	0	0	0	0
9/18/2024 21:00	28704	HAML_T2	0	1	1	0	0.1	0.1	-0.01	0.03	0	0	0	0	0	0
9/18/2024 21:00	10602	BLGL_T2	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
9/18/2024 21:00	28703	HAML_T2	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0	0
9/18/2024 21:00	24801	VALM_T1	0	0	0	0	0	0	-0.24	-0.28	0	0	0	0	0	0
9/18/2024 21:00	27101	GFLD_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
9/18/2024 21:00	10701	CATA_T2	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
9/18/2024 21:01	53501	EVIL_T2	1	2	1	0.6	0.7	0.1	-1.34	-1.16	2	2	0	1200	1200	0
9/18/2024 21:01	40801	EXCH_T2	0	0	0	0	0	0	0.98	0.98	0	0	0	0	0	0
9/18/2024 21:01	26704	HEML_T2	4	38	34	0.1	0.14	0.04	-0.72	-0.72	1	1	0	1200	1200	0
9/18/2024 21:01	57201	ROSS_T1	1	11	10	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/18/2024 21:01	57203	ROSS_T1	0	2	2	0	0.1	0.1	-0.1	-0.09	0	0	0	0	0	0
9/18/2024 21:01	63304	GREE_T1	0	20	20	0	0.12	0.12	0	0	0	0	0	0	0	0
9/18/2024 21:01	63305	GREE_T1	14	19	5	0.35	0.35	0	-2.02	-2	1	1	0	900	900	0
9/18/2024 21:01	14801	TREI_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
9/18/2024 21:01	48301	ORWI_T1	2	2	0	4.8	5.1	0.3	0.43	0.39	0	0	0	0	0	0
9/18/2024 21:01	63306	GREE_T1	0	16	16	0	0.13	0.13	0	0	0	0	0	0	0	0
9/18/2024 21:02	14404	SSLA_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
9/18/2024 21:02	14401	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/18/2024 21:02	10705	CATA_T2	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
9/18/2024 21:02	10705	CATA_T2	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
9/18/2024 21:02	10705	CATA_T2	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
9/18/2024 21:02	10705	CATA_T2	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
9/18/2024 21:02	64101	REFR_T1	203	6	-197	0.57	0.4	-0.17	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 21:02	40802	EXCH_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
9/18/2024 21:02	20601	GRWO_T2	0	1	1	0	0	0	1.08	1.04	0	0	0	0	0	0
9/18/2024 21:02	48902	FOSP_T2	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
9/18/2024 21:03	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 21:03	63501	HEID_TBK1-2	24	76	52	0.54	0.21	-0.33	-0.09	-0.11	1	1	0	900	900	0
9/18/2024 21:03	57403	SPAN_T1	78	121	43	0.3	0.31	0.01	0	0	0	0	0	0	0	0
9/18/2024 21:03	14404	SSLA_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
9/18/2024 21:03	45902	AUBU_T1	61	12	-49	0.19	0.18	-0.01	-0.84	-0.82	1	1	0	600	600	0
9/18/2024 21:03	57401	SPAN_T1	2	21	19	1	0.23	-0.77	-0.57	-0.58	1	1	0	600	600	0
9/18/2024 21:03	14601	SWHI_T1	0	0	0	0	0	0	-1.48	-1.48	0	0	0	0	0	0
9/18/2024 21:03	14401	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/18/2024 21:03	14502	SCHO_T1	0	0	0	0	0	0	0.53	0.57	0	0	0	0	0	0
9/18/2024 21:04	20603	GRWO_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
9/18/2024 21:04	57401	SPAN_T1	2	21	19	1	0.23	-0.77	-1.14	-1.16	2	2	0	1200	1200	0
9/18/2024 21:04	60801	BUCK_T1	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
9/18/2024 21:04	57205	ROSS_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
9/18/2024 21:04	10805	CHHI_T2	1	1	0	8.2	8.4	0.2	-0.76	-0.77	1	1	0	600	600	0
9/18/2024 21:04	43801	SWIL_T1	102	132	30	0.35	0.36	0.01	0	0	0	0	0	0	0	0
9/18/2024 21:04	56501	ROCK_T2	2	3	1	0.2	0.57	0.37	0.24	0.17	0	0	0	0	0	0
9/18/2024 21:04	43802	SWIL_T1	14	36	22	0.12	0.13	0.01	0.11	0.12	1	1	0	600	600	0
9/18/2024 21:04	57203	ROSS_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/18/2024 21:04	57201	ROSS_T1	1	11	10	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/18/2024 21:04	15604	NSTR_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
9/18/2024 21:04	57403	SPAN_T1	78	121	43	0.3	0.31	0.01	0	0	0	0	0	0	0	0
9/18/2024 21:04	64101	REFR_T1	203	6	-197	0.57	0.4	-0.17	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 21:04	20601	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 21:04	60803	BUCK_T1	0	7	7	0	0.14	0.14	0	0	0	0	0	0	0	0
9/18/2024 21:04	45902	AUBU_T1	61	12	-49	0.19	0.18	-0.01	-0.84	-0.82	1	1	0	600	600	0
9/18/2024 21:04	64602	LEOL_T1	0	0	0	0	0	0	0.16	0.23	0	0	0	0	0	0
9/18/2024 21:05	57401	SPAN_T1	2	21	19	1	0.23	-0.77	0	0	0	0	0	0	0	0
9/18/2024 21:05	45802	HEGI_T2	7	42	35	0.27	0.72	0.45	0	0	0	0	0	0	0	0
9/18/2024 21:05	61001	DONV_T1	0	0	0	0	0	0	0.03	0.08	0	0	0	0	0	0
9/18/2024 21:05	45902	AUBU_T1	61	12	-49	0.19	0.18	-0.01	-0.84	-0.82	1	1	0	600	600	0
9/18/2024 21:05	40801	EXCH_T2	0	0	0	0	0	0	1.96	1.96	0	0	0	0	0	0
9/18/2024 21:05	10705	CATA_T2	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
9/18/2024 21:05	63304	GREE_T1	0	20	20	0	0.12	0.12	0	0	0	0	0	0	0	0
9/18/2024 21:05	25402	LAHA_T2	0	10	10	0	0.14	0.14	-0.85	-0.88	0	0	0	0	0	0
9/18/2024 21:05	40201	BEGA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/18/2024 21:05	63306	GREE_T1	0	16	16	0	0.13	0.13	0	0	0	0	0	0	0	0
9/18/2024 21:05	25404	LAHA_T2	51	244	193	0.12	0.18	0.06	0	0	0	0	0	0	0	0
9/18/2024 21:05	48301	ORWI_T1	2	2	0	4.8	5.1	0.3	0.43	0.39	0	0	0	0	0	0
9/18/2024 21:05	55405	SHER_T1	6	6	0	0.85	1.27	0.42	0	0	0	0	0	0	0	0
9/18/2024 21:05	24902	WHHA_T1	0	0	0	0	0	0	0.76	0.78	0	0	0	0	0	0
9/18/2024 21:05	63305	GREE_T1	14	19	5	0.35	0.35	0	-2.02	-2	1	1	0	900	900	0
9/18/2024 21:05	14801	TREI_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
9/18/2024 21:05	57403	SPAN_T1	78	121	43	0.3	0.31	0.01	0.15	0.13	0	0	0	0	0	0
9/18/2024 21:06	60501	NMAN_T2	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
9/18/2024 21:06	53902	HALI_T2	1	1	0	5	5.3	0.3	0	0	0	0	0	0	0	0
9/18/2024 21:06	53501	EVIL_T2	1	2	1	0.6	0.7	0.1	-0.58	-0.6	1	1	0	600	600	0
9/18/2024 21:06	45902	AUBU_T1	61	12	-49	0.19	0.18	-0.01	-0.84	-0.82	1	1	0	600	600	0
9/18/2024 21:06	24901	WHHA_T1	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
9/18/2024 21:06	63501	HEID_TBK1-2	24	76	52	0.54	0.21	-0.33	-0.11	-0.17	1	1	0	900	900	0
9/18/2024 21:06	45501	DERR_T2	0	1	1	0	0.4	0.4	-0.25	-0.2	4	4	0	3600	3600	0
9/18/2024 21:06	57401	SPAN_T1	2	21	19	1	0.23	-0.77	-0.58	-0.57	1	1	0	600	600	0
9/18/2024 21:06	56501	ROCK_T2	2	3	1	0.2	0.57	0.37	0.17	0.16	0	0	0	0	0	0
9/18/2024 21:06	53903	HALI_T2	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
9/18/2024 21:06	60502	NMAN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 21:06	53901	HALI_T2	1	1	0	0.2	0.8	0.6	-1.09	-1.1	0	0	0	0	0	0
9/18/2024 21:06	40802	EXCH_T2	0	0	0	0	0	0	-0.54	-0.5	0	0	0	0	0	0
9/18/2024 21:06	57403	SPAN_T1	78	121	43	0.3	0.31	0.01	0	0	0	0	0	0	0	0
9/18/2024 21:06	10705	CATA_T2	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
9/18/2024 21:07	66505	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/18/2024 21:07	44505	HAMI_T2	0	0	0	0	0	0	0.54	0.5	0	0	0	0	0	0
9/18/2024 21:07	63501	HEID_TBK1-2	24	76	52	0.54	0.21	-0.33	-0.11	-0.17	1	1	0	900	900	0
9/18/2024 21:07	67201	TEHI_T1	0	0	0	0	0	0	-0.3	-0.22	1	1	0	900	900	0
9/18/2024 21:07	67503	WEWI_T2	1	1	0	7.2	7.8	0.6	0	0	0	0	0	0	0	0
9/18/2024 21:07	54505	ENOL_T2	1	1	0	0.9	1	0.1	-0.65	-0.64	1	1	0	600	600	0
9/18/2024 21:07	60803	BUCK_T1	0	7	7	0	0.14	0.14	0	0	0	0	0	0	0	0
9/18/2024 21:07	46602	LACR_T1	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
9/18/2024 21:07	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/18/2024 21:07	23901	ERMO_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
9/18/2024 21:07	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 21:07	64101	REFR_T1	203	6	-197	0.57	0.4	-0.17	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 21:07	42902	MIDD_T2	1	0	-1	0.8	0	-0.8	-0.16	-0.23	0	0	0	0	0	0
9/18/2024 21:07	63401	HONY_T1	0	0	0	0	0	0	0.65	0.57	0	0	0	0	0	0
9/18/2024 21:07	40201	BEGA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/18/2024 21:07	67502	WEWI_T2	1	25	24	0.1	0.14	0.04	-1.18	-1.12	1	1	0	900	900	0
9/18/2024 21:07	66504	SMAN_T2	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
9/18/2024 21:07	24204	PROV_T3	21	51	30	0.44	0.29	-0.15	0	0	0	0	0	0	0	0
9/18/2024 21:07	57401	SPAN_T1	2	21	19	1	0.23	-0.77	0	0	0	0	0	0	0	0
9/18/2024 21:07	57403	SPAN_T1	78	121	43	0.3	0.31	0.01	0.13	0.12	0	0	0	0	0	0
9/18/2024 21:07	44502	HAMI_T2	1	1	0	2.9	2.8	-0.1	0	0	0	0	0	0	0	0
9/18/2024 21:07	46004	BERW_T2	0	0	0	0	0	0	-0.08	-0.14	0	0	0	0	0	0
9/18/2024 21:07	45502	DERR_T2	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
9/18/2024 21:07	60801	BUCK_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
9/18/2024 21:07	24201	PROV_T3	119	243	124	0.22	0.23	0.01	-1.28	-1.27	1	1	0	1200	1200	0
9/18/2024 21:07	45501	DERR_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/18/2024 21:07	67203	TEHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/18/2024 21:07	52001	LING_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
9/18/2024 21:08	40802	EXCH_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
9/18/2024 21:08	54601	SUMM_T2	7	9	2	0.23	0.39	0.16	-1.67	-1.66	2	2	0	2100	2100	0
9/18/2024 21:08	59101	WALK_T2	1	1	0	0.7	2.1	1.4	0.72	1.29	1	0	-1	600	0	-600
9/18/2024 21:08	55002	NEWP_T1	6	6	0	0.92	0.8	-0.12	0	0	0	0	0	0	0	0
9/18/2024 21:08	43402	BENT_T1	0	0	0	0	0	0	-0.59	-0.6	1	1	0	600	600	0
9/18/2024 21:08	53501	EVIL_T2	1	2	1	0.6	0.7	0.1	-0.58	-0.6	1	1	0	600	600	0
9/18/2024 21:08	60501	NMAN_T2	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
9/18/2024 21:08	64101	REFR_T1	203	6	-197	0.57	0.4	-0.17	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 21:08	44601	SALE_T2	0	0	0	0	0	0	0	0	1	1	0	300	300	0
9/18/2024 21:08	55001	NEWP_T1	0	0	0	0	0	0	-0.04	-0.08	0	0	0	0	0	0
9/18/2024 21:08	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 21:08	66505	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/18/2024 21:08	66504	SMAN_T2	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
9/18/2024 21:08	24902	WHHA_T1	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
9/18/2024 21:08	64305	LINC_T1	0	0	0	0	0	0	-0.3	-0.39	0	0	0	0	0	0
9/18/2024 21:09	40201	BEGA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/18/2024 21:09	10801	CHHI_T1	0	0	0	0	0	0	-1.22	-1.28	2	2	0	1500	1500	0
9/18/2024 21:09	61802	EELI_T2	0	0	0	0	0	0	-0.14	-0.18	0	0	0	0	0	0
9/18/2024 21:09	66505	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/18/2024 21:09	46101	MACI_T2	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
9/18/2024 21:09	66504	SMAN_T2	0	0	0	0	0	0	-0.15	-0.24	0	0	0	0	0	0
9/18/2024 21:09	12006	HATF_T1	0	0	0	0	0	0	0.57	0.51	1	1	0	1200	1200	0
9/18/2024 21:09	59101	WALK_T2	1	1	0	0.7	2.1	1.4	0.72	1.29	1	0	-1	600	0	-600
9/18/2024 21:10	64101	REFR_T1	203	6	-197	0.57	0.4	-0.17	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 21:10	66505	SMAN_T2	0	1	1	0	0.2	0.2	0.27	0.27	2	2	0	1500	1500	0
9/18/2024 21:10	41205	KENM_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
9/18/2024 21:10	50107	HARR_T3	1	1	0	6.7	6.2	-0.5	0	0	0	0	0	0	0	0
9/18/2024 21:10	46101	MACI_T2	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
9/18/2024 21:10	50103	HARR_T3	2	2	0	0.6	1.05	0.45	0	0	0	0	0	0	0	0
9/18/2024 21:10	40201	BEGA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/18/2024 21:10	22602	KIMB_T1	1	1	0	0.1	0.3	0.2	0.35	0.35	0	0	0	0	0	0
9/18/2024 21:10	44601	SALE_T2	0	0	0	0	0	0	0	0	1	1	0	300	300	0
9/18/2024 21:10	50201	HARR_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/18/2024 21:10	46203	DANV_T2	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
9/18/2024 21:10	20201	JERM_T1	2	2	0	0.15	0.25	0.1	-0.83	-0.31	2	2	0	2400	2400	0
9/18/2024 21:10	55002	NEWP_T1	6	6	0	0.92	0.8	-0.12	-0.21	-0.22	0	0	0	0	0	0
9/18/2024 21:10	66504	SMAN_T2	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
9/18/2024 21:10	50202	HARR_T3	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/18/2024 21:10	50105	HARR_T3	6	6	0	5.47	5.27	-0.2	0	0	0	0	0	0	0	0
9/18/2024 21:10	56501	ROCK_T2	2	3	1	0.2	0.57	0.37	0.17	0.16	0	0	0	0	0	0
9/18/2024 21:10	46205	DANV_T2	0	0	0	0	0	0	0.59	0.54	0	0	0	0	0	0
9/18/2024 21:10	42802	SELI_T1	0	0	0	0	0	0	-1.1	-1.2	1	1	0	900	900	0
9/18/2024 21:10	64902	MILL_T2	0	0	0	0	0	0	-1.02	-0.4	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/18/2024 21:10	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 21:11	43302	WATS_T2	4	4	0	0.43	0.6	0.17	0	0	0	0	0	0	0	0
9/18/2024 21:11	55002	NEWP_T1	6	6	0	0.92	0.8	-0.12	-0.21	-0.22	0	0	0	0	0	0
9/18/2024 21:11	45501	DERR_T2	0	1	1	0	0.4	0.4	-0.12	-0.1	2	2	0	1800	1800	0
9/18/2024 21:11	64101	REFR_T1	203	6	-197	0.57	0.4	-0.17	-0.01	-0.01	0	0	0	0	0	0
9/18/2024 21:11	44801	EDAN_T2	45	69	24	0.31	0.38	0.07	-1.54	-1.55	0	0	0	0	0	0
9/18/2024 21:11	43304	WATS_T2	0	0	0	0	0	0	-0.57	-0.61	0	0	0	0	0	0
9/18/2024 21:11	53501	EVIL_T2	1	2	1	0.6	0.7	0.1	-0.58	-0.6	1	1	0	600	600	0
9/18/2024 21:11	57401	SPAN_T1	2	21	19	1	0.23	-0.77	-0.58	-0.57	1	1	0	600	600	0
9/18/2024 21:11	57403	SPAN_T1	78	121	43	0.3	0.31	0.01	0	0	0	0	0	0	0	0
9/18/2024 21:11	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
9/18/2024 21:11	13704	SCHN_T2	0	4	4	0	0.15	0.15	-0.34	-0.32	0	0	0	0	0	0
9/18/2024 21:11	48301	ORWI_T1	2	2	0	4.8	5.1	0.3	0.39	0.39	0	0	0	0	0	0
9/18/2024 21:11	54502	ENOL_T2	0	1	1	0	0.2	0.2	-1.93	-1.89	1	1	0	600	600	0
9/18/2024 21:12	25404	LAHA_T2	51	244	193	0.12	0.18	0.06	0	0	0	0	0	0	0	0
9/18/2024 21:12	40801	EXCH_T2	0	0	0	0	0	0	0.98	0.99	0	0	0	0	0	0
9/18/2024 21:12	46004	BERW_T2	0	0	0	0	0	0	-0.08	-0.14	0	0	0	0	0	0
9/18/2024 21:12	49803	UNIV_T1	1	1	0	5.3	5.2	-0.1	-2.08	-2.15	0	0	0	0	0	0
9/18/2024 21:12	59002	MIFF_T1	5	6	1	0.8	0.48	-0.32	0	0	0	0	0	0	0	0
9/18/2024 21:12	58402	MORO_T1	0	0	0	0	0	0	0.53	0.47	1	1	0	900	900	0
9/18/2024 21:12	45802	HEGI_T2	7	42	35	0.27	0.72	0.45	1.25	1.02	0	0	0	0	0	0
9/18/2024 21:12	44301	BEAV_T2	0	0	0	0	0	0	0.23	0.21	1	1	0	600	600	0
9/18/2024 21:12	24901	WHHA_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
9/18/2024 21:12	25402	LAHA_T2	0	10	10	0	0.14	0.14	-0.88	-0.89	0	0	0	0	0	0
9/18/2024 21:12	59003	MIFF_T1	1	0	-1	0.7	0	-0.7	0.8	0.66	0	0	0	0	0	0
9/18/2024 21:12	44801	EDAN_T2	45	69	24	0.31	0.38	0.07	-1.54	-1.55	0	0	0	0	0	0
9/18/2024 21:12	47901	HRDG_T1	0	0	0	0	0	0	1.33	1.47	0	0	0	0	0	0
9/18/2024 21:12	58401	MORO_T1	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
9/18/2024 21:13	59101	WALK_T2	1	1	0	0.7	2.1	1.4	0.72	1.29	1	0	-1	600	0	-600
9/18/2024 21:13	44502	HAMI_T2	1	1	0	2.9	2.8	-0.1	0	0	0	0	0	0	0	0
9/18/2024 21:13	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
9/18/2024 21:13	63501	HEID_TBK1-2	24	76	52	0.54	0.21	-0.33	-0.11	-0.17	1	1	0	900	900	0
9/18/2024 21:13	40802	EXCH_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
9/18/2024 21:13	43304	WATS_T2	0	0	0	0	0	0	-0.57	-0.61	0	0	0	0	0	0
9/18/2024 21:13	43302	WATS_T2	4	4	0	0.43	0.6	0.17	0	0	0	0	0	0	0	0
9/18/2024 21:13	54504	ENOL_T2	0	0	0	0	0	0	-1.45	-1.44	1	1	0	600	600	0
9/18/2024 21:13	42201	SHEN_T2	0	2	2	0	0.1	0.1	0.12	0.12	1	1	0	600	600	0
9/18/2024 21:13	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/18/2024 21:13	44505	HAMI_T2	0	0	0	0	0	0	0.54	0.5	0	0	0	0	0	0
9/18/2024 21:14	43302	WATS_T2	4	4	0	0.43	0.6	0.17	0	0	0	0	0	0	0	0
9/18/2024 21:14	64202	KINZ_T1	3	3	0	0.53	0.67	0.14	0	0	0	0	0	0	0	0
9/18/2024 21:14	64201	KINZ_T1	1	5	4	1.1	0.46	-0.64	0	0	0	0	0	0	0	0
9/18/2024 21:14	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 21:14	61801	EELI_T2	0	0	0	0	0	0	-0.68	-0.69	1	1	0	600	600	0
9/18/2024 21:14	44301	BEAV_T2	0	0	0	0	0	0	0.23	0.21	1	1	0	600	600	0
9/18/2024 21:14	21204	ECAR_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/18/2024 21:14	64203	KINZ_T1	0	0	0	0	0	0	-0.14	-0.16	1	1	0	600	600	0
9/18/2024 21:14	64204	KINZ_T1	1	4	3	1.1	0.45	-0.65	0	0	0	0	0	0	0	0
9/18/2024 21:14	21206	ECAR_T2	1	1	0	7	7.1	0.1	0.48	0.45	0	0	0	0	0	0
9/18/2024 21:14	66703	STRA_T1	0	0	0	0	0	0	-0.1	-0.15	0	0	0	0	0	0
9/18/2024 21:14	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 21:14	59101	WALK_T2	1	1	0	0.7	2.1	1.4	0.72	1.29	1	0	-1	600	0	-600
9/18/2024 21:15	58401	MORO_T1	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
9/18/2024 21:15	54505	ENOL_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
9/18/2024 21:15	44801	EDAN_T2	68	71	3	0.37	0.39	0.02	-1.54	-1.55	0	0	0	0	0	0
9/18/2024 21:15	40801	EXCH_T2	0	0	0	0	0	0	0.98	0.99	0	0	0	0	0	0
9/18/2024 21:15	43304	WATS_T2	0	0	0	0	0	0	-0.57	-0.61	0	0	0	0	0	0
9/18/2024 21:15	42902	MIDD_T2	0	0	0	0	0	0	-0.16	-0.23	0	0	0	0	0	0
9/18/2024 21:15	66502	SMAN_T2	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
9/18/2024 21:15	43302	WATS_T2	4	4	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
9/18/2024 21:15	42903	MIDD_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/18/2024 21:15	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0.27	0.27	2	2	0	1500	1500	0
9/18/2024 21:15	54502	ENOL_T2	1	1	0	0.2	0.2	0	-1.93	-1.89	1	1	0	600	600	0
9/18/2024 21:16	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
9/18/2024 21:16	46504	LOHA_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/18/2024 21:16	42903	MIDD_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/18/2024 21:16	43802	SWIL_T1	36	0	-36	0.13	0	-0.13	0.12	0.06	1	1	0	600	600	0
9/18/2024 21:16	43801	SWIL_T1	132	24	-108	0.36	0.42	0.06	0	0	0	0	0	0	0	0
9/18/2024 21:16	40201	BEGA_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
9/18/2024 21:16	58401	MORO_T1	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
9/18/2024 21:16	46506	LOHA_T1	4	4	0	4.08	4.43	0.35	0	0	0	0	0	0	0	0
9/18/2024 21:16	43402	BENT_T1	0	0	0	0	0	0	-0.59	-0.6	1	1	0	600	600	0
9/18/2024 21:16	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 21:17	44301	BEAV_T2	0	0	0	0	0	0	0.23	0.21	1	1	0	600	600	0
9/18/2024 21:17	58401	MORO_T1	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
9/18/2024 21:17	42902	MIDD_T2	0	0	0	0	0	0	-0.16	-0.23	0	0	0	0	0	0
9/18/2024 21:17	57403	SPAN_T1	79	171	92	0.34	0.31	-0.03	0.13	0.12	0	0	0	0	0	0
9/18/2024 21:17	57401	SPAN_T1	20	56	36	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
9/18/2024 21:17	42903	MIDD_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/18/2024 21:18	42802	SELI_T1	0	1	1	0	0.7	0.7	-1.1	-1.2	1	1	0	900	900	0
9/18/2024 21:18	55001	NEWP_T1	0	0	0	0	0	0	-0.04	-0.08	0	0	0	0	0	0
9/18/2024 21:18	55002	NEWP_T1	6	6	0	0.77	0.83	0.06	0	0	0	0	0	0	0	0
9/18/2024 21:19	57403	SPAN_T1	79	171	92	0.34	0.31	-0.03	0.13	0.12	0	0	0	0	0	0
9/18/2024 21:19	57401	SPAN_T1	20	56	36	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
9/18/2024 21:20	21501	CEAV_T2	0	0	0	0	0	0	0.85	0.86	0	0	0	0	0	0
9/18/2024 21:21	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
9/18/2024 21:21	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 21:21	64904	MILL_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
9/18/2024 21:21	46504	LOHA_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/18/2024 21:21	64901	MILL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/18/2024 21:21	46506	LOHA_T1	4	0	-4	4.08	4.43	0.35	0	0	0	0	0	0	0	0
9/18/2024 21:22	40201	BEGA_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
9/18/2024 21:50	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 22:02	65206	PRIN_T4	1	2	1	2.5	0	-2.5	0	0	0	0	0	0	0	0
9/18/2024 22:02	65207	PRIN_T4	12	1	-11	0.23	0.9	0.67	0	0	2	2	0	1800	1800	0
9/18/2024 22:46	28805	LAKE_T1	0	2	2	0	0.1	0.1	-0.22	-0.22	0	0	0	0	0	0
9/18/2024 22:46	28803	LAKE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 22:48	28803	LAKE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/18/2024 22:48	28805	LAKE_T1	0	2	2	0	0.1	0.1	-0.22	-0.22	0	0	0	0	0	0
9/19/2024 7:36	67001	STHI_T2	0	93	93	0	0.11	0.11	0	0	0	0	0	0	0	0
9/19/2024 7:36	67002	STHI_T2	0	0	0	0	0	0	0.79	0.86	0	0	0	0	0	0
9/19/2024 7:46	63305	GREE_T1	6	6	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/19/2024 7:46	63306	GREE_T1	0	0	0	0	0	0	-2.11	-2.02	1	1	0	900	900	0
9/19/2024 7:59	54505	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
9/19/2024 7:59	54503	ENOL_T2	0	0	0	0	0	0	-1.05	-1.01	1	1	0	600	600	0
9/19/2024 7:59	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/19/2024 8:02	55002	NEWP_T1	6	6	0	1.28	1.23	-0.05	-0.25	-0.25	0	0	0	0	0	0
9/19/2024 8:06	67504	WEWI_T1	0	0	0	0	0	0	-0.21	-0.15	1	1	0	900	900	0
9/19/2024 8:06	67501	WEWI_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/19/2024 8:08	67001	STHI_T2	35	1	-34	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
9/19/2024 8:08	67002	STHI_T2	0	0	0	0	0	0	0.83	0.85	0	0	0	0	0	0
9/19/2024 8:12	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 8:12	10102	ALLE_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
9/19/2024 8:12	10206	ALLE_T2	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
9/19/2024 8:18	46506	LOHA_T1	3	3	0	5.63	5.73	0.1	0	0	0	0	0	0	0	0
9/19/2024 8:18	46505	LOHA_T1	0	0	0	0	0	0	-0.23	-0.26	1	1	0	600	600	0
9/19/2024 8:18	46504	LOHA_T1	2	2	0	0.95	1.05	0.1	0	0	0	0	0	0	0	0
9/19/2024 8:23	10102	ALLE_T2	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
9/19/2024 8:23	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 8:23	10206	ALLE_T2	1	1	0	1.9	2.2	0.3	0	0	0	0	0	0	0	0
9/19/2024 8:28	62105	ELAN_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
9/19/2024 8:29	50201	HARR_T3	1	1	0	0.4	0.4	0	0	0	1	1	0	1200	1200	0
9/19/2024 8:29	50106	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 8:29	50107	HARR_T3	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
9/19/2024 8:29	50103	HARR_T3	2	2	0	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
9/19/2024 8:29	50105	HARR_T3	6	6	0	5.77	5.73	-0.04	0	0	0	0	0	0	0	0
9/19/2024 8:35	43801	SWIL_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
9/19/2024 8:35	43802	SWIL_T1	0	0	0	0	0	0	-0.06	-0.05	1	1	0	600	600	0
9/19/2024 8:36	57403	SPAN_T1	29	9	-20	0.21	0.14	-0.07	0.01	0.02	0	0	0	0	0	0
9/19/2024 8:36	57401	SPAN_T1	2	2	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
9/19/2024 8:48	13501	MCMI_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
9/19/2024 8:48	13502	MCMI_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
9/19/2024 8:50	60803	BUCK_T1	8	11	3	0.16	0.19	0.03	-1.14	-1.11	1	1	0	600	600	0
9/19/2024 8:50	60801	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 8:52	64904	MILL_T1	0	2	2	0	0	0	-0.37	-0.33	0	0	0	0	0	0
9/19/2024 8:56	54501	ENOL_T2	1	4	3	0.1	0.38	0.28	0	0	0	0	0	0	0	0
9/19/2024 8:56	54504	ENOL_T2	0	0	0	0	0	0	-1.7	-1.69	1	1	0	600	600	0
9/19/2024 8:56	54502	ENOL_T2	1	39	38	0.8	0.14	-0.66	0	0	0	0	0	0	0	0
9/19/2024 8:56	54505	ENOL_T2	1	1	0	0.9	1.3	0.4	-0.65	-0.65	1	1	0	600	600	0
9/19/2024 8:57	54505	ENOL_T2	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
9/19/2024 8:57	54501	ENOL_T2	1	4	3	0.1	0.38	0.28	0	0	0	0	0	0	0	0
9/19/2024 8:57	54502	ENOL_T2	1	39	38	0.8	0.14	-0.66	0	0	0	0	0	0	0	0
9/19/2024 8:57	54504	ENOL_T2	0	0	0	0	0	0	-1.7	-1.69	1	1	0	600	600	0
9/19/2024 8:58	54502	ENOL_T2	1	39	38	0.8	0.14	-0.66	0	0	0	0	0	0	0	0
9/19/2024 8:58	54501	ENOL_T2	1	4	3	0.1	0.38	0.28	0	0	0	0	0	0	0	0
9/19/2024 8:58	54505	ENOL_T2	1	1	0	0.9	1.3	0.4	-0.65	-0.65	1	1	0	600	600	0
9/19/2024 8:59	50103	HARR_T3	2	2	0	0.15	0.5	0.35	0	0	0	0	0	0	0	0
9/19/2024 8:59	50107	HARR_T3	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
9/19/2024 8:59	50201	HARR_T3	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/19/2024 8:59	50105	HARR_T3	6	6	0	5.87	5.72	-0.15	0	0	0	0	0	0	0	0
9/19/2024 9:00	54505	ENOL_T2	1	1	0	1.2	1.3	0.1	-0.65	-0.65	1	1	0	600	600	0
9/19/2024 9:00	54501	ENOL_T2	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0	0
9/19/2024 9:00	54502	ENOL_T2	9	39	30	0.21	0.14	-0.07	-4.06	-4.01	2	2	0	1200	1200	0
9/19/2024 9:03	66502	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/19/2024 9:03	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 9:06	59102	WALK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/19/2024 9:06	59101	WALK_T2	1	1	0	1.4	0.9	-0.5	2.38	2.07	0	0	0	0	0	0
9/19/2024 9:10	59101	WALK_T2	1	1	0	1.4	0.9	-0.5	2.38	2.07	0	0	0	0	0	0
9/19/2024 9:10	45501	DERR_T2	0	0	0	0	0	0	1.31	1.08	4	4	0	3600	3600	0
9/19/2024 9:10	45502	DERR_T2	2	1	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/19/2024 9:10	59102	WALK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/19/2024 9:12	63501	HEID_TBK1-2	48	49	1	0.86	0.41	-0.45	0.26	0.3	1	1	0	900	900	0
9/19/2024 9:13	63501	HEID_TBK1-2	48	49	1	0.86	0.41	-0.45	0.26	0.3	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/19/2024 9:14	63501	HEID_TBK1-2	48	49	1	0.86	0.41	-0.45	0.26	0.3	1	1	0	900	900	0
9/19/2024 9:17	63501	HEID_TBK1-2	48	49	1	0.47	0.51	0.04	0.26	0.3	1	1	0	900	900	0
9/19/2024 9:20	15703	TANN_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
9/19/2024 9:20	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
9/19/2024 9:21	47403	PENS_T1	1	3	2	1.8	0.77	-1.03	0	0	0	0	0	0	0	0
9/19/2024 9:21	47401	PENS_T1	1	2	1	0.1	0.35	0.25	-0.44	-0.47	0	0	0	0	0	0
9/19/2024 9:22	24902	WHHA_T1	1	2	1	0.1	0.2	0.1	0	1.46	0	0	0	0	0	0
9/19/2024 9:28	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 9:28	55002	NEWP_T1	7	6	-1	0.76	0.8	0.04	0	0	0	0	0	0	0	0
9/19/2024 9:29	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 9:29	55002	NEWP_T1	7	6	-1	0.76	0.8	0.04	0	0	0	0	0	0	0	0
9/19/2024 9:30	61001	DONV_T1	0	1	1	0	0.7	0.7	0	-0.12	0	0	0	0	0	0
9/19/2024 9:34	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 9:34	64903	MILL_T2	0	0	0	0	0	0	0.29	0.33	0	0	0	0	0	0
9/19/2024 9:35	67603	WARW_T1	0	0	0	0	0	0	0	0.07	0	0	0	0	0	0
9/19/2024 9:35	67605	WARW_T1	11	13	2	0.3	0.42	0.12	0	0	0	0	0	0	0	0
9/19/2024 9:36	15703	TANN_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
9/19/2024 9:36	15702	TANN_T2	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
9/19/2024 9:38	67605	WARW_T1	11	13	2	0.3	0.42	0.12	-0.97	-0.95	0	0	0	0	0	0
9/19/2024 9:38	20401	ASHF_T2	4	6	2	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
9/19/2024 9:38	20403	ASHF_T2	2	2	0	0.5	1.1	0.6	0.52	0.48	0	0	0	0	0	0
9/19/2024 9:39	20401	ASHF_T2	4	6	2	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
9/19/2024 9:39	67605	WARW_T1	11	13	2	0.3	0.42	0.12	-0.97	-0.95	0	0	0	0	0	0
9/19/2024 9:39	20403	ASHF_T2	2	2	0	0.5	1.1	0.6	1.05	0.96	0	0	0	0	0	0
9/19/2024 9:44	54502	ENOL_T2	4	1	-3	0.38	0.6	0.22	-2	-1.97	1	1	0	600	600	0
9/19/2024 9:44	54501	ENOL_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/19/2024 9:44	61002	DONV_T2	0	0	0	0	0	0	-1.32	0.55	2	1	-1	1200	600	-600
9/19/2024 9:44	63804	HEMP_T1	1	1	0	6.2	5.9	-0.3	-0.19	-0.15	0	0	0	0	0	0
9/19/2024 9:44	63803	HEMP_T1	0	0	0	0	0	0	0.48	0.29	0	0	0	0	0	0
9/19/2024 9:44	54505	ENOL_T2	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
9/19/2024 9:45	63801	HEMP_T1	0	0	0	0	0	0	-0.43	-0.33	1	1	0	900	900	0
9/19/2024 9:45	64305	LINC_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
9/19/2024 9:45	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
9/19/2024 9:45	61301	EARL_T1	0	0	0	0	0	0	-1.02	-1.04	2	2	0	1800	1800	0
9/19/2024 9:54	66505	SMAN_T2	0	0	0	0	0	0	0.45	0.68	3	2	-1	1700	1500	-200
9/19/2024 9:54	66502	SMAN_T2	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
9/19/2024 9:54	66501	SMAN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
9/19/2024 9:58	43301	WATS_T2	1	1	0	0.9	0.8	-0.1	-0.59	-0.54	1	1	0	900	900	0
9/19/2024 9:58	43302	WATS_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/19/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
9/19/2024 10:00	52402	GRPA_T2	1	4	3	0.1	0.75	0.65	0	0	0	0	0	0	0	0
9/19/2024 10:00	47401	PENS_T1	2	2	0	0.25	0.85	0.6	-0.43	-0.41	0	0	0	0	0	0
9/19/2024 10:00	67502	WEWI_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
9/19/2024 10:00	64904	MILL_T1	0	0	0	0	0	0	0.72	0.7	0	0	0	0	0	0
9/19/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
9/19/2024 10:00	55002	NEWP_T1	8	8	0	0.76	1.05	0.29	0	0	0	0	0	0	0	0
9/19/2024 10:00	55001	NEWP_T1	0	0	0	0	0	0	0.05	0.1	0	0	0	0	0	0
9/19/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
9/19/2024 10:00	43802	SWIL_T1	0	0	0	0	0	0	0	0.01	1	1	0	600	600	0
9/19/2024 10:00	28805	LAKE_T1	0	1	1	0	0.2	0.2	-0.21	-0.21	0	0	0	0	0	0
9/19/2024 10:00	47403	PENS_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
9/19/2024 10:00	64903	MILL_T2	0	0	0	0	0	0	0.32	0.28	0	0	0	0	0	0
9/19/2024 10:00	67503	WEWI_T2	1	1	0	8.5	8.4	-0.1	0.05	0.07	0	0	0	0	0	0
9/19/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	-0.38	-0.34	1	1	0	900	900	0
9/19/2024 10:00	52403	GRPA_T2	1	7	6	0.4	0.8	0.4	0.02	0.08	0	0	0	0	0	0
9/19/2024 10:00	28801	LAKE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 10:00	43801	SWIL_T1	2	1	-1	2.65	5.2	2.55	0	0	0	0	0	0	0	0
9/19/2024 10:04	57403	SPAN_T1	40	52	12	0.3	0.25	-0.05	0.12	0.12	0	0	0	0	0	0
9/19/2024 10:04	57401	SPAN_T1	57	86	29	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
9/19/2024 10:05	65802	RTWN_T2	0	1	1	0	0.2	0.2	-0.1	0	0	0	0	0	0	0
9/19/2024 10:06	57403	SPAN_T1	40	52	12	0.3	0.25	-0.05	0.12	0.14	0	0	0	0	0	0
9/19/2024 10:06	57401	SPAN_T1	57	86	29	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
9/19/2024 10:07	57401	SPAN_T1	57	86	29	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
9/19/2024 10:07	43801	SWIL_T1	2	1	-1	2.65	5.2	2.55	0	0	0	0	0	0	0	0
9/19/2024 10:07	43802	SWIL_T1	0	0	0	0	0	0	0.01	0.02	1	1	0	600	600	0
9/19/2024 10:07	15703	TANN_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
9/19/2024 10:07	57403	SPAN_T1	40	52	12	0.3	0.25	-0.05	0.12	0.14	0	0	0	0	0	0
9/19/2024 10:07	15702	TANN_T2	0	0	0	0	0	0	-0.28	-0.34	0	0	0	0	0	0
9/19/2024 10:08	66501	SMAN_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
9/19/2024 10:08	66502	SMAN_T2	2	2	0	0.3	0.65	0.35	0.46	0.53	0	0	0	0	0	0
9/19/2024 10:08	41902	REED_T1	0	1	1	0	0	0	1.17	1.14	0	0	0	0	0	0
9/19/2024 10:08	59101	WALK_T2	1	1	0	2.6	2.4	-0.2	2.46	2.54	0	0	0	0	0	0
9/19/2024 10:08	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/19/2024 10:08	43801	SWIL_T1	2	1	-1	2.65	5.2	2.55	0	0	0	0	0	0	0	0
9/19/2024 10:08	43802	SWIL_T1	0	0	0	0	0	0	0.01	0.02	1	1	0	600	600	0
9/19/2024 10:09	10801	CHHI_T1	0	0	0	0	0	0	-0.51	-0.52	1	1	0	900	900	0
9/19/2024 10:09	66501	SMAN_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
9/19/2024 10:09	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 10:09	64602	LEOL_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
9/19/2024 10:09	66502	SMAN_T2	2	2	0	0.3	0.65	0.35	0	0	0	0	0	0	0	0
9/19/2024 10:10	67201	TEHI_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
9/19/2024 10:10	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/19/2024 10:10	59101	WALK_T2	1	1	0	2.6	2.4	-0.2	2.46	2.54	0	0	0	0	0	0
9/19/2024 10:10	45902	AUBU_T1	0	1	1	0	0.3	0.3	-0.52	-0.47	1	1	0	600	600	0
9/19/2024 10:10	67203	TEHI_T1	1	1	0	0.5	0.3	-0.2	2.99	3.04	3	3	0	2100	2100	0
9/19/2024 10:10	67605	WARW_T1	10	8	-2	0.22	0.28	0.06	-1.86	-1.83	0	0	0	0	0	0
9/19/2024 10:10	15703	TANN_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
9/19/2024 10:10	45501	DERR_T2	0	1	1	0	0.1	0.1	1.27	1.26	4	4	0	3600	3600	0
9/19/2024 10:10	15702	TANN_T2	0	0	0	0	0	0	-0.28	-0.34	0	0	0	0	0	0
9/19/2024 10:11	40702	FFLD_T1	106	92	-14	0.26	0.23	-0.03	-0.95	-0.75	1	1	0	1200	1200	0
9/19/2024 10:11	40703	FFLD_T1	3	0	-3	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
9/19/2024 10:11	40701	FFLD_T1	59	51	-8	0.51	0.49	-0.02	0	0	0	0	0	0	0	0
9/19/2024 10:12	50107	HARR_T3	1	1	0	6	6.2	0.2	0	0	0	0	0	0	0	0
9/19/2024 10:12	50105	HARR_T3	6	6	0	5.85	5.88	0.03	0	0	0	0	0	0	0	0
9/19/2024 10:12	50103	HARR_T3	2	2	0	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
9/19/2024 10:12	50201	HARR_T3	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/19/2024 10:13	15702	TANN_T2	0	0	0	0	0	0	-0.28	-0.34	0	0	0	0	0	0
9/19/2024 10:13	15703	TANN_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
9/19/2024 10:15	63302	GREE_T1	0	0	0	0	0	0	0.9	0.97	0	0	0	0	0	0
9/19/2024 10:16	20601	GRWO_T2	1	2	1	0.1	0.2	0.1	1.37	1.41	0	0	0	0	0	0
9/19/2024 10:16	45802	HEGI_T2	65	108	43	0.48	0.41	-0.07	2.71	2.94	0	0	0	0	0	0
9/19/2024 10:20	66501	SMAN_T2	2	2	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/19/2024 10:20	66502	SMAN_T2	2	1	-1	0.65	0.7	0.05	0	0	0	0	0	0	0	0
9/19/2024 10:20	66505	SMAN_T2	0	0	0	0	0	0	0.68	0.68	2	2	0	1500	1500	0
9/19/2024 10:21	66501	SMAN_T2	2	2	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/19/2024 10:21	43304	WATS_T2	0	1	1	0	0.7	0.7	-0.5	-0.65	0	0	0	0	0	0
9/19/2024 10:21	66504	SMAN_T2	0	0	0	0	0	0	0.05	0.1	0	0	0	0	0	0
9/19/2024 10:21	43301	WATS_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
9/19/2024 10:21	66502	SMAN_T2	2	1	-1	0.65	0.7	0.05	0	0	0	0	0	0	0	0
9/19/2024 10:22	43304	WATS_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
9/19/2024 10:22	64802	MONE_T2	1	2	1	0.2	0.35	0.15	0.41	0.41	0	0	0	0	0	0
9/19/2024 10:22	43301	WATS_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
9/19/2024 10:23	43304	WATS_T2	0	1	1	0	0.7	0.7	-0.5	-0.65	0	0	0	0	0	0
9/19/2024 10:23	43301	WATS_T2	1	2	1	0.5	0.5	0	-0.5	-0.5	1	1	0	900	900	0
9/19/2024 10:25	24902	WHHA_T1	0	1	1	0	0	0	1.51	1.46	0	0	0	0	0	0
9/19/2024 10:26	23902	EFMO_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/19/2024 10:30	46001	BERW_T1	0	0	0	0	0	0	-0.27	-0.01	0	0	0	0	0	0
9/19/2024 10:31	46001	BERW_T1	0	0	0	0	0	0	-0.27	-0.01	0	0	0	0	0	0
9/19/2024 10:31	44601	SALE_T2	2	2	0	1.6	1	-0.6	0	0	4	4	0	1800	1800	0
9/19/2024 10:32	25402	LAHA_T2	1	2	1	0.3	0.35	0.05	-0.47	-0.41	0	0	0	0	0	0
9/19/2024 10:34	57205	ROSS_T1	1	1	0	0.9	1.3	0.4	0.45	0.47	0	0	0	0	0	0
9/19/2024 10:34	67002	STHI_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/19/2024 10:34	67001	STHI_T2	2	2	0	0.15	0.1	-0.05	0.71	0.65	0	0	0	0	0	0
9/19/2024 10:34	57203	ROSS_T1	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
9/19/2024 10:35	24201	PROV_T3	17	29	12	0.56	0.38	-0.18	-1.26	-1.24	1	1	0	1200	1200	0
9/19/2024 10:35	67001	STHI_T2	2	2	0	0.15	0.1	-0.05	0.24	0.22	0	0	0	0	0	0
9/19/2024 10:35	24204	PROV_T3	1	2	1	6	3	-3	0	0	0	0	0	0	0	0
9/19/2024 10:35	57401	SPAN_T1	76	29	-47	0.23	0.34	0.11	-0.7	-0.66	1	1	0	600	600	0
9/19/2024 10:35	67002	STHI_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/19/2024 10:35	57203	ROSS_T1	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
9/19/2024 10:35	57205	ROSS_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
9/19/2024 10:35	57403	SPAN_T1	48	23	-25	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
9/19/2024 10:36	57401	SPAN_T1	76	29	-47	0.23	0.34	0.11	-0.66	-0.53	1	1	0	600	600	0
9/19/2024 10:36	57403	SPAN_T1	48	23	-25	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
9/19/2024 10:37	57403	SPAN_T1	48	23	-25	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
9/19/2024 10:37	57401	SPAN_T1	76	29	-47	0.23	0.34	0.11	-1.32	-1.06	2	2	0	1200	1200	0
9/19/2024 10:38	57403	SPAN_T1	48	23	-25	0.26	0.25	-0.01	0.13	0.13	0	0	0	0	0	0
9/19/2024 10:38	67002	STHI_T2	2	1	-1	0.3	0.4	0.1	1.95	1.99	0	0	0	0	0	0
9/19/2024 10:38	67001	STHI_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/19/2024 10:38	11104	EGYP_T1	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
9/19/2024 10:38	55101	WERT_T1	0	0	0	0	0	0	-2.92	-3.17	9	9	0	7200	7200	0
9/19/2024 10:38	57401	SPAN_T1	76	29	-47	0.23	0.34	0.11	0	0	0	0	0	0	0	0
9/19/2024 10:39	14801	TREI_T2	2	2	0	0.4	0.45	0.05	0.55	0.55	0	0	0	0	0	0
9/19/2024 10:39	67001	STHI_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/19/2024 10:39	67002	STHI_T2	2	1	-1	0.3	0.4	0.1	2.93	2.99	0	0	0	0	0	0
9/19/2024 10:39	55101	WERT_T1	0	0	0	0	0	0	-0.97	-1.06	3	3	0	2400	2400	0
9/19/2024 10:42	48901	FOSP_T2	0	0	0	0	0	0	0	-0.08	1	1	0	600	600	0
9/19/2024 10:43	48901	FOSP_T2	0	0	0	0	0	0	0	-0.08	1	1	0	600	600	0
9/19/2024 10:43	11104	EGYP_T1	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
9/19/2024 10:43	48902	FOSP_T2	0	0	0	0	0	0	-0.1	0.77	1	0	-1	1200	0	-1200
9/19/2024 10:44	57101	SPHI_T2	6	6	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
9/19/2024 10:44	57106	SPHI_T2	3	3	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
9/19/2024 10:44	57104	SPHI_T2	1	1	0	0.9	1.1	0.2	-0.82	-0.75	0	0	0	0	0	0
9/19/2024 10:44	48901	FOSP_T2	0	0	0	0	0	0	0	-0.08	1	1	0	600	600	0
9/19/2024 10:47	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/19/2024 10:47	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/19/2024 10:47	58401	MORO_T1	0	0	0	0	0	0	-0.2	-0.28	0	0	0	0	0	0
9/19/2024 10:47	50105	HARR_T3	6	6	0	6.15	6.22	0.07	0	0	0	0	0	0	0	0
9/19/2024 10:47	50107	HARR_T3	1	1	0	6.9	6.3	-0.6	0	0	0	0	0	0	0	0
9/19/2024 10:49	57203	ROSS_T1	0	0	0	0	0	0	0.56	0.61	0	0	0	0	0	0
9/19/2024 10:49	57205	ROSS_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
9/19/2024 10:50	57205	ROSS_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
9/19/2024 10:50	57203	ROSS_T1	0	0	0	0	0	0	0.56	0.61	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/19/2024 10:51	43802	SWIL_T1	0	0	0	0	0	0	0.1	0.13	2	2	0	1200	1200	0
9/19/2024 10:51	43801	SWIL_T1	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
9/19/2024 10:54	64802	MONE_T2	1	2	1	0.5	0.4	-0.1	0.44	0.48	0	0	0	0	0	0
9/19/2024 10:55	55105	WERT_T1	0	0	0	0	0	0	-0.09	-0.15	1	1	0	900	900	0
9/19/2024 10:57	20401	ASHF_T2	3	6	3	0.3	0.43	0.13	0	0	0	0	0	0	0	0
9/19/2024 10:57	20403	ASHF_T2	3	9	6	0.5	0.51	0.01	0.39	0.59	0	0	0	0	0	0
9/19/2024 10:58	20403	ASHF_T2	3	9	6	0.5	0.51	0.01	0.39	0.59	0	0	0	0	0	0
9/19/2024 10:58	20401	ASHF_T2	3	6	3	0.3	0.43	0.13	0	0	0	0	0	0	0	0
9/19/2024 10:58	45902	AUBU_T1	1	1	0	0.7	1	0.3	-1.11	-0.96	2	2	0	1200	1200	0
9/19/2024 10:59	10805	CHHI_T2	1	1	0	7.8	7.8	0	-1.27	-1.01	2	2	0	1800	1800	0
9/19/2024 11:03	20601	GRWO_T2	7	15	8	0.4	0.53	0.13	1.43	1.48	0	0	0	0	0	0
9/19/2024 11:03	50107	HARR_T3	1	1	0	6.7	6.3	-0.4	0	0	0	0	0	0	0	0
9/19/2024 11:03	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/19/2024 11:03	50105	HARR_T3	6	7	1	6.22	6.33	0.11	0	0	0	0	0	0	0	0
9/19/2024 11:04	16103	BING_T2	0	5	5	0	0	0	-1.29	-1.25	1	1	0	900	900	0
9/19/2024 11:04	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 11:08	67203	TEHI_T1	2	4	2	1.2	1.2	0	0	0	0	0	0	0	0	0
9/19/2024 11:08	67503	WEWI_T2	1	1	0	7.9	7.6	-0.3	0	0	0	0	0	0	0	0
9/19/2024 11:08	67201	TEHI_T1	1	2	1	0.1	0.2	0.1	0.56	1.1	2	2	0	1500	1500	0
9/19/2024 11:08	67502	WEWI_T2	1	2	1	0.7	0.6	-0.1	0.14	0.02	0	0	0	0	0	0
9/19/2024 11:10	67502	WEWI_T2	1	2	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/19/2024 11:10	55101	WERT_T1	0	0	0	0	0	0	-2.06	-1.98	6	6	0	4800	4800	0
9/19/2024 11:10	67503	WEWI_T2	1	1	0	7.9	7.6	-0.3	0.11	0.11	0	0	0	0	0	0
9/19/2024 11:13	67503	WEWI_T2	1	1	0	7.9	7.6	-0.3	0	0	0	0	0	0	0	0
9/19/2024 11:13	67502	WEWI_T2	1	2	1	0.7	0.6	-0.1	0.14	0.02	0	0	0	0	0	0
9/19/2024 11:13	44801	EDAN_T2	52	42	-10	0.35	0.31	-0.04	-1.44	-1.41	0	0	0	0	0	0
9/19/2024 11:14	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 11:14	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 11:14	64204	KINZ_T1	1	2	1	0.7	1.95	1.25	0	0	0	0	0	0	0	0
9/19/2024 11:14	64203	KINZ_T1	1	2	1	0.8	1.3	0.5	1.18	1.18	2	2	0	900	900	0
9/19/2024 11:15	21206	ECAR_T2	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
9/19/2024 11:15	21204	ECAR_T2	1	1	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
9/19/2024 11:15	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0.24	0.26	1	1	0	300	300	0
9/19/2024 11:15	45501	DERR_T2	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
9/19/2024 11:19	66703	STRA_T1	0	0	0	0	0	0	0.31	0.44	0	0	0	0	0	0
9/19/2024 11:22	57401	SPAN_T1	16	19	3	0.52	0.61	0.09	-0.59	-0.49	1	1	0	600	600	0
9/19/2024 11:22	57403	SPAN_T1	12	15	3	0.3	0.37	0.07	0	0	0	0	0	0	0	0
9/19/2024 11:23	57403	SPAN_T1	12	15	3	0.3	0.37	0.07	0	0	0	0	0	0	0	0
9/19/2024 11:23	57401	SPAN_T1	16	19	3	0.52	0.61	0.09	-0.59	-0.49	1	1	0	600	600	0
9/19/2024 11:24	57403	SPAN_T1	12	15	3	0.3	0.37	0.07	0	0	0	0	0	0	0	0
9/19/2024 11:24	57401	SPAN_T1	16	19	3	0.52	0.61	0.09	-0.59	-0.49	1	1	0	600	600	0
9/19/2024 11:25	57401	SPAN_T1	16	19	3	0.52	0.61	0.09	-0.59	-0.49	1	1	0	600	600	0
9/19/2024 11:25	57403	SPAN_T1	12	15	3	0.3	0.37	0.07	0	0	0	0	0	0	0	0
9/19/2024 11:28	63401	HONY_T1	0	0	0	0	0	0	0.37	0.31	1	1	0	600	600	0
9/19/2024 11:28	63804	HEMP_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
9/19/2024 11:28	63802	HEMP_T1	0	0	0	0	0	0	0.44	0.49	0	0	0	0	0	0
9/19/2024 11:28	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/19/2024 11:29	64603	LEOL_T1	0	0	0	0	0	0	0.39	0.39	1	1	0	600	600	0
9/19/2024 11:29	63802	HEMP_T1	0	0	0	0	0	0	0.87	0.97	0	0	0	0	0	0
9/19/2024 11:29	50107	HARR_T3	1	1	0	6.3	6.9	0.6	0	0	0	0	0	0	0	0
9/19/2024 11:29	50105	HARR_T3	6	6	0	6.4	6.35	-0.05	0	0	0	0	0	0	0	0
9/19/2024 11:29	64702	LITI_T2	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
9/19/2024 11:29	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/19/2024 11:29	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/19/2024 11:29	12001	HATF_T1	0	0	0	0	0	0	2.69	2.63	2	2	0	1200	1200	0
9/19/2024 11:29	12002	HATF_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
9/19/2024 11:29	23403	HONE_T1	0	0	0	0	0	0	-0.6	-0.56	0	0	0	0	0	0
9/19/2024 11:29	63804	HEMP_T1	1	1	0	6.6	6.6	0	0	0.14	0	0	0	0	0	0
9/19/2024 11:30	12003	HATF_T1	0	0	0	0	0	0	-0.63	-0.68	2	2	0	2400	2400	0
9/19/2024 11:30	63802	HEMP_T1	0	0	0	0	0	0	0.44	0.49	0	0	0	0	0	0
9/19/2024 11:30	58706	ROSE_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/19/2024 11:30	63804	HEMP_T1	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
9/19/2024 11:30	12002	HATF_T1	1	1	0	1.7	1.6	-0.1	0.82	0.9	1	1	0	1200	1200	0
9/19/2024 11:30	64603	LEOL_T1	0	0	0	0	0	0	0.39	0.39	1	1	0	600	600	0
9/19/2024 11:30	58702	ROSE_T2	0	0	0	0	0	0	0.18	0.29	0	0	0	0	0	0
9/19/2024 11:30	63801	HEMP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/19/2024 11:30	50107	HARR_T3	1	1	0	6.9	7.6	0.7	0	0	0	0	0	0	0	0
9/19/2024 11:30	57501	LAWN_T3	0	0	0	0	0	0	-0.34	-0.28	0	0	0	0	0	0
9/19/2024 11:30	50105	HARR_T3	6	6	0	6.35	6.47	0.12	0	0	0	0	0	0	0	0
9/19/2024 11:30	58705	ROSE_T2	5	5	0	2.18	1.88	-0.3	0	0	0	0	0	0	0	0
9/19/2024 11:31	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/19/2024 11:31	64702	LITI_T2	0	0	0	0	0	0	0.1	0.15	0	0	0	0	0	0
9/19/2024 11:31	40901	JESH_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
9/19/2024 11:31	50107	HARR_T3	1	1	0	6.9	7.6	0.7	0	0	0	0	0	0	0	0
9/19/2024 11:31	40902	JESH_T1	0	0	0	0	0	0	-0.05	0.06	0	0	0	0	0	0
9/19/2024 11:31	50105	HARR_T3	6	6	0	6.35	6.47	0.12	0	0	0	0	0	0	0	0
9/19/2024 11:31	63802	HEMP_T1	0	0	0	0	0	0	0.44	0.49	0	0	0	0	0	0
9/19/2024 11:31	63801	HEMP_T1	1	1	0	0.2	0.2	0	1.07	-0.38	2	2	0	1800	1800	0
9/19/2024 11:31	63804	HEMP_T1	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
9/19/2024 11:31	57505	LAWN_T3	0	0	0	0	0	0	0.82	0.84	0	0	0	0	0	0
9/19/2024 11:32	64702	LITI_T2	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
9/19/2024 11:33	13002	NBET_T2	0	0	0	0	0	0	-1.38	-1.28	2	2	0	2400	2400	0
9/19/2024 11:33	57501	LAWN_T3	0	0	0	0	0	0	-0.34	-0.28	0	0	0	0	0	0
9/19/2024 11:34	57505	LAWN_T3	0	0	0	0	0	0	0.82	0.84	0	0	0	0	0	0
9/19/2024 11:34	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 11:34	40601	PIGR_T1	3	1	-2	0.2	0.2	0	0	0	0	0	0	0	0	0
9/19/2024 11:34	13002	NBET_T2	0	0	0	0	0	0	-1.38	-1.28	2	2	0	2400	2400	0
9/19/2024 11:34	40602	PIGR_T1	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
9/19/2024 11:34	57501	LAWN_T3	0	0	0	0	0	0	-1.02	-0.83	0	0	0	0	0	0
9/19/2024 11:34	16402	MOPO_T1	0	0	0	0	0	0	1.59	1.67	0	0	0	0	0	0
9/19/2024 11:34	14603	SWHI_T1	1	1	0	0.2	0.1	-0.1	-1.4	-1.35	2	2	0	1200	1200	0
9/19/2024 11:35	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 11:35	66504	SMAN_T2	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
9/19/2024 11:35	66505	SMAN_T2	0	0	0	0	0	0	0.88	0.87	2	2	0	1500	1500	0
9/19/2024 11:35	66702	STRA_T1	0	0	0	0	0	0	0	-0.05	2	2	0	1500	1500	0
9/19/2024 11:36	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 11:36	66702	STRA_T1	0	0	0	0	0	0	-0.05	-0.05	2	2	0	1500	1500	0
9/19/2024 11:36	66505	SMAN_T2	0	0	0	0	0	0	0.87	0.79	2	2	0	1500	1500	0
9/19/2024 11:37	41902	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 11:37	47403	PENS_T1	1	3	2	2	0.4	-1.6	0	0	0	0	0	0	0	0
9/19/2024 11:37	47402	PENS_T1	2	2	0	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
9/19/2024 11:37	47401	PENS_T1	6	3	-3	0.87	1.53	0.66	-0.25	-0.26	0	0	0	0	0	0
9/19/2024 11:37	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 11:38	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 11:38	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 11:38	66702	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 11:39	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 11:39	60101	COCA_T1	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
9/19/2024 11:39	66702	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 11:39	66505	SMAN_T2	0	0	0	0	0	0	0.87	0.79	2	3	1	1500	1700	200
9/19/2024 11:39	66703	STRA_T1	0	0	0	0	0	0	0.39	0.48	0	0	0	0	0	0
9/19/2024 11:40	24901	WHHA_T1	0	0	0	0	0	0	0.98	0.97	0	0	0	0	0	0
9/19/2024 11:40	60101	COCA_T1	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
9/19/2024 11:40	24902	WHHA_T1	2	1	-1	9.65	0.4	-9.25	0	0	0	0	0	0	0	0
9/19/2024 11:40	66703	STRA_T1	0	0	0	0	0	0	0.39	0.48	0	0	0	0	0	0
9/19/2024 11:41	44801	EDAN_T2	32	42	10	0.3	0.35	0.05	-1.42	-1.42	0	0	0	0	0	0
9/19/2024 11:41	51101	CARL_T1	1	1	0	7.2	7.4	0.2	0	0	0	0	0	0	0	0
9/19/2024 11:41	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 11:41	66702	STRA_T1	0	0	0	0	0	0	-0.05	-0.05	2	2	0	1500	1500	0
9/19/2024 11:41	51102	CARL_T1	1	1	0	2.2	2.1	-0.1	0	0	0	0	0	0	0	0
9/19/2024 11:41	60101	COCA_T1	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
9/19/2024 11:41	44902	SCOT_T2	1	1	0	0.1	0.1	0	-1.9	-1.98	0	0	0	0	0	0
9/19/2024 11:41	44802	EDAN_T2	0	0	0	0	0	0	-0.41	-0.36	0	0	0	0	0	0
9/19/2024 11:42	44801	EDAN_T2	32	42	10	0.3	0.35	0.05	-1.42	-1.42	0	0	0	0	0	0
9/19/2024 11:42	14603	SWHI_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/19/2024 11:42	14604	SWHI_T1	0	0	0	0	0	0	0.29	0.16	2	2	0	1500	1500	0
9/19/2024 11:43	44802	EDAN_T2	0	0	0	0	0	0	-0.41	-0.36	0	0	0	0	0	0
9/19/2024 11:43	60101	COCA_T1	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
9/19/2024 11:43	63501	HEID_TBK1-2	47	48	1	1.3	1.1	-0.2	0.4	0.41	1	1	0	900	900	0
9/19/2024 11:43	44801	EDAN_T2	32	42	10	0.3	0.35	0.05	0	0	0	0	0	0	0	0
9/19/2024 11:44	44802	EDAN_T2	0	0	0	0	0	0	-1.22	-1.09	0	0	0	0	0	0
9/19/2024 11:44	44801	EDAN_T2	32	42	10	0.3	0.35	0.05	-1.42	-1.42	0	0	0	0	0	0
9/19/2024 11:44	14603	SWHI_T1	1	1	0	0.2	0.1	-0.1	-1.35	-1.42	2	2	0	1200	1200	0
9/19/2024 11:46	63501	HEID_TBK1-2	47	48	1	1.13	1.21	0.08	0.4	0.41	1	1	0	900	900	0
9/19/2024 11:56	20403	ASHF_T2	3	6	3	0.47	0.35	-0.12	0	0	0	0	0	0	0	0
9/19/2024 11:56	20401	ASHF_T2	2	4	2	0.9	0.7	-0.2	0.15	0.11	0	0	0	0	0	0
9/19/2024 11:59	52004	LING_T2	2	2	0	5	5	0	0.5	0.51	0	0	0	0	0	0
9/19/2024 12:00	63602	LETO_T1	0	0	0	0	0	0	0.23	0.09	0	0	0	0	0	0
9/19/2024 12:00	63601	LETO_T1	1	1	0	0.2	0.3	0.1	0.51	0.58	2	2	0	2100	2100	0
9/19/2024 12:06	23403	HONE_T1	0	0	0	0	0	0	-0.45	-0.5	0	0	0	0	0	0
9/19/2024 12:07	57403	SPAN_T1	5	4	-1	0.5	0.55	0.05	0.23	0.21	0	0	0	0	0	0
9/19/2024 12:07	57401	SPAN_T1	5	9	4	0.72	0.61	-0.11	0	0	0	0	0	0	0	0
9/19/2024 12:09	53601	DALM_T2	1	1	0	1.1	0.9	-0.2	-0.74	-0.67	1	1	0	900	900	0
9/19/2024 12:11	60201	ATGL_T2	0	0	0	0	0	0	0.1	0.1	1	1	0	300	300	0
9/19/2024 12:11	57403	SPAN_T1	5	4	-1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
9/19/2024 12:11	57401	SPAN_T1	5	9	4	0.72	0.61	-0.11	-0.54	-0.45	1	1	0	600	600	0
9/19/2024 12:16	42903	MIDD_T2	2	3	1	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
9/19/2024 12:17	48902	FOSP_T2	1	0	-1	0.1	0	-0.1	-0.3	-0.25	1	1	0	1200	1200	0
9/19/2024 12:17	48901	FOSP_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
9/19/2024 12:18	48901	FOSP_T2	1	1	0	0.9	0.7	-0.2	0	0	1	1	0	600	600	0
9/19/2024 12:18	48902	FOSP_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/19/2024 12:20	41902	REED_T1	1	0	-1	0.3	0	-0.3	1.12	1.16	0	0	0	0	0	0
9/19/2024 12:25	40201	BEGA_T2	2	2	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
9/19/2024 12:33	64305	LINC_T1	0	0	0	0	0	0	0.29	0.34	0	0	0	0	0	0
9/19/2024 12:35	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-1.74	-1.7	2	2	0	1800	1800	0
9/19/2024 12:42	44801	EDAN_T2	18	8	-10	0.41	0.67	0.26	-1.37	-1.36	0	0	0	0	0	0
9/19/2024 12:43	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 12:43	40602	PIGR_T1	1	0	-1	1.5	1.6	0.1	0	0	0	0	0	0	0	0
9/19/2024 12:45	41902	REED_T1	0	1	1	0	0.1	0.1	1.25	1.16	0	0	0	0	0	0
9/19/2024 12:45	44801	EDAN_T2	8	7	-1	0.85	0.7	-0.15	-1.37	-1.36	0	0	0	0	0	0
9/19/2024 12:46	42903	MIDD_T2	0	0	0	0	0	0	0.43	0.67	1	1	0	1200	1200	0
9/19/2024 12:48	24801	VALM_T1	2	0	-2	4.75	0	-4.75	0	0	0	0	0	0	0	0
9/19/2024 12:48	64101	REFR_T1	8	25	17	0.56	0.4	-0.16	-0.02	-0.02	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/19/2024 12:49	64101	REFR_T1	8	25	17	0.56	0.4	-0.16	-0.01	-0.01	0	0	0	0	0	0
9/19/2024 12:50	64902	MILL_T2	0	0	0	0	0	0	-0.81	-0.79	1	1	0	900	900	0
9/19/2024 12:57	44801	EDAN_T2	8	7	-1	0.85	0.7	-0.15	-1.36	-1.35	0	0	0	0	0	0
9/19/2024 12:58	49803	UNIV_T1	2	1	-1	2.85	5.2	2.35	-1.88	-1.81	0	0	0	0	0	0
9/19/2024 12:58	49804	UNIV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 12:59	44801	EDAN_T2	8	7	-1	0.85	0.7	-0.15	-1.36	-1.35	0	0	0	0	0	0
9/19/2024 13:03	64101	REFR_T1	11	49	38	0.41	0.46	0.05	-0.01	-0.01	0	0	0	0	0	0
9/19/2024 13:05	64101	REFR_T1	11	49	38	0.41	0.46	0.05	-0.01	-0.01	0	0	0	0	0	0
9/19/2024 13:05	44201	POIN_T1	0	0	0	0	0	0	0	0	2	2	0	2100	2100	0
9/19/2024 13:07	66505	SMAN_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
9/19/2024 13:07	66501	SMAN_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
9/19/2024 13:07	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/19/2024 13:07	66502	SMAN_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/19/2024 13:09	15702	TANN_T2	0	0	0	0	0	0	-0.18	-0.14	0	0	0	0	0	0
9/19/2024 13:09	15703	TANN_T2	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
9/19/2024 13:19	65603	QVIL_T2	0	0	0	0	0	0	-0.11	-0.04	0	0	0	0	0	0
9/19/2024 13:19	65604	QVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/19/2024 13:21	60101	COCA_T1	0	0	0	0	0	0	0.74	0.69	0	0	0	0	0	0
9/19/2024 13:24	66502	SMAN_T2	1	1	0	0.3	0.1	-0.2	0.57	0.54	0	0	0	0	0	0
9/19/2024 13:24	66505	SMAN_T2	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
9/19/2024 13:24	66501	SMAN_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
9/19/2024 13:25	67401	WAKE_T2	0	0	0	0	0	0	-0.66	-0.61	0	0	0	0	0	0
9/19/2024 13:28	53501	EVIL_T2	1	2	1	0.4	0.55	0.15	-0.73	-0.72	3	3	0	2100	2100	0
9/19/2024 13:29	53501	EVIL_T2	1	2	1	0.4	0.55	0.15	-1.46	-1.44	6	6	0	4200	4200	0
9/19/2024 13:29	47901	HRDG_T1	0	0	0	0	0	0	0.94	0.91	1	1	0	1200	1200	0
9/19/2024 13:31	53501	EVIL_T2	2	2	0	0.55	0.55	0	-0.73	-0.72	3	3	0	2100	2100	0
9/19/2024 13:32	47901	HRDG_T1	0	0	0	0	0	0	0.94	0.91	1	1	0	1200	1200	0
9/19/2024 13:34	63401	HONY_T1	0	0	0	0	0	0	0.53	0.59	1	1	0	600	600	0
9/19/2024 13:35	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 13:35	55002	NEWP_T1	6	6	0	0.92	0.95	0.03	-0.07	-0.06	0	0	0	0	0	0
9/19/2024 13:36	45802	HEGI_T2	22	166	144	0.55	0.68	0.13	0	0	0	0	0	0	0	0
9/19/2024 13:40	53903	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 13:40	53902	HALI_T2	1	1	0	4.1	3.8	-0.3	-0.67	-0.64	0	0	0	0	0	0
9/19/2024 13:40	16302	ALPA_T2	0	0	0	0	0	0	-0.06	-0.14	0	0	0	0	0	0
9/19/2024 13:41	53501	EVIL_T2	2	2	0	0.55	0.55	0	-0.72	-0.85	3	3	0	2100	2100	0
9/19/2024 13:41	40201	BEGA_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
9/19/2024 13:41	16302	ALPA_T2	0	0	0	0	0	0	-0.17	-0.41	0	0	0	0	0	0
9/19/2024 13:41	67602	WARW_T2	0	0	0	0	0	0	0.55	0.62	1	1	0	300	300	0
9/19/2024 13:42	67602	WARW_T2	0	0	0	0	0	0	0.55	0.62	1	1	0	300	300	0
9/19/2024 13:44	53501	EVIL_T2	2	2	0	0.55	0.55	0	-1.44	-1.7	6	6	0	4200	4200	0
9/19/2024 13:44	63401	HONY_T1	0	0	0	0	0	0	0.59	0.55	1	1	0	600	600	0
9/19/2024 13:45	53501	EVIL_T2	1	3	2	0.5	0.95	0.45	-0.72	-0.85	3	3	0	2100	2100	0
9/19/2024 13:50	44203	POIN_T2	2	2	0	0.1	0	-0.1	0.74	0.57	4	4	0	4200	4200	0
9/19/2024 13:50	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 13:50	44801	EDAN_T2	5	7	2	0.62	0.7	0.08	-1.36	-1.33	0	0	0	0	0	0
9/19/2024 13:55	53902	HALI_T2	1	1	0	3.7	4.3	0.6	-0.64	-0.67	0	0	0	0	0	0
9/19/2024 13:55	53903	HALI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 13:56	67602	WARW_T2	0	0	0	0	0	0	0.62	0.63	1	1	0	300	300	0
9/19/2024 13:57	67602	WARW_T2	0	0	0	0	0	0	2.47	2.51	4	4	0	1200	1200	0
9/19/2024 14:00	67602	WARW_T2	0	0	0	0	0	0	0.62	0.63	1	1	0	300	300	0
9/19/2024 14:11	10805	OHHI_T2	1	1	0	7.6	8.4	0.8	-0.98	-0.83	2	2	0	1800	1800	0
9/19/2024 14:13	67602	WARW_T2	0	0	0	0	0	0	1.26	-0.29	2	4	2	600	3000	2400
9/19/2024 14:16	44601	SALE_T2	3	2	-1	2.27	1.15	-1.12	0	0	2	2	0	900	900	0
9/19/2024 14:17	53902	HALI_T2	1	2	1	4.3	2.25	-2.05	-0.67	-0.67	0	0	0	0	0	0
9/19/2024 14:17	53903	HALI_T2	2	2	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/19/2024 14:21	11104	EGYP_T1	6	5	-1	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
9/19/2024 14:21	55101	WERT_T1	0	0	0	0	0	0	-1.62	-1.65	4	4	0	3300	3300	0
9/19/2024 14:21	11102	EGYP_T1	1	1	0	1.4	0.1	-1.3	0.14	0.16	0	0	0	0	0	0
9/19/2024 14:22	64101	REFR_T1	20	10	-10	0.41	0.54	0.13	-0.01	-0.01	0	0	0	0	0	0
9/19/2024 14:22	11104	EGYP_T1	6	5	-1	0.45	0.3	-0.15	1	1.03	0	0	0	0	0	0
9/19/2024 14:22	11102	EGYP_T1	1	1	0	1.4	0.1	-1.3	0	0	0	0	0	0	0	0
9/19/2024 14:27	65901	SMIR_T2	1	2	1	5.4	3.1	-2.3	0.27	0.13	1	1	0	600	600	0
9/19/2024 14:31	42902	MIDD_T2	1	0	-1	0.1	0	-0.1	-0.6	-0.27	1	1	0	600	600	0
9/19/2024 14:32	44203	POIN_T2	1	0	-1	0.1	0	-0.1	0.72	0.37	4	4	0	4200	4200	0
9/19/2024 14:38	44301	BEAV_T2	2	5	3	0.3	0.3	0	0.03	-0.24	1	1	0	600	600	0
9/19/2024 14:41	44301	BEAV_T2	2	5	3	0.3	0.3	0	0.03	-0.24	1	1	0	600	600	0
9/19/2024 14:48	13502	MCMI_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
9/19/2024 14:49	64101	REFR_T1	8	168	160	0.48	0.37	-0.11	-0.01	-0.01	0	0	0	0	0	0
9/19/2024 14:50	64101	REFR_T1	8	168	160	0.48	0.37	-0.11	-0.01	-0.01	0	0	0	0	0	0
9/19/2024 14:53	64101	REFR_T1	8	168	160	0.48	0.37	-0.11	-0.01	-0.01	0	0	0	0	0	0
9/19/2024 14:57	44301	BEAV_T2	5	3	-2	0.3	0.3	0	-0.24	-0.32	1	1	0	600	600	0
9/19/2024 15:04	64101	REFR_T1	6	168	162	0.37	0.44	0.07	-0.01	-0.01	0	0	0	0	0	0
9/19/2024 15:07	46101	MACI_T2	0	0	0	0	0	0	-0.04	0.13	1	1	0	1200	1200	0
9/19/2024 15:09	53102	WTWN_T1	0	0	0	0	0	0	-1.04	-1.02	0	0	0	0	0	0
9/19/2024 15:12	53102	WTWN_T1	0	0	0	0	0	0	-1.04	-1.02	0	0	0	0	0	0
9/19/2024 15:13	44301	BEAV_T2	3	1	-2	0.3	0.3	0	-0.32	-0.27	1	1	0	600	600	0
9/19/2024 15:17	46101	MACI_T2	0	0	0	0	0	0	-0.04	0.13	1	1	0	1200	1200	0
9/19/2024 15:20	64101	REFR_T1	166	27	-139	0.52	0.41	-0.11	-0.01	-0.01	0	0	0	0	0	0
9/19/2024 15:25	24902	WHHA_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
9/19/2024 15:25	24901	WHHA_T1	0	0	0	0	0	0	0.64	0.67	0	0	0	0	0	0
9/19/2024 15:36	40802	EXCH_T2	1	1	0	0.3	0.4	0.1	-0.1	-0.11	0	0	0	0	0	0
9/19/2024 15:36	40801	EXCH_T2	0	0	0	0	0	0	-0.14	-0.12	1	1	0	1200	1200	0
9/19/2024 15:37	13905	SEID_T1	0	0	0	0	0	0	-0.57	-0.5	1	1	0	1200	1200	0
9/19/2024 15:37	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 15:43	46101	MACI_T2	0	0	0	0	0	0	0.02	1.28	1	0	-1	1200	0	-1200
9/19/2024 15:43	61502	EPET_T1	0	0	0	0	0	0	-2.11	-2.04	0	0	0	0	0	0
9/19/2024 15:45	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 15:45	46506	LOHA_T1	3	3	0	3.77	3.53	-0.24	0	0	0	0	0	0	0	0
9/19/2024 15:45	46503	LOHA_T1	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
9/19/2024 15:45	63305	GREE_T1	0	0	0	0	0	0	-1.83	-1.88	1	1	0	900	900	0
9/19/2024 15:46	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 15:46	46506	LOHA_T1	3	3	0	3.77	3.53	-0.24	0	0	0	0	0	0	0	0
9/19/2024 15:46	24105	EHAZ_T1	4	4	0	6.88	6.83	-0.05	0	0	0	0	0	0	0	0
9/19/2024 15:46	46503	LOHA_T1	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
9/19/2024 15:46	24102	EHAZ_T1	1	2	1	0.2	0	-0.2	0.65	0.65	0	0	0	0	0	0
9/19/2024 15:52	54602	SUMM_T2	0	0	0	0	0	0	-1.99	-2.02	1	1	0	600	600	0
9/19/2024 16:11	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 16:13	45901	AUBU_T1	0	0	0	0	0	0	1.03	1.08	0	0	0	0	0	0
9/19/2024 16:13	45902	AUBU_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
9/19/2024 16:23	40802	EXCH_T2	1	0	-1	0.1	0	-0.1	-0.18	-0.25	0	0	0	0	0	0
9/19/2024 16:26	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/19/2024 16:31	20603	GRWO_T2	0	0	0	0	0	0	-0.4	-0.4	1	1	0	900	900	0
9/19/2024 16:31	20601	GRWO_T2	68	84	16	0.48	0.5	0.02	0	0	0	0	0	0	0	0
9/19/2024 16:32	50502	MECH_T1	1	1	0	2.7	2.6	-0.1	-0.09	-0.09	2	2	0	2100	2100	0
9/19/2024 16:32	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/19/2024 16:32	50501	MECH_T1	4	4	0	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
9/19/2024 16:33	15603	NSTR_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
9/19/2024 16:33	15601	NSTR_T2	3	3	0	0.83	0.97	0.14	0	0	0	0	0	0	0	0
9/19/2024 16:36	21501	CEAV_T2	0	0	0	0	0	0	-0.16	-0.28	1	1	0	1200	1200	0
9/19/2024 16:39	10602	BLGL_T2	1	1	0	9.7	10	0.3	0.62	0.61	0	0	0	0	0	0
9/19/2024 16:40	14204	EALL_T2	0	0	0	0	0	0	-0.73	-0.64	0	0	0	0	0	0
9/19/2024 16:51	10801	CHHI_T1	0	0	0	0	0	0	-1.48	-1.44	3	3	0	2100	2100	0
9/19/2024 16:57	44301	BEAV_T2	0	1	1	0	0	0	-0.18	-0.26	1	1	0	600	600	0
9/19/2024 17:00	63305	GREE_T1	3	3	0	0.15	0.2	0.05	-1.85	-1.84	1	1	0	900	900	0
9/19/2024 17:05	13503	MCMI_T2	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
9/19/2024 17:10	13503	MCMI_T2	0	0	0	0	0	0	0.09	0.14	0	0	0	0	0	0
9/19/2024 17:17	46206	DANV_T2	4	1	-3	0.78	2.1	1.32	0	0	0	0	0	0	0	0
9/19/2024 17:17	46203	DANV_T2	1	1	0	6.1	6.1	0	-0.25	-0.25	0	0	0	0	0	0
9/19/2024 17:19	46206	DANV_T2	4	1	-3	0.78	2.1	1.32	0	0	0	0	0	0	0	0
9/19/2024 17:19	46203	DANV_T2	1	1	0	6.1	6.1	0	-0.25	-0.25	0	0	0	0	0	0
9/19/2024 17:19	16902	MECK_T1	0	0	0	0	0	0	0.11	0.06	0	0	0	0	0	0
9/19/2024 17:26	45901	AUBU_T1	0	0	0	0	0	0	0.73	0.79	0	0	0	0	0	0
9/19/2024 17:26	45902	AUBU_T1	2	2	0	0.65	0.3	-0.35	0	0	0	0	0	0	0	0
9/19/2024 17:27	45901	AUBU_T1	0	0	0	0	0	0	0.73	0.79	0	0	0	0	0	0
9/19/2024 17:27	45902	AUBU_T1	2	2	0	0.65	0.3	-0.35	0	0	0	0	0	0	0	0
9/19/2024 17:35	55405	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 17:36	40802	EXCH_T2	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
9/19/2024 17:37	61702	ELIZ_T2	0	0	0	0	0	0	-1.27	-1.31	2	2	0	1500	1500	0
9/19/2024 17:46	46206	DANV_T2	1	6	5	2.1	0.8	-1.3	4.32	4.38	4	4	0	4200	4200	0
9/19/2024 17:46	46203	DANV_T2	1	1	0	6.1	6.6	0.5	0	0	0	0	0	0	0	0
9/19/2024 17:50	46206	DANV_T2	1	6	5	2.1	0.8	-1.3	2.16	2.19	2	2	0	2100	2100	0
9/19/2024 17:50	46203	DANV_T2	1	1	0	6.1	6.6	0.5	0	0	0	0	0	0	0	0
9/19/2024 17:52	44902	SCOT_T2	0	0	0	0	0	0	-0.64	-0.6	0	0	0	0	0	0
9/19/2024 17:53	44905	SCOT_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 18:08	24202	PROV_T4	1	1	0	2.1	0	-2.1	-0.14	-0.11	1	1	0	1200	1200	0
9/19/2024 18:10	14802	TREI_T2	0	0	0	0	0	0	0.92	0.88	0	0	0	0	0	0
9/19/2024 18:16	63305	GREE_T1	16	15	-1	0.28	0.37	0.09	0	0	0	0	0	0	0	0
9/19/2024 18:16	63306	GREE_T1	0	0	0	0	0	0	-1.65	-1.67	1	1	0	900	900	0
9/19/2024 18:22	57401	SPAN_T1	2	2	0	0.15	0.7	0.55	-0.77	-0.85	1	1	0	600	600	0
9/19/2024 18:23	61701	ELIZ_T1	1	1	0	2.4	3	0.6	-0.38	-0.4	0	0	0	0	0	0
9/19/2024 18:29	28102	TWLA_T2	7	5	-2	0.51	0.44	-0.07	0.25	0.24	0	0	0	0	0	0
9/19/2024 18:33	44203	POIN_T2	0	0	0	0	0	0	0.22	0.21	2	2	0	2100	2100	0
9/19/2024 18:43	63304	GREE_T1	0	0	0	0	0	0	-1.1	-1.17	0	0	0	0	0	0
9/19/2024 18:43	63305	GREE_T1	8	15	7	0.41	0.37	-0.04	0	0	0	0	0	0	0	0
9/19/2024 20:20	65802	RTWN_T2	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
9/19/2024 20:36	67001	STHI_T2	8	1	-7	0.13	0.2	0.07	0.34	0.3	0	0	0	0	0	0
9/19/2024 20:37	67001	STHI_T2	8	1	-7	0.13	0.2	0.07	0.34	0.3	0	0	0	0	0	0
9/19/2024 20:39	67002	STHI_T2	0	0	0	0	0	0	0.96	0.94	0	0	0	0	0	0
9/19/2024 20:39	67001	STHI_T2	8	1	-7	0.13	0.2	0.07	0	0	0	0	0	0	0	0
9/19/2024 20:40	67002	STHI_T2	0	0	0	0	0	0	0.96	0.94	0	0	0	0	0	0
9/19/2024 20:40	67001	STHI_T2	8	1	-7	0.13	0.2	0.07	0	0	0	0	0	0	0	0
9/19/2024 20:41	67002	STHI_T2	0	0	0	0	0	0	0.96	0.94	0	0	0	0	0	0
9/19/2024 20:41	67001	STHI_T2	8	1	-7	0.13	0.2	0.07	0	0	0	0	0	0	0	0
9/19/2024 20:42	67002	STHI_T2	0	0	0	0	0	0	0.96	0.94	0	0	0	0	0	0
9/19/2024 20:42	67001	STHI_T2	8	1	-7	0.13	0.2	0.07	0	0	0	0	0	0	0	0
9/19/2024 20:51	24101	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 20:51	24102	EHAZ_T1	0	0	0	0	0	0	0.22	0.1	0	0	0	0	0	0
9/19/2024 20:51	24105	EHAZ_T1	4	4	0	6.13	5.8	-0.33	0	0	0	0	0	0	0	0
9/19/2024 20:52	57106	SPHI_T2	3	3	0	2.03	2	-0.03	0	0	0	0	0	0	0	0
9/19/2024 20:52	57104	SPHI_T2	0	1	1	0	5.2	5.2	-1.37	-1.36	1	1	0	900	900	0
9/19/2024 20:52	57101	SPHI_T2	6	6	0	0.33	0.53	0.2	0	0	0	0	0	0	0	0
9/19/2024 20:52	57103	SPHI_T2	9	8	-1	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/19/2024 20:56	10602	BLGL_T2	0	0	0	0	0	0	0.25	0.32	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/19/2024 20:58	15702	TANN_T2	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
9/19/2024 20:58	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
9/19/2024 21:00	11604	CEAL_T1	0	4	4	0	0.43	0.43	0	0	0	0	0	0	0	0
9/19/2024 21:00	16402	MOPO_T1	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
9/19/2024 21:00	15601	NSTR_T2	3	3	0	0.63	1	0.37	0	0	0	0	0	0	0	0
9/19/2024 21:00	15603	NSTR_T2	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
9/19/2024 21:00	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/19/2024 21:01	16902	MECK_T1	0	0	0	0	0	0	0.05	0.09	0	0	0	0	0	0
9/19/2024 21:02	13905	SEID_T1	0	0	0	0	0	0	-0.77	-0.8	1	1	0	1200	1200	0
9/19/2024 21:02	10805	CHHI_T2	1	1	0	8	7.5	-0.5	-0.74	-0.64	1	1	0	600	600	0
9/19/2024 21:03	15702	TANN_T2	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
9/19/2024 21:03	44201	POIN_T1	0	0	0	0	0	0	0	0	2	2	0	2100	2100	0
9/19/2024 21:03	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
9/19/2024 21:04	43801	SWIL_T1	55	23	-32	0.41	0.46	0.05	0	0	0	0	0	0	0	0
9/19/2024 21:04	43802	SWIL_T1	0	0	0	0	0	0	0.06	0.03	1	1	0	600	600	0
9/19/2024 21:05	16302	ALPA_T2	0	0	0	0	0	0	0.84	0.89	0	0	0	0	0	0
9/19/2024 21:05	44203	POIN_T2	0	0	0	0	0	0	-0.14	-0.16	2	2	0	2100	2100	0
9/19/2024 21:05	61701	ELIZ_T1	1	1	0	4.9	5.1	0.2	-0.68	-0.69	0	0	0	0	0	0
9/19/2024 21:05	23403	HONE_T1	0	7	7	0	0.13	0.13	-0.66	-0.65	0	0	0	0	0	0
9/19/2024 21:05	25402	LAHA_T2	0	0	0	0	0	0	-0.82	-0.85	0	0	0	0	0	0
9/19/2024 21:05	16402	MOPO_T1	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
9/19/2024 21:05	44202	POIN_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/19/2024 21:05	24902	WHHA_T1	0	0	0	0	0	0	1.68	1.62	0	0	0	0	0	0
9/19/2024 21:05	12001	HATF_T1	1	1	0	0.2	0.5	0.3	1.16	1.37	1	1	0	600	600	0
9/19/2024 21:06	44802	EDAN_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
9/19/2024 21:06	44801	EDAN_T2	69	143	74	0.35	0.38	0.03	0	0	0	0	0	0	0	0
9/19/2024 21:06	12001	HATF_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/19/2024 21:06	12003	HATF_T1	0	0	0	0	0	0	0.16	0.16	1	1	0	1200	1200	0
9/19/2024 21:06	16302	ALPA_T2	0	0	0	0	0	0	0.84	0.89	0	0	0	0	0	0
9/19/2024 21:06	11104	EGYP_T1	0	0	0	0	0	0	0.4	0.75	0	0	0	0	0	0
9/19/2024 21:06	13503	MCMI_T2	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
9/19/2024 21:07	16102	BING_T2	4	6	2	0.15	0.17	0.02	0	0	0	0	0	0	0	0
9/19/2024 21:07	11104	EGYP_T1	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
9/19/2024 21:07	16302	ALPA_T2	0	0	0	0	0	0	0.89	0.84	0	0	0	0	0	0
9/19/2024 21:07	16103	BING_T2	0	0	0	0	0	0	-1.18	-1.17	1	1	0	900	900	0
9/19/2024 21:07	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 21:08	50105	HARR_T3	6	6	0	5.43	5.45	0.02	0	0	0	0	0	0	0	0
9/19/2024 21:08	50202	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/19/2024 21:08	41902	REED_T1	0	0	0	0	0	0	1.11	1.09	0	0	0	0	0	0
9/19/2024 21:08	50103	HARR_T3	2	2	0	0.4	0.75	0.35	0	0	0	0	0	0	0	0
9/19/2024 21:08	14604	SWHI_T1	0	0	0	0	0	0	0.48	0.29	1	1	0	900	900	0
9/19/2024 21:08	50201	HARR_T3	1	1	0	1.1	0.4	-0.7	0	0	0	0	0	0	0	0
9/19/2024 21:08	14801	TREI_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
9/19/2024 21:08	50107	HARR_T3	1	1	0	6.5	6	-0.5	0	0	0	0	0	0	0	0
9/19/2024 21:08	41901	REED_T1	9	9	0	0.63	0.78	0.15	0	0	0	0	0	0	0	0
9/19/2024 21:09	57401	SPAN_T1	12	39	27	0.27	0.18	-0.09	-0.44	-0.47	1	1	0	600	600	0
9/19/2024 21:09	50103	HARR_T3	2	2	0	0.4	0.75	0.35	0	0	0	0	0	0	0	0
9/19/2024 21:09	50107	HARR_T3	1	1	0	6.5	6	-0.5	0	0	0	0	0	0	0	0
9/19/2024 21:09	57403	SPAN_T1	8	27	19	0.16	0.24	0.08	0	0	0	0	0	0	0	0
9/19/2024 21:09	50201	HARR_T3	1	1	0	1.1	0.4	-0.7	0	0	0	0	0	0	0	0
9/19/2024 21:09	52004	LING_T2	2	2	0	5.6	5.95	0.35	0.44	0.43	0	0	0	0	0	0
9/19/2024 21:09	13002	NBET_T2	0	0	0	0	0	0	-1.49	-1.5	2	2	0	2400	2400	0
9/19/2024 21:09	14204	EALL_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
9/19/2024 21:09	50105	HARR_T3	6	6	0	5.43	5.45	0.02	0	0	0	0	0	0	0	0
9/19/2024 21:09	50202	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/19/2024 21:09	47401	PENS_T1	0	0	0	0	0	0	-0.83	-0.91	0	0	0	0	0	0
9/19/2024 21:10	20403	ASHF_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
9/19/2024 21:10	50107	HARR_T3	1	1	0	6.5	6	-0.5	0	0	0	0	0	0	0	0
9/19/2024 21:10	50202	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/19/2024 21:10	10801	CHHI_T1	0	0	0	0	0	0	-1.13	-1.16	2	2	0	1500	1500	0
9/19/2024 21:10	57505	LAWN_T3	0	0	0	0	0	0	0.9	0.92	0	0	0	0	0	0
9/19/2024 21:10	50201	HARR_T3	1	1	0	1.1	0.4	-0.7	0	0	0	0	0	0	0	0
9/19/2024 21:10	20402	ASHF_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/19/2024 21:10	45902	AUBU_T1	0	6	6	0	0.17	0.17	-0.8	-0.81	1	1	0	600	600	0
9/19/2024 21:10	20401	ASHF_T2	6	5	-1	0.37	0.32	-0.05	0	0	0	0	0	0	0	0
9/19/2024 21:10	58702	ROSE_T2	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0
9/19/2024 21:10	50103	HARR_T3	2	2	0	0.4	0.75	0.35	0	0	0	0	0	0	0	0
9/19/2024 21:10	11102	EGYP_T1	0	0	0	0	0	0	-0.13	0	0	0	0	0	0	0
9/19/2024 21:10	50105	HARR_T3	6	6	0	5.43	5.45	0.02	0	0	0	0	0	0	0	0
9/19/2024 21:10	58705	ROSE_T2	5	5	0	3.02	3.16	0.14	0	0	0	0	0	0	0	0
9/19/2024 21:10	13002	NBET_T2	0	0	0	0	0	0	-1.49	-1.5	2	2	0	2400	2400	0
9/19/2024 21:11	67502	WEWI_T2	0	3	3	0	0.1	0.1	-1.12	-1.14	1	1	0	900	900	0
9/19/2024 21:11	14603	SWHI_T1	0	0	0	0	0	0	-2.72	-2.81	4	4	0	2400	2400	0
9/19/2024 21:11	43802	WATS_T2	4	4	0	0.8	0.38	-0.42	0	0	0	0	0	0	0	0
9/19/2024 21:11	57401	SPAN_T1	12	39	27	0.27	0.18	-0.09	-0.44	-0.47	1	1	0	600	600	0
9/19/2024 21:11	24206	PROV_T4	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
9/19/2024 21:11	55101	WERT_T1	0	0	0	0	0	0	-1.14	-1.18	2	2	0	1500	1500	0
9/19/2024 21:11	44203	POIN_T2	0	0	0	0	0	0	-0.16	-0.05	2	2	0	2100	2100	0
9/19/2024 21:11	43304	WATS_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 21:11	46203	DANV_T2	1	1	0	7.9	8.2	0.3	0	0	0	0	0	0	0	0
9/19/2024 21:11	57403	SPAN_T1	8	27	19	0.16	0.24	0.08	0.22	0.2	0	0	0	0	0	0
9/19/2024 21:11	44202	POIN_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/19/2024 21:11	47401	PENS_T1	0	0	0	0	0	0	-0.42	-0.45	0	0	0	0	0	0
9/19/2024 21:11	67503	WEWI_T2	1	1	0	6.7	7.6	0.9	0	0	0	0	0	0	0	0
9/19/2024 21:11	24202	PROV_T4	1	11	10	1.2	0.1	-1.1	-0.31	-0.3	1	1	0	1200	1200	0
9/19/2024 21:11	43301	WATS_T2	20	0	-20	0.26	0	-0.26	0.49	0.46	0	0	0	0	0	0
9/19/2024 21:11	53903	HALI_T2	2	2	0	1.4	0.95	-0.45	0	0	0	0	0	0	0	0
9/19/2024 21:11	46206	DANV_T2	0	0	0	0	0	0	1.82	1.83	2	2	0	2100	2100	0
9/19/2024 21:11	57505	LAWN_T3	0	0	0	0	0	0	0.9	0.92	0	0	0	0	0	0
9/19/2024 21:11	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.36	-0.55	4	4	0	3600	3600	0
9/19/2024 21:11	64904	MILL_T1	0	1	1	0	0	0	-0.1	-0.12	0	0	0	0	0	0
9/19/2024 21:11	43801	SWIL_T1	55	23	-32	0.41	0.46	0.05	0	0	0	0	0	0	0	0
9/19/2024 21:11	10805	CHHI_T2	1	1	0	8	7.5	-0.5	-0.64	-0.95	1	1	0	600	600	0
9/19/2024 21:11	53501	EVIL_T2	1	1	0	0.7	1.3	0.6	-1.29	-1.34	2	2	0	1200	1200	0
9/19/2024 21:11	16302	ALPA_T2	0	0	0	0	0	0	0.89	0.84	0	0	0	0	0	0
9/19/2024 21:11	43802	SWIL_T1	0	0	0	0	0	0	0.03	0.03	1	1	0	600	600	0
9/19/2024 21:11	20601	GRWO_T2	7	7	0	0.54	0.77	0.23	1.14	1.19	0	0	0	0	0	0
9/19/2024 21:11	53901	HALI_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/19/2024 21:11	44801	EDAN_T2	69	143	74	0.35	0.38	0.03	-1.49	-1.54	0	0	0	0	0	0
9/19/2024 21:11	53902	HALI_T2	1	1	0	5.4	4.8	-0.6	-0.14	-0.14	0	0	0	0	0	0
9/19/2024 21:12	12002	HATF_T1	0	0	0	0	0	0	0.44	0.26	1	1	0	1200	1200	0
9/19/2024 21:12	57203	ROSS_T1	0	0	0	0	0	0	-0.01	0.63	0	0	0	0	0	0
9/19/2024 21:12	64702	LITI_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
9/19/2024 21:12	45901	AUBU_T1	0	0	0	0	0	0	3.76	3.54	0	0	0	0	0	0
9/19/2024 21:12	57201	ROSS_T1	13	6	-7	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
9/19/2024 21:12	46206	DANV_T2	0	0	0	0	0	0	1.82	1.83	2	2	0	2100	2100	0
9/19/2024 21:12	57403	SPAN_T1	8	27	19	0.16	0.24	0.08	0	0	0	0	0	0	0	0
9/19/2024 21:12	45502	DERR_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
9/19/2024 21:12	12001	HATF_T1	1	1	0	0.2	0.5	0.3	1.37	1.11	1	1	0	600	600	0
9/19/2024 21:12	46203	DANV_T2	1	1	0	7.9	8.2	0.3	0	0	0	0	0	0	0	0
9/19/2024 21:12	43304	WATS_T2	0	2	2	0	0	0	-0.17	-0.23	0	0	0	0	0	0
9/19/2024 21:12	66703	STRA_T1	5	14	9	0.18	0.32	0.14	-0.1	-0.08	0	0	0	0	0	0
9/19/2024 21:12	43802	SWIL_T1	0	0	0	0	0	0	0.03	0.03	1	1	0	600	600	0
9/19/2024 21:12	45501	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 21:12	43301	WATS_T2	20	0	-20	0.26	0	-0.26	0	0	0	0	0	0	0	0
9/19/2024 21:12	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 21:12	43302	WATS_T2	4	4	0	0.8	0.38	-0.42	0	0	0	0	0	0	0	0
9/19/2024 21:12	24901	WHHA_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
9/19/2024 21:12	43801	SWIL_T1	55	23	-32	0.41	0.46	0.05	0	0	0	0	0	0	0	0
9/19/2024 21:12	11104	EGYP_T1	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
9/19/2024 21:12	57401	SPAN_T1	12	39	27	0.27	0.18	-0.09	-0.44	-0.47	1	1	0	600	600	0
9/19/2024 21:12	45902	AUBU_T1	0	6	6	0	0.17	0.17	-0.8	-0.81	1	1	0	600	600	0
9/19/2024 21:13	63401	HONY_T1	0	0	0	0	0	0	0.6	0.55	0	0	0	0	0	0
9/19/2024 21:13	67502	WEWI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 21:13	53601	DALM_T2	1	1	0	1	0.9	-0.1	0.12	0.11	0	0	0	0	0	0
9/19/2024 21:13	60101	COCA_T1	0	0	0	0	0	0	0.52	0.55	0	0	0	0	0	0
9/19/2024 21:13	63404	HONY_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 21:13	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 21:13	64702	LITI_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
9/19/2024 21:13	44802	EDAN_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
9/19/2024 21:13	57203	ROSS_T1	0	0	0	0	0	0	-0.01	0.63	0	0	0	0	0	0
9/19/2024 21:13	67503	WEWI_T2	1	1	0	6.7	7.6	0.9	0.12	0.1	0	0	0	0	0	0
9/19/2024 21:13	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 21:13	40701	FFLD_T1	44	72	28	0.58	0.54	-0.04	0	0	0	0	0	0	0	0
9/19/2024 21:13	40703	FFLD_T1	4	4	0	0.58	0.73	0.15	0	0	0	0	0	0	0	0
9/19/2024 21:13	51102	CARL_T1	0	54	54	0	0.17	0.17	0	0	0	0	0	0	0	0
9/19/2024 21:13	40702	FFLD_T1	80	108	28	0.29	0.4	0.11	0	0	0	0	0	0	0	0
9/19/2024 21:13	44801	EDAN_T2	69	143	74	0.35	0.38	0.03	0	0	0	0	0	0	0	0
9/19/2024 21:13	57201	ROSS_T1	13	6	-7	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
9/19/2024 21:13	51101	CARL_T1	1	1	0	5.6	5.1	-0.5	0	0	0	0	0	0	0	0
9/19/2024 21:14	43304	WATS_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 21:14	63306	GREE_T1	0	0	0	0	0	0	-1.95	-1.94	1	1	0	900	900	0
9/19/2024 21:14	43301	WATS_T2	20	0	-20	0.26	0	-0.26	0	0	0	0	0	0	0	0
9/19/2024 21:14	57401	SPAN_T1	12	39	27	0.27	0.18	-0.09	-0.44	-0.47	1	1	0	600	600	0
9/19/2024 21:14	61502	EPET_T1	0	0	0	0	0	0	-0.7	-0.74	0	0	0	0	0	0
9/19/2024 21:14	57205	ROSS_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
9/19/2024 21:14	43302	WATS_T2	4	4	0	0.8	0.38	-0.42	0	0	0	0	0	0	0	0
9/19/2024 21:14	57403	SPAN_T1	8	27	19	0.16	0.24	0.08	0	0	0	0	0	0	0	0
9/19/2024 21:14	63305	GREE_T1	13	15	2	0.3	0.47	0.17	0	0	0	0	0	0	0	0
9/19/2024 21:14	57201	ROSS_T1	13	6	-7	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
9/19/2024 21:14	67602	WARW_T2	0	0	0	0	0	0	0.39	0.31	1	1	0	300	300	0
9/19/2024 21:14	60101	COCA_T1	0	0	0	0	0	0	0.52	0.55	0	0	0	0	0	0
9/19/2024 21:15	63804	HEMP_T1	1	1	0	5.6	5.6	0	-0.55	-0.55	0	0	0	0	0	0
9/19/2024 21:15	50502	MECH_T1	1	7	6	2.6	0.51	-2.09	-0.29	-0.31	1	1	0	900	900	0
9/19/2024 21:15	11102	EGYP_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
9/19/2024 21:15	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 21:15	43802	SWIL_T1	0	0	0	0	0	0	0.03	0.03	1	1	0	600	600	0
9/19/2024 21:15	44301	BEAV_T2	0	0	0	0	0	0	-1.23	-1.13	2	2	0	1200	1200	0
9/19/2024 21:15	24901	WHHA_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
9/19/2024 21:15	43801	SWIL_T1	23	11	-12	0.46	0.7	0.24	0	0	0	0	0	0	0	0
9/19/2024 21:15	40201	BEGA_T2	3	1	-2	0.2	0.2	0	0	0	0	0	0	0	0	0
9/19/2024 21:15	64602	LEOL_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
9/19/2024 21:15	46203	DANV_T2	1	1	0	8	8.2	0.2	-0.56	-0.56	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/19/2024 21:15	44902	SCOT_T2	0	0	0	0	0	0	-0.69	-0.78	0	0	0	0	0	0
9/19/2024 21:15	67203	TEHI_T1	0	0	0	0	0	0	2.39	2.34	2	2	0	1500	1500	0
9/19/2024 21:15	48901	FOSP_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
9/19/2024 21:16	45901	AUBU_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
9/19/2024 21:16	64903	MILL_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
9/19/2024 21:16	57501	LAWN_T3	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
9/19/2024 21:16	63804	HEMP_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
9/19/2024 21:16	64603	LEOL_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
9/19/2024 21:16	20402	ASHF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/19/2024 21:16	67503	WEWI_T2	1	1	0	7.1	8	0.9	0	0	0	0	0	0	0	0
9/19/2024 21:16	46501	LOHA_T1	1	0	-1	4.1	0	-4.1	0	0	0	0	0	0	0	0
9/19/2024 21:16	66504	SMAN_T2	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
9/19/2024 21:16	65802	RTWN_T2	0	0	0	0	0	0	0.12	0.08	0	0	0	0	0	0
9/19/2024 21:16	60101	COCA_T1	0	0	0	0	0	0	0.52	0.55	0	0	0	0	0	0
9/19/2024 21:16	20403	ASHF_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
9/19/2024 21:16	63602	LETO_T1	102	16	-86	0.23	0.11	-0.12	-0.68	-0.74	1	1	0	600	600	0
9/19/2024 21:16	45902	AUBU_T1	0	30	30	0	0.18	0.18	-0.8	-0.81	1	1	0	600	600	0
9/19/2024 21:16	49804	UNIV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/19/2024 21:16	67502	WEWI_T2	0	46	46	0	0.14	0.14	-1.12	-1.14	1	1	0	900	900	0
9/19/2024 21:16	66703	STRA_T1	5	48	43	0.46	0.26	-0.2	0	0	0	0	0	0	0	0
9/19/2024 21:16	63304	GREE_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 21:16	43302	WATS_T2	3	4	1	0.23	0.4	0.17	0	0	0	0	0	0	0	0
9/19/2024 21:16	63305	GREE_T1	15	4	-11	0.47	0.1	-0.37	-2.05	-1.1	1	0	-1	900	0	-900
9/19/2024 21:16	49803	UNIV_T1	1	2	1	5.7	5.5	-0.2	-0.81	-0.89	0	0	0	0	0	0
9/19/2024 21:16	53501	EVIL_T2	1	2	1	1.2	0.7	-0.5	-1.29	-1.34	2	2	0	1200	1200	0
9/19/2024 21:16	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
9/19/2024 21:16	55101	WERT_T1	0	0	0	0	0	0	-1.14	-1.18	2	2	0	1500	1500	0
9/19/2024 21:16	58401	MORO_T1	0	0	0	0	0	0	-0.98	-0.34	1	0	-1	600	0	-600
9/19/2024 21:16	63401	HONY_T1	0	0	0	0	0	0	0.6	0.55	0	0	0	0	0	0
9/19/2024 21:16	63601	LETO_T1	0	0	0	0	0	0	0.3	1.06	2	1	-1	2100	1200	-900
9/19/2024 21:16	66702	STRA_T1	0	0	0	0	0	0	-0.3	-0.36	2	2	0	1500	1500	0
9/19/2024 21:16	46504	LOHA_T1	28	31	3	0.26	0.26	0	0	0	0	0	0	0	0	0
9/19/2024 21:16	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 21:16	44902	SCOT_T2	0	0	0	0	0	0	-0.69	-0.78	0	0	0	0	0	0
9/19/2024 21:16	42903	MIDD_T2	2	2	0	0.6	0.55	-0.05	-0.12	-0.17	0	0	0	0	0	0
9/19/2024 21:16	20401	ASHF_T2	3	5	2	0.33	0.38	0.05	0	0	0	0	0	0	0	0
9/19/2024 21:16	57403	SPAN_T1	27	12	-15	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
9/19/2024 21:16	44203	POIN_T2	0	0	0	0	0	0	-0.16	-0.05	2	2	0	2100	2100	0
9/19/2024 21:16	66505	SMAN_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/19/2024 21:16	67602	WARW_T2	0	0	0	0	0	0	0.39	0.31	1	1	0	300	300	0
9/19/2024 21:16	57401	SPAN_T1	39	4	-35	0.18	0.7	0.52	-0.44	-0.47	1	1	0	600	600	0
9/19/2024 21:16	44601	SALE_T2	0	0	0	0	0	0	0	0	1	1	0	300	300	0
9/19/2024 21:16	44202	POIN_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
9/19/2024 21:16	63404	HONY_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 21:16	60201	ATGL_T2	0	0	0	0	0	0	-0.05	-0.11	1	1	0	300	300	0
9/19/2024 21:16	46001	BERW_T1	0	0	0	0	0	0	-0.62	-0.66	0	0	0	0	0	0
9/19/2024 21:16	43304	WATS_T2	0	2	2	0	0	0	-0.17	-0.23	0	0	0	0	0	0
9/19/2024 21:16	63802	HEMP_T1	0	0	0	0	0	0	0.99	1.02	0	0	0	0	0	0
9/19/2024 21:16	46506	LOHA_T1	4	4	0	4.25	4.2	-0.05	0	0	0	0	0	0	0	0
9/19/2024 21:16	64101	REFR_T1	6	0	-6	0.38	0	-0.38	-0.01	-0.01	0	0	0	0	0	0
9/19/2024 21:17	55002	NEWP_T1	4	5	1	0.48	0.56	0.08	-0.19	-0.21	0	0	0	0	0	0
9/19/2024 21:17	44802	EDAN_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
9/19/2024 21:17	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/19/2024 21:17	40201	BEGA_T2	3	1	-2	0.2	0.2	0	0	0	0	0	0	0	0	0
9/19/2024 21:17	55405	SHER_T1	6	6	0	0.87	1.35	0.48	0	0	0	0	0	0	0	0
9/19/2024 21:17	46001	BERW_T1	0	0	0	0	0	0	-0.62	-0.66	0	0	0	0	0	0
9/19/2024 21:17	44801	EDAN_T2	121	162	41	0.36	0.47	0.11	0	0	0	0	0	0	0	0
9/19/2024 21:17	40802	EXCH_T2	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
9/19/2024 21:17	57401	SPAN_T1	39	4	-35	0.18	0.7	0.52	-0.44	-0.47	1	1	0	600	600	0
9/19/2024 21:17	64802	MONE_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
9/19/2024 21:17	66703	STRA_T1	5	48	43	0.46	0.26	-0.2	0	0	0	0	0	0	0	0
9/19/2024 21:17	64801	MONE_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
9/19/2024 21:17	66702	STRA_T1	0	0	0	0	0	0	-0.3	-0.36	2	2	0	1500	1500	0
9/19/2024 21:17	60101	COCA_T1	0	0	0	0	0	0	1.05	1.09	0	0	0	0	0	0
9/19/2024 21:17	44301	BEAV_T2	0	0	0	0	0	0	-1.23	-1.13	2	2	0	1200	1200	0
9/19/2024 21:17	42903	MIDD_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
9/19/2024 21:17	57403	SPAN_T1	27	12	-15	0.24	0.2	-0.04	0.22	0.2	0	0	0	0	0	0
9/19/2024 21:17	64101	REFR_T1	6	0	-6	0.38	0	-0.38	-0.02	-0.02	0	0	0	0	0	0
9/19/2024 21:17	64702	LITI_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
9/19/2024 21:18	43801	SWIL_T1	23	11	-12	0.46	0.7	0.24	0	0	0	0	0	0	0	0
9/19/2024 21:18	40602	PIGR_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
9/19/2024 21:18	66702	STRA_T1	0	0	0	0	0	0	-0.3	-0.36	2	2	0	1500	1500	0
9/19/2024 21:18	44801	EDAN_T2	121	162	41	0.36	0.47	0.11	-2.98	-3.07	0	0	0	0	0	0
9/19/2024 21:18	48901	FOSP_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
9/19/2024 21:18	67201	TEHI_T1	0	0	0	0	0	0	-0.02	0.35	1	1	0	900	900	0
9/19/2024 21:18	66703	STRA_T1	5	48	43	0.46	0.26	-0.2	0	0	0	0	0	0	0	0
9/19/2024 21:18	57403	SPAN_T1	27	12	-15	0.24	0.2	-0.04	0.22	0.2	0	0	0	0	0	0
9/19/2024 21:18	40702	FFLD_T1	99	142	43	0.36	0.38	0.02	-0.44	-0.46	1	1	0	1200	1200	0
9/19/2024 21:18	57401	SPAN_T1	39	4	-35	0.18	0.7	0.52	0	0	0	0	0	0	0	0
9/19/2024 21:18	67602	WARW_T2	0	0	0	0	0	0	0.77	0.61	2	2	0	600	600	0
9/19/2024 21:18	40601	PIGR_T1	15	0	-15	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/19/2024 21:18	43802	SWIL_T1	0	0	0	0	0	0	0.03	0.03	1	1	0	600	600	0
9/19/2024 21:18	59101	WALK_T2	0	0	0	0	0	0	0.8	0.76	1	1	0	600	600	0
9/19/2024 21:18	55101	WERT_T1	0	0	0	0	0	0	-4.54	-4.7	8	8	0	6000	6000	0
9/19/2024 21:18	40703	FFLD_T1	4	4	0	0.7	0.83	0.13	0	0	0	0	0	0	0	0
9/19/2024 21:18	40201	BEGA_T2	3	1	-2	0.2	0.2	0	0	0	0	0	0	0	0	0
9/19/2024 21:18	65901	SAKR_T2	1	1	0	7.9	8.5	0.6	-0.43	-0.42	1	1	0	600	600	0
9/19/2024 21:18	40701	FFLD_T1	71	71	0	0.52	0.62	0.1	0	0	0	0	0	0	0	0
9/19/2024 21:18	44802	EDAN_T2	0	0	0	0	0	0	-1.02	-1	0	0	0	0	0	0
9/19/2024 21:18	53501	EVIL_T2	1	2	1	1.2	0.7	-0.5	-1.29	-1.34	2	2	0	1200	1200	0
9/19/2024 21:18	66702	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 21:19	64201	KINZ_T1	2	6	4	0.85	0.47	-0.38	0	0	0	0	0	0	0	0
9/19/2024 21:19	44801	EDAN_T2	121	162	41	0.36	0.47	0.11	-1.49	-1.54	0	0	0	0	0	0
9/19/2024 21:19	24201	PROV_T3	6	38	32	1.22	0.33	-0.89	-1.17	-1.17	1	1	0	1200	1200	0
9/19/2024 21:19	67001	STHI_T2	1	1	0	0.1	0.1	0	0.54	0.6	0	0	0	0	0	0
9/19/2024 21:19	64203	KINZ_T1	0	0	0	0	0	0	-0.09	-0.11	1	1	0	600	600	0
9/19/2024 21:19	64101	REFR_T1	6	0	-6	0.38	0	-0.38	-0.01	-0.01	0	0	0	0	0	0
9/19/2024 21:19	64202	KINZ_T1	3	4	1	0.53	0.6	0.07	0	0	0	0	0	0	0	0
9/19/2024 21:19	66703	STRA_T1	5	48	43	0.46	0.26	-0.2	0	0	0	0	0	0	0	0
9/19/2024 21:19	55105	WERT_T1	0	0	0	0	0	0	-0.13	-0.12	1	1	0	900	900	0
9/19/2024 21:19	63305	GREE_T1	15	4	-11	0.47	0.1	-0.37	-2.05	-1.1	1	0	-1	900	0	-900
9/19/2024 21:19	24204	PROV_T3	4	14	10	1.58	0.52	-1.06	0	0	0	0	0	0	0	0
9/19/2024 21:19	64204	KINZ_T1	1	10	9	1.5	0.27	-1.23	0	0	0	0	0	0	0	0
9/19/2024 21:19	66505	SMAN_T2	2	0	-2	0.2	0	-0.2	0.52	0.34	4	4	0	3000	3000	0
9/19/2024 21:19	46101	MACI_T2	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
9/19/2024 21:19	41901	REED_T1	9	6	-3	0.78	0.23	-0.55	0	0	0	0	0	0	0	0
9/19/2024 21:19	67605	WARW_T1	4	11	7	1.18	0.54	-0.64	-1.07	-1.07	0	0	0	0	0	0
9/19/2024 21:19	41902	REED_T1	0	0	0	0	0	0	1.11	1.09	0	0	0	0	0	0
9/19/2024 21:19	63801	HEMP_T1	0	0	0	0	0	0	-0.55	-0.59	1	1	0	900	900	0
9/19/2024 21:19	63804	HEMP_T1	1	1	0	5.6	5.6	0	-0.55	-0.55	0	0	0	0	0	0
9/19/2024 21:19	63304	GREE_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 21:19	46203	DANV_T2	1	1	0	8	8.2	0.2	-0.56	-0.56	0	0	0	0	0	0
9/19/2024 21:19	44601	SALE_T2	0	0	0	0	0	0	0	0	1	1	0	300	300	0
9/19/2024 21:20	45802	HEGI_T2	37	47	10	0.65	1.35	0.7	0.56	0.37	0	0	0	0	0	0
9/19/2024 21:20	66703	STRA_T1	5	48	43	0.46	0.26	-0.2	-0.1	-0.08	0	0	0	0	0	0
9/19/2024 21:20	66502	SMAN_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
9/19/2024 21:20	58401	MORO_T1	0	0	0	0	0	0	-1.95	-0.68	2	0	-2	1200	0	-1200
9/19/2024 21:20	66505	SMAN_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/19/2024 21:20	57203	ROSS_T1	0	0	0	0	0	0	-0.01	0.63	0	0	0	0	0	0
9/19/2024 21:20	63801	HEMP_T1	0	0	0	0	0	0	-0.55	-0.59	1	1	0	900	900	0
9/19/2024 21:20	57201	ROSS_T1	6	0	-6	0.13	0	-0.13	0	0	0	0	0	0	0	0
9/19/2024 21:20	15702	TANN_T2	0	0	0	0	0	0	-0.22	-0.33	0	0	0	0	0	0
9/19/2024 21:20	40902	JESH_T1	0	1	1	0	0.1	0.1	-0.61	-0.65	0	0	0	0	0	0
9/19/2024 21:20	41901	REED_T1	9	6	-3	0.78	0.23	-0.55	0	0	0	0	0	0	0	0
9/19/2024 21:20	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 21:20	21501	CEAV_T2	0	0	0	0	0	0	0.04	1.33	0	0	0	0	0	0
9/19/2024 21:20	46101	MACI_T2	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
9/19/2024 21:20	20601	GRWO_T2	5	6	1	0.56	1.6	1.04	0	0	0	0	0	0	0	0
9/19/2024 21:20	20603	GRWO_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
9/19/2024 21:20	64702	LITI_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
9/19/2024 21:20	63804	HEMP_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
9/19/2024 21:20	53102	WTWN_T1	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
9/19/2024 21:20	48902	FOSP_T2	0	0	0	0	0	0	0.13	0.3	0	0	0	0	0	0
9/19/2024 21:20	15703	TANN_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
9/19/2024 21:21	55101	WERT_T1	0	0	0	0	0	0	-1.18	-1.23	2	2	0	1500	1500	0
9/19/2024 21:21	46504	LOHA_T1	28	31	3	0.26	0.26	0	0	0	0	0	0	0	0	0
9/19/2024 21:21	46203	DANV_T2	1	1	0	8	8.2	0.2	0	0	0	0	0	0	0	0
9/19/2024 21:21	41901	REED_T1	9	6	-3	0.78	0.23	-0.55	0	0	0	0	0	0	0	0
9/19/2024 21:21	42903	MIDD_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
9/19/2024 21:21	63304	GREE_T1	0	4	4	0	0.1	0.1	-1.57	-1.62	0	0	0	0	0	0
9/19/2024 21:21	57501	LAWN_T3	0	0	0	0	0	0	-0.41	-0.47	0	0	0	0	0	0
9/19/2024 21:21	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/19/2024 21:21	42902	MIDD_T2	0	0	0	0	0	0	-0.29	-0.25	0	0	0	0	0	0
9/19/2024 21:21	45802	HEGI_T2	37	47	10	0.65	1.35	0.7	0.56	0.37	0	0	0	0	0	0
9/19/2024 21:21	66505	SMAN_T2	2	0	-2	0.2	0	-0.2	0.17	0.12	2	2	0	1500	1500	0
9/19/2024 21:21	46501	LOHA_T1	1	0	-1	4.1	0	-4.1	0	0	0	0	0	0	0	0
9/19/2024 21:21	67602	WARW_T2	0	0	0	0	0	0	0.31	0.33	1	1	0	300	300	0
9/19/2024 21:21	63501	HEID_TBK1-2	133	137	4	0.3	0.26	-0.04	-0.29	-0.32	1	1	0	900	900	0
9/19/2024 21:21	57401	SPAN_T1	39	4	-35	0.18	0.7	0.52	-0.47	-0.56	1	1	0	600	600	0
9/19/2024 21:21	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
9/19/2024 21:21	47901	HRDG_T1	0	0	0	0	0	0	3.05	2.81	0	0	0	0	0	0
9/19/2024 21:21	63302	GREE_T1	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
9/19/2024 21:21	63305	GREE_T1	15	4	-11	0.47	0.1	-0.37	0	0	0	0	0	0	0	0
9/19/2024 21:21	46506	LOHA_T1	4	4	0	4.25	4.2	-0.05	0	0	0	0	0	0	0	0
9/19/2024 21:21	46206	DANV_T2	0	0	0	0	0	0	1.83	1.8	2	2	0	2100	2100	0
9/19/2024 21:21	53102	WTWN_T1	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
9/19/2024 21:21	53501	EVIL_T2	1	2	1	1.2	0.7	-0.5	-1.34	-1.4	2	2	0	1200	1200	0
9/19/2024 21:21	67002	STHI_T2	0	0	0	0	0	0	0.84	0.86	0	0	0	0	0	0
9/19/2024 21:21	10801	CHHI_T1	0	0	0	0	0	0	-1.13	-1.16	2	2	0	1500	1500	0
9/19/2024 21:21	41902	REED_T1	0	0	0	0	0	0	1.11	1.09	0	0	0	0	0	0
9/19/2024 21:21	57403	SPAN_T1	27	12	-15	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
9/19/2024 21:22	66703	STRA_T1	5	48	43	0.46	0.26	-0.2	-0.08	-0.14	0	0	0	0	0	0
9/19/2024 21:22	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	1	0.99	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/19/2024 21:22	40601	PIGR_T1	15	0	-15	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/19/2024 21:22	64101	REFR_T1	6	0	-6	0.38	0	-0.38	-0.01	-0.01	0	0	0	0	0	0
9/19/2024 21:22	57401	SPAN_T1	39	4	-35	0.18	0.7	0.52	-0.47	-0.56	1	1	0	600	600	0
9/19/2024 21:22	64603	LEOL_T1	0	0	0	0	0	0	0.12	0.08	0	0	0	0	0	0
9/19/2024 21:22	55002	NEWP_T1	4	5	1	0.48	0.56	0.08	0	0	0	0	0	0	0	0
9/19/2024 21:22	55001	NEWP_T1	0	0	0	0	0	0	-0.2	-0.25	0	0	0	0	0	0
9/19/2024 21:22	57403	SPAN_T1	27	12	-15	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
9/19/2024 21:22	15703	TANN_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
9/19/2024 21:22	40602	PIGR_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
9/19/2024 21:22	40802	EXCH_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
9/19/2024 21:22	15702	TANN_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
9/19/2024 21:22	63804	HEMP_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
9/19/2024 21:22	63802	HEMP_T1	0	0	0	0	0	0	0.34	0.29	0	0	0	0	0	0
9/19/2024 21:23	45802	HEGI_T2	37	47	10	0.65	1.35	0.7	0	0	0	0	0	0	0	0
9/19/2024 21:23	48901	FOSP_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
9/19/2024 21:23	63804	HEMP_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
9/19/2024 21:23	64802	MONE_T2	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
9/19/2024 21:23	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 21:23	64801	MONE_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
9/19/2024 21:23	59101	WALK_T2	0	0	0	0	0	0	0.76	0.74	1	1	0	600	600	0
9/19/2024 21:23	58401	MORO_T1	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
9/19/2024 21:23	64101	REFR_T1	6	0	-6	0.38	0	-0.38	-0.02	-0.02	0	0	0	0	0	0
9/19/2024 21:23	61702	ELIZ_T2	0	0	0	0	0	0	-1.76	-1.78	2	2	0	1500	1500	0
9/19/2024 21:23	63802	HEMP_T1	0	0	0	0	0	0	0.34	0.29	0	0	0	0	0	0
9/19/2024 21:23	63501	HEID_TBK1-2	133	137	4	0.3	0.26	-0.04	-0.29	-0.32	1	1	0	900	900	0
9/19/2024 21:23	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 21:24	66505	SMAN_T2	2	0	-2	0.2	0	-0.2	0.17	0.12	2	2	0	1500	1500	0
9/19/2024 21:24	67605	WARW_T1	4	11	7	1.18	0.54	-0.64	-1.07	-1.14	0	0	0	0	0	0
9/19/2024 21:26	67602	WARW_T2	0	0	0	0	0	0	0.31	0.33	1	1	0	300	300	0
9/19/2024 21:27	48901	FOSP_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
9/19/2024 21:34	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 21:34	66504	SMAN_T2	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
9/19/2024 21:42	63804	HEMP_T1	1	1	0	5.7	5.6	-0.1	-0.58	-0.6	0	0	0	0	0	0
9/19/2024 21:52	57203	ROSS_T1	0	0	0	0	0	0	0.54	0.5	0	0	0	0	0	0
9/19/2024 22:10	28102	TWLA_T2	11	15	4	0.3	0.51	0.21	0.2	0.21	0	0	0	0	0	0
9/19/2024 22:17	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/19/2024 22:17	50105	HARR_T3	6	6	0	6.22	5.9	-0.32	0	0	0	0	0	0	0	0
9/19/2024 22:17	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2024 22:17	50103	HARR_T3	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
9/19/2024 22:17	50107	HARR_T3	1	1	0	6.8	6.5	-0.3	0	0	0	0	0	0	0	0
9/19/2024 23:06	50202	HARR_T3	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/19/2024 23:06	50103	HARR_T3	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
9/19/2024 23:06	50107	HARR_T3	1	1	0	6.8	6.3	-0.5	0	0	0	0	0	0	0	0
9/19/2024 23:06	50105	HARR_T3	6	6	0	5.85	5.57	-0.28	0	0	0	0	0	0	0	0
9/19/2024 23:06	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 7:31	14706	TREX_T1	0	0	0	0	0	0	0.29	0.32	2	2	0	2100	2100	0
9/20/2024 7:31	14704	TREX_T1	1	1	0	2.3	0	-2.3	0	0	0	0	0	0	0	0
9/20/2024 7:37	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 7:37	66505	SMAN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/20/2024 7:39	67001	STHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/20/2024 7:39	67002	STHI_T2	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
9/20/2024 7:40	61801	EELI_T2	0	0	0	0	0	0	-0.72	-0.78	1	1	0	600	600	0
9/20/2024 7:49	67001	STHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/20/2024 7:49	67002	STHI_T2	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
9/20/2024 7:51	55002	NEWP_T1	6	6	0	1.15	1.18	0.03	-0.24	-0.25	0	0	0	0	0	0
9/20/2024 7:52	67002	STHI_T2	0	0	0	0	0	0	0.63	0.59	0	0	0	0	0	0
9/20/2024 7:52	55101	WERT_T1	0	0	0	0	0	0	-0.99	-0.91	2	2	0	1500	1500	0
9/20/2024 7:52	45901	AUBU_T1	0	0	0	0	0	0	1.42	1.47	0	0	0	0	0	0
9/20/2024 7:52	67001	STHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/20/2024 7:53	55101	WERT_T1	0	0	0	0	0	0	-0.99	-0.91	2	2	0	1500	1500	0
9/20/2024 7:54	42701	AUGU_T1	1	1	0	1.7	1.7	0	0	0	4	4	0	3600	3600	0
9/20/2024 7:55	55101	WERT_T1	0	0	0	0	0	0	-0.99	-0.91	2	2	0	1500	1500	0
9/20/2024 7:56	24902	WHHA_T1	0	1	1	0	0.2	0.2	1.38	1.42	0	0	0	0	0	0
9/20/2024 8:08	67504	WEWI_T1	0	0	0	0	0	0	-0.32	-0.28	1	1	0	900	900	0
9/20/2024 8:08	46004	BERW_T2	0	0	0	0	0	0	-0.74	-0.69	0	0	0	0	0	0
9/20/2024 8:08	67501	WEWI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/20/2024 8:09	46004	BERW_T2	0	0	0	0	0	0	-1.48	-1.38	0	0	0	0	0	0
9/20/2024 8:09	50701	SMEC_T1	0	0	0	0	0	0	-0.64	-0.67	1	1	0	900	900	0
9/20/2024 8:10	67002	STHI_T2	0	15	15	0	0.15	0.15	0.59	0.76	0	0	0	0	0	0
9/20/2024 8:10	67001	STHI_T2	1	448	447	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/20/2024 8:17	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 8:18	65205	PRIN_T1	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
9/20/2024 8:19	63501	HEID_TBK1-2	2	2	0	0.65	0.95	0.3	0.03	0.1	1	1	0	900	900	0
9/20/2024 8:20	67106	APBI_T2	0	0	0	0	0	0	-3.64	-3.56	4	4	0	3000	3000	0
9/20/2024 8:23	67505	WEWI_T1	0	0	0	0	0	0	-0.23	-0.21	1	1	0	900	900	0
9/20/2024 8:24	60803	BUCK_T1	15	16	1	0.39	0.49	0.1	-2.38	-2.38	2	2	0	1200	1200	0
9/20/2024 8:24	60801	BUCK_T1	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/20/2024 8:26	60803	BUCK_T1	15	16	1	0.39	0.49	0.1	-1.19	-1.19	1	1	0	600	600	0
9/20/2024 8:26	60801	BUCK_T1	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/20/2024 8:28	60803	BUCK_T1	15	16	1	0.39	0.49	0.1	-2.38	-2.38	2	2	0	1200	1200	0
9/20/2024 8:28	60801	BUCK_T1	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/20/2024 8:33	17002	RIRO_T2	9	1	-8	0.12	0.1	-0.02	0.69	0.7	0	0	0	0	0	0
9/20/2024 8:35	54501	ENOL_T2	3	2	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
9/20/2024 8:35	54502	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/20/2024 8:35	54506	ENOL_T2	0	0	0	0	0	0	0.69	0.75	1	1	0	600	600	0
9/20/2024 8:35	54505	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
9/20/2024 8:35	54201	PENN_T1	125	70	-55	0.37	0.32	-0.05	0	0	0	0	0	0	0	0
9/20/2024 8:35	54203	PENN_T1	18	18	0	1.36	1.11	-0.25	0.95	0.96	0	0	0	0	0	0
9/20/2024 8:36	14201	EALL_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
9/20/2024 8:36	54203	PENN_T1	18	18	0	1.36	1.11	-0.25	0	0	0	0	0	0	0	0
9/20/2024 8:36	54201	PENN_T1	125	70	-55	0.37	0.32	-0.05	-0.81	-0.86	0	0	0	0	0	0
9/20/2024 8:37	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/20/2024 8:37	65207	PRIN_T4	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/20/2024 8:37	48303	ORWI_T2	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
9/20/2024 8:37	65206	PRIN_T4	0	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0
9/20/2024 8:37	54202	PENN_T2	0	0	0	0	0	0	0.74	0.72	0	0	0	0	0	0
9/20/2024 8:37	48302	ORWI_T2	2	2	0	1.8	1.75	-0.05	0	0	0	0	0	0	0	0
9/20/2024 8:40	10102	ALLE_T2	1	1	0	6.9	6.3	-0.6	0	0	0	0	0	0	0	0
9/20/2024 8:40	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 8:40	10206	ALLE_T2	1	1	0	1.9	0.9	-1	0	0	0	0	0	0	0	0
9/20/2024 8:40	44301	BEAV_T2	0	0	0	0	0	0	-0.8	-0.02	4	4	0	3000	3000	0
9/20/2024 8:41	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 8:42	44301	BEAV_T2	0	0	0	0	0	0	-0.4	-0.01	2	2	0	1500	1500	0
9/20/2024 8:43	54501	ENOL_T2	3	2	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
9/20/2024 8:43	54505	ENOL_T2	1	1	0	1	0.9	-0.1	-0.65	-0.65	1	1	0	600	600	0
9/20/2024 8:43	54502	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/20/2024 8:49	15704	TANN_T1	0	0	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
9/20/2024 8:49	15701	TANN_T1	2	2	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
9/20/2024 8:50	54203	PENN_T1	18	18	0	1.11	0.8	-0.31	0.96	0.93	0	0	0	0	0	0
9/20/2024 8:50	54201	PENN_T1	70	19	-51	0.32	0.57	0.25	0	0	0	0	0	0	0	0
9/20/2024 8:50	65802	RTWN_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
9/20/2024 8:52	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 8:52	43301	WATS_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/20/2024 8:52	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 8:53	67605	WARW_T1	3	1	-2	0.83	0.9	0.07	-1.05	-0.99	0	0	0	0	0	0
9/20/2024 8:53	54206	PENN_T2	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
9/20/2024 8:54	43304	WATS_T2	0	0	0	0	0	0	0.76	0.55	0	0	0	0	0	0
9/20/2024 8:54	43301	WATS_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
9/20/2024 8:55	45902	AUBU_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
9/20/2024 8:55	45901	AUBU_T1	0	0	0	0	0	0	1.86	1.79	0	0	0	0	0	0
9/20/2024 9:00	46504	LOHA_T1	2	2	0	0.35	0.85	0.5	0	0	0	0	0	0	0	0
9/20/2024 9:00	46506	LOHA_T1	3	3	0	5.77	5.37	-0.4	0	0	0	0	0	0	0	0
9/20/2024 9:00	13503	MCMI_T2	0	1	1	0	0.5	0.5	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 9:00	46501	LOHA_T1	0	0	0	0	0	0	0.07	0.09	1	1	0	1200	1200	0
9/20/2024 9:01	65207	PRIN_T4	1	1	0	0.6	0.7	0.1	0	0	2	2	0	1800	1800	0
9/20/2024 9:01	65206	PRIN_T4	2	2	0	1.7	0	-1.7	0	0	0	0	0	0	0	0
9/20/2024 9:05	66903	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/20/2024 9:05	66901	SHIL_T2	0	0	0	0	0	0	-3.08	-3.03	2	2	0	2400	2400	0
9/20/2024 9:08	63501	HEID_TBK1-2	2	2	0	1.35	0.9	-0.45	0.16	0.09	1	1	0	900	900	0
9/20/2024 9:10	63501	HEID_TBK1-2	2	2	0	1.35	0.9	-0.45	0.16	0.09	1	1	0	900	900	0
9/20/2024 9:17	64904	MILL_T1	1	1	0	0.1	0.1	0	-0.47	-0.4	0	0	0	0	0	0
9/20/2024 9:20	63501	HEID_TBK1-2	2	2	0	0.95	0.3	-0.65	0.33	0.17	2	2	0	1800	1800	0
9/20/2024 9:20	14801	TREI_T2	1	1	0	0.1	0.3	0.2	0.41	0.48	0	0	0	0	0	0
9/20/2024 9:21	63501	HEID_TBK1-2	2	2	0	0.95	0.3	-0.65	0.09	0.09	1	1	0	900	900	0
9/20/2024 9:22	13303	ORVI_T1	0	0	0	0	0	0	-0.12	-0.07	0	0	0	0	0	0
9/20/2024 9:23	63501	HEID_TBK1-2	2	2	0	0.95	0.3	-0.65	0.09	0.09	1	1	0	900	900	0
9/20/2024 9:37	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
9/20/2024 9:37	15702	TANN_T2	0	0	0	0	0	0	-0.37	-0.31	0	0	0	0	0	0
9/20/2024 9:40	20403	ASHF_T2	2	1	-1	0.4	0.8	0.4	0.61	0.53	0	0	0	0	0	0
9/20/2024 9:40	24801	VALM_T1	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
9/20/2024 9:40	24805	VALM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 9:40	20401	ASHF_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/20/2024 9:41	64603	LEOL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 9:41	64602	LEOL_T1	0	0	0	0	0	0	0.25	0.28	0	0	0	0	0	0
9/20/2024 9:42	45902	AUBU_T1	1	1	0	1.1	1.4	0.3	-0.64	-0.58	1	1	0	600	600	0
9/20/2024 9:42	20401	ASHF_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/20/2024 9:42	20403	ASHF_T2	2	1	-1	0.4	0.8	0.4	0.61	0.53	0	0	0	0	0	0
9/20/2024 9:47	58401	MORO_T1	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
9/20/2024 9:48	58401	MORO_T1	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
9/20/2024 9:48	13302	ORVI_T2	0	0	0	0	0	0	1.65	1.58	0	0	0	0	0	0
9/20/2024 9:57	45501	DERR_T2	0	0	0	0	0	0	0.14	0.23	2	2	0	1800	1800	0
9/20/2024 9:57	45502	DERR_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 9:58	45501	DERR_T2	0	0	0	0	0	0	0.14	0.23	2	2	0	1800	1800	0
9/20/2024 9:58	45502	DERR_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 10:00	59003	MIFF_T1	0	1	1	0	0.2	0.2	0.48	0.37	0	0	0	0	0	0
9/20/2024 10:00	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 10:00	24101	EHAZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/20/2024 10:00	28805	LAKE_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
9/20/2024 10:00	63501	HEID_TBK1-2	1	2	1	0.9	0.8	-0.1	0.15	0.11	1	1	0	900	900	0
9/20/2024 10:00	59002	MIFF_T1	6	6	0	0.32	0.53	0.21	0	0	0	0	0	0	0	0
9/20/2024 10:00	24105	EHAZ_T1	4	4	0	6.25	6.25	0	0	0	0	0	0	0	0	0
9/20/2024 10:00	41902	REED_T1	0	0	0	0	0	0	1.05	1.1	0	0	0	0	0	0
9/20/2024 10:00	10205	ALLE_T3	0	2	2	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/20/2024 10:00	57203	ROSS_T1	0	0	0	0	0	0	-0.2	-0.23	0	0	0	0	0	0
9/20/2024 10:00	52403	GRPA_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/20/2024 10:00	57205	ROSS_T1	1	2	1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
9/20/2024 10:00	50201	HARR_T3	1	0	-1	0.2	0	-0.2	0	0	1	1	0	1200	1200	0
9/20/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.69	0.71	0	0	0	0	0	0
9/20/2024 10:00	50105	HARR_T3	6	6	0	5.92	6.1	0.18	0	0	0	0	0	0	0	0
9/20/2024 10:00	52402	GRPA_T2	4	2	-2	0.15	0.35	0.2	0	0	0	0	0	0	0	0
9/20/2024 10:00	59001	MIFF_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/20/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
9/20/2024 10:00	24805	VALM_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/20/2024 10:00	24102	EHAZ_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
9/20/2024 10:00	50107	HARR_T3	1	1	0	6	6.2	0.2	0	0	0	0	0	0	0	0
9/20/2024 10:00	24801	VALM_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
9/20/2024 10:00	24104	EHAZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/20/2024 10:00	13302	ORVI_T2	0	0	0	0	0	0	1.58	1.71	0	0	0	0	0	0
9/20/2024 10:00	10103	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 10:00	50103	HARR_T3	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/20/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.88	-0.83	0	0	0	0	0	0
9/20/2024 10:07	67502	WEWI_T2	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
9/20/2024 10:07	67503	WEWI_T2	1	1	0	8.5	8.1	-0.4	-0.03	-0.07	0	0	0	0	0	0
9/20/2024 10:08	17002	RIRO_T2	1	3	2	0.7	0.6	-0.1	0.83	0.78	0	0	0	0	0	0
9/20/2024 10:09	60803	BUCK_T1	8	8	0	0.24	0.19	-0.05	0	0	0	0	0	0	0	0
9/20/2024 10:09	60801	BUCK_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
9/20/2024 10:09	28102	TWLA_T2	5	10	5	0.26	0.34	0.08	0.18	0.18	0	0	0	0	0	0
9/20/2024 10:09	24902	WHHA_T1	0	1	1	0	0	0	1.5	1.48	0	0	0	0	0	0
9/20/2024 10:13	45501	DERR_T2	0	0	0	0	0	0	0.23	0.26	2	2	0	1800	1800	0
9/20/2024 10:13	63302	GREE_T1	0	0	0	0	0	0	0.8	0.88	0	0	0	0	0	0
9/20/2024 10:13	45502	DERR_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
9/20/2024 10:14	45902	AUBU_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
9/20/2024 10:14	45901	AUBU_T1	0	0	0	0	0	0	1.65	1.73	0	0	0	0	0	0
9/20/2024 10:14	23203	HIRU_T2	15	21	6	0.14	0.15	0.01	0	0	0	0	0	0	0	0
9/20/2024 10:14	23202	HIRU_T2	9	13	4	0.12	0.16	0.04	0.1	0.11	0	0	0	0	0	0
9/20/2024 10:14	23201	HIRU_T2	8	14	6	0.14	0.18	0.04	0	0	0	0	0	0	0	0
9/20/2024 10:14	45501	DERR_T2	0	0	0	0	0	0	0.23	0.26	2	2	0	1800	1800	0
9/20/2024 10:14	45502	DERR_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
9/20/2024 10:16	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 10:17	25402	LAHA_T2	0	0	0	0	0	0	-0.43	-0.39	0	0	0	0	0	0
9/20/2024 10:18	23201	HIRU_T2	9	14	5	0.18	0.19	0.01	0	0	0	0	0	0	0	0
9/20/2024 10:18	55002	NEWP_T1	10	9	-1	0.83	0.88	0.05	-0.17	-0.18	0	0	0	0	0	0
9/20/2024 10:18	23202	HIRU_T2	12	13	1	0.17	0.19	0.02	0	0	0	0	0	0	0	0
9/20/2024 10:18	23203	HIRU_T2	18	12	-6	0.14	0.17	0.03	0.14	0.16	0	0	0	0	0	0
9/20/2024 10:20	55002	NEWP_T1	10	9	-1	0.83	0.88	0.05	-0.17	-0.18	0	0	0	0	0	0
9/20/2024 10:20	24202	PROV_T4	0	1	1	0	2.3	2.3	-0.31	-0.29	1	1	0	1200	1200	0
9/20/2024 10:20	57403	SPAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 10:20	63501	HEID_TBK1-2	2	3	1	0.8	0.53	-0.27	0.11	-0.05	1	1	0	900	900	0
9/20/2024 10:20	57401	SPAN_T1	4	3	-1	0.7	0.83	0.13	-1.6	-1.48	2	2	0	1200	1200	0
9/20/2024 10:20	24203	PROV_T4	0	13	13	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 10:21	50103	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/20/2024 10:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 10:21	50105	HARR_T3	6	6	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
9/20/2024 10:21	50107	HARR_T3	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
9/20/2024 10:21	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 10:22	50107	HARR_T3	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
9/20/2024 10:22	50103	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/20/2024 10:22	67605	WARW_T1	1	1	0	0.4	0.4	0	-0.81	-0.79	0	0	0	0	0	0
9/20/2024 10:22	50105	HARR_T3	6	6	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
9/20/2024 10:23	59101	WALK_T2	0	0	0	0	0	0	2.78	2.78	0	0	0	0	0	0
9/20/2024 10:23	10801	CHHI_T1	0	0	0	0	0	0	-0.48	-0.29	1	1	0	900	900	0
9/20/2024 10:23	66505	SMAN_T2	0	0	0	0	0	0	0.51	0.69	2	2	0	1500	1500	0
9/20/2024 10:23	63501	HEID_TBK1-2	2	3	1	0.8	0.53	-0.27	-0.05	0.01	1	1	0	900	900	0
9/20/2024 10:23	59102	WALK_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
9/20/2024 10:23	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 10:24	57401	SPAN_T1	4	3	-1	0.7	0.83	0.13	-1.48	-1.46	2	2	0	1200	1200	0
9/20/2024 10:24	57403	SPAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 10:24	63501	HEID_TBK1-2	2	3	1	0.8	0.53	-0.27	-0.05	0.01	1	1	0	900	900	0
9/20/2024 10:24	59101	WALK_T2	0	0	0	0	0	0	1.39	1.39	0	0	0	0	0	0
9/20/2024 10:24	59102	WALK_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
9/20/2024 10:25	67605	WARW_T1	1	1	0	0.4	0.4	0	-0.81	-0.79	0	0	0	0	0	0
9/20/2024 10:25	57401	SPAN_T1	4	3	-1	0.7	0.83	0.13	-0.74	-0.73	1	1	0	600	600	0
9/20/2024 10:25	57403	SPAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 10:25	67603	WARW_T1	0	0	0	0	0	0	0.06	0.11	0	0	0	0	0	0
9/20/2024 10:29	15702	TANN_T2	0	0	0	0	0	0	-0.31	-0.24	0	0	0	0	0	0
9/20/2024 10:29	45902	AUBU_T1	1	1	0	1.5	1.4	-0.1	-0.58	-0.51	1	1	0	600	600	0
9/20/2024 10:29	20601	GRWO_T2	1	2	1	0.1	0.2	0.1	1.39	1.42	0	0	0	0	0	0
9/20/2024 10:29	45901	AUBU_T1	0	0	0	0	0	0	1.73	1.74	0	0	0	0	0	0
9/20/2024 10:29	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
9/20/2024 10:36	55101	WERT_T1	0	0	0	0	0	0	-3.41	-3.31	9	9	0	7200	7200	0
9/20/2024 10:37	55101	WERT_T1	0	0	0	0	0	0	-1.14	-1.1	3	3	0	2400	2400	0
9/20/2024 10:37	57403	SPAN_T1	0	5	5	0	0.38	0.38	0.11	0.13	0	0	0	0	0	0
9/20/2024 10:37	57401	SPAN_T1	2	7	5	0.85	0.66	-0.19	-0.73	-0.52	1	1	0	600	600	0
9/20/2024 10:38	55101	WERT_T1	0	0	0	0	0	0	-1.14	-1.1	3	3	0	2400	2400	0
9/20/2024 10:38	66502	SMAN_T2	0	1	1	0	0.3	0.3	0.51	0.58	0	0	0	0	0	0
9/20/2024 10:38	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/20/2024 10:39	55101	WERT_T1	0	0	0	0	0	0	-1.14	-1.1	3	3	0	2400	2400	0
9/20/2024 10:40	15702	TANN_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
9/20/2024 10:40	55101	WERT_T1	0	0	0	0	0	0	-1.14	-1.1	3	3	0	2400	2400	0
9/20/2024 10:40	11102	EGYP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/20/2024 10:40	11104	EGYP_T1	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
9/20/2024 10:40	15703	TANN_T2	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
9/20/2024 10:41	15702	TANN_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
9/20/2024 10:41	15703	TANN_T2	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
9/20/2024 10:42	45902	AUBU_T1	1	1	0	1.4	1.3	-0.1	-0.51	-0.53	1	1	0	600	600	0
9/20/2024 10:42	13101	NHAM_T1	0	0	0	0	0	0	-2.32	-2.15	2	2	0	2400	2400	0
9/20/2024 10:43	16102	BING_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/20/2024 10:43	10705	CATA_T2	0	1	1	0	0.1	0.1	0.34	0.27	0	0	0	0	0	0
9/20/2024 10:43	16101	BING_T2	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
9/20/2024 10:43	11104	EGYP_T1	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
9/20/2024 10:43	20401	ASHF_T2	2	3	1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
9/20/2024 10:43	20403	ASHF_T2	1	4	3	0.8	0.4	-0.4	0.65	0.59	0	0	0	0	0	0
9/20/2024 10:43	11102	EGYP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/20/2024 10:44	20401	ASHF_T2	2	3	1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
9/20/2024 10:44	20403	ASHF_T2	1	4	3	0.8	0.4	-0.4	0.65	0.59	0	0	0	0	0	0
9/20/2024 10:45	45902	AUBU_T1	1	1	0	1.2	1.3	0.1	-0.51	-0.53	1	1	0	600	600	0
9/20/2024 10:45	11104	EGYP_T1	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
9/20/2024 10:45	11102	EGYP_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/20/2024 10:46	43201	MVIL_T2	1	1	0	0.2	0.3	0.1	-1.26	-1.27	0	0	0	0	0	0
9/20/2024 10:52	64801	MONE_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/20/2024 10:52	64802	MONE_T2	0	3	3	0	0.3	0.3	0.41	0.44	0	0	0	0	0	0
9/20/2024 10:54	41602	CLEV_T1	0	3	3	0	0.2	0.2	0	0	0	1	1	0	600	600
9/20/2024 10:55	46206	DANV_T2	1	3	2	2.1	2.3	0.2	2.1	2.08	2	2	0	2100	2100	0
9/20/2024 10:55	46203	DANV_T2	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
9/20/2024 10:56	46206	DANV_T2	1	3	2	2.1	2.3	0.2	2.1	2.08	2	2	0	2100	2100	0
9/20/2024 10:56	46203	DANV_T2	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
9/20/2024 10:57	46206	DANV_T2	1	3	2	2.1	2.3	0.2	2.1	2.08	2	2	0	2100	2100	0
9/20/2024 10:57	46203	DANV_T2	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
9/20/2024 11:00	20601	GRWO_T2	7	13	6	0.33	0.33	0	1.37	1.44	0	0	0	0	0	0
9/20/2024 11:01	43301	WATS_T2	2	2	0	0.5	0.3	-0.2	-0.53	-0.51	1	1	0	900	900	0
9/20/2024 11:05	67001	STHI_T2	3	1	-2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/20/2024 11:05	57403	SPAN_T1	5	12	7	0.38	0.39	0.01	0	0	0	0	0	0	0	0
9/20/2024 11:05	57401	SPAN_T1	7	18	11	0.66	0.48	-0.18	-0.52	-0.38	1	1	0	600	600	0
9/20/2024 11:05	66502	SMAN_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/20/2024 11:05	67002	STHI_T2	2	2	0	0.15	0.15	0	0.99	1.01	0	0	0	0	0	0
9/20/2024 11:05	66504	SMAN_T2	1	1	0	0.2	0.2	0	-2.46	-2.34	2	2	0	2400	2400	0
9/20/2024 11:06	15702	TANN_T2	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
9/20/2024 11:06	15703	TANN_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
9/20/2024 11:07	67502	WEWI_T2	3	2	-1	0.7	0.65	-0.05	-0.13	-0.11	0	0	0	0	0	0
9/20/2024 11:07	66504	SMAN_T2	1	1	0	0.2	0.2	0	-1.17	-1.14	1	1	0	1200	1200	0
9/20/2024 11:07	57401	SPAN_T1	7	18	11	0.66	0.48	-0.18	0	0	0	0	0	0	0	0
9/20/2024 11:07	66502	SMAN_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/20/2024 11:07	15702	TANN_T2	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
9/20/2024 11:07	67001	STHI_T2	3	1	-2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/20/2024 11:07	67002	STHI_T2	2	2	0	0.15	0.15	0	2.02	2.02	0	0	0	0	0	0
9/20/2024 11:07	57403	SPAN_T1	5	12	7	0.38	0.39	0.01	0.28	0.3	0	0	0	0	0	0
9/20/2024 11:07	67503	WEWI_T2	1	1	0	8	8	0	0	0	0	0	0	0	0	0
9/20/2024 11:07	15703	TANN_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
9/20/2024 11:08	67001	STHI_T2	3	1	-2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/20/2024 11:08	44301	BEAV_T2	1	5	4	0.1	0.22	0.12	0	0	0	0	0	0	0	0
9/20/2024 11:08	67002	STHI_T2	2	2	0	0.15	0.15	0	1.01	1.01	0	0	0	0	0	0
9/20/2024 11:08	67502	WEWI_T2	3	2	-1	0.7	0.65	-0.05	-0.13	-0.11	0	0	0	0	0	0
9/20/2024 11:08	67503	WEWI_T2	1	1	0	8	8	0	0	0	0	0	0	0	0	0
9/20/2024 11:09	16101	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/20/2024 11:09	60803	BUCK_T1	13	13	0	0.38	0.29	-0.09	-1.06	-1.05	1	1	0	600	600	0
9/20/2024 11:09	16103	BING_T2	0	1	1	0	0.2	0.2	-1.14	-1.15	1	1	0	900	900	0
9/20/2024 11:09	60801	BUCK_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/20/2024 11:09	57401	SPAN_T1	7	18	11	0.66	0.48	-0.18	0	0	0	0	0	0	0	0
9/20/2024 11:09	57403	SPAN_T1	5	12	7	0.38	0.39	0.01	0.14	0.15	0	0	0	0	0	0
9/20/2024 11:09	16102	BING_T2	1	5	4	0.4	0.32	-0.08	0	0	0	0	0	0	0	0
9/20/2024 11:10	44301	BEAV_T2	1	5	4	0.1	0.22	0.12	-0.46	-0.32	2	2	0	1500	1500	0
9/20/2024 11:12	63501	HEID_TBK1-2	3	2	-1	0.47	0.75	0.28	-0.02	-0.06	1	1	0	900	900	0
9/20/2024 11:12	44301	BEAV_T2	1	5	4	0.1	0.22	0.12	-0.46	-0.32	2	2	0	1500	1500	0
9/20/2024 11:13	21206	ECAR_T2	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
9/20/2024 11:13	63501	HEID_TBK1-2	3	2	-1	0.47	0.75	0.28	-0.02	-0.06	1	1	0	900	900	0
9/20/2024 11:13	21204	ECAR_T2	1	1	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
9/20/2024 11:13	21202	ECAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 11:14	60803	BUCK_T1	13	13	0	0.38	0.29	-0.09	-2.12	-2.1	2	2	0	1200	1200	0
9/20/2024 11:14	44801	EDAN_T2	47	42	-5	0.32	0.31	-0.01	-3.02	-2.88	0	0	0	0	0	0
9/20/2024 11:14	60801	BUCK_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/20/2024 11:16	20601	GRWO_T2	10	40	30	0.37	0.33	-0.04	1.44	1.46	0	0	0	0	0	0
9/20/2024 11:17	46506	LOHA_T1	3	3	0	4.47	4.57	0.1	0	0	0	0	0	0	0	0
9/20/2024 11:17	46503	LOHA_T1	1	0	-1	0.1	0	-0.1	-1.2	-1.2	0	0	0	0	0	0
9/20/2024 11:20	43801	SWIL_T1	2	1	-1	2.65	5.2	2.55	0	0	0	0	0	0	0	0
9/20/2024 11:20	43802	SWIL_T1	0	0	0	0	0	0	-0.06	-0.06	1	1	0	600	600	0
9/20/2024 11:23	24805	VALM_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/20/2024 11:23	24801	VALM_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/20/2024 11:26	43301	WATS_T2	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/20/2024 11:26	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 11:27	20403	ASHF_T2	2	1	-1	0.5	1	0.5	0.56	0.67	0	0	0	0	0	0
9/20/2024 11:27	44801	EDAN_T2	41	37	-4	0.29	0.38	0.09	-1.44	-1.45	0	0	0	0	0	0
9/20/2024 11:27	20401	ASHF_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/20/2024 11:27	43301	WATS_T2	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/20/2024 11:27	43304	WATS_T2	0	0	0	0	0	0	-0.39	-0.15	0	0	0	0	0	0
9/20/2024 11:29	44801	EDAN_T2	41	37	-4	0.29	0.38	0.09	-1.44	-1.45	0	0	0	0	0	0
9/20/2024 11:32	64203	KINZ_T1	1	2	1	0.6	0.5	-0.1	1.12	1.13	2	2	0	900	900	0
9/20/2024 11:32	64204	KINZ_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
9/20/2024 11:33	64101	REFR_T1	1	0	-1	0.4	0	-0.4	-0.03	-0.03	0	0	0	0	0	0
9/20/2024 11:33	27604	PIRI_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
9/20/2024 11:35	50105	HARR_T3	6	7	1	6.6	6.48	-0.12	0	0	0	0	0	0	0	0
9/20/2024 11:35	64101	REFR_T1	1	0	-1	0.4	0	-0.4	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 11:35	14605	SWHI_T1	0	0	0	0	0	0	1.56	1.66	1	1	0	1200	1200	0
9/20/2024 11:35	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/20/2024 11:35	50107	HARR_T3	1	1	0	7.9	7.4	-0.5	0	0	0	0	0	0	0	0
9/20/2024 11:36	43802	SWIL_T1	0	0	0	0	0	0	-0.04	0	1	1	0	600	600	0
9/20/2024 11:36	64101	REFR_T1	1	0	-1	0.4	0	-0.4	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 11:36	14601	SWHI_T1	0	0	0	0	0	0	-1.36	-1.32	0	0	0	0	0	0
9/20/2024 11:36	14705	TREX_T1	0	0	0	0	0	0	-0.08	0	0	0	0	0	0	0
9/20/2024 11:36	50105	HARR_T3	6	7	1	6.6	6.48	-0.12	0	0	0	0	0	0	0	0
9/20/2024 11:36	43801	SWIL_T1	1	2	1	5.2	5.2	0	0	0	0	0	0	0	0	0
9/20/2024 11:36	54203	PENN_T1	5	19	14	0.38	0.63	0.25	0	0	0	0	0	0	0	0
9/20/2024 11:36	54201	PENN_T1	3	9	6	1.1	0.68	-0.42	-0.7	-0.62	0	0	0	0	0	0
9/20/2024 11:36	50107	HARR_T3	1	1	0	7.9	7.4	-0.5	0	0	0	0	0	0	0	0
9/20/2024 11:36	50201	HARR_T3	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
9/20/2024 11:37	64101	REFR_T1	1	0	-1	0.4	0	-0.4	-0.02	-0.02	0	0	0	0	0	0
9/20/2024 11:37	15102	UPHA_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
9/20/2024 11:37	45303	WBER_T2	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
9/20/2024 11:37	15101	UPHA_T1	0	0	0	0	0	0	0.38	0.43	0	0	0	0	0	0
9/20/2024 11:37	27604	PIRI_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
9/20/2024 11:37	14603	SWHI_T1	0	0	0	0	0	0	-1.34	-1.32	2	2	0	1200	1200	0
9/20/2024 11:37	14605	SWHI_T1	0	0	0	0	0	0	1.66	1.73	1	1	0	1200	1200	0
9/20/2024 11:37	14601	SWHI_T1	0	0	0	0	0	0	-0.66	-0.63	0	0	0	0	0	0
9/20/2024 11:37	67803	WLAN_T1	0	0	0	0	0	0	-0.72	-0.68	0	0	0	0	0	0
9/20/2024 11:38	67002	STHI_T2	2	3	1	0.15	0.17	0.02	2.06	2.14	0	0	0	0	0	0
9/20/2024 11:38	14601	SWHI_T1	0	0	0	0	0	0	-1.32	-1.26	0	0	0	0	0	0
9/20/2024 11:38	50105	HARR_T3	6	7	1	6.6	6.48	-0.12	0	0	0	0	0	0	0	0
9/20/2024 11:38	67001	STHI_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/20/2024 11:38	46004	BERW_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/20/2024 11:38	50107	HARR_T3	1	1	0	7.9	7.4	-0.5	0	0	0	0	0	0	0	0
9/20/2024 11:38	42601	TUSC_T1	0	0	0	0	0	0	0.52	0.51	3	3	0	2400	2400	0
9/20/2024 11:38	45303	WBER_T2	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
9/20/2024 11:38	65802	RTWN_T2	1	1	0	0.5	0.8	0.3	0.08	0.2	0	0	0	0	0	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:38	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/20/2024 11:38	57205	ROSS_T1	1	1	0	1	0.8	-0.2	0.61	0.6	0	0	0	0	0	0
9/20/2024 11:38	14705	TREX_T1	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0
9/20/2024 11:38	67402	WAKE_T2	0	0	0	0	0	0	-0.17	-0.16	1	1	0	600	600	0
9/20/2024 11:38	67401	WAKE_T2	0	1	1	0	0.1	0.1	-0.89	-0.93	0	0	0	0	0	0
9/20/2024 11:39	46004	BERW_T2	0	1	1	0	0.8	0.8	-0.36	-0.29	0	0	0	0	0	0
9/20/2024 11:39	67401	WAKE_T2	0	1	1	0	0.1	0.1	-0.89	-0.93	0	0	0	0	0	0
9/20/2024 11:39	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 11:39	57403	SPAN_T1	9	6	-3	0.39	0.4	0.01	0	0	0	0	0	0	0	0
9/20/2024 11:39	27502	WEIS_T2	0	1	1	0	0	0	-0.13	-0.1	0	0	0	0	0	0
9/20/2024 11:39	46203	DANV_T2	1	20	19	6.3	2.02	-4.28	0	0	0	0	0	0	0	0
9/20/2024 11:39	67002	STHI_T2	2	3	1	0.15	0.17	0.02	1.03	1.07	0	0	0	0	0	0
9/20/2024 11:39	44301	BEAV_T2	5	9	4	0.2	0.37	0.17	-0.34	-0.6	2	2	0	1500	1500	0
9/20/2024 11:39	14604	SWHI_T1	0	0	0	0	0	0	0.45	0.35	2	2	0	1500	1500	0
9/20/2024 11:39	57401	SPAN_T1	13	9	-4	0.54	0.59	0.05	-0.58	-0.56	1	1	0	600	600	0
9/20/2024 11:39	65802	RTWN_T2	1	1	0	0.5	0.8	0.3	0.02	0.05	0	0	0	0	0	0
9/20/2024 11:39	14601	SWHI_T1	0	0	0	0	0	0	-1.32	-1.26	0	0	0	0	0	0
9/20/2024 11:39	42601	TUSC_T1	0	0	0	0	0	0	0.52	0.51	3	3	0	2400	2400	0
9/20/2024 11:39	67001	STHI_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/20/2024 11:39	46206	DANV_T2	3	3	0	0.9	0.6	-0.3	2.04	1.86	2	2	0	2100	2100	0
9/20/2024 11:39	67402	WAKE_T2	0	0	0	0	0	0	-0.17	-0.16	1	1	0	600	600	0
9/20/2024 11:40	14602	SWHI_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
9/20/2024 11:40	57401	SPAN_T1	13	9	-4	0.54	0.59	0.05	-0.58	-0.56	1	1	0	600	600	0
9/20/2024 11:40	14706	TREX_T1	0	0	0	0	0	0	0.32	0.34	2	2	0	2100	2100	0
9/20/2024 11:40	57403	SPAN_T1	9	6	-3	0.39	0.4	0.01	0	0	0	0	0	0	0	0
9/20/2024 11:40	44801	EDAN_T2	26	46	20	0.34	0.42	0.08	-1.45	-1.43	0	0	0	0	0	0
9/20/2024 11:40	15102	UPHA_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
9/20/2024 11:40	67402	WAKE_T2	0	0	0	0	0	0	-0.17	-0.16	1	1	0	600	600	0
9/20/2024 11:40	67401	WAKE_T2	0	1	1	0	0.1	0.1	-0.89	-0.93	0	0	0	0	0	0
9/20/2024 11:40	14601	SWHI_T1	0	0	0	0	0	0	-0.66	-0.63	0	0	0	0	0	0
9/20/2024 11:40	14603	SWHI_T1	0	0	0	0	0	0	-2.69	-2.63	4	4	0	2400	2400	0
9/20/2024 11:40	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 11:40	67001	STHI_T2	1	2	1	0.3	0.2	-0.1	0.48	0.5	0	0	0	0	0	0
9/20/2024 11:40	44802	EDAN_T2	0	0	0	0	0	0	-0.84	-0.81	0	0	0	0	0	0
9/20/2024 11:40	67002	STHI_T2	2	3	1	0.15	0.17	0.02	2.06	2.14	0	0	0	0	0	0
9/20/2024 11:40	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 11:40	27502	WEIS_T2	0	1	1	0	0	0	-0.13	-0.1	0	0	0	0	0	0
9/20/2024 11:40	46206	DANV_T2	3	3	0	0.9	0.6	-0.3	4.08	3.72	4	4	0	4200	4200	0
9/20/2024 11:40	15101	UPHA_T1	0	0	0	0	0	0	0.38	0.43	0	0	0	0	0	0
9/20/2024 11:40	46203	DANV_T2	1	20	19	6.3	2.02	-4.28	0	0	0	0	0	0	0	0
9/20/2024 11:40	67605	WARW_T1	1	1	0	0.5	0.6	0.1	-0.65	-0.61	0	0	0	0	0	0
9/20/2024 11:41	44301	BEAV_T2	5	9	4	0.2	0.37	0.17	-0.34	-0.6	2	2	0	1500	1500	0
9/20/2024 11:41	14603	SWHI_T1	0	0	0	0	0	0	-1.34	-1.32	2	2	0	1200	1200	0
9/20/2024 11:41	14601	SWHI_T1	0	0	0	0	0	0	-1.32	-1.26	0	0	0	0	0	0
9/20/2024 11:41	67001	STHI_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/20/2024 11:41	11405	FARM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 11:41	46004	BERW_T2	0	1	1	0	0.8	0.8	-0.36	-0.29	0	0	0	0	0	0
9/20/2024 11:41	67002	STHI_T2	2	3	1	0.15	0.17	0.02	1.03	1.07	0	0	0	0	0	0
9/20/2024 11:42	67001	STHI_T2	1	2	1	0.3	0.2	-0.1	0.24	0.25	0	0	0	0	0	0
9/20/2024 11:42	43304	WATS_T2	0	0	0	0	0	0	-0.23	-0.76	0	0	0	0	0	0
9/20/2024 11:42	41302	FISH_T2	14	12	-2	1.01	0.5	-0.51	0	0	0	0	0	0	0	0
9/20/2024 11:42	46004	BERW_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
9/20/2024 11:42	11405	FARM_T1	0	0	0	0	0	0	-0.53	-0.46	1	1	0	1200	1200	0
9/20/2024 11:42	43301	WATS_T2	1	1	0	0.1	0.2	0.1	-0.54	-0.46	1	1	0	900	900	0
9/20/2024 11:42	41304	FISH_T2	1	1	0	0	0	0	-0.64	-0.61	0	0	0	0	0	0
9/20/2024 11:42	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:42	67002	STHI_T2	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
9/20/2024 11:43	10805	CHHI_T2	1	3	2	8.3	8.9	0.6	-0.59	-0.63	1	1	0	600	600	0
9/20/2024 11:43	62105	ELAN_T1	0	0	0	0	0	0	0.57	0.61	0	0	0	0	0	0
9/20/2024 11:43	46002	BERW_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	900	900	0
9/20/2024 11:43	51101	CARL_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
9/20/2024 11:43	57403	SPAN_T1	9	6	-3	0.39	0.4	0.01	0	0	0	0	0	0	0	0
9/20/2024 11:43	57401	SPAN_T1	13	9	-4	0.54	0.59	0.05	-0.58	-0.56	1	1	0	600	600	0
9/20/2024 11:43	44801	EDAN_T2	26	46	20	0.34	0.42	0.08	-1.45	-1.43	0	0	0	0	0	0
9/20/2024 11:43	46004	BERW_T2	0	1	1	0	0.8	0.8	-0.36	-0.29	0	0	0	0	0	0
9/20/2024 11:43	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 11:44	41202	KENM_T2	0	0	0	0	0	0	0.85	0.92	0	0	0	0	0	0
9/20/2024 11:44	41304	FISH_T2	1	1	0	0	0	0	-0.64	-0.61	0	0	0	0	0	0
9/20/2024 11:44	41302	FISH_T2	14	12	-2	1.01	0.5	-0.51	0	0	0	0	0	0	0	0
9/20/2024 11:44	44801	EDAN_T2	26	46	20	0.34	0.42	0.08	0	0	0	0	0	0	0	0
9/20/2024 11:44	44802	EDAN_T2	0	0	0	0	0	0	-0.84	-0.81	0	0	0	0	0	0
9/20/2024 11:45	28403	HART_T2	0	0	0	0	0	0	-0.61	-0.6	1	1	0	900	900	0
9/20/2024 11:45	44802	EDAN_T2	0	0	0	0	0	0	-0.84	-0.81	0	0	0	0	0	0
9/20/2024 11:45	44801	EDAN_T2	34	45	11	0.37	0.43	0.06	-1.45	-1.43	0	0	0	0	0	0
9/20/2024 11:46	11407	FARM_T1	0	0	0	0	0	0	-0.76	-0.66	0	0	0	0	0	0
9/20/2024 11:47	44703	MUNC_T2	0	0	0	0	0	0	1.11	1.18	0	0	0	0	0	0
9/20/2024 11:48	45701	LIND_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/20/2024 11:48	45702	LIND_T2	2	3	1	1.3	0.93	-0.37	-0.7	-0.62	0	0	0	0	0	0
9/20/2024 11:49	45701	LIND_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/20/2024 11:49	45702	LIND_T2	2	3	1	1.3	0.93	-0.37	-0.35	-0.31	0	0	0	0	0	0
9/20/2024 11:49	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 11:50	28403	HART_T2	0	0	0	0	0	0	-0.61	-0.6	1	1	0	900	900	0
9/20/2024 11:50	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 12:00	44801	EDAN_T2	45	32	-13	0.42	0.37	-0.05	-1.43	-1.42	0	0	0	0	0	0
9/20/2024 12:01	44801	EDAN_T2	45	32	-13	0.42	0.37	-0.05	-1.43	-1.42	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/20/2024 12:10	40201	BEGA_T2	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
9/20/2024 12:12	57401	SPAN_T1	3	3	0	0.9	0.67	-0.23	-0.47	-0.5	1	1	0	600	600	0
9/20/2024 12:12	57403	SPAN_T1	5	3	-2	0.26	0.3	0.04	0	0	0	0	0	0	0	0
9/20/2024 12:15	11804	FRAN_T1	0	2	2	0	0.1	0.1	1.56	1.51	0	0	0	0	0	0
9/20/2024 12:20	67001	STHI_T2	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/20/2024 12:20	67002	STHI_T2	3	2	-1	0.2	0.15	-0.05	1.03	1.05	0	0	0	0	0	0
9/20/2024 12:25	16302	ALPA_T2	0	0	0	0	0	0	-0.09	-0.15	0	0	0	0	0	0
9/20/2024 12:26	16302	ALPA_T2	0	0	0	0	0	0	-0.09	-0.15	0	0	0	0	0	0
9/20/2024 12:27	16302	ALPA_T2	0	0	0	0	0	0	-0.09	-0.15	0	0	0	0	0	0
9/20/2024 12:28	16302	ALPA_T2	0	0	0	0	0	0	-0.09	-0.15	0	0	0	0	0	0
9/20/2024 12:28	21501	CEAV_T2	0	0	0	0	0	0	-0.05	0.03	1	1	0	1200	1200	0
9/20/2024 12:35	67203	TEHI_T1	3	5	2	0.73	1	0.27	2.71	2.66	3	3	0	2100	2100	0
9/20/2024 12:36	64101	REFR_T1	0	15	15	0	0.28	0.28	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 12:40	67605	WARW_T1	2	2	0	0.45	0.35	-0.1	-0.79	-0.77	0	0	0	0	0	0
9/20/2024 12:40	67603	WARW_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/20/2024 12:41	43304	WATS_T2	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
9/20/2024 12:41	43301	WATS_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
9/20/2024 12:51	64101	REFR_T1	10	54	44	0.39	0.26	-0.13	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 12:57	10805	CHHI_T2	1	4	3	8.4	8.7	0.3	-0.52	-0.5	1	1	0	600	600	0
9/20/2024 12:57	46004	BERW_T2	1	1	0	3.8	3.9	0.1	0	0	0	0	0	0	0	0
9/20/2024 12:57	46002	BERW_T2	0	0	0	0	0	0	-0.47	-0.36	1	1	0	900	900	0
9/20/2024 12:58	44801	EDAN_T2	25	11	-14	0.37	0.81	0.44	-1.39	-1.38	0	0	0	0	0	0
9/20/2024 12:58	46802	HEPB_T1	1	1	0	0.1	0.1	0	-0.06	-0.04	0	0	0	0	0	0
9/20/2024 12:59	44703	MUNC_T2	0	0	0	0	0	0	1.2	1.19	0	0	0	0	0	0
9/20/2024 12:59	44801	EDAN_T2	25	11	-14	0.37	0.81	0.44	-1.39	-1.38	0	0	0	0	0	0
9/20/2024 13:01	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 13:02	44801	EDAN_T2	8	7	-1	0.69	1.28	0.59	-1.39	-1.38	0	0	0	0	0	0
9/20/2024 13:06	55002	NEWK_T1	6	7	1	1.07	0.8	-0.27	-0.08	-0.06	0	0	0	0	0	0
9/20/2024 13:07	55103	WERT_T1	1	1	0	3.4	4.4	1	0	0	0	0	0	0	0	0
9/20/2024 13:07	55105	WERT_T1	0	0	0	0	0	0	0.07	0.07	1	1	0	900	900	0
9/20/2024 13:28	13503	MCMI_T2	1	1	0	1.3	1.1	-0.2	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 13:28	10801	CHHI_T1	4	5	1	0.7	0.98	0.28	-1.42	-1.46	3	3	0	2100	2100	0
9/20/2024 13:29	28403	HART_T2	0	0	0	0	0	0	-0.53	-0.53	1	1	0	900	900	0
9/20/2024 13:31	23401	HONE_T2	0	3	3	0	0	0	0.5	0.34	0	0	0	0	0	0
9/20/2024 13:39	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 13:44	44502	HAMI_T2	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
9/20/2024 13:44	44505	HAMI_T2	0	0	0	0	0	0	0.69	0.7	0	0	0	0	0	0
9/20/2024 13:47	44502	HAMI_T2	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
9/20/2024 13:47	44505	HAMI_T2	0	0	0	0	0	0	0.69	0.7	0	0	0	0	0	0
9/20/2024 13:51	48302	ORWI_T2	1	1	0	0.1	0.1	0	0.42	0.41	0	0	0	0	0	0
9/20/2024 13:56	64101	REFR_T1	31	191	160	0.44	0.48	0.04	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 13:58	63501	HEID_TBK1-2	0	0	0	0	0	0	0.18	0.25	1	1	0	900	900	0
9/20/2024 13:59	63501	HEID_TBK1-2	0	0	0	0	0	0	0.18	0.25	1	1	0	900	900	0
9/20/2024 14:01	63501	HEID_TBK1-2	0	3	3	0	0.53	0.53	0.18	0.25	1	1	0	900	900	0
9/20/2024 14:02	41902	REED_T1	2	2	0	0.35	0.25	-0.1	1.28	1.27	0	0	0	0	0	0
9/20/2024 14:07	41902	REED_T1	2	2	0	0.35	0.25	-0.1	1.27	1.22	0	0	0	0	0	0
9/20/2024 14:09	63401	HONY_T1	0	0	0	0	0	0	0.79	0.75	0	0	0	0	0	0
9/20/2024 14:10	55101	WERT_T1	0	0	0	0	0	0	-1.93	-2.02	4	4	0	3300	3300	0
9/20/2024 14:10	55103	WERT_T1	1	1	0	5.2	0	-5.2	0	0	0	0	0	0	0	0
9/20/2024 14:11	64101	REFR_T1	145	192	47	0.49	0.44	-0.05	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 14:11	63501	HEID_TBK1-2	0	3	3	0	0.53	0.53	0.25	0.31	1	1	0	900	900	0
9/20/2024 14:13	45802	HEGI_T2	14	37	23	0.36	0.39	0.03	1.13	1.14	1	1	0	300	300	0
9/20/2024 14:14	45802	HEGI_T2	14	37	23	0.36	0.39	0.03	1.13	1.14	1	1	0	300	300	0
9/20/2024 14:15	63501	HEID_TBK1-2	0	3	3	0	0.53	0.53	0.25	0.31	1	1	0	900	900	0
9/20/2024 14:16	45802	HEGI_T2	33	28	-5	0.37	0.31	-0.06	0	0	0	0	0	0	0	0
9/20/2024 14:24	24901	WHHA_T1	0	1	1	0	0.6	0.6	0.48	0.5	0	0	0	0	0	0
9/20/2024 14:24	24902	WHHA_T1	2	1	-1	0.85	0.9	0.05	0	0	0	0	0	0	0	0
9/20/2024 14:26	24902	WHHA_T1	2	1	-1	0.85	0.9	0.05	0	0	0	0	0	0	0	0
9/20/2024 14:26	24901	WHHA_T1	0	1	1	0	0.6	0.6	0.48	0.5	0	0	0	0	0	0
9/20/2024 14:27	67602	WARW_T2	0	1	1	0	0	0	1.09	1.06	2	2	0	600	600	0
9/20/2024 14:28	67602	WARW_T2	0	1	1	0	0	0	0.54	0.53	1	1	0	300	300	0
9/20/2024 14:30	53903	HALI_T2	1	2	1	3.8	2.55	-1.25	-0.69	-0.62	0	0	0	0	0	0
9/20/2024 14:30	67602	WARW_T2	1	0	-1	0.2	0	-0.2	1.63	1.59	3	3	0	900	900	0
9/20/2024 14:30	53903	HALI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 14:31	24901	WHHA_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/20/2024 14:31	24902	WHHA_T1	1	1	0	0.9	0.7	-0.2	0.87	0.9	0	0	0	0	0	0
9/20/2024 14:31	63501	HEID_TBK1-2	3	2	-1	0.53	0.7	0.17	0.31	0.31	1	1	0	900	900	0
9/20/2024 14:37	13503	MCMI_T2	1	1	0	0.2	0.7	0.5	-0.01	0.03	0	0	0	0	0	0
9/20/2024 14:39	57403	SPAN_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
9/20/2024 14:39	57401	SPAN_T1	0	3	3	0	0.1	0.1	-0.6	-0.44	1	1	0	600	600	0
9/20/2024 14:42	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
9/20/2024 14:42	15702	TANN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 14:44	61702	ELIZ_T2	0	0	0	0	0	0	-1.26	-1.3	2	2	0	1500	1500	0
9/20/2024 14:59	23201	HIRU_T2	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
9/20/2024 14:59	23203	HIRU_T2	0	1	1	0	0.2	0.2	0.17	0.17	0	0	0	0	0	0
9/20/2024 15:01	20601	GRWO_T2	121	116	-5	0.51	0.45	-0.06	1.3	1.31	0	0	0	0	0	0
9/20/2024 15:03	50501	MECH_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
9/20/2024 15:03	50502	MECH_T1	1	1	0	2.4	2.9	0.5	-0.08	-0.08	2	2	0	2100	2100	0
9/20/2024 15:04	50502	MECH_T1	1	1	0	2.4	2.9	0.5	0	0	0	0	0	0	0	0
9/20/2024 15:04	50505	MECH_T1	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
9/20/2024 15:04	50501	MECH_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
9/20/2024 15:05	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 15:05	40601	PIGR_T1	4	3	-1	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
9/20/2024 15:08	24902	WHHA_T1	1	2	1	0.7	1	0.3	0.87	0.89	0	0	0	0	0	0
9/20/2024 15:25	67203	TEHI_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/20/2024 15:25	67201	TEHI_T1	0	0	0	0	0	0	0.86	0.9	2	2	0	1500	1500	0
9/20/2024 15:29	44301	BEAV_T2	3	6	3	0.33	0.15	-0.18	-0.62	-0.59	1	1	0	600	600	0
9/20/2024 15:34	28102	TWLA_T2	2	11	9	0.3	0.29	-0.01	0.23	0.23	0	0	0	0	0	0
9/20/2024 15:35	52004	LING_T2	2	2	0	4.4	4.6	0.2	0.48	0.36	0	0	0	0	0	0
9/20/2024 15:37	65205	PRIN_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
9/20/2024 15:40	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 16:21	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 16:35	52004	LING_T2	2	2	0	4.75	4.35	-0.4	0.31	0.33	0	0	0	0	0	0
9/20/2024 16:55	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 17:13	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 17:30	63304	GREE_T1	0	0	0	0	0	0	-2.18	-2.14	0	0	0	0	0	0
9/20/2024 17:31	63304	GREE_T1	0	0	0	0	0	0	-2.18	-2.14	0	0	0	0	0	0
9/20/2024 17:43	57401	SPAN_T1	2	6	4	0.8	0.38	-0.42	-0.98	-0.93	1	1	0	600	600	0
9/20/2024 17:43	57403	SPAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/20/2024 17:54	24902	WHHA_T1	5	4	-1	0.78	0.8	0.02	0	0	0	0	0	0	0	0
9/20/2024 17:54	24901	WHHA_T1	0	1	1	0	0	0	0.63	0.61	0	0	0	0	0	0
9/20/2024 17:58	60803	BUCK_T1	0	0	0	0	0	0	-0.94	-0.93	1	1	0	600	600	0
9/20/2024 18:00	63305	GREE_T1	0	14	14	0	0.28	0.28	-1.65	-1.7	1	1	0	900	900	0
9/20/2024 18:00	63304	GREE_T1	0	85	85	0	0.14	0.14	0	0	0	0	0	0	0	0
9/20/2024 18:02	63304	GREE_T1	0	85	85	0	0.14	0.14	0	0	0	0	0	0	0	0
9/20/2024 18:02	63305	GREE_T1	0	14	14	0	0.28	0.28	-1.65	-1.7	1	1	0	900	900	0
9/20/2024 18:05	66502	MOXO_T2	0	0	0	0	0	0	-1.39	-1.58	2	2	0	1800	1800	0
9/20/2024 18:07	66502	SMAN_T2	0	0	0	0	0	0	0.35	0.2	0	0	0	0	0	0
9/20/2024 18:07	66505	SMAN_T2	0	0	0	0	0	0	0.12	0.07	3	3	0	2100	2100	0
9/20/2024 18:07	66504	SMAN_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
9/20/2024 19:13	66302	MCGO_T2	0	0	0	0	0	0	-1.33	-0.71	1	0	-1	600	0	-600
9/20/2024 20:07	28102	TWLA_T2	4	12	8	0.53	0.35	-0.18	0.23	0.23	0	0	0	0	0	0
9/20/2024 20:12	15702	TANN_T2	0	0	0	0	0	0	-0.24	-0.19	0	0	0	0	0	0
9/20/2024 20:12	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
9/20/2024 20:17	23201	HIRU_T2	3	4	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/20/2024 20:17	23202	HIRU_T2	0	6	6	0	0.1	0.1	0.13	0.13	0	0	0	0	0	0
9/20/2024 20:17	23203	HIRU_T2	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 20:24	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 20:27	59101	WALK_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
9/20/2024 20:27	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 20:28	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 20:28	59101	WALK_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
9/20/2024 20:37	41902	REED_T1	0	0	0	0	0	0	1.17	1.14	0	0	0	0	0	0
9/20/2024 20:37	41901	REED_T1	3	3	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
9/20/2024 20:41	57401	SPAN_T1	2	2	0	0.65	0.15	-0.5	0	0	0	0	0	0	0	0
9/20/2024 20:41	57403	SPAN_T1	1	0	-1	0.1	0	-0.1	0.2	0.14	0	0	0	0	0	0
9/20/2024 20:46	27502	WEIS_T2	18	0	-18	0.83	0	-0.83	-0.17	-0.45	0	0	0	0	0	0
9/20/2024 20:46	45902	AUBU_T1	0	9	9	0	0.21	0.21	0	0	0	0	0	0	0	0
9/20/2024 20:46	45901	AUBU_T1	0	0	0	0	0	0	1.69	1.69	0	0	0	0	0	0
9/20/2024 20:48	27502	WEIS_T2	18	0	-18	0.83	0	-0.83	-0.17	-0.45	0	0	0	0	0	0
9/20/2024 20:48	13101	NHAM_T1	0	0	0	0	0	0	-2.4	-2.48	2	2	0	2400	2400	0
9/20/2024 20:50	43201	MVIL_T2	1	1	0	0.9	0	-0.9	-0.32	-0.34	0	0	0	0	0	0
9/20/2024 20:53	24801	VALM_T1	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
9/20/2024 20:54	17002	RIRO_T2	3	0	-3	0.1	0	-0.1	0.44	0.47	0	0	0	0	0	0
9/20/2024 20:55	10805	CHHI_T2	1	1	0	7.7	7.9	0.2	-0.77	-0.81	1	1	0	600	600	0
9/20/2024 20:56	67502	WEWI_T2	0	7	7	0	0.1	0.1	-1.18	-1.17	1	1	0	900	900	0
9/20/2024 20:56	67503	WEWI_T2	1	1	0	7.2	7.7	0.5	0	0	0	0	0	0	0	0
9/20/2024 20:56	48302	ORWI_T2	2	2	0	1.2	1.4	0.2	0.12	0.12	0	0	0	0	0	0
9/20/2024 20:56	14601	SWHI_T1	0	0	0	0	0	0	-0.53	-0.59	0	0	0	0	0	0
9/20/2024 20:57	16102	BING_T2	15	1	-14	0.35	0	-0.35	0	0	0	0	0	0	0	0
9/20/2024 20:57	16101	BING_T2	0	0	0	0	0	0	0.6	0.62	0	0	0	0	0	0
9/20/2024 20:57	50107	HARR_T3	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
9/20/2024 20:57	50202	HARR_T3	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/20/2024 20:57	15703	TANN_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
9/20/2024 20:57	15702	TANN_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
9/20/2024 20:57	16302	ALPA_T2	0	0	0	0	0	0	-0.38	0.93	0	0	0	0	0	0
9/20/2024 20:57	50103	HARR_T3	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
9/20/2024 20:57	50105	HARR_T3	6	6	0	5.65	5.48	-0.17	0	0	0	0	0	0	0	0
9/20/2024 20:57	50201	HARR_T3	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
9/20/2024 20:58	67001	STHI_T2	1	2	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
9/20/2024 20:58	65802	RTWN_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
9/20/2024 20:58	67002	STHI_T2	0	0	0	0	0	0	0.97	0.95	0	0	0	0	0	0
9/20/2024 20:59	45902	AUBU_T1	0	9	9	0	0.21	0.21	-0.83	-0.87	1	1	0	600	600	0
9/20/2024 20:59	13303	ORVI_T1	0	0	0	0	0	0	1.17	1.2	0	0	0	0	0	0
9/20/2024 20:59	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 20:59	14601	SWHI_T1	0	0	0	0	0	0	-0.53	-0.59	0	0	0	0	0	0
9/20/2024 20:59	10103	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 20:59	13302	ORVI_T2	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
9/20/2024 20:59	11104	EGYP_T1	2	7	5	0.4	0.2	-0.2	0.35	0.75	0	0	0	0	0	0
9/20/2024 20:59	15101	UPHA_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
9/20/2024 21:00	45901	AUBU_T1	0	0	0	0	0	0	1.69	1.74	0	0	0	0	0	0
9/20/2024 21:00	46002	BERW_T2	0	0	0	0	0	0	-0.96	-0.98	1	1	0	900	900	0
9/20/2024 21:00	24902	WHHA_T1	0	0	0	0	0	0	0.83	0.8	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/20/2024 21:00	45902	AUBU_T1	9	23	14	0.18	0.31	0.13	-0.83	-0.87	1	1	0	600	600	0
9/20/2024 21:00	14603	SWHI_T1	0	0	0	0	0	0	-0.63	-0.68	1	1	0	600	600	0
9/20/2024 21:00	66504	SMAN_T2	0	3	3	0	8.53	8.53	-0.06	-0.01	0	0	0	0	0	0
9/20/2024 21:00	65802	RTWN_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
9/20/2024 21:00	14601	SWHI_T1	0	0	0	0	0	0	-1.06	-1.18	0	0	0	0	0	0
9/20/2024 21:00	16302	ALPA_T2	0	0	0	0	0	0	-0.38	0.93	0	0	0	0	0	0
9/20/2024 21:01	67603	WARW_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
9/20/2024 21:01	14604	SWHI_T1	0	0	0	0	0	0	-1	-1.04	2	2	0	2100	2100	0
9/20/2024 21:01	11407	FARM_T1	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
9/20/2024 21:01	23202	HIRU_T2	13	4	-9	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
9/20/2024 21:01	67605	WARW_T1	6	13	7	0.58	0.38	-0.2	-1.06	-0.93	0	0	0	0	0	0
9/20/2024 21:01	23201	HIRU_T2	27	4	-23	0.13	0.15	0.02	0	0	0	0	0	0	0	0
9/20/2024 21:01	42601	TUSC_T1	0	1	1	0	0.1	0.1	-0.3	-0.26	2	2	0	1800	1800	0
9/20/2024 21:01	25402	LAHA_T2	0	0	0	0	0	0	-0.82	-0.87	0	0	0	0	0	0
9/20/2024 21:01	23203	HIRU_T2	16	2	-14	0.11	0.1	-0.01	0.18	0.18	0	0	0	0	0	0
9/20/2024 21:01	11405	FARM_T1	1	1	0	5.6	5.2	-0.4	0	0	0	0	0	0	0	0
9/20/2024 21:01	16302	ALPA_T2	0	0	0	0	0	0	-0.38	0.93	0	0	0	0	0	0
9/20/2024 21:02	14603	SWHI_T1	0	0	0	0	0	0	-0.63	-0.68	1	1	0	600	600	0
9/20/2024 21:02	10705	CATA_T2	0	0	0	0	0	0	-0.88	-0.93	0	0	0	0	0	0
9/20/2024 21:02	67001	STHI_T2	1	64	63	0.4	0.11	-0.29	0	0	0	0	0	0	0	0
9/20/2024 21:02	67002	STHI_T2	0	1	1	0	0.1	0.1	3.89	3.81	0	0	0	0	0	0
9/20/2024 21:02	46206	DANV_T2	0	0	0	0	0	0	0.4	-0.04	1	1	0	900	900	0
9/20/2024 21:02	44801	EDAN_T2	127	164	37	0.33	0.46	0.13	0	0	0	0	0	0	0	0
9/20/2024 21:02	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/20/2024 21:02	44802	EDAN_T2	0	0	0	0	0	0	-0.53	-0.51	0	0	0	0	0	0
9/20/2024 21:02	11407	FARM_T1	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
9/20/2024 21:02	11405	FARM_T1	1	1	0	5.6	5.2	-0.4	0	0	0	0	0	0	0	0
9/20/2024 21:02	46203	DANV_T2	1	1	0	8.1	8.8	0.7	0	0	0	0	0	0	0	0
9/20/2024 21:03	43802	SWIL_T1	0	0	0	0	0	0	0.03	0	1	1	0	600	600	0
9/20/2024 21:03	11405	FARM_T1	1	1	0	5.6	5.2	-0.4	-0.45	-0.43	1	1	0	1200	1200	0
9/20/2024 21:03	45902	AUBU_T1	9	23	14	0.18	0.31	0.13	-0.83	-0.87	1	1	0	600	600	0
9/20/2024 21:03	67001	STHI_T2	1	64	63	0.4	0.11	-0.29	0.29	0.33	0	0	0	0	0	0
9/20/2024 21:03	20402	ASHF_T2	5	0	-5	0.26	0	-0.26	0	0	0	0	0	0	0	0
9/20/2024 21:03	23202	HIRU_T2	13	4	-9	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
9/20/2024 21:03	65502	MOJO_T2	115	253	138	0.14	0.2	0.06	-1.47	-1.47	1	1	0	900	900	0
9/20/2024 21:03	65503	MOJO_T2	9	36	27	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/20/2024 21:03	43801	SWIL_T1	77	29	-48	0.34	0.41	0.07	0	0	0	0	0	0	0	0
9/20/2024 21:03	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	0.39	0.3	0	0	0	0	0	0
9/20/2024 21:03	23201	HIRU_T2	27	4	-23	0.13	0.15	0.02	0	0	0	0	0	0	0	0
9/20/2024 21:03	23203	HIRU_T2	16	2	-14	0.11	0.1	-0.01	0.18	0.18	0	0	0	0	0	0
9/20/2024 21:03	67002	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 21:03	20401	ASHF_T2	7	1	-6	0.34	0	-0.34	0	0	0	0	0	0	0	0
9/20/2024 21:03	63501	HEID_TBK1-2	1	1	0	1.2	1.5	0.3	0.71	0.68	0	0	0	0	0	0
9/20/2024 21:04	42601	TUSC_T1	0	1	1	0	0.1	0.1	-0.3	-0.26	2	2	0	1800	1800	0
9/20/2024 21:04	67605	WARW_T1	6	13	7	0.58	0.38	-0.2	-1.06	-0.93	0	0	0	0	0	0
9/20/2024 21:04	43302	WATS_T2	4	4	0	0.18	0.65	0.47	0	0	0	0	0	0	0	0
9/20/2024 21:04	46802	HEPB_T1	39	1	-38	0.18	0.7	0.52	-0.12	-0.15	0	0	0	0	0	0
9/20/2024 21:04	46002	BERW_T2	0	0	0	0	0	0	-0.96	-0.98	1	1	0	900	900	0
9/20/2024 21:04	24901	WHHA_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
9/20/2024 21:04	23401	HONE_T2	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
9/20/2024 21:04	20601	GRWO_T2	0	0	0	0	0	0	0.87	0.82	0	0	0	0	0	0
9/20/2024 21:04	43301	WATS_T2	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
9/20/2024 21:04	55101	WERT_T1	0	0	0	0	0	0	-1.93	-1.12	3	2	-1	2400	1500	-900
9/20/2024 21:04	20603	GRWO_T2	2	4	2	0.1	0.1	0	0	0	0	0	0	0	0	0
9/20/2024 21:04	63501	HEID_TBK1-2	1	1	0	1.2	1.5	0.3	0.71	0.68	0	0	0	0	0	0
9/20/2024 21:04	45501	DERR_T2	0	0	0	0	0	0	0.2	0.18	2	2	0	1800	1800	0
9/20/2024 21:04	13501	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 21:05	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 21:05	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/20/2024 21:05	45501	DERR_T2	0	0	0	0	0	0	0.2	0.18	2	2	0	1800	1800	0
9/20/2024 21:05	46004	BERW_T2	0	0	0	0	0	0	-0.37	-0.43	0	0	0	0	0	0
9/20/2024 21:05	67002	STHI_T2	0	1	1	0	0.1	0.1	0.97	0.95	0	0	0	0	0	0
9/20/2024 21:05	67001	STHI_T2	1	64	63	0.4	0.11	-0.29	0	0	0	0	0	0	0	0
9/20/2024 21:05	14601	SWHI_T1	0	0	0	0	0	0	-0.53	-0.59	0	0	0	0	0	0
9/20/2024 21:05	46002	BERW_T2	0	0	0	0	0	0	-1.92	-1.96	2	2	0	1800	1800	0
9/20/2024 21:05	44801	EDAN_T2	127	164	37	0.33	0.46	0.13	0	0	0	0	0	0	0	0
9/20/2024 21:05	44802	EDAN_T2	0	0	0	0	0	0	-0.53	-0.51	0	0	0	0	0	0
9/20/2024 21:05	11104	EGYP_T1	2	5	3	0.2	0	-0.2	0.35	0.75	0	0	0	0	0	0
9/20/2024 21:05	43301	WATS_T2	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
9/20/2024 21:05	41304	FISH_T2	1	1	0	0	0	0	-0.82	-0.86	0	0	0	0	0	0
9/20/2024 21:05	65802	RTWN_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
9/20/2024 21:05	41302	FISH_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/20/2024 21:05	15702	TANN_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
9/20/2024 21:05	43302	WATS_T2	4	4	0	0.18	0.65	0.47	0	0	0	0	0	0	0	0
9/20/2024 21:06	63501	HEID_TBK1-2	1	1	0	1.2	1.5	0.3	0.71	0.68	0	0	0	0	0	0
9/20/2024 21:06	63305	GREE_T1	0	0	0	0	0	0	-0.96	-0.89	0	0	0	0	0	0
9/20/2024 21:06	66504	SMAN_T2	0	3	3	0	8.53	8.53	-0.03	0	0	0	0	0	0	0
9/20/2024 21:06	67002	STHI_T2	0	1	1	0	0.1	0.1	0.97	0.95	0	0	0	0	0	0
9/20/2024 21:06	65802	RTWN_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
9/20/2024 21:06	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 21:06	67402	WAKE_T2	0	0	0	0	0	0	-0.25	-0.28	1	1	0	600	600	0
9/20/2024 21:06	55002	NEWP_T1	6	6	0	0.9	0.97	0.07	-0.14	-0.18	0	0	0	0	0	0
9/20/2024 21:06	44702	MUNC_T2	76	6	-70	0.33	0.13	-0.2	0	0	0	0	0	0	0	0
9/20/2024 21:06	27604	PIRI_T1	0	0	0	0	0	0	0.64	0.66	0	0	0	0	0	0
9/20/2024 21:06	62105	ELAN_T1	0	2	2	0	0.1	0.1	0.81	0.78	0	0	0	0	0	0
9/20/2024 21:06	24202	PROV_T4	3	8	5	0.67	0.1	-0.57	-0.18	-0.19	1	1	0	1200	1200	0
9/20/2024 21:06	40601	PIGR_T1	19	113	94	0.12	0.24	0.12	0	0	0	0	0	0	0	0
9/20/2024 21:06	64101	REFR_T1	9	0	-9	0.27	0	-0.27	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 21:06	44701	MUNC_T2	13	1	-12	0.21	0.3	0.09	0	0	0	0	0	0	0	0
9/20/2024 21:06	67401	WAKE_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 21:06	67001	STHI_T2	1	64	63	0.4	0.11	-0.29	0	0	0	0	0	0	0	0
9/20/2024 21:06	60803	BUCK_T1	12	16	4	0.43	0.58	0.15	0	0	0	0	0	0	0	0
9/20/2024 21:06	11104	EGYP_T1	2	5	3	0.2	0	-0.2	0.75	0.7	0	0	0	0	0	0
9/20/2024 21:06	44703	MUNC_T2	3	3	0	0.93	0.83	-0.1	0	0	0	0	0	0	0	0
9/20/2024 21:06	62101	ELAN_T1	1	2	1	2.8	1.4	-1.4	0	0	0	0	0	0	0	0
9/20/2024 21:06	60801	BUCK_T1	4	21	17	0.1	0.2	0.1	-0.13	-0.15	0	0	0	0	0	0
9/20/2024 21:07	50202	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/20/2024 21:07	50201	HARR_T3	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
9/20/2024 21:07	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 21:07	15702	TANN_T2	0	0	0	0	0	0	-0.25	-0.31	0	0	0	0	0	0
9/20/2024 21:07	14601	SWHI_T1	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
9/20/2024 21:07	67602	WARW_T2	0	0	0	0	0	0	0.68	0.61	0	0	0	0	0	0
9/20/2024 21:07	50103	HARR_T3	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/20/2024 21:07	14706	TREX_T1	1	1	0	1.5	0.3	-1.2	-0.24	-0.26	2	2	0	2100	2100	0
9/20/2024 21:07	44703	MUNC_T2	3	3	0	0.93	0.83	-0.1	0.71	0.69	0	0	0	0	0	0
9/20/2024 21:07	64101	REFR_T1	9	0	-9	0.27	0	-0.27	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 21:07	44505	HAMI_T2	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
9/20/2024 21:07	44502	HAMI_T2	1	1	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
9/20/2024 21:07	46203	DANV_T2	1	1	0	8.1	8.8	0.7	0	0	0	0	0	0	0	0
9/20/2024 21:07	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/20/2024 21:07	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 21:07	51102	CARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/20/2024 21:07	67002	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 21:07	44701	MUNC_T2	13	1	-12	0.21	0.3	0.09	0	0	0	0	0	0	0	0
9/20/2024 21:07	50105	HARR_T3	6	6	0	5.52	5.5	-0.02	0	0	0	0	0	0	0	0
9/20/2024 21:07	44702	MUNC_T2	76	6	-70	0.33	0.13	-0.2	0	0	0	0	0	0	0	0
9/20/2024 21:07	44801	EDAN_T2	127	164	37	0.33	0.46	0.13	0	0	0	0	0	0	0	0
9/20/2024 21:07	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 21:07	14605	SWHI_T1	0	0	0	0	0	0	1.46	1.43	1	1	0	1200	1200	0
9/20/2024 21:07	67605	WARW_T1	6	13	7	0.58	0.38	-0.2	-0.93	-0.93	0	0	0	0	0	0
9/20/2024 21:07	44802	EDAN_T2	0	0	0	0	0	0	-1.02	-1.02	0	0	0	0	0	0
9/20/2024 21:07	51101	CARL_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
9/20/2024 21:07	15101	UPHA_T1	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
9/20/2024 21:07	67001	STHI_T2	1	64	63	0.4	0.11	-0.29	0.33	0.31	0	0	0	0	0	0
9/20/2024 21:07	46206	DANV_T2	0	0	0	0	0	0	-0.04	-0.11	1	1	0	900	900	0
9/20/2024 21:07	50107	HARR_T3	1	1	0	6.2	6.5	0.3	0	0	0	0	0	0	0	0
9/20/2024 21:08	66504	SMAN_T2	0	3	3	0	8.53	8.53	0	0	0	0	0	0	0	0
9/20/2024 21:08	67002	STHI_T2	0	1	1	0	0.1	0.1	0.95	0.95	0	0	0	0	0	0
9/20/2024 21:08	67001	STHI_T2	1	64	63	0.4	0.11	-0.29	0	0	0	0	0	0	0	0
9/20/2024 21:08	43802	SWIL_T1	0	0	0	0	0	0	0.03	0.03	1	1	0	600	600	0
9/20/2024 21:08	67502	WEWI_T2	0	60	60	0	0.16	0.16	-1.17	-1.17	1	1	0	900	900	0
9/20/2024 21:08	40601	PIGR_T1	19	113	94	0.12	0.24	0.12	0	0	0	0	0	0	0	0
9/20/2024 21:08	57403	SPAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 21:08	57401	SPAN_T1	2	2	0	0.15	0.75	0.6	-0.99	-1.04	2	2	0	1200	1200	0
9/20/2024 21:08	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 21:08	24901	WHHA_T1	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
9/20/2024 21:08	63501	HEID_TBK1-2	1	1	0	1.2	1.5	0.3	1.35	1.35	0	0	0	0	0	0
9/20/2024 21:08	67503	WEWI_T2	1	1	0	7.4	8.2	0.8	0	0	0	0	0	0	0	0
9/20/2024 21:08	43801	SWIL_T1	77	29	-48	0.34	0.41	0.07	0	0	0	0	0	0	0	0
9/20/2024 21:08	66502	SMAN_T2	0	0	0	0	0	0	0.11	0.15	0	0	0	0	0	0
9/20/2024 21:09	43302	WATS_T2	4	4	0	0.18	0.65	0.47	0	0	0	0	0	0	0	0
9/20/2024 21:09	53903	HALI_T2	2	2	0	0.6	1.05	0.45	0	0	0	0	0	0	0	0
9/20/2024 21:09	41304	FISH_T2	1	1	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
9/20/2024 21:09	53902	HALI_T2	1	1	0	4.8	5.1	0.3	-0.21	-0.21	0	0	0	0	0	0
9/20/2024 21:09	53901	HALI_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/20/2024 21:09	67805	WLAN_T1	7	131	124	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/20/2024 21:09	11804	FRAN_T1	0	0	0	0	0	0	0.94	0.92	0	0	0	0	0	0
9/20/2024 21:09	10801	CHHI_T1	0	0	0	0	0	0	-1.13	-1.18	2	2	0	1500	1500	0
9/20/2024 21:09	67602	WARW_T2	0	0	0	0	0	0	0.68	0.61	0	0	0	0	0	0
9/20/2024 21:09	45303	WBER_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
9/20/2024 21:09	20403	ASHF_T2	1	0	-1	0.1	0	-0.1	0.3	0.34	0	0	0	0	0	0
9/20/2024 21:09	67203	TEHI_T1	0	0	0	0	0	0	1.91	1.78	1	1	0	900	900	0
9/20/2024 21:09	41302	FISH_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/20/2024 21:09	67803	WLAN_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
9/20/2024 21:09	20401	ASHF_T2	7	1	-6	0.34	0	-0.34	0	0	0	0	0	0	0	0
9/20/2024 21:09	20402	ASHF_T2	5	0	-5	0.26	0	-0.26	0	0	0	0	0	0	0	0
9/20/2024 21:09	14605	SWHI_T1	0	0	0	0	0	0	1.46	1.43	1	1	0	1200	1200	0
9/20/2024 21:09	65205	PRIN_T1	1	3	2	2	0.8	-1.2	0	0	0	0	0	0	0	0
9/20/2024 21:09	63305	GREE_T1	0	0	0	0	0	0	-0.89	-0.97	0	0	0	0	0	0
9/20/2024 21:09	16302	ALPA_T2	0	0	0	0	0	0	0.93	0.92	0	0	0	0	0	0
9/20/2024 21:09	43304	WATS_T2	0	0	0	0	0	0	-1.67	-1.78	0	0	0	0	0	0
9/20/2024 21:09	64101	REFR_T1	9	0	-9	0.27	0	-0.27	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 21:10	46506	LOHA_T1	3	3	0	5.7	5.53	-0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/20/2024 21:10	27604	PIRI_T1	0	0	0	0	0	0	0.64	0.66	0	0	0	0	0	0
9/20/2024 21:10	10805	CHHI_T2	1	1	0	7.9	7.7	-0.2	-0.81	-0.81	1	1	0	600	600	0
9/20/2024 21:10	14601	SWHI_T1	0	0	0	0	0	0	-1.18	-1.14	0	0	0	0	0	0
9/20/2024 21:10	66505	SMAN_T2	0	0	0	0	0	0	0.24	0.25	2	2	0	1500	1500	0
9/20/2024 21:10	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 21:10	63501	HEID_TBK1-2	1	1	0	1.2	1.5	0.3	0.68	0.67	0	0	0	0	0	0
9/20/2024 21:10	44505	HAMI_T2	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
9/20/2024 21:10	46504	LOHA_T1	2	2	0	0.6	1.25	0.65	0	0	0	0	0	0	0	0
9/20/2024 21:10	13501	MCMI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 21:10	52002	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/20/2024 21:10	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
9/20/2024 21:10	45303	WBER_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
9/20/2024 21:10	66504	SMAN_T2	0	3	3	0	8.53	8.53	0	0	0	0	0	0	0	0
9/20/2024 21:10	64101	REFR_T1	9	0	-9	0.27	0	-0.27	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 21:10	57205	ROSS_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
9/20/2024 21:10	67602	WARW_T2	0	0	0	0	0	0	0.68	0.61	0	0	0	0	0	0
9/20/2024 21:10	52006	LING_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/20/2024 21:10	44502	HAMI_T2	1	1	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
9/20/2024 21:10	57401	SPAN_T1	2	2	0	0.15	0.75	0.6	-1.48	-1.56	3	3	0	1800	1800	0
9/20/2024 21:10	52004	LING_T2	2	2	0	5.7	6.15	0.45	0.25	0.25	0	0	0	0	0	0
9/20/2024 21:10	57201	ROSS_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
9/20/2024 21:10	57403	SPAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 21:10	45702	LIND_T2	1	5	4	0.7	0.28	-0.42	-0.43	-0.45	0	0	0	0	0	0
9/20/2024 21:11	66504	SMAN_T2	0	3	3	0	8.53	8.53	0	0	0	0	0	0	0	0
9/20/2024 21:11	63304	GREE_T1	0	0	0	0	0	0	-1.36	-1.36	0	0	0	0	0	0
9/20/2024 21:11	14601	SWHI_T1	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
9/20/2024 21:11	63404	HONY_T1	0	13	13	0	0.11	0.11	0	0	0	0	0	0	0	0
9/20/2024 21:11	66505	SMAN_T2	0	0	0	0	0	0	0.24	0.25	2	2	0	1500	1500	0
9/20/2024 21:11	52004	LING_T2	2	2	0	5.7	6.15	0.45	0.25	0.25	0	0	0	0	0	0
9/20/2024 21:11	46203	DANV_T2	1	1	0	8.1	8.8	0.7	0	0	0	0	0	0	0	0
9/20/2024 21:11	64101	REFR_T1	9	0	-9	0.27	0	-0.27	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 21:11	67002	STHI_T2	0	1	1	0	0.1	0.1	0.95	0.95	0	0	0	0	0	0
9/20/2024 21:11	67402	WAKE_T2	0	0	0	0	0	0	-0.28	-0.25	1	1	0	600	600	0
9/20/2024 21:11	66502	SMAN_T2	0	0	0	0	0	0	0.11	0.15	0	0	0	0	0	0
9/20/2024 21:11	50502	MECH_T1	62	112	50	0.23	0.26	0.03	-0.24	-0.24	1	1	0	900	900	0
9/20/2024 21:11	44801	EDAN_T2	127	164	37	0.33	0.46	0.13	-1.52	-1.52	0	0	0	0	0	0
9/20/2024 21:11	52002	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/20/2024 21:11	46004	BERW_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
9/20/2024 21:11	46206	DANV_T2	0	0	0	0	0	0	-0.04	-0.11	1	1	0	900	900	0
9/20/2024 21:11	67001	STHI_T2	1	64	63	0.4	0.11	-0.29	0	0	0	0	0	0	0	0
9/20/2024 21:11	63401	HONY_T1	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
9/20/2024 21:11	57401	SPAN_T1	2	2	0	0.15	0.75	0.6	-0.99	-1.04	2	2	0	1200	1200	0
9/20/2024 21:11	52006	LING_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
9/20/2024 21:11	14603	SWHI_T1	0	0	0	0	0	0	-0.68	-0.63	1	1	0	600	600	0
9/20/2024 21:11	45802	HEGI_T2	16	46	30	0.38	1.03	0.65	0	0	0	0	0	0	0	0
9/20/2024 21:11	67401	WAKE_T2	0	2	2	0	0.1	0.1	-0.9	-0.87	0	0	0	0	0	0
9/20/2024 21:11	57403	SPAN_T1	0	2	2	0	0.1	0.1	0.37	0.37	0	0	0	0	0	0
9/20/2024 21:12	14603	SWHI_T1	0	0	0	0	0	0	-0.68	-0.63	1	1	0	600	600	0
9/20/2024 21:12	55101	WERT_T1	0	0	0	0	0	0	-4.5	-4.7	8	8	0	6000	6000	0
9/20/2024 21:12	67201	TEHI_T1	0	0	0	0	0	0	-0.02	0.84	1	0	-1	900	0	-900
9/20/2024 21:12	45702	LIND_T2	1	5	4	0.7	0.28	-0.42	-0.43	-0.45	0	0	0	0	0	0
9/20/2024 21:12	44801	EDAN_T2	127	164	37	0.33	0.46	0.13	-1.52	-1.52	0	0	0	0	0	0
9/20/2024 21:12	44802	EDAN_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
9/20/2024 21:12	44301	BEAV_T2	0	0	0	0	0	0	-0.9	-0.84	1	1	0	600	600	0
9/20/2024 21:13	57403	SPAN_T1	0	2	2	0	0.1	0.1	0.18	0.18	0	0	0	0	0	0
9/20/2024 21:13	55002	NEWP_T1	6	6	0	0.9	0.97	0.07	-0.18	-0.21	0	0	0	0	0	0
9/20/2024 21:13	41902	REED_T1	0	1	1	0	6	6	1.1	1.12	0	0	0	0	0	0
9/20/2024 21:13	43302	WATS_T2	4	4	0	0.18	0.65	0.47	0	0	0	0	0	0	0	0
9/20/2024 21:13	50103	HARR_T3	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/20/2024 21:13	50107	HARR_T3	1	1	0	6.2	6.5	0.3	0	0	0	0	0	0	0	0
9/20/2024 21:13	41901	REED_T1	2	7	5	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
9/20/2024 21:13	60803	BUCK_T1	12	16	4	0.43	0.58	0.15	-1.11	-0.45	1	1	0	600	600	0
9/20/2024 21:13	64801	MONE_T2	1	2	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
9/20/2024 21:13	54201	PENN_T1	145	31	-114	0.41	0.55	0.14	-0.77	-0.79	0	0	0	0	0	0
9/20/2024 21:13	55101	WERT_T1	0	0	0	0	0	0	-1.12	-1.18	2	2	0	1500	1500	0
9/20/2024 21:13	50202	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/20/2024 21:13	60801	BUCK_T1	4	21	17	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/20/2024 21:13	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 21:13	44801	EDAN_T2	127	164	37	0.33	0.46	0.13	-1.52	-1.52	0	0	0	0	0	0
9/20/2024 21:13	64101	REFR_T1	9	0	-9	0.27	0	-0.27	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 21:13	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 21:13	21501	CEAV_T2	0	0	0	0	0	0	1.41	1.41	0	0	0	0	0	0
9/20/2024 21:13	44301	BEAV_T2	0	0	0	0	0	0	-0.9	-0.84	1	1	0	600	600	0
9/20/2024 21:13	61702	ELIZ_T2	0	0	0	0	0	0	-1.76	-1.77	2	2	0	1500	1500	0
9/20/2024 21:13	54205	PENN_T1	76	0	-76	0.28	0	-0.28	0	0	0	0	0	0	0	0
9/20/2024 21:13	54203	PENN_T1	83	18	-65	0.5	1.13	0.63	0	0	0	0	0	0	0	0
9/20/2024 21:13	50201	HARR_T3	1	1	0	1	0.3	-0.7	0	0	1	1	0	1200	1200	0
9/20/2024 21:13	45802	HEGI_T2	16	46	30	0.38	1.03	0.65	0.44	0.58	0	0	0	0	0	0
9/20/2024 21:13	64802	MONE_T2	0	1	1	0	0.1	0.1	0.18	0.13	0	0	0	0	0	0
9/20/2024 21:13	57401	SPAN_T1	2	2	0	0.15	0.75	0.6	-0.49	-0.52	1	1	0	600	600	0
9/20/2024 21:13	50105	HARR_T3	6	6	0	5.52	5.5	-0.02	0	0	0	0	0	0	0	0
9/20/2024 21:14	55002	NEWP_T1	6	6	0	0.9	0.97	0.07	-0.18	-0.21	0	0	0	0	0	0
9/20/2024 21:14	64101	REFR_T1	9	0	-9	0.27	0	-0.27	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 21:14	67602	WARW_T2	0	0	0	0	0	0	0.68	0.61	0	0	0	0	0	0
9/20/2024 21:14	46004	BERW_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
9/20/2024 21:14	65502	MOJO_T2	115	253	138	0.14	0.2	0.06	-1.47	-1.51	1	1	0	900	900	0
9/20/2024 21:14	44702	MUNC_T2	76	6	-70	0.33	0.13	-0.2	0	0	0	0	0	0	0	0
9/20/2024 21:14	44701	MUNC_T2	13	1	-12	0.21	0.3	0.09	0	0	0	0	0	0	0	0
9/20/2024 21:14	67001	STHI_T2	1	64	63	0.4	0.11	-0.29	0.33	0.31	0	0	0	0	0	0
9/20/2024 21:14	65503	MOJO_T2	9	36	27	0.1	0.13	0.03	0	0	0	0	0	0	0	0
9/20/2024 21:14	63501	HEID_TBK1-2	1	1	0	1.2	1.5	0.3	0.68	0.67	0	0	0	0	0	0
9/20/2024 21:14	45702	LIND_T2	1	5	4	0.7	0.28	-0.42	-0.43	-0.45	0	0	0	0	0	0
9/20/2024 21:14	44703	MUNC_T2	3	3	0	0.93	0.83	-0.1	0	0	0	0	0	0	0	0
9/20/2024 21:14	45802	HEGI_T2	16	46	30	0.38	1.03	0.65	0.44	0.58	0	0	0	0	0	0
9/20/2024 21:14	67002	STHI_T2	0	1	1	0	0.1	0.1	0.95	0.95	0	0	0	0	0	0
9/20/2024 21:15	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
9/20/2024 21:15	43302	WATS_T2	4	4	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
9/20/2024 21:15	44801	EDAN_T2	142	171	29	0.39	0.5	0.11	-1.52	-1.52	0	0	0	0	0	0
9/20/2024 21:15	57401	SPAN_T1	2	16	14	0.5	0.18	-0.32	-0.99	-1.04	2	2	0	1200	1200	0
9/20/2024 21:15	57403	SPAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 21:15	64203	KINZ_T1	1	33	32	0.1	0.18	0.08	-0.12	-0.16	1	1	0	600	600	0
9/20/2024 21:15	64202	KINZ_T1	7	14	7	0.23	0.34	0.11	0	0	0	0	0	0	0	0
9/20/2024 21:15	67605	WARW_T1	13	8	-5	0.38	0.24	-0.14	-0.93	-0.93	0	0	0	0	0	0
9/20/2024 21:15	64204	KINZ_T1	15	32	17	0.17	0.33	0.16	0	0	0	0	0	0	0	0
9/20/2024 21:15	65802	RTWN_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
9/20/2024 21:15	55101	WERT_T1	0	0	0	0	0	0	-1.12	-1.18	2	2	0	1500	1500	0
9/20/2024 21:15	63302	GREE_T1	0	0	0	0	0	0	-0.49	0.5	0	0	0	0	0	0
9/20/2024 21:15	67402	WAKE_T2	0	0	0	0	0	0	-0.28	-0.25	1	1	0	600	600	0
9/20/2024 21:15	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 21:15	67401	WAKE_T2	0	2	2	0	0.1	0.1	-0.9	-0.87	0	0	0	0	0	0
9/20/2024 21:15	63304	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/20/2024 21:15	64201	KINZ_T1	13	48	35	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
9/20/2024 21:15	67602	WARW_T2	0	0	0	0	0	0	0.68	0.61	0	0	0	0	0	0
9/20/2024 21:15	43304	WATS_T2	0	0	0	0	0	0	-1.11	-1.19	0	0	0	0	0	0
9/20/2024 21:16	44301	BEAV_T2	0	0	0	0	0	0	-0.9	-0.84	1	1	0	600	600	0
9/20/2024 21:16	63304	GREE_T1	0	1	1	0	0.1	0.1	-1.36	-1.36	0	0	0	0	0	0
9/20/2024 21:16	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 21:17	67602	WARW_T2	0	0	0	0	0	0	0.68	0.61	0	0	0	0	0	0
9/20/2024 21:17	41902	REED_T1	0	0	0	0	0	0	1.1	1.12	0	0	0	0	0	0
9/20/2024 21:17	41901	REED_T1	4	7	3	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
9/20/2024 21:18	50105	HARR_T3	6	6	0	5.5	5.62	0.12	0	0	0	0	0	0	0	0
9/20/2024 21:18	55105	WERT_T1	0	0	0	0	0	0	-0.15	-0.17	1	1	0	900	900	0
9/20/2024 21:18	50103	HARR_T3	2	2	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/20/2024 21:18	50107	HARR_T3	1	1	0	6.6	6.3	-0.3	0	0	0	0	0	0	0	0
9/20/2024 21:18	44801	EDAN_T2	142	171	29	0.39	0.5	0.11	0	0	0	0	0	0	0	0
9/20/2024 21:18	50202	HARR_T3	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/20/2024 21:18	44301	BEAV_T2	0	0	0	0	0	0	-0.9	-0.84	1	1	0	600	600	0
9/20/2024 21:18	44802	EDAN_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
9/20/2024 21:18	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 21:18	50201	HARR_T3	1	0	-1	0.3	0	-0.3	0	1	1	1	0	1200	1200	0
9/20/2024 21:19	43302	WATS_T2	4	4	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
9/20/2024 21:19	44301	BEAV_T2	0	0	0	0	0	0	-0.9	-0.84	1	1	0	600	600	0
9/20/2024 21:19	43304	WATS_T2	0	0	0	0	0	0	-0.56	-0.59	0	0	0	0	0	0
9/20/2024 21:20	46506	LOHA_T1	3	3	0	5.53	5.73	0.2	0	0	0	0	0	0	0	0
9/20/2024 21:20	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
9/20/2024 21:20	55101	WERT_T1	0	0	0	0	0	0	-1.12	-1.18	2	2	0	1500	1500	0
9/20/2024 21:20	46504	LOHA_T1	2	2	0	1.25	1.05	-0.2	0	0	0	0	0	0	0	0
9/20/2024 21:23	60801	BUCK_T1	21	3	-18	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/20/2024 21:23	60803	BUCK_T1	16	8	-8	0.58	0.19	-0.39	-0.45	-0.46	1	1	0	600	600	0
9/20/2024 21:24	16103	BING_T2	0	0	0	0	0	0	-1.12	-1.11	1	1	0	900	900	0
9/20/2024 21:25	20601	GRWO_T2	0	0	0	0	0	0	0.82	0.78	0	0	0	0	0	0
9/20/2024 21:25	20603	GRWO_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/20/2024 21:27	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/20/2024 21:31	50107	HARR_T3	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
9/20/2024 21:31	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/20/2024 21:31	50105	HARR_T3	6	6	0	5.62	5.77	0.15	0	0	0	0	0	0	0	0
9/20/2024 21:31	50202	HARR_T3	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/20/2024 21:31	50103	HARR_T3	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/20/2024 21:33	44701	MUNC_T2	1	11	10	0.3	0.16	-0.14	0	0	0	0	0	0	0	0
9/20/2024 21:33	44703	MUNC_T2	3	3	0	0.83	1	0.17	0.69	0.71	0	0	0	0	0	0
9/20/2024 21:33	14602	SWHI_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
9/20/2024 21:33	44702	MUNC_T2	6	17	11	0.13	0.18	0.05	0	0	0	0	0	0	0	0
9/20/2024 21:59	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2024 22:17	10801	CHHI_T1	0	1	1	0	0	0	-1.21	-1.22	2	2	0	1500	1500	0
9/20/2024 22:22	41202	KENM_T2	0	1	1	0	0.1	0.1	0.71	0.66	0	0	0	0	0	0
9/20/2024 22:31	50505	MECH_T1	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
9/20/2024 22:31	50501	MECH_T1	4	4	0	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
9/20/2024 22:31	50502	MECH_T1	1	1	0	2.7	2.6	-0.1	0	0	0	0	0	0	0	0
9/20/2024 23:05	50105	HARR_T3	6	6	0	6.2	5.92	-0.28	0	0	0	0	0	0	0	0
9/20/2024 23:05	50103	HARR_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/20/2024 23:05	50107	HARR_T3	1	1	0	7	6.7	-0.3	0	0	0	0	0	0	0	0
9/20/2024 23:05	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/21/2024 0:32	24902	WHHA_T1	1	1	0	0.2	0	-0.2	0.69	0.68	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/21/2024 3:06	67002	STHI_T2	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
9/21/2024 7:54	24902	WHHA_T1	2	5	3	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/21/2024 7:54	24901	WHHA_T1	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
9/21/2024 8:03	46602	LACR_T1	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
9/21/2024 8:27	20603	GRWO_T2	0	0	0	0	0	0	-0.64	-0.64	1	1	0	900	900	0
9/21/2024 8:29	20603	GRWO_T2	0	0	0	0	0	0	-0.64	-0.64	1	1	0	900	900	0
9/21/2024 8:44	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/21/2024 8:44	28703	HAML_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
9/21/2024 8:46	13503	MCMI_T2	0	67	67	0	0.17	0.17	-0.01	-0.97	0	0	0	0	0	0
9/21/2024 8:47	13503	MCMI_T2	0	67	67	0	0.17	0.17	-0.01	-0.97	0	0	0	0	0	0
9/21/2024 8:48	13503	MCMI_T2	0	67	67	0	0.17	0.17	-0.01	-0.97	0	0	0	0	0	0
9/21/2024 9:10	15203	SFAR_T2	0	0	0	0	0	0	-1.22	-1.16	0	0	0	0	0	0
9/21/2024 9:19	15203	SFAR_T2	0	0	0	0	0	0	-1.22	-1.16	0	0	0	0	0	0
9/21/2024 9:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 9:26	22001	BOHE_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
9/21/2024 9:26	22003	BOHE_T1	22	221	199	0.17	0.27	0.1	0	0	0	0	0	0	0	0
9/21/2024 9:28	22003	BOHE_T1	22	221	199	0.17	0.27	0.1	-0.19	-0.19	0	0	0	0	0	0
9/21/2024 9:29	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 9:29	63501	HEID_TBK1-2	1	1	0	0.8	1	0.2	-0.33	-0.28	1	1	0	900	900	0
9/21/2024 9:34	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 9:40	24902	WHHA_T1	7	16	9	0.94	0.78	-0.16	0.7	0.74	0	0	0	0	0	0
9/21/2024 9:41	24902	WHHA_T1	7	16	9	0.94	0.78	-0.16	0.7	0.74	0	0	0	0	0	0
9/21/2024 9:46	22601	KIMB_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/21/2024 9:46	22602	KIMB_T1	1	1	0	0.8	0.7	-0.1	0.35	0.34	0	0	0	0	0	0
9/21/2024 9:47	63801	HEMP_T1	0	0	0	0	0	0	-1.14	-1.09	1	1	0	900	900	0
9/21/2024 9:47	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
9/21/2024 9:49	55101	WERT_T1	0	0	0	0	0	0	-5.37	-5.31	4	4	0	3000	3000	0
9/21/2024 9:50	55101	WERT_T1	0	0	0	0	0	0	-2.69	-2.66	2	2	0	1500	1500	0
9/21/2024 9:51	55101	WERT_T1	0	0	0	0	0	0	-2.69	-2.66	2	2	0	1500	1500	0
9/21/2024 9:53	45901	AUBU_T1	0	0	0	0	0	0	0.98	1	0	0	0	0	0	0
9/21/2024 9:53	45902	AUBU_T1	14	11	-3	0.24	0.29	0.05	0	0	0	0	0	0	0	0
9/21/2024 9:54	64602	LEOL_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
9/21/2024 9:54	55101	WERT_T1	0	0	0	0	0	0	-2.66	-2.75	2	2	0	1500	1500	0
9/21/2024 9:55	45901	AUBU_T1	0	0	0	0	0	0	0.98	1	0	0	0	0	0	0
9/21/2024 9:55	45902	AUBU_T1	14	11	-3	0.24	0.29	0.05	-0.9	-0.86	1	1	0	600	600	0
9/21/2024 9:57	45902	AUBU_T1	14	11	-3	0.24	0.29	0.05	-0.9	-0.86	1	1	0	600	600	0
9/21/2024 10:00	67503	WEWI_T2	1	1	0	6.5	6.5	0	-0.22	-0.2	0	0	0	0	0	0
9/21/2024 10:00	59002	MIFF_T1	5	4	-1	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
9/21/2024 10:00	24902	WHHA_T1	15	8	-7	0.97	0.43	-0.54	0.74	0.73	0	0	0	0	0	0
9/21/2024 10:00	28102	TWLA_T2	15	19	4	0.47	0.48	0.01	0.22	0.22	0	0	0	0	0	0
9/21/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
9/21/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.55	0.61	0	0	0	0	0	0
9/21/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	0.25	0.29	0	0	0	0	0	0
9/21/2024 10:00	52403	GRPA_T2	0	0	0	0	0	0	-0.69	-0.66	0	0	0	0	0	0
9/21/2024 10:00	28805	LAKE_T1	0	0	0	0	0	0	-0.19	-0.18	0	0	0	0	0	0
9/21/2024 10:00	64602	LEOL_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
9/21/2024 10:02	58401	MORO_T1	0	0	0	0	0	0	-1.13	-1.12	1	1	0	600	600	0
9/21/2024 10:03	54506	ENOL_T2	0	0	0	0	0	0	0.76	0.71	1	1	0	600	600	0
9/21/2024 10:03	58401	MORO_T1	0	0	0	0	0	0	-1.13	-1.12	1	1	0	600	600	0
9/21/2024 10:08	15702	TANN_T2	0	0	0	0	0	0	-0.69	-0.66	0	0	0	0	0	0
9/21/2024 10:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 10:08	24902	WHHA_T1	15	8	-7	0.97	0.43	-0.54	0.73	0.72	0	0	0	0	0	0
9/21/2024 10:08	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
9/21/2024 10:09	15203	SFAR_T2	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
9/21/2024 10:11	45902	AUBU_T1	10	9	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
9/21/2024 10:11	45901	AUBU_T1	0	0	0	0	0	0	1	1.01	0	0	0	0	0	0
9/21/2024 10:12	20603	GRWO_T2	0	1	1	0	0	0	-0.64	-0.61	1	1	0	900	900	0
9/21/2024 10:13	45902	AUBU_T1	10	9	-1	0.25	0.3	0.05	-1.73	-1.74	2	2	0	1200	1200	0
9/21/2024 10:17	22602	KIMB_T1	1	1	0	0.6	0.5	-0.1	0.35	0.35	0	0	0	0	0	0
9/21/2024 10:17	22601	KIMB_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/21/2024 10:20	55101	WERT_T1	0	0	0	0	0	0	-8.26	-8.06	6	6	0	4500	4500	0
9/21/2024 10:23	55101	WERT_T1	0	0	0	0	0	0	-2.69	-2.61	2	2	0	1500	1500	0
9/21/2024 10:24	67203	TEHI_T1	0	0	0	0	0	0	1.05	1.06	1	1	0	900	900	0
9/21/2024 10:26	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 10:27	45501	DERR_T2	0	1	1	0	0	0	-0.2	-0.17	2	2	0	1800	1800	0
9/21/2024 10:28	45501	DERR_T2	0	1	1	0	0	0	-0.2	-0.17	2	2	0	1800	1800	0
9/21/2024 10:30	25402	LAHA_T2	0	0	0	0	0	0	-0.73	-0.59	0	0	0	0	0	0
9/21/2024 10:30	63501	HEID_TBK1-2	1	1	0	0.7	0.8	0.1	-0.41	-0.39	2	2	0	1800	1800	0
9/21/2024 10:30	45901	AUBU_T1	0	0	0	0	0	0	1.01	0.99	0	0	0	0	0	0
9/21/2024 10:30	45902	AUBU_T1	8	2	-6	0.24	0.45	0.21	0	0	0	0	0	0	0	0
9/21/2024 10:33	13302	ORVI_T2	0	0	0	0	0	0	1.64	1.63	0	0	0	0	0	0
9/21/2024 10:39	58102	NEKI_T1	0	1	1	0	0.2	0.2	0	0	1	1	0	1200	1200	0
9/21/2024 10:43	10801	CHHI_T1	0	0	0	0	0	0	-0.64	-0.64	1	1	0	900	900	0
9/21/2024 10:45	55405	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 11:00	16902	MECK_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
9/21/2024 11:02	16902	MECK_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
9/21/2024 11:04	16902	MECK_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
9/21/2024 11:05	42903	MIDD_T2	2	2	0	1.05	1.3	0.25	-0.16	-0.28	0	0	0	0	0	0
9/21/2024 11:07	44902	SCOT_T2	0	0	0	0	0	0	-2.05	-2.01	0	0	0	0	0	0
9/21/2024 11:08	66502	SMAN_T2	0	0	0	0	0	0	0.05	-0.06	0	0	0	0	0	0
9/21/2024 11:11	44801	EDAN_T2	55	73	18	0.27	0.28	0.01	-1.56	-1.55	0	0	0	0	0	0
9/21/2024 11:12	44801	EDAN_T2	55	73	18	0.27	0.28	0.01	-1.56	-1.55	0	0	0	0	0	0
9/21/2024 11:12	45802	HEGI_T2	9	5	-4	0.26	0	-0.26	0.55	0.63	0	0	0	0	0	0
9/21/2024 11:13	45802	HEGI_T2	9	5	-4	0.26	0	-0.26	0.55	0.63	0	0	0	0	0	0
9/21/2024 11:14	26704	HEML_T2	0	0	0	0	0	0	-0.74	-0.75	1	1	0	1200	1200	0
9/21/2024 11:20	16505	STRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 11:21	16505	STRO_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
9/21/2024 11:25	44301	BEAV_T2	0	0	0	0	0	0	-0.88	-0.86	1	1	0	600	600	0
9/21/2024 11:27	44301	BEAV_T2	0	0	0	0	0	0	-0.88	-0.86	1	1	0	600	600	0
9/21/2024 11:34	41902	REED_T1	0	6	6	0	0.43	0.43	0.89	0.93	0	0	0	0	0	0
9/21/2024 11:36	55101	WERT_T1	0	0	0	0	0	0	-2.56	-2.63	2	2	0	1500	1500	0
9/21/2024 11:38	41902	REED_T1	0	6	6	0	0.43	0.43	0.93	0.92	0	0	0	0	0	0
9/21/2024 11:42	60801	BUCK_T1	0	0	0	0	0	0	-0.81	-0.78	1	1	0	600	600	0
9/21/2024 11:46	23404	HONE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 11:46	23403	HONE_T1	0	0	0	0	0	0	-0.64	-0.6	0	0	0	0	0	0
9/21/2024 11:47	50105	HARR_T3	6	6	0	6.62	6.67	0.05	0	0	0	0	0	0	0	0
9/21/2024 11:47	50107	HARR_T3	1	1	0	7.7	7.9	0.2	0	0	0	0	0	0	0	0
9/21/2024 11:49	52001	LING_T1	0	27	27	0	0	0	-0.89	-0.9	0	0	0	0	0	0
9/21/2024 11:49	55101	WERT_T1	0	0	0	0	0	0	-5.26	-5.09	4	4	0	3000	3000	0
9/21/2024 11:50	65205	PRIN_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
9/21/2024 11:56	13702	SCHN_T1	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
9/21/2024 12:06	66504	SMAN_T2	0	0	0	0	0	0	-2.8	-2.58	2	2	0	2400	2400	0
9/21/2024 12:09	66504	SMAN_T2	0	0	0	0	0	0	-1.29	-1.31	1	1	0	1200	1200	0
9/21/2024 12:12	10801	CHHI_T1	4	3	-1	0.78	1	0.22	-1.14	-1.1	2	2	0	1500	1500	0
9/21/2024 12:13	10805	CHHI_T2	1	1	0	8.3	8.2	-0.1	-0.81	-0.78	0	0	0	0	0	0
9/21/2024 12:14	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/21/2024 12:18	64204	KINZ_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/21/2024 12:18	61306	EARL_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
9/21/2024 12:18	64203	KINZ_T1	0	0	0	0	0	0	-0.73	-0.7	2	2	0	900	900	0
9/21/2024 12:23	44301	BEAV_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/21/2024 12:23	44302	BEAV_T2	3	5	2	0.27	0.34	0.07	0	0	0	0	0	0	0	0
9/21/2024 12:24	16102	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/21/2024 12:24	16103	BING_T2	0	0	0	0	0	0	-1.2	-1.12	1	1	0	900	900	0
9/21/2024 12:25	44801	EDAN_T2	36	19	-17	0.32	0.38	0.06	0	0	0	0	0	0	0	0
9/21/2024 12:25	44802	EDAN_T2	0	0	0	0	0	0	-1.82	-1.86	0	0	0	0	0	0
9/21/2024 12:26	44802	EDAN_T2	0	0	0	0	0	0	-5.46	-5.58	0	0	0	0	0	0
9/21/2024 12:26	44801	EDAN_T2	36	19	-17	0.32	0.38	0.06	0	0	0	0	0	0	0	0
9/21/2024 12:27	44801	EDAN_T2	36	19	-17	0.32	0.38	0.06	0	0	0	0	0	0	0	0
9/21/2024 12:27	44802	EDAN_T2	0	0	0	0	0	0	-1.82	-1.86	0	0	0	0	0	0
9/21/2024 12:28	44801	EDAN_T2	36	19	-17	0.32	0.38	0.06	0	0	0	0	0	0	0	0
9/21/2024 12:28	44802	EDAN_T2	0	0	0	0	0	0	-1.82	-1.86	0	0	0	0	0	0
9/21/2024 12:30	47901	HRDG_T1	0	0	0	0	0	0	0.3	0.14	1	1	0	1200	1200	0
9/21/2024 12:31	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 12:32	63501	HEID_TBK1-2	1	1	0	0.9	0.7	-0.2	-0.14	-0.11	1	1	0	900	900	0
9/21/2024 12:35	27605	PIRI_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
9/21/2024 12:35	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
9/21/2024 12:35	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 12:35	15702	TANN_T2	0	0	0	0	0	0	-0.26	-0.23	0	0	0	0	0	0
9/21/2024 12:38	41902	REED_T1	4	2	-2	0.38	0	-0.38	1.03	0.96	0	0	0	0	0	0
9/21/2024 12:40	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
9/21/2024 12:40	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/21/2024 12:40	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.33	0	0	0	0	0	0
9/21/2024 12:44	44801	EDAN_T2	15	20	5	0.37	0.59	0.22	-1.46	-1.46	0	0	0	0	0	0
9/21/2024 12:46	44801	EDAN_T2	16	18	2	0.4	0.51	0.11	-2.92	-2.92	0	0	0	0	0	0
9/21/2024 12:47	64101	REFR_T1	8	13	5	0.39	0.5	0.11	-0.01	-0.01	0	0	0	0	0	0
9/21/2024 12:48	64101	REFR_T1	8	13	5	0.39	0.5	0.11	-0.01	-0.01	0	0	0	0	0	0
9/21/2024 12:48	40201	BEGA_T2	148	0	-148	1.15	0	-1.15	0	0	0	0	0	0	0	0
9/21/2024 12:49	64101	REFR_T1	8	13	5	0.39	0.5	0.11	-0.01	-0.01	0	0	0	0	0	0
9/21/2024 12:51	64101	REFR_T1	8	13	5	0.39	0.5	0.11	-0.01	-0.01	0	0	0	0	0	0
9/21/2024 12:52	64101	REFR_T1	8	13	5	0.39	0.5	0.11	-0.01	-0.01	0	0	0	0	0	0
9/21/2024 12:55	44801	EDAN_T2	16	18	2	0.4	0.51	0.11	-1.46	-1.48	0	0	0	0	0	0
9/21/2024 12:56	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/21/2024 12:58	51502	SWAT_T1	1	1	0	0.1	0.2	0.1	0.08	0.05	0	0	0	0	0	0
9/21/2024 12:58	44802	EDAN_T2	0	0	0	0	0	0	-1.8	-1.74	0	0	0	0	0	0
9/21/2024 12:58	44801	EDAN_T2	16	18	2	0.4	0.51	0.11	0	0	0	0	0	0	0	0
9/21/2024 12:59	45902	AUBU_T1	5	11	6	0.26	0.25	-0.01	-0.86	-0.87	1	1	0	600	600	0
9/21/2024 13:00	64101	REFR_T1	5	22	17	0.22	0.38	0.16	-0.01	-0.01	0	0	0	0	0	0
9/21/2024 13:01	61303	EARL_T1	0	0	0	0	0	0	-0.08	-0.72	0	0	0	0	0	0
9/21/2024 13:10	16102	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/21/2024 13:10	16103	BING_T2	0	1	1	0	0.2	0.2	-1.16	-1.1	1	1	0	900	900	0
9/21/2024 13:10	24902	WHHA_T1	14	13	-1	0.61	0.58	-0.03	0.79	0.78	0	0	0	0	0	0
9/21/2024 13:10	16101	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/21/2024 13:12	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/21/2024 13:20	58401	MORO_T1	0	0	0	0	0	0	-0.95	-0.98	1	1	0	600	600	0
9/21/2024 13:21	55101	WERT_T1	0	0	0	0	0	0	-2.3	-2.33	2	2	0	1500	1500	0
9/21/2024 13:22	55101	WERT_T1	0	0	0	0	0	0	-2.33	-2.81	2	2	0	1500	1500	0
9/21/2024 13:23	55101	WERT_T1	0	0	0	0	0	0	-2.33	-2.81	2	2	0	1500	1500	0
9/21/2024 13:25	58401	MORO_T1	0	0	0	0	0	0	-0.98	-0.9	1	1	0	600	600	0
9/21/2024 13:26	45902	AUBU_T1	10	20	10	0.23	0.52	0.29	-0.86	-0.91	1	1	0	600	600	0
9/21/2024 13:28	22905	HARW_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/21/2024 13:28	22903	HARW_T1	21	21	0	1.32	0.96	-0.36	0	0	0	0	0	0	0	0
9/21/2024 13:28	22901	HARW_T1	0	0	0	0	0	0	-0.44	-0.46	1	1	0	1200	1200	0
9/21/2024 13:32	13503	MCMI_T2	1	2	1	0.5	0.8	0.3	-0.01	-0.87	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/21/2024 13:35	13503	MCMI_T2	1	2	1	0.5	0.8	0.3	-0.01	-0.87	0	0	0	0	0	0
9/21/2024 13:36	13503	MCMI_T2	1	2	1	0.5	0.8	0.3	-0.87	-0.01	0	0	0	0	0	0
9/21/2024 13:37	14705	TREX_T1	1	0	-1	0.1	0	-0.1	0.1	0.14	0	0	0	0	0	0
9/21/2024 13:37	14704	TREX_T1	1	1	0	3.1	1.7	-1.4	0	0	0	0	0	0	0	0
9/21/2024 13:48	44801	EDAN_T2	9	9	0	0.43	0.73	0.3	-1.43	-1.43	0	0	0	0	0	0
9/21/2024 13:51	66703	STRA_T1	0	0	0	0	0	0	0.3	0.36	0	0	0	0	0	0
9/21/2024 13:52	64101	REFR_T1	1	7	6	0.6	0.38	-0.22	-0.01	-0.01	0	0	0	0	0	0
9/21/2024 13:52	24902	WHHA_T1	10	6	-4	0.5	0	-0.5	0.63	0.18	0	0	0	0	0	0
9/21/2024 13:55	66505	SMAN_T2	0	1	1	0	0	0	0.13	0.2	3	3	0	2100	2100	0
9/21/2024 13:55	66703	STRA_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
9/21/2024 13:56	21501	CEAV_T2	0	0	0	0	0	0	1.02	1.12	1	1	0	1200	1200	0
9/21/2024 14:02	22003	BOHE_T1	223	236	13	0.34	0.42	0.08	0	0	0	0	0	0	0	0
9/21/2024 14:02	22001	BOHE_T1	1	2	1	0.1	0.15	0.05	0.31	0.32	0	0	0	0	0	0
9/21/2024 14:23	51101	CARL_T1	1	1	0	7.5	7.6	0.1	0	0	0	0	0	0	0	0
9/21/2024 14:23	51102	CARL_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/21/2024 14:23	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 14:24	46301	ROHR_T1	3	2	-1	1.23	2.6	1.37	0.24	0.26	0	0	0	0	0	0
9/21/2024 14:24	46302	ROHR_T1	4	3	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
9/21/2024 14:34	55105	WERT_T1	0	0	0	0	0	0	-0.14	-0.12	1	1	0	900	900	0
9/21/2024 14:35	47802	MOCA_T2	0	0	0	0	0	0	-0.69	-0.66	0	0	0	0	0	0
9/21/2024 14:43	61001	DONV_T1	0	1	1	0	0.3	0.3	0.07	0.09	0	0	0	0	0	0
9/21/2024 14:45	59301	MCAL_T1	2	2	0	0.5	0.3	-0.2	-1.66	-1.64	1	1	0	600	600	0
9/21/2024 14:45	21206	ECAR_T2	1	1	0	6.2	6.4	0.2	0	0	0	0	0	0	0	0
9/21/2024 14:45	21204	ECAR_T2	1	1	0	0	0	0	-0.64	-0.61	0	0	0	0	0	0
9/21/2024 14:49	64101	REFR_T1	3	3	0	0.27	0.15	-0.12	-0.01	-0.01	0	0	0	0	0	0
9/21/2024 14:49	41902	REED_T1	2	2	0	0.15	0.1	-0.05	1.02	1.04	0	0	0	0	0	0
9/21/2024 14:53	44904	SCOT_T1	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
9/21/2024 14:53	44905	SCOT_T1	5	17	12	2.08	1.15	-0.93	0	0	0	0	0	0	0	0
9/21/2024 15:01	63401	HONY_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
9/21/2024 15:04	63201	MGTN_T2	0	0	0	0	0	0	1.4	1.4	1	1	0	1200	1200	0
9/21/2024 15:05	61303	EARL_T1	0	0	0	0	0	0	-1.14	-1.06	0	0	0	0	0	0
9/21/2024 15:06	61303	EARL_T1	0	0	0	0	0	0	-1.14	-1.06	0	0	0	0	0	0
9/21/2024 15:07	58701	ROSE_T2	0	0	0	0	0	0	-1.21	-1.22	1	1	0	600	600	0
9/21/2024 15:07	58706	ROSE_T2	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
9/21/2024 15:07	61303	EARL_T1	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
9/21/2024 15:07	58705	ROSE_T2	5	5	0	0.92	1.32	0.4	0	0	0	0	0	0	0	0
9/21/2024 15:12	44801	EDAN_T2	3	5	2	0.47	0.4	-0.07	-1.41	-1.4	0	0	0	0	0	0
9/21/2024 15:16	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 15:18	60502	NMAN_T2	13	19	6	0.14	0.25	0.11	0	0	0	0	0	0	0	0
9/21/2024 15:19	60502	NMAN_T2	13	19	6	0.14	0.25	0.11	-0.66	-0.58	0	0	0	0	0	0
9/21/2024 15:20	60502	NMAN_T2	13	19	6	0.14	0.25	0.11	-0.66	-0.58	0	0	0	0	0	0
9/21/2024 15:20	13503	MCMI_T2	19	32	13	0.38	0.26	-0.12	-0.82	-0.83	0	0	0	0	0	0
9/21/2024 15:21	13503	MCMI_T2	19	32	13	0.38	0.26	-0.12	-0.83	-0.83	0	0	0	0	0	0
9/21/2024 15:22	44901	SCOT_T2	0	0	0	0	0	0	-0.08	-0.02	0	0	0	0	0	0
9/21/2024 15:28	22003	BOHE_T1	207	212	5	0.32	0.29	-0.03	0	0	0	0	0	0	0	0
9/21/2024 15:28	22002	BOHE_T1	0	0	0	0	0	0	0.56	0.51	0	0	0	0	0	0
9/21/2024 15:36	64101	REFR_T1	6	18	12	0.4	0.5	0.1	-0.01	-0.01	0	0	0	0	0	0
9/21/2024 15:52	44905	SCOT_T1	14	25	11	1.04	0.78	-0.26	0	0	0	0	0	0	0	0
9/21/2024 15:52	44904	SCOT_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 15:53	43304	WATS_T2	0	0	0	0	0	0	-1.7	-1.78	0	0	0	0	0	0
9/21/2024 15:54	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 15:57	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 16:02	52002	LING_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/21/2024 16:02	52004	LING_T2	3	3	0	2.43	2.53	0.1	0	0	0	0	0	0	0	0
9/21/2024 16:24	20401	ASHF_T2	4	1	-3	1.28	0	-1.28	0	0	0	0	0	0	0	0
9/21/2024 16:24	20403	ASHF_T2	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
9/21/2024 16:24	43304	WATS_T2	0	0	0	0	0	0	-0.87	-0.81	0	0	0	0	0	0
9/21/2024 16:46	40101	HUNT_T2	15	6	-9	0.5	0	-0.5	-0.52	-0.58	0	0	0	0	0	0
9/21/2024 16:46	52004	LING_T2	3	3	0	2.57	2.7	0.13	0	0.06	0	0	0	0	0	0
9/21/2024 16:57	66703	STRA_T1	1	0	-1	0.1	0	-0.1	-0.29	-0.43	0	0	0	0	0	0
9/21/2024 16:58	62104	ELAN_T1	0	0	0	0	0	0	0.01	0.26	2	1	-1	1500	1200	-300
9/21/2024 16:59	62104	ELAN_T1	0	0	0	0	0	0	0.02	0.52	4	2	-2	3000	2400	-600
9/21/2024 17:20	41902	REED_T1	4	4	0	0.7	0.37	-0.33	1.1	1.06	0	0	0	0	0	0
9/21/2024 17:21	24902	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 17:21	24901	WHHA_T1	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
9/21/2024 17:22	41902	REED_T1	4	4	0	0.7	0.37	-0.33	1.06	1.07	0	0	0	0	0	0
9/21/2024 17:23	41902	REED_T1	4	4	0	0.7	0.37	-0.33	2.13	2.14	0	0	0	0	0	0
9/21/2024 17:29	61703	ELIZ_T1	1	0	-1	0.1	0	-0.1	-0.97	-1.17	2	2	0	2100	2100	0
9/21/2024 17:29	61701	ELIZ_T1	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
9/21/2024 17:32	63501	HEID_TBK1-2	0	0	0	0	0	0	0.11	0.15	1	1	0	900	900	0
9/21/2024 17:59	67605	WARW_T1	2	3	1	1.3	0.63	-0.67	0	0	0	0	0	0	0	0
9/21/2024 17:59	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 20:07	64602	LEOL_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
9/21/2024 20:09	15203	SFAR_T2	0	0	0	0	0	0	-0.82	-0.91	0	0	0	0	0	0
9/21/2024 20:12	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 20:31	22602	KIMB_T1	1	1	0	0.1	0.2	0.1	0.36	0.35	0	0	0	0	0	0
9/21/2024 20:45	62104	ELAN_T1	0	0	0	0	0	0	-0.04	-0.02	1	1	0	1200	1200	0
9/21/2024 20:46	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 20:48	61303	EARL_T1	0	0	0	0	0	0	-0.06	-0.13	0	0	0	0	0	0
9/21/2024 20:50	44902	SCOT_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
9/21/2024 20:51	26704	HEML_T2	1	23	22	0.1	0.11	0.01	-0.79	-0.8	1	1	0	1200	1200	0
9/21/2024 20:52	61303	EARL_T1	0	0	0	0	0	0	-0.13	-0.1	0	0	0	0	0	0
9/21/2024 20:53	13302	ORVI_T2	0	0	0	0	0	0	0.19	1.52	0	0	0	0	0	0
9/21/2024 20:53	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 20:53	66703	STRA_T1	0	0	0	0	0	0	-0.74	-0.79	0	0	0	0	0	0
9/21/2024 20:53	24902	WHHA_T1	2	1	-1	0.3	0.1	-0.2	0.19	0.17	0	0	0	0	0	0
9/21/2024 20:54	44801	EDAN_T2	79	111	32	0.21	0.3	0.09	0	0	0	0	0	0	0	0
9/21/2024 20:54	44802	EDAN_T2	0	0	0	0	0	0	-1.88	-1.93	0	0	0	0	0	0
9/21/2024 20:54	67203	TEHI_T1	0	0	0	0	0	0	1.2	1.16	1	1	0	900	900	0
9/21/2024 20:55	44801	EDAN_T2	79	111	32	0.21	0.3	0.09	0	0	0	0	0	0	0	0
9/21/2024 20:55	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 20:55	44802	EDAN_T2	0	0	0	0	0	0	-3.76	-3.86	0	0	0	0	0	0
9/21/2024 20:56	66703	STRA_T1	0	0	0	0	0	0	-0.74	-0.79	0	0	0	0	0	0
9/21/2024 20:57	64202	KINZ_T1	3	3	0	0.57	0.8	0.23	0	0	0	0	0	0	0	0
9/21/2024 20:57	64201	KINZ_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
9/21/2024 20:57	45902	AUBU_T1	38	259	221	0.27	0.36	0.09	-1.09	-1.12	1	1	0	600	600	0
9/21/2024 20:57	45901	AUBU_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/21/2024 20:57	64203	KINZ_T1	0	0	0	0	0	0	-0.36	-0.39	1	1	0	600	600	0
9/21/2024 20:57	64204	KINZ_T1	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
9/21/2024 20:57	24902	WHHA_T1	2	1	-1	0.3	0.1	-0.2	0.19	0.17	0	0	0	0	0	0
9/21/2024 20:58	15703	TANN_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
9/21/2024 20:58	22002	BOHE_T1	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
9/21/2024 20:58	22003	BOHE_T1	217	236	19	0.35	0.44	0.09	0	0	0	0	0	0	0	0
9/21/2024 20:58	61303	EARL_T1	0	0	0	0	0	0	-0.13	-0.1	0	0	0	0	0	0
9/21/2024 20:58	15702	TANN_T2	0	0	0	0	0	0	-0.23	-0.33	0	0	0	0	0	0
9/21/2024 20:58	63404	HONY_T1	3	7	4	0.1	0.1	0	0	0	0	0	0	0	0	0
9/21/2024 20:58	22001	BOHE_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
9/21/2024 20:58	63401	HONY_T1	0	0	0	0	0	0	0.64	0.58	0	0	0	0	0	0
9/21/2024 20:58	45501	DERR_T2	0	0	0	0	0	0	-0.72	-0.75	2	2	0	1800	1800	0
9/21/2024 20:59	55405	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 20:59	45902	AUBU_T1	38	259	221	0.27	0.36	0.09	-1.09	-1.12	1	1	0	600	600	0
9/21/2024 20:59	61303	EARL_T1	0	0	0	0	0	0	-0.13	-0.1	0	0	0	0	0	0
9/21/2024 20:59	46302	ROHR_T1	4	4	0	0.4	0.78	0.38	0	0	0	0	0	0	0	0
9/21/2024 20:59	47802	MOCA_T2	0	0	0	0	0	0	-0.76	-0.74	0	0	0	0	0	0
9/21/2024 20:59	45901	AUBU_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/21/2024 20:59	62104	ELAN_T1	0	0	0	0	0	0	-0.02	-0.03	1	1	0	1200	1200	0
9/21/2024 20:59	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 20:59	46301	ROHR_T1	1	1	0	5.3	5.8	0.5	-0.7	-0.69	0	0	0	0	0	0
9/21/2024 21:00	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 21:00	66703	STRA_T1	0	0	0	0	0	0	-0.74	-0.79	0	0	0	0	0	0
9/21/2024 21:00	55101	WERT_T1	0	0	0	0	0	0	-2.94	-3.02	2	2	0	1500	1500	0
9/21/2024 21:00	22001	BOHE_T1	0	9	9	0	0.11	0.11	0.32	0.3	0	0	0	0	0	0
9/21/2024 21:00	22901	HARW_T1	0	0	0	0	0	0	-0.76	-0.67	1	1	0	1200	1200	0
9/21/2024 21:00	22903	HARW_T1	13	11	-2	0.43	1.1	0.67	0	0	0	0	0	0	0	0
9/21/2024 21:00	22003	BOHE_T1	228	251	23	0.44	0.45	0.01	0	0	0	0	0	0	0	0
9/21/2024 21:01	62104	ELAN_T1	0	0	0	0	0	0	-0.02	-0.03	1	1	0	1200	1200	0
9/21/2024 21:01	45501	DERR_T2	0	0	0	0	0	0	-0.72	-0.75	2	2	0	1800	1800	0
9/21/2024 21:02	50107	HARR_T3	1	1	0	6.6	7	0.4	0	0	0	0	0	0	0	0
9/21/2024 21:02	24901	WHHA_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
9/21/2024 21:02	50201	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/21/2024 21:02	24902	WHHA_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/21/2024 21:02	50105	HARR_T3	6	6	0	5.4	5.42	0.02	0	0	0	0	0	0	0	0
9/21/2024 21:02	45901	AUBU_T1	0	7	7	0	0.13	0.13	1.03	1.05	0	0	0	0	0	0
9/21/2024 21:02	45902	AUBU_T1	152	299	147	0.24	0.38	0.14	0	0	0	0	0	0	0	0
9/21/2024 21:03	59301	MCAL_T1	2	2	0	0.8	1.15	0.35	-1.86	-1.83	1	1	0	600	600	0
9/21/2024 21:03	41902	REED_T1	0	0	0	0	0	0	0.96	0.93	0	0	0	0	0	0
9/21/2024 21:03	23403	HONE_T1	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
9/21/2024 21:03	16902	MECK_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
9/21/2024 21:03	58701	ROSE_T2	0	0	0	0	0	0	-1.28	-1.31	1	1	0	600	600	0
9/21/2024 21:03	58706	ROSE_T2	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
9/21/2024 21:03	52004	LING_T2	2	2	0	4.55	4.65	0.1	0.04	0.04	0	0	0	0	0	0
9/21/2024 21:03	58705	ROSE_T2	5	5	0	2.02	2.24	0.22	0	0	0	0	0	0	0	0
9/21/2024 21:04	45901	AUBU_T1	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
9/21/2024 21:04	16102	BING_T2	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/21/2024 21:04	41902	REED_T1	0	0	0	0	0	0	0.96	0.93	0	0	0	0	0	0
9/21/2024 21:04	44801	EDAN_T2	70	120	50	0.27	0.3	0.03	-1.49	-1.52	0	0	0	0	0	0
9/21/2024 21:04	60801	BUCK_T1	0	0	0	0	0	0	-0.8	-0.81	1	1	0	600	600	0
9/21/2024 21:04	45902	AUBU_T1	152	299	147	0.24	0.38	0.14	-1.09	-1.12	1	1	0	600	600	0
9/21/2024 21:04	16902	MECK_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
9/21/2024 21:04	16103	BING_T2	0	0	0	0	0	0	-1.24	-1.17	1	1	0	900	900	0
9/21/2024 21:05	44801	EDAN_T2	70	120	50	0.27	0.3	0.03	-1.49	-1.52	0	0	0	0	0	0
9/21/2024 21:05	47901	HRDG_T1	0	0	0	0	0	0	0.18	0.32	1	1	0	1200	1200	0
9/21/2024 21:05	44802	EDAN_T2	0	0	0	0	0	0	-1.88	-1.93	0	0	0	0	0	0
9/21/2024 21:06	52004	LING_T2	2	2	0	4.55	4.65	0.1	0.04	0.04	0	0	0	0	0	0
9/21/2024 21:06	44801	EDAN_T2	70	120	50	0.27	0.3	0.03	-1.52	-1.5	0	0	0	0	0	0
9/21/2024 21:06	25402	LAHA_T2	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
9/21/2024 21:06	67605	WARW_T1	1	3	2	0.3	0.47	0.17	0	0	0	0	0	0	0	0
9/21/2024 21:06	16902	MECK_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
9/21/2024 21:06	25404	LAHA_T2	57	41	-16	0.11	0.12	0.01	0	0	0	0	0	0	0	0
9/21/2024 21:06	13702	SCHN_T1	0	0	0	0	0	0	0.7	0.71	0	0	0	0	0	0
9/21/2024 21:06	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 21:07	61001	DONV_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
9/21/2024 21:07	20403	ASHF_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/21/2024 21:07	63501	HEID_TBK1-2	1	1	0	0.2	1.7	1.5	-0.21	-0.24	1	1	0	900	900	0
9/21/2024 21:07	51503	SWAT_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/21/2024 21:07	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/21/2024 21:07	66504	SMAN_T2	0	0	0	0	0	0	-2.62	-2.85	2	2	0	2400	2400	0
9/21/2024 21:07	10801	CHHI_T1	0	0	0	0	0	0	-1.2	-1.25	2	2	0	1500	1500	0
9/21/2024 21:07	43304	WATS_T2	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
9/21/2024 21:07	51502	SWAT_T1	0	0	0	0	0	0	-0.06	-0.01	0	0	0	0	0	0
9/21/2024 21:08	43304	WATS_T2	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
9/21/2024 21:08	41902	REED_T1	0	0	0	0	0	0	0.93	0.92	0	0	0	0	0	0
9/21/2024 21:08	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/21/2024 21:08	15703	TANN_T2	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
9/21/2024 21:08	16505	STRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 21:08	10805	CHHI_T2	1	1	0	7.4	6.7	-0.7	-0.98	-1.18	1	1	0	600	600	0
9/21/2024 21:08	15702	TANN_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
9/21/2024 21:08	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 21:09	66502	SMAN_T2	0	0	0	0	0	0	-0.15	-0.13	0	0	0	0	0	0
9/21/2024 21:09	51101	CARL_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
9/21/2024 21:09	15703	TANN_T2	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
9/21/2024 21:09	60502	NMAN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/21/2024 21:09	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/21/2024 21:09	15702	TANN_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
9/21/2024 21:09	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 21:10	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 21:10	44802	EDAN_T2	0	0	0	0	0	0	-1.93	-1.93	0	0	0	0	0	0
9/21/2024 21:10	20603	GRWO_T2	0	0	0	0	0	0	-0.56	-0.57	1	1	0	900	900	0
9/21/2024 21:10	44801	EDAN_T2	70	120	50	0.27	0.3	0.03	0	0	0	0	0	0	0	0
9/21/2024 21:10	63501	HEID_TBK1-2	1	1	0	0.2	1.7	1.5	-0.21	-0.24	1	1	0	900	900	0
9/21/2024 21:10	65205	PRIN_T1	1	4	3	2	0.6	-1.4	0	0	0	0	0	0	0	0
9/21/2024 21:10	55101	WERT_T1	0	0	0	0	0	0	-3.02	-3.02	2	2	0	1500	1500	0
9/21/2024 21:10	66504	SMAN_T2	0	0	0	0	0	0	-1.31	-1.42	1	1	0	1200	1200	0
9/21/2024 21:11	44802	EDAN_T2	0	0	0	0	0	0	-1.93	-1.93	0	0	0	0	0	0
9/21/2024 21:11	60502	NMAN_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/21/2024 21:11	45802	HEGI_T2	48	48	0	2.59	2.76	0.17	-0.1	-0.14	0	0	0	0	0	0
9/21/2024 21:11	55101	WERT_T1	0	0	0	0	0	0	-3.02	-3.02	2	2	0	1500	1500	0
9/21/2024 21:11	63501	HEID_TBK1-2	1	1	0	0.2	1.7	1.5	-0.21	-0.24	1	1	0	900	900	0
9/21/2024 21:11	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/21/2024 21:11	44801	EDAN_T2	70	120	50	0.27	0.3	0.03	0	0	0	0	0	0	0	0
9/21/2024 21:11	41902	REED_T1	0	0	0	0	0	0	0.93	0.92	0	0	0	0	0	0
9/21/2024 21:12	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 21:12	66505	SMAN_T2	0	0	0	0	0	0	0.2	0.3	2	2	0	1500	1500	0
9/21/2024 21:12	10801	CHHI_T1	0	0	0	0	0	0	-1.2	-1.25	2	2	0	1500	1500	0
9/21/2024 21:13	43304	WATS_T2	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
9/21/2024 21:13	55101	WERT_T1	0	0	0	0	0	0	-9.05	-9.07	6	6	0	4500	4500	0
9/21/2024 21:13	40101	HUNT_T2	0	0	0	0	0	0	-1.2	-1.19	0	0	0	0	0	0
9/21/2024 21:13	44301	BEAV_T2	0	2	2	0	0.15	0.15	-1.02	-1.04	1	1	0	600	600	0
9/21/2024 21:13	64101	REFR_T1	6	1	-5	0.3	0	-0.3	-0.02	-0.02	0	0	0	0	0	0
9/21/2024 21:14	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 21:14	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 21:14	58401	MORO_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	600	600	0
9/21/2024 21:14	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 21:14	42903	MIDD_T2	2	2	0	0.8	1	0.2	-0.19	-0.17	0	0	0	0	0	0
9/21/2024 21:15	55101	WERT_T1	0	0	0	0	0	0	-6.04	-6.05	4	4	0	3000	3000	0
9/21/2024 21:15	58102	NEKI_T1	0	1	1	0	0.3	0.3	0	0	1	1	0	1200	1200	0
9/21/2024 21:15	55105	WERT_T1	0	0	0	0	0	0	-0.22	-0.25	1	1	0	900	900	0
9/21/2024 21:16	41902	REED_T1	0	0	0	0	0	0	0.93	0.92	0	0	0	0	0	0
9/21/2024 21:16	64101	REFR_T1	1	0	-1	0.5	0	-0.5	-0.01	-0.01	0	0	0	0	0	0
9/21/2024 21:16	55101	WERT_T1	0	0	0	0	0	0	-6.04	-6.05	4	4	0	3000	3000	0
9/21/2024 21:17	21501	CEAV_T2	0	0	0	0	0	0	0.21	1.48	1	0	-1	1200	0	-1200
9/21/2024 21:17	64101	REFR_T1	1	0	-1	0.5	0	-0.5	-0.02	-0.02	0	0	0	0	0	0
9/21/2024 21:17	63501	HEID_TBK1-2	1	1	0	0.9	1.7	0.8	-0.21	-0.24	1	1	0	900	900	0
9/21/2024 21:17	41902	REED_T1	0	0	0	0	0	0	0.93	0.92	0	0	0	0	0	0
9/21/2024 21:17	58401	MORO_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	600	600	0
9/21/2024 21:17	21502	CEAV_T2	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
9/21/2024 21:18	58401	MORO_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	600	600	0
9/21/2024 21:18	64101	REFR_T1	1	0	-1	0.5	0	-0.5	-0.01	-0.01	0	0	0	0	0	0
9/21/2024 21:20	44301	BEAV_T2	0	2	2	0	0.15	0.15	-1.02	-1.04	1	1	0	600	600	0
9/21/2024 21:20	58401	MORO_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	600	600	0
9/21/2024 21:21	44301	BEAV_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/21/2024 21:55	45902	AUBU_T1	179	24	-155	0.25	0.28	0.03	-0.65	-0.64	0	0	0	0	0	0
9/21/2024 21:55	45901	AUBU_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
9/21/2024 22:10	45901	AUBU_T1	0	0	0	0	0	0	1.07	1	0	0	0	0	0	0
9/21/2024 22:10	45902	AUBU_T1	24	25	1	0.28	0.33	0.05	0	0	0	0	0	0	0	0
9/22/2024 1:06	63201	MGTN_T2	0	0	0	0	0	0	1.24	1.29	1	1	0	600	600	0
9/22/2024 7:26	10903	COOP_T2	109	107	-2	0.43	0.36	-0.07	0	0	0	0	0	0	0	0
9/22/2024 7:35	15203	SFAR_T2	111	93	-18	0.18	0.17	-0.01	-1.34	-1.36	0	0	0	0	0	0
9/22/2024 7:41	16301	ALPA_T1	0	0	0	0	0	0	-0.06	-0.03	0	0	0	0	0	0
9/22/2024 7:53	24902	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 7:53	24901	WHHA_T1	0	0	0	0	0	0	0.41	0.45	0	0	0	0	0	0
9/22/2024 7:53	15203	SFAR_T2	92	61	-31	0.17	0.16	-0.01	-1.32	-1.35	0	0	0	0	0	0
9/22/2024 7:59	64201	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/22/2024 7:59	64204	KINZ_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
9/22/2024 7:59	64203	KINZ_T1	0	0	0	0	0	0	0.17	0.13	0	0	0	0	0	0
9/22/2024 8:07	15204	SFAR_T2	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
9/22/2024 8:07	15203	SFAR_T2	61	21	-40	0.16	0.12	-0.04	0	0	0	0	0	0	0	0
9/22/2024 8:09	45901	AUBU_T1	0	0	0	0	0	0	0.92	0.97	0	0	0	0	0	0
9/22/2024 8:09	45902	AUBU_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/22/2024 8:14	50701	SMEC_T1	0	0	0	0	0	0	-0.76	-0.67	1	1	0	900	900	0
9/22/2024 8:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 8:25	20103	AVOC_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
9/22/2024 8:25	24902	WHHA_T1	1	2	1	0.2	0.35	0.15	0.69	0.75	0	0	0	0	0	0
9/22/2024 8:26	24902	WHHA_T1	1	2	1	0.2	0.35	0.15	0.69	0.75	0	0	0	0	0	0
9/22/2024 8:28	20102	AVOC_T1	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
9/22/2024 8:31	13303	ORVI_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
9/22/2024 8:36	13303	ORVI_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
9/22/2024 8:36	15203	SFAR_T2	3	2	-1	0.2	0.15	-0.05	-1.3	-1.27	0	0	0	0	0	0
9/22/2024 8:38	55101	WERT_T1	0	0	0	0	0	0	-4.37	-4.4	2	2	0	1800	1800	0
9/22/2024 8:39	22003	BOHE_T1	232	220	-12	0.38	0.32	-0.06	-0.2	-0.2	0	0	0	0	0	0
9/22/2024 8:51	55101	WERT_T1	0	0	0	0	0	0	-4.37	-4.4	2	2	0	1800	1800	0
9/22/2024 9:08	15203	SFAR_T2	2	2	0	0.15	0.4	0.25	-1.26	-1.22	0	0	0	0	0	0
9/22/2024 9:10	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/22/2024 9:10	13501	MCMI_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
9/22/2024 9:12	44505	HAMI_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
9/22/2024 9:12	44502	HAMI_T2	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
9/22/2024 9:14	54506	ENOL_T2	0	0	0	0	0	0	0.62	0.61	1	1	0	600	600	0
9/22/2024 9:14	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 9:15	63501	HEID_TBK1-2	1	1	0	0.5	0.6	0.1	1.02	1.06	0	0	0	0	0	0
9/22/2024 9:16	44502	HAMI_T2	1	1	0	2.3	2.1	-0.2	0	0	0	0	0	0	0	0
9/22/2024 9:16	44505	HAMI_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
9/22/2024 9:18	13303	ORVI_T1	0	0	0	0	0	0	0.58	0.62	0	0	0	0	0	0
9/22/2024 9:23	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
9/22/2024 9:23	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
9/22/2024 9:24	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
9/22/2024 9:24	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
9/22/2024 9:25	44302	BEAV_T2	0	1	1	0	0.3	0.3	0.25	0.27	0	0	0	0	0	0
9/22/2024 9:25	20401	ASHF_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/22/2024 9:25	20403	ASHF_T2	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
9/22/2024 9:27	20403	ASHF_T2	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
9/22/2024 9:27	20401	ASHF_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/22/2024 9:28	63804	HEMP_T1	1	1	0	6.3	5.5	-0.8	0	0	0	0	0	0	0	0
9/22/2024 9:28	63801	HEMP_T1	0	0	0	0	0	0	-1.15	-1.11	1	1	0	900	900	0
9/22/2024 9:56	44302	BEAV_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/22/2024 9:56	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 10:00	28102	TWLA_T2	13	18	5	0.49	0.52	0.03	0.23	0.22	0	0	0	0	0	0
9/22/2024 10:00	28805	LAKE_T1	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
9/22/2024 10:00	66505	SMAN_T2	0	0	0	0	0	0	0.49	0.05	2	3	1	1100	1700	600
9/22/2024 10:00	67503	WEWI_T2	1	1	0	6.5	6.4	-0.1	-0.19	-0.21	0	0	0	0	0	0
9/22/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	1.79	1.91	0	0	0	0	0	0
9/22/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.52	0.55	0	0	0	0	0	0
9/22/2024 10:00	59002	MIFF_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
9/22/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
9/22/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
9/22/2024 10:00	52403	GRPA_T2	0	1	1	0	0.2	0.2	-0.75	-0.77	0	0	0	0	0	0
9/22/2024 10:07	67605	WARW_T1	0	9	9	0	0.33	0.33	0	0	0	0	0	0	0	0
9/22/2024 10:07	24202	PROV_T4	1	0	-1	1.8	0	-1.8	-0.42	-0.39	1	1	0	1200	1200	0
9/22/2024 10:07	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
9/22/2024 10:07	24206	PROV_T4	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/22/2024 10:09	20401	ASHF_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/22/2024 10:09	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
9/22/2024 10:10	45902	AUBU_T1	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
9/22/2024 10:10	55101	WERT_T1	0	0	0	0	0	0	-8.64	-8.36	6	6	0	4500	4500	0
9/22/2024 10:10	24902	WHHA_T1	11	18	7	0.62	0.56	-0.06	0.73	0.73	0	0	0	0	0	0
9/22/2024 10:10	24901	WHHA_T1	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
9/22/2024 10:10	45901	AUBU_T1	0	0	0	0	0	0	0.96	0.94	0	0	0	0	0	0
9/22/2024 10:11	24901	WHHA_T1	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
9/22/2024 10:11	44302	BEAV_T2	0	2	2	0	0.3	0.3	0.29	0.28	0	0	0	0	0	0
9/22/2024 10:11	24902	WHHA_T1	11	18	7	0.62	0.56	-0.06	0.73	0.73	0	0	0	0	0	0
9/22/2024 10:12	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 10:12	44302	BEAV_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
9/22/2024 10:16	63804	HEMP_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
9/22/2024 10:16	64201	KINZ_T1	1	1	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
9/22/2024 10:16	63801	HEMP_T1	0	0	0	0	0	0	-1.11	-1.07	1	1	0	900	900	0
9/22/2024 10:16	64203	KINZ_T1	0	0	0	0	0	0	-0.44	-0.47	1	1	0	600	600	0
9/22/2024 10:16	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/22/2024 10:17	25402	LAHA_T2	1	3	2	0.4	0.37	-0.03	-0.4	-0.39	0	0	0	0	0	0
9/22/2024 10:18	59301	MCAL_T1	2	2	0	0.45	0.3	-0.15	-1.72	-1.78	1	1	0	600	600	0
9/22/2024 10:22	55101	WERT_T1	0	0	0	0	0	0	-2.79	-2.76	2	2	0	1500	1500	0
9/22/2024 10:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 10:23	20401	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/22/2024 10:23	55101	WERT_T1	0	0	0	0	0	0	-8.36	-8.29	6	6	0	4500	4500	0
9/22/2024 10:23	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.29	0	0	0	0	0	0
9/22/2024 10:24	10801	CHHI_T1	0	6	6	0	0.5	0.5	-1.32	-1.34	2	2	0	1500	1500	0
9/22/2024 10:24	55101	WERT_T1	0	0	0	0	0	0	-5.57	-5.53	4	4	0	3000	3000	0
9/22/2024 10:27	40702	FFLD_T1	5	0	-5	0.12	0	-0.12	-1.27	-1.28	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/22/2024 10:28	45902	AUBU_T1	0	0	0	0	0	0	-0.44	-0.41	0	0	0	0	0	0
9/22/2024 10:35	15702	TANN_T2	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
9/22/2024 10:35	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
9/22/2024 10:37	15702	TANN_T2	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
9/22/2024 10:37	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
9/22/2024 10:39	66502	SMAN_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
9/22/2024 10:41	55101	WERT_T1	0	0	0	0	0	0	-2.76	-2.71	2	2	0	1500	1500	0
9/22/2024 10:49	64305	LINC_T1	1	1	0	0.5	0.2	-0.3	-0.38	-0.2	0	0	0	0	0	0
9/22/2024 10:54	45902	AUBU_T1	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
9/22/2024 10:55	45501	DERR_T2	0	0	0	0	0	0	-0.54	-0.55	2	2	0	1800	1800	0
9/22/2024 10:56	61001	DONV_T1	0	1	1	0	0	0	0.06	0.11	0	0	0	0	0	0
9/22/2024 10:58	45501	DERR_T2	0	0	0	0	0	0	-0.54	-0.55	2	2	0	1800	1800	0
9/22/2024 11:00	63501	HEID_TBK1-2	1	1	0	1.1	1.1	0	-0.2	-0.26	1	1	0	900	900	0
9/22/2024 11:02	63501	HEID_TBK1-2	1	1	0	1.1	1.1	0	-0.2	-0.26	1	1	0	900	900	0
9/22/2024 11:03	13302	ORVI_T2	2	2	0	0.65	0.6	-0.05	1.54	1.59	0	0	0	0	0	0
9/22/2024 11:03	42903	MIDD_T2	2	2	0	1.1	1	-0.1	-0.41	-0.4	0	0	0	0	0	0
9/22/2024 11:04	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 11:04	65207	PRIN_T4	1	1	0	0.1	0.1	0	0	0	2	2	0	1800	1800	0
9/22/2024 11:12	41902	REED_T1	0	0	0	0	0	0	0.85	0.82	0	0	0	0	0	0
9/22/2024 11:13	21206	ECAR_T2	1	1	0	6.2	6.4	0.2	0	0	0	0	0	0	0	0
9/22/2024 11:13	21204	ECAR_T2	1	1	0	0	0	0	-0.67	-0.7	0	0	0	0	0	0
9/22/2024 11:14	50105	HARR_T3	6	6	0	6.45	6.43	-0.02	0	0	0	0	0	0	0	0
9/22/2024 11:14	50107	HARR_T3	1	1	0	7.5	7.2	-0.3	0	0	0	0	0	0	0	0
9/22/2024 11:14	50201	HARR_T3	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
9/22/2024 11:20	66504	SMAN_T2	0	0	0	0	0	0	-1.57	-1.52	1	1	0	1200	1200	0
9/22/2024 11:22	66504	SMAN_T2	0	0	0	0	0	0	-3.05	-2.94	2	2	0	2400	2400	0
9/22/2024 11:24	67605	WARW_T1	5	1	-4	0.16	0.1	-0.06	-0.98	-0.95	0	0	0	0	0	0
9/22/2024 11:25	46001	BERW_T1	0	0	0	0	0	0	-1.02	-0.91	0	0	0	0	0	0
9/22/2024 11:28	47901	HRDG_T1	0	0	0	0	0	0	1.41	1.21	0	0	0	0	0	0
9/22/2024 11:29	67605	WARW_T1	5	1	-4	0.16	0.1	-0.06	-0.98	-0.95	0	0	0	0	0	0
9/22/2024 11:29	47901	HRDG_T1	0	0	0	0	0	0	1.41	1.21	0	0	0	0	0	0
9/22/2024 11:37	16101	BING_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
9/22/2024 11:37	16103	BING_T2	0	0	0	0	0	0	-0.75	-0.65	2	2	0	1500	1500	0
9/22/2024 11:40	46004	BERW_T2	1	0	-1	0.1	0	-0.1	-0.59	-0.56	0	0	0	0	0	0
9/22/2024 11:42	64602	LEOL_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
9/22/2024 11:53	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 11:54	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 11:54	42601	TUSC_T1	0	1	1	0	0	0	-0.5	-0.4	2	2	0	1800	1800	0
9/22/2024 11:55	45902	AUBU_T1	3	27	24	1.53	0.55	-0.98	-0.98	-0.96	1	1	0	600	600	0
9/22/2024 11:56	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 11:57	46004	BERW_T2	0	0	0	0	0	0	-0.56	-0.48	0	0	0	0	0	0
9/22/2024 11:58	45902	AUBU_T1	3	27	24	1.53	0.55	-0.98	0	0	0	0	0	0	0	0
9/22/2024 11:58	45901	AUBU_T1	0	0	0	0	0	0	1.01	1.04	0	0	0	0	0	0
9/22/2024 11:59	23402	HONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/22/2024 11:59	23401	HONE_T2	1	2	1	0.6	0.4	-0.2	0.06	-0.01	0	0	0	0	0	0
9/22/2024 12:00	64201	KINZ_T1	2	2	0	0.5	0.6	0.1	-0.81	-0.45	3	2	-1	1500	1200	-300
9/22/2024 12:00	64202	KINZ_T1	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
9/22/2024 12:00	64204	KINZ_T1	2	3	1	0.15	0.87	0.72	0	0	0	0	0	0	0	0
9/22/2024 12:01	64202	KINZ_T1	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
9/22/2024 12:01	64204	KINZ_T1	2	3	1	0.15	0.87	0.72	0	0	0	0	0	0	0	0
9/22/2024 12:01	13503	MCMI_T2	1	193	192	0.9	0.37	-0.53	-0.01	-0.87	0	0	0	0	0	0
9/22/2024 12:01	60502	NMAN_T2	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
9/22/2024 12:01	64201	KINZ_T1	2	2	0	0.5	0.6	0.1	-0.81	-0.45	3	2	-1	1500	1200	-300
9/22/2024 12:02	64204	KINZ_T1	2	3	1	0.15	0.87	0.72	0	0	0	0	0	0	0	0
9/22/2024 12:02	64201	KINZ_T1	2	2	0	0.5	0.6	0.1	-0.81	-0.45	3	2	-1	1500	1200	-300
9/22/2024 12:02	64202	KINZ_T1	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
9/22/2024 12:04	13503	MCMI_T2	1	193	192	0.9	0.37	-0.53	-0.01	-0.87	0	0	0	0	0	0
9/22/2024 12:10	13503	MCMI_T2	1	193	192	0.9	0.37	-0.53	-0.87	-0.87	0	0	0	0	0	0
9/22/2024 12:11	48302	ORWI_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
9/22/2024 12:11	16302	ALPA_T2	0	0	0	0	0	0	0.71	0.77	0	0	0	0	0	0
9/22/2024 12:12	60803	BUCK_T1	7	6	-1	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
9/22/2024 12:12	14203	EALL_T1	2	2	0	0.35	0.35	0	-0.07	-0.04	1	1	0	1200	1200	0
9/22/2024 12:12	16302	ALPA_T2	0	0	0	0	0	0	1.42	1.54	0	0	0	0	0	0
9/22/2024 12:12	60801	BUCK_T1	17	5	-12	0.14	0.16	0.02	-0.82	-0.82	1	1	0	600	600	0
9/22/2024 12:12	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 12:13	16302	ALPA_T2	0	0	0	0	0	0	0.71	0.77	0	0	0	0	0	0
9/22/2024 12:14	45902	AUBU_T1	25	25	0	0.55	0.48	-0.07	-0.96	-0.9	1	1	0	600	600	0
9/22/2024 12:15	55405	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 12:16	64203	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/22/2024 12:16	64204	KINZ_T1	3	3	0	0.43	0.87	0.44	0	0	0	0	0	0	0	0
9/22/2024 12:16	64201	KINZ_T1	2	1	-1	0.6	0.8	0.2	-0.45	-0.34	2	2	0	1200	1200	0
9/22/2024 12:16	64202	KINZ_T1	4	3	-1	0.38	0.43	0.05	0	0	0	0	0	0	0	0
9/22/2024 12:17	58401	MORO_T1	0	0	0	0	0	0	-2.24	-2.22	2	2	0	1200	1200	0
9/22/2024 12:19	16901	MECK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/22/2024 12:19	16902	MECK_T1	0	2	2	0	0.25	0.25	0.15	0.07	0	0	0	0	0	0
9/22/2024 12:20	13503	MCMI_T2	185	189	4	0.37	0.39	0.02	-0.87	-0.87	0	0	0	0	0	0
9/22/2024 12:21	66505	SMAN_T2	0	0	0	0	0	0	0.23	0.27	3	2	-1	1700	1500	-200
9/22/2024 12:21	66502	SMAN_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/22/2024 12:22	13502	MCMI_T1	1	2	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/22/2024 12:27	13702	SCHN_T1	0	0	0	0	0	0	0.61	-0.38	0	0	0	0	0	0
9/22/2024 12:30	11202	ELHE_T2	0	0	0	0	0	0	0.23	0.24	1	1	0	1200	1200	0
9/22/2024 12:32	16902	MECK_T1	2	1	-1	0.25	0.1	-0.15	0.07	0.11	0	0	0	0	0	0
9/22/2024 12:32	16901	MECK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/22/2024 12:36	65205	PRIN_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
9/22/2024 12:36	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/22/2024 12:39	60801	BUCK_T1	5	4	-1	0.16	0.18	0.02	-0.8	-0.8	1	1	0	600	600	0
9/22/2024 12:39	60803	BUCK_T1	6	8	2	0.13	0.18	0.05	0	0	0	0	0	0	0	0
9/22/2024 12:46	16902	MECK_T1	1	1	0	0.1	0.4	0.3	0.11	0.12	0	0	0	0	0	0
9/22/2024 12:46	50105	HARR_T3	6	6	0	6.48	6.47	-0.01	0	0	0	0	0	0	0	0
9/22/2024 12:46	50201	HARR_T3	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/22/2024 12:46	50107	HARR_T3	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
9/22/2024 12:48	27603	PIRI_T2	0	0	0	0	0	0	-1.31	-1.35	2	2	0	1800	1800	0
9/22/2024 12:49	16902	MECK_T1	1	1	0	0.1	0.4	0.3	0.11	0.12	0	0	0	0	0	0
9/22/2024 12:53	60201	ATGL_T2	0	2	2	0	0.2	0.2	-0.09	-0.06	0	0	0	0	0	0
9/22/2024 12:53	14403	SSLA_T1	0	1	1	0	0	0	0.88	0.88	0	0	0	0	0	0
9/22/2024 13:01	63401	HONY_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
9/22/2024 13:01	63404	HONY_T1	16	17	1	0.21	0.16	-0.05	0	0	0	0	0	0	0	0
9/22/2024 13:09	67402	WAKE_T2	0	0	0	0	0	0	-0.22	-0.23	1	1	0	600	600	0
9/22/2024 13:10	67605	WARW_T1	1	2	1	0.5	0.2	-0.3	-0.92	-0.89	0	0	0	0	0	0
9/22/2024 13:10	15703	TANN_T2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
9/22/2024 13:10	15702	TANN_T2	0	0	0	0	0	0	-0.18	-0.22	0	0	0	0	0	0
9/22/2024 13:11	67401	WAKE_T2	0	0	0	0	0	0	-1.02	-0.99	0	0	0	0	0	0
9/22/2024 13:13	67605	WARW_T1	1	2	1	0.5	0.2	-0.3	-0.92	-0.89	0	0	0	0	0	0
9/22/2024 13:14	21206	ECAR_T2	1	1	0	5.8	6.1	0.3	0.55	0.52	0	0	0	0	0	0
9/22/2024 13:14	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 13:16	10805	CHHI_T2	1	1	0	8.8	7.7	-1.1	-0.74	-1.34	0	1	1	0	600	600
9/22/2024 13:19	65003	NEFF_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
9/22/2024 13:19	65001	NEFF_T2	0	0	0	0	0	0	-0.88	-0.9	1	1	0	1200	1200	0
9/22/2024 13:30	63501	HEID_TBK1-2	1	1	0	0.2	0.5	0.3	-0.05	0.05	1	1	0	900	900	0
9/22/2024 13:34	63501	HEID_TBK1-2	1	1	0	0.2	0.5	0.3	-0.05	0.05	1	1	0	900	900	0
9/22/2024 13:42	45502	DERR_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
9/22/2024 13:43	20603	GRWO_T2	0	0	0	0	0	0	-0.46	-0.48	1	1	0	900	900	0
9/22/2024 13:43	53901	HALI_T2	1	1	0	0.2	0.8	0.6	-1.09	-1.05	0	0	0	0	0	0
9/22/2024 13:43	20601	GRWO_T2	1	4	3	0.2	0.4	0.2	0	0	0	0	0	0	0	0
9/22/2024 13:43	53903	HALI_T2	2	2	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
9/22/2024 13:43	53902	HALI_T2	1	2	1	4.7	2.7	-2	0	0	0	0	0	0	0	0
9/22/2024 13:45	53903	HALI_T2	2	2	0	1.2	1.3	0.1	-0.06	-0.08	0	0	0	0	0	0
9/22/2024 13:45	53901	HALI_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/22/2024 13:45	44502	HAMI_T2	1	1	0	2.6	2.5	-0.1	0	0	0	0	0	0	0	0
9/22/2024 13:45	44505	HAMI_T2	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
9/22/2024 13:45	53902	HALI_T2	2	2	0	2.7	2.55	-0.15	0	0	0	0	0	0	0	0
9/22/2024 13:46	44502	HAMI_T2	1	1	0	2.6	2.5	-0.1	0	0	0	0	0	0	0	0
9/22/2024 13:46	42903	MIDD_T2	2	2	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
9/22/2024 13:46	42902	MIDD_T2	0	0	0	0	0	0	-0.65	-0.61	0	0	0	0	0	0
9/22/2024 13:46	44505	HAMI_T2	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
9/22/2024 13:49	10801	CHHI_T1	6	4	-2	0.97	0.68	-0.29	-1.58	-1.58	3	3	0	2100	2100	0
9/22/2024 13:49	65501	MOJO_T1	0	0	0	0	0	0	-1.07	-1.07	1	1	0	900	900	0
9/22/2024 14:01	22602	KIMB_T1	2	2	0	0.65	0.75	0.1	0.43	0.41	0	0	0	0	0	0
9/22/2024 14:01	22601	KIMB_T1	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
9/22/2024 14:13	44801	EDAN_T2	1	2	1	0.3	0.15	-0.15	-1.54	-1.53	0	0	0	0	0	0
9/22/2024 14:14	53903	HALI_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
9/22/2024 14:14	53902	HALI_T2	1	2	1	4.8	2.6	-2.2	0	0	0	0	0	0	0	0
9/22/2024 14:14	53901	HALI_T2	1	1	0	0.8	0.6	-0.2	-1.07	-1.07	0	0	0	0	0	0
9/22/2024 14:14	44801	EDAN_T2	1	2	1	0.3	0.15	-0.15	-1.54	-1.53	0	0	0	0	0	0
9/22/2024 14:17	64101	REFR_T1	1	3	2	0.7	0	-0.7	-0.01	-0.01	0	0	0	0	0	0
9/22/2024 14:20	64101	REFR_T1	1	3	2	0.7	0	-0.7	-0.02	-0.02	0	0	0	0	0	0
9/22/2024 14:21	64101	REFR_T1	1	3	2	0.7	0	-0.7	-0.01	-0.01	0	0	0	0	0	0
9/22/2024 14:27	64101	REFR_T1	1	3	2	0.7	0	-0.7	-0.01	-0.01	0	0	0	0	0	0
9/22/2024 14:28	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 14:28	21206	ECAR_T2	1	2	1	6	6.1	0.1	0.59	0.6	0	0	0	0	0	0
9/22/2024 14:34	47802	MOCK_T2	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
9/22/2024 14:52	13905	SEID_T1	0	0	0	0	0	0	-0.61	-0.63	1	1	0	1200	1200	0
9/22/2024 15:10	44801	EDAN_T2	24	34	10	0.28	0.38	0.1	-1.45	-1.47	0	0	0	0	0	0
9/22/2024 15:12	44801	EDAN_T2	24	34	10	0.28	0.38	0.1	0	0	0	0	0	0	0	0
9/22/2024 15:12	44802	EDAN_T2	0	0	0	0	0	0	-7.2	-7.35	0	0	0	0	0	0
9/22/2024 15:14	44801	EDAN_T2	24	34	10	0.28	0.38	0.1	0	0	0	0	0	0	0	0
9/22/2024 15:14	44802	EDAN_T2	0	0	0	0	0	0	-3.6	-3.68	0	0	0	0	0	0
9/22/2024 15:32	25402	LAHA_T2	2	1	-1	0.15	0.1	-0.05	-0.52	-0.67	0	0	0	0	0	0
9/22/2024 15:39	41902	REED_T1	0	0	0	0	0	0	1.04	0.99	0	0	0	0	0	0
9/22/2024 15:41	41902	REED_T1	0	0	0	0	0	0	1.04	0.99	0	0	0	0	0	0
9/22/2024 15:44	41902	REED_T1	0	0	0	0	0	0	1.04	0.99	0	0	0	0	0	0
9/22/2024 15:47	55001	NEWP_T1	0	0	0	0	0	0	-0.12	-0.1	0	0	0	0	0	0
9/22/2024 15:47	55002	NEWP_T1	5	4	-1	1.54	0.65	-0.89	0	0	0	0	0	0	0	0
9/22/2024 15:49	55002	NEWP_T1	5	4	-1	1.54	0.65	-0.89	-0.22	-0.19	0	0	0	0	0	0
9/22/2024 15:59	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 16:08	64101	REFR_T1	27	107	80	0.44	0.46	0.02	-0.01	-0.01	0	0	0	0	0	0
9/22/2024 16:12	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 16:23	64101	REFR_T1	15	143	128	0.51	0.37	-0.14	-0.01	-0.01	0	0	0	0	0	0
9/22/2024 16:29	50107	HARR_T3	1	1	0	7.9	8	0.1	0	0	0	0	0	0	0	0
9/22/2024 16:29	50201	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 16:29	50105	HARR_T3	6	6	0	6.82	6.43	-0.39	0	0	0	0	0	0	0	0
9/22/2024 16:30	40101	HUNT_T2	19	6	-13	0.43	0.25	-0.18	-0.61	-0.61	0	0	0	0	0	0
9/22/2024 16:31	50201	HARR_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/22/2024 16:31	50107	HARR_T3	1	1	0	8.4	7.7	-0.7	0	0	0	0	0	0	0	0
9/22/2024 16:31	50105	HARR_T3	6	6	0	6.55	6.45	-0.1	0	0	0	0	0	0	0	0
9/22/2024 16:37	24902	WHHA_T1	6	2	-4	0.6	0.8	0.2	0.82	0.83	0	0	0	0	0	0
9/22/2024 16:49	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 17:04	52004	LING_T2	2	3	1	4.25	2.83	-1.42	-0.12	-0.01	0	0	0	0	0	0
9/22/2024 17:14	21501	CEAV_T2	0	0	0	0	0	0	0.81	0.62	1	1	0	1200	1200	0
9/22/2024 17:22	24902	WHHA_T1	4	3	-1	0.63	0.3	-0.33	0	0	0	0	0	0	0	0
9/22/2024 17:22	24901	WHHA_T1	0	0	0	0	0	0	-0.6	-0.65	0	0	0	0	0	0
9/22/2024 17:42	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 17:42	21206	ECAR_T2	1	1	0	6.2	6.3	0.1	0.66	0.57	0	0	0	0	0	0
9/22/2024 17:51	51804	EBEN_T2	0	0	0	0	0	0	-0.05	-0.03	2	2	0	1800	1800	0
9/22/2024 18:07	63201	MGTN_T2	0	2	2	0	0	0	0.84	0.86	1	1	0	600	600	0
9/22/2024 19:15	66302	MCGO_T2	0	0	0	0	0	0	-1.44	-1.46	1	1	0	600	600	0
9/22/2024 20:25	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 20:49	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 20:53	59301	MCAL_T1	2	2	0	0.55	0.8	0.25	-1.81	-1.8	1	1	0	600	600	0
9/22/2024 20:54	64305	LINC_T1	0	2	2	0	0.1	0.1	-0.45	-0.37	0	0	0	0	0	0
9/22/2024 20:54	13302	ORVI_T2	1	2	1	0.1	0.1	0	0.33	0.37	0	0	0	0	0	0
9/22/2024 20:56	16902	MECK_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
9/22/2024 20:56	13303	ORVI_T1	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
9/22/2024 20:56	16901	MECK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 20:56	13503	MCMI_T2	9	73	64	0.11	0.23	0.12	-0.88	-0.9	0	0	0	0	0	0
9/22/2024 20:57	15703	TANN_T2	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
9/22/2024 20:57	44301	BEAV_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
9/22/2024 20:57	15702	TANN_T2	0	0	0	0	0	0	-0.33	-0.37	0	0	0	0	0	0
9/22/2024 20:57	25404	LAHA_T2	34	171	137	0.11	0.13	0.02	0	0	0	0	0	0	0	0
9/22/2024 20:57	16901	MECK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 20:57	24902	WHHA_T1	2	5	3	0.2	0.1	-0.1	0.74	0.76	0	0	0	0	0	0
9/22/2024 20:57	25402	LAHA_T2	1	2	1	0.1	0.2	0.1	-0.87	-0.86	0	0	0	0	0	0
9/22/2024 20:57	47802	MOCA_T2	0	0	0	0	0	0	-0.91	-0.78	0	0	0	0	0	0
9/22/2024 20:57	44302	BEAV_T2	13	8	-5	0.12	0.13	0.01	0.24	0.25	0	0	0	0	0	0
9/22/2024 20:57	16902	MECK_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
9/22/2024 20:58	53903	HALI_T2	2	2	0	1.5	1.45	-0.05	0	0	0	0	0	0	0	0
9/22/2024 20:58	24202	PROV_T4	1	1	0	2.9	0	-2.9	-0.36	-0.39	1	1	0	1200	1200	0
9/22/2024 20:58	53901	HALI_T2	1	1	0	0.8	0.8	0	-1.08	-0.06	0	0	0	0	0	0
9/22/2024 20:58	55101	WERT_T1	0	0	0	0	0	0	-1.98	-1.39	2	2	0	1500	1500	0
9/22/2024 20:58	53902	HALI_T2	1	1	0	5.4	5.1	-0.3	0	0	0	0	0	0	0	0
9/22/2024 20:59	45902	AUBU_T1	4	7	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
9/22/2024 20:59	13905	SEID_T1	0	0	0	0	0	0	-0.84	-0.87	1	1	0	1200	1200	0
9/22/2024 20:59	45501	DERR_T2	0	0	0	0	0	0	-0.8	-0.81	2	2	0	1800	1800	0
9/22/2024 20:59	50201	HARR_T3	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
9/22/2024 20:59	45901	AUBU_T1	0	0	0	0	0	0	1.02	1.01	0	0	0	0	0	0
9/22/2024 20:59	50107	HARR_T3	1	1	0	7.6	6.9	-0.7	0	0	0	0	0	0	0	0
9/22/2024 20:59	16902	MECK_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
9/22/2024 20:59	50103	HARR_T3	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/22/2024 20:59	50105	HARR_T3	6	6	0	6.38	6.23	-0.15	0	0	0	0	0	0	0	0
9/22/2024 20:59	16901	MECK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 20:59	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 21:00	13503	MCMI_T2	73	1	-72	0.23	0.1	-0.13	-0.88	-0.9	0	0	0	0	0	0
9/22/2024 21:00	52004	LING_T2	2	2	0	5	4.95	-0.05	-0.03	-0.03	0	0	0	0	0	0
9/22/2024 21:00	14203	EALL_T1	0	0	0	0	0	0	-0.19	-0.22	1	1	0	1200	1200	0
9/22/2024 21:00	16901	MECK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/22/2024 21:00	20403	ASHF_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
9/22/2024 21:00	16902	MECK_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
9/22/2024 21:00	16302	ALPA_T2	0	0	0	0	0	0	0.71	0.68	0	0	0	0	0	0
9/22/2024 21:01	16302	ALPA_T2	0	0	0	0	0	0	0.71	0.68	0	0	0	0	0	0
9/22/2024 21:01	64201	KINZ_T1	1	1	0	1.4	1.7	0.3	-1.7	-1.7	6	6	0	3000	3000	0
9/22/2024 21:01	16102	BING_T2	1	9	8	0.1	0.17	0.07	0	0	0	0	0	0	0	0
9/22/2024 21:01	53902	HALI_T2	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
9/22/2024 21:01	16103	BING_T2	0	0	0	0	0	0	-1.2	-1.2	1	1	0	900	900	0
9/22/2024 21:01	53901	HALI_T2	1	0	-1	0.8	0	-0.8	-1.08	-0.06	0	0	0	0	0	0
9/22/2024 21:01	65001	NEFF_T2	0	11	11	0	0.1	0.1	-1.17	-1.15	1	1	0	1200	1200	0
9/22/2024 21:01	65003	NEFF_T2	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
9/22/2024 21:01	64202	KINZ_T1	3	3	0	0.73	1.1	0.37	0	0	0	0	0	0	0	0
9/22/2024 21:01	48302	ORWI_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
9/22/2024 21:01	64204	KINZ_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
9/22/2024 21:01	63501	HEID_TBK1-2	1	1	0	1.7	1.6	-0.1	-0.48	-0.41	2	2	0	1800	1800	0
9/22/2024 21:01	67605	WARW_T1	3	4	1	1.27	1.23	-0.04	-1.16	-1.2	0	0	0	0	0	0
9/22/2024 21:01	24902	WHHA_T1	1	6	5	0.1	0.52	0.42	0.74	0.76	0	0	0	0	0	0
9/22/2024 21:01	45902	AUBU_T1	7	6	-1	0.22	0.23	0.01	-2.07	-2.03	2	2	0	1200	1200	0
9/22/2024 21:01	53903	HALI_T2	2	2	0	1.45	0.65	-0.8	0	0	0	0	0	0	0	0
9/22/2024 21:02	16302	ALPA_T2	0	0	0	0	0	0	0.71	0.68	0	0	0	0	0	0
9/22/2024 21:02	21206	ECAR_T2	1	1	0	7	7.1	0.1	0.57	0.57	0	0	0	0	0	0
9/22/2024 21:02	42902	MIDD_T2	0	1	1	0	0.1	0.1	-0.65	-0.66	0	0	0	0	0	0
9/22/2024 21:02	42903	MIDD_T2	2	2	0	1.75	1.8	0.05	0	0	0	0	0	0	0	0
9/22/2024 21:02	67605	WARW_T1	3	4	1	1.27	1.23	-0.04	-1.16	-1.2	0	0	0	0	0	0
9/22/2024 21:02	64204	KINZ_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
9/22/2024 21:02	64202	KINZ_T1	3	3	0	0.73	1.1	0.37	0	0	0	0	0	0	0	0
9/22/2024 21:02	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 21:02	64201	KINZ_T1	1	1	0	1.4	1.7	0.3	-0.85	-0.85	3	3	0	1500	1500	0
9/22/2024 21:02	42601	TUSC_T1	0	2	2	0	0.2	0.2	-0.45	-0.51	2	2	0	1800	1800	0
9/22/2024 21:02	15702	TANN_T2	0	0	0	0	0	0	-0.66	-0.73	0	0	0	0	0	0
9/22/2024 21:02	45902	AUBU_T1	7	6	-1	0.22	0.23	0.01	-1.04	-1.02	1	1	0	600	600	0
9/22/2024 21:02	15703	TANN_T2	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
9/22/2024 21:03	60803	BUCK_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/22/2024 21:03	44801	EDAN_T2	67	16	-51	0.44	0.18	-0.26	0	0	0	0	0	0	0	0
9/22/2024 21:03	46004	BERW_T2	0	1	1	0	1.8	1.8	-0.48	-0.49	0	0	0	0	0	0
9/22/2024 21:03	44802	EDAN_T2	0	0	0	0	0	0	-2.01	-0.69	0	0	0	0	0	0
9/22/2024 21:03	45902	AUBU_T1	7	6	-1	0.22	0.23	0.01	0	0	0	0	0	0	0	0
9/22/2024 21:03	40101	HUNT_T2	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
9/22/2024 21:03	55101	WERT_T1	0	0	0	0	0	0	-1.98	-1.39	2	2	0	1500	1500	0
9/22/2024 21:03	45901	AUBU_T1	0	0	0	0	0	0	1.02	1.01	0	0	0	0	0	0
9/22/2024 21:03	60801	BUCK_T1	0	0	0	0	0	0	-0.85	-0.18	1	0	-1	600	0	-600
9/22/2024 21:04	50201	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/22/2024 21:04	44802	EDAN_T2	0	0	0	0	0	0	-6.02	-2.07	0	0	0	0	0	0
9/22/2024 21:04	44801	EDAN_T2	67	16	-51	0.44	0.18	-0.26	0	0	0	0	0	0	0	0
9/22/2024 21:04	10801	CHHI_T1	0	0	0	0	0	0	-1.68	-1.71	3	3	0	2100	2100	0
9/22/2024 21:04	50107	HARR_T3	1	1	0	6.9	6.5	-0.4	0	0	0	0	0	0	0	0
9/22/2024 21:04	67603	WARW_T1	0	0	0	0	0	0	0.07	0.01	0	0	0	0	0	0
9/22/2024 21:04	50105	HARR_T3	6	6	0	6.3	6.12	-0.18	0	0	0	0	0	0	0	0
9/22/2024 21:04	64602	LEOL_T1	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
9/22/2024 21:04	45902	AUBU_T1	7	6	-1	0.22	0.23	0.01	-1.04	-1.02	1	1	0	600	600	0
9/22/2024 21:04	50103	HARR_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/22/2024 21:04	11202	ELHE_T2	0	0	0	0	0	0	0.17	0.59	1	0	-1	1200	0	-1200
9/22/2024 21:04	64101	REFR_T1	2	9	7	0.15	0	-0.15	-0.01	-0.01	0	0	0	0	0	0
9/22/2024 21:04	63501	HEID_TBK1-2	1	1	0	1.7	1.6	-0.1	-0.24	-0.2	1	1	0	900	900	0
9/22/2024 21:04	67605	WARW_T1	3	4	1	1.27	1.23	-0.04	0	0	0	0	0	0	0	0
9/22/2024 21:05	64101	REFR_T1	2	9	7	0.15	0	-0.15	-0.01	-0.01	0	0	0	0	0	0
9/22/2024 21:05	45902	AUBU_T1	7	6	-1	0.22	0.23	0.01	-1.04	-1.02	1	1	0	600	600	0
9/22/2024 21:05	47901	HRDG_T1	0	0	0	0	0	0	0.16	1.35	1	0	-1	1200	0	-1200
9/22/2024 21:05	65207	PRIN_T4	1	1	0	0.9	1	0.1	0	2	2	1	-1	1800	1200	-600
9/22/2024 21:05	66504	SMAN_T2	0	0	0	0	0	0	-2.98	-2.89	2	2	0	2400	2400	0
9/22/2024 21:05	13503	MCMI_T2	73	1	-72	0.23	0.1	-0.13	-0.88	-0.9	0	0	0	0	0	0
9/22/2024 21:05	23401	HONE_T2	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
9/22/2024 21:05	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 21:05	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/22/2024 21:05	55405	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 21:06	58401	MORO_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	600	600	0
9/22/2024 21:06	66504	SMAN_T2	0	0	0	0	0	0	-1.49	-1.45	1	1	0	1200	1200	0
9/22/2024 21:06	61001	DONV_T1	0	0	0	0	0	0	0.24	0.18	0	0	0	0	0	0
9/22/2024 21:06	66505	SMAN_T2	0	3	3	0	0.2	0.2	0.01	-0.05	2	2	0	1500	1500	0
9/22/2024 21:06	13702	SCHN_T1	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
9/22/2024 21:06	67605	WARW_T1	3	4	1	1.27	1.23	-0.04	-1.16	-1.2	0	0	0	0	0	0
9/22/2024 21:06	64101	REFR_T1	2	9	7	0.15	0	-0.15	-0.01	-0.01	0	0	0	0	0	0
9/22/2024 21:06	55101	WERT_T1	0	0	0	0	0	0	-5.93	-4.17	6	6	0	4500	4500	0
9/22/2024 21:06	44505	HAMI_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
9/22/2024 21:06	65205	PRIN_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
9/22/2024 21:06	44502	HAMI_T2	1	1	0	3.2	3.6	0.4	0	0	0	0	0	0	0	0
9/22/2024 21:06	41902	REED_T1	0	1	1	0	0	0	0.85	0.85	0	0	0	0	0	0
9/22/2024 21:06	27603	PIRI_T2	0	0	0	0	0	0	-1.51	-1.51	2	2	0	1800	1800	0
9/22/2024 21:06	60201	ATGL_T2	0	0	0	0	0	0	-0.02	-0.17	0	0	0	0	0	0
9/22/2024 21:07	10805	CHHI_T2	1	1	0	7.9	7	-0.9	-0.96	-1.26	1	1	0	600	600	0
9/22/2024 21:07	55001	NEWP_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
9/22/2024 21:07	46001	BERW_T1	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
9/22/2024 21:07	16302	ALPA_T2	0	0	0	0	0	0	0.68	0.71	0	0	0	0	0	0
9/22/2024 21:07	60502	NMAN_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
9/22/2024 21:07	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 21:07	64201	KINZ_T1	1	1	0	1.4	1.7	0.3	-0.85	-0.86	3	3	0	1500	1500	0
9/22/2024 21:07	20601	GRWO_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/22/2024 21:07	42902	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/22/2024 21:07	42903	MIDD_T2	2	2	0	1.75	1.8	0.05	-0.55	-0.58	0	0	0	0	0	0
9/22/2024 21:07	64101	REFR_T1	2	9	7	0.15	0	-0.15	-0.01	-0.01	0	0	0	0	0	0
9/22/2024 21:07	14403	SSLA_T1	0	0	0	0	0	0	0.06	0.01	1	1	0	600	600	0
9/22/2024 21:07	64202	KINZ_T1	3	3	0	0.73	1.1	0.37	0	0	0	0	0	0	0	0
9/22/2024 21:07	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.81	-0.81	2	2	0	1800	1800	0
9/22/2024 21:07	20603	GRWO_T2	0	0	0	0	0	0	-0.59	-0.59	1	1	0	900	900	0
9/22/2024 21:07	58401	MORO_T1	0	0	0	0	0	0	-1	-1.04	1	1	0	600	600	0
9/22/2024 21:07	22602	KIMB_T1	1	1	0	0.4	0.5	0.1	0.34	0.34	0	0	0	0	0	0
9/22/2024 21:07	44502	HAMI_T2	1	1	0	3.2	3.6	0.4	0	0	0	0	0	0	0	0
9/22/2024 21:07	55002	NEWP_T1	5	4	-1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
9/22/2024 21:07	13303	ORVI_T1	0	0	0	0	0	0	1.35	1.35	0	0	0	0	0	0
9/22/2024 21:07	44505	HAMI_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
9/22/2024 21:07	64204	KINZ_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
9/22/2024 21:08	40702	FFLD_T1	7	12	5	0.1	0.17	0.07	-1.22	-1.24	1	1	0	1200	1200	0
9/22/2024 21:08	44301	BEAV_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/22/2024 21:08	46004	BERW_T2	0	1	1	0	1.8	1.8	-0.49	-0.5	0	0	0	0	0	0
9/22/2024 21:08	40701	FFLD_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/22/2024 21:08	44302	BEAV_T2	8	2	-6	0.13	0.15	0.02	0	0	0	0	0	0	0	0
9/22/2024 21:08	60801	BUCK_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
9/22/2024 21:08	44801	EDAN_T2	67	16	-51	0.44	0.18	-0.26	-1.62	-1.64	0	0	0	0	0	0
9/22/2024 21:08	60803	BUCK_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/22/2024 21:08	24902	WHHA_T1	1	6	5	0.1	0.52	0.42	0	0	0	0	0	0	0	0
9/22/2024 21:08	25404	LAHA_T2	38	251	213	0.1	0.14	0.04	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/22/2024 21:08	24901	WHHA_T1	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
9/22/2024 21:08	45502	DERR_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
9/22/2024 21:08	45501	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/22/2024 21:08	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 21:08	25402	LAHA_T2	1	5	4	0.1	0.12	0.02	-0.86	-0.86	0	0	0	0	0	0
9/22/2024 21:09	63404	HONY_T1	49	131	82	0.28	0.33	0.05	0	0	0	0	0	0	0	0
9/22/2024 21:09	20403	ASHF_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
9/22/2024 21:09	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/22/2024 21:09	66502	SMAN_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
9/22/2024 21:09	55101	WERT_T1	0	0	0	0	0	0	-4.17	-4.12	6	6	0	4500	4500	0
9/22/2024 21:09	63403	HONY_T1	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
9/22/2024 21:09	55002	NEWP_T1	5	4	-1	0.8	0.45	-0.35	-0.23	-0.25	0	0	0	0	0	0
9/22/2024 21:09	64101	REFR_T1	2	9	7	0.15	0	-0.15	-0.01	-0.01	0	0	0	0	0	0
9/22/2024 21:09	44801	EDAN_T2	67	16	-51	0.44	0.18	-0.26	-1.62	-1.64	0	0	0	0	0	0
9/22/2024 21:10	47901	HRDG_T1	0	0	0	0	0	0	1.35	1	0	0	0	0	0	0
9/22/2024 21:10	53901	HALI_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
9/22/2024 21:10	41902	REED_T1	0	1	1	0	0	0	0.85	0.85	0	0	0	0	0	0
9/22/2024 21:10	53902	HALI_T2	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
9/22/2024 21:10	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 21:10	21501	CEAV_T2	0	0	0	0	0	0	1.46	1.5	0	0	0	0	0	0
9/22/2024 21:10	53903	HALI_T2	2	2	0	1.45	0.65	-0.8	-0.14	-0.14	0	0	0	0	0	0
9/22/2024 21:11	63501	HEID_TBK1-2	1	1	0	1.7	1.6	-0.1	-0.2	-0.32	1	1	0	900	900	0
9/22/2024 21:11	44801	EDAN_T2	67	16	-51	0.44	0.18	-0.26	0	0	0	0	0	0	0	0
9/22/2024 21:11	55101	WERT_T1	0	0	0	0	0	0	-1.39	-1.37	2	2	0	1500	1500	0
9/22/2024 21:11	64101	REFR_T1	2	9	7	0.15	0	-0.15	-0.01	-0.01	0	0	0	0	0	0
9/22/2024 21:11	44802	EDAN_T2	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
9/22/2024 21:12	64201	KINZ_T1	1	1	0	1.4	1.7	0.3	0	0	0	0	0	0	0	0
9/22/2024 21:12	64202	KINZ_T1	3	3	0	0.73	1.1	0.37	0	0	0	0	0	0	0	0
9/22/2024 21:12	63801	HEMP_T1	0	0	0	0	0	0	-1.05	-1.08	1	1	0	900	900	0
9/22/2024 21:12	67605	WARW_T1	3	4	1	1.27	1.23	-0.04	-1.2	-1.19	0	0	0	0	0	0
9/22/2024 21:12	64203	KINZ_T1	0	0	0	0	0	0	-0.35	-0.32	1	1	0	600	600	0
9/22/2024 21:12	63804	HEMP_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/22/2024 21:12	64204	KINZ_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
9/22/2024 21:13	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2024 21:14	44801	EDAN_T2	67	16	-51	0.44	0.18	-0.26	0	0	0	0	0	0	0	0
9/22/2024 21:14	55101	WERT_T1	0	0	0	0	0	0	-1.39	-1.37	2	2	0	1500	1500	0
9/22/2024 21:14	41902	REED_T1	0	1	1	0	0	0	0.85	0.85	0	0	0	0	0	0
9/22/2024 21:14	44802	EDAN_T2	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
9/22/2024 21:49	44801	EDAN_T2	24	37	13	0.18	0.3	0.12	-1.66	-1.67	0	0	0	0	0	0
9/22/2024 22:54	45902	AUBU_T1	0	0	0	0	0	0	-0.48	-0.39	0	0	0	0	0	0
9/23/2024 4:11	63201	MGTN_T2	0	0	0	0	0	0	0.83	0.83	0	0	0	0	0	0
9/23/2024 4:30	10801	CHHI_T1	0	0	0	0	0	0	-0.93	-0.89	1	1	0	900	900	0
9/23/2024 7:20	66302	MCGO_T2	419	473	54	0.51	1.28	0.77	-1.43	-1.75	1	1	0	600	600	0
9/23/2024 7:30	21501	CEAV_T2	0	0	0	0	0	0	1.2	1.28	0	0	0	0	0	0
9/23/2024 8:18	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/23/2024 8:43	23902	EFMO_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
9/23/2024 9:03	15203	SFAR_T2	0	0	0	0	0	0	-1.29	-1.28	0	0	0	0	0	0
9/23/2024 9:05	15203	SFAR_T2	0	0	0	0	0	0	-1.29	-1.28	0	0	0	0	0	0
9/23/2024 9:08	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
9/23/2024 9:08	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
9/23/2024 9:12	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
9/23/2024 9:12	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
9/23/2024 9:13	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 9:18	22701	MINO_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	600	600	0
9/23/2024 9:19	17002	RIRO_T2	0	1	1	0	0.2	0.2	0.71	0.64	0	0	0	0	0	0
9/23/2024 9:20	65603	QVIL_T2	0	0	0	0	0	0	0.45	0.62	0	0	0	0	0	0
9/23/2024 9:21	24901	WHHA_T1	0	1	1	0	0	0	0.74	0.7	0	0	0	0	0	0
9/23/2024 9:23	24902	WHHA_T1	0	1	1	0	0	0	0.74	0.7	0	0	0	0	0	0
9/23/2024 9:24	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 9:25	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.4	0	0	0	0	0	0
9/23/2024 9:25	15703	TANN_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
9/23/2024 9:27	15704	TANN_T1	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
9/23/2024 9:27	15701	TANN_T1	1	2	1	4.8	2.7	-2.1	0	0	0	0	0	0	0	0
9/23/2024 9:28	22701	MINO_T1	0	0	0	0	0	0	-1	-0.99	1	1	0	600	600	0
9/23/2024 9:36	67503	WEWI_T2	1	1	0	8.6	9	0.4	0	0	0	0	0	0	0	0
9/23/2024 9:36	67502	WEWI_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
9/23/2024 9:37	67502	WEWI_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
9/23/2024 9:37	67503	WEWI_T2	1	1	0	8.6	9	0.4	0	0	0	0	0	0	0	0
9/23/2024 9:37	14801	TREI_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
9/23/2024 9:37	24902	WHHA_T1	0	1	1	0	0.1	0.1	0.7	0.73	0	0	0	0	0	0
9/23/2024 9:38	24902	WHHA_T1	0	1	1	0	0.1	0.1	0.7	0.73	0	0	0	0	0	0
9/23/2024 9:39	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
9/23/2024 9:39	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.36	0	0	0	0	0	0
9/23/2024 9:42	15203	SFAR_T2	0	0	0	0	0	0	-1.29	-1.28	0	0	0	0	0	0
9/23/2024 9:47	46101	MACI_T2	0	0	0	0	0	0	-0.88	-0.88	2	2	0	2400	2400	0
9/23/2024 9:59	46501	LOHA_T1	0	0	0	0	0	0	0.19	0.21	1	1	0	1200	1200	0
9/23/2024 9:59	46506	LOHA_T1	3	3	0	5.37	5.73	0.36	0	0	0	0	0	0	0	0
9/23/2024 10:00	17002	RIRO_T2	1	1	0	0.1	0.4	0.3	0.69	0.6	0	0	0	0	0	0
9/23/2024 10:00	66302	MCGO_T2	468	470	2	1.31	1.41	0.1	-1.81	-1.84	1	1	0	600	600	0
9/23/2024 10:00	59002	MIFF_T1	0	5	5	0	0.48	0.48	0	0	0	0	0	0	0	0
9/23/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
9/23/2024 10:00	28102	TWLA_T2	13	11	-2	0.51	0.42	-0.09	0.19	0.18	0	0	0	0	0	0
9/23/2024 10:00	52402	GRPA_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
9/23/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
9/23/2024 10:00	28805	LAKE_T1	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
9/23/2024 10:00	59003	MIFF_T1	0	1	1	0	0.6	0.6	-0.14	-1.27	0	0	0	0	0	0
9/23/2024 10:00	52403	GRPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 10:00	67503	WEWI_T2	1	1	0	8.8	9.1	0.3	-0.23	-0.23	0	0	0	0	0	0
9/23/2024 10:02	15604	NSTR_T1	0	0	0	0	0	0	0.11	0.16	0	0	0	0	0	0
9/23/2024 10:04	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
9/23/2024 10:04	46506	LOHA_T1	3	3	0	5.3	5.77	0.47	0	0	0	0	0	0	0	0
9/23/2024 10:05	15604	NSTR_T1	0	0	0	0	0	0	0.11	0.16	0	0	0	0	0	0
9/23/2024 10:08	21501	CEAV_T2	0	0	0	0	0	0	0.41	0.44	1	1	0	1200	1200	0
9/23/2024 10:08	14801	TREI_T2	0	0	0	0	0	0	0	0.39	0	0	0	0	0	0
9/23/2024 10:08	15203	SFAR_T2	0	0	0	0	0	0	-1.23	-1.21	0	0	0	0	0	0
9/23/2024 10:09	15701	TANN_T1	3	1	-2	1.8	5	3.2	0	0	0	0	0	0	0	0
9/23/2024 10:09	15704	TANN_T1	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
9/23/2024 10:10	15702	TANN_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
9/23/2024 10:10	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
9/23/2024 10:11	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
9/23/2024 10:11	15702	TANN_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
9/23/2024 10:12	10805	CHHI_T2	1	1	0	8.6	7.8	-0.8	-0.66	-0.44	1	1	0	600	600	0
9/23/2024 10:18	46101	MACI_T2	0	0	0	0	0	0	-1.74	-1.74	4	4	0	4800	4800	0
9/23/2024 10:20	14201	EALL_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
9/23/2024 10:22	15203	SFAR_T2	0	0	0	0	0	0	-1.21	-1.25	0	0	0	0	0	0
9/23/2024 10:24	24902	WHHA_T1	1	1	0	0.4	0.1	-0.3	0.75	0.71	0	0	0	0	0	0
9/23/2024 10:26	24902	WHHA_T1	1	1	0	0.4	0.1	-0.3	0.75	0.71	0	0	0	0	0	0
9/23/2024 10:28	25402	LAHA_T2	0	0	0	0	0	0	-0.86	-0.78	0	0	0	0	0	0
9/23/2024 10:43	10801	CHHI_T1	0	0	0	0	0	0	-0.72	-0.74	1	1	0	900	900	0
9/23/2024 10:54	16101	BING_T2	0	0	0	0	0	0	0.38	0.41	0	0	0	0	0	0
9/23/2024 10:57	28703	HAML_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/23/2024 10:57	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/23/2024 11:00	42902	MIDD_T2	0	0	0	0	0	0	-0.87	-0.89	1	1	0	600	600	0
9/23/2024 11:02	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.34	0	0	0	0	0	0
9/23/2024 11:02	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
9/23/2024 11:03	20601	GRWO_T2	1	5	4	1	0.8	-0.2	0	0	0	0	0	0	0	0
9/23/2024 11:03	20603	GRWO_T2	0	0	0	0	0	0	-0.61	-0.63	1	1	0	900	900	0
9/23/2024 11:04	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 11:06	42902	MIDD_T2	0	0	0	0	0	0	-0.89	-0.92	1	1	0	600	600	0
9/23/2024 11:08	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 11:10	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 11:13	53501	EVIL_T2	2	2	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
9/23/2024 11:13	63501	HEID_TBK1-2	0	0	0	0	0	0	0.15	0.14	1	1	0	900	900	0
9/23/2024 11:13	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 11:13	53502	EVIL_T2	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1200	1200	0
9/23/2024 11:19	13905	SEID_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
9/23/2024 11:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 11:22	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/23/2024 11:29	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 11:31	58401	MORO_T1	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
9/23/2024 11:44	26704	HEML_T2	1	0	-1	0.1	0	-0.1	-0.84	-0.84	1	1	0	1200	1200	0
9/23/2024 11:53	67503	WEWI_T2	1	1	0	8.8	8.8	0	0	0	0	0	0	0	0	0
9/23/2024 11:53	67502	WEWI_T2	0	0	0	0	0	0	-0.23	-0.29	0	0	0	0	0	0
9/23/2024 11:56	67502	WEWI_T2	0	0	0	0	0	0	-0.23	-0.29	0	0	0	0	0	0
9/23/2024 11:56	67503	WEWI_T2	1	1	0	8.8	8.8	0	0	0	0	0	0	0	0	0
9/23/2024 12:02	55002	NEWP_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
9/23/2024 12:02	55002	NEWP_T1	5	6	1	0.74	0.85	0.11	0	0	0	0	0	0	0	0
9/23/2024 12:03	46505	LOHA_T1	0	0	0	0	0	0	-0.24	-0.25	1	1	0	600	600	0
9/23/2024 12:03	64701	LITI_T1	0	0	0	0	0	0	0.57	0.41	0	0	0	0	0	0
9/23/2024 12:03	46506	LOHA_T1	3	3	0	5.57	5.37	-0.2	0	0	0	0	0	0	0	0
9/23/2024 12:04	63601	LETO_T1	2	2	0	0.2	0.45	0.25	0.66	0.63	1	1	0	900	900	0
9/23/2024 12:05	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
9/23/2024 12:05	46506	LOHA_T1	3	3	0	5.57	5.37	-0.2	0	0	0	0	0	0	0	0
9/23/2024 12:07	67201	TEHI_T1	0	0	0	0	0	0	0.43	0.37	2	2	0	1500	1500	0
9/23/2024 12:11	59101	WALK_T2	1	0	-1	0.4	0	-0.4	1.52	1.41	1	1	0	600	600	0
9/23/2024 12:11	67203	TEHI_T1	0	0	0	0	0	0	2.33	2.18	3	3	0	2100	2100	0
9/23/2024 12:15	46501	LOHA_T1	0	0	0	0	0	0	0.25	0.23	1	1	0	1200	1200	0
9/23/2024 12:15	46506	LOHA_T1	3	3	0	5.37	5.3	-0.07	0	0	0	0	0	0	0	0
9/23/2024 12:27	43802	SWIL_T1	0	0	0	0	0	0	0	-0.04	2	2	0	1200	1200	0
9/23/2024 12:27	43801	SWIL_T1	2	2	0	2.7	2.7	0	0	0	0	0	0	0	0	0
9/23/2024 12:28	63305	GREE_T1	1	6	5	0.1	0.15	0.05	-1.79	-1.84	1	1	0	900	900	0
9/23/2024 12:28	63302	GREE_T1	0	0	0	0	0	0	-0.33	-0.22	0	0	0	0	0	0
9/23/2024 12:29	50834	WALN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 12:31	65205	PRIN_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/23/2024 12:31	63305	GREE_T1	4	2	-2	0.15	0.15	0	-1.79	-1.84	1	1	0	900	900	0
9/23/2024 12:33	55101	WERT_T1	0	0	0	0	0	0	-0.83	-0.79	2	2	0	1500	1500	0
9/23/2024 12:34	55002	NEWP_T1	6	6	0	0.78	0.88	0.1	0	0	0	0	0	0	0	0
9/23/2024 12:34	55001	NEWP_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
9/23/2024 12:35	47401	PENS_T1	0	0	0	0	0	0	-0.55	-0.58	0	0	0	0	0	0
9/23/2024 12:35	47402	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/23/2024 12:35	65603	QVIL_T2	0	0	0	0	0	0	0.41	0.5	0	0	0	0	0	0
9/23/2024 12:35	47403	PENS_T1	1	1	0	2.1	1.3	-0.8	0	0	0	0	0	0	0	0
9/23/2024 12:36	14404	SSLA_T1	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/23/2024 12:37	57401	SPAN_T1	2	2	0	0.5	0.5	0	-0.9	-0.89	1	1	0	600	600	0
9/23/2024 12:37	57403	SPAN_T1	145	152	7	0.27	0.29	0.02	0	0	0	0	0	0	0	0
9/23/2024 12:38	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/23/2024 12:38	67605	WARW_T1	19	20	1	0.51	0.49	-0.02	0	0	0	0	0	0	0	0
9/23/2024 12:39	57403	SPAN_T1	145	152	7	0.27	0.29	0.02	0.05	0.03	0	0	0	0	0	0
9/23/2024 12:39	57401	SPAN_T1	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/23/2024 12:39	14401	SSLA_T1	0	0	0	0	0	0	-0.37	-0.34	0	0	0	0	0	0
9/23/2024 12:46	55101	WERT_T1	0	0	0	0	0	0	-2.38	-2.2	6	6	0	4500	4500	0
9/23/2024 12:50	43304	WATS_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
9/23/2024 12:50	43301	WATS_T2	1	1	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
9/23/2024 12:51	43301	WATS_T2	1	1	0	1	0.1	-0.9	-0.63	-0.65	1	1	0	900	900	0
9/23/2024 12:52	43301	WATS_T2	1	1	0	1	0.1	-0.9	-0.63	-0.65	1	1	0	900	900	0
9/23/2024 12:54	43301	WATS_T2	1	1	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
9/23/2024 12:54	43304	WATS_T2	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
9/23/2024 12:56	43301	WATS_T2	1	1	0	1	0.1	-0.9	-0.63	-0.65	1	1	0	900	900	0
9/23/2024 13:11	54502	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
9/23/2024 13:11	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/23/2024 13:11	54503	ENOL_T2	0	0	0	0	0	0	-0.37	-0.35	1	1	0	600	600	0
9/23/2024 13:13	52002	LING_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/23/2024 13:13	52004	LING_T2	2	2	0	6	6.05	0.05	0.37	0.37	0	0	0	0	0	0
9/23/2024 13:14	61801	EELI_T2	0	0	0	0	0	0	-0.81	-0.83	1	1	0	600	600	0
9/23/2024 13:15	61801	EELI_T2	0	0	0	0	0	0	-0.81	-0.83	1	1	0	600	600	0
9/23/2024 13:20	24206	PROV_T4	1	1	0	2.8	3.2	0.4	0	0	0	0	0	0	0	0
9/23/2024 13:20	65207	PRIN_T4	1	1	0	0.4	0.7	0.3	0	0	2	2	0	1800	1800	0
9/23/2024 13:20	65206	PRIN_T4	1	1	0	3.1	0	-3.1	0	0	0	0	0	0	0	0
9/23/2024 13:20	24202	PROV_T4	0	1	1	0	1.7	1.7	-0.45	-0.44	1	1	0	1200	1200	0
9/23/2024 13:22	67503	WEWI_T2	1	1	0	8.8	9.2	0.4	-0.22	-0.21	0	0	0	0	0	0
9/23/2024 13:24	20401	ASHF_T2	4	4	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
9/23/2024 13:24	20403	ASHF_T2	20	4	-16	0.15	0.1	-0.05	0.24	0.36	0	0	0	0	0	0
9/23/2024 13:31	63601	LETO_T1	2	5	3	0.45	0.52	0.07	0.68	0.67	1	1	0	900	900	0
9/23/2024 13:31	55101	WERT_T1	0	0	0	0	0	0	-0.76	-0.63	2	2	0	1500	1500	0
9/23/2024 13:31	63602	LETO_T1	0	47	47	0	0.11	0.11	0	0	0	0	0	0	0	0
9/23/2024 13:34	64904	MILL_T1	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
9/23/2024 13:39	13502	MCMI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/23/2024 13:40	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/23/2024 13:40	67605	WARW_T1	22	22	0	0.53	0.52	-0.01	0	0	0	0	0	0	0	0
9/23/2024 13:41	22002	BOHE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/23/2024 13:41	22001	BOHE_T1	65	6	-59	0.13	0.12	-0.01	0.23	0.25	0	0	0	0	0	0
9/23/2024 13:41	22003	BOHE_T1	283	250	-33	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
9/23/2024 13:42	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/23/2024 13:43	61801	EELI_T2	0	0	0	0	0	0	-0.84	-0.81	1	1	0	600	600	0
9/23/2024 13:43	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/23/2024 13:47	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
9/23/2024 13:55	13101	NHAM_T1	0	0	0	0	0	0	-2.93	-2.73	2	2	0	2400	2400	0
9/23/2024 13:58	10705	CATA_T2	0	0	0	0	0	0	0.14	0.09	0	0	0	0	0	0
9/23/2024 13:58	10702	CATA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/23/2024 14:00	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
9/23/2024 14:00	16901	MECK_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/23/2024 14:00	63305	GREE_T1	4	1	-3	0.1	0.1	0	0	0	0	0	0	0	0	0
9/23/2024 14:00	63306	GREE_T1	0	0	0	0	0	0	-1.04	-1.05	0	0	0	0	0	0
9/23/2024 14:01	55102	WERT_T2	0	0	0	0	0	0	-0.56	-0.62	2	2	0	1200	1200	0
9/23/2024 14:03	16901	MECK_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/23/2024 14:03	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
9/23/2024 14:05	55002	NEWP_T1	6	6	0	0.85	0.82	-0.03	-0.24	-0.23	0	0	0	0	0	0
9/23/2024 14:06	67505	WEWI_T1	0	0	0	0	0	0	-0.15	-0.14	1	1	0	900	900	0
9/23/2024 14:08	67106	SPRI_T2	0	0	0	0	0	0	-1.16	-1.14	1	1	0	900	900	0
9/23/2024 14:08	46001	BERW_T1	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
9/23/2024 14:09	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/23/2024 14:09	40201	BEGA_T2	1	5	4	0.5	0.22	-0.28	0	0	0	0	0	0	0	0
9/23/2024 14:12	54505	ENOL_T2	1	1	0	0.8	0.8	0	-1.32	-1.34	1	1	0	600	600	0
9/23/2024 14:12	54502	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
9/23/2024 14:17	54502	ENOL_T2	1	2	1	0.9	0.45	-0.45	0	0	0	0	0	0	0	0
9/23/2024 14:17	54505	ENOL_T2	1	1	0	0.8	0.8	0	-1.32	-1.34	1	1	0	600	600	0
9/23/2024 14:17	55105	WERT_T1	0	0	0	0	0	0	-0.52	-0.52	1	1	0	900	900	0
9/23/2024 14:20	65207	PRIN_T4	5	5	0	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
9/23/2024 14:20	65206	PRIN_T4	1	0	-1	3.1	0	-3.1	0	0	0	0	0	0	0	0
9/23/2024 14:20	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 14:25	67604	WARW_T1	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
9/23/2024 14:25	46001	BERW_T1	0	0	0	0	0	0	-0.25	-0.35	0	0	0	0	0	0
9/23/2024 14:25	67605	WARW_T1	32	31	-1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
9/23/2024 14:26	67604	WARW_T1	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
9/23/2024 14:26	67603	WARW_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
9/23/2024 14:26	67605	WARW_T1	32	31	-1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
9/23/2024 14:26	46001	BERW_T1	0	0	0	0	0	0	-0.25	-0.35	0	0	0	0	0	0
9/23/2024 14:27	67605	WARW_T1	32	31	-1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
9/23/2024 14:27	67603	WARW_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
9/23/2024 14:28	54502	ENOL_T2	1	2	1	0.9	0.45	-0.45	0	0	0	0	0	0	0	0
9/23/2024 14:28	67603	WARW_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
9/23/2024 14:28	67605	WARW_T1	32	31	-1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
9/23/2024 14:28	54505	ENOL_T2	1	1	0	0.8	0.8	0	-1.34	-1.32	1	1	0	600	600	0
9/23/2024 14:30	15601	NSTR_T2	3	3	0	0.27	0.5	0.23	0	0	0	0	0	0	0	0
9/23/2024 14:30	15603	NSTR_T2	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
9/23/2024 14:33	55105	WERT_T1	0	0	0	0	0	0	-0.52	-0.54	1	1	0	900	900	0
9/23/2024 14:37	67605	WARW_T1	22	30	8	0.56	0.54	-0.02	-1.08	-1.07	0	0	0	0	0	0
9/23/2024 14:42	43301	WATS_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/23/2024 14:42	43302	WATS_T2	0	3	3	0	0.1	0.1	0.14	-0.07	2	2	0	1800	1800	0
9/23/2024 14:52	67106	SPRI_T2	0	0	0	0	0	0	-1.15	-1.16	1	1	0	900	900	0
9/23/2024 14:57	55105	WERT_T1	0	0	0	0	0	0	-0.51	-0.53	1	1	0	900	900	0
9/23/2024 15:04	46506	LOHA_T1	4	3	-1	4.4	6	1.6	0	0	0	0	0	0	0	0
9/23/2024 15:04	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
9/23/2024 15:04	46504	LOHA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/23/2024 15:06	57403	SPAN_T1	158	116	-42	0.42	0.27	-0.15	0.05	0.04	0	0	0	0	0	0
9/23/2024 15:06	57401	SPAN_T1	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/23/2024 15:07	50202	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 15:07	50105	HARR_T3	6	6	0	5.45	5.5	0.05	0	0	0	0	0	0	0	0
9/23/2024 15:07	50103	HARR_T3	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
9/23/2024 15:07	50201	HARR_T3	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/23/2024 15:07	50107	HARR_T3	1	1	0	6.2	6.6	0.4	0	0	0	0	0	0	0	0
9/23/2024 15:09	16301	ALPA_T1	0	0	0	0	0	0	0.17	0.1	0	0	0	0	0	0
9/23/2024 15:09	43302	WATS_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/23/2024 15:09	43301	WATS_T2	1	1	0	0.4	0.4	0	0.31	0.31	0	0	0	0	0	0
9/23/2024 15:11	54505	ENOL_T2	1	1	0	1	1	0	-1.35	-1.35	1	1	0	600	600	0
9/23/2024 15:11	54502	ENOL_T2	14	29	15	0.15	0.15	0	0	0	0	0	0	0	0	0
9/23/2024 15:11	16301	ALPA_T1	0	0	0	0	0	0	0.17	0.1	0	0	0	0	0	0
9/23/2024 15:12	43302	WATS_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/23/2024 15:12	43301	WATS_T2	1	1	0	0.4	0.4	0	0.31	0.31	0	0	0	0	0	0
9/23/2024 15:12	16301	ALPA_T1	0	0	0	0	0	0	0.51	0.3	0	0	0	0	0	0
9/23/2024 15:13	43302	WATS_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/23/2024 15:13	43301	WATS_T2	1	1	0	0.4	0.4	0	0.31	0.31	0	0	0	0	0	0
9/23/2024 15:13	16301	ALPA_T1	0	0	0	0	0	0	0.17	0.1	0	0	0	0	0	0
9/23/2024 15:16	54502	ENOL_T2	29	1	-28	0.14	1	0.86	0	0	0	0	0	0	0	0
9/23/2024 15:16	54505	ENOL_T2	1	1	0	1	0.9	-0.1	-1.35	-1.35	1	1	0	600	600	0
9/23/2024 15:18	46802	HEPB_T1	1	1	0	1.6	1.5	-0.1	-0.33	-0.28	0	0	0	0	0	0
9/23/2024 15:26	40802	EXCH_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/23/2024 15:34	52001	LING_T1	0	0	0	0	0	0	0.16	0.19	0	0	0	0	0	0
9/23/2024 15:34	46602	LACR_T1	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
9/23/2024 15:40	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 15:42	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 15:47	50501	MECH_T1	4	4	0	0.28	0.88	0.6	0	0	0	0	0	0	0	0
9/23/2024 15:47	50502	MECH_T1	1	95	94	2.8	0.28	-2.52	0	0	0	0	0	0	0	0
9/23/2024 15:48	50502	MECH_T1	1	95	94	2.8	0.28	-2.52	-0.34	-0.34	1	1	0	900	900	0
9/23/2024 15:48	50501	MECH_T1	4	4	0	0.28	0.88	0.6	0	0	0	0	0	0	0	0
9/23/2024 15:50	65001	NEFF_T2	0	104	104	0	0.15	0.15	0	0	0	0	0	0	0	0
9/23/2024 15:50	65003	NEFF_T2	4	71	67	0.1	0.15	0.05	-1.41	-1.42	2	2	0	1800	1800	0
9/23/2024 15:54	45601	WOOL_T1	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
9/23/2024 15:54	45602	WOOL_T1	14	54	40	0.28	0.21	-0.07	0.57	0.57	0	0	0	0	0	0
9/23/2024 15:59	23403	HONE_T1	0	0	0	0	0	0	-0.68	-0.74	0	0	0	0	0	0
9/23/2024 16:05	64902	MILL_T2	0	0	0	0	0	0	-0.68	-0.71	1	1	0	900	900	0
9/23/2024 16:06	13303	ORVI_T1	0	0	0	0	0	0	3.16	3.36	0	0	0	0	0	0
9/23/2024 16:06	44505	HAMI_T2	0	0	0	0	0	0	0.14	0.22	0	0	0	0	0	0
9/23/2024 16:06	44502	HAMI_T2	1	1	0	3.1	3.4	0.3	0	0	0	0	0	0	0	0
9/23/2024 16:07	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 16:10	50105	HARR_T3	6	6	0	5.53	5.28	-0.25	0	0	0	0	0	0	0	0
9/23/2024 16:10	50202	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 16:10	50103	HARR_T3	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
9/23/2024 16:10	50107	HARR_T3	1	1	0	6.1	5.7	-0.4	0	0	0	0	0	0	0	0
9/23/2024 16:10	50201	HARR_T3	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
9/23/2024 16:15	44801	EDAN_T2	293	309	16	0.71	0.54	-0.17	0	0	0	0	0	0	0	0
9/23/2024 16:15	44802	EDAN_T2	1	1	0	0.1	0.1	0	-0.65	-0.69	0	0	0	0	0	0
9/23/2024 16:25	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 16:28	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 16:40	24901	WHHA_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
9/23/2024 16:40	24902	WHHA_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/23/2024 16:40	10602	BLGL_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
9/23/2024 16:45	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
9/23/2024 16:45	64201	KINZ_T1	0	0	0	0	0	0	-0.76	-0.8	4	4	0	2100	2100	0
9/23/2024 16:45	64202	KINZ_T1	3	3	0	0.97	0.53	-0.44	0	0	0	0	0	0	0	0
9/23/2024 16:49	64202	KINZ_T1	3	3	0	0.97	0.53	-0.44	0	0	0	0	0	0	0	0
9/23/2024 16:49	64201	KINZ_T1	0	0	0	0	0	0	-0.76	-0.8	4	4	0	2100	2100	0
9/23/2024 16:49	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
9/23/2024 17:12	46001	BERW_T1	0	0	0	0	0	0	-0.24	-0.57	0	0	0	0	0	0
9/23/2024 19:35	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/23/2024 19:40	65603	QVIL_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
9/23/2024 20:12	14201	EALL_T1	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
9/23/2024 20:22	46101	MACI_T2	0	0	0	0	0	0	-0.59	-0.57	1	1	0	1200	1200	0
9/23/2024 20:25	67503	WEWI_T2	1	1	0	8	8.4	0.4	0	0	0	0	0	0	0	0
9/23/2024 20:25	67502	WEWI_T2	63	98	35	0.17	0.19	0.02	-1.45	-1.43	1	1	0	900	900	0
9/23/2024 20:31	63601	LETO_T1	4	4	0	0.38	0.38	0	0.59	0.54	1	1	0	900	900	0
9/23/2024 20:31	63602	LETO_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
9/23/2024 20:32	55101	WERT_T1	0	0	0	0	0	0	-1.4	-1.4	2	2	0	1500	1500	0
9/23/2024 20:33	43302	WATS_T2	4	4	0	0.78	0.9	0.12	0	0	0	0	0	0	0	0
9/23/2024 20:33	43301	WATS_T2	0	1	1	0	0.1	0.1	0.33	0.35	0	0	0	0	0	0
9/23/2024 20:34	67502	WEWI_T2	98	0	-98	0.19	0	-0.19	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/23/2024 20:34	43301	WATS_T2	0	1	1	0	0.1	0.1	0.33	0.35	0	0	0	0	0	0
9/23/2024 20:34	67503	WEWI_T2	1	1	0	8.4	7.8	-0.6	-0.23	-0.07	0	0	0	0	0	0
9/23/2024 20:34	43302	WATS_T2	4	4	0	0.78	0.9	0.12	0	0	0	0	0	0	0	0
9/23/2024 20:35	65207	PRIN_T4	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
9/23/2024 20:35	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/23/2024 20:35	47403	PENS_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/23/2024 20:35	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 20:35	28703	HAML_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/23/2024 20:35	47401	PENS_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
9/23/2024 20:35	65206	PRIN_T4	3	1	-2	1.93	0	-1.93	0	0	0	0	0	0	0	0
9/23/2024 20:37	64701	LITI_T1	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
9/23/2024 20:38	67503	WEWI_T2	1	1	0	8.4	7.8	-0.6	0	0	0	0	0	0	0	0
9/23/2024 20:38	43301	WATS_T2	0	1	1	0	0.1	0.1	0.35	0.32	0	0	0	0	0	0
9/23/2024 20:38	46802	HEPB_T1	1	1	0	0.9	1	0.1	-0.27	-0.3	0	0	0	0	0	0
9/23/2024 20:38	43302	WATS_T2	4	4	0	0.78	0.9	0.12	0	0	0	0	0	0	0	0
9/23/2024 20:38	67502	WEWI_T2	98	0	-98	0.19	0	-0.19	-1.43	-0.48	1	0	-1	900	0	-900
9/23/2024 20:39	15704	TANN_T1	0	0	0	0	0	0	-0.52	-0.28	0	0	0	0	0	0
9/23/2024 20:39	65206	PRIN_T4	3	1	-2	1.93	0	-1.93	0	0	0	0	0	0	0	0
9/23/2024 20:39	67106	SPRI_T2	0	0	0	0	0	0	-1.28	-1.24	1	1	0	900	900	0
9/23/2024 20:39	65207	PRIN_T4	1	1	0	1	1.1	0.1	0	0	1	1	0	1200	1200	0
9/23/2024 20:39	15701	TANN_T1	2	9	7	2.75	0.73	-2.02	0	0	0	0	0	0	0	0
9/23/2024 20:40	16301	ALPA_T1	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
9/23/2024 20:40	24902	WHHA_T1	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
9/23/2024 20:40	59101	WALK_T2	0	0	0	0	0	0	1.33	1.32	0	0	0	0	0	0
9/23/2024 20:40	65205	PRIN_T1	4	15	11	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
9/23/2024 20:40	64201	KINZ_T1	4	2	-2	0.28	0.2	-0.08	-0.53	-0.52	3	3	0	1500	1500	0
9/23/2024 20:40	64204	KINZ_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
9/23/2024 20:40	26704	HEML_T2	0	0	0	0	0	0	-0.88	-0.89	1	1	0	1200	1200	0
9/23/2024 20:40	61801	EELI_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
9/23/2024 20:40	54505	ENOL_T2	1	1	0	1.1	1	-0.1	-1.28	-1.31	1	1	0	600	600	0
9/23/2024 20:40	67203	TEHI_T1	0	0	0	0	0	0	2.1	2.23	2	2	0	1500	1500	0
9/23/2024 20:40	64202	KINZ_T1	3	3	0	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
9/23/2024 20:40	54502	ENOL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/23/2024 20:40	15604	NSTR_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
9/23/2024 20:41	24206	PROV_T4	2	4	2	0.65	0.13	-0.52	0	0	0	0	0	0	0	0
9/23/2024 20:41	64904	MILL_T1	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
9/23/2024 20:41	24202	PROV_T4	6	24	18	0.1	0.16	0.06	-0.44	-0.45	1	1	0	1200	1200	0
9/23/2024 20:42	16902	MECK_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
9/23/2024 20:42	14404	SSLA_T1	7	66	59	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/23/2024 20:42	15604	NSTR_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
9/23/2024 20:42	40201	BEGA_T2	3	4	1	0.4	0.18	-0.22	0	0	0	0	0	0	0	0
9/23/2024 20:42	16101	BING_T2	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
9/23/2024 20:42	14401	SSLA_T1	9	9	0	0.19	0.24	0.05	-0.51	-0.52	0	0	0	0	0	0
9/23/2024 20:42	14402	SSLA_T1	132	178	46	0.16	0.19	0.03	0	0	0	0	0	0	0	0
9/23/2024 20:42	14403	SSLA_T1	1	8	7	0.1	0.14	0.04	0	0	0	0	0	0	0	0
9/23/2024 20:43	64902	MILL_T2	0	0	0	0	0	0	-0.7	-0.65	1	1	0	900	900	0
9/23/2024 20:43	14801	TREI_T2	11	32	21	0.17	0.13	-0.04	0.41	0.41	0	0	0	0	0	0
9/23/2024 20:43	14802	TREI_T2	11	10	-1	0.15	0.18	0.03	0	0	0	0	0	0	0	0
9/23/2024 20:44	67605	WARW_T1	14	14	0	0.38	0.54	0.16	0	0	0	0	0	0	0	0
9/23/2024 20:44	67604	WARW_T1	0	0	0	0	0	0	1.03	1.01	0	0	0	0	0	0
9/23/2024 20:44	15203	SFAR_T2	0	0	0	0	0	0	-1.25	-1.25	0	0	0	0	0	0
9/23/2024 20:44	46602	LACR_T1	12	2	-10	0.15	0.1	-0.05	-0.98	-0.88	0	0	0	0	0	0
9/23/2024 20:44	25402	LAHA_T2	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
9/23/2024 20:44	16902	MECK_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
9/23/2024 20:44	52001	LING_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
9/23/2024 20:44	25404	LAHA_T2	11	9	-2	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
9/23/2024 20:44	13101	NHAM_T1	0	0	0	0	0	0	-3.18	-3.14	2	2	0	2400	2400	0
9/23/2024 20:45	63501	HEID_TBK1-2	1	34	33	1.6	0.31	-1.29	0.43	0.47	0	0	0	0	0	0
9/23/2024 20:45	15702	TANN_T2	70	180	110	0.21	0.28	0.07	-0.42	-0.42	0	0	0	0	0	0
9/23/2024 20:45	17002	RIRO_T2	0	106	106	0	0.16	0.16	0.33	0.34	0	0	0	0	0	0
9/23/2024 20:45	15703	TANN_T2	1	4	3	4.8	1.28	-3.52	0	0	0	0	0	0	0	0
9/23/2024 20:45	67605	WARW_T1	14	16	2	0.46	0.58	0.12	0	0	0	0	0	0	0	0
9/23/2024 20:45	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
9/23/2024 20:45	67505	WEWI_T1	0	0	0	0	0	0	-0.17	-0.17	1	1	0	900	900	0
9/23/2024 20:46	54505	ENOL_T2	1	1	0	1	1.1	0.1	-1.28	-1.31	1	1	0	600	600	0
9/23/2024 20:46	55001	NEWP_T1	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
9/23/2024 20:46	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
9/23/2024 20:46	54502	ENOL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/23/2024 20:46	67605	WARW_T1	14	16	2	0.46	0.58	0.12	0	0	0	0	0	0	0	0
9/23/2024 20:46	55002	NEWP_T1	6	6	0	0.85	1.1	0.25	0	0	0	0	0	0	0	0
9/23/2024 20:47	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 20:47	67604	WARW_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
9/23/2024 20:47	64201	KINZ_T1	1	5	4	0.3	0.42	0.12	-0.53	-0.52	3	3	0	1500	1500	0
9/23/2024 20:47	50202	HARR_T3	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
9/23/2024 20:47	50103	HARR_T3	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
9/23/2024 20:47	67605	WARW_T1	14	16	2	0.46	0.58	0.12	0	0	0	0	0	0	0	0
9/23/2024 20:47	63305	GREE_T1	10	14	4	0.33	0.31	-0.02	-4.23	-4.19	2	2	0	1800	1800	0
9/23/2024 20:47	50107	HARR_T3	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
9/23/2024 20:47	64204	KINZ_T1	1	6	5	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
9/23/2024 20:47	50201	HARR_T3	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/23/2024 20:47	10805	CHHI_T2	1	2	1	7.7	7.2	-0.5	-0.38	-0.65	0	0	0	0	0	0
9/23/2024 20:47	50105	HARR_T3	6	6	0	5.53	5.35	-0.18	0	0	0	0	0	0	0	0
9/23/2024 20:47	24902	WHHA_T1	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
9/23/2024 20:47	46001	BERW_T1	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
9/23/2024 20:47	64202	KINZ_T1	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
9/23/2024 20:48	45602	WOOL_T1	0	1	1	0	0.2	0.2	0.54	0.53	0	0	0	0	0	0
9/23/2024 20:48	50504	MECH_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
9/23/2024 20:48	15601	NSTR_T2	3	3	0	0.83	0.6	-0.23	0	0	0	0	0	0	0	0
9/23/2024 20:48	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/23/2024 20:48	16301	ALPA_T1	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
9/23/2024 20:48	50501	MECH_T1	4	4	0	1.33	1.38	0.05	0	0	0	0	0	0	0	0
9/23/2024 20:48	50506	MECH_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/23/2024 20:48	23403	HONE_T1	0	0	0	0	0	0	-0.72	-0.79	0	0	0	0	0	0
9/23/2024 20:48	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/23/2024 20:48	15603	NSTR_T2	0	10	10	0	0.11	0.11	-0.3	-0.31	0	0	0	0	0	0
9/23/2024 20:48	50502	MECH_T1	180	212	32	0.59	0.62	0.03	0	0	0	0	0	0	0	0
9/23/2024 20:48	67605	WARW_T1	14	16	2	0.46	0.58	0.12	-1.16	-1.18	0	0	0	0	0	0
9/23/2024 20:48	67106	SPRI_T2	0	0	0	0	0	0	-1.28	-1.24	1	1	0	900	900	0
9/23/2024 20:49	55001	NEWP_T1	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
9/23/2024 20:49	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
9/23/2024 20:49	65003	NEFF_T2	0	1	1	0	0.1	0.1	-0.71	-0.77	1	1	0	600	600	0
9/23/2024 20:49	65001	NEFF_T2	0	108	108	0	0.16	0.16	0	0	0	0	0	0	0	0
9/23/2024 20:49	67605	WARW_T1	14	16	2	0.46	0.58	0.12	0	0	0	0	0	0	0	0
9/23/2024 20:49	22003	BOHE_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/23/2024 20:49	22001	BOHE_T1	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
9/23/2024 20:49	61801	EELI_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
9/23/2024 20:49	55002	NEWP_T1	6	6	0	0.85	1.1	0.25	-0.28	-0.26	0	0	0	0	0	0
9/23/2024 20:50	63305	GREE_T1	10	14	4	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
9/23/2024 20:50	55105	WERT_T1	0	0	0	0	0	0	-0.52	-0.54	1	1	0	900	900	0
9/23/2024 20:50	63306	GREE_T1	0	0	0	0	0	0	-1.18	-1.15	0	0	0	0	0	0
9/23/2024 20:50	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 20:50	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 20:50	46501	LOHA_T1	0	0	0	0	0	0	0.1	0.12	1	1	0	1200	1200	0
9/23/2024 20:50	46504	LOHA_T1	3	1	-2	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/23/2024 20:50	46503	LOHA_T1	0	0	0	0	0	0	-1.26	-1.26	0	0	0	0	0	0
9/23/2024 20:50	40201	BEGA_T2	2	8	6	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/23/2024 20:50	46506	LOHA_T1	4	4	0	4.63	4.75	0.12	0	0	0	0	0	0	0	0
9/23/2024 20:51	55101	WERT_T1	0	0	0	0	0	0	-1.4	-1.43	2	2	0	1500	1500	0
9/23/2024 20:51	42903	MIDD_T2	2	2	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
9/23/2024 20:51	15203	SFAR_T2	0	0	0	0	0	0	-1.25	-1.24	0	0	0	0	0	0
9/23/2024 20:51	15703	TANN_T2	1	4	3	4.8	1.28	-3.52	0	0	0	0	0	0	0	0
9/23/2024 20:51	55102	WERT_T2	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
9/23/2024 20:51	15702	TANN_T2	70	180	110	0.21	0.28	0.07	-0.42	-0.39	0	0	0	0	0	0
9/23/2024 20:51	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 20:51	54505	ENOL_T2	1	1	0	1	1.1	0.1	-1.28	-1.31	1	1	0	600	600	0
9/23/2024 20:51	40802	EXCH_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
9/23/2024 20:51	54502	ENOL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/23/2024 20:51	42902	MIDD_T2	0	0	0	0	0	0	-0.37	-0.32	0	0	0	0	0	0
9/23/2024 20:52	63305	GREE_T1	10	14	4	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
9/23/2024 20:52	54502	ENOL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/23/2024 20:52	16301	ALPA_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
9/23/2024 20:52	10801	CHHI_T1	0	0	0	0	0	0	-0.93	-0.92	1	1	0	900	900	0
9/23/2024 20:52	63302	GREE_T1	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
9/23/2024 20:52	61801	EELI_T2	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
9/23/2024 20:52	46001	BERW_T1	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
9/23/2024 20:52	54505	ENOL_T2	1	1	0	1	1.1	0.1	-1.31	-1.31	1	1	0	600	600	0
9/23/2024 20:52	16902	MECK_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
9/23/2024 20:52	10602	BLGL_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
9/23/2024 20:53	66502	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/23/2024 20:53	43304	WATS_T2	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
9/23/2024 20:53	10705	CATA_T2	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
9/23/2024 20:53	46001	BERW_T1	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
9/23/2024 20:53	10702	CATA_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/23/2024 20:53	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
9/23/2024 20:53	66505	SMAN_T2	3	3	0	0.7	1	0.3	0	0	0	0	0	0	0	0
9/23/2024 20:53	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/23/2024 20:53	43301	WATS_T2	0	1	1	0	0.5	0.5	0.32	0.32	0	0	0	0	0	0
9/23/2024 20:53	67604	WARW_T1	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
9/23/2024 20:53	67605	WARW_T1	14	16	2	0.46	0.58	0.12	0	0	0	0	0	0	0	0
9/23/2024 20:53	54503	ENOL_T2	0	0	0	0	0	0	-0.41	-0.39	1	1	0	600	600	0
9/23/2024 20:53	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 20:53	66501	SMAN_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
9/23/2024 20:53	54502	ENOL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/23/2024 20:53	43302	WATS_T2	4	4	0	0.75	1.08	0.33	0	0	0	0	0	0	0	0
9/23/2024 20:54	16301	ALPA_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
9/23/2024 20:54	43301	WATS_T2	0	1	1	0	0.5	0.5	0.32	0.32	0	0	0	0	0	0
9/23/2024 20:54	50834	WALN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2024 20:54	55101	WERT_T1	0	0	0	0	0	0	-1.43	-0.78	2	1	-1	1500	900	-600
9/23/2024 20:54	13303	ORVI_T1	0	0	0	0	0	0	0.91	0.85	0	0	0	0	0	0
9/23/2024 20:54	43302	WATS_T2	4	4	0	0.75	1.08	0.33	0	0	0	0	0	0	0	0
9/23/2024 20:55	46505	LOHA_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
9/23/2024 20:55	14402	SSLA_T1	90	172	82	0.13	0.19	0.06	0	0	0	0	0	0	0	0
9/23/2024 20:55	46504	LOHA_T1	3	1	-2	0.2	0.5	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/23/2024 20:55	15703	TANN_T2	1	4	3	4.8	1.28	-3.52	0	0	0	0	0	0	0	0
9/23/2024 20:55	52002	LING_T2	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
9/23/2024 20:55	52004	LING_T2	2	3	1	6.7	4.57	-2.13	0.11	0.12	0	0	0	0	0	0
9/23/2024 20:55	16301	ALPA_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
9/23/2024 20:55	52006	LING_T2	2	2	0	0.95	1.2	0.25	0	0	0	0	0	0	0	0
9/23/2024 20:55	57403	SPAN_T1	33	59	26	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
9/23/2024 20:55	14401	SSLA_T1	8	9	1	0.2	0.24	0.04	0	0	0	0	0	0	0	0
9/23/2024 20:55	43302	WATS_T2	4	4	0	0.75	1.08	0.33	0	0	0	0	0	0	0	0
9/23/2024 20:55	14404	SSLA_T1	35	64	29	0.1	0.15	0.05	-0.05	-0.1	0	0	0	0	0	0
9/23/2024 20:55	15702	TANN_T2	70	180	110	0.21	0.28	0.07	-0.42	-0.39	0	0	0	0	0	0
9/23/2024 20:55	57401	SPAN_T1	2	14	12	0.9	0.26	-0.64	-0.88	-0.96	1	1	0	600	600	0
9/23/2024 20:55	13303	ORVI_T1	0	0	0	0	0	0	0.91	0.85	0	0	0	0	0	0
9/23/2024 20:55	46506	LOHA_T1	4	4	0	4.63	4.75	0.12	0	0	0	0	0	0	0	0
9/23/2024 20:55	13502	MCMI_T1	5	32	27	0.14	0.18	0.04	0	0	0	0	0	0	0	0
9/23/2024 20:55	43301	WATS_T2	0	1	1	0	0.5	0.5	0.32	0.32	0	0	0	0	0	0
9/23/2024 20:55	14403	SSLA_T1	2	8	6	0.1	0.14	0.04	0	0	0	0	0	0	0	0
9/23/2024 20:56	57403	SPAN_T1	33	59	26	0.28	0.26	-0.02	0.04	0.04	0	0	0	0	0	0
9/23/2024 20:56	57401	SPAN_T1	2	14	12	0.9	0.26	-0.64	0	0	0	0	0	0	0	0
9/23/2024 20:56	55101	WERT_T1	0	0	0	0	0	0	-1.43	-0.78	2	1	-1	1500	900	-600
9/23/2024 20:56	20402	ASHF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/23/2024 20:56	20401	ASHF_T2	22	53	31	0.32	0.23	-0.09	0	0	0	0	0	0	0	0
9/23/2024 20:56	20403	ASHF_T2	6	6	0	0.12	0.13	0.01	0.05	0.04	0	0	0	0	0	0
9/23/2024 20:57	24901	WHHA_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
9/23/2024 20:57	67201	TEHI_T1	0	0	0	0	0	0	0	-0.02	1	1	0	900	900	0
9/23/2024 20:57	20601	GRWO_T2	5	33	28	0.18	0.14	-0.04	0	0	0	0	0	0	0	0
9/23/2024 20:57	20603	GRWO_T2	10	18	8	0.13	0.18	0.05	0.34	0.33	0	0	0	0	0	0
9/23/2024 20:58	44802	EDAN_T2	0	1	1	0	0	0	-0.75	-0.8	0	0	0	0	0	0
9/23/2024 20:58	44801	EDAN_T2	163	303	140	0.45	0.56	0.11	0	0	0	0	0	0	0	0
9/23/2024 20:59	21501	CEAV_T2	0	0	0	0	0	0	1.16	1.13	0	0	0	0	0	0
9/23/2024 20:59	16301	ALPA_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
9/23/2024 21:00	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.61	0	0	0	0	0	0
9/23/2024 21:00	43801	SWIL_T1	28	51	23	0.41	0.34	-0.07	0	0	0	0	0	0	0	0
9/23/2024 21:00	43802	SWIL_T1	0	0	0	0	0	0	-0.08	-0.06	2	2	0	1200	1200	0
9/23/2024 21:00	46506	LOHA_T1	4	4	0	4.73	5.05	0.32	0	0	0	0	0	0	0	0
9/23/2024 21:00	13303	ORVI_T1	0	0	0	0	0	0	0.91	0.85	0	0	0	0	0	0
9/23/2024 21:00	46504	LOHA_T1	1	3	2	0.3	0.47	0.17	0	0	0	0	0	0	0	0
9/23/2024 21:08	13905	SEID_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
9/23/2024 21:36	43304	WATS_T2	0	0	0	0	0	0	-0.39	-0.33	0	0	0	0	0	0
9/23/2024 21:36	43302	WATS_T2	4	4	0	1.18	1.18	0	0	0	0	0	0	0	0	0
9/23/2024 21:36	43301	WATS_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/23/2024 22:31	46101	MACI_T2	0	0	0	0	0	0	0.6	0.57	0	0	0	0	0	0
9/24/2024 6:55	66302	MCGO_T2	5	2	-3	0.1	0.1	0	-1.01	-1.05	1	1	0	600	600	0
9/24/2024 7:39	21501	CEAV_T2	0	0	0	0	0	0	1.2	1.3	0	0	0	0	0	0
9/24/2024 8:37	14801	TREI_T2	76	70	-6	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
9/24/2024 8:37	14802	TREI_T2	17	12	-5	0.17	0.18	0.01	0.4	0.41	0	0	0	0	0	0
9/24/2024 8:39	67503	WEWI_T2	1	1	0	9.3	9.4	0.1	-0.24	-0.24	0	0	0	0	0	0
9/24/2024 8:40	14802	TREI_T2	17	12	-5	0.17	0.18	0.01	0.4	0.41	0	0	0	0	0	0
9/24/2024 8:40	14801	TREI_T2	76	70	-6	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
9/24/2024 8:50	10206	ALLE_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/24/2024 8:50	10102	ALLE_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
9/24/2024 8:50	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 8:51	10206	ALLE_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
9/24/2024 8:51	10102	ALLE_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
9/24/2024 8:51	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 9:01	20201	JERM_T1	0	0	0	0	0	0	-0.27	-0.41	2	2	0	2400	2400	0
9/24/2024 9:28	20601	GRWO_T2	4	7	3	0.23	0.1	-0.13	1.22	1.22	0	0	0	0	0	0
9/24/2024 9:36	15701	TANN_T1	1	1	0	4.7	4.7	0	0.18	0.24	0	0	0	0	0	0
9/24/2024 9:36	65604	QVIL_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
9/24/2024 9:41	60801	BUCK_T1	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
9/24/2024 9:41	60803	BUCK_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
9/24/2024 9:47	64802	MONE_T2	22	0	-22	0.1	0	-0.1	0.27	0.27	0	0	0	0	0	0
9/24/2024 9:47	64801	MONE_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
9/24/2024 9:50	64903	MILL_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
9/24/2024 9:54	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 9:59	64903	MILL_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
9/24/2024 10:00	28805	LAKE_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
9/24/2024 10:00	52402	GRPA_T2	3	4	1	0.23	0.48	0.25	0	0	0	0	0	0	0	0
9/24/2024 10:00	64903	MILL_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
9/24/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	0.6	-0.37	0	0	0	0	0	0
9/24/2024 10:00	40505	CRES_T1	0	1	1	0	0	0	0.51	0.55	0	0	0	0	0	0
9/24/2024 10:00	55105	WERT_T1	0	0	0	0	0	0	-0.55	-0.56	1	1	0	900	900	0
9/24/2024 10:00	59002	MIFF_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/24/2024 10:00	28102	TWLA_T2	8	12	4	0.31	0.48	0.17	0.19	0.18	0	0	0	0	0	0
9/24/2024 10:00	52403	GRPA_T2	1	1	0	0.6	1.8	1.2	0	0	0	0	0	0	0	0
9/24/2024 10:04	12802	MICK_T1	0	0	0	0	0	0	-0.96	-0.95	0	0	0	0	0	0
9/24/2024 10:07	67502	WEWI_T2	0	1	1	0	0.2	0.2	-0.26	-0.24	0	0	0	0	0	0
9/24/2024 10:07	67503	WEWI_T2	1	1	0	9.4	9.3	-0.1	-0.22	-0.26	0	0	0	0	0	0
9/24/2024 10:08	67503	WEWI_T2	1	1	0	9.4	9.3	-0.1	-0.22	-0.26	0	0	0	0	0	0
9/24/2024 10:08	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/24/2024 10:08	15701	TANN_T1	1	1	0	4.7	4.8	0.1	0.22	0.23	0	0	0	0	0	0
9/24/2024 10:08	65604	QVIL_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
9/24/2024 10:08	67505	WEWI_T1	0	0	0	0	0	0	-0.18	-0.16	1	1	0	900	900	0
9/24/2024 10:09	67503	WEWI_T2	1	1	0	9.4	9.3	-0.1	-0.22	-0.26	0	0	0	0	0	0
9/24/2024 10:09	67505	WEWI_T1	0	0	0	0	0	0	-0.18	-0.16	1	1	0	900	900	0
9/24/2024 10:09	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	-0.26	0	0	0	0	0	0
9/24/2024 10:10	10801	CHHI_T1	0	1	1	0	0.1	0.1	-0.73	-0.73	1	1	0	900	900	0
9/24/2024 10:10	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/24/2024 10:11	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/24/2024 10:11	54502	ENOL_T2	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
9/24/2024 10:11	54505	ENOL_T2	1	1	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
9/24/2024 10:13	60803	BUCK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 10:13	60801	BUCK_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
9/24/2024 10:14	67503	WEWI_T2	1	1	0	9.4	9.3	-0.1	-0.22	-0.26	0	0	0	0	0	0
9/24/2024 10:14	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/24/2024 10:15	54502	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
9/24/2024 10:15	54505	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
9/24/2024 10:15	54501	ENOL_T2	0	1	1	0	0.1	0.1	0.11	0.16	0	0	0	0	0	0
9/24/2024 10:17	12802	MICK_T1	0	0	0	0	0	0	-0.95	-0.97	0	0	0	0	0	0
9/24/2024 10:18	25402	LAHA_T2	0	0	0	0	0	0	-1.7	-1.57	0	0	0	0	0	0
9/24/2024 10:18	25404	LAHA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/24/2024 10:19	65502	MOJO_T2	0	0	0	0	0	0	-0.47	-0.42	1	1	0	900	900	0
9/24/2024 10:20	12802	MICK_T1	0	0	0	0	0	0	0.95	-0.97	0	0	0	0	0	0
9/24/2024 10:20	65502	MOJO_T2	0	0	0	0	0	0	-0.47	-0.42	1	1	0	900	900	0
9/24/2024 10:21	65206	PRIN_T4	2	1	-1	5.4	1.8	-3.6	0	0	0	0	0	0	0	0
9/24/2024 10:21	66502	SMAN_T2	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
9/24/2024 10:21	65207	PRIN_T4	1	1	0	0.5	0.5	0	0	0	2	2	0	1800	1800	0
9/24/2024 10:21	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.42	0	0	0	0	0	0
9/24/2024 10:21	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
9/24/2024 10:23	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 10:24	43301	WATS_T2	1	1	0	1.3	1.4	0.1	-0.67	-0.65	1	1	0	900	900	0
9/24/2024 10:24	43302	WATS_T2	4	1	-3	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
9/24/2024 10:26	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 10:27	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 10:28	11203	ELHE_T1	0	0	0	0	0	0	1.04	1.03	0	0	0	0	0	0
9/24/2024 10:29	41502	FAIR_T2	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
9/24/2024 10:32	45802	HEGI_T2	11	84	73	0.29	0.31	0.02	1.45	1.55	0	0	0	0	0	0
9/24/2024 10:32	65503	MOJO_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
9/24/2024 10:38	16301	ALPA_T1	0	0	0	0	0	0	0.12	0.05	0	0	0	0	0	0
9/24/2024 10:39	16301	ALPA_T1	0	0	0	0	0	0	0.12	0.05	0	0	0	0	0	0
9/24/2024 10:39	55105	WERT_T1	0	0	0	0	0	0	-0.56	-0.53	1	1	0	900	900	0
9/24/2024 10:41	16301	ALPA_T1	0	0	0	0	0	0	0.12	0.05	0	0	0	0	0	0
9/24/2024 10:41	55102	WERT_T2	0	0	0	0	0	0	-1.65	-1.68	2	2	0	1200	1200	0
9/24/2024 10:43	16301	ALPA_T1	0	0	0	0	0	0	0.24	0.11	0	0	0	0	0	0
9/24/2024 10:45	54505	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
9/24/2024 10:45	54502	ENOL_T2	1	1	0	0.8	0.7	-0.1	-1.4	-1.42	0	0	0	0	0	0
9/24/2024 10:46	54505	ENOL_T2	1	1	0	1	0.8	-0.2	-1.36	-1.38	1	1	0	600	600	0
9/24/2024 10:46	54502	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
9/24/2024 10:47	15604	NSTR_T1	0	0	0	0	0	0	0.16	0.07	0	0	0	0	0	0
9/24/2024 10:48	15604	NSTR_T1	0	0	0	0	0	0	0.16	0.07	0	0	0	0	0	0
9/24/2024 10:48	54502	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
9/24/2024 10:48	65503	MOJO_T2	0	0	0	0	0	0	0	-0.94	0	1	1	0	900	900
9/24/2024 10:48	54505	ENOL_T2	1	1	0	1	0.8	-0.2	-2.72	-2.76	2	2	0	1200	1200	0
9/24/2024 10:49	13303	ORVI_T1	0	0	0	0	0	0	1.1	1.12	0	0	0	0	0	0
9/24/2024 10:49	15203	SFAR_T2	0	0	0	0	0	0	-1.26	-1.25	0	0	0	0	0	0
9/24/2024 10:50	64802	MONE_T2	1	0	-1	1.3	0	-1.3	0.31	0.28	0	0	0	0	0	0
9/24/2024 10:50	64801	MONE_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
9/24/2024 10:50	17002	RIRO_T2	0	143	143	0	0.2	0.2	0.63	0.66	0	0	0	0	0	0
9/24/2024 10:51	24202	PROV_T4	1	1	0	2.9	0	-2.9	-0.4	-0.36	1	1	0	1200	1200	0
9/24/2024 10:52	15203	SFAR_T2	0	0	0	0	0	0	-1.25	-1.23	0	0	0	0	0	0
9/24/2024 10:56	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/24/2024 10:56	67503	WEWI_T2	1	1	0	9.1	9.3	0.2	-0.1	-0.21	0	0	0	0	0	0
9/24/2024 11:02	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	-0.2	0	0	0	0	0	0
9/24/2024 11:02	55002	NEWP_T1	3	6	3	0.3	0.78	0.48	0	0	0	0	0	0	0	0
9/24/2024 11:04	13704	SCHN_T2	1	1	0	0.1	0.2	0.1	-0.15	-0.23	0	0	0	0	0	0
9/24/2024 11:07	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/24/2024 11:07	13701	SCHN_T2	0	0	0	0	0	0	-0.04	-0.03	1	1	0	600	600	0
9/24/2024 11:07	13704	SCHN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/24/2024 11:07	55101	WERT_T1	0	0	0	0	0	0	-0.77	-0.9	2	2	0	1500	1500	0
9/24/2024 11:08	13704	SCHN_T2	1	1	0	0.1	0.2	0.1	-0.23	-0.26	0	0	0	0	0	0
9/24/2024 11:08	55101	WERT_T1	0	0	0	0	0	0	-0.77	-0.9	2	2	0	1500	1500	0
9/24/2024 11:09	55101	WERT_T1	0	0	0	0	0	0	-0.77	-0.9	2	2	0	1500	1500	0
9/24/2024 11:09	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/24/2024 11:10	55101	WERT_T1	0	0	0	0	0	0	-0.77	-0.9	2	2	0	1500	1500	0
9/24/2024 11:12	20401	ASHF_T2	8	7	-1	0.38	0.37	-0.01	0	0	0	0	0	0	0	0
9/24/2024 11:12	20403	ASHF_T2	2	5	3	0.1	0.12	0.02	0.52	0.51	0	0	0	0	0	0
9/24/2024 11:13	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/24/2024 11:15	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/24/2024 11:17	20201	JERM_T1	0	0	0	0	0	0	-0.38	0.15	2	2	0	2400	2400	0
9/24/2024 11:17	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
9/24/2024 11:19	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
9/24/2024 11:20	55101	WERT_T1	0	0	0	0	0	0	-0.77	-0.9	2	2	0	1500	1500	0
9/24/2024 11:21	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/24/2024 11:21	55002	NEWP_T1	4	6	2	0.53	0.68	0.15	-0.26	-0.24	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/24/2024 11:23	54601	SUMM_T2	1	5	4	0.5	0.24	-0.26	-1.78	-1.8	2	2	0	2100	2100	0
9/24/2024 11:23	54602	SUMM_T2	1	0	-1	1.9	0	-1.9	0	0	0	0	0	0	0	0
9/24/2024 11:25	43304	WATS_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
9/24/2024 11:25	43301	WATS_T2	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
9/24/2024 11:25	43302	WATS_T2	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0	0
9/24/2024 11:26	43304	WATS_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
9/24/2024 11:26	43302	WATS_T2	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0	0
9/24/2024 11:26	43301	WATS_T2	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
9/24/2024 11:27	23101	MOSC_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
9/24/2024 11:27	23102	MOSC_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/24/2024 11:34	63501	HEID_TBK1-2	1	1	0	0.2	0.9	0.7	0.09	0.03	1	1	0	900	900	0
9/24/2024 11:36	50103	HARR_T3	2	2	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
9/24/2024 11:36	50202	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 11:36	50107	HARR_T3	1	1	0	7.1	6.5	-0.6	0	0	0	0	0	0	0	0
9/24/2024 11:36	50105	HARR_T3	6	6	0	5.68	5.58	-0.1	0	0	0	0	0	0	0	0
9/24/2024 11:38	24801	VALM_T1	0	0	0	0	0	0	0	-0.33	0	0	0	0	0	0
9/24/2024 11:39	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 11:39	46001	BERW_T1	0	0	0	0	0	0	-0.13	-0.34	0	0	0	0	0	0
9/24/2024 11:42	46001	BERW_T1	0	0	0	0	0	0	-0.13	-0.34	0	0	0	0	0	0
9/24/2024 11:44	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	-1.37	-1.35	1	1	0	600	600	0
9/24/2024 11:44	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/24/2024 11:45	54502	ENOL_T2	1	1	0	0.6	0.6	0	-1.38	-1.46	0	0	0	0	0	0
9/24/2024 11:45	54505	ENOL_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
9/24/2024 11:46	50103	HARR_T3	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
9/24/2024 11:46	50107	HARR_T3	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
9/24/2024 11:46	50105	HARR_T3	6	6	0	5.58	5.77	0.19	0	0	0	0	0	0	0	0
9/24/2024 11:46	50201	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 11:50	13905	SEID_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
9/24/2024 11:53	55002	NEWP_T1	5	5	0	0.68	0.62	-0.06	-0.25	-0.26	0	0	0	0	0	0
9/24/2024 11:56	55101	WERT_T1	0	0	0	0	0	0	-0.84	-0.91	2	2	0	1500	1500	0
9/24/2024 12:03	46504	LOHA_T1	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/24/2024 12:03	46506	LOHA_T1	3	3	0	5.73	5.83	0.1	0	0	0	0	0	0	0	0
9/24/2024 12:03	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
9/24/2024 12:04	52001	LING_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
9/24/2024 12:05	58402	MORO_T1	0	0	0	0	0	0	-0.32	-0.28	2	2	0	1500	1500	0
9/24/2024 12:09	67401	WAKE_T2	0	1	1	0	0.1	0.1	-1.08	-1.05	0	0	0	0	0	0
9/24/2024 12:19	63501	HEID_TBK1-2	1	6	5	0.8	0.35	-0.45	0.43	0.07	2	2	0	1800	1800	0
9/24/2024 12:20	41902	REED_T1	0	0	0	0	0	0	2.94	3.03	0	0	0	0	0	0
9/24/2024 12:20	41901	REED_T1	7	8	1	0.19	0.16	-0.03	0	0	0	0	0	0	0	0
9/24/2024 12:20	54502	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/24/2024 12:20	54506	ENOL_T2	0	0	0	0	0	0	0.55	0.61	1	1	0	600	600	0
9/24/2024 12:20	24902	WHHA_T1	0	1	1	0	0.3	0.3	0.75	0.72	0	0	0	0	0	0
9/24/2024 12:20	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/24/2024 12:21	24902	WHHA_T1	0	1	1	0	0.3	0.3	0.72	0.74	0	0	0	0	0	0
9/24/2024 12:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 12:26	66504	SMAN_T2	0	0	0	0	0	0	-0.39	-0.29	0	0	0	0	0	0
9/24/2024 12:29	60102	COCA_T1	0	0	0	0	0	0	0.23	0.33	2	2	0	1200	1200	0
9/24/2024 12:30	46501	LOHA_T1	0	0	0	0	0	0	0.14	0.16	1	1	0	1200	1200	0
9/24/2024 12:30	46504	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/24/2024 12:30	64605	LEOL_T1	0	0	0	0	0	0	0.41	0.4	1	1	0	300	300	0
9/24/2024 12:30	46506	LOHA_T1	3	3	0	5.7	5.63	-0.07	0	0	0	0	0	0	0	0
9/24/2024 12:31	42903	MIDD_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
9/24/2024 12:31	24105	EHAZ_T1	4	4	0	6.18	6.3	0.12	0	0	0	0	0	0	0	0
9/24/2024 12:31	24102	EHAZ_T1	3	19	16	0.4	0	-0.4	1.22	1.2	0	0	0	0	0	0
9/24/2024 12:31	42902	MIDD_T2	0	0	0	0	0	0	-0.25	0	0	0	0	0	0	0
9/24/2024 12:32	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 12:32	42903	MIDD_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
9/24/2024 12:35	50502	MECH_T1	1	5	4	2.4	0.64	-1.76	-0.29	-0.32	2	2	0	2100	2100	0
9/24/2024 12:35	50501	MECH_T1	4	4	0	0.6	1.03	0.43	0	0	0	0	0	0	0	0
9/24/2024 12:35	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 12:36	42902	MIDD_T2	0	0	0	0	0	0	0	-1.04	0	0	0	0	0	0
9/24/2024 12:36	42903	MIDD_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
9/24/2024 12:38	43301	WATS_T2	1	1	0	1.2	0.9	-0.3	-0.65	-0.65	1	1	0	900	900	0
9/24/2024 12:38	43801	SWIL_T1	2	2	0	5.45	5.5	0.05	0	0	0	0	0	0	0	0
9/24/2024 12:38	43304	WATS_T2	0	0	0	0	0	0	-0.53	-0.5	0	0	0	0	0	0
9/24/2024 12:38	43802	SWIL_T1	0	0	0	0	0	0	-0.07	-0.08	1	1	0	600	600	0
9/24/2024 12:38	43302	WATS_T2	4	0	-4	0.28	0	-0.28	0	0	0	0	0	0	0	0
9/24/2024 12:39	43301	WATS_T2	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
9/24/2024 12:39	65603	QIVL_T2	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
9/24/2024 12:39	43302	WATS_T2	4	0	-4	0.28	0	-0.28	0	0	0	0	0	0	0	0
9/24/2024 12:39	65601	QIVL_T2	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
9/24/2024 12:41	43301	WATS_T2	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
9/24/2024 12:41	43302	WATS_T2	4	0	-4	0.28	0	-0.28	0	0	0	0	0	0	0	0
9/24/2024 12:41	43304	WATS_T2	0	0	0	0	0	0	-1.06	-1	0	0	0	0	0	0
9/24/2024 12:44	50103	HARR_T3	2	2	0	0.35	0.75	0.4	0	0	0	0	0	0	0	0
9/24/2024 12:44	50107	HARR_T3	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
9/24/2024 12:44	50105	HARR_T3	6	6	0	5.75	5.55	-0.2	0	0	0	0	0	0	0	0
9/24/2024 12:47	20603	GRWO_T2	0	0	0	0	0	0	-0.66	-0.59	1	1	0	900	900	0
9/24/2024 12:48	45802	HEGI_T2	13	119	106	0.36	0.45	0.09	1.45	1.63	0	0	0	0	0	0
9/24/2024 12:50	48302	ORWI_T2	2	2	0	1.25	1.1	-0.15	0.09	0.1	0	0	0	0	0	0
9/24/2024 12:52	14404	SSLA_T1	2	2	0	0.35	0.2	-0.15	0.02	0.06	0	0	0	0	0	0
9/24/2024 12:52	14402	SSLA_T1	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/24/2024 12:53	14402	SSLA_T1	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/24/2024 12:53	14401	SSLA_T1	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
9/24/2024 12:53	54603	SUMM_T2	0	0	0	0	0	0	-0.08	-0.07	1	1	0	900	900	0
9/24/2024 12:53	14404	SSLA_T1	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
9/24/2024 12:53	54601	SUMM_T2	3	5	2	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
9/24/2024 12:55	14402	SSLA_T1	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/24/2024 12:55	14404	SSLA_T1	2	2	0	0.35	0.2	-0.15	0.02	0.06	0	0	0	0	0	0
9/24/2024 12:55	14401	SSLA_T1	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
9/24/2024 13:00	61701	ELIZ_T1	1	1	0	5.3	5.3	0	-0.7	-0.69	0	0	0	0	0	0
9/24/2024 13:04	47403	PENS_T1	1	1	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
9/24/2024 13:04	47401	PENS_T1	0	0	0	0	0	0	-0.68	-0.62	0	0	0	0	0	0
9/24/2024 13:04	47402	PENS_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/24/2024 13:12	40702	FFLD_T1	1	1	0	0.1	0.1	0	-0.08	-0.15	1	1	0	1200	1200	0
9/24/2024 13:12	40703	FFLD_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/24/2024 13:12	40701	FFLD_T1	25	25	0	0.18	0.21	0.03	0	0	0	0	0	0	0	0
9/24/2024 13:19	52006	LING_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
9/24/2024 13:19	52004	LING_T2	2	2	0	6.05	6	-0.05	0.35	0.35	0	0	0	0	0	0
9/24/2024 13:19	52002	LING_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/24/2024 13:28	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 13:31	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/24/2024 13:34	58401	MORO_T1	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
9/24/2024 13:34	65802	RTWN_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
9/24/2024 13:36	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/24/2024 13:37	58401	MORO_T1	0	0	0	0	0	0	-0.41	-0.35	0	0	0	0	0	0
9/24/2024 13:49	46101	MACI_T2	0	0	0	0	0	0	0	0.04	1	1	0	1200	1200	0
9/24/2024 13:54	45901	AUBU_T1	0	0	0	0	0	0	1.87	1.81	0	0	0	0	0	0
9/24/2024 13:54	45902	AUBU_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/24/2024 13:56	55101	WERT_T1	0	0	0	0	0	0	-1.72	-1.69	4	4	0	3000	3000	0
9/24/2024 13:57	55101	WERT_T1	0	0	0	0	0	0	-0.86	-0.84	2	2	0	1500	1500	0
9/24/2024 14:08	45902	AUBU_T1	0	1	1	0	0.5	0.5	-1.56	-1.36	2	2	0	1200	1200	0
9/24/2024 14:09	45902	AUBU_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/24/2024 14:09	45901	AUBU_T1	0	0	0	0	0	0	1.81	1.86	0	0	0	0	0	0
9/24/2024 14:11	45902	AUBU_T1	0	1	1	0	0.5	0.5	-0.78	-0.68	1	1	0	600	600	0
9/24/2024 14:11	64602	LEOL_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
9/24/2024 14:13	45902	AUBU_T1	0	1	1	0	0.5	0.5	-0.78	-0.68	1	1	0	600	600	0
9/24/2024 14:14	50105	HARR_T3	6	6	0	5.62	5.43	-0.19	0	0	0	0	0	0	0	0
9/24/2024 14:14	50107	HARR_T3	1	1	0	6.8	6.3	-0.5	0	0	0	0	0	0	0	0
9/24/2024 14:14	50202	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 14:14	50103	HARR_T3	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
9/24/2024 14:15	26704	HEML_T2	0	0	0	0	0	0	-0.82	-0.78	1	1	0	1200	1200	0
9/24/2024 14:18	48302	ORWI_T2	2	2	0	1.65	1.45	-0.2	0	0	0	0	0	0	0	0
9/24/2024 14:18	48303	ORWI_T2	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
9/24/2024 14:18	57505	LAWN_T3	0	1	1	0	0.1	0.1	0.52	0.55	0	0	0	0	0	0
9/24/2024 14:24	16101	BING_T2	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
9/24/2024 14:35	48301	ORWI_T1	2	2	0	5.2	5.3	0.1	-0.31	-0.32	1	1	0	900	900	0
9/24/2024 14:36	65802	RTWN_T2	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
9/24/2024 14:37	48301	ORWI_T1	2	2	0	5.2	5.3	0.1	-0.32	-0.36	1	1	0	900	900	0
9/24/2024 14:38	67201	TEHI_T1	0	0	0	0	0	0	1.25	1.41	1	1	0	900	900	0
9/24/2024 14:41	40802	EXCH_T2	0	1	1	0	0.1	0.1	-0.08	-0.26	0	0	0	0	0	0
9/24/2024 14:41	67401	WAKE_T2	0	0	0	0	0	0	-0.98	-1.03	0	0	0	0	0	0
9/24/2024 14:43	40802	EXCH_T2	0	1	1	0	0.1	0.1	-0.08	-0.26	0	0	0	0	0	0
9/24/2024 14:45	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
9/24/2024 14:45	44504	HAMI_T2	0	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0
9/24/2024 14:45	44505	HAMI_T2	0	0	0	0	0	0	0.05	0.11	0	0	0	0	0	0
9/24/2024 14:46	40802	EXCH_T2	1	0	-1	0.1	0	-0.1	-0.16	-0.52	0	0	0	0	0	0
9/24/2024 14:50	46102	MACI_T1	0	0	0	0	0	0	0.87	0.8	0	0	0	0	0	0
9/24/2024 14:54	66502	SMAN_T2	0	0	0	0	0	0	0.58	0.54	0	0	0	0	0	0
9/24/2024 14:57	66502	SMAN_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
9/24/2024 14:59	66502	SMAN_T2	0	0	0	0	0	0	0.87	0.8	0	0	0	0	0	0
9/24/2024 15:07	48301	ORWI_T1	2	2	0	5.3	5.35	0.05	-0.37	-0.25	1	1	0	900	900	0
9/24/2024 15:13	11202	ELHE_T2	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
9/24/2024 15:18	52004	LING_T2	2	3	1	6.3	4.3	-2	0.27	0.26	0	0	0	0	0	0
9/24/2024 15:18	58402	MORO_T1	0	0	0	0	0	0	-0.24	-0.2	2	2	0	1500	1500	0
9/24/2024 15:18	52006	LING_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/24/2024 15:18	52002	LING_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/24/2024 15:20	65205	PRIN_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
9/24/2024 15:21	48302	ORWI_T2	2	2	0	1.15	1.05	-0.1	0.02	-0.03	0	0	0	0	0	0
9/24/2024 15:22	41902	REED_T1	0	0	0	0	0	0	1	1.02	0	0	0	0	0	0
9/24/2024 15:36	24901	WHHA_T1	0	0	0	0	0	0	0.53	0.47	0	0	0	0	0	0
9/24/2024 15:37	24901	WHHA_T1	0	0	0	0	0	0	0.53	0.47	0	0	0	0	0	0
9/24/2024 15:49	63501	HEID_TBK1-2	28	74	46	0.25	0.32	0.07	-0.02	-0.12	1	1	0	900	900	0
9/24/2024 15:50	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 15:54	67106	SPRI_T2	0	0	0	0	0	0	-1.17	-1.15	1	1	0	900	900	0
9/24/2024 16:07	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 16:07	21206	ECAR_T2	1	1	0	7.1	7.1	0	-0.04	0.01	0	0	0	0	0	0
9/24/2024 16:15	55507	HERS_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
9/24/2024 16:15	55503	HERS_T1	0	0	0	0	0	0	-1.51	-1.53	1	1	0	1200	1200	0
9/24/2024 16:15	55501	HERS_T1	52	52	0	0.39	0.5	0.11	0	0	0	0	0	0	0	0
9/24/2024 16:29	52202	DEVO_T2	0	0	0	0	0	0	-0.08	-0.04	0	0	0	0	0	0
9/24/2024 16:32	22701	MINO_T1	0	0	0	0	0	0	-1.05	-1.06	1	1	0	600	600	0
9/24/2024 16:32	64704	LITI_T1	0	0	0	0	0	0	0.38	0.13	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/24/2024 16:41	40201	BEGA_T2	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
9/24/2024 16:51	14801	TREI_T2	3	2	-1	0.17	0.25	0.08	0.45	0.45	0	0	0	0	0	0
9/24/2024 17:32	64201	KINZ_T1	1	6	5	0.6	0.28	-0.32	0	0	0	0	0	0	0	0
9/24/2024 17:32	64202	KINZ_T1	3	3	0	0.37	0.53	0.16	0	0	0	0	0	0	0	0
9/24/2024 17:32	64204	KINZ_T1	2	3	1	0.15	0.5	0.35	0	0	0	0	0	0	0	0
9/24/2024 17:32	64203	KINZ_T1	0	0	0	0	0	0	0	-0.24	-0.23	1	1	0	600	600	0
9/24/2024 17:34	64202	KINZ_T1	3	3	0	0.37	0.53	0.16	0	0	0	0	0	0	0	0
9/24/2024 17:34	64204	KINZ_T1	2	3	1	0.15	0.5	0.35	0	0	0	0	0	0	0	0
9/24/2024 17:34	64201	KINZ_T1	1	6	5	0.6	0.28	-0.32	-0.52	-0.56	3	3	0	1500	1500	0
9/24/2024 17:37	64201	KINZ_T1	1	6	5	0.6	0.28	-0.32	-0.56	-0.61	3	3	0	1500	1500	0
9/24/2024 17:37	64204	KINZ_T1	2	3	1	0.15	0.5	0.35	0	0	0	0	0	0	0	0
9/24/2024 17:37	64202	KINZ_T1	3	3	0	0.37	0.53	0.16	0	0	0	0	0	0	0	0
9/24/2024 17:42	46001	BERW_T1	0	0	0	0	0	0	0.38	0.68	0	0	0	0	0	0
9/24/2024 19:48	28102	TWLA_T2	6	5	-1	0.3	0.6	0.3	0.22	0.21	0	0	0	0	0	0
9/24/2024 20:14	11601	CEAL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 20:14	11604	CEAL_T1	0	4	4	0	0.98	0.98	0	0	0	0	0	0	0	0
9/24/2024 20:17	46504	LOHA_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/24/2024 20:17	46501	LOHA_T1	0	0	0	0	0	0	0.12	0.17	1	1	0	1200	1200	0
9/24/2024 20:17	46506	LOHA_T1	3	3	0	5.2	5.53	0.33	0	0	0	0	0	0	0	0
9/24/2024 20:19	66505	SMAN_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
9/24/2024 20:19	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 20:20	12807	MICK_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/24/2024 20:20	12803	MICK_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/24/2024 20:20	12802	MICK_T1	0	0	0	0	0	0	-1.28	-1.26	0	0	0	0	0	0
9/24/2024 20:25	47403	PENS_T1	0	17	17	0	0.16	0.16	0	0	0	0	0	0	0	0
9/24/2024 20:25	47401	PENS_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
9/24/2024 20:26	65503	MOJO_T2	42	183	141	0.12	0.19	0.07	-0.2	-0.23	0	0	0	0	0	0
9/24/2024 20:26	65502	MOJO_T2	281	317	36	0.22	0.4	0.18	0	0	0	0	0	0	0	0
9/24/2024 20:26	12803	MICK_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
9/24/2024 20:26	12802	MICK_T1	0	0	0	0	0	0	-1.26	-1.28	0	0	0	0	0	0
9/24/2024 20:26	12807	MICK_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/24/2024 20:27	43802	SWIL_T1	0	0	0	0	0	0	-0.03	-0.02	1	1	0	600	600	0
9/24/2024 20:27	43801	SWIL_T1	48	81	33	0.34	0.34	0	0	0	0	0	0	0	0	0
9/24/2024 20:29	67502	WEWI_T2	32	0	-32	0.13	0	-0.13	0	0	0	0	0	0	0	0
9/24/2024 20:29	67503	WEWI_T2	1	1	0	7.7	7.6	-0.1	-0.02	-0.23	0	0	0	0	0	0
9/24/2024 20:30	66505	SMAN_T2	1	3	2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/24/2024 20:30	66502	SMAN_T2	0	0	0	0	0	0	-0.22	-0.17	0	0	0	0	0	0
9/24/2024 20:31	43301	WATS_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/24/2024 20:31	43302	WATS_T2	4	4	0	0.85	1.18	0.33	0	0	0	0	0	0	0	0
9/24/2024 20:31	43304	WATS_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
9/24/2024 20:32	50202	HARR_T3	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/24/2024 20:32	24801	VALM_T1	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
9/24/2024 20:32	50103	HARR_T3	2	2	0	1.15	1.2	0.05	0	0	0	0	0	0	0	0
9/24/2024 20:32	50201	HARR_T3	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/24/2024 20:32	50105	HARR_T3	6	0	0	5.42	5.32	-0.1	0	0	0	0	0	0	0	0
9/24/2024 20:32	43301	WATS_T2	0	1	1	0	0.4	0.4	0.35	0.32	0	0	0	0	0	0
9/24/2024 20:32	50107	HARR_T3	1	1	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
9/24/2024 20:32	43302	WATS_T2	4	4	0	0.85	1.18	0.33	0	0	0	0	0	0	0	0
9/24/2024 20:33	64605	LEOL_T1	0	0	0	0	0	0	-0.22	0.18	1	0	-1	300	0	-300
9/24/2024 20:33	41902	REED_T1	0	0	0	0	0	0	2	2.02	0	0	0	0	0	0
9/24/2024 20:33	46504	LOHA_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/24/2024 20:33	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
9/24/2024 20:33	46506	LOHA_T1	3	3	0	5.13	5.53	0.4	0	0	0	0	0	0	0	0
9/24/2024 20:34	64903	MILL_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
9/24/2024 20:35	63501	HEID_TBK1-2	1	8	7	0.3	0.15	-0.15	0.52	0.56	0	0	0	0	0	0
9/24/2024 20:36	67505	WEWI_T1	0	0	0	0	0	0	-0.15	-0.17	1	1	0	900	900	0
9/24/2024 20:37	40201	BEGA_T2	1	6	5	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
9/24/2024 20:37	44505	HAMI_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
9/24/2024 20:37	67502	WEWI_T2	0	0	0	0	0	0	-0.34	-0.42	0	0	0	0	0	0
9/24/2024 20:37	67505	WEWI_T1	0	0	0	0	0	0	-0.17	-0.16	1	1	0	900	900	0
9/24/2024 20:37	67503	WEWI_T2	1	1	0	7.6	7.8	0.2	0	0	0	0	0	0	0	0
9/24/2024 20:37	43301	WATS_T2	0	1	1	0	0.4	0.4	0.32	0.31	0	0	0	0	0	0
9/24/2024 20:37	43302	WATS_T2	4	4	0	0.85	1.18	0.33	0	0	0	0	0	0	0	0
9/24/2024 20:37	44502	HAMI_T2	1	1	0	3.4	3.5	0.1	0	0	0	0	0	0	0	0
9/24/2024 20:38	66505	SMAN_T2	1	3	2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/24/2024 20:38	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
9/24/2024 20:38	55002	NEWP_T1	3	3	0	0.63	0.7	0.07	-0.28	-0.28	0	0	0	0	0	0
9/24/2024 20:38	52004	LING_T2	2	2	0	6.25	6.45	0.2	0.16	0.11	0	0	0	0	0	0
9/24/2024 20:38	65502	MOJO_T2	317	144	-173	0.4	0.13	-0.27	-0.74	-0.76	0	0	0	0	0	0
9/24/2024 20:38	65503	MOJO_T2	183	26	-157	0.19	0.1	-0.09	0	0	0	0	0	0	0	0
9/24/2024 20:38	52006	LING_T2	2	2	0	0.65	1	0.35	0	0	0	0	0	0	0	0
9/24/2024 20:38	52002	LING_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
9/24/2024 20:39	52004	LING_T2	2	2	0	6.25	6.45	0.2	0.16	0.11	0	0	0	0	0	0
9/24/2024 20:39	67503	WEWI_T2	1	1	0	7.6	7.8	0.2	-0.23	-0.19	0	0	0	0	0	0
9/24/2024 20:39	58402	MORO_T1	0	0	0	0	0	0	0.36	0.38	1	1	0	900	900	0
9/24/2024 20:39	52006	LING_T2	2	2	0	0.65	1	0.35	0	0	0	0	0	0	0	0
9/24/2024 20:39	41502	FAIR_T2	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
9/24/2024 20:39	65802	RTWN_T2	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
9/24/2024 20:39	52001	LING_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
9/24/2024 20:39	58401	MORO_T1	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
9/24/2024 20:39	40201	BEGA_T2	1	6	5	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
9/24/2024 20:40	45802	HEGI_T2	48	46	-2	1.49	1.3	-0.19	0.65	0.69	0	0	0	0	0	0
9/24/2024 20:40	64602	LEOL_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
9/24/2024 20:40	66505	SMAN_T2	1	3	2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/24/2024 20:40	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 20:40	58402	MORO_T1	0	0	0	0	0	0	0.36	0.38	1	1	0	900	900	0
9/24/2024 20:41	24902	WHHA_T1	0	0	0	0	0	0	0.76	0.72	0	0	0	0	0	0
9/24/2024 20:41	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
9/24/2024 20:41	65603	QVIL_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
9/24/2024 20:41	45802	HEGI_T2	48	46	-2	1.49	1.3	-0.19	0.65	0.69	0	0	0	0	0	0
9/24/2024 20:42	41902	REED_T1	0	0	0	0	0	0	1.01	0.9	0	0	0	0	0	0
9/24/2024 20:42	46001	BERW_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
9/24/2024 20:42	40201	BEGA_T2	1	6	5	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
9/24/2024 20:42	17002	RIRO_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
9/24/2024 20:42	65503	MOJO_T2	183	26	-157	0.19	0.1	-0.09	-0.23	-0.25	0	0	0	0	0	0
9/24/2024 20:42	15604	NSTR_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
9/24/2024 20:42	14801	TREI_T2	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
9/24/2024 20:42	61701	ELIZ_T1	1	1	0	5.7	6.1	0.4	-0.98	-1.11	0	0	0	0	0	0
9/24/2024 20:42	65502	MOJO_T2	317	144	-173	0.4	0.13	-0.27	0	0	0	0	0	0	0	0
9/24/2024 20:42	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/24/2024 20:43	48302	ORWI_T2	2	2	0	0.8	0.95	0.15	-0.11	-0.13	0	0	0	0	0	0
9/24/2024 20:43	64202	KINZ_T1	3	4	1	0.73	0.65	-0.08	0	0	0	0	0	0	0	0
9/24/2024 20:43	66505	SMAN_T2	1	3	2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/24/2024 20:43	40701	FFLD_T1	75	75	0	0.75	0.79	0.04	0	0	0	0	0	0	0	0
9/24/2024 20:43	64201	KINZ_T1	7	5	-2	0.34	0.4	0.06	-0.43	-0.38	2	2	0	1200	1200	0
9/24/2024 20:43	40703	FFLD_T1	4	4	0	0.88	0.95	0.07	0	0	0	0	0	0	0	0
9/24/2024 20:43	67503	WEWI_T2	1	1	0	7.6	7.8	0.2	-0.23	-0.19	0	0	0	0	0	0
9/24/2024 20:43	55101	WERT_T1	0	0	0	0	0	0	-1.48	-1.45	2	2	0	1500	1500	0
9/24/2024 20:43	63501	HEID_TBK1-2	1	8	7	0.3	0.15	-0.15	0.56	0.53	0	0	0	0	0	0
9/24/2024 20:43	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
9/24/2024 20:43	40702	FFLD_T1	183	184	1	0.5	0.57	0.07	-0.72	-0.61	1	1	0	1200	1200	0
9/24/2024 20:43	15701	TANN_T1	1	1	0	4.8	4.9	0.1	0.25	0.24	0	0	0	0	0	0
9/24/2024 20:43	40802	EXCH_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
9/24/2024 20:43	64204	KINZ_T1	14	12	-2	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
9/24/2024 20:44	12802	MICK_T1	0	0	0	0	0	0	-1.28	-1.3	0	0	0	0	0	0
9/24/2024 20:44	12803	MICK_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/24/2024 20:44	43302	WATS_T2	4	4	0	0.85	1.18	0.33	0	0	0	0	0	0	0	0
9/24/2024 20:44	67502	WEWI_T2	0	0	0	0	0	0	-0.34	-0.42	0	0	0	0	0	0
9/24/2024 20:44	43304	WATS_T2	0	0	0	0	0	0	-1.23	-1.3	0	0	0	0	0	0
9/24/2024 20:44	20403	ASHF_T2	0	0	0	0	0	0	0.32	0.35	0	0	0	0	0	0
9/24/2024 20:44	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	-1.3	-1.33	1	1	0	600	600	0
9/24/2024 20:44	12807	MICK_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/24/2024 20:44	16301	ALPA_T1	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0
9/24/2024 20:44	43301	WATS_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/24/2024 20:44	54506	ENOL_T2	0	0	0	0	0	0	0.7	0.63	1	1	0	600	600	0
9/24/2024 20:44	55102	WERT_T2	0	0	0	0	0	0	-0.19	-0.18	0	0	0	0	0	0
9/24/2024 20:44	24105	EHAZ_T1	4	4	0	5.88	5.68	-0.2	0	0	0	0	0	0	0	0
9/24/2024 20:44	20401	ASHF_T2	4	5	1	0.38	0.46	0.08	0	0	0	0	0	0	0	0
9/24/2024 20:44	67503	WEWI_T2	1	1	0	7.6	7.8	0.2	0	0	0	0	0	0	0	0
9/24/2024 20:44	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/24/2024 20:44	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
9/24/2024 20:44	24102	EHAZ_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
9/24/2024 20:44	64802	MONE_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
9/24/2024 20:44	65802	RTWN_T2	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
9/24/2024 20:45	13905	SEID_T1	0	0	0	0	0	0	-1.1	-1.06	1	1	0	1200	1200	0
9/24/2024 20:45	55002	NEWP_T1	3	3	0	0.7	0.73	0.03	0	0	0	0	0	0	0	0
9/24/2024 20:45	50502	MECH_T1	123	134	11	0.33	0.58	0.25	-0.47	-0.46	1	1	0	900	900	0
9/24/2024 20:45	50501	MECH_T1	4	4	0	0.8	1.03	0.23	0	0	0	0	0	0	0	0
9/24/2024 20:45	55001	NEWP_T1	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
9/24/2024 20:45	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 20:45	25404	LAHA_T2	8	20	12	0.1	0.12	0.02	0	0	0	0	0	0	0	0
9/24/2024 20:45	40802	EXCH_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
9/24/2024 20:45	55101	WERT_T1	0	0	0	0	0	0	-1.48	-1.45	2	2	0	1500	1500	0
9/24/2024 20:45	24202	PROV_T4	1	10	9	2.3	0.1	-2.2	-0.44	-0.47	1	1	0	1200	1200	0
9/24/2024 20:45	55102	WERT_T2	0	0	0	0	0	0	-0.19	-0.18	0	0	0	0	0	0
9/24/2024 20:45	25402	LAHA_T2	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
9/24/2024 20:45	21206	ECAR_T2	1	1	0	7.3	6.9	-0.4	0.03	0.04	0	0	0	0	0	0
9/24/2024 20:45	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
9/24/2024 20:46	50103	HARR_T3	2	2	0	1.15	1.2	0.05	0	0	0	0	0	0	0	0
9/24/2024 20:46	43301	WATS_T2	1	1	0	0.2	0.5	0.3	0.32	0.31	0	0	0	0	0	0
9/24/2024 20:46	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 20:46	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 20:46	50107	HARR_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/24/2024 20:46	54505	ENOL_T2	1	1	0	0.5	0.5	0	-1.3	-1.33	1	1	0	600	600	0
9/24/2024 20:46	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 20:46	50201	HARR_T3	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/24/2024 20:46	65205	PRIN_T1	5	12	7	0.5	0.29	-0.21	0	0	0	0	0	0	0	0
9/24/2024 20:46	50107	HARR_T3	1	1	0	7.2	6.4	-0.8	0	0	0	0	0	0	0	0
9/24/2024 20:46	66505	SMAN_T2	3	3	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/24/2024 20:46	50202	HARR_T3	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/24/2024 20:46	43302	WATS_T2	4	4	0	0.85	1.18	0.33	0	0	0	0	0	0	0	0
9/24/2024 20:46	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/24/2024 20:46	15604	NSTR_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/24/2024 20:46	40802	EXCH_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
9/24/2024 20:46	50105	HARR_T3	6	6	0	5.35	5.28	-0.07	0	0	0	0	0	0	0	0
9/24/2024 20:46	67503	WEWI_T2	1	1	0	7.6	8.3	0.7	-0.23	-0.19	0	0	0	0	0	0
9/24/2024 20:46	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
9/24/2024 20:46	14401	SSLA_T1	0	0	0	0	0	0	-0.51	-0.46	0	0	0	0	0	0
9/24/2024 20:47	43301	WATS_T2	1	1	0	0.2	0.5	0.3	0.32	0.31	0	0	0	0	0	0
9/24/2024 20:47	45902	AUBU_T1	0	0	0	0	0	0	-1.91	-1.88	2	2	0	1200	1200	0
9/24/2024 20:47	16101	BING_T2	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
9/24/2024 20:47	43302	WATS_T2	4	4	0	0.85	1.18	0.33	0	0	0	0	0	0	0	0
9/24/2024 20:47	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 20:47	14401	SSLA_T1	0	0	0	0	0	0	-0.51	-0.46	0	0	0	0	0	0
9/24/2024 20:47	24901	WHHA_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
9/24/2024 20:47	54505	ENOL_T2	1	1	0	0.5	0.5	0	-1.3	-1.33	1	1	0	600	600	0
9/24/2024 20:47	14404	SSLA_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
9/24/2024 20:47	43304	WATS_T2	0	0	0	0	0	0	-1.23	-1.3	0	0	0	0	0	0
9/24/2024 20:47	46001	BERW_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
9/24/2024 20:48	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/24/2024 20:48	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
9/24/2024 20:48	65604	QVIL_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
9/24/2024 20:48	50201	HARR_T3	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/24/2024 20:48	43302	WATS_T2	4	4	0	0.85	1.18	0.33	0	0	0	0	0	0	0	0
9/24/2024 20:48	43301	WATS_T2	1	1	0	0.2	0.5	0.3	0.32	0.31	0	0	0	0	0	0
9/24/2024 20:48	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 20:48	66505	SMAN_T2	3	3	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/24/2024 20:48	50202	HARR_T3	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/24/2024 20:48	50105	HARR_T3	6	6	0	5.35	5.28	-0.07	0	0	0	0	0	0	0	0
9/24/2024 20:48	50107	HARR_T3	1	1	0	7.2	6.4	-0.8	0	0	0	0	0	0	0	0
9/24/2024 20:48	50102	HARR_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/24/2024 20:48	13303	ORVI_T1	0	0	0	0	0	0	0.86	0.86	0	0	0	0	0	0
9/24/2024 20:48	24902	WHHA_T1	0	0	0	0	0	0	0.76	0.72	0	0	0	0	0	0
9/24/2024 20:48	50103	HARR_T3	2	2	0	1.15	1.2	0.05	0	0	0	0	0	0	0	0
9/24/2024 20:49	46101	MACI_T2	0	0	0	0	0	0	-0.52	-0.58	1	1	0	1200	1200	0
9/24/2024 20:49	52001	LING_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
9/24/2024 20:49	45902	AUBU_T1	0	0	0	0	0	0	-0.95	-0.94	1	1	0	600	600	0
9/24/2024 20:49	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
9/24/2024 20:49	48301	ORWI_T1	2	2	0	5.5	5.7	0.2	-0.99	-1.01	2	2	0	1800	1800	0
9/24/2024 20:49	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 20:49	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/24/2024 20:49	11202	ELHE_T2	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
9/24/2024 20:49	23102	MOSC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 20:49	66505	SMAN_T2	3	3	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/24/2024 20:49	64704	LITI_T1	0	0	0	0	0	0	0.27	0.43	1	1	0	600	600	0
9/24/2024 20:49	11203	ELHE_T1	0	0	0	0	0	0	1.07	1.05	0	0	0	0	0	0
9/24/2024 20:49	26704	HEML_T2	11	59	48	0.1	0.16	0.06	-0.83	-0.83	1	1	0	1200	1200	0
9/24/2024 20:50	41902	REED_T1	0	0	0	0	0	0	1.01	0.9	0	0	0	0	0	0
9/24/2024 20:50	13701	SCHN_T2	0	0	0	0	0	0	-0.02	-0.03	1	1	0	600	600	0
9/24/2024 20:50	10801	CHHI_T1	0	0	0	0	0	0	-1.39	-1.39	2	2	0	1500	1500	0
9/24/2024 20:50	15203	SFAR_T2	0	1	1	0	0	0	-1.18	-1.23	0	0	0	0	0	0
9/24/2024 20:50	45901	AUBU_T1	0	0	0	0	0	0	1.69	1.67	0	0	0	0	0	0
9/24/2024 20:51	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/24/2024 20:51	64201	KINZ_T1	5	6	1	0.4	0.35	-0.05	-0.43	-0.38	2	2	0	1200	1200	0
9/24/2024 20:51	64202	KINZ_T1	4	3	-1	0.65	0.97	0.32	0	0	0	0	0	0	0	0
9/24/2024 20:51	48302	ORWI_T2	2	2	0	0.9	0.95	0.05	-0.26	-0.24	0	0	0	0	0	0
9/24/2024 20:51	64204	KINZ_T1	12	8	-4	0.2	0.24	0.04	0	0	0	0	0	0	0	0
9/24/2024 20:51	14404	SSLA_T1	0	0	0	0	0	0	-0.03	-0.08	0	0	0	0	0	0
9/24/2024 20:52	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
9/24/2024 20:52	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/24/2024 20:52	16301	ALPA_T1	0	0	0	0	0	0	0.08	-0.02	0	0	0	0	0	0
9/24/2024 20:52	50107	HARR_T3	1	1	0	7.2	6.4	-0.8	0	0	0	0	0	0	0	0
9/24/2024 20:52	50201	HARR_T3	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/24/2024 20:52	50105	HARR_T3	6	6	0	5.35	5.28	-0.07	0	0	0	0	0	0	0	0
9/24/2024 20:52	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
9/24/2024 20:52	50202	HARR_T3	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/24/2024 20:52	50103	HARR_T3	2	2	0	1.15	1.2	0.05	0	0	0	0	0	0	0	0
9/24/2024 20:52	13704	SCHN_T2	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
9/24/2024 20:52	50102	HARR_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/24/2024 20:52	45902	AUBU_T1	0	0	0	0	0	0	-0.94	-0.88	1	1	0	600	600	0
9/24/2024 20:53	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 20:53	67401	WAKE_T2	0	0	0	0	0	0	-1.06	-1.03	0	0	0	0	0	0
9/24/2024 20:53	25404	LAHA_T2	8	20	12	0.1	0.12	0.02	0	0	0	0	0	0	0	0
9/24/2024 20:53	55101	WERT_T1	0	0	0	0	0	0	-2.89	-1.71	4	2	-2	3000	1800	-1200
9/24/2024 20:53	55507	HERS_T1	5	12	7	0.14	0.22	0.08	0	0	0	0	0	0	0	0
9/24/2024 20:53	25402	LAHA_T2	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
9/24/2024 20:53	55503	HERS_T1	0	0	0	0	0	0	-1.51	-1.55	1	1	0	1200	1200	0
9/24/2024 20:53	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 20:53	15203	SFAR_T2	0	1	1	0	0	0	-1.23	-1.25	0	0	0	0	0	0
9/24/2024 20:53	55501	HERS_T1	52	52	0	0.48	0.5	0.02	0	0	0	0	0	0	0	0
9/24/2024 20:53	48301	ORWI_T1	2	2	0	5.5	5.7	0.2	-0.5	-0.6	1	1	0	900	900	0
9/24/2024 20:53	42903	MIDD_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
9/24/2024 20:54	67106	SPRI_T2	0	0	0	0	0	0	-1.15	-1.26	1	1	0	900	900	0
9/24/2024 20:54	46102	MACI_T1	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
9/24/2024 20:54	55101	WERT_T1	0	0	0	0	0	0	-1.45	-0.85	2	1	-1	1500	900	-600
9/24/2024 20:54	67401	WAKE_T2	0	0	0	0	0	0	-1.06	-1.03	0	0	0	0	0	0
9/24/2024 20:55	65503	MOJO_T2	26	67	41	0.1	0.12	0.02	0	0	0	0	0	0	0	0
9/24/2024 20:55	42902	MIDD_T2	0	0	0	0	0	0	-0.76	-0.87	0	0	0	0	0	0
9/24/2024 20:55	65502	MOJO_T2	143	230	87	0.13	0.17	0.04	-0.76	-0.84	0	0	0	0	0	0
9/24/2024 20:55	16301	ALPA_T1	0	0	0	0	0	0	0.04	-0.01	0	0	0	0	0	0
9/24/2024 20:55	66505	SMAN_T2	3	3	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/24/2024 20:55	67201	TEHI_T1	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
9/24/2024 20:55	54505	ENOL_T2	1	1	0	0.5	0.5	0	-1.33	-1.32	1	1	0	600	600	0
9/24/2024 20:55	42903	MIDD_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
9/24/2024 20:55	66504	SMAN_T2	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
9/24/2024 20:55	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 20:55	20601	GRWO_T2	2	10	8	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/24/2024 20:55	20603	GRWO_T2	7	15	8	0.1	0.13	0.03	0.34	0.32	0	0	0	0	0	0
9/24/2024 20:55	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/24/2024 20:55	20201	JERM_T1	0	0	0	0	0	0	-0.4	-0.43	2	2	0	2400	2400	0
9/24/2024 20:56	55105	WERT_T1	0	0	0	0	0	0	-0.55	-0.59	1	1	0	900	900	0
9/24/2024 20:56	24901	WHHA_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
9/24/2024 20:56	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 20:56	60801	BUCK_T1	2	25	23	0.1	0.16	0.06	-0.23	-0.24	0	0	0	0	0	0
9/24/2024 20:56	13704	SCHN_T2	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
9/24/2024 20:56	54601	SUMM_T2	6	8	2	0.27	0.33	0.06	-1.89	-1.85	2	2	0	2100	2100	0
9/24/2024 20:56	16301	ALPA_T1	0	0	0	0	0	0	0.04	-0.01	0	0	0	0	0	0
9/24/2024 20:56	54502	ENOL_T2	0	0	0	0	0	0	-1.35	-1.35	0	0	0	0	0	0
9/24/2024 20:56	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/24/2024 20:56	60803	BUCK_T1	0	8	8	0	0.19	0.19	0	0	0	0	0	0	0	0
9/24/2024 20:56	55101	WERT_T1	0	0	0	0	0	0	-2.89	-1.71	4	2	-2	3000	1800	-1200
9/24/2024 20:56	54602	SUMM_T2	1	1	0	8.4	2.3	-6.1	0	0	0	0	0	0	0	0
9/24/2024 20:57	64203	KINZ_T1	0	0	0	0	0	0	0.35	0.3	0	0	0	0	0	0
9/24/2024 20:57	48303	ORWI_T2	0	0	0	0	0	0	0.73	0.7	0	0	0	0	0	0
9/24/2024 20:57	64202	KINZ_T1	4	3	-1	0.65	0.97	0.32	0	0	0	0	0	0	0	0
9/24/2024 20:57	64201	KINZ_T1	5	6	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
9/24/2024 20:57	48302	ORWI_T2	2	2	0	0.9	0.95	0.05	0	0	0	0	0	0	0	0
9/24/2024 20:57	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 20:57	54501	ENOL_T2	0	0	0	0	0	0	0.17	0.12	0	0	0	0	0	0
9/24/2024 20:57	64204	KINZ_T1	12	8	-4	0.2	0.24	0.04	0	0	0	0	0	0	0	0
9/24/2024 20:57	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/24/2024 20:58	60102	CDCA_T1	0	0	0	0	0	0	0.74	0.78	2	2	0	1200	1200	0
9/24/2024 20:59	63501	HEID_TBK1-2	5	26	21	0.18	0.2	0.02	0.53	0.45	0	0	0	0	0	0
9/24/2024 21:00	58401	MORO_T1	0	4	4	0	3.15	3.15	-0.59	-0.59	0	0	0	0	0	0
9/24/2024 21:00	55001	NEWP_T1	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
9/24/2024 21:00	55002	NEWP_T1	2	3	1	0.95	0.73	-0.22	0	0	0	0	0	0	0	0
9/24/2024 21:01	54502	ENOL_T2	0	1	1	0	0.2	0.2	-1.35	-1.35	0	0	0	0	0	0
9/24/2024 21:01	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/24/2024 21:01	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/24/2024 21:10	40802	EXCH_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
9/24/2024 21:18	57505	LAWN_T3	6	27	21	0.2	0.14	-0.06	0.49	0.49	0	0	0	0	0	0
9/24/2024 21:19	55002	NEWP_T1	3	5	2	0.73	0.52	-0.21	-0.27	-0.25	0	0	0	0	0	0
9/24/2024 21:49	65207	PRIN_T4	8	16	8	0.23	0.19	-0.04	0	0	2	2	0	1800	1800	0
9/24/2024 23:27	22701	MINO_T1	0	0	0	0	0	0	-1.07	-1.04	1	1	0	600	600	0
9/25/2024 9:22	24901	WHHA_T1	0	0	0	0	0	0	0.89	0.89	0	0	0	0	0	0
9/25/2024 9:22	24902	WHHA_T1	2	2	0	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
9/25/2024 9:37	15603	NSTR_T2	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
9/25/2024 9:38	65603	QVIL_T2	0	0	0	0	0	0	0.67	0.72	0	0	0	0	0	0
9/25/2024 9:43	24105	EHAZ_T1	4	4	0	6.4	6.35	-0.05	0	0	0	0	0	0	0	0
9/25/2024 9:43	24101	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 9:43	24104	EHAZ_T1	0	0	0	0	0	0	-0.83	-0.84	1	1	0	1200	1200	0
9/25/2024 9:44	23203	HIRU_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
9/25/2024 9:49	55001	NEWP_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
9/25/2024 9:49	55002	NEWP_T1	2	5	3	0.6	0.46	-0.14	0	0	0	0	0	0	0	0
9/25/2024 9:54	10805	CHHI_T2	1	1	0	7.4	7.5	0.1	-1.69	-1.37	2	2	0	1800	1800	0
9/25/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.99	-1.01	0	0	0	0	0	0
9/25/2024 10:00	59002	MIFF_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
9/25/2024 10:00	59003	MIFF_T1	0	1	1	0	0.2	0.2	-0.42	-0.52	0	0	0	0	0	0
9/25/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.49	0.56	0	0	0	0	0	0
9/25/2024 10:00	52402	GRPA_T2	1	3	2	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
9/25/2024 10:00	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/25/2024 10:00	24902	WHHA_T1	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/25/2024 10:00	28805	LAKE_T1	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
9/25/2024 10:00	52403	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/25/2024 10:00	67503	WEWI_T2	1	1	0	9.1	9.3	0.2	-0.25	-0.22	0	0	0	0	0	0
9/25/2024 10:00	24901	WHHA_T1	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
9/25/2024 10:00	15603	NSTR_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
9/25/2024 10:00	46101	MACI_T2	0	0	0	0	0	0	-0.7	-0.65	2	2	0	2400	2400	0
9/25/2024 10:14	24105	EHAZ_T1	4	4	0	6.38	6.18	-0.2	0	0	0	0	0	0	0	0
9/25/2024 10:14	24101	EHAZ_T1	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/25/2024 10:14	24104	EHAZ_T1	0	0	0	0	0	0	-0.84	-0.82	1	1	0	1200	1200	0
9/25/2024 10:15	46506	LOHA_T1	3	3	0	5.47	5.53	0.06	0	0	0	0	0	0	0	0
9/25/2024 10:15	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
9/25/2024 10:15	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 10:17	46506	LOHA_T1	3	3	0	5.47	5.53	0.06	0	0	0	0	0	0	0	0
9/25/2024 10:17	20201	JERM_T1	0	0	0	0	0	0	-0.01	-0.35	2	2	0	2400	2400	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/25/2024 10:17	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 10:17	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
9/25/2024 10:17	64704	LITI_T1	0	0	0	0	0	0	0.03	0.01	1	1	0	600	600	0
9/25/2024 10:17	46101	MACI_T2	0	0	0	0	0	0	-0.65	-0.78	2	2	0	2400	2400	0
9/25/2024 10:18	64801	MONE_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/25/2024 10:18	64802	MONE_T2	0	0	0	0	0	0	0.3	0.33	0	0	0	0	0	0
9/25/2024 10:18	46506	LOHA_T1	3	3	0	5.47	5.53	0.06	0	0	0	0	0	0	0	0
9/25/2024 10:18	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 10:18	46504	LOHA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 10:18	14201	EALL_T1	0	0	0	0	0	0	0.53	0.57	0	0	0	0	0	0
9/25/2024 10:20	10103	ALLE_T3	0	17	17	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 10:20	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 10:21	55002	NEWP_T1	5	5	0	0.46	0.58	0.12	-0.24	-0.22	0	0	0	0	0	0
9/25/2024 10:21	55001	NEWP_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
9/25/2024 10:25	10805	CHHI_T2	1	1	0	7.8	7.9	0.1	-1.1	-1.11	2	2	0	1800	1800	0
9/25/2024 10:34	53502	EVIL_T2	0	0	0	0	0	0	0.25	0.14	2	2	0	1200	1200	0
9/25/2024 10:34	53501	EVIL_T2	2	2	0	0.65	0.75	0.1	0	0	0	0	0	0	0	0
9/25/2024 10:35	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 10:36	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 10:37	14801	TREI_T2	0	1	1	0	0.1	0.1	0.34	0.35	0	0	0	0	0	0
9/25/2024 10:38	55002	NEWP_T1	4	5	1	0.58	0.7	0.12	-0.23	-0.25	0	0	0	0	0	0
9/25/2024 10:41	67603	WARW_T1	0	0	0	0	0	0	-0.08	-0.02	0	0	0	0	0	0
9/25/2024 10:41	67605	WARW_T1	22	23	1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
9/25/2024 10:43	67605	WARW_T1	22	23	1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
9/25/2024 10:43	67603	WARW_T1	0	0	0	0	0	0	-0.04	-0.01	0	0	0	0	0	0
9/25/2024 10:44	23203	HIRU_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
9/25/2024 10:46	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/25/2024 10:47	23203	HIRU_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
9/25/2024 10:48	23203	HIRU_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
9/25/2024 10:49	25402	LAHA_T2	0	0	0	0	0	0	-0.86	-0.85	0	0	0	0	0	0
9/25/2024 10:50	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 10:50	13905	SEID_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
9/25/2024 10:52	65603	QVIL_T2	0	0	0	0	0	0	0.7	0.69	0	0	0	0	0	0
9/25/2024 10:53	65503	MOJO_T2	0	0	0	0	0	0	-0.94	-0.91	1	1	0	900	900	0
9/25/2024 11:04	46102	MACI_T1	0	0	0	0	0	0	0.77	0.77	0	0	0	0	0	0
9/25/2024 11:08	54601	SUMM_T2	9	10	1	0.4	0.35	-0.05	-1.81	-1.81	2	2	0	2100	2100	0
9/25/2024 11:08	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/25/2024 11:08	67605	WARW_T1	19	14	-5	0.46	0.59	0.13	0	0	0	0	0	0	0	0
9/25/2024 11:09	67605	WARW_T1	19	14	-5	0.46	0.59	0.13	0	0	0	0	0	0	0	0
9/25/2024 11:09	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/25/2024 11:10	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/25/2024 11:10	67605	WARW_T1	19	14	-5	0.46	0.59	0.13	0	0	0	0	0	0	0	0
9/25/2024 11:10	54601	SUMM_T2	9	10	1	0.4	0.35	-0.05	-1.81	-1.81	2	2	0	2100	2100	0
9/25/2024 11:15	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/25/2024 11:15	54505	ENOL_T2	1	1	0	0.5	0.5	0	-1.37	-1.34	1	1	0	600	600	0
9/25/2024 11:31	23102	MOSC_T2	0	0	0	0	0	0	0	0	0	1	1	0	1200	1200
9/25/2024 11:34	40201	BEGA_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
9/25/2024 11:35	40201	BEGA_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
9/25/2024 11:37	17002	RIRO_T2	124	145	21	0.18	0.19	0.01	0.7	0.68	0	0	0	0	0	0
9/25/2024 11:38	67503	WEWI_T2	1	1	0	9	9.2	0.2	-0.23	-0.21	0	0	0	0	0	0
9/25/2024 11:41	67605	WARW_T1	12	24	12	0.44	0.46	0.02	0	0	0	0	0	0	0	0
9/25/2024 11:41	67603	WARW_T1	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
9/25/2024 11:42	67502	WEWI_T2	0	0	0	0	0	0	-0.22	-0.27	0	0	0	0	0	0
9/25/2024 11:42	67503	WEWI_T2	1	1	0	9	9.2	0.2	-0.23	-0.21	0	0	0	0	0	0
9/25/2024 11:43	67603	WARW_T1	0	0	0	0	0	0	-0.04	-0.1	0	0	0	0	0	0
9/25/2024 11:43	67605	WARW_T1	12	24	12	0.44	0.46	0.02	0	0	0	0	0	0	0	0
9/25/2024 11:50	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/25/2024 11:55	67201	TEHI_T1	0	1	1	0	0	0	1.41	1.42	1	1	0	900	900	0
9/25/2024 11:55	67203	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 11:59	44802	EDAN_T2	0	0	0	0	0	0	-0.59	-0.67	0	0	0	0	0	0
9/25/2024 11:59	44801	EDAN_T2	107	139	32	0.34	0.48	0.14	0	0	0	0	0	0	0	0
9/25/2024 12:00	65603	QVIL_T2	0	0	0	0	0	0	0.65	0.36	0	0	0	0	0	0
9/25/2024 12:06	65503	MOJO_T2	0	0	0	0	0	0	-0.84	-0.92	1	1	0	900	900	0
9/25/2024 12:08	43301	WATS_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
9/25/2024 12:08	43304	WATS_T2	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
9/25/2024 12:10	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.34	0	0	0	0	0	0
9/25/2024 12:10	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
9/25/2024 12:11	43304	WATS_T2	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
9/25/2024 12:11	43301	WATS_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
9/25/2024 12:15	61801	EELI_T2	0	0	0	0	0	0	-0.76	-0.81	1	1	0	600	600	0
9/25/2024 12:17	11203	ELHE_T1	0	0	0	0	0	0	1.13	1.07	0	0	0	0	0	0
9/25/2024 12:21	65603	QVIL_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
9/25/2024 12:23	54601	SUMM_T2	10	12	2	0.34	0.38	0.04	-1.78	-1.78	2	2	0	2100	2100	0
9/25/2024 12:37	43304	WATS_T2	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
9/25/2024 12:37	47401	PENS_T1	4	0	-4	0.15	0	-0.15	-0.52	-0.6	0	0	0	0	0	0
9/25/2024 12:37	43301	WATS_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
9/25/2024 12:37	47402	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/25/2024 12:37	47403	PENS_T1	0	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0
9/25/2024 12:41	60102	COCA_T1	0	0	0	0	0	0	0.94	0.93	2	2	0	1200	1200	0
9/25/2024 12:45	55102	WERT_T2	0	0	0	0	0	0	0.28	-0.73	1	1	0	600	600	0
9/25/2024 12:50	52001	LING_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
9/25/2024 12:57	16101	BING_T2	0	0	0	0	0	0	0.4	0.45	0	0	0	0	0	0
9/25/2024 12:57	60801	BUCK_T1	0	0	0	0	0	0	-0.06	0.05	0	0	0	0	0	0
9/25/2024 13:01	45802	HEGI_T2	10	1	-9	0.49	0	-0.49	1.55	1.34	0	0	0	0	0	0
9/25/2024 13:02	45802	HEGI_T2	10	1	-9	0.49	0	-0.49	1.55	1.34	0	0	0	0	0	0
9/25/2024 13:07	55002	NEWP_T1	5	4	-1	0.48	0.8	0.32	-0.14	-0.16	0	0	0	0	0	0
9/25/2024 13:07	47401	PENS_T1	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
9/25/2024 13:07	47403	PENS_T1	1	1	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
9/25/2024 13:09	16301	ALPA_T1	0	1	1	0	0	0	0.13	0.14	0	0	0	0	0	0
9/25/2024 13:09	43302	WATS_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
9/25/2024 13:09	43301	WATS_T2	1	1	0	0.5	0.8	0.3	-0.65	-0.62	1	1	0	900	900	0
9/25/2024 13:10	16301	ALPA_T1	0	1	1	0	0	0	0.26	0.28	0	0	0	0	0	0
9/25/2024 13:11	16301	ALPA_T1	0	1	1	0	0	0	0.26	0.28	0	0	0	0	0	0
9/25/2024 13:19	40201	BEGA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/25/2024 13:20	40201	BEGA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/25/2024 13:25	28102	TWLA_T2	4	4	0	0.2	0.2	0	0.18	0.18	0	0	0	0	0	0
9/25/2024 13:45	41503	FAIR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/25/2024 13:45	41501	FAIR_T2	0	0	0	0	0	0	-0.86	-0.86	1	1	0	600	600	0
9/25/2024 13:49	24202	PROV_T4	1	1	0	2.5	0	-2.5	0	0	1	1	0	1200	1200	0
9/25/2024 13:54	54603	SUMM_T2	0	0	0	0	0	0	-0.03	0	1	1	0	900	900	0
9/25/2024 13:54	54601	SUMM_T2	10	54	44	0.38	0.47	0.09	0	0	0	0	0	0	0	0
9/25/2024 13:55	54601	SUMM_T2	10	54	44	0.38	0.47	0.09	0	0	0	0	0	0	0	0
9/25/2024 13:55	54603	SUMM_T2	0	0	0	0	0	0	-0.03	0	1	1	0	900	900	0
9/25/2024 14:03	65205	PRIN_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
9/25/2024 14:04	54601	SUMM_T2	10	11	1	0.35	0.47	0.12	-1.79	-1.8	2	2	0	2100	2100	0
9/25/2024 14:08	48301	ORWI_T1	2	2	0	5.15	5.3	0.15	-0.48	-0.62	1	1	0	900	900	0
9/25/2024 14:17	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/25/2024 14:20	52002	LING_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/25/2024 14:20	52006	LING_T2	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
9/25/2024 14:20	52004	LING_T2	2	2	0	6.15	6.15	0	0.37	0.35	0	0	0	0	0	0
9/25/2024 14:30	21501	CEAV_T2	0	0	0	0	0	0	0.27	0.42	1	1	0	1200	1200	0
9/25/2024 14:32	54202	PENN_T2	0	0	0	0	0	0	0.65	0.67	0	0	0	0	0	0
9/25/2024 14:33	64903	MILL_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
9/25/2024 14:34	48301	ORWI_T1	2	2	0	5.3	5.8	0.5	-0.62	-0.7	1	1	0	900	900	0
9/25/2024 14:36	64902	MILL_T2	0	0	0	0	0	0	-0.55	-0.57	1	1	0	900	900	0
9/25/2024 14:37	64903	MILL_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
9/25/2024 14:37	64902	MILL_T2	0	0	0	0	0	0	-0.57	-0.56	1	1	0	900	900	0
9/25/2024 14:38	48301	ORWI_T1	2	2	0	5.3	5.8	0.5	-0.7	-0.78	1	1	0	900	900	0
9/25/2024 14:39	67401	WAKE_T2	0	0	0	0	0	0	-0.71	-0.84	0	0	0	0	0	0
9/25/2024 14:41	54502	ENOL_T2	1	20	19	0.8	0.15	-0.65	-2.11	-2.1	1	1	0	600	600	0
9/25/2024 14:41	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
9/25/2024 14:43	60102	COCA_T1	0	0	0	0	0	0	1.41	1.91	2	2	0	1200	1200	0
9/25/2024 14:45	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/25/2024 14:45	28703	HAML_T2	3	3	0	0.2	0.43	0.23	0	0	0	0	0	0	0	0
9/25/2024 14:46	54502	ENOL_T2	1	20	19	0.8	0.15	-0.65	0	0	0	0	0	0	0	0
9/25/2024 14:46	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 14:46	54505	ENOL_T2	1	1	0	0.9	1	0.1	-1.34	-1.36	1	1	0	600	600	0
9/25/2024 14:51	66504	SMAN_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
9/25/2024 14:51	66505	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/25/2024 14:52	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 14:52	66505	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/25/2024 14:53	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/25/2024 14:53	54601	SUMM_T2	13	13	0	0.4	0.71	0.31	-1.79	-1.78	2	2	0	2100	2100	0
9/25/2024 14:56	66502	SMAN_T2	0	0	0	0	0	0	0.07	0.2	0	0	0	0	0	0
9/25/2024 14:56	65804	RTWN_T1	0	0	0	0	0	0	0.74	0.78	1	1	0	600	600	0
9/25/2024 14:56	66505	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
9/25/2024 14:57	10801	CHHI_T1	0	0	0	0	0	0	-0.7	-0.71	1	1	0	900	900	0
9/25/2024 14:57	54601	SUMM_T2	13	13	0	0.4	0.71	0.31	-1.79	-1.78	2	2	0	2100	2100	0
9/25/2024 14:57	65804	RTWN_T1	0	0	0	0	0	0	0.74	0.78	1	1	0	600	600	0
9/25/2024 14:57	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/25/2024 14:58	50623	CCTY_T2	5	5	0	5.58	5.28	-0.3	0	0	0	0	0	0	0	0
9/25/2024 14:58	50624	CCTY_T2	2	2	0	5.95	5.7	-0.25	0	0	0	0	0	0	0	0
9/25/2024 14:58	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 14:58	50625	CCTY_T2	4	6	2	3.23	2.25	-0.98	0	0	0	0	0	0	0	0
9/25/2024 14:59	65804	RTWN_T1	0	0	0	0	0	0	0.74	0.78	1	1	0	600	600	0
9/25/2024 15:07	58401	MORO_T1	0	0	0	0	0	0	-2.48	-2.42	0	0	0	0	0	0
9/25/2024 15:08	16504	STRO_T1	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
9/25/2024 15:21	28102	TWLA_T2	15	15	0	0.5	0.63	0.13	0.19	0.18	0	0	0	0	0	0
9/25/2024 15:37	67503	WEWI_T2	1	1	0	9.1	9.1	0	0	0	0	0	0	0	0	0
9/25/2024 15:37	67502	WEWI_T2	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
9/25/2024 15:38	14802	TREI_T2	1	0	-1	0.1	0	-0.1	0.41	0.43	0	0	0	0	0	0
9/25/2024 15:38	14801	TREI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/25/2024 15:40	24801	VALM_T1	0	0	0	0	0	0	-0.26	-0.33	0	0	0	0	0	0
9/25/2024 15:42	50701	SMEC_T1	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
9/25/2024 15:49	57401	SPAN_T1	2	2	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
9/25/2024 15:49	57403	SPAN_T1	40	59	19	0.27	0.23	-0.04	0.03	0.03	0	0	0	0	0	0
9/25/2024 15:50	16902	MECK_T1	0	3	3	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0
9/25/2024 15:50	16901	MECK_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/25/2024 16:55	46004	BERW_T2	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
9/25/2024 20:09	17002	RIRO_T2	0	1	1	0	0.1	0.1	0.39	0.38	0	0	0	0	0	0
9/25/2024 20:12	24202	PROV_T4	1	0	-1	1.7	0	-1.7	0	0	1	1	0	1200	1200	0
9/25/2024 20:18	20201	JERM_T1	0	0	0	0	0	0	1.64	1.72	0	0	0	0	0	0
9/25/2024 20:18	16101	BING_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/25/2024 20:20	16301	ALPA_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
9/25/2024 20:20	54601	SUMM_T2	5	9	4	0.16	0.39	0.23	-1.75	-1.8	2	2	0	2100	2100	0
9/25/2024 20:21	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/25/2024 20:21	54601	SUMM_T2	5	9	4	0.16	0.39	0.23	-1.75	-1.8	2	2	0	2100	2100	0
9/25/2024 20:21	54505	ENOL_T2	1	1	0	0.3	0.6	0.3	-1.29	-1.3	1	1	0	600	600	0
9/25/2024 20:21	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/25/2024 20:23	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 20:24	47401	PENS_T1	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
9/25/2024 20:24	47403	PENS_T1	0	16	16	0	0.15	0.15	0	0	0	0	0	0	0	0
9/25/2024 20:25	46004	BERW_T2	0	0	0	0	0	0	-0.21	-0.17	0	0	0	0	0	0
9/25/2024 20:25	14801	TREI_T2	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
9/25/2024 20:25	46003	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/25/2024 20:26	54202	PENN_T2	0	0	0	0	0	0	0.56	0.61	0	0	0	0	0	0
9/25/2024 20:26	55002	NEWP_T1	3	3	0	0.67	0.73	0.06	-0.2	-0.27	0	0	0	0	0	0
9/25/2024 20:27	52004	LING_T2	2	2	0	6.25	6.45	0.2	0.17	0.16	0	0	0	0	0	0
9/25/2024 20:27	52006	LING_T2	2	2	0	0.75	1	0.25	0	0	0	0	0	0	0	0
9/25/2024 20:27	52002	LING_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
9/25/2024 20:27	65804	RTWN_T1	0	0	0	0	0	0	0.66	0.42	1	1	0	600	600	0
9/25/2024 20:28	50623	CCTY_T2	5	5	0	5.68	5.18	-0.5	0	0	0	0	0	0	0	0
9/25/2024 20:28	54505	ENOL_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/25/2024 20:28	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 20:28	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 20:28	13905	SEID_T1	0	0	0	0	0	0	0.36	0.35	1	0	0	0	0	0
9/25/2024 20:28	54502	ENOL_T2	0	1	1	0	0.3	0.3	-2.01	-2.02	1	1	0	600	600	0
9/25/2024 20:28	50624	CCTY_T2	2	2	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
9/25/2024 20:28	50625	CCTY_T2	6	6	0	2.33	2.33	0	0	0	0	0	0	0	0	0
9/25/2024 20:29	65502	MOJO_T2	247	297	50	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/25/2024 20:29	65503	MOJO_T2	29	103	74	0.1	0.14	0.04	-0.19	-0.19	0	0	0	0	0	0
9/25/2024 20:29	10805	CHHI_T2	1	1	0	7.7	7.4	-0.3	-1.26	-0.48	1	0	-1	600	0	-600
9/25/2024 20:29	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 20:29	64903	MILL_T2	0	0	0	0	0	0	0.62	0.52	0	0	0	0	0	0
9/25/2024 20:30	67502	WEWI_T2	32	0	-32	0.16	0	-0.16	0	0	0	0	0	0	0	0
9/25/2024 20:30	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/25/2024 20:30	67503	WEWI_T2	1	1	0	8.4	7.9	-0.5	-0.14	-0.12	0	0	0	0	0	0
9/25/2024 20:30	54601	SUMM_T2	8	12	4	0.25	0.41	0.16	-1.8	-1.82	2	2	0	2100	2100	0
9/25/2024 20:30	65502	MOJO_T2	272	297	25	0.21	0.3	0.09	0	0	0	0	0	0	0	0
9/25/2024 20:30	65503	MOJO_T2	29	103	74	0.11	0.14	0.03	-0.19	-0.19	0	0	0	0	0	0
9/25/2024 20:31	54601	SUMM_T2	8	12	4	0.25	0.41	0.16	0	0	0	0	0	0	0	0
9/25/2024 20:31	16301	ALPA_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
9/25/2024 20:31	54603	SUMM_T2	0	0	0	0	0	0	-0.05	-0.08	1	1	0	900	900	0
9/25/2024 20:32	48301	ORWI_T1	2	2	0	4.2	4.4	0.2	0.23	0.29	0	0	0	0	0	0
9/25/2024 20:32	67503	WEWI_T2	1	1	0	8.4	7.9	-0.5	0	0	0	0	0	0	0	0
9/25/2024 20:32	67502	WEWI_T2	32	0	-32	0.16	0	-0.16	-1.31	-0.37	1	0	-1	900	0	-900
9/25/2024 20:32	52001	LING_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
9/25/2024 20:33	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	-1.3	-1.3	1	1	0	600	600	0
9/25/2024 20:33	54502	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/25/2024 20:33	64902	MILL_T2	0	0	0	0	0	0	-0.58	-0.58	1	1	0	900	900	0
9/25/2024 20:33	53502	EVIL_T2	0	0	0	0	0	0	0.95	0.92	0	0	0	0	0	0
9/25/2024 20:33	53501	EVIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/25/2024 20:34	16301	ALPA_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
9/25/2024 20:35	43302	WATS_T2	4	4	0	0.6	0.63	0.03	0	0	0	0	0	0	0	0
9/25/2024 20:35	43304	WATS_T2	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
9/25/2024 20:35	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/25/2024 20:36	16301	ALPA_T1	0	0	0	0	0	0	0.08	-0.01	0	0	0	0	0	0
9/25/2024 20:36	48301	ORWI_T1	2	2	0	4.2	4.4	0.2	0.29	0.2	0	0	0	0	0	0
9/25/2024 20:36	14201	EALL_T1	0	0	0	0	0	0	0.49	0.57	0	0	0	0	0	0
9/25/2024 20:37	23203	HIRU_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
9/25/2024 20:37	67502	WEWI_T2	32	0	-32	0.16	0	-0.16	-0.37	-0.41	0	0	0	0	0	0
9/25/2024 20:37	67503	WEWI_T2	1	1	0	8.4	7.9	-0.5	0	0	0	0	0	0	0	0
9/25/2024 20:38	65205	PRIN_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
9/25/2024 20:38	67605	WARW_T1	8	8	0	0.26	0.29	0.03	0	0	0	0	0	0	0	0
9/25/2024 20:38	67603	WARW_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
9/25/2024 20:38	58401	MORO_T1	0	0	0	0	0	0	-1.18	-1.16	1	1	0	600	600	0
9/25/2024 20:38	66504	SMAN_T2	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
9/25/2024 20:39	10801	CHHI_T1	0	0	0	0	0	0	-1.33	-1.37	2	2	0	1500	1500	0
9/25/2024 20:39	25402	LAHA_T2	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
9/25/2024 20:39	64902	MILL_T2	0	0	0	0	0	0	-0.58	-0.53	1	1	0	900	900	0
9/25/2024 20:39	16504	STRO_T1	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
9/25/2024 20:39	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 20:39	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
9/25/2024 20:39	61801	EELI_T2	0	1	1	0	0.3	0.3	-0.81	-0.81	1	1	0	600	600	0
9/25/2024 20:40	23203	HIRU_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
9/25/2024 20:41	43301	WATS_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
9/25/2024 20:41	50704	SMEC_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
9/25/2024 20:41	43302	WATS_T2	4	4	0	0.6	0.63	0.03	0	0	0	0	0	0	0	0
9/25/2024 20:41	55002	NEWP_T1	2	5	3	0.75	0.5	-0.25	-0.27	-0.26	0	0	0	0	0	0
9/25/2024 20:42	64704	LITI_T1	0	0	0	0	0	0	0.29	0.26	1	1	0	600	600	0
9/25/2024 20:42	67603	WARW_T1	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
9/25/2024 20:42	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 20:42	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/25/2024 20:42	64802	MONE_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
9/25/2024 20:42	67605	WARW_T1	8	8	0	0.26	0.29	0.03	0	0	0	0	0	0	0	0
9/25/2024 20:42	67401	WAKE_T2	0	0	0	0	0	0	-0.81	-0.79	0	0	0	0	0	0
9/25/2024 20:43	58401	MORO_T1	0	0	0	0	0	0	-1.18	-1.16	1	1	0	600	600	0
9/25/2024 20:43	23102	MOSC_T2	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
9/25/2024 20:43	16301	ALPA_T1	0	0	0	0	0	0	0.08	-0.01	0	0	0	0	0	0
9/25/2024 20:44	67605	WARW_T1	8	8	0	0.26	0.29	0.03	0	0	0	0	0	0	0	0
9/25/2024 20:44	44801	EDAN_T2	216	241	25	0.55	0.54	-0.01	0	0	0	0	0	0	0	0
9/25/2024 20:44	67603	WARW_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
9/25/2024 20:44	44802	EDAN_T2	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
9/25/2024 20:44	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
9/25/2024 20:45	67605	WARW_T1	5	12	7	0.24	0.33	0.09	0	0	0	0	0	0	0	0
9/25/2024 20:45	67604	WARW_T1	0	0	0	0	0	0	0.5	0.53	0	0	0	0	0	0
9/25/2024 20:45	48301	ORWI_T1	2	2	0	4.2	4.4	0.2	0.29	0.2	0	0	0	0	0	0
9/25/2024 20:45	13503	MCMI_T2	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/25/2024 20:46	28102	TWLA_T2	4	10	6	0.15	0.27	0.12	0.19	0.18	0	0	0	0	0	0
9/25/2024 20:46	67605	WARW_T1	5	12	7	0.24	0.33	0.09	0	0	0	0	0	0	0	0
9/25/2024 20:46	23201	HIRU_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/25/2024 20:46	23203	HIRU_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
9/25/2024 20:46	67604	WARW_T1	0	0	0	0	0	0	0.5	0.53	0	0	0	0	0	0
9/25/2024 20:46	40201	BEGA_T2	5	6	1	0.14	0.18	0.04	0	0	0	0	0	0	0	0
9/25/2024 20:47	67605	WARW_T1	5	12	7	0.24	0.33	0.09	0	0	0	0	0	0	0	0
9/25/2024 20:47	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
9/25/2024 20:47	67603	WARW_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
9/25/2024 20:47	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.39	0	0	0	0	0	0
9/25/2024 20:48	67603	WARW_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
9/25/2024 20:48	67605	WARW_T1	5	12	7	0.24	0.33	0.09	0	0	0	0	0	0	0	0
9/25/2024 20:48	57403	SPAN_T1	13	30	17	0.24	0.33	0.09	0.04	0.06	0	0	0	0	0	0
9/25/2024 20:48	46101	MACI_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
9/25/2024 20:48	45802	HEGI_T2	47	48	1	1.14	1.89	0.75	0.67	0.69	0	0	0	0	0	0
9/25/2024 20:48	57401	SPAN_T1	3	3	0	2.3	1	-1.3	0	0	0	0	0	0	0	0
9/25/2024 20:48	67604	WARW_T1	0	0	0	0	0	0	0.5	0.53	0	0	0	0	0	0
9/25/2024 20:48	67503	WEWI_T2	1	1	0	7.8	7.9	0.1	-0.12	-0.17	0	0	0	0	0	0
9/25/2024 20:49	55001	NEWP_T1	0	4	4	0	0.1	0.1	-0.1	-0.12	0	0	0	0	0	0
9/25/2024 20:49	60803	BUCK_T1	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
9/25/2024 20:49	60801	BUCK_T1	0	3	3	0	0.13	0.13	-0.2	-0.18	0	0	0	0	0	0
9/25/2024 20:49	55002	NEWP_T1	3	6	3	0.73	0.65	-0.08	0	0	0	0	0	0	0	0
9/25/2024 20:50	24105	EHAZ_T1	4	4	0	5.9	5.93	0.03	0	0	0	0	0	0	0	0
9/25/2024 20:50	24901	WHHA_T1	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
9/25/2024 20:50	24104	EHAZ_T1	0	0	0	0	0	0	-0.84	-0.86	1	1	0	1200	1200	0
9/25/2024 20:51	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
9/25/2024 20:51	43304	WATS_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
9/25/2024 20:51	46501	LOHA_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
9/25/2024 20:51	46504	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/25/2024 20:51	54601	SUMM_T2	9	13	4	0.39	0.42	0.03	0	0	0	0	0	0	0	0
9/25/2024 20:51	43302	WATS_T2	4	4	0	0.63	0.75	0.12	0	0	0	0	0	0	0	0
9/25/2024 20:51	46506	LOHA_T1	3	3	0	5.63	5.53	-0.1	0	0	0	0	0	0	0	0
9/25/2024 20:51	54603	SUMM_T2	0	0	0	0	0	0	-0.08	-0.14	1	1	0	900	900	0
9/25/2024 20:52	46102	MACI_T1	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
9/25/2024 20:52	60102	COCA_T1	0	0	0	0	0	0	0.47	0.58	2	2	0	1200	1200	0
9/25/2024 20:52	46101	MACI_T2	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
9/25/2024 20:53	24801	VALM_T1	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
9/25/2024 20:54	54601	SUMM_T2	9	13	4	0.39	0.42	0.03	-1.8	-1.72	2	2	0	2100	2100	0
9/25/2024 20:55	45802	HEGI_T2	47	48	1	1.14	1.89	0.75	0.69	0.53	0	0	0	0	0	0
9/25/2024 20:56	46504	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/25/2024 20:56	46501	LOHA_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
9/25/2024 20:56	67201	TEHI_T1	0	0	0	0	0	0	-0.09	-0.17	1	1	0	900	900	0
9/25/2024 20:56	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
9/25/2024 20:56	46506	LOHA_T1	3	3	0	5.63	5.53	-0.1	0	0	0	0	0	0	0	0
9/25/2024 21:16	41501	FAIR_T2	0	0	0	0	0	0	-0.45	-0.49	0	0	0	0	0	0
9/25/2024 21:16	41503	FAIR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/25/2024 21:21	55001	NEWP_T1	4	6	2	0.1	0.1	0	0	0	0	0	0	0	0	0
9/25/2024 21:21	55002	NEWP_T1	6	6	0	0.65	0.82	0.17	-0.28	-0.28	0	0	0	0	0	0
9/25/2024 21:36	11203	ELHE_T1	0	0	0	0	0	0	1.09	0.9	0	0	0	0	0	0
9/25/2024 22:04	65603	QVIL_T2	0	7	7	0	0.11	0.11	0.08	0.08	0	0	0	0	0	0
9/25/2024 22:04	65604	QVIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/25/2024 22:04	65602	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/25/2024 22:04	65601	QVIL_T2	89	122	33	0.18	0.22	0.04	0	0	0	0	0	0	0	0
9/26/2024 0:08	21501	CEAV_T2	0	0	0	0	0	0	1.1	1.05	0	0	0	0	0	0
9/26/2024 7:22	66302	MCGO_T2	0	0	0	0	0	0	-0.96	-0.96	1	1	0	600	600	0
9/26/2024 9:14	63305	GREE_T1	1	1	0	0.2	0.2	0	-1.8	-1.66	1	1	0	900	900	0
9/26/2024 9:15	63305	GREE_T1	1	0	-1	0.2	0	-0.2	-1.8	-1.66	1	1	0	900	900	0
9/26/2024 9:20	67001	STHI_T2	1	1	0	0.1	0.2	0.1	0.08	0.07	0	0	0	0	0	0
9/26/2024 9:21	43801	SWIL_T1	2	3	1	2.7	5.3	2.6	0	0	0	0	0	0	0	0
9/26/2024 9:21	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.18	1	1	0	600	600	0
9/26/2024 9:23	67001	STHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
9/26/2024 9:23	67002	STHI_T2	0	0	0	0	0	0	0.84	0.82	0	0	0	0	0	0
9/26/2024 9:42	67001	STHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/26/2024 9:42	67002	STHI_T2	0	0	0	0	0	0	0.82	0.84	0	0	0	0	0	0
9/26/2024 9:51	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 10:00	28805	LAKE_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
9/26/2024 10:00	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/26/2024 10:00	67503	WEWI_T2	1	1	0	8.9	8.9	0	-0.09	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/26/2024 10:00	52402	GRPA_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/26/2024 10:00	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/26/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
9/26/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-1.29	-1.17	1	1	0	600	600	0
9/26/2024 10:00	59002	MIFF_T1	0	5	5	0	0.36	0.36	0	0	0	0	0	0	0	0
9/26/2024 10:00	59003	MIFF_T1	0	1	1	0	0.4	0.4	-0.42	-0.36	0	0	0	0	0	0
9/26/2024 10:00	52403	GRPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 10:00	28803	LAKE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.97	-0.97	0	0	0	0	0	0
9/26/2024 10:00	11203	ELHE_T1	0	0	0	0	0	0	1.43	1.1	0	0	0	0	0	0
9/26/2024 10:00	54601	SUMM_T2	3	4	1	0.3	0.28	-0.02	-1.77	-1.73	2	2	0	2100	2100	0
9/26/2024 10:00	28102	TWLA_T2	8	13	5	0.31	0.43	0.12	0.17	0.17	0	0	0	0	0	0
9/26/2024 10:08	65603	QVIL_T2	0	0	0	0	0	0	-0.2	-0.17	0	0	0	0	0	0
9/26/2024 10:14	44505	HAMI_T2	0	0	0	0	0	0	-0.14	0.01	0	0	0	0	0	0
9/26/2024 10:14	44502	HAMI_T2	1	1	0	2.4	2.2	-0.2	0	0	0	0	0	0	0	0
9/26/2024 10:23	54505	ENOL_T2	1	1	0	0.5	0.5	0	-1.32	-1.33	1	1	0	600	600	0
9/26/2024 10:23	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 10:23	54502	ENOL_T2	2	2	0	1.45	0.2	-1.25	0	0	0	0	0	0	0	0
9/26/2024 10:23	54506	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 10:24	43801	SWIL_T1	1	2	1	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
9/26/2024 10:24	43802	SWIL_T1	0	0	0	0	0	0	-0.16	-0.16	1	1	0	600	600	0
9/26/2024 10:25	22003	BOHE_T1	174	226	52	0.2	0.32	0.12	0	0	0	0	0	0	0	0
9/26/2024 10:25	22001	BOHE_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
9/26/2024 10:28	22002	BOHE_T1	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
9/26/2024 10:28	22003	BOHE_T1	174	226	52	0.2	0.32	0.12	0	0	0	0	0	0	0	0
9/26/2024 10:35	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0.35	0.37	0	0	0	0	0	0
9/26/2024 10:37	57401	SPAN_T1	3	4	1	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
9/26/2024 10:37	57403	SPAN_T1	2	4	2	0.1	0.1	0	0.05	0.06	0	0	0	0	0	0
9/26/2024 10:37	67502	WEWI_T2	1	0	-1	0.2	0	-0.2	-0.2	-0.13	0	0	0	0	0	0
9/26/2024 10:37	67503	WEWI_T2	1	1	0	8.9	8.6	-0.3	0	0	0	0	0	0	0	0
9/26/2024 10:38	58402	MORO_T1	0	0	0	0	0	0	-0.05	0.05	2	2	0	1500	1500	0
9/26/2024 10:39	10805	CHHI_T2	1	1	0	7.5	8.2	0.7	-1.55	-0.8	2	1	-1	1800	1200	-600
9/26/2024 10:40	46001	BERW_T1	0	0	0	0	0	0	0.03	0.95	0	0	0	0	0	0
9/26/2024 10:47	52001	LING_T1	0	0	0	0	0	0	0.17	0.21	0	0	0	0	0	0
9/26/2024 10:48	53501	EVIL_T2	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
9/26/2024 10:48	53502	EVIL_T2	0	0	0	0	0	0	0.29	0.39	2	2	0	1200	1200	0
9/26/2024 10:50	55001	NEWP_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
9/26/2024 10:50	55002	NEWP_T1	6	6	0	0.75	0.68	-0.07	0	0	0	0	0	0	0	0
9/26/2024 10:52	13303	ORVI_T1	0	0	0	0	0	0	-0.1	-0.05	0	0	0	0	0	0
9/26/2024 10:53	55101	WERT_T1	0	0	0	0	0	0	-1.48	-1.6	2	2	0	1200	1200	0
9/26/2024 10:54	55101	WERT_T1	0	0	0	0	0	0	-0.74	-0.8	1	1	0	600	600	0
9/26/2024 10:55	50105	HARR_T3	6	6	0	6.43	6.32	-0.11	0	0	0	0	0	0	0	0
9/26/2024 10:55	50107	HARR_T3	1	1	0	6.5	6.2	-0.3	0	0	0	0	0	0	0	0
9/26/2024 10:55	50103	HARR_T3	2	2	0	0.3	0.5	0.2	0	0	1	1	0	1200	1200	0
9/26/2024 10:55	50201	HARR_T3	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/26/2024 10:57	55101	WERT_T1	0	0	0	0	0	0	-0.74	-0.8	1	1	0	600	600	0
9/26/2024 11:04	53501	EVIL_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
9/26/2024 11:04	53502	EVIL_T2	0	0	0	0	0	0	0.39	0.3	2	2	0	1200	1200	0
9/26/2024 11:17	65503	MOJO_T2	0	0	0	0	0	0	-0.69	-0.74	1	1	0	900	900	0
9/26/2024 11:36	66504	SMAN_T2	0	0	0	0	0	0	-1.3	-1.33	1	1	0	1200	1200	0
9/26/2024 11:38	65205	PRIN_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/26/2024 11:41	66504	SMAN_T2	0	0	0	0	0	0	-2.65	-2.66	2	2	0	2400	2400	0
9/26/2024 11:42	16101	BING_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
9/26/2024 11:45	25402	LAHA_T2	0	0	0	0	0	0	-0.77	-0.74	0	0	0	0	0	0
9/26/2024 11:47	65502	MOJO_T2	0	0	0	0	0	0	-1	-0.17	2	2	0	1800	1800	0
9/26/2024 11:52	43302	WATS_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
9/26/2024 11:52	64101	REFR_T1	1	5	4	0.2	0.1	-0.1	-0.01	-0.01	0	0	0	0	0	0
9/26/2024 11:52	43301	WATS_T2	1	1	0	0.2	0.4	0.2	-0.63	-0.61	1	1	0	900	900	0
9/26/2024 11:55	67203	TEHI_T1	0	0	0	0	0	0	2.36	2.77	3	3	0	2100	2100	0
9/26/2024 11:55	67201	TEHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/26/2024 12:04	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/26/2024 12:04	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/26/2024 12:06	13303	ORVI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/26/2024 12:08	67604	WARW_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
9/26/2024 12:08	67605	WARW_T1	9	15	6	0.23	0.31	0.08	0	0	0	0	0	0	0	0
9/26/2024 12:09	20401	ASHF_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/26/2024 12:09	20403	ASHF_T2	6	5	-1	0.25	0.22	-0.03	0.06	0.06	0	0	0	0	0	0
9/26/2024 12:10	67604	WARW_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
9/26/2024 12:10	67605	WARW_T1	9	15	6	0.23	0.31	0.08	0	0	0	0	0	0	0	0
9/26/2024 12:11	67604	WARW_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
9/26/2024 12:11	67605	WARW_T1	9	15	6	0.23	0.31	0.08	0	0	0	0	0	0	0	0
9/26/2024 12:11	44301	BEAV_T2	0	0	0	0	0	0	0.55	0.54	1	1	0	600	600	0
9/26/2024 12:12	61801	EELI_T2	0	0	0	0	0	0	-0.59	-0.63	1	1	0	600	600	0
9/26/2024 12:12	52202	DEVO_T2	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
9/26/2024 12:12	44301	BEAV_T2	0	0	0	0	0	0	0.55	0.54	1	1	0	600	600	0
9/26/2024 12:13	67703	WERN_T2	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
9/26/2024 12:13	52202	DEVO_T2	0	0	0	0	0	0	1.31	1.27	0	0	0	0	0	0
9/26/2024 12:14	24104	EHAZ_T1	0	0	0	0	0	0	-0.69	-0.68	1	1	0	1200	1200	0
9/26/2024 12:14	24101	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 12:14	24105	EHAZ_T1	4	4	0	6	6.33	0.33	0	0	0	0	0	0	0	0
9/26/2024 12:18	64701	LITI_T1	0	0	0	0	0	0	0.35	0.48	0	0	0	0	0	0
9/26/2024 12:27	45501	DERR_T2	0	0	0	0	0	0	1.23	1.77	6	6	0	5400	5400	0
9/26/2024 12:28	67604	WARW_T1	0	0	0	0	0	0	0.1	0.14	0	0	0	0	0	0
9/26/2024 12:28	44801	EDAN_T2	40	60	20	0.31	0.42	0.11	-1.62	-1.64	0	0	0	0	0	0
9/26/2024 12:28	67605	WARW_T1	15	8	-7	0.31	0.21	-0.1	0	0	0	0	0	0	0	0
9/26/2024 12:29	44801	EDAN_T2	40	60	20	0.31	0.42	0.11	-1.62	-1.64	0	0	0	0	0	0
9/26/2024 12:35	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
9/26/2024 12:35	15702	TANN_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
9/26/2024 12:37	55101	WERT_T1	0	0	0	0	0	0	-0.64	-0.7	1	1	0	600	600	0
9/26/2024 12:40	55101	WERT_T1	0	0	0	0	0	0	-1.28	-1.39	2	2	0	1200	1200	0
9/26/2024 12:40	45302	WBER_T2	0	0	0	0	0	0	0.95	0.93	0	0	0	0	0	0
9/26/2024 12:40	45303	WBER_T2	1	1	0	9.6	9.7	0.1	0	0	0	0	0	0	0	0
9/26/2024 12:41	67605	WARW_T1	8	2	-6	0.21	0.15	-0.06	0	0	0	0	0	0	0	0
9/26/2024 12:41	67603	WARW_T1	0	0	0	0	0	0	0.02	0.05	0	0	0	0	0	0
9/26/2024 12:43	44801	EDAN_T2	52	59	7	0.4	0.41	0.01	-1.64	-1.6	0	0	0	0	0	0
9/26/2024 12:51	47401	PENS_T1	0	0	0	0	0	0	-0.41	-0.3	0	0	0	0	0	0
9/26/2024 12:51	47403	PENS_T1	1	1	0	1	1.8	0.8	0	0	0	0	0	0	0	0
9/26/2024 12:51	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/26/2024 12:51	47402	PENS_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
9/26/2024 12:53	14801	TREI_T2	0	0	0	0	0	0	0.45	0.4	0	0	0	0	0	0
9/26/2024 12:54	14801	TREI_T2	0	0	0	0	0	0	0.45	0.4	0	0	0	0	0	0
9/26/2024 12:55	43802	SWIL_T1	0	0	0	0	0	0	-0.15	-0.14	1	1	0	600	600	0
9/26/2024 12:55	10801	CHHI_T1	0	1	1	0	0.2	0.2	-1.17	-1.14	2	2	0	1500	1500	0
9/26/2024 12:55	43801	SWIL_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
9/26/2024 12:58	54601	SUMM_T2	0	0	0	0	0	0	-1.7	-1.67	2	2	0	2100	2100	0
9/26/2024 13:00	45802	HEGI_T2	0	11	11	0	0.3	0.3	0.55	0.71	1	1	0	900	900	0
9/26/2024 13:01	64305	LINC_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
9/26/2024 13:01	64303	LINC_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
9/26/2024 13:01	45802	HEGI_T2	0	11	11	0	0.3	0.3	0.55	0.71	1	1	0	900	900	0
9/26/2024 13:09	44801	EDAN_T2	48	52	4	0.34	0.3	-0.04	-1.63	-1.61	0	0	0	0	0	0
9/26/2024 13:10	67402	WAKE_T2	0	0	0	0	0	0	0.5	0.51	1	1	0	600	600	0
9/26/2024 13:12	67402	WAKE_T2	0	0	0	0	0	0	0.5	0.51	1	1	0	600	600	0
9/26/2024 13:21	14203	EALL_T1	0	1	1	0	7.3	7.3	0	0	0	0	0	0	0	0
9/26/2024 13:21	14201	EALL_T1	0	0	0	0	0	0	0.62	0.68	0	0	0	0	0	0
9/26/2024 13:22	13704	SCHN_T2	0	2	2	0	0.1	0.1	0.06	-0.11	0	0	0	0	0	0
9/26/2024 13:23	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 13:27	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 13:31	20603	GRWO_T2	0	0	0	0	0	0	-0.61	-0.58	1	1	0	900	900	0
9/26/2024 13:34	15601	NSTR_T2	3	3	0	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
9/26/2024 13:34	15603	NSTR_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
9/26/2024 13:35	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 13:36	15604	NSTR_T1	0	0	0	0	0	0	0.07	0.11	0	0	0	0	0	0
9/26/2024 13:36	22701	MINO_T1	0	0	0	0	0	0	-0.9	-0.91	1	1	0	600	600	0
9/26/2024 13:42	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/26/2024 13:42	54506	ENOL_T2	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
9/26/2024 13:42	54502	ENOL_T2	0	1	1	0	0.2	0.2	-2.06	-2.04	1	1	0	600	600	0
9/26/2024 13:44	20201	JERM_T1	0	0	0	0	0	0	-0.39	-0.29	2	2	0	2400	2400	0
9/26/2024 13:46	53501	EVIL_T2	2	3	1	0.3	1.1	0.8	-0.08	-0.25	2	2	0	1200	1200	0
9/26/2024 13:49	65501	MOJO_T1	0	0	0	0	0	0	-0.85	-0.93	1	1	0	900	900	0
9/26/2024 14:11	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 14:11	50625	CCTY_T2	4	4	0	3.15	3.18	0.03	0	0	0	0	0	0	0	0
9/26/2024 14:11	50624	CCTY_T2	2	2	0	5.85	6.15	0.3	0	0	0	0	0	0	0	0
9/26/2024 14:11	50623	CCTY_T2	5	5	0	5.68	5.68	0	0	0	0	0	0	0	0	0
9/26/2024 14:17	64301	LINC_T1	0	0	0	0	0	0	0.04	0.25	1	1	0	600	600	0
9/26/2024 14:18	10205	ALLE_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/26/2024 14:18	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 14:19	64301	LINC_T1	0	0	0	0	0	0	0.04	0.25	1	1	0	600	600	0
9/26/2024 14:20	64301	LINC_T1	0	0	0	0	0	0	0.04	0.25	1	1	0	600	600	0
9/26/2024 14:22	55101	WERT_T1	0	0	0	0	0	0	-0.85	-0.67	1	1	0	600	600	0
9/26/2024 14:24	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 14:25	66504	SMAN_T2	0	0	0	0	0	0	-3.84	-4.21	3	3	0	3600	3600	0
9/26/2024 14:27	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 14:34	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 14:41	66502	SMAN_T2	0	0	0	0	0	0	0.36	0.28	0	0	0	0	0	0
9/26/2024 14:46	64305	LINC_T1	0	0	0	0	0	0	0.33	0.25	0	0	0	0	0	0
9/26/2024 14:50	22701	MINO_T1	0	0	0	0	0	0	-0.87	-0.95	1	1	0	600	600	0
9/26/2024 14:51	64305	LINC_T1	0	0	0	0	0	0	0.33	0.25	0	0	0	0	0	0
9/26/2024 14:54	46203	DANV_T2	1	1	0	8.8	8.9	0.1	0	0	0	0	0	0	0	0
9/26/2024 14:54	46206	DANV_T2	1	2	1	0.4	2.7	2.3	3.83	3.71	4	4	0	4200	4200	0
9/26/2024 14:57	65603	QVIL_T2	0	0	0	0	0	0	-0.56	-0.31	0	0	0	0	0	0
9/26/2024 14:58	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/26/2024 14:59	21901	HUMB_T1	0	0	0	0	0	0	-2.25	-2.27	0	0	0	0	0	0
9/26/2024 15:00	22701	MINO_T1	0	0	0	0	0	0	-0.95	-0.93	1	1	0	600	600	0
9/26/2024 16:19	54502	ENOL_T2	0	0	0	0	0	0	-1.76	-1.96	1	1	0	600	600	0
9/26/2024 16:19	54506	ENOL_T2	1	1	0	1.5	2	0.5	0	0	0	0	0	0	0	0
9/26/2024 16:19	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
9/26/2024 17:05	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 17:06	22701	MINO_T1	0	0	0	0	0	0	-0.93	-0.85	1	1	0	600	600	0
9/26/2024 20:16	44505	HAMI_T2	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
9/26/2024 20:16	44502	HAMI_T2	1	1	0	3.2	3.5	0.3	0	0	0	0	0	0	0	0
9/26/2024 20:23	25402	LAHA_T2	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
9/26/2024 20:28	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 20:28	22002	BOHE_T1	0	0	0	0	0	0	0.28	0.35	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/26/2024 20:35	14801	TREI_T2	0	0	0	0	0	0	0.58	0.51	0	0	0	0	0	0
9/26/2024 20:36	46206	DANV_T2	1	1	0	0.1	0	-0.1	1.25	1.3	2	2	0	2100	2100	0
9/26/2024 20:36	46203	DANV_T2	1	1	0	7.8	7.8	0	0	0	0	0	0	0	0	0
9/26/2024 20:37	67503	WEWI_T2	1	1	0	7.2	7.7	0.5	0	0	0	0	0	0	0	0
9/26/2024 20:37	67502	WEWI_T2	6	21	15	0.17	0.15	-0.02	-1.26	-1.24	1	1	0	900	900	0
9/26/2024 20:38	16101	BING_T2	0	0	0	0	0	0	0.58	0.53	0	0	0	0	0	0
9/26/2024 20:39	22001	BOHE_T1	0	0	0	0	0	0	-0.2	-0.22	1	1	0	600	600	0
9/26/2024 20:40	15604	NSTR_T1	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
9/26/2024 20:41	67503	WEWI_T2	1	1	0	7.2	7.7	0.5	0	0	0	0	0	0	0	0
9/26/2024 20:41	67502	WEWI_T2	6	21	15	0.17	0.15	-0.02	-1.26	-1.24	1	1	0	900	900	0
9/26/2024 20:42	67203	TEHI_T1	1	0	-1	0.2	0	-0.2	2.67	2.69	2	2	0	1500	1500	0
9/26/2024 20:42	21901	HUMB_T1	0	0	0	0	0	0	-0.85	-0.87	0	0	0	0	0	0
9/26/2024 20:42	43801	SWIL_T1	11	29	18	0.85	0.42	-0.43	0	0	0	0	0	0	0	0
9/26/2024 20:42	14801	TREI_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
9/26/2024 20:42	43802	SWIL_T1	0	0	0	0	0	0	-0.02	-0.01	1	1	0	600	600	0
9/26/2024 20:42	10801	CHHI_T1	0	0	0	0	0	0	-1.25	-1.27	2	2	0	1500	1500	0
9/26/2024 20:43	45302	WBER_T2	0	0	0	0	0	0	0.94	0.97	0	0	0	0	0	0
9/26/2024 20:43	45303	WBER_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/26/2024 20:43	24105	EHAZ_T1	4	4	0	5.93	5.8	-0.13	0	0	0	0	0	0	0	0
9/26/2024 20:43	24104	EHAZ_T1	0	0	0	0	0	0	-0.78	-0.77	1	1	0	1200	1200	0
9/26/2024 20:44	10109	ALLE_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 20:44	64701	LITI_T1	0	0	0	0	0	0	0.34	0.38	0	0	0	0	0	0
9/26/2024 20:44	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 20:44	15601	NSTR_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
9/26/2024 20:44	10205	ALLE_T3	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
9/26/2024 20:44	15603	NSTR_T2	0	0	0	0	0	0	-0.3	-0.26	0	0	0	0	0	0
9/26/2024 20:44	65502	MOJO_T2	0	0	0	0	0	0	-1.35	-1.4	1	1	0	900	900	0
9/26/2024 20:45	65502	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/26/2024 20:45	46001	BERW_T1	0	0	0	0	0	0	0.43	0.38	0	0	0	0	0	0
9/26/2024 20:45	66504	SMAN_T2	0	0	0	0	0	0	-1.41	-1.41	1	1	0	1200	1200	0
9/26/2024 20:45	10805	CHHI_T2	1	1	0	8.4	8	-0.4	-0.94	-0.85	1	1	0	600	600	0
9/26/2024 20:45	14201	EALL_T1	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
9/26/2024 20:45	47403	PENS_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/26/2024 20:45	47401	PENS_T1	0	0	0	0	0	0	-0.49	-0.46	0	0	0	0	0	0
9/26/2024 20:45	65503	MOJO_T2	0	1	1	0	0	0	-0.06	0	0	0	0	0	0	0
9/26/2024 20:46	50103	HARR_T3	2	2	0	0.55	0.8	0.25	0	0	1	1	0	1200	1200	0
9/26/2024 20:46	50202	HARR_T3	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/26/2024 20:46	50201	HARR_T3	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
9/26/2024 20:46	50623	CCTY_T2	5	5	0	5.82	5.18	-0.64	0	0	0	0	0	0	0	0
9/26/2024 20:46	50107	HARR_T3	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
9/26/2024 20:46	50625	CCTY_T2	6	7	1	2.15	2.23	0.08	0	0	0	0	0	0	0	0
9/26/2024 20:46	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 20:46	66504	SMAN_T2	0	0	0	0	0	0	-1.41	-1.41	1	1	0	1200	1200	0
9/26/2024 20:46	50105	HARR_T3	6	6	0	5.97	5.88	-0.09	0	0	0	0	0	0	0	0
9/26/2024 20:46	24702	FLND_T2	0	0	0	0	0	0	0	0	2	0	-2	2400	0	-2400
9/26/2024 20:46	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 20:46	50624	CCTY_T2	2	2	0	5.7	5.65	-0.05	0	0	0	0	0	0	0	0
9/26/2024 20:46	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 20:47	44801	EDAN_T2	60	83	23	0.29	0.43	0.14	-1.58	-1.62	0	0	0	0	0	0
9/26/2024 20:47	14801	TREI_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
9/26/2024 20:47	46206	DANV_T2	0	1	1	0	0	0	1.25	1.3	2	2	0	2100	2100	0
9/26/2024 20:47	46203	DANV_T2	1	1	0	7.8	7.8	0	0	0	0	0	0	0	0	0
9/26/2024 20:47	45501	DERR_T2	0	0	0	0	0	0	1.36	1.35	4	4	0	3600	3600	0
9/26/2024 20:47	13303	ORVI_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
9/26/2024 20:47	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 20:47	55101	WERT_T1	0	0	0	0	0	0	-1.28	-1.36	1	1	0	600	600	0
9/26/2024 20:48	64301	LINC_T1	0	0	0	0	0	0	-0.25	-0.28	1	1	0	600	600	0
9/26/2024 20:48	45501	DERR_T2	0	0	0	0	0	0	0.68	0.68	2	2	0	1800	1800	0
9/26/2024 20:48	66504	SMAN_T2	0	0	0	0	0	0	-5.65	-5.65	4	4	0	4800	4800	0
9/26/2024 20:48	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/26/2024 20:48	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
9/26/2024 20:48	43801	SWIL_T1	17	32	15	0.61	0.42	-0.19	0	0	0	0	0	0	0	0
9/26/2024 20:48	43802	SWIL_T1	0	0	0	0	0	0	-0.02	-0.01	1	1	0	600	600	0
9/26/2024 20:48	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	-1.19	-1.16	1	1	0	600	600	0
9/26/2024 20:48	20401	ASHF_T2	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
9/26/2024 20:49	55101	WERT_T1	0	0	0	0	0	0	-1.28	-1.36	1	1	0	600	600	0
9/26/2024 20:49	44801	EDAN_T2	60	83	23	0.29	0.43	0.14	-1.58	-1.62	0	0	0	0	0	0
9/26/2024 20:49	61801	EELI_T2	0	0	0	0	0	0	-0.74	-0.72	1	1	0	600	600	0
9/26/2024 20:49	45802	HEGI_T2	9	17	8	0.34	0.38	0.04	0.41	0.42	0	0	0	0	0	0
9/26/2024 20:50	43302	WATS_T2	0	4	4	0	0.55	0.55	0	0	0	0	0	0	0	0
9/26/2024 20:50	67402	WAKE_T2	0	0	0	0	0	0	-0.16	-0.23	1	1	0	600	600	0
9/26/2024 20:50	43301	WATS_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
9/26/2024 20:51	44301	BEAV_T2	0	0	0	0	0	0	0.23	0.22	1	1	0	600	600	0
9/26/2024 20:51	65205	PRIN_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
9/26/2024 20:51	67605	WARW_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
9/26/2024 20:51	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/26/2024 20:51	15702	TANN_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
9/26/2024 20:51	15703	TANN_T2	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
9/26/2024 20:51	67603	WARW_T1	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
9/26/2024 20:52	13303	ORVI_T1	0	0	0	0	0	0	-0.08	-0.02	0	0	0	0	0	0
9/26/2024 20:52	67604	WARW_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
9/26/2024 20:52	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26/2024 20:52	53502	EVIL_T2	0	0	0	0	0	0	1.04	1.03	0	0	0	0	0	0
9/26/2024 20:52	67605	WARW_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
9/26/2024 20:52	53501	EVIL_T2	2	1	-1	0.25	1	0.75	0	0	0	0	0	0	0	0
9/26/2024 20:53	55002	NEWP_T1	6	6	0	0.65	0.83	0.18	0	0	0	0	0	0	0	0
9/26/2024 20:53	55101	WERT_T1	0	0	0	0	0	0	-2.72	-1.77	2	2	0	1200	1200	0
9/26/2024 20:53	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
9/26/2024 20:53	20603	GRWO_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
9/26/2024 20:53	55001	NEWP_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
9/26/2024 20:53	45802	HEGI_T2	9	17	8	0.34	0.38	0.04	0.42	0.47	0	0	0	0	0	0
9/26/2024 20:53	13704	SCHN_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
9/26/2024 20:53	52202	DEVO_T2	0	1	1	0	0	0	0.62	0.63	0	0	0	0	0	0
9/26/2024 20:53	52001	LING_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
9/26/2024 20:54	67605	WARW_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
9/26/2024 20:54	57403	SPAN_T1	3	24	21	2.77	0.23	-2.54	0	0	0	0	0	0	0	0
9/26/2024 20:54	67604	WARW_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
9/26/2024 20:54	57403	SPAN_T1	8	16	8	0.13	0.21	0.08	0.12	0.12	0	0	0	0	0	0
9/26/2024 20:54	58402	MORO_T1	0	0	0	0	0	0	-0.14	-0.12	2	2	0	1500	1500	0
9/26/2024 20:54	55101	WERT_T1	0	0	0	0	0	0	-1.36	-0.89	1	1	0	600	600	0
9/26/2024 20:54	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/26/2024 20:54	67402	WAKE_T2	0	0	0	0	0	0	-0.23	-0.21	1	1	0	600	600	0
9/26/2024 20:55	64305	LINC_T1	0	0	0	0	0	0	-0.27	-0.34	0	0	0	0	0	0
9/26/2024 20:56	64101	REFR_T1	155	197	42	0.45	0.39	-0.06	-0.01	-0.01	0	0	0	0	0	0
9/26/2024 20:57	55101	WERT_T1	0	0	0	0	0	0	-1.36	-0.89	1	1	0	600	600	0
9/26/2024 20:57	65501	MOJO_T1	0	0	0	0	0	0	-1.04	-1.15	1	1	0	900	900	0
9/26/2024 20:59	44801	BEAV_T2	0	0	0	0	0	0	0.23	0.22	1	1	0	600	600	0
9/26/2024 20:59	20201	JERM_T1	0	0	0	0	0	0	-0.35	-0.44	2	2	0	2400	2400	0
9/26/2024 20:59	64305	LINC_T1	0	0	0	0	0	0	-0.27	-0.34	0	0	0	0	0	0
9/26/2024 21:28	55101	WERT_T1	0	0	0	0	0	0	-0.89	-0.93	1	1	0	600	600	0
9/26/2024 22:05	65502	MOJO_T2	37	0	-37	0.1	0	-0.1	-1.53	-1.56	1	1	0	900	900	0
9/27/2024 8:15	14706	TREX_T1	0	0	0	0	0	0	-0.18	-0.27	2	2	0	2100	2100	0
9/27/2024 8:15	14704	TREX_T1	1	1	0	3.9	4	0.1	0	0	0	0	0	0	0	0
9/27/2024 8:45	66302	MCGO_T2	0	0	0	0	0	0	-0.68	-0.75	1	1	0	600	600	0
9/27/2024 8:51	27603	PIRI_T2	0	0	0	0	0	0	-1.18	-1.21	2	2	0	1800	1800	0
9/27/2024 8:57	27301	PARR_T1	0	0	0	0	0	0	-0.91	-0.91	0	0	0	0	0	0
9/27/2024 8:57	65702	RVIL_T2	0	0	0	0	0	0	-0.82	-0.8	1	1	0	600	600	0
9/27/2024 9:01	58706	ROSE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 9:01	58701	ROSE_T2	0	0	0	0	0	0	-0.79	-0.79	0	0	0	0	0	0
9/27/2024 9:01	13201	PALM_T1	0	0	0	0	0	0	-0.37	-0.34	0	0	0	0	0	0
9/27/2024 9:01	43402	BENT_T1	0	0	0	0	0	0	-0.43	-0.41	1	1	0	600	600	0
9/27/2024 9:01	58705	ROSE_T2	5	5	0	1.46	1.52	0.06	0	0	0	0	0	0	0	0
9/27/2024 9:02	66302	MCGO_T2	0	0	0	0	0	0	-0.75	-0.88	1	1	0	600	600	0
9/27/2024 9:03	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 9:03	24901	WHHA_T1	0	0	0	0	0	0	0.5	0.56	0	0	0	0	0	0
9/27/2024 9:05	43108	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/27/2024 9:05	43103	SMIL_T2	12	16	4	0.38	0.41	0.03	0	0	0	0	0	0	0	0
9/27/2024 9:05	67504	WEWI_T1	0	0	0	0	0	0	-0.06	-0.05	1	1	0	900	900	0
9/27/2024 9:05	43102	SMIL_T2	4	4	0	0.45	0.38	-0.07	-0.75	-0.77	1	1	0	600	600	0
9/27/2024 9:06	57401	SPAN_T1	2	3	1	0.4	0.25	-0.15	-0.73	-0.7	1	1	0	600	600	0
9/27/2024 9:08	44901	SCOT_T2	0	0	0	0	0	0	0	-0.17	0	0	0	0	0	0
9/27/2024 9:14	15203	SFAR_T2	0	0	0	0	0	0	-1.11	-1.16	0	0	0	0	0	0
9/27/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	0.51	-0.03	0	0	0	0	0	0
9/27/2024 10:00	67503	WEWI_T2	1	1	0	7.7	8.4	0.7	0.07	0.08	0	0	0	0	0	0
9/27/2024 10:00	53501	EVIL_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
9/27/2024 10:00	52403	GRPA_T2	2	2	0	0.2	0.5	0.3	-0.56	-0.55	0	0	0	0	0	0
9/27/2024 10:00	53502	EVIL_T2	1	0	-1	0.2	0	-0.2	0.41	0.55	2	2	0	1200	1200	0
9/27/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
9/27/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.96	-0.94	0	0	0	0	0	0
9/27/2024 10:00	28102	TWLA_T2	6	4	-2	0.27	0.38	0.11	0.17	0.19	0	0	0	0	0	0
9/27/2024 10:00	59002	MIFF_T1	0	6	6	0	0.43	0.43	0	0	0	0	0	0	0	0
9/27/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-0.85	-0.8	1	1	0	600	600	0
9/27/2024 10:03	10206	ALLE_T2	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
9/27/2024 10:03	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 10:03	10102	ALLE_T2	1	1	0	6.9	7	0.1	0	0	0	0	0	0	0	0
9/27/2024 10:15	60502	NMAN_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
9/27/2024 10:16	14706	TREX_T1	0	0	0	0	0	0	-0.07	-0.17	2	2	0	2100	2100	0
9/27/2024 10:16	14704	TREX_T1	1	1	0	3.7	3.9	0.2	0	0	0	0	0	0	0	0
9/27/2024 10:21	53902	HALI_T2	1	1	0	4.3	5.3	1	0	0	0	0	0	0	0	0
9/27/2024 10:21	53901	HALI_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
9/27/2024 10:21	53903	HALI_T2	2	2	0	0.7	1	0.3	-0.17	-0.13	0	0	0	0	0	0
9/27/2024 10:35	28805	LAKE_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
9/27/2024 10:35	56801	BENV_T1	7	8	1	1.01	0.9	-0.11	0	0	0	0	0	0	0	0
9/27/2024 10:35	56803	BENV_T1	1	0	-1	3.9	0	-3.9	0.63	0.61	0	0	0	0	0	0
9/27/2024 10:36	13807	SALI_T1	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
9/27/2024 10:41	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
9/27/2024 10:41	15702	TANN_T2	0	0	0	0	0	0	-0.31	-0.38	0	0	0	0	0	0
9/27/2024 10:42	42801	SELI_T1	1	0	-1	8.3	0	-8.3	0	0	0	0	0	0	0	0
9/27/2024 10:42	11504	FREE_T1	0	0	0	0	0	0	-2.36	-2.33	2	2	0	2100	2100	0
9/27/2024 10:42	10801	CHHI_T1	0	0	0	0	0	0	-1.02	-1.07	2	2	0	1500	1500	0
9/27/2024 10:42	56802	BENV_T2	0	1	1	0	0.7	0.7	-0.75	-0.72	0	0	0	0	0	0
9/27/2024 10:42	42802	SELI_T1	0	0	0	0	0	0	-1.15	-1.19	0	0	0	0	0	0
9/27/2024 10:43	51306	WIND_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/27/2024 10:43	29402	BELT_T1	1	1	0	8.7	8.7	0	0	0	0	0	0	0	0	0
9/27/2024 10:43	52004	LING_T2	2	4	2	5	3.43	-1.57	0.49	0.51	0	0	0	0	0	0
9/27/2024 10:43	29401	BELT_T1	16	23	7	0.12	0.12	0	0	0	0	0	0	0	0	0
9/27/2024 10:45	46901	MNTG_T2	0	0	0	0	0	0	0.48	0.56	1	1	0	1200	1200	0
9/27/2024 10:45	55405	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 10:48	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
9/27/2024 10:48	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 10:48	46506	LOHA_T1	4	4	0	3.93	3.48	-0.45	0	0	0	0	0	0	0	0
9/27/2024 10:48	14404	SSLA_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
9/27/2024 10:58	45002	LIME_2	1	1	0	4.7	4.4	-0.3	0	0	0	0	0	0	0	0
9/27/2024 10:58	45003	LIME_2	1	1	0	2.7	2.9	0.2	0.38	0.42	0	0	0	0	0	0
9/27/2024 10:58	63305	GREE_T1	1	0	-1	0.1	0	-0.1	-1.85	-1.73	1	1	0	900	900	0
9/27/2024 11:00	61102	BERK_T5	0	0	0	0	0	0	-0.01	0.06	1	1	0	300	300	0
9/27/2024 11:00	25401	LAHA_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
9/27/2024 11:02	51202	MTON_T2	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
9/27/2024 11:04	46206	DANV_T2	1	3	2	2.3	0.83	-1.47	0	0	0	0	0	0	0	0
9/27/2024 11:04	46203	DANV_T2	1	1	0	6.5	6.6	0.1	-0.64	-0.63	0	0	0	0	0	0
9/27/2024 11:04	67401	WAKE_T2	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
9/27/2024 11:06	43302	WATS_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
9/27/2024 11:06	43304	WATS_T2	0	0	0	0	0	0	-0.36	-0.29	0	0	0	0	0	0
9/27/2024 11:06	43301	WATS_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
9/27/2024 11:08	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 11:09	62604	ENGL_T1	0	0	0	0	0	0	-0.42	-0.46	1	1	0	600	600	0
9/27/2024 11:10	16004	DORN_T1	0	0	0	0	0	0	-0.8	-0.77	1	1	0	1200	1200	0
9/27/2024 11:11	43302	WATS_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
9/27/2024 11:11	43301	WATS_T2	1	1	0	1	0.8	-0.2	-0.61	-0.6	1	1	0	900	900	0
9/27/2024 11:12	64603	LEOL_T1	0	0	0	0	0	0	-0.32	-0.32	1	1	0	600	600	0
9/27/2024 11:16	67605	WARW_T1	4	14	10	0.18	0.31	0.13	0	0	0	0	0	0	0	0
9/27/2024 11:16	15203	SFAR_T2	0	0	0	0	0	0	-1.1	-1.08	0	0	0	0	0	0
9/27/2024 11:16	67603	WARW_T1	0	0	0	0	0	0	0.07	0.11	0	0	0	0	0	0
9/27/2024 11:19	63802	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 11:19	63804	HEMP_T1	2	2	0	4.7	3.8	-0.9	-0.39	-0.45	0	0	0	0	0	0
9/27/2024 11:24	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
9/27/2024 11:27	13103	NHAM_T2	0	0	0	0	0	0	-1.57	-1.58	1	1	0	600	600	0
9/27/2024 11:27	52403	GRPA_T2	0	2	2	0	0.3	0.3	-0.51	-0.59	0	0	0	0	0	0
9/27/2024 11:27	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/27/2024 11:27	52404	GRPA_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
9/27/2024 11:29	47001	HUGH_T2	3	3	0	6.57	7.17	0.6	-0.44	-0.41	0	0	0	0	0	0
9/27/2024 11:32	15202	SFAR_T1	0	0	0	0	0	0	0.29	0.33	0	0	0	0	0	0
9/27/2024 11:39	60201	ATGL_T2	0	0	0	0	0	0	0.25	0.34	0	0	0	0	0	0
9/27/2024 11:40	64605	LEOL_T1	0	0	0	0	0	0	0.26	0.24	1	1	0	300	300	0
9/27/2024 11:49	67505	WEWI_T1	0	0	0	0	0	0	0.17	0.2	1	1	0	900	900	0
9/27/2024 11:54	67201	TEHI_T1	1	1	0	0.2	0.1	-0.1	0.51	0.57	2	2	0	1500	1500	0
9/27/2024 11:55	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
9/27/2024 11:55	44505	HAMI_T2	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
9/27/2024 11:56	63201	MGTN_T2	0	0	0	0	0	0	0.64	0.64	1	1	0	600	600	0
9/27/2024 11:56	21601	EYNO_T1	0	1	1	0	0.1	0.1	0.25	0.34	0	0	0	0	0	0
9/27/2024 11:56	61001	DONV_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
9/27/2024 11:56	51904	COPA_T1	5	5	0	0.42	0.64	0.22	-0.25	-0.28	1	1	0	600	600	0
9/27/2024 11:57	46701	RENO_T1	0	0	0	0	0	0	0.14	-0.03	0	0	0	0	0	0
9/27/2024 11:57	46506	LOHA_T1	4	4	0	3.65	4.08	0.43	0	0	0	0	0	0	0	0
9/27/2024 11:57	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
9/27/2024 11:58	61501	EPET_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
9/27/2024 11:58	61504	EPET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 12:00	43202	MVIL_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
9/27/2024 12:02	44801	EDAN_T2	38	33	-5	0.24	0.22	-0.02	-1.59	-1.59	0	0	0	0	0	0
9/27/2024 12:05	67604	WARW_T1	17	11	-6	0.42	0.35	-0.07	0	0	0	0	0	0	0	0
9/27/2024 12:05	67603	WARW_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
9/27/2024 12:10	64704	LITI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 12:12	40602	PIGR_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/27/2024 12:12	40603	PIGR_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
9/27/2024 12:12	40601	PIGR_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/27/2024 12:13	61102	BERK_T5	0	0	0	0	0	0	0.19	0.07	1	1	0	300	300	0
9/27/2024 12:15	46903	MNTG_T2	48	5	-43	0.15	0.24	0.09	0	0	0	0	0	0	0	0
9/27/2024 12:15	46901	MNTG_T2	0	0	0	0	0	0	0.42	0.49	1	1	0	1200	1200	0
9/27/2024 12:20	47103	MARL_T2	0	0	0	0	0	0	-0.86	-0.76	0	0	0	0	0	0
9/27/2024 12:22	13004	NBET_T2	0	0	0	0	0	0	-0.4	-0.37	1	1	0	600	600	0
9/27/2024 12:24	52001	LING_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
9/27/2024 12:24	64305	LINC_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
9/27/2024 12:28	51104	CARL_T1	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
9/27/2024 12:28	15703	TANN_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
9/27/2024 12:28	15702	TANN_T2	0	0	0	0	0	0	-0.28	-0.22	0	0	0	0	0	0
9/27/2024 12:28	51101	CARL_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
9/27/2024 12:29	57201	ROSS_T1	6	9	3	0.1	0.11	0.01	0	0	0	0	0	0	0	0
9/27/2024 12:29	12703	MACU_T2	0	0	0	0	0	0	-0.7	-0.76	0	0	0	0	0	0
9/27/2024 12:29	57205	ROSS_T1	0	1	1	0	0.4	0.4	0.33	0.35	0	0	0	0	0	0
9/27/2024 12:30	20601	GRWO_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
9/27/2024 12:31	62104	ELAN_T1	0	0	0	0	0	0	0.69	0.7	2	2	0	1500	1500	0
9/27/2024 12:33	55002	NEWP_T1	6	6	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
9/27/2024 12:33	48302	ORWI_T2	2	2	0	0.35	0.3	-0.05	0.08	0.11	0	0	0	0	0	0
9/27/2024 12:33	55001	NEWP_T1	0	0	0	0	0	0	-0.04	0.06	0	0	0	0	0	0
9/27/2024 12:40	11401	FARM_T1	0	0	0	0	0	0	0.74	0.76	0	0	0	0	0	0
9/27/2024 12:41	54601	SUMM_T2	6	9	3	0.27	0.3	0.03	-1.64	-1.65	2	2	0	2100	2100	0
9/27/2024 12:42	66402	ROBE_T1	0	0	0	0	0	0	-0.85	-0.68	2	2	0	1500	1500	0
9/27/2024 12:42	40801	EXCH_T2	0	0	0	0	0	0	-0.31	-0.33	1	1	0	1200	1200	0
9/27/2024 12:42	58102	NEKI_T1	1	1	0	1.2	1.3	0.1	-0.41	-0.53	1	1	0	1200	1200	0
9/27/2024 12:43	40502	CRES_T2	13	10	-3	0.31	0.18	-0.13	-0.28	-0.32	0	0	0	0	0	0
9/27/2024 12:43	44601	SALE_T2	2	0	-2	0.45	0	-0.45	0	0	1	1	0	300	300	0
9/27/2024 12:43	44903	SCOT_T1	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
9/27/2024 12:43	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 12:45	64404	LAND_T2	1	0	-1	0.1	0	-0.1	-1.81	-1.14	2	1	-1	1500	900	-600
9/27/2024 12:47	66001	RHEE_T2	0	0	0	0	0	0	-1.16	-1.12	2	2	0	2100	2100	0
9/27/2024 12:48	60103	COCA_T2	0	0	0	0	0	0	-2.08	-2.2	2	2	0	2100	2100	0
9/27/2024 12:54	44203	POIN_T2	0	0	0	0	0	0	-0.54	-0.63	2	2	0	2100	2100	0
9/27/2024 12:55	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/27/2024 13:00	66502	SMAN_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
9/27/2024 13:03	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
9/27/2024 13:03	54504	ENOL_T2	0	0	0	0	0	0	-1.06	-1.06	1	1	0	600	600	0
9/27/2024 13:03	43402	BENT_T1	0	1	1	0	0	0	-0.28	-0.37	1	1	0	600	600	0
9/27/2024 13:07	63801	HEMP_T1	0	0	0	0	0	0	-0.43	-0.48	1	1	0	900	900	0
9/27/2024 13:07	63804	HEMP_T1	1	1	0	6	6.4	0.4	0	0	0	0	0	0	0	0
9/27/2024 13:15	52001	LING_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
9/27/2024 13:39	24703	FLND_T2	0	0	0	0	0	0	1.55	1.17	0	0	0	0	0	0
9/27/2024 13:42	65901	SAKR_T2	1	1	0	7.8	7.9	0.1	0	0	0	0	0	0	0	0
9/27/2024 13:42	51904	COPA_T1	5	5	0	0.38	0.86	0.48	0	0	0	0	0	0	0	0
9/27/2024 13:42	51901	COPA_T1	0	0	0	0	0	0	0.13	0.02	0	0	0	0	0	0
9/27/2024 13:42	22003	BOHE_T1	12	216	204	0.16	0.24	0.08	-0.2	-0.2	0	0	0	0	0	0
9/27/2024 13:42	65903	SAKR_T2	0	0	0	0	0	0	-0.93	-0.9	3	3	0	2100	2100	0
9/27/2024 13:44	64701	LITI_T1	0	0	0	0	0	0	0.43	0.38	0	0	0	0	0	0
9/27/2024 13:45	14203	EALL_T1	0	0	0	0	0	0	0.02	-0.05	1	1	0	1200	1200	0
9/27/2024 13:45	55102	WERT_T2	0	0	0	0	0	0	-0.59	-0.41	1	1	0	600	600	0
9/27/2024 13:45	54603	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 13:45	54601	SUMM_T2	10	13	3	0.46	0.45	-0.01	-1.67	-1.65	2	2	0	2100	2100	0
9/27/2024 13:48	65901	SAKR_T2	1	1	0	7.9	7.7	-0.2	0	0	0	0	0	0	0	0
9/27/2024 13:48	65903	SAKR_T2	0	0	0	0	0	0	-0.93	-0.9	3	3	0	2100	2100	0
9/27/2024 13:55	44801	EDAN_T2	25	24	-1	0.2	0.17	-0.03	-1.58	-1.56	0	0	0	0	0	0
9/27/2024 13:56	57505	LAWN_T3	0	70	70	0	0.27	0.27	0	0	0	0	0	0	0	0
9/27/2024 13:56	11201	ELHE_T2	0	0	0	0	0	0	0.2	0.18	2	2	0	2400	2400	0
9/27/2024 13:56	57501	LAWN_T3	0	0	0	0	0	0	0	0.55	0	0	0	0	0	0
9/27/2024 13:56	57502	LAWN_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 13:57	15204	SFAR_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
9/27/2024 13:57	15203	SFAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/27/2024 13:58	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/27/2024 13:58	54503	ENOL_T2	0	0	0	0	0	0	-0.31	-0.33	1	1	0	600	600	0
9/27/2024 13:58	54502	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
9/27/2024 13:59	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 13:59	66504	SMAN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
9/27/2024 14:02	54601	SUMM_T2	11	13	2	0.45	0.46	0.01	-1.65	-1.67	2	2	0	2100	2100	0
9/27/2024 14:03	59003	MIFF_T1	0	0	0	0	0	0	0.64	-0.09	0	0	0	0	0	0
9/27/2024 14:03	59002	MIFF_T1	4	5	1	0.13	0.6	0.47	0	0	0	0	0	0	0	0
9/27/2024 14:09	44203	POIN_T2	0	0	0	0	0	0	-0.48	-0.31	2	2	0	2100	2100	0
9/27/2024 14:15	16102	BING_T2	0	0	0	0	0	0	0.07	0.07	1	1	0	1200	1200	0
9/27/2024 14:16	51702	OBER_T1	2	2	0	3.5	3.7	0.2	-1.33	-1.4	0	0	0	0	0	0
9/27/2024 14:20	11101	EGYP_T1	0	0	0	0	0	0	-0.03	-0.04	1	1	0	1200	1200	0
9/27/2024 15:01	66505	SMAN_T2	0	0	0	0	0	0	0.35	0.33	2	2	0	1500	1500	0
9/27/2024 15:02	54502	ENOL_T2	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/27/2024 15:02	54503	ENOL_T2	0	0	0	0	0	0	-0.31	-0.32	1	1	0	600	600	0
9/27/2024 15:02	54506	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 15:02	54505	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
9/27/2024 15:03	15604	NSTR_T1	0	0	0	0	0	0	0.13	0.17	0	0	0	0	0	0
9/27/2024 15:04	54502	ENOL_T2	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/27/2024 15:04	55001	NEWP_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
9/27/2024 15:04	54505	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
9/27/2024 15:04	54503	ENOL_T2	0	0	0	0	0	0	-0.31	-0.32	1	1	0	600	600	0
9/27/2024 15:04	54506	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 15:04	15604	NSTR_T1	0	0	0	0	0	0	0.13	0.17	0	0	0	0	0	0
9/27/2024 15:04	55002	NEWP_T1	5	5	0	1.06	1.22	0.16	0	0	0	0	0	0	0	0
9/27/2024 15:10	43801	SWIL_T1	2	2	0	2.7	3.1	0.4	0	0	0	0	0	0	0	0
9/27/2024 15:10	43802	SWIL_T1	0	0	0	0	0	0	-0.11	-0.1	1	1	0	600	600	0
9/27/2024 15:13	14204	EALL_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
9/27/2024 15:15	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
9/27/2024 15:15	54506	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 15:15	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/27/2024 15:15	54504	ENOL_T2	0	0	0	0	0	0	-1.13	-1.12	1	1	0	600	600	0
9/27/2024 15:19	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	-1.28	-1.26	1	1	0	600	600	0
9/27/2024 15:19	54506	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 15:19	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/27/2024 15:30	44505	HAMI_T2	0	0	0	0	0	0	0.25	0.3	0	0	0	0	0	0
9/27/2024 15:30	44502	HAMI_T2	1	1	0	3.2	3	-0.2	0	0	0	0	0	0	0	0
9/27/2024 15:33	44505	HAMI_T2	0	0	0	0	0	0	0.25	0.3	0	0	0	0	0	0
9/27/2024 15:33	44502	HAMI_T2	1	1	0	3.2	3	-0.2	0	0	0	0	0	0	0	0
9/27/2024 15:35	22701	MINO_T1	0	0	0	0	0	0	-0.92	-0.88	1	1	0	600	600	0
9/27/2024 15:43	22003	BOHE_T1	257	306	49	0.66	0.69	0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/27/2024 15:43	22002	BOHE_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
9/27/2024 15:43	40802	EXCH_T2	1	0	-1	0.1	0	-0.1	-0.25	-0.26	0	0	0	0	0	0
9/27/2024 15:43	22001	BOHE_T1	6	79	73	0.1	0.14	0.04	0	0	0	0	0	0	0	0
9/27/2024 15:43	40801	EXCH_T2	3	3	0	0.13	0.23	0.1	0	0	0	0	0	0	0	0
9/27/2024 16:04	10102	ALLE_T2	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
9/27/2024 16:04	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 16:04	10206	ALLE_T2	1	1	0	0.9	1.4	0.5	0	0	0	0	0	0	0	0
9/27/2024 16:06	14801	TREI_T2	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
9/27/2024 16:15	15203	SFAR_T2	0	0	0	0	0	0	-1.05	-1.06	0	0	0	0	0	0
9/27/2024 16:17	46602	LACR_T1	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
9/27/2024 16:17	14201	EALL_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
9/27/2024 16:30	24105	EHAZ_T1	4	4	0	6.23	6.13	-0.1	0	0	0	0	0	0	0	0
9/27/2024 16:30	24104	EHAZ_T1	0	0	0	0	0	0	-0.77	-0.83	1	1	0	1200	1200	0
9/27/2024 16:32	24104	EHAZ_T1	0	0	0	0	0	0	-0.77	-0.83	1	1	0	1200	1200	0
9/27/2024 16:32	24105	EHAZ_T1	4	4	0	6.23	6.13	-0.1	0	0	0	0	0	0	0	0
9/27/2024 16:43	43304	WATS_T2	0	1	1	0	0	0	-0.47	-0.46	0	0	0	0	0	0
9/27/2024 16:43	43302	WATS_T2	4	4	0	0.58	0.68	0.1	0	0	0	0	0	0	0	0
9/27/2024 16:59	43302	WATS_T2	4	4	0	0.45	0.78	0.33	0	0	0	0	0	0	0	0
9/27/2024 16:59	43301	WATS_T2	0	1	1	0	0.2	0.2	0.44	0.44	0	0	0	0	0	0
9/27/2024 16:59	43304	WATS_T2	0	2	2	0	0	0	-0.46	-0.52	0	0	0	0	0	0
9/27/2024 17:00	43304	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/27/2024 17:00	43302	WATS_T2	4	4	0	0.68	0.8	0.12	0	0	0	0	0	0	0	0
9/27/2024 17:00	43301	WATS_T2	0	1	1	0	0.2	0.2	0.44	0.44	0	0	0	0	0	0
9/27/2024 17:02	43304	WATS_T2	1	0	-1	0.3	0	-0.3	-0.46	-0.52	0	0	0	0	0	0
9/27/2024 17:02	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/27/2024 17:02	43302	WATS_T2	4	4	0	0.68	0.8	0.12	0	0	0	0	0	0	0	0
9/27/2024 17:04	65001	NEFF_T2	29	127	98	0.13	0.16	0.03	-1.02	-0.95	1	1	0	1200	1200	0
9/27/2024 17:04	65003	NEFF_T2	4	4	0	0.18	0.25	0.07	0	0	0	0	0	0	0	0
9/27/2024 17:57	22701	MINO_T1	0	0	0	0	0	0	-0.9	-0.86	1	1	0	600	600	0
9/27/2024 20:13	46602	LACR_T1	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
9/27/2024 20:14	14706	TREX_T1	1	1	0	1.7	1.6	-0.1	-0.47	-0.53	2	2	0	2100	2100	0
9/27/2024 20:16	47103	MARL_T2	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
9/27/2024 20:16	16004	DORN_T1	0	0	0	0	0	0	-0.74	-0.84	1	1	0	1200	1200	0
9/27/2024 20:19	63804	HEMP_T1	1	2	1	5.8	3.65	-2.15	-0.35	0.42	0	0	0	0	0	0
9/27/2024 20:21	52402	GRPA_T2	3	3	0	0.6	0.67	0.07	0	0	0	0	0	0	0	0
9/27/2024 20:21	29402	BELT_T1	1	1	0	8.1	8.4	0.3	0	0	0	0	0	0	0	0
9/27/2024 20:21	52403	GRPA_T2	0	2	2	0	0.3	0.3	0.02	0	0	0	0	0	0	0
9/27/2024 20:21	46701	RENO_T1	0	0	0	0	0	0	0.31	0.26	0	0	0	0	0	0
9/27/2024 20:21	55001	NEWP_T1	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
9/27/2024 20:21	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/27/2024 20:21	13807	SALI_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
9/27/2024 20:21	55002	NEWP_T1	6	6	0	0.78	0.77	-0.01	0	0	0	0	0	0	0	0
9/27/2024 20:22	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 20:22	10206	ALLE_T2	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
9/27/2024 20:22	10102	ALLE_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
9/27/2024 20:23	16102	BING_T2	0	0	0	0	0	0	-0.18	-0.18	1	1	0	1200	1200	0
9/27/2024 20:24	51904	COPA_T1	5	5	0	0.9	0.86	-0.04	-0.33	-0.31	1	1	0	600	600	0
9/27/2024 20:24	60502	NMAN_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
9/27/2024 20:24	46901	MNTG_T2	0	0	0	0	0	0	0.16	0.23	1	1	0	1200	1200	0
9/27/2024 20:24	40801	EXCH_T2	0	0	0	0	0	0	0.86	0.84	0	0	0	0	0	0
9/27/2024 20:25	47001	HUGH_T2	3	3	0	6.8	6.97	0.17	-0.61	-0.66	0	0	0	0	0	0
9/27/2024 20:25	52001	LING_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
9/27/2024 20:25	62604	ENGL_T1	0	0	0	0	0	0	-0.78	-0.82	1	1	0	600	600	0
9/27/2024 20:25	20601	GRWO_T2	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
9/27/2024 20:26	10206	ALLE_T2	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
9/27/2024 20:26	55001	NEWP_T1	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
9/27/2024 20:26	55002	NEWP_T1	6	6	0	0.78	0.77	-0.01	0	0	0	0	0	0	0	0
9/27/2024 20:26	10102	ALLE_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
9/27/2024 20:26	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 20:27	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
9/27/2024 20:27	14204	EALL_T2	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
9/27/2024 20:27	11101	EGYP_T1	0	0	0	0	0	0	1.31	1.28	0	0	0	0	0	0
9/27/2024 20:27	46504	LOHA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/27/2024 20:27	46506	LOHA_T1	3	3	0	5.87	6.03	0.16	0	0	0	0	0	0	0	0
9/27/2024 20:27	40802	EXCH_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
9/27/2024 20:27	45001	LIME_2	39	25	-14	0.54	0.23	-0.31	0	0	0	0	0	0	0	0
9/27/2024 20:27	45002	LIME_2	1	1	0	3.4	4.5	1.1	0	0	0	0	0	0	0	0
9/27/2024 20:27	45003	LIME_2	2	2	0	2.35	2.55	0.2	0.29	0.21	0	0	0	0	0	0
9/27/2024 20:28	51202	MTON_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
9/27/2024 20:28	12703	MACU_T2	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
9/27/2024 20:29	43402	BENT_T1	0	0	0	0	0	0	-0.6	-0.61	1	1	0	600	600	0
9/27/2024 20:29	43202	MVIL_T2	0	4	4	0	0.13	0.13	-0.67	-0.67	0	0	0	0	0	0
9/27/2024 20:29	58102	NEKI_T1	1	1	0	0.6	0.6	0	0.44	0.5	0	0	0	0	0	0
9/27/2024 20:29	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
9/27/2024 20:29	62104	ELAN_T1	0	0	0	0	0	0	0.62	0.67	1	1	0	1200	1200	0
9/27/2024 20:29	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 20:29	44502	HAMI_T2	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
9/27/2024 20:29	16902	MECK_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
9/27/2024 20:29	44505	HAMI_T2	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
9/27/2024 20:29	44903	SCOT_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
9/27/2024 20:29	62105	ELAN_T1	5	6	1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/27/2024 20:29	14801	TREI_T2	0	0	0	0	0	0	0.45	0.55	0	0	0	0	0	0
9/27/2024 20:30	66402	ROBE_T1	0	0	0	0	0	0	-1.25	-1.09	2	2	0	1500	1500	0
9/27/2024 20:30	43304	WATS_T2	1	1	0	0.4	0	-0.4	-0.23	-0.36	0	0	0	0	0	0
9/27/2024 20:30	53901	HALI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
9/27/2024 20:30	53902	HALI_T2	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
9/27/2024 20:30	15204	SFAR_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
9/27/2024 20:30	66401	ROBE_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
9/27/2024 20:30	15203	SFAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/27/2024 20:30	43302	WATS_T2	4	4	0	0.3	0.48	0.18	0	0	0	0	0	0	0	0
9/27/2024 20:30	43301	WATS_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/27/2024 20:30	53903	HALI_T2	2	2	0	0.8	1	0.2	-0.17	-0.17	0	0	0	0	0	0
9/27/2024 20:31	11202	ELHE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 20:31	11201	ELHE_T2	0	0	0	0	0	0	0.01	0.01	2	2	0	2400	2400	0
9/27/2024 20:32	54601	SUMM_T2	11	13	2	0.49	0.65	0.16	-1.8	-1.79	2	2	0	2100	2100	0
9/27/2024 20:32	52001	LING_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
9/27/2024 20:32	40603	PIGR_T1	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
9/27/2024 20:32	40601	PIGR_T1	35	109	74	0.13	0.18	0.05	0	0	0	0	0	0	0	0
9/27/2024 20:32	40602	PIGR_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
9/27/2024 20:32	11504	FREE_T1	0	0	0	0	0	0	-2.42	-2.29	2	2	0	2100	2100	0
9/27/2024 20:32	13103	NHAM_T2	0	0	0	0	0	0	-1.68	-1.68	1	1	0	600	600	0
9/27/2024 20:33	43302	WATS_T2	4	4	0	0.3	0.48	0.18	0	0	0	0	0	0	0	0
9/27/2024 20:33	44202	POIN_T2	58	63	5	0.18	0.22	0.04	0	0	0	0	0	0	0	0
9/27/2024 20:33	43304	WATS_T2	1	1	0	0.4	0	-0.4	-0.23	-0.36	0	0	0	0	0	0
9/27/2024 20:33	44203	POIN_T2	0	0	0	0	0	0	0.03	0.15	1	1	0	900	900	0
9/27/2024 20:33	15203	SFAR_T2	0	1	1	0	0.1	0.1	-1.13	-1.11	0	0	0	0	0	0
9/27/2024 20:33	66001	RHEE_T2	0	0	0	0	0	0	-1.87	-1.88	2	2	0	2100	2100	0
9/27/2024 20:33	14201	EALL_T1	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
9/27/2024 20:33	43301	WATS_T2	0	1	1	0	0.4	0.4	0.36	0.39	0	0	0	0	0	0
9/27/2024 20:34	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
9/27/2024 20:34	54601	SUMM_T2	11	13	2	0.49	0.65	0.16	-1.8	-1.79	2	2	0	2100	2100	0
9/27/2024 20:34	56803	BENV_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
9/27/2024 20:34	43304	WATS_T2	1	1	0	0.4	0	-0.4	-0.23	-0.36	0	0	0	0	0	0
9/27/2024 20:34	43302	WATS_T2	4	4	0	0.3	0.48	0.18	0	0	0	0	0	0	0	0
9/27/2024 20:34	56801	BENV_T1	12	11	-1	0.43	0.42	-0.01	0	0	0	0	0	0	0	0
9/27/2024 20:34	44801	EDAN_T2	139	174	35	0.44	0.52	0.08	-1.63	-1.63	0	0	0	0	0	0
9/27/2024 20:34	54504	ENOL_T2	0	0	0	0	0	0	-1.1	-1.06	1	1	0	600	600	0
9/27/2024 20:34	43301	WATS_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/27/2024 20:34	54506	ENOL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/27/2024 20:35	43302	WATS_T2	4	4	0	0.3	0.48	0.18	0	0	0	0	0	0	0	0
9/27/2024 20:35	13004	NBET_T2	0	0	0	0	0	0	-0.53	-0.57	1	1	0	600	600	0
9/27/2024 20:35	15604	NSTR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 20:35	43301	WATS_T2	0	1	1	0	0.4	0.4	0.36	0.39	0	0	0	0	0	0
9/27/2024 20:35	11405	FARM_T1	1	1	0	4.5	4.3	-0.2	0	0	0	0	0	0	0	0
9/27/2024 20:35	11401	FARM_T1	0	0	0	0	0	0	0.74	0.69	0	0	0	0	0	0
9/27/2024 20:35	43304	WATS_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/27/2024 20:35	55102	WERT_T2	0	0	0	0	0	0	-0.08	0	0	0	0	0	0	0
9/27/2024 20:36	43801	SWIL_T1	2	3	1	3.2	2.2	-1	0	0	0	0	0	0	0	0
9/27/2024 20:36	15703	TANN_T2	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
9/27/2024 20:36	48302	ORWI_T2	2	2	0	1.3	1.1	-0.2	-0.09	-0.07	0	0	0	0	0	0
9/27/2024 20:36	55405	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 20:36	46203	DANV_T2	1	1	0	8.6	8.7	0.1	-0.7	-0.71	0	0	0	0	0	0
9/27/2024 20:36	14404	SSLA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 20:36	61001	DONV_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
9/27/2024 20:36	67505	WEWI_T1	0	0	0	0	0	0	0.06	0.07	1	1	0	900	900	0
9/27/2024 20:36	44601	SALE_T2	0	0	0	0	0	0	0	0	1	1	0	300	300	0
9/27/2024 20:36	43802	SWIL_T1	0	0	0	0	0	0	-0.09	-0.11	1	1	0	600	600	0
9/27/2024 20:36	15702	TANN_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
9/27/2024 20:37	15202	SFAR_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
9/27/2024 20:37	44502	HAMI_T2	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
9/27/2024 20:37	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
9/27/2024 20:37	15203	SFAR_T2	0	1	1	0	0.1	0.1	-1.11	-1.15	0	0	0	0	0	0
9/27/2024 20:37	66502	SMAN_T2	0	0	0	0	0	0	-0.09	0.01	0	0	0	0	0	0
9/27/2024 20:37	44505	HAMI_T2	0	0	0	0	0	0	0.63	0.65	0	0	0	0	0	0
9/27/2024 20:37	54503	ENOL_T2	0	0	0	0	0	0	-0.32	-0.34	1	1	0	600	600	0
9/27/2024 20:37	54506	ENOL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/27/2024 20:38	28805	LAKE_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
9/27/2024 20:38	66504	SMAN_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
9/27/2024 20:38	25401	LAHA_T1	0	0	0	0	0	0	-0.39	-0.36	0	0	0	0	0	0
9/27/2024 20:38	64701	LITI_T1	0	0	0	0	0	0	0.25	0.32	0	0	0	0	0	0
9/27/2024 20:39	44502	HAMI_T2	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
9/27/2024 20:39	44505	HAMI_T2	0	0	0	0	0	0	0.63	0.65	0	0	0	0	0	0
9/27/2024 20:39	54506	ENOL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/27/2024 20:39	24104	EHAZ_T1	0	0	0	0	0	0	-0.82	-0.84	1	1	0	1200	1200	0
9/27/2024 20:39	15604	NSTR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 20:39	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	-1.27	-1.26	1	1	0	600	600	0
9/27/2024 20:39	24105	EHAZ_T1	4	4	0	6.1	5.98	-0.12	0	0	0	0	0	0	0	0
9/27/2024 20:40	51102	CARL_T1	13	61	48	0.12	0.18	0.06	0	0	0	0	0	0	0	0
9/27/2024 20:40	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
9/27/2024 20:40	54506	ENOL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/27/2024 20:40	51306	WIND_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
9/27/2024 20:40	43304	WATS_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/27/2024 20:40	43301	WATS_T2	0	1	1	0	0.4	0.4	0.39	0.36	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/27/2024 20:40	46504	LOHA_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/27/2024 20:40	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
9/27/2024 20:40	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/27/2024 20:40	46506	LOHA_T1	3	3	0	6	6.2	0.2	0	0	0	0	0	0	0	0
9/27/2024 20:40	51904	COPA_T1	5	5	0	0.8	0.98	0.18	0	0	0	0	0	0	0	0
9/27/2024 20:40	51101	CARL_T1	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
9/27/2024 20:40	43302	WATS_T2	4	4	0	0.3	0.48	0.18	0	0	0	0	0	0	0	0
9/27/2024 20:40	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 20:40	51104	CARL_T1	0	1	1	0	0	0	0.05	-0.01	0	0	0	0	0	0
9/27/2024 20:40	54503	ENOL_T2	0	0	0	0	0	0	-0.32	-0.34	1	1	0	600	600	0
9/27/2024 20:40	51901	COPA_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
9/27/2024 20:41	42802	SELI_T1	0	0	0	0	0	0	-1.54	-1.53	0	0	0	0	0	0
9/27/2024 20:41	63801	HEMP_T1	0	0	0	0	0	0	-0.15	0.01	0	0	0	0	0	0
9/27/2024 20:41	24105	EHAZ_T1	4	4	0	6.1	5.98	-0.12	0	0	0	0	0	0	0	0
9/27/2024 20:41	22003	BOHE_T1	186	210	24	0.19	0.22	0.03	-0.19	-0.2	0	0	0	0	0	0
9/27/2024 20:41	63804	HEMP_T1	2	2	0	5.2	3.65	-1.55	0	0	0	0	0	0	0	0
9/27/2024 20:41	10801	CHHI_T1	0	0	0	0	0	0	-1.33	-1.33	2	2	0	1500	1500	0
9/27/2024 20:41	63305	GREE_T1	1	3	2	0	0.1	0.1	-1.19	-1.19	0	0	0	0	0	0
9/27/2024 20:41	14203	EALL_T1	0	0	0	0	0	0	-0.32	-0.35	1	1	0	1200	1200	0
9/27/2024 20:41	24104	EHAZ_T1	0	0	0	0	0	0	-0.82	-0.84	1	1	0	1200	1200	0
9/27/2024 20:42	54506	ENOL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/27/2024 20:42	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
9/27/2024 20:42	43302	WATS_T2	4	4	0	0.3	0.48	0.18	0	0	0	0	0	0	0	0
9/27/2024 20:42	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 20:42	40502	CRES_T2	18	20	2	0.27	0.31	0.04	-0.41	-0.42	0	0	0	0	0	0
9/27/2024 20:42	22003	BOHE_T1	186	210	24	0.19	0.22	0.03	0	0	0	0	0	0	0	0
9/27/2024 20:42	59003	MIFF_T1	0	1	1	0	0.3	0.3	0.42	0.34	0	0	0	0	0	0
9/27/2024 20:42	59002	MIFF_T1	5	5	0	0.6	0.62	0.02	0	0	0	0	0	0	0	0
9/27/2024 20:42	43301	WATS_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
9/27/2024 20:42	54504	ENOL_T2	0	0	0	0	0	0	-1.06	-1.1	1	1	0	600	600	0
9/27/2024 20:42	43304	WATS_T2	1	1	0	0.4	0	-0.4	-0.36	-0.35	0	0	0	0	0	0
9/27/2024 20:42	22002	BOHE_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
9/27/2024 20:43	54503	ENOL_T2	0	0	0	0	0	0	-0.32	-0.34	1	1	0	600	600	0
9/27/2024 20:43	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
9/27/2024 20:43	54506	ENOL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/27/2024 20:45	67603	WARW_T1	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
9/27/2024 20:45	60201	ATGL_T2	0	2	2	0	0.15	0.15	-0.04	-0.03	0	0	0	0	0	0
9/27/2024 20:45	51702	OBER_T1	2	2	0	3.1	3.05	-0.05	-0.13	-0.16	0	0	0	0	0	0
9/27/2024 20:45	57201	ROSS_T1	1	17	16	0.1	0.14	0.04	0	0	0	0	0	0	0	0
9/27/2024 20:45	57205	ROSS_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
9/27/2024 20:45	21601	EYNO_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
9/27/2024 20:45	67605	WARW_T1	24	27	3	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/27/2024 20:46	54601	SUMM_T2	11	13	2	0.56	0.72	0.16	-1.79	-1.83	2	2	0	2100	2100	0
9/27/2024 20:46	64605	LEOL_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
9/27/2024 20:46	63201	MGTN_T2	0	0	0	0	0	0	0.62	0.56	1	1	0	600	600	0
9/27/2024 20:47	52006	LING_T2	2	2	0	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
9/27/2024 20:47	52002	LING_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
9/27/2024 20:47	66505	SMAN_T2	0	0	0	0	0	0	0.49	0.45	1	1	0	900	900	0
9/27/2024 20:47	65901	SAKR_T2	1	1	0	9.3	9.3	0	0	0	0	0	0	0	0	0
9/27/2024 20:47	65903	SAKR_T2	0	0	0	0	0	0	-1.13	-1.18	3	3	0	2100	2100	0
9/27/2024 20:47	40502	CRES_T2	20	6	-14	0.29	0.33	0.04	0	0	0	0	0	0	0	0
9/27/2024 20:47	64404	LAND_T2	0	0	0	0	0	0	-1.19	-1.21	1	1	0	900	900	0
9/27/2024 20:47	52004	LING_T2	2	2	0	6.35	6.45	0.1	0.2	0.18	0	0	0	0	0	0
9/27/2024 20:47	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 20:47	67401	WAKE_T2	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
9/27/2024 20:48	64305	LINC_T1	0	1	1	0	0.2	0.2	-0.4	-0.42	0	0	0	0	0	0
9/27/2024 20:48	64704	LITI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/27/2024 20:49	15702	TANN_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
9/27/2024 20:49	15703	TANN_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
9/27/2024 20:49	65001	NEFF_T2	4	61	57	0.18	0.15	-0.03	-1.08	-1.07	1	1	0	1200	1200	0
9/27/2024 20:50	64603	LEOL_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
9/27/2024 20:51	56802	BENV_T2	0	0	0	0	0	0	-0.06	-0.1	0	0	0	0	0	0
9/27/2024 20:51	60103	COCA_T2	0	0	0	0	0	0	-1.64	-1.77	1	1	0	1200	1200	0
9/27/2024 20:54	67201	TEHI_T1	0	0	0	0	0	0	-0.04	0.83	1	0	-1	900	0	-900
9/27/2024 21:01	44801	EDAN_T2	169	179	10	0.52	0.57	0.05	-1.64	-1.66	0	0	0	0	0	0
9/27/2024 22:14	57501	LAWN_T3	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
9/27/2024 22:14	57505	LAWN_T3	0	11	11	0	0.22	0.22	0	0	0	0	0	0	0	0
9/27/2024 22:17	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.09	0	0	0	0	0	0
9/27/2024 22:17	67605	WARW_T1	2	13	11	0.2	0.47	0.27	0	0	0	0	0	0	0	0
9/28/2024 8:26	22003	BOHE_T1	215	252	37	0.28	0.53	0.25	0	0	0	0	0	0	0	0
9/28/2024 8:26	22002	BOHE_T1	0	0	0	0	0	0	0.43	0.36	0	0	0	0	0	0
9/28/2024 9:12	21504	CEAV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 9:15	25402	LAHA_T2	0	0	0	0	0	0	-0.82	-0.82	0	0	0	0	0	0
9/28/2024 9:27	22001	BOHE_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
9/28/2024 9:27	22003	BOHE_T1	228	244	16	0.41	0.42	0.01	0	0	0	0	0	0	0	0
9/28/2024 9:30	20603	GRWO_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
9/28/2024 9:41	54502	ENOL_T2	0	0	0	0	0	0	-2.01	-1.88	1	1	0	600	600	0
9/28/2024 9:41	54506	ENOL_T2	1	1	0	0.9	2.2	1.3	0	0	0	0	0	0	0	0
9/28/2024 9:46	44502	HAMI_T2	1	1	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
9/28/2024 9:46	44503	HAMI_T2	0	0	0	0	0	0	0.18	0.26	0	0	0	0	0	0
9/28/2024 9:52	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 9:57	24204	PROV_T3	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
9/28/2024 9:57	24201	PROV_T3	1	1	0	6.5	6.5	0	-1.45	-1.42	1	1	0	1200	1200	0
9/28/2024 9:58	60102	COCA_T1	0	0	0	0	0	0	-0.9	-0.64	2	2	0	1200	1200	0
9/28/2024 10:00	59003	MIFF_T1	1	0	-1	0.2	0	-0.2	-0.69	-0.68	0	0	0	0	0	0
9/28/2024 10:00	52403	GRPA_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
9/28/2024 10:00	59002	MIFF_T1	1	4	3	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
9/28/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.49	0.53	0	0	0	0	0	0
9/28/2024 10:00	63804	HEMP_T1	1	1	0	6.1	5.4	-0.7	0.94	-0.63	0	0	0	0	0	0
9/28/2024 10:00	28102	TWLA_T2	10	9	-1	0.42	0.38	-0.04	0.2	0.2	0	0	0	0	0	0
9/28/2024 10:00	12703	MAJU_T2	0	0	0	0	0	0	-0.87	-0.91	0	0	0	0	0	0
9/28/2024 10:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 10:09	21504	CEAV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 10:09	67503	WEWI_T2	1	1	0	5.7	6.1	0.4	-0.09	-0.72	0	0	0	0	0	0
9/28/2024 10:09	22003	BOHE_T1	239	243	4	0.39	0.45	0.06	0	0	0	0	0	0	0	0
9/28/2024 10:09	22001	BOHE_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
9/28/2024 10:25	10801	CHHI_T1	1	0	-1	0.2	0	-0.2	-1.32	-1.32	2	2	0	1500	1500	0
9/28/2024 10:27	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/28/2024 10:33	65502	MOJO_T2	0	0	0	0	0	0	-0.67	-0.75	0	0	0	0	0	0
9/28/2024 10:35	65502	MOJO_T2	0	0	0	0	0	0	-0.67	-0.75	0	0	0	0	0	0
9/28/2024 10:38	45901	AUBU_T1	0	0	0	0	0	0	0.93	0.95	0	0	0	0	0	0
9/28/2024 10:38	45902	AUBU_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
9/28/2024 10:40	21204	ECAR_T2	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
9/28/2024 10:40	21206	ECAR_T2	1	1	0	7.1	6.9	-0.2	0.3	0.37	0	0	0	0	0	0
9/28/2024 10:41	64602	LEOL_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
9/28/2024 10:41	10805	CHHI_T2	1	1	0	7.9	7.5	-0.4	-1.33	-0.38	0	0	0	0	0	0
9/28/2024 10:42	21204	ECAR_T2	1	1	0	0	0.2	0.2	-0.7	-0.7	0	0	0	0	0	0
9/28/2024 10:42	21206	ECAR_T2	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
9/28/2024 11:02	63501	HEID_TBK1-2	8	24	16	0.24	0.21	-0.03	-0.38	-0.33	1	1	0	900	900	0
9/28/2024 11:02	52001	LING_T1	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
9/28/2024 11:08	22001	BOHE_T1	0	19	19	0	0.14	0.14	0	0	0	0	0	0	0	0
9/28/2024 11:08	22003	BOHE_T1	234	262	28	0.38	0.57	0.19	0	0	0	0	0	0	0	0
9/28/2024 11:08	22002	BOHE_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
9/28/2024 11:09	15702	TANN_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
9/28/2024 11:09	15703	TANN_T2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
9/28/2024 11:14	45802	HEGI_T2	15	24	9	0.71	0.37	-0.34	0.65	0.57	0	0	0	0	0	0
9/28/2024 11:17	45802	HEGI_T2	19	21	2	0.37	0	-0.37	0.65	0.57	0	0	0	0	0	0
9/28/2024 11:21	65503	MOJO_T2	0	0	0	0	0	0	-1.1	-1	1	1	0	900	900	0
9/28/2024 11:30	14502	SOHO_T1	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
9/28/2024 11:33	55405	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 11:40	60101	COCA_T1	0	1	1	0	0.2	0.2	0.44	0.48	0	0	0	0	0	0
9/28/2024 11:41	60101	COCA_T1	0	1	1	0	0.2	0.2	0.88	0.95	0	0	0	0	0	0
9/28/2024 11:42	60101	COCA_T1	0	1	1	0	0.2	0.2	0.44	0.48	0	0	0	0	0	0
9/28/2024 11:43	60101	COCA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/28/2024 11:43	60102	COCA_T1	0	0	0	0	0	0	-1.33	-1.32	2	2	0	1200	1200	0
9/28/2024 11:44	60101	COCA_T1	0	1	1	0	0.2	0.2	0.44	0.48	0	0	0	0	0	0
9/28/2024 11:45	60102	COCA_T1	0	0	0	0	0	0	-1.33	-1.32	2	2	0	1200	1200	0
9/28/2024 11:45	60101	COCA_T1	1	1	0	0.2	0.2	0	0.44	0.48	0	0	0	0	0	0
9/28/2024 11:55	13905	SEID_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
9/28/2024 11:55	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 11:57	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 11:58	20603	GRWO_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
9/28/2024 12:02	20603	GRWO_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
9/28/2024 12:03	61801	EELI_T2	0	0	0	0	0	0	-0.84	-0.84	1	1	0	600	600	0
9/28/2024 12:13	63305	GREE_T1	0	0	0	0	0	0	-2.24	-2.21	1	1	0	900	900	0
9/28/2024 12:13	21606	EYNO_T1	0	0	0	0	0	0	-1.01	-1.03	1	1	0	1200	1200	0
9/28/2024 12:16	63305	GREE_T1	0	0	0	0	0	0	-2.24	-2.21	1	1	0	900	900	0
9/28/2024 12:23	44301	BEAV_T2	0	0	0	0	0	0	-0.92	-0.93	1	1	0	600	600	0
9/28/2024 12:25	45501	DERR_T2	0	0	0	0	0	0	-0.66	-0.66	2	2	0	1800	1800	0
9/28/2024 12:25	24902	WHHA_T1	10	8	-2	0.81	0.78	-0.03	0.75	0.73	0	0	0	0	0	0
9/28/2024 12:26	24902	WHHA_T1	10	8	-2	0.81	0.78	-0.03	0.75	0.73	0	0	0	0	0	0
9/28/2024 12:26	44301	BEAV_T2	0	0	0	0	0	0	-0.92	-0.93	1	1	0	600	600	0
9/28/2024 12:26	45501	DERR_T2	0	0	0	0	0	0	-0.66	-0.66	2	2	0	1800	1800	0
9/28/2024 12:37	58401	MORO_T1	0	0	0	0	0	0	-2.3	-2.32	2	2	0	1200	1200	0
9/28/2024 12:45	13503	MCMI_T2	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
9/28/2024 13:05	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
9/28/2024 13:08	42201	SHEN_T2	0	0	0	0	0	0	0.8	0.82	0	0	0	0	0	0
9/28/2024 13:08	41902	REED_T1	0	0	0	0	0	0	0.87	0.86	0	0	0	0	0	0
9/28/2024 13:18	64203	KINZ_T1	0	0	0	0	0	0	-0.16	-0.1	1	1	0	600	600	0
9/28/2024 13:18	64204	KINZ_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
9/28/2024 13:18	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/28/2024 13:28	21601	EYNO_T1	0	0	0	0	0	0	0.38	0.5	0	0	0	0	0	0
9/28/2024 13:32	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 13:33	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 13:34	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 13:37	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 13:40	22003	BOHE_T1	295	309	14	0.65	0.69	0.04	-0.2	-0.2	0	0	0	0	0	0
9/28/2024 13:40	22002	BOHE_T1	4	3	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
9/28/2024 13:40	22001	BOHE_T1	60	83	23	0.13	0.14	0.01	0	0	0	0	0	0	0	0
9/28/2024 13:42	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 13:53	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 14:00	45802	HEGI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/28/2024 14:02	40101	HUNT_T2	1	2	1	0.1	0.2	0.1	-0.59	-0.62	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/28/2024 14:06	66504	SMAN_T2	0	0	0	0	0	0	-1.62	-1.47	1	1	0	1200	1200	0
9/28/2024 14:07	66504	SMAN_T2	0	0	0	0	0	0	-1.47	-1.37	1	1	0	1200	1200	0
9/28/2024 14:09	66504	SMAN_T2	0	0	0	0	0	0	-1.47	-1.37	1	1	0	1200	1200	0
9/28/2024 14:11	45902	AUBU_T1	1	1	0	0.1	0.3	0.2	-0.39	-0.42	0	0	0	0	0	0
9/28/2024 14:12	67604	WARW_T1	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
9/28/2024 14:13	60801	BUCK_T1	0	0	0	0	0	0	-0.8	-0.79	1	1	0	600	600	0
9/28/2024 14:18	46102	MACI_T1	0	0	0	0	0	0	0.8	0.78	0	0	0	0	0	0
9/28/2024 14:29	44801	EDAN_T2	0	2	2	0	0	0	-1.67	-1.66	0	0	0	0	0	0
9/28/2024 14:47	47802	MOCA_T2	0	0	0	0	0	0	-0.78	-0.87	0	0	0	0	0	0
9/28/2024 14:51	63801	HEMP_T1	0	0	0	0	0	0	-1.04	-1.05	1	1	0	900	900	0
9/28/2024 14:51	63804	HEMP_T1	2	2	0	4.05	5.3	1.25	0	0	0	0	0	0	0	0
9/28/2024 15:02	46101	MACI_T2	0	0	0	0	0	0	-0.63	-0.62	1	1	0	1200	1200	0
9/28/2024 15:02	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/28/2024 15:32	20201	JERM_T1	0	0	0	0	0	0	0.81	0.78	1	1	0	1200	1200	0
9/28/2024 15:58	10801	CHHI_T1	1	0	-1	0.1	0	-0.1	-1.93	-1.95	3	3	0	2100	2100	0
9/28/2024 16:13	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 16:16	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
9/28/2024 16:16	64203	KINZ_T1	0	0	0	0	0	0	0	-0.11	1	1	0	600	600	0
9/28/2024 16:16	64204	KINZ_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
9/28/2024 16:16	64201	KINZ_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
9/28/2024 16:21	65205	PRIN_T1	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
9/28/2024 16:26	13503	MCMI_T2	2	0	-2	0.1	0	-0.1	-0.91	-0.89	0	0	0	0	0	0
9/28/2024 17:03	46101	MACI_T2	0	0	0	0	0	0	-0.63	-0.63	1	1	0	1200	1200	0
9/28/2024 17:48	64204	KINZ_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
9/28/2024 17:48	64201	KINZ_T1	0	1	1	0	1.1	1.1	-0.7	-0.88	3	3	0	1500	1500	0
9/28/2024 17:48	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/28/2024 17:51	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
9/28/2024 17:51	64204	KINZ_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
9/28/2024 17:51	64201	KINZ_T1	0	1	1	0	1.1	1.1	-0.7	-0.88	3	3	0	1500	1500	0
9/28/2024 20:08	10805	CHHI_T2	1	1	0	7.9	8.3	0.4	-1	-1.03	0	0	0	0	0	0
9/28/2024 20:11	13503	MCMI_T2	0	6	6	0	0.17	0.17	-0.91	-0.92	0	0	0	0	0	0
9/28/2024 20:12	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 20:14	13905	SEID_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
9/28/2024 20:16	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 20:17	13503	MCMI_T2	6	5	-1	0.17	0.18	0.01	-0.91	-0.92	0	0	0	0	0	0
9/28/2024 20:19	24902	WHHA_T1	2	2	0	0.45	0.35	-0.1	0.74	0.77	0	0	0	0	0	0
9/28/2024 20:19	42201	SHEN_T2	1	3	2	0	0.1	0.1	0.37	0.35	0	0	0	0	0	0
9/28/2024 20:20	22002	BOHE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/28/2024 20:20	22003	BOHE_T1	262	279	17	0.55	0.74	0.19	0	0	0	0	0	0	0	0
9/28/2024 20:20	45902	AUBU_T1	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
9/28/2024 20:20	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/28/2024 20:20	22001	BOHE_T1	19	39	20	0.14	0.13	-0.01	0.27	0.25	0	0	0	0	0	0
9/28/2024 20:22	45901	AUBU_T1	0	0	0	0	0	0	0.97	0.97	0	0	0	0	0	0
9/28/2024 20:24	22003	BOHE_T1	262	279	17	0.55	0.74	0.19	-0.2	-0.2	0	0	0	0	0	0
9/28/2024 20:24	22001	BOHE_T1	19	39	20	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
9/28/2024 20:24	44301	BEAV_T2	0	0	0	0	0	0	-1.13	-1.11	1	1	0	600	600	0
9/28/2024 20:24	22002	BOHE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/28/2024 20:25	22001	BOHE_T1	19	39	20	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
9/28/2024 20:25	22002	BOHE_T1	0	2	2	0	0.1	0.1	0.16	0.09	0	0	0	0	0	0
9/28/2024 20:25	22003	BOHE_T1	262	279	17	0.55	0.74	0.19	0	0	0	0	0	0	0	0
9/28/2024 20:27	20601	GRWO_T2	8	10	2	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
9/28/2024 20:27	20603	GRWO_T2	5	8	3	0.1	0.14	0.04	0.36	0.35	0	0	0	0	0	0
9/28/2024 20:28	47802	MOCA_T2	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
9/28/2024 20:28	41902	REED_T1	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
9/28/2024 20:29	42201	SHEN_T2	1	3	2	0	0.1	0.1	0.35	0.37	0	0	0	0	0	0
9/28/2024 20:29	15703	TANN_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
9/28/2024 20:29	21504	CEAV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 20:29	45902	AUBU_T1	0	0	0	0	0	0	-0.49	-0.47	0	0	0	0	0	0
9/28/2024 20:29	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
9/28/2024 20:31	42201	SHEN_T2	3	1	-2	0.1	0	-0.1	0.35	0.37	0	0	0	0	0	0
9/28/2024 20:31	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 20:33	45501	DERR_T2	0	0	0	0	0	0	-0.83	-0.84	2	2	0	1800	1800	0
9/28/2024 20:34	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 20:34	45501	DERR_T2	0	0	0	0	0	0	-0.83	-0.84	2	2	0	1800	1800	0
9/28/2024 20:35	10801	CHHI_T1	32	0	-32	0.11	0	-0.11	-1.99	-1.99	3	3	0	2100	2100	0
9/28/2024 20:35	24902	WHHA_T1	2	3	1	0.45	0.3	-0.15	0.77	0.74	0	0	0	0	0	0
9/28/2024 20:36	20201	JERM_T1	0	0	0	0	0	0	0.33	0.35	1	1	0	1200	1200	0
9/28/2024 20:36	21606	WNO_T1	0	0	0	0	0	0	-1.15	-1.16	1	1	0	1200	1200	0
9/28/2024 20:37	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 20:37	20601	GRWO_T2	5	24	19	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
9/28/2024 20:37	20603	GRWO_T2	7	8	1	0.14	0.13	-0.01	0.35	0.35	0	0	0	0	0	0
9/28/2024 20:38	46101	MACI_T2	0	0	0	0	0	0	-0.63	-0.57	1	1	0	1200	1200	0
9/28/2024 20:40	40101	HUNT_T2	0	0	0	0	0	0	-1.27	-1.28	0	0	0	0	0	0
9/28/2024 20:41	64204	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
9/28/2024 20:41	64202	KINZ_T1	3	3	0	0.57	0.43	-0.14	0	0	0	0	0	0	0	0
9/28/2024 20:41	64201	KINZ_T1	4	5	1	0.38	0.16	-0.22	-0.52	-0.48	2	2	0	1200	1200	0
9/28/2024 20:42	65502	MOJO_T2	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
9/28/2024 20:42	44801	EDAN_T2	0	1	1	0	0.2	0.2	-1.68	-1.69	0	0	0	0	0	0
9/28/2024 20:42	44301	BEAV_T2	0	0	0	0	0	0	-1.11	-1.15	1	1	0	600	600	0
9/28/2024 20:43	46101	MACI_T2	0	0	0	0	0	0	-0.63	-0.57	1	1	0	1200	1200	0
9/28/2024 20:44	14502	SCHO_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
9/28/2024 20:44	21206	ECAR_T2	1	1	0	6.4	6.6	0.2	1.5	1.51	0	0	0	0	0	0
9/28/2024 20:44	45802	HEGI_T2	44	47	3	0.63	0.85	0.22	0.59	0.61	0	0	0	0	0	0
9/28/2024 20:44	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 20:44	46102	MACI_T1	0	0	0	0	0	0	0.77	0.76	0	0	0	0	0	0
9/28/2024 20:44	21601	EYNO_T1	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
9/28/2024 20:45	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 20:45	55405	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 20:45	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/28/2024 20:45	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 20:45	58401	MORO_T1	0	0	0	0	0	0	-1.06	-1.08	1	1	0	600	600	0
9/28/2024 20:46	66504	SMAN_T2	0	0	0	0	0	0	-3.24	-3.32	2	2	0	2400	2400	0
9/28/2024 20:46	21206	ECAR_T2	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
9/28/2024 20:46	45802	HEGI_T2	45	47	2	0.55	0.96	0.41	0.59	0.61	0	0	0	0	0	0
9/28/2024 20:46	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/28/2024 20:46	21204	ECAR_T2	1	2	1	0	0	0	-0.68	-0.71	0	0	0	0	0	0
9/28/2024 20:47	60101	COCA_T1	0	0	0	0	0	0	1.38	1.11	0	0	0	0	0	0
9/28/2024 20:47	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 20:47	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 20:47	58401	MORO_T1	0	0	0	0	0	0	-1.06	-1.08	1	1	0	600	600	0
9/28/2024 20:48	63305	GREE_T1	15	14	-1	0.21	0.22	0.01	-2.38	-2.36	1	1	0	900	900	0
9/28/2024 20:48	66504	SMAN_T2	0	0	0	0	0	0	-1.62	-1.66	1	1	0	1200	1200	0
9/28/2024 20:48	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
9/28/2024 20:48	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 20:49	60102	COCA_T1	0	0	0	0	0	0	-0.61	-0.59	1	1	0	600	600	0
9/28/2024 20:49	65202	PRIN_T1	1	2	1	4.8	0.1	-4.7	0	0	0	0	0	0	0	0
9/28/2024 20:49	65205	PRIN_T1	17	31	14	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
9/28/2024 20:49	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 20:50	52001	LING_T1	0	0	0	0	0	0	-1.05	-1.07	0	0	0	0	0	0
9/28/2024 20:50	64204	KINZ_T1	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
9/28/2024 20:50	61801	EELI_T2	0	0	0	0	0	0	-0.87	-0.85	1	1	0	600	600	0
9/28/2024 20:50	65503	MOJO_T2	0	0	0	0	0	0	-1.22	-1.24	1	1	0	900	900	0
9/28/2024 20:50	64202	KINZ_T1	3	2	-1	0.37	0.55	0.18	0	0	0	0	0	0	0	0
9/28/2024 20:50	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 20:50	64201	KINZ_T1	2	5	3	0.25	0.26	0.01	-0.52	-0.48	2	2	0	1200	1200	0
9/28/2024 20:50	63501	HEID_TBK1-2	33	37	4	0.28	0.55	0.27	-0.37	-0.45	1	1	0	900	900	0
9/28/2024 20:50	60101	COCA_T1	0	0	0	0	0	0	0.92	0.74	0	0	0	0	0	0
9/28/2024 20:51	63305	GREE_T1	15	14	-1	0.21	0.22	0.01	-2.38	-2.36	1	1	0	900	900	0
9/28/2024 20:51	63801	HEMP_T1	0	0	0	0	0	0	-0.15	-0.21	0	0	0	0	0	0
9/28/2024 20:51	63804	HEMP_T1	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
9/28/2024 20:51	60101	COCA_T1	0	0	0	0	0	0	0.46	0.37	0	0	0	0	0	0
9/28/2024 20:51	60102	COCA_T1	0	0	0	0	0	0	-0.61	-0.59	1	1	0	600	600	0
9/28/2024 20:52	67605	WARW_T1	3	4	1	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
9/28/2024 20:52	64602	LEOL_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
9/28/2024 20:52	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28/2024 20:52	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/28/2024 20:54	65502	MOJO_T2	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
9/28/2024 20:57	60803	BUCK_T1	13	13	0	0.22	0.19	-0.03	0	0	0	0	0	0	0	0
9/28/2024 20:57	60801	BUCK_T1	21	15	-6	0.16	0.11	-0.05	-0.81	-0.19	1	0	-1	600	0	-600
9/28/2024 21:00	64203	KINZ_T1	0	14	14	0	0.11	0.11	-0.32	-0.36	1	1	0	600	600	0
9/28/2024 21:00	64202	KINZ_T1	2	8	6	0.55	0.28	-0.27	0	0	0	0	0	0	0	0
9/28/2024 21:00	64201	KINZ_T1	4	37	33	0.15	0.22	0.07	0	0	0	0	0	0	0	0
9/28/2024 21:00	64204	KINZ_T1	1	11	10	1.1	0.21	-0.89	0	0	0	0	0	0	0	0
9/29/2024 8:59	25402	LAHA_T2	0	1	1	0	0	0	-0.87	-0.85	0	0	0	0	0	0
9/29/2024 9:19	13303	ORVI_T1	0	0	0	0	0	0	0.57	0.66	0	0	0	0	0	0
9/29/2024 9:20	13302	ORVI_T2	0	0	0	0	0	0	1.3	1.28	0	0	0	0	0	0
9/29/2024 9:21	13303	ORVI_T1	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
9/29/2024 9:29	24102	EHAZ_T1	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
9/29/2024 9:29	24105	EHAZ_T1	4	4	0	6.78	6.73	-0.05	0	0	0	0	0	0	0	0
9/29/2024 9:29	24101	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/29/2024 9:39	24902	WHHA_T1	4	6	2	0.58	0.53	-0.05	1.46	1.46	0	0	0	0	0	0
9/29/2024 10:00	52403	GRPA_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
9/29/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	1.28	1.26	0	0	0	0	0	0
9/29/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	-0.74	-0.7	0	0	0	0	0	0
9/29/2024 10:00	28102	TWLA_T2	9	5	-4	0.34	0.6	0.26	0.22	0.22	0	0	0	0	0	0
9/29/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.99	-1	0	0	0	0	0	0
9/29/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
9/29/2024 10:00	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/29/2024 10:07	67503	WEWI_T2	1	1	0	7.6	8	0.4	-0.23	-0.23	0	0	0	0	0	0
9/29/2024 10:07	13302	ORVI_T2	0	0	0	0	0	0	1.35	1.38	0	0	0	0	0	0
9/29/2024 10:11	24902	WHHA_T1	4	4	0	0.55	0.53	-0.02	1.46	1.48	0	0	0	0	0	0
9/29/2024 10:16	25402	LAHA_T2	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
9/29/2024 10:40	10801	CHHI_T1	67	2	-65	0.18	0.15	-0.03	-1.95	-1.94	3	3	0	2100	2100	0
9/29/2024 10:58	63305	GREE_T1	0	0	0	0	0	0	-1.3	-1.3	0	0	0	0	0	0
9/29/2024 11:00	64203	KINZ_T1	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
9/29/2024 11:00	64204	KINZ_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
9/29/2024 11:00	64201	KINZ_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
9/29/2024 11:49	65603	QVIL_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
9/29/2024 11:56	44301	BEAV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/29/2024 11:56	44302	BEAV_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
9/29/2024 11:58	61801	EELI_T2	0	0	0	0	0	0	-0.94	-0.9	1	1	0	600	600	0
9/29/2024 11:59	63305	GREE_T1	0	0	0	0	0	0	-1.26	-1.3	0	0	0	0	0	0
9/29/2024 12:13	50105	HARR_T3	6	7	1	6.5	6.48	-0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/29/2024 12:13	50107	HARR_T3	1	1	0	6.8	7.4	0.6	0	0	0	0	0	0	0	0
9/29/2024 12:13	50201	HARR_T3	1	1	0	9.4	9.9	0.5	0	0	0	0	0	0	0	0
9/29/2024 12:16	20603	GRWO_T2	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
9/29/2024 12:16	28805	LAKE_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
9/29/2024 12:18	65502	MOJO_T2	0	0	0	0	0	0	-0.76	-0.82	0	0	0	0	0	0
9/29/2024 12:19	64305	LINC_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
9/29/2024 12:21	65502	MOJO_T2	0	0	0	0	0	0	-0.76	-0.82	0	0	0	0	0	0
9/29/2024 12:24	67502	WEWI_T2	0	0	0	0	0	0	-1.42	-1.43	1	0	-1	900	0	-900
9/29/2024 12:24	67503	WEWI_T2	1	1	0	7.5	7.7	0.2	0	0	0	0	0	0	0	0
9/29/2024 12:24	64305	LINC_T1	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
9/29/2024 12:26	10805	CHHI_T2	1	1	0	8.2	7.5	-0.7	-1.3	-1.16	0	0	0	0	0	0
9/29/2024 12:28	48901	FOSP_T2	0	0	0	0	0	0	-0.43	-0.43	1	1	0	600	600	0
9/29/2024 12:32	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/29/2024 12:48	20201	JERM_T1	0	0	0	0	0	0	0.34	0.37	1	1	0	1200	1200	0
9/29/2024 12:51	65503	MOJO_T2	0	1	1	0	0	0	-1.15	-1.08	1	1	0	900	900	0
9/29/2024 13:03	63501	HEID_TBK1-2	1	1	0	0.7	0.9	0.2	0.4	0.46	0	0	0	0	0	0
9/29/2024 13:07	13905	SEID_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
9/29/2024 13:11	45902	AUBU_T1	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
9/29/2024 13:32	63501	HEID_TBK1-2	1	1	0	0.9	0.9	0	0.44	0.43	0	0	0	0	0	0
9/29/2024 13:33	63501	HEID_TBK1-2	1	1	0	0.9	0.9	0	0.44	0.43	0	0	0	0	0	0
9/29/2024 13:35	42201	SHEN_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
9/29/2024 13:38	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
9/29/2024 13:38	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/29/2024 13:48	58401	MORO_T1	0	0	0	0	0	0	-1.13	-1.14	1	1	0	600	600	0
9/29/2024 13:49	58401	MORO_T1	0	0	0	0	0	0	-1.13	-1.14	1	1	0	600	600	0
9/29/2024 13:58	67605	WARW_T1	4	2	-2	0.23	0.35	0.12	-1.17	-1.16	0	0	0	0	0	0
9/29/2024 13:59	52004	LING_T2	2	2	0	3.95	3.9	-0.05	0	0	0	0	0	0	0	0
9/29/2024 13:59	52002	LING_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
9/29/2024 14:00	22003	BOHE_T1	382	380	-2	0.8	0.76	-0.04	0	0	0	0	0	0	0	0
9/29/2024 14:00	22001	BOHE_T1	160	172	12	0.25	0.25	0	0	0	0	0	0	0	0	0
9/29/2024 14:00	22002	BOHE_T1	12	13	1	0.25	0.23	-0.02	0.34	0.34	0	0	0	0	0	0
9/29/2024 14:01	44801	EDAN_T2	1	1	0	0.3	0	-0.3	-1.69	-1.66	0	0	0	0	0	0
9/29/2024 14:02	52004	LING_T2	2	2	0	3.9	3.95	0.05	0.09	0.09	0	0	0	0	0	0
9/29/2024 14:03	52002	LING_T2	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
9/29/2024 14:03	52004	LING_T2	2	2	0	3.9	3.95	0.05	0	0	0	0	0	0	0	0
9/29/2024 14:07	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/29/2024 14:08	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/29/2024 14:09	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/29/2024 14:19	42204	SHEN_T2	0	0	0	0	0	0	-0.68	-0.67	1	1	0	1200	1200	0
9/29/2024 14:56	44301	BEAV_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
9/29/2024 15:12	28102	TWLA_T2	7	5	-2	0.24	0.38	0.14	0.23	0.24	0	0	0	0	0	0
9/29/2024 15:39	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
9/29/2024 15:39	21504	CEAV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/29/2024 15:40	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
9/29/2024 17:06	13503	MCMI_T2	0	0	0	0	0	0	-0.89	-0.87	0	0	0	0	0	0
9/29/2024 18:20	13503	MCMI_T2	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
9/29/2024 19:25	65503	MOJO_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
9/29/2024 19:37	65502	MOJO_T2	0	0	0	0	0	0	-1.07	-1.06	0	0	0	0	0	0
9/29/2024 20:06	28102	TWLA_T2	2	3	1	0.2	0.23	0.03	0.22	0.22	0	0	0	0	0	0
9/29/2024 20:14	42201	SHEN_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
9/29/2024 20:15	52004	LING_T2	2	2	0	4.2	4.25	0.05	-0.15	-0.12	0	0	0	0	0	0
9/29/2024 20:17	63501	HEID_TBK1-2	36	25	-11	0.5	0.17	-0.33	-0.52	-0.45	1	1	0	900	900	0
9/29/2024 20:17	45902	AUBU_T1	1	0	-1	0	0	0	-0.61	-0.57	0	0	0	0	0	0
9/29/2024 20:19	63305	GREE_T1	3	7	4	0.1	0.13	0.03	-2.31	-2.35	1	1	0	900	900	0
9/29/2024 20:21	13503	MCMI_T2	0	1	1	0	0.1	0.1	-0.9	-0.91	0	0	0	0	0	0
9/29/2024 20:22	42204	SHEN_T2	0	0	0	0	0	0	-0.68	-0.66	1	1	0	1200	1200	0
9/29/2024 20:22	42201	SHEN_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
9/29/2024 20:23	67503	WEWI_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
9/29/2024 20:23	67502	WEWI_T2	0	0	0	0	0	0	-1.41	-1.44	1	1	0	900	900	0
9/29/2024 20:26	52004	LING_T2	2	2	0	4.2	4.25	0.05	0	0	0	0	0	0	0	0
9/29/2024 20:26	52002	LING_T2	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
9/29/2024 20:27	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/29/2024 20:28	63305	GREE_T1	3	7	4	0.1	0.13	0.03	-2.35	-2.34	1	1	0	900	900	0
9/29/2024 20:28	64305	LINC_T1	0	0	0	0	0	0	-0.59	-0.58	0	0	0	0	0	0
9/29/2024 20:29	65603	QVIL_T2	0	0	0	0	0	0	-0.88	-0.91	0	0	0	0	0	0
9/29/2024 20:30	64101	REFR_T1	4	1	-3	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
9/29/2024 20:30	65502	MOJO_T2	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
9/29/2024 20:33	13303	ORVI_T1	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
9/29/2024 20:34	10805	CHHI_T2	1	1	0	7.8	8.4	0.6	-1.25	-0.96	0	0	0	0	0	0
9/29/2024 20:34	22001	BOHE_T1	3	97	94	0.1	0.14	0.04	0	0	0	0	0	0	0	0
9/29/2024 20:34	22002	BOHE_T1	0	6	6	0	0.18	0.18	0.28	0.28	0	0	0	0	0	0
9/29/2024 20:34	22003	BOHE_T1	267	300	33	0.61	0.79	0.18	0	0	0	0	0	0	0	0
9/29/2024 20:35	61801	EELI_T2	0	0	0	0	0	0	-0.91	-0.94	1	1	0	600	600	0
9/29/2024 20:36	13303	ORVI_T1	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
9/29/2024 20:37	64101	REFR_T1	4	1	-3	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
9/29/2024 20:37	13302	ORVI_T2	0	0	0	0	0	0	1.26	1.28	0	0	0	0	0	0
9/29/2024 20:37	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.15	1	1	0	600	600	0
9/29/2024 20:38	67605	WARW_T1	1	1	0	0.5	0.7	0.2	-1.2	-1.2	0	0	0	0	0	0
9/29/2024 20:39	13905	SEID_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
9/29/2024 20:39	67604	WARW_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
9/29/2024 20:39	67605	WARW_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/29/2024 20:40	44801	EDAN_T2	1	1	0	0.2	0	-0.2	-1.71	-1.69	0	0	0	0	0	0
9/29/2024 20:40	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/29/2024 20:41	64101	REFR_T1	4	1	-3	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
9/29/2024 20:42	50105	HARR_T3	7	6	-1	5.86	6.05	0.19	0	0	0	0	0	0	0	0
9/29/2024 20:42	50107	HARR_T3	1	1	0	6.9	6.4	-0.5	0	0	0	0	0	0	0	0
9/29/2024 20:42	50201	HARR_T3	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
9/29/2024 20:42	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.15	1	1	0	600	600	0
9/29/2024 20:43	64202	KINZ_T1	2	3	1	0.2	0.53	0.33	0	0	0	0	0	0	0	0
9/29/2024 20:43	64203	KINZ_T1	0	0	0	0	0	0	0.22	0.18	0	0	0	0	0	0
9/29/2024 20:43	64305	LINC_T1	0	0	0	0	0	0	-0.58	-0.62	0	0	0	0	0	0
9/29/2024 20:43	64204	KINZ_T1	1	1	0	0.9	1.5	0.6	0	0	0	0	0	0	0	0
9/29/2024 20:43	10801	CHHI_T1	0	0	0	0	0	0	-1.96	-1.97	3	3	0	2100	2100	0
9/29/2024 20:43	64201	KINZ_T1	1	1	0	0.2	1.1	0.9	0	0	0	0	0	0	0	0
9/29/2024 20:43	20603	GRWO_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
9/29/2024 20:44	20201	JERM_T1	0	0	0	0	0	0	0.33	0.36	1	1	0	1200	1200	0
9/29/2024 20:45	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
9/29/2024 20:45	44301	BEAV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/29/2024 20:45	21504	CEAV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/29/2024 20:49	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
9/29/2024 20:49	44301	BEAV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/29/2024 20:51	48901	FOSP_T2	0	0	0	0	0	0	-0.43	-0.47	1	1	0	600	600	0
9/29/2024 20:52	44302	BEAV_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
9/29/2024 20:52	44301	BEAV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/29/2024 21:00	24902	WHHA_T1	2	2	0	0.6	0.2	-0.4	0.74	0.72	0	0	0	0	0	0
9/29/2024 21:01	25402	LAHA_T2	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
9/29/2024 21:05	24902	WHHA_T1	2	2	0	0.6	0.2	-0.4	0.74	0.72	0	0	0	0	0	0
9/29/2024 22:30	52402	GRPA_T2	6	1	-5	0.35	0.5	0.15	0	0	0	0	0	0	0	0
9/29/2024 22:30	52403	GRPA_T2	4	0	-4	0.55	0	-0.55	-0.78	-0.18	0	0	0	0	0	0
9/29/2024 22:30	52404	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/30/2024 8:28	24104	EHAZ_T1	0	0	0	0	0	0	-0.81	-0.82	1	1	0	1200	1200	0
9/30/2024 8:28	24105	EHAZ_T1	4	4	0	5.9	6.15	0.25	0	0	0	0	0	0	0	0
9/30/2024 8:34	17002	RIRO_T2	0	0	0	0	0	0	0.62	0.57	0	0	0	0	0	0
9/30/2024 8:36	64701	LITI_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
9/30/2024 8:38	10206	ALLE_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/30/2024 8:38	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 8:38	10102	ALLE_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
9/30/2024 8:40	24801	VALM_T1	0	0	0	0	0	0	-0.35	-0.29	0	0	0	0	0	0
9/30/2024 8:40	67503	WEWI_T2	1	1	0	8.8	8.9	0.1	-0.22	-0.2	0	0	0	0	0	0
9/30/2024 8:40	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 8:40	46001	BERW_T1	0	0	0	0	0	0	0.48	0.6	0	0	0	0	0	0
9/30/2024 8:48	15203	SFAR_T2	0	0	0	0	0	0	-1.27	-1.24	0	0	0	0	0	0
9/30/2024 8:50	14801	TREI_T2	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
9/30/2024 8:50	66505	SMAN_T2	0	0	0	0	0	0	0.74	0.67	1	1	0	900	900	0
9/30/2024 8:50	15203	SFAR_T2	0	0	0	0	0	0	-1.27	-1.24	0	0	0	0	0	0
9/30/2024 8:51	15203	SFAR_T2	0	0	0	0	0	0	-1.24	-1.27	0	0	0	0	0	0
9/30/2024 8:52	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 8:52	66505	SMAN_T2	0	0	0	0	0	0	0.67	0.73	1	1	0	900	900	0
9/30/2024 8:52	10102	ALLE_T2	1	1	0	6.1	6.4	0.3	0	0	0	0	0	0	0	0
9/30/2024 8:52	15203	SFAR_T2	0	0	0	0	0	0	-1.24	-1.27	0	0	0	0	0	0
9/30/2024 8:52	15203	SFAR_T2	0	0	0	0	0	0	-1.24	-1.27	0	0	0	0	0	0
9/30/2024 8:52	15203	SFAR_T2	0	0	0	0	0	0	-1.24	-1.27	0	0	0	0	0	0
9/30/2024 8:52	15203	SFAR_T2	0	0	0	0	0	0	-1.24	-1.27	0	0	0	0	0	0
9/30/2024 8:52	10206	ALLE_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
9/30/2024 8:53	15203	SFAR_T2	0	0	0	0	0	0	-1.24	-1.27	0	0	0	0	0	0
9/30/2024 8:54	10102	ALLE_T2	1	1	0	6.1	6.4	0.3	0	0	0	0	0	0	0	0
9/30/2024 8:54	10206	ALLE_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
9/30/2024 8:54	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 8:54	15203	SFAR_T2	0	0	0	0	0	0	-1.24	-1.27	0	0	0	0	0	0
9/30/2024 8:56	15204	SFAR_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
9/30/2024 9:02	47103	MARL_T2	0	0	0	0	0	0	-0.58	-0.57	0	0	0	0	0	0
9/30/2024 9:09	45502	DERR_T2	1	1	0	0.2	0.5	0.3	0.43	0.24	0	1	1	0	300	300
9/30/2024 9:10	42701	AUGU_T1	0	1	1	0	0.2	0.2	0	0	2	2	0	1800	1800	0
9/30/2024 9:12	42701	AUGU_T1	0	1	1	0	0.2	0.2	0	0	2	2	0	1800	1800	0
9/30/2024 9:14	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/30/2024 9:14	28703	HAML_T2	3	3	0	0.37	0.47	0.1	0	0	0	0	0	0	0	0
9/30/2024 9:14	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 9:14	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
9/30/2024 9:14	15703	TANN_T2	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
9/30/2024 9:15	45502	DERR_T2	1	1	0	0.6	0	-0.6	0.43	0.24	0	1	1	0	300	300
9/30/2024 9:20	14801	TREI_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
9/30/2024 9:31	13501	MCMI_T1	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
9/30/2024 9:33	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 9:33	10206	ALLE_T2	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
9/30/2024 9:33	10102	ALLE_T2	1	2	1	6.3	6.3	0	0	0	0	0	0	0	0	0
9/30/2024 9:35	17001	RIRO_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
9/30/2024 9:36	65603	QVIL_T2	0	0	0	0	0	0	0.58	0.62	0	0	0	0	0	0
9/30/2024 9:36	65604	QVIL_T2	0	19	19	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 9:41	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 9:47	65503	MOJO_T2	0	0	0	0	0	0	-0.99	-0.94	1	1	0	900	900	0
9/30/2024 9:56	22001	BOHE_T1	28	14	-14	0.11	0.11	0	0.21	0.21	0	0	0	0	0	0
9/30/2024 9:56	22003	BOHE_T1	281	274	-7	0.68	0.69	0.01	0	0	0	0	0	0	0	0
9/30/2024 9:57	22003	BOHE_T1	281	274	-7	0.68	0.69	0.01	-0.21	-0.2	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/30/2024 9:57	22001	BOHE_T1	28	14	-14	0.11	0.11	0	0	0	0	0	0	0	0	0
9/30/2024 9:59	61801	EELI_T2	0	0	0	0	0	0	-0.58	-0.62	1	1	0	600	600	0
9/30/2024 10:00	65503	MOJO_T2	0	0	0	0	0	0	-0.94	-0.97	1	1	0	900	900	0
9/30/2024 10:00	67503	WEWI_T2	1	1	0	8.9	8.8	-0.1	-0.22	-0.23	0	0	0	0	0	0
9/30/2024 10:00	28102	TWLA_T2	9	12	3	0.31	0.27	-0.04	0.16	0.17	0	0	0	0	0	0
9/30/2024 10:00	13302	ORVI_T2	0	0	0	0	0	0	1.41	1.48	0	0	0	0	0	0
9/30/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.98	-1	0	0	0	0	0	0
9/30/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
9/30/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	-0.53	-0.37	0	0	0	0	0	0
9/30/2024 10:01	63501	HEID_TBK1-2	1	1	0	0.5	0.3	-0.2	0.2	0.23	1	1	0	900	900	0
9/30/2024 10:07	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 10:10	45902	AUBU_T1	0	0	0	0	0	0	-0.5	-0.53	1	1	0	600	600	0
9/30/2024 10:12	67502	WEWI_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
9/30/2024 10:12	67503	WEWI_T2	1	1	0	8.9	8.8	-0.1	0	0	0	0	0	0	0	0
9/30/2024 10:13	10206	ALLE_T2	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
9/30/2024 10:13	10102	ALLE_T2	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
9/30/2024 10:13	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 10:14	67505	WEWI_T1	0	0	0	0	0	0	-0.14	-0.1	1	1	0	900	900	0
9/30/2024 10:15	54505	ENOL_T2	1	1	0	0.8	0.8	0	-1.35	-1.34	1	1	0	600	600	0
9/30/2024 10:15	54502	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
9/30/2024 10:15	61801	EELI_T2	0	0	0	0	0	0	-0.62	-0.61	1	1	0	600	600	0
9/30/2024 10:16	25402	LAHA_T2	0	0	0	0	0	0	-0.79	-0.73	0	0	0	0	0	0
9/30/2024 10:18	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
9/30/2024 10:20	64701	LITI_T1	0	0	0	0	0	0	0.49	0.44	0	0	0	0	0	0
9/30/2024 10:24	42701	AUGU_T1	1	1	0	0.6	1.2	0.6	0	0	2	2	0	1800	1800	0
9/30/2024 10:25	42701	AUGU_T1	1	1	0	0.6	1.2	0.6	0	0	2	2	0	1800	1800	0
9/30/2024 10:26	42701	AUGU_T1	1	1	0	0.6	1.2	0.6	0	0	2	2	0	1800	1800	0
9/30/2024 10:26	24102	EHAZ_T1	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
9/30/2024 10:26	24105	EHAZ_T1	4	4	0	6.33	6.18	-0.15	0	0	0	0	0	0	0	0
9/30/2024 10:27	45501	DERR_T2	1	0	-1	0.1	0	-0.1	1.5	1.79	4	4	0	3600	3600	0
9/30/2024 10:27	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 10:28	55001	NEWP_T1	0	0	0	0	0	0	-0.12	-0.16	0	0	0	0	0	0
9/30/2024 10:28	55002	NEWP_T1	3	4	1	0.47	0.58	0.11	0	0	0	0	0	0	0	0
9/30/2024 10:29	67502	WEWI_T2	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
9/30/2024 10:29	55001	NEWP_T1	0	0	0	0	0	0	-0.12	-0.16	0	0	0	0	0	0
9/30/2024 10:29	55002	NEWP_T1	3	4	1	0.47	0.58	0.11	0	0	0	0	0	0	0	0
9/30/2024 10:29	67503	WEWI_T2	1	1	0	8.8	8.8	0	0	0	0	0	0	0	0	0
9/30/2024 10:32	28701	HAMI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/30/2024 10:32	28703	HAMI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/30/2024 10:32	28704	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/30/2024 10:34	51904	COPA_T1	5	5	0	0.7	0.96	0.26	0	0	0	0	0	0	0	0
9/30/2024 10:34	17002	RIRO_T2	5	10	5	0.22	0.17	-0.05	0.79	0.68	0	0	0	0	0	0
9/30/2024 10:34	51902	COPA_T1	0	0	0	0	0	0	-0.59	-0.55	1	1	0	1200	1200	0
9/30/2024 10:43	45802	HEGI_T2	1	107	106	0.1	0.47	0.37	0.96	0.94	1	1	0	900	900	0
9/30/2024 10:43	54502	ENOL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
9/30/2024 10:43	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	-1.36	-1.33	1	1	0	600	600	0
9/30/2024 10:45	65603	QVIL_T2	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
9/30/2024 10:45	45802	HEGI_T2	28	108	80	0.47	0.44	-0.03	0.96	0.94	1	1	0	900	900	0
9/30/2024 10:46	64903	MILL_T2	0	0	0	0	0	0	0.21	0.29	0	0	0	0	0	0
9/30/2024 10:48	15702	TANN_T2	1	0	-1	0.4	0	-0.4	-0.78	-0.71	0	0	0	0	0	0
9/30/2024 10:48	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
9/30/2024 10:49	64902	MILL_T2	0	0	0	0	0	0	-0.54	-0.56	1	1	0	900	900	0
9/30/2024 10:50	64902	MILL_T2	0	0	0	0	0	0	-0.54	-0.56	1	1	0	900	900	0
9/30/2024 10:51	64903	MILL_T2	0	0	0	0	0	0	0.21	0.29	0	0	0	0	0	0
9/30/2024 10:52	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
9/30/2024 10:52	15702	TANN_T2	1	0	-1	0.4	0	-0.4	-0.35	-0.33	0	0	0	0	0	0
9/30/2024 10:54	10801	OHIL_T1	0	0	0	0	0	0	-1.08	-1.11	2	2	0	1500	1500	0
9/30/2024 10:56	44801	EDAN_T2	160	156	-4	0.57	0.51	-0.06	-1.61	-1.58	0	0	0	0	0	0
9/30/2024 10:59	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
9/30/2024 10:59	54504	ENOL_T2	0	0	0	0	0	0	-1.18	-1.18	1	1	0	600	600	0
9/30/2024 10:59	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/30/2024 11:06	65503	MOJO_T2	0	0	0	0	0	0	-0.95	-0.83	1	1	0	900	900	0
9/30/2024 11:06	64904	MILL_T1	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
9/30/2024 11:06	64902	MILL_T2	0	0	0	0	0	0	-0.56	-0.54	1	1	0	900	900	0
9/30/2024 11:07	65502	MOJO_T2	0	0	0	0	0	0	-0.66	-0.75	1	1	0	900	900	0
9/30/2024 11:08	65502	MOJO_T2	0	0	0	0	0	0	-0.66	-0.75	1	1	0	900	900	0
9/30/2024 11:08	15204	SFAR_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
9/30/2024 11:08	15203	SFAR_T2	1	1	0	0.1	0.2	0.1	-1.13	-1.13	0	0	0	0	0	0
9/30/2024 11:09	42701	AUGU_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
9/30/2024 11:10	42701	AUGU_T1	1	1	0	1.1	1.1	0	0	0	2	2	0	1800	1800	0
9/30/2024 11:11	53501	EVIL_T2	2	2	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
9/30/2024 11:11	15203	SFAR_T2	1	1	0	0.1	0.2	0.1	-1.13	-1.13	0	0	0	0	0	0
9/30/2024 11:11	53502	EVIL_T2	0	0	0	0	0	0	0.97	0.96	1	1	0	600	600	0
9/30/2024 11:14	53501	EVIL_T2	2	2	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
9/30/2024 11:14	45802	HEGI_T2	107	97	-10	0.45	0.46	0.01	0	0	0	0	0	0	0	0
9/30/2024 11:14	53502	EVIL_T2	0	0	0	0	0	0	0.97	0.96	1	1	0	600	600	0
9/30/2024 11:15	45802	HEGI_T2	97	54	-43	0.53	0.42	-0.11	0	0	0	0	0	0	0	0
9/30/2024 11:16	52001	LING_T1	0	0	0	0	0	0	0.19	0.16	0	0	0	0	0	0
9/30/2024 11:22	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/30/2024 11:26	16103	BING_T2	1	0	-1	4.7	0	-4.7	0	0	0	0	0	0	0	0
9/30/2024 11:26	16101	BING_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
9/30/2024 11:27	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/30/2024 11:30	21601	EYNO_T1	0	0	0	0	0	0	0.05	0.14	0	0	0	0	0	0
9/30/2024 11:38	54601	SUMM_T2	9	9	0	0.26	0.5	0.24	-1.77	-1.8	2	2	0	2100	2100	0
9/30/2024 11:43	10805	OHIL_T2	1	1	0	7.8	7.4	-0.4	-1.36	-1.14	2	2	0	1800	1800	0
9/30/2024 11:46	55002	NEWP_T1	4	5	1	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
9/30/2024 11:46	55001	NEWP_T1	0	0	0	0	0	0	-0.31	-0.23	0	0	0	0	0	0
9/30/2024 11:54	54601	SUMM_T2	8	9	1	0.34	0.6	0.26	-3.6	-3.53	4	4	0	4200	4200	0
9/30/2024 11:54	67402	WAKE_T2	0	0	0	0	0	0	0.37	0.38	1	1	0	600	600	0
9/30/2024 11:55	54601	SUMM_T2	8	9	1	0.34	0.6	0.26	-1.8	-1.76	2	2	0	2100	2100	0
9/30/2024 11:55	67605	WARW_T1	4	12	8	0.18	0.29	0.11	0	0	0	0	0	0	0	0
9/30/2024 11:55	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/30/2024 12:06	15203	SFAR_T2	0	0	0	0	0	0	-1.13	-1.16	0	0	0	0	0	0
9/30/2024 12:07	54601	SUMM_T2	9	9	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/30/2024 12:07	67604	WARW_T1	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
9/30/2024 12:07	54603	SUMM_T2	0	0	0	0	0	0	0.32	0.27	1	1	0	900	900	0
9/30/2024 12:07	45902	AUBU_T1	0	0	0	0	0	0	-0.55	-0.49	1	1	0	600	600	0
9/30/2024 12:07	67605	WARW_T1	3	14	11	0.17	0.42	0.25	0	0	0	0	0	0	0	0
9/30/2024 12:08	13905	SEID_T1	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
9/30/2024 12:08	45902	AUBU_T1	0	0	0	0	0	0	-0.55	-0.49	1	1	0	600	600	0
9/30/2024 12:09	64602	LEOL_T1	0	0	0	0	0	0	0.28	0.24	0	0	0	0	0	0
9/30/2024 12:09	54603	SUMM_T2	0	0	0	0	0	0	0.32	0.27	1	1	0	900	900	0
9/30/2024 12:09	67604	WARW_T1	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
9/30/2024 12:09	54601	SUMM_T2	9	9	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
9/30/2024 12:09	67605	WARW_T1	3	14	11	0.17	0.42	0.25	0	0	0	0	0	0	0	0
9/30/2024 12:09	45902	AUBU_T1	0	0	0	0	0	0	-0.55	-0.49	1	1	0	600	600	0
9/30/2024 12:11	67604	WARW_T1	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
9/30/2024 12:11	22003	BOHE_T1	256	257	1	0.63	0.65	0.02	0	0	0	0	0	0	0	0
9/30/2024 12:11	67605	WARW_T1	3	14	11	0.17	0.42	0.25	0	0	0	0	0	0	0	0
9/30/2024 12:11	22001	BOHE_T1	12	3	-9	0.12	0.1	-0.02	0.21	0.21	0	0	0	0	0	0
9/30/2024 12:13	45902	AUBU_T1	0	0	0	0	0	0	-0.55	-0.49	1	1	0	600	600	0
9/30/2024 12:13	44503	HAMI_T2	0	0	0	0	0	0	-1.19	-1.18	1	1	0	1200	1200	0
9/30/2024 12:13	44505	HAMI_T2	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
9/30/2024 12:13	44502	HAMI_T2	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
9/30/2024 12:16	21202	ECAR_T2	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
9/30/2024 12:16	21204	ECAR_T2	1	1	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
9/30/2024 12:16	21206	ECAR_T2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
9/30/2024 12:17	44502	HAMI_T2	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
9/30/2024 12:17	44505	HAMI_T2	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
9/30/2024 12:19	15602	NSTR_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
9/30/2024 12:19	15601	NSTR_T2	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
9/30/2024 12:20	54601	SUMM_T2	9	9	0	0.6	0.48	-0.12	-1.76	-1.79	2	2	0	2100	2100	0
9/30/2024 12:21	55101	WERT_T1	0	0	0	0	0	0	-1.03	-1.07	1	1	0	600	600	0
9/30/2024 12:21	46302	ROHR_T1	4	111	107	1.5	0.7	-0.8	0	0.05	0	0	0	0	0	0
9/30/2024 12:21	46301	ROHR_T1	1	1	0	7.2	7.4	0.2	0	0	0	0	0	0	0	0
9/30/2024 12:22	15203	SFAR_T2	0	1	1	0	0.1	0.1	-1.16	-1.11	0	0	0	0	0	0
9/30/2024 12:23	67402	WAKE_T2	0	0	0	0	0	0	0.43	0.4	1	1	0	600	600	0
9/30/2024 12:25	46301	ROHR_T1	1	1	0	7.2	7.4	0.2	0	0	0	0	0	0	0	0
9/30/2024 12:25	46302	ROHR_T1	4	111	107	1.5	0.7	-0.8	0	0.05	0	0	0	0	0	0
9/30/2024 12:26	22001	BOHE_T1	1	5	4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
9/30/2024 12:26	22003	BOHE_T1	252	257	5	0.59	0.67	0.08	0	0	0	0	0	0	0	0
9/30/2024 12:26	22002	BOHE_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
9/30/2024 12:28	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
9/30/2024 12:29	67504	WEWI_T1	0	0	0	0	0	0	-0.13	-0.18	1	1	0	900	900	0
9/30/2024 12:30	65603	QVIL_T2	0	0	0	0	0	0	0.32	0.62	0	0	0	0	0	0
9/30/2024 12:32	67504	WEWI_T1	0	0	0	0	0	0	-0.13	-0.18	1	1	0	900	900	0
9/30/2024 12:32	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/30/2024 12:32	63501	HEID_TBK1-2	0	1	1	0	0.3	0.3	0.18	0.16	1	1	0	900	900	0
9/30/2024 12:32	54505	ENOL_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
9/30/2024 12:32	54506	ENOL_T2	0	0	0	0	0	0	0.23	0.36	1	1	0	600	600	0
9/30/2024 12:33	67505	WEWI_T1	0	0	0	0	0	0	-0.11	-0.06	1	1	0	900	900	0
9/30/2024 12:33	63501	HEID_TBK1-2	0	1	1	0	0.3	0.3	0.18	0.16	1	1	0	900	900	0
9/30/2024 12:34	50701	SMEC_T1	0	0	0	0	0	0	0.52	0.42	0	0	0	0	0	0
9/30/2024 12:34	63601	LETO_T1	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
9/30/2024 12:34	63602	LETO_T1	0	0	0	0	0	0	-0.75	-0.34	0	0	0	0	0	0
9/30/2024 12:43	60102	COCA_T1	0	0	0	0	0	0	-0.08	0.16	2	2	0	1200	1200	0
9/30/2024 12:44	55002	NEWP_T1	5	6	1	0.54	0.57	0.03	0	0	0	0	0	0	0	0
9/30/2024 12:44	55001	NEWP_T1	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
9/30/2024 12:48	20603	GRWO_T2	0	0	0	0	0	0	-0.66	-0.57	1	1	0	900	900	0
9/30/2024 12:48	20601	GRWO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
9/30/2024 12:50	65702	RVIL_T2	1	1	0	0.2	0.1	-0.1	-0.9	-0.82	1	1	0	600	600	0
9/30/2024 12:53	65702	RVIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
9/30/2024 13:01	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.21	0	0	0	0	0	0
9/30/2024 13:01	24205	PROV_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/30/2024 13:01	24201	PROV_T3	4	3	-1	1.73	2.33	0.6	-1.31	-1.29	1	1	0	1200	1200	0
9/30/2024 13:01	24204	PROV_T3	2	2	0	3.1	3.1	0	0	0	0	0	0	0	0	0
9/30/2024 13:03	24201	PROV_T3	4	3	-1	1.73	2.33	0.6	-1.31	-1.29	1	1	0	1200	1200	0
9/30/2024 13:03	24204	PROV_T3	2	2	0	3.1	3.1	0	0	0	0	0	0	0	0	0
9/30/2024 13:03	24205	PROV_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/30/2024 13:05	65802	RTWN_T2	0	0	0	0	0	0	-0.2	-0.3	0	0	0	0	0	0
9/30/2024 13:05	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.21	0	0	0	0	0	0
9/30/2024 13:11	60102	COCA_T1	0	88	88	0	0.18	0.18	-0.22	-0.67	2	2	0	1200	1200	0
9/30/2024 13:11	60101	COCA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/30/2024 13:13	23201	HIRU_T2	0	201	201	0	0.26	0.26	0	0	0	0	0	0	0	0
9/30/2024 13:13	23202	HIRU_T2	0	161	161	0	0.16	0.16	0.13	0.13	0	0	0	0	0	0
9/30/2024 13:13	50105	HARR_T3	7	6	-1	5.59	5.52	-0.07	0	0	0	0	0	0	0	0
9/30/2024 13:13	23203	HIRU_T2	0	133	133	0	0.2	0.2	0	0	0	0	0	0	0	0
9/30/2024 13:13	50107	HARR_T3	1	1	0	6.2	5.9	-0.3	0	0	0	0	0	0	0	0
9/30/2024 13:13	50103	HARR_T3	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
9/30/2024 13:16	23202	HIRU_T2	0	167	167	0	0.16	0.16	0	0	0	0	0	0	0	0
9/30/2024 13:16	23201	HIRU_T2	3	205	202	0.13	0.26	0.13	0	0	0	0	0	0	0	0
9/30/2024 13:16	23203	HIRU_T2	0	145	145	0	0.2	0.2	0.25	0.37	0	0	0	0	0	0
9/30/2024 13:18	55001	NEWP_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
9/30/2024 13:18	55002	NEWP_T1	6	6	0	0.65	0.83	0.18	0	0	0	0	0	0	0	0
9/30/2024 13:26	44801	EDAN_T2	145	159	14	0.52	0.55	0.03	0	0	0	0	0	0	0	0
9/30/2024 13:26	44802	EDAN_T2	0	1	1	0	0.2	0.2	-0.57	-0.59	0	0	0	0	0	0
9/30/2024 13:27	67402	WAKE_T2	0	0	0	0	0	0	0.4	0.38	1	1	0	600	600	0
9/30/2024 13:28	44802	EDAN_T2	0	1	1	0	0.2	0.2	-1.14	-1.18	0	0	0	0	0	0
9/30/2024 13:28	44801	EDAN_T2	145	159	14	0.52	0.55	0.03	-1.52	-1.52	0	0	0	0	0	0
9/30/2024 13:29	44802	EDAN_T2	0	1	1	0	0.2	0.2	-1.71	-1.77	0	0	0	0	0	0
9/30/2024 13:29	44801	EDAN_T2	145	159	14	0.52	0.55	0.03	0	0	0	0	0	0	0	0
9/30/2024 13:31	44801	EDAN_T2	153	155	2	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
9/30/2024 13:31	44802	EDAN_T2	1	0	-1	0.2	0	-0.2	-0.57	-0.59	0	0	0	0	0	0
9/30/2024 13:31	55002	NEWP_T1	6	4	-2	0.83	0.63	-0.2	-0.21	-0.23	0	0	0	0	0	0
9/30/2024 13:34	65205	PRIN_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/30/2024 13:34	65206	PRIN_T4	2	0	-2	0.95	0	-0.95	0	0	0	0	0	0	0	0
9/30/2024 13:34	63602	LETO_T1	1	0	-1	0.2	0	-0.2	-0.22	-0.24	0	0	0	0	0	0
9/30/2024 13:34	65207	PRIN_T4	1	5	4	0.9	0.24	-0.66	0	0	2	2	0	1800	1800	0
9/30/2024 13:34	63601	LETO_T1	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
9/30/2024 13:35	57401	SPAN_T1	4	3	-1	0.63	0.6	-0.03	-0.75	-0.63	1	1	0	600	600	0
9/30/2024 13:35	57403	SPAN_T1	84	18	-66	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
9/30/2024 13:36	57401	SPAN_T1	4	3	-1	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
9/30/2024 13:36	57403	SPAN_T1	84	18	-66	0.25	0.22	-0.03	0.04	0.01	0	0	0	0	0	0
9/30/2024 13:39	24902	WHHA_T1	0	0	0	0	0	0	0.76	0.8	0	0	0	0	0	0
9/30/2024 13:40	24902	WHHA_T1	0	0	0	0	0	0	0.76	0.8	0	0	0	0	0	0
9/30/2024 13:40	57403	SPAN_T1	84	18	-66	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
9/30/2024 13:40	57401	SPAN_T1	4	3	-1	0.63	0.6	-0.03	-0.63	-0.67	1	1	0	600	600	0
9/30/2024 13:41	54502	ENOL_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
9/30/2024 13:41	54505	ENOL_T2	1	1	0	1.2	0.9	-0.3	-1.32	-1.3	1	1	0	600	600	0
9/30/2024 13:42	54505	ENOL_T2	1	1	0	1.2	0.9	-0.3	-1.32	-1.3	1	1	0	600	600	0
9/30/2024 13:42	54502	ENOL_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
9/30/2024 13:45	44801	EDAN_T2	151	147	-4	0.49	0.46	-0.03	-1.52	-1.51	0	0	0	0	0	0
9/30/2024 13:45	46101	MACI_T2	0	0	0	0	0	0	-1.11	-1.26	2	2	0	2400	2400	0
9/30/2024 13:46	46101	MACI_T2	0	0	0	0	0	0	-1.11	-1.26	2	2	0	2400	2400	0
9/30/2024 13:50	65702	RVIL_T2	0	0	0	0	0	0	-1.69	-1.64	2	2	0	1200	1200	0
9/30/2024 13:52	65702	RVIL_T2	0	0	0	0	0	0	-0.82	-0.9	1	1	0	600	600	0
9/30/2024 13:54	65702	RVIL_T2	0	0	0	0	0	0	-0.82	-0.9	1	1	0	600	600	0
9/30/2024 13:57	60102	COCA_T1	9	0	-9	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/30/2024 13:57	60101	COCA_T1	1	0	-1	0.2	0	-0.2	0.81	0.8	0	0	0	0	0	0
9/30/2024 14:08	67401	WAKE_T2	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
9/30/2024 14:08	46002	BERW_T2	0	0	0	0	0	0	-1.21	-1.17	1	1	0	900	900	0
9/30/2024 14:08	46004	BERW_T2	1	1	0	0.7	2.1	1.4	0	0	0	0	0	0	0	0
9/30/2024 14:10	44601	SALE_T2	2	0	-2	0.2	0	-0.2	0	0	2	2	0	900	900	0
9/30/2024 14:10	40201	BEGA_T2	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/30/2024 14:11	44601	SALE_T2	2	0	-2	0.2	0	-0.2	0	0	2	2	0	900	900	0
9/30/2024 14:13	46004	BERW_T2	1	1	0	0.7	2.1	1.4	0.28	0.21	0	0	0	0	0	0
9/30/2024 14:14	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 14:14	40201	BEGA_T2	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
9/30/2024 14:14	21206	ECAR_T2	1	1	0	6.5	7	0.5	0.32	0.29	0	0	0	0	0	0
9/30/2024 14:18	67502	WEWI_T2	0	0	0	0	0	0	-0.24	-0.18	0	0	0	0	0	0
9/30/2024 14:18	67503	WEWI_T2	1	1	0	9.3	9.3	0	-0.4	-0.22	0	0	0	0	0	0
9/30/2024 14:19	67503	WEWI_T2	1	1	0	9.3	9.3	0	-0.2	-0.11	0	0	0	0	0	0
9/30/2024 14:19	50501	MECH_T1	4	4	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
9/30/2024 14:19	50502	MECH_T1	1	61	60	2.8	0.18	-2.62	-0.3	-0.29	1	1	0	900	900	0
9/30/2024 14:19	55002	NEWP_T1	6	6	0	0.47	0.52	0.05	-0.24	-0.24	0	0	0	0	0	0
9/30/2024 14:22	67503	WEWI_T2	1	1	0	9.3	9.3	0	0	0	0	0	0	0	0	0
9/30/2024 14:22	67502	WEWI_T2	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
9/30/2024 14:25	57401	SPAN_T1	2	3	1	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/30/2024 14:25	57403	SPAN_T1	12	134	122	0.18	0.21	0.03	0.02	0.03	0	0	0	0	0	0
9/30/2024 14:28	61701	ELIZ_T1	1	1	0	5.5	5.8	0.3	-0.74	-0.69	0	0	0	0	0	0
9/30/2024 14:31	63602	LETO_T1	0	0	0	0	0	0	-0.15	-0.26	0	0	0	0	0	0
9/30/2024 14:31	63601	LETO_T1	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
9/30/2024 14:36	66502	SMAN_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
9/30/2024 14:36	47403	PENS_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
9/30/2024 14:36	64902	MILL_T2	0	0	0	0	0	0	-0.55	-0.52	1	1	0	900	900	0
9/30/2024 14:36	47401	PENS_T1	1	0	-1	0.1	0	-0.1	-0.56	-0.55	0	0	0	0	0	0
9/30/2024 14:38	66502	SMAN_T2	0	0	0	0	0	0	0.59	0.45	0	0	0	0	0	0
9/30/2024 14:39	66502	SMAN_T2	0	0	0	0	0	0	0.59	0.45	0	0	0	0	0	0
9/30/2024 14:44	50107	HARR_T3	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
9/30/2024 14:44	50105	HARR_T3	6	7	1	5.58	5.38	-0.2	0	0	0	0	0	0	0	0
9/30/2024 14:44	50103	HARR_T3	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
9/30/2024 14:47	16901	MECK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
9/30/2024 14:47	16902	MECK_T1	1	0	-1	0.1	0	-0.1	0.05	0.05	0	0	0	0	0	0
9/30/2024 14:48	46602	LACR_T1	0	0	0	0	0	0	-0.92	-0.87	0	0	0	0	0	0
9/30/2024 14:49	13502	MCMI_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
9/30/2024 14:50	65206	PRIN_T4	1	3	2	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
9/30/2024 14:50	65207	PRIN_T4	17	39	22	0.19	0.17	-0.02	0	0	0	0	0	0	0	0
9/30/2024 14:50	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 14:54	40101	HUNT_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
9/30/2024 15:11	44301	BEAV_T2	0	0	0	0	0	0	0.2	-0.18	1	1	0	600	600	0
9/30/2024 15:14	67603	WARW_T1	0	0	0	0	0	0	-0.02	0.04	0	0	0	0	0	0
9/30/2024 15:14	67605	WARW_T1	14	22	8	0.43	0.53	0.1	0	0	0	0	0	0	0	0
9/30/2024 15:18	65603	QVIL_T2	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
9/30/2024 15:20	67603	WARW_T1	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
9/30/2024 15:20	52503	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 15:20	52502	PROG_T2	0	0	0	0	0	0	-0.65	-0.65	1	1	0	900	900	0
9/30/2024 15:20	67605	WARW_T1	20	22	2	0.46	0.56	0.1	0	0	0	0	0	0	0	0
9/30/2024 15:21	67605	WARW_T1	20	22	2	0.46	0.56	0.1	0	0	0	0	0	0	0	0
9/30/2024 15:21	67603	WARW_T1	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
9/30/2024 15:22	43802	SWIL_T1	0	0	0	0	0	0	-0.1	-0.1	1	1	0	600	600	0
9/30/2024 15:22	43801	SWIL_T1	1	2	1	5.6	3.3	-2.3	0	0	0	0	0	0	0	0
9/30/2024 15:22	24901	WHHA_T1	0	1	1	0	0.5	0.5	0.56	0.54	0	0	0	0	0	0
9/30/2024 15:22	66502	SMAN_T2	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
9/30/2024 15:24	43802	SWIL_T1	0	0	0	0	0	0	-0.1	-0.1	1	1	0	600	600	0
9/30/2024 15:24	43801	SWIL_T1	1	2	1	5.6	3.3	-2.3	0	0	0	0	0	0	0	0
9/30/2024 15:25	24901	WHHA_T1	0	1	1	0	0.5	0.5	0.56	0.54	0	0	0	0	0	0
9/30/2024 15:26	50623	CCTY_T2	5	5	0	5.52	5.48	-0.04	0	0	0	0	0	0	0	0
9/30/2024 15:26	50624	CCTY_T2	2	2	0	5.8	5.8	0	0	0	0	0	0	0	0	0
9/30/2024 15:26	50625	CCTY_T2	5	5	0	2.86	2.82	-0.04	0	0	0	0	0	0	0	0
9/30/2024 15:26	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 15:29	63804	HEMP_T1	1	1	0	5.9	5.6	-0.3	0	0	0	0	0	0	0	0
9/30/2024 15:29	63801	HEMP_T1	0	0	0	0	0	0	-0.57	-0.74	1	1	0	900	900	0
9/30/2024 15:29	67605	WARW_T1	20	22	2	0.46	0.56	0.1	-1.06	-1.04	0	0	0	0	0	0
9/30/2024 15:30	58705	ROSE_T2	5	5	0	2.38	2.1	-0.28	0	0	0	0	0	0	0	0
9/30/2024 15:30	67201	TEHI_T1	1	0	-1	0.1	0	-0.1	0.63	0.31	2	2	0	1500	1500	0
9/30/2024 15:30	58702	ROSE_T2	0	0	0	0	0	0	-0.06	-0.22	0	0	0	0	0	0
9/30/2024 15:34	42701	AUGU_T1	1	0	-1	9.2	0	-9.2	0	0	1	1	0	600	600	0
9/30/2024 15:35	50501	MECH_T1	4	0	-4	0.55	0	-0.55	0	0	0	0	0	0	0	0
9/30/2024 15:35	50502	MECH_T1	99	5	-94	0.22	0.64	0.42	0	0	0	0	0	0	0	0
9/30/2024 15:35	50506	MECH_T1	0	0	0	0	0	0	-0.01	0.84	1	0	-1	900	0	-900
9/30/2024 15:37	24801	VALM_T1	0	0	0	0	0	0	-0.21	-0.27	0	0	0	0	0	0
9/30/2024 15:38	45302	WBER_T2	0	0	0	0	0	0	1.05	1.07	0	0	0	0	0	0
9/30/2024 15:40	60102	COCA_T1	11	0	-11	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/30/2024 15:40	60101	COCA_T1	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
9/30/2024 15:53	15202	SFAR_T1	0	0	0	0	0	0	-0.94	-0.9	1	1	0	1200	1200	0
9/30/2024 15:54	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 15:58	26704	HEML_T2	0	18	18	0	0.11	0.11	-0.75	-0.76	1	1	0	1200	1200	0
9/30/2024 16:06	57401	SPAN_T1	2	4	2	0.8	0.8	0	-0.68	-0.6	1	1	0	600	600	0
9/30/2024 16:06	57403	SPAN_T1	51	29	-22	0.21	0.29	0.08	0	0	0	0	0	0	0	0
9/30/2024 16:09	66502	SMAN_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
9/30/2024 16:11	60101	COCA_T1	0	0	0	0	0	0	0.32	0.41	0	0	0	0	0	0
9/30/2024 16:11	54503	ENOL_T2	0	0	0	0	0	0	-0.37	-0.36	1	1	0	600	600	0
9/30/2024 16:11	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/30/2024 16:13	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
9/30/2024 16:13	63305	GREE_T1	0	0	0	0	0	0	-1.18	-1.16	0	0	0	0	0	0
9/30/2024 16:13	54503	ENOL_T2	0	0	0	0	0	0	-0.37	-0.36	1	1	0	600	600	0
9/30/2024 16:13	45501	DERR_T2	0	0	0	0	0	0	0.59	0.5	2	2	0	1800	1800	0
9/30/2024 16:14	61701	ELIZ_T1	1	1	0	5.8	5.9	0.1	-0.9	-0.73	0	0	0	0	0	0
9/30/2024 16:14	60102	COCA_T1	0	0	0	0	0	0	0.32	0.41	0	0	0	0	0	0
9/30/2024 16:14	23901	EFMO_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
9/30/2024 16:15	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
9/30/2024 16:15	60101	COCA_T1	0	0	0	0	0	0	0.32	0.41	0	0	0	0	0	0
9/30/2024 16:15	54503	ENOL_T2	0	0	0	0	0	0	-0.37	-0.36	1	1	0	600	600	0
9/30/2024 16:15	63305	GREE_T1	0	0	0	0	0	0	-1.18	-1.16	0	0	0	0	0	0
9/30/2024 16:16	54503	ENOL_T2	0	0	0	0	0	0	-0.37	-0.36	1	1	0	600	600	0
9/30/2024 16:16	60101	COCA_T1	0	0	0	0	0	0	0.32	0.41	0	0	0	0	0	0
9/30/2024 16:16	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
9/30/2024 16:18	52006	LING_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
9/30/2024 16:18	52004	LING_T2	2	2	0	6.1	6	-0.1	0.11	0.1	0	0	0	0	0	0
9/30/2024 16:18	52002	LING_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
9/30/2024 16:21	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 16:24	66505	SMAN_T2	0	0	0	0	0	0	0.59	0.5	1	1	0	900	900	0
9/30/2024 16:26	66505	SMAN_T2	0	0	0	0	0	0	0.59	0.5	1	1	0	900	900	0
9/30/2024 16:35	15603	NSTR_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
9/30/2024 16:37	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/30/2024 16:37	67605	WARW_T1	24	20	-4	0.5	0.49	-0.01	0	0	0	0	0	0	0	0
9/30/2024 16:42	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 16:45	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 16:46	20201	JERM_T1	0	0	0	0	0	0	-0.41	-0.43	2	2	0	2400	2400	0
9/30/2024 16:51	64704	LITI_T1	0	0	0	0	0	0	0.32	0.14	1	1	0	600	600	0
9/30/2024 17:08	44302	BEAV_T2	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
9/30/2024 17:11	52204	DEVO_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 17:11	52202	DEVO_T2	0	0	0	0	0	0	0.57	0.54	0	0	0	0	0	0
9/30/2024 17:12	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/30/2024 17:16	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
9/30/2024 17:16	52202	DEVO_T2	0	0	0	0	0	0	0.57	0.54	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/30/2024 17:16	52204	DEVO_T2	0	3	3	0	0.65	0.65	0	0	0	0	0	0	0	0
9/30/2024 17:16	46506	LOHA_T1	4	4	0	3.75	3.6	-0.15	0	0	0	0	0	0	0	0
9/30/2024 17:17	22701	MINO_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	600	600	0
9/30/2024 17:17	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
9/30/2024 17:17	46506	LOHA_T1	4	4	0	3.75	3.6	-0.15	0	0	0	0	0	0	0	0
9/30/2024 17:23	15202	SFAR_T1	0	0	0	0	0	0	-0.94	-0.97	1	1	0	1200	1200	0
9/30/2024 17:24	15202	SFAR_T1	0	0	0	0	0	0	-0.94	-0.97	1	1	0	1200	1200	0
9/30/2024 17:32	64201	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
9/30/2024 17:32	64204	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
9/30/2024 17:32	64203	KINZ_T1	0	0	0	0	0	0	-0.25	-0.33	1	1	0	600	600	0
9/30/2024 17:32	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/30/2024 17:32	11604	CEAL_T1	4	0	-4	0.18	0	-0.18	0	0	0	0	0	0	0	0
9/30/2024 17:32	64202	KINZ_T1	3	3	0	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
9/30/2024 17:36	24202	PROV_T4	0	1	1	0	0	0	0	0	1	1	0	1200	1200	0
9/30/2024 17:49	61102	BERK_T5	1148	1141	-7	1.54	1.27	-0.27	0	0	0	0	0	0	0	0
9/30/2024 17:49	61103	BERK_T5	1	1	0	1.2	0.8	-0.4	-0.01	-0.01	0	0	0	0	0	0
9/30/2024 17:49	61101	BERK_T5	0	2	2	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 19:26	65702	RVIL_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
9/30/2024 19:58	64202	KINZ_T1	7	3	-4	0.26	0.67	0.41	0.81	0.82	0	0	0	0	0	0
9/30/2024 19:58	64201	KINZ_T1	7	7	0	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
9/30/2024 19:58	64204	KINZ_T1	8	11	3	0.24	0.19	-0.05	0	0	0	0	0	0	0	0
9/30/2024 20:08	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 20:16	57401	SPAN_T1	3	6	3	1.83	0.54	-1.29	-0.79	-0.81	1	1	0	600	600	0
9/30/2024 20:16	57403	SPAN_T1	23	74	51	0.3	0.31	0.01	0	0	0	0	0	0	0	0
9/30/2024 20:19	61801	EELI_T2	1	1	0	0.2	0.4	0.2	-0.92	-0.89	1	1	0	600	600	0
9/30/2024 20:22	45302	WBER_T2	0	0	0	0	0	0	0.87	0.89	0	0	0	0	0	0
9/30/2024 20:24	45902	AUBU_T1	0	0	0	0	0	0	-0.96	-0.95	1	1	0	600	600	0
9/30/2024 20:25	65503	MOJO_T2	2	196	194	0.1	0.22	0.12	-0.17	-0.19	0	0	0	0	0	0
9/30/2024 20:25	65502	MOJO_T2	181	339	158	0.15	0.42	0.27	0	0	0	0	0	0	0	0
9/30/2024 20:26	46004	BERW_T2	0	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0
9/30/2024 20:26	66502	SMAN_T2	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
9/30/2024 20:26	66504	SMAN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/30/2024 20:26	44502	HAMI_T2	1	1	0	3.1	3.4	0.3	0	0	0	0	0	0	0	0
9/30/2024 20:26	46002	BERW_T2	0	0	0	0	0	0	-1.61	-1.67	1	1	0	900	900	0
9/30/2024 20:26	44503	HAMI_T2	0	0	0	0	0	0	-1.17	-1.18	1	1	0	1200	1200	0
9/30/2024 20:28	46301	ROHR_T1	1	1	0	5.4	6	0.6	0	0	0	0	0	0	0	0
9/30/2024 20:28	50103	HARR_T3	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
9/30/2024 20:28	50102	HARR_T3	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
9/30/2024 20:28	45902	AUBU_T1	0	0	0	0	0	0	-1.92	-1.89	2	2	0	1200	1200	0
9/30/2024 20:28	50201	HARR_T3	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
9/30/2024 20:28	45501	DERR_T2	0	0	0	0	0	0	0.62	0.69	2	2	0	1800	1800	0
9/30/2024 20:28	50202	HARR_T3	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
9/30/2024 20:28	46302	ROHR_T1	2	4	2	1	1.13	0.13	0.16	0.15	0	0	0	0	0	0
9/30/2024 20:28	50107	HARR_T3	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
9/30/2024 20:28	47401	PENS_T1	0	0	0	0	0	0	0.61	0.63	0	0	0	0	0	0
9/30/2024 20:28	50105	HARR_T3	6	7	1	5.48	5.23	-0.25	0	0	0	0	0	0	0	0
9/30/2024 20:29	44801	EDAN_T2	38	76	38	0.34	0.52	0.18	-1.61	-1.62	0	0	0	0	0	0
9/30/2024 20:29	55101	WERT_T1	0	0	0	0	0	0	-1.07	-1.08	1	1	0	600	600	0
9/30/2024 20:29	67502	WEWI_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
9/30/2024 20:29	67503	WEWI_T2	1	1	0	7.7	8.4	0.7	0	0	0	0	0	0	0	0
9/30/2024 20:29	64903	MILL_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
9/30/2024 20:30	15203	SFAR_T2	0	0	0	0	0	0	-1.11	-1.14	0	0	0	0	0	0
9/30/2024 20:30	66502	SMAN_T2	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
9/30/2024 20:31	45902	AUBU_T1	0	0	0	0	0	0	-0.96	-0.95	1	1	0	600	600	0
9/30/2024 20:31	22701	MINO_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	600	600	0
9/30/2024 20:31	45802	HEGI_T2	7	43	36	0.19	0.81	0.62	0	0	0	0	0	0	0	0
9/30/2024 20:32	51904	COPA_T1	5	5	0	0.82	1.1	0.28	0	0	0	0	0	0	0	0
9/30/2024 20:32	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/30/2024 20:32	16101	BING_T2	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
9/30/2024 20:32	57403	SPAN_T1	46	131	85	0.3	0.33	0.03	0	0	0	0	0	0	0	0
9/30/2024 20:32	51902	COPA_T1	0	0	0	0	0	0	-0.48	-0.5	1	1	0	1200	1200	0
9/30/2024 20:32	13905	SEID_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
9/30/2024 20:32	54505	ENOL_T2	1	1	0	0.8	1	0.2	-1.29	-1.31	1	1	0	600	600	0
9/30/2024 20:32	57401	SPAN_T1	2	9	7	1.1	0.4	-0.7	-0.81	-0.84	1	1	0	600	600	0
9/30/2024 20:32	54502	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/30/2024 20:33	17002	RIRO_T2	14	61	47	0.14	0.17	0.03	0.37	0.37	0	0	0	0	0	0
9/30/2024 20:33	16902	MECK_T1	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
9/30/2024 20:33	53501	EVIL_T2	1	3	2	1	0.47	-0.53	0	0	0	0	0	0	0	0
9/30/2024 20:33	65503	MOJO_T2	44	219	175	0.14	0.23	0.09	0	0	0	0	0	0	0	0
9/30/2024 20:33	65502	MOJO_T2	285	342	57	0.23	0.45	0.22	-1.64	-1.65	1	1	0	900	900	0
9/30/2024 20:33	53502	EVIL_T2	0	1	1	0	0.1	0.1	0.92	0.91	0	0	0	0	0	0
9/30/2024 20:34	44801	EDAN_T2	56	115	59	0.39	0.46	0.07	0	0	0	0	0	0	0	0
9/30/2024 20:34	44802	EDAN_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
9/30/2024 20:35	44502	HAMI_T2	1	1	0	3.4	3.3	-0.1	0	0	0	0	0	0	0	0
9/30/2024 20:35	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
9/30/2024 20:35	46602	LACR_T1	1	0	-1	0.1	0	-0.1	-0.85	-0.89	0	0	0	0	0	0
9/30/2024 20:35	54502	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/30/2024 20:35	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/30/2024 20:35	54506	ENOL_T2	0	0	0	0	0	0	0.27	0.21	1	1	0	600	600	0
9/30/2024 20:35	61701	ELIZ_T1	1	1	0	5.6	5.8	0.2	-0.65	-0.76	0	0	0	0	0	0
9/30/2024 20:35	57403	SPAN_T1	46	131	85	0.3	0.33	0.03	0	0	0	0	0	0	0	0
9/30/2024 20:35	53502	EVIL_T2	0	1	1	0	0.1	0.1	0.92	0.91	0	0	0	0	0	0
9/30/2024 20:35	57401	SPAN_T1	2	9	7	1.1	0.4	-0.7	-0.81	-0.84	1	1	0	600	600	0
9/30/2024 20:35	53501	EVIL_T2	1	3	2	1	0.47	-0.53	0	0	0	0	0	0	0	0
9/30/2024 20:35	44505	HAMI_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
9/30/2024 20:35	64904	MILL_T1	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
9/30/2024 20:35	66502	SMAN_T2	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
9/30/2024 20:36	50102	HARR_T3	3	4	1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
9/30/2024 20:36	54502	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/30/2024 20:36	50201	HARR_T3	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
9/30/2024 20:36	50107	HARR_T3	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
9/30/2024 20:36	45501	DERR_T2	0	0	0	0	0	0	1.37	1.32	4	4	0	3600	3600	0
9/30/2024 20:36	58401	MORO_T1	0	0	0	0	0	0	-1.13	-1.15	1	1	0	600	600	0
9/30/2024 20:36	50625	CCTY_T2	6	5	-1	2.42	2.68	0.26	0	0	0	0	0	0	0	0
9/30/2024 20:36	61701	ELIZ_T1	1	1	0	5.6	5.8	0.2	-0.65	-0.76	0	0	0	0	0	0
9/30/2024 20:36	54505	ENOL_T2	1	1	0	0.8	1	0.2	-1.29	-1.31	1	1	0	600	600	0
9/30/2024 20:36	50103	HARR_T3	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
9/30/2024 20:36	64903	MILL_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
9/30/2024 20:36	40101	HUNT_T2	3	0	-3	0.73	0	-0.73	0	0	0	0	0	0	0	0
9/30/2024 20:36	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
9/30/2024 20:36	67503	WEWI_T2	1	1	0	8	8.7	0.7	0	0	0	0	0	0	0	0
9/30/2024 20:36	50624	CCTY_T2	2	2	0	5.55	5.75	0.2	0	0	0	0	0	0	0	0
9/30/2024 20:36	50105	HARR_T3	6	7	1	5.4	5.22	-0.18	0	0	0	0	0	0	0	0
9/30/2024 20:36	67502	WEWI_T2	0	16	16	0	0.11	0.11	-0.35	-0.37	0	0	0	0	0	0
9/30/2024 20:36	50202	HARR_T3	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
9/30/2024 20:36	24801	VALM_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
9/30/2024 20:36	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 20:36	50623	CCTY_T2	5	5	0	5.38	5.22	-0.16	0	0	0	0	0	0	0	0
9/30/2024 20:37	50501	MECH_T1	4	4	0	1.2	1.2	0	0	0	0	0	0	0	0	0
9/30/2024 20:37	50502	MECH_T1	156	171	15	0.61	0.64	0.03	-0.45	-0.44	1	1	0	900	900	0
9/30/2024 20:37	10206	ALLE_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
9/30/2024 20:37	67504	WEWI_T1	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
9/30/2024 20:37	50504	MECH_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
9/30/2024 20:37	65207	PRIN_T4	1	1	0	1	1.1	0.1	0	0	1	1	0	1200	1200	0
9/30/2024 20:37	67502	WEWI_T2	0	16	16	0	0.11	0.11	0	0	0	0	0	0	0	0
9/30/2024 20:37	10102	ALLE_T2	1	1	0	6.7	6.3	-0.4	0	0	0	0	0	0	0	0
9/30/2024 20:37	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 20:37	65206	PRIN_T4	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/30/2024 20:37	65802	RTWN_T2	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
9/30/2024 20:37	67503	WEWI_T2	1	1	0	8	8.7	0.7	-0.17	-0.21	0	0	0	0	0	0
9/30/2024 20:38	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/30/2024 20:38	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/30/2024 20:38	15202	SFAR_T1	0	0	0	0	0	0	-0.13	-0.11	1	1	0	1200	1200	0
9/30/2024 20:38	65503	MOJO_T2	44	219	175	0.14	0.23	0.09	-0.19	-0.23	0	0	0	0	0	0
9/30/2024 20:38	65502	MOJO_T2	285	342	57	0.23	0.45	0.22	0	0	0	0	0	0	0	0
9/30/2024 20:38	54503	ENOL_T2	0	0	0	0	0	0	-0.35	-0.36	1	1	0	600	600	0
9/30/2024 20:38	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/30/2024 20:38	43802	SWIL_T1	0	0	0	0	0	0	-0.08	-0.1	1	1	0	600	600	0
9/30/2024 20:38	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 20:38	43801	SWIL_T1	8	2	-6	0.98	3.35	2.37	0	0	0	0	0	0	0	0
9/30/2024 20:38	10805	CHHI_T2	1	1	0	7.7	7.2	-0.5	-1.03	-1.03	1	1	0	600	600	0
9/30/2024 20:38	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
9/30/2024 20:38	54502	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/30/2024 20:38	63602	LETO_T1	0	55	55	0	0.64	0.64	-0.49	-0.33	0	0	0	0	0	0
9/30/2024 20:39	46301	ROHR_T1	1	1	0	5.6	6.1	0.5	0	0	0	0	0	0	0	0
9/30/2024 20:39	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/30/2024 20:39	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
9/30/2024 20:39	44802	EDAN_T2	0	0	0	0	0	0	-1.98	-2.01	0	0	0	0	0	0
9/30/2024 20:39	44801	EDAN_T2	56	115	59	0.39	0.46	0.07	0	0	0	0	0	0	0	0
9/30/2024 20:39	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/30/2024 20:39	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/30/2024 20:39	66502	SMAN_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
9/30/2024 20:39	54601	SUMM_T2	3	9	6	0.17	0.28	0.11	-3.57	-3.62	4	4	0	4200	4200	0
9/30/2024 20:39	63602	LETO_T1	0	55	55	0	0.64	0.64	-0.49	-0.33	0	0	0	0	0	0
9/30/2024 20:39	46302	ROHR_T1	4	4	0	1.03	1.18	0.15	0.15	0.16	0	0	0	0	0	0
9/30/2024 20:39	64902	MILL_T2	0	0	0	0	0	0	-1.32	-1.33	2	2	0	1800	1800	0
9/30/2024 20:39	54502	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/30/2024 20:39	44601	SALE_T2	0	0	0	0	0	0	0	0	2	2	0	600	600	0
9/30/2024 20:39	54503	ENOL_T2	0	0	0	0	0	0	-0.35	-0.36	1	1	0	600	600	0
9/30/2024 20:40	67502	WEWI_T2	0	16	16	0	0.11	0.11	-0.37	-0.41	0	0	0	0	0	0
9/30/2024 20:40	15703	TANN_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
9/30/2024 20:40	25402	LAHA_T2	0	0	0	0	0	0	-0.86	-0.85	0	0	0	0	0	0
9/30/2024 20:40	23202	HIRU_T2	7	18	11	0.14	0.19	0.05	0.12	0.11	0	0	0	0	0	0
9/30/2024 20:40	50506	MECH_T1	0	0	0	0	0	0	0.15	0.09	0	0	0	0	0	0
9/30/2024 20:40	54505	ENOL_T2	1	1	0	0.8	1	0.2	-1.31	-1.29	1	1	0	600	600	0
9/30/2024 20:40	50504	MECH_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
9/30/2024 20:40	64902	MILL_T2	0	0	0	0	0	0	-0.66	-0.67	1	1	0	900	900	0
9/30/2024 20:40	54503	ENOL_T2	0	0	0	0	0	0	-0.35	-0.36	1	1	0	600	600	0
9/30/2024 20:40	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 20:40	50501	MECH_T1	4	4	0	1.2	1.2	0	0	0	0	0	0	0	0	0
9/30/2024 20:40	54502	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/30/2024 20:40	25404	LAHA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/30/2024 20:40	54601	SUMM_T2	3	9	6	0.17	0.28	0.11	-1.78	-1.81	2	2	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/30/2024 20:40	24902	WHHA_T1	0	0	0	0	0	0	0.76	0.77	0	0	0	0	0	0
9/30/2024 20:40	67503	WEWI_T2	1	1	0	8	8.7	0.7	0	0	0	0	0	0	0	0
9/30/2024 20:40	15702	TANN_T2	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
9/30/2024 20:40	23203	HIRU_T2	10	60	50	0.11	0.15	0.04	0	0	0	0	0	0	0	0
9/30/2024 20:40	23201	HIRU_T2	6	42	36	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
9/30/2024 20:40	50502	MECH_T1	156	171	15	0.61	0.64	0.03	0	0	0	0	0	0	0	0
9/30/2024 20:41	55002	NEWP_T1	3	6	3	0.5	0.58	0.08	-0.25	-0.25	0	0	0	0	0	0
9/30/2024 20:41	63305	GREE_T1	1	4	3	0.1	0.1	0	-1.29	-1.24	0	0	0	0	0	0
9/30/2024 20:41	21206	ECAR_T2	1	1	0	7.1	6.6	-0.5	1.47	1.39	0	0	0	0	0	0
9/30/2024 20:41	28704	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
9/30/2024 20:41	28703	HAMI_T2	3	0	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
9/30/2024 20:41	46506	LOHA_T1	3	4	1	4.33	3.55	-0.78	0	0	0	0	0	0	0	0
9/30/2024 20:41	46504	LOHA_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
9/30/2024 20:41	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 20:41	66502	SMAN_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
9/30/2024 20:41	63501	HEID_TBK1-2	1	1	0	1.3	1.3	0	0.5	0.54	0	0	0	0	0	0
9/30/2024 20:41	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 20:41	26704	HEML_T2	64	91	27	0.22	0.41	0.19	-0.82	-0.84	1	1	0	1200	1200	0
9/30/2024 20:41	60101	COCA_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
9/30/2024 20:41	67605	WARW_T1	22	15	-7	0.51	0.56	0.05	0	0	0	0	0	0	0	0
9/30/2024 20:41	64902	MILL_T2	0	0	0	0	0	0	-0.66	-0.67	1	1	0	900	900	0
9/30/2024 20:41	46101	MACI_T2	0	0	0	0	0	0	-0.61	-0.58	1	1	0	1200	1200	0
9/30/2024 20:41	54601	SUMM_T2	3	9	6	0.17	0.28	0.11	0	0	0	0	0	0	0	0
9/30/2024 20:41	23901	EFMO_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
9/30/2024 20:41	13501	MCMI_T1	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
9/30/2024 20:41	54603	SUMM_T2	0	0	0	0	0	0	0.31	0.28	1	1	0	900	900	0
9/30/2024 20:41	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
9/30/2024 20:41	67504	WEWI_T1	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
9/30/2024 20:41	44801	EDAN_T2	56	115	59	0.39	0.46	0.07	-1.62	-1.62	0	0	0	0	0	0
9/30/2024 20:41	67604	WARW_T1	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
9/30/2024 20:41	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/30/2024 20:41	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 20:41	15204	SFAR_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
9/30/2024 20:41	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 20:42	65206	PRIN_T4	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
9/30/2024 20:42	65207	PRIN_T4	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
9/30/2024 20:42	15603	NSTR_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
9/30/2024 20:42	44505	HAMI_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
9/30/2024 20:42	23202	HIRU_T2	7	18	11	0.14	0.19	0.05	0	0	0	0	0	0	0	0
9/30/2024 20:42	22003	BOHE_T1	400	440	40	0.81	0.93	0.12	0	0	0	0	0	0	0	0
9/30/2024 20:42	15601	NSTR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
9/30/2024 20:42	23201	HIRU_T2	6	42	36	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
9/30/2024 20:42	23203	HIRU_T2	10	60	50	0.11	0.15	0.04	0.37	0.33	0	0	0	0	0	0
9/30/2024 20:42	64704	LITI_T1	0	0	0	0	0	0	0.11	0.77	1	0	-1	600	0	-600
9/30/2024 20:42	22002	BOHE_T1	8	14	6	0.26	0.31	0.05	0	0	0	0	0	0	0	0
9/30/2024 20:42	24901	WHHA_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
9/30/2024 20:42	22001	BOHE_T1	250	382	132	0.23	0.3	0.07	0.25	0.23	0	0	0	0	0	0
9/30/2024 20:42	44502	HAMI_T2	1	1	0	3.4	3.3	-0.1	0	0	0	0	0	0	0	0
9/30/2024 20:42	45802	HEGI_T2	7	43	36	0.19	0.81	0.62	0.81	0.62	0	0	0	0	0	0
9/30/2024 20:42	67502	WEWI_T2	0	16	16	0	0.11	0.11	-0.37	-0.41	0	0	0	0	0	0
9/30/2024 20:42	66502	SMAN_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
9/30/2024 20:42	67505	WEWI_T1	0	0	0	0	0	0	-0.11	-0.11	1	1	0	900	900	0
9/30/2024 20:42	20201	JERM_T1	1	0	-1	0.1	0	-0.1	0.02	-0.35	2	2	0	2400	2400	0
9/30/2024 20:42	67503	WEWI_T2	1	1	0	8	8.7	0.7	-0.17	-0.21	0	0	0	0	0	0
9/30/2024 20:42	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 20:42	15203	SFAR_T2	0	0	0	0	0	0	-1.14	-1.13	0	0	0	0	0	0
9/30/2024 20:42	65802	RTWN_T2	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
9/30/2024 20:43	67605	WARW_T1	22	15	-7	0.51	0.56	0.05	0	0	0	0	0	0	0	0
9/30/2024 20:43	45802	HEGI_T2	7	43	36	0.19	0.81	0.62	0.81	0.62	0	0	0	0	0	0
9/30/2024 20:43	67603	WARW_T1	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
9/30/2024 20:43	15202	SFAR_T1	0	0	0	0	0	0	-0.13	-0.11	1	1	0	1200	1200	0
9/30/2024 20:43	15203	SFAR_T2	0	0	0	0	0	0	-1.14	-1.13	0	0	0	0	0	0
9/30/2024 20:43	58401	MORO_T1	0	0	0	0	0	0	-1.15	-1.14	1	1	0	600	600	0
9/30/2024 20:43	44301	BEAV_T2	2	2	0	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
9/30/2024 20:43	65702	RVIL_T2	0	0	0	0	0	0	-0.5	-0.54	0	0	0	0	0	0
9/30/2024 20:43	44302	BEAV_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
9/30/2024 20:44	20603	GRWO_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
9/30/2024 20:44	66505	SMAN_T2	0	0	0	0	0	0	0.27	0.41	1	1	0	900	900	0
9/30/2024 20:44	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/30/2024 20:44	54503	ENOL_T2	0	0	0	0	0	0	-0.35	-0.36	1	1	0	600	600	0
9/30/2024 20:44	64701	LITI_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
9/30/2024 20:44	63602	LETO_T1	0	55	55	0	0.64	0.64	-0.49	-0.33	0	0	0	0	0	0
9/30/2024 20:44	54502	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
9/30/2024 20:44	54603	SUMM_T2	0	0	0	0	0	0	0.31	0.28	1	1	0	900	900	0
9/30/2024 20:44	64602	LEOL_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
9/30/2024 20:44	54601	SUMM_T2	3	9	6	0.17	0.28	0.11	0	0	0	0	0	0	0	0
9/30/2024 20:44	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
9/30/2024 20:44	60101	COCA_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
9/30/2024 20:44	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
9/30/2024 20:45	24201	PROV_T3	89	106	17	0.2	0.21	0.01	-1.39	-1.42	1	1	0	1200	1200	0
9/30/2024 20:45	24105	EHAZ_T1	4	4	0	6.13	6.13	0	0	0	0	0	0	0	0	0
9/30/2024 20:45	58702	ROSE_T2	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
9/30/2024 20:45	22003	BOHE_T1	440	254	-186	0.93	0.59	-0.34	0	0	0	0	0	0	0	0
9/30/2024 20:45	24102	EHAZ_T1	0	1	1	0	0	0	0.66	0.66	0	0	0	0	0	0
9/30/2024 20:45	58701	ROSE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
9/30/2024 20:45	67605	WARW_T1	15	12	-3	0.56	0.33	-0.23	0	0	0	0	0	0	0	0
9/30/2024 20:45	63501	HEID_TBK1-2	1	1	0	1.3	1.4	0.1	0.5	0.54	0	0	0	0	0	0
9/30/2024 20:45	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	-1.31	-1.29	1	1	0	600	600	0
9/30/2024 20:45	22002	BOHE_T1	14	0	-14	0.31	0	-0.31	0.31	0.25	0	0	0	0	0	0
9/30/2024 20:45	54502	ENOL_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
9/30/2024 20:45	15703	TANN_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
9/30/2024 20:45	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.71	-0.69	0	0	0	0	0	0
9/30/2024 20:45	22001	BOHE_T1	382	0	-382	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/30/2024 20:45	46101	MACI_T2	0	0	0	0	0	0	-0.61	-0.58	1	1	0	1200	1200	0
9/30/2024 20:45	58705	ROSE_T2	5	5	0	2.48	2.7	0.22	0	0	0	0	0	0	0	0
9/30/2024 20:45	24204	PROV_T3	13	14	1	0.54	0.51	-0.03	0	0	0	0	0	0	0	0
9/30/2024 20:45	24202	PROV_T4	0	2	2	0	0	0	0	0	1	1	0	1200	1200	0
9/30/2024 20:45	67603	WARW_T1	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
9/30/2024 20:45	15203	SFAR_T2	0	0	0	0	0	0	-1.14	-1.13	0	0	0	0	0	0
9/30/2024 20:46	64202	KINZ_T1	8	9	1	0.4	0.34	-0.06	0	0	0	0	0	0	0	0
9/30/2024 20:46	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
9/30/2024 20:46	64204	KINZ_T1	20	17	-3	0.22	0.23	0.01	0	0	0	0	0	0	0	0
9/30/2024 20:46	67604	WARW_T1	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
9/30/2024 20:46	52002	LING_T2	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
9/30/2024 20:46	60102	COCA_T1	0	0	0	0	0	0	1.56	1.46	2	2	0	1200	1200	0
9/30/2024 20:46	64201	KINZ_T1	7	6	-1	0.53	0.42	-0.11	0	0	0	0	0	0	0	0
9/30/2024 20:46	66505	SMAN_T2	0	0	0	0	0	0	0.27	0.41	1	1	0	900	900	0
9/30/2024 20:46	67603	WARW_T1	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
9/30/2024 20:46	65503	MOJO_T2	196	191	-5	0.22	0.23	0.01	0	0	0	0	0	0	0	0
9/30/2024 20:46	52006	LING_T2	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
9/30/2024 20:46	65502	MOJO_T2	338	339	1	0.42	0.44	0.02	-1.65	-1.7	1	1	0	900	900	0
9/30/2024 20:46	52502	PROG_T2	0	0	0	0	0	0	-0.61	-0.62	1	1	0	900	900	0
9/30/2024 20:46	60101	COCA_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
9/30/2024 20:46	54502	ENOL_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
9/30/2024 20:46	64203	KINZ_T1	6	0	-6	0.1	0	-0.1	-0.37	0.3	1	0	-1	600	0	-600
9/30/2024 20:46	67605	WARW_T1	15	12	-3	0.56	0.33	-0.23	0	0	0	0	0	0	0	0
9/30/2024 20:46	54504	ENOL_T2	0	0	0	0	0	0	-1.1	-1.07	1	1	0	600	600	0
9/30/2024 20:46	52004	LING_T2	2	2	0	6.2	6.5	0.3	0.14	0.16	0	0	0	0	0	0
9/30/2024 20:47	24701	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 20:47	50701	SMEC_T1	0	0	0	0	0	0	0.55	0.49	0	0	0	0	0	0
9/30/2024 20:47	67401	WAKE_T2	0	0	0	0	0	0	-1.02	-1.02	0	0	0	0	0	0
9/30/2024 20:47	46504	LOHA_T1	2	2	0	0.2	0.55	0.35	0	0	0	0	0	0	0	0
9/30/2024 20:47	10801	CHHI_T1	0	0	0	0	0	0	-1.32	-1.32	2	2	0	1500	1500	0
9/30/2024 20:47	24702	FLND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 20:47	57401	SPAN_T1	6	37	31	0.47	0.23	-0.24	0	0	0	0	0	0	0	0
9/30/2024 20:47	43801	SWIL_T1	2	2	0	3.35	3.4	0.05	0	0	0	0	0	0	0	0
9/30/2024 20:47	46501	LOHA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
9/30/2024 20:47	46506	LOHA_T1	4	4	0	3.28	3.83	0.55	0	0	0	0	0	0	0	0
9/30/2024 20:47	44301	BEAV_T2	2	1	-1	0.7	0.3	-0.4	0.12	0.1	1	1	0	600	600	0
9/30/2024 20:47	57403	SPAN_T1	72	148	76	0.31	0.43	0.12	0.05	0.06	0	0	0	0	0	0
9/30/2024 20:47	43802	SWIL_T1	0	0	0	0	0	0	-0.08	-0.1	1	1	0	600	600	0
9/30/2024 20:47	60102	COCA_T1	0	0	0	0	0	0	1.56	1.46	2	2	0	1200	1200	0
9/30/2024 20:47	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
9/30/2024 20:47	24902	WHHA_T1	0	0	0	0	0	0	0.76	0.77	0	0	0	0	0	0
9/30/2024 20:47	65702	RVIL_T2	0	0	0	0	0	0	-0.5	-0.54	0	0	0	0	0	0
9/30/2024 20:47	46004	BERW_T2	1	0	-1	4.6	0	-4.6	-0.06	0.11	0	0	0	0	0	0
9/30/2024 20:48	44801	EDAN_T2	74	133	59	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
9/30/2024 20:48	57401	SPAN_T1	6	37	31	0.47	0.23	-0.24	0	0	0	0	0	0	0	0
9/30/2024 20:48	52001	LING_T1	0	1	1	0	0	0	0.22	0.21	0	0	0	0	0	0
9/30/2024 20:48	60101	COCA_T1	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
9/30/2024 20:48	67503	WEWI_T2	1	1	0	8.4	8.8	0.4	-0.17	-0.21	0	0	0	0	0	0
9/30/2024 20:48	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/30/2024 20:48	67604	WARW_T1	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
9/30/2024 20:48	57403	SPAN_T1	72	148	76	0.31	0.43	0.12	0.05	0.06	0	0	0	0	0	0
9/30/2024 20:48	67605	WARW_T1	15	12	-3	0.56	0.33	-0.23	-1.18	-1.14	0	0	0	0	0	0
9/30/2024 20:48	67502	WEWI_T2	0	101	101	0	0.2	0.2	0	0	0	0	0	0	0	0
9/30/2024 20:48	44802	EDAN_T2	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
9/30/2024 20:49	67604	WARW_T1	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
9/30/2024 20:49	65702	RVIL_T2	0	0	0	0	0	0	-0.5	-0.54	0	0	0	0	0	0
9/30/2024 20:49	55002	NEWP_T1	6	6	0	0.43	0.73	0.3	0	0	0	0	0	0	0	0
9/30/2024 20:49	52202	DEVO_T2	0	0	0	0	0	0	0.62	0.58	0	0	0	0	0	0
9/30/2024 20:49	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
9/30/2024 20:49	67402	WAKE_T2	0	0	0	0	0	0	0.28	0.19	0	0	0	0	0	0
9/30/2024 20:49	55001	NEWP_T1	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
9/30/2024 20:49	67605	WARW_T1	15	12	-3	0.56	0.33	-0.23	0	0	0	0	0	0	0	0
9/30/2024 20:49	60101	COCA_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
9/30/2024 20:50	65702	RVIL_T2	0	0	0	0	0	0	-0.5	-0.54	0	0	0	0	0	0
9/30/2024 20:50	63804	HEMP_T1	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
9/30/2024 20:50	63801	HEMP_T1	0	0	0	0	0	0	-0.89	-0.87	1	1	0	900	900	0
9/30/2024 20:50	67201	TEHI_T1	0	0	0	0	0	0	0.2	0	1	1	0	900	900	0
9/30/2024 20:51	55002	NEWP_T1	6	6	0	0.43	0.73	0.3	-0.25	-0.25	0	0	0	0	0	0
9/30/2024 20:51	67604	WARW_T1	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
9/30/2024 20:51	55001	NEWP_T1	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
9/30/2024 20:51	67605	WARW_T1	15	12	-3	0.56	0.33	-0.23	0	0	0	0	0	0	0	0
9/30/2024 20:52	24901	WHHA_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
9/30/2024 20:52	54601	SUMM_T2	4	10	6	0.18	0.42	0.24	-1.81	-1.78	2	2	0	2100	2100	0
9/30/2024 20:52	21601	EYNO_T1	0	1	1	0	0	0	0.1	0.1	0	0	0	0	0	0
9/30/2024 20:54	24204	PROV_T3	13	14	1	0.54	0.51	-0.03	0	0	0	0	0	0	0	0
9/30/2024 20:54	24201	PROV_T3	89	106	17	0.2	0.21	0.01	-1.42	-1.42	1	1	0	1200	1200	0
9/30/2024 20:55	15601	NSTR_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
9/30/2024 20:55	15602	NSTR_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
9/30/2024 20:57	55001	NEWP_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
9/30/2024 20:57	55002	NEWP_T1	6	6	0	0.43	0.73	0.3	0	0	0	0	0	0	0	0
9/30/2024 21:04	65205	PRIN_T1	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
9/30/2024 21:12	55001	NEWP_T1	0	0	0	0	0	0	-0.32	-0.36	0	0	0	0	0	0
9/30/2024 21:12	55002	NEWP_T1	6	6	0	0.58	0.95	0.37	0	0	0	0	0	0	0	0
9/30/2024 21:30	15202	SFAR_T1	0	0	0	0	0	0	-0.17	-0.2	1	1	0	1200	1200	0
9/30/2024 21:37	63305	GREE_T1	0	3	3	0	0.1	0.1	-1.18	-1.22	0	0	0	0	0	0
9/30/2024 21:41	67402	WAKE_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
9/30/2024 22:08	66502	SMAN_T2	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
9/30/2024 22:11	60101	COCA_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
9/30/2024 22:16	67605	WARW_T1	13	20	7	0.42	0.58	0.16	0	0	0	0	0	0	0	0
9/30/2024 22:16	67603	WARW_T1	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
9/30/2024 22:28	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2024 22:38	64201	KINZ_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
9/30/2024 22:38	64204	KINZ_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
9/30/2024 22:38	64202	KINZ_T1	3	3	0	0.53	0.6	0.07	0.69	0.72	0	0	0	0	0	0
10/1/2024 3:21	61102	BERK_T5	1136	1137	1	3.71	3.79	0.08	0	0	0	0	0	0	0	0
10/1/2024 3:21	61103	BERK_T5	1097	1100	3	0.76	0.85	0.09	-0.01	-0.01	0	0	0	0	0	0
10/1/2024 3:21	61101	BERK_T5	225	226	1	0.8	0.87	0.07	0	0	0	0	0	0	0	0
10/1/2024 6:39	67505	WEWI_T1	0	0	0	0	0	0	-0.32	-0.36	1	1	0	900	900	0
10/1/2024 8:08	22003	BOHE_T1	244	293	49	0.54	0.84	0.3	0	0	0	0	0	0	0	0
10/1/2024 8:08	22001	BOHE_T1	0	94	94	0	0.14	0.14	0	0	0	0	0	0	0	0
10/1/2024 8:08	22002	BOHE_T1	0	1	1	0	0.1	0.1	0.25	0.25	0	0	0	0	0	0
10/1/2024 8:32	13303	ORVI_T1	0	0	0	0	0	0	-0.34	-0.29	0	0	0	0	0	0
10/1/2024 8:32	15603	NSTR_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
10/1/2024 8:33	13303	ORVI_T1	0	0	0	0	0	0	-0.34	-0.29	0	0	0	0	0	0
10/1/2024 8:34	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 8:43	21501	CEAV_T2	0	0	0	0	0	0	1.6	1.55	0	0	0	0	0	0
10/1/2024 8:52	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.39	0	0	0	0	0	0
10/1/2024 8:52	46506	LOHA_T1	4	4	0	4.18	4.43	0.25	0	0	0	0	0	0	0	0
10/1/2024 8:52	46504	LOHA_T1	1	2	1	0.3	0.8	0.5	0	0	0	0	0	0	0	0
10/1/2024 8:52	46501	LOHA_T1	0	1	1	0	0	0	0.09	0.13	1	1	0	1200	1200	0
10/1/2024 8:52	15703	TANN_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
10/1/2024 8:53	22002	BOHE_T1	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
10/1/2024 8:53	22003	BOHE_T1	276	295	19	0.86	0.75	-0.11	-0.2	-0.21	0	0	0	0	0	0
10/1/2024 8:53	22001	BOHE_T1	42	46	4	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
10/1/2024 8:58	10102	ALLE_T2	1	1	0	6.9	6.4	-0.5	0	0	0	0	0	0	0	0
10/1/2024 8:58	10206	ALLE_T2	1	1	0	2.1	1.6	-0.5	0	0	0	0	0	0	0	0
10/1/2024 8:58	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 9:03	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 9:05	65701	RVIL_T1	0	0	0	0	0	0	19.55	19.59	0	0	0	0	0	0
10/1/2024 9:05	65702	RVIL_T2	0	0	0	0	0	0	39.86	39.86	0	0	0	0	0	0
10/1/2024 9:06	65702	RVIL_T2	0	0	0	0	0	0	19.93	19.93	0	0	0	0	0	0
10/1/2024 9:09	65702	RVIL_T2	0	0	0	0	0	0	39.86	39.9	0	0	0	0	0	0
10/1/2024 9:13	21601	EYNO_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
10/1/2024 9:13	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/1/2024 9:13	11604	CEAL_T1	4	4	0	0.88	0	-0.88	0	0	0	0	0	0	0	0
10/1/2024 9:15	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 9:17	64202	KINZ_T1	3	2	-1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/1/2024 9:17	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
10/1/2024 9:17	64201	KINZ_T1	0	0	0	0	0	0	-0.83	-0.82	4	4	0	2100	2100	0
10/1/2024 9:19	64202	KINZ_T1	3	2	-1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/1/2024 9:19	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
10/1/2024 9:19	64201	KINZ_T1	0	0	0	0	0	0	-0.83	-0.82	4	4	0	2100	2100	0
10/1/2024 9:22	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
10/1/2024 9:22	46501	LOHA_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
10/1/2024 9:22	46506	LOHA_T1	3	3	0	5.67	5.93	0.26	0	0	0	0	0	0	0	0
10/1/2024 9:22	46504	LOHA_T1	2	2	0	0.8	1.05	0.25	0	0	0	0	0	0	0	0
10/1/2024 9:23	65702	RVIL_T2	0	0	0	0	0	0	19.95	19.95	0	0	0	0	0	0
10/1/2024 9:23	46502	LOHA_T1	0	0	0	0	0	0	-1.31	-1.35	1	1	0	1200	1200	0
10/1/2024 9:23	46501	LOHA_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
10/1/2024 9:23	46504	LOHA_T1	2	2	0	0.8	1.05	0.25	0	0	0	0	0	0	0	0
10/1/2024 9:23	46506	LOHA_T1	3	3	0	5.67	5.93	0.26	0	0	0	0	0	0	0	0
10/1/2024 9:24	65702	RVIL_T2	0	0	0	0	0	0	39.9	39.9	0	0	0	0	0	0
10/1/2024 9:26	46001	BERW_T1	0	0	0	0	0	0	0.88	0.74	0	0	0	0	0	0
10/1/2024 9:27	46001	BERW_T1	0	0	0	0	0	0	0.88	0.74	0	0	0	0	0	0
10/1/2024 9:30	14603	SWHI_T1	0	0	0	0	0	0	-0.91	-0.97	1	1	0	600	600	0
10/1/2024 9:34	64702	LITI_T2	0	0	0	0	0	0	-0.44	-0.55	0	0	0	0	0	0
10/1/2024 9:36	12302	LANA_T2	0	0	0	0	0	0	-1.7	-1.7	2	2	0	1500	1500	0
10/1/2024 9:40	67503	WEWI_T2	1	1	0	9.2	9.1	-0.1	-0.24	-0.24	0	0	0	0	0	0
10/1/2024 9:48	13704	SCHN_T2	1	1	0	0.1	0.1	0	-0.32	-0.33	0	0	0	0	0	0
10/1/2024 9:48	13701	SCHN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/1/2024 9:53	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 9:53	13701	SCHN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/1/2024 9:53	13704	SCHN_T2	1	1	0	0.1	0.1	0	-0.33	-0.32	0	0	0	0	0	0
10/1/2024 9:55	44301	BEAV_T2	1	1	0	1.5	0.5	-1	0	0	0	0	0	0	0	0
10/1/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-0.97	0	0	0	0	0	0
10/1/2024 10:00	17002	RIRO_T2	2	2	0	0.1	0.15	0.05	0.72	0.79	0	0	0	0	0	0
10/1/2024 10:00	21601	EYNO_T1	0	0	0	0	0	0	0.35	0.4	0	0	0	0	0	0
10/1/2024 10:00	59003	MIFF_T1	1	1	0	0.3	0.3	0	-1.16	-0.98	0	0	0	0	0	0
10/1/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
10/1/2024 10:00	59002	MIFF_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
10/1/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
10/1/2024 10:00	67503	WEWI_T2	1	1	0	9.1	9	-0.1	-0.24	-0.23	0	0	0	0	0	0
10/1/2024 10:07	45902	AUBU_T1	0	1	1	0	0.3	0.3	-0.52	-0.54	1	1	0	600	600	0
10/1/2024 10:07	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 10:09	46504	LOHA_T1	2	2	0	0.85	0.45	-0.4	0	0	0	0	0	0	0	0
10/1/2024 10:09	67503	WEWI_T2	1	1	0	9.1	9	-0.1	0	0	0	0	0	0	0	0
10/1/2024 10:09	67502	WEWI_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
10/1/2024 10:09	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 10:09	46506	LOHA_T1	3	3	0	5.73	5.57	-0.16	0	0	0	0	0	0	0	0
10/1/2024 10:09	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
10/1/2024 10:09	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 10:10	67502	WEWI_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
10/1/2024 10:10	67503	WEWI_T2	1	1	0	9.1	9	-0.1	0	0	0	0	0	0	0	0
10/1/2024 10:11	46504	LOHA_T1	2	2	0	0.85	0.45	-0.4	0	0	0	0	0	0	0	0
10/1/2024 10:11	46502	LOHA_T1	0	0	0	0	0	0	-1.28	-1.31	1	1	0	1200	1200	0
10/1/2024 10:11	67503	WEWI_T2	1	1	0	9.1	9	-0.1	-0.23	-0.25	0	0	0	0	0	0
10/1/2024 10:11	46506	LOHA_T1	3	3	0	5.73	5.57	-0.16	0	0	0	0	0	0	0	0
10/1/2024 10:11	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
10/1/2024 10:11	45902	AUBU_T1	0	1	1	0	0.3	0.3	-0.52	-0.54	1	1	0	600	600	0
10/1/2024 10:11	46501	LOHA_T1	0	1	1	0	0	0	0.14	0.2	1	1	0	1200	1200	0
10/1/2024 10:12	23901	EFMO_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
10/1/2024 10:12	44502	HAMI_T2	1	1	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
10/1/2024 10:12	44505	HAMI_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
10/1/2024 10:12	64602	LEOL_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
10/1/2024 10:12	21501	CEAV_T2	0	0	0	0	0	0	0.66	0.5	1	1	0	1200	1200	0
10/1/2024 10:12	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 10:14	25402	LAHA_T2	0	0	0	0	0	0	-0.73	-0.68	0	0	0	0	0	0
10/1/2024 10:15	44502	HAMI_T2	1	1	0	3.2	2.9	-0.3	0	0	0	0	0	0	0	0
10/1/2024 10:15	44503	HAMI_T2	0	0	0	0	0	0	-1.26	-1.25	1	1	0	1200	1200	0
10/1/2024 10:16	44505	HAMI_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
10/1/2024 10:16	44502	HAMI_T2	1	1	0	3.2	2.9	-0.3	0	0	0	0	0	0	0	0
10/1/2024 10:17	44502	HAMI_T2	1	1	0	3.2	2.9	-0.3	0	0	0	0	0	0	0	0
10/1/2024 10:17	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 10:17	65503	MOJO_T2	0	0	0	0	0	0	-0.86	-0.92	1	1	0	900	900	0
10/1/2024 10:19	65503	MOJO_T2	0	0	0	0	0	0	-0.86	-0.92	1	1	0	900	900	0
10/1/2024 10:22	50501	MECH_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
10/1/2024 10:22	57403	SPAN_T1	88	42	-46	0.24	0.25	0.01	-0.01	-0.01	0	0	0	0	0	0
10/1/2024 10:22	57401	SPAN_T1	19	6	-13	0.25	0.45	0.2	0	0	0	0	0	0	0	0
10/1/2024 10:22	50502	MECH_T1	1	1	0	2.1	2.2	0.1	1585.13	1585.01	1	1	0	900	900	0
10/1/2024 10:22	47401	PENS_T1	0	0	0	0	0	0	-0.73	-0.8	0	0	0	0	0	0
10/1/2024 10:22	47403	PENS_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
10/1/2024 10:23	67503	WEWI_T2	1	1	0	9	9.1	0.1	-0.5	-0.48	0	0	0	0	0	0
10/1/2024 10:23	52502	PROG_T2	0	0	0	0	0	0	-0.7	-0.7	1	1	0	900	900	0
10/1/2024 10:23	14801	TREI_T2	1	1	0	0.2	0	-0.2	0.34	0.31	0	0	0	0	0	0
10/1/2024 10:25	55002	NEWP_T1	6	6	0	1.13	1.35	0.22	-0.23	-0.23	0	0	0	0	0	0
10/1/2024 10:25	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/1/2024 10:26	10801	CHHI_T1	6	5	-1	0.4	0.26	-0.14	-1.28	-1.17	2	2	0	1500	1500	0
10/1/2024 10:26	22001	BOHE_T1	0	0	0	0	0	0	0.19	0.15	0	0	0	0	0	0
10/1/2024 10:26	22003	BOHE_T1	242	244	2	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
10/1/2024 10:27	55002	NEWP_T1	6	6	0	1.13	1.35	0.22	-0.23	-0.23	0	0	0	0	0	0
10/1/2024 10:27	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/1/2024 10:28	60801	BUCK_T1	0	0	0	0	0	0	0.06	0.09	0	0	0	0	0	0
10/1/2024 10:28	60803	BUCK_T1	5	13	8	0.16	0.25	0.09	0	0	0	0	0	0	0	0
10/1/2024 10:37	54601	SUMM_T2	8	9	1	0.31	0.34	0.03	-1.83	-1.83	2	2	0	2100	2100	0
10/1/2024 10:38	55002	NEWP_T1	6	6	0	1.35	1.28	-0.07	0	0	0	0	0	0	0	0
10/1/2024 10:38	43304	WATS_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
10/1/2024 10:38	42701	AUGU_T1	1	1	0	1.2	1.3	0.1	0	0	2	2	0	1800	1800	0
10/1/2024 10:38	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/1/2024 10:38	55001	NEWP_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
10/1/2024 10:38	43301	WATS_T2	78	78	0	4.12	4.26	0.14	0	0	0	0	0	0	0	0
10/1/2024 10:39	42701	AUGU_T1	1	1	0	1.2	1.3	0.1	0	0	2	2	0	1800	1800	0
10/1/2024 10:39	67505	WEWI_T1	0	0	0	0	0	0	-0.13	-0.17	1	1	0	900	900	0
10/1/2024 10:41	44801	EDAN_T2	166	164	-2	0.54	0.54	0	-1.58	-1.6	0	0	0	0	0	0
10/1/2024 10:42	53502	EVIL_T2	0	0	0	0	0	0	0.88	0.92	1	1	0	600	600	0
10/1/2024 10:42	53501	EVIL_T2	2	2	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
10/1/2024 10:43	63305	GREE_T1	0	0	0	0	0	0	-1.96	-1.92	1	1	0	900	900	0
10/1/2024 10:43	45902	AUBU_T1	1	1	0	0.1	0.2	0.1	-0.47	-0.51	1	1	0	600	600	0
10/1/2024 10:44	61801	EELI_T2	0	0	0	0	0	0	-0.77	-0.72	1	1	0	600	600	0
10/1/2024 10:44	53502	EVIL_T2	0	0	0	0	0	0	0.88	0.92	1	1	0	600	600	0
10/1/2024 10:44	53501	EVIL_T2	2	2	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
10/1/2024 10:44	63305	GREE_T1	0	0	0	0	0	0	-1.96	-1.92	1	1	0	900	900	0
10/1/2024 10:45	45801	HEGI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 10:49	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/1/2024 10:49	21206	ECAR_T2	1	1	0	6.6	6.8	0.2	1.5	1.58	0	0	0	0	0	0
10/1/2024 10:52	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
10/1/2024 10:52	14801	TREI_T2	0	3	3	0	0.43	0.43	0.35	0.35	0	0	0	0	0	0
10/1/2024 10:52	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
10/1/2024 10:52	46001	BERW_T2	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
10/1/2024 10:53	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
10/1/2024 10:53	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
10/1/2024 10:53	59101	WALK_T2	0	0	0	0	0	0	1.63	1.37	0	0	0	0	0	0
10/1/2024 10:54	45502	DERR_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/1/2024 10:54	45501	DERR_T2	0	0	0	0	0	0	0.73	0.68	2	2	0	1800	1800	0
10/1/2024 10:55	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
10/1/2024 10:55	43402	BENT_T1	0	0	0	0	0	0	-0.39	-0.4	1	1	0	600	600	0
10/1/2024 10:55	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
10/1/2024 10:56	43402	BENT_T1	0	0	0	0	0	0	-0.39	-0.4	1	1	0	600	600	0
10/1/2024 10:56	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 10:57	45502	DERR_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/1/2024 10:57	45501	DERR_T2	0	0	0	0	0	0	0.73	0.68	2	2	0	1800	1800	0
10/1/2024 11:02	50103	HARR_T3	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
10/1/2024 11:02	50107	HARR_T3	1	1	0	6.3	6.6	0.3	0	0	0	0	0	0	0	0
10/1/2024 11:02	50105	HARR_T3	6	6	0	5.4	5.45	0.05	0	0	0	0	0	0	0	0
10/1/2024 11:05	50105	HARR_T3	6	6	0	5.4	5.45	0.05	0	0	0	0	0	0	0	0
10/1/2024 11:05	50107	HARR_T3	1	1	0	6.3	6.6	0.3	0	0	0	0	0	0	0	0
10/1/2024 11:05	50103	HARR_T3	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
10/1/2024 11:07	16302	ALPA_T2	0	0	0	0	0	0	0.9	0.87	0	0	0	0	0	0
10/1/2024 11:08	16302	ALPA_T2	0	0	0	0	0	0	0.9	0.87	0	0	0	0	0	0
10/1/2024 11:09	16302	ALPA_T2	0	0	0	0	0	0	0.9	0.87	0	0	0	0	0	0
10/1/2024 11:10	55001	NEWP_T1	0	1	1	0	0.2	0.2	-0.17	-0.19	0	0	0	0	0	0
10/1/2024 11:10	55002	NEWP_T1	5	6	1	1.4	1.42	0.02	0	0	0	0	0	0	0	0
10/1/2024 11:11	46001	BERW_T1	0	0	0	0	0	0	0.79	0.62	0	0	0	0	0	0
10/1/2024 11:12	16302	ALPA_T2	0	0	0	0	0	0	1.79	1.74	0	0	0	0	0	0
10/1/2024 11:12	46001	BERW_T1	0	0	0	0	0	0	0.79	0.62	0	0	0	0	0	0
10/1/2024 11:14	20201	JERM_T1	0	0	0	0	0	0	-0.16	-0.25	2	2	0	2400	2400	0
10/1/2024 11:19	40602	PIGR_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
10/1/2024 11:19	40601	PIGR_T1	0	0	0	0	0	0	-0.44	-0.53	0	0	0	0	0	0
10/1/2024 11:20	40601	PIGR_T1	0	0	0	0	0	0	-0.44	-0.53	0	0	0	0	0	0
10/1/2024 11:20	40602	PIGR_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
10/1/2024 11:21	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 11:21	40602	PIGR_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
10/1/2024 11:34	43801	SWIL_T1	1	2	1	5.5	5.5	0	0	0	0	0	0	0	0	0
10/1/2024 11:34	16702	MACK_T1	2	0	-2	0.2	0	-0.2	-1.03	-1.03	0	0	0	0	0	0
10/1/2024 11:34	43802	SWIL_T1	0	0	0	0	0	0	-0.15	-0.16	1	1	0	600	600	0
10/1/2024 11:45	63501	HEID_TBK1-2	1	1	0	1.4	1.4	0	0.08	0.02	1	1	0	900	900	0
10/1/2024 11:47	50103	HARR_T3	2	2	0	0.1	0.65	0.55	0	0	0	0	0	0	0	0
10/1/2024 11:47	50107	HARR_T3	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
10/1/2024 11:47	50105	HARR_T3	6	6	0	5.45	5.47	0.02	0	0	0	0	0	0	0	0
10/1/2024 11:48	65205	PRIN_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/1/2024 11:48	65202	PRIN_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 11:49	50107	HARR_T3	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
10/1/2024 11:49	50105	HARR_T3	6	6	0	5.45	5.47	0.02	0	0	0	0	0	0	0	0
10/1/2024 11:49	50103	HARR_T3	2	2	0	0.1	0.65	0.55	0	0	0	0	0	0	0	0
10/1/2024 11:50	67002	STHI_T2	0	0	0	0	0	0	1.54	1.56	0	0	0	0	0	0
10/1/2024 11:50	67001	STHI_T2	1	1	0	0.3	0.3	0	0.08	0.07	0	0	0	0	0	0
10/1/2024 11:50	65802	RTWN_T2	0	0	0	0	0	0	-0.19	-0.18	0	0	0	0	0	0
10/1/2024 11:53	67201	TEHI_T1	0	0	0	0	0	0	0.95	0.91	1	1	0	900	900	0
10/1/2024 11:53	67001	STHI_T2	1	1	0	0.3	0.3	0	0.14	0.14	0	0	0	0	0	0
10/1/2024 11:54	67001	STHI_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/1/2024 11:54	67002	STHI_T2	0	0	0	0	0	0	0.78	0.8	0	0	0	0	0	0
10/1/2024 11:55	67002	STHI_T2	0	0	0	0	0	0	0.78	0.8	0	0	0	0	0	0
10/1/2024 11:55	67001	STHI_T2	1	1	0	0.3	0.3	0	0.07	0.07	0	0	0	0	0	0
10/1/2024 11:57	67503	WEWI_T2	1	1	0	9.3	9.2	-0.1	-0.24	-0.23	0	0	0	0	0	0
10/1/2024 12:05	50107	HARR_T3	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
10/1/2024 12:05	50103	HARR_T3	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
10/1/2024 12:05	50105	HARR_T3	6	6	0	5.48	5.48	0	0	0	0	0	0	0	0	0
10/1/2024 12:06	65207	PRIN_T4	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/1/2024 12:06	65206	PRIN_T4	1	2	1	3.3	0	-3.3	0	0	0	0	0	0	0	0
10/1/2024 12:06	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 12:07	16301	ALPA_T1	0	1	1	0	0	0	0.14	0.1	0	0	0	0	0	0
10/1/2024 12:08	42701	AUGU_T1	1	1	0	0.8	1.2	0.4	0	0	2	2	0	1800	1800	0
10/1/2024 12:09	16301	ALPA_T1	0	1	1	0	0	0	0.14	0.1	0	0	0	0	0	0
10/1/2024 12:09	16103	BING_T2	0	0	0	0	0	0	-0.8	-0.8	2	2	0	1500	1500	0
10/1/2024 12:10	42701	AUGU_T1	1	1	0	0.8	1.2	0.4	0	0	2	2	0	1800	1800	0
10/1/2024 12:10	16301	ALPA_T1	0	1	1	0	0	0	0.28	0.21	0	0	0	0	0	0
10/1/2024 12:20	24201	PROV_T3	5	673	668	1.38	0.29	-1.09	-1.43	-1.4	1	1	0	1200	1200	0
10/1/2024 12:20	24205	PROV_T3	0	15	15	0	0.15	0.15	0	0	0	0	0	0	0	0
10/1/2024 12:20	24204	PROV_T3	1	22	21	6	0.37	-5.63	0	0	0	0	0	0	0	0
10/1/2024 12:21	50105	HARR_T3	6	6	0	5.48	5.55	0.07	0	0	0	0	0	0	0	0
10/1/2024 12:21	24202	PROV_T4	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/1/2024 12:21	50103	HARR_T3	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
10/1/2024 12:21	50107	HARR_T3	1	1	0	6.3	6.6	0.3	0	0	0	0	0	0	0	0
10/1/2024 12:21	24206	PROV_T4	1	1	0	4.1	1.6	-2.5	0	0	0	0	0	0	0	0
10/1/2024 12:22	14801	TREI_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
10/1/2024 12:24	21704	SUBU_T1	0	0	0	0	0	0	-2.17	-2.2	2	2	0	2400	2400	0
10/1/2024 12:24	21701	SUBU_T1	1	1	0	6.1	5.3	-0.8	0	0	0	0	0	0	0	0
10/1/2024 12:28	23403	HONE_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/1/2024 12:30	40701	FFLD_T1	10	0	-10	0.11	0	-0.11	0	0	0	0	0	0	0	0
10/1/2024 12:30	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 12:35	21206	ECAR_T2	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
10/1/2024 12:35	21204	ECAR_T2	1	1	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
10/1/2024 12:35	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 12:36	66502	SMAN_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
10/1/2024 12:36	24205	PROV_T3	15	0	-15	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/1/2024 12:36	24204	PROV_T3	22	1	-21	0.37	6	5.63	0	0	0	0	0	0	0	0
10/1/2024 12:36	24201	PROV_T3	673	5	-668	0.29	1.4	1.11	-1.38	-1.39	1	1	0	1200	1200	0
10/1/2024 12:37	66505	SMAN_T2	0	0	0	0	0	0	0.75	0.79	1	1	0	900	900	0
10/1/2024 12:37	66504	SMAN_T2	0	0	0	0	0	0	-0.31	-0.28	0	0	0	0	0	0
10/1/2024 12:38	46001	BERW_T1	0	0	0	0	0	0	0.08	0.25	0	0	0	0	0	0
10/1/2024 12:39	42701	AUGU_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
10/1/2024 12:39	43801	SWIL_T1	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
10/1/2024 12:39	67603	WARW_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
10/1/2024 12:39	44601	SALE_T2	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/1/2024 12:39	67605	WARW_T1	13	14	1	0.47	0.37	-0.1	0	0	0	0	0	0	0	0
10/1/2024 12:39	43802	SWIL_T1	0	0	0	0	0	0	-0.14	-0.14	1	1	0	600	600	0
10/1/2024 12:40	44601	SALE_T2	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/1/2024 12:42	46004	BERW_T2	1	0	-1	0.2	0	-0.2	0.18	0.22	0	0	0	0	0	0
10/1/2024 12:43	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 12:43	50624	CCTY_T2	2	2	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
10/1/2024 12:43	50623	CCTY_T2	5	5	0	5.76	5.94	0.18	0	0	0	0	0	0	0	0
10/1/2024 12:43	50625	CCTY_T2	4	5	1	3.35	2.68	-0.67	0	0	0	0	0	0	0	0
10/1/2024 12:59	63302	GREE_T1	0	0	0	0	0	0	0.81	0.78	0	0	0	0	0	0
10/1/2024 12:59	49803	UNIV_T1	1	1	0	5.6	4.7	-0.9	-0.99	-2.27	0	0	0	0	0	0
10/1/2024 13:02	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 13:02	21206	ECAR_T2	1	1	0	6.9	7	0.1	1.61	1.63	0	0	0	0	0	0
10/1/2024 13:18	58401	MORO_T1	0	0	0	0	0	0	-1.02	-0.97	1	1	0	600	600	0
10/1/2024 13:20	58402	MORO_T1	0	0	0	0	0	0	-0.14	-0.11	2	2	0	1500	1500	0
10/1/2024 13:21	58402	MORO_T1	0	0	0	0	0	0	-0.14	-0.11	2	2	0	1500	1500	0
10/1/2024 13:21	58401	MORO_T1	0	0	0	0	0	0	-1.02	-0.97	1	1	0	600	600	0
10/1/2024 13:24	16101	BING_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
10/1/2024 13:25	44301	BEAV_T2	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
10/1/2024 13:33	66502	MOJO_T2	0	0	0	0	0	0	-0.09	-0.03	0	0	0	0	0	0
10/1/2024 13:34	65502	MOJO_T2	0	0	0	0	0	0	-0.09	-0.03	0	0	0	0	0	0
10/1/2024 13:35	65802	RTWN_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
10/1/2024 13:43	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	-1.35	-1.35	1	1	0	600	600	0
10/1/2024 13:43	54502	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/1/2024 13:49	46002	BERW_T2	0	0	0	0	0	0	-1.21	-1.2	1	1	0	900	900	0
10/1/2024 13:49	46004	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/1/2024 13:50	40602	PIGR_T1	1	1	0	1.5	1.3	-0.2	-1.09	-1.13	2	2	0	1200	1200	0
10/1/2024 13:51	46002	BERW_T2	0	0	0	0	0	0	-1.2	-1.27	1	1	0	900	900	0
10/1/2024 13:51	46004	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/1/2024 13:51	50103	HARR_T3	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
10/1/2024 13:51	50105	HARR_T3	7	6	-1	4.96	5.07	0.11	0	0	0	0	0	0	0	0
10/1/2024 13:51	50107	HARR_T3	1	1	0	6.8	7.3	0.5	0	0	0	0	0	0	0	0
10/1/2024 13:53	40602	PIGR_T1	1	1	0	1.5	1.3	-0.2	-0.56	-0.53	1	1	0	600	600	0
10/1/2024 13:56	45502	DERR_T2	1	1	0	0.3	0	-0.3	0.31	0.27	1	1	0	300	300	0
10/1/2024 13:56	67401	WAKE_T2	0	0	0	0	0	0	-0.91	-0.96	0	0	0	0	0	0
10/1/2024 13:57	24102	EHAZ_T1	0	1	1	0	0.1	0.1	0.04	0.01	0	0	0	0	0	0
10/1/2024 13:57	24105	EHAZ_T1	4	4	0	6.48	6.03	-0.45	0	0	0	0	0	0	0	0
10/1/2024 14:00	63501	HEID_TBK1-2	1	8	7	1	0.21	-0.79	0.2	0.15	1	1	0	900	900	0
10/1/2024 14:01	63501	HEID_TBK1-2	1	8	7	1	0.21	-0.79	0.2	0.15	1	1	0	900	900	0
10/1/2024 14:02	46802	HEPB_T1	1	1	0	1	1.2	0.2	-0.27	-0.27	0	0	0	0	0	0
10/1/2024 14:05	65207	PRIN_T4	1	42	41	0.7	0.17	-0.53	0	0	2	2	0	1800	1800	0
10/1/2024 14:05	65206	PRIN_T4	2	10	8	1.8	0.1	-1.7	0	0	0	0	0	0	0	0
10/1/2024 14:08	42201	SHEN_T2	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
10/1/2024 14:17	21504	CEAV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 14:31	22002	BOHE_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
10/1/2024 14:31	22003	BOHE_T1	249	255	6	0.57	0.65	0.08	0	0	0	0	0	0	0	0
10/1/2024 14:31	22001	BOHE_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/1/2024 14:39	42701	AUGU_T1	1	1	0	0.8	0.9	0.1	0	0	2	1	-1	1800	600	-1200
10/1/2024 14:41	42701	AUGU_T1	1	1	0	0.8	0.9	0.1	0	0	2	1	-1	1800	600	-1200
10/1/2024 14:47	65003	NEFF_T2	1	6	5	0.1	0.17	0.07	0	0	0	0	0	0	0	0
10/1/2024 14:47	65004	NEFF_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
10/1/2024 14:48	65001	NEFF_T2	0	0	0	0	0	0	-0.45	-0.44	1	1	0	1200	1200	0
10/1/2024 14:48	50103	HARR_T3	2	2	0	0.65	1	0.35	0	0	0	0	0	0	0	0
10/1/2024 14:48	50201	HARR_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/1/2024 14:48	50102	HARR_T3	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/1/2024 14:48	50107	HARR_T3	1	1	0	7	7	0	0	0	0	0	0	0	0	0
10/1/2024 14:48	65003	NEFF_T2	1	6	5	0.1	0.17	0.07	0	0	0	0	0	0	0	0
10/1/2024 14:48	50105	HARR_T3	7	6	-1	4.83	5.18	0.35	0	0	0	0	0	0	0	0
10/1/2024 14:49	64903	MILL_T2	0	0	0	0	0	0	0.2	0.26	0	0	0	0	0	0
10/1/2024 14:50	64903	MILL_T2	0	0	0	0	0	0	0.2	0.26	0	0	0	0	0	0
10/1/2024 15:02	50103	HARR_T3	1	2	1	0.2	1.05	0.85	0	0	0	0	0	0	0	0
10/1/2024 15:02	50105	HARR_T3	6	6	0	5.23	5.17	-0.06	0	0	0	0	0	0	0	0
10/1/2024 15:02	50201	HARR_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/1/2024 15:02	50107	HARR_T3	1	1	0	7	6.6	-0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/1/2024 15:02	50102	HARR_T3	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/1/2024 15:06	64802	MONE_T2	2	0	-2	0.45	0	-0.45	0.22	0.21	0	0	0	0	0	0
10/1/2024 15:06	64801	MONE_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
10/1/2024 15:07	45302	WBER_T2	0	0	0	0	0	0	0.93	0.95	0	0	0	0	0	0
10/1/2024 15:07	45303	WBER_T2	1	1	0	9.8	9.6	-0.2	0	0	0	0	0	0	0	0
10/1/2024 15:14	10903	COOP_T2	1	102	101	0.3	0.33	0.03	-0.24	-0.25	1	1	0	600	600	0
10/1/2024 15:15	28701	HAML_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 15:15	50701	SMEC_T1	1	1	0	9.7	3.5	-6.2	-0.54	-0.58	1	1	0	900	900	0
10/1/2024 15:15	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/1/2024 15:15	28703	HAML_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/1/2024 15:18	50105	HARR_T3	6	7	1	5.25	5.07	-0.18	0	0	0	0	0	0	0	0
10/1/2024 15:18	50103	HARR_T3	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
10/1/2024 15:18	50102	HARR_T3	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/1/2024 15:18	50107	HARR_T3	1	1	0	7	6.3	-0.7	0	0	0	0	0	0	0	0
10/1/2024 15:18	50201	HARR_T3	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/1/2024 15:32	40902	JESH_T1	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
10/1/2024 15:32	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 15:34	65003	NEFF_T2	3	6	3	0.13	0.27	0.14	-1.35	-1.45	2	2	0	1800	1800	0
10/1/2024 15:35	67106	SPRI_T2	0	0	0	0	0	0	-1.79	-1.8	2	2	0	1500	1500	0
10/1/2024 15:36	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 15:37	67106	SPRI_T2	0	0	0	0	0	0	-1.8	-1.79	2	2	0	1500	1500	0
10/1/2024 15:38	64704	LITI_T1	0	0	0	0	0	0	0.27	0.64	1	1	0	600	600	0
10/1/2024 15:38	66502	SMAN_T2	0	0	0	0	0	0	0.59	0.27	0	0	0	0	0	0
10/1/2024 15:39	67201	TEHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/1/2024 15:39	67203	TEHI_T1	0	0	0	0	0	0	2.53	2.45	2	2	0	1500	1500	0
10/1/2024 15:39	66502	SMAN_T2	0	0	0	0	0	0	0.59	0.27	0	0	0	0	0	0
10/1/2024 15:40	66502	SMAN_T2	0	0	0	0	0	0	0.29	0.14	0	0	0	0	0	0
10/1/2024 15:41	66502	SMAN_T2	0	0	0	0	0	0	0.29	0.14	0	0	0	0	0	0
10/1/2024 15:41	60102	COCA_T1	0	0	0	0	0	0	0.52	0.29	4	4	0	2400	2400	0
10/1/2024 15:44	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/1/2024 15:44	54506	ENOL_T2	0	0	0	0	0	0	0.26	0.26	1	1	0	600	600	0
10/1/2024 15:44	54502	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/1/2024 15:46	23403	HONE_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
10/1/2024 15:46	64704	LITI_T1	0	0	0	0	0	0	0.27	0.64	1	1	0	600	600	0
10/1/2024 15:47	59002	MIFF_T1	5	5	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
10/1/2024 15:47	59003	MIFF_T1	1	0	-1	0.2	0	-0.2	0.57	0.61	0	0	0	0	0	0
10/1/2024 15:50	64903	MILL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/1/2024 15:50	64902	MILL_T2	0	0	0	0	0	0	-1.02	-1.18	2	2	0	1800	1800	0
10/1/2024 15:55	60101	COCA_T1	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
10/1/2024 15:56	67402	WAKE_T2	0	0	0	0	0	0	-0.35	-0.34	1	1	0	600	600	0
10/1/2024 15:56	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/1/2024 15:58	60101	COCA_T1	0	0	0	0	0	0	0.64	0.68	0	0	0	0	0	0
10/1/2024 15:59	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 15:59	60101	COCA_T1	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
10/1/2024 16:00	23202	HIRU_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
10/1/2024 16:01	22701	MINO_T1	0	0	0	0	0	0	-0.95	-0.96	1	1	0	600	600	0
10/1/2024 16:02	23203	HIRU_T2	0	0	0	0	0	0	0.27	0.12	0	0	0	0	0	0
10/1/2024 16:03	23203	HIRU_T2	0	0	0	0	0	0	0.13	0.06	0	0	0	0	0	0
10/1/2024 16:09	67402	WAKE_T2	0	0	0	0	0	0	-0.34	-0.37	1	1	0	600	600	0
10/1/2024 16:09	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/1/2024 16:11	64704	LITI_T1	0	0	0	0	0	0	0.51	0.5	1	1	0	600	600	0
10/1/2024 16:12	10602	BLGL_T2	0	1	1	0	0.1	0.1	0.15	0.06	0	0	0	0	0	0
10/1/2024 16:14	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
10/1/2024 16:14	64201	KINZ_T1	0	0	0	0	0	0	-0.2	-0.23	3	3	0	1500	1500	0
10/1/2024 16:14	64202	KINZ_T1	1	3	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0
10/1/2024 16:17	64204	KINZ_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
10/1/2024 16:17	64201	KINZ_T1	0	0	0	0	0	0	-0.2	-0.23	3	3	0	1500	1500	0
10/1/2024 16:17	64202	KINZ_T1	2	3	1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
10/1/2024 16:18	65002	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/1/2024 16:18	65003	NEFF_T2	108	0	-108	0.18	0	-0.18	0	0	0	0	0	0	0	0
10/1/2024 16:18	65001	NEFF_T2	32	0	-32	0.14	0	-0.14	-0.66	-0.56	1	1	0	1200	1200	0
10/1/2024 16:20	64902	MILL_T2	0	0	0	0	0	0	-0.57	-0.61	1	1	0	900	900	0
10/1/2024 16:20	64903	MILL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/1/2024 16:30	40701	FFLD_T1	26	32	6	0.47	0.56	0.09	0	0	0	0	0	0	0	0
10/1/2024 16:30	12206	FOGE_T2	0	0	0	0	0	0	-2.69	-2.75	6	6	0	6600	6600	0
10/1/2024 16:30	40703	FFLD_T1	2	4	2	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
10/1/2024 16:30	40702	FFLD_T1	4	31	27	0.28	0.17	-0.11	-0.29	-0.36	1	1	0	1200	1200	0
10/1/2024 16:31	40902	JESH_T1	0	0	0	0	0	0	-1.5	-1.57	0	0	0	0	0	0
10/1/2024 16:37	67002	STHI_T2	0	0	0	0	0	0	1.37	1.39	0	0	0	0	0	0
10/1/2024 16:37	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/1/2024 16:42	21206	ECAR_T2	1	1	0	7.2	6.6	-0.6	1.29	1.28	0	0	0	0	0	0
10/1/2024 16:42	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 16:53	64904	MILL_T1	0	0	0	0	0	0	0.55	0.57	0	0	0	0	0	0
10/1/2024 16:56	64701	LITI_T1	0	0	0	0	0	0	0.24	0.28	0	0	0	0	0	0
10/1/2024 16:59	67605	WARW_T1	1	5	4	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/1/2024 16:59	67604	WARW_T1	0	0	0	0	0	0	0.63	0.59	0	0	0	0	0	0
10/1/2024 17:02	22602	KIMB_T1	0	1	1	0	0.1	0.1	0.33	0.32	0	0	0	0	0	0
10/1/2024 17:03	21204	ECAR_T2	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
10/1/2024 17:03	21206	ECAR_T2	1	1	0	6.5	6.7	0.2	1.28	1.26	0	0	0	0	0	0
10/1/2024 17:11	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 17:11	62604	ENGL_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	600	600	0
10/1/2024 17:13	62602	ENGL_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
10/1/2024 17:13	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 17:13	62605	ENGL_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
10/1/2024 17:14	62605	ENGL_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
10/1/2024 17:14	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 17:14	62604	ENGL_T1	0	0	0	0	0	0	-2.64	-2.64	3	3	0	1800	1800	0
10/1/2024 17:15	62604	ENGL_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	600	600	0
10/1/2024 17:15	62606	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/1/2024 17:25	67605	WARW_T1	5	2	-3	0.2	0.2	0	-1	-0.99	0	0	0	0	0	0
10/1/2024 17:30	64203	KINZ_T1	0	0	0	0	0	0	-0.28	-0.26	1	1	0	600	600	0
10/1/2024 17:30	64201	KINZ_T1	1	4	3	0.7	0.28	-0.42	0	0	0	0	0	0	0	0
10/1/2024 17:30	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
10/1/2024 17:30	64202	KINZ_T1	3	3	0	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
10/1/2024 17:36	45303	WBER_T2	5	6	1	1.92	1.63	-0.29	-0.04	-0.07	0	0	0	0	0	0
10/1/2024 17:37	45303	WBER_T2	5	6	1	1.92	1.63	-0.29	-0.04	-0.07	0	0	0	0	0	0
10/1/2024 17:42	24105	EHAZ_T1	4	4	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
10/1/2024 17:42	24104	EHAZ_T1	0	0	0	0	0	0	-0.86	-0.84	1	1	0	1200	1200	0
10/1/2024 17:47	22701	MINO_T1	0	0	0	0	0	0	-1.01	-0.95	1	1	0	600	600	0
10/1/2024 20:13	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 20:15	55002	NEWP_T1	3	4	1	0.73	0.55	-0.18	-0.26	-0.24	0	0	0	0	0	0
10/1/2024 20:22	64602	LEOL_T1	0	0	0	0	0	0	0.23	0.16	0	0	0	0	0	0
10/1/2024 20:24	65802	RTWN_T2	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
10/1/2024 20:25	57403	SPAN_T1	53	17	-36	0.32	0.29	-0.03	0.07	0.04	0	0	0	0	0	0
10/1/2024 20:25	57401	SPAN_T1	2	2	0	1	1	0	0	0	0	0	0	0	0	0
10/1/2024 20:25	65503	MOJO_T2	0	0	0	0	0	0	-0.16	-0.25	0	0	0	0	0	0
10/1/2024 20:26	47401	PENS_T1	0	0	0	0	0	0	0.51	0.48	0	0	0	0	0	0
10/1/2024 20:26	47403	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/1/2024 20:27	66502	SMAN_T2	0	0	0	0	0	0	-0.13	0.01	0	0	0	0	0	0
10/1/2024 20:28	65001	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/1/2024 20:28	62605	ENGL_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
10/1/2024 20:28	65004	NEFF_T2	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
10/1/2024 20:29	64704	LITI_T1	0	0	0	0	0	0	0.68	0.38	1	1	0	600	600	0
10/1/2024 20:29	65206	PRIN_T4	11	1	-10	0.75	0	-0.75	0	0	0	0	0	0	0	0
10/1/2024 20:29	65207	PRIN_T4	47	62	15	0.2	0.18	-0.02	0	0	2	2	0	1800	1800	0
10/1/2024 20:31	62604	ENGL_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	600	600	0
10/1/2024 20:31	16301	ALPA_T1	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
10/1/2024 20:31	58402	MORO_T1	0	0	0	0	0	0	-0.25	0.33	2	1	-1	1500	900	-600
10/1/2024 20:32	62605	ENGL_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
10/1/2024 20:32	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 20:32	54506	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 20:32	44502	HAMI_T2	1	1	0	3.5	3.4	-0.1	0	0	0	0	0	0	0	0
10/1/2024 20:32	44503	HAMI_T2	0	0	0	0	0	0	-1.17	-1.22	1	1	0	1200	1200	0
10/1/2024 20:32	50624	CCTY_T2	2	2	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
10/1/2024 20:32	50623	CCTY_T2	5	5	0	6.24	5.56	-0.68	0	0	0	0	0	0	0	0
10/1/2024 20:32	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/1/2024 20:32	63305	GREE_T1	0	0	0	0	0	0	-1.22	-1.23	0	0	0	0	0	0
10/1/2024 20:32	50625	CCTY_T2	6	6	0	2.27	2.35	0.08	0	0	0	0	0	0	0	0
10/1/2024 20:32	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	-1.3	-1.32	1	1	0	600	600	0
10/1/2024 20:32	64701	LITI_T1	0	0	0	0	0	0	0.19	0.24	0	0	0	0	0	0
10/1/2024 20:33	65503	MOJO_T2	0	0	0	0	0	0	-0.16	-0.25	0	0	0	0	0	0
10/1/2024 20:33	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/1/2024 20:33	54506	ENOL_T2	0	1	1	0	0	0	0.28	0.26	1	1	0	600	600	0
10/1/2024 20:33	67002	STHI_T2	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
10/1/2024 20:33	67503	WEWI_T2	1	1	0	7.7	7.7	0	-0.21	-0.23	0	0	0	0	0	0
10/1/2024 20:33	66502	SMAN_T2	0	0	0	0	0	0	-0.25	0.03	0	0	0	0	0	0
10/1/2024 20:33	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/1/2024 20:33	65205	PRIN_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
10/1/2024 20:33	67502	WEWI_T2	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
10/1/2024 20:33	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/1/2024 20:34	67402	WAKE_T2	0	0	0	0	0	0	-0.77	-0.73	2	2	0	1200	1200	0
10/1/2024 20:34	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
10/1/2024 20:34	66502	SMAN_T2	0	0	0	0	0	0	-0.13	0.01	0	0	0	0	0	0
10/1/2024 20:34	52502	PROG_T2	0	0	0	0	0	0	-0.61	-0.63	1	1	0	900	900	0
10/1/2024 20:34	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 20:34	16101	BING_T2	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
10/1/2024 20:34	67505	WEWI_T1	0	0	0	0	0	0	-0.13	-0.1	1	1	0	900	900	0
10/1/2024 20:34	62604	ENGL_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	600	600	0
10/1/2024 20:34	55002	NEWP_T1	3	4	1	0.6	0.6	0	-0.24	-0.26	0	0	0	0	0	0
10/1/2024 20:35	10602	BLGL_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
10/1/2024 20:35	67503	WEWI_T2	1	1	0	7.7	7.7	0	-0.21	-0.23	0	0	0	0	0	0
10/1/2024 20:35	45502	DERR_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
10/1/2024 20:35	67502	WEWI_T2	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
10/1/2024 20:35	58402	MORO_T1	0	0	0	0	0	0	-0.25	0.33	2	1	-1	1500	900	-600
10/1/2024 20:35	45501	DERR_T2	0	0	0	0	0	0	-0.1	-0.12	2	2	0	1800	1800	0
10/1/2024 20:35	65001	NEFF_T2	0	1	1	0	0.1	0.1	-1.64	-1.72	2	2	0	2400	2400	0
10/1/2024 20:36	64201	KINZ_T1	5	5	0	0.28	0.32	0.04	-0.59	-0.59	3	3	0	1500	1500	0
10/1/2024 20:36	64204	KINZ_T1	4	4	0	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
10/1/2024 20:36	67605	WARW_T1	13	21	8	0.35	0.56	0.21	0	0	0	0	0	0	0	0
10/1/2024 20:36	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/1/2024 20:36	65502	MOJO_T2	0	0	0	0	0	0	-0.69	-0.75	0	0	0	0	0	0
10/1/2024 20:36	64202	KINZ_T1	2	3	1	0.3	0.3	0	0	0	0	0	0	0	0	0
10/1/2024 20:36	16302	ALPA_T2	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/1/2024 20:36	50502	MECH_T1	1	12	11	2.7	0.36	-2.34	1472.09	1471.96	1	1	0	900	900	0
10/1/2024 20:36	50501	MECH_T1	4	4	0	0.23	0.5	0.27	0	0	0	0	0	0	0	0
10/1/2024 20:36	67603	WARW_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
10/1/2024 20:37	66505	SMAN_T2	0	0	0	0	0	0	0.47	0.42	1	1	0	900	900	0
10/1/2024 20:37	24202	PROV_T4	0	1	1	0	2.3	2.3	0	0	1	1	0	1200	1200	0
10/1/2024 20:37	45501	DERR_T2	0	0	0	0	0	0	-0.12	-0.17	2	2	0	1800	1800	0
10/1/2024 20:37	55002	NEWP_T1	3	4	1	0.6	0.6	0	0	0	0	0	0	0	0	0
10/1/2024 20:37	44502	HAMI_T2	1	1	0	3.5	3.4	-0.1	0	0	0	0	0	0	0	0
10/1/2024 20:37	12206	FOGE_T2	0	0	0	0	0	0	-1.52	-1.6	3	3	0	3300	3300	0
10/1/2024 20:37	45303	WBER_T2	4	6	2	2.48	1.72	-0.76	0	0	0	0	0	0	0	0
10/1/2024 20:37	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
10/1/2024 20:37	64903	MILL_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
10/1/2024 20:37	45302	WBER_T2	0	0	0	0	0	0	0.87	0.9	0	0	0	0	0	0
10/1/2024 20:37	53501	EVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/1/2024 20:37	61801	EELI_T2	0	0	0	0	0	0	-0.92	-0.94	1	1	0	600	600	0
10/1/2024 20:37	44505	HAMI_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
10/1/2024 20:37	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
10/1/2024 20:37	63305	GREE_T1	0	0	0	0	0	0	-1.23	-1.25	0	0	0	0	0	0
10/1/2024 20:37	55001	NEWP_T1	0	0	0	0	0	0	-0.28	-0.34	0	0	0	0	0	0
10/1/2024 20:37	53502	EVIL_T2	0	0	0	0	0	0	1.7	1.64	0	0	0	0	0	0
10/1/2024 20:38	50103	HARR_T3	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
10/1/2024 20:38	65206	PRIN_T4	1	0	-1	9.8	0	-9.8	0	0	0	0	0	0	0	0
10/1/2024 20:38	50202	HARR_T3	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/1/2024 20:38	16103	BING_T2	0	0	0	0	0	0	-0.87	-0.84	2	2	0	1500	1500	0
10/1/2024 20:38	24204	PROV_T3	2	2	0	2.95	2.9	-0.05	0	0	0	0	0	0	0	0
10/1/2024 20:38	43402	BENT_T1	0	0	0	0	0	0	-0.64	-0.63	1	1	0	600	600	0
10/1/2024 20:38	65207	PRIN_T4	21	85	64	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
10/1/2024 20:38	50201	HARR_T3	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/1/2024 20:38	54601	SUMM_T2	9	11	2	0.24	0.39	0.15	-1.79	-1.79	2	2	0	2100	2100	0
10/1/2024 20:38	50105	HARR_T3	6	6	0	6.05	5.87	-0.18	0	0	0	0	0	0	0	0
10/1/2024 20:38	24201	PROV_T3	1	1	0	6.3	6.3	0	-1.47	-1.5	1	1	0	1200	1200	0
10/1/2024 20:38	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/1/2024 20:38	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 20:38	64704	LITI_T1	0	0	0	0	0	0	0.38	0.55	1	1	0	600	600	0
10/1/2024 20:38	62604	ENGL_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	600	600	0
10/1/2024 20:38	50107	HARR_T3	1	1	0	6.8	6.3	-0.5	0	0	0	0	0	0	0	0
10/1/2024 20:38	16302	ALPA_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
10/1/2024 20:38	23202	HIRU_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
10/1/2024 20:38	25402	LAHA_T2	0	0	0	0	0	0	-0.89	-0.89	0	0	0	0	0	0
10/1/2024 20:39	40702	FFLD_T1	164	186	22	0.45	0.51	0.06	0	0	0	0	0	0	0	0
10/1/2024 20:39	40701	FFLD_T1	77	79	2	0.59	0.67	0.08	0	0	0	0	0	0	0	0
10/1/2024 20:39	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 20:39	40703	FFLD_T1	4	4	0	0.9	0.98	0.08	0	0	0	0	0	0	0	0
10/1/2024 20:39	66504	SMAN_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
10/1/2024 20:39	14801	TREI_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
10/1/2024 20:39	67002	STHI_T2	0	0	0	0	0	0	1.94	2.13	0	0	0	0	0	0
10/1/2024 20:39	66502	SMAN_T2	0	0	0	0	0	0	0.01	-0.12	0	0	0	0	0	0
10/1/2024 20:39	60101	COCA_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
10/1/2024 20:39	16302	ALPA_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
10/1/2024 20:39	62604	ENGL_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	600	600	0
10/1/2024 20:39	63501	HEID_TBK1-2	1	1	0	1.1	1.3	0.2	0.46	0.5	0	0	0	0	0	0
10/1/2024 20:39	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/1/2024 20:40	67001	STHI_T2	0	1	1	0	0.1	0.1	0.1	0.11	0	0	0	0	0	0
10/1/2024 20:40	58401	MORO_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
10/1/2024 20:40	40602	PIGR_T1	2	1	-1	0.8	0.4	-0.4	-1.12	-1.16	2	2	0	1200	1200	0
10/1/2024 20:40	23403	HONE_T1	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
10/1/2024 20:40	59002	MIFF_T1	5	5	0	0.46	0.5	0.04	0	0	0	0	0	0	0	0
10/1/2024 20:40	65502	MOJO_T2	0	0	0	0	0	0	-0.69	-0.75	0	0	0	0	0	0
10/1/2024 20:40	16302	ALPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 20:40	23203	HIRU_T2	0	0	0	0	0	0	0.01	0.06	0	0	0	0	0	0
10/1/2024 20:40	21504	CEAV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 20:40	65802	RTWN_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
10/1/2024 20:40	67106	SPRI_T2	0	0	0	0	0	0	-1.78	-1.8	2	2	0	1500	1500	0
10/1/2024 20:40	67002	STHI_T2	0	0	0	0	0	0	0.65	0.71	0	0	0	0	0	0
10/1/2024 20:40	40601	PIGR_T1	3	38	35	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/1/2024 20:40	59003	MIFF_T1	1	1	0	0.2	0.2	0	0.37	0.44	0	0	0	0	0	0
10/1/2024 20:40	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 20:41	45902	AUBU_T1	0	0	0	0	0	0	-1.01	-0.96	1	1	0	600	600	0
10/1/2024 20:41	60101	COCA_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
10/1/2024 20:41	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 20:41	67503	WEWI_T2	1	1	0	7.7	7.7	0	-0.23	-0.01	0	0	0	0	0	0
10/1/2024 20:41	64902	MILL_T2	0	0	0	0	0	0	-0.56	-0.6	1	1	0	900	900	0
10/1/2024 20:41	66502	SMAN_T2	0	0	0	0	0	0	0.01	-0.12	0	0	0	0	0	0
10/1/2024 20:42	43802	SWIL_T1	0	0	0	0	0	0	-0.13	-0.11	1	1	0	600	600	0
10/1/2024 20:42	16302	ALPA_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
10/1/2024 20:42	21704	SUBU_T1	0	0	0	0	0	0	-1.17	-1.12	1	1	0	1200	1200	0
10/1/2024 20:42	14801	TREI_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
10/1/2024 20:42	22002	BOHE_T1	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
10/1/2024 20:42	21701	SUBU_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
10/1/2024 20:42	43801	SWIL_T1	2	5	3	3.4	1.38	-2.02	0	0	0	0	0	0	0	0
10/1/2024 20:42	64903	MILL_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
10/1/2024 20:42	22001	BOHE_T1	65	48	-17	0.15	0.13	-0.02	0.21	0.22	0	0	0	0	0	0
10/1/2024 20:42	22003	BOHE_T1	303	280	-23	0.69	0.81	0.12	0	0	0	0	0	0	0	0
10/1/2024 20:42	12206	FOGE_T2	0	0	0	0	0	0	-1.52	-1.6	3	3	0	3300	3300	0
10/1/2024 20:42	24105	EHAZ_T1	4	4	0	6.18	5.98	-0.2	0	0	0	0	0	0	0	0
10/1/2024 20:42	24102	EHAZ_T1	4	1	-3	1	0.1	-0.9	0.58	0.58	0	0	0	0	0	0
10/1/2024 20:42	62604	ENGL_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	600	600	0
10/1/2024 20:42	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/1/2024 20:43	40601	PIGR_T1	3	38	35	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/1/2024 20:43	64902	MILL_T2	0	0	0	0	0	0	-0.56	-0.6	1	1	0	900	900	0
10/1/2024 20:43	46001	BERW_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
10/1/2024 20:43	24204	PROV_T3	2	2	0	2.95	2.9	-0.05	0	0	0	0	0	0	0	0
10/1/2024 20:43	67203	TEHI_T1	0	0	0	0	0	0	1.85	1.85	2	2	0	1500	1500	0
10/1/2024 20:43	16301	ALPA_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
10/1/2024 20:43	67001	STHI_T2	0	1	1	0	0.1	0.1	0.2	0.22	0	0	0	0	0	0
10/1/2024 20:43	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/1/2024 20:43	24201	PROV_T3	1	1	0	6.3	6.3	0	-1.47	-1.5	1	1	0	1200	1200	0
10/1/2024 20:43	40602	PIGR_T1	2	1	-1	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
10/1/2024 20:43	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 20:43	43402	BENT_T1	0	0	0	0	0	0	-0.64	-0.63	1	1	0	600	600	0
10/1/2024 20:43	63501	HEID_TBK1-2	1	1	0	1.1	1.3	0.2	0.46	0.5	0	0	0	0	0	0
10/1/2024 20:43	67503	WEWI_T2	1	1	0	7.7	7.7	0	-0.23	-0.01	0	0	0	0	0	0
10/1/2024 20:43	45902	AUBU_T1	0	0	0	0	0	0	-2.02	-1.92	2	2	0	1200	1200	0
10/1/2024 20:43	20201	JERM_T1	0	0	0	0	0	0	1.89	1.88	0	0	0	0	0	0
10/1/2024 20:43	62602	ENGL_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
10/1/2024 20:44	65003	NEFF_T2	0	0	0	0	0	0	-0.6	-0.53	1	1	0	600	600	0
10/1/2024 20:44	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 20:44	46002	BERW_T2	0	0	0	0	0	0	-1.12	-1.19	1	1	0	900	900	0
10/1/2024 20:44	22003	BOHE_T1	303	280	-23	0.69	0.81	0.12	0	0	0	0	0	0	0	0
10/1/2024 20:44	22001	BOHE_T1	65	48	-17	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
10/1/2024 20:44	67604	WARW_T1	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
10/1/2024 20:44	64902	MILL_T2	0	0	0	0	0	0	-0.56	-0.6	1	1	0	900	900	0
10/1/2024 20:44	22002	BOHE_T1	1	4	3	0.1	0.1	0	0.3	0.27	0	0	0	0	0	0
10/1/2024 20:44	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
10/1/2024 20:44	21206	ECAR_T2	1	1	0	6.7	7	0.3	1.37	1.35	0	0	0	0	0	0
10/1/2024 20:44	67605	WARW_T1	13	21	8	0.35	0.56	0.21	-1.13	-1.16	0	0	0	0	0	0
10/1/2024 20:44	65001	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/1/2024 20:45	67002	STHI_T2	0	0	0	0	0	0	0.65	0.71	0	0	0	0	0	0
10/1/2024 20:45	24105	EHAZ_T1	4	5	1	6.3	5.85	-0.45	0	0	0	0	0	0	0	0
10/1/2024 20:45	40602	PIGR_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
10/1/2024 20:45	40601	PIGR_T1	1	157	156	0.1	0.27	0.17	-0.79	-0.86	0	0	0	0	0	0
10/1/2024 20:45	64204	KINZ_T1	4	6	2	0.23	0.3	0.07	0	0	0	0	0	0	0	0
10/1/2024 20:45	46004	BERW_T2	1	0	-1	0.3	0	-0.3	-0.11	-0.1	0	0	0	0	0	0
10/1/2024 20:45	23901	EFMO_T2	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
10/1/2024 20:45	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 20:45	63501	HEID_TBK1-2	1	29	28	1.3	0.24	-1.06	0.46	0.5	0	0	0	0	0	0
10/1/2024 20:45	67001	STHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/1/2024 20:45	16301	ALPA_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
10/1/2024 20:45	24102	EHAZ_T1	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
10/1/2024 20:45	64202	KINZ_T1	2	3	1	0.25	0.73	0.48	0	0	0	0	0	0	0	0
10/1/2024 20:45	21601	EYNO_T1	0	0	0	0	0	0	0.4	0.32	0	0	0	0	0	0
10/1/2024 20:45	67401	WAKE_T2	0	0	0	0	0	0	-1	-1.02	0	0	0	0	0	0
10/1/2024 20:45	64203	KINZ_T1	0	0	0	0	0	0	-0.3	-0.28	1	1	0	600	600	0
10/1/2024 20:45	24104	EHAZ_T1	0	1	1	0	0	0	-0.88	-0.86	1	1	0	1200	1200	0
10/1/2024 20:45	64201	KINZ_T1	5	6	1	0.32	0.33	0.01	-0.59	-0.59	3	3	0	1500	1500	0
10/1/2024 20:46	46002	BERW_T2	0	0	0	0	0	0	-1.12	-1.19	1	1	0	900	900	0
10/1/2024 20:46	46506	LOHA_T1	3	3	0	5.8	6.1	0.3	0	0	0	0	0	0	0	0
10/1/2024 20:46	14801	TREI_T2	0	1	1	0	0.1	0.1	0.41	0.39	0	0	0	0	0	0
10/1/2024 20:46	15703	TANN_T2	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
10/1/2024 20:46	46501	LOHA_T1	0	0	0	0	0	0	0.02	0	1	1	0	1200	1200	0
10/1/2024 20:46	50701	SMEC_T1	0	0	0	0	0	0	-0.49	-0.51	1	1	0	900	900	0
10/1/2024 20:46	23203	HIRU_T2	0	0	0	0	0	0	0.01	0.06	0	0	0	0	0	0
10/1/2024 20:46	46504	LOHA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/1/2024 20:46	46502	LOHA_T1	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
10/1/2024 20:46	60102	COCA_T1	0	0	0	0	0	0	0.43	0.4	2	2	0	1200	1200	0
10/1/2024 20:46	49804	UNIV_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/1/2024 20:46	63302	GREE_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
10/1/2024 20:46	46004	BERW_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/1/2024 20:46	49803	UNIV_T1	1	1	0	5.6	5.5	-0.1	-0.89	-0.97	0	0	0	0	0	0
10/1/2024 20:46	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/1/2024 20:46	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
10/1/2024 20:46	67001	STHI_T2	1	1	0	0.1	0.2	0.1	0.1	0.11	0	0	0	0	0	0
10/1/2024 20:46	60101	COCA_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
10/1/2024 20:46	58401	MORO_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
10/1/2024 20:46	10801	CHHI_T1	0	1	1	0	0	0	-1.36	-1.33	2	2	0	1500	1500	0
10/1/2024 20:47	60801	BUCK_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
10/1/2024 20:47	44601	SALE_T2	0	0	0	0	0	0	0	0	1	1	0	300	300	0
10/1/2024 20:47	16302	ALPA_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
10/1/2024 20:47	64802	MONE_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
10/1/2024 20:47	40601	PIGR_T1	1	157	156	0.1	0.27	0.17	-0.79	-0.86	0	0	0	0	0	0
10/1/2024 20:47	22602	KIMB_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
10/1/2024 20:47	44505	HAMI_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
10/1/2024 20:47	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/1/2024 20:47	23203	HIRU_T2	0	0	0	0	0	0	0.01	0.06	0	0	0	0	0	0
10/1/2024 20:47	43301	WATS_T2	78	79	1	4.89	4.86	-0.03	0	0	0	0	0	0	0	0
10/1/2024 20:47	13303	ORVI_T1	0	0	0	0	0	0	0.95	0.88	0	0	0	0	0	0
10/1/2024 20:47	42201	SHEN_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
10/1/2024 20:47	55001	NEWP_T1	0	0	0	0	0	0	-0.28	-0.34	0	0	0	0	0	0
10/1/2024 20:47	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/1/2024 20:47	60102	COCA_T1	0	0	0	0	0	0	0.43	0.4	2	2	0	1200	1200	0
10/1/2024 20:47	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 20:47	40602	PIGR_T1	1	1	0	0.7	0.3	-0.4	-0.56	-0.58	1	1	0	600	600	0
10/1/2024 20:47	55002	NEWP_T1	4	6	2	0.55	0.68	0.13	0	0	0	0	0	0	0	0
10/1/2024 20:47	15703	TANN_T2	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
10/1/2024 20:47	43304	WATS_T2	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
10/1/2024 20:47	44502	HAMI_T2	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
10/1/2024 20:47	43302	WATS_T2	4	4	0	0.78	1.2	0.42	0	0	0	0	0	0	0	0
10/1/2024 20:48	13303	ORVI_T1	0	0	0	0	0	0	0.95	0.88	0	0	0	0	0	0
10/1/2024 20:48	40702	FFLD_T1	181	184	3	0.51	0.53	0.02	-0.62	-0.6	1	1	0	1200	1200	0
10/1/2024 20:48	59101	WALK_T2	0	0	0	0	0	0	1.35	1.36	0	0	0	0	0	0
10/1/2024 20:48	67201	TEHI_T1	0	0	0	0	0	0	0.71	0.53	0	0	0	0	0	0
10/1/2024 20:48	40703	FFLD_T1	4	4	0	0.98	0.95	-0.03	0	0	0	0	0	0	0	0
10/1/2024 20:48	44601	SALE_T2	0	0	0	0	0	0	0	0	1	1	0	300	300	0
10/1/2024 20:48	40701	FFLD_T1	78	84	6	0.66	0.7	0.04	0	0	0	0	0	0	0	0
10/1/2024 20:48	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/1/2024 20:48	40902	JESH_T1	0	0	0	0	0	0	-1.67	-1.72	0	0	0	0	0	0
10/1/2024 20:49	46001	BERW_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
10/1/2024 20:49	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 20:49	44502	HAMI_T2	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
10/1/2024 20:49	40902	JESH_T1	0	0	0	0	0	0	-0.84	-0.86	0	0	0	0	0	0
10/1/2024 20:50	40602	PIGR_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
10/1/2024 20:50	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
10/1/2024 20:50	46506	LOHA_T1	3	3	0	5.8	6.1	0.3	0	0	0	0	0	0	0	0
10/1/2024 20:50	44801	EDAN_T2	164	210	46	0.45	0.51	0.06	-1.59	-1.63	0	0	0	0	0	0
10/1/2024 20:50	46004	BERW_T2	1	0	-1	0.3	0	-0.3	-0.11	-0.1	0	0	0	0	0	0
10/1/2024 20:50	16702	MACK_T1	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
10/1/2024 20:50	46504	LOHA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/1/2024 20:50	40601	PIGR_T1	1	157	156	0.1	0.27	0.17	0	0	0	0	0	0	0	0
10/1/2024 20:50	10903	COOP_T2	0	5	5	0	0.12	0.12	-0.35	-0.36	1	1	0	600	600	0
10/1/2024 20:51	16301	ALPA_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
10/1/2024 20:51	46001	BERW_T1	0	0	0	0	0	0	0.36	0.3	0	0	0	0	0	0
10/1/2024 20:51	43802	SWIL_T1	0	0	0	0	0	0	-0.11	-0.14	1	1	0	600	600	0
10/1/2024 20:51	43801	SWIL_T1	3	11	8	2.27	0.7	-1.57	0	0	0	0	0	0	0	0
10/1/2024 20:52	45303	WBER_T2	3	9	6	3.17	1.32	-1.85	-0.12	-0.22	0	0	0	0	0	0
10/1/2024 20:52	46802	HEPB_T1	1	1	0	0.9	1.2	0.3	-0.24	-0.25	0	0	0	0	0	0
10/1/2024 20:53	21501	CEAV_T2	0	0	0	0	0	0	-0.15	1.16	1	0	-1	1200	0	-1200
10/1/2024 20:53	21502	CEAV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/1/2024 20:54	45303	WBER_T2	3	9	6	3.17	1.32	-1.85	-0.12	-0.22	0	0	0	0	0	0
10/1/2024 20:56	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
10/1/2024 20:56	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1/2024 20:56	46504	LOHA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/1/2024 20:56	46506	LOHA_T1	3	3	0	5.8	6.1	0.3	0	0	0	0	0	0	0	0
10/1/2024 20:56	60101	COCA_T1	0	0	0	0	0	0	0.37	0.32	0	0	0	0	0	0
10/1/2024 21:12	50107	HARR_T3	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
10/1/2024 21:12	50103	HARR_T3	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
10/1/2024 21:12	50202	HARR_T3	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/1/2024 21:12	50105	HARR_T3	6	6	0	5.88	5.9	0.02	0	0	0	0	0	0	0	0
10/1/2024 21:12	50201	HARR_T3	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/1/2024 21:14	66501	SMAN_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
10/1/2024 21:14	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.02	0	0	0	0	0	0
10/1/2024 21:15	64904	MILL_T1	49	0	-49	0.15	0	-0.15	-0.36	0.63	0	0	0	0	0	0
10/1/2024 21:15	64901	MILL_T1	48	0	-48	0.25	0	-0.25	0	0	0	0	0	0	0	0
10/1/2024 21:38	67106	SPRI_T2	0	0	0	0	0	0	-1.28	-1.28	1	1	0	900	900	0
10/2/2024 7:25	21501	CEAV_T2	0	0	0	0	0	0	1.1	1.08	0	0	0	0	0	0
10/2/2024 8:22	10102	ALLE_T2	1	0	-1	6.5	6.1	-0.4	0	0	0	0	0	0	0	0
10/2/2024 8:22	10206	ALLE_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
10/2/2024 8:22	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 8:22	67002	STHI_T2	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
10/2/2024 8:22	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 8:24	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 8:24	67002	STHI_T2	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
10/2/2024 8:40	22001	BOHE_T1	17	162	145	0.1	0.24	0.14	0	0	0	0	0	0	0	0
10/2/2024 8:40	22002	BOHE_T1	0	7	7	0	0.19	0.19	0.26	0.28	0	0	0	0	0	0
10/2/2024 8:40	22003	BOHE_T1	271	407	136	0.72	0.75	0.03	0	0	0	0	0	0	0	0
10/2/2024 8:52	10206	ALLE_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/2/2024 8:52	10102	ALLE_T2	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
10/2/2024 8:52	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 8:54	13704	SCHN_T2	11	6	-5	0.15	0.17	0.02	-0.3	-0.31	0	0	0	0	0	0
10/2/2024 8:54	10206	ALLE_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/2/2024 8:54	10102	ALLE_T2	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
10/2/2024 8:54	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 8:57	14204	FALL_T2	0	1	1	0	0	0	0.24	0.24	0	0	0	0	0	0
10/2/2024 8:59	11203	ELHE_T1	0	0	0	0	0	0	1.33	1.24	0	0	0	0	0	0
10/2/2024 9:03	13303	ORVI_T1	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
10/2/2024 9:07	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 9:07	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 9:11	22002	BOHE_T1	7	7	0	0.19	0.17	-0.02	0	0	0	0	0	0	0	0
10/2/2024 9:11	22003	BOHE_T1	401	393	-8	0.75	0.76	0.01	-0.22	-0.21	0	0	0	0	0	0
10/2/2024 9:11	22001	BOHE_T1	156	164	8	0.24	0.24	0	0	0	0	0	0	0	0	0
10/2/2024 9:24	10206	ALLE_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
10/2/2024 9:24	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 9:24	10102	ALLE_T2	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 9:26	51603	DUKE_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
10/2/2024 9:30	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/2/2024 9:31	22701	MINO_T1	0	0	0	0	0	0	-1.1	-1.08	1	1	0	600	600	0
10/2/2024 9:38	15203	SFAR_T2	0	1	1	0	0	0	-1.3	-1.28	0	0	0	0	0	0
10/2/2024 9:38	15203	SFAR_T2	0	1	1	0	0	0	-1.3	-1.28	0	0	0	0	0	0
10/2/2024 9:38	15203	SFAR_T2	0	1	1	0	0	0	-1.3	-1.28	0	0	0	0	0	0
10/2/2024 9:38	15203	SFAR_T2	0	1	1	0	0	0	-1.3	-1.28	0	0	0	0	0	0
10/2/2024 9:42	44801	EDAN_T2	237	234	-3	0.55	0.58	0.03	-1.64	-1.68	0	0	0	0	0	0
10/2/2024 9:43	10805	CHIH_T2	1	1	0	7.7	7.1	-0.6	-1.28	-1.26	2	2	0	1800	1800	0
10/2/2024 9:51	13303	ORVI_T1	0	0	0	0	0	0	-0.22	-0.08	0	0	0	0	0	0
10/2/2024 9:57	13704	SCHN_T2	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
10/2/2024 9:58	66903	SHIL_T2	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
10/2/2024 9:59	15202	SFAR_T1	0	0	0	0	0	0	-0.66	-0.48	2	2	0	2400	2400	0
10/2/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
10/2/2024 10:00	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 10:00	10206	ALLE_T2	1	1	0	1.6	1	-0.6	0	0	0	0	0	0	0	0
10/2/2024 10:00	66903	SHIL_T2	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
10/2/2024 10:00	10102	ALLE_T2	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
10/2/2024 10:03	15202	SFAR_T1	0	0	0	0	0	0	-0.33	-0.24	1	1	0	1200	1200	0
10/2/2024 10:03	61001	DONV_T1	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
10/2/2024 10:06	61002	DONV_T2	0	0	0	0	0	0	-0.7	-0.7	2	2	0	1200	1200	0
10/2/2024 10:07	24801	VALM_T1	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
10/2/2024 10:07	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.4	0	0	0	0	0	0
10/2/2024 10:07	28102	TWLA_T2	11	7	-4	0.34	0.27	-0.07	0.19	0.18	0	0	0	0	0	0
10/2/2024 10:07	15703	TANN_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
10/2/2024 10:08	67503	WEWI_T2	1	1	0	8.7	8.7	0	-0.21	-0.12	0	0	0	0	0	0
10/2/2024 10:08	67502	WEWI_T2	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
10/2/2024 10:09	18001	ZION_T1	2	2	0	9.75	9.65	-0.1	0	0	0	0	0	0	0	0
10/2/2024 10:13	46004	BERW_T2	0	0	0	0	0	0	0.11	0.02	0	0	0	0	0	0
10/2/2024 10:13	51603	DUKE_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
10/2/2024 10:13	11202	ELHE_T2	0	0	0	0	0	0	0.94	0.83	2	2	0	2400	2400	0
10/2/2024 10:14	15203	SFAR_T2	0	0	0	0	0	0	-1.27	-1.26	0	0	0	0	0	0
10/2/2024 10:14	57106	SPHI_T2	3	3	0	0.73	1.17	0.44	0	0	0	0	0	0	0	0
10/2/2024 10:14	57104	SPHI_T2	1	1	0	1.1	0.7	-0.4	-1.1	-1.1	0	0	0	0	0	0
10/2/2024 10:14	48901	FOSP_T2	0	0	0	0	0	0	-0.01	0.04	1	1	0	600	600	0
10/2/2024 10:14	57101	SPHI_T2	6	6	0	0.73	1.27	0.54	0	0	0	0	0	0	0	0
10/2/2024 10:15	15202	SFAR_T1	0	0	0	0	0	0	-0.24	-0.29	1	1	0	1200	1200	0
10/2/2024 10:15	15203	SFAR_T2	0	0	0	0	0	0	-1.27	-1.26	0	0	0	0	0	0
10/2/2024 10:15	64601	LEOL_T1	0	0	0	0	0	0	-1.56	-1.54	1	1	0	1200	1200	0
10/2/2024 10:16	48901	FOSP_T2	0	0	0	0	0	0	-0.02	0.08	2	2	0	1200	1200	0
10/2/2024 10:17	48901	FOSP_T2	0	0	0	0	0	0	-0.01	0.04	1	1	0	600	600	0
10/2/2024 10:18	51603	DUKE_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
10/2/2024 10:18	55002	NEWP_T1	6	6	0	1.02	0.83	-0.19	-0.25	-0.25	0	0	0	0	0	0
10/2/2024 10:19	22701	MINO_T1	0	0	0	0	0	0	-1.07	-1.07	1	1	0	600	600	0
10/2/2024 10:20	13303	ORVI_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
10/2/2024 10:20	43802	SWIL_T1	0	0	0	0	0	0	-0.1	-0.09	1	1	0	600	600	0
10/2/2024 10:20	43801	SWIL_T1	2	2	0	2.55	2.4	-0.15	0	0	0	0	0	0	0	0
10/2/2024 10:21	12202	FOGE_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/2/2024 10:21	13303	ORVI_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
10/2/2024 10:21	12206	FOGE_T2	0	0	0	0	0	0	-0.73	-0.76	2	2	0	2100	2100	0
10/2/2024 10:22	55002	NEWP_T1	6	6	0	1.02	0.83	-0.19	-0.25	-0.27	0	0	0	0	0	0
10/2/2024 10:25	10801	CHIH_T1	0	0	0	0	0	0	-0.68	-0.52	1	1	0	900	900	0
10/2/2024 10:26	24101	EHAZ_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 10:26	24102	EHAZ_T1	0	2	2	0	0	0	1.29	1.23	0	0	0	0	0	0
10/2/2024 10:26	24105	EHAZ_T1	4	4	0	6.48	6.33	-0.15	0	0	0	0	0	0	0	0
10/2/2024 10:26	67505	WEWI_T1	0	0	0	0	0	0	-0.22	-0.14	1	1	0	900	900	0
10/2/2024 10:29	11504	FREE_T1	0	0	0	0	0	0	-2.44	-2.39	2	2	0	2100	2100	0
10/2/2024 10:36	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 10:37	24206	PROV_T4	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
10/2/2024 10:37	24202	PROV_T4	0	1	1	0	0	0	0	0	1	1	0	1200	1200	0
10/2/2024 10:37	65503	MOJO_T2	0	0	0	0	0	0	-0.98	-0.94	1	1	0	900	900	0
10/2/2024 10:38	51603	DUKE_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
10/2/2024 10:38	67503	WEWI_T2	1	1	0	8.6	8.9	0.3	-0.12	-0.24	0	0	0	0	0	0
10/2/2024 10:39	67503	WEWI_T2	1	1	0	8.6	8.9	0.3	0	0	0	0	0	0	0	0
10/2/2024 10:39	21501	CEAV_T2	0	0	0	0	0	0	0.52	0.37	1	1	0	1200	1200	0
10/2/2024 10:39	67502	WEWI_T2	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
10/2/2024 10:39	21502	CEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 10:39	13704	SCHN_T2	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
10/2/2024 10:43	22003	BOHE_T1	255	275	20	0.68	0.67	-0.01	0	0	0	0	0	0	0	0
10/2/2024 10:43	22001	BOHE_T1	5	53	48	0.14	0.12	-0.02	0.2	0.19	0	0	0	0	0	0
10/2/2024 10:44	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/2/2024 10:46	25402	LAHA_T2	0	0	0	0	0	0	-0.82	-0.75	0	0	0	0	0	0
10/2/2024 10:51	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.69	1	1	0	900	900	0
10/2/2024 10:51	64903	MILL_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/2/2024 10:52	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.69	1	1	0	900	900	0
10/2/2024 10:53	54601	SUMM_T2	5	5	0	0.28	0.22	-0.06	-1.8	-1.81	2	2	0	2100	2100	0
10/2/2024 10:53	67402	WAKE_T2	0	0	0	0	0	0	0.33	0.33	1	1	0	600	600	0
10/2/2024 10:54	16301	ALPA_T1	0	1	1	0	0.2	0.2	0.11	0.14	0	0	0	0	0	0
10/2/2024 10:55	50625	CCTY_T2	3	3	0	4.37	4.33	-0.04	0	0	0	0	0	0	0	0
10/2/2024 10:55	50624	CCTY_T2	2	2	0	6.25	6.35	0.1	0	0	0	0	0	0	0	0
10/2/2024 10:55	50623	CCTY_T2	5	5	0	5.8	5.92	0.12	0	0	0	0	0	0	0	0
10/2/2024 10:55	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 10:56	22002	BOHE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 10:56	22003	BOHE_T1	264	298	34	0.67	0.75	0.08	-0.21	-0.21	0	0	0	0	0	0
10/2/2024 10:56	22001	BOHE_T1	19	105	86	0.12	0.15	0.03	0	0	0	0	0	0	0	0
10/2/2024 10:57	16301	ALPA_T1	0	1	1	0	0.2	0.2	0.11	0.14	0	0	0	0	0	0
10/2/2024 10:57	10705	CATA_T2	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0
10/2/2024 10:58	16301	ALPA_T1	0	1	1	0	0.2	0.2	0.11	0.14	0	0	0	0	0	0
10/2/2024 10:59	16301	ALPA_T1	0	1	1	0	0.2	0.2	0.11	0.14	0	0	0	0	0	0
10/2/2024 11:00	17401	FOHI_T1	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
10/2/2024 11:03	58402	MORO_T1	0	0	0	0	0	0	-0.1	-0.16	2	2	0	1500	1500	0
10/2/2024 11:05	66502	SMAN_T2	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
10/2/2024 11:06	65502	MOJO_T2	0	0	0	0	0	0	-0.57	-0.74	1	1	0	900	900	0
10/2/2024 11:06	58401	MORO_T1	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
10/2/2024 11:07	65502	MOJO_T2	0	0	0	0	0	0	-0.57	-0.74	1	1	0	900	900	0
10/2/2024 11:07	58401	MORO_T1	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
10/2/2024 11:08	67201	TEHI_T1	0	0	0	0	0	0	1.49	1.7	1	1	0	900	900	0
10/2/2024 11:08	65503	MOJO_T2	0	0	0	0	0	0	-0.93	-0.95	1	1	0	900	900	0
10/2/2024 11:13	13704	SCHN_T2	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
10/2/2024 11:16	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 11:17	13501	MCMI_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
10/2/2024 11:18	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/2/2024 11:18	23203	HIRU_T2	0	0	0	0	0	0	0.2	0.29	0	0	0	0	0	0
10/2/2024 11:28	11202	ELHE_T2	0	0	0	0	0	0	0.44	0.45	1	1	0	1200	1200	0
10/2/2024 11:28	63501	HEID_TBK1-2	1	1	0	1.4	1.5	0.1	0.08	0.03	1	1	0	900	900	0
10/2/2024 11:29	63501	HEID_TBK1-2	1	1	0	1.4	1.5	0.1	0.08	0.03	1	1	0	900	900	0
10/2/2024 11:30	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
10/2/2024 11:30	63801	HEMP_T1	0	0	0	0	0	0	0.24	0.43	0	0	0	0	0	0
10/2/2024 11:30	46602	LACR_T1	0	0	0	0	0	0	-0.99	-0.95	0	0	0	0	0	0
10/2/2024 11:33	63501	HEID_TBK1-2	1	1	0	1.4	1.6	0.2	0.08	0.03	1	1	0	900	900	0
10/2/2024 11:36	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/2/2024 11:36	67002	STHI_T2	0	0	0	0	0	0	2.31	2.31	0	0	0	0	0	0
10/2/2024 11:37	67002	STHI_T2	0	0	0	0	0	0	0.77	0.77	0	0	0	0	0	0
10/2/2024 11:37	67001	STHI_T2	1	1	0	0.1	0.1	0	0.07	0.07	0	0	0	0	0	0
10/2/2024 11:38	67002	STHI_T2	0	0	0	0	0	0	1.54	1.54	0	0	0	0	0	0
10/2/2024 11:38	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/2/2024 11:39	60801	BUCK_T1	0	22	22	0	0.16	0.16	-0.54	-0.69	1	1	0	600	600	0
10/2/2024 11:39	16101	BING_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
10/2/2024 11:39	60803	BUCK_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 11:41	67001	STHI_T2	1	1	0	0.1	0.1	0	0.07	0.07	0	0	0	0	0	0
10/2/2024 11:48	13302	ORVI_T2	1	2	1	0.5	0.25	-0.25	1.14	1.13	0	0	0	0	0	0
10/2/2024 11:50	67402	WAKE_T2	0	0	0	0	0	0	0.34	0.36	1	1	0	600	600	0
10/2/2024 11:53	67605	WARW_T1	21	23	2	0.43	0.6	0.17	-1.11	-1.08	0	0	0	0	0	0
10/2/2024 12:02	50201	HARR_T3	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
10/2/2024 12:02	50107	HARR_T3	1	1	0	7.3	7.7	0.4	0	0	0	0	0	0	0	0
10/2/2024 12:02	50103	HARR_T3	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
10/2/2024 12:02	50105	HARR_T3	6	6	0	6.15	6.2	0.05	0	0	0	0	0	0	0	0
10/2/2024 12:08	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 12:11	60201	ATGL_T2	0	0	0	0	0	0	-0.3	-0.25	0	0	0	0	0	0
10/2/2024 12:11	42701	AUGU_T1	1	1	0	1.3	1.5	0.2	0	0	2	2	0	1800	1800	0
10/2/2024 12:15	40602	PIGR_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
10/2/2024 12:15	40601	PIGR_T1	8	11	3	0.15	0.15	0	0	0	0	0	0	0	0	0
10/2/2024 12:21	67603	WARW_T1	0	0	0	0	0	0	-0.04	-0.01	0	0	0	0	0	0
10/2/2024 12:21	67605	WARW_T1	22	19	-3	0.59	0.63	0.04	0	0	0	0	0	0	0	0
10/2/2024 12:23	23201	HIRU_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
10/2/2024 12:23	23203	HIRU_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
10/2/2024 12:24	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 12:27	11504	FREE_T1	0	0	0	0	0	0	-2.36	-2.36	2	2	0	2100	2100	0
10/2/2024 12:29	20201	JERM_T1	0	0	0	0	0	0	-0.11	0.15	2	2	0	2400	2400	0
10/2/2024 12:30	64302	LINC_T2	0	0	0	0	0	0	1.04	1.08	0	0	0	0	0	0
10/2/2024 12:30	63804	HEMP_T1	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
10/2/2024 12:30	63802	HEMP_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
10/2/2024 12:30	64304	LINC_T2	11	0	-11	0.13	0	-0.13	0	0	0	0	0	0	0	0
10/2/2024 12:40	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 12:40	57403	SPAN_T1	15	16	1	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
10/2/2024 12:40	45902	AUBU_T1	0	0	0	0	0	0	-0.49	-0.48	1	1	0	600	600	0
10/2/2024 12:40	57401	SPAN_T1	5	4	-1	0.26	0.38	0.12	-0.98	-0.93	1	1	0	600	600	0
10/2/2024 12:41	57403	SPAN_T1	15	16	1	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
10/2/2024 12:41	57401	SPAN_T1	5	4	-1	0.26	0.38	0.12	-1.96	-1.87	2	2	0	1200	1200	0
10/2/2024 12:42	57401	SPAN_T1	5	4	-1	0.26	0.38	0.12	-0.98	-0.93	1	1	0	600	600	0
10/2/2024 12:42	57403	SPAN_T1	15	16	1	0.17	0.16	-0.01	0	-0.01	0	0	0	0	0	0
10/2/2024 12:44	57401	SPAN_T1	5	4	-1	0.26	0.38	0.12	0	0	0	0	0	0	0	0
10/2/2024 12:44	57403	SPAN_T1	15	16	1	0.17	0.16	-0.01	0	-0.01	0	0	0	0	0	0
10/2/2024 12:48	47403	PENS_T1	1	1	0	1.2	1.8	0.6	0	0	0	0	0	0	0	0
10/2/2024 12:48	47401	PENS_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
10/2/2024 12:53	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 12:53	14801	TREI_T2	2	1	-1	0.25	0.4	0.15	0.38	0.34	0	0	0	0	0	0
10/2/2024 12:53	67002	STHI_T2	0	0	0	0	0	0	0.75	0.72	0	0	0	0	0	0
10/2/2024 12:56	14801	TREI_T2	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
10/2/2024 12:56	46001	BERW_T1	0	0	0	0	0	0	0.84	0.85	0	0	0	0	0	0
10/2/2024 12:56	14802	TREI_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
10/2/2024 12:57	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 12:57	67002	STHI_T2	0	0	0	0	0	0	0.75	0.72	0	0	0	0	0	0
10/2/2024 12:57	14801	TREI_T2	2	1	-1	0.25	0.4	0.15	0.38	0.34	0	0	0	0	0	0
10/2/2024 12:58	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 12:58	46001	BERW_T1	0	0	0	0	0	0	0.84	0.85	0	0	0	0	0	0
10/2/2024 13:04	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/2/2024 13:08	42701	AUGU_T1	1	1	0	1	0.7	-0.3	0	0	2	2	0	1800	1800	0
10/2/2024 13:09	17901	BART_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 13:09	42701	AUGU_T1	1	1	0	1	0.7	-0.3	0	0	4	4	0	3600	3600	0
10/2/2024 13:10	42701	AUGU_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
10/2/2024 13:10	17901	BART_T1	0	0	0	0	0	0	0.93	0.89	2	2	0	2400	2400	0
10/2/2024 13:18	64704	LITI_T1	0	0	0	0	0	0	0.3	0.52	1	1	0	600	600	0
10/2/2024 13:19	64704	LITI_T1	0	0	0	0	0	0	0.3	0.52	1	1	0	600	600	0
10/2/2024 13:19	17002	RIRO_T2	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
10/2/2024 13:20	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
10/2/2024 13:20	54503	ENOL_T2	0	0	0	0	0	0	-0.39	-0.4	1	1	0	600	600	0
10/2/2024 13:20	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/2/2024 13:21	40602	PIGR_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
10/2/2024 13:21	40601	PIGR_T1	0	5	5	0	0.12	0.12	-0.39	-0.43	0	0	0	0	0	0
10/2/2024 13:22	40602	PIGR_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
10/2/2024 13:22	40601	PIGR_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
10/2/2024 13:23	40602	PIGR_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
10/2/2024 13:23	15603	NSTR_T2	1	2	1	0.1	0.1	0	-0.32	-0.3	0	0	0	0	0	0
10/2/2024 13:23	40601	PIGR_T1	0	5	5	0	0.12	0.12	-0.43	-0.45	0	0	0	0	0	0
10/2/2024 13:23	15601	NSTR_T2	3	3	0	0.27	0.67	0.4	0	0	0	0	0	0	0	0
10/2/2024 13:24	45902	AUBU_T1	0	0	0	0	0	0	-0.7	-0.7	1	1	0	600	600	0
10/2/2024 13:27	40601	PIGR_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
10/2/2024 13:27	40602	PIGR_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
10/2/2024 13:33	65207	PRIN_T4	1	3	2	0.2	0.2	0	0	0	2	2	0	1800	1800	0
10/2/2024 13:33	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 13:34	65502	MOJO_T2	0	0	0	0	0	0	-0.74	-0.84	1	1	0	900	900	0
10/2/2024 13:35	56802	BENV_T2	1	1	0	0.9	1.2	0.3	-0.88	-0.88	0	0	0	0	0	0
10/2/2024 13:38	65205	PRIN_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
10/2/2024 13:40	10805	CHHI_T2	1	1	0	7.4	7.1	-0.3	-1.28	-1.27	2	2	0	1800	1800	0
10/2/2024 13:49	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/2/2024 13:49	46102	MACI_T1	0	0	0	0	0	0	0.82	0.79	0	0	0	0	0	0
10/2/2024 13:50	46101	MACI_T2	0	0	0	0	0	0	-1.2	-1.24	2	2	0	2400	2400	0
10/2/2024 13:50	56501	ROCK_T2	2	2	0	0.4	0.6	0.2	0.03	0.05	0	0	0	0	0	0
10/2/2024 13:51	54601	SUMM_T2	11	13	2	0.35	0.36	0.01	-1.78	-1.78	2	2	0	2100	2100	0
10/2/2024 13:51	46101	MACI_T2	0	0	0	0	0	0	-1.2	-1.24	2	2	0	2400	2400	0
10/2/2024 13:52	55101	WERT_T1	0	0	0	0	0	0	-1.04	-1.06	1	1	0	600	600	0
10/2/2024 13:52	54601	SUMM_T2	11	13	2	0.35	0.36	0.01	-1.78	-1.81	2	2	0	2100	2100	0
10/2/2024 13:52	56501	ROCK_T2	2	2	0	0.4	0.6	0.2	0.05	0.04	0	0	0	0	0	0
10/2/2024 13:55	10705	CATA_T2	1	0	-1	0.3	0	-0.3	0.07	0.06	0	0	0	0	0	0
10/2/2024 13:55	10702	CATA_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
10/2/2024 13:55	10704	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 13:55	56501	ROCK_T2	2	2	0	0.4	0.6	0.2	0.05	0.04	0	0	0	0	0	0
10/2/2024 13:56	10704	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 13:56	10705	CATA_T2	1	0	-1	0.3	0	-0.3	0.07	0.06	0	0	0	0	0	0
10/2/2024 13:56	10702	CATA_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
10/2/2024 13:57	10702	CATA_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
10/2/2024 13:57	10705	CATA_T2	1	0	-1	0.3	0	-0.3	0.07	0.06	0	0	0	0	0	0
10/2/2024 13:57	10704	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 13:59	10704	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 13:59	10705	CATA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/2/2024 13:59	10702	CATA_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
10/2/2024 13:59	10701	CATA_T2	0	0	0	0	0	0	-0.43	-0.39	0	0	0	0	0	0
10/2/2024 14:16	45702	LIND_T2	69	18	-51	0.22	0.26	0.04	-0.55	-0.54	0	0	0	0	0	0
10/2/2024 14:18	64305	LINC_T1	0	0	0	0	0	0	0.08	0.13	0	0	0	0	0	0
10/2/2024 14:19	54502	ENOL_T2	1	1	0	0.3	0.4	0.1	-1.33	-1.4	0	0	0	0	0	0
10/2/2024 14:19	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
10/2/2024 14:20	66502	SMAN_T2	0	0	0	0	0	0	0.8	0.83	0	0	0	0	0	0
10/2/2024 14:21	66502	SMAN_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
10/2/2024 14:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 14:22	66502	SMAN_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
10/2/2024 14:23	66504	SMAN_T2	0	0	0	0	0	0	-0.36	-0.23	0	0	0	0	0	0
10/2/2024 14:26	24104	EHAZ_T1	0	0	0	0	0	0	-0.85	-0.82	1	1	0	1200	1200	0
10/2/2024 14:26	24105	EHAZ_T1	4	4	0	6.3	6.3	0	0	0	0	0	0	0	0	0
10/2/2024 14:26	22002	BOHE_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
10/2/2024 14:26	22003	BOHE_T1	254	251	-3	0.67	0.68	0.01	0	0	0	0	0	0	0	0
10/2/2024 14:26	22001	BOHE_T1	22	5	-17	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
10/2/2024 14:26	24102	EHAZ_T1	22	22	0	1.01	0.4	-0.61	0	0	0	0	0	0	0	0
10/2/2024 14:26	24101	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 14:31	63305	GREE_T1	1	6	5	0.1	0.25	0.15	-1.88	-1.93	1	1	0	900	900	0
10/2/2024 14:32	54506	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 14:32	54504	ENOL_T2	0	0	0	0	0	0	-1.16	-1.16	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/2/2024 14:32	54502	ENOL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/2/2024 14:32	54505	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
10/2/2024 14:36	54602	SUMM_T2	2	8	6	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/2/2024 14:36	54601	SUMM_T2	14	11	-3	0.51	0.66	0.15	-1.81	-1.82	2	2	0	2100	2100	0
10/2/2024 14:37	54603	SUMM_T2	0	0	0	0	0	0	0.2	0.26	1	1	0	900	900	0
10/2/2024 14:37	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 14:37	54602	SUMM_T2	2	8	6	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/2/2024 14:37	65207	PRIN_T4	58	22	-36	0.15	0.17	0.02	0	0	0	0	0	0	0	0
10/2/2024 14:37	54601	SUMM_T2	14	11	-3	0.51	0.66	0.15	0	0	0	0	0	0	0	0
10/2/2024 14:37	65206	PRIN_T4	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
10/2/2024 14:38	67401	WAKE_T2	0	0	0	0	0	0	-1.05	-0.98	0	0	0	0	0	0
10/2/2024 14:40	54601	SUMM_T2	14	11	-3	0.51	0.66	0.15	0	0	0	0	0	0	0	0
10/2/2024 14:40	42201	SHEN_T2	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
10/2/2024 14:40	54603	SUMM_T2	0	0	0	0	0	0	0.2	0.26	1	1	0	900	900	0
10/2/2024 14:40	54602	SUMM_T2	2	8	6	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/2/2024 14:45	50107	HARR_T3	1	1	0	6.4	6	-0.4	0	0	0	0	0	0	0	0
10/2/2024 14:45	50105	HARR_T3	6	7	1	5.82	5.87	0.05	0	0	0	0	0	0	0	0
10/2/2024 14:45	50103	HARR_T3	2	2	0	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
10/2/2024 14:45	50201	HARR_T3	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
10/2/2024 14:46	50105	HARR_T3	6	7	1	5.82	5.87	0.05	0	0	0	0	0	0	0	0
10/2/2024 14:46	50107	HARR_T3	1	1	0	6.4	6	-0.4	0	0	0	0	0	0	0	0
10/2/2024 14:46	50103	HARR_T3	2	2	0	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
10/2/2024 14:46	50201	HARR_T3	1	1	0	1.1	1.1	0	0	0	1	1	0	1200	1200	0
10/2/2024 14:48	63302	GREE_T1	0	0	0	0	0	0	0.77	0.9	0	0	0	0	0	0
10/2/2024 14:48	50107	HARR_T3	1	1	0	6.4	6	-0.4	0	0	0	0	0	0	0	0
10/2/2024 14:48	50103	HARR_T3	2	2	0	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
10/2/2024 14:48	50105	HARR_T3	6	7	1	5.82	5.87	0.05	0	0	0	0	0	0	0	0
10/2/2024 14:48	63305	GREE_T1	6	5	-1	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
10/2/2024 14:48	50201	HARR_T3	1	1	0	1.1	1.1	0	0	0	1	1	0	1200	1200	0
10/2/2024 14:49	64802	MONE_T2	0	4	4	0	0.28	0.28	0.22	0.23	0	0	0	0	0	0
10/2/2024 14:49	64801	MONE_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
10/2/2024 14:49	52502	PROG_T2	0	0	0	0	0	0	-0.67	-0.68	1	1	0	900	900	0
10/2/2024 14:54	67203	TEHI_T1	0	0	0	0	0	0	2.43	1.99	2	2	0	1500	1500	0
10/2/2024 14:54	67201	TEHI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/2/2024 14:56	60701	BREC_T1	0	0	0	0	0	0	-0.3	0.57	4	2	-2	2400	1200	-1200
10/2/2024 14:56	67402	WAKE_T2	0	0	0	0	0	0	-0.36	-0.36	1	1	0	600	600	0
10/2/2024 14:57	60701	BREC_T1	0	0	0	0	0	0	-0.3	0.57	4	2	-2	2400	1200	-1200
10/2/2024 14:57	47202	FAXO_T2	0	0	0	0	0	0	-2.23	-2.24	0	0	0	0	0	0
10/2/2024 14:59	63305	GREE_T1	6	5	-1	0.25	0.18	-0.07	-2.01	-1.8	1	1	0	900	900	0
10/2/2024 15:03	50105	HARR_T3	7	7	0	5.36	5.83	0.47	0	0	0	0	0	0	0	0
10/2/2024 15:03	50107	HARR_T3	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 15:03	50201	HARR_T3	1	1	0	1.1	1.1	0	0	0	1	1	0	1200	1200	0
10/2/2024 15:03	50103	HARR_T3	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
10/2/2024 15:03	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 15:04	63501	HEID_TBK1-2	1	2	1	0.9	0.55	-0.35	0.19	0.1	1	1	0	900	900	0
10/2/2024 15:07	66901	SHIL_T2	0	0	0	0	0	0	-1.58	-1.58	1	1	0	1200	1200	0
10/2/2024 15:08	66901	SHIL_T2	0	0	0	0	0	0	-1.58	-1.58	1	1	0	1200	1200	0
10/2/2024 15:08	66502	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/2/2024 15:08	44801	EDAN_T2	109	97	-12	0.36	0.42	0.06	-1.62	-1.61	0	0	0	0	0	0
10/2/2024 15:08	66504	SMAN_T2	0	0	0	0	0	0	-0.45	-0.38	0	0	0	0	0	0
10/2/2024 15:09	66502	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/2/2024 15:09	66504	SMAN_T2	0	0	0	0	0	0	-0.23	-0.19	0	0	0	0	0	0
10/2/2024 15:09	66901	SHIL_T2	0	0	0	0	0	0	-1.58	-1.58	1	1	0	1200	1200	0
10/2/2024 15:15	63804	HEMP_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
10/2/2024 15:15	63802	HEMP_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
10/2/2024 15:18	63804	HEMP_T1	1	1	0	5.6	5.5	-0.1	1.11	1.07	0	0	0	0	0	0
10/2/2024 15:21	63802	HEMP_T1	0	0	0	0	0	0	0.27	0.31	0	0	0	0	0	0
10/2/2024 15:21	66903	SHIL_T2	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
10/2/2024 15:21	63804	HEMP_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
10/2/2024 15:22	52202	DEVO_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
10/2/2024 15:23	65502	MOJO_T2	155	93	-62	0.13	0.11	-0.02	-0.99	-0.81	1	1	0	900	900	0
10/2/2024 15:23	67502	WEWI_T2	13	44	31	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
10/2/2024 15:23	67503	WEWI_T2	1	1	0	9	8.8	-0.2	-0.11	-0.12	0	0	0	0	0	0
10/2/2024 15:23	65503	MOJO_T2	59	52	-7	0.11	0.11	0	0	0	0	0	0	0	0	0
10/2/2024 15:23	52202	DEVO_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
10/2/2024 15:24	66903	SHIL_T2	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
10/2/2024 15:25	46004	BERW_T2	0	0	0	0	0	0	0.03	-0.1	0	0	0	0	0	0
10/2/2024 15:25	67502	WEWI_T2	13	44	31	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
10/2/2024 15:25	67503	WEWI_T2	1	1	0	9	8.8	-0.2	-0.11	-0.12	0	0	0	0	0	0
10/2/2024 15:26	67605	WARW_T1	35	34	-1	0.61	0.46	-0.15	-1.08	-1.04	0	0	0	0	0	0
10/2/2024 15:27	50103	HARR_T3	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
10/2/2024 15:27	50107	HARR_T3	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
10/2/2024 15:27	46004	BERW_T2	0	0	0	0	0	0	0.03	-0.1	0	0	0	0	0	0
10/2/2024 15:27	50105	HARR_T3	6	7	1	5.88	6.02	0.14	0	0	0	0	0	0	0	0
10/2/2024 15:27	67605	WARW_T1	35	34	-1	0.61	0.46	-0.15	-1.08	-1.04	0	0	0	0	0	0
10/2/2024 15:27	50201	HARR_T3	1	1	0	1.1	0.6	-0.5	0	0	1	1	0	1200	1200	0
10/2/2024 15:30	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 15:34	21206	ECAR_T2	1	1	0	7	7.2	0.2	0	0	0	0	0	0	0	0
10/2/2024 15:34	21204	ECAR_T2	1	1	0	0.6	0.6	0	-0.73	-0.74	0	0	0	0	0	0
10/2/2024 15:39	66903	SHIL_T2	0	0	0	0	0	0	-0.84	-0.81	0	0	0	0	0	0
10/2/2024 15:39	66902	SHIL_T2	0	0	0	0	0	0	-0.89	-0.89	0	0	0	0	0	0
10/2/2024 15:40	66903	SHIL_T2	0	0	0	0	0	0	-0.84	-0.81	0	0	0	0	0	0
10/2/2024 15:43	61301	EARL_T1	0	0	0	0	0	0	-1.12	-0.47	2	1	-1	1800	900	-900
10/2/2024 15:45	28703	HAML_T2	3	3	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
10/2/2024 15:45	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/2/2024 15:48	28102	TWLA_T2	9	14	5	0.26	0.74	0.48	0.18	0.19	0	0	0	0	0	0
10/2/2024 15:50	65003	NEFF_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
10/2/2024 15:50	65001	NEFF_T2	0	0	0	0	0	0	-0.58	-0.56	1	1	0	1200	1200	0
10/2/2024 15:52	65004	NEFF_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
10/2/2024 15:52	65003	NEFF_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
10/2/2024 15:54	14801	TREI_T2	0	1	1	0	0.1	0.1	0.4	0.4	0	0	0	0	0	0
10/2/2024 15:54	22701	MINO_T1	0	0	0	0	0	0	-0.99	-1.04	1	1	0	600	600	0
10/2/2024 16:00	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 16:00	64204	KINZ_T1	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
10/2/2024 16:00	44505	HAMI_T2	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
10/2/2024 16:00	64202	KINZ_T1	3	3	0	0.43	0.73	0.3	0	0	0	0	0	0	0	0
10/2/2024 16:00	44502	HAMI_T2	1	1	0	3	2.9	-0.1	0	0	0	0	0	0	0	0
10/2/2024 16:01	64201	KINZ_T1	0	0	0	0	0	0	-0.92	-0.93	4	4	0	2100	2100	0
10/2/2024 16:01	64202	KINZ_T1	3	3	0	0.43	0.73	0.3	0	0	0	0	0	0	0	0
10/2/2024 16:01	44502	HAMI_T2	1	1	0	3	2.9	-0.1	0	0	0	0	0	0	0	0
10/2/2024 16:01	44505	HAMI_T2	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
10/2/2024 16:01	64204	KINZ_T1	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
10/2/2024 16:02	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 16:02	44502	HAMI_T2	1	1	0	3	2.9	-0.1	0	0	0	0	0	0	0	0
10/2/2024 16:05	64202	KINZ_T1	3	3	0	0.43	0.73	0.3	0	0	0	0	0	0	0	0
10/2/2024 16:05	64204	KINZ_T1	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
10/2/2024 16:05	64201	KINZ_T1	0	0	0	0	0	0	-0.92	-0.93	4	4	0	2100	2100	0
10/2/2024 16:10	51301	WIND_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
10/2/2024 16:13	46001	BERW_T1	0	0	0	0	0	0	-0.51	-0.59	0	0	0	0	0	0
10/2/2024 16:13	46005	BERW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 16:14	20603	GRWO_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
10/2/2024 16:17	65003	NEFF_T2	4	4	0	0.15	0.28	0.13	-1.73	-1.77	2	2	0	1800	1800	0
10/2/2024 16:18	64701	LITI_T1	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
10/2/2024 16:21	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/2/2024 16:28	62106	ELAN_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
10/2/2024 16:28	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 16:29	62105	ELAN_T1	0	0	0	0	0	0	0.44	0.51	0	0	0	0	0	0
10/2/2024 16:29	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 16:30	62106	ELAN_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
10/2/2024 16:30	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 16:31	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 16:32	63501	HEID_TBK1-2	26	1	-25	0.28	0.7	0.42	-0.31	-0.3	1	1	0	900	900	0
10/2/2024 16:50	61002	DONV_T2	0	0	0	0	0	0	-1.04	-1.03	2	2	0	1200	1200	0
10/2/2024 16:58	52202	DEVO_T2	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
10/2/2024 17:00	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.17	2	1	-1	900	600	-300
10/2/2024 17:00	64204	KINZ_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
10/2/2024 17:00	64202	KINZ_T1	1	3	2	0.2	0.9	0.7	0	0	0	0	0	0	0	0
10/2/2024 17:01	52202	DEVO_T2	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
10/2/2024 17:05	65003	NEFF_T2	4	4	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
10/2/2024 17:05	65001	NEFF_T2	0	0	0	0	0	0	-0.69	-0.62	1	1	0	1200	1200	0
10/2/2024 17:06	55002	NEWP_T1	5	6	1	1.48	1.28	-0.2	0	0	0	0	0	0	0	0
10/2/2024 17:06	55001	NEWP_T1	1	1	0	0.4	0.5	0.1	-0.09	-0.09	0	0	0	0	0	0
10/2/2024 17:07	65001	NEFF_T2	0	0	0	0	0	0	-0.62	-0.7	1	1	0	1200	1200	0
10/2/2024 17:07	65003	NEFF_T2	4	4	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
10/2/2024 17:23	67503	WEWI_T2	1	1	0	8.5	8.2	-0.3	0	0	0	0	0	0	0	0
10/2/2024 17:23	67502	WEWI_T2	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
10/2/2024 17:34	54502	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/2/2024 17:34	54505	ENOL_T2	1	1	0	0.8	0.8	0	-1.34	-1.34	1	1	0	600	600	0
10/2/2024 20:07	15202	SFAR_T1	0	0	0	0	0	0	-0.13	-0.15	1	1	0	1200	1200	0
10/2/2024 20:08	66901	SHIL_T2	0	26	26	0	0.12	0.12	0	0	0	0	0	0	0	0
10/2/2024 20:08	66903	SHIL_T2	0	0	0	0	0	0	0.93	-0.93	0	0	0	0	0	0
10/2/2024 20:10	57403	SPAN_T1	12	29	17	0.2	0.26	0.06	0	0	0	0	0	0	0	0
10/2/2024 20:10	57401	SPAN_T1	2	2	0	0.45	1	0.55	-0.82	-0.87	1	1	0	600	600	0
10/2/2024 20:14	16301	ALPA_T1	0	0	0	0	0	0	0.11	0.06	0	0	0	0	0	0
10/2/2024 20:14	17002	RIRO_T2	41	114	73	0.16	0.19	0.03	0.42	0.44	0	0	0	0	0	0
10/2/2024 20:15	11504	FREE_T1	0	0	0	0	0	0	-1.45	-1.43	1	1	0	1200	1200	0
10/2/2024 20:15	50107	HARR_T3	1	2	1	6.3	6.3	0	0	0	0	0	0	0	0	0
10/2/2024 20:15	50105	HARR_T3	6	7	1	6	5.88	-0.12	0	0	0	0	0	0	0	0
10/2/2024 20:15	55101	WERT_T1	0	0	0	0	0	0	-1.1	-1.07	1	1	0	600	600	0
10/2/2024 20:15	56501	ROCK_T2	2	3	1	0.15	0.23	0.08	0.13	0.16	0	0	0	0	0	0
10/2/2024 20:15	50102	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 20:15	50201	HARR_T3	1	1	0	0.3	0.3	0	0	0	1	1	0	1200	1200	0
10/2/2024 20:15	50103	HARR_T3	2	2	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
10/2/2024 20:15	50202	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/2/2024 20:15	48901	FOSP_T2	0	0	0	0	0	0	-0.41	-0.41	1	1	0	600	600	0
10/2/2024 20:16	51603	DUKE_T1	0	0	0	0	0	0	167.92	167.92	0	0	0	0	0	0
10/2/2024 20:16	16101	BING_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
10/2/2024 20:17	18001	ZION_T1	2	2	0	9.75	9.85	0.1	0	0	0	0	0	0	0	0
10/2/2024 20:17	48901	FOSP_T2	0	0	0	0	0	0	-0.41	-0.41	1	1	0	600	600	0
10/2/2024 20:17	66502	SMAN_T2	0	0	0	0	0	0	-0.12	-0.05	0	0	0	0	0	0
10/2/2024 20:17	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
10/2/2024 20:17	66504	SMAN_T2	0	0	0	0	0	0	-0.61	-0.68	0	0	0	0	0	0
10/2/2024 20:17	11202	ELHE_T2	0	0	0	0	0	0	0.48	0.46	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/2/2024 20:18	50107	HARR_T3	1	2	1	6.3	6.3	0	0	0	0	0	0	0	0	0
10/2/2024 20:18	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
10/2/2024 20:18	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 20:18	65001	NEFF_T2	0	19	19	0	0.11	0.11	0	0	0	0	0	0	0	0
10/2/2024 20:18	65004	NEFF_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
10/2/2024 20:18	50102	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 20:18	50103	HARR_T3	2	2	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
10/2/2024 20:18	15203	SFAR_T2	0	0	0	0	0	0	-1.17	-1.15	0	0	0	0	0	0
10/2/2024 20:18	50201	HARR_T3	1	1	0	0.3	0.3	0	0	0	1	1	0	1200	1200	0
10/2/2024 20:18	50105	HARR_T3	6	7	1	6	5.88	-0.12	0	0	0	0	0	0	0	0
10/2/2024 20:18	50202	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/2/2024 20:19	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
10/2/2024 20:19	15202	SFAR_T1	0	0	0	0	0	0	-0.13	-0.15	1	1	0	1200	1200	0
10/2/2024 20:19	48901	FOSP_T2	0	0	0	0	0	0	-0.41	-0.41	1	1	0	600	600	0
10/2/2024 20:19	15203	SFAR_T2	0	0	0	0	0	0	-1.17	-1.15	0	0	0	0	0	0
10/2/2024 20:20	67605	WARW_T1	2	7	5	0.15	0.27	0.12	0	0	0	0	0	0	0	0
10/2/2024 20:20	52202	DEVO_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
10/2/2024 20:20	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
10/2/2024 20:20	67603	WARW_T1	0	0	0	0	0	0	-0.01	-0.06	0	0	0	0	0	0
10/2/2024 20:21	67605	WARW_T1	2	7	5	0.15	0.27	0.12	-1.1	-1.11	0	0	0	0	0	0
10/2/2024 20:21	28704	HAML_T2	0	3	3	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
10/2/2024 20:21	51603	DUKE_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
10/2/2024 20:21	28703	HAML_T2	3	3	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
10/2/2024 20:21	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 20:21	48901	FOSP_T2	0	0	0	0	0	0	-0.41	-0.41	1	1	0	600	600	0
10/2/2024 20:22	50624	CCTY_T2	2	2	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
10/2/2024 20:22	50623	CCTY_T2	5	5	0	5.2	5.38	0.18	0	0	0	0	0	0	0	0
10/2/2024 20:22	50625	CCTY_T2	6	6	0	2.28	2.22	-0.06	0	0	0	0	0	0	0	0
10/2/2024 20:22	14801	TREI_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
10/2/2024 20:22	64302	LINC_T2	0	0	0	0	0	0	1.17	1.07	0	0	0	0	0	0
10/2/2024 20:22	14204	EALL_T2	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
10/2/2024 20:22	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 20:23	44502	HAMI_T2	1	1	0	2.9	3.1	0.2	0	0	0	0	0	0	0	0
10/2/2024 20:23	54601	SUMM_T2	8	9	1	0.38	0.42	0.04	-1.8	-1.8	2	2	0	2100	2100	0
10/2/2024 20:23	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 20:23	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
10/2/2024 20:23	65206	PRIN_T4	3	7	4	1.37	1.07	-0.3	0	0	0	0	0	0	0	0
10/2/2024 20:23	44505	HAMI_T2	0	0	0	0	0	0	0.55	0.51	0	0	0	0	0	0
10/2/2024 20:23	65207	PRIN_T4	57	63	6	0.16	0.19	0.03	0	0	2	1	-1	1800	1200	-600
10/2/2024 20:23	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
10/2/2024 20:23	10702	CATA_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
10/2/2024 20:23	64704	LITI_T1	0	0	0	0	0	0	0.26	0.4	1	1	0	600	600	0
10/2/2024 20:24	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
10/2/2024 20:24	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/2/2024 20:24	10702	CATA_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
10/2/2024 20:24	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
10/2/2024 20:24	63305	GREE_T1	0	0	0	0	0	0	-1.13	-1.19	0	0	0	0	0	0
10/2/2024 20:24	10705	CATA_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
10/2/2024 20:24	10705	CATA_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
10/2/2024 20:24	10705	CATA_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
10/2/2024 20:24	10705	CATA_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
10/2/2024 20:24	54504	ENOL_T2	0	0	0	0	0	0	-1.12	-1.13	1	1	0	600	600	0
10/2/2024 20:24	66504	SMAN_T2	0	0	0	0	0	0	-0.34	-0.4	0	0	0	0	0	0
10/2/2024 20:24	23201	HIRU_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 20:24	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
10/2/2024 20:24	23203	HIRU_T2	0	1	1	0	0.1	0.1	0.06	0.08	0	0	0	0	0	0
10/2/2024 20:24	67503	WEWI_T2	1	1	0	7.5	7.9	0.4	-0.21	-0.22	0	0	0	0	0	0
10/2/2024 20:25	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 20:25	10702	CATA_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
10/2/2024 20:25	10705	CATA_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
10/2/2024 20:25	24202	PROV_T4	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/2/2024 20:25	52502	PROG_T2	0	0	0	0	0	0	-0.63	-0.63	1	1	0	900	900	0
10/2/2024 20:25	11504	FREE_T1	0	0	0	0	0	0	-1.43	-1.5	1	1	0	1200	1200	0
10/2/2024 20:25	65502	MOJO_T2	0	71	71	0	0.11	0.11	0	0	0	0	0	0	0	0
10/2/2024 20:25	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
10/2/2024 20:25	65503	MOJO_T2	0	6	6	0	0.1	0.1	-0.22	-0.26	0	0	0	0	0	0
10/2/2024 20:25	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 20:25	24206	PROV_T4	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
10/2/2024 20:26	54603	SUMM_T2	0	0	0	0	0	0	0.31	0.26	1	1	0	900	900	0
10/2/2024 20:26	61301	EARL_T1	0	0	0	0	0	0	-0.5	-0.5	1	1	0	900	900	0
10/2/2024 20:26	10702	CATA_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
10/2/2024 20:26	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
10/2/2024 20:26	54601	SUMM_T2	8	9	1	0.38	0.42	0.04	-1.8	-1.8	2	2	0	2100	2100	0
10/2/2024 20:26	56501	ROCK_T2	2	3	1	0.15	0.23	0.08	0.16	0.15	0	0	0	0	0	0
10/2/2024 20:26	50102	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 20:26	50202	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/2/2024 20:26	12206	FOGE_T2	0	0	0	0	0	0	-0.68	-0.67	2	2	0	2100	2100	0
10/2/2024 20:26	50107	HARR_T3	1	2	1	6.3	6.3	0	0	0	0	0	0	0	0	0
10/2/2024 20:26	50105	HARR_T3	6	7	1	6	5.88	-0.12	0	0	0	0	0	0	0	0
10/2/2024 20:26	50103	HARR_T3	2	2	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
10/2/2024 20:26	50201	HARR_T3	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/2/2024 20:26	10705	CATA_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
10/2/2024 20:27	57104	SPHI_T2	1	1	0	0.7	0.4	-0.3	-1.08	-1.11	0	0	0	0	0	0
10/2/2024 20:27	14801	TREI_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
10/2/2024 20:27	57106	SPHI_T2	3	3	0	1.63	1.87	0.24	0	0	0	0	0	0	0	0
10/2/2024 20:27	11202	ELHE_T2	0	0	0	0	0	0	0.46	0.47	1	1	0	1200	1200	0
10/2/2024 20:27	57101	SPHI_T2	6	6	0	1.15	1.52	0.37	0	0	0	0	0	0	0	0
10/2/2024 20:28	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/2/2024 20:28	65001	NEFF_T2	0	19	19	0	0.11	0.11	-0.75	-0.78	1	1	0	1200	1200	0
10/2/2024 20:28	13302	ORVI_T2	0	0	0	0	0	0	1.08	1.13	0	0	0	0	0	0
10/2/2024 20:28	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 20:28	66903	SHIL_T2	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
10/2/2024 20:28	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	-1.31	-1.31	1	1	0	600	600	0
10/2/2024 20:28	63501	HEID_TBK1-2	1	20	19	0.6	0.18	-0.42	0.49	0.48	0	0	0	0	0	0
10/2/2024 20:28	14801	TREI_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
10/2/2024 20:28	66901	SHIL_T2	0	68	68	0	0.11	0.11	0	0	0	0	0	0	0	0
10/2/2024 20:29	57403	SPAN_T1	15	49	34	0.23	0.3	0.07	0	0	0	0	0	0	0	0
10/2/2024 20:29	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 20:29	57401	SPAN_T1	2	4	2	1	1	0	-0.87	-0.84	1	1	0	600	600	0
10/2/2024 20:29	23201	HIRU_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 20:29	14802	TREI_T2	0	0	0	0	0	0	0.49	0.4	0	0	0	0	0	0
10/2/2024 20:29	40101	HUNT_T2	2	1	-1	2	0	-2	0	0	0	0	0	0	0	0
10/2/2024 20:29	23203	HIRU_T2	0	1	1	0	0.1	0.1	0.06	0.08	0	0	0	0	0	0
10/2/2024 20:29	11202	ELHE_T2	0	0	0	0	0	0	0.46	0.47	1	1	0	1200	1200	0
10/2/2024 20:29	62105	ELAN_T1	0	6	6	0	0.1	0.1	0.47	0.53	0	0	0	0	0	0
10/2/2024 20:29	62101	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/2/2024 20:29	63501	HEID_TBK1-2	1	20	19	0.6	0.18	-0.42	0.49	0.48	0	0	0	0	0	0
10/2/2024 20:29	54603	SUMM_T2	0	0	0	0	0	0	0.31	0.26	1	1	0	900	900	0
10/2/2024 20:29	54601	SUMM_T2	8	9	1	0.38	0.42	0.04	0	0	0	0	0	0	0	0
10/2/2024 20:29	63305	GREE_T1	0	0	0	0	0	0	-1.13	-1.19	0	0	0	0	0	0
10/2/2024 20:29	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 20:29	44502	HAMI_T2	1	1	0	2.9	3.1	0.2	0	0	0	0	0	0	0	0
10/2/2024 20:29	44505	HAMI_T2	0	0	0	0	0	0	0.55	0.51	0	0	0	0	0	0
10/2/2024 20:29	62106	ELAN_T1	2	0	-2	0.1	0	-0.1	0.01	-0.02	0	0	0	0	0	0
10/2/2024 20:29	67505	WEWI_T1	0	0	0	0	0	0	-0.19	-0.1	1	1	0	900	900	0
10/2/2024 20:30	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 20:30	65503	MOJO_T2	0	8	8	0	0.1	0.1	-0.22	-0.26	0	0	0	0	0	0
10/2/2024 20:30	65001	NEFF_T2	1	22	21	0.1	0.1	0	-0.75	-0.78	1	1	0	1200	1200	0
10/2/2024 20:30	54505	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
10/2/2024 20:30	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 20:30	64704	LITI_T1	0	0	0	0	0	0	0.26	0.4	1	1	0	600	600	0
10/2/2024 20:30	64701	LITI_T1	0	0	0	0	0	0	0.17	0.26	0	0	0	0	0	0
10/2/2024 20:30	54503	ENOL_T2	0	0	0	0	0	0	-0.35	-0.37	1	1	0	600	600	0
10/2/2024 20:30	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 20:30	67503	WEWI_T2	1	1	0	7.4	8.2	0.8	0	0	0	0	0	0	0	0
10/2/2024 20:30	10805	CHHI_T2	1	1	0	7.6	7.4	-0.2	-1.34	-1.3	1	1	0	600	600	0
10/2/2024 20:30	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/2/2024 20:30	67502	WEWI_T2	0	0	0	0	0	0	-0.43	-0.4	0	0	0	0	0	0
10/2/2024 20:30	54601	SUMM_T2	8	12	4	0.38	0.52	0.14	-1.8	-1.8	2	2	0	2100	2100	0
10/2/2024 20:30	65502	MOJO_T2	0	75	75	0	0.11	0.11	0	0	0	0	0	0	0	0
10/2/2024 20:31	50201	HARR_T3	1	1	0	0.3	0.2	-0.1	0	0	1	1	0	1200	1200	0
10/2/2024 20:31	40602	PIGR_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
10/2/2024 20:31	50102	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/2/2024 20:31	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/2/2024 20:31	50105	HARR_T3	7	7	0	5.96	5.93	-0.03	0	0	0	0	0	0	0	0
10/2/2024 20:31	50202	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/2/2024 20:31	50103	HARR_T3	2	2	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
10/2/2024 20:31	54502	ENOL_T2	0	1	1	0	0.3	0.3	-1.32	-1.36	0	0	0	0	0	0
10/2/2024 20:31	16301	ALPA_T1	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
10/2/2024 20:31	50107	HARR_T3	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
10/2/2024 20:31	67503	WEWI_T2	1	1	0	7.4	8.2	0.8	-0.21	-0.22	0	0	0	0	0	0
10/2/2024 20:31	54505	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
10/2/2024 20:31	40601	PIGR_T1	18	197	179	0.11	0.34	0.23	0	0	0	0	0	0	0	0
10/2/2024 20:32	50107	HARR_T3	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
10/2/2024 20:32	40602	PIGR_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
10/2/2024 20:32	50105	HARR_T3	7	7	0	5.96	5.93	-0.03	0	0	0	0	0	0	0	0
10/2/2024 20:32	40601	PIGR_T1	18	197	179	0.11	0.34	0.23	-0.18	-0.15	0	0	0	0	0	0
10/2/2024 20:32	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 20:32	10206	ALLE_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
10/2/2024 20:32	50103	HARR_T3	2	2	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
10/2/2024 20:32	50202	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/2/2024 20:32	50201	HARR_T3	1	1	0	0.3	0.2	-0.1	0	0	1	1	0	1200	1200	0
10/2/2024 20:32	50102	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/2/2024 20:32	20201	JERM_T1	0	0	0	0	0	0	1.7	1.78	0	0	0	0	0	0
10/2/2024 20:32	10102	ALLE_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
10/2/2024 20:33	63802	HEMP_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
10/2/2024 20:33	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/2/2024 20:33	66502	SMAN_T2	0	0	0	0	0	0	-0.15	-0.28	0	0	0	0	0	0
10/2/2024 20:33	66505	SMAN_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
10/2/2024 20:33	16301	ALPA_T1	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
10/2/2024 20:33	63804	HEMP_T1	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
10/2/2024 20:33	66902	SHIL_T2	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
10/2/2024 20:33	65502	MOJO_T2	0	75	75	0	0.11	0.11	-0.71	-0.7	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/2/2024 20:33	65503	MOJO_T2	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 20:33	10801	CHHI_T1	0	0	0	0	0	0	-1.36	-1.36	2	2	0	1500	1500	0
10/2/2024 20:33	66901	SHIL_T2	26	157	131	0.12	0.17	0.05	0	0	0	0	0	0	0	0
10/2/2024 20:34	46602	LACR_T1	0	1	1	0	0.2	0.2	-0.92	-0.95	0	0	0	0	0	0
10/2/2024 20:34	13501	MCMI_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
10/2/2024 20:34	64201	KINZ_T1	2	7	5	0.6	0.5	-0.1	-0.62	-0.65	3	3	0	1500	1500	0
10/2/2024 20:34	45702	LIND_T2	1	1	0	0.2	0.6	0.4	-0.52	-0.5	0	0	0	0	0	0
10/2/2024 20:34	64203	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 20:34	17401	FOHI_T1	0	0	0	0	0	0	-0.97	-0.96	0	0	0	0	0	0
10/2/2024 20:34	64204	KINZ_T1	1	17	16	1.2	0.22	-0.98	0	0	0	0	0	0	0	0
10/2/2024 20:34	64202	KINZ_T1	2	9	7	0.15	0.33	0.18	0	0	0	0	0	0	0	0
10/2/2024 20:35	66901	SHIL_T2	26	157	131	0.12	0.17	0.05	-1.72	-1.71	1	1	0	1200	1200	0
10/2/2024 20:35	63802	HEMP_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
10/2/2024 20:35	63804	HEMP_T1	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
10/2/2024 20:35	17901	BART_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 20:35	58402	MORO_T1	0	0	0	0	0	0	-0.24	0.16	2	1	-1	1500	900	-600
10/2/2024 20:35	56802	BENV_T2	1	1	0	0.4	0.5	0.1	-0.22	-0.25	0	0	0	0	0	0
10/2/2024 20:35	10702	CATA_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
10/2/2024 20:35	40601	PIGR_T1	18	197	179	0.11	0.34	0.23	-0.18	-0.15	0	0	0	0	0	0
10/2/2024 20:35	64802	MONE_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
10/2/2024 20:35	16301	ALPA_T1	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
10/2/2024 20:35	46001	BERW_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
10/2/2024 20:35	54601	SUMM_T2	8	12	4	0.38	0.52	0.14	-1.8	-1.8	2	2	0	2100	2100	0
10/2/2024 20:35	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 20:35	44502	HAMI_T2	1	1	0	2.9	3.2	0.3	0	0	0	0	0	0	0	0
10/2/2024 20:35	40602	PIGR_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
10/2/2024 20:35	10701	CATA_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
10/2/2024 20:36	55001	NEWP_T1	0	1	1	0	0.3	0.3	-0.12	-0.14	0	0	0	0	0	0
10/2/2024 20:36	47403	PENS_T1	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/2/2024 20:36	64305	LINC_T1	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
10/2/2024 20:36	55002	NEWP_T1	6	6	0	1.03	1.32	0.29	0	0	0	0	0	0	0	0
10/2/2024 20:36	52202	DEVO_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
10/2/2024 20:36	61002	DONV_T2	0	0	0	0	0	0	-0.61	-0.58	2	1	-1	1200	600	-600
10/2/2024 20:36	67605	WARW_T1	3	13	10	0.2	0.48	0.28	-2.22	-2.33	0	0	0	0	0	0
10/2/2024 20:36	17901	BART_T1	0	0	0	0	0	0	1.18	1.24	1	1	0	1200	1200	0
10/2/2024 20:36	56501	ROCK_T2	3	3	0	0.17	0.3	0.13	0.16	0.15	0	0	0	0	0	0
10/2/2024 20:36	13303	ORVI_T1	0	0	0	0	0	0	-0.34	0.97	0	0	0	0	0	0
10/2/2024 20:36	57401	SPAN_T1	2	6	4	1	0.48	-0.52	-1.74	-1.68	2	2	0	1200	1200	0
10/2/2024 20:36	57403	SPAN_T1	29	159	130	0.26	0.31	0.05	0	0	0	0	0	0	0	0
10/2/2024 20:36	47401	PENS_T1	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
10/2/2024 20:37	28102	TWLA_T2	6	11	5	0.7	0.39	-0.31	0.19	0.21	0	0	0	0	0	0
10/2/2024 20:37	60701	BREC_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
10/2/2024 20:37	51301	WIND_T1	0	0	0	0	0	0	0.53	0.59	0	0	0	0	0	0
10/2/2024 20:37	42201	SHEN_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
10/2/2024 20:37	67502	WEWI_T2	1	1	0	7.4	8.2	0.8	0	0	0	0	0	0	0	0
10/2/2024 20:37	63501	HEID_TBK1-2	1	20	19	1.3	0.18	-1.12	0.48	0.51	0	0	0	0	0	0
10/2/2024 20:37	67502	WEWI_T2	0	0	0	0	0	0	-0.4	-0.45	0	0	0	0	0	0
10/2/2024 20:37	66502	SMAN_T2	0	0	0	0	0	0	-0.09	-0.14	0	0	0	0	0	0
10/2/2024 20:37	66505	SMAN_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
10/2/2024 20:38	22002	BOHE_T1	4	6	2	0.2	0.3	0.1	0.29	0.27	0	0	0	0	0	0
10/2/2024 20:38	46001	BERW_T1	0	0	0	0	0	0	0.25	0.2	0	0	0	0	0	0
10/2/2024 20:38	67503	WEWI_T2	1	1	0	7.4	8.2	0.8	0	0	0	0	0	0	0	0
10/2/2024 20:38	55002	NEWP_T1	6	6	0	1.03	1.32	0.29	-0.25	-0.25	0	0	0	0	0	0
10/2/2024 20:38	67502	WEWI_T2	0	0	0	0	0	0	-0.4	-0.45	0	0	0	0	0	0
10/2/2024 20:38	15603	NSTR_T2	10	0	-10	0.12	0	-0.12	-0.32	-0.32	0	0	0	0	0	0
10/2/2024 20:38	22001	BOHE_T1	97	151	54	0.18	0.25	0.07	0.22	0.22	0	0	0	0	0	0
10/2/2024 20:38	22003	BOHE_T1	316	365	49	0.77	0.72	-0.05	0	0	0	0	0	0	0	0
10/2/2024 20:38	15601	NSTR_T2	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0	0
10/2/2024 20:38	60701	BREC_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
10/2/2024 20:38	55001	NEWP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/2/2024 20:39	67001	STHI_T2	253	451	198	0.13	0.19	0.06	0	0	0	0	0	0	0	0
10/2/2024 20:39	21206	ECAR_T2	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0	0
10/2/2024 20:39	40602	PIGR_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
10/2/2024 20:39	45902	AUBU_T1	0	0	0	0	0	0	-0.99	-0.98	1	1	0	600	600	0
10/2/2024 20:39	46004	BERW_T2	0	0	0	0	0	0	-0.24	-0.17	0	0	0	0	0	0
10/2/2024 20:39	61001	DONV_T1	0	0	0	0	0	0	0.17	0.09	0	0	0	0	0	0
10/2/2024 20:39	66901	SHIL_T2	26	157	131	0.12	0.17	0.05	-1.71	-1.71	1	1	0	1200	1200	0
10/2/2024 20:39	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/2/2024 20:39	40601	PIGR_T1	18	197	179	0.11	0.34	0.23	0	0	0	0	0	0	0	0
10/2/2024 20:39	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/2/2024 20:39	21204	ECAR_T2	1	1	0	0.6	0.9	0.3	-0.74	-0.73	0	0	0	0	0	0
10/2/2024 20:39	63302	GREE_T1	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
10/2/2024 20:39	67002	STHI_T2	3	38	35	0.1	0.13	0.03	0.67	0.74	0	0	0	0	0	0
10/2/2024 20:39	65003	NEFF_T2	0	1	1	0	0.1	0.1	-0.7	-0.61	1	1	0	600	600	0
10/2/2024 20:39	65001	NEFF_T2	1	22	21	0.1	0.1	0	0	0	0	0	0	0	0	0
10/2/2024 20:39	64902	MILL_T2	0	0	0	0	0	0	-0.54	-0.6	1	1	0	900	900	0
10/2/2024 20:40	64202	KINZ_T1	2	9	7	0.15	0.33	0.18	0	0	0	0	0	0	0	0
10/2/2024 20:40	24801	VALM_T1	0	0	0	0	0	0	-0.38	-0.33	0	0	0	0	0	0
10/2/2024 20:40	67002	STHI_T2	3	38	35	0.1	0.13	0.03	0.67	0.74	0	0	0	0	0	0
10/2/2024 20:40	64201	KINZ_T1	2	7	5	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
10/2/2024 20:40	66901	SHIL_T2	26	157	131	0.12	0.17	0.05	0	0	0	0	0	0	0	0
10/2/2024 20:40	57401	SPAN_T1	2	6	4	1	0.48	-0.52	0	0	0	0	0	0	0	0
10/2/2024 20:40	57403	SPAN_T1	29	159	130	0.26	0.31	0.05	0.05	0.05	0	0	0	0	0	0
10/2/2024 20:40	67401	WAKE_T2	0	0	0	0	0	0	-0.97	-1.01	0	0	0	0	0	0
10/2/2024 20:40	66903	SHIL_T2	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
10/2/2024 20:40	25402	LAHA_T2	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
10/2/2024 20:40	46001	BERW_T1	0	0	0	0	0	0	0.25	0.2	0	0	0	0	0	0
10/2/2024 20:40	64203	KINZ_T1	0	1	1	0	0.1	0.1	-0.32	-0.27	1	1	0	600	600	0
10/2/2024 20:40	67001	STHI_T2	253	451	198	0.13	0.19	0.06	0	0	0	0	0	0	0	0
10/2/2024 20:40	64204	KINZ_T1	1	17	16	1.2	0.22	-0.98	0	0	0	0	0	0	0	0
10/2/2024 20:40	64903	MILL_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
10/2/2024 20:40	13303	ORVI_T1	0	0	0	0	0	0	0.97	1.23	0	0	0	0	0	0
10/2/2024 20:41	40601	PIGR_T1	18	197	179	0.11	0.34	0.23	0	0	0	0	0	0	0	0
10/2/2024 20:41	46004	BERW_T2	0	0	0	0	0	0	-0.24	-0.17	0	0	0	0	0	0
10/2/2024 20:41	60701	BREC_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
10/2/2024 20:41	67203	TEHI_T1	0	1	1	0	0	0	2.26	2.28	2	2	0	1500	1500	0
10/2/2024 20:41	66505	SMAN_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
10/2/2024 20:41	65207	PRIN_T4	63	17	-46	0.19	0.21	0.02	0	0	0	0	0	0	0	0
10/2/2024 20:41	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 20:41	40602	PIGR_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
10/2/2024 20:41	66504	SMAN_T2	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
10/2/2024 20:41	65206	PRIN_T4	7	10	3	1.07	0.1	-0.97	0	0	0	0	0	0	0	0
10/2/2024 20:42	67203	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 20:42	67201	TEHI_T1	0	0	0	0	0	0	-0.08	-0.1	1	1	0	900	900	0
10/2/2024 20:42	17901	BART_T1	0	0	0	0	0	0	1.18	1.24	1	1	0	1200	1200	0
10/2/2024 20:42	57401	SPAN_T1	2	6	4	1	0.48	-0.52	0	0	0	0	0	0	0	0
10/2/2024 20:42	57403	SPAN_T1	29	159	130	0.26	0.31	0.05	0.05	0.05	0	0	0	0	0	0
10/2/2024 20:42	67001	STHI_T2	253	451	198	0.13	0.19	0.06	0.1	0.1	0	0	0	0	0	0
10/2/2024 20:42	67002	STHI_T2	3	38	35	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/2/2024 20:42	15702	TANN_T2	29	6	-23	0.13	0.1	-0.03	-0.41	-0.42	0	0	0	0	0	0
10/2/2024 20:42	46101	MACI_T2	0	0	0	0	0	0	-0.56	-0.6	1	1	0	1200	1200	0
10/2/2024 20:42	64902	MILL_T2	0	0	0	0	0	0	-0.54	-0.6	1	1	0	900	900	0
10/2/2024 20:42	60201	ATGL_T2	0	0	0	0	0	0	-0.02	-0.14	0	0	0	0	0	0
10/2/2024 20:42	15703	TANN_T2	1	1	0	5	5.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 20:43	45902	AUBU_T1	0	0	0	0	0	0	-0.99	-0.98	1	1	0	600	600	0
10/2/2024 20:43	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 20:43	63501	HEID_TBK1-2	1	20	19	1.3	0.18	-1.12	0.48	0.51	0	0	0	0	0	0
10/2/2024 20:43	64202	KINZ_T1	2	9	7	0.15	0.33	0.18	0	0	0	0	0	0	0	0
10/2/2024 20:43	67001	STHI_T2	253	451	198	0.13	0.19	0.06	0.1	0.1	0	0	0	0	0	0
10/2/2024 20:43	64204	KINZ_T1	1	17	16	1.2	0.22	-0.98	0	0	0	0	0	0	0	0
10/2/2024 20:43	24102	EHAZ_T1	0	0	0	0	0	0	0.21	0.25	0	0	0	0	0	0
10/2/2024 20:43	60701	BREC_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
10/2/2024 20:43	64203	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 20:43	67402	WAKE_T2	0	0	0	0	0	0	-0.36	-0.38	1	1	0	600	600	0
10/2/2024 20:43	24105	EHAZ_T1	4	4	0	6.35	6.23	-0.12	0	0	0	0	0	0	0	0
10/2/2024 20:43	64201	KINZ_T1	2	7	5	0.6	0.5	-0.1	-0.65	-0.66	3	3	0	1500	1500	0
10/2/2024 20:43	67002	STHI_T2	3	38	35	0.1	0.13	0.03	2.7	2.96	0	0	0	0	0	0
10/2/2024 20:44	43802	SWIL_T1	0	0	0	0	0	0	-0.02	-0.04	1	1	0	600	600	0
10/2/2024 20:44	58401	MORO_T1	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
10/2/2024 20:44	67001	STHI_T2	253	451	198	0.13	0.19	0.06	0	0	0	0	0	0	0	0
10/2/2024 20:44	66901	SHIL_T2	26	157	131	0.12	0.17	0.05	0	0	0	0	0	0	0	0
10/2/2024 20:44	67002	STHI_T2	3	38	35	0.1	0.13	0.03	1.35	1.48	0	0	0	0	0	0
10/2/2024 20:44	24104	EHAZ_T1	0	0	0	0	0	0	-0.88	-0.89	1	1	0	1200	1200	0
10/2/2024 20:44	44801	EDAN_T2	109	160	51	0.48	0.41	-0.07	-1.64	-1.62	0	0	0	0	0	0
10/2/2024 20:44	24105	EHAZ_T1	4	4	0	6.35	6.23	-0.12	0	0	0	0	0	0	0	0
10/2/2024 20:44	13704	SCHN_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
10/2/2024 20:44	22001	BOHE_T1	97	151	54	0.18	0.25	0.07	0	0	0	0	0	0	0	0
10/2/2024 20:44	22003	BOHE_T1	316	365	49	0.77	0.72	-0.05	-0.21	-0.2	0	0	0	0	0	0
10/2/2024 20:44	43801	SWIL_T1	2	5	3	3.3	1.38	-1.92	0	0	0	0	0	0	0	0
10/2/2024 20:44	22002	BOHE_T1	4	6	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/2/2024 20:45	67502	WEWI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/2/2024 20:45	13704	SCHN_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
10/2/2024 20:45	65502	MOJO_T2	71	33	-38	0.11	0.1	-0.01	-0.7	-0.77	0	0	0	0	0	0
10/2/2024 20:45	67503	WEWI_T2	1	1	0	7.9	8.2	0.3	-0.22	-0.12	0	0	0	0	0	0
10/2/2024 20:45	63801	HEMP_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
10/2/2024 20:45	63804	HEMP_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
10/2/2024 20:45	46004	BERW_T2	0	0	0	0	0	0	-0.24	-0.17	0	0	0	0	0	0
10/2/2024 20:45	65503	MOJO_T2	6	4	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
10/2/2024 20:46	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
10/2/2024 20:46	46101	MACI_T2	0	0	0	0	0	0	-0.56	-0.6	1	1	0	1200	1200	0
10/2/2024 20:46	46102	MACI_T1	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
10/2/2024 20:46	66903	SHIL_T2	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
10/2/2024 20:46	66901	SHIL_T2	61	194	133	0.11	0.18	0.07	0	0	0	0	0	0	0	0
10/2/2024 20:47	20603	GRWO_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
10/2/2024 20:47	58401	MORO_T1	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
10/2/2024 20:48	21502	CEAV_T2	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
10/2/2024 20:48	21501	CEAV_T2	0	0	0	0	0	0	-0.17	-0.17	1	1	0	1200	1200	0
10/2/2024 20:48	63804	HEMP_T1	1	1	0	5.2	5.3	0.1	0.86	0.88	0	0	0	0	0	0
10/2/2024 20:49	66903	SHIL_T2	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
10/2/2024 20:49	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 20:49	66901	SHIL_T2	61	194	133	0.11	0.18	0.07	-1.71	-1.71	1	1	0	1200	1200	0
10/2/2024 20:51	67402	WAKE_T2	0	0	0	0	0	0	-0.38	-0.42	1	1	0	600	600	0
10/2/2024 20:52	55002	NEWP_T1	6	6	0	1.08	1.3	0.22	-0.25	-0.25	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/2/2024 20:52	55001	NEWP_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/2/2024 20:53	65003	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/2/2024 20:53	65001	NEFF_T2	19	17	-2	0.11	0.1	-0.01	-0.81	-0.83	1	1	0	1200	1200	0
10/2/2024 21:00	62101	ELAN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/2/2024 21:00	62105	ELAN_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/2/2024 21:00	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
10/2/2024 21:00	62106	ELAN_T1	1	0	-1	0.1	0	-0.1	0	-0.03	0	0	0	0	0	0
10/2/2024 21:05	65205	PRIN_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
10/2/2024 21:25	67402	WAKE_T2	0	0	0	0	0	0	-0.43	-0.42	1	1	0	600	600	0
10/2/2024 22:14	23201	HIRU_T2	9	0	-9	0.13	0	-0.13	0	0	0	0	0	0	0	0
10/2/2024 22:14	23203	HIRU_T2	10	0	-10	0.12	0	-0.12	0.04	0.06	0	0	0	0	0	0
10/2/2024 22:14	23202	HIRU_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/3/2024 7:08	66302	MCGO_T2	0	414	414	0	0.37	0.37	-1.7	-1.77	1	1	0	600	600	0
10/3/2024 7:39	21501	CEAV_T2	0	0	0	0	0	0	-0.11	-0.09	1	1	0	1200	1200	0
10/3/2024 8:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 8:09	60803	BUCK_T1	12	8	-4	0.4	0.18	-0.22	-1.22	-0.52	1	1	0	600	600	0
10/3/2024 8:09	60801	BUCK_T1	18	0	-18	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/3/2024 8:12	60803	BUCK_T1	12	8	-4	0.4	0.18	-0.22	-1.22	-0.52	1	1	0	600	600	0
10/3/2024 8:12	60801	BUCK_T1	18	0	-18	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/3/2024 8:20	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/3/2024 8:20	64904	MILL_T1	0	0	0	0	0	0	0.42	0.48	0	0	0	0	0	0
10/3/2024 8:20	61102	BERK_T5	689	664	-25	0.79	0.79	0	0	0	0	0	0	0	0	0
10/3/2024 8:22	15603	NSTR_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
10/3/2024 8:23	67501	WEWI_T1	4	25	21	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/3/2024 8:23	67505	WEWI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 8:24	67501	WEWI_T1	4	25	21	0.1	0.12	0.02	-1.2	-1.12	1	1	0	600	600	0
10/3/2024 8:24	67505	WEWI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 8:33	55002	NEWP_T1	6	6	0	1.38	1.57	0.19	-0.27	-0.23	0	0	0	0	0	0
10/3/2024 8:33	64902	MILL_T2	0	0	0	0	0	0	-0.65	-0.61	1	1	0	900	900	0
10/3/2024 8:33	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/3/2024 8:34	55002	NEWP_T1	6	6	0	1.38	1.57	0.19	-0.27	-0.23	0	0	0	0	0	0
10/3/2024 8:34	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/3/2024 8:43	46802	HEPB_T1	1	1	0	1.2	0.4	-0.8	-0.33	-0.32	0	0	0	0	0	0
10/3/2024 8:43	54502	ENOL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
10/3/2024 8:43	54505	ENOL_T2	1	1	0	0.9	0.8	-0.1	-1.38	-1.38	1	1	0	600	600	0
10/3/2024 8:44	50103	HARR_T3	2	1	-1	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
10/3/2024 8:44	50201	HARR_T3	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
10/3/2024 8:44	50105	HARR_T3	6	7	1	5.28	5.72	0.44	0	0	0	0	0	0	0	0
10/3/2024 8:44	63601	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/3/2024 8:44	50107	HARR_T3	1	1	0	6	6.2	0.2	0	0	0	0	0	0	0	0
10/3/2024 8:44	63602	LETO_T1	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
10/3/2024 8:44	14204	EALL_T2	0	0	0	0	0	0	0.57	0.67	0	0	0	0	0	0
10/3/2024 8:47	64701	LITI_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
10/3/2024 8:48	58401	MORO_T1	0	0	0	0	0	0	-1.09	-0.44	1	0	-1	600	0	-600
10/3/2024 8:50	63602	LETO_T1	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
10/3/2024 8:50	64902	MILL_T2	0	0	0	0	0	0	-0.61	0.35	1	0	-1	900	0	-900
10/3/2024 8:50	63601	LETO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/3/2024 8:51	58401	MORO_T1	0	0	0	0	0	0	-1.09	-0.44	1	0	-1	600	0	-600
10/3/2024 8:52	58402	MORO_T1	0	0	0	0	0	0	0.02	-0.05	2	2	0	1500	1500	0
10/3/2024 8:55	60803	BUCK_T1	0	13	13	0	0.2	0.2	-0.49	-0.49	1	1	0	600	600	0
10/3/2024 8:55	60801	BUCK_T1	0	37	37	0	0.22	0.22	0	0	0	0	0	0	0	0
10/3/2024 8:57	60801	BUCK_T1	0	37	37	0	0.22	0.22	0	0	0	0	0	0	0	0
10/3/2024 8:57	60803	BUCK_T1	0	13	13	0	0.2	0.2	-0.49	-0.49	1	1	0	600	600	0
10/3/2024 9:00	63501	HEID_TBK1-2	37	40	3	0.49	0.47	-0.02	-0.29	-0.25	1	1	0	900	900	0
10/3/2024 9:01	12001	HATF_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/3/2024 9:01	12002	HATF_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/3/2024 9:01	12006	HATF_T1	0	0	0	0	0	0	1	1.02	1	1	0	1200	1200	0
10/3/2024 9:05	64901	MILL_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/3/2024 9:05	64904	MILL_T1	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
10/3/2024 9:07	43802	SWIL_T1	0	0	0	0	0	0	-0.24	-0.22	1	1	0	600	600	0
10/3/2024 9:07	43801	SWIL_T1	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
10/3/2024 9:13	63501	HEID_TBK1-2	37	40	3	0.49	0.47	-0.02	-0.25	-0.3	1	1	0	900	900	0
10/3/2024 9:14	63501	HEID_TBK1-2	37	40	3	0.49	0.47	-0.02	-0.25	-0.3	1	1	0	900	900	0
10/3/2024 9:16	40601	PIGR_T1	93	18	-75	0.2	0.22	0.02	0	0	0	0	0	0	0	0
10/3/2024 9:16	40602	PIGR_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
10/3/2024 9:21	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
10/3/2024 9:21	67605	WARW_T1	25	26	1	0.67	0.58	-0.09	0	0	0	0	0	0	0	0
10/3/2024 9:23	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
10/3/2024 9:23	67605	WARW_T1	25	26	1	0.67	0.58	-0.09	0	0	0	0	0	0	0	0
10/3/2024 9:23	60801	BUCK_T1	37	20	-17	0.22	0.14	-0.08	0	0	0	0	0	0	0	0
10/3/2024 9:23	60803	BUCK_T1	13	8	-5	0.2	0.16	-0.04	-0.51	-0.52	1	1	0	600	600	0
10/3/2024 9:25	45502	DERR_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
10/3/2024 9:25	45501	DERR_T2	1	1	0	0.1	0.4	0.3	0.1	0.22	2	2	0	1800	1800	0
10/3/2024 9:25	45302	WBER_T2	0	0	0	0	0	0	0.81	0.85	0	0	0	0	0	0
10/3/2024 9:26	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
10/3/2024 9:26	67605	WARW_T1	25	26	1	0.67	0.58	-0.09	0	0	0	0	0	0	0	0
10/3/2024 9:27	46001	BERW_T1	0	0	0	0	0	0	0.14	0.29	0	0	0	0	0	0
10/3/2024 9:28	45501	DERR_T2	1	1	0	0.1	0.4	0.3	0.1	0.22	2	2	0	1800	1800	0
10/3/2024 9:28	45502	DERR_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
10/3/2024 9:28	11203	ELHE_T1	0	0	0	0	0	0	1.35	1.35	0	0	0	0	0	0
10/3/2024 9:29	54505	ENOL_T2	1	1	0	0.6	0.9	0.3	-1.37	-1.37	1	1	0	600	600	0
10/3/2024 9:29	54502	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/3/2024 9:30	54505	ENOL_T2	1	1	0	0.9	0.9	0	-1.37	-1.37	1	1	0	600	600	0
10/3/2024 9:30	54502	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
10/3/2024 9:36	65603	QVIL_T2	0	0	0	0	0	0	0.54	0.58	0	0	0	0	0	0
10/3/2024 9:39	15001	BLMO_T1	4	6	2	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
10/3/2024 9:41	54504	ENOL_T2	0	0	0	0	0	0	-1.18	-1.18	1	1	0	600	600	0
10/3/2024 9:41	54502	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
10/3/2024 9:41	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
10/3/2024 9:45	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 9:45	63803	HEMP_T1	0	1	1	0	0.2	0.2	0.21	0.12	0	0	0	0	0	0
10/3/2024 9:45	63801	HEMP_T1	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
10/3/2024 9:45	63501	HEID_TBK1-2	39	34	-5	0.56	0.33	-0.23	-0.23	-0.25	1	1	0	900	900	0
10/3/2024 9:45	63804	HEMP_T1	1	1	0	5.7	5.9	0.2	0	0	0	0	0	0	0	0
10/3/2024 9:46	63501	HEID_TBK1-2	39	34	-5	0.56	0.33	-0.23	-0.23	-0.25	1	1	0	900	900	0
10/3/2024 9:47	52002	LING_T2	1	0	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/3/2024 9:47	50105	HARR_T3	6	6	0	5.65	5.73	0.08	0	0	0	0	0	0	0	0
10/3/2024 9:47	50201	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
10/3/2024 9:47	50103	HARR_T3	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
10/3/2024 9:47	50107	HARR_T3	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
10/3/2024 9:47	52004	LING_T2	2	2	0	5.75	5.7	-0.05	0.34	0.35	0	0	0	0	0	0
10/3/2024 9:48	52002	LING_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/3/2024 9:48	52004	LING_T2	2	2	0	5.75	5.7	-0.05	0.34	0.35	0	0	0	0	0	0
10/3/2024 9:49	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/3/2024 9:49	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
10/3/2024 9:49	54506	ENOL_T2	0	0	0	0	0	0	0.16	0.16	1	1	0	600	600	0
10/3/2024 9:51	63801	HEMP_T1	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
10/3/2024 9:51	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 9:51	63803	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/3/2024 9:51	63804	HEMP_T1	1	1	0	5.7	5.9	0.2	1.03	1.06	0	0	0	0	0	0
10/3/2024 9:54	43302	WATS_T2	0	4	4	0	0.43	0.43	0	0	0	0	0	0	0	0
10/3/2024 9:54	43304	WATS_T2	0	0	0	0	0	0	-0.59	-0.54	0	0	0	0	0	0
10/3/2024 9:56	45501	DERR_T2	1	1	0	0.4	0.5	0.1	0.13	0.13	2	2	0	1800	1800	0
10/3/2024 9:58	50107	HARR_T3	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
10/3/2024 9:58	50201	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
10/3/2024 9:58	50103	HARR_T3	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
10/3/2024 9:58	50105	HARR_T3	6	6	0	5.65	5.73	0.08	0	0	0	0	0	0	0	0
10/3/2024 10:00	59002	MIFF_T1	0	6	6	0	0.57	0.57	0	0	0	0	0	0	0	0
10/3/2024 10:00	46505	CRES_T1	0	0	0	0	0	0	0.54	0.36	0	0	0	0	0	0
10/3/2024 10:00	66302	MCGO_T2	48	4	-44	0.14	0.33	0.19	-1.72	-1.58	1	1	0	600	600	0
10/3/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
10/3/2024 10:00	64904	MILL_T1	0	0	0	0	0	0	0.51	0.48	0	0	0	0	0	0
10/3/2024 10:00	54505	ENOL_T2	1	2	1	0.8	0.9	0.1	0	0	0	0	0	0	0	0
10/3/2024 10:00	67503	WEWI_T2	1	1	0	9	9	0	-0.2	-0.12	0	0	0	0	0	0
10/3/2024 10:00	59001	MIFF_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/3/2024 10:00	45501	DERR_T2	1	1	0	0.5	0.5	0	0.13	0.13	2	2	0	1800	1800	0
10/3/2024 10:00	17401	FOHI_T1	0	1	1	0	0	0	-0.96	-0.96	0	0	0	0	0	0
10/3/2024 10:00	54502	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
10/3/2024 10:00	59003	MIFF_T1	0	1	1	0	0.5	0.5	0.55	-0.13	0	0	0	0	0	0
10/3/2024 10:00	67502	WEWI_T2	3	5	2	0.33	0.52	0.19	0	0	0	0	0	0	0	0
10/3/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	0.16	0.2	1	1	0	600	600	0
10/3/2024 10:00	15603	NSTR_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
10/3/2024 10:06	66505	SMAN_T2	0	0	0	0	0	0	0.68	0.62	1	1	0	900	900	0
10/3/2024 10:06	66502	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/3/2024 10:08	64902	MILL_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
10/3/2024 10:09	54601	SUMM_T2	9	11	2	0.42	0.46	0.04	-1.8	-1.82	2	2	0	2100	2100	0
10/3/2024 10:12	41301	FISH_T1	2	2	0	1.55	2.3	0.75	-0.05	-0.03	0	0	0	0	0	0
10/3/2024 10:12	41305	FISH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/3/2024 10:13	41305	FISH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/3/2024 10:13	41301	FISH_T1	2	2	0	1.55	2.3	0.75	-0.05	-0.03	0	0	0	0	0	0
10/3/2024 10:14	46001	BERW_T1	0	0	0	0	0	0	0.13	0.21	0	0	0	0	0	0
10/3/2024 10:15	64302	LINC_T2	0	0	0	0	0	0	1.1	1.29	0	0	0	0	0	0
10/3/2024 10:16	41305	FISH_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
10/3/2024 10:16	41301	FISH_T1	2	2	0	2.3	2.15	-0.15	-0.05	-0.03	0	0	0	0	0	0
10/3/2024 10:16	63501	HEID_TBK1-2	24	25	1	0.27	0.21	-0.06	-0.56	-0.52	2	2	0	1800	1800	0
10/3/2024 10:17	20603	GRWO_T2	0	0	0	0	0	0	-0.6	-0.65	1	1	0	900	900	0
10/3/2024 10:17	58401	MORO_T1	0	0	0	0	0	0	-0.37	-0.3	0	0	0	0	0	0
10/3/2024 10:17	64305	LINC_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
10/3/2024 10:19	63501	HEID_TBK1-2	24	25	1	0.27	0.21	-0.06	-0.28	-0.26	1	1	0	900	900	0
10/3/2024 10:19	25402	LAHA_T2	1	0	-1	0.1	0	-0.1	-0.49	-0.64	0	0	0	0	0	0
10/3/2024 10:19	47403	PENS_T1	1	1	0	0.9	1.5	0.6	0	0	0	0	0	0	0	0
10/3/2024 10:19	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/3/2024 10:19	47401	PENS_T1	0	2	2	0	0.3	0.3	0.43	-0.72	0	0	0	0	0	0
10/3/2024 10:19	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 10:19	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/3/2024 10:20	65604	QVIL_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
10/3/2024 10:20	67201	TEHI_T1	0	1	1	0	0.2	0.2	1.12	1.16	2	2	0	1500	1500	0
10/3/2024 10:20	65601	QVIL_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
10/3/2024 10:20	67203	TEHI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 10:21	58401	MORO_T1	0	0	0	0	0	0	-0.37	-0.3	0	0	0	0	0	0
10/3/2024 10:22	58402	MORO_T1	0	0	0	0	0	0	0	-0.05	2	2	0	1500	1500	0
10/3/2024 10:23	16102	BING_T2	0	5	5	0	0.76	0.76	0.01	-0.03	1	1	0	1200	1200	0
10/3/2024 10:23	16103	BING_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/3/2024 10:23	16101	BING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/3/2024 10:24	60801	BUCK_T1	0	0	0	0	0	0	-0.34	-0.5	1	1	0	600	600	0
10/3/2024 10:26	22001	BOHE_T1	0	1	1	0	0.1	0.1	0.21	0.16	0	0	0	0	0	0
10/3/2024 10:26	22003	BOHE_T1	239	252	13	0.42	0.54	0.12	0	0	0	0	0	0	0	0
10/3/2024 10:28	46802	HEPB_T1	1	1	0	1.3	1.2	-0.1	-0.32	-0.34	0	0	0	0	0	0
10/3/2024 10:31	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 10:32	55001	NEWP_T1	0	0	0	0	0	0	-0.06	0.03	0	0	0	0	0	0
10/3/2024 10:32	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 10:32	55002	NEWP_T1	18	10	-8	0.58	0.9	0.32	0	0	0	0	0	0	0	0
10/3/2024 10:33	55002	NEWP_T1	18	10	-8	0.58	0.9	0.32	-0.21	-0.19	0	0	0	0	0	0
10/3/2024 10:33	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 10:34	63803	HEMP_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
10/3/2024 10:34	55002	NEWP_T1	18	10	-8	0.58	0.9	0.32	-0.21	-0.19	0	0	0	0	0	0
10/3/2024 10:34	63804	HEMP_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
10/3/2024 10:34	63801	HEMP_T1	0	1	1	0	0.4	0.4	-0.71	-0.09	1	1	0	900	900	0
10/3/2024 10:34	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
10/3/2024 10:34	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 10:34	15703	TANN_T2	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 10:35	65503	MOJO_T2	0	0	0	0	0	0	-0.82	-0.81	1	1	0	900	900	0
10/3/2024 10:35	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 10:36	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 10:36	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/3/2024 10:36	66504	SMAN_T2	0	0	0	0	0	0	-0.14	-0.22	0	0	0	0	0	0
10/3/2024 10:37	55002	NEWP_T1	18	10	-8	0.58	0.9	0.32	-0.19	-0.2	0	0	0	0	0	0
10/3/2024 10:37	47403	PENS_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
10/3/2024 10:37	55101	WERT_T1	0	0	0	0	0	0	-0.45	-0.91	1	1	0	600	600	0
10/3/2024 10:37	47402	PENS_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
10/3/2024 10:37	47401	PENS_T1	0	10	10	0	0.24	0.24	-0.68	-0.74	0	0	0	0	0	0
10/3/2024 10:38	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/3/2024 10:38	15001	BLMO_T1	4	4	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
10/3/2024 10:38	66504	SMAN_T2	0	0	0	0	0	0	-0.28	-0.43	0	0	0	0	0	0
10/3/2024 10:39	16101	BING_T2	1	0	-1	0.3	0	-0.3	0.37	0.36	0	0	0	0	0	0
10/3/2024 10:39	67603	WARW_T1	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
10/3/2024 10:39	67605	WARW_T1	16	13	-3	0.59	0.68	0.09	-1.07	-1.04	0	0	0	0	0	0
10/3/2024 10:39	16102	BING_T2	5	5	0	0.4	0.76	0.36	0	0	0	0	0	0	0	0
10/3/2024 10:39	65601	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/3/2024 10:39	16103	BING_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
10/3/2024 10:39	65603	QVIL_T2	0	0	0	0	0	0	0.49	0.61	0	0	0	0	0	0
10/3/2024 10:40	67603	WARW_T1	1	2	1	0.2	0.55	0.35	0.05	0.03	0	0	0	0	0	0
10/3/2024 10:40	47101	MARL_T1	0	0	0	0	0	0	-0.3	-0.27	0	0	0	0	0	0
10/3/2024 10:40	67605	WARW_T1	16	13	-3	0.59	0.68	0.09	0	0	0	0	0	0	0	0
10/3/2024 10:42	15001	BLMO_T1	4	4	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
10/3/2024 10:43	54502	ENOL_T2	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
10/3/2024 10:43	45501	DERR_T2	1	1	0	0.5	0.9	0.4	0.24	0.15	2	2	0	1800	1800	0
10/3/2024 10:43	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	-1.38	-1.36	1	1	0	600	600	0
10/3/2024 10:43	20603	GRWO_T2	0	0	0	0	0	0	-0.61	-0.64	1	1	0	900	900	0
10/3/2024 10:46	50501	MECH_T1	4	4	0	1.33	0.9	-0.43	-0.65	-0.81	0	0	0	0	0	0
10/3/2024 10:46	50502	MECH_T1	1	1	0	2.6	2.3	-0.3	0	0	0	0	0	0	0	0
10/3/2024 10:46	50506	MECH_T1	0	1	1	0	0.4	0.4	-0.02	0.18	1	1	0	900	900	0
10/3/2024 10:50	66502	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/3/2024 10:50	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 10:51	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.22	-0.23	0	0	0	0	0	0
10/3/2024 10:51	66502	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/3/2024 10:52	64101	REFR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 10:52	15703	TANN_T2	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
10/3/2024 10:52	15702	TANN_T2	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
10/3/2024 10:53	24902	WHHA_T1	0	2	2	0	0	0	0.7	0.7	0	0	0	0	0	0
10/3/2024 10:54	15702	TANN_T2	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
10/3/2024 10:54	15703	TANN_T2	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
10/3/2024 10:55	24902	WHHA_T1	0	2	2	0	0	0	0.7	0.7	0	0	0	0	0	0
10/3/2024 10:55	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 10:55	21206	ECAR_T2	1	1	0	6.7	6.6	-0.1	1.51	1.57	0	0	0	0	0	0
10/3/2024 10:57	16102	BING_T2	5	0	-5	0.76	0	-0.76	0	0	0	0	0	0	0	0
10/3/2024 10:57	16103	BING_T2	1	1	0	0.2	0.2	0	-1.43	-1.28	1	1	0	900	900	0
10/3/2024 10:58	67603	WARW_T1	2	1	-1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
10/3/2024 10:58	67605	WARW_T1	12	13	1	0.68	0.62	-0.06	-1.04	-1.02	0	0	0	0	0	0
10/3/2024 10:58	16103	BING_T2	1	1	0	0.2	0.2	0	-1.43	-1.28	1	1	0	900	900	0
10/3/2024 10:58	21206	ECAR_T2	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
10/3/2024 10:58	16102	BING_T2	5	0	-5	0.76	0	-0.76	0	0	0	0	0	0	0	0
10/3/2024 10:58	21204	ECAR_T2	1	1	0	0	0	0	-0.71	-0.74	0	0	0	0	0	0
10/3/2024 11:00	10801	CHHI_T1	0	5	5	0	0.22	0.22	-1.26	-1.22	2	2	0	1500	1500	0
10/3/2024 11:01	64204	KINZ_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/3/2024 11:01	50105	HARR_T3	7	7	0	5.54	5.55	0.01	0	0	0	0	0	0	0	0
10/3/2024 11:01	50103	HARR_T3	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/3/2024 11:01	64202	KINZ_T1	2	3	1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/3/2024 11:01	50107	HARR_T3	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
10/3/2024 11:01	64203	KINZ_T1	0	0	0	0	0	0	1.06	1.02	2	2	0	900	900	0
10/3/2024 11:01	50201	HARR_T3	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/3/2024 11:07	48301	ORWI_T1	2	3	1	5.25	3.73	-1.52	-0.24	-0.23	1	1	0	900	900	0
10/3/2024 11:08	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 11:08	42201	SHEN_T2	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
10/3/2024 11:08	66502	SMAN_T2	1	1	0	0.2	0.2	0	0.27	0.28	0	0	0	0	0	0
10/3/2024 11:11	59101	WALK_T2	1	0	-1	0.2	0	-0.2	2.41	2.14	0	0	0	0	0	0
10/3/2024 11:11	59102	WALK_T2	1	4	3	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
10/3/2024 11:13	50201	HARR_T3	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/3/2024 11:13	50105	HARR_T3	7	7	0	5.54	5.55	0.01	0	0	0	0	0	0	0	0
10/3/2024 11:13	50103	HARR_T3	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/3/2024 11:13	50107	HARR_T3	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
10/3/2024 11:15	44801	EDAN_T2	88	122	34	0.32	0.38	0.06	-1.63	-1.62	0	0	0	0	0	0
10/3/2024 11:21	57401	SPAN_T1	10	20	10	0.5	0.53	0.03	-2.05	-1.99	2	2	0	1200	1200	0
10/3/2024 11:21	57403	SPAN_T1	12	22	10	0.18	0.26	0.08	0	0	0	0	0	0	0	0
10/3/2024 11:23	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/3/2024 11:23	57403	SPAN_T1	12	22	10	0.18	0.26	0.08	0.03	0.03	0	0	0	0	0	0
10/3/2024 11:23	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.2	-0.2	0	0	0	0	0	0
10/3/2024 11:23	41902	REED_T1	0	1	1	0	0.4	0.4	1.05	1.02	0	0	0	0	0	0
10/3/2024 11:23	57401	SPAN_T1	10	20	10	0.5	0.53	0.03	-6.98	-6.94	7	7	0	4200	4200	0
10/3/2024 11:24	57403	SPAN_T1	12	22	10	0.18	0.26	0.08	0.03	0.03	0	0	0	0	0	0
10/3/2024 11:24	57401	SPAN_T1	10	20	10	0.5	0.53	0.03	-1	-0.99	1	1	0	600	600	0
10/3/2024 11:25	57403	SPAN_T1	12	22	10	0.18	0.26	0.08	0	0	0	0	0	0	0	0
10/3/2024 11:25	57401	SPAN_T1	10	20	10	0.5	0.53	0.03	-2.99	-2.98	3	3	0	1800	1800	0
10/3/2024 11:25	45902	AUBU_T1	0	3	3	0	0.1	0.1	-0.45	-0.42	1	1	0	600	600	0
10/3/2024 11:26	45902	AUBU_T1	0	3	3	0	0.1	0.1	-0.45	-0.42	1	1	0	600	600	0
10/3/2024 11:27	45902	AUBU_T1	0	3	3	0	0.1	0.1	-0.45	-0.42	1	1	0	600	600	0
10/3/2024 11:31	63501	HEID_T8K1-2	23	22	-1	0.2	0.22	0.02	-0.44	-0.36	2	2	0	1800	1800	0
10/3/2024 11:32	50105	HARR_T3	6	6	0	5.58	5.67	0.09	0	0	0	0	0	0	0	0
10/3/2024 11:32	50107	HARR_T3	1	1	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
10/3/2024 11:32	50201	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/3/2024 11:40	42201	SHEN_T2	0	0	0	0	0	0	0.92	0.96	0	0	0	0	0	0
10/3/2024 11:43	45802	HEGI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/3/2024 11:44	45802	HEGI_T2	1	0	-1	0.1	0	-0.1	2.4	2.45	0	0	0	0	0	0
10/3/2024 11:47	45802	HEGI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 11:49	65502	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 11:49	65503	MOJO_T2	2	2	0	0.35	0.45	0.1	-0.68	-0.7	1	1	0	900	900	0
10/3/2024 11:54	42701	AUGU_T1	1	1	0	0.4	0.7	0.3	0	0	2	2	0	1800	1800	0
10/3/2024 11:54	60102	COCA_T1	0	0	0	0	0	0	-0.78	-0.64	3	3	0	2100	2100	0
10/3/2024 11:54	60101	COCA_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
10/3/2024 11:56	42701	AUGU_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
10/3/2024 11:57	42701	AUGU_T1	1	1	0	0.4	0.7	0.3	0	0	2	2	0	1800	1800	0
10/3/2024 11:58	24702	FLND_T2	3	3	0	0.23	0.93	0.7	0	0	1	1	0	1200	1200	0
10/3/2024 12:03	42903	MIDD_T2	0	2	2	0	1.05	1.05	0.7	-0.09	1	1	0	1200	1200	0
10/3/2024 12:03	42902	MIDD_T2	1	9	8	0.2	0.56	0.36	0	0	0	0	0	0	0	0
10/3/2024 12:04	63601	LETO_T1	3	3	0	0.33	0.7	0.37	0.28	0.24	2	2	0	2100	2100	0
10/3/2024 12:04	63801	HEMP_T1	1	6	5	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/3/2024 12:04	63802	HEMP_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/3/2024 12:04	42903	MIDD_T2	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
10/3/2024 12:04	63602	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 12:04	42902	MIDD_T2	1	9	8	0.2	0.56	0.36	0	0	0	0	0	0	0	0
10/3/2024 12:04	63803	HEMP_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/3/2024 12:04	63804	HEMP_T1	1	1	0	6.4	6.3	-0.1	1.16	1.22	0	0	0	0	0	0
10/3/2024 12:05	65501	MOJO_T1	0	0	0	0	0	0	-0.85	-0.73	1	1	0	900	900	0
10/3/2024 12:05	42902	MIDD_T2	1	9	8	0.2	0.56	0.36	0	0	0	0	0	0	0	0
10/3/2024 12:05	42903	MIDD_T2	0	2	2	0	1.05	1.05	0.7	-0.09	1	1	0	1200	1200	0
10/3/2024 12:06	42902	MIDD_T2	1	9	8	0.2	0.56	0.36	-0.81	-0.78	2	2	0	1200	1200	0
10/3/2024 12:06	42903	MIDD_T2	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
10/3/2024 12:08	57401	SPAN_T1	27	23	-4	0.56	0.64	0.08	0	0	0	0	0	0	0	0
10/3/2024 12:08	57403	SPAN_T1	21	8	-13	0.3	0.41	0.11	0.04	0.05	0	0	0	0	0	0
10/3/2024 12:09	15702	TANN_T2	0	0	0	0	0	0	-0.36	-0.32	0	0	0	0	0	0
10/3/2024 12:09	15703	TANN_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
10/3/2024 12:10	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/3/2024 12:10	57401	SPAN_T1	27	23	-4	0.56	0.64	0.08	-0.86	-0.86	1	1	0	600	600	0
10/3/2024 12:10	57403	SPAN_T1	21	8	-13	0.3	0.41	0.11	0	0	0	0	0	0	0	0
10/3/2024 12:10	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 12:10	66502	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/3/2024 12:10	66505	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/3/2024 12:11	67201	TEHI_T1	3	2	-1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
10/3/2024 12:11	44801	EDAN_T2	131	116	-15	0.43	0.44	0.01	0	0	0	0	0	0	0	0
10/3/2024 12:11	44802	EDAN_T2	0	0	0	0	0	0	-0.66	-0.61	0	0	0	0	0	0
10/3/2024 12:11	67203	TEHI_T1	0	1	1	0	0.6	0.6	3.21	2.86	2	3	1	1500	2100	600
10/3/2024 12:12	44801	EDAN_T2	131	116	-15	0.43	0.44	0.01	0	0	0	0	0	0	0	0
10/3/2024 12:12	44802	EDAN_T2	0	0	0	0	0	0	-0.66	-0.61	0	0	0	0	0	0
10/3/2024 12:13	50107	HARR_T3	1	1	0	7.1	6.4	-0.7	0	0	0	0	0	0	0	0
10/3/2024 12:13	44801	EDAN_T2	131	116	-15	0.43	0.44	0.01	0	0	0	0	0	0	0	0
10/3/2024 12:13	50103	HARR_T3	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
10/3/2024 12:13	50105	HARR_T3	6	6	0	5.73	5.58	-0.15	0	0	0	0	0	0	0	0
10/3/2024 12:13	50201	HARR_T3	1	2	1	0.5	0.65	0.15	0	0	1	1	0	1200	1200	0
10/3/2024 12:13	42701	AUGU_T1	1	1	0	0.6	0.9	0.3	0	0	2	2	0	1800	1800	0
10/3/2024 12:13	44802	EDAN_T2	0	0	0	0	0	0	-1.32	-1.22	0	0	0	0	0	0
10/3/2024 12:15	44802	EDAN_T2	0	0	0	0	0	0	-0.66	-0.61	0	0	0	0	0	0
10/3/2024 12:15	67605	WARW_T1	13	8	-5	0.63	0.35	-0.28	-1.01	-0.96	0	0	0	0	0	0
10/3/2024 12:15	44801	EDAN_T2	115	98	-17	0.43	0.49	0.06	0	0	0	0	0	0	0	0
10/3/2024 12:15	67603	WARW_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
10/3/2024 12:17	50107	HARR_T3	1	1	0	6.4	6.6	0.2	0	0	0	0	0	0	0	0
10/3/2024 12:17	50103	HARR_T3	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/3/2024 12:17	50201	HARR_T3	2	2	0	0.5	0.7	0.2	0	0	1	1	0	1200	1200	0
10/3/2024 12:17	50105	HARR_T3	6	6	0	5.63	5.57	-0.06	0	0	0	0	0	0	0	0
10/3/2024 12:22	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 12:29	54504	ENOL_T2	1	0	-1	0.4	0	-0.4	-1.08	-1.1	1	1	0	600	600	0
10/3/2024 12:29	54505	ENOL_T2	2	3	1	0.35	2	1.65	0	0	0	0	0	0	0	0
10/3/2024 12:29	54502	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/3/2024 12:37	16402	MOPO_T1	3	0	-3	0.6	0	-0.6	0	0	0	0	0	0	0	0
10/3/2024 12:37	16401	MOPO_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
10/3/2024 12:39	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.19	1	1	0	600	600	0
10/3/2024 12:39	43801	SWIL_T1	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
10/3/2024 12:42	44601	SALE_T2	2	2	0	1.5	0	-1.5	0	0	2	2	0	900	900	0
10/3/2024 12:42	41503	FAIR_T2	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
10/3/2024 12:42	41501	FAIR_T2	0	0	0	0	0	0	-0.95	-0.86	1	1	0	600	600	0
10/3/2024 12:44	44601	SALE_T2	2	2	0	1.5	0	-1.5	0	0	2	2	0	900	900	0
10/3/2024 12:44	64704	LITI_T1	0	0	0	0	0	0	0.54	0.56	1	1	0	600	600	0
10/3/2024 12:44	44801	EDAN_T2	79	96	17	0.47	0.5	0.03	-1.6	-1.53	0	0	0	0	0	0
10/3/2024 12:45	44802	EDAN_T2	0	0	0	0	0	0	-0.61	-0.63	0	0	0	0	0	0
10/3/2024 12:45	44801	EDAN_T2	95	85	-10	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
10/3/2024 12:52	67501	WEWI_T1	3	3	0	0.9	0.87	-0.03	-0.8	-0.75	1	1	0	600	600	0
10/3/2024 12:52	67505	WEWI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 12:53	67401	WAKE_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
10/3/2024 12:53	67402	WAKE_T2	0	1	1	0	0.3	0.3	0.52	0.25	1	1	0	600	600	0
10/3/2024 12:53	67503	WEWI_T2	1	1	0	8.1	8.3	0.2	-0.09	0.04	0	0	0	0	0	0
10/3/2024 12:53	67502	WEWI_T2	4	3	-1	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
10/3/2024 12:54	20403	ASHF_T2	8	9	1	0.41	0.5	0.09	0	0	0	0	0	0	0	0
10/3/2024 12:54	20401	ASHF_T2	4	3	-1	0.2	0.15	-0.05	-0.15	-0.09	0	0	0	0	0	0
10/3/2024 12:55	20403	ASHF_T2	8	9	1	0.41	0.5	0.09	0.48	0.51	0	0	0	0	0	0
10/3/2024 12:55	60101	COCA_T1	1	1	0	0.2	0.1	-0.1	0.45	0.47	0	0	0	0	0	0
10/3/2024 12:55	67502	WEWI_T2	4	3	-1	0.63	0.53	-0.1	0.02	0.06	0	0	0	0	0	0
10/3/2024 12:55	20401	ASHF_T2	4	3	-1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/3/2024 12:55	67503	WEWI_T2	1	1	0	8.1	8.3	0.2	0	0	0	0	0	0	0	0
10/3/2024 12:56	20403	ASHF_T2	8	9	1	0.41	0.5	0.09	0.48	0.51	0	0	0	0	0	0
10/3/2024 12:56	20401	ASHF_T2	4	3	-1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/3/2024 12:59	60101	COCA_T1	1	1	0	0.2	0.1	-0.1	0.45	0.47	0	0	0	0	0	0
10/3/2024 13:04	67503	WEWI_T2	1	1	0	8.2	8.7	0.5	0	0	0	0	0	0	0	0
10/3/2024 13:04	67502	WEWI_T2	3	8	5	0.5	0.58	0.08	0.02	0.06	0	0	0	0	0	0
10/3/2024 13:06	17001	RIRO_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
10/3/2024 13:08	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 13:08	41902	REED_T1	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
10/3/2024 13:09	67503	WEWI_T2	1	1	0	8.2	8.7	0.5	0	0	0	0	0	0	0	0
10/3/2024 13:09	67502	WEWI_T2	3	8	5	0.5	0.58	0.08	0.06	0.05	0	0	0	0	0	0
10/3/2024 13:13	46801	HEPB_T2	2	2	0	0.3	0.2	-0.1	0.68	0.62	0	0	0	0	0	0
10/3/2024 13:13	46803	HEPB_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/3/2024 13:16	24101	EHAZ_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/3/2024 13:16	24105	EHAZ_T1	4	4	0	6.5	6.48	-0.02	0	0	0	0	0	0	0	0
10/3/2024 13:16	24104	EHAZ_T1	0	0	0	0	0	0	-0.73	-0.77	1	1	0	1200	1200	0
10/3/2024 13:21	60301	TWVA_T2	1	0	-1	0.1	0	-0.1	-2.63	-2.62	3	3	0	2700	2700	0
10/3/2024 13:23	22003	BOHE_T1	220	238	18	0.33	0.42	0.09	-0.2	-0.2	0	0	0	0	0	0
10/3/2024 13:23	22001	BOHE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/3/2024 13:24	55105	WERT_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	900	900	0
10/3/2024 13:30	67503	WEWI_T2	1	1	0	8.7	8.1	-0.6	0	0	0	0	0	0	0	0
10/3/2024 13:30	67502	WEWI_T2	8	3	-5	0.58	0.8	0.22	0.05	0.03	0	0	0	0	0	0
10/3/2024 13:31	47901	HRDG_T1	0	0	0	0	0	0	2.04	1.99	0	0	0	0	0	0
10/3/2024 13:32	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/3/2024 13:34	64802	MONE_T2	8	4	-4	0.53	0.58	0.05	0.54	0.52	0	0	0	0	0	0
10/3/2024 13:34	43201	MVIL_T2	1	0	-1	0.2	0	-0.2	-1.23	-1.16	0	0	0	0	0	0
10/3/2024 13:34	64801	MONE_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
10/3/2024 13:35	17002	RIRO_T2	2	1	-1	0.2	0.5	0.3	0.77	0.88	0	0	0	0	0	0
10/3/2024 13:49	67505	WEWI_T1	2	1	-1	0.3	0.2	-0.1	0.12	0.1	1	1	0	900	900	0
10/3/2024 13:49	67501	WEWI_T1	8	5	-3	0.71	0.8	0.09	0	0	0	0	0	0	0	0
10/3/2024 13:52	54601	SUMM_T2	10	9	-1	0.61	0.46	-0.15	-1.59	-1.64	2	2	0	2100	2100	0
10/3/2024 13:52	54602	SUMM_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/3/2024 13:54	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 13:54	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 13:55	54602	SUMM_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/3/2024 13:55	54603	SUMM_T2	0	0	0	0	0	0	-0.44	-0.44	1	1	0	900	900	0
10/3/2024 13:55	54601	SUMM_T2	10	9	-1	0.61	0.46	-0.15	0	0	0	0	0	0	0	0
10/3/2024 13:56	46004	BERW_T2	4	5	1	0.43	0.42	-0.01	0.23	0.2	0	0	0	0	0	0
10/3/2024 13:58	45501	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 13:58	44601	SALE_T2	2	0	-2	0.1	0	-0.1	0	0	2	2	0	900	900	0
10/3/2024 13:58	45502	DERR_T2	1	0	-1	1	0	-1	0.27	0.33	1	1	0	300	300	0
10/3/2024 14:03	54203	PENN_T1	21	22	1	1.01	1.02	0.01	0	0	0	0	0	0	0	0
10/3/2024 14:03	54201	PENN_T1	53	68	15	0.39	0.38	-0.01	-0.78	-0.77	0	0	0	0	0	0
10/3/2024 14:04	58401	MORO_T1	1	10	9	0.9	0.24	-0.66	0	0	0	0	0	0	0	0
10/3/2024 14:04	58401	MORO_T1	1	1	0	0.3	0.2	-0.1	-0.17	-0.13	0	0	0	0	0	0
10/3/2024 14:04	46101	MACI_T2	0	0	0	0	0	0	-1.25	-1.28	2	2	0	2400	2400	0
10/3/2024 14:05	54201	PENN_T1	53	68	15	0.39	0.38	-0.01	-0.78	-0.77	0	0	0	0	0	0
10/3/2024 14:05	54203	PENN_T1	21	22	1	1.01	1.02	0.01	0.96	1.02	0	0	0	0	0	0
10/3/2024 14:06	58401	MORO_T1	1	1	0	0.3	0.2	-0.1	-0.17	-0.13	0	0	0	0	0	0
10/3/2024 14:06	58402	MORO_T1	1	10	9	0.9	0.24	-0.66	-0.09	-0.14	2	2	0	1500	1500	0
10/3/2024 14:08	54203	PENN_T1	21	22	1	1.01	1.02	0.01	1.02	0.99	0	0	0	0	0	0
10/3/2024 14:08	54201	PENN_T1	53	68	15	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
10/3/2024 14:10	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 14:10	66501	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/3/2024 14:13	42701	AUGU_T1	3	6	3	0.53	0.33	-0.2	0	0	2	2	0	1800	1800	0
10/3/2024 14:13	45902	AUBU_T1	3	2	-1	0.63	0.65	0.02	-0.81	-0.74	1	1	0	600	600	0
10/3/2024 14:14	64602	LEOL_T1	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
10/3/2024 14:16	45901	AUBU_T1	0	0	0	0	0	0	2.02	2.1	0	0	0	0	0	0
10/3/2024 14:16	45902	AUBU_T1	2	1	-1	0.65	0.8	0.15	0	0	0	0	0	0	0	0
10/3/2024 14:19	54603	SUMM_T2	0	0	0	0	0	0	-0.44	-0.47	1	1	0	900	900	0
10/3/2024 14:19	54601	SUMM_T2	9	12	3	0.43	0.52	0.09	0	0	0	0	0	0	0	0
10/3/2024 14:19	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 14:20	44703	MUNC_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
10/3/2024 14:20	44701	MUNC_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/3/2024 14:23	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 14:23	43301	WATS_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/3/2024 14:23	43304	WATS_T2	1	1	0	0.2	0.3	0.1	-0.51	-0.4	0	0	0	0	0	0
10/3/2024 14:24	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 14:24	43301	WATS_T2	1	1	0	0.5	0.4	-0.1	0.23	0.23	0	0	0	0	0	0
10/3/2024 14:24	43304	WATS_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/3/2024 14:25	43301	WATS_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/3/2024 14:25	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 14:25	43304	WATS_T2	1	1	0	0.2	0.3	0.1	-0.51	-0.4	0	0	0	0	0	0
10/3/2024 14:26	43304	WATS_T2	1	1	0	0.2	0.3	0.1	-0.51	-0.4	0	0	0	0	0	0
10/3/2024 14:26	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 14:26	43301	WATS_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/3/2024 14:27	43304	WATS_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/3/2024 14:27	43301	WATS_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/3/2024 14:27	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 14:35	13905	SEID_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
10/3/2024 14:41	20401	ASHF_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/3/2024 14:41	20403	ASHF_T2	10	8	-2	0.33	0.33	0	0.36	0.43	0	0	0	0	0	0
10/3/2024 14:44	21501	CEAV_T2	0	0	0	0	0	0	0.88	0.95	1	1	0	1200	1200	0
10/3/2024 14:46	63803	HEMP_T1	1	2	1	0.3	1.25	0.95	0	0	0	0	0	0	0	0
10/3/2024 14:46	63801	HEMP_T1	3	2	-1	0.4	0.4	0	-0.6	-0.45	1	1	0	900	900	0
10/3/2024 14:46	63804	HEMP_T1	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
10/3/2024 14:54	54601	SUMM_T2	11	12	1	0.52	0.42	-0.1	-3.3	-3.3	4	4	0	4200	4200	0
10/3/2024 14:55	67402	WAKE_T2	0	0	0	0	0	0	-0.17	-0.17	1	1	0	600	600	0
10/3/2024 14:55	67401	WAKE_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/3/2024 15:01	54601	SUMM_T2	12	10	-2	0.41	0.39	-0.02	0	0	0	0	0	0	0	0
10/3/2024 15:01	54603	SUMM_T2	0	0	0	0	0	0	-0.45	-0.43	1	1	0	900	900	0
10/3/2024 15:08	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/3/2024 15:08	67803	WLAN_T1	0	0	0	0	0	0	-2.15	-2.1	0	0	0	0	0	0
10/3/2024 15:09	67804	WLAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/3/2024 15:09	67803	WLAN_T1	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
10/3/2024 15:32	27101	GFLD_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/3/2024 15:39	20401	ASHF_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/3/2024 15:39	20403	ASHF_T2	3	1	-2	0.33	0.2	-0.13	0.39	0.22	0	0	0	0	0	0
10/3/2024 15:44	61801	EELI_T2	0	0	0	0	0	0	-0.5	-0.55	1	1	0	600	600	0
10/3/2024 15:46	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/3/2024 15:46	54504	ENOL_T2	0	0	0	0	0	0	-1.06	-1.04	1	1	0	600	600	0
10/3/2024 15:50	67001	STHI_T2	3	3	0	0.2	0.23	0.03	0.54	0.48	0	0	0	0	0	0
10/3/2024 15:50	67002	STHI_T2	2	0	-2	0.15	0	-0.15	1.88	1.92	0	0	0	0	0	0
10/3/2024 15:53	67002	STHI_T2	2	0	-2	0.15	0	-0.15	1.92	1.84	0	0	0	0	0	0
10/3/2024 15:53	67001	STHI_T2	3	3	0	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/3/2024 15:55	67002	STHI_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/3/2024 15:55	67001	STHI_T2	3	3	0	0.2	0.23	0.03	0.24	0.26	0	0	0	0	0	0
10/3/2024 15:56	67002	STHI_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/3/2024 15:56	67001	STHI_T2	3	3	0	0.2	0.23	0.03	0.24	0.26	0	0	0	0	0	0
10/3/2024 15:57	10801	OHHI_T1	3	0	-3	0.2	0	-0.2	-1.23	-1.25	2	2	0	1500	1500	0
10/3/2024 15:59	44301	BEAV_T2	1	2	1	0.2	0.3	0.1	-0.23	-0.24	1	1	0	600	600	0
10/3/2024 16:00	44301	BEAV_T2	2	1	-1	0.3	0.2	-0.1	-0.23	-0.24	1	1	0	600	600	0
10/3/2024 16:01	44301	BEAV_T2	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/3/2024 16:10	24801	VALM_T1	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
10/3/2024 16:15	63302	GREE_T1	0	0	0	0	0	0	0.99	0.83	0	0	0	0	0	0
10/3/2024 16:20	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 16:20	64204	KINZ_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
10/3/2024 16:20	64202	KINZ_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
10/3/2024 16:20	65502	MOJO_T2	0	0	0	0	0	0	-0.87	-0.85	1	1	0	900	900	0
10/3/2024 16:21	64204	KINZ_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
10/3/2024 16:21	64201	KINZ_T1	0	0	0	0	0	0	-0.84	-0.91	4	4	0	2100	2100	0
10/3/2024 16:21	64202	KINZ_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
10/3/2024 16:21	65502	MOJO_T2	0	0	0	0	0	0	-0.85	-0.87	1	1	0	900	900	0
10/3/2024 16:27	46004	BERW_T2	1	1	0	0.1	0.1	0	0.08	0.06	0	0	0	0	0	0
10/3/2024 16:32	59301	MCAL_T1	5	7	2	0.82	0.69	-0.13	-1.59	-1.66	1	1	0	600	600	0
10/3/2024 16:33	59301	MCAL_T1	5	7	2	0.82	0.69	-0.13	-1.59	-1.66	1	1	0	600	600	0
10/3/2024 16:38	67605	WARW_T1	0	0	0	0	0	0	-0.8	-0.78	0	0	0	0	0	0
10/3/2024 16:46	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/3/2024 16:47	67001	STHI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/3/2024 16:47	67002	STHI_T2	0	0	0	0	0	0	0.9	0.99	0	0	0	0	0	0
10/3/2024 16:48	50103	HARR_T3	1	2	1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
10/3/2024 16:48	50107	HARR_T3	1	1	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
10/3/2024 16:48	50105	HARR_T3	6	6	0	5.82	5.4	-0.42	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/3/2024 16:48	50201	HARR_T3	1	1	0	0.7	1.2	0.5	0	0	1	1	0	1200	1200	0
10/3/2024 16:48	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 16:49	65205	PRIN_T1	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
10/3/2024 16:55	59101	WALK_T2	0	0	0	0	0	0	1.57	1.57	0	0	0	0	0	0
10/3/2024 16:56	59101	WALK_T2	0	0	0	0	0	0	3.13	3.14	0	0	0	0	0	0
10/3/2024 16:59	63305	GREE_T1	0	0	0	0	0	0	-0.95	-0.97	0	0	0	0	0	0
10/3/2024 16:59	62106	ELAN_T1	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
10/3/2024 16:59	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 17:01	63804	HEMP_T1	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
10/3/2024 17:01	63802	HEMP_T1	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
10/3/2024 17:01	63306	GREE_T1	0	0	0	0	0	0	-1.79	-1.79	1	1	0	900	900	0
10/3/2024 17:03	24204	PROV_T3	1	1	0	6.1	5.8	-0.3	0	0	0	0	0	0	0	0
10/3/2024 17:03	24201	PROV_T3	1	2	1	6.9	3.25	-3.65	-1.35	-1.35	1	1	0	1200	1200	0
10/3/2024 17:03	63305	GREE_T1	0	0	0	0	0	0	-0.95	-0.97	0	0	0	0	0	0
10/3/2024 17:04	63802	HEMP_T1	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
10/3/2024 17:04	63804	HEMP_T1	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
10/3/2024 17:09	44202	POIN_T2	0	0	0	0	0	0	-2.1	-2.22	1	1	0	1200	1200	0
10/3/2024 17:09	44201	POIN_T1	0	0	0	0	0	0	0	0	2	2	0	2100	2100	0
10/3/2024 17:10	14502	SCHO_T1	0	0	0	0	0	0	0.67	0.65	0	0	0	0	0	0
10/3/2024 17:19	55002	NEWP_T1	5	5	0	1.1	0.8	-0.3	-0.17	-0.19	0	0	0	0	0	0
10/3/2024 17:26	50201	HARR_T3	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
10/3/2024 17:26	50107	HARR_T3	1	1	0	6.7	6.1	-0.6	0	0	0	0	0	0	0	0
10/3/2024 17:26	50103	HARR_T3	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
10/3/2024 17:26	50105	HARR_T3	6	6	0	5.4	5.33	-0.07	0	0	0	0	0	0	0	0
10/3/2024 17:30	40801	EXCH_T2	0	0	0	0	0	0	-0.39	-0.4	1	1	0	1200	1200	0
10/3/2024 17:34	46101	MACI_T2	0	0	0	0	0	0	-0.58	-0.59	1	1	0	1200	1200	0
10/3/2024 17:37	64101	REFR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 17:40	43302	WATS_T2	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
10/3/2024 17:40	43304	WATS_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
10/3/2024 17:41	11904	ETEX_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
10/3/2024 17:42	46206	DANV_T2	0	0	0	0	0	0	1.1	1.38	2	2	0	2100	2100	0
10/3/2024 17:42	46203	DANV_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
10/3/2024 17:43	43304	WATS_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
10/3/2024 17:43	43302	WATS_T2	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
10/3/2024 17:52	66901	SHIL_T2	27	164	137	0.11	0.21	0.1	-1.43	-1.45	1	1	0	1200	1200	0
10/3/2024 17:52	66902	SHIL_T2	2	121	119	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/3/2024 17:53	67106	SPRI_T2	0	0	0	0	0	0	-1.65	-1.66	2	2	0	1500	1500	0
10/3/2024 17:54	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 17:58	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	-1.19	-1.16	1	1	0	600	600	0
10/3/2024 17:58	54506	ENOL_T2	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
10/3/2024 18:00	44505	HAMI_T2	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
10/3/2024 18:00	44502	HAMI_T2	1	1	0	3.4	3.6	0.2	0	0	0	0	0	0	0	0
10/3/2024 18:01	44502	HAMI_T2	1	1	0	3.4	3.6	0.2	0	0	0	0	0	0	0	0
10/3/2024 18:01	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 18:13	63304	GREE_T1	0	0	0	0	0	0	-1.34	-1.41	0	0	0	0	0	0
10/3/2024 18:14	61801	EELI_T2	0	1	1	0	0	0	-0.67	-0.7	1	1	0	600	600	0
10/3/2024 18:16	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/3/2024 18:18	44502	HAMI_T2	1	1	0	3.4	3.6	0.2	0	0	0	0	0	0	0	0
10/3/2024 18:18	44503	HAMI_T2	0	0	0	0	0	0	-1.18	-1.17	1	1	0	1200	1200	0
10/3/2024 18:23	20201	JERM_T1	0	0	0	0	0	0	-0.82	-0.77	2	2	0	2400	2400	0
10/3/2024 18:45	50201	HARR_T3	1	1	0	0.2	0.2	0	0	0	1	1	0	1200	1200	0
10/3/2024 18:45	50105	HARR_T3	6	6	0	5.38	5.28	-0.1	0	0	0	0	0	0	0	0
10/3/2024 18:45	50107	HARR_T3	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
10/3/2024 18:45	50103	HARR_T3	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
10/3/2024 18:45	50202	HARR_T3	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/3/2024 20:17	41301	FISH_T1	2	2	0	0.95	0.95	0	-0.04	-0.05	0	0	0	0	0	0
10/3/2024 20:18	41301	FISH_T1	2	2	0	0.95	0.95	0	-0.04	-0.05	0	0	0	0	0	0
10/3/2024 20:25	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
10/3/2024 20:25	15703	TANN_T2	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
10/3/2024 20:33	47401	PENS_T1	0	0	0	0	0	0	0.54	0.44	0	0	0	0	0	0
10/3/2024 20:35	17002	RIRO_T2	23	55	32	0.16	0.15	-0.01	0.38	0.4	0	0	0	0	0	0
10/3/2024 20:35	64101	REFR_T1	4	0	-4	0.25	0	-0.25	0	0	0	0	0	0	0	0
10/3/2024 20:36	64101	REFR_T1	4	0	-4	0.25	0	-0.25	0	0	0	0	0	0	0	0
10/3/2024 20:37	64101	REFR_T1	4	0	-4	0.25	0	-0.25	0	0	0	0	0	0	0	0
10/3/2024 20:37	15603	NSTR_T2	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
10/3/2024 20:38	50103	HARR_T3	2	2	0	0.95	1	0.05	0	0	0	0	0	0	0	0
10/3/2024 20:38	16101	BING_T2	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
10/3/2024 20:38	50102	HARR_T3	5	2	-3	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
10/3/2024 20:38	50201	HARR_T3	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/3/2024 20:38	50105	HARR_T3	6	6	0	5.15	5.17	0.02	0	0	0	0	0	0	0	0
10/3/2024 20:38	50202	HARR_T3	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
10/3/2024 20:38	64101	REFR_T1	4	0	-4	0.25	0	-0.25	0	0	0	0	0	0	0	0
10/3/2024 20:38	50107	HARR_T3	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
10/3/2024 20:39	65503	MOJO_T2	0	64	64	0	0.13	0.13	-0.23	-0.23	0	0	0	0	0	0
10/3/2024 20:39	67605	WARW_T1	16	16	0	0.53	0.53	0	-1.09	-1.08	0	0	0	0	0	0
10/3/2024 20:39	64101	REFR_T1	4	0	-4	0.25	0	-0.25	0	0	0	0	0	0	0	0
10/3/2024 20:39	65502	MOJO_T2	12	277	265	0.1	0.27	0.17	0	0	0	0	0	0	0	0
10/3/2024 20:40	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
10/3/2024 20:40	57401	SPAN_T1	2	2	0	0.5	0.75	0.25	-0.78	-0.76	1	1	0	600	600	0
10/3/2024 20:40	57403	SPAN_T1	1	19	18	0.1	0.27	0.17	0	0	0	0	0	0	0	0
10/3/2024 20:40	15702	TANN_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
10/3/2024 20:41	24801	VALM_T1	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
10/3/2024 20:41	64902	MILL_T2	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
10/3/2024 20:41	16401	MOPO_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
10/3/2024 20:41	13905	SEID_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
10/3/2024 20:42	64901	MILL_T1	14	46	32	0.12	0.28	0.16	0	0	0	0	0	0	0	0
10/3/2024 20:42	67502	WEWI_T2	29	475	446	0.15	0.31	0.16	0	0	0	0	0	0	0	0
10/3/2024 20:42	47101	MARL_T1	0	0	0	0	0	0	-0.25	-0.21	0	0	0	0	0	0
10/3/2024 20:42	20603	GRWO_T2	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
10/3/2024 20:42	64904	MILL_T1	1	150	149	0.1	0.16	0.06	-0.28	-0.21	0	0	0	0	0	0
10/3/2024 20:42	67503	WEWI_T2	1	1	0	7.6	8.6	1	-0.05	-0.13	0	0	0	0	0	0
10/3/2024 20:42	24902	WHHA_T1	0	0	0	0	0	0	0.74	0.73	0	0	0	0	0	0
10/3/2024 20:42	27101	GFLD_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/3/2024 20:42	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 20:42	15001	BLMO_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/3/2024 20:42	64302	LINC_T2	0	0	0	0	0	0	1.12	1	0	0	0	0	0	0
10/3/2024 20:43	65603	QVIL_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
10/3/2024 20:43	20403	ASHF_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
10/3/2024 20:43	20401	ASHF_T2	3	5	2	0.4	0.46	0.06	0	0	0	0	0	0	0	0
10/3/2024 20:44	22001	BOHE_T1	340	7	-333	0.32	0.1	-0.22	0	0	0	0	0	0	0	0
10/3/2024 20:44	44201	POIN_T1	104	4	-100	0.18	0.1	-0.08	0	0	2	2	0	2100	2100	0
10/3/2024 20:44	54601	SUMM_T2	13	13	0	0.65	0.74	0.09	-1.86	-1.84	2	2	0	2100	2100	0
10/3/2024 20:44	67603	WARW_T1	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
10/3/2024 20:44	25402	LAHA_T2	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
10/3/2024 20:44	67001	STHI_T2	560	1	-559	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
10/3/2024 20:44	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:44	67605	WARW_T1	16	16	0	0.53	0.53	0	0	0	0	0	0	0	0	0
10/3/2024 20:44	22003	BOHE_T1	453	252	-201	0.88	0.63	-0.25	-0.21	-0.2	0	0	0	0	0	0
10/3/2024 20:44	22002	BOHE_T1	14	0	-14	0.33	0	-0.33	0	0	0	0	0	0	0	0
10/3/2024 20:44	67002	STHI_T2	97	0	-97	0.18	0	-0.18	1.54	1.47	0	0	0	0	0	0
10/3/2024 20:44	54602	SUMM_T2	2	5	3	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/3/2024 20:44	66504	SMAN_T2	0	0	0	0	0	0	-0.59	-0.75	0	0	0	0	0	0
10/3/2024 20:45	22001	BOHE_T1	7	4	-3	0.1	0.1	0	0.22	0.24	0	0	0	0	0	0
10/3/2024 20:45	57403	SPAN_T1	1	22	21	0.1	0.29	0.19	0	0	0	0	0	0	0	0
10/3/2024 20:45	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/3/2024 20:45	55101	WERT_T1	0	0	0	0	0	0	-0.97	-1.06	1	1	0	600	600	0
10/3/2024 20:45	16103	BING_T2	0	0	0	0	0	0	-1.3	-1.36	1	1	0	900	900	0
10/3/2024 20:45	62101	ELAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/3/2024 20:45	22003	BOHE_T1	251	253	2	0.61	0.61	0	0	0	0	0	0	0	0	0
10/3/2024 20:45	62105	ELAN_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:45	63804	HEMP_T1	1	1	0	6	5.6	-0.4	0	0	0	0	0	0	0	0
10/3/2024 20:45	44502	HAMI_T2	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:45	16102	BING_T2	0	0	0	0	0	0	-0.15	-0.2	1	1	0	1200	1200	0
10/3/2024 20:45	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 20:45	60101	COCA_T1	0	1	1	0	0	0	0.43	0.36	0	0	0	0	0	0
10/3/2024 20:45	57401	SPAN_T1	2	2	0	0.25	1	0.75	-1.56	-1.52	2	2	0	1200	1200	0
10/3/2024 20:45	54601	SUMM_T2	13	13	0	0.74	0.48	-0.26	-1.86	-1.84	2	2	0	2100	2100	0
10/3/2024 20:45	54602	SUMM_T2	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
10/3/2024 20:45	44503	HAMI_T2	0	0	0	0	0	0	-1.23	-1.24	1	1	0	1200	1200	0
10/3/2024 20:45	63802	HEMP_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
10/3/2024 20:45	62106	ELAN_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
10/3/2024 20:46	57403	SPAN_T1	1	22	21	0.1	0.29	0.19	0	0	0	0	0	0	0	0
10/3/2024 20:46	54201	PENN_T1	11	8	-3	0.72	0.64	-0.08	0	0	0	0	0	0	0	0
10/3/2024 20:46	24902	WHHA_T1	0	0	0	0	0	0	0.74	0.73	0	0	0	0	0	0
10/3/2024 20:46	63802	HEMP_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
10/3/2024 20:46	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:46	15702	TANN_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
10/3/2024 20:46	67605	WARW_T1	16	8	-8	0.53	0.25	-0.28	-1.09	-1.08	0	0	0	0	0	0
10/3/2024 20:46	16103	BING_T2	0	0	0	0	0	0	-1.3	-1.36	1	1	0	900	900	0
10/3/2024 20:46	55002	NEWP_T1	6	6	0	0.95	1.33	0.38	-0.25	-0.25	0	0	0	0	0	0
10/3/2024 20:46	63501	HEID_TBK1-2	1	1	0	1	1.4	0.4	0.52	0.61	0	0	0	0	0	0
10/3/2024 20:46	54203	PENN_T1	18	18	0	1.33	0.95	-0.38	0.8	0.77	0	0	0	0	0	0
10/3/2024 20:46	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/3/2024 20:46	63804	HEMP_T1	1	1	0	6	5.6	-0.4	0	0	0	0	0	0	0	0
10/3/2024 20:46	55001	NEWP_T1	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
10/3/2024 20:46	15001	BLMO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/3/2024 20:46	57401	SPAN_T1	2	2	0	0.25	1	0.75	-0.78	-0.76	1	1	0	600	600	0
10/3/2024 20:47	67503	WEWI_T2	1	1	0	8	8.6	0.6	0	0	0	0	0	0	0	0
10/3/2024 20:47	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0.14	0.13	0	0	0	0	0	0
10/3/2024 20:47	57403	SPAN_T1	1	22	21	0.1	0.29	0.19	0	0	0	0	0	0	0	0
10/3/2024 20:47	54203	PENN_T1	18	18	0	1.33	0.95	-0.38	0	0	0	0	0	0	0	0
10/3/2024 20:47	59302	MCAL_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
10/3/2024 20:47	15702	TANN_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
10/3/2024 20:47	65503	MOJO_T2	0	133	133	0	0.17	0.17	0	0	0	0	0	0	0	0
10/3/2024 20:47	65502	MOJO_T2	37	311	274	0.1	0.34	0.24	-1.62	-1.77	1	1	0	900	900	0
10/3/2024 20:47	59301	MCAL_T1	2	30	28	1.8	0.25	-1.55	-1.81	-1.8	1	1	0	600	600	0
10/3/2024 20:47	66901	SHIL_T2	0	0	0	0	0	0	-1.66	-1.63	1	1	0	1200	1200	0
10/3/2024 20:47	47401	PENS_T1	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
10/3/2024 20:47	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:47	44601	SALE_T2	0	0	0	0	0	0	0	0	1	1	0	300	300	0
10/3/2024 20:47	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 20:47	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 20:47	54201	PENN_T1	11	8	-3	0.72	0.64	-0.08	0.41	0.42	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/3/2024 20:47	67502	WEWI_T2	152	474	322	0.22	0.31	0.09	-1.37	-1.36	1	1	0	900	900	0
10/3/2024 20:47	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:47	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/3/2024 20:47	43301	WATS_T2	0	1	1	0	0.2	0.2	0.18	0.2	0	0	0	0	0	0
10/3/2024 20:47	57401	SPAN_T1	2	2	0	0.25	1	0.75	-0.78	-0.76	1	1	0	600	600	0
10/3/2024 20:47	63501	HEID_TBK1-2	1	1	0	1	1.4	0.4	0.52	0.61	0	0	0	0	0	0
10/3/2024 20:47	43302	WATS_T2	4	4	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:47	45902	AUBU_T1	180	330	150	0.22	0.38	0.16	-3.11	-2.91	3	3	0	1800	1800	0
10/3/2024 20:48	67605	WARW_T1	16	8	-8	0.53	0.25	-0.28	-1.09	-1.08	0	0	0	0	0	0
10/3/2024 20:48	64202	KINZ_T1	3	3	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
10/3/2024 20:48	42201	SHEN_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
10/3/2024 20:48	44502	HAMI_T2	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:48	44802	EDAN_T2	0	0	0	0	0	0	-1.54	-1.58	0	0	0	0	0	0
10/3/2024 20:48	67803	WLAN_T1	0	41	41	0	0.11	0.11	-0.8	-0.81	0	0	0	0	0	0
10/3/2024 20:48	63304	GREE_T1	0	418	418	0	0.17	0.17	0	0	0	0	0	0	0	0
10/3/2024 20:48	55001	NEWP_T1	0	3	3	0	0.15	0.15	-0.19	-0.22	0	0	0	0	0	0
10/3/2024 20:48	67804	WLAN_T1	0	28	28	0	0.13	0.13	0	0	0	0	0	0	0	0
10/3/2024 20:48	45902	AUBU_T1	180	330	150	0.22	0.38	0.16	-1.04	-0.97	1	1	0	600	600	0
10/3/2024 20:48	63601	LETO_T1	0	1	1	0	0.1	0.1	0.42	0.6	2	2	0	2100	2100	0
10/3/2024 20:48	64602	LEOL_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
10/3/2024 20:48	57401	SPAN_T1	2	2	0	0.25	1	0.75	-1.56	-1.52	2	2	0	1200	1200	0
10/3/2024 20:48	67802	WLAN_T1	0	9	9	0	0.28	0.28	0	0	0	0	0	0	0	0
10/3/2024 20:48	45502	DERR_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
10/3/2024 20:48	55002	NEWP_T1	6	6	0	0.95	1.33	0.38	-0.25	-0.25	0	0	0	0	0	0
10/3/2024 20:48	45501	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:48	63305	GREE_T1	0	12	12	0	0.19	0.19	-1.21	-1.17	0	0	0	0	0	0
10/3/2024 20:48	57403	SPAN_T1	1	22	21	0.1	0.29	0.19	0	0	0	0	0	0	0	0
10/3/2024 20:48	44505	HAMI_T2	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
10/3/2024 20:48	67805	WLAN_T1	186	499	313	0.16	0.42	0.26	0	0	0	0	0	0	0	0
10/3/2024 20:48	67801	WLAN_T1	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
10/3/2024 20:48	44801	EDAN_T2	191	251	60	0.43	0.56	0.13	0	0	0	0	0	0	0	0
10/3/2024 20:48	64201	KINZ_T1	2	5	3	0.7	0.48	-0.22	-0.73	-0.44	3	2	-1	1500	1200	-300
10/3/2024 20:48	64204	KINZ_T1	1	17	16	1.4	0.19	-1.21	0	0	0	0	0	0	0	0
10/3/2024 20:48	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:48	46101	MACI_T2	0	0	0	0	0	0	-0.54	0.72	1	0	-1	1200	0	-1200
10/3/2024 20:49	65502	MOJO_T2	37	311	274	0.1	0.34	0.24	0	0	0	0	0	0	0	0
10/3/2024 20:49	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/3/2024 20:49	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/3/2024 20:49	43302	WATS_T2	4	4	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:49	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 20:49	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:49	67805	WLAN_T1	186	499	313	0.16	0.42	0.26	0	0	0	0	0	0	0	0
10/3/2024 20:49	43304	WATS_T2	0	0	0	0	0	0	-0.19	-0.26	0	0	0	0	0	0
10/3/2024 20:49	64305	LINC_T1	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
10/3/2024 20:49	67803	WLAN_T1	0	41	41	0	0.11	0.11	-1.6	-1.61	0	0	0	0	0	0
10/3/2024 20:49	54601	SUMM_T2	13	13	0	0.74	0.48	-0.26	-1.86	-1.84	2	2	0	2100	2100	0
10/3/2024 20:49	46003	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/3/2024 20:49	67804	WLAN_T1	0	28	28	0	0.13	0.13	0	0	0	0	0	0	0	0
10/3/2024 20:49	46004	BERW_T2	1	0	-1	0.1	0	-0.1	-0.15	-0.22	0	0	0	0	0	0
10/3/2024 20:49	67801	WLAN_T1	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
10/3/2024 20:49	67802	WLAN_T1	0	9	9	0	0.28	0.28	0	0	0	0	0	0	0	0
10/3/2024 20:49	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.17	0	0	0	0	0	0
10/3/2024 20:49	54602	SUMM_T2	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
10/3/2024 20:49	41902	REED_T1	0	0	0	0	0	0	1	1.01	0	0	0	0	0	0
10/3/2024 20:49	67002	STHI_T2	0	0	0	0	0	0	0.77	0.73	0	0	0	0	0	0
10/3/2024 20:49	55002	NEWP_T1	6	6	0	0.95	1.33	0.38	-0.25	-0.25	0	0	0	0	0	0
10/3/2024 20:49	41901	REED_T1	8	8	0	0.18	0.19	0.01	0	0	0	0	0	0	0	0
10/3/2024 20:49	55001	NEWP_T1	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
10/3/2024 20:49	63501	HEID_TBK1-2	1	1	0	1	1.4	0.4	0.52	0.61	0	0	0	0	0	0
10/3/2024 20:49	64902	MILL_T2	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
10/3/2024 20:49	65503	MOJO_T2	0	133	133	0	0.17	0.17	-0.23	-0.23	0	0	0	0	0	0
10/3/2024 20:50	64801	MONE_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
10/3/2024 20:50	50201	HARR_T3	1	1	0	0.3	0.1	-0.2	0	0	1	1	0	1200	1200	0
10/3/2024 20:50	59301	MCAL_T1	2	30	28	1.8	0.25	-1.55	-1.81	-1.8	1	1	0	600	600	0
10/3/2024 20:50	60101	COCA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 20:50	14502	SCHO_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
10/3/2024 20:50	50105	HARR_T3	6	6	0	5.18	5.27	0.09	0	0	0	0	0	0	0	0
10/3/2024 20:50	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:50	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 20:50	60102	COCA_T1	0	0	0	0	0	0	-0.34	-0.2	2	2	0	1200	1200	0
10/3/2024 20:50	64802	MONE_T2	0	7	7	0	0.13	0.13	0.11	0.1	0	0	0	0	0	0
10/3/2024 20:50	50103	HARR_T3	2	2	0	1	0.95	-0.05	0	0	0	0	0	0	0	0
10/3/2024 20:50	48301	ORWI_T1	2	2	0	4.4	4.4	0	0.42	0.4	0	0	0	0	0	0
10/3/2024 20:50	50202	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/3/2024 20:50	11904	ETEX_T2	0	0	0	0	0	0	-0.73	-0.71	0	0	0	0	0	0
10/3/2024 20:50	58402	MORO_T1	0	0	0	0	0	0	0.16	0.05	2	2	0	1200	1200	0
10/3/2024 20:50	66504	SMAN_T2	0	0	0	0	0	0	-0.29	-0.37	0	0	0	0	0	0
10/3/2024 20:50	54201	PENN_T1	11	8	-3	0.72	0.64	-0.08	0.41	0.42	0	0	0	0	0	0
10/3/2024 20:50	54203	PENN_T1	18	18	0	1.33	0.95	-0.38	0.8	0.77	0	0	0	0	0	0
10/3/2024 20:50	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0.14	0.13	0	0	0	0	0	0
10/3/2024 20:50	50107	HARR_T3	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
10/3/2024 20:50	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 20:50	63304	GREE_T1	0	418	418	0	0.17	0.17	0	0	0	0	0	0	0	0
10/3/2024 20:50	59302	MCAL_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
10/3/2024 20:50	63305	GREE_T1	0	12	12	0	0.19	0.19	-1.21	-1.17	0	0	0	0	0	0
10/3/2024 20:50	50102	HARR_T3	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/3/2024 20:51	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:51	45902	AUBU_T1	180	330	150	0.22	0.38	0.16	0	0	0	0	0	0	0	0
10/3/2024 20:51	50107	HARR_T3	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
10/3/2024 20:51	66502	SMAN_T2	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
10/3/2024 20:51	57403	SPAN_T1	1	22	21	0.1	0.29	0.19	0	0	0	0	0	0	0	0
10/3/2024 20:51	57401	SPAN_T1	2	2	0	0.25	1	0.75	-1.56	-1.52	2	2	0	1200	1200	0
10/3/2024 20:51	67106	SPRI_T2	0	0	0	0	0	0	-1.11	-1.22	1	1	0	900	900	0
10/3/2024 20:51	50202	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/3/2024 20:51	45901	AUBU_T1	0	1	1	0	0.1	0.1	1.47	1.5	0	0	0	0	0	0
10/3/2024 20:51	50102	HARR_T3	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/3/2024 20:51	50103	HARR_T3	2	2	0	1	0.95	-0.05	0	0	0	0	0	0	0	0
10/3/2024 20:51	50105	HARR_T3	6	6	0	5.18	5.27	0.09	0	0	0	0	0	0	0	0
10/3/2024 20:51	45501	DERR_T2	0	1	1	0	0.1	0.1	0.08	-0.05	2	2	0	1800	1800	0
10/3/2024 20:51	50201	HARR_T3	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/3/2024 20:52	43302	WATS_T2	4	4	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:52	57401	SPAN_T1	2	2	0	0.25	1	0.75	-0.76	-0.79	1	1	0	600	600	0
10/3/2024 20:52	67801	WLAN_T1	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
10/3/2024 20:52	43304	WATS_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
10/3/2024 20:52	21206	ECAR_T2	1	1	0	7.1	7.3	0.2	1.48	1.35	0	0	0	0	0	0
10/3/2024 20:52	44801	EDAN_T2	191	251	60	0.43	0.56	0.13	0	0	0	0	0	0	0	0
10/3/2024 20:52	24702	FLND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 20:52	21204	ECAR_T2	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
10/3/2024 20:52	20403	ASHF_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
10/3/2024 20:52	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:52	65604	QVIL_T2	0	0	0	0	0	0	0.47	0.5	0	0	0	0	0	0
10/3/2024 20:52	57403	SPAN_T1	1	22	21	0.1	0.29	0.19	0	0	0	0	0	0	0	0
10/3/2024 20:52	67002	STHI_T2	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
10/3/2024 20:52	20401	ASHF_T2	3	6	3	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
10/3/2024 20:52	44802	EDAN_T2	0	0	0	0	0	0	-0.79	-0.75	0	0	0	0	0	0
10/3/2024 20:52	63305	GREE_T1	0	12	12	0	0.19	0.19	0	0	0	0	0	0	0	0
10/3/2024 20:52	54601	SUMM_T2	13	13	0	0.74	0.48	-0.26	-1.84	-1.86	2	2	0	2100	2100	0
10/3/2024 20:52	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/3/2024 20:52	67803	WLAN_T1	0	41	41	0	0.11	0.11	-0.81	-0.8	0	0	0	0	0	0
10/3/2024 20:52	63306	GREE_T1	0	0	0	0	0	0	-1.43	-1.45	1	1	0	900	900	0
10/3/2024 20:52	60101	COCA_T1	0	1	1	0	0	0	0.36	0.33	0	0	0	0	0	0
10/3/2024 20:52	63304	GREE_T1	0	418	418	0	0.17	0.17	0	0	0	0	0	0	0	0
10/3/2024 20:52	67805	WLAN_T1	186	499	313	0.16	0.42	0.26	0	0	0	0	0	0	0	0
10/3/2024 20:52	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/3/2024 20:52	20603	GRWO_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
10/3/2024 20:52	50506	MECH_T1	0	0	0	0	0	0	0.17	0.46	0	0	0	0	0	0
10/3/2024 20:52	67804	WLAN_T1	0	28	28	0	0.13	0.13	0	0	0	0	0	0	0	0
10/3/2024 20:52	59101	WALK_T2	0	0	0	0	0	0	1.42	1.35	0	0	0	0	0	0
10/3/2024 20:52	66505	SMAN_T2	0	2	2	0	0.1	0.1	0.18	0.15	1	1	0	900	900	0
10/3/2024 20:52	54602	SUMM_T2	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
10/3/2024 20:52	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/3/2024 20:52	67802	WLAN_T1	0	9	9	0	0.28	0.28	0	0	0	0	0	0	0	0
10/3/2024 20:52	50502	MECH_T1	127	134	7	0.41	0.66	0.25	0	0	0	0	0	0	0	0
10/3/2024 20:52	50501	MECH_T1	4	4	0	0.9	1.35	0.45	0	0	0	0	0	0	0	0
10/3/2024 20:53	64204	KINZ_T1	1	17	16	1.4	0.19	-1.21	0	0	0	0	0	0	0	0
10/3/2024 20:53	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
10/3/2024 20:53	59101	WALK_T2	0	0	0	0	0	0	1.42	1.35	0	0	0	0	0	0
10/3/2024 20:53	54502	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/3/2024 20:53	43304	WATS_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
10/3/2024 20:53	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:53	67002	STHI_T2	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
10/3/2024 20:53	24102	EHAZ_T1	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
10/3/2024 20:53	50501	MECH_T1	4	4	0	0.9	1.35	0.45	0.36	0.19	0	0	0	0	0	0
10/3/2024 20:53	57401	SPAN_T1	2	2	0	0.25	1	0.75	0	0	0	0	0	0	0	0
10/3/2024 20:53	54505	ENOL_T2	1	1	0	1	0.8	-0.2	-1.28	-1.29	1	1	0	600	600	0
10/3/2024 20:53	57403	SPAN_T1	1	22	21	0.1	0.29	0.19	0.07	0.06	0	0	0	0	0	0
10/3/2024 20:53	44802	EDAN_T2	0	0	0	0	0	0	-0.79	-0.75	0	0	0	0	0	0
10/3/2024 20:53	44801	EDAN_T2	191	251	60	0.43	0.56	0.13	-1.65	-1.7	0	0	0	0	0	0
10/3/2024 20:53	64201	KINZ_T1	2	5	3	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
10/3/2024 20:53	24104	EHAZ_T1	0	0	0	0	0	0	-0.84	-0.86	1	1	0	1200	1200	0
10/3/2024 20:53	24105	EHAZ_T1	4	4	0	5.78	6	0.22	0	0	0	0	0	0	0	0
10/3/2024 20:53	45802	HEGI_T2	48	48	0	1.54	2.22	0.68	0	0	0	0	0	0	0	0
10/3/2024 20:53	54601	SUMM_T2	13	13	0	0.74	0.48	-0.26	0	0	0	0	0	0	0	0
10/3/2024 20:53	43302	WATS_T2	4	4	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:53	50502	MECH_T1	127	134	7	0.41	0.66	0.25	0	0	0	0	0	0	0	0
10/3/2024 20:53	64202	KINZ_T1	3	3	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
10/3/2024 20:53	63501	HEID_TBK1-2	1	1	0	1	1.4	0.4	0.61	0.45	0	0	0	0	0	0
10/3/2024 20:53	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/3/2024 20:53	54603	SUMM_T2	0	0	0	0	0	0	0.18	0.16	1	1	0	900	900	0
10/3/2024 20:53	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/3/2024 20:53	45501	DERR_T2	0	1	1	0	0.1	0.1	0.08	-0.05	2	2	0	1800	1800	0
10/3/2024 20:53	54602	SUMM_T2	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
10/3/2024 20:53	46802	HEPB_T1	1	1	0	0.2	0.6	0.4	-0.28	-0.28	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/3/2024 20:53	10801	CHHI_T1	35	0	-35	0.13	0	-0.13	-1.95	-1.97	3	3	0	2100	2100	0
10/3/2024 20:54	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:54	50201	HARR_T3	1	1	0	0.3	0.1	-0.2	0	0	1	1	0	1200	1200	0
10/3/2024 20:54	50202	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/3/2024 20:54	50102	HARR_T3	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/3/2024 20:54	50103	HARR_T3	2	2	0	1	0.95	-0.05	0	0	0	0	0	0	0	0
10/3/2024 20:54	64204	KINZ_T1	1	17	16	1.4	0.19	-1.21	0	0	0	0	0	0	0	0
10/3/2024 20:54	42903	MIDD_T2	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
10/3/2024 20:54	61801	EELI_T2	0	1	1	0	0.1	0.1	-0.93	-0.97	1	1	0	600	600	0
10/3/2024 20:54	50105	HARR_T3	6	6	0	5.18	5.27	0.09	0	0	0	0	0	0	0	0
10/3/2024 20:54	43302	WATS_T2	4	4	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:54	50107	HARR_T3	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
10/3/2024 20:54	24204	PROV_T3	2	3	1	2.85	2.03	-0.82	0	0	0	0	0	0	0	0
10/3/2024 20:54	63801	HEMP_T1	0	0	0	0	0	0	-0.03	0.13	0	0	0	0	0	0
10/3/2024 20:54	57401	SPAN_T1	2	2	0	0.25	1	0.75	-0.76	-0.79	1	1	0	600	600	0
10/3/2024 20:54	63501	HEID_TBK1-2	1	1	0	1	1.4	0.4	0.61	0.45	0	0	0	0	0	0
10/3/2024 20:54	46101	MACI_T2	0	0	0	0	0	0	0.72	0.68	0	0	0	0	0	0
10/3/2024 20:54	57403	SPAN_T1	1	22	21	0.1	0.29	0.19	0	0	0	0	0	0	0	0
10/3/2024 20:54	24702	FLND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 20:54	43304	WATS_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
10/3/2024 20:54	24201	PROV_T3	6	80	74	1.44	0.22	-1.22	-1.47	-1.46	1	1	0	1200	1200	0
10/3/2024 20:54	64203	KINZ_T1	0	0	0	0	0	0	-0.31	-0.29	1	1	0	600	600	0
10/3/2024 20:54	67501	WEWI_T1	0	0	0	0	0	0	-1.17	-1.11	1	1	0	600	600	0
10/3/2024 20:54	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/3/2024 20:54	63804	HEMP_T1	1	1	0	6	5.6	-0.4	0	0	0	0	0	0	0	0
10/3/2024 20:54	44202	POIN_T2	0	1	1	0	0.1	0.1	-2.56	-2.52	1	1	0	1200	1200	0
10/3/2024 20:54	64201	KINZ_T1	2	5	3	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
10/3/2024 20:54	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 20:54	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 20:54	64202	KINZ_T1	3	3	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
10/3/2024 20:54	59101	WALK_T2	0	0	0	0	0	0	1.42	1.35	0	0	0	0	0	0
10/3/2024 20:55	63304	GREE_T1	0	418	418	0	0.17	0.17	-1.69	-1.74	0	0	0	0	0	0
10/3/2024 20:55	54502	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/3/2024 20:55	64801	MONE_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
10/3/2024 20:55	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/3/2024 20:55	43302	WATS_T2	4	4	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:55	44601	SALE_T2	0	0	0	0	0	0	0	0	1	1	0	300	300	0
10/3/2024 20:55	58401	MORO_T1	0	0	0	0	0	0	-0.5	-0.54	0	0	0	0	0	0
10/3/2024 20:55	54504	ENOL_T2	0	0	0	0	0	0	-1.07	-1.09	1	1	0	600	600	0
10/3/2024 20:55	43201	MVIL_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
10/3/2024 20:55	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0.13	0.13	0	0	0	0	0	0
10/3/2024 20:55	54601	SUMM_T2	13	13	0	0.74	0.48	-0.26	0	0	0	0	0	0	0	0
10/3/2024 20:55	63305	GREE_T1	0	12	12	0	0.19	0.19	0	0	0	0	0	0	0	0
10/3/2024 20:55	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 20:55	67203	TEHI_T1	0	0	0	0	0	0	2.43	2.4	2	2	0	1500	1500	0
10/3/2024 20:55	54603	SUMM_T2	0	0	0	0	0	0	0.18	0.16	1	1	0	900	900	0
10/3/2024 20:55	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:55	43202	MVIL_T2	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
10/3/2024 20:55	46801	HEPB_T2	2	2	0	0.4	0.5	0.1	0.58	0.57	0	0	0	0	0	0
10/3/2024 20:55	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 20:55	44801	EDAN_T2	191	251	60	0.43	0.56	0.13	0	0	0	0	0	0	0	0
10/3/2024 20:55	54602	SUMM_T2	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
10/3/2024 20:55	67201	TEHI_T1	0	0	0	0	0	0	-0.11	-0.23	1	1	0	900	900	0
10/3/2024 20:55	64802	MONE_T2	0	7	7	0	0.13	0.13	0.1	0.08	0	0	0	0	0	0
10/3/2024 20:55	54505	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
10/3/2024 20:55	42903	MIDD_T2	2	2	0	0.3	0.7	0.4	-0.51	-0.56	0	0	0	0	0	0
10/3/2024 20:55	44802	EDAN_T2	0	0	0	0	0	0	-0.79	-0.75	0	0	0	0	0	0
10/3/2024 20:55	45802	HEGI_T2	48	48	0	1.54	2.22	0.68	0.34	0.49	0	0	0	0	0	0
10/3/2024 20:56	46004	BERW_T2	1	0	-1	0.1	0	-0.1	-0.22	-0.26	0	0	0	0	0	0
10/3/2024 20:56	67402	WAKE_T2	0	0	0	0	0	0	-0.37	-0.36	1	1	0	600	600	0
10/3/2024 20:56	65502	MOJO_T2	37	311	274	0.1	0.34	0.24	-1.77	-1.65	1	1	0	900	900	0
10/3/2024 20:56	63804	HEMP_T1	1	1	0	6	5.6	-0.4	0.91	0.9	0	0	0	0	0	0
10/3/2024 20:56	54502	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/3/2024 20:56	65503	MOJO_T2	0	133	133	0	0.17	0.17	0	0	0	0	0	0	0	0
10/3/2024 20:56	58402	MORO_T1	0	0	0	0	0	0	0.05	0.06	2	2	0	1200	1200	0
10/3/2024 20:56	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/3/2024 20:56	54505	ENOL_T2	1	1	0	1	0.8	-0.2	-1.28	-1.29	1	1	0	600	600	0
10/3/2024 20:56	57403	SPAN_T1	1	22	21	0.1	0.29	0.19	0.07	0.06	0	0	0	0	0	0
10/3/2024 20:56	57401	SPAN_T1	2	2	0	0.25	1	0.75	-0.76	-0.79	1	1	0	600	600	0
10/3/2024 20:56	46003	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/3/2024 20:56	43302	WATS_T2	4	4	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:56	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 20:56	58401	MORO_T1	0	0	0	0	0	0	-1	-1.08	0	0	0	0	0	0
10/3/2024 20:56	20201	JERM_T1	0	0	0	0	0	0	-0.46	-0.47	2	2	0	2400	2400	0
10/3/2024 20:56	46001	BERW_T1	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
10/3/2024 20:56	43304	WATS_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
10/3/2024 20:57	21501	CEAV_T2	0	0	0	0	0	0	0.06	0.13	1	1	0	1200	1200	0
10/3/2024 20:57	42201	SHEN_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
10/3/2024 20:57	46203	DANV_T2	1	1	0	7	7.5	0.5	0	0	0	0	0	0	0	0
10/3/2024 20:57	21502	CEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 20:57	46206	DANV_T2	0	0	0	0	0	0	0.35	0.26	2	2	0	2100	2100	0
10/3/2024 20:58	43302	WATS_T2	4	4	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:58	58401	MORO_T1	0	0	0	0	0	0	-0.5	-0.54	0	0	0	0	0	0
10/3/2024 20:58	44801	EDAN_T2	191	251	60	0.43	0.56	0.13	-1.65	-1.7	0	0	0	0	0	0
10/3/2024 20:58	43802	SWIL_T1	0	0	0	0	0	0	-0.12	-0.12	1	1	0	600	600	0
10/3/2024 20:58	57401	SPAN_T1	2	2	0	0.25	1	0.75	-0.76	-0.79	1	1	0	600	600	0
10/3/2024 20:58	42903	MIDD_T2	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
10/3/2024 20:58	44301	BEAV_T2	0	0	0	0	0	0	-0.72	-0.78	1	1	0	600	600	0
10/3/2024 20:58	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/3/2024 20:58	42902	MIDD_T2	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
10/3/2024 20:58	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0.13	0.13	0	0	0	0	0	0
10/3/2024 20:58	57403	SPAN_T1	1	22	21	0.1	0.29	0.19	0	0	0	0	0	0	0	0
10/3/2024 20:58	43801	SWIL_T1	2	4	2	3.3	1.7	-1.6	0	0	0	0	0	0	0	0
10/3/2024 20:58	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 20:59	55002	NEWP_T1	6	6	0	0.95	1.33	0.38	-0.25	-0.25	0	0	0	0	0	0
10/3/2024 20:59	44502	HAMI_T2	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
10/3/2024 20:59	42903	MIDD_T2	2	2	0	0.3	0.7	0.4	-0.51	-0.56	0	0	0	0	0	0
10/3/2024 20:59	63302	GREE_T1	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
10/3/2024 20:59	44702	MUNC_T2	196	165	-31	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
10/3/2024 20:59	63305	GREE_T1	0	12	12	0	0.19	0.19	0	0	0	0	0	0	0	0
10/3/2024 20:59	63801	HEMP_T1	0	0	0	0	0	0	-0.03	0.13	0	0	0	0	0	0
10/3/2024 20:59	63304	GREE_T1	0	418	418	0	0.17	0.17	0	0	0	0	0	0	0	0
10/3/2024 20:59	44701	MUNC_T2	246	263	17	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
10/3/2024 20:59	44703	MUNC_T2	2	2	0	1.55	1.6	0.05	0	0	0	0	0	0	0	0
10/3/2024 20:59	55001	NEWP_T1	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
10/3/2024 20:59	44301	BEAV_T2	0	0	0	0	0	0	-0.72	-0.78	1	1	0	600	600	0
10/3/2024 20:59	63804	HEMP_T1	1	1	0	6	5.6	-0.4	0	0	0	0	0	0	0	0
10/3/2024 20:59	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 21:00	40801	EXCH_T2	0	0	0	0	0	0	0.85	0.83	0	0	0	0	0	0
10/3/2024 21:00	57401	SPAN_T1	2	2	0	0.75	1	0.25	0	0	0	0	0	0	0	0
10/3/2024 21:00	57403	SPAN_T1	19	28	9	0.27	0.26	-0.01	0.07	0.06	0	0	0	0	0	0
10/3/2024 21:00	67605	WARW_T1	8	13	5	0.23	0.37	0.14	-1.08	-1.11	0	0	0	0	0	0
10/3/2024 21:01	66504	SMAN_T2	0	0	0	0	0	0	-0.37	-0.31	0	0	0	0	0	0
10/3/2024 21:01	55105	WERT_T1	0	0	0	0	0	0	-0.45	-0.49	1	1	0	900	900	0
10/3/2024 21:01	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2024 21:01	66505	SMAN_T2	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
10/3/2024 21:01	41901	REED_T1	7	7	0	0.17	0.2	0.03	0	0	0	0	0	0	0	0
10/3/2024 21:03	44802	EDAN_T2	0	0	0	0	0	0	-0.79	-0.75	0	0	0	0	0	0
10/3/2024 21:03	44801	EDAN_T2	227	266	39	0.5	0.58	0.08	0	0	0	0	0	0	0	0
10/3/2024 21:06	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/3/2024 21:06	59101	WALK_T2	0	0	0	0	0	0	1.42	1.35	0	0	0	0	0	0
10/3/2024 21:26	65202	PRIN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/3/2024 21:26	65205	PRIN_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
10/3/2024 21:31	41301	FISH_T1	2	2	0	1.55	0.8	-0.75	-0.06	-0.05	0	0	0	0	0	0
10/3/2024 22:17	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
10/3/2024 23:02	10801	CHHI_T1	0	0	0	0	0	0	-1.45	-1.45	2	2	0	1500	1500	0
10/3/2024 23:03	50103	HARR_T3	2	2	0	0.95	0.55	-0.4	0	0	0	0	0	0	0	0
10/3/2024 23:03	50105	HARR_T3	6	7	1	5.35	5.48	0.13	0	0	0	0	0	0	0	0
10/3/2024 23:03	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/3/2024 23:03	50202	HARR_T3	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/3/2024 23:03	50107	HARR_T3	1	1	0	5.9	6.2	0.3	0	0	0	0	0	0	0	0
10/4/2024 8:07	15603	NSTR_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
10/4/2024 8:07	15601	NSTR_T2	3	1	-2	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/4/2024 8:17	13303	ORVI_T1	0	0	0	0	0	0	-0.31	-0.28	0	0	0	0	0	0
10/4/2024 8:23	46001	BERW_T1	0	0	0	0	0	0	-0.59	-0.56	0	0	0	0	0	0
10/4/2024 8:26	46001	BERW_T1	0	0	0	0	0	0	-0.59	-0.56	0	0	0	0	0	0
10/4/2024 8:30	13501	MCMI_T1	0	0	0	0	0	0	0.03	0.09	0	0	0	0	0	0
10/4/2024 8:32	11202	ELHE_T2	0	0	0	0	0	0	0.47	0.48	1	1	0	1200	1200	0
10/4/2024 8:32	13303	ORVI_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
10/4/2024 8:34	13303	ORVI_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
10/4/2024 8:34	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 8:38	67501	WEWI_T1	0	0	0	0	0	0	-1.1	-1.15	1	1	0	600	600	0
10/4/2024 8:51	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 8:51	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 8:52	67503	WEWI_T2	1	2	1	8.5	8.8	0.3	0	0	0	0	0	0	0	0
10/4/2024 8:52	67502	WEWI_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
10/4/2024 8:52	45301	WBER_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 8:52	45302	WBER_T2	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
10/4/2024 9:05	13701	SCHN_T2	0	0	0	0	0	0	-0.12	-0.09	1	1	0	600	600	0
10/4/2024 9:08	13704	SCHN_T2	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
10/4/2024 9:09	13704	SCHN_T2	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
10/4/2024 9:13	27101	GFLD_T2	0	1	1	0	0	0	0	0	1	1	0	600	600	0
10/4/2024 9:16	50505	MECH_T1	0	0	0	0	0	0	-0.93	-0.87	0	0	0	0	0	0
10/4/2024 9:16	50502	MECH_T1	1	1	0	1.4	1.8	0.4	0	0	0	0	0	0	0	0
10/4/2024 9:19	55002	NEWP_T1	4	6	2	1	1.18	0.18	-0.25	-0.25	0	0	0	0	0	0
10/4/2024 9:19	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/4/2024 9:23	67503	WEWI_T2	1	1	0	8.4	8.9	0.5	-0.23	-0.25	0	0	0	0	0	0
10/4/2024 9:23	67502	WEWI_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
10/4/2024 9:24	67503	WEWI_T2	1	1	0	8.4	8.9	0.5	-0.23	-0.25	0	0	0	0	0	0
10/4/2024 9:33	10205	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 9:33	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 9:33	10101	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 9:36	24105	EHAZ_T1	4	4	0	6.35	6.25	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/4/2024 9:36	24102	EHAZ_T1	0	0	0	0	0	0	0.84	0.9	0	0	0	0	0	0
10/4/2024 9:39	22002	BOHE_T1	0	7	7	0	0.17	0.17	0.31	0.36	0	0	0	0	0	0
10/4/2024 9:39	44601	SALE_T2	0	0	0	0	0	0	0	0	1	1	0	600	300	-300
10/4/2024 9:39	22003	BOHE_T1	229	363	134	0.36	0.58	0.22	0	0	0	0	0	0	0	0
10/4/2024 9:39	22001	BOHE_T1	0	141	141	0	0.24	0.24	0	0	0	0	0	0	0	0
10/4/2024 9:40	67505	WEWI_T1	0	0	0	0	0	0	-0.2	-0.2	1	1	0	900	900	0
10/4/2024 9:42	50625	CCTY_T2	4	4	0	3.33	3.33	0	0	0	0	0	0	0	0	0
10/4/2024 9:42	50623	CCTY_T2	5	5	0	5.62	5.72	0.1	0	0	0	0	0	0	0	0
10/4/2024 9:42	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 9:42	50624	CCTY_T2	2	2	0	5.95	6.15	0.2	0	0	0	0	0	0	0	0
10/4/2024 9:43	46001	BERW_T1	0	0	0	0	0	0	0.32	0.58	0	0	0	0	0	0
10/4/2024 9:45	64902	MILL_T2	0	0	0	0	0	0	-0.65	-0.57	1	1	0	900	900	0
10/4/2024 9:46	24201	PROV_T3	26	8	-18	0.34	0.88	0.54	-1.53	-1.52	1	1	0	1200	1200	0
10/4/2024 9:46	24204	PROV_T3	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
10/4/2024 9:47	24105	EHAZ_T1	4	4	0	6.28	6.28	0	0	0	0	0	0	0	0	0
10/4/2024 9:47	24102	EHAZ_T1	0	0	0	0	0	0	0.9	0.96	0	0	0	0	0	0
10/4/2024 9:48	24204	PROV_T3	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
10/4/2024 9:48	24201	PROV_T3	26	8	-18	0.34	0.88	0.54	-1.53	-1.52	1	1	0	1200	1200	0
10/4/2024 9:50	24202	PROV_T4	0	1	1	0	0	0	0	0	1	1	0	1200	1200	0
10/4/2024 9:50	24206	PROV_T4	1	1	0	0.4	1.7	1.3	0	0	0	0	0	0	0	0
10/4/2024 9:53	67402	WAKE_T2	0	0	0	0	0	0	0.36	0.34	1	1	0	600	600	0
10/4/2024 9:56	50105	HARR_T3	6	7	1	5.82	5.63	-0.19	0	0	0	0	0	0	0	0
10/4/2024 9:56	50107	HARR_T3	1	1	0	6.3	6.6	0.3	0	0	0	0	0	0	0	0
10/4/2024 9:56	50201	HARR_T3	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/4/2024 9:57	10805	CHHI_T2	1	1	0	7.2	7	-0.2	-1.61	-1.65	2	2	0	1800	1800	0
10/4/2024 10:00	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-1	-0.98	0	0	0	0	0	0
10/4/2024 10:00	59002	MIFF_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
10/4/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
10/4/2024 10:00	59003	MIFF_T1	1	0	-1	0.2	0	-0.2	-0.53	-0.44	0	0	0	0	0	0
10/4/2024 10:00	10101	ALLE_T3	1	1	0	6.3	0	-6.3	0	0	0	0	0	0	0	0
10/4/2024 10:01	65501	MOJO_T1	0	0	0	0	0	0	-0.96	-0.94	1	1	0	900	900	0
10/4/2024 10:06	12802	MICK_T1	0	0	0	0	0	0	-0.98	-1.01	0	0	0	0	0	0
10/4/2024 10:06	61801	EELI_T2	0	0	0	0	0	0	-0.73	-0.71	1	1	0	600	600	0
10/4/2024 10:06	12807	MICK_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
10/4/2024 10:07	45302	WBER_T2	0	0	0	0	0	0	0.63	0.57	0	0	0	0	0	0
10/4/2024 10:08	24105	EHAZ_T1	4	4	0	6.43	6.33	-0.1	-0.67	-0.7	0	0	0	0	0	0
10/4/2024 10:08	24102	EHAZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 10:09	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 10:10	67503	WEWI_T2	1	1	0	9	8.8	-0.2	0	0	0	0	0	0	0	0
10/4/2024 10:10	45303	WBER_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
10/4/2024 10:10	67502	WEWI_T2	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
10/4/2024 10:11	44801	EDAN_T2	148	161	13	0.39	0.44	0.05	-1.67	-1.68	0	0	0	0	0	0
10/4/2024 10:12	50105	HARR_T3	6	7	1	5.63	5.68	0.05	0	0	0	0	0	0	0	0
10/4/2024 10:12	27101	GFLD_T2	1	0	-1	1.7	0	-1.7	0	0	1	1	0	600	600	0
10/4/2024 10:12	50201	HARR_T3	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
10/4/2024 10:12	10805	CHHI_T2	1	1	0	7	7.2	0.2	-1.65	-1.52	2	2	0	1800	1800	0
10/4/2024 10:12	50107	HARR_T3	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
10/4/2024 10:17	55002	NEWP_T1	6	6	0	0.63	0.5	-0.13	-0.23	-0.26	0	0	0	0	0	0
10/4/2024 10:17	55001	NEWP_T1	0	0	0	0	0	0	-0.16	-0.11	0	0	0	0	0	0
10/4/2024 10:18	25402	LAHA_T2	0	0	0	0	0	0	-0.68	-0.83	0	0	0	0	0	0
10/4/2024 10:19	15702	TANN_T2	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
10/4/2024 10:19	15703	TANN_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
10/4/2024 10:20	21501	CEAV_T2	0	0	0	0	0	0	1.76	1.8	0	0	0	0	0	0
10/4/2024 10:20	13303	ORVI_T1	0	0	0	0	0	0	-0.2	-0.1	0	0	0	0	0	0
10/4/2024 10:23	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 10:24	50201	HARR_T3	1	1	0	0.2	0.5	0.3	0	0	1	1	0	1200	1200	0
10/4/2024 10:24	50107	HARR_T3	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
10/4/2024 10:24	50103	HARR_T3	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
10/4/2024 10:24	50202	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 10:24	50105	HARR_T3	7	6	-1	5.57	5.6	0.03	0	0	0	0	0	0	0	0
10/4/2024 10:26	50201	HARR_T3	1	1	0	0.2	0.5	0.3	0	0	1	1	0	1200	1200	0
10/4/2024 10:26	10801	CHHI_T1	0	0	0	0	0	0	-1.26	-1.21	2	2	0	1500	1500	0
10/4/2024 10:26	50202	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 10:26	50105	HARR_T3	7	6	-1	5.57	5.6	0.03	0	0	0	0	0	0	0	0
10/4/2024 10:26	50107	HARR_T3	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
10/4/2024 10:26	50103	HARR_T3	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
10/4/2024 10:28	63501	HEID_TBK1-2	1	1	0	1.8	1.5	-0.3	0.67	0.63	0	0	0	0	0	0
10/4/2024 10:29	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 10:30	22602	KIMB_T1	1	2	1	0.2	0.35	0.15	0.3	0.33	0	0	0	0	0	0
10/4/2024 10:30	22601	KIMB_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/4/2024 10:31	45901	AUBU_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/4/2024 10:31	45902	AUBU_T1	3	5	2	0.4	0.56	0.16	-0.68	-0.56	1	1	0	600	600	0
10/4/2024 10:32	45902	AUBU_T1	3	5	2	0.4	0.56	0.16	-1.36	-1.13	2	2	0	1200	1200	0
10/4/2024 10:32	45901	AUBU_T1	0	2	2	0	0.35	0.35	1.11	1.13	0	0	0	0	0	0
10/4/2024 10:34	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/4/2024 10:35	45902	AUBU_T1	3	5	2	0.4	0.56	0.16	0	0	0	0	0	0	0	0
10/4/2024 10:35	45901	AUBU_T1	0	2	2	0	0.35	0.35	2.23	2.27	0	0	0	0	0	0
10/4/2024 10:36	45901	AUBU_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/4/2024 10:36	64602	LEOL_T1	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
10/4/2024 10:36	45902	AUBU_T1	3	5	2	0.4	0.56	0.16	-0.68	-0.56	1	1	0	600	600	0
10/4/2024 10:42	67604	WARW_T1	0	0	0	0	0	0	0.62	0.65	0	0	0	0	0	0
10/4/2024 10:42	67605	WARW_T1	11	3	-8	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/4/2024 10:43	22601	KIMB_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/4/2024 10:43	22602	KIMB_T1	1	2	1	0.2	0.35	0.15	0.33	0.33	0	0	0	0	0	0
10/4/2024 10:43	63305	GREE_T1	0	1	1	0	0.2	0.2	-1.87	-1.86	1	1	0	900	900	0
10/4/2024 10:44	48901	FOSP_T2	0	1	1	0	0.2	0.2	-0.01	0.01	1	1	0	600	600	0
10/4/2024 10:44	63305	GREE_T1	0	1	1	0	0.2	0.2	-1.87	-1.86	1	1	0	900	900	0
10/4/2024 10:46	65503	MOJO_T2	0	0	0	0	0	0	-1.13	-1.09	1	1	0	900	900	0
10/4/2024 10:47	12807	MICK_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
10/4/2024 10:47	12803	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 10:47	12801	MICK_T1	0	0	0	0	0	0	-0.15	-0.1	0	0	0	0	0	0
10/4/2024 10:48	44201	POIN_T1	0	0	0	0	0	0	0	0	2	2	0	2100	2100	0
10/4/2024 10:49	12807	MICK_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
10/4/2024 10:49	12803	MICK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 10:49	12801	MICK_T1	0	0	0	0	0	0	-0.15	-0.1	0	0	0	0	0	0
10/4/2024 10:50	65502	MOJO_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
10/4/2024 10:53	24105	EHAZ_T1	4	4	0	6.58	6.45	-0.13	0	0	0	0	0	0	0	0
10/4/2024 10:53	43301	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/4/2024 10:53	24104	EHAZ_T1	0	0	0	0	0	0	-0.77	-0.78	1	1	0	1200	1200	0
10/4/2024 10:53	24102	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 10:53	43304	WATS_T2	0	0	0	0	0	0	-0.6	-0.56	0	0	0	0	0	0
10/4/2024 10:54	16101	BING_T2	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
10/4/2024 10:55	43301	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/4/2024 10:55	43304	WATS_T2	0	0	0	0	0	0	-0.6	-0.56	0	0	0	0	0	0
10/4/2024 10:56	50105	HARR_T3	6	7	1	5.62	5.58	-0.04	0	0	0	0	0	0	0	0
10/4/2024 10:56	50201	HARR_T3	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/4/2024 10:56	50103	HARR_T3	2	2	0	0.75	0.3	-0.45	0	0	0	0	0	0	0	0
10/4/2024 10:56	50107	HARR_T3	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
10/4/2024 10:59	60801	BUCK_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
10/4/2024 11:04	64902	MILL_T2	0	0	0	0	0	0	-0.57	-0.56	1	1	0	900	900	0
10/4/2024 11:05	66502	SMAN_T2	0	0	0	0	0	0	0.47	0.4	0	0	0	0	0	0
10/4/2024 11:05	64902	MILL_T2	0	0	0	0	0	0	-0.57	-0.56	1	1	0	900	900	0
10/4/2024 11:06	48302	ORWI_T2	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0	0
10/4/2024 11:06	66502	SMAN_T2	0	0	0	0	0	0	0.4	0.63	0	0	0	0	0	0
10/4/2024 11:07	66502	SMAN_T2	0	0	0	0	0	0	0.4	0.63	0	0	0	0	0	0
10/4/2024 11:07	45902	AUBU_T1	5	4	-1	0.56	0.48	-0.08	-0.57	-0.57	1	1	0	600	600	0
10/4/2024 11:07	45901	AUBU_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
10/4/2024 11:08	15203	SFAR_T2	2	1	-1	0.1	0.1	0	-1.21	-1.21	0	0	0	0	0	0
10/4/2024 11:09	15203	SFAR_T2	2	1	-1	0.1	0.1	0	-1.21	-1.21	0	0	0	0	0	0
10/4/2024 11:09	15203	SFAR_T2	2	1	-1	0.1	0.1	0	-1.21	-2.42	0	0	0	0	0	0
10/4/2024 11:09	15203	SFAR_T2	2	1	-1	0.1	0.1	0	-2.42	-1.21	0	0	0	0	0	0
10/4/2024 11:09	15203	SFAR_T2	2	1	-1	0.1	0.1	0	-2.42	-2.42	0	0	0	0	0	0
10/4/2024 11:10	66502	SMAN_T2	0	0	0	0	0	0	0.2	0.31	0	0	0	0	0	0
10/4/2024 11:11	15203	SFAR_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/4/2024 11:11	15204	SFAR_T2	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
10/4/2024 11:13	20603	GRWO_T2	0	0	0	0	0	0	-0.68	-0.67	1	1	0	900	900	0
10/4/2024 11:13	20601	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 11:14	44502	HAMI_T2	1	1	0	2.6	2.8	0.2	0	0	0	0	0	0	0	0
10/4/2024 11:14	63802	HEMP_T1	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
10/4/2024 11:14	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 11:14	63804	HEMP_T1	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
10/4/2024 11:15	45501	DERR_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/4/2024 11:15	44505	HAMI_T2	0	0	0	0	0	0	0.88	0.82	0	0	0	0	0	0
10/4/2024 11:15	63804	HEMP_T1	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
10/4/2024 11:15	44502	HAMI_T2	1	1	0	2.8	2.6	-0.2	0	0	0	0	0	0	0	0
10/4/2024 11:15	45502	DERR_T2	1	1	0	0.1	0.2	0.1	0.53	0.53	0	0	0	0	0	0
10/4/2024 11:15	63802	HEMP_T1	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
10/4/2024 11:16	15703	TANN_T2	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
10/4/2024 11:16	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.34	0	0	0	0	0	0
10/4/2024 11:17	64704	UTI_T1	0	0	0	0	0	0	0.4	0.5	1	1	0	600	600	0
10/4/2024 11:18	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.34	0	0	0	0	0	0
10/4/2024 11:18	15703	TANN_T2	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
10/4/2024 11:19	64904	MILL_T1	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
10/4/2024 11:20	61101	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/4/2024 11:20	65207	PRIN_T4	14	7	-7	0.16	0.19	0.03	0	0	0	0	0	0	0	0
10/4/2024 11:20	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 11:20	15703	TANN_T2	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
10/4/2024 11:20	65206	PRIN_T4	1	2	1	5.1	0	-5.1	0	0	0	0	0	0	0	0
10/4/2024 11:20	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.34	0	0	0	0	0	0
10/4/2024 11:23	14801	TREI_T2	1	7	6	0.3	0.36	0.06	0.36	0.35	0	0	0	0	0	0
10/4/2024 11:24	14801	TREI_T2	1	7	6	0.3	0.36	0.06	0.36	0.35	0	0	0	0	0	0
10/4/2024 11:28	64704	UTI_T1	0	0	0	0	0	0	0.5	0.4	1	1	0	600	600	0
10/4/2024 11:30	21206	ECAR_T2	1	1	0	7.2	7.2	0	0.27	0.28	0	0	0	0	0	0
10/4/2024 11:30	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 11:32	57403	SPAN_T1	7	11	4	0.13	0.18	0.05	0	0	0	0	0	0	0	0
10/4/2024 11:32	45802	HEGI_T2	25	150	125	0.46	0.38	-0.08	2.57	2.61	0	0	0	0	0	0
10/4/2024 11:32	57401	SPAN_T1	2	5	3	0.5	0.4	-0.1	-0.87	-0.98	1	1	0	600	600	0
10/4/2024 11:34	57403	SPAN_T1	7	11	4	0.13	0.18	0.05	0	0	0	0	0	0	0	0
10/4/2024 11:34	57401	SPAN_T1	2	5	3	0.5	0.4	-0.1	-0.87	-0.98	1	1	0	600	600	0
10/4/2024 11:35	15203	SFAR_T2	1	6	5	0.1	0.23	0.13	-1.21	-1.24	0	0	0	0	0	0
10/4/2024 11:35	57401	SPAN_T1	2	5	3	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/4/2024 11:35	57403	SPAN_T1	7	11	4	0.13	0.18	0.05	0	0.02	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/4/2024 11:36	57403	SPAN_T1	7	11	4	0.13	0.18	0.05	0	0	0	0	0	0	0	0
10/4/2024 11:36	57401	SPAN_T1	2	5	3	0.5	0.4	-0.1	-1.75	-1.96	2	2	0	1200	1200	0
10/4/2024 11:39	15203	SFAR_T2	1	6	5	0.1	0.23	0.13	-1.24	-1.21	0	0	0	0	0	0
10/4/2024 11:39	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
10/4/2024 11:41	15203	SFAR_T2	1	6	5	0.1	0.23	0.13	-1.24	-1.21	0	0	0	0	0	0
10/4/2024 11:43	43301	WATS_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/4/2024 11:43	43304	WATS_T2	0	0	0	0	0	0	-0.53	-0.49	0	0	0	0	0	0
10/4/2024 11:46	61502	EPET_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
10/4/2024 11:48	45802	HEGI_T2	72	150	78	0.38	0.39	0.01	0	0	0	0	0	0	0	0
10/4/2024 11:50	64701	LITI_T1	0	0	0	0	0	0	0.36	0.31	0	0	0	0	0	0
10/4/2024 11:53	67201	TEHI_T1	0	0	0	0	0	0	0.95	1.02	1	1	0	900	900	0
10/4/2024 11:53	15203	SFAR_T2	4	5	1	0.13	0.26	0.13	0	0	0	0	0	0	0	0
10/4/2024 11:55	15203	SFAR_T2	4	5	1	0.13	0.26	0.13	-2.42	-2.4	0	0	0	0	0	0
10/4/2024 11:55	14801	TREI_T2	6	1	-5	0.38	0.7	0.32	0.37	0.35	0	0	0	0	0	0
10/4/2024 12:02	40601	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/4/2024 12:02	40602	PIGR_T1	1	1	0	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
10/4/2024 12:09	22001	BOHE_T1	1	5	4	0.1	0.16	0.06	0.22	0.23	0	0	0	0	0	0
10/4/2024 12:09	22003	BOHE_T1	232	244	12	0.37	0.43	0.06	0	0	0	0	0	0	0	0
10/4/2024 12:10	22003	BOHE_T1	232	244	12	0.37	0.43	0.06	-0.2	-0.2	0	0	0	0	0	0
10/4/2024 12:10	22001	BOHE_T1	1	5	4	0.1	0.16	0.06	0	0	0	0	0	0	0	0
10/4/2024 12:11	43802	SWIL_T1	0	0	0	0	0	0	-0.18	-0.16	1	1	0	600	600	0
10/4/2024 12:11	43801	SWIL_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
10/4/2024 12:13	67503	WEWI_T2	1	1	0	8.8	8.8	0	0	0	0	0	0	0	0	0
10/4/2024 12:13	67502	WEWI_T2	0	0	0	0	0	0	-0.31	-0.25	0	0	0	0	0	0
10/4/2024 12:14	23202	HIRU_T2	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
10/4/2024 12:14	60801	BUCK_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
10/4/2024 12:14	23203	HIRU_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 12:17	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
10/4/2024 12:17	63801	HEMP_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
10/4/2024 12:19	21206	ECAR_T2	1	2	1	6.6	6.9	0.3	0	0	0	0	0	0	0	0
10/4/2024 12:19	42002	MNVL_T2	1	1	0	4.3	4.9	0.6	0.45	0.59	0	0	0	0	0	0
10/4/2024 12:19	21204	ECAR_T2	1	1	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
10/4/2024 12:19	42001	MNVL_T2	125	90	-35	0.36	0.4	0.04	0	0	0	0	0	0	0	0
10/4/2024 12:20	42201	SHEN_T2	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
10/4/2024 12:21	54601	SUMM_T2	5	3	-2	1.72	2.7	0.98	-1.8	-1.79	2	2	0	2100	2100	0
10/4/2024 12:23	13704	SCHN_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
10/4/2024 12:23	42201	SHEN_T2	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
10/4/2024 12:24	60701	BREC_T1	0	0	0	0	0	0	-0.81	0.23	4	4	0	2400	2400	0
10/4/2024 12:25	14502	SCHO_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
10/4/2024 12:25	60701	BREC_T1	0	0	0	0	0	0	-1.22	0.34	6	6	0	3600	3600	0
10/4/2024 12:26	60701	BREC_T1	0	0	0	0	0	0	-0.41	0.11	2	2	0	1200	1200	0
10/4/2024 12:28	60701	BREC_T1	0	0	0	0	0	0	-0.81	0.23	4	4	0	2400	2400	0
10/4/2024 12:29	60701	BREC_T1	0	0	0	0	0	0	-0.41	0.11	2	2	0	1200	1200	0
10/4/2024 12:32	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 12:41	45502	DERR_T2	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
10/4/2024 12:41	45501	DERR_T2	0	1	1	0	7.9	7.9	0.38	0.43	2	2	0	1800	1800	0
10/4/2024 12:43	45502	DERR_T2	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
10/4/2024 12:43	45501	DERR_T2	0	1	1	0	7.9	7.9	0.38	0.43	2	2	0	1800	1800	0
10/4/2024 12:45	46801	HEPB_T2	2	2	0	0.4	0.2	-0.2	0.59	0.57	0	0	0	0	0	0
10/4/2024 12:55	44601	SALE_T2	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/4/2024 12:56	15602	NSTR_T2	0	0	0	0	0	0	0.17	0.27	0	0	0	0	0	0
10/4/2024 12:56	15603	NSTR_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
10/4/2024 12:56	15601	NSTR_T2	3	3	0	0.23	0.4	0.17	0	0	0	0	0	0	0	0
10/4/2024 12:56	44801	EDAN_T2	141	131	-10	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
10/4/2024 12:56	44802	EDAN_T2	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
10/4/2024 12:58	44802	EDAN_T2	0	0	0	0	0	0	-2.16	-2.1	0	0	0	0	0	0
10/4/2024 12:58	44801	EDAN_T2	141	131	-10	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
10/4/2024 12:59	44601	SALE_T2	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/4/2024 12:59	44802	EDAN_T2	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
10/4/2024 12:59	44801	EDAN_T2	141	131	-10	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
10/4/2024 13:00	44802	EDAN_T2	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
10/4/2024 13:00	44801	EDAN_T2	125	114	-11	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
10/4/2024 13:07	65502	MOJO_T2	0	0	0	0	0	0	0.32	0.08	0	0	0	0	0	0
10/4/2024 13:09	14802	TREI_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
10/4/2024 13:10	14802	TREI_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
10/4/2024 13:11	14802	TREI_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
10/4/2024 13:17	23403	HONE_T1	1	0	-1	0.2	0	-0.2	-0.51	-0.5	0	0	0	0	0	0
10/4/2024 13:22	66503	SMAN_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
10/4/2024 13:25	42201	SHEN_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
10/4/2024 13:32	64305	LINC_T1	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
10/4/2024 13:33	46503	LOHA_T1	1	1	0	0.7	0.2	-0.5	-0.61	-0.61	0	0	0	0	0	0
10/4/2024 13:33	46504	LOHA_T1	2	2	0	0.5	1	0.5	0	0	0	0	0	0	0	0
10/4/2024 13:33	46506	LOHA_T1	6	5	-1	2.83	3.34	0.51	0	0	0	0	0	0	0	0
10/4/2024 13:37	66504	SMAN_T2	0	0	0	0	0	0	-0.16	-0.25	0	0	0	0	0	0
10/4/2024 13:38	16102	BING_T2	0	0	0	0	0	0	0.03	0.09	1	1	0	1200	1200	0
10/4/2024 13:39	66504	SMAN_T2	0	0	0	0	0	0	-0.16	-0.25	0	0	0	0	0	0
10/4/2024 13:40	66504	SMAN_T2	0	0	0	0	0	0	-0.16	-0.25	0	0	0	0	0	0
10/4/2024 13:42	46503	LOHA_T1	1	1	0	0.7	0.2	-0.5	-0.61	-0.61	0	0	0	0	0	0
10/4/2024 13:42	46504	LOHA_T1	2	2	0	0.5	1	0.5	0	0	0	0	0	0	0	0
10/4/2024 13:42	46506	LOHA_T1	6	5	-1	2.83	3.34	0.51	0	0	0	0	0	0	0	0
10/4/2024 13:46	63803	HEMP_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
10/4/2024 13:46	63804	HEMP_T1	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
10/4/2024 13:47	64902	MILL_T2	0	0	0	0	0	0	-0.41	-0.48	1	1	0	900	900	0
10/4/2024 13:49	65205	PRIN_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
10/4/2024 13:56	46004	BERW_T2	0	1	1	0	0.2	0.2	-0.52	0.4	0	0	0	0	0	0
10/4/2024 13:56	44601	SALE_T2	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/4/2024 13:59	46004	BERW_T2	0	1	1	0	0.2	0.2	-0.52	-0.4	0	0	0	0	0	0
10/4/2024 14:03	50502	MECH_T1	2	1	-1	1.45	2.8	1.35	1472.83	1473.12	2	2	0	2100	2100	0
10/4/2024 14:03	65503	MOJO_T2	0	0	0	0	0	0	-0.97	-0.96	1	1	0	900	900	0
10/4/2024 14:03	50501	MECH_T1	4	4	0	1.25	1.43	0.18	0	0	0	0	0	0	0	0
10/4/2024 14:03	65501	MOJO_T1	0	0	0	0	0	0	-0.8	-0.84	1	1	0	900	900	0
10/4/2024 14:11	59101	WALK_T2	1	4	3	2.8	0.4	-2.4	1.28	0.64	0	0	0	0	0	0
10/4/2024 14:25	44301	BEAV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/4/2024 14:26	67402	WAKE_T2	0	0	0	0	0	0	-0.33	-0.35	1	1	0	600	600	0
10/4/2024 14:31	21504	CEAV_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
10/4/2024 14:35	57403	SPAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 14:35	57401	SPAN_T1	2	3	1	0.1	0.5	0.4	-0.6	-0.85	1	1	0	600	600	0
10/4/2024 14:36	57403	SPAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 14:36	57401	SPAN_T1	2	3	1	0.1	0.5	0.4	-0.6	-0.85	1	1	0	600	600	0
10/4/2024 14:39	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
10/4/2024 14:45	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
10/4/2024 14:48	28102	TWLA_T2	7	6	-1	0.39	0.32	-0.07	0.18	0.19	0	0	0	0	0	0
10/4/2024 14:48	66302	MCGO_T2	0	0	0	0	0	0	-1.99	-1.48	1	1	0	600	600	0
10/4/2024 14:49	66302	MCGO_T2	0	0	0	0	0	0	-1.99	-1.48	1	1	0	600	600	0
10/4/2024 15:02	50501	MECH_T1	4	4	0	1.25	1.33	0.08	-0.32	-0.35	0	0	0	0	0	0
10/4/2024 15:02	50502	MECH_T1	1	5	4	2.8	0.66	-2.14	0	0	0	0	0	0	0	0
10/4/2024 15:08	65001	NEFF_T2	0	0	0	0	0	0	-0.81	-0.8	1	1	0	1200	1200	0
10/4/2024 15:10	61002	DONV_T2	0	0	0	0	0	0	-0.8	-0.92	2	2	0	1200	1200	0
10/4/2024 15:15	40801	EXCH_T2	0	1	1	0	0.1	0.1	-0.39	-0.06	1	1	0	1200	1200	0
10/4/2024 15:15	40802	EXCH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/4/2024 15:16	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/4/2024 15:21	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/4/2024 15:27	67605	WARW_T1	7	6	-1	0.37	0.42	0.05	0	0	0	0	0	0	0	0
10/4/2024 15:27	67603	WARW_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
10/4/2024 15:37	50103	HARR_T3	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
10/4/2024 15:37	50107	HARR_T3	1	1	0	6.2	6.6	0.4	0	0	0	0	0	0	0	0
10/4/2024 15:37	50105	HARR_T3	6	6	0	5.42	5.3	-0.12	0	0	0	0	0	0	0	0
10/4/2024 15:37	50201	HARR_T3	2	1	-1	2.95	0.9	-2.05	0	0	1	1	0	1200	1200	0
10/4/2024 15:40	67603	WARW_T1	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
10/4/2024 15:40	67605	WARW_T1	5	7	2	0.36	0.47	0.11	0	0	0	0	0	0	0	0
10/4/2024 15:42	67603	WARW_T1	0	0	0	0	0	0	-0.06	0	0	0	0	0	0	0
10/4/2024 15:42	67605	WARW_T1	5	7	2	0.36	0.47	0.11	0	0	0	0	0	0	0	0
10/4/2024 15:45	21601	EYNO_T1	0	0	0	0	0	0	0.25	0.32	0	0	0	0	0	0
10/4/2024 15:46	67603	WARW_T1	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
10/4/2024 15:46	67605	WARW_T1	6	10	4	0.42	0.51	0.09	0	0	0	0	0	0	0	0
10/4/2024 15:47	44703	MUNC_T2	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
10/4/2024 15:47	59301	MCAL_T1	9	21	12	0.62	0.39	-0.23	-1.48	-1.7	1	1	0	600	600	0
10/4/2024 15:47	44701	MUNC_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/4/2024 15:47	59302	MCAL_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/4/2024 15:47	44702	MUNC_T2	5	6	1	0.14	0.15	0.01	0	0	0	0	0	0	0	0
10/4/2024 15:49	21504	CEAV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 15:49	58401	MORO_T1	0	0	0	0	0	0	-0.28	-0.37	0	0	0	0	0	0
10/4/2024 15:50	59302	MCAL_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/4/2024 15:50	58401	MORO_T1	0	0	0	0	0	0	-0.28	-0.37	0	0	0	0	0	0
10/4/2024 15:50	59301	MCAL_T1	9	21	12	0.62	0.39	-0.23	-1.48	-1.7	1	1	0	600	600	0
10/4/2024 15:51	58401	MORO_T1	0	0	0	0	0	0	-0.56	-0.74	0	0	0	0	0	0
10/4/2024 15:51	59301	MCAL_T1	9	21	12	0.62	0.39	-0.23	-1.48	-1.7	1	1	0	600	600	0
10/4/2024 15:51	59302	MCAL_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/4/2024 15:51	13905	SEID_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
10/4/2024 16:03	10801	OHHI_T1	0	0	0	0	0	0	-1.27	-1.34	2	2	0	1500	1500	0
10/4/2024 16:05	67106	SPRI_T2	0	0	0	0	0	0	-1.95	-1.94	2	2	0	1500	1500	0
10/4/2024 16:08	43302	WATS_T2	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
10/4/2024 16:08	67602	WARW_T2	0	0	0	0	0	0	1.39	1.39	1	1	0	300	300	0
10/4/2024 16:08	43301	WATS_T2	2	0	-2	0.3	0	-0.3	0.23	0.24	0	0	0	0	0	0
10/4/2024 16:10	44301	BEAV_T2	0	0	0	0	0	0	0.29	0.42	1	1	0	600	600	0
10/4/2024 16:10	53901	HALI_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/4/2024 16:10	53902	HALI_T2	1	1	0	5	5.1	0.1	-0.21	-0.2	0	0	0	0	0	0
10/4/2024 16:10	53903	HALI_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 16:11	44301	BEAV_T2	0	0	0	0	0	0	0.29	0.42	1	1	0	600	600	0
10/4/2024 16:11	67602	WARW_T2	0	0	0	0	0	0	1.39	1.39	1	1	0	300	300	0
10/4/2024 16:14	40802	EXCH_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
10/4/2024 16:14	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 16:16	40802	EXCH_T2	0	1	1	0	0.1	0.1	0.13	0.11	0	0	0	0	0	0
10/4/2024 16:16	40801	EXCH_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/4/2024 16:16	12004	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/4/2024 16:16	12001	HATF_T1	0	1	1	0	0.7	0.7	1.54	1.46	1	1	0	600	600	0
10/4/2024 16:17	12002	HATF_T1	0	0	0	0	0	0	0.34	0.29	1	1	0	1200	1200	0
10/4/2024 16:17	12001	HATF_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/4/2024 16:17	12004	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/4/2024 16:18	61102	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
10/4/2024 16:19	65001	NEFF_T2	4	15	11	0.1	0.15	0.05	-0.95	-0.98	1	1	0	1200	1200	0
10/4/2024 16:19	65003	NEFF_T2	4	3	-1	0.18	0.23	0.05	0	0	0	0	0	0	0	0
10/4/2024 16:20	64203	KINZ_T1	0	0	0	0	0	0	0.08	-0.01	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/4/2024 16:20	64201	KINZ_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
10/4/2024 16:20	64204	KINZ_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
10/4/2024 16:20	64202	KINZ_T1	2	3	1	0.6	0.73	0.13	0	0	0	0	0	0	0	0
10/4/2024 16:22	55001	NEWP_T1	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
10/4/2024 16:22	28102	TWLA_T2	12	13	1	0.59	0.61	0.02	0.2	0.21	0	0	0	0	0	0
10/4/2024 16:22	55002	NEWP_T1	6	5	-1	0.65	0.72	0.07	0	0	0	0	0	0	0	0
10/4/2024 16:27	67505	WEWI_T1	0	0	0	0	0	0	0.04	0.05	1	1	0	900	900	0
10/4/2024 16:32	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 16:33	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 16:39	12004	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 16:39	12001	HATF_T1	1	0	0	0.7	0	-0.7	1.55	1.41	1	1	0	600	600	0
10/4/2024 16:43	24702	FLND_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/4/2024 16:43	24701	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 16:43	54505	ENOL_T2	1	2	1	0.2	0.2	0	-1.29	-1.32	1	1	0	600	600	0
10/4/2024 17:00	40802	EXCH_T2	2	8	6	0.2	0.14	-0.06	-0.61	-0.54	0	0	0	0	0	0
10/4/2024 17:00	40801	EXCH_T2	3	3	0	0.27	0.33	0.06	-0.33	-0.33	1	1	0	1200	1200	0
10/4/2024 17:01	59003	MIFF_T1	1	1	0	0.7	0.2	-0.5	-0.41	-0.38	0	0	0	0	0	0
10/4/2024 17:01	40801	EXCH_T2	3	3	0	0.27	0.33	0.06	-0.66	-0.66	2	2	0	2400	2400	0
10/4/2024 17:01	59002	MIFF_T1	5	5	0	0.8	0.84	0.04	0	0	0	0	0	0	0	0
10/4/2024 17:01	40802	EXCH_T2	2	8	6	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
10/4/2024 17:02	40802	EXCH_T2	2	8	6	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
10/4/2024 17:02	40801	EXCH_T2	3	3	0	0.27	0.33	0.06	-0.33	-0.33	1	1	0	1200	1200	0
10/4/2024 17:03	15601	NSTR_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/4/2024 17:03	15603	NSTR_T2	0	0	0	0	0	0	-0.27	-0.31	0	0	0	0	0	0
10/4/2024 17:03	21504	CEAV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 17:03	40802	EXCH_T2	2	8	6	0.2	0.14	-0.06	-0.3	-0.27	0	0	0	0	0	0
10/4/2024 17:03	40801	EXCH_T2	3	3	0	0.27	0.33	0.06	0	0	0	0	0	0	0	0
10/4/2024 17:11	22003	BOHE_T1	244	251	7	0.47	0.61	0.14	0	0	0	0	0	0	0	0
10/4/2024 17:11	22001	BOHE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 17:11	22002	BOHE_T1	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
10/4/2024 17:16	46501	LOHA_T1	0	0	0	0	0	0	0.09	0.05	1	1	0	1200	1200	0
10/4/2024 17:16	46506	LOHA_T1	4	3	-1	3.75	4.6	0.85	0	0	0	0	0	0	0	0
10/4/2024 17:19	21504	CEAV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 17:21	16503	STRO_T2	0	0	0	0	0	0	-0.55	-0.42	1	1	0	1200	1200	0
10/4/2024 17:21	16502	STRO_T2	0	12	12	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 17:46	61101	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/4/2024 17:48	61101	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/4/2024 18:04	50502	MECH_T1	1	1	0	2.8	2.9	0.1	0	0	0	0	0	0	0	0
10/4/2024 18:04	50501	MECH_T1	4	4	0	0.1	0.33	0.23	0.85	0.74	0	0	0	0	0	0
10/4/2024 18:08	55001	NEWP_T1	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
10/4/2024 18:08	55002	NEWP_T1	6	6	0	0.83	0.9	0.07	0	0	0	0	0	0	0	0
10/4/2024 18:15	55002	NEWP_T1	6	6	0	0.88	1.02	0.14	0	0	0	0	0	0	0	0
10/4/2024 18:15	55001	NEWP_T1	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
10/4/2024 20:10	24105	EHAZ_T1	4	4	0	6.3	6.15	-0.15	-0.7	-0.63	0	0	0	0	0	0
10/4/2024 20:11	61801	EELI_T2	0	1	1	0	0.2	0.2	-0.77	-0.83	1	1	0	600	600	0
10/4/2024 20:13	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 20:14	12004	HATF_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/4/2024 20:14	45303	WBER_T2	8	8	0	0.25	0.33	0.08	-0.29	-0.34	0	0	0	0	0	0
10/4/2024 20:14	12001	HATF_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
10/4/2024 20:14	12005	HATF_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/4/2024 20:14	12002	HATF_T1	0	0	0	0	0	0	0.04	0.02	1	1	0	1200	1200	0
10/4/2024 20:17	15203	SFAR_T2	0	0	0	0	0	0	-1.18	-1.14	0	0	0	0	0	0
10/4/2024 20:18	10805	CHHI_T2	1	1	0	8.2	7.9	-0.3	-0.83	-0.97	1	1	0	600	600	0
10/4/2024 20:18	13303	ORVI_T1	0	0	0	0	0	0	1.07	1.04	0	0	0	0	0	0
10/4/2024 20:19	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 20:21	50501	MECH_T1	4	4	0	0.75	0.88	0.13	0.28	0.52	0	0	0	0	0	0
10/4/2024 20:21	50502	MECH_T1	47	132	85	0.21	0.38	0.17	0	0	0	0	0	0	0	0
10/4/2024 20:22	55002	NEWP_T1	6	6	0	0.85	1.2	0.35	-0.23	-0.25	0	0	0	0	0	0
10/4/2024 20:22	12001	HATF_T1	0	0	0	0	0	0	0.91	0.97	1	1	0	600	600	0
10/4/2024 20:22	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 20:22	16102	BING_T2	0	0	0	0	0	0	-0.24	-0.26	1	1	0	1200	1200	0
10/4/2024 20:22	12005	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/4/2024 20:22	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:22	12004	HATF_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/4/2024 20:23	16101	BING_T2	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
10/4/2024 20:24	15203	SFAR_T2	0	0	0	0	0	0	-1.14	-1.17	0	0	0	0	0	0
10/4/2024 20:25	12001	HATF_T1	0	0	0	0	0	0	0.91	0.97	1	1	0	600	600	0
10/4/2024 20:25	12005	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/4/2024 20:25	12004	HATF_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/4/2024 20:25	15203	SFAR_T2	0	0	0	0	0	0	-1.14	-1.17	0	0	0	0	0	0
10/4/2024 20:26	15203	SFAR_T2	0	0	0	0	0	0	-1.14	-1.17	0	0	0	0	0	0
10/4/2024 20:27	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 20:28	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 20:30	50107	HARR_T3	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
10/4/2024 20:30	50202	HARR_T3	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
10/4/2024 20:30	50102	HARR_T3	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:30	50201	HARR_T3	1	1	0	0.2	0.2	0	0	0	1	1	0	1200	1200	0
10/4/2024 20:30	50103	HARR_T3	2	2	0	0.3	1.25	0.95	0	0	0	0	0	0	0	0
10/4/2024 20:30	50105	HARR_T3	6	6	0	5.23	5.05	-0.18	0	0	0	0	0	0	0	0
10/4/2024 20:31	14801	TREI_T2	4	6	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/4/2024 20:31	14802	TREI_T2	11	13	2	0.19	0.2	0.01	0.46	0.47	0	0	0	0	0	0
10/4/2024 20:31	15203	SFAR_T2	0	0	0	0	0	0	-1.14	-1.17	0	0	0	0	0	0
10/4/2024 20:32	14802	TREI_T2	11	13	2	0.19	0.2	0.01	0.46	0.47	0	0	0	0	0	0
10/4/2024 20:32	63501	HEID_TBK1-2	1	1	0	0.8	1	0.2	0.54	0.48	0	0	0	0	0	0
10/4/2024 20:32	14801	TREI_T2	4	6	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/4/2024 20:34	13905	SEID_T1	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
10/4/2024 20:35	12801	MICK_T1	0	0	0	0	0	0	-0.24	-0.32	0	0	0	0	0	0
10/4/2024 20:35	12807	MICK_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:35	12803	MICK_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
10/4/2024 20:36	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 20:36	16503	STRO_T2	0	0	0	0	0	0	0.08	0.06	1	1	0	1200	1200	0
10/4/2024 20:36	57403	SPAN_T1	0	13	13	0	0.19	0.19	0	0	0	0	0	0	0	0
10/4/2024 20:36	63305	GREE_T1	15	0	-15	0.25	0	-0.25	-1.15	-1.18	1	0	-1	900	0	-900
10/4/2024 20:36	57401	SPAN_T1	2	2	0	0.7	0.85	0.15	-0.74	-0.78	1	1	0	600	600	0
10/4/2024 20:36	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
10/4/2024 20:36	65207	PRIN_T4	5	21	16	0.22	0.19	-0.03	0	0	0	0	0	0	0	0
10/4/2024 20:36	15601	NSTR_T2	3	3	0	0.47	0.2	-0.27	0	0	0	0	0	0	0	0
10/4/2024 20:36	15603	NSTR_T2	0	0	0	0	0	0	-0.26	-0.32	0	0	0	0	0	0
10/4/2024 20:36	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
10/4/2024 20:37	23403	HONE_T1	0	1	1	0	0.1	0.1	-0.68	-0.66	0	0	0	0	0	0
10/4/2024 20:38	45902	AUBU_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:38	45901	AUBU_T1	0	3	3	0	0.13	0.13	1.04	1.1	0	0	0	0	0	0
10/4/2024 20:38	12801	MICK_T1	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
10/4/2024 20:38	12807	MICK_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:38	65003	NEFF_T2	5	54	49	0.26	0.14	-0.12	0	0	0	0	0	0	0	0
10/4/2024 20:38	12802	MICK_T1	0	0	0	0	0	0	-1.17	-1.2	0	0	0	0	0	0
10/4/2024 20:38	12803	MICK_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
10/4/2024 20:38	65001	NEFF_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
10/4/2024 20:39	14801	TREI_T2	4	6	2	0.2	0.23	0.03	0.49	0.44	0	0	0	0	0	0
10/4/2024 20:39	14802	TREI_T2	11	13	2	0.19	0.2	0.01	0	0	0	0	0	0	0	0
10/4/2024 20:39	67503	WEWI_T2	1	1	0	8.3	8.3	0	0	0	0	0	0	0	0	0
10/4/2024 20:39	67502	WEWI_T2	482	158	-324	0.3	0.22	-0.08	-1.39	-0.42	1	0	-1	900	0	-900
10/4/2024 20:40	14802	TREI_T2	11	13	2	0.19	0.2	0.01	0	0	0	0	0	0	0	0
10/4/2024 20:40	60701	BREC_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
10/4/2024 20:40	64602	LEOL_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
10/4/2024 20:40	64704	LITI_T1	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
10/4/2024 20:40	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 20:40	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 20:40	14801	TREI_T2	4	6	2	0.2	0.23	0.03	0.98	0.88	0	0	0	0	0	0
10/4/2024 20:40	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:40	61102	BERK_T5	0	1	1	0	0.1	0.1	-0.01	-0.01	1	1	0	900	900	0
10/4/2024 20:40	66502	SMAN_T2	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
10/4/2024 20:41	45901	AUBU_T1	0	3	3	0	0.13	0.13	1.04	1.1	0	0	0	0	0	0
10/4/2024 20:41	43302	WATS_T2	4	4	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:41	67503	WEWI_T2	1	1	0	8.3	8.3	0	0	0	0	0	0	0	0	0
10/4/2024 20:41	43301	WATS_T2	1	1	0	0.1	0.5	0.4	0.2	0.18	0	0	0	0	0	0
10/4/2024 20:41	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:41	44802	EDAN_T2	0	1	1	0	0	0	-0.74	-0.75	0	0	0	0	0	0
10/4/2024 20:41	44801	EDAN_T2	248	295	47	0.47	0.57	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:41	67502	WEWI_T2	482	158	-324	0.3	0.22	-0.08	-1.39	-0.42	1	0	-1	900	0	-900
10/4/2024 20:41	46501	LOHA_T1	0	0	0	0	0	0	0.09	0.11	1	1	0	1200	1200	0
10/4/2024 20:41	46506	LOHA_T1	3	3	0	5.7	6.13	0.43	0	0	0	0	0	0	0	0
10/4/2024 20:41	27101	GFLD_T2	0	0	0	0	0	0	0.43	0.39	0	0	0	0	0	0
10/4/2024 20:41	66504	SMAN_T2	0	0	0	0	0	0	-0.5	-0.7	0	0	0	0	0	0
10/4/2024 20:41	61101	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/4/2024 20:41	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:41	46504	LOHA_T1	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
10/4/2024 20:41	45902	AUBU_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:41	44601	SALE_T2	0	0	0	0	0	0	0	0	1	1	0	300	300	0
10/4/2024 20:42	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
10/4/2024 20:42	67603	WARW_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
10/4/2024 20:42	65503	MOJO_T2	0	2	2	0	0.1	0.1	-0.28	-0.36	0	0	0	0	0	0
10/4/2024 20:42	57403	SPAN_T1	0	13	13	0	0.19	0.19	0	0	0	0	0	0	0	0
10/4/2024 20:42	57401	SPAN_T1	2	2	0	0.7	0.85	0.15	-0.78	-0.85	1	1	0	600	600	0
10/4/2024 20:42	44802	EDAN_T2	0	1	1	0	0	0	-0.74	-0.75	0	0	0	0	0	0
10/4/2024 20:42	42201	SHEN_T2	1	2	1	0.1	0.15	0.05	0.36	0.34	0	0	0	0	0	0
10/4/2024 20:42	45303	WBER_T2	6	8	2	0.3	0.49	0.19	0	0	0	0	0	0	0	0
10/4/2024 20:42	67605	WARW_T1	14	17	3	0.36	0.49	0.13	0	0	0	0	0	0	0	0
10/4/2024 20:42	44801	EDAN_T2	248	295	47	0.47	0.57	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:42	48302	ORWI_T2	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
10/4/2024 20:42	45302	WBER_T2	0	0	0	0	0	0	0.9	0.91	0	0	0	0	0	0
10/4/2024 20:42	45501	DERR_T2	1	1	0	0.6	0.5	-0.1	-0.31	-0.31	2	2	0	1800	1800	0
10/4/2024 20:42	64305	LINC_T1	0	0	0	0	0	0	-0.39	-0.43	0	0	0	0	0	0
10/4/2024 20:42	44601	SALE_T2	0	0	0	0	0	0	0	0	1	1	0	300	300	0
10/4/2024 20:42	65502	MOJO_T2	0	28	28	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:42	64701	LITI_T1	0	0	0	0	0	0	0.18	0.32	0	0	0	0	0	0
10/4/2024 20:42	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
10/4/2024 20:43	48901	FOSP_T2	0	0	0	0	0	0	-0.38	-0.42	1	1	0	600	600	0
10/4/2024 20:43	66504	SMAN_T2	0	0	0	0	0	0	-0.25	-0.35	0	0	0	0	0	0
10/4/2024 20:43	66502	SMAN_T2	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
10/4/2024 20:43	63305	GREE_T1	15	0	-15	0.25	0	-0.25	-1.15	-1.18	0	0	0	0	0	0
10/4/2024 20:43	64901	MILL_T1	29	49	20	0.13	0.26	0.13	0	0	0	0	0	0	0	0
10/4/2024 20:43	60701	BREC_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/4/2024 20:43	21504	CEAV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 20:43	57403	SPAN_T1	0	13	13	0	0.19	0.19	0	0	0	0	0	0	0	0
10/4/2024 20:43	57401	SPAN_T1	2	2	0	0.7	0.85	0.15	-0.78	-0.85	1	1	0	600	600	0
10/4/2024 20:43	15203	SFAR_T2	0	0	0	0	0	0	-1.17	-1.16	0	0	0	0	0	0
10/4/2024 20:43	64904	MILL_T1	9	47	38	0.12	0.14	0.02	-0.34	-0.36	0	0	0	0	0	0
10/4/2024 20:43	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:44	44801	EDAN_T2	248	295	47	0.47	0.57	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:44	45902	AUBU_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:44	64704	LITI_T1	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
10/4/2024 20:44	60701	BREC_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
10/4/2024 20:44	67402	WAKE_T2	0	0	0	0	0	0	-0.34	-0.35	1	1	0	600	600	0
10/4/2024 20:44	23202	HIRU_T2	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
10/4/2024 20:44	65503	MOJO_T2	0	2	2	0	0.1	0.1	-0.28	-0.36	0	0	0	0	0	0
10/4/2024 20:44	22003	BOHE_T1	234	242	8	0.44	0.45	0.01	0	0	0	0	0	0	0	0
10/4/2024 20:44	24702	FLND_T2	0	0	0	0	0	0	0	0	1	0	-1	1200	0	-1200
10/4/2024 20:44	45501	DERR_T2	1	1	0	0.6	0.5	-0.1	-0.31	-0.31	2	2	0	1800	1800	0
10/4/2024 20:44	22001	BOHE_T1	0	1	1	0	0.1	0.1	0.24	0.25	0	0	0	0	0	0
10/4/2024 20:44	65502	MOJO_T2	0	28	28	0	0.1	0.1	-0.79	-0.83	0	0	0	0	0	0
10/4/2024 20:44	45901	AUBU_T1	0	3	3	0	0.13	0.13	1.04	1.1	0	0	0	0	0	0
10/4/2024 20:44	44802	EDAN_T2	0	1	1	0	0	0	-0.74	-0.75	0	0	0	0	0	0
10/4/2024 20:44	22602	KIMB_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
10/4/2024 20:45	66302	MCGO_T2	0	0	0	0	0	0	-1.49	-1.48	1	1	0	600	600	0
10/4/2024 20:45	21601	EYNO_T1	1	1	0	0.1	0.3	0.2	0.23	0.27	0	0	0	0	0	0
10/4/2024 20:45	40801	EXCH_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/4/2024 20:45	44801	EDAN_T2	271	316	45	0.52	0.58	0.06	0	0	0	0	0	0	0	0
10/4/2024 20:45	45901	AUBU_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
10/4/2024 20:45	67603	WARW_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
10/4/2024 20:45	44802	EDAN_T2	0	1	1	0	0	0	-0.74	-0.75	0	0	0	0	0	0
10/4/2024 20:45	59302	MCAL_T1	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
10/4/2024 20:45	40702	FFLD_T1	104	103	-1	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
10/4/2024 20:45	67605	WARW_T1	17	16	-1	0.48	0.65	0.17	0	0	0	0	0	0	0	0
10/4/2024 20:45	45902	AUBU_T1	0	14	14	0	0.16	0.16	-0.94	-1	0	0	0	0	0	0
10/4/2024 20:45	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
10/4/2024 20:45	40701	FFLD_T1	26	31	5	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
10/4/2024 20:45	15203	SFAR_T2	0	0	0	0	0	0	-1.17	-1.16	0	0	0	0	0	0
10/4/2024 20:45	22003	BOHE_T1	233	246	13	0.42	0.48	0.06	-0.2	-0.2	0	0	0	0	0	0
10/4/2024 20:45	22001	BOHE_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:45	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
10/4/2024 20:45	66303	MCGO_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/4/2024 20:45	40703	FFLD_T1	4	4	0	0.38	0.4	0.02	0	0	0	0	0	0	0	0
10/4/2024 20:45	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/4/2024 20:45	40802	EXCH_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
10/4/2024 20:45	59301	MCAL_T1	3	48	45	1.03	0.25	-0.78	-1.13	-1.16	0	0	0	0	0	0
10/4/2024 20:46	24105	EHAZ_T1	4	4	0	6	6.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:46	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
10/4/2024 20:46	10801	CHHI_T1	0	0	0	0	0	0	-1.31	-1.33	2	2	0	1500	1500	0
10/4/2024 20:46	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:46	46004	BERW_T2	1	1	0	0.2	0.3	0.1	-0.57	-0.52	0	0	0	0	0	0
10/4/2024 20:46	60701	BREC_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
10/4/2024 20:46	63803	HEMP_T1	0	0	0	0	0	0	0.73	0.69	0	0	0	0	0	0
10/4/2024 20:46	22003	BOHE_T1	233	246	13	0.42	0.48	0.06	0	0	0	0	0	0	0	0
10/4/2024 20:46	45502	DERR_T2	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
10/4/2024 20:46	61002	DONV_T2	0	0	0	0	0	0	-1.02	-1.01	2	2	0	1200	1200	0
10/4/2024 20:46	22002	BOHE_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
10/4/2024 20:46	67505	WEWI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/4/2024 20:46	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
10/4/2024 20:46	40801	EXCH_T2	1	1	0	0.1	0.1	0	0.78	0.81	0	0	0	0	0	0
10/4/2024 20:46	67605	WARW_T1	17	16	-1	0.48	0.65	0.17	0	0	0	0	0	0	0	0
10/4/2024 20:46	45501	DERR_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/4/2024 20:46	67603	WARW_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
10/4/2024 20:46	22001	BOHE_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:46	42201	SHEN_T2	1	3	2	0	0.13	0.13	0.72	0.68	0	0	0	0	0	0
10/4/2024 20:46	66502	SMAN_T2	0	0	0	0	0	0	-0.01	0.04	0	0	0	0	0	0
10/4/2024 20:46	63804	HEMP_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
10/4/2024 20:46	24104	EHAZ_T1	0	0	0	0	0	0	-0.84	-0.87	1	1	0	1200	1200	0
10/4/2024 20:47	20603	GRWO_T2	2	11	9	0.1	0.15	0.05	0.31	0.3	0	0	0	0	0	0
10/4/2024 20:47	43301	WATS_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/4/2024 20:47	44505	HAMI_T2	0	0	0	0	0	0	0.9	0.88	0	0	0	0	0	0
10/4/2024 20:47	44502	HAMI_T2	1	1	0	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
10/4/2024 20:47	22602	KIMB_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
10/4/2024 20:47	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:47	60801	BUCK_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
10/4/2024 20:47	25402	LAHA_T2	0	0	0	0	0	0	-0.88	-0.85	0	0	0	0	0	0
10/4/2024 20:47	61102	BERE_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/4/2024 20:47	63804	HEMP_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
10/4/2024 20:47	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:47	64902	MILL_T2	0	0	0	0	0	0	-1.77	-1.68	3	3	0	2700	2700	0
10/4/2024 20:47	40801	EXCH_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/4/2024 20:47	40802	EXCH_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
10/4/2024 20:47	21206	ECAR_T2	1	1	0	6.5	7	0.5	0.19	0.18	0	0	0	0	0	0
10/4/2024 20:47	50202	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/4/2024 20:47	50103	HARR_T3	2	2	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
10/4/2024 20:47	50102	HARR_T3	2	4	2	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
10/4/2024 20:47	66502	SMAN_T2	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
10/4/2024 20:47	50105	HARR_T3	6	6	0	5.08	5.02	-0.06	0	0	0	0	0	0	0	0
10/4/2024 20:47	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/4/2024 20:47	50201	HARR_T3	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/4/2024 20:47	43304	WATS_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
10/4/2024 20:47	61101	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/4/2024 20:47	50107	HARR_T3	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
10/4/2024 20:47	60701	BREC_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
10/4/2024 20:47	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
10/4/2024 20:47	44201	POIN_T1	0	19	19	0	0.12	0.12	-1.63	-1.77	2	2	0	2100	2100	0
10/4/2024 20:47	20601	GRWO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:47	43302	WATS_T2	4	4	0	0.95	0.93	-0.02	0	0	0	0	0	0	0	0
10/4/2024 20:47	63802	HEMP_T1	0	0	0	0	0	0	0.26	0.3	0	0	0	0	0	0
10/4/2024 20:48	45901	AUBU_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
10/4/2024 20:48	40802	EXCH_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
10/4/2024 20:48	67605	WARW_T1	17	16	-1	0.48	0.65	0.17	0	0	0	0	0	0	0	0
10/4/2024 20:48	46004	BERW_T2	1	1	0	0.2	0.3	0.1	-0.57	-0.52	0	0	0	0	0	0
10/4/2024 20:48	45802	HEGI_T2	43	48	5	0.77	1.72	0.95	0.35	0.27	0	0	0	0	0	0
10/4/2024 20:48	45902	AUBU_T1	0	14	14	0	0.16	0.16	-0.94	-1	0	0	0	0	0	0
10/4/2024 20:48	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 20:48	40801	EXCH_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/4/2024 20:48	60701	BREC_T1	0	0	0	0	0	0	0.22	0.18	0	0	0	0	0	0
10/4/2024 20:48	67604	WARW_T1	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
10/4/2024 20:48	46801	HEPB_T2	2	2	0	0.45	0.4	-0.05	0.61	0.61	0	0	0	0	0	0
10/4/2024 20:49	55002	NEWP_T1	6	6	0	1.2	1.35	0.15	0	0	0	0	0	0	0	0
10/4/2024 20:49	57401	SPAN_T1	2	3	1	0.8	0.95	0.15	-0.78	-0.85	1	1	0	600	600	0
10/4/2024 20:49	45802	HEGI_T2	43	48	5	0.77	1.72	0.95	0.35	0.27	0	0	0	0	0	0
10/4/2024 20:49	44301	BEAV_T2	0	0	0	0	0	0	0.13	0.08	1	1	0	600	600	0
10/4/2024 20:49	66502	SMAN_T2	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
10/4/2024 20:49	65001	NEFF_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
10/4/2024 20:49	67603	WARW_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
10/4/2024 20:49	59302	MCAL_T1	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
10/4/2024 20:49	45901	AUBU_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
10/4/2024 20:49	67602	WARW_T2	0	0	0	0	0	0	1.21	1.2	1	1	0	300	300	0
10/4/2024 20:49	67605	WARW_T1	17	16	-1	0.48	0.65	0.17	0	0	0	0	0	0	0	0
10/4/2024 20:49	60701	BREC_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
10/4/2024 20:49	59301	MCAL_T1	3	48	45	1.03	0.25	-0.78	-1.13	-1.16	0	0	0	0	0	0
10/4/2024 20:49	65003	NEFF_T2	22	53	31	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
10/4/2024 20:49	55001	NEWP_T1	0	44	44	0	0.25	0.25	-0.2	-0.23	0	0	0	0	0	0
10/4/2024 20:49	67201	TEHI_T1	0	0	0	0	0	0	-0.04	-0.07	1	1	0	900	900	0
10/4/2024 20:49	43302	WATS_T2	4	4	0	0.95	0.93	-0.02	0	0	0	0	0	0	0	0
10/4/2024 20:49	57403	SPAN_T1	6	22	16	0.13	0.2	0.07	0	0	0	0	0	0	0	0
10/4/2024 20:49	13704	SCHN_T2	0	2	2	0	0.1	0.1	-0.36	-0.37	0	0	0	0	0	0
10/4/2024 20:49	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 20:49	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:49	40801	EXCH_T2	1	1	0	0.1	0.1	0	1.56	1.63	0	0	0	0	0	0
10/4/2024 20:49	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 20:49	45902	AUBU_T1	0	14	14	0	0.16	0.16	-0.47	-0.5	0	0	0	0	0	0
10/4/2024 20:49	43301	WATS_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/4/2024 20:50	15601	NSTR_T2	3	2	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/4/2024 20:50	21501	CEAV_T2	0	0	0	0	0	0	0.13	1.26	1	0	-1	1200	0	-1200
10/4/2024 20:50	50501	MECH_T1	4	4	0	0.88	1	0.12	0	0	0	0	0	0	0	0
10/4/2024 20:50	50502	MECH_T1	132	134	2	0.38	0.56	0.18	1472.07	1472.01	1	1	0	900	900	0
10/4/2024 20:50	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:50	44801	EDAN_T2	271	316	45	0.52	0.58	0.06	0	0	0	0	0	0	0	0
10/4/2024 20:50	66503	SMAN_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
10/4/2024 20:50	43802	SWIL_T1	0	0	0	0	0	0	-0.16	-0.14	1	1	0	600	600	0
10/4/2024 20:50	15602	NSTR_T2	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
10/4/2024 20:50	59101	WALK_T2	0	0	0	0	0	0	-0.4	-0.33	0	0	0	0	0	0
10/4/2024 20:50	67106	SPRI_T2	0	0	0	0	0	0	-1.84	-1.94	2	2	0	1500	1500	0
10/4/2024 20:50	59102	WALK_T2	1	31	30	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
10/4/2024 20:50	43801	SWIL_T1	2	2	0	3.4	3.35	-0.05	0	0	0	0	0	0	0	0
10/4/2024 20:50	44802	EDAN_T2	0	1	1	0	0	0	-0.74	-0.75	0	0	0	0	0	0
10/4/2024 20:51	65502	MOJO_T2	0	28	28	0	0.1	0.1	-0.83	-0.76	0	0	0	0	0	0
10/4/2024 20:51	63801	HEMP_T1	0	0	0	0	0	0	-0.14	-0.27	0	0	0	0	0	0
10/4/2024 20:51	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 20:51	40801	EXCH_T2	1	1	0	0.1	0.1	0	0.78	0.81	0	0	0	0	0	0
10/4/2024 20:51	14802	TREI_T2	13	7	-6	0.2	0.14	-0.06	0.47	0.48	0	0	0	0	0	0
10/4/2024 20:51	14801	TREI_T2	6	2	-4	0.23	0.3	0.07	0	0	0	0	0	0	0	0
10/4/2024 20:51	44801	EDAN_T2	271	316	45	0.52	0.58	0.06	-1.67	-1.69	0	0	0	0	0	0
10/4/2024 20:51	59302	MCAL_T1	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
10/4/2024 20:51	61502	EPET_T1	0	47	47	0	0.18	0.18	-1.03	-1.05	0	0	0	0	0	0
10/4/2024 20:51	40802	EXCH_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
10/4/2024 20:51	59301	MCAL_T1	3	48	45	1.03	0.25	-0.78	-1.13	-1.16	0	0	0	0	0	0
10/4/2024 20:51	66303	MCGO_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/4/2024 20:51	15203	SFAR_T2	0	0	0	0	0	0	-1.17	-1.16	0	0	0	0	0	0
10/4/2024 20:51	63804	HEMP_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
10/4/2024 20:51	66302	MCGO_T2	0	0	0	0	0	0	-1.48	-0.95	1	1	0	600	600	0
10/4/2024 20:51	65503	MOJO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/4/2024 20:52	50202	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/4/2024 20:52	44502	HAMI_T2	1	1	0	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
10/4/2024 20:52	50201	HARR_T3	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/4/2024 20:52	50107	HARR_T3	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
10/4/2024 20:52	40601	PIGR_T1	135	175	40	0.22	0.26	0.04	0	0	0	0	0	0	0	0
10/4/2024 20:52	44703	MUNC_T2	2	2	0	1.5	1.2	-0.3	0	0	0	0	0	0	0	0
10/4/2024 20:52	44702	MUNC_T2	158	8	-150	0.37	0.18	-0.19	0	0	0	0	0	0	0	0
10/4/2024 20:52	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 20:52	59002	MIFF_T1	5	5	0	0.76	0.98	0.22	0	0	0	0	0	0	0	0
10/4/2024 20:52	50103	HARR_T3	2	2	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
10/4/2024 20:52	50105	HARR_T3	6	6	0	5.08	5.02	-0.06	0	0	0	0	0	0	0	0
10/4/2024 20:52	44701	MUNC_T2	332	154	-178	0.33	0.21	-0.12	0	0	0	0	0	0	0	0
10/4/2024 20:52	59003	MIFF_T1	0	2	2	0	0.3	0.3	0.66	0.6	0	0	0	0	0	0
10/4/2024 20:52	40801	EXCH_T2	1	1	0	0.1	0.1	0	0.81	0.79	0	0	0	0	0	0
10/4/2024 20:52	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
10/4/2024 20:52	50102	HARR_T3	2	4	2	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
10/4/2024 20:52	40602	PIGR_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/4/2024 20:53	43304	WATS_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
10/4/2024 20:53	64202	KINZ_T1	11	19	8	0.39	0.26	-0.13	0	0	0	0	0	0	0	0
10/4/2024 20:53	43302	WATS_T2	4	4	0	0.95	0.93	-0.02	0	0	0	0	0	0	0	0
10/4/2024 20:53	58401	MORO_T1	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
10/4/2024 20:53	57401	SPAN_T1	2	3	1	0.8	0.95	0.15	-0.85	-0.88	1	1	0	600	600	0
10/4/2024 20:53	64204	KINZ_T1	26	33	7	0.24	0.31	0.07	0	0	0	0	0	0	0	0
10/4/2024 20:53	57403	SPAN_T1	6	22	16	0.13	0.2	0.07	0	0	0	0	0	0	0	0
10/4/2024 20:53	60801	BUCK_T1	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
10/4/2024 20:53	65501	MOJO_T1	0	0	0	0	0	0	-0.51	-0.36	1	1	0	900	900	0
10/4/2024 20:53	43301	WATS_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/4/2024 20:53	64203	KINZ_T1	0	1	1	0	0.1	0.1	0.38	0.34	0	0	0	0	0	0
10/4/2024 20:53	64201	KINZ_T1	6	27	21	0.55	0.25	-0.3	0	0	0	0	0	0	0	0
10/4/2024 20:54	46506	LOHA_T1	3	3	0	6.13	6.27	0.14	0	0	0	0	0	0	0	0
10/4/2024 20:54	57401	SPAN_T1	2	3	1	0.8	0.95	0.15	-0.85	-0.88	1	1	0	600	600	0
10/4/2024 20:54	43301	WATS_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/4/2024 20:54	43304	WATS_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
10/4/2024 20:54	46504	LOHA_T1	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
10/4/2024 20:54	57403	SPAN_T1	6	22	16	0.13	0.2	0.07	0	0	0	0	0	0	0	0
10/4/2024 20:54	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
10/4/2024 20:54	58401	MORO_T1	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
10/4/2024 20:54	43302	WATS_T2	4	4	0	0.95	0.93	-0.02	0	0	0	0	0	0	0	0
10/4/2024 20:55	54505	ENOL_T2	1	1	0	0.9	1	0.1	-1.34	-1.32	1	1	0	600	600	0
10/4/2024 20:55	54601	SUMM_T2	10	10	0	0.43	0.53	0.1	-1.84	-1.87	2	2	0	2100	2100	0
10/4/2024 20:55	54506	ENOL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/4/2024 20:55	54603	SUMM_T2	1	0	-1	3.4	0	-3.4	0	0	0	0	0	0	0	0
10/4/2024 20:55	58401	MORO_T1	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
10/4/2024 20:55	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/4/2024 20:55	42201	SHEN_T2	1	3	2	0	0.13	0.13	0.34	0.35	0	0	0	0	0	0
10/4/2024 20:56	55001	NEWP_T1	0	44	44	0	0.25	0.25	-0.23	-0.22	0	0	0	0	0	0
10/4/2024 20:56	40802	EXCH_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
10/4/2024 20:56	58401	MORO_T1	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
10/4/2024 20:56	40801	EXCH_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/4/2024 20:56	44802	EDAN_T2	0	1	1	0	0	0	-0.75	-0.77	0	0	0	0	0	0
10/4/2024 20:56	44801	EDAN_T2	271	316	45	0.52	0.58	0.06	0	0	0	0	0	0	0	0
10/4/2024 20:56	55002	NEWP_T1	6	6	0	1.2	1.35	0.15	0	0	0	0	0	0	0	0
10/4/2024 20:57	57401	SPAN_T1	2	3	1	0.8	0.95	0.15	0	0	0	0	0	0	0	0
10/4/2024 20:57	57403	SPAN_T1	6	22	16	0.13	0.2	0.07	0.06	0.03	0	0	0	0	0	0
10/4/2024 20:58	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2024 20:59	44301	BEAV_T2	0	0	0	0	0	0	0.08	0.09	1	1	0	600	600	0
10/4/2024 21:00	55002	NEWP_T1	6	6	0	1.33	1.4	0.07	0	0	0	0	0	0	0	0
10/4/2024 21:00	55001	NEWP_T1	10	46	36	0.13	0.26	0.13	-0.23	-0.22	0	0	0	0	0	0
10/4/2024 21:08	10801	CHHI_T1	0	0	0	0	0	0	-1.31	-1.33	2	2	0	1500	1500	0
10/4/2024 21:08	15204	SFAR_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
10/4/2024 21:12	50102	HARR_T3	2	4	2	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
10/4/2024 21:12	50202	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/4/2024 21:12	50107	HARR_T3	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
10/4/2024 21:12	50105	HARR_T3	6	6	0	5.05	5.05	0	0	0	0	0	0	0	0	0
10/4/2024 21:12	50201	HARR_T3	1	1	0	0.2	0.2	0	0	0	1	1	0	1200	1200	0
10/4/2024 21:12	50103	HARR_T3	2	2	0	1.25	1.25	0	0	0	0	0	0	0	0	0
10/4/2024 21:14	65205	PRIN_T1	32	29	-3	0.18	0.23	0.05	0	0	0	0	0	0	0	0
10/4/2024 21:15	66505	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/4/2024 21:15	66502	SMAN_T2	0	0	0	0	0	0	0.02	-0.1	0	0	0	0	0	0
10/4/2024 21:20	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/4/2024 21:35	55002	NEWP_T1	6	6	0	1.4	1.52	0.12	0	0	0	0	0	0	0	0
10/4/2024 21:35	55001	NEWP_T1	44	0	-44	0.24	0	-0.24	-0.25	-0.18	0	0	0	0	0	0
10/4/2024 21:56	14502	SCHO_T1	0	0	0	0	0	0	0.42	0.36	0	0	0	0	0	0
10/4/2024 22:06	15203	SFAR_T2	0	0	0	0	0	0	-1.2	-1.25	0	0	0	0	0	0
10/4/2024 22:09	28102	TWLA_T2	12	11	-1	0.58	0.59	0.01	0.17	0.16	0	0	0	0	0	0
10/4/2024 22:32	60701	BREC_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
10/4/2024 22:36	63802	HEMP_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
10/4/2024 22:36	63804	HEMP_T1	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
10/5/2024 6:19	66302	MCGO_T2	0	0	0	0	0	0	-1.07	-1.08	0	0	0	0	0	0
10/5/2024 6:19	59101	WALK_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
10/5/2024 6:19	67605	WARW_T1	13	14	1	0.52	0.57	0.05	0	0	0	0	0	0	0	0
10/5/2024 6:19	61101	BERK_T5	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
10/5/2024 6:19	59302	MCAL_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
10/5/2024 6:19	66303	MCGO_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
10/5/2024 6:19	59301	MCAL_T1	0	2	2	0	0.6	0.6	-3.66	-3.63	0	0	0	0	0	0
10/5/2024 6:19	64305	LINC_T1	0	0	0	0	0	0	-0.57	-0.53	0	0	0	0	0	0
10/5/2024 6:19	54505	ENOL_T2	1	1	0	0.2	0.2	0	-1.44	-1.41	1	1	0	600	600	0
10/5/2024 6:19	64704	LITI_T1	0	0	0	0	0	0	0.17	0.05	1	1	0	600	600	0
10/5/2024 6:19	63501	HEID_TBK1-2	1	1	0	1.3	1.4	0.1	0.6	0.52	0	0	0	0	0	0
10/5/2024 6:19	61102	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/5/2024 6:19	67602	WARW_T2	0	0	0	0	0	0	1.98	2.1	2	2	0	600	600	0
10/5/2024 6:19	67402	WAKE_T2	0	0	0	0	0	0	-0.5	-0.49	1	1	0	600	600	0
10/5/2024 6:19	67603	WARW_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
10/5/2024 6:20	60801	BUCK_T1	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
10/5/2024 6:20	50107	HARR_T3	1	1	0	7.6	7.9	0.3	0	0	0	0	0	0	0	0
10/5/2024 6:20	48901	FOSP_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
10/5/2024 6:20	57401	SPAN_T1	0	0	0	0	0	0	-3.49	-3.39	3	3	0	1800	1800	0
10/5/2024 6:20	50103	HARR_T3	2	2	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/5/2024 6:20	50201	HARR_T3	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
10/5/2024 6:20	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/5/2024 6:20	50105	HARR_T3	7	7	0	6.04	5.27	-0.77	0	0	0	0	0	0	0	0
10/5/2024 6:20	60701	BREC_T1	0	0	0	0	0	0	-0.3	2.37	0	0	0	0	0	0
10/5/2024 6:20	44301	BEAV_T2	0	0	0	0	0	0	-0.47	-0.48	1	1	0	600	600	0
10/5/2024 6:21	59003	MIFF_T1	1	1	0	0.3	0.2	-0.1	0.21	0.19	0	0	0	0	0	0
10/5/2024 6:21	59002	MIFF_T1	6	6	0	0.38	0.27	-0.11	0	0	0	0	0	0	0	0
10/5/2024 6:31	67505	WEWI_T1	0	0	0	0	0	0	-0.26	-0.27	1	1	0	900	900	0
10/5/2024 8:15	14702	TREX_T2	0	0	0	0	0	0	0.59	0.66	0	0	0	0	0	0
10/5/2024 10:00	50107	HARR_T3	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
10/5/2024 10:00	50105	HARR_T3	6	6	0	6.28	6.38	0.1	0	0	0	0	0	0	0	0
10/5/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-0.97	-0.99	0	0	0	0	0	0
10/5/2024 10:00	67503	WEWI_T2	1	1	0	6.2	6.1	-0.1	-0.21	-0.24	0	0	0	0	0	0
10/5/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
10/5/2024 10:00	59002	MIFF_T1	3	2	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
10/5/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
10/5/2024 10:00	50201	HARR_T3	1	1	0	0.3	0.1	-0.2	0	0	1	1	0	1200	1200	0
10/5/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
10/5/2024 10:07	66502	SMAN_T2	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
10/5/2024 10:07	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/5/2024 10:13	65503	MOJO_T2	0	0	0	0	0	0	-1.07	-1.08	1	1	0	900	900	0
10/5/2024 10:57	66502	MOJO_T2	0	0	0	0	0	0	-0.56	-0.55	0	0	0	0	0	0
10/5/2024 10:57	65503	MOJO_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
10/5/2024 10:58	65502	MOJO_T2	0	0	0	0	0	0	-0.56	-0.55	0	0	0	0	0	0
10/5/2024 10:58	65503	MOJO_T2	0	3	3	0	0.37	0.37	-1.05	-1.01	1	1	0	900	900	0
10/5/2024 11:02	65503	MOJO_T2	2	2	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
10/5/2024 11:02	66502	MOJO_T2	0	0	0	0	0	0	-0.56	-0.55	0	0	0	0	0	0
10/5/2024 14:15	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/5/2024 14:15	21206	ECAR_T2	1	1	0	6.5	6.6	0.1	1.33	1.36	0	0	0	0	0	0
10/5/2024 14:16	21206	ECAR_T2	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
10/5/2024 14:16	21204	ECAR_T2	1	1	0	0	0	0	-0.72	-0.76	0	0	0	0	0	0
10/5/2024 20:45	65502	MOJO_T2	149	284	135	0.13	0.21	0.08	-2.03	-2.01	1	1	0	900	900	0
10/5/2024 20:45	65503	MOJO_T2	0	16	16	0	0.1	0.1	0	0	0	0	0	0	0	0
10/5/2024 20:46	21206	ECAR_T2	1	1	0	7.2	7.4	0.2	1.23	1.14	0	0	0	0	0	0
10/5/2024 20:46	21204	ECAR_T2	1	1	0	0	0.3	0.3	0	0	0	0	0	0	0	0
10/5/2024 20:48	65503	MOJO_T2	0	16	16	0	0.1	0.1	-0.31	-0.38	0	0	0	0	0	0
10/5/2024 20:48	65502	MOJO_T2	149	284	135	0.13	0.21	0.08	0	0	0	0	0	0	0	0
10/5/2024 20:51	65502	MOJO_T2	149	284	135	0.13	0.21	0.08	0	0	0	0	0	0	0	0
10/5/2024 20:51	65503	MOJO_T2	0	16	16	0	0.1	0.1	0	0	0	0	0	0	0	0
10/5/2024 20:52	65503	MOJO_T2	0	16	16	0	0.1	0.1	0	0	0	0	0	0	0	0
10/5/2024 20:52	65502	MOJO_T2	149	284	135	0.13	0.21	0.08	-2.01	-2.05	1	1	0	900	900	0
10/5/2024 20:55	65503	MOJO_T2	0	16	16	0	0.1	0.1	0	0	0	0	0	0	0	0
10/5/2024 20:55	65502	MOJO_T2	149	284	135	0.13	0.21	0.08	-2.01	-2.05	1	1	0	900	900	0
10/5/2024 22:33	65503	MOJO_T2	0	0	0	0	0	0	-0.49	-0.56	0	0	0	0	0	0
10/6/2024 7:06	66302	MCGO_T2	0	0	0	0	0	0	-1.12	-1.1	0	0	0	0	0	0
10/6/2024 7:06	66303	MCGO_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/6/2024 7:36	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 7:57	22002	BOHE_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
10/6/2024 7:57	22003	BOHE_T1	228	230	2	0.38	0.34	-0.04	0	0	0	0	0	0	0	0
10/6/2024 7:58	11202	ELHE_T2	0	0	0	0	0	0	0.37	0.41	1	1	0	1200	1200	0
10/6/2024 7:59	41301	FISH_T1	2	2	0	1.6	1.9	0.3	-0.21	-0.21	0	0	0	0	0	0
10/6/2024 8:00	41301	FISH_T1	2	2	0	1.6	2.1	0.5	0	0	0	0	0	0	0	0
10/6/2024 8:02	64204	KINZ_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
10/6/2024 8:02	64201	KINZ_T1	1	1	0	0.6	0.3	-0.3	-0.8	-0.81	2	2	0	1200	1200	0
10/6/2024 8:02	60502	NMAN_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
10/6/2024 8:04	64204	KINZ_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
10/6/2024 8:04	64201	KINZ_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
10/6/2024 8:07	42701	AUGU_T1	1	1	0	1	1.1	0.1	0	0	2	2	0	1800	1800	0
10/6/2024 8:12	42701	AUGU_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
10/6/2024 8:12	11205	ELHE_T1	23	3	-20	0.47	2.77	2.3	0	0	0	0	0	0	0	0
10/6/2024 8:12	11203	ELHE_T1	0	1	1	0	0	0	0.73	0.71	0	0	0	0	0	0
10/6/2024 8:19	64201	KINZ_T1	1	1	0	0.2	0.4	0.2	-0.81	-0.74	2	2	0	1200	1200	0
10/6/2024 8:19	64204	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
10/6/2024 8:25	45902	AUBU_T1	22	13	-9	0.17	0.25	0.08	0	0	0	0	0	0	0	0
10/6/2024 8:25	45901	AUBU_T1	2	0	-2	0.1	0	-0.1	0.98	0.94	0	0	0	0	0	0
10/6/2024 8:31	63501	HEID_TBK1-2	1	1	0	0.8	0.6	-0.2	0.5	0.42	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/6/2024 8:32	63501	HEID_TBK1-2	1	1	0	0.8	0.6	-0.2	0.5	0.42	0	0	0	0	0	0
10/6/2024 8:38	42701	AUGU_T1	1	1	0	1.1	1	-0.1	0	0	2	2	0	1800	1800	0
10/6/2024 8:43	54501	ENOL_T2	0	0	0	0	0	0	-0.56	-0.57	1	1	0	600	600	0
10/6/2024 8:43	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/6/2024 8:45	64204	KINZ_T1	1	8	7	0.8	0.38	-0.42	0	0	0	0	0	0	0	0
10/6/2024 8:45	64201	KINZ_T1	1	2	1	0.4	0.85	0.45	0	0	0	0	0	0	0	0
10/6/2024 8:45	64202	KINZ_T1	0	3	3	0	0.73	0.73	0	0	0	0	0	0	0	0
10/6/2024 8:45	64203	KINZ_T1	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0
10/6/2024 8:47	11801	FRAN_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
10/6/2024 8:59	44801	EDAN_T2	0	44	44	0	0.23	0.23	-1.76	-1.78	0	0	0	0	0	0
10/6/2024 9:01	64201	KINZ_T1	1	2	1	0.5	0.85	0.35	0	0	0	0	0	0	0	0
10/6/2024 9:01	64204	KINZ_T1	1	8	7	0.7	0.41	-0.29	0	0	0	0	0	0	0	0
10/6/2024 9:01	64202	KINZ_T1	0	4	4	0	0.63	0.63	0	0	0	0	0	0	0	0
10/6/2024 9:01	64203	KINZ_T1	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
10/6/2024 9:15	44502	HAMI_T2	1	1	0	2.8	2.8	0	0	0	0	0	0	0	0	0
10/6/2024 9:15	44503	HAMI_T2	0	0	0	0	0	0	-1.33	-1.33	1	1	0	1200	1200	0
10/6/2024 9:18	63501	HEID_TBK1-2	1	1	0	0.2	0.8	0.6	0.45	0.44	0	0	0	0	0	0
10/6/2024 9:18	13503	MCMI_T2	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
10/6/2024 9:19	63501	HEID_TBK1-2	1	1	0	0.2	0.8	0.6	0.45	0.44	0	0	0	0	0	0
10/6/2024 9:20	13503	MCMI_T2	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
10/6/2024 9:23	67503	WEWI_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
10/6/2024 9:23	67502	WEWI_T2	0	1	1	0	0.1	0.1	-1.59	-1.62	1	1	0	900	900	0
10/6/2024 9:24	42701	AUGU_T1	1	1	0	1	0.8	-0.2	0	0	2	2	0	1800	1800	0
10/6/2024 9:26	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.23	0	0	0	0	0	0
10/6/2024 9:27	66504	SMAN_T2	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
10/6/2024 9:28	66504	SMAN_T2	0	0	0	0	0	0	-1.5	-1.46	0	0	0	0	0	0
10/6/2024 9:28	44301	BEAV_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
10/6/2024 9:30	63501	HEID_TBK1-2	1	1	0	0.3	0.8	0.5	0.44	0.47	0	0	0	0	0	0
10/6/2024 9:31	63801	HEMP_T1	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
10/6/2024 9:31	63804	HEMP_T1	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
10/6/2024 9:32	40602	PIGR_T1	1	2	1	2.1	0.9	-1.2	0	0	0	0	0	0	0	0
10/6/2024 9:32	40601	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/6/2024 9:34	58401	MORO_T1	0	0	0	0	0	0	-1.23	-1.22	1	1	0	600	600	0
10/6/2024 9:35	58401	MORO_T1	0	0	0	0	0	0	-1.23	-1.22	1	1	0	600	600	0
10/6/2024 9:35	63501	HEID_TBK1-2	1	1	0	0.3	0.8	0.5	0.44	0.47	0	0	0	0	0	0
10/6/2024 9:39	24902	WHHA_T1	1	1	0	0.4	0.5	0.1	0.67	0.66	0	0	0	0	0	0
10/6/2024 9:39	53101	WTWN_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/6/2024 9:39	53102	WTWN_T1	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
10/6/2024 9:40	53102	WTWN_T1	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
10/6/2024 9:40	53101	WTWN_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/6/2024 9:40	24902	WHHA_T1	1	1	0	0.4	0.5	0.1	0.67	0.66	0	0	0	0	0	0
10/6/2024 9:49	65001	NEFF_T2	0	0	0	0	0	0	-1.41	-1.41	1	1	0	1200	1200	0
10/6/2024 9:50	15203	SFAR_T2	1	3	2	0.2	0.45	0.25	-1.35	-1.34	0	0	0	0	0	0
10/6/2024 9:54	67605	WARW_T1	11	13	2	0.33	0.39	0.06	0	0	0	0	0	0	0	0
10/6/2024 9:54	67603	WARW_T1	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
10/6/2024 9:54	45902	AUBU_T1	2	5	3	1.05	0.64	-0.41	-0.52	-0.5	0	0	0	0	0	0
10/6/2024 9:54	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/6/2024 9:55	16101	BING_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
10/6/2024 9:55	24701	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 9:56	45902	AUBU_T1	2	5	3	1.05	0.64	-0.41	-0.52	-0.5	0	0	0	0	0	0
10/6/2024 9:56	64602	LEOL_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
10/6/2024 9:56	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/6/2024 10:00	67503	WEWI_T2	1	1	0	6.9	7.1	0.2	-0.3	-0.29	0	0	0	0	0	0
10/6/2024 10:00	40504	CRES_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/6/2024 10:00	59002	MIFF_T1	0	5	5	0	0.26	0.26	0	0	0	0	0	0	0	0
10/6/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
10/6/2024 10:00	13503	MCMI_T2	1	2	1	0.5	0.7	0.2	-1.91	-1.83	0	0	0	0	0	0
10/6/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	0.02	0.45	0	0	0	0	0	0
10/6/2024 10:00	65001	NEFF_T2	0	0	0	0	0	0	-1.41	-1.43	1	1	0	1200	1200	0
10/6/2024 10:00	28102	TWLA_T2	0	5	5	0	0.5	0.5	0.19	0.19	0	0	0	0	0	0
10/6/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-0.97	-1	0	0	0	0	0	0
10/6/2024 10:00	17401	FOHI_T1	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
10/6/2024 10:00	64602	LEOL_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
10/6/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
10/6/2024 10:01	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 10:08	42701	AUGU_T1	0	1	1	0	0.1	0.1	0	0	2	2	0	1800	1800	0
10/6/2024 10:09	60801	BUCK_T1	0	1	1	0	0.1	0.1	-0.89	-0.88	1	1	0	600	600	0
10/6/2024 10:11	24701	FLND_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
10/6/2024 10:11	24902	WHHA_T1	1	2	1	0.5	0.4	-0.1	0.66	0.68	0	0	0	0	0	0
10/6/2024 10:13	66502	SMAN_T2	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
10/6/2024 10:13	41305	FISH_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
10/6/2024 10:13	41301	FISH_T1	2	2	0	1.45	2	0.55	-0.36	-0.34	0	0	0	0	0	0
10/6/2024 10:13	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/6/2024 10:14	41305	FISH_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
10/6/2024 10:14	41301	FISH_T1	2	2	0	1.45	2	0.55	0	0	0	0	0	0	0	0
10/6/2024 10:15	41305	FISH_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/6/2024 10:15	64204	KINZ_T1	11	23	12	0.33	0.4	0.07	0	0	0	0	0	0	0	0
10/6/2024 10:15	66504	SMAN_T2	0	1	1	0	0.4	0.4	-2.22	-2.16	0	0	0	0	0	0
10/6/2024 10:15	64203	KINZ_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
10/6/2024 10:15	64202	KINZ_T1	4	4	0	0.6	0.68	0.08	0	0	0	0	0	0	0	0
10/6/2024 10:15	64201	KINZ_T1	1	2	1	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
10/6/2024 10:15	41301	FISH_T1	2	3	1	1.95	1.53	-0.42	-0.18	-0.17	0	0	0	0	0	0
10/6/2024 10:17	65503	MOJO_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
10/6/2024 10:23	42701	AUGU_T1	1	0	-1	0.1	0	-0.1	0	0	2	2	0	1800	1800	0
10/6/2024 10:24	24902	WHHA_T1	2	2	0	0.3	0.3	0	0.68	0.66	0	0	0	0	0	0
10/6/2024 10:24	42701	AUGU_T1	1	0	-1	0.1	0	-0.1	0	0	2	2	0	1800	1800	0
10/6/2024 10:25	22001	BOHE_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
10/6/2024 10:25	22003	BOHE_T1	5	210	205	0.2	0.29	0.09	0	0	0	0	0	0	0	0
10/6/2024 10:27	42701	AUGU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/6/2024 10:29	66504	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/6/2024 10:30	66504	SMAN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/6/2024 10:30	66505	SMAN_T2	0	0	0	0	0	0	0.33	0.23	1	2	1	900	1100	200
10/6/2024 10:34	64305	LINC_T1	0	1	1	0	0.3	0.3	-0.6	-0.67	0	0	0	0	0	0
10/6/2024 10:36	13302	ORVI_T2	1	2	1	0.1	0.55	0.45	1.05	1.1	0	0	0	0	0	0
10/6/2024 10:37	13303	ORVI_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
10/6/2024 10:37	42601	TUSC_T1	0	1	1	0	0.2	0.2	-0.63	-0.66	2	2	0	1800	1800	0
10/6/2024 10:41	67501	WEWI_T1	3	3	0	0.43	1.03	0.6	-2.05	-2.15	1	1	0	600	600	0
10/6/2024 10:42	67603	WARW_T1	0	1	1	0	0.3	0.3	-0.12	-0.07	0	0	0	0	0	0
10/6/2024 10:42	67605	WARW_T1	6	18	12	0.35	0.58	0.23	0	0	0	0	0	0	0	0
10/6/2024 10:50	63801	HEMP_T1	0	0	0	0	0	0	-0.31	-0.27	0	0	0	0	0	0
10/6/2024 10:50	63804	HEMP_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
10/6/2024 10:56	67603	WARW_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
10/6/2024 10:56	67605	WARW_T1	6	20	14	0.28	0.67	0.39	-1.14	-1.14	0	0	0	0	0	0
10/6/2024 10:57	62106	ELAN_T1	0	2	2	0	0.2	0.2	-0.01	0	0	0	0	0	0	0
10/6/2024 10:57	67603	WARW_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
10/6/2024 10:57	67605	WARW_T1	6	20	14	0.28	0.67	0.39	-1.14	-1.14	0	0	0	0	0	0
10/6/2024 10:57	62102	ELAN_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
10/6/2024 10:57	62105	ELAN_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/6/2024 10:59	63305	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/6/2024 10:59	62105	ELAN_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/6/2024 10:59	62106	ELAN_T1	0	2	2	0	0.2	0.2	-0.01	0	0	0	0	0	0	0
10/6/2024 10:59	62102	ELAN_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
10/6/2024 10:59	63302	GREE_T1	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
10/6/2024 11:00	61001	DONV_T1	1	2	1	0.3	0.25	-0.05	-0.02	-0.05	0	0	0	0	0	0
10/6/2024 11:01	64204	KINZ_T1	25	72	47	0.36	0.48	0.12	0	0	0	0	0	0	0	0
10/6/2024 11:01	64201	KINZ_T1	2	7	5	0.7	0.41	-0.29	-0.63	-0.5	2	2	0	1200	1200	0
10/6/2024 11:01	64202	KINZ_T1	4	6	2	0.63	0.48	-0.15	0	0	0	0	0	0	0	0
10/6/2024 11:01	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.15	0.18	0	0	0	0	0	0
10/6/2024 11:03	58401	MORO_T1	0	1	1	0	0.2	0.2	-1.21	-1.22	1	1	0	600	600	0
10/6/2024 11:04	58401	MORO_T1	0	1	1	0	0.2	0.2	-1.21	-1.22	1	1	0	600	600	0
10/6/2024 11:08	60201	ATGL_T2	1	3	2	0.2	0.4	0.2	-0.44	-0.4	0	0	0	0	0	0
10/6/2024 11:09	67502	WEWI_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/6/2024 11:09	67503	WEWI_T2	1	1	0	7.3	7.5	0.2	-0.24	-0.24	0	0	0	0	0	0
10/6/2024 11:10	20403	ASHF_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
10/6/2024 11:10	60201	ATGL_T2	1	3	2	0.2	0.4	0.2	-0.44	-0.4	0	0	0	0	0	0
10/6/2024 11:10	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 11:10	20401	ASHF_T2	0	4	4	0	0.13	0.13	-0.31	-0.39	0	0	0	0	0	0
10/6/2024 11:11	10801	CHHI_T1	4	5	1	0.45	0.26	-0.19	-1.41	-1.42	2	2	0	1500	1500	0
10/6/2024 11:13	20401	ASHF_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
10/6/2024 11:13	23401	HONE_T2	3	5	2	0.23	0.26	0.03	-0.13	-0.17	0	0	0	0	0	0
10/6/2024 11:13	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 11:13	20403	ASHF_T2	1	1	0	0.6	0.6	0	0.09	0.06	0	0	0	0	0	0
10/6/2024 11:13	23403	HONE_T1	1	1	0	0.2	0.4	0.2	-0.8	-0.64	0	0	0	0	0	0
10/6/2024 11:15	67805	WLAN_T1	0	0	0	0	0	0	-1.5	-1.51	0	0	0	0	0	0
10/6/2024 11:15	46803	HEPB_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/6/2024 11:15	67803	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 11:15	46801	HEPB_T2	2	2	0	0.4	0.3	-0.1	0.5	0.54	0	0	0	0	0	0
10/6/2024 11:17	46803	HEPB_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/6/2024 11:17	46801	HEPB_T2	2	2	0	0.4	0.3	-0.1	0.5	0.54	0	0	0	0	0	0
10/6/2024 11:18	65503	MOJO_T2	7	9	2	0.41	0.36	-0.05	0	0	0	0	0	0	0	0
10/6/2024 11:18	65502	MOJO_T2	0	0	0	0	0	0	-0.87	-0.78	0	0	0	0	0	0
10/6/2024 11:23	41902	REED_T1	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
10/6/2024 11:24	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 11:24	65503	MOJO_T2	7	9	2	0.41	0.36	-0.05	0	0	0	0	0	0	0	0
10/6/2024 11:24	44301	BEAV_T2	9	10	1	0.34	0.37	0.03	0	0	0	0	0	0	0	0
10/6/2024 11:28	21206	ECAR_T2	1	1	0	6.5	7.2	0.7	0	0	0	0	0	0	0	0
10/6/2024 11:28	21204	ECAR_T2	1	1	0	0	0	0	-0.75	-0.72	0	0	0	0	0	0
10/6/2024 11:32	28701	HAML_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/6/2024 11:32	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/6/2024 11:36	15703	TANN_T2	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
10/6/2024 11:36	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.37	0	0	0	0	0	0
10/6/2024 11:39	45902	AUBU_T1	4	4	0	1.2	1.48	0.28	0	0	0	0	0	0	0	0
10/6/2024 11:39	15703	TANN_T2	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
10/6/2024 11:39	45901	AUBU_T1	2	2	0	0.3	0.25	-0.05	0.98	0.95	0	0	0	0	0	0
10/6/2024 11:39	46004	BERW_T2	0	1	1	0	0	0	-1.26	-1.17	0	0	0	0	0	0
10/6/2024 11:39	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.37	0	0	0	0	0	0
10/6/2024 11:40	48302	ORWI_T2	2	2	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
10/6/2024 11:41	45901	AUBU_T1	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
10/6/2024 11:41	45902	AUBU_T1	4	4	0	1.2	1.48	0.28	-0.57	-0.57	0	0	0	0	0	0
10/6/2024 11:42	46004	BERW_T2	0	1	1	0	0	0	-0.63	-0.58	0	0	0	0	0	0
10/6/2024 11:43	45902	AUBU_T1	4	4	0	1.2	1.48	0.28	-0.57	-0.57	0	0	0	0	0	0
10/6/2024 11:43	45901	AUBU_T1	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
10/6/2024 11:44	45901	AUBU_T1	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/6/2024 11:44	45902	AUBU_T1	4	4	0	1.2	1.48	0.28	-0.57	-0.57	0	0	0	0	0	0
10/6/2024 11:45	25402	LAHA_T2	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
10/6/2024 11:51	24603	VARD_T2	14	19	5	0.64	0.66	0.02	0	0	0	0	0	0	0	0
10/6/2024 11:51	24602	VARD_T2	13	16	3	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
10/6/2024 11:52	15703	TANN_T2	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
10/6/2024 11:52	15702	TANN_T2	0	0	0	0	0	0	-0.37	-0.4	0	0	0	0	0	0
10/6/2024 11:53	40601	PIGR_T1	4	5	1	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
10/6/2024 11:53	40603	PIGR_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/6/2024 11:53	40602	PIGR_T1	2	2	0	1.15	1.25	0.1	-0.74	-0.73	1	1	0	600	600	0
10/6/2024 11:54	44301	BEAV_T2	8	6	-2	0.34	0.36	0.02	-0.36	-0.37	1	1	0	600	600	0
10/6/2024 11:54	15702	TANN_T2	0	0	0	0	0	0	-0.37	-0.4	0	0	0	0	0	0
10/6/2024 11:54	15703	TANN_T2	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
10/6/2024 11:57	16103	BING_T2	0	0	0	0	0	0	-0.87	-0.85	2	2	0	1500	1500	0
10/6/2024 11:57	16101	BING_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
10/6/2024 11:57	16102	BING_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
10/6/2024 11:58	22003	BOHE_T1	134	210	76	0.26	0.32	0.06	-0.2	-0.2	0	0	0	0	0	0
10/6/2024 11:58	22001	BOHE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/6/2024 12:05	13901	SEID_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/6/2024 12:05	13905	SEID_T1	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
10/6/2024 12:07	14802	TREI_T2	1	4	3	0.3	0.28	-0.02	0.42	0.43	0	0	0	0	0	0
10/6/2024 12:07	58401	MORO_T1	0	1	1	0	0.1	0.1	-1.12	-1.09	1	1	0	600	600	0
10/6/2024 12:08	14802	TREI_T2	1	4	3	0.3	0.28	-0.02	0.42	0.43	0	0	0	0	0	0
10/6/2024 12:08	58401	MORO_T1	0	1	1	0	0.1	0.1	-1.12	-1.09	1	1	0	600	600	0
10/6/2024 12:11	14802	TREI_T2	1	4	3	0.3	0.28	-0.02	0.42	0.43	0	0	0	0	0	0
10/6/2024 12:14	22901	HARW_T1	0	0	0	0	0	0	-0.67	-0.72	1	1	0	1200	1200	0
10/6/2024 12:14	22903	HARW_T1	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/6/2024 12:14	22905	HARW_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 12:15	64404	LAND_T2	1	0	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/6/2024 12:15	14802	TREI_T2	3	4	1	0.3	0.25	-0.05	0.42	0.43	0	0	0	0	0	0
10/6/2024 12:15	64402	LAND_T2	0	0	0	0	0	0	-0.48	-0.4	1	1	0	600	600	0
10/6/2024 12:19	65601	QVIL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/6/2024 12:19	65604	QVIL_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
10/6/2024 12:20	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 12:20	41902	REED_T1	3	3	0	0.7	0.33	-0.37	0	0	0	0	0	0	0	0
10/6/2024 12:42	60801	BUCK_T1	8	3	-5	0.31	0.4	0.09	-0.81	-0.82	1	1	0	600	600	0
10/6/2024 12:42	60803	BUCK_T1	7	1	-6	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
10/6/2024 12:43	60803	BUCK_T1	7	1	-6	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
10/6/2024 12:43	24101	EHAZ_T1	1	1	0	0.5	1.5	1	0	0	0	0	0	0	0	0
10/6/2024 12:43	60801	BUCK_T1	8	3	-5	0.31	0.4	0.09	-0.81	-0.82	1	1	0	600	600	0
10/6/2024 12:43	24102	EHAZ_T1	2	2	0	0.3	0.3	-0.3	0	0	0	0	0	0	0	0
10/6/2024 12:43	24105	EHAZ_T1	4	4	0	6.45	6.33	-0.12	-2.02	-1.91	1	1	0	1200	1200	0
10/6/2024 12:44	61801	EELI_T2	0	0	0	0	0	0	-0.79	-0.77	1	1	0	600	600	0
10/6/2024 12:48	63501	HEID_TBK1-2	42	28	-14	0.31	0.24	-0.07	-0.29	-0.24	1	1	0	900	900	0
10/6/2024 12:49	13501	MCMI_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
10/6/2024 12:49	54506	ENOL_T2	0	0	0	0	0	0	0.5	0.51	1	1	0	600	600	0
10/6/2024 12:49	63501	HEID_TBK1-2	42	28	-14	0.31	0.24	-0.07	-0.88	-0.72	3	3	0	2700	2700	0
10/6/2024 12:50	63501	HEID_TBK1-2	42	28	-14	0.31	0.24	-0.07	-0.29	-0.24	1	1	0	900	900	0
10/6/2024 12:50	64305	LINC_T1	1	0	-1	0.1	0	-0.1	-0.52	-0.5	0	0	0	0	0	0
10/6/2024 12:51	44902	SCOT_T2	0	2	2	0	0.2	0.2	-2.04	-2.13	0	0	0	0	0	0
10/6/2024 12:52	14802	TREI_T2	3	1	-2	0.27	0.5	0.23	0.43	0.43	0	0	0	0	0	0
10/6/2024 12:53	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 12:57	45501	DERR_T2	0	1	1	0	0.2	0.2	0.35	0.36	1	1	0	600	600	0
10/6/2024 13:00	40901	JESH_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
10/6/2024 13:00	40902	JESH_T1	0	0	0	0	0	0	-1.53	-1.49	1	1	0	600	600	0
10/6/2024 13:00	45501	DERR_T2	1	1	0	0.1	0.2	0.1	0.35	0.36	1	1	0	600	600	0
10/6/2024 13:01	40902	JESH_T1	0	0	0	0	0	0	-1.53	-1.49	1	1	0	600	600	0
10/6/2024 13:01	40901	JESH_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
10/6/2024 13:15	45501	DERR_T2	1	1	0	0.2	0.2	0	0.36	0.36	1	1	0	600	600	0
10/6/2024 13:19	64204	KINZ_T1	17	21	4	0.32	0.3	-0.02	0	0	0	0	0	0	0	0
10/6/2024 13:19	64202	KINZ_T1	4	1	-3	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/6/2024 13:19	64201	KINZ_T1	1	1	0	0.9	0.6	-0.3	-0.55	-0.44	2	2	0	1200	1200	0
10/6/2024 13:21	43801	SWIL_T1	2	2	0	3.2	3.2	0	0	0	0	0	0	0	0	0
10/6/2024 13:21	43802	SWIL_T1	0	0	0	0	0	0	-0.14	-0.14	1	1	0	600	600	0
10/6/2024 13:23	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
10/6/2024 13:26	14203	EALL_T1	1	1	0	0.2	0.1	-0.1	-0.34	-0.37	1	1	0	1200	1200	0
10/6/2024 13:27	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
10/6/2024 13:42	21501	CEAV_T2	0	0	0	0	0	0	1.99	2.03	0	0	0	0	0	0
10/6/2024 13:44	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 14:11	21206	ECAR_T2	1	1	0	6.6	6.5	-0.1	1.37	1.33	0	0	0	0	0	0
10/6/2024 14:11	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 14:19	44202	POIN_T2	0	1	1	0	0.2	0.2	-0.97	-0.97	1	1	0	1200	1200	0
10/6/2024 14:24	53101	WTWN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/6/2024 14:24	53102	WTWN_T1	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
10/6/2024 14:28	53101	WTWN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/6/2024 14:28	53102	WTWN_T1	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
10/6/2024 14:33	64101	REFR_T1	2	9	7	1.15	0.48	-0.67	0	0	0	0	0	0	0	0
10/6/2024 14:34	64101	REFR_T1	2	9	7	1.15	0.48	-0.67	0	0	0	0	0	0	0	0
10/6/2024 14:34	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 14:35	64101	REFR_T1	2	9	7	1.15	0.48	-0.67	0	0	0	0	0	0	0	0
10/6/2024 14:36	64101	REFR_T1	2	9	7	1.15	0.48	-0.67	0	0	0	0	0	0	0	0
10/6/2024 14:38	64101	REFR_T1	2	9	7	1.15	0.48	-0.67	0	0	0	0	0	0	0	0
10/6/2024 14:43	61301	EARL_T1	0	0	0	0	0	0	-1.11	-1.14	2	2	0	1800	1800	0
10/6/2024 14:43	61302	EARL_T1	3	3	0	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
10/6/2024 14:44	66502	SMAN_T2	2	0	-2	0.15	0	-0.15	-0.14	-0.1	0	0	0	0	0	0
10/6/2024 14:44	66504	SMAN_T2	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
10/6/2024 14:44	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/6/2024 14:45	10805	CHHI_T2	1	1	0	8	7.9	-0.1	-1.62	-1.63	1	1	0	600	600	0
10/6/2024 14:53	44301	BEAV_T2	3	10	7	0.27	0.19	-0.08	0	0	0	0	0	0	0	0
10/6/2024 14:54	42701	AUGU_T1	1	2	1	0.1	0.3	0.2	0	0	2	2	0	1800	1800	0
10/6/2024 14:56	64201	KINZ_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/6/2024 14:56	64202	KINZ_T1	0	0	0	0	0	0	0.9	0.93	0	0	0	0	0	0
10/6/2024 14:56	64204	KINZ_T1	2	3	1	0.55	0.93	0.38	0	0	0	0	0	0	0	0
10/6/2024 14:58	61302	EARL_T1	3	1	-2	0.4	0.7	0.3	0	0	0	0	0	0	0	0
10/6/2024 14:58	61301	EARL_T1	0	0	0	0	0	0	-1.14	-1.12	2	2	0	1800	1800	0
10/6/2024 14:59	20403	ASHF_T2	2	1	-1	0.45	0.2	-0.25	0.11	0.12	0	0	0	0	0	0
10/6/2024 15:09	44301	BEAV_T2	4	10	6	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
10/6/2024 15:16	20601	GRWO_T2	0	1	1	0	0.2	0.2	0.65	-0.29	0	0	0	0	0	0
10/6/2024 15:28	44502	HAMI_T2	1	1	0	3	2.9	-0.1	0	0	0	0	0	0	0	0
10/6/2024 15:28	44505	HAMI_T2	0	0	0	0	0	0	0.71	0.73	0	0	0	0	0	0
10/6/2024 15:32	20601	GRWO_T2	1	0	-1	0.2	0	-0.2	-0.29	-0.25	0	0	0	0	0	0
10/6/2024 15:32	20603	GRWO_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
10/6/2024 15:33	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 15:33	44502	HAMI_T2	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
10/6/2024 15:40	21504	CEAV_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/6/2024 15:44	44801	EDAN_T2	48	50	2	0.32	0.28	-0.04	-1.6	-1.62	0	0	0	0	0	0
10/6/2024 15:54	22001	BOHE_T1	15	7	-8	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
10/6/2024 15:54	22002	BOHE_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
10/6/2024 15:54	22003	BOHE_T1	252	252	0	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
10/6/2024 15:57	45902	AUBU_T1	1	1	0	1.4	1.2	-0.2	-0.51	-0.46	0	0	0	0	0	0
10/6/2024 16:03	66302	MCGO_T2	0	0	0	0	0	0	-2.99	-2.94	2	2	0	1200	1200	0
10/6/2024 16:03	66303	MCGO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/6/2024 16:19	65205	PRIN_T1	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
10/6/2024 16:19	65203	PRIN_T1	1	0	-1	9.4	0	-9.4	0	0	0	0	0	0	0	0
10/6/2024 16:21	65207	PRIN_T4	5	2	-3	0.18	0.3	0.12	0	0	2	2	0	1800	1800	0
10/6/2024 16:21	65206	PRIN_T4	0	2	2	0	1.65	1.65	0	0	0	0	0	0	0	0
10/6/2024 16:46	55405	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 17:02	40101	HUNT_T2	8	5	-3	0.35	0.3	-0.05	-0.62	-0.6	0	0	0	0	0	0
10/6/2024 17:18	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/6/2024 17:18	50107	HARR_T3	1	1	0	7.7	7.8	0.1	0	0	0	0	0	0	0	0
10/6/2024 17:18	50105	HARR_T3	6	6	0	6.83	6.77	-0.06	0	0	0	0	0	0	0	0
10/6/2024 17:28	44502	HAMI_T2	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
10/6/2024 17:28	44503	HAMI_T2	0	0	0	0	0	0	-1.19	-1.17	1	1	0	1200	1200	0
10/6/2024 17:34	40101	HUNT_T2	3	8	5	0.3	0.2	-0.1	-0.64	-0.65	0	0	0	0	0	0
10/6/2024 17:36	63501	HEID_TBK1-2	1	2	1	0.5	0.25	-0.25	-0.2	-0.26	1	1	0	900	900	0
10/6/2024 17:39	44905	SCOT_T1	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/6/2024 17:50	46101	MACI_T2	0	0	0	0	0	0	-0.63	-0.63	1	1	0	1200	1200	0
10/6/2024 18:02	54505	ENOL_T2	0	0	0	0	0	0	-1.18	-1.19	1	1	0	600	600	0
10/6/2024 18:06	52002	LING_T2	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
10/6/2024 18:06	52004	LING_T2	2	2	0	4.1	4.3	0.2	0	0	0	0	0	0	0	0
10/6/2024 18:07	52002	LING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 18:07	52004	LING_T2	2	2	0	4.1	4.3	0.2	0	0	0	0	0	0	0	0
10/6/2024 19:53	10801	CHHI_T1	0	0	0	0	0	0	-1.88	-1.88	3	3	0	2100	2100	0
10/6/2024 20:06	64602	LEOL_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
10/6/2024 20:16	41301	FISH_T1	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
10/6/2024 20:27	28704	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/6/2024 20:32	22002	BOHE_T1	5	5	0	0.1	0.1	0	0.3	0.28	0	0	0	0	0	0
10/6/2024 20:32	22001	BOHE_T1	50	111	61	0.13	0.16	0.03	0	0	0	0	0	0	0	0
10/6/2024 20:32	44502	HAMI_T2	1	1	0	3.1	3.4	0.3	0	0	0	0	0	0	0	0
10/6/2024 20:32	24902	WHHA_T1	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
10/6/2024 20:32	22003	BOHE_T1	283	310	27	0.7	0.72	0.02	-0.2	-0.2	0	0	0	0	0	0
10/6/2024 20:32	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
10/6/2024 20:32	41301	FISH_T1	2	2	0	0.85	0.3	-0.55	-0.19	-0.2	0	0	0	0	0	0
10/6/2024 20:32	44503	HAMI_T2	0	0	0	0	0	0	-1.22	-1.23	1	1	0	1200	1200	0
10/6/2024 20:34	14802	TREI_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
10/6/2024 20:34	13905	SEID_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
10/6/2024 20:34	46004	BERW_T2	0	0	0	0	0	0	-0.63	-0.56	0	0	0	0	0	0
10/6/2024 20:34	15703	TANN_T2	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
10/6/2024 20:34	14801	TREI_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
10/6/2024 20:34	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
10/6/2024 20:35	24101	EHAZ_T1	1	1	0	1.4	0	-1.4	0	0	0	0	0	0	0	0
10/6/2024 20:35	22002	BOHE_T1	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/6/2024 20:35	23403	HONE_T1	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
10/6/2024 20:35	24105	EHAZ_T1	4	4	0	6.23	5.98	-0.25	-2.15	-2.1	1	1	0	1200	1200	0
10/6/2024 20:35	42601	TUSC_T1	0	0	0	0	0	0	-0.45	-0.47	2	2	0	1800	1800	0
10/6/2024 20:35	22001	BOHE_T1	50	111	61	0.13	0.16	0.03	0.23	0.22	0	0	0	0	0	0
10/6/2024 20:35	22003	BOHE_T1	283	310	27	0.7	0.72	0.02	0	0	0	0	0	0	0	0
10/6/2024 20:35	25402	LAHA_T2	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
10/6/2024 20:36	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 20:36	23401	HONE_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
10/6/2024 20:36	10805	CHHI_T2	1	1	0	8	7.9	-0.1	-1.57	-1.6	1	1	0	600	600	0
10/6/2024 20:36	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
10/6/2024 20:36	13503	MCMI_T2	1	0	-1	0.2	0	-0.2	-0.91	-0.93	0	0	0	0	0	0
10/6/2024 20:36	40101	HUNT_T2	0	1	1	0	0	0	-1.22	-1.27	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/6/2024 20:36	45501	DERR_T2	2	0	-2	0.9	0	-0.9	0.05	0.02	1	1	0	600	600	0
10/6/2024 20:36	13303	ORVI_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
10/6/2024 20:37	22903	HARW_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
10/6/2024 20:37	22905	HARW_T1	15	6	-9	1.03	0	-1.03	0	0	0	0	0	0	0	0
10/6/2024 20:37	14203	EALL_T1	0	0	0	0	0	0	-0.38	-0.47	1	1	0	1200	1200	0
10/6/2024 20:37	15703	TANN_T2	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
10/6/2024 20:37	24902	WHHA_T1	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
10/6/2024 20:37	45902	AUBU_T1	0	0	0	0	0	0	-0.51	-0.55	0	0	0	0	0	0
10/6/2024 20:37	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
10/6/2024 20:37	22901	HARW_T1	0	0	0	0	0	0	-2.06	-2.09	1	1	0	1200	1200	0
10/6/2024 20:38	14801	TREI_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
10/6/2024 20:38	46101	MACI_T2	0	0	0	0	0	0	-0.62	-0.64	1	1	0	1200	1200	0
10/6/2024 20:38	64204	KINZ_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/6/2024 20:38	64201	KINZ_T1	1	1	0	0.1	1.1	1	-0.82	-0.55	3	2	-1	1500	1200	-300
10/6/2024 20:38	45902	AUBU_T1	0	0	0	0	0	0	-0.51	-0.55	0	0	0	0	0	0
10/6/2024 20:38	64202	KINZ_T1	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
10/6/2024 20:38	14802	TREI_T2	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
10/6/2024 20:38	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	1	-1	1800	600	-1200
10/6/2024 20:39	67605	WARW_T1	3	7	4	0.2	0.29	0.09	-1.12	-1.1	0	0	0	0	0	0
10/6/2024 20:39	21206	ECAR_T2	1	1	0	7.1	7.1	0	1.39	1.35	0	0	0	0	0	0
10/6/2024 20:39	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 20:39	45501	DERR_T2	2	0	-2	0.9	0	-0.9	0.05	0.02	1	1	0	600	600	0
10/6/2024 20:40	67605	WARW_T1	3	7	4	0.2	0.29	0.09	0	0	0	0	0	0	0	0
10/6/2024 20:40	24701	FLND_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
10/6/2024 20:40	64202	KINZ_T1	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
10/6/2024 20:40	62106	ELAN_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
10/6/2024 20:40	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
10/6/2024 20:40	41301	FISH_T1	2	2	0	0.85	0.3	-0.55	-0.2	-0.18	0	0	0	0	0	0
10/6/2024 20:40	13503	MCMI_T2	1	0	-1	0.2	0	-0.2	-0.91	-0.93	0	0	0	0	0	0
10/6/2024 20:40	66504	SMAN_T2	0	0	0	0	0	0	-3.47	-1.05	2	0	-2	2400	0	-2400
10/6/2024 20:40	50105	HARR_T3	6	6	0	6.33	6.03	-0.3	0	0	0	0	0	0	0	0
10/6/2024 20:40	50201	HARR_T3	1	1	0	0.3	0.5	0.2	0	0	1	1	0	1200	1200	0
10/6/2024 20:40	20401	ASHF_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
10/6/2024 20:40	50107	HARR_T3	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
10/6/2024 20:40	45902	AUBU_T1	0	0	0	0	0	0	-1.02	-1.1	0	0	0	0	0	0
10/6/2024 20:40	64201	KINZ_T1	1	1	0	0.1	1.1	1	-0.82	-0.55	3	2	-1	1500	1200	-300
10/6/2024 20:40	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/6/2024 20:40	13302	ORVI_T2	0	0	0	0	0	0	1.09	1.08	0	0	0	0	0	0
10/6/2024 20:40	14801	TREI_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
10/6/2024 20:40	64204	KINZ_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/6/2024 20:40	67603	WARW_T1	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
10/6/2024 20:40	64101	REFR_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/6/2024 20:40	41902	REED_T1	0	0	0	0	0	0	0.83	0.79	0	0	0	0	0	0
10/6/2024 20:40	14802	TREI_T2	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
10/6/2024 20:41	48302	ORWI_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/6/2024 20:41	24603	VARD_T2	6	12	6	0.1	0.18	0.08	0	0	0	0	0	0	0	0
10/6/2024 20:41	65001	NEFF_T2	0	0	0	0	0	0	-1.24	-1.26	1	1	0	1200	1200	0
10/6/2024 20:41	24602	VARD_T2	3	15	12	0.63	0.27	-0.36	0	0	0	0	0	0	0	0
10/6/2024 20:41	67503	WEWI_T2	1	1	0	6.1	6.9	0.8	-0.75	-0.75	0	0	0	0	0	0
10/6/2024 20:41	20601	GRWO_T2	0	14	14	0	0.16	0.16	0	0	0	0	0	0	0	0
10/6/2024 20:41	54506	ENOL_T2	0	0	0	0	0	0	0.61	0.66	1	1	0	600	600	0
10/6/2024 20:41	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/6/2024 20:41	60801	BUCK_T1	0	14	14	0	0.14	0.14	-0.86	-0.88	1	1	0	600	600	0
10/6/2024 20:41	14801	TREI_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
10/6/2024 20:41	14802	TREI_T2	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
10/6/2024 20:41	20603	GRWO_T2	0	5	5	0	0.1	0.1	0.37	0.33	0	0	0	0	0	0
10/6/2024 20:42	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/6/2024 20:42	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 20:42	40901	JESH_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/6/2024 20:42	46801	HEPB_T2	2	2	0	0.75	0.8	0.05	0.61	0.56	0	0	0	0	0	0
10/6/2024 20:42	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	1	-1	1800	600	-1200
10/6/2024 20:42	43802	SWIL_T1	0	0	0	0	0	0	-0.12	-0.14	1	1	0	600	600	0
10/6/2024 20:42	43801	SWIL_T1	2	2	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
10/6/2024 20:42	45901	AUBU_T1	0	0	0	0	0	0	0.95	0.98	0	0	0	0	0	0
10/6/2024 20:42	40902	JESH_T1	0	0	0	0	0	0	-1.48	-1.51	1	1	0	600	600	0
10/6/2024 20:42	63501	HEID_TBK1-2	36	36	0	0.28	0.4	0.12	-0.9	-1.11	3	3	0	2700	2700	0
10/6/2024 20:42	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 20:42	16103	BING_T2	0	0	0	0	0	0	-1.42	-1.46	1	1	0	900	900	0
10/6/2024 20:43	46004	BERW_T2	0	0	0	0	0	0	-0.56	-0.6	0	0	0	0	0	0
10/6/2024 20:43	50105	HARR_T3	6	6	0	6.33	6.03	-0.3	0	0	0	0	0	0	0	0
10/6/2024 20:43	44801	EDAN_T2	41	54	13	0.35	0.33	-0.02	-1.67	-1.68	0	0	0	0	0	0
10/6/2024 20:43	62106	ELAN_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
10/6/2024 20:43	44505	HAMI_T2	0	0	0	0	0	0	0.67	0.64	0	0	0	0	0	0
10/6/2024 20:43	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 20:43	40602	PIGR_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/6/2024 20:43	50107	HARR_T3	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
10/6/2024 20:43	50201	HARR_T3	1	1	0	0.3	0.5	0.2	0	0	1	1	0	1200	1200	0
10/6/2024 20:43	10801	CHHI_T1	0	0	0	0	0	0	-1.95	-1.98	3	3	0	2100	2100	0
10/6/2024 20:43	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/6/2024 20:43	44502	HAMI_T2	1	1	0	3.1	3.4	0.3	0	0	0	0	0	0	0	0
10/6/2024 20:43	42701	AUGU_T1	0	0	0	0	0	0	0	0	4	2	-2	3600	1200	-2400
10/6/2024 20:44	64402	LAND_T2	0	0	0	0	0	0	-0.55	-0.54	1	1	0	600	600	0
10/6/2024 20:44	65203	PRIN_T1	0	25	25	0	0.1	0.1	0	0	0	0	0	0	0	0
10/6/2024 20:44	64101	REFR_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/6/2024 20:44	66303	MCGO_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/6/2024 20:44	44902	SCOT_T2	0	0	0	0	0	0	-2.13	-2.13	0	0	0	0	0	0
10/6/2024 20:44	67605	WARW_T1	3	7	4	0.2	0.29	0.09	-1.12	-1.1	0	0	0	0	0	0
10/6/2024 20:44	65202	PRIN_T1	0	62	62	0	0.13	0.13	0	0	0	0	0	0	0	0
10/6/2024 20:44	65205	PRIN_T1	26	76	50	0.19	0.27	0.08	0	0	0	0	0	0	0	0
10/6/2024 20:44	66505	SMAN_T2	0	0	0	0	0	0	0.48	0.47	1	1	0	900	900	0
10/6/2024 20:44	46801	HEPB_T2	2	2	0	0.75	0.8	0.05	0.61	0.56	0	0	0	0	0	0
10/6/2024 20:44	66302	MCGO_T2	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
10/6/2024 20:44	60801	BUCK_T1	0	14	14	0	0.14	0.14	-0.86	-0.88	1	1	0	600	600	0
10/6/2024 20:45	46004	BERW_T2	0	1	1	0	0	0	-0.56	-0.6	0	0	0	0	0	0
10/6/2024 20:45	40602	PIGR_T1	1	1	0	0.1	0.2	0.1	-1.93	-1.95	1	1	0	600	600	0
10/6/2024 20:45	63501	HEID_TBK1-2	35	35	0	0.23	0.4	0.17	-0.3	-0.37	1	1	0	900	900	0
10/6/2024 20:45	61301	EARL_T1	0	0	0	0	0	0	-0.93	-0.5	2	1	-1	1800	900	-900
10/6/2024 20:45	14802	TREI_T2	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
10/6/2024 20:46	65503	MOJO_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
10/6/2024 20:46	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
10/6/2024 20:46	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 20:46	20601	GRWO_T2	4	14	10	0.15	0.16	0.01	-0.34	-0.37	0	0	0	0	0	0
10/6/2024 20:46	64204	KINZ_T1	1	1	0	0.5	1.3	0.8	0	0	0	0	0	0	0	0
10/6/2024 20:46	60201	ATGL_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
10/6/2024 20:46	64202	KINZ_T1	3	3	0	0.2	0.57	0.37	0	0	0	0	0	0	0	0
10/6/2024 20:46	64201	KINZ_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
10/6/2024 20:46	66504	SMAN_T2	0	0	0	0	0	0	-1.74	-0.53	1	0	-1	1200	0	-1200
10/6/2024 20:46	64203	KINZ_T1	0	0	0	0	0	0	-0.43	-0.44	1	1	0	600	600	0
10/6/2024 20:46	40902	JESH_T1	0	0	0	0	0	0	-1.48	-1.51	1	1	0	600	600	0
10/6/2024 20:46	40901	JESH_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
10/6/2024 20:46	20603	GRWO_T2	1	10	9	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/6/2024 20:46	66502	SMAN_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
10/6/2024 20:47	60201	ATGL_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
10/6/2024 20:47	53102	WTWN_T1	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
10/6/2024 20:47	21501	CEAV_T2	0	0	0	0	0	0	1.17	1.16	0	0	0	0	0	0
10/6/2024 20:47	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 20:47	55405	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 20:47	21504	CEAV_T1	0	0	0	0	0	0	0	0	1	0	-1	1200	0	-1200
10/6/2024 20:48	61001	DONV_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
10/6/2024 20:48	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 20:48	65604	QVIL_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
10/6/2024 20:48	66502	SMAN_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
10/6/2024 20:48	64101	REFR_T1	2	2	0	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
10/6/2024 20:48	64305	LINC_T1	0	0	0	0	0	0	-0.56	-0.52	0	0	0	0	0	0
10/6/2024 20:48	40101	HUNT_T2	1	0	-1	0.3	0	-0.3	-1.27	-1.27	0	0	0	0	0	0
10/6/2024 20:49	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 20:49	64101	REFR_T1	2	2	0	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
10/6/2024 20:49	61801	EELI_T2	0	0	0	0	0	0	-0.87	-0.89	1	1	0	600	600	0
10/6/2024 20:50	60803	BUCK_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/6/2024 20:50	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 20:50	67501	WEWI_T1	0	0	0	0	0	0	-2.15	-2.19	1	1	0	600	600	0
10/6/2024 20:50	64204	KINZ_T1	1	1	0	0.5	1.3	0.8	0	0	0	0	0	0	0	0
10/6/2024 20:50	64201	KINZ_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
10/6/2024 20:50	64203	KINZ_T1	0	0	0	0	0	0	-0.43	-0.44	1	1	0	600	600	0
10/6/2024 20:50	60801	BUCK_T1	0	19	19	0	0.14	0.14	-0.86	-0.88	1	1	0	600	600	0
10/6/2024 20:50	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 20:50	64101	REFR_T1	2	2	0	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
10/6/2024 20:50	64202	KINZ_T1	3	3	0	0.2	0.57	0.37	0	0	0	0	0	0	0	0
10/6/2024 20:51	66302	MCGO_T2	0	0	0	0	0	0	-1.1	-1.27	1	1	0	600	600	0
10/6/2024 20:51	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2024 20:51	63501	HEID_TBK1-2	35	35	0	0.23	0.4	0.17	-0.37	-0.39	1	1	0	900	900	0
10/6/2024 20:51	58401	MORO_T1	0	0	0	0	0	0	-2.11	-2.19	2	2	0	1200	1200	0
10/6/2024 20:51	66303	MCGO_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
10/6/2024 20:52	58401	MORO_T1	0	0	0	0	0	0	-1.1	-1.06	1	1	0	600	600	0
10/6/2024 20:52	65206	PRIN_T4	2	11	9	6.55	0.47	-6.08	0	0	0	0	0	0	0	0
10/6/2024 20:52	65502	MOJO_T2	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
10/6/2024 20:52	63305	GREE_T1	2	15	13	0.1	0.24	0.14	0	0	0	0	0	0	0	0
10/6/2024 20:52	65207	PRIN_T4	4	20	16	0.33	0.18	-0.15	0	0	1	1	0	1200	1200	0
10/6/2024 20:52	41301	FISH_T1	2	1	-1	0.3	0.2	-0.1	-0.18	-0.18	0	0	0	0	0	0
10/6/2024 20:52	64101	REFR_T1	2	2	0	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
10/6/2024 20:52	63302	GREE_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
10/6/2024 20:52	67805	WLAN_T1	0	0	0	0	0	0	-1.42	-1.47	0	0	0	0	0	0
10/6/2024 20:53	58401	MORO_T1	0	0	0	0	0	0	-1.1	-1.06	1	1	0	600	600	0
10/6/2024 20:53	63501	HEID_TBK1-2	35	35	0	0.23	0.4	0.17	-0.37	-0.39	1	1	0	900	900	0
10/6/2024 20:53	64101	REFR_T1	2	2	0	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
10/6/2024 20:54	52002	LING_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
10/6/2024 20:54	52004	LING_T2	2	2	0	4.65	4.75	0.1	0	0	0	0	0	0	0	0
10/6/2024 20:55	54505	ENOL_T2	1	1	0	0.1	0.2	0.1	-1.22	-1.27	1	1	0	600	600	0
10/6/2024 20:55	63803	HEMP_T1	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
10/6/2024 20:55	63801	HEMP_T1	0	1	1	0	0.2	0.2	-0.21	-0.26	0	0	0	0	0	0
10/6/2024 20:55	63804	HEMP_T1	1	5	4	5.3	1.16	-4.14	0	0	0	0	0	0	0	0
10/6/2024 22:25	50202	HARR_T3	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/6/2024 22:25	50105	HARR_T3	6	6	0	5.82	5.73	-0.09	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/6/2024 22:25	50103	HARR_T3	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
10/6/2024 22:25	50107	HARR_T3	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
10/6/2024 22:25	50201	HARR_T3	1	1	0	0.7	0.6	-0.1	0	0	1	1	0	1200	1200	0
10/6/2024 22:27	53102	WTWN_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
10/6/2024 22:55	10801	CHHI_T1	0	0	0	0	0	0	-1.51	-1.5	2	2	0	1500	1500	0
10/7/2024 7:44	21501	CEAV_T2	0	0	0	0	0	0	1.19	1.24	0	0	0	0	0	0
10/7/2024 7:53	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 7:59	61503	EPET_T1	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
10/7/2024 8:05	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.47	0	0	0	0	0	0
10/7/2024 8:09	50625	CCTY_T2	4	5	1	3.18	2.58	-0.6	0	0	0	0	0	0	0	0
10/7/2024 8:09	50624	CCTY_T2	2	2	0	5.95	5.85	-0.1	0	0	0	0	0	0	0	0
10/7/2024 8:09	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 8:09	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 8:09	50623	CCTY_T2	5	5	0	5.5	5.32	-0.18	0	0	0	0	0	0	0	0
10/7/2024 8:13	44801	EDAN_T2	0	145	145	0	0.44	0.44	0	0	0	0	0	0	0	0
10/7/2024 8:13	44802	EDAN_T2	0	0	0	0	0	0	-0.76	-0.81	0	0	0	0	0	0
10/7/2024 8:15	44801	EDAN_T2	142	138	-4	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
10/7/2024 8:15	44802	EDAN_T2	0	0	0	0	0	0	-0.76	-0.81	0	0	0	0	0	0
10/7/2024 8:19	63601	LETO_T1	1	0	-1	0.3	0	-0.3	0.49	0.71	1	1	0	900	900	0
10/7/2024 8:20	51702	OBER_T1	2	2	0	3.4	3.55	0.15	0	0	0	0	0	0	0	0
10/7/2024 8:20	57201	ROSS_T1	1	55	54	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/7/2024 8:20	57203	ROSS_T1	0	0	0	0	0	0	-0.33	-0.38	0	0	0	0	0	0
10/7/2024 8:20	51704	OBER_T1	0	0	0	0	0	0	-1.75	-1.75	1	1	0	1200	1200	0
10/7/2024 8:20	45501	DERR_T2	0	1	1	0	0.1	0.1	0.68	0.71	2	2	0	1800	1800	0
10/7/2024 8:21	57303	MOAL_T2	1	1	0	7.5	6.9	-0.6	0	0	0	0	0	0	0	0
10/7/2024 8:21	64202	KINZ_T1	3	0	-3	0.33	0	-0.33	0.77	0.83	0	0	0	0	0	0
10/7/2024 8:21	64204	KINZ_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/7/2024 8:21	57306	MOAL_T2	0	0	0	0	0	0	-3.25	-3.24	1	1	0	1200	1200	0
10/7/2024 8:23	57203	ROSS_T1	0	0	0	0	0	0	-0.38	0	0	0	0	0	0	0
10/7/2024 8:23	57205	ROSS_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
10/7/2024 8:23	57201	ROSS_T1	1	55	54	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/7/2024 8:24	67505	WEWI_T1	0	0	0	0	0	0	-0.22	-0.13	1	1	0	900	900	0
10/7/2024 8:25	67505	WEWI_T1	0	0	0	0	0	0	-0.22	-0.13	1	1	0	900	900	0
10/7/2024 8:25	10205	ALLE_T3	0	5	5	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 8:25	51603	DUKE_T1	0	1	1	0	0.1	0.1	83.96	83.96	0	0	0	0	0	0
10/7/2024 8:25	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 8:26	51603	DUKE_T1	0	1	1	0	0.1	0.1	83.96	83.96	0	0	0	0	0	0
10/7/2024 8:30	51603	DUKE_T1	1	0	-1	0.1	0	-0.1	83.96	83.96	0	0	0	0	0	0
10/7/2024 8:31	51603	DUKE_T1	1	0	-1	0.1	0	-0.1	83.96	83.96	0	0	0	0	0	0
10/7/2024 8:34	64801	MONE_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/7/2024 8:34	64802	MONE_T2	0	0	0	0	0	0	0.3	0.33	0	0	0	0	0	0
10/7/2024 8:35	57201	ROSS_T1	2	55	53	0.1	0.2	0.1	-1.13	-1.08	0	0	0	0	0	0
10/7/2024 8:35	15203	SFAR_T2	2	0	-2	0.2	0	-0.2	-1.29	-1.27	0	0	0	0	0	0
10/7/2024 8:36	43801	SWIL_T1	1	2	1	5	2.55	-2.45	0	0	0	0	0	0	0	0
10/7/2024 8:36	43802	SWIL_T1	0	0	0	0	0	0	-0.23	-0.21	1	1	0	600	600	0
10/7/2024 8:38	47402	PENS_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
10/7/2024 8:38	47403	PENS_T1	1	1	0	2	1.1	-0.9	0	0	0	0	0	0	0	0
10/7/2024 8:38	47401	PENS_T1	0	3	3	0	0.3	0.3	-0.75	0.45	0	0	0	0	0	0
10/7/2024 8:39	57201	ROSS_T1	2	55	53	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/7/2024 8:39	57203	ROSS_T1	0	0	0	0	0	0	0	0.31	0	0	0	0	0	0
10/7/2024 8:39	15203	SFAR_T2	2	0	-2	0.2	0	-0.2	-1.27	-1.29	0	0	0	0	0	0
10/7/2024 8:48	50107	HARR_T3	1	1	0	7.2	6.7	-0.5	0	0	0	0	0	0	0	0
10/7/2024 8:48	50103	HARR_T3	2	2	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
10/7/2024 8:48	50201	HARR_T3	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/7/2024 8:48	50105	HARR_T3	6	6	0	5.3	5.38	0.08	0	0	0	0	0	0	0	0
10/7/2024 8:49	55002	NEWP_T1	5	6	1	0.76	0.62	-0.14	-0.21	-0.19	0	0	0	0	0	0
10/7/2024 8:50	55101	WERT_T1	0	0	0	0	0	0	-0.69	-0.6	1	1	0	600	600	0
10/7/2024 8:52	17002	RIRO_T2	4	1	-3	0.15	0.4	0.25	0.65	0.65	0	0	0	0	0	0
10/7/2024 8:54	16301	ALPA_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
10/7/2024 8:55	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
10/7/2024 8:55	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 8:55	63803	HEMP_T1	0	1	1	0	0.1	0.1	0.11	0.12	0	0	0	0	0	0
10/7/2024 8:55	61101	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/7/2024 8:55	40602	PIGR_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
10/7/2024 8:56	16301	ALPA_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
10/7/2024 9:00	50105	HARR_T3	6	6	0	5.38	5.52	0.14	0	0	0	0	0	0	0	0
10/7/2024 9:00	50103	HARR_T3	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
10/7/2024 9:00	50107	HARR_T3	1	1	0	6.9	6.7	-0.2	0	0	0	0	0	0	0	0
10/7/2024 9:03	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/7/2024 9:05	15203	SFAR_T2	0	3	3	0	0.27	0.27	-1.29	-1.26	0	0	0	0	0	0
10/7/2024 9:05	13303	ORVI_T1	0	0	0	0	0	0	-0.23	1.06	0	0	0	0	0	0
10/7/2024 9:06	67201	TEHI_T1	0	0	0	0	0	0	0.98	1.15	1	1	0	900	900	0
10/7/2024 9:06	15203	SFAR_T2	0	3	3	0	0.27	0.27	-1.29	-1.26	0	0	0	0	0	0
10/7/2024 9:06	14801	TREI_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
10/7/2024 9:06	13303	ORVI_T1	0	0	0	0	0	0	-0.23	1.06	0	0	0	0	0	0
10/7/2024 9:07	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 9:08	14801	TREI_T2	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
10/7/2024 9:08	65601	QVIL_T2	0	0	0	0	0	0	-0.95	-1.05	1	1	0	900	900	0
10/7/2024 9:08	65603	QVIL_T2	0	0	0	0	0	0	0.24	0.54	0	0	0	0	0	0
10/7/2024 9:09	15203	SFAR_T2	0	3	3	0	0.27	0.27	-1.26	-1.22	0	0	0	0	0	0
10/7/2024 9:10	15203	SFAR_T2	0	3	3	0	0.27	0.27	-1.26	-1.22	0	0	0	0	0	0
10/7/2024 9:12	63501	HEID_TBK1-2	2	3	1	0.85	0.77	-0.08	0.32	0.23	1	1	0	900	900	0
10/7/2024 9:14	63501	HEID_TBK1-2	2	3	1	0.85	0.77	-0.08	0.32	0.23	1	1	0	900	900	0
10/7/2024 9:15	24702	FLND_T2	0	0	0	0	0	0	0.22	0.31	1	1	0	1200	1200	0
10/7/2024 9:17	54505	ENOL_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/7/2024 9:17	54506	ENOL_T2	0	0	0	0	0	0	0.61	0.47	1	1	0	600	600	0
10/7/2024 9:17	54502	ENOL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
10/7/2024 9:21	65004	NEFF_T2	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
10/7/2024 9:23	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 9:30	24105	EHAZ_T1	4	4	0	6.43	6.38	-0.05	0	0	0	0	0	0	0	0
10/7/2024 9:30	24104	EHAZ_T1	0	0	0	0	0	0	-0.84	-0.83	1	1	0	1200	1200	0
10/7/2024 9:30	24101	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 9:30	24102	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 9:31	45501	DERR_T2	0	0	0	0	0	0	0.85	0.84	2	2	0	1800	1800	0
10/7/2024 9:32	64902	MILL_T2	0	1	1	0	0.1	0.1	-0.59	-0.65	1	1	0	900	900	0
10/7/2024 9:33	63501	HEID_TBK1-2	1	1	0	1.4	0.8	-0.6	0.23	0.32	1	1	0	900	900	0
10/7/2024 9:35	57403	SPAN_T1	18	22	4	0.24	0.24	0	0	0	0	0	0	0	0	0
10/7/2024 9:35	57401	SPAN_T1	2	6	4	0.7	0.37	-0.33	-0.32	-0.29	0	0	0	0	0	0
10/7/2024 9:35	64902	MILL_T2	0	1	1	0	0.1	0.1	-0.59	-0.65	1	1	0	900	900	0
10/7/2024 9:36	54601	SUMM_T2	9	7	-2	0.34	0.39	0.05	-1.81	-1.78	2	2	0	2100	2100	0
10/7/2024 9:37	54601	SUMM_T2	9	7	-2	0.34	0.39	0.05	-1.78	-1.77	2	2	0	2100	2100	0
10/7/2024 9:37	57403	SPAN_T1	18	22	4	0.24	0.24	0	0.03	0	0	0	0	0	0	0
10/7/2024 9:37	57401	SPAN_T1	2	6	4	0.7	0.37	-0.33	0	0	0	0	0	0	0	0
10/7/2024 9:37	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/7/2024 9:40	57401	SPAN_T1	2	6	4	0.7	0.37	-0.33	0	0	0	0	0	0	0	0
10/7/2024 9:40	57403	SPAN_T1	18	22	4	0.24	0.24	0	0.03	0	0	0	0	0	0	0
10/7/2024 9:40	54601	SUMM_T2	9	7	-2	0.34	0.39	0.05	-1.78	-1.77	2	2	0	2100	2100	0
10/7/2024 9:42	44802	EDAN_T2	0	0	0	0	0	0	-1.59	-1.6	0	0	0	0	0	0
10/7/2024 9:42	44801	EDAN_T2	144	117	-27	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
10/7/2024 9:43	16301	ALPA_T1	0	0	0	0	0	0	0.11	0.16	0	0	0	0	0	0
10/7/2024 9:43	44801	EDAN_T2	144	117	-27	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
10/7/2024 9:43	44802	EDAN_T2	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
10/7/2024 9:44	54601	SUMM_T2	9	7	-2	0.34	0.39	0.05	-1.78	-1.77	2	2	0	2100	2100	0
10/7/2024 9:45	44802	EDAN_T2	0	0	0	0	0	0	-1.59	-1.6	0	0	0	0	0	0
10/7/2024 9:45	44801	EDAN_T2	107	120	13	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
10/7/2024 9:48	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 9:48	54601	SUMM_T2	7	5	-2	0.39	0.48	0.09	0	0	0	0	0	0	0	0
10/7/2024 9:48	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/7/2024 9:51	43304	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/7/2024 9:51	57403	SPAN_T1	20	26	6	0.19	0.32	0.13	0	0	0	0	0	0	0	0
10/7/2024 9:51	43301	WATS_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
10/7/2024 9:51	57401	SPAN_T1	3	9	6	0.53	0.42	-0.11	-0.29	-0.29	0	0	0	0	0	0
10/7/2024 9:52	43304	WATS_T2	0	1	1	0	0.3	0.3	-0.92	-0.89	0	0	0	0	0	0
10/7/2024 9:52	43301	WATS_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
10/7/2024 9:52	57403	SPAN_T1	20	26	6	0.19	0.32	0.13	0	0	0	0	0	0	0	0
10/7/2024 9:52	57401	SPAN_T1	3	9	6	0.53	0.42	-0.11	-0.29	-0.26	0	0	0	0	0	0
10/7/2024 9:53	43301	WATS_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
10/7/2024 9:53	13704	SCHN_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
10/7/2024 9:53	43304	WATS_T2	0	1	1	0	0.3	0.3	-0.46	-0.45	0	0	0	0	0	0
10/7/2024 9:54	57403	SPAN_T1	20	26	6	0.19	0.32	0.13	0	0	0	0	0	0	0	0
10/7/2024 9:54	57401	SPAN_T1	3	9	6	0.53	0.42	-0.11	-0.29	-0.26	0	0	0	0	0	0
10/7/2024 9:55	57401	SPAN_T1	3	9	6	0.53	0.42	-0.11	-0.59	-0.53	0	0	0	0	0	0
10/7/2024 9:55	57403	SPAN_T1	20	26	6	0.19	0.32	0.13	0	0	0	0	0	0	0	0
10/7/2024 9:56	43301	WATS_T2	1	1	0	0.7	0.9	0.2	-0.81	-0.82	1	1	0	900	900	0
10/7/2024 9:56	67503	WEWI_T2	1	1	0	9.1	9	-0.1	0	0	0	0	0	0	0	0
10/7/2024 9:56	57401	SPAN_T1	3	9	6	0.53	0.42	-0.11	-0.59	-0.53	0	0	0	0	0	0
10/7/2024 9:56	43304	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/7/2024 9:56	44601	SALE_T2	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/7/2024 9:56	57403	SPAN_T1	20	26	6	0.19	0.32	0.13	0	0	0	0	0	0	0	0
10/7/2024 9:56	67502	WEWI_T2	3	1	-2	0.1	0.3	0.2	-0.22	-0.1	0	0	0	0	0	0
10/7/2024 9:58	44601	SALE_T2	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/7/2024 10:00	50105	HARR_T3	6	7	1	5.55	5.06	-0.49	0	0	0	0	0	0	0	0
10/7/2024 10:00	50107	HARR_T3	1	1	0	7.1	6.8	-0.3	0	0	0	0	0	0	0	0
10/7/2024 10:00	59003	MIFF_T1	1	0	-1	0.5	0	-0.5	-1.15	-0.03	0	0	0	0	0	0
10/7/2024 10:00	57403	SPAN_T1	22	27	5	0.23	0.36	0.13	0	0	0	0	0	0	0	0
10/7/2024 10:00	57401	SPAN_T1	6	14	8	0.2	0.46	0.26	-0.29	-0.26	0	0	0	0	0	0
10/7/2024 10:00	67502	WEWI_T2	1	7	6	0.3	0.41	0.11	0	0	0	0	0	0	0	0
10/7/2024 10:00	50103	HARR_T3	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
10/7/2024 10:00	17002	RIRO_T2	1	3	2	0.7	0.7	0	0.71	0.64	0	0	0	0	0	0
10/7/2024 10:00	28102	TWLA_T2	11	12	1	0.46	0.43	-0.03	0.18	0.19	0	0	0	0	0	0
10/7/2024 10:00	67503	WEWI_T2	1	1	0	9	9.2	0.2	-0.15	-0.18	0	0	0	0	0	0
10/7/2024 10:00	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
10/7/2024 10:00	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/7/2024 10:04	65502	MOJO_T2	0	0	0	0	0	0	-0.24	-0.53	1	1	0	900	900	0
10/7/2024 10:08	57403	SPAN_T1	22	27	5	0.23	0.36	0.13	0	0	0	0	0	0	0	0
10/7/2024 10:08	43304	WATS_T2	1	1	0	0.1	0.3	0.2	-0.89	-0.81	0	0	0	0	0	0
10/7/2024 10:08	43301	WATS_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
10/7/2024 10:08	57401	SPAN_T1	6	14	8	0.2	0.46	0.26	-0.26	-0.26	0	0	0	0	0	0
10/7/2024 10:09	15203	SFAR_T2	2	2	0	0.3	0.25	-0.05	-1.19	0	0	0	0	0	0	0
10/7/2024 10:09	57403	SPAN_T1	22	27	5	0.23	0.36	0.13	0.03	0.03	0	0	0	0	0	0
10/7/2024 10:09	67203	TEHI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 10:09	67201	TEHI_T1	0	0	0	0	0	0	1.07	1	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/7/2024 10:09	57401	SPAN_T1	6	14	8	0.2	0.46	0.26	0	0	0	0	0	0	0	0
10/7/2024 10:09	46001	BERW_T1	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
10/7/2024 10:10	57401	SPAN_T1	6	14	8	0.2	0.46	0.26	-0.53	-0.52	0	0	0	0	0	0
10/7/2024 10:10	15203	SFAR_T2	2	2	0	0.3	0.25	-0.05	-1.19	0	0	0	0	0	0	0
10/7/2024 10:10	57403	SPAN_T1	22	27	5	0.23	0.36	0.13	0	0	0	0	0	0	0	0
10/7/2024 10:11	15203	SFAR_T2	2	2	0	0.3	0.25	-0.05	-1.19	0	0	0	0	0	0	0
10/7/2024 10:11	22003	BOHE_T1	234	238	4	0.37	0.39	0.02	0	0	0	0	0	0	0	0
10/7/2024 10:11	57403	SPAN_T1	22	27	5	0.23	0.36	0.13	0.03	0.03	0	0	0	0	0	0
10/7/2024 10:11	64602	LEOL_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
10/7/2024 10:11	57401	SPAN_T1	6	14	8	0.2	0.46	0.26	-0.26	-0.26	0	0	0	0	0	0
10/7/2024 10:11	22003	BOHE_T1	0	1	1	0	0.1	0.1	0.18	0.15	0	0	0	0	0	0
10/7/2024 10:12	61801	EELI_T2	0	2	2	0	0.15	0.15	-0.58	-0.51	1	1	0	600	600	0
10/7/2024 10:12	61001	DONV_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
10/7/2024 10:12	46001	BERW_T1	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
10/7/2024 10:13	43304	WATS_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/7/2024 10:13	43301	WATS_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
10/7/2024 10:14	44801	EDAN_T2	102	115	13	0.35	0.36	0.01	-1.64	-1.59	0	0	0	0	0	0
10/7/2024 10:15	63802	HEMP_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/7/2024 10:15	63801	HEMP_T1	0	3	3	0	0.37	0.37	0.4	0.44	0	0	0	0	0	0
10/7/2024 10:15	63804	HEMP_T1	1	1	0	6.4	6	-0.4	0	0	0	0	0	0	0	0
10/7/2024 10:15	63803	HEMP_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/7/2024 10:16	25402	LAHA_T2	0	0	0	0	0	0	-0.48	-0.43	0	0	0	0	0	0
10/7/2024 10:16	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/7/2024 10:17	50107	HARR_T3	1	1	0	6.8	7.2	0.4	0	0	0	0	0	0	0	0
10/7/2024 10:17	50105	HARR_T3	7	7	0	5.17	6.1	0.93	0	0	0	0	0	0	0	0
10/7/2024 10:17	50103	HARR_T3	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
10/7/2024 10:18	45502	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 10:18	45501	DERR_T2	0	0	0	0	0	0	0.8	0.84	2	2	0	1800	1800	0
10/7/2024 10:19	13503	MCMI_T2	1	1	0	0.1	0.8	0.7	-0.01	-0.01	0	0	0	0	0	0
10/7/2024 10:20	45502	DERR_T2	0	2	2	0	0	0	0.07	0.39	0	0	0	0	0	0
10/7/2024 10:20	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 10:20	13302	ORVI_T2	1	1	0	0.4	0.1	-0.3	1.31	1.26	0	0	0	0	0	0
10/7/2024 10:20	45501	DERR_T2	0	0	0	0	0	0	0.8	0.84	2	2	0	1800	1800	0
10/7/2024 10:21	41902	REED_T1	0	0	0	0	0	0	0.71	0.8	0	0	0	0	0	0
10/7/2024 10:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 10:21	13503	MCMI_T2	1	1	0	0.1	0.8	0.7	-0.01	-0.01	0	0	0	0	0	0
10/7/2024 10:24	13704	SCHN_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
10/7/2024 10:27	10801	CHHI_T1	0	2	2	0	0.15	0.15	-1.31	-1.29	2	2	0	1500	1500	0
10/7/2024 10:28	15203	SFAR_T2	2	2	0	0.15	0.25	0.1	0	-2.35	0	0	0	0	0	0
10/7/2024 10:28	63802	GREE_T1	0	0	0	0	0	0	0.79	0.85	0	0	0	0	0	0
10/7/2024 10:28	21206	ECAR_T2	1	1	0	6.2	7.2	1	0.48	0.47	0	0	0	0	0	0
10/7/2024 10:28	21204	ECAR_T2	1	1	0	0	0.3	0.3	0	0	0	0	0	0	0	0
10/7/2024 10:28	21202	ECAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 10:29	61801	EELI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/7/2024 10:29	61803	EELI_T2	0	0	0	0	0	0	0.47	0.36	1	1	0	600	600	0
10/7/2024 10:31	21501	CEAV_T2	0	0	0	0	0	0	0.57	0.35	1	1	0	1200	1200	0
10/7/2024 10:31	63602	LETO_T1	0	0	0	0	0	0	-0.15	-0.11	0	0	0	0	0	0
10/7/2024 10:31	63601	LETO_T1	4	4	0	0.45	0.48	0.03	1.31	1.39	2	2	0	1800	1800	0
10/7/2024 10:31	61801	EELI_T2	2	2	0	0.15	0.2	0.05	-0.51	-0.5	1	1	0	600	600	0
10/7/2024 10:33	63601	LETO_T1	4	4	0	0.45	0.48	0.03	0	0	0	0	0	0	0	0
10/7/2024 10:33	63602	LETO_T1	0	0	0	0	0	0	-0.15	-0.11	0	0	0	0	0	0
10/7/2024 10:34	63601	LETO_T1	4	4	0	0.45	0.48	0.03	0.66	0.69	1	1	0	900	900	0
10/7/2024 10:34	55002	NEWP_T1	8	10	2	1.05	0.93	-0.12	-0.2	-0.18	0	0	0	0	0	0
10/7/2024 10:35	65503	MOJO_T2	0	0	0	0	0	0	-0.71	-0.7	1	1	0	900	900	0
10/7/2024 10:36	65604	QVIL_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
10/7/2024 10:36	65601	QVIL_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
10/7/2024 10:38	57401	SPAN_T1	12	18	6	0.47	0.52	0.05	-0.32	-0.12	0	0	0	0	0	0
10/7/2024 10:38	57403	SPAN_T1	25	52	27	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
10/7/2024 10:38	43301	WATS_T2	1	1	0	0.8	0.8	0	-0.83	-0.82	1	1	0	900	900	0
10/7/2024 10:38	15001	BLMO_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
10/7/2024 10:38	55002	NEWP_T1	8	10	2	1.05	0.93	-0.12	-0.18	-0.17	0	0	0	0	0	0
10/7/2024 10:39	66505	SMAN_T2	0	0	0	0	0	0	0.82	0.61	2	2	0	1100	1100	0
10/7/2024 10:39	55002	NEWP_T1	8	10	2	1.05	0.93	-0.12	-0.18	-0.17	0	0	0	0	0	0
10/7/2024 10:39	57402	SPAN_T2	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
10/7/2024 10:41	15001	BLMO_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
10/7/2024 10:43	57401	SPAN_T1	12	18	6	0.47	0.52	0.05	-0.32	-0.12	0	0	0	0	0	0
10/7/2024 10:43	57403	SPAN_T1	25	52	27	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
10/7/2024 10:45	21204	ECAR_T2	1	2	1	0.3	0.3	0	-0.7	-0.7	0	0	0	0	0	0
10/7/2024 10:45	21202	ECAR_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
10/7/2024 10:45	21206	ECAR_T2	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
10/7/2024 10:48	64305	LINC_T1	0	0	0	0	0	0	0.02	0.1	0	0	0	0	0	0
10/7/2024 10:51	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
10/7/2024 10:51	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.36	0	0	0	0	0	0
10/7/2024 10:51	67001	STHI_T2	1	2	1	0.1	0.1	0	0.26	0.31	0	0	0	0	0	0
10/7/2024 10:51	67002	STHI_T2	2	2	0	0.2	0.4	0.2	0.82	0.79	0	0	0	0	0	0
10/7/2024 10:52	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
10/7/2024 10:52	67002	STHI_T2	2	2	0	0.2	0.4	0.2	0.82	0.79	0	0	0	0	0	0
10/7/2024 10:52	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.36	0	0	0	0	0	0
10/7/2024 10:52	67001	STHI_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/7/2024 10:53	67002	STHI_T2	2	2	0	0.2	0.4	0.2	1.64	1.58	0	0	0	0	0	0
10/7/2024 10:53	67001	STHI_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/7/2024 10:55	67605	WARW_T1	12	5	-7	0.32	0.3	-0.02	-1.05	-1.03	0	0	0	0	0	0
10/7/2024 10:55	67603	WARW_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/7/2024 10:55	67002	STHI_T2	2	2	0	0.2	0.4	0.2	0.82	0.79	0	0	0	0	0	0
10/7/2024 10:55	57401	SPAN_T1	17	10	-7	0.52	0.5	-0.02	-0.12	-0.28	0	0	0	0	0	0
10/7/2024 10:55	20403	ASHF_T2	2	5	3	0.15	0.32	0.17	1.63	1.55	0	0	0	0	0	0
10/7/2024 10:55	57403	SPAN_T1	49	70	21	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
10/7/2024 10:55	67001	STHI_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/7/2024 10:56	67001	STHI_T2	1	2	1	0.1	0.1	0	0.13	0.16	0	0	0	0	0	0
10/7/2024 10:56	67605	WARW_T1	12	5	-7	0.32	0.3	-0.02	0	0	0	0	0	0	0	0
10/7/2024 10:56	67002	STHI_T2	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/7/2024 10:56	67603	WARW_T1	0	2	2	0	0.3	0.3	0.03	0.03	0	0	0	0	0	0
10/7/2024 10:56	20403	ASHF_T2	2	5	3	0.15	0.32	0.17	1.63	1.55	0	0	0	0	0	0
10/7/2024 11:00	53501	EVIL_T2	0	4	4	0	0.68	0.68	-0.03	-0.08	2	2	0	1200	1200	0
10/7/2024 11:00	50107	HARR_T3	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
10/7/2024 11:00	50103	HARR_T3	2	2	0	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
10/7/2024 11:00	50105	HARR_T3	6	6	0	5.68	5.7	0.02	0	0	0	0	0	0	0	0
10/7/2024 11:05	24202	PROV_T4	1	0	-1	4.3	0	-4.3	0	0	1	1	0	1200	1200	0
10/7/2024 11:06	55001	NEWP_T1	0	1	1	0	0.3	0.3	0	-0.03	0	0	0	0	0	0
10/7/2024 11:06	55002	NEWP_T1	8	9	1	0.64	0.88	0.24	0	0	0	0	0	0	0	0
10/7/2024 11:08	54601	SUMM_T2	10	5	-5	1.16	1.68	0.52	-1.74	-1.71	2	2	0	2100	2100	0
10/7/2024 11:09	54601	SUMM_T2	10	5	-5	1.16	1.68	0.52	-1.74	-1.71	2	2	0	2100	2100	0
10/7/2024 11:12	45902	AUBU_T1	0	0	0	0	0	0	0.76	0.76	1	1	0	600	600	0
10/7/2024 11:13	44801	EDAN_T2	65	85	20	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
10/7/2024 11:13	44802	EDAN_T2	0	0	0	0	0	0	-1.44	-1.22	0	0	0	0	0	0
10/7/2024 11:14	44801	EDAN_T2	65	85	20	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
10/7/2024 11:14	44802	EDAN_T2	0	0	0	0	0	0	-1.44	-1.22	0	0	0	0	0	0
10/7/2024 11:16	44802	EDAN_T2	0	3	3	0	0.17	0.17	-0.72	-0.61	0	0	0	0	0	0
10/7/2024 11:16	44801	EDAN_T2	85	165	80	0.34	0.66	0.32	0	0	0	0	0	0	0	0
10/7/2024 11:16	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/7/2024 11:16	28703	HAML_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 11:16	28701	HAML_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/7/2024 11:17	53501	EVIL_T2	2	4	2	0.45	0.98	0.53	-0.08	-0.11	2	2	0	1200	1200	0
10/7/2024 11:17	44801	EDAN_T2	85	165	80	0.34	0.66	0.32	0	0	0	0	0	0	0	0
10/7/2024 11:17	44802	EDAN_T2	0	3	3	0	0.17	0.17	-0.72	-0.61	0	0	0	0	0	0
10/7/2024 11:19	64305	LINC_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
10/7/2024 11:23	55002	NEWP_T1	5	12	7	0.88	0.83	-0.05	0	0	0	0	0	0	0	0
10/7/2024 11:23	55001	NEWP_T1	1	1	0	0.1	0.3	0.2	-0.04	-0.07	0	0	0	0	0	0
10/7/2024 11:24	67603	WARW_T1	2	2	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
10/7/2024 11:24	43802	SWIL_T1	0	0	0	0	0	0	-0.18	-0.19	1	1	0	600	600	0
10/7/2024 11:24	67605	WARW_T1	4	13	9	0.25	0.35	0.1	0	0	0	0	0	0	0	0
10/7/2024 11:24	43801	SWIL_T1	1	2	1	5.1	2.5	-2.6	0	0	0	0	0	0	0	0
10/7/2024 11:26	45902	AUBU_T1	0	0	0	0	0	0	0.76	0.82	1	1	0	600	600	0
10/7/2024 11:27	67605	WARW_T1	4	13	9	0.25	0.35	0.1	-1	-0.99	0	0	0	0	0	0
10/7/2024 11:27	67603	WARW_T1	2	2	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
10/7/2024 11:29	45902	AUBU_T1	0	0	0	0	0	0	0.76	0.82	1	1	0	600	600	0
10/7/2024 11:29	63501	HEID_TBK1-2	1	4	3	1.1	0.33	-0.77	0.38	0.42	1	1	0	900	900	0
10/7/2024 11:32	63501	HEID_TBK1-2	1	4	3	0.6	0.28	-0.32	0.38	0.42	1	1	0	900	900	0
10/7/2024 11:35	42701	AUGU_T1	4	5	1	0.53	0.46	-0.07	0	0	4	4	0	3600	3600	0
10/7/2024 11:36	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/7/2024 11:36	66502	SMAN_T2	1	0	-1	0.2	0	-0.2	0.38	0.29	0	0	0	0	0	0
10/7/2024 11:36	66501	SMAN_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
10/7/2024 11:37	42701	AUGU_T1	4	5	1	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
10/7/2024 11:38	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/7/2024 11:38	67002	STHI_T2	1	3	2	0.4	0.2	-0.2	0.8	0.79	0	0	0	0	0	0
10/7/2024 11:39	24603	VARD_T2	9	12	3	0.68	0.6	-0.08	0	0	0	0	0	0	0	0
10/7/2024 11:39	54602	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 11:39	42701	AUGU_T1	4	5	1	0.53	0.46	-0.07	0	0	4	4	0	3600	3600	0
10/7/2024 11:39	54601	SUMM_T2	2	4	2	3.95	0.23	-3.72	-1.7	-1.67	2	2	0	2100	2100	0
10/7/2024 11:39	24602	VARD_T2	14	29	15	0.24	0.18	-0.06	0	0	0	0	0	0	0	0
10/7/2024 11:40	28102	TWLA_T2	11	14	3	0.46	0.56	0.1	0.19	0.18	0	0	0	0	0	0
10/7/2024 11:40	42701	AUGU_T1	4	5	1	0.53	0.46	-0.07	0	0	2	2	0	1800	1800	0
10/7/2024 11:42	63804	HEMP_T1	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
10/7/2024 11:42	63801	HEMP_T1	3	2	-1	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
10/7/2024 11:42	63803	HEMP_T1	3	2	-1	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
10/7/2024 11:42	63802	HEMP_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
10/7/2024 11:43	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 11:43	20603	GRWO_T2	0	0	0	0	0	0	-0.59	-0.55	1	1	0	900	900	0
10/7/2024 11:44	45802	HEGI_T2	2	1	-1	0.25	0.3	0.05	1.3	1.43	0	0	0	0	0	0
10/7/2024 11:45	63801	HEMP_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/7/2024 11:45	63802	HEMP_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
10/7/2024 11:45	63803	HEMP_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/7/2024 11:45	63501	HEID_TBK1-2	4	3	-1	0.28	0.13	-0.15	0.42	0.35	1	1	0	900	900	0
10/7/2024 11:45	63804	HEMP_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
10/7/2024 11:46	45802	HEGI_T2	1	1	0	0.6	0.3	-0.3	1.3	1.43	0	0	0	0	0	0
10/7/2024 11:48	64202	KINZ_T1	3	3	0	0.33	0.67	0.34	0	0	0	0	0	0	0	0
10/7/2024 11:48	63501	HEID_TBK1-2	4	3	-1	0.28	0.13	-0.15	0.42	0.35	1	1	0	900	900	0
10/7/2024 11:48	64204	KINZ_T1	4	15	11	0.73	0.39	-0.34	0	0	0	0	0	0	0	0
10/7/2024 11:48	64203	KINZ_T1	0	0	0	0	0	0	0.86	0.87	2	2	0	900	900	0
10/7/2024 11:49	63501	HEID_TBK1-2	4	3	-1	0.28	0.13	-0.15	0.42	0.35	1	1	0	900	900	0
10/7/2024 11:49	45802	HEGI_T2	1	1	0	0.6	0.3	-0.3	1.3	1.43	0	0	0	0	0	0
10/7/2024 11:51	43801	SWIL_T1	2	2	0	2.5	2.45	-0.05	0	0	0	0	0	0	0	0
10/7/2024 11:51	43802	SWIL_T1	0	0	0	0	0	0	-0.19	-0.19	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/7/2024 11:52	42701	AUGU_T1	4	5	1	0.55	0.4	-0.15	0	0	2	2	0	1800	1800	0
10/7/2024 11:54	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 11:55	67002	STHI_T2	2	4	2	0.2	0.18	-0.02	0.79	0.83	0	0	0	0	0	0
10/7/2024 11:55	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/7/2024 11:56	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/7/2024 11:56	67002	STHI_T2	2	4	2	0.2	0.18	-0.02	1.58	1.66	0	0	0	0	0	0
10/7/2024 11:58	67603	WARW_T1	0	3	3	0	0.67	0.67	0	0	0	0	0	0	0	0
10/7/2024 11:58	67605	WARW_T1	13	16	3	0.34	0.43	0.09	-1	-0.99	0	0	0	0	0	0
10/7/2024 12:00	45802	HEGI_T2	1	3	2	0.3	0.15	-0.15	1.43	1.41	0	0	0	0	0	0
10/7/2024 12:02	45802	HEGI_T2	1	3	2	0.3	0.15	-0.15	1.43	1.41	0	0	0	0	0	0
10/7/2024 12:03	20201	JERM_T1	0	0	0	0	0	0	0.15	0.2	2	2	0	2400	2400	0
10/7/2024 12:07	42701	AUGU_T1	3	4	1	0.5	0.45	-0.05	0	0	4	4	0	3600	3600	0
10/7/2024 12:08	57403	SPAN_T1	15	19	4	0.23	0.25	0.02	0	0	0	0	0	0	0	0
10/7/2024 12:08	57401	SPAN_T1	4	20	16	0.45	0.53	0.08	-0.29	-0.25	0	0	0	0	0	0
10/7/2024 12:09	60801	BUCK_T1	0	1	1	0	0.2	0.2	-0.11	-0.12	0	0	0	0	0	0
10/7/2024 12:10	67503	WEWI_T2	1	1	0	8.7	8.8	0.1	0	0	0	0	0	0	0	0
10/7/2024 12:10	67502	WEWI_T2	0	3	3	0	0.57	0.57	-0.16	-0.17	0	0	0	0	0	0
10/7/2024 12:10	57403	SPAN_T1	15	19	4	0.23	0.25	0.02	0	0	0	0	0	0	0	0
10/7/2024 12:10	57401	SPAN_T1	4	20	16	0.45	0.53	0.08	-0.29	-0.25	0	0	0	0	0	0
10/7/2024 12:11	67502	WEWI_T2	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
10/7/2024 12:11	67503	WEWI_T2	1	1	0	8.7	8.8	0.1	0.05	-0.04	0	0	0	0	0	0
10/7/2024 12:12	57401	SPAN_T1	4	20	16	0.45	0.53	0.08	-0.58	-0.5	0	0	0	0	0	0
10/7/2024 12:12	57403	SPAN_T1	15	19	4	0.23	0.25	0.02	0	0	0	0	0	0	0	0
10/7/2024 12:13	57401	SPAN_T1	4	20	16	0.45	0.53	0.08	-0.29	-0.25	0	0	0	0	0	0
10/7/2024 12:13	57403	SPAN_T1	15	19	4	0.23	0.25	0.02	0	0	0	0	0	0	0	0
10/7/2024 12:18	27605	PIRI_T2	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
10/7/2024 12:21	45501	DERR_T2	1	1	0	0.2	0.4	0.2	1.54	1.5	4	4	0	3600	3600	0
10/7/2024 12:21	67203	TEHI_T1	0	1	1	0	0.5	0.5	2.6	2.55	3	3	0	2100	2100	0
10/7/2024 12:21	65501	MOJO_T1	0	0	0	0	0	0	-0.92	-0.89	1	1	0	900	900	0
10/7/2024 12:21	67201	TEHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/7/2024 12:21	45502	DERR_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/7/2024 12:22	67201	TEHI_T1	0	1	1	0	0.4	0.4	0.51	0.37	2	2	0	1500	1500	0
10/7/2024 12:22	67203	TEHI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/7/2024 12:23	15201	SFAR_T1	0	0	0	0	0	0	-21.27	-21.27	2	2	0	1800	1800	0
10/7/2024 12:32	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 12:32	58401	MORO_T1	0	1	1	0	0.1	0.1	-0.28	-0.27	0	0	0	0	0	0
10/7/2024 12:33	58401	MORO_T1	0	1	1	0	0.1	0.1	-0.28	-0.27	0	0	0	0	0	0
10/7/2024 12:33	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 12:34	15204	SFAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 12:34	15203	SFAR_T2	1	3	2	0.2	0.2	0	-1.16	-1.12	0	0	0	0	0	0
10/7/2024 12:37	40603	PIGR_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
10/7/2024 12:37	40602	PIGR_T1	1	1	0	2.2	1.2	-1	0	0	0	0	0	0	0	0
10/7/2024 12:37	40601	PIGR_T1	3	11	8	0.3	0.32	0.02	-0.27	-0.29	0	0	0	0	0	0
10/7/2024 12:38	65601	QVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/7/2024 12:38	65603	QVIL_T2	0	0	0	0	0	0	0.56	0.66	0	0	0	0	0	0
10/7/2024 12:39	40601	PIGR_T1	3	11	8	0.3	0.32	0.02	-0.27	-0.29	0	0	0	0	0	0
10/7/2024 12:39	40602	PIGR_T1	1	1	0	2.2	1.2	-1	0	0	0	0	0	0	0	0
10/7/2024 12:39	40603	PIGR_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
10/7/2024 12:40	40603	PIGR_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
10/7/2024 12:40	40601	PIGR_T1	3	11	8	0.3	0.32	0.02	0	0	0	0	0	0	0	0
10/7/2024 12:40	57401	SPAN_T1	20	22	2	0.52	0.46	-0.06	-0.9	-0.88	1	1	0	600	600	0
10/7/2024 12:40	40602	PIGR_T1	1	1	0	2.2	1.2	-1	0	0	0	0	0	0	0	0
10/7/2024 12:40	57403	SPAN_T1	11	30	19	0.18	0.28	0.1	0	0	0	0	0	0	0	0
10/7/2024 12:41	54505	ENOL_T2	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
10/7/2024 12:41	54502	ENOL_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
10/7/2024 12:41	54601	SUMM_T2	3	7	4	0.17	0.33	0.16	0	0	0	0	0	0	0	0
10/7/2024 12:41	54504	ENOL_T2	1	1	0	0.1	0.5	0.4	-1.12	-1.1	1	1	0	600	600	0
10/7/2024 12:41	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/7/2024 12:42	61501	EPET_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
10/7/2024 12:42	61504	EPET_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
10/7/2024 12:45	57403	SPAN_T1	13	31	18	0.24	0.27	0.03	0	0	0	0	0	0	0	0
10/7/2024 12:45	57401	SPAN_T1	17	23	6	0.38	0.47	0.09	-0.9	-0.88	1	1	0	600	600	0
10/7/2024 12:51	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 12:51	64802	MONE_T2	1	7	6	0.6	0.53	-0.07	0.28	0.23	0	0	0	0	0	0
10/7/2024 12:55	57401	SPAN_T1	17	23	6	0.38	0.47	0.09	-0.88	-0.89	1	1	0	600	600	0
10/7/2024 12:55	16102	BING_T2	2	5	3	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/7/2024 12:55	16103	BING_T2	1	0	-1	0.3	0	-0.3	-0.75	-0.75	2	2	0	1500	1500	0
10/7/2024 12:55	57403	SPAN_T1	13	31	18	0.24	0.27	0.03	0	0	0	0	0	0	0	0
10/7/2024 12:56	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/7/2024 12:56	54601	SUMM_T2	3	7	4	0.4	0.34	-0.06	-1.66	-1.73	2	2	0	2100	2100	0
10/7/2024 12:56	67605	WARW_T1	4	5	1	0.5	0.56	0.06	-0.99	-0.98	0	0	0	0	0	0
10/7/2024 12:56	67602	WARW_T2	0	0	0	0	0	0	3.07	2.95	2	2	0	600	600	0
10/7/2024 12:58	16102	BING_T2	2	5	3	0.3	0.5	0.2	0.04	0.09	1	1	0	1200	1200	0
10/7/2024 12:58	16103	BING_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/7/2024 12:58	16101	BING_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
10/7/2024 12:58	67602	WARW_T2	0	0	0	0	0	0	1.53	1.47	1	1	0	300	300	0
10/7/2024 13:00	41501	FAIR_T2	0	0	0	0	0	0	-0.82	-0.89	1	1	0	600	600	0
10/7/2024 13:00	54201	PENN_T1	4	4	0	1.43	1.4	-0.03	0	0	0	0	0	0	0	0
10/7/2024 13:00	54203	PENN_T1	18	19	1	1.14	1	-0.14	0	0	0	0	0	0	0	0
10/7/2024 13:05	65502	MOJO_T2	0	0	0	0	0	0	-0.5	-0.26	1	1	0	900	900	0
10/7/2024 13:05	65503	MOJO_T2	3	2	-1	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
10/7/2024 13:06	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 13:06	65503	MOJO_T2	3	2	-1	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
10/7/2024 13:07	67603	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/7/2024 13:07	67605	WARW_T1	4	4	0	0.63	0.58	-0.05	-0.98	-0.99	0	0	0	0	0	0
10/7/2024 13:15	45802	HEGI_T2	26	20	-6	0.47	0.29	-0.18	1.44	0.56	0	1	1	0	900	900
10/7/2024 13:17	45502	DERR_T2	2	2	0	0.65	0.4	-0.25	0.25	0.21	1	1	0	300	300	0
10/7/2024 13:17	45501	DERR_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/7/2024 13:22	14801	TREI_T2	0	1	1	0	1.3	1.3	0.38	0.39	0	0	0	0	0	0
10/7/2024 13:25	16302	ALPA_T2	0	0	0	0	0	0	0.97	0.94	0	0	0	0	0	0
10/7/2024 13:25	14802	TREI_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
10/7/2024 13:25	14801	TREI_T2	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
10/7/2024 13:28	16302	ALPA_T2	0	0	0	0	0	0	0.97	0.94	0	0	0	0	0	0
10/7/2024 13:30	14203	EALL_T1	0	0	0	0	0	0	-0.09	-0.15	1	1	0	1200	1200	0
10/7/2024 13:30	16302	ALPA_T2	0	0	0	0	0	0	1.94	1.88	0	0	0	0	0	0
10/7/2024 13:32	64101	REFR_T1	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
10/7/2024 13:32	44503	HAMI_T2	0	0	0	0	0	0	-1.16	-1.17	1	1	0	1200	1200	0
10/7/2024 13:32	44502	HAMI_T2	1	1	0	3	3.3	0.3	0	0	0	0	0	0	0	0
10/7/2024 13:33	65502	MOJO_T2	0	0	0	0	0	0	-0.42	-0.42	1	1	0	900	900	0
10/7/2024 13:33	65503	MOJO_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
10/7/2024 13:34	64101	REFR_T1	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
10/7/2024 13:35	64101	REFR_T1	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
10/7/2024 13:35	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 13:35	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/7/2024 13:35	66502	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/7/2024 13:36	64101	REFR_T1	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
10/7/2024 13:37	24201	PROV_T3	785	732	-53	0.31	0.29	-0.02	-1.44	-1.43	1	1	0	1200	1200	0
10/7/2024 13:37	24204	PROV_T3	29	18	-11	0.31	0.43	0.12	0	0	0	0	0	0	0	0
10/7/2024 13:37	66504	SMAN_T2	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
10/7/2024 13:37	66502	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/7/2024 13:37	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/7/2024 13:37	24205	PROV_T3	16	10	-6	0.16	0.17	0.01	0	0	0	0	0	0	0	0
10/7/2024 13:37	64101	REFR_T1	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
10/7/2024 13:41	10705	CATA_T2	0	0	0	0	0	0	-0.81	-0.78	1	1	0	900	900	0
10/7/2024 13:41	10702	CATA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/7/2024 13:43	60101	COCA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/7/2024 13:43	10705	CATA_T2	0	0	0	0	0	0	-0.81	-0.78	1	1	0	900	900	0
10/7/2024 13:43	10702	CATA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/7/2024 13:43	60102	COCA_T1	0	0	0	0	0	0	0	-0.1	2	2	0	1200	1200	0
10/7/2024 13:44	13101	NHAM_T1	0	0	0	0	0	0	-2.51	-2.17	2	2	0	2400	2400	0
10/7/2024 13:46	13502	MCMI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/7/2024 13:47	54504	ENOL_T2	1	1	0	0.2	0.6	0.4	-1.06	-1.08	1	1	0	600	600	0
10/7/2024 13:47	54505	ENOL_T2	2	3	1	0.7	0.73	0.03	0	0	0	0	0	0	0	0
10/7/2024 13:47	54502	ENOL_T2	2	4	2	0.45	0.63	0.18	0	0	0	0	0	0	0	0
10/7/2024 13:50	65503	MOJO_T2	2	1	-1	0.3	0.2	-0.1	-0.6	-0.53	1	1	0	900	900	0
10/7/2024 13:51	67505	WEWI_T1	0	0	0	0	0	0	0.06	0.06	1	1	0	900	900	0
10/7/2024 13:51	67501	WEWI_T1	2	1	-1	0.45	1	0.55	0	0	0	0	0	0	0	0
10/7/2024 13:52	14801	TREI_T2	1	1	0	0.6	1.3	0.7	0.39	0.41	0	0	0	0	0	0
10/7/2024 13:54	16301	ALPA_T1	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
10/7/2024 13:55	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.33	0	0	0	0	0	0
10/7/2024 13:55	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
10/7/2024 13:56	14801	TREI_T2	1	1	0	0.6	1.3	0.7	0	0	0	0	0	0	0	0
10/7/2024 13:56	14802	TREI_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
10/7/2024 13:56	46001	BERW_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
10/7/2024 13:58	54505	ENOL_T2	2	3	1	0.7	0.73	0.03	0	0	0	0	0	0	0	0
10/7/2024 13:58	54504	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
10/7/2024 13:58	16301	ALPA_T1	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
10/7/2024 13:58	54502	ENOL_T2	2	4	2	0.45	0.63	0.18	-1.97	-2	1	1	0	600	600	0
10/7/2024 13:59	54504	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
10/7/2024 13:59	54502	ENOL_T2	2	4	2	0.45	0.63	0.18	-1.97	-2	1	1	0	600	600	0
10/7/2024 13:59	54505	ENOL_T2	2	3	1	0.7	0.73	0.03	0	0	0	0	0	0	0	0
10/7/2024 14:02	44505	HAMI_T2	0	0	0	0	0	0	0.93	0.96	0	0	0	0	0	0
10/7/2024 14:02	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
10/7/2024 14:03	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
10/7/2024 14:03	54505	ENOL_T2	3	3	0	0.7	0.57	-0.13	0	0	0	0	0	0	0	0
10/7/2024 14:03	64704	LITI_T1	0	0	0	0	0	0	0.09	0.06	1	1	0	600	600	0
10/7/2024 14:03	54502	ENOL_T2	3	3	0	0.5	0.6	0.1	-1.97	-2	1	1	0	600	600	0
10/7/2024 14:03	54504	ENOL_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
10/7/2024 14:03	44505	HAMI_T2	0	0	0	0	0	0	0.93	0.96	0	0	0	0	0	0
10/7/2024 14:04	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 14:04	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
10/7/2024 14:04	64101	REFR_T1	5	1	-4	0.4	0.8	0.4	0	0	0	0	0	0	0	0
10/7/2024 14:04	64704	LITI_T1	0	0	0	0	0	0	0.09	0.06	1	1	0	600	600	0
10/7/2024 14:06	64101	REFR_T1	5	1	-4	0.4	0.8	0.4	0	0	0	0	0	0	0	0
10/7/2024 14:11	29301	DAPP_T1	1	1	0	8.5	8.5	0	0	0	1	1	0	600	600	0
10/7/2024 14:11	61504	EPET_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
10/7/2024 14:11	61501	EPET_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
10/7/2024 14:16	23202	HIRU_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
10/7/2024 14:16	23201	HIRU_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/7/2024 14:19	65205	PRIN_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
10/7/2024 14:20	65207	PRIN_T4	9	1	-8	0.16	0.7	0.54	0	0	2	2	0	1800	1800	0
10/7/2024 14:20	65206	PRIN_T4	1	1	0	3.5	0	-3.5	0	0	0	0	0	0	0	0
10/7/2024 14:22	40101	HUNT_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/7/2024 14:26	54201	PENN_T1	12	122	110	0.83	0.33	-0.5	0	0	0	0	0	0	0	0
10/7/2024 14:26	54203	PENN_T1	22	24	2	1.06	1.02	-0.04	0.46	0.47	0	0	0	0	0	0
10/7/2024 14:30	54203	PENN_T1	24	24	0	1.02	1	-0.02	0	0	0	0	0	0	0	0
10/7/2024 14:30	54201	PENN_T1	122	115	-7	0.33	0.38	0.05	0	0	0	0	0	0	0	0
10/7/2024 14:32	46101	MACI_T2	0	0	0	0	0	0	0.01	-0.01	1	1	0	1200	1200	0
10/7/2024 14:32	44201	POIN_T1	126	153	27	0.19	0.21	0.02	-3.44	-3.32	4	4	0	4200	4200	0
10/7/2024 14:33	44201	POIN_T1	126	153	27	0.19	0.21	0.02	-1.72	-1.66	2	2	0	2100	2100	0
10/7/2024 14:35	44201	POIN_T1	126	153	27	0.19	0.21	0.02	-3.44	-3.32	4	4	0	4200	4200	0
10/7/2024 14:36	57404	SPAN_T2	0	0	0	0	0	0	0.87	0.77	0	0	0	0	0	0
10/7/2024 14:37	44201	POIN_T1	126	153	27	0.19	0.21	0.02	-3.32	-3.52	4	4	0	4200	4200	0
10/7/2024 14:37	48302	ORWI_T2	2	2	0	0.85	0.9	0.05	-0.52	-0.51	0	0	0	0	0	0
10/7/2024 14:39	13905	SEID_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
10/7/2024 14:43	50624	CCTY_T2	2	2	0	6.1	6.15	0.05	0	0	0	0	0	0	0	0
10/7/2024 14:43	50623	CCTY_T2	5	5	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
10/7/2024 14:43	50625	CCTY_T2	4	5	1	3.35	2.64	-0.71	0	0	0	0	0	0	0	0
10/7/2024 14:43	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 14:47	46205	DANV_T2	0	0	0	0	0	0	-0.63	-0.65	1	1	0	1200	1200	0
10/7/2024 14:47	46203	DANV_T2	1	1	0	7.4	7.7	0.3	0	0	0	0	0	0	0	0
10/7/2024 14:50	65207	PRIN_T4	1	6	5	0.6	0.32	-0.28	0	0	0	0	0	0	0	0
10/7/2024 14:50	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 14:50	65206	PRIN_T4	1	3	2	4.6	0	-4.6	0	0	0	0	0	0	0	0
10/7/2024 14:51	57401	SPAN_T1	6	6	0	0.92	1.98	1.06	-0.54	-0.57	1	1	0	600	600	0
10/7/2024 14:51	57403	SPAN_T1	11	14	3	0.17	0.23	0.06	0	0	0	0	0	0	0	0
10/7/2024 14:52	58402	MORO_T1	0	0	0	0	0	0	-0.13	-0.11	2	2	0	1500	1500	0
10/7/2024 14:57	20401	ASHF_T2	3	3	0	0.63	0.23	-0.4	0	0	0	0	0	0	0	0
10/7/2024 14:57	20403	ASHF_T2	1	0	-1	0.4	0	-0.4	1.48	1.33	0	0	0	0	0	0
10/7/2024 14:58	54202	PENN_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
10/7/2024 14:58	54206	PENN_T2	0	0	0	0	0	0	0.38	0.33	0	0	0	0	0	0
10/7/2024 15:04	63501	HEID_TBK1-2	3	2	-1	0.53	0.85	0.32	0.45	0.39	1	1	0	900	900	0
10/7/2024 15:04	46101	MACI_T2	0	0	0	0	0	0	-0.03	-0.08	1	1	0	1200	1200	0
10/7/2024 15:08	67002	STHI_T2	0	0	0	0	0	0	0.85	0.8	0	0	0	0	0	0
10/7/2024 15:13	46004	BERW_T2	0	0	0	0	0	0	0.08	0.03	0	0	0	0	0	0
10/7/2024 15:19	58401	MORO_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
10/7/2024 15:23	58401	MORO_T1	0	0	0	0	0	0	-0.26	-0.32	0	0	0	0	0	0
10/7/2024 15:26	14801	TREI_T2	0	0	0	0	0	0	0.36	0.42	0	0	0	0	0	0
10/7/2024 15:27	40801	EXCH_T2	2	4	2	0.15	0.33	0.18	0	0	0	0	0	0	0	0
10/7/2024 15:27	40802	EXCH_T2	1	15	14	0.4	0.16	-0.24	-0.28	-0.27	0	0	0	0	0	0
10/7/2024 15:28	40802	EXCH_T2	1	15	14	0.4	0.16	-0.24	0	0	0	0	0	0	0	0
10/7/2024 15:28	40801	EXCH_T2	2	4	2	0.15	0.33	0.18	-0.43	-0.42	1	1	0	1200	1200	0
10/7/2024 15:29	40801	EXCH_T2	2	4	2	0.15	0.33	0.18	0	0	0	0	0	0	0	0
10/7/2024 15:29	40802	EXCH_T2	1	15	14	0.4	0.16	-0.24	-0.28	-0.27	0	0	0	0	0	0
10/7/2024 15:30	16302	ALPA_T2	0	0	0	0	0	0	0.99	0.93	0	0	0	0	0	0
10/7/2024 15:31	23203	HIRU_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
10/7/2024 15:31	47201	FAXO_T2	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
10/7/2024 15:32	54505	ENOL_T2	1	0	0	1	1.2	0.2	-1.26	-1.24	1	1	0	600	600	0
10/7/2024 15:32	40801	EXCH_T2	4	3	-1	0.28	0.37	0.09	0	0	0	0	0	0	0	0
10/7/2024 15:32	40802	EXCH_T2	3	15	12	0.37	0.15	-0.22	-0.28	-0.27	0	0	0	0	0	0
10/7/2024 15:32	23203	HIRU_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
10/7/2024 15:32	54502	ENOL_T2	1	4	3	0.9	0.33	-0.57	0	0	0	0	0	0	0	0
10/7/2024 15:33	14102	TRUM_T2	0	2	2	0	0.1	0.1	-0.19	-0.22	2	2	0	1500	1500	0
10/7/2024 15:33	23201	HIRU_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
10/7/2024 15:34	44202	POIN_T2	0	0	0	0	0	0	-0.53	-0.67	1	1	0	1200	1200	0
10/7/2024 15:34	23203	HIRU_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
10/7/2024 15:36	44202	POIN_T2	0	0	0	0	0	0	-0.67	-0.55	1	1	0	1200	1200	0
10/7/2024 15:36	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 15:36	67002	STHI_T2	0	0	0	0	0	0	0.78	0.81	0	0	0	0	0	0
10/7/2024 15:38	61101	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/7/2024 15:38	15204	SFAR_T2	0	0	0	0	0	0	0.15	0	0	0	0	0	0	0
10/7/2024 15:40	10703	CATA_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
10/7/2024 15:40	10702	CATA_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
10/7/2024 15:42	63801	HEMP_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/7/2024 15:42	63804	HEMP_T1	1	1	0	6	5.6	-0.4	1.18	1.12	0	0	0	0	0	0
10/7/2024 15:44	52501	PROG_T1	0	0	0	0	0	0	-0.06	-0.13	1	1	0	300	300	0
10/7/2024 15:45	63803	HEMP_T1	0	0	0	0	0	0	0.31	0.27	0	0	0	0	0	0
10/7/2024 15:45	63804	HEMP_T1	1	1	0	5.9	5.6	-0.3	0	0	0	0	0	0	0	0
10/7/2024 15:50	51204	MTON_T2	0	0	0	0	0	0	-0.41	-0.39	1	1	0	600	600	0
10/7/2024 15:51	66901	SHIL_T2	0	2	2	0	0.1	0.1	-2.97	-3.16	2	2	0	2400	2400	0
10/7/2024 15:51	66903	SHIL_T2	0	1	1	0	0.2	0.2	-1.48	-1.45	0	0	0	0	0	0
10/7/2024 15:51	66902	SHIL_T2	0	0	0	0	0	0	-0.78	-0.85	0	0	0	0	0	0
10/7/2024 15:51	14502	SCHO_T1	1	1	0	1.1	0.8	-0.3	0.39	0.47	0	0	0	0	0	0
10/7/2024 15:52	44702	MUNC_T2	115	100	-15	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
10/7/2024 15:52	44701	MUNC_T2	134	48	-86	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/7/2024 15:52	44703	MUNC_T2	2	2	0	1.5	1.5	0	0	0	0	0	0	0	0	0
10/7/2024 15:53	44701	MUNC_T2	134	48	-86	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/7/2024 15:53	66903	SHIL_T2	0	1	1	0	0.2	0.2	-1.48	-1.45	0	0	0	0	0	0
10/7/2024 15:53	66901	SHIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 15:53	44702	MUNC_T2	115	100	-15	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
10/7/2024 15:53	44703	MUNC_T2	2	2	0	1.5	1.5	0	0.82	0.76	0	0	0	0	0	0
10/7/2024 15:54	15203	SFAR_T2	0	0	0	0	0	0	0	-1.18	0	0	0	0	0	0
10/7/2024 15:54	66901	SHIL_T2	0	2	2	0	0.1	0.1	-1.49	-1.58	1	1	0	1200	1200	0
10/7/2024 15:54	44301	BEAV_T2	0	0	0	0	0	0	0.36	0.29	1	1	0	600	600	0
10/7/2024 15:54	66903	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/7/2024 15:55	40602	PIGR_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
10/7/2024 15:55	10602	BLGL_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
10/7/2024 15:55	40601	PIGR_T1	13	139	126	0.15	0.37	0.22	0	0	0	0	0	0	0	0
10/7/2024 15:56	63804	HEMP_T1	1	1	0	5.9	5.6	-0.3	0	0	0	0	0	0	0	0
10/7/2024 15:56	63801	HEMP_T1	0	0	0	0	0	0	0.12	0.06	0	0	0	0	0	0
10/7/2024 15:56	15203	SFAR_T2	0	0	0	0	0	0	0	-1.18	0	0	0	0	0	0
10/7/2024 15:56	44301	BEAV_T2	0	0	0	0	0	0	0.36	0.29	1	1	0	600	600	0
10/7/2024 15:57	15203	SFAR_T2	0	0	0	0	0	0	0	-1.18	0	0	0	0	0	0
10/7/2024 15:57	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 15:58	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 15:58	10805	CHHI_T2	1	1	0	8	7.4	-0.6	-1.17	-1.26	1	1	0	600	600	0
10/7/2024 15:59	49803	UNIV_T1	1	1	0	5.5	5.4	-0.1	-0.86	0	0	0	0	0	0	0
10/7/2024 15:59	49804	UNIV_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
10/7/2024 16:01	46602	LACR_T1	13	5	-8	0.11	0.1	-0.01	-0.99	-0.96	0	0	0	0	0	0
10/7/2024 16:05	66903	SHIL_T2	1	0	-1	0.2	0	-0.2	-1.48	-1.45	0	0	0	0	0	0
10/7/2024 16:05	66901	SHIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/7/2024 16:06	65001	NEFF_T2	0	0	0	0	0	0	-0.56	-0.57	1	1	0	1200	1200	0
10/7/2024 16:07	67402	WAKE_T2	0	0	0	0	0	0	-0.25	-0.3	1	1	0	600	600	0
10/7/2024 16:08	44203	POIN_T2	0	0	0	0	0	0	-0.48	-0.42	2	2	0	2100	2100	0
10/7/2024 16:08	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 16:09	54602	SUMM_T2	4	1	-3	0.13	0.1	-0.03	-2.25	-2.25	1	1	0	600	600	0
10/7/2024 16:09	54601	SUMM_T2	13	12	-1	0.69	0.68	-0.01	0	0	0	0	0	0	0	0
10/7/2024 16:10	67503	WEWI_T2	1	1	0	8.5	8.6	0.1	-0.11	-0.05	0	0	0	0	0	0
10/7/2024 16:10	67401	WAKE_T2	0	0	0	0	0	0	-0.92	-0.92	0	0	0	0	0	0
10/7/2024 16:10	66903	SHIL_T2	1	0	-1	0.2	0	-0.2	-1.45	-1.44	0	0	0	0	0	0
10/7/2024 16:10	66901	SHIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/7/2024 16:10	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 16:11	67503	WEWI_T2	1	1	0	8.5	8.6	0.1	0	0	0	0	0	0	0	0
10/7/2024 16:11	67502	WEWI_T2	0	1	1	0	0.1	0.1	-0.33	-0.24	0	0	0	0	0	0
10/7/2024 16:12	67503	WEWI_T2	1	1	0	8.5	8.6	0.1	-0.22	-0.1	0	0	0	0	0	0
10/7/2024 16:12	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 16:12	67402	WAKE_T2	0	0	0	0	0	0	-0.5	-0.6	2	2	0	1200	1200	0
10/7/2024 16:18	26704	HEML_T2	0	36	36	0	0.11	0.11	-0.63	-0.81	1	1	0	1200	1200	0
10/7/2024 16:18	63501	HEID_TBK1-2	2	2	0	1.3	0.9	-0.4	-0.15	-0.23	1	1	0	900	900	0
10/7/2024 16:18	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 16:20	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 16:30	67002	STHI_T2	1	0	-1	0.1	0	-0.1	0.8	0.79	0	0	0	0	0	0
10/7/2024 16:30	20603	GRWO_T2	0	1	1	0	0.2	0.2	0.35	0.35	0	0	0	0	0	0
10/7/2024 16:30	67001	STHI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/7/2024 16:33	54502	ENOL_T2	2	1	-1	0.5	0.7	0.2	-2	-2.04	1	1	0	600	600	0
10/7/2024 16:33	54505	ENOL_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
10/7/2024 16:35	63501	HEID_TBK1-2	2	1	-1	0.9	0.5	-0.4	-0.23	0.65	1	0	-1	900	0	-900
10/7/2024 16:36	65003	NEFF_T2	0	4	4	0	0.23	0.23	-1.84	-1.82	2	2	0	1800	1800	0
10/7/2024 16:38	15201	SFAR_T1	0	0	0	0	0	0	-0.23	-0.36	2	2	0	1800	1800	0
10/7/2024 16:38	57201	ROSS_T1	21	84	63	0.17	0.23	0.06	-1.06	-1.08	0	0	0	0	0	0
10/7/2024 16:38	57203	ROSS_T1	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
10/7/2024 16:39	57201	ROSS_T1	21	84	63	0.17	0.23	0.06	0	0	0	0	0	0	0	0
10/7/2024 16:39	57203	ROSS_T1	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
10/7/2024 16:41	57201	ROSS_T1	21	84	63	0.17	0.23	0.06	-1.06	-1.08	0	0	0	0	0	0
10/7/2024 16:41	57203	ROSS_T1	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
10/7/2024 16:42	61504	EPET_T2	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
10/7/2024 16:42	67002	STHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/7/2024 16:42	67001	STHI_T2	1	1	0	0.1	0.3	0.2	0.14	0.14	0	0	0	0	0	0
10/7/2024 16:42	57205	ROSS_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
10/7/2024 16:42	61501	EPET_T2	1	1	0	4.9	4.7	-0.2	0	0	0	0	0	0	0	0
10/7/2024 16:42	57203	ROSS_T1	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
10/7/2024 16:42	57201	ROSS_T1	21	84	63	0.17	0.23	0.06	0	0	0	0	0	0	0	0
10/7/2024 16:43	66503	SMAN_T2	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
10/7/2024 16:46	61501	EPET_T2	1	1	0	4.7	4.7	0	0	0	0	0	0	0	0	0
10/7/2024 16:46	61504	EPET_T2	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
10/7/2024 16:47	64902	MILL_T2	0	0	0	0	0	0	-0.54	-0.52	1	1	0	900	900	0
10/7/2024 16:47	61504	EPET_T2	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
10/7/2024 16:47	61501	EPET_T2	1	1	0	4.7	4.7	0	0	0	0	0	0	0	0	0
10/7/2024 16:48	15601	NSTR_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 16:48	15603	NSTR_T2	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
10/7/2024 16:49	64902	MILL_T2	0	0	0	0	0	0	-0.54	-0.52	1	1	0	900	900	0
10/7/2024 16:50	64902	MILL_T2	0	0	0	0	0	0	-0.54	-0.52	1	1	0	900	900	0
10/7/2024 16:50	64903	MILL_T2	0	0	0	0	0	0	0.35	0.3	0	0	0	0	0	0
10/7/2024 16:51	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 16:51	64902	MILL_T2	0	0	0	0	0	0	-0.52	-0.54	1	1	0	900	900	0
10/7/2024 16:53	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 16:55	67502	WEWI_T2	33	112	79	0.14	0.18	0.04	0	0	0	0	0	0	0	0
10/7/2024 16:55	67501	WEWI_T1	0	0	0	0	0	0	-1.69	-1.69	2	2	0	1200	1200	0
10/7/2024 16:55	67001	STHI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/7/2024 16:55	67503	WEWI_T2	1	1	0	9	9	0	-0.18	0.02	0	0	0	0	0	0
10/7/2024 16:55	67002	STHI_T2	0	0	0	0	0	0	0.8	0.75	0	0	0	0	0	0
10/7/2024 16:56	45303	WBER_T2	2	6	4	0.1	0.18	0.08	0	0	0	0	0	0	0	0
10/7/2024 16:56	45302	WBER_T2	0	0	0	0	0	0	0.95	0.91	0	0	0	0	0	0
10/7/2024 16:56	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 16:57	67503	WEWI_T2	1	1	0	9	9	0	0	0	0	0	0	0	0	0
10/7/2024 16:57	15202	SFAR_T1	0	0	0	0	0	0	-0.1	-0.13	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/7/2024 16:57	67502	WEWI_T2	33	112	79	0.14	0.18	0.04	-0.36	-0.38	0	0	0	0	0	0
10/7/2024 16:57	67501	WEWI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 16:58	10801	CHHI_T1	0	0	0	0	0	0	-0.77	-0.76	1	1	0	900	900	0
10/7/2024 16:58	15202	SFAR_T1	0	0	0	0	0	0	-0.21	-0.27	2	2	0	2400	2400	0
10/7/2024 16:58	51204	MTON_T2	0	0	0	0	0	0	-0.41	-0.43	1	1	0	600	600	0
10/7/2024 16:59	67502	WEWI_T2	33	112	79	0.14	0.18	0.04	-0.36	-0.38	0	0	0	0	0	0
10/7/2024 16:59	67501	WEWI_T1	0	0	0	0	0	0	-0.84	-0.84	1	1	0	600	600	0
10/7/2024 16:59	67503	WEWI_T2	1	1	0	9	9	0	-0.18	0.02	0	0	0	0	0	0
10/7/2024 16:59	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 17:10	13901	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 17:19	46506	LOHA_T1	3	3	0	5.4	5.07	-0.33	0	0	0	0	0	0	0	0
10/7/2024 17:19	46503	LOHA_T1	0	0	0	0	0	0	-1.26	-1.24	0	0	0	0	0	0
10/7/2024 17:24	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/7/2024 17:24	65205	PRIN_T1	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
10/7/2024 17:29	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 17:32	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 17:33	41205	KENM_T2	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
10/7/2024 17:33	41202	KENM_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
10/7/2024 17:44	67904	WNHO_T1	0	0	0	0	0	0	-1.11	-1.1	1	1	0	1200	1200	0
10/7/2024 17:54	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/7/2024 17:54	15203	SFAR_T2	9	39	30	0.13	0.13	0	0	0	0	0	0	0	0	0
10/7/2024 17:54	61102	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/7/2024 17:54	15204	SFAR_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
10/7/2024 18:29	57403	SPAN_T1	33	32	-1	0.31	0.31	0	0	0	0	0	0	0	0	0
10/7/2024 18:29	57401	SPAN_T1	2	2	0	0.65	0.8	0.15	-0.19	-0.19	0	0	0	0	0	0
10/7/2024 19:16	28102	TWLA_T2	16	18	2	0.24	0.33	0.09	0.22	0.22	0	0	0	0	0	0
10/7/2024 20:14	61801	EELI_T2	1	1	0	0.2	0.1	-0.1	-0.8	-0.83	1	1	0	600	600	0
10/7/2024 20:17	15203	SFAR_T2	2	37	35	0.1	0.15	0.05	-1.22	-1.3	0	0	0	0	0	0
10/7/2024 20:20	64602	LEOL_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
10/7/2024 20:24	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:24	66505	SMAN_T2	1	3	2	0.1	0.53	0.43	0	0	0	0	0	0	0	0
10/7/2024 20:25	10703	CATA_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
10/7/2024 20:26	10805	CHHI_T2	1	1	0	7.8	7.2	-0.6	-0.91	-1.07	1	1	0	600	600	0
10/7/2024 20:27	28703	HAML_T2	2	3	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
10/7/2024 20:27	17002	RIRO_T2	36	146	110	0.12	0.17	0.05	0.34	0.43	0	0	0	0	0	0
10/7/2024 20:27	28702	HAML_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:27	28704	HAML_T2	1	16	15	0.1	0.13	0.03	-0.01	-0.01	0	0	0	0	0	0
10/7/2024 20:27	23201	HIRU_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
10/7/2024 20:27	64704	LITI_T1	0	0	0	0	0	0	0.3	0.31	1	1	0	600	600	0
10/7/2024 20:28	10602	BLGL_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
10/7/2024 20:28	14801	TREI_T2	0	1	1	0	0.1	0.1	0.45	0.41	0	0	0	0	0	0
10/7/2024 20:29	23202	HIRU_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
10/7/2024 20:29	22002	BOHE_T1	17	36	19	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
10/7/2024 20:29	22001	BOHE_T1	335	410	75	0.29	0.37	0.08	0.22	0.23	0	0	0	0	0	0
10/7/2024 20:29	65503	MOJO_T2	69	33	-36	0.16	0.11	-0.05	-0.27	-0.39	0	0	0	0	0	0
10/7/2024 20:29	22003	BOHE_T1	392	471	79	0.79	0.79	0	0	0	0	0	0	0	0	0
10/7/2024 20:29	65502	MOJO_T2	242	165	-77	0.22	0.13	-0.09	0	0	0	0	0	0	0	0
10/7/2024 20:29	16101	BING_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
10/7/2024 20:29	14203	EALL_T1	0	0	0	0	0	0	-0.5	0.81	1	0	-1	1200	0	-1200
10/7/2024 20:30	14802	TREI_T2	0	1	1	0	0.1	0.1	0.41	0.38	0	0	0	0	0	0
10/7/2024 20:30	64903	MILL_T2	0	3	3	0	0.1	0.1	0.25	0.26	0	0	0	0	0	0
10/7/2024 20:30	26704	HEMI_T2	89	85	-4	0.38	0.37	-0.01	-0.88	-0.9	1	1	0	1200	1200	0
10/7/2024 20:30	44203	POIN_T2	0	0	0	0	0	0	-0.82	-0.64	2	2	0	2100	2100	0
10/7/2024 20:30	67001	STHI_T2	6	357	351	0.17	0.18	0.01	0	0	0	0	0	0	0	0
10/7/2024 20:30	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:30	67002	STHI_T2	0	28	28	0	0.15	0.15	0.63	0.63	0	0	0	0	0	0
10/7/2024 20:30	14801	TREI_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/7/2024 20:30	45902	AUBU_T1	0	0	0	0	0	0	0.27	0.27	1	1	0	600	600	0
10/7/2024 20:31	67001	STHI_T2	6	357	351	0.17	0.18	0.01	0	0	0	0	0	0	0	0
10/7/2024 20:31	13905	SEID_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
10/7/2024 20:31	67002	STHI_T2	0	28	28	0	0.15	0.15	0.63	0.63	0	0	0	0	0	0
10/7/2024 20:31	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
10/7/2024 20:31	15703	TANN_T2	1	1	0	5.4	5.1	-0.3	0	0	0	0	0	0	0	0
10/7/2024 20:32	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
10/7/2024 20:32	54501	ENOL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/7/2024 20:32	10705	CATA_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
10/7/2024 20:32	67501	WEWI_T1	0	2	2	0	0.1	0.1	-1.22	-1.2	1	1	0	600	600	0
10/7/2024 20:32	44201	POIN_T1	8	138	130	0.1	0.18	0.08	-1.81	-1.93	2	2	0	2100	2100	0
10/7/2024 20:32	63601	LETO_T1	0	2	2	0	0.35	0.35	0.66	0.69	1	1	0	900	900	0
10/7/2024 20:32	45902	AUBU_T1	0	0	0	0	0	0	0.27	0.27	1	1	0	600	600	0
10/7/2024 20:32	54502	ENOL_T2	1	1	0	0.5	0.9	0.4	-2.03	-1.96	1	1	0	600	600	0
10/7/2024 20:32	66903	SHIL_T2	0	37	37	0	0.11	0.11	-1.6	-1.59	0	0	0	0	0	0
10/7/2024 20:32	63602	LETO_T1	0	125	125	0	0.24	0.24	0	0	0	0	0	0	0	0
10/7/2024 20:32	66901	SHIL_T2	179	531	352	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/7/2024 20:32	66902	SHIL_T2	0	71	71	0	0.12	0.12	0	0	0	0	0	0	0	0
10/7/2024 20:33	65502	MOJO_T2	0	263	263	0	0.2	0.2	-0.78	-0.87	0	0	0	0	0	0
10/7/2024 20:33	67605	WARW_T1	14	15	1	0.54	0.51	-0.03	0	0	0	0	0	0	0	0
10/7/2024 20:33	14801	TREI_T2	1	2	1	0.1	0.15	0.05	0.45	0.41	0	0	0	0	0	0
10/7/2024 20:33	65503	MOJO_T2	0	93	93	0	0.15	0.15	0	0	0	0	0	0	0	0
10/7/2024 20:33	67502	WEWI_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:33	67001	STHI_T2	6	357	351	0.17	0.18	0.01	0	0	0	0	0	0	0	0
10/7/2024 20:33	67503	WEWI_T2	1	1	0	7.2	8.6	1.4	-0.14	-0.21	0	0	0	0	0	0
10/7/2024 20:33	15202	SFAR_T1	0	0	0	0	0	0	-0.28	-0.33	1	1	0	1200	1200	0
10/7/2024 20:33	67002	STHI_T2	0	28	28	0	0.15	0.15	0.63	0.63	0	0	0	0	0	0
10/7/2024 20:33	24202	PROV_T4	1	1	0	1	0.8	-0.2	0	0	1	1	0	1200	1200	0
10/7/2024 20:33	15203	SFAR_T2	16	89	73	0.12	0.16	0.04	-1.3	-1.26	0	0	0	0	0	0
10/7/2024 20:33	67603	WARW_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
10/7/2024 20:33	65206	PRIN_T4	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:33	65207	PRIN_T4	2	137	135	0.45	0.18	-0.27	0	0	2	2	0	1800	1800	0
10/7/2024 20:33	14802	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:33	15201	SFAR_T1	0	0	0	0	0	0	-0.01	0.03	1	1	0	1200	1200	0
10/7/2024 20:34	20603	GRWO_T2	2	10	8	0.1	0.11	0.01	0.33	0.3	0	0	0	0	0	0
10/7/2024 20:34	20601	GRWO_T2	4	35	31	0.1	0.16	0.06	0	0	0	0	0	0	0	0
10/7/2024 20:34	66903	SHIL_T2	0	37	37	0	0.11	0.11	0	0	0	0	0	0	0	0
10/7/2024 20:34	15601	NSTR_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
10/7/2024 20:34	63602	LETO_T1	0	125	125	0	0.24	0.24	0	0	0	0	0	0	0	0
10/7/2024 20:34	16302	ALPA_T2	0	0	0	0	0	0	0.7	0.65	0	0	0	0	0	0
10/7/2024 20:34	66901	SHIL_T2	179	531	352	0.2	0.23	0.03	-1.72	-1.77	1	1	0	1200	1200	0
10/7/2024 20:34	65001	NEFF_T2	0	79	79	0	0.14	0.14	-0.95	-0.93	1	1	0	1200	1200	0
10/7/2024 20:34	15603	NSTR_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
10/7/2024 20:34	63501	HEID_TBK1-2	1	32	31	0.9	0.23	-0.67	0.49	0.41	0	0	0	0	0	0
10/7/2024 20:34	67002	STHI_T2	0	28	28	0	0.15	0.15	1.26	1.26	0	0	0	0	0	0
10/7/2024 20:34	44201	POIN_T1	8	138	130	0.1	0.18	0.08	-1.81	-1.93	2	2	0	2100	2100	0
10/7/2024 20:34	65003	NEFF_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
10/7/2024 20:34	66902	SHIL_T2	0	71	71	0	0.12	0.12	0	0	0	0	0	0	0	0
10/7/2024 20:34	13901	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:34	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/7/2024 20:34	63601	LETO_T1	0	2	2	0	0.35	0.35	1.32	1.37	2	2	0	1800	1800	0
10/7/2024 20:34	67402	WAKE_T2	0	0	0	0	0	0	-0.43	-0.42	1	1	0	600	600	0
10/7/2024 20:34	67001	STHI_T2	6	357	351	0.17	0.18	0.01	0.1	0.11	0	0	0	0	0	0
10/7/2024 20:35	57401	SPAN_T1	23	292	269	0.22	0.33	0.11	-0.86	-0.88	1	1	0	600	600	0
10/7/2024 20:35	44801	EDAN_T2	182	249	67	0.53	0.58	0.05	0	0	0	0	0	0	0	0
10/7/2024 20:35	63501	HEID_TBK1-2	1	32	31	0.9	0.23	-0.67	0.49	0.41	0	0	0	0	0	0
10/7/2024 20:35	67501	WEWI_T1	0	2	2	0	0.1	0.1	-1.22	-1.2	1	1	0	600	600	0
10/7/2024 20:35	63602	LETO_T1	0	125	125	0	0.24	0.24	-0.4	-0.36	0	0	0	0	0	0
10/7/2024 20:35	16102	BING_T2	0	0	0	0	0	0	-0.36	-0.37	1	1	0	1200	1200	0
10/7/2024 20:35	54203	PENN_T1	107	74	-33	0.38	0.46	0.08	0	0	0	0	0	0	0	0
10/7/2024 20:35	54205	PENN_T1	24	28	4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/7/2024 20:35	67001	STHI_T2	6	357	351	0.17	0.18	0.01	0	0	0	0	0	0	0	0
10/7/2024 20:35	66903	SHIL_T2	0	37	37	0	0.11	0.11	0	0	0	0	0	0	0	0
10/7/2024 20:35	44802	EDAN_T2	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
10/7/2024 20:35	66901	SHIL_T2	179	531	352	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/7/2024 20:35	15202	SFAR_T1	0	0	0	0	0	0	-0.28	-0.33	1	1	0	1200	1200	0
10/7/2024 20:35	66902	SHIL_T2	0	71	71	0	0.12	0.12	-0.89	-0.91	0	0	0	0	0	0
10/7/2024 20:35	63601	LETO_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/7/2024 20:35	54201	PENN_T1	216	127	-89	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
10/7/2024 20:35	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:35	57403	SPAN_T1	26	385	359	0.3	0.43	0.13	0	0	0	0	0	0	0	0
10/7/2024 20:35	14802	TREI_T2	0	1	1	0	0.1	0.1	0.41	0.38	0	0	0	0	0	0
10/7/2024 20:35	16302	ALPA_T2	0	0	0	0	0	0	0.7	0.65	0	0	0	0	0	0
10/7/2024 20:35	67002	STHI_T2	0	28	28	0	0.15	0.15	0.63	0.63	0	0	0	0	0	0
10/7/2024 20:35	64101	REFR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/7/2024 20:35	14801	TREI_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/7/2024 20:35	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/7/2024 20:36	14801	TREI_T2	1	2	1	0.1	0.15	0.05	0.45	0.41	0	0	0	0	0	0
10/7/2024 20:36	43302	WATS_T2	4	4	0	0.68	0.5	-0.18	0	0	0	0	0	0	0	0
10/7/2024 20:36	16302	ALPA_T2	0	0	0	0	0	0	0.7	0.65	0	0	0	0	0	0
10/7/2024 20:36	64101	REFR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/7/2024 20:36	50103	HARR_T3	2	2	0	0.95	0.85	-0.1	0	0	0	0	0	0	0	0
10/7/2024 20:36	15203	SFAR_T2	16	89	73	0.12	0.16	0.04	-1.3	-1.26	0	0	0	0	0	0
10/7/2024 20:36	50201	HARR_T3	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/7/2024 20:36	45303	WBER_T2	8	0	-8	0.45	0	-0.45	0	0	0	0	0	0	0	0
10/7/2024 20:36	67503	WEWI_T2	1	1	0	7.2	8.6	1.4	-0.21	-0.12	0	0	0	0	0	0
10/7/2024 20:36	67001	STHI_T2	6	357	351	0.17	0.18	0.01	0.11	0.09	0	0	0	0	0	0
10/7/2024 20:36	43301	WATS_T2	1	1	0	0.2	0.3	0.1	0.15	0.15	0	0	0	0	0	0
10/7/2024 20:36	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
10/7/2024 20:36	25402	LAHA_T2	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
10/7/2024 20:36	64903	MILL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:36	50102	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/7/2024 20:36	15202	SFAR_T1	0	0	0	0	0	0	-0.28	-0.33	1	1	0	1200	1200	0
10/7/2024 20:36	66902	SHIL_T2	0	71	71	0	0.12	0.12	0	0	0	0	0	0	0	0
10/7/2024 20:36	66903	SHIL_T2	0	37	37	0	0.11	0.11	-3.18	-3.18	0	0	0	0	0	0
10/7/2024 20:36	44802	EDAN_T2	0	0	0	0	0	0	-0.86	-0.9	0	0	0	0	0	0
10/7/2024 20:36	64902	MILL_T2	0	0	0	0	0	0	-0.7	-0.66	1	1	0	900	900	0
10/7/2024 20:36	44502	HAMI_T2	1	1	0	3.1	3.4	0.3	0	0	0	0	0	0	0	0
10/7/2024 20:36	44801	EDAN_T2	182	249	67	0.53	0.58	0.05	0	0	0	0	0	0	0	0
10/7/2024 20:36	50107	HARR_T3	1	1	0	6.4	6.7	0.3	0	0	0	0	0	0	0	0
10/7/2024 20:36	67002	STHI_T2	0	28	28	0	0.15	0.15	1.26	1.18	0	0	0	0	0	0
10/7/2024 20:36	45302	WBER_T2	0	0	0	0	0	0	0.79	0.71	0	0	0	0	0	0
10/7/2024 20:36	14802	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:36	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:36	10801	CHHI_T1	0	0	0	0	0	0	-1.39	-1.38	2	2	0	1500	1500	0
10/7/2024 20:36	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/7/2024 20:36	50105	HARR_T3	6	6	0	5.27	5.78	0.51	0	0	0	0	0	0	0	0
10/7/2024 20:36	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:36	66901	SHIL_T2	179	531	352	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/7/2024 20:36	67502	WEWI_T2	0	4	4	0	0.1	0.1	-0.43	-0.45	0	0	0	0	0	0
10/7/2024 20:36	50202	HARR_T3	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:36	44505	HAMI_T2	0	0	0	0	0	0	0.64	0.67	0	0	0	0	0	0
10/7/2024 20:37	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:37	57403	SPAN_T1	26	385	359	0.3	0.43	0.13	0	0	0	0	0	0	0	0
10/7/2024 20:37	40802	EXCH_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
10/7/2024 20:37	16103	BING_T2	0	0	0	0	0	0	-0.94	-0.92	2	2	0	1500	1500	0
10/7/2024 20:37	40801	EXCH_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/7/2024 20:37	67002	STHI_T2	0	28	28	0	0.15	0.15	0.63	0.59	0	0	0	0	0	0
10/7/2024 20:37	64903	MILL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:37	57401	SPAN_T1	23	292	269	0.22	0.33	0.11	-0.88	-0.83	1	1	0	600	600	0
10/7/2024 20:37	66505	SMAN_T2	1	3	2	0.1	0.83	0.73	0	0	0	0	0	0	0	0
10/7/2024 20:37	67502	WEWI_T2	0	4	4	0	0.1	0.1	-0.43	-0.45	0	0	0	0	0	0
10/7/2024 20:37	46001	BERW_T1	0	0	0	0	0	0	-0.46	0.46	0	0	0	0	0	0
10/7/2024 20:37	15203	SFAR_T2	16	89	73	0.12	0.16	0.04	-1.26	-1.3	0	0	0	0	0	0
10/7/2024 20:37	65207	PRIN_T4	2	137	135	0.45	0.18	-0.27	0	0	0	0	0	0	0	0
10/7/2024 20:37	64902	MILL_T2	0	0	0	0	0	0	-1.4	-1.31	2	2	0	1800	1800	0
10/7/2024 20:37	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:37	65206	PRIN_T4	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:37	67001	STHI_T2	6	357	351	0.17	0.18	0.01	0	0	0	0	0	0	0	0
10/7/2024 20:37	67401	WAKE_T2	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
10/7/2024 20:37	24201	PROV_T3	1	1	0	7.2	7.1	-0.1	-0.2	-0.19	0	0	0	0	0	0
10/7/2024 20:37	44505	HAMI_T2	0	0	0	0	0	0	0.64	0.67	0	0	0	0	0	0
10/7/2024 20:37	67503	WEWI_T2	1	1	0	7.2	8.6	1.4	0	0	0	0	0	0	0	0
10/7/2024 20:37	64305	LINC_T1	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
10/7/2024 20:37	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/7/2024 20:37	24204	PROV_T3	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:37	44201	POIN_T1	8	138	130	0.1	0.18	0.08	-1.93	-1.97	2	2	0	2100	2100	0
10/7/2024 20:37	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:37	44502	HAMI_T2	1	1	0	3.1	3.4	0.3	0	0	0	0	0	0	0	0
10/7/2024 20:37	20201	JERM_T1	2	2	0	0.2	0.15	-0.05	-0.39	-0.39	2	2	0	2400	2400	0
10/7/2024 20:38	14101	TRUM_T2	1	1	0	2	3	1	0	0	0	0	0	0	0	0
10/7/2024 20:38	54203	PENN_T1	107	74	-33	0.38	0.46	0.08	-0.28	1	0	0	0	0	0	0
10/7/2024 20:38	10705	CATA_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
10/7/2024 20:38	54201	PENN_T1	216	127	-89	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
10/7/2024 20:38	14103	TRUM_T2	159	354	195	0.22	0.36	0.14	0	0	0	0	0	0	0	0
10/7/2024 20:38	40602	PIGR_T1	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
10/7/2024 20:38	54205	PENN_T1	24	28	4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/7/2024 20:38	46003	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/7/2024 20:38	67503	WEWI_T2	1	1	0	7.2	8.6	1.4	0	0	0	0	0	0	0	0
10/7/2024 20:38	20401	ASHF_T2	6	7	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:38	65205	PRIN_T1	1	1	0	1.5	1.9	0.4	0	0	0	0	0	0	0	0
10/7/2024 20:38	65503	MOJO_T2	0	93	93	0	0.15	0.15	0	0	0	0	0	0	0	0
10/7/2024 20:38	15702	TANN_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
10/7/2024 20:38	44202	POIN_T2	0	0	0	0	0	0	-0.54	-0.54	1	1	0	1200	1200	0
10/7/2024 20:38	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:38	65202	PRIN_T1	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
10/7/2024 20:38	64903	MILL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:38	15703	TANN_T2	1	1	0	5.4	5.1	-0.3	0	0	0	0	0	0	0	0
10/7/2024 20:38	66902	SHIL_T2	0	71	71	0	0.12	0.12	0	0	0	0	0	0	0	0
10/7/2024 20:38	20403	ASHF_T2	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
10/7/2024 20:38	63804	HEMP_T1	1	1	0	5.8	5.2	-0.6	0	0	0	0	0	0	0	0
10/7/2024 20:38	44503	HAMI_T2	0	0	0	0	0	0	-1.26	-1.27	1	1	0	1200	1200	0
10/7/2024 20:38	67605	WARW_T1	14	15	1	0.54	0.51	-0.03	-1.1	-1.11	0	0	0	0	0	0
10/7/2024 20:38	66505	SMAN_T2	1	3	2	0.1	0.83	0.73	0.03	0.22	1	1	0	900	900	0
10/7/2024 20:38	67602	WARW_T2	0	0	0	0	0	0	1.25	1.18	1	1	0	300	300	0
10/7/2024 20:38	15204	SFAR_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
10/7/2024 20:38	66503	SMAN_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
10/7/2024 20:38	65502	MOJO_T2	0	263	263	0	0.2	0.2	0	0	0	0	0	0	0	0
10/7/2024 20:38	45501	DERR_T2	2	1	-1	0.4	0.1	-0.3	0.53	0.18	2	2	0	1800	1800	0
10/7/2024 20:38	40601	PIGR_T1	63	165	102	0.14	0.21	0.07	0	0	0	0	0	0	0	0
10/7/2024 20:38	46004	BERW_T2	0	1	1	0	0	0	-0.24	-0.21	0	0	0	0	0	0
10/7/2024 20:38	46002	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/7/2024 20:38	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.06	0	0	0	0	0	0
10/7/2024 20:38	15203	SFAR_T2	16	89	73	0.12	0.16	0.04	0	0	0	0	0	0	0	0
10/7/2024 20:38	64902	MILL_T2	0	0	0	0	0	0	-0.7	-0.66	1	1	0	900	900	0
10/7/2024 20:38	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
10/7/2024 20:38	66901	SHIL_T2	179	531	352	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/7/2024 20:38	66903	SHIL_T2	0	37	37	0	0.11	0.11	-1.59	-1.59	0	0	0	0	0	0
10/7/2024 20:38	58402	MORO_T1	0	0	0	0	0	0	0.4	0.36	1	1	0	900	900	0
10/7/2024 20:38	14102	TRUM_T2	1	1	0	6	5.7	-0.3	0.93	0.96	1	1	0	600	600	0
10/7/2024 20:38	67502	WEWI_T2	0	4	4	0	0.1	0.1	-0.43	-0.45	0	0	0	0	0	0
10/7/2024 20:38	44502	HAMI_T2	1	1	0	3.1	3.4	0.3	0	0	0	0	0	0	0	0
10/7/2024 20:38	45902	AUBU_T1	0	0	0	0	0	0	0.27	0.27	1	1	0	600	600	0
10/7/2024 20:38	63802	HEMP_T1	0	0	0	0	0	0	-0.95	-1.1	0	0	0	0	0	0
10/7/2024 20:39	67503	WEWI_T2	1	1	0	7.2	8.6	1.4	0	0	0	0	0	0	0	0
10/7/2024 20:39	46203	DANV_T2	1	1	0	8.6	8.7	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:39	46602	LACR_T1	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
10/7/2024 20:39	57205	ROSS_T1	0	190	190	0	0.17	0.17	0	0	0	0	0	0	0	0
10/7/2024 20:39	48302	ORWI_T2	2	2	0	1.1	1.2	0.1	-0.14	-0.14	0	0	0	0	0	0
10/7/2024 20:39	20401	ASHF_T2	6	7	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:39	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:39	20403	ASHF_T2	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
10/7/2024 20:39	64101	REFR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/7/2024 20:39	46101	MACI_T2	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
10/7/2024 20:39	65503	MOJO_T2	0	93	93	0	0.15	0.15	-0.39	-0.33	0	0	0	0	0	0
10/7/2024 20:39	43301	WATS_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:39	13302	ORVI_T2	0	0	0	0	0	0	1.43	1.51	0	0	0	0	0	0
10/7/2024 20:39	43302	WATS_T2	4	4	0	0.68	0.5	-0.18	0	0	0	0	0	0	0	0
10/7/2024 20:39	46205	DANV_T2	0	0	0	0	0	0	-0.93	0.37	1	0	-1	1200	0	-1200
10/7/2024 20:39	57203	ROSS_T1	8	941	933	0.11	0.29	0.18	0.43	0.4	0	0	0	0	0	0
10/7/2024 20:39	67002	STHI_T2	0	28	28	0	0.15	0.15	0	0	0	0	0	0	0	0
10/7/2024 20:39	67001	STHI_T2	6	357	351	0.17	0.18	0.01	0.22	0.18	0	0	0	0	0	0
10/7/2024 20:39	43304	WATS_T2	0	0	0	0	0	0	-0.5	-0.16	0	0	0	0	0	0
10/7/2024 20:39	16301	ALPA_T1	0	0	0	0	0	0	0.01	-0.02	0	0	0	0	0	0
10/7/2024 20:39	15203	SFAR_T2	16	89	73	0.12	0.16	0.04	-1.26	-1.3	0	0	0	0	0	0
10/7/2024 20:39	67502	WEWI_T2	0	4	4	0	0.1	0.1	-0.43	-0.45	0	0	0	0	0	0
10/7/2024 20:39	65502	MOJO_T2	0	263	263	0	0.2	0.2	0	0	0	0	0	0	0	0
10/7/2024 20:39	57201	ROSS_T1	172	452	280	0.34	0.51	0.17	0	0	0	0	0	0	0	0
10/7/2024 20:40	61501	EPET_T2	1	1	0	5.3	4.9	-0.4	0	0	0	0	0	0	0	0
10/7/2024 20:40	50107	HARR_T3	1	1	0	6.4	6.7	0.3	0	0	0	0	0	0	0	0
10/7/2024 20:40	54601	SUMM_T2	10	13	3	0.65	1.07	0.42	-1.93	-1.9	2	2	0	2100	2100	0
10/7/2024 20:40	67503	WEWI_T2	1	1	0	7.2	8.6	1.4	-0.21	-0.12	0	0	0	0	0	0
10/7/2024 20:40	65603	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:40	57403	SPAN_T1	26	385	359	0.3	0.43	0.13	0	0	0	0	0	0	0	0
10/7/2024 20:40	50102	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/7/2024 20:40	50103	HARR_T3	2	2	0	0.95	0.85	-0.1	0	0	0	0	0	0	0	0
10/7/2024 20:40	24603	VARD_T2	74	71	-3	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
10/7/2024 20:40	24602	VARD_T2	171	189	18	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
10/7/2024 20:40	63501	HEID_TBK1-2	1	32	31	0.9	0.23	-0.67	0.82	0.85	0	0	0	0	0	0
10/7/2024 20:40	44701	MUNC_T2	256	394	138	0.29	0.41	0.12	0	0	0	0	0	0	0	0
10/7/2024 20:40	44801	EDAN_T2	182	249	67	0.53	0.58	0.05	0	0	0	0	0	0	0	0
10/7/2024 20:40	65601	QVIL_T2	0	101	101	0	0.2	0.2	0	0	0	0	0	0	0	0
10/7/2024 20:40	66901	SHIL_T2	179	531	352	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/7/2024 20:40	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:40	44703	MUNC_T2	2	2	0	1.6	1.75	0.15	0	0	0	0	0	0	0	0
10/7/2024 20:40	67602	WARW_T2	0	0	0	0	0	0	1.25	1.18	1	1	0	300	300	0
10/7/2024 20:40	15203	SFAR_T2	16	89	73	0.12	0.16	0.04	-1.26	-1.3	0	0	0	0	0	0
10/7/2024 20:40	44502	HAMI_T2	1	1	0	3.1	3.4	0.3	0	0	0	0	0	0	0	0
10/7/2024 20:40	67502	WEWI_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:40	50201	HARR_T3	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/7/2024 20:40	66902	SHIL_T2	0	71	71	0	0.12	0.12	0	0	0	0	0	0	0	0
10/7/2024 20:40	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/7/2024 20:40	50105	HARR_T3	6	6	0	5.27	5.78	0.51	0	0	0	0	0	0	0	0
10/7/2024 20:40	67605	WARW_T1	14	15	1	0.54	0.51	-0.03	-1.1	-1.11	0	0	0	0	0	0
10/7/2024 20:40	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:40	66903	SHIL_T2	0	37	37	0	0.11	0.11	0	0	0	0	0	0	0	0
10/7/2024 20:40	45501	DERR_T2	2	1	-1	0.4	0.1	-0.3	0.53	0.18	2	2	0	1800	1800	0
10/7/2024 20:40	61504	EPET_T2	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
10/7/2024 20:40	65604	QVIL_T2	0	1	1	0	0.1	0.1	0.38	0.4	0	0	0	0	0	0
10/7/2024 20:40	50202	HARR_T3	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:40	54603	SUMM_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
10/7/2024 20:40	44802	EDAN_T2	0	0	0	0	0	0	-0.86	-0.9	0	0	0	0	0	0
10/7/2024 20:40	54602	SUMM_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
10/7/2024 20:40	44702	MUNC_T2	41	65	24	0.21	0.26	0.05	0	0	0	0	0	0	0	0
10/7/2024 20:40	57401	SPAN_T1	23	292	269	0.22	0.33	0.11	-2.63	-2.5	3	3	0	1800	1800	0
10/7/2024 20:41	63501	HEID_TBK1-2	1	32	31	0.9	0.23	-0.67	0.82	0.85	0	0	0	0	0	0
10/7/2024 20:41	41902	REED_T1	0	0	0	0	0	0	0.95	0.97	0	0	0	0	0	0
10/7/2024 20:41	67505	WEWI_T1	0	0	0	0	0	0	-0.18	-0.17	1	1	0	900	900	0
10/7/2024 20:41	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:41	67001	STHI_T2	6	357	351	0.17	0.18	0.01	0	0	0	0	0	0	0	0
10/7/2024 20:41	44801	EDAN_T2	182	249	67	0.53	0.58	0.05	0	0	0	0	0	0	0	0
10/7/2024 20:41	67501	WEWI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:41	54603	SUMM_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
10/7/2024 20:41	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.25	1	1	0	600	600	0
10/7/2024 20:41	47203	FAXO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/7/2024 20:41	57401	SPAN_T1	23	292	269	0.22	0.33	0.11	-2.63	-2.5	3	3	0	1800	1800	0
10/7/2024 20:41	54201	PENN_T1	216	127	-89	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
10/7/2024 20:41	54205	PENN_T1	24	28	4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/7/2024 20:41	40602	PIGR_T1	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
10/7/2024 20:41	54203	PENN_T1	107	74	-33	0.38	0.46	0.08	0	0	0	0	0	0	0	0
10/7/2024 20:41	44701	MUNC_T2	256	394	138	0.29	0.41	0.12	0	0	0	0	0	0	0	0
10/7/2024 20:41	54601	SUMM_T2	10	13	3	0.65	1.07	0.42	-1.93	-1.9	2	2	0	2100	2100	0
10/7/2024 20:41	44703	MUNC_T2	2	2	0	1.6	1.75	0.15	0.66	0.61	0	0	0	0	0	0
10/7/2024 20:41	44802	EDAN_T2	0	0	0	0	0	0	-0.86	-0.9	0	0	0	0	0	0
10/7/2024 20:41	40601	PIGR_T1	63	165	102	0.14	0.21	0.07	0	0	0	0	0	0	0	0
10/7/2024 20:41	44702	MUNC_T2	41	65	24	0.21	0.26	0.05	0	0	0	0	0	0	0	0
10/7/2024 20:41	54602	SUMM_T2	0	5	5	0	0.12	0.12	-2.36	-2.39	1	1	0	600	600	0
10/7/2024 20:41	57403	SPAN_T1	26	385	359	0.3	0.43	0.13	0	0	0	0	0	0	0	0
10/7/2024 20:41	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/7/2024 20:41	67002	STHI_T2	0	28	28	0	0.15	0.15	0.63	0.59	0	0	0	0	0	0
10/7/2024 20:42	67904	WNHO_T1	0	0	0	0	0	0	-1.15	-1.12	1	1	0	1200	1200	0
10/7/2024 20:42	41202	KENM_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
10/7/2024 20:42	54502	ENOL_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
10/7/2024 20:42	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.06	0	0	0	0	0	0
10/7/2024 20:42	45802	HEGI_T2	11	42	31	0.32	0.95	0.63	0	0	0	0	0	0	0	0
10/7/2024 20:42	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/7/2024 20:42	67502	WEWI_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:42	67503	WEWI_T2	1	1	0	7.2	8.6	1.4	-0.21	-0.12	0	0	0	0	0	0
10/7/2024 20:42	64101	REFR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/7/2024 20:42	57205	ROSS_T1	0	190	190	0	0.17	0.17	0	0	0	0	0	0	0	0
10/7/2024 20:42	46001	BERW_T1	0	0	0	0	0	0	-0.46	0.46	0	0	0	0	0	0
10/7/2024 20:42	57201	ROSS_T1	172	452	280	0.34	0.51	0.17	-1.33	-1.26	0	0	0	0	0	0
10/7/2024 20:42	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:42	55002	NEWP_T1	3	6	3	0.53	0.98	0.45	-0.54	-0.52	0	0	0	0	0	0
10/7/2024 20:42	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
10/7/2024 20:42	61504	EPET_T2	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
10/7/2024 20:42	50624	CCTY_T2	2	2	0	5.65	5.6	-0.05	0	0	0	0	0	0	0	0
10/7/2024 20:42	57203	ROSS_T1	8	941	933	0.11	0.29	0.18	0.43	0.4	0	0	0	0	0	0
10/7/2024 20:42	66505	SMAN_T2	1	3	2	0.1	0.83	0.73	0	0	0	0	0	0	0	0
10/7/2024 20:42	50625	CCTY_T2	5	5	0	2.68	2.6	-0.08	0	0	0	0	0	0	0	0
10/7/2024 20:42	66502	SMAN_T2	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
10/7/2024 20:42	41205	KENM_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
10/7/2024 20:42	54504	ENOL_T2	0	0	0	0	0	0	-1.14	-1.15	1	1	0	600	600	0
10/7/2024 20:42	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:42	54501	ENOL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/7/2024 20:42	64704	LITI_T1	0	0	0	0	0	0	0.31	0.97	1	0	-1	600	0	-600
10/7/2024 20:42	61501	EPET_T2	1	1	0	5.3	4.9	-0.4	0	0	0	0	0	0	0	0
10/7/2024 20:42	50623	CCTY_T2	5	5	0	6.2	5.4	-0.8	0	0	0	0	0	0	0	0
10/7/2024 20:43	61803	EELI_T2	0	0	0	0	0	0	0.24	0.86	1	0	-1	600	0	-600
10/7/2024 20:43	67602	WARW_T2	0	0	0	0	0	0	1.25	1.18	1	1	0	300	300	0
10/7/2024 20:43	43301	WATS_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:43	43302	WATS_T2	4	4	0	0.68	0.5	-0.18	0	0	0	0	0	0	0	0
10/7/2024 20:43	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:43	66901	SHIL_T2	179	531	352	0.2	0.23	0.03	-3.54	-3.52	2	2	0	2400	2400	0
10/7/2024 20:43	54201	PENN_T1	216	127	-89	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
10/7/2024 20:43	67605	WARW_T1	14	15	1	0.54	0.51	-0.03	-1.1	-1.11	0	0	0	0	0	0
10/7/2024 20:43	61501	EPET_T2	1	1	0	5.3	4.9	-0.4	0	0	0	0	0	0	0	0
10/7/2024 20:43	61101	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/7/2024 20:43	66902	SHIL_T2	0	71	71	0	0.12	0.12	0	0	0	0	0	0	0	0
10/7/2024 20:43	15203	SFAR_T2	16	89	73	0.12	0.16	0.04	-1.26	-1.3	0	0	0	0	0	0
10/7/2024 20:43	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:43	54203	PENN_T1	107	74	-33	0.38	0.46	0.08	-0.28	1	0	0	0	0	0	0
10/7/2024 20:43	61504	EPET_T2	0	0	0	0	0	0	0.36	0.4	0	0	0	0	0	0
10/7/2024 20:43	54205	PENN_T1	24	28	4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/7/2024 20:43	66903	SHIL_T2	0	37	37	0	0.11	0.11	0	0	0	0	0	0	0	0
10/7/2024 20:43	61801	EELI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/7/2024 20:43	21206	ECAR_T2	1	1	0	6.9	7.2	0.3	1.2	1.21	0	0	0	0	0	0
10/7/2024 20:43	43304	WATS_T2	0	0	0	0	0	0	-0.5	-0.16	0	0	0	0	0	0
10/7/2024 20:43	21204	ECAR_T2	1	1	0	0.3	0.4	0.1	-0.76	-0.76	0	0	0	0	0	0
10/7/2024 20:43	40801	EXCH_T2	1	2	1	0.1	0.15	0.05	0.77	0.78	0	0	0	0	0	0
10/7/2024 20:43	52501	PROG_T1	0	0	0	0	0	0	-0.26	-0.23	1	1	0	300	300	0
10/7/2024 20:44	55001	NEWP_T1	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
10/7/2024 20:44	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/7/2024 20:44	67402	WAKE_T2	0	0	0	0	0	0	-0.42	0.19	1	0	-1	600	0	-600
10/7/2024 20:44	67605	WARW_T1	14	15	1	0.54	0.51	-0.03	-1.1	-1.11	0	0	0	0	0	0
10/7/2024 20:44	54601	SUMM_T2	10	13	3	0.65	1.07	0.42	-1.93	-1.9	2	2	0	2100	2100	0
10/7/2024 20:44	40602	PIGR_T1	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
10/7/2024 20:44	16301	ALPA_T1	0	0	0	0	0	0	0.01	-0.02	0	0	0	0	0	0
10/7/2024 20:44	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/7/2024 20:44	54202	PENN_T2	0	9	9	0	0.13	0.13	0	0	0	0	0	0	0	0
10/7/2024 20:44	54602	SUMM_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
10/7/2024 20:44	63803	HEMP_T1	0	0	0	0	0	0	0.66	0.71	0	0	0	0	0	0
10/7/2024 20:44	54206	PENN_T2	0	37	37	0	0.11	0.11	0	0	0	0	0	0	0	0
10/7/2024 20:44	64101	REFR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/7/2024 20:44	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:44	45502	DERR_T2	0	0	0	0	0	0	-1.3	-1.3	0	0	0	0	0	0
10/7/2024 20:44	64802	MONE_T2	0	1	1	0	0.1	0.1	0.24	0.26	0	0	0	0	0	0
10/7/2024 20:44	45501	DERR_T2	2	1	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
10/7/2024 20:44	40802	EXCH_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
10/7/2024 20:44	64801	MONE_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:44	54204	PENN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
10/7/2024 20:44	65502	MOJO_T2	0	263	263	0	0.2	0.2	-0.87	-0.93	0	0	0	0	0	0
10/7/2024 20:44	54603	SUMM_T2	0	2	2	0	0.45	0.45	-0.26	-0.29	1	1	0	900	900	0
10/7/2024 20:44	63804	HEMP_T1	1	1	0	5.8	5.2	-0.6	0	0	0	0	0	0	0	0
10/7/2024 20:44	67501	WEWI_T1	0	2	2	0	0.1	0.1	-1.2	-1.22	1	1	0	600	600	0
10/7/2024 20:44	65503	MOJO_T2	0	93	93	0	0.15	0.15	0	0	0	0	0	0	0	0
10/7/2024 20:44	44201	POIN_T1	8	138	130	0.1	0.18	0.08	-1.93	-1.97	2	2	0	2100	2100	0
10/7/2024 20:44	45802	HEGI_T2	11	42	31	0.32	0.95	0.63	0.62	0.54	0	0	0	0	0	0
10/7/2024 20:44	40601	PIGR_T1	63	165	102	0.14	0.21	0.07	0	0	0	0	0	0	0	0
10/7/2024 20:44	40801	EXCH_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/7/2024 20:44	55002	NEWP_T1	3	6	3	0.53	0.98	0.45	0	0	0	0	0	0	0	0
10/7/2024 20:45	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:45	64101	REFR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/7/2024 20:45	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/7/2024 20:45	57402	SPAN_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
10/7/2024 20:45	66903	SHIL_T2	8	37	29	0.1	0.11	0.01	-1.59	-1.59	0	0	0	0	0	0
10/7/2024 20:45	14502	SCHO_T1	1	1	0	0.1	0.2	0.1	0.31	0.35	0	0	0	0	0	0
10/7/2024 20:45	46101	MACI_T2	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
10/7/2024 20:45	16302	ALPA_T2	0	0	0	0	0	0	0.65	0.69	0	0	0	0	0	0
10/7/2024 20:45	57404	SPAN_T2	0	8	8	0	0.2	0.2	0	0	0	0	0	0	0	0
10/7/2024 20:45	58401	MORO_T1	0	0	0	0	0	0	-3.66	-3.75	3	3	0	1800	1800	0
10/7/2024 20:45	40601	PIGR_T1	147	155	8	0.19	0.27	0.08	-0.81	-0.17	0	0	0	0	0	0
10/7/2024 20:45	67203	TEHI_T1	0	0	0	0	0	0	2.15	2.13	2	2	0	1500	1500	0
10/7/2024 20:45	44201	POIN_T1	15	158	143	0.13	0.18	0.05	-1.93	-1.97	2	2	0	2100	2100	0
10/7/2024 20:45	57401	SPAN_T1	157	291	134	0.24	0.33	0.09	-0.88	-0.83	1	1	0	600	600	0
10/7/2024 20:45	63801	HEMP_T1	0	0	0	0	0	0	-0.36	0.26	0	0	0	0	0	0
10/7/2024 20:45	63804	HEMP_T1	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
10/7/2024 20:45	54505	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
10/7/2024 20:45	54501	ENOL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/7/2024 20:45	57403	SPAN_T1	226	386	160	0.26	0.44	0.18	0	0	0	0	0	0	0	0
10/7/2024 20:45	66902	SHIL_T2	47	63	16	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
10/7/2024 20:45	66901	SHIL_T2	441	498	57	0.23	0.23	0	0	0	0	0	0	0	0	0
10/7/2024 20:45	40603	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:45	40602	PIGR_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/7/2024 20:45	46001	BERW_T1	0	0	0	0	0	0	-0.46	0.46	0	0	0	0	0	0
10/7/2024 20:45	54502	ENOL_T2	1	1	0	0.9	0.7	-0.2	-1.96	-1.36	1	0	-1	600	0	-600
10/7/2024 20:46	44201	POIN_T1	15	158	143	0.13	0.18	0.05	-1.93	-1.97	2	2	0	2100	2100	0
10/7/2024 20:46	40602	PIGR_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/7/2024 20:46	57201	ROSS_T1	252	465	213	0.47	0.51	0.04	0	0	0	0	0	0	0	0
10/7/2024 20:46	64101	REFR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/7/2024 20:46	45802	HEGI_T2	32	44	12	0.45	0.98	0.53	0.62	0.54	0	0	0	0	0	0
10/7/2024 20:46	40603	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:46	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:46	57205	ROSS_T1	27	313	286	0.1	0.17	0.07	0	0	0	0	0	0	0	0
10/7/2024 20:46	57203	ROSS_T1	382	985	603	0.15	0.32	0.17	0.43	0.4	0	0	0	0	0	0
10/7/2024 20:46	40601	PIGR_T1	147	155	8	0.19	0.27	0.08	0	0	0	0	0	0	0	0
10/7/2024 20:47	65503	MOJO_T2	33	132	99	0.11	0.16	0.05	0	0	0	0	0	0	0	0
10/7/2024 20:47	63805	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/7/2024 20:47	15703	TANN_T2	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
10/7/2024 20:47	63302	GREE_T1	0	0	0	0	0	0	0.43	0.38	0	0	0	0	0	0
10/7/2024 20:47	57401	SPAN_T1	157	291	134	0.24	0.33	0.09	-1.75	-1.67	2	2	0	1200	1200	0
10/7/2024 20:47	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
10/7/2024 20:47	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/7/2024 20:47	57205	ROSS_T1	27	313	286	0.1	0.17	0.07	0	0	0	0	0	0	0	0
10/7/2024 20:47	44301	BEAV_T2	0	0	0	0	0	0	0.45	0.47	1	1	0	600	600	0
10/7/2024 20:47	57201	ROSS_T1	252	465	213	0.47	0.51	0.04	-1.33	-1.26	0	0	0	0	0	0
10/7/2024 20:47	15702	TANN_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
10/7/2024 20:47	65502	MOJO_T2	165	281	116	0.13	0.22	0.09	-0.87	-0.93	0	0	0	0	0	0
10/7/2024 20:47	20603	GRWO_T2	7	11	4	0.1	0.12	0.02	0.3	0.33	0	0	0	0	0	0
10/7/2024 20:47	20601	GRWO_T2	13	47	34	0.13	0.17	0.04	0	0	0	0	0	0	0	0
10/7/2024 20:47	57203	ROSS_T1	382	985	603	0.15	0.32	0.17	0	0	0	0	0	0	0	0
10/7/2024 20:47	57403	SPAN_T1	226	386	160	0.26	0.44	0.18	0.05	0.06	0	0	0	0	0	0
10/7/2024 20:47	61801	EELI_T2	0	1	1	0	0.2	0.2	-0.89	-0.87	1	1	0	600	600	0
10/7/2024 20:48	67001	STHI_T2	252	389	137	0.13	0.19	0.06	0	0	0	0	0	0	0	0
10/7/2024 20:48	67002	STHI_T2	9	34	25	0.11	0.14	0.03	0.63	0.59	0	0	0	0	0	0
10/7/2024 20:48	64201	KINZ_T1	6	7	1	0.47	0.51	0.04	0	0	0	0	0	0	0	0
10/7/2024 20:48	44802	EDAN_T2	0	1	1	0	0	0	-0.86	-0.9	0	0	0	0	0	0
10/7/2024 20:48	64101	REFR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/7/2024 20:48	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:48	65001	NEFF_T2	1	79	78	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/7/2024 20:48	40603	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:48	57401	SPAN_T1	157	291	134	0.24	0.33	0.09	-0.88	-0.83	1	1	0	600	600	0
10/7/2024 20:48	45802	HEGI_T2	32	44	12	0.45	0.98	0.53	0	0	0	0	0	0	0	0
10/7/2024 20:48	55001	NEWP_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:48	40601	PIGR_T1	147	155	8	0.19	0.27	0.08	-0.81	-0.17	0	0	0	0	0	0
10/7/2024 20:48	40602	PIGR_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/7/2024 20:48	43302	WATS_T2	4	4	0	0.48	0.5	0.02	0	0	0	0	0	0	0	0
10/7/2024 20:48	20401	ASHF_T2	6	9	3	0.52	0.56	0.04	0	0	0	0	0	0	0	0
10/7/2024 20:48	64204	KINZ_T1	19	31	12	0.22	0.27	0.05	0	0	0	0	0	0	0	0
10/7/2024 20:48	55002	NEWP_T1	6	6	0	0.78	1.07	0.29	-0.27	-0.26	0	0	0	0	0	0
10/7/2024 20:48	67501	WEWI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:48	63804	HEMP_T1	1	1	0	5.5	5.2	-0.3	0.85	0.86	0	0	0	0	0	0
10/7/2024 20:48	43301	WATS_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/7/2024 20:48	49803	UNIV_T1	1	1	0	6	5.9	-0.1	-1.08	-1.1	0	0	0	0	0	0
10/7/2024 20:48	64203	KINZ_T1	0	0	0	0	0	0	-0.37	0.31	1	0	-1	600	0	-600
10/7/2024 20:48	57403	SPAN_T1	226	386	160	0.26	0.44	0.18	0	0	0	0	0	0	0	0
10/7/2024 20:48	65003	NEFF_T2	2	4	2	0.1	0.35	0.25	-1.45	-1.41	1	1	0	1200	1200	0
10/7/2024 20:48	44801	EDAN_T2	240	263	23	0.55	0.62	0.07	0	0	0	0	0	0	0	0
10/7/2024 20:48	20403	ASHF_T2	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
10/7/2024 20:48	64202	KINZ_T1	8	8	0	0.2	0.28	0.08	0	0	0	0	0	0	0	0
10/7/2024 20:49	60803	BUCK_T1	0	16	16	0	0.29	0.29	0	0	0	0	0	0	0	0
10/7/2024 20:49	57401	SPAN_T1	157	291	134	0.24	0.33	0.09	-0.88	-0.83	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/7/2024 20:49	60801	BUCK_T1	0	38	38	0	0.26	0.26	-0.22	-0.22	0	0	0	0	0	0
10/7/2024 20:49	63501	HEID_TBK1-2	18	35	17	0.21	0.32	0.11	0.82	0.85	0	0	0	0	0	0
10/7/2024 20:49	13704	SCHN_T2	0	4	4	0	0.1	0.1	-0.42	-0.43	0	0	0	0	0	0
10/7/2024 20:49	46504	LOHA_T1	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
10/7/2024 20:49	57201	ROSS_T1	252	465	213	0.47	0.51	0.04	0	0	0	0	0	0	0	0
10/7/2024 20:49	57403	SPAN_T1	226	386	160	0.26	0.44	0.18	0	0	0	0	0	0	0	0
10/7/2024 20:49	57205	ROSS_T1	27	313	286	0.1	0.17	0.07	0.12	0.09	0	0	0	0	0	0
10/7/2024 20:49	57203	ROSS_T1	382	985	603	0.15	0.32	0.17	0	0	0	0	0	0	0	0
10/7/2024 20:49	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
10/7/2024 20:49	44801	EDAN_T2	240	263	23	0.55	0.62	0.07	-1.72	-1.72	0	0	0	0	0	0
10/7/2024 20:49	46506	LOHA_T1	4	4	0	3.33	4.23	0.9	0	0	0	0	0	0	0	0
10/7/2024 20:49	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:50	66504	SMAN_T2	0	0	0	0	0	0	-0.39	-0.29	0	0	0	0	0	0
10/7/2024 20:50	44201	POIN_T1	15	158	143	0.13	0.18	0.05	-1.93	-1.97	2	2	0	2100	2100	0
10/7/2024 20:50	66505	SMAN_T2	3	3	0	0.53	0.83	0.3	0	0	0	0	0	0	0	0
10/7/2024 20:51	21501	CEAV_T2	0	0	0	0	0	0	1.1	1.09	0	0	0	0	0	0
10/7/2024 20:51	54502	ENOL_T2	1	1	0	0.9	0.7	-0.2	-1.96	-1.36	1	0	-1	600	0	-600
10/7/2024 20:51	54501	ENOL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/7/2024 20:51	43801	SWIL_T1	13	34	21	0.65	0.38	-0.27	0	0	0	0	0	0	0	0
10/7/2024 20:51	67201	TEHI_T1	0	0	0	0	0	0	-0.06	-0.12	1	1	0	900	900	0
10/7/2024 20:51	54505	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
10/7/2024 20:51	21502	CEAV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:51	44202	POIN_T2	0	0	0	0	0	0	-0.54	-0.56	1	1	0	1200	1200	0
10/7/2024 20:51	43802	SWIL_T1	0	0	0	0	0	0	-0.19	-0.19	1	1	0	600	600	0
10/7/2024 20:53	67605	WARW_T1	15	14	-1	0.49	0.36	-0.13	-1.11	-1.09	0	0	0	0	0	0
10/7/2024 20:53	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:53	53501	EVIL_T2	2	2	0	0.55	0.65	0.1	-0.75	-0.75	1	1	0	600	600	0
10/7/2024 20:53	44301	BEAV_T2	0	0	0	0	0	0	0.47	0.5	1	1	0	600	600	0
10/7/2024 20:54	55002	NEWP_T1	6	6	0	0.78	1.07	0.29	0	0	0	0	0	0	0	0
10/7/2024 20:54	44802	EDAN_T2	0	1	1	0	0	0	-0.9	-0.91	0	0	0	0	0	0
10/7/2024 20:54	44801	EDAN_T2	240	263	23	0.55	0.62	0.07	0	0	0	0	0	0	0	0
10/7/2024 20:54	57403	SPAN_T1	226	386	160	0.26	0.44	0.18	0.06	0.05	0	0	0	0	0	0
10/7/2024 20:54	57401	SPAN_T1	157	291	134	0.24	0.33	0.09	0	0	0	0	0	0	0	0
10/7/2024 20:54	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2024 20:54	55001	NEWP_T1	0	4	4	0	0.1	0.1	-0.26	-0.25	0	0	0	0	0	0
10/7/2024 20:55	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
10/7/2024 20:55	46506	LOHA_T1	4	4	0	3.33	4.23	0.9	0	0	0	0	0	0	0	0
10/7/2024 20:55	46504	LOHA_T1	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
10/7/2024 20:58	65202	PRIN_T1	2	7	5	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/7/2024 20:58	65205	PRIN_T1	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
10/7/2024 21:11	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
10/7/2024 21:36	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	-1.33	-1.36	1	1	0	600	600	0
10/7/2024 21:36	54502	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/7/2024 21:36	54501	ENOL_T2	1	5	4	0.4	0.18	-0.22	0	0	0	0	0	0	0	0
10/7/2024 22:00	15204	SFAR_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
10/7/2024 22:45	43801	SWIL_T1	2	2	0	3.15	3.1	-0.05	0	0	0	0	0	0	0	0
10/7/2024 22:45	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.19	1	1	0	600	600	0
10/8/2024 1:43	10801	CHHI_T1	1	0	-1	1.1	0	-1.1	-1.17	-1.19	1	1	0	900	900	0
10/8/2024 2:12	51204	MTON_T2	0	0	0	0	0	0	-1.49	-1.49	2	2	0	1500	1500	0
10/8/2024 6:49	57203	ROSS_T1	0	0	0	0	0	0	-0.52	-0.47	0	0	0	0	0	0
10/8/2024 7:50	13303	ORVI_T1	0	0	0	0	0	0	-0.43	-0.39	0	0	0	0	0	0
10/8/2024 7:53	13704	SCHN_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
10/8/2024 8:00	61502	EPET_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 8:00	61503	EPET_T1	0	0	0	0	0	0	-1.12	-1.12	0	0	0	0	0	0
10/8/2024 8:02	40802	EXCH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 8:02	40801	EXCH_T2	0	0	0	0	0	0	-0.66	-0.63	1	1	0	1200	1200	0
10/8/2024 8:05	55001	NEWP_T1	6	6	0	0.63	1.05	0.42	-0.27	-0.26	0	0	0	0	0	0
10/8/2024 8:05	54502	ENOL_T2	1	1	0	0.5	1.3	0.8	0	0	0	0	0	0	0	0
10/8/2024 8:05	65003	NEFF_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/8/2024 8:05	65001	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/8/2024 8:05	55001	NEWP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/8/2024 8:05	54505	ENOL_T2	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
10/8/2024 8:05	54503	ENOL_T2	0	0	0	0	0	0	-0.5	-0.46	1	1	0	600	600	0
10/8/2024 8:05	65004	NEFF_T2	0	0	0	0	0	0	-0.56	-0.55	0	0	0	0	0	0
10/8/2024 8:08	54503	ENOL_T2	0	0	0	0	0	0	-0.92	-0.96	2	2	0	1200	1200	0
10/8/2024 8:08	54505	ENOL_T2	1	1	0	0.3	1	0.7	-1.39	-1.4	1	1	0	600	600	0
10/8/2024 8:08	13303	ORVI_T1	0	0	0	0	0	0	-0.33	0.94	0	0	0	0	0	0
10/8/2024 8:08	54502	ENOL_T2	1	1	0	0.5	1.3	0.8	0	0	0	0	0	0	0	0
10/8/2024 8:09	51204	MTON_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	600	600	0
10/8/2024 8:10	24801	VALM_T1	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
10/8/2024 8:16	55501	HERS_T1	0	52	52	0	0.27	0.27	0	0	0	0	0	0	0	0
10/8/2024 8:16	55507	HERS_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
10/8/2024 8:17	55503	HERS_T1	0	0	0	0	0	0	-1.64	-1.64	1	1	0	1200	1200	0
10/8/2024 8:17	55501	HERS_T1	0	52	52	0	0.27	0.27	0	0	0	0	0	0	0	0
10/8/2024 8:21	65601	QVIL_T2	0	0	0	0	0	0	-1.16	-1.27	1	1	0	900	900	0
10/8/2024 8:23	13303	ORVI_T1	0	0	0	0	0	0	0.94	0.96	0	0	0	0	0	0
10/8/2024 8:26	45901	AUBU_T1	0	0	0	0	0	0	1.45	1.44	0	0	0	0	0	0
10/8/2024 8:27	59101	WALK_T2	1	1	0	1.5	1	-0.5	2.3	2.33	0	0	0	0	0	0
10/8/2024 8:28	58702	ROSE_T2	0	0	0	0	0	0	-0.29	-0.24	0	0	0	0	0	0
10/8/2024 8:28	58705	ROSE_T2	5	5	0	1.94	2.32	0.38	0	0	0	0	0	0	0	0
10/8/2024 8:30	46504	LOHA_T1	2	0	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
10/8/2024 8:30	46501	LOHA_T1	0	0	0	0	0	0	0.03	-0.03	1	1	0	1200	1200	0
10/8/2024 8:30	46506	LOHA_T1	4	3	-1	4.53	5.23	0.7	0	0	0	0	0	0	0	0
10/8/2024 8:37	49803	UNIV_T1	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
10/8/2024 8:37	49804	UNIV_T1	0	0	0	0	0	0	1.19	1.23	0	0	0	0	0	0
10/8/2024 8:37	10101	ALLE_T3	1	1	0	6.2	0.1	-6.1	0	0	0	0	0	0	0	0
10/8/2024 8:37	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 8:38	49803	UNIV_T1	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
10/8/2024 8:38	49804	UNIV_T1	0	0	0	0	0	0	1.19	1.23	0	0	0	0	0	0
10/8/2024 8:42	45901	AUBU_T1	0	0	0	0	0	0	1.44	1.56	0	0	0	0	0	0
10/8/2024 8:42	16004	DORN_T1	0	0	0	0	0	0	-1.13	-1.18	1	1	0	1200	1200	0
10/8/2024 8:43	45502	DERR_T2	2	3	1	1.15	0.4	-0.75	0	0	0	0	0	0	0	0
10/8/2024 8:43	45501	DERR_T2	0	1	1	0	0.5	0.5	0.39	0.36	2	2	0	1800	1800	0
10/8/2024 8:44	45501	DERR_T2	0	1	1	0	0.5	0.5	0.39	0.36	2	2	0	1800	1800	0
10/8/2024 8:44	55508	HERS_T2	2	2	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
10/8/2024 8:44	45502	DERR_T2	2	3	1	1.15	0.4	-0.75	0.53	0.53	0	0	0	0	0	0
10/8/2024 8:46	24702	FLND_T2	0	0	0	0	0	0	0.13	0.19	1	1	0	1200	1200	0
10/8/2024 8:46	16004	DORN_T1	0	1	1	0	0.1	0.1	-1.13	-1.18	1	1	0	1200	1200	0
10/8/2024 8:47	50502	MECH_T1	108	129	21	0.19	0.27	0.08	0	0	0	0	0	0	0	0
10/8/2024 8:47	50501	MECH_T1	4	4	0	1.05	1.08	0.03	0	0	0	0	0	0	0	0
10/8/2024 8:47	50505	MECH_T1	0	0	0	0	0	0	-0.93	-0.99	0	0	0	0	0	0
10/8/2024 8:48	50502	MECH_T1	108	129	21	0.19	0.27	0.08	1472.15	1472.26	1	1	0	900	900	0
10/8/2024 8:48	50501	MECH_T1	4	4	0	1.05	1.08	0.03	0	0	0	0	0	0	0	0
10/8/2024 8:54	57002	WHHI_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/8/2024 8:54	51303	WIND_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 8:54	57001	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 8:54	51301	WIND_T1	0	0	0	0	0	0	-0.5	-0.82	0	0	0	0	0	0
10/8/2024 8:55	57006	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 8:55	51303	WIND_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 8:55	51301	WIND_T1	0	0	0	0	0	0	-0.33	-0.54	0	0	0	0	0	0
10/8/2024 8:55	57002	WHHI_T2	1	3	2	0.1	0.13	0.03	-1.58	-1.56	0	0	0	0	0	0
10/8/2024 8:55	57001	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 8:56	57004	WHHI_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
10/8/2024 8:56	57002	WHHI_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/8/2024 8:56	51303	WIND_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 8:56	57001	WHHI_T2	0	1	1	0	0	0	-1.57	-1.56	1	1	0	900	900	0
10/8/2024 8:57	51904	COPA_T1	5	5	0	1.62	1.5	-0.12	0	0	0	0	0	0	0	0
10/8/2024 8:57	51906	COPA_T1	0	0	0	0	0	0	0	0	2	2	0	1500	1500	0
10/8/2024 8:57	57004	WHHI_T2	0	0	0	0	0	0	-1.1	-1.1	0	0	0	0	0	0
10/8/2024 8:57	57001	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 8:57	57002	WHHI_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/8/2024 8:58	51303	WIND_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 8:58	51301	WIND_T1	0	0	0	0	0	0	-0.17	-0.27	0	0	0	0	0	0
10/8/2024 8:58	57001	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 8:58	55507	HERS_T1	0	0	0	0	0	0	0.1	0.14	0	0	0	0	0	0
10/8/2024 8:58	55501	HERS_T1	52	52	0	0.27	0.31	0.04	0	0	0	0	0	0	0	0
10/8/2024 8:58	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 8:58	57002	WHHI_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/8/2024 9:21	57002	WHHI_T2	0	4	4	0	0.13	0.13	-1.56	-1.56	0	0	0	0	0	0
10/8/2024 9:23	47802	MOCA_T2	0	0	0	0	0	0	0.46	0.54	0	0	0	0	0	0
10/8/2024 9:25	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
10/8/2024 9:25	57203	ROSS_T1	0	1	1	0	0.2	0.2	0.23	0.31	0	0	0	0	0	0
10/8/2024 9:25	57205	ROSS_T1	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
10/8/2024 9:25	57201	ROSS_T1	47	130	83	0.2	0.24	0.04	0	0	0	0	0	0	0	0
10/8/2024 9:25	67605	WARW_T1	32	37	5	0.58	0.52	-0.06	0	0	0	0	0	0	0	0
10/8/2024 9:27	67605	WARW_T1	32	37	5	0.58	0.52	-0.06	0	0	0	0	0	0	0	0
10/8/2024 9:27	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
10/8/2024 9:28	44802	EDAN_T2	2	67	65	0.25	0.13	-0.12	0	0	0	0	0	0	0	0
10/8/2024 9:28	44801	EDAN_T2	194	330	136	0.79	0.86	0.07	-1.65	-1.65	0	0	0	0	0	0
10/8/2024 9:29	40701	FFLD_T1	28	33	5	0.41	0.5	0.09	0	0	0	0	0	0	0	0
10/8/2024 9:29	40703	FFLD_T1	2	4	2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/8/2024 9:29	40702	FFLD_T1	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
10/8/2024 9:33	46102	MACI_T1	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
10/8/2024 9:36	40603	PIGR_T1	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
10/8/2024 9:36	40602	PIGR_T1	4	5	1	0.23	0.22	-0.01	0.62	0.61	0	0	0	0	0	0
10/8/2024 9:36	40601	PIGR_T1	348	359	11	0.88	0.99	0.11	0	0	0	0	0	0	0	0
10/8/2024 9:37	40601	PIGR_T1	348	359	11	0.88	0.99	0.11	0	0	0	0	0	0	0	0
10/8/2024 9:37	40603	PIGR_T1	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
10/8/2024 9:37	40602	PIGR_T1	4	5	1	0.23	0.22	-0.01	0.61	0.62	0	0	0	0	0	0
10/8/2024 9:38	40601	PIGR_T1	348	359	11	0.88	0.99	0.11	0	0	0	0	0	0	0	0
10/8/2024 9:38	40603	PIGR_T1	1	3	2	0.2	0.2	0	0.36	0.34	0	0	0	0	0	0
10/8/2024 9:38	40602	PIGR_T1	4	5	1	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
10/8/2024 9:39	40602	PIGR_T1	4	5	1	0.23	0.22	-0.01	0.61	0.62	0	0	0	0	0	0
10/8/2024 9:39	67603	WARW_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
10/8/2024 9:39	40603	PIGR_T1	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
10/8/2024 9:39	40601	PIGR_T1	348	359	11	0.88	0.99	0.11	0	0	0	0	0	0	0	0
10/8/2024 9:39	67605	WARW_T1	32	38	6	0.52	0.51	-0.01	0	0	0	0	0	0	0	0
10/8/2024 9:40	40601	PIGR_T1	348	359	11	0.88	0.99	0.11	0	0	0	0	0	0	0	0
10/8/2024 9:40	67605	WARW_T1	32	38	6	0.52	0.51	-0.01	0	0	0	0	0	0	0	0
10/8/2024 9:40	40603	PIGR_T1	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
10/8/2024 9:40	67603	WARW_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
10/8/2024 9:40	40602	PIGR_T1	4	5	1	0.23	0.22	-0.01	2.44	2.48	0	0	0	0	0	0
10/8/2024 9:43	64202	KINZ_T1	3	3	0	1.13	1.07	-0.06	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/8/2024 9:43	64204	KINZ_T1	9	4	-5	0.32	0.55	0.23	0	0	0	0	0	0	0	0
10/8/2024 9:43	64201	KINZ_T1	0	0	0	0	0	0	-1.4	-1.35	3	3	0	1500	1500	0
10/8/2024 9:43	60201	ATGL_T2	8	3	-5	0.21	0.4	0.19	-0.14	-0.11	0	0	0	0	0	0
10/8/2024 9:44	54502	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
10/8/2024 9:44	54505	ENOL_T2	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
10/8/2024 9:44	54506	ENOL_T2	0	0	0	0	0	0	0.41	0.47	1	1	0	600	600	0
10/8/2024 9:45	40601	PIGR_T1	358	298	-60	0.99	0.85	-0.14	0	0	0	0	0	0	0	0
10/8/2024 9:45	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 9:45	63501	HEID_TBK1-2	2	5	3	0.9	0.4	-0.5	0.26	0.12	1	1	0	900	900	0
10/8/2024 9:45	64202	KINZ_T1	3	3	0	1.07	1	-0.07	0	0	0	0	0	0	0	0
10/8/2024 9:45	40602	PIGR_T1	5	1	-4	0.22	0.7	0.48	0.61	0.62	0	0	0	0	0	0
10/8/2024 9:45	40603	PIGR_T1	3	1	-2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/8/2024 9:45	64204	KINZ_T1	4	4	0	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
10/8/2024 9:46	64202	KINZ_T1	3	3	0	1.07	1	-0.07	0	0	0	0	0	0	0	0
10/8/2024 9:46	64204	KINZ_T1	4	4	0	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
10/8/2024 9:46	45801	HEGI_T1	0	0	0	0	0	0	-0.08	0.1	1	1	0	900	900	0
10/8/2024 9:46	60201	ATGL_T2	2	3	1	0.5	0.4	-0.1	-0.14	-0.11	0	0	0	0	0	0
10/8/2024 9:46	64201	KINZ_T1	0	0	0	0	0	0	-1.4	-1.35	3	3	0	1500	1500	0
10/8/2024 9:49	59001	MIFF_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/8/2024 9:49	59002	MIFF_T1	6	5	-1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
10/8/2024 9:49	63501	HEID_TBK1-2	2	5	3	0.9	0.4	-0.5	0.26	0.12	1	1	0	900	900	0
10/8/2024 9:49	64902	MILL_T2	1	2	1	0.3	0.2	-0.1	0.16	0.17	0	0	0	0	0	0
10/8/2024 9:49	59003	MIFF_T1	1	0	-1	0.4	0	-0.4	-0.52	-0.48	0	0	0	0	0	0
10/8/2024 9:50	54603	SUMM_T2	0	0	0	0	0	0	-0.34	-0.33	1	1	0	900	900	0
10/8/2024 9:50	54601	SUMM_T2	8	5	-3	0.39	0.46	0.07	0	0	0	0	0	0	0	0
10/8/2024 9:51	64305	LINC_T1	2	2	0	0.3	0.3	0	-0.17	-0.13	0	0	0	0	0	0
10/8/2024 9:51	51904	COPA_T1	5	5	0	0.8	1	0.2	0	0	0	0	0	0	0	0
10/8/2024 9:51	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 9:51	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 9:51	66504	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/8/2024 9:51	64904	MILL_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
10/8/2024 9:53	66504	SMAN_T2	0	1	1	0	0.3	0.3	-0.95	-0.79	0	0	0	0	0	0
10/8/2024 9:53	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 9:53	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 9:54	66504	SMAN_T2	0	1	1	0	0.3	0.3	-0.47	-0.4	0	0	0	0	0	0
10/8/2024 9:54	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 9:54	15001	BLMO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 9:54	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 9:55	60801	BUCK_T1	9	8	-1	0.17	0.21	0.04	-0.66	-0.67	1	1	0	600	600	0
10/8/2024 9:55	60803	BUCK_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/8/2024 9:56	15001	BLMO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 9:57	16004	DORN_T1	1	2	1	0.5	0.55	0.05	-1.12	-1.05	1	1	0	1200	1200	0
10/8/2024 9:58	16004	DORN_T1	1	2	1	0.5	0.55	0.05	-1.12	-1.05	1	1	0	1200	1200	0
10/8/2024 9:59	16004	DORN_T1	1	2	1	0.5	0.55	0.05	-1.12	-1.05	1	1	0	1200	1200	0
10/8/2024 10:00	54601	SUMM_T2	5	10	5	0.46	0.29	-0.17	-0.93	-0.93	1	1	0	1200	1200	0
10/8/2024 10:00	54502	ENOL_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
10/8/2024 10:00	13701	SCHN_T2	1	3	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
10/8/2024 10:00	54505	ENOL_T2	2	2	0	0.7	0.7	0	-2.8	-2.78	2	2	0	1200	1200	0
10/8/2024 10:00	65005	NEFF_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
10/8/2024 10:00	59003	MIFF_T1	0	0	0	0	0	0	-0.48	-0.42	0	0	0	0	0	0
10/8/2024 10:00	67502	WEWI_T2	12	15	3	0.31	0.34	0.03	0	0	0	0	0	0	0	0
10/8/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	1.06	1.05	0	0	0	0	0	0
10/8/2024 10:00	59002	MIFF_T1	5	4	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/8/2024 10:00	15203	SFAR_T2	1	2	1	0.2	0.25	0.05	-1.34	-1.32	0	0	0	0	0	0
10/8/2024 10:00	67503	WEWI_T2	1	1	0	9.6	9.3	-0.3	-0.28	-0.28	0	0	0	0	0	0
10/8/2024 10:00	15603	NSTR_T2	0	0	0	0	0	0	-0.3	-0.34	0	0	0	0	0	0
10/8/2024 10:00	46602	LACR_T1	1	1	0	0.2	0.8	0.6	-1	-0.98	0	0	0	0	0	0
10/8/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.37	0.42	0	0	0	0	0	0
10/8/2024 10:00	40601	PIGR_T1	298	242	-56	0.85	0.56	-0.29	0	0	0	0	0	0	0	0
10/8/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
10/8/2024 10:00	65004	NEFF_T2	1	2	1	0.6	0.4	-0.2	-0.54	-0.53	0	0	0	0	0	0
10/8/2024 10:00	61001	DONV_T1	1	2	1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
10/8/2024 10:00	40602	PIGR_T1	1	1	0	0.8	0.7	-0.1	0.62	0.55	0	0	0	0	0	0
10/8/2024 10:00	65003	NEFF_T2	5	1	-4	0.1	0.1	0	0	0	0	0	0	0	0	0
10/8/2024 10:00	50506	MECH_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/8/2024 10:00	13704	SCHN_T2	0	1	1	0	0.1	0.1	-0.31	-0.31	0	0	0	0	0	0
10/8/2024 10:00	15204	SFAR_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/8/2024 10:00	50502	MECH_T1	96	110	14	0.21	0.2	-0.01	1472.81	1472.26	1	1	0	900	900	0
10/8/2024 10:00	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 10:00	50505	MECH_T1	1	1	0	0.1	0.3	0.2	-0.95	-0.96	0	0	0	0	0	0
10/8/2024 10:00	40603	PIGR_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/8/2024 10:00	50501	MECH_T1	4	4	0	1.1	0.85	-0.25	0	0	0	0	0	0	0	0
10/8/2024 10:01	16004	DORN_T1	2	2	0	0.45	0.65	0.2	-1.12	-1.05	1	1	0	1200	1200	0
10/8/2024 10:02	50501	MECH_T1	4	4	0	1.1	0.85	-0.25	-0.15	0.16	0	0	0	0	0	0
10/8/2024 10:02	50506	MECH_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/8/2024 10:02	50502	MECH_T1	96	110	14	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
10/8/2024 10:02	50505	MECH_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/8/2024 10:07	66501	SMAN_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
10/8/2024 10:07	66504	SMAN_T2	1	1	0	0.3	0.4	0.1	-1.19	-1.25	0	0	0	0	0	0
10/8/2024 10:07	66502	SMAN_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
10/8/2024 10:08	15204	SFAR_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/8/2024 10:08	15203	SFAR_T2	1	2	1	0.2	0.25	0.05	-1.32	-1.36	0	0	0	0	0	0
10/8/2024 10:09	66504	SMAN_T2	1	1	0	0.3	0.4	0.1	-0.4	-0.42	0	0	0	0	0	0
10/8/2024 10:09	66502	SMAN_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
10/8/2024 10:09	66501	SMAN_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
10/8/2024 10:10	15001	BLMO_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/8/2024 10:11	46001	BERW_T1	1	1	0	0.2	0.6	0.4	0.89	0.78	0	0	0	0	0	0
10/8/2024 10:11	15001	BLMO_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/8/2024 10:12	64602	LEOL_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
10/8/2024 10:12	20403	ASHF_T2	2	2	0	0.25	0.25	0	1.24	1.47	0	0	0	0	0	0
10/8/2024 10:12	20402	ASHF_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/8/2024 10:12	20401	ASHF_T2	5	5	0	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
10/8/2024 10:14	60201	ATGL_T2	3	2	-1	0.4	0.45	0.05	-0.11	-0.12	0	0	0	0	0	0
10/8/2024 10:14	22003	BOHE_T1	127	95	-32	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
10/8/2024 10:14	22001	BOHE_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
10/8/2024 10:15	24202	PROV_T4	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/8/2024 10:15	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 10:16	63501	HEID_TBK1-2	4	8	4	0.45	0.58	0.13	0.14	0.18	1	1	0	900	900	0
10/8/2024 10:17	63501	HEID_TBK1-2	4	8	4	0.45	0.58	0.13	0.14	0.18	1	1	0	900	900	0
10/8/2024 10:18	25402	LAHA_T2	0	0	0	0	0	0	-0.5	-0.46	0	0	0	0	0	0
10/8/2024 10:19	54502	ENOL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
10/8/2024 10:19	54505	ENOL_T2	1	2	1	0.6	0.75	0.15	-1.39	-1.37	1	1	0	600	600	0
10/8/2024 10:20	12604	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 10:20	64704	LITI_T1	0	0	0	0	0	0	0.15	0.15	2	2	0	1200	1200	0
10/8/2024 10:20	12601	MACA_T1	1	1	0	1	1.7	0.7	0	0	0	0	0	0	0	0
10/8/2024 10:20	12606	MACA_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
10/8/2024 10:21	13704	SCHN_T2	0	1	1	0	0.1	0.1	-0.31	-0.31	0	0	0	0	0	0
10/8/2024 10:21	13701	SCHN_T2	3	2	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/8/2024 10:25	66501	SMAN_T2	2	2	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
10/8/2024 10:25	66502	SMAN_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
10/8/2024 10:25	66505	SMAN_T2	0	0	0	0	0	0	0.23	0.5	1	1	0	900	900	0
10/8/2024 10:25	66504	SMAN_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
10/8/2024 10:26	60201	ATGL_T2	2	2	0	0.35	0.5	0.15	-0.12	-0.17	0	0	0	0	0	0
10/8/2024 10:27	45502	DERR_T2	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
10/8/2024 10:27	45501	DERR_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
10/8/2024 10:28	16004	DORN_T1	2	3	1	0.3	0.57	0.27	0	0	0	0	0	0	0	0
10/8/2024 10:28	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 10:29	67805	WLAN_T1	0	0	0	0	0	0	-0.09	0.08	0	0	0	0	0	0
10/8/2024 10:29	67803	WLAN_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/8/2024 10:29	67804	WLAN_T1	4	4	0	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
10/8/2024 10:30	46803	HEPB_T2	3	7	4	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
10/8/2024 10:30	46801	HEPB_T2	3	3	0	0.97	1.03	0.06	0.51	0.54	0	0	0	0	0	0
10/8/2024 10:33	64305	LINC_T1	1	1	0	0.3	0.5	0.2	-0.15	-0.09	0	0	0	0	0	0
10/8/2024 10:33	64303	LINC_T1	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
10/8/2024 10:33	46801	HEPB_T2	3	3	0	0.97	1.03	0.06	0.51	0.54	0	0	0	0	0	0
10/8/2024 10:33	46803	HEPB_T2	3	7	4	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
10/8/2024 10:37	66502	SMAN_T2	2	6	4	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
10/8/2024 10:37	66504	SMAN_T2	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
10/8/2024 10:37	66501	SMAN_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
10/8/2024 10:38	41902	REED_T1	0	0	0	0	0	0	0.95	0.98	0	0	0	0	0	0
10/8/2024 10:38	15702	TANN_T2	1	0	-1	6.6	0	-6.6	-0.41	-0.45	0	0	0	0	0	0
10/8/2024 10:38	67201	TEHI_T1	0	2	2	0	0.2	0.2	1.03	1.13	1	1	0	900	900	0
10/8/2024 10:38	15703	TANN_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
10/8/2024 10:39	57201	ROSS_T1	133	132	-1	0.27	0.25	-0.02	-1.08	-1.05	0	0	0	0	0	0
10/8/2024 10:39	15203	SFAR_T2	2	4	2	0.25	0.4	0.15	-1.37	-1.34	0	0	0	0	0	0
10/8/2024 10:39	57205	ROSS_T1	6	7	1	0.68	0.77	0.09	0	0	0	0	0	0	0	0
10/8/2024 10:39	57203	ROSS_T1	2	5	3	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
10/8/2024 10:39	15204	SFAR_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
10/8/2024 10:40	15702	TANN_T2	1	0	-1	6.6	0	-6.6	-0.83	-0.89	0	0	0	0	0	0
10/8/2024 10:40	57203	ROSS_T1	2	5	3	0.2	0.16	-0.04	0.6	0.62	0	0	0	0	0	0
10/8/2024 10:40	57201	ROSS_T1	133	132	-1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
10/8/2024 10:40	57205	ROSS_T1	6	7	1	0.68	0.77	0.09	0	0	0	0	0	0	0	0
10/8/2024 10:40	15703	TANN_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
10/8/2024 10:41	57203	ROSS_T1	2	5	3	0.2	0.16	-0.04	0.3	0.31	0	0	0	0	0	0
10/8/2024 10:41	57205	ROSS_T1	6	7	1	0.68	0.77	0.09	0	0	0	0	0	0	0	0
10/8/2024 10:41	57201	ROSS_T1	133	132	-1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
10/8/2024 10:42	45902	AUBU_T1	0	0	0	0	0	0	0.05	0.07	1	1	0	600	600	0
10/8/2024 10:43	14704	TREX_T1	1	1	0	3	3.7	0.7	0	0	0	0	0	0	0	0
10/8/2024 10:43	50103	HARR_T3	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
10/8/2024 10:43	14705	TREX_T1	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
10/8/2024 10:43	45902	AUBU_T1	0	0	0	0	0	0	0.05	0.07	1	1	0	600	600	0
10/8/2024 10:43	50201	HARR_T3	1	1	0	0.7	0.7	0	0	0	1	1	0	1200	1200	0
10/8/2024 10:43	50107	HARR_T3	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
10/8/2024 10:43	50105	HARR_T3	6	6	0	5.5	5.5	0	0	0	0	0	0	0	0	0
10/8/2024 10:44	50201	HARR_T3	1	1	0	0.7	0.7	0	0	0	1	1	0	1200	1200	0
10/8/2024 10:44	50105	HARR_T3	6	6	0	5.5	5.5	0	0	0	0	0	0	0	0	0
10/8/2024 10:44	50625	CCTY_T2	6	6	0	2.43	2.35	-0.08	0	0	0	0	0	0	0	0
10/8/2024 10:44	50103	HARR_T3	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
10/8/2024 10:44	57201	ROSS_T1	133	132	-1	0.27	0.25	-0.02	-1.08	-1.05	0	0	0	0	0	0
10/8/2024 10:44	57205	ROSS_T1	6	7	1	0.68	0.77	0.09	0.24	0.26	0	0	0	0	0	0
10/8/2024 10:44	50107	HARR_T3	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
10/8/2024 10:44	57203	ROSS_T1	2	5	3	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
10/8/2024 10:44	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/8/2024 10:44	50623	CCTY_T2	5	5	0	5.5	5.5	0	0	0	0	0	0	0	0	0
10/8/2024 10:44	50624	CCTY_T2	2	2	0	5.9	5.75	-0.15	0	0	0	0	0	0	0	0
10/8/2024 10:45	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 10:46	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	2	2	0	1800	1800
10/8/2024 10:47	63501	HEID_TBK1-2	8	7	-1	0.58	0.79	0.21	0.3	0.25	1	1	0	900	900	0
10/8/2024 10:47	65604	QVIL_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
10/8/2024 10:47	65601	QVIL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/8/2024 10:48	57205	ROSS_T1	6	7	1	0.8	0.79	-0.01	0	0	0	0	0	0	0	0
10/8/2024 10:48	63501	HEID_TBK1-2	8	7	-1	0.58	0.79	0.21	0.3	0.25	1	1	0	900	900	0
10/8/2024 10:48	57203	ROSS_T1	3	4	1	0.13	0.15	0.02	0.3	0.31	0	0	0	0	0	0
10/8/2024 10:48	58401	MORO_T1	1	1	0	0.3	0.3	0	-1.04	-1	0	0	0	0	0	0
10/8/2024 10:48	57201	ROSS_T1	127	109	-18	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
10/8/2024 10:51	54601	SUMM_T2	10	4	-6	0.35	0.48	0.13	0	0	0	0	0	0	0	0
10/8/2024 10:51	54603	SUMM_T2	0	0	0	0	0	0	-0.22	-0.22	1	1	0	900	900	0
10/8/2024 10:52	65503	MOJO_T2	0	2	2	0	0.15	0.15	-0.02	-0.17	0	0	0	0	0	0
10/8/2024 10:52	58402	MORO_T1	0	0	0	0	0	0	-0.02	0	2	2	0	1500	1500	0
10/8/2024 10:52	58401	MORO_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/8/2024 10:53	43802	SWIL_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
10/8/2024 10:53	43801	SWIL_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
10/8/2024 10:54	40601	PIGR_T1	226	286	60	0.5	0.78	0.28	0.17	0.11	0	0	0	0	0	0
10/8/2024 10:54	40603	PIGR_T1	1	4	3	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/8/2024 10:54	67502	WEWI_T2	13	10	-3	0.43	0.53	0.1	-0.23	-0.14	0	0	0	0	0	0
10/8/2024 10:54	67503	WEWI_T2	1	1	0	9.5	9.3	-0.2	0	0	0	0	0	0	0	0
10/8/2024 10:54	40602	PIGR_T1	1	2	1	1	0.1	-0.9	0	0	0	0	0	0	0	0
10/8/2024 10:55	54601	SUMM_T2	10	4	-6	0.35	0.48	0.13	0	0	0	0	0	0	0	0
10/8/2024 10:55	54603	SUMM_T2	0	0	0	0	0	0	-0.22	-0.22	1	1	0	900	900	0
10/8/2024 10:56	67603	WARW_T1	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
10/8/2024 10:56	40603	PIGR_T1	1	4	3	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/8/2024 10:56	67605	WARW_T1	37	20	-17	0.54	0.68	0.14	-1.08	-1.04	0	0	0	0	0	0
10/8/2024 10:56	40601	PIGR_T1	226	286	60	0.5	0.78	0.28	0.17	0.11	0	0	0	0	0	0
10/8/2024 10:56	40602	PIGR_T1	1	2	1	1	0.1	-0.9	0	0	0	0	0	0	0	0
10/8/2024 10:57	40603	PIGR_T1	1	4	3	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/8/2024 10:57	67605	WARW_T1	37	20	-17	0.54	0.68	0.14	-2.17	-2.08	0	0	0	0	0	0
10/8/2024 10:57	67505	WEWI_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/8/2024 10:57	40602	PIGR_T1	1	2	1	1	0.1	-0.9	0	0	0	0	0	0	0	0
10/8/2024 10:57	40601	PIGR_T1	226	286	60	0.5	0.78	0.28	0	0	0	0	0	0	0	0
10/8/2024 10:57	67501	WEWI_T1	4	5	1	0.9	1	0.1	-0.4	-0.5	0	0	0	0	0	0
10/8/2024 10:57	67603	WARW_T1	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
10/8/2024 10:58	40602	PIGR_T1	1	2	1	1	0.1	-0.9	2.69	2.69	0	0	0	0	0	0
10/8/2024 10:58	67503	WEWI_T2	1	1	0	9.5	9.3	-0.2	-0.27	-0.24	0	0	0	0	0	0
10/8/2024 10:58	60801	BUCK_T1	1	1	0	0.4	0.5	0.1	-0.62	-0.62	1	1	0	600	600	0
10/8/2024 10:58	67605	WARW_T1	37	20	-17	0.54	0.68	0.14	-1.08	-1.04	0	0	0	0	0	0
10/8/2024 10:58	67502	WEWI_T2	13	10	-3	0.43	0.53	0.1	0	0	0	0	0	0	0	0
10/8/2024 10:58	40601	PIGR_T1	226	286	60	0.5	0.78	0.28	0	0	0	0	0	0	0	0
10/8/2024 10:58	67603	WARW_T1	2	2	0	0.35	0.5	0.15	0.01	0.03	0	0	0	0	0	0
10/8/2024 10:58	40603	PIGR_T1	1	4	3	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/8/2024 10:59	60801	BUCK_T1	1	1	0	0.4	0.5	0.1	-0.62	-0.62	1	1	0	600	600	0
10/8/2024 10:59	67503	WEWI_T2	1	1	0	9.5	9.3	-0.2	0	0	0	0	0	0	0	0
10/8/2024 10:59	67502	WEWI_T2	13	10	-3	0.43	0.53	0.1	-0.23	-0.14	0	0	0	0	0	0
10/8/2024 10:59	40602	PIGR_T1	1	2	1	1	0.1	-0.9	0.67	0.67	0	0	0	0	0	0
10/8/2024 10:59	67603	WARW_T1	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
10/8/2024 10:59	67605	WARW_T1	37	20	-17	0.54	0.68	0.14	0	0	0	0	0	0	0	0
10/8/2024 10:59	40601	PIGR_T1	226	286	60	0.5	0.78	0.28	0	0	0	0	0	0	0	0
10/8/2024 10:59	40603	PIGR_T1	1	4	3	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/8/2024 11:01	24102	EHAZ_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
10/8/2024 11:01	24105	EHAZ_T1	4	4	0	5.98	6.15	0.17	0	0	0	0	0	0	0	0
10/8/2024 11:01	24104	EHAZ_T1	0	0	0	0	0	0	-0.85	-0.83	1	1	0	1200	1200	0
10/8/2024 11:01	24101	EHAZ_T1	1	3	2	1.7	0.75	-0.95	0	0	0	0	0	0	0	0
10/8/2024 11:02	48902	FOSP_T2	0	0	0	0	0	0	-0.31	-0.58	1	1	0	1200	1200	0
10/8/2024 11:02	48901	FOSP_T2	0	0	0	0	0	0	-0.06	-0.12	1	1	0	600	600	0
10/8/2024 11:03	48901	FOSP_T2	0	0	0	0	0	0	-0.06	-0.12	1	1	0	600	600	0
10/8/2024 11:04	57106	SPHI_T2	3	4	1	1	0.65	-0.35	0	0	0	0	0	0	0	0
10/8/2024 11:04	57104	SPHI_T2	3	3	0	3.17	1.13	-2.04	0.48	0.53	0	0	0	0	0	0
10/8/2024 11:04	57101	SPHI_T2	6	6	0	0.82	0.83	0.01	0	0	0	0	0	0	0	0
10/8/2024 11:05	54502	ENOL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
10/8/2024 11:05	54504	ENOL_T2	0	0	0	0	0	0	-1.16	-1.15	1	1	0	600	600	0
10/8/2024 11:05	54505	ENOL_T2	2	2	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
10/8/2024 11:05	48901	FOSP_T2	0	0	0	0	0	0	-0.06	-0.12	1	1	0	600	600	0
10/8/2024 11:06	48901	FOSP_T2	0	0	0	0	0	0	-0.06	-0.12	1	1	0	600	600	0
10/8/2024 11:07	14802	TREI_T2	0	2	2	0	0.2	0.2	0.31	0.39	0	0	0	0	0	0
10/8/2024 11:07	17002	RIRO_T2	3	5	2	0.83	0.66	-0.17	0.64	0.67	0	0	0	0	0	0
10/8/2024 11:07	14801	TREI_T2	1	3	2	0.6	0.37	-0.23	0	0	0	0	0	0	0	0
10/8/2024 11:08	14801	TREI_T2	1	3	2	0.6	0.37	-0.23	0.33	0.33	0	0	0	0	0	0
10/8/2024 11:08	14802	TREI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 11:10	14802	TREI_T2	0	2	2	0	0.2	0.2	0.31	0.39	0	0	0	0	0	0
10/8/2024 11:10	14801	TREI_T2	1	3	2	0.6	0.37	-0.23	0	0	0	0	0	0	0	0
10/8/2024 11:10	10801	CHHI_T1	6	15	9	0.47	0.55	0.08	-1.46	-1.49	2	2	0	1500	1500	0
10/8/2024 11:11	14801	TREI_T2	1	3	2	0.6	0.37	-0.23	0.33	0.33	0	0	0	0	0	0
10/8/2024 11:11	14802	TREI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 11:12	14801	TREI_T2	1	3	2	0.6	0.37	-0.23	0	0	0	0	0	0	0	0
10/8/2024 11:12	14802	TREI_T2	0	2	2	0	0.2	0.2	0.31	0.39	0	0	0	0	0	0
10/8/2024 11:12	16103	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 11:12	16102	BING_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/8/2024 11:12	16101	BING_T2	1	1	0	0.4	1.1	0.7	0.36	0.35	0	0	0	0	0	0
10/8/2024 11:14	51904	COPA_T1	5	5	0	0.84	0.88	0.04	0	0	0	0	0	0	0	0
10/8/2024 11:22	51903	COPA_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/8/2024 11:22	51904	COPA_T1	5	5	0	0.88	0.86	-0.02	0	0	0	0	0	0	0	0
10/8/2024 11:25	66501	SMAN_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
10/8/2024 11:25	55105	WERT_T1	0	0	0	0	0	0	-0.66	-0.62	1	1	0	900	900	0
10/8/2024 11:25	66504	SMAN_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/8/2024 11:25	66502	SMAN_T2	5	6	1	0.2	0.2	0	0.27	0.36	0	0	0	0	0	0
10/8/2024 11:27	66501	SMAN_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
10/8/2024 11:27	66502	SMAN_T2	5	6	1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/8/2024 11:27	66504	SMAN_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/8/2024 11:29	45501	DERR_T2	1	1	0	1.1	0.1	-1	0	0	0	0	0	0	0	0
10/8/2024 11:29	45502	DERR_T2	1	2	1	0.2	0	-0.2	0.48	0.48	0	0	0	0	0	0
10/8/2024 11:31	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/8/2024 11:34	64203	KINZ_T1	0	0	0	0	0	0	0.55	0.8	2	2	0	900	900	0
10/8/2024 11:34	64204	KINZ_T1	19	32	13	0.39	0.51	0.12	0	0	0	0	0	0	0	0
10/8/2024 11:34	64202	KINZ_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/8/2024 11:35	46801	HEPB_T2	2	2	0	1.3	1.45	0.15	0.54	0.54	0	0	0	0	0	0
10/8/2024 11:35	46803	HEPB_T2	5	7	2	0.4	0.4	0	0	0	0	0	0	0	0	0
10/8/2024 11:36	15201	SFAR_T1	0	0	0	0	0	0	0.18	0.18	1	1	0	1200	1200	0
10/8/2024 11:39	13704	SCHN_T2	1	1	0	0.2	0.2	0	-0.29	-0.29	0	0	0	0	0	0
10/8/2024 11:39	13701	SCHN_T2	3	3	0	0.3	0.37	0.07	0	0	0	0	0	0	0	0
10/8/2024 11:40	16103	BING_T2	1	1	0	0.2	0.5	0.3	-0.96	-0.96	2	2	0	1500	1500	0
10/8/2024 11:40	16102	BING_T2	1	5	4	0.5	0.32	-0.18	0	0	0	0	0	0	0	0
10/8/2024 11:40	16101	BING_T2	1	2	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/8/2024 11:41	22001	BOHE_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
10/8/2024 11:41	66502	SMAN_T2	2	7	5	0.35	0.4	0.05	0	0	0	0	0	0	0	0
10/8/2024 11:41	22003	BOHE_T1	241	240	-1	0.39	0.38	-0.01	-0.21	-0.21	0	0	0	0	0	0
10/8/2024 11:41	66501	SMAN_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
10/8/2024 11:41	66504	SMAN_T2	1	2	1	0.8	0.55	-0.25	-0.4	-0.42	0	0	0	0	0	0
10/8/2024 11:43	46004	BERW_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/8/2024 11:43	46002	BERW_T2	0	0	0	0	0	0	-0.64	-0.75	1	1	0	900	900	0
10/8/2024 11:45	46004	BERW_T2	0	3	3	0	0.27	0.27	-0.08	-0.03	0	0	0	0	0	0
10/8/2024 11:49	26301	OLFO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 11:49	63501	HEID_TBK1-2	7	9	2	0.57	0.53	-0.04	0.22	0.23	1	1	0	900	900	0
10/8/2024 11:50	65502	MOJO_T2	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
10/8/2024 11:50	65503	MOJO_T2	1	4	3	0.2	0.33	0.13	0	0	0	0	0	0	0	0
10/8/2024 11:50	26301	OLFO_T2	0	0	0	0	0	0	0.62	0.62	2	2	0	2400	2400	0
10/8/2024 11:51	65503	MOJO_T2	1	4	3	0.2	0.33	0.13	-0.93	-0.97	1	1	0	900	900	0
10/8/2024 11:51	65502	MOJO_T2	0	0	0	0	0	0	0.17	0.24	0	0	0	0	0	0
10/8/2024 11:59	10805	CHHI_T2	1	1	0	8.5	8.3	-0.2	-0.96	-1.11	1	1	0	1200	1200	0
10/8/2024 12:01	48302	ORWI_T2	2	2	0	0.2	0.35	0.15	0.03	0.01	0	0	0	0	0	0
10/8/2024 12:02	48302	ORWI_T2	2	2	0	0.2	0.35	0.15	0.03	0.01	0	0	0	0	0	0
10/8/2024 12:04	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 12:04	55002	NEWP_T1	9	12	3	0.82	0.8	-0.02	-0.44	-0.48	0	0	0	0	0	0
10/8/2024 12:04	48301	ORWI_T1	2	2	0	2.85	3	0.15	0	0	1	1	0	900	900	0
10/8/2024 12:05	48301	ORWI_T1	2	2	0	2.85	3	0.15	0	0	1	1	0	900	900	0
10/8/2024 12:06	65501	MOJO_T1	0	0	0	0	0	0	-0.9	-0.99	1	1	0	900	900	0
10/8/2024 12:06	41902	REED_T1	0	2	2	0	0.25	0.25	1	0.96	0	0	0	0	0	0
10/8/2024 12:07	14401	SSLA_T1	2	3	1	0.55	0.57	0.02	0	0	0	0	0	0	0	0
10/8/2024 12:07	14402	SSLA_T1	3	2	-1	0.5	0.85	0.35	0	0	0	0	0	0	0	0
10/8/2024 12:07	14404	SSLA_T1	4	5	1	0.33	0.32	-0.01	-0.02	-0.03	0	0	0	0	0	0
10/8/2024 12:07	14403	SSLA_T1	3	3	0	0.67	0.73	0.06	0	0	0	0	0	0	0	0
10/8/2024 12:08	41902	REED_T1	0	2	2	0	0.25	0.25	0.96	1	0	0	0	0	0	0
10/8/2024 12:10	14401	SSLA_T1	2	3	1	0.55	0.57	0.02	-0.41	-0.44	0	0	0	0	0	0
10/8/2024 12:10	14404	SSLA_T1	4	5	1	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
10/8/2024 12:10	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 12:10	66501	SMAN_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
10/8/2024 12:10	55002	NEWP_T1	9	12	3	0.82	0.8	-0.02	-0.24	-0.25	0	0	0	0	0	0
10/8/2024 12:10	66504	SMAN_T2	2	2	0	0.55	0.4	-0.15	-1.3	-1.35	0	0	0	0	0	0
10/8/2024 12:10	14402	SSLA_T1	3	2	-1	0.5	0.85	0.35	0	0	0	0	0	0	0	0
10/8/2024 12:10	14403	SSLA_T1	3	3	0	0.67	0.73	0.06	0	0	0	0	0	0	0	0
10/8/2024 12:10	66502	SMAN_T2	7	7	0	0.4	0.31	-0.09	0	0	0	0	0	0	0	0
10/8/2024 12:12	61701	ELIZ_T1	2	2	0	3.3	3.1	-0.2	0.39	0.57	0	0	0	0	0	0
10/8/2024 12:12	44301	BEAV_T2	3	2	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/8/2024 12:14	66502	SMAN_T2	7	7	0	0.4	0.31	-0.09	0	0	0	0	0	0	0	0
10/8/2024 12:14	66501	SMAN_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
10/8/2024 12:14	66504	SMAN_T2	2	2	0	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
10/8/2024 12:15	45802	HEGI_T2	48	47	-1	2.38	1.34	-1.04	0	0	0	0	0	0	0	0
10/8/2024 12:22	14401	SSLA_T1	3	3	0	0.5	0.63	0.13	0	0	0	0	0	0	0	0
10/8/2024 12:22	24603	VARD_T2	16	29	13	0.65	0.65	0	0	0	0	0	0	0	0	0
10/8/2024 12:22	14402	SSLA_T1	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
10/8/2024 12:22	14404	SSLA_T1	3	5	2	0.37	0.32	-0.05	0	0	0	0	0	0	0	0
10/8/2024 12:22	14403	SSLA_T1	3	3	0	0.67	0.73	0.06	0.59	0.67	0	0	0	0	0	0
10/8/2024 12:22	24602	VARD_T2	183	299	116	0.2	0.27	0.07	0	0	0	0	0	0	0	0
10/8/2024 12:23	60301	TWVA_T2	0	0	0	0	0	0	-2.79	-2.77	3	3	0	2700	2700	0
10/8/2024 12:25	66501	SMAN_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
10/8/2024 12:25	66502	SMAN_T2	7	6	-1	0.24	0.37	0.13	0	0	0	0	0	0	0	0
10/8/2024 12:25	66504	SMAN_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/8/2024 12:25	66503	SMAN_T2	0	0	0	0	0	0	0.42	0.38	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/8/2024 12:28	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 12:28	21501	CEAV_T2	0	0	0	0	0	0	0.77	0.75	1	1	0	1200	1200	0
10/8/2024 12:29	24702	FLND_T2	3	3	0	0.7	1.03	0.33	0.3	0.22	1	1	0	1200	1200	0
10/8/2024 12:31	64204	KINZ_T1	8	3	-5	0.5	0.63	0.13	0	0	0	0	0	0	0	0
10/8/2024 12:31	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/8/2024 12:31	28701	HAML_T2	5	5	0	0.76	0.7	-0.06	0	0	0	0	0	0	0	0
10/8/2024 12:31	40703	FFLD_T1	5	4	-1	0.56	0.35	-0.21	0.34	0.33	0	0	0	0	0	0
10/8/2024 12:31	40701	FFLD_T1	74	48	-26	0.6	0.34	-0.26	0	0	0	0	0	0	0	0
10/8/2024 12:31	28703	HAML_T2	3	3	0	0.53	0.57	0.04	0	0	0	0	0	0	0	0
10/8/2024 12:31	28702	HAML_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 12:31	64203	KINZ_T1	0	0	0	0	0	0	0.79	0.88	2	2	0	900	900	0
10/8/2024 12:31	40702	FFLD_T1	34	3	-31	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/8/2024 12:32	66502	SMAN_T2	6	2	-4	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
10/8/2024 12:32	66504	SMAN_T2	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/8/2024 12:32	66501	SMAN_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
10/8/2024 12:32	66503	SMAN_T2	0	0	0	0	0	0	0.42	0.38	0	0	0	0	0	0
10/8/2024 12:33	40702	FFLD_T1	34	3	-31	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/8/2024 12:33	40701	FFLD_T1	74	48	-26	0.6	0.34	-0.26	0	0	0	0	0	0	0	0
10/8/2024 12:33	64305	LINC_T1	1	1	0	0.7	0.4	-0.3	-0.12	-0.06	0	0	0	0	0	0
10/8/2024 12:33	40703	FFLD_T1	5	4	-1	0.56	0.35	-0.21	0	0	0	0	0	0	0	0
10/8/2024 12:35	64704	LITI_T1	1	0	-1	0.2	0	-0.2	0.12	0.13	1	1	0	600	600	0
10/8/2024 12:37	64802	MONE_T2	9	7	-2	0.56	0.54	-0.02	0.19	0.2	0	0	0	0	0	0
10/8/2024 12:38	67203	TEHI_T1	1	2	1	0.2	0	-0.2	3.34	2.7	2	3	1	1500	2100	600
10/8/2024 12:38	67201	TEHI_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/8/2024 12:42	67501	WEWI_T1	4	5	1	1.1	0.74	-0.36	0	0	0	0	0	0	0	0
10/8/2024 12:42	67505	WEWI_T1	0	0	0	0	0	0	-0.2	-0.21	1	1	0	900	900	0
10/8/2024 12:48	63501	HEID_TBK1-2	6	4	-2	0.62	0.68	0.06	0.3	0.26	1	1	0	900	900	0
10/8/2024 12:51	54601	SUMM_T2	13	13	0	0.47	0.35	-0.12	-1.81	-1.75	2	2	0	2100	2100	0
10/8/2024 12:59	54601	SUMM_T2	13	13	0	0.47	0.35	-0.12	-1.75	-1.79	2	2	0	2100	2100	0
10/8/2024 12:59	67603	WARW_T1	2	2	0	0.95	0.7	-0.25	0	0	0	0	0	0	0	0
10/8/2024 12:59	67605	WARW_T1	30	19	-11	0.6	0.75	0.15	-0.97	-1.03	0	0	0	0	0	0
10/8/2024 13:00	22901	HARW_T1	0	0	0	0	0	0	-0.43	-0.36	1	1	0	1200	1200	0
10/8/2024 13:05	64304	LINC_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/8/2024 13:05	64302	LINC_T2	0	0	0	0	0	0	1.31	1.4	0	0	0	0	0	0
10/8/2024 13:08	43301	WATS_T2	3	2	-1	0.3	0.5	0.2	0.19	0.17	0	0	0	0	0	0
10/8/2024 13:13	66502	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 13:13	66504	SMAN_T2	1	1	0	0.1	1	0.9	-0.35	-0.23	0	0	0	0	0	0
10/8/2024 13:13	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 13:15	20201	JERM_T1	0	0	0	0	0	0	0.27	0.23	2	2	0	2400	2400	0
10/8/2024 13:17	63501	HEID_TBK1-2	2	4	2	1.1	0.8	-0.3	0.36	0.37	1	1	0	900	900	0
10/8/2024 13:18	42902	MIDD_T2	0	1	1	0	0.2	0.2	-0.96	-0.89	1	1	0	600	600	0
10/8/2024 13:19	64203	KINZ_T1	0	0	0	0	0	0	0.99	1	2	2	0	900	900	0
10/8/2024 13:19	43202	MVIL_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
10/8/2024 13:19	43201	MVIL_T2	1	0	-1	0.6	0	-0.6	-0.4	-0.39	0	0	0	0	0	0
10/8/2024 13:19	64204	KINZ_T1	3	3	0	0.57	0.3	-0.27	0	0	0	0	0	0	0	0
10/8/2024 13:20	42902	MIDD_T2	0	1	1	0	0.2	0.2	-0.96	-0.89	1	1	0	600	600	0
10/8/2024 13:21	64303	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 13:21	64305	LINC_T1	0	0	0	0	0	0	0	-0.07	0	0	0	0	0	0
10/8/2024 13:23	54601	SUMM_T2	9	13	4	0.39	0.48	0.09	-1.79	-1.78	2	2	0	2100	2100	0
10/8/2024 13:23	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 13:23	55002	NEWP_T1	6	6	0	0.87	0.75	-0.12	-0.28	-0.29	0	0	0	0	0	0
10/8/2024 13:25	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 13:25	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 13:25	54601	SUMM_T2	9	13	4	0.39	0.48	0.09	-1.79	-1.78	2	2	0	2100	2100	0
10/8/2024 13:25	13701	SCHN_T2	0	0	0	0	0	0	-0.07	-0.08	1	1	0	600	600	0
10/8/2024 13:25	55002	NEWP_T1	6	6	0	0.87	0.75	-0.12	0	0	0	0	0	0	0	0
10/8/2024 13:29	40703	FFLD_T1	2	1	-1	0.2	0.3	0.1	0.42	0.42	0	0	0	0	0	0
10/8/2024 13:29	64602	LEOL_T1	0	0	0	0	0	0	0.26	0.31	0	0	0	0	0	0
10/8/2024 13:29	40701	FFLD_T1	25	31	6	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
10/8/2024 13:29	40702	FFLD_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/8/2024 13:32	22901	HARW_T1	0	0	0	0	0	0	-0.35	-0.37	1	1	0	1200	1200	0
10/8/2024 13:35	63601	LETO_T1	3	3	0	0.43	0.53	0.1	0.94	0.9	1	1	0	900	900	0
10/8/2024 13:35	63602	LETO_T1	3	6	3	0.33	0.35	0.02	0	0	0	0	0	0	0	0
10/8/2024 13:45	50201	HARR_T3	1	5	4	0.5	0.34	-0.16	0	0	1	1	0	1200	1200	0
10/8/2024 13:45	50103	HARR_T3	3	2	-1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
10/8/2024 13:45	50105	HARR_T3	6	6	0	5.68	5.63	-0.05	0	0	0	0	0	0	0	0
10/8/2024 13:45	50107	HARR_T3	1	1	0	7.4	7	-0.4	0	0	0	0	0	0	0	0
10/8/2024 13:46	13503	MCMI_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
10/8/2024 13:47	13503	MCMI_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
10/8/2024 13:52	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
10/8/2024 13:52	15703	TANN_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
10/8/2024 13:55	55002	NEWP_T1	4	11	7	1.05	0.89	-0.16	-0.26	-0.22	0	0	0	0	0	0
10/8/2024 14:02	42902	MIDD_T2	5	6	1	0.24	0.48	0.24	-0.91	-0.97	1	1	0	600	600	0
10/8/2024 14:07	54505	ENOL_T2	2	1	-1	0.4	0.6	0.2	-1.37	-1.4	1	1	0	600	600	0
10/8/2024 14:07	65501	MOJO_T1	0	0	0	0	0	0	-0.85	-0.93	1	1	0	900	900	0
10/8/2024 14:07	54504	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/8/2024 14:07	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/8/2024 14:10	43402	BENT_T1	2	1	-1	0.65	0.5	-0.15	-0.42	-0.4	1	1	0	600	600	0
10/8/2024 14:13	43402	BENT_T1	2	1	-1	0.65	0.5	-0.15	-0.42	-0.4	1	1	0	600	600	0
10/8/2024 14:17	10801	CHHI_T1	0	4	4	0	0.4	0.4	-1.25	-1.27	2	2	0	1500	1500	0
10/8/2024 14:21	41902	REED_T1	0	0	0	0	0	0	1.07	1.03	0	0	0	0	0	0
10/8/2024 14:24	55105	WERT_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 14:24	55101	WERT_T1	0	0	0	0	0	0	-1.02	-1.03	1	1	0	600	600	0
10/8/2024 14:27	60701	BREC_T1	0	0	0	0	0	0	-0.06	-0.06	2	2	0	1200	1200	0
10/8/2024 14:28	60701	BREC_T1	0	0	0	0	0	0	-0.06	-0.06	2	2	0	1200	1200	0
10/8/2024 14:32	21204	ECAR_T2	1	1	0	0	0	0	-0.73	-0.71	0	0	0	0	0	0
10/8/2024 14:32	21206	ECAR_T2	1	1	0	6.1	6.8	0.7	0	0	0	0	0	0	0	0
10/8/2024 14:43	45902	AUBU_T1	0	1	1	0	0.3	0.3	-0.18	-0.18	1	1	0	600	600	0
10/8/2024 14:44	67503	WEWI_T2	1	1	0	9	9	0	0	0	0	0	0	0	0	0
10/8/2024 14:44	67502	WEWI_T2	5	16	11	0.52	0.35	-0.17	-0.22	-0.2	0	0	0	0	0	0
10/8/2024 14:46	24102	EHAZ_T1	0	0	0	0	0	0	-0.27	-0.07	0	0	0	0	0	0
10/8/2024 14:46	24101	EHAZ_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/8/2024 14:46	24105	EHAZ_T1	4	4	0	6.23	6.08	-0.15	0	0	0	0	0	0	0	0
10/8/2024 14:47	45902	AUBU_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/8/2024 14:47	45901	AUBU_T1	0	0	0	0	0	0	1.5	1.48	0	0	0	0	0	0
10/8/2024 14:49	65005	NEFF_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
10/8/2024 14:49	65003	NEFF_T2	3	7	4	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
10/8/2024 14:49	65004	NEFF_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/8/2024 14:49	65001	NEFF_T2	0	1	1	0	0.2	0.2	-0.57	-0.61	1	1	0	1200	1200	0
10/8/2024 14:52	13303	ORVI_T1	3	4	1	0.43	0.4	-0.03	2.34	2.21	0	0	0	0	0	0
10/8/2024 14:53	13301	ORVI_T1	0	0	0	0	0	0	-0.35	-0.4	1	1	0	600	600	0
10/8/2024 14:53	13303	ORVI_T1	3	4	1	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
10/8/2024 14:54	16002	DORN_T2	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
10/8/2024 15:13	46004	BERW_T2	0	0	0	0	0	0	-0.11	-0.15	0	0	0	0	0	0
10/8/2024 15:16	63601	LETO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/8/2024 15:16	63602	LETO_T1	0	0	0	0	0	0	-0.47	-0.39	0	0	0	0	0	0
10/8/2024 15:19	65001	NEFF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/8/2024 15:19	65003	NEFF_T2	7	6	-1	0.33	0.3	-0.03	-1.53	-1.61	2	2	0	1800	1800	0
10/8/2024 15:19	65004	NEFF_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
10/8/2024 15:19	65005	NEFF_T2	2	2	0	0.55	0.35	-0.2	0	0	0	0	0	0	0	0
10/8/2024 15:20	64701	LITI_T1	0	1	1	0	0	0	0.41	0.39	0	0	0	0	0	0
10/8/2024 15:25	67203	TEHI_T1	0	0	0	0	0	0	2.01	1.91	2	2	0	1500	1500	0
10/8/2024 15:25	61301	EARL_T1	0	0	0	0	0	0	-1.14	-1.16	2	2	0	1800	1800	0
10/8/2024 15:25	67201	TEHI_T1	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
10/8/2024 15:27	44801	EDAN_T2	324	179	-145	0.83	0.68	-0.15	0	0	0	0	0	0	0	0
10/8/2024 15:27	67201	TEHI_T1	1	4	3	0.1	0.23	0.13	1.14	1.21	1	1	0	900	900	0
10/8/2024 15:27	44802	EDAN_T2	6	0	-6	0.22	0	-0.22	-0.77	-0.74	0	0	0	0	0	0
10/8/2024 15:28	44802	EDAN_T2	6	0	-6	0.22	0	-0.22	-0.77	-0.74	0	0	0	0	0	0
10/8/2024 15:28	44801	EDAN_T2	324	179	-145	0.83	0.68	-0.15	0	0	0	0	0	0	0	0
10/8/2024 15:29	45901	AUBU_T1	0	0	0	0	0	0	1.49	1.36	0	0	0	0	0	0
10/8/2024 15:29	44802	EDAN_T2	6	0	-6	0.22	0	-0.22	-0.77	-0.74	0	0	0	0	0	0
10/8/2024 15:29	44801	EDAN_T2	324	179	-145	0.83	0.68	-0.15	0	0	0	0	0	0	0	0
10/8/2024 15:30	44802	EDAN_T2	0	0	0	0	0	0	-1.55	-1.48	0	0	0	0	0	0
10/8/2024 15:30	44801	EDAN_T2	177	181	4	0.68	0.68	0	0	0	0	0	0	0	0	0
10/8/2024 15:31	44801	EDAN_T2	177	181	4	0.68	0.68	0	-1.61	-1.65	0	0	0	0	0	0
10/8/2024 15:31	44802	EDAN_T2	0	0	0	0	0	0	-0.77	-0.74	0	0	0	0	0	0
10/8/2024 15:35	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 15:35	46102	MACI_T1	0	1	1	0	0.1	0.1	0.92	0.88	0	0	0	0	0	0
10/8/2024 15:35	21202	ECAR_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/8/2024 15:35	21206	ECAR_T2	1	1	0	7.1	6.8	-0.3	1.42	1.3	0	0	0	0	0	0
10/8/2024 15:36	59301	MCAL_T1	0	0	0	0	0	0	-1.48	-1.48	1	1	0	600	600	0
10/8/2024 15:37	14502	SCHO_T1	1	1	0	0.2	0.3	0.1	0.27	0.33	0	0	0	0	0	0
10/8/2024 15:37	13302	ORVI_T2	1	2	1	0.5	0.55	0.05	1.44	1.39	0	0	0	0	0	0
10/8/2024 15:38	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
10/8/2024 15:40	61101	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/8/2024 15:40	16005	DORN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/8/2024 15:40	16004	DORN_T1	0	0	0	0	0	0	-1.96	-1.88	2	2	0	2400	2400	0
10/8/2024 15:40	66502	SMAN_T2	0	0	0	0	0	0	0.1	0.03	0	0	0	0	0	0
10/8/2024 15:41	42601	TUSC_T1	0	0	0	0	0	0	-0.2	-0.15	2	2	0	1800	1800	0
10/8/2024 15:42	16005	DORN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/8/2024 15:42	16004	DORN_T1	0	0	0	0	0	0	-0.98	-0.94	1	1	0	1200	1200	0
10/8/2024 15:42	66502	SMAN_T2	0	0	0	0	0	0	0.19	0.05	0	0	0	0	0	0
10/8/2024 15:43	66502	SMAN_T2	0	0	0	0	0	0	0.1	0.03	0	0	0	0	0	0
10/8/2024 15:44	66502	SMAN_T2	0	0	0	0	0	0	0.1	0.03	0	0	0	0	0	0
10/8/2024 15:45	66502	SMAN_T2	0	4	4	0	0.35	0.35	0.1	0.03	0	0	0	0	0	0
10/8/2024 15:45	44502	HAMI_T2	1	1	0	3.3	3.7	0.4	0	0	0	0	0	0	0	0
10/8/2024 15:45	44505	HAMI_T2	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
10/8/2024 15:50	65001	NEFF_T2	1	28	27	0.1	0.13	0.03	-0.8	-0.77	1	1	0	1200	1200	0
10/8/2024 15:50	65003	NEFF_T2	6	76	70	0.23	0.14	-0.09	0	0	0	0	0	0	0	0
10/8/2024 15:50	65005	NEFF_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/8/2024 15:51	46506	LOHA_T1	3	3	0	5.37	5.37	0	0	0	0	0	0	0	0	0
10/8/2024 15:51	46504	LOHA_T1	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
10/8/2024 15:51	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
10/8/2024 15:52	65005	NEFF_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/8/2024 15:52	65001	NEFF_T2	1	28	27	0.1	0.13	0.03	-0.77	-0.72	1	1	0	1200	1200	0
10/8/2024 15:52	65003	NEFF_T2	6	76	70	0.23	0.14	-0.09	0	0	0	0	0	0	0	0
10/8/2024 15:53	57401	SPAN_T1	3	4	1	0.67	0.53	-0.14	-0.13	-0.14	0	0	0	0	0	0
10/8/2024 15:53	57403	SPAN_T1	47	29	-18	0.3	0.28	-0.02	0.05	0.03	0	0	0	0	0	0
10/8/2024 15:54	57403	SPAN_T1	47	29	-18	0.3	0.28	-0.02	0.05	0.03	0	0	0	0	0	0
10/8/2024 15:54	57401	SPAN_T1	3	4	1	0.67	0.53	-0.14	-0.13	-0.14	0	0	0	0	0	0
10/8/2024 15:55	57401	SPAN_T1	3	4	1	0.67	0.53	-0.14	-0.13	-0.14	0	0	0	0	0	0
10/8/2024 15:55	57403	SPAN_T1	47	29	-18	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
10/8/2024 16:05	46506	LOHA_T1	3	3	0	5.27	5.43	0.16	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/8/2024 16:05	46501	LOHA_T1	0	0	0	0	0	0	-0.03	-0.06	1	1	0	1200	1200	0
10/8/2024 16:05	46504	LOHA_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/8/2024 16:07	65502	MOJO_T2	0	83	83	0	0.11	0.11	-1.18	-1.21	1	1	0	900	900	0
10/8/2024 16:08	65207	PRIN_T4	1	8	7	0.8	0.26	-0.54	0	0	0	0	0	0	0	0
10/8/2024 16:08	65206	PRIN_T4	2	1	-1	1.6	0	-1.6	0	0	0	0	0	0	0	0
10/8/2024 16:08	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 16:08	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 16:09	65205	PRIN_T1	1	2	1	1.7	1.1	-0.6	0	0	0	0	0	0	0	0
10/8/2024 16:09	65206	PRIN_T4	2	1	-1	1.6	0	-1.6	0	0	0	0	0	0	0	0
10/8/2024 16:09	65207	PRIN_T4	1	8	7	0.8	0.26	-0.54	0	0	2	2	0	1800	1800	0
10/8/2024 16:13	61801	EELI_T2	1	1	0	0.1	0.2	0.1	-0.72	-0.7	1	1	0	600	600	0
10/8/2024 16:16	63305	GREE_T1	8	7	-1	0.26	0.13	-0.13	-2.16	-1.97	1	1	0	900	900	0
10/8/2024 16:17	21901	HUMB_T1	0	0	0	0	0	0	-1.02	-0.98	0	0	0	0	0	0
10/8/2024 16:18	63305	GREE_T1	8	7	-1	0.26	0.13	-0.13	-2.16	-1.97	1	1	0	900	900	0
10/8/2024 16:22	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 16:25	46504	LOHA_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/8/2024 16:25	43301	WATS_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/8/2024 16:25	43302	WATS_T2	4	3	-1	0.45	0.3	-0.15	-0.63	-0.7	2	2	0	1800	1800	0
10/8/2024 16:25	43304	WATS_T2	0	0	0	0	0	0	-0.21	-0.16	0	0	0	0	0	0
10/8/2024 16:25	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
10/8/2024 16:25	46506	LOHA_T1	3	3	0	5.37	5.5	0.13	0	0	0	0	0	0	0	0
10/8/2024 16:26	24801	VALM_T1	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
10/8/2024 16:27	43302	WATS_T2	4	3	-1	0.45	0.3	-0.15	-0.63	-0.7	2	2	0	1800	1800	0
10/8/2024 16:27	43301	WATS_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/8/2024 16:28	43304	WATS_T2	0	0	0	0	0	0	-0.21	-0.16	0	0	0	0	0	0
10/8/2024 16:28	43302	WATS_T2	4	3	-1	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
10/8/2024 16:28	43301	WATS_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/8/2024 16:29	10602	BLGL_T2	2	1	-1	0.35	0.1	-0.25	0.13	0.12	0	0	0	0	0	0
10/8/2024 16:29	43301	WATS_T2	2	1	-1	0.2	0.4	0.2	0.19	0.19	0	0	0	0	0	0
10/8/2024 16:29	43304	WATS_T2	0	0	0	0	0	0	-0.21	-0.16	0	0	0	0	0	0
10/8/2024 16:29	43302	WATS_T2	4	3	-1	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
10/8/2024 16:30	63305	GREE_T1	7	3	-4	0.13	0.2	0.07	0	0	0	0	0	0	0	0
10/8/2024 16:30	63302	GREE_T1	0	0	0	0	0	0	0.66	0.61	0	0	0	0	0	0
10/8/2024 16:32	64401	LAND_T1	0	0	0	0	0	0	-2.09	-2.11	2	2	0	1200	1200	0
10/8/2024 16:32	66502	SMAN_T2	2	2	0	0.1	0.15	0.05	0.15	0.13	0	0	0	0	0	0
10/8/2024 16:33	64402	LAND_T2	0	0	0	0	0	0	-0.22	-0.19	1	1	0	600	600	0
10/8/2024 16:33	64401	LAND_T1	0	0	0	0	0	0	-2.09	-2.11	2	2	0	1200	1200	0
10/8/2024 16:33	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/8/2024 16:33	64404	LAND_T2	81	86	5	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
10/8/2024 16:35	64403	LAND_T1	0	0	0	0	0	0	-1.46	-1.36	1	1	0	900	900	0
10/8/2024 16:35	64401	LAND_T1	0	0	0	0	0	0	-2.09	-2.11	2	2	0	1200	1200	0
10/8/2024 16:41	54602	SUMM_T2	8	5	-3	0.15	0.16	0.01	-2.32	-2.38	1	1	0	600	600	0
10/8/2024 16:41	54601	SUMM_T2	13	13	0	0.57	0.51	-0.06	0	0	0	0	0	0	0	0
10/8/2024 16:42	57401	SPAN_T1	2	4	2	0.9	0.55	-0.35	-0.2	-0.16	0	0	0	0	0	0
10/8/2024 16:42	57403	SPAN_T1	20	31	11	0.25	0.28	0.03	0	0	0	0	0	0	0	0
10/8/2024 16:53	50505	MECH_T1	0	0	0	0	0	0	-0.95	-0.93	0	0	0	0	0	0
10/8/2024 16:53	50502	MECH_T1	129	130	1	0.22	0.33	0.11	0	0	0	0	0	0	0	0
10/8/2024 16:53	50501	MECH_T1	4	2	-2	0.65	0.3	-0.35	0	0	0	0	0	0	0	0
10/8/2024 16:59	66505	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 16:59	66502	SMAN_T2	0	4	4	0	0.18	0.18	0.16	0.06	0	0	0	0	0	0
10/8/2024 17:00	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 17:00	66502	SMAN_T2	2	4	2	0.15	0.18	0.03	0	0	0	0	0	0	0	0
10/8/2024 17:00	66505	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 17:01	66502	SMAN_T2	2	4	2	0.15	0.18	0.03	0.16	0.06	0	0	0	0	0	0
10/8/2024 17:01	66505	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 17:03	22602	KIMB_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
10/8/2024 17:04	23203	HIRU_T2	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
10/8/2024 17:05	23201	HIRU_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
10/8/2024 17:07	59301	MCAL_T1	2	9	7	0.2	0.39	0.19	-1.75	-1.79	1	1	0	600	600	0
10/8/2024 17:07	59302	MCAL_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
10/8/2024 17:08	59302	MCAL_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
10/8/2024 17:08	59301	MCAL_T1	2	9	7	0.2	0.39	0.19	-1.75	-1.79	1	1	0	600	600	0
10/8/2024 17:13	10903	COOP_T2	81	82	1	0.18	0.2	0.02	0	0	0	0	0	0	0	0
10/8/2024 17:16	23202	HIRU_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
10/8/2024 17:17	23203	HIRU_T2	0	0	0	0	0	0	0.15	0.07	0	0	0	0	0	0
10/8/2024 17:20	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 17:27	62101	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/8/2024 17:27	62105	ELAN_T1	17	1	-16	0.1	0.1	0	0.47	0.43	0	0	0	0	0	0
10/8/2024 17:28	62106	ELAN_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
10/8/2024 17:28	62101	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/8/2024 17:28	62105	ELAN_T1	17	1	-16	0.1	0.1	0	0	0	0	0	0	0	0	0
10/8/2024 17:30	63804	HEMP_T1	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
10/8/2024 17:30	67503	WEWI_T2	1	1	0	8.4	8	-0.4	-0.48	-0.47	0	0	0	0	0	0
10/8/2024 17:30	63801	HEMP_T1	0	0	0	0	0	0	-0.03	-0.2	0	0	0	0	0	0
10/8/2024 17:31	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 17:31	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 17:31	62101	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/8/2024 17:31	62105	ELAN_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/8/2024 17:38	28102	TWLA_T2	24	29	5	0.54	0.66	0.12	0.21	0.19	0	0	0	0	0	0
10/8/2024 17:45	57205	ROSS_T1	1	1	0	0.2	0.1	-0.1	0.19	0.19	0	0	0	0	0	0
10/8/2024 17:45	57201	ROSS_T1	171	253	82	0.3	0.45	0.15	0	0	0	0	0	0	0	0
10/8/2024 17:45	57203	ROSS_T1	18	407	389	0.11	0.15	0.04	0	0	0	0	0	0	0	0
10/8/2024 17:46	57205	ROSS_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/8/2024 17:46	57203	ROSS_T1	18	407	389	0.11	0.15	0.04	0.8	0.82	0	0	0	0	0	0
10/8/2024 17:46	57201	ROSS_T1	171	253	82	0.3	0.45	0.15	0	0	0	0	0	0	0	0
10/8/2024 17:47	59002	MIFF_T1	5	5	0	0.12	0.32	0.2	0	0	0	0	0	0	0	0
10/8/2024 17:47	59003	MIFF_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
10/8/2024 17:48	41502	FAIR_T2	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
10/8/2024 17:51	10206	ALLE_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
10/8/2024 17:51	10102	ALLE_T2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
10/8/2024 17:51	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 17:52	63501	HEID_TBK1-2	2	2	0	1.25	1.1	-0.15	0.61	0.55	0	0	0	0	0	0
10/8/2024 17:55	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 17:55	15202	SFAR_T1	0	0	0	0	0	0	-0.28	-0.29	1	1	0	1200	1200	0
10/8/2024 18:01	40702	FFLD_T1	41	101	60	0.17	0.22	0.05	0	0	0	0	0	0	0	0
10/8/2024 18:01	40701	FFLD_T1	29	38	9	0.37	0.48	0.11	0	0	0	0	0	0	0	0
10/8/2024 18:01	40703	FFLD_T1	4	4	0	0.3	0.38	0.08	0.41	0.41	0	0	0	0	0	0
10/8/2024 18:03	12001	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 18:03	12006	HATF_T1	0	0	0	0	0	0	0.48	0.36	1	1	0	1200	1200	0
10/8/2024 18:09	50107	HARR_T3	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
10/8/2024 18:09	50103	HARR_T3	2	2	0	1.05	1.15	0.1	0	0	0	0	0	0	0	0
10/8/2024 18:09	50201	HARR_T3	0	1	1	0	0.2	0.2	0	0	1	1	0	1200	1200	0
10/8/2024 18:09	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 18:09	50105	HARR_T3	6	7	1	5.4	4.6	-0.8	0	0	0	0	0	0	0	0
10/8/2024 19:41	21206	ECAR_T2	1	1	0	5.9	6.5	0.6	1.4	1.4	0	0	0	0	0	0
10/8/2024 19:41	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:14	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:15	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:18	63501	HEID_TBK1-2	1	1	0	1.3	1	-0.3	0.46	0.43	0	0	0	0	0	0
10/8/2024 20:23	24206	PROV_T4	4	4	0	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/8/2024 20:23	43402	BENT_T1	0	0	0	0	0	0	-0.64	-0.66	1	1	0	600	600	0
10/8/2024 20:23	24202	PROV_T4	31	46	15	0.21	0.15	-0.06	0	0	1	1	0	1200	1200	0
10/8/2024 20:27	26301	OLFO_T2	0	0	0	0	0	0	0.55	0.57	2	2	0	2400	2400	0
10/8/2024 20:28	28704	HAML_T2	3	24	21	0.1	0.13	0.03	-0.01	-0.01	0	0	0	0	0	0
10/8/2024 20:28	28702	HAML_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
10/8/2024 20:28	28703	HAML_T2	3	3	0	0.57	0.77	0.2	0	0	0	0	0	0	0	0
10/8/2024 20:28	28701	HAML_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:28	24801	VALM_T1	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
10/8/2024 20:29	12606	MAGA_T1	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
10/8/2024 20:30	23201	HIRU_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/8/2024 20:30	60701	BREC_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
10/8/2024 20:30	43201	MVIL_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
10/8/2024 20:30	23202	HIRU_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
10/8/2024 20:31	10602	BLGL_T2	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
10/8/2024 20:31	63602	LETO_T1	107	25	-82	0.24	0.11	-0.13	-0.51	-0.57	0	0	0	0	0	0
10/8/2024 20:32	43402	BENT_T1	0	0	0	0	0	0	-0.64	-0.66	1	1	0	600	600	0
10/8/2024 20:33	65004	NEFF_T2	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
10/8/2024 20:33	16101	BING_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
10/8/2024 20:33	44801	EDAN_T2	284	324	40	0.65	0.84	0.19	0	0	0	0	0	0	0	0
10/8/2024 20:33	44802	EDAN_T2	1	76	75	0.1	0.11	0.01	-0.91	-0.93	0	0	0	0	0	0
10/8/2024 20:33	65003	NEFF_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:33	65001	NEFF_T2	33	172	139	0.13	0.17	0.04	0	0	0	0	0	0	0	0
10/8/2024 20:34	26301	OLFO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:34	21901	HUMB_T1	0	0	0	0	0	0	-0.32	-0.3	0	0	0	0	0	0
10/8/2024 20:34	67503	WEWI_T2	1	1	0	8.4	8.6	0.2	-0.27	-0.27	0	0	0	0	0	0
10/8/2024 20:34	67502	WEWI_T2	154	222	68	0.25	0.29	0.04	0	0	0	0	0	0	0	0
10/8/2024 20:34	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:35	64401	LAND_T1	0	0	0	0	0	0	-1.2	-1.18	1	1	0	600	600	0
10/8/2024 20:35	65001	NEFF_T2	33	172	139	0.13	0.17	0.04	-1.01	-1.05	1	1	0	1200	1200	0
10/8/2024 20:35	44802	EDAN_T2	1	76	75	0.1	0.11	0.01	-0.91	-0.93	0	0	0	0	0	0
10/8/2024 20:35	17002	RIRO_T2	1	12	11	0.1	0.1	0	0.31	0.29	0	0	0	0	0	0
10/8/2024 20:35	45902	AUBU_T1	0	0	0	0	0	0	0.21	0.17	1	1	0	600	600	0
10/8/2024 20:35	43301	WATS_T2	0	1	1	0	0.3	0.3	0.14	0.15	0	0	0	0	0	0
10/8/2024 20:35	65003	NEFF_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:35	23201	HIRU_T2	0	3	3	0	0.17	0.17	0.16	0.15	0	0	0	0	0	0
10/8/2024 20:35	44801	EDAN_T2	284	324	40	0.65	0.84	0.19	0	0	0	0	0	0	0	0
10/8/2024 20:35	43302	WATS_T2	4	1	0.4	0.98	0.58	0	0	0	0	0	0	0	0	0
10/8/2024 20:36	44802	EDAN_T2	1	76	75	0.1	0.11	0.01	-0.93	-0.91	0	0	0	0	0	0
10/8/2024 20:36	48302	ORWI_T2	2	9	7	1.2	0.42	-0.78	-0.12	-0.13	0	0	0	0	0	0
10/8/2024 20:36	66504	SMAN_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
10/8/2024 20:36	44801	EDAN_T2	284	324	40	0.65	0.84	0.19	0	0	0	0	0	0	0	0
10/8/2024 20:36	67603	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:36	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
10/8/2024 20:36	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:36	65503	MOJO_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
10/8/2024 20:36	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
10/8/2024 20:36	67605	WARW_T1	25	44	19	0.54	0.54	0	-1.11	-1.13	0	0	0	0	0	0
10/8/2024 20:36	20201	IERM_T1	0	0	0	0	0	0	-0.38	-0.41	2	2	0	2400	2400	0
10/8/2024 20:36	63501	HEID_TBK1-2	1	2	1	0.8	0.8	0	0.77	0.81	0	0	0	0	0	0
10/8/2024 20:36	61701	ELIZ_T1	1	1	0	5.3	5.8	0.5	0.35	0.23	0	0	0	0	0	0
10/8/2024 20:36	64401	LAND_T1	0	0	0	0	0	0	-1.18	-1.18	1	1	0	600	600	0
10/8/2024 20:36	45902	AUBU_T1	0	0	0	0	0	0	0.21	0.17	1	1	0	600	600	0
10/8/2024 20:36	24603	VARD_T2	54	79	25	0.3	0.35	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/8/2024 20:36	24602	VARD_T2	152	197	45	0.25	0.28	0.03	0	0	0	0	0	0	0	0
10/8/2024 20:36	48901	FOSP_T2	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
10/8/2024 20:36	66505	SMAN_T2	3	3	0	0.5	0.97	0.47	0	0	0	0	0	0	0	0
10/8/2024 20:37	54601	SUMM_T2	12	13	1	1.02	1.18	0.16	0	0	0	0	0	0	0	0
10/8/2024 20:37	46004	BERW_T2	0	0	0	0	0	0	-0.3	-0.38	0	0	0	0	0	0
10/8/2024 20:37	59301	MCAL_T1	3	3	0	0.63	0.83	0.2	-1.87	-1.19	1	0	-1	600	0	-600
10/8/2024 20:37	54603	SUMM_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/8/2024 20:37	64401	LAND_T1	0	0	0	0	0	0	-1.18	-1.18	1	1	0	600	600	0
10/8/2024 20:37	54602	SUMM_T2	4	10	6	0.15	0.29	0.14	-2.44	-2.42	1	1	0	600	600	0
10/8/2024 20:37	22003	BOHE_T1	155	240	85	0.18	0.47	0.29	-0.2	-0.21	0	0	0	0	0	0
10/8/2024 20:37	48302	ORWI_T2	2	9	7	1.2	0.42	-0.78	-0.13	-0.11	0	0	0	0	0	0
10/8/2024 20:37	25402	LAHA_T2	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
10/8/2024 20:37	24702	FLND_T2	0	0	0	0	0	0	1.29	1.16	0	0	0	0	0	0
10/8/2024 20:37	59302	MCAL_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/8/2024 20:38	67502	WEWI_T2	154	222	68	0.25	0.29	0.04	-0.51	-0.52	0	0	0	0	0	0
10/8/2024 20:38	10102	ALLE_T2	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:38	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:38	40602	PIGR_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/8/2024 20:38	40601	PIGR_T1	304	383	79	0.56	0.63	0.07	0	0	0	0	0	0	0	0
10/8/2024 20:38	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.35	0	0	0	0	0	0
10/8/2024 20:38	46501	LOHA_T1	0	0	0	0	0	0	-0.07	-0.1	1	1	0	1200	1200	0
10/8/2024 20:38	10206	ALLE_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:38	67503	WEWI_T2	1	1	0	8.4	8.6	0.2	0	0	0	0	0	0	0	0
10/8/2024 20:38	46506	LOHA_T1	3	3	0	5.13	5.6	0.47	0	0	0	0	0	0	0	0
10/8/2024 20:38	46504	LOHA_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/8/2024 20:38	44802	EDAN_T2	1	76	75	0.1	0.11	0.01	-0.93	-0.91	0	0	0	0	0	0
10/8/2024 20:38	44801	EDAN_T2	284	324	40	0.65	0.84	0.19	0	0	0	0	0	0	0	0
10/8/2024 20:39	45901	AUBU_T1	0	0	0	0	0	0	1.51	1.55	0	0	0	0	0	0
10/8/2024 20:39	66505	SMAN_T2	3	3	0	0.5	0.97	0.47	0	0	0	0	0	0	0	0
10/8/2024 20:39	64401	LAND_T1	0	0	0	0	0	0	-1.18	-1.18	1	1	0	600	600	0
10/8/2024 20:39	22901	HARW_T1	0	0	0	0	0	0	-0.58	-0.6	1	1	0	1200	1200	0
10/8/2024 20:39	48301	ORWI_T1	2	2	0	5.1	5.6	0.5	0	0	1	1	0	900	900	0
10/8/2024 20:39	48902	FOSP_T2	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
10/8/2024 20:39	16004	DORN_T1	0	0	0	0	0	0	-1.2	-1.24	1	1	0	1200	1200	0
10/8/2024 20:39	14704	TREX_T1	1	1	0	3.6	3.4	-0.2	0	0	0	0	0	0	0	0
10/8/2024 20:39	55002	NEWP_T1	4	6	2	0.48	0.35	-0.13	-0.27	-0.27	0	0	0	0	0	0
10/8/2024 20:39	64704	LITI_T1	0	0	0	0	0	0	0.99	1	0	0	0	0	0	0
10/8/2024 20:39	48901	FOSP_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
10/8/2024 20:39	66504	SMAN_T2	0	0	0	0	0	0	-1.82	-1.8	0	0	0	0	0	0
10/8/2024 20:39	14802	TREI_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
10/8/2024 20:39	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
10/8/2024 20:39	55101	WERT_T1	0	0	0	0	0	0	-1.23	-1.24	1	1	0	600	600	0
10/8/2024 20:39	61101	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/8/2024 20:39	61102	BERK_T5	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/8/2024 20:39	14705	TREX_T1	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
10/8/2024 20:39	14401	SSLA_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
10/8/2024 20:40	23203	HIRU_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
10/8/2024 20:40	63602	LETO_T1	107	25	-82	0.24	0.11	-0.13	0	0	0	0	0	0	0	0
10/8/2024 20:40	65502	MOJO_T2	0	0	0	0	0	0	-1	-1.02	0	0	0	0	0	0
10/8/2024 20:40	63501	HEID_TBK1-2	1	2	1	0.8	0.8	0	0.38	0.4	0	0	0	0	0	0
10/8/2024 20:40	67203	TEHI_T1	0	0	0	0	0	0	2.28	2.39	2	2	0	1500	1500	0
10/8/2024 20:40	23201	HIRU_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/8/2024 20:40	64602	LEOL_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
10/8/2024 20:40	63601	LETO_T1	0	0	0	0	0	0	1.23	1.41	1	1	0	900	900	0
10/8/2024 20:40	67605	WARW_T1	25	44	19	0.54	0.54	0	-1.11	-1.13	0	0	0	0	0	0
10/8/2024 20:40	43302	WATS_T2	3	4	1	0.4	0.98	0.58	0	0	0	0	0	0	0	0
10/8/2024 20:40	65207	PRIN_T4	6	24	18	0.25	0.19	-0.06	0	0	2	2	0	1800	1800	0
10/8/2024 20:40	48901	FOSP_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
10/8/2024 20:40	45902	AUBU_T1	0	0	0	0	0	0	0.17	0.19	1	1	0	600	600	0
10/8/2024 20:40	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:40	65503	MOJO_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
10/8/2024 20:40	43301	WATS_T2	0	1	1	0	0.3	0.3	0.15	0.14	0	0	0	0	0	0
10/8/2024 20:40	67603	WARW_T1	0	1	1	0	0	0	-0.11	-0.09	0	0	0	0	0	0
10/8/2024 20:40	14801	TREI_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
10/8/2024 20:40	63305	GREE_T1	0	3	3	0	0.1	0.1	-1.28	-1.42	0	0	0	0	0	0
10/8/2024 20:40	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:41	40703	FFLD_T1	4	4	0	0.58	0.65	0.07	0	0	0	0	0	0	0	0
10/8/2024 20:41	65001	NEFF_T2	33	172	139	0.13	0.17	0.04	-1.05	-0.98	1	1	0	1200	1200	0
10/8/2024 20:41	40602	PIGR_T1	1	1	0	0.5	0.4	-0.1	1.3	1.26	0	0	0	0	0	0
10/8/2024 20:41	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:41	67103	SPRI_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
10/8/2024 20:41	40702	FFLD_T1	144	151	7	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/8/2024 20:41	44505	HAMI_T2	0	0	0	0	0	0	0.42	0.46	0	0	0	0	0	0
10/8/2024 20:41	54601	SUMM_T2	12	13	1	1.02	1.18	0.16	-2	-1.99	2	2	0	2100	2100	0
10/8/2024 20:41	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:41	65205	PRIN_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:41	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:41	59301	MCAL_T1	3	3	0	0.63	0.83	0.2	-1.87	-1.19	1	0	-1	600	0	-600
10/8/2024 20:41	45501	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:41	40701	FFLD_T1	65	71	6	0.46	0.48	0.02	0	0	0	0	0	0	0	0
10/8/2024 20:41	64302	LINC_T2	0	0	0	0	0	0	1.02	1.07	0	0	0	0	0	0
10/8/2024 20:41	63602	LETO_T1	107	25	-82	0.24	0.11	-0.13	-0.57	-0.56	0	0	0	0	0	0
10/8/2024 20:41	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:41	46004	BERW_T2	0	0	0	0	0	0	-0.3	-0.38	0	0	0	0	0	0
10/8/2024 20:41	46001	BERW_T1	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
10/8/2024 20:41	44802	EDAN_T2	1	76	75	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/8/2024 20:41	59302	MCAL_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/8/2024 20:41	54602	SUMM_T2	4	10	6	0.15	0.29	0.14	0	0	0	0	0	0	0	0
10/8/2024 20:41	42902	MIDD_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
10/8/2024 20:41	64304	LINC_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
10/8/2024 20:41	65003	NEFF_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:41	40601	PIGR_T1	304	383	79	0.56	0.63	0.07	0	0	0	0	0	0	0	0
10/8/2024 20:41	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
10/8/2024 20:41	67605	WARW_T1	25	44	19	0.54	0.54	0	-1.11	-1.13	0	0	0	0	0	0
10/8/2024 20:41	67603	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:41	44801	EDAN_T2	284	324	40	0.65	0.84	0.19	-1.69	-1.71	0	0	0	0	0	0
10/8/2024 20:41	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:41	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
10/8/2024 20:41	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
10/8/2024 20:41	54603	SUMM_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/8/2024 20:41	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/8/2024 20:41	44502	HAMI_T2	1	1	0	3	3.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:41	66505	SMAN_T2	3	3	0	0.5	0.97	0.47	0	0	0	0	0	0	0	0
10/8/2024 20:41	42601	TUSC_T1	1	1	0	0.6	0.6	0	-0.46	-0.56	2	2	0	1800	1800	0
10/8/2024 20:41	63501	HEID_TBK1-2	1	2	1	0.8	0.8	0	0.38	0.4	0	0	0	0	0	0
10/8/2024 20:41	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 20:41	45502	DERR_T2	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
10/8/2024 20:41	14404	SSLA_T1	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
10/8/2024 20:42	20401	ASHF_T2	2	4	2	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
10/8/2024 20:42	66505	SMAN_T2	3	3	0	0.5	0.97	0.47	0	0	0	0	0	0	0	0
10/8/2024 20:42	63501	HEID_TBK1-2	1	2	1	0.8	0.8	0	0.38	0.4	0	0	0	0	0	0
10/8/2024 20:42	67502	WEWI_T2	154	222	68	0.25	0.29	0.04	-0.51	-0.52	0	0	0	0	0	0
10/8/2024 20:42	66504	SMAN_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
10/8/2024 20:42	48901	FOSP_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
10/8/2024 20:42	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
10/8/2024 20:42	67503	WEWI_T2	1	1	0	8.4	8.6	0.2	0	0	0	0	0	0	0	0
10/8/2024 20:42	40602	PIGR_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/8/2024 20:42	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/8/2024 20:42	14802	TREI_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
10/8/2024 20:42	46801	HEPB_T2	2	2	0	0.65	0.35	-0.3	0.5	0.48	0	0	0	0	0	0
10/8/2024 20:42	10801	CHHI_T1	81	100	19	0.21	0.27	0.06	-1.48	-1.48	2	2	0	1500	1500	0
10/8/2024 20:42	20403	ASHF_T2	0	0	0	0	0	0	0.05	0.07	0	0	0	0	0	0
10/8/2024 20:42	65604	QVIL_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
10/8/2024 20:42	40601	PIGR_T1	304	383	79	0.56	0.63	0.07	0	0	0	0	0	0	0	0
10/8/2024 20:43	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:43	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:43	43302	WATS_T2	3	4	1	0.4	0.98	0.58	-0.79	-0.81	2	2	0	1800	1800	0
10/8/2024 20:43	66505	SMAN_T2	3	3	0	0.5	0.97	0.47	0	0	0	0	0	0	0	0
10/8/2024 20:43	14801	TREI_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
10/8/2024 20:43	54504	ENOL_T2	0	0	0	0	0	0	-1.17	-1.18	1	1	0	600	600	0
10/8/2024 20:43	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
10/8/2024 20:43	64305	LINC_T1	1	2	1	0.1	0.35	0.25	-0.64	-0.54	0	0	0	0	0	0
10/8/2024 20:43	16103	BING_T2	0	0	0	0	0	0	-0.92	-0.99	2	2	0	1500	1500	0
10/8/2024 20:43	24104	EHAZ_T1	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
10/8/2024 20:43	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 20:43	24105	EHAZ_T1	4	4	0	6.4	6.18	-0.22	0	0	0	0	0	0	0	0
10/8/2024 20:43	54502	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
10/8/2024 20:43	67805	WLAN_T1	0	0	0	0	0	0	-1.1	-1.16	0	0	0	0	0	0
10/8/2024 20:43	43301	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/8/2024 20:43	22602	KIMB_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
10/8/2024 20:43	62106	ELAN_T1	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
10/8/2024 20:43	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:44	21204	ECAR_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:44	13301	ORVI_T1	0	0	0	0	0	0	0.14	0.1	0	0	0	0	0	0
10/8/2024 20:44	21206	ECAR_T2	1	1	0	6.7	7	0.3	1.28	1.23	0	0	0	0	0	0
10/8/2024 20:44	54602	SUMM_T2	4	10	6	0.15	0.29	0.14	0	0	0	0	0	0	0	0
10/8/2024 20:44	54601	SUMM_T2	12	13	1	1.02	1.18	0.16	-2	-1.99	2	2	0	2100	2100	0
10/8/2024 20:44	65003	NEFF_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:44	43301	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/8/2024 20:44	43304	WATS_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
10/8/2024 20:44	13303	ORVI_T1	0	0	0	0	0	0	0.88	0.95	0	0	0	0	0	0
10/8/2024 20:44	57205	ROSS_T1	4	48	44	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/8/2024 20:44	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:44	67502	WEWI_T2	154	222	68	0.25	0.29	0.04	0	0	0	0	0	0	0	0
10/8/2024 20:44	16004	DORN_T1	0	0	0	0	0	0	-1.2	-1.24	1	1	0	1200	1200	0
10/8/2024 20:44	60201	ATGL_T2	115	108	-7	0.38	0.41	0.03	-0.44	-0.44	0	0	0	0	0	0
10/8/2024 20:44	54505	ENOL_T2	1	1	0	0.9	1	0.1	-1.37	-1.35	1	1	0	600	600	0
10/8/2024 20:44	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
10/8/2024 20:44	57203	ROSS_T1	116	530	414	0.11	0.16	0.05	0.7	0.72	0	0	0	0	0	0
10/8/2024 20:44	50501	MECH_T1	4	4	0	1.63	1.65	0.02	0	0	0	0	0	0	0	0
10/8/2024 20:44	54603	SUMM_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/8/2024 20:44	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
10/8/2024 20:44	64401	LAND_T1	0	0	0	0	0	0	-1.18	-1.18	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/8/2024 20:44	57201	ROSS_T1	274	392	118	0.41	0.41	0	0	0	0	0	0	0	0	0
10/8/2024 20:44	66505	SMAN_T2	3	3	0	0.5	0.97	0.47	-0.08	-0.15	1	1	0	900	900	0
10/8/2024 20:44	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:44	63305	GREE_T1	0	3	3	0	0.1	0.1	-1.28	-1.42	0	0	0	0	0	0
10/8/2024 20:44	50502	MECH_T1	182	176	-6	0.68	0.74	0.06	0	0	0	0	0	0	0	0
10/8/2024 20:44	65001	NEFF_T2	33	172	139	0.13	0.17	0.04	-1.05	-0.98	1	1	0	1200	1200	0
10/8/2024 20:44	46801	HEPB_T2	2	2	0	0.65	0.35	-0.3	0.5	0.48	0	0	0	0	0	0
10/8/2024 20:44	50505	MECH_T1	0	0	0	0	0	0	-0.98	-1.01	0	0	0	0	0	0
10/8/2024 20:44	67503	WEWI_T2	1	1	0	8.4	8.6	0.2	-0.54	-0.54	0	0	0	0	0	0
10/8/2024 20:44	43302	WATS_T2	3	4	1	0.4	0.98	0.58	0	0	0	0	0	0	0	0
10/8/2024 20:44	54502	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
10/8/2024 20:45	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
10/8/2024 20:45	41902	REED_T1	0	0	0	0	0	0	0.88	0.92	0	0	0	0	0	0
10/8/2024 20:45	14403	SSLA_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
10/8/2024 20:45	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.35	0	0	0	0	0	0
10/8/2024 20:45	44801	EDAN_T2	305	336	31	0.78	0.87	0.09	0	0	0	0	0	0	0	0
10/8/2024 20:45	50501	MECH_T1	4	4	0	1.65	1.68	0.03	0	0	0	0	0	0	0	0
10/8/2024 20:45	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/8/2024 20:45	65502	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:45	43301	WATS_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
10/8/2024 20:45	43302	WATS_T2	3	4	1	0.5	0.98	0.48	0	0	0	0	0	0	0	0
10/8/2024 20:45	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/8/2024 20:45	45502	DERR_T2	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
10/8/2024 20:45	40601	PIGR_T1	328	395	67	0.58	0.74	0.16	-0.2	-0.17	0	0	0	0	0	0
10/8/2024 20:45	44802	EDAN_T2	1	187	186	0.2	0.17	-0.03	-0.93	-0.91	0	0	0	0	0	0
10/8/2024 20:45	43304	WATS_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
10/8/2024 20:45	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:45	40602	PIGR_T1	1	5	4	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
10/8/2024 20:45	66505	SMAN_T2	3	3	0	0.53	0.97	0.44	0	0	0	0	0	0	0	0
10/8/2024 20:45	50502	MECH_T1	163	175	12	0.67	0.75	0.08	1471.99	1471.79	1	1	0	900	900	0
10/8/2024 20:45	41901	REED_T1	9	9	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:45	64801	MONE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/8/2024 20:45	64802	MONE_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/8/2024 20:45	45802	HEGI_T2	48	50	2	1.64	1.69	0.05	0	0	0	0	0	0	0	0
10/8/2024 20:45	55002	NEWP_T1	4	6	2	0.4	0.55	0.15	-0.27	-0.27	0	0	0	0	0	0
10/8/2024 20:45	67501	WEWI_T1	0	0	0	0	0	0	-0.62	-0.65	0	0	0	0	0	0
10/8/2024 20:45	64402	LAND_T2	0	0	0	0	0	0	-0.45	-0.42	1	1	0	600	600	0
10/8/2024 20:45	64704	LITI_T1	0	0	0	0	0	0	0.99	1	0	0	0	0	0	0
10/8/2024 20:45	10805	CHHI_T2	1	1	0	8	7.8	-0.2	-0.96	-0.88	0	0	0	0	0	0
10/8/2024 20:45	60701	BREC_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
10/8/2024 20:45	64403	LAND_T1	0	0	0	0	0	0	-1.53	-1.49	1	1	0	900	900	0
10/8/2024 20:46	13704	SCHN_T2	0	4	4	0	0.1	0.1	-0.37	-0.39	0	0	0	0	0	0
10/8/2024 20:46	40602	PIGR_T1	1	5	4	0.5	0.1	-0.4	0.65	0.63	0	0	0	0	0	0
10/8/2024 20:46	67603	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:46	59002	MIFF_T1	3	6	3	0.27	0.75	0.48	0	0	0	0	0	0	0	0
10/8/2024 20:46	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:46	12006	HATF_T1	0	0	0	0	0	0	0.14	1	1	0	-1	1200	0	-1200
10/8/2024 20:46	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.35	0	0	0	0	0	0
10/8/2024 20:46	50502	MECH_T1	163	175	12	0.67	0.75	0.08	0	0	0	0	0	0	0	0
10/8/2024 20:46	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/8/2024 20:46	13302	ORVI_T2	0	1	1	0	0.1	0.1	1.36	1.38	0	0	0	0	0	0
10/8/2024 20:46	50505	MECH_T1	0	0	0	0	0	0	-0.98	-1.01	0	0	0	0	0	0
10/8/2024 20:46	41502	FAIR_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
10/8/2024 20:46	66502	SMAN_T2	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
10/8/2024 20:46	60201	ATGL_T2	105	116	11	0.4	0.38	-0.02	-0.44	-0.44	0	0	0	0	0	0
10/8/2024 20:46	59003	MIFF_T1	1	1	0	0.6	0.4	-0.2	0.31	0.31	0	0	0	0	0	0
10/8/2024 20:46	66505	SMAN_T2	3	3	0	0.53	0.97	0.44	0	0	0	0	0	0	0	0
10/8/2024 20:46	16002	DORN_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
10/8/2024 20:46	67203	TEHI_T1	0	0	0	0	0	0	2.28	2.39	2	2	0	1500	1500	0
10/8/2024 20:46	14502	SCHO_T1	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
10/8/2024 20:46	67605	WARW_T1	32	50	18	0.47	0.66	0.19	-1.11	-1.13	0	0	0	0	0	0
10/8/2024 20:46	50501	MECH_T1	4	4	0	1.65	1.68	0.03	0	0	0	0	0	0	0	0
10/8/2024 20:46	65501	MOJO_T1	0	0	0	0	0	0	-1.14	-1.26	1	1	0	900	900	0
10/8/2024 20:46	15202	SFAR_T1	0	0	0	0	0	0	-0.4	-0.46	1	1	0	1200	1200	0
10/8/2024 20:46	40601	PIGR_T1	328	395	67	0.58	0.74	0.16	0	0	0	0	0	0	0	0
10/8/2024 20:47	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:47	14802	TREI_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
10/8/2024 20:47	43801	SWIL_T1	53	89	36	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
10/8/2024 20:47	16004	DORN_T1	0	0	0	0	0	0	-1.2	-1.24	1	1	0	1200	1200	0
10/8/2024 20:47	43304	WATS_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
10/8/2024 20:47	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
10/8/2024 20:47	41902	REED_T1	0	0	0	0	0	0	0.88	0.92	0	0	0	0	0	0
10/8/2024 20:47	15703	TANN_T2	1	1	0	5.3	5	-0.3	0	0	0	0	0	0	0	0
10/8/2024 20:47	40601	PIGR_T1	328	395	67	0.58	0.74	0.16	-0.2	-0.17	0	0	0	0	0	0
10/8/2024 20:47	40602	PIGR_T1	1	5	4	0.5	0.1	-0.4	0.65	0.63	0	0	0	0	0	0
10/8/2024 20:47	43802	SWIL_T1	1	2	1	0.2	0.15	-0.05	0.56	0.57	0	0	0	0	0	0
10/8/2024 20:47	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:47	66505	SMAN_T2	3	3	0	0.53	0.97	0.44	0	0	0	0	0	0	0	0
10/8/2024 20:47	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
10/8/2024 20:47	57106	SPHI_T2	3	3	0	1.5	1.5	0	0	0	0	0	0	0	0	0
10/8/2024 20:47	66504	SMAN_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
10/8/2024 20:47	43302	WATS_T2	3	4	1	0.5	0.98	0.48	-0.79	-0.81	2	2	0	1800	1800	0
10/8/2024 20:47	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 20:47	41901	REED_T1	9	9	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:47	14801	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:47	57104	SPHI_T2	1	1	0	1.3	1.2	-0.1	0.48	0.45	0	0	0	0	0	0
10/8/2024 20:47	44502	HAMI_T2	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
10/8/2024 20:47	57101	SPHI_T2	6	6	0	1.58	1.63	0.05	0	0	0	0	0	0	0	0
10/8/2024 20:47	62105	ELAN_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
10/8/2024 20:47	43301	WATS_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
10/8/2024 20:47	21501	CEAV_T2	0	0	0	0	0	0	1.09	1.1	0	0	0	0	0	0
10/8/2024 20:48	50103	HARR_T3	2	2	0	1.4	1.25	-0.15	0	0	0	0	0	0	0	0
10/8/2024 20:48	50102	HARR_T3	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:48	50202	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/8/2024 20:48	57403	SPAN_T1	99	159	60	0.32	0.37	0.05	0.03	0.03	0	0	0	0	0	0
10/8/2024 20:48	41902	REED_T1	0	0	0	0	0	0	0.88	0.92	0	0	0	0	0	0
10/8/2024 20:48	50201	HARR_T3	0	1	1	0	0.1	0.1	0	0	1	1	0	1200	1200	0
10/8/2024 20:48	10903	COOP_T2	0	33	33	0	0.17	0.17	0	0	0	0	0	0	0	0
10/8/2024 20:48	41901	REED_T1	9	9	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:48	57401	SPAN_T1	2	2	0	1	1.05	0.05	-0.29	-0.31	0	0	0	0	0	0
10/8/2024 20:48	59301	MCAL_T1	3	2	-1	0.83	0.8	-0.03	-1.87	-1.19	1	0	-1	600	0	-600
10/8/2024 20:48	46504	LOHA_T1	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/8/2024 20:48	59302	MCAL_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
10/8/2024 20:48	50105	HARR_T3	6	6	0	5.8	5.72	-0.08	0	0	0	0	0	0	0	0
10/8/2024 20:48	40602	PIGR_T1	1	5	4	0.5	0.1	-0.4	0.65	0.63	0	0	0	0	0	0
10/8/2024 20:48	40601	PIGR_T1	328	395	67	0.58	0.74	0.16	0	0	0	0	0	0	0	0
10/8/2024 20:48	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
10/8/2024 20:48	57203	ROSS_T1	204	581	377	0.13	0.17	0.04	0	0	0	0	0	0	0	0
10/8/2024 20:48	57201	ROSS_T1	305	420	115	0.41	0.44	0.03	-1.35	-1.3	0	0	0	0	0	0
10/8/2024 20:48	57205	ROSS_T1	4	58	54	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/8/2024 20:48	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:48	46506	LOHA_T1	3	3	0	5.6	5.53	-0.07	0	0	0	0	0	0	0	0
10/8/2024 20:48	50107	HARR_T3	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
10/8/2024 20:48	16005	DORN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:48	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:48	67201	TEHI_T1	0	0	0	0	0	0	-0.1	-0.2	1	1	0	900	900	0
10/8/2024 20:49	57203	ROSS_T1	204	581	377	0.13	0.17	0.04	0.35	0.36	0	0	0	0	0	0
10/8/2024 20:49	66505	SMAN_T2	3	3	0	0.53	0.97	0.44	0	0	0	0	0	0	0	0
10/8/2024 20:49	50623	CCTY_T2	5	5	0	5.14	5.54	0.4	0	0	0	0	0	0	0	0
10/8/2024 20:49	55002	NEWP_T1	4	6	2	0.4	0.55	0.15	-0.27	-0.27	0	0	0	0	0	0
10/8/2024 20:49	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
10/8/2024 20:49	50624	CCTY_T2	2	2	0	5.5	5.65	0.15	0	0	0	0	0	0	0	0
10/8/2024 20:49	46102	MACI_T1	40	60	20	0.19	0.18	-0.01	0.85	0.85	0	0	0	0	0	0
10/8/2024 20:49	48301	ORWI_T1	2	3	1	5.6	3.9	-1.7	0	0	1	1	0	900	900	0
10/8/2024 20:49	64305	LINC_T1	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
10/8/2024 20:49	54602	SUMM_T2	9	10	1	0.26	0.29	0.03	0	0	0	0	0	0	0	0
10/8/2024 20:49	57205	ROSS_T1	4	58	54	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/8/2024 20:49	57401	SPAN_T1	2	2	0	1	1.05	0.05	-0.59	-0.62	0	0	0	0	0	0
10/8/2024 20:49	57403	SPAN_T1	99	159	60	0.32	0.37	0.05	0	0	0	0	0	0	0	0
10/8/2024 20:49	66504	SMAN_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
10/8/2024 20:49	64303	LINC_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
10/8/2024 20:49	54601	SUMM_T2	13	13	0	1.18	1.12	-0.06	0	0	0	0	0	0	0	0
10/8/2024 20:49	50625	CCTY_T2	5	5	0	2.64	2.64	0	0	0	0	0	0	0	0	0
10/8/2024 20:49	54603	SUMM_T2	2	2	0	0.5	0.45	-0.05	-0.45	-0.45	1	1	0	900	900	0
10/8/2024 20:49	57201	ROSS_T1	305	420	115	0.41	0.44	0.03	0	0	0	0	0	0	0	0
10/8/2024 20:49	40602	PIGR_T1	1	5	4	0.5	0.1	-0.4	0.65	0.63	0	0	0	0	0	0
10/8/2024 20:49	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:49	40601	PIGR_T1	328	395	67	0.58	0.74	0.16	0	0	0	0	0	0	0	0
10/8/2024 20:50	44801	EDAN_T2	305	336	31	0.78	0.87	0.09	0	0	0	0	0	0	0	0
10/8/2024 20:50	67603	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:50	54603	SUMM_T2	2	2	0	0.5	0.45	-0.05	-0.45	-0.45	1	1	0	900	900	0
10/8/2024 20:50	58402	MORO_T1	0	0	0	0	0	0	0.41	0.39	1	1	0	900	900	0
10/8/2024 20:50	46504	LOHA_T1	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/8/2024 20:50	64203	KINZ_T1	0	0	0	0	0	0	-0.45	-0.48	1	1	0	600	600	0
10/8/2024 20:50	57205	ROSS_T1	4	58	54	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/8/2024 20:50	46506	LOHA_T1	3	3	0	5.6	5.53	-0.07	0	0	0	0	0	0	0	0
10/8/2024 20:50	64201	KINZ_T1	4	7	3	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
10/8/2024 20:50	54602	SUMM_T2	9	10	1	0.26	0.29	0.03	0	0	0	0	0	0	0	0
10/8/2024 20:50	63803	HEMP_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:50	64202	KINZ_T1	2	3	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:50	13303	ORVI_T1	0	0	0	0	0	0	1.76	1.9	0	0	0	0	0	0
10/8/2024 20:50	57203	ROSS_T1	204	581	377	0.13	0.17	0.04	0.35	0.36	0	0	0	0	0	0
10/8/2024 20:50	67605	WARW_T1	32	50	18	0.47	0.66	0.19	-1.11	-1.13	0	0	0	0	0	0
10/8/2024 20:50	64204	KINZ_T1	15	13	-2	0.16	0.2	0.04	0	0	0	0	0	0	0	0
10/8/2024 20:50	44802	EDAN_T2	1	187	186	0.2	0.17	-0.03	-0.93	-0.91	0	0	0	0	0	0
10/8/2024 20:50	54505	ENOL_T2	1	1	0	0.8	1	0.2	-1.37	-1.35	1	1	0	600	600	0
10/8/2024 20:50	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
10/8/2024 20:50	51904	COPA_T1	5	5	0	1.24	1.5	0.26	-1.07	-1.05	1	1	0	600	600	0
10/8/2024 20:50	42902	MIDD_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
10/8/2024 20:50	63501	HEID_TBK1-2	1	2	1	1	0.9	-0.1	0.38	0.4	0	0	0	0	0	0
10/8/2024 20:50	63801	HEMP_T1	0	4	4	0	0.1	0.1	-0.32	-0.22	0	0	0	0	0	0
10/8/2024 20:50	57201	ROSS_T1	305	420	115	0.41	0.44	0.03	0	0	0	0	0	0	0	0
10/8/2024 20:50	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/8/2024 20:50	54601	SUMM_T2	13	13	0	1.18	1.12	-0.06	0	0	0	0	0	0	0	0
10/8/2024 20:50	63804	HEMP_T1	1	5	4	5.1	1.08	-4.02	0	0	0	0	0	0	0	0
10/8/2024 20:50	65502	MOJO_T2	0	1	1	0	0	0	-1	-1.02	0	0	0	0	0	0
10/8/2024 20:51	40601	PIGR_T1	328	395	67	0.58	0.74	0.16	0	0	0	0	0	0	0	0
10/8/2024 20:51	65502	MOJO_T2	0	1	1	0	0	0	-1.02	-1.04	0	0	0	0	0	0
10/8/2024 20:51	58401	MORO_T1	0	0	0	0	0	0	-1.25	-0.63	1	0	-1	600	0	-600
10/8/2024 20:51	40602	PIGR_T1	1	5	4	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
10/8/2024 20:51	57205	ROSS_T1	4	58	54	0.1	0.12	0.02	0.06	0.05	0	0	0	0	0	0
10/8/2024 20:51	57203	ROSS_T1	204	581	377	0.13	0.17	0.04	0	0	0	0	0	0	0	0
10/8/2024 20:51	64401	LAND_T1	0	0	0	0	0	0	-1.18	-0.5	1	1	0	600	600	0
10/8/2024 20:51	55105	WERT_T1	0	0	0	0	0	0	-0.66	-0.63	1	1	0	900	900	0
10/8/2024 20:51	42902	MIDD_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
10/8/2024 20:51	13704	SCHN_T2	0	4	4	0	0.1	0.1	-0.37	-0.39	0	0	0	0	0	0
10/8/2024 20:51	57201	ROSS_T1	305	420	115	0.41	0.44	0.03	0	0	0	0	0	0	0	0
10/8/2024 20:51	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:51	63501	HEID_TBK1-2	1	2	1	1	0.9	-0.1	0.4	0.36	0	0	0	0	0	0
10/8/2024 20:51	65501	MOJO_T1	0	0	0	0	0	0	-1.26	-1.27	1	1	0	900	900	0
10/8/2024 20:52	57403	SPAN_T1	99	159	60	0.32	0.37	0.05	0.03	0.03	0	0	0	0	0	0
10/8/2024 20:52	54601	SUMM_T2	13	13	0	1.18	1.12	-0.06	-1.99	-2	2	2	0	2100	2100	0
10/8/2024 20:52	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 20:52	58401	MORO_T1	0	0	0	0	0	0	-0.63	-0.59	0	0	0	0	0	0
10/8/2024 20:52	16004	DORN_T1	0	0	0	0	0	0	-1.24	-1.26	1	1	0	1200	1200	0
10/8/2024 20:52	57205	ROSS_T1	4	58	54	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/8/2024 20:52	51904	COPA_T1	5	5	0	1.24	1.5	0.26	-1.05	-0.4	1	1	0	600	600	0
10/8/2024 20:52	54602	SUMM_T2	9	10	1	0.26	0.29	0.03	0	0	0	0	0	0	0	0
10/8/2024 20:52	66502	SMAN_T2	0	0	0	0	0	0	-0.09	-0.01	0	0	0	0	0	0
10/8/2024 20:52	57401	SPAN_T1	2	2	0	1	1.05	0.05	0	0	0	0	0	0	0	0
10/8/2024 20:52	57201	ROSS_T1	305	420	115	0.41	0.44	0.03	0	0	0	0	0	0	0	0
10/8/2024 20:52	66505	SMAN_T2	3	3	0	0.53	0.97	0.44	0	0	0	0	0	0	0	0
10/8/2024 20:52	57203	ROSS_T1	204	581	377	0.13	0.17	0.04	0.36	0.34	0	0	0	0	0	0
10/8/2024 20:52	54603	SUMM_T2	2	2	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
10/8/2024 20:52	46002	BERW_T2	0	0	0	0	0	0	-1.12	-1.13	1	1	0	900	900	0
10/8/2024 20:53	66505	SMAN_T2	3	3	0	0.53	0.97	0.44	0	0	0	0	0	0	0	0
10/8/2024 20:53	61801	EELI_T2	1	1	0	0.2	0.7	0.5	-0.94	-0.97	1	1	0	600	600	0
10/8/2024 20:53	66504	SMAN_T2	0	0	0	0	0	0	-0.6	-0.64	0	0	0	0	0	0
10/8/2024 20:53	63305	GREE_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:53	63302	GREE_T1	0	0	0	0	0	0	0.33	0.29	0	0	0	0	0	0
10/8/2024 20:54	50103	HARR_T3	2	2	0	1.4	1.25	-0.15	0	0	0	0	0	0	0	0
10/8/2024 20:54	50102	HARR_T3	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 20:54	64305	UNC_T1	2	2	0	0.25	0.55	0.3	-0.54	-0.6	0	0	0	0	0	0
10/8/2024 20:54	50105	HARR_T3	6	6	0	5.8	5.72	-0.08	0	0	0	0	0	0	0	0
10/8/2024 20:54	50202	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/8/2024 20:54	50107	HARR_T3	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
10/8/2024 20:54	50201	HARR_T3	0	1	1	0	0.1	0.1	0	0	1	1	0	1200	1200	0
10/8/2024 20:55	65003	NEFF_T2	1	4	3	0.1	0.23	0.13	-0.69	-0.88	1	1	0	600	600	0
10/8/2024 20:55	65001	NEFF_T2	43	195	152	0.13	0.19	0.06	0	0	0	0	0	0	0	0
10/8/2024 20:56	22001	BOHE_T1	0	3	3	0	0.1	0.1	-0.28	-0.23	1	1	0	600	600	0
10/8/2024 20:56	22003	BOHE_T1	197	247	50	0.22	0.63	0.41	0	0	0	0	0	0	0	0
10/8/2024 21:00	10801	CHHI_T1	0	0	0	0	0	0	-1.48	-1.46	2	2	0	1500	1500	0
10/8/2024 21:03	50506	MECH_T1	0	18	18	0	0.11	0.11	0	0	0	0	0	0	0	0
10/8/2024 21:03	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2024 21:03	50505	MECH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/8/2024 21:03	50502	MECH_T1	173	233	60	0.75	0.78	0.03	0	0	0	0	0	0	0	0
10/8/2024 21:03	50504	MECH_T1	0	33	33	0	0.14	0.14	0	0	0	0	0	0	0	0
10/8/2024 21:03	50501	MECH_T1	4	4	0	1.65	1.95	0.3	0.06	-0.17	0	0	0	0	0	0
10/8/2024 21:07	46801	HEPB_T2	2	2	0	0.35	0.95	0.6	0.47	0.48	0	0	0	0	0	0
10/8/2024 21:26	57401	SPAN_T1	2	83	81	1	0.17	-0.83	-0.38	-0.39	0	0	0	0	0	0
10/8/2024 21:26	57403	SPAN_T1	52	239	187	0.32	0.42	0.1	0	0	0	0	0	0	0	0
10/8/2024 21:40	24105	EHAZ_T1	4	4	0	6.33	6.3	-0.03	0	0	0	0	0	0	0	0
10/8/2024 21:40	24102	EHAZ_T1	1	1	0	2	1.1	-0.9	0.66	0.65	0	0	0	0	0	0
10/8/2024 21:57	57201	ROSS_T1	530	572	42	0.58	0.72	0.14	-1.41	-1.45	0	0	0	0	0	0
10/8/2024 21:57	57203	ROSS_T1	1289	2191	902	0.3	0.36	0.06	0	0	0	0	0	0	0	0
10/8/2024 21:57	57205	ROSS_T1	463	1042	579	0.17	0.29	0.12	0	0	0	0	0	0	0	0
10/8/2024 22:11	50202	HARR_T3	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
10/8/2024 22:11	50103	HARR_T3	2	2	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
10/8/2024 22:11	50105	HARR_T3	6	6	0	5.88	6.05	0.17	0	0	0	0	0	0	0	0
10/8/2024 22:11	50107	HARR_T3	1	1	0	7	7.2	0.2	0	0	0	0	0	0	0	0
10/8/2024 22:11	50201	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	1	1	0	1200	1200	0
10/8/2024 22:11	50102	HARR_T3	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/8/2024 22:48	28102	TWLA_T2	28	42	14	0.68	0.62	-0.06	0.17	0.16	0	0	0	0	0	0
10/9/2024 0:07	23203	HIRU_T2	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
10/9/2024 7:53	67603	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/9/2024 7:53	67605	WARW_T1	32	31	-1	0.5	0.54	0.04	0	0	0	0	0	0	0	0
10/9/2024 8:07	65205	PRIN_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
10/9/2024 8:07	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/9/2024 8:15	63501	HEID_TBK1-2	2	2	0	1.1	1.2	0.1	0.13	0.03	1	1	0	900	900	0
10/9/2024 8:16	55508	HERS_T2	2	3	1	1.3	1.7	0.4	-2.62	-2.58	1	1	0	1200	1200	0
10/9/2024 8:17	64902	MILL_T2	0	0	0	0	0	0	-0.84	-0.81	1	1	0	900	900	0
10/9/2024 8:17	64904	MILL_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
10/9/2024 8:18	63501	HEID_TBK1-2	2	2	0	1.1	1.2	0.1	0.13	0.03	1	1	0	900	900	0
10/9/2024 8:18	55507	HERS_T1	0	7	7	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 8:18	55503	HERS_T1	0	0	0	0	0	0	-1.63	-1.62	1	1	0	1200	1200	0
10/9/2024 8:18	55501	HERS_T1	0	52	52	0	0.53	0.53	0	0	0	0	0	0	0	0
10/9/2024 8:19	55501	HERS_T1	0	52	52	0	0.53	0.53	0	0	0	0	0	0	0	0
10/9/2024 8:19	55507	HERS_T1	0	7	7	0	0.2	0.2	0.13	0.11	0	0	0	0	0	0
10/9/2024 8:21	55002	NEWP_T1	6	7	1	0.52	1.01	0.49	-0.25	-0.23	0	0	0	0	0	0
10/9/2024 8:21	55001	NEWP_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/9/2024 8:22	55002	NEWP_T1	6	7	1	0.52	1.01	0.49	0	0	0	0	0	0	0	0
10/9/2024 8:22	55001	NEWP_T1	0	2	2	0	0.15	0.15	-0.17	-0.21	0	0	0	0	0	0
10/9/2024 8:26	67505	WEWI_T1	0	1	1	0	0.1	0.1	-0.38	-0.29	1	1	0	900	900	0
10/9/2024 8:26	67501	WEWI_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/9/2024 8:26	45901	AUBU_T1	0	0	0	0	0	0	1.46	1.58	0	0	0	0	0	0
10/9/2024 8:29	45501	DERR_T2	1	1	0	0.4	0.3	-0.1	1.81	1.69	4	4	0	3600	3600	0
10/9/2024 8:30	44801	EDAN_T2	248	225	-23	0.76	0.85	0.09	-1.75	-1.72	0	0	0	0	0	0
10/9/2024 8:30	44802	EDAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 8:30	40802	EXCH_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/9/2024 8:30	40801	EXCH_T2	0	3	3	0	0.17	0.17	-0.65	-0.69	1	1	0	1200	1200	0
10/9/2024 8:31	63501	HEID_TBK1-2	2	2	0	1	1.4	0.4	0.03	0.05	1	1	0	900	900	0
10/9/2024 8:36	65802	RTWN_T2	0	0	0	0	0	0	-0.22	-0.18	0	0	0	0	0	0
10/9/2024 8:37	46803	HEPB_T2	2	4	2	0.2	0.2	0	0.45	0.48	0	0	0	0	0	0
10/9/2024 8:37	46801	HEPB_T2	6	21	15	0.48	0.27	-0.21	0	0	0	0	0	0	0	0
10/9/2024 8:37	57201	ROSS_T1	30	95	65	0.2	0.18	-0.02	-1.24	-1.19	0	0	0	0	0	0
10/9/2024 8:37	65601	QVIL_T2	0	0	0	0	0	0	-1.28	-1.22	1	1	0	900	900	0
10/9/2024 8:38	50701	SMEC_T1	0	10	10	0	0.13	0.13	0.06	0.05	0	0	0	0	0	0
10/9/2024 8:38	67106	SPRI_T2	0	0	0	0	0	0	-1.35	-1.35	1	1	0	900	900	0
10/9/2024 8:39	67106	SPRI_T2	0	0	0	0	0	0	-1.35	-1.35	1	1	0	900	900	0
10/9/2024 8:40	46506	LOHA_T1	4	4	0	3.98	4.3	0.32	0	0	0	0	0	0	0	0
10/9/2024 8:40	46504	LOHA_T1	2	3	1	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
10/9/2024 8:40	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
10/9/2024 8:42	61801	EELI_T2	0	0	0	0	0	0	-0.87	-0.91	1	1	0	600	600	0
10/9/2024 8:42	60803	BUCK_T1	14	13	-1	0.49	0.22	-0.27	0	0	0	0	0	0	0	0
10/9/2024 8:42	60801	BUCK_T1	30	0	-30	0.22	0	-0.22	-0.02	-0.02	0	0	0	0	0	0
10/9/2024 8:43	40802	EXCH_T2	0	1	1	0	0.4	0.4	0.26	0.3	0	0	0	0	0	0
10/9/2024 8:43	40801	EXCH_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/9/2024 8:45	60404	DILL_T2	1	2	1	8.1	6.7	-1.4	-1.16	-1.07	2	2	0	2400	2400	0
10/9/2024 8:45	55508	HERS_T2	2	2	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
10/9/2024 8:48	46803	HEPB_T2	4	4	0	0.2	0.2	0	0.45	0.48	0	0	0	0	0	0
10/9/2024 8:48	40801	EXCH_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/9/2024 8:48	40802	EXCH_T2	1	1	0	0.1	0.4	0.3	0.26	0.3	0	0	0	0	0	0
10/9/2024 8:48	46801	HEPB_T2	18	21	3	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
10/9/2024 8:51	57002	WHHI_T2	3	3	0	0.13	0.17	0.04	-1.62	-1.58	0	0	0	0	0	0
10/9/2024 8:51	57001	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 8:54	57001	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 8:54	67601	WARW_T2	0	0	0	0	0	0	-0.56	-0.5	0	0	0	0	0	0
10/9/2024 8:54	57002	WHHI_T2	3	3	0	0.13	0.17	0.04	0	0	0	0	0	0	0	0
10/9/2024 8:57	45901	AUBU_T1	0	0	0	0	0	0	1.49	1.44	0	0	0	0	0	0
10/9/2024 8:58	67501	WEWI_T1	2	2	0	0.15	0.55	0.4	0	0	0	0	0	0	0	0
10/9/2024 8:58	67505	WEWI_T1	1	1	0	0.1	0.1	0	-0.35	-0.32	1	1	0	900	900	0
10/9/2024 8:58	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/9/2024 9:00	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/9/2024 9:06	54501	ENOL_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
10/9/2024 9:06	57002	WHHI_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/9/2024 9:06	54504	ENOL_T2	0	0	0	0	0	0	-1.19	-1.18	1	1	0	600	600	0
10/9/2024 9:06	54502	ENOL_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
10/9/2024 9:06	54505	ENOL_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
10/9/2024 9:06	57001	WHHI_T2	0	1	1	0	0	0	-1.69	-1.39	1	1	0	900	900	0
10/9/2024 9:06	57006	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 9:09	54505	ENOL_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
10/9/2024 9:09	54501	ENOL_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
10/9/2024 9:09	54503	ENOL_T2	0	0	0	0	0	0	-0.47	-0.46	1	1	0	600	600	0
10/9/2024 9:09	54502	ENOL_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
10/9/2024 9:10	42701	AUGU_T1	1	1	0	1.3	1.5	0.2	0	0	2	2	0	1800	1800	0
10/9/2024 9:13	64602	LEOL_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
10/9/2024 9:13	42701	AUGU_T1	1	1	0	1.3	1.5	0.2	0	0	2	2	0	1800	1800	0
10/9/2024 9:13	50103	HARR_T3	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
10/9/2024 9:13	50107	HARR_T3	1	1	0	7.7	7.2	-0.5	0	0	0	0	0	0	0	0
10/9/2024 9:13	50201	HARR_T3	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
10/9/2024 9:13	50105	HARR_T3	6	6	0	5.5	5.45	-0.05	0	0	0	0	0	0	0	0
10/9/2024 9:14	42701	AUGU_T1	1	1	0	1.3	1.5	0.2	0	0	2	2	0	1800	1800	0
10/9/2024 9:14	55508	HERS_T2	2	2	0	1.4	1.6	0.2	-2.59	-2.57	1	1	0	1200	1200	0
10/9/2024 9:16	54502	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
10/9/2024 9:16	54501	ENOL_T2	4	1	-3	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
10/9/2024 9:16	54506	ENOL_T2	0	0	0	0	0	0	0.44	0.45	1	1	0	600	600	0
10/9/2024 9:16	54505	ENOL_T2	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
10/9/2024 9:24	57401	SPAN_T1	73	67	-6	0.2	0.25	0.05	-0.58	-0.61	0	0	0	0	0	0
10/9/2024 9:24	57403	SPAN_T1	157	124	-33	0.41	0.23	-0.18	0	0	0	0	0	0	0	0
10/9/2024 9:25	57401	SPAN_T1	73	67	-6	0.2	0.25	0.05	-0.58	-0.61	0	0	0	0	0	0
10/9/2024 9:25	57403	SPAN_T1	157	124	-33	0.41	0.23	-0.18	0	0	0	0	0	0	0	0
10/9/2024 9:25	67103	SPRI_T1	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
10/9/2024 9:27	46001	BERW_T1	0	0	0	0	0	0	0.72	0.8	0	0	0	0	0	0
10/9/2024 9:29	46001	BERW_T1	0	0	0	0	0	0	0.72	0.8	0	0	0	0	0	0
10/9/2024 9:35	41902	REED_T1	0	1	1	0	0.2	0.2	0.98	1	0	0	0	0	0	0
10/9/2024 9:36	57403	SPAN_T1	124	170	46	0.23	0.5	0.27	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/9/2024 9:36	57401	SPAN_T1	65	291	226	0.24	0.36	0.12	-0.58	-0.61	0	0	0	0	0	0
10/9/2024 9:37	41902	REED_T1	0	1	1	0	0.2	0.2	1	0.92	0	0	0	0	0	0
10/9/2024 9:38	41902	REED_T1	0	1	1	0	0.2	0.2	1	0.92	0	0	0	0	0	0
10/9/2024 9:41	67503	WEWI_T2	1	1	0	9.5	9.5	0	-0.26	-0.26	0	0	0	0	0	0
10/9/2024 9:41	45502	DERR_T2	0	2	2	0	0	0	0.29	0.25	1	1	0	300	300	0
10/9/2024 9:41	67502	WEWI_T2	10	66	56	0.25	0.17	-0.08	-0.65	-0.49	0	0	0	0	0	0
10/9/2024 9:41	45501	DERR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/9/2024 9:42	67501	WEWI_T1	4	5	1	0.48	0.56	0.08	0	0	0	0	0	0	0	0
10/9/2024 9:42	67502	WEWI_T2	10	66	56	0.25	0.17	-0.08	-0.32	-0.24	0	0	0	0	0	0
10/9/2024 9:42	67503	WEWI_T2	1	1	0	9.5	9.5	0	0	0	0	0	0	0	0	0
10/9/2024 9:43	60201	ATGL_T2	88	0	-88	0.25	0	-0.25	-0.33	0.64	0	0	0	0	0	0
10/9/2024 9:45	63802	HEMP_T1	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
10/9/2024 9:45	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
10/9/2024 9:45	67503	WEWI_T2	1	1	0	9.5	9.6	0.1	0	0	0	0	0	0	0	0
10/9/2024 9:45	63803	HEMP_T1	1	5	4	0.3	0.18	-0.12	0.04	0.04	0	0	0	0	0	0
10/9/2024 9:45	67502	WEWI_T2	65	131	66	0.17	0.22	0.05	-0.32	-0.24	0	0	0	0	0	0
10/9/2024 9:45	61001	DONV_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
10/9/2024 9:48	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
10/9/2024 9:48	63803	HEMP_T1	1	5	4	0.3	0.18	-0.12	0.04	0.04	0	0	0	0	0	0
10/9/2024 9:55	61002	DONV_T2	0	0	0	0	0	0	-1.26	-1.21	2	2	0	1200	1200	0
10/9/2024 9:57	46001	BERW_T1	0	0	0	0	0	0	0.85	0.82	0	0	0	0	0	0
10/9/2024 9:58	44801	EDAN_T2	201	192	-9	0.92	0.96	0.04	0	0	0	0	0	0	0	0
10/9/2024 9:58	44802	EDAN_T2	2	3	1	0.5	0.23	-0.27	-0.85	-0.86	0	0	0	0	0	0
10/9/2024 9:59	67605	WARW_T1	12	15	3	0.62	0.56	-0.06	-1.1	-1.08	0	0	0	0	0	0
10/9/2024 9:59	57101	SPHI_T2	6	6	0	0.8	1.07	0.27	0	0	0	0	0	0	0	0
10/9/2024 9:59	44801	EDAN_T2	201	192	-9	0.92	0.96	0.04	0	0	0	0	0	0	0	0
10/9/2024 9:59	57104	SPHI_T2	1	3	2	1.5	1	-0.5	-0.48	-0.47	0	0	0	0	0	0
10/9/2024 9:59	61502	EPET_T1	0	0	0	0	0	0	-1.1	-0.96	0	0	0	0	0	0
10/9/2024 9:59	61801	EELI_T2	0	0	0	0	0	0	-0.86	-0.81	1	1	0	600	600	0
10/9/2024 9:59	57106	SPHI_T2	3	4	1	0.93	1.18	0.25	0	0	0	0	0	0	0	0
10/9/2024 9:59	44802	EDAN_T2	2	3	1	0.5	0.23	-0.27	-1.7	-1.72	0	0	0	0	0	0
10/9/2024 10:00	67502	WEWI_T2	35	157	122	0.21	0.22	0.01	0	0	0	0	0	0	0	0
10/9/2024 10:00	66504	SMAN_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
10/9/2024 10:00	66501	SMAN_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
10/9/2024 10:00	17002	RIRO_T2	12	8	-4	0.28	0.36	0.08	0.67	0.7	0	0	0	0	0	0
10/9/2024 10:00	57103	SPHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 10:00	54502	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
10/9/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0	0.76	0	0	0	0	0	0
10/9/2024 10:00	59003	MIFF_T1	0	1	1	0	0.5	0.5	0.33	-0.36	0	0	0	0	0	0
10/9/2024 10:00	57106	SPHI_T2	4	6	2	1.15	0.95	-0.2	0	0	0	0	0	0	0	0
10/9/2024 10:00	59001	MIFF_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/9/2024 10:00	48902	FOSP_T2	3	0	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
10/9/2024 10:00	48901	FOSP_T2	0	0	0	0	0	0	-0.02	-0.06	2	2	0	1200	1200	0
10/9/2024 10:00	57006	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/9/2024 10:00	59002	MIFF_T1	0	6	6	0	0.3	0.3	0	0	0	0	0	0	0	0
10/9/2024 10:00	44801	EDAN_T2	188	203	15	0.96	0.87	-0.09	0	0	0	0	0	0	0	0
10/9/2024 10:00	54501	ENOL_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
10/9/2024 10:00	57101	SPHI_T2	6	8	2	1.03	1.21	0.18	0	0	0	0	0	0	0	0
10/9/2024 10:00	57104	SPHI_T2	2	2	0	2.05	2.05	0	-0.48	-0.47	0	0	0	0	0	0
10/9/2024 10:00	66502	SMAN_T2	0	0	0	0	0	0	0.49	0.4	0	0	0	0	0	0
10/9/2024 10:00	54504	ENOL_T2	0	0	0	0	0	0	-1.18	-1.2	1	1	0	600	600	0
10/9/2024 10:00	44802	EDAN_T2	3	2	-1	0.23	0.25	0.02	-1.7	-1.72	0	0	0	0	0	0
10/9/2024 10:00	54505	ENOL_T2	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
10/9/2024 10:00	57002	WHHI_T2	3	5	2	0.2	0.28	0.08	-1.58	-1.55	0	0	0	0	0	0
10/9/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	0.47	0.51	1	1	0	600	600	0
10/9/2024 10:00	15603	NSTR_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
10/9/2024 10:00	67503	WEWI_T2	1	1	0	9.2	9.6	0.4	-0.26	-0.27	0	0	0	0	0	0
10/9/2024 10:02	48902	FOSP_T2	3	0	-3	0.47	0	-0.47	-1.23	0.52	2	0	-2	2400	0	-2400
10/9/2024 10:06	57006	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/9/2024 10:06	57002	WHHI_T2	3	5	2	0.2	0.28	0.08	-1.58	-1.55	0	0	0	0	0	0
10/9/2024 10:07	57006	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/9/2024 10:07	55001	NEWP_T1	0	2	2	0	0.2	0.2	-0.16	-0.12	0	0	0	0	0	0
10/9/2024 10:07	57002	WHHI_T2	3	5	2	0.2	0.28	0.08	-1.55	-1.51	0	0	0	0	0	0
10/9/2024 10:07	55002	NEWP_T1	13	56	43	0.72	0.42	-0.3	0	0	0	0	0	0	0	0
10/9/2024 10:09	41902	REED_T1	1	1	0	0.2	0.2	0	1.94	1.92	0	0	0	0	0	0
10/9/2024 10:09	57002	WHHI_T2	3	5	2	0.2	0.28	0.08	0	0	0	0	0	0	0	0
10/9/2024 10:09	57006	WHHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/9/2024 10:09	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 10:09	57001	WHHI_T2	0	0	0	0	0	0	-0.08	0	1	1	0	900	900	0
10/9/2024 10:10	67201	TEHI_T1	0	0	0	0	0	0	0.95	0.99	1	1	0	900	900	0
10/9/2024 10:10	15001	BLMO_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/9/2024 10:11	57203	ROSS_T1	2	3	1	0.15	0.13	-0.02	0.33	0.32	0	0	0	0	0	0
10/9/2024 10:11	42102	FRAI_T1	0	0	0	0	0	0	0	0	2	0	-2	1800	0	-1800
10/9/2024 10:11	57205	ROSS_T1	5	8	3	0.42	0.51	0.09	0	0	0	0	0	0	0	0
10/9/2024 10:11	57201	ROSS_T1	103	131	28	0.17	0.22	0.05	0	0	0	0	0	0	0	0
10/9/2024 10:12	45501	DERR_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/9/2024 10:12	45502	DERR_T2	0	0	0	0	0	0	0.2	0.26	1	1	0	300	300	0
10/9/2024 10:12	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
10/9/2024 10:13	46001	BERW_T1	0	0	0	0	0	0	0.82	0.73	0	0	0	0	0	0
10/9/2024 10:14	46004	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 10:14	57205	ROSS_T1	5	8	3	0.42	0.51	0.09	0.23	0.21	0	0	0	0	0	0
10/9/2024 10:14	14705	TREX_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
10/9/2024 10:14	46002	BERW_T2	0	0	0	0	0	0	-0.57	-0.64	1	1	0	900	900	0
10/9/2024 10:14	45501	DERR_T2	0	1	1	0	0.5	0.5	1.89	1.58	4	4	0	3600	3600	0
10/9/2024 10:14	57203	ROSS_T1	2	3	1	0.15	0.13	-0.02	0.33	0.32	0	0	0	0	0	0
10/9/2024 10:14	14704	TREX_T1	1	1	0	3.3	3.9	0.6	0	0	0	0	0	0	0	0
10/9/2024 10:14	57201	ROSS_T1	103	131	28	0.17	0.22	0.05	0	0	0	0	0	0	0	0
10/9/2024 10:17	61801	EELI_T2	0	1	1	0	0.1	0.1	-0.81	-0.8	1	1	0	600	600	0
10/9/2024 10:17	64305	LINC_T1	0	0	0	0	0	0	-0.11	-0.18	0	0	0	0	0	0
10/9/2024 10:18	25402	LAHA_T2	0	0	0	0	0	0	-0.49	-0.45	0	0	0	0	0	0
10/9/2024 10:20	44701	MUNC_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 10:20	44702	MUNC_T2	85	39	-46	0.23	0.14	-0.09	0	0	0	0	0	0	0	0
10/9/2024 10:20	44703	MUNC_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
10/9/2024 10:21	54601	SUMM_T2	10	11	1	0.43	0.55	0.12	-0.92	-0.9	1	1	0	1200	1200	0
10/9/2024 10:22	57002	WHHI_T2	2	5	3	0.15	0.32	0.17	0	0	0	0	0	0	0	0
10/9/2024 10:22	13701	SCHN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/9/2024 10:22	57004	WHHI_T2	0	0	0	0	0	0	-0.49	-0.45	0	0	0	0	0	0
10/9/2024 10:22	65503	MOJO_T2	0	0	0	0	0	0	-0.13	-0.08	0	0	0	0	0	0
10/9/2024 10:22	57006	WHHI_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/9/2024 10:22	13704	SCHN_T2	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
10/9/2024 10:22	54601	SUMM_T2	10	11	1	0.43	0.55	0.12	-0.9	-0.88	1	1	0	1200	1200	0
10/9/2024 10:23	54601	SUMM_T2	10	11	1	0.43	0.55	0.12	-0.9	-0.88	1	1	0	1200	1200	0
10/9/2024 10:24	15703	TANN_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
10/9/2024 10:24	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.46	0	0	0	0	0	0
10/9/2024 10:26	14801	TREI_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
10/9/2024 10:26	14802	TREI_T2	0	4	4	0	0.25	0.25	0.34	0.31	0	0	0	0	0	0
10/9/2024 10:27	21206	ECAR_T2	1	1	0	6.8	7.1	0.3	0.41	0.4	0	0	0	0	0	0
10/9/2024 10:27	46802	HEPB_T1	3	5	2	0.67	0.52	-0.15	-0.3	-0.31	0	0	0	0	0	0
10/9/2024 10:27	14801	TREI_T2	0	2	2	0	0.5	0.5	0.54	0.56	0	0	0	0	0	0
10/9/2024 10:27	14802	TREI_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
10/9/2024 10:27	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 10:28	57205	ROSS_T1	4	8	4	0.58	0.65	0.07	0	0	0	0	0	0	0	0
10/9/2024 10:28	57201	ROSS_T1	62	153	91	0.18	0.22	0.04	-1.1	-1.1	0	0	0	0	0	0
10/9/2024 10:28	57203	ROSS_T1	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
10/9/2024 10:29	61801	EELI_T2	0	1	1	0	0.1	0.1	-0.8	-0.81	1	1	0	600	600	0
10/9/2024 10:30	57203	ROSS_T1	3	6	3	0.13	0.13	0	0.32	0.32	0	0	0	0	0	0
10/9/2024 10:30	63801	HEMP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/9/2024 10:30	63803	HEMP_T1	2	1	-1	0.2	0.3	0.1	0.1	0.08	0	0	0	0	0	0
10/9/2024 10:30	57205	ROSS_T1	8	8	0	0.51	0.65	0.14	0	0	0	0	0	0	0	0
10/9/2024 10:30	57201	ROSS_T1	131	132	1	0.22	0.22	0	0	0	0	0	0	0	0	0
10/9/2024 10:30	22101	EDEL_T2	0	0	0	0	0	0	0.39	0.36	1	1	0	1200	1200	0
10/9/2024 10:30	63804	HEMP_T1	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
10/9/2024 10:31	21601	EYNO_T1	0	0	0	0	0	0	0	0.13	0	0	0	0	0	0
10/9/2024 10:32	63801	HEMP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/9/2024 10:32	57201	ROSS_T1	131	132	1	0.22	0.22	0	0	0	0	0	0	0	0	0
10/9/2024 10:32	57203	ROSS_T1	3	6	3	0.13	0.13	0	0.32	0.32	0	0	0	0	0	0
10/9/2024 10:32	57205	ROSS_T1	8	8	0	0.51	0.65	0.14	0	0	0	0	0	0	0	0
10/9/2024 10:32	61001	DONV_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
10/9/2024 10:32	63804	HEMP_T1	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
10/9/2024 10:32	63803	HEMP_T1	2	1	-1	0.2	0.3	0.1	0.05	0.04	0	0	0	0	0	0
10/9/2024 10:33	46501	LOHA_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
10/9/2024 10:33	46504	LOHA_T1	2	3	1	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
10/9/2024 10:33	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 10:33	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
10/9/2024 10:33	46506	LOHA_T1	3	3	0	5.63	5.6	-0.03	0	0	0	0	0	0	0	0
10/9/2024 10:34	47203	FAIO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 10:35	64904	MILL_T1	1	1	0	0.1	0.2	0.1	0.41	0.42	0	0	0	0	0	0
10/9/2024 10:37	43801	SWIL_T1	10	14	4	0.64	0.49	-0.15	0	0	0	0	0	0	0	0
10/9/2024 10:37	43802	SWIL_T1	0	0	0	0	0	0	-0.13	-0.13	1	1	0	600	600	0
10/9/2024 10:37	58401	MORO_T1	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
10/9/2024 10:38	15703	TANN_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
10/9/2024 10:38	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
10/9/2024 10:38	58401	MORO_T1	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
10/9/2024 10:40	16101	BING_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
10/9/2024 10:41	15703	TANN_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
10/9/2024 10:41	15203	SFAR_T2	2	2	0	0.35	0.5	0.15	-1.3	-1.36	0	0	0	0	0	0
10/9/2024 10:41	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
10/9/2024 10:42	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 10:43	41301	FISH_T1	4	4	0	1.15	1.2	0.05	-0.04	-0.05	0	0	0	0	0	0
10/9/2024 10:43	42701	AUGU_T1	1	1	0	1.3	1.4	0.1	0	0	2	2	0	1800	1800	0
10/9/2024 10:43	53501	EVIL_T2	1	1	0	0.1	0.1	0	0.06	-0.01	4	4	0	2400	2400	0
10/9/2024 10:43	41305	FISH_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
10/9/2024 10:44	46004	BERW_T2	1	2	1	0.2	0.1	-0.1	-0.15	-0.17	0	0	0	0	0	0
10/9/2024 10:44	53501	EVIL_T2	1	1	0	0.1	0.1	0	0.03	-0.01	2	2	0	1200	1200	0
10/9/2024 10:44	46002	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 10:44	41301	FISH_T1	4	4	0	1.15	1.2	0.05	-0.04	-0.05	0	0	0	0	0	0
10/9/2024 10:44	45902	AUBU_T1	0	1	1	0	0.4	0.4	0.07	0.04	1	1	0	600	600	0
10/9/2024 10:44	41305	FISH_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
10/9/2024 10:45	41301	FISH_T1	4	4	0	1.2	1.28	0.08	-0.04	-0.05	0	0	0	0	0	0
10/9/2024 10:45	41305	FISH_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
10/9/2024 10:46	22001	BOHE_T1	0	7	7	0	0.14	0.14	0.16	0.15	0	0	0	0	0	0
10/9/2024 10:46	53501	EVIL_T2	0	1	1	0	0.1	0.1	0.03	-0.01	2	2	0	1200	1200	0
10/9/2024 10:46	22003	BOHE_T1	244	268	24	0.48	0.53	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/9/2024 10:46	45902	AUBU_T1	1	1	0	0.3	0.4	0.1	0.07	0.04	1	1	0	600	600	0
10/9/2024 10:47	57205	ROSS_T1	8	5	-3	0.65	0.92	0.27	0	0	0	0	0	0	0	0
10/9/2024 10:47	57203	ROSS_T1	6	2	-4	0.13	0.15	0.02	0.32	0.33	0	0	0	0	0	0
10/9/2024 10:47	57201	ROSS_T1	132	58	-74	0.22	0.22	0	0	0	0	0	0	0	0	0
10/9/2024 10:47	53501	EVIL_T2	0	1	1	0	0.1	0.1	0.03	-0.01	2	2	0	1200	1200	0
10/9/2024 10:48	63501	HEID_TBK1-2	5	6	1	0.54	0.65	0.11	0.59	0.81	3	3	0	2700	2700	0
10/9/2024 10:48	53501	EVIL_T2	0	1	1	0	0.1	0.1	0.03	-0.01	2	2	0	1200	1200	0
10/9/2024 10:49	63501	HEID_TBK1-2	5	6	1	0.54	0.65	0.11	0.4	0.54	2	2	0	1800	1800	0
10/9/2024 10:50	63501	HEID_TBK1-2	5	6	1	0.54	0.65	0.11	0.2	0.27	1	1	0	900	900	0
10/9/2024 10:50	54502	ENOL_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
10/9/2024 10:50	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 10:50	54505	ENOL_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
10/9/2024 10:50	54504	ENOL_T2	1	0	-1	0.1	0	-0.1	-1.19	-1.2	1	1	0	600	600	0
10/9/2024 10:51	54603	SUMM_T2	0	0	0	0	0	0	-0.24	-0.22	1	1	0	900	900	0
10/9/2024 10:51	54505	ENOL_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
10/9/2024 10:51	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 10:51	54504	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/9/2024 10:51	54601	SUMM_T2	10	11	1	0.37	0.49	0.12	0	0	0	0	0	0	0	0
10/9/2024 10:51	54502	ENOL_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
10/9/2024 10:52	54505	ENOL_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
10/9/2024 10:52	54501	ENOL_T2	0	1	1	0	0.1	0.1	0.11	0	0	0	0	0	0	0
10/9/2024 10:52	54502	ENOL_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
10/9/2024 10:52	54504	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/9/2024 10:53	54505	ENOL_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
10/9/2024 10:53	54501	ENOL_T2	0	1	1	0	0.1	0.1	0.1	0.11	0	0	0	0	0	0
10/9/2024 10:53	54504	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/9/2024 10:53	54502	ENOL_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
10/9/2024 10:54	50202	HARR_T3	0	10	10	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 10:54	54603	SUMM_T2	0	0	0	0	0	0	-0.22	-0.26	1	1	0	900	900	0
10/9/2024 10:54	50107	HARR_T3	1	1	0	7.4	7.9	0.5	0	0	0	0	0	0	0	0
10/9/2024 10:54	50105	HARR_T3	6	6	0	5.67	5.67	0	0	0	0	0	0	0	0	0
10/9/2024 10:54	54601	SUMM_T2	10	11	1	0.37	0.49	0.12	0	0	0	0	0	0	0	0
10/9/2024 10:54	50103	HARR_T3	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
10/9/2024 10:54	50201	HARR_T3	1	1	0	0.5	0.5	0	0	0	1	1	0	1200	1200	0
10/9/2024 10:56	50202	HARR_T3	0	10	10	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 10:56	20401	ASHF_T2	3	4	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
10/9/2024 10:56	50201	HARR_T3	1	1	0	0.5	0.5	0	0	0	1	1	0	1200	1200	0
10/9/2024 10:56	50107	HARR_T3	1	1	0	7.4	7.9	0.5	0	0	0	0	0	0	0	0
10/9/2024 10:56	20403	ASHF_T2	0	3	3	0	0.37	0.37	1.43	1.25	0	0	0	0	0	0
10/9/2024 10:56	27605	PRI_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
10/9/2024 10:56	50105	HARR_T3	6	6	0	5.67	5.67	0	0	0	0	0	0	0	0	0
10/9/2024 10:56	50103	HARR_T3	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
10/9/2024 10:57	20403	ASHF_T2	0	3	3	0	0.37	0.37	1.43	1.25	0	0	0	0	0	0
10/9/2024 10:57	20401	ASHF_T2	3	4	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
10/9/2024 11:04	54601	SUMM_T2	5	11	6	0.54	0.49	-0.05	-0.88	-0.89	1	1	0	1200	1200	0
10/9/2024 11:05	65604	QVIL_T2	0	0	0	0	0	0	0.24	0.31	0	0	0	0	0	0
10/9/2024 11:05	65603	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 11:05	65601	QVIL_T2	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
10/9/2024 11:07	57201	ROSS_T1	34	58	24	0.21	0.22	0.01	-1.07	-1.06	0	0	0	0	0	0
10/9/2024 11:07	57203	ROSS_T1	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
10/9/2024 11:07	57205	ROSS_T1	5	6	1	0.8	0.82	0.02	0	0	0	0	0	0	0	0
10/9/2024 11:09	67401	WAKE_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
10/9/2024 11:09	67402	WAKE_T2	0	0	0	0	0	0	0.37	0.34	1	1	0	600	600	0
10/9/2024 11:11	59102	WALK_T2	2	5	3	0.45	0.42	-0.03	0	0	0	0	0	0	0	0
10/9/2024 11:11	46004	BERW_T2	1	4	3	3.4	0.2	-3.2	-0.07	-0.07	0	0	0	0	0	0
10/9/2024 11:11	59101	WALK_T2	1	2	1	3.2	0.85	-2.35	2.18	1.9	0	0	0	0	0	0
10/9/2024 11:11	46002	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 11:12	44801	EDAN_T2	166	175	9	0.73	0.96	0.23	0	0	0	0	0	0	0	0
10/9/2024 11:12	67603	WARW_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
10/9/2024 11:12	44802	EDAN_T2	1	3	2	0.2	0.27	0.07	-0.8	-0.8	0	0	0	0	0	0
10/9/2024 11:12	67605	WARW_T1	18	18	0	0.57	0.64	0.07	-1.01	-1.03	0	0	0	0	0	0
10/9/2024 11:14	67603	WARW_T1	1	2	1	0.2	0.35	0.15	-0.03	0	0	0	0	0	0	0
10/9/2024 11:14	67605	WARW_T1	18	18	0	0.57	0.64	0.07	0	0	0	0	0	0	0	0
10/9/2024 11:14	42701	AUGU_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
10/9/2024 11:15	44802	EDAN_T2	1	4	3	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
10/9/2024 11:15	44801	EDAN_T2	173	175	2	0.87	0.95	0.08	-1.67	-1.68	0	0	0	0	0	0
10/9/2024 11:15	60101	COCA_T1	1	1	0	0.1	0.5	0.4	0.24	0.22	0	0	0	0	0	0
10/9/2024 11:17	44802	EDAN_T2	1	4	3	0.3	0.23	-0.07	-1.6	-1.6	0	0	0	0	0	0
10/9/2024 11:17	22001	BOHE_T1	5	5	0	0.16	0.2	0.04	0	0	0	0	0	0	0	0
10/9/2024 11:17	44801	EDAN_T2	173	175	2	0.87	0.95	0.08	0	0	0	0	0	0	0	0
10/9/2024 11:17	22003	BOHE_T1	260	253	-7	0.48	0.53	0.05	-0.21	-0.21	0	0	0	0	0	0
10/9/2024 11:18	44801	EDAN_T2	173	175	2	0.87	0.95	0.08	-1.67	-1.68	0	0	0	0	0	0
10/9/2024 11:18	44802	EDAN_T2	1	4	3	0.3	0.23	-0.07	-0.8	-0.8	0	0	0	0	0	0
10/9/2024 11:19	64203	KINZ_T1	0	0	0	0	0	0	0.98	1.15	2	2	0	900	900	0
10/9/2024 11:19	64204	KINZ_T1	66	68	2	0.74	1.06	0.32	0	0	0	0	0	0	0	0
10/9/2024 11:19	64202	KINZ_T1	3	3	0	0.33	0.67	0.34	0	0	0	0	0	0	0	0
10/9/2024 11:24	13701	SCHN_T2	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
10/9/2024 11:24	13704	SCHN_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
10/9/2024 11:25	41902	REED_T1	3	2	-1	0.13	0.25	0.12	0	0	0	0	0	0	0	0
10/9/2024 11:25	57205	ROSS_T1	5	6	1	0.92	0.82	-0.1	0	0	0	0	0	0	0	0
10/9/2024 11:25	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 11:25	57203	ROSS_T1	2	2	0	0.15	0.15	0	0.32	0.33	0	0	0	0	0	0
10/9/2024 11:25	67503	WEWI_T2	3	2	-1	3.4	4.8	1.4	0	0	0	0	0	0	0	0
10/9/2024 11:25	67502	WEWI_T2	231	151	-80	0.29	0.25	-0.04	-0.21	-0.21	0	0	0	0	0	0
10/9/2024 11:25	57201	ROSS_T1	57	28	-29	0.22	0.23	0.01	0	0	0	0	0	0	0	0
10/9/2024 11:26	67503	WEWI_T2	3	2	-1	3.4	4.8	1.4	0	0	0	0	0	0	0	0
10/9/2024 11:26	67502	WEWI_T2	231	151	-80	0.29	0.25	-0.04	-0.21	-0.21	0	0	0	0	0	0
10/9/2024 11:27	67503	WEWI_T2	3	2	-1	3.4	4.8	1.4	0	0	0	0	0	0	0	0
10/9/2024 11:27	67502	WEWI_T2	231	151	-80	0.29	0.25	-0.04	-0.21	-0.21	0	0	0	0	0	0
10/9/2024 11:28	67605	WARW_T1	16	19	3	0.62	0.67	0.05	-1.03	-1.06	0	0	0	0	0	0
10/9/2024 11:28	67502	WEWI_T2	231	151	-80	0.29	0.25	-0.04	-0.21	-0.21	0	0	0	0	0	0
10/9/2024 11:28	67603	WARW_T1	2	2	0	0.2	0.55	0.35	0	0	0	0	0	0	0	0
10/9/2024 11:28	67503	WEWI_T2	3	2	-1	3.4	4.8	1.4	0	0	0	0	0	0	0	0
10/9/2024 11:29	67505	WEWI_T1	3	3	0	0.23	0.33	0.1	0	0	0	0	0	0	0	0
10/9/2024 11:29	67501	WEWI_T1	8	7	-1	0.73	0.83	0.1	-0.49	-0.37	0	0	0	0	0	0
10/9/2024 11:30	67501	WEWI_T1	7	15	8	0.81	0.55	-0.26	0	0	0	0	0	0	0	0
10/9/2024 11:30	67505	WEWI_T1	2	3	1	0.35	0.4	0.05	-0.23	-0.26	1	1	0	900	900	0
10/9/2024 11:31	67503	WEWI_T2	2	8	6	4.8	1.46	-3.34	-0.48	-0.5	0	0	0	0	0	0
10/9/2024 11:31	66302	MCGO_T2	11	126	115	0.28	0.17	-0.11	-1.21	-1.17	1	1	0	600	600	0
10/9/2024 11:31	66303	MCGO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 11:31	66504	SMAN_T2	1	2	1	1	0.55	-0.45	0	0	0	0	0	0	0	0
10/9/2024 11:31	67502	WEWI_T2	131	244	113	0.24	0.32	0.08	0	0	0	0	0	0	0	0
10/9/2024 11:31	66502	SMAN_T2	1	7	6	0.1	0.43	0.33	0.3	0.3	0	0	0	0	0	0
10/9/2024 11:31	66501	SMAN_T2	2	2	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
10/9/2024 11:32	66504	SMAN_T2	1	2	1	1	0.55	-0.45	0	0	0	0	0	0	0	0
10/9/2024 11:32	66502	SMAN_T2	1	7	6	0.1	0.43	0.33	0	0	0	0	0	0	0	0
10/9/2024 11:32	66501	SMAN_T2	2	2	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
10/9/2024 11:32	67503	WEWI_T2	2	8	6	4.8	1.46	-3.34	-0.24	-0.25	0	0	0	0	0	0
10/9/2024 11:32	67502	WEWI_T2	131	244	113	0.24	0.32	0.08	0	0	0	0	0	0	0	0
10/9/2024 11:33	66502	SMAN_T2	1	7	6	0.1	0.43	0.33	0	0	0	0	0	0	0	0
10/9/2024 11:33	66505	SMAN_T2	0	0	0	0	0	0	0.54	0.71	1	1	0	900	900	0
10/9/2024 11:33	66504	SMAN_T2	1	2	1	1	0.55	-0.45	0	0	0	0	0	0	0	0
10/9/2024 11:33	66501	SMAN_T2	2	2	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
10/9/2024 11:35	54202	PENN_T2	4	4	0	0.58	0.63	0.05	0	0	0	0	0	0	0	0
10/9/2024 11:35	64802	MONE_T2	9	97	88	0.38	0.22	-0.16	0.27	0.21	0	0	0	0	0	0
10/9/2024 11:35	54206	PENN_T2	0	1	1	0	0.1	0.1	0.16	0.04	0	0	0	0	0	0
10/9/2024 11:35	64801	MONE_T2	4	5	1	0.5	0.58	0.08	0	0	0	0	0	0	0	0
10/9/2024 11:36	66303	MCGO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 11:36	66302	MCGO_T2	11	126	115	0.28	0.17	-0.11	-1.17	-1.13	1	1	0	600	600	0
10/9/2024 11:36	57403	SPAN_T1	163	173	10	0.32	0.36	0.04	0	0	0	0	0	0	0	0
10/9/2024 11:36	57401	SPAN_T1	168	276	108	0.31	0.38	0.07	-0.47	-0.51	0	0	0	0	0	0
10/9/2024 11:37	57403	SPAN_T1	163	173	10	0.32	0.36	0.04	0	0.03	0	0	0	0	0	0
10/9/2024 11:37	57401	SPAN_T1	168	276	108	0.31	0.38	0.07	0	0	0	0	0	0	0	0
10/9/2024 11:38	54202	PENN_T2	4	4	0	0.58	0.63	0.05	0	0	0	0	0	0	0	0
10/9/2024 11:38	57401	SPAN_T1	168	276	108	0.31	0.38	0.07	-0.51	-0.49	0	0	0	0	0	0
10/9/2024 11:38	57403	SPAN_T1	163	173	10	0.32	0.36	0.04	0	0	0	0	0	0	0	0
10/9/2024 11:38	54206	PENN_T2	0	1	1	0	0.1	0.1	0.02	0.15	0	0	0	0	0	0
10/9/2024 11:39	57403	SPAN_T1	163	173	10	0.32	0.36	0.04	0	0	0	0	0	0	0	0
10/9/2024 11:39	57401	SPAN_T1	168	276	108	0.31	0.38	0.07	-1.02	-0.98	0	0	0	0	0	0
10/9/2024 11:40	57403	SPAN_T1	163	173	10	0.32	0.36	0.04	0	0.03	0	0	0	0	0	0
10/9/2024 11:40	57401	SPAN_T1	168	276	108	0.31	0.38	0.07	-1.53	-1.47	0	0	0	0	0	0
10/9/2024 11:40	24901	WHHA_T1	1	1	0	0.1	0.3	0.2	1.81	1.79	0	0	0	0	0	0
10/9/2024 11:41	57401	SPAN_T1	168	276	108	0.31	0.38	0.07	-0.51	-0.49	0	0	0	0	0	0
10/9/2024 11:41	57403	SPAN_T1	163	173	10	0.32	0.36	0.04	0	0	0	0	0	0	0	0
10/9/2024 11:42	57403	SPAN_T1	163	173	10	0.32	0.36	0.04	0.01	0.05	0	0	0	0	0	0
10/9/2024 11:42	57401	SPAN_T1	168	276	108	0.31	0.38	0.07	-0.51	-0.49	0	0	0	0	0	0
10/9/2024 11:43	57403	SPAN_T1	163	173	10	0.32	0.36	0.04	0	0	0	0	0	0	0	0
10/9/2024 11:43	57401	SPAN_T1	168	276	108	0.31	0.38	0.07	0	0	0	0	0	0	0	0
10/9/2024 11:45	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/9/2024 11:49	13303	ORVI_T1	3	0	-3	0.2	0	-0.2	-0.19	-0.19	0	0	0	0	0	0
10/9/2024 11:51	54603	SUMM_T2	0	0	0	0	0	0	-0.18	-0.21	1	1	0	900	900	0
10/9/2024 11:51	54601	SUMM_T2	10	10	0	0.31	0.38	0.07	0	0	0	0	0	0	0	0
10/9/2024 11:52	65503	MOJO_T2	2	10	8	0.75	0.43	-0.32	-0.98	-0.95	1	1	0	900	900	0
10/9/2024 11:55	60701	BREC_T1	0	2	2	0	0.25	0.25	-0.22	-0.09	2	2	0	1200	1200	0
10/9/2024 11:58	41301	FISH_T1	5	5	0	1.18	1.24	0.06	0	0	0	0	0	0	0	0
10/9/2024 11:58	41305	FISH_T1	1	1	0	0.6	1.2	0.6	0.12	0.11	0	0	0	0	0	0
10/9/2024 11:59	60701	BREC_T1	0	2	2	0	0.25	0.25	-0.45	-0.18	4	4	0	2400	2400	0
10/9/2024 12:00	60701	BREC_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
10/9/2024 12:02	42001	MNVL_T2	239	254	15	0.64	0.75	0.11	-0.33	-0.36	0	0	0	0	0	0
10/9/2024 12:02	42002	MNVL_T2	1	1	0	5.5	5.1	-0.4	0	0	0	0	0	0	0	0
10/9/2024 12:04	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 12:05	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 12:06	42002	MNVL_T2	1	1	0	5.5	5.1	-0.4	0	0	0	0	0	0	0	0
10/9/2024 12:06	42001	MNVL_T2	239	254	15	0.64	0.75	0.11	-0.36	-0.38	0	0	0	0	0	0
10/9/2024 12:07	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 12:08	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 12:10	46001	BERW_T1	1	1	0	0.1	0.6	0.5	0.68	0.64	0	0	0	0	0	0
10/9/2024 12:10	43402	BENT_T1	1	1	0	0.5	0.5	0	-0.41	-0.37	1	1	0	600	600	0
10/9/2024 12:10	46005	BERW_T1	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
10/9/2024 12:12	46004	BERW_T2	3	4	1	0.37	0.75	0.38	-0.15	-0.19	0	0	0	0	0	0
10/9/2024 12:12	43402	BENT_T1	1	1	0	0.5	0.5	0	-0.41	-0.37	1	1	0	600	600	0
10/9/2024 12:12	46005	BERW_T1	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
10/9/2024 12:12	46001	BERW_T1	1	1	0	0.1	0.6	0.5	0.68	0.64	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/9/2024 12:12	46002	BERW_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
10/9/2024 12:13	66501	SMAN_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
10/9/2024 12:13	66502	SMAN_T2	7	6	-1	0.43	0.48	0.05	0	0	0	0	0	0	0	0
10/9/2024 12:13	66504	SMAN_T2	2	2	0	0.55	0.65	0.1	-0.32	-0.32	0	0	0	0	0	0
10/9/2024 12:15	66504	SMAN_T2	1	2	1	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
10/9/2024 12:15	66501	SMAN_T2	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
10/9/2024 12:15	66502	SMAN_T2	6	5	-1	0.42	0.42	0	0	0	0	0	0	0	0	0
10/9/2024 12:24	14403	SSLA_T1	2	3	1	0.4	0.77	0.37	0.82	0.63	0	0	0	0	0	0
10/9/2024 12:24	14401	SSLA_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/9/2024 12:24	14402	SSLA_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/9/2024 12:24	14404	SSLA_T1	7	4	-3	0.39	0.43	0.04	0	0	0	0	0	0	0	0
10/9/2024 12:25	14801	TREI_T2	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
10/9/2024 12:25	14802	TREI_T2	0	4	4	0	0.35	0.35	0.29	0.39	0	0	0	0	0	0
10/9/2024 12:26	14801	TREI_T2	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
10/9/2024 12:26	14204	EALL_T2	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
10/9/2024 12:26	14802	TREI_T2	0	4	4	0	0.35	0.35	0.29	0.39	0	0	0	0	0	0
10/9/2024 12:27	14802	TREI_T2	0	4	4	0	0.35	0.35	0.29	0.39	0	0	0	0	0	0
10/9/2024 12:27	14801	TREI_T2	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
10/9/2024 12:28	60101	COCA_T1	1	1	0	0.7	0.6	-0.1	0.25	0.23	0	0	0	0	0	0
10/9/2024 12:28	67402	WAKE_T2	0	0	0	0	0	0	0.33	0.36	1	1	0	600	600	0
10/9/2024 12:28	67401	WAKE_T2	2	2	0	1	0.75	-0.25	0	0	0	0	0	0	0	0
10/9/2024 12:33	13503	MCMI_T2	1	1	0	0.2	0.4	0.2	-0.01	-0.01	0	0	0	0	0	0
10/9/2024 12:33	45802	HEGI_T2	0	14	14	0	0.34	0.34	0	0	0	0	0	0	0	0
10/9/2024 12:34	64305	LINC_T1	1	1	0	0.4	0.1	-0.3	-0.22	-0.13	0	0	0	0	0	0
10/9/2024 12:36	65502	MOJO_T2	0	0	0	0	0	0	0.01	-0.34	0	0	0	0	0	0
10/9/2024 12:36	13503	MCMI_T2	1	1	0	0.2	0.4	0.2	-0.01	-0.01	0	0	0	0	0	0
10/9/2024 12:36	65503	MOJO_T2	10	19	9	0.58	0.52	-0.06	0	0	0	0	0	0	0	0
10/9/2024 12:38	47402	PENS_T1	4	2	-2	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
10/9/2024 12:38	47403	PENS_T1	0	7	7	0	0.99	0.99	0	0	0	0	0	0	0	0
10/9/2024 12:38	47401	PENS_T1	4	3	-1	0.9	1.2	0.3	0.48	0.51	0	0	0	0	0	0
10/9/2024 12:39	10101	ALLE_T3	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
10/9/2024 12:39	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 12:39	42701	AUGU_T1	1	2	1	1.2	0.9	-0.3	0	0	2	2	0	1800	1800	0
10/9/2024 12:39	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 12:39	14403	SSLA_T1	3	3	0	0.37	0.7	0.33	0.63	0.63	0	0	0	0	0	0
10/9/2024 12:39	14404	SSLA_T1	4	2	-2	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
10/9/2024 12:39	14402	SSLA_T1	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
10/9/2024 12:40	57002	WHHI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 12:40	57004	WHHI_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
10/9/2024 12:41	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 12:41	42701	AUGU_T1	1	2	1	1.2	0.9	-0.3	0	0	4	4	0	3600	3600	0
10/9/2024 12:41	10101	ALLE_T3	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
10/9/2024 12:43	60801	BUCK_T1	3	6	3	0.2	0.27	0.07	-0.15	-0.16	0	0	0	0	0	0
10/9/2024 12:43	60803	BUCK_T1	10	16	6	0.18	0.32	0.14	-1.16	-1.15	1	1	0	600	600	0
10/9/2024 12:43	10801	OHHI_T1	5	6	1	0.28	1.03	0.75	-0.67	-1.3	1	2	1	900	1500	600
10/9/2024 12:44	24105	EHAZ_T1	4	4	0	5.73	6.03	0.3	0	0	0	0	0	0	0	0
10/9/2024 12:44	60801	BUCK_T1	3	6	3	0.2	0.27	0.07	-0.3	-0.32	0	0	0	0	0	0
10/9/2024 12:44	60803	BUCK_T1	10	16	6	0.18	0.32	0.14	-2.32	-2.3	2	2	0	1200	1200	0
10/9/2024 12:44	40702	FFLD_T1	3	1	-2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/9/2024 12:44	24101	EHAZ_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
10/9/2024 12:44	24102	EHAZ_T1	0	0	0	0	0	0	0.6	0.54	0	0	0	0	0	0
10/9/2024 12:44	40703	FFLD_T1	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/9/2024 12:44	40701	FFLD_T1	49	22	-27	0.32	0.15	-0.17	0	0	0	0	0	0	0	0
10/9/2024 12:44	24104	EHAZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/9/2024 12:46	28701	HAMI_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
10/9/2024 12:46	28704	HAMI_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
10/9/2024 12:46	53501	EVIL_T2	0	0	0	0	0	0	0.01	-0.1	2	2	0	1200	1200	0
10/9/2024 12:46	60803	BUCK_T1	16	3	-13	0.32	0.13	-0.19	-1.16	-1.15	1	1	0	600	600	0
10/9/2024 12:46	60801	BUCK_T1	6	2	-4	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
10/9/2024 12:47	60803	BUCK_T1	16	3	-13	0.32	0.13	-0.19	-1.16	-1.15	1	1	0	600	600	0
10/9/2024 12:47	60801	BUCK_T1	6	2	-4	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
10/9/2024 12:48	64704	LITI_T1	1	0	-1	0.2	0	-0.2	0.34	0.27	1	1	0	600	600	0
10/9/2024 12:49	47402	PENS_T1	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
10/9/2024 12:49	64704	LITI_T1	1	0	-1	0.2	0	-0.2	0.34	0.27	1	1	0	600	600	0
10/9/2024 12:49	47401	PENS_T1	3	4	1	1.2	0.88	-0.32	0.48	0.51	0	0	0	0	0	0
10/9/2024 12:49	47403	PENS_T1	2	7	5	0.75	1.03	0.28	0	0	0	0	0	0	0	0
10/9/2024 12:50	42903	MIDD_T2	0	1	1	0	0.5	0.5	1.67	2.07	0	0	0	0	0	0
10/9/2024 12:50	42902	MIDD_T2	2	4	2	0.25	0.6	0.35	0	0	0	0	0	0	0	0
10/9/2024 12:52	54601	SUMM_T2	10	8	-2	0.33	0.28	-0.05	-0.84	-0.77	1	1	0	1200	1200	0
10/9/2024 12:54	47402	PENS_T1	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
10/9/2024 12:54	47403	PENS_T1	2	7	5	0.75	1.03	0.28	0	0	0	0	0	0	0	0
10/9/2024 12:54	47401	PENS_T1	3	4	1	1.2	0.88	-0.32	0.51	0.55	0	0	0	0	0	0
10/9/2024 12:56	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 12:59	24702	FLND_T2	1	3	2	0.1	0.87	0.77	0.29	0.25	1	1	0	1200	1200	0
10/9/2024 13:01	14402	SSLA_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/9/2024 13:01	14403	SSLA_T1	2	4	2	0.85	0.43	-0.42	0	0	0	0	0	0	0	0
10/9/2024 13:01	14404	SSLA_T1	2	4	2	0.3	0.3	0	0	0	0	0	0	0	0	0
10/9/2024 13:01	24702	FLND_T2	3	2	-1	0.87	1.15	0.28	0	0	0	0	0	0	0	0
10/9/2024 13:01	24701	FLND_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
10/9/2024 13:01	14401	SSLA_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/9/2024 13:04	46801	HEPB_T2	2	2	0	0.45	0.2	-0.25	0.51	0.56	0	0	0	0	0	0
10/9/2024 13:04	46803	HEPB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/9/2024 13:05	65501	MOJO_T1	0	0	0	0	0	0	-0.85	-0.97	1	1	0	900	900	0
10/9/2024 13:06	17002	RIRO_T2	5	3	-2	0.44	0.37	-0.07	0.66	0.63	0	0	0	0	0	0
10/9/2024 13:07	57403	SPAN_T1	52	133	81	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
10/9/2024 13:07	57401	SPAN_T1	30	100	70	0.3	0.37	0.07	-0.47	-0.45	0	0	0	0	0	0
10/9/2024 13:08	67201	TEHI_T1	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
10/9/2024 13:08	57403	SPAN_T1	52	133	81	0.33	0.28	-0.05	0.05	0.03	0	0	0	0	0	0
10/9/2024 13:08	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 13:08	67203	TEHI_T1	0	0	0	0	0	0	2.68	2.55	3	3	0	2100	2100	0
10/9/2024 13:08	57401	SPAN_T1	30	100	70	0.3	0.37	0.07	0	0	0	0	0	0	0	0
10/9/2024 13:09	57401	SPAN_T1	30	100	70	0.3	0.37	0.07	-0.47	-0.45	0	0	0	0	0	0
10/9/2024 13:09	57403	SPAN_T1	52	133	81	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
10/9/2024 13:09	21901	HUMB_T1	0	1	1	0	0.2	0.2	-0.96	-0.97	0	0	0	0	0	0
10/9/2024 13:12	67605	WARW_T1	17	17	0	0.57	0.48	-0.09	0	0	0	0	0	0	0	0
10/9/2024 13:12	67603	WARW_T1	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
10/9/2024 13:12	57401	SPAN_T1	30	100	70	0.3	0.37	0.07	-0.47	-0.45	0	0	0	0	0	0
10/9/2024 13:12	57403	SPAN_T1	52	133	81	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
10/9/2024 13:13	57403	SPAN_T1	52	133	81	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
10/9/2024 13:13	57401	SPAN_T1	30	100	70	0.3	0.37	0.07	-0.47	-0.45	0	0	0	0	0	0
10/9/2024 13:15	10101	ALLE_T3	1	1	0	2.9	0	-2.9	0	0	0	0	0	0	0	0
10/9/2024 13:15	67603	WARW_T1	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
10/9/2024 13:15	67605	WARW_T1	17	13	-4	0.48	0.45	-0.03	-1.04	-1.03	0	0	0	0	0	0
10/9/2024 13:15	57401	SPAN_T1	74	83	9	0.27	0.4	0.13	-0.47	-0.45	0	0	0	0	0	0
10/9/2024 13:15	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 13:15	57403	SPAN_T1	129	102	-27	0.27	0.29	0.02	0	0	0	0	0	0	0	0
10/9/2024 13:16	64305	LINC_T1	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
10/9/2024 13:18	45701	LIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 13:18	45702	LIND_T2	2	2	0	0.85	0.75	-0.1	-1.73	-1.73	0	0	0	0	0	0
10/9/2024 13:20	64802	MONE_T2	13	11	-2	0.65	0.67	0.02	0.14	0.18	0	0	0	0	0	0
10/9/2024 13:20	64801	MONE_T2	3	3	0	0.67	0.57	-0.1	0	0	0	0	0	0	0	0
10/9/2024 13:21	40602	PIGR_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
10/9/2024 13:21	64802	MONE_T2	13	11	-2	0.65	0.67	0.02	0	0	0	0	0	0	0	0
10/9/2024 13:21	40603	PIGR_T1	2	0	-2	0.85	0	-0.85	0	0	0	0	0	0	0	0
10/9/2024 13:21	64801	MONE_T2	3	3	0	0.67	0.57	-0.1	0.28	0.28	0	0	0	0	0	0
10/9/2024 13:21	40601	PIGR_T1	158	171	13	0.5	0.54	0.04	0.26	0.27	0	0	0	0	0	0
10/9/2024 13:21	55101	WERT_T1	0	0	0	0	0	0	-0.6	-0.67	1	1	0	600	600	0
10/9/2024 13:22	13303	ORVI_T1	7	6	-1	0.21	0.18	-0.03	0.04	-0.13	0	0	0	0	0	0
10/9/2024 13:22	40603	PIGR_T1	2	0	-2	0.85	0	-0.85	0	0	0	0	0	0	0	0
10/9/2024 13:22	40601	PIGR_T1	158	171	13	0.5	0.54	0.04	0.27	0.15	0	0	0	0	0	0
10/9/2024 13:22	40602	PIGR_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
10/9/2024 13:23	50201	HARR_T3	2	2	0	0.3	0.3	0	0	0	1	1	0	1200	1200	0
10/9/2024 13:23	40603	PIGR_T1	2	0	-2	0.85	0	-0.85	0	0	0	0	0	0	0	0
10/9/2024 13:23	40601	PIGR_T1	158	171	13	0.5	0.54	0.04	0	0	0	0	0	0	0	0
10/9/2024 13:23	40602	PIGR_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
10/9/2024 13:23	50107	HARR_T3	1	1	0	7.2	7.3	0.1	0	0	0	0	0	0	0	0
10/9/2024 13:23	50105	HARR_T3	6	6	0	6.13	5.95	-0.18	0	0	0	0	0	0	0	0
10/9/2024 13:24	40603	PIGR_T1	2	0	-2	0.85	0	-0.85	0	0	0	0	0	0	0	0
10/9/2024 13:24	40602	PIGR_T1	1	1	0	1.4	1.2	-0.2	0.81	0.78	0	0	0	0	0	0
10/9/2024 13:24	40601	PIGR_T1	158	171	13	0.5	0.54	0.04	0	0	0	0	0	0	0	0
10/9/2024 13:25	40602	PIGR_T1	1	1	0	1.4	1.2	-0.2	1.61	1.56	0	0	0	0	0	0
10/9/2024 13:25	40601	PIGR_T1	158	171	13	0.5	0.54	0.04	0	0	0	0	0	0	0	0
10/9/2024 13:25	40603	PIGR_T1	2	0	-2	0.85	0	-0.85	0	0	0	0	0	0	0	0
10/9/2024 13:26	42701	AUGU_T1	3	2	-1	0.43	0.65	0.22	0	0	2	2	0	1800	1800	0
10/9/2024 13:27	16101	BING_T2	1	2	1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
10/9/2024 13:27	16103	BING_T2	0	1	1	0	0.2	0.2	-0.89	-0.91	2	2	0	1500	1500	0
10/9/2024 13:27	42701	AUGU_T1	3	2	-1	0.43	0.65	0.22	0	0	2	2	0	1800	1800	0
10/9/2024 13:27	16102	BING_T2	0	5	5	0	0.42	0.42	0	0	0	0	0	0	0	0
10/9/2024 13:28	42701	AUGU_T1	3	2	-1	0.43	0.65	0.22	0	0	2	2	0	1800	1800	0
10/9/2024 13:28	61701	ELIZ_T1	2	2	0	3.25	3.25	0	0.46	0.49	0	0	0	0	0	0
10/9/2024 13:31	46205	DANV_T2	0	0	0	0	0	0	-0.7	-0.69	1	1	0	1200	1200	0
10/9/2024 13:31	46203	DANV_T2	2	0	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
10/9/2024 13:33	66502	SMAN_T2	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
10/9/2024 13:33	66504	SMAN_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/9/2024 13:33	66501	SMAN_T2	1	2	1	0.1	0.75	0.65	0	0	0	0	0	0	0	0
10/9/2024 13:39	20401	ASHF_T2	2	1	-1	0.85	1	0.15	0	0	0	0	0	0	0	0
10/9/2024 13:39	20403	ASHF_T2	13	14	1	0.65	0.45	-0.2	1.01	1.1	0	0	0	0	0	0
10/9/2024 13:40	13302	ORVI_T2	4	3	-1	0.78	0.97	0.19	1.45	1.36	0	0	0	0	0	0
10/9/2024 13:40	20403	ASHF_T2	13	14	1	0.65	0.45	-0.2	1.01	1.1	0	0	0	0	0	0
10/9/2024 13:40	20401	ASHF_T2	2	1	-1	0.85	1	0.15	0	0	0	0	0	0	0	0
10/9/2024 13:46	40701	FFLD_T1	34	44	10	0.36	0.36	0	0	0	0	0	0	0	0	0
10/9/2024 13:46	40703	FFLD_T1	2	4	2	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
10/9/2024 13:46	40702	FFLD_T1	4	5	1	0.2	0.26	0.06	-0.63	-0.57	1	1	0	1200	1200	0
10/9/2024 13:48	45802	HEGI_T2	0	3	3	0	0.17	0.17	1.27	1.08	0	0	0	0	0	0
10/9/2024 13:49	46102	MACI_T1	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
10/9/2024 13:49	66502	SMAN_T2	0	9	9	0	0.39	0.39	0	0	0	0	0	0	0	0
10/9/2024 13:49	45802	HEGI_T2	0	3	3	0	0.17	0.17	1.27	1.08	0	0	0	0	0	0
10/9/2024 13:49	66504	SMAN_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/9/2024 13:49	66501	SMAN_T2	2	2	0	0.4	1	0.6	0	0	0	0	0	0	0	0
10/9/2024 13:52	64302	LINC_T2	0	0	0	0	0	0	1.17	1.21	0	0	0	0	0	0
10/9/2024 13:55	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
10/9/2024 13:55	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.38	0	0	0	0	0	0
10/9/2024 14:01	67503	WEWI_T2	3	3	0	3.4	3.33	-0.07	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/9/2024 14:01	67502	WEWI_T2	73	17	-56	0.27	0.43	0.16	-0.22	-0.26	0	0	0	0	0	0
10/9/2024 14:02	67503	WEWI_T2	3	3	0	3.4	3.33	-0.07	0	0	0	0	0	0	0	0
10/9/2024 14:02	13303	ORVI_T1	0	0	0	0	0	0	1.28	1.18	0	0	0	0	0	0
10/9/2024 14:02	42903	MIDD_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
10/9/2024 14:02	67502	WEWI_T2	73	17	-56	0.27	0.43	0.16	-0.22	-0.26	0	0	0	0	0	0
10/9/2024 14:02	42902	MIDD_T2	6	4	-2	0.37	0.6	0.23	-0.32	-0.32	0	0	0	0	0	0
10/9/2024 14:03	42902	MIDD_T2	6	4	-2	0.37	0.6	0.23	0	0	0	0	0	0	0	0
10/9/2024 14:03	52002	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 14:03	42903	MIDD_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
10/9/2024 14:03	52004	LING_T2	5	5	0	2.94	2.56	-0.38	0.4	0.37	0	0	0	0	0	0
10/9/2024 14:05	42903	MIDD_T2	1	1	0	0.2	0.5	0.3	0.26	0.57	1	1	0	1200	1200	0
10/9/2024 14:05	65004	NEFF_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/9/2024 14:05	42902	MIDD_T2	6	4	-2	0.37	0.6	0.23	0	0	0	0	0	0	0	0
10/9/2024 14:05	65003	NEFF_T2	3	3	0	0.3	0.43	0.13	0	0	0	0	0	0	0	0
10/9/2024 14:05	65005	NEFF_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
10/9/2024 14:05	65001	NEFF_T2	0	0	0	0	0	0	-0.76	-0.78	1	1	0	1200	1200	0
10/9/2024 14:07	54602	SUMM_T2	0	0	0	0	0	0	-2.41	-2.41	1	1	0	600	600	0
10/9/2024 14:07	54601	SUMM_T2	10	10	0	0.33	0.35	0.02	0	0	0	0	0	0	0	0
10/9/2024 14:11	24602	VARD_T2	2	4	2	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
10/9/2024 14:11	24603	VARD_T2	9	7	-2	0.62	0.86	0.24	0	0	0	0	0	0	0	0
10/9/2024 14:16	22002	BOHE_T1	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
10/9/2024 14:16	22003	BOHE_T1	238	239	1	0.35	0.38	0.03	0	0	0	0	0	0	0	0
10/9/2024 14:16	45802	HEGI_T2	0	41	41	0	0.88	0.88	1.33	1.32	0	0	0	0	0	0
10/9/2024 14:16	22001	BOHE_T1	1	2	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
10/9/2024 14:18	66504	SMAN_T2	0	1	1	0	0.2	0.2	-0.67	-0.68	0	0	0	0	0	0
10/9/2024 14:18	66501	SMAN_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
10/9/2024 14:18	66502	SMAN_T2	8	12	4	0.43	0.36	-0.07	1	0.77	0	0	0	0	0	0
10/9/2024 14:19	66502	SMAN_T2	8	12	4	0.43	0.36	-0.07	0	0	0	0	0	0	0	0
10/9/2024 14:19	66504	SMAN_T2	0	1	1	0	0.2	0.2	-0.33	-0.34	0	0	0	0	0	0
10/9/2024 14:19	66501	SMAN_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
10/9/2024 14:20	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 14:20	66502	SMAN_T2	8	12	4	0.43	0.36	-0.07	0	0	0	0	0	0	0	0
10/9/2024 14:20	66501	SMAN_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
10/9/2024 14:20	45802	HEGI_T2	0	41	41	0	0.88	0.88	1.33	1.32	0	0	0	0	0	0
10/9/2024 14:21	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 14:21	66501	SMAN_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
10/9/2024 14:21	66502	SMAN_T2	8	12	4	0.43	0.36	-0.07	0.51	0.64	0	0	0	0	0	0
10/9/2024 14:23	66501	SMAN_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
10/9/2024 14:23	14801	TREI_T2	2	4	2	0.85	0.55	-0.3	0	0	0	0	0	0	0	0
10/9/2024 14:23	66502	SMAN_T2	8	12	4	0.43	0.36	-0.07	0.26	0.32	0	0	0	0	0	0
10/9/2024 14:23	14802	TREI_T2	3	4	1	0.67	0.38	-0.29	0.39	0.38	0	0	0	0	0	0
10/9/2024 14:23	13704	SCHN_T2	1	0	-1	0.2	0	-0.2	-0.29	-0.29	0	0	0	0	0	0
10/9/2024 14:23	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 14:31	14801	TREI_T2	4	3	-1	0.5	0.57	0.07	0	0	0	0	0	0	0	0
10/9/2024 14:31	14802	TREI_T2	4	2	-2	0.38	0.45	0.07	0.39	0.38	0	0	0	0	0	0
10/9/2024 14:36	66501	SMAN_T2	2	2	0	0.95	1	0.05	0	0	0	0	0	0	0	0
10/9/2024 14:36	66502	SMAN_T2	11	9	-2	0.34	0.44	0.1	0	0	0	0	0	0	0	0
10/9/2024 14:36	66504	SMAN_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/9/2024 14:36	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/9/2024 14:41	50105	HARR_T3	6	6	0	5.63	5.75	0.12	0	0	0	0	0	0	0	0
10/9/2024 14:41	50201	HARR_T3	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
10/9/2024 14:41	50107	HARR_T3	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
10/9/2024 14:41	57402	SPAN_T2	0	0	0	0	0	0	-1.21	-1.21	0	0	0	0	0	0
10/9/2024 14:42	14802	TREI_T2	4	2	-2	0.38	0.45	0.07	0.38	0.41	0	0	0	0	0	0
10/9/2024 14:42	66504	SMAN_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/9/2024 14:42	66501	SMAN_T2	2	2	0	0.95	1	0.05	0	0	0	0	0	0	0	0
10/9/2024 14:42	66502	SMAN_T2	11	9	-2	0.34	0.44	0.1	0	0	0	0	0	0	0	0
10/9/2024 14:42	14801	TREI_T2	4	3	-1	0.5	0.57	0.07	0	0	0	0	0	0	0	0
10/9/2024 14:42	57401	SPAN_T1	14	9	-5	0.51	0.61	0.1	-0.19	-0.17	0	0	0	0	0	0
10/9/2024 14:42	57403	SPAN_T1	153	141	-12	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
10/9/2024 14:44	14801	TREI_T2	4	3	-1	0.5	0.57	0.07	0	0	0	0	0	0	0	0
10/9/2024 14:44	20201	JERM_T1	0	0	0	0	0	0	-0.31	-0.3	2	2	0	2400	2400	0
10/9/2024 14:44	14802	TREI_T2	4	2	-2	0.38	0.45	0.07	0.38	0.41	0	0	0	0	0	0
10/9/2024 14:45	63803	HEMP_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/9/2024 14:45	63801	HEMP_T1	6	4	-2	0.45	0.5	0.05	0	0	0	0	0	0	0	0
10/9/2024 14:45	63804	HEMP_T1	1	1	0	5.6	5.8	0.2	1.04	1.02	0	0	0	0	0	0
10/9/2024 14:47	63801	HEMP_T1	6	4	-2	0.45	0.5	0.05	0.16	0.31	0	0	0	0	0	0
10/9/2024 14:47	63803	HEMP_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/9/2024 14:47	63804	HEMP_T1	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
10/9/2024 14:50	40603	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/9/2024 14:50	40602	PIGR_T1	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
10/9/2024 14:50	40601	PIGR_T1	165	163	-2	0.56	0.45	-0.11	0	0	0	0	0	0	0	0
10/9/2024 14:50	45802	HEGI_T2	41	43	2	0.88	0.89	0.01	0	0	0	0	0	0	0	0
10/9/2024 14:51	24202	PROV_T4	0	1	1	0	0	0	0	0	1	1	0	1200	1200	0
10/9/2024 14:53	63801	HEMP_T1	6	4	-2	0.45	0.5	0.05	0.31	0.15	0	0	0	0	0	0
10/9/2024 14:53	63804	HEMP_T1	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
10/9/2024 14:53	63803	HEMP_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/9/2024 14:56	64305	LINC_T1	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
10/9/2024 15:04	66502	SMAN_T2	9	12	3	0.4	0.48	0.08	0	0	0	0	0	0	0	0
10/9/2024 15:04	66501	SMAN_T2	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
10/9/2024 15:04	66504	SMAN_T2	1	3	2	0.1	0.47	0.37	0	0	0	0	0	0	0	0
10/9/2024 15:04	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 15:05	66504	SMAN_T2	1	3	2	0.1	0.47	0.37	0	0	0	0	0	0	0	0
10/9/2024 15:05	66501	SMAN_T2	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
10/9/2024 15:05	65501	MOJO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 15:05	66503	SMAN_T2	0	1	1	0	0.1	0.1	0.39	0.42	0	0	0	0	0	0
10/9/2024 15:05	66502	SMAN_T2	9	12	3	0.4	0.48	0.08	0.16	0.14	0	0	0	0	0	0
10/9/2024 15:06	66501	SMAN_T2	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
10/9/2024 15:06	66502	SMAN_T2	9	12	3	0.4	0.48	0.08	0.14	0.09	0	0	0	0	0	0
10/9/2024 15:06	66504	SMAN_T2	1	3	2	0.1	0.47	0.37	0	0	0	0	0	0	0	0
10/9/2024 15:06	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 15:08	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 15:08	66504	SMAN_T2	1	3	2	0.1	0.47	0.37	-0.29	-0.13	0	0	0	0	0	0
10/9/2024 15:08	66501	SMAN_T2	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
10/9/2024 15:08	60101	COCA_T1	1	1	0	0.1	0.6	0.5	0.26	0.33	0	0	0	0	0	0
10/9/2024 15:08	66502	SMAN_T2	9	12	3	0.4	0.48	0.08	0	0	0	0	0	0	0	0
10/9/2024 15:09	60101	COCA_T1	1	1	0	0.1	0.6	0.5	0.26	0.33	0	0	0	0	0	0
10/9/2024 15:10	60102	COCA_T1	0	0	0	0	0	0	0.23	0.4	2	2	0	1200	1200	0
10/9/2024 15:10	60101	COCA_T1	1	1	0	0.1	0.6	0.5	0.26	0.33	0	0	0	0	0	0
10/9/2024 15:11	60101	COCA_T1	1	1	0	0.1	0.6	0.5	0.26	0.33	0	0	0	0	0	0
10/9/2024 15:13	50701	SMEC_T1	3	0	-3	0.5	0	-0.5	0.31	0.3	0	0	0	0	0	0
10/9/2024 15:16	21501	CEAV_T2	0	0	0	0	0	0	0.54	0.57	1	1	0	1200	1200	0
10/9/2024 15:19	63803	HEMP_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/9/2024 15:19	63804	HEMP_T1	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
10/9/2024 15:19	63801	HEMP_T1	4	2	-2	0.5	0.4	-0.1	0.15	0.02	0	0	0	0	0	0
10/9/2024 15:20	52006	LING_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
10/9/2024 15:20	52004	LING_T2	5	5	0	2.8	2.98	0.18	0.27	0.28	0	0	0	0	0	0
10/9/2024 15:20	52002	LING_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/9/2024 15:21	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 15:22	58401	MORO_T1	0	1	1	0	0.4	0.4	-0.38	-0.41	0	0	0	0	0	0
10/9/2024 15:22	58402	MORO_T1	1	13	12	0.2	0.15	-0.05	-0.31	-0.46	4	4	0	3000	3000	0
10/9/2024 15:22	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 15:24	66503	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/9/2024 15:24	66504	SMAN_T2	3	2	-1	0.47	0.55	0.08	-0.13	-0.19	0	0	0	0	0	0
10/9/2024 15:24	66501	SMAN_T2	2	2	0	0.6	0.95	0.35	0	0	0	0	0	0	0	0
10/9/2024 15:24	66502	SMAN_T2	10	11	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/9/2024 15:25	66503	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/9/2024 15:25	66502	SMAN_T2	10	11	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/9/2024 15:25	66504	SMAN_T2	3	2	-1	0.47	0.55	0.08	0	0	0	0	0	0	0	0
10/9/2024 15:25	66501	SMAN_T2	2	2	0	0.6	0.95	0.35	0	0	0	0	0	0	0	0
10/9/2024 15:25	58402	MORO_T1	1	13	12	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/9/2024 15:25	58401	MORO_T1	0	1	1	0	0.4	0.4	-0.38	-0.41	0	0	0	0	0	0
10/9/2024 15:25	67106	SPRI_T2	0	0	0	0	0	0	-1.16	-1.16	1	1	0	900	900	0
10/9/2024 15:26	66502	SMAN_T2	10	11	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/9/2024 15:26	66503	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/9/2024 15:26	66501	SMAN_T2	2	2	0	0.6	0.95	0.35	0	0	0	0	0	0	0	0
10/9/2024 15:26	67106	SPRI_T2	0	0	0	0	0	0	-1.16	-1.16	1	1	0	900	900	0
10/9/2024 15:26	66504	SMAN_T2	3	2	-1	0.47	0.55	0.08	-0.38	-0.57	0	0	0	0	0	0
10/9/2024 15:27	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0.14	0.15	0	0	0	0	0	0
10/9/2024 15:33	46506	LOHA_T1	3	3	0	5.83	5.43	-0.4	-0.24	-0.22	0	0	0	0	0	0
10/9/2024 15:33	46504	LOHA_T1	3	10	7	0.67	0.33	-0.34	0	0	0	0	0	0	0	0
10/9/2024 15:36	46504	LOHA_T1	3	10	7	0.67	0.33	-0.34	0	0	0	0	0	0	0	0
10/9/2024 15:36	46506	LOHA_T1	3	3	0	5.83	5.43	-0.4	-0.11	-0.1	0	0	0	0	0	0
10/9/2024 15:39	67401	WAKE_T2	1	1	0	0.3	0.5	0.2	-1.07	-1.07	0	0	0	0	0	0
10/9/2024 15:40	55105	WERT_T1	0	0	0	0	0	0	-0.61	-0.6	1	1	0	900	900	0
10/9/2024 15:40	67503	WEWI_T2	3	3	0	3.23	3.37	0.14	-0.25	-0.25	0	0	0	0	0	0
10/9/2024 15:40	67502	WEWI_T2	14	216	202	0.34	0.27	-0.07	0	0	0	0	0	0	0	0
10/9/2024 15:41	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/9/2024 15:41	66504	SMAN_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
10/9/2024 15:41	66501	SMAN_T2	2	0	-2	0.95	0	-0.95	0	0	0	0	0	0	0	0
10/9/2024 15:41	66502	SMAN_T2	11	2	-9	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
10/9/2024 15:45	44502	HAMI_T2	1	1	0	2.9	3	0.1	-0.92	-0.89	0	0	0	0	0	0
10/9/2024 15:47	21701	SUBU_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
10/9/2024 15:47	21705	SUBU_T1	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
10/9/2024 15:47	21704	SUBU_T1	0	0	0	0	0	0	-2.45	-2.44	2	2	0	2400	2400	0
10/9/2024 15:49	42902	MIDD_T2	6	5	-1	0.55	0.42	-0.13	-0.01	-0.23	0	0	0	0	0	0
10/9/2024 15:49	42903	MIDD_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
10/9/2024 15:50	42902	MIDD_T2	6	5	-1	0.55	0.42	-0.13	-0.01	-0.23	0	0	0	0	0	0
10/9/2024 15:50	42903	MIDD_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
10/9/2024 15:50	65005	NEFF_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/9/2024 15:50	65001	NEFF_T2	7	0	-7	0.14	0	-0.14	0	0	0	0	0	0	0	0
10/9/2024 15:50	65004	NEFF_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/9/2024 15:50	65003	NEFF_T2	6	4	-2	0.32	0.15	-0.17	-1.46	-1.49	2	2	0	1800	1800	0
10/9/2024 15:51	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 15:55	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 15:56	43304	WATS_T2	0	0	0	0	0	0	-1.26	-1.34	0	0	0	0	0	0
10/9/2024 15:56	42903	MIDD_T2	1	1	0	1.1	1.1	0	0.28	1.44	1	0	-1	1200	0	-1200
10/9/2024 15:56	42902	MIDD_T2	6	5	-1	0.55	0.42	-0.13	0	0	0	0	0	0	0	0
10/9/2024 15:57	43304	WATS_T2	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
10/9/2024 16:03	28403	HART_T2	0	0	0	0	0	0	0.57	0.52	0	0	0	0	0	0
10/9/2024 16:03	63501	HEID_TBK1-2	2	2	0	0.75	0.95	0.2	0.72	0.47	0	0	0	0	0	0
10/9/2024 16:04	65003	NEFF_T2	3	5	2	0.13	0.3	0.17	0	0	0	0	0	0	0	0
10/9/2024 16:04	65001	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/9/2024 16:04	65005	NEFF_T2	2	1	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/9/2024 16:04	65004	NEFF_T2	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
10/9/2024 16:06	65501	MOJO_T1	0	0	0	0	0	0	-0.94	-1.08	1	1	0	900	900	0
10/9/2024 16:08	67201	TEHI_T1	2	4	2	0.45	0.65	0.2	0	0	0	0	0	0	0	0
10/9/2024 16:08	67203	TEHI_T1	0	0	0	0	0	0	2.32	2.27	2	2	0	1500	1500	0
10/9/2024 16:17	67502	WEWI_T2	189	180	-9	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
10/9/2024 16:17	67503	WEWI_T2	3	3	0	3.23	3.5	0.27	-0.24	-0.23	0	0	0	0	0	0
10/9/2024 16:18	67502	WEWI_T2	189	180	-9	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
10/9/2024 16:18	67503	WEWI_T2	3	3	0	3.23	3.5	0.27	-0.24	-0.23	0	0	0	0	0	0
10/9/2024 16:19	44801	EDAN_T2	209	221	12	0.71	0.72	0.01	0	0	0	0	0	0	0	0
10/9/2024 16:19	44802	EDAN_T2	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
10/9/2024 16:19	64701	LITI_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
10/9/2024 16:20	12302	LANA_T2	0	0	0	0	0	0	-1.68	-1.69	2	2	0	1500	1500	0
10/9/2024 16:25	65205	PRIN_T1	1	2	1	1.5	1.7	0.2	0	0	0	0	0	0	0	0
10/9/2024 16:27	60201	ATGL_T2	0	0	0	0	0	0	0.6	0.57	0	0	0	0	0	0
10/9/2024 16:37	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/9/2024 16:40	44301	BEAV_T2	0	0	0	0	0	0	0.48	0.47	1	1	0	600	600	0
10/9/2024 16:42	50105	HARR_T3	6	6	0	5.3	5.3	0	0	0	0	0	0	0	0	0
10/9/2024 16:42	50103	HARR_T3	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/9/2024 16:42	50201	HARR_T3	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
10/9/2024 16:42	50107	HARR_T3	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
10/9/2024 16:42	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 16:43	44301	BEAV_T2	0	0	0	0	0	0	0.48	0.47	1	1	0	600	600	0
10/9/2024 16:43	60201	ATGL_T2	0	0	0	0	0	0	0.57	0.63	0	0	0	0	0	0
10/9/2024 16:43	44302	BEAV_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
10/9/2024 16:45	10602	BLGL_T2	3	1	-2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/9/2024 16:47	21204	ECAR_T2	1	1	0	0.5	0.3	-0.2	-0.75	-0.75	0	0	0	0	0	0
10/9/2024 16:47	21206	ECAR_T2	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
10/9/2024 16:47	21202	ECAR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/9/2024 16:48	67503	WEWI_T2	3	3	0	3.37	3.13	-0.24	-0.24	-0.24	0	0	0	0	0	0
10/9/2024 16:48	67502	WEWI_T2	128	169	41	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/9/2024 16:57	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 16:57	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 17:01	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 17:01	62106	ELAN_T1	0	0	0	0	0	0	0.19	0.14	0	0	0	0	0	0
10/9/2024 17:01	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 17:01	62105	ELAN_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 17:10	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 17:10	50623	CCTY_T2	5	5	0	5.9	5.6	-0.3	0	0	0	0	0	0	0	0
10/9/2024 17:10	50625	CCTY_T2	6	6	0	2.32	2.42	0.1	0	0	0	0	0	0	0	0
10/9/2024 17:10	50624	CCTY_T2	2	2	0	5.85	5.55	-0.3	0	0	0	0	0	0	0	0
10/9/2024 17:11	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 17:12	60404	DILL_T2	0	0	0	0	0	0	-0.31	-0.26	1	1	0	1200	1200	0
10/9/2024 17:12	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
10/9/2024 17:13	67605	WARW_T1	21	28	7	0.5	0.52	0.02	0	0	0	0	0	0	0	0
10/9/2024 17:13	67605	WARW_T1	21	28	7	0.5	0.52	0.02	-0.99	-1.02	0	0	0	0	0	0
10/9/2024 17:13	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
10/9/2024 17:13	67601	WARW_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
10/9/2024 17:14	60404	DILL_T2	0	0	0	0	0	0	-0.31	-0.26	1	1	0	1200	1200	0
10/9/2024 17:16	62105	ELAN_T1	0	9	9	0	0.1	0.1	0.4	0.4	0	0	0	0	0	0
10/9/2024 17:16	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 17:16	23401	HONE_T2	0	0	0	0	0	0	0.01	0.11	0	0	0	0	0	0
10/9/2024 17:16	62101	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/9/2024 17:17	52004	LING_T2	3	2	-1	4.1	6.2	2.1	0.07	0.09	0	0	0	0	0	0
10/9/2024 17:17	67605	WARW_T1	28	10	-18	0.52	0.35	-0.17	0	0	0	0	0	0	0	0
10/9/2024 17:17	52006	LING_T2	2	2	0	1	0.85	-0.15	0	0	0	0	0	0	0	0
10/9/2024 17:17	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
10/9/2024 17:17	52002	LING_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
10/9/2024 17:18	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 17:18	62101	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/9/2024 17:18	62105	ELAN_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 17:19	65001	NEFF_T2	19	125	106	0.12	0.15	0.03	-0.85	-0.81	1	1	0	1200	1200	0
10/9/2024 17:19	65003	NEFF_T2	39	98	59	0.14	0.17	0.03	0	0	0	0	0	0	0	0
10/9/2024 17:25	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 17:25	67402	WAKE_T2	0	0	0	0	0	0	-0.41	-0.39	1	1	0	600	600	0
10/9/2024 17:30	24702	FLND_T2	0	0	0	0	0	0	-0.04	1.33	1	0	-1	1200	0	-1200
10/9/2024 17:31	52002	LING_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
10/9/2024 17:31	10903	COOP_T2	82	49	-33	0.21	0.21	0	0	0	0	0	0	0	0	0
10/9/2024 17:31	10901	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 17:31	52006	LING_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
10/9/2024 17:31	52004	LING_T2	2	3	1	6.15	6.2	0.05	0	0	0	0	0	0	0	0
10/9/2024 17:32	10903	COOP_T2	82	49	-33	0.21	0.21	0	0	0	0	0	0	0	0	0
10/9/2024 17:34	57203	ROSS_T1	91	220	129	0.11	0.12	0.01	0	0	0	0	0	0	0	0
10/9/2024 17:34	57201	ROSS_T1	202	205	3	0.32	0.41	0.09	-1.11	-1.12	0	0	0	0	0	0
10/9/2024 17:34	57205	ROSS_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
10/9/2024 17:40	60404	DILL_T2	0	0	0	0	0	0	-0.29	-0.28	1	1	0	1200	1200	0
10/9/2024 17:42	57403	SPAN_T1	181	131	-50	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
10/9/2024 17:42	57401	SPAN_T1	420	26	-394	0.32	0.21	-0.11	-0.31	-0.35	0	0	0	0	0	0
10/9/2024 17:47	61502	EPET_T1	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
10/9/2024 18:03	62106	ELAN_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 18:03	62103	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 18:03	62105	ELAN_T1	0	39	39	0	0.11	0.11	0.4	0.36	0	0	0	0	0	0
10/9/2024 18:03	62101	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/9/2024 18:04	67505	WEWI_T1	0	0	0	0	0	0	-0.21	-0.2	1	1	0	900	900	0
10/9/2024 18:06	58401	MORO_T1	0	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0
10/9/2024 18:43	66303	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 18:43	66302	MCGO_T2	0	0	0	0	0	0	-0.9	-1.04	0	0	0	0	0	0
10/9/2024 19:43	57403	SPAN_T1	49	122	73	0.34	0.36	0.02	0	0	0	0	0	0	0	0
10/9/2024 19:43	57401	SPAN_T1	2	19	17	0.65	0.21	-0.44	-0.26	-0.29	0	0	0	0	0	0
10/9/2024 20:06	48901	FOSP_T2	0	0	0	0	0	0	-0.41	-0.34	1	1	0	600	600	0
10/9/2024 20:07	48902	FOSP_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
10/9/2024 20:07	55002	NEWP_T1	4	5	1	0.5	0.32	-0.18	0	0	0	0	0	0	0	0
10/9/2024 20:07	55001	NEWP_T1	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
10/9/2024 20:08	57106	SPHI_T2	3	3	0	1.53	1.13	-0.4	0	0	0	0	0	0	0	0
10/9/2024 20:08	57101	SPHI_T2	6	6	0	0.93	1.12	0.19	0	0	0	0	0	0	0	0
10/9/2024 20:08	57104	SPHI_T2	2	2	0	5.05	2.7	-2.35	0.51	0.49	0	0	0	0	0	0
10/9/2024 20:14	57203	ROSS_T1	778	33	-745	0.25	0.11	-0.14	0	0	0	0	0	0	0	0
10/9/2024 20:14	57201	ROSS_T1	342	189	-153	0.45	0.33	-0.12	-1.28	-1.25	0	0	0	0	0	0
10/9/2024 20:14	57205	ROSS_T1	47	0	-47	0.14	0	-0.14	0	0	0	0	0	0	0	0
10/9/2024 20:22	54601	SUMM_T2	10	7	-3	0.39	0.19	-0.2	-0.94	-0.98	1	1	0	1200	1200	0
10/9/2024 20:22	17002	RIRO_T2	24	171	147	0.13	0.17	0.04	0.31	0.28	0	0	0	0	0	0
10/9/2024 20:24	44701	MUNC_T2	115	167	52	0.2	0.24	0.04	0	0	0	0	0	0	0	0
10/9/2024 20:24	44703	MUNC_T2	2	2	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
10/9/2024 20:24	44702	MUNC_T2	132	171	39	0.48	0.49	0.01	0	0	0	0	0	0	0	0
10/9/2024 20:25	15703	TANN_T2	1	3	2	5.4	1.7	-3.7	0	0	0	0	0	0	0	0
10/9/2024 20:25	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
10/9/2024 20:25	46506	LOHA_T1	4	4	0	3.35	3.5	0.15	0	0	0	0	0	0	0	0
10/9/2024 20:25	15702	TANN_T2	0	71	71	0	0.2	0.2	-0.48	-0.46	0	0	0	0	0	0
10/9/2024 20:25	24901	WHHA_T1	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
10/9/2024 20:26	24102	EHAZ_T1	1	0	-1	0.9	0	-0.9	0.04	0.03	0	0	0	0	0	0
10/9/2024 20:26	24105	EHAZ_T1	4	4	0	5.78	5.75	-0.03	0	0	0	0	0	0	0	0
10/9/2024 20:26	15703	TANN_T2	1	3	2	5.4	1.7	-3.7	0	0	0	0	0	0	0	0
10/9/2024 20:26	10602	BLGL_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
10/9/2024 20:26	15702	TANN_T2	0	71	71	0	0.2	0.2	-0.48	-0.46	0	0	0	0	0	0
10/9/2024 20:26	24101	EHAZ_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:28	16101	BING_T2	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
10/9/2024 20:28	22002	BOHE_T1	0	0	0	0	0	0	0.25	0.19	0	0	0	0	0	0
10/9/2024 20:28	22003	BOHE_T1	132	34	-98	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
10/9/2024 20:28	11601	CEAL_T1	0	8	8	0	0.16	0.16	0	0	0	0	0	0	0	0
10/9/2024 20:28	28704	HAML_T2	169	173	4	0.65	0.81	0.16	-0.87	-0.34	0	0	0	0	0	0
10/9/2024 20:29	60701	BREC_T1	0	0	0	0	0	0	-0.6	-0.59	1	1	0	600	600	0
10/9/2024 20:29	15703	TANN_T2	1	3	2	5.4	1.7	-3.7	0	0	0	0	0	0	0	0
10/9/2024 20:29	45902	AUBU_T1	0	0	0	0	0	0	0.1	0.12	1	1	0	600	600	0
10/9/2024 20:29	15702	TANN_T2	0	71	71	0	0.2	0.2	-0.48	-0.46	0	0	0	0	0	0
10/9/2024 20:29	41301	FISH_T1	2	1	-1	0.6	0.6	0	-0.09	-0.04	0	0	0	0	0	0
10/9/2024 20:30	50107	HARR_T3	1	1	0	7	6.4	-0.6	0	0	0	0	0	0	0	0
10/9/2024 20:30	50202	HARR_T3	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:30	50103	HARR_T3	2	2	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
10/9/2024 20:30	50105	HARR_T3	6	6	0	5.93	5.93	0	0	0	0	0	0	0	0	0
10/9/2024 20:30	60803	BUCK_T1	0	0	0	0	0	0	-0.53	-0.51	1	1	0	600	600	0
10/9/2024 20:30	50201	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:30	15703	TANN_T2	1	3	2	5.1	1.7	-3.4	0	0	0	0	0	0	0	0
10/9/2024 20:30	15702	TANN_T2	2	74	72	0.1	0.19	0.09	-0.48	-0.46	0	0	0	0	0	0
10/9/2024 20:31	65502	MOJO_T2	0	307	307	0	0.38	0.38	0	0	0	0	0	0	0	0
10/9/2024 20:31	25402	LAHA_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
10/9/2024 20:31	10903	COOP_T2	17	18	1	0.12	0.13	0.01	0	0	0	0	0	0	0	0
10/9/2024 20:31	65503	MOJO_T2	0	267	267	0	0.22	0.22	-0.37	-0.42	0	0	0	0	0	0
10/9/2024 20:31	10901	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:32	14402	SSLA_T1	22	125	103	0.12	0.17	0.05	0	0	0	0	0	0	0	0
10/9/2024 20:32	14801	TREI_T2	6	61	55	0.13	0.15	0.02	0.36	0.36	0	0	0	0	0	0
10/9/2024 20:32	42001	MNVL_T2	241	260	19	0.72	0.87	0.15	-0.37	-0.38	0	0	0	0	0	0
10/9/2024 20:32	14404	SSLA_T1	0	33	33	0	0.11	0.11	0	0	0	0	0	0	0	0
10/9/2024 20:32	14401	SSLA_T1	4	7	3	0.13	0.17	0.04	-0.58	-0.51	0	0	0	0	0	0
10/9/2024 20:32	45902	AUBU_T1	0	0	0	0	0	0	0.1	0.12	1	1	0	600	600	0
10/9/2024 20:32	65001	NEFF_T2	15	160	145	0.15	0.2	0.05	0	0	0	0	0	0	0	0
10/9/2024 20:32	65003	NEFF_T2	4	4	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/9/2024 20:32	14403	SSLA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:32	42002	MNVL_T2	1	1	0	2.8	2.7	-0.1	0	0	0	0	0	0	0	0
10/9/2024 20:32	65004	NEFF_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
10/9/2024 20:32	14802	TREI_T2	4	25	21	0.1	0.14	0.04	0.72	0.72	0	0	0	0	0	0
10/9/2024 20:32	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:33	22001	BOHE_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
10/9/2024 20:33	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:33	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/9/2024 20:33	57401	SPAN_T1	2	2	0	0.75	0.9	0.15	-0.62	-0.5	0	0	0	0	0	0
10/9/2024 20:33	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.33	0	0	0	0	0	0
10/9/2024 20:33	14801	TREI_T2	6	61	55	0.13	0.15	0.02	0	0	0	0	0	0	0	0
10/9/2024 20:33	22003	BOHE_T1	33	4	-29	0.15	0.28	0.13	0	0	0	0	0	0	0	0
10/9/2024 20:33	14802	TREI_T2	4	25	21	0.1	0.14	0.04	0.36	0.36	0	0	0	0	0	0
10/9/2024 20:34	42701	AUGU_T1	1	1	0	0.2	0.5	0.3	0	0	2	2	0	1800	1800	0
10/9/2024 20:34	20401	ASHF_T2	7	20	13	0.59	0.4	-0.19	0	0	0	0	0	0	0	0
10/9/2024 20:34	61701	ELIZ_T1	1	1	0	5.7	5.8	0.1	0.13	0.32	0	0	0	0	0	0
10/9/2024 20:34	46001	BERW_T1	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/9/2024 20:34	44801	EDAN_T2	246	326	80	0.57	0.73	0.16	0	0	0	0	0	0	0	0
10/9/2024 20:34	60803	BUCK_T1	0	0	0	0	0	0	-0.53	-0.51	1	1	0	600	600	0
10/9/2024 20:34	40601	PIGR_T1	201	330	129	0.52	0.58	0.06	0	0	0	0	0	0	0	0
10/9/2024 20:34	22003	BOHE_T1	33	4	-29	0.15	0.28	0.13	-0.22	-0.22	0	0	0	0	0	0
10/9/2024 20:34	65001	NEFF_T2	15	160	145	0.15	0.2	0.05	-1.04	-0.94	1	1	0	1200	1200	0
10/9/2024 20:34	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 20:34	65003	NEFF_T2	4	4	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/9/2024 20:34	61801	EELI_T2	1	1	0	0.4	0.6	0.2	-0.93	-0.96	1	1	0	600	600	0
10/9/2024 20:34	14705	TREX_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
10/9/2024 20:34	44802	EDAN_T2	0	1	1	0	0.2	0.2	-0.93	-0.91	0	0	0	0	0	0
10/9/2024 20:34	13303	ORVI_T1	0	0	0	0	0	0	0.84	0.89	0	0	0	0	0	0
10/9/2024 20:34	22101	EDEL_T2	0	0	0	0	0	0	0.47	0.43	1	1	0	1200	1200	0
10/9/2024 20:34	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.12	0.09	0	0	0	0	0	0
10/9/2024 20:34	14704	TREX_T1	1	1	0	3.9	0	-3.9	0	0	0	0	0	0	0	0
10/9/2024 20:34	46002	BERW_T2	0	0	0	0	0	0	-1.12	-1.16	1	1	0	900	900	0
10/9/2024 20:34	40602	PIGR_T1	1	2	1	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
10/9/2024 20:35	23401	HONE_T2	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
10/9/2024 20:35	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:35	67503	WEWI_T2	1	1	0	8.5	8.7	0.2	-0.28	-0.25	0	0	0	0	0	0
10/9/2024 20:35	63501	HEID_TBK1-2	2	37	35	0.2	0.36	0.16	0.37	0.48	0	0	0	0	0	0
10/9/2024 20:35	21901	HUMB_T1	0	0	0	0	0	0	-0.98	-0.96	0	0	0	0	0	0
10/9/2024 20:35	67502	WEWI_T2	36	165	129	0.13	0.22	0.09	0	0	0	0	0	0	0	0
10/9/2024 20:35	42001	MNVL_T2	241	260	19	0.72	0.87	0.15	-0.37	-0.38	0	0	0	0	0	0
10/9/2024 20:35	14204	EALL_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
10/9/2024 20:35	24602	VARD_T2	1	2	1	1.3	0.85	-0.45	0	0	0	0	0	0	0	0
10/9/2024 20:35	24603	VARD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:35	42002	MNVL_T2	1	1	0	2.8	2.7	-0.1	0	0	0	0	0	0	0	0
10/9/2024 20:35	21601	EYNO_T1	0	0	0	0	0	0.03	-0.02	-0.02	0	0	0	0	0	0
10/9/2024 20:35	15001	BLMO_T1	1	4	3	0.2	0.43	0.23	0	0	0	0	0	0	0	0
10/9/2024 20:35	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:36	46004	BERW_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
10/9/2024 20:36	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:36	64302	LINC_T2	0	0	0	0	0	0	0.97	0.93	0	0	0	0	0	0
10/9/2024 20:36	66501	SMAN_T2	0	26	26	0	0.13	0.13	0	0	0	0	0	0	0	0
10/9/2024 20:36	66505	SMAN_T2	3	3	0	0.6	1.67	1.07	0	0	0	0	0	0	0	0
10/9/2024 20:36	44801	EDAN_T2	246	326	80	0.57	0.73	0.16	0	0	0	0	0	0	0	0
10/9/2024 20:36	66502	SMAN_T2	1	8	7	2.1	0.11	-1.99	-0.18	-0.16	0	0	0	0	0	0
10/9/2024 20:36	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:36	43402	BENT_T1	0	0	0	0	0	0	-0.65	-0.68	1	1	0	600	600	0
10/9/2024 20:36	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
10/9/2024 20:36	60801	BUCK_T1	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
10/9/2024 20:36	63501	HEID_TBK1-2	2	37	35	0.2	0.36	0.16	0.48	0.37	0	0	0	0	0	0
10/9/2024 20:36	44802	EDAN_T2	0	1	1	0	0.2	0.2	-0.91	-0.89	0	0	0	0	0	0
10/9/2024 20:36	67605	WARW_T1	8	14	6	0.29	0.54	0.25	0	0	0	0	0	0	0	0
10/9/2024 20:36	64704	LITI_T1	0	0	0	0	0	0	1	0.96	1	0	-1	600	0	-600
10/9/2024 20:36	64801	MONE_T2	0	1	1	0	0.5	0.5	0.24	0.17	0	0	0	0	0	0
10/9/2024 20:36	66504	SMAN_T2	0	1	1	0	0.2	0.2	-1.16	-1.09	0	0	0	0	0	0
10/9/2024 20:36	20201	JERM_T1	0	0	0	0	0	0	1.68	1.73	0	0	0	0	0	0
10/9/2024 20:37	65503	MOJO_T2	0	267	267	0	0.22	0.22	0	0	0	0	0	0	0	0
10/9/2024 20:37	65502	MOJO_T2	0	307	307	0	0.38	0.38	-0.97	-0.95	0	0	0	0	0	0
10/9/2024 20:37	63501	HEID_TBK1-2	2	37	35	0.2	0.36	0.16	0.48	0.37	0	0	0	0	0	0
10/9/2024 20:37	57401	SPAN_T1	2	2	0	0.75	0.9	0.15	-0.25	-0.34	0	0	0	0	0	0
10/9/2024 20:37	66502	SMAN_T2	1	8	7	2.1	0.11	-1.99	0	0	0	0	0	0	0	0
10/9/2024 20:37	43301	WATS_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
10/9/2024 20:37	24702	FLND_T2	0	0	0	0	0	0	1.35	1.17	0	0	0	0	0	0
10/9/2024 20:37	66505	SMAN_T2	3	3	0	0.6	1.67	1.07	0	0	0	0	0	0	0	0
10/9/2024 20:37	67502	WEWI_T2	36	165	129	0.13	0.22	0.09	-0.54	-0.52	0	0	0	0	0	0
10/9/2024 20:37	66504	SMAN_T2	0	1	1	0	0.2	0.2	-0.58	-0.55	0	0	0	0	0	0
10/9/2024 20:37	41301	FISH_T1	1	2	1	0.4	1.1	0.7	-0.04	-0.08	0	0	0	0	0	0
10/9/2024 20:37	24701	FLND_T2	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
10/9/2024 20:37	66501	SMAN_T2	0	26	26	0	0.13	0.13	0	0	0	0	0	0	0	0
10/9/2024 20:37	13302	ORVI_T2	3	5	2	0.1	0.12	0.02	1.34	1.36	0	0	0	0	0	0
10/9/2024 20:37	55101	WERT_T1	0	0	0	0	0	0	-1.24	-1.29	1	1	0	600	600	0
10/9/2024 20:37	67103	SPRI_T1	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
10/9/2024 20:37	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:37	40601	PIGR_T1	201	330	129	0.52	0.58	0.06	0	0	0	0	0	0	0	0
10/9/2024 20:37	40602	PIGR_T1	1	2	1	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
10/9/2024 20:37	43302	WATS_T2	4	4	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
10/9/2024 20:37	67503	WEWI_T2	1	1	0	8.5	8.7	0.2	0	0	0	0	0	0	0	0
10/9/2024 20:38	21204	ECAR_T2	1	1	0	0	0	0	-0.73	-0.69	0	0	0	0	0	0
10/9/2024 20:38	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:38	50202	HARR_T3	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:38	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:38	41902	REED_T1	0	0	0	0	0	0	0.95	0.93	0	0	0	0	0	0
10/9/2024 20:38	50105	HARR_T3	6	6	0	5.93	5.93	0	0	0	0	0	0	0	0	0
10/9/2024 20:38	67505	WEWI_T1	0	0	0	0	0	0	-0.34	-0.34	1	1	0	900	900	0
10/9/2024 20:38	24701	FLND_T2	1	0	-1	1.5	0	-1.5	0.32	0.34	0	0	0	0	0	0
10/9/2024 20:38	57403	SPAN_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
10/9/2024 20:38	24202	PROV_T4	0	1	1	0	2.1	2.1	0	0	1	1	0	1200	1200	0
10/9/2024 20:38	50107	HARR_T3	1	1	0	7	6.4	-0.6	0	0	0	0	0	0	0	0
10/9/2024 20:38	14801	TREI_T2	6	61	55	0.13	0.15	0.02	0.36	0.36	0	0	0	0	0	0
10/9/2024 20:38	14802	TREI_T2	4	25	21	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/9/2024 20:38	50103	HARR_T3	2	2	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
10/9/2024 20:38	52004	LING_T2	2	2	0	6.3	6.25	-0.05	0.11	0.1	0	0	0	0	0	0
10/9/2024 20:38	46506	LOHA_T1	4	4	0	3.38	3.63	0.25	-0.24	-0.24	0	0	0	0	0	0
10/9/2024 20:38	57401	SPAN_T1	2	2	0	0.75	0.9	0.15	-0.25	-0.34	0	0	0	0	0	0
10/9/2024 20:38	50201	HARR_T3	0	1	1	0	0.1	0.1	0	0	1	1	0	1200	1200	0
10/9/2024 20:38	52002	LING_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
10/9/2024 20:38	64701	LITI_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
10/9/2024 20:38	21206	ECAR_T2	1	1	0	6.7	7.5	0.8	0	0	0	0	0	0	0	0
10/9/2024 20:38	52006	LING_T2	2	2	0	0.65	1	0.35	0	0	0	0	0	0	0	0
10/9/2024 20:39	24701	FLND_T2	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
10/9/2024 20:39	44802	EDAN_T2	0	1	1	0	0.2	0.2	-0.91	-0.89	0	0	0	0	0	0
10/9/2024 20:39	41902	REED_T1	0	0	0	0	0	0	0.95	0.93	0	0	0	0	0	0
10/9/2024 20:39	40602	PIGR_T1	1	2	1	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
10/9/2024 20:39	67106	SPRI_T2	0	0	0	0	0	0	-1.19	-1.2	1	1	0	900	900	0
10/9/2024 20:39	67605	WARW_T1	8	14	6	0.29	0.54	0.25	-2.37	-2.42	0	0	0	0	0	0
10/9/2024 20:39	16103	BING_T2	0	0	0	0	0	0	-1.02	-1	2	2	0	1500	1500	0
10/9/2024 20:39	57203	ROSS_T1	33	482	449	0.11	0.17	0.06	0.66	0.7	0	0	0	0	0	0
10/9/2024 20:39	67402	WAKE_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
10/9/2024 20:39	46205	DANV_T2	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
10/9/2024 20:39	57401	SPAN_T1	2	2	0	0.75	0.9	0.15	-0.25	-0.34	0	0	0	0	0	0
10/9/2024 20:39	60101	COCA_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
10/9/2024 20:39	57201	ROSS_T1	188	311	123	0.32	0.4	0.08	0	0	0	0	0	0	0	0
10/9/2024 20:39	66504	SMAN_T2	0	1	1	0	0.2	0.2	-0.58	-0.55	0	0	0	0	0	0
10/9/2024 20:39	66501	SMAN_T2	0	26	26	0	0.13	0.13	0	0	0	0	0	0	0	0
10/9/2024 20:39	57002	WHHI_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
10/9/2024 20:39	57006	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:39	24702	FLND_T2	0	0	0	0	0	0	1.35	1.17	0	0	0	0	0	0
10/9/2024 20:39	43302	WATS_T2	4	4	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
10/9/2024 20:39	66502	SMAN_T2	1	8	7	2.1	0.11	-1.99	0	0	0	0	0	0	0	0
10/9/2024 20:39	40601	PIGR_T1	201	330	129	0.52	0.58	0.06	0	0	0	0	0	0	0	0
10/9/2024 20:39	64901	MILL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:39	54502	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/9/2024 20:39	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:39	44502	HAMI_T2	1	1	0	3.1	3.3	0.2	-0.89	-0.92	0	0	0	0	0	0
10/9/2024 20:39	67503	WEWI_T2	1	1	0	8.5	8.7	0.2	0	0	0	0	0	0	0	0
10/9/2024 20:39	43304	WATS_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
10/9/2024 20:39	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:39	60201	ATGL_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
10/9/2024 20:39	63804	HEMP_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
10/9/2024 20:39	63803	HEMP_T1	0	0	0	0	0	0	1.2	1.16	0	0	0	0	0	0
10/9/2024 20:39	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:39	54601	SUMM_T2	5	8	3	0.16	0.31	0.15	-0.98	-0.97	1	1	0	1200	1200	0
10/9/2024 20:39	57001	WHHI_T2	0	0	0	0	0	0	-1.08	-1.09	1	1	0	900	900	0
10/9/2024 20:39	46203	DANV_T2	1	1	0	6.2	6.7	0.5	0	0	0	0	0	0	0	0
10/9/2024 20:39	57205	ROSS_T1	0	20	20	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:39	64904	MILL_T1	0	0	0	0	0	0	0.48	0.42	0	0	0	0	0	0
10/9/2024 20:39	54506	ENOL_T2	0	0	0	0	0	0	0.51	0.61	1	1	0	600	600	0
10/9/2024 20:39	66505	SMAN_T2	3	3	0	0.6	1.67	1.07	0	0	0	0	0	0	0	0
10/9/2024 20:39	60701	BREC_T1	0	6	6	0	0.1	0.1	-0.59	-0.61	1	1	0	600	600	0
10/9/2024 20:39	45501	DERR_T2	0	0	0	0	0	0	-0.41	-0.68	4	4	0	3600	3600	0
10/9/2024 20:39	44801	EDAN_T2	246	326	80	0.57	0.73	0.16	0	0	0	0	0	0	0	0
10/9/2024 20:39	67502	WEWI_T2	36	165	129	0.13	0.22	0.09	-0.54	-0.52	0	0	0	0	0	0
10/9/2024 20:39	60801	BUCK_T1	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
10/9/2024 20:40	15001	BLMO_T1	1	4	3	0.2	0.43	0.23	0	0	0	0	0	0	0	0
10/9/2024 20:40	40101	HUNT_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/9/2024 20:40	54501	ENOL_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
10/9/2024 20:40	60701	BREC_T1	0	6	6	0	0.1	0.1	-0.59	-0.61	1	1	0	600	600	0
10/9/2024 20:40	54502	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/9/2024 20:40	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:40	60101	COCA_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
10/9/2024 20:41	66505	SMAN_T2	3	3	0	0.6	1.67	1.07	0	0	0	0	0	0	0	0
10/9/2024 20:41	42701	AUGU_T1	1	1	0	0.2	0.5	0.3	0	0	4	4	0	3600	3600	0
10/9/2024 20:41	57201	ROSS_T1	188	311	123	0.32	0.4	0.08	0	0	0	0	0	0	0	0
10/9/2024 20:41	40602	PIGR_T1	1	2	1	0.7	0.35	-0.35	1.55	1.47	0	0	0	0	0	0
10/9/2024 20:41	24901	WHHA_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
10/9/2024 20:41	53501	EVIL_T2	0	0	0	0	0	0	-0.89	-0.81	1	1	0	600	600	0
10/9/2024 20:41	44802	EDAN_T2	0	1	1	0	0.2	0.2	-0.91	-0.89	0	0	0	0	0	0
10/9/2024 20:41	65503	MOJO_T2	0	267	267	0	0.22	0.22	-0.42	-0.42	0	0	0	0	0	0
10/9/2024 20:41	63804	HEMP_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
10/9/2024 20:41	21701	SUBU_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
10/9/2024 20:41	57002	WHHI_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
10/9/2024 20:41	46001	BERW_T1	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
10/9/2024 20:41	63803	HEMP_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
10/9/2024 20:41	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/9/2024 20:41	40702	FFLD_T1	184	200	16	0.46	0.49	0.03	-0.81	-0.88	1	1	0	1200	1200	0
10/9/2024 20:41	67505	WEWI_T1	0	0	0	0	0	0	-0.34	-0.34	1	1	0	900	900	0
10/9/2024 20:41	21206	ECAR_T2	1	1	0	6.7	7.5	0.8	1.24	1.22	0	0	0	0	0	0
10/9/2024 20:41	57203	ROSS_T1	33	482	449	0.11	0.17	0.06	0.33	0.35	0	0	0	0	0	0
10/9/2024 20:41	14802	TREI_T2	4	25	21	0.1	0.14	0.04	0.72	0.7	0	0	0	0	0	0
10/9/2024 20:41	21705	SUBU_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
10/9/2024 20:41	64802	MONE_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/9/2024 20:41	54206	PENN_T2	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
10/9/2024 20:41	67203	TEHI_T1	0	0	0	0	0	0	2.47	2.43	2	2	0	1500	1500	0
10/9/2024 20:41	66504	SMAN_T2	0	1	1	0	0.2	0.2	-1.16	-1.09	0	0	0	0	0	0
10/9/2024 20:41	66501	SMAN_T2	0	26	26	0	0.13	0.13	0	0	0	0	0	0	0	0
10/9/2024 20:41	40703	FFLD_T1	4	4	0	0.75	0.83	0.08	0	0	0	0	0	0	0	0
10/9/2024 20:41	67605	WARW_T1	8	14	6	0.29	0.54	0.25	0	0	0	0	0	0	0	0
10/9/2024 20:41	66502	SMAN_T2	1	8	7	2.1	0.11	-1.99	0	0	0	0	0	0	0	0
10/9/2024 20:41	57401	SPAN_T1	2	2	0	0.75	0.9	0.15	-0.75	-1.03	0	0	0	0	0	0
10/9/2024 20:41	52006	LING_T2	2	2	0	0.65	1	0.35	0	0	0	0	0	0	0	0
10/9/2024 20:41	14801	TREI_T2	6	61	55	0.13	0.15	0.02	0	0	0	0	0	0	0	0
10/9/2024 20:41	57205	ROSS_T1	0	20	20	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:41	60102	COCA_T1	0	0	0	0	0	0	0.41	0.46	2	2	0	1200	1200	0
10/9/2024 20:41	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
10/9/2024 20:41	40701	FFLD_T1	71	77	6	0.68	0.68	0	0	0	0	0	0	0	0	0
10/9/2024 20:41	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:41	21704	SUBU_T1	0	0	0	0	0	0	-1.34	-1.27	1	1	0	1200	1200	0
10/9/2024 20:41	44801	EDAN_T2	246	326	80	0.57	0.73	0.16	0	0	0	0	0	0	0	0
10/9/2024 20:41	65502	MOJO_T2	0	307	307	0	0.38	0.38	0	0	0	0	0	0	0	0
10/9/2024 20:41	63501	HEID_TBK1-2	2	37	35	0.2	0.36	0.16	0.48	0.37	0	0	0	0	0	0
10/9/2024 20:41	13704	SCHN_T2	0	4	4	0	0.1	0.1	-0.39	-0.39	0	0	0	0	0	0
10/9/2024 20:41	40601	PIGR_T1	201	330	129	0.52	0.58	0.06	0	0	0	0	0	0	0	0
10/9/2024 20:41	67503	WEWI_T2	1	1	0	8.5	8.7	0.2	-0.25	-0.24	0	0	0	0	0	0
10/9/2024 20:41	67502	WEWI_T2	36	165	129	0.13	0.22	0.09	-1.09	-1.04	0	0	0	0	0	0
10/9/2024 20:41	10801	CHHI_T1	0	0	0	0	0	0	-1.64	-1.01	2	1	-1	1500	900	-600
10/9/2024 20:41	52004	LING_T2	2	2	0	6.3	6.25	-0.05	0	0	0	0	0	0	0	0
10/9/2024 20:41	64801	MONE_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/9/2024 20:41	52002	LING_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
10/9/2024 20:41	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/9/2024 20:42	52002	LING_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
10/9/2024 20:42	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.09	0.08	0	0	0	0	0	0
10/9/2024 20:42	64305	LINC_T1	0	0	0	0	0	0	-0.53	-0.57	0	0	0	0	0	0
10/9/2024 20:42	66505	SMAN_T2	3	3	0	0.6	1.67	1.07	0	0	0	0	0	0	0	0
10/9/2024 20:42	14401	SSLA_T1	4	7	3	0.13	0.17	0.04	0	0	0	0	0	0	0	0
10/9/2024 20:42	40602	PIGR_T1	1	2	1	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
10/9/2024 20:42	62106	ELAN_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
10/9/2024 20:42	58402	MORO_T1	0	0	0	0	0	0	0.32	0.33	1	1	0	900	900	0
10/9/2024 20:42	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:42	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
10/9/2024 20:42	60404	DILL_T2	1	2	1	8.1	2.1	-6	-0.35	-0.42	1	1	0	1200	1200	0
10/9/2024 20:42	66302	MCGO_T2	0	0	0	0	0	0	-1.05	-0.87	0	0	0	0	0	0
10/9/2024 20:42	14404	SSLA_T1	0	33	33	0	0.11	0.11	0	0	0	0	0	0	0	0
10/9/2024 20:42	67502	WEWI_T2	36	165	129	0.13	0.22	0.09	-0.54	-0.52	0	0	0	0	0	0
10/9/2024 20:42	65205	PRIN_T1	2	1	-1	3.15	2	-1.15	0	0	0	0	0	0	0	0
10/9/2024 20:42	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:42	67503	WEWI_T2	1	1	0	8.5	8.7	0.2	0	0	0	0	0	0	0	0
10/9/2024 20:42	60803	BUCK_T1	0	0	0	0	0	0	-1.02	-1.08	2	2	0	1200	1200	0
10/9/2024 20:42	52006	LING_T2	2	2	0	0.65	1	0.35	0	0	0	0	0	0	0	0
10/9/2024 20:42	14403	SSLA_T1	0	2	2	0	0.1	0.1	0.62	0.59	0	0	0	0	0	0
10/9/2024 20:42	40601	PIGR_T1	201	330	129	0.52	0.58	0.06	-0.18	-0.18	0	0	0	0	0	0
10/9/2024 20:42	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:42	57401	SPAN_T1	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
10/9/2024 20:42	14402	SSLA_T1	22	125	103	0.12	0.17	0.05	0	0	0	0	0	0	0	0
10/9/2024 20:42	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:42	60101	COCA_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
10/9/2024 20:42	52004	LING_T2	2	2	0	6.3	6.25	-0.05	0.11	0.1	0	0	0	0	0	0
10/9/2024 20:42	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 20:42	57403	SPAN_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
10/9/2024 20:42	67605	WARW_T1	8	14	6	0.29	0.54	0.25	0	0	0	0	0	0	0	0
10/9/2024 20:42	20401	ASHF_T2	7	20	13	0.59	0.4	-0.19	0	0	0	0	0	0	0	0
10/9/2024 20:42	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 20:42	66502	SMAN_T2	1	8	7	2.1	0.11	-1.99	-0.55	-0.49	0	0	0	0	0	0
10/9/2024 20:42	66501	SMAN_T2	0	26	26	0	0.13	0.13	0	0	0	0	0	0	0	0
10/9/2024 20:42	45502	DERR_T2	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
10/9/2024 20:43	40601	PIGR_T1	201	330	129	0.52	0.58	0.06	-0.18	-0.18	0	0	0	0	0	0
10/9/2024 20:43	66505	SMAN_T2	3	3	0	0.6	1.67	1.07	0	0	0	0	0	0	0	0
10/9/2024 20:43	67605	WARW_T1	8	14	6	0.29	0.54	0.25	-1.19	-1.21	0	0	0	0	0	0
10/9/2024 20:43	53501	EVIL_T2	0	0	0	0	0	0	-0.89	-0.81	1	1	0	600	600	0
10/9/2024 20:43	66504	SMAN_T2	0	1	1	0	0.2	0.2	-0.58	-0.55	0	0	0	0	0	0
10/9/2024 20:43	50202	HARR_T3	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:43	46004	BERW_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
10/9/2024 20:43	50103	HARR_T3	2	2	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
10/9/2024 20:43	41301	FISH_T1	1	2	1	0.4	1.1	0.7	0	0	0	0	0	0	0	0
10/9/2024 20:43	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:43	41305	FISH_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
10/9/2024 20:43	40602	PIGR_T1	1	2	1	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
10/9/2024 20:43	57205	ROSS_T1	0	20	20	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:43	65604	QVIL_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
10/9/2024 20:43	54502	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/9/2024 20:43	57203	ROSS_T1	33	482	449	0.11	0.17	0.06	0	0	0	0	0	0	0	0
10/9/2024 20:43	67503	WEWI_T2	1	1	0	8.5	8.7	0.2	0	0	0	0	0	0	0	0
10/9/2024 20:43	57201	ROSS_T1	188	311	123	0.32	0.4	0.08	-1.3	-1.25	0	0	0	0	0	0
10/9/2024 20:43	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
10/9/2024 20:43	67401	WAKE_T2	0	0	0	0	0	0	-0.99	-1	0	0	0	0	0	0
10/9/2024 20:43	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:43	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:43	67601	WARW_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
10/9/2024 20:43	50105	HARR_T3	6	6	0	5.93	5.93	0	0	0	0	0	0	0	0	0
10/9/2024 20:43	63501	HEID_TBK1-2	2	37	35	0.2	0.36	0.16	0.48	0.37	0	0	0	0	0	0
10/9/2024 20:43	12302	LANA_T2	0	0	0	0	0	0	-1.74	-1.73	2	2	0	1500	1500	0
10/9/2024 20:43	46001	BERW_T1	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
10/9/2024 20:43	50201	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:43	67502	WEWI_T2	36	165	129	0.13	0.22	0.09	-0.54	-0.52	0	0	0	0	0	0
10/9/2024 20:43	50107	HARR_T3	1	1	0	7	6.4	-0.6	0	0	0	0	0	0	0	0
10/9/2024 20:43	66502	SMAN_T2	1	8	7	2.1	0.11	-1.99	0	0	0	0	0	0	0	0
10/9/2024 20:43	42902	MIDD_T2	0	0	0	0	0	0	-0.41	-0.37	0	0	0	0	0	0
10/9/2024 20:43	54601	SUMM_T2	5	8	3	0.16	0.31	0.15	-0.98	-0.97	1	1	0	1200	1200	0
10/9/2024 20:43	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:43	13303	ORVI_T1	0	0	0	0	0	0	0.89	0.91	0	0	0	0	0	0
10/9/2024 20:43	54504	ENOL_T2	0	0	0	0	0	0	-1.17	-1.18	1	1	0	600	600	0
10/9/2024 20:43	43302	WATS_T2	4	4	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
10/9/2024 20:43	66501	SMAN_T2	0	26	26	0	0.13	0.13	0	0	0	0	0	0	0	0
10/9/2024 20:43	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:43	42701	AUGU_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
10/9/2024 20:44	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 20:44	45702	LIND_T2	1	1	0	0.2	0.4	0.2	-0.53	-0.55	0	0	0	0	0	0
10/9/2024 20:44	44301	BEAV_T2	1	1	0	0.2	0.8	0.6	0.6	0.76	1	1	0	600	600	0
10/9/2024 20:44	66502	SMAN_T2	1	8	7	2.1	0.11	-1.99	0	0	0	0	0	0	0	0
10/9/2024 20:44	65001	NEFF_T2	15	160	145	0.15	0.2	0.05	-0.94	-1.03	1	1	0	1200	1200	0
10/9/2024 20:44	53501	EVIL_T2	0	0	0	0	0	0	-0.89	-0.81	1	1	0	600	600	0
10/9/2024 20:44	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:44	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.09	0.08	0	0	0	0	0	0
10/9/2024 20:44	44801	EDAN_T2	246	326	80	0.57	0.73	0.16	-1.7	-1.72	0	0	0	0	0	0
10/9/2024 20:44	63804	HEMP_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
10/9/2024 20:44	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 20:44	46102	MACI_T1	69	245	176	0.19	0.26	0.07	0.65	0.64	0	0	0	0	0	0
10/9/2024 20:44	66501	SMAN_T2	0	26	26	0	0.13	0.13	0	0	0	0	0	0	0	0
10/9/2024 20:44	57401	SPAN_T1	2	2	0	0.75	0.9	0.15	-0.25	-0.34	0	0	0	0	0	0
10/9/2024 20:44	44802	EDAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 20:44	20401	ASHF_T2	7	20	13	0.59	0.4	-0.19	0	0	0	0	0	0	0	0
10/9/2024 20:44	66505	SMAN_T2	3	3	0	0.6	1.67	1.07	-0.15	-0.09	1	1	0	900	900	0
10/9/2024 20:44	65003	NEFF_T2	4	4	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/9/2024 20:44	42701	AUGU_T1	1	1	0	0.2	0.5	0.3	0	0	2	2	0	1800	1800	0
10/9/2024 20:44	63801	HEMP_T1	0	0	0	0	0	0	-0.37	-0.09	0	0	0	0	0	0
10/9/2024 20:45	57402	SPAN_T2	0	3	3	0	0.1	0.1	-1.26	-1.25	0	0	0	0	0	0
10/9/2024 20:45	67503	WEWI_T2	1	1	0	8.5	8.7	0.2	-0.25	-0.24	0	0	0	0	0	0
10/9/2024 20:45	61801	EELI_T2	1	1	0	0.4	0.6	0.2	-0.96	-0.97	1	1	0	600	600	0
10/9/2024 20:45	43402	BENT_T1	0	0	0	0	0	0	-0.65	-0.68	1	1	0	600	600	0
10/9/2024 20:45	40602	PIGR_T1	1	2	1	0.6	0.4	-0.2	0.77	0.74	0	0	0	0	0	0
10/9/2024 20:45	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:45	43304	WATS_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
10/9/2024 20:45	66501	SMAN_T2	22	28	6	0.11	0.14	0.03	0	0	0	0	0	0	0	0
10/9/2024 20:45	63804	HEMP_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:45	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:45	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 20:45	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/9/2024 20:45	60701	BREC_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:45	40601	PIGR_T1	308	334	26	0.55	0.61	0.06	0	0	0	0	0	0	0	0
10/9/2024 20:45	43302	WATS_T2	4	4	0	0.38	0.48	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:45	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:45	66502	SMAN_T2	5	7	2	0.1	0.11	0.01	-0.37	-0.33	0	0	0	0	0	0
10/9/2024 20:45	66505	SMAN_T2	3	3	0	1.67	1.73	0.06	0	0	0	0	0	0	0	0
10/9/2024 20:45	54504	ENOL_T2	0	0	0	0	0	0	-1.17	-1.18	1	1	0	600	600	0
10/9/2024 20:45	67502	WEWI_T2	47	171	124	0.14	0.22	0.08	0	0	0	0	0	0	0	0
10/9/2024 20:45	57404	SPAN_T2	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
10/9/2024 20:45	67203	TEHI_T1	0	0	0	0	0	0	2.47	2.43	2	2	0	1500	1500	0
10/9/2024 20:45	63801	HEMP_T1	0	0	0	0	0	0	-0.37	-0.09	0	0	0	0	0	0
10/9/2024 20:46	43801	SWIL_T1	2	2	0	3.2	3.2	0	0	0	0	0	0	0	0	0
10/9/2024 20:46	53501	EVIL_T2	0	1	1	0	0.1	0.1	-0.89	-0.81	1	1	0	600	600	0
10/9/2024 20:46	66502	SMAN_T2	5	7	2	0.1	0.11	0.01	-0.37	-0.33	0	0	0	0	0	0
10/9/2024 20:46	64203	KINZ_T1	29	71	42	0.18	0.29	0.11	-0.46	-0.48	1	1	0	600	600	0
10/9/2024 20:46	57401	SPAN_T1	2	10	8	0.7	0.3	-0.4	-0.25	-0.34	0	0	0	0	0	0
10/9/2024 20:46	42902	MIDD_T2	0	0	0	0	0	0	-0.41	-0.37	0	0	0	0	0	0
10/9/2024 20:46	64204	KINZ_T1	39	114	75	0.27	0.3	0.03	0	0	0	0	0	0	0	0
10/9/2024 20:46	44801	EDAN_T2	313	305	-8	0.7	0.74	0.04	0	0	0	0	0	0	0	0
10/9/2024 20:46	67501	WEWI_T1	0	0	0	0	0	0	-0.67	-0.64	0	0	0	0	0	0
10/9/2024 20:46	66501	SMAN_T2	22	28	6	0.11	0.14	0.03	0	0	0	0	0	0	0	0
10/9/2024 20:46	61001	DONV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:46	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:46	42701	AUGU_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/9/2024 20:46	13704	SCHN_T2	4	4	0	0.1	0.13	0.03	-0.39	-0.39	0	0	0	0	0	0
10/9/2024 20:46	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:46	44802	EDAN_T2	1	1	0	0.2	0.2	0	-0.91	-0.89	0	0	0	0	0	0
10/9/2024 20:46	57205	ROSS_T1	0	266	266	0	0.14	0.14	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/9/2024 20:46	64704	LITI_T1	0	0	0	0	0	0	1	0.96	0	0	0	0	0	0
10/9/2024 20:46	54603	SUMM_T2	0	0	0	0	0	0	-0.42	-0.49	1	1	0	900	900	0
10/9/2024 20:46	64801	MONE_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/9/2024 20:46	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:46	64802	MONE_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
10/9/2024 20:46	66505	SMAN_T2	3	3	0	1.67	1.73	0.06	0	0	0	0	0	0	0	0
10/9/2024 20:46	43802	SWIL_T1	0	0	0	0	0	0	-0.11	-0.14	1	1	0	600	600	0
10/9/2024 20:46	54601	SUMM_T2	7	10	3	0.17	0.37	0.2	0	0	0	0	0	0	0	0
10/9/2024 20:46	50624	CCTY_T2	2	2	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
10/9/2024 20:46	54206	PENN_T2	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
10/9/2024 20:46	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/9/2024 20:46	50623	CCTY_T2	5	5	0	5.72	5.38	-0.34	0	0	0	0	0	0	0	0
10/9/2024 20:46	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:46	50625	CCTY_T2	5	5	0	2.64	2.74	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:46	67106	SPRI_T2	0	0	0	0	0	0	-1.19	-1.2	1	1	0	900	900	0
10/9/2024 20:46	57201	ROSS_T1	212	403	191	0.36	0.46	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:46	64201	KINZ_T1	7	29	22	0.43	0.34	-0.09	0	0	0	0	0	0	0	0
10/9/2024 20:46	64202	KINZ_T1	9	33	24	0.24	0.32	0.08	0	0	0	0	0	0	0	0
10/9/2024 20:46	66504	SMAN_T2	0	1	1	0	0.2	0.2	-0.58	-0.55	0	0	0	0	0	0
10/9/2024 20:46	57403	SPAN_T1	0	4	4	0	0.15	0.15	0.03	0.03	0	0	0	0	0	0
10/9/2024 20:46	57203	ROSS_T1	71	895	824	0.11	0.27	0.16	0.33	0.35	0	0	0	0	0	0
10/9/2024 20:46	10903	COOP_T2	18	8	-10	0.13	0.14	0.01	0	0	0	0	0	0	0	0
10/9/2024 20:47	21501	CEAV_T2	0	0	0	0	0	0	-0.21	-0.3	1	1	0	1200	1200	0
10/9/2024 20:47	50105	HARR_T3	6	6	0	6.05	5.77	-0.28	0	0	0	0	0	0	0	0
10/9/2024 20:47	65501	MOJO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:47	60801	BUCK_T1	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
10/9/2024 20:47	50107	HARR_T3	1	1	0	6.8	6	-0.8	0	0	0	0	0	0	0	0
10/9/2024 20:47	50103	HARR_T3	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:47	60803	BUCK_T1	0	0	0	0	0	0	-0.51	-0.54	1	1	0	600	600	0
10/9/2024 20:47	40602	PIGR_T1	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
10/9/2024 20:47	61502	EPET_T1	0	2	2	0	0.1	0.1	-0.67	-0.97	0	0	0	0	0	0
10/9/2024 20:47	45802	HEGI_T2	47	48	1	1.26	1.91	0.65	0.64	0.58	0	0	0	0	0	0
10/9/2024 20:47	57403	SPAN_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
10/9/2024 20:47	44802	EDAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/9/2024 20:47	57401	SPAN_T1	2	10	8	0.7	0.3	-0.4	-0.5	-0.69	0	0	0	0	0	0
10/9/2024 20:47	40601	PIGR_T1	308	334	26	0.55	0.61	0.06	0	0	0	0	0	0	0	0
10/9/2024 20:47	50201	HARR_T3	1	1	0	0	0.2	0.2	0	0	1	1	0	1200	1200	0
10/9/2024 20:47	66505	SMAN_T2	3	3	0	1.67	1.73	0.06	0	0	0	0	0	0	0	0
10/9/2024 20:47	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 20:47	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:47	66502	SMAN_T2	5	7	2	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/9/2024 20:47	46801	HEPB_T2	2	2	0	0.5	0.55	0.05	0.49	0.46	0	0	0	0	0	0
10/9/2024 20:47	66302	MCGO_T2	0	0	0	0	0	0	-1.05	-0.87	0	0	0	0	0	0
10/9/2024 20:47	42902	MIDD_T2	0	0	0	0	0	0	-0.41	-0.37	0	0	0	0	0	0
10/9/2024 20:47	66503	SMAN_T2	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
10/9/2024 20:47	44801	EDAN_T2	313	305	-8	0.7	0.74	0.04	-1.7	-1.72	0	0	0	0	0	0
10/9/2024 20:47	66501	SMAN_T2	22	28	6	0.11	0.14	0.03	0	0	0	0	0	0	0	0
10/9/2024 20:47	50202	HARR_T3	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:48	42903	MIDD_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
10/9/2024 20:48	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:48	42701	AUGU_T1	1	1	0	0.5	0.4	-0.1	0	0	2	2	0	1800	1800	0
10/9/2024 20:48	57205	ROSS_T1	0	266	266	0	0.14	0.14	0.08	0.06	0	0	0	0	0	0
10/9/2024 20:48	50701	SMEC_T1	0	0	0	0	0	0	0.17	0.22	0	0	0	0	0	0
10/9/2024 20:48	46506	LOHA_T1	4	4	0	3.33	3.68	0.35	-0.24	-0.24	0	0	0	0	0	0
10/9/2024 20:48	45802	HEGI_T2	47	48	1	1.26	1.91	0.65	0.64	0.58	0	0	0	0	0	0
10/9/2024 20:48	44301	BEAV_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/9/2024 20:48	44801	EDAN_T2	313	305	-8	0.7	0.74	0.04	0	0	0	0	0	0	0	0
10/9/2024 20:48	46004	BERW_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
10/9/2024 20:48	54501	ENOL_T2	0	1	1	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0
10/9/2024 20:48	44802	EDAN_T2	1	1	0	0.2	0.2	0	-0.91	-0.89	0	0	0	0	0	0
10/9/2024 20:48	57201	ROSS_T1	212	403	191	0.36	0.46	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:48	57203	ROSS_T1	71	895	824	0.11	0.27	0.16	0	0	0	0	0	0	0	0
10/9/2024 20:48	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:48	58401	MORO_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
10/9/2024 20:48	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/9/2024 20:48	63804	HEMP_T1	1	1	0	5.5	5.6	0.1	0.76	0.78	0	0	0	0	0	0
10/9/2024 20:48	54602	SUMM_T2	0	0	0	0	0	0	-2.34	-2.45	1	1	0	600	600	0
10/9/2024 20:48	59101	WALK_T2	1	1	0	3.2	3.6	0.4	1.17	1.14	0	0	0	0	0	0
10/9/2024 20:48	54601	SUMM_T2	7	10	3	0.17	0.37	0.2	0	0	0	0	0	0	0	0
10/9/2024 20:48	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:49	44802	EDAN_T2	1	1	0	0.2	0.2	0	-0.91	-0.89	0	0	0	0	0	0
10/9/2024 20:49	58401	MORO_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
10/9/2024 20:49	57002	WHHI_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
10/9/2024 20:49	65001	NEFF_T2	37	195	158	0.12	0.22	0.1	0	0	0	0	0	0	0	0
10/9/2024 20:49	44801	EDAN_T2	313	305	-8	0.7	0.74	0.04	0	0	0	0	0	0	0	0
10/9/2024 20:49	65501	MOJO_T1	0	0	0	0	0	0	-1.26	-0.56	1	1	0	900	900	0
10/9/2024 20:49	41301	FISH_T1	1	2	1	0.6	1.1	0.5	-0.04	-0.08	0	0	0	0	0	0
10/9/2024 20:49	67402	WAKE_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
10/9/2024 20:49	57401	SPAN_T1	2	10	8	0.7	0.3	-0.4	-0.25	-0.34	0	0	0	0	0	0
10/9/2024 20:49	57403	SPAN_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
10/9/2024 20:49	65003	NEFF_T2	4	4	0	0.2	0.4	0.2	-1.5	-1.52	1	1	0	1200	1200	0
10/9/2024 20:49	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:49	58402	MORO_T1	0	0	0	0	0	0	0.32	0.33	1	1	0	900	900	0
10/9/2024 20:50	67201	TEHI_T1	0	0	0	0	0	0	0.01	0.05	1	1	0	900	900	0
10/9/2024 20:50	44301	BEAV_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/9/2024 20:50	57403	SPAN_T1	0	4	4	0	0.15	0.15	0.02	0.02	0	0	0	0	0	0
10/9/2024 20:50	44302	BEAV_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
10/9/2024 20:50	42902	MIDD_T2	0	0	0	0	0	0	-0.41	-0.37	0	0	0	0	0	0
10/9/2024 20:50	55105	WERT_T1	0	0	0	0	0	0	-0.67	-0.65	1	1	0	900	900	0
10/9/2024 20:50	62105	ELAN_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
10/9/2024 20:50	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:50	57401	SPAN_T1	2	10	8	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
10/9/2024 20:51	53501	EVIL_T2	0	1	1	0	0.1	0.1	-1.78	-1.63	2	2	0	1200	1200	0
10/9/2024 20:51	65502	MOJO_T2	303	316	13	0.36	0.38	0.02	-0.95	-1.04	0	0	0	0	0	0
10/9/2024 20:51	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:51	46506	LOHA_T1	4	4	0	3.33	3.68	0.35	-0.24	-0.24	0	0	0	0	0	0
10/9/2024 20:51	58401	MORO_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
10/9/2024 20:51	65503	MOJO_T2	246	261	15	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
10/9/2024 20:51	57004	WHHI_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
10/9/2024 20:51	67605	WARW_T1	14	14	0	0.47	0.54	0.07	-1.21	-1.17	0	0	0	0	0	0
10/9/2024 20:52	52004	LING_T2	2	2	0	6.05	6.25	0.2	0.1	0.1	0	0	0	0	0	0
10/9/2024 20:52	66501	SMAN_T2	22	28	6	0.11	0.14	0.03	0	0	0	0	0	0	0	0
10/9/2024 20:52	58401	MORO_T1	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
10/9/2024 20:52	52002	LING_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
10/9/2024 20:52	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/9/2024 20:52	52006	LING_T2	2	2	0	0.75	1.05	0.3	0	0	0	0	0	0	0	0
10/9/2024 20:52	66502	SMAN_T2	5	7	2	0.1	0.11	0.01	-0.16	-0.13	0	0	0	0	0	0
10/9/2024 20:52	66505	SMAN_T2	3	3	0	1.67	1.73	0.06	0	0	0	0	0	0	0	0
10/9/2024 20:52	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:52	54601	SUMM_T2	7	10	3	0.17	0.37	0.2	-0.97	-0.98	1	1	0	1200	1200	0
10/9/2024 20:52	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9/2024 20:53	66504	SMAN_T2	0	1	1	0	0.2	0.2	-0.55	-0.6	0	0	0	0	0	0
10/9/2024 20:53	66501	SMAN_T2	22	28	6	0.11	0.14	0.03	0	0	0	0	0	0	0	0
10/9/2024 20:53	66502	SMAN_T2	5	7	2	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/9/2024 20:53	44301	BEAV_T2	1	1	0	0.8	0.8	0	0.76	0.72	1	1	0	600	600	0
10/9/2024 20:53	66505	SMAN_T2	3	3	0	1.67	1.73	0.06	0	0	0	0	0	0	0	0
10/9/2024 20:55	54206	PENN_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
10/9/2024 20:58	13303	ORVI_T1	0	0	0	0	0	0	0.91	0.9	0	0	0	0	0	0
10/9/2024 20:59	42903	MIDD_T2	0	0	0	0	0	0	-0.36	-0.51	0	0	0	0	0	0
10/9/2024 21:00	57201	ROSS_T1	308	493	185	0.4	0.59	0.19	0	0	0	0	0	0	0	0
10/9/2024 21:00	57205	ROSS_T1	20	836	816	0.1	0.21	0.11	0	0	0	0	0	0	0	0
10/9/2024 21:00	50201	HARR_T3	1	1	0	0.1	0.3	0.2	0	0	1	1	0	1200	1200	0
10/9/2024 21:00	50202	HARR_T3	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/9/2024 21:00	50103	HARR_T3	2	2	0	0.7	1.05	0.35	0	0	0	0	0	0	0	0
10/9/2024 21:00	57203	ROSS_T1	482	1558	1076	0.17	0.33	0.16	0.35	0.34	0	0	0	0	0	0
10/9/2024 21:00	50105	HARR_T3	6	6	0	5.93	5.65	-0.28	0	0	0	0	0	0	0	0
10/9/2024 21:00	50102	HARR_T3	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
10/9/2024 21:00	50107	HARR_T3	1	1	0	6.4	6	-0.4	0	0	0	0	0	0	0	0
10/9/2024 21:04	67402	WAKE_T2	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
10/9/2024 21:34	43302	WATS_T2	4	4	0	0.55	0.73	0.18	0	0	0	0	0	0	0	0
10/9/2024 21:34	43304	WATS_T2	0	0	0	0	0	0	-0.4	-0.43	0	0	0	0	0	0
10/9/2024 21:40	62105	ELAN_T1	1	119	118	0.1	0.14	0.04	0.33	0.34	0	0	0	0	0	0
10/9/2024 21:40	62101	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/9/2024 21:40	62103	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/9/2024 21:40	62106	ELAN_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
10/9/2024 22:52	47401	PENS_T1	3	0	-3	0.1	0	-0.1	0.15	0.12	0	0	0	0	0	0
10/9/2024 22:52	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/10/2024 0:27	46802	HEPB_T1	1	1	0	0.2	0.3	0.1	-0.47	-0.45	0	0	0	0	0	0
10/10/2024 1:24	60101	COCA_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
10/10/2024 3:17	28403	HART_T2	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
10/10/2024 7:45	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 7:45	66505	SMAN_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
10/10/2024 8:08	64903	MILL_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
10/10/2024 8:11	57201	ROSS_T1	0	15	15	0	0.15	0.15	-1.31	-1.24	0	0	0	0	0	0
10/10/2024 8:12	12803	MICK_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/10/2024 8:12	12802	MICK_T1	0	0	0	0	0	0	-1.26	-1.28	0	0	0	0	0	0
10/10/2024 8:12	12807	MICK_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
10/10/2024 8:13	67605	WARW_T1	38	37	-1	0.56	0.59	0.03	0	0	0	0	0	0	0	0
10/10/2024 8:13	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/10/2024 8:14	67605	WARW_T1	38	37	-1	0.56	0.59	0.03	-1.1	-1.08	0	0	0	0	0	0
10/10/2024 8:15	48301	ORWI_T1	2	2	0	4.95	5.1	0.15	0	0	1	1	0	900	900	0
10/10/2024 8:17	64903	MILL_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
10/10/2024 8:20	63501	HEID_TBK1-2	31	32	1	0.26	0.21	-0.05	-0.02	-0.04	1	1	0	900	900	0
10/10/2024 8:21	63501	HEID_TBK1-2	31	32	1	0.26	0.21	-0.05	-0.04	0.01	1	1	0	900	900	0
10/10/2024 8:21	46206	DANV_T2	0	0	0	0	0	0	1	1	1	1	0	1200	1200	0
10/10/2024 8:21	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 8:24	63501	HEID_TBK1-2	31	32	1	0.26	0.21	-0.05	-0.04	0.01	1	1	0	900	900	0
10/10/2024 8:27	50501	MECH_T1	4	4	0	0.78	1.3	0.52	0	0	0	0	0	0	0	0
10/10/2024 8:27	50502	MECH_T1	1	122	121	2.3	0.25	-2.05	0	0	0	0	0	0	0	0
10/10/2024 8:27	50506	MECH_T1	0	0	0	0	0	0	-0.11	0.73	1	0	-1	900	0	-900
10/10/2024 8:27	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 8:33	11202	ELHE_T2	0	0	0	0	0	0	0.36	0.36	1	1	0	1200	1200	0
10/10/2024 8:36	23201	HIRU_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/10/2024 8:36	24702	FLND_T2	0	0	0	0	0	0	0.29	0.27	1	1	0	1200	1200	0
10/10/2024 8:37	41301	FISH_T1	2	2	0	1.5	1.7	0.2	-0.08	-0.08	0	0	0	0	0	0
10/10/2024 8:38	50501	MECH_T1	4	4	0	1.3	1.63	0.33	0	0	0	0	0	0	0	0
10/10/2024 8:38	50502	MECH_T1	121	130	9	0.25	0.46	0.21	1472.31	1472.53	1	1	0	900	900	0
10/10/2024 8:38	50505	MECH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/10/2024 8:38	41301	FISH_T1	2	2	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
10/10/2024 8:43	64902	MILL_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
10/10/2024 8:44	54205	PENN_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
10/10/2024 8:44	14201	EALL_T1	0	0	0	0	0	0	0.49	0.41	0	0	0	0	0	0
10/10/2024 8:44	54203	PENN_T1	18	21	3	1.22	1.25	0.03	0.94	0.89	0	0	0	0	0	0
10/10/2024 8:44	54201	PENN_T1	11	21	10	0.86	0.59	-0.27	0	0	0	0	0	0	0	0
10/10/2024 8:45	65601	QVIL_T2	0	0	0	0	0	0	-1.29	-1.24	1	1	0	900	900	0
10/10/2024 8:46	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/10/2024 8:46	60701	BREC_T1	0	0	0	0	0	0	-0.15	-0.13	2	2	0	1200	1200	0
10/10/2024 8:47	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 8:47	46203	DANV_T2	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
10/10/2024 8:47	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/10/2024 8:48	46004	BERW_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/10/2024 8:48	24104	EHAZ_T1	0	0	0	0	0	0	-0.89	-0.88	1	1	0	1200	1200	0
10/10/2024 8:48	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 8:48	46002	BERW_T2	0	0	0	0	0	0	-0.6	-0.47	1	1	0	900	900	0
10/10/2024 8:48	46203	DANV_T2	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
10/10/2024 8:48	24105	EHAZ_T1	4	4	0	5.73	5.83	0.1	0	0	0	0	0	0	0	0
10/10/2024 8:48	46206	DANV_T2	0	0	0	0	0	0	1	1.04	1	1	0	1200	1200	0
10/10/2024 8:49	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/10/2024 8:49	46004	BERW_T2	0	1	1	0	0.5	0.5	-0.11	-0.13	0	0	0	0	0	0
10/10/2024 8:49	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 8:49	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/10/2024 8:49	46002	BERW_T2	0	0	0	0	0	0	-0.6	-0.47	1	1	0	900	900	0
10/10/2024 8:49	53902	HALI_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
10/10/2024 8:49	46206	DANV_T2	0	0	0	0	0	0	4.01	4.16	4	4	0	4800	4800	0
10/10/2024 8:49	16004	DORN_T1	0	0	0	0	0	0	-1.26	-1.2	1	1	0	1200	1200	0
10/10/2024 8:49	60701	BREC_T1	0	0	0	0	0	0	-0.31	-0.25	4	4	0	2400	2400	0
10/10/2024 8:49	53903	HALI_T2	2	2	0	0.85	1.4	0.55	0	0	0	0	0	0	0	0
10/10/2024 8:50	46203	DANV_T2	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
10/10/2024 8:50	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 8:50	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/10/2024 8:50	61002	DONV_T2	0	0	0	0	0	0	-0.47	-0.6	1	1	0	600	600	0
10/10/2024 8:50	60701	BREC_T1	0	0	0	0	0	0	-0.31	-0.25	4	4	0	2400	2400	0
10/10/2024 8:50	53902	HALI_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
10/10/2024 8:50	53903	HALI_T2	2	2	0	0.85	1.4	0.55	0	0	0	0	0	0	0	0
10/10/2024 8:51	61503	EPET_T1	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
10/10/2024 8:51	53902	HALI_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
10/10/2024 8:51	53903	HALI_T2	2	2	0	0.85	1.4	0.55	0	0	0	0	0	0	0	0
10/10/2024 8:51	61502	EPET_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/10/2024 8:51	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/10/2024 8:51	46002	BERW_T2	0	0	0	0	0	0	-0.95	-1.34	2	2	0	1800	1800	0
10/10/2024 8:51	46206	DANV_T2	0	0	0	0	0	0	2.08	2.06	2	2	0	2400	2400	0
10/10/2024 8:51	50625	CCTY_T2	6	6	0	2.43	2.38	-0.05	0	0	0	0	0	0	0	0
10/10/2024 8:51	50623	CCTY_T2	5	5	0	5.68	5.98	0.3	0	0	0	0	0	0	0	0
10/10/2024 8:51	46004	BERW_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/10/2024 8:51	63501	HEID_TBK1-2	26	34	8	0.22	0.23	0.01	0.04	0.17	1	1	0	900	900	0
10/10/2024 8:51	64204	KINZ_T1	1	14	13	1.2	0.35	-0.85	0	0	0	0	0	0	0	0
10/10/2024 8:51	16004	DORN_T1	0	0	0	0	0	0	-1.26	-1.2	1	1	0	1200	1200	0
10/10/2024 8:51	64202	KINZ_T1	2	3	1	0.2	0.77	0.57	0	0	0	0	0	0	0	0
10/10/2024 8:51	46203	DANV_T2	0	0	0	0	0	0	-0.84	0.42	0	0	0	0	0	0
10/10/2024 8:51	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 8:51	50624	CCTY_T2	2	2	0	5.5	5.5	0	0	0	0	0	0	0	0	0
10/10/2024 8:51	61301	EARL_T1	0	0	0	0	0	0	-1.1	-1.13	2	2	0	1800	1800	0
10/10/2024 8:51	64203	KINZ_T1	0	0	0	0	0	0	0.8	0.71	2	2	0	900	900	0
10/10/2024 8:51	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 8:52	53902	HALI_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
10/10/2024 8:52	46203	DANV_T2	0	0	0	0	0	0	-0.84	0.42	0	0	0	0	0	0
10/10/2024 8:52	12006	HATF_T1	0	0	0	0	0	0	0.8	0.87	1	1	0	1200	1200	0
10/10/2024 8:52	45702	LIND_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
10/10/2024 8:52	45701	LIND_T2	0	0	0	0	0	0	-1.69	-1.69	0	0	0	0	0	0
10/10/2024 8:52	24102	EHAZ_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
10/10/2024 8:52	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 8:52	24105	EHAZ_T1	4	4	0	5.73	5.83	0.1	0	0	0	0	0	0	0	0
10/10/2024 8:52	24104	EHAZ_T1	0	0	0	0	0	0	-0.88	-0.87	1	1	0	1200	1200	0
10/10/2024 8:52	53501	EVIL_T2	1	2	1	0.7	0.75	0.05	-0.05	-0.06	2	2	0	1200	1200	0
10/10/2024 8:52	45802	HEGI_T2	7	27	20	0.2	0.42	0.22	1.21	1.13	0	0	0	0	0	0
10/10/2024 8:52	53903	HALI_T2	2	2	0	0.85	1.4	0.55	0	0	0	0	0	0	0	0
10/10/2024 8:52	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/10/2024 8:53	24104	EHAZ_T1	0	0	0	0	0	0	-0.88	-0.87	1	1	0	1200	1200	0
10/10/2024 8:53	24105	EHAZ_T1	4	4	0	5.73	5.83	0.1	-0.9	-0.88	0	0	0	0	0	0
10/10/2024 8:53	45802	HEGI_T2	7	27	20	0.2	0.42	0.22	1.21	1.13	0	0	0	0	0	0
10/10/2024 8:54	63501	HEID_TBK1-2	26	34	8	0.22	0.23	0.01	0.04	0.17	1	1	0	900	900	0
10/10/2024 8:54	47203	PAXO_T2	0	1	1	0	0	0	0	0	1	0	-1	1200	0	-1200
10/10/2024 8:54	51002	NHAR_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
10/10/2024 8:54	51004	NHAR_T1	2	3	1	5.85	3.9	-1.95	-0.58	-0.59	0	0	0	0	0	0
10/10/2024 8:55	49803	UNIV_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
10/10/2024 8:55	49804	UNIV_T1	1	1	0	0.5	0.5	0	1.29	1.4	0	0	0	0	0	0
10/10/2024 8:55	40101	HUNT_T2	1	1	0	0.2	0	-0.2	-0.76	-0.75	0	0	0	0	0	0
10/10/2024 8:55	13003	NBET_T2	0	0	0	0	0	0	-0.64	-0.67	0	0	0	0	0	0
10/10/2024 8:55	45702	LIND_T2	1	1	0	0.7	0.9	0.2	-0.45	-0.47	0	0	0	0	0	0
10/10/2024 8:56	44201	POIN_T1	0	18	18	0	0.11	0.11	-1.36	-1.61	2	2	0	2100	2100	0
10/10/2024 8:57	52502	PROG_T2	0	1	1	0	0.2	0.2	0	8.34	1	1	0	900	900	0
10/10/2024 8:57	44201	POIN_T1	0	18	18	0	0.11	0.11	-1.36	-1.61	2	2	0	2100	2100	0
10/10/2024 8:58	44201	POIN_T1	0	18	18	0	0.11	0.11	-2.71	-3.23	4	4	0	4200	4200	0
10/10/2024 8:59	44201	POIN_T1	0	18	18	0	0.11	0.11	-4.07	-4.84	6	6	0	6300	6300	0
10/10/2024 8:59	24801	VALM_T1	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
10/10/2024 8:59	44902	SCOT_T2	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
10/10/2024 9:01	67605	WARW_T1	37	47	10	0.55	0.64	0.09	0	0	0	0	0	0	0	0
10/10/2024 9:01	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 9:02	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/10/2024 9:02	62607	ENGL_T1	1	5	4	0.7	0.26	-0.44	0	0	0	0	0	0	0	0
10/10/2024 9:02	62605	ENGL_T1	1	8	7	0.2	0.2	0	-0.93	-0.92	0	0	0	0	0	0
10/10/2024 9:03	62605	ENGL_T1	1	8	7	0.2	0.2	0	-0.93	-0.92	0	0	0	0	0	0
10/10/2024 9:03	62606	ENGL_T1	0	1	1	0	0.1	0.1	-0.97	-0.95	1	1	0	900	900	0
10/10/2024 9:03	62607	ENGL_T1	1	5	4	0.7	0.26	-0.44	0	0	0	0	0	0	0	0
10/10/2024 9:03	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 9:03	42701	AUGU_T1	1	1	0	0.9	1	0.1	0	0	2	2	0	1800	1800	0
10/10/2024 9:04	62607	ENGL_T1	1	5	4	0.7	0.26	-0.44	-1.2	-1.21	1	1	0	300	300	0
10/10/2024 9:04	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/10/2024 9:04	62605	ENGL_T1	1	8	7	0.2	0.2	0	0	0	0	0	0	0	0	0
10/10/2024 9:05	63804	HEMP_T1	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
10/10/2024 9:05	63803	HEMP_T1	0	5	5	0	0.28	0.28	0	0.05	0	0	0	0	0	0
10/10/2024 9:05	62606	ENGL_T1	0	1	1	0	0.1	0.1	-0.97	-0.95	1	1	0	900	900	0
10/10/2024 9:05	63801	HEMP_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
10/10/2024 9:05	62607	ENGL_T1	1	5	4	0.7	0.26	-0.44	-2.41	-2.42	2	2	0	600	600	0
10/10/2024 9:05	62605	ENGL_T1	1	8	7	0.2	0.2	0	0	0	0	0	0	0	0	0
10/10/2024 9:05	63802	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/10/2024 9:06	62605	ENGL_T1	1	8	7	0.2	0.2	0	0	0	0	0	0	0	0	0
10/10/2024 9:06	62607	ENGL_T1	1	5	4	0.7	0.26	-0.44	-1.21	-1.21	1	1	0	300	300	0
10/10/2024 9:06	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/10/2024 9:07	63804	HEMP_T1	1	1	0	5.8	5.5	-0.3	0.84	0.91	0	0	0	0	0	0
10/10/2024 9:07	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
10/10/2024 9:07	63803	HEMP_T1	0	5	5	0	0.28	0.28	0	0	0	0	0	0	0	0
10/10/2024 9:07	21501	CEAV_T2	0	0	0	0	0	0	1.07	1.06	0	0	0	0	0	0
10/10/2024 9:07	63802	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/10/2024 9:07	63801	HEMP_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
10/10/2024 9:08	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
10/10/2024 9:09	62607	ENGL_T1	1	5	4	0.7	0.26	-0.44	-2.42	-2.42	2	2	0	600	600	0
10/10/2024 9:09	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/10/2024 9:09	62605	ENGL_T1	1	8	7	0.2	0.2	0	0	0	0	0	0	0	0	0
10/10/2024 9:10	46506	LOHA_T1	4	4	0	3.33	3.65	0.32	0	0	0	0	0	0	0	0
10/10/2024 9:10	46504	LOHA_T1	2	3	1	0.15	0.37	0.22	0	0	0	0	0	0	0	0
10/10/2024 9:10	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
10/10/2024 9:12	46501	LOHA_T1	0	0	0	0	0	0	-0.12	-0.11	1	1	0	1200	1200	0
10/10/2024 9:12	46504	LOHA_T1	2	3	1	0.15	0.37	0.22	0	0	0	0	0	0	0	0
10/10/2024 9:12	40603	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 9:12	40602	PIGR_T1	1	2	1	1	0.5	-0.5	0	0	0	0	0	0	0	0
10/10/2024 9:12	40601	PIGR_T1	250	281	31	0.58	0.66	0.08	0	0	0	0	0	0	0	0
10/10/2024 9:12	46506	LOHA_T1	4	4	0	3.33	3.65	0.32	0	0	0	0	0	0	0	0
10/10/2024 9:13	63501	HEID_TBK1-2	28	29	1	0.21	0.28	0.07	0.17	0.16	1	1	0	900	900	0
10/10/2024 9:13	40601	PIGR_T1	250	281	31	0.58	0.66	0.08	0	0	0	0	0	0	0	0
10/10/2024 9:13	40603	PIGR_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
10/10/2024 9:13	40602	PIGR_T1	1	2	1	1	0.5	-0.5	0	0	0	0	0	0	0	0
10/10/2024 9:14	15203	SFAR_T2	0	2	2	0	0.35	0.35	-1.44	-1.43	0	0	0	0	0	0
10/10/2024 9:15	40602	PIGR_T1	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/10/2024 9:15	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/10/2024 9:15	40601	PIGR_T1	275	258	-17	0.62	0.7	0.08	0	0	0	0	0	0	0	0
10/10/2024 9:16	54203	PENN_T1	18	19	1	1.34	1.31	-0.03	0.95	0.94	0	0	0	0	0	0
10/10/2024 9:16	54205	PENN_T1	21	10	-11	0.1	0.1	0	0	0	0	0	0	0	0	0
10/10/2024 9:16	54201	PENN_T1	17	11	-6	0.69	0.94	0.25	0	0	0	0	0	0	0	0
10/10/2024 9:17	64602	LEOL_T1	0	0	0	0	0	0	0.22	0.28	0	0	0	0	0	0
10/10/2024 9:17	45901	AUBU_T1	0	0	0	0	0	0	1.59	1.74	0	0	0	0	0	0
10/10/2024 9:19	67605	WARW_T1	43	44	1	0.67	0.59	-0.08	-1.18	-1.12	0	0	0	0	0	0
10/10/2024 9:19	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 9:19	44502	HAMI_T2	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
10/10/2024 9:22	44505	HAMI_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
10/10/2024 9:22	44502	HAMI_T2	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
10/10/2024 9:23	28704	HAML_T2	126	164	38	0.27	0.55	0.28	-0.88	-0.89	0	0	0	0	0	0
10/10/2024 9:24	44502	HAMI_T2	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
10/10/2024 9:24	44505	HAMI_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
10/10/2024 9:24	58401	MORO_T1	0	0	0	0	0	0	-0.49	-0.46	0	0	0	0	0	0
10/10/2024 9:25	58401	MORO_T1	0	0	0	0	0	0	-0.49	-0.46	0	0	0	0	0	0
10/10/2024 9:26	64101	REFR_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/10/2024 9:28	15203	SFAR_T2	1	2	1	0.1	0.35	0.25	-1.43	-1.42	0	0	0	0	0	0
10/10/2024 9:30	66501	SMAN_T2	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
10/10/2024 9:30	66502	SMAN_T2	3	2	-1	0.17	0.3	0.13	0	0	0	0	0	0	0	0
10/10/2024 9:30	66504	SMAN_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/10/2024 9:30	66505	SMAN_T2	2	2	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/10/2024 9:31	66505	SMAN_T2	2	2	0	0.3	0.1	-0.2	0.03	0.08	1	1	0	900	900	0
10/10/2024 9:31	14801	TREI_T2	0	1	1	0	0.3	0.3	0.35	0.34	0	0	0	0	0	0
10/10/2024 9:31	14802	TREI_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 9:31	66501	SMAN_T2	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
10/10/2024 9:31	66502	SMAN_T2	3	2	-1	0.17	0.3	0.13	0	0	0	0	0	0	0	0
10/10/2024 9:31	60201	ATGL_T2	97	109	12	0.25	0.35	0.1	-0.39	-0.41	0	0	0	0	0	0
10/10/2024 9:31	66504	SMAN_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
10/10/2024 9:33	61801	EELI_T2	1	2	1	0.1	0.15	0.05	-0.81	-0.82	1	1	0	600	600	0
10/10/2024 9:34	54502	ENOL_T2	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
10/10/2024 9:34	54505	ENOL_T2	1	1	0	1	0.5	-0.5	-1.35	-1.38	1	1	0	600	600	0
10/10/2024 9:34	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/10/2024 9:36	11203	ELHE_T1	0	0	0	0	0	0	1	0.96	0	0	0	0	0	0
10/10/2024 9:36	54505	ENOL_T2	1	1	0	1	0.5	-0.5	-1.35	-1.38	1	1	0	600	600	0
10/10/2024 9:36	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/10/2024 9:36	54502	ENOL_T2	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
10/10/2024 9:38	66501	SMAN_T2	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
10/10/2024 9:38	54502	ENOL_T2	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
10/10/2024 9:38	66505	SMAN_T2	2	2	0	0.3	0.1	-0.2	0.08	0.07	1	1	0	900	900	0
10/10/2024 9:38	66504	SMAN_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
10/10/2024 9:38	52004	LING_T2	4	5	1	3.28	2.78	-0.5	0.22	0.26	0	0	0	0	0	0
10/10/2024 9:38	28704	HAMI_T2	163	171	8	0.51	0.61	0.1	-0.89	-0.9	0	0	0	0	0	0
10/10/2024 9:38	66502	SMAN_T2	3	2	-1	0.17	0.3	0.13	0	0	0	0	0	0	0	0
10/10/2024 9:38	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	0.09	0.09	0	0	0	0	0	0
10/10/2024 9:38	52002	LING_T2	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
10/10/2024 9:38	54505	ENOL_T2	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
10/10/2024 9:38	52006	LING_T2	2	2	0	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
10/10/2024 9:39	52002	LING_T2	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
10/10/2024 9:39	52006	LING_T2	2	2	0	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
10/10/2024 9:39	52004	LING_T2	4	5	1	3.28	2.78	-0.5	0.43	0.51	0	0	0	0	0	0
10/10/2024 9:41	52001	LING_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
10/10/2024 9:43	65602	QVIL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/10/2024 9:43	50701	SMEC_T1	1	3	2	0.2	0.23	0.03	0.06	0.15	0	0	0	0	0	0
10/10/2024 9:43	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 9:46	54505	ENOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/10/2024 9:46	54502	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/10/2024 9:46	54506	ENOL_T2	0	0	0	0	0	0	0.42	0.48	1	1	0	600	600	0
10/10/2024 9:47	50701	SMEC_T1	2	4	2	0.15	0.5	0.35	0.06	0.15	0	0	0	0	0	0
10/10/2024 9:54	42902	MIDD_T2	2	0	-2	0.15	0	-0.15	-0.3	-0.29	1	1	0	600	600	0
10/10/2024 9:55	62605	ENGL_T1	14	8	-6	0.22	0.3	0.08	0	0	0	0	0	0	0	0
10/10/2024 9:55	62606	ENGL_T1	26	4	-22	0.1	0.1	0	0	0	0	0	0	0	0	0
10/10/2024 9:55	62607	ENGL_T1	46	15	-31	0.13	0.21	0.08	-0.87	-0.87	0	0	0	0	0	0
10/10/2024 9:55	62602	ENGL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/10/2024 9:56	64305	LINC_T1	1	1	0	0.1	0.4	0.3	-0.19	-0.17	0	0	0	0	0	0
10/10/2024 9:59	67503	WEWI_T2	1	2	1	9.6	4.85	-4.75	0	0	0	0	0	0	0	0
10/10/2024 9:59	67502	WEWI_T2	52	60	8	0.2	0.21	0.01	-0.56	-0.56	0	0	0	0	0	0
10/10/2024 10:00	50103	HARR_T3	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/10/2024 10:00	57002	WHHI_T2	14	6	-8	0.21	0.2	-0.01	-1.61	-1.57	0	0	0	0	0	0
10/10/2024 10:00	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/10/2024 10:00	17002	RIRO_T2	3	3	0	0.5	0.37	-0.13	0.6	0.62	0	0	0	0	0	0
10/10/2024 10:00	59001	MIFF_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/10/2024 10:00	24105	EHAZ_T1	4	4	0	6.05	5.98	-0.07	0	0	0	0	0	0	0	0
10/10/2024 10:00	44505	HAMI_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
10/10/2024 10:00	67503	WEWI_T2	2	2	0	4.85	4.9	0.05	-0.53	-0.46	0	0	0	0	0	0
10/10/2024 10:00	57205	ROSS_T1	8	6	-2	0.45	0.6	0.15	0	0	0	0	0	0	0	0
10/10/2024 10:00	66303	MCGO_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/10/2024 10:00	54502	ENOL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/10/2024 10:00	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	-1.37	-1.36	1	1	0	600	600	0
10/10/2024 10:00	57203	ROSS_T1	13	2	-11	0.18	0.15	-0.03	0.28	0.3	0	0	0	0	0	0
10/10/2024 10:00	50107	HARR_T3	1	1	0	7.3	6.3	-1	0	0	0	0	0	0	0	0
10/10/2024 10:00	24102	EHAZ_T1	0	0	0	0	0	0	-0.08	-0.03	0	0	0	0	0	0
10/10/2024 10:00	57201	ROSS_T1	160	83	-77	0.29	0.21	-0.08	0	0	0	0	0	0	0	0
10/10/2024 10:00	23203	HIRU_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 10:00	24104	EHAZ_T1	0	0	0	0	0	0	-0.84	-0.87	1	1	0	1200	1200	0
10/10/2024 10:00	66302	MCGO_T2	77	44	-33	0.13	0.17	0.04	-0.6	-0.67	1	1	0	600	600	0
10/10/2024 10:00	59003	MIFF_T1	0	1	1	0	0.3	0.3	-0.59	-0.62	0	0	0	0	0	0
10/10/2024 10:00	11203	ELHE_T1	0	0	0	0	0	0	0.96	0.95	0	0	0	0	0	0
10/10/2024 10:00	57003	WHHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/10/2024 10:00	50202	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 10:00	44502	HAMI_T2	1	1	0	2.7	2.6	-0.1	0	0	0	0	0	0	0	0
10/10/2024 10:00	46004	BERW_T2	0	1	1	0	0	0	-0.23	-0.21	0	0	0	0	0	0
10/10/2024 10:00	14201	EALL_T1	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
10/10/2024 10:00	24101	EHAZ_T1	0	9	9	0	0.25	0.25	0	0	0	0	0	0	0	0
10/10/2024 10:00	59002	MIFF_T1	0	6	6	0	0.43	0.43	0	0	0	0	0	0	0	0
10/10/2024 10:00	54501	ENOL_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
10/10/2024 10:00	50105	HARR_T3	6	6	0	5.55	5.43	-0.12	0	0	0	0	0	0	0	0
10/10/2024 10:00	40505	CRES_T1	0	1	1	0	0	0	0.4	0.41	0	0	0	0	0	0
10/10/2024 10:00	67502	WEWI_T2	47	123	76	0.22	0.23	0.01	-0.56	-0.56	0	0	0	0	0	0
10/10/2024 10:00	23201	HIRU_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
10/10/2024 10:00	40504	CRES_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/10/2024 10:00	46002	BERW_T2	0	0	0	0	0	0	-1.36	-1.46	2	2	0	1800	1800	0
10/10/2024 10:02	67501	WEWI_T1	6	9	3	0.6	0.74	0.14	0	0	0	0	0	0	0	0
10/10/2024 10:02	67505	WEWI_T1	3	3	0	0.47	0.53	0.06	-0.34	-0.26	1	1	0	900	900	0
10/10/2024 10:03	67501	WEWI_T1	6	9	3	0.6	0.74	0.14	0	0	0	0	0	0	0	0
10/10/2024 10:03	67502	WEWI_T2	47	123	76	0.22	0.23	0.01	-0.28	-0.28	0	0	0	0	0	0
10/10/2024 10:03	67503	WEWI_T2	2	2	0	4.85	4.9	0.05	0	0	0	0	0	0	0	0
10/10/2024 10:03	67505	WEWI_T1	3	3	0	0.47	0.53	0.06	-0.34	-0.26	1	1	0	900	900	0
10/10/2024 10:04	67503	WEWI_T2	2	2	0	4.85	4.9	0.05	0	0	0	0	0	0	0	0
10/10/2024 10:04	67501	WEWI_T1	6	9	3	0.6	0.74	0.14	0	0	0	0	0	0	0	0
10/10/2024 10:04	67505	WEWI_T1	3	3	0	0.47	0.53	0.06	0	0	0	0	0	0	0	0
10/10/2024 10:04	67504	WEWI_T1	0	0	0	0	0	0	1.29	1.21	0	0	0	0	0	0
10/10/2024 10:04	67502	WEWI_T2	47	123	76	0.22	0.23	0.01	-0.28	-0.28	0	0	0	0	0	0
10/10/2024 10:06	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 10:06	46002	BERW_T2	0	0	0	0	0	0	-0.73	-0.58	1	1	0	900	900	0
10/10/2024 10:06	23203	HIRU_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 10:06	23202	HIRU_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
10/10/2024 10:07	54502	ENOL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/10/2024 10:07	24104	EHAZ_T1	0	0	0	0	0	0	-0.87	-0.85	1	1	0	1200	1200	0
10/10/2024 10:07	46002	BERW_T2	0	0	0	0	0	0	-0.73	-0.58	1	1	0	900	900	0
10/10/2024 10:07	24101	EHAZ_T1	0	9	9	0	0.25	0.25	0	0	0	0	0	0	0	0
10/10/2024 10:07	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/10/2024 10:07	24105	EHAZ_T1	4	4	0	6.05	5.98	-0.07	0	0	0	0	0	0	0	0
10/10/2024 10:07	40703	FFLD_T1	4	4	0	0.55	0.73	0.18	0.29	0.31	0	0	0	0	0	0
10/10/2024 10:07	40701	FFLD_T1	62	65	3	0.43	0.56	0.13	0	0	0	0	0	0	0	0
10/10/2024 10:07	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 10:07	40702	FFLD_T1	19	108	89	0.22	0.25	0.03	0	0	0	0	0	0	0	0
10/10/2024 10:07	54506	ENOL_T2	0	0	0	0	0	0	0.4	0.48	1	1	0	600	600	0
10/10/2024 10:08	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	-1.36	-1.38	1	1	0	600	600	0
10/10/2024 10:08	28102	TWLA_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
10/10/2024 10:08	54502	ENOL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/10/2024 10:09	42902	MIDD_T2	0	0	0	0	0	0	-0.29	-0.31	1	1	0	600	600	0
10/10/2024 10:09	65503	MOJO_T2	0	2	2	0	0.15	0.15	-0.04	-0.07	0	0	0	0	0	0
10/10/2024 10:10	44502	HAMI_T2	1	1	0	2.7	2.6	-0.1	0	0	0	0	0	0	0	0
10/10/2024 10:10	44505	HAMI_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
10/10/2024 10:10	64204	KINZ_T1	5	1	-4	0.7	1.3	0.6	0	0	0	0	0	0	0	0
10/10/2024 10:10	64203	KINZ_T1	0	0	0	0	0	0	0.94	0.95	2	2	0	900	900	0
10/10/2024 10:10	64202	KINZ_T1	3	3	0	0.57	1.13	0.56	0	0	0	0	0	0	0	0
10/10/2024 10:12	66502	SMAN_T2	2	6	4	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/10/2024 10:12	66505	SMAN_T2	2	4	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0
10/10/2024 10:12	66501	SMAN_T2	2	2	0	0.85	1.15	0.3	0	0	0	0	0	0	0	0
10/10/2024 10:12	66504	SMAN_T2	1	2	1	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
10/10/2024 10:13	14801	TREI_T2	1	0	-1	0.3	0	-0.3	0.34	0.35	0	0	0	0	0	0
10/10/2024 10:14	54601	SUMM_T2	8	4	-4	0.24	0.25	0.01	0	0	0	0	0	0	0	0
10/10/2024 10:14	54603	SUMM_T2	0	0	0	0	0	0	-0.44	-0.41	1	1	0	900	900	0
10/10/2024 10:15	13704	SCHN_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
10/10/2024 10:15	66502	SMAN_T2	1	10	9	0.6	0.27	-0.33	0	0	0	0	0	0	0	0
10/10/2024 10:15	66504	SMAN_T2	1	2	1	0.8	0.65	-0.15	-0.86	-0.7	0	0	0	0	0	0
10/10/2024 10:15	66505	SMAN_T2	1	4	3	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
10/10/2024 10:15	57004	WHHI_T2	0	0	0	0	0	0	-0.42	-0.46	0	0	0	0	0	0
10/10/2024 10:15	57002	WHHI_T2	3	6	3	0.17	0.22	0.05	0	0	0	0	0	0	0	0
10/10/2024 10:15	66501	SMAN_T2	2	2	0	0.9	1.15	0.25	0	0	0	0	0	0	0	0
10/10/2024 10:15	13701	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/10/2024 10:15	57003	WHHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/10/2024 10:16	57003	WHHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/10/2024 10:16	66502	SMAN_T2	1	10	9	0.6	0.27	-0.33	0.45	0.32	0	0	0	0	0	0
10/10/2024 10:16	66501	SMAN_T2	2	2	0	0.9	1.15	0.25	0	0	0	0	0	0	0	0
10/10/2024 10:16	57203	ROSS_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
10/10/2024 10:16	66504	SMAN_T2	1	2	1	0.8	0.65	-0.15	-0.43	-0.35	0	0	0	0	0	0
10/10/2024 10:16	57205	ROSS_T1	4	6	2	0.65	0.77	0.12	0	0	0	0	0	0	0	0
10/10/2024 10:16	66505	SMAN_T2	1	4	3	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
10/10/2024 10:16	14801	TREI_T2	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
10/10/2024 10:16	66503	SMAN_T2	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
10/10/2024 10:16	57002	WHHI_T2	3	6	3	0.17	0.22	0.05	-1.57	-1.56	0	0	0	0	0	0
10/10/2024 10:16	57201	ROSS_T1	69	72	3	0.21	0.21	0	-1.25	-1.22	0	0	0	0	0	0
10/10/2024 10:17	57004	WHHI_T2	0	0	0	0	0	0	-0.42	-0.46	0	0	0	0	0	0
10/10/2024 10:17	57002	WHHI_T2	3	6	3	0.17	0.22	0.05	0	0	0	0	0	0	0	0
10/10/2024 10:17	57003	WHHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/10/2024 10:18	57403	SPAN_T1	166	171	5	0.48	0.49	0.01	0.02	0	0	0	0	0	0	0
10/10/2024 10:18	60801	BUCK_T1	1	1	0	0.2	0.4	0.2	-0.58	-0.5	1	1	0	600	600	0
10/10/2024 10:18	57205	ROSS_T1	4	6	2	0.65	0.77	0.12	0	0	0	0	0	0	0	0
10/10/2024 10:18	57006	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 10:18	66505	SMAN_T2	1	4	3	0.5	0.3	-0.2	0.13	0.06	1	1	0	900	900	0
10/10/2024 10:18	66502	SMAN_T2	1	10	9	0.6	0.27	-0.33	0.45	0.32	0	0	0	0	0	0
10/10/2024 10:18	66504	SMAN_T2	1	2	1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
10/10/2024 10:18	57401	SPAN_T1	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
10/10/2024 10:18	24801	VALM_T1	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
10/10/2024 10:18	57203	ROSS_T1	0	4	4	0	0.13	0.13	0.6	0.6	0	0	0	0	0	0
10/10/2024 10:18	57002	WHHI_T2	3	6	3	0.17	0.22	0.05	-1.57	-1.56	0	0	0	0	0	0
10/10/2024 10:18	57201	ROSS_T1	69	72	3	0.21	0.21	0	0	0	0	0	0	0	0	0
10/10/2024 10:18	57003	WHHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/10/2024 10:18	66501	SMAN_T2	2	2	0	0.9	1.15	0.25	0	0	0	0	0	0	0	0
10/10/2024 10:19	57003	WHHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/10/2024 10:19	57002	WHHI_T2	3	6	3	0.17	0.22	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/10/2024 10:20	57205	ROSS_T1	4	6	2	0.65	0.77	0.12	0.17	0.18	0	0	0	0	0	0
10/10/2024 10:20	57403	SPAN_T1	166	171	5	0.48	0.49	0.01	0.02	0	0	0	0	0	0	0
10/10/2024 10:20	57203	ROSS_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
10/10/2024 10:20	53501	EVIL_T2	2	3	1	0.35	0.3	-0.05	0.12	0.01	6	6	0	3600	3600	0
10/10/2024 10:20	10801	CHHI_T1	0	2	2	0	0.45	0.45	-0.96	-0.96	1	1	0	900	900	0
10/10/2024 10:20	57201	ROSS_T1	69	72	3	0.21	0.21	0	-1.25	-1.22	0	0	0	0	0	0
10/10/2024 10:20	57401	SPAN_T1	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
10/10/2024 10:21	57205	ROSS_T1	4	6	2	0.65	0.77	0.12	0	0	0	0	0	0	0	0
10/10/2024 10:21	41301	FISH_T1	2	3	1	1.95	1.6	-0.35	0	0	0	0	0	0	0	0
10/10/2024 10:21	57201	ROSS_T1	69	72	3	0.21	0.21	0	0	0	0	0	0	0	0	0
10/10/2024 10:21	57402	SPAN_T2	0	0	0	0	0	0	-1.22	-1.21	0	0	0	0	0	0
10/10/2024 10:21	57203	ROSS_T1	0	4	4	0	0.13	0.13	0.3	0.3	0	0	0	0	0	0
10/10/2024 10:22	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
10/10/2024 10:22	41301	FISH_T1	2	3	1	1.95	1.6	-0.35	-0.04	-0.07	0	0	0	0	0	0
10/10/2024 10:22	25402	LAHA_T2	0	0	0	0	0	0	-0.92	-0.89	0	0	0	0	0	0
10/10/2024 10:23	64305	LINC_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
10/10/2024 10:23	53501	EVIL_T2	2	3	1	0.35	0.3	-0.05	0.01	0.11	4	4	0	2400	2400	0
10/10/2024 10:23	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
10/10/2024 10:23	41301	FISH_T1	2	3	1	1.95	1.6	-0.35	-0.04	-0.07	0	0	0	0	0	0
10/10/2024 10:24	58402	MORO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/10/2024 10:24	58401	MORO_T1	0	0	0	0	0	0	-0.47	-0.51	0	0	0	0	0	0
10/10/2024 10:24	41301	FISH_T1	2	3	1	1.95	1.6	-0.35	-0.04	-0.07	0	0	0	0	0	0
10/10/2024 10:24	64704	LITI_T1	0	0	0	0	0	0	0.31	0.4	1	1	0	600	600	0
10/10/2024 10:25	65005	NEFF_T2	2	2	0	0.35	0.7	0.35	0	0	0	0	0	0	0	0
10/10/2024 10:25	65001	NEFF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/10/2024 10:25	65004	NEFF_T2	1	2	1	0.2	0.4	0.2	-0.53	-0.54	0	0	0	0	0	0
10/10/2024 10:25	65003	NEFF_T2	2	8	6	0.15	0.25	0.1	0	0	0	0	0	0	0	0
10/10/2024 10:25	64704	LITI_T1	0	0	0	0	0	0	0.31	0.4	1	1	0	600	600	0
10/10/2024 10:26	58402	MORO_T1	0	1	1	0	0.3	0.3	-0.15	-0.13	2	2	0	1500	1500	0
10/10/2024 10:27	55002	NEWP_T1	7	10	3	1.3	1.14	-0.16	-0.17	-0.21	0	0	0	0	0	0
10/10/2024 10:27	65601	QVIL_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
10/10/2024 10:27	58401	MORO_T1	0	0	0	0	0	0	-0.47	-0.51	0	0	0	0	0	0
10/10/2024 10:27	58402	MORO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/10/2024 10:27	65602	QVIL_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/10/2024 10:27	65604	QVIL_T2	0	0	0	0	0	0	0.25	0.29	0	0	0	0	0	0
10/10/2024 10:27	55101	WERT_T1	0	0	0	0	0	0	-0.8	-0.84	1	1	0	600	600	0
10/10/2024 10:28	65001	NEFF_T2	1	1	0	0.1	0.2	0.1	-0.73	-0.63	1	1	0	1200	1200	0
10/10/2024 10:28	65004	NEFF_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/10/2024 10:28	65005	NEFF_T2	2	2	0	0.35	0.7	0.35	0	0	0	0	0	0	0	0
10/10/2024 10:28	65003	NEFF_T2	2	8	6	0.15	0.25	0.1	0	0	0	0	0	0	0	0
10/10/2024 10:29	54601	SUMM_T2	2	4	2	0.4	0.3	-0.1	-0.97	-0.93	1	1	0	1200	1200	0
10/10/2024 10:30	15203	SFAR_T2	0	1	1	0	0.2	0.2	-1.4	-1.38	0	0	0	0	0	0
10/10/2024 10:30	14801	TREI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/10/2024 10:30	14802	TREI_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
10/10/2024 10:32	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 10:33	45902	AUBU_T1	0	0	0	0	0	0	0.09	0.16	1	1	0	600	600	0
10/10/2024 10:34	45902	AUBU_T1	0	0	0	0	0	0	0.09	0.16	1	1	0	600	600	0
10/10/2024 10:36	63802	HEMP_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
10/10/2024 10:36	63803	HEMP_T1	5	1	-4	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
10/10/2024 10:36	63804	HEMP_T1	1	1	0	5.6	6.1	0.5	0	0	0	0	0	0	0	0
10/10/2024 10:36	63801	HEMP_T1	5	1	-4	0.28	0.1	-0.18	0.1	0.27	0	0	0	0	0	0
10/10/2024 10:37	40601	PIGR_T1	187	251	64	0.43	0.64	0.21	0	0	0	0	0	0	0	0
10/10/2024 10:37	61001	DONV_T1	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
10/10/2024 10:37	40603	PIGR_T1	2	3	1	0.5	0.67	0.17	0	0	0	0	0	0	0	0
10/10/2024 10:37	40602	PIGR_T1	2	3	1	0.9	0.37	-0.53	0	0	0	0	0	0	0	0
10/10/2024 10:38	64305	LINC_T1	1	1	0	0.5	0.8	0.3	-0.19	-0.14	0	0	0	0	0	0
10/10/2024 10:40	64101	REFR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/10/2024 10:42	64101	REFR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/10/2024 10:43	63501	HEID_TBK1-2	4	7	3	0.9	0.73	-0.17	0.26	0.31	1	1	0	900	900	0
10/10/2024 10:44	67201	TEHI_T1	3	49	46	0.47	0.32	-0.15	0.06	0.57	1	1	0	900	900	0
10/10/2024 10:44	58402	MORO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/10/2024 10:44	58401	MORO_T1	0	1	1	0	0.2	0.2	-0.51	-0.5	0	0	0	0	0	0
10/10/2024 10:46	63501	HEID_TBK1-2	5	7	2	0.88	0.81	-0.07	0.53	0.62	2	2	0	1800	1800	0
10/10/2024 10:47	63501	HEID_TBK1-2	5	7	2	0.88	0.81	-0.07	0.79	0.93	3	3	0	2700	2700	0
10/10/2024 10:48	10805	CHHI_T2	3	1	-2	2.57	7.6	5.03	-1.46	-1.41	1	1	0	1200	1200	0
10/10/2024 10:49	58402	MORO_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/10/2024 10:49	58401	MORO_T1	0	1	1	0	0.2	0.2	-0.51	-0.5	0	0	0	0	0	0
10/10/2024 10:52	50103	HARR_T3	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
10/10/2024 10:52	50105	HARR_T3	6	6	0	5.47	5.52	0.05	0	0	0	0	0	0	0	0
10/10/2024 10:52	50107	HARR_T3	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
10/10/2024 10:55	44801	EDAN_T2	170	192	22	0.74	0.81	0.07	-1.68	-1.65	0	0	0	0	0	0
10/10/2024 10:55	44802	EDAN_T2	1	3	2	0.2	0.15	-0.05	-3.48	-3.52	0	0	0	0	0	0
10/10/2024 10:55	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 10:57	64801	MONE_T2	2	5	3	0.3	0.46	0.16	0.21	0.21	0	0	0	0	0	0
10/10/2024 10:57	44802	EDAN_T2	1	3	2	0.2	0.15	-0.05	-0.87	-0.88	0	0	0	0	0	0
10/10/2024 10:57	44801	EDAN_T2	170	192	22	0.74	0.81	0.07	0	0	0	0	0	0	0	0
10/10/2024 10:57	64101	REFR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/10/2024 10:57	64802	MONE_T2	12	17	5	0.24	0.32	0.08	0.26	0.32	0	0	0	0	0	0
10/10/2024 10:58	44802	EDAN_T2	1	3	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/10/2024 10:58	14403	SSLA_T1	2	3	1	0.3	0.5	0.2	0.6	0.62	0	0	0	0	0	0
10/10/2024 10:58	14401	SSLA_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
10/10/2024 10:58	44801	EDAN_T2	170	192	22	0.74	0.81	0.07	-1.68	-1.65	0	0	0	0	0	0
10/10/2024 10:58	14402	SSLA_T1	2	1	-1	0.4	1.1	0.7	0	0	0	0	0	0	0	0
10/10/2024 10:58	14404	SSLA_T1	5	7	2	0.54	0.43	-0.11	-0.04	-0.08	0	0	0	0	0	0
10/10/2024 10:58	64101	REFR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/10/2024 11:00	66504	SMAN_T2	1	2	1	1.2	0.85	-0.35	0	0	0	0	0	0	0	0
10/10/2024 11:00	66501	SMAN_T2	2	2	0	1.05	1.25	0.2	0	0	0	0	0	0	0	0
10/10/2024 11:00	66502	SMAN_T2	11	13	2	0.27	0.31	0.04	0	0	0	0	0	0	0	0
10/10/2024 11:00	66505	SMAN_T2	1	3	2	0.2	0.37	0.17	0	0	0	0	0	0	0	0
10/10/2024 11:01	14401	SSLA_T1	2	2	0	0.25	0.25	0	-0.57	-0.56	0	0	0	0	0	0
10/10/2024 11:01	14404	SSLA_T1	7	5	-2	0.37	0.52	0.15	0	0	0	0	0	0	0	0
10/10/2024 11:01	14402	SSLA_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
10/10/2024 11:01	14403	SSLA_T1	1	3	2	0.4	0.57	0.17	0	0	0	0	0	0	0	0
10/10/2024 11:03	46004	BERW_T2	0	1	1	0	0.3	0.3	-0.19	-0.21	0	0	0	0	0	0
10/10/2024 11:04	53501	EVIL_T2	3	3	0	0.4	0.6	0.2	-0.05	0.04	2	2	0	1200	1200	0
10/10/2024 11:05	45501	DERR_T2	0	1	1	0	0.4	0.4	1.64	1.54	4	4	0	3600	3600	0
10/10/2024 11:06	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 11:06	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 11:06	44502	HAMI_T2	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
10/10/2024 11:09	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 11:10	50502	MECH_T1	73	114	41	0.22	0.22	0	1472.89	1472.53	1	1	0	900	900	0
10/10/2024 11:10	50501	MECH_T1	4	4	0	0.93	0.98	0.05	0	0	0	0	0	0	0	0
10/10/2024 11:10	50503	MECH_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/10/2024 11:10	50506	MECH_T1	1	2	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
10/10/2024 11:10	50504	MECH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/10/2024 11:10	50505	MECH_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/10/2024 11:12	65602	QVIL_T2	2	16	14	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
10/10/2024 11:12	13704	SCHN_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
10/10/2024 11:12	65601	QVIL_T2	1	2	1	0.7	0.55	-0.15	-1.11	-1.17	1	1	0	900	900	0
10/10/2024 11:13	40603	PIGR_T1	3	5	2	0.67	0.66	-0.01	0	0	0	0	0	0	0	0
10/10/2024 11:13	65602	QVIL_T2	2	16	14	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
10/10/2024 11:13	40601	PIGR_T1	221	255	34	0.55	0.78	0.23	0	0	0	0	0	0	0	0
10/10/2024 11:13	65601	QVIL_T2	1	2	1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
10/10/2024 11:13	40602	PIGR_T1	3	4	1	0.3	0.43	0.13	0	0	0	0	0	0	0	0
10/10/2024 11:14	40601	PIGR_T1	221	255	34	0.55	0.78	0.23	0.04	0.07	0	0	0	0	0	0
10/10/2024 11:14	40603	PIGR_T1	3	5	2	0.67	0.66	-0.01	0.38	0.39	0	0	0	0	0	0
10/10/2024 11:14	40602	PIGR_T1	3	4	1	0.3	0.43	0.13	0	0	0	0	0	0	0	0
10/10/2024 11:16	67605	WARW_T1	36	38	2	0.59	0.53	-0.06	-1.12	-1.08	0	0	0	0	0	0
10/10/2024 11:16	40601	PIGR_T1	239	270	31	0.65	0.84	0.19	0	0	0	0	0	0	0	0
10/10/2024 11:16	16103	BING_T2	0	0	0	0	0	0	-0.48	-0.43	1	1	0	900	900	0
10/10/2024 11:16	40602	PIGR_T1	4	4	0	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
10/10/2024 11:16	67603	WARW_T1	1	2	1	0.6	0.65	0.05	0	0	0	0	0	0	0	0
10/10/2024 11:16	20401	ASHF_T2	0	8	8	0	0.35	0.35	0	0	0	0	0	0	0	0
10/10/2024 11:16	20403	ASHF_T2	14	30	16	0.34	0.31	-0.03	2.7	2.77	0	0	0	0	0	0
10/10/2024 11:16	16101	BING_T2	1	2	1	0.1	0.7	0.6	0	0	0	0	0	0	0	0
10/10/2024 11:16	40603	PIGR_T1	4	5	1	0.68	0.76	0.08	0	0	0	0	0	0	0	0
10/10/2024 11:17	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 11:17	66902	SHIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/10/2024 11:17	66903	SHIL_T2	1	4	3	0.7	0.5	-0.2	-3.24	-3.24	0	0	0	0	0	0
10/10/2024 11:18	67603	WARW_T1	1	2	1	0.6	0.65	0.05	0	0.01	0	0	0	0	0	0
10/10/2024 11:18	40601	PIGR_T1	239	270	31	0.65	0.84	0.19	0	0	0	0	0	0	0	0
10/10/2024 11:18	67605	WARW_T1	36	38	2	0.59	0.53	-0.06	0	0	0	0	0	0	0	0
10/10/2024 11:18	40603	PIGR_T1	4	5	1	0.68	0.76	0.08	0	0	0	0	0	0	0	0
10/10/2024 11:18	57201	ROSS_T1	44	58	14	0.22	0.23	0.01	0	0	0	0	0	0	0	0
10/10/2024 11:18	40602	PIGR_T1	4	4	0	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
10/10/2024 11:18	57205	ROSS_T1	6	6	0	0.83	0.9	0.07	0	0	0	0	0	0	0	0
10/10/2024 11:18	57203	ROSS_T1	0	3	3	0	0.13	0.13	0.31	0.34	0	0	0	0	0	0
10/10/2024 11:19	67603	WARW_T1	1	2	1	0.6	0.65	0.05	0	0	0	0	0	0	0	0
10/10/2024 11:19	67605	WARW_T1	36	38	2	0.59	0.53	-0.06	-1.12	-1.08	0	0	0	0	0	0
10/10/2024 11:21	57203	ROSS_T1	0	3	3	0	0.13	0.13	0.31	0.34	0	0	0	0	0	0
10/10/2024 11:21	57205	ROSS_T1	6	6	0	0.83	0.9	0.07	0	0	0	0	0	0	0	0
10/10/2024 11:21	57201	ROSS_T1	44	58	14	0.22	0.23	0.01	0	0	0	0	0	0	0	0
10/10/2024 11:23	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
10/10/2024 11:23	57401	SPAN_T1	2	2	0	1.2	1.25	0.05	0	0	0	0	0	0	0	0
10/10/2024 11:23	15702	TANN_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
10/10/2024 11:23	57403	SPAN_T1	121	163	42	0.34	0.38	0.04	0.02	-0.03	0	0	0	0	0	0
10/10/2024 11:23	42902	MIDD_T2	1	5	4	0.1	0.32	0.22	-0.1	-0.44	2	2	0	1200	1200	0
10/10/2024 11:24	42902	MIDD_T2	1	5	4	0.1	0.32	0.22	0	0	0	0	0	0	0	0
10/10/2024 11:24	64904	MILL_T1	6	1	-5	0.25	0.4	0.15	0.39	0.42	0	0	0	0	0	0
10/10/2024 11:24	60201	ATGL_T2	0	2	2	0	0.35	0.35	0.58	0.59	0	0	0	0	0	0
10/10/2024 11:24	64901	MILL_T1	46	30	-16	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
10/10/2024 11:25	42903	MIDD_T2	0	0	0	0	0	0	0.68	0.56	1	1	0	1200	1200	0
10/10/2024 11:25	42902	MIDD_T2	1	5	4	0.1	0.32	0.22	0	0	0	0	0	0	0	0
10/10/2024 11:26	64202	KINZ_T1	3	4	1	0.7	0.78	0.08	0	0	0	0	0	0	0	0
10/10/2024 11:26	64204	KINZ_T1	1	2	1	1.3	0.75	-0.55	0	0	0	0	0	0	0	0
10/10/2024 11:26	64201	KINZ_T1	0	0	0	0	0	0	0	0	3	3	0	1500	1500	0
10/10/2024 11:29	14801	TREI_T2	0	7	7	0	0.37	0.37	0	0	0	0	0	0	0	0
10/10/2024 11:29	14802	TREI_T2	0	5	5	0	0.28	0.28	0.68	0.76	0	0	0	0	0	0
10/10/2024 11:30	14401	SSLA_T1	1	2	1	0.3	0.65	0.35	0	0	0	0	0	0	0	0
10/10/2024 11:30	14403	SSLA_T1	3	3	0	0.57	0.93	0.36	0.6	0.57	0	0	0	0	0	0
10/10/2024 11:30	14404	SSLA_T1	4	7	3	0.63	0.61	-0.02	0	0	0	0	0	0	0	0
10/10/2024 11:30	14402	SSLA_T1	1	6	5	1	0.57	-0.43	0	0	0	0	0	0	0	0
10/10/2024 11:31	45501	DERR_T2	1	1	0	0.4	0.8	0.4	0.79	0.78	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/10/2024 11:31	67105	SPRI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/10/2024 11:31	67103	SPRI_T1	0	1	1	0	0.2	0.2	-0.05	-0.09	0	0	0	0	0	0
10/10/2024 11:32	14802	TREI_T2	2	5	3	0.4	0.34	-0.06	0.34	0.38	0	0	0	0	0	0
10/10/2024 11:32	14801	TREI_T2	1	8	7	0.1	0.38	0.28	0	0	0	0	0	0	0	0
10/10/2024 11:35	62601	ENGL_T1	0	0	0	0	0	0	0.37	0.45	1	1	0	600	600	0
10/10/2024 11:35	62605	ENGL_T1	10	11	1	0.32	0.31	-0.01	-0.83	-0.87	0	0	0	0	0	0
10/10/2024 11:35	62607	ENGL_T1	7	8	1	0.29	0.33	0.04	0	0	0	0	0	0	0	0
10/10/2024 11:35	62602	ENGL_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/10/2024 11:36	62605	ENGL_T1	10	11	1	0.32	0.31	-0.01	-0.87	-0.86	0	0	0	0	0	0
10/10/2024 11:36	62607	ENGL_T1	7	8	1	0.29	0.33	0.04	-0.84	-0.81	0	0	0	0	0	0
10/10/2024 11:36	67401	WAKE_T2	2	4	2	0.8	0.63	-0.17	-1.09	-1.11	0	0	0	0	0	0
10/10/2024 11:36	62602	ENGL_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/10/2024 11:37	61703	ELIZ_T1	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/10/2024 11:37	62606	ENGL_T1	0	0	0	0	0	0	-0.96	-0.93	1	1	0	900	900	0
10/10/2024 11:37	62607	ENGL_T1	7	8	1	0.29	0.33	0.04	-0.84	-0.81	0	0	0	0	0	0
10/10/2024 11:37	61701	ELIZ_T1	2	2	0	3.7	3.8	0.1	0.3	0.58	0	0	0	0	0	0
10/10/2024 11:37	62605	ENGL_T1	10	11	1	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
10/10/2024 11:37	62602	ENGL_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/10/2024 11:37	45501	DERR_T2	1	1	0	0.4	0.8	0.4	1.57	1.74	4	4	0	3600	3600	0
10/10/2024 11:38	57401	SPAN_T1	2	2	0	1.25	1.15	-0.1	0.04	0.11	0	0	0	0	0	0
10/10/2024 11:38	24702	FLND_T2	8	5	-3	0.18	0.24	0.06	0.39	0.24	1	1	0	1200	1200	0
10/10/2024 11:38	62602	ENGL_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/10/2024 11:38	62601	ENGL_T1	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
10/10/2024 11:38	62607	ENGL_T1	7	8	1	0.29	0.33	0.04	0	0	0	0	0	0	0	0
10/10/2024 11:38	62605	ENGL_T1	10	11	1	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
10/10/2024 11:38	57403	SPAN_T1	157	122	-35	0.38	0.31	-0.07	0	0	0	0	0	0	0	0
10/10/2024 11:39	13503	MCMI_T2	0	1	1	0	0.6	0.6	-0.01	-0.01	0	0	0	0	0	0
10/10/2024 11:40	62602	ENGL_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/10/2024 11:40	62607	ENGL_T1	7	8	1	0.29	0.33	0.04	0	0	0	0	0	0	0	0
10/10/2024 11:40	62605	ENGL_T1	10	11	1	0.32	0.31	-0.01	-0.87	-0.86	0	0	0	0	0	0
10/10/2024 11:41	62602	ENGL_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/10/2024 11:41	62607	ENGL_T1	7	8	1	0.29	0.33	0.04	-0.84	-0.81	0	0	0	0	0	0
10/10/2024 11:41	17002	RIRO_T2	3	4	1	0.5	0.55	0.05	0.6	0.62	0	0	0	0	0	0
10/10/2024 11:41	62605	ENGL_T1	10	11	1	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
10/10/2024 11:41	13503	MCMI_T2	0	1	1	0	0.6	0.6	-0.01	-0.01	0	0	0	0	0	0
10/10/2024 11:42	42902	MIDD_T2	3	4	1	0.23	0.38	0.15	-0.22	-0.01	1	1	0	600	600	0
10/10/2024 11:42	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 11:43	15204	SFAR_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
10/10/2024 11:43	13905	SEID_T1	0	1	1	0	0.1	0.1	0.25	0.28	0	0	0	0	0	0
10/10/2024 11:43	15203	SFAR_T2	3	6	3	0.3	0.62	0.32	-1.37	-1.41	0	0	0	0	0	0
10/10/2024 11:43	13902	SEID_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/10/2024 11:44	15203	SFAR_T2	3	6	3	0.3	0.62	0.32	-1.37	-1.41	0	0	0	0	0	0
10/10/2024 11:44	15204	SFAR_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
10/10/2024 11:45	63501	HEID_TBK1-2	3	8	5	1.07	0.71	-0.36	0.16	0.22	1	1	0	900	900	0
10/10/2024 11:45	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 11:48	43504	WWIL_T1	16	15	-1	0.29	0.34	0.05	0.56	0.56	0	0	0	0	0	0
10/10/2024 11:48	43506	WWIL_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
10/10/2024 11:48	43503	WWIL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/10/2024 11:48	43505	WWIL_T1	1	1	0	3	3	0	0	0	0	0	0	0	0	0
10/10/2024 11:49	67605	WARW_T1	38	67	29	0.5	0.64	0.14	-1.09	-1.08	0	0	0	0	0	0
10/10/2024 11:49	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 11:49	67603	WARW_T1	2	6	4	0.65	0.57	-0.08	0	0	0	0	0	0	0	0
10/10/2024 11:53	24702	FLND_T2	2	7	5	0.35	0.46	0.11	0.24	-0.01	1	1	0	1200	1200	0
10/10/2024 11:53	24701	FLND_T2	1	0	-1	7.7	0	-7.7	0	0	0	0	0	0	0	0
10/10/2024 11:55	42903	MIDD_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
10/10/2024 11:55	42902	MIDD_T2	4	20	16	0.35	0.5	0.15	-0.01	-0.43	1	1	0	600	600	0
10/10/2024 11:56	65503	MOJO_T2	1	6	5	0.2	0.42	0.22	0	0	0	0	0	0	0	0
10/10/2024 11:56	55001	NEWP_T1	1	2	1	0.4	0.25	-0.15	-0.23	-0.2	0	0	0	0	0	0
10/10/2024 11:56	55002	NEWP_T1	12	12	0	0.91	0.93	0.02	0	0	0	0	0	0	0	0
10/10/2024 11:56	65502	MOJO_T2	0	0	0	0	0	0	0.1	0.15	0	0	0	0	0	0
10/10/2024 11:58	65502	MOJO_T2	0	0	0	0	0	0	0.1	0.15	0	0	0	0	0	0
10/10/2024 11:58	65503	MOJO_T2	1	6	5	0.2	0.42	0.22	0	0	0	0	0	0	0	0
10/10/2024 12:01	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 12:01	41902	REED_T1	0	1	1	0	0.2	0.2	0.92	0.95	0	0	0	0	0	0
10/10/2024 12:01	13701	SCHN_T2	2	2	0	0.5	0.45	-0.05	-0.13	-0.1	1	1	0	600	600	0
10/10/2024 12:01	13704	SCHN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/10/2024 12:01	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 12:03	24802	AUBU_T1	1	3	2	0.1	0.3	0.2	0.11	0.03	1	1	0	600	600	0
10/10/2024 12:04	16103	BING_T2	1	1	0	0.1	0.2	0.1	-0.47	-0.43	1	1	0	900	900	0
10/10/2024 12:04	16102	BING_T2	0	5	5	0	0.36	0.36	0	0	0	0	0	0	0	0
10/10/2024 12:04	16101	BING_T2	2	2	0	0.35	0.8	0.45	0	0	0	0	0	0	0	0
10/10/2024 12:05	60101	COCA_T1	3	3	0	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
10/10/2024 12:05	60102	COCA_T1	0	1	1	0	0.1	0.1	0.61	0.37	2	2	0	1200	1200	0
10/10/2024 12:07	13502	MCMI_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
10/10/2024 12:07	13501	MCMI_T1	0	0	0	0	0	0	0.05	0.09	0	0	0	0	0	0
10/10/2024 12:09	17401	FOHI_T1	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
10/10/2024 12:09	65503	MOJO_T2	6	3	-3	0.42	0.5	0.08	-0.46	-0.01	1	0	-1	900	0	-900
10/10/2024 12:11	65501	MOJO_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/10/2024 12:12	65503	MOJO_T2	6	3	-3	0.42	0.5	0.08	-0.46	-0.01	1	0	-1	900	0	-900
10/10/2024 12:12	65501	MOJO_T1	1	1	0	0.1	0.1	0	-1	-1.06	1	1	0	900	900	0
10/10/2024 12:12	42601	TUSC_T1	0	0	0	0	0	0	0	0.23	3	2	-1	2400	1800	-600
10/10/2024 12:14	40603	PIGR_T1	5	5	0	0.74	0.82	0.08	0	0	0	0	0	0	0	0
10/10/2024 12:14	40601	PIGR_T1	252	293	41	0.8	0.86	0.06	0	0	0	0	0	0	0	0
10/10/2024 12:14	40602	PIGR_T1	3	4	1	0.7	0.63	-0.07	0.75	0.78	0	0	0	0	0	0
10/10/2024 12:16	40601	PIGR_T1	278	287	9	0.88	0.83	-0.05	0	0	0	0	0	0	0	0
10/10/2024 12:16	15201	SFAR_T1	0	0	0	0	0	0	-0.64	-0.6	2	2	0	1800	1800	0
10/10/2024 12:16	40603	PIGR_T1	4	5	1	0.98	0.82	-0.16	0	0	0	0	0	0	0	0
10/10/2024 12:16	40602	PIGR_T1	3	4	1	0.6	0.63	0.03	1.5	1.57	0	0	0	0	0	0
10/10/2024 12:18	66501	SMAN_T2	2	2	0	0.5	1.15	0.65	0	0	0	0	0	0	0	0
10/10/2024 12:18	66504	SMAN_T2	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
10/10/2024 12:18	66505	SMAN_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
10/10/2024 12:18	66502	SMAN_T2	6	10	4	0.35	0.45	0.1	0	0	0	0	0	0	0	0
10/10/2024 12:19	15703	TANN_T2	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
10/10/2024 12:19	15702	TANN_T2	0	3	3	0	0.2	0.2	-0.44	-0.41	0	0	0	0	0	0
10/10/2024 12:21	23403	HONE_T1	0	1	1	0	0.2	0.2	-1.13	-1.14	0	0	0	0	0	0
10/10/2024 12:21	64202	KINZ_T1	3	3	0	0.63	0.83	0.2	0	0	0	0	0	0	0	0
10/10/2024 12:21	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 12:21	64204	KINZ_T1	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
10/10/2024 12:22	45702	LIND_T2	2	10	8	1	0.42	-0.58	-0.47	-0.47	0	0	0	0	0	0
10/10/2024 12:23	21204	ECAR_T2	1	1	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
10/10/2024 12:23	21206	ECAR_T2	1	1	0	6.7	6.9	0.2	0	0	0	0	0	0	0	0
10/10/2024 12:24	15703	TANN_T2	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
10/10/2024 12:24	15702	TANN_T2	0	3	3	0	0.2	0.2	-0.41	-0.43	0	0	0	0	0	0
10/10/2024 12:27	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 12:29	54206	PENN_T2	2	1	-1	0.2	0.2	0	0.05	0	0	0	0	0	0	0
10/10/2024 12:29	54202	PENN_T2	5	5	0	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
10/10/2024 12:29	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 12:30	54201	PENN_T1	4	4	0	1.13	1	-0.13	0	0	0	0	0	0	0	0
10/10/2024 12:30	54203	PENN_T1	21	20	-1	0.74	0.6	-0.14	1	0.99	0	0	0	0	0	0
10/10/2024 12:31	54206	PENN_T2	1	0	-1	0.2	0	-0.2	0.09	0	0	0	0	0	0	0
10/10/2024 12:31	54202	PENN_T2	5	2	-3	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/10/2024 12:31	60101	COCA_T1	3	1	-2	0.33	0.5	0.17	0.24	0.26	0	0	0	0	0	0
10/10/2024 12:35	67401	WAKE_T2	1	0	-1	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
10/10/2024 12:35	67402	WAKE_T2	0	0	0	0	0	0	0.32	0.31	1	1	0	600	600	0
10/10/2024 12:36	67402	WAKE_T2	0	0	0	0	0	0	0.31	0.32	1	1	0	600	600	0
10/10/2024 12:36	67401	WAKE_T2	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
10/10/2024 12:37	28704	HAML_T2	0	45	45	0	0.14	0.14	-0.33	-0.88	0	0	0	0	0	0
10/10/2024 12:37	62105	ELAN_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/10/2024 12:37	62102	ELAN_T1	1	1	0	0.9	0.9	0	0.54	0.54	0	0	0	0	0	0
10/10/2024 12:38	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 12:39	67402	WAKE_T2	0	0	0	0	0	0	0.31	0.32	1	1	0	600	600	0
10/10/2024 12:39	67401	WAKE_T2	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
10/10/2024 12:41	64303	LINC_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/10/2024 12:41	64305	LINC_T1	1	1	0	0.9	0.7	-0.2	-0.51	-0.41	0	0	0	0	0	0
10/10/2024 12:43	10805	CHHI_T2	1	1	0	8.1	8.1	0	-0.78	-1.02	1	1	0	1200	1200	0
10/10/2024 12:44	67201	TEHI_T1	2	0	-2	0.55	0	-0.55	0.77	1.12	1	1	0	900	900	0
10/10/2024 12:49	46504	LOHA_T1	15	19	4	0.17	0.25	0.08	0	0	0	0	0	0	0	0
10/10/2024 12:49	46506	LOHA_T1	3	3	0	5.4	5.8	0.4	0	0	0	0	0	0	0	0
10/10/2024 12:49	46503	LOHA_T1	1	1	0	0.7	0.3	-0.4	-0.62	-0.61	0	0	0	0	0	0
10/10/2024 12:50	45501	DERR_T2	1	1	0	0.3	0.1	-0.2	0.75	0.88	2	2	0	1800	1800	0
10/10/2024 12:53	46801	HEPB_T2	2	2	0	0.8	0.6	-0.2	0.5	0.52	0	0	0	0	0	0
10/10/2024 12:53	46803	HEPB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/10/2024 12:54	46503	LOHA_T1	1	1	0	0.7	0.3	-0.4	-0.61	-0.62	0	0	0	0	0	0
10/10/2024 12:54	41301	FISH_T1	5	5	0	1.42	1.44	0.02	0	0	0	0	0	0	0	0
10/10/2024 12:54	46504	LOHA_T1	15	19	4	0.17	0.25	0.08	0	0	0	0	0	0	0	0
10/10/2024 12:54	46506	LOHA_T1	3	3	0	5.4	5.8	0.4	0	0	0	0	0	0	0	0
10/10/2024 12:54	41305	FISH_T1	1	1	0	1.2	1.2	0	0.12	0.11	0	0	0	0	0	0
10/10/2024 12:59	42902	MIDD_T2	1	1	0	0.5	0.2	-0.3	-0.35	-0.22	1	1	0	600	600	0
10/10/2024 13:01	66504	SMAN_T2	2	1	-1	0.7	1.4	0.7	-0.4	-0.31	0	0	0	0	0	0
10/10/2024 13:01	66505	SMAN_T2	1	3	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/10/2024 13:01	66502	SMAN_T2	7	10	3	0.33	0.46	0.13	0	0	0	0	0	0	0	0
10/10/2024 13:01	66501	SMAN_T2	2	2	0	0.75	1.2	0.45	0	0	0	0	0	0	0	0
10/10/2024 13:02	67203	TEHI_T1	0	0	0	0	0	0	3.13	2.73	2	3	1	1500	2100	600
10/10/2024 13:02	67201	TEHI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/10/2024 13:04	15703	TANN_T2	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
10/10/2024 13:04	15702	TANN_T2	1	1	0	0.3	0.1	-0.2	-0.43	-0.4	0	0	0	0	0	0
10/10/2024 13:05	66502	SMAN_T2	7	10	3	0.33	0.46	0.13	0	0	0	0	0	0	0	0
10/10/2024 13:05	66501	SMAN_T2	2	2	0	0.75	1.2	0.45	0	0	0	0	0	0	0	0
10/10/2024 13:05	66505	SMAN_T2	1	3	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/10/2024 13:05	66504	SMAN_T2	2	1	-1	0.7	1.4	0.7	0	0	0	0	0	0	0	0
10/10/2024 13:05	60101	COCA_T1	1	1	0	0.4	0.3	-0.1	0.29	0.21	0	0	0	0	0	0
10/10/2024 13:08	63602	LETO_T1	4	71	67	0.43	0.19	-0.24	-0.34	-0.27	0	0	0	0	0	0
10/10/2024 13:08	63601	LETO_T1	1	6	5	0.2	0.32	0.12	0	0	0	0	0	0	0	0
10/10/2024 13:11	63601	LETO_T1	1	6	5	0.2	0.32	0.12	1.81	3.32	2	2	0	1800	1800	0
10/10/2024 13:11	63602	LETO_T1	4	71	67	0.43	0.19	-0.24	-0.34	-0.27	0	0	0	0	0	0
10/10/2024 13:14	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:18	14801	TREI_T2	7	9	2	0.51	0.5	-0.01	0	0	0	0	0	0	0	0
10/10/2024 13:18	14802	TREI_T2	3	4	1	0.57	0.63	0.06	0.32	0.34	0	0	0	0	0	0
10/10/2024 13:19	14801	TREI_T2	7	9	2	0.51	0.5	-0.01	0	0	0	0	0	0	0	0
10/10/2024 13:19	14802	TREI_T2	3	4	1	0.57	0.63	0.06	0.32	0.34	0	0	0	0	0	0
10/10/2024 13:23	13503	MCMI_T2	1	1	0	0.9	1	0.1	-0.01	-0.01	0	0	0	0	0	0
10/10/2024 13:26	67402	WAKE_T2	0	0	0	0	0	0	0.32	0.31	1	1	0	600	600	0
10/10/2024 13:26	67401	WAKE_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/10/2024 13:36	46503	LOHA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/10/2024 13:36	46506	LOHA_T1	3	4	1	5.83	4.48	-1.35	-0.09	-0.1	0	0	0	0	0	0
10/10/2024 13:36	46504	LOHA_T1	50	58	8	0.56	0.79	0.23	0	0	0	0	0	0	0	0
10/10/2024 13:42	46102	MACJ_T1	0	19	19	0	0.15	0.15	0.68	0.66	0	0	0	0	0	0
10/10/2024 13:43	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:45	66902	SHIL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
10/10/2024 13:45	42701	AUGU_T1	1	0	-1	0.2	0	-0.2	0	0	1	1	0	600	600	0
10/10/2024 13:45	42501	ALTA_T2	1	2	1	0.5	0.45	-0.05	-0.08	-0.06	1	1	0	600	600	0
10/10/2024 13:45	16301	ALPA_T1	1	1	0	0.4	0.2	-0.2	-0.04	0.02	0	0	0	0	0	0
10/10/2024 13:45	66903	SHIL_T2	7	3	-4	0.49	0.57	0.08	-3.28	-3.22	0	0	0	0	0	0
10/10/2024 13:45	66901	SHIL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/10/2024 13:45	64101	REFR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/10/2024 13:45	55105	WERT_T1	0	0	0	0	0	0	-0.63	-0.61	1	1	0	900	900	0
10/10/2024 13:46	10206	ALLE_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
10/10/2024 13:46	10705	CATA_T2	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
10/10/2024 13:46	20103	AVOC_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
10/10/2024 13:46	50624	CCTY_T2	2	2	0	6.05	6.05	0	0	0	0	0	0	0	0	0
10/10/2024 13:46	16301	ALPA_T1	1	1	0	0.4	0.2	-0.2	-0.08	0.04	0	0	0	0	0	0
10/10/2024 13:46	10701	CATA_T2	2	4	2	0.25	0.38	0.13	0	0	0	0	0	0	0	0
10/10/2024 13:46	60701	BREC_T1	3	3	0	0.13	0.2	0.07	-0.13	-0.11	2	2	0	1200	1200	0
10/10/2024 13:46	10702	CATA_T2	1	1	0	0.5	0.8	0.3	-0.57	-0.79	0	0	0	0	0	0
10/10/2024 13:46	50625	CCTY_T2	6	5	-1	2.3	2.84	0.54	0	0	0	0	0	0	0	0
10/10/2024 13:46	16402	MOPO_T1	1	0	-1	0.1	0	-0.1	0.81	0.8	0	0	0	0	0	0
10/10/2024 13:46	50623	CCTY_T2	5	5	0	6.14	6.1	-0.04	0	0	0	0	0	0	0	0
10/10/2024 13:46	42701	AUGU_T1	1	0	-1	0.2	0	-0.2	0	0	1	1	0	600	600	0
10/10/2024 13:46	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:46	67303	WYOM_T2	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
10/10/2024 13:46	10102	ALLE_T2	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
10/10/2024 13:47	10705	CATA_T2	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
10/10/2024 13:47	10206	ALLE_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
10/10/2024 13:47	61103	BERK_T5	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
10/10/2024 13:47	66903	SHIL_T2	7	3	-4	0.49	0.57	0.08	-4.92	-4.83	0	0	0	0	0	0
10/10/2024 13:47	42501	ALTA_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
10/10/2024 13:47	16301	ALPA_T1	1	1	0	0.4	0.2	-0.2	-0.04	0.02	0	0	0	0	0	0
10/10/2024 13:47	66901	SHIL_T2	1	1	0	0.3	0.2	-0.1	-0.2	-0.18	0	0	0	0	0	0
10/10/2024 13:47	67603	WARW_T1	2	2	0	0.65	0.7	0.05	0.12	0.02	0	0	0	0	0	0
10/10/2024 13:47	10102	ALLE_T2	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
10/10/2024 13:47	66902	SHIL_T2	1	1	0	0.1	0.4	0.3	-1.02	-1.01	0	0	0	0	0	0
10/10/2024 13:47	42701	AUGU_T1	1	0	-1	0.2	0	-0.2	0	0	1	1	0	600	600	0
10/10/2024 13:47	67605	WARW_T1	41	43	2	0.6	0.58	-0.02	-1.08	-1.03	0	0	0	0	0	0
10/10/2024 13:47	40201	BEGA_T2	1	2	1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
10/10/2024 13:47	16302	ALPA_T2	0	0	0	0	0	0	0.74	0.71	0	0	0	0	0	0
10/10/2024 13:47	10701	CATA_T2	2	4	2	0.25	0.38	0.13	-0.52	-0.53	1	1	0	1200	1200	0
10/10/2024 13:47	41602	CLEV_T1	2	3	1	0.55	0.67	0.12	0	0	0	0	0	0	0	0
10/10/2024 13:47	61101	BERK_T5	2	2	0	0.4	0.45	0.05	-0.65	-0.64	0	0	0	0	0	0
10/10/2024 13:47	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:47	10702	CATA_T2	1	1	0	0.5	0.8	0.3	-1.15	-1.58	0	0	0	0	0	0
10/10/2024 13:47	42503	ALTA_T2	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
10/10/2024 13:48	51906	COPA_T1	1	0	-1	0.2	0	-0.2	-1.06	-0.99	2	2	0	1500	1500	0
10/10/2024 13:48	10102	ALLE_T2	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
10/10/2024 13:48	41602	CLEV_T1	2	3	1	0.55	0.67	0.12	0	0	0	0	0	0	0	0
10/10/2024 13:48	10702	CATA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/10/2024 13:48	16004	DORN_T1	2	2	0	0.6	0.55	-0.05	-2.12	-2.29	2	2	0	2400	2400	0
10/10/2024 13:48	66902	SHIL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
10/10/2024 13:48	66505	SMAN_T2	3	4	1	0.33	0.5	0.17	0.22	0.18	1	1	0	900	900	0
10/10/2024 13:48	66503	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/10/2024 13:48	10206	ALLE_T2	1	0	-1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
10/10/2024 13:48	11202	ELHE_T2	0	0	0	0	0	0	0.43	0.41	1	1	0	1200	1200	0
10/10/2024 13:48	46203	DANV_T2	1	2	1	0.2	1.1	0.9	0	0	0	0	0	0	0	0
10/10/2024 13:48	51901	COPA_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/10/2024 13:48	46206	DANV_T2	0	0	0	0	0	0	3.78	3.99	6	6	0	6300	6300	0
10/10/2024 13:48	42501	ALTA_T2	1	2	1	0.5	0.45	-0.05	-0.08	-0.06	1	1	0	600	600	0
10/10/2024 13:48	51202	MTON_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/10/2024 13:48	16005	DORN_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/10/2024 13:48	51904	COPA_T1	7	7	0	1.23	1.2	-0.03	0	0	0	0	0	0	0	0
10/10/2024 13:48	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:48	51204	MTON_T2	0	0	0	0	0	0	-0.43	-0.43	1	1	0	600	600	0
10/10/2024 13:48	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:48	66502	SMAN_T2	10	14	4	0.39	0.41	0.02	0	0	0	0	0	0	0	0
10/10/2024 13:48	51902	COPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:48	27502	WEIS_T2	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
10/10/2024 13:48	60701	BREC_T1	3	3	0	0.13	0.2	0.07	-0.13	-0.11	2	2	0	1200	1200	0
10/10/2024 13:48	66901	SHIL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/10/2024 13:48	60101	COCA_T1	1	1	0	0.3	0.3	0	0.26	0.2	0	0	0	0	0	0
10/10/2024 13:48	62105	ELAN_T1	1	0	-1	0.2	0	-0.2	0.37	0.37	0	0	0	0	0	0
10/10/2024 13:48	66504	SMAN_T2	2	7	5	0.7	0.39	-0.31	0	0	0	0	0	0	0	0
10/10/2024 13:48	27503	WEIS_T2	6	5	-1	0.37	0.28	-0.09	0	0	0	0	0	0	0	0
10/10/2024 13:48	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:48	62102	ELAN_T1	1	0	-1	1	0.9	-0.1	0	0	0	0	0	0	0	0
10/10/2024 13:48	66903	SHIL_T2	7	3	-4	0.49	0.57	0.08	-4.92	-4.83	0	0	0	0	0	0
10/10/2024 13:48	16302	ALPA_T2	0	0	0	0	0	0	1.49	1.41	0	0	0	0	0	0
10/10/2024 13:48	66501	SMAN_T2	2	2	0	1.25	1.25	0	0	0	0	0	0	0	0	0
10/10/2024 13:48	61103	BERK_T5	1	2	1	0.1	0.25	0.15	0.03	-0.01	0	0	0	0	0	0
10/10/2024 13:48	10701	CATA_T2	2	4	2	0.25	0.38	0.13	0	0	0	0	0	0	0	0
10/10/2024 13:48	16301	ALPA_T1	1	1	0	0.4	0.2	-0.2	-0.04	0.02	0	0	0	0	0	0
10/10/2024 13:48	61101	BERK_T5	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
10/10/2024 13:48	67106	SPRI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/10/2024 13:48	10705	CATA_T2	0	1	1	0	1.9	1.9	0.01	0.02	0	0	0	0	0	0
10/10/2024 13:48	10705	CATA_T2	0	1	1	0	1.9	1.9	0.01	0.02	0	0	0	0	0	0
10/10/2024 13:48	10705	CATA_T2	0	1	1	0	1.9	1.9	0.01	0.02	0	0	0	0	0	0
10/10/2024 13:48	10705	CATA_T2	0	1	1	0	1.9	1.9	0.01	0.02	0	0	0	0	0	0
10/10/2024 13:49	23901	EFMO_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
10/10/2024 13:49	67603	WARW_T1	2	2	0	0.65	0.7	0.05	0.06	0.01	0	0	0	0	0	0
10/10/2024 13:49	42503	ALTA_T2	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
10/10/2024 13:49	61101	BERK_T5	2	2	0	0.4	0.45	0.05	-0.65	-0.64	0	0	0	0	0	0
10/10/2024 13:49	10102	ALLE_T2	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
10/10/2024 13:49	10206	ALLE_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
10/10/2024 13:49	46206	DANV_T2	0	0	0	0	0	0	1.26	1.33	2	2	0	2100	2100	0
10/10/2024 13:49	51901	COPA_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/10/2024 13:49	66903	SHIL_T2	7	3	-4	0.49	0.57	0.08	-3.28	-3.22	0	0	0	0	0	0
10/10/2024 13:49	67106	SPRI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/10/2024 13:49	66901	SHIL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/10/2024 13:49	18001	ZION_T1	4	4	0	4.85	4.9	0.05	0	0	0	0	0	0	0	0
10/10/2024 13:49	10701	CATA_T2	2	4	2	0.25	0.38	0.13	0	0	0	0	0	0	0	0
10/10/2024 13:49	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:49	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:49	41602	CLEV_T1	2	3	1	0.55	0.67	0.12	0	0	0	0	0	0	0	0
10/10/2024 13:49	16402	MOPO_T1	1	0	-1	0.1	0	-0.1	0.81	0.8	0	0	0	0	0	0
10/10/2024 13:49	51906	COPA_T1	1	0	-1	0.2	0	-0.2	-1.06	-0.99	2	2	0	1500	1500	0
10/10/2024 13:49	51904	COPA_T1	7	7	0	1.23	1.2	-0.03	0	0	0	0	0	0	0	0
10/10/2024 13:49	10702	CATA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/10/2024 13:49	10703	CATA_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
10/10/2024 13:49	10707	CATA_T2	0	0	0	0	0	0	0.59	0.64	0	0	0	0	0	0
10/10/2024 13:49	16302	ALPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:49	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:49	10705	CATA_T2	0	1	1	0	1.9	1.9	0.01	0.02	0	0	0	0	0	0
10/10/2024 13:49	42701	AUGU_T1	1	0	-1	0.2	0	-0.2	0	0	1	1	0	600	600	0
10/10/2024 13:49	61103	BERK_T5	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
10/10/2024 13:49	46203	DANV_T2	1	2	1	0.2	1.1	0.9	0	0	0	0	0	0	0	0
10/10/2024 13:49	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:49	67605	WARW_T1	41	43	2	0.6	0.58	-0.02	0	0	0	0	0	0	0	0
10/10/2024 13:49	66902	SHIL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
10/10/2024 13:49	60701	BREC_T1	3	3	0	0.13	0.2	0.07	-0.39	-0.33	6	6	0	3600	3600	0
10/10/2024 13:49	42501	ALTA_T2	1	2	1	0.5	0.45	-0.05	-0.08	-0.06	1	1	0	600	600	0
10/10/2024 13:50	51906	COPA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/10/2024 13:50	10206	ALLE_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
10/10/2024 13:50	67603	WARW_T1	2	2	0	0.65	0.7	0.05	0.12	0.02	0	0	0	0	0	0
10/10/2024 13:50	52202	DEVO_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
10/10/2024 13:50	45902	AUBU_T1	2	3	1	0.3	0.47	0.17	0	0	0	0	0	0	0	0
10/10/2024 13:50	60701	BREC_T1	3	3	0	0.13	0.2	0.07	-0.39	-0.33	6	6	0	3600	3600	0
10/10/2024 13:50	16102	BING_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/10/2024 13:50	51904	COPA_T1	7	7	0	1.23	1.2	-0.03	0	0	0	0	0	0	0	0
10/10/2024 13:50	41602	CLEV_T1	2	3	1	0.55	0.67	0.12	0	0	0	0	0	0	0	0
10/10/2024 13:50	46506	LOHA_T1	3	4	1	5.67	4.48	-1.19	-0.09	-0.1	0	0	0	0	0	0
10/10/2024 13:50	52204	DEVO_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
10/10/2024 13:50	46504	LOHA_T1	56	58	2	0.76	0.78	0.02	0	0	0	0	0	0	0	0
10/10/2024 13:50	67605	WARW_T1	41	43	2	0.6	0.58	-0.02	-1.08	-1.03	0	0	0	0	0	0
10/10/2024 13:50	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:50	60101	COCA_T1	1	1	0	0.3	0.3	0	0.26	0.2	0	0	0	0	0	0
10/10/2024 13:50	46203	DANV_T2	1	2	1	0.2	1.1	0.9	1.02	0.9	0	0	0	0	0	0
10/10/2024 13:50	46503	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/10/2024 13:50	10702	CATA_T2	1	1	0	0.5	0.8	0.3	-1.15	-1.58	0	0	0	0	0	0
10/10/2024 13:50	51901	COPA_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/10/2024 13:50	10102	ALLE_T2	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
10/10/2024 13:50	10703	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:50	45901	AUBU_T1	0	0	0	0	0	0	1.79	1.73	0	0	0	0	0	0
10/10/2024 13:50	10701	CATA_T2	2	4	2	0.25	0.38	0.13	-0.52	-0.53	1	1	0	1200	1200	0
10/10/2024 13:50	40201	BEGA_T2	1	2	1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
10/10/2024 13:50	67303	WYOM_T2	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
10/10/2024 13:50	16101	BING_T2	1	1	0	1.1	0.7	-0.4	0.32	0.32	0	0	0	0	0	0
10/10/2024 13:50	10705	CATA_T2	0	1	1	0	1.9	1.9	0.01	0.02	0	0	0	0	0	0
10/10/2024 13:50	52501	PROG_T1	0	1	1	0	0.1	0.1	-0.19	-0.18	1	1	0	300	300	0
10/10/2024 13:50	16302	ALPA_T2	0	0	0	0	0	0	0.74	0.71	0	0	0	0	0	0
10/10/2024 13:51	10701	CATA_T2	2	4	2	0.25	0.38	0.13	0	0	0	0	0	0	0	0
10/10/2024 13:51	46203	DANV_T2	1	2	1	0.2	1.1	0.9	0	0	0	0	0	0	0	0
10/10/2024 13:51	52204	DEVO_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
10/10/2024 13:51	61101	BERK_T5	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
10/10/2024 13:51	48902	FOSP_T2	2	2	0	0.25	0.35	0.1	-0.47	-0.32	1	1	0	1200	1200	0
10/10/2024 13:51	60101	COCA_T1	1	1	0	0.3	0.3	0	0.6	0.75	0	0	0	0	0	0
10/10/2024 13:51	45802	HEGI_T2	44	46	2	1.01	1.39	0.38	1.61	1.02	0	0	0	0	0	0
10/10/2024 13:51	16004	DORN_T1	2	2	0	0.6	0.55	-0.05	-3.19	-3.44	3	3	0	3600	3600	0
10/10/2024 13:51	46504	LOHA_T1	56	58	2	0.76	0.78	0.02	0	0	0	0	0	0	0	0
10/10/2024 13:51	48302	ORWI_T2	2	2	0	1.25	1.6	0.35	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/10/2024 13:51	45901	AUBU_T1	0	0	0	0	0	0	3.58	3.46	0	0	0	0	0	0
10/10/2024 13:51	10702	CATA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/10/2024 13:51	67603	WARW_T1	2	2	0	0.65	0.7	0.05	0.05	0	0	0	0	0	0	0
10/10/2024 13:51	48303	ORWI_T2	1	2	1	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
10/10/2024 13:51	46503	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/10/2024 13:51	48901	FOSP_T2	1	1	0	0.4	0.4	0	-0.1	-0.14	1	1	0	600	600	0
10/10/2024 13:51	67605	WARW_T1	41	43	2	0.6	0.58	-0.02	0	0	0	0	0	0	0	0
10/10/2024 13:51	53601	DALM_T2	1	1	0	1.2	0.8	-0.4	-0.42	-0.34	1	1	0	900	900	0
10/10/2024 13:51	46506	LOHA_T1	3	4	1	5.67	4.48	-1.19	-0.1	-0.12	0	0	0	0	0	0
10/10/2024 13:51	10705	CATA_T2	0	1	1	0	1.9	1.9	0.04	0.06	0	0	0	0	0	0
10/10/2024 13:51	52202	DEVO_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
10/10/2024 13:51	61103	BERK_T5	1	2	1	0.1	0.25	0.15	-0.01	-0.01	0	0	0	0	0	0
10/10/2024 13:51	41304	FISH_T2	1	1	0	0	0	0	0.23	0.34	0	0	0	0	0	0
10/10/2024 13:51	45902	AUBU_T1	2	3	1	0.3	0.47	0.17	-0.03	-0.14	1	1	0	600	600	0
10/10/2024 13:51	10704	CATA_T2	0	0	0	0	0	0	1.18	1.22	1	1	0	1200	1200	0
10/10/2024 13:51	46206	DANV_T2	0	0	0	0	0	0	3.99	3.78	6	6	0	6300	6300	0
10/10/2024 13:51	16005	DORN_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/10/2024 13:52	52204	DEVO_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
10/10/2024 13:52	51904	COPA_T1	7	7	0	1.23	1.2	-0.03	0	0	0	0	0	0	0	0
10/10/2024 13:52	62105	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/10/2024 13:52	52501	PROG_T1	0	1	1	0	0.1	0.1	-0.18	-0.14	1	1	0	300	300	0
10/10/2024 13:52	48901	FOSP_T2	1	1	0	0.4	0.4	0	-0.14	-0.17	1	1	0	600	600	0
10/10/2024 13:52	41602	CLEV_T1	2	3	1	0.55	0.67	0.12	0	0	0	0	0	0	0	0
10/10/2024 13:52	51102	CARL_T1	5	5	0	1	1.06	0.06	0	0	0	0	0	0	0	0
10/10/2024 13:52	62102	ELAN_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
10/10/2024 13:52	51603	DUKE_T1	2	2	0	0.2	0.15	-0.05	83.96	83.96	0	0	0	0	0	0
10/10/2024 13:52	60101	COCA_T1	1	1	0	0.3	0.3	0	0.2	0.25	0	0	0	0	0	0
10/10/2024 13:52	10705	CATA_T2	0	1	1	0	1.9	1.9	0.02	0.03	0	0	0	0	0	0
10/10/2024 13:52	10707	CATA_T2	0	0	0	0	0	0	0.64	0.56	0	0	0	0	0	0
10/10/2024 13:52	45702	LIND_T2	1	3	2	1.7	0.83	-0.87	0	0	0	0	0	0	0	0
10/10/2024 13:52	45802	HEGI_T2	44	46	2	1.01	1.39	0.38	1.02	1.74	0	0	0	0	0	0
10/10/2024 13:52	45902	AUBU_T1	2	3	1	0.3	0.47	0.17	-0.14	-0.2	1	1	0	600	600	0
10/10/2024 13:52	51101	CARL_T1	2	2	0	3.15	3.2	0.05	0	0	0	0	0	0	0	0
10/10/2024 13:52	51906	COPA_T1	1	0	-1	0.2	0	-0.2	-0.99	-1.05	2	2	0	1500	1500	0
10/10/2024 13:52	52503	PROG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/10/2024 13:52	51901	COPA_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/10/2024 13:52	52202	DEVO_T2	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
10/10/2024 13:52	10704	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:52	10703	CATA_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
10/10/2024 13:52	52502	PROG_T2	5	5	0	0.3	0.42	0.12	0	0	1	1	0	900	900	0
10/10/2024 13:52	51108	CARL_T1	0	0	0	0	0	0	-0.05	-0.05	1	1	0	600	600	0
10/10/2024 13:52	10701	CATA_T2	2	4	2	0.25	0.38	0.13	0	0	0	0	0	0	0	0
10/10/2024 13:52	10702	CATA_T2	1	1	0	0.5	0.8	0.3	-0.79	-0.82	0	0	0	0	0	0
10/10/2024 13:52	10702	CATA_T2	1	1	0	0.5	0.8	0.3	-0.79	-0.82	0	0	0	0	0	0
10/10/2024 13:52	10702	CATA_T2	1	1	0	0.5	0.8	0.3	-0.79	-0.82	0	0	0	0	0	0
10/10/2024 13:52	10702	CATA_T2	1	1	0	0.5	0.8	0.3	-0.79	-0.82	0	0	0	0	0	0
10/10/2024 13:52	45701	LIND_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
10/10/2024 13:52	48902	FOSP_T2	2	2	0	0.25	0.35	0.1	-0.32	-0.48	1	1	0	1200	1200	0
10/10/2024 13:52	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:52	51902	COPA_T1	0	0	0	0	0	0	0.69	0.67	1	1	0	1200	1200	0
10/10/2024 13:53	61001	DONV_T1	2	0	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
10/10/2024 13:53	42501	ALTA_T2	1	2	1	0.5	0.45	-0.05	-0.06	-0.05	1	1	0	600	600	0
10/10/2024 13:53	10702	CATA_T2	1	1	0	0.5	0.8	0.3	-0.79	-0.82	0	0	0	0	0	0
10/10/2024 13:53	63802	HEMP_T1	2	2	0	0.2	0.2	0	0.23	0.22	0	0	0	0	0	0
10/10/2024 13:53	63801	HEMP_T1	9	8	-1	0.43	0.49	0.06	0	0	0	0	0	0	0	0
10/10/2024 13:53	48901	FOSP_T2	1	1	0	0.4	0.4	0	-0.14	-0.17	1	1	0	600	600	0
10/10/2024 13:53	63804	HEMP_T1	1	1	0	5.8	5.8	0	0.98	0.98	0	0	0	0	0	0
10/10/2024 13:53	10701	CATA_T2	2	4	2	0.25	0.38	0.13	0	0	0	0	0	0	0	0
10/10/2024 13:53	10705	CATA_T2	0	1	1	0	1.9	1.9	0.04	0.03	0	0	0	0	0	0
10/10/2024 13:53	10705	CATA_T2	0	1	1	0	1.9	1.9	0.04	0.06	0	0	0	0	0	0
10/10/2024 13:53	10705	CATA_T2	0	1	1	0	1.9	1.9	0.02	0.03	0	0	0	0	0	0
10/10/2024 13:53	10705	CATA_T2	0	1	1	0	1.9	1.9	0.02	0.06	0	0	0	0	0	0
10/10/2024 13:53	45902	AUBU_T1	2	3	1	0.3	0.47	0.17	-0.14	-0.2	1	1	0	600	600	0
10/10/2024 13:53	63803	HEMP_T1	10	7	-3	0.28	0.37	0.09	0.13	0.1	0	0	0	0	0	0
10/10/2024 13:53	45702	LIND_T2	1	3	2	1.7	0.83	-0.87	-0.56	-0.58	0	0	0	0	0	0
10/10/2024 13:53	46504	LOHA_T1	56	58	2	0.76	0.78	0.02	0	0	0	0	0	0	0	0
10/10/2024 13:53	46503	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/10/2024 13:53	46506	LOHA_T1	3	4	1	5.67	4.48	-1.19	-0.1	-0.12	0	0	0	0	0	0
10/10/2024 13:53	48902	FOSP_T2	2	2	0	0.25	0.35	0.1	-0.32	-0.48	1	1	0	1200	1200	0
10/10/2024 13:53	16004	DORN_T1	2	2	0	0.6	0.55	-0.05	-1.15	-1.13	1	1	0	1200	1200	0
10/10/2024 13:53	41304	FISH_T2	1	1	0	0	0	0	0.69	0.62	0	0	0	0	0	0
10/10/2024 13:53	16005	DORN_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/10/2024 13:54	63804	HEMP_T1	1	1	0	5.8	5.8	0	0.98	0.98	0	0	0	0	0	0
10/10/2024 13:54	63803	HEMP_T1	10	7	-3	0.28	0.37	0.09	0.13	0.1	0	0	0	0	0	0
10/10/2024 13:54	10707	CATA_T2	0	0	0	0	0	0	0.64	0.56	0	0	0	0	0	0
10/10/2024 13:54	57104	SPHI_T2	4	3	-1	1.5	1.4	-0.1	-0.46	-0.46	0	0	0	0	0	0
10/10/2024 13:54	57106	SPHI_T2	4	4	0	0.88	0.88	0	0	0	0	0	0	0	0	0
10/10/2024 13:54	48901	FOSP_T2	1	1	0	0.4	0.4	0	-0.55	-0.67	4	4	0	2400	2400	0
10/10/2024 13:54	57101	SPHI_T2	6	6	0	1	1	0	0	0	0	0	0	0	0	0
10/10/2024 13:54	10705	CATA_T2	0	1	1	0	1.9	1.9	0.02	0.03	0	0	0	0	0	0
10/10/2024 13:54	10705	CATA_T2	0	1	1	0	1.9	1.9	0.02	0.06	0	0	0	0	0	0
10/10/2024 13:54	10705	CATA_T2	0	1	1	0	1.9	1.9	0.04	0.03	0	0	0	0	0	0
10/10/2024 13:54	10705	CATA_T2	0	1	1	0	1.9	1.9	0.04	0.06	0	0	0	0	0	0
10/10/2024 13:54	10702	CATA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/10/2024 13:54	48902	FOSP_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
10/10/2024 13:54	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:54	64704	LITI_T1	1	3	2	0.2	0.27	0.07	0.18	0.04	1	1	0	600	600	0
10/10/2024 13:54	63801	HEMP_T1	9	8	-1	0.43	0.49	0.06	0	0	0	0	0	0	0	0
10/10/2024 13:54	63802	HEMP_T1	2	2	0	0.2	0.2	0	0.23	0.22	0	0	0	0	0	0
10/10/2024 13:54	10701	CATA_T2	2	4	2	0.25	0.38	0.13	0	0	0	0	0	0	0	0
10/10/2024 13:55	10705	CATA_T2	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
10/10/2024 13:55	63803	HEMP_T1	10	7	-3	0.28	0.37	0.09	0.13	0.1	0	0	0	0	0	0
10/10/2024 13:55	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/10/2024 13:55	64401	LAND_T1	0	0	0	0	0	0	-0.76	-0.8	1	1	0	600	600	0
10/10/2024 13:55	63802	HEMP_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/10/2024 13:55	48901	FOSP_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/10/2024 13:55	10702	CATA_T2	1	1	0	0.5	0.8	0.3	-0.79	-0.82	0	0	0	0	0	0
10/10/2024 13:55	63801	HEMP_T1	9	8	-1	0.43	0.49	0.06	0	0	0	0	0	0	0	0
10/10/2024 13:55	22905	HARW_T1	0	0	0	0	0	0	-0.64	-0.7	0	0	0	0	0	0
10/10/2024 13:55	42002	MNVL_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
10/10/2024 13:55	48902	FOSP_T2	2	2	0	0.25	0.35	0.1	-0.32	-0.48	1	1	0	1200	1200	0
10/10/2024 13:55	22903	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:55	42001	MNVL_T2	237	228	-9	0.59	0.57	-0.02	-0.38	-0.39	0	0	0	0	0	0
10/10/2024 13:55	63804	HEMP_T1	1	1	0	5.8	5.8	0	0.98	0.98	0	0	0	0	0	0
10/10/2024 13:55	42302	MOWR_T2	0	1	1	0	0	0	2.22	2.18	0	0	0	0	0	0
10/10/2024 13:55	10701	CATA_T2	2	4	2	0.25	0.38	0.13	0	0	0	0	0	0	0	0
10/10/2024 13:55	63306	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/10/2024 13:55	41202	KENM_T2	1	1	0	0.5	0.6	0.1	0.54	0.54	0	0	0	0	0	0
10/10/2024 13:55	63302	GREE_T1	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
10/10/2024 13:55	42301	MOWR_T2	5	5	0	0.28	0.3	0.02	-0.26	-0.28	0	0	0	0	0	0
10/10/2024 13:56	12403	MILF_T1	2	1	-1	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
10/10/2024 13:56	12401	MILF_T1	2	2	0	1.45	1.2	-0.25	0	0	0	0	0	0	0	0
10/10/2024 13:56	66703	STRA_T1	3	3	0	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
10/10/2024 13:56	48902	FOSP_T2	2	2	0	0.25	0.35	0.1	-0.32	-0.48	1	1	0	1200	1200	0
10/10/2024 13:56	59302	MCAL_T1	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/10/2024 13:56	41304	FISH_T2	1	1	0	0	0	0	0.34	0.31	0	0	0	0	0	0
10/10/2024 13:56	66504	SMAN_T2	2	7	5	0.7	0.39	-0.31	0	0	0	0	0	0	0	0
10/10/2024 13:56	66505	SMAN_T2	3	4	1	0.33	0.5	0.17	0	0	0	0	0	0	0	0
10/10/2024 13:56	59301	MCAL_T1	3	2	-1	0.7	0.9	0.2	-2.71	-2.74	2	2	0	1200	1200	0
10/10/2024 13:56	66701	STRA_T1	1	1	0	0.9	0.7	-0.2	1.16	1.35	0	0	0	0	0	0
10/10/2024 13:56	42301	MOWR_T2	5	5	0	0.28	0.3	0.02	-0.26	-0.28	0	0	0	0	0	0
10/10/2024 13:56	66503	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/10/2024 13:56	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
10/10/2024 13:56	63802	HEMP_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/10/2024 13:56	66502	SMAN_T2	10	14	4	0.39	0.41	0.02	0	0	0	0	0	0	0	0
10/10/2024 13:56	66501	SMAN_T2	2	2	0	1.25	1.25	0	0	0	0	0	0	0	0	0
10/10/2024 13:56	66001	RHEE_T2	0	1	1	0	0	0	-1.1	-1.25	2	2	0	2100	2100	0
10/10/2024 13:56	55003	NEWP_T2	16	17	1	0.89	0.76	-0.13	-0.12	-0.18	0	0	0	0	0	0
10/10/2024 13:56	10701	CATA_T2	2	4	2	0.25	0.38	0.13	0	0	0	0	0	0	0	0
10/10/2024 13:56	10705	CATA_T2	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
10/10/2024 13:56	64802	MONE_T2	9	10	1	0.52	0.46	-0.06	0.16	0.2	0	0	0	0	0	0
10/10/2024 13:56	44703	MUNC_T2	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
10/10/2024 13:56	12402	MILF_T1	1	1	0	0.8	0.5	-0.3	0.4	0.4	1	1	0	1200	1200	0
10/10/2024 13:56	42601	TUSC_T1	0	0	0	0	0	0	0.05	0.05	2	2	0	1800	1800	0
10/10/2024 13:56	10702	CATA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/10/2024 13:56	64802	MONE_T2	3	2	-1	0.7	0.7	0	0	0	0	0	0	0	0	0
10/10/2024 13:56	63801	HEMP_T1	9	8	-1	0.43	0.49	0.06	0.29	0.19	0	0	0	0	0	0
10/10/2024 13:56	44701	MUNC_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/10/2024 13:56	42302	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:56	52501	PROG_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/10/2024 13:56	48901	FOSP_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/10/2024 13:56	63803	HEMP_T1	10	7	-3	0.28	0.37	0.09	0	0	0	0	0	0	0	0
10/10/2024 13:57	13002	NBET_T2	1	0	-1	0.2	0	-0.2	-1.72	-1.7	2	2	0	2400	2400	0
10/10/2024 13:57	42302	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:57	42301	MOWR_T2	5	5	0	0.28	0.3	0.02	-0.26	-0.28	0	0	0	0	0	0
10/10/2024 13:57	55002	NEWP_T1	17	18	1	0.98	0.93	-0.05	-0.42	-0.42	0	0	0	0	0	0
10/10/2024 13:57	12403	MILF_T1	2	1	-1	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
10/10/2024 13:57	55001	NEWP_T1	8	8	0	0.28	0.41	0.13	-0.21	-0.23	0	0	0	0	0	0
10/10/2024 13:57	65202	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:57	48902	FOSP_T2	2	2	0	0.25	0.35	0.1	-0.32	-0.48	1	1	0	1200	1200	0
10/10/2024 13:57	65205	PRIN_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
10/10/2024 13:57	12401	MILF_T1	2	2	0	1.45	1.2	-0.25	-0.35	-0.36	0	0	0	0	0	0
10/10/2024 13:57	12402	MILF_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/10/2024 13:57	48901	FOSP_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/10/2024 13:57	44201	POIN_T1	0	1	1	0	0.1	0.1	-1.36	-1.39	2	2	0	2100	2100	0
10/10/2024 13:58	51002	NHAR_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
10/10/2024 13:58	67701	WERN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/10/2024 13:58	67702	WERN_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
10/10/2024 13:58	14603	SWHI_T1	2	2	0	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
10/10/2024 13:58	11504	FREE_T1	0	0	0	0	0	0	-2.46	-2.29	2	2	0	2100	2100	0
10/10/2024 13:58	42002	MNVL_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
10/10/2024 13:58	67703	WERN_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/10/2024 13:58	51004	NHAR_T1	3	3	0	4.03	4.03	0	-0.37	-0.38	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/10/2024 13:58	13002	NBET_T2	1	0	-1	0.2	0	-0.2	-1.72	-1.7	2	2	0	2400	2400	0
10/10/2024 13:58	67001	STHI_T2	107	305	198	0.14	0.16	0.02	0.08	0.06	0	0	0	0	0	0
10/10/2024 13:58	42302	MOWR_T2	0	1	1	0	0	0	2.22	2.18	0	0	0	0	0	0
10/10/2024 13:58	42301	MOWR_T2	5	5	0	0.28	0.3	0.02	-0.78	-0.84	0	0	0	0	0	0
10/10/2024 13:58	48602	POCA_T1	1	3	2	0.2	0.17	-0.03	0.4	0.38	1	1	0	1200	1200	0
10/10/2024 13:58	42001	MNVL_T2	237	228	-9	0.59	0.57	-0.02	-0.38	-0.39	0	0	0	0	0	0
10/10/2024 13:58	42601	TUSC_T1	0	0	0	0	0	0	0.05	0.05	2	2	0	1800	1800	0
10/10/2024 13:58	67002	STHI_T2	35	62	27	0.41	0.32	-0.09	0.65	0.63	0	0	0	0	0	0
10/10/2024 13:58	44201	POIN_T1	0	1	1	0	0.1	0.1	-1.36	-1.39	2	2	0	2100	2100	0
10/10/2024 13:59	44201	POIN_T1	0	1	1	0	0.1	0.1	-2.73	-2.79	4	4	0	4200	4200	0
10/10/2024 13:59	55002	NEWP_T1	17	18	1	0.98	0.93	-0.05	0	0	0	0	0	0	0	0
10/10/2024 13:59	44701	MUNC_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/10/2024 13:59	27302	PARR_T1	0	1	1	0	0.4	0.4	-0.02	0.01	0	0	0	0	0	0
10/10/2024 13:59	67002	STHI_T2	35	62	27	0.41	0.32	-0.09	1.3	1.26	0	0	0	0	0	0
10/10/2024 13:59	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 13:59	55001	NEWP_T1	8	8	0	0.28	0.41	0.13	-0.21	-0.23	0	0	0	0	0	0
10/10/2024 13:59	42501	ALTA_T2	1	2	1	0.5	0.45	-0.05	-0.06	-0.05	1	1	0	600	600	0
10/10/2024 13:59	27301	PARR_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
10/10/2024 13:59	61402	SLIT_T1	1	1	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
10/10/2024 13:59	61404	SLIT_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
10/10/2024 13:59	67001	STHI_T2	107	305	198	0.14	0.16	0.02	0	0	0	0	0	0	0	0
10/10/2024 13:59	44703	MUNC_T2	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
10/10/2024 14:00	44201	POIN_T1	0	2	2	0	0.15	0.15	-1.36	-1.39	2	2	0	2100	2100	0
10/10/2024 14:00	67001	STHI_T2	247	339	92	0.13	0.18	0.05	0.08	0.06	0	0	0	0	0	0
10/10/2024 14:00	13701	SCHN_T2	5	5	0	0.2	0.22	0.02	0	0	0	0	0	0	0	0
10/10/2024 14:00	13704	SCHN_T2	1	1	0	0.1	0.1	0	-0.34	-0.38	0	0	0	0	0	0
10/10/2024 14:00	55001	NEWP_T1	8	5	-3	0.4	0.42	0.02	0	0	0	0	0	0	0	0
10/10/2024 14:00	54601	SUMM_T2	9	9	0	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
10/10/2024 14:00	54603	SUMM_T2	0	0	0	0	0	0	-0.35	-0.3	1	1	0	900	900	0
10/10/2024 14:00	55002	NEWP_T1	18	14	-4	0.88	1.22	0.34	-0.21	-0.21	0	0	0	0	0	0
10/10/2024 14:00	67002	STHI_T2	44	83	39	0.35	0.29	-0.06	0	0	0	0	0	0	0	0
10/10/2024 14:01	44201	POIN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/10/2024 14:01	43301	WATS_T2	2	1	-1	0.25	0.1	-0.15	0.19	0.18	0	0	0	0	0	0
10/10/2024 14:01	14603	SWHI_T1	2	2	0	0.3	0.15	-0.15	-1.02	-0.99	1	1	0	600	600	0
10/10/2024 14:01	67002	STHI_T2	44	83	39	0.35	0.29	-0.06	1.95	1.89	0	0	0	0	0	0
10/10/2024 14:01	55001	NEWP_T1	8	5	-3	0.4	0.42	0.02	0	0	0	0	0	0	0	0
10/10/2024 14:01	55002	NEWP_T1	18	14	-4	0.88	1.22	0.34	-0.21	-0.21	0	0	0	0	0	0
10/10/2024 14:01	66203	SISP_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/10/2024 14:01	44202	POIN_T2	0	0	0	0	0	0	-0.45	-0.5	1	1	0	1200	1200	0
10/10/2024 14:01	14802	TREI_T2	4	4	0	0.53	0.5	-0.03	0.46	0.36	0	0	0	0	0	0
10/10/2024 14:01	43302	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/10/2024 14:01	44701	MUNC_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/10/2024 14:01	67001	STHI_T2	247	339	92	0.13	0.18	0.05	0	0	0	0	0	0	0	0
10/10/2024 14:01	14801	TREI_T2	7	9	2	0.57	0.4	-0.17	0	0	0	0	0	0	0	0
10/10/2024 14:01	44703	MUNC_T2	2	2	0	1	1	0	0.73	0.75	0	0	0	0	0	0
10/10/2024 14:02	67002	STHI_T2	44	83	39	0.35	0.29	-0.06	1.95	1.89	0	0	0	0	0	0
10/10/2024 14:02	67001	STHI_T2	247	339	92	0.13	0.18	0.05	0.08	0.06	0	0	0	0	0	0
10/10/2024 14:02	13701	SCHN_T2	5	5	0	0.2	0.22	0.02	0	0	0	0	0	0	0	0
10/10/2024 14:02	13704	SCHN_T2	1	1	0	0.1	0.1	0	-0.34	-0.38	0	0	0	0	0	0
10/10/2024 14:02	14603	SWHI_T1	2	2	0	0.3	0.15	-0.15	-1.02	-0.99	1	1	0	600	600	0
10/10/2024 14:02	44201	POIN_T1	0	2	2	0	0.15	0.15	-2.73	-2.79	4	4	0	4200	4200	0
10/10/2024 14:03	66505	SMAN_T2	4	3	-1	0.5	0.5	0	0	0	0	0	0	0	0	0
10/10/2024 14:03	67001	STHI_T2	247	339	92	0.13	0.18	0.05	0.08	0.06	0	0	0	0	0	0
10/10/2024 14:03	66502	SMAN_T2	14	20	6	0.39	0.35	-0.04	0.37	0.37	0	0	0	0	0	0
10/10/2024 14:03	67002	STHI_T2	44	83	39	0.35	0.29	-0.06	0	0	0	0	0	0	0	0
10/10/2024 14:03	66501	SMAN_T2	2	2	0	1.25	1.15	-0.1	0	0	0	0	0	0	0	0
10/10/2024 14:03	66503	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/10/2024 14:03	55002	NEWP_T1	18	14	-4	0.88	1.22	0.34	0	0	0	0	0	0	0	0
10/10/2024 14:03	55001	NEWP_T1	8	5	-3	0.4	0.42	0.02	-0.21	-0.23	0	0	0	0	0	0
10/10/2024 14:03	66504	SMAN_T2	4	9	5	0.53	0.39	-0.14	0	0	0	0	0	0	0	0
10/10/2024 14:03	13701	SCHN_T2	5	5	0	0.2	0.22	0.02	0	0	0	0	0	0	0	0
10/10/2024 14:03	13704	SCHN_T2	1	1	0	0.1	0.1	0	-0.34	-0.38	0	0	0	0	0	0
10/10/2024 14:04	67002	STHI_T2	44	83	39	0.35	0.29	-0.06	0.65	0.63	0	0	0	0	0	0
10/10/2024 14:04	66504	SMAN_T2	4	9	5	0.53	0.39	-0.14	0	0	0	0	0	0	0	0
10/10/2024 14:04	66505	SMAN_T2	4	3	-1	0.5	0.5	0	0.35	0.53	2	2	0	1800	1800	0
10/10/2024 14:04	67001	STHI_T2	247	339	92	0.13	0.18	0.05	0	0	0	0	0	0	0	0
10/10/2024 14:04	66502	SMAN_T2	14	20	6	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
10/10/2024 14:04	66501	SMAN_T2	2	2	0	1.25	1.15	-0.1	0	0	0	0	0	0	0	0
10/10/2024 14:04	66503	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/10/2024 14:05	66501	SMAN_T2	2	2	0	1.25	1.15	-0.1	0	0	0	0	0	0	0	0
10/10/2024 14:05	66504	SMAN_T2	4	9	5	0.53	0.39	-0.14	0	0	0	0	0	0	0	0
10/10/2024 14:05	66502	SMAN_T2	14	20	6	0.39	0.35	-0.04	0.37	0.37	0	0	0	0	0	0
10/10/2024 14:05	66503	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/10/2024 14:05	66505	SMAN_T2	4	3	-1	0.5	0.5	0	0	0	0	0	0	0	0	0
10/10/2024 14:06	66501	SMAN_T2	2	2	0	1.25	1.15	-0.1	0	0	0	0	0	0	0	0
10/10/2024 14:06	66502	SMAN_T2	14	20	6	0.39	0.35	-0.04	0.37	0.24	0	0	0	0	0	0
10/10/2024 14:06	66504	SMAN_T2	4	9	5	0.53	0.39	-0.14	-1.2	-1.56	0	0	0	0	0	0
10/10/2024 14:06	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 14:06	66503	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/10/2024 14:06	66505	SMAN_T2	4	3	-1	0.5	0.5	0	0	0	0	0	0	0	0	0
10/10/2024 14:07	66502	SMAN_T2	14	20	6	0.39	0.35	-0.04	0.37	0.24	0	0	0	0	0	0
10/10/2024 14:07	66504	SMAN_T2	4	9	5	0.53	0.39	-0.14	0	0	0	0	0	0	0	0
10/10/2024 14:07	66503	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/10/2024 14:07	14603	SWHI_T1	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
10/10/2024 14:07	66505	SMAN_T2	4	3	-1	0.5	0.5	0	0	0	0	0	0	0	0	0
10/10/2024 14:07	66501	SMAN_T2	2	2	0	1.25	1.15	-0.1	0	0	0	0	0	0	0	0
10/10/2024 14:07	14604	SWHI_T1	0	0	0	0	0	0	0.31	0.34	1	1	0	900	900	0
10/10/2024 14:08	66502	SMAN_T2	14	20	6	0.39	0.35	-0.04	0.37	0.24	0	0	0	0	0	0
10/10/2024 14:08	66504	SMAN_T2	4	9	5	0.53	0.39	-0.14	0	0	0	0	0	0	0	0
10/10/2024 14:08	66505	SMAN_T2	4	3	-1	0.5	0.5	0	0	0	0	0	0	0	0	0
10/10/2024 14:08	66501	SMAN_T2	2	2	0	1.25	1.15	-0.1	0	0	0	0	0	0	0	0
10/10/2024 14:08	66503	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/10/2024 14:09	66504	SMAN_T2	4	9	5	0.53	0.39	-0.14	0	0	0	0	0	0	0	0
10/10/2024 14:09	66505	SMAN_T2	4	3	-1	0.5	0.5	0	0	0	0	0	0	0	0	0
10/10/2024 14:09	66502	SMAN_T2	14	20	6	0.39	0.35	-0.04	0.37	0.24	0	0	0	0	0	0
10/10/2024 14:09	66503	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/10/2024 14:09	42501	ALTA_T2	1	2	1	0.7	0.45	-0.25	-0.05	-0.03	1	1	0	600	600	0
10/10/2024 14:09	66501	SMAN_T2	2	2	0	1.25	1.15	-0.1	0	0	0	0	0	0	0	0
10/10/2024 14:12	46802	HEPB_T1	4	4	0	0.65	0.68	0.03	-0.35	-0.36	0	0	0	0	0	0
10/10/2024 14:13	24202	PROV_T4	1	0	-1	4.4	0	-4.4	0	0	1	1	0	1200	1200	0
10/10/2024 14:14	67001	STHI_T2	247	339	92	0.13	0.18	0.05	0	0	0	0	0	0	0	0
10/10/2024 14:14	67002	STHI_T2	44	83	39	0.35	0.29	-0.06	0.63	0.64	0	0	0	0	0	0
10/10/2024 14:17	64101	REFR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/10/2024 14:17	43402	BENT_T1	2	2	0	0.65	0.5	-0.15	-0.46	-0.48	1	1	0	600	600	0
10/10/2024 14:18	43402	BENT_T1	2	2	0	0.65	0.5	-0.15	-0.46	-0.48	1	1	0	600	600	0
10/10/2024 14:19	10701	CATA_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
10/10/2024 14:19	10702	CATA_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
10/10/2024 14:19	10705	CATA_T2	1	1	0	1.9	1.8	-0.1	0.03	0.01	0	0	0	0	0	0
10/10/2024 14:20	10702	CATA_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
10/10/2024 14:20	10701	CATA_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
10/10/2024 14:20	10705	CATA_T2	1	1	0	1.9	1.8	-0.1	0.03	0.01	0	0	0	0	0	0
10/10/2024 14:22	60201	ATGL_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
10/10/2024 14:25	64704	LITI_T1	3	1	-2	0.27	0.1	-0.17	0.78	0.81	0	0	0	0	0	0
10/10/2024 14:27	64704	LITI_T1	3	1	-2	0.27	0.1	-0.17	0.78	0.81	0	0	0	0	0	0
10/10/2024 14:29	43802	SWIL_T1	0	0	0	0	0	0	-0.26	-0.26	1	1	0	600	600	0
10/10/2024 14:29	43801	SWIL_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
10/10/2024 14:29	64305	LINC_T1	1	1	0	0.6	0.7	0.1	-0.06	-0.17	0	0	0	0	0	0
10/10/2024 14:32	14802	TREI_T2	4	5	1	0.5	0.4	-0.1	0.68	0.64	0	0	0	0	0	0
10/10/2024 14:32	14801	TREI_T2	6	8	2	0.52	0.44	-0.08	0	0	0	0	0	0	0	0
10/10/2024 14:33	67603	WARW_T1	4	3	-1	0.45	0.43	-0.02	0.07	0.03	0	0	0	0	0	0
10/10/2024 14:33	67605	WARW_T1	48	55	7	0.66	0.69	0.03	0	0	0	0	0	0	0	0
10/10/2024 14:34	67603	WARW_T1	4	3	-1	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
10/10/2024 14:34	67605	WARW_T1	48	55	7	0.66	0.69	0.03	-1.06	-1.03	0	0	0	0	0	0
10/10/2024 14:34	14801	TREI_T2	6	8	2	0.52	0.44	-0.08	0	0	0	0	0	0	0	0
10/10/2024 14:34	14802	TREI_T2	4	5	1	0.5	0.4	-0.1	0.34	0.32	0	0	0	0	0	0
10/10/2024 14:35	14801	TREI_T2	6	8	2	0.52	0.44	-0.08	0	0	0	0	0	0	0	0
10/10/2024 14:35	67603	WARW_T1	4	3	-1	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
10/10/2024 14:35	67605	WARW_T1	48	55	7	0.66	0.69	0.03	-1.06	-1.03	0	0	0	0	0	0
10/10/2024 14:35	14802	TREI_T2	4	5	1	0.5	0.4	-0.1	0.34	0.32	0	0	0	0	0	0
10/10/2024 14:37	46506	LOHA_T1	3	3	0	5.07	5.3	0.23	-0.11	-0.11	0	0	0	0	0	0
10/10/2024 14:37	46504	LOHA_T1	50	37	-13	0.46	0.4	-0.06	0	0	0	0	0	0	0	0
10/10/2024 14:37	46503	LOHA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/10/2024 14:37	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 14:38	55508	HERS_T2	2	2	0	1.6	1.7	0.1	-2.52	-2.48	1	1	0	1200	1200	0
10/10/2024 14:39	55503	HERS_T1	0	0	0	0	0	0	-1.52	-1.51	1	1	0	1200	1200	0
10/10/2024 14:39	55501	HERS_T1	52	52	0	0.19	0.2	0.01	0	0	0	0	0	0	0	0
10/10/2024 14:40	60502	NMAN_T2	5	4	-1	0.44	0.18	-0.26	-0.31	-0.24	0	0	0	0	0	0
10/10/2024 14:40	60504	NMAN_T2	3	2	-1	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
10/10/2024 14:40	60501	NMAN_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
10/10/2024 14:41	55508	HERS_T2	2	2	0	1.6	1.7	0.1	-2.52	-2.48	1	1	0	1200	1200	0
10/10/2024 14:42	63602	LETO_T1	14	145	131	0.23	0.27	0.04	-0.31	-0.32	0	0	0	0	0	0
10/10/2024 14:42	63601	LETO_T1	5	9	4	0.32	0.37	0.05	0	0	0	0	0	0	0	0
10/10/2024 14:43	59302	MCAL_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
10/10/2024 14:43	59301	MCAL_T1	3	3	0	0.77	0.8	0.03	-1.57	-1.62	1	1	0	600	600	0
10/10/2024 14:44	54601	SUMM_T2	9	11	2	0.5	0.54	0.04	-1.84	-1.86	2	2	0	2100	2100	0
10/10/2024 14:46	54601	SUMM_T2	11	10	-1	0.54	0.5	-0.04	-1.84	-1.86	2	2	0	2100	2100	0
10/10/2024 14:51	55501	HERS_T1	52	52	0	0.19	0.13	-0.06	0	0	0	0	0	0	0	0
10/10/2024 14:51	55507	HERS_T1	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
10/10/2024 14:58	60502	NMAN_T2	4	1	-3	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
10/10/2024 14:58	60504	NMAN_T2	2	2	0	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
10/10/2024 14:59	60502	NMAN_T2	4	1	-3	0.18	0.1	-0.08	-0.24	-0.21	0	0	0	0	0	0
10/10/2024 14:59	55102	WERT_T2	0	0	0	0	0	0	-0.79	-0.85	1	1	0	600	600	0
10/10/2024 14:59	60504	NMAN_T2	2	2	0	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
10/10/2024 15:10	42903	MIDD_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
10/10/2024 15:10	42902	MIDD_T2	14	24	10	0.45	0.37	-0.08	-0.33	-0.85	1	1	0	600	600	0
10/10/2024 15:12	67106	SPRI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/10/2024 15:14	67106	SPRI_T2	1	1	0	0.2	0.2	0	-1.3	-1.29	1	1	0	900	900	0
10/10/2024 15:16	67106	SPRI_T2	0	1	1	0	0.2	0.2	-1.3	-1.29	1	1	0	900	900	0
10/10/2024 15:17	67106	SPRI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/10/2024 15:18	20403	ASHF_T2	110	79	-31	0.34	0.26	-0.08	0.86	0.88	0	0	0	0	0	0
10/10/2024 15:18	20401	ASHF_T2	4	2	-2	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
10/10/2024 15:20	61301	EARL_T1	0	0	0	0	0	0	-1.15	-1.16	2	2	0	1800	1800	0
10/10/2024 15:22	63401	HONY_T1	0	0	0	0	0	0	0.05	-0.08	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/10/2024 15:23	63401	HONY_T1	0	0	0	0	0	0	0.05	-0.08	1	1	0	600	600	0
10/10/2024 15:24	20201	JERM_T1	0	0	0	0	0	0	-0.41	-0.44	2	2	0	2400	2400	0
10/10/2024 15:33	24001	WIBA_T1	0	1	1	0	0	0	0.96	1.01	0	0	0	0	0	0
10/10/2024 15:33	24004	WIBA_T1	12	1	-11	0.1	0.1	0	0	0	0	0	0	0	0	0
10/10/2024 15:40	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 15:40	21206	ECAR_T2	1	1	0	7.1	6.9	-0.2	1.06	0.98	0	0	0	0	0	0
10/10/2024 15:42	48301	ORWI_T1	2	2	0	4.75	4.8	0.05	0	0	1	1	0	900	900	0
10/10/2024 15:43	48301	ORWI_T1	2	2	0	4.75	4.8	0.05	0	0	1	1	0	900	900	0
10/10/2024 15:44	66701	STRA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/10/2024 15:44	24201	PROV_T3	1	6	5	8.1	1.25	-6.85	-1.54	-1.53	1	1	0	1200	1200	0
10/10/2024 15:44	66703	STRA_T1	0	0	0	0	0	0	0.06	-0.06	0	0	0	0	0	0
10/10/2024 15:44	24204	PROV_T3	1	1	0	6.2	5.6	-0.6	0	0	0	0	0	0	0	0
10/10/2024 15:54	62106	ELAN_T1	0	0	0	0	0	0	1.03	0.47	0	0	0	0	0	0
10/10/2024 15:59	65002	NEFF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/10/2024 15:59	65004	NEFF_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/10/2024 15:59	65003	NEFF_T2	76	35	-41	0.18	0.17	-0.01	-1.67	-0.59	2	1	-1	1800	600	-1200
10/10/2024 15:59	65001	NEFF_T2	70	90	20	0.13	0.14	0.01	0	0	0	0	0	0	0	0
10/10/2024 15:59	65005	NEFF_T2	2	2	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
10/10/2024 16:06	23203	HIRU_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
10/10/2024 16:08	23203	HIRU_T2	0	0	0	0	0	0	0.06	0.11	0	0	0	0	0	0
10/10/2024 16:10	50107	HARR_T3	1	1	0	7.5	6.8	-0.7	0	0	0	0	0	0	0	0
10/10/2024 16:10	50103	HARR_T3	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/10/2024 16:10	50105	HARR_T3	6	6	0	5.92	5.55	-0.37	0	0	0	0	0	0	0	0
10/10/2024 16:12	65802	RTWN_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
10/10/2024 16:15	55501	HERS_T1	52	52	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/10/2024 16:15	55507	HERS_T1	3	4	1	0.1	0.2	0.1	0.14	0.12	0	0	0	0	0	0
10/10/2024 16:16	67502	WEWI_T2	172	367	195	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
10/10/2024 16:16	67503	WEWI_T2	3	6	3	3.47	1.8	-1.67	-0.26	-0.28	0	0	0	0	0	0
10/10/2024 16:17	67502	WEWI_T2	172	367	195	0.27	0.26	-0.01	-0.38	-0.42	0	0	0	0	0	0
10/10/2024 16:17	67503	WEWI_T2	3	6	3	3.47	1.8	-1.67	-0.52	-0.56	0	0	0	0	0	0
10/10/2024 16:18	67501	WEWI_T1	1	1	0	0.6	0.2	-0.4	-0.49	-0.49	0	0	0	0	0	0
10/10/2024 16:19	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 16:20	12302	LANA_T2	0	0	0	0	0	0	-1.73	-1.7	2	2	0	1500	1500	0
10/10/2024 16:21	67502	WEWI_T2	172	367	195	0.27	0.26	-0.01	-0.42	-0.45	0	0	0	0	0	0
10/10/2024 16:21	67503	WEWI_T2	3	6	3	3.47	1.8	-1.67	0	0	0	0	0	0	0	0
10/10/2024 16:23	14204	EALL_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
10/10/2024 16:23	20603	GRWO_T2	746	866	120	0.63	0.59	-0.04	0	0	0	0	0	0	0	0
10/10/2024 16:23	20601	GRWO_T2	17	24	7	0.18	0.2	0.02	0.86	0.82	0	0	0	0	0	0
10/10/2024 16:23	20602	GRWO_T2	349	299	-50	0.31	0.36	0.05	0	0	0	0	0	0	0	0
10/10/2024 16:24	20601	GRWO_T2	17	24	7	0.18	0.2	0.02	0	0	0	0	0	0	0	0
10/10/2024 16:24	20602	GRWO_T2	349	299	-50	0.31	0.36	0.05	0	0	0	0	0	0	0	0
10/10/2024 16:24	20603	GRWO_T2	746	866	120	0.63	0.59	-0.04	0.39	0.37	0	0	0	0	0	0
10/10/2024 16:24	50502	MECH_T1	117	133	16	0.24	0.48	0.24	0	0	0	0	0	0	0	0
10/10/2024 16:24	50501	MECH_T1	4	4	0	0.93	0.88	-0.05	0	0	0	0	0	0	0	0
10/10/2024 16:24	50506	MECH_T1	0	0	0	0	0	0	-0.02	-0.1	0	0	0	0	0	0
10/10/2024 16:25	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 16:27	50501	MECH_T1	4	4	0	0.93	0.88	-0.05	0.23	0.43	0	0	0	0	0	0
10/10/2024 16:27	50502	MECH_T1	117	133	16	0.24	0.48	0.24	0	0	0	0	0	0	0	0
10/10/2024 16:28	47402	PENS_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/10/2024 16:28	47401	PENS_T1	2	1	-1	0.3	0.2	-0.1	0.52	0.41	0	0	0	0	0	0
10/10/2024 16:31	60201	ATGL_T2	0	0	0	0	0	0	0.54	0.46	0	0	0	0	0	0
10/10/2024 16:32	24002	WIBA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 16:32	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 16:32	24004	WIBA_T1	25	71	46	0.11	0.15	0.04	0	0	0	0	0	0	0	0
10/10/2024 16:35	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 16:39	59003	MIFF_T1	0	1	1	0	0.2	0.2	0.79	0.6	0	0	0	0	0	0
10/10/2024 16:39	59001	MIFF_T1	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
10/10/2024 16:39	59002	MIFF_T1	6	6	0	0.62	0.97	0.35	0	0	0	0	0	0	0	0
10/10/2024 16:40	50502	MECH_T1	132	131	-1	0.42	0.49	0.07	0	0	0	0	0	0	0	0
10/10/2024 16:40	50506	MECH_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
10/10/2024 16:40	50501	MECH_T1	4	4	0	0.88	0.85	-0.03	0	0	0	0	0	0	0	0
10/10/2024 16:41	50502	MECH_T1	132	131	-1	0.42	0.49	0.07	0	0	0	0	0	0	0	0
10/10/2024 16:41	50505	MECH_T1	0	0	0	0	0	0	-0.93	-0.97	0	0	0	0	0	0
10/10/2024 16:41	50501	MECH_T1	4	4	0	0.88	0.85	-0.03	0	0	0	0	0	0	0	0
10/10/2024 16:42	65502	MOJO_T2	0	0	0	0	0	0	-0.45	-0.58	0	0	0	0	0	0
10/10/2024 16:42	50502	MECH_T1	132	131	-1	0.42	0.49	0.07	0	0	0	0	0	0	0	0
10/10/2024 16:42	50501	MECH_T1	4	4	0	0.88	0.85	-0.03	0.43	0.33	0	0	0	0	0	0
10/10/2024 16:44	50501	MECH_T1	4	4	0	0.88	0.85	-0.03	0	0	0	0	0	0	0	0
10/10/2024 16:44	50502	MECH_T1	132	131	-1	0.42	0.49	0.07	0	0	0	0	0	0	0	0
10/10/2024 16:44	47402	PENS_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/10/2024 16:44	50506	MECH_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
10/10/2024 16:44	47401	PENS_T1	1	1	0	0.2	0.1	-0.1	0.41	0.37	0	0	0	0	0	0
10/10/2024 16:50	12602	MACA_T1	1	1	0	1.4	0	-1.4	0	0	0	0	0	0	0	0
10/10/2024 16:50	12606	MACA_T1	1	0	-1	4.3	0	-4.3	0.63	0.62	0	0	0	0	0	0
10/10/2024 16:50	45802	HEGI_T2	2	5	3	0.7	0	-0.7	1.15	1.3	0	0	0	0	0	0
10/10/2024 16:57	65206	PRIN_T4	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
10/10/2024 16:57	65207	PRIN_T4	58	169	111	0.16	0.17	0.01	0	0	2	2	0	1800	1800	0
10/10/2024 17:00	54203	PENN_T1	18	19	1	1.07	1.12	0.05	0	0	0	0	0	0	0	0
10/10/2024 17:00	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/10/2024 17:00	65205	PRIN_T1	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
10/10/2024 17:00	54201	PENN_T1	11	11	0	0.68	0.81	0.13	0	0	0	0	0	0	0	0
10/10/2024 17:01	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 17:01	65207	PRIN_T4	167	115	-52	0.17	0.17	0	0	0	0	0	0	0	0	0
10/10/2024 17:01	65206	PRIN_T4	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/10/2024 17:04	60102	COCA_T1	0	0	0	0	0	0	-0.07	-0.07	2	2	0	1200	1200	0
10/10/2024 17:06	46001	BERW_T1	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
10/10/2024 17:09	65005	NEFF_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
10/10/2024 17:09	65002	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/10/2024 17:09	65001	NEFF_T2	246	233	-13	0.35	0.27	-0.08	-1	-0.98	1	1	0	1200	1200	0
10/10/2024 17:09	65003	NEFF_T2	5	4	-1	0.18	0.23	0.05	0	0	0	0	0	0	0	0
10/10/2024 17:13	65002	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/10/2024 17:13	65001	NEFF_T2	246	233	-13	0.35	0.27	-0.08	-1	-0.98	1	1	0	1200	1200	0
10/10/2024 17:13	65005	NEFF_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
10/10/2024 17:13	65003	NEFF_T2	5	4	-1	0.18	0.23	0.05	0	0	0	0	0	0	0	0
10/10/2024 17:16	13701	SOHN_T2	0	0	0	0	0	0	-0.13	-0.11	1	1	0	600	600	0
10/10/2024 17:18	59102	WALK_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
10/10/2024 17:22	24102	EHAZ_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/10/2024 17:22	24105	EHAZ_T1	4	4	0	5.95	5.88	-0.07	0	0	0	0	0	0	0	0
10/10/2024 17:22	24104	EHAZ_T1	0	0	0	0	0	0	-0.87	-0.88	1	1	0	1200	1200	0
10/10/2024 17:27	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/10/2024 17:28	59003	MIFF_T1	0	0	0	0	0	0	0.51	0.61	0	0	0	0	0	0
10/10/2024 17:28	59002	MIFF_T1	5	6	1	0.56	0.53	-0.03	0	0	0	0	0	0	0	0
10/10/2024 17:29	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/10/2024 17:29	55002	NEWP_T1	6	6	0	1.2	1.1	-0.1	-0.25	-0.25	0	0	0	0	0	0
10/10/2024 17:30	43302	WATS_T2	4	4	0	0.7	0.83	0.13	0	0	0	0	0	0	0	0
10/10/2024 17:30	45602	WOOL_T1	5	5	0	0.3	0.24	-0.06	0.55	0.53	0	0	0	0	0	0
10/10/2024 17:30	43304	WATS_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
10/10/2024 17:31	45602	WOOL_T1	5	5	0	0.3	0.24	-0.06	0.55	0.53	0	0	0	0	0	0
10/10/2024 17:31	59402	RFLD_T2	0	0	0	0	0	0	-0.89	-0.89	1	1	0	450	450	0
10/10/2024 17:32	43304	WATS_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
10/10/2024 17:32	43302	WATS_T2	4	4	0	0.7	0.83	0.13	0	0	0	0	0	0	0	0
10/10/2024 17:33	43506	WWIL_T1	1	3	2	2	0.8	-1.2	0	0	0	0	0	0	0	0
10/10/2024 17:33	43505	WWIL_T1	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
10/10/2024 17:33	43504	WWIL_T1	10	12	2	0.34	0.35	0.01	0.56	0.53	0	0	0	0	0	0
10/10/2024 17:33	54505	ENOL_T2	1	1	0	1.1	0.9	-0.2	-1.38	-1.38	1	1	0	600	600	0
10/10/2024 17:33	54502	ENOL_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
10/10/2024 17:38	66901	SHIL_T2	0	0	0	0	0	0	-0.41	-0.36	0	0	0	0	0	0
10/10/2024 17:46	67402	WAKE_T2	0	0	0	0	0	0	-0.47	-0.48	1	1	0	600	600	0
10/10/2024 17:52	52202	DEVO_T2	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
10/10/2024 17:53	65001	NEFF_T2	164	227	63	0.16	0.26	0.1	-0.98	-1.07	1	1	0	1200	1200	0
10/10/2024 17:53	65003	NEFF_T2	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/10/2024 17:57	41903	REED_T1	0	0	0	0	0	0	-0.33	-0.35	1	1	0	1200	1200	0
10/10/2024 17:57	41901	REED_T1	1	9	8	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
10/10/2024 18:11	40702	FFLD_T1	23	27	4	0.16	0.16	0	0	0	0	0	0	0	0	0
10/10/2024 18:11	40703	FFLD_T1	3	3	0	0.27	0.27	0	0.4	0.39	0	0	0	0	0	0
10/10/2024 18:11	40701	FFLD_T1	27	30	3	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
10/10/2024 18:12	43801	SWIL_T1	2	5	3	3.25	1.38	-1.87	0	0	0	0	0	0	0	0
10/10/2024 18:12	43802	SWIL_T1	0	0	0	0	0	0	-0.21	-0.23	1	1	0	600	600	0
10/10/2024 18:21	61801	EELI_T2	0	0	0	0	0	0	-0.97	-1.01	1	1	0	600	600	0
10/10/2024 20:04	67502	WEWI_T2	0	18	18	0	0.13	0.13	-0.55	-0.48	0	0	0	0	0	0
10/10/2024 20:04	67503	WEWI_T2	1	1	0	8.2	8.6	0.4	0	0	0	0	0	0	0	0
10/11/2024 10:19	15203	SFAR_T2	3	3	0	0.47	0.43	-0.04	-1.39	-1.4	0	0	0	0	0	0
10/11/2024 10:19	15204	SFAR_T2	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/11/2024 10:20	13503	MCMI_T2	0	1	1	0	0.7	0.7	-0.01	-0.01	0	0	0	0	0	0
10/11/2024 10:22	57002	WHHI_T2	0	0	0	0	0	0	-1.57	-1.52	0	0	0	0	0	0
10/11/2024 10:23	15203	SFAR_T2	3	3	0	0.47	0.43	-0.04	-1.4	-1.4	0	0	0	0	0	0
10/11/2024 10:23	54601	SUMM_T2	5	7	2	0.56	0.44	-0.12	0	0	0	0	0	0	0	0
10/11/2024 10:23	67201	TEHI_T1	0	1	1	0	0.2	0.2	1.41	1.37	1	1	0	900	900	0
10/11/2024 10:23	15204	SFAR_T2	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/11/2024 10:23	54603	SUMM_T2	0	0	0	0	0	0	-0.37	-0.37	1	1	0	900	900	0
10/11/2024 10:24	20401	ASHF_T2	4	4	0	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
10/11/2024 10:24	20402	ASHF_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
10/11/2024 10:24	45902	AUBU_T1	0	0	0	0	0	0	0.58	0.57	1	1	0	600	600	0
10/11/2024 10:24	20403	ASHF_T2	1	7	6	0.3	0.24	-0.06	2.4	2.57	0	0	0	0	0	0
10/11/2024 10:25	14802	TREI_T2	0	3	3	0	0.2	0.2	0.35	0.44	0	0	0	0	0	0
10/11/2024 10:25	64602	LEOL_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
10/11/2024 10:25	14801	TREI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/11/2024 10:26	20403	ASHF_T2	1	7	6	0.3	0.24	-0.06	1.2	1.28	0	0	0	0	0	0
10/11/2024 10:26	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 10:26	42701	AUGU_T1	1	2	1	0.9	0.6	-0.3	0	0	2	2	0	1800	1800	0
10/11/2024 10:26	60801	BUCK_T1	1	4	3	0.5	0.23	-0.27	-0.63	-0.62	1	1	0	600	600	0
10/11/2024 10:26	20401	ASHF_T2	4	4	0	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
10/11/2024 10:26	20402	ASHF_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
10/11/2024 10:27	44801	EDAN_T2	139	185	46	0.43	0.94	0.51	-1.68	-1.7	0	0	0	0	0	0
10/11/2024 10:27	44802	EDAN_T2	0	3	3	0	0.37	0.37	-0.9	-0.88	0	0	0	0	0	0
10/11/2024 10:28	10701	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/11/2024 10:28	10702	CATA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/11/2024 10:28	10705	CATA_T2	0	1	1	0	1.1	1.1	-0.02	-0.04	0	0	0	0	0	0
10/11/2024 10:28	60801	BUCK_T1	1	4	3	0.5	0.23	-0.27	-1.26	-1.24	2	2	0	1200	1200	0
10/11/2024 10:29	44801	EDAN_T2	139	185	46	0.43	0.94	0.51	-1.68	-1.7	0	0	0	0	0	0
10/11/2024 10:29	44802	EDAN_T2	0	3	3	0	0.37	0.37	-0.9	-0.88	0	0	0	0	0	0
10/11/2024 10:30	65601	QVIL_T2	3	1	-2	0.5	0.8	0.3	-1.2	-1.15	1	1	0	900	900	0
10/11/2024 10:30	63501	HEID_TBK1-2	28	5	-23	0.23	0.56	0.33	-0.33	0.24	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/11/2024 10:30	44802	EDAN_T2	1	3	2	0.1	0.37	0.27	-2.71	-2.63	0	0	0	0	0	0
10/11/2024 10:30	44801	EDAN_T2	180	183	3	0.77	0.95	0.18	0	0	0	0	0	0	0	0
10/11/2024 10:31	44801	EDAN_T2	180	183	3	0.77	0.95	0.18	0	0	0	0	0	0	0	0
10/11/2024 10:31	44802	EDAN_T2	1	3	2	0.1	0.37	0.27	-0.9	-0.88	0	0	0	0	0	0
10/11/2024 10:31	63501	HEID_TBK1-2	28	5	-23	0.23	0.56	0.33	-0.33	0.24	1	1	0	900	900	0
10/11/2024 10:32	45702	LIND_T2	3	5	2	0.57	0.74	0.17	-0.51	-0.51	0	0	0	0	0	0
10/11/2024 10:32	45701	LIND_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/11/2024 10:33	61001	DONV_T1	2	1	-1	0.85	1	0.15	0	0	0	0	0	0	0	0
10/11/2024 10:33	64305	LINC_T1	1	1	0	0.3	0.3	0	-0.18	-0.23	0	0	0	0	0	0
10/11/2024 10:33	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 10:34	45701	LIND_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/11/2024 10:34	45702	LIND_T2	3	5	2	0.57	0.74	0.17	-0.51	-0.51	0	0	0	0	0	0
10/11/2024 10:34	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
10/11/2024 10:34	64305	LINC_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/11/2024 10:35	40602	PIGR_T1	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
10/11/2024 10:35	40601	PIGR_T1	257	248	-9	0.64	0.56	-0.08	0.01	0.06	0	0	0	0	0	0
10/11/2024 10:35	40603	PIGR_T1	1	3	2	0.5	0.57	0.07	0	0	0	0	0	0	0	0
10/11/2024 10:35	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 10:35	15204	SFAR_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/11/2024 10:35	15203	SFAR_T2	3	4	1	0.43	0.4	-0.03	-1.4	-1.4	0	0	0	0	0	0
10/11/2024 10:36	54601	SUMM_T2	6	7	1	0.5	0.3	-0.2	-1.86	-1.91	2	2	0	2100	2100	0
10/11/2024 10:36	40603	PIGR_T1	1	3	2	0.5	0.57	0.07	0	0	0	0	0	0	0	0
10/11/2024 10:36	40602	PIGR_T1	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
10/11/2024 10:36	65503	MOJO_T2	0	1	1	0	0.3	0.3	-1.05	-0.08	0	1	1	0	900	900
10/11/2024 10:36	57201	ROSS_T1	37	7	-30	0.21	0.13	-0.08	0	0	0	0	0	0	0	0
10/11/2024 10:36	57203	ROSS_T1	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
10/11/2024 10:36	66501	SMAN_T2	1	2	1	0.2	0.95	0.75	0	0	0	0	0	0	0	0
10/11/2024 10:36	66505	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/11/2024 10:36	15204	SFAR_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/11/2024 10:36	15203	SFAR_T2	3	4	1	0.43	0.4	-0.03	-1.4	-1.4	0	0	0	0	0	0
10/11/2024 10:36	66502	SMAN_T2	1	11	10	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
10/11/2024 10:36	66504	SMAN_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
10/11/2024 10:36	40601	PIGR_T1	257	248	-9	0.64	0.56	-0.08	0	0	0	0	0	0	0	0
10/11/2024 10:36	40601	PIGR_T1	257	248	-9	0.64	0.56	-0.08	0	0	0	0	0	0	0	0
10/11/2024 10:36	57205	ROSS_T1	4	3	-1	0.68	0.77	0.09	0	0	0	0	0	0	0	0
10/11/2024 10:37	40602	PIGR_T1	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
10/11/2024 10:37	40603	PIGR_T1	1	3	2	0.5	0.57	0.07	0.38	0.38	0	0	0	0	0	0
10/11/2024 10:37	40601	PIGR_T1	257	248	-9	0.64	0.56	-0.08	0.06	0.04	0	0	0	0	0	0
10/11/2024 10:38	40603	PIGR_T1	1	3	2	0.5	0.57	0.07	0	0	0	0	0	0	0	0
10/11/2024 10:38	57205	ROSS_T1	4	3	-1	0.68	0.77	0.09	0	0	0	0	0	0	0	0
10/11/2024 10:38	57201	ROSS_T1	37	7	-30	0.21	0.13	-0.08	-2.2	-2.07	0	0	0	0	0	0
10/11/2024 10:38	40601	PIGR_T1	257	248	-9	0.64	0.56	-0.08	0	0	0	0	0	0	0	0
10/11/2024 10:38	40602	PIGR_T1	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
10/11/2024 10:39	57205	ROSS_T1	4	3	-1	0.68	0.77	0.09	0	0	0	0	0	0	0	0
10/11/2024 10:39	14705	TREX_T1	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
10/11/2024 10:39	67503	WEWI_T2	3	1	-2	3.33	9.1	5.77	0	0	0	0	0	0	0	0
10/11/2024 10:39	40603	PIGR_T1	1	3	2	0.5	0.57	0.07	0	0	0	0	0	0	0	0
10/11/2024 10:39	67502	WEWI_T2	123	47	-76	0.22	0.3	0.08	-0.78	-0.82	0	0	0	0	0	0
10/11/2024 10:39	57203	ROSS_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
10/11/2024 10:39	40601	PIGR_T1	257	248	-9	0.64	0.56	-0.08	0	0	0	0	0	0	0	0
10/11/2024 10:39	40602	PIGR_T1	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
10/11/2024 10:39	57201	ROSS_T1	37	7	-30	0.21	0.13	-0.08	0	0	0	0	0	0	0	0
10/11/2024 10:39	55101	WERT_T1	0	0	0	0	0	0	-0.68	-0.67	1	1	0	600	600	0
10/11/2024 10:40	67503	WEWI_T2	3	1	-2	3.33	9.1	5.77	-0.24	-0.25	0	0	0	0	0	0
10/11/2024 10:40	60201	ATGL_T2	111	86	-25	0.38	0.24	-0.14	-0.43	-0.39	0	0	0	0	0	0
10/11/2024 10:40	66505	SMAN_T2	0	2	2	0	0.35	0.35	0.43	0.3	1	1	0	900	900	0
10/11/2024 10:40	66504	SMAN_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
10/11/2024 10:40	67502	WEWI_T2	123	47	-76	0.22	0.3	0.08	-0.39	-0.41	0	0	0	0	0	0
10/11/2024 10:40	66502	SMAN_T2	1	11	10	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
10/11/2024 10:40	66501	SMAN_T2	1	2	1	0.2	0.95	0.75	0	0	0	0	0	0	0	0
10/11/2024 10:40	45902	AUBU_T1	0	0	0	0	0	0	0.57	0.5	1	1	0	600	600	0
10/11/2024 10:40	55101	WERT_T1	0	0	0	0	0	0	-0.68	-0.67	1	1	0	600	600	0
10/11/2024 10:41	67502	WEWI_T2	123	47	-76	0.22	0.3	0.08	-0.78	-0.82	0	0	0	0	0	0
10/11/2024 10:41	46501	LOHA_T1	1	0	-1	2.9	0	-2.9	0	0	0	0	0	0	0	0
10/11/2024 10:41	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
10/11/2024 10:41	46506	LOHA_T1	4	4	0	2.73	3.28	0.55	0	0	0	0	0	0	0	0
10/11/2024 10:41	67503	WEWI_T2	3	1	-2	3.33	9.1	5.77	-0.24	-0.25	0	0	0	0	0	0
10/11/2024 10:42	67505	WEWI_T1	4	4	0	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
10/11/2024 10:42	67501	WEWI_T1	5	5	0	0.9	0.86	-0.04	-0.51	-0.51	0	0	0	0	0	0
10/11/2024 10:42	16101	BING_T2	0	1	1	0	0.1	0.1	0.32	0.34	0	0	0	0	0	0
10/11/2024 10:42	67503	WEWI_T2	3	1	-2	3.33	9.1	5.77	-0.24	-0.25	0	0	0	0	0	0
10/11/2024 10:42	67502	WEWI_T2	123	47	-76	0.22	0.3	0.08	-0.39	-0.41	0	0	0	0	0	0
10/11/2024 10:42	67605	WARW_T1	29	24	-5	0.54	0.56	0.02	0	0	0	0	0	0	0	0
10/11/2024 10:42	14802	TREI_T2	3	3	0	0.2	0.37	0.17	0.44	0.35	0	0	0	0	0	0
10/11/2024 10:42	14801	TREI_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
10/11/2024 10:42	67603	WARW_T1	2	2	0	0.15	0.25	0.1	0.05	0.05	0	0	0	0	0	0
10/11/2024 10:43	14802	TREI_T2	3	3	0	0.2	0.37	0.17	0	0	0	0	0	0	0	0
10/11/2024 10:43	14801	TREI_T2	0	1	1	0	0.6	0.6	0.33	0.35	0	0	0	0	0	0
10/11/2024 10:43	67503	WEWI_T2	3	1	-2	3.33	9.1	5.77	0	0	0	0	0	0	0	0
10/11/2024 10:43	67502	WEWI_T2	123	47	-76	0.22	0.3	0.08	-0.39	-0.41	0	0	0	0	0	0
10/11/2024 10:44	41902	REED_T1	0	1	1	0	0.1	0.1	0.84	0.96	0	0	0	0	0	0
10/11/2024 10:44	45902	AUBU_T1	0	0	0	0	0	0	0.57	0.5	1	1	0	600	600	0
10/11/2024 10:46	64704	LITI_T1	0	2	2	0	0.25	0.25	0.3	0.33	1	1	0	600	600	0
10/11/2024 10:47	64704	LITI_T1	0	2	2	0	0.25	0.25	0.3	0.33	1	1	0	600	600	0
10/11/2024 10:47	64904	MILL_T1	1	0	-1	0.1	0	-0.1	0.42	0.4	0	0	0	0	0	0
10/11/2024 10:47	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 10:48	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 10:49	65501	MOJO_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/11/2024 10:50	15702	TANN_T2	0	1	1	0	0	0	-0.86	-0.81	0	0	0	0	0	0
10/11/2024 10:50	15703	TANN_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
10/11/2024 10:52	13701	SCHN_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/11/2024 10:52	13704	SCHN_T2	0	1	1	0	0	0	-0.35	-0.35	0	0	0	0	0	0
10/11/2024 10:54	57403	SPAN_T1	16	27	11	0.23	0.26	0.03	-0.02	-0.02	0	0	0	0	0	0
10/11/2024 10:54	15001	BLMO_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
10/11/2024 10:54	57401	SPAN_T1	2	2	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
10/11/2024 10:56	67603	WARW_T1	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/11/2024 10:56	67605	WARW_T1	22	33	11	0.53	0.56	0.03	-1.06	-1.12	0	0	0	0	0	0
10/11/2024 10:56	20403	ASHF_T2	2	4	2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
10/11/2024 10:56	20401	ASHF_T2	3	5	2	0.4	0.32	-0.08	-0.4	-0.39	0	0	0	0	0	0
10/11/2024 10:56	20402	ASHF_T2	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
10/11/2024 10:57	15001	BLMO_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
10/11/2024 10:57	48902	FOSP_T2	2	2	0	0.2	0.65	0.45	-1.19	-1.22	2	2	0	2400	2400	0
10/11/2024 10:57	67603	WARW_T1	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/11/2024 10:57	67605	WARW_T1	22	33	11	0.53	0.56	0.03	-1.06	-1.12	0	0	0	0	0	0
10/11/2024 10:58	40702	FFLD_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
10/11/2024 10:58	40703	FFLD_T1	1	4	3	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/11/2024 10:58	40701	FFLD_T1	28	58	30	0.19	0.31	0.12	0	0	0	0	0	0	0	0
10/11/2024 10:59	48902	FOSP_T2	2	2	0	0.2	0.65	0.45	0	0	0	0	0	0	0	0
10/11/2024 10:59	48901	FOSP_T2	0	0	0	0	0	0	0.11	0.02	1	1	0	600	600	0
10/11/2024 11:00	63501	HEID_TBK1-2	5	6	1	0.44	0.58	0.14	0.69	0.71	0	0	0	0	0	0
10/11/2024 11:00	48902	FOSP_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
10/11/2024 11:00	54502	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/11/2024 11:00	54506	ENOL_T2	0	0	0	0	0	0	0.59	0.38	1	1	0	600	600	0
10/11/2024 11:00	54505	ENOL_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
10/11/2024 11:00	48901	FOSP_T2	0	0	0	0	0	0	0.11	0.02	1	1	0	600	600	0
10/11/2024 11:01	57104	SPHI_T2	2	3	1	0.95	1.05	0.1	-0.5	-0.47	0	0	0	0	0	0
10/11/2024 11:01	48902	FOSP_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
10/11/2024 11:01	57106	SPHI_T2	3	3	0	1.23	1.17	-0.06	0	0	0	0	0	0	0	0
10/11/2024 11:01	57101	SPHI_T2	6	6	0	1.18	1.03	-0.15	0	0	0	0	0	0	0	0
10/11/2024 11:01	48901	FOSP_T2	0	0	0	0	0	0	0.11	0.02	1	1	0	600	600	0
10/11/2024 11:02	48902	FOSP_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
10/11/2024 11:02	57702	PAXT_T1	1	1	0	0.5	0.9	0.4	-0.01	0.01	0	0	0	0	0	0
10/11/2024 11:02	48901	FOSP_T2	0	0	0	0	0	0	0.11	0.02	1	1	0	600	600	0
10/11/2024 11:02	63501	HEID_TBK1-2	5	6	1	0.44	0.58	0.14	1.38	1.42	0	0	0	0	0	0
10/11/2024 11:03	48902	FOSP_T2	2	2	0	0.55	0.65	0.1	-1.19	-1.22	2	2	0	2400	2400	0
10/11/2024 11:04	42902	MIDD_T2	0	1	1	0	0.4	0.4	-0.13	-0.25	1	1	0	600	600	0
10/11/2024 11:04	42903	MIDD_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/11/2024 11:05	42902	MIDD_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/11/2024 11:05	42903	MIDD_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/11/2024 11:05	25402	LAHA_T2	0	0	0	0	0	0	-0.44	-0.34	0	0	0	0	0	0
10/11/2024 11:06	66501	SMAN_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
10/11/2024 11:06	66502	SMAN_T2	11	19	8	0.25	0.36	0.11	0.27	0.29	0	0	0	0	0	0
10/11/2024 11:06	66504	SMAN_T2	2	2	0	0.6	0.85	0.25	-0.44	-0.48	0	0	0	0	0	0
10/11/2024 11:06	66505	SMAN_T2	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
10/11/2024 11:07	66501	SMAN_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
10/11/2024 11:07	66502	SMAN_T2	11	19	8	0.25	0.36	0.11	0.27	0.29	0	0	0	0	0	0
10/11/2024 11:07	66505	SMAN_T2	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
10/11/2024 11:07	66504	SMAN_T2	2	2	0	0.6	0.85	0.25	0	0	0	0	0	0	0	0
10/11/2024 11:08	66502	SMAN_T2	11	19	8	0.25	0.36	0.11	0.27	0.29	0	0	0	0	0	0
10/11/2024 11:08	66505	SMAN_T2	2	2	0	0.35	0.4	0.05	0.3	0.42	1	1	0	900	900	0
10/11/2024 11:08	66501	SMAN_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
10/11/2024 11:08	66504	SMAN_T2	2	2	0	0.6	0.85	0.25	-0.44	-0.48	0	0	0	0	0	0
10/11/2024 11:09	66504	SMAN_T2	2	2	0	0.6	0.85	0.25	-0.44	-0.48	0	0	0	0	0	0
10/11/2024 11:09	66501	SMAN_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
10/11/2024 11:09	66505	SMAN_T2	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
10/11/2024 11:09	66503	SMAN_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
10/11/2024 11:09	66502	SMAN_T2	11	19	8	0.25	0.36	0.11	0.27	0.29	0	0	0	0	0	0
10/11/2024 11:10	66501	SMAN_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
10/11/2024 11:10	57403	SPAN_T1	16	27	11	0.23	0.28	0.05	-0.02	-0.04	0	0	0	0	0	0
10/11/2024 11:10	66504	SMAN_T2	2	2	0	0.6	0.85	0.25	-0.44	-0.48	0	0	0	0	0	0
10/11/2024 11:10	66502	SMAN_T2	11	19	8	0.25	0.36	0.11	0.27	0.29	0	0	0	0	0	0
10/11/2024 11:10	66505	SMAN_T2	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
10/11/2024 11:10	57401	SPAN_T1	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
10/11/2024 11:11	66505	SMAN_T2	2	2	0	0.35	0.4	0.05	0.6	0.84	2	2	0	1800	1800	0
10/11/2024 11:11	66502	SMAN_T2	11	19	8	0.25	0.36	0.11	0.27	0.29	0	0	0	0	0	0
10/11/2024 11:11	66501	SMAN_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
10/11/2024 11:11	66504	SMAN_T2	2	2	0	0.6	0.85	0.25	-0.44	-0.48	0	0	0	0	0	0
10/11/2024 11:12	66501	SMAN_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
10/11/2024 11:12	66505	SMAN_T2	2	2	0	0.35	0.4	0.05	0.3	0.42	1	1	0	900	900	0
10/11/2024 11:12	66502	SMAN_T2	11	19	8	0.25	0.36	0.11	0	0	0	0	0	0	0	0
10/11/2024 11:12	66504	SMAN_T2	2	2	0	0.6	0.85	0.25	0	0	0	0	0	0	0	0
10/11/2024 11:13	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/11/2024 11:13	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 11:13	44903	SCOT_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/11/2024 11:13	21206	ECAR_T2	1	1	0	6.5	6.4	-0.1	1.43	1.4	0	0	0	0	0	0
10/11/2024 11:15	66502	SMAN_T2	18	13	-5	0.36	0.39	0.03	0.27	0.29	0	0	0	0	0	0
10/11/2024 11:15	66501	SMAN_T2	2	2	0	1.1	0.95	-0.15	0	0	0	0	0	0	0	0
10/11/2024 11:15	66505	SMAN_T2	2	2	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/11/2024 11:15	66504	SMAN_T2	2	2	0	0.5	0.85	0.35	0	0	0	0	0	0	0	0
10/11/2024 11:23	64202	KINZ_T1	3	2	-1	0.43	0.45	0.02	0	0	0	0	0	0	0	0
10/11/2024 11:23	64204	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/11/2024 11:23	64203	KINZ_T1	0	0	0	0	0	0	0.47	0.49	2	2	0	900	900	0
10/11/2024 11:26	44301	BEAV_T2	2	4	2	0.25	0.33	0.08	0.22	0.28	2	2	0	1500	1500	0
10/11/2024 11:27	42701	AUGU_T1	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
10/11/2024 11:28	67502	WEWI_T2	53	125	72	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
10/11/2024 11:28	67503	WEWI_T2	2	2	0	4.55	4.85	0.3	-0.27	-0.25	0	0	0	0	0	0
10/11/2024 11:37	40601	PIGR_T1	236	239	3	0.67	0.7	0.03	0	0	0	0	0	0	0	0
10/11/2024 11:37	43304	WATS_T2	0	1	1	0	0.3	0.3	-0.51	-0.49	0	0	0	0	0	0
10/11/2024 11:37	40602	PIGR_T1	2	3	1	1	0.63	-0.37	0	0	0	0	0	0	0	0
10/11/2024 11:37	40603	PIGR_T1	4	5	1	0.55	0.58	0.03	0	0	0	0	0	0	0	0
10/11/2024 11:38	54603	SUMM_T2	0	0	0	0	0	0	-0.33	-0.24	1	1	0	900	900	0
10/11/2024 11:38	54601	SUMM_T2	1	10	9	0.5	0.49	-0.01	0	0	0	0	0	0	0	0
10/11/2024 11:40	43301	WATS_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
10/11/2024 11:40	43304	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/11/2024 11:42	43304	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/11/2024 11:43	61703	ELIZ_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
10/11/2024 11:43	44301	BEAV_T2	3	5	2	0.33	0.3	-0.03	0.28	0.23	2	2	0	1500	1500	0
10/11/2024 11:43	61701	ELIZ_T1	2	2	0	2.7	3.45	0.75	0.19	0.44	0	0	0	0	0	0
10/11/2024 11:43	43304	WATS_T2	0	1	1	0	0.3	0.3	-0.51	-0.49	0	0	0	0	0	0
10/11/2024 11:44	44301	BEAV_T2	3	5	2	0.33	0.3	-0.03	0.28	0.23	2	2	0	1500	1500	0
10/11/2024 11:45	55508	HERS_T2	2	9	7	1.6	0.59	-1.01	-2.55	-2.54	1	1	0	1200	1200	0
10/11/2024 11:46	55508	HERS_T2	2	9	7	1.6	0.59	-1.01	-2.55	-2.54	1	1	0	1200	1200	0
10/11/2024 11:46	63401	HONY_T1	0	0	0	0	0	0	0.09	0.03	1	1	0	600	600	0
10/11/2024 11:47	55507	HERS_T1	0	5	5	0	0.22	0.22	0	0	0	0	0	0	0	0
10/11/2024 11:47	55501	HERS_T1	29	52	23	0.1	0.62	0.52	0	0	0	0	0	0	0	0
10/11/2024 11:47	55503	HERS_T1	0	0	0	0	0	0	-1.53	-1.56	1	1	0	1200	1200	0
10/11/2024 11:48	55508	HERS_T2	2	9	7	1.6	0.59	-1.01	0	0	0	0	0	0	0	0
10/11/2024 11:48	55501	HERS_T1	29	52	23	0.1	0.62	0.52	0	0	0	0	0	0	0	0
10/11/2024 11:48	55507	HERS_T1	0	5	5	0	0.22	0.22	0.14	0.11	0	0	0	0	0	0
10/11/2024 11:49	63401	HONY_T1	0	0	0	0	0	0	0.09	0.03	1	1	0	600	600	0
10/11/2024 11:54	16102	BING_T2	0	5	5	0	0.58	0.58	0	0	0	0	0	0	0	0
10/11/2024 11:54	16103	BING_T2	1	1	0	0.5	0.7	0.2	-1.03	-1.01	2	2	0	1500	1500	0
10/11/2024 11:54	16101	BING_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/11/2024 11:55	46004	BERW_T2	0	2	2	0	0.2	0.2	-1.38	-1.24	0	0	0	0	0	0
10/11/2024 11:56	15001	BLMO_T1	2	4	2	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
10/11/2024 11:57	50201	HARR_T3	1	2	1	0.5	0.5	0	0	0	1	1	0	1200	1200	0
10/11/2024 11:57	50105	HARR_T3	6	6	0	6.05	5.93	-0.12	0	0	0	0	0	0	0	0
10/11/2024 11:57	50107	HARR_T3	1	1	0	8.2	7.2	-1	0	0	0	0	0	0	0	0
10/11/2024 11:57	50103	HARR_T3	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
10/11/2024 11:57	46001	BERW_T1	1	1	0	0.5	0.7	0.2	0.6	0.56	0	0	0	0	0	0
10/11/2024 11:57	46005	BERW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/11/2024 11:58	41301	FISH_T1	2	3	1	2.2	1.83	-0.37	0	-0.06	0	0	0	0	0	0
10/11/2024 11:58	44802	EDAN_T2	4	2	-2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/11/2024 11:58	44801	EDAN_T2	183	179	-4	0.96	0.95	-0.01	-1.7	-1.69	0	0	0	0	0	0
10/11/2024 11:58	41305	FISH_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
10/11/2024 11:59	41301	FISH_T1	2	3	1	2.2	1.83	-0.37	0	-0.06	0	0	0	0	0	0
10/11/2024 11:59	60201	ATGL_T2	72	86	14	0.21	0.3	0.09	-0.44	-0.44	0	0	0	0	0	0
10/11/2024 11:59	41305	FISH_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
10/11/2024 12:00	46004	BERW_T2	1	3	2	1.1	0.15	-0.95	-0.69	-0.62	0	0	0	0	0	0
10/11/2024 12:01	65601	QVIL_T2	3	3	0	0.47	0.5	0.03	0	0	0	0	0	0	0	0
10/11/2024 12:01	41305	FISH_T1	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
10/11/2024 12:01	65604	QVIL_T2	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
10/11/2024 12:01	64704	LITI_T1	0	1	1	0	0.1	0.1	0.7	0	0	1	1	0	600	600
10/11/2024 12:01	41301	FISH_T1	3	4	1	1.63	1.58	-0.05	0	-0.06	0	0	0	0	0	0
10/11/2024 12:02	65601	QVIL_T2	3	3	0	0.47	0.5	0.03	0	0	0	0	0	0	0	0
10/11/2024 12:02	65604	QVIL_T2	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
10/11/2024 12:02	41305	FISH_T1	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
10/11/2024 12:02	23201	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
10/11/2024 12:02	41301	FISH_T1	3	4	1	1.63	1.58	-0.05	0	0	0	0	0	0	0	0
10/11/2024 12:07	57403	SPAN_T1	3	4	1	0.6	0.55	-0.05	-0.06	-0.04	0	0	0	0	0	0
10/11/2024 12:07	57401	SPAN_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
10/11/2024 12:08	54601	SUMM_T2	10	9	-1	0.49	0.53	0.04	-1.78	-1.86	2	2	0	2100	2100	0
10/11/2024 12:08	24801	VALM_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/11/2024 12:08	24805	VALM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/11/2024 12:09	54601	SUMM_T2	10	9	-1	0.49	0.53	0.04	-1.78	-1.86	2	2	0	2100	2100	0
10/11/2024 12:10	15001	BLMO_T1	4	4	0	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
10/11/2024 12:11	40602	PIGR_T1	3	4	1	0.63	0.65	0.02	1.66	1.89	0	0	0	0	0	0
10/11/2024 12:11	40603	PIGR_T1	5	6	1	0.58	0.67	0.09	0	0	0	0	0	0	0	0
10/11/2024 12:11	42701	AUGU_T1	3	3	0	0.5	0.43	-0.07	0	0	2	2	0	1800	1800	0
10/11/2024 12:11	40601	PIGR_T1	233	259	26	0.63	0.68	0.05	0	0	0	0	0	0	0	0
10/11/2024 12:14	50103	HARR_T3	2	2	0	0.55	0.85	0.3	0	0	0	0	0	0	0	0
10/11/2024 12:14	50107	HARR_T3	1	1	0	7.2	7.1	-0.1	0	0	0	0	0	0	0	0
10/11/2024 12:14	50105	HARR_T3	6	6	0	5.97	5.98	0.01	0	0	0	0	0	0	0	0
10/11/2024 12:14	50201	HARR_T3	2	2	0	0.5	0.4	-0.1	0	0	1	1	0	1200	1200	0
10/11/2024 12:18	64701	LITI_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
10/11/2024 12:18	65503	MOJO_T2	5	52	47	0.44	0.35	-0.09	0	0	0	0	0	0	0	0
10/11/2024 12:18	65502	MOJO_T2	0	3	3	0	0.17	0.17	-0.14	-0.01	0	0	0	0	0	0
10/11/2024 12:18	64704	LITI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 12:19	65503	MOJO_T2	5	52	47	0.44	0.35	-0.09	0	0	0	0	0	0	0	0
10/11/2024 12:19	65502	MOJO_T2	0	3	3	0	0.17	0.17	-0.14	-0.01	0	0	0	0	0	0
10/11/2024 12:20	63601	LETO_T1	2	0	-2	0.4	0	-0.4	1	1.03	1	1	0	900	900	0
10/11/2024 12:20	63602	LETO_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/11/2024 12:23	65503	MOJO_T2	5	52	47	0.44	0.35	-0.09	-1.06	-1.06	1	1	0	900	900	0
10/11/2024 12:23	65502	MOJO_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/11/2024 12:24	65501	MOJO_T1	0	1	1	0	0.4	0.4	-1.08	-1.08	1	1	0	900	900	0
10/11/2024 12:31	64305	LINC_T1	1	1	0	0.6	0.7	0.1	-0.14	-0.19	0	0	0	0	0	0
10/11/2024 12:34	64802	MONE_T2	8	9	1	0.48	0.54	0.06	0.19	0.19	0	0	0	0	0	0
10/11/2024 12:34	64801	MONE_T2	3	3	0	0.27	0.43	0.16	0	0	0	0	0	0	0	0
10/11/2024 12:39	14801	TREI_T2	6	4	-2	0.28	0.43	0.15	0	0	0	0	0	0	0	0
10/11/2024 12:39	42701	AUGU_T1	2	2	0	0.5	0.55	0.05	0	0	2	2	0	1800	1800	0
10/11/2024 12:39	14802	TREI_T2	2	4	2	0.5	0.33	-0.17	0.42	0.34	0	0	0	0	0	0
10/11/2024 12:40	14801	TREI_T2	6	4	-2	0.28	0.43	0.15	0	0	0	0	0	0	0	0
10/11/2024 12:40	14802	TREI_T2	2	4	2	0.5	0.33	-0.17	1.26	1.02	0	0	0	0	0	0
10/11/2024 12:42	46004	BERW_T2	2	1	-1	0.1	0.2	0.1	-0.61	-0.65	0	0	0	0	0	0
10/11/2024 12:43	14802	TREI_T2	2	4	2	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
10/11/2024 12:43	46004	BERW_T2	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/11/2024 12:43	14801	TREI_T2	6	4	-2	0.28	0.43	0.15	0.3	0.32	0	0	0	0	0	0
10/11/2024 12:43	46002	BERW_T2	0	0	0	0	0	0	-0.92	-0.89	1	1	0	900	900	0
10/11/2024 12:50	58401	MORO_T1	0	0	0	0	0	0	-1.04	-0.98	0	0	0	0	0	0
10/11/2024 12:54	66504	SMAN_T2	2	4	2	0.95	0.58	-0.37	0	0	0	0	0	0	0	0
10/11/2024 12:54	66502	SMAN_T2	16	21	5	0.35	0.39	0.04	0	0	0	0	0	0	0	0
10/11/2024 12:54	66501	SMAN_T2	2	2	0	0.45	1.05	0.6	0	0	0	0	0	0	0	0
10/11/2024 12:54	58402	MORO_T1	0	0	0	0	0	0	0.43	0.39	1	1	0	900	900	0
10/11/2024 12:54	66503	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/11/2024 12:55	66504	SMAN_T2	2	4	2	0.95	0.58	-0.37	0	0	0	0	0	0	0	0
10/11/2024 12:55	66503	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/11/2024 12:55	66502	SMAN_T2	16	21	5	0.35	0.39	0.04	0.39	0.31	0	0	0	0	0	0
10/11/2024 12:55	66501	SMAN_T2	2	2	0	0.45	1.05	0.6	0	0	0	0	0	0	0	0
10/11/2024 12:56	66502	SMAN_T2	16	21	5	0.35	0.39	0.04	0.39	0.31	0	0	0	0	0	0
10/11/2024 12:56	66501	SMAN_T2	2	2	0	0.45	1.05	0.6	0	0	0	0	0	0	0	0
10/11/2024 12:56	20201	JERM_T1	0	0	0	0	0	0	-0.35	-0.09	2	2	0	2400	2400	0
10/11/2024 12:56	66504	SMAN_T2	2	4	2	0.95	0.58	-0.37	0	0	0	0	0	0	0	0
10/11/2024 12:56	66503	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/11/2024 12:58	55105	WERT_T1	2	2	0	0.45	0.55	0.1	-0.62	-0.61	1	1	0	900	900	0
10/11/2024 12:58	46004	BERW_T2	1	1	0	0.2	0.2	0	-0.65	-0.64	0	0	0	0	0	0
10/11/2024 13:00	55105	WERT_T1	2	2	0	0.3	0.65	0.35	-0.62	-0.61	1	1	0	900	900	0
10/11/2024 13:01	13503	MCMI_T2	1	2	1	0.6	0.55	-0.05	-0.01	-0.01	0	0	0	0	0	0
10/11/2024 13:03	55001	NEWP_T1	2	4	2	0.25	0.28	0.03	0	0	0	0	0	0	0	0
10/11/2024 13:03	42001	MNVL_T2	259	237	-22	0.96	0.61	-0.35	-0.37	-0.36	0	0	0	0	0	0
10/11/2024 13:03	55002	NEWP_T1	9	15	6	0.79	0.93	0.14	-0.21	-0.19	0	0	0	0	0	0
10/11/2024 13:03	42002	MNVL_T2	1	1	0	4	4.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 13:03	13503	MCMI_T2	1	2	1	0.6	0.55	-0.05	-0.01	-0.01	0	0	0	0	0	0
10/11/2024 13:05	42002	MNVL_T2	1	1	0	4	4.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 13:05	42001	MNVL_T2	259	237	-22	0.96	0.61	-0.35	-0.37	-0.36	0	0	0	0	0	0
10/11/2024 13:06	55002	NEWP_T1	9	15	6	0.79	0.93	0.14	0	0	0	0	0	0	0	0
10/11/2024 13:06	55001	NEWP_T1	2	4	2	0.25	0.28	0.03	-0.25	-0.25	0	0	0	0	0	0
10/11/2024 13:07	55001	NEWP_T1	2	4	2	0.25	0.28	0.03	-0.25	-0.3	0	0	0	0	0	0
10/11/2024 13:07	55002	NEWP_T1	9	15	6	0.79	0.93	0.14	-0.19	-0.21	0	0	0	0	0	0
10/11/2024 13:07	50107	HARR_T3	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
10/11/2024 13:07	50103	HARR_T3	3	3	0	0.57	0.6	0.03	0	0	0	0	0	0	0	0
10/11/2024 13:07	50202	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 13:07	50201	HARR_T3	2	3	1	0.6	0.47	-0.13	0	0	1	1	0	1200	1200	0
10/11/2024 13:07	50105	HARR_T3	6	6	0	6.05	6.05	0	0	0	0	0	0	0	0	0
10/11/2024 13:12	60801	BUCK_T1	6	20	14	0.3	0.25	-0.05	-0.86	-0.82	1	1	0	600	600	0
10/11/2024 13:12	22101	EDEL_T2	1	1	0	0.7	0.6	-0.1	0.39	0.37	1	1	0	1200	1200	0
10/11/2024 13:12	22103	EDEL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/11/2024 13:12	60201	ATGL_T2	47	0	-47	0.16	0	-0.16	-0.46	0.53	0	0	0	0	0	0
10/11/2024 13:22	55507	HERS_T1	4	4	0	0.13	0.1	-0.03	0.13	0.11	0	0	0	0	0	0
10/11/2024 13:22	55501	HERS_T1	52	52	0	0.46	0.48	0.02	0	0	0	0	0	0	0	0
10/11/2024 13:24	42701	AUGU_T1	2	1	-1	0.35	0.7	0.35	0	0	4	4	0	3600	3600	0
10/11/2024 13:26	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 13:26	66504	SMAN_T2	3	4	1	0.63	0.55	-0.08	0	0	0	0	0	0	0	0
10/11/2024 13:26	66502	SMAN_T2	17	14	-3	0.32	0.39	0.07	0	0	0	0	0	0	0	0
10/11/2024 13:26	66501	SMAN_T2	2	2	0	1.05	0.9	-0.15	0	0	0	0	0	0	0	0
10/11/2024 13:28	66504	SMAN_T2	3	4	1	0.63	0.55	-0.08	0	0	0	0	0	0	0	0
10/11/2024 13:28	66501	SMAN_T2	2	2	0	1.05	0.9	-0.15	0	0	0	0	0	0	0	0
10/11/2024 13:28	66502	SMAN_T2	17	14	-3	0.32	0.39	0.07	0	0	0	0	0	0	0	0
10/11/2024 13:28	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 13:28	24702	FLND_T2	4	3	-1	0.73	0.7	-0.03	0.22	0.3	1	1	0	1200	1200	0
10/11/2024 13:29	66504	SMAN_T2	3	4	1	0.63	0.55	-0.08	-0.4	-0.41	0	0	0	0	0	0
10/11/2024 13:29	66502	SMAN_T2	17	14	-3	0.32	0.39	0.07	0.32	0.34	0	0	0	0	0	0
10/11/2024 13:29	66501	SMAN_T2	2	2	0	1.05	0.9	-0.15	0	0	0	0	0	0	0	0
10/11/2024 13:29	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 13:30	66502	SMAN_T2	13	10	-3	0.41	0.41	0	0	0	0	0	0	0	0	0
10/11/2024 13:30	66501	SMAN_T2	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
10/11/2024 13:30	66504	SMAN_T2	4	2	-2	0.55	0.75	0.2	-0.79	-0.82	0	0	0	0	0	0
10/11/2024 13:30	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/11/2024 13:39	59302	MCAL_T1	3	6	3	0.23	0.27	0.04	0	0	0	0	0	0	0	0
10/11/2024 13:39	59301	MCAL_T1	6	8	2	0.67	0.74	0.07	-1.19	-1.19	0	0	0	0	0	0
10/11/2024 13:40	59301	MCAL_T1	6	8	2	0.67	0.74	0.07	-2.38	-2.38	0	0	0	0	0	0
10/11/2024 13:40	59302	MCAL_T1	3	6	3	0.23	0.27	0.04	0	0	0	0	0	0	0	0
10/11/2024 13:40	60305	TWVA_T2	0	0	0	0	0	0	1.11	1.15	0	0	0	0	0	0
10/11/2024 13:41	15204	SFAR_T2	1	1	0	0.4	0.4	0	-0.01	0	1	0	0	0	0	0
10/11/2024 13:41	15203	SFAR_T2	5	6	1	0.46	0.35	-0.11	0	0	0	0	0	0	0	0
10/11/2024 13:42	59302	MCAL_T1	3	6	3	0.23	0.27	0.04	0	0	0	0	0	0	0	0
10/11/2024 13:42	59301	MCAL_T1	6	8	2	0.67	0.74	0.07	0	0	0	0	0	0	0	0
10/11/2024 13:44	59302	MCAL_T1	3	6	3	0.23	0.27	0.04	0	0	0	0	0	0	0	0
10/11/2024 13:44	59301	MCAL_T1	6	8	2	0.67	0.74	0.07	-1.19	-1.19	0	0	0	0	0	0
10/11/2024 13:46	14204	EALL_T2	0	0	0	0	0	0	0.55	0.65	0	0	0	0	0	0
10/11/2024 13:48	64305	LINC_T1	1	1	0	0.2	0.4	0.2	-0.01	-0.06	0	0	0	0	0	0
10/11/2024 13:54	14402	SSLA_T1	3	3	0	0.83	0.97	0.14	0	0	0	0	0	0	0	0
10/11/2024 13:54	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
10/11/2024 13:54	15702	TANN_T2	1	1	0	0.5	0.3	-0.2	-0.38	-0.39	0	0	0	0	0	0
10/11/2024 13:54	14404	SSLA_T1	5	5	0	0.52	0.4	-0.12	-0.03	-0.02	0	0	0	0	0	0
10/11/2024 13:54	14403	SSLA_T1	3	4	1	0.53	0.68	0.15	0	0	0	0	0	0	0	0
10/11/2024 13:54	14401	SSLA_T1	3	4	1	0.5	0.65	0.15	0	0	0	0	0	0	0	0
10/11/2024 13:55	14402	SSLA_T1	3	3	0	0.83	0.97	0.14	0	0	0	0	0	0	0	0
10/11/2024 13:55	14401	SSLA_T1	3	4	1	0.5	0.65	0.15	-0.45	-0.49	0	0	0	0	0	0
10/11/2024 13:55	14403	SSLA_T1	3	4	1	0.53	0.68	0.15	0	0	0	0	0	0	0	0
10/11/2024 13:55	14404	SSLA_T1	5	5	0	0.52	0.4	-0.12	0	0	0	0	0	0	0	0
10/11/2024 13:56	14404	SSLA_T1	5	5	0	0.52	0.4	-0.12	0	0	0	0	0	0	0	0
10/11/2024 13:56	14402	SSLA_T1	3	3	0	0.83	0.97	0.14	0	0	0	0	0	0	0	0
10/11/2024 13:56	14401	SSLA_T1	3	4	1	0.5	0.65	0.15	0	0	0	0	0	0	0	0
10/11/2024 13:56	14403	SSLA_T1	3	4	1	0.53	0.68	0.15	0.51	0.57	0	0	0	0	0	0
10/11/2024 13:59	14203	EALL_T1	1	2	1	0.9	0.5	-0.4	1.18	1.12	0	0	0	0	0	0
10/11/2024 14:02	23203	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 14:02	23202	HIRU_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
10/11/2024 14:02	23201	HIRU_T2	6	7	1	0.22	0.24	0.02	0	0	0	0	0	0	0	0
10/11/2024 14:03	24702	FLND_T2	3	3	0	0.73	0.63	-0.1	0.28	0.24	1	1	0	1200	1200	0
10/11/2024 14:04	64305	LINC_T1	1	1	0	0.2	0.4	0.2	-0.06	-0.24	0	0	0	0	0	0
10/11/2024 14:06	55001	NEWP_T1	3	2	-1	0.2	0.25	0.05	-0.27	-0.25	0	0	0	0	0	0
10/11/2024 14:06	58401	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/11/2024 14:06	58402	MORO_T1	0	0	0	0	0	0	0.33	0.36	1	1	0	900	900	0
10/11/2024 14:06	55002	NEWP_T1	12	13	1	0.85	0.83	-0.02	-0.21	-0.24	0	0	0	0	0	0
10/11/2024 14:08	55001	NEWP_T1	3	2	-1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
10/11/2024 14:08	55002	NEWP_T1	12	13	1	0.85	0.83	-0.02	-0.24	-0.23	0	0	0	0	0	0
10/11/2024 14:13	10801	CHHI_T1	9	7	-2	0.69	0.47	-0.22	-1.43	-1.51	2	2	0	1500	1500	0
10/11/2024 14:14	10805	CHHI_T2	3	1	-2	2.43	8.4	5.97	-0.97	-1.01	1	1	0	1200	1200	0
10/11/2024 14:16	23203	HIRU_T2	0	1	1	0	0.1	0.1	0.16	0.13	0	0	0	0	0	0
10/11/2024 14:16	23201	HIRU_T2	7	6	-1	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
10/11/2024 14:18	23203	HIRU_T2	0	1	1	0	0.1	0.1	0.16	0.13	0	0	0	0	0	0
10/11/2024 14:18	23201	HIRU_T2	7	6	-1	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
10/11/2024 14:21	46102	MACI_T1	0	0	0	0	0	0	0.91	0.83	0	0	0	0	0	0
10/11/2024 14:24	55001	NEWP_T1	2	1	-1	0.25	0.4	0.15	-0.26	-0.26	0	0	0	0	0	0
10/11/2024 14:24	55002	NEWP_T1	13	13	0	0.75	0.94	0.19	0	0	0	0	0	0	0	0
10/11/2024 14:32	21501	CEAV_T2	0	0	0	0	0	0	0.42	0.33	1	1	0	1200	1200	0
10/11/2024 14:32	21502	CEAV_T2	1	0	-1	4.9	0	-4.9	0	0	0	0	0	0	0	0
10/11/2024 14:41	59302	MCAL_T1	2	5	3	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/11/2024 14:41	59301	MCAL_T1	8	15	7	0.59	0.59	0	-1.24	-1.21	0	0	0	0	0	0
10/11/2024 14:43	59302	MCAL_T1	2	5	3	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/11/2024 14:43	59301	MCAL_T1	8	15	7	0.59	0.59	0	-1.24	-1.21	0	0	0	0	0	0
10/11/2024 14:44	63801	HEMP_T1	1	2	1	0.7	0.75	0.05	0.2	0.51	0	0	0	0	0	0
10/11/2024 14:44	63803	HEMP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/11/2024 14:44	63804	HEMP_T1	1	1	0	6.5	5.9	-0.6	0	0	0	0	0	0	0	0
10/11/2024 14:48	47201	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 14:48	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 14:49	40601	PIGR_T1	237	262	25	0.6	0.74	0.14	0	0	0	0	0	0	0	0
10/11/2024 14:49	40602	PIGR_T1	2	1	-1	0.45	0.6	0.15	0	0	0	0	0	0	0	0
10/11/2024 14:49	40603	PIGR_T1	3	4	1	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
10/11/2024 14:54	50201	HARR_T3	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
10/11/2024 14:54	50105	HARR_T3	6	6	0	6.07	5.85	-0.22	0	0	0	0	0	0	0	0
10/11/2024 14:54	66504	SMAN_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
10/11/2024 14:54	66502	SMAN_T2	8	8	0	0.4	0.5	0.1	0.18	0.11	0	0	0	0	0	0
10/11/2024 14:54	50107	HARR_T3	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
10/11/2024 14:54	50103	HARR_T3	2	3	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/11/2024 14:54	66501	SMAN_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
10/11/2024 14:55	55001	NEWP_T1	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
10/11/2024 14:55	55002	NEWP_T1	13	13	0	0.94	1.14	0.2	-0.22	-0.2	0	0	0	0	0	0
10/11/2024 14:57	20403	ASHF_T2	1	2	1	0.5	0.45	-0.05	0.98	0.93	0	0	0	0	0	0
10/11/2024 15:01	44502	HAMI_T2	1	1	0	2.9	3.1	0.2	0	0	0	0	0	0	0	0
10/11/2024 15:01	44505	HAMI_T2	0	0	0	0	0	0	1.15	1.15	0	0	0	0	0	0
10/11/2024 15:02	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 15:02	44502	HAMI_T2	1	1	0	2.9	3.1	0.2	0	0	0	0	0	0	0	0
10/11/2024 15:05	54701	NEBL_T1	9	8	-1	0.79	0.6	-0.19	0	0	1	1	0	600	600	0
10/11/2024 15:13	40801	EXCH_T2	0	0	0	0	0	0	-0.54	-0.53	1	1	0	1200	1200	0
10/11/2024 15:13	40802	EXCH_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/11/2024 15:14	60101	COCA_T1	1	1	0	0.3	0.5	0.2	0.33	0.26	0	0	0	0	0	0
10/11/2024 15:15	51603	DUKE_T1	3	2	-1	0.43	0.45	0.02	83.96	83.96	0	0	0	0	0	0
10/11/2024 15:15	55508	HERS_T2	5	3	-2	0.8	1.1	0.3	-2.52	-2.53	1	1	0	1200	1200	0
10/11/2024 15:17	46802	HEPB_T1	6	5	-1	0.73	0.76	0.03	-0.33	-0.29	0	0	0	0	0	0
10/11/2024 15:18	40802	EXCH_T2	1	1	0	0.3	0.2	-0.1	-0.11	-0.11	0	0	0	0	0	0
10/11/2024 15:23	44701	MUNC_T2	53	108	55	0.19	0.17	-0.02	0	0	0	0	0	0	0	0
10/11/2024 15:23	44703	MUNC_T2	2	2	0	1.4	1.4	0	0	0	0	0	0	0	0	0
10/11/2024 15:23	44702	MUNC_T2	104	122	18	0.37	0.4	0.03	0	0	0	0	0	0	0	0
10/11/2024 15:25	60101	COCA_T1	1	1	0	0.4	0.5	0.1	0.26	0.34	0	0	0	0	0	0
10/11/2024 15:27	42701	AUGU_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/11/2024 15:28	67201	TEHI_T1	4	4	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
10/11/2024 15:28	60101	COCA_T1	1	1	0	0.4	0.5	0.1	0.26	0.34	0	0	0	0	0	0
10/11/2024 15:28	51603	DUKE_T1	3	2	-1	0.43	0.45	0.02	83.96	83.96	0	0	0	0	0	0
10/11/2024 15:28	67203	TEHI_T1	0	0	0	0	0	0	2.22	2.22	2	2	0	1500	1500	0
10/11/2024 15:29	51603	DUKE_T1	3	2	-1	0.43	0.45	0.02	83.96	83.96	0	0	0	0	0	0
10/11/2024 15:29	42701	AUGU_T1	1	1	0	0.2	0.3	0.1	0	0	2	2	0	1800	1800	0
10/11/2024 15:29	14204	EALL_T2	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
10/11/2024 15:29	60101	COCA_T1	1	1	0	0.4	0.5	0.1	0.26	0.34	0	0	0	0	0	0
10/11/2024 15:29	51604	DUKE_T2	6	5	-1	0.47	0.3	-0.17	-0.69	-0.71	0	0	0	0	0	0
10/11/2024 15:29	51602	DUKE_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/11/2024 15:30	60101	COCA_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/11/2024 15:30	51602	DUKE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/11/2024 15:30	51604	DUKE_T2	5	1	-4	0.3	0.3	0	-0.69	-0.71	0	0	0	0	0	0
10/11/2024 15:30	42701	AUGU_T1	1	1	0	0.3	0.5	0.2	0	0	2	2	0	1800	1800	0
10/11/2024 15:30	60102	COCA_T1	0	0	0	0	0	0	-0.41	-0.21	2	2	0	1200	1200	0
10/11/2024 15:31	60101	COCA_T1	1	1	0	0.5	0.4	-0.1	0.26	0.34	0	0	0	0	0	0
10/11/2024 15:31	45801	HEGI_T1	0	0	0	0	0	0	-0.28	-0.23	1	1	0	900	900	0
10/11/2024 15:33	51603	DUKE_T1	2	2	0	0.45	0.1	-0.35	167.92	167.92	0	0	0	0	0	0
10/11/2024 15:33	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 15:33	15001	BLMO_T1	9	7	-2	0.18	0.14	-0.04	0	0	0	0	0	0	0	0
10/11/2024 15:33	51602	DUKE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/11/2024 15:33	51604	DUKE_T2	5	1	-4	0.3	0.3	0	-1.38	-1.42	0	0	0	0	0	0
10/11/2024 15:46	46602	LACR_T1	15	19	4	0.21	0.23	0.02	-1.02	-1.03	0	0	0	0	0	0
10/11/2024 15:50	46101	MACI_T2	0	0	0	0	0	0	-0.1	-0.11	1	1	0	1200	1200	0
10/11/2024 15:57	24202	PROV_T4	0	1	1	0	0	0	0	0	1	1	0	1200	1200	0
10/11/2024 15:58	40802	EXCH_T2	1	1	0	0.2	0.3	0.1	-0.18	-0.29	0	0	0	0	0	0
10/11/2024 15:58	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 16:00	50623	CCTY_T2	5	5	0	5.54	5.94	0.4	0	0	0	0	0	0	0	0
10/11/2024 16:00	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 16:00	50625	CCTY_T2	5	4	-1	2.64	3.23	0.59	0	0	0	0	0	0	0	0
10/11/2024 16:00	50624	CCTY_T2	2	2	0	6.1	6.15	0.05	0	0	0	0	0	0	0	0
10/11/2024 16:01	40802	EXCH_T2	1	1	0	0.3	0.2	-0.1	-0.18	-0.29	0	0	0	0	0	0
10/11/2024 16:01	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 16:01	64401	LAND_T1	0	0	0	0	0	0	-1.79	-1.81	2	2	0	1200	1200	0
10/11/2024 16:02	64401	LAND_T1	0	0	0	0	0	0	-1.79	-1.81	2	2	0	1200	1200	0
10/11/2024 16:02	64403	LAND_T1	0	0	0	0	0	0	-1.49	-1.49	1	1	0	900	900	0
10/11/2024 16:05	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 16:17	66502	SMAN_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
10/11/2024 16:17	66504	SMAN_T2	0	0	0	0	0	0	-0.44	-0.33	0	0	0	0	0	0
10/11/2024 16:19	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 16:19	66502	SMAN_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
10/11/2024 16:21	46101	MACI_T2	0	0	0	0	0	0	-0.11	-0.08	1	1	0	1200	1200	0
10/11/2024 16:23	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 16:26	43506	WWIL_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
10/11/2024 16:26	43505	WWIL_T1	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0	0
10/11/2024 16:26	43504	WWIL_T1	12	17	5	0.68	0.61	-0.07	0.58	0.59	0	0	0	0	0	0
10/11/2024 16:29	24102	EHAZ_T1	9	2	-7	0.32	0	-0.32	0.75	0.72	0	0	0	0	0	0
10/11/2024 16:29	24101	EHAZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/11/2024 16:29	24105	EHAZ_T1	4	4	0	6.1	6.15	0.05	0	0	0	0	0	0	0	0
10/11/2024 16:34	23201	HIRU_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
10/11/2024 16:41	67402	WAKE_T2	0	0	0	0	0	0	-0.42	-0.4	1	1	0	600	600	0
10/11/2024 16:43	62605	ENGL_T1	1	0	-1	5.1	0	-5.1	-0.75	-0.72	0	0	0	0	0	0
10/11/2024 16:43	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 16:44	62607	ENGL_T1	0	0	0	0	0	0	-0.81	-0.84	0	0	0	0	0	0
10/11/2024 16:44	62605	ENGL_T1	1	0	-1	5.1	0	-5.1	0	0	0	0	0	0	0	0
10/11/2024 16:45	62601	ENGL_T1	0	0	0	0	0	0	-0.07	-0.16	0	0	0	0	0	0
10/11/2024 16:45	62605	ENGL_T1	0	0	0	0	0	0	-1.5	-1.44	0	0	0	0	0	0
10/11/2024 16:46	62102	ELAN_T1	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
10/11/2024 16:46	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 16:46	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 16:47	40701	FFLD_T1	73	74	1	0.54	0.6	0.06	0	0	0	0	0	0	0	0
10/11/2024 16:47	40702	FFLD_T1	66	106	40	0.18	0.25	0.07	-0.49	-0.51	1	1	0	1200	1200	0
10/11/2024 16:47	40703	FFLD_T1	4	4	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
10/11/2024 16:48	64203	KINZ_T1	0	25	25	0	0.13	0.13	0	0	0	0	0	0	0	0
10/11/2024 16:48	64202	KINZ_T1	2	12	10	0.15	0.24	0.09	0	0	0	0	0	0	0	0
10/11/2024 16:48	64204	KINZ_T1	2	24	22	0.7	0.26	-0.44	0	0	0	0	0	0	0	0
10/11/2024 16:48	64201	KINZ_T1	3	7	4	0.13	0.4	0.27	-0.71	-0.56	3	3	0	1500	1500	0
10/11/2024 16:49	64201	KINZ_T1	3	7	4	0.13	0.4	0.27	0	0	0	0	0	0	0	0
10/11/2024 16:49	64204	KINZ_T1	2	24	22	0.7	0.26	-0.44	0	0	0	0	0	0	0	0
10/11/2024 16:49	64202	KINZ_T1	2	12	10	0.15	0.24	0.09	0	0	0	0	0	0	0	0
10/11/2024 16:49	64203	KINZ_T1	0	25	25	0	0.13	0.13	0	0	0	0	0	0	0	0
10/11/2024 16:50	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 16:52	65001	NEFF_T2	0	0	0	0	0	0	0.31	0.27	0	0	0	0	0	0
10/11/2024 16:52	65003	NEFF_T2	2	4	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/11/2024 16:53	59402	RFLD_T2	0	0	0	0	0	0	-0.89	-0.88	1	1	0	450	450	0
10/11/2024 16:54	59402	RFLD_T2	0	0	0	0	0	0	-0.89	-0.88	1	1	0	450	450	0
10/11/2024 16:56	46206	DANV_T2	0	0	0	0	0	0	1.25	1.3	2	2	0	2100	2100	0
10/11/2024 16:58	67402	WAKE_T2	0	0	0	0	0	0	-0.4	-0.4	1	1	0	600	600	0
10/11/2024 16:58	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 16:58	62105	ELAN_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
10/11/2024 16:58	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
10/11/2024 16:58	54503	ENOL_T2	0	0	0	0	0	0	-0.43	-0.4	1	1	0	600	600	0
10/11/2024 16:58	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 16:59	44502	HAMI_T2	1	1	0	3.4	3.6	0.2	0	0	0	0	0	0	0	0
10/11/2024 16:59	44503	HAMI_T2	0	0	0	0	0	0	-1.27	-1.26	1	1	0	1200	1200	0
10/11/2024 17:00	62105	ELAN_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
10/11/2024 17:00	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 17:00	62101	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/11/2024 17:00	11904	ETEX_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
10/11/2024 17:01	46206	DANV_T2	0	0	0	0	0	0	1.25	1.3	2	2	0	2100	2100	0
10/11/2024 17:02	62101	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/11/2024 17:02	62106	ELAN_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
10/11/2024 17:02	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 17:03	65003	NEFF_T2	3	4	1	0.2	0.15	-0.05	-1.91	-2.01	2	2	0	1800	1800	0
10/11/2024 17:07	64701	LITI_T1	0	0	0	0	0	0	0.09	0.13	0	0	0	0	0	0
10/11/2024 17:13	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 17:14	50107	HARR_T3	1	1	0	6.9	7.9	1	0	0	0	0	0	0	0	0
10/11/2024 17:14	50201	HARR_T3	1	1	0	1.1	0.6	-0.5	0	0	1	1	0	1200	1200	0
10/11/2024 17:14	50103	HARR_T3	2	2	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
10/11/2024 17:14	50105	HARR_T3	6	6	0	5.95	6.15	0.2	0	0	0	0	0	0	0	0
10/11/2024 17:16	40902	JESH_T1	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
10/11/2024 17:16	40901	JESH_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/11/2024 17:19	40901	JESH_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/11/2024 17:19	40902	JESH_T1	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
10/11/2024 17:21	59402	RFLD_T2	0	0	0	0	0	0	-0.88	-0.87	1	1	0	450	450	0
10/11/2024 17:23	24801	VALM_T1	0	0	0	0	0	0	-0.23	-0.28	0	0	0	0	0	0
10/11/2024 17:28	24701	FLND_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
10/11/2024 17:29	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 17:29	41502	FAIR_T2	0	0	0	0	0	0	-1.7	-1.7	1	1	0	900	900	0
10/11/2024 17:29	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/11/2024 17:34	41205	KENM_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
10/11/2024 17:34	41202	KENM_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
10/11/2024 17:34	41201	KENM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 17:48	45802	HEGI_T2	20	49	29	0.32	1.37	1.05	0.8	0.34	0	0	0	0	0	0
10/11/2024 17:49	45802	HEGI_T2	20	49	29	0.32	1.37	1.05	0.8	0.34	0	0	0	0	0	0
10/11/2024 17:54	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.32	0	0	0	0	0	0
10/11/2024 17:55	45303	WBER_T2	8	8	0	0.51	0.6	0.09	0	0	0	0	0	0	0	0
10/11/2024 17:55	45302	WBER_T2	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
10/11/2024 17:58	24102	EHAZ_T1	15	1	-14	0.19	0	-0.19	0.74	0.76	0	0	0	0	0	0
10/11/2024 17:58	24105	EHAZ_T1	4	4	0	6.28	6.05	-0.23	0	0	0	0	0	0	0	0
10/11/2024 18:00	24702	FLND_T2	0	0	0	0	0	0	0.04	-0.12	1	1	0	1200	1200	0
10/11/2024 18:02	61801	EELI_T2	0	1	1	0	0.2	0.2	-0.79	-0.83	1	1	0	600	600	0
10/11/2024 18:15	45801	HEGI_T1	0	0	0	0	0	0	-0.37	-0.4	1	1	0	900	900	0
10/11/2024 18:37	64204	KINZ_T1	39	26	-13	0.34	0.24	-0.1	0	0	0	0	0	0	0	0
10/11/2024 18:37	64201	KINZ_T1	8	6	-2	0.4	0.4	0	0	0	0	0	0	0	0	0
10/11/2024 18:37	64202	KINZ_T1	21	16	-5	0.25	0.18	-0.07	0.49	0.48	0	0	0	0	0	0
10/11/2024 18:37	64203	KINZ_T1	39	29	-10	0.24	0.13	-0.11	0	0	0	0	0	0	0	0
10/11/2024 19:17	67402	WAKE_T2	0	0	0	0	0	0	-0.48	-0.49	1	1	0	600	600	0
10/11/2024 19:44	46802	HEPB_T1	2	2	0	0.95	0.95	0	-0.31	-0.34	0	0	0	0	0	0
10/11/2024 20:22	48901	FOSP_T2	0	0	0	0	0	0	-0.39	-0.41	1	1	0	600	600	0
10/11/2024 20:25	59402	RFLD_T2	0	0	0	0	0	0	-0.91	-0.91	1	1	0	450	450	0
10/11/2024 20:25	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
10/11/2024 20:25	15702	TANN_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
10/11/2024 20:25	23201	HIRU_T2	0	2	2	0	0.1	0.1	0.16	0.17	0	0	0	0	0	0
10/11/2024 20:28	44802	EDAN_T2	5	273	268	0.12	0.16	0.04	-0.93	-0.94	0	0	0	0	0	0
10/11/2024 20:28	23201	HIRU_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:28	23202	HIRU_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
10/11/2024 20:28	44801	EDAN_T2	299	350	51	0.74	0.85	0.11	0	0	0	0	0	0	0	0
10/11/2024 20:28	22101	EDEL_T2	0	0	0	0	0	0	0.41	0.43	1	1	0	1200	1200	0
10/11/2024 20:29	60305	TWVA_T2	0	0	0	0	0	0	-0.34	-0.5	2	2	0	2400	2400	0
10/11/2024 20:29	40802	EXCH_T2	2	15	13	0.1	0.12	0.02	-0.33	-0.35	0	0	0	0	0	0
10/11/2024 20:29	14402	SSLA_T1	45	34	-11	0.14	0.15	0.01	0	0	0	0	0	0	0	0
10/11/2024 20:29	23201	HIRU_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:29	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
10/11/2024 20:29	14404	SSLA_T1	33	21	-12	0.13	0.11	-0.02	0	0	0	0	0	0	0	0
10/11/2024 20:29	14403	SSLA_T1	6	5	-1	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/11/2024 20:29	40801	EXCH_T2	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
10/11/2024 20:29	67605	WARW_T1	34	37	3	0.62	0.68	0.06	0	0	0	0	0	0	0	0
10/11/2024 20:29	67502	WEWI_T2	0	18	18	0	0.1	0.1	-0.57	-0.57	0	0	0	0	0	0
10/11/2024 20:29	67503	WEWI_T2	1	1	0	8.1	8.3	0.2	0	0	0	0	0	0	0	0
10/11/2024 20:29	67603	WARW_T1	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
10/11/2024 20:29	62607	ENGL_T1	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
10/11/2024 20:29	14401	SSLA_T1	7	6	-1	0.19	0.17	-0.02	-0.59	-0.6	0	0	0	0	0	0
10/11/2024 20:29	62605	ENGL_T1	0	0	0	0	0	0	-0.84	-0.82	0	0	0	0	0	0
10/11/2024 20:29	25402	LAHA_T2	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
10/11/2024 20:29	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:30	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:30	50202	HARR_T3	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
10/11/2024 20:30	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:30	65604	QVIL_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
10/11/2024 20:30	46004	BERW_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
10/11/2024 20:30	15702	TANN_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
10/11/2024 20:30	67502	WEWI_T2	0	113	113	0	0.2	0.2	0	0	0	0	0	0	0	0
10/11/2024 20:30	50103	HARR_T3	2	2	0	1.1	0.25	-0.85	0	0	0	0	0	0	0	0
10/11/2024 20:30	50107	HARR_T3	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
10/11/2024 20:30	50201	HARR_T3	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
10/11/2024 20:30	50105	HARR_T3	6	6	0	5.65	5.88	0.23	0	0	0	0	0	0	0	0
10/11/2024 20:30	46002	BERW_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
10/11/2024 20:30	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
10/11/2024 20:30	14802	TREI_T2	6	0	-6	0.17	0	-0.17	0.33	0.3	0	0	0	0	0	0
10/11/2024 20:30	45902	AUBU_T1	0	1	1	0	0	0	0	-0.01	1	1	0	600	600	0
10/11/2024 20:30	67503	WEWI_T2	1	1	0	8.1	8.4	0.3	-0.3	-0.3	0	0	0	0	0	0
10/11/2024 20:30	40601	PIGR_T1	369	394	25	0.83	0.91	0.08	0	0	0	0	0	0	0	0
10/11/2024 20:30	50102	HARR_T3	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/11/2024 20:30	16101	BING_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
10/11/2024 20:30	14801	TREI_T2	8	2	-6	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/11/2024 20:31	67502	WEWI_T2	0	113	113	0	0.2	0.2	-0.57	-0.57	0	0	0	0	0	0
10/11/2024 20:31	14801	TREI_T2	8	2	-6	0.2	0.15	-0.05	0.35	0.34	0	0	0	0	0	0
10/11/2024 20:31	23201	HIRU_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:31	67503	WEWI_T2	1	1	0	8.1	8.4	0.3	0	0	0	0	0	0	0	0
10/11/2024 20:31	14203	EALL_T1	0	0	0	0	0	0	0.84	0.79	0	0	0	0	0	0
10/11/2024 20:31	63501	HEID_TBK1-2	23	35	12	0.22	0.33	0.11	0.33	0.36	0	0	0	0	0	0
10/11/2024 20:31	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
10/11/2024 20:31	42002	MNVL_T2	1	2	1	3	1.3	-1.7	0	0	0	0	0	0	0	0
10/11/2024 20:31	14802	TREI_T2	6	0	-6	0.17	0	-0.17	0	0	0	0	0	0	0	0
10/11/2024 20:31	64401	LAND_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
10/11/2024 20:31	45902	AUBU_T1	0	1	1	0	0	0	0	-0.01	1	1	0	600	600	0
10/11/2024 20:31	42001	MNVL_T2	51	90	39	0.33	0.45	0.12	0.25	0.27	0	0	0	0	0	0
10/11/2024 20:32	54506	ENOL_T2	0	0	0	0	0	0	0.69	0.53	1	1	0	600	600	0
10/11/2024 20:32	44301	BEAV_T2	0	0	0	0	0	0	0.17	0.18	1	1	0	600	600	0
10/11/2024 20:32	54501	ENOL_T2	4	3	-1	0.35	0.17	-0.18	0	0	0	0	0	0	0	0
10/11/2024 20:32	63501	HEID_TBK1-2	23	35	12	0.22	0.33	0.11	0.33	0.36	0	0	0	0	0	0
10/11/2024 20:32	54505	ENOL_T2	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
10/11/2024 20:32	15001	BLMO_T1	4	9	5	0.18	0.19	0.01	0	0	0	0	0	0	0	0
10/11/2024 20:32	62105	ELAN_T1	32	119	87	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/11/2024 20:32	42701	AUGU_T1	1	0	-1	1	0	-1	0	0	2	1	-1	1800	600	-1200
10/11/2024 20:32	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
10/11/2024 20:32	14705	TREX_T1	2	0	-2	1.4	0	-1.4	-0.4	-0.4	0	0	0	0	0	0
10/11/2024 20:32	45303	WBER_T2	8	8	0	0.73	0.91	0.18	0	0	0	0	0	0	0	0
10/11/2024 20:32	60101	COCA_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
10/11/2024 20:32	45302	WBER_T2	0	0	0	0	0	0	0.63	0.69	0	0	0	0	0	0
10/11/2024 20:32	14706	TREX_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
10/11/2024 20:32	62106	ELAN_T1	1	6	5	0.1	0.1	0	-0.04	-0.03	0	0	0	0	0	0
10/11/2024 20:32	62101	ELAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:32	20201	JERM_T1	0	0	0	0	0	0	-1.05	-1.09	2	2	0	2400	2400	0
10/11/2024 20:32	14802	TREI_T2	6	0	-6	0.17	0	-0.17	0.66	0.6	0	0	0	0	0	0
10/11/2024 20:32	14801	TREI_T2	8	2	-6	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/11/2024 20:32	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:32	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:33	44801	EDAN_T2	303	349	46	0.74	0.88	0.14	0	0	0	0	0	0	0	0
10/11/2024 20:33	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:33	67605	WARW_T1	34	37	3	0.61	0.68	0.07	-1.2	-1.19	0	0	0	0	0	0
10/11/2024 20:33	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.13	0	0	0	0	0	0
10/11/2024 20:33	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/11/2024 20:33	41205	KENM_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
10/11/2024 20:33	14404	SSLA_T1	21	0	-21	0.11	0	-0.11	-0.14	-0.17	0	0	0	0	0	0
10/11/2024 20:33	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:33	14401	SSLA_T1	6	0	-6	0.17	0	-0.17	0	0	0	0	0	0	0	0
10/11/2024 20:33	14402	SSLA_T1	34	2	-32	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
10/11/2024 20:33	65003	NEFF_T2	4	4	0	0.13	0.23	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:33	15203	SFAR_T2	26	38	12	0.12	0.12	0	-1.33	-1.33	0	0	0	0	0	0
10/11/2024 20:33	41301	FISH_T1	2	2	0	0.45	0.5	0.05	-0.1	-0.08	0	0	0	0	0	0
10/11/2024 20:33	65001	NEFF_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
10/11/2024 20:33	41201	KENM_T2	1	18	17	0.1	0.17	0.07	0	0	0	0	0	0	0	0
10/11/2024 20:33	44802	EDAN_T2	47	281	234	0.1	0.16	0.06	-0.93	-0.94	0	0	0	0	0	0
10/11/2024 20:33	66505	SMAN_T2	3	3	0	0.9	1.17	0.27	0	0	0	0	0	0	0	0
10/11/2024 20:33	14403	SSLA_T1	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
10/11/2024 20:33	41202	KENM_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:33	51604	DUKE_T2	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
10/11/2024 20:33	54601	SUMM_T2	13	12	-1	0.91	0.76	-0.15	-1.99	-2	2	2	0	2100	2100	0
10/11/2024 20:33	60101	COCA_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
10/11/2024 20:33	54603	SUMM_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/11/2024 20:34	64602	LEOL_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
10/11/2024 20:34	64202	KINZ_T1	1	21	20	0.1	0.22	0.12	0	0	0	0	0	0	0	0
10/11/2024 20:34	64701	LITI_T1	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0
10/11/2024 20:34	42001	MNVL_T2	51	90	39	0.33	0.45	0.12	0.25	0.27	0	0	0	0	0	0
10/11/2024 20:34	64203	KINZ_T1	0	14	14	0	0.11	0.11	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/11/2024 20:34	55001	NEWP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:34	50202	HARR_T3	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
10/11/2024 20:34	20403	ASHF_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
10/11/2024 20:34	48902	FOSP_T2	0	0	0	0	0	0	-0.08	-0.05	0	0	0	0	0	0
10/11/2024 20:34	50103	HARR_T3	2	2	0	1.1	0.25	-0.85	0	0	0	0	0	0	0	0
10/11/2024 20:34	65601	QVIL_T2	0	0	0	0	0	0	-1.33	-1.31	1	1	0	900	900	0
10/11/2024 20:34	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:34	50102	HARR_T3	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/11/2024 20:34	14801	TREI_T2	8	2	-6	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/11/2024 20:34	44503	HAMI_T2	0	0	0	0	0	0	-1.32	-1.3	1	1	0	1200	1200	0
10/11/2024 20:34	50105	HARR_T3	6	6	0	5.65	5.88	0.23	0	0	0	0	0	0	0	0
10/11/2024 20:34	64204	KINZ_T1	14	40	26	0.19	0.32	0.13	0	0	0	0	0	0	0	0
10/11/2024 20:34	67402	WAKE_T2	0	0	0	0	0	0	-0.51	-0.51	1	1	0	600	600	0
10/11/2024 20:34	55002	NEWP_T1	4	6	2	0.95	0.88	-0.07	-0.28	-0.29	0	0	0	0	0	0
10/11/2024 20:34	46602	LACR_T1	0	0	0	0	0	0	-1.02	-1.06	0	0	0	0	0	0
10/11/2024 20:34	66504	SMAN_T2	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
10/11/2024 20:34	14802	TREI_T2	6	0	-6	0.17	0	-0.17	0.33	0.3	0	0	0	0	0	0
10/11/2024 20:34	20401	ASHF_T2	38	21	-17	0.23	0.23	0	0	0	0	0	0	0	0	0
10/11/2024 20:34	24702	FLND_T2	0	0	0	0	0	0	-0.22	0.96	1	0	-1	1200	0	-1200
10/11/2024 20:34	64201	KINZ_T1	7	10	3	0.2	0.37	0.17	-0.86	-0.8	3	3	0	1500	1500	0
10/11/2024 20:34	50201	HARR_T3	1	1	0	0.6	0.3	-0.3	0	0	1	1	0	1200	1200	0
10/11/2024 20:34	24202	PROV_T4	0	1	1	0	0	0	0	0	1	1	0	1200	1200	0
10/11/2024 20:34	50107	HARR_T3	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
10/11/2024 20:34	51603	DUKE_T1	2	2	0	0.15	0.4	0.25	83.96	83.96	0	0	0	0	0	0
10/11/2024 20:34	66505	SMAN_T2	3	3	0	0.9	1.17	0.27	-0.23	-0.15	1	1	0	900	900	0
10/11/2024 20:34	64401	LAND_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
10/11/2024 20:34	42002	MNVL_T2	1	2	1	3	1.3	-1.7	0	0	0	0	0	0	0	0
10/11/2024 20:34	44502	HAMI_T2	1	1	0	3.5	3.8	0.3	0	0	0	0	0	0	0	0
10/11/2024 20:34	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:34	60101	COCA_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
10/11/2024 20:35	61701	ELIZ_T1	1	1	0	5.5	5.6	0.1	0.2	0.3	0	0	0	0	0	0
10/11/2024 20:35	11904	ETEX_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
10/11/2024 20:35	60801	BUCK_T1	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
10/11/2024 20:35	59301	MCAL_T1	2	54	52	1.2	0.23	-0.97	-2.62	-2.66	0	0	0	0	0	0
10/11/2024 20:35	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:35	44903	SCOT_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
10/11/2024 20:35	14802	TREI_T2	6	0	-6	0.17	0	-0.17	0	0	0	0	0	0	0	0
10/11/2024 20:35	67502	WEWI_T2	0	113	113	0	0.2	0.2	-0.57	-0.57	0	0	0	0	0	0
10/11/2024 20:35	40702	FFLD_T1	172	207	35	0.38	0.6	0.22	0	0	0	0	0	0	0	0
10/11/2024 20:35	40602	PIGR_T1	0	0	0	0	0	0	1.18	1.18	0	0	0	0	0	0
10/11/2024 20:35	63501	HEID_TBK1-2	23	35	12	0.22	0.33	0.11	0.33	0.36	0	0	0	0	0	0
10/11/2024 20:35	67503	WEWI_T2	1	1	0	8.1	8.4	0.3	0	0	0	0	0	0	0	0
10/11/2024 20:35	66504	SMAN_T2	0	0	0	0	0	0	-2.52	-2.65	0	0	0	0	0	0
10/11/2024 20:35	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
10/11/2024 20:35	66505	SMAN_T2	3	3	0	0.9	1.17	0.27	-0.23	-0.15	1	1	0	900	900	0
10/11/2024 20:35	59302	MCAL_T1	1	2	1	1.2	0.75	-0.45	0	0	0	0	0	0	0	0
10/11/2024 20:35	50202	HARR_T3	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
10/11/2024 20:35	51603	DUKE_T1	2	2	0	0.15	0.4	0.25	83.96	83.96	0	0	0	0	0	0
10/11/2024 20:35	14801	TREI_T2	8	2	-6	0.2	0.15	-0.05	0.35	0.34	0	0	0	0	0	0
10/11/2024 20:35	40601	PIGR_T1	369	394	25	0.83	0.91	0.08	0	0	0	0	0	0	0	0
10/11/2024 20:35	60101	COCA_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
10/11/2024 20:35	15702	TANN_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
10/11/2024 20:35	44801	EDAN_T2	303	349	46	0.74	0.88	0.14	0	0	0	0	0	0	0	0
10/11/2024 20:35	60803	BUCK_T1	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/11/2024 20:35	50102	HARR_T3	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/11/2024 20:35	50105	HARR_T3	6	6	0	5.65	5.88	0.23	0	0	0	0	0	0	0	0
10/11/2024 20:35	64704	LITI_T1	0	0	0	0	0	0	0.72	0.62	0	0	0	0	0	0
10/11/2024 20:35	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:35	44802	EDAN_T2	47	281	234	0.1	0.16	0.06	-0.93	-0.94	0	0	0	0	0	0
10/11/2024 20:35	21206	ECAR_T2	1	1	0	7.1	7.2	0.1	1.2	1.14	0	0	0	0	0	0
10/11/2024 20:35	14204	EALL_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
10/11/2024 20:35	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.25	0	0	0	0	0	0
10/11/2024 20:35	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:35	57702	PAXT_T1	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
10/11/2024 20:35	50103	HARR_T3	2	2	0	1.1	0.25	-0.85	0	0	0	0	0	0	0	0
10/11/2024 20:35	40701	FFLD_T1	72	83	11	0.52	0.77	0.25	0	0	0	0	0	0	0	0
10/11/2024 20:35	50201	HARR_T3	1	1	0	0.6	0.3	-0.3	0	0	1	1	0	1200	1200	0
10/11/2024 20:35	50107	HARR_T3	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
10/11/2024 20:35	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:35	42701	AUGU_T1	1	0	-1	1	0	-1	0	0	4	2	-2	3600	1200	-2400
10/11/2024 20:35	40703	FFLD_T1	4	4	0	0.6	0.85	0.25	0	0	0	0	0	0	0	0
10/11/2024 20:36	55508	HERS_T2	2	2	0	1.6	1.8	0.2	-2.62	-2.61	1	1	0	1200	1200	0
10/11/2024 20:36	66502	SMAN_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
10/11/2024 20:36	64701	LITI_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
10/11/2024 20:36	10801	CHHI_T1	0	0	0	0	0	0	-1.69	-1.7	2	2	0	1500	1500	0
10/11/2024 20:36	57201	ROSS_T1	135	235	100	0.26	0.37	0.11	-1.15	-1.16	0	0	0	0	0	0
10/11/2024 20:36	63401	HONY_T1	0	0	0	0	0	0	-0.1	-0.13	1	1	0	600	600	0
10/11/2024 20:36	67203	TEHI_T1	0	0	0	0	0	0	1.31	1.5	1	1	0	900	900	0
10/11/2024 20:36	58402	MORO_T1	0	0	0	0	0	0	-0.18	-0.23	2	2	0	1500	1500	0
10/11/2024 20:36	43302	WATS_T2	4	4	0	0.43	0.65	0.22	0	0	0	0	0	0	0	0
10/11/2024 20:36	48901	FOSP_T2	0	0	0	0	0	0	-0.39	-0.41	1	1	0	600	600	0
10/11/2024 20:36	65503	MOJO_T2	1	100	99	0.1	0.14	0.04	-0.47	-0.44	0	0	0	0	0	0
10/11/2024 20:36	40601	PIGR_T1	369	394	25	0.83	0.91	0.08	0	0	0	0	0	0	0	0
10/11/2024 20:36	15203	SFAR_T2	26	38	12	0.12	0.12	0	-1.33	-1.33	0	0	0	0	0	0
10/11/2024 20:36	57203	ROSS_T1	2	322	320	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/11/2024 20:36	67502	WEWI_T2	0	113	113	0	0.2	0.2	-0.57	-0.56	0	0	0	0	0	0
10/11/2024 20:36	43301	WATS_T2	0	1	1	0	0.2	0.2	0.11	0.12	0	0	0	0	0	0
10/11/2024 20:36	66504	SMAN_T2	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
10/11/2024 20:36	43505	WWIL_T1	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
10/11/2024 20:36	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:36	10805	CHHI_T2	1	1	0	8	7.1	-0.9	-0.92	-1.04	0	0	0	0	0	0
10/11/2024 20:36	66505	SMAN_T2	3	3	0	0.9	1.17	0.27	0	0	0	0	0	0	0	0
10/11/2024 20:36	62605	ENGL_T1	0	0	0	0	0	0	-0.82	-0.87	0	0	0	0	0	0
10/11/2024 20:36	57205	ROSS_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
10/11/2024 20:36	43504	WWIL_T1	17	17	0	0.66	0.76	0.1	0.6	0.52	0	0	0	0	0	0
10/11/2024 20:36	24702	FLND_T2	0	0	0	0	0	0	-0.22	0.96	1	0	-1	1200	0	-1200
10/11/2024 20:36	41301	FISH_T1	2	2	0	0.45	0.5	0.05	-0.1	-0.08	0	0	0	0	0	0
10/11/2024 20:36	65502	MOJO_T2	20	273	253	0.1	0.19	0.09	-1	-1.08	0	0	0	0	0	0
10/11/2024 20:36	67503	WEWI_T2	1	1	0	8.1	8.4	0.3	0	0	0	0	0	0	0	0
10/11/2024 20:36	14204	EALL_T2	0	0	0	0	0	0	1.08	0.92	0	0	0	0	0	0
10/11/2024 20:36	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:36	43506	WWIL_T1	1	3	2	1.9	0.77	-1.13	0	0	0	0	0	0	0	0
10/11/2024 20:37	14404	SSLA_T1	21	0	-21	0.11	0	-0.11	0	0	0	0	0	0	0	0
10/11/2024 20:37	66505	SMAN_T2	3	3	0	0.9	1.17	0.27	0	0	0	0	0	0	0	0
10/11/2024 20:37	66504	SMAN_T2	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
10/11/2024 20:37	65604	QVIL_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
10/11/2024 20:37	50502	SMAN_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
10/11/2024 20:37	46101	MACI_T2	0	0	0	0	0	0	0.7	0.64	0	0	0	0	0	0
10/11/2024 20:37	64802	MONE_T2	0	0	0	0	0	0	0.17	0.2	0	0	0	0	0	0
10/11/2024 20:37	15203	SFAR_T2	26	38	12	0.12	0.12	0	-2.66	-2.72	0	0	0	0	0	0
10/11/2024 20:37	55002	NEWP_T1	4	6	2	0.95	0.88	-0.07	0	0	0	0	0	0	0	0
10/11/2024 20:37	44502	HAMI_T2	1	1	0	3.5	3.8	0.3	0	0	0	0	0	0	0	0
10/11/2024 20:37	24702	FLND_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
10/11/2024 20:37	55001	NEWP_T1	0	2	2	0	0.1	0.1	-0.49	-0.46	0	0	0	0	0	0
10/11/2024 20:37	46802	HEPB_T1	2	3	1	1.15	0.77	-0.38	-0.35	-0.34	0	0	0	0	0	0
10/11/2024 20:37	14403	SSLA_T1	5	0	-5	0.14	0	-0.14	0.53	0.52	0	0	0	0	0	0
10/11/2024 20:37	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/11/2024 20:37	57403	SPAN_T1	165	132	-33	0.38	0.3	-0.08	-0.02	-0.02	0	0	0	0	0	0
10/11/2024 20:37	43304	WATS_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
10/11/2024 20:37	60801	BUCK_T1	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
10/11/2024 20:37	43302	WATS_T2	4	4	0	0.43	0.65	0.22	0	0	0	0	0	0	0	0
10/11/2024 20:37	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:37	14402	SSLA_T1	34	2	-32	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
10/11/2024 20:37	57401	SPAN_T1	2	2	0	1.55	1.3	-0.25	0	0	0	0	0	0	0	0
10/11/2024 20:37	60803	BUCK_T1	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/11/2024 20:37	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:37	48901	FOSP_T2	0	0	0	0	0	0	-0.41	-0.39	1	1	0	600	600	0
10/11/2024 20:37	48902	FOSP_T2	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
10/11/2024 20:37	44505	HAMI_T2	0	0	0	0	0	0	0.51	0.54	0	0	0	0	0	0
10/11/2024 20:37	14401	SSLA_T1	6	0	-6	0.17	0	-0.17	0	0	0	0	0	0	0	0
10/11/2024 20:38	66505	SMAN_T2	3	3	0	0.9	1.17	0.27	0	0	0	0	0	0	0	0
10/11/2024 20:38	50623	CCTY_T2	5	5	0	5.04	4.94	-0.1	0	0	0	0	0	0	0	0
10/11/2024 20:38	67605	WARW_T1	34	37	3	0.61	0.68	0.07	-1.19	-1.21	0	0	0	0	0	0
10/11/2024 20:38	40702	FFLD_T1	172	207	35	0.38	0.6	0.22	-0.98	-0.99	1	1	0	1200	1200	0
10/11/2024 20:38	54505	ENOL_T2	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
10/11/2024 20:38	40902	JESH_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
10/11/2024 20:38	15204	SFAR_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
10/11/2024 20:38	50625	CCTY_T2	5	5	0	2.74	2.76	0.02	0	0	0	0	0	0	0	0
10/11/2024 20:38	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:38	40701	FFLD_T1	72	83	11	0.52	0.77	0.25	0	0	0	0	0	0	0	0
10/11/2024 20:38	67502	WEWI_T2	0	113	113	0	0.2	0.2	-0.57	-0.56	0	0	0	0	0	0
10/11/2024 20:38	62101	ELAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:38	40901	JESH_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
10/11/2024 20:38	55002	NEWP_T1	4	6	2	0.95	0.88	-0.07	-0.29	-0.29	0	0	0	0	0	0
10/11/2024 20:38	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:38	40801	EXCH_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
10/11/2024 20:38	57205	ROSS_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
10/11/2024 20:38	55101	WERT_T1	0	0	0	0	0	0	-1.27	-1.25	1	1	0	600	600	0
10/11/2024 20:38	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:38	57203	ROSS_T1	2	322	320	0.1	0.13	0.03	0.31	0.29	0	0	0	0	0	0
10/11/2024 20:38	24702	FLND_T2	0	0	0	0	0	0	0.96	0.78	0	0	0	0	0	0
10/11/2024 20:38	51603	DUKE_T1	2	2	0	0.15	0.4	0.25	83.96	83.96	0	0	0	0	0	0
10/11/2024 20:38	50624	CCTY_T2	2	2	0	5.35	5.4	0.05	0	0	0	0	0	0	0	0
10/11/2024 20:38	66502	SMAN_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
10/11/2024 20:38	41502	FAIR_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
10/11/2024 20:38	40802	EXCH_T2	15	0	-15	0.12	0	-0.12	-0.35	-0.33	0	0	0	0	0	0
10/11/2024 20:38	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:38	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
10/11/2024 20:38	54501	ENOL_T2	4	3	-1	0.35	0.17	-0.18	0	0	0	0	0	0	0	0
10/11/2024 20:38	44802	EDAN_T2	47	281	234	0.1	0.16	0.06	0	0	0	0	0	0	0	0
10/11/2024 20:38	55001	NEWP_T1	0	2	2	0	0.1	0.1	-0.49	-0.46	0	0	0	0	0	0
10/11/2024 20:38	15203	SFAR_T2	26	38	12	0.12	0.12	0	0	0	0	0	0	0	0	0
10/11/2024 20:38	57201	ROSS_T1	135	235	100	0.26	0.37	0.11	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/11/2024 20:38	54503	ENOL_T2	0	0	0	0	0	0	-0.44	-0.46	1	1	0	600	600	0
10/11/2024 20:38	40703	FFLD_T1	4	4	0	0.6	0.85	0.25	0	0	0	0	0	0	0	0
10/11/2024 20:38	44801	EDAN_T2	303	349	46	0.74	0.88	0.14	-3.44	-3.44	0	0	0	0	0	0
10/11/2024 20:38	62106	ELAN_T1	1	6	5	0.1	0.1	0	0	0	0	0	0	0	0	0
10/11/2024 20:38	62105	ELAN_T1	32	119	87	0.1	0.13	0.03	0.38	0.37	0	0	0	0	0	0
10/11/2024 20:38	40601	PIGR_T1	369	394	25	0.83	0.91	0.08	-0.09	-0.15	0	0	0	0	0	0
10/11/2024 20:38	67503	WEWI_T2	1	1	0	8.1	8.4	0.3	0	0	0	0	0	0	0	0
10/11/2024 20:38	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:39	54603	SUMM_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/11/2024 20:39	51604	DUKE_T2	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
10/11/2024 20:39	64401	LAND_T1	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
10/11/2024 20:39	54601	SUMM_T2	13	12	-1	0.91	0.76	-0.15	-2	-1.99	2	2	0	2100	2100	0
10/11/2024 20:39	57104	SPHI_T2	2	2	0	4.2	1.1	-3.1	-0.52	-0.55	0	0	0	0	0	0
10/11/2024 20:39	63602	LETO_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:39	45801	HEGI_T1	0	0	0	0	0	0	-0.46	-0.53	1	1	0	900	900	0
10/11/2024 20:39	57101	SPHI_T2	6	6	0	1.63	1.8	0.17	0	0	0	0	0	0	0	0
10/11/2024 20:39	57106	SPHI_T2	3	3	0	1.47	1.73	0.26	0	0	0	0	0	0	0	0
10/11/2024 20:39	42701	AUGU_T1	1	0	-1	1	0	-1	0	0	2	2	0	1200	1200	0
10/11/2024 20:39	60201	ATGL_T2	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
10/11/2024 20:39	66505	SMAN_T2	3	3	0	0.9	1.17	0.27	-0.15	-0.13	1	1	0	900	900	0
10/11/2024 20:39	46102	MACI_T1	62	70	8	0.18	0.16	-0.02	0.84	0.79	0	0	0	0	0	0
10/11/2024 20:39	44802	EDAN_T2	47	281	234	0.1	0.16	0.06	-0.94	-0.94	0	0	0	0	0	0
10/11/2024 20:39	63601	LETO_T1	0	1	1	0	0.2	0.2	1.08	1.21	1	1	0	900	900	0
10/11/2024 20:39	65502	MOJO_T2	20	273	253	0.1	0.19	0.09	0	0	0	0	0	0	0	0
10/11/2024 20:39	59302	MCAL_T1	1	2	1	1.2	0.75	-0.45	0	0	0	0	0	0	0	0
10/11/2024 20:39	65503	MOJO_T2	1	100	99	0.1	0.14	0.04	-0.47	-0.44	0	0	0	0	0	0
10/11/2024 20:39	59301	MCAL_T1	2	54	52	1.2	0.23	-0.97	-1.33	-1.33	0	0	0	0	0	0
10/11/2024 20:39	44801	EDAN_T2	303	349	46	0.74	0.88	0.14	0	0	0	0	0	0	0	0
10/11/2024 20:39	63401	HONY_T1	0	0	0	0	0	0	-0.1	-0.13	1	1	0	600	600	0
10/11/2024 20:40	66505	SMAN_T2	3	3	0	0.9	1.17	0.27	-0.15	-0.13	1	1	0	900	900	0
10/11/2024 20:40	40902	JESH_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
10/11/2024 20:40	57203	ROSS_T1	2	322	320	0.1	0.13	0.03	0.31	0.29	0	0	0	0	0	0
10/11/2024 20:40	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/11/2024 20:40	66502	SMAN_T2	0	0	0	0	0	0	-0.38	-0.33	0	0	0	0	0	0
10/11/2024 20:40	67503	WEWI_T2	1	1	0	8.1	8.4	0.3	-0.3	-0.29	0	0	0	0	0	0
10/11/2024 20:40	48901	FOSP_T2	0	0	0	0	0	0	-0.41	-0.39	1	1	0	600	600	0
10/11/2024 20:40	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:40	57201	ROSS_T1	135	235	100	0.26	0.37	0.11	0	0	0	0	0	0	0	0
10/11/2024 20:40	62102	ELAN_T1	0	0	0	0	0	0	0.56	0.64	0	0	0	0	0	0
10/11/2024 20:40	46004	BERW_T2	1	0	-1	0.8	0	-0.8	-1.72	-1.62	0	0	0	0	0	0
10/11/2024 20:40	40601	PIGR_T1	369	394	25	0.83	0.91	0.08	0	0	0	0	0	0	0	0
10/11/2024 20:40	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
10/11/2024 20:40	55001	NEWP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:40	67502	WEWI_T2	0	113	113	0	0.2	0.2	0	0	0	0	0	0	0	0
10/11/2024 20:40	46802	EXCH_T2	15	0	-15	0.12	0	-0.12	-0.35	-0.33	0	0	0	0	0	0
10/11/2024 20:40	57205	ROSS_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
10/11/2024 20:40	62106	ELAN_T1	1	6	5	0.1	0.1	0	0	0	0	0	0	0	0	0
10/11/2024 20:40	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:40	62105	ELAN_T1	32	119	87	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/11/2024 20:40	51604	DUKE_T2	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
10/11/2024 20:40	42701	AUGU_T1	1	0	-1	1	0	-1	0	0	1	1	0	600	600	0
10/11/2024 20:40	40602	PIGR_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
10/11/2024 20:40	66503	SMAN_T2	0	0	0	0	0	0	0.3	0.33	0	0	0	0	0	0
10/11/2024 20:40	41902	REED_T1	0	0	0	0	0	0	0.93	0.92	0	0	0	0	0	0
10/11/2024 20:40	59402	RFLD_T2	0	0	0	0	0	0	-0.91	-0.91	1	1	0	450	450	0
10/11/2024 20:40	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:40	40801	EXCH_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
10/11/2024 20:40	65501	MOJO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:40	40901	JESH_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
10/11/2024 20:40	67605	WARW_T1	34	37	3	0.61	0.68	0.07	0	0	0	0	0	0	0	0
10/11/2024 20:40	62101	ELAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:40	41901	REED_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
10/11/2024 20:40	55002	NEWP_T1	4	6	2	0.95	0.88	-0.07	-0.29	-0.29	0	0	0	0	0	0
10/11/2024 20:41	64204	KINZ_T1	14	40	26	0.19	0.32	0.13	0	0	0	0	0	0	0	0
10/11/2024 20:41	59301	MCAL_T1	2	54	52	1.2	0.23	-0.97	-1.33	-1.33	0	0	0	0	0	0
10/11/2024 20:41	50105	HARR_T3	6	6	0	5.65	5.88	0.23	0	0	0	0	0	0	0	0
10/11/2024 20:41	61801	EELI_T2	1	2	1	0.6	0.45	-0.15	-0.97	-1	1	1	0	600	600	0
10/11/2024 20:41	40601	PIGR_T1	369	394	25	0.83	0.91	0.08	-0.09	-0.15	0	0	0	0	0	0
10/11/2024 20:41	44802	EDAN_T2	47	281	234	0.1	0.16	0.06	0	0	0	0	0	0	0	0
10/11/2024 20:41	46206	DANV_T2	0	0	0	0	0	0	2.12	2.04	4	2	-2	4200	1800	-2400
10/11/2024 20:41	55508	HERS_T2	2	2	0	1.6	1.8	0.2	-2.61	-2.65	1	1	0	1200	1200	0
10/11/2024 20:41	50107	HARR_T3	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
10/11/2024 20:41	46101	MACI_T2	0	0	0	0	0	0	0.7	0.64	0	0	0	0	0	0
10/11/2024 20:41	57401	SPAN_T1	2	2	0	1.55	1.3	-0.25	0	0	0	0	0	0	0	0
10/11/2024 20:41	50201	HARR_T3	1	1	0	0.6	0.3	-0.3	0	0	1	1	0	1200	1200	0
10/11/2024 20:41	60101	COCA_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
10/11/2024 20:41	45802	HEGI_T2	22	41	19	0.35	0.73	0.38	0.95	0.84	0	0	0	0	0	0
10/11/2024 20:41	66505	SMAN_T2	3	3	0	0.9	1.17	0.27	-0.15	-0.13	1	1	0	900	900	0
10/11/2024 20:41	66504	SMAN_T2	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
10/11/2024 20:41	64202	KINZ_T1	1	21	20	0.1	0.22	0.12	0	0	0	0	0	0	0	0
10/11/2024 20:41	64403	LAND_T1	0	0	0	0	0	0	-1.61	-1.63	1	1	0	900	900	0
10/11/2024 20:41	50102	HARR_T3	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/11/2024 20:41	59302	MCAL_T1	1	2	1	1.2	0.75	-0.45	0	0	0	0	0	0	0	0
10/11/2024 20:41	57403	SPAN_T1	165	132	-33	0.38	0.3	-0.08	-0.02	-0.02	0	0	0	0	0	0
10/11/2024 20:41	64203	KINZ_T1	0	14	14	0	0.11	0.11	0	0	0	0	0	0	0	0
10/11/2024 20:41	44801	EDAN_T2	303	349	46	0.74	0.88	0.14	-1.72	-1.72	0	0	0	0	0	0
10/11/2024 20:41	50103	HARR_T3	2	2	0	1.1	0.25	-0.85	0	0	0	0	0	0	0	0
10/11/2024 20:41	50202	HARR_T3	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
10/11/2024 20:41	40603	PIGR_T1	0	1	1	0	0.1	0.1	0.32	0.3	0	0	0	0	0	0
10/11/2024 20:41	64201	KINZ_T1	7	10	3	0.2	0.37	0.17	0	0	0	0	0	0	0	0
10/11/2024 20:41	67504	WEWI_T1	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
10/11/2024 20:42	62601	ENGL_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
10/11/2024 20:42	14802	TREI_T2	6	0	-6	0.17	0	-0.17	0.3	0.31	0	0	0	0	0	0
10/11/2024 20:42	44802	EDAN_T2	47	281	234	0.1	0.16	0.06	-0.94	-0.94	0	0	0	0	0	0
10/11/2024 20:42	42701	AUGU_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
10/11/2024 20:42	60801	BUCK_T1	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
10/11/2024 20:42	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:42	44505	HAMI_T2	0	0	0	0	0	0	0.51	0.54	0	0	0	0	0	0
10/11/2024 20:42	55503	HERS_T1	0	0	0	0	0	0	-1.6	-1.6	1	1	0	1200	1200	0
10/11/2024 20:42	44301	BEAV_T2	0	0	0	0	0	0	0.18	0.3	1	1	0	600	600	0
10/11/2024 20:42	67402	WAKE_T2	0	0	0	0	0	0	-0.51	-0.52	1	1	0	600	600	0
10/11/2024 20:42	45802	HEGI_T2	22	41	19	0.35	0.73	0.38	0.95	0.84	0	0	0	0	0	0
10/11/2024 20:42	55501	HERS_T1	52	52	0	0.5	0.62	0.12	0	0	0	0	0	0	0	0
10/11/2024 20:42	14801	TREI_T2	8	2	-6	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/11/2024 20:42	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:42	60803	BUCK_T1	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/11/2024 20:42	45801	HEGI_T1	0	0	0	0	0	0	-0.46	-0.53	1	1	0	900	900	0
10/11/2024 20:42	46001	BERW_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
10/11/2024 20:42	55507	HERS_T1	7	14	7	0.17	0.2	0.03	0	0	0	0	0	0	0	0
10/11/2024 20:42	64305	LINC_T1	0	0	0	0	0	0	-0.56	-0.65	0	0	0	0	0	0
10/11/2024 20:42	13704	SCHN_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
10/11/2024 20:42	55001	NEWP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:42	66502	SMAN_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
10/11/2024 20:42	57205	ROSS_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
10/11/2024 20:42	55002	NEWP_T1	4	6	2	0.95	0.88	-0.07	-0.29	-0.29	0	0	0	0	0	0
10/11/2024 20:42	57201	ROSS_T1	135	235	100	0.26	0.37	0.11	-1.16	-1.18	0	0	0	0	0	0
10/11/2024 20:42	55101	WERT_T1	0	0	0	0	0	0	-1.27	-1.25	1	1	0	600	600	0
10/11/2024 20:42	66505	SMAN_T2	3	3	0	0.9	1.17	0.27	0	0	0	0	0	0	0	0
10/11/2024 20:42	57203	ROSS_T1	2	322	320	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/11/2024 20:42	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:42	44502	HAMI_T2	1	1	0	3.5	3.8	0.3	0	0	0	0	0	0	0	0
10/11/2024 20:42	60102	COCA_T1	0	0	0	0	0	0	1.33	1.41	2	2	0	1200	1200	0
10/11/2024 20:42	44801	EDAN_T2	303	349	46	0.74	0.88	0.14	0	0	0	0	0	0	0	0
10/11/2024 20:43	15001	BUMO_T1	4	9	5	0.18	0.19	0.01	0	0	0	0	0	0	0	0
10/11/2024 20:43	60801	BUCK_T1	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
10/11/2024 20:43	44502	HAMI_T2	1	1	0	3.5	3.8	0.3	0	0	0	0	0	0	0	0
10/11/2024 20:43	43302	WATS_T2	4	4	0	0.43	0.65	0.22	0	0	0	0	0	0	0	0
10/11/2024 20:43	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:43	40601	PIGR_T1	369	394	25	0.83	0.91	0.08	0	0	0	0	0	0	0	0
10/11/2024 20:43	63501	HEID_TBK1-2	23	35	12	0.22	0.33	0.11	0.36	0.32	0	0	0	0	0	0
10/11/2024 20:43	58401	MORO_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
10/11/2024 20:43	51604	DUKE_T2	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
10/11/2024 20:43	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/11/2024 20:43	20401	ASHF_T2	38	21	-17	0.23	0.23	0	0	0	0	0	0	0	0	0
10/11/2024 20:43	65003	NEFF_T2	4	4	0	0.13	0.23	0.1	-1.56	-1.49	1	1	0	1200	1200	0
10/11/2024 20:43	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:43	51603	DUKE_T1	2	2	0	0.15	0.4	0.25	83.96	83.96	0	0	0	0	0	0
10/11/2024 20:43	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:43	20403	ASHF_T2	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
10/11/2024 20:43	60803	BUCK_T1	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/11/2024 20:43	59402	RFLD_T2	0	0	0	0	0	0	-0.91	-0.91	1	1	0	450	450	0
10/11/2024 20:43	67502	WEWI_T2	0	113	113	0	0.2	0.2	-0.57	-0.56	0	0	0	0	0	0
10/11/2024 20:43	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:43	67503	WEWI_T2	1	1	0	8.1	8.4	0.3	0	0	0	0	0	0	0	0
10/11/2024 20:43	64303	LINC_T1	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
10/11/2024 20:43	55508	HERS_T2	2	2	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
10/11/2024 20:43	45702	LIND_T2	1	1	0	0.9	1.4	0.5	-0.49	-0.51	0	0	0	0	0	0
10/11/2024 20:43	41301	FISH_T1	2	2	0	0.45	0.5	0.05	-0.08	-0.1	0	0	0	0	0	0
10/11/2024 20:44	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:44	44702	MUNC_T2	10	50	40	0.16	0.19	0.03	0	0	0	0	0	0	0	0
10/11/2024 20:44	44701	MUNC_T2	250	395	145	0.25	0.45	0.2	0	0	0	0	0	0	0	0
10/11/2024 20:44	64201	KINZ_T1	7	10	3	0.2	0.37	0.17	0	0	0	0	0	0	0	0
10/11/2024 20:44	67503	WEWI_T2	1	1	0	8.1	8.4	0.3	0	0	0	0	0	0	0	0
10/11/2024 20:44	66505	SMAN_T2	3	3	0	0.9	1.17	0.27	0	0	0	0	0	0	0	0
10/11/2024 20:44	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:44	62101	ELAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:44	60803	BUCK_T1	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/11/2024 20:44	62105	ELAN_T1	32	119	87	0.1	0.13	0.03	0.38	0.37	0	0	0	0	0	0
10/11/2024 20:44	62106	ELAN_T1	1	6	5	0.1	0.1	0	0	0	0	0	0	0	0	0
10/11/2024 20:44	44703	MUNC_T2	3	3	0	0.97	1.13	0.16	0	0	0	0	0	0	0	0
10/11/2024 20:44	67201	TEHI_T1	0	0	0	0	0	0	0.63	0.74	0	0	0	0	0	0
10/11/2024 20:44	64202	KINZ_T1	1	21	20	0.1	0.22	0.12	0	0	0	0	0	0	0	0
10/11/2024 20:44	64203	KINZ_T1	0	14	14	0	0.11	0.11	0.15	0.11	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/11/2024 20:44	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/11/2024 20:44	64204	KINZ_T1	14	40	26	0.19	0.32	0.13	0	0	0	0	0	0	0	0
10/11/2024 20:44	67502	WEWI_T2	0	113	113	0	0.2	0.2	-0.57	-0.56	0	0	0	0	0	0
10/11/2024 20:44	65501	MOJO_T1	0	0	0	0	0	0	-0.53	-0.58	1	1	0	900	900	0
10/11/2024 20:44	43302	WATS_T2	4	4	0	0.43	0.65	0.22	0	0	0	0	0	0	0	0
10/11/2024 20:44	64305	LINC_T1	0	0	0	0	0	0	-0.56	-0.65	0	0	0	0	0	0
10/11/2024 20:44	43304	WATS_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
10/11/2024 20:44	54603	SUMM_T2	2	2	0	0.3	0.2	-0.1	-0.9	-1.08	2	2	0	1800	1800	0
10/11/2024 20:44	66502	SMAN_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
10/11/2024 20:44	54601	SUMM_T2	13	12	-1	0.91	0.76	-0.15	0	0	0	0	0	0	0	0
10/11/2024 20:45	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
10/11/2024 20:45	59302	MCAL_T1	1	2	1	1.4	0.95	-0.45	0	0	0	0	0	0	0	0
10/11/2024 20:45	57403	SPAN_T1	120	161	41	0.31	0.33	0.02	-0.02	-0.02	0	0	0	0	0	0
10/11/2024 20:45	46504	LOHA_T1	3	20	17	0.9	0.27	-0.63	0	0	0	0	0	0	0	0
10/11/2024 20:45	63501	HEID_TBK1-2	34	37	3	0.32	0.3	-0.02	0.36	0.32	0	0	0	0	0	0
10/11/2024 20:45	58402	MORO_T1	0	0	0	0	0	0	-0.23	-0.23	2	2	0	1500	1500	0
10/11/2024 20:45	21501	CEAV_T2	0	0	0	0	0	0	1.11	1.12	0	0	0	0	0	0
10/11/2024 20:45	46506	LOHA_T1	3	3	0	4.5	5.03	0.53	0	0	0	0	0	0	0	0
10/11/2024 20:45	64704	LITI_T1	0	0	0	0	0	0	0.62	0.8	0	0	0	0	0	0
10/11/2024 20:45	64401	LAND_T1	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
10/11/2024 20:45	59301	MCAL_T1	54	71	17	0.23	0.41	0.18	-1.33	-1.33	0	0	0	0	0	0
10/11/2024 20:45	55002	NEWP_T1	5	6	1	0.96	1.18	0.22	0	0	0	0	0	0	0	0
10/11/2024 20:45	55001	NEWP_T1	0	14	14	0	0.14	-0.49	-0.46	0	0	0	0	0	0	0
10/11/2024 20:45	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:45	65602	QVIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
10/11/2024 20:45	64904	MILL_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
10/11/2024 20:45	57401	SPAN_T1	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
10/11/2024 20:46	63803	HEMP_T1	33	8	-25	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
10/11/2024 20:46	42902	MIDD_T2	0	0	0	0	0	0	-1.37	-1.33	1	1	0	600	600	0
10/11/2024 20:46	42903	MIDD_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/11/2024 20:46	63804	HEMP_T1	5	4	-1	1.16	1.33	0.17	0	0	0	0	0	0	0	0
10/11/2024 20:46	40801	EXCH_T2	0	0	0	0	0	0	0.72	0.67	0	0	0	0	0	0
10/11/2024 20:46	55508	HERS_T2	2	2	0	1.8	1.8	0	-2.61	-2.65	1	1	0	1200	1200	0
10/11/2024 20:46	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 20:46	51603	DUKE_T1	2	2	0	0.4	0.3	-0.1	83.96	83.96	0	0	0	0	0	0
10/11/2024 20:46	63801	HEMP_T1	8	1	-7	0.11	0.1	-0.01	-0.39	-0.41	0	0	0	0	0	0
10/11/2024 20:46	54701	NEBL_T1	3	6	3	0.47	0.4	-0.07	0	0	1	1	0	600	600	0
10/11/2024 20:47	64701	LITI_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
10/11/2024 20:48	44301	BEAV_T2	0	0	0	0	0	0	0.18	0.3	1	1	0	600	600	0
10/11/2024 20:48	58401	MORO_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
10/11/2024 20:48	59301	MCAL_T1	54	71	17	0.23	0.41	0.18	0	0	0	0	0	0	0	0
10/11/2024 20:48	59302	MCAL_T1	1	2	1	1.4	0.95	-0.45	0	0	0	0	0	0	0	0
10/11/2024 20:49	66504	SMAN_T2	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
10/11/2024 20:49	44801	EDAN_T2	344	348	4	0.85	0.91	0.06	0	0	0	0	0	0	0	0
10/11/2024 20:49	44802	EDAN_T2	273	283	10	0.16	0.15	-0.01	-0.94	-0.94	0	0	0	0	0	0
10/11/2024 20:49	66505	SMAN_T2	3	3	0	1.03	1.17	0.14	0	0	0	0	0	0	0	0
10/11/2024 20:50	45702	LIND_T2	1	1	0	1.3	1.7	0.4	-0.49	-0.51	0	0	0	0	0	0
10/11/2024 20:50	55105	WERT_T1	0	0	0	0	0	0	-0.76	-0.7	1	1	0	900	900	0
10/11/2024 20:52	67503	WEWI_T2	1	1	0	8.3	8.5	0.2	-0.29	-0.3	0	0	0	0	0	0
10/11/2024 20:52	67502	WEWI_T2	18	112	94	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/11/2024 20:54	54601	SUMM_T2	11	12	1	0.81	0.7	-0.11	-1.99	-2	2	2	0	2100	2100	0
10/11/2024 20:54	54603	SUMM_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/11/2024 20:58	50202	HARR_T3	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
10/11/2024 20:58	50105	HARR_T3	6	6	0	5.88	5.95	0.07	0	0	0	0	0	0	0	0
10/11/2024 20:58	50103	HARR_T3	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
10/11/2024 20:58	50107	HARR_T3	1	1	0	6.8	7.1	0.3	0	0	0	0	0	0	0	0
10/11/2024 20:58	50201	HARR_T3	1	2	1	0.3	0.2	-0.1	0	0	1	1	0	1200	1200	0
10/11/2024 20:59	64203	KINZ_T1	2	36	34	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/11/2024 20:59	16103	BING_T2	0	0	0	0	0	0	-1.04	-1.01	2	2	0	1500	1500	0
10/11/2024 20:59	64204	KINZ_T1	33	129	96	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
10/11/2024 20:59	64202	KINZ_T1	9	41	32	0.22	0.29	0.07	0.48	0.42	0	0	0	0	0	0
10/11/2024 20:59	64201	KINZ_T1	8	21	13	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
10/11/2024 21:05	65502	MOJO_T2	241	316	75	0.15	0.39	0.24	-1.08	-1.09	0	0	0	0	0	0
10/11/2024 21:05	65503	MOJO_T2	57	304	247	0.12	0.21	0.09	0	0	0	0	0	0	0	0
10/11/2024 21:10	67402	WAKE_T2	0	0	0	0	0	0	-0.52	-0.51	1	1	0	600	600	0
10/11/2024 21:12	24803	VALM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 21:12	24801	VALM_T1	0	0	0	0	0	0	-0.37	-0.34	0	0	0	0	0	0
10/11/2024 21:14	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2024 21:14	55002	NEWP_T1	6	6	0	0.87	1.42	0.55	0	0	0	0	0	0	0	0
10/11/2024 21:14	55001	NEWP_T1	2	35	33	0.1	0.18	0.08	-0.48	-0.5	0	0	0	0	0	0
10/11/2024 21:15	62605	ENGL_T1	0	0	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0
10/11/2024 21:21	46802	HEPB_T1	2	2	0	1.05	0.85	-0.2	-0.39	-0.38	0	0	0	0	0	0
10/12/2024 8:06	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 8:13	45901	AUBU_T1	0	0	0	0	0	0	0.88	0.93	0	0	0	0	0	0
10/12/2024 8:24	45901	AUBU_T1	0	0	0	0	0	0	0.93	0.9	0	0	0	0	0	0
10/12/2024 8:31	20603	GRWO_T2	0	0	0	0	0	0	0.29	0.36	0	0	0	0	0	0
10/12/2024 8:32	50501	MECH_T1	4	4	0	1.45	1.55	0.1	-1.24	-1.25	0	0	0	0	0	0
10/12/2024 8:32	50502	MECH_T1	1	3	2	2.9	1.07	-1.83	0	0	0	0	0	0	0	0
10/12/2024 8:33	50502	MECH_T1	1	3	2	2.9	1.07	-1.83	0	0	0	0	0	0	0	0
10/12/2024 8:33	50501	MECH_T1	4	4	0	1.45	1.55	0.1	-1.24	-1.25	0	0	0	0	0	0
10/12/2024 8:37	50502	MECH_T1	1	3	2	2.9	1.07	-1.83	1471.43	1471.43	2	2	0	2100	2100	0
10/12/2024 8:37	50501	MECH_T1	4	4	0	1.45	1.55	0.1	0	0	0	0	0	0	0	0
10/12/2024 8:45	63501	HEID_TBK1-2	1	1	0	0.8	0.7	-0.1	0.29	0.39	0	0	0	0	0	0
10/12/2024 8:46	24105	EHAZ_T1	4	4	0	6.23	6.28	0.05	0	0	0	0	0	0	0	0
10/12/2024 8:46	24102	EHAZ_T1	0	0	0	0	0	0	0.07	0.11	0	0	0	0	0	0
10/12/2024 8:55	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 9:16	54502	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/12/2024 9:16	54505	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/12/2024 9:16	54501	ENOL_T2	0	0	0	0	0	0	-0.55	-0.57	1	1	0	600	600	0
10/12/2024 9:20	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
10/12/2024 9:20	64203	KINZ_T1	0	0	0	0	0	0	-0.28	-0.02	1	1	0	600	600	0
10/12/2024 9:20	64202	KINZ_T1	1	3	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0
10/12/2024 9:21	65205	PRIN_T1	2	2	0	2.45	0.65	-1.8	0	0	0	0	0	0	0	0
10/12/2024 9:22	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 9:26	64602	LEOL_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
10/12/2024 9:26	45501	DERR_T2	0	1	1	0	0.3	0.3	0.31	0.29	1	1	0	600	600	0
10/12/2024 9:29	45501	DERR_T2	0	1	1	0	0.3	0.3	0.31	0.29	1	1	0	600	600	0
10/12/2024 9:31	20603	GRWO_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
10/12/2024 9:34	64402	LAND_T2	0	0	0	0	0	0	-0.47	-0.42	1	1	0	600	600	0
10/12/2024 9:41	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 9:43	23502	GEOR_T1	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
10/12/2024 9:52	15203	SFAR_T2	2	3	1	0.3	0.33	0.03	-1.33	-1.24	0	0	0	0	0	0
10/12/2024 9:55	42701	AUGU_T1	1	1	0	0.5	0.5	0	0	0	2	2	0	1800	1800	0
10/12/2024 9:56	20403	ASHF_T2	0	0	0	0	0	0	0.14	0.21	0	0	0	0	0	0
10/12/2024 9:57	20403	ASHF_T2	0	0	0	0	0	0	0.14	0.21	0	0	0	0	0	0
10/12/2024 10:00	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/12/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
10/12/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
10/12/2024 10:00	67503	WEWI_T2	1	1	0	7.2	7.4	0.2	-0.31	-0.27	0	0	0	0	0	0
10/12/2024 10:00	50107	HARR_T3	1	1	0	8.5	8.4	-0.1	0	0	0	0	0	0	0	0
10/12/2024 10:00	50201	HARR_T3	1	1	0	0.2	0.2	0	0	0	1	1	0	1200	1200	0
10/12/2024 10:00	64602	LEOL_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
10/12/2024 10:00	50105	HARR_T3	6	6	0	6.38	6.27	-0.11	0	0	0	0	0	0	0	0
10/12/2024 10:00	66502	SMAN_T2	0	1	1	0	0.2	0.2	-0.12	-0.07	0	0	0	0	0	0
10/12/2024 10:08	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/12/2024 10:08	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/12/2024 10:08	15203	SFAR_T2	3	2	-1	0.33	0.3	-0.03	-1.24	-1.28	0	0	0	0	0	0
10/12/2024 10:09	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/12/2024 10:09	66504	SMAN_T2	0	1	1	0	0.2	0.2	-1.66	-1.69	1	1	0	1200	1200	0
10/12/2024 10:10	66504	SMAN_T2	0	1	1	0	0.2	0.2	-3.33	-3.39	2	2	0	2400	2400	0
10/12/2024 10:10	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/12/2024 10:13	61801	EELI_T2	0	0	0	0	0	0	-0.93	-0.89	1	1	0	600	600	0
10/12/2024 10:14	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 10:14	45901	AUBU_T1	0	0	0	0	0	0	0.93	0.88	0	0	0	0	0	0
10/12/2024 10:14	45902	AUBU_T1	0	0	0	0	0	0	0.08	0.11	1	1	0	600	600	0
10/12/2024 10:15	22901	HARW_T1	1	1	0	0.3	0.2	-0.1	-0.32	-0.33	1	1	0	1200	1200	0
10/12/2024 10:15	45902	AUBU_T1	0	0	0	0	0	0	0.08	0.11	1	1	0	600	600	0
10/12/2024 10:18	64204	KINZ_T1	1	3	2	0.6	0.7	0.1	0	0	0	0	0	0	0	0
10/12/2024 10:18	64203	KINZ_T1	0	0	0	0	0	0	-0.33	-0.3	1	1	0	600	600	0
10/12/2024 10:18	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/12/2024 10:21	66504	SMAN_T2	0	1	1	0	0.2	0.2	-1.69	-1.74	1	1	0	1200	1200	0
10/12/2024 10:21	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/12/2024 10:22	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/12/2024 10:22	66504	SMAN_T2	0	1	1	0	0.2	0.2	-1.69	-1.74	1	1	0	1200	1200	0
10/12/2024 10:23	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 10:24	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/12/2024 10:24	66504	SMAN_T2	0	1	1	0	0.2	0.2	-1.69	-1.74	1	1	0	1200	1200	0
10/12/2024 10:24	67201	TEHI_T1	0	2	2	0	0.25	0.25	0.91	0.96	0	0	0	0	0	0
10/12/2024 10:25	66502	SMAN_T2	0	1	1	0	0.2	0.2	-0.07	0.11	0	0	0	0	0	0
10/12/2024 10:25	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/12/2024 10:26	42701	AUGU_T1	1	2	1	0.4	0.35	-0.05	0	0	2	2	0	1800	1800	0
10/12/2024 10:26	67201	TEHI_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/12/2024 10:26	67203	TEHI_T1	0	0	0	0	0	0	0.91	0.95	1	1	0	900	900	0
10/12/2024 10:27	60801	BUCK_T1	0	0	0	0	0	0	-0.9	-0.88	1	1	0	600	600	0
10/12/2024 10:28	42701	AUGU_T1	1	2	1	0.4	0.35	-0.05	0	0	2	2	0	1800	1800	0
10/12/2024 10:31	45902	AUBU_T1	0	1	1	0	0.2	0.2	0.22	0.36	2	2	0	1200	1200	0
10/12/2024 10:31	63501	HEID_TBK1-2	2	1	-1	0.5	0.5	0	0.93	0.96	0	0	0	0	0	0
10/12/2024 10:31	48302	ORWI_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/12/2024 10:32	63501	HEID_TBK1-2	2	1	-1	0.5	0.5	0	0.47	0.48	0	0	0	0	0	0
10/12/2024 10:33	63501	HEID_TBK1-2	2	1	-1	0.5	0.5	0	0.47	0.48	0	0	0	0	0	0
10/12/2024 10:34	65503	MOJO_T2	0	1	1	0	0.1	0.1	-0.57	-0.61	0	0	0	0	0	0
10/12/2024 10:35	63501	HEID_TBK1-2	2	1	-1	0.5	0.5	0	0.47	0.48	0	0	0	0	0	0
10/12/2024 10:36	41902	REED_T1	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
10/12/2024 10:36	44201	POIN_T1	237	223	-14	0.29	0.25	-0.04	-6.82	-6.61	6	6	0	6300	6300	0
10/12/2024 10:37	11203	ELHE_T1	0	0	0	0	0	0	0.96	0.96	0	0	0	0	0	0
10/12/2024 10:37	44201	POIN_T1	237	223	-14	0.29	0.25	-0.04	-4.55	-4.41	4	4	0	4200	4200	0
10/12/2024 10:38	15203	SFAR_T2	2	1	-1	0.3	0.4	0.1	-1.27	-1.25	0	0	0	0	0	0
10/12/2024 10:38	44201	POIN_T1	237	223	-14	0.29	0.25	-0.04	-2.27	-2.2	2	2	0	2100	2100	0
10/12/2024 10:39	15203	SFAR_T2	2	1	-1	0.3	0.4	0.1	-1.27	-1.25	0	0	0	0	0	0
10/12/2024 10:44	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 10:45	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 10:45	21202	ECAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/12/2024 10:45	21206	ECAR_T2	1	1	0	6.4	6.8	0.4	1.38	1.37	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/12/2024 10:48	58401	MORO_T1	0	0	0	0	0	0	-1.27	-1.25	1	1	0	600	600	0
10/12/2024 10:53	58401	MORO_T1	0	0	0	0	0	0	-1.25	-1.23	1	1	0	600	600	0
10/12/2024 10:54	66504	SMAN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/12/2024 10:54	20403	ASHF_T2	1	1	0	0.1	0.4	0.3	0.2	0.09	0	0	0	0	0	0
10/12/2024 10:54	66505	SMAN_T2	0	0	0	0	0	0	0.48	0.6	2	2	0	1100	1100	0
10/12/2024 10:54	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/12/2024 10:55	20403	ASHF_T2	1	1	0	0.1	0.4	0.3	0.2	0.09	0	0	0	0	0	0
10/12/2024 10:55	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/12/2024 10:58	10801	CHHI_T1	0	0	0	0	0	0	-1.49	-1.47	2	2	0	1500	1500	0
10/12/2024 10:59	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.35	0.32	1	1	0	600	600	0
10/12/2024 11:00	45501	DERR_T2	0	0	0	0	0	0	0.35	0.32	1	1	0	600	600	0
10/12/2024 11:05	58401	MORO_T1	0	0	0	0	0	0	-1.25	-1.23	1	1	0	600	600	0
10/12/2024 11:06	58401	MORO_T1	0	0	0	0	0	0	-1.25	-1.23	1	1	0	600	600	0
10/12/2024 11:07	58402	MORO_T1	0	0	0	0	0	0	0.01	-0.01	1	1	0	900	900	0
10/12/2024 11:12	16101	BING_T2	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
10/12/2024 11:12	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/12/2024 11:18	25402	LAHA_T2	0	0	0	0	0	0	-0.32	-0.24	0	0	0	0	0	0
10/12/2024 11:19	64305	LINC_T1	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
10/12/2024 11:20	13303	ORVI_T1	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
10/12/2024 11:21	58401	MORO_T1	0	0	0	0	0	0	-2.46	-2.44	2	2	0	1200	1200	0
10/12/2024 11:27	67605	WARW_T1	5	3	-2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
10/12/2024 11:27	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
10/12/2024 11:28	67602	WARW_T2	0	0	0	0	0	0	1.31	1.27	1	1	0	300	300	0
10/12/2024 11:29	53903	HALI_T2	2	2	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
10/12/2024 11:29	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
10/12/2024 11:30	21206	ECAR_T2	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
10/12/2024 11:30	21202	ECAR_T2	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
10/12/2024 11:30	21204	ECAR_T2	1	1	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
10/12/2024 11:31	53901	HALI_T2	0	0	0	0	0	0	0.96	0	0	0	0	0	0	0
10/12/2024 11:31	53902	HALI_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
10/12/2024 11:31	53903	HALI_T2	2	2	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
10/12/2024 11:32	46803	HEPB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/12/2024 11:32	46801	HEPB_T2	2	2	0	0.2	0.15	-0.05	0.52	0.52	0	0	0	0	0	0
10/12/2024 11:35	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 11:36	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 11:41	67605	WARW_T1	3	3	0	0.2	0.23	0.03	-1.06	-1.05	0	0	0	0	0	0
10/12/2024 11:47	53902	HALI_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
10/12/2024 11:47	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/12/2024 11:47	53903	HALI_T2	2	3	1	0.65	0.77	0.12	0	0	0	0	0	0	0	0
10/12/2024 11:53	58401	MORO_T1	0	0	0	0	0	0	-2.42	-2.36	2	2	0	1200	1200	0
10/12/2024 11:53	66504	SMAN_T2	1	2	1	0.6	0.35	-0.25	-1.64	-1.69	1	1	0	1200	1200	0
10/12/2024 11:54	44904	SCOT_T1	0	0	0	0	0	0	-0.15	-0.13	0	0	0	0	0	0
10/12/2024 11:54	44905	SCOT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 11:56	22001	BOHE_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
10/12/2024 11:56	67602	WARW_T2	0	0	0	0	0	0	1.28	1.32	1	1	0	300	300	0
10/12/2024 11:56	22003	BOHE_T1	11	18	7	0.21	0.21	0	0	0	0	0	0	0	0	0
10/12/2024 12:01	20603	GRWO_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
10/12/2024 12:02	13501	MCMI_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
10/12/2024 12:04	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
10/12/2024 12:09	67402	WAKE_T2	0	0	0	0	0	0	-0.39	-0.38	1	1	0	600	600	0
10/12/2024 12:09	11202	ELHE_T2	0	0	0	0	0	0	0.44	0.41	1	1	0	1200	1200	0
10/12/2024 12:09	42701	AUGU_T1	2	4	2	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
10/12/2024 12:10	42701	AUGU_T1	2	4	2	0.45	0.38	-0.07	0	0	2	2	0	1800	1800	0
10/12/2024 12:13	42701	AUGU_T1	2	4	2	0.45	0.38	-0.07	0	0	2	2	0	1800	1800	0
10/12/2024 12:20	65207	PRIN_T4	9	1	-8	0.17	0.4	0.23	0	0	2	2	0	1800	1800	0
10/12/2024 12:20	65205	PRIN_T1	2	1	-1	4.95	1.8	-3.15	0	0	0	0	0	0	0	0
10/12/2024 12:20	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 12:24	40101	HUNT_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
10/12/2024 12:28	16101	BING_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
10/12/2024 12:28	16102	BING_T2	5	5	0	0.66	0.82	0.16	0	0	0	0	0	0	0	0
10/12/2024 12:28	16103	BING_T2	1	1	0	0.8	0.8	0	-0.91	-0.9	2	2	0	1500	1500	0
10/12/2024 12:32	53903	HALI_T2	3	5	2	0.8	0.56	-0.24	0	0	0	0	0	0	0	0
10/12/2024 12:32	53902	HALI_T2	2	3	1	2.9	1.97	-0.93	0	0	0	0	0	0	0	0
10/12/2024 12:34	53902	HALI_T2	2	3	1	2.9	1.97	-0.93	0	0	0	0	0	0	0	0
10/12/2024 12:34	53903	HALI_T2	3	5	2	0.8	0.56	-0.24	0	0	0	0	0	0	0	0
10/12/2024 12:38	42601	TUSC_T1	0	0	0	0	0	0	-0.22	-0.24	2	2	0	1800	1800	0
10/12/2024 12:43	11205	ELHE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 12:43	11203	ELHE_T1	0	0	0	0	0	0	0.96	0.97	0	0	0	0	0	0
10/12/2024 12:49	60201	ATGL_T2	9	24	15	0.13	0.16	0.03	-0.49	-0.48	0	0	0	0	0	0
10/12/2024 12:57	45902	AUBU_T1	1	1	0	0.9	1.1	0.2	0.15	0.12	1	1	0	600	600	0
10/12/2024 13:18	50103	HARR_T3	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/12/2024 13:18	50107	HARR_T3	1	1	0	9.4	9.4	0	0	0	0	0	0	0	0	0
10/12/2024 13:18	50201	HARR_T3	1	1	0	0.3	0.4	0.1	0	0	2	2	0	2400	2400	0
10/12/2024 13:18	59301	MCAL_T1	4	5	1	0.9	1.1	0.2	-3.72	-3.74	2	2	0	1200	1200	0
10/12/2024 13:18	50105	HARR_T3	6	6	0	6.32	6.33	0.01	0	0	0	0	0	0	0	0
10/12/2024 13:18	59302	MCAL_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
10/12/2024 13:20	59302	MCAL_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
10/12/2024 13:20	59301	MCAL_T1	4	5	1	0.9	1.1	0.2	0	0	0	0	0	0	0	0
10/12/2024 13:22	59302	MCAL_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
10/12/2024 13:22	59301	MCAL_T1	4	5	1	0.9	1.1	0.2	-5.61	-5.49	3	3	0	1800	1800	0
10/12/2024 13:28	60801	BUCK_T1	3	4	1	0.27	0.2	-0.07	-0.88	-0.88	1	1	0	600	600	0
10/12/2024 13:37	43301	WATS_T2	1	1	0	0.4	0.5	0.1	-0.8	-0.82	1	1	0	900	900	0
10/12/2024 13:38	43301	WATS_T2	1	1	0	0.4	0.5	0.1	-0.8	-0.82	1	1	0	900	900	0
10/12/2024 13:38	14802	TREI_T2	2	0	-2	0.15	0	-0.15	0.39	0.36	0	0	0	0	0	0
10/12/2024 13:39	14802	TREI_T2	2	0	-2	0.15	0	-0.15	0.39	0.36	0	0	0	0	0	0
10/12/2024 13:39	43301	WATS_T2	1	1	0	0.4	0.5	0.1	-0.8	-0.82	1	1	0	900	900	0
10/12/2024 13:40	14802	TREI_T2	2	0	-2	0.15	0	-0.15	0.39	0.36	0	0	0	0	0	0
10/12/2024 13:41	14802	TREI_T2	2	0	-2	0.15	0	-0.15	0.39	0.36	0	0	0	0	0	0
10/12/2024 13:42	15702	TANN_T2	0	0	0	0	0	0	-0.62	-0.75	0	0	0	0	0	0
10/12/2024 13:42	15703	TANN_T2	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
10/12/2024 13:45	26704	HEML_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	1200	1200	0
10/12/2024 13:45	43301	WATS_T2	1	1	0	0.5	0.1	-0.4	-0.8	-0.82	1	1	0	900	900	0
10/12/2024 13:45	44801	EDAN_T2	19	34	15	0.29	0.27	-0.02	-1.74	-1.73	0	0	0	0	0	0
10/12/2024 13:46	15702	TANN_T2	0	0	0	0	0	0	-0.31	-0.38	0	0	0	0	0	0
10/12/2024 13:46	15703	TANN_T2	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
10/12/2024 13:48	25502	MADI_T1	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
10/12/2024 13:48	25501	MADI_T1	4	7	3	0.95	0.82	-0.13	0	0	0	0	0	0	0	0
10/12/2024 13:48	25503	MADI_T1	217	268	51	0.48	0.46	-0.02	-1.07	-1.05	0	0	0	0	0	0
10/12/2024 13:51	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 13:55	42701	AUGU_T1	1	2	1	0.4	0.25	-0.15	0	0	2	2	0	1800	1800	0
10/12/2024 13:56	42701	AUGU_T1	1	2	1	0.4	0.25	-0.15	0	0	4	4	0	3600	3600	0
10/12/2024 13:56	67402	WAKE_T2	0	0	0	0	0	0	-0.35	-0.35	1	1	0	600	600	0
10/12/2024 13:58	53101	WTWN_T1	2	5	3	0.15	0.32	0.17	0	0	0	0	0	0	0	0
10/12/2024 13:58	53102	WTWN_T1	0	0	0	0	0	0	-1.1	-1.1	0	0	0	0	0	0
10/12/2024 14:01	44502	HAMI_T2	1	1	0	3.1	3.3	0.2	0	0	0	0	0	0	0	0
10/12/2024 14:01	44505	HAMI_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
10/12/2024 14:02	44505	HAMI_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
10/12/2024 14:02	44502	HAMI_T2	1	1	0	3.1	3.3	0.2	0	0	0	0	0	0	0	0
10/12/2024 14:03	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 14:03	44502	HAMI_T2	1	1	0	3.1	3.3	0.2	0	0	0	0	0	0	0	0
10/12/2024 14:05	13302	ORVI_T2	3	3	0	1.07	1.03	-0.04	1.11	1.08	0	0	0	0	0	0
10/12/2024 14:07	43802	SWIL_T1	0	0	0	0	0	0	-0.09	-0.09	1	1	0	600	600	0
10/12/2024 14:07	64403	LAND_T1	0	2	2	0	0.15	0.15	-1.96	-1.99	1	1	0	900	900	0
10/12/2024 14:07	43801	SWIL_T1	2	2	0	3.15	3.15	0	0	0	0	0	0	0	0	0
10/12/2024 14:09	65207	PRIN_T4	6	35	29	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/12/2024 14:09	65206	PRIN_T4	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
10/12/2024 14:09	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 14:13	14204	EALL_T2	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
10/12/2024 14:14	41305	FISH_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
10/12/2024 14:14	41301	FISH_T1	4	4	0	1.73	1.55	-0.18	-0.13	-0.16	0	0	0	0	0	0
10/12/2024 14:15	63804	HEMP_T1	7	8	1	0.87	0.78	-0.09	0	0	0	0	0	0	0	0
10/12/2024 14:15	63802	HEMP_T1	3	2	-1	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
10/12/2024 14:15	63801	HEMP_T1	11	27	16	0.4	0.24	-0.16	-0.17	-0.22	0	0	0	0	0	0
10/12/2024 14:15	63803	HEMP_T1	18	21	3	0.19	0.19	0	0	0	0	0	0	0	0	0
10/12/2024 14:16	63801	HEMP_T1	11	27	16	0.4	0.24	-0.16	0	0	0	0	0	0	0	0
10/12/2024 14:16	40601	PIGR_T1	44	124	80	0.28	0.33	0.05	0	0	0	0	0	0	0	0
10/12/2024 14:16	40603	PIGR_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/12/2024 14:16	63804	HEMP_T1	7	8	1	0.87	0.78	-0.09	1.02	1.04	0	0	0	0	0	0
10/12/2024 14:16	63802	HEMP_T1	3	2	-1	0.23	0.15	-0.08	-0.59	-0.56	0	0	0	0	0	0
10/12/2024 14:16	63803	HEMP_T1	18	21	3	0.19	0.19	0	0	0	0	0	0	0	0	0
10/12/2024 14:16	40602	PIGR_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
10/12/2024 14:17	41305	FISH_T1	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
10/12/2024 14:17	41301	FISH_T1	4	4	0	1.55	1.4	-0.15	0	0	0	0	0	0	0	0
10/12/2024 14:18	65004	NEFF_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
10/12/2024 14:18	63801	HEMP_T1	11	27	16	0.4	0.24	-0.16	0	0	0	0	0	0	0	0
10/12/2024 14:18	65001	NEFF_T2	0	0	0	0	0	0	0.17	0.21	0	0	0	0	0	0
10/12/2024 14:18	63802	HEMP_T1	3	2	-1	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
10/12/2024 14:18	61001	DONV_T1	2	1	-1	1	0.8	-0.2	0	0	0	0	0	0	0	0
10/12/2024 14:18	65003	NEFF_T2	7	7	0	0.39	0.34	-0.05	0	0	0	0	0	0	0	0
10/12/2024 14:18	63803	HEMP_T1	18	21	3	0.19	0.19	0	0.5	0.51	0	0	0	0	0	0
10/12/2024 14:18	63804	HEMP_T1	7	8	1	0.87	0.78	-0.09	0	0	0	0	0	0	0	0
10/12/2024 14:18	41301	FISH_T1	4	4	0	1.55	1.4	-0.15	-0.13	-0.16	0	0	0	0	0	0
10/12/2024 14:18	41305	FISH_T1	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
10/12/2024 14:18	65005	NEFF_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
10/12/2024 14:19	61001	DONV_T1	2	1	-1	1	0.8	-0.2	0	0	0	0	0	0	0	0
10/12/2024 14:19	63802	HEMP_T1	3	2	-1	0.23	0.15	-0.08	-1.19	-1.11	0	0	0	0	0	0
10/12/2024 14:19	63804	HEMP_T1	7	8	1	0.87	0.78	-0.09	0	0	0	0	0	0	0	0
10/12/2024 14:19	63803	HEMP_T1	18	21	3	0.19	0.19	0	0	0	0	0	0	0	0	0
10/12/2024 14:19	63801	HEMP_T1	11	27	16	0.4	0.24	-0.16	0	0	0	0	0	0	0	0
10/12/2024 14:20	10903	COOP_T2	1	0	-1	0.1	0	-0.1	-0.38	-0.35	1	1	0	600	600	0
10/12/2024 14:20	63804	HEMP_T1	7	8	1	0.87	0.78	-0.09	0	0	0	0	0	0	0	0
10/12/2024 14:20	63801	HEMP_T1	11	27	16	0.4	0.24	-0.16	0	0	0	0	0	0	0	0
10/12/2024 14:20	63802	HEMP_T1	3	2	-1	0.23	0.15	-0.08	-0.59	-0.56	0	0	0	0	0	0
10/12/2024 14:20	10901	COOP_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
10/12/2024 14:20	64305	LINC_T1	0	0	0	0	0	0	-0.5	-0.47	0	0	0	0	0	0
10/12/2024 14:20	63803	HEMP_T1	18	21	3	0.19	0.19	0	0	0	0	0	0	0	0	0
10/12/2024 14:21	63803	HEMP_T1	18	21	3	0.19	0.19	0	0	0	0	0	0	0	0	0
10/12/2024 14:21	63802	HEMP_T1	3	2	-1	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
10/12/2024 14:21	63804	HEMP_T1	7	8	1	0.87	0.78	-0.09	0	0	0	0	0	0	0	0
10/12/2024 14:21	63801	HEMP_T1	11	27	16	0.4	0.24	-0.16	-0.22	-0.23	0	0	0	0	0	0
10/12/2024 14:22	66202	SISP_T2	0	0	0	0	0	0	-0.82	-0.79	0	0	0	0	0	0
10/12/2024 14:23	65503	MOJO_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/12/2024 14:23	65502	MOJO_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/12/2024 14:24	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 14:24	65503	MOJO_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/12/2024 14:26	46203	DANV_T2	2	5	3	0.25	0.3	0.05	-2.14	-2.14	0	0	0	0	0	0
10/12/2024 14:28	46203	DANV_T2	2	5	3	0.25	0.3	0.05	-2.14	-2.14	0	0	0	0	0	0
10/12/2024 14:32	66303	MCGO_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/12/2024 14:32	66301	MCGO_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
10/12/2024 14:32	66302	MCGO_T2	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
10/12/2024 14:36	66302	MCGO_T2	2	2	0	0.55	0.5	-0.05	-0.9	-0.98	0	0	0	0	0	0
10/12/2024 14:36	66303	MCGO_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/12/2024 14:38	41301	FISH_T1	4	4	0	1.4	1.3	-0.1	-0.16	-0.16	0	0	0	0	0	0
10/12/2024 14:38	41305	FISH_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
10/12/2024 14:44	24702	FLND_T2	0	2	2	0	0.35	0.35	-0.54	-0.54	1	1	0	1200	1200	0
10/12/2024 14:50	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 14:56	20403	ASHF_T2	5	4	-1	0.46	0.4	-0.06	0.08	0.08	0	0	0	0	0	0
10/12/2024 14:56	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/12/2024 14:58	44801	EDAN_T2	49	47	-2	0.31	0.25	-0.06	-1.69	-1.72	0	0	0	0	0	0
10/12/2024 15:05	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 15:06	48302	ORWI_T2	2	2	0	0.5	0.4	-0.1	-0.04	-0.07	0	0	0	0	0	0
10/12/2024 15:09	50201	HARR_T3	1	1	0	0.4	0.4	0	0	0	1	1	0	1200	1200	0
10/12/2024 15:09	50103	HARR_T3	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/12/2024 15:09	50107	HARR_T3	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0	0
10/12/2024 15:09	50105	HARR_T3	6	6	0	6.22	6.28	0.06	0	0	0	0	0	0	0	0
10/12/2024 15:12	20106	AVOC_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/12/2024 15:12	20103	AVOC_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
10/12/2024 15:13	22002	BOHE_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
10/12/2024 15:13	22003	BOHE_T1	220	235	15	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
10/12/2024 15:19	63501	HEID_TBK1-2	5	15	10	0.34	0.17	-0.17	-0.24	-0.22	1	1	0	900	900	0
10/12/2024 15:36	63501	HEID_TBK1-2	2	22	20	0.55	0.19	-0.36	-0.29	-0.26	1	1	0	900	900	0
10/12/2024 15:39	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/12/2024 15:46	23401	HONE_T2	0	1	1	0	0.2	0.2	-0.12	-0.14	0	0	0	0	0	0
10/12/2024 16:48	64401	LAND_T1	0	1	1	0	0	0	-0.53	-0.55	0	0	0	0	0	0
10/12/2024 16:50	64401	LAND_T1	0	1	1	0	0	0	-0.53	-0.55	0	0	0	0	0	0
10/12/2024 16:53	10801	CHHI_T1	0	0	0	0	0	0	-1.45	-1.45	2	2	0	1500	1500	0
10/12/2024 17:08	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 17:10	44202	POIN_T2	0	0	0	0	0	0	-1.01	-1.02	1	1	0	1200	1200	0
10/12/2024 17:14	24701	FLND_T2	0	0	0	0	0	0	-0.94	0.36	0	0	0	0	0	0
10/12/2024 17:17	24201	PROV_T3	1	1	0	6.8	6.5	-0.3	-1.5	-1.51	1	1	0	1200	1200	0
10/12/2024 17:17	24205	PROV_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/12/2024 17:17	24204	PROV_T3	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
10/12/2024 17:19	55001	NEWP_T1	1	1	0	0.3	0.1	-0.2	-0.27	-0.16	0	0	0	0	0	0
10/12/2024 17:19	55002	NEWP_T1	6	6	0	1	1.18	0.18	0	0	0	0	0	0	0	0
10/12/2024 17:22	55002	NEWP_T1	6	6	0	1	1.18	0.18	-0.23	-0.24	0	0	0	0	0	0
10/12/2024 17:22	55001	NEWP_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/12/2024 17:23	44202	POIN_T2	0	0	0	0	0	0	-1.02	-1.01	1	1	0	1200	1200	0
10/12/2024 17:25	44202	POIN_T2	0	0	0	0	0	0	-1.02	-1.01	1	1	0	1200	1200	0
10/12/2024 17:37	60301	TWVA_T2	0	0	0	0	0	0	-1.99	-1.98	2	2	0	1800	1800	0
10/12/2024 17:43	60404	DILL_T2	0	0	0	0	0	0	-0.6	-0.63	1	1	0	1200	1200	0
10/12/2024 17:46	60404	DILL_T2	0	0	0	0	0	0	-0.6	-0.63	1	1	0	1200	1200	0
10/12/2024 17:56	63801	HEMP_T1	0	4	4	0	0.1	0.1	-0.27	-0.3	0	0	0	0	0	0
10/12/2024 17:56	63803	HEMP_T1	3	11	8	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/12/2024 17:56	63804	HEMP_T1	5	5	0	1.12	1.14	0.02	0	0	0	0	0	0	0	0
10/12/2024 18:41	66302	MCGO_T2	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
10/12/2024 18:41	66303	MCGO_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/12/2024 19:44	60404	DILL_T2	0	0	0	0	0	0	-0.69	-0.67	1	1	0	1200	1200	0
10/12/2024 19:44	60403	DILL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
10/12/2024 20:06	64602	LEOL_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
10/12/2024 20:09	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 20:18	61801	EELI_T2	0	0	0	0	0	0	-0.99	-1	1	1	0	600	600	0
10/12/2024 20:21	41301	FISH_T1	2	2	0	1.3	1.05	-0.25	-0.22	-0.24	0	0	0	0	0	0
10/12/2024 20:23	16101	BING_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
10/12/2024 20:23	22003	BOHE_T1	18	81	63	0.15	0.16	0.01	0	0	0	0	0	0	0	0
10/12/2024 20:23	22002	BOHE_T1	0	0	0	0	0	0	0.32	0.25	0	0	0	0	0	0
10/12/2024 20:23	16102	BING_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/12/2024 20:24	26704	HEML_T2	0	0	0	0	0	0	-0.89	-0.9	1	1	0	1200	1200	0
10/12/2024 20:24	44201	POIN_T1	355	0	-355	0.27	0	-0.27	-1.75	-1.83	1	1	0	1200	1200	0
10/12/2024 20:25	15203	SFAR_T2	0	1	1	0	0.1	0.1	-1.31	-1.34	0	0	0	0	0	0
10/12/2024 20:25	53902	HALI_T2	1	1	0	5.8	5.8	0	-1.73	-1.72	0	0	0	0	0	0
10/12/2024 20:25	24204	PROV_T3	2	3	1	2.8	1.93	-0.87	0	0	0	0	0	0	0	0
10/12/2024 20:25	24201	PROV_T3	3	25	22	2.37	0.38	-1.99	-1.59	-1.57	1	1	0	1200	1200	0
10/12/2024 20:25	53903	HALI_T2	2	2	0	1.3	1.15	-0.15	0	0	0	0	0	0	0	0
10/12/2024 20:26	65001	NEFF_T2	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
10/12/2024 20:26	59302	MCAL_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
10/12/2024 20:26	48302	ORWI_T2	2	2	0	0.9	0.85	-0.05	-0.14	-0.16	0	0	0	0	0	0
10/12/2024 20:26	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 20:26	13303	ORVI_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
10/12/2024 20:26	59301	MCAL_T1	2	2	0	1.1	1.2	0.1	-1.94	-1.96	1	1	0	600	600	0
10/12/2024 20:26	65003	NEFF_T2	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/12/2024 20:27	25402	LAHA_T2	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
10/12/2024 20:27	25501	MADI_T1	5	4	-1	2.78	2.08	-0.7	0	0	0	0	0	0	0	0
10/12/2024 20:27	25503	MADI_T1	198	250	52	0.4	0.47	0.07	-1.04	-1.07	0	0	0	0	0	0
10/12/2024 20:28	65206	PRIN_T4	7	2	-5	0.1	0.1	0	0	0	0	0	0	0	0	0
10/12/2024 20:28	67605	WARW_T1	9	13	4	0.47	0.62	0.15	0	0	0	0	0	0	0	0
10/12/2024 20:28	67603	WARW_T1	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
10/12/2024 20:28	59301	MCAL_T1	2	2	0	1.1	1.2	0.1	-1.94	-1.96	1	1	0	600	600	0
10/12/2024 20:28	22003	BOHE_T1	18	81	63	0.15	0.16	0.01	0	0	0	0	0	0	0	0
10/12/2024 20:28	45901	AUBU_T1	0	0	0	0	0	0	0.89	0.91	0	0	0	0	0	0
10/12/2024 20:28	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/12/2024 20:28	59302	MCAL_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
10/12/2024 20:28	65207	PRIN_T4	19	25	6	0.21	0.16	-0.05	0	0	1	1	0	1200	1200	0
10/12/2024 20:28	14802	TREI_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
10/12/2024 20:28	22001	BOHE_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
10/12/2024 20:29	22905	HARW_T1	5	0	-5	0.18	0	-0.18	0	0	0	0	0	0	0	0
10/12/2024 20:29	13302	ORVI_T2	0	0	0	0	0	0	1.34	1.43	0	0	0	0	0	0
10/12/2024 20:29	43301	WATS_T2	0	1	1	0	0.1	0.1	-0.88	-0.88	1	1	0	900	900	0
10/12/2024 20:29	45902	AUBU_T1	0	0	0	0	0	0	-0.08	-0.11	3	3	0	1800	1800	0
10/12/2024 20:29	64403	LAND_T1	1	19	18	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/12/2024 20:29	14802	TREI_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
10/12/2024 20:29	41301	FISH_T1	2	2	0	1.3	1.05	-0.25	0	0	0	0	0	0	0	0
10/12/2024 20:29	64401	LAND_T1	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
10/12/2024 20:29	48302	ORWI_T2	2	2	0	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
10/12/2024 20:29	67602	WARW_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
10/12/2024 20:29	66303	MCGO_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
10/12/2024 20:29	22901	HARW_T1	0	0	0	0	0	0	-0.77	-0.82	1	1	0	1200	1200	0
10/12/2024 20:29	22903	HARW_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
10/12/2024 20:29	66301	MCGO_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
10/12/2024 20:29	23401	HONE_T2	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
10/12/2024 20:30	53903	HALI_T2	2	2	0	1.15	1.65	0.5	0	0	0	0	0	0	0	0
10/12/2024 20:30	64403	LAND_T1	1	22	21	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/12/2024 20:30	63501	HEID_TBK1-2	37	38	1	0.44	0.52	0.08	-0.87	-0.88	2	2	0	1800	1800	0
10/12/2024 20:30	21206	ECAR_T2	1	1	0	6.9	7.2	0.3	1.2	1.29	0	0	0	0	0	0
10/12/2024 20:30	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/12/2024 20:30	66504	SMAN_T2	0	0	0	0	0	0	-1.74	-1.62	0	0	0	0	0	0
10/12/2024 20:30	60801	BUCK_T1	0	2	2	0	0.1	0.1	-0.91	-0.92	1	1	0	600	600	0
10/12/2024 20:30	60201	ATGL_T2	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
10/12/2024 20:30	60301	TWVA_T2	0	0	0	0	0	0	-2.18	-2.15	2	2	0	1800	1800	0
10/12/2024 20:30	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
10/12/2024 20:30	64401	LAND_T1	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
10/12/2024 20:30	42601	TUSC_T1	0	1	1	0	0.2	0.2	-0.67	-0.66	2	2	0	1800	1800	0
10/12/2024 20:30	53902	HALI_T2	1	1	0	5.7	6	0.3	-1.73	-1.72	0	0	0	0	0	0
10/12/2024 20:31	53901	HALI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 20:31	50201	HARR_T3	1	1	0	0.9	1	0.1	0	0	1	1	0	1200	1200	0
10/12/2024 20:31	15203	SFAR_T2	0	16	16	0	0.11	0.11	-1.31	-1.34	0	0	0	0	0	0
10/12/2024 20:31	50105	HARR_T3	6	6	0	5.8	5.67	-0.13	0	0	0	0	0	0	0	0
10/12/2024 20:31	55002	NEWP_T1	6	6	0	0.87	0.98	0.11	-0.26	-0.27	0	0	0	0	0	0
10/12/2024 20:31	50107	HARR_T3	1	2	1	6.7	6.8	0.1	0	0	0	0	0	0	0	0
10/12/2024 20:31	50103	HARR_T3	1	2	1	0.3	0.75	0.45	0	0	0	0	0	0	0	0
10/12/2024 20:31	53902	HALI_T2	1	1	0	5.7	6	0.3	0	0	0	0	0	0	0	0
10/12/2024 20:31	53903	HALI_T2	2	2	0	1.15	1.65	0.5	0	0	0	0	0	0	0	0
10/12/2024 20:31	24702	FLND_T2	0	0	0	0	0	0	-0.8	-0.6	1	1	0	1200	1200	0
10/12/2024 20:31	50202	HARR_T3	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/12/2024 20:31	63501	HEID_TBK1-2	37	38	1	0.44	0.52	0.08	-0.44	-0.44	1	1	0	900	900	0
10/12/2024 20:32	43301	WATS_T2	1	1	0	0.1	0.8	0.7	-0.88	-0.88	1	1	0	900	900	0
10/12/2024 20:32	14802	TREI_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
10/12/2024 20:32	20403	ASHF_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
10/12/2024 20:32	66202	SISP_T2	0	0	0	0	0	0	-0.84	-0.89	0	0	0	0	0	0
10/12/2024 20:32	65206	PRIN_T4	1	23	22	0.1	0.1	0	0	0	0	0	0	0	0	0
10/12/2024 20:32	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 20:32	14204	EALL_T2	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
10/12/2024 20:32	65503	MOJO_T2	0	0	0	0	0	0	-0.38	-0.43	0	0	0	0	0	0
10/12/2024 20:32	45501	DERR_T2	1	1	0	0.1	0.2	0.1	0.03	0.06	1	1	0	600	600	0
10/12/2024 20:32	63802	HEMP_T1	0	0	0	0	0	0	0.17	0.2	0	0	0	0	0	0
10/12/2024 20:32	63801	HEMP_T1	1	72	71	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/12/2024 20:32	63804	HEMP_T1	4	5	1	1.38	1.16	-0.22	0	0	0	0	0	0	0	0
10/12/2024 20:32	20401	ASHF_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
10/12/2024 20:32	65207	PRIN_T4	6	37	31	0.35	0.16	-0.19	0	0	0	0	0	0	0	0
10/12/2024 20:32	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 20:32	63803	HEMP_T1	3	50	47	0.1	0.16	0.06	0	0	0	0	0	0	0	0
10/12/2024 20:33	59301	MCAL_T1	2	2	0	1	1.2	0.2	-1.94	-1.96	1	1	0	600	600	0
10/12/2024 20:33	59302	MCAL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/12/2024 20:33	45902	AUBU_T1	0	0	0	0	0	0	-0.03	-0.04	1	1	0	600	600	0
10/12/2024 20:33	63802	HEMP_T1	0	0	0	0	0	0	0.34	0.4	0	0	0	0	0	0
10/12/2024 20:33	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
10/12/2024 20:33	16102	BING_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
10/12/2024 20:33	60801	BUCK_T1	0	2	2	0	0.1	0.1	-0.91	-0.92	1	1	0	600	600	0
10/12/2024 20:33	55001	NEWP_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
10/12/2024 20:33	63803	HEMP_T1	3	50	47	0.1	0.16	0.06	0	0	0	0	0	0	0	0
10/12/2024 20:33	63804	HEMP_T1	4	5	1	1.38	1.16	-0.22	0	0	0	0	0	0	0	0
10/12/2024 20:33	66504	SMAN_T2	0	0	0	0	0	0	-0.58	-0.54	0	0	0	0	0	0
10/12/2024 20:33	63501	HEID_TBK1-2	37	38	1	0.44	0.52	0.08	-0.44	-0.44	1	1	0	900	900	0
10/12/2024 20:33	55002	NEWP_T1	6	6	0	0.87	0.98	0.11	0	0	0	0	0	0	0	0
10/12/2024 20:33	63801	HEMP_T1	1	72	71	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/12/2024 20:33	20105	AVOC_T1	0	12	12	0	0.11	0.11	0	0	0	0	0	0	0	0
10/12/2024 20:33	11202	ELHE_T2	0	0	0	0	0	0	0.46	0.48	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/12/2024 20:33	16103	BING_T2	0	0	0	0	0	0	-1.1	-1.06	2	2	0	1500	1500	0
10/12/2024 20:33	24701	FLND_T2	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
10/12/2024 20:33	20103	AVOC_T1	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
10/12/2024 20:34	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
10/12/2024 20:34	63803	HEMP_T1	3	50	47	0.1	0.16	0.06	0	0	0	0	0	0	0	0
10/12/2024 20:34	65205	PRIN_T1	19	47	28	0.22	0.24	0.02	0	0	0	0	0	0	0	0
10/12/2024 20:34	63804	HEMP_T1	4	5	1	1.38	1.16	-0.22	0	0	0	0	0	0	0	0
10/12/2024 20:34	44904	SCOT_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
10/12/2024 20:34	67201	TEHI_T1	1	11	10	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/12/2024 20:34	63801	HEMP_T1	1	72	71	0.1	0.14	0.04	-0.1	-0.38	0	0	0	0	0	0
10/12/2024 20:34	63501	HEID_TBK1-2	37	38	1	0.44	0.52	0.08	-0.44	-0.44	1	1	0	900	900	0
10/12/2024 20:34	67203	TEHI_T1	0	0	0	0	0	0	1.04	1.1	1	1	0	900	900	0
10/12/2024 20:34	44201	POIN_T1	0	18	18	0	0.12	0.12	-1.75	-1.83	1	1	0	1200	1200	0
10/12/2024 20:34	67602	WARW_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
10/12/2024 20:34	46203	DANV_T2	0	0	0	0	0	0	-2.18	-2.19	0	0	0	0	0	0
10/12/2024 20:34	15203	SFAR_T2	0	16	16	0	0.11	0.11	-1.31	-1.34	0	0	0	0	0	0
10/12/2024 20:34	60404	DILL_T2	0	2	2	0	1.5	1.5	-0.71	-0.71	1	1	0	1200	1200	0
10/12/2024 20:35	53902	HALI_T2	1	1	0	5.7	6	0.3	-1.73	-1.72	0	0	0	0	0	0
10/12/2024 20:35	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
10/12/2024 20:35	10801	CHHI_T1	0	0	0	0	0	0	-1.51	-1.53	2	2	0	1500	1500	0
10/12/2024 20:35	44502	HAMI_T2	1	1	0	2.7	3	0.3	0	0	0	0	0	0	0	0
10/12/2024 20:35	64403	LAND_T1	1	22	21	0.1	0.13	0.03	-2.04	-2	1	1	0	900	900	0
10/12/2024 20:35	46203	DANV_T2	0	0	0	0	0	0	-2.18	-2.19	0	0	0	0	0	0
10/12/2024 20:35	20603	GRWO_T2	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
10/12/2024 20:35	45902	AUBU_T1	0	0	0	0	0	0	-0.03	-0.04	1	1	0	600	600	0
10/12/2024 20:35	44202	POIN_T2	0	0	0	0	0	0	-1.04	-1.07	1	1	0	1200	1200	0
10/12/2024 20:35	53903	HALI_T2	2	2	0	1.15	1.65	0.5	0	0	0	0	0	0	0	0
10/12/2024 20:35	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/12/2024 20:35	44201	POIN_T1	0	18	18	0	0.12	0.12	-1.75	-1.83	1	1	0	1200	1200	0
10/12/2024 20:35	44505	HAMI_T2	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
10/12/2024 20:35	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 20:36	58401	MORO_T1	0	0	0	0	0	0	-1.23	-1.26	1	1	0	600	600	0
10/12/2024 20:36	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 20:36	50103	HARR_T3	1	2	1	0.3	0.75	0.45	0	0	0	0	0	0	0	0
10/12/2024 20:36	43801	SWIL_T1	2	2	0	3.25	3.2	-0.05	0	0	0	0	0	0	0	0
10/12/2024 20:36	59301	MCAL_T1	2	2	0	1	1.2	0.2	-1.94	-1.96	1	1	0	600	600	0
10/12/2024 20:36	50107	HARR_T3	1	2	1	6.7	6.8	0.1	0	0	0	0	0	0	0	0
10/12/2024 20:36	45501	DERR_T2	1	1	0	0.1	0.2	0.1	0.06	0.01	1	1	0	600	600	0
10/12/2024 20:36	59302	MCAL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/12/2024 20:36	50105	HARR_T3	6	0	0	5.8	5.67	-0.13	0	0	0	0	0	0	0	0
10/12/2024 20:36	43802	SWIL_T1	0	0	0	0	0	0	-0.16	-0.15	1	1	0	600	600	0
10/12/2024 20:36	64305	LINC_T1	0	0	0	0	0	0	-0.69	-0.65	0	0	0	0	0	0
10/12/2024 20:36	50202	HARR_T3	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/12/2024 20:36	50201	HARR_T3	1	1	0	0.9	1	0.1	0	0	1	1	0	1200	1200	0
10/12/2024 20:36	14802	TREI_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
10/12/2024 20:36	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 20:37	63804	HEMP_T1	4	5	1	1.38	1.16	-0.22	0	0	0	0	0	0	0	0
10/12/2024 20:37	63801	HEMP_T1	1	72	71	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/12/2024 20:37	44201	POIN_T1	0	18	18	0	0.12	0.12	-1.83	-1.86	1	1	0	1200	1200	0
10/12/2024 20:37	59301	MCAL_T1	2	2	0	1	1.2	0.2	-1.96	-1.97	1	1	0	600	600	0
10/12/2024 20:37	53102	WTWN_T1	0	0	0	0	0	0	-1.1	-1.14	0	0	0	0	0	0
10/12/2024 20:37	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
10/12/2024 20:37	41902	REED_T1	0	0	0	0	0	0	0.67	0.72	0	0	0	0	0	0
10/12/2024 20:37	66505	SMAN_T2	0	0	0	0	0	0	0.14	0.04	1	1	0	900	900	0
10/12/2024 20:37	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 20:37	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 20:37	59302	MCAL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/12/2024 20:37	20401	ASHF_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
10/12/2024 20:37	63802	HEMP_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
10/12/2024 20:37	44202	POIN_T2	0	0	0	0	0	0	-1.07	-1.06	1	1	0	1200	1200	0
10/12/2024 20:37	44801	EDAN_T2	60	88	28	0.23	0.24	0.01	-3.52	-3.52	0	0	0	0	0	0
10/12/2024 20:37	63803	HEMP_T1	3	50	47	0.1	0.16	0.06	0.47	0.46	0	0	0	0	0	0
10/12/2024 20:37	20403	ASHF_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
10/12/2024 20:37	43301	WATS_T2	1	1	0	0.1	0.8	0.7	-0.88	-0.9	1	1	0	900	900	0
10/12/2024 20:38	66303	MCGO_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
10/12/2024 20:38	46801	HEPB_T2	2	2	0	0.3	0.25	-0.05	0.46	0.45	0	0	0	0	0	0
10/12/2024 20:38	53902	HALI_T2	1	1	0	5.7	6	0.3	-1.72	-1.78	0	0	0	0	0	0
10/12/2024 20:38	66302	MCGO_T2	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
10/12/2024 20:38	53903	HALI_T2	2	2	0	1.15	1.65	0.5	0	0	0	0	0	0	0	0
10/12/2024 20:38	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.61	0	0	0	0	0	0
10/12/2024 20:38	63801	HEMP_T1	1	72	71	0.1	0.14	0.04	-0.38	-0.4	0	0	0	0	0	0
10/12/2024 20:38	63803	HEMP_T1	3	50	47	0.1	0.16	0.06	0	0	0	0	0	0	0	0
10/12/2024 20:38	67605	WARW_T1	8	20	12	0.48	0.6	0.12	-1.22	-1.25	0	0	0	0	0	0
10/12/2024 20:38	63804	HEMP_T1	4	5	1	1.38	1.16	-0.22	0	0	0	0	0	0	0	0
10/12/2024 20:38	67402	WAKE_T2	0	0	0	0	0	0	-0.48	-0.47	1	1	0	600	600	0
10/12/2024 20:39	58402	MORO_T1	0	0	0	0	0	0	-0.54	0.06	2	1	-1	1500	900	-600
10/12/2024 20:39	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 20:39	40601	PIGR_T1	5	12	7	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/12/2024 20:39	44202	POIN_T2	0	0	0	0	0	0	-1.07	-1.06	1	1	0	1200	1200	0
10/12/2024 20:39	40602	PIGR_T1	1	1	0	2.3	1.7	-0.6	0	0	0	0	0	0	0	0
10/12/2024 20:39	63801	HEMP_T1	1	72	71	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/12/2024 20:39	63803	HEMP_T1	3	50	47	0.1	0.16	0.06	0	0	0	0	0	0	0	0
10/12/2024 20:39	63804	HEMP_T1	4	5	1	1.38	1.16	-0.22	0.82	0.77	0	0	0	0	0	0
10/12/2024 20:40	44201	POIN_T1	0	18	18	0	0.12	0.12	-1.83	-1.86	1	1	0	1200	1200	0
10/12/2024 20:40	43301	WATS_T2	1	1	0	0.1	0.8	0.7	-0.88	-0.9	1	1	0	900	900	0
10/12/2024 20:40	63501	HEID_TBK1-2	37	38	1	0.44	0.52	0.08	-0.44	-0.47	1	1	0	900	900	0
10/12/2024 20:41	67201	TEHI_T1	1	11	10	0.1	0.13	0.03	0.3	0.33	0	0	0	0	0	0
10/12/2024 20:41	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 20:41	59301	MCAL_T1	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
10/12/2024 20:41	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.29	1	1	0	600	600	0
10/12/2024 20:41	65502	MOJO_T2	0	0	0	0	0	0	-1.14	-1.22	0	0	0	0	0	0
10/12/2024 20:41	41301	FISH_T1	2	2	0	0.9	1.25	0.35	-0.23	-0.23	0	0	0	0	0	0
10/12/2024 20:41	59302	MCAL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/12/2024 20:42	44502	HAMI_T2	1	1	0	2.7	3	0.3	0	0	0	0	0	0	0	0
10/12/2024 20:42	63501	HEID_TBK1-2	37	38	1	0.44	0.52	0.08	-0.44	-0.47	1	1	0	900	900	0
10/12/2024 20:42	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.29	1	1	0	600	600	0
10/12/2024 20:42	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 20:42	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 20:43	64202	KINZ_T1	34	36	2	0.33	0.36	0.03	0	0	0	0	0	0	0	0
10/12/2024 20:43	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 20:43	64203	KINZ_T1	82	95	13	0.31	0.33	0.02	-0.49	-0.47	1	1	0	600	600	0
10/12/2024 20:43	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.29	1	1	0	600	600	0
10/12/2024 20:43	64201	KINZ_T1	24	23	-1	0.36	0.38	0.02	0	0	0	0	0	0	0	0
10/12/2024 20:43	64204	KINZ_T1	51	146	95	0.45	0.28	-0.17	0	0	0	0	0	0	0	0
10/12/2024 20:44	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/12/2024 20:44	44201	POIN_T1	0	18	18	0	0.12	0.12	-1.83	-1.86	1	1	0	1200	1200	0
10/12/2024 21:34	67402	WAKE_T2	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
10/12/2024 21:41	10801	CHHI_T1	0	0	0	0	0	0	-1.72	-1.71	2	2	0	1500	1500	0
10/12/2024 22:04	50201	HARR_T3	1	1	0	1.1	1.1	0	0	0	1	1	0	1200	1200	0
10/12/2024 22:04	50105	HARR_T3	6	6	0	5.47	5.55	0.08	0	0	0	0	0	0	0	0
10/12/2024 22:04	50103	HARR_T3	2	2	0	0.55	0.8	0.25	0	0	0	0	0	0	0	0
10/12/2024 22:04	50202	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/12/2024 22:04	50107	HARR_T3	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
10/13/2024 4:14	53901	HALI_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
10/13/2024 4:14	53903	HALI_T2	2	2	0	1.6	1.6	0	0	0	0	0	0	0	0	0
10/13/2024 4:14	53902	HALI_T2	4	3	-1	1.8	2.37	0.57	-1.98	-1.99	0	0	0	0	0	0
10/13/2024 8:09	60801	BUCK_T1	22	32	10	0.13	0.16	0.03	-0.96	-0.95	1	1	0	600	600	0
10/13/2024 8:31	64201	KINZ_T1	1	5	4	0.4	0.22	-0.18	0	0	0	0	0	0	0	0
10/13/2024 8:31	64203	KINZ_T1	0	0	0	0	0	0	-0.59	-0.59	1	1	0	600	600	0
10/13/2024 8:31	64202	KINZ_T1	3	3	0	0.3	0.47	0.17	0	0	0	0	0	0	0	0
10/13/2024 8:31	64204	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
10/13/2024 8:32	64202	KINZ_T1	3	3	0	0.3	0.47	0.17	0	0	0	0	0	0	0	0
10/13/2024 8:32	64204	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
10/13/2024 8:32	64201	KINZ_T1	1	5	4	0.4	0.22	-0.18	-0.83	-0.92	2	2	0	1200	1200	0
10/13/2024 8:33	64202	KINZ_T1	3	3	0	0.3	0.47	0.17	0	0	0	0	0	0	0	0
10/13/2024 8:33	64201	KINZ_T1	1	5	4	0.4	0.22	-0.18	0	0	0	0	0	0	0	0
10/13/2024 8:33	64204	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
10/13/2024 8:34	64202	KINZ_T1	3	3	0	0.3	0.47	0.17	0	0	0	0	0	0	0	0
10/13/2024 8:34	64201	KINZ_T1	1	5	4	0.4	0.22	-0.18	-1.66	-1.84	4	4	0	2400	2400	0
10/13/2024 8:34	64204	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
10/13/2024 8:35	13303	ORVI_T1	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
10/13/2024 8:36	50502	MECH_T1	1	1	0	2.4	2.4	0	1471.24	1471.26	2	2	0	2100	2100	0
10/13/2024 8:36	50501	MECH_T1	4	4	0	1.3	1.43	0.13	0	0	0	0	0	0	0	0
10/13/2024 8:36	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 8:36	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 8:44	63501	HEID_TBK1-2	1	1	0	0.4	0.5	0.1	0.37	0.28	0	0	0	0	0	0
10/13/2024 8:44	24102	EHAZ_T1	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
10/13/2024 8:44	24105	EHAZ_T1	4	4	0	6.45	6.53	0.08	0	0	0	0	0	0	0	0
10/13/2024 8:54	59402	RFLD_T2	0	0	0	0	0	0	-0.91	-0.92	1	1	0	450	450	0
10/13/2024 8:57	61304	EARL_T1	0	0	0	0	0	0	-1.04	-1.02	1	1	0	600	600	0
10/13/2024 8:57	61302	EARL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/13/2024 8:58	12206	FOGE_T2	0	0	0	0	0	0	-0.84	-0.91	2	2	0	2100	2100	0
10/13/2024 9:01	12206	FOGE_T2	0	0	0	0	0	0	-0.84	-0.91	2	2	0	2100	2100	0
10/13/2024 9:08	60801	BUCK_T1	27	25	-2	0.17	0.17	0	0	0	0	0	0	0	0	0
10/13/2024 9:15	63501	HEID_TBK1-2	1	1	0	0.5	1	0.5	0.4	0.38	0	0	0	0	0	0
10/13/2024 9:16	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 9:16	63501	HEID_TBK1-2	1	1	0	0.5	1	0.5	0.4	0.38	0	0	0	0	0	0
10/13/2024 9:18	58401	MORO_T1	0	0	0	0	0	0	-1.3	-1.32	1	1	0	600	600	0
10/13/2024 9:18	63501	HEID_TBK1-2	1	1	0	0.5	1	0.5	0.4	0.38	0	0	0	0	0	0
10/13/2024 9:18	54506	ENOL_T2	0	0	0	0	0	0	0.45	0.35	1	1	0	600	600	0
10/13/2024 9:19	58401	MORO_T1	0	0	0	0	0	0	-1.3	-1.32	1	1	0	600	600	0
10/13/2024 9:20	50501	MECH_T1	4	4	0	1.43	1.53	0.1	0	0	0	0	0	0	0	0
10/13/2024 9:20	50502	MECH_T1	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
10/13/2024 9:20	50505	MECH_T1	0	0	0	0	0	0	-1.07	-1.04	0	0	0	0	0	0
10/13/2024 9:21	50502	MECH_T1	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
10/13/2024 9:21	50501	MECH_T1	4	4	0	1.43	1.53	0.1	-2.02	-2.03	0	0	0	0	0	0
10/13/2024 9:30	61801	EELI_T2	0	0	0	0	0	0	-0.94	-1	1	1	0	600	600	0
10/13/2024 9:33	50502	MECH_T1	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
10/13/2024 9:33	50501	MECH_T1	4	4	0	1.53	1.33	-0.2	-2.03	-1.92	0	0	0	0	0	0
10/13/2024 9:40	64602	LEOL_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
10/13/2024 9:42	53101	WTWN_T1	0	5	5	0	0.24	0.24	0	0	0	0	0	0	0	0
10/13/2024 9:42	53102	WTWN_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/13/2024 9:43	53102	WTWN_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/13/2024 9:43	53101	WTWN_T1	0	5	5	0	0.24	0.24	0	0	0	0	0	0	0	0
10/13/2024 9:43	45902	AUBU_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/13/2024 9:43	45901	AUBU_T1	0	0	0	0	0	0	0.88	0.85	0	0	0	0	0	0
10/13/2024 9:45	61801	EELI_T2	0	0	0	0	0	0	-1	-1.02	1	1	0	600	600	0
10/13/2024 9:50	65601	QVIL_T2	1	2	1	0.2	0.1	-0.1	-1.2	-1.18	1	1	0	900	900	0
10/13/2024 9:50	65602	QVIL_T2	44	44	0	1.16	0.93	-0.23	0	0	0	0	0	0	0	0
10/13/2024 9:51	65602	QVIL_T2	44	44	0	1.16	0.93	-0.23	0	0	0	0	0	0	0	0
10/13/2024 9:51	65601	QVIL_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/13/2024 9:55	53102	WTWN_T1	3	1	-2	0.13	0.3	0.17	-1.06	-1.08	0	0	0	0	0	0
10/13/2024 9:55	53101	WTWN_T1	1	6	5	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/13/2024 9:55	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 9:57	53102	WTWN_T1	3	1	-2	0.13	0.3	0.17	-0.53	-0.54	0	0	0	0	0	0
10/13/2024 9:57	53101	WTWN_T1	1	6	5	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/13/2024 9:58	45901	AUBU_T1	0	0	0	0	0	0	0.85	0.87	0	0	0	0	0	0
10/13/2024 9:58	45902	AUBU_T1	1	1	0	0.5	0.5	0	-0.17	-0.05	2	2	0	1200	1200	0
10/13/2024 10:00	65601	QVIL_T2	2	0	-2	0.1	0	-0.1	-1.18	-1.16	1	1	0	900	900	0
10/13/2024 10:00	28102	TWLA_T2	1	1	0	0.1	0.1	0	0.21	0.21	0	0	0	0	0	0
10/13/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	0.48	0.51	0	0	0	0	0	0
10/13/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.32	0.35	0	0	0	0	0	0
10/13/2024 10:00	41303	FISH_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
10/13/2024 10:00	65602	QVIL_T2	43	44	1	0.93	0.81	-0.12	0	0	0	0	0	0	0	0
10/13/2024 10:00	41902	REED_T1	0	0	0	0	0	0	0.68	0.74	0	0	0	0	0	0
10/13/2024 10:00	50502	MECH_T1	1	1	0	2.1	1.9	-0.2	1471.61	1471.64	2	2	0	2100	2100	0
10/13/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
10/13/2024 10:00	50107	HARR_T3	1	1	0	8.6	7.2	-1.4	0	0	0	0	0	0	0	0
10/13/2024 10:00	50201	HARR_T3	2	2	0	4.8	4.9	0.1	0	0	1	1	0	1200	1200	0
10/13/2024 10:00	66303	MCGO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/13/2024 10:00	50501	MECH_T1	4	4	0	1.33	0.95	-0.38	-1.95	-1.66	0	0	0	0	0	0
10/13/2024 10:00	15203	SFAR_T2	1	3	2	0.1	0.53	0.43	-1.4	-1.35	0	0	0	0	0	0
10/13/2024 10:00	41301	FISH_T1	2	3	1	1.3	1.57	0.27	-0.21	-0.21	0	0	0	0	0	0
10/13/2024 10:00	66302	MCGO_T2	0	0	0	0	0	0	-1.02	-0.99	0	0	0	0	0	0
10/13/2024 10:00	50105	HARR_T3	6	6	0	6.43	6.28	-0.15	0	0	0	0	0	0	0	0
10/13/2024 10:08	67503	WEWI_T2	1	1	0	7.2	7.2	0	-0.29	-0.28	0	0	0	0	0	0
10/13/2024 10:08	15203	SFAR_T2	1	3	2	0.1	0.53	0.43	-1.35	-1.36	0	0	0	0	0	0
10/13/2024 10:10	15203	SFAR_T2	1	3	2	0.1	0.53	0.43	-1.35	-1.36	0	0	0	0	0	0
10/13/2024 10:11	60201	ATGL_T2	105	80	-25	0.41	0.23	-0.18	-0.48	-0.48	0	0	0	0	0	0
10/13/2024 10:12	64602	LEOL_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
10/13/2024 10:12	46506	LOHA_T1	4	3	-1	3.13	3.9	0.77	0	0	0	0	0	0	0	0
10/13/2024 10:12	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
10/13/2024 10:14	48302	ORWI_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
10/13/2024 10:14	45902	AUBU_T1	1	1	0	0.5	0.5	0	-0.1	-0.11	4	4	0	2400	2400	0
10/13/2024 10:20	60801	BUCK_T1	3	3	0	0.17	0.23	0.06	-0.88	-0.86	1	1	0	600	600	0
10/13/2024 10:21	13303	ORVI_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
10/13/2024 10:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 10:21	60801	BUCK_T1	3	3	0	0.17	0.23	0.06	-0.86	-0.86	1	1	0	600	600	0
10/13/2024 10:22	65601	QVIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/13/2024 10:22	65602	QVIL_T2	43	44	1	0.82	0.85	0.03	0	0	0	0	0	0	0	0
10/13/2024 10:31	24105	EHAZ_T1	4	5	1	6.13	6.03	-0.1	-2.11	-2.13	1	1	0	1200	1200	0
10/13/2024 10:31	24101	EHAZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/13/2024 10:31	24102	EHAZ_T1	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
10/13/2024 10:31	63501	HEID_TBK1-2	1	1	0	1.2	1.2	0	0.42	0.48	0	0	0	0	0	0
10/13/2024 10:35	63501	HEID_TBK1-2	1	1	0	1.2	1.2	0	0.42	0.48	0	0	0	0	0	0
10/13/2024 10:36	66504	SMAN_T2	0	0	0	0	0	0	-0.65	-0.58	0	0	0	0	0	0
10/13/2024 10:41	66504	SMAN_T2	0	0	0	0	0	0	-1.31	-1.16	0	0	0	0	0	0
10/13/2024 10:44	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 10:45	41301	FISH_T1	4	3	-1	1.35	1.73	0.38	0	0	0	0	0	0	0	0
10/13/2024 10:45	41305	FISH_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
10/13/2024 10:46	10801	CHHI_T1	0	6	6	0	0.58	0.58	-1.64	-1.64	2	2	0	1500	1500	0
10/13/2024 10:47	22903	HARW_T1	9	1	-8	0.18	0	-0.18	0	0	0	0	0	0	0	0
10/13/2024 10:47	41301	FISH_T1	4	3	-1	1.35	1.73	0.38	-0.36	-0.3	0	0	0	0	0	0
10/13/2024 10:47	22901	HARW_T1	0	0	0	0	0	0	-0.76	-0.67	1	1	0	1200	1200	0
10/13/2024 10:47	41305	FISH_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
10/13/2024 10:47	22904	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 10:54	42601	TUSC_T1	0	1	1	0	0.1	0.1	-0.7	-0.62	2	2	0	1800	1800	0
10/13/2024 10:54	66505	SMAN_T2	0	0	0	0	0	0	0.43	0.38	2	2	0	1100	1100	0
10/13/2024 10:57	42601	TUSC_T1	0	1	1	0	0.1	0.1	-0.7	-0.62	2	2	0	1800	1800	0
10/13/2024 10:58	42601	TUSC_T1	0	1	1	0	0.1	0.1	-0.7	-0.62	2	2	0	1800	1800	0
10/13/2024 11:01	46602	LACR_T1	0	0	0	0	0	0	-1.05	-0.95	0	0	0	0	0	0
10/13/2024 11:02	64305	LINC_T1	0	0	0	0	0	0	-0.63	-0.58	0	0	0	0	0	0
10/13/2024 11:07	54501	ENOL_T2	0	0	0	0	0	0	-0.54	-0.55	1	1	0	600	600	0
10/13/2024 11:10	53101	WTWN_T1	3	7	4	0.37	0.49	0.12	0	0	0	0	0	0	0	0
10/13/2024 11:10	53102	WTWN_T1	1	2	1	0.3	0.35	0.05	-0.53	-0.55	0	0	0	0	0	0
10/13/2024 11:12	53102	WTWN_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/13/2024 11:12	53101	WTWN_T1	3	7	4	0.37	0.49	0.12	0	0	0	0	0	0	0	0
10/13/2024 11:13	55105	WERT_T1	0	0	0	0	0	0	-0.69	-0.7	1	1	0	900	900	0
10/13/2024 11:13	53102	WTWN_T1	1	2	1	0.3	0.35	0.05	-0.53	-0.55	0	0	0	0	0	0
10/13/2024 11:13	53101	WTWN_T1	3	7	4	0.37	0.49	0.12	0	0	0	0	0	0	0	0
10/13/2024 11:14	53102	WTWN_T1	1	2	1	0.3	0.35	0.05	-0.53	-0.55	0	0	0	0	0	0
10/13/2024 11:14	53101	WTWN_T1	3	7	4	0.37	0.49	0.12	0	0	0	0	0	0	0	0
10/13/2024 11:14	20603	GRWO_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
10/13/2024 11:16	63801	HEMP_T1	1	2	1	0.4	0.25	-0.15	-0.24	-0.11	0	0	0	0	0	0
10/13/2024 11:16	63804	HEMP_T1	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
10/13/2024 11:16	40602	PIGR_T1	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
10/13/2024 11:17	20603	GRWO_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
10/13/2024 11:18	13503	MCMI_T2	5	4	-1	0.24	0.25	0.01	-0.93	-0.93	0	0	0	0	0	0
10/13/2024 11:19	61001	DONV_T1	2	2	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
10/13/2024 11:19	64203	KINZ_T1	0	0	0	0	0	0	-0.43	-0.46	1	1	0	600	600	0
10/13/2024 11:19	64204	KINZ_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/13/2024 11:21	65503	MOJO_T2	2	1	-1	0.2	0.1	-0.1	-1.08	-1.06	1	1	0	900	900	0
10/13/2024 11:21	13503	MCMI_T2	5	4	-1	0.24	0.25	0.01	-0.93	-0.92	0	0	0	0	0	0
10/13/2024 11:22	66502	SMAN_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
10/13/2024 11:26	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
10/13/2024 11:26	67605	WARW_T1	6	11	5	0.35	0.36	0.01	-1.15	-1.15	0	0	0	0	0	0
10/13/2024 11:29	44301	BEAV_T2	5	1	-4	0.2	0.3	0.1	-0.56	-0.55	1	1	0	600	600	0
10/13/2024 11:30	10801	CHHI_T1	6	8	2	0.38	0.54	0.16	-1.64	-1.65	2	2	0	1500	1500	0
10/13/2024 11:44	43802	SWIL_T1	0	0	0	0	0	0	-0.08	-0.07	1	1	0	600	600	0
10/13/2024 11:44	43801	SWIL_T1	2	2	0	3.2	3.15	-0.05	0	0	0	0	0	0	0	0
10/13/2024 11:58	45901	AUBU_T1	0	1	1	0	0.1	0.1	0.96	0.9	0	0	0	0	0	0
10/13/2024 11:58	45902	AUBU_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/13/2024 11:59	45902	AUBU_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/13/2024 11:59	45501	DERR_T2	0	0	0	0	0	0	0.35	0.25	1	1	0	600	600	0
10/13/2024 11:59	45901	AUBU_T1	0	1	1	0	0.1	0.1	0.96	0.9	0	0	0	0	0	0
10/13/2024 12:00	45501	DERR_T2	0	0	0	0	0	0	0.35	0.25	1	1	0	600	600	0
10/13/2024 12:01	45902	AUBU_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
10/13/2024 12:01	45901	AUBU_T1	1	1	0	0.1	0.2	0.1	0.96	0.9	0	0	0	0	0	0
10/13/2024 12:02	16102	BING_T2	0	5	5	0	0.38	0.38	0	0	0	0	0	0	0	0
10/13/2024 12:02	16101	BING_T2	1	2	1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
10/13/2024 12:02	16103	BING_T2	1	1	0	0.3	0.3	0	-0.99	-0.96	2	2	0	1500	1500	0
10/13/2024 12:02	13503	MCMI_T2	2	1	-1	0.25	0.2	-0.05	-0.92	-0.93	0	0	0	0	0	0
10/13/2024 12:04	45902	AUBU_T1	1	1	0	0.8	0.6	-0.2	-0.01	-0.04	1	1	0	600	600	0
10/13/2024 12:04	45901	AUBU_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/13/2024 12:19	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 12:21	58401	MORO_T1	0	0	0	0	0	0	-2.42	-2.25	2	2	0	1200	1200	0
10/13/2024 12:21	25402	LAHA_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
10/13/2024 12:22	58401	MORO_T1	0	0	0	0	0	0	-1.13	-1.16	1	1	0	600	600	0
10/13/2024 12:23	58401	MORO_T1	0	0	0	0	0	0	-1.13	-1.16	1	1	0	600	600	0
10/13/2024 12:24	58402	MORO_T1	0	0	0	0	0	0	0.05	0.02	1	1	0	900	900	0
10/13/2024 12:26	55105	WERT_T1	0	0	0	0	0	0	-0.66	-0.64	1	1	0	900	900	0
10/13/2024 12:29	24702	FLND_T2	0	2	2	0	0.4	0.4	0.56	0.51	1	1	0	1200	1200	0
10/13/2024 12:44	20201	JERM_T1	0	0	0	0	0	0	1.4	1.43	0	0	0	0	0	0
10/13/2024 12:47	44505	HAMI_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
10/13/2024 12:47	44502	HAMI_T2	1	1	0	2.8	2.8	0	0	0	0	0	0	0	0	0
10/13/2024 12:48	61302	EARL_T1	1	3	2	0.8	0.5	-0.3	-0.37	-0.33	2	2	0	1800	1800	0
10/13/2024 12:48	24702	FLND_T2	2	0	-2	0.4	0	-0.4	-0.51	-0.57	1	1	0	1200	1200	0
10/13/2024 12:48	24701	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 12:48	44502	HAMI_T2	1	1	0	2.8	2.8	0	0	0	0	0	0	0	0	0
10/13/2024 12:48	44505	HAMI_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
10/13/2024 12:51	48301	ORWI_T1	2	2	0	4.25	4.1	-0.15	0	0	0	0	0	0	0	0
10/13/2024 12:52	48301	ORWI_T1	2	2	0	4.25	4.1	-0.15	0	0	0	0	0	0	0	0
10/13/2024 12:53	48301	ORWI_T1	2	2	0	4.25	4.1	-0.15	0	0	0	0	0	0	0	0
10/13/2024 13:08	14802	TREI_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
10/13/2024 13:09	14802	TREI_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
10/13/2024 13:09	15703	TANN_T2	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
10/13/2024 13:09	20403	ASHF_T2	0	1	1	0	0.2	0.2	0.08	0.1	0	0	0	0	0	0
10/13/2024 13:09	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/13/2024 13:09	15702	TANN_T2	0	0	0	0	0	0	-0.75	-0.83	0	0	0	0	0	0
10/13/2024 13:10	20403	ASHF_T2	0	1	1	0	0.2	0.2	0.08	0.1	0	0	0	0	0	0
10/13/2024 13:10	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/13/2024 13:23	43301	WATS_T2	0	0	0	0	0	0	-0.84	-0.85	1	1	0	900	900	0
10/13/2024 13:27	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 13:28	45501	DERR_T2	0	1	1	0	0.3	0.3	0.29	0.3	1	1	0	600	600	0
10/13/2024 13:29	45501	DERR_T2	0	1	1	0	0.3	0.3	0.29	0.3	1	1	0	600	600	0
10/13/2024 13:35	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 13:49	13303	ORVI_T1	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
10/13/2024 14:00	60201	ATGL_T2	3	42	39	0.13	0.15	0.02	-0.41	-0.36	0	0	0	0	0	0
10/13/2024 14:03	46801	HEPB_T2	2	2	0	0.35	0.45	0.1	0.5	0.52	0	0	0	0	0	0
10/13/2024 14:07	65206	PRIN_T4	1	2	1	4.2	0	-4.2	0	0	0	0	0	0	0	0
10/13/2024 14:07	65207	PRIN_T4	1	1	0	0.4	0.7	0.3	0	0	2	2	0	1800	1800	0
10/13/2024 14:09	65205	PRIN_T1	1	3	2	1.6	1	-0.6	0	0	0	0	0	0	0	0
10/13/2024 14:16	61801	EELI_T2	0	0	0	0	0	0	-0.55	-0.51	1	1	0	600	600	0
10/13/2024 14:17	63501	HEID_TBK1-2	39	21	-18	0.34	0.2	-0.14	-0.32	-0.38	1	1	0	900	900	0
10/13/2024 14:19	63501	HEID_TBK1-2	39	21	-18	0.34	0.2	-0.14	-0.32	-0.38	1	1	0	900	900	0
10/13/2024 14:21	63501	HEID_TBK1-2	39	21	-18	0.34	0.2	-0.14	-0.38	-0.31	1	1	0	900	900	0
10/13/2024 14:29	61701	ELIZ_T1	2	2	0	3.15	2.55	-0.6	0.06	-0.06	0	0	0	0	0	0
10/13/2024 14:31	61801	EELI_T2	0	0	0	0	0	0	-0.51	-0.57	1	1	0	600	600	0
10/13/2024 14:32	44502	HAMI_T2	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
10/13/2024 14:32	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 14:33	16101	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/13/2024 14:33	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/13/2024 14:33	16103	BING_T2	0	0	0	0	0	0	-0.84	-0.84	2	2	0	1500	1500	0
10/13/2024 14:36	17002	RIRO_T2	1	1	0	1.1	1.1	0	0.35	0.36	0	0	0	0	0	0
10/13/2024 14:39	40101	HUNT_T2	3	3	0	1.23	0	-1.23	0	0	0	0	0	0	0	0
10/13/2024 14:48	65001	NEFF_T2	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/13/2024 14:48	65004	NEFF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/13/2024 14:48	65003	NEFF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/13/2024 14:49	64101	REFR_T1	2	3	1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
10/13/2024 14:50	64101	REFR_T1	2	3	1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
10/13/2024 14:51	64101	REFR_T1	2	3	1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
10/13/2024 14:55	64101	REFR_T1	2	3	1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
10/13/2024 14:56	64101	REFR_T1	2	3	1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
10/13/2024 14:56	60101	COCA_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
10/13/2024 14:57	60101	COCA_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
10/13/2024 14:58	60102	COCA_T1	0	0	0	0	0	0	0.04	0.13	2	2	0	1200	1200	0
10/13/2024 14:58	60101	COCA_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
10/13/2024 15:00	60101	COCA_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
10/13/2024 15:01	60101	COCA_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
10/13/2024 15:15	14204	EALL_T2	0	0	0	0	0	0	-1.11	-0.98	0	0	0	0	0	0
10/13/2024 15:29	21501	CEAV_T2	0	0	0	0	0	0	1.41	1.21	0	0	0	0	0	0
10/13/2024 15:49	63804	HEMP_T1	1	1	0	5.6	5.6	0	1.02	1.02	0	0	0	0	0	0
10/13/2024 15:49	63801	HEMP_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
10/13/2024 15:58	60201	ATGL_T2	34	55	21	0.14	0.17	0.03	-0.37	-0.35	0	0	0	0	0	0
10/13/2024 16:05	59402	RFLD_T2	0	0	0	0	0	0	-0.85	-0.83	1	1	0	450	450	0
10/13/2024 16:21	63501	HEID_TBK1-2	2	1	-1	0.9	1.4	0.5	-0.31	-0.28	1	1	0	900	900	0
10/13/2024 16:23	13905	SEID_T1	0	0	0	0	0	0	0.37	0.45	0	0	0	0	0	0
10/13/2024 16:29	24702	FLND_T2	0	0	0	0	0	0	-0.63	-0.59	1	1	0	1200	1200	0
10/13/2024 16:31	26704	HEML_T2	1	14	13	0.1	0.1	0	-0.84	-0.86	1	1	0	1200	1200	0
10/13/2024 16:48	55407	SHER_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 16:48	55405	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 17:34	50105	HARR_T3	6	6	0	6.65	6.58	-0.07	0	0	0	0	0	0	0	0
10/13/2024 17:34	50201	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/13/2024 17:34	50107	HARR_T3	1	1	0	7.5	7.3	-0.2	0	0	0	0	0	0	0	0
10/13/2024 17:52	60301	TWVA_T2	0	0	0	0	0	0	-1.93	-1.93	2	2	0	1800	1800	0
10/13/2024 18:37	50501	MECH_T1	4	4	0	0.18	0.35	0.17	-0.88	-0.94	0	0	0	0	0	0
10/13/2024 18:37	50502	MECH_T1	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
10/13/2024 19:40	59402	RFLD_T2	0	0	0	0	0	0	-0.84	-0.85	1	1	0	450	450	0
10/13/2024 20:10	20201	JERM_T1	0	0	0	0	0	0	1.26	1.23	0	0	0	0	0	0
10/13/2024 20:14	45501	DERR_T2	0	0	0	0	0	0	0.01	0.02	1	1	0	600	600	0
10/13/2024 20:17	24102	EHAZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/13/2024 20:17	26704	HEML_T2	0	0	0	0	0	0	-0.87	-0.89	1	1	0	1200	1200	0
10/13/2024 20:17	17002	RIRO_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
10/13/2024 20:17	24105	EHAZ_T1	4	4	0	5.85	5.78	-0.07	-2.09	-2.12	1	1	0	1200	1200	0
10/13/2024 20:17	43301	WATS_T2	0	0	0	0	0	0	-0.86	-0.83	1	1	0	900	900	0
10/13/2024 20:18	15203	SFAR_T2	0	0	0	0	0	0	-1.21	-1.15	0	0	0	0	0	0
10/13/2024 20:18	45501	DERR_T2	0	0	0	0	0	0	0.01	0.02	1	1	0	600	600	0
10/13/2024 20:20	24702	FLND_T2	3	6	3	0.17	1.37	1.2	-0.55	-0.63	1	1	0	1200	1200	0
10/13/2024 20:20	44505	HAMI_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
10/13/2024 20:20	44502	HAMI_T2	1	1	0	2.9	3.1	0.2	0	0	0	0	0	0	0	0
10/13/2024 20:20	41301	FISH_T1	3	3	0	1.33	1.43	0.1	-0.2	-0.19	0	0	0	0	0	0
10/13/2024 20:20	20603	GRWO_T2	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
10/13/2024 20:20	20601	GRWO_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/13/2024 20:21	15703	TANN_T2	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
10/13/2024 20:21	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
10/13/2024 20:21	64602	LEOL_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
10/13/2024 20:21	46506	LOHA_T1	3	4	1	2.63	2.73	0.1	0	0	0	0	0	0	0	0
10/13/2024 20:21	42601	TUSC_T1	0	0	0	0	0	0	-0.62	-0.59	2	2	0	1800	1800	0
10/13/2024 20:21	46504	LOHA_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/13/2024 20:21	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
10/13/2024 20:23	46602	LACR_T1	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
10/13/2024 20:23	45901	AUBU_T1	0	0	0	0	0	0	0.88	0.88	0	0	0	0	0	0
10/13/2024 20:23	61701	ELIZ_T1	1	1	0	3.9	3.9	0	0.07	0.32	0	0	0	0	0	0
10/13/2024 20:24	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 20:24	44301	BEAV_T2	0	0	0	0	0	0	-1.14	-1.15	1	1	0	600	600	0
10/13/2024 20:24	48301	ORWI_T1	2	2	0	5.2	5.3	0.1	0	0	1	1	0	900	900	0
10/13/2024 20:24	42601	TUSC_T1	0	0	0	0	0	0	-0.59	-0.65	2	2	0	1800	1800	0
10/13/2024 20:24	44505	HAMI_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
10/13/2024 20:24	25402	LAHA_T2	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
10/13/2024 20:24	15703	TANN_T2	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
10/13/2024 20:24	22901	HARW_T1	0	0	0	0	0	0	-1.95	-2.08	1	1	0	1200	1200	0
10/13/2024 20:24	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
10/13/2024 20:24	44502	HAMI_T2	1	1	0	2.9	3.1	0.2	0	0	0	0	0	0	0	0
10/13/2024 20:24	22903	HARW_T1	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
10/13/2024 20:25	20403	ASHF_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
10/13/2024 20:25	13303	ORVI_T1	0	0	0	0	0	0	0.61	0.57	0	0	0	0	0	0
10/13/2024 20:25	45901	AUBU_T1	0	0	0	0	0	0	0.88	0.88	0	0	0	0	0	0
10/13/2024 20:26	13503	MCMI_T2	1	0	-1	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
10/13/2024 20:26	13303	ORVI_T1	0	0	0	0	0	0	0.61	0.57	0	0	0	0	0	0
10/13/2024 20:26	67603	WARW_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
10/13/2024 20:26	67605	WARW_T1	10	14	4	0.25	0.47	0.22	0	0	0	0	0	0	0	0
10/13/2024 20:26	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 20:27	48301	ORWI_T1	2	2	0	5.2	5.3	0.1	0	0	1	1	0	900	900	0
10/13/2024 20:27	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 20:27	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 20:28	16102	BING_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/13/2024 20:28	63501	HEID_TBK1-2	23	2	-21	0.21	0.4	0.19	-0.31	-0.32	1	1	0	900	900	0
10/13/2024 20:28	66504	SMAN_T2	0	0	0	0	0	0	-3.45	-0.79	2	0	-2	2400	0	-2400
10/13/2024 20:28	21501	CEAV_T2	0	0	0	0	0	0	1.02	0.98	0	0	0	0	0	0
10/13/2024 20:28	41301	FISH_T1	3	3	0	1.33	1.43	0.1	0	0	0	0	0	0	0	0
10/13/2024 20:28	45902	AUBU_T1	0	0	0	0	0	0	-0.08	-0.3	3	3	0	1800	1800	0
10/13/2024 20:28	16103	BING_T2	0	0	0	0	0	0	-0.88	-0.87	2	2	0	1500	1500	0
10/13/2024 20:28	48302	ORWI_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
10/13/2024 20:29	45902	AUBU_T1	0	0	0	0	0	0	-0.03	-0.1	1	1	0	600	600	0
10/13/2024 20:29	60101	COCA_T1	0	0	0	0	0	0	0.33	0.25	0	0	0	0	0	0
10/13/2024 20:29	63501	HEID_TBK1-2	23	2	-21	0.21	0.4	0.19	-0.31	-0.32	1	1	0	900	900	0
10/13/2024 20:29	60204	ATGL_T2	0	0	0	0	0	0	-0.45	-0.47	0	0	0	0	0	0
10/13/2024 20:29	14802	TREI_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
10/13/2024 20:29	13905	SEID_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
10/13/2024 20:29	15203	SFAR_T2	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
10/13/2024 20:29	60301	TWVA_T2	0	0	0	0	0	0	-2.05	-2.08	2	2	0	1800	1800	0
10/13/2024 20:30	40101	HUNT_T2	4	1	-3	0.18	0	-0.18	0	0	0	0	0	0	0	0
10/13/2024 20:30	14204	EALL_T2	0	0	0	0	0	0	-1.21	-1.07	0	0	0	0	0	0
10/13/2024 20:30	24702	FLND_T2	6	0	-6	1.37	0	-1.37	-0.63	0.47	1	0	-1	1200	0	-1200
10/13/2024 20:30	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/13/2024 20:30	16103	BING_T2	0	0	0	0	0	0	-0.88	-0.87	2	2	0	1500	1500	0
10/13/2024 20:30	65001	NEFF_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
10/13/2024 20:30	16102	BING_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/13/2024 20:31	65601	QVIL_T2	0	0	0	0	0	0	-1.16	-1.13	1	1	0	900	900	0
10/13/2024 20:32	15203	SFAR_T2	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
10/13/2024 20:32	63501	HEID_TBK1-2	2	1	-1	0.4	0.4	0	-0.31	-0.32	1	1	0	900	900	0
10/13/2024 20:32	43801	SWIL_T1	2	2	0	3.3	3.25	-0.05	0	0	0	0	0	0	0	0
10/13/2024 20:32	50105	HARR_T3	6	6	0	6.52	6.25	-0.27	0	0	0	0	0	0	0	0
10/13/2024 20:32	65503	MOJO_T2	0	0	0	0	0	0	-0.26	-0.36	0	0	0	0	0	0
10/13/2024 20:32	50201	HARR_T3	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/13/2024 20:32	50103	HARR_T3	0	5	5	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 20:32	54501	ENOL_T2	0	0	0	0	0	0	-0.48	-0.49	1	1	0	600	600	0
10/13/2024 20:32	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 20:32	60101	COCA_T1	0	0	0	0	0	0	0.33	0.25	0	0	0	0	0	0
10/13/2024 20:32	64101	REFR_T1	3	3	0	1.23	0.4	-0.83	0	0	0	0	0	0	0	0
10/13/2024 20:32	60102	COCA_T1	0	0	0	0	0	0	-0.16	0.12	2	2	0	1200	1200	0
10/13/2024 20:32	43802	SWIL_T1	0	0	0	0	0	0	-0.18	-0.21	1	1	0	600	600	0
10/13/2024 20:32	50107	HARR_T3	1	1	0	8.7	8.5	-0.2	0	0	0	0	0	0	0	0
10/13/2024 20:32	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 20:32	45901	AUBU_T1	0	0	0	0	0	0	0.88	0.88	0	0	0	0	0	0
10/13/2024 20:33	60101	COCA_T1	0	0	0	0	0	0	0.33	0.25	0	0	0	0	0	0
10/13/2024 20:33	65206	PRIN_T4	2	0	-2	1.7	0	-1.7	0	0	0	0	0	0	0	0
10/13/2024 20:33	10801	CHHI_T1	0	0	0	0	0	0	-2.05	-2.05	3	3	0	2100	2100	0
10/13/2024 20:33	63501	HEID_TBK1-2	2	1	-1	0.4	0.4	0	-0.31	-0.32	1	1	0	900	900	0
10/13/2024 20:33	45902	AUBU_T1	0	0	0	0	0	0	-0.03	-0.1	1	1	0	600	600	0
10/13/2024 20:33	65207	PRIN_T4	1	1	0	0.6	0.8	0.2	0	0	2	2	0	1800	1800	0
10/13/2024 20:34	60101	COCA_T1	0	0	0	0	0	0	0.33	0.25	0	0	0	0	0	0
10/13/2024 20:34	55405	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 20:34	13303	ORVI_T1	0	0	0	0	0	0	0.61	0.57	0	0	0	0	0	0
10/13/2024 20:34	66504	SMAN_T2	0	0	0	0	0	0	-1.73	-0.4	1	0	-1	1200	0	-1200
10/13/2024 20:34	20603	GRWO_T2	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
10/13/2024 20:34	20601	GRWO_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/13/2024 20:34	14802	TREI_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
10/13/2024 20:34	48301	ORWI_T1	2	2	0	5.1	5.3	0.2	0	0	1	1	0	900	900	0
10/13/2024 20:34	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 20:35	64101	REFR_T1	3	3	0	1.23	0.4	-0.83	0	0	0	0	0	0	0	0
10/13/2024 20:35	41301	FISH_T1	3	3	0	1.33	1.43	0.1	-0.19	-0.2	0	0	0	0	0	0
10/13/2024 20:35	65205	PRIN_T1	1	1	0	1.7	2	0.3	0	0	0	0	0	0	0	0
10/13/2024 20:35	50501	MECH_T1	4	4	0	0.25	0.53	0.28	0	0	0	0	0	0	0	0
10/13/2024 20:35	20403	ASHF_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
10/13/2024 20:35	66502	SMAN_T2	0	0	0	0	0	0	-0.23	-0.27	0	0	0	0	0	0
10/13/2024 20:35	60801	BUCK_T1	0	0	0	0	0	0	-0.87	-0.91	1	1	0	600	600	0
10/13/2024 20:35	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 20:35	50502	MECH_T1	1	1	0	1.7	2	0.3	1471.82	1472.04	2	2	0	2100	2100	0
10/13/2024 20:35	53102	WTWN_T1	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
10/13/2024 20:36	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 20:36	64101	REFR_T1	3	3	0	1.23	0.4	-0.83	0	0	0	0	0	0	0	0
10/13/2024 20:36	58401	MORO_T1	0	0	0	0	0	0	-1.13	-1.15	1	1	0	600	600	0
10/13/2024 20:36	60201	ATGL_T2	0	0	0	0	0	0	-0.47	-0.38	0	0	0	0	0	0
10/13/2024 20:36	46801	HEPB_T2	2	2	0	0.1	0.25	0.15	0.48	0.47	0	0	0	0	0	0
10/13/2024 20:36	53102	WTWN_T1	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
10/13/2024 20:37	66505	SMAN_T2	0	0	0	0	0	0	-0.03	-0.08	2	2	0	1500	1500	0
10/13/2024 20:37	40602	PIGR_T1	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
10/13/2024 20:37	58402	MORO_T1	0	0	0	0	0	0	-0.46	-0.51	2	2	0	1500	1500	0
10/13/2024 20:37	53102	WTWN_T1	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
10/13/2024 20:38	63801	HEMP_T1	0	0	0	0	0	0	0.4	-0.26	0	0	0	0	0	0
10/13/2024 20:38	61801	EELI_T2	0	0	0	0	0	0	-0.88	-0.89	1	1	0	600	600	0
10/13/2024 20:38	64101	REFR_T1	3	3	0	1.23	0.4	-0.83	0	0	0	0	0	0	0	0
10/13/2024 20:38	60101	COCA_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
10/13/2024 20:38	63804	HEMP_T1	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
10/13/2024 20:39	63501	HEID_TBK1-2	2	1	-1	0.4	0.4	0	-0.32	-0.38	1	1	0	900	900	0
10/13/2024 20:40	60801	BUCK_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	600	600	0
10/13/2024 20:40	58401	MORO_T1	0	0	0	0	0	0	-1.15	-0.96	1	1	0	600	600	0
10/13/2024 20:40	64305	LINC_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/13/2024 20:40	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/13/2024 20:40	63501	HEID_TBK1-2	2	1	-1	0.4	0.4	0	-0.32	-0.38	1	1	0	900	900	0
10/13/2024 20:41	64204	KINZ_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
10/13/2024 20:41	64203	KINZ_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	600	600	0
10/13/2024 20:41	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/13/2024 20:41	64101	REFR_T1	3	3	0	1.23	0.4	-0.83	0	0	0	0	0	0	0	0
10/13/2024 20:42	42601	TUSC_T1	0	0	0	0	0	0	-0.65	-0.63	2	2	0	1800	1800	0
10/13/2024 20:42	58401	MORO_T1	0	0	0	0	0	0	-2.29	-1.92	2	2	0	1200	1200	0
10/13/2024 20:42	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 20:43	64101	REFR_T1	3	3	0	1.23	0.4	-0.83	0	0	0	0	0	0	0	0
10/13/2024 20:43	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/13/2024 20:43	63804	HEMP_T1	1	1	0	5.6	5.4	-0.2	0.87	0.87	0	0	0	0	0	0
10/13/2024 20:43	55105	WERT_T1	0	0	0	0	0	0	-0.54	-0.57	1	1	0	900	900	0
10/13/2024 21:15	67605	WARW_T1	23	25	2	0.64	0.58	-0.06	-1.2	-1.22	0	0	0	0	0	0
10/13/2024 21:20	10801	CHHI_T1	23	0	-23	0.12	0	-0.12	-2.08	-1.64	3	2	-1	2100	1500	-600
10/13/2024 21:54	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 7:42	21501	CEAV_T2	0	0	0	0	0	0	-0.26	-0.25	1	1	0	1200	1200	0
10/14/2024 8:11	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 8:12	14201	EALL_T1	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
10/14/2024 8:13	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 8:19	55002	NEWP_T1	6	11	5	1.05	0.55	-0.5	-0.24	-0.25	0	0	0	0	0	0
10/14/2024 8:19	55001	NEWP_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/14/2024 8:25	67501	WEWI_T1	40	77	37	0.14	0.23	0.09	0	0	0	0	0	0	0	0
10/14/2024 8:25	67505	WEWI_T1	0	0	0	0	0	0	-0.22	-0.24	1	1	0	900	900	0
10/14/2024 8:27	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 8:27	50624	CCTY_T2	2	2	0	6.15	6.05	-0.1	0	0	0	0	0	0	0	0
10/14/2024 8:27	50623	CCTY_T2	5	5	0	6.28	6.28	0	0	0	0	0	0	0	0	0
10/14/2024 8:27	45502	DERR_T2	1	3	2	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/14/2024 8:27	50625	CCTY_T2	5	5	0	2.62	2.56	-0.06	0	0	0	0	0	0	0	0
10/14/2024 8:27	45501	DERR_T2	0	0	0	0	0	0	0.8	0.72	2	2	0	1800	1800	0
10/14/2024 8:28	44801	EDAN_T2	145	158	13	0.43	0.48	0.05	-1.64	-1.71	0	0	0	0	0	0
10/14/2024 8:32	12802	MICK_T1	0	0	0	0	0	0	-1.3	-1.3	0	0	0	0	0	0
10/14/2024 8:32	12807	MICK_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
10/14/2024 8:32	12803	MICK_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
10/14/2024 8:39	45501	DERR_T2	0	0	0	0	0	0	0.72	0.71	2	2	0	1800	1800	0
10/14/2024 8:39	45502	DERR_T2	1	3	2	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
10/14/2024 8:43	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 8:49	64801	MONE_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/14/2024 8:49	64802	MONE_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
10/14/2024 8:50	66903	SHIL_T2	0	0	0	0	0	0	-1.62	-1.64	0	0	0	0	0	0
10/14/2024 8:50	66901	SHIL_T2	0	0	0	0	0	0	-0.3	-0.35	0	0	0	0	0	0
10/14/2024 8:51	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 8:51	15703	TANN_T2	1	2	1	5.6	5.7	0.1	0	0	0	0	0	0	0	0
10/14/2024 8:51	66903	SHIL_T2	0	0	0	0	0	0	-4.92	-4.89	0	0	0	0	0	0
10/14/2024 8:51	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 8:51	15702	TANN_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
10/14/2024 8:52	66903	SHIL_T2	0	0	0	0	0	0	-3.28	-3.26	0	0	0	0	0	0
10/14/2024 8:52	67106	SPRI_T2	0	0	0	0	0	0	-1.2	-1.21	1	1	0	900	900	0
10/14/2024 8:52	66902	SHIL_T2	0	0	0	0	0	0	-1.03	-0.98	0	0	0	0	0	0
10/14/2024 8:53	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 8:54	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 8:54	45502	DERR_T2	3	2	-1	0.43	0.3	-0.13	0.48	0.47	0	0	0	0	0	0
10/14/2024 8:54	66902	SHIL_T2	0	0	0	0	0	0	-1.03	-0.98	0	0	0	0	0	0
10/14/2024 8:54	66901	SHIL_T2	0	0	0	0	0	0	-0.7	-0.6	0	0	0	0	0	0
10/14/2024 8:54	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 8:55	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 8:55	66903	SHIL_T2	0	0	0	0	0	0	-1.64	-1.63	0	0	0	0	0	0
10/14/2024 8:58	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
10/14/2024 9:00	63803	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/14/2024 9:00	63801	HEMP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 9:00	63804	HEMP_T1	4	1	-3	1.45	5.7	4.25	0.95	0.89	0	0	0	0	0	0
10/14/2024 9:02	22701	MINO_T1	0	0	0	0	0	0	-1.23	-1.22	1	1	0	600	600	0
10/14/2024 9:02	47401	PENS_T1	2	9	7	0.35	6.07	5.72	0.22	0.17	0	0	0	0	0	0
10/14/2024 9:02	47403	PENS_T1	2	6	4	0.3	0.57	0.27	0	0	0	0	0	0	0	0
10/14/2024 9:02	47402	PENS_T1	1	2	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/14/2024 9:06	14801	TREI_T2	1	1	0	0.1	0.1	0	0.29	0.33	0	0	0	0	0	0
10/14/2024 9:10	44301	BEAV_T2	0	0	0	0	0	0	-0.6	0.01	2	2	0	1500	1500	0
10/14/2024 9:17	51702	OBER_T1	2	2	0	3.65	3.25	-0.4	0	0	1	1	0	600	600	0
10/14/2024 9:18	55001	NEWP_T1	0	0	0	0	0	0	0.03	-0.04	0	0	0	0	0	0
10/14/2024 9:18	55002	NEWP_T1	7	6	-1	0.81	0.77	-0.04	0	0	0	0	0	0	0	0
10/14/2024 9:18	52502	PROG_T2	0	0	0	0	0	0	-1.52	-1.44	2	2	0	1800	1800	0
10/14/2024 9:19	12803	MICK_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/14/2024 9:19	12801	MICK_T1	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
10/14/2024 9:19	55002	NEWP_T1	7	6	-1	0.81	0.77	-0.04	-0.23	-0.24	0	0	0	0	0	0
10/14/2024 9:19	12807	MICK_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
10/14/2024 9:19	51702	OBER_T1	2	2	0	3.65	3.25	-0.4	0	0	0	0	0	0	0	0
10/14/2024 9:19	51704	OBER_T1	0	0	0	0	0	0	-1.74	-0.42	1	0	-1	1200	0	-1200
10/14/2024 9:20	52502	PROG_T2	0	0	0	0	0	0	-0.76	-0.72	1	1	0	900	900	0
10/14/2024 9:20	65502	MOJO_T2	0	2	2	0	0.2	0.2	-0.97	-1.27	0	0	0	0	0	0
10/14/2024 9:20	51702	OBER_T1	2	2	0	3.65	3.25	-0.4	0	0	0	0	0	0	0	0
10/14/2024 9:20	51704	OBER_T1	0	0	0	0	0	0	-1.74	-0.42	1	0	-1	1200	0	-1200
10/14/2024 9:21	55002	NEWP_T1	7	6	-1	0.81	0.77	-0.04	-0.23	-0.24	0	0	0	0	0	0
10/14/2024 9:22	57303	MOAL_T2	1	1	0	7.9	7.6	-0.3	0	0	0	0	0	0	0	0
10/14/2024 9:22	57306	MOAL_T2	0	0	0	0	0	0	-3.27	-3.23	1	1	0	1200	1200	0
10/14/2024 9:23	51702	OBER_T1	2	2	0	3.65	3.25	-0.4	0	0.01	1	1	0	600	600	0
10/14/2024 9:23	64602	LEOL_T1	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
10/14/2024 9:23	14801	TREI_T2	1	1	0	0.1	0.1	0	0.31	0.33	0	0	0	0	0	0
10/14/2024 9:25	13701	SCHN_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
10/14/2024 9:25	13704	SCHN_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
10/14/2024 9:26	51603	DUKE_T1	1	0	-1	0.2	0	-0.2	83.96	83.96	0	0	0	0	0	0
10/14/2024 9:26	46001	BERW_T1	0	0	0	0	0	0	1.76	1.86	0	0	0	0	0	0
10/14/2024 9:30	46602	LACR_T1	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
10/14/2024 9:32	54505	ENOL_T2	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
10/14/2024 9:32	54506	ENOL_T2	0	0	0	0	0	0	-0.1	-0.15	1	1	0	600	600	0
10/14/2024 9:33	51702	OBER_T1	2	2	0	3.25	2.45	-0.8	0	0.01	1	1	0	600	600	0
10/14/2024 9:35	24202	PROV_T4	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/14/2024 9:36	14802	TREI_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
10/14/2024 9:36	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/14/2024 9:37	67501	WEWI_T1	2	4	2	0.35	0.5	0.15	-1.12	-1.12	1	1	0	600	600	0
10/14/2024 9:38	67502	WEWI_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/14/2024 9:38	67503	WEWI_T2	1	1	0	9.5	9.5	0	-0.29	-0.24	0	0	0	0	0	0
10/14/2024 9:39	67502	WEWI_T2	0	2	2	0	0.3	0.3	-0.27	-0.14	0	0	0	0	0	0
10/14/2024 9:39	67503	WEWI_T2	1	1	0	9.5	9.5	0	0	0	0	0	0	0	0	0
10/14/2024 9:40	67502	WEWI_T2	0	2	2	0	0.3	0.3	-0.53	-0.28	0	0	0	0	0	0
10/14/2024 9:40	67501	WEWI_T1	2	4	2	0.35	0.5	0.15	-1.12	-1.12	1	1	0	600	600	0
10/14/2024 9:40	10805	CHHI_T2	4	2	-2	2.4	3.85	1.45	-1.43	-1.44	2	2	0	1800	1800	0
10/14/2024 9:40	67503	WEWI_T2	1	1	0	9.5	9.5	0	-0.29	-0.24	0	0	0	0	0	0
10/14/2024 9:41	67501	WEWI_T1	2	4	2	0.35	0.5	0.15	0	0	0	0	0	0	0	0
10/14/2024 9:41	67505	WEWI_T1	0	0	0	0	0	0	-0.26	-0.27	1	1	0	900	900	0
10/14/2024 9:42	67605	WARW_T1	15	22	7	0.71	0.57	-0.14	0	0	0	0	0	0	0	0
10/14/2024 9:42	67503	WEWI_T2	1	1	0	9.5	9.5	0	-0.29	-0.24	0	0	0	0	0	0
10/14/2024 9:42	67502	WEWI_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/14/2024 9:42	10602	BLGL_T2	0	1	1	0	0.2	0.2	0.33	0.53	0	0	0	0	0	0
10/14/2024 9:42	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 9:43	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 9:43	21206	ECAR_T2	1	1	0	7.2	7.3	0.1	1.39	1.4	0	0	0	0	0	0
10/14/2024 9:43	12302	LANA_T2	0	0	0	0	0	0	-1.72	-1.7	2	2	0	1500	1500	0
10/14/2024 9:58	14203	EALL_T1	0	0	0	0	0	0	1.01	1.12	0	0	0	0	0	0
10/14/2024 9:59	24703	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 9:59	24702	FLND_T2	0	6	6	0	0.42	0.42	0.05	0.19	1	1	0	1200	1200	0
10/14/2024 10:00	52502	PROG_T2	0	1	1	0	0.4	0.4	-0.71	-0.76	1	1	0	900	900	0
10/14/2024 10:00	67502	WEWI_T2	2	10	8	0.3	0.33	0.03	0	0	0	0	0	0	0	0
10/14/2024 10:00	55002	NEWP_T1	6	10	4	0.9	0.87	-0.03	-0.23	-0.19	0	0	0	0	0	0
10/14/2024 10:00	13704	SCHN_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
10/14/2024 10:00	13701	SCHN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/14/2024 10:00	67503	WEWI_T2	1	1	0	9.5	9.5	0	-0.24	-0.24	0	0	0	0	0	0
10/14/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
10/14/2024 10:00	41902	REED_T1	0	0	0	0	0	0	0.93	0.95	0	0	0	0	0	0
10/14/2024 10:05	67201	TEHI_T1	0	3	3	0	0.37	0.37	1.07	0.87	1	1	0	900	900	0
10/14/2024 10:05	64903	MILL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/14/2024 10:05	64902	MILL_T2	6	6	0	0.35	0.57	0.22	-0.75	-0.69	1	1	0	900	900	0
10/14/2024 10:08	55101	WERT_T1	0	0	0	0	0	0	-0.62	-0.66	1	1	0	600	600	0
10/14/2024 10:08	14802	TREI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/14/2024 10:08	14801	TREI_T2	1	2	1	0.2	0.65	0.45	0.32	0.3	0	0	0	0	0	0
10/14/2024 10:08	15203	SFAR_T2	1	1	0	0.2	0.4	0.2	-2.58	-2.6	0	0	0	0	0	0
10/14/2024 10:08	24801	VALM_T1	0	0	0	0	0	0	0	-0.4	0	0	0	0	0	0
10/14/2024 10:09	67503	WEWI_T2	1	1	0	9.5	9.5	0	-0.24	-0.22	0	0	0	0	0	0
10/14/2024 10:09	67502	WEWI_T2	2	10	8	0.3	0.33	0.03	-0.1	-0.14	0	0	0	0	0	0
10/14/2024 10:09	64902	MILL_T2	6	6	0	0.35	0.57	0.22	-0.69	-0.65	1	1	0	900	900	0
10/14/2024 10:09	55101	WERT_T1	0	0	0	0	0	0	-0.62	-0.66	1	1	0	600	600	0
10/14/2024 10:09	64903	MILL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/14/2024 10:10	14801	TREI_T2	1	2	1	0.2	0.65	0.45	0.32	0.3	0	0	0	0	0	0
10/14/2024 10:10	67503	WEWI_T2	1	1	0	9.5	9.5	0	0	0	0	0	0	0	0	0
10/14/2024 10:10	14802	TREI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/14/2024 10:10	67502	WEWI_T2	2	10	8	0.3	0.33	0.03	-0.1	-0.14	0	0	0	0	0	0
10/14/2024 10:11	67502	WEWI_T2	2	10	8	0.3	0.33	0.03	0	0	0	0	0	0	0	0
10/14/2024 10:11	67503	WEWI_T2	1	1	0	9.5	9.5	0	-0.24	-0.22	0	0	0	0	0	0
10/14/2024 10:11	67501	WEWI_T1	4	14	10	0.5	0.52	0.02	-1.08	-1.06	1	1	0	600	600	0
10/14/2024 10:11	67505	WEWI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 10:13	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 10:13	67503	WEWI_T2	1	1	0	9.5	9.5	0	-0.24	-0.22	0	0	0	0	0	0
10/14/2024 10:13	67502	WEWI_T2	2	10	8	0.3	0.33	0.03	0	0	0	0	0	0	0	0
10/14/2024 10:14	67501	WEWI_T1	4	14	10	0.5	0.52	0.02	-1.08	-1.06	1	1	0	600	600	0
10/14/2024 10:14	14203	EALL_T1	0	0	0	0	0	0	1.12	1.08	0	0	0	0	0	0
10/14/2024 10:14	67505	WEWI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 10:14	21206	ECAR_T2	1	1	0	6.8	7	0.2	1.45	1.56	0	0	0	0	0	0
10/14/2024 10:14	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 10:15	63601	LETO_T1	9	10	1	0.79	0.74	-0.05	0.85	0.89	1	1	0	900	900	0
10/14/2024 10:15	20201	JERM_T1	0	0	0	0	0	0	0.3	-0.22	2	2	0	2400	2400	0
10/14/2024 10:15	24101	EHAZ_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
10/14/2024 10:15	24104	EHAZ_T1	0	0	0	0	0	0	-0.89	-0.88	1	1	0	1200	1200	0
10/14/2024 10:15	63602	LETO_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/14/2024 10:15	24105	EHAZ_T1	4	4	0	5.8	5.98	0.18	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/14/2024 10:16	24104	EHAZ_T1	0	0	0	0	0	0	-0.89	-0.88	1	1	0	1200	1200	0
10/14/2024 10:16	24105	EHAZ_T1	4	4	0	5.8	5.98	0.18	0	0	0	0	0	0	0	0
10/14/2024 10:16	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 10:16	24101	EHAZ_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
10/14/2024 10:17	64305	LINC_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
10/14/2024 10:17	63601	LETO_T1	9	10	1	0.79	0.74	-0.05	0.85	0.89	1	1	0	900	900	0
10/14/2024 10:17	44502	HAMI_T2	2	1	-1	2.05	3.4	1.35	0	0	0	0	0	0	0	0
10/14/2024 10:17	63602	LETO_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/14/2024 10:17	44503	HAMI_T2	0	0	0	0	0	0	-1.25	-1.28	1	1	0	1200	1200	0
10/14/2024 10:19	15703	TANN_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
10/14/2024 10:19	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
10/14/2024 10:19	25402	LAHA_T2	0	0	0	0	0	0	-0.44	-0.49	0	0	0	0	0	0
10/14/2024 10:19	51702	OBER_T1	2	2	0	2.7	2.6	-0.1	0	0	0	0	0	0	0	0
10/14/2024 10:19	51704	OBER_T1	0	0	0	0	0	0	-0.36	-0.41	0	0	0	0	0	0
10/14/2024 10:20	64802	MONE_T2	12	9	-3	0.25	0.4	0.15	0.27	0.08	0	0	0	0	0	0
10/14/2024 10:20	44505	HAMI_T2	0	0	0	0	0	0	0.74	0.71	0	0	0	0	0	0
10/14/2024 10:20	44502	HAMI_T2	2	1	-1	2.05	3.4	1.35	0	0	0	0	0	0	0	0
10/14/2024 10:20	64801	MONE_T2	2	3	1	0.95	0.5	-0.45	0	0	0	0	0	0	0	0
10/14/2024 10:21	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 10:21	44502	HAMI_T2	2	1	-1	2.05	3.4	1.35	0	0	0	0	0	0	0	0
10/14/2024 10:21	15203	SFAR_T2	1	2	1	0.4	0.25	-0.15	-1.29	-1.3	0	0	0	0	0	0
10/14/2024 10:23	44502	HAMI_T2	2	1	-1	2.05	3.4	1.35	-0.96	-0.96	0	0	0	0	0	0
10/14/2024 10:25	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 10:25	64802	MONE_T2	12	9	-3	0.25	0.4	0.15	0	0	0	0	0	0	0	0
10/14/2024 10:25	67201	TEHI_T1	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
10/14/2024 10:25	67203	TEHI_T1	0	0	0	0	0	0	2.27	2.29	3	3	0	2100	2100	0
10/14/2024 10:25	64801	MONE_T2	2	3	1	0.95	0.5	-0.45	0.22	0.26	0	0	0	0	0	0
10/14/2024 10:25	66502	SMAN_T2	0	0	0	0	0	0	0.23	0.17	0	0	0	0	0	0
10/14/2024 10:25	42701	AUGU_T1	1	1	0	0.9	1	0.1	0	0	2	2	0	1800	1800	0
10/14/2024 10:26	67605	WARW_T1	25	15	-10	0.51	0.48	-0.03	0	0	0	0	0	0	0	0
10/14/2024 10:26	67603	WARW_T1	1	2	1	0.2	0.3	0.1	0.06	0.07	0	0	0	0	0	0
10/14/2024 10:27	10805	CHIH_T2	3	3	0	2.67	2.7	0.03	-1.44	-1.36	2	2	0	1800	1800	0
10/14/2024 10:28	53501	EVIL_T2	4	2	-2	0.6	0.8	0.2	-0.19	-0.17	2	2	0	1200	1200	0
10/14/2024 10:28	10801	CHIH_T1	2	3	1	0.35	0.23	-0.12	-0.75	-0.8	1	1	0	900	900	0
10/14/2024 10:28	67605	WARW_T1	25	15	-10	0.51	0.48	-0.03	-1.07	-1.09	0	0	0	0	0	0
10/14/2024 10:28	67603	WARW_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/14/2024 10:29	53501	EVIL_T2	4	2	-2	0.6	0.8	0.2	-0.38	-0.33	4	4	0	2400	2400	0
10/14/2024 10:29	67603	WARW_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/14/2024 10:29	67605	WARW_T1	25	15	-10	0.51	0.48	-0.03	0	0	0	0	0	0	0	0
10/14/2024 10:30	54504	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 10:30	54502	ENOL_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
10/14/2024 10:30	53501	EVIL_T2	2	2	0	0.8	0.5	-0.3	-0.19	-0.17	2	2	0	1200	1200	0
10/14/2024 10:30	54505	ENOL_T2	1	2	1	0.8	0.6	-0.2	-1.41	-1.39	1	1	0	600	600	0
10/14/2024 10:31	53501	EVIL_T2	2	2	0	0.8	0.5	-0.3	-0.38	-0.33	4	4	0	2400	2400	0
10/14/2024 10:33	28403	HART_T2	0	0	0	0	0	0	0.08	0.01	0	0	0	0	0	0
10/14/2024 10:34	65604	QVIL_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
10/14/2024 10:34	65602	QVIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/14/2024 10:34	65601	QVIL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 10:35	55002	NEWP_T1	7	6	-1	0.79	0.6	-0.19	-0.19	-0.23	0	0	0	0	0	0
10/14/2024 10:36	55002	NEWP_T1	7	6	-1	0.79	0.6	-0.19	-0.38	-0.46	0	0	0	0	0	0
10/14/2024 10:37	57401	SPAN_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
10/14/2024 10:37	66505	SMAN_T2	0	0	0	0	0	0	0.72	0.61	1	1	0	900	900	0
10/14/2024 10:37	57403	SPAN_T1	4	3	-1	0.4	0.43	0.03	-0.06	-0.04	0	0	0	0	0	0
10/14/2024 10:38	55102	WERT_T2	0	0	0	0	0	0	-0.33	-0.31	2	2	0	1200	1200	0
10/14/2024 10:39	57403	SPAN_T1	4	3	-1	0.4	0.43	0.03	-0.06	-0.04	0	0	0	0	0	0
10/14/2024 10:39	14802	TREI_T2	1	0	-1	0.2	0	-0.2	0.37	0.34	0	0	0	0	0	0
10/14/2024 10:39	57401	SPAN_T1	2	0	-2	0.45	0.5	0.05	0	0	0	0	0	0	0	0
10/14/2024 10:39	14801	TREI_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
10/14/2024 10:40	45502	DERR_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/14/2024 10:40	57401	SPAN_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
10/14/2024 10:40	55102	WERT_T2	0	0	0	0	0	0	-0.33	-0.31	2	2	0	1200	1200	0
10/14/2024 10:40	57403	SPAN_T1	4	3	-1	0.4	0.43	0.03	-0.06	-0.04	0	0	0	0	0	0
10/14/2024 10:40	45501	DERR_T2	2	3	1	0.4	0.1	-0.3	0.91	0.93	2	2	0	1800	1800	0
10/14/2024 10:41	67505	WEWI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/14/2024 10:41	67501	WEWI_T1	9	6	-3	0.64	0.58	-0.06	-0.95	-1.08	1	1	0	600	600	0
10/14/2024 10:42	21501	CEAV_T2	0	0	0	0	0	0	0.08	-0.03	1	1	0	1200	1200	0
10/14/2024 10:44	45501	DERR_T2	2	3	1	0.4	0.1	-0.3	0.91	0.93	2	2	0	1800	1800	0
10/14/2024 10:44	45502	DERR_T2	1	1	0	0.3	0.5	0.2	0.2	0.23	0	0	0	0	0	0
10/14/2024 10:45	50103	HARR_T3	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
10/14/2024 10:45	50107	HARR_T3	1	1	0	7.7	8	0.3	0	0	0	0	0	0	0	0
10/14/2024 10:45	50105	HARR_T3	6	6	0	5.87	5.92	0.05	0	0	0	0	0	0	0	0
10/14/2024 10:47	64203	KINZ_T1	0	0	0	0	0	0	0.49	0.53	2	2	0	900	900	0
10/14/2024 10:47	64202	KINZ_T1	3	0	-3	0.67	0	-0.67	0	0	0	0	0	0	0	0
10/14/2024 10:47	64204	KINZ_T1	5	49	44	0.66	0.4	-0.26	0	0	0	0	0	0	0	0
10/14/2024 10:50	15703	TANN_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
10/14/2024 10:50	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
10/14/2024 10:51	15703	TANN_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
10/14/2024 10:51	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
10/14/2024 10:59	63503	HEID_TBK1-2	0	5	5	0	0.36	0.36	0.33	0.28	1	1	0	900	900	0
10/14/2024 11:00	63501	HEID_TBK1-2	4	3	-1	0.3	0.53	0.23	0.65	0.56	2	2	0	1800	1800	0
10/14/2024 11:01	63501	HEID_TBK1-2	4	3	-1	0.3	0.53	0.23	0.65	0.56	2	2	0	1800	1800	0
10/14/2024 11:03	64204	KINZ_T1	1	49	48	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
10/14/2024 11:03	63501	HEID_TBK1-2	4	3	-1	0.3	0.53	0.23	0.33	0.28	1	1	0	900	900	0
10/14/2024 11:03	64203	KINZ_T1	0	0	0	0	0	0	0.53	0.51	2	2	0	900	900	0
10/14/2024 11:04	24202	PROV_T4	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/14/2024 11:05	66504	SMAN_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
10/14/2024 11:05	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 11:05	66502	SMAN_T2	0	9	9	0	0.26	0.26	0	0	0	0	0	0	0	0
10/14/2024 11:06	66504	SMAN_T2	0	2	2	0	0.65	0.65	-0.41	-0.31	0	0	0	0	0	0
10/14/2024 11:06	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 11:06	66502	SMAN_T2	0	9	9	0	0.26	0.26	0	0	0	0	0	0	0	0
10/14/2024 11:07	55101	WERT_T1	0	0	0	0	0	0	-2.66	-2.68	2	2	0	1200	1200	0
10/14/2024 11:09	14802	TREI_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
10/14/2024 11:09	14801	TREI_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
10/14/2024 11:09	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.57	1	1	0	900	900	0
10/14/2024 11:09	16102	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/14/2024 11:09	16101	BING_T2	0	1	1	0	0.4	0.4	0.34	0.32	0	0	0	0	0	0
10/14/2024 11:10	14802	TREI_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
10/14/2024 11:10	14801	TREI_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
10/14/2024 11:10	45902	AUBU_T1	0	0	0	0	0	0	-0.11	-0.07	1	1	0	600	600	0
10/14/2024 11:11	45902	AUBU_T1	0	0	0	0	0	0	-0.11	-0.07	1	1	0	600	600	0
10/14/2024 11:13	67503	WEWI_T2	1	1	0	9	9.2	0.2	0	0	0	0	0	0	0	0
10/14/2024 11:13	67502	WEWI_T2	2	1	-1	0.35	0.5	0.15	-0.19	-0.09	0	0	0	0	0	0
10/14/2024 11:17	63501	HEID_TBK1-2	3	2	-1	0.5	0.4	-0.1	0.28	0.12	1	1	0	900	900	0
10/14/2024 11:19	54505	ENOL_T2	2	1	-1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
10/14/2024 11:19	47403	PENS_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
10/14/2024 11:19	47402	PENS_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/14/2024 11:19	54502	ENOL_T2	1	6	5	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
10/14/2024 11:19	47401	PENS_T1	0	2	2	0	0.8	0.8	0.3	0.32	0	0	0	0	0	0
10/14/2024 11:19	54504	ENOL_T2	0	0	0	0	0	0	-1.19	-1.15	1	1	0	600	600	0
10/14/2024 11:22	66001	RHEE_T2	0	0	0	0	0	0	-1.28	-1.17	2	2	0	2100	2100	0
10/14/2024 11:23	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 11:23	66504	SMAN_T2	0	2	2	0	0.65	0.65	-0.31	-0.28	0	0	0	0	0	0
10/14/2024 11:23	66502	SMAN_T2	1	9	8	0.2	0.26	0.06	0	0	0	0	0	0	0	0
10/14/2024 11:24	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 11:24	67203	TEHI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 11:24	66502	SMAN_T2	1	9	8	0.2	0.26	0.06	0	0	0	0	0	0	0	0
10/14/2024 11:24	66504	SMAN_T2	0	2	2	0	0.65	0.65	-0.31	-0.28	0	0	0	0	0	0
10/14/2024 11:24	67201	TEHI_T1	0	4	4	0	0.45	0.45	1.17	0.79	1	1	0	900	900	0
10/14/2024 11:29	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 11:31	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 11:33	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/14/2024 11:34	65503	MOJO_T2	6	71	65	0.4	0.13	-0.27	-0.88	-0.96	1	1	0	900	900	0
10/14/2024 11:34	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/14/2024 11:34	65502	MOJO_T2	0	26	26	0	0.11	0.11	0	0	0	0	0	0	0	0
10/14/2024 11:36	65503	MOJO_T2	6	71	65	0.4	0.13	-0.27	0	0	0	0	0	0	0	0
10/14/2024 11:36	13701	SCHN_T2	2	2	0	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
10/14/2024 11:36	65502	MOJO_T2	0	26	26	0	0.11	0.11	0.03	-0.06	0	0	0	0	0	0
10/14/2024 11:36	13704	SCHN_T2	1	0	-1	0.2	0	-0.2	-0.38	-0.37	0	0	0	0	0	0
10/14/2024 11:38	65502	MOJO_T2	0	26	26	0	0.11	0.11	0.03	-0.06	0	0	0	0	0	0
10/14/2024 11:38	65501	MOJO_T1	1	0	-1	0.2	0	-0.2	-1.03	-1.03	1	1	0	900	900	0
10/14/2024 11:38	41902	REED_T1	0	0	0	0	0	0	0.85	0.82	0	0	0	0	0	0
10/14/2024 11:38	65503	MOJO_T2	6	71	65	0.4	0.13	-0.27	0	0	0	0	0	0	0	0
10/14/2024 11:39	65503	MOJO_T2	6	71	65	0.4	0.13	-0.27	-0.96	-0.91	1	1	0	900	900	0
10/14/2024 11:39	65502	MOJO_T2	0	26	26	0	0.11	0.11	0	0	0	0	0	0	0	0
10/14/2024 11:41	66504	SMAN_T2	2	0	-2	0.65	0	-0.65	-0.28	-0.32	0	0	0	0	0	0
10/14/2024 11:41	66502	SMAN_T2	9	8	-1	0.26	0.26	0	0	0	0	0	0	0	0	0
10/14/2024 11:41	66503	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/14/2024 11:41	66501	SMAN_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
10/14/2024 11:42	46001	BERW_T1	0	0	0	0	0	0	1.46	2.02	0	0	0	0	0	0
10/14/2024 11:45	45702	LIND_T2	3	9	6	0.8	0.34	-0.46	-0.52	-0.53	0	0	0	0	0	0
10/14/2024 11:48	61801	EELI_T2	0	0	0	0	0	0	-0.24	-0.29	0	0	0	0	0	0
10/14/2024 11:49	13701	SCHN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/14/2024 11:49	13704	SCHN_T2	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
10/14/2024 11:51	43801	SWIL_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
10/14/2024 11:51	43802	SWIL_T1	0	0	0	0	0	0	-0.09	-0.11	1	1	0	600	600	0
10/14/2024 11:53	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.64	-0.78	0	0	0	0	0	0
10/14/2024 11:53	66502	SMAN_T2	2	8	6	0.3	0.26	-0.04	0.23	0.2	0	0	0	0	0	0
10/14/2024 11:53	66503	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/14/2024 11:53	66501	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/14/2024 11:54	66505	SMAN_T2	0	0	0	0	0	0	0.5	0.67	1	1	0	900	900	0
10/14/2024 11:54	66501	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/14/2024 11:54	66502	SMAN_T2	2	8	6	0.3	0.26	-0.04	0.23	0.2	0	0	0	0	0	0
10/14/2024 11:54	66503	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/14/2024 11:54	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 11:55	66501	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/14/2024 11:55	66502	SMAN_T2	2	8	6	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
10/14/2024 11:55	16102	BING_T2	1	5	4	0.6	0.72	0.12	0	0	0	0	0	0	0	0
10/14/2024 11:55	66503	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/14/2024 11:55	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.32	-0.39	0	0	0	0	0	0
10/14/2024 11:55	16101	BING_T2	1	1	0	0.2	0.9	0.7	0.34	0.33	0	0	0	0	0	0
10/14/2024 11:55	16103	BING_T2	0	1	1	0	0.4	0.4	-0.42	-1	1	2	1	900	1500	600
10/14/2024 11:56	44601	SALE_T2	0	0	0	0	0	0	0.71	1.06	2	1	-1	900	600	-300

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/14/2024 11:56	54502	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
10/14/2024 11:56	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/14/2024 11:56	54501	ENOL_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
10/14/2024 11:57	66501	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/14/2024 11:57	40502	CRES_T2	0	2	2	0	0.15	0.15	-0.27	-0.24	0	0	0	0	0	0
10/14/2024 11:57	66502	SMAN_T2	2	8	6	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
10/14/2024 11:57	60103	COCA_T2	0	0	0	0	0	0	-1.39	-1.3	1	1	0	1200	1200	0
10/14/2024 11:57	40501	CRES_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
10/14/2024 11:57	66503	SMAN_T2	0	1	1	0	0.2	0.2	0.46	0.43	0	0	0	0	0	0
10/14/2024 11:57	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 11:58	66503	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/14/2024 11:58	66501	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/14/2024 11:58	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.64	-0.78	0	0	0	0	0	0
10/14/2024 11:58	66502	SMAN_T2	2	8	6	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
10/14/2024 11:58	66505	SMAN_T2	0	0	0	0	0	0	0.5	0.67	1	1	0	900	900	0
10/14/2024 11:59	44301	BEAV_T2	0	0	0	0	0	0	0.03	-0.16	2	1	-1	1500	600	-900
10/14/2024 11:59	44302	BEAV_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
10/14/2024 12:00	64704	LITI_T1	0	0	0	0	0	0	0.33	0.28	1	1	0	600	600	0
10/14/2024 12:00	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 12:00	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 12:00	44301	BEAV_T2	0	0	0	0	0	0	0.03	-0.16	2	1	-1	1500	600	-900
10/14/2024 12:00	66502	SMAN_T2	8	1	-7	0.26	0.4	0.14	0.23	0.2	0	0	0	0	0	0
10/14/2024 12:00	66501	SMAN_T2	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
10/14/2024 12:00	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/14/2024 12:00	66503	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/14/2024 12:01	66502	SMAN_T2	8	1	-7	0.26	0.4	0.14	0.23	0.2	0	0	0	0	0	0
10/14/2024 12:01	66503	SMAN_T2	1	0	-1	0.2	0	-0.2	0.46	0.43	0	0	0	0	0	0
10/14/2024 12:01	66501	SMAN_T2	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
10/14/2024 12:01	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 12:02	66501	SMAN_T2	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
10/14/2024 12:02	66502	SMAN_T2	8	1	-7	0.26	0.4	0.14	0.23	0.2	0	0	0	0	0	0
10/14/2024 12:02	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 12:02	66503	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/14/2024 12:02	64704	LITI_T1	0	0	0	0	0	0	0.33	0.28	1	1	0	600	600	0
10/14/2024 12:04	64101	REFR_T1	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
10/14/2024 12:04	45702	LIND_T2	8	7	-1	0.36	0.4	0.04	-0.53	-0.53	0	0	0	0	0	0
10/14/2024 12:05	66502	SMAN_T2	8	1	-7	0.26	0.4	0.14	0.23	0.2	0	0	0	0	0	0
10/14/2024 12:05	66503	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/14/2024 12:05	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 12:05	66501	SMAN_T2	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
10/14/2024 12:06	43301	WATS_T2	0	0	0	0	0	0	0.16	0.15	1	0	-1	900	0	-900
10/14/2024 12:07	13704	SCHN_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
10/14/2024 12:07	43802	SWIL_T1	0	0	0	0	0	0	-0.11	-0.08	1	1	0	600	600	0
10/14/2024 12:07	43801	SWIL_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
10/14/2024 12:08	13704	SCHN_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
10/14/2024 12:08	43304	WATS_T2	0	0	0	0	0	0	-1.14	-1.15	0	0	0	0	0	0
10/14/2024 12:09	43304	WATS_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
10/14/2024 12:13	61801	EELI_T2	0	1	1	0	0.2	0.2	-0.26	-0.27	0	0	0	0	0	0
10/14/2024 12:15	64305	LINC_T1	1	0	-1	0.5	0	-0.5	-0.23	-0.16	0	0	0	0	0	0
10/14/2024 12:17	64701	LITI_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
10/14/2024 12:19	48901	FOSP_T2	0	0	0	0	0	0	-0.11	-0.08	1	1	0	600	600	0
10/14/2024 12:20	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 12:20	41902	REED_T1	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
10/14/2024 12:21	57104	SPHI_T2	1	1	0	1.7	1.5	-0.2	-0.12	-0.14	0	0	0	0	0	0
10/14/2024 12:21	57106	SPHI_T2	3	4	1	0.6	0.73	0.13	0	0	0	0	0	0	0	0
10/14/2024 12:21	48901	FOSP_T2	0	0	0	0	0	0	-0.11	-0.08	1	1	0	600	600	0
10/14/2024 12:21	11203	ELHE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 12:21	57101	SPHI_T2	5	5	0	0.94	1.1	0.16	0	0	0	0	0	0	0	0
10/14/2024 12:21	11205	ELHE_T1	0	0	0	0	0	0	-0.8	-0.77	1	1	0	1200	1200	0
10/14/2024 12:21	48902	FOSP_T2	0	0	0	0	0	0	-0.23	-0.33	1	1	0	1200	1200	0
10/14/2024 12:22	48901	FOSP_T2	0	0	0	0	0	0	-0.16	-0.27	2	2	0	1200	1200	0
10/14/2024 12:22	41902	REED_T1	0	0	0	0	0	0	0.79	0.83	0	0	0	0	0	0
10/14/2024 12:22	48902	FOSP_T2	0	0	0	0	0	0	-0.33	-0.17	1	1	0	1200	1200	0
10/14/2024 12:23	41902	REED_T1	0	0	0	0	0	0	0.79	0.83	0	0	0	0	0	0
10/14/2024 12:23	24802	VALM_T1	0	0	0	0	0	0	3.65	3.46	0	0	0	0	0	0
10/14/2024 12:24	60301	TWVA_T2	0	0	0	0	0	0	-1.86	-1.76	2	2	0	1800	1800	0
10/14/2024 12:25	13901	SEID_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/14/2024 12:25	13905	SEID_T1	0	0	0	0	0	0	0.28	0.31	0	0	0	0	0	0
10/14/2024 12:25	45302	WBER_T2	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
10/14/2024 12:26	61703	ELIZ_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
10/14/2024 12:26	61701	ELIZ_T1	2	2	0	3.1	3.6	0.5	0.5	0.25	0	0	0	0	0	0
10/14/2024 12:28	11804	FRAN_T1	4	1	-3	0.88	0.3	-0.58	0	0	0	0	0	0	0	0
10/14/2024 12:28	11805	FRAN_T1	3	2	-1	0.97	0.6	-0.37	0	0	0	0	0	0	0	0
10/14/2024 12:29	45902	AUBU_T1	0	2	2	0	0.15	0.15	-0.07	-0.05	1	1	0	600	600	0
10/14/2024 12:34	11202	ELHE_T2	0	0	0	0	0	0	0.46	0.45	1	1	0	1200	1200	0
10/14/2024 12:36	67201	TEHI_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
10/14/2024 12:36	17401	FOHI_T1	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
10/14/2024 12:36	67203	TEHI_T1	1	3	2	0.3	0.8	0.5	2.86	2.92	2	2	0	1500	1500	0
10/14/2024 12:38	17001	RIRO_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
10/14/2024 12:39	14801	TREI_T2	2	8	6	0.2	0.31	0.11	0	0	0	0	0	0	0	0
10/14/2024 12:39	14802	TREI_T2	1	1	0	0.2	0.3	0.1	0.33	0.44	0	0	0	0	0	0
10/14/2024 12:39	13704	SCHN_T2	0	1	1	0	0.2	0.2	-0.35	-0.36	0	0	0	0	0	0
10/14/2024 12:39	13701	SCHN_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
10/14/2024 12:41	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 12:42	44302	BEAV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/14/2024 12:42	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 12:44	66503	SMAN_T2	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
10/14/2024 12:44	63802	HEMP_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/14/2024 12:44	66502	SMAN_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/14/2024 12:44	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 12:44	63801	HEMP_T1	2	6	4	0.25	0.53	0.28	0.73	0.5	0	0	0	0	0	0
10/14/2024 12:44	63803	HEMP_T1	3	6	3	0.1	0.37	0.27	0	0	0	0	0	0	0	0
10/14/2024 12:44	63804	HEMP_T1	1	2	1	5.9	3	-2.9	0	0	0	0	0	0	0	0
10/14/2024 12:44	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/14/2024 12:47	63801	HEMP_T1	6	4	-2	0.53	0.53	0	0.73	0.5	0	0	0	0	0	0
10/14/2024 12:47	63804	HEMP_T1	2	1	-1	3	6	3	0	0	0	0	0	0	0	0
10/14/2024 12:47	63802	HEMP_T1	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
10/14/2024 12:47	61001	DONV_T1	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
10/14/2024 12:47	63803	HEMP_T1	6	4	-2	0.37	0.4	0.03	0	0	0	0	0	0	0	0
10/14/2024 12:48	63801	HEMP_T1	6	4	-2	0.53	0.53	0	0	0	0	0	0	0	0	0
10/14/2024 12:48	63804	HEMP_T1	2	1	-1	3	6	3	1.02	1.04	0	0	0	0	0	0
10/14/2024 12:48	63803	HEMP_T1	6	4	-2	0.37	0.4	0.03	0	0	0	0	0	0	0	0
10/14/2024 12:48	63802	HEMP_T1	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
10/14/2024 12:51	63801	HEMP_T1	6	4	-2	0.53	0.53	0	0	0	0	0	0	0	0	0
10/14/2024 12:51	63802	HEMP_T1	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
10/14/2024 12:51	63804	HEMP_T1	2	1	-1	3	6	3	1.04	1.05	0	0	0	0	0	0
10/14/2024 12:51	63803	HEMP_T1	6	4	-2	0.37	0.4	0.03	0	0	0	0	0	0	0	0
10/14/2024 12:53	16101	BING_T2	1	3	2	0.2	0.7	0.5	0.35	0.34	0	0	0	0	0	0
10/14/2024 12:53	16102	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/14/2024 12:53	16103	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/14/2024 12:55	17002	RIRO_T2	3	4	1	0.47	0.58	0.11	0.63	0.62	0	0	0	0	0	0
10/14/2024 12:56	53501	EVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/14/2024 12:56	53502	EVIL_T2	0	0	0	0	0	0	0.72	0.76	1	1	0	600	600	0
10/14/2024 12:58	61801	EELI_T2	2	2	0	0.3	0.2	-0.1	-0.24	-0.3	0	0	0	0	0	0
10/14/2024 12:58	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 12:59	50105	HARR_T3	6	6	0	5.73	5.83	0.1	0	0	0	0	0	0	0	0
10/14/2024 12:59	50103	HARR_T3	2	2	0	0.1	0.35	0.25	0	0	0	0	0	0	0	0
10/14/2024 12:59	50107	HARR_T3	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
10/14/2024 13:06	48902	FOSP_T2	0	0	0	0	0	0	-0.51	-0.52	1	1	0	1200	1200	0
10/14/2024 13:06	15201	SFAR_T1	0	0	0	0	0	0	-0.53	-0.5	2	2	0	1800	1800	0
10/14/2024 13:07	13501	MCMI_T1	0	0	0	0	0	0	0.1	0.05	0	0	0	0	0	0
10/14/2024 13:10	41305	FISH_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
10/14/2024 13:10	41301	FISH_T1	4	3	-1	1.35	2.2	0.85	0	0	0	0	0	0	0	0
10/14/2024 13:10	41303	FISH_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
10/14/2024 13:11	46001	BERW_T1	0	0	0	0	0	0	0.79	0.8	0	0	0	0	0	0
10/14/2024 13:13	55501	HERS_T1	52	52	0	0.28	0.47	0.19	0	0	0	0	0	0	0	0
10/14/2024 13:13	55507	HERS_T1	0	0	0	0	0	0	0.09	0.13	0	0	0	0	0	0
10/14/2024 13:13	67605	WARW_T1	19	20	1	0.63	0.6	-0.03	-1.05	-1.03	0	0	0	0	0	0
10/14/2024 13:16	20603	GRWO_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
10/14/2024 13:16	55508	HERS_T2	4	2	-2	0.88	1.4	0.52	-2.53	-2.49	1	1	0	1200	1200	0
10/14/2024 13:18	13501	MCMI_T1	0	0	0	0	0	0	0.1	0.05	0	0	0	0	0	0
10/14/2024 13:18	55508	HERS_T2	4	2	-2	0.88	1.4	0.52	-2.53	-2.49	1	1	0	1200	1200	0
10/14/2024 13:19	24901	WHHA_T1	0	0	0	0	0	0	0.91	0.9	0	0	0	0	0	0
10/14/2024 13:21	13701	SCHN_T2	7	0	-7	0.29	0	-0.29	0	0	0	0	0	0	0	0
10/14/2024 13:21	13704	SCHN_T2	1	13	12	0.4	0	-0.4	-0.7	-0.69	0	0	0	0	0	0
10/14/2024 13:23	43304	WATS_T2	0	0	0	0	0	0	-0.58	-0.54	0	0	0	0	0	0
10/14/2024 13:26	67503	WEWI_T2	1	3	2	9.2	3.1	-6.1	0	0	0	0	0	0	0	0
10/14/2024 13:26	67502	WEWI_T2	1	12	11	0.4	0.42	0.02	-0.21	-0.12	0	0	0	0	0	0
10/14/2024 13:27	45902	AUBU_T1	0	0	0	0	0	0	-0.08	-0.12	1	1	0	600	600	0
10/14/2024 13:27	46205	DANV_T2	0	0	0	0	0	0	-0.8	-0.82	1	1	0	1200	1200	0
10/14/2024 13:28	67502	WEWI_T2	1	12	11	0.4	0.42	0.02	-0.21	-0.12	0	0	0	0	0	0
10/14/2024 13:28	67503	WEWI_T2	1	3	2	9.2	3.1	-6.1	0	0	0	0	0	0	0	0
10/14/2024 13:29	67502	WEWI_T2	1	12	11	0.4	0.42	0.02	0	0	0	0	0	0	0	0
10/14/2024 13:29	67503	WEWI_T2	1	3	2	9.2	3.1	-6.1	-0.23	-0.22	0	0	0	0	0	0
10/14/2024 13:31	24201	PROV_T3	1	1	0	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
10/14/2024 13:31	24204	PROV_T3	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
10/14/2024 13:31	64302	LINC_T2	0	0	0	0	0	0	1.04	1.03	0	0	0	0	0	0
10/14/2024 13:32	64305	LINC_T1	0	0	0	0	0	0	-0.14	-0.1	0	0	0	0	0	0
10/14/2024 13:37	13704	SCHN_T2	0	13	13	0	8.33	8.33	-0.35	-0.37	0	0	0	0	0	0
10/14/2024 13:42	45502	DERR_T2	0	1	1	0	0.2	0.2	0.41	0.16	0	1	1	0	300	300
10/14/2024 13:43	61801	EELI_T2	0	0	0	0	0	0	-0.27	-0.26	0	0	0	0	0	0
10/14/2024 13:47	46602	LACR_T1	0	1	1	0	0.2	0.2	-0.96	-0.95	0	0	0	0	0	0
10/14/2024 13:47	22901	HARW_T1	0	0	0	0	0	0	-0.24	-0.21	1	1	0	1200	1200	0
10/14/2024 13:49	65207	PRIN_T4	1	155	154	0.6	0.17	-0.43	0	0	2	2	0	1800	1800	0
10/14/2024 13:49	65206	PRIN_T4	1	22	21	5.7	0.11	-5.59	0	0	0	0	0	0	0	0
10/14/2024 13:49	65201	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 13:50	40101	HUNT_T2	1	1	0	1.2	0.5	-0.7	0	0	0	0	0	0	0	0
10/14/2024 13:52	65205	PRIN_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
10/14/2024 13:54	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 13:58	61801	EELI_T2	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
10/14/2024 14:00	55508	HERS_T2	5	2	-3	0.78	1.5	0.72	0	0	0	0	0	0	0	0
10/14/2024 14:01	55507	HERS_T1	5	0	-5	0.16	0	-0.16	0	0	0	0	0	0	0	0
10/14/2024 14:01	55501	HERS_T1	52	52	0	0.42	0.25	-0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/14/2024 14:01	55503	HERS_T1	0	0	0	0	0	0	-1.52	-1.5	1	1	0	1200	1200	0
10/14/2024 14:04	64801	MONE_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 14:04	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 14:04	64802	MONE_T2	11	10	-1	0.39	0.46	0.07	0.17	0.21	0	0	0	0	0	0
10/14/2024 14:04	58401	MORO_T1	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
10/14/2024 14:07	58401	MORO_T1	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
10/14/2024 14:13	41501	FAIR_T2	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
10/14/2024 14:14	23403	HONE_T1	0	1	1	0	0.1	0.1	-0.72	-0.73	0	0	0	0	0	0
10/14/2024 14:16	21901	HUMB_T1	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
10/14/2024 14:17	24702	FLND_T2	1	0	-1	0.1	0	-0.1	0.11	0.13	1	1	0	1200	1200	0
10/14/2024 14:26	43304	WATS_T2	0	0	0	0	0	0	-0.53	-0.57	0	0	0	0	0	0
10/14/2024 14:28	63804	HEMP_T1	5	1	-4	1.22	5.9	4.68	0	0	0	0	0	0	0	0
10/14/2024 14:28	63802	HEMP_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/14/2024 14:28	63801	HEMP_T1	6	5	-1	0.25	0.32	0.07	0	0	0	0	0	0	0	0
10/14/2024 14:28	63803	HEMP_T1	8	8	0	0.33	0.31	-0.02	0.21	0.23	0	0	0	0	0	0
10/14/2024 14:42	54501	ENOL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
10/14/2024 14:42	54502	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
10/14/2024 14:42	54505	ENOL_T2	1	2	1	0.8	0.8	0	-4.17	-4.14	3	3	0	1800	1800	0
10/14/2024 14:43	13302	ORVI_T2	1	0	-1	1.7	0	-1.7	0.03	0.08	0	0	0	0	0	0
10/14/2024 14:44	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 14:48	16102	BING_T2	0	6	6	0	0.38	0.38	0	0	0	0	0	0	0	0
10/14/2024 14:48	16103	BING_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/14/2024 14:48	16101	BING_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
10/14/2024 14:49	46801	HEPB_T2	1	2	1	0.1	0.5	0.4	0.49	0.5	0	0	0	0	0	0
10/14/2024 14:51	67401	WAKE_T2	1	2	1	0.2	0.2	0	-0.98	-1.03	0	0	0	0	0	0
10/14/2024 14:53	20403	ASHF_T2	1	34	33	0.6	0.22	-0.38	0.9	0.83	0	0	0	0	0	0
10/14/2024 14:53	20401	ASHF_T2	4	8	4	0.23	0.44	0.21	0	0	0	0	0	0	0	0
10/14/2024 14:55	15001	BLMO_T1	4	6	2	0.13	0.25	0.12	0	0	0	0	0	0	0	0
10/14/2024 14:55	63501	HEID_TBK1-2	3	1	-2	0.2	0.2	0	0.06	0	1	1	0	900	900	0
10/14/2024 14:56	15001	BLMO_T1	4	6	2	0.13	0.25	0.12	0	0	0	0	0	0	0	0
10/14/2024 14:58	20403	ASHF_T2	1	34	33	0.6	0.22	-0.38	0.9	0.83	0	0	0	0	0	0
10/14/2024 14:58	20401	ASHF_T2	4	8	4	0.23	0.44	0.21	0	0	0	0	0	0	0	0
10/14/2024 15:00	23201	HIRU_T2	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0	0
10/14/2024 15:00	14204	EALL_T2	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
10/14/2024 15:00	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.06	0	0	0	0	0	0
10/14/2024 15:02	64904	MILL_T1	0	0	0	0	0	0	0.56	0.47	0	0	0	0	0	0
10/14/2024 15:02	46101	MACI_T2	0	0	0	0	0	0	-1.34	-0.1	2	1	-1	2400	1200	-1200
10/14/2024 15:02	64901	MILL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/14/2024 15:05	54502	ENOL_T2	1	5	4	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
10/14/2024 15:05	54505	ENOL_T2	2	2	0	0.8	0.8	0	-1.38	-1.36	1	1	0	600	600	0
10/14/2024 15:05	54501	ENOL_T2	3	4	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/14/2024 15:08	54502	ENOL_T2	1	5	4	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
10/14/2024 15:08	54501	ENOL_T2	3	4	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/14/2024 15:08	54505	ENOL_T2	2	2	0	0.8	0.8	0	-1.36	-1.35	1	1	0	600	600	0
10/14/2024 15:09	54502	ENOL_T2	1	5	4	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
10/14/2024 15:09	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 15:09	13901	SEID_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/14/2024 15:09	54505	ENOL_T2	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/14/2024 15:09	54501	ENOL_T2	3	4	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/14/2024 15:09	42701	AUGU_T1	1	1	0	0.9	0.6	-0.3	0	0	2	2	0	1800	1800	0
10/14/2024 15:09	54504	ENOL_T2	0	0	0	0	0	0	-1.17	-1.17	1	1	0	600	600	0
10/14/2024 15:12	66502	SMAN_T2	0	0	0	0	0	0	0.12	0.28	0	0	0	0	0	0
10/14/2024 15:13	42701	AUGU_T1	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
10/14/2024 15:16	42701	AUGU_T1	1	1	0	0.6	0.1	-0.5	0	0	2	2	0	1800	1800	0
10/14/2024 15:17	46506	LOHA_T1	4	3	-1	3.98	5.53	1.55	0	0	0	0	0	0	0	0
10/14/2024 15:17	54502	ENOL_T2	2	5	3	0.25	0.3	0.05	0	0	0	0	0	0	0	0
10/14/2024 15:17	54501	ENOL_T2	4	4	0	0.15	0.23	0.08	0	0	0	0	0	0	0	0
10/14/2024 15:17	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
10/14/2024 15:17	54504	ENOL_T2	0	0	0	0	0	0	-1.17	-1.17	1	1	0	600	600	0
10/14/2024 15:17	54505	ENOL_T2	1	2	1	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
10/14/2024 15:19	64704	LITI_T1	0	0	0	0	0	0	0.41	0.29	1	1	0	600	600	0
10/14/2024 15:20	46506	LOHA_T1	4	3	-1	3.98	5.53	1.55	0	0	0	0	0	0	0	0
10/14/2024 15:20	14204	EALL_T2	0	0	0	0	0	0	0.24	-0.13	0	0	0	0	0	0
10/14/2024 15:20	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
10/14/2024 15:22	14204	EALL_T2	0	0	0	0	0	0	-0.13	-0.04	0	0	0	0	0	0
10/14/2024 15:28	61801	EELI_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
10/14/2024 15:31	54601	SUMM_T2	3	13	10	0.2	0.52	0.32	0	0	0	0	0	0	0	0
10/14/2024 15:31	54603	SUMM_T2	0	0	0	0	0	0	-0.38	-0.38	1	1	0	900	900	0
10/14/2024 15:32	54601	SUMM_T2	3	13	10	0.2	0.52	0.32	0	0	0	0	0	0	0	0
10/14/2024 15:32	23401	HONE_T2	0	0	0	0	0	0	-0.1	-0.15	0	0	0	0	0	0
10/14/2024 15:32	54603	SUMM_T2	0	0	0	0	0	0	-0.38	-0.38	1	1	0	900	900	0
10/14/2024 15:33	58401	MORO_T1	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
10/14/2024 15:35	58401	MORO_T1	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
10/14/2024 15:38	58401	MORO_T1	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
10/14/2024 15:41	67605	WARW_T1	30	39	9	0.51	0.51	0	-1.06	-1.08	0	0	0	0	0	0
10/14/2024 15:41	67603	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/14/2024 15:42	67603	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/14/2024 15:42	67605	WARW_T1	30	39	9	0.51	0.51	0	-1.06	-1.08	0	0	0	0	0	0
10/14/2024 15:43	67605	WARW_T1	30	39	9	0.51	0.51	0	-2.12	-2.16	0	0	0	0	0	0
10/14/2024 15:43	67603	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/14/2024 15:45	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 15:45	60801	BUCK_T1	0	1	1	0	0.1	0.1	-0.21	-0.18	0	0	0	0	0	0
10/14/2024 15:46	64902	MILL_T2	0	0	0	0	0	0	0.3	0.25	0	0	0	0	0	0
10/14/2024 15:47	42902	MIDD_T2	2	2	0	0.65	0.6	-0.05	-0.14	-0.25	0	0	0	0	0	0
10/14/2024 15:52	13302	ORVI_T2	1	1	0	0.8	0.8	0	0.06	0.04	0	0	0	0	0	0
10/14/2024 15:55	21705	SUBU_T1	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
10/14/2024 15:55	21703	SUBU_T1	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
10/14/2024 15:55	21701	SUBU_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
10/14/2024 15:56	42701	AUGU_T1	1	0	-1	0.1	0	-0.1	0	0	2	2	0	1800	1800	0
10/14/2024 16:03	52502	PROG_T2	0	0	0	0	0	0	-0.7	-0.74	1	1	0	900	900	0
10/14/2024 16:04	64204	KINZ_T1	1	58	57	0.7	0.39	-0.31	0	0	0	0	0	0	0	0
10/14/2024 16:04	64201	KINZ_T1	0	0	0	0	0	0	-1.09	-1.15	3	3	0	1500	1500	0
10/14/2024 16:04	64202	KINZ_T1	2	3	1	0.15	0.97	0.82	0	0	0	0	0	0	0	0
10/14/2024 16:04	12701	MACU_T1	0	0	0	0	0	0	0	-0.08	0	0	0	0	0	0
10/14/2024 16:04	59301	MCAL_T1	2	2	0	1.35	1.7	0.35	-1.61	-1.69	1	1	0	600	600	0
10/14/2024 16:05	64201	KINZ_T1	0	0	0	0	0	0	-1.09	-1.15	3	3	0	1500	1500	0
10/14/2024 16:05	64204	KINZ_T1	1	58	57	0.7	0.39	-0.31	0	0	0	0	0	0	0	0
10/14/2024 16:05	64202	KINZ_T1	2	3	1	0.15	0.97	0.82	0	0	0	0	0	0	0	0
10/14/2024 16:06	57203	ROSS_T1	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
10/14/2024 16:06	55002	NEWP_T1	6	6	0	0.53	0.67	0.14	0	0	0	0	0	0	0	0
10/14/2024 16:06	12701	MACU_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
10/14/2024 16:06	67103	SPRI_T1	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
10/14/2024 16:06	57205	ROSS_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
10/14/2024 16:06	55001	NEWP_T1	1	1	0	0.5	0.3	-0.2	-0.21	-0.25	0	0	0	0	0	0
10/14/2024 16:07	55002	NEWP_T1	6	6	0	0.53	0.67	0.14	0	0	0	0	0	0	0	0
10/14/2024 16:07	55001	NEWP_T1	1	1	0	0.5	0.3	-0.2	-0.25	-0.21	0	0	0	0	0	0
10/14/2024 16:08	41202	KENM_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/14/2024 16:08	55001	NEWP_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
10/14/2024 16:08	57203	ROSS_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
10/14/2024 16:08	55002	NEWP_T1	6	6	0	0.53	0.67	0.14	-0.22	-0.22	0	0	0	0	0	0
10/14/2024 16:08	41204	KENM_T2	0	0	0	0	0	0	-0.59	-0.64	0	0	0	0	0	0
10/14/2024 16:08	57205	ROSS_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
10/14/2024 16:09	65205	PRIN_T1	4	2	-2	0.55	1.7	1.15	0	0	0	0	0	0	0	0
10/14/2024 16:09	55002	NEWP_T1	6	6	0	0.53	0.67	0.14	0	0	0	0	0	0	0	0
10/14/2024 16:09	54505	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
10/14/2024 16:09	67604	WARW_T1	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
10/14/2024 16:09	55001	NEWP_T1	1	1	0	0.5	0.3	-0.2	-0.25	-0.21	0	0	0	0	0	0
10/14/2024 16:09	67603	WARW_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
10/14/2024 16:09	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 16:09	67605	WARW_T1	37	46	9	0.46	0.6	0.14	0	0	0	0	0	0	0	0
10/14/2024 16:09	23401	HONE_T2	0	450	450	0	0	0	-0.07	0.45	0	0	0	0	0	0
10/14/2024 16:09	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	-1.43	-1.4	0	0	0	0	0	0
10/14/2024 16:11	10602	BLGL_T2	3	2	-1	0.43	0.45	0.02	0	-0.01	0	0	0	0	0	0
10/14/2024 16:11	44302	BEAV_T2	0	2	2	0	0.2	0.2	0.23	0.23	0	0	0	0	0	0
10/14/2024 16:12	21206	ECAR_T2	1	2	1	6.6	6.8	0.2	0	0	0	0	0	0	0	0
10/14/2024 16:12	67605	WARW_T1	37	46	9	0.46	0.6	0.14	0	0	0	0	0	0	0	0
10/14/2024 16:12	21204	ECAR_T2	1	1	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
10/14/2024 16:12	67603	WARW_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
10/14/2024 16:12	67604	WARW_T1	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
10/14/2024 16:15	67604	WARW_T1	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
10/14/2024 16:15	67603	WARW_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
10/14/2024 16:15	67605	WARW_T1	43	43	0	0.57	0.58	0.01	0	0	0	0	0	0	0	0
10/14/2024 16:18	44703	MUNC_T2	2	2	0	1.25	1.4	0.15	0	0	0	0	0	0	0	0
10/14/2024 16:18	44702	MUNC_T2	53	87	34	0.21	0.28	0.07	0	0	0	0	0	0	0	0
10/14/2024 16:18	44701	MUNC_T2	1	4	3	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/14/2024 16:21	11205	ELHE_T1	1	1	0	6.3	2.7	-3.6	0	0	0	0	0	0	0	0
10/14/2024 16:21	11203	ELHE_T1	0	0	0	0	0	0	0.91	0.9	0	0	0	0	0	0
10/14/2024 16:25	15203	SFAR_T2	0	0	0	0	0	0	-2.72	-2.68	0	0	0	0	0	0
10/14/2024 16:26	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.34	0	0	0	0	0	0
10/14/2024 16:28	60201	ATGL_T2	0	0	0	0	0	0	0.6	0.64	0	0	0	0	0	0
10/14/2024 16:34	64702	LITI_T2	0	0	0	0	0	0	-0.73	-0.79	0	0	0	0	0	0
10/14/2024 16:35	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 16:36	64702	LITI_T2	0	0	0	0	0	0	-0.79	-0.76	0	0	0	0	0	0
10/14/2024 16:41	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	-0.28	-0.28	0	0	0	0	0	0
10/14/2024 16:41	55002	NEWP_T1	6	4	-2	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
10/14/2024 16:42	11205	ELHE_T1	1	1	0	2.7	0.2	-2.5	0	0	0	0	0	0	0	0
10/14/2024 16:42	11203	ELHE_T1	0	0	0	0	0	0	0.9	0.89	0	0	0	0	0	0
10/14/2024 16:46	16301	ALPA_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
10/14/2024 16:47	16301	ALPA_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
10/14/2024 16:48	65005	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/14/2024 16:48	65001	NEFF_T2	0	1	1	0	0.2	0.2	0.56	0.52	0	0	0	0	0	0
10/14/2024 16:48	16301	ALPA_T1	0	0	0	0	0	0	-0.04	0	0	0	0	0	0	0
10/14/2024 16:48	65003	NEFF_T2	5	176	171	0.2	0.32	0.12	0	0	0	0	0	0	0	0
10/14/2024 16:48	65004	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 16:50	65001	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/14/2024 16:50	65004	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 16:50	65005	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/14/2024 16:50	65003	NEFF_T2	5	176	171	0.2	0.32	0.12	-1.97	-1.98	2	2	0	1800	1800	0
10/14/2024 16:55	43304	WATS_T2	0	0	0	0	0	0	-0.57	-0.48	0	0	0	0	0	0
10/14/2024 16:55	43302	WATS_T2	4	4	0	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
10/14/2024 16:56	46002	BERW_T2	0	0	0	0	0	0	-1.14	-1.12	1	1	0	900	900	0
10/14/2024 16:58	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 16:58	43302	WATS_T2	4	4	0	0.18	0.15	-0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/14/2024 16:58	67501	WEWI_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 17:00	67501	WEWI_T1	0	9	9	0	0.1	0.1	-1.1	-1.01	1	1	0	600	600	0
10/14/2024 17:01	59302	MCAL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/14/2024 17:01	59301	MCAL_T1	2	2	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
10/14/2024 17:02	59301	MCAL_T1	2	2	0	1.7	1.6	-0.1	-3.8	-2.52	2	0	-2	1200	0	-1200
10/14/2024 17:02	59302	MCAL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/14/2024 17:05	67106	SPRI_T2	0	0	0	0	0	0	-1.18	-1.2	1	1	0	900	900	0
10/14/2024 17:06	59301	MCAL_T1	2	2	0	1.7	1.6	-0.1	-1.9	-1.26	1	0	-1	600	0	-600
10/14/2024 17:06	59302	MCAL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/14/2024 17:06	67106	SPRI_T2	0	0	0	0	0	0	-1.2	-1.2	1	1	0	900	900	0
10/14/2024 17:08	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 17:10	64903	MILL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 17:10	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/14/2024 17:10	64902	MILL_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
10/14/2024 17:13	60102	COCA_T1	0	0	0	0	0	0	-0.16	-0.03	2	2	0	1200	1200	0
10/14/2024 17:17	23203	HIRU_T2	2	0	-2	0.1	0	-0.1	0.06	0.08	0	0	0	0	0	0
10/14/2024 17:17	23201	HIRU_T2	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
10/14/2024 17:20	22701	MINO_T1	0	0	0	0	0	0	-1.17	-1.05	1	1	0	600	600	0
10/14/2024 17:23	59402	RFLD_T2	0	0	0	0	0	0	-0.88	-0.9	1	1	0	450	450	0
10/14/2024 17:26	22701	MINO_T1	0	0	0	0	0	0	-1.05	-1.12	1	1	0	600	600	0
10/14/2024 17:32	52001	LING_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
10/14/2024 18:01	67505	WEWI_T1	0	0	0	0	0	0	-0.18	-0.13	1	1	0	900	900	0
10/14/2024 18:01	67501	WEWI_T1	25	47	22	0.13	0.2	0.07	0	0	0	0	0	0	0	0
10/14/2024 18:02	67501	WEWI_T1	25	47	22	0.13	0.2	0.07	0	0	0	0	0	0	0	0
10/14/2024 18:02	67505	WEWI_T1	0	0	0	0	0	0	-0.18	-0.13	1	1	0	900	900	0
10/14/2024 18:03	52502	PROG_T2	0	0	0	0	0	0	-0.72	-0.73	1	1	0	900	900	0
10/14/2024 18:53	45902	AUBU_T1	0	0	0	0	0	0	0.17	0.19	1	1	0	600	600	0
10/14/2024 19:27	45902	AUBU_T1	0	0	0	0	0	0	0.21	0.21	1	1	0	600	600	0
10/14/2024 20:00	59402	RFLD_T2	0	0	0	0	0	0	-0.9	-0.91	1	1	0	450	450	0
10/14/2024 20:08	24702	FLND_T2	0	0	0	0	0	0	-0.21	-0.28	1	1	0	1200	1200	0
10/14/2024 20:09	24801	VALM_T1	0	0	0	0	0	0	-0.4	-0.35	0	0	0	0	0	0
10/14/2024 20:12	21701	SUBU_T1	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
10/14/2024 20:12	21705	SUBU_T1	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
10/14/2024 20:12	21703	SUBU_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
10/14/2024 20:12	23403	HONE_T1	0	0	0	0	0	0	-0.77	-0.66	0	0	0	0	0	0
10/14/2024 20:12	10602	BLGL_T2	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
10/14/2024 20:13	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
10/14/2024 20:13	67501	WEWI_T1	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
10/14/2024 20:13	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 20:13	15703	TANN_T2	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
10/14/2024 20:13	21206	ECAR_T2	1	1	0	7.1	7.4	0.3	1.26	1.29	0	0	0	0	0	0
10/14/2024 20:14	20201	JERM_T1	0	5	5	0	0.16	0.16	-0.96	1.59	2	0	-2	2400	0	-2400
10/14/2024 20:15	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
10/14/2024 20:15	13501	MCMI_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
10/14/2024 20:15	15703	TANN_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
10/14/2024 20:16	24206	PROV_T4	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/14/2024 20:16	17002	RIRO_T2	270	233	-37	0.26	0.21	-0.05	0.3	0.3	0	0	0	0	0	0
10/14/2024 20:16	24202	PROV_T4	98	57	-41	0.25	0.21	-0.04	0	0	1	1	0	1200	1200	0
10/14/2024 20:18	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:19	14204	EALL_T2	0	0	0	0	0	0	0.09	0.15	0	0	0	0	0	0
10/14/2024 20:19	21206	ECAR_T2	1	1	0	7.4	6.9	-0.5	0	0	0	0	0	0	0	0
10/14/2024 20:19	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
10/14/2024 20:19	15203	SFAR_T2	0	0	0	0	0	0	-1.33	-1.34	0	0	0	0	0	0
10/14/2024 20:19	61701	ELIZ_T1	1	1	0	4.6	4.9	0.3	0.24	0.06	0	0	0	0	0	0
10/14/2024 20:19	13503	MCMI_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
10/14/2024 20:19	15703	TANN_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
10/14/2024 20:19	21204	ECAR_T2	1	1	0	0.1	0	-0.1	-0.69	-0.74	0	0	0	0	0	0
10/14/2024 20:20	23203	HIRU_T2	2	0	-2	0.1	0	-0.1	0.09	-0.01	0	0	0	0	0	0
10/14/2024 20:20	24205	PROV_T3	12	0	-12	0.13	0	-0.13	0	0	0	0	0	0	0	0
10/14/2024 20:20	48901	FOSP_T2	0	0	0	0	0	0	-0.39	-0.4	1	1	0	600	600	0
10/14/2024 20:20	25402	LAHA_T2	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
10/14/2024 20:20	24204	PROV_T3	46	35	-11	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
10/14/2024 20:20	25404	LAHA_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/14/2024 20:20	24201	PROV_T3	219	112	-107	0.19	0.18	-0.01	0	0	1	1	0	1200	1200	0
10/14/2024 20:20	23201	HIRU_T2	3	2	-1	0.33	0.1	-0.23	0	0	0	0	0	0	0	0
10/14/2024 20:20	23202	HIRU_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/14/2024 20:21	23202	HIRU_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/14/2024 20:21	46004	BERW_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
10/14/2024 20:21	46002	BERW_T2	0	0	0	0	0	0	-1.22	-1.22	1	1	0	900	900	0
10/14/2024 20:21	10805	CHHI_T2	1	2	1	7.9	7.8	-0.1	-0.8	-0.79	0	0	0	0	0	0
10/14/2024 20:21	23201	HIRU_T2	3	2	-1	0.33	0.1	-0.23	0	0	0	0	0	0	0	0
10/14/2024 20:21	16103	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:21	23203	HIRU_T2	2	0	-2	0.1	0	-0.1	0.09	-0.01	0	0	0	0	0	0
10/14/2024 20:21	16101	BING_T2	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
10/14/2024 20:21	15203	SFAR_T2	0	0	0	0	0	0	-1.33	-1.34	0	0	0	0	0	0
10/14/2024 20:21	16102	BING_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/14/2024 20:22	67503	WEWI_T2	1	1	0	8.3	8.5	0.2	-0.31	-0.3	0	0	0	0	0	0
10/14/2024 20:22	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 20:22	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	-1.36	-1.36	1	1	0	600	600	0
10/14/2024 20:22	50105	HARR_T3	6	6	0	5.72	5.82	0.1	0	0	0	0	0	0	0	0
10/14/2024 20:22	67502	WEWI_T2	41	217	176	0.15	0.27	0.12	0	0	0	0	0	0	0	0
10/14/2024 20:22	50107	HARR_T3	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
10/14/2024 20:22	50201	HARR_T3	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/14/2024 20:22	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.36	0	0	0	0	0	0
10/14/2024 20:22	50103	HARR_T3	2	1	-1	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
10/14/2024 20:23	14802	TREI_T2	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
10/14/2024 20:23	51704	OBER_T1	0	0	0	0	0	0	-0.34	-0.41	0	0	0	0	0	0
10/14/2024 20:23	45302	WBER_T2	0	0	0	0	0	0	0.72	0.76	0	0	0	0	0	0
10/14/2024 20:23	45303	WBER_T2	1	1	0	9.4	9.5	0.1	0	0	0	0	0	0	0	0
10/14/2024 20:23	24104	EHAZ_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	1200	1200	0
10/14/2024 20:23	51702	OBER_T1	2	2	0	3.25	3.45	0.2	0	0	0	0	0	0	0	0
10/14/2024 20:23	24101	EHAZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/14/2024 20:23	24105	EHAZ_T1	4	4	0	5.58	5.73	0.15	0	0	0	0	0	0	0	0
10/14/2024 20:23	14203	EALL_T1	0	0	0	0	0	0	0.86	0.76	0	0	0	0	0	0
10/14/2024 20:23	65001	NEFF_T2	0	0	0	0	0	0	0.3	0.37	0	0	0	0	0	0
10/14/2024 20:24	13905	SEID_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
10/14/2024 20:24	24101	EHAZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/14/2024 20:24	20402	ASHF_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/14/2024 20:24	65207	PRIN_T4	2	10	8	0.5	0.2	-0.3	0	0	1	1	0	1200	1200	0
10/14/2024 20:24	63501	HEID_TBK1-2	27	13	-14	0.17	0.15	-0.02	0.33	0.34	0	0	0	0	0	0
10/14/2024 20:24	65206	PRIN_T4	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
10/14/2024 20:24	14802	TREI_T2	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
10/14/2024 20:24	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:24	24105	EHAZ_T1	4	4	0	5.58	5.73	0.15	0	0	0	0	0	0	0	0
10/14/2024 20:24	20403	ASHF_T2	2	0	-2	0.15	0	-0.15	0.09	0.1	0	0	0	0	0	0
10/14/2024 20:24	21901	HUMB_T1	0	0	0	0	0	0	-0.89	-0.93	0	0	0	0	0	0
10/14/2024 20:24	20401	ASHF_T2	14	9	-5	0.45	0.58	0.13	0	0	0	0	0	0	0	0
10/14/2024 20:24	24104	EHAZ_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	1200	1200	0
10/14/2024 20:25	65503	MOJO_T2	24	0	-24	0.11	0	-0.11	-0.39	-0.43	0	0	0	0	0	0
10/14/2024 20:25	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/14/2024 20:25	50103	HARR_T3	2	1	-1	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
10/14/2024 20:25	50201	HARR_T3	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/14/2024 20:25	65502	MOJO_T2	136	23	-113	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
10/14/2024 20:25	52502	PROG_T2	0	0	0	0	0	0	-0.71	-0.72	1	1	0	900	900	0
10/14/2024 20:25	67605	WARW_T1	14	14	0	0.49	0.52	0.03	-1.11	-1.07	0	0	0	0	0	0
10/14/2024 20:25	14204	EALL_T2	0	0	0	0	0	0	0.15	0.06	0	0	0	0	0	0
10/14/2024 20:25	11604	CEAL_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:25	13302	OIVI_T2	1	0	-1	5.8	0	-5.8	0.02	-0.02	0	0	0	0	0	0
10/14/2024 20:25	13503	MCMI_T2	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
10/14/2024 20:25	50107	HARR_T3	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
10/14/2024 20:25	50105	HARR_T3	6	6	0	5.72	5.82	0.1	0	0	0	0	0	0	0	0
10/14/2024 20:25	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:26	15001	BLMO_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/14/2024 20:26	44502	HAMI_T2	1	1	0	3.1	3.3	0.2	0	0	0	0	0	0	0	0
10/14/2024 20:26	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.36	0	0	0	0	0	0
10/14/2024 20:26	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:26	63601	LETO_T1	5	3	-2	0.48	0.57	0.09	0.91	1.04	1	1	0	900	900	0
10/14/2024 20:26	44503	HAMI_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
10/14/2024 20:26	14204	EALL_T2	0	0	0	0	0	0	0.15	0.06	0	0	0	0	0	0
10/14/2024 20:26	16102	BING_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/14/2024 20:26	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.26	-0.26	0	0	0	0	0	0
10/14/2024 20:26	67605	WARW_T1	14	14	0	0.49	0.52	0.03	-1.11	-1.07	0	0	0	0	0	0
10/14/2024 20:26	20603	GRWO_T2	2	0	-2	0.1	0	-0.1	0.31	0.33	0	0	0	0	0	0
10/14/2024 20:26	16103	BING_T2	0	1	1	0	0	0	-1.09	-1.09	2	2	0	1500	1500	0
10/14/2024 20:26	63602	LETO_T1	75	76	1	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
10/14/2024 20:27	65503	MOJO_T2	24	0	-24	0.11	0	-0.11	0	0	0	0	0	0	0	0
10/14/2024 20:27	67106	SPRI_T2	0	0	0	0	0	0	-1.31	-1.34	1	1	0	900	900	0
10/14/2024 20:27	14801	TREI_T2	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
10/14/2024 20:27	11202	ELHE_T2	0	0	0	0	0	0	0.39	0.36	1	1	0	1200	1200	0
10/14/2024 20:27	66504	SMAN_T2	0	0	0	0	0	0	-1.69	-1.85	0	0	0	0	0	0
10/14/2024 20:27	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:27	47401	PENS_T1	0	0	0	0	0	0	0.26	0.18	0	0	0	0	0	0
10/14/2024 20:27	46001	BERW_T1	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
10/14/2024 20:27	66505	SMAN_T2	3	3	0	1.37	1.37	0	0	0	0	0	0	0	0	0
10/14/2024 20:27	46602	LACR_T1	0	0	0	0	0	0	-1.17	-1.2	0	0	0	0	0	0
10/14/2024 20:27	65502	MOJO_T2	136	23	-113	0.14	0.1	-0.04	-1.07	-1.08	0	0	0	0	0	0
10/14/2024 20:27	53501	EVIL_T2	0	0	0	0	0	0	-1.69	-1.7	2	2	0	1200	1200	0
10/14/2024 20:27	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:28	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	-1.36	-1.36	1	1	0	600	600	0
10/14/2024 20:28	65206	PRIN_T4	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
10/14/2024 20:28	64203	KINZ_T1	38	83	45	0.28	0.35	0.07	0	0	0	0	0	0	0	0
10/14/2024 20:28	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
10/14/2024 20:28	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.26	-0.26	0	0	0	0	0	0
10/14/2024 20:28	52502	PROG_T2	0	0	0	0	0	0	-0.71	-0.72	1	1	0	900	900	0
10/14/2024 20:28	63501	HEID_TBK1-2	27	13	-14	0.17	0.15	-0.02	0.33	0.34	0	0	0	0	0	0
10/14/2024 20:28	64202	KINZ_T1	15	38	23	0.28	0.28	0	0	0	0	0	0	0	0	0
10/14/2024 20:28	65207	PRIN_T4	2	10	8	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
10/14/2024 20:28	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:28	64201	KINZ_T1	7	21	14	0.63	0.4	-0.23	-0.71	-0.83	3	3	0	1500	1500	0
10/14/2024 20:28	44502	HAMI_T2	1	1	0	3.1	3.3	0.2	-0.92	-0.92	0	0	0	0	0	0
10/14/2024 20:28	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 20:28	66504	SMAN_T2	0	0	0	0	0	0	-0.56	-0.62	0	0	0	0	0	0
10/14/2024 20:28	67503	WEWI_T2	1	1	0	8.3	8.5	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/14/2024 20:28	64704	LITI_T1	0	0	0	0	0	0	0.93	0.92	0	0	0	0	0	0
10/14/2024 20:28	66505	SMAN_T2	3	3	0	1.37	1.37	0	-0.33	-0.48	1	1	0	900	900	0
10/14/2024 20:28	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:28	67502	WEWI_T2	41	217	176	0.15	0.27	0.12	-0.53	-0.49	0	0	0	0	0	0
10/14/2024 20:28	64204	KINZ_T1	56	266	210	0.34	0.29	-0.05	0	0	0	0	0	0	0	0
10/14/2024 20:28	65205	PRIN_T1	1	2	1	1.5	1.7	0.2	0	0	0	0	0	0	0	0
10/14/2024 20:29	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:29	64902	MILL_T2	0	0	0	0	0	0	0.2	0.16	0	0	0	0	0	0
10/14/2024 20:29	66505	SMAN_T2	3	3	0	1.37	1.37	0	0	0	0	0	0	0	0	0
10/14/2024 20:29	44301	BEAV_T2	1	2	1	0.8	0	-0.8	0	0	0	0	0	0	0	0
10/14/2024 20:29	67503	WEWI_T2	1	1	0	8.3	8.5	0.2	-0.31	-0.3	0	0	0	0	0	0
10/14/2024 20:29	65503	MOJO_T2	24	0	-24	0.11	0	-0.11	-0.39	-0.43	0	0	0	0	0	0
10/14/2024 20:29	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
10/14/2024 20:29	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.08	0	0	0	0	0	0
10/14/2024 20:29	60801	BUCK_T1	0	0	0	0	0	0	-0.23	-0.28	0	0	0	0	0	0
10/14/2024 20:29	66504	SMAN_T2	0	0	0	0	0	0	-0.56	-0.62	0	0	0	0	0	0
10/14/2024 20:29	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:29	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
10/14/2024 20:29	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/14/2024 20:29	48901	FOSP_T2	0	0	0	0	0	0	-0.8	-0.8	2	2	0	1200	1200	0
10/14/2024 20:29	65502	MOJO_T2	136	23	-113	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
10/14/2024 20:29	67501	WEWI_T1	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
10/14/2024 20:29	13704	SCHN_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
10/14/2024 20:29	14801	TREI_T2	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
10/14/2024 20:29	44302	BEAV_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
10/14/2024 20:29	67502	WEWI_T2	41	217	176	0.15	0.27	0.12	0	0	0	0	0	0	0	0
10/14/2024 20:29	46001	BERW_T1	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
10/14/2024 20:29	60201	ATGL_T2	0	5	5	0	0.1	0.1	0.57	0.57	0	0	0	0	0	0
10/14/2024 20:30	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:30	16301	ALPA_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
10/14/2024 20:30	67604	WARW_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
10/14/2024 20:30	48902	FOSP_T2	0	0	0	0	0	0	-0.01	-0.06	0	0	0	0	0	0
10/14/2024 20:30	67502	WEWI_T2	214	130	-84	0.27	0.22	-0.05	-1.06	-0.99	0	0	0	0	0	0
10/14/2024 20:30	67505	WEWI_T1	0	0	0	0	0	0	-0.21	-0.19	1	1	0	900	900	0
10/14/2024 20:30	13302	ORVI_T2	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
10/14/2024 20:30	46101	MACI_T2	0	0	0	0	0	0	-0.6	-0.61	1	1	0	1200	1200	0
10/14/2024 20:30	43302	WATS_T2	4	4	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
10/14/2024 20:30	67503	WEWI_T2	1	1	0	8.3	8.5	0.2	0	0	0	0	0	0	0	0
10/14/2024 20:30	43304	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/14/2024 20:30	55002	NEWP_T1	1	0	-1	0.1	0	-0.1	-0.52	-0.52	0	0	0	0	0	0
10/14/2024 20:30	67501	WEWI_T1	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
10/14/2024 20:30	67103	SPRI_T1	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
10/14/2024 20:30	67605	WARW_T1	14	15	1	0.49	0.52	0.03	0	0	0	0	0	0	0	0
10/14/2024 20:30	10101	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:30	63501	HEID_TBK1-2	12	2	-10	0.16	0.1	-0.06	0.33	0.34	0	0	0	0	0	0
10/14/2024 20:30	67603	WARW_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
10/14/2024 20:30	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.36	0	0	0	0	0	0
10/14/2024 20:30	43301	WATS_T2	0	0	0	0	0	0	0.2	0.16	0	0	0	0	0	0
10/14/2024 20:30	44601	SALE_T2	0	1	1	0	0.2	0.2	-0.19	-0.19	0	0	0	0	0	0
10/14/2024 20:30	24901	WHHA_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
10/14/2024 20:30	66505	SMAN_T2	3	3	0	1.37	1.37	0	0	0	0	0	0	0	0	0
10/14/2024 20:30	66504	SMAN_T2	0	0	0	0	0	0	-0.56	-0.62	0	0	0	0	0	0
10/14/2024 20:30	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:31	40502	CRES_T2	12	15	3	0.13	0.12	-0.01	-0.37	-0.38	0	0	0	0	0	0
10/14/2024 20:31	64203	KINZ_T1	83	52	-31	0.35	0.18	-0.17	0	0	0	0	0	0	0	0
10/14/2024 20:31	55001	NEWP_T1	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
10/14/2024 20:31	48902	FOSP_T2	0	0	0	0	0	0	-0.02	-0.12	0	0	0	0	0	0
10/14/2024 20:31	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:31	66001	RHEE_T2	0	0	0	0	0	0	-1.82	-1.84	2	2	0	2100	2100	0
10/14/2024 20:31	65602	QVIL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/14/2024 20:31	14802	TREI_T2	0	0	0	0	0	0	0.79	0.7	0	0	0	0	0	0
10/14/2024 20:31	65205	PRIN_T1	1	2	1	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
10/14/2024 20:31	64204	KINZ_T1	261	258	-3	0.28	0.28	0	0	0	0	0	0	0	0	0
10/14/2024 20:31	66505	SMAN_T2	3	3	0	1.37	1.37	0	0	0	0	0	0	0	0	0
10/14/2024 20:31	21501	CEAV_T2	0	0	0	0	0	0	-0.31	-0.35	1	1	0	1200	1200	0
10/14/2024 20:31	65603	QVIL_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/14/2024 20:31	64201	KINZ_T1	21	17	-4	0.4	0.36	-0.04	-0.71	-0.83	3	3	0	1500	1500	0
10/14/2024 20:31	64305	LINC_T1	0	0	0	0	0	0	-0.63	-0.69	0	0	0	0	0	0
10/14/2024 20:31	54501	ENOL_T2	0	0	0	0	0	0	0.22	0.11	0	0	0	0	0	0
10/14/2024 20:31	64302	LINC_T2	0	0	0	0	0	0	0.89	0.89	0	0	0	0	0	0
10/14/2024 20:31	65202	PRIN_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:31	55002	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/14/2024 20:31	66502	SMAN_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
10/14/2024 20:31	64202	KINZ_T1	34	32	-2	0.31	0.22	-0.09	0	0	0	0	0	0	0	0
10/14/2024 20:31	67605	WARW_T1	14	15	1	0.49	0.52	0.03	0	0	0	0	0	0	0	0
10/14/2024 20:31	54502	ENOL_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/14/2024 20:31	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:31	43304	WATS_T2	1	0	-1	0.3	0	-0.3	-0.53	-0.55	0	0	0	0	0	0
10/14/2024 20:31	65604	QVIL_T2	1	2	1	0.1	0.15	0.05	0.28	0.25	0	0	0	0	0	0
10/14/2024 20:31	48901	FOSP_T2	0	0	0	0	0	0	-0.4	-0.4	1	1	0	600	600	0
10/14/2024 20:31	43302	WATS_T2	4	4	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
10/14/2024 20:31	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:31	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
10/14/2024 20:31	65601	QVIL_T2	94	122	28	0.27	0.27	0	0	0	0	0	0	0	0	0
10/14/2024 20:32	59301	MCAL_T1	2	2	0	0.6	0.2	-0.4	-1.26	-1.29	0	0	0	0	0	0
10/14/2024 20:32	42903	MIDD_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
10/14/2024 20:32	46001	BERW_T1	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
10/14/2024 20:32	53501	EVIL_T2	0	1	1	0	0.1	0.1	-0.85	-0.85	1	1	0	600	600	0
10/14/2024 20:32	12701	MACU_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
10/14/2024 20:32	16301	ALPA_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
10/14/2024 20:32	57403	SPAN_T1	2	2	0	0.85	0.55	-0.3	0	0	0	0	0	0	0	0
10/14/2024 20:32	67505	WEWI_T1	0	0	0	0	0	0	-0.21	-0.19	1	1	0	900	900	0
10/14/2024 20:32	42902	MIDD_T2	0	0	0	0	0	0	-0.37	-0.28	0	0	0	0	0	0
10/14/2024 20:32	67605	WARW_T1	14	15	1	0.49	0.52	0.03	-2.23	-2.14	0	0	0	0	0	0
10/14/2024 20:32	57403	SPAN_T1	2	8	6	0.1	0.18	0.08	0.04	0.02	0	0	0	0	0	0
10/14/2024 20:32	45501	DERR_T2	0	0	0	0	0	0	0.3	0.3	2	2	0	1800	1800	0
10/14/2024 20:32	52001	LING_T1	0	0	0	0	0	0	0.16	0.1	0	0	0	0	0	0
10/14/2024 20:32	45502	DERR_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
10/14/2024 20:32	10801	CHHI_T1	0	0	0	0	0	0	-1	-1.02	1	1	0	900	900	0
10/14/2024 20:32	45902	AUBU_T1	0	0	0	0	0	0	0.18	0.18	1	1	0	600	600	0
10/14/2024 20:32	63501	HEID_TBK1-2	12	2	-10	0.16	0.1	-0.06	0.33	0.34	0	0	0	0	0	0
10/14/2024 20:32	66505	SMAN_T2	3	3	0	1.37	1.37	0	-0.33	-0.48	1	1	0	900	900	0
10/14/2024 20:32	13704	SCHN_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
10/14/2024 20:32	67604	WARW_T1	0	0	0	0	0	0	0.9	0.88	0	0	0	0	0	0
10/14/2024 20:32	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.36	0	0	0	0	0	0
10/14/2024 20:33	43302	WATS_T2	4	4	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
10/14/2024 20:33	43304	WATS_T2	1	0	-1	0.3	0	-0.3	-0.53	-0.55	0	0	0	0	0	0
10/14/2024 20:33	55001	NEWP_T1	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
10/14/2024 20:33	64204	KINZ_T1	261	258	-3	0.28	0.28	0	0	0	0	0	0	0	0	0
10/14/2024 20:33	67503	WEWI_T2	1	1	0	8.3	8.5	0.2	0	0	0	0	0	0	0	0
10/14/2024 20:33	55002	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/14/2024 20:33	16301	ALPA_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
10/14/2024 20:33	45702	LIND_T2	0	1	1	0	0.2	0.2	-0.54	-0.52	0	0	0	0	0	0
10/14/2024 20:33	64202	KINZ_T1	34	32	-2	0.31	0.22	-0.09	0	0	0	0	0	0	0	0
10/14/2024 20:33	60103	COCA_T2	0	0	0	0	0	0	-1.66	-1.72	1	1	0	1200	1200	0
10/14/2024 20:33	63602	LETO_T1	1	79	78	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/14/2024 20:33	55508	HERS_T2	2	2	0	1.5	1.3	-0.2	-2.64	-2.59	1	1	0	1200	1200	0
10/14/2024 20:33	67401	WAKE_T2	0	0	0	0	0	0	-1.07	-1.03	0	0	0	0	0	0
10/14/2024 20:33	55102	WERT_T2	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
10/14/2024 20:33	45501	DERR_T2	0	0	0	0	0	0	0.3	0.3	2	2	0	1800	1800	0
10/14/2024 20:33	13704	SCHN_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
10/14/2024 20:33	64203	KINZ_T1	83	52	-31	0.35	0.18	-0.17	0	0	0	0	0	0	0	0
10/14/2024 20:33	63601	LETO_T1	3	2	-1	0.57	0.75	0.18	0.91	1.04	1	1	0	900	900	0
10/14/2024 20:33	63804	HEMP_T1	1	1	0	5.2	5.3	0.1	0.73	0.74	0	0	0	0	0	0
10/14/2024 20:33	64201	KINZ_T1	21	17	-4	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
10/14/2024 20:33	67502	WEWI_T2	214	130	-84	0.27	0.22	-0.05	-0.53	-0.49	0	0	0	0	0	0
10/14/2024 20:33	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
10/14/2024 20:34	41901	REED_T1	3	4	1	0.17	0.18	0.01	0	0	0	0	0	0	0	0
10/14/2024 20:34	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/14/2024 20:34	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.09	0.1	0	0	0	0	0	0
10/14/2024 20:34	20401	ASHF_T2	8	9	1	0.55	0.64	0.09	0	0	0	0	0	0	0	0
10/14/2024 20:34	57203	ROSS_T1	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
10/14/2024 20:34	45702	LIND_T2	0	1	1	0	0.2	0.2	-0.54	-0.52	0	0	0	0	0	0
10/14/2024 20:34	55101	WERT_T1	0	0	0	0	0	0	-1.23	-1.31	1	1	0	600	600	0
10/14/2024 20:34	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:34	64702	LITI_T2	0	0	0	0	0	0	-0.81	-0.73	0	0	0	0	0	0
10/14/2024 20:34	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
10/14/2024 20:34	12701	MACU_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
10/14/2024 20:34	41902	REED_T1	1	2	1	0.3	0	-0.3	1.74	1.79	0	0	0	0	0	0
10/14/2024 20:34	66505	SMAN_T2	3	3	0	1.37	1.37	0	0	0	0	0	0	0	0	0
10/14/2024 20:34	64902	MILL_T2	0	0	0	0	0	0	0.2	0.16	0	0	0	0	0	0
10/14/2024 20:34	53501	EVIL_T2	0	1	1	0	0.1	0.1	-0.85	-0.85	1	1	0	600	600	0
10/14/2024 20:34	16301	ALPA_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
10/14/2024 20:34	54505	ENOL_T2	1	1	0	0.7	0.7	0	-4.08	-4.08	3	3	0	1800	1800	0
10/14/2024 20:34	54502	ENOL_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/14/2024 20:34	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:34	67203	TEHI_T1	0	0	0	0	0	0	4.17	4.28	4	4	0	3000	3000	0
10/14/2024 20:35	64802	MONE_T2	1	1	0	0.1	0.1	0	0.09	0.2	0	0	0	0	0	0
10/14/2024 20:35	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
10/14/2024 20:35	54502	ENOL_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/14/2024 20:35	67503	WEWI_T2	1	1	0	8.3	8.5	0.2	0	0	0	0	0	0	0	0
10/14/2024 20:35	41902	REED_T1	1	2	1	0.3	0	-0.3	0.87	0.89	0	0	0	0	0	0
10/14/2024 20:35	54504	ENOL_T2	0	0	0	0	0	0	-1.14	-1.14	1	1	0	600	600	0
10/14/2024 20:35	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:35	63803	HEMP_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
10/14/2024 20:35	64704	LITI_T1	0	0	0	0	0	0	0.93	0.92	0	0	0	0	0	0
10/14/2024 20:35	43302	WATS_T2	4	4	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
10/14/2024 20:35	67502	WEWI_T2	214	130	-84	0.27	0.22	-0.05	-0.53	-0.49	0	0	0	0	0	0
10/14/2024 20:35	59301	MCAL_T1	2	2	0	0.6	0.2	-0.4	-1.26	-1.29	0	0	0	0	0	0
10/14/2024 20:35	41901	REED_T1	3	4	1	0.17	0.18	0.01	0	0	0	0	0	0	0	0
10/14/2024 20:35	40101	HUNT_T2	3	2	-1	0.67	0.1	-0.57	0	0	0	0	0	0	0	0
10/14/2024 20:35	64801	MONE_T2	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
10/14/2024 20:35	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/14/2024 20:35	53501	EVIL_T2	0	1	1	0	0.1	0.1	-0.85	-0.85	1	1	0	600	600	0
10/14/2024 20:35	63804	HEMP_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
10/14/2024 20:35	66505	SMAN_T2	3	3	0	1.37	1.37	0	0	0	0	0	0	0	0	0
10/14/2024 20:35	43304	WATS_T2	1	0	-1	0.3	0	-0.3	-0.53	-0.55	0	0	0	0	0	0
10/14/2024 20:35	66503	SMAN_T2	0	0	0	0	0	0	0.32	0.28	0	0	0	0	0	0
10/14/2024 20:36	54505	ENOL_T2	1	1	0	0.7	0.7	0	-1.36	-1.36	1	1	0	600	600	0
10/14/2024 20:36	54502	ENOL_T2	1	2	1	0.1	0.2	0.1	-1.38	-1.37	0	0	0	0	0	0
10/14/2024 20:36	41301	FISH_T1	2	3	1	1.35	1.13	-0.22	0	0	0	0	0	0	0	0
10/14/2024 20:36	67501	WEWI_T1	0	0	0	0	0	0	-0.68	-0.72	0	0	0	0	0	0
10/14/2024 20:36	44502	HAMI_T2	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
10/14/2024 20:36	44703	MUNC_T2	2	2	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
10/14/2024 20:36	44505	HAMI_T2	0	0	0	0	0	0	0.42	0.49	0	0	0	0	0	0
10/14/2024 20:36	67502	WEWI_T2	214	130	-84	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
10/14/2024 20:36	67503	WEWI_T2	1	1	0	8.3	8.5	0.2	-0.3	-0.3	0	0	0	0	0	0
10/14/2024 20:36	55002	NEWP_T1	1	0	-1	0.1	0	-0.1	-0.26	-0.26	0	0	0	0	0	0
10/14/2024 20:36	64902	MILL_T2	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
10/14/2024 20:36	41303	FISH_T1	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
10/14/2024 20:36	55102	WERT_T2	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
10/14/2024 20:36	44702	MUNC_T2	62	113	51	0.2	0.34	0.14	0	0	0	0	0	0	0	0
10/14/2024 20:36	44701	MUNC_T2	7	26	19	0.16	0.18	0.02	0	0	0	0	0	0	0	0
10/14/2024 20:36	67106	SPRI_T2	0	0	0	0	0	0	-1.34	-1.33	1	1	0	900	900	0
10/14/2024 20:37	61801	EELI_T2	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
10/14/2024 20:37	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
10/14/2024 20:37	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
10/14/2024 20:37	59301	MCAL_T1	2	2	0	0.6	0.2	-0.4	-1.29	-1.3	0	0	0	0	0	0
10/14/2024 20:37	46506	LOHA_T1	4	4	0	3.58	3.2	-0.38	0	0	0	0	0	0	0	0
10/14/2024 20:37	58401	MORO_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
10/14/2024 20:37	53501	EVIL_T2	0	1	1	0	0.1	0.1	-0.85	-0.85	1	1	0	600	600	0
10/14/2024 20:37	43302	WATS_T2	4	4	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
10/14/2024 20:37	45502	DERR_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
10/14/2024 20:37	15001	BLMO_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
10/14/2024 20:37	67201	TEHI_T1	0	0	0	0	0	0	0.2	0.11	1	1	0	900	900	0
10/14/2024 20:37	63804	HEMP_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
10/14/2024 20:37	60102	COCA_T1	0	0	0	0	0	0	-0.43	0.01	2	2	0	1200	1200	0
10/14/2024 20:37	67605	WARW_T1	14	15	1	0.49	0.52	0.03	-1.07	-1.14	0	0	0	0	0	0
10/14/2024 20:37	63801	HEMP_T1	0	0	0	0	0	0	-0.22	0.05	0	0	0	0	0	0
10/14/2024 20:37	43304	WATS_T2	1	0	-1	0.3	0	-0.3	-0.55	-0.6	0	0	0	0	0	0
10/14/2024 20:37	55101	WERT_T1	0	0	0	0	0	0	-1.31	-1.31	1	1	0	600	600	0
10/14/2024 20:38	64901	MILL_T1	11	12	1	0.11	0.12	0.01	0	0	0	0	0	0	0	0
10/14/2024 20:38	64801	MONE_T2	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
10/14/2024 20:38	57401	SPAN_T1	2	2	0	0.85	0.55	-0.3	0	0	0	0	0	0	0	0
10/14/2024 20:38	43302	WATS_T2	4	4	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
10/14/2024 20:38	64802	MONE_T2	1	1	0	0.1	0.1	0	0.2	0.17	0	0	0	0	0	0
10/14/2024 20:38	57403	SPAN_T1	2	8	6	0.1	0.18	0.08	0.02	0.03	0	0	0	0	0	0
10/14/2024 20:38	43304	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/14/2024 20:38	57203	ROSS_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
10/14/2024 20:38	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:38	43801	SWIL_T1	2	2	0	3.25	3.25	0	0	0	0	0	0	0	0	0
10/14/2024 20:38	54603	SUMM_T2	0	0	0	0	0	0	-0.56	-0.55	1	1	0	900	900	0
10/14/2024 20:38	54601	SUMM_T2	9	7	-2	0.46	0.47	0.01	0	0	0	0	0	0	0	0
10/14/2024 20:38	64904	MILL_T1	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
10/14/2024 20:38	43802	SWIL_T1	0	0	0	0	0	0	-0.09	-0.07	1	1	0	600	600	0
10/14/2024 20:39	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.11	0	0	0	0	0	0
10/14/2024 20:39	28403	HART_T2	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
10/14/2024 20:39	43302	WATS_T2	4	4	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
10/14/2024 20:39	63804	HEMP_T1	1	1	0	5.2	5.3	0.1	0.74	0.73	0	0	0	0	0	0
10/14/2024 20:39	65502	MOJO_T2	23	0	-23	0.1	0	-0.1	-1.08	-1.13	0	0	0	0	0	0
10/14/2024 20:39	66504	SMAN_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
10/14/2024 20:39	55503	HERS_T1	0	0	0	0	0	0	-1.64	-1.64	1	1	0	1200	1200	0
10/14/2024 20:39	67501	WEWI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 20:39	63501	HEID_TBK1-2	12	2	-10	0.16	0.1	-0.06	0.34	0.33	0	0	0	0	0	0
10/14/2024 20:39	55501	HERS_T1	52	52	0	0.3	0.12	-0.18	0	0	0	0	0	0	0	0
10/14/2024 20:39	43304	WATS_T2	1	0	-1	0.3	0	-0.3	-0.55	-0.6	0	0	0	0	0	0
10/14/2024 20:39	67605	WARW_T1	14	15	1	0.49	0.52	0.03	-1.07	-1.14	0	0	0	0	0	0
10/14/2024 20:39	55508	HERS_T2	2	2	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
10/14/2024 20:39	55507	HERS_T1	9	2	-7	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
10/14/2024 20:39	66505	SMAN_T2	3	3	0	1.37	1.37	0	0	0	0	0	0	0	0	0
10/14/2024 20:40	57101	SPHI_T2	5	2	-3	0.24	0.3	0.06	0	0	0	0	0	0	0	0
10/14/2024 20:40	57104	SPHI_T2	4	3	-1	3.1	1.15	-1.95	-0.24	-0.24	0	0	0	0	0	0
10/14/2024 20:40	46801	HEPB_T2	0	2	2	0	0.35	0.35	0.49	0.49	0	0	0	0	0	0
10/14/2024 20:40	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
10/14/2024 20:40	54603	SUMM_T2	0	0	0	0	0	0	-0.56	-0.55	1	1	0	900	900	0
10/14/2024 20:40	63801	HEMP_T1	0	0	0	0	0	0	-0.22	0.05	0	0	0	0	0	0
10/14/2024 20:40	64702	LITI_T2	0	0	0	0	0	0	-0.73	-0.77	0	0	0	0	0	0
10/14/2024 20:40	57106	SPHI_T2	3	3	0	1.13	0.93	-0.2	0	0	0	0	0	0	0	0
10/14/2024 20:40	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
10/14/2024 20:40	63804	HEMP_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
10/14/2024 20:40	63501	HEID_TBK1-2	12	2	-10	0.16	0.1	-0.06	0.34	0.33	0	0	0	0	0	0
10/14/2024 20:40	54601	SUMM_T2	9	7	-2	0.46	0.47	0.01	0	0	0	0	0	0	0	0
10/14/2024 20:40	58401	MORO_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
10/14/2024 20:40	46506	LOHA_T1	4	4	0	3.58	3.2	-0.38	0	0	0	0	0	0	0	0
10/14/2024 20:41	64203	KINZ_T1	83	52	-31	0.35	0.18	-0.17	0.16	0.28	0	0	0	0	0	0
10/14/2024 20:41	66505	SMAN_T2	3	3	0	1.37	1.37	0	-0.48	-0.57	1	1	0	900	900	0
10/14/2024 20:41	65003	NEFF_T2	0	0	0	0	0	0	-0.93	-0.92	1	1	0	600	600	0
10/14/2024 20:41	64202	KINZ_T1	34	32	-2	0.31	0.22	-0.09	0	0	0	0	0	0	0	0
10/14/2024 20:41	44301	BEAV_T2	0	2	2	0	0	0	-0.08	-0.1	1	1	0	600	600	0
10/14/2024 20:41	64201	KINZ_T1	21	17	-4	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
10/14/2024 20:41	59301	MCAL_T1	2	2	0	0.6	0.2	-0.4	-1.29	-1.3	0	0	0	0	0	0
10/14/2024 20:41	64204	KINZ_T1	261	258	-3	0.28	0.28	0	0	0	0	0	0	0	0	0
10/14/2024 20:41	57403	SPAN_T1	2	8	6	0.1	0.18	0.08	0.02	0.03	0	0	0	0	0	0
10/14/2024 20:41	57401	SPAN_T1	2	2	0	0.85	0.55	-0.3	0	0	0	0	0	0	0	0
10/14/2024 20:42	41902	REED_T1	1	2	1	0.3	0	-0.3	0.89	0.89	0	0	0	0	0	0
10/14/2024 20:42	58401	MORO_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
10/14/2024 20:42	41901	REED_T1	3	4	1	0.17	0.18	0.01	0	0	0	0	0	0	0	0
10/14/2024 20:42	55001	NEWP_T1	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
10/14/2024 20:42	55002	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/14/2024 20:43	65502	MOJO_T2	23	0	-23	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/14/2024 20:43	58401	MORO_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
10/14/2024 20:45	55002	NEWP_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
10/14/2024 20:45	55001	NEWP_T1	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
10/14/2024 20:45	44301	BEAV_T2	2	0	-2	1	0	-1	-0.08	-0.1	1	1	0	600	600	0
10/14/2024 20:45	55105	WERT_T1	0	0	0	0	0	0	-0.7	-0.74	1	1	0	900	900	0
10/14/2024 20:55	54502	ENOL_T2	1	2	1	0.1	0.7	0.6	0	0	0	0	0	0	0	0
10/14/2024 20:55	54504	ENOL_T2	0	0	0	0	0	0	-1.17	-1.17	1	1	0	600	600	0
10/14/2024 20:55	54505	ENOL_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
10/14/2024 21:05	55508	HERS_T2	2	2	0	1.3	1.7	0.4	-2.63	-2.64	1	1	0	1200	1200	0
10/14/2024 21:06	43801	SWIL_T1	2	2	0	3.25	3.25	0	0	0	0	0	0	0	0	0
10/14/2024 21:06	43802	SWIL_T1	0	0	0	0	0	0	-0.09	-0.11	1	1	0	600	600	0
10/14/2024 21:22	64802	MONE_T2	45	96	51	0.18	0.19	0.01	0	0	0	0	0	0	0	0
10/14/2024 21:22	64801	MONE_T2	40	62	22	0.21	0.27	0.06	0.26	0.26	0	0	0	0	0	0
10/14/2024 21:57	46204	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/14/2024 21:57	46205	DANV_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
10/14/2024 22:03	55501	HERS_T1	52	22	-30	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
10/14/2024 22:03	55507	HERS_T1	2	0	-2	0.1	0	-0.1	-0.12	-0.12	0	0	0	0	0	0
10/15/2024 0:12	63501	HEID_TBK1-2	1	2	1	1.1	1.05	-0.05	0.38	0.41	0	0	0	0	0	0
10/15/2024 8:21	55002	NEWP_T1	3	5	2	0.2	0.48	0.28	-0.2	-0.22	0	0	0	0	0	0
10/15/2024 8:23	57201	ROSS_T1	0	2	2	0	0.1	0.1	-0.88	-0.87	0	0	0	0	0	0
10/15/2024 8:43	14201	EALL_T1	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
10/15/2024 8:44	61801	EELI_T2	0	0	0	0	0	0	-1.82	-1.84	2	2	0	1200	1200	0
10/15/2024 8:48	23401	HONE_T2	0	0	0	0	0	0	0.51	0.6	0	0	0	0	0	0
10/15/2024 8:50	52502	PROG_T2	0	0	0	0	0	0	-1.31	-1.28	2	2	0	1800	1800	0
10/15/2024 8:50	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/15/2024 8:50	11603	CEAL_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/15/2024 8:57	45501	DERR_T2	0	0	0	0	0	0	0.82	0.83	2	2	0	1800	1800	0
10/15/2024 8:57	45502	DERR_T2	2	2	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/15/2024 8:58	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 8:59	45501	DERR_T2	0	0	0	0	0	0	0.82	0.83	2	2	0	1800	1800	0
10/15/2024 8:59	45502	DERR_T2	2	2	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/15/2024 9:02	54601	SUMM_T2	11	12	1	0.35	0.59	0.24	-1.68	-1.7	2	2	0	2100	2100	0
10/15/2024 9:03	63801	HEMP_T1	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
10/15/2024 9:03	63804	HEMP_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
10/15/2024 9:03	63803	HEMP_T1	0	3	3	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
10/15/2024 9:07	15201	SFAR_T1	0	0	0	0	0	0	-0.69	-0.64	2	2	0	1800	1800	0
10/15/2024 9:09	15201	SFAR_T1	0	0	0	0	0	0	-0.69	-0.64	2	2	0	1800	1800	0
10/15/2024 9:10	60201	ATGL_T2	0	13	13	0	0.14	0.14	0.63	0.7	0	0	0	0	0	0
10/15/2024 9:10	42701	AUGU_T1	1	1	0	0.5	0.9	0.4	0	0	2	1	-1	1800	600	-1200
10/15/2024 9:11	67605	WARW_T1	34	49	15	0.56	0.66	0.1	0	0	0	0	0	0	0	0
10/15/2024 9:11	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 9:12	54202	PENN_T2	2	4	2	0.25	0.58	0.33	0	0	0	0	0	0	0	0
10/15/2024 9:12	54206	PENN_T2	0	0	0	0	0	0	-0.04	0	0	0	0	0	0	0
10/15/2024 9:13	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
10/15/2024 9:13	54502	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
10/15/2024 9:13	54503	ENOL_T2	0	0	0	0	0	0	-0.47	-0.46	1	1	0	600	600	0
10/15/2024 9:13	67605	WARW_T1	34	49	15	0.56	0.66	0.1	-1.13	-1.07	0	0	0	0	0	0
10/15/2024 9:14	10203	ALLE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/15/2024 9:14	10102	ALLE_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
10/15/2024 9:14	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 9:14	10206	ALLE_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
10/15/2024 9:15	63501	HEID_TBK1-2	21	15	-6	0.2	0.15	-0.05	-0.02	0.05	1	1	0	900	900	0
10/15/2024 9:16	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
10/15/2024 9:16	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/15/2024 9:16	63501	HEID_TBK1-2	21	15	-6	0.2	0.15	-0.05	-0.02	0.05	1	1	0	900	900	0
10/15/2024 9:16	44505	HAMI_T2	0	11	11	0	0	0	0.47	0.49	0	0	0	0	0	0
10/15/2024 9:16	54506	ENOL_T2	0	0	0	0	0	0	0.36	0.39	1	1	0	600	600	0
10/15/2024 9:16	44502	HAMI_T2	1	2	1	3.2	1.7	-1.5	0	0	0	0	0	0	0	0
10/15/2024 9:18	63501	HEID_TBK1-2	21	15	-6	0.2	0.15	-0.05	-0.02	0.05	1	1	0	900	900	0
10/15/2024 9:19	63804	HEMP_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
10/15/2024 9:19	44502	HAMI_T2	1	2	1	3.2	1.7	-1.5	0	0	0	0	0	0	0	0
10/15/2024 9:19	63803	HEMP_T1	2	3	1	0.1	0.2	0.1	-0.01	0.04	0	0	0	0	0	0
10/15/2024 9:19	63801	HEMP_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/15/2024 9:19	44505	HAMI_T2	0	11	11	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 9:21	64902	MILL_T2	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
10/15/2024 9:26	60201	ATGL_T2	6	13	7	0.12	0.14	0.02	0.7	0.62	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/15/2024 9:29	63305	GREE_T1	5	5	0	0.14	0.22	0.08	-1.26	-1.19	0	0	0	0	0	0
10/15/2024 9:29	63306	GREE_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
10/15/2024 9:30	63305	GREE_T1	5	1	-4	0.22	0.2	-0.02	-1.26	-1.19	0	0	0	0	0	0
10/15/2024 9:30	63306	GREE_T1	1	1	0	0.4	0.3	-0.1	-1.54	-1.51	1	1	0	900	900	0
10/15/2024 9:30	53501	EVIL_T2	2	2	0	0.85	0.65	-0.2	-0.3	-0.19	2	2	0	1200	1200	0
10/15/2024 9:31	63306	GREE_T1	1	1	0	0.4	0.3	-0.1	-1.54	-1.51	1	1	0	900	900	0
10/15/2024 9:31	63305	GREE_T1	5	1	-4	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
10/15/2024 9:31	21501	CEAV_T2	0	0	0	0	0	0	-0.29	-0.12	1	1	0	1200	1200	0
10/15/2024 9:32	63305	GREE_T1	5	1	-4	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
10/15/2024 9:32	63306	GREE_T1	1	1	0	0.4	0.3	-0.1	-1.54	-1.51	1	1	0	900	900	0
10/15/2024 9:32	63302	GREE_T1	0	0	0	0	0	0	0.56	0.5	0	0	0	0	0	0
10/15/2024 9:33	58401	MORO_T1	0	0	0	0	0	0	-0.45	-0.48	0	0	0	0	0	0
10/15/2024 9:35	65602	QVIL_T2	0	23	23	0	0.14	0.14	0	0	0	0	0	0	0	0
10/15/2024 9:35	65601	QVIL_T2	34	24	-10	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
10/15/2024 9:35	58401	MORO_T1	0	0	0	0	0	0	-0.45	-0.48	0	0	0	0	0	0
10/15/2024 9:35	65603	QVIL_T2	0	0	0	0	0	0	0.46	0.43	0	0	0	0	0	0
10/15/2024 9:37	65602	QVIL_T2	0	23	23	0	0.14	0.14	0	0	0	0	0	0	0	0
10/15/2024 9:37	15204	SFAR_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
10/15/2024 9:37	65603	QVIL_T2	0	0	0	0	0	0	0.43	0.33	0	0	0	0	0	0
10/15/2024 9:37	65601	QVIL_T2	34	24	-10	0.15	0.13	-0.02	-1.2	-1.19	1	1	0	900	900	0
10/15/2024 9:38	64801	MONE_T2	46	37	-9	0.2	0.19	-0.01	0.3	0.28	0	0	0	0	0	0
10/15/2024 9:38	65602	QVIL_T2	0	23	23	0	0.14	0.14	0	0	0	0	0	0	0	0
10/15/2024 9:38	64802	MONE_T2	86	77	-9	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
10/15/2024 9:38	65603	QVIL_T2	0	0	0	0	0	0	0.43	0.33	0	0	0	0	0	0
10/15/2024 9:38	65601	QVIL_T2	34	24	-10	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
10/15/2024 9:39	65603	QVIL_T2	0	0	0	0	0	0	0.43	0.33	0	0	0	0	0	0
10/15/2024 9:39	65602	QVIL_T2	0	23	23	0	0.14	0.14	0	0	0	0	0	0	0	0
10/15/2024 9:39	65601	QVIL_T2	34	24	-10	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
10/15/2024 9:42	67502	WEWI_T2	26	15	-11	0.2	0.29	0.09	0	0	0	0	0	0	0	0
10/15/2024 9:42	67503	WEWI_T2	1	1	0	9.3	9.5	0.2	-0.29	-0.28	0	0	0	0	0	0
10/15/2024 9:42	60803	BUCK_T1	25	20	-5	0.32	0.32	0	0	0	0	0	0	0	0	0
10/15/2024 9:42	60801	BUCK_T1	62	48	-14	0.32	0.26	-0.06	0	0	0	0	0	0	0	0
10/15/2024 9:44	60801	BUCK_T1	62	48	-14	0.32	0.26	-0.06	-0.19	-0.17	0	0	0	0	0	0
10/15/2024 9:44	60803	BUCK_T1	25	20	-5	0.32	0.32	0	0	0	0	0	0	0	0	0
10/15/2024 9:49	59301	MCAL_T1	2	3	1	1.05	0.75	-0.3	-1.78	-1.8	1	1	0	600	600	0
10/15/2024 9:51	40801	EXCH_T2	1	1	0	0.2	0.3	0.1	-0.55	-0.61	1	1	0	1200	1200	0
10/15/2024 9:55	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 9:56	67201	TEHI_T1	0	0	0	0	0	0	0.77	0.74	2	2	0	1500	1500	0
10/15/2024 9:56	43304	WATS_T2	0	0	0	0	0	0	-0.44	-0.76	0	0	0	0	0	0
10/15/2024 9:56	43301	WATS_T2	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
10/15/2024 9:56	15001	BLMO_T1	10	13	3	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
10/15/2024 9:57	20401	ASHF_T2	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/15/2024 9:57	20403	ASHF_T2	2	5	3	0.4	0.4	0	1.07	1.13	0	0	0	0	0	0
10/15/2024 9:57	43304	WATS_T2	0	0	0	0	0	0	-0.44	-0.76	0	0	0	0	0	0
10/15/2024 9:57	20402	ASHF_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/15/2024 9:58	60801	BUCK_T1	34	46	12	0.25	0.27	0.02	-0.17	-0.19	0	0	0	0	0	0
10/15/2024 9:58	60803	BUCK_T1	17	19	2	0.25	0.32	0.07	0	0	0	0	0	0	0	0
10/15/2024 10:00	11601	CEAL_T1	0	1	1	0	0.3	0.3	0	0	1	1	0	1200	1200	0
10/15/2024 10:00	58401	MORO_T1	0	0	0	0	0	0	-0.94	-0.96	0	0	0	0	0	0
10/15/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
10/15/2024 10:00	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 10:00	54502	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/15/2024 10:00	54503	ENOL_T2	0	0	0	0	0	0	-0.45	-0.46	1	1	0	600	600	0
10/15/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
10/15/2024 10:00	67502	WEWI_T2	14	116	102	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
10/15/2024 10:00	54601	SUMM_T2	8	10	2	0.61	0.62	0.01	-1.93	-1.94	2	2	0	2100	2100	0
10/15/2024 10:00	67503	WEWI_T2	1	1	0	9.3	9.6	0.3	-0.28	-0.26	0	0	0	0	0	0
10/15/2024 10:00	13302	ORVI_T2	0	0	0	0	0	0	1.33	1.24	0	0	0	0	0	0
10/15/2024 10:00	66505	SMAN_T2	0	0	0	0	0	0	0.06	0.02	1	1	0	900	900	0
10/15/2024 10:00	44502	HAMI_T2	1	2	1	2.8	1.4	-1.4	0	0	0	0	0	0	0	0
10/15/2024 10:00	15001	BLMO_T1	10	10	0	0.19	0.27	0.08	0	0	0	0	0	0	0	0
10/15/2024 10:00	54504	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 10:00	66504	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/15/2024 10:00	54505	ENOL_T2	2	2	0	0.45	0.75	0.3	0	0	0	0	0	0	0	0
10/15/2024 10:00	66502	SMAN_T2	2	3	1	0.35	0.3	-0.05	0.12	0.08	0	0	0	0	0	0
10/15/2024 10:00	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/15/2024 10:06	58402	MORO_T1	0	0	0	0	0	0	-0.12	-0.13	2	2	0	1500	1500	0
10/15/2024 10:06	54601	SUMM_T2	8	10	2	0.61	0.62	0.01	-1.93	-1.94	2	2	0	2100	2100	0
10/15/2024 10:07	57402	SPAN_T2	0	0	0	0	0	0	-1.21	-1.21	0	0	0	0	0	0
10/15/2024 10:08	44502	HAMI_T2	1	2	1	2.8	1.4	-1.4	0	0	0	0	0	0	0	0
10/15/2024 10:08	44505	HAMI_T2	0	0	0	0	0	0	0.46	0.49	0	0	0	0	0	0
10/15/2024 10:08	54601	SUMM_T2	8	10	2	0.61	0.62	0.01	-1.94	-1.91	2	2	0	2100	2100	0
10/15/2024 10:09	54603	SUMM_T2	0	0	0	0	0	0	-0.45	-0.48	1	1	0	900	900	0
10/15/2024 10:09	65603	QVIL_T2	0	0	0	0	0	0	0.44	0.39	0	0	0	0	0	0
10/15/2024 10:09	54601	SUMM_T2	8	10	2	0.61	0.62	0.01	0	0	0	0	0	0	0	0
10/15/2024 10:09	65602	QVIL_T2	23	4	-19	0.14	0.2	0.06	0	0	0	0	0	0	0	0
10/15/2024 10:09	65601	QVIL_T2	24	6	-18	0.13	0.4	0.27	-1.15	-1.16	1	1	0	900	900	0
10/15/2024 10:10	65601	QVIL_T2	24	6	-18	0.13	0.4	0.27	0	0	0	0	0	0	0	0
10/15/2024 10:10	64802	MONE_T2	55	56	1	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
10/15/2024 10:10	64801	MONE_T2	13	19	6	0.28	0.18	-0.1	0.27	0.3	0	0	0	0	0	0
10/15/2024 10:10	64602	LEOL_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
10/15/2024 10:10	65602	QVIL_T2	23	4	-19	0.14	0.2	0.06	0	0	0	0	0	0	0	0
10/15/2024 10:10	67605	WARW_T1	26	27	1	0.56	0.52	-0.04	-1.09	-1.04	0	0	0	0	0	0
10/15/2024 10:10	54601	SUMM_T2	8	10	2	0.61	0.62	0.01	-1.94	-1.91	2	2	0	2100	2100	0
10/15/2024 10:10	65603	QVIL_T2	0	0	0	0	0	0	0.88	0.77	0	0	0	0	0	0
10/15/2024 10:10	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 10:11	10801	CHHI_T1	1	1	0	0.2	0.2	0	-0.94	-0.95	1	1	0	900	900	0
10/15/2024 10:11	67605	WARW_T1	26	27	1	0.56	0.52	-0.04	-1.09	-1.04	0	0	0	0	0	0
10/15/2024 10:11	15203	SFAR_T2	0	1	1	0	0.3	0.3	-1.4	-1.39	0	0	0	0	0	0
10/15/2024 10:11	15203	SFAR_T2	0	1	1	0	0.3	0.3	-1.4	-1.39	0	0	0	0	0	0
10/15/2024 10:11	15203	SFAR_T2	0	1	1	0	0.3	0.3	-1.4	-1.39	0	0	0	0	0	0
10/15/2024 10:11	15203	SFAR_T2	0	1	1	0	0.3	0.3	-1.4	-1.39	0	0	0	0	0	0
10/15/2024 10:13	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 10:13	10101	ALLE_T3	1	0	-1	2.8	0	-2.8	0	0	0	0	0	0	0	0
10/15/2024 10:15	67605	WARW_T1	26	16	-10	0.53	0.58	0.05	0	0	0	0	0	0	0	0
10/15/2024 10:15	67603	WARW_T1	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
10/15/2024 10:16	46602	LACR_T1	2	3	1	0.95	0.93	-0.02	-1.2	-1.17	0	0	0	0	0	0
10/15/2024 10:16	25402	LAHA_T2	0	0	0	0	0	0	-0.41	-0.57	0	0	0	0	0	0
10/15/2024 10:18	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 10:18	20603	GRWO_T2	0	1	1	0	0.2	0.2	-0.66	-0.68	1	1	0	900	900	0
10/15/2024 10:18	28403	HART_T2	0	0	0	0	0	0	-0.88	-0.89	1	1	0	900	900	0
10/15/2024 10:18	65503	MOJO_T2	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
10/15/2024 10:19	40101	HUNT_T2	2	3	1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
10/15/2024 10:20	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 10:21	13701	SCHN_T2	3	3	0	0.23	0.43	0.2	0	0	0	0	0	0	0	0
10/15/2024 10:21	13704	SCHN_T2	2	2	0	0.2	0.25	0.05	-0.31	-0.34	0	0	0	0	0	0
10/15/2024 10:22	65502	MOJO_T2	0	0	0	0	0	0	-0.3	-0.21	0	0	0	0	0	0
10/15/2024 10:22	43801	SWIL_T1	1	2	1	5.2	2.65	-2.55	0	0	0	0	0	0	0	0
10/15/2024 10:22	67401	WAKE_T2	1	3	2	0.1	0.47	0.37	-0.76	-0.79	0	0	0	0	0	0
10/15/2024 10:22	43802	SWIL_T1	0	0	0	0	0	0	-0.24	-0.22	1	1	0	600	600	0
10/15/2024 10:22	67201	TEHI_T1	0	0	0	0	0	0	0.87	0.92	2	2	0	1500	1500	0
10/15/2024 10:23	65602	QVIL_T2	0	7	7	0	0.16	0.16	0	0	0	0	0	0	0	0
10/15/2024 10:23	13701	SCHN_T2	3	3	0	0.23	0.43	0.2	-0.12	-0.1	1	1	0	600	600	0
10/15/2024 10:23	65601	QVIL_T2	5	8	3	0.2	0.49	0.29	0	0	0	0	0	0	0	0
10/15/2024 10:23	13704	SCHN_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
10/15/2024 10:23	65603	QVIL_T2	0	0	0	0	0	0	0.39	0.52	0	0	0	0	0	0
10/15/2024 10:24	64901	MILL_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
10/15/2024 10:24	64904	MILL_T1	0	1	1	0	0.1	0.1	0.4	0.42	0	0	0	0	0	0
10/15/2024 10:24	64802	MONE_T2	36	63	27	0.25	0.29	0.04	0.29	0.31	0	0	0	0	0	0
10/15/2024 10:24	64801	MONE_T2	6	27	21	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
10/15/2024 10:25	57205	ROSS_T1	1	1	0	0.4	0.7	0.3	0.19	0.17	0	0	0	0	0	0
10/15/2024 10:25	57203	ROSS_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
10/15/2024 10:25	13701	SCHN_T2	3	3	0	0.23	0.43	0.2	-0.12	-0.1	1	1	0	600	600	0
10/15/2024 10:25	13704	SCHN_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
10/15/2024 10:25	67402	WAKE_T2	0	0	0	0	0	0	0.29	0.28	1	1	0	600	600	0
10/15/2024 10:25	67401	WAKE_T2	1	3	2	0.1	0.47	0.37	0	0	0	0	0	0	0	0
10/15/2024 10:26	45502	DERR_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/15/2024 10:26	45501	DERR_T2	0	0	0	0	0	0	0.72	0.7	2	2	0	1800	1800	0
10/15/2024 10:26	14705	TREX_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
10/15/2024 10:26	14704	TREX_T1	1	1	0	4.3	4.3	0	0	0	0	0	0	0	0	0
10/15/2024 10:27	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 10:28	57401	SPAN_T1	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
10/15/2024 10:28	53501	EVIL_T2	2	3	1	1.15	0.67	-0.48	-0.52	-0.52	6	6	0	3600	3600	0
10/15/2024 10:28	57403	SPAN_T1	12	24	12	0.22	0.25	0.03	-0.03	0.04	0	0	0	0	0	0
10/15/2024 10:28	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 10:29	53501	EVIL_T2	2	3	1	1.15	0.67	-0.48	-0.17	-0.17	2	2	0	1200	1200	0
10/15/2024 10:30	53501	EVIL_T2	3	4	1	0.73	0.63	-0.1	-0.17	-0.17	2	2	0	1200	1200	0
10/15/2024 10:32	53501	EVIL_T2	3	4	1	0.73	0.63	-0.1	-0.17	-0.17	2	2	0	1200	1200	0
10/15/2024 10:34	45502	DERR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/15/2024 10:34	45501	DERR_T2	0	0	0	0	0	0	0.72	0.7	2	2	0	1800	1800	0
10/15/2024 10:35	64305	UNC_T1	0	1	1	0	0.2	0.2	-0.23	-0.17	0	0	0	0	0	0
10/15/2024 10:36	24202	PROV_T4	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/15/2024 10:37	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
10/15/2024 10:37	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.43	0	0	0	0	0	0
10/15/2024 10:37	43801	SWIL_T1	2	1	-1	2.65	5.3	2.65	0	0	0	0	0	0	0	0
10/15/2024 10:37	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 10:38	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.43	0	0	0	0	0	0
10/15/2024 10:38	15703	TANN_T2	1	1	0	6	6	0	0	0	0	0	0	0	0	0
10/15/2024 10:39	55101	WERT_T1	0	0	0	0	0	0	-0.77	-0.88	1	1	0	600	600	0
10/15/2024 10:39	55105	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/15/2024 10:40	66504	SMAN_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
10/15/2024 10:40	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 10:40	66502	SMAN_T2	3	5	2	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
10/15/2024 10:40	66501	SMAN_T2	2	2	0	0.15	0.4	0.25	0	0	0	0	0	0	0	0
10/15/2024 10:41	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 10:43	43301	WATS_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
10/15/2024 10:43	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 10:43	11904	ETEX_T2	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
10/15/2024 10:43	11901	ETEX_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/15/2024 10:43	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 10:44	43304	WATS_T2	0	0	0	0	0	0	-1.5	-0.97	0	0	0	0	0	0
10/15/2024 10:44	41305	FISH_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/15/2024 10:44	41301	FISH_T1	3	4	1	1.5	1.1	-0.4	-0.1	-0.09	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/15/2024 10:44	11904	ETEX_T2	1	1	0	1.5	1.4	-0.1	0.27	0.26	0	0	0	0	0	0
10/15/2024 10:44	11901	ETEX_T2	1	2	1	0.2	0.2	0	0.36	0.36	0	0	0	0	0	0
10/15/2024 10:44	24702	FLND_T2	0	0	0	0	0	0	0.83	0.98	1	1	0	1200	1200	0
10/15/2024 10:45	11904	ETEX_T2	1	1	0	1.3	1.6	0.3	0.27	0.26	0	0	0	0	0	0
10/15/2024 10:45	11901	ETEX_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/15/2024 10:45	41305	FISH_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
10/15/2024 10:45	41301	FISH_T1	4	4	0	1.1	1.4	0.3	-0.1	-0.09	0	0	0	0	0	0
10/15/2024 10:46	11901	ETEX_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/15/2024 10:46	11904	ETEX_T2	1	1	0	1.3	1.6	0.3	0.27	0.26	0	0	0	0	0	0
10/15/2024 10:47	41301	FISH_T1	4	4	0	1.1	1.4	0.3	-0.1	-0.09	0	0	0	0	0	0
10/15/2024 10:47	63501	HEID_TBK1-2	0	4	4	0	0.38	0.38	0.14	0.16	1	1	0	900	900	0
10/15/2024 10:47	11904	ETEX_T2	1	1	0	1.3	1.6	0.3	0.27	0.26	0	0	0	0	0	0
10/15/2024 10:47	41305	FISH_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
10/15/2024 10:47	11901	ETEX_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/15/2024 10:48	41305	FISH_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
10/15/2024 10:48	41301	FISH_T1	4	4	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
10/15/2024 10:48	58401	MORO_T1	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
10/15/2024 10:50	63501	HEID_TBK1-2	0	4	4	0	0.38	0.38	0.28	0.33	2	2	0	1800	1800	0
10/15/2024 10:50	17002	RIRO_T2	10	10	0	0.44	0.49	0.05	0.63	0.59	0	0	0	0	0	0
10/15/2024 10:51	58401	MORO_T1	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
10/15/2024 10:51	13503	MCMI_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
10/15/2024 10:51	66501	SMAN_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/15/2024 10:51	66504	SMAN_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/15/2024 10:51	66502	SMAN_T2	3	5	2	0.17	0.32	0.15	0	0	0	0	0	0	0	0
10/15/2024 10:54	54601	SUMM_T2	12	14	2	0.66	0.78	0.12	0	0	0	0	0	0	0	0
10/15/2024 10:54	54603	SUMM_T2	0	0	0	0	0	0	-0.45	-0.43	1	1	0	900	900	0
10/15/2024 10:55	66501	SMAN_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/15/2024 10:55	20401	ASHF_T2	5	7	2	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
10/15/2024 10:55	66504	SMAN_T2	0	1	1	0	0.7	0.7	-0.56	-0.49	0	0	0	0	0	0
10/15/2024 10:55	20403	ASHF_T2	7	8	1	0.4	0.44	0.04	1.06	1.09	0	0	0	0	0	0
10/15/2024 10:55	66502	SMAN_T2	3	5	2	0.17	0.32	0.15	0	0	0	0	0	0	0	0
10/15/2024 10:55	20402	ASHF_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
10/15/2024 10:56	66501	SMAN_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/15/2024 10:56	66502	SMAN_T2	3	5	2	0.17	0.32	0.15	0	0	0	0	0	0	0	0
10/15/2024 10:56	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.39	0	0	0	0	0	0
10/15/2024 10:56	66504	SMAN_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/15/2024 10:58	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 11:00	45501	DERR_T2	0	0	0	0	0	0	0.8	0.79	2	2	0	1800	1800	0
10/15/2024 11:00	51604	DUKE_T2	2	4	2	0.3	0.38	0.08	-0.68	-0.71	0	0	0	0	0	0
10/15/2024 11:01	61701	ELIZ_T1	2	2	0	3.8	3.9	0.1	0.43	0.44	0	0	0	0	0	0
10/15/2024 11:01	61703	ELIZ_T1	4	8	4	0.33	0.34	0.01	0	0	0	0	0	0	0	0
10/15/2024 11:02	46602	LACR_T1	4	5	1	0.75	0.62	-0.13	-1.2	-1.17	0	0	0	0	0	0
10/15/2024 11:04	16401	MOPO_T1	0	0	0	0	0	0	0.17	0.2	0	0	0	0	0	0
10/15/2024 11:04	46602	LACR_T1	4	5	1	0.75	0.62	-0.13	-1.2	-1.17	0	0	0	0	0	0
10/15/2024 11:05	41305	FISH_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
10/15/2024 11:05	41301	FISH_T1	4	4	0	0.9	1.65	0.75	-0.09	-0.08	0	0	0	0	0	0
10/15/2024 11:06	41902	REED_T1	0	3	3	0	0.23	0.23	0.95	0.89	0	0	0	0	0	0
10/15/2024 11:07	41902	REED_T1	0	3	3	0	0.23	0.23	0.89	0.92	0	0	0	0	0	0
10/15/2024 11:08	41902	REED_T1	0	3	3	0	0.23	0.23	0.89	0.92	0	0	0	0	0	0
10/15/2024 11:09	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 11:10	51306	WIND_T2	1	1	0	0.1	0.2	0.1	0.1	0.09	0	0	0	0	0	0
10/15/2024 11:10	51304	WIND_T2	1	1	0	1.1	1.6	0.5	0	0	0	0	0	0	0	0
10/15/2024 11:10	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 11:11	67503	WEWI_T2	2	2	0	4.85	4.6	-0.25	-0.3	-0.27	0	0	0	0	0	0
10/15/2024 11:11	67502	WEWI_T2	22	17	-5	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
10/15/2024 11:12	44802	EDAN_T2	3	2	-1	0.17	0.1	-0.07	-0.82	-0.81	0	0	0	0	0	0
10/15/2024 11:12	44801	EDAN_T2	202	213	11	0.7	0.67	-0.03	0	0	0	0	0	0	0	0
10/15/2024 11:13	51305	WIND_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
10/15/2024 11:13	51301	WIND_T1	3	3	0	0.17	0.2	0.03	0	0	0	0	0	0	0	0
10/15/2024 11:13	14203	EALL_T1	3	4	1	0.6	0.7	0.1	1.06	1.01	0	0	0	0	0	0
10/15/2024 11:13	51303	WIND_T1	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/15/2024 11:13	44802	EDAN_T2	3	2	-1	0.17	0.1	-0.07	-1.63	-1.62	0	0	0	0	0	0
10/15/2024 11:13	44801	EDAN_T2	202	213	11	0.7	0.67	-0.03	0	0	0	0	0	0	0	0
10/15/2024 11:13	67501	WEWI_T1	6	5	-1	0.82	0.9	0.08	-0.52	-0.47	0	0	0	0	0	0
10/15/2024 11:13	51304	WIND_T2	1	1	0	1.1	1.6	0.5	0	0	0	0	0	0	0	0
10/15/2024 11:13	51306	WIND_T2	1	1	0	0.1	0.2	0.1	0.1	0.09	0	0	0	0	0	0
10/15/2024 11:14	14204	EALL_T2	0	0	0	0	0	0	0.07	0.21	0	0	0	0	0	0
10/15/2024 11:15	67502	WEWI_T2	16	17	1	0.42	0.38	-0.04	-0.6	-0.74	0	0	0	0	0	0
10/15/2024 11:15	50201	HARR_T3	2	2	0	0.4	0.55	0.15	0	0	1	1	0	1200	1200	0
10/15/2024 11:15	44802	EDAN_T2	0	2	2	0	0.1	0.1	-2.45	-2.43	0	0	0	0	0	0
10/15/2024 11:15	50103	HARR_T3	2	2	0	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
10/15/2024 11:15	50107	HARR_T3	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
10/15/2024 11:15	67503	WEWI_T2	2	1	-1	4.6	9.4	4.8	0	0	0	0	0	0	0	0
10/15/2024 11:15	44801	EDAN_T2	202	210	8	0.63	0.7	0.07	-1.65	-1.64	0	0	0	0	0	0
10/15/2024 11:15	63601	LETO_T1	3	3	0	0.37	0.4	0.03	1.15	0.84	1	1	0	900	900	0
10/15/2024 11:15	63602	LETO_T1	5	4	-1	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
10/15/2024 11:15	50105	HARR_T3	6	6	0	5.38	5.47	0.09	0	0	0	0	0	0	0	0
10/15/2024 11:16	50201	HARR_T3	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
10/15/2024 11:16	50105	HARR_T3	6	6	0	5.38	5.47	0.09	0	0	0	0	0	0	0	0
10/15/2024 11:16	44802	EDAN_T2	0	2	2	0	0.1	0.1	-0.82	-0.81	0	0	0	0	0	0
10/15/2024 11:16	50103	HARR_T3	2	2	0	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
10/15/2024 11:16	44801	EDAN_T2	202	210	8	0.63	0.7	0.07	0	0	0	0	0	0	0	0
10/15/2024 11:16	50107	HARR_T3	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
10/15/2024 11:17	50103	HARR_T3	2	2	0	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
10/15/2024 11:17	50107	HARR_T3	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
10/15/2024 11:17	50105	HARR_T3	6	6	0	5.38	5.47	0.09	0	0	0	0	0	0	0	0
10/15/2024 11:17	50201	HARR_T3	2	2	0	0.4	0.55	0.15	0	0	1	1	0	1200	1200	0
10/15/2024 11:22	63602	LETO_T1	5	4	-1	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
10/15/2024 11:22	11604	CEAL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 11:22	64902	MILL_T2	1	1	0	0.2	0.1	-0.1	0.18	0.15	0	0	0	0	0	0
10/15/2024 11:22	63601	LETO_T1	3	3	0	0.37	0.4	0.03	0.84	0.92	1	1	0	900	900	0
10/15/2024 11:22	11601	CEAL_T1	1	2	1	0.5	0.3	-0.2	0	0	1	1	0	1200	1200	0
10/15/2024 11:23	13701	SCHN_T2	7	6	-1	0.34	0.37	0.03	0	0	0	0	0	0	0	0
10/15/2024 11:23	41902	REED_T1	3	0	-3	0.23	0	-0.23	0.92	0.93	0	0	0	0	0	0
10/15/2024 11:23	13704	SCHN_T2	5	5	0	0.24	0.22	-0.02	-0.32	-0.33	0	0	0	0	0	0
10/15/2024 11:25	41902	REED_T1	3	0	-3	0.23	0	-0.23	0.92	0.93	0	0	0	0	0	0
10/15/2024 11:26	16102	BING_T2	5	5	0	0.42	0.7	0.28	0	0	0	0	0	0	0	0
10/15/2024 11:26	60201	ATGL_T2	0	1	1	0	0.1	0.1	0.62	0.62	0	0	0	0	0	0
10/15/2024 11:26	16103	BING_T2	0	1	1	0	0.2	0.2	-1.07	-1.08	2	2	0	1500	1500	0
10/15/2024 11:26	16101	BING_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
10/15/2024 11:27	67605	WARW_T1	14	56	42	0.61	0.6	-0.01	-1.07	-1.04	0	0	0	0	0	0
10/15/2024 11:27	67603	WARW_T1	1	3	2	0.41	0.6	0.5	0	0	0	0	0	0	0	0
10/15/2024 11:27	54206	PENN_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
10/15/2024 11:27	54202	PENN_T2	6	5	-1	0.53	0.68	0.15	0.61	0.7	0	0	0	0	0	0
10/15/2024 11:28	54206	PENN_T2	3	0	-3	0.17	0	-0.17	0.03	0	0	0	0	0	0	0
10/15/2024 11:28	67603	WARW_T1	1	3	2	0.1	0.6	0.5	0	0	0	0	0	0	0	0
10/15/2024 11:28	54202	PENN_T2	6	5	-1	0.53	0.68	0.15	0	0	0	0	0	0	0	0
10/15/2024 11:28	67605	WARW_T1	14	56	42	0.61	0.6	-0.01	-1.07	-1.04	0	0	0	0	0	0
10/15/2024 11:29	60801	BUCK_T1	15	8	-7	0.26	0.31	0.05	-0.19	-0.22	0	0	0	0	0	0
10/15/2024 11:29	60803	BUCK_T1	9	1	-8	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
10/15/2024 11:29	61703	ELIZ_T1	4	8	4	0.3	0.34	0.04	-2.54	-2.53	2	2	0	2100	2100	0
10/15/2024 11:29	61701	ELIZ_T1	2	2	0	3.6	3.9	0.3	0	0	0	0	0	0	0	0
10/15/2024 11:30	61703	ELIZ_T1	8	4	-4	0.34	0.23	-0.11	-5.08	-5.06	4	4	0	4200	4200	0
10/15/2024 11:30	48901	FOSP_T2	0	0	0	0	0	0	-0.06	-0.04	1	1	0	600	600	0
10/15/2024 11:30	55501	HERS_T1	52	52	0	0.54	0.48	-0.06	0	0	0	0	0	0	0	0
10/15/2024 11:30	55503	HERS_T1	0	0	0	0	0	0	-1.63	-1.59	1	1	0	1200	1200	0
10/15/2024 11:30	14204	EALL_T2	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
10/15/2024 11:30	61701	ELIZ_T1	2	2	0	3.9	3.6	-0.3	0	0	0	0	0	0	0	0
10/15/2024 11:30	55507	HERS_T1	5	4	-1	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
10/15/2024 11:31	54202	PENN_T2	5	5	0	0.68	0.58	-0.1	0.61	0.7	0	0	0	0	0	0
10/15/2024 11:31	48902	FOSP_T2	0	0	0	0	0	0	-0.4	1.07	2	0	-2	2400	0	-2400
10/15/2024 11:32	55508	HERS_T2	2	2	0	1.8	1.7	-0.1	-2.59	-2.57	1	1	0	1200	1200	0
10/15/2024 11:32	57104	SPHI_T2	2	4	2	0.8	0.65	-0.15	-0.52	-0.52	0	0	0	0	0	0
10/15/2024 11:32	61703	ELIZ_T1	8	4	-4	0.34	0.23	-0.11	-2.54	-2.53	2	2	0	2100	2100	0
10/15/2024 11:32	55507	HERS_T1	5	4	-1	0.18	0.1	-0.08	0.04	0.07	0	0	0	0	0	0
10/15/2024 11:32	61701	ELIZ_T1	2	2	0	3.9	3.6	-0.3	0	0	0	0	0	0	0	0
10/15/2024 11:32	48901	FOSP_T2	0	0	0	0	0	0	-0.06	-0.04	1	1	0	600	600	0
10/15/2024 11:32	55501	HERS_T1	52	52	0	0.54	0.48	-0.06	0	0	0	0	0	0	0	0
10/15/2024 11:32	57106	SPHI_T2	3	3	0	1.23	1.23	0	0	0	0	0	0	0	0	0
10/15/2024 11:32	57101	SPHI_T2	5	5	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
10/15/2024 11:33	64204	KINZ_T1	1	4	3	1.1	0.93	-0.17	0	0	0	0	0	0	0	0
10/15/2024 11:33	64202	KINZ_T1	3	3	0	0.73	0.9	0.17	0	0	0	0	0	0	0	0
10/15/2024 11:33	64203	KINZ_T1	0	0	0	0	0	0	1.54	1.59	1	1	0	600	600	0
10/15/2024 11:34	55508	HERS_T2	2	2	0	1.8	1.7	-0.1	-2.59	-2.57	1	1	0	1200	1200	0
10/15/2024 11:34	55001	NEWP_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/15/2024 11:34	55002	NEWP_T1	7	9	2	0.74	0.62	-0.12	-0.19	-0.23	0	0	0	0	0	0
10/15/2024 11:35	55001	NEWP_T1	1	1	0	0.4	0.2	-0.2	-0.26	-0.24	0	0	0	0	0	0
10/15/2024 11:35	55002	NEWP_T1	7	9	2	0.74	0.62	-0.12	-0.19	-0.23	0	0	0	0	0	0
10/15/2024 11:36	55002	NEWP_T1	7	9	2	0.74	0.62	-0.12	0	0	0	0	0	0	0	0
10/15/2024 11:36	44502	HAMI_T2	1	1	0	2.6	2.8	0.2	-0.93	-0.93	0	0	0	0	0	0
10/15/2024 11:36	55001	NEWP_T1	1	1	0	0.4	0.2	-0.2	-0.26	-0.24	0	0	0	0	0	0
10/15/2024 11:37	55001	NEWP_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/15/2024 11:37	55002	NEWP_T1	7	9	2	0.74	0.62	-0.12	-0.23	-0.24	0	0	0	0	0	0
10/15/2024 11:38	55001	NEWP_T1	1	1	0	0.4	0.2	-0.2	-0.24	-0.24	0	0	0	0	0	0
10/15/2024 11:38	55002	NEWP_T1	7	9	2	0.74	0.62	-0.12	0	0	0	0	0	0	0	0
10/15/2024 11:40	14801	TREI_T2	10	25	15	0.48	0.25	-0.23	0.6	0.6	0	0	0	0	0	0
10/15/2024 11:40	14802	TREI_T2	15	1	1	0.21	0.23	0.02	0	0	0	0	0	0	0	0
10/15/2024 11:40	46002	BERW_T2	0	0	0	0	0	0	-0.76	-0.78	1	1	0	900	900	0
10/15/2024 11:40	16302	ALPA_T2	0	0	0	0	0	0	1.55	1.51	0	0	0	0	0	0
10/15/2024 11:40	46004	BERW_T2	2	3	1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
10/15/2024 11:41	14802	TREI_T2	14	15	1	0.21	0.23	0.02	0.38	0.51	0	0	0	0	0	0
10/15/2024 11:41	16302	ALPA_T2	0	0	0	0	0	0	0.77	0.76	0	0	0	0	0	0
10/15/2024 11:41	14801	TREI_T2	10	25	15	0.48	0.25	-0.23	0	0	0	0	0	0	0	0
10/15/2024 11:42	16302	ALPA_T2	0	0	0	0	0	0	0.77	0.76	0	0	0	0	0	0
10/15/2024 11:42	57403	SPAN_T1	105	57	-48	0.25	0.25	0	-0.04	-0.04	0	0	0	0	0	0
10/15/2024 11:42	57401	SPAN_T1	2	2	0	0.9	0.95	0.05	0	0	0	0	0	0	0	0
10/15/2024 11:43	60801	BUCK_T1	8	4	-4	0.31	0.28	-0.03	-0.22	-0.16	0	0	0	0	0	0
10/15/2024 11:43	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/15/2024 11:44	11303	EMMA_T1	3	3	0	0.67	0.97	0.3	0	0	0	0	0	0	0	0
10/15/2024 11:44	22901	HARW_T1	0	0	0	0	0	0	-0.57	-0.46	1	1	0	1200	1200	0
10/15/2024 11:44	11301	EMMA_T1	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
10/15/2024 11:44	22905	HARW_T1	0	0	0	0	0	0	-0.62	-0.58	0	0	0	0	0	0
10/15/2024 11:44	11302	EMMA_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/15/2024 11:44	14201	EALL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 11:44	14203	EALL_T2	3	2	-1	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
10/15/2024 11:45	11303	EMMA_T1	2	3	1	1.25	0.77	-0.48	0	0	0	0	0	0	0	0
10/15/2024 11:45	11302	EMMA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/15/2024 11:45	11301	EMMA_T1	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
10/15/2024 11:48	67503	WEWI_T2	1	1	0	9.4	9.1	-0.3	-0.27	-0.27	0	0	0	0	0	0
10/15/2024 11:48	67502	WEWI_T2	14	14	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
10/15/2024 11:48	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 11:49	63601	LETO_T1	0	1	1	0	0.2	0.2	0.92	0.81	1	1	0	900	900	0
10/15/2024 11:49	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
10/15/2024 11:49	63602	LETO_T1	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
10/15/2024 11:50	48901	FOSP_T2	0	0	0	0	0	0	-0.04	-0.05	1	1	0	600	600	0
10/15/2024 11:54	16102	BING_T2	5	6	1	0.7	0.28	-0.42	0	0	0	0	0	0	0	0
10/15/2024 11:54	16103	BING_T2	1	1	0	0.2	1	0.8	-1.09	-1.08	2	2	0	1500	1500	0
10/15/2024 11:54	16101	BING_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
10/15/2024 11:55	41503	FAIR_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
10/15/2024 11:55	41501	FAIR_T2	0	0	0	0	0	0	-0.92	-0.91	1	1	0	600	600	0
10/15/2024 11:56	10101	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 11:56	10105	ALLE_T3	0	6	6	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 11:57	47402	PENS_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
10/15/2024 11:57	46005	BERW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/15/2024 11:57	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
10/15/2024 11:57	46001	BERW_T1	0	1	1	0	0.1	0.1	0.86	0.7	0	0	0	0	0	0
10/15/2024 11:57	47401	PENS_T1	1	4	3	0.5	0.58	0.08	0.14	0.22	0	0	0	0	0	0
10/15/2024 11:59	67505	WEWI_T1	0	0	0	0	0	0	-0.09	-0.06	1	1	0	900	900	0
10/15/2024 11:59	67501	WEWI_T1	5	5	0	0.62	0.7	0.08	0	0	0	0	0	0	0	0
10/15/2024 12:00	67501	WEWI_T1	5	0	-5	0.7	0	-0.7	0	0	0	0	0	0	0	0
10/15/2024 12:00	67505	WEWI_T1	0	0	0	0	0	0	-0.09	-0.06	1	1	0	900	900	0
10/15/2024 12:01	22905	HARW_T1	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
10/15/2024 12:01	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 12:01	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.79	0	0	0	0	0	0
10/15/2024 12:01	63501	HEID_TBK1-2	7	47	40	0.37	0.24	-0.13	0.01	0.04	1	1	0	900	900	0
10/15/2024 12:02	10805	CHHI_T2	1	3	2	7.7	2.63	-5.07	-1.08	-1.21	2	2	0	1800	1800	0
10/15/2024 12:05	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 12:08	66505	SMAN_T2	0	0	0	0	0	0	0.36	0.35	2	2	0	1800	1800	0
10/15/2024 12:08	66504	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/15/2024 12:08	66501	SMAN_T2	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
10/15/2024 12:08	66502	SMAN_T2	0	18	18	0	0.31	0.31	0	0	0	0	0	0	0	0
10/15/2024 12:11	66504	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/15/2024 12:11	66502	SMAN_T2	0	18	18	0	0.31	0.31	-0.01	0.06	0	0	0	0	0	0
10/15/2024 12:11	13704	SCHN_T2	5	5	0	0.24	0.16	-0.08	-0.31	-0.34	0	0	0	0	0	0
10/15/2024 12:11	66501	SMAN_T2	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
10/15/2024 12:11	15603	NSTR_T2	1	1	0	0.1	0.5	0.4	-0.6	-0.61	0	0	0	0	0	0
10/15/2024 12:11	13701	SCHN_T2	4	4	0	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
10/15/2024 12:12	54202	PENN_T2	5	4	-1	0.58	0.65	0.07	0.66	0.58	0	0	0	0	0	0
10/15/2024 12:16	50105	HARR_T3	6	6	0	5.55	5.42	-0.13	0	0	0	0	0	0	0	0
10/15/2024 12:16	50201	HARR_T3	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/15/2024 12:16	50107	HARR_T3	1	1	0	8.9	8.4	-0.5	0	0	0	0	0	0	0	0
10/15/2024 12:16	50103	HARR_T3	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
10/15/2024 12:19	66903	SHIL_T2	1	1	0	0.8	0.4	-0.4	-1.03	-0.85	0	0	0	0	0	0
10/15/2024 12:24	14801	TREI_T2	24	62	38	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
10/15/2024 12:24	14802	TREI_T2	16	24	8	0.29	0.23	-0.06	0.71	0.73	0	0	0	0	0	0
10/15/2024 12:25	14802	TREI_T2	16	24	8	0.29	0.23	-0.06	0.35	0.37	0	0	0	0	0	0
10/15/2024 12:25	14801	TREI_T2	24	62	38	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
10/15/2024 12:26	14802	TREI_T2	16	24	8	0.29	0.23	-0.06	0.35	0.37	0	0	0	0	0	0
10/15/2024 12:26	14801	TREI_T2	24	62	38	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
10/15/2024 12:27	14802	TREI_T2	16	24	8	0.29	0.23	-0.06	0.35	0.37	0	0	0	0	0	0
10/15/2024 12:27	45902	AUBU_T1	2	1	-1	0.45	0.7	0.25	0.01	0.25	2	2	0	1200	1200	0
10/15/2024 12:27	14801	TREI_T2	24	62	38	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
10/15/2024 12:28	46004	BERW_T2	0	2	2	0	0.1	0.1	-0.08	-0.23	0	0	0	0	0	0
10/15/2024 12:28	14802	TREI_T2	16	24	8	0.29	0.23	-0.06	0.71	0.73	0	0	0	0	0	0
10/15/2024 12:28	14801	TREI_T2	24	62	38	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
10/15/2024 12:29	46001	BERW_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
10/15/2024 12:29	46005	BERW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/15/2024 12:30	46001	BERW_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
10/15/2024 12:30	67503	WEWI_T2	1	4	3	9.2	2.78	-6.42	-0.26	-0.29	0	0	0	0	0	0
10/15/2024 12:30	45902	AUBU_T1	1	0	-1	0.7	0	-0.7	0.01	0.13	1	1	0	600	600	0
10/15/2024 12:30	46005	BERW_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/15/2024 12:30	67502	WEWI_T2	6	30	24	0.32	0.34	0.02	0	0	0	0	0	0	0	0
10/15/2024 12:31	64305	LINC_T1	5	4	-1	0.46	0.35	-0.11	-0.38	-0.22	0	0	0	0	0	0
10/15/2024 12:31	64304	LINC_T2	21	4	-17	0.19	0.3	0.11	0	0	0	0	0	0	0	0
10/15/2024 12:31	64302	LINC_T2	0	0	0	0	0	0	1.12	1.08	0	0	0	0	0	0
10/15/2024 12:33	54601	SUMM_T2	13	13	0	1.27	0.68	-0.59	-3.04	-2.15	2	1	-1	2100	1200	-900
10/15/2024 12:33	54603	SUMM_T2	2	2	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
10/15/2024 12:33	54602	SUMM_T2	12	1	-11	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
10/15/2024 12:34	42902	MIDD_T2	1	1	0	0.7	1	0.3	-0.39	-0.56	1	1	0	600	600	0
10/15/2024 12:34	42903	MIDD_T2	2	0	-2	0.55	0	-0.55	1.19	1.72	0	0	0	0	0	0
10/15/2024 12:34	54601	SUMM_T2	13	13	0	1.27	0.68	-0.59	-3.04	-2.15	2	1	-1	2100	1200	-900
10/15/2024 12:34	54602	SUMM_T2	12	1	-11	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
10/15/2024 12:34	66903	SHIL_T2	1	0	-1	0.4	0	-0.4	-0.85	-0.84	0	0	0	0	0	0
10/15/2024 12:34	41305	FISH_T1	1	1	0	0.5	0.8	0.3	0.13	0.13	0	0	0	0	0	0
10/15/2024 12:34	54603	SUMM_T2	2	2	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
10/15/2024 12:34	41301	FISH_T1	5	5	0	1.56	1.32	-0.24	0	0	0	0	0	0	0	0
10/15/2024 12:35	42902	MIDD_T2	1	1	0	0.7	1	0.3	-0.39	-0.56	1	1	0	600	600	0
10/15/2024 12:35	54603	SUMM_T2	2	2	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
10/15/2024 12:35	54601	SUMM_T2	13	13	0	1.27	0.68	-0.59	-3.04	-2.15	2	1	-1	2100	1200	-900
10/15/2024 12:35	54602	SUMM_T2	12	1	-11	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
10/15/2024 12:35	42903	MIDD_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
10/15/2024 12:36	54602	SUMM_T2	12	1	-11	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
10/15/2024 12:36	54601	SUMM_T2	13	13	0	1.27	0.68	-0.59	-6.09	-4.29	4	2	-2	4200	2400	-1800
10/15/2024 12:36	54603	SUMM_T2	2	2	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
10/15/2024 12:36	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 12:37	65601	QVIL_T2	5	2	-3	0.52	0.45	-0.07	0	0	0	0	0	0	0	0
10/15/2024 12:37	54603	SUMM_T2	2	2	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
10/15/2024 12:37	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 12:37	54601	SUMM_T2	13	13	0	1.27	0.68	-0.59	-10.73	-10.54	5	5	0	6000	6000	0
10/15/2024 12:37	54602	SUMM_T2	12	1	-11	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
10/15/2024 12:38	54601	SUMM_T2	13	13	0	1.27	0.68	-0.59	-2.15	-2.11	1	1	0	1200	1200	0
10/15/2024 12:38	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 12:38	54603	SUMM_T2	2	2	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
10/15/2024 12:38	54602	SUMM_T2	12	1	-11	0.43	0.1	-0.33	0	0	1	1	0	600	600	0
10/15/2024 12:38	41902	REED_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/15/2024 12:40	13704	SCHN_T2	5	6	1	0.12	0.18	0.06	-0.34	-0.35	0	0	0	0	0	0
10/15/2024 12:40	13701	SCHN_T2	0	6	6	0	0.37	0.37	0	0	0	0	0	0	0	0
10/15/2024 12:41	67201	TEHI_T1	3	1	-2	0.57	1.2	0.63	0	0	0	0	0	0	0	0
10/15/2024 12:41	67502	WEWI_T2	6	30	24	0.32	0.34	0.02	0	0	0	0	0	0	0	0
10/15/2024 12:41	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 12:41	50623	CCTY_T2	5	5	0	5.78	5.76	-0.02	0	0	0	0	0	0	0	0
10/15/2024 12:41	50625	CCTY_T2	4	6	2	3.38	2.3	-1.08	0	0	0	0	0	0	0	0
10/15/2024 12:41	67503	WEWI_T2	1	4	3	9.2	2.78	-6.42	-0.29	-0.3	0	0	0	0	0	0
10/15/2024 12:41	67203	TEHI_T1	0	1	1	0	0	0	3.26	3.07	2	2	0	1500	1500	0
10/15/2024 12:41	50624	CCTY_T2	2	2	0	6.25	6.2	-0.05	0	0	0	0	0	0	0	0
10/15/2024 12:44	45501	DERR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/15/2024 12:44	45502	DERR_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
10/15/2024 12:45	46004	BERW_T2	1	2	1	0.1	0.1	0	-0.23	-0.23	0	0	0	0	0	0
10/15/2024 12:46	45802	HEGI_T2	20	26	6	0.36	0.38	0.02	2.27	2.29	0	0	0	0	0	0
10/15/2024 12:47	20603	GRWO_T2	6	2	-4	0.23	0.25	0.02	-0.65	-0.66	1	1	0	900	900	0
10/15/2024 12:47	46801	HEPB_T2	2	3	1	0.6	0.6	0	0.52	0.52	0	0	0	0	0	0
10/15/2024 12:49	64801	MONE_T2	2	3	1	0.5	0.5	0	0	0	0	0	0	0	0	0
10/15/2024 12:49	64802	MONE_T2	24	19	-5	0.34	0.36	0.02	0.18	0.18	0	0	0	0	0	0
10/15/2024 12:50	64802	MONE_T2	24	19	-5	0.34	0.36	0.02	0	0	0	0	0	0	0	0
10/15/2024 12:50	64801	MONE_T2	2	3	1	0.5	0.5	0	0.27	0.26	0	0	0	0	0	0
10/15/2024 12:50	40601	PIGR_T1	62	86	24	0.31	0.32	0.01	0	0	0	0	0	0	0	0
10/15/2024 12:50	40602	PIGR_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
10/15/2024 12:51	40601	PIGR_T1	62	86	24	0.31	0.32	0.01	0	0	0	0	0	0	0	0
10/15/2024 12:51	40602	PIGR_T1	1	1	0	1.2	1	-0.2	-0.68	-0.57	1	1	0	600	600	0
10/15/2024 12:52	24204	PROV_T3	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
10/15/2024 12:52	64305	LINC_T1	4	1	-3	0.35	0.2	-0.15	-0.22	-0.27	0	0	0	0	0	0
10/15/2024 12:52	24201	PROV_T3	1	1	0	7.7	7.4	-0.3	0	0	1	1	0	1200	1200	0
10/15/2024 12:53	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 12:54	65501	MOJO_T1	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
10/15/2024 12:55	16301	ALPA_T1	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
10/15/2024 12:57	57201	ROSS_T1	0	17	17	0	0.15	0.15	-0.81	-0.82	0	0	0	0	0	0
10/15/2024 12:57	57205	ROSS_T1	1	3	2	0.8	0.73	-0.07	0	0	0	0	0	0	0	0
10/15/2024 12:57	16301	ALPA_T1	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
10/15/2024 12:58	16301	ALPA_T1	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
10/15/2024 12:58	67602	WARW_T2	0	0	0	0	0	0	1.47	1.44	1	1	0	300	300	0
10/15/2024 12:59	16301	ALPA_T1	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
10/15/2024 12:59	67602	WARW_T2	0	0	0	0	0	0	2.95	2.87	2	2	0	600	600	0
10/15/2024 13:02	20601	GRWO_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
10/15/2024 13:02	20603	GRWO_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
10/15/2024 13:03	46801	HEPB_T2	2	2	0	0.4	0.6	0.2	0.52	0.51	0	0	0	0	0	0
10/15/2024 13:03	64101	REFR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 13:04	42902	MIDD_T2	1	0	-1	1	0	-1	-0.88	-0.59	2	2	0	1200	1200	0
10/15/2024 13:05	42902	MIDD_T2	1	0	-1	1	0	-1	-0.44	-0.3	1	1	0	600	600	0
10/15/2024 13:06	64101	REFR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 13:07	64101	REFR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 13:08	13701	SCHN_T2	6	2	-4	0.37	0.15	-0.22	0	0	0	0	0	0	0	0
10/15/2024 13:08	13704	SCHN_T2	4	1	-3	0.13	0.6	0.47	-0.34	-0.34	0	0	0	0	0	0
10/15/2024 13:09	13701	SCHN_T2	6	2	-4	0.37	0.15	-0.22	0	0	0	0	0	0	0	0
10/15/2024 13:09	13704	SCHN_T2	4	1	-3	0.13	0.6	0.47	-0.34	-0.34	0	0	0	0	0	0
10/15/2024 13:10	57203	ROSS_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
10/15/2024 13:10	57205	ROSS_T1	3	1	-2	0.73	0.8	0.07	0	0	0	0	0	0	0	0
10/15/2024 13:10	57201	ROSS_T1	17	2	-15	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
10/15/2024 13:11	57205	ROSS_T1	3	1	-2	0.73	0.8	0.07	0	0	0	0	0	0	0	0
10/15/2024 13:11	67102	SPRI_T2	20	114	94	0.11	0.14	0.03	0	0	0	0	0	0	0	0
10/15/2024 13:11	67106	SPRI_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
10/15/2024 13:11	57203	ROSS_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
10/15/2024 13:11	57201	ROSS_T1	17	2	-15	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
10/15/2024 13:12	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 13:12	67102	SPRI_T2	20	114	94	0.11	0.14	0.03	0	0	0	0	0	0	0	0
10/15/2024 13:16	40701	FFLD_T1	10	25	15	0.16	0.23	0.07	0	0	0	0	0	0	0	0
10/15/2024 13:16	40703	FFLD_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/15/2024 13:16	40702	FFLD_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/15/2024 13:16	61001	DONV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/15/2024 13:17	50103	HARR_T3	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/15/2024 13:17	50201	HARR_T3	1	1	0	0.4	0.7	0.3	0	0	1	1	0	1200	1200	0
10/15/2024 13:17	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
10/15/2024 13:17	50107	HARR_T3	1	1	0	8.7	8.6	-0.1	0	0	0	0	0	0	0	0
10/15/2024 13:17	63801	HEMP_T1	1	0	-1	0.8	0	-0.8	0.22	0.2	0	0	0	0	0	0
10/15/2024 13:17	50105	HARR_T3	6	6	0	5.7	5.45	-0.25	0	0	0	0	0	0	0	0
10/15/2024 13:17	63803	HEMP_T1	2	1	-1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
10/15/2024 13:18	11804	FRAN_T1	3	4	1	0.47	0.73	0.26	0	0	0	0	0	0	0	0
10/15/2024 13:18	61001	DONV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/15/2024 13:18	63801	HEMP_T1	1	0	-1	0.8	0	-0.8	0.22	0.2	0	0	0	0	0	0
10/15/2024 13:18	11805	FRAN_T1	0	6	6	0	0.85	0.85	0	0	0	0	0	0	0	0
10/15/2024 13:18	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
10/15/2024 13:18	63803	HEMP_T1	2	1	-1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
10/15/2024 13:18	41202	KENM_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/15/2024 13:18	41205	KENM_T2	0	0	0	0	0	0	-0.76	-0.75	1	1	0	600	600	0
10/15/2024 13:19	40602	PIGR_T1	1	2	1	1.1	0.75	-0.35	0	0	0	0	0	0	0	0
10/15/2024 13:19	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 13:19	40601	PIGR_T1	22	33	11	0.31	0.33	0.02	0	0	0	0	0	0	0	0
10/15/2024 13:22	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 13:23	67401	WAKE_T2	3	4	1	0.3	0.7	0.4	-1.04	-1.08	0	0	0	0	0	0
10/15/2024 13:25	14801	TREI_T2	21	7	-14	0.21	0.64	0.43	0.29	0.3	0	0	0	0	0	0
10/15/2024 13:25	14802	TREI_T2	12	15	3	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
10/15/2024 13:26	14801	TREI_T2	21	7	-14	0.21	0.64	0.43	0	0	0	0	0	0	0	0
10/15/2024 13:26	67401	WAKE_T2	3	4	1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
10/15/2024 13:26	14802	TREI_T2	12	15	3	0.33	0.29	-0.04	0.32	0.31	0	0	0	0	0	0
10/15/2024 13:26	67402	WAKE_T2	0	0	0	0	0	0	0.37	0.34	1	1	0	600	600	0
10/15/2024 13:27	67605	WARW_T1	19	38	19	0.57	0.58	0.01	-1.08	-1.08	0	0	0	0	0	0
10/15/2024 13:27	14802	TREI_T2	12	15	3	0.33	0.29	-0.04	0.32	0.31	0	0	0	0	0	0
10/15/2024 13:27	67603	WARW_T1	2	3	1	0.55	0.57	0.02	0	0	0	0	0	0	0	0
10/15/2024 13:27	14801	TREI_T2	21	7	-14	0.21	0.64	0.43	0	0	0	0	0	0	0	0
10/15/2024 13:29	14802	TREI_T2	12	15	3	0.33	0.29	-0.04	0.32	0.31	0	0	0	0	0	0
10/15/2024 13:29	14801	TREI_T2	21	7	-14	0.21	0.64	0.43	0	0	0	0	0	0	0	0
10/15/2024 13:31	53501	EVIL_T2	2	1	-1	0.7	1.3	0.6	-0.3	-0.51	2	2	0	1200	1200	0
10/15/2024 13:32	22901	HARW_T1	0	0	0	0	0	0	-0.28	-0.38	1	1	0	1200	1200	0
10/15/2024 13:32	64701	LITI_T1	0	0	0	0	0	0	0.27	0.32	0	0	0	0	0	0
10/15/2024 13:38	64202	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/15/2024 13:38	64204	KINZ_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
10/15/2024 13:38	64201	KINZ_T1	0	1	1	0	0.1	0.1	-0.7	-0.43	3	3	0	1500	1500	0
10/15/2024 13:40	64201	KINZ_T1	0	1	1	0	0.1	0.1	-0.7	-0.43	3	3	0	1500	1500	0
10/15/2024 13:40	51303	WIND_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/15/2024 13:40	51305	WIND_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
10/15/2024 13:40	13704	SCHN_T2	1	2	1	0.2	0.2	0	-0.33	-0.34	0	0	0	0	0	0
10/15/2024 13:40	64202	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/15/2024 13:40	64204	KINZ_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
10/15/2024 13:40	51301	WIND_T1	0	0	0	0	0	0	0.52	0.55	0	0	0	0	0	0
10/15/2024 13:43	51303	WIND_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/15/2024 13:43	60102	COCA_T1	0	0	0	0	0	0	0.39	0.32	2	2	0	1200	1200	0
10/15/2024 13:43	60103	COCA_T2	0	0	0	0	0	0	-1.47	-1.43	1	1	0	1200	1200	0
10/15/2024 13:43	51305	WIND_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
10/15/2024 13:43	60101	COCA_T1	1	3	2	0.1	0.53	0.43	0.28	0.38	0	0	0	0	0	0
10/15/2024 13:44	60102	COCA_T1	0	0	0	0	0	0	0.39	0.32	2	2	0	1200	1200	0
10/15/2024 13:44	60101	COCA_T1	1	3	2	0.1	0.53	0.43	0	0	0	0	0	0	0	0
10/15/2024 13:44	67103	SPRI_T1	1	0	-1	0.3	0	-0.3	-0.01	-0.01	0	0	0	0	0	0
10/15/2024 13:45	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
10/15/2024 13:45	63803	HEMP_T1	1	4	3	0.1	0.35	0.25	0.09	0.12	0	0	0	0	0	0
10/15/2024 13:45	63801	HEMP_T1	0	6	6	0	0.37	0.37	0	0	0	0	0	0	0	0
10/15/2024 13:46	64704	LITI_T1	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
10/15/2024 13:49	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
10/15/2024 13:49	63803	HEMP_T1	1	4	3	0.1	0.35	0.25	0.09	0.12	0	0	0	0	0	0
10/15/2024 13:49	63801	HEMP_T1	0	6	6	0	0.37	0.37	0	0	0	0	0	0	0	0
10/15/2024 13:53	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
10/15/2024 13:53	63803	HEMP_T1	1	4	3	0.1	0.35	0.25	0.12	0.14	0	0	0	0	0	0
10/15/2024 13:53	63801	HEMP_T1	0	6	6	0	0.37	0.37	0	0	0	0	0	0	0	0
10/15/2024 13:54	51304	WIND_T2	1	1	0	1.2	0.6	-0.6	0	0	0	0	0	0	0	0
10/15/2024 13:54	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 13:55	14802	TREI_T2	10	17	7	0.16	0.25	0.09	0.33	0.4	0	0	0	0	0	0
10/15/2024 13:55	13704	SCHN_T2	1	2	1	0.1	0.2	0.1	-0.34	-0.36	0	0	0	0	0	0
10/15/2024 13:55	14801	TREI_T2	7	11	4	0.56	0.58	0.02	0	0	0	0	0	0	0	0
10/15/2024 13:56	10805	CHHI_T2	1	1	0	7.7	7	-0.7	-1.32	-1.34	2	2	0	1800	1800	0
10/15/2024 13:56	13704	SCHN_T2	1	2	1	0.1	0.2	0.1	-0.34	-0.36	0	0	0	0	0	0
10/15/2024 13:58	15201	SFAR_T1	0	0	0	0	0	0	-0.59	-0.66	2	2	0	1800	1800	0
10/15/2024 13:59	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	-1.41	-1.37	1	1	0	600	600	0
10/15/2024 13:59	14801	TREI_T2	7	11	4	0.56	0.58	0.02	0	0	0	0	0	0	0	0
10/15/2024 13:59	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
10/15/2024 13:59	54504	ENOL_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
10/15/2024 13:59	54501	ENOL_T2	4	4	0	0.28	0.28	0	0.09	0.08	0	0	0	0	0	0
10/15/2024 13:59	14802	TREI_T2	10	17	7	0.16	0.25	0.09	0.33	0.4	0	0	0	0	0	0
10/15/2024 14:00	20403	ASHF_T2	0	6	6	0	0.58	0.58	0	0	0	0	0	0	0	0
10/15/2024 14:00	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
10/15/2024 14:00	20401	ASHF_T2	0	3	3	0	0.23	0.23	-0.33	-0.31	0	0	0	0	0	0
10/15/2024 14:00	54501	ENOL_T2	3	4	1	0.23	0.28	0.05	0	0	0	0	0	0	0	0
10/15/2024 14:00	54504	ENOL_T2	0	1	1	0	1	1	-1.2	-1.19	1	1	0	600	600	0
10/15/2024 14:00	54505	ENOL_T2	1	1	0	1.1	1.2	0.2	-1.41	-1.37	1	1	0	600	600	0
10/15/2024 14:00	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/15/2024 14:01	54501	ENOL_T2	3	4	1	0.23	0.28	0.05	0	0	0	0	0	0	0	0
10/15/2024 14:01	61503	EPET_T1	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
10/15/2024 14:01	55508	HERS_T2	5	24	19	0.9	0.25	-0.65	-2.59	-2.58	1	1	0	1200	1200	0
10/15/2024 14:01	54505	ENOL_T2	1	1	0	1	1.2	0.2	-1.41	-1.37	1	1	0	600	600	0
10/15/2024 14:01	61502	EPET_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
10/15/2024 14:01	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
10/15/2024 14:01	54504	ENOL_T2	0	1	1	0	1	1	-1.2	-1.19	1	1	0	600	600	0
10/15/2024 14:03	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
10/15/2024 14:03	54505	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
10/15/2024 14:03	54504	ENOL_T2	0	1	1	0	1	1	-1.2	-1.19	1	1	0	600	600	0
10/15/2024 14:03	54501	ENOL_T2	3	4	1	0.23	0.28	0.05	0	0	0	0	0	0	0	0
10/15/2024 14:12	27503	WEIS_T2	16	4	-12	0.14	0.28	0.14	0	0	0	0	0	0	0	0
10/15/2024 14:12	27502	WEIS_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
10/15/2024 14:13	60801	BUCK_T1	2	4	2	0.45	0.23	-0.22	-0.12	-0.14	0	0	0	0	0	0
10/15/2024 14:16	23203	HIRU_T2	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
10/15/2024 14:16	23201	HIRU_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/15/2024 14:21	65601	QVIL_T2	1	1	0	0.1	0.2	0.1	-1.17	-1.22	1	1	0	900	900	0
10/15/2024 14:22	66504	SMAN_T2	0	0	0	0	0	0	-0.52	-0.49	0	0	0	0	0	0
10/15/2024 14:22	66505	SMAN_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
10/15/2024 14:22	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/15/2024 14:23	66505	SMAN_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
10/15/2024 14:23	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/15/2024 14:23	66504	SMAN_T2	0	0	0	0	0	0	-0.52	-0.49	0	0	0	0	0	0
10/15/2024 14:24	66504	SMAN_T2	0	0	0	0	0	0	-0.52	-0.49	0	0	0	0	0	0
10/15/2024 14:24	66505	SMAN_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
10/15/2024 14:24	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/15/2024 14:25	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/15/2024 14:25	66504	SMAN_T2	0	0	0	0	0	0	-0.52	-0.49	0	0	0	0	0	0
10/15/2024 14:25	66505	SMAN_T2	0	3	3	0	0.27	0.27	0.1	0.1	1	1	0	900	900	0
10/15/2024 14:26	15203	SFAR_T2	0	3	3	0	0.4	0.4	-1.38	-1.39	0	0	0	0	0	0
10/15/2024 14:27	66505	SMAN_T2	0	3	3	0	0.27	0.27	0.1	0.1	1	1	0	900	900	0
10/15/2024 14:27	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/15/2024 14:29	23403	HONE_T1	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
10/15/2024 14:29	16301	ALPA_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
10/15/2024 14:31	22602	KIMB_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
10/15/2024 14:33	24101	EHAZ_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
10/15/2024 14:33	24104	EHAZ_T1	0	1	1	0	0.1	0.1	-0.87	-0.87	1	1	0	1200	1200	0
10/15/2024 14:33	24105	EHAZ_T1	4	4	0	6.33	6.05	-0.28	0	0	0	0	0	0	0	0
10/15/2024 14:33	24102	EHAZ_T1	22	2	-20	0.4	0.7	0.3	0	0	0	0	0	0	0	0
10/15/2024 14:36	20201	JERM_T1	0	0	0	0	0	0	-0.33	-0.45	2	2	0	2400	2400	0
10/15/2024 14:41	67102	SPRI_T2	1070	0	-1070	0.26	0	-0.26	0	0	0	0	0	0	0	0
10/15/2024 14:41	67106	SPRI_T2	0	0	0	0	0	0	-1.22	-1.2	1	1	0	900	900	0
10/15/2024 14:44	66902	SHIL_T2	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
10/15/2024 14:45	14203	EALL_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
10/15/2024 14:45	14201	EALL_T1	0	1	1	0	0.5	0.5	0.5	0.48	0	0	0	0	0	0
10/15/2024 14:46	40902	JESH_T1	0	0	0	0	0	0	-1.03	-1.05	1	1	0	600	600	0
10/15/2024 14:46	22602	KIMB_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
10/15/2024 14:46	22601	KIMB_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/15/2024 14:46	40901	JESH_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/15/2024 14:46	63501	HEID_TBK1-2	4	32	28	0.75	0.27	-0.48	0.12	0.06	1	1	0	900	900	0
10/15/2024 14:47	22601	KIMB_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/15/2024 14:47	22602	KIMB_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
10/15/2024 14:48	40902	JESH_T1	0	0	0	0	0	0	-1.03	-1.05	1	1	0	600	600	0
10/15/2024 14:48	40901	JESH_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/15/2024 14:48	63501	HEID_TBK1-2	4	32	28	0.75	0.27	-0.48	0.24	0.12	2	2	0	1800	1800	0
10/15/2024 14:50	63501	HEID_TBK1-2	4	32	28	0.75	0.27	-0.48	0.12	0.06	1	1	0	900	900	0
10/15/2024 14:51	67503	WEWI_T2	3	1	-2	3.23	9.1	5.87	-0.28	-0.28	0	0	0	0	0	0
10/15/2024 14:51	67502	WEWI_T2	11	43	32	0.45	0.15	-0.3	0	0	0	0	0	0	0	0
10/15/2024 14:55	14801	TREI_T2	4	2	-2	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
10/15/2024 14:55	14802	TREI_T2	1	0	-1	0.1	0	-0.1	0.31	0.31	0	0	0	0	0	0
10/15/2024 14:57	46004	BERW_T2	1	1	0	0.1	0.3	0.2	-0.22	-0.3	0	0	0	0	0	0
10/15/2024 14:59	40701	FFLD_T1	34	71	37	0.4	0.45	0.05	0	0	0	0	0	0	0	0
10/15/2024 14:59	40702	FFLD_T1	2	8	6	0.2	0.24	0.04	-0.29	-0.22	1	1	0	1200	1200	0
10/15/2024 14:59	40703	FFLD_T1	2	4	2	0.25	0.4	0.15	0	0	0	0	0	0	0	0
10/15/2024 15:00	21501	CEAV_T2	0	0	0	0	0	0	0.25	0.29	1	1	0	1200	1200	0
10/15/2024 15:07	43802	SWIL_T1	0	0	0	0	0	0	-0.24	-0.25	1	1	0	600	600	0
10/15/2024 15:07	43801	SWIL_T1	1	2	1	5.1	2.95	-2.15	0	0	0	0	0	0	0	0
10/15/2024 15:08	43801	SWIL_T1	1	2	1	5.1	2.95	-2.15	0	0	0	0	0	0	0	0
10/15/2024 15:08	43802	SWIL_T1	0	0	0	0	0	0	-0.24	-0.25	1	1	0	600	600	0
10/15/2024 15:09	43801	SWIL_T1	1	2	1	5.1	2.95	-2.15	0	0	0	0	0	0	0	0
10/15/2024 15:09	66502	SMAN_T2	4	1	-3	0.13	0.1	-0.03	0.42	0.43	0	0	0	0	0	0
10/15/2024 15:09	43802	SWIL_T1	0	0	0	0	0	0	-0.24	-0.25	1	1	0	600	600	0
10/15/2024 15:09	66505	SMAN_T2	3	2	-1	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
10/15/2024 15:09	66501	SMAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/15/2024 15:10	66502	SMAN_T2	4	1	-3	0.13	0.1	-0.03	0.42	0.43	0	0	0	0	0	0
10/15/2024 15:10	66505	SMAN_T2	3	2	-1	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
10/15/2024 15:10	66504	SMAN_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/15/2024 15:10	66501	SMAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/15/2024 15:12	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 15:12	21206	ECAR_T2	1	1	0	6.9	7.2	0.3	1.36	1.31	0	0	0	0	0	0
10/15/2024 15:13	46004	BERW_T2	1	1	0	0.3	0.2	-0.1	-0.3	-0.25	0	0	0	0	0	0
10/15/2024 15:13	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 15:13	66505	SMAN_T2	3	2	-1	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
10/15/2024 15:13	66502	SMAN_T2	4	1	-3	0.13	0.1	-0.03	0.42	0.43	0	0	0	0	0	0
10/15/2024 15:13	66501	SMAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/15/2024 15:14	40801	EXCH_T2	0	0	0	0	0	0	-0.56	-0.54	1	1	0	1200	1200	0
10/15/2024 15:14	66502	SMAN_T2	4	1	-3	0.13	0.1	-0.03	0.42	0.43	0	0	0	0	0	0
10/15/2024 15:14	66505	SMAN_T2	3	2	-1	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
10/15/2024 15:14	66501	SMAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/15/2024 15:17	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 15:18	40901	JESH_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/15/2024 15:18	40902	JESH_T1	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
10/15/2024 15:22	54602	SUMM_T2	17	14	-3	0.44	0.31	-0.13	0	0	1	1	0	600	600	0
10/15/2024 15:22	54601	SUMM_T2	14	15	1	1.29	1.09	-0.2	0	0	0	0	0	0	0	0
10/15/2024 15:22	54603	SUMM_T2	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
10/15/2024 15:28	14802	TREI_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
10/15/2024 15:28	14801	TREI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/15/2024 15:29	14802	TREI_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
10/15/2024 15:29	14801	TREI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/15/2024 15:31	60101	COCA_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
10/15/2024 15:34	64704	LITI_T1	0	0	0	0	0	0	0.61	0.74	0	0	0	0	0	0
10/15/2024 15:34	43301	WATS_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
10/15/2024 15:34	43304	WATS_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/15/2024 15:35	64704	LITI_T1	0	0	0	0	0	0	0.61	0.74	0	0	0	0	0	0
10/15/2024 15:41	67401	WAKE_T2	1	3	2	0.1	0.13	0.03	-1.13	-1.1	0	0	0	0	0	0
10/15/2024 15:45	11901	ETEX_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/15/2024 15:45	11904	ETEX_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
10/15/2024 15:46	41202	KENM_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/15/2024 15:46	41204	KENM_T2	0	0	0	0	0	0	0	0.06	0	0	0	0	0	0
10/15/2024 15:46	11904	ETEX_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
10/15/2024 15:46	11901	ETEX_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/15/2024 15:51	63501	HEID_TBK1-2	40	46	6	0.45	0.45	0	-0.35	0.48	1	1	0	900	900	0
10/15/2024 15:52	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/15/2024 15:52	64204	KINZ_T1	1	2	1	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
10/15/2024 15:52	64201	KINZ_T1	1	5	4	0.7	0.44	-0.26	-0.8	-0.51	3	2	-1	1500	1200	-300
10/15/2024 15:54	61101	BERK_T5	2	5	3	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/15/2024 15:54	61103	BERK_T5	5	10	5	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/15/2024 15:54	61102	BERK_T5	1	1	0	0.4	0.5	0.1	0.04	0	1	1	0	300	300	0
10/15/2024 15:56	60102	COCA_T1	0	0	0	0	0	0	-0.06	-0.39	2	2	0	1200	1200	0
10/15/2024 15:56	60101	COCA_T1	0	0	0	0	0	0	0.19	0.37	0	0	0	0	0	0
10/15/2024 16:00	46004	BERW_T2	1	1	0	0.3	0.1	-0.2	-0.38	-0.23	0	0	0	0	0	0
10/15/2024 16:00	46002	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/15/2024 16:03	10805	CHHI_T2	1	1	0	8.2	8.1	-0.1	-0.75	-0.81	0	0	0	0	0	0
10/15/2024 16:03	11203	ELHE_T1	0	0	0	0	0	0	0.93	0.89	0	0	0	0	0	0
10/15/2024 16:05	60101	COCA_T1	0	0	0	0	0	0	0.19	0.37	0	0	0	0	0	0
10/15/2024 16:07	15703	TANN_T2	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
10/15/2024 16:07	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.42	0	0	0	0	0	0
10/15/2024 16:12	54206	PENN_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
10/15/2024 16:13	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 16:15	10602	BLGL_T2	2	0	-2	0.4	0	-0.4	0.07	0	0	0	0	0	0	0
10/15/2024 16:15	54206	PENN_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
10/15/2024 16:19	11203	ELHE_T1	0	0	0	0	0	0	0.89	0.9	0	0	0	0	0	0
10/15/2024 16:20	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 16:25	42601	TUSC_T1	0	0	0	0	0	0	-0.29	-0.29	2	2	0	1800	1800	0
10/15/2024 16:29	51604	DUKE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/15/2024 16:31	24102	EHAZ_T1	3	24	21	0.6	0.94	0.34	0	0	0	0	0	0	0	0
10/15/2024 16:31	24105	EHAZ_T1	4	4	0	6.55	6.13	-0.42	0	0	0	0	0	0	0	0
10/15/2024 16:31	24104	EHAZ_T1	0	0	0	0	0	0	-0.88	-0.89	1	1	0	1200	1200	0
10/15/2024 16:33	65302	NBRI_T2	0	0	0	0	0	0	-0.97	0	1	0	-1	600	0	-600
10/15/2024 16:35	65302	NBRI_T2	0	0	0	0	0	0	-1.95	-0.01	2	0	-2	1200	0	-1200
10/15/2024 16:37	65302	NBRI_T2	0	0	0	0	0	0	0	-0.72	0	0	0	0	0	0
10/15/2024 16:45	64401	LAND_T1	0	0	0	0	0	0	-1.11	-1.12	1	1	0	600	600	0
10/15/2024 16:46	64401	LAND_T1	0	0	0	0	0	0	-3.33	-3.36	3	3	0	1800	1800	0
10/15/2024 16:48	64701	LITI_T1	0	0	0	0	0	0	0.1	0.06	0	0	0	0	0	0
10/15/2024 16:49	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/15/2024 16:49	11603	CEAL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 16:53	65003	NEFF_T2	44	3	-41	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
10/15/2024 16:53	65004	NEFF_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
10/15/2024 16:57	67401	WAKE_T2	3	0	-3	0.1	0	-0.1	-2.27	-2.33	0	0	0	0	0	0
10/15/2024 17:05	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 17:05	40901	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/15/2024 17:06	46101	MACI_T2	0	0	0	0	0	0	-0.35	-0.56	1	1	0	1200	1200	0
10/15/2024 17:13	55507	HERS_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
10/15/2024 17:13	55501	HERS_T1	52	52	0	0.16	0.31	0.15	0	0	0	0	0	0	0	0
10/15/2024 17:13	20103	AVOC_T1	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
10/15/2024 17:28	46002	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 17:28	46004	BERW_T2	1	2	1	0.2	0.95	0.75	-0.34	-0.32	0	0	0	0	0	0
10/15/2024 17:44	57203	ROSS_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
10/15/2024 17:58	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/15/2024 17:58	57401	SPAN_T1	2	2	0	0.65	0.9	0.25	-0.04	0.19	0	0	0	0	0	0
10/15/2024 18:42	63803	HEMP_T1	0	0	0	0	0	0	0.55	0.57	0	0	0	0	0	0
10/15/2024 18:42	63804	HEMP_T1	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
10/15/2024 20:04	17002	RIRO_T2	28	91	63	0.13	0.14	0.01	0.36	0.32	0	0	0	0	0	0
10/15/2024 20:14	16301	ALPA_T1	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
10/15/2024 20:15	24104	EHAZ_T1	0	0	0	0	0	0	-0.89	-0.9	1	1	0	1200	1200	0
10/15/2024 20:15	24102	EHAZ_T1	0	21	21	0	0.49	0.49	0	0	0	0	0	0	0	0
10/15/2024 20:15	24105	EHAZ_T1	0	4	4	0	6.53	6.53	0	0	0	0	0	0	0	0
10/15/2024 20:15	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.36	0	0	0	0	0	0
10/15/2024 20:16	10602	BLGL_T2	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
10/15/2024 20:17	48901	FOSP_T2	0	0	0	0	0	0	-0.42	-0.38	1	1	0	600	600	0
10/15/2024 20:17	15703	TANN_T2	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
10/15/2024 20:17	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
10/15/2024 20:18	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:18	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/15/2024 20:18	14201	EALL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:18	11604	CEAL_T1	5	5	0	3.14	2.34	-0.8	0	0	0	0	0	0	0	0
10/15/2024 20:18	20603	GRWO_T2	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
10/15/2024 20:19	64302	LINC_T2	0	0	0	0	0	0	0.81	0.91	0	0	0	0	0	0
10/15/2024 20:19	63501	HEID_TBK1-2	0	1	1	0	0.7	0.7	0.33	0.3	0	0	0	0	0	0
10/15/2024 20:19	27502	WEIS_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
10/15/2024 20:20	66902	SHIL_T2	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
10/15/2024 20:20	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:20	10805	CHHI_T2	1	2	1	7.7	7.4	-0.3	-1.35	-1.41	1	1	0	600	600	0
10/15/2024 20:20	46002	BERW_T2	0	0	0	0	0	0	-1.17	-1.17	1	1	0	900	900	0
10/15/2024 20:21	64904	MILL_T1	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
10/15/2024 20:21	14802	TREI_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
10/15/2024 20:21	67605	WARW_T1	6	8	2	0.22	0.25	0.03	-1.09	-1.15	0	0	0	0	0	0
10/15/2024 20:21	66505	SMAN_T2	3	3	0	0.73	1	0.27	-0.23	-0.26	1	1	0	900	900	0
10/15/2024 20:21	24702	FLND_T2	0	0	0	0	0	0	-0.1	-0.03	1	1	0	1200	1200	0
10/15/2024 20:21	67602	WARW_T2	0	0	0	0	0	0	1.3	1.37	1	1	0	300	300	0
10/15/2024 20:21	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:22	24105	EHAZ_T1	4	4	0	6.23	6.38	0.15	0	0	0	0	0	0	0	0
10/15/2024 20:22	61103	BERK_T5	22	5	-17	0.1	0.1	0	0	0	0	0	0	0	0	0
10/15/2024 20:22	61101	BERK_T5	5	2	-3	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
10/15/2024 20:22	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:22	25402	LAHA_T2	0	0	0	0	0	0	-0.86	-0.9	0	0	0	0	0	0
10/15/2024 20:22	24102	EHAZ_T1	23	21	-2	0.77	0.53	-0.24	0	0	0	0	0	0	0	0
10/15/2024 20:22	61701	ELIZ_T1	1	1	0	4.7	4.7	0	0.05	0.29	0	0	0	0	0	0
10/15/2024 20:22	24104	EHAZ_T1	0	0	0	0	0	0	-0.9	-0.89	1	1	0	1200	1200	0
10/15/2024 20:22	11604	CEAL_T1	5	5	0	3.14	2.34	-0.8	0	0	0	0	0	0	0	0
10/15/2024 20:22	63501	HEID_TBK1-2	0	1	1	0	0.7	0.7	0.3	0.3	0	0	0	0	0	0
10/15/2024 20:22	61102	BERK_T5	2	1	-1	0.45	0.6	0.15	-0.18	-0.08	1	1	0	300	300	0
10/15/2024 20:22	60101	COCA_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
10/15/2024 20:22	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:22	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/15/2024 20:23	67605	WARW_T1	6	8	2	0.22	0.25	0.03	0	0	0	0	0	0	0	0
10/15/2024 20:23	67602	WARW_T2	0	0	0	0	0	0	2.61	2.73	2	2	0	600	600	0
10/15/2024 20:23	65004	NEFF_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
10/15/2024 20:23	46001	BERW_T1	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
10/15/2024 20:23	40101	HUNT_T2	3	3	0	0.57	0	-0.57	0	0	0	0	0	0	0	0
10/15/2024 20:23	64401	LAND_T1	0	0	0	0	0	0	-1.2	-1.23	1	1	0	600	600	0
10/15/2024 20:23	23201	HIRU_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/15/2024 20:23	67603	WARW_T1	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
10/15/2024 20:23	23203	HIRU_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
10/15/2024 20:23	47403	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/15/2024 20:23	64701	LITI_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
10/15/2024 20:23	66502	SMAN_T2	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
10/15/2024 20:23	46004	BERW_T2	0	1	1	0	0	0	-0.26	-0.35	0	0	0	0	0	0
10/15/2024 20:23	64305	LINC_T1	0	0	0	0	0	0	-0.72	-0.67	0	0	0	0	0	0
10/15/2024 20:23	14204	EALL_T2	0	0	0	0	0	0	0.05	0.13	0	0	0	0	0	0
10/15/2024 20:23	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.37	0	0	0	0	0	0
10/15/2024 20:23	66505	SMAN_T2	3	3	0	0.73	1	0.27	-0.23	-0.26	1	1	0	900	900	0
10/15/2024 20:23	11301	EMMA_T1	0	0	0	0	0	0	-0.87	-0.89	0	0	0	0	0	0
10/15/2024 20:23	47401	PENS_T1	0	0	0	0	0	0	0.13	0.05	0	0	0	0	0	0
10/15/2024 20:23	65003	NEFF_T2	4	3	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/15/2024 20:24	11604	CEAL_T1	5	5	0	3.14	2.34	-0.8	0	0	0	0	0	0	0	0
10/15/2024 20:24	44801	EDAN_T2	212	242	30	0.61	0.65	0.04	0	0	0	0	0	0	0	0
10/15/2024 20:24	61503	EPET_T1	0	0	0	0	0	0	-0.35	-0.45	0	0	0	0	0	0
10/15/2024 20:24	67605	WARW_T1	6	8	2	0.22	0.25	0.03	-1.09	-1.15	0	0	0	0	0	0
10/15/2024 20:24	65603	QVIL_T2	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
10/15/2024 20:24	64704	LITI_T1	0	0	0	0	0	0	0.87	0.92	0	0	0	0	0	0
10/15/2024 20:24	66502	SMAN_T2	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
10/15/2024 20:24	14201	EALL_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
10/15/2024 20:24	44802	EDAN_T2	1	1	0	0	0.1	0.1	-0.88	-0.99	0	0	0	0	0	0
10/15/2024 20:24	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/15/2024 20:24	41301	FISH_T1	2	2	0	1.5	1	-0.5	-0.1	-0.1	0	0	0	0	0	0
10/15/2024 20:24	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:24	63501	HEID_TBK1-2	0	1	1	0	0.7	0.7	0.3	0.3	0	0	0	0	0	0
10/15/2024 20:24	65601	QVIL_T2	48	79	31	0.17	0.18	0.01	0	0	0	0	0	0	0	0
10/15/2024 20:24	66505	SMAN_T2	3	3	0	0.73	1	0.27	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/15/2024 20:24	23203	HIRU_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
10/15/2024 20:24	17401	FOHI_T1	0	0	0	0	0	0	-1.07	-1.06	0	0	0	0	0	0
10/15/2024 20:24	23201	HIRU_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/15/2024 20:24	48901	FOSP_T2	0	0	0	0	0	0	-0.38	-0.42	1	1	0	600	600	0
10/15/2024 20:25	65603	QVIL_T2	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
10/15/2024 20:25	48902	FOSP_T2	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
10/15/2024 20:25	41301	FISH_T1	2	2	0	1.5	1	-0.5	0	0	0	0	0	0	0	0
10/15/2024 20:25	14802	TREI_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
10/15/2024 20:25	45501	DERR_T2	0	0	0	0	0	0	0.7	0.66	2	2	0	1800	1800	0
10/15/2024 20:25	64203	KINZ_T1	2	15	13	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/15/2024 20:25	64202	KINZ_T1	7	9	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
10/15/2024 20:25	65601	QVIL_T2	48	79	31	0.17	0.18	0.01	0	0	0	0	0	0	0	0
10/15/2024 20:25	46602	LACR_T1	0	0	0	0	0	0	-1.17	-1.19	0	0	0	0	0	0
10/15/2024 20:25	11904	ETEX_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
10/15/2024 20:25	14704	TREX_T1	1	1	0	4.4	4.3	-0.1	0	0	0	0	0	0	0	0
10/15/2024 20:25	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:25	66505	SMAN_T2	3	3	0	0.73	1	0.27	0	0	0	0	0	0	0	0
10/15/2024 20:25	16302	ALPA_T2	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
10/15/2024 20:25	64204	KINZ_T1	19	28	9	0.22	0.27	0.05	0	0	0	0	0	0	0	0
10/15/2024 20:25	44801	EDAN_T2	212	242	30	0.61	0.65	0.04	0	0	0	0	0	0	0	0
10/15/2024 20:25	66504	SMAN_T2	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
10/15/2024 20:25	46004	BERW_T2	0	1	1	0	0	0	-0.26	-0.35	0	0	0	0	0	0
10/15/2024 20:25	14705	TREX_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
10/15/2024 20:25	44802	EDAN_T2	1	1	0	0	0.1	0.1	-1.76	-1.97	0	0	0	0	0	0
10/15/2024 20:25	14801	TREI_T2	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
10/15/2024 20:25	45902	AUBU_T1	0	0	0	0	0	0	0.43	0.46	2	2	0	1200	1200	0
10/15/2024 20:25	64201	KINZ_T1	7	7	0	0.33	0.51	0.18	0.42	0.42	1	1	0	300	300	0
10/15/2024 20:26	14203	EALL_T1	0	0	0	0	0	0	0.78	0.72	0	0	0	0	0	0
10/15/2024 20:26	46001	BERW_T1	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
10/15/2024 20:26	64202	KINZ_T1	7	9	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
10/15/2024 20:26	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:26	64204	KINZ_T1	19	28	9	0.22	0.27	0.05	0	0	0	0	0	0	0	0
10/15/2024 20:26	64203	KINZ_T1	2	15	13	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/15/2024 20:26	23403	HONE_T1	1	17	16	0.1	0.14	0.04	-0.79	-0.76	0	0	0	0	0	0
10/15/2024 20:26	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:26	16302	ALPA_T2	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
10/15/2024 20:26	14802	TREI_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
10/15/2024 20:26	61703	ELIZ_T1	0	0	0	0	0	0	-1.7	-1.89	1	1	0	900	900	0
10/15/2024 20:26	67402	WAKE_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
10/15/2024 20:26	23404	HONE_T1	0	11	11	0	0.1	0.1	0	0	0	0	0	0	0	0
10/15/2024 20:26	41301	FISH_T1	2	2	0	1.5	1	-0.5	-0.1	-0.1	0	0	0	0	0	0
10/15/2024 20:26	16401	MOPO_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
10/15/2024 20:26	44502	HAMI_T2	1	1	0	3.2	3.2	0	-0.91	-0.89	0	0	0	0	0	0
10/15/2024 20:26	61701	ELIZ_T1	1	1	0	4.7	4.7	0	0	0	0	0	0	0	0	0
10/15/2024 20:26	67503	WEWI_T2	1	1	0	8	8.3	0.3	0	0	0	0	0	0	0	0
10/15/2024 20:26	67502	WEWI_T2	6	0	-6	0.1	0	-0.1	-0.49	-0.5	0	0	0	0	0	0
10/15/2024 20:26	16402	MOPO_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:26	45502	DERR_T2	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
10/15/2024 20:26	64801	MONE_T2	0	0	0	0	0	0	0.26	0.3	0	0	0	0	0	0
10/15/2024 20:26	65503	MOJO_T2	0	0	0	0	0	0	-0.47	-0.51	0	0	0	0	0	0
10/15/2024 20:26	64201	KINZ_T1	7	7	0	0.33	0.51	0.18	0.42	0.42	1	1	0	300	300	0
10/15/2024 20:26	63501	HEID_TBK1-2	0	1	1	0	0.7	0.7	0.3	0.3	0	0	0	0	0	0
10/15/2024 20:27	16301	ALPA_T1	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
10/15/2024 20:27	22905	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:27	66505	SMAN_T2	3	3	0	0.73	1	0.27	-0.23	-0.26	1	1	0	900	900	0
10/15/2024 20:27	45501	DERR_T2	0	0	0	0	0	0	0.7	0.66	2	2	0	1800	1800	0
10/15/2024 20:27	46101	MACI_T2	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
10/15/2024 20:27	54603	SUMM_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/15/2024 20:27	42902	MIDD_T2	0	0	0	0	0	0	-0.36	-1.02	0	1	1	0	600	600
10/15/2024 20:27	60102	COCA_T1	0	0	0	0	0	0	-0.04	0.25	2	2	0	1200	1200	0
10/15/2024 20:27	40602	PIGR_T1	1	1	0	2.1	1.7	-0.4	0	0	0	0	0	0	0	0
10/15/2024 20:27	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:27	54501	ENOL_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
10/15/2024 20:27	67203	TEHI_T1	0	0	0	0	0	0	2.23	2.12	2	2	0	1500	1500	0
10/15/2024 20:27	16302	ALPA_T2	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
10/15/2024 20:27	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/15/2024 20:27	11901	ETEX_T2	0	0	0	0	0	0	0.32	0.35	0	0	0	0	0	0
10/15/2024 20:27	22901	HARW_T1	0	0	0	0	0	0	-0.6	-0.58	1	1	0	1200	1200	0
10/15/2024 20:27	54202	PENN_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
10/15/2024 20:27	16103	BING_T2	0	0	0	0	0	0	-1.09	-1.09	2	2	0	1500	1500	0
10/15/2024 20:27	55101	WERT_T1	0	0	0	0	0	0	-1.25	-1.22	1	1	0	600	600	0
10/15/2024 20:27	22602	KIMB_T1	0	1	1	0	0.1	0.1	0.27	0.27	0	0	0	0	0	0
10/15/2024 20:27	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/15/2024 20:27	60801	BUCK_T1	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
10/15/2024 20:27	54601	SUMM_T2	7	5	-2	0.57	0.24	-0.33	0	0	0	0	0	0	0	0
10/15/2024 20:27	67605	WARW_T1	6	8	2	0.22	0.25	0.03	-1.09	-1.15	0	0	0	0	0	0
10/15/2024 20:27	67201	TEHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/15/2024 20:27	60101	COCA_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
10/15/2024 20:27	13704	SCHN_T2	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
10/15/2024 20:27	14204	EALL_T2	0	0	0	0	0	0	0.05	0.13	0	0	0	0	0	0
10/15/2024 20:27	54602	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/15/2024 20:28	46004	BERW_T2	0	1	1	0	0	0	-0.26	-0.35	0	0	0	0	0	0
10/15/2024 20:28	66903	SHIL_T2	0	0	0	0	0	0	-1.1	-1.07	0	0	0	0	0	0
10/15/2024 20:28	66505	SMAN_T2	3	3	0	0.73	1	0.27	0	0	0	0	0	0	0	0
10/15/2024 20:28	15703	TANN_T2	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
10/15/2024 20:28	16103	BING_T2	0	0	0	0	0	0	-1.09	-1.09	2	2	0	1500	1500	0
10/15/2024 20:28	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.37	0	0	0	0	0	0
10/15/2024 20:28	50105	HARR_T3	6	6	0	5.72	5.85	0.13	0	0	0	0	0	0	0	0
10/15/2024 20:28	43802	SWIL_T1	0	0	0	0	0	0	-0.21	-0.22	1	1	0	600	600	0
10/15/2024 20:28	20201	JERM_T1	0	0	0	0	0	0	1.69	1.77	0	0	0	0	0	0
10/15/2024 20:28	22602	KIMB_T1	0	1	1	0	0.1	0.1	0.27	0.27	0	0	0	0	0	0
10/15/2024 20:28	23403	HONE_T1	1	17	16	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/15/2024 20:28	50103	HARR_T3	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/15/2024 20:28	54504	ENOL_T2	0	0	0	0	0	0	-1.19	-1.17	1	1	0	600	600	0
10/15/2024 20:28	66504	SMAN_T2	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
10/15/2024 20:28	65601	QVIL_T2	48	79	31	0.17	0.18	0.01	-1.34	-1.32	1	1	0	900	900	0
10/15/2024 20:28	40602	PIGR_T1	1	1	0	2.1	1.7	-0.4	-0.6	-0.6	1	1	0	600	600	0
10/15/2024 20:28	66502	SMAN_T2	0	0	0	0	0	0	-0.54	-0.48	0	0	0	0	0	0
10/15/2024 20:28	14802	TREI_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
10/15/2024 20:28	48901	FOSP_T2	0	0	0	0	0	0	-0.38	-0.42	1	1	0	600	600	0
10/15/2024 20:28	11904	ETEX_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
10/15/2024 20:28	43801	SWIL_T1	2	2	0	3.2	3.25	0.05	0	0	0	0	0	0	0	0
10/15/2024 20:28	23404	HONE_T1	0	11	11	0	0.1	0.1	0	0	0	0	0	0	0	0
10/15/2024 20:28	50202	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/15/2024 20:28	63601	LETO_T1	0	0	0	0	0	0	0.98	1.04	1	1	0	900	900	0
10/15/2024 20:28	50107	HARR_T3	1	1	0	8.7	8.3	-0.4	0	0	0	0	0	0	0	0
10/15/2024 20:28	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	-1.34	-1.35	1	1	0	600	600	0
10/15/2024 20:28	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
10/15/2024 20:28	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/15/2024 20:28	64801	MONE_T2	0	0	0	0	0	0	0.26	0.3	0	0	0	0	0	0
10/15/2024 20:29	55508	HERS_T2	2	2	0	1.6	1.65	0.05	-5.25	-5.3	2	2	0	2400	2400	0
10/15/2024 20:29	16302	ALPA_T2	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
10/15/2024 20:29	61701	ELIZ_T1	1	1	0	4.7	4.7	0	0	0	0	0	0	0	0	0
10/15/2024 20:29	63501	HEID_TBK1-2	0	1	1	0	0.7	0.7	0.3	0.3	0	0	0	0	0	0
10/15/2024 20:29	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:29	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:29	63804	HEMP_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
10/15/2024 20:29	67502	WEWI_T2	6	0	-6	0.1	0	-0.1	-0.49	-0.5	0	0	0	0	0	0
10/15/2024 20:29	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/15/2024 20:29	40902	JESH_T1	0	0	0	0	0	0	-0.75	-0.78	0	0	0	0	0	0
10/15/2024 20:29	64202	KINZ_T1	7	9	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
10/15/2024 20:29	63803	HEMP_T1	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
10/15/2024 20:29	66505	SMAN_T2	3	3	0	0.73	1	0.27	0	0	0	0	0	0	0	0
10/15/2024 20:29	54601	SUMM_T2	7	5	-2	0.57	0.24	-0.33	-2.2	-2.18	1	1	0	1200	1200	0
10/15/2024 20:29	66502	SMAN_T2	0	0	0	0	0	0	-0.54	-0.48	0	0	0	0	0	0
10/15/2024 20:29	39601	LNFD_T1	6	7	1	0.42	0.52	0.1	0	0	0	0	0	0	0	0
10/15/2024 20:29	60801	BUCK_T1	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
10/15/2024 20:29	54603	SUMM_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/15/2024 20:29	67503	WEWI_T2	1	1	0	8	8.3	0.3	0	0	0	0	0	0	0	0
10/15/2024 20:29	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:29	64203	KINZ_T1	2	15	13	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/15/2024 20:29	64201	KINZ_T1	7	7	0	0.33	0.51	0.18	0.42	0.42	1	1	0	300	300	0
10/15/2024 20:29	60101	COCA_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
10/15/2024 20:29	40901	JESH_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/15/2024 20:29	64204	KINZ_T1	19	28	9	0.22	0.27	0.05	0	0	0	0	0	0	0	0
10/15/2024 20:29	65302	NBRI_T2	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
10/15/2024 20:29	41205	KENM_T2	0	0	0	0	0	0	-0.76	-0.79	1	1	0	600	600	0
10/15/2024 20:29	66504	SMAN_T2	0	0	0	0	0	0	-1.25	-1.33	0	0	0	0	0	0
10/15/2024 20:29	61703	ELIZ_T1	0	0	0	0	0	0	-3.4	-3.78	2	2	0	1800	1800	0
10/15/2024 20:30	64602	LEOL_T1	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
10/15/2024 20:30	43801	SWIL_T1	2	2	0	3.2	3.25	0.05	0	0	0	0	0	0	0	0
10/15/2024 20:30	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:30	66903	SHIL_T2	0	0	0	0	0	0	-1.1	-1.07	0	0	0	0	0	0
10/15/2024 20:30	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:30	67201	TEHI_T1	0	0	0	0	0	0	-0.1	0.92	1	0	-1	900	0	-900
10/15/2024 20:30	10801	CHHI_T1	1	0	-1	0.7	0	-0.7	-1.62	-1.67	2	2	0	1500	1500	0
10/15/2024 20:30	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:30	64902	MILL_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
10/15/2024 20:30	67503	WEWI_T2	1	1	0	8	8.3	0.3	0	0	0	0	0	0	0	0
10/15/2024 20:30	66502	SMAN_T2	0	0	0	0	0	0	-0.54	-0.48	0	0	0	0	0	0
10/15/2024 20:30	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:30	67502	WEWI_T2	0	11	11	0	0.11	0.11	-0.49	-0.5	0	0	0	0	0	0
10/15/2024 20:30	11904	ETEX_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
10/15/2024 20:30	16301	ALPA_T1	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
10/15/2024 20:30	54601	SUMM_T2	1	10	9	0.4	0.77	0.37	-2.2	-2.18	1	1	0	1200	1200	0
10/15/2024 20:30	50105	HARR_T3	6	6	0	6.08	5.85	-0.23	0	0	0	0	0	0	0	0
10/15/2024 20:30	13701	SCHN_T2	0	0	0	0	0	0	-0.13	-0.13	1	1	0	600	600	0
10/15/2024 20:30	64702	LITI_T2	0	0	0	0	0	0	-0.81	-0.84	0	0	0	0	0	0
10/15/2024 20:30	66505	SMAN_T2	3	3	0	1	1.33	0.33	0	0	0	0	0	0	0	0
10/15/2024 20:30	50107	HARR_T3	1	1	0	9	8.3	-0.7	0	0	0	0	0	0	0	0
10/15/2024 20:30	65503	MOJO_T2	0	46	46	0	0.11	0.11	0	0	0	0	0	0	0	0
10/15/2024 20:30	20103	AVOC_T1	0	0	0	0	0	0	-0.3	-0.33	0	0	0	0	0	0
10/15/2024 20:30	53501	EVIL_T2	0	0	0	0	0	0	-0.79	-0.83	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/15/2024 20:30	45902	AUBU_T1	0	0	0	0	0	0	0.22	0.23	1	1	0	600	600	0
10/15/2024 20:30	65502	MOJO_T2	0	249	249	0	0.17	0.17	0	0	0	0	0	0	0	0
10/15/2024 20:30	15001	BLMO_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/15/2024 20:31	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.25	-0.23	0	0	0	0	0	0
10/15/2024 20:31	66505	SMAN_T2	3	3	0	1	1.33	0.33	0	0	0	0	0	0	0	0
10/15/2024 20:31	60103	COCA_T2	0	0	0	0	0	0	-1.61	-1.68	1	1	0	1200	1200	0
10/15/2024 20:31	14802	TREI_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
10/15/2024 20:31	54601	SUMM_T2	1	10	9	0.4	0.77	0.37	-6.6	-6.54	3	3	0	3600	3600	0
10/15/2024 20:31	53501	EVIL_T2	0	0	0	0	0	0	-1.58	-1.66	2	2	0	1200	1200	0
10/15/2024 20:31	63801	HEMP_T1	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
10/15/2024 20:31	57402	SPAN_T2	0	0	0	0	0	0	-1.26	-1.26	0	0	0	0	0	0
10/15/2024 20:31	50107	HARR_T3	1	1	0	9	8.3	-0.7	0	0	0	0	0	0	0	0
10/15/2024 20:31	66502	SMAN_T2	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
10/15/2024 20:31	65302	NBRI_T2	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
10/15/2024 20:31	42601	TUSC_T1	0	0	0	0	0	0	-0.38	-0.4	2	2	0	1800	1800	0
10/15/2024 20:31	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
10/15/2024 20:31	44802	EDAN_T2	0	1	1	0	0.2	0.2	-1.76	-1.97	0	0	0	0	0	0
10/15/2024 20:31	44505	HAMI_T2	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
10/15/2024 20:31	50105	HARR_T3	6	6	0	6.08	5.85	-0.23	0	0	0	0	0	0	0	0
10/15/2024 20:31	63601	LETO_T1	0	0	0	0	0	0	0.98	1.04	1	1	0	900	900	0
10/15/2024 20:31	66504	SMAN_T2	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
10/15/2024 20:31	63804	HEMP_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
10/15/2024 20:31	43302	WATS_T2	4	4	0	0.28	0.48	0.2	0	0	0	0	0	0	0	0
10/15/2024 20:31	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:31	46004	BERW_T2	1	0	-1	0.4	0	-0.4	-0.26	-0.35	0	0	0	0	0	0
10/15/2024 20:31	43301	WATS_T2	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
10/15/2024 20:31	44801	EDAN_T2	189	267	78	0.58	0.7	0.12	0	0	0	0	0	0	0	0
10/15/2024 20:31	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:31	57203	ROSS_T1	0	0	0	0	0	0	0.25	0.29	0	0	0	0	0	0
10/15/2024 20:32	44801	EDAN_T2	189	267	78	0.58	0.7	0.12	-1.7	-1.72	0	0	0	0	0	0
10/15/2024 20:32	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:32	60201	ATGL_T2	92	162	70	0.24	0.29	0.05	-0.23	-0.19	0	0	0	0	0	0
10/15/2024 20:32	67605	WARW_T1	3	8	5	0.3	0.25	-0.05	-1.09	-1.15	0	0	0	0	0	0
10/15/2024 20:32	48902	FOSP_T2	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
10/15/2024 20:32	51604	DUKE_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
10/15/2024 20:32	14802	TREI_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
10/15/2024 20:32	55001	NEWP_T1	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
10/15/2024 20:32	54601	SUMM_T2	1	10	9	0.4	0.77	0.37	-2.2	-2.18	1	1	0	1200	1200	0
10/15/2024 20:32	63803	HEMP_T1	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
10/15/2024 20:32	40602	PIGR_T1	1	1	0	2	1.6	-0.4	0	0	0	0	0	0	0	0
10/15/2024 20:32	67401	WAKE_T2	0	0	0	0	0	0	-1.73	-1.76	0	0	0	0	0	0
10/15/2024 20:32	55002	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/15/2024 20:32	60102	COCA_T1	0	0	0	0	0	0	-0.04	0.25	2	2	0	1200	1200	0
10/15/2024 20:32	40703	FFLD_T1	4	4	0	0.6	0.73	0.13	0	0	0	0	0	0	0	0
10/15/2024 20:32	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:32	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:32	64401	LAND_T1	0	0	0	0	0	0	-2.4	-2.46	2	2	0	1200	1200	0
10/15/2024 20:32	44802	EDAN_T2	0	1	1	0	0.2	0.2	-0.88	-0.99	0	0	0	0	0	0
10/15/2024 20:32	21206	ECAR_T2	1	1	0	7.1	7.2	0.1	1.43	1.33	0	0	0	0	0	0
10/15/2024 20:32	40702	FFLD_T1	130	156	26	0.31	0.39	0.08	-0.77	-0.8	1	1	0	1200	1200	0
10/15/2024 20:32	66505	SMAN_T2	3	3	0	1	1.33	0.33	0	0	0	0	0	0	0	0
10/15/2024 20:32	63804	HEMP_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
10/15/2024 20:32	54505	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/15/2024 20:32	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:32	40701	FFLD_T1	59	71	12	0.45	0.52	0.07	0	0	0	0	0	0	0	0
10/15/2024 20:32	54504	ENOL_T2	0	0	0	0	0	0	-1.19	-1.17	1	1	0	600	600	0
10/15/2024 20:33	43302	WATS_T2	4	4	0	0.28	0.48	0.2	0	0	0	0	0	0	0	0
10/15/2024 20:33	40902	JESH_T1	0	0	0	0	0	0	-0.75	-0.78	0	0	0	0	0	0
10/15/2024 20:33	67605	WARW_T1	3	8	5	0.3	0.25	-0.05	-1.09	-1.15	0	0	0	0	0	0
10/15/2024 20:33	13704	SCHN_T2	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
10/15/2024 20:33	61703	ELIZ_T1	0	0	0	0	0	0	-1.7	-1.89	1	1	0	900	900	0
10/15/2024 20:33	64802	MONE_T2	0	0	0	0	0	0	0.11	0.19	0	0	0	0	0	0
10/15/2024 20:33	67505	WEWI_T1	0	0	0	0	0	0	-0.18	-0.12	1	1	0	900	900	0
10/15/2024 20:33	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
10/15/2024 20:33	24202	PROV_T4	29	26	-3	0.15	0.24	0.09	0	0	1	1	0	1200	1200	0
10/15/2024 20:33	61701	ELIZ_T1	1	1	0	4.7	4.6	-0.1	0	0	0	0	0	0	0	0
10/15/2024 20:33	13701	SCHN_T2	0	0	0	0	0	0	-0.13	-0.13	1	1	0	600	600	0
10/15/2024 20:33	15703	TANN_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
10/15/2024 20:33	57106	SPHI_T2	3	3	0	1.47	1.6	0.13	0	0	0	0	0	0	0	0
10/15/2024 20:33	45802	HEGI_T2	40	48	8	0.69	1.15	0.46	0.53	0.45	0	0	0	0	0	0
10/15/2024 20:33	57104	SPHI_T2	1	3	2	1.5	2.37	0.87	-1.25	-1.27	1	1	0	900	900	0
10/15/2024 20:33	46001	BERW_T1	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
10/15/2024 20:33	40901	JESH_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
10/15/2024 20:33	67402	WAKE_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
10/15/2024 20:33	43304	WATS_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
10/15/2024 20:33	20603	GRWO_T2	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
10/15/2024 20:33	41902	REED_T1	1	0	-1	0.6	0	-0.6	0.88	0.88	0	0	0	0	0	0
10/15/2024 20:33	64704	LITI_T1	0	0	0	0	0	0	0.87	0.92	0	0	0	0	0	0
10/15/2024 20:33	57101	SPHI_T2	5	5	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
10/15/2024 20:34	43302	WATS_T2	4	4	0	0.28	0.48	0.2	0	0	0	0	0	0	0	0
10/15/2024 20:34	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:34	50107	HARR_T3	1	1	0	9	8.3	-0.7	0	0	0	0	0	0	0	0
10/15/2024 20:34	65503	MOJO_T2	0	46	46	0	0.11	0.11	0	0	0	0	0	0	0	0
10/15/2024 20:34	65604	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/15/2024 20:34	41902	REED_T1	1	0	-1	0.6	0	-0.6	0.88	0.88	0	0	0	0	0	0
10/15/2024 20:34	40901	JESH_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
10/15/2024 20:34	65502	MOJO_T2	0	249	249	0	0.17	0.17	-1	-0.98	0	0	0	0	0	0
10/15/2024 20:34	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.25	-0.23	0	0	0	0	0	0
10/15/2024 20:34	51306	WIND_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
10/15/2024 20:34	67501	WEWI_T1	0	0	0	0	0	0	-0.69	-0.73	0	0	0	0	0	0
10/15/2024 20:34	65601	QVIL_T2	71	86	15	0.17	0.21	0.04	0	0	0	0	0	0	0	0
10/15/2024 20:34	40902	JESH_T1	0	0	0	0	0	0	-0.75	-0.78	0	0	0	0	0	0
10/15/2024 20:34	20401	ASHF_T2	2	2	0	0.5	0.65	0.15	-0.36	-0.36	0	0	0	0	0	0
10/15/2024 20:34	57203	ROSS_T1	0	0	0	0	0	0	0.25	0.29	0	0	0	0	0	0
10/15/2024 20:34	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/15/2024 20:34	54206	PENN_T2	0	0	0	0	0	0	-0.19	-0.23	0	0	0	0	0	0
10/15/2024 20:34	54603	SUMM_T2	0	0	0	0	0	0	-0.56	-0.53	1	1	0	900	900	0
10/15/2024 20:34	11904	ETEX_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
10/15/2024 20:34	14802	TREI_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
10/15/2024 20:34	65603	QVIL_T2	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
10/15/2024 20:34	66505	SMAN_T2	3	3	0	1	1.33	0.33	-0.23	-0.26	1	1	0	900	900	0
10/15/2024 20:34	50105	HARR_T3	6	6	0	6.08	5.85	-0.23	0	0	0	0	0	0	0	0
10/15/2024 20:34	55508	HERS_T2	2	2	0	1.5	1.65	0.15	0	0	0	0	0	0	0	0
10/15/2024 20:34	66503	SMAN_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
10/15/2024 20:34	54601	SUMM_T2	1	10	9	0.4	0.77	0.37	-2.2	-2.18	1	1	0	1200	1200	0
10/15/2024 20:35	43801	SWIL_T1	2	2	0	3.2	3.25	0.05	0	0	0	0	0	0	0	0
10/15/2024 20:35	16301	ALPA_T1	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
10/15/2024 20:35	20403	ASHF_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
10/15/2024 20:35	54601	SUMM_T2	1	10	9	0.4	0.77	0.37	-4.4	-4.36	2	2	0	2400	2400	0
10/15/2024 20:35	63804	HEMP_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
10/15/2024 20:35	13704	SCHN_T2	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
10/15/2024 20:35	20401	ASHF_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
10/15/2024 20:35	57201	ROSS_T1	0	0	0	0	0	0	-1.06	-1.05	0	0	0	0	0	0
10/15/2024 20:35	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:35	61701	ELIZ_T1	1	1	0	4.7	4.6	-0.1	0	0	0	0	0	0	0	0
10/15/2024 20:35	67401	WAKE_T2	0	0	0	0	0	0	-0.87	-0.88	0	0	0	0	0	0
10/15/2024 20:35	11301	EMMA_T1	0	0	0	0	0	0	-0.87	-0.89	0	0	0	0	0	0
10/15/2024 20:35	66505	SMAN_T2	3	3	0	1	1.33	0.33	-0.23	-0.26	1	1	0	900	900	0
10/15/2024 20:35	43802	SWIL_T1	0	0	0	0	0	0	-0.21	-0.22	1	1	0	600	600	0
10/15/2024 20:35	54505	ENOL_T2	1	1	0	0.2	0.3	0.1	-1.34	-1.35	1	1	0	600	600	0
10/15/2024 20:35	41902	REED_T1	1	0	-1	0.6	0	-0.6	0.88	0.88	0	0	0	0	0	0
10/15/2024 20:35	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:35	58402	MORO_T1	0	0	0	0	0	0	-0.21	-0.27	2	2	0	1500	1500	0
10/15/2024 20:35	65302	NBRI_T2	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
10/15/2024 20:35	51301	WIND_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
10/15/2024 20:35	63801	HEMP_T1	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
10/15/2024 20:35	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
10/15/2024 20:35	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.25	-0.23	0	0	0	0	0	0
10/15/2024 20:35	57401	SPAN_T1	2	2	0	0.75	1	0.25	-0.34	-0.4	1	1	0	600	600	0
10/15/2024 20:36	16301	ALPA_T1	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
10/15/2024 20:36	43801	SWIL_T1	2	2	0	3.2	3.25	0.05	0	0	0	0	0	0	0	0
10/15/2024 20:36	54601	SUMM_T2	1	10	9	0.4	0.77	0.37	0	0	0	0	0	0	0	0
10/15/2024 20:36	21501	CEAV_T2	0	0	0	0	0	0	-0.36	-0.34	1	1	0	1200	1200	0
10/15/2024 20:36	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:36	55501	HERS_T1	52	52	0	0.48	0.58	0.1	0	0	0	0	0	0	0	0
10/15/2024 20:36	51604	DUKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:36	42902	MIDD_T2	0	0	0	0	0	0	-1.02	-1.03	0	0	1	0	600	600
10/15/2024 20:36	60801	BUCK_T1	0	5	5	0	0.1	0.1	-0.26	-0.28	0	0	0	0	0	0
10/15/2024 20:36	54603	SUMM_T2	0	0	0	0	0	0	-0.56	-0.53	1	1	0	900	900	0
10/15/2024 20:36	14802	TREI_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
10/15/2024 20:36	58401	MORO_T1	0	0	0	0	0	0	-1.23	-1.25	0	0	0	0	0	0
10/15/2024 20:36	43802	SWIL_T1	0	0	0	0	0	0	-0.22	-0.22	1	1	0	600	600	0
10/15/2024 20:36	60803	BUCK_T1	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/15/2024 20:36	64401	LAND_T1	0	0	0	0	0	0	-1.23	-1.23	1	1	0	600	600	0
10/15/2024 20:36	64802	MONE_T2	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
10/15/2024 20:36	55507	HERS_T1	15	19	4	0.21	0.22	0.01	0	0	0	0	0	0	0	0
10/15/2024 20:36	43302	WATS_T2	4	4	0	0.28	0.48	0.2	0	0	0	0	0	0	0	0
10/15/2024 20:36	46602	LACR_T1	0	0	0	0	0	0	-1.19	-1.13	0	0	0	0	0	0
10/15/2024 20:36	55503	HERS_T1	0	0	0	0	0	0	-1.63	-1.67	1	1	0	1200	1200	0
10/15/2024 20:37	53501	EVIL_T2	0	0	0	0	0	0	-0.83	-0.8	1	1	0	600	600	0
10/15/2024 20:37	55002	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/15/2024 20:37	42903	MIDD_T2	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
10/15/2024 20:37	42902	MIDD_T2	0	0	0	0	0	0	-1.02	-1.03	1	1	0	600	600	0
10/15/2024 20:37	64201	KINZ_T1	7	5	-2	0.51	0.26	-0.25	0	0	0	0	0	0	0	0
10/15/2024 20:37	66505	SMAN_T2	3	3	0	1	1.33	0.33	0	0	0	0	0	0	0	0
10/15/2024 20:37	63501	HEID_TBK1-2	0	28	28	0	0.23	0.23	0.6	0.62	0	0	0	0	0	0
10/15/2024 20:37	57401	SPAN_T1	2	2	0	0.75	1	0.25	0	0	0	0	0	0	0	0
10/15/2024 20:37	46602	LACR_T1	0	0	0	0	0	0	-1.19	-1.13	0	0	0	0	0	0
10/15/2024 20:37	64204	KINZ_T1	28	4	-24	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
10/15/2024 20:37	64202	KINZ_T1	9	2	-7	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
10/15/2024 20:37	55001	NEWP_T1	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
10/15/2024 20:37	43302	WATS_T2	4	4	0	0.28	0.48	0.2	0	0	0	0	0	0	0	0
10/15/2024 20:37	67401	WAKE_T2	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/15/2024 20:37	66504	SMAN_T2	0	0	0	0	0	0	-0.66	-0.6	0	0	0	0	0	0
10/15/2024 20:37	41301	FISH_T1	2	2	0	0.55	1	0.45	-0.2	-0.18	0	0	0	0	0	0
10/15/2024 20:37	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:37	54202	PENN_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
10/15/2024 20:37	58401	MORO_T1	0	0	0	0	0	0	-0.68	-0.6	0	0	0	0	0	0
10/15/2024 20:37	40901	JESH_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
10/15/2024 20:37	41305	FISH_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
10/15/2024 20:37	64203	KINZ_T1	15	0	-15	0.11	0	-0.11	0	0	0	0	0	0	0	0
10/15/2024 20:37	57403	SPAN_T1	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
10/15/2024 20:37	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:37	54601	SUMM_T2	1	10	9	0.4	0.77	0.37	-2.18	-3.18	1	2	1	1200	2100	900
10/15/2024 20:37	43304	WATS_T2	0	0	0	0	0	0	-0.62	-0.65	0	0	0	0	0	0
10/15/2024 20:37	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:38	50624	CCTY_T2	2	2	0	5.95	5.75	-0.2	0	0	0	0	0	0	0	0
10/15/2024 20:38	43801	SWIL_T1	2	2	0	3.2	3.25	0.05	0	0	0	0	0	0	0	0
10/15/2024 20:38	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:38	41902	REED_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
10/15/2024 20:38	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:38	50625	CCTY_T2	4	4	0	3.1	3.1	0	0	0	0	0	0	0	0	0
10/15/2024 20:38	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:38	43802	SWIL_T1	0	0	0	0	0	0	-0.22	-0.22	1	1	0	600	600	0
10/15/2024 20:38	42902	MIDD_T2	0	0	0	0	0	0	-1.02	-1.03	1	1	0	600	600	0
10/15/2024 20:38	50623	CCTY_T2	5	5	0	5.74	5.54	-0.2	0	0	0	0	0	0	0	0
10/15/2024 20:38	54601	SUMM_T2	1	10	9	0.4	0.77	0.37	-4.36	-6.36	2	4	2	2400	4200	1800
10/15/2024 20:38	45802	HEGI_T2	40	48	8	0.69	1.15	0.46	0.45	0.6	0	0	0	0	0	0
10/15/2024 20:38	55508	HERS_T2	2	2	0	1.5	1.65	0.15	-2.65	-2.65	1	1	0	1200	1200	0
10/15/2024 20:38	46004	BERW_T2	1	0	-1	0.4	0	-0.4	-0.35	-0.38	0	0	0	0	0	0
10/15/2024 20:39	64203	KINZ_T1	15	0	-15	0.11	0	-0.11	0.16	0.17	0	0	0	0	0	0
10/15/2024 20:39	64201	KINZ_T1	7	5	-2	0.51	0.26	-0.25	0	0	0	0	0	0	0	0
10/15/2024 20:39	46801	HEPB_T2	2	2	0	0.2	0.2	0	0.5	0.49	0	0	0	0	0	0
10/15/2024 20:39	64204	KINZ_T1	28	4	-24	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
10/15/2024 20:39	53501	EVIL_T2	0	0	0	0	0	0	-1.66	-1.6	2	2	0	1200	1200	0
10/15/2024 20:39	54601	SUMM_T2	1	10	9	0.4	0.77	0.37	-2.18	-3.18	1	2	1	1200	2100	900
10/15/2024 20:39	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:39	57401	SPAN_T1	2	2	0	0.75	1	0.25	0	0	0	0	0	0	0	0
10/15/2024 20:39	57403	SPAN_T1	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
10/15/2024 20:39	64202	KINZ_T1	9	2	-7	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
10/15/2024 20:39	65604	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/15/2024 20:39	51306	WIND_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
10/15/2024 20:39	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:39	65603	QVIL_T2	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
10/15/2024 20:39	43302	WATS_T2	4	4	0	0.28	0.48	0.2	0	0	0	0	0	0	0	0
10/15/2024 20:39	65601	QVIL_T2	71	86	15	0.17	0.21	0.04	0	0	0	0	0	0	0	0
10/15/2024 20:39	67401	WAKE_T2	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
10/15/2024 20:40	41902	REED_T1	1	0	-1	0.6	0	-0.6	0.88	0.86	0	0	0	0	0	0
10/15/2024 20:40	42902	MIDD_T2	0	0	0	0	0	0	-1.02	-1.03	1	1	0	600	600	0
10/15/2024 20:40	54602	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/15/2024 20:40	54505	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/15/2024 20:40	40801	EXCH_T2	0	0	0	0	0	0	-0.59	-0.62	1	1	0	1200	1200	0
10/15/2024 20:40	40802	EXCH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 20:40	54601	SUMM_T2	1	10	9	0.4	0.77	0.37	-4.36	-6.36	2	4	2	2400	4200	1800
10/15/2024 20:40	54504	ENOL_T2	0	0	0	0	0	0	-1.17	-1.17	1	1	0	600	600	0
10/15/2024 20:41	41902	REED_T1	1	0	-1	0.6	0	-0.6	0.88	0.86	0	0	0	0	0	0
10/15/2024 20:41	58401	MORO_T1	0	0	0	0	0	0	-0.68	-0.6	0	0	0	0	0	0
10/15/2024 20:41	57205	ROSS_T1	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
10/15/2024 20:43	54206	PENN_T2	0	0	0	0	0	0	-0.11	-0.14	0	0	0	0	0	0
10/15/2024 21:07	60101	CDCA_T1	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
10/15/2024 21:19	43302	WATS_T2	4	4	0	0.07	0.63	0.08	0	0	0	0	0	0	0	0
10/15/2024 21:19	43301	WATS_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
10/15/2024 21:20	44801	EDAN_T2	231	279	48	0.63	0.77	0.14	0	0	0	0	0	0	0	0
10/15/2024 21:20	44802	EDAN_T2	1	5	4	0.1	0.14	0.04	-0.99	-0.98	0	0	0	0	0	0
10/15/2024 21:28	65302	NIBR_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
10/15/2024 21:40	51302	WIND_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
10/15/2024 21:49	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/15/2024 21:49	50107	HARR_T3	1	1	0	8.2	8.4	0.2	0	0	0	0	0	0	0	0
10/15/2024 21:49	50105	HARR_T3	6	6	0	5.72	6.17	0.45	0	0	0	0	0	0	0	0
10/15/2024 21:49	50202	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/15/2024 21:57	67106	SPRI_T2	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
10/15/2024 21:58	67103	SPRI_T1	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
10/15/2024 21:59	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 22:17	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/15/2024 22:32	28403	HART_T2	0	0	0	0	0	0	-1.05	-1.08	1	1	0	900	900	0
10/15/2024 22:41	54505	ENOL_T2	1	1	0	0.3	0.2	-0.1	-1.37	-1.35	1	1	0	600	600	0
10/15/2024 22:41	54502	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/15/2024 23:38	63501	HEID_TBK1-2	1	1	0	1.1	1.2	0.1	0.44	0.44	0	0	0	0	0	0
10/16/2024 2:43	54502	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/16/2024 2:43	54503	ENOL_T2	0	0	0	0	0	0	-1.19	-1.18	1	1	0	600	600	0
10/16/2024 7:53	15201	SFAR_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
10/16/2024 7:55	15202	SFAR_T1	0	0	0	0	0	0	-0.8	-0.77	1	1	0	1200	1200	0
10/16/2024 7:56	15202	SFAR_T1	0	0	0	0	0	0	-0.8	-0.77	1	1	0	1200	1200	0
10/16/2024 7:57	20401	ASHF_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
10/16/2024 7:57	20403	ASHF_T2	0	0	0	0	0	0	1.35	1.75	0	0	0	0	0	0
10/16/2024 7:58	15201	SFAR_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
10/16/2024 8:07	55002	NEWP_T1	6	6	0	0.35	0.75	0.4	-0.22	-0.18	0	0	0	0	0	0
10/16/2024 8:08	51204	MTON_T2	0	0	0	0	0	0	-0.46	-0.46	1	1	0	600	600	0
10/16/2024 8:13	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 8:13	45501	DERR_T2	1	1	0	0.4	0.1	-0.3	0.98	1.1	2	2	0	1800	1800	0
10/16/2024 8:16	11202	ELHE_T2	0	0	0	0	0	0	0.36	0.37	1	1	0	1200	1200	0
10/16/2024 8:25	43301	WATS_T2	0	0	0	0	0	0	-0.82	-0.84	1	1	0	900	900	0
10/16/2024 8:30	21501	CEAV_T2	0	0	0	0	0	0	-0.31	-0.24	1	1	0	1200	1200	0
10/16/2024 8:31	45501	DERR_T2	0	0	0	0	0	0	1.1	0.7	2	2	0	1800	1800	0
10/16/2024 8:37	13303	ORVI_T1	0	0	0	0	0	0	-0.42	-0.45	0	0	0	0	0	0
10/16/2024 8:45	44301	BEAV_T2	1	0	-1	0.4	0	-0.4	0.31	0.31	1	1	0	600	600	0
10/16/2024 8:49	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.76	1	1	0	900	900	0
10/16/2024 8:51	64902	MILL_T2	0	0	0	0	0	0	-0.76	0.21	1	1	0	900	900	0
10/16/2024 8:56	60201	ATGL_T2	0	23	23	0	0.16	0.16	0.03	-0.06	0	0	0	0	0	0
10/16/2024 9:02	61801	EELI_T2	0	0	0	0	0	0	-0.96	-0.94	1	1	0	600	600	0
10/16/2024 9:03	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/16/2024 9:08	55101	WERT_T1	0	0	0	0	0	0	-1.39	-0.92	1	1	0	600	600	0
10/16/2024 9:09	57201	ROSS_T1	13	9	-4	0.2	0.13	-0.07	-0.81	-0.85	0	0	0	0	0	0
10/16/2024 9:10	57201	ROSS_T1	13	9	-4	0.2	0.13	-0.07	-0.81	-0.85	0	0	0	0	0	0
10/16/2024 9:12	45902	AUBU_T1	0	0	0	0	0	0	0.71	0.67	1	1	0	600	600	0
10/16/2024 9:12	52502	PROG_T2	0	0	0	0	0	0	-0.66	-0.65	1	1	0	900	900	0
10/16/2024 9:13	60801	BUCK_T1	2	23	21	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/16/2024 9:13	60803	BUCK_T1	8	15	7	0.14	0.19	0.05	0	0	0	0	0	0	0	0
10/16/2024 9:16	10701	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 9:16	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 9:16	10705	CATA_T2	0	0	0	0	0	0	-0.97	-1	1	1	0	900	900	0
10/16/2024 9:18	11801	FRAN_T2	0	0	0	0	0	0	0.1	-0.12	0	0	0	0	0	0
10/16/2024 9:22	44201	POIN_T1	69	0	-69	0.18	0	-0.18	-1.31	-1.47	2	2	0	2100	2100	0
10/16/2024 9:22	55002	NEWP_T1	6	4	-2	0.92	0.48	-0.44	-0.22	-0.21	0	0	0	0	0	0
10/16/2024 9:22	55001	NEWP_T1	1	1	0	0.8	0.8	0	-0.36	-0.38	0	0	0	0	0	0
10/16/2024 9:23	54201	PENN_T1	14	10	-4	0.61	0.77	0.16	0	0	0	0	0	0	0	0
10/16/2024 9:23	54203	PENN_T1	23	19	-4	1.07	1.12	0.05	0.22	0.15	0	0	0	0	0	0
10/16/2024 9:23	54205	PENN_T1	8	0	-8	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 9:23	44201	POIN_T1	69	0	-69	0.18	0	-0.18	-1.31	-1.47	2	2	0	2100	2100	0
10/16/2024 9:24	54205	PENN_T1	8	0	-8	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 9:24	54201	PENN_T1	14	10	-4	0.61	0.77	0.16	0	0	0	0	0	0	0	0
10/16/2024 9:24	54203	PENN_T1	23	19	-4	1.07	1.12	0.05	0	0	0	0	0	0	0	0
10/16/2024 9:24	44201	POIN_T1	69	0	-69	0.18	0	-0.18	-2.62	-2.94	4	4	0	4200	4200	0
10/16/2024 9:25	54205	PENN_T1	8	0	-8	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 9:25	57203	ROSS_T1	0	0	0	0	0	0	0.28	0.31	0	0	0	0	0	0
10/16/2024 9:25	54201	PENN_T1	14	10	-4	0.61	0.77	0.16	0	0	0	0	0	0	0	0
10/16/2024 9:25	54203	PENN_T1	23	19	-4	1.07	1.12	0.05	0.22	0.15	0	0	0	0	0	0
10/16/2024 9:25	57201	ROSS_T1	9	6	-3	0.12	0.12	0	0	0	0	0	0	0	0	0
10/16/2024 9:26	44201	POIN_T1	69	0	-69	0.18	0	-0.18	-1.31	-1.47	2	2	0	2100	2100	0
10/16/2024 9:27	14201	EALL_T1	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
10/16/2024 9:35	53501	EVIL_T2	0	1	1	0	0.3	0.3	0.43	0.69	1	1	0	600	600	0
10/16/2024 9:44	45502	DERR_T2	3	2	-1	0.93	0	-0.93	0.5	0.16	0	1	1	0	300	300
10/16/2024 9:49	65502	MOJO_T2	0	0	0	0	0	0	-0.12	-0.49	0	0	0	0	0	0
10/16/2024 9:49	65503	MOJO_T2	3	2	-1	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
10/16/2024 9:50	64903	MILL_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
10/16/2024 9:50	65503	MOJO_T2	3	2	-1	0.43	0.4	-0.03	-1	-1.05	1	1	0	900	900	0
10/16/2024 9:50	63803	HEMP_T1	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/16/2024 9:50	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0.88	0.86	0	0	0	0	0	0
10/16/2024 9:50	63802	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 9:51	65503	MOJO_T2	3	2	-1	0.43	0.4	-0.03	-1.05	-0.1	1	1	0	900	900	0
10/16/2024 9:53	65503	MOJO_T2	3	2	-1	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
10/16/2024 9:53	65502	MOJO_T2	0	0	0	0	0	0	-0.49	-0.02	0	0	0	0	0	0
10/16/2024 9:55	67201	TEHI_T1	0	0	0	0	0	0	0.64	1.15	1	1	0	900	900	0
10/16/2024 9:56	67503	WEWI_T2	1	1	0	9.2	9.3	0.1	-0.27	-0.25	0	0	0	0	0	0
10/16/2024 9:56	67502	WEWI_T2	11	20	9	0.24	0.26	0.02	0	0	0	0	0	0	0	0
10/16/2024 9:57	67503	WEWI_T2	1	1	0	9.2	9.3	0.1	0	0	0	0	0	0	0	0
10/16/2024 9:57	67502	WEWI_T2	11	20	9	0.24	0.26	0.02	-0.16	-0.09	0	0	0	0	0	0
10/16/2024 9:58	67502	WEWI_T2	11	20	9	0.24	0.26	0.02	0	0	0	0	0	0	0	0
10/16/2024 9:58	67503	WEWI_T2	1	1	0	9.2	9.3	0.1	-0.27	-0.25	0	0	0	0	0	0
10/16/2024 9:59	67503	WEWI_T2	1	1	0	9.2	9.3	0.1	-0.27	-0.25	0	0	0	0	0	0
10/16/2024 9:59	51603	DUKE_T1	2	1	-1	0.15	0.1	-0.05	83.96	83.96	0	0	0	0	0	0
10/16/2024 9:59	67502	WEWI_T2	11	20	9	0.24	0.26	0.02	0	0	0	0	0	0	0	0
10/16/2024 10:00	54503	ENOL_T2	0	0	0	0	0	0	-0.44	-0.46	1	1	0	600	600	0
10/16/2024 10:00	64903	MILL_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
10/16/2024 10:00	54502	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
10/16/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.45	0.41	0	0	0	0	0	0
10/16/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	-0.42	-0.38	0	0	0	0	0	0
10/16/2024 10:00	67502	WEWI_T2	20	10	-10	0.25	0.35	0.1	0	0	0	0	0	0	0	0
10/16/2024 10:00	67503	WEWI_T2	1	1	0	9.3	9.1	-0.2	-0.27	-0.25	0	0	0	0	0	0
10/16/2024 10:00	61001	DONV_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/16/2024 10:00	54505	ENOL_T2	2	2	0	0.35	0.75	0.4	0	0	0	0	0	0	0	0
10/16/2024 10:01	60801	BUCK_T1	15	4	-11	0.23	0.23	0	-0.05	-0.04	0	0	0	0	0	0
10/16/2024 10:01	60803	BUCK_T1	15	11	-4	0.21	0.24	0.03	0	0	0	0	0	0	0	0
10/16/2024 10:07	65603	QVIL_T2	0	0	0	0	0	0	0.65	0.45	0	0	0	0	0	0
10/16/2024 10:07	65601	QVIL_T2	51	7	-44	0.15	0.23	0.08	0	0	0	0	0	0	0	0
10/16/2024 10:07	65602	QVIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/16/2024 10:08	57205	ROSS_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
10/16/2024 10:08	64902	MILL_T2	0	0	0	0	0	0	0.22	-0.41	0	0	0	0	0	0
10/16/2024 10:08	57201	ROSS_T1	6	4	-2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/16/2024 10:08	65603	QVIL_T2	0	0	0	0	0	0	0.65	0.45	0	0	0	0	0	0
10/16/2024 10:08	65602	QVIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/16/2024 10:08	57203	ROSS_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
10/16/2024 10:08	65601	QVIL_T2	51	7	-44	0.15	0.23	0.08	0	0	0	0	0	0	0	0
10/16/2024 10:09	65503	MOJO_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/16/2024 10:09	65502	MOJO_T2	0	0	0	0	0	0	-0.02	-0.08	0	0	0	0	0	0
10/16/2024 10:10	65603	QVIL_T2	0	0	0	0	0	0	0.65	0.45	0	0	0	0	0	0
10/16/2024 10:10	65502	MOJO_T2	0	0	0	0	0	0	-0.02	-0.08	0	0	0	0	0	0
10/16/2024 10:10	65601	QVIL_T2	51	7	-44	0.15	0.23	0.08	0	0	0	0	0	0	0	0
10/16/2024 10:10	65602	QVIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/16/2024 10:10	65503	MOJO_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/16/2024 10:11	57403	SPAN_T1	78	104	26	0.34	0.28	-0.06	0.04	0.03	0	0	0	0	0	0
10/16/2024 10:11	57401	SPAN_T1	2	2	0	1.05	1.2	0.15	0	0	0	0	0	0	0	0
10/16/2024 10:12	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 10:12	67605	WARW_T1	37	44	7	0.46	0.56	0.1	-1.04	-0.99	0	0	0	0	0	0
10/16/2024 10:13	67605	WARW_T1	37	44	7	0.46	0.56	0.1	0	0	0	0	0	0	0	0
10/16/2024 10:13	57403	SPAN_T1	78	104	26	0.34	0.28	-0.06	0.04	0.03	0	0	0	0	0	0
10/16/2024 10:13	67603	WARW_T1	0	1	1	0	0.1	0.1	0.01	0.04	0	0	0	0	0	0
10/16/2024 10:13	57401	SPAN_T1	2	2	0	1.05	1.2	0.15	0	0	0	0	0	0	0	0
10/16/2024 10:14	45501	DERR_T2	0	1	1	0	0	0	0.89	0.85	2	2	0	1800	1800	0
10/16/2024 10:14	13704	SCHN_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
10/16/2024 10:14	10801	CHHI_T1	0	0	0	0	0	0	-1.47	-1.5	2	2	0	1500	1500	0
10/16/2024 10:14	62605	ENGL_T1	5	1	-4	0.26	0.3	0.04	-0.88	-0.87	0	0	0	0	0	0
10/16/2024 10:14	62607	ENGL_T1	2	1	-1	0.4	0.4	0	-1.68	-1.7	0	0	0	0	0	0
10/16/2024 10:14	62606	ENGL_T1	7	0	-7	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 10:14	62602	ENGL_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
10/16/2024 10:14	45502	DERR_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/16/2024 10:14	13701	SCHN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
10/16/2024 10:15	62607	ENGL_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
10/16/2024 10:15	67603	WARW_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/16/2024 10:15	62605	ENGL_T1	1	1	0	0.3	0.1	-0.2	-0.88	-0.87	0	0	0	0	0	0
10/16/2024 10:15	67605	WARW_T1	41	44	3	0.54	0.61	0.07	0	0	0	0	0	0	0	0
10/16/2024 10:15	11203	ELHE_T1	0	0	0	0	0	0	0.92	0.96	0	0	0	0	0	0
10/16/2024 10:16	67603	WARW_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/16/2024 10:16	45502	DERR_T2	0	5	5	0	0	0	0.22	0.23	1	1	0	300	300	0
10/16/2024 10:16	62605	ENGL_T1	1	1	0	0.3	0.1	-0.2	-1.76	-1.74	0	0	0	0	0	0
10/16/2024 10:16	67605	WARW_T1	41	44	3	0.54	0.61	0.07	-1.04	-0.99	0	0	0	0	0	0
10/16/2024 10:16	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.89	0.85	2	2	0	1800	1800	0
10/16/2024 10:16	62607	ENGL_T1	1	1	0	0.4	0.1	-0.3	-0.84	-0.85	0	0	0	0	0	0
10/16/2024 10:17	22903	HARW_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 10:17	22901	HARW_T1	0	0	0	0	0	0	-0.39	-0.3	1	1	0	1200	1200	0
10/16/2024 10:17	63501	HEID_TBK1-2	4	5	1	0.58	0.3	-0.28	0.13	0.17	1	1	0	900	900	0
10/16/2024 10:18	64305	LINC_T1	1	1	0	0.2	0.2	0	-0.16	-0.17	0	0	0	0	0	0
10/16/2024 10:18	64303	LINC_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 10:19	62605	ENGL_T1	1	1	0	0.3	0.1	-0.2	-0.88	-0.87	0	0	0	0	0	0
10/16/2024 10:19	62607	ENGL_T1	1	1	0	0.4	0.1	-0.3	-1.68	-1.7	0	0	0	0	0	0
10/16/2024 10:19	62601	ENGL_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
10/16/2024 10:19	62606	ENGL_T1	0	0	0	0	0	0	-1.75	-1.99	2	2	0	1800	1800	0
10/16/2024 10:20	63501	HEID_TBK1-2	4	5	1	0.58	0.3	-0.28	0.13	0.17	1	1	0	900	900	0
10/16/2024 10:21	60604	NCOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 10:22	64303	LINC_T1	0	1	1	0	0.1	0.1	-0.22	-0.23	0	0	0	0	0	0
10/16/2024 10:22	64305	LINC_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/16/2024 10:22	65501	MOJO_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	900	900	0
10/16/2024 10:23	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 10:23	65503	MOJO_T2	0	0	0	0	0	0	-0.05	0.01	0	0	0	0	0	0
10/16/2024 10:23	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 10:24	67103	SPRI_T1	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
10/16/2024 10:25	47403	PENS_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
10/16/2024 10:25	47401	PENS_T1	0	3	3	0	0.4	0.4	0.22	0.22	0	0	0	0	0	0
10/16/2024 10:25	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 10:27	60201	ATGL_T2	13	19	6	0.16	0.17	0.01	-0.01	-0.03	0	0	0	0	0	0
10/16/2024 10:27	15202	SFAR_T1	0	0	0	0	0	0	-0.69	-0.7	1	1	0	1200	1200	0
10/16/2024 10:30	67804	WLAN_T1	3	5	2	0.17	0.24	0.07	0	0	0	0	0	0	0	0
10/16/2024 10:30	20403	ASHF_T2	0	1	1	0	0.2	0.2	1.36	1.44	0	0	0	0	0	0
10/16/2024 10:30	44801	EDAN_T2	203	213	10	0.65	0.67	0.02	0	0	0	0	0	0	0	0
10/16/2024 10:30	44802	EDAN_T2	0	2	2	0	0.2	0.2	-1.7	-1.68	0	0	0	0	0	0
10/16/2024 10:30	64602	LEOL_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
10/16/2024 10:30	20401	ASHF_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
10/16/2024 10:30	67803	WLAN_T1	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
10/16/2024 10:30	67805	WLAN_T1	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
10/16/2024 10:31	44802	EDAN_T2	0	2	2	0	0.2	0.2	-0.85	-0.84	0	0	0	0	0	0
10/16/2024 10:31	20401	ASHF_T2	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/16/2024 10:31	46004	BERW_T2	1	2	1	0.4	0.1	-0.3	-0.15	-0.2	0	0	0	0	0	0
10/16/2024 10:31	20403	ASHF_T2	3	3	0	0.37	0.17	-0.2	1.36	1.44	0	0	0	0	0	0
10/16/2024 10:31	44801	EDAN_T2	203	213	10	0.65	0.67	0.02	-1.63	-1.6	0	0	0	0	0	0
10/16/2024 10:31	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
10/16/2024 10:32	40802	EXCH_T2	0	0	0	0	0	0	-1.04	-0.95	0	0	0	0	0	0
10/16/2024 10:33	44802	EDAN_T2	0	2	2	0	0.2	0.2	-1.7	-1.68	0	0	0	0	0	0
10/16/2024 10:33	44801	EDAN_T2	203	213	10	0.65	0.67	0.02	0	0	0	0	0	0	0	0
10/16/2024 10:33	46803	HEPB_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/16/2024 10:33	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 10:33	46801	HEPB_T2	2	2	0	0.85	1.05	0.2	0.52	0.53	0	0	0	0	0	0
10/16/2024 10:34	44802	EDAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 10:34	44801	EDAN_T2	203	213	10	0.65	0.67	0.02	-1.63	-1.6	0	0	0	0	0	0
10/16/2024 10:34	40802	EXCH_T2	0	0	0	0	0	0	-0.52	-0.48	0	0	0	0	0	0
10/16/2024 10:35	44801	EDAN_T2	203	213	10	0.65	0.67	0.02	0	0	0	0	0	0	0	0
10/16/2024 10:35	44802	EDAN_T2	0	2	2	0	0.2	0.2	-0.85	-0.84	0	0	0	0	0	0
10/16/2024 10:37	65602	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 10:37	65503	MOJO_T2	0	1	1	0	0.1	0.1	0.01	-0.99	0	1	1	0	900	900
10/16/2024 10:37	40801	EXCH_T2	0	0	0	0	0	0	-0.56	-0.55	1	1	0	1200	1200	0
10/16/2024 10:37	65601	QVIL_T2	4	5	1	0.33	0.42	0.09	0	0	0	0	0	0	0	0
10/16/2024 10:38	67201	TEHI_T1	0	0	0	0	0	0	0.92	0.93	1	1	0	900	900	0
10/16/2024 10:38	65602	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 10:38	65601	QVIL_T2	4	5	1	0.33	0.42	0.09	-1.2	-1.17	1	1	0	900	900	0
10/16/2024 10:41	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 10:42	66502	SMAN_T2	1	6	5	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
10/16/2024 10:42	43301	WATS_T2	0	0	0	0	0	0	-0.83	-0.83	1	1	0	900	900	0
10/16/2024 10:42	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 10:44	43304	WATS_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
10/16/2024 10:44	67402	WAKE_T2	0	0	0	0	0	0	0.3	0.19	1	1	0	600	600	0
10/16/2024 10:44	67401	WAKE_T2	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
10/16/2024 10:45	57201	ROSS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/16/2024 10:45	60801	BUCK_T1	5	5	0	0.26	0.26	0	-0.05	-0.05	0	0	0	0	0	0
10/16/2024 10:45	60803	BUCK_T1	4	4	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/16/2024 10:45	57203	ROSS_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
10/16/2024 10:45	57205	ROSS_T1	2	4	2	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
10/16/2024 10:46	44301	BEAV_T2	1	2	1	0	0.15	0.15	0.5	0.4	1	1	0	600	600	0
10/16/2024 10:46	43304	WATS_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
10/16/2024 10:46	44302	BEAV_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/16/2024 10:47	57205	ROSS_T1	2	4	2	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
10/16/2024 10:47	57203	ROSS_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
10/16/2024 10:47	57201	ROSS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/16/2024 10:48	60803	BUCK_T1	4	4	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/16/2024 10:48	60801	BUCK_T1	5	5	0	0.26	0.26	0	-0.05	-0.05	0	0	0	0	0	0
10/16/2024 10:49	24202	PROV_T4	0	1	1	0	0	0	0	0	1	1	0	1200	1200	0
10/16/2024 10:50	45802	HEID_T2	1	24	23	0.2	0.56	0.36	1.04	1.17	2	2	0	1800	1800	0
10/16/2024 10:51	24201	PROV_T3	1	1	0	6.7	6.5	-0.2	0	0	1	1	0	1200	1200	0
10/16/2024 10:51	24204	PROV_T3	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 10:54	55002	NEWP_T1	3	6	3	0.37	0.52	0.15	0	0	0	0	0	0	0	0
10/16/2024 10:54	55001	NEWP_T1	1	2	1	0.1	0.2	0.1	-0.26	-0.34	0	0	0	0	0	0
10/16/2024 10:54	41902	REED_T1	0	0	0	0	0	0	0	0.95	0	0	0	0	0	0
10/16/2024 10:55	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 10:55	41902	REED_T1	0	0	0	0	0	0	0	0.95	0	0	0	0	0	0
10/16/2024 10:55	59101	WALK_T2	1	1	0	2.6	3.1	0.5	2.27	1.97	0	0	0	0	0	0
10/16/2024 10:56	60201	ATGL_T2	15	21	6	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
10/16/2024 10:56	41902	REED_T1	0	0	0	0	0	0	0	0.95	0	0	0	0	0	0
10/16/2024 10:57	67402	WAKE_T2	0	1	1	0	0.1	0.1	0.19	0.18	1	0	-1	600	0	-600
10/16/2024 10:57	41902	REED_T1	0	0	0	0	0	0	0	0.95	0	0	0	0	0	0
10/16/2024 10:57	67401	WAKE_T2	1	5	4	0.2	0.38	0.18	0	0	0	0	0	0	0	0
10/16/2024 10:58	59101	WALK_T2	1	1	0	2.6	3.1	0.5	4.54	3.94	0	0	0	0	0	0
10/16/2024 10:58	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 10:58	60201	ATGL_T2	15	21	6	0.18	0.17	-0.01	-0.09	-0.12	0	0	0	0	0	0
10/16/2024 11:03	44502	HAMI_T2	1	2	1	3.4	1.9	-1.5	0.93	0.82	0	0	0	0	0	0
10/16/2024 11:06	60201	ATGL_T2	15	21	6	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
10/16/2024 11:10	64801	MONE_T2	2	3	1	0.2	0.47	0.27	0	0	0	0	0	0	0	0
10/16/2024 11:10	64802	MONE_T2	7	15	8	0.34	0.34	0	0.31	0.32	0	0	0	0	0	0
10/16/2024 11:12	54601	SUMM_T2	4	5	1	0.55	0.38	-0.17	-1.83	-1.84	2	2	0	2100	2100	0
10/16/2024 11:12	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 11:12	43801	SWIL_T1	4	6	2	1.38	1.05	-0.33	0	0	0	0	0	0	0	0
10/16/2024 11:13	43801	SWIL_T1	4	6	2	1.38	1.05	-0.33	0	0	0	0	0	0	0	0
10/16/2024 11:13	43802	SWIL_T1	0	0	0	0	0	0	-0.22	-0.24	1	1	0	600	600	0
10/16/2024 11:20	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
10/16/2024 11:20	67605	WARW_T1	42	22	-20	0.63	0.58	-0.05	-1.02	-1.07	0	0	0	0	0	0
10/16/2024 11:20	15703	TANN_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
10/16/2024 11:20	67603	WARW_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
10/16/2024 11:21	61502	EPET_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/16/2024 11:21	61505	EPET_T1	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
10/16/2024 11:22	15703	TANN_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
10/16/2024 11:22	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
10/16/2024 11:23	52001	LING_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
10/16/2024 11:25	15703	TANN_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
10/16/2024 11:25	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
10/16/2024 11:26	65601	QVIL_T2	6	44	38	0.32	0.19	-0.13	0	0	0	0	0	0	0	0
10/16/2024 11:26	65602	QVIL_T2	0	1	1	0	0.1	0.1	0.44	0.42	0	0	0	0	0	0
10/16/2024 11:28	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 11:32	63801	HEMP_T1	1	0	-1	0.2	0	-0.2	0.32	0.54	0	0	0	0	0	0
10/16/2024 11:32	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
10/16/2024 11:32	54506	ENOL_T2	0	0	0	0	0	0	0.35	0.35	1	1	0	600	600	0
10/16/2024 11:32	54504	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/16/2024 11:32	63501	HEID_TBK1-2	5	20	15	0.52	0.24	-0.28	0.19	0.03	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/16/2024 11:32	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
10/16/2024 11:32	54502	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
10/16/2024 11:32	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 11:32	63803	HEMP_T1	2	2	0	0.15	0.25	0.1	0.3	0.41	0	0	0	0	0	0
10/16/2024 11:33	63801	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/16/2024 11:33	63804	HEMP_T1	1	1	0	5.5	5.5	0	0.93	0.92	0	0	0	0	0	0
10/16/2024 11:33	63803	HEMP_T1	2	2	0	0.15	0.25	0.1	0.1	0.14	0	0	0	0	0	0
10/16/2024 11:34	46801	HEPB_T2	2	5	3	1.2	0.58	-0.62	0	0	0	0	0	0	0	0
10/16/2024 11:34	46803	HEPB_T2	2	4	2	0.6	0.45	-0.15	0.49	0.51	0	0	0	0	0	0
10/16/2024 11:35	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
10/16/2024 11:35	63801	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/16/2024 11:35	63803	HEMP_T1	2	2	0	0.15	0.25	0.1	0.1	0.14	0	0	0	0	0	0
10/16/2024 11:35	63501	HEID_TBK1-2	5	20	15	0.52	0.24	-0.28	0.1	0.01	1	1	0	900	900	0
10/16/2024 11:36	64704	LITI_T1	0	1	1	0	0.1	0.1	0.3	0.42	1	1	0	600	600	0
10/16/2024 11:36	45802	HEGI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 11:37	40603	PIGR_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
10/16/2024 11:37	64704	LITI_T1	0	1	1	0	0.1	0.1	0.3	0.42	1	1	0	600	600	0
10/16/2024 11:37	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 11:37	27605	PIRI_T2	0	0	0	0	0	0	-0.5	-0.42	1	1	0	900	900	0
10/16/2024 11:37	40602	PIGR_T1	2	2	0	1.25	1	-0.25	0	0	0	0	0	0	0	0
10/16/2024 11:37	40601	PIGR_T1	15	7	-8	0.29	0.17	-0.12	0	0	0	0	0	0	0	0
10/16/2024 11:38	59301	MCAL_T1	0	4	4	0	0.7	0.7	-1.85	-1.83	1	1	0	600	600	0
10/16/2024 11:38	59302	MCAL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 11:38	58401	MORO_T1	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
10/16/2024 11:39	65503	MOJO_T2	0	5	5	0	0.24	0.24	0	0	0	0	0	0	0	0
10/16/2024 11:39	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 11:39	58401	MORO_T1	0	0	0	0	0	0	-0.92	-0.98	0	0	0	0	0	0
10/16/2024 11:40	58401	MORO_T1	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
10/16/2024 11:42	57201	ROSS_T1	14	8	-6	0.15	0.14	-0.01	-0.8	-0.61	0	0	0	0	0	0
10/16/2024 11:42	63801	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/16/2024 11:42	57205	ROSS_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
10/16/2024 11:42	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
10/16/2024 11:42	63803	HEMP_T1	2	2	0	0.15	0.25	0.1	0.14	0.11	0	0	0	0	0	0
10/16/2024 11:42	57203	ROSS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/16/2024 11:43	10705	CATA_T2	0	0	0	0	0	0	-0.95	-0.98	1	1	0	900	900	0
10/16/2024 11:43	21204	ECAR_T2	1	1	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
10/16/2024 11:43	16101	BING_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
10/16/2024 11:43	16102	BING_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/16/2024 11:43	21206	ECAR_T2	2	1	-1	3.2	6.7	3.5	0	0	0	0	0	0	0	0
10/16/2024 11:44	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 11:44	54601	SUMM_T2	5	4	-1	0.38	0.6	0.22	-1.8	-1.81	2	2	0	2100	2100	0
10/16/2024 11:44	10705	CATA_T2	0	0	0	0	0	0	-0.95	-0.98	1	1	0	900	900	0
10/16/2024 11:44	16302	ALPA_T2	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
10/16/2024 11:44	21206	ECAR_T2	2	1	-1	3.2	6.7	3.5	1.61	1.59	0	0	0	0	0	0
10/16/2024 11:45	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 11:45	16101	BING_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
10/16/2024 11:46	10701	CATA_T2	1	0	-1	3.6	0	-3.6	-0.47	-0.48	1	1	0	1200	1200	0
10/16/2024 11:46	13101	NHAM_T1	0	0	0	0	0	0	-2.69	-2.68	2	2	0	2400	2400	0
10/16/2024 11:46	10705	CATA_T2	0	1	1	0	0.5	0.5	-0.95	-0.98	1	1	0	900	900	0
10/16/2024 11:47	57203	ROSS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/16/2024 11:47	45902	AUBU_T1	0	1	1	0	0.4	0.4	0.71	0.71	1	1	0	600	600	0
10/16/2024 11:47	57201	ROSS_T1	8	0	-8	0.14	0	-0.14	-0.8	-0.61	0	0	0	0	0	0
10/16/2024 11:47	40702	FFLD_T1	3	8	5	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
10/16/2024 11:47	57205	ROSS_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
10/16/2024 11:47	10701	CATA_T2	1	0	-1	3.6	0	-3.6	0	0	0	0	0	0	0	0
10/16/2024 11:47	10702	CATA_T2	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
10/16/2024 11:47	40703	FFLD_T1	4	4	0	0.25	0.28	0.03	0	0	0	0	0	0	0	0
10/16/2024 11:47	10705	CATA_T2	0	1	1	0	0.5	0.5	-0.95	-0.98	1	1	0	900	900

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/16/2024 12:19	45702	LIND_T2	33	3	-30	0.28	0.7	0.42	-0.57	-0.56	0	0	0	0	0	0
10/16/2024 12:19	45701	LIND_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
10/16/2024 12:19	63501	HEID_TBK1-2	2	3	1	0.45	0.23	-0.22	0.15	0.08	1	1	0	900	900	0
10/16/2024 12:19	10705	CATA_T2	1	1	0	0.5	0.2	-0.3	-0.92	-0.9	1	1	0	900	900	0
10/16/2024 12:21	63501	HEID_TBK1-2	2	3	1	0.45	0.23	-0.22	0.08	0.12	1	1	0	900	900	0
10/16/2024 12:22	13302	ORVI_T2	3	3	0	0.4	0.7	0.3	-0.05	-0.06	0	0	0	0	0	0
10/16/2024 12:22	45701	LIND_T2	1	1	0	0.6	0	-0.6	-1.67	-1.69	0	0	0	0	0	0
10/16/2024 12:22	45702	LIND_T2	33	3	-30	0.28	0.7	0.42	0	0	0	0	0	0	0	0
10/16/2024 12:23	58402	MORO_T1	0	0	0	0	0	0	-0.26	-0.27	2	2	0	1500	1500	0
10/16/2024 12:23	63602	LETO_T1	4	1	-3	0.33	0.4	0.07	0	0	0	0	0	0	0	0
10/16/2024 12:23	63601	LETO_T1	3	6	3	0.63	0.42	-0.21	0.8	0.88	1	1	0	900	900	0
10/16/2024 12:24	54601	SUMM_T2	7	9	2	0.39	0.39	0	-1.82	-1.77	2	2	0	2100	2100	0
10/16/2024 12:25	54601	SUMM_T2	7	9	2	0.39	0.39	0	-1.82	-1.77	2	2	0	2100	2100	0
10/16/2024 12:28	60101	COCA_T1	2	2	0	0.45	0.6	0.15	0.8	0.6	0	0	0	0	0	0
10/16/2024 12:28	54601	SUMM_T2	7	9	2	0.39	0.39	0	-3.63	-3.54	4	4	0	4200	4200	0
10/16/2024 12:28	60103	COCA_T2	0	0	0	0	0	0	-1.63	-1.57	1	1	0	1200	1200	0
10/16/2024 12:29	60101	COCA_T1	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
10/16/2024 12:30	10602	BLGL_T2	0	1	1	0	0.4	0.4	0.49	0.98	0	0	0	0	0	0
10/16/2024 12:31	45902	AUBU_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
10/16/2024 12:31	60101	COCA_T1	2	0	-2	0.6	0	-0.6	0.4	0.3	0	0	0	0	0	0
10/16/2024 12:31	45901	AUBU_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
10/16/2024 12:32	20403	ASHF_T2	5	7	2	0.32	0.46	0.14	1.1	1.08	0	0	0	0	0	0
10/16/2024 12:32	54502	ENOL_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
10/16/2024 12:32	54505	ENOL_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
10/16/2024 12:32	20401	ASHF_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/16/2024 12:32	54501	ENOL_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
10/16/2024 12:34	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 12:35	45901	AUBU_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
10/16/2024 12:35	45902	AUBU_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
10/16/2024 12:39	64802	MONE_T2	40	25	-15	0.36	0.33	-0.03	0.16	0.2	0	0	0	0	0	0
10/16/2024 12:39	64801	MONE_T2	3	2	-1	0.33	0.35	0.02	0	0	0	0	0	0	0	0
10/16/2024 12:40	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 12:40	43802	SWIL_T1	0	0	0	0	0	0	-0.25	-0.25	1	1	0	600	600	0
10/16/2024 12:40	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 12:40	43801	SWIL_T1	12	3	-9	0.54	1.67	1.13	0	0	0	0	0	0	0	0
10/16/2024 12:40	13302	ORVI_T2	3	2	-1	0.7	0.45	-0.25	-0.06	-0.06	0	0	0	0	0	0
10/16/2024 12:40	13701	SCHN_T2	3	3	0	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
10/16/2024 12:40	13704	SCHN_T2	1	1	0	0.1	0.1	0	-0.35	-0.36	0	0	0	0	0	0
10/16/2024 12:41	13701	SCHN_T2	3	3	0	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
10/16/2024 12:41	13704	SCHN_T2	1	1	0	0.1	0.1	0	-0.35	-0.36	0	0	0	0	0	0
10/16/2024 12:42	66502	SMAN_T2	8	2	-6	0.23	0.4	0.17	0.2	0.19	0	0	0	0	0	0
10/16/2024 12:42	62102	ELAN_T1	0	1	1	0	0.4	0.4	0.41	0.48	0	0	0	0	0	0
10/16/2024 12:42	66501	SMAN_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/16/2024 12:42	66505	SMAN_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
10/16/2024 12:43	43301	WATS_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/16/2024 12:43	43304	WATS_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
10/16/2024 12:45	43304	WATS_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
10/16/2024 12:45	14204	EALL_T2	0	0	0	0	0	0	0.12	0.2	0	0	0	0	0	0
10/16/2024 12:45	43301	WATS_T2	1	1	0	0.1	0.3	0.2	-0.79	-0.82	1	1	0	900	900	0
10/16/2024 12:46	43301	WATS_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/16/2024 12:46	43304	WATS_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
10/16/2024 12:47	11803	FRAN_T2	0	0	0	0	0	0	0.38	0.42	0	0	0	0	0	0
10/16/2024 12:47	63602	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 12:47	63601	LETO_T1	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
10/16/2024 12:48	63601	LETO_T1	2	2	0	0.35	0.65	0.3	0.88	1.01	1	1	0	900	900	0
10/16/2024 12:48	11205	ELHE_T1	1	2	1	8.1	5.3	-2.8	-0.79	-0.81	1	1	0	1200	1200	0
10/16/2024 12:48	63602	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 12:48	14204	EALL_T2	0	0	0	0	0	0	0.12	0.2	0	0	0	0	0	0
10/16/2024 12:50	64204	KINZ_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/16/2024 12:50	64202	KINZ_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
10/16/2024 12:50	46803	HEPB_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/16/2024 12:50	16401	MOPO_T1	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
10/16/2024 12:50	64203	KINZ_T1	0	0	0	0	0	0	0.78	0.83	2	2	0	900	900	0
10/16/2024 12:50	46801	HEPB_T2	2	3	1	1.1	1.05	-0.05	0.53	0.52	0	0	0	0	0	0
10/16/2024 12:50	16402	MOPO_T1	0	5	5	0	1.78	1.78	0	0	0	0	0	0	0	0
10/16/2024 12:53	20603	GRWO_T2	1	1	0	0.2	0	-0.2	0.4	0.37	0	0	0	0	0	0
10/16/2024 12:58	59102	WALK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/16/2024 12:58	59101	WALK_T2	0	0	0	0	0	0	4.99	3.77	0	0	0	0	0	0
10/16/2024 12:59	10801	CHHI_T1	6	7	1	0.38	0.43	0.05	-1.41	-1.43	2	2	0	1500	1500	0
10/16/2024 13:01	53501	EVIL_T2	0	2	2	0	0.5	0.5	0.52	0.46	1	1	0	600	600	0
10/16/2024 13:03	20201	JERM_T1	0	0	0	0	0	0	-0.1	-0.14	2	2	0	2400	2400	0
10/16/2024 13:05	46801	HEPB_T2	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 13:05	46803	HEPB_T2	1	1	0	0.3	0.5	0.2	0.5	0.49	0	0	0	0	0	0
10/16/2024 13:05	23403	HONE_T1	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
10/16/2024 13:06	10102	ALLE_T2	1	1	0	7.1	6.8	-0.3	0	0	0	0	0	0	0	0
10/16/2024 13:06	10206	ALLE_T2	1	1	0	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
10/16/2024 13:06	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 13:07	64902	MILL_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
10/16/2024 13:07	64302	LINC_T2	0	0	0	0	0	0	1.07	1.17	0	0	0	0	0	0
10/16/2024 13:07	64304	LINC_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 13:12	13701	SCHN_T2	3	4	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/16/2024 13:12	13704	SCHN_T2	0	1	1	0	0.2	0.2	-0.35	-0.33	0	0	0	0	0	0
10/16/2024 13:13	55105	WERT_T1	0	1	1	0	0	0	-0.71	-0.72	1	1	0	900	900	0
10/16/2024 13:19	52006	LING_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
10/16/2024 13:19	52002	LING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/16/2024 13:19	52004	LING_T2	2	4	2	5.55	3.63	-1.92	0.22	0.25	0	0	0	0	0	0
10/16/2024 13:21	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 13:22	52002	LING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/16/2024 13:22	52006	LING_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
10/16/2024 13:22	52004	LING_T2	2	4	2	5.55	3.63	-1.92	0.25	0.23	0	0	0	0	0	0
10/16/2024 13:23	52004	LING_T2	2	4	2	5.55	3.63	-1.92	0.25	0.23	0	0	0	0	0	0
10/16/2024 13:23	52006	LING_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
10/16/2024 13:23	52002	LING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/16/2024 13:26	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 13:28	13704	SCHN_T2	0	1	1	0	0.2	0.2	-0.33	-0.32	0	0	0	0	0	0
10/16/2024 13:28	13701	SCHN_T2	4	2	-2	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/16/2024 13:30	42701	AUGU_T1	1	1	0	0.5	0.4	-0.1	0	0	2	2	0	1800	1800	0
10/16/2024 13:32	20601	GRWO_T2	0	0	0	0	0	0	0.42	0.36	0	0	0	0	0	0
10/16/2024 13:33	55508	HERS_T2	2	2	0	1.5	1.5	0	-2.53	-2.56	1	1	0	1200	1200	0
10/16/2024 13:36	64704	LITI_T1	0	0	0	0	0	0	0.08	0.02	1	1	0	600	600	0
10/16/2024 13:36	55508	HERS_T2	2	2	0	1.5	1.5	0	-2.53	-2.56	1	1	0	1200	1200	0
10/16/2024 13:36	55507	HERS_T1	4	0	-4	0.13	0	-0.13	0.03	0.06	0	0	0	0	0	0
10/16/2024 13:36	55501	HERS_T1	52	52	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/16/2024 13:36	64701	LITI_T1	0	0	0	0	0	0	0.39	0.33	0	0	0	0	0	0
10/16/2024 13:36	39601	LNFD_T1	13	6	-7	0.7	0	-0.7	0	0	0	0	0	0	0	0
10/16/2024 13:39	66505	SMAN_T2	0	0	0	0	0	0	0.08	0.1	1	1	0	900	900	0
10/16/2024 13:40	57403	SPAN_T1	94	83	-11	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
10/16/2024 13:40	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 13:40	57401	SPAN_T1	2	2	0	1.25	1	-0.25	0.01	-0.05	0	0	0	0	0	0
10/16/2024 13:41	66504	SMAN_T2	0	0	0	0	0	0	-0.56	-0.49	0	0	0	0	0	0
10/16/2024 13:42	66505	SMAN_T2	0	0	0	0	0	0	0.08	0.1	1	1	0	900	900	0
10/16/2024 13:42	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 13:44	13701	SCHN_T2	1	5	4	0.1	0.26	0.16	0	0	0	0	0	0	0	0
10/16/2024 13:44	13704	SCHN_T2	1	1	0	0.2	0.1	-0.1	-0.32	-0.34	0	0	0	0	0	0
10/16/2024 13:45	16101	BING_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
10/16/2024 13:45	16103	BING_T2	0	1	1	0	0.4	0.4	-0.42	-0.42	1	1	0	900	900	0
10/16/2024 13:45	16102	BING_T2	6	6	0	0.8	0.77	-0.03	0	0	0	0	0	0	0	0
10/16/2024 13:46	40701	FFLD_T1	26	32	6	0.28	0.38	0.1	0	0	0	0	0	0	0	0
10/16/2024 13:46	45902	AUBU_T1	1	3	2	0.1	0.5	0.4	1.16	1.11	2	2	0	1200	1200	0
10/16/2024 13:46	48302	ORWI_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
10/16/2024 13:46	40703	FFLD_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
10/16/2024 13:46	40702	FFLD_T1	1	2	1	0.2	0.25	0.05	-0.37	-0.37	1	1	0	1200	1200	0
10/16/2024 13:46	48303	ORWI_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
10/16/2024 13:47	11202	ELHE_T2	0	0	0	0	0	0	0.39	0.39	1	1	0	1200	1200	0
10/16/2024 13:50	41202	KENM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 13:50	64305	LINC_T1	0	3	3	0	0	0	-0.15	-0.11	0	0	0	0	0	0
10/16/2024 13:50	41204	KENM_T2	0	0	0	0	0	0	-0.67	-0.73	0	0	0	0	0	0
10/16/2024 13:53	20403	ASHF_T2	5	9	4	0.48	0.56	0.08	0	0	0	0	0	0	0	0
10/16/2024 13:53	50107	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 13:53	20401	ASHF_T2	4	5	1	0.25	0.23	-0.02	-0.27	-0.3	0	0	0	0	0	0
10/16/2024 13:53	50201	HARR_T3	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/16/2024 13:53	50103	HARR_T3	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
10/16/2024 13:53	50105	HARR_T3	6	6	0	6.55	6.57	0.02	0	0	0	0	0	0	0	0
10/16/2024 13:53	67402	WAKE_T2	0	0	0	0	0	0	0.39	-0.16	1	1	0	600	600	0
10/16/2024 13:54	13701	SCHN_T2	2	5	3	0.1	0.26	0.16	0	0	0	0	0	0	0	0
10/16/2024 13:54	13704	SCHN_T2	1	0	-1	0.1	0	-0.1	-0.34	-0.35	0	0	0	0	0	0
10/16/2024 13:56	17002	RIRO_T2	8	11	3	0.39	0.37	-0.02	0.59	0.49	0	0	0	0	0	0
10/16/2024 13:57	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 13:57	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 13:58	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 13:58	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 13:59	16302	ALPA_T2	0	0	0	0	0	0	0.67	0.61	0	0	0	0	0	0
10/16/2024 14:00	11303	EMMA_T1	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
10/16/2024 14:00	11301	EMMA_T1	0	0	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0
10/16/2024 14:00	11302	EMMA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/16/2024 14:01	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 14:01	16302	ALPA_T2	0	0	0	0	0	0	1.35	1.23	0	0	0	0	0	0
10/16/2024 14:01	53501	EVIL_T2	1	2	1	0.4	0.85	0.45	0.67	0.75	2	2	0	1200	1200	0
10/16/2024 14:01	67605	WARW_T1	29	31	2	0.55	0.58	0.03	-1.05	-1.07	0	0	0	0	0	0
10/16/2024 14:02	43304	WATS_T2	2	2	0	0.4	0.55	0.15	-1.04	-1.02	0	0	0	0	0	0
10/16/2024 14:02	43301	WATS_T2	0	2	2	0	0.3	0.3	-0.83	-0.83	1	1	0	900	900	0
10/16/2024 14:02	53501	EVIL_T2	1	2	1	0.4	0.85	0.45	0.33	0.38	1	1	0	600	600	0
10/16/2024 14:02	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 14:02	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 14:02	16302	ALPA_T2	0	0	0	0	0	0	0.67	0.61	0	0	0	0	0	0
10/16/2024 14:03	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 14:03	53501	EVIL_T2	1	2	1	0.4	0.85	0.45	0.33	0.38	1	1	0	600	600	0
10/16/2024 14:04	22901	HARW_T1	0	0	0	0	0	0	-0.19	-0.21	1	1	0	1200	1200	0
10/16/2024 14:05	53501	EVIL_T2	1	2	1	0.4	0.85	0.45	0.33	0.38	1	1	0	600	600	0
10/16/2024 14:05	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 14:08	58401	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/16/2024 14:08	58402	MORO_T1	0	0	0	0	0	0	-0.24	-0.25	2	2	0	1500	1500	0
10/16/2024 14:15	16301	ALPA_T1	0	1	1	0	0.6	0.6	-0.16	-0.16	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/16/2024 14:17	24104	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 14:17	24105	EHAZ_T1	4	4	0	6.33	6.68	0.35	0	0	0	0	0	0	0	0
10/16/2024 14:17	24102	EHAZ_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
10/16/2024 14:20	11303	EMMA_T1	1	2	1	0.4	0.85	0.45	0	0	0	0	0	0	0	0
10/16/2024 14:20	11301	EMMA_T1	0	0	0	0	0	0	-0.85	-0.83	0	0	0	0	0	0
10/16/2024 14:23	42903	MIDD_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
10/16/2024 14:23	42902	MIDD_T2	0	1	1	0	0.1	0.1	-0.28	-0.26	1	1	0	600	600	0
10/16/2024 14:24	59301	MCAL_T1	2	2	0	0.35	1.2	0.85	-1.85	-1.86	1	1	0	600	600	0
10/16/2024 14:25	25402	LAHA_T2	0	0	0	0	0	0	-0.2	-0.71	0	0	0	0	0	0
10/16/2024 14:27	15203	SFAR_T2	1	1	0	0.5	0.1	-0.4	-1.4	-1.37	0	0	0	0	0	0
10/16/2024 14:28	16302	ALPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 14:35	13502	MCMI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 14:35	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/16/2024 14:43	43304	WATS_T2	1	1	0	0.4	0.4	0	-0.56	-0.55	0	0	0	0	0	0
10/16/2024 14:43	43301	WATS_T2	2	3	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
10/16/2024 14:43	43302	WATS_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/16/2024 14:43	42701	AUGU_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 14:44	15203	SFAR_T2	1	1	0	0.1	0.1	0	-1.37	-1.38	0	0	0	0	0	0
10/16/2024 14:50	15203	SFAR_T2	1	1	0	0.1	0.2	0.1	-1.37	-1.38	0	0	0	0	0	0
10/16/2024 14:55	54602	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/16/2024 14:55	17001	RIRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 14:55	54601	SUMM_T2	4	11	7	0.58	0.6	0.02	0	0	0	0	0	0	0	0
10/16/2024 14:56	42701	AUGU_T1	1	1	0	1.1	1	-0.1	0	0	2	2	0	1800	1800	0
10/16/2024 14:59	12302	LANA_T2	0	0	0	0	0	0	-1.76	-1.77	2	2	0	1500	1500	0
10/16/2024 14:59	16301	ALPA_T1	1	0	-1	0.6	0	-0.6	-0.06	-0.09	0	0	0	0	0	0
10/16/2024 14:59	15001	BLMO_T1	6	7	1	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
10/16/2024 14:59	23402	HONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 15:00	67502	WEWI_T2	71	380	309	0.19	0.3	0.11	-0.32	-0.38	0	0	0	0	0	0
10/16/2024 15:00	67503	WEWI_T2	1	3	2	9.4	3.43	-5.97	-0.56	-0.58	0	0	0	0	0	0
10/16/2024 15:01	67502	WEWI_T2	71	380	309	0.19	0.3	0.11	-0.64	-0.76	0	0	0	0	0	0
10/16/2024 15:01	67503	WEWI_T2	1	3	2	9.4	3.43	-5.97	-0.28	-0.29	0	0	0	0	0	0
10/16/2024 15:02	67501	WEWI_T1	3	3	0	0.6	0.3	-0.3	-0.41	-0.45	0	0	0	0	0	0
10/16/2024 15:03	67503	WEWI_T2	1	3	2	9.4	3.43	-5.97	-0.28	-0.29	0	0	0	0	0	0
10/16/2024 15:03	67501	WEWI_T1	3	3	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
10/16/2024 15:03	67505	WEWI_T1	0	0	0	0	0	0	-0.11	-0.11	1	1	0	900	900	0
10/16/2024 15:03	67502	WEWI_T2	71	380	309	0.19	0.3	0.11	0	0	0	0	0	0	0	0
10/16/2024 15:04	67502	WEWI_T2	71	380	309	0.19	0.3	0.11	0	0	0	0	0	0	0	0
10/16/2024 15:04	67503	WEWI_T2	1	3	2	9.4	3.43	-5.97	-0.28	-0.29	0	0	0	0	0	0
10/16/2024 15:05	13303	ORVI_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
10/16/2024 15:05	46101	MACI_T2	0	0	0	0	0	0	-0.48	-0.2	1	1	0	1200	1200	0
10/16/2024 15:06	13303	ORVI_T1	0	3	3	0	0.23	0.23	-0.4	-0.4	0	0	0	0	0	0
10/16/2024 15:09	67103	SPRI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 15:12	57402	SPAN_T2	0	0	0	0	0	0	-0.56	-0.59	0	0	0	0	0	0
10/16/2024 15:12	54601	SUMM_T2	10	11	1	0.48	0.61	0.13	0	0	0	0	0	0	0	0
10/16/2024 15:12	54603	SUMM_T2	0	0	0	0	0	0	-0.43	-0.43	1	1	0	900	900	0
10/16/2024 15:14	10805	CHHI_T2	1	2	1	7.6	3.6	-4	-1.55	-1.59	1	1	0	1200	1200	0
10/16/2024 15:19	50105	HARR_T3	6	6	0	6.33	6.25	-0.08	0	0	0	0	0	0	0	0
10/16/2024 15:19	50107	HARR_T3	1	1	0	9.8	9.7	-0.1	0	0	0	0	0	0	0	0
10/16/2024 15:19	67503	WEWI_T2	3	3	0	3.27	3.43	0.16	-0.29	-0.27	0	0	0	0	0	0
10/16/2024 15:19	67502	WEWI_T2	356	419	63	0.3	0.34	0.04	0	0	0	0	0	0	0	0
10/16/2024 15:19	50201	HARR_T3	1	1	0	0.9	0.9	0	0	0	1	1	0	1200	1200	0
10/16/2024 15:19	60803	BUCK_T1	11	14	3	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
10/16/2024 15:19	60801	BUCK_T1	4	4	0	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
10/16/2024 15:22	50107	HARR_T3	1	1	0	9.8	9.7	-0.1	0	0	0	0	0	0	0	0
10/16/2024 15:22	50105	HARR_T3	6	6	0	6.33	6.25	-0.08	0	0	0	0	0	0	0	0
10/16/2024 15:22	50201	HARR_T3	1	1	0	0.9	0.9	0	0	0	1	1	0	1200	1200	0
10/16/2024 15:25	20401	ASHF_T2	2	8	6	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
10/16/2024 15:25	20403	ASHF_T2	7	79	72	0.34	0.27	-0.07	0.97	0.64	0	0	0	0	0	0
10/16/2024 15:26	57403	SPAN_T1	130	105	-25	0.28	0.31	0.03	0	-0.02	0	0	0	0	0	0
10/16/2024 15:26	51304	WIND_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/16/2024 15:26	57401	SPAN_T1	2	3	1	1.5	1.13	-0.37	0	0	0	0	0	0	0	0
10/16/2024 15:26	51306	WIND_T2	1	0	-1	0.1	0	-0.1	0.08	0.05	0	0	0	0	0	0
10/16/2024 15:27	46005	BERW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/16/2024 15:27	46001	BERW_T1	1	0	-1	0.8	0	-0.8	0.77	0.8	0	0	0	0	0	0
10/16/2024 15:28	51303	WIND_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/16/2024 15:28	51305	WIND_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
10/16/2024 15:30	51302	WIND_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
10/16/2024 15:30	46002	BERW_T2	0	0	0	0	0	0	-1.06	-0.84	1	1	0	900	900	0
10/16/2024 15:30	51304	WIND_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/16/2024 15:31	51304	WIND_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/16/2024 15:32	44502	HAMI_T2	1	1	0	3	3.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 15:32	51603	DUKE_T1	2	0	-2	0.15	0	-0.15	83.96	83.96	0	0	0	0	0	0
10/16/2024 15:32	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 15:33	44502	HAMI_T2	1	1	0	3	3.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 15:33	44505	HAMI_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
10/16/2024 15:35	63501	HEID_TBK1-2	33	104	71	0.28	0.44	0.16	-0.14	-0.4	1	1	0	900	900	0
10/16/2024 15:45	51306	WIND_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
10/16/2024 15:48	40901	JESH_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/16/2024 15:48	40902	JESH_T1	0	0	0	0	0	0	-0.76	-0.81	0	0	0	0	0	0
10/16/2024 15:48	51604	DUKE_T2	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
10/16/2024 15:48	46205	DANV_T2	0	0	0	0	0	0	-0.82	-0.84	1	1	0	1200	1200	0
10/16/2024 15:49	40901	JESH_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/16/2024 15:49	40902	JESH_T1	0	0	0	0	0	0	-0.76	-0.81	0	0	0	0	0	0
10/16/2024 15:51	40902	JESH_T1	0	0	0	0	0	0	-0.81	-0.79	0	0	0	0	0	0
10/16/2024 15:51	40901	JESH_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/16/2024 15:58	55507	HERS_T1	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
10/16/2024 16:06	46602	LACR_T1	3	1	-2	0.7	0.2	-0.5	-0.98	-0.99	0	0	0	0	0	0
10/16/2024 16:07	46101	MACI_T2	0	1	1	0	0	0	-0.43	-0.46	1	1	0	1200	1200	0
10/16/2024 16:09	64901	MILL_T1	1	5	4	0.1	0.1	0	0	0	0	0	0	0	0	0
10/16/2024 16:09	64904	MILL_T1	0	0	0	0	0	0	0.38	0.34	0	0	0	0	0	0
10/16/2024 16:19	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/16/2024 16:20	65003	NEFF_T2	4	6	2	0.15	0.3	0.15	-2.06	-2.12	2	2	0	1800	1800	0
10/16/2024 16:20	65005	NEFF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/16/2024 16:23	65005	NEFF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/16/2024 16:23	65003	NEFF_T2	4	6	2	0.15	0.3	0.15	0	0	0	0	0	0	0	0
10/16/2024 16:23	65004	NEFF_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
10/16/2024 16:23	44703	MUNC_T2	2	2	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
10/16/2024 16:23	44702	MUNC_T2	19	98	79	0.15	0.25	0.1	0	0	0	0	0	0	0	0
10/16/2024 16:23	44701	MUNC_T2	1	8	7	0.4	0.19	-0.21	0	0	0	0	0	0	0	0
10/16/2024 16:26	65802	RTWN_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
10/16/2024 16:27	41902	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 16:27	41901	REED_T1	1	9	8	0.1	0.17	0.07	0	0	0	0	0	0	0	0
10/16/2024 16:27	59402	RFLD_T2	0	0	0	0	0	0	-0.9	-0.89	1	1	0	450	450	0
10/16/2024 16:29	66505	SMAN_T2	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
10/16/2024 16:29	66502	SMAN_T2	7	5	-2	0.5	0.18	-0.32	-0.18	-0.07	0	0	0	0	0	0
10/16/2024 16:29	66504	SMAN_T2	0	0	0	0	0	0	-0.42	-0.36	0	0	0	0	0	0
10/16/2024 16:30	66505	SMAN_T2	2	3	1	0.75	0.73	-0.02	-0.06	-0.03	1	1	0	900	900	0
10/16/2024 16:30	66504	SMAN_T2	0	0	0	0	0	0	-0.42	-0.36	0	0	0	0	0	0
10/16/2024 16:30	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 16:30	66502	SMAN_T2	5	8	3	0.18	0.34	0.16	-0.36	-0.14	0	0	0	0	0	0
10/16/2024 16:31	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 16:31	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 16:31	66505	SMAN_T2	2	3	1	0.75	0.73	-0.02	-0.06	-0.03	1	1	0	900	900	0
10/16/2024 16:31	66502	SMAN_T2	5	8	3	0.18	0.34	0.16	0	0	0	0	0	0	0	0
10/16/2024 16:32	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 16:33	66503	SMAN_T2	0	0	0	0	0	0	0.31	0.37	0	0	0	0	0	0
10/16/2024 16:33	66504	SMAN_T2	0	0	0	0	0	0	-0.42	-0.36	0	0	0	0	0	0
10/16/2024 16:33	66502	SMAN_T2	5	8	3	0.18	0.34	0.16	0	0	0	0	0	0	0	0
10/16/2024 16:33	66505	SMAN_T2	2	3	1	0.75	0.73	-0.02	0	0	0	0	0	0	0	0
10/16/2024 16:37	66505	SMAN_T2	2	3	1	0.75	0.73	-0.02	0	0	0	0	0	0	0	0
10/16/2024 16:37	66502	SMAN_T2	5	8	3	0.18	0.34	0.16	-0.03	-0.12	0	0	0	0	0	0
10/16/2024 16:39	14802	TREI_T2	3	2	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
10/16/2024 16:39	14801	TREI_T2	3	2	-1	0.6	0.4	-0.2	0.36	0.34	0	0	0	0	0	0
10/16/2024 16:42	14802	TREI_T2	3	2	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
10/16/2024 16:42	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 16:42	14801	TREI_T2	3	2	-1	0.6	0.4	-0.2	0.36	0.34	0	0	0	0	0	0
10/16/2024 16:45	57201	ROSS_T1	0	28	28	0	0.19	0.19	-1.14	-1.04	0	0	0	0	0	0
10/16/2024 16:45	57205	ROSS_T1	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
10/16/2024 16:46	46004	BERW_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
10/16/2024 16:49	24204	PROV_T3	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
10/16/2024 16:49	24201	PROV_T3	1	1	0	6.5	6.5	0	0	0	1	1	0	1200	1200	0
10/16/2024 17:04	51602	DUKE_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
10/16/2024 17:05	62605	ENGL_T1	0	0	0	0	0	0	-1.66	-1.74	0	0	0	0	0	0
10/16/2024 17:05	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 17:13	51306	WIND_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
10/16/2024 17:16	57205	ROSS_T1	2	0	-2	0.25	0	-0.25	0.15	0.12	0	0	0	0	0	0
10/16/2024 17:16	51301	WIND_T1	0	0	0	0	0	0	0.52	0.42	0	0	0	0	0	0
10/16/2024 17:16	57201	ROSS_T1	28	20	-8	0.19	0.22	0.03	0	0	0	0	0	0	0	0
10/16/2024 17:22	54505	ENOL_T2	1	1	0	1.1	0.8	-0.3	-1.38	-1.36	1	1	0	600	600	0
10/16/2024 17:22	54502	ENOL_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
10/16/2024 17:26	67502	WEWI_T2	17	0	-17	0.12	0	-0.12	0	0	0	0	0	0	0	0
10/16/2024 17:26	67503	WEWI_T2	2	1	-1	4.35	7.8	3.45	-0.3	-0.31	0	0	0	0	0	0
10/16/2024 17:27	54505	ENOL_T2	1	1	0	1.1	0.8	-0.3	-1.38	-1.36	1	1	0	600	600	0
10/16/2024 17:27	54502	ENOL_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
10/16/2024 17:29	43304	WATS_T2	0	0	0	0	0	0	-0.62	-0.65	0	0	0	0	0	0
10/16/2024 17:29	43302	WATS_T2	4	4	0	0.68	0.9	0.22	0	0	0	0	0	0	0	0
10/16/2024 17:34	66502	SMAN_T2	6	0	-6	0.27	0	-0.27	-0.1	-0.04	0	0	0	0	0	0
10/16/2024 17:34	66505	SMAN_T2	3	3	0	0.77	1.3	0.53	0	0	0	0	0	0	0	0
10/16/2024 17:37	54505	ENOL_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/16/2024 17:37	54502	ENOL_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
10/16/2024 17:37	54504	ENOL_T2	0	0	0	0	0	0	-1.19	-1.15	1	1	0	600	600	0
10/16/2024 17:38	27604	PIRI_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
10/16/2024 17:38	51304	WIND_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
10/16/2024 17:40	27604	PIRI_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
10/16/2024 17:42	49803	UNIV_T1	1	1	0	4.6	4.5	-0.1	0	0	0	0	0	0	0	0
10/16/2024 17:42	49804	UNIV_T1	0	0	0	0	0	0	0.51	0.48	0	0	0	0	0	0
10/16/2024 17:44	45303	WBER_T2	1	2	1	9	4.55	-4.45	0	0	0	0	0	0	0	0
10/16/2024 17:44	45302	WBER_T2	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
10/16/2024 17:45	49804	UNIV_T1	0	0	0	0	0	0	0.51	0.48	0	0	0	0	0	0
10/16/2024 17:45	49803	UNIV_T1	1	1	0	4.5	4.8	0.3	0	0	0	0	0	0	0	0
10/16/2024 18:00	46002	BERW_T2	0	0	0	0	0	0	-1.22	-1.22	1	1	0	900	900	0
10/16/2024 18:00	46004	BERW_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
10/16/2024 18:11	60301	TWVA_T2	0	0	0	0	0	0	-3.04	-3.05	3	3	0	2700	2700	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/16/2024 19:33	54505	ENOL_T2	0	1	1	0	0.2	0.2	-1.33	-1.32	1	1	0	600	600	0
10/16/2024 19:36	59402	RFLD_T2	0	0	0	0	0	0	-0.91	-0.91	1	1	0	450	450	0
10/16/2024 20:05	64903	MILL_T2	0	1	1	0	0	0	0.25	0.27	0	0	0	0	0	0
10/16/2024 20:11	17002	RIRO_T2	54	126	72	0.11	0.15	0.04	0.31	0.35	0	0	0	0	0	0
10/16/2024 20:12	21206	ECAR_T2	1	1	0	6	6.6	0.6	1.41	1.42	0	0	0	0	0	0
10/16/2024 20:12	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:12	27604	PIRI_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
10/16/2024 20:14	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:14	62602	ENGL_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
10/16/2024 20:15	62607	ENGL_T1	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
10/16/2024 20:16	20201	JERM_T1	0	0	0	0	0	0	-1.06	-1.05	2	2	0	2400	2400	0
10/16/2024 20:16	24202	PROV_T4	7	11	4	0.1	0.1	0	0	0	1	1	0	1200	1200	0
10/16/2024 20:16	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:17	50201	HARR_T3	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:17	50107	HARR_T3	1	1	0	9.3	8.6	-0.7	0	0	0	0	0	0	0	0
10/16/2024 20:17	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:17	50102	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:17	50105	HARR_T3	6	6	0	6.3	6.25	-0.05	0	0	0	0	0	0	0	0
10/16/2024 20:17	24201	PROV_T3	1	1	0	6.8	6.3	-0.5	0	0	1	1	0	1200	1200	0
10/16/2024 20:17	50103	HARR_T3	2	2	0	1	0.85	-0.15	0	0	0	0	0	0	0	0
10/16/2024 20:17	10602	BLGL_T2	0	0	0	0	0	0.05	0.1	0	0	0	0	0	0	0
10/16/2024 20:17	24204	PROV_T3	2	2	0	2.8	2.85	0.05	0	0	0	0	0	0	0	0
10/16/2024 20:18	16102	BING_T2	12	17	5	0.19	0.31	0.12	0	0	0	0	0	0	0	0
10/16/2024 20:18	10805	CHHI_T2	1	1	0	8	7.9	-0.1	-0.93	-0.96	1	1	0	600	600	0
10/16/2024 20:18	16101	BING_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
10/16/2024 20:18	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
10/16/2024 20:18	15703	TANN_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:19	10705	CATA_T2	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
10/16/2024 20:19	10702	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/16/2024 20:19	10701	CATA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/16/2024 20:19	23402	HONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:20	15203	SFAR_T2	0	0	0	0	0	0	-1.37	-1.37	0	0	0	0	0	0
10/16/2024 20:21	16401	MOPO_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
10/16/2024 20:21	10705	CATA_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
10/16/2024 20:21	67603	WARW_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
10/16/2024 20:21	22003	BOHE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:21	67502	WEWI_T2	177	59	-118	0.24	0.15	-0.09	-0.47	-0.4	0	0	0	0	0	0
10/16/2024 20:21	46004	BERW_T2	1	0	-1	0.1	0	-0.1	-0.32	-0.22	0	0	0	0	0	0
10/16/2024 20:21	10702	CATA_T2	1	1	0	0.2	0.2	0	-0.83	-0.78	0	0	0	0	0	0
10/16/2024 20:21	67503	WEWI_T2	1	1	0	8.2	8	-0.2	0	0	0	0	0	0	0	0
10/16/2024 20:21	10701	CATA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/16/2024 20:21	67605	WARW_T1	6	6	0	0.23	0.4	0.17	0	0	0	0	0	0	0	0
10/16/2024 20:21	62601	ENGL_T1	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
10/16/2024 20:21	23403	HONE_T1	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
10/16/2024 20:21	22002	BOHE_T1	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
10/16/2024 20:21	62607	ENGL_T1	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
10/16/2024 20:22	67503	WEWI_T2	1	1	0	8.2	8	-0.2	-0.28	-0.29	0	0	0	0	0	0
10/16/2024 20:22	67502	WEWI_T2	177	59	-118	0.24	0.15	-0.09	0	0	0	0	0	0	0	0
10/16/2024 20:22	22003	BOHE_T1	1	0	-1	0.1	0	-0.1	-0.21	-0.21	0	0	0	0	0	0
10/16/2024 20:22	42701	AUGU_T1	1	1	0	0.6	0.7	0.1	0	0	2	2	0	1800	1800	0
10/16/2024 20:22	13303	ORVI_T1	0	0	0	0	0	0	-0.48	-0.54	0	0	0	0	0	0
10/16/2024 20:22	46004	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:22	25402	LAHA_T2	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
10/16/2024 20:22	45302	WBER_T2	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
10/16/2024 20:22	39601	LNFD_T1	38	38	0	1.65	0.97	-0.68	0	0	0	0	0	0	0	0
10/16/2024 20:22	22901	HARW_T1	1	0	-1	0.2	0	-0.2	-0.72	-0.7	1	1	0	1200	1200	0
10/16/2024 20:22	46002	BERW_T2	0	0	0	0	0	0	-1.18	-1.22	1	1	0	900	900	0
10/16/2024 20:22	45303	WBER_T2	1	1	0	9.6	9.7	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:23	66502	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:23	46602	LACR_T1	1	1	0	0.1	0.2	0.1	-0.9	-0.99	0	0	0	0	0	0
10/16/2024 20:23	65604	QVIL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:23	65004	NEFF_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
10/16/2024 20:23	66505	SMAN_T2	3	3	0	1.5	1.67	0.17	-0.43	-0.46	1	1	0	900	900	0
10/16/2024 20:23	65603	QVIL_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
10/16/2024 20:23	65601	QVIL_T2	86	48	-38	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
10/16/2024 20:23	44801	EDAN_T2	202	257	55	0.56	0.65	0.09	0	0	0	0	0	0	0	0
10/16/2024 20:23	66501	SMAN_T2	3	2	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:23	64302	LINC_T2	0	0	0	0	0	0	0.99	0.96	0	0	0	0	0	0
10/16/2024 20:23	65003	NEFF_T2	64	60	-4	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
10/16/2024 20:23	60101	COCA_T1	0	0	0	0	0	0	0.22	0.17	0	0	0	0	0	0
10/16/2024 20:23	15703	TANN_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:23	47401	PENS_T1	0	0	0	0	0	0	0.26	0.14	0	0	0	0	0	0
10/16/2024 20:23	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
10/16/2024 20:23	11301	EMMA_T1	0	0	0	0	0	0	-0.89	-0.91	0	0	0	0	0	0
10/16/2024 20:23	44802	EDAN_T2	1	1	0	0	0.2	0.2	-1.86	-1.86	0	0	0	0	0	0
10/16/2024 20:23	47403	PENS_T1	7	0	-7	0.11	0	-0.11	0	0	0	0	0	0	0	0
10/16/2024 20:24	62605	ENGL_T1	0	0	0	0	0	0	-0.88	-0.86	0	0	0	0	0	0
10/16/2024 20:24	24102	EHAZ_T1	1	5	4	1.7	1.8	0.1	0.24	0.28	0	0	0	0	0	0
10/16/2024 20:24	20401	ASHF_T2	3	5	2	0.7	0.42	-0.28	0	0	0	0	0	0	0	0
10/16/2024 20:24	66505	SMAN_T2	3	3	0	1.5	1.67	0.17	0	0	0	0	0	0	0	0
10/16/2024 20:24	65604	QVIL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:24	24105	EHAZ_T1	4	4	0	6.1	6.33	0.23	0	0	0	0	0	0	0	0
10/16/2024 20:24	65601	QVIL_T2	86	48	-38	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
10/16/2024 20:24	41202	KENM_T2	1	1	0	0.3	0.5	0.2	0.52	0.51	0	0	0	0	0	0
10/16/2024 20:24	62607	ENGL_T1	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
10/16/2024 20:24	16102	BING_T2	12	17	5	0.19	0.31	0.12	0	0	0	0	0	0	0	0
10/16/2024 20:24	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:24	66502	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:24	65603	QVIL_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
10/16/2024 20:24	66504	SMAN_T2	0	0	0	0	0	0	-0.97	-1.11	0	0	0	0	0	0
10/16/2024 20:24	13302	ORVI_T2	0	0	0	0	0	0	1.34	1.32	0	0	0	0	0	0
10/16/2024 20:24	24101	EHAZ_T1	5	12	7	0.28	0.28	0	0	0	0	0	0	0	0	0
10/16/2024 20:24	10701	CATA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/16/2024 20:24	22001	BOHE_T1	0	0	0	0	0	0	-0.28	-0.3	1	1	0	600	600	0
10/16/2024 20:24	63501	HEID_TBK1-2	35	32	-3	0.34	0.22	-0.12	0.72	0.69	0	0	0	0	0	0
10/16/2024 20:24	10705	CATA_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
10/16/2024 20:24	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:24	20403	ASHF_T2	0	0	0	0	0	0	0.09	0.18	0	0	0	0	0	0
10/16/2024 20:24	22003	BOHE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:24	66501	SMAN_T2	3	2	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:24	16101	BING_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
10/16/2024 20:24	40802	EXCH_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
10/16/2024 20:24	16302	ALPA_T2	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
10/16/2024 20:24	10702	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/16/2024 20:24	45901	AUBU_T1	0	0	0	0	0	0	1.46	1.43	0	0	0	0	0	0
10/16/2024 20:25	63601	LETO_T1	0	0	0	0	0	0	0.95	0.95	1	1	0	900	900	0
10/16/2024 20:25	10705	CATA_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
10/16/2024 20:25	60801	BUCK_T1	3	0	-3	0.1	0	-0.1	-0.26	-0.26	0	0	0	0	0	0
10/16/2024 20:25	60201	ATGL_T2	74	68	-6	0.23	0.22	-0.01	-0.16	-0.21	0	0	0	0	0	0
10/16/2024 20:25	10702	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/16/2024 20:25	13302	ORVI_T2	0	0	0	0	0	0	1.34	1.32	0	0	0	0	0	0
10/16/2024 20:25	45702	LIND_T2	1	1	0	1.3	0.3	-1	0	0	0	0	0	0	0	0
10/16/2024 20:25	62605	ENGL_T1	0	0	0	0	0	0	-0.88	-0.86	0	0	0	0	0	0
10/16/2024 20:25	60803	BUCK_T1	3	2	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
10/16/2024 20:25	54505	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:25	63602	LETO_T1	20	0	-20	0.11	0	-0.11	0	0	0	0	0	0	0	0
10/16/2024 20:25	54501	ENOL_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
10/16/2024 20:25	14801	TREI_T2	1	1	0	0.1	0.2	0.1	0.39	0.39	0	0	0	0	0	0
10/16/2024 20:25	49804	UNIV_T1	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
10/16/2024 20:25	45902	AUBU_T1	0	0	0	0	0	0	0.29	0.28	1	1	0	600	600	0
10/16/2024 20:25	45701	LIND_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
10/16/2024 20:25	10701	CATA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/16/2024 20:25	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:25	49803	UNIV_T1	1	1	0	4.7	4.4	-0.3	0	0	0	0	0	0	0	0
10/16/2024 20:25	54601	SUMM_T2	2	3	1	0.25	0.27	0.02	-1.94	-1.91	2	2	0	2100	2100	0
10/16/2024 20:25	65502	MOJO_T2	268	185	-83	0.19	0.13	-0.06	-1.07	-1.04	0	0	0	0	0	0
10/16/2024 20:25	65503	MOJO_T2	58	16	-42	0.11	0.11	0	0	0	0	0	0	0	0	0
10/16/2024 20:26	13503	MCMI_T2	0	0	0	0	0	0	0.04	0.11	0	0	0	0	0	0
10/16/2024 20:26	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:26	65601	QVIL_T2	86	48	-38	0.22	0.18	-0.04	-1.34	-1.29	1	1	0	900	900	0
10/16/2024 20:26	16302	ALPA_T2	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
10/16/2024 20:26	67502	WEWI_T2	177	59	-118	0.24	0.15	-0.09	-0.47	-0.4	0	0	0	0	0	0
10/16/2024 20:26	65602	QVIL_T2	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
10/16/2024 20:26	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:26	44801	EDAN_T2	202	257	55	0.56	0.65	0.09	0	0	0	0	0	0	0	0
10/16/2024 20:26	60801	BUCK_T1	3	0	-3	0.1	0	-0.1	-0.26	-0.26	0	0	0	0	0	0
10/16/2024 20:26	66502	SMAN_T2	2	0	-2	0.1	0	-0.1	-0.29	-0.14	0	0	0	0	0	0
10/16/2024 20:26	45902	AUBU_T1	0	0	0	0	0	0	0.29	0.28	1	1	0	600	600	0
10/16/2024 20:26	66501	SMAN_T2	3	2	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:26	63501	HEID_TBK1-2	35	32	-3	0.34	0.22	-0.12	0.36	0.35	0	0	0	0	0	0
10/16/2024 20:26	66505	SMAN_T2	3	3	0	1.5	1.67	0.17	-0.43	-0.46	1	1	0	900	900	0
10/16/2024 20:26	65604	QVIL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:26	44802	EDAN_T2	1	1	0	0	0.2	0.2	-0.93	-0.93	0	0	0	0	0	0
10/16/2024 20:26	41901	REED_T1	1	6	5	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/16/2024 20:26	10702	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/16/2024 20:26	10705	CATA_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
10/16/2024 20:26	67605	WARW_T1	6	6	0	0.23	0.4	0.17	-1.08	-1.07	0	0	0	0	0	0
10/16/2024 20:26	57401	SPAN_T1	2	2	0	0.55	0.65	0.1	0.21	0.23	0	0	0	0	0	0
10/16/2024 20:26	66504	SMAN_T2	0	0	0	0	0	0	-0.48	-0.56	0	0	0	0	0	0
10/16/2024 20:26	65502	MOJO_T2	268	185	-83	0.19	0.13	-0.06	0	0	0	0	0	0	0	0
10/16/2024 20:26	43301	WATS_T2	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
10/16/2024 20:26	60803	BUCK_T1	3	2	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
10/16/2024 20:26	67402	WAKE_T2	0	0	0	0	0	0	0.16	0.2	0	0	0	0	0	0
10/16/2024 20:26	43302	WATS_T2	3	4	1	0.17	0.4	0.23	0	0	0	0	0	0	0	0
10/16/2024 20:26	65503	MOJO_T2	58	16	-42	0.11	0.11	0	-0.4	-0.43	0	0	0	0	0	0
10/16/2024 20:26	54601	SUMM_T2	2	3	1	0.25	0.27	0.02	-1.94	-1.91	2	2	0	2100	2100	0
10/16/2024 20:26	67503	WEWI_T2	1	1	0	8.2	8	-0.2	0	0	0	0	0	0	0	0
10/16/2024 20:26	46001	BERW_T1	0	0	0	0	0	0	0.6	0.55	0	0	0	0	0	0
10/16/2024 20:26	10701	CATA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/16/2024 20:27	50107	HARR_T3	1	1	0	9.3	8.6	-0.7	0	0	0	0	0	0	0	0
10/16/2024 20:27	50201	HARR_T3	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:27	14801	TREI_T2	1	1	0	0.1	0.2	0.1	0.39	0.39	0	0	0	0	0	0
10/16/2024 20:27	45901	AUBU_T1	0	0	0	0	0	0	1.46	1.43	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/16/2024 20:27	55508	HERS_T2	2	2	0	1.75	1.9	0.15	-2.64	-2.64	1	1	0	1200	1200	0
10/16/2024 20:27	50105	HARR_T3	6	6	0	6.3	6.25	-0.05	0	0	0	0	0	0	0	0
10/16/2024 20:27	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:27	40802	EXCH_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
10/16/2024 20:27	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:27	50103	HARR_T3	2	2	0	1	0.85	-0.15	0	0	0	0	0	0	0	0
10/16/2024 20:27	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:27	44502	HAMI_T2	1	1	0	3.2	3.4	0.2	-0.9	-0.88	0	0	0	0	0	0
10/16/2024 20:27	63803	HEMP_T1	0	0	0	0	0	0	0.58	0.52	0	0	0	0	0	0
10/16/2024 20:27	64704	LITI_T1	0	0	0	0	0	0	1.04	0.78	0	0	0	0	0	0
10/16/2024 20:27	50102	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:27	64305	LINC_T1	0	0	0	0	0	0	-0.66	-0.57	0	0	0	0	0	0
10/16/2024 20:27	62605	ENGL_T1	0	0	0	0	0	0	-0.88	-0.86	0	0	0	0	0	0
10/16/2024 20:27	22901	HARW_T1	1	0	-1	0.2	0	-0.2	-0.72	-0.7	1	1	0	1200	1200	0
10/16/2024 20:27	67503	WEWI_T2	1	1	0	8.2	8	-0.2	-0.28	-0.29	0	0	0	0	0	0
10/16/2024 20:27	15202	SFAR_T1	0	0	0	0	0	0	-0.69	-0.72	1	1	0	1200	1200	0
10/16/2024 20:27	67502	WEWI_T2	177	59	-118	0.24	0.15	-0.09	0	0	0	0	0	0	0	0
10/16/2024 20:27	63804	HEMP_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:27	45501	DERR_T2	0	2	2	0	0	0	0.46	0.3	2	2	0	1800	1800	0
10/16/2024 20:28	43304	WATS_T2	0	0	0	0	0	0	-0.62	-0.27	0	0	0	0	0	0
10/16/2024 20:28	15203	SFAR_T2	0	0	0	0	0	0	-1.37	-1.38	0	0	0	0	0	0
10/16/2024 20:28	62606	ENGL_T1	0	0	0	0	0	0	-0.99	-1.03	1	1	0	900	900	0
10/16/2024 20:28	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:28	43801	SWIL_T1	2	2	0	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:28	54505	ENOL_T2	1	1	0	0.3	0.4	0.1	-1.3	-1.32	1	1	0	600	600	0
10/16/2024 20:28	60301	TWVA_T2	0	0	0	0	0	0	-3.11	-3.09	3	3	0	2700	2700	0
10/16/2024 20:28	52004	LING_T2	2	2	0	5.85	5.85	0	0.1	0.16	0	0	0	0	0	0
10/16/2024 20:28	64602	LEOL_T1	0	0	0	0	0	0	0.14	0.1	0	0	0	0	0	0
10/16/2024 20:28	52006	LING_T2	2	2	0	0.3	0.55	0.25	0	0	0	0	0	0	0	0
10/16/2024 20:28	66505	SMAN_T2	3	3	0	1.5	1.67	0.17	-0.43	-0.46	1	1	0	900	900	0
10/16/2024 20:28	43302	WATS_T2	3	4	1	0.17	0.4	0.23	0	0	0	0	0	0	0	0
10/16/2024 20:28	66502	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:28	10801	CHHI_T1	0	0	0	0	0	0	-1.63	-1.64	2	2	0	1500	1500	0
10/16/2024 20:28	66501	SMAN_T2	3	2	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:28	54506	ENOL_T2	0	0	0	0	0	0	0.53	0.45	1	1	0	600	600	0
10/16/2024 20:28	45501	DERR_T2	0	2	2	0	0	0	0.46	0.3	2	2	0	1800	1800	0
10/16/2024 20:28	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:29	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:29	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:29	15703	TANN_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:29	62102	ELAN_T1	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
10/16/2024 20:29	66502	SMAN_T2	2	0	-2	0.1	0	-0.1	-0.29	-0.14	0	0	0	0	0	0
10/16/2024 20:29	11203	ELHE_T1	0	0	0	0	0	0	0.93	0.92	0	0	0	0	0	0
10/16/2024 20:29	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
10/16/2024 20:29	11205	ELHE_T1	0	8	8	0	0.15	0.15	0	0	0	0	0	0	0	0
10/16/2024 20:29	40901	JESH_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:29	66501	SMAN_T2	3	2	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:29	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:29	66505	SMAN_T2	3	3	0	1.5	1.67	0.17	0	0	0	0	0	0	0	0
10/16/2024 20:29	62607	ENGL_T1	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
10/16/2024 20:29	16302	ALPA_T2	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
10/16/2024 20:29	40902	JESH_T1	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
10/16/2024 20:30	10702	CATA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:30	16301	ALPA_T1	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
10/16/2024 20:30	65503	MOJO_T2	3	129	126	0.1	0.15	0.05	-0.4	-0.43	0	0	0	0	0	0
10/16/2024 20:30	63803	HEMP_T1	0	0	0	0	0	0	0.58	0.52	0	0	0	0	0	0
10/16/2024 20:30	42903	MIDD_T2	2	2	0	0.3	0.85	0.55	0	0	0	0	0	0	0	0
10/16/2024 20:30	66501	SMAN_T2	2	14	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/16/2024 20:30	66502	SMAN_T2	0	5	5	0	0.14	0.14	-0.29	-0.14	0	0	0	0	0	0
10/16/2024 20:30	42902	MIDD_T2	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
10/16/2024 20:30	43302	WATS_T2	4	4	0	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
10/16/2024 20:30	43304	WATS_T2	0	0	0	0	0	0	-1.23	-0.54	0	0	0	0	0	0
10/16/2024 20:30	46004	BERW_T2	0	0	0	0	0	0	-0.32	-0.22	0	0	0	0	0	0
10/16/2024 20:30	60102	COCA_T1	0	0	0	0	0	0	-0.42	-0.1	2	2	0	1200	1200	0
10/16/2024 20:30	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:30	10705	CATA_T2	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
10/16/2024 20:30	10705	CATA_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
10/16/2024 20:30	10705	CATA_T2	0	0	0	0	0	0	-0.12	-0.08	0	0	0	0	0	0
10/16/2024 20:30	10705	CATA_T2	0	0	0	0	0	0	-0.12	-0.04	0	0	0	0	0	0
10/16/2024 20:30	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
10/16/2024 20:30	66504	SMAN_T2	0	0	0	0	0	0	-0.97	-1.11	0	0	0	0	0	0
10/16/2024 20:30	60201	ATGL_T2	12	90	78	0.14	0.32	0.18	-0.16	-0.21	0	0	0	0	0	0
10/16/2024 20:30	20603	GRWO_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
10/16/2024 20:30	10701	CATA_T2	1	1	0	0.7	2.6	1.9	0	0	0	0	0	0	0	0
10/16/2024 20:30	43301	WATS_T2	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
10/16/2024 20:30	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:30	41901	REED_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
10/16/2024 20:30	66503	SMAN_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:30	63804	HEMP_T1	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
10/16/2024 20:30	67505	WEWI_T1	0	0	0	0	0	0	-0.21	-0.12	1	1	0	900	900	0
10/16/2024 20:30	42701	AUGU_T1	1	1	0	0.7	0.8	0.1	0	0	2	2	0	1800	1800	0
10/16/2024 20:30	65502	MOJO_T2	153	282	129	0.12	0.24	0.12	0	0	0	0	0	0	0	0
10/16/2024 20:30	54504	ENOL_T2	0	0	0	0	0	0	-1.15	-1.15	1	1	0	600	600	0
10/16/2024 20:30	13101	NHAM_T1	0	0	0	0	0	0	-3.19	-3.26	2	2	0	2400	2400	0
10/16/2024 20:30	15203	SFAR_T2	0	0	0	0	0	0	-1.37	-1.38	0	0	0	0	0	0
10/16/2024 20:30	53501	EVIL_T2	1	1	0	0.1	0.2	0.1	-0.85	-0.76	1	1	0	600	600	0
10/16/2024 20:30	48302	ORWI_T2	0	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0
10/16/2024 20:30	66505	SMAN_T2	3	3	0	1.67	2.1	0.43	0	0	0	0	0	0	0	0
10/16/2024 20:30	46101	MACI_T2	0	0	0	0	0	0	-0.56	-0.58	1	1	0	1200	1200	0
10/16/2024 20:31	45501	DERR_T2	2	1	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
10/16/2024 20:31	50103	HARR_T3	2	2	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
10/16/2024 20:31	58402	MORO_T1	0	0	0	0	0	0	-0.2	-0.18	2	2	0	1500	1500	0
10/16/2024 20:31	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:31	66505	SMAN_T2	3	3	0	1.67	2.1	0.43	0	0	0	0	0	0	0	0
10/16/2024 20:31	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	-1.3	-1.32	1	1	0	600	600	0
10/16/2024 20:31	51304	WIND_T2	0	0	0	0	0	0	0.4	0.36	0	0	0	0	0	0
10/16/2024 20:31	59101	WALK_T2	0	0	0	0	0	0	1.15	1.1	0	0	0	0	0	0
10/16/2024 20:31	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:31	63601	LETO_T1	0	0	0	0	0	0	0.95	0.95	1	1	0	900	900	0
10/16/2024 20:31	44801	EDAN_T2	197	261	64	0.56	0.67	0.11	0	0	0	0	0	0	0	0
10/16/2024 20:31	44802	EDAN_T2	0	1	1	0	0.2	0.2	-0.93	-0.93	0	0	0	0	0	0
10/16/2024 20:31	50105	HARR_T3	6	6	0	6.38	6.15	-0.23	0	0	0	0	0	0	0	0
10/16/2024 20:31	45902	AUBU_T1	0	0	0	0	0	0	0.29	0.28	1	1	0	600	600	0
10/16/2024 20:31	50201	HARR_T3	1	1	0	0.9	1.1	0.2	0	0	1	1	0	1200	1200	0
10/16/2024 20:31	57203	ROSS_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
10/16/2024 20:31	67103	SPRI_T1	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
10/16/2024 20:31	57201	ROSS_T1	7	22	15	0.19	0.23	0.04	-0.95	-0.91	0	0	0	0	0	0
10/16/2024 20:31	53501	EVIL_T2	1	1	0	0.1	0.2	0.1	-0.85	-0.76	1	1	0	600	600	0
10/16/2024 20:31	50102	HARR_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 20:31	13503	MCMI_T2	0	0	0	0	0	0	0.04	0.11	0	0	0	0	0	0
10/16/2024 20:31	63602	LETO_T1	0	65	65	0	0.12	0.12	0	0	0	0	0	0	0	0
10/16/2024 20:31	45502	DERR_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
10/16/2024 20:31	66504	SMAN_T2	0	0	0	0	0	0	-0.48	-0.56	0	0	0	0	0	0
10/16/2024 20:31	66501	SMAN_T2	2	14	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/16/2024 20:31	66502	SMAN_T2	0	5	5	0	0.14	0.14	-0.29	-0.14	0	0	0	0	0	0
10/16/2024 20:31	67605	WARW_T1	3	12	9	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:31	67503	WEWI_T2	1	1	0	8	8.2	0.2	-0.28	-0.29	0	0	0	0	0	0
10/16/2024 20:31	66503	SMAN_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:31	50107	HARR_T3	1	1	0	9	8	-1	0	0	0	0	0	0	0	0
10/16/2024 20:31	62607	ENGL_T1	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
10/16/2024 20:31	67502	WEWI_T2	21	193	172	0.12	0.26	0.14	-0.47	-0.4	0	0	0	0	0	0
10/16/2024 20:31	11202	ELHE_T2	0	0	0	0	0	0	0.4	0.39	1	1	0	1200	1200	0
10/16/2024 20:32	57402	SPAN_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
10/16/2024 20:32	16102	BING_T2	16	17	1	0.25	0.36	0.11	0	0	0	0	0	0	0	0
10/16/2024 20:32	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:32	16302	ALPA_T2	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
10/16/2024 20:32	13302	ORVI_T2	0	0	0	0	0	0	1.34	1.32	0	0	0	0	0	0
10/16/2024 20:32	16301	ALPA_T1	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
10/16/2024 20:32	53501	EVIL_T2	1	1	0	0.1	0.2	0.1	-0.85	-0.76	1	1	0	600	600	0
10/16/2024 20:32	43304	WATS_T2	0	0	0	0	0	0	-0.62	-0.27	0	0	0	0	0	0
10/16/2024 20:32	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:32	63501	HEID_TBK1-2	30	37	7	0.21	0.47	0.26	0.36	0.35	0	0	0	0	0	0
10/16/2024 20:32	43301	WATS_T2	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
10/16/2024 20:32	46801	HEPB_T2	0	2	2	0	0.15	0.15	0.49	0.49	0	0	0	0	0	0
10/16/2024 20:32	51604	DUKE_T2	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
10/16/2024 20:32	43302	WATS_T2	4	4	0	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
10/16/2024 20:32	45702	LIND_T2	1	1	0	0.3	0.3	0	-0.52	-0.52	0	0	0	0	0	0
10/16/2024 20:32	41901	REED_T1	3	6	3	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
10/16/2024 20:32	14204	EALL_T2	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
10/16/2024 20:32	67501	WEWI_T1	0	0	0	0	0	0	-0.73	-0.76	0	0	0	0	0	0
10/16/2024 20:32	66501	SMAN_T2	2	14	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/16/2024 20:32	40702	FFLD_T1	185	183	-2	0.48	0.55	0.07	0	0	0	0	0	0	0	0
10/16/2024 20:32	44801	EDAN_T2	197	261	64	0.56	0.67	0.11	-3.34	-3.38	0	0	0	0	0	0
10/16/2024 20:32	66502	SMAN_T2	0	5	5	0	0.14	0.14	-0.29	-0.14	0	0	0	0	0	0
10/16/2024 20:32	64802	MONE_T2	0	13	13	0	0.15	0.15	0.09	0.18	0	0	0	0	0	0
10/16/2024 20:32	64801	MONE_T2	0	10	10	0	0.15	0.15	0	0	0	0	0	0	0	0
10/16/2024 20:32	66503	SMAN_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:32	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/16/2024 20:32	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:32	40701	FFLD_T1	77	77	0	0.61	0.75	0.14	0	0	0	0	0	0	0	0
10/16/2024 20:32	46205	DANV_T2	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
10/16/2024 20:32	66505	SMAN_T2	3	3	0	1.67	2.1	0.43	-0.43	-0.46	1	1	0	900	900	0
10/16/2024 20:32	64902	MILL_T2	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
10/16/2024 20:32	40703	FFLD_T1	4	4	0	0.83	0.95	0.12	0	0	0	0	0	0	0	0
10/16/2024 20:32	44802	EDAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 20:32	18001	ZION_T1	2	2	0	9.55	9.6	0.05	0	0	0	0	0	0	0	0
10/16/2024 20:32	16103	BING_T2	0	0	0	0	0	0	-1.07	-1.08	2	2	0	1500	1500	0
10/16/2024 20:33	64902	MILL_T2	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
10/16/2024 20:33	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:33	55508	HERS_T2	2	2	0	1.7	2	0.3	-2.64	-2.64	1	1	0	1200	1200	0
10/16/2024 20:33	45802	HEGI_T2	45	48	3	1.07	2.19	1.12	0.37	0.34	0	0	0	0	0	0
10/16/2024 20:33	43302	WATS_T2	4	4	0	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
10/16/2024 20:33	41901	REED_T1	3	6	3	0.17	0.15	-0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/16/2024 20:33	40902	JESH_T1	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
10/16/2024 20:33	51603	DUKE_T1	0	2	2	0	0.15	0.15	83.96	83.96	0	0	0	0	0	0
10/16/2024 20:33	11804	FRAN_T1	0	0	0	0	0	0	0.55	0.6	0	0	0	0	0	0
10/16/2024 20:33	40602	PIGR_T1	1	1	0	1.9	1.6	-0.3	0	0	0	0	0	0	0	0
10/16/2024 20:33	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:33	10702	CATA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:33	14204	EALL_T2	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
10/16/2024 20:33	51306	WIND_T2	0	0	0	0	0	0	0.23	0.13	0	0	0	0	0	0
10/16/2024 20:33	10705	CATA_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
10/16/2024 20:33	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:33	67402	WAKE_T2	0	0	0	0	0	0	0.16	0.2	0	0	0	0	0	0
10/16/2024 20:33	40901	JESH_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/16/2024 20:33	45702	LIND_T2	1	1	0	0.3	0.3	0	-0.52	-0.52	0	0	0	0	0	0
10/16/2024 20:33	54601	SUMM_T2	1	5	4	0.5	0.28	-0.22	-3.88	-3.83	4	4	0	4200	4200	0
10/16/2024 20:33	10701	CATA_T2	1	1	0	0.7	2.6	1.9	0	0	0	0	0	0	0	0
10/16/2024 20:33	43304	WATS_T2	0	0	0	0	0	0	-0.62	-0.27	0	0	0	0	0	0
10/16/2024 20:34	44703	MUNC_T2	2	2	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:34	67201	TEHI_T1	0	0	0	0	0	0	-0.01	0.84	1	0	-1	900	0	-900
10/16/2024 20:34	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:34	50102	HARR_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 20:34	67502	WEWI_T2	21	193	172	0.12	0.26	0.14	0	0	0	0	0	0	0	0
10/16/2024 20:34	50107	HARR_T3	1	1	0	9	8	-1	0	0	0	0	0	0	0	0
10/16/2024 20:34	44505	HAMI_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
10/16/2024 20:34	11301	EMMA_T1	0	0	0	0	0	0	-0.89	-0.91	0	0	0	0	0	0
10/16/2024 20:34	66501	SMAN_T2	2	14	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/16/2024 20:34	44502	HAMI_T2	1	1	0	3.3	3.5	0.2	0	0	0	0	0	0	0	0
10/16/2024 20:34	66505	SMAN_T2	3	3	0	1.67	2.1	0.43	0	0	0	0	0	0	0	0
10/16/2024 20:34	44702	MUNC_T2	148	149	1	0.43	0.46	0.03	0	0	0	0	0	0	0	0
10/16/2024 20:34	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:34	66503	SMAN_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:34	50103	HARR_T3	2	2	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
10/16/2024 20:34	50201	HARR_T3	1	1	0	0.9	1.1	0.2	0	0	1	1	0	1200	1200	0
10/16/2024 20:34	50105	HARR_T3	6	6	0	6.38	6.15	-0.23	0	0	0	0	0	0	0	0
10/16/2024 20:34	66502	SMAN_T2	0	5	5	0	0.14	0.14	-0.29	-0.14	0	0	0	0	0	0
10/16/2024 20:34	51602	DUKE_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
10/16/2024 20:34	44701	MUNC_T2	84	113	29	0.18	0.2	0.02	0	0	0	0	0	0	0	0
10/16/2024 20:34	67503	WEWI_T2	1	1	0	8	8.2	0.2	-0.28	-0.29	0	0	0	0	0	0
10/16/2024 20:34	45802	HEGI_T2	45	48	3	1.07	2.19	1.12	0	0	0	0	0	0	0	0
10/16/2024 20:35	10705	CATA_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
10/16/2024 20:35	20401	ASHF_T2	5	5	0	0.42	0.48	0.06	0	0	0	0	0	0	0	0
10/16/2024 20:35	62605	ENGL_T1	0	0	0	0	0	0	-1.76	-1.72	0	0	0	0	0	0
10/16/2024 20:35	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:35	20403	ASHF_T2	0	0	0	0	0	0	0.09	0.18	0	0	0	0	0	0
10/16/2024 20:35	63501	HEID_TBK1-2	30	37	7	0.21	0.47	0.26	0.72	0.69	0	0	0	0	0	0
10/16/2024 20:35	63801	HEMP_T1	0	0	0	0	0	0	-0.29	-0.15	0	0	0	0	0	0
10/16/2024 20:35	40703	FFLD_T1	4	4	0	0.83	0.95	0.12	0	0	0	0	0	0	0	0
10/16/2024 20:35	66501	SMAN_T2	2	14	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/16/2024 20:35	66502	SMAN_T2	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
10/16/2024 20:35	53501	EVIL_T2	1	1	0	0.1	0.2	0.1	-0.85	-0.76	1	1	0	600	600	0
10/16/2024 20:35	67605	WARW_T1	3	12	9	0.43	0.33	-0.1	-1.08	-1.07	0	0	0	0	0	0
10/16/2024 20:35	66504	SMAN_T2	0	0	0	0	0	0	-0.48	-0.56	0	0	0	0	0	0
10/16/2024 20:35	41901	REED_T1	3	6	3	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
10/16/2024 20:35	67402	WAKE_T2	0	0	0	0	0	0	0.16	0.2	0	0	0	0	0	0
10/16/2024 20:35	51301	WIND_T1	0	0	0	0	0	0	-0.13	-0.09	0	0	0	0	0	0
10/16/2024 20:35	42701	AUGU_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:35	63804	HEMP_T1	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
10/16/2024 20:35	40702	FFLD_T1	185	183	-2	0.48	0.55	0.07	-0.96	-0.91	1	1	0	1200	1200	0
10/16/2024 20:35	40701	FFLD_T1	77	77	0	0.61	0.75	0.14	0	0	0	0	0	0	0	0
10/16/2024 20:35	66503	SMAN_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:35	10701	CATA_T2	1	1	0	0.7	2.6	1.9	0	0	0	0	0	0	0	0
10/16/2024 20:35	60801	BUCK_T1	0	11	11	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:35	44301	BEAV_T2	0	0	0	0	0	0	-1.95	-1.84	2	2	0	1200	1200	0
10/16/2024 20:35	46801	HEPB_T2	0	2	2	0	0.15	0.15	0.49	0.49	0	0	0	0	0	0
10/16/2024 20:35	10702	CATA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:35	66505	SMAN_T2	3	3	0	1.67	2.1	0.43	0	0	0	0	0	0	0	0
10/16/2024 20:35	60803	BUCK_T1	0	10	10	0	0.18	0.18	0	0	0	0	0	0	0	0
10/16/2024 20:36	52004	LING_T2	2	2	0	5.75	6.05	0.3	0.1	0.16	0	0	0	0	0	0
10/16/2024 20:36	66502	SMAN_T2	0	5	5	0	0.14	0.14	-0.28	-0.29	0	0	0	0	0	0
10/16/2024 20:36	43801	SWIL_T1	2	2	0	3.2	3.25	0.05	0	0	0	0	0	0	0	0
10/16/2024 20:36	66505	SMAN_T2	3	3	0	1.67	2.1	0.43	0	0	0	0	0	0	0	0
10/16/2024 20:36	66501	SMAN_T2	2	14	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/16/2024 20:36	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:36	43802	SWIL_T1	0	0	0	0	0	0	-0.22	-0.22	1	1	0	600	600	0
10/16/2024 20:36	52002	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 20:36	46803	HEPB_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
10/16/2024 20:36	60102	COCA_T1	0	0	0	0	0	0	-0.1	0.02	2	2	0	1200	1200	0
10/16/2024 20:36	60101	COCA_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
10/16/2024 20:36	52001	LING_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
10/16/2024 20:36	13303	ORVI_T1	0	0	0	0	0	0	-0.48	-0.54	0	0	0	0	0	0
10/16/2024 20:36	57201	ROSS_T1	7	22	15	0.19	0.23	0.04	-0.95	-0.91	0	0	0	0	0	0
10/16/2024 20:36	10701	CATA_T2	1	1	0	0.7	2.6	1.9	0	0	0	0	0	0	0	0
10/16/2024 20:36	10705	CATA_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
10/16/2024 20:36	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:36	66503	SMAN_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:36	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:36	43302	WATS_T2	4	4	0	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
10/16/2024 20:36	52006	LING_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
10/16/2024 20:36	46101	MACI_T2	0	0	0	0	0	0	-0.56	-0.58	1	1	0	1200	1200	0
10/16/2024 20:36	46801	HEPB_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/16/2024 20:36	10702	CATA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:36	59101	WALK_T2	0	0	0	0	0	0	1.15	1.1	0	0	0	0	0	0
10/16/2024 20:37	44801	EDAN_T2	197	261	64	0.56	0.67	0.11	0	0	0	0	0	0	0	0
10/16/2024 20:37	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	-0.56	-0.5	1	1	0	1200	1200	0
10/16/2024 20:37	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:37	65604	QVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 20:37	65603	NEFF_T2	25	60	35	0.14	0.19	0.05	-2.23	-1.62	2	1	-1	1800	1200	-600
10/16/2024 20:37	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:37	64802	MONE_T2	0	13	13	0	0.15	0.15	0.18	0.23	0	0	0	0	0	0
10/16/2024 20:37	65601	QVIL_T2	13	104	91	0.13	0.25	0.12	0	0	0	0	0	0	0	0
10/16/2024 20:37	58401	MORO_T1	0	0	0	0	0	0	-2.44	-2.44	2	2	0	1200	1200	0
10/16/2024 20:37	67401	WAKE_T2	0	0	0	0	0	0	-0.89	-0.89	0	0	0	0	0	0
10/16/2024 20:37	65603	QVIL_T2	0	1	1	0	0.1	0.1	0.3	0.3	0	0	0	0	0	0
10/16/2024 20:37	65602	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 20:37	64801	MONE_T2	0	10	10	0	0.15	0.15	0	0	0	0	0	0	0	0
10/16/2024 20:37	57403	SPAN_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
10/16/2024 20:37	44802	EDAN_T2	0	1	1	0	0.2	0.2	-1.86	-1.83	0	0	0	0	0	0
10/16/2024 20:37	40901	JESH_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/16/2024 20:37	40902	JESH_T1	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
10/16/2024 20:37	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:37	41901	REED_T1	3	6	3	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
10/16/2024 20:37	57401	SPAN_T1	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
10/16/2024 20:37	64704	LITI_T1	0	0	0	0	0	0	0.78	0.85	0	0	0	0	0	0
10/16/2024 20:38	13704	SCHN_T2	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
10/16/2024 20:38	62606	ENGL_T1	0	0	0	0	0	0	-1.03	-0.98	1	1	0	900	900	0
10/16/2024 20:38	66503	SMAN_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:38	50502	MECH_T1	131	166	35	0.65	0.7	0.05	0	0	0	0	0	0	0	0
10/16/2024 20:38	53501	EVIL_T2	1	1	0	0.1	0.2	0.1	-0.76	-0.8	1	1	0	600	600	0
10/16/2024 20:38	64203	KINZ_T1	0	6	6	0	0.15	0.15	-0.43	-0.42	1	1	0	600	600	0
10/16/2024 20:38	66505	SMAN_T2	3	3	0	1.67	2.1	0.43	0	0	0	0	0	0	0	0
10/16/2024 20:38	49803	UNIV_T1	1	1	0	4.7	4.4	-0.3	0	0	0	0	0	0	0	0
10/16/2024 20:38	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:38	64202	KINZ_T1	8	10	2	0.21	0.47	0.26	0	0	0	0	0	0	0	0
10/16/2024 20:38	64204	KINZ_T1	20	36	16	0.21	0.29	0.08	0	0	0	0	0	0	0	0
10/16/2024 20:38	66502	SMAN_T2	0	5	5	0	0.14	0.14	-0.14	-0.15	0	0	0	0	0	0
10/16/2024 20:38	49804	UNIV_T1	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
10/16/2024 20:38	50501	MECH_T1	4	4	0	1.35	1.63	0.28	0	0	0	0	0	0	0	0
10/16/2024 20:38	66501	SMAN_T2	2	14	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/16/2024 20:38	50506	MECH_T1	0	1	1	0	0.1	0.1	-0.27	-0.26	0	0	0	0	0	0
10/16/2024 20:38	65802	RTWN_T2	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
10/16/2024 20:38	64201	KINZ_T1	7	7	0	0.39	0.61	0.22	0	0	0	0	0	0	0	0
10/16/2024 20:38	17001	RIRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:39	54603	SUMM_T2	0	0	0	0	0	0	-0.54	-0.53	1	1	0	900	900	0
10/16/2024 20:39	51306	WIND_T2	0	0	0	0	0	0	0.04	0.09	0	0	0	0	0	0
10/16/2024 20:39	65601	QVIL_T2	13	104	91	0.13	0.25	0.12	0	0	0	0	0	0	0	0
10/16/2024 20:39	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:39	67503	WEWI_T2	1	1	0	8	8.2	0.2	-0.29	-0.26	0	0	0	0	0	0
10/16/2024 20:39	66505	SMAN_T2	3	3	0	1.67	2.1	0.43	0	0	0	0	0	0	0	0
10/16/2024 20:39	57203	ROSS_T1	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
10/16/2024 20:39	66503	SMAN_T2	0	5	5	0	0.1	0.1	0.35	0.31	0	0	0	0	0	0
10/16/2024 20:39	10702	CATA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:39	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.22	1	1	0	600	600	0
10/16/2024 20:39	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:39	65604	QVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 20:39	65603	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:39	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:39	57201	ROSS_T1	7	22	15	0.19	0.23	0.04	0	0	0	0	0	0	0	0
10/16/2024 20:39	65602	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 20:39	10701	CATA_T2	1	1	0	0.7	2.6	1.9	-0.82	-0.79	1	1	0	1200	1200	0
10/16/2024 20:39	58402	MORO_T1	0	0	0	0	0	0	-0.18	-0.17	2	2	0	1500	1500	0
10/16/2024 20:39	66502	SMAN_T2	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
10/16/2024 20:39	43304	WATS_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
10/16/2024 20:39	66501	SMAN_T2	2	14	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/16/2024 20:39	44502	HAMI_T2	1	1	0	3.3	3.5	0.2	0	0	0	0	0	0	0	0
10/16/2024 20:39	54601	SUMM_T2	1	5	4	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
10/16/2024 20:39	67502	WEWI_T2	21	193	172	0.12	0.26	0.14	0	0	0	0	0	0	0	0
10/16/2024 20:39	43302	WATS_T2	4	4	0	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
10/16/2024 20:40	65503	MOJO_T2	3	129	126	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/16/2024 20:40	63804	HEMP_T1	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
10/16/2024 20:40	55105	WERT_T1	0	0	0	0	0	0	-0.71	-0.72	1	1	0	900	900	0
10/16/2024 20:40	62605	ENGL_T1	0	0	0	0	0	0	-1.72	-1.74	0	0	0	0	0	0
10/16/2024 20:40	64305	LINC_T1	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
10/16/2024 20:40	52006	LING_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
10/16/2024 20:40	63801	HEMP_T1	0	0	0	0	0	0	-0.15	-0.27	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/16/2024 20:40	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.22	1	1	0	600	600	0
10/16/2024 20:40	64303	LINC_T1	0	0	0	0	0	0	-0.24	-0.28	0	0	0	0	0	0
10/16/2024 20:40	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:40	52002	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 20:40	43302	WATS_T2	4	4	0	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
10/16/2024 20:40	65502	MOJO_T2	153	282	129	0.12	0.24	0.12	-1.04	-1.01	0	0	0	0	0	0
10/16/2024 20:40	67605	WARW_T1	3	12	9	0.43	0.33	-0.1	-1.07	-1.09	0	0	0	0	0	0
10/16/2024 20:40	52004	LING_T2	2	2	0	5.75	6.05	0.3	0.16	0.12	0	0	0	0	0	0
10/16/2024 20:41	57205	ROSS_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
10/16/2024 20:41	59301	MCAL_T1	3	3	0	1.23	1.03	-0.2	-1.55	-1.55	0	0	0	0	0	0
10/16/2024 20:41	63803	HEMP_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
10/16/2024 20:41	60801	BUCK_T1	0	11	11	0	0.1	0.1	-0.26	-0.26	0	0	0	0	0	0
10/16/2024 20:41	60803	BUCK_T1	0	10	10	0	0.18	0.18	0	0	0	0	0	0	0	0
10/16/2024 20:41	50502	MECH_T1	131	166	35	0.65	0.7	0.05	0	0	0	0	0	0	0	0
10/16/2024 20:41	59302	MCAL_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/16/2024 20:41	50501	MECH_T1	4	4	0	1.35	1.63	0.28	0	0	0	0	0	0	0	0
10/16/2024 20:41	57201	ROSS_T1	7	22	15	0.19	0.23	0.04	0	0	0	0	0	0	0	0
10/16/2024 20:41	67805	WLAN_T1	145	455	310	0.17	0.32	0.15	-1.46	-1.44	0	0	0	0	0	0
10/16/2024 20:41	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/16/2024 20:41	65502	MOJO_T2	153	282	129	0.12	0.24	0.12	0	0	0	0	0	0	0	0
10/16/2024 20:41	44301	BEAV_T2	0	0	0	0	0	0	-0.92	-0.82	1	1	0	600	600	0
10/16/2024 20:41	63804	HEMP_T1	1	1	0	5.5	5.2	-0.3	0.71	0.7	0	0	0	0	0	0
10/16/2024 20:41	40802	EXCH_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
10/16/2024 20:41	64904	MILL_T1	0	0	0	0	0	0	0.47	0.42	0	0	0	0	0	0
10/16/2024 20:41	50505	MECH_T1	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
10/16/2024 20:41	50506	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:41	65503	MOJO_T2	3	129	126	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/16/2024 20:42	55002	NEWP_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 20:42	50201	HARR_T3	1	1	0	0.9	1.1	0.2	0	0	1	1	0	1200	1200	0
10/16/2024 20:42	55001	NEWP_T1	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
10/16/2024 20:42	57403	SPAN_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
10/16/2024 20:42	50202	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:42	65601	QVIL_T2	13	104	91	0.13	0.25	0.12	0	0	0	0	0	0	0	0
10/16/2024 20:42	50107	HARR_T3	1	1	0	9	8	-1	0	0	0	0	0	0	0	0
10/16/2024 20:42	65604	QVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 20:42	50103	HARR_T3	2	2	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
10/16/2024 20:42	50105	HARR_T3	6	6	0	6.38	6.15	-0.23	0	0	0	0	0	0	0	0
10/16/2024 20:42	54601	SUMM_T2	1	5	4	0.5	0.28	-0.22	-1.91	-1.93	2	2	0	2100	2100	0
10/16/2024 20:42	50102	HARR_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 20:42	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 20:42	57401	SPAN_T1	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
10/16/2024 20:42	65603	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:42	65602	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 20:44	66501	SMAN_T2	2	14	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/16/2024 20:44	24201	PROV_T3	1	1	0	6.6	6.3	-0.3	0	0	1	1	0	1200	1200	0
10/16/2024 20:44	66503	SMAN_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 20:44	66504	SMAN_T2	0	0	0	0	0	0	-0.56	-0.51	0	0	0	0	0	0
10/16/2024 20:44	66505	SMAN_T2	3	3	0	1.67	2.1	0.43	0	0	0	0	0	0	0	0
10/16/2024 20:44	24204	PROV_T3	2	2	0	2.85	2.85	0	0	0	0	0	0	0	0	0
10/16/2024 20:44	66502	SMAN_T2	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
10/16/2024 20:45	16301	ALPA_T1	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
10/16/2024 20:46	46803	HEPB_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
10/16/2024 20:46	46801	HEPB_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/16/2024 20:49	46002	BERW_T2	0	0	0	0	0	0	-1.22	-1.21	1	1	0	900	900	0
10/16/2024 20:52	59101	WALK_T2	0	0	0	0	0	0	1.28	1.16	0	0	0	0	0	0
10/16/2024 20:56	57401	SPAN_T1	2	2	0	0.65	0.85	0.2	0	0	0	0	0	0	0	0
10/16/2024 20:56	57403	SPAN_T1	0	5	5	0	0.1	0.1	0.05	0.05	0	0	0	0	0	0
10/16/2024 20:58	63804	HEMP_T1	1	1	0	5.4	5	-0.4	0	0	0	0	0	0	0	0
10/16/2024 20:58	63803	HEMP_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
10/16/2024 21:05	67605	WARW_T1	11	29	18	0.33	0.53	0.2	-1.09	-1.15	0	0	0	0	0	0
10/16/2024 21:08	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2024 21:08	41901	REED_T1	4	5	1	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
10/16/2024 21:13	67401	WAKE_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
10/16/2024 21:13	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
10/16/2024 21:18	10705	CATA_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
10/16/2024 21:18	10701	CATA_T2	1	0	-1	1.8	0	-1.8	0	0	0	0	0	0	0	0
10/16/2024 21:36	12302	LANA_T2	0	0	0	0	0	0	-1.76	-1.75	2	2	0	1500	1500	0
10/16/2024 21:44	51302	WIND_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
10/16/2024 22:06	43802	SWIL_T1	0	0	0	0	0	0	-0.26	-0.25	1	1	0	600	600	0
10/16/2024 22:06	43801	SWIL_T1	2	2	0	3.25	3.25	0	0	0	0	0	0	0	0	0
10/17/2024 1:50	16302	ALPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 7:50	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/17/2024 7:50	11604	CEAL_T1	5	5	0	1	1.46	0.46	0	0	0	0	0	0	0	0
10/17/2024 7:51	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 7:52	15201	SFAR_T1	0	1	1	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
10/17/2024 7:54	15201	SFAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 7:54	15202	SFAR_T1	0	0	0	0	0	0	-0.78	-0.76	1	1	0	1200	1200	0
10/17/2024 7:56	15201	SFAR_T1	0	1	1	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
10/17/2024 8:04	64101	BEFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 8:10	57006	WHHI_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
10/17/2024 8:10	57003	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 8:10	15201	SFAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 8:10	57004	WHHI_T2	0	0	0	0	0	0	-1.2	-1.19	0	0	0	0	0	0
10/17/2024 8:10	15202	SFAR_T1	0	0	0	0	0	0	-0.76	-0.8	1	1	0	1200	1200	0
10/17/2024 8:12	45501	DERR_T2	2	8	6	0.7	0.44	-0.26	0.9	0.91	2	2	0	1800	1800	0
10/17/2024 8:12	45502	DERR_T2	6	5	-1	0.63	0.55	-0.08	0	0	0	0	0	0	0	0
10/17/2024 8:12	15203	SFAR_T2	129	110	-19	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
10/17/2024 8:12	15204	SFAR_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
10/17/2024 8:20	55503	HERS_T1	0	0	0	0	0	0	-1.65	-1.66	1	1	0	1200	1200	0
10/17/2024 8:20	55501	HERS_T1	52	52	0	0.12	0.61	0.49	0	0	0	0	0	0	0	0
10/17/2024 8:20	55507	HERS_T1	2	9	7	0.1	0.23	0.13	0	0	0	0	0	0	0	0
10/17/2024 8:21	54206	PENN_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
10/17/2024 8:23	67604	WARW_T1	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
10/17/2024 8:23	67605	WARW_T1	8	26	18	0.23	0.33	0.1	0	0	0	0	0	0	0	0
10/17/2024 8:24	15203	SFAR_T2	109	13	-96	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
10/17/2024 8:24	15204	SFAR_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
10/17/2024 8:25	15203	SFAR_T2	109	13	-96	0.17	0.12	-0.05	-1.39	-1.38	0	0	0	0	0	0
10/17/2024 8:25	54201	PENN_T1	341	338	-3	0.64	0.58	-0.06	0	0	0	0	0	0	0	0
10/17/2024 8:25	54203	PENN_T1	424	391	-33	0.43	0.3	-0.13	-0.56	-0.59	0	0	0	0	0	0
10/17/2024 8:25	54205	PENN_T1	185	131	-54	0.31	0.33	0.02	0	0	0	0	0	0	0	0
10/17/2024 8:27	24204	PROV_T3	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
10/17/2024 8:27	15203	SFAR_T2	109	13	-96	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
10/17/2024 8:27	15204	SFAR_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
10/17/2024 8:27	24201	PROV_T3	1	1	0	6.3	6.1	-0.2	0	0	1	1	0	1200	1200	0
10/17/2024 8:29	62607	ENGL_T1	0	1	1	0	0.2	0.2	-1.19	-0.85	1	0	-1	300	0	-300
10/17/2024 8:29	62605	ENGL_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
10/17/2024 8:29	62606	ENGL_T1	0	19	19	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 8:30	63501	HEID_TBK1-2	36	39	3	0.4	0.66	0.26	-0.32	-0.29	1	1	0	900	900	0
10/17/2024 8:31	62606	ENGL_T1	0	19	19	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 8:31	62607	ENGL_T1	1	0	-1	0.2	0	-0.2	-2.38	-1.7	2	0	-2	600	0	-600
10/17/2024 8:31	45501	DERR_T2	5	4	-1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/17/2024 8:31	62605	ENGL_T1	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
10/17/2024 8:31	45502	DERR_T2	4	2	-2	0.48	0.45	-0.03	0.24	0.26	1	1	0	300	300	0
10/17/2024 8:31	54502	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
10/17/2024 8:31	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	-1.19	-1.21	1	1	0	600	600	0
10/17/2024 8:32	63501	HEID_TBK1-2	36	39	3	0.4	0.66	0.26	-0.32	-0.29	1	1	0	900	900	0
10/17/2024 8:32	45502	DERR_T2	4	2	-2	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
10/17/2024 8:32	45501	DERR_T2	5	4	-1	0.5	0.4	-0.1	0.91	0.84	2	2	0	1800	1800	0
10/17/2024 8:34	63501	HEID_TBK1-2	36	39	3	0.4	0.66	0.26	-0.32	-0.29	1	1	0	900	900	0
10/17/2024 8:35	55002	NEWP_T1	3	6	3	0.6	0.75	0.15	-0.2	-0.19	0	0	0	0	0	0
10/17/2024 8:35	55001	NEWP_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
10/17/2024 8:36	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.74	1	1	0	900	900	0
10/17/2024 8:38	55002	NEWP_T1	3	6	3	0.6	0.75	0.15	0	0	0	0	0	0	0	0
10/17/2024 8:38	55001	NEWP_T1	0	1	1	0	0.6	0.6	-0.33	-0.31	0	0	0	0	0	0
10/17/2024 8:38	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 8:38	57006	WHHI_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
10/17/2024 8:42	15201	SFAR_T1	0	0	0	0	0	0	0.05	-0.01	1	1	0	1200	1200	0
10/17/2024 8:48	64902	MILL_T2	0	0	0	0	0	0	-0.74	-0.74	1	1	0	900	900	0
10/17/2024 8:54	52502	PROG_T2	0	0	0	0	0	0	-0.58	-0.61	1	1	0	900	900	0
10/17/2024 8:57	57402	SPAN_T2	0	0	0	0	0	0	-1.22	-1.2	0	0	0	0	0	0
10/17/2024 8:58	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/17/2024 9:00	45901	AUBU_T1	0	0	0	0	0	0	0.2	-0.07	0	0	0	0	0	0
10/17/2024 9:09	52502	PROG_T2	0	0	0	0	0	0	-0.61	-0.63	1	1	0	900	900	0
10/17/2024 9:10	45901	AUBU_T1	0	0	0	0	0	0	-0.07	-0.02	0	0	0	0	0	0
10/17/2024 9:11	57006	WHHI_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
10/17/2024 9:11	57002	WHHI_T2	0	0	0	0	0	0	-1.66	-1.68	1	1	0	1200	1200	0
10/17/2024 9:12	15104	UPHA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 9:12	15103	UPHA_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
10/17/2024 9:13	10702	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:13	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:15	54505	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
10/17/2024 9:15	10705	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 9:15	54503	ENOL_T2	0	0	0	0	0	0	-0.45	-0.44	1	1	0	600	600	0
10/17/2024 9:15	10701	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/17/2024 9:15	10702	CATA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/17/2024 9:15	54502	ENOL_T2	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
10/17/2024 9:18	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.89	-0.94	1	1	0	900	900	0
10/17/2024 9:18	10701	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/17/2024 9:18	10702	CATA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/17/2024 9:23	67002	STHI_T2	1	5	4	0.3	0.24	-0.06	0.6	0.6	0	0	0	0	0	0
10/17/2024 9:23	67001	STHI_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
10/17/2024 9:24	67002	STHI_T2	1	5	4	0.3	0.24	-0.06	0.6	0.6	0	0	0	0	0	0
10/17/2024 9:24	67001	STHI_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
10/17/2024 9:26	67002	STHI_T2	1	5	4	0.3	0.24	-0.06	1.2	1.2	0	0	0	0	0	0
10/17/2024 9:26	67001	STHI_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
10/17/2024 9:27	20403	ASHF_T2	2	34	32	0.2	0.2	0	2.86	2.02	0	0	0	0	0	0
10/17/2024 9:27	20401	ASHF_T2	2	5	3	0.2	0.43	0.23	0	0	0	0	0	0	0	0
10/17/2024 9:29	53501	EVIL_T2	2	2	0	0.5	0.6	0.1	-0.35	-0.29	2	2	0	1200	1200	0
10/17/2024 9:34	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
10/17/2024 9:34	54502	ENOL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
10/17/2024 9:34	54506	ENOL_T2	0	0	0	0	0	0	0.46	0.28	1	1	0	600	600	0
10/17/2024 9:39	10705	CATA_T2	0	1	1	0	0.1	0.1	-1.01	-1.01	1	1	0	900	900	0
10/17/2024 9:39	10702	CATA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/17/2024 9:39	10701	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/17/2024 9:40	57006	WHHI_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
10/17/2024 9:40	57002	WHHI_T2	0	0	0	0	0	0	-1.64	-1.61	1	1	0	1200	1200	0
10/17/2024 9:42	57006	WHHI_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
10/17/2024 9:42	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 9:43	51301	WIND_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/17/2024 9:43	51305	WIND_T1	1	1	0	0.2	0.4	0.2	0.21	0.18	0	0	0	0	0	0
10/17/2024 9:43	51303	WIND_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/17/2024 9:45	46001	BERW_T1	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0	0
10/17/2024 9:52	67201	TEHI_T1	0	0	0	0	0	0	1.42	1.25	1	1	0	900	900	0
10/17/2024 9:56	51303	WIND_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/17/2024 9:56	51305	WIND_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/17/2024 9:56	51301	WIND_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/17/2024 10:00	50105	HARR_T3	6	6	0	5.88	6.07	0.19	0	0	0	0	0	0	0	0
10/17/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.43	0.48	0	0	0	0	0	0
10/17/2024 10:00	11601	CEAL_T1	0	1	1	0	0.2	0.2	0	0	1	1	0	1200	1200	0
10/17/2024 10:00	67503	WEWI_T2	1	1	0	8.6	8.8	0.2	-0.12	-0.2	0	0	0	0	0	0
10/17/2024 10:00	40504	CRES_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
10/17/2024 10:00	50103	HARR_T3	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
10/17/2024 10:00	51306	WIND_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
10/17/2024 10:00	50107	HARR_T3	1	1	0	8.7	8.7	0	0	0	0	0	0	0	0	0
10/17/2024 10:00	67502	WEWI_T2	2	2	0	0.55	1.05	0.5	0	0	0	0	0	0	0	0
10/17/2024 10:00	51304	WIND_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/17/2024 10:00	50201	HARR_T3	1	1	0	0.4	0.5	0.1	0	0	1	1	0	1200	1200	0
10/17/2024 10:08	67201	TEHI_T1	0	1	1	0	0.8	0.8	1.25	1.39	1	1	0	900	900	0
10/17/2024 10:09	15203	SFAR_T2	2	3	1	0.25	0.33	0.08	-1.37	-2.72	0	0	0	0	0	0
10/17/2024 10:09	15203	SFAR_T2	2	3	1	0.25	0.33	0.08	-1.37	-1.36	0	0	0	0	0	0
10/17/2024 10:09	15203	SFAR_T2	2	3	1	0.25	0.33	0.08	-2.74	-2.72	0	0	0	0	0	0
10/17/2024 10:09	15203	SFAR_T2	2	3	1	0.25	0.33	0.08	-2.74	-1.36	0	0	0	0	0	0
10/17/2024 10:09	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 10:09	67402	WAKE_T2	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
10/17/2024 10:11	42102	FRAI_T1	0	1	1	0	5.8	5.8	0	0	0	1	1	0	900	900
10/17/2024 10:13	44802	EDAN_T2	1	1	0	0.4	0.1	-0.3	-0.9	-0.82	0	0	0	0	0	0
10/17/2024 10:13	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 10:13	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.86	0.88	2	2	0	1800	1800	0
10/17/2024 10:13	44801	EDAN_T2	202	194	-8	0.72	0.66	-0.06	0	0	0	0	0	0	0	0
10/17/2024 10:15	44802	EDAN_T2	0	1	1	0	0.1	0.1	-1.8	-1.65	0	0	0	0	0	0
10/17/2024 10:15	54601	SUMM_T2	3	10	7	0.33	0.45	0.12	-6.03	-5.99	4	4	0	4200	4200	0
10/17/2024 10:15	44801	EDAN_T2	173	201	28	0.61	0.68	0.07	0	0	0	0	0	0	0	0
10/17/2024 10:15	28403	HART_T2	0	0	0	0	0	0	-1.09	-1.13	1	1	0	900	900	0
10/17/2024 10:15	54602	SUMM_T2	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 10:15	46004	BERW_T2	0	1	1	0	0	0	-0.19	-0.22	0	0	0	0	0	0
10/17/2024 10:16	44802	EDAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 10:16	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 10:16	53501	EVIL_T2	0	1	1	0	0.8	0.8	-0.01	-0.11	2	2	0	1200	1200	0
10/17/2024 10:16	63501	HEID_TBK1-2	40	47	7	0.41	0.53	0.12	-0.36	-0.33	1	1	0	900	900	0
10/17/2024 10:16	24202	PROV_T4	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/17/2024 10:16	44801	EDAN_T2	173	201	28	0.61	0.68	0.07	-1.6	-1.65	0	0	0	0	0	0
10/17/2024 10:17	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 10:17	45501	DERR_T2	0	0	0	0	0	0	0.86	0.88	2	2	0	1800	1800	0
10/17/2024 10:18	50201	HARR_T3	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/17/2024 10:18	50105	HARR_T3	6	6	0	6.15	5.95	-0.2	0	0	0	0	0	0	0	0
10/17/2024 10:18	50107	HARR_T3	1	1	0	8.7	8.7	0	0	0	0	0	0	0	0	0
10/17/2024 10:18	44802	EDAN_T2	0	1	1	0	0.1	0.1	-1.8	-1.65	0	0	0	0	0	0
10/17/2024 10:18	44801	EDAN_T2	173	201	28	0.61	0.68	0.07	0	0	0	0	0	0	0	0
10/17/2024 10:19	63501	HEID_TBK1-2	40	47	7	0.41	0.53	0.12	-1.08	-0.99	3	3	0	2700	2700	0
10/17/2024 10:20	63501	HEID_TBK1-2	40	47	7	0.41	0.53	0.12	-0.36	-0.33	1	1	0	900	900	0
10/17/2024 10:21	64904	MILL_T1	0	0	0	0	0	0	0.45	0.41	0	0	0	0	0	0
10/17/2024 10:21	65602	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/17/2024 10:21	64802	MONE_T2	2	10	8	0.3	0.2	-0.1	0.31	0.29	0	0	0	0	0	0
10/17/2024 10:21	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 10:21	58402	MORO_T1	0	0	0	0	0	0	-0.54	-0.4	4	4	0	3000	3000	0
10/17/2024 10:21	63501	HEID_TBK1-2	40	47	7	0.41	0.53	0.12	-0.33	-0.23	1	1	0	900	900	0
10/17/2024 10:21	65601	QVIL_T2	0	4	4	0	0.38	0.38	-1.12	-1.15	1	1	0	900	900	0
10/17/2024 10:23	55001	NEWP_T1	1	18	17	1.3	0.37	-0.93	-0.34	-0.32	0	0	0	0	0	0
10/17/2024 10:23	57401	SPAN_T1	2	2	0	0.95	1.05	0.1	0	0	0	0	0	0	0	0
10/17/2024 10:23	57403	SPAN_T1	21	27	6	0.25	0.33	0.08	0.03	0.03	0	0	0	0	0	0
10/17/2024 10:23	55002	NEWP_T1	6	8	2	1.23	1.09	-0.14	0	0	0	0	0	0	0	0
10/17/2024 10:24	58401	MORO_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
10/17/2024 10:24	65602	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/17/2024 10:24	65601	QVIL_T2	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
10/17/2024 10:26	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 10:26	51304	WIND_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
10/17/2024 10:27	57403	SPAN_T1	21	27	6	0.25	0.33	0.08	0.03	0.03	0	0	0	0	0	0
10/17/2024 10:27	57401	SPAN_T1	2	2	0	0.95	1.05	0.1	0	0	0	0	0	0	0	0
10/17/2024 10:28	10801	CHHI_T1	0	0	0	0	0	0	-0.89	-0.77	1	1	0	900	900	0
10/17/2024 10:29	46203	DANV_T2	1	2	1	0.2	0.45	0.25	-0.72	-0.78	0	0	0	0	0	0
10/17/2024 10:30	53501	EVIL_T2	1	3	2	0.5	0.7	0.2	-0.11	-0.15	2	2	0	1200	1200	0
10/17/2024 10:30	53502	EVIL_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
10/17/2024 10:31	51301	WIND_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 10:31	51305	WIND_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/17/2024 10:31	51303	WIND_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/17/2024 10:33	53502	EVIL_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
10/17/2024 10:33	20603	GRWO_T2	0	1	1	0	0.2	0.2	-0.65	-0.66	1	1	0	900	900	0
10/17/2024 10:33	22901	HARW_T1	0	0	0	0	0	0	-0.35	-0.34	1	1	0	1200	1200	0
10/17/2024 10:33	53501	EVIL_T2	1	3	2	0.5	0.7	0.2	-0.23	-0.3	4	4	0	2400	2400	0
10/17/2024 10:34	20603	GRWO_T2	0	1	1	0	0.2	0.2	-0.65	-0.66	1	1	0	900	900	0
10/17/2024 10:34	53501	EVIL_T2	1	3	2	0.5	0.7	0.2	-0.23	-0.3	4	4	0	2400	2400	0
10/17/2024 10:34	53502	EVIL_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
10/17/2024 10:35	44703	MUNC_T2	2	2	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
10/17/2024 10:35	44702	MUNC_T2	48	17	-31	0.18	0.18	0	0	0	0	0	0	0	0	0
10/17/2024 10:35	65503	MOJO_T2	0	4	4	0	0.45	0.45	-0.03	-0.03	0	0	0	0	0	0
10/17/2024 10:35	44701	MUNC_T2	3	3	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
10/17/2024 10:36	64305	LINC_T1	0	1	1	0	0.1	0.1	-0.24	-0.13	0	0	0	0	0	0
10/17/2024 10:36	55001	NEWP_T1	5	41	36	0.62	0.35	-0.27	0	0	0	0	0	0	0	0
10/17/2024 10:36	55002	NEWP_T1	7	9	2	1.16	1.19	0.03	-0.21	-0.19	0	0	0	0	0	0
10/17/2024 10:37	67002	STHI_T2	9	14	5	0.24	0.28	0.04	1.18	1.18	0	0	0	0	0	0
10/17/2024 10:37	52501	PROG_T1	1	3	2	0.1	0.17	0.07	0.49	0.5	1	1	0	300	300	0
10/17/2024 10:37	67001	STHI_T2	4	7	3	0.18	0.2	0.02	0	0	0	0	0	0	0	0
10/17/2024 10:38	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/17/2024 10:38	15703	TANN_T2	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
10/17/2024 10:38	67002	STHI_T2	9	14	5	0.24	0.28	0.04	0.59	0.59	0	0	0	0	0	0
10/17/2024 10:38	67001	STHI_T2	4	7	3	0.18	0.2	0.02	0.08	0.08	0	0	0	0	0	0
10/17/2024 10:39	67002	STHI_T2	9	14	5	0.24	0.28	0.04	0.59	0.59	0	0	0	0	0	0
10/17/2024 10:39	13701	SCHN_T2	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/17/2024 10:39	15703	TANN_T2	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
10/17/2024 10:39	67001	STHI_T2	4	7	3	0.18	0.2	0.02	0.08	0.08	0	0	0	0	0	0
10/17/2024 10:39	13704	SCHN_T2	0	1	1	0	0.1	0.1	-0.31	-0.32	0	0	0	0	0	0
10/17/2024 10:39	58401	MORO_T1	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
10/17/2024 10:39	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
10/17/2024 10:40	67002	STHI_T2	9	14	5	0.24	0.28	0.04	1.18	1.18	0	0	0	0	0	0
10/17/2024 10:40	67001	STHI_T2	4	7	3	0.18	0.2	0.02	0.08	0.08	0	0	0	0	0	0
10/17/2024 10:41	67002	STHI_T2	9	14	5	0.24	0.28	0.04	0	0	0	0	0	0	0	0
10/17/2024 10:41	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
10/17/2024 10:41	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/17/2024 10:41	67001	STHI_T2	4	7	3	0.18	0.2	0.02	0.08	0.08	0	0	0	0	0	0
10/17/2024 10:41	15703	TANN_T2	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
10/17/2024 10:41	45902	AUBU_T1	0	1	1	0	1.5	1.5	-0.66	-0.59	1	1	0	600	600	0
10/17/2024 10:41	67605	WARW_T1	35	32	-3	0.47	0.5	0.03	-1.1	-0.97	0	0	0	0	0	0
10/17/2024 10:42	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/17/2024 10:42	67605	WARW_T1	35	32	-3	0.47	0.5	0.03	0	0	0	0	0	0	0	0
10/17/2024 10:42	45902	AUBU_T1	0	1	1	0	1.5	1.5	-0.66	-0.59	1	1	0	600	600	0
10/17/2024 10:43	16102	BING_T2	9	11	2	0.28	0.45	0.17	0	0	0	0	0	0	0	0
10/17/2024 10:43	67605	WARW_T1	35	32	-3	0.47	0.5	0.03	0	0	0	0	0	0	0	0
10/17/2024 10:43	67603	WARW_T1	0	1	1	0	0.3	0.3	0.02	0.03	0	0	0	0	0	0
10/17/2024 10:43	16103	BING_T2	0	1	1	0	0.2	0.2	-1.01	-1.01	2	2	0	1500	1500	0
10/17/2024 10:44	64602	LEOL_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
10/17/2024 10:45	48901	FOSP_T2	0	0	0	0	0	0	-0.23	-0.18	2	2	0	1200	1200	0
10/17/2024 10:46	54504	ENOL_T2	0	0	0	0	0	0	-1.16	-1.14	1	1	0	600	600	0
10/17/2024 10:46	54505	ENOL_T2	2	2	0	0.9	1.15	0.25	0	0	0	0	0	0	0	0
10/17/2024 10:46	48902	FOSP_T2	0	0	0	0	0	0	0.41	0.35	0	0	0	0	0	0
10/17/2024 10:46	54502	ENOL_T2	2	1	-1	0.55	1.2	0.65	0	0	0	0	0	0	0	0
10/17/2024 10:46	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 10:48	57106	SPHI_T2	3	4	1	1.8	1.58	-0.22	0	0	0	0	0	0	0	0
10/17/2024 10:48	67603	WARW_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/17/2024 10:48	67605	WARW_T1	30	35	5	0.5	0.53	0.03	-1.1	-0.97	0	0	0	0	0	0
10/17/2024 10:48	57103	SPHI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/17/2024 10:48	57101	SPHI_T2	6	7	1	0.82	1.11	0.29	0	0	0	0	0	0	0	0
10/17/2024 10:48	57104	SPHI_T2	2	7	5	1.5	0.3	-1.2	-1.8	-1.78	1	1	0	900	900	0
10/17/2024 10:51	11601	CEAL_T1	1	1	0	0.5	0.6	0.1	0	0	1	1	0	1200	1200	0
10/17/2024 10:51	11604	CEAL_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 10:54	57002	WHHI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/17/2024 10:56	57002	WHHI_T2	0	2	2	0	0.15	0.15	-1.6	-1.65	1	1	0	1200	1200	0
10/17/2024 10:57	44302	BEAV_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
10/17/2024 10:57	44301	BEAV_T2	2	2	0	0.35	0.35	0	0.65	0.75	1	1	0	600	600	0
10/17/2024 10:59	44302	BEAV_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
10/17/2024 10:59	44301	BEAV_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
10/17/2024 11:01	50201	HARR_T3	2	2	0	0.25	0.35	0.1	0	0	1	1	0	1200	1200	0
10/17/2024 11:01	50102	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 11:01	50103	HARR_T3	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
10/17/2024 11:01	50107	HARR_T3	1	1	0	8.7	9	0.3	0	0	0	0	0	0	0	0
10/17/2024 11:01	50105	HARR_T3	6	6	0	5.87	5.83	-0.04	0	0	0	0	0	0	0	0
10/17/2024 11:02	55508	HERS_T2	2	2	0	1.7	1.7	0	-2.57	-2.54	1	1	0	1200	1200	0
10/17/2024 11:03	50105	HARR_T3	6	6	0	5.87	5.83	-0.04	0	0	0	0	0	0	0	0
10/17/2024 11:03	50102	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 11:03	55501	HERS_T1	52	52	0	0.26	0.57	0.31	0	0	0	0	0	0	0	0
10/17/2024 11:03	55507	HERS_T1	4	12	8	0.13	0.2	0.07	-0.01	0	0	0	0	0	0	0
10/17/2024 11:03	55503	HERS_T1	0	0	0	0	0	0	-1.6	-1.61	1	1	0	1200	1200	0
10/17/2024 11:03	50201	HARR_T3	2	2	0	0.25	0.35	0.1	0	0	1	1	0	1200	1200	0
10/17/2024 11:03	50107	HARR_T3	1	1	0	8.7	9	0.3	0	0	0	0	0	0	0	0
10/17/2024 11:03	50103	HARR_T3	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
10/17/2024 11:04	65502	MOJO_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
10/17/2024 11:04	55508	HERS_T2	2	2	0	1.7	1.7	0	-2.57	-2.54	1	1	0	1200	1200	0
10/17/2024 11:04	65503	MOJO_T2	4	8	4	0.45	0.41	-0.04	0	0	0	0	0	0	0	0
10/17/2024 11:06	43506	WWIL_T1	1	1	0	1.7	1.3	-0.4	0	0	0	0	0	0	0	0
10/17/2024 11:06	43505	WWIL_T1	1	1	0	2.2	2	-0.2	0	0	0	0	0	0	0	0
10/17/2024 11:06	43504	WWIL_T1	14	6	-8	0.29	0.25	-0.04	0.54	0.56	0	0	0	0	0	0
10/17/2024 11:07	65502	MOJO_T2	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
10/17/2024 11:07	65503	MOJO_T2	4	8	4	0.45	0.41	-0.04	0	0	0	0	0	0	0	0
10/17/2024 11:08	57205	ROSS_T1	2	3	1	0.65	0.67	0.02	0	0	0	0	0	0	0	0
10/17/2024 11:08	67106	SPRI_T2	0	0	0	0	0	0	-2	-1.98	2	2	0	1500	1500	0
10/17/2024 11:08	57203	ROSS_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
10/17/2024 11:09	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 11:09	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 11:09	65503	MOJO_T2	4	8	4	0.45	0.41	-0.04	0	0	0	0	0	0	0	0
10/17/2024 11:10	52502	PROG_T2	2	1	-1	0.4	0.5	0.1	-0.69	-0.68	1	1	0	900	900	0
10/17/2024 11:10	57205	ROSS_T1	2	3	1	0.65	0.67	0.02	0	0	0	0	0	0	0	0
10/17/2024 11:10	57203	ROSS_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
10/17/2024 11:11	67103	SPRI_T1	0	0	0	0	0	0	-0.14	-0.11	0	0	0	0	0	0
10/17/2024 11:12	51304	WIND_T2	1	1	0	1	1.6	0.6	0	0	0	0	0	0	0	0
10/17/2024 11:12	51303	WIND_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/17/2024 11:12	57002	WHHI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/17/2024 11:12	51305	WIND_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
10/17/2024 11:12	57006	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 11:12	51302	WIND_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 11:12	51301	WIND_T1	2	5	3	0.1	0.26	0.16	0	0	0	0	0	0	0	0
10/17/2024 11:12	51306	WIND_T2	0	3	3	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0
10/17/2024 11:12	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 11:13	46004	BERW_T2	1	3	2	0.1	0.37	0.27	-0.17	-0.23	0	0	0	0	0	0
10/17/2024 11:13	60201	ATGL_T2	1	1	0	0.2	0.7	0.5	-0.09	-0.01	0	0	0	0	0	0
10/17/2024 11:13	51305	WIND_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
10/17/2024 11:13	61701	ELIZ_T1	2	2	0	2.9	3.1	0.2	0.54	0.46	0	0	0	0	0	0
10/17/2024 11:13	51301	WIND_T1	2	5	3	0.1	0.26	0.16	0	0	0	0	0	0	0	0
10/17/2024 11:13	61703	ELIZ_T1	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/17/2024 11:13	51303	WIND_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/17/2024 11:14	57002	WHHI_T2	0	2	2	0	0.15	0.15	-1.65	-1.64	1	1	0	1200	1200	0
10/17/2024 11:14	47202	FAXO_T2	0	0	0	0	0	0	-2.29	-2.31	0	0	0	0	0	0
10/17/2024 11:14	46001	BERW_T1	1	1	0	0.5	0.7	0.2	0.66	0.71	0	0	0	0	0	0
10/17/2024 11:14	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 11:15	11203	ELHE_T1	0	0	0	0	0	0	0.96	0.99	0	0	0	0	0	0
10/17/2024 11:16	46002	BERW_T2	0	1	1	0	0.2	0.2	-0.69	-0.65	1	1	0	900	900	0
10/17/2024 11:16	67001	STHI_T2	7	8	1	0.2	0.21	0.01	0	0	0	0	0	0	0	0
10/17/2024 11:16	67002	STHI_T2	14	13	-1	0.32	0.28	-0.04	0.67	0.6	0	0	0	0	0	0
10/17/2024 11:16	46004	BERW_T2	2	4	2	0.15	0.3	0.15	-0.17	-0.23	0	0	0	0	0	0
10/17/2024 11:18	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 11:20	44502	HAMI_T2	3	2	-1	1.23	1.8	0.57	-0.86	-0.88	0	0	0	0	0	0
10/17/2024 11:20	55508	HERS_T2	2	2	0	1.7	1.7	0	0	0	0	0	0	0	0	0
10/17/2024 11:20	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 11:21	41202	KENM_T2	1	2	1	1	1	0	-0.54	-0.56	0	0	0	0	0	0
10/17/2024 11:28	51305	WIND_T1	1	1	0	0.6	0.6	0	0.16	0.18	0	0	0	0	0	0
10/17/2024 11:28	51301	WIND_T1	5	2	-3	0.26	0.1	-0.16	0	0	0	0	0	0	0	0
10/17/2024 11:28	67401	WAKE_T2	2	4	2	0.35	0.4	0.05	0	0	0	0	0	0	0	0
10/17/2024 11:28	51303	WIND_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/17/2024 11:28	67402	WAKE_T2	0	0	0	0	0	0	1	0.36	0	1	1	0	600	600
10/17/2024 11:29	21206	ECAR_T2	1	1	0	6.5	6.8	0.3	0	0	0	0	0	0	0	0
10/17/2024 11:29	21204	ECAR_T2	1	1	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
10/17/2024 11:30	44505	HAMI_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
10/17/2024 11:30	44502	HAMI_T2	2	3	1	1.8	1.37	-0.43	0	0	0	0	0	0	0	0
10/17/2024 11:30	44504	HAMI_T2	0	0	0	0	0	0	-0.89	-0.91	0	0	0	0	0	0
10/17/2024 11:32	39601	LNFD_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 11:35	64202	KINZ_T1	3	5	2	0.77	0.76	-0.01	0	0	0	0	0	0	0	0
10/17/2024 11:35	64203	KINZ_T1	0	0	0	0	0	0	0.79	0.64	2	2	0	900	900	0
10/17/2024 11:35	64204	KINZ_T1	15	17	2	0.34	0.39	0.05	0	0	0	0	0	0	0	0
10/17/2024 11:36	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 11:36	54202	PENN_T2	4	4	0	0.58	0.48	-0.1	0	0	0	0	0	0	0	0
10/17/2024 11:37	54203	PENN_T1	20	20	0	0.82	0.87	0.05	0	0	0	0	0	0	0	0
10/17/2024 11:37	54201	PENN_T1	7	7	0	0.89	0.83	-0.06	0	0	0	0	0	0	0	0
10/17/2024 11:40	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 11:40	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 11:40	54202	PENN_T2	4	4	0	0.58	0.48	-0.1	0	0	0	0	0	0	0	0
10/17/2024 11:41	54203	PENN_T1	20	20	0	0.82	0.87	0.05	0.92	1.05	0	0	0	0	0	0
10/17/2024 11:41	54201	PENN_T1	7	7	0	0.89	0.83	-0.06	0	0	0	0	0	0	0	0
10/17/2024 11:44	14204	EALL_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
10/17/2024 11:46	28701	HAMI_T2	1	3	2	0.5	0.5	0	0	0	0	0	0	0	0	0
10/17/2024 11:46	28704	HAMI_T2	0	121	121	0	0.22	0.22	-0.18	-0.71	0	0	0	0	0	0
10/17/2024 11:46	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/17/2024 11:47	14204	EALL_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
10/17/2024 11:47	54502	ENOL_T2	1	4	3	0.7	0.43	-0.27	0	0	0	0	0	0	0	0
10/17/2024 11:47	54504	ENOL_T2	1	1	0	0.2	0.6	0.4	-1.16	-1.17	1	1	0	600	600	0
10/17/2024 11:47	54505	ENOL_T2	2	2	0	0.75	1.05	0.3	0	0	0	0	0	0	0	0
10/17/2024 11:47	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 11:48	67805	WLAN_T1	0	1	1	0	0.1	0.1	-0.89	-0.9	0	0	0	0	0	0
10/17/2024 11:48	67803	WLAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 11:48	67804	WLAN_T1	3	16	13	0.27	0.29	0.02	0	0	0	0	0	0	0	0
10/17/2024 11:50	46803	HEPB_T2	5	6	1	0.4	0.47	0.07	0	0	0	0	0	0	0	0
10/17/2024 11:50	46801	HEPB_T2	5	3	-2	0.6	1.03	0.43	0.54	0.54	0	0	0	0	0	0
10/17/2024 11:51	15603	NSTR_T2	1	1	0	0.6	0.6	0	-0.61	-0.61	0	0	0	0	0	0
10/17/2024 11:51	15601	NSTR_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 11:52	65503	MOJO_T2	2	11	9	0.5	0.51	0.01	0	0	0	0	0	0	0	0
10/17/2024 11:52	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 11:53	66502	SMAN_T2	1	7	6	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
10/17/2024 11:53	66501	SMAN_T2	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
10/17/2024 11:53	66504	SMAN_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/17/2024 11:54	66504	SMAN_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/17/2024 11:54	66502	SMAN_T2	1	7	6	0.5	0.27	-0.23	0.35	0.11	0	0	0	0	0	0
10/17/2024 11:54	66501	SMAN_T2	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
10/17/2024 11:56	15201	SFAR_T1	0	0	0	0	0	0	-0.01	0	1	1	0	1200	1200	0
10/17/2024 11:59	15001	BLMO_T1	8	14	6	0.29	0.39	0.1	0	0	0	0	0	0	0	0
10/17/2024 12:00	15001	BLMO_T1	10	5	-5	0.37	0.52	0.15	0	0	0	0	0	0	0	0
10/17/2024 12:00	54504	ENOL_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
10/17/2024 12:00	54501	ENOL_T2	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/17/2024 12:00	54502	ENOL_T2	4	9	5	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
10/17/2024 12:00	54505	ENOL_T2	2	2	0	1.05	1.15	0.1	-2.64	-2.68	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/17/2024 12:01	54505	ENOL_T2	2	2	0	1.05	1.15	0.1	0	0	0	0	0	0	0	0
10/17/2024 12:01	54502	ENOL_T2	4	9	5	0.38	0.36	-0.02	-2.12	-2.1	1	1	0	600	600	0
10/17/2024 12:01	54504	ENOL_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
10/17/2024 12:01	54501	ENOL_T2	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/17/2024 12:02	48902	FOSP_T2	0	0	0	0	0	0	0.24	0.14	0	0	0	0	0	0
10/17/2024 12:02	25402	LAHA_T2	0	0	0	0	0	0	-0.25	-0.33	0	0	0	0	0	0
10/17/2024 12:03	54505	ENOL_T2	2	2	0	1.05	1.15	0.1	0	0	0	0	0	0	0	0
10/17/2024 12:03	54501	ENOL_T2	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/17/2024 12:03	48901	FOSP_T2	0	0	0	0	0	0	0	-0.1	1	1	0	600	600	0
10/17/2024 12:03	54502	ENOL_T2	4	9	5	0.38	0.36	-0.02	-2.12	-2.1	1	1	0	600	600	0
10/17/2024 12:03	54504	ENOL_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
10/17/2024 12:04	64305	LINC_T1	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
10/17/2024 12:04	64303	LINC_T1	0	1	1	0	0.3	0.3	-0.22	-0.24	0	0	0	0	0	0
10/17/2024 12:05	50201	HARR_T3	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/17/2024 12:05	50103	HARR_T3	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/17/2024 12:05	50105	HARR_T3	6	6	0	5.73	5.63	-0.1	0	0	0	0	0	0	0	0
10/17/2024 12:05	50107	HARR_T3	1	1	0	8.4	8.5	0.1	0	0	0	0	0	0	0	0
10/17/2024 12:06	14203	EALL_T1	3	3	0	0.8	0.77	-0.03	0	0	0	0	0	0	0	0
10/17/2024 12:06	14201	EALL_T1	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
10/17/2024 12:06	42902	MIDD_T2	6	26	20	0.27	0.53	0.26	0.28	0.2	1	0	-1	600	0	-600
10/17/2024 12:06	58401	MORO_T1	0	2	2	0	0.3	0.3	-0.52	-0.51	0	0	0	0	0	0
10/17/2024 12:06	42903	MIDD_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
10/17/2024 12:06	44201	POIN_T1	0	62	62	0	0.17	0.17	-1.6	-1.61	2	2	0	2100	2100	0
10/17/2024 12:07	42902	MIDD_T2	6	26	20	0.27	0.53	0.26	0.55	0.41	0	0	0	0	0	0
10/17/2024 12:07	44201	POIN_T1	0	62	62	0	0.17	0.17	-4.81	-4.84	6	6	0	6300	6300	0
10/17/2024 12:07	42903	MIDD_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
10/17/2024 12:08	58401	MORO_T1	0	2	2	0	0.3	0.3	-0.51	-0.48	0	0	0	0	0	0
10/17/2024 12:09	44201	POIN_T1	0	62	62	0	0.17	0.17	-1.6	-1.61	2	2	0	2100	2100	0
10/17/2024 12:11	43802	SWIL_T1	0	1	1	0	0.2	0.2	-0.23	-0.24	1	1	0	600	600	0
10/17/2024 12:11	43801	SWIL_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
10/17/2024 12:12	57401	SPAN_T1	2	4	2	1.2	0.88	-0.32	-0.64	-0.59	1	1	0	600	600	0
10/17/2024 12:12	57403	SPAN_T1	43	74	31	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
10/17/2024 12:13	44302	BEAV_T2	4	12	8	0.55	0.7	0.15	0	0	0	0	0	0	0	0
10/17/2024 12:13	44301	BEAV_T2	10	14	4	0.44	0.49	0.05	0.09	0.09	1	1	0	600	600	0
10/17/2024 12:14	11303	EMMA_T1	9	3	-6	0.63	0.97	0.34	0	0	0	0	0	0	0	0
10/17/2024 12:14	44301	BEAV_T2	10	14	4	0.44	0.49	0.05	0	0	0	0	0	0	0	0
10/17/2024 12:14	11301	EMMA_T1	0	0	0	0	0	0	-0.8	-0.78	0	0	0	0	0	0
10/17/2024 12:14	44302	BEAV_T2	4	12	8	0.55	0.7	0.15	0.24	0.24	0	0	0	0	0	0
10/17/2024 12:15	44302	BEAV_T2	11	11	0	0.65	0.57	-0.08	0	0	0	0	0	0	0	0
10/17/2024 12:15	44301	BEAV_T2	14	12	-2	0.49	0.41	-0.08	0.09	0.09	1	1	0	600	600	0
10/17/2024 12:16	48302	ORWI_T2	2	2	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
10/17/2024 12:16	48303	ORWI_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
10/17/2024 12:18	45901	AUBU_T1	1	1	0	0.2	0.2	0	1.46	1.56	0	0	0	0	0	0
10/17/2024 12:18	45902	AUBU_T1	3	4	1	0.83	0.73	-0.1	-0.64	-0.63	1	1	0	600	600	0
10/17/2024 12:20	48901	FOSP_T2	0	0	0	0	0	0	-0.1	-0.03	1	1	0	600	600	0
10/17/2024 12:21	65601	QVIL_T2	11	76	65	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
10/17/2024 12:21	65604	QVIL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/17/2024 12:21	65603	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 12:21	65602	QVIL_T2	25	40	15	0.2	0.36	0.16	0.6	0.53	0	0	0	0	0	0
10/17/2024 12:21	22601	KIMB_T1	2	2	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
10/17/2024 12:21	22602	KIMB_T1	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
10/17/2024 12:23	44202	POIN_T2	1	1	0	0.2	0.3	0.1	-0.51	-0.61	1	1	0	1200	1200	0
10/17/2024 12:26	14801	TREI_T2	86	7	-79	0.22	0.59	0.37	0.28	0.3	0	0	0	0	0	0
10/17/2024 12:26	14802	TREI_T2	31	3	-28	0.26	0.27	0.01	0	0	0	0	0	0	0	0
10/17/2024 12:28	18001	ZION_T1	4	6	2	5	3.6	-1.4	0	0	0	0	0	0	0	0
10/17/2024 12:28	14801	TREI_T2	86	7	-79	0.22	0.59	0.37	0.28	0.3	0	0	0	0	0	0
10/17/2024 12:28	14802	TREI_T2	31	3	-28	0.26	0.27	0.01	0.37	0.31	0	0	0	0	0	0
10/17/2024 12:28	44301	BEAV_T2	14	12	-2	0.49	0.41	-0.08	0	0	0	0	0	0	0	0
10/17/2024 12:28	44302	BEAV_T2	11	11	0	0.65	0.57	-0.08	0	0	0	0	0	0	0	0
10/17/2024 12:29	51306	WIND_T2	2	4	2	0.15	0.3	0.15	0	0	0	0	0	0	0	0
10/17/2024 12:29	51302	WIND_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/17/2024 12:29	45901	AUBU_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/17/2024 12:29	45902	AUBU_T1	3	4	1	0.83	0.73	-0.1	-0.63	-0.65	1	1	0	600	600	0
10/17/2024 12:29	51304	WIND_T2	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
10/17/2024 12:31	57004	WHHI_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
10/17/2024 12:31	57003	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 12:35	22905	HARW_T1	0	1	1	0	0	0	-0.61	-0.61	0	0	0	0	0	0
10/17/2024 12:36	52502	PROG_T2	1	3	2	0.6	0.3	-0.3	-0.72	-0.72	1	1	0	900	900	0
10/17/2024 12:38	65602	QVIL_T2	39	36	-3	0.36	0.25	-0.11	0	0	0	0	0	0	0	0
10/17/2024 12:38	65603	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 12:38	65601	QVIL_T2	71	61	-10	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
10/17/2024 12:38	65604	QVIL_T2	2	3	1	0.1	0.17	0.07	0	0	0	0	0	0	0	0
10/17/2024 12:38	42903	MIDD_T2	2	0	-2	0.55	0	-0.55	1.78	1.99	0	0	0	0	0	0
10/17/2024 12:38	42902	MIDD_T2	26	8	-18	0.53	0.29	-0.24	0	0	0	0	0	0	0	0
10/17/2024 12:39	13704	SCHN_T2	1	1	0	0.2	0.5	0.3	-0.32	-0.32	0	0	0	0	0	0
10/17/2024 12:39	13701	SCHN_T2	3	7	4	0.53	0.36	-0.17	0	0	0	0	0	0	0	0
10/17/2024 12:40	65602	QVIL_T2	39	36	-3	0.36	0.25	-0.11	0	0	0	0	0	0	0	0
10/17/2024 12:40	65604	QVIL_T2	2	3	1	0.1	0.17	0.07	0	0	0	0	0	0	0	0
10/17/2024 12:40	65603	QVIL_T2	1	0	-1	0.1	0	-0.1	0.34	0.37	0	0	0	0	0	0
10/17/2024 12:40	65601	QVIL_T2	71	61	-10	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
10/17/2024 12:44	11303	EMMA_T1	3	4	1	0.97	0.83	-0.14	0	0	0	0	0	0	0	0
10/17/2024 12:44	11301	EMMA_T1	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
10/17/2024 12:44	11302	EMMA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/17/2024 12:45	23403	HONE_T1	5	1	-4	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
10/17/2024 12:47	44502	HAMI_T2	2	3	1	1.75	1.33	-0.42	0	0	0	0	0	0	0	0
10/17/2024 12:47	44505	HAMI_T2	1	4	3	0.3	0.15	-0.15	0.54	0.55	0	0	0	0	0	0
10/17/2024 12:47	64902	MILL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/17/2024 12:47	64903	MILL_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
10/17/2024 12:49	48901	FOSP_T2	0	0	0	0	0	0	-0.05	0.02	1	1	0	600	600	0
10/17/2024 12:50	59301	MCAL_T1	7	4	-3	0.7	0.78	0.08	-1.86	-1.83	1	1	0	600	600	0
10/17/2024 12:51	55002	NEWP_T1	13	14	1	0.69	0.67	-0.02	0	0	0	0	0	0	0	0
10/17/2024 12:51	55001	NEWP_T1	15	15	0	0.41	0.46	0.05	-0.32	-0.3	0	0	0	0	0	0
10/17/2024 12:51	64305	LINC_T1	1	1	0	0.6	0.5	-0.1	-0.15	-0.18	0	0	0	0	0	0
10/17/2024 12:51	64303	LINC_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/17/2024 12:52	65603	QVIL_T2	0	0	0	0	0	0	0.37	0.45	0	0	0	0	0	0
10/17/2024 12:52	65601	QVIL_T2	61	26	-35	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
10/17/2024 12:52	65604	QVIL_T2	3	1	-2	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
10/17/2024 12:52	40602	PIGR_T1	3	2	-1	0.3	0.45	0.15	-0.68	-0.7	1	1	0	600	600	0
10/17/2024 12:52	40601	PIGR_T1	182	189	7	0.51	0.6	0.09	0	0.07	0	0	0	0	0	0
10/17/2024 12:52	40603	PIGR_T1	2	2	0	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
10/17/2024 12:52	65602	QVIL_T2	36	29	-7	0.25	0.19	-0.06	0	0	0	0	0	0	0	0
10/17/2024 12:53	40601	PIGR_T1	182	189	7	0.51	0.6	0.09	0	0.07	0	0	0	0	0	0
10/17/2024 12:53	50504	MECH_T1	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/17/2024 12:53	50501	MECH_T1	7	5	-2	0.83	0.86	0.03	0.26	0.27	0	0	0	0	0	0
10/17/2024 12:53	59301	MCAL_T1	7	4	-3	0.7	0.78	0.08	-1.83	-1.64	1	1	0	600	600	0
10/17/2024 12:53	50503	MECH_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/17/2024 12:53	40603	PIGR_T1	2	2	0	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
10/17/2024 12:53	50505	MECH_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/17/2024 12:53	55002	NEWP_T1	13	14	1	0.69	0.67	-0.02	-0.22	-0.23	0	0	0	0	0	0
10/17/2024 12:53	40602	PIGR_T1	3	2	-1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
10/17/2024 12:53	50502	MECH_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
10/17/2024 12:53	50506	MECH_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
10/17/2024 12:53	55001	NEWP_T1	15	15	0	0.41	0.46	0.05	0	0	0	0	0	0	0	0
10/17/2024 12:54	55002	NEWP_T1	13	14	1	0.69	0.67	-0.02	0	0	0	0	0	0	0	0
10/17/2024 12:54	40601	PIGR_T1	182	189	7	0.51	0.6	0.09	0	0	0	0	0	0	0	0
10/17/2024 12:54	40603	PIGR_T1	2	2	0	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
10/17/2024 12:54	40602	PIGR_T1	3	2	-1	0.3	0.45	0.15	-1.36	-1.4	2	2	0	1200	1200	0
10/17/2024 12:54	55001	NEWP_T1	15	15	0	0.41	0.46	0.05	-0.3	-0.29	0	0	0	0	0	0
10/17/2024 12:55	40603	PIGR_T1	2	2	0	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
10/17/2024 12:55	55002	NEWP_T1	13	14	1	0.69	0.67	-0.02	-0.22	-0.23	0	0	0	0	0	0
10/17/2024 12:55	13701	SCHN_T2	6	9	3	0.37	0.32	-0.05	0	0	0	0	0	0	0	0
10/17/2024 12:55	13704	SCHN_T2	1	1	0	0.4	0.5	0.1	-0.32	-0.33	0	0	0	0	0	0
10/17/2024 12:55	40601	PIGR_T1	182	189	7	0.51	0.6	0.09	0	0	0	0	0	0	0	0
10/17/2024 12:55	67402	WAKE_T2	0	0	0	0	0	0	0.37	0.41	1	1	0	600	600	0
10/17/2024 12:55	55001	NEWP_T1	15	15	0	0.41	0.46	0.05	-0.3	-0.29	0	0	0	0	0	0
10/17/2024 12:55	40602	PIGR_T1	3	2	-1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
10/17/2024 12:55	67401	WAKE_T2	9	9	0	0.52	0.51	-0.01	0	0	0	0	0	0	0	0
10/17/2024 12:56	67401	WAKE_T2	9	9	0	0.52	0.51	-0.01	-1.11	-1.12	0	0	0	0	0	0
10/17/2024 12:56	55002	NEWP_T1	13	14	1	0.69	0.67	-0.02	-0.22	-0.23	0	0	0	0	0	0
10/17/2024 12:56	55001	NEWP_T1	15	15	0	0.41	0.46	0.05	-0.3	-0.29	0	0	0	0	0	0
10/17/2024 12:56	67604	WARW_T1	0	0	0	0	0	0	0.74	0.76	0	0	0	0	0	0
10/17/2024 12:56	64802	MONE_T2	174	141	-33	0.29	0.3	0.01	0	0	0	0	0	0	0	0
10/17/2024 12:56	67605	WARW_T1	59	59	0	0.64	0.62	-0.02	-1.1	-1.09	0	0	0	0	0	0
10/17/2024 12:56	67603	WARW_T1	4	3	-1	0.63	0.57	-0.06	0	0	0	0	0	0	0	0
10/17/2024 12:56	64801	MONE_T2	40	33	-7	0.23	0.23	0	0.3	0.29	0	0	0	0	0	0
10/17/2024 12:57	67401	WAKE_T2	9	9	0	0.52	0.51	-0.01	1.11	1.12	0	0	0	0	0	0
10/17/2024 12:57	64802	MONE_T2	174	141	-33	0.29	0.3	0.01	0.21	0.21	0	0	0	0	0	0
10/17/2024 12:57	64801	MONE_T2	40	33	-7	0.23	0.23	0	0	0	0	0	0	0	0	0
10/17/2024 12:58	67604	WARW_T1	0	0	0	0	0	0	0.74	0.76	0	0	0	0	0	0
10/17/2024 12:58	64801	MONE_T2	40	33	-7	0.23	0.23	0	0	0	0	0	0	0	0	0
10/17/2024 12:58	64802	MONE_T2	174	141	-33	0.29	0.3	0.01	0.21	0.21	0	0	0	0	0	0
10/17/2024 12:58	67603	WARW_T1	4	3	-1	0.63	0.57	-0.06	0	0	0	0	0	0	0	0
10/17/2024 12:58	67605	WARW_T1	59	59	0	0.64	0.62	-0.02	-1.1	-1.09	0	0	0	0	0	0
10/17/2024 12:59	67603	WARW_T1	4	3	-1	0.63	0.57	-0.06	0	0	0	0	0	0	0	0
10/17/2024 12:59	67401	WAKE_T2	9	9	0	0.52	0.51	-0.01	-1.11	-1.12	0	0	0	0	0	0
10/17/2024 12:59	67605	WARW_T1	59	59	0	0.64	0.62	-0.02	-1.1	-1.09	0	0	0	0	0	0
10/17/2024 12:59	67402	WAKE_T2	0	0	0	0	0	0	0.37	0.41	1	1	0	600	600	0
10/17/2024 13:00	67604	WARW_T1	0	1	1	0	0.1	0.1	0.74	0.76	0	0	0	0	0	0
10/17/2024 13:00	67605	WARW_T1	56	56	0	0.65	0.48	-0.17	0	0	0	0	0	0	0	0
10/17/2024 13:00	67603	WARW_T1	3	3	0	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
10/17/2024 13:01	10805	CHHI_T2	4	3	-1	2.13	2.73	0.6	-1.16	-1.08	1	1	0	1200	1200	0
10/17/2024 13:09	55001	NEWP_T1	15	8	-7	0.46	0.66	0.2	-0.29	-0.29	0	0	0	0	0	0
10/17/2024 13:09	55002	NEWP_T1	13	12	-1	0.63	0.83	0.2	0	0	0	0	0	0	0	0
10/17/2024 13:10	46802	HEPB_T1	2	4	2	0.7	0.5	-0.2	-0.35	-0.34	0	0	0	0	0	0
10/17/2024 13:11	55002	NEWP_T1	13	12	-1	0.63	0.83	0.2	0	0	0	0	0	0	0	0
10/17/2024 13:11	55001	NEWP_T1	15	8	-7	0.46	0.66	0.2	-0.29	-0.29	0	0	0	0	0	0
10/17/2024 13:16	20201	JERM_T1	0	0	0	0	0	0	-0.37	-0.4	2	2	0	2400	2400	0
10/17/2024 13:17	60803	BUCK_T1	2	14	12	0.1	0.21	0.11	0	0	0	0	0	0	0	0
10/17/2024 13:17	60801	BUCK_T1	1	4	3	0.4	0.28	-0.12	0.1	0.12	0	0	0	0	0	0
10/17/2024 13:21	64101	REFR_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/17/2024 13:22	64101	REFR_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/17/2024 13:23	64101	REFR_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/17/2024 13:24	55507	HERS_T1	6	8	2	0.2	0.2	0	0.03	0.08	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/17/2024 13:24	55501	HERS_T1	52	52	0	0.5	0.53	0.03	0	0	0	0	0	0	0	0
10/17/2024 13:24	13302	ORVI_T2	4	4	0	0.78	0.9	0.12	-0.1	1.22	0	0	0	0	0	0
10/17/2024 13:31	14203	EALL_T1	3	3	0	0.57	0.7	0.13	1.04	1.04	0	0	0	0	0	0
10/17/2024 13:36	13303	ORVI_T1	0	0	0	0	0	0	1.04	1.06	0	0	0	0	0	0
10/17/2024 13:40	14801	TREI_T2	8	9	1	0.41	0.46	0.05	0	0	0	0	0	0	0	0
10/17/2024 13:40	14802	TREI_T2	2	2	0	0.35	0.3	-0.05	0.32	0.3	0	0	0	0	0	0
10/17/2024 13:46	24101	EHAZ_T1	6	1	-5	0.77	1.1	0.33	0	0	0	0	0	0	0	0
10/17/2024 13:46	24105	EHAZ_T1	4	4	0	6.23	6.33	0.1	-0.78	-0.77	0	0	0	0	0	0
10/17/2024 13:47	46803	HEPB_T2	5	3	-2	0.42	0.53	0.11	0	0	0	0	0	0	0	0
10/17/2024 13:47	46801	HEPB_T2	2	3	1	1.4	0.97	-0.43	0.52	0.58	0	0	0	0	0	0
10/17/2024 13:49	60803	BUCK_T1	14	2	-12	0.21	0.15	-0.06	0	0	0	0	0	0	0	0
10/17/2024 13:49	60801	BUCK_T1	4	1	-3	0.28	0.4	0.12	0.11	0.13	0	0	0	0	0	0
10/17/2024 13:51	64305	LINC_T1	1	1	0	0.3	0.4	0.1	-0.14	-0.21	0	0	0	0	0	0
10/17/2024 13:57	16101	BING_T2	2	2	0	0.85	0.75	-0.1	0.35	0.33	0	0	0	0	0	0
10/17/2024 13:57	16101	BING_T2	2	2	0	0.85	0.75	-0.1	0.35	0.33	0	0	0	0	0	0
10/17/2024 13:57	16101	BING_T2	2	2	0	0.85	0.75	-0.1	0.35	0.33	0	0	0	0	0	0
10/17/2024 13:57	16101	BING_T2	2	2	0	0.85	0.75	-0.1	0.35	0.33	0	0	0	0	0	0
10/17/2024 13:57	16103	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/17/2024 13:57	16102	BING_T2	3	5	2	0.3	0.48	0.18	0	0	0	0	0	0	0	0
10/17/2024 14:02	46803	HEPB_T2	3	5	2	0.47	0.36	-0.11	0	0	0	0	0	0	0	0
10/17/2024 14:02	46801	HEPB_T2	2	3	1	1.4	0.97	-0.43	0.58	0.53	0	0	0	0	0	0
10/17/2024 14:06	64305	LINC_T1	1	1	0	0.3	0.4	0.1	-0.21	-0.13	0	0	0	0	0	0
10/17/2024 14:07	46101	MACI_T2	0	0	0	0	0	0	0.05	0.05	1	1	0	1200	1200	0
10/17/2024 14:11	55001	NEWP_T1	34	42	8	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
10/17/2024 14:11	55002	NEWP_T1	13	15	2	0.91	0.95	0.04	-0.24	-0.23	0	0	0	0	0	0
10/17/2024 14:12	14801	TREI_T2	9	8	-1	0.42	0.43	0.01	0	0	0	0	0	0	0	0
10/17/2024 14:12	14802	TREI_T2	1	4	3	0.5	0.2	-0.3	0.6	0.61	0	0	0	0	0	0
10/17/2024 14:13	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 14:15	54603	SUMM_T2	0	0	0	0	0	0	-0.43	-0.38	1	1	0	900	900	0
10/17/2024 14:15	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 14:15	54602	SUMM_T2	10	16	6	0.18	0.38	0.2	0	0	0	0	0	0	0	0
10/17/2024 14:15	54601	SUMM_T2	11	13	2	0.68	0.74	0.06	0	0	0	0	0	0	0	0
10/17/2024 14:17	54603	SUMM_T2	0	0	0	0	0	0	-0.43	-0.38	1	1	0	900	900	0
10/17/2024 14:17	60801	BUCK_T1	1	5	4	0.4	0.24	-0.16	0.09	0.02	0	0	0	0	0	0
10/17/2024 14:17	54601	SUMM_T2	11	13	2	0.68	0.74	0.06	0	0	0	0	0	0	0	0
10/17/2024 14:17	60803	BUCK_T1	2	15	13	0.15	0.22	0.07	0	0	0	0	0	0	0	0
10/17/2024 14:17	54602	SUMM_T2	10	16	6	0.18	0.38	0.2	0	0	0	0	0	0	0	0
10/17/2024 14:19	54602	SUMM_T2	10	16	6	0.18	0.38	0.2	0	0	0	0	0	0	0	0
10/17/2024 14:19	54601	SUMM_T2	11	13	2	0.68	0.74	0.06	-6.06	-5.96	4	4	0	4200	4200	0
10/17/2024 14:20	54602	SUMM_T2	10	16	6	0.18	0.38	0.2	0	0	0	0	0	0	0	0
10/17/2024 14:20	54601	SUMM_T2	11	13	2	0.68	0.74	0.06	0	0	0	0	0	0	0	0
10/17/2024 14:20	54603	SUMM_T2	0	0	0	0	0	0	-0.43	-0.38	1	1	0	900	900	0
10/17/2024 14:22	59302	MCAL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/17/2024 14:22	59301	MCAL_T1	3	4	1	1.03	1.08	0.05	-1.54	-1.64	1	1	0	600	600	0
10/17/2024 14:25	65604	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 14:25	66503	SMAN_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
10/17/2024 14:25	65603	QVIL_T2	0	0	0	0	0	0	0.46	0.5	0	0	0	0	0	0
10/17/2024 14:25	66501	SMAN_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/17/2024 14:25	66504	SMAN_T2	1	2	1	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
10/17/2024 14:25	59301	MCAL_T1	3	4	1	1.03	1.08	0.05	-1.54	-1.64	1	1	0	600	600	0
10/17/2024 14:25	65601	QVIL_T2	4	98	94	0.28	0.17	-0.11	0	0	0	0	0	0	0	0
10/17/2024 14:25	66502	SMAN_T2	5	6	1	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
10/17/2024 14:25	59302	MCAL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/17/2024 14:25	66505	SMAN_T2	0	1	1	0	0.1	0.1	0.38	0.45	2	2	0	1800	1800	0
10/17/2024 14:25	65602	QVIL_T2	25	40	15	0.2	0.31	0.11	0	0	0	0	0	0	0	0
10/17/2024 14:26	66504	SMAN_T2	1	2	1	0.9	0.55	-0.35	-0.82	-0.9	0	0	0	0	0	0
10/17/2024 14:26	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 14:26	66502	SMAN_T2	5	6	1	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
10/17/2024 14:26	66501	SMAN_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/17/2024 14:27	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 14:27	66504	SMAN_T2	1	2	1	0.9	0.55	-0.35	-0.41	-0.45	0	0	0	0	0	0
10/17/2024 14:27	66502	SMAN_T2	5	6	1	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
10/17/2024 14:27	66501	SMAN_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/17/2024 14:33	64702	LITI_T2	0	0	0	0	0	0	-0.65	-0.79	0	0	0	0	0	0
10/17/2024 14:35	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 14:38	57403	SPAN_T1	167	150	-17	0.49	0.37	-0.12	0	0	0	0	0	0	0	0
10/17/2024 14:38	57401	SPAN_T1	3	2	-1	1.03	1.55	0.52	-0.33	-0.39	1	1	0	600	600	0
10/17/2024 14:41	64101	REFR_T1	3	2	-1	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
10/17/2024 14:42	60101	COCA_T1	5	4	-1	0.3	0.38	0.08	0.18	0.23	0	0	0	0	0	0
10/17/2024 14:43	55002	NEWP_T1	15	25	10	0.92	0.66	-0.26	-0.22	-0.22	0	0	0	0	0	0
10/17/2024 14:43	60101	COCA_T1	5	4	-1	0.3	0.38	0.08	0.18	0.23	0	0	0	0	0	0
10/17/2024 14:43	55001	NEWP_T1	24	48	24	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
10/17/2024 14:44	11904	ETEX_T2	1	1	0	0.8	1.4	0.6	0.5	0.42	0	0	0	0	0	0
10/17/2024 14:44	60102	COCA_T1	0	0	0	0	0	0	-0.06	-0.29	2	2	0	1200	1200	0
10/17/2024 14:44	60101	COCA_T1	5	4	-1	0.3	0.38	0.08	0	0	0	0	0	0	0	0
10/17/2024 14:44	11901	ETEX_T2	3	4	1	0.3	0.23	-0.07	0.34	0.34	0	0	0	0	0	0
10/17/2024 14:45	11904	ETEX_T2	1	1	0	1.4	0.5	-0.9	0.25	0.21	0	0	0	0	0	0
10/17/2024 14:45	55002	NEWP_T1	25	15	-10	0.65	1	0.35	0	0	0	0	0	0	0	0
10/17/2024 14:45	11901	ETEX_T2	2	4	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/17/2024 14:45	55001	NEWP_T1	29	48	19	0.34	0.32	-0.02	-0.3	-0.33	0	0	0	0	0	0
10/17/2024 14:45	60101	COCA_T1	3	5	2	0.37	0.42	0.05	0.18	0.23	0	0	0	0	0	0
10/17/2024 14:45	60102	COCA_T1	0	0	0	0	0	0	-0.06	-0.29	2	2	0	1200	1200	0
10/17/2024 14:47	11901	ETEX_T2	2	4	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/17/2024 14:47	60101	COCA_T1	3	5	2	0.37	0.42	0.05	0.18	0.23	0	0	0	0	0	0
10/17/2024 14:47	11904	ETEX_T2	1	1	0	1.4	0.5	-0.9	0	0	0	0	0	0	0	0
10/17/2024 14:48	11904	ETEX_T2	1	1	0	1.4	0.5	-0.9	0.25	0.21	0	0	0	0	0	0
10/17/2024 14:48	11901	ETEX_T2	2	4	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/17/2024 14:57	21504	CEAV_T1	0	0	0	0	0	0	0	2.62	1	1	0	1200	1200	0
10/17/2024 14:58	51306	WIND_T2	3	3	0	0.23	0.35	0.12	0.22	0.19	0	0	0	0	0	0
10/17/2024 14:58	44301	BEAV_T2	19	14	-5	0.21	0.2	-0.01	-0.09	-0.01	1	1	0	600	600	0
10/17/2024 14:58	44302	BEAV_T2	10	15	5	0.43	0.41	-0.02	0.27	0.25	0	0	0	0	0	0
10/17/2024 14:58	51304	WIND_T2	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
10/17/2024 15:00	54501	ENOL_T2	4	4	0	0.23	0.33	0.1	0	0	0	0	0	0	0	0
10/17/2024 15:00	54505	ENOL_T2	2	2	0	1.05	1.05	0	-1.39	-1.4	1	1	0	600	600	0
10/17/2024 15:00	54502	ENOL_T2	2	1	-1	0.45	0.9	0.45	0	0	0	0	0	0	0	0
10/17/2024 15:00	44302	BEAV_T2	13	13	0	0.45	0.44	-0.01	0.54	0.5	0	0	0	0	0	0
10/17/2024 15:00	44301	BEAV_T2	14	14	0	0.17	0.18	0.01	-0.09	-0.01	1	1	0	600	600	0
10/17/2024 15:02	54501	ENOL_T2	4	4	0	0.23	0.33	0.1	0.09	0.09	0	0	0	0	0	0
10/17/2024 15:02	44301	BEAV_T2	14	14	0	0.17	0.18	0.01	0	0	0	0	0	0	0	0
10/17/2024 15:02	44302	BEAV_T2	13	13	0	0.45	0.44	-0.01	0.27	0.25	0	0	0	0	0	0
10/17/2024 15:02	54505	ENOL_T2	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
10/17/2024 15:02	54502	ENOL_T2	2	1	-1	0.45	0.9	0.45	0	0	0	0	0	0	0	0
10/17/2024 15:05	59302	MCAL_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
10/17/2024 15:05	15601	NSTR_T2	3	3	0	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/17/2024 15:05	59301	MCAL_T1	5	15	10	0.82	0.47	-0.35	-1.66	-1.66	1	1	0	600	600	0
10/17/2024 15:05	15603	NSTR_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
10/17/2024 15:16	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 15:16	21206	ECAR_T2	1	1	0	7.3	7	-0.3	1.37	1.29	0	0	0	0	0	0
10/17/2024 15:18	64202	KINZ_T1	3	3	0	0.23	0.57	0.34	0	0	0	0	0	0	0	0
10/17/2024 15:18	64204	KINZ_T1	26	26	0	0.47	0.47	0	0	0	0	0	0	0	0	0
10/17/2024 15:18	64201	KINZ_T1	0	0	0	0	0	0	-0.08	0.02	3	3	0	1500	1500	0
10/17/2024 15:20	64204	KINZ_T1	26	26	0	0.47	0.47	0	0	0	0	0	0	0	0	0
10/17/2024 15:20	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 15:20	64202	KINZ_T1	3	3	0	0.23	0.57	0.34	0	0	0	0	0	0	0	0
10/17/2024 15:26	43801	SWIL_T1	2	2	0	2.45	3.1	0.65	0	0	0	0	0	0	0	0
10/17/2024 15:26	43802	SWIL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/17/2024 15:26	14704	TREX_T1	1	1	0	3.4	4	0.6	0	0	0	0	0	0	0	0
10/17/2024 15:26	14705	TREX_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
10/17/2024 15:29	46001	BERW_T1	6	2	-4	0.42	0.4	-0.02	0.63	1	0	0	0	0	0	0
10/17/2024 15:29	57203	ROSS_T1	0	0	0	0	0	0	-0.38	-0.35	0	0	0	0	0	0
10/17/2024 15:29	57201	ROSS_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/17/2024 15:29	57205	ROSS_T1	3	3	0	0.87	0.73	-0.14	0	0	0	0	0	0	0	0
10/17/2024 15:29	46005	BERW_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/17/2024 15:30	46005	BERW_T1	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
10/17/2024 15:30	46001	BERW_T1	2	3	1	0.4	0.27	-0.13	0.63	1	0	0	0	0	0	0
10/17/2024 15:35	64704	LITI_T1	0	0	0	0	0	0	0.16	0.21	1	1	0	600	600	0
10/17/2024 15:36	63501	HEID_TBK1-2	38	42	4	0.3	0.38	0.08	-0.26	-0.21	1	1	0	900	900	0
10/17/2024 15:36	65001	NEFF_T2	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
10/17/2024 15:36	65005	NEFF_T2	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
10/17/2024 15:36	65004	NEFF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/17/2024 15:36	65003	NEFF_T2	3	7	4	0.33	0.24	-0.09	0	0	0	0	0	0	0	0
10/17/2024 15:39	64704	LITI_T1	0	0	0	0	0	0	0.21	0.21	1	1	0	600	600	0
10/17/2024 15:40	50105	HARR_T3	6	6	0	5.48	5.57	0.09	0	0	0	0	0	0	0	0
10/17/2024 15:40	50102	HARR_T3	4	1	-3	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
10/17/2024 15:40	50103	HARR_T3	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
10/17/2024 15:40	50107	HARR_T3	1	1	0	9.6	9.2	-0.4	0	0	0	0	0	0	0	0
10/17/2024 15:40	50201	HARR_T3	1	1	0	1.2	0.5	-0.7	0	0	1	1	0	1200	1200	0
10/17/2024 15:44	54502	ENOL_T2	1	2	1	0.9	0.45	-0.45	0	0	0	0	0	0	0	0
10/17/2024 15:44	54501	ENOL_T2	3	4	1	0.23	0.43	0.2	0	0	0	0	0	0	0	0
10/17/2024 15:44	54505	ENOL_T2	2	2	0	0.95	0.9	-0.05	-1.38	-1.39	1	1	0	600	600	0
10/17/2024 15:46	45801	HEGI_T1	0	0	0	0	0	0	-0.27	-0.28	1	1	0	900	900	0
10/17/2024 15:48	23201	HIRU_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/17/2024 15:48	23202	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 15:48	23203	HIRU_T2	0	0	0	0	0	0	0.15	0.03	0	0	0	0	0	0
10/17/2024 15:49	54505	ENOL_T2	2	2	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
10/17/2024 15:49	54503	ENOL_T2	0	0	0	0	0	0	-0.42	-0.44	1	1	0	600	600	0
10/17/2024 15:49	54502	ENOL_T2	2	27	25	0.45	0.14	-0.31	0	0	0	0	0	0	0	0
10/17/2024 15:49	54501	ENOL_T2	4	4	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
10/17/2024 15:50	23203	HIRU_T2	0	0	0	0	0	0	0.15	0.03	0	0	0	0	0	0
10/17/2024 15:50	23202	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 15:50	23201	HIRU_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/17/2024 15:51	45801	HEGI_T1	0	0	0	0	0	0	-0.27	-0.28	1	1	0	900	900	0
10/17/2024 15:52	65005	NEFF_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
10/17/2024 15:52	65004	NEFF_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/17/2024 15:52	65003	NEFF_T2	7	87	80	0.24	0.2	-0.04	-1.8	-1.85	2	2	0	1800	1800	0
10/17/2024 15:52	65001	NEFF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/17/2024 15:55	60201	ATGL_T2	65	169	104	0.16	0.31	0.15	0	0	0	0	0	0	0	0
10/17/2024 15:56	65602	QVIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/17/2024 15:56	65603	QVIL_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
10/17/2024 15:56	65601	QVIL_T2	15	92	77	0.13	0.23	0.1	0	0	0	0	0	0	0	0
10/17/2024 15:56	60201	ATGL_T2	65	169	104	0.16	0.31	0.15	-0.14	-0.15	0	0	0	0	0	0
10/17/2024 15:56	65604	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/17/2024 15:58	46504	LOHA_T1	2	13	11	1.3	0.31	-0.99	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/17/2024 15:58	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
10/17/2024 15:58	46506	LOHA_T1	3	3	0	5.27	5.4	0.13	0	0	0	0	0	0	0	0
10/17/2024 16:04	43801	SWIL_T1	2	4	2	3.2	1.7	-1.5	0	0	0	0	0	0	0	0
10/17/2024 16:04	43802	SWIL_T1	1	1	0	0.4	0.5	0.1	-0.25	-0.25	1	1	0	600	600	0
10/17/2024 16:06	57505	LAWN_T3	11	8	-3	0.32	0.25	-0.07	0.47	0.52	0	0	0	0	0	0
10/17/2024 16:07	51004	NHAR_T1	2	2	0	5.8	5.75	-0.05	-0.32	-0.31	0	0	0	0	0	0
10/17/2024 16:07	51002	NHAR_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
10/17/2024 16:11	67401	WAKE_T2	2	13	11	0.1	0.16	0.06	-1.13	-1.14	0	0	0	0	0	0
10/17/2024 16:12	67401	WAKE_T2	2	13	11	0.1	0.16	0.06	-1.13	-1.14	0	0	0	0	0	0
10/17/2024 16:15	57004	WHHI_T2	0	0	0	0	0	0	-0.57	-0.52	0	0	0	0	0	0
10/17/2024 16:15	57003	WHHI_T2	4	1	-3	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
10/17/2024 16:16	26704	HEML_T2	9	40	31	0.1	0.15	0.05	-0.85	-0.88	1	1	0	1200	1200	0
10/17/2024 16:16	60201	ATGL_T2	169	235	66	0.31	0.36	0.05	-0.15	-0.21	0	0	0	0	0	0
10/17/2024 16:21	65005	NEFF_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
10/17/2024 16:21	65003	NEFF_T2	87	6	-81	0.2	0.33	0.13	0	0	0	0	0	0	0	0
10/17/2024 16:21	65001	NEFF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/17/2024 16:21	65004	NEFF_T2	1	0	-1	0.3	0	-0.3	-0.54	-0.55	0	0	0	0	0	0
10/17/2024 16:30	10602	BLGL_T2	1	0	-1	0.1	0	-0.1	0.02	0	0	0	0	0	0	0
10/17/2024 16:30	45902	AUBU_T1	0	0	0	0	0	0	0.26	0.34	1	1	0	600	600	0
10/17/2024 16:34	50623	CCTY_T2	5	5	0	5.74	5.68	-0.06	0	0	0	0	0	0	0	0
10/17/2024 16:34	50624	CCTY_T2	2	2	0	6.35	6.05	-0.3	0	0	0	0	0	0	0	0
10/17/2024 16:34	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 16:34	50625	CCTY_T2	4	6	2	3.45	2.28	-1.17	0	0	0	0	0	0	0	0
10/17/2024 16:35	52001	LING_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
10/17/2024 16:36	52006	LING_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/17/2024 16:36	52002	LING_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/17/2024 16:36	52004	LING_T2	2	2	0	6.35	6	-0.35	0.09	0.08	0	0	0	0	0	0
10/17/2024 16:37	42902	MIDD_T2	17	35	18	0.19	0.24	0.05	-0.57	-0.57	0	0	0	0	0	0
10/17/2024 16:37	13701	SCHN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 16:37	13704	SCHN_T2	1	0	-1	0.2	0	-0.2	-0.43	-0.43	0	0	0	0	0	0
10/17/2024 16:37	52006	LING_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/17/2024 16:37	52002	LING_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/17/2024 16:37	42901	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/17/2024 16:37	44701	MUNC_T2	22	70	48	0.27	0.16	-0.11	0	0	0	0	0	0	0	0
10/17/2024 16:37	65005	NEFF_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
10/17/2024 16:37	65003	NEFF_T2	6	48	42	0.33	0.17	-0.16	0	0	0	0	0	0	0	0
10/17/2024 16:37	42903	MIDD_T2	2	2	0	1.45	1.7	0.25	0.28	0.23	0	0	0	0	0	0
10/17/2024 16:37	44702	MUNC_T2	198	10	-188	0.38	0.15	-0.23	0	0	0	0	0	0	0	0
10/17/2024 16:37	44703	MUNC_T2	2	2	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
10/17/2024 16:37	52004	LING_T2	2	2	0	6.35	6	-0.35	0.16	0.15	0	0	0	0	0	0
10/17/2024 16:38	13701	SCHN_T2	1	0	-1	0.1	0	-0.1	-0.18	-0.17	1	1	0	600	600	0
10/17/2024 16:38	13704	SCHN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/17/2024 16:39	44701	MUNC_T2	22	70	48	0.27	0.16	-0.11	0	0	0	0	0	0	0	0
10/17/2024 16:39	65604	QVIL_T2	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
10/17/2024 16:39	42903	MIDD_T2	2	2	0	1.45	1.7	0.25	0	0	0	0	0	0	0	0
10/17/2024 16:39	65602	QVIL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/17/2024 16:39	65603	QVIL_T2	1	140	139	0.1	0.17	0.07	0.08	0.02	0	0	0	0	0	0
10/17/2024 16:39	42901	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/17/2024 16:39	42902	MIDD_T2	17	35	18	0.19	0.24	0.05	-0.57	-0.57	0	0	0	0	0	0
10/17/2024 16:39	65601	QVIL_T2	94	131	37	0.22	0.35	0.13	0	0	0	0	0	0	0	0
10/17/2024 16:39	44702	MUNC_T2	198	10	-188	0.38	0.15	-0.23	0	0	0	0	0	0	0	0
10/17/2024 16:39	44703	MUNC_T2	2	2	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
10/17/2024 16:40	65601	QVIL_T2	94	131	37	0.22	0.35	0.13	0	0	0	0	0	0	0	0
10/17/2024 16:40	65603	QVIL_T2	1	140	139	0.1	0.17	0.07	0.08	0.02	0	0	0	0	0	0
10/17/2024 16:40	57402	SPAN_T2	0	0	0	0	0	0	-1.23	-1.23	0	0	0	0	0	0
10/17/2024 16:40	65604	QVIL_T2	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
10/17/2024 16:40	65602	QVIL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/17/2024 16:41	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 16:44	60201	ATGL_T2	137	270	133	0.33	0.38	0.05	-0.18	-0.2	0	0	0	0	0	0
10/17/2024 16:47	60803	BUCK_T1	25	25	0	0.3	0.34	0.04	0	0	0	0	0	0	0	0
10/17/2024 16:47	60801	BUCK_T1	55	57	2	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
10/17/2024 16:47	20601	GRWO_T2	0	0	0	0	0	0	0.07	0.15	0	0	0	0	0	0
10/17/2024 16:47	20603	GRWO_T2	2	24	22	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/17/2024 16:48	60801	BUCK_T1	55	57	2	0.28	0.26	-0.02	-0.22	-0.23	0	0	0	0	0	0
10/17/2024 16:48	60803	BUCK_T1	25	25	0	0.3	0.34	0.04	0	0	0	0	0	0	0	0
10/17/2024 16:50	24702	FLND_T2	0	0	0	0	0	0	-0.27	-0.24	1	1	0	1200	1200	0
10/17/2024 16:52	64701	LITI_T1	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
10/17/2024 16:56	59402	RFLD_T2	0	0	0	0	0	0	-1.73	-1.71	2	2	0	900	900	0
10/17/2024 16:59	54501	ENOL_T2	4	3	-1	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
10/17/2024 16:59	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
10/17/2024 16:59	54505	ENOL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
10/17/2024 16:59	57205	ROSS_T1	1	1	0	0.2	0.1	-0.1	0.14	0.1	0	0	0	0	0	0
10/17/2024 16:59	54502	ENOL_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/17/2024 16:59	67401	WAKE_T2	11	63	52	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
10/17/2024 16:59	54504	ENOL_T2	0	0	0	0	0	0	-1.17	-1.18	1	1	0	600	600	0
10/17/2024 17:00	57205	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 17:00	57201	ROSS_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
10/17/2024 17:03	54501	ENOL_T2	3	2	-1	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
10/17/2024 17:03	64704	LITI_T1	0	0	0	0	0	0	0.34	0.17	1	1	0	600	600	0
10/17/2024 17:03	54505	ENOL_T2	1	1	0	1.3	1.3	0	-1.39	-1.38	1	1	0	600	600	0
10/17/2024 17:03	54502	ENOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/17/2024 17:05	50502	MECH_T1	1	1	0	2.8	2.9	0.1	0	0	0	0	0	0	0	0
10/17/2024 17:05	50501	MECH_T1	4	5	1	1.45	2.44	0.99	0	0	0	0	0	0	0	0
10/17/2024 17:05	50506	MECH_T1	0	0	0	0	0	0	0.5	0.42	0	0	0	0	0	0
10/17/2024 17:05	50504	MECH_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 17:06	50501	MECH_T1	4	5	1	1.45	2.44	0.99	0	0	0	0	0	0	0	0
10/17/2024 17:06	50506	MECH_T1	0	0	0	0	0	0	0.5	0.42	0	0	0	0	0	0
10/17/2024 17:06	50504	MECH_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 17:06	50502	MECH_T1	1	1	0	2.8	2.9	0.1	0	0	0	0	0	0	0	0
10/17/2024 17:08	54201	PENN_T1	11	23	12	0.92	0.54	-0.38	0	0	0	0	0	0	0	0
10/17/2024 17:08	50506	MECH_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
10/17/2024 17:08	50504	MECH_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 17:08	54203	PENN_T1	19	20	1	1.32	1.34	0.02	0	0	0	0	0	0	0	0
10/17/2024 17:08	50502	MECH_T1	1	1	0	2.8	2.9	0.1	0	0	0	0	0	0	0	0
10/17/2024 17:08	54205	PENN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 17:08	50501	MECH_T1	4	5	1	1.45	2.44	0.99	0	0	0	0	0	0	0	0
10/17/2024 17:10	14801	TREI_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
10/17/2024 17:11	50502	MECH_T1	1	1	0	2.8	2.9	0.1	0	0	0	0	0	0	0	0
10/17/2024 17:11	50501	MECH_T1	4	5	1	1.45	2.44	0.99	0.23	-0.08	0	0	0	0	0	0
10/17/2024 17:11	50504	MECH_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 17:12	45302	WBER_T2	0	0	0	0	0	0	0.69	0.72	0	0	0	0	0	0
10/17/2024 17:12	45303	WBER_T2	1	2	1	9.4	4.7	-4.7	0	0	0	0	0	0	0	0
10/17/2024 17:14	62103	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/17/2024 17:14	62106	ELAN_T1	1	5	4	0.1	0.1	0	0	0	0	0	0	0	0	0
10/17/2024 17:14	62105	ELAN_T1	34	47	13	0.11	0.11	0	0	0	0	0	0	0	0	0
10/17/2024 17:14	62101	ELAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/17/2024 17:15	54502	ENOL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
10/17/2024 17:15	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 17:15	62105	ELAN_T1	47	0	-47	0.11	0	-0.11	0.38	0.38	0	0	0	0	0	0
10/17/2024 17:15	54505	ENOL_T2	1	1	0	1.3	1	-0.3	-1.38	-1.39	1	1	0	600	600	0
10/17/2024 17:15	54501	ENOL_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/17/2024 17:15	62106	ELAN_T1	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 17:15	62101	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/17/2024 17:16	62101	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/17/2024 17:16	62105	ELAN_T1	47	0	-47	0.11	0	-0.11	0	0	0	0	0	0	0	0
10/17/2024 17:16	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 17:16	11603	CEAL_T1	1	0	-1	6.7	0	-6.7	0	0	0	0	0	0	0	0
10/17/2024 17:16	62106	ELAN_T1	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 17:16	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/17/2024 17:17	62102	ELAN_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
10/17/2024 17:17	62101	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/17/2024 17:17	62105	ELAN_T1	47	0	-47	0.11	0	-0.11	0	0	0	0	0	0	0	0
10/17/2024 17:17	62106	ELAN_T1	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 17:17	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 17:21	10101	ALLE_T3	1	1	0	8.7	0	-8.7	0	0	0	0	0	0	0	0
10/17/2024 17:21	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 17:22	46101	MACI_T2	0	0	0	0	0	0	0.71	0.75	0	0	0	0	0	0
10/17/2024 17:25	50501	MECH_T1	4	4	0	1.5	1.55	0.05	0	0	0	0	0	0	0	0
10/17/2024 17:25	50502	MECH_T1	1	1	0	2.9	2.7	-0.2	0	0	0	0	0	0	0	0
10/17/2024 17:25	50504	MECH_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 17:25	50505	MECH_T1	0	0	0	0	0	0	-0.99	-1.02	0	0	0	0	0	0
10/17/2024 17:26	43505	WWIL_T1	1	1	0	2.9	2.6	-0.3	0	0	0	0	0	0	0	0
10/17/2024 17:26	43506	WWIL_T1	2	3	1	1.15	0.83	-0.32	0	0	0	0	0	0	0	0
10/17/2024 17:26	43504	WWIL_T1	13	13	0	0.62	0.52	-0.1	0.55	0.52	0	0	0	0	0	0
10/17/2024 17:31	67502	WEWI_T2	0	0	0	0	0	0	-0.48	-0.53	0	0	0	0	0	0
10/17/2024 17:31	67503	WEWI_T2	1	1	0	7.7	7.9	0.2	0	0	0	0	0	0	0	0
10/17/2024 17:45	57203	ROSS_T1	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
10/17/2024 17:45	57201	ROSS_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 17:46	45801	HEGI_T1	0	0	0	0	0	0	-0.35	-0.34	1	1	0	900	900	0
10/17/2024 17:47	44502	HAMI_T2	1	1	0	3.3	3.5	0.2	0	0	0	0	0	0	0	0
10/17/2024 17:47	44503	HAMI_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
10/17/2024 17:47	57201	ROSS_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 17:47	57205	ROSS_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
10/17/2024 17:51	42902	MIDD_T2	0	0	0	0	0	0	-0.62	-0.57	0	0	0	0	0	0
10/17/2024 17:51	42903	MIDD_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/17/2024 18:05	24702	FLND_T2	0	0	0	0	0	0	-0.09	-0.13	1	1	0	1200	1200	0
10/17/2024 18:10	11203	ELHE_T1	0	0	0	0	0	0	0.85	0.97	0	0	0	0	0	0
10/17/2024 20:15	16102	BING_T2	15	17	2	0.2	0.22	0.02	0	0	0	0	0	0	0	0
10/17/2024 20:15	16101	BING_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
10/17/2024 20:15	28704	HAML_T2	132	107	-25	0.26	0.18	-0.08	-0.62	-0.64	0	0	0	0	0	0
10/17/2024 20:15	15603	NSTR_T2	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
10/17/2024 20:16	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
10/17/2024 20:16	54601	SUMM_T2	12	13	1	0.43	0.54	0.11	-3.01	-2.88	2	2	0	2100	2100	0
10/17/2024 20:16	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
10/17/2024 20:17	44802	EDAN_T2	45	44	-1	0.12	0.11	-0.01	-0.91	-0.92	0	0	0	0	0	0
10/17/2024 20:17	20603	GRWO_T2	7	16	9	0.11	0.18	0.07	0.31	0.35	0	0	0	0	0	0
10/17/2024 20:17	44801	EDAN_T2	310	316	6	0.63	0.69	0.06	0	0	0	0	0	0	0	0
10/17/2024 20:17	26704	HEML_T2	3	11	8	0.13	0.1	-0.03	-0.89	-0.88	1	1	0	1200	1200	0
10/17/2024 20:18	50103	HARR_T3	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/17/2024 20:18	50202	HARR_T3	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/17/2024 20:18	50107	HARR_T3	1	1	0	7.5	7.6	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:18	50201	HARR_T3	1	1	0	8.9	10	1.1	0	0	0	0	0	0	0	0
10/17/2024 20:18	50105	HARR_T3	6	6	0	6.03	6.17	0.14	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/17/2024 20:18	44801	EDAN_T2	310	316	6	0.63	0.69	0.06	0	0	0	0	0	0	0	0
10/17/2024 20:18	44802	EDAN_T2	45	44	-1	0.12	0.11	-0.01	-0.91	-0.92	0	0	0	0	0	0
10/17/2024 20:19	51004	NHAR_T1	2	2	0	5.7	5.7	0	-0.4	-0.43	0	0	0	0	0	0
10/17/2024 20:19	44802	EDAN_T2	45	44	-1	0.12	0.11	-0.01	-0.91	-0.92	0	0	0	0	0	0
10/17/2024 20:19	63501	HEID_TBK1-2	34	24	-10	0.39	0.19	-0.2	0.35	0.32	0	0	0	0	0	0
10/17/2024 20:19	51002	NHAR_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:19	44801	EDAN_T2	310	316	6	0.63	0.69	0.06	0	0	0	0	0	0	0	0
10/17/2024 20:20	65001	NEFF_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
10/17/2024 20:20	67001	STHI_T2	4	1	-3	0.15	0.2	0.05	0.02	0.03	0	0	0	0	0	0
10/17/2024 20:20	10101	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:20	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:20	67002	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/17/2024 20:20	44801	EDAN_T2	310	316	6	0.63	0.69	0.06	-1.62	-1.66	0	0	0	0	0	0
10/17/2024 20:20	44802	EDAN_T2	45	44	-1	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
10/17/2024 20:20	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.36	0	0	0	0	0	0
10/17/2024 20:20	65003	NEFF_T2	41	21	-20	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
10/17/2024 20:20	15201	SFAR_T1	0	0	0	0	0	0	-0.08	-0.19	1	1	0	1200	1200	0
10/17/2024 20:21	44801	EDAN_T2	310	316	6	0.63	0.69	0.06	0	0	0	0	0	0	0	0
10/17/2024 20:21	54502	ENOL_T2	1	1	0	0.5	0.3	-0.2	-1.4	-1.4	0	0	0	0	0	0
10/17/2024 20:21	14201	EALL_T1	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
10/17/2024 20:21	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
10/17/2024 20:21	44802	EDAN_T2	45	44	-1	0.12	0.11	-0.01	-1.84	-1.86	0	0	0	0	0	0
10/17/2024 20:21	54505	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:22	10805	CHHI_T2	1	1	0	7.7	7.5	-0.2	-1.16	-1.12	1	1	0	600	600	0
10/17/2024 20:22	66501	SMAN_T2	29	0	-29	0.13	0	-0.13	0	0	0	0	0	0	0	0
10/17/2024 20:22	46004	BERW_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/17/2024 20:22	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/17/2024 20:22	11603	CEAL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:22	46002	BERW_T2	0	0	0	0	0	0	-1.17	-1.19	1	1	0	900	900	0
10/17/2024 20:22	66502	SMAN_T2	10	0	-10	0.12	0	-0.12	0	0	0	0	0	0	0	0
10/17/2024 20:22	66505	SMAN_T2	3	3	0	1.47	1.57	0.1	-0.35	-0.41	1	1	0	900	900	0
10/17/2024 20:23	63501	HEID_TBK1-2	34	24	-10	0.39	0.19	-0.2	0.32	0.35	0	0	0	0	0	0
10/17/2024 20:23	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/17/2024 20:23	65601	QVIL_T2	104	110	6	0.26	0.21	-0.05	0	0	0	0	0	0	0	0
10/17/2024 20:23	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:23	11603	CEAL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:23	10101	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:23	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:23	25402	LAHA_T2	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
10/17/2024 20:23	65603	QVIL_T2	18	12	-6	0.23	0.23	0	0.02	0.04	0	0	0	0	0	0
10/17/2024 20:23	44301	BEAV_T2	0	0	0	0	0	0	-0.37	-0.47	1	1	0	600	600	0
10/17/2024 20:23	39601	LNFD_T1	39	39	0	4.95	2.74	-2.21	0	0	0	0	0	0	0	0
10/17/2024 20:23	14801	TREI_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
10/17/2024 20:23	65604	QVIL_T2	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
10/17/2024 20:23	66504	SMAN_T2	0	0	0	0	0	0	-1.11	-1.22	0	0	0	0	0	0
10/17/2024 20:23	66501	SMAN_T2	29	0	-29	0.13	0	-0.13	0	0	0	0	0	0	0	0
10/17/2024 20:23	66502	SMAN_T2	10	0	-10	0.12	0	-0.12	0	0	0	0	0	0	0	0
10/17/2024 20:23	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.05	0	0	0	0	0	0
10/17/2024 20:23	66505	SMAN_T2	3	3	0	1.47	1.57	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:23	11904	ETEX_T2	0	0	0	0	0	0	0.2	0.12	0	0	0	0	0	0
10/17/2024 20:24	24101	EHAZ_T1	0	12	12	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:24	61701	ELIZ_T1	1	1	0	4.6	4.9	0.3	0.28	0.26	0	0	0	0	0	0
10/17/2024 20:24	45902	AUBU_T1	0	0	0	0	0	0	0.45	0.45	2	2	0	1200	1200	0
10/17/2024 20:24	40602	PIGR_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:24	14203	EALL_T1	0	0	0	0	0	0	0.76	0.76	0	0	0	0	0	0
10/17/2024 20:24	65601	QVIL_T2	104	110	6	0.26	0.21	-0.05	0	0	0	0	0	0	0	0
10/17/2024 20:24	60101	COCA_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
10/17/2024 20:24	11301	EMMA_T1	0	0	0	0	0	0	-0.84	-0.89	0	0	0	0	0	0
10/17/2024 20:24	65604	QVIL_T2	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
10/17/2024 20:24	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
10/17/2024 20:24	45801	HEGI_T1	0	0	0	0	0	0	-0.29	-0.3	1	1	0	900	900	0
10/17/2024 20:24	54502	ENOL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
10/17/2024 20:24	14802	TREI_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
10/17/2024 20:24	64801	MONE_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
10/17/2024 20:24	60201	ATGL_T2	57	98	41	0.25	0.26	0.01	-0.24	-0.29	0	0	0	0	0	0
10/17/2024 20:24	24102	EHAZ_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
10/17/2024 20:24	65603	QVIL_T2	18	12	-6	0.23	0.23	0	0.02	0.04	0	0	0	0	0	0
10/17/2024 20:24	54505	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:24	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
10/17/2024 20:24	44703	MUNC_T2	2	2	0	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
10/17/2024 20:24	64701	LITI_T1	0	0	0	0	0	0	-0.02	0.01	0	0	0	0	0	0
10/17/2024 20:24	48901	FOSP_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
10/17/2024 20:24	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
10/17/2024 20:24	24105	EHAZ_T1	4	4	0	6.08	6.15	0.07	-0.88	-0.91	0	0	0	0	0	0
10/17/2024 20:24	46001	BERW_T1	0	0	0	0	0	0	0.58	0.52	0	0	0	0	0	0
10/17/2024 20:24	54501	ENOL_T2	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
10/17/2024 20:24	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:24	40601	PIGR_T1	165	157	-8	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
10/17/2024 20:24	44701	MUNC_T2	27	5	-22	0.14	0.16	0.02	0	0	0	0	0	0	0	0
10/17/2024 20:24	44702	MUNC_T2	7	1	-6	0.16	0.2	0.04	0	0	0	0	0	0	0	0
10/17/2024 20:25	67001	STHI_T2	4	1	-3	0.15	0.2	0.05	0	0	0	0	0	0	0	0
10/17/2024 20:25	67002	STHI_T2	1	1	0	0.1	0.1	0	1.51	1.5	0	0	0	0	0	0
10/17/2024 20:25	42903	MIDD_T2	2	2	0	0.3	0.6	0.3	-1.56	-1.57	1	1	0	1200	1200	0
10/17/2024 20:25	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
10/17/2024 20:25	11603	CEAL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:25	59301	MCAL_T1	1	2	1	0.3	0.8	0.5	-1.27	-1.29	0	0	0	0	0	0
10/17/2024 20:25	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/17/2024 20:25	44503	HAMI_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
10/17/2024 20:25	67605	WARW_T1	15	19	4	0.51	0.51	0	-2.33	-2.35	0	0	0	0	0	0
10/17/2024 20:25	64904	MILL_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
10/17/2024 20:25	14705	TREX_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
10/17/2024 20:25	14802	TREI_T2	0	0	0	0	0	0	0.61	0.64	0	0	0	0	0	0
10/17/2024 20:25	44502	HAMI_T2	1	1	0	3.8	3.7	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:25	52502	PROG_T2	0	0	0	0	0	0	-0.73	-0.71	1	1	0	900	900	0
10/17/2024 20:25	63501	HEID_TBK1-2	34	24	-10	0.39	0.19	-0.2	0.32	0.35	0	0	0	0	0	0
10/17/2024 20:25	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
10/17/2024 20:25	24202	PROV_T4	6	0	-6	0.12	0	-0.12	0	0	1	1	0	1200	1200	0
10/17/2024 20:25	14704	TREX_T1	1	1	0	3.9	3.6	-0.3	0	0	0	0	0	0	0	0
10/17/2024 20:25	11904	ETEX_T2	0	0	0	0	0	0	0.2	0.12	0	0	0	0	0	0
10/17/2024 20:25	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:25	51301	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:26	46101	MACI_T2	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
10/17/2024 20:26	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:26	67604	WARW_T1	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
10/17/2024 20:26	45303	WBER_T2	5	4	-1	2.02	2.5	0.48	0	0	0	0	0	0	0	0
10/17/2024 20:26	42902	MIDD_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
10/17/2024 20:26	67001	STHI_T2	4	1	-3	0.15	0.2	0.05	0.03	0.04	0	0	0	0	0	0
10/17/2024 20:26	41202	KENM_T2	1	1	0	0.4	0.3	-0.1	0.48	0.45	0	0	0	0	0	0
10/17/2024 20:26	10602	BLGL_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
10/17/2024 20:26	43801	SWIL_T1	6	2	-4	1.18	3.3	2.12	0	0	0	0	0	0	0	0
10/17/2024 20:26	11904	ETEX_T2	0	0	0	0	0	0	0.2	0.12	0	0	0	0	0	0
10/17/2024 20:26	67002	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/17/2024 20:26	41201	KENM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:26	67605	WARW_T1	15	19	4	0.51	0.51	0	0	0	0	0	0	0	0	0
10/17/2024 20:26	60101	COCA_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
10/17/2024 20:26	20201	JERM_T1	0	0	0	0	0	0	-0.43	-0.44	2	2	0	2400	2400	0
10/17/2024 20:26	45302	WBER_T2	0	0	0	0	0	0	0.59	0.7	0	0	0	0	0	0
10/17/2024 20:26	22901	HARW_T1	0	0	0	0	0	0	-0.55	-0.34	1	1	0	1200	1200	0
10/17/2024 20:26	42903	MIDD_T2	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
10/17/2024 20:26	16101	BING_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
10/17/2024 20:26	16102	BING_T2	15	17	2	0.2	0.22	0.02	0	0	0	0	0	0	0	0
10/17/2024 20:27	66504	SMAN_T2	0	0	0	0	0	0	-0.56	-0.61	0	0	0	0	0	0
10/17/2024 20:27	45902	AUBU_T1	0	0	0	0	0	0	0.45	0.45	2	2	0	1200	1200	0
10/17/2024 20:27	52004	LING_T2	2	2	0	6.1	6.05	-0.05	0.11	0.12	0	0	0	0	0	0
10/17/2024 20:27	66502	SMAN_T2	10	0	-10	0.12	0	-0.12	0	0	0	0	0	0	0	0
10/17/2024 20:27	48902	FOSP_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
10/17/2024 20:27	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:27	55002	NEWP_T1	4	4	0	0.88	0.83	-0.05	-0.26	-0.27	0	0	0	0	0	0
10/17/2024 20:27	67604	WARW_T1	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
10/17/2024 20:27	65004	NEFF_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
10/17/2024 20:27	48901	FOSP_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
10/17/2024 20:27	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:27	66501	SMAN_T2	29	0	-29	0.13	0	-0.13	0	0	0	0	0	0	0	0
10/17/2024 20:27	52006	LING_T2	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/17/2024 20:27	52002	LING_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:27	13701	SCHN_T2	0	0	0	0	0	0	-0.13	-0.18	1	1	0	600	600	0
10/17/2024 20:27	64602	LEOL_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
10/17/2024 20:27	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:27	10801	CHHI_T1	0	0	0	0	0	0	-1.01	-1.06	1	1	0	900	900	0
10/17/2024 20:27	67605	WARW_T1	15	19	4	0.51	0.51	0	0	0	0	0	0	0	0	0
10/17/2024 20:27	65003	NEFF_T2	41	21	-20	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
10/17/2024 20:27	21504	CEAV_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/17/2024 20:27	66505	SMAN_T2	3	3	0	1.47	1.57	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:28	66502	SMAN_T2	10	0	-10	0.12	0	-0.12	-0.2	-0.08	0	0	0	0	0	0
10/17/2024 20:28	48902	FOSP_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
10/17/2024 20:28	54203	PENN_T1	20	19	-1	1.25	1.38	0.13	0	0	0	0	0	0	0	0
10/17/2024 20:28	51302	WIND_T2	0	0	0	0	0	0	-0.07	0	0	0	0	0	0	0
10/17/2024 20:28	66501	SMAN_T2	29	0	-29	0.13	0	-0.13	0	0	0	0	0	0	0	0
10/17/2024 20:28	66505	SMAN_T2	3	3	0	1.47	1.57	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:28	44302	BEAV_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
10/17/2024 20:28	54505	ENOL_T2	1	1	0	1	0.9	-0.1	-1.35	-1.37	1	1	0	600	600	0
10/17/2024 20:28	50201	HARR_T3	1	1	0	8.9	10	1.1	0	0	1	1	0	1200	1200	0
10/17/2024 20:28	48901	FOSP_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
10/17/2024 20:28	45801	HEGI_T1	0	0	0	0	0	0	-0.29	-0.3	1	1	0	900	900	0
10/17/2024 20:28	64204	KINZ_T1	9	21	12	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
10/17/2024 20:28	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:28	44702	MUNC_T2	7	1	-6	0.16	0.2	0.04	0	0	0	0	0	0	0	0
10/17/2024 20:28	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:28	15203	SFAR_T2	0	0	0	0	0	0	-2.72	-2.76	0	0	0	0	0	0
10/17/2024 20:28	64704	LITI_T1	0	0	0	0	0	0	0.96	0.94	0	0	0	0	0	0
10/17/2024 20:28	54201	PENN_T1	26	14	-12	0.38	0.66	0.28	0	0	0	0	0	0	0	0
10/17/2024 20:28	23403	HONE_T1	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
10/17/2024 20:28	45901	AUBU_T1	0	0	0	0	0	0	1.46	1.47	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/17/2024 20:28	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:28	51305	WIND_T1	0	0	0	0	0	0	0.05	0.09	0	0	0	0	0	0
10/17/2024 20:28	44701	MUNC_T2	27	5	-22	0.14	0.16	0.02	0	0	0	0	0	0	0	0
10/17/2024 20:28	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:28	50202	HARR_T3	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/17/2024 20:28	14204	EALL_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
10/17/2024 20:28	50105	HARR_T3	6	6	0	6.03	6.17	0.14	0	0	0	0	0	0	0	0
10/17/2024 20:28	54502	ENOL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
10/17/2024 20:28	64202	KINZ_T1	3	9	6	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
10/17/2024 20:28	21206	ECAR_T2	1	1	0	6.1	6.3	0.2	1.31	1.3	0	0	0	0	0	0
10/17/2024 20:28	44703	MUNC_T2	2	2	0	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
10/17/2024 20:28	54205	PENN_T1	17	12	-5	0.1	0.1	0	0	0	0	0	0	0	0	0
10/17/2024 20:28	64201	KINZ_T1	5	5	0	0.36	0.52	0.16	-0.5	-0.56	2	2	0	1200	1200	0
10/17/2024 20:28	50107	HARR_T3	1	1	0	7.5	7.6	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:28	67002	STHI_T2	1	1	0	0.1	0.1	0	1	1	0	0	0	0	0	0
10/17/2024 20:28	67605	WARW_T1	15	19	4	0.51	0.51	0	0	0	0	0	0	0	0	0
10/17/2024 20:28	67604	WARW_T1	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
10/17/2024 20:28	24702	FLND_T2	0	0	0	0	0	0	-0.01	-0.02	1	1	0	1200	1200	0
10/17/2024 20:28	63501	HEID_TBK1-2	34	24	-10	0.39	0.19	-0.2	0.32	0.35	0	0	0	0	0	0
10/17/2024 20:28	23404	HONE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:28	50103	HARR_T3	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/17/2024 20:28	67401	WAKE_T2	0	0	0	0	0	0	-0.93	-0.91	0	0	0	0	0	0
10/17/2024 20:28	57505	LAWN_T3	2	0	-2	0.15	0	-0.15	0.5	0.5	0	0	0	0	0	0
10/17/2024 20:28	67001	STHI_T2	4	1	-3	0.15	0.2	0.05	0	0	0	0	0	0	0	0
10/17/2024 20:29	59301	MCAL_T1	1	2	1	0.3	0.8	0.5	-1.27	-1.29	0	0	0	0	0	0
10/17/2024 20:29	67502	WEWI_T2	39	11	-28	0.13	0.1	-0.03	-0.51	-0.51	0	0	0	0	0	0
10/17/2024 20:29	13302	ORVI_T2	2	0	-2	0.1	0	-0.1	1.38	1.33	0	0	0	0	0	0
10/17/2024 20:29	65503	MOJO_T2	199	37	-162	0.2	0.12	-0.08	-0.44	-0.45	0	0	0	0	0	0
10/17/2024 20:29	57004	WHHI_T2	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
10/17/2024 20:29	67103	SPRI_T1	0	0	0	0	0	0	-0.14	-0.1	0	0	0	0	0	0
10/17/2024 20:29	65502	MOJO_T2	307	249	-58	0.3	0.16	-0.14	-1.07	-1.01	0	0	0	0	0	0
10/17/2024 20:29	40601	PIGR_T1	165	157	-8	0.29	0.27	-0.02	-0.18	-0.21	0	0	0	0	0	0
10/17/2024 20:29	57006	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:29	52502	PROG_T2	0	0	0	0	0	0	-0.73	-0.71	1	1	0	900	900	0
10/17/2024 20:29	64305	LINC_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
10/17/2024 20:29	67503	WEWI_T2	1	1	0	7.6	8	0.4	0	0	0	0	0	0	0	0
10/17/2024 20:29	67605	WARW_T1	15	19	4	0.51	0.51	0	-1.17	-1.18	0	0	0	0	0	0
10/17/2024 20:29	60101	COCA_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
10/17/2024 20:29	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
10/17/2024 20:29	40602	PIGR_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:29	57003	WHHI_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
10/17/2024 20:29	55002	NEWP_T1	4	4	0	0.88	0.83	-0.05	-0.26	-0.27	0	0	0	0	0	0
10/17/2024 20:29	67401	WAKE_T2	0	0	0	0	0	0	-0.93	-0.91	0	0	0	0	0	0
10/17/2024 20:29	48302	ORWI_T2	2	2	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:29	53501	EVIL_T2	1	1	0	0.2	0.3	0.1	-0.35	-0.37	0	0	0	0	0	0
10/17/2024 20:29	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:29	51306	WIND_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
10/17/2024 20:29	60201	ATGL_T2	57	98	41	0.25	0.26	0.01	-0.24	-0.29	0	0	0	0	0	0
10/17/2024 20:29	44301	BEAV_T2	0	0	0	0	0	0	-0.37	-0.47	1	1	0	600	600	0
10/17/2024 20:30	44502	HAMI_T2	1	1	0	3.7	3.6	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:30	50504	MECH_T1	98	161	63	0.15	0.16	0.01	0	0	0	0	0	0	0	0
10/17/2024 20:30	65502	MOJO_T2	249	97	-152	0.16	0.11	-0.05	0	0	0	0	0	0	0	0
10/17/2024 20:30	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:30	54206	PENN_T2	16	55	39	0.1	0.12	0.02	-0.04	-0.08	0	0	0	0	0	0
10/17/2024 20:30	43506	WWIL_T1	2	3	1	1.1	0.77	-0.33	0	0	0	0	0	0	0	0
10/17/2024 20:30	42903	MIDD_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
10/17/2024 20:30	54204	PENN_T2	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
10/17/2024 20:30	42902	MIDD_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
10/17/2024 20:30	64802	MONE_T2	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
10/17/2024 20:30	45501	DERR_T2	1	0	-1	1	0	-1	0.85	0.81	2	2	0	1800	1800	0
10/17/2024 20:30	55002	NEWP_T1	3	4	1	0.77	0.9	0.13	0	0	0	0	0	0	0	0
10/17/2024 20:30	11901	ETEX_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
10/17/2024 20:30	46004	BERW_T2	0	0	0	0	0	0	-0.42	-0.47	0	0	0	0	0	0
10/17/2024 20:30	54505	ENOL_T2	1	1	0	0.8	1	0.2	-2.7	-2.74	2	2	0	1200	1200	0
10/17/2024 20:30	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:30	54502	ENOL_T2	1	1	0	0.1	0.4	0.3	-1.4	-1.41	0	0	0	0	0	0
10/17/2024 20:30	65601	QVIL_T2	108	82	-26	0.21	0.19	-0.02	-1.35	-1.27	1	1	0	900	900	0
10/17/2024 20:30	48901	FOSP_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
10/17/2024 20:30	40601	PIGR_T1	0	134	134	0	0.28	0.28	0	0	0	0	0	0	0	0
10/17/2024 20:30	55001	NEWP_T1	0	0	0	0	0	0	-0.88	-0.84	0	0	0	0	0	0
10/17/2024 20:30	50501	MECH_T1	4	7	3	1.93	1.23	-0.7	-0.2	-0.22	0	0	0	0	0	0
10/17/2024 20:30	50502	MECH_T1	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
10/17/2024 20:30	50506	MECH_T1	4	31	27	0.1	0.11	0.01	-0.19	-0.18	0	0	0	0	0	0
10/17/2024 20:30	58402	MORO_T1	0	0	0	0	0	0	0.3	0.32	1	1	0	900	900	0
10/17/2024 20:30	28403	HART_T2	0	0	0	0	0	0	-1	-0.98	1	1	0	900	900	0
10/17/2024 20:30	65602	QVIL_T2	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
10/17/2024 20:30	67605	WARW_T1	16	20	4	0.53	0.52	-0.01	0	0	0	0	0	0	0	0
10/17/2024 20:30	44504	HAMI_T2	0	0	0	0	0	0	-1.31	-1.27	0	0	0	0	0	0
10/17/2024 20:30	57401	SPAN_T1	2	2	0	0.85	0.95	0.1	-0.36	-0.4	1	1	0	600	600	0
10/17/2024 20:30	50503	MECH_T1	0	21	21	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:30	40602	PIGR_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
10/17/2024 20:30	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:30	54202	PENN_T2	1	15	14	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/17/2024 20:30	57201	ROSS_T1	0	8	8	0	0.11	0.11	-0.55	-0.69	0	0	0	0	0	0
10/17/2024 20:30	50505	MECH_T1	0	15	15	0	0.14	0.14	0	0	0	0	0	0	0	0
10/17/2024 20:30	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
10/17/2024 20:30	57403	SPAN_T1	8	24	16	0.2	0.27	0.07	0	0	0	0	0	0	0	0
10/17/2024 20:30	43505	WWIL_T1	1	1	0	2.5	2.5	0	0	0	0	0	0	0	0	0
10/17/2024 20:30	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:30	65603	QVIL_T2	12	5	-7	0.23	0.14	-0.09	0	0	0	0	0	0	0	0
10/17/2024 20:30	43504	WWIL_T1	15	15	0	0.43	0.5	0.07	0.52	0.51	0	0	0	0	0	0
10/17/2024 20:30	65503	MOJO_T2	37	3	-34	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
10/17/2024 20:31	57401	SPAN_T1	2	2	0	0.85	0.95	0.1	-0.36	-0.4	1	1	0	600	600	0
10/17/2024 20:31	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:31	63501	HEID_TBK1-2	24	21	-3	0.3	0.17	-0.13	0.32	0.35	0	0	0	0	0	0
10/17/2024 20:31	42903	MIDD_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
10/17/2024 20:31	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:31	52001	LING_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
10/17/2024 20:31	11904	ETEX_T2	0	0	0	0	0	0	0.2	0.12	0	0	0	0	0	0
10/17/2024 20:31	57201	ROSS_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
10/17/2024 20:31	54601	SUMM_T2	12	13	1	0.38	0.69	0.31	-2.88	-3.01	2	2	0	2100	2100	0
10/17/2024 20:31	46506	LOHA_T1	3	3	0	4.9	4.77	-0.13	0	0	0	0	0	0	0	0
10/17/2024 20:31	50107	HARR_T3	1	1	0	7.9	7.6	-0.3	0	0	0	0	0	0	0	0
10/17/2024 20:31	51306	WIND_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
10/17/2024 20:31	46101	MACI_T2	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
10/17/2024 20:31	55508	HERS_T2	2	2	0	1.7	1.8	0.1	-5.25	-5.29	2	2	0	2400	2400	0
10/17/2024 20:31	57203	ROSS_T1	0	0	0	0	0	0	-0.74	-0.7	0	0	0	0	0	0
10/17/2024 20:31	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/17/2024 20:31	46801	HEPB_T2	2	2	0	0.5	0.55	0.05	0.96	0.92	0	0	0	0	0	0
10/17/2024 20:31	40602	PIGR_T1	1	1	0	1.3	1.2	-0.1	-0.15	-0.19	2	2	0	1200	1200	0
10/17/2024 20:31	44502	HAMI_T2	1	1	0	3.7	3.6	-0.1	-0.94	-0.92	0	0	0	0	0	0
10/17/2024 20:31	60102	COCA_T1	0	0	0	0	0	0	-0.48	-0.34	2	2	0	1200	1200	0
10/17/2024 20:31	20603	GRWO_T2	12	18	6	0.15	0.2	0.05	0.35	0.33	0	0	0	0	0	0
10/17/2024 20:31	57403	SPAN_T1	8	24	16	0.2	0.27	0.07	0	0	0	0	0	0	0	0
10/17/2024 20:31	67106	SPRI_T2	0	0	0	0	0	0	-2	-2	2	2	0	1500	1500	0
10/17/2024 20:31	40601	PIGR_T1	140	178	38	0.24	0.27	0.03	0	0	0	0	0	0	0	0
10/17/2024 20:31	13303	ORVI_T1	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
10/17/2024 20:31	57402	SPAN_T2	0	0	0	0	0	0	-1.24	-1.26	0	0	0	0	0	0
10/17/2024 20:31	46503	LOHA_T1	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
10/17/2024 20:31	50105	HARR_T3	6	6	0	6.18	6.18	0	0	0	0	0	0	0	0	0
10/17/2024 20:31	50202	HARR_T3	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/17/2024 20:31	45501	DERR_T2	1	0	-1	1	0	-1	0.85	0.81	2	2	0	1800	1800	0
10/17/2024 20:31	44201	POIN_T1	0	0	0	0	0	0	-5.88	-5.8	6	6	0	6300	6300	0
10/17/2024 20:32	54601	SUMM_T2	12	13	1	0.38	0.69	0.31	-2.88	-3.01	2	2	0	2100	2100	0
10/17/2024 20:32	62105	ELAN_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
10/17/2024 20:32	53501	EVIL_T2	0	1	1	0	0.3	0.3	-0.35	-0.37	0	0	0	0	0	0
10/17/2024 20:32	66505	SMAN_T2	3	3	0	1.57	1.43	-0.14	0	0	0	0	0	0	0	0
10/17/2024 20:32	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
10/17/2024 20:32	40602	PIGR_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:32	54502	ENOL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
10/17/2024 20:32	24702	FLND_T2	0	0	0	0	0	0	-0.01	-0.02	1	1	0	1200	1200	0
10/17/2024 20:32	55002	NEWP_T1	3	4	1	0.77	0.9	0.13	-0.26	-0.27	0	0	0	0	0	0
10/17/2024 20:32	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:32	55001	NEWP_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
10/17/2024 20:32	67605	WARW_T1	16	20	4	0.53	0.52	-0.01	-1.17	-1.18	0	0	0	0	0	0
10/17/2024 20:32	55508	HERS_T2	2	2	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:32	59402	RFLD_T2	0	0	0	0	0	0	-0.91	-0.91	1	1	0	450	450	0
10/17/2024 20:32	54503	ENOL_T2	0	0	0	0	0	0	-0.45	-0.45	1	1	0	600	600	0
10/17/2024 20:32	40601	PIGR_T1	140	178	38	0.24	0.27	0.03	0	0	0	0	0	0	0	0
10/17/2024 20:32	59301	MCAL_T1	2	2	0	0.3	0.8	0.5	-1.27	-1.29	0	0	0	0	0	0
10/17/2024 20:33	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
10/17/2024 20:33	54502	ENOL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
10/17/2024 20:33	50502	MECH_T1	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
10/17/2024 20:33	20603	GRWO_T2	12	18	6	0.15	0.2	0.05	0	0	0	0	0	0	0	0
10/17/2024 20:33	50623	CCTY_T2	5	5	0	5.5	5.44	-0.06	0	0	0	0	0	0	0	0
10/17/2024 20:33	54601	SUMM_T2	12	13	1	0.38	0.69	0.31	0	0	0	0	0	0	0	0
10/17/2024 20:33	67002	STHI_T2	0	1	1	0	0.1	0.1	0.5	0.5	0	0	0	0	0	0
10/17/2024 20:33	63501	HEID_TBK1-2	24	21	-3	0.3	0.17	-0.13	0.32	0.35	0	0	0	0	0	0
10/17/2024 20:33	54603	SUMM_T2	0	0	0	0	0	0	-0.57	-0.6	1	1	0	900	900	0
10/17/2024 20:33	50501	MECH_T1	4	7	3	1.93	1.23	-0.7	0	0	0	0	0	0	0	0
10/17/2024 20:33	11301	EMMA_T1	0	0	0	0	0	0	-0.84	-0.89	0	0	0	0	0	0
10/17/2024 20:33	20601	GRWO_T2	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
10/17/2024 20:33	14204	EALL_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
10/17/2024 20:33	50504	MECH_T1	98	161	63	0.15	0.16	0.01	0	0	0	0	0	0	0	0
10/17/2024 20:33	44701	MUNC_T2	5	5	0	0.16	0.18	0.02	0	0	0	0	0	0	0	0
10/17/2024 20:33	44702	MUNC_T2	1	10	9	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/17/2024 20:33	50624	CCTY_T2	2	2	0	5.65	5.55	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:33	50505	MECH_T1	0	15	15	0	0.14	0.14	0	0	0	0	0	0	0	0
10/17/2024 20:33	67001	STHI_T2	1	1	0	0.2	0.2	0	0.03	0.04	0	0	0	0	0	0
10/17/2024 20:33	50625	CCTY_T2	5	5	0	2.7	2.68	-0.02	0	0	0	0	0	0	0	0
10/17/2024 20:33	53501	EVIL_T2	0	1	1	0	0.3	0.3	-0.35	-0.37	0	0	0	0	0	0
10/17/2024 20:33	50503	MECH_T1	0	21	21	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:33	44703	MUNC_T2	2	2	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/17/2024 20:33	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:33	60201	ATGL_T2	91	87	-4	0.24	0.26	0.02	-0.24	-0.29	0	0	0	0	0	0
10/17/2024 20:33	13704	SCHN_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
10/17/2024 20:33	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:33	54505	ENOL_T2	1	1	0	0.8	1	0.2	-1.35	-1.37	1	1	0	600	600	0
10/17/2024 20:33	50506	MECH_T1	4	31	27	0.1	0.11	0.01	-0.19	-0.18	0	0	0	0	0	0
10/17/2024 20:33	64303	LINC_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
10/17/2024 20:33	18001	ZION_T1	2	2	0	9.4	9.7	0.3	0	0	0	0	0	0	0	0
10/17/2024 20:34	50505	MECH_T1	0	15	15	0	0.14	0.14	-1.01	-0.98	0	0	0	0	0	0
10/17/2024 20:34	40601	PIGR_T1	140	178	38	0.24	0.27	0.03	-0.18	-0.21	0	0	0	0	0	0
10/17/2024 20:34	50501	MECH_T1	4	7	3	1.93	1.23	-0.7	0	0	0	0	0	0	0	0
10/17/2024 20:34	54502	ENOL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
10/17/2024 20:34	67001	STHI_T2	1	1	0	0.2	0.2	0	0.03	0.04	0	0	0	0	0	0
10/17/2024 20:34	44301	BEAV_T2	0	0	0	0	0	0	-0.37	-0.47	1	1	0	600	600	0
10/17/2024 20:34	67002	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:34	60101	COCA_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
10/17/2024 20:34	54201	PENN_T1	9	26	17	0.73	0.44	-0.29	0	0	0	0	0	0	0	0
10/17/2024 20:34	50503	MECH_T1	0	21	21	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:34	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:34	40602	PIGR_T1	1	1	0	1.3	1.2	-0.1	-0.08	-0.09	1	1	0	600	600	0
10/17/2024 20:34	60201	ATGL_T2	91	87	-4	0.24	0.26	0.02	-0.24	-0.29	0	0	0	0	0	0
10/17/2024 20:34	54601	SUMM_T2	12	13	1	0.38	0.69	0.31	0	0	0	0	0	0	0	0
10/17/2024 20:34	64704	LITI_T1	0	0	0	0	0	0	0.96	0.94	0	0	0	0	0	0
10/17/2024 20:34	54603	SUMM_T2	0	0	0	0	0	0	-0.57	-0.6	1	1	0	900	900	0
10/17/2024 20:34	67402	WAKE_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
10/17/2024 20:34	50506	MECH_T1	4	31	27	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/17/2024 20:34	42903	MIDD_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
10/17/2024 20:34	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:34	50502	MECH_T1	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
10/17/2024 20:34	46001	BERW_T1	0	0	0	0	0	0	0.58	0.52	0	0	0	0	0	0
10/17/2024 20:34	44505	HAMI_T2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
10/17/2024 20:34	54504	ENOL_T2	0	0	0	0	0	0	-2.32	-2.34	2	2	0	1200	1200	0
10/17/2024 20:34	54206	PENN_T2	16	55	39	0.1	0.12	0.02	-0.04	-0.08	0	0	0	0	0	0
10/17/2024 20:34	57003	WHHI_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
10/17/2024 20:34	54202	PENN_T2	1	15	14	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/17/2024 20:34	42902	MIDD_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
10/17/2024 20:34	54203	PENN_T1	18	23	5	1.31	1.22	-0.09	0.86	0.87	0	0	0	0	0	0
10/17/2024 20:34	44502	HAMI_T2	1	1	0	3.7	3.6	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:34	46801	HEPB_T2	2	2	0	0.5	0.55	0.05	0.48	0.46	0	0	0	0	0	0
10/17/2024 20:34	54205	PENN_T1	0	18	18	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:34	63501	HEID_TBK1-2	24	21	-3	0.3	0.17	-0.13	0.32	0.35	0	0	0	0	0	0
10/17/2024 20:34	54505	ENOL_T2	1	1	0	0.8	1	0.2	-1.35	-1.37	1	1	0	600	600	0
10/17/2024 20:34	54204	PENN_T2	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
10/17/2024 20:34	67401	WAKE_T2	0	0	0	0	0	0	-0.93	-0.91	0	0	0	0	0	0
10/17/2024 20:34	46004	BERW_T2	0	0	0	0	0	0	-0.42	-0.47	0	0	0	0	0	0
10/17/2024 20:34	50504	MECH_T1	98	161	63	0.15	0.16	0.01	0	0	0	0	0	0	0	0
10/17/2024 20:34	57002	WHHI_T2	0	0	0	0	0	0	-1.71	-1.69	1	1	0	1200	1200	0
10/17/2024 20:35	50202	HARR_T3	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/17/2024 20:35	42902	MIDD_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
10/17/2024 20:35	50506	MECH_T1	4	31	27	0.1	0.11	0.01	-0.19	-0.18	0	0	0	0	0	0
10/17/2024 20:35	57003	WHHI_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
10/17/2024 20:35	50503	MECH_T1	0	21	21	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:35	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/17/2024 20:35	55503	HERS_T1	0	0	0	0	0	0	-1.64	-1.64	1	1	0	1200	1200	0
10/17/2024 20:35	42903	MIDD_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
10/17/2024 20:35	50501	MECH_T1	4	7	3	1.93	1.23	-0.7	0	0	0	0	0	0	0	0
10/17/2024 20:35	44201	POIN_T1	0	0	0	0	0	0	-1.96	-1.93	2	2	0	2100	2100	0
10/17/2024 20:35	40601	PIGR_T1	140	178	38	0.24	0.27	0.03	0	0	0	0	0	0	0	0
10/17/2024 20:35	50505	MECH_T1	0	15	15	0	0.14	0.14	0	0	0	0	0	0	0	0
10/17/2024 20:35	43801	SWIL_T1	2	2	0	3.3	3.25	-0.05	0	0	0	0	0	0	0	0
10/17/2024 20:35	50105	HARR_T3	6	6	0	6.18	6.18	0	0	0	0	0	0	0	0	0
10/17/2024 20:35	67401	WAKE_T2	0	0	0	0	0	0	-0.93	-0.91	0	0	0	0	0	0
10/17/2024 20:35	64201	KINZ_T1	5	6	1	0.36	0.48	0.12	0	0	0	0	0	0	0	0
10/17/2024 20:35	64802	MONE_T2	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
10/17/2024 20:35	64202	KINZ_T1	5	9	4	0.36	0.43	0.07	0	0	0	0	0	0	0	0
10/17/2024 20:35	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
10/17/2024 20:35	55501	HERS_T1	52	52	0	0.5	0.72	0.22	0	0	0	0	0	0	0	0
10/17/2024 20:35	14802	TREI_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
10/17/2024 20:35	43802	SWIL_T1	0	0	0	0	0	0	-0.25	-0.24	1	1	0	600	600	0
10/17/2024 20:35	40602	PIGR_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:35	55507	HERS_T1	49	59	10	0.3	0.33	0.03	0	0	0	0	0	0	0	0
10/17/2024 20:35	46004	BERW_T2	0	0	0	0	0	0	-0.42	-0.47	0	0	0	0	0	0
10/17/2024 20:35	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
10/17/2024 20:35	46203	DANV_T2	0	0	0	0	0	0	0.45	0.5	0	0	0	0	0	0
10/17/2024 20:35	57002	WHHI_T2	0	0	0	0	0	0	-1.71	-1.69	1	1	0	1200	1200	0
10/17/2024 20:35	50502	MECH_T1	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
10/17/2024 20:35	64204	KINZ_T1	15	22	7	0.2	0.22	0.02	0	0	0	0	0	0	0	0
10/17/2024 20:35	50504	MECH_T1	98	161	63	0.15	0.16	0.01	0	0	0	0	0	0	0	0
10/17/2024 20:35	50107	HARR_T3	1	1	0	7.9	7.6	-0.3	0	0	0	0	0	0	0	0
10/17/2024 20:35	65003	NEFF_T2	12	21	9	0.18	0.16	-0.02	-2.19	-2.15	2	2	0	1800	1800	0
10/17/2024 20:36	64201	KINZ_T1	5	6	1	0.36	0.48	0.12	0	0	0	0	0	0	0	0
10/17/2024 20:36	52501	PROG_T1	0	0	0	0	0	0	0.7	0.74	0	0	0	0	0	0
10/17/2024 20:36	64203	KINZ_T1	0	0	0	0	0	0	0.48	0.51	0	0	0	0	0	0
10/17/2024 20:36	50504	MECH_T1	98	161	63	0.15	0.16	0.01	0	0	0	0	0	0	0	0
10/17/2024 20:36	64204	KINZ_T1	15	22	7	0.2	0.22	0.02	0	0	0	0	0	0	0	0
10/17/2024 20:36	58401	MORO_T1	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
10/17/2024 20:36	67803	WLAN_T1	0	108	108	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:36	65601	QVIL_T2	108	82	-26	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
10/17/2024 20:36	67605	WARW_T1	16	20	4	0.53	0.52	-0.01	-1.18	-1.15	0	0	0	0	0	0
10/17/2024 20:36	57201	ROSS_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
10/17/2024 20:36	50502	MECH_T1	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
10/17/2024 20:36	50506	MECH_T1	4	31	27	0.1	0.11	0.01	-0.19	-0.18	0	0	0	0	0	0
10/17/2024 20:36	57403	SPAN_T1	8	24	16	0.2	0.27	0.07	0.03	-0.01	0	0	0	0	0	0
10/17/2024 20:36	44302	BEAV_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
10/17/2024 20:36	57203	ROSS_T1	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
10/17/2024 20:36	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:36	50505	MECH_T1	0	15	15	0	0.14	0.14	0	0	0	0	0	0	0	0
10/17/2024 20:36	65503	MOJO_T2	37	3	-34	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
10/17/2024 20:36	62102	ELAN_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
10/17/2024 20:36	57401	SPAN_T1	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:36	58402	MORO_T1	0	0	0	0	0	0	0.3	0.32	1	1	0	900	900	0
10/17/2024 20:36	67805	WLAN_T1	316	338	22	0.3	0.29	-0.01	-1.54	-1.58	0	0	0	0	0	0
10/17/2024 20:36	57106	SPHI_T2	3	3	0	1.77	1.87	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:36	50503	MECH_T1	0	21	21	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:36	65603	QVIL_T2	12	5	-7	0.23	0.14	-0.09	0.08	0.08	0	0	0	0	0	0
10/17/2024 20:36	50501	MECH_T1	4	7	3	1.93	1.23	-0.7	0	0	0	0	0	0	0	0
10/17/2024 20:36	57101	SPHI_T2	5	5	0	1.36	1.5	0.14	0	0	0	0	0	0	0	0
10/17/2024 20:36	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:36	57104	SPHI_T2	2	4	2	0.4	0.45	0.05	-1.9	-1.89	1	1	0	900	900	0
10/17/2024 20:36	65502	MOJO_T2	249	97	-152	0.16	0.11	-0.05	-1.01	-1.01	0	0	0	0	0	0
10/17/2024 20:36	42903	MIDD_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
10/17/2024 20:36	44502	HAMI_T2	1	1	0	3.7	3.6	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:36	46001	BERW_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
10/17/2024 20:36	64202	KINZ_T1	5	9	4	0.36	0.43	0.07	0	0	0	0	0	0	0	0
10/17/2024 20:36	42902	MIDD_T2	0	0	0	0	0	0	-0.27	-0.34	0	0	0	0	0	0
10/17/2024 20:37	44301	BEAV_T2	0	0	0	0	0	0	-0.47	-0.5	1	1	0	600	600	0
10/17/2024 20:37	50504	MECH_T1	98	161	63	0.15	0.16	0.01	0	0	0	0	0	0	0	0
10/17/2024 20:37	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:37	59402	RELD_T2	0	0	0	0	0	0	-0.91	-0.93	1	1	0	450	450	0
10/17/2024 20:37	53501	EVIL_T2	0	1	1	0	0.3	0.3	-0.73	-0.69	0	0	0	0	0	0
10/17/2024 20:37	50503	MECH_T1	0	21	21	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:37	55002	NEWP_T1	3	4	1	0.77	0.9	0.13	0	0	0	0	0	0	0	0
10/17/2024 20:37	52004	LING_T2	2	2	0	6.05	6.15	0.1	0.12	0.12	0	0	0	0	0	0
10/17/2024 20:37	57003	WHHI_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
10/17/2024 20:37	52002	LING_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/17/2024 20:37	50506	MECH_T1	4	31	27	0.1	0.11	0.01	-0.18	-0.18	0	0	0	0	0	0
10/17/2024 20:37	65502	MOJO_T2	249	97	-152	0.16	0.11	-0.05	0	0	0	0	0	0	0	0
10/17/2024 20:37	50502	MECH_T1	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
10/17/2024 20:37	50501	MECH_T1	4	7	3	1.93	1.23	-0.7	0	0	0	0	0	0	0	0
10/17/2024 20:37	50505	MECH_T1	0	15	15	0	0.14	0.14	0	0	0	0	0	0	0	0
10/17/2024 20:37	55001	NEWP_T1	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
10/17/2024 20:37	52006	LING_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:37	65503	MOJO_T2	37	3	-34	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
10/17/2024 20:38	65603	QVIL_T2	12	5	-7	0.23	0.14	-0.09	0	0	0	0	0	0	0	0
10/17/2024 20:38	67401	WAKE_T2	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
10/17/2024 20:38	44302	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:38	67201	TEHI_T1	0	0	0	0	0	0	0.83	0.79	0	0	0	0	0	0
10/17/2024 20:38	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:38	53501	EVIL_T2	0	1	1	0	0.3	0.3	-0.37	-0.35	0	0	0	0	0	0
10/17/2024 20:38	58401	MORO_T1	0	0	0	0	0	0	-1.86	-1.77	0	0	0	0	0	0
10/17/2024 20:38	66505	SMAN_T2	3	3	0	1.57	1.43	-0.14	0	0	0	0	0	0	0	0
10/17/2024 20:38	66503	SMAN_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
10/17/2024 20:38	57004	WHHI_T2	0	0	0	0	0	0	-0.68	-0.71	0	0	0	0	0	0
10/17/2024 20:38	57401	SPAN_T1	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:38	65601	QVIL_T2	108	82	-26	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
10/17/2024 20:38	57403	SPAN_T1	8	24	16	0.2	0.27	0.07	-0.01	-0.01	0	0	0	0	0	0
10/17/2024 20:38	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:38	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 20:38	57003	WHHI_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
10/17/2024 20:39	44201	POIN_T1	0	0	0	0	0	0	-1.93	-1.81	2	2	0	2100	2100	0
10/17/2024 20:39	52002	LING_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/17/2024 20:39	59301	MCAL_T1	2	2	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
10/17/2024 20:39	65003	NEFF_T2	12	21	9	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
10/17/2024 20:39	65005	NEFF_T2	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
10/17/2024 20:39	52006	LING_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:39	52004	LING_T2	2	2	0	6.05	6.15	0.1	0.12	0.12	0	0	0	0	0	0
10/17/2024 20:39	64305	LINC_T1	0	0	0	0	0	0	-0.62	-0.67	0	0	0	0	0	0
10/17/2024 20:40	57201	ROSS_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
10/17/2024 20:40	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.46	0	0	0	0	0	0
10/17/2024 20:40	65502	MOJO_T2	249	97	-152	0.16	0.11	-0.05	-1.01	-1.01	0	0	0	0	0	0
10/17/2024 20:40	42903	MIDD_T2	2	2	0	0.4	0.6	0.2	-1.57	-1.57	1	1	0	1200	1200	0
10/17/2024 20:40	65503	MOJO_T2	37	3	-34	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
10/17/2024 20:40	57205	ROSS_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/17/2024 20:40	54502	ENOL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
10/17/2024 20:40	15703	TANN_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
10/17/2024 20:40	54505	ENOL_T2	1	1	0	0.8	1	0.2	-1.37	-1.37	1	1	0	600	600	0
10/17/2024 20:40	55002	NEWP_T1	3	4	1	0.77	0.9	0.13	-0.27	-0.28	0	0	0	0	0	0
10/17/2024 20:41	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/17/2024 20:41	50504	MECH_T1	98	161	63	0.15	0.16	0.01	0	0	0	0	0	0	0	0
10/17/2024 20:41	50502	MECH_T1	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
10/17/2024 20:41	50503	MECH_T1	0	21	21	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 20:41	65603	QVIL_T2	12	5	-7	0.23	0.14	-0.09	0	0	0	0	0	0	0	0
10/17/2024 20:41	50501	MECH_T1	4	7	3	1.93	1.23	-0.7	-0.22	-0.4	0	0	0	0	0	0
10/17/2024 20:41	65601	QVIL_T2	108	82	-26	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
10/17/2024 20:41	44302	BEAV_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
10/17/2024 20:41	50505	MECH_T1	0	15	15	0	0.14	0.14	0	0	0	0	0	0	0	0
10/17/2024 20:41	50506	MECH_T1	4	31	27	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/17/2024 20:42	55002	NEWP_T1	3	4	1	0.77	0.9	0.13	0	0	0	0	0	0	0	0
10/17/2024 20:42	55001	NEWP_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
10/17/2024 20:42	54204	PENN_T2	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
10/17/2024 20:42	54202	PENN_T2	1	15	14	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/17/2024 20:42	59301	MCAL_T1	2	2	0	0.3	0.8	0.5	-1.29	-1.3	0	0	0	0	0	0
10/17/2024 20:42	54206	PENN_T2	16	55	39	0.1	0.12	0.02	-0.08	-0.1	0	0	0	0	0	0
10/17/2024 20:44	60201	ATGL_T2	91	87	-4	0.24	0.26	0.02	0	0	0	0	0	0	0	0
10/17/2024 20:45	44301	BEAV_T2	0	0	0	0	0	0	-0.47	-0.5	1	1	0	600	600	0
10/17/2024 20:46	16102	BING_T2	16	17	1	0.22	0.4	0.18	0	0	0	0	0	0	0	0
10/17/2024 20:46	43802	SWIL_T1	0	0	0	0	0	0	-0.24	-0.23	1	1	0	600	600	0
10/17/2024 20:46	43801	SWIL_T1	2	6	4	3.3	1.15	-2.15	0	0	0	0	0	0	0	0
10/17/2024 20:46	16103	BING_T2	0	0	0	0	0	0	-1.05	-1.07	2	2	0	1500	1500	0
10/17/2024 20:47	44302	BEAV_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
10/17/2024 20:48	64903	MILL_T2	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
10/17/2024 20:50	44302	BEAV_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
10/17/2024 20:55	14801	TREI_T2	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
10/17/2024 21:01	60102	COCA_T1	0	0	0	0	0	0	0.02	-0.02	2	2	0	1200	1200	0
10/17/2024 21:06	64702	LITI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/17/2024 21:07	42902	MIDD_T2	0	0	0	0	0	0	-0.26	-0.34	0	0	0	0	0	0
10/17/2024 21:07	42903	MIDD_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/17/2024 21:11	64702	LITI_T2	0	1	1	0	0.1	0.1	-0.88	-0.9	0	0	0	0	0	0
10/17/2024 21:16	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2024 21:18	55001	NEWP_T1	0	0	0	0	0	0	-0.44	-0.49	0	0	0	0	0	0
10/17/2024 21:18	55002	NEWP_T1	4	5	1	1	1.08	0.08	0	0	0	0	0	0	0	0
10/17/2024 21:48	54602	SUMM_T2	9	17	8	0.23	0.44	0.21	0	0	0	0	0	0	0	0
10/17/2024 21:48	54601	SUMM_T2	11	13	2	0.83	0.84	0.01	-3.09	-3.05	2	2	0	2100	2100	0
10/17/2024 21:48	54603	SUMM_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
10/17/2024 21:56	67001	STHI_T2	1	65	64	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
10/17/2024 21:56	67002	STHI_T2	3	6	3	0.1	0.12	0.02	0.46	0.43	0	0	0	0	0	0
10/17/2024 22:12	13704	SCHN_T2	0	5	5	0	0.18	0.18	-0.49	-0.47	0	0	0	0	0	0
10/17/2024 22:19	50105	HARR_T3	6	6	0	6.28	6.1	-0.18	0	0	0	0	0	0	0	0
10/17/2024 22:19	50107	HARR_T3	1	1	0	7.5	7.7	0.2	0	0	0	0	0	0	0	0
10/17/2024 22:19	50201	HARR_T3	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/18/2024 8:06	54203	PENN_T1	18	256	238	0.51	0.27	-0.24	-0.55	-0.47	0	0	0	0	0	0
10/18/2024 8:06	54205	PENN_T1	0	76	76	0	0.29	0.29	0	0	0	0	0	0	0	0
10/18/2024 8:06	54201	PENN_T1	8	282	274	0.8	0.48	-0.32	0	0	0	0	0	0	0	0
10/18/2024 8:07	55002	NEWP_T1	3	5	2	0.6	0.72	0.12	-0.21	-0.2	0	0	0	0	0	0
10/18/2024 8:09	67103	SPRI_T1	0	0	0	0	0	0	-0.12	-0.16	0	0	0	0	0	0
10/18/2024 8:16	54503	ENOL_T2	0	0	0	0	0	0	-0.46	-0.48	1	1	0	600	600	0
10/18/2024 8:16	54502	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
10/18/2024 8:16	44801	EDAN_T2	95	167	72	0.32	0.47	0.15	-1.64	-1.61	0	0	0	0	0	0
10/18/2024 8:16	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
10/18/2024 8:26	55102	WERT_T2	0	0	0	0	0	0	-0.66	-0.73	2	2	0	1200	1200	0
10/18/2024 8:29	45502	DERR_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/18/2024 8:29	45501	DERR_T2	0	0	0	0	0	0	0.63	0.64	2	2	0	1800	1800	0
10/18/2024 8:30	45501	DERR_T2	0	1	1	0	0.1	0.1	0.63	0.64	2	2	0	1800	1800	0
10/18/2024 8:30	45502	DERR_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
10/18/2024 8:32	11202	ELHE_T2	0	0	0	0	0	0	0.37	0.4	1	1	0	1200	1200	0
10/18/2024 8:39	55002	NEWP_T1	5	5	0	0.72	0.86	0.14	-0.2	-0.2	0	0	0	0	0	0
10/18/2024 8:40	66202	SISP_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
10/18/2024 8:41	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 8:43	45901	AUBU_T1	0	0	0	0	0	0	1	1.01	0	0	0	0	0	0
10/18/2024 8:46	63501	HEID_TBK1-2	2	2	0	0.55	0.45	-0.1	0.49	0.48	0	0	0	0	0	0
10/18/2024 8:49	63501	HEID_TBK1-2	2	2	0	0.55	0.45	-0.1	0.49	0.48	0	0	0	0	0	0
10/18/2024 8:50	63501	HEID_TBK1-2	2	2	0	0.55	0.45	-0.1	0.49	0.48	0	0	0	0	0	0
10/18/2024 8:58	45902	AUBU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 8:58	42701	AUGU_T1	1	1	0	1.1	1.5	0.4	0	0	2	2	0	1800	1800	0
10/18/2024 8:58	45901	AUBU_T1	0	0	0	0	0	0	1.01	1	0	0	0	0	0	0
10/18/2024 9:00	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/18/2024 9:01	54502	ENOL_T2	8	3	-5	0.26	0.53	0.27	0	0	0	0	0	0	0	0
10/18/2024 9:01	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 9:01	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
10/18/2024 9:01	54503	ENOL_T2	0	0	0	0	0	0	-0.91	-0.92	2	2	0	1200	1200	0
10/18/2024 9:02	54502	ENOL_T2	8	3	-5	0.26	0.53	0.27	-2.13	-2.1	1	1	0	600	600	0
10/18/2024 9:02	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 9:02	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
10/18/2024 9:08	15201	SFAR_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
10/18/2024 9:09	67001	STHI_T2	1	97	96	0.2	0.11	-0.09	0	0	0	0	0	0	0	0
10/18/2024 9:09	67002	STHI_T2	1	16	15	0.4	0.25	-0.15	0.57	0.58	0	0	0	0	0	0
10/18/2024 9:10	15201	SFAR_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
10/18/2024 9:11	67503	WEWI_T2	1	1	0	8.8	8.8	0.2	0	0	0	0	0	0	0	0
10/18/2024 9:11	67502	WEWI_T2	0	101	101	0	0.17	0.17	-0.56	-0.61	0	0	0	0	0	0
10/18/2024 9:12	24201	PROV_T3	1	1	0	5.9	5.8	-0.1	0	0	1	1	0	1200	1200	0
10/18/2024 9:12	24204	PROV_T3	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
10/18/2024 9:12	46004	BERW_T2	0	6	6	0	0	0	-0.79	-0.77	0	0	0	0	0	0
10/18/2024 9:13	64602	LEOL_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
10/18/2024 9:13	67503	WEWI_T2	1	1	0	8.6	8.8	0.2	-0.21	-0.08	0	0	0	0	0	0
10/18/2024 9:13	67502	WEWI_T2	0	101	101	0	0.17	0.17	0	0	0	0	0	0	0	0
10/18/2024 9:14	44802	EDAN_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
10/18/2024 9:14	44801	EDAN_T2	158	210	52	0.51	0.65	0.14	-1.57	-1.61	0	0	0	0	0	0
10/18/2024 9:18	45702	LIND_T2	2	3	1	0.2	0.47	0.27	-0.58	-0.58	0	0	0	0	0	0
10/18/2024 9:18	45701	LIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 9:22	45702	LIND_T2	2	3	1	0.2	0.47	0.27	-0.58	-0.57	0	0	0	0	0	0
10/18/2024 9:22	41901	REED_T1	8	3	-5	0.33	0.13	-0.2	0	0	0	0	0	0	0	0
10/18/2024 9:22	65503	MOJO_T2	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
10/18/2024 9:22	45701	LIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 9:22	41902	REED_T1	0	0	0	0	0	0	0.98	0.97	0	0	0	0	0	0
10/18/2024 9:23	65206	PRIN_T4	1	16	15	6.9	0.11	-6.79	0	0	0	0	0	0	0	0
10/18/2024 9:23	65207	PRIN_T4	3	2	-1	0.63	0.6	-0.03	0	0	1	1	0	1200	1200	0
10/18/2024 9:24	41901	REED_T1	8	3	-5	0.33	0.13	-0.2	0	0	0	0	0	0	0	0
10/18/2024 9:24	41902	REED_T1	0	0	0	0	0	0	0.98	0.97	0	0	0	0	0	0
10/18/2024 9:26	41901	REED_T1	8	3	-5	0.33	0.13	-0.2	0	0	0	0	0	0	0	0
10/18/2024 9:26	41902	REED_T1	0	0	0	0	0	0	0.98	0.97	0	0	0	0	0	0
10/18/2024 9:28	42701	AUGU_T1	1	1	0	1.5	1.6	0.1	0	0	2	2	0	1800	1800	0
10/18/2024 9:35	51603	DUKE_T1	2	0	-2	0.1	0	-0.1	83.96	83.96	0	0	0	0	0	0
10/18/2024 9:36	45701	LIND_T2	0	1	1	0	0.2	0.2	-1.62	-1.62	0	0	0	0	0	0
10/18/2024 9:36	45702	LIND_T2	3	3	0	0.33	0.73	0.4	0	0	0	0	0	0	0	0
10/18/2024 9:36	13303	ORVI_T1	0	0	0	0	0	0	-0.25	-0.21	0	0	0	0	0	0
10/18/2024 9:37	64305	LINC_T1	0	0	0	0	0	0	-0.19	-0.29	0	0	0	0	0	0
10/18/2024 9:37	55002	NEWP_T1	7	7	0	1.1	1.2	0.1	-0.17	-0.16	0	0	0	0	0	0
10/18/2024 9:37	14201	EALL_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
10/18/2024 9:38	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 9:40	55002	NEWP_T1	7	7	0	1.1	1.2	0.1	-0.17	-0.16	0	0	0	0	0	0
10/18/2024 9:41	54601	SUMM_T2	13	13	0	0.56	0.58	0.02	-2.94	-3.02	2	2	0	2100	2100	0
10/18/2024 9:41	54602	SUMM_T2	9	12	3	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
10/18/2024 9:53	66501	SMAN_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/18/2024 9:53	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 9:53	66502	SMAN_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 9:56	20401	ASHF_T2	5	5	0	0.6	0.46	-0.14	0	0	0	0	0	0	0	0
10/18/2024 9:56	20402	ASHF_T2	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/18/2024 9:56	20403	ASHF_T2	4	3	-1	0.4	0.4	0	1.44	1.5	0	0	0	0	0	0
10/18/2024 9:57	20401	ASHF_T2	5	5	0	0.6	0.46	-0.14	0	0	0	0	0	0	0	0
10/18/2024 9:57	20402	ASHF_T2	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/18/2024 9:57	20403	ASHF_T2	4	3	-1	0.4	0.4	0	1.44	1.5	0	0	0	0	0	0
10/18/2024 9:58	46004	BERW_T2	0	1	1	0	0	0	-1.64	-1.54	0	0	0	0	0	0
10/18/2024 9:59	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 9:59	62605	ENGL_T1	7	10	3	0.23	0.2	-0.03	-0.93	-0.86	0	0	0	0	0	0
10/18/2024 9:59	62606	ENGL_T1	2	14	12	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 9:59	62607	ENGL_T1	5	5	0	0.16	0.24	0.08	0	0	0	0	0	0	0	0
10/18/2024 9:59	46001	BERW_T1	0	0	0	0	0	0	0.45	0.51	0	0	0	0	0	0
10/18/2024 10:00	45701	LIND_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/18/2024 10:00	50107	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 10:00	62601	ENGL_T1	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
10/18/2024 10:00	64904	MILL_T1	0	0	0	0	0	0	0.41	0.47	0	0	0	0	0	0
10/18/2024 10:00	67502	WEWI_T2	55	37	-18	0.21	0.26	0.05	0	0	0	0	0	0	0	0
10/18/2024 10:00	62607	ENGL_T1	5	3	-2	0.22	0.3	0.08	0	0	0	0	0	0	0	0
10/18/2024 10:00	50105	HARR_T3	6	6	0	5.65	5.63	-0.02	0	0	0	0	0	0	0	0
10/18/2024 10:00	64901	MILL_T1	16	11	-5	0.16	0.11	-0.05	0	0	0	0	0	0	0	0
10/18/2024 10:00	50201	HARR_T3	1	1	0	0.6	0.6	0	0	0	1	1	0	1200	1200	0
10/18/2024 10:00	50107	HARR_T3	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
10/18/2024 10:00	45702	LIND_T2	3	5	2	0.73	0.56	-0.17	-1.14	-1.16	0	0	0	0	0	0
10/18/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
10/18/2024 10:00	65503	MOJO_T2	0	0	0	0	0	0	-0.19	-0.18	0	0	0	0	0	0
10/18/2024 10:00	50103	HARR_T3	2	2	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
10/18/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.29	-0.18	0	0	0	0	0	0
10/18/2024 10:00	62606	ENGL_T1	14	0	-14	0.1	0	-0.1	-1	-1	1	1	0	900	900	0
10/18/2024 10:00	62602	ENGL_T1	0	1	1	0	0.1	0.1	0.09	0.09	0	0	0	0	0	0
10/18/2024 10:00	62605	ENGL_T1	10	5	-5	0.2	0.32	0.12	0	0	0	0	0	0	0	0
10/18/2024 10:00	67503	WEWI_T2	1	2	1	8.9	4.6	-4.3	-0.18	-0.18	0	0	0	0	0	0
10/18/2024 10:01	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 10:01	62607	ENGL_T1	5	3	-2	0.22	0.3	0.08	-1.79	-1.76	0	0	0	0	0	0
10/18/2024 10:01	62606	ENGL_T1	14	0	-14	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 10:01	62605	ENGL_T1	10	5	-5	0.2	0.32	0.12	0	0	0	0	0	0	0	0
10/18/2024 10:02	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 10:02	62607	ENGL_T1	5	3	-2	0.22	0.3	0.08	-0.9	-0.88	0	0	0	0	0	0
10/18/2024 10:02	62606	ENGL_T1	14	0	-14	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 10:02	62605	ENGL_T1	10	5	-5	0.2	0.32	0.12	-0.93	-0.86	0	0	0	0	0	0
10/18/2024 10:03	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 10:03	62606	ENGL_T1	14	0	-14	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/18/2024 10:03	62607	ENGL_T1	5	3	-2	0.22	0.3	0.08	0	0	0	0	0	0	0	0
10/18/2024 10:03	62605	ENGL_T1	10	5	-5	0.2	0.32	0.12	-0.93	-0.86	0	0	0	0	0	0
10/18/2024 10:04	62605	ENGL_T1	10	5	-5	0.2	0.32	0.12	-0.93	-0.86	0	0	0	0	0	0
10/18/2024 10:04	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 10:04	62606	ENGL_T1	14	0	-14	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 10:04	62607	ENGL_T1	5	3	-2	0.22	0.3	0.08	0	0	0	0	0	0	0	0
10/18/2024 10:06	62605	ENGL_T1	10	5	-5	0.2	0.32	0.12	0	0	0	0	0	0	0	0
10/18/2024 10:06	62606	ENGL_T1	14	0	-14	0.1	0	-0.1	-1	-1.02	1	1	0	900	900	0
10/18/2024 10:06	62602	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 10:06	62607	ENGL_T1	5	3	-2	0.22	0.3	0.08	0	0	0	0	0	0	0	0
10/18/2024 10:07	65601	QVIL_T2	29	22	-7	0.13	0.14	0.01	0	0	0	0	0	0	0	0
10/18/2024 10:07	65603	QVIL_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
10/18/2024 10:07	13303	ORVI_T1	0	1	1	0	0.1	0.1	-0.32	-0.25	0	0	0	0	0	0
10/18/2024 10:07	65602	QVIL_T2	4	4	0	2.1	0.2	-1.9	0	0	0	0	0	0	0	0
10/18/2024 10:08	67201	TEHI_T1	4	3	-1	0.2	0.37	0.17	0.91	1.04	1	1	0	900	900	0
10/18/2024 10:08	65601	QVIL_T2	29	22	-7	0.13	0.14	0.01	0	0	0	0	0	0	0	0
10/18/2024 10:08	65602	QVIL_T2	4	4	0	2.1	0.2	-1.9	0	0	0	0	0	0	0	0
10/18/2024 10:08	45701	LIND_T2	1	1	0	0.2	0.4	0.2	-1.61	-1.62	0	0	0	0	0	0
10/18/2024 10:08	45702	LIND_T2	3	5	2	0.73	0.56	-0.17	0	0	0	0	0	0	0	0
10/18/2024 10:10	13303	ORVI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 10:10	67103	SPRI_T1	0	0	0	0	0	0	-0.13	-0.1	0	0	0	0	0	0
10/18/2024 10:11	57003	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/18/2024 10:11	57002	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 10:12	20403	ASHF_T2	3	8	5	0.4	0.35	-0.05	1.5	1.35	0	0	0	0	0	0
10/18/2024 10:12	13704	SCHN_T2	0	1	1	0	0.3	0.3	-0.37	-0.39	0	0	0	0	0	0
10/18/2024 10:12	20402	ASHF_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
10/18/2024 10:12	13701	SCHN_T2	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
10/18/2024 10:12	57002	WHHI_T2	1	0	-1	0.1	0	-0.1	-1.6	-1.62	1	1	0	1200	1200	0
10/18/2024 10:12	20401	ASHF_T2	5	4	-1	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
10/18/2024 10:12	57003	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/18/2024 10:13	67605	WARW_T1	38	34	-4	0.47	0.5	0.03	-1.09	-1.08	0	0	0	0	0	0
10/18/2024 10:13	20403	ASHF_T2	3	8	5	0.4	0.35	-0.05	1.5	1.35	0	0	0	0	0	0
10/18/2024 10:13	46004	BERW_T2	1	1	0	0.1	0	-0.1	-0.77	-0.79	0	0	0	0	0	0
10/18/2024 10:13	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 10:13	20402	ASHF_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
10/18/2024 10:13	57002	WHHI_T2	1	0	-1	0.1	0	-0.1	-1.6	-1.62	1	1	0	1200	1200	0
10/18/2024 10:13	20401	ASHF_T2	5	4	-1	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
10/18/2024 10:13	57003	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/18/2024 10:14	15001	BLMO_T1	2	4	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/18/2024 10:14	67605	WARW_T1	38	34	-4	0.47	0.5	0.03	0	0	0	0	0	0	0	0
10/18/2024 10:14	46004	BERW_T2	1	1	0	0.1	0	-0.1	-0.77	-0.79	0	0	0	0	0	0
10/18/2024 10:14	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 10:14	57003	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/18/2024 10:14	57002	WHHI_T2	1	0	-1	0.1	0	-0.1	-1.6	-1.62	1	1	0	1200	1200	0
10/18/2024 10:15	15001	BLMO_T1	1	5	4	0.2	0.24	0.04	0	0	0	0	0	0	0	0
10/18/2024 10:15	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	1	1	0	900	900
10/18/2024 10:15	67603	WARW_T1	0	1	1	0	0.4	0.4	-0.03	0	0	0	0	0	0	0
10/18/2024 10:15	11203	ELHE_T1	0	0	0	0	0	0	0.9	0.88	0	0	0	0	0	0
10/18/2024 10:15	46001	BERW_T1	0	1	1	0	0.4	0.4	0.51	0.54	0	0	0	0	0	0
10/18/2024 10:15	67605	WARW_T1	34	39	5	0.5	0.5	0	-1.09	-1.08	0	0	0	0	0	0
10/18/2024 10:16	42701	AUGU_T1	2	5	3	0.95	0.56	-0.39	0	0	4	4	0	3600	3600	0
10/18/2024 10:16	46004	BERW_T2	0	2	2	0	0.1	0.1	-0.77	-0.79	0	0	0	0	0	0
10/18/2024 10:16	45902	AUBU_T1	1	1	0	0.1	0.3	0.2	0.1	0.02	1	1	0	600	600	0
10/18/2024 10:16	10801	CHHI_T1	1	1	0	0.2	0.2	0	-0.92	-0.81	1	1	0	900	900	0
10/18/2024 10:17	22901	HARW_T1	0	0	0	0	0	0	-0.36	-0.36	1	1	0	1200	1200	0
10/18/2024 10:17	46002	BERW_T2	0	0	0	0	0	0	-0.93	-0.87	1	1	0	900	900	0
10/18/2024 10:17	46004	BERW_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 10:19	45902	AUBU_T1	1	1	0	0.1	0.3	0.2	0.1	0.02	1	1	0	600	600	0
10/18/2024 10:19	46801	HEPB_T2	3	3	0	1.03	1.07	0.04	0	0	0	0	0	0	0	0
10/18/2024 10:19	46803	HEPB_T2	3	6	3	0.47	0.4	-0.07	0.45	0.44	0	0	0	0	0	0
10/18/2024 10:20	28403	HART_T2	0	3	3	0	0	0	-1.17	-1.19	1	1	0	900	900	0
10/18/2024 10:20	48901	FOSP_T2	0	0	0	0	0	0	0.02	0	1	1	0	600	600	0
10/18/2024 10:20	48902	FOSP_T2	2	0	-2	0.35	0	-0.35	-1.12	-0.13	2	1	-1	2400	1200	-1200
10/18/2024 10:20	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 10:23	64802	MONE_T2	22	68	46	0.23	0.26	0.03	0.29	0.29	0	0	0	0	0	0
10/18/2024 10:23	64801	MONE_T2	11	51	40	0.2	0.22	0.02	0	0	0	0	0	0	0	0
10/18/2024 10:24	48902	FOSP_T2	2	0	-2	0.35	0	-0.35	-0.13	0.63	1	0	-1	1200	0	-1200
10/18/2024 10:24	13701	SCHN_T2	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
10/18/2024 10:24	13704	SCHN_T2	1	1	0	0.1	0.3	0.2	-0.39	-0.38	0	0	0	0	0	0
10/18/2024 10:26	15204	SFAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 10:26	24201	PROV_T3	1	1	0	6.8	7.2	0.4	0	0	1	1	0	1200	1200	0
10/18/2024 10:26	15203	SFAR_T2	2	3	1	0.45	0.5	0.05	-1.34	-1.28	0	0	0	0	0	0
10/18/2024 10:26	13303	ORVI_T1	0	1	1	0	0.1	0.1	-0.25	-0.34	0	0	0	0	0	0
10/18/2024 10:26	24204	PROV_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
10/18/2024 10:28	13701	SCHN_T2	1	3	2	0.3	0.27	-0.03	-0.13	-0.09	1	1	0	600	600	0
10/18/2024 10:28	13704	SCHN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/18/2024 10:28	42701	AUGU_T1	2	5	3	0.95	0.56	-0.39	0	0	2	2	0	1800	1800	0
10/18/2024 10:29	42701	AUGU_T1	2	5	3	0.95	0.56	-0.39	0	0	2	2	0	1800	1800	0
10/18/2024 10:29	48302	ORWI_T2	2	2	0	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
10/18/2024 10:29	48303	ORWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 10:30	24202	PROV_T4	0	1	1	0	0	0	0	0	1	1	0	1200	1200	0
10/18/2024 10:31	15203	SFAR_T2	3	4	1	0.5	0.48	-0.02	-1.34	-1.28	0	0	0	0	0	0
10/18/2024 10:31	62602	ENGL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/18/2024 10:31	62605	ENGL_T1	5	21	16	0.26	0.25	-0.01	-0.84	-0.85	0	0	0	0	0	0
10/18/2024 10:31	15204	SFAR_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/18/2024 10:31	62606	ENGL_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
10/18/2024 10:31	63501	HEID_TBK1-2	2	6	4	0.6	0.53	-0.07	0.46	0.5	0	0	0	0	0	0
10/18/2024 10:31	62607	ENGL_T1	1	11	10	0.2	0.19	-0.01	-0.87	-0.86	0	0	0	0	0	0
10/18/2024 10:32	45902	AUBU_T1	1	2	1	0.3	0.2	-0.1	0.02	0.08	1	1	0	600	600	0
10/18/2024 10:32	54501	ENOL_T2	1	4	3	0.1	0.28	0.18	0	0	0	0	0	0	0	0
10/18/2024 10:32	54502	ENOL_T2	1	2	1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
10/18/2024 10:32	54506	ENOL_T2	0	0	0	0	0	0	0.42	0.43	1	1	0	600	600	0
10/18/2024 10:32	54505	ENOL_T2	2	2	0	0.6	0.95	0.35	0	0	0	0	0	0	0	0
10/18/2024 10:33	26704	HEML_T2	1	0	-1	0.1	0	-0.1	-0.83	-0.8	1	1	0	1200	1200	0
10/18/2024 10:33	62605	ENGL_T1	5	21	16	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
10/18/2024 10:33	45902	AUBU_T1	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/18/2024 10:33	62602	ENGL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/18/2024 10:33	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 10:33	20603	GRWO_T2	0	0	0	0	0	0	-0.69	-0.66	1	1	0	900	900	0
10/18/2024 10:33	62607	ENGL_T1	1	11	10	0.2	0.19	-0.01	-0.87	-0.86	0	0	0	0	0	0
10/18/2024 10:33	45901	AUBU_T1	0	0	0	0	0	0	1.04	1.01	0	0	0	0	0	0
10/18/2024 10:33	62606	ENGL_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
10/18/2024 10:34	63501	HEID_TBK1-2	2	6	4	0.6	0.53	-0.07	0.46	0.5	0	0	0	0	0	0
10/18/2024 10:35	65004	NEFF_T2	1	2	1	0.3	0.55	0.25	-0.53	-0.52	0	0	0	0	0	0
10/18/2024 10:35	65001	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 10:35	65003	NEFF_T2	1	8	7	0.2	0.21	0.01	-1.61	-1.65	2	2	0	1800	1800	0
10/18/2024 10:35	63502	HEID_TBK1-2	2	6	4	0.6	0.53	-0.07	0.46	0.5	0	0	0	0	0	0
10/18/2024 10:35	65005	NEFF_T2	1	2	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
10/18/2024 10:36	65004	NEFF_T2	1	2	1	0.3	0.55	0.25	0	0	0	0	0	0	0	0
10/18/2024 10:36	65005	NEFF_T2	1	2	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
10/18/2024 10:36	65001	NEFF_T2	0	1	1	0	0.1	0.1	0.56	0.5	0	0	0	0	0	0
10/18/2024 10:36	65003	NEFF_T2	1	8	7	0.2	0.21	0.01	0	0	0	0	0	0	0	0
10/18/2024 10:38	58401	MORO_T1	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
10/18/2024 10:40	57201	ROSS_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
10/18/2024 10:40	57203	ROSS_T1	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
10/18/2024 10:40	57205	ROSS_T1	2	2	0	0.6	0.95	0.35	0	0	0	0	0	0	0	0
10/18/2024 10:41	14704	TREX_T1	1	1	0	3.2	3.6	0.4	0	0	0	0	0	0	0	0
10/18/2024 10:41	57403	SPAN_T1	104	89	-15	0.26	0.3	0.04	-0.04	0	0	0	0	0	0	0
10/18/2024 10:41	14705	TREX_T1	0	0	0	0	0	0	0.43	-0.4	0	0	0	0	0	0
10/18/2024 10:41	57401	SPAN_T1	2	2	0	1.45	1.05	-0.4	0	0	0	0	0	0	0	0
10/18/2024 10:43	57403	SPAN_T1	104	89	-15	0.26	0.3	0.04	-0.04	0	0	0	0	0	0	0
10/18/2024 10:43	57401	SPAN_T1	2	2	0	1.45	1.05	-0.4	0	0	0	0	0	0	0	0
10/18/2024 10:45	46004	BERW_T2	1	2	1	0.1	0.45	0.35	-0.77	-0.69	0	0	0	0	0	0
10/18/2024 10:46	62605	ENGL_T1	18	17	-1	0.26	0.26	0	-0.85	-0.81	0	0	0	0	0	0
10/18/2024 10:46	62602	ENGL_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/18/2024 10:46	62607	ENGL_T1	5	11	6	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
10/18/2024 10:46	23403	HONE_T1	0	0	0	0	0	0	-0.72	-0.68	0	0	0	0	0	0
10/18/2024 10:46	62606	ENGL_T1	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/18/2024 10:47	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/18/2024 10:47	63602	LETO_T1	12	44	32	0.15	0.18	0.03	0	0	0	0	0	0	0	0
10/18/2024 10:47	63601	LETO_T1	5	5	0	0.26	0.52	0.26	0.91	0.9	1	1	0	900	900	0
10/18/2024 10:50	63602	LETO_T1	12	44	32	0.15	0.18	0.03	0	0	0	0	0	0	0	0
10/18/2024 10:50	63601	LETO_T1	5	5	0	0.26	0.52	0.26	0.91	0.9	1	1	0	900	900	0
10/18/2024 10:50	46803	HEPB_T2	6	9	3	0.4	0.31	-0.09	0	0	0	0	0	0	0	0
10/18/2024 10:50	46801	HEPB_T2	3	7	4	0.9	0.5	-0.4	0.55	0.54	0	0	0	0	0	0
10/18/2024 10:52	15204	SFAR_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
10/18/2024 10:52	15203	SFAR_T2	2	4	2	0.5	0.48	-0.02	-1.3	-1.3	0	0	0	0	0	0
10/18/2024 10:55	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.34	0	0	0	0	0	0
10/18/2024 10:55	15703	TANN_T2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
10/18/2024 10:55	17002	RIRO_T2	7	6	-1	0.41	0.55	0.14	0.59	0.67	0	0	0	0	0	0
10/18/2024 10:56	57201	ROSS_T1	2	4	2	0.15	0.18	0.03	0	0	0	0	0	0	0	0
10/18/2024 10:56	57005	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 10:56	57004	WHHI_T2	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
10/18/2024 10:56	43506	WWIL_T1	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
10/18/2024 10:56	54601	SUMM_T2	13	13	0	0.71	0.83	0.12	0	0	0	0	0	0	0	0
10/18/2024 10:56	43505	WWIL_T1	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
10/18/2024 10:56	57205	ROSS_T1	1	3	2	1.3	0.83	-0.47	0	0	0	0	0	0	0	0
10/18/2024 10:56	57203	ROSS_T1	0	1	1	0	0.2	0.2	-0.36	-0.39	0	0	0	0	0	0
10/18/2024 10:56	43504	WWIL_T1	5	7	2	0.16	0.33	0.17	0.55	0.54	0	0	0	0	0	0
10/18/2024 10:56	57003	WHHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/18/2024 10:56	54603	SUMM_T2	0	0	0	0	0	0	-0.41	-0.42	1	1	0	900	900	0
10/18/2024 10:56	54602	SUMM_T2	11	12	1	0.18	0.21	0.03	0	0	0	0	0	0	0	0
10/18/2024 10:57	54602	SUMM_T2	11	12	1	0.18	0.21	0.03	0	0	0	0	0	0	0	0
10/18/2024 10:57	54601	SUMM_T2	13	13	0	0.71	0.83	0.12	-2.96	-2.97	2	2	0	2100	2100	0
10/18/2024 10:58	15702	TANN_T2	0	0	0	0	0	0	-0.88	-0.68	0	0	0	0	0	0
10/18/2024 10:58	54602	SUMM_T2	11	12	1	0.18	0.21	0.03	0	0	0	0	0	0	0	0
10/18/2024 10:58	15703	TANN_T2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
10/18/2024 10:58	54601	SUMM_T2	13	13	0	0.71	0.83	0.12	-2.96	-2.97	2	2	0	2100	2100	0
10/18/2024 10:59	57203	ROSS_T1	0	1	1	0	0.2	0.2	-0.36	-0.39	0	0	0	0	0	0
10/18/2024 10:59	57205	ROSS_T1	1	3	2	1.3	0.83	-0.47	0	0	0	0	0	0	0	0
10/18/2024 10:59	57201	ROSS_T1	2	4	2	0.15	0.18	0.03	0	0	0	0	0	0	0	0
10/18/2024 11:00	46001	BERW_T1	1	1	0	0.4	0.7	0.3	0.49	0.49	0	0	0	0	0	0
10/18/2024 11:00	46005	BERW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/18/2024 11:01	46001	BERW_T1	1	1	0	0.4	0.7	0.3	0.49	0.49	0	0	0	0	0	0
10/18/2024 11:01	46005	BERW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 11:02	62607	ENGL_T1	11	3	-8	0.19	0.1	-0.09	0	0	0	0	0	0	0	0
10/18/2024 11:02	62602	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 11:02	62606	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 11:02	62605	ENGL_T1	17	2	-15	0.26	0.4	0.14	-0.81	-0.85	0	0	0	0	0	0
10/18/2024 11:05	62602	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 11:05	62607	ENGL_T1	11	3	-8	0.19	0.1	-0.09	0	0	0	0	0	0	0	0
10/18/2024 11:05	62606	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 11:05	62605	ENGL_T1	17	2	-15	0.26	0.4	0.14	-0.81	-0.85	0	0	0	0	0	0
10/18/2024 11:07	65503	MOJO_T2	1	1	0	0.2	0.1	-0.1	-0.19	-0.19	0	0	0	0	0	0
10/18/2024 11:08	65601	QVIL_T2	86	8	-78	0.21	0.25	0.04	-1.09	-1.1	1	1	0	900	900	0
10/18/2024 11:08	65602	QVIL_T2	37	4	-33	0.31	0.2	-0.11	0	0	0	0	0	0	0	0
10/18/2024 11:08	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 11:09	62605	ENGL_T1	17	2	-15	0.26	0.4	0.14	-0.85	-0.87	0	0	0	0	0	0
10/18/2024 11:09	62602	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 11:09	62606	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 11:09	62607	ENGL_T1	11	3	-8	0.19	0.1	-0.09	0	0	0	0	0	0	0	0
10/18/2024 11:13	42701	AUGU_T1	6	9	3	0.6	0.52	-0.08	0	0	6	6	0	5400	5400	0
10/18/2024 11:16	42701	AUGU_T1	6	9	3	0.58	0.49	-0.09	0	0	0	0	0	0	0	0
10/18/2024 11:19	25402	LAHA_T2	0	0	0	0	0	0	-0.38	-0.34	0	0	0	0	0	0
10/18/2024 11:20	58401	MORO_T1	0	1	1	0	0.3	0.3	-0.45	-0.49	0	0	0	0	0	0
10/18/2024 11:20	58402	MORO_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/18/2024 11:22	65503	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 11:22	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 11:24	54603	SUMM_T2	0	0	0	0	0	0	-0.44	-0.39	1	1	0	900	900	0
10/18/2024 11:24	54601	SUMM_T2	11	10	-1	0.66	0.96	0.3	0	0	0	0	0	0	0	0
10/18/2024 11:24	65502	MOJO_T2	0	0	0	0	0	0	-0.35	-0.43	0	0	0	0	0	0
10/18/2024 11:24	65503	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 11:24	54602	SUMM_T2	8	16	8	0.19	0.31	0.12	0	0	0	0	0	0	0	0
10/18/2024 11:26	60701	BREC_T1	0	0	0	0	0	0	-0.11	0.11	2	2	0	1200	1200	0
10/18/2024 11:28	21204	ECAR_T2	1	1	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
10/18/2024 11:28	67603	WARW_T1	1	5	4	0.6	0.44	-0.16	0	0	0	0	0	0	0	0
10/18/2024 11:28	21206	ECAR_T2	1	1	0	6.7	7	0.3	0	0	0	0	0	0	0	0
10/18/2024 11:28	60701	BREC_T1	0	0	0	0	0	0	-0.11	0.11	2	2	0	1200	1200	0
10/18/2024 11:28	67605	WARW_T1	31	51	20	0.57	0.57	0	-2.19	-2.08	0	0	0	0	0	0
10/18/2024 11:30	67605	WARW_T1	46	53	7	0.48	0.58	0.1	-1.09	-1.04	0	0	0	0	0	0
10/18/2024 11:30	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 11:30	67603	WARW_T1	2	5	3	0.45	0.48	0.03	0	0	0	0	0	0	0	0
10/18/2024 11:30	11202	ELHE_T2	0	0	0	0	0	0	0.37	0.43	1	1	0	1200	1200	0
10/18/2024 11:31	67603	WARW_T1	2	5	3	0.45	0.48	0.03	0	0	0	0	0	0	0	0
10/18/2024 11:31	67605	WARW_T1	46	53	7	0.48	0.58	0.1	-1.09	-1.04	0	0	0	0	0	0
10/18/2024 11:31	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 11:34	22602	KIMB_T1	1	2	1	0.1	5.1	5	0.31	0.33	0	0	0	0	0	0
10/18/2024 11:34	44502	HAMI_T2	3	3	0	1.4	1.47	0.07	-0.9	-0.9	0	0	0	0	0	0
10/18/2024 11:34	22601	KIMB_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/18/2024 11:34	44505	HAMI_T2	3	5	2	0.17	0.22	0.05	0	0	0	0	0	0	0	0
10/18/2024 11:37	65503	MOJO_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 11:37	65502	MOJO_T2	0	0	0	0	0	0	-0.43	-0.15	0	0	0	0	0	0
10/18/2024 11:38	65502	MOJO_T2	0	0	0	0	0	0	-0.43	-0.15	0	0	0	0	0	0
10/18/2024 11:38	65503	MOJO_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 11:39	67502	WEWI_T2	12	83	71	0.51	0.26	-0.25	0	0	0	0	0	0	0	0
10/18/2024 11:39	67503	WEWI_T2	1	4	3	9	2.5	-6.5	-0.27	-0.26	0	0	0	0	0	0
10/18/2024 11:40	67402	WAKE_T2	0	3	3	0	0.33	0.33	0.2	0.21	0	0	0	0	0	0
10/18/2024 11:40	67401	WAKE_T2	3	21	18	0.4	0.29	-0.11	0	0	0	0	0	0	0	0
10/18/2024 11:41	67503	WEWI_T2	1	4	3	9	2.5	-6.5	-0.27	-0.26	0	0	0	0	0	0
10/18/2024 11:41	67502	WEWI_T2	12	83	71	0.51	0.26	-0.25	-0.27	-0.26	0	0	0	0	0	0
10/18/2024 11:41	67401	WAKE_T2	3	21	18	0.4	0.29	-0.11	0	0	0	0	0	0	0	0
10/18/2024 11:41	67402	WAKE_T2	0	3	3	0	0.33	0.33	0.2	0.21	0	0	0	0	0	0
10/18/2024 11:42	57004	WHHI_T2	0	0	0	0	0	0	-0.62	-0.58	0	0	0	0	0	0
10/18/2024 11:42	57005	WHHI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
10/18/2024 11:42	57002	WHHI_T2	3	4	1	0.13	0.25	0.12	0	0	0	0	0	0	0	0
10/18/2024 11:42	54601	SUMM_T2	10	12	2	0.7	0.83	0.13	-5.81	-5.84	4	4	0	4200	4200	0
10/18/2024 11:42	57203	ROSS_T1	1	4	3	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
10/18/2024 11:42	67402	WAKE_T2	0	3	3	0	0.33	0.33	0.2	0.21	0	0	0	0	0	0
10/18/2024 11:42	57003	WHHI_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/18/2024 11:42	67401	WAKE_T2	3	21	18	0.4	0.29	-0.11	-1.08	-1.11	0	0	0	0	0	0
10/18/2024 11:42	57201	ROSS_T1	1	24	23	0.4	0.26	-0.14	-0.47	-0.58	0	0	0	0	0	0
10/18/2024 11:42	57205	ROSS_T1	3	6	3	1	0.72	-0.28	0	0	0	0	0	0	0	0
10/18/2024 11:42	54602	SUMM_T2	9	17	8	0.2	0.38	0.18	0	0	0	0	0	0	0	0
10/18/2024 11:43	67503	WEWI_T2	1	4	3	9	2.5	-6.5	0	0	0	0	0	0	0	0
10/18/2024 11:43	54601	SUMM_T2	10	12	2	0.7	0.83	0.13	-2.9	-2.92	2	2	0	2100	2100	0
10/18/2024 11:43	60101	COCA_T1	1	2	1	0.5	0.4	-0.1	0.24	0.25	0	0	0	0	0	0
10/18/2024 11:43	15103	UPHA_T2	2	3	1	0.5	0.43	-0.07	0.4	0.35	0	0	0	0	0	0
10/18/2024 11:43	67502	WEWI_T2	12	83	71	0.51	0.26	-0.25	-0.27	-0.26	0	0	0	0	0	0
10/18/2024 11:43	15001	BLMO_T1	9	6	-3	0.3	0.55	0.25	0	0	0	0	0	0	0	0
10/18/2024 11:43	54602	SUMM_T2	9	17	8	0.2	0.38	0.18	0	0	0	0	0	0	0	0
10/18/2024 11:44	67402	WAKE_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
10/18/2024 11:44	45303	WBER_T2	9	9	0	1.26	1.39	0.13	0	0	0	0	0	0	0	0
10/18/2024 11:44	67502	WEWI_T2	12	83	71	0.51	0.26	-0.25	-0.27	-0.26	0	0	0	0	0	0
10/18/2024 11:44	57201	ROSS_T1	1	24	23	0.4	0.26	-0.14	-0.95	-1.16	0	0	0	0	0	0
10/18/2024 11:44	60803	BUCK_T1	2	15	13	0.1	0.23	0.13	0	0	0	0	0	0	0	0
10/18/2024 11:44	60801	BUCK_T1	1	12	11	0.5	0.22	-0.28	0	-0.06	0	0	0	0	0	0
10/18/2024 11:44	57203	ROSS_T1	1	4	3	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
10/18/2024 11:44	67401	WAKE_T2	3	21	18	0.4	0.29	-0.11	-1.08	-1.11	0	0	0	0	0	0
10/18/2024 11:44	15201	SFAR_T1	0	0	0	0	0	0	0.11	0.17	1	1	0	1200	1200	0
10/18/2024 11:44	67503	WEWI_T2	1	4	3	9	2.5	-6.5	0	0	0	0	0	0	0	0
10/18/2024 11:44	57205	ROSS_T1	3	6	3	1	0.72	-0.28	0	0	0	0	0	0	0	0
10/18/2024 11:44	45302	WBER_T2	0	0	0	0	0	0	0.73	0.67	0	0	0	0	0	0
10/18/2024 11:44	15001	BLMO_T1	9	6	-3	0.3	0.55	0.25	0	0	0	0	0	0	0	0
10/18/2024 11:46	10805	OHH_T2	3	4	1	2.57	1.95	-0.62	-1.17	-1.34	2	2	0	1800	1800	0
10/18/2024 11:46	60803	BUCK_T1	13	26	13	0.15	0.28	0.13	0	0	0	0	0	0	0	0
10/18/2024 11:46	60801	BUCK_T1	3	64	61	0.27	0.29	0.02	0	-0.06	0	0	0	0	0	0
10/18/2024 11:47	57006	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 11:47	57003	WHHI_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/18/2024 11:47	57005	WHHI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/18/2024 11:47	57002	WHHI_T2	4	4	0	0.25	0.28	0.03	0	0	0	0	0	0	0	0
10/18/2024 11:49	64304	LINC_T2	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/18/2024 11:49	64302	LINC_T2	0	0	0	0	0	0	1.3	1.3	0	0	0	0	0	0
10/18/2024 11:50	48902	FOSP_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 11:50	48901	FOSP_T2	0	0	0	0	0	0	-0.13	-0.11	2	2	0	1200	1200	0
10/18/2024 11:52	65604	QVIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
10/18/2024 11:52	65601	QVIL_T2	42	97	55	0.23	0.26	0.03	0	0	0	0	0	0	0	0
10/18/2024 11:52	65603	QVIL_T2	0	13	13	0	0.12	0.12	0	0	0	0	0	0	0	0
10/18/2024 11:52	65602	QVIL_T2	8	33	25	0.18	0.26	0.08	0	0	0	0	0	0	0	0
10/18/2024 11:53	40602	PIGR_T1	4	6	2	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
10/18/2024 11:53	65604	QVIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
10/18/2024 11:53	40601	PIGR_T1	30	102	72	0.33	0.26	-0.07	-1.1	-1.07	0	0	0	0	0	0
10/18/2024 11:53	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/18/2024 11:53	65603	QVIL_T2	0	13	13	0	0.12	0.12	0	0	0	0	0	0	0	0
10/18/2024 11:53	65602	QVIL_T2	8	33	25	0.18	0.26	0.08	0	0	0	0	0	0	0	0
10/18/2024 11:53	65601	QVIL_T2	42	97	55	0.23	0.26	0.03	0	0	0	0	0	0	0	0
10/18/2024 11:53	41902	REED_T1	1	6	5	0.1	0.58	0.48	0.91	0.81	0	0	0	0	0	0
10/18/2024 11:53	40603	PIGR_T1	3	3	0	0.7	0.87	0.17	0	0	0	0	0	0	0	0
10/18/2024 11:54	50505	MECH_T1	3	3	0	0.43	0.47	0.04	-0.92	-0.95	0	0	0	0	0	0
10/18/2024 11:54	50503	MECH_T1	9	13	4	0.22	0.29	0.07	0	0	0	0	0	0	0	0
10/18/2024 11:54	41902	REED_T1	1	6	5	0.1	0.58	0.48	0.91	0.81	0	0	0	0	0	0
10/18/2024 11:54	40603	PIGR_T1	3	3	0	0.7	0.87	0.17	0	0	0	0	0	0	0	0
10/18/2024 11:54	40602	PIGR_T1	4	6	2	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
10/18/2024 11:54	50502	MECH_T1	3	3	0	0.9	0.93	0.03	0	0	0	0	0	0	0	0
10/18/2024 11:54	57101	SPHI_T2	6	7	1	1.25	1.13	-0.12	0	0	0	0	0	0	0	0
10/18/2024 11:54	50506	MECH_T1	5	4	-1	0.46	0.58	0.12	1.09	1.09	0	0	0	0	0	0
10/18/2024 11:54	50501	MECH_T1	7	9	2	0.71	0.67	-0.04	0	0	0	0	0	0	0	0
10/18/2024 11:54	57103	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 11:54	66504	SMAN_T2	2	1	-1	0.45	1	0.55	0	0	0	0	0	0	0	0
10/18/2024 11:54	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/18/2024 11:54	48901	FOSP_T2	0	0	0	0	0	0	-0.06	-0.08	1	1	0	600	600	0
10/18/2024 11:54	57104	SPHI_T2	2	3	1	0.5	0.55	0.05	-1.11	-1.1	0	0	0	0	0	0
10/18/2024 11:54	48902	FOSP_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 11:54	66501	SMAN_T2	2	2	0	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
10/18/2024 11:54	50504	MECH_T1	19	13	-6	0.23	0.27	0.04	0	0	0	0	0	0	0	0
10/18/2024 11:54	66502	SMAN_T2	13	11	-2	0.31	0.35	0.04	0	0	0	0	0	0	0	0
10/18/2024 11:54	57106	SPHI_T2	4	4	0	1.35	1.38	0.03	0	0	0	0	0	0	0	0
10/18/2024 11:54	40601	PIGR_T1	30	102	72	0.33	0.26	-0.07	0	0	0	0	0	0	0	0
10/18/2024 11:55	65604	QVIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
10/18/2024 11:55	65601	QVIL_T2	42	97	55	0.23	0.26	0.03	0	0	0	0	0	0	0	0
10/18/2024 11:55	40602	PIGR_T1	4	6	2	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
10/18/2024 11:55	65602	QVIL_T2	8	33	25	0.18	0.26	0.08	0	0	0	0	0	0	0	0
10/18/2024 11:55	40601	PIGR_T1	30	102	72	0.33	0.26	-0.07	0	0	0	0	0	0	0	0
10/18/2024 11:55	13901	SEID_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/18/2024 11:55	13905	SEID_T1	0	2	2	0	0.2	0.2	0.32	0.28	0	0	0	0	0	0
10/18/2024 11:55	48902	FOSP_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 11:55	13902	SEID_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/18/2024 11:55	48901	FOSP_T2	0	0	0	0	0	0	-0.06	-0.08	1	1	0	600	600	0
10/18/2024 11:55	65603	QVIL_T2	0	13	13	0	0.12	0.12	0.45	0.17	0	0	0	0	0	0
10/18/2024 11:55	40603	PIGR_T1	3	3	0	0.7	0.87	0.17	0	0	0	0	0	0	0	0
10/18/2024 11:56	50503	MECH_T1	9	13	4	0.22	0.29	0.07	0	0	0	0	0	0	0	0
10/18/2024 11:56	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/18/2024 11:56	50502	MECH_T1	3	3	0	0.9	0.93	0.03	0	0	0	0	0	0	0	0
10/18/2024 11:56	41902	REED_T1	1	6	5	0.1	0.58	0.48	0.91	0.81	0	0	0	0	0	0
10/18/2024 11:56	50501	MECH_T1	7	9	2	0.71	0.67	-0.04	0.19	0.19	0	0	0	0	0	0
10/18/2024 11:56	50506	MECH_T1	5	4	-1	0.46	0.58	0.12	1.09	1.09	0	0	0	0	0	0
10/18/2024 11:56	50504	MECH_T1	19	13	-6	0.23	0.27	0.04	0	0	0	0	0	0	0	0
10/18/2024 11:56	50505	MECH_T1	3	3	0	0.43	0.47	0.04	0	0	0	0	0	0	0	0
10/18/2024 11:57	66501	SMAN_T2	2	2	0	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
10/18/2024 11:57	66502	SMAN_T2	13	11	-2	0.31	0.35	0.04	0.18	0.27	0	0	0	0	0	0
10/18/2024 11:57	66504	SMAN_T2	2	1	-1	0.45	1	0.55	0	0	0	0	0	0	0	0
10/18/2024 11:58	66502	SMAN_T2	13	11	-2	0.31	0.35	0.04	0	0	0	0	0	0	0	0
10/18/2024 11:58	66504	SMAN_T2	2	1	-1	0.45	1	0.55	0	0	0	0	0	0	0	0
10/18/2024 11:58	66505	SMAN_T2	0	0	0	0	0	0	0.62	0.59	1	1	0	900	900	0
10/18/2024 11:58	66501	SMAN_T2	2	2	0	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
10/18/2024 11:59	58401	MORO_T1	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/18/2024 11:59	58402	MORO_T1	1	4	3	0.2	0.38	0.18	0.3	0.24	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/18/2024 12:01	67503	WEWI_T2	4	5	1	2.5	2.12	-0.38	-0.26	-0.25	0	0	0	0	0	0
10/18/2024 12:01	67502	WEWI_T2	50	204	154	0.32	0.29	-0.03	0	0	0	0	0	0	0	0
10/18/2024 12:05	59002	MIFF_T1	6	6	0	0.73	0.78	0.05	0	0	0	0	0	0	0	0
10/18/2024 12:05	59001	MIFF_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/18/2024 12:05	59003	MIFF_T1	1	1	0	0.8	0.7	-0.1	0.5	1.06	0	0	0	0	0	0
10/18/2024 12:05	11203	ELHE_T1	0	0	0	0	0	0	1.1	1	0	0	0	0	0	0
10/18/2024 12:05	42001	MNVL_T2	232	252	20	0.55	0.76	0.21	-0.34	-0.36	0	0	0	0	0	0
10/18/2024 12:05	42002	MNVL_T2	1	2	1	5.6	2.5	-3.1	0.5	0.2	0	0	0	0	0	0
10/18/2024 12:06	42001	MNVL_T2	232	252	20	0.55	0.76	0.21	-0.36	-0.38	0	0	0	0	0	0
10/18/2024 12:06	42002	MNVL_T2	1	2	1	5.6	2.5	-3.1	0	0	0	0	0	0	0	0
10/18/2024 12:07	66501	SMAN_T2	2	2	0	0.85	0.4	-0.45	0	0	0	0	0	0	0	0
10/18/2024 12:07	66502	SMAN_T2	11	6	-5	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
10/18/2024 12:07	58402	MORO_T1	2	4	2	0.4	0.45	0.05	0	0	0	0	0	0	0	0
10/18/2024 12:07	58401	MORO_T1	2	2	0	0.2	0.4	0.2	-0.47	-0.49	0	0	0	0	0	0
10/18/2024 12:07	66504	SMAN_T2	1	2	1	1	0.3	-0.7	0	0	0	0	0	0	0	0
10/18/2024 12:07	66503	SMAN_T2	0	0	0	0	0	0	0.41	0.36	0	0	0	0	0	0
10/18/2024 12:09	66502	SMAN_T2	11	6	-5	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
10/18/2024 12:09	66501	SMAN_T2	2	2	0	0.85	0.4	-0.45	0	0	0	0	0	0	0	0
10/18/2024 12:09	66504	SMAN_T2	1	2	1	1	0.3	-0.7	-0.38	-0.47	0	0	0	0	0	0
10/18/2024 12:10	58401	MORO_T1	2	2	0	0.2	0.4	0.2	-0.47	-0.49	0	0	0	0	0	0
10/18/2024 12:10	58402	MORO_T1	2	4	2	0.4	0.45	0.05	0.24	0.34	1	1	0	900	900	0
10/18/2024 12:11	67401	WAKE_T2	15	14	-1	0.32	0.41	0.09	0	0	0	0	0	0	0	0
10/18/2024 12:11	67402	WAKE_T2	3	4	1	0.33	0.33	0	0.21	0.23	0	0	0	0	0	0
10/18/2024 12:12	14802	TREI_T2	15	23	8	0.39	0.33	-0.06	0.79	0.66	0	0	0	0	0	0
10/18/2024 12:12	14801	TREI_T2	17	63	46	0.31	0.21	-0.1	0	0	0	0	0	0	0	0
10/18/2024 12:13	14801	TREI_T2	17	63	46	0.31	0.21	-0.1	0	0	0	0	0	0	0	0
10/18/2024 12:13	14802	TREI_T2	15	23	8	0.39	0.33	-0.06	0.4	0.33	0	0	0	0	0	0
10/18/2024 12:14	67402	WAKE_T2	3	4	1	0.33	0.33	0	0	0	0	0	0	0	0	0
10/18/2024 12:14	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 12:14	21206	ECAR_T2	1	1	0	7.1	6.8	-0.3	1.44	1.44	0	0	0	0	0	0
10/18/2024 12:14	60101	CDCA_T1	2	2	0	0.4	0.55	0.15	0.33	0.23	0	0	0	0	0	0
10/18/2024 12:14	14801	TREI_T2	17	63	46	0.31	0.21	-0.1	0	0	0	0	0	0	0	0
10/18/2024 12:14	67401	WAKE_T2	15	14	-1	0.32	0.41	0.09	-2.23	-2.14	0	0	0	0	0	0
10/18/2024 12:14	14802	TREI_T2	15	23	8	0.39	0.33	-0.06	0.79	0.66	0	0	0	0	0	0
10/18/2024 12:15	60701	BREC_T1	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
10/18/2024 12:15	14802	TREI_T2	17	17	0	0.38	0.25	-0.13	0.4	0.33	0	0	0	0	0	0
10/18/2024 12:15	14801	TREI_T2	26	62	36	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
10/18/2024 12:17	57005	WHHI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/18/2024 12:17	57003	WHHI_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
10/18/2024 12:17	57002	WHHI_T2	4	2	-2	0.28	0.35	0.07	0	0	0	0	0	0	0	0
10/18/2024 12:17	60101	CDCA_T1	1	2	1	0.9	0.55	-0.35	0.33	0.23	0	0	0	0	0	0
10/18/2024 12:17	57004	WHHI_T2	0	1	1	0	0.1	0.1	-0.57	-0.56	0	0	0	0	0	0
10/18/2024 12:18	57005	WHHI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/18/2024 12:18	57004	WHHI_T2	0	1	1	0	0.1	0.1	-0.57	-0.56	0	0	0	0	0	0
10/18/2024 12:18	11303	EMMA_T1	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
10/18/2024 12:18	57002	WHHI_T2	4	2	-2	0.28	0.35	0.07	0	0	0	0	0	0	0	0
10/18/2024 12:18	57003	WHHI_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
10/18/2024 12:18	11301	EMMA_T1	0	0	0	0	0	0	-0.86	-0.83	0	0	0	0	0	0
10/18/2024 12:18	11302	EMMA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 12:19	59302	MCAL_T1	3	5	2	0.43	0.46	0.03	0	0	0	0	0	0	0	0
10/18/2024 12:19	59301	MCAL_T1	11	10	-1	0.6	0.66	0.06	-1.72	-1.74	1	1	0	600	600	0
10/18/2024 12:20	59302	MCAL_T1	3	5	2	0.43	0.46	0.03	0	0	0	0	0	0	0	0
10/18/2024 12:20	64101	REFR_T1	5	6	1	0.54	0.55	0.01	0	0	0	0	0	0	0	0
10/18/2024 12:20	59301	MCAL_T1	11	10	-1	0.6	0.66	0.06	-1.72	-1.74	1	1	0	600	600	0
10/18/2024 12:22	59301	MCAL_T1	11	10	-1	0.6	0.66	0.06	-1.74	-1.7	1	1	0	600	600	0
10/18/2024 12:22	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 12:22	65503	MOJO_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/18/2024 12:22	64101	REFR_T1	5	6	1	0.54	0.55	0.01	0	0	0	0	0	0	0	0
10/18/2024 12:22	59302	MCAL_T1	3	5	2	0.43	0.46	0.03	0	0	0	0	0	0	0	0
10/18/2024 12:24	13303	ORVI_T1	3	3	0	0.27	0.2	-0.07	-0.36	-0.35	0	0	0	0	0	0
10/18/2024 12:24	59301	MCAL_T1	11	10	-1	0.6	0.66	0.06	0	0	0	0	0	0	0	0
10/18/2024 12:24	59302	MCAL_T1	3	5	2	0.43	0.46	0.03	0	0	0	0	0	0	0	0
10/18/2024 12:25	66504	SMAN_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/18/2024 12:25	66502	SMAN_T2	4	6	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
10/18/2024 12:25	66501	SMAN_T2	2	1	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/18/2024 12:25	64101	REFR_T1	5	6	1	0.54	0.55	0.01	0	0	0	0	0	0	0	0
10/18/2024 12:26	42001	MNVL_T2	213	255	42	0.51	0.78	0.27	-0.38	-0.32	0	0	0	0	0	0
10/18/2024 12:26	48901	FOSP_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/18/2024 12:26	42002	MNVL_T2	1	2	1	4.9	2.5	-2.4	0	0	0	0	0	0	0	0
10/18/2024 12:26	48902	FOSP_T2	0	1	1	0	0.1	0.1	0.69	0.92	0	0	0	0	0	0
10/18/2024 12:27	16302	ALPA_T2	5	1	-4	0.42	0.2	-0.22	0.64	0.72	0	0	0	0	0	0
10/18/2024 12:29	64101	REFR_T1	5	6	1	0.54	0.55	0.01	0	0	0	0	0	0	0	0
10/18/2024 12:30	44802	EDAN_T2	0	5	5	0	0.22	0.22	-0.84	-0.81	0	0	0	0	0	0
10/18/2024 12:30	44801	EDAN_T2	5	153	148	0.66	0.47	-0.19	0	0	0	0	0	0	0	0
10/18/2024 12:31	44802	EDAN_T2	0	5	5	0	0.22	0.22	-0.84	-0.81	0	0	0	0	0	0
10/18/2024 12:31	44801	EDAN_T2	5	153	148	0.66	0.47	-0.19	0	0	0	0	0	0	0	0
10/18/2024 12:31	14204	EALL_T2	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
10/18/2024 12:32	44801	EDAN_T2	5	153	148	0.66	0.47	-0.19	0	0	0	0	0	0	0	0
10/18/2024 12:32	44802	EDAN_T2	0	5	5	0	0.22	0.22	-2.53	-2.44	0	0	0	0	0	0
10/18/2024 12:33	44802	EDAN_T2	0	5	5	0	0.22	0.22	-0.84	-0.81	0	0	0	0	0	0
10/18/2024 12:33	44801	EDAN_T2	5	153	148	0.66	0.47	-0.19	-1.07	-3.24	0	0	0	0	0	0
10/18/2024 12:36	50107	HARR_T3	1	1	0	8.8	9.1	0.3	0	0	0	0	0	0	0	0
10/18/2024 12:36	50105	HARR_T3	6	6	0	5.98	6.02	0.04	0	0	0	0	0	0	0	0
10/18/2024 12:36	50201	HARR_T3	2	2	0	0.4	0.3	-0.1	0	0	1	1	0	1200	1200	0
10/18/2024 12:36	50103	HARR_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 12:37	64203	KINZ_T1	0	0	0	0	0	0	0.89	0.95	2	2	0	900	900	0
10/18/2024 12:37	64204	KINZ_T1	4	4	0	0.78	0.7	-0.08	0	0	0	0	0	0	0	0
10/18/2024 12:37	64202	KINZ_T1	2	3	1	0.4	0.67	0.27	0	0	0	0	0	0	0	0
10/18/2024 12:41	42002	MNVL_T2	2	1	-1	2.55	4.9	2.35	0	0	0	0	0	0	0	0
10/18/2024 12:41	42001	MNVL_T2	252	254	2	0.76	0.74	-0.02	-0.32	-0.38	0	0	0	0	0	0
10/18/2024 12:42	20402	ASHF_T2	1	3	2	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
10/18/2024 12:42	20403	ASHF_T2	68	61	-7	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
10/18/2024 12:42	16102	BING_T2	6	6	0	0.75	0.73	-0.02	0	0	0	0	0	0	0	0
10/18/2024 12:42	16101	BING_T2	2	2	0	0.35	0.55	0.2	0.31	0.3	0	0	0	0	0	0
10/18/2024 12:42	20401	ASHF_T2	27	9	-18	0.23	0.38	0.15	-0.36	-0.38	0	0	0	0	0	0
10/18/2024 12:42	16103	BING_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
10/18/2024 12:43	16103	BING_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
10/18/2024 12:43	16101	BING_T2	2	2	0	0.35	0.55	0.2	0.31	0.3	0	0	0	0	0	0
10/18/2024 12:43	16102	BING_T2	6	6	0	0.75	0.73	-0.02	0	0	0	0	0	0	0	0
10/18/2024 12:44	45303	WBER_T2	10	10	0	1.33	1.38	0.05	-0.24	-0.31	0	0	0	0	0	0
10/18/2024 12:45	45303	WBER_T2	10	9	-1	1.37	1.52	0.15	-0.24	-0.31	0	0	0	0	0	0
10/18/2024 12:52	15603	NSTR_T2	1	1	0	1	0.9	-0.1	-0.63	-0.62	0	0	0	0	0	0
10/18/2024 12:52	15601	NSTR_T2	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
10/18/2024 12:56	60201	ATGL_T2	45	21	-24	0.22	0.2	-0.02	-0.1	-0.2	0	0	0	0	0	0
10/18/2024 12:57	43802	SWIL_T1	1	1	0	0.3	0.5	0.2	-0.28	-0.26	1	1	0	600	600	0
10/18/2024 12:57	43801	SWIL_T1	2	1	-1	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
10/18/2024 12:58	20401	ASHF_T2	8	8	0	0.33	0.35	0.02	0	0	0	0	0	0	0	0
10/18/2024 12:58	20402	ASHF_T2	1	3	2	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
10/18/2024 12:58	20403	ASHF_T2	61	23	-38	0.3	0.37	0.07	1.17	1.11	0	0	0	0	0	0
10/18/2024 12:59	67402	WAKE_T2	1	2	1	0.4	0.25	-0.15	0.22	0.21	0	0	0	0	0	0
10/18/2024 12:59	67401	WAKE_T2	5	6	1	0.32	0.44	0.12	0	0	0	0	0	0	0	0
10/18/2024 13:08	64801	MONE_T2	5	4	-1	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
10/18/2024 13:08	67001	STHI_T2	10	14	4	0.33	0.26	-0.07	0.03	0.05	0	0	0	0	0	0
10/18/2024 13:08	64802	MONE_T2	37	30	-7	0.49	0.42	-0.07	0.12	0.11	0	0	0	0	0	0
10/18/2024 13:08	67002	STHI_T2	19	22	3	0.41	0.35	-0.06	0	0	0	0	0	0	0	0
10/18/2024 13:09	67001	STHI_T2	10	14	4	0.33	0.26	-0.07	0.03	0.05	0	0	0	0	0	0
10/18/2024 13:09	67002	STHI_T2	19	22	3	0.41	0.35	-0.06	0.72	0.67	0	0	0	0	0	0
10/18/2024 13:10	67002	STHI_T2	19	22	3	0.41	0.35	-0.06	1.44	1.35	0	0	0	0	0	0
10/18/2024 13:10	67001	STHI_T2	10	14	4	0.33	0.26	-0.07	0.03	0.05	0	0	0	0	0	0
10/18/2024 13:11	67001	STHI_T2	10	14	4	0.33	0.26	-0.07	0	0	0	0	0	0	0	0
10/18/2024 13:11	67002	STHI_T2	19	22	3	0.41	0.35	-0.06	0.72	0.67	0	0	0	0	0	0
10/18/2024 13:11	13701	SCHN_T2	6	6	0	0.32	0.25	-0.07	-0.11	-0.11	1	1	0	600	600	0
10/18/2024 13:11	13704	SCHN_T2	6	4	-2	0.25	0.23	-0.02	-0.37	-0.37	0	0	0	0	0	0
10/18/2024 13:12	67001	STHI_T2	10	14	4	0.33	0.26	-0.07	0.03	0.05	0	0	0	0	0	0
10/18/2024 13:12	67002	STHI_T2	19	22	3	0.41	0.35	-0.06	0.72	0.67	0	0	0	0	0	0
10/18/2024 13:12	60201	ATGL_T2	7	20	13	0.34	0.2	-0.14	-0.2	-0.12	0	0	0	0	0	0
10/18/2024 13:13	67002	STHI_T2	19	22	3	0.41	0.35	-0.06	1.44	1.35	0	0	0	0	0	0
10/18/2024 13:13	67001	STHI_T2	10	14	4	0.33	0.26	-0.07	0	0	0	0	0	0	0	0
10/18/2024 13:14	43402	BENT_T1	2	2	0	0.75	0.7	-0.05	0.23	0.06	0	0	0	0	0	0
10/18/2024 13:16	60201	ATGL_T2	20	6	-14	0.2	0.33	0.13	0	0	0	0	0	0	0	0
10/18/2024 13:18	40702	FFLD_T1	2	4	2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
10/18/2024 13:18	40701	FFLD_T1	34	52	18	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
10/18/2024 13:18	40703	FFLD_T1	5	4	-1	0.22	0.33	0.11	0	0	0	0	0	0	0	0
10/18/2024 13:21	64305	LINC_T1	1	1	0	0.2	0.1	-0.1	-0.13	-0.03	0	0	0	0	0	0
10/18/2024 13:21	64101	REFR_T1	4	3	-1	0.53	0.77	0.24	0	0	0	0	0	0	0	0
10/18/2024 13:25	64101	REFR_T1	4	3	-1	0.53	0.77	0.24	0	0	0	0	0	0	0	0
10/18/2024 13:26	66501	SMAN_T2	2	2	0	0.25	0.95	0.7	0	0	0	0	0	0	0	0
10/18/2024 13:26	66504	SMAN_T2	1	2	1	0.6	0.75	0.15	-0.49	-0.35	0	0	0	0	0	0
10/18/2024 13:26	66502	SMAN_T2	1	19	18	0.1	0.34	0.24	0	0	0	0	0	0	0	0
10/18/2024 13:27	66502	SMAN_T2	1	19	18	0.1	0.34	0.24	0	0	0	0	0	0	0	0
10/18/2024 13:27	66501	SMAN_T2	2	2	0	0.25	0.95	0.7	0	0	0	0	0	0	0	0
10/18/2024 13:27	66504	SMAN_T2	1	2	1	0.6	0.75	0.15	-1.46	-1.05	0	0	0	0	0	0
10/18/2024 13:28	66504	SMAN_T2	1	2	1	0.6	0.75	0.15	-0.49	-0.35	0	0	0	0	0	0
10/18/2024 13:28	66502	SMAN_T2	1	19	18	0.1	0.34	0.24	2.14	1.63	0	0	0	0	0	0
10/18/2024 13:28	66501	SMAN_T2	2	2	0	0.25	0.95	0.7	0	0	0	0	0	0	0	0
10/18/2024 13:29	60801	BUCK_T1	5	3	-2	0.28	0.33	0.05	-0.21	-0.21	0	0	0	0	0	0
10/18/2024 13:31	66504	SMAN_T2	2	1	-1	0.75	0.9	0.15	-0.49	-0.35	0	0	0	0	0	0
10/18/2024 13:31	66502	SMAN_T2	19	10	-9	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
10/18/2024 13:31	66501	SMAN_T2	2	2	0	0.95	0.7	-0.25	0	0	0	0	0	0	0	0
10/18/2024 13:34	66701	STRA_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
10/18/2024 13:34	66703	STRA_T1	0	0	0	0	0	0	-0.18	-0.14	0	0	0	0	0	0
10/18/2024 13:43	14801	TREI_T2	7	6	-1	0.4	0.42	0.02	0.3	0.32	0	0	0	0	0	0
10/18/2024 13:43	14802	TREI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/18/2024 13:44	66501	SMAN_T2	2	2	0	0.95	0.7	-0.25	0	0	0	0	0	0	0	0
10/18/2024 13:44	66504	SMAN_T2	2	1	-1	0.75	0.9	0.15	0	0	0	0	0	0	0	0
10/18/2024 13:44	66502	SMAN_T2	19	10	-9	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
10/18/2024 13:49	46101	MACI_T2	0	0	0	0	0	0	-1.08	-1.29	2	2	0	2400	2400	0
10/18/2024 13:49	64305	LINC_T1	1	1	0	0.1	0.1	0	-0.03	-0.08	0	0	0	0	0	0
10/18/2024 13:50	46802	HEPB_T1	4	6	2	0.58	0.42	-0.16	-0.34	-0.35	0	0	0	0	0	0
10/18/2024 13:57	14801	TREI_T2	6	7	1	0.35	0.44	0.09	0	0	0	0	0	0	0	0
10/18/2024 13:57	14802	TREI_T2	1	1	0	0.2	0.5	0.3	0.37	0.39	0	0	0	0	0	0
10/18/2024 13:59	66504	SMAN_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
10/18/2024 13:59	66501	SMAN_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/18/2024 13:59	66502	SMAN_T2	10	4	-6	0.32	0.45	0.13	0	0	0	0	0	0	0	0
10/18/2024 14:03	13501	MCMI_T1	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
10/18/2024 14:03	13502	MCMI_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/18/2024 14:05	13502	MCMI_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/18/2024 14:09	65501	MOJO_T1	1	1	0	0.2	0.3	0.1	-1.04	-1.04	1	1	0	900	900	0
10/18/2024 14:11	13503	MCMI_T2	1	1	0	0.9	0.8	-0.1	-0.01	-0.01	0	0	0	0	0	0
10/18/2024 14:13	24204	PROV_T3	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
10/18/2024 14:13	24201	PROV_T3	1	1	0	7	6.8	-0.2	0	0	1	1	0	1200	1200	0
10/18/2024 14:17	41301	FISH_T1	3	3	0	1.67	1.73	0.06	0	0	0	0	0	0	0	0
10/18/2024 14:17	41305	FISH_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
10/18/2024 14:18	41305	FISH_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
10/18/2024 14:18	41301	FISH_T1	3	3	0	1.67	1.73	0.06	-0.11	-0.1	0	0	0	0	0	0
10/18/2024 14:19	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/18/2024 14:19	41301	FISH_T1	3	3	0	1.67	1.73	0.06	-0.11	-0.1	0	0	0	0	0	0
10/18/2024 14:19	41305	FISH_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
10/18/2024 14:24	43802	SWIL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 14:24	43801	SWIL_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
10/18/2024 14:27	13503	MCMI_T2	1	1	0	0.8	0.5	-0.3	-0.01	-0.01	0	0	0	0	0	0
10/18/2024 14:33	44505	HAMI_T2	4	4	0	0.13	0.1	-0.03	0.45	0.47	0	0	0	0	0	0
10/18/2024 14:33	44502	HAMI_T2	3	2	-1	1.37	1.95	0.58	0	0	0	0	0	0	0	0
10/18/2024 14:34	54601	SUMM_T2	14	10	-4	1.33	0.81	-0.52	-2.86	-2.84	2	2	0	2100	2100	0
10/18/2024 14:34	54602	SUMM_T2	10	14	4	0.17	0.31	0.14	0	0	0	0	0	0	0	0
10/18/2024 14:36	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 14:39	48901	FOSP_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/18/2024 14:39	48902	FOSP_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/18/2024 14:40	48901	FOSP_T2	1	1	0	0.4	0.5	0.1	-0.13	-0.22	1	1	0	600	600	0
10/18/2024 14:40	48902	FOSP_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/18/2024 14:41	67401	WAKE_T2	4	22	18	0.38	0.2	-0.18	-1.08	-1.03	0	0	0	0	0	0
10/18/2024 14:41	67402	WAKE_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/18/2024 14:44	28403	HART_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 14:46	42201	SHEN_T2	2	2	0	0.2	0.45	0.25	0.59	0.57	0	0	0	0	0	0
10/18/2024 14:52	13502	MCMI_T1	1	0	-1	0.2	0	-0.2	-0.16	-0.16	0	0	0	0	0	0
10/18/2024 14:52	13503	MCMI_T2	1	1	0	0.5	0.1	-0.4	-0.01	-0.01	0	0	0	0	0	0
10/18/2024 14:53	13503	MCMI_T2	1	1	0	0.5	0.1	-0.4	-0.01	-0.01	0	0	0	0	0	0
10/18/2024 14:57	65604	QVIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
10/18/2024 14:57	65602	QVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/18/2024 14:57	65601	QVIL_T2	14	118	104	0.14	0.24	0.1	0	0	0	0	0	0	0	0
10/18/2024 14:57	65603	QVIL_T2	0	23	23	0	0.16	0.16	0.21	0.44	0	0	0	0	0	0
10/18/2024 14:58	67001	STHI_T2	246	356	110	0.13	0.2	0.07	0	0	0	0	0	0	0	0
10/18/2024 14:58	67002	STHI_T2	36	90	54	0.3	0.22	-0.08	0.66	0.65	0	0	0	0	0	0
10/18/2024 15:03	63501	HEID_TBK1-2	4	2	-2	0.65	0.8	0.15	0.76	0.66	0	0	0	0	0	0
10/18/2024 15:07	63501	HEID_TBK1-2	4	2	-2	0.65	0.8	0.15	0.66	0.68	0	0	0	0	0	0
10/18/2024 15:10	64904	MILL_T1	0	0	0	0	0	0	0.46	0.36	0	0	0	0	0	0
10/18/2024 15:10	64901	MILL_T1	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 15:17	10602	BLGL_T2	3	3	0	0.7	0.5	-0.2	0.36	0.32	0	0	0	0	0	0
10/18/2024 15:24	44904	SCOT_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/18/2024 15:25	65503	MOJO_T2	0	0	0	0	0	0	-1.09	-1.08	1	1	0	900	900	0
10/18/2024 15:25	44904	SCOT_T1	1	1	0	0.1	0.2	0.1	0.59	0.54	0	0	0	0	0	0
10/18/2024 15:30	57205	ROSS_T1	2	2	0	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
10/18/2024 15:30	57203	ROSS_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
10/18/2024 15:33	60803	BUCK_T1	18	18	0	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
10/18/2024 15:33	60801	BUCK_T1	51	49	-2	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
10/18/2024 15:36	50107	HARR_T3	1	1	0	8.3	8.6	0.3	0	0	0	0	0	0	0	0
10/18/2024 15:36	50105	HARR_T3	6	6	0	5.9	5.93	0.03	0	0	0	0	0	0	0	0
10/18/2024 15:36	41301	FISH_T1	2	2	0	1.85	1.85	0	-0.13	-0.12	0	0	0	0	0	0
10/18/2024 15:36	50201	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
10/18/2024 15:37	46101	MACI_T2	1	1	0	0.1	0.1	0	-1.41	-1.44	2	2	0	2400	2400	0
10/18/2024 15:38	44702	MUNC_T2	173	153	-20	0.34	0.28	-0.06	0	0	0	0	0	0	0	0
10/18/2024 15:38	44703	MUNC_T2	2	2	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
10/18/2024 15:38	44701	MUNC_T2	184	89	-95	0.19	0.17	-0.02	0	0	0	0	0	0	0	0
10/18/2024 15:41	65602	QVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 15:41	65603	QVIL_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
10/18/2024 15:41	65601	QVIL_T2	42	55	13	0.14	0.16	0.02	0	0	0	0	0	0	0	0
10/18/2024 15:42	54601	SUMM_T2	13	13	0	0.65	0.78	0.13	0	0	0	0	0	0	0	0
10/18/2024 15:42	54602	SUMM_T2	11	14	3	0.18	0.32	0.14	0	0	1	1	0	600	600	0
10/18/2024 15:42	49803	UNIV_T1	1	1	0	4.3	4.6	0.3	-1.1	-1.01	0	0	0	0	0	0
10/18/2024 15:42	49804	UNIV_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/18/2024 15:46	12002	HATF_T1	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
10/18/2024 15:46	12001	HATF_T1	0	0	0	0	0	0	1.37	1.38	1	1	0	600	600	0
10/18/2024 15:46	12004	HATF_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 15:47	40901	JESH_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/18/2024 15:47	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 15:48	63801	HEMP_T1	0	2	2	0	0.3	0.3	-0.07	-0.1	0	0	0	0	0	0
10/18/2024 15:48	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
10/18/2024 15:48	63803	HEMP_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/18/2024 15:49	61001	DONV_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/18/2024 15:50	12004	HATF_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 15:50	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
10/18/2024 15:50	12002	HATF_T1	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
10/18/2024 15:50	63801	HEMP_T1	0	2	2	0	0.3	0.3	-0.07	-0.1	0	0	0	0	0	0
10/18/2024 15:50	63803	HEMP_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/18/2024 15:50	12001	HATF_T1	0	0	0	0	0	0	1.37	1.38	1	1	0	600	600	0
10/18/2024 15:51	63803	HEMP_T1	1	1	0	0.4	0.5	0.1	0.2	0.13	0	0	0	0	0	0
10/18/2024 15:51	63801	HEMP_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/18/2024 15:51	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	0.98	0.93	0	0	0	0	0	0
10/18/2024 15:52	40901	JESH_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/18/2024 15:52	40902	JESH_T1	0	0	0	0	0	0	-0.68	-0.74	0	0	0	0	0	0
10/18/2024 15:52	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 15:52	40601	PIGR_T1	2	12	10	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/18/2024 15:53	44203	POIN_T2	0	0	0	0	0	0	-0.42	-0.41	2	2	0	2100	2100	0
10/18/2024 15:53	44201	POIN_T1	100	191	91	0.16	0.25	0.09	-1.72	-1.71	2	2	0	2100	2100	0
10/18/2024 15:54	44201	POIN_T1	100	191	91	0.16	0.25	0.09	-1.72	-1.71	2	2	0	2100	2100	0
10/18/2024 15:55	44201	POIN_T1	100	191	91	0.16	0.25	0.09	-1.72	-1.71	2	2	0	2100	2100	0
10/18/2024 15:56	44201	POIN_T1	100	191	91	0.16	0.25	0.09	-5.16	-5.14	6	6	0	6300	6300	0
10/18/2024 15:57	44201	POIN_T1	100	191	91	0.16	0.25	0.09	-1.72	-1.71	2	2	0	2100	2100	0
10/18/2024 16:03	64401	LAND_T1	0	0	0	0	0	0	-0.88	-0.92	1	1	0	600	600	0
10/18/2024 16:05	64401	LAND_T1	0	0	0	0	0	0	-1.75	-1.83	2	2	0	1200	1200	0
10/18/2024 16:07	64401	LAND_T1	0	0	0	0	0	0	-0.92	-1.08	1	1	0	600	600	0
10/18/2024 16:08	64403	LAND_T1	0	0	0	0	0	0	-1.46	-1.62	1	1	0	900	900	0
10/18/2024 16:08	43202	MVIL_T2	47	31	-16	0.21	0.18	-0.03	-0.74	-0.75	0	0	0	0	0	0
10/18/2024 16:09	64401	LAND_T1	0	0	0	0	0	0	-0.92	-1.08	1	1	0	600	600	0
10/18/2024 16:14	67402	WAKE_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
10/18/2024 16:14	67401	WAKE_T2	14	18	4	0.13	0.16	0.03	0	0	0	0	0	0	0	0
10/18/2024 16:15	44301	BEAV_T2	0	0	0	0	0	0	-0.5	-0.37	1	1	0	600	600	0
10/18/2024 16:16	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 16:22	51004	NHAR_T1	2	2	0	5.95	5.9	-0.05	-0.19	-0.06	0	0	0	0	0	0
10/18/2024 16:22	51002	NHAR_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
10/18/2024 16:23	65802	RTWN_T2	0	0	0	0	0	0	-0.23	-0.17	0	0	0	0	0	0
10/18/2024 16:25	44702	MUNC_T2	185	179	-6	0.34	0.36	0.02	0	0	0	0	0	0	0	0
10/18/2024 16:25	44701	MUNC_T2	48	119	71	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
10/18/2024 16:25	44703	MUNC_T2	2	2	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
10/18/2024 16:27	44702	MUNC_T2	185	179	-6	0.34	0.36	0.02	0	0	0	0	0	0	0	0
10/18/2024 16:27	44701	MUNC_T2	48	119	71	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
10/18/2024 16:27	44703	MUNC_T2	2	2	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
10/18/2024 16:30	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 16:30	50623	CCTY_T2	5	5	0	5.5	5.52	0.02	0	0	0	0	0	0	0	0
10/18/2024 16:30	50624	CCTY_T2	2	2	0	6.05	6.05	0	0	0	0	0	0	0	0	0
10/18/2024 16:30	50625	CCTY_T2	5	5	0	2.78	2.76	-0.02	0	0	0	0	0	0	0	0
10/18/2024 16:40	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 16:41	67106	SPRI_T2	0	0	0	0	0	0	-1.18	-1.19	1	1	0	900	900	0
10/18/2024 16:42	43301	WATS_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
10/18/2024 16:42	43302	WATS_T2	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/18/2024 16:42	43304	WATS_T2	0	19	19	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 16:45	16301	ALPA_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
10/18/2024 16:46	50201	HARR_T3	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
10/18/2024 16:46	50105	HARR_T3	6	6	0	5.82	5.88	0.06	0	0	0	0	0	0	0	0
10/18/2024 16:46	11603	CEAL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 16:46	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/18/2024 16:46	50107	HARR_T3	1	1	0	8	7.6	-0.4	0	0	0	0	0	0	0	0
10/18/2024 16:47	16301	ALPA_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
10/18/2024 16:51	50201	HARR_T3	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
10/18/2024 16:51	50107	HARR_T3	1	1	0	8	7.6	-0.4	0	0	0	0	0	0	0	0
10/18/2024 16:51	50105	HARR_T3	6	6	0	5.82	5.88	0.06	0	0	0	0	0	0	0	0
10/18/2024 16:52	50503	MECH_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 16:52	50505	MECH_T1	1	2	1	0.1	0.1	0	-0.9	-0.9	0	0	0	0	0	0
10/18/2024 16:52	50501	MECH_T1	4	4	0	1.48	1.43	-0.05	0	0	0	0	0	0	0	0
10/18/2024 16:52	50502	MECH_T1	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
10/18/2024 16:52	50504	MECH_T1	2	29	27	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 16:53	50504	MECH_T1	2	29	27	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 16:53	50501	MECH_T1	4	4	0	1.48	1.43	-0.05	0	0	0	0	0	0	0	0
10/18/2024 16:53	50505	MECH_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 16:53	50506	MECH_T1	0	0	0	0	0	0	0.39	0.32	0	0	0	0	0	0
10/18/2024 16:53	50503	MECH_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 16:53	50502	MECH_T1	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
10/18/2024 16:54	50504	MECH_T1	2	29	27	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 16:54	50501	MECH_T1	4	4	0	1.48	1.43	-0.05	0	0	0	0	0	0	0	0
10/18/2024 16:54	50503	MECH_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 16:54	50502	MECH_T1	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
10/18/2024 16:54	50505	MECH_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 16:54	50506	MECH_T1	0	0	0	0	0	0	0.39	0.32	0	0	0	0	0	0
10/18/2024 16:55	50505	MECH_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 16:55	50503	MECH_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 16:55	50504	MECH_T1	2	29	27	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 16:55	50501	MECH_T1	4	4	0	1.48	1.43	-0.05	0	0	0	0	0	0	0	0
10/18/2024 16:55	50502	MECH_T1	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
10/18/2024 16:55	50506	MECH_T1	0	0	0	0	0	0	0.39	0.32	0	0	0	0	0	0
10/18/2024 16:56	50503	MECH_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 16:56	50502	MECH_T1	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
10/18/2024 16:56	50505	MECH_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 16:56	50504	MECH_T1	2	29	27	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 16:56	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 16:56	50501	MECH_T1	4	4	0	1.48	1.43	-0.05	0.45	0.36	0	0	0	0	0	0
10/18/2024 16:58	67203	TEHI_T1	0	0	0	0	0	0	4.57	4.52	4	4	0	3000	3000	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/18/2024 16:58	67201	TEHI_T1	3	3	0	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
10/18/2024 17:00	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/18/2024 17:00	54505	ENOL_T2	1	1	0	1.1	1.3	0.2	-1.36	-1.36	1	1	0	600	600	0
10/18/2024 17:00	54501	ENOL_T2	3	4	1	0.13	0.3	0.17	0	0	0	0	0	0	0	0
10/18/2024 17:01	54505	ENOL_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
10/18/2024 17:01	54503	ENOL_T2	0	0	0	0	0	0	-0.32	-0.42	1	1	0	600	600	0
10/18/2024 17:01	54501	ENOL_T2	3	4	1	0.13	0.3	0.17	0	0	0	0	0	0	0	0
10/18/2024 17:01	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/18/2024 17:04	66302	MCGO_T2	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
10/18/2024 17:04	66301	MCGO_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
10/18/2024 17:04	66303	MCGO_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
10/18/2024 17:05	40902	JESH_T1	0	0	0	0	0	0	-0.71	-0.77	0	0	0	0	0	0
10/18/2024 17:05	66303	MCGO_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
10/18/2024 17:05	66302	MCGO_T2	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
10/18/2024 17:05	40901	JESH_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/18/2024 17:06	41202	KENM_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
10/18/2024 17:06	41205	KENM_T2	0	0	0	0	0	0	-0.74	-0.74	1	1	0	600	600	0
10/18/2024 17:06	66301	MCGO_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
10/18/2024 17:06	66303	MCGO_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
10/18/2024 17:07	66303	MCGO_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
10/18/2024 17:07	66302	MCGO_T2	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
10/18/2024 17:07	40901	JESH_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/18/2024 17:07	40902	JESH_T1	0	0	0	0	0	0	-0.77	-0.81	0	0	0	0	0	0
10/18/2024 17:18	57201	ROSS_T1	0	12	12	0	0.17	0.17	0	0	0	0	0	0	0	0
10/18/2024 17:18	50107	HARR_T3	1	1	0	7.6	7.6	0	0	0	0	0	0	0	0	0
10/18/2024 17:18	50201	HARR_T3	1	1	0	0.9	1	0.1	0	0	1	1	0	1200	1200	0
10/18/2024 17:18	50105	HARR_T3	6	6	0	5.93	5.72	-0.21	0	0	0	0	0	0	0	0
10/18/2024 17:18	57205	ROSS_T1	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
10/18/2024 17:27	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 17:27	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 17:29	60102	COCA_T1	0	0	0	0	0	0	-0.39	-0.1	2	2	0	1200	1200	0
10/18/2024 17:30	24201	PROV_T3	5	11	6	1.4	0.82	-0.58	0	0	1	1	0	1200	1200	0
10/18/2024 17:30	24204	PROV_T3	1	2	1	5.5	2.75	-2.75	0	0	0	0	0	0	0	0
10/18/2024 17:31	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/18/2024 17:31	60101	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 17:31	54505	ENOL_T2	1	1	0	1.2	1.2	0	-1.38	-1.39	1	1	0	600	600	0
10/18/2024 17:31	54501	ENOL_T2	4	4	0	0.18	0.2	0.02	0	0	0	0	0	0	0	0
10/18/2024 17:31	46602	LACR_T1	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
10/18/2024 17:32	54501	ENOL_T2	4	4	0	0.18	0.2	0.02	0	0	0	0	0	0	0	0
10/18/2024 17:32	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/18/2024 17:32	54505	ENOL_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
10/18/2024 17:32	54504	ENOL_T2	0	0	0	0	0	0	-1.19	-1.19	1	1	0	600	600	0
10/18/2024 17:33	54501	ENOL_T2	4	4	0	0.18	0.2	0.02	0	0	0	0	0	0	0	0
10/18/2024 17:33	54504	ENOL_T2	0	0	0	0	0	0	-1.19	-1.19	1	1	0	600	600	0
10/18/2024 17:33	54505	ENOL_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
10/18/2024 17:33	24702	FLND_T2	0	0	0	0	0	0	1.32	1.2	0	0	0	0	0	0
10/18/2024 17:33	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/18/2024 17:35	63804	HEMP_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
10/18/2024 17:35	63802	HEMP_T1	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
10/18/2024 17:37	50505	MECH_T1	1	11	10	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/18/2024 17:37	50504	MECH_T1	16	109	93	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/18/2024 17:37	50503	MECH_T1	0	25	25	0	0.11	0.11	0	0	0	0	0	0	0	0
10/18/2024 17:37	50506	MECH_T1	0	19	19	0	0.1	0.1	0.36	0.18	0	0	0	0	0	0
10/18/2024 17:37	50502	MECH_T1	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
10/18/2024 17:37	50501	MECH_T1	4	4	0	1.13	1.33	0.2	0	0	0	0	0	0	0	0
10/18/2024 17:38	50502	MECH_T1	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
10/18/2024 17:38	50505	MECH_T1	1	11	10	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/18/2024 17:38	50504	MECH_T1	16	109	93	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/18/2024 17:38	50501	MECH_T1	4	4	0	1.13	1.33	0.2	0.44	0.31	0	0	0	0	0	0
10/18/2024 17:38	50506	MECH_T1	0	19	19	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 17:38	50503	MECH_T1	0	25	25	0	0.11	0.11	0	0	0	0	0	0	0	0
10/18/2024 17:40	57403	SPAN_T1	17	31	14	0.22	0.26	0.04	0	0	0	0	0	0	0	0
10/18/2024 17:40	57401	SPAN_T1	2	2	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
10/18/2024 17:41	50505	MECH_T1	1	11	10	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/18/2024 17:41	13704	SCHN_T2	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
10/18/2024 17:41	50501	MECH_T1	4	4	0	1.13	1.33	0.2	0	0	0	0	0	0	0	0
10/18/2024 17:41	50503	MECH_T1	0	25	25	0	0.11	0.11	0	0	0	0	0	0	0	0
10/18/2024 17:41	50502	MECH_T1	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
10/18/2024 17:41	50506	MECH_T1	0	19	19	0	0.1	0.1	0.72	0.36	0	0	0	0	0	0
10/18/2024 17:41	50504	MECH_T1	16	109	93	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/18/2024 17:50	54505	ENOL_T2	1	1	0	1.2	1.3	0.1	-1.39	-1.37	1	1	0	600	600	0
10/18/2024 17:50	54502	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
10/18/2024 17:50	54501	ENOL_T2	4	4	0	0.18	0.2	0.02	0	0	0	0	0	0	0	0
10/18/2024 18:03	54501	ENOL_T2	4	4	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/18/2024 18:03	54505	ENOL_T2	1	1	0	1.2	1.3	0.1	-1.37	-1.39	1	1	0	600	600	0
10/18/2024 18:03	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
10/18/2024 18:21	54504	ENOL_T2	0	0	0	0	0	0	-1.19	-1.21	1	1	0	600	600	0
10/18/2024 18:21	54505	ENOL_T2	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
10/18/2024 18:21	54502	ENOL_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
10/18/2024 18:21	54501	ENOL_T2	3	4	1	0.17	0.3	0.13	0	0	0	0	0	0	0	0
10/18/2024 18:52	63801	HEMP_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
10/18/2024 18:52	63804	HEMP_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:06	64904	MILL_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
10/18/2024 20:06	64901	MILL_T1	0	27	27	0	0.16	0.16	0	0	0	0	0	0	0	0
10/18/2024 20:11	10602	BLGL_T2	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
10/18/2024 20:11	15203	SFAR_T2	0	0	0	0	0	0	-1.38	-1.38	0	0	0	0	0	0
10/18/2024 20:11	13501	MCMI_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
10/18/2024 20:12	17002	RIRO_T2	116	102	-14	0.14	0.13	-0.01	0.31	0.3	0	0	0	0	0	0
10/18/2024 20:12	13502	MCMI_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
10/18/2024 20:15	14801	TREI_T2	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
10/18/2024 20:15	14802	TREI_T2	0	3	3	0	0.1	0.1	0.27	0.27	0	0	0	0	0	0
10/18/2024 20:15	16101	BING_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
10/18/2024 20:15	46004	BERW_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 20:15	46002	BERW_T2	0	0	0	0	0	0	-0.37	-0.32	0	0	0	0	0	0
10/18/2024 20:15	16102	BING_T2	8	15	7	0.23	0.19	-0.04	0	0	0	0	0	0	0	0
10/18/2024 20:16	11301	EMMA_T1	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
10/18/2024 20:16	24702	FLND_T2	0	0	0	0	0	0	-0.1	1.09	1	0	-1	1200	0	-1200
10/18/2024 20:16	10805	CHHI_T2	1	1	0	7.8	7.6	-0.2	-1	-1.02	0	0	0	0	0	0
10/18/2024 20:17	15603	NSTR_T2	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
10/18/2024 20:17	15703	TANN_T2	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:17	60701	BREC_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
10/18/2024 20:17	62605	ENGL_T1	0	4	4	0	0.1	0.1	-0.83	-0.85	0	0	0	0	0	0
10/18/2024 20:17	16301	ALPA_T1	0	0	0	0	0	0	0	-0.07	0	0	0	0	0	0
10/18/2024 20:17	44201	POIN_T1	0	4	4	0	0.1	0.1	-1.92	-1.88	2	2	0	2100	2100	0
10/18/2024 20:17	15702	TANN_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
10/18/2024 20:17	26704	HEML_T2	0	72	72	0	0.27	0.27	-0.87	-0.84	1	1	0	1200	1200	0
10/18/2024 20:17	41301	FISH_T1	2	2	0	1.3	1.65	0.35	-0.23	-0.2	0	0	0	0	0	0
10/18/2024 20:17	15601	NSTR_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
10/18/2024 20:18	64302	LINC_T2	0	0	0	0	0	0	1.08	1.1	0	0	0	0	0	0
10/18/2024 20:18	65001	NEFF_T2	4	9	5	0.1	0.17	0.07	0	0	0	0	0	0	0	0
10/18/2024 20:18	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/18/2024 20:18	65603	QVIL_T2	183	234	51	0.18	0.2	0.02	0	0	0	0	0	0	0	0
10/18/2024 20:18	65602	QVIL_T2	2	3	1	0.3	0.37	0.07	0	0	0	0	0	0	0	0
10/18/2024 20:18	65602	QVIL_T2	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
10/18/2024 20:18	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:18	42002	MNVL_T2	1	1	0	4.2	4	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:18	67001	STHI_T2	314	368	54	0.19	0.24	0.05	0	0	0	0	0	0	0	0
10/18/2024 20:18	42001	MNVL_T2	11	30	19	0.15	0.25	0.1	0.23	0.23	0	0	0	0	0	0
10/18/2024 20:18	65601	QVIL_T2	88	113	25	0.19	0.23	0.04	0	0	0	0	0	0	0	0
10/18/2024 20:18	65003	NEFF_T2	4	4	0	0.3	0.43	0.13	0	0	0	0	0	0	0	0
10/18/2024 20:18	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:18	65004	NEFF_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
10/18/2024 20:18	67002	STHI_T2	31	53	22	0.13	0.13	0	0.56	0.57	0	0	0	0	0	0
10/18/2024 20:19	65602	QVIL_T2	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
10/18/2024 20:19	67603	WARW_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
10/18/2024 20:19	13905	SEID_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
10/18/2024 20:19	67605	WARW_T1	45	98	53	0.68	0.53	-0.15	0	0	0	0	0	0	0	0
10/18/2024 20:19	45902	AUBU_T1	0	0	0	0	0	0	0.2	0.2	1	1	0	600	600	0
10/18/2024 20:19	15201	SFAR_T1	0	0	0	0	0	0	-0.17	-0.13	1	1	0	1200	1200	0
10/18/2024 20:19	43402	BENT_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
10/18/2024 20:19	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/18/2024 20:19	65603	QVIL_T2	183	234	51	0.18	0.2	0.02	0	0	0	0	0	0	0	0
10/18/2024 20:19	14705	TREX_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
10/18/2024 20:19	13303	ORVI_T1	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
10/18/2024 20:19	14704	TREX_T1	1	1	0	4.1	4.2	0.1	0	0	0	0	0	0	0	0
10/18/2024 20:19	12001	HATF_T1	0	0	0	0	0	0	1.27	1.27	1	1	0	600	600	0
10/18/2024 20:19	23403	HONE_T1	0	0	0	0	0	0	-0.78	-0.68	0	0	0	0	0	0
10/18/2024 20:19	67503	WEWI_T2	22	26	4	0.52	0.5	-0.02	-0.31	-0.31	0	0	0	0	0	0
10/18/2024 20:19	65604	QVIL_T2	2	3	1	0.3	0.37	0.07	0	0	0	0	0	0	0	0
10/18/2024 20:19	65601	QVIL_T2	88	113	25	0.19	0.23	0.04	0	0	0	0	0	0	0	0
10/18/2024 20:19	14706	TREX_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
10/18/2024 20:19	67502	WEWI_T2	560	591	31	0.36	0.39	0.03	0	0	0	0	0	0	0	0
10/18/2024 20:19	16102	BING_T2	8	15	7	0.23	0.19	-0.04	0	0	0	0	0	0	0	0
10/18/2024 20:19	25402	LAHA_T2	0	0	0	0	0	0	-0.91	-0.89	0	0	0	0	0	0
10/18/2024 20:19	16101	BING_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
10/18/2024 20:19	46602	LACR_T1	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
10/18/2024 20:20	44802	EDAN_T2	0	0	0	0	0	0	-1	-1.02	0	0	0	0	0	0
10/18/2024 20:20	67503	WEWI_T2	22	26	4	0.52	0.5	-0.02	-0.31	-0.31	0	0	0	0	0	0
10/18/2024 20:20	44203	POIN_T2	0	0	0	0	0	0	0.19	0.3	1	1	0	900	900	0
10/18/2024 20:20	65503	MOJO_T2	57	57	0	0.12	0.12	0	-0.45	-0.43	0	0	0	0	0	0
10/18/2024 20:20	67605	WARW_T1	45	98	53	0.68	0.53	-0.15	-1.23	-1.24	0	0	0	0	0	0
10/18/2024 20:20	24201	PROV_T3	5	62	57	1.34	0.24	-1.1	0	0	1	1	0	1200	1200	0
10/18/2024 20:20	65502	MOJO_T2	260	244	-16	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
10/18/2024 20:20	48901	FOSP_T2	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
10/18/2024 20:20	24204	PROV_T3	1	3	2	5.6	2	-3.6	0	0	0	0	0	0	0	0
10/18/2024 20:20	67502	WEWI_T2	560	591	31	0.36	0.39	0.03	0	0	0	0	0	0	0	0
10/18/2024 20:21	11604	CEAL_T1	6	6	0	1.8	1.8	0	0	0	0	0	0	0	0	0
10/18/2024 20:21	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:21	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/18/2024 20:21	20403	ASHF_T2	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
10/18/2024 20:21	63601	LETO_T1	2	2	0	0.25	0.55	0.3	0.74	0.64	1	1	0	900	900	0
10/18/2024 20:21	50103	HARR_T3	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
10/18/2024 20:21	50107	HARR_T3	1	1	0	7.1	7.6	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/18/2024 20:21	66505	SMAN_T2	3	3	0	1.17	1.43	0.26	0	0	0	0	0	0	0	0
10/18/2024 20:21	15203	SFAR_T2	0	0	0	0	0	0	-1.38	-1.38	0	0	0	0	0	0
10/18/2024 20:21	11603	CEAL_T1	1	1	0	8.2	0.6	-7.6	0	0	0	0	0	0	0	0
10/18/2024 20:21	50105	HARR_T3	6	6	0	5.55	5.7	0.15	0	0	0	0	0	0	0	0
10/18/2024 20:21	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
10/18/2024 20:21	63602	LETO_T1	12	103	91	0.11	0.22	0.11	0	0	0	0	0	0	0	0
10/18/2024 20:21	64401	LAND_T1	0	0	0	0	0	0	-0.55	-0.53	1	0	-1	600	0	-600
10/18/2024 20:21	44502	HAMI_T2	1	1	0	3.2	3.7	0.5	0	0	0	0	0	0	0	0
10/18/2024 20:21	50102	HARR_T3	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
10/18/2024 20:21	14801	TREI_T2	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
10/18/2024 20:21	14802	TREI_T2	0	3	3	0	0.1	0.1	0.27	0.27	0	0	0	0	0	0
10/18/2024 20:21	22901	HARW_T1	0	0	0	0	0	0	-0.5	-0.61	1	1	0	1200	1200	0
10/18/2024 20:21	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:21	50201	HARR_T3	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
10/18/2024 20:21	50202	HARR_T3	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/18/2024 20:21	45901	AUBU_T1	0	0	0	0	0	0	1.05	1.04	0	0	0	0	0	0
10/18/2024 20:21	20402	ASHF_T2	1	0	-1	3.9	0	-3.9	0	0	0	0	0	0	0	0
10/18/2024 20:21	20401	ASHF_T2	4	9	5	0.3	0.3	0	0	0	0	0	0	0	0	0
10/18/2024 20:21	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:21	66504	SMAN_T2	0	0	0	0	0	0	-1.36	-1.43	0	0	0	0	0	0
10/18/2024 20:21	60101	COCA_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
10/18/2024 20:21	44505	HAMI_T2	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
10/18/2024 20:22	65602	QVIL_T2	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
10/18/2024 20:22	48302	ORWI_T2	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
10/18/2024 20:22	65603	QVIL_T2	183	234	51	0.18	0.2	0.02	0	0	0	0	0	0	0	0
10/18/2024 20:22	63501	HEID_TBK1-2	37	36	-1	0.25	0.3	0.05	0.42	0.42	0	0	0	0	0	0
10/18/2024 20:22	67001	STHI_T2	314	368	54	0.19	0.24	0.05	0	0	0	0	0	0	0	0
10/18/2024 20:22	44201	POIN_T1	0	4	4	0	0.1	0.1	-1.88	-1.87	2	2	0	2100	2100	0
10/18/2024 20:22	14802	TREI_T2	0	3	3	0	0.1	0.1	0.54	0.62	0	0	0	0	0	0
10/18/2024 20:22	65604	QVIL_T2	2	3	1	0.3	0.37	0.07	0	0	0	0	0	0	0	0
10/18/2024 20:22	45303	WBER_T2	9	9	0	1.73	1.77	0.04	0	0	0	0	0	0	0	0
10/18/2024 20:22	15103	UPHA_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
10/18/2024 20:22	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:22	45702	LIND_T2	1	2	1	1	1.3	0.3	0	0	0	0	0	0	0	0
10/18/2024 20:22	14801	TREI_T2	2	2	0	0.1	0.25	0.15	0.33	0.31	0	0	0	0	0	0
10/18/2024 20:22	66505	SMAN_T2	3	3	0	1.17	1.43	0.26	0	0	0	0	0	0	0	0
10/18/2024 20:22	16301	ALPA_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
10/18/2024 20:22	65601	QVIL_T2	88	113	25	0.19	0.23	0.04	0	0	0	0	0	0	0	0
10/18/2024 20:22	45902	AUBU_T1	0	0	0	0	0	0	0.39	0.25	2	2	0	1200	1200	0
10/18/2024 20:22	45302	WBER_T2	0	0	0	0	0	0	0.66	0.7	0	0	0	0	0	0
10/18/2024 20:22	60201	ATGL_T2	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
10/18/2024 20:22	67401	WAKE_T2	81	75	-6	0.24	0.29	0.05	-0.86	-0.87	0	0	0	0	0	0
10/18/2024 20:22	46004	BERW_T2	0	3	3	0	0.1	0.1	-0.85	-0.91	0	0	0	0	0	0
10/18/2024 20:22	46001	BERW_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
10/18/2024 20:22	60101	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:22	67002	STHI_T2	31	53	22	0.13	0.13	0	1.14	1.1	0	0	0	0	0	0
10/18/2024 20:22	45701	LIND_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
10/18/2024 20:23	24202	PROV_T4	0	22	22	0	0.2	0.2	0	0	1	1	0	1200	1200	0
10/18/2024 20:23	57201	ROSS_T1	7	16	9	0.11	0.18	0.07	-0.59	-0.69	0	0	0	0	0	0
10/18/2024 20:23	44703	MUNC_T2	2	2	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
10/18/2024 20:23	66703	STRA_T1	31	48	17	0.23	0.23	0	-0.31	-0.38	0	0	0	0	0	0
10/18/2024 20:23	40601	PIGR_T1	117	193	76	0.21	0.35	0.14	0	0	0	0	0	0	0	0
10/18/2024 20:23	67203	TEHI_T1	0	0	0	0	0	0	1.36	1.18	1	1	0	900	900	0
10/18/2024 20:23	67201	TEHI_T1	3	6	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/18/2024 20:23	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:23	60101	COCA_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
10/18/2024 20:23	44802	EDAN_T2	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
10/18/2024 20:23	44702	MUNC_T2	12	40	28	0.12	0.18	0.06	0	0	0	0	0	0	0	0
10/18/2024 20:23	51004	NHAR_T1	2	2	0	5.9	5.75	-0.15	-0.38	-0.38	0	0	0	0	0	0
10/18/2024 20:23	43301	WATS_T2	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
10/18/2024 20:23	24204	PROV_T3	1	3	2	5.6	2	-3.6	0	0	0	0	0	0	0	0
10/18/2024 20:23	67605	WARW_T1	45	98	53	0.68	0.53	-0.15	-1.24	-1.23	0	0	0	0	0	0
10/18/2024 20:23	63501	HEID_TBK1-2	37	36	-1	0.25	0.3	0.05	0.42	0.42	0	0	0	0	0	0
10/18/2024 20:23	67503	WEWI_T2	22	26	4	0.52	0.5	-0.02	0	0	0	0	0	0	0	0
10/18/2024 20:23	51002	NHAR_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
10/18/2024 20:23	40602	PIGR_T1	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
10/18/2024 20:23	48901	FOSP_T2	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
10/18/2024 20:23	64401	LAND_T1	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
10/18/2024 20:23	24201	PROV_T3	5	62	57	1.34	0.24	-1.1	0	0	1	1	0	1200	1200	0
10/18/2024 20:23	67502	WEWI_T2	560	591	31	0.36	0.39	0.03	-0.55	-0.55	0	0	0	0	0	0
10/18/2024 20:23	44701	MUNC_T2	85	215	130	0.18	0.25	0.07	0	0	0	0	0	0	0	0
10/18/2024 20:23	43302	WATS_T2	4	4	0	0.5	0.85	0.35	0	0	0	0	0	0	0	0
10/18/2024 20:24	62607	ENGL_T1	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
10/18/2024 20:24	42001	MNVL_T2	11	30	19	0.15	0.25	0.1	0.23	0.23	0	0	0	0	0	0
10/18/2024 20:24	22602	KIMB_T1	0	1	1	0	0.4	0.4	0.29	0.29	0	0	0	0	0	0
10/18/2024 20:24	15001	BLMO_T1	4	4	0	0.2	0.53	0.33	0	0	0	0	0	0	0	0
10/18/2024 20:24	54505	ENOL_T2	1	1	0	1.3	1.2	-0.1	-1.38	-1.38	1	1	0	600	600	0
10/18/2024 20:24	44904	SCOT_T1	0	0	0	0	0	0	0.39	0.34	0	0	0	0	0	0
10/18/2024 20:24	54506	ENOL_T2	0	0	0	0	0	0	0.46	0.49	1	1	0	600	600	0
10/18/2024 20:24	40602	PIGR_T1	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
10/18/2024 20:24	41301	FISH_T1	2	2	0	1.3	1.65	0.35	0	0	0	0	0	0	0	0
10/18/2024 20:24	65503	MOJO_T2	57	57	0	0.12	0.12	0	-0.43	-0.49	0	0	0	0	0	0
10/18/2024 20:24	67503	WEWI_T2	22	26	4	0.52	0.5	-0.02	0	0	0	0	0	0	0	0
10/18/2024 20:24	15703	TANN_T2	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:24	67502	WEWI_T2	560	591	31	0.36	0.39	0.03	-0.55	-0.55	0	0	0	0	0	0
10/18/2024 20:24	40601	PIGR_T1	117	193	76	0.21	0.35	0.14	0	0	0	0	0	0	0	0
10/18/2024 20:24	42002	MNVL_T2	1	1	0	4.2	4	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:24	54502	ENOL_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:24	15702	TANN_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
10/18/2024 20:24	54603	SUMM_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:24	13701	SCHN_T2	0	0	0	0	0	0	-0.2	-0.2	1	1	0	600	600	0
10/18/2024 20:24	60701	BREC_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
10/18/2024 20:24	54501	ENOL_T2	4	4	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:24	65502	MOJO_T2	260	244	-16	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
10/18/2024 20:24	54601	SUMM_T2	13	13	0	0.99	0.95	-0.04	0	0	0	0	0	0	0	0
10/18/2024 20:24	54602	SUMM_T2	13	15	2	0.37	0.43	0.06	0	0	1	1	0	600	600	0
10/18/2024 20:24	67002	STHI_T2	31	53	22	0.13	0.13	0	1.14	1.1	0	0	0	0	0	0
10/18/2024 20:24	13704	SCHN_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
10/18/2024 20:24	67001	STHI_T2	314	368	54	0.19	0.24	0.05	0	0	0	0	0	0	0	0
10/18/2024 20:24	62605	ENGL_T1	0	4	4	0	0.1	0.1	-0.85	-0.83	0	0	0	0	0	0
10/18/2024 20:25	20402	ASHF_T2	1	0	-1	3.9	0	-3.9	0	0	0	0	0	0	0	0
10/18/2024 20:25	62606	ENGL_T1	0	0	0	0	0	0	-0.98	-1.03	1	1	0	900	900	0
10/18/2024 20:25	20401	ASHF_T2	4	9	5	0.3	0.3	0	0	0	0	0	0	0	0	0
10/18/2024 20:25	65502	MOJO_T2	260	244	-16	0.18	0.17	-0.01	-1.04	-1.11	0	0	0	0	0	0
10/18/2024 20:25	67001	STHI_T2	314	368	54	0.19	0.24	0.05	0.02	0.02	0	0	0	0	0	0
10/18/2024 20:25	44801	EDAN_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
10/18/2024 20:25	48901	FOSP_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
10/18/2024 20:25	64401	LAND_T1	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
10/18/2024 20:25	65503	MOJO_T2	57	57	0	0.12	0.12	0	0	0	0	0	0	0	0	0
10/18/2024 20:25	63501	HEID_TBK1-2	37	36	-1	0.25	0.3	0.05	0.42	0.42	0	0	0	0	0	0
10/18/2024 20:25	15702	TANN_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
10/18/2024 20:25	10801	OHHI_T1	0	0	0	0	0	0	-1.04	-1.07	1	1	0	900	900	0
10/18/2024 20:25	44802	EDAN_T2	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
10/18/2024 20:25	50105	HARR_T3	6	6	0	5.55	5.7	0.15	0	0	0	0	0	0	0	0
10/18/2024 20:25	65001	NEFF_T2	4	9	5	0.1	0.17	0.07	0.02	0.07	0	0	0	0	0	0
10/18/2024 20:25	50202	HARR_T3	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/18/2024 20:25	65003	NEFF_T2	4	4	0	0.3	0.43	0.13	0	0	0	0	0	0	0	0
10/18/2024 20:25	20403	ASHF_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
10/18/2024 20:25	50107	HARR_T3	1	1	0	7.1	7.6	0.5	0	0	0	0	0	0	0	0
10/18/2024 20:25	15703	TANN_T2	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:25	49804	UNIV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/18/2024 20:25	67103	SPRI_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
10/18/2024 20:25	62605	ENGL_T1	0	4	4	0	0.1	0.1	-0.85	-0.83	0	0	0	0	0	0
10/18/2024 20:25	50102	HARR_T3	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
10/18/2024 20:25	48902	FOSP_T2	0	0	0	0	0	0	-0.04	-0.07	0	0	0	0	0	0
10/18/2024 20:25	45902	AUBU_T1	0	0	0	0	0	0	0.2	0.13	1	1	0	600	600	0
10/18/2024 20:25	50103	HARR_T3	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
10/18/2024 20:25	49803	UNIV_T1	1	1	0	6.1	5.2	-0.9	-1.16	-1.15	0	0	0	0	0	0
10/18/2024 20:25	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:25	50201	HARR_T3	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
10/18/2024 20:25	67002	STHI_T2	31	53	22	0.13	0.13	0	0	0	0	0	0	0	0	0
10/18/2024 20:26	44703	MUNC_T2	2	2	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
10/18/2024 20:26	65604	QVIL_T2	2	3	1	0.3	0.37	0.07	0	0	0	0	0	0	0	0
10/18/2024 20:26	41202	KENM_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/18/2024 20:26	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.13	0	0	0	0	0	0
10/18/2024 20:26	44701	MUNC_T2	85	215	130	0.18	0.25	0.07	0	0	0	0	0	0	0	0
10/18/2024 20:26	15203	SFAR_T2	0	0	0	0	0	0	-1.38	-1.41	0	0	0	0	0	0
10/18/2024 20:26	67605	WARW_T1	45	98	53	0.68	0.53	-0.15	-1.24	-1.23	0	0	0	0	0	0
10/18/2024 20:26	13704	SCHN_T2	0	4	4	0	0.13	0.13	-0.48	-0.49	0	0	0	0	0	0
10/18/2024 20:26	65602	QVIL_T2	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
10/18/2024 20:26	45303	WBER_T2	9	9	0	1.73	1.77	0.04	-0.4	-0.41	0	0	0	0	0	0
10/18/2024 20:26	65601	QVIL_T2	88	113	25	0.19	0.23	0.04	-0.37	-0.33	0	0	0	0	0	0
10/18/2024 20:26	43801	SWIL_T1	2	2	0	3.25	3.3	0.05	0	0	0	0	0	0	0	0
10/18/2024 20:26	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:26	40901	JESH_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
10/18/2024 20:26	46101	MACI_T2	0	0	0	0	0	0	-0.61	-0.61	1	1	0	1200	1200	0
10/18/2024 20:26	60801	BUCK_T1	66	104	38	0.23	0.25	0.02	-0.23	-0.26	0	0	0	0	0	0
10/18/2024 20:26	41205	KENM_T2	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
10/18/2024 20:26	67401	WAKE_T2	81	75	-6	0.24	0.29	0.05	0	0	0	0	0	0	0	0
10/18/2024 20:26	66504	SMAN_T2	0	0	0	0	0	0	-1.36	-1.43	0	0	0	0	0	0
10/18/2024 20:26	57002	WHHI_T2	0	0	0	0	0	0	-1.68	-1.67	1	1	0	1200	1200	0
10/18/2024 20:26	40902	JESH_T1	0	0	0	0	0	0	-0.83	-0.87	0	0	0	0	0	0
10/18/2024 20:26	60803	BUCK_T1	26	29	3	0.27	0.33	0.06	0	0	0	0	0	0	0	0
10/18/2024 20:26	62605	ENGL_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 20:26	57006	WHHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/18/2024 20:26	66505	SMAN_T2	3	3	0	1.17	1.43	0.26	0	0	0	0	0	0	0	0
10/18/2024 20:26	44702	MUNC_T2	12	40	28	0.12	0.18	0.06	0	0	0	0	0	0	0	0
10/18/2024 20:26	57003	WHHI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:26	65603	QVIL_T2	183	234	51	0.18	0.2	0.02	0	0	0	0	0	0	0	0
10/18/2024 20:26	11202	ELHE_T2	0	0	0	0	0	0	0.42	0.4	1	1	0	1200	1200	0
10/18/2024 20:26	62607	ENGL_T1	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
10/18/2024 20:26	44802	EDAN_T2	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/18/2024 20:27	59302	MCAL_T1	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:27	60102	COCA_T1	0	0	0	0	0	0	-0.34	0.03	2	2	0	1200	1200	0
10/18/2024 20:27	67203	TEHI_T1	0	0	0	0	0	0	1.36	1.18	1	1	0	900	900	0
10/18/2024 20:27	54601	SUMM_T2	13	13	0	0.99	0.95	-0.04	-3.09	-3.07	2	2	0	2100	2100	0
10/18/2024 20:27	62605	ENGL_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 20:27	57006	WHHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/18/2024 20:27	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:27	46001	BERW_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
10/18/2024 20:27	67503	WEWI_T2	22	26	4	0.52	0.5	-0.02	0	0	0	0	0	0	0	0
10/18/2024 20:27	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:27	16301	ALPA_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
10/18/2024 20:27	67605	WARW_T1	45	98	53	0.68	0.53	-0.15	0	0	0	0	0	0	0	0
10/18/2024 20:27	46801	HEPB_T2	2	2	0	0.6	0.75	0.15	0.46	0.45	0	0	0	0	0	0
10/18/2024 20:27	57004	WHHI_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
10/18/2024 20:27	63601	LETO_T1	2	2	0	0.25	0.55	0.3	0.74	0.64	1	1	0	900	900	0
10/18/2024 20:27	57003	WHHI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:27	63602	LETO_T1	12	103	91	0.11	0.22	0.11	0	0	0	0	0	0	0	0
10/18/2024 20:27	41902	REED_T1	0	0	0	0	0	0	0.9	0.88	0	0	0	0	0	0
10/18/2024 20:27	67401	WAKE_T2	81	75	-6	0.24	0.29	0.05	-0.86	-0.87	0	0	0	0	0	0
10/18/2024 20:27	44502	HAMI_T2	1	1	0	3.2	3.7	0.5	-0.99	-0.97	0	0	0	0	0	0
10/18/2024 20:27	41901	REED_T1	9	9	0	0.26	0.29	0.03	0	0	0	0	0	0	0	0
10/18/2024 20:27	59301	MCAL_T1	2	2	0	1.6	1.5	-0.1	-1.34	-1.33	0	0	0	0	0	0
10/18/2024 20:27	54602	SUMM_T2	13	15	2	0.37	0.43	0.06	0	0	0	0	0	0	0	0
10/18/2024 20:27	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
10/18/2024 20:27	67402	WAKE_T2	0	0	0	0	0	0	0.35	0.27	0	0	0	0	0	0
10/18/2024 20:27	67201	TEHI_T1	3	6	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/18/2024 20:27	54603	SUMM_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:27	67502	WEWI_T2	560	591	31	0.36	0.39	0.03	-0.55	-0.55	0	0	0	0	0	0
10/18/2024 20:27	66505	SMAN_T2	3	3	0	1.17	1.43	0.26	-0.32	-0.26	1	1	0	900	900	0
10/18/2024 20:27	62607	ENGL_T1	0	0	0	0	0	0	-1.72	-1.74	0	0	0	0	0	0
10/18/2024 20:28	65502	MOJO_T2	260	244	-16	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
10/18/2024 20:28	40602	PIGR_T1	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
10/18/2024 20:28	43505	WWIL_T1	1	1	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
10/18/2024 20:28	66505	SMAN_T2	3	3	0	1.17	1.43	0.26	0	0	0	0	0	0	0	0
10/18/2024 20:28	46803	HEPB_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
10/18/2024 20:28	63802	HEMP_T1	0	0	0	0	0	0	-0.4	-0.31	0	0	0	0	0	0
10/18/2024 20:28	66302	MCGO_T2	0	0	0	0	0	0	-2.14	-2.06	0	0	0	0	0	0
10/18/2024 20:28	43202	MVIL_T2	0	0	0	0	0	0	-0.74	-0.77	0	0	0	0	0	0
10/18/2024 20:28	62601	ENGL_T1	0	0	0	0	0	0	-0.27	-0.23	0	0	0	0	0	0
10/18/2024 20:28	45702	LIND_T2	1	2	1	1	1.3	0.3	-0.61	-0.6	0	0	0	0	0	0
10/18/2024 20:28	50504	MECH_T1	97	78	-19	0.13	0.13	0	0	0	0	0	0	0	0	0
10/18/2024 20:28	50506	MECH_T1	41	3	-38	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 20:28	46801	HEPB_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
10/18/2024 20:28	50503	MECH_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 20:28	66504	SMAN_T2	0	0	0	0	0	0	-0.68	-0.71	0	0	0	0	0	0
10/18/2024 20:28	67401	WAKE_T2	81	75	-6	0.24	0.29	0.05	-0.86	-0.87	0	0	0	0	0	0
10/18/2024 20:28	63803	HEMP_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:28	64305	LINC_T1	1	2	1	0.2	0.3	0.1	-0.64	-0.65	0	0	0	0	0	0
10/18/2024 20:28	48901	FOSP_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
10/18/2024 20:28	43506	WWIL_T1	1	1	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
10/18/2024 20:28	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/18/2024 20:28	63804	HEMP_T1	3	1	-2	1.77	5.1	3.33	0	0	0	0	0	0	0	0
10/18/2024 20:28	12001	HATF_T1	0	0	0	0	0	0	1.27	1.3	1	1	0	600	600	0
10/18/2024 20:28	16301	ALPA_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
10/18/2024 20:28	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/18/2024 20:28	60201	ATGL_T2	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
10/18/2024 20:28	43504	WWIL_T1	10	12	2	0.37	0.52	0.15	0.48	0.49	0	0	0	0	0	0
10/18/2024 20:28	50501	MECH_T1	4	4	0	1.65	1.58	-0.07	-0.18	-0.13	0	0	0	0	0	0
10/18/2024 20:28	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
10/18/2024 20:28	13303	ORVI_T1	0	0	0	0	0	0	0.7	0.74	0	0	0	0	0	0
10/18/2024 20:28	66303	MCGO_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/18/2024 20:28	50502	MECH_T1	1	1	0	3	3.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 20:28	62605	ENGL_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 20:28	40601	PIGR_T1	117	193	76	0.21	0.35	0.14	0	0	0	0	0	0	0	0
10/18/2024 20:28	65503	MOJO_T2	57	57	0	0.12	0.12	0	0	0	0	0	0	0	0	0
10/18/2024 20:28	46004	BERW_T2	0	3	3	0	0.1	0.1	-1.7	-1.82	0	0	0	0	0	0
10/18/2024 20:28	50505	MECH_T1	5	3	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 20:28	67605	WARW_T1	45	98	53	0.68	0.53	-0.15	-1.24	-1.23	0	0	0	0	0	0
10/18/2024 20:29	50502	MECH_T1	1	1	0	3	3.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 20:29	20401	ASHF_T2	4	9	5	0.3	0.3	0	-0.29	-0.4	0	0	0	0	0	0
10/18/2024 20:29	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
10/18/2024 20:29	50505	MECH_T1	5	3	-2	0.1	0.1	0	-1.01	-0.99	0	0	0	0	0	0
10/18/2024 20:29	54601	SUMM_T2	13	13	0	0.99	0.95	-0.04	-3.09	-3.07	2	2	0	2100	2100	0
10/18/2024 20:29	58402	MORO_T1	0	0	0	0	0	0	0.25	0.16	1	1	0	900	900	0
10/18/2024 20:29	14802	TREI_T2	0	3	3	0	0.1	0.1	0.27	0.31	0	0	0	0	0	0
10/18/2024 20:29	40602	PIGR_T1	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
10/18/2024 20:29	50504	MECH_T1	97	78	-19	0.13	0.13	0	0	0	0	0	0	0	0	0
10/18/2024 20:29	57201	ROSS_T1	7	16	9	0.11	0.18	0.07	-0.59	-0.69	0	0	0	0	0	0
10/18/2024 20:29	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:29	50506	MECH_T1	41	3	-38	0.1	0.1	0	-0.01	0.06	0	0	0	0	0	0
10/18/2024 20:29	64802	MONE_T2	88	60	-28	0.2	0.21	0.01	0.22	0.22	0	0	0	0	0	0
10/18/2024 20:29	59302	MCAL_T1	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:29	57003	WHHI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:29	40701	FFLD_T1	75	79	4	0.5	0.65	0.15	0	0	0	0	0	0	0	0
10/18/2024 20:29	62605	ENGL_T1	0	4	4	0	0.1	0.1	-0.85	-0.83	0	0	0	0	0	0
10/18/2024 20:29	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/18/2024 20:29	59301	MCAL_T1	2	2	0	1.6	1.5	-0.1	-1.34	-1.33	0	0	0	0	0	0
10/18/2024 20:29	50503	MECH_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 20:29	57203	ROSS_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
10/18/2024 20:29	57004	WHHI_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
10/18/2024 20:29	50504	MECH_T1	4	4	0	1.65	1.58	-0.07	0	0	0	0	0	0	0	0
10/18/2024 20:29	54603	SUMM_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:29	46101	MACI_T2	0	0	0	0	0	0	-0.61	-0.61	1	1	0	1200	1200	0
10/18/2024 20:29	13704	SCHN_T2	0	4	4	0	0.13	0.13	-0.48	-0.49	0	0	0	0	0	0
10/18/2024 20:29	44201	POIN_T1	0	4	4	0	0.1	0.1	-3.76	-3.73	4	4	0	4200	4200	0
10/18/2024 20:29	57006	WHHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/18/2024 20:29	40702	FFLD_T1	145	187	42	0.4	0.47	0.07	0	0	0	0	0	0	0	0
10/18/2024 20:29	67001	STHI_T2	314	368	54	0.19	0.24	0.05	0	0	0	0	0	0	0	0
10/18/2024 20:29	60701	BREC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:29	43802	SWIL_T1	0	0	0	0	0	0	-0.24	-0.25	1	1	0	600	600	0
10/18/2024 20:29	40703	FFLD_T1	4	4	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
10/18/2024 20:29	64801	MONE_T2	53	55	2	0.22	0.28	0.06	0	0	0	0	0	0	0	0
10/18/2024 20:29	43801	SWIL_T1	2	2	0	3.25	3.3	0.05	0	0	0	0	0	0	0	0
10/18/2024 20:29	66303	MCGO_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/18/2024 20:29	44802	EDAN_T2	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
10/18/2024 20:29	60803	BUCK_T1	26	29	3	0.27	0.33	0.06	0	0	0	0	0	0	0	0
10/18/2024 20:29	20402	ASHF_T2	1	0	-1	3.9	0	-3.9	0	0	0	0	0	0	0	0
10/18/2024 20:29	40902	JESH_T1	0	0	0	0	0	0	-0.83	-0.87	0	0	0	0	0	0
10/18/2024 20:29	48901	FOSP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:29	67002	STHI_T2	31	53	22	0.13	0.13	0	0.57	0.55	0	0	0	0	0	0
10/18/2024 20:29	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:29	60801	BUCK_T1	66	104	38	0.23	0.25	0.02	-0.46	-0.52	0	0	0	0	0	0
10/18/2024 20:29	40901	JESH_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
10/18/2024 20:29	14801	TREI_T2	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
10/18/2024 20:29	40601	PIGR_T1	117	193	76	0.21	0.35	0.14	0	0	0	0	0	0	0	0
10/18/2024 20:29	41902	REED_T1	0	0	0	0	0	0	0.9	0.88	0	0	0	0	0	0
10/18/2024 20:29	66301	MCGO_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
10/18/2024 20:29	65802	RTWN_T2	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
10/18/2024 20:29	54602	SUMM_T2	13	15	2	0.37	0.43	0.06	0	0	0	0	0	0	0	0
10/18/2024 20:29	41901	REED_T1	9	9	0	0.26	0.29	0.03	0	0	0	0	0	0	0	0
10/18/2024 20:30	50501	MECH_T1	4	4	0	1.58	1.63	0.05	0	0	0	0	0	0	0	0
10/18/2024 20:30	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
10/18/2024 20:30	50504	MECH_T1	78	43	-35	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
10/18/2024 20:30	50505	MECH_T1	2	4	2	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 20:30	54505	ENOL_T2	1	1	0	1.2	0.8	-0.4	-2.76	-2.76	2	2	0	1200	1200	0
10/18/2024 20:30	57003	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:30	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 20:30	67001	STHI_T2	329	367	38	0.22	0.24	0.02	0	0	0	0	0	0	0	0
10/18/2024 20:30	57004	WHHI_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
10/18/2024 20:30	21206	ECAR_T2	1	1	0	6.9	7.2	0.3	1.25	1.31	0	0	0	0	0	0
10/18/2024 20:30	40602	PIGR_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
10/18/2024 20:30	43402	BENT_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
10/18/2024 20:30	62602	ENGL_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
10/18/2024 20:30	45702	LIND_T2	1	1	0	0.8	1.3	0.5	-0.61	-0.6	0	0	0	0	0	0
10/18/2024 20:30	50502	MECH_T1	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
10/18/2024 20:30	67002	STHI_T2	46	51	5	0.13	0.14	0.01	0.57	0.55	0	0	0	0	0	0
10/18/2024 20:30	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:30	62605	ENGL_T1	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 20:30	54601	SUMM_T2	13	13	0	0.95	0.81	-0.14	-3.09	-3.07	2	2	0	2100	2100	0
10/18/2024 20:30	64401	LAND_T1	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
10/18/2024 20:30	44201	POIN_T1	0	4	4	0	0.1	0.1	-1.88	-1.87	2	2	0	2100	2100	0
10/18/2024 20:30	40601	PIGR_T1	0	154	154	0	0.26	0.26	0	0	0	0	0	0	0	0
10/18/2024 20:30	64403	LAND_T1	0	0	0	0	0	0	-1.68	-1.71	1	1	0	900	900	0
10/18/2024 20:30	57006	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:30	54603	SUMM_T2	2	2	0	0.3	0.2	-0.1	-0.58	-0.59	1	1	0	900	900	0
10/18/2024 20:30	50506	MECH_T1	3	0	-3	0.1	0	-0.1	-0.01	0.06	0	0	0	0	0	0
10/18/2024 20:30	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:30	50503	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:30	54602	SUMM_T2	15	10	-5	0.43	0.19	-0.24	0	0	0	0	0	0	0	0
10/18/2024 20:30	54501	ENOL_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:31	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:31	62605	ENGL_T1	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 20:31	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
10/18/2024 20:31	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.3	0	0	0	0	0	0
10/18/2024 20:31	57006	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:31	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:31	20601	GRWO_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 20:31	57201	ROSS_T1	9	16	7	0.18	0.23	0.05	-0.59	-0.69	0	0	0	0	0	0
10/18/2024 20:31	54501	ENOL_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:31	46004	BERW_T2	0	3	3	0	0.1	0.1	-0.85	-0.91	0	0	0	0	0	0
10/18/2024 20:31	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:31	40901	JESH_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:31	57002	WHHI_T2	0	0	0	0	0	0	-1.68	-1.67	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/18/2024 20:31	20603	GRWO_T2	6	9	3	0.12	0.16	0.04	0.27	0.29	0	0	0	0	0	0
10/18/2024 20:31	57203	ROSS_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
10/18/2024 20:31	66505	SMAN_T2	3	3	0	1.43	1.27	-0.16	0	0	0	0	0	0	0	0
10/18/2024 20:31	44801	EDAN_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
10/18/2024 20:31	57003	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:31	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:31	45303	WBER_T2	9	9	0	1.74	1.79	0.05	-0.4	-0.41	0	0	0	0	0	0
10/18/2024 20:31	66301	MCGO_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
10/18/2024 20:31	62606	ENGL_T1	0	0	0	0	0	0	-0.98	-1.03	1	1	0	900	900	0
10/18/2024 20:31	54503	ENOL_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	600	600	0
10/18/2024 20:31	40602	PIGR_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:31	66303	MCGO_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/18/2024 20:31	54505	ENOL_T2	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
10/18/2024 20:31	24201	PROV_T3	10	114	104	0.88	0.19	-0.69	0	0	1	1	0	1200	1200	0
10/18/2024 20:31	14801	TREI_T2	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
10/18/2024 20:31	24204	PROV_T3	2	3	1	2.8	1.97	-0.83	0	0	0	0	0	0	0	0
10/18/2024 20:31	14802	TREI_T2	1	3	2	0.1	0.1	0	0.27	0.31	0	0	0	0	0	0
10/18/2024 20:31	40601	PIGR_T1	186	157	-29	0.36	0.26	-0.1	-0.85	-0.84	0	0	0	0	0	0
10/18/2024 20:32	50505	MECH_T1	2	4	2	0.1	0.1	0	-1.01	-0.99	0	0	0	0	0	0
10/18/2024 20:32	50504	MECH_T1	78	43	-35	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
10/18/2024 20:32	50506	MECH_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:32	60801	BUCK_T1	93	78	-15	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
10/18/2024 20:32	65602	QVIL_T2	3	1	-2	0.17	0.2	0.03	0	0	0	0	0	0	0	0
10/18/2024 20:32	50502	MECH_T1	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
10/18/2024 20:32	60101	COCA_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
10/18/2024 20:32	40602	PIGR_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:32	67502	WEWI_T2	574	557	-17	0.38	0.37	-0.01	0	0	0	0	0	0	0	0
10/18/2024 20:32	63501	HEID_TBK1-2	36	31	-5	0.3	0.2	-0.1	0.42	0.42	0	0	0	0	0	0
10/18/2024 20:32	44702	MUNC_T2	16	40	24	0.18	0.18	0	0	0	0	0	0	0	0	0
10/18/2024 20:32	13704	SCHN_T2	0	4	4	0	0.13	0.13	-0.48	-0.49	0	0	0	0	0	0
10/18/2024 20:32	40601	PIGR_T1	186	157	-29	0.36	0.26	-0.1	-0.85	-0.84	0	0	0	0	0	0
10/18/2024 20:32	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:32	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:32	64305	LINC_T1	1	2	1	0.2	0.3	0.1	-0.64	-0.65	0	0	0	0	0	0
10/18/2024 20:32	54504	ENOL_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
10/18/2024 20:32	44701	MUNC_T2	153	248	95	0.23	0.27	0.04	0	0	0	0	0	0	0	0
10/18/2024 20:32	50503	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:32	66504	SMAN_T2	0	0	0	0	0	0	-0.68	-0.71	0	0	0	0	0	0
10/18/2024 20:32	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/18/2024 20:32	67106	SPHI_T2	0	0	0	0	0	0	-1.23	-1.24	1	1	0	900	900	0
10/18/2024 20:32	54501	ENOL_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:32	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:32	67401	WAKE_T2	71	62	-9	0.3	0.23	-0.07	-1.72	-1.74	0	0	0	0	0	0
10/18/2024 20:32	67605	WARW_T1	58	99	41	0.64	0.6	-0.04	-1.24	-1.23	0	0	0	0	0	0
10/18/2024 20:32	65603	QVIL_T2	228	189	-39	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
10/18/2024 20:32	66505	SMAN_T2	3	3	0	1.43	1.27	-0.16	0	0	0	0	0	0	0	0
10/18/2024 20:32	67503	WEWI_T2	26	22	-4	0.5	0.56	0.06	-0.31	-0.31	0	0	0	0	0	0
10/18/2024 20:32	20403	ASHF_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
10/18/2024 20:32	20401	ASHF_T2	5	9	4	0.28	0.32	0.04	0	0	0	0	0	0	0	0
10/18/2024 20:32	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
10/18/2024 20:32	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:32	44703	MUNC_T2	2	2	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
10/18/2024 20:32	54505	ENOL_T2	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
10/18/2024 20:32	13303	ORVI_T1	0	0	0	0	0	0	0.7	0.74	0	0	0	0	0	0
10/18/2024 20:32	65604	QVIL_T2	3	3	0	0.37	0.27	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:32	50501	MECH_T1	4	4	0	1.58	1.63	0.05	0	0	0	0	0	0	0	0
10/18/2024 20:32	60803	BUCK_T1	26	26	0	0.34	0.3	-0.04	0	0	0	0	0	0	0	0
10/18/2024 20:32	65601	QVIL_T2	111	67	-44	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
10/18/2024 20:33	67002	STHI_T2	46	51	5	0.13	0.14	0.01	0	0	0	0	0	0	0	0
10/18/2024 20:33	63801	HEMP_T1	0	0	0	0	0	0	-0.2	-0.38	0	0	0	0	0	0
10/18/2024 20:33	57003	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:33	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:33	57002	WHHI_T2	0	0	0	0	0	0	-1.68	-1.67	1	1	0	1200	1200	0
10/18/2024 20:33	63501	HEID_TBK1-2	36	31	-5	0.3	0.2	-0.1	0.42	0.42	0	0	0	0	0	0
10/18/2024 20:33	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:33	42001	MNVL_T2	30	59	29	0.25	0.34	0.09	0	0	0	0	0	0	0	0
10/18/2024 20:33	57403	SPAN_T1	11	27	16	0.15	0.19	0.04	0	0	0	0	0	0	0	0
10/18/2024 20:33	54501	ENOL_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:33	15001	BLMO_T1	4	4	0	0.35	0.53	0.18	0	0	0	0	0	0	0	0
10/18/2024 20:33	67001	STHI_T2	329	367	38	0.22	0.24	0.02	0.02	0.02	0	0	0	0	0	0
10/18/2024 20:33	42201	SHEN_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
10/18/2024 20:33	13704	SCHN_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
10/18/2024 20:33	63804	HEMP_T1	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
10/18/2024 20:33	44301	BEAV_T2	0	0	0	0	0	0	-0.48	-0.56	1	1	0	600	600	0
10/18/2024 20:33	54505	ENOL_T2	1	1	0	1.2	0.8	-0.4	-1.38	-1.38	1	1	0	600	600	0
10/18/2024 20:33	66502	SMAN_T2	0	0	0	0	0	0	-0.15	-0.03	0	0	0	0	0	0
10/18/2024 20:33	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:33	57401	SPAN_T1	2	2	0	1.15	1.3	0.15	0	0	0	0	0	0	0	0
10/18/2024 20:33	42002	MNVL_T2	1	1	0	4	4	0	0.04	0.06	0	0	0	0	0	0
10/18/2024 20:33	66505	SMAN_T2	3	3	0	1.43	1.27	-0.16	0	0	0	0	0	0	0	0
10/18/2024 20:33	50623	CCTY_T2	5	5	0	5.46	5.14	-0.32	0	0	0	0	0	0	0	0
10/18/2024 20:33	50625	CCTY_T2	5	5	0	2.6	2.5	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:33	57006	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:33	13701	SCHN_T2	0	0	0	0	0	0	-0.2	-0.2	1	1	0	600	600	0
10/18/2024 20:33	62605	ENGL_T1	1	4	3	0.1	0.1	0	-0.85	-0.83	0	0	0	0	0	0
10/18/2024 20:33	50624	CCTY_T2	2	2	0	5.8	5.55	-0.25	0	0	0	0	0	0	0	0
10/18/2024 20:33	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:33	48901	FOSP_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
10/18/2024 20:34	57104	SPHI_T2	4	3	-1	0.18	1.4	1.22	-1.89	-1.88	1	1	0	900	900	0
10/18/2024 20:34	64204	KINZ_T1	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
10/18/2024 20:34	50103	HARR_T3	2	2	0	0.45	0.85	0.4	0	0	0	0	0	0	0	0
10/18/2024 20:34	66505	SMAN_T2	3	3	0	1.43	1.27	-0.16	0	0	0	0	0	0	0	0
10/18/2024 20:34	64801	MONE_T2	50	55	5	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
10/18/2024 20:34	46001	BERW_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
10/18/2024 20:34	65503	MOJO_T2	57	5	-52	0.12	0.1	-0.02	-0.43	-0.49	0	0	0	0	0	0
10/18/2024 20:34	62605	ENGL_T1	1	4	3	0.1	0.1	0	-0.85	-0.83	0	0	0	0	0	0
10/18/2024 20:34	65003	NEFF_T2	4	4	0	0.43	0.43	0	-1.37	-1.35	1	1	0	1200	1200	0
10/18/2024 20:34	63804	HEMP_T1	1	1	0	5.1	5.1	0	0.73	0.71	0	0	0	0	0	0
10/18/2024 20:34	50105	HARR_T3	6	6	0	5.8	5.67	-0.13	0	0	0	0	0	0	0	0
10/18/2024 20:34	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.13	0	0	0	0	0	0
10/18/2024 20:34	67201	TEHI_T1	6	0	-6	0.13	0	-0.13	0.37	0.39	0	0	0	0	0	0
10/18/2024 20:34	44201	POIN_T1	0	4	4	0	0.1	0.1	-1.88	-1.87	2	2	0	2100	2100	0
10/18/2024 20:34	50201	HARR_T3	0	1	1	0	0.3	0.3	0	0	1	1	0	1200	1200	0
10/18/2024 20:34	64802	MONE_T2	58	35	-23	0.21	0.18	-0.03	0.22	0.22	0	0	0	0	0	0
10/18/2024 20:34	50102	HARR_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/18/2024 20:34	65502	MOJO_T2	244	84	-160	0.17	0.11	-0.06	-1.04	-1.11	0	0	0	0	0	0
10/18/2024 20:34	50202	HARR_T3	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/18/2024 20:34	65001	NEFF_T2	9	4	-5	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
10/18/2024 20:34	57106	SPHI_T2	3	3	0	2.2	1.97	-0.23	0	0	0	0	0	0	0	0
10/18/2024 20:34	64202	KINZ_T1	4	2	-2	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/18/2024 20:34	64203	KINZ_T1	0	0	0	0	0	0	0.47	0.42	0	0	0	0	0	0
10/18/2024 20:34	58401	MORO_T1	0	0	0	0	0	0	-0.65	-0.69	0	0	0	0	0	0
10/18/2024 20:34	64201	KINZ_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/18/2024 20:34	67401	WAKE_T2	71	62	-9	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
10/18/2024 20:34	57101	SPHI_T2	5	5	0	1.14	1.28	0.14	0	0	0	0	0	0	0	0
10/18/2024 20:34	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
10/18/2024 20:34	50107	HARR_T3	1	1	0	7.6	7.5	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:35	50501	MECH_T1	4	4	0	1.58	1.63	0.05	0	0	0	0	0	0	0	0
10/18/2024 20:35	50503	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:35	59301	MCAL_T1	2	2	0	1.5	1.7	0.2	-1.34	-1.33	0	0	0	0	0	0
10/18/2024 20:35	65503	MOJO_T2	57	5	-52	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
10/18/2024 20:35	59302	MCAL_T1	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
10/18/2024 20:35	65502	MOJO_T2	244	84	-160	0.17	0.11	-0.06	-1.04	-1.11	0	0	0	0	0	0
10/18/2024 20:35	41902	REED_T1	0	0	0	0	0	0	0.9	0.88	0	0	0	0	0	0
10/18/2024 20:35	54603	SUMM_T2	2	2	0	0.3	0.2	-0.1	-0.58	-0.59	1	1	0	900	900	0
10/18/2024 20:35	57401	SPAN_T1	2	2	0	1.15	1.3	0.15	0	0	0	0	0	0	0	0
10/18/2024 20:35	41301	FISH_T1	2	2	0	1.3	1.65	0.35	-0.2	-0.22	0	0	0	0	0	0
10/18/2024 20:35	50506	MECH_T1	3	0	-3	0.1	0	-0.1	-0.02	0.12	0	0	0	0	0	0
10/18/2024 20:35	40602	PIGR_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:35	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:35	54601	SUMM_T2	13	13	0	0.95	0.81	-0.14	0	0	0	0	0	0	0	0
10/18/2024 20:35	50505	MECH_T1	2	4	2	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 20:35	66302	MCGO_T2	0	0	0	0	0	0	-1.07	-1.03	0	0	0	0	0	0
10/18/2024 20:35	57403	SPAN_T1	11	27	16	0.15	0.19	0.04	-0.05	-0.07	0	0	0	0	0	0
10/18/2024 20:35	40601	PIGR_T1	186	157	-29	0.36	0.26	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:35	66303	MCGO_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/18/2024 20:35	50504	MECH_T1	78	43	-35	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
10/18/2024 20:35	50502	MECH_T1	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
10/18/2024 20:35	67002	STHI_T2	46	51	5	0.13	0.14	0.01	0	0	0	0	0	0	0	0
10/18/2024 20:35	67001	STHI_T2	329	367	38	0.22	0.24	0.02	0.02	0.02	0	0	0	0	0	0
10/18/2024 20:35	67605	WARW_T1	58	99	41	0.64	0.6	-0.04	-1.24	-1.23	0	0	0	0	0	0
10/18/2024 20:35	44802	EDAN_T2	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
10/18/2024 20:35	57003	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:35	41901	REED_T1	9	9	0	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
10/18/2024 20:35	57006	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:35	54602	SUMM_T2	15	10	-5	0.43	0.19	-0.24	0	0	0	0	0	0	0	0
10/18/2024 20:36	58401	MORO_T1	0	0	0	0	0	0	-1.3	-1.38	0	0	0	0	0	0
10/18/2024 20:36	40901	JESH_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:36	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:36	50504	MECH_T1	78	43	-35	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
10/18/2024 20:36	50505	MECH_T1	2	4	2	0.1	0.1	0	0	0	0	0	0	0	0	0
10/18/2024 20:36	57401	SPAN_T1	2	2	0	1.15	1.3	0.15	0	0	0	0	0	0	0	0
10/18/2024 20:36	50502	MECH_T1	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
10/18/2024 20:36	40902	JESH_T1	0	0	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0
10/18/2024 20:36	50503	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:36	50506	MECH_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:36	50501	MECH_T1	4	4	0	1.58	1.63	0.05	-0.18	-0.13	0	0	0	0	0	0
10/18/2024 20:36	57403	SPAN_T1	11	27	16	0.15	0.19	0.04	-0.05	-0.07	0	0	0	0	0	0
10/18/2024 20:37	59302	MCAL_T1	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
10/18/2024 20:37	57205	ROSS_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
10/18/2024 20:37	58401	MORO_T1	0	0	0	0	0	0	-0.69	-0.66	0	0	0	0	0	0
10/18/2024 20:37	59301	MCAL_T1	2	2	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
10/18/2024 20:37	62605	ENGL_T1	1	4	3	0.1	0.1	0	-0.83	-0.88	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/18/2024 20:37	57201	ROSS_T1	9	16	7	0.18	0.23	0.05	0	0	0	0	0	0	0	0
10/18/2024 20:37	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:37	44201	POIN_T1	0	4	4	0	0.1	0.1	-1.87	-1.83	2	2	0	2100	2100	0
10/18/2024 20:37	57003	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:37	57006	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:38	66505	SMAN_T2	3	3	0	1.43	1.27	-0.16	0	0	0	0	0	0	0	0
10/18/2024 20:38	59003	MIFF_T1	1	1	0	0.2	0.5	0.3	0.34	0.47	0	0	0	0	0	0
10/18/2024 20:38	54602	SUMM_T2	15	10	-5	0.43	0.19	-0.24	0	0	0	0	0	0	0	0
10/18/2024 20:38	54603	SUMM_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:38	65601	QVIL_T2	111	67	-44	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
10/18/2024 20:38	66504	SMAN_T2	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
10/18/2024 20:38	57003	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:38	57006	WHHI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:38	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:38	59002	MIFF_T1	4	5	1	0.28	0.62	0.34	0	0	0	0	0	0	0	0
10/18/2024 20:38	65603	QVIL_T2	228	189	-39	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
10/18/2024 20:38	57004	WHHI_T2	0	0	0	0	0	0	-0.65	-0.68	0	0	0	0	0	0
10/18/2024 20:38	65602	QVIL_T2	3	1	-2	0.17	0.2	0.03	0	0	0	0	0	0	0	0
10/18/2024 20:38	65604	QVIL_T2	3	3	0	0.37	0.27	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:38	54601	SUMM_T2	13	13	0	0.95	0.81	-0.14	-3.07	-3.15	2	2	0	2100	2100	0
10/18/2024 20:38	14204	EALL_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
10/18/2024 20:39	57201	ROSS_T1	9	16	7	0.18	0.23	0.05	0	0	0	0	0	0	0	0
10/18/2024 20:39	41901	REED_T1	9	9	0	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
10/18/2024 20:39	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2024 20:39	57203	ROSS_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
10/18/2024 20:41	54505	ENOL_T2	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
10/18/2024 20:41	54504	ENOL_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
10/18/2024 20:41	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:41	54501	ENOL_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/18/2024 20:41	58402	MORO_T1	0	0	0	0	0	0	0.16	0.14	1	1	0	900	900	0
10/18/2024 20:42	50201	HARR_T3	0	1	1	0	0.3	0.3	0	0	1	1	0	1200	1200	0
10/18/2024 20:42	50202	HARR_T3	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/18/2024 20:42	50105	HARR_T3	6	6	0	5.8	5.67	-0.13	0	0	0	0	0	0	0	0
10/18/2024 20:42	50103	HARR_T3	2	2	0	0.45	0.85	0.4	0	0	0	0	0	0	0	0
10/18/2024 20:42	50107	HARR_T3	1	1	0	7.6	7.5	-0.1	0	0	0	0	0	0	0	0
10/18/2024 20:42	50102	HARR_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/18/2024 20:45	16302	ALPA_T2	0	0	0	0	0	0	0.6	0.57	0	0	0	0	0	0
10/18/2024 20:52	54504	ENOL_T2	0	0	0	0	0	0	-0.56	-0.49	0	0	0	0	0	0
10/18/2024 20:52	54502	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/18/2024 20:52	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/18/2024 20:56	67002	STHI_T2	50	74	24	0.14	0.15	0.01	0	0	0	0	0	0	0	0
10/18/2024 20:56	67001	STHI_T2	364	366	2	0.24	0.26	0.02	0.01	0	0	0	0	0	0	0
10/18/2024 21:01	64401	LAND_T1	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
10/18/2024 21:03	46802	HEPB_T1	1	1	0	1.2	1.3	0.1	-0.37	-0.39	0	0	0	0	0	0
10/18/2024 21:04	63803	HEMP_T1	0	5	5	0	0.1	0.1	0.59	0.59	0	0	0	0	0	0
10/18/2024 21:04	63804	HEMP_T1	1	3	2	5.1	1.73	-3.37	0	0	0	0	0	0	0	0
10/18/2024 21:04	63801	HEMP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 21:08	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
10/18/2024 21:08	67401	WAKE_T2	37	66	29	0.19	0.26	0.07	0	0	0	0	0	0	0	0
10/18/2024 21:09	62607	ENGL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 21:09	62605	ENGL_T1	0	10	10	0	0.14	0.14	-0.88	-0.92	0	0	0	0	0	0
10/18/2024 22:04	62604	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/18/2024 22:04	62607	ENGL_T1	0	68	68	0	0.1	0.1	-0.91	-0.9	0	0	0	0	0	0
10/18/2024 22:04	62605	ENGL_T1	0	30	30	0	0.11	0.11	0	0	0	0	0	0	0	0
10/18/2024 22:46	64904	MILL_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
10/18/2024 23:55	57203	ROSS_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
10/19/2024 0:47	28401	HART_T2	0	0	0	0	0	0	-1.16	-1.17	1	1	0	900	900	0
10/19/2024 7:02	66502	SMAN_T2	0	0	0	0	0	0	-0.12	-0.2	0	0	0	0	0	0
10/19/2024 7:02	64305	LINC_T1	0	0	0	0	0	0	-0.59	-0.54	0	0	0	0	0	0
10/19/2024 7:02	65601	QVIL_T2	0	0	0	0	0	0	-1.34	-1.29	1	1	0	900	900	0
10/19/2024 7:02	23403	HONE_T1	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
10/19/2024 7:02	65001	NEFF_T2	0	0	0	0	0	0	-2.08	0.02	0	0	0	0	0	0
10/19/2024 7:02	67502	WEWI_T2	0	0	0	0	0	0	-4.3	-4.47	3	3	0	2700	2700	0
10/19/2024 7:02	67201	TEHI_T1	0	0	0	0	0	0	0.72	0.76	0	0	0	0	0	0
10/19/2024 7:02	63501	HEID_TBK1-2	1	1	0	0.6	0.2	-0.4	1.38	1.44	0	0	0	0	0	0
10/19/2024 7:02	62602	ENGL_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
10/19/2024 7:02	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/19/2024 7:02	67002	STHI_T2	0	0	0	0	0	0	1.72	1.68	0	0	0	0	0	0
10/19/2024 7:02	24201	PROV_T3	1	1	0	7.1	5.5	-1.6	0	0	0	0	0	0	0	0
10/19/2024 7:02	64302	LINC_T2	0	0	0	0	0	0	1.05	1.02	0	0	0	0	0	0
10/19/2024 7:02	60801	BUCK_T1	0	18	18	0	0.16	0.16	-1.9	-1.86	2	2	0	1200	1200	0
10/19/2024 7:02	65004	NEFF_T2	0	0	0	0	0	0	-0.97	-0.97	1	1	0	600	600	0
10/19/2024 7:02	26704	HEML_T2	0	0	0	0	0	0	-0.88	-0.85	1	1	0	1200	1200	0
10/19/2024 7:02	62605	ENGL_T1	0	0	0	0	0	0	-5.82	-5.76	0	0	0	0	0	0
10/19/2024 7:02	67503	WEWI_T2	1	1	0	5.7	6.5	0.8	-0.84	-0.84	0	0	0	0	0	0
10/19/2024 7:02	67402	WAKE_T2	0	0	0	0	0	0	-1.97	-1.88	4	4	0	2400	2400	0
10/19/2024 7:02	67001	STHI_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
10/19/2024 7:02	62607	ENGL_T1	0	0	0	0	0	0	-4.96	-4.84	4	4	0	1200	1200	0
10/19/2024 7:02	24204	PROV_T3	1	1	0	6.2	5.7	-0.5	0	0	0	0	0	0	0	0
10/19/2024 7:02	67401	WAKE_T2	0	0	0	0	0	0	-4.24	-4.53	0	0	0	0	0	0
10/19/2024 7:02	65003	NEFF_T2	0	0	0	0	0	0	-0.97	-1.02	1	1	0	600	600	0
10/19/2024 7:02	67605	WARW_T1	18	16	-2	0.58	0.48	-0.1	0	0	0	0	0	0	0	0
10/19/2024 7:02	66504	SMAN_T2	0	0	0	0	0	0	-0.59	-0.53	0	0	0	0	0	0
10/19/2024 7:02	65603	QVIL_T2	0	0	0	0	0	0	-0.06	-0.19	0	0	0	0	0	0
10/19/2024 7:02	62601	ENGL_T1	0	0	0	0	0	0	-1.6	-1.66	0	0	0	0	0	0
10/19/2024 7:02	21206	ECAR_T2	1	1	0	6	6.8	0.8	1.21	1.28	0	0	0	0	0	0
10/19/2024 7:02	65503	MOJO_T2	0	0	0	0	0	0	-1.03	-0.9	0	0	0	0	0	0
10/19/2024 7:02	60101	COCA_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
10/19/2024 7:02	66503	SMAN_T2	0	0	0	0	0	0	0.27	0.34	0	0	0	0	0	0
10/19/2024 7:02	60701	BREC_T1	0	0	0	0	0	0	0.09	0.16	0	0	0	0	0	0
10/19/2024 7:02	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
10/19/2024 7:02	63601	LETO_T1	0	0	0	0	0	0	1.3	1.36	2	2	0	1800	1800	0
10/19/2024 7:02	22602	KIMB_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
10/19/2024 7:02	66505	SMAN_T2	3	1	-2	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
10/19/2024 7:02	65502	MOJO_T2	0	0	0	0	0	0	-2.28	-2.36	0	0	0	0	0	0
10/19/2024 7:02	24202	PROV_T4	1	10	9	3.5	0.11	-3.39	0	0	1	1	0	1200	1200	0
10/19/2024 7:02	64802	MONE_T2	0	0	0	0	0	0	0.39	-0.83	0	0	0	0	0	0
10/19/2024 7:02	62606	ENGL_T1	0	0	0	0	0	0	-3.68	-3.57	4	4	0	3000	3000	0
10/19/2024 7:02	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/19/2024 7:02	60201	ATGL_T2	0	1	1	0	0.1	0.1	-1.03	-1.18	0	0	0	0	0	0
10/19/2024 7:02	67103	SPRI_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
10/19/2024 7:03	67201	TEHI_T1	0	0	0	0	0	0	0.72	0.76	0	0	0	0	0	0
10/19/2024 7:03	64302	LINC_T2	0	0	0	0	0	0	1.05	1.02	0	0	0	0	0	0
10/19/2024 7:03	64401	LAND_T1	0	0	0	0	0	0	-2.79	-2.66	0	0	0	0	0	0
10/19/2024 7:03	66703	STRA_T1	0	0	0	0	0	0	-0.36	-0.23	0	0	0	0	0	0
10/19/2024 7:03	62601	ENGL_T1	0	0	0	0	0	0	-1.6	-1.66	0	0	0	0	0	0
10/19/2024 7:03	48302	ORWI_T2	2	2	0	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
10/19/2024 7:03	67503	WEWI_T2	1	1	0	5.7	6.5	0.8	-0.84	-0.84	0	0	0	0	0	0
10/19/2024 7:03	57403	SPAN_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
10/19/2024 7:03	62602	ENGL_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
10/19/2024 7:03	65502	MOJO_T2	0	0	0	0	0	0	-2.28	-2.36	0	0	0	0	0	0
10/19/2024 7:03	67605	WARW_T1	18	16	-2	0.58	0.48	-0.1	0	0	0	0	0	0	0	0
10/19/2024 7:03	62605	ENGL_T1	0	0	0	0	0	0	-5.82	-5.76	0	0	0	0	0	0
10/19/2024 7:03	67203	TEHI_T1	0	0	0	0	0	0	3.36	3.86	2	2	0	1800	1800	0
10/19/2024 7:03	66504	SMAN_T2	0	0	0	0	0	0	-4.15	-3.72	0	0	0	0	0	0
10/19/2024 7:03	63501	HEID_TBK1-2	1	1	0	0.6	0.2	-0.4	2.3	2.4	0	0	0	0	0	0
10/19/2024 7:03	67002	STHI_T2	0	0	0	0	0	0	3.01	2.94	0	0	0	0	0	0
10/19/2024 7:03	65601	QVIL_T2	0	0	0	0	0	0	-1.34	-1.29	1	1	0	900	900	0
10/19/2024 7:03	24202	PROV_T4	1	10	9	3.5	0.11	-3.39	0	0	1	1	0	1200	1200	0
10/19/2024 7:03	66505	SMAN_T2	3	1	-2	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
10/19/2024 7:03	66301	MCGO_T2	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
10/19/2024 7:03	24204	PROV_T3	1	1	0	6.2	5.7	-0.5	0	0	0	0	0	0	0	0
10/19/2024 7:03	67402	WAKE_T2	0	0	0	0	0	0	-1.97	-1.88	4	4	0	2400	2400	0
10/19/2024 7:03	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/19/2024 7:03	64403	LAND_T1	0	4	4	0	0.1	0.1	-1.89	-1.89	1	1	0	900	900	0
10/19/2024 7:03	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/19/2024 7:03	67103	SPRI_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
10/19/2024 7:03	63801	HEMP_T1	0	151	151	0	0.22	0.22	-0.72	-0.78	0	0	0	0	0	0
10/19/2024 7:03	65001	NEFF_T2	0	0	0	0	0	0	-0.08	0.02	0	0	0	0	0	0
10/19/2024 7:03	64802	MONE_T2	0	0	0	0	0	0	0.39	-0.83	0	0	0	0	0	0
10/19/2024 7:03	67001	STHI_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
10/19/2024 7:03	24201	PROV_T3	1	1	0	7.1	5.5	-1.6	0	0	0	0	0	0	0	0
10/19/2024 7:03	45902	AUBU_T1	0	0	0	0	0	0	0	0.08	4	4	0	2400	2400	0
10/19/2024 7:03	66502	SMAN_T2	0	0	0	0	0	0	-0.87	-1.39	0	0	0	0	0	0
10/19/2024 7:03	63804	HEMP_T1	1	5	4	5.4	1.26	-4.14	0.61	0.62	0	0	0	0	0	0
10/19/2024 7:03	67106	SPRI_T2	0	0	0	0	0	0	-1.38	-1.8	1	1	0	900	900	0
10/19/2024 7:03	62606	ENGL_T1	0	0	0	0	0	0	-3.68	-3.57	4	4	0	3000	3000	0
10/19/2024 7:03	60102	COCA_T1	0	0	0	0	0	0	0.61	0.87	2	2	0	1200	1200	0
10/19/2024 7:03	60701	BREC_T1	0	0	0	0	0	0	0.09	0.16	0	0	0	0	0	0
10/19/2024 7:03	13502	MCMI_T1	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
10/19/2024 7:03	66303	MCGO_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
10/19/2024 7:03	23403	HONE_T1	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
10/19/2024 7:03	66503	SMAN_T2	0	0	0	0	0	0	0.27	0.34	0	0	0	0	0	0
10/19/2024 7:03	66302	MCGO_T2	0	0	0	0	0	0	-1.05	-1.04	0	0	0	0	0	0
10/19/2024 7:03	60101	COCA_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
10/19/2024 7:03	45901	AUBU_T1	0	0	0	0	0	0	0.95	0.94	0	0	0	0	0	0
10/19/2024 7:03	60201	ATGL_T2	0	1	1	0	0.1	0.1	-1.03	-1.18	0	0	0	0	0	0
10/19/2024 7:03	62607	ENGL_T1	0	0	0	0	0	0	-3.72	-3.63	3	3	0	900	900	0
10/19/2024 7:03	65004	NEFF_T2	0	0	0	0	0	0	-0.97	-0.97	1	1	0	600	600	0
10/19/2024 7:03	63803	HEMP_T1	0	120	120	0	0.24	0.24	0.38	0.37	0	0	0	0	0	0
10/19/2024 7:03	65501	MOJO_T1	0	0	0	0	0	0	-0.39	-0.36	0	0	0	0	0	0
10/19/2024 7:03	22602	KIMB_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
10/19/2024 7:03	21206	ECAR_T2	1	1	0	6	6.8	0.8	1.21	1.28	0	0	0	0	0	0
10/19/2024 7:03	65003	NEFF_T2	0	0	0	0	0	0	-0.97	-1.02	1	1	0	600	600	0
10/19/2024 7:03	63601	LETO_T1	0	0	0	0	0	0	1.3	1.36	2	2	0	1800	1800	0
10/19/2024 7:03	65802	RTWN_T2	0	0	0	0	0	0	-0.26	-0.18	0	0	0	0	0	0
10/19/2024 7:03	67502	WEWI_T2	0	0	0	0	0	0	-4.3	-4.47	3	3	0	2700	2700	0
10/19/2024 7:03	13503	MCMI_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
10/19/2024 7:03	63802	HEMP_T1	0	0	0	0	0	0	0.03	-0.23	0	0	0	0	0	0
10/19/2024 7:03	13501	MCMI_T1	0	0	0	0	0	0	-0.01	0.04	0	0	0	0	0	0
10/19/2024 7:03	57201	ROSS_T1	0	0	0	0	0	0	-0.81	-0.91	0	0	0	0	0	0
10/19/2024 7:03	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
10/19/2024 7:03	60801	BUCK_T1	0	18	18	0	0.16	0.16	-2.85	-2.79	3	3	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/19/2024 7:03	64305	LINC_T1	0	0	0	0	0	0	-1.18	-1.07	0	0	0	0	0	0
10/19/2024 7:03	26704	HEML_T2	0	0	0	0	0	0	-0.88	-0.85	1	1	0	1200	1200	0
10/19/2024 7:03	67401	WAKE_T2	0	0	0	0	0	0	-5.3	-5.67	0	0	0	0	0	0
10/19/2024 7:03	65603	QVIL_T2	0	0	0	0	0	0	-0.12	-0.37	0	0	0	0	0	0
10/19/2024 7:03	65503	MOJO_T2	0	0	0	0	0	0	-1.54	-1.36	0	0	0	0	0	0
10/19/2024 7:04	66302	MCGO_T2	0	0	0	0	0	0	-1.05	-1.04	0	0	0	0	0	0
10/19/2024 7:04	45902	AUBU_T1	0	0	0	0	0	0	0	0.08	4	4	0	2400	2400	0
10/19/2024 7:04	66303	MCGO_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
10/19/2024 7:04	45901	AUBU_T1	0	0	0	0	0	0	0.95	0.94	0	0	0	0	0	0
10/19/2024 7:04	48302	ORWI_T2	2	2	0	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
10/19/2024 7:04	57403	SPAN_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
10/19/2024 7:04	57201	ROSS_T1	0	0	0	0	0	0	-0.81	-0.91	0	0	0	0	0	0
10/19/2024 7:11	67001	STHI_T2	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
10/19/2024 7:12	62607	ENGL_T1	0	0	0	0	0	0	-1.21	-1.24	1	1	0	300	300	0
10/19/2024 10:00	57203	ROSS_T1	0	0	0	0	0	0	-0.38	-0.36	0	0	0	0	0	0
10/19/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
10/19/2024 10:00	44201	POIN_T1	3	0	-3	0.1	0	-0.1	-1.52	-1.5	1	1	0	1200	1200	0
10/19/2024 10:00	15203	SFAR_T2	2	4	2	0.25	0.43	0.18	-1.34	-1.34	0	0	0	0	0	0
10/19/2024 10:00	57205	ROSS_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/19/2024 10:00	67503	WEWI_T2	1	1	0	6.8	6.9	0.1	-0.29	-0.29	0	0	0	0	0	0
10/19/2024 11:58	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/19/2024 12:01	52403	GRPA_T2	9	13	4	0.64	0.71	0.07	-0.16	-0.15	0	0	0	0	0	0
10/19/2024 12:01	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/19/2024 12:01	52402	GRPA_T2	4	5	1	0.23	0.6	0.37	0	0	0	0	0	0	0	0
10/19/2024 12:01	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/19/2024 12:16	10903	COOP_T2	2	31	29	0.25	0.15	-0.1	-0.47	-0.47	1	1	0	600	600	0
10/19/2024 12:16	10901	COOP_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
10/19/2024 12:20	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/19/2024 12:20	28701	HAML_T2	3	3	0	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
10/19/2024 12:20	28703	HAML_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/19/2024 12:30	15203	SFAR_T2	4	5	1	0.58	0.58	0	-1.29	-1.27	0	0	0	0	0	0
10/19/2024 13:57	15204	SFAR_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
10/19/2024 13:57	15203	SFAR_T2	7	5	-2	0.4	0.44	0.04	0	0	0	0	0	0	0	0
10/19/2024 16:32	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/19/2024 20:13	28703	HAML_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/19/2024 20:13	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/19/2024 20:17	15203	SFAR_T2	0	0	0	0	0	0	-1.35	-1.36	0	0	0	0	0	0
10/19/2024 20:19	10903	COOP_T2	40	91	51	0.17	0.24	0.07	-0.49	-0.5	1	1	0	600	600	0
10/19/2024 20:24	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.37	0	0	0	0	0	0
10/19/2024 20:27	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/19/2024 20:34	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/19/2024 21:57	15204	SFAR_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
10/19/2024 21:57	15203	SFAR_T2	4	50	46	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/19/2024 22:11	52403	GRPA_T2	11	3	-8	0.61	1.3	0.69	-0.29	-0.27	0	0	0	0	0	0
10/19/2024 22:11	52401	GRPA_T2	158	67	-91	0.44	0.15	-0.29	0	0	0	0	0	0	0	0
10/19/2024 22:11	52404	GRPA_T2	1	1	0	1.4	0.9	-0.5	0	0	0	0	0	0	0	0
10/19/2024 22:11	52402	GRPA_T2	30	4	-26	0.36	0.8	0.44	0	0	0	0	0	0	0	0
10/20/2024 7:45	64603	LEOL_T1	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
10/20/2024 8:05	44201	POIN_T1	22	5	-17	0.13	0.14	0.01	-2.19	-2.18	0	0	0	0	0	0
10/20/2024 8:06	57101	SPHI_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/20/2024 8:06	57104	SPHI_T2	2	2	0	1.05	1.45	0.4	-1.84	-1.86	0	0	0	0	0	0
10/20/2024 8:06	57106	SPHI_T2	3	3	0	1.1	0.87	-0.23	0	0	0	0	0	0	0	0
10/20/2024 8:12	55101	WERT_T1	0	0	0	0	0	0	-1.25	-1.23	0	0	0	0	0	0
10/20/2024 8:22	13004	NBET_T2	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
10/20/2024 8:26	61102	BERK_T5	0	0	0	0	0	0	0.35	0.23	0	0	0	0	0	0
10/20/2024 8:32	14802	TREI_T2	0	0	0	0	0	0	0.34	0.38	0	0	0	0	0	0
10/20/2024 8:33	58401	MORO_T1	0	0	0	0	0	0	-1.18	-1.18	0	0	0	0	0	0
10/20/2024 8:33	66301	MCGO_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
10/20/2024 8:33	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 8:34	45801	HEGI_T1	0	0	0	0	0	0	-0.54	-0.51	0	0	0	0	0	0
10/20/2024 8:34	15703	TANN_T2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
10/20/2024 8:34	15702	TANN_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
10/20/2024 8:45	57702	PAXT_T1	0	0	0	0	0	0	0.08	0.15	0	0	0	0	0	0
10/20/2024 8:50	61701	ELIZ_T1	1	2	1	4.5	4.3	-0.2	0.68	0.75	0	0	0	0	0	0
10/20/2024 9:58	10805	CHHI_T2	1	1	0	8.2	8.2	0	-1.21	-1.22	0	0	0	0	0	0
10/20/2024 9:59	29401	BELT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 9:59	29402	BELT_T1	53	25	-28	0.87	0.68	-0.19	0	0	0	0	0	0	0	0
10/20/2024 9:59	57302	MOAL_T2	0	0	0	0	0	0	-1.58	-1.54	0	0	0	0	0	0
10/20/2024 9:59	57303	MOAL_T2	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
10/20/2024 10:00	14802	TREI_T2	0	1	1	0	0.2	0.2	0.37	0.35	0	0	0	0	0	0
10/20/2024 10:00	60102	COCA_T1	2	1	-1	0.35	0.3	-0.05	-0.08	0.18	1	1	0	600	600	0
10/20/2024 10:00	60101	COCA_T1	4	4	0	0.38	0.43	0.05	0	0	0	0	0	0	0	0
10/20/2024 10:00	45801	HEGI_T1	0	0	0	0	0	0	-0.5	-0.45	0	0	0	0	0	0
10/20/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.36	0.42	0	0	0	0	0	0
10/20/2024 10:00	67502	WEWI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/20/2024 10:00	67503	WEWI_T2	1	1	0	6.7	6.6	-0.1	-0.32	-0.29	0	0	0	0	0	0
10/20/2024 10:00	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.23	0	0	0	0	0	0
10/20/2024 10:02	53501	EVIL_T2	2	4	2	0.65	0.48	-0.17	-0.75	-0.77	0	0	0	0	0	0
10/20/2024 10:02	51502	SWAT_T1	527	541	14	0.49	0.51	0.02	0	0	0	0	0	0	0	0
10/20/2024 10:02	51501	SWAT_T1	93	75	-18	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
10/20/2024 10:02	42503	ALTA_T2	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
10/20/2024 10:02	51503	SWAT_T1	25	8	-17	0.24	0.51	0.27	-0.66	-0.67	0	0	0	0	0	0
10/20/2024 10:03	67505	WEWI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 10:03	63501	HEID_TBK1-2	37	5	-32	0.26	0.42	0.16	0.33	0.43	0	0	0	0	0	0
10/20/2024 10:03	67501	WEWI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/20/2024 10:04	43103	SMIL_T2	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
10/20/2024 10:04	47101	MARL_T1	0	0	0	0	0	0	-0.17	-0.27	0	0	0	0	0	0
10/20/2024 10:04	43105	SMIL_T2	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
10/20/2024 10:04	54506	ENOL_T2	0	0	0	0	0	0	0.38	0.31	0	0	0	0	0	0
10/20/2024 10:04	43101	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/20/2024 10:04	27501	WEIS_T1	0	0	0	0	0	0	-1.28	-1.28	0	0	0	0	0	0
10/20/2024 10:04	43102	SMIL_T2	6	6	0	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
10/20/2024 10:04	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/20/2024 10:05	24702	FLND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/20/2024 10:05	24703	FLND_T2	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
10/20/2024 10:06	13704	SCHN_T2	0	1	1	0	0	0	-0.41	-0.43	0	0	0	0	0	0
10/20/2024 10:07	20403	ASHF_T2	1	1	0	0.1	0.2	0.1	0.11	0.14	0	0	0	0	0	0
10/20/2024 10:07	20401	ASHF_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
10/20/2024 10:08	46203	DANV_T2	0	0	0	0	0	0	-2.06	-2.07	0	0	0	0	0	0
10/20/2024 10:09	64602	LEOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 10:11	22901	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 10:11	22903	HARW_T1	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
10/20/2024 10:11	24901	WHHA_T1	2	1	-1	1	0.5	-0.5	0.53	-0.73	0	0	0	0	0	0
10/20/2024 10:11	24902	WHHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/20/2024 10:12	66201	SISP_T2	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
10/20/2024 10:13	64305	LINC_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/20/2024 10:13	63802	HEMP_T1	1	0	-1	0.1	0	-0.1	-0.13	-0.15	0	0	0	0	0	0
10/20/2024 10:13	63803	HEMP_T1	16	3	-13	0.11	0.2	0.09	0	0	0	0	0	0	0	0
10/20/2024 10:13	64303	LINC_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/20/2024 10:13	63801	HEMP_T1	13	5	-8	0.15	0.28	0.13	0	0	0	0	0	0	0	0
10/20/2024 10:13	64301	LINC_T1	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
10/20/2024 10:13	63804	HEMP_T1	5	5	0	1.16	1.12	-0.04	0	0	0	0	0	0	0	0
10/20/2024 10:14	42802	SELI_T1	0	2	2	0	0.4	0.4	-1.49	-1.44	1	1	0	900	900	0
10/20/2024 10:14	52006	LING_T2	2	2	0	1.65	1.5	-0.15	0	0	0	0	0	0	0	0
10/20/2024 10:14	52004	LING_T2	5	6	1	3.14	2.72	-0.42	0.14	0.17	0	0	0	0	0	0
10/20/2024 10:14	52002	LING_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
10/20/2024 10:15	51804	EBEN_T2	3	3	0	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
10/20/2024 10:15	22101	EDEL_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
10/20/2024 10:15	10801	CHHI_T1	1	2	1	0.3	0.15	-0.15	-1.64	-1.65	1	1	0	600	600	0
10/20/2024 10:15	61306	EARL_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
10/20/2024 10:15	61302	EARL_T1	1	1	0	1	1.5	0.5	0	0	0	0	0	0	0	0
10/20/2024 10:15	61304	EARL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/20/2024 10:18	60101	COCA_T1	2	4	2	0.35	0.45	0.1	0.22	0.23	0	0	0	0	0	0
10/20/2024 10:18	60102	COCA_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/20/2024 10:18	27101	GFLD_T2	0	0	0	0	0	0	0.72	0.7	0	0	0	0	0	0
10/20/2024 10:18	62605	ENGL_T1	0	0	0	0	0	0	-1.51	-1.51	0	0	0	0	0	0
10/20/2024 10:20	44801	EDAN_T2	2	3	1	0.2	0.55	0.35	-0.49	-0.46	0	0	0	0	0	0
10/20/2024 10:20	23502	GEOR_T1	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
10/20/2024 10:22	40501	CRES_T2	7	8	1	0.33	0.34	0.01	0	0	0	0	0	0	0	0
10/20/2024 10:22	40502	CRES_T2	11	18	7	0.37	0.25	-0.12	-0.4	-0.39	0	0	0	0	0	0
10/20/2024 10:23	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 10:24	20403	ASHF_T2	1	1	0	0.2	0.6	0.4	0.14	0.12	0	0	0	0	0	0
10/20/2024 10:24	20401	ASHF_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/20/2024 10:24	14303	SUMN_T1	3	3	0	7.2	7.2	0	0	0	0	0	0	0	0	0
10/20/2024 10:24	52402	GRPA_T2	4	7	3	0.98	0.9	-0.08	0	0	0	0	0	0	0	0
10/20/2024 10:24	64604	LEOL_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
10/20/2024 10:24	52403	GRPA_T2	61	201	140	0.28	0.33	0.05	-0.21	-0.19	0	0	0	0	0	0
10/20/2024 10:24	52404	GRPA_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
10/20/2024 10:24	14307	SUMN_T1	0	0	0	0	0	0	0.37	0.45	0	0	0	0	0	0
10/20/2024 10:25	51904	COPA_T1	5	5	0	0.78	0.94	0.16	0	0	0	0	0	0	0	0
10/20/2024 10:25	67103	SPRI_T1	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
10/20/2024 10:25	51905	COPA_T1	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
10/20/2024 10:25	67105	SPRI_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/20/2024 10:25	55105	WERT_T1	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
10/20/2024 10:26	45002	LIME_2	1	1	0	4.6	4.9	0.3	0	0	0	0	0	0	0	0
10/20/2024 10:26	45003	LIME_2	2	1	-1	2.15	4.6	2.45	0.12	0.16	0	0	0	0	0	0
10/20/2024 10:26	45001	LIME_2	19	32	13	0.18	0.42	0.24	0	0	0	0	0	0	0	0
10/20/2024 10:29	55101	WERT_T1	0	0	0	0	0	0	-1.27	-1.18	0	0	0	0	0	0
10/20/2024 10:33	57702	PAXT_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
10/20/2024 10:38	16902	MECK_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
10/20/2024 10:39	42902	MIDD_T2	0	0	0	0	0	0	-0.73	-0.71	0	0	0	0	0	0
10/20/2024 10:39	42903	MIDD_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
10/20/2024 10:40	50105	HARR_T3	6	6	0	5.57	5.48	-0.09	0	0	0	0	0	0	0	0
10/20/2024 10:40	50102	HARR_T3	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/20/2024 10:40	50107	HARR_T3	1	1	0	8	7.6	-0.4	0	0	0	0	0	0	0	0
10/20/2024 10:40	50202	HARR_T3	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
10/20/2024 10:40	50201	HARR_T3	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/20/2024 10:40	50103	HARR_T3	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/20/2024 10:41	54506	ENOL_T2	0	0	0	0	0	0	0.3	0.33	0	0	0	0	0	0
10/20/2024 10:41	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/20/2024 10:41	14601	SWHI_T1	0	0	0	0	0	0	-0.91	-0.9	0	0	0	0	0	0
10/20/2024 10:41	14603	SWHI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/20/2024 10:45	17804	GILB_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/20/2024 10:45	17805	GILB_T2	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0
10/20/2024 10:47	10705	CATA_T2	0	2	2	0	0.8	0.8	0	-0.03	0	0	0	0	0	0
10/20/2024 10:49	52001	LING_T1	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
10/20/2024 10:49	52003	LING_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
10/20/2024 10:50	64704	LITI_T1	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
10/20/2024 10:50	54001	SDLE_T1	5	5	0	0.78	0.9	0.12	0	0	0	0	0	0	0	0
10/20/2024 10:50	47101	MARL_T1	0	6	6	0	0	0	-0.26	-0.34	0	0	0	0	0	0
10/20/2024 10:52	15204	SFAR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/20/2024 10:52	67303	WYOM_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
10/20/2024 10:52	15203	SFAR_T2	4	4	0	0.58	0.65	0.07	-1.28	-1.28	0	0	0	0	0	0
10/20/2024 10:55	15405	WALL_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
10/20/2024 10:55	51603	DUKE_T1	2	2	0	0.5	0.3	-0.2	83.96	83.96	0	0	0	0	0	0
10/20/2024 10:55	15404	WALL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/20/2024 10:55	15402	WALL_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/20/2024 10:56	42903	MIDD_T2	2	3	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
10/20/2024 10:56	42902	MIDD_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
10/20/2024 10:57	13302	ORVI_T2	2	2	0	0.5	0.6	0.1	1.37	1.33	0	0	0	0	0	0
10/20/2024 11:02	42701	AUGU_T1	1	2	1	0.2	0.5	0.3	0	0	1	1	0	1200	1200	0
10/20/2024 11:32	47101	MARL_T1	0	0	0	0	0	0	-0.35	-0.32	0	0	0	0	0	0
10/20/2024 11:33	57001	WHHI_T2	0	0	0	0	0	0	-1.97	-2	0	1	1	0	900	900
10/20/2024 11:33	63305	GREE_T1	0	0	0	0	0	0	-2.51	-2.49	1	1	0	900	900	0
10/20/2024 11:34	65901	SAKR_T2	1	1	0	7.9	8.5	0.6	-0.35	-0.81	0	1	1	0	600	600
10/20/2024 11:34	65904	SAKR_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
10/20/2024 11:35	67601	WARW_T2	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
10/20/2024 11:35	67602	WARW_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
10/20/2024 11:37	40501	CRES_T2	8	10	2	0.31	0.33	0.02	0	0	0	0	0	0	0	0
10/20/2024 11:37	40502	CRES_T2	38	51	13	0.4	0.36	-0.04	-0.37	-0.37	0	0	0	0	0	0
10/20/2024 11:41	43101	SMIL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/20/2024 11:41	43103	SMIL_T2	1	2	1	1.1	0.65	-0.45	0	0	0	0	0	0	0	0
10/20/2024 11:41	43108	SMIL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/20/2024 11:41	43105	SMIL_T2	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0	0
10/20/2024 11:41	43102	SMIL_T2	6	5	-1	0.32	0.36	0.04	-0.87	-0.87	1	1	0	600	600	0
10/20/2024 11:41	43104	SMIL_T2	2	1	-1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
10/20/2024 11:42	67605	WARW_T1	36	36	0	0.61	0.7	0.09	0	0	0	0	0	0	0	0
10/20/2024 11:42	67603	WARW_T1	0	1	1	0	0.2	0.2	-0.04	-0.04	0	0	0	0	0	0
10/20/2024 11:54	55001	NEWP_T1	4	6	2	0.73	0.62	-0.11	-0.37	-0.38	0	0	0	0	0	0
10/20/2024 11:54	12801	MICK_T1	0	0	0	0	0	0	-0.33	-0.29	1	1	0	600	600	0
10/20/2024 11:54	60502	NMAN_T2	4	6	2	0.33	0.32	-0.01	-0.42	-0.38	0	0	0	0	0	0
10/20/2024 11:54	60504	NMAN_T2	3	3	0	0.63	1.03	0.4	0	0	0	0	0	0	0	0
10/20/2024 11:54	12803	MICK_T1	1	1	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
10/20/2024 11:54	48902	FOSP_T2	1	0	-1	0.1	0	-0.1	-0.28	-0.32	0	0	0	0	0	0
10/20/2024 11:54	55002	NEWP_T1	5	10	5	0.96	0.91	-0.05	0	0	0	0	0	0	0	0
10/20/2024 11:54	65702	RVIL_T2	0	0	0	0	0	0	-0.6	-0.55	0	0	0	0	0	0
10/20/2024 11:54	60501	NMAN_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
10/20/2024 12:03	66902	SHIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 12:03	66903	SHIL_T2	1	1	0	0.2	0.5	0.3	-0.92	-0.9	0	0	0	0	0	0
10/20/2024 12:03	66901	SHIL_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/20/2024 12:08	42601	TUSC_T1	0	0	0	0	0	0	-0.54	-0.54	2	2	0	1800	1800	0
10/20/2024 12:10	49803	UNIV_T1	2	2	0	3.1	3	-0.1	-1.11	-1.13	0	0	0	0	0	0
10/20/2024 12:10	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/20/2024 12:11	65703	RVIL_T1	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
10/20/2024 12:12	41902	REED_T1	0	0	0	0	0	0	0.67	0.72	0	0	0	0	0	0
10/20/2024 12:12	41903	REED_T1	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
10/20/2024 12:17	67401	WAKE_T2	0	0	0	0	0	0	-1.05	-1.09	0	0	0	0	0	0
10/20/2024 12:17	12304	LANA_T2	0	0	0	0	0	0	0.64	0.58	0	0	0	0	0	0
10/20/2024 12:18	57303	MOAL_T2	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
10/20/2024 12:18	51702	OBER_T1	3	3	0	2.3	2.37	0.07	-0.32	-0.33	0	0	0	0	0	0
10/20/2024 12:18	67001	STHI_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
10/20/2024 12:18	57304	MOAL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/20/2024 12:18	57301	MOAL_T2	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
10/20/2024 12:18	67002	STHI_T2	1	2	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
10/20/2024 12:20	44201	POIN_T1	51	136	85	0.15	0.2	0.05	-2.04	-2.07	1	1	0	1200	1200	0
10/20/2024 12:22	67002	STHI_T2	1	2	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
10/20/2024 12:22	67001	STHI_T2	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
10/20/2024 12:22	65503	MOJO_T2	2	0	-2	0.15	0	-0.15	-0.31	-0.32	0	0	0	0	0	0
10/20/2024 12:25	50501	MECH_T1	4	4	0	0.88	0.7	-0.18	0	0	0	0	0	0	0	0
10/20/2024 12:25	50502	MECH_T1	2	1	-1	2.55	1.2	-1.35	1473.28	1473.25	2	2	0	2100	2100	0
10/20/2024 12:25	13004	BRET_T2	0	0	0	0	0	0	-0.74	-0.73	1	1	0	600	600	0
10/20/2024 12:31	44301	BEAV_T2	18	31	13	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
10/20/2024 12:31	44302	BEAV_T2	4	3	-1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
10/20/2024 12:37	44801	EDAN_T2	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
10/20/2024 12:37	44802	EDAN_T2	0	0	0	0	0	0	-2.19	-2.15	0	0	0	0	0	0
10/20/2024 12:40	52002	LING_T2	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
10/20/2024 12:40	52004	LING_T2	6	7	1	2.9	2.57	-0.33	0.15	0.14	0	0	0	0	0	0
10/20/2024 12:40	52006	LING_T2	2	2	0	1.2	1.25	0.05	0	0	0	0	0	0	0	0
10/20/2024 12:42	44902	SCOT_T2	1	0	-1	2.7	0	-2.7	-0.85	-0.87	0	0	0	0	0	0
10/20/2024 12:42	44901	SCOT_T2	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
10/20/2024 12:43	29402	BELT_T1	4	11	7	2.58	1.04	-1.54	0	0	0	0	0	0	0	0
10/20/2024 12:43	44202	POIN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/20/2024 12:43	44203	POIN_T2	0	0	0	0	0	0	-0.19	-0.2	1	1	0	900	900	0
10/20/2024 12:44	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/20/2024 12:44	20403	ASHF_T2	6	6	0	0.47	0.4	-0.07	0.07	0.07	0	0	0	0	0	0
10/20/2024 12:44	64101	REFR_T1	3	3	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
10/20/2024 12:44	20401	ASHF_T2	3	4	1	0.17	0.23	0.06	0	0	0	0	0	0	0	0
10/20/2024 12:44	12704	MACU_T1	0	0	0	0	0	0	-1.71	-1.64	1	1	0	600	600	0
10/20/2024 12:45	56503	ROCK_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/20/2024 12:45	56504	ROCK_T2	1	3	2	0.3	0.43	0.13	-0.13	-0.15	0	0	0	0	0	0
10/20/2024 12:45	56501	ROCK_T2	7	7	0	0.8	0.73	-0.07	0	0	0	0	0	0	0	0
10/20/2024 12:48	11101	EGYP_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
10/20/2024 12:48	11102	EGYP_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
10/20/2024 12:52	62106	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/20/2024 12:52	62102	ELAN_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/20/2024 12:52	62104	ELAN_T1	0	0	0	0	0	0	0.61	0.65	1	1	0	1200	1200	0
10/20/2024 12:54	55002	NEWP_T1	9	10	1	0.92	0.73	-0.19	-0.2	-0.19	0	0	0	0	0	0
10/20/2024 12:54	55001	NEWP_T1	1	5	4	1.1	0.44	-0.66	0	0	0	0	0	0	0	0
10/20/2024 12:55	44505	HAMI_T2	1	1	0	0.2	0.2	0	0.25	0.27	0	0	0	0	0	0
10/20/2024 12:55	48302	ORWI_T2	2	2	0	1.25	1.3	0.05	-0.07	-0.09	0	0	0	0	0	0
10/20/2024 12:55	44502	HAMI_T2	1	1	0	3	3.1	0.1	0	0	0	0	0	0	0	0
10/20/2024 12:55	48303	ORWI_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
10/20/2024 12:58	63202	MGTN_T2	1	1	0	1	7	6	0	0	0	0	0	0	0	0
10/20/2024 12:58	63201	MGTN_T2	0	0	0	0	0	0	0.42	0.43	1	1	0	600	600	0
10/20/2024 13:06	63306	GREE_T1	0	0	0	0	0	0	-2.02	-2.06	1	1	0	900	900	0
10/20/2024 13:11	45901	AUBU_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/20/2024 13:11	45902	AUBU_T1	1	2	1	1.1	0.75	-0.35	0.01	0.01	1	1	0	600	600	0
10/20/2024 13:20	56803	BENV_T1	8	10	2	0.41	0.38	-0.03	0	0	0	0	0	0	0	0
10/20/2024 13:20	56801	BENV_T1	19	23	4	0.34	0.36	0.02	-0.15	-0.15	0	0	0	0	0	0
10/20/2024 13:30	46002	BERW_T2	0	1	1	0	0.1	0.1	-1.53	-1.55	1	1	0	900	900	0
10/20/2024 13:30	46004	BERW_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/20/2024 13:35	67702	WERN_T2	1	1	0	0.2	0.3	0.1	0	-0.02	0	0	0	0	0	0
10/20/2024 13:35	67703	WERN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/20/2024 13:35	45002	LIME_2	1	1	0	4.9	5.4	0.5	0.42	0.43	0	0	0	0	0	0
10/20/2024 13:35	45001	LIME_2	38	38	0	0.59	0.56	-0.03	0	0	0	0	0	0	0	0
10/20/2024 13:35	15203	SFAR_T2	4	9	5	0.5	0.4	-0.1	-1.24	-1.26	0	0	0	0	0	0
10/20/2024 13:35	45003	LIME_2	1	1	0	5.1	4.8	-0.3	0	0	0	0	0	0	0	0
10/20/2024 13:36	58705	ROSE_T2	5	5	0	1.66	1.76	0.1	0	0	0	0	0	0	0	0
10/20/2024 13:36	58706	ROSE_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
10/20/2024 13:36	58702	ROSE_T2	0	0	0	0	0	0	-1.46	-1.57	0	0	0	0	0	0
10/20/2024 13:37	53901	HALI_T2	2	3	1	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
10/20/2024 13:37	53903	HALI_T2	9	7	-2	0.74	0.87	0.13	0	0	0	0	0	0	0	0
10/20/2024 13:37	53902	HALI_T2	3	4	1	2.13	1.75	-0.38	0	0	0	0	0	0	0	0
10/20/2024 13:51	52002	LING_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
10/20/2024 13:51	52006	LING_T2	2	2	0	1.2	1.05	-0.15	0	0	0	0	0	0	0	0
10/20/2024 13:51	52004	LING_T2	6	6	0	2.93	2.88	-0.05	0.16	0.15	0	0	0	0	0	0
10/20/2024 13:52	57201	ROSS_T1	0	0	0	0	0	0	-0.83	-0.85	0	0	0	0	0	0
10/20/2024 13:52	57205	ROSS_T1	2	2	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
10/20/2024 13:53	42601	TUSC_T1	1	2	1	0.3	0.3	0	-0.75	-0.81	1	1	0	1200	1200	0
10/20/2024 13:54	44202	POIN_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
10/20/2024 13:54	44203	POIN_T2	0	0	0	0	0	0	-0.2	-0.22	1	1	0	900	900	0
10/20/2024 14:13	47001	HUGH_T2	84	85	1	0.61	0.61	0	0	0	0	0	0	0	0	0
10/20/2024 14:13	46301	ROHR_T1	3	5	2	2.07	1.9	-0.17	0.1	0.13	0	0	0	0	0	0
10/20/2024 14:13	46302	ROHR_T1	4	4	0	1.1	1.18	0.08	0	0	0	0	0	0	0	0
10/20/2024 14:17	13303	ORVI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/20/2024 14:17	13301	ORVI_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
10/20/2024 14:39	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/20/2024 14:39	66504	SMAN_T2	0	0	0	0	0	0	-0.9	-0.85	0	0	0	0	0	0
10/20/2024 14:44	65702	RVIL_T2	0	0	0	0	0	0	-1	-1	1	1	0	600	600	0
10/20/2024 14:47	44801	EDAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/20/2024 14:47	44802	EDAN_T2	0	0	0	0	0	0	-2.21	-2.2	0	0	0	0	0	0
10/20/2024 14:50	64101	REFR_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/20/2024 15:16	46801	HEPB_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
10/20/2024 15:21	14401	SSLA_T1	0	0	0	0	0	0	-1.24	-1.23	1	1	0	600	600	0
10/20/2024 15:22	13701	SCHN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 15:25	16301	ALPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 15:35	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 15:45	14201	EALL_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
10/20/2024 15:48	63801	HEMP_T1	0	6	6	0	0.22	0.22	-0.2	-0.33	0	0	0	0	0	0
10/20/2024 15:48	63804	HEMP_T1	1	4	3	5.9	1.38	-4.52	0	0	0	0	0	0	0	0
10/20/2024 15:48	63803	HEMP_T1	0	14	14	0	0.12	0.12	0	0	0	0	0	0	0	0
10/20/2024 15:53	53601	DALM_T2	1	1	0	1	0.9	-0.1	-0.13	-0.09	0	0	0	0	0	0
10/20/2024 16:17	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 16:17	65207	PRIN_T4	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
10/20/2024 16:17	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 16:37	51306	WIND_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
10/20/2024 16:52	24603	VARD_T2	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
10/20/2024 16:52	24602	VARD_T2	1	17	16	1	0.26	-0.74	0	0	0	0	0	0	0	0
10/20/2024 17:07	59402	RFLD_T2	0	0	0	0	0	0	-0.87	-0.83	1	1	0	450	450	0
10/20/2024 17:17	52001	LING_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
10/20/2024 17:24	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/20/2024 17:38	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 17:41	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 19:40	59402	RFLD_T2	0	0	0	0	0	0	-0.89	-0.9	1	1	0	450	450	0
10/20/2024 20:09	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
10/20/2024 20:12	64301	LINC_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/20/2024 20:14	63501	HEID_T8K1-2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
10/20/2024 20:14	14802	TREI_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
10/20/2024 20:14	20403	ASHF_T2	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
10/20/2024 20:14	43102	SMIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
10/20/2024 20:14	53501	EVIL_T2	0	1	1	0	0.4	0.4	-0.61	-0.6	0	0	0	0	0	0
10/20/2024 20:14	67505	WEWI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 20:14	12801	MICK_T1	0	0	0	0	0	0	-0.32	-0.35	1	1	0	600	600	0
10/20/2024 20:14	27501	WEIS_T1	0	0	0	0	0	0	-1.29	-1.27	1	1	0	1200	1200	0
10/20/2024 20:14	12803	MICK_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
10/20/2024 20:14	51503	SWAT_T1	2	2	0	1.9	2	0.1	-0.66	-0.65	0	0	0	0	0	0
10/20/2024 20:14	51502	SWAT_T1	170	320	150	0.22	0.39	0.17	0	0	0	0	0	0	0	0
10/20/2024 20:15	24702	FLND_T2	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
10/20/2024 20:15	24901	WHHA_T1	0	0	0	0	0	0	-0.79	-0.83	0	0	0	0	0	0
10/20/2024 20:15	24703	FLND_T2	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
10/20/2024 20:15	58401	MORO_T1	0	0	0	0	0	0	-1.27	-1.28	1	1	0	600	600	0
10/20/2024 20:16	42503	ALTA_T2	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
10/20/2024 20:16	13704	SCHN_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
10/20/2024 20:17	47001	HUGH_T2	314	431	117	0.55	0.72	0.17	0	0	1	1	0	900	900	0
10/20/2024 20:17	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/20/2024 20:17	13004	NBET_T2	0	0	0	0	0	0	-0.85	-0.86	1	1	0	600	600	0
10/20/2024 20:17	66903	SHIL_T2	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
10/20/2024 20:17	47002	HUGH_T2	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
10/20/2024 20:20	23502	GEOR_T1	0	0	0	0	0	0	-0.34	-0.42	0	0	0	0	0	0
10/20/2024 20:20	57301	MOAL_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
10/20/2024 20:20	45001	LIME_2	38	48	10	0.61	0.43	-0.18	0	0	0	0	0	0	0	0
10/20/2024 20:20	44802	EDAN_T2	0	0	0	0	0	0	-2.34	-2.35	0	0	0	0	0	0
10/20/2024 20:20	61306	EARL_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
10/20/2024 20:20	13301	ORVI_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
10/20/2024 20:20	45902	AUBU_T1	0	0	0	0	0	0	-0.05	-0.08	1	1	0	600	600	0
10/20/2024 20:20	54506	ENOL_T2	0	0	0	0	0	0	0.53	0.6	1	1	0	600	600	0
10/20/2024 20:20	57303	MOAL_T2	1	1	0	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
10/20/2024 20:20	45003	LIME_2	1	1	0	3.8	4	0.2	0.18	0.19	0	0	0	0	0	0
10/20/2024 20:20	46203	DANV_T2	0	0	0	0	0	0	-2.12	-2.14	0	0	0	0	0	0
10/20/2024 20:20	48302	ORWI_T2	2	2	0	0.75	1.1	0.35	-0.12	-0.12	0	0	0	0	0	0
10/20/2024 20:20	64704	LITI_T1	0	0	0	0	0	0	-0.23	-0.25	1	1	0	600	600	0
10/20/2024 20:20	29402	BELT_T1	1	1	0	8.9	9	0.1	0	0	0	0	0	0	0	0
10/20/2024 20:20	22903	HARW_T1	0	21	21	0	0.17	0.17	-0.1	-0.09	0	0	0	0	0	0
10/20/2024 20:20	45002	LIME_2	1	1	0	5	5.7	0.7	0	0	0	0	0	0	0	0
10/20/2024 20:20	22905	HARW_T1	15	9	-6	0.98	0.48	-0.5	0	0	0	0	0	0	0	0
10/20/2024 20:21	15203	SFAR_T2	0	0	0	0	0	0	-1.27	-1.3	0	0	0	0	0	0
10/20/2024 20:21	22101	EDEL_T2	0	0	0	0	0	0	0.44	0.44	1	1	0	1200	1200	0
10/20/2024 20:21	65207	PRIN_T4	12	16	4	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
10/20/2024 20:21	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 20:21	15405	WALL_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
10/20/2024 20:21	66201	SISP_T2	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
10/20/2024 20:21	46004	BERW_T2	1	0	-1	2.5	0	-2.5	0	0	0	0	0	0	0	0
10/20/2024 20:21	66505	SMAN_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
10/20/2024 20:21	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 20:21	66504	SMAN_T2	0	0	0	0	0	0	-1.04	-0.92	0	0	0	0	0	0
10/20/2024 20:21	46002	BERW_T2	0	0	0	0	0	0	-1.55	-1.57	1	1	0	900	900	0
10/20/2024 20:21	15406	WALL_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
10/20/2024 20:22	50107	HARR_T3	1	1	0	7.9	7	-0.9	0	0	0	0	0	0	0	0
10/20/2024 20:22	50105	HARR_T3	6	6	0	5.85	5.7	-0.15	0	0	0	0	0	0	0	0
10/20/2024 20:22	67601	WARW_T2	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
10/20/2024 20:22	67605	WARW_T1	14	14	0	0.46	0.58	0.12	0	0	0	0	0	0	0	0
10/20/2024 20:22	16301	ALPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 20:22	67001	STHI_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
10/20/2024 20:22	67602	WARW_T2	0	0	0	0	0	0	0.67	0.72	1	1	0	300	300	0
10/20/2024 20:22	67603	WARW_T1	0	0	0	0	0	0	-0.14	-0.11	0	0	0	0	0	0
10/20/2024 20:22	24603	VARD_T2	0	10	10	0	0.13	0.13	0	0	0	0	0	0	0	0
10/20/2024 20:22	50201	HARR_T3	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/20/2024 20:22	50103	HARR_T3	2	2	0	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
10/20/2024 20:22	47101	MARL_T1	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
10/20/2024 20:22	14401	SSLA_T1	0	0	0	0	0	0	-1.22	-1.26	1	1	0	600	600	0
10/20/2024 20:22	12304	LANA_T2	0	0	0	0	0	0	-0.7	-0.72	1	1	0	1200	1200	0
10/20/2024 20:22	50202	HARR_T3	1	1	0	0.1	0.1	0	-0.36	-0.37	0	0	0	0	0	0
10/20/2024 20:22	24602	VARD_T2	2	12	10	0.9	0.28	-0.62	0	0	0	0	0	0	0	0
10/20/2024 20:23	62101	ELAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/20/2024 20:23	44201	POIN_T1	236	362	126	0.31	0.33	0.02	-2.12	-2.14	1	1	0	1200	1200	0
10/20/2024 20:23	52004	LING_T2	2	2	0	6.15	6.15	0	0.11	0.11	0	0	0	0	0	0
10/20/2024 20:23	52002	LING_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
10/20/2024 20:23	62104	ELAN_T1	0	1	1	0	0.1	0.1	0.13	0.29	1	1	0	1200	1200	0
10/20/2024 20:23	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/20/2024 20:23	62105	ELAN_T1	2	5	3	0.1	0.1	0	0	0	0	0	0	0	0	0
10/20/2024 20:23	62106	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/20/2024 20:23	42601	TUSC_T1	0	0	0	0	0	0	-0.58	-0.63	2	2	0	1800	1800	0
10/20/2024 20:23	52006	LING_T2	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
10/20/2024 20:23	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 20:24	44802	EDAN_T2	0	0	0	0	0	0	-2.35	-2.33	0	0	0	0	0	0
10/20/2024 20:24	63201	MGTN_T2	0	0	0	0	0	0	0.26	0.25	1	1	0	600	600	0
10/20/2024 20:24	45002	LIME_2	1	1	0	5	5.7	0.7	0.39	0.39	0	0	0	0	0	0
10/20/2024 20:24	63202	MGTN_T2	2	1	-1	1.55	0	-1.55	0	0	0	0	0	0	0	0
10/20/2024 20:24	44801	EDAN_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
10/20/2024 20:24	45001	LIME_2	38	48	10	0.61	0.43	-0.18	0	0	0	0	0	0	0	0
10/20/2024 20:24	65901	SAKR_T2	1	1	0	8.5	8.7	0.2	-1.11	-1.11	1	1	0	600	600	0
10/20/2024 20:24	49803	UNIV_T1	1	1	0	5.3	5.1	-0.2	-1.23	-1.23	0	0	0	0	0	0
10/20/2024 20:24	10801	CHHI_T1	0	70	70	0	0.17	0.17	-2.1	-2.15	3	3	0	2100	2100	0
10/20/2024 20:24	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 20:24	15203	SFAR_T2	0	0	0	0	0	0	-1.27	-1.3	0	0	0	0	0	0
10/20/2024 20:24	45003	LIME_2	1	1	0	3.8	4	0.2	0	0	0	0	0	0	0	0
10/20/2024 20:25	43103	SMIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
10/20/2024 20:25	14601	SWHI_T1	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
10/20/2024 20:25	67103	SPRI_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
10/20/2024 20:25	57001	WHHI_T2	0	0	0	0	0	0	-3.42	-3.45	1	1	0	900	900	0
10/20/2024 20:25	43102	SMIL_T2	0	3	3	0	0.2	0.2	-0.93	-0.94	1	1	0	600	600	0
10/20/2024 20:25	63305	GREE_T1	3	0	-3	0.1	0	-0.1	-1.57	-1.6	0	0	0	0	0	0
10/20/2024 20:25	45801	HEGI_T1	0	0	0	0	0	0	-0.45	-0.45	1	1	0	900	900	0
10/20/2024 20:25	52004	LING_T2	2	2	0	6.15	6.15	0	0.11	0.11	0	0	0	0	0	0
10/20/2024 20:25	65703	RVIL_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
10/20/2024 20:25	63804	HEMP_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
10/20/2024 20:25	10705	CATA_T2	0	0	0	0	0	0	-1	-0.98	1	1	0	900	900	0
10/20/2024 20:25	63801	HEMP_T1	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
10/20/2024 20:25	46302	ROHR_T1	2	2	0	0.65	1.2	0.55	0	0	0	0	0	0	0	0
10/20/2024 20:25	53601	DALM_T2	1	1	0	0.5	1	0.5	-0.22	-0.19	0	0	0	0	0	0
10/20/2024 20:25	52006	LING_T2	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
10/20/2024 20:25	46301	ROHR_T1	1	1	0	4.2	4.8	0.6	0.11	0.1	0	0	0	0	0	0
10/20/2024 20:25	57003	WHHI_T2	3	4	1	0.37	0.47	0.1	0	0	0	0	0	0	0	0
10/20/2024 20:25	52002	LING_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
10/20/2024 20:25	13302	ORVI_T2	0	0	0	0	0	0	1.33	1.28	0	0	0	0	0	0
10/20/2024 20:25	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 20:26	55002	NEWP_T1	2	5	3	0.15	0.36	0.21	0	0	0	0	0	0	0	0
10/20/2024 20:26	65702	RVIL_T2	0	0	0	0	0	0	-1.08	-1.11	1	1	0	600	600	0
10/20/2024 20:26	12704	MACU_T1	0	0	0	0	0	0	-1.67	-1.68	1	1	0	600	600	0
10/20/2024 20:26	48902	FOSP_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
10/20/2024 20:26	64602	LEOL_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
10/20/2024 20:26	44203	POIN_T2	0	0	0	0	0	0	-0.39	-0.4	1	1	0	900	900	0
10/20/2024 20:26	55001	NEWP_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
10/20/2024 20:26	57702	PAXT_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
10/20/2024 20:26	67001	STHI_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
10/20/2024 20:27	67303	WYOM_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
10/20/2024 20:27	17805	GILB_T2	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
10/20/2024 20:27	63306	GREE_T1	0	0	0	0	0	0	-2.2	-2.2	1	1	0	900	900	0
10/20/2024 20:27	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/20/2024 20:27	40502	CRES_T2	6	25	19	0.18	0.34	0.16	-0.44	-0.45	0	0	0	0	0	0
10/20/2024 20:27	63305	GREE_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/20/2024 20:27	27101	GFLD_T2	0	0	0	0	0	0	0.74	0.72	0	0	0	0	0	0
10/20/2024 20:27	20403	ASHF_T2	0	0	0	0	0	0	0.1	0.06	0	0	0	0	0	0
10/20/2024 20:27	54506	ENOL_T2	0	0	0	0	0	0	0.6	0.5	1	1	0	600	600	0
10/20/2024 20:28	50501	MECH_T1	4	4	0	1.23	1.33	0.1	0	0	0	0	0	0	0	0
10/20/2024 20:28	42802	SELI_T1	0	0	0	0	0	0	-0.52	-0.58	0	0	0	0	0	0
10/20/2024 20:28	65702	RVIL_T2	0	0	0	0	0	0	-1.08	-1.11	1	1	0	600	600	0
10/20/2024 20:28	65503	MOJO_T2	0	0	0	0	0	0	-0.51	-0.48	0	0	0	0	0	0
10/20/2024 20:28	57201	ROSS_T1	0	0	0	0	0	0	-0.93	-1.01	0	0	0	0	0	0
10/20/2024 20:28	40502	CRES_T2	6	25	19	0.18	0.34	0.16	-0.44	-0.45	0	0	0	0	0	0
10/20/2024 20:28	52403	GRPA_T2	0	3	3	0	0.33	0.33	-0.2	-0.23	0	0	0	0	0	0
10/20/2024 20:28	50502	MECH_T1	1	1	0	1.3	1.4	0.1	1473.36	1473.53	2	2	0	2100	2100	0
10/20/2024 20:28	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/20/2024 20:28	60101	COCA_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
10/20/2024 20:28	14201	EALL_T1	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
10/20/2024 20:28	40501	CRES_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/20/2024 20:28	52402	GRPA_T2	2	3	1	0.2	0.53	0.33	0	0	0	0	0	0	0	0
10/20/2024 20:29	44902	SCOT_T2	0	0	0	0	0	0	-0.96	-0.92	0	0	0	0	0	0
10/20/2024 20:29	42902	MIDD_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
10/20/2024 20:29	51905	COPA_T1	0	0	0	0	0	0	0.7	0.66	0	0	0	0	0	0
10/20/2024 20:29	51904	COPA_T1	5	5	0	1.04	1.06	0.02	0	0	0	0	0	0	0	0
10/20/2024 20:29	55101	WERT_T1	0	0	0	0	0	0	-1.33	-1.36	1	1	0	600	600	0
10/20/2024 20:30	42701	AUGU_T1	1	1	0	0.8	0.5	-0.3	0	0	2	2	0	1800	1800	0
10/20/2024 20:30	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 20:30	55002	NEWP_T1	2	6	4	0.3	0.43	0.13	-0.28	-0.29	0	0	0	0	0	0
10/20/2024 20:30	46801	HEPB_T2	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
10/20/2024 20:30	67702	WERN_T2	0	0	0	0	0	0	-0.08	-0.05	0	0	0	0	0	0
10/20/2024 20:31	67401	WAKE_T2	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
10/20/2024 20:31	63801	HEMP_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/20/2024 20:31	42902	MIDD_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
10/20/2024 20:31	58706	ROSE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/20/2024 20:31	64603	LEOL_T1	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
10/20/2024 20:31	63804	HEMP_T1	1	4	3	5.3	1.35	-3.95	0	0	0	0	0	0	0	0
10/20/2024 20:31	64101	REFR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 20:31	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/20/2024 20:31	41902	REED_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
10/20/2024 20:31	52001	LING_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
10/20/2024 20:31	58705	ROSE_T2	5	5	0	2.28	2.02	-0.26	0	0	0	0	0	0	0	0
10/20/2024 20:31	58702	ROSE_T2	0	0	0	0	0	0	-1.69	-0.38	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/20/2024 20:31	63802	HEMP_T1	0	0	0	0	0	0	-0.82	-0.76	0	0	0	0	0	0
10/20/2024 20:32	20403	ASHF_T2	0	0	0	0	0	0	0.1	0.06	0	0	0	0	0	0
10/20/2024 20:32	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/20/2024 20:32	13701	SCHN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 20:32	52001	LING_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
10/20/2024 20:33	52002	LING_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
10/20/2024 20:33	52006	LING_T2	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
10/20/2024 20:33	54001	SDLE_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
10/20/2024 20:33	52004	LING_T2	2	2	0	6.15	6.35	0.2	0.11	0.11	0	0	0	0	0	0
10/20/2024 20:34	41903	REED_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
10/20/2024 20:35	47101	MARL_T1	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
10/20/2024 20:35	51804	EBEN_T2	3	3	0	0.53	0.63	0.1	0	0	0	0	0	0	0	0
10/20/2024 20:36	47101	MARL_T1	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
10/20/2024 20:36	51303	WIND_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/20/2024 20:36	44203	POIN_T2	0	0	0	0	0	0	-0.4	-0.4	1	1	0	900	900	0
10/20/2024 20:37	51702	OBER_T1	2	2	0	2.8	3.15	0.35	-0.33	-0.35	0	0	0	0	0	0
10/20/2024 20:38	53902	HALI_T2	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
10/20/2024 20:38	53901	HALI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/20/2024 20:38	56504	ROCK_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
10/20/2024 20:38	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2024 20:38	53903	HALI_T2	2	3	1	1.75	1.17	-0.58	0	0	0	0	0	0	0	0
10/20/2024 20:38	56501	ROCK_T2	188	345	157	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/20/2024 20:40	60502	NMAN_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
10/20/2024 20:42	55105	WERT_T1	0	0	0	0	0	0	-0.73	-0.75	1	1	0	900	900	0
10/20/2024 20:46	44505	HAMI_T2	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
10/20/2024 20:46	44502	HAMI_T2	1	1	0	3.9	4.2	0.3	0	0	0	0	0	0	0	0
10/20/2024 20:47	51302	WIND_T2	0	24	24	0	0.12	0.12	0	0	0	0	0	0	0	0
10/20/2024 20:47	51306	WIND_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
10/20/2024 21:00	51603	DUKE_T1	0	1	1	0	0.1	0.1	83.96	83.96	0	0	0	0	0	0
10/20/2024 23:33	62605	ENGL_T1	0	0	0	0	0	0	-0.91	-0.95	0	0	0	0	0	0
10/21/2024 8:07	26704	HEML_T2	0	0	0	0	0	0	-0.87	-0.82	1	1	0	1200	1200	0
10/21/2024 8:08	63804	HEMP_T1	1	1	0	5.4	5.7	0.3	0.73	0.8	0	0	0	0	0	0
10/21/2024 8:19	57203	ROSS_T1	0	0	0	0	0	0	-0.38	-0.36	0	0	0	0	0	0
10/21/2024 8:24	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/21/2024 8:24	11603	CEAL_T1	1	0	-1	4.4	0	-4.4	0	0	0	0	0	0	0	0
10/21/2024 8:34	67502	WEWI_T2	0	0	0	0	0	0	-0.28	-0.33	0	0	0	0	0	0
10/21/2024 8:34	67503	WEWI_T2	1	1	0	7.9	8.8	0.9	0	0	0	0	0	0	0	0
10/21/2024 8:34	52502	PROG_T2	0	0	0	0	0	0	-0.67	0.31	1	0	-1	900	0	-900
10/21/2024 8:35	63601	LETO_T1	4	4	0	0.28	0.8	0.52	0.52	0.44	1	1	0	900	900	0
10/21/2024 8:38	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/21/2024 8:39	45501	DERR_T2	0	0	0	0	0	0	0.83	0.83	2	2	0	1800	1800	0
10/21/2024 8:41	45501	DERR_T2	0	0	0	0	0	0	0.83	0.83	2	2	0	1800	1800	0
10/21/2024 8:41	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 8:41	40802	EXCH_T2	0	1	1	0	0.5	0.5	-0.41	-0.38	0	0	0	0	0	0
10/21/2024 8:42	40801	EXCH_T2	0	1	1	0	0.1	0.1	-0.64	-0.6	1	1	0	1200	1200	0
10/21/2024 8:42	44801	EDAN_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
10/21/2024 8:42	40802	EXCH_T2	0	1	1	0	0.5	0.5	-0.41	-0.38	0	0	0	0	0	0
10/21/2024 8:46	25402	LAHA_T2	0	0	0	0	0	0	-0.82	-0.8	0	0	0	0	0	0
10/21/2024 8:47	20603	GRWO_T2	0	1	1	0	0	0	-0.71	-0.7	1	1	0	900	900	0
10/21/2024 8:50	43801	SWIL_T1	1	2	1	4.8	2.45	-2.35	0	0	0	0	0	0	0	0
10/21/2024 8:50	14801	TREI_T2	0	3	3	0	0.3	0.3	0.32	0.3	0	0	0	0	0	0
10/21/2024 8:50	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/21/2024 8:50	13303	ORVI_T1	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
10/21/2024 8:50	14802	TREI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/21/2024 8:50	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 8:53	67201	TEHI_T1	0	0	0	0	0	0	0.9	0.9	1	1	0	900	900	0
10/21/2024 8:58	63501	HEID_TBK1-2	40	2	-38	0.64	1.1	0.46	0.63	0.6	0	0	0	0	0	0
10/21/2024 9:00	63501	HEID_TBK1-2	2	2	0	1.1	1.05	-0.05	0.63	0.6	0	0	0	0	0	0
10/21/2024 9:02	63501	HEID_TBK1-2	2	2	0	1.1	1.05	-0.05	0.63	0.6	0	0	0	0	0	0
10/21/2024 9:04	64801	MONE_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/21/2024 9:04	64802	MONE_T2	0	1	1	0	0	0	0.26	0.25	0	0	0	0	0	0
10/21/2024 9:05	13303	ORVI_T1	0	0	0	0	0	0	0.82	0.78	0	0	0	0	0	0
10/21/2024 9:08	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 9:08	13303	ORVI_T1	0	0	0	0	0	0	0.78	0.86	0	0	0	0	0	0
10/21/2024 9:09	57002	WHHI_T2	0	0	0	0	0	0	-1.65	-1.67	1	1	0	1200	1200	0
10/21/2024 9:11	42102	FRAI_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/21/2024 9:12	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 9:15	46803	HEPB_T2	3	2	-1	0.17	0.25	0.08	0.29	0.26	0	0	0	0	0	0
10/21/2024 9:15	46801	HEPB_T2	3	5	2	0.83	0.46	-0.37	0	0	0	0	0	0	0	0
10/21/2024 9:16	20603	GRWO_T2	0	0	0	0	0	0	-0.71	-0.69	1	1	0	900	900	0
10/21/2024 9:19	47802	MOCA_T2	0	0	0	0	0	0	-0.89	-0.81	0	0	0	0	0	0
10/21/2024 9:19	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 9:22	67103	SPRI_T1	0	0	0	0	0	0	0.48	0.52	0	0	0	0	0	0
10/21/2024 9:22	43801	WATS_T2	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/21/2024 9:22	67603	WARW_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
10/21/2024 9:22	67605	WARW_T1	39	27	-12	0.48	0.46	-0.02	0	0	0	0	0	0	0	0
10/21/2024 9:22	43304	WATS_T2	0	0	0	0	0	0	0.15	0.06	1	1	0	600	600	0
10/21/2024 9:23	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/21/2024 9:27	45501	DERR_T2	0	0	0	0	0	0	0.93	0.91	2	2	0	1800	1800	0
10/21/2024 9:28	54506	ENOL_T2	0	0	0	0	0	0	0.4	0.39	1	1	0	600	600	0
10/21/2024 9:28	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
10/21/2024 9:28	54502	ENOL_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
10/21/2024 9:32	65603	QVIL_T2	0	0	0	0	0	0	0.5	0.62	0	0	0	0	0	0
10/21/2024 9:33	17002	RIRO_T2	0	3	3	0	0.37	0.37	0.58	0.58	0	0	0	0	0	0
10/21/2024 9:36	57403	SPAN_T1	0	27	27	0	0.26	0.26	-0.06	-0.01	0	0	0	0	0	0
10/21/2024 9:36	57401	SPAN_T1	2	2	0	0.65	1.4	0.75	0	0	0	0	0	0	0	0
10/21/2024 9:38	57401	SPAN_T1	2	2	0	0.65	1.4	0.75	0	0	0	0	0	0	0	0
10/21/2024 9:38	57403	SPAN_T1	0	27	27	0	0.26	0.26	0	0	0	0	0	0	0	0
10/21/2024 9:38	67605	WARW_T1	23	32	9	0.46	0.48	0.02	0	0	0	0	0	0	0	0
10/21/2024 9:38	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 9:39	57401	SPAN_T1	2	2	0	0.65	1.4	0.75	0	0	0	0	0	0	0	0
10/21/2024 9:39	57403	SPAN_T1	0	27	27	0	0.26	0.26	-0.01	-0.03	0	0	0	0	0	0
10/21/2024 9:45	63501	HEID_TBK1-2	1	1	0	1	1.4	0.4	0.61	0.6	0	0	0	0	0	0
10/21/2024 9:49	50501	MECH_T1	4	5	1	0.93	1.14	0.21	-0.11	0.47	0	0	0	0	0	0
10/21/2024 9:49	50504	MECH_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
10/21/2024 9:49	63501	HEID_TBK1-2	1	1	0	1	1.4	0.4	0.61	0.6	0	0	0	0	0	0
10/21/2024 9:49	50502	MECH_T1	1	1	0	1.7	2.3	0.6	0	0	0	0	0	0	0	0
10/21/2024 9:49	50506	MECH_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/21/2024 9:49	50505	MECH_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/21/2024 9:51	13704	SCHN_T2	0	0	0	0	0	0	-0.39	-0.34	0	0	0	0	0	0
10/21/2024 9:53	61701	ELIZ_T1	2	2	0	2.85	3.3	0.45	0.17	0.23	0	0	0	0	0	0
10/21/2024 9:53	61703	ELIZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 9:55	45501	DERR_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
10/21/2024 9:55	45502	DERR_T2	0	0	0	0	0	0	0.19	0.22	1	1	0	300	300	0
10/21/2024 9:56	10805	CHHI_T2	1	2	1	7.6	3.75	-3.85	-1.34	-1.09	1	1	0	1200	1200	0
10/21/2024 9:56	66703	STRA_T1	0	0	0	0	0	0	-0.18	-0.14	0	0	0	0	0	0
10/21/2024 9:56	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 9:57	50103	HARR_T3	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
10/21/2024 9:57	50105	HARR_T3	6	6	0	6.58	6.18	-0.4	0	0	0	0	0	0	0	0
10/21/2024 9:57	50107	HARR_T3	1	2	1	8.2	7.6	-0.6	0	0	0	0	0	0	0	0
10/21/2024 10:00	57403	SPAN_T1	27	41	14	0.26	0.28	0.02	-0.03	-0.05	0	0	0	0	0	0
10/21/2024 10:00	67103	SPRI_T1	0	0	0	0	0	0	0.54	0.5	0	0	0	0	0	0
10/21/2024 10:00	67503	WEWI_T2	1	1	0	8.4	8.7	0.3	-0.27	-0.26	0	0	0	0	0	0
10/21/2024 10:00	13303	ORVI_T1	0	0	0	0	0	0	1.7	1.85	0	0	0	0	0	0
10/21/2024 10:00	57401	SPAN_T1	2	2	0	1.4	1.4	0	0	0	0	0	0	0	0	0
10/21/2024 10:00	66703	STRA_T1	0	0	0	0	0	0	-0.18	-0.14	0	0	0	0	0	0
10/21/2024 10:00	67502	WEWI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
10/21/2024 10:00	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 10:00	57201	ROSS_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 10:00	57205	ROSS_T1	1	3	2	0.1	0.43	0.33	0	0	0	0	0	0	0	0
10/21/2024 10:00	17002	RIRO_T2	3	6	3	0.37	0.35	-0.02	0.56	0.58	0	0	0	0	0	0
10/21/2024 10:00	57203	ROSS_T1	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
10/21/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.34	0.3	0	0	0	0	0	0
10/21/2024 10:04	57403	SPAN_T1	27	41	14	0.26	0.28	0.02	-0.03	-0.05	0	0	0	0	0	0
10/21/2024 10:04	57401	SPAN_T1	2	2	0	1.4	1.4	0	0	0	0	0	0	0	0	0
10/21/2024 10:05	61703	ELIZ_T1	1	3	2	0.1	0.17	0.07	-5.25	-5.2	4	4	0	4200	4200	0
10/21/2024 10:05	61701	ELIZ_T1	2	2	0	3.1	3.4	0.3	0	0	0	0	0	0	0	0
10/21/2024 10:05	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/21/2024 10:05	44301	BEAV_T2	0	0	0	0	0	0	-0.12	-0.05	2	2	0	1500	1500	0
10/21/2024 10:06	61801	ELIJ_T2	0	2	2	0	0.25	0.25	-0.9	-0.86	1	1	0	600	600	0
10/21/2024 10:06	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 10:07	13503	MCMI_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
10/21/2024 10:07	46001	BERW_T1	0	0	0	0	0	0	0.76	0.86	0	0	0	0	0	0
10/21/2024 10:07	61701	ELIZ_T1	2	2	0	3.1	3.4	0.3	0	0	0	0	0	0	0	0
10/21/2024 10:07	61703	ELIZ_T1	1	3	2	0.1	0.17	0.07	-2.6	-2.64	2	2	0	2100	2100	0
10/21/2024 10:08	14801	TREI_T2	4	5	1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
10/21/2024 10:08	57205	ROSS_T1	1	3	2	0.1	0.43	0.33	0	0	0	0	0	0	0	0
10/21/2024 10:08	14802	TREI_T2	3	4	1	0.17	0.23	0.06	0.4	0.41	0	0	0	0	0	0
10/21/2024 10:08	57201	ROSS_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 10:08	57203	ROSS_T1	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
10/21/2024 10:09	57401	SPAN_T1	2	2	0	1.4	1.4	0	0	0	0	0	0	0	0	0
10/21/2024 10:09	61703	ELIZ_T1	1	3	2	0.1	0.17	0.07	-2.6	-2.64	2	2	0	2100	2100	0
10/21/2024 10:09	14802	TREI_T2	3	4	1	0.17	0.23	0.06	0.4	0.41	0	0	0	0	0	0
10/21/2024 10:09	57403	SPAN_T1	27	41	14	0.26	0.28	0.02	0	0	0	0	0	0	0	0
10/21/2024 10:09	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 10:09	14801	TREI_T2	4	5	1	0.23	0.3	0.07	0.27	0.3	0	0	0	0	0	0
10/21/2024 10:09	13503	MCMI_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
10/21/2024 10:09	61701	ELIZ_T1	2	2	0	3.1	3.4	0.3	0.23	0.18	0	0	0	0	0	0
10/21/2024 10:09	43801	SWIL_T1	1	1	0	5.3	5.7	0.4	0	0	0	0	0	0	0	0
10/21/2024 10:10	46001	BERW_T1	0	0	0	0	0	0	0.76	0.86	0	0	0	0	0	0
10/21/2024 10:10	45501	DERR_T2	2	1	-1	0.75	1.4	0.65	0.95	0.94	2	2	0	1800	1800	0
10/21/2024 10:11	40802	EXCH_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
10/21/2024 10:11	40801	EXCH_T2	1	1	0	0.1	0.3	0.2	-0.55	-0.58	1	1	0	1200	1200	0
10/21/2024 10:11	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 10:12	45502	DERR_T2	0	0	0	0	0	0	0.22	0.23	1	1	0	300	300	0
10/21/2024 10:12	45501	DERR_T2	2	1	-1	0.75	1.4	0.65	0	0	0	0	0	0	0	0
10/21/2024 10:13	46001	BERW_T1	0	0	0	0	0	0	0.76	0.86	0	0	0	0	0	0
10/21/2024 10:13	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 10:13	26704	HEML_T2	0	15	15	0	0.11	0.11	-0.76	-0.79	1	1	0	1200	1200	0
10/21/2024 10:13	26702	HEML_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 10:15	63501	HEID_TBK1-2	1	4	3	1.4	0.68	-0.72	0.57	0.64	0	0	0	0	0	0
10/21/2024 10:16	59301	MCAL_T1	2	2	0	0.95	0.2	-0.75	-1.61	-1.61	1	1	0	600	600	0
10/21/2024 10:16	25402	LAHA_T2	0	0	0	0	0	0	-0.57	-0.55	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/21/2024 10:17	63501	HEID_T8K1-2	1	4	3	1.4	0.68	-0.72	0.57	0.64	0	0	0	0	0	0
10/21/2024 10:19	66501	SMAN_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
10/21/2024 10:19	66502	SMAN_T2	2	4	2	0.25	0.3	0.05	0	0	0	0	0	0	0	0
10/21/2024 10:19	66504	SMAN_T2	0	1	1	0	0.3	0.3	-0.34	-0.39	0	0	0	0	0	0
10/21/2024 10:20	13303	ORVI_T1	0	0	0	0	0	0	0.92	0.93	0	0	0	0	0	0
10/21/2024 10:20	15703	TANN_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
10/21/2024 10:20	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
10/21/2024 10:21	66504	SMAN_T2	0	1	1	0	0.3	0.3	-0.78	-0.53	0	0	0	0	0	0
10/21/2024 10:21	66502	SMAN_T2	2	4	2	0.25	0.3	0.05	0	0	0	0	0	0	0	0
10/21/2024 10:21	66501	SMAN_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
10/21/2024 10:22	55002	NEWP_T1	2	2	0	1.2	1.15	-0.05	-0.23	-0.22	0	0	0	0	0	0
10/21/2024 10:22	66504	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/21/2024 10:22	13701	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 10:22	66502	SMAN_T2	2	4	2	0.25	0.3	0.05	0	0	0	0	0	0	0	0
10/21/2024 10:22	13704	SCHN_T2	0	1	1	0	0.1	0.1	-0.38	-0.34	0	0	0	0	0	0
10/21/2024 10:22	66501	SMAN_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
10/21/2024 10:24	55001	NEWP_T1	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
10/21/2024 10:24	55002	NEWP_T1	2	2	0	1.2	1.15	-0.05	0	0	0	0	0	0	0	0
10/21/2024 10:26	40802	EXCH_T2	1	1	0	0.5	0.8	0.3	-0.35	-0.41	0	0	0	0	0	0
10/21/2024 10:26	40801	EXCH_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/21/2024 10:27	40801	EXCH_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/21/2024 10:27	40802	EXCH_T2	1	1	0	0.5	0.8	0.3	-0.35	-0.41	0	0	0	0	0	0
10/21/2024 10:28	46004	BERW_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 10:28	45501	DERR_T2	1	1	0	1.3	1.6	0.3	0.94	0.98	2	2	0	1800	1800	0
10/21/2024 10:28	46002	BERW_T2	0	0	0	0	0	0	-0.65	-0.77	1	1	0	900	900	0
10/21/2024 10:34	66502	SMAN_T2	2	4	2	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
10/21/2024 10:34	66504	SMAN_T2	1	1	0	0.1	0.3	0.2	-0.39	-0.26	0	0	0	0	0	0
10/21/2024 10:34	66501	SMAN_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
10/21/2024 10:35	57201	ROSS_T1	3	28	25	0.1	0.21	0.11	0	0	0	0	0	0	0	0
10/21/2024 10:35	66501	SMAN_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
10/21/2024 10:35	66504	SMAN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/21/2024 10:35	57205	ROSS_T1	3	4	1	0.43	0.7	0.27	0	0	0	0	0	0	0	0
10/21/2024 10:35	57203	ROSS_T1	0	1	1	0	0.4	0.4	-0.39	0.32	0	0	0	0	0	0
10/21/2024 10:35	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.41	0	0	0	0	0	0
10/21/2024 10:35	66502	SMAN_T2	2	4	2	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
10/21/2024 10:36	57201	ROSS_T1	3	28	25	0.1	0.21	0.11	-0.68	-0.63	0	0	0	0	0	0
10/21/2024 10:36	57203	ROSS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/21/2024 10:36	57205	ROSS_T1	3	4	1	0.43	0.7	0.27	0	0	0	0	0	0	0	0
10/21/2024 10:37	66504	SMAN_T2	1	1	0	0.1	0.3	0.2	-0.26	-0.36	0	0	0	0	0	0
10/21/2024 10:37	20401	ASHF_T2	3	3	0	0.5	0.53	0.03	0	0	0	0	0	0	0	0
10/21/2024 10:37	20402	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/21/2024 10:37	66501	SMAN_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
10/21/2024 10:37	66502	SMAN_T2	2	4	2	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
10/21/2024 10:37	20403	ASHF_T2	3	9	6	0.27	0.4	0.13	1.17	1.18	0	0	0	0	0	0
10/21/2024 10:38	57203	ROSS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/21/2024 10:38	66501	SMAN_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
10/21/2024 10:38	67201	TEHI_T1	0	0	0	0	0	0	0.75	1.28	1	1	0	900	900	0
10/21/2024 10:38	66502	SMAN_T2	2	4	2	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
10/21/2024 10:38	57201	ROSS_T1	3	28	25	0.1	0.21	0.11	-0.63	-0.63	0	0	0	0	0	0
10/21/2024 10:38	57205	ROSS_T1	3	4	1	0.43	0.7	0.27	0	0	0	0	0	0	0	0
10/21/2024 10:38	66504	SMAN_T2	1	1	0	0.1	0.3	0.2	-0.26	-0.36	0	0	0	0	0	0
10/21/2024 10:40	20401	ASHF_T2	3	3	0	0.5	0.53	0.03	0	0	0	0	0	0	0	0
10/21/2024 10:40	20402	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/21/2024 10:40	10801	CHHI_T1	2	1	-1	0.3	0.3	0	-0.77	-0.6	1	1	0	900	900	0
10/21/2024 10:40	20403	ASHF_T2	3	9	6	0.27	0.4	0.13	1.17	1.18	0	0	0	0	0	0
10/21/2024 10:41	28102	TWLA_T2	14	16	2	0.36	0.43	0.07	0.19	0.19	0	0	0	0	0	0
10/21/2024 10:41	53501	EVIL_T2	2	2	0	0.8	0.6	-0.2	-0.23	-0.24	2	2	0	1200	1200	0
10/21/2024 10:42	53501	EVIL_T2	2	2	0	0.8	0.6	-0.2	-0.7	-0.73	6	6	0	3600	3600	0
10/21/2024 10:43	44801	EDAN_T2	1	1	0	0.6	0.7	0.1	-0.47	-0.44	0	0	0	0	0	0
10/21/2024 10:43	23203	HIRU_T2	3	10	7	0.1	0.16	0.06	0.33	0.33	0	0	0	0	0	0
10/21/2024 10:43	23201	HIRU_T2	38	52	14	0.16	0.16	0	0	0	0	0	0	0	0	0
10/21/2024 10:43	23202	HIRU_T2	3	8	5	0.1	0.19	0.09	0	0	0	0	0	0	0	0
10/21/2024 10:45	64303	LINC_T1	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
10/21/2024 10:46	53501	EVIL_T2	2	2	0	0.6	0.5	-0.1	-0.23	-0.24	2	2	0	1200	1200	0
10/21/2024 10:47	46801	HEPB_T2	3	3	0	1.03	1.03	0	0.52	0.54	0	0	0	0	0	0
10/21/2024 10:47	44703	MUNC_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/21/2024 10:47	23202	HIRU_T2	6	15	9	0.18	0.19	0.01	0	0	0	0	0	0	0	0
10/21/2024 10:47	23203	HIRU_T2	7	16	9	0.11	0.18	0.07	0.16	0.16	0	0	0	0	0	0
10/21/2024 10:47	23201	HIRU_T2	45	64	19	0.16	0.16	0	0	0	0	0	0	0	0	0
10/21/2024 10:47	53501	EVIL_T2	2	2	0	0.6	0.5	-0.1	-0.23	-0.24	2	2	0	1200	1200	0
10/21/2024 10:47	46803	HEPB_T2	4	5	1	0.2	0.26	0.06	0	0	0	0	0	0	0	0
10/21/2024 10:47	44701	MUNC_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/21/2024 10:51	15601	NSTR_T2	1	3	2	0.3	0.6	0.3	0	0	0	0	0	0	0	0
10/21/2024 10:51	54601	SUMM_T2	12	7	-5	0.48	0.2	-0.28	-2.97	-2.95	2	2	0	2100	2100	0
10/21/2024 10:51	66502	SMAN_T2	4	4	0	0.3	0.35	0.05	0.74	0.83	0	0	0	0	0	0
10/21/2024 10:51	15602	NSTR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 10:51	66504	SMAN_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/21/2024 10:51	54602	SUMM_T2	13	0	-13	0.32	0	-0.32	0	0	0	0	0	0	0	0
10/21/2024 10:51	15603	NSTR_T2	1	3	2	0.9	0.43	-0.47	-0.69	-0.68	0	0	0	0	0	0
10/21/2024 10:51	66501	SMAN_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
10/21/2024 10:52	66505	SMAN_T2	0	0	0	0	0	0	0.7	0.69	1	1	0	900	900	0
10/21/2024 10:52	66501	SMAN_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
10/21/2024 10:52	66502	SMAN_T2	4	4	0	0.3	0.35	0.05	0.74	0.83	0	0	0	0	0	0
10/21/2024 10:52	66504	SMAN_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/21/2024 10:53	54601	SUMM_T2	13	0	-13	0.32	0	-0.32	0	0	0	0	0	0	0	0
10/21/2024 10:53	54601	SUMM_T2	12	7	-5	0.48	0.2	-0.28	-2.95	-2.92	2	2	0	2100	2100	0
10/21/2024 10:54	66504	SMAN_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/21/2024 10:54	44302	BEAV_T2	2	4	2	0.25	0.35	0.1	0	0	0	0	0	0	0	0
10/21/2024 10:54	66501	SMAN_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
10/21/2024 10:54	44301	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 10:54	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 10:54	66502	SMAN_T2	4	4	0	0.3	0.35	0.05	1.12	1.24	0	0	0	0	0	0
10/21/2024 10:55	66502	SMAN_T2	4	4	0	0.3	0.35	0.05	0.74	0.83	0	0	0	0	0	0
10/21/2024 10:55	66504	SMAN_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/21/2024 10:55	66501	SMAN_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
10/21/2024 10:55	54601	SUMM_T2	12	7	-5	0.48	0.2	-0.28	-2.95	-2.92	2	2	0	2100	2100	0
10/21/2024 10:55	54602	SUMM_T2	13	0	-13	0.32	0	-0.32	0	0	0	0	0	0	0	0
10/21/2024 10:58	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	0.09	0	0	0	0	0	0	0
10/21/2024 10:58	54505	ENOL_T2	2	2	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
10/21/2024 10:58	54502	ENOL_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
10/21/2024 11:02	50505	MECH_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
10/21/2024 11:02	50502	MECH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
10/21/2024 11:02	50506	MECH_T1	2	1	-1	0.1	0.2	0.1	0.67	0.68	2	2	0	1800	1800	0
10/21/2024 11:02	50501	MECH_T1	4	4	0	1.1	1.25	0.15	0	0	0	0	0	0	0	0
10/21/2024 11:02	50504	MECH_T1	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
10/21/2024 11:03	50501	MECH_T1	4	4	0	1.1	1.25	0.15	0.26	0.28	0	0	0	0	0	0
10/21/2024 11:03	50505	MECH_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
10/21/2024 11:03	50506	MECH_T1	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/21/2024 11:03	50502	MECH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
10/21/2024 11:03	50504	MECH_T1	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
10/21/2024 11:04	50502	MECH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
10/21/2024 11:04	63804	HEMP_T1	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
10/21/2024 11:04	63803	HEMP_T1	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
10/21/2024 11:04	50501	MECH_T1	4	4	0	1.1	1.25	0.15	0	0	0	0	0	0	0	0
10/21/2024 11:04	50504	MECH_T1	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
10/21/2024 11:04	63801	HEMP_T1	1	3	2	0.3	0.33	0.03	1.12	0.18	0	0	0	0	0	0
10/21/2024 11:04	50505	MECH_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
10/21/2024 11:04	50506	MECH_T1	2	1	-1	0.1	0.2	0.1	0.33	0.34	1	1	0	900	900	0
10/21/2024 11:06	67001	STHI_T2	5	51	46	0.24	0.15	-0.09	0	0	0	0	0	0	0	0
10/21/2024 11:06	63803	HEMP_T1	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
10/21/2024 11:06	67002	STHI_T2	15	28	13	0.24	0.31	0.07	2.2	2.21	0	0	0	0	0	0
10/21/2024 11:06	63804	HEMP_T1	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
10/21/2024 11:06	43802	SWIL_T1	0	0	0	0	0	0	-0.24	-0.25	1	1	0	600	600	0
10/21/2024 11:06	63801	HEMP_T1	1	3	2	0.3	0.33	0.03	0.18	0.21	0	0	0	0	0	0
10/21/2024 11:06	20403	ASHF_T2	5	6	1	0.16	0.22	0.06	1.18	1.23	0	0	0	0	0	0
10/21/2024 11:06	20401	ASHF_T2	3	3	0	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
10/21/2024 11:06	43801	SWIL_T1	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
10/21/2024 11:07	57403	SPAN_T1	3	7	4	0.4	0.33	-0.07	0.01	-0.04	0	0	0	0	0	0
10/21/2024 11:07	24902	WHHA_T1	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
10/21/2024 11:07	24901	WHHA_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
10/21/2024 11:07	40603	PIGR_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
10/21/2024 11:07	57401	SPAN_T1	2	2	0	1.15	1.4	0.25	0	0	0	0	0	0	0	0
10/21/2024 11:07	40602	PIGR_T1	1	1	0	2.5	2.3	-0.2	0	0	0	0	0	0	0	0
10/21/2024 11:07	67001	STHI_T2	5	51	46	0.24	0.15	-0.09	0.06	0.07	0	0	0	0	0	0
10/21/2024 11:07	40601	PIGR_T1	3	8	5	0.27	0.33	0.06	0	0	0	0	0	0	0	0
10/21/2024 11:07	67002	STHI_T2	15	28	13	0.24	0.31	0.07	4.4	4.42	0	0	0	0	0	0
10/21/2024 11:08	67002	STHI_T2	15	28	13	0.24	0.31	0.07	0.73	0.74	0	0	0	0	0	0
10/21/2024 11:08	20401	ASHF_T2	3	3	0	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
10/21/2024 11:08	67001	STHI_T2	5	51	46	0.24	0.15	-0.09	0.18	0.21	0	0	0	0	0	0
10/21/2024 11:08	20403	ASHF_T2	5	6	1	0.16	0.22	0.06	1.23	1.14	0	0	0	0	0	0
10/21/2024 11:09	24901	WHHA_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
10/21/2024 11:09	15104	UPHA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 11:09	46002	BERW_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/21/2024 11:09	24902	WHHA_T1	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
10/21/2024 11:09	15103	UPHA_T2	1	2	1	0.3	0.45	0.15	0.4	0.39	0	0	0	0	0	0
10/21/2024 11:09	46004	BERW_T2	3	4	1	0.23	0.43	0.2	-0.32	-0.18	0	0	0	0	0	0
10/21/2024 11:12	15001	BLMO_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/21/2024 11:13	15001	BLMO_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/21/2024 11:15	64305	LINC_T1	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
10/21/2024 11:17	50502	MECH_T1	1	2	1	2.1	2.1	0	0	0	0	0	0	0	0	0
10/21/2024 11:17	50505	MECH_T1	1	1	0	0.8	0.5	-0.3	-0.88	-0.95	0	0	0	0	0	0
10/21/2024 11:17	50506	MECH_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/21/2024 11:17	50504	MECH_T1	3	2	-1	0.27	0.3	0.03	0	0	0	0	0	0	0	0
10/21/2024 11:17	50501	MECH_T1	4	4	0	1.25	0.58	-0.67	0.28	0.5	0	0	0	0	0	0
10/21/2024 11:18	50505	MECH_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/21/2024 11:18	28102	TWLA_T2	19	29	10	0.48	0.48	0	0.19	0.21	0	0	0	0	0	0
10/21/2024 11:18	50501	MECH_T1	4	4	0	1.25	0.58	-0.67	0	0	0	0	0	0	0	0
10/21/2024 11:18	50504	MECH_T1	3	2	-1	0.27	0.3	0.03	0	0	0	0	0	0	0	0
10/21/2024 11:18	50506	MECH_T1	1	1	0	0.2	0.1	-0.1	0.34	0.31	1	1	0	900	900	0
10/21/2024 11:18	50502	MECH_T1	1	2	1	2.1	2.1	0	0	0	0	0	0	0	0	0
10/21/2024 11:21	50502	MECH_T1	1	2	1	2.1	2.1	0	0	0	0	0	0	0	0	0
10/21/2024 11:21	50501	MECH_T1	4	4	0	1.25	0.58	-0.67	0	0	0	0	0	0	0	0
10/21/2024 11:21	15702	TANN_T2	0	1	1	0	0.2	0.2	-0.39	-0.43	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/21/2024 11:21	50504	MECH_T1	3	2	-1	0.27	0.3	0.03	0	0	0	0	0	0	0	0
10/21/2024 11:21	57401	SPAN_T1	2	2	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
10/21/2024 11:21	57403	SPAN_T1	7	7	0	0.33	0.33	0	0.01	-0.04	0	0	0	0	0	0
10/21/2024 11:21	50505	MECH_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/21/2024 11:21	15703	TANN_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
10/21/2024 11:21	50506	MECH_T1	1	1	0	0.2	0.1	-0.1	0.34	0.31	1	1	0	900	900	0
10/21/2024 11:23	57403	SPAN_T1	7	7	0	0.33	0.33	0	0	0	0	0	0	0	0	0
10/21/2024 11:23	57401	SPAN_T1	2	2	0	1.4	1.3	-0.1	0.18	0.18	0	0	0	0	0	0
10/21/2024 11:23	43301	WATS_T2	1	1	0	0.5	0.7	0.2	-0.87	-0.85	1	1	0	900	900	0
10/21/2024 11:24	57006	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/21/2024 11:24	15703	TANN_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
10/21/2024 11:24	60803	BUCK_T1	5	15	10	0.22	0.39	0.17	0	0	0	0	0	0	0	0
10/21/2024 11:24	60801	BUCK_T1	0	3	3	0	0.27	0.27	-0.05	-0.05	0	0	0	0	0	0
10/21/2024 11:24	15702	TANN_T2	0	1	1	0	0.2	0.2	-0.39	-0.43	0	0	0	0	0	0
10/21/2024 11:24	57003	WHHI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/21/2024 11:24	57005	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/21/2024 11:24	57001	WHHI_T2	0	0	0	0	0	0	-1.61	-1.65	1	1	0	900	900	0
10/21/2024 11:27	16102	BING_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
10/21/2024 11:27	16101	BING_T2	1	2	1	0.2	0.45	0.25	0.34	0.32	0	0	0	0	0	0
10/21/2024 11:30	64304	LINC_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/21/2024 11:30	64302	LINC_T2	0	0	0	0	0	0	1.1	1.17	0	0	0	0	0	0
10/21/2024 11:31	42903	MIDD_T2	2	3	1	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
10/21/2024 11:31	42902	MIDD_T2	7	17	10	0.37	0.41	0.04	-0.25	-0.41	0	0	0	0	0	0
10/21/2024 11:32	64902	MILL_T2	3	1	-2	0.6	0.6	0	-0.71	0.27	1	0	-1	900	0	-900
10/21/2024 11:32	65601	QVIL_T2	4	3	-1	0.43	0.33	-0.1	-1.15	-1.08	1	1	0	900	900	0
10/21/2024 11:32	65603	QVIL_T2	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
10/21/2024 11:32	64903	MILL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/21/2024 11:33	65603	QVIL_T2	0	1	1	0	1.2	1.2	0.55	0.65	0	0	0	0	0	0
10/21/2024 11:33	12604	MACA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/21/2024 11:33	12602	MACA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/21/2024 11:33	65601	QVIL_T2	4	3	-1	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
10/21/2024 11:33	42902	MIDD_T2	7	17	10	0.37	0.41	0.04	0	0	0	0	0	0	0	0
10/21/2024 11:33	12606	MACA_T1	0	0	0	0	0	0	0.77	0.76	0	0	0	0	0	0
10/21/2024 11:33	12601	MACA_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
10/21/2024 11:33	64904	MILL_T1	1	1	0	0.2	0.2	0	0.47	0.45	0	0	0	0	0	0
10/21/2024 11:33	64901	MILL_T1	9	4	-5	0.1	0.1	0	0	0	0	0	0	0	0	0
10/21/2024 11:33	42903	MIDD_T2	2	3	1	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
10/21/2024 11:34	42902	MIDD_T2	7	17	10	0.37	0.41	0.04	-0.5	-0.82	0	0	0	0	0	0
10/21/2024 11:34	64902	MILL_T2	3	1	-2	0.6	0.6	0	-1.42	0.54	2	0	-2	1800	0	-1800
10/21/2024 11:34	42903	MIDD_T2	2	3	1	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
10/21/2024 11:34	64903	MILL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/21/2024 11:35	65601	QVIL_T2	4	3	-1	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
10/21/2024 11:35	65603	QVIL_T2	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
10/21/2024 11:36	65603	QVIL_T2	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
10/21/2024 11:36	65601	QVIL_T2	4	3	-1	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
10/21/2024 11:37	67402	WAKE_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
10/21/2024 11:37	67401	WAKE_T2	5	4	-1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
10/21/2024 11:40	21204	ECAR_T2	1	1	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
10/21/2024 11:40	21206	ECAR_T2	1	1	0	7.8	7.4	-0.4	0	0	0	0	0	0	0	0
10/21/2024 11:41	67401	WAKE_T2	5	4	-1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
10/21/2024 11:41	67402	WAKE_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
10/21/2024 11:47	40902	JESH_T1	0	0	0	0	0	0	-1.01	-1.05	1	1	0	600	600	0
10/21/2024 11:47	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 11:47	40901	JESH_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/21/2024 11:48	41202	KENM_T2	1	1	0	1.1	1.3	0.2	-0.62	-0.61	0	0	0	0	0	0
10/21/2024 11:50	14404	SSLA_T1	6	6	0	0.4	0.35	-0.05	-0.01	0	0	0	0	0	0	0
10/21/2024 11:50	14401	SSLA_T1	3	4	1	0.47	0.6	0.13	0	0	0	0	0	0	0	0
10/21/2024 11:50	14802	TREI_T2	8	10	2	0.3	0.35	0.05	0.8	0.82	0	0	0	0	0	0
10/21/2024 11:50	14402	SSLA_T1	6	9	3	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
10/21/2024 11:50	14403	SSLA_T1	3	5	2	0.87	0.6	-0.27	0	0	0	0	0	0	0	0
10/21/2024 11:50	14801	TREI_T2	8	10	2	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
10/21/2024 11:51	14401	SSLA_T1	3	4	1	0.47	0.6	0.13	0	0	0	0	0	0	0	0
10/21/2024 11:51	40901	JESH_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/21/2024 11:51	14403	SSLA_T1	3	5	2	0.87	0.6	-0.27	0.52	0.54	0	0	0	0	0	0
10/21/2024 11:51	14404	SSLA_T1	6	6	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
10/21/2024 11:51	14402	SSLA_T1	6	9	3	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
10/21/2024 11:51	40902	JESH_T1	0	0	0	0	0	0	-1.05	-0.94	1	1	0	600	600	0
10/21/2024 11:53	14404	SSLA_T1	6	6	0	0.4	0.35	-0.05	0	-0.04	0	0	0	0	0	0
10/21/2024 11:53	43402	BENT_T1	2	2	0	0.45	0.65	0.2	-0.51	-0.55	1	1	0	600	600	0
10/21/2024 11:53	14401	SSLA_T1	3	4	1	0.47	0.6	0.13	0	0	0	0	0	0	0	0
10/21/2024 11:53	43401	BENT_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/21/2024 11:53	14403	SSLA_T1	3	5	2	0.87	0.6	-0.27	0	0	0	0	0	0	0	0
10/21/2024 11:53	14402	SSLA_T1	6	9	3	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
10/21/2024 11:54	14403	SSLA_T1	3	5	2	0.87	0.6	-0.27	0	0	0	0	0	0	0	0
10/21/2024 11:54	14401	SSLA_T1	3	4	1	0.47	0.6	0.13	-0.38	-0.43	0	0	0	0	0	0
10/21/2024 11:54	14402	SSLA_T1	6	9	3	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
10/21/2024 11:54	14404	SSLA_T1	6	6	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
10/21/2024 11:55	43401	BENT_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/21/2024 11:55	43402	BENT_T1	2	2	0	0.45	0.65	0.2	-0.51	-0.55	1	1	0	600	600	0
10/21/2024 11:55	67103	SPRI_T1	1	1	0	0.1	0.3	0.2	-0.09	-0.01	0	0	0	0	0	0
10/21/2024 11:56	10805	CHHI_T2	1	5	4	8.2	1.68	-6.52	-1.19	-1.31	1	1	0	1200	1200	0
10/21/2024 11:56	14802	TREI_T2	8	10	2	0.3	0.35	0.05	0.41	0.43	0	0	0	0	0	0
10/21/2024 11:56	14801	TREI_T2	8	10	2	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
10/21/2024 11:59	46801	HEPB_T2	3	5	2	1.03	0.68	-0.35	0.57	0.57	0	0	0	0	0	0
10/21/2024 11:59	46803	HEPB_T2	6	9	3	0.42	0.38	-0.04	0	0	0	0	0	0	0	0
10/21/2024 12:01	46803	HEPB_T2	6	9	3	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
10/21/2024 12:01	46801	HEPB_T2	5	5	0	0.68	0.66	-0.02	0.57	0.57	0	0	0	0	0	0
10/21/2024 12:02	46801	HEPB_T2	5	5	0	0.68	0.66	-0.02	0	0	0	0	0	0	0	0
10/21/2024 12:02	46803	HEPB_T2	6	9	3	0.43	0.37	-0.06	0.26	0.24	0	0	0	0	0	0
10/21/2024 12:03	64802	MONE_T2	10	6	-4	0.56	0.6	0.04	0.21	0.15	0	0	0	0	0	0
10/21/2024 12:03	64801	MONE_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/21/2024 12:04	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 12:04	43202	MVIL_T2	2	2	0	0.2	0.2	0	-0.63	-0.64	0	0	0	0	0	0
10/21/2024 12:04	43201	MVIL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/21/2024 12:06	14403	SSLA_T1	4	7	3	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
10/21/2024 12:06	43301	WATS_T2	1	1	0	0.8	0.8	0	-0.83	-0.83	1	1	0	900	900	0
10/21/2024 12:06	14401	SSLA_T1	1	5	4	1.3	0.54	-0.76	-0.43	-0.35	0	0	0	0	0	0
10/21/2024 12:06	14404	SSLA_T1	6	7	1	0.33	0.43	0.1	0	0	0	0	0	0	0	0
10/21/2024 12:06	14402	SSLA_T1	4	9	5	0.6	0.46	-0.14	0	0	0	0	0	0	0	0
10/21/2024 12:07	57005	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 12:07	57003	WHHI_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/21/2024 12:07	55101	WERT_T1	0	0	0	0	0	0	-1.09	-1.04	1	1	0	600	600	0
10/21/2024 12:07	57006	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 12:09	61001	DONV_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
10/21/2024 12:11	57205	ROSS_T1	3	3	0	0.83	0.93	0.1	0.33	0.32	0	0	0	0	0	0
10/21/2024 12:11	57201	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/21/2024 12:11	46002	BERW_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
10/21/2024 12:11	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 12:11	46004	BERW_T2	2	5	3	0.3	0.54	0.24	-0.08	-0.08	0	0	0	0	0	0
10/21/2024 12:11	55105	WERT_T1	0	0	0	0	0	0	-0.61	-0.63	1	1	0	900	900	0
10/21/2024 12:11	43301	WATS_T2	1	1	0	0.8	0.8	0	-0.83	-0.83	1	1	0	900	900	0
10/21/2024 12:13	46004	BERW_T2	2	5	3	0.3	0.54	0.24	-0.08	-0.08	0	0	0	0	0	0
10/21/2024 12:13	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 12:13	46002	BERW_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
10/21/2024 12:14	40801	EXCH_T2	1	4	3	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
10/21/2024 12:14	40802	EXCH_T2	0	2	2	0	0.15	0.15	-1.03	-1.3	0	0	0	0	0	0
10/21/2024 12:16	40802	EXCH_T2	1	2	1	0.2	0.15	-0.05	-0.51	-0.65	0	0	0	0	0	0
10/21/2024 12:16	40801	EXCH_T2	4	3	-1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
10/21/2024 12:21	49803	UNIV_T1	3	4	1	1.73	1.53	-0.2	-1.14	-1.15	0	0	0	0	0	0
10/21/2024 12:21	49804	UNIV_T1	2	1	-1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
10/21/2024 12:23	67603	WARW_T1	2	3	1	0.5	0.67	0.17	0	0	0	0	0	0	0	0
10/21/2024 12:23	67605	WARW_T1	26	45	19	0.67	0.6	-0.07	-1.02	-1.01	0	0	0	0	0	0
10/21/2024 12:25	49804	UNIV_T1	2	1	-1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
10/21/2024 12:25	67605	WARW_T1	26	45	19	0.67	0.6	-0.07	-1.02	-1.01	0	0	0	0	0	0
10/21/2024 12:25	67603	WARW_T1	2	3	1	0.5	0.67	0.17	0.04	0.02	0	0	0	0	0	0
10/21/2024 12:25	49803	UNIV_T1	3	4	1	1.73	1.53	-0.2	-1.14	-1.15	0	0	0	0	0	0
10/21/2024 12:26	67603	WARW_T1	2	3	1	0.5	0.67	0.17	0	0	0	0	0	0	0	0
10/21/2024 12:26	67605	WARW_T1	26	45	19	0.67	0.6	-0.07	-1.02	-1.01	0	0	0	0	0	0
10/21/2024 12:26	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/21/2024 12:26	67604	WARW_T1	0	0	0	0	0	0	0.63	0.72	0	0	0	0	0	0
10/21/2024 12:26	57106	SPHI_T2	3	4	1	0.57	0.63	0.06	0	0	0	0	0	0	0	0
10/21/2024 12:26	57101	SPHI_T2	5	5	0	0.92	1.2	0.28	0	0	0	0	0	0	0	0
10/21/2024 12:26	57104	SPHI_T2	2	1	-1	1.25	1.6	0.35	-0.11	-0.1	0	0	0	0	0	0
10/21/2024 12:27	48901	FOSP_T2	0	1	1	0	0.3	0.3	-0.13	-0.12	1	1	0	600	600	0
10/21/2024 12:27	48902	FOSP_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/21/2024 12:28	48901	FOSP_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/21/2024 12:28	67603	WARW_T1	2	3	1	0.5	0.67	0.17	0	0	0	0	0	0	0	0
10/21/2024 12:28	67604	WARW_T1	0	0	0	0	0	0	1.26	1.45	0	0	0	0	0	0
10/21/2024 12:28	48902	FOSP_T2	0	1	1	0	0.4	0.4	0.44	0.97	0	0	0	0	0	0
10/21/2024 12:28	67605	WARW_T1	26	45	19	0.67	0.6	-0.07	0	0	0	0	0	0	0	0
10/21/2024 12:30	48902	FOSP_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/21/2024 12:30	48901	FOSP_T2	0	1	1	0	0.3	0.3	-0.13	-0.12	1	1	0	600	600	0
10/21/2024 12:31	67605	WARW_T1	44	42	-2	0.61	0.54	-0.07	0	0	0	0	0	0	0	0
10/21/2024 12:31	48901	FOSP_T2	1	1	0	0.3	0.3	0	-0.13	-0.12	1	1	0	600	600	0
10/21/2024 12:31	47802	MOCA_T2	2	1	-1	0.55	0.5	-0.05	-0.95	-0.68	0	0	0	0	0	0
10/21/2024 12:31	48902	FOSP_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/21/2024 12:31	67603	WARW_T1	3	3	0	0.43	0.7	0.27	0	0	0	0	0	0	0	0
10/21/2024 12:31	65503	MOJO_T2	0	1	1	0	0.2	0.2	-0.81	-0.77	1	1	0	900	900	0
10/21/2024 12:33	47802	MOCA_T2	2	1	-1	0.55	0.5	-0.05	-0.95	-0.68	0	0	0	0	0	0
10/21/2024 12:33	48901	FOSP_T2	1	1	0	0.3	0.3	0	-0.13	-0.12	1	1	0	600	600	0
10/21/2024 12:33	48902	FOSP_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/21/2024 12:35	54206	PENN_T2	0	1	1	0	0.1	0.1	0.23	0.18	0	0	0	0	0	0
10/21/2024 12:35	54202	PENN_T2	2	2	0	0.3	0.55	0.25	0	0	0	0	0	0	0	0
10/21/2024 12:49	67502	WEWI_T2	8	9	1	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
10/21/2024 12:49	67503	WEWI_T2	1	1	0	9.2	9.1	-0.1	-0.25	-0.25	0	0	0	0	0	0
10/21/2024 12:52	67503	WEWI_T2	1	1	0	9.2	9.1	-0.1	0	0	0	0	0	0	0	0
10/21/2024 12:52	67502	WEWI_T2	8	9	1	0.36	0.33	-0.03	-0.22	-0.13	0	0	0	0	0	0
10/21/2024 12:53	64602	LEOL_T1	0	0	0	0	0	0	0.22	0.28	0	0	0	0	0	0
10/21/2024 12:53	45902	AUBU_T1	1	2	1	0.2	0.35	0.15	-0.08	-0.08	1	1	0	600	600	0
10/21/2024 12:54	54602	SUMM_T2	10	17	7	0.26	0.62	0.36	0	0	0	0	0	0	0	0
10/21/2024 12:54	54601	SUMM_T2	4	7	3	0.23	0.46	0.23	-3.06	-3.06	1	1	0	1200	1200	0
10/21/2024 12:54	45902	AUBU_T1	1	2	1	0.2	0.35	0.15	-0.08	-0.08	1	1	0	600	600	0
10/21/2024 12:57	51301	WIND_T1	2	7	5	0.3	0.41	0.11	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/21/2024 12:57	51305	WIND_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/21/2024 12:57	51303	WIND_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/21/2024 13:01	51303	WIND_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/21/2024 13:01	51305	WIND_T1	1	1	0	0.7	0.8	0.1	0.21	0.24	0	0	0	0	0	0
10/21/2024 13:01	51301	WIND_T1	6	6	0	0.28	0.43	0.15	0	0	0	0	0	0	0	0
10/21/2024 13:07	51301	WIND_T1	6	6	0	0.28	0.43	0.15	0	0	0	0	0	0	0	0
10/21/2024 13:07	51305	WIND_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/21/2024 13:07	51303	WIND_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/21/2024 13:09	24901	WHHA_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
10/21/2024 13:09	14204	EALL_T2	0	0	0	0	0	0	0.21	0.11	0	0	0	0	0	0
10/21/2024 13:09	24902	WHHA_T1	0	1	1	0	0	0	0.75	0.74	0	0	0	0	0	0
10/21/2024 13:14	20603	GRWO_T2	0	0	0	0	0	0	-0.62	-0.63	1	1	0	900	900	0
10/21/2024 13:16	46101	MACI_T2	1	1	0	0.1	0.1	0	-0.47	-0.64	2	2	0	2400	2400	0
10/21/2024 13:17	58401	MORO_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
10/21/2024 13:17	67502	WEWI_T2	9	10	1	0.33	0.42	0.09	-0.13	0.04	0	0	0	0	0	0
10/21/2024 13:17	50502	MECH_T1	1	2	1	2.5	1.35	-1.15	1474.48	1474.46	0	0	0	0	0	0
10/21/2024 13:17	67503	WEWI_T2	1	3	2	9.1	3.1	-6	0	0	0	0	0	0	0	0
10/21/2024 13:17	50501	MECH_T1	4	8	4	1.18	0.74	-0.44	0	0	0	0	0	0	0	0
10/21/2024 13:17	50504	MECH_T1	5	11	6	0.22	0.28	0.06	0	0	0	0	0	0	0	0
10/21/2024 13:17	50505	MECH_T1	1	2	1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
10/21/2024 13:17	58402	MORO_T1	0	2	2	0	0.3	0.3	-0.27	-0.24	2	2	0	1500	1500	0
10/21/2024 13:17	50506	MECH_T1	3	12	9	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
10/21/2024 13:17	50503	MECH_T1	5	8	3	0.14	0.16	0.02	0	0	0	0	0	0	0	0
10/21/2024 13:19	58401	MORO_T1	1	2	1	0.2	0.25	0.05	-0.72	-0.61	0	0	0	0	0	0
10/21/2024 13:19	58402	MORO_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/21/2024 13:21	58401	MORO_T1	1	2	1	0.2	0.25	0.05	-0.36	-0.3	0	0	0	0	0	0
10/21/2024 13:21	58402	MORO_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/21/2024 13:22	58402	MORO_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/21/2024 13:22	58401	MORO_T1	1	2	1	0.2	0.25	0.05	-0.3	-0.29	0	0	0	0	0	0
10/21/2024 13:23	57005	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/21/2024 13:23	57003	WHHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/21/2024 13:23	57004	WHHI_T2	0	0	0	0	0	0	-0.46	-0.52	0	0	0	0	0	0
10/21/2024 13:23	51302	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 13:23	57006	WHHI_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/21/2024 13:23	51304	WIND_T2	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
10/21/2024 13:23	51306	WIND_T2	3	6	3	0.2	0.27	0.07	0	0	0	0	0	0	0	0
10/21/2024 13:35	43201	MVIL_T2	1	1	0	0.7	0.3	-0.4	-0.35	-0.36	0	0	0	0	0	0
10/21/2024 13:35	43202	MVIL_T2	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/21/2024 13:38	55102	WERT_T2	0	0	0	0	0	0	-0.78	-0.76	2	2	0	1200	1200	0
10/21/2024 13:40	57003	WHHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/21/2024 13:40	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:40	57006	WHHI_T2	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
10/21/2024 13:40	57004	WHHI_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
10/21/2024 13:40	57005	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/21/2024 13:41	57005	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/21/2024 13:41	57004	WHHI_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
10/21/2024 13:41	57006	WHHI_T2	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	55105	WERT_T1	1	2	1	0.4	0.35	-0.05	-0.61	-0.67	1	1	0	900	900	0
10/21/2024 13:41	57003	WHHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/21/2024 13:44	63501	HEID_TBK1-2	4	4	0	0.58	0.7	0.12	0.78	0.72	0	0	0	0	0	0
10/21/2024 13:46	63501	HEID_TBK1-2	4	0	-4	0.7	0	-0.7	0.78	0.72	0	0	0	0	0	0
10/21/2024 13:47	63501	HEID_TBK1-2	4	0	-4	0.7	0	-0.7	0.78	0.72	0	0	0	0	0	0
10/21/2024 13:50	57403	SPAN_T1	18	4	-14	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
10/21/2024 13:50	57401	SPAN_T1	6	3	-3	1.6	2.93	1.33	0.32	-0.37	0	1	1	0	600	600
10/21/2024 13:52	43301	WATS_T2	2	2	0	0.45	0.6	0.15	-0.8	-0.8	1	1	0	900	900	0
10/21/2024 13:52	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 13:52	57401	SPAN_T1	6	3	-3	1.6	2.93	1.33	-1.1	-0.67	3	3	0	1800	1800	0
10/21/2024 13:52	57403	SPAN_T1	18	4	-14	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
10/21/2024 13:53	57401	SPAN_T1	6	3	-3	1.6	2.93	1.33	-0.37	-0.22	1	1	0	600	600	0
10/21/2024 13:53	57403	SPAN_T1	18	4	-14	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
10/21/2024 13:54	57401	SPAN_T1	6	3	-3	1.6	2.93	1.33	-0.37	-0.22	1	1	0	600	600	0
10/21/2024 13:54	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
10/21/2024 13:54	57403	SPAN_T1	18	4	-14	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
10/21/2024 13:54	15702	TANN_T2	0	2	2	0	0.1	0.1	-0.35	-0.31	0	0	0	0	0	0
10/21/2024 13:55	54601	SUMM_T2	11	13	2	0.55	0.59	0.04	-3.97	-3.98	2	2	0	2100	2100	0
10/21/2024 13:55	54602	SUMM_T2	17	17	0	0.55	0.86	0.31	0	0	0	0	0	0	0	0
10/21/2024 14:07	67401	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/21/2024 14:07	67402	WAKE_T2	0	0	0	0	0	0	0.46	0.43	1	1	0	600	600	0
10/21/2024 14:08	60701	BREC_T1	2	2	0	0.45	0.45	0	-0.24	-0.51	4	4	0	2400	2400	0
10/21/2024 14:09	60701	BREC_T1	2	2	0	0.45	0.45	0	-0.12	-0.26	2	2	0	1200	1200	0
10/21/2024 14:10	60701	BREC_T1	2	2	0	0.45	0.45	0	-0.12	-0.26	2	2	0	1200	1200	0
10/21/2024 14:10	63803	HEMP_T1	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
10/21/2024 14:10	63804	HEMP_T1	1	1	0	6.2	6.1	-0.1	1.03	1.06	0	0	0	0	0	0
10/21/2024 14:10	63801	HEMP_T1	1	2	1	1.1	0.65	-0.45	0	0	0	0	0	0	0	0
10/21/2024 14:11	60701	BREC_T1	2	2	0	0.45	0.45	0	-0.36	-0.77	6	6	0	3600	3600	0
10/21/2024 14:12	60701	BREC_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
10/21/2024 14:19	24204	PROV_T3	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
10/21/2024 14:19	24201	PROV_T3	1	1	0	6.6	6.8	0.2	0	0	1	1	0	1200	1200	0
10/21/2024 14:20	20401	ASHF_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/21/2024 14:20	20403	ASHF_T2	4	5	1	0.58	0.56	-0.02	1.16	1.07	0	0	0	0	0	0
10/21/2024 14:22	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 14:22	46203	DANV_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
10/21/2024 14:22	46205	DANV_T2	1	0	-1	0.2	0	-0.2	-0.61	-0.61	1	1	0	1200	1200	0
10/21/2024 14:30	24702	FLND_T2	0	1	1	0	0.1	0.1	0.48	0.67	1	1	0	1200	1200	0
10/21/2024 14:31	42001	MNVL_T2	220	218	-2	0.58	0.57	-0.01	-0.35	-0.36	0	0	0	0	0	0
10/21/2024 14:31	42002	MNVL_T2	1	1	0	7.2	7	-0.2	0	0	0	0	0	0	0	0
10/21/2024 14:34	65702	RVIL_T2	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
10/21/2024 14:39	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/21/2024 14:39	54501	ENOL_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
10/21/2024 14:39	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/21/2024 14:46	44505	HAMI_T2	0	0	0	0	0	0	0.6	0.62	0	0	0	0	0	0
10/21/2024 14:46	44502	HAMI_T2	1	1	0	3.9	3.8	-0.1	0	0	0	0	0	0	0	0
10/21/2024 14:50	47802	MOCA_T2	1	1	0	0.6	0.5	-0.1	-0.8	-0.83	0	0	0	0	0	0
10/21/2024 14:58	51301	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 15:01	45701	LIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/21/2024 15:01	45702	LIND_T2	6	29	23	0.55	0.27	-0.28	-0.58	-0.57	0	0	0	0	0	0
10/21/2024 15:04	45702	LIND_T2	6	29	23	0.55	0.27	-0.28	-0.58	-0.57	0	0	0	0	0	0
10/21/2024 15:04	45701	LIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/21/2024 15:09	46301	ROHR_T1	6	7	1	1.68	1.47	-0.21	0.2	0.19	0	0	0	0	0	0
10/21/2024 15:09	46302	ROHR_T1	6	4	-2	1.15	1.5	0.35	0	0	0	0	0	0	0	0
10/21/2024 15:17	64101	REFR_T1	5	4	-1	0.34	0.43	0.09	0	0	0	0	0	0	0	0
10/21/2024 15:18	64101	REFR_T1	5	4	-1	0.34	0.43	0.09	0	0	0	0	0	0	0	0
10/21/2024 15:29	64204	KINZ_T1	64	54	-10	0.38	0.29	-0.09	0	0	0	0	0	0	0	0
10/21/2024 15:29	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 15:29	64202	KINZ_T1	3	3	0	1.03	0.87	-0.16	0	0	0	0	0	0	0	0
10/21/2024 15:30	64201	KINZ_T1	0	0	0	0	0	0	-0.08	-0.16	3	3	0	1500	1500	0
10/21/2024 15:30	64202	KINZ_T1	3	3	0	0.87	0.43	-0.44	0	0	0	0	0	0	0	0
10/21/2024 15:30	64204	KINZ_T1	23	54	31	0.32	0.29	-0.03	0	0	0	0	0	0	0	0
10/21/2024 15:34	46101	MACI_T2	2	37	35	0.15	0.14	-0.01	-0.05	-0.09	1	1	0	1200	1200	0
10/21/2024 15:41	21206	ECAR_T2	1	1	0	8.2	8.2	0	1.26	1.15	0	0	0	0	0	0
10/21/2024 15:41	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 15:47	10801	CHHI_T1	0	1	1	0	0.1	0.1	-0.77	-0.82	1	1	0	900	900	0
10/21/2024 15:52	67201	TEHI_T1	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
10/21/2024 15:52	67203	TEHI_T1	0	0	0	0	0	0	2.32	2.28	2	2	0	1500	1500	0
10/21/2024 15:54	67201	TEHI_T1	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
10/21/2024 15:54	67203	TEHI_T1	0	0	0	0	0	0	2.32	2.28	2	2	0	1500	1500	0
10/21/2024 16:01	64204	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
10/21/2024 16:01	64202	KINZ_T1	2	3	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/21/2024 16:01	64201	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/21/2024 16:01	64203	KINZ_T1	0	0	0	0	0	0	0.67	0.47	1	1	0	600	600	0
10/21/2024 16:06	43202	MVIL_T2	1	1	0	0.4	0.3	-0.1	-0.61	-0.62	0	0	0	0	0	0
10/21/2024 16:11	10602	BLGL_T2	0	1	1	0	0.2	0.2	0.08	0.09	0	0	0	0	0	0
10/21/2024 16:13	60102	COCA_T1	0	0	0	0	0	0	-0.39	-0.36	2	2	0	1200	1200	0
10/21/2024 16:14	47203	FAXO_T2	1	0	-1	0.1	0	-0.1	0	0	1	1	0	1200	1200	0
10/21/2024 16:28	41502	FAIR_T2	0	0	0	0	0	0	-1.69	-1.69	1	1	0	900	900	0
10/21/2024 16:35	65205	PRIN_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
10/21/2024 16:37	65206	PRIN_T4	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 16:37	65207	PRIN_T4	5	9	4	0.26	0.19	-0.07	0	0	2	2	0	1800	1800	0
10/21/2024 16:38	43202	MVIL_T2	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
10/21/2024 16:39	43202	MVIL_T2	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
10/21/2024 16:42	40801	EXCH_T2	3	1	-2	0.27	0.2	-0.07	-0.78	-0.59	2	2	0	2400	2400	0
10/21/2024 16:42	40802	EXCH_T2	16	0	-16	0.13	0	-0.13	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/21/2024 16:43	40802	EXCH_T2	16	0	-16	0.13	0	-0.13	0	0	0	0	0	0	0	0
10/21/2024 16:43	40801	EXCH_T2	3	1	-2	0.27	0.2	-0.07	-0.39	-0.3	1	1	0	1200	1200	0
10/21/2024 16:46	59003	MIFF_T1	1	1	0	0.8	0.4	-0.4	-0.35	-0.54	0	0	0	0	0	0
10/21/2024 16:46	59002	MIFF_T1	5	5	0	0.82	0.32	-0.5	0	0	0	0	0	0	0	0
10/21/2024 16:51	49804	UNIV_T1	1	1	0	0.5	0.3	-0.2	0.53	0.53	0	0	0	0	0	0
10/21/2024 16:51	49803	UNIV_T1	1	1	0	4.4	4.4	0	0	0	0	0	0	0	0	0
10/21/2024 16:56	49804	UNIV_T1	1	1	0	0.5	0.3	-0.2	0.53	0.53	0	0	0	0	0	0
10/21/2024 16:56	49803	UNIV_T1	1	1	0	4.4	4.4	0	0	0	0	0	0	0	0	0
10/21/2024 16:58	14204	EALL_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
10/21/2024 16:59	46501	LOHA_T1	0	0	0	0	0	0	0.07	0.07	1	1	0	1200	1200	0
10/21/2024 16:59	46506	LOHA_T1	4	3	-1	3.73	5.33	1.6	0	0	0	0	0	0	0	0
10/21/2024 16:59	46504	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 17:00	46102	MACI_T1	0	0	0	0	0	0	0.97	0.93	0	0	0	0	0	0
10/21/2024 17:05	44203	POIN_T2	0	0	0	0	0	0	-0.78	-1.03	2	2	0	2100	2100	0
10/21/2024 17:07	43801	SWIL_T1	86	62	-24	0.29	0.3	0.01	0	0	0	0	0	0	0	0
10/21/2024 17:07	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.13	1	1	0	600	600	0
10/21/2024 17:08	43801	SWIL_T1	86	62	-24	0.29	0.3	0.01	0	0	0	0	0	0	0	0
10/21/2024 17:08	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.13	1	1	0	600	600	0
10/21/2024 17:09	67502	WEWI_T2	0	0	0	0	0	0	-0.27	-0.32	0	0	0	0	0	0
10/21/2024 17:09	67503	WEWI_T2	1	1	0	8.3	8.3	0	0	0	0	0	0	0	0	0
10/21/2024 17:14	17901	BART_T1	0	0	0	0	0	0	0.57	0.52	1	1	0	1200	1200	0
10/21/2024 17:15	17901	BART_T1	0	0	0	0	0	0	0.57	0.52	1	1	0	1200	1200	0
10/21/2024 17:18	52001	LING_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
10/21/2024 17:19	52004	LING_T2	2	2	0	6.05	5.6	-0.45	0.03	0.08	0	0	0	0	0	0
10/21/2024 17:19	52006	LING_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
10/21/2024 17:19	52002	LING_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
10/21/2024 17:31	24702	FLND_T2	0	6	6	0	0.78	0.78	1.21	1.2	0	0	0	0	0	0
10/21/2024 17:46	46602	LACR_T1	0	0	0	0	0	0	-0.98	-0.91	0	0	0	0	0	0
10/21/2024 18:45	55105	WERT_T1	0	0	0	0	0	0	-0.57	-0.6	1	1	0	900	900	0
10/21/2024 20:06	26704	HEML_T2	0	0	0	0	0	0	-0.82	-0.8	1	1	0	1200	1200	0
10/21/2024 20:07	10602	BLGL_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
10/21/2024 20:07	61801	EELI_T2	0	1	1	0	0.4	0.4	-0.99	-1	1	1	0	600	600	0
10/21/2024 20:07	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/21/2024 20:08	17002	RIRO_T2	0	18	18	0	0.11	0.11	0.35	0.34	0	0	0	0	0	0
10/21/2024 20:09	14402	SSLA_T1	2	84	82	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/21/2024 20:09	14401	SSLA_T1	1	6	5	0.2	0.23	0.03	-0.54	-0.57	0	0	0	0	0	0
10/21/2024 20:09	15703	TANN_T2	1	1	0	5.4	5.1	-0.3	0	0	0	0	0	0	0	0
10/21/2024 20:09	14403	SSLA_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:09	14404	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:09	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
10/21/2024 20:10	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:10	10805	CHHI_T2	1	1	0	7.5	7.4	-0.1	-1.15	-1.14	1	1	0	600	600	0
10/21/2024 20:11	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/21/2024 20:12	13303	ORVI_T1	0	0	0	0	0	0	0.89	0.9	0	0	0	0	0	0
10/21/2024 20:12	15603	NSTR_T2	0	12	12	0	0.17	0.17	-0.65	-0.65	0	0	0	0	0	0
10/21/2024 20:12	15602	NSTR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:12	15601	NSTR_T2	3	3	0	0.53	0.9	0.37	0	0	0	0	0	0	0	0
10/21/2024 20:12	16101	BING_T2	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
10/21/2024 20:13	61701	ELIZ_T1	1	1	0	5.2	5.5	0.3	0.45	0.53	0	0	0	0	0	0
10/21/2024 20:13	60701	BREC_T1	0	10	10	0	0.13	0.13	-0.5	-0.52	1	1	0	600	600	0
10/21/2024 20:13	24702	FLND_T2	0	0	0	0	0	0	1.35	0.48	0	1	1	0	1200	1200
10/21/2024 20:14	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
10/21/2024 20:14	24902	WHHA_T1	0	2	2	0	0	0	0.72	0.7	0	0	0	0	0	0
10/21/2024 20:14	64302	LINC_T2	0	0	0	0	0	0	1.06	1.06	0	0	0	0	0	0
10/21/2024 20:14	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:14	15703	TANN_T2	1	1	0	5.4	5.1	-0.3	0	0	0	0	0	0	0	0
10/21/2024 20:15	10101	ALLE_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/21/2024 20:15	14802	TREI_T2	10	13	3	0.21	0.18	-0.03	1.2	1.2	0	0	0	0	0	0
10/21/2024 20:15	67001	STHI_T2	358	790	432	0.14	0.21	0.07	0	0	0	0	0	0	0	0
10/21/2024 20:15	14801	TREI_T2	3	4	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/21/2024 20:15	67002	STHI_T2	22	99	77	0.15	0.16	0.01	0.6	0.62	0	0	0	0	0	0
10/21/2024 20:15	23201	HIRU_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
10/21/2024 20:15	63501	HEID_TBK1-2	2	7	5	0.6	0.26	-0.34	0.5	0.47	0	0	0	0	0	0
10/21/2024 20:15	23203	HIRU_T2	0	12	12	0	0.13	0.13	0.17	0.12	0	0	0	0	0	0
10/21/2024 20:15	40802	EXCH_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
10/21/2024 20:15	23202	HIRU_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:15	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:16	67605	WARW_T1	8	16	8	0.34	0.49	0.15	-1.1	-1.11	0	0	0	0	0	0
10/21/2024 20:16	67002	STHI_T2	22	99	77	0.15	0.16	0.01	0	0	0	0	0	0	0	0
10/21/2024 20:16	46001	BERW_T1	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
10/21/2024 20:16	46002	BERW_T2	0	0	0	0	0	0	-1.17	-1.18	1	1	0	900	900	0
10/21/2024 20:16	67001	STHI_T2	358	790	432	0.14	0.21	0.07	0.07	0.08	0	0	0	0	0	0
10/21/2024 20:16	47802	MOCA_T2	3	9	6	0.13	0.1	-0.03	0.46	0.44	0	0	0	0	0	0
10/21/2024 20:17	50502	MECH_T1	1	1	0	2.1	2.3	0.2	1473.53	1473.58	1	1	0	900	900	0
10/21/2024 20:17	14401	SSLA_T1	6	6	0	0.23	0.25	0.02	0	0	0	0	0	0	0	0
10/21/2024 20:17	14801	TREI_T2	3	4	1	0.2	0.15	-0.05	0.4	0.41	0	0	0	0	0	0
10/21/2024 20:17	54601	SUMM_T2	12	13	1	0.73	1	0.27	-4.08	-4.13	2	2	0	2100	2100	0
10/21/2024 20:17	50501	MECH_T1	4	4	0	1.03	1.15	0.12	0	0	0	0	0	0	0	0
10/21/2024 20:17	43402	BENT_T1	0	0	0	0	0	0	-0.63	-0.64	1	1	0	600	600	0
10/21/2024 20:17	20403	ASHF_T2	0	2	2	0	0.1	0.1	0.13	0.12	0	0	0	0	0	0
10/21/2024 20:17	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:17	42001	MNVL_T2	38	68	30	0.26	0.3	0.04	0.3	0.3	0	0	0	0	0	0
10/21/2024 20:17	45501	DERR_T2	0	0	0	0	0	0	0.75	0.96	2	2	0	1800	1800	0
10/21/2024 20:17	42002	MNVL_T2	1	1	0	4.3	4.2	-0.1	0	0	0	0	0	0	0	0
10/21/2024 20:17	54602	SUMM_T2	8	10	2	0.18	0.39	0.21	0	0	0	0	0	0	0	0
10/21/2024 20:17	14802	TREI_T2	10	13	3	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
10/21/2024 20:17	14404	SSLA_T1	0	3	3	0	0.1	0.1	-0.05	-0.05	0	0	0	0	0	0
10/21/2024 20:17	14402	SSLA_T1	40	111	71	0.14	0.17	0.03	0	0	0	0	0	0	0	0
10/21/2024 20:17	20401	ASHF_T2	8	9	1	0.51	0.68	0.17	0	0	0	0	0	0	0	0
10/21/2024 20:17	14403	SSLA_T1	4	2	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
10/21/2024 20:18	24902	WHHA_T1	2	1	-1	0.4	0	-0.4	0.72	0.7	0	0	0	0	0	0
10/21/2024 20:18	67001	STHI_T2	358	790	432	0.14	0.21	0.07	0	0	0	0	0	0	0	0
10/21/2024 20:18	67605	WARW_T1	8	16	8	0.34	0.49	0.15	-1.1	-1.11	0	0	0	0	0	0
10/21/2024 20:18	67603	WARW_T1	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
10/21/2024 20:18	65602	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/21/2024 20:18	67502	WEWI_T2	6	30	24	0.12	0.15	0.03	-0.32	-0.33	0	0	0	0	0	0
10/21/2024 20:18	46602	LACR_T1	0	3	3	0	0.1	0.1	-0.96	-1.04	0	0	0	0	0	0
10/21/2024 20:18	14402	SSLA_T1	40	111	71	0.14	0.17	0.03	0	0	0	0	0	0	0	0
10/21/2024 20:18	41202	KENM_T2	1	1	0	0.4	0.4	0	0.53	0.53	0	0	0	0	0	0
10/21/2024 20:18	14403	SSLA_T1	4	2	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
10/21/2024 20:18	52004	LING_T2	2	2	0	6.35	6.6	0.25	0.1	0.11	0	0	0	0	0	0
10/21/2024 20:18	15703	TANN_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
10/21/2024 20:18	52006	LING_T2	2	2	0	1.05	1.2	0.15	0	0	0	0	0	0	0	0
10/21/2024 20:18	65601	QVIL_T2	22	124	102	0.15	0.23	0.08	0	0	0	0	0	0	0	0
10/21/2024 20:18	17901	BART_T1	0	0	0	0	0	0	2.52	2.53	2	2	0	2400	2400	0
10/21/2024 20:18	67002	STHI_T2	22	99	77	0.15	0.16	0.01	1.2	1.24	0	0	0	0	0	0
10/21/2024 20:18	25404	LAHA_T2	34	0	-34	0.13	0	-0.13	0	0	0	0	0	0	0	0
10/21/2024 20:18	21204	ECAR_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:18	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
10/21/2024 20:18	43302	WATS_T2	4	4	0	0.63	0.4	-0.23	0	0	0	0	0	0	0	0
10/21/2024 20:18	43301	WATS_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
10/21/2024 20:18	21206	ECAR_T2	1	1	0	7.8	8.1	0.3	1.36	1.38	0	0	0	0	0	0
10/21/2024 20:18	25402	LAHA_T2	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
10/21/2024 20:18	67503	WEWI_T2	1	1	0	8.3	8.8	0.5	0	0	0	0	0	0	0	0
10/21/2024 20:18	14401	SSLA_T1	6	6	0	0.23	0.25	0.02	-0.54	-0.57	0	0	0	0	0	0
10/21/2024 20:18	52002	LING_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
10/21/2024 20:18	66504	SMAN_T2	0	0	0	0	0	0	-0.8	-0.68	0	0	0	0	0	0
10/21/2024 20:18	14404	SSLA_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:18	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:18	65603	QVIL_T2	0	1	1	0	0.1	0.1	0.06	0.07	0	0	0	0	0	0
10/21/2024 20:18	65604	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/21/2024 20:19	67001	STHI_T2	358	790	432	0.14	0.21	0.07	0	0	0	0	0	0	0	0
10/21/2024 20:19	14401	SSLA_T1	6	6	0	0.23	0.25	0.02	0	0	0	0	0	0	0	0
10/21/2024 20:19	45902	AUBU_T1	0	0	0	0	0	0	0.23	0.23	1	1	0	600	600	0
10/21/2024 20:19	64202	KINZ_T1	0	8	8	0	0.28	0.28	0	0	0	0	0	0	0	0
10/21/2024 20:19	23203	HIRU_T2	132	12	-120	0.19	0.13	-0.06	0.17	0.12	0	0	0	0	0	0
10/21/2024 20:19	53501	EVIL_T2	1	2	1	0.8	0.7	-0.1	-0.78	-0.82	1	1	0	600	600	0
10/21/2024 20:19	46101	MACI_T2	1	1	0	0.1	0.2	0.1	0.68	0.67	0	0	0	0	0	0
10/21/2024 20:19	57003	WHHI_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
10/21/2024 20:19	66502	SMAN_T2	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
10/21/2024 20:19	67002	STHI_T2	22	99	77	0.15	0.16	0.01	1.8	1.86	0	0	0	0	0	0
10/21/2024 20:19	64902	MILL_T2	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
10/21/2024 20:19	57401	SPAN_T1	2	2	0	0.8	1	0.2	-0.41	-0.55	2	2	0	1200	1200	0
10/21/2024 20:19	65207	PRIN_T4	8	23	15	0.24	0.18	-0.06	0	0	2	2	0	1800	1800	0
10/21/2024 20:19	66504	SMAN_T2	0	0	0	0	0	0	-0.4	-0.34	0	0	0	0	0	0
10/21/2024 20:19	48902	FOSP_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:19	14402	SSLA_T1	40	111	71	0.14	0.17	0.03	0	0	0	0	0	0	0	0
10/21/2024 20:19	65206	PRIN_T4	1	0	-1	3.3	0	-3.3	0	0	0	0	0	0	0	0
10/21/2024 20:19	48901	FOSP_T2	0	0	0	0	0	0	0.49	0.57	0	0	0	0	0	0
10/21/2024 20:19	63501	HEID_TBK1-2	2	7	5	0.6	0.26	-0.34	0.5	0.47	0	0	0	0	0	0
10/21/2024 20:19	43202	MVIL_T2	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
10/21/2024 20:19	57006	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:19	67503	WEWI_T2	1	1	0	8.3	8.8	0.5	0	0	0	0	0	0	0	0
10/21/2024 20:19	64201	KINZ_T1	4	8	4	0.4	0.53	0.13	-0.5	-0.54	2	2	0	1200	1200	0
10/21/2024 20:19	23202	HIRU_T2	29	4	-25	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
10/21/2024 20:19	64204	KINZ_T1	2	34	32	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
10/21/2024 20:19	67502	WEWI_T2	6	30	24	0.12	0.15	0.03	-0.32	-0.33	0	0	0	0	0	0
10/21/2024 20:19	46506	LOHA_T1	3	3	0	5.6	6	0.4	0	0	0	0	0	0	0	0
10/21/2024 20:19	14403	SSLA_T1	4	2	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
10/21/2024 20:19	54602	SUMM_T2	8	10	2	0.18	0.39	0.21	0	0	0	0	0	0	0	0
10/21/2024 20:19	61701	ELIZ_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:19	23201	HIRU_T2	87	4	-83	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
10/21/2024 20:19	46504	LOHA_T1	3	3	0	0.7	0.97	0.27	0	0	0	0	0	0	0	0
10/21/2024 20:19	67203	TEHI_T1	0	0	0	0	0	0	1.7	1.66	2	2	0	1500	1500	0
10/21/2024 20:19	46501	LOHA_T1	0	0	0	0	0	0	0.02	0.05	1	1	0	1200	1200	0
10/21/2024 20:19	44203	POIN_T2	0	0	0	0	0	0	-0.07	-0.15	1	1	0	1200	1200	0
10/21/2024 20:19	14404	SSLA_T1	0	3	3	0	0.1	0.1	-0.05	-0.05	0	0	0	0	0	0
10/21/2024 20:19	64602	LEOL_T1	0	0	0	0	0	0	0.06	0.09	0	0	0	0	0	0
10/21/2024 20:19	54601	SUMM_T2	12	13	1	0.73	1	0.27	-4.08	-4.13	2	2	0	2100	2100	0
10/21/2024 20:19	61703	ELIZ_T1	0	0	0	0	0	0	-2.39	-2.63	2	2	0	2100	2100	0
10/21/2024 20:19	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:20	67605	WARW_T1	8	16	8	0.34	0.49	0.15	-1.1	-1.11	0	0	0	0	0	0
10/21/2024 20:20	67402	WAKE_T2	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/21/2024 20:20	48901	FOSP_T2	0	0	0	0	0	0	0.25	0.28	0	0	0	0	0	0
10/21/2024 20:20	57003	WHHI_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
10/21/2024 20:20	67604	WARW_T1	0	0	0	0	0	0	0.46	0.49	0	0	0	0	0	0
10/21/2024 20:20	24902	WHHA_T1	2	1	-1	0.4	0	-0.4	0.72	0.7	0	0	0	0	0	0
10/21/2024 20:20	59302	MCAL_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/21/2024 20:20	66502	SMAN_T2	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
10/21/2024 20:20	59301	MCAL_T1	5	3	-2	0.58	0.9	0.32	-1.9	-1.91	1	1	0	600	600	0
10/21/2024 20:20	67001	STHI_T2	358	790	432	0.14	0.21	0.07	0.07	0.08	0	0	0	0	0	0
10/21/2024 20:20	67203	TEHI_T1	0	0	0	0	0	0	1.7	1.66	2	2	0	1500	1500	0
10/21/2024 20:20	15104	UPHA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:20	40701	FFLD_T1	23	23	0	0.28	0.15	-0.13	0	0	0	0	0	0	0	0
10/21/2024 20:20	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:20	40703	FFLD_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
10/21/2024 20:20	14801	TREI_T2	3	4	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/21/2024 20:20	45502	DERR_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
10/21/2024 20:20	14802	TREI_T2	10	13	3	0.21	0.18	-0.03	0.4	0.4	0	0	0	0	0	0
10/21/2024 20:20	66504	SMAN_T2	0	0	0	0	0	0	-0.4	-0.34	0	0	0	0	0	0
10/21/2024 20:20	40702	FFLD_T1	8	1	-7	0.19	0.2	0.01	0	0	0	0	0	0	0	0
10/21/2024 20:20	67002	STHI_T2	22	99	77	0.15	0.16	0.01	0	0	0	0	0	0	0	0
10/21/2024 20:20	15103	UPHA_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
10/21/2024 20:20	48902	FOSP_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:21	67002	STHI_T2	22	99	77	0.15	0.16	0.01	0.62	0.6	0	0	0	0	0	0
10/21/2024 20:21	67001	STHI_T2	358	790	432	0.14	0.21	0.07	0	0	0	0	0	0	0	0
10/21/2024 20:21	23201	HIRU_T2	87	4	-83	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
10/21/2024 20:21	46004	BERW_T2	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
10/21/2024 20:21	23203	HIRU_T2	132	12	-120	0.19	0.13	-0.06	0.17	0.12	0	0	0	0	0	0
10/21/2024 20:21	60701	BREC_T1	0	140	140	0	0.15	0.15	-1.04	-1.07	2	2	0	1200	1200	0
10/21/2024 20:21	48901	FOSP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:21	66703	STRA_T1	10	42	32	0.32	0.28	-0.04	-0.32	-0.35	0	0	0	0	0	0
10/21/2024 20:21	45501	DERR_T2	0	0	0	0	0	0	0.96	0.77	2	2	0	1800	1800	0
10/21/2024 20:21	23202	HIRU_T2	29	4	-25	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
10/21/2024 20:21	45902	AUBU_T1	0	0	0	0	0	0	0.23	0.23	1	1	0	600	600	0
10/21/2024 20:21	47203	FAXO_T2	0	1	1	0	0	0	0	0	1	1	0	1200	1200	0
10/21/2024 20:21	57401	SPAN_T1	2	2	0	0.8	1	0.2	-0.61	-0.83	3	3	0	1800	1800	0
10/21/2024 20:21	48902	FOSP_T2	0	3	3	0	0.1	0.1	0.09	0.02	0	0	0	0	0	0
10/21/2024 20:22	51305	WIND_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
10/21/2024 20:22	24702	FLND_T2	0	0	0	0	0	0	0.48	-0.13	1	1	0	1200	1200	0
10/21/2024 20:22	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:22	65603	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:22	65602	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/21/2024 20:22	65604	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/21/2024 20:22	40802	EXCH_T2	15	0	-15	0.12	0	-0.12	0	0	0	0	0	0	0	0
10/21/2024 20:22	49803	UNIV_T1	1	1	0	4.6	4.5	-0.1	-1.09	-1.1	0	0	0	0	0	0
10/21/2024 20:22	57201	ROSS_T1	0	0	0	0	0	0	-0.74	-0.76	0	0	0	0	0	0
10/21/2024 20:22	40801	EXCH_T2	3	0	-3	0.4	0	-0.4	0.77	0.77	0	0	0	0	0	0
10/21/2024 20:22	43801	SWIL_T1	52	62	10	0.32	0.32	0	0	0	0	0	0	0	0	0
10/21/2024 20:22	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:22	66502	SMAN_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
10/21/2024 20:22	43802	SWIL_T1	0	0	0	0	0	0	-0.21	-0.2	1	1	0	600	600	0
10/21/2024 20:22	65601	QVIL_T2	22	124	102	0.15	0.23	0.08	-1.22	-1.27	1	1	0	900	900	0
10/21/2024 20:22	64305	LINC_T1	0	0	0	0	0	0	-0.52	-0.46	0	0	0	0	0	0
10/21/2024 20:22	60801	BUCK_T1	6	32	26	0.13	0.21	0.08	-0.23	-0.24	0	0	0	0	0	0
10/21/2024 20:22	60803	BUCK_T1	7	16	9	0.2	0.33	0.13	0	0	0	0	0	0	0	0
10/21/2024 20:23	67604	WARW_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
10/21/2024 20:23	57003	WHHI_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
10/21/2024 20:23	67001	STHI_T2	358	790	432	0.14	0.21	0.07	0	0	0	0	0	0	0	0
10/21/2024 20:23	43801	SWIL_T1	52	62	10	0.32	0.32	0	0	0	0	0	0	0	0	0
10/21/2024 20:23	10801	CHHI_T1	0	0	0	0	0	0	-1.42	-1.44	2	2	0	1500	1500	0
10/21/2024 20:23	57203	ROSS_T1	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
10/21/2024 20:23	51302	WIND_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
10/21/2024 20:23	50501	MECH_T1	4	4	0	1.03	1.15	0.12	0.09	0.1	0	0	0	0	0	0
10/21/2024 20:23	61701	ELIZ_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:23	67002	STHI_T2	22	99	77	0.15	0.16	0.01	1.86	1.8	0	0	0	0	0	0
10/21/2024 20:23	40802	EXCH_T2	15	0	-15	0.12	0	-0.12	0	0	0	0	0	0	0	0
10/21/2024 20:23	43202	MVIL_T2	0	0	0	0	0	0	-1.42	-1.44	0	0	0	0	0	0
10/21/2024 20:23	67605	WARW_T1	8	16	8	0.34	0.49	0.15	0	0	0	0	0	0	0	0
10/21/2024 20:23	65604	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/21/2024 20:23	65603	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:23	61703	ELIZ_T1	0	0	0	0	0	0	-2.63	-2.22	2	2	0	2100	2100	0
10/21/2024 20:23	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:23	65601	QVIL_T2	22	124	102	0.15	0.23	0.08	0	0	0	0	0	0	0	0
10/21/2024 20:23	65602	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/21/2024 20:23	57004	WHHI_T2	0	0	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
10/21/2024 20:23	40801	EXCH_T2	3	0	-3	0.4	0	-0.4	0.77	0.77	0	0	0	0	0	0
10/21/2024 20:23	66504	SMAN_T2	0	0	0	0	0	0	-0.34	-0.44	0	0	0	0	0	0
10/21/2024 20:23	50502	MECH_T1	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
10/21/2024 20:23	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:24	53501	EVIL_T2	1	2	1	0.8	0.7	-0.1	-1.64	-1.59	2	2	0	1200	1200	0
10/21/2024 20:24	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:24	65502	MOJO_T2	257	246	-11	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
10/21/2024 20:24	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:24	14401	SSLA_T1	6	6	0	0.23	0.25	0.02	0	0	0	0	0	0	0	0
10/21/2024 20:24	45702	LIND_T2	1	1	0	1.7	0.8	-0.9	-0.47	-0.47	0	0	0	0	0	0
10/21/2024 20:24	67502	WEWI_T2	6	30	24	0.12	0.15	0.03	-0.33	-0.35	0	0	0	0	0	0
10/21/2024 20:24	14404	SSLA_T1	0	3	3	0	0.1	0.1	-0.05	-0.08	0	0	0	0	0	0
10/21/2024 20:24	66502	SMAN_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
10/21/2024 20:24	41502	FAIR_T2	0	0	0	0	0	0	-1.7	-1.71	1	1	0	900	900	0
10/21/2024 20:24	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:24	61701	ELIZ_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:24	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
10/21/2024 20:24	57403	SPAN_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
10/21/2024 20:24	61703	ELIZ_T1	0	0	0	0	0	0	-2.63	-2.22	2	2	0	2100	2100	0
10/21/2024 20:24	67103	SPRI_T1	0	0	0	0	0	0	-0.15	-0.09	0	0	0	0	0	0
10/21/2024 20:24	46801	HEPB_T2	3	3	0	0.6	0.73	0.13	0.53	0.5	0	0	0	0	0	0
10/21/2024 20:24	40801	EXCH_T2	3	0	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/21/2024 20:24	64902	MILL_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
10/21/2024 20:24	57401	SPAN_T1	2	2	0	0.8	1	0.2	-0.28	-0.26	1	1	0	600	600	0
10/21/2024 20:24	46302	ROHR_T1	3	3	0	1.63	1.73	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:24	46205	DANV_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
10/21/2024 20:24	40802	EXCH_T2	15	0	-15	0.12	0	-0.12	-0.61	-0.64	0	0	0	0	0	0
10/21/2024 20:24	65503	MOJO_T2	75	53	-22	0.15	0.12	-0.03	-0.29	-0.36	0	0	0	0	0	0
10/21/2024 20:24	44703	MUNC_T2	2	2	0	0.6	1.25	0.65	0	0	0	0	0	0	0	0
10/21/2024 20:24	43302	WATS_T2	4	4	0	0.63	0.4	-0.23	0	0	0	0	0	0	0	0
10/21/2024 20:24	63501	HEID_TBK1-2	2	7	5	0.6	0.26	-0.34	0.47	0.43	0	0	0	0	0	0
10/21/2024 20:24	42902	MIDD_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
10/21/2024 20:24	44702	MUNC_T2	7	10	3	0.13	0.19	0.06	0	0	0	0	0	0	0	0
10/21/2024 20:24	54601	SUMM_T2	12	13	1	0.73	1	0.27	-4.13	-4.2	2	2	0	2100	2100	0
10/21/2024 20:24	46301	ROHR_T1	1	1	0	7.7	7.7	0	0.12	0.15	0	0	0	0	0	0
10/21/2024 20:24	46203	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:24	43402	BENT_T1	0	0	0	0	0	0	-0.64	-0.63	1	1	0	600	600	0
10/21/2024 20:24	43301	WATS_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
10/21/2024 20:24	67605	WARW_T1	8	16	8	0.34	0.49	0.15	0	0	0	0	0	0	0	0
10/21/2024 20:24	44701	MUNC_T2	6	10	4	0.18	0.26	0.08	0	0	0	0	0	0	0	0
10/21/2024 20:24	60701	BREC_T1	0	140	140	0	0.15	0.15	-0.52	-0.53	1	1	0	600	600	0
10/21/2024 20:24	54602	SUMM_T2	8	10	2	0.18	0.39	0.21	0	0	0	0	0	0	0	0
10/21/2024 20:24	67503	WEWI_T2	1	1	0	8.3	8.8	0.5	0	0	0	0	0	0	0	0
10/21/2024 20:24	14402	SSLA_T1	40	111	71	0.14	0.17	0.03	0	0	0	0	0	0	0	0
10/21/2024 20:24	14403	SSLA_T1	4	2	-2	0.1	0.1	0	0.59	0.54	0	0	0	0	0	0
10/21/2024 20:25	50505	MECH_T1	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
10/21/2024 20:25	46801	HEPB_T2	3	3	0	0.6	0.73	0.13	0.53	0.5	0	0	0	0	0	0
10/21/2024 20:25	66502	SMAN_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
10/21/2024 20:25	55002	NEWP_T1	2	4	2	0.15	0.33	0.18	-0.26	-0.26	0	0	0	0	0	0
10/21/2024 20:25	43301	WATS_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
10/21/2024 20:25	43302	WATS_T2	4	4	0	0.63	0.4	-0.23	0	0	0	0	0	0	0	0
10/21/2024 20:25	57203	ROSS_T1	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
10/21/2024 20:25	67001	STHI_T2	358	790	432	0.14	0.21	0.07	0.08	0.06	0	0	0	0	0	0
10/21/2024 20:25	67002	STHI_T2	22	99	77	0.15	0.16	0.01	0	0	0	0	0	0	0	0
10/21/2024 20:25	46101	MACI_T2	1	1	0	0.1	0.2	0.1	0.67	0.68	0	0	0	0	0	0
10/21/2024 20:25	50506	MECH_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
10/21/2024 20:25	66504	SMAN_T2	0	0	0	0	0	0	-0.34	-0.44	0	0	0	0	0	0
10/21/2024 20:25	50502	MECH_T1	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
10/21/2024 20:25	66505	SMAN_T2	0	0	0	0	0	0	0.32	0.36	1	1	0	900	900	0
10/21/2024 20:25	20401	ASHF_T2	8	9	1	0.51	0.68	0.17	0	0	0	0	0	0	0	0
10/21/2024 20:25	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:25	20403	ASHF_T2	0	2	2	0	0.1	0.1	0.12	0.08	0	0	0	0	0	0
10/21/2024 20:25	60701	BREC_T1	0	140	140	0	0.15	0.15	0	0	0	0	0	0	0	0
10/21/2024 20:25	60102	COCA_T1	0	0	0	0	0	0	-0.59	-0.58	2	2	0	1200	1200	0
10/21/2024 20:25	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:25	50501	MECH_T1	4	4	0	1.03	1.15	0.12	0	0	0	0	0	0	0	0
10/21/2024 20:26	61703	ELIZ_T1	0	0	0	0	0	0	-2.63	-2.22	2	2	0	2100	2100	0
10/21/2024 20:26	54602	SUMM_T2	8	10	2	0.18	0.39	0.21	0	0	0	0	0	0	0	0
10/21/2024 20:26	60701	BREC_T1	0	140	140	0	0.15	0.15	-0.52	-0.53	1	1	0	600	600	0
10/21/2024 20:26	13704	SCHN_T2	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
10/21/2024 20:26	63803	HEMP_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/21/2024 20:26	46004	BERW_T2	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
10/21/2024 20:26	50501	MECH_T1	4	4	0	1.03	1.15	0.12	0	0	0	0	0	0	0	0
10/21/2024 20:26	20601	GRWO_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
10/21/2024 20:26	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:26	57004	WHHI_T2	0	0	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
10/21/2024 20:26	40902	JESH_T1	0	1	1	0	0.1	0.1	-1.58	-1.62	0	0	0	0	0	0
10/21/2024 20:26	44801	EDAN_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
10/21/2024 20:26	50502	MECH_T1	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
10/21/2024 20:26	50506	MECH_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
10/21/2024 20:26	66502	SMAN_T2	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
10/21/2024 20:26	63801	HEMP_T1	0	0	0	0	0	0	-0.53	-0.5	0	0	0	0	0	0
10/21/2024 20:26	65205	PRIN_T1	1	2	1	1.8	2	0.2	0	0	0	0	0	0	0	0
10/21/2024 20:26	57003	WHHI_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
10/21/2024 20:26	61701	ELIZ_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:26	54601	SUMM_T2	12	13	1	0.73	1	0.27	-4.13	-4.2	2	2	0	2100	2100	0
10/21/2024 20:26	14801	TREI_T2	3	4	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/21/2024 20:26	14802	TREI_T2	10	13	3	0.21	0.18	-0.03	0.4	0.38	0	0	0	0	0	0
10/21/2024 20:26	45702	LIND_T2	1	1	0	1.7	0.8	-0.9	-0.47	-0.47	0	0	0	0	0	0
10/21/2024 20:26	63804	HEMP_T1	5	5	0	1.12	1.08	-0.04	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/21/2024 20:26	58401	MORO_T1	0	0	0	0	0	0	-0.61	-0.65	0	0	0	0	0	0
10/21/2024 20:26	20603	GRWO_T2	20	22	2	0.31	0.21	-0.1	0.35	0.32	0	0	0	0	0	0
10/21/2024 20:27	60701	BREC_T1	0	140	140	0	0.15	0.15	-0.52	-0.53	1	1	0	600	600	0
10/21/2024 20:27	67001	STHI_T2	358	790	432	0.14	0.21	0.07	0.08	0.06	0	0	0	0	0	0
10/21/2024 20:27	40802	EXCH_T2	15	0	-15	0.12	0	-0.12	-0.31	-0.32	0	0	0	0	0	0
10/21/2024 20:27	52001	LING_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
10/21/2024 20:27	24201	PROV_T3	9	53	44	0.8	0.24	-0.56	0	0	1	1	0	1200	1200	0
10/21/2024 20:27	46801	HEPB_T2	3	3	0	0.6	0.73	0.13	0	0	0	0	0	0	0	0
10/21/2024 20:27	24204	PROV_T3	3	5	2	1.87	1.24	-0.63	0	0	0	0	0	0	0	0
10/21/2024 20:27	66502	SMAN_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
10/21/2024 20:27	64801	MONE_T2	1	15	14	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/21/2024 20:27	50502	MECH_T1	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
10/21/2024 20:27	44502	HAMI_T2	1	1	0	3.4	3.6	0.2	0	0	0	0	0	0	0	0
10/21/2024 20:27	50506	MECH_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
10/21/2024 20:27	57403	SPAN_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
10/21/2024 20:27	50501	MECH_T1	4	4	0	1.03	1.15	0.12	0	0	0	0	0	0	0	0
10/21/2024 20:27	46001	BERW_T1	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
10/21/2024 20:27	67002	STHI_T2	22	99	77	0.15	0.16	0.01	0	0	0	0	0	0	0	0
10/21/2024 20:27	57401	SPAN_T1	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
10/21/2024 20:27	55105	WERT_T1	0	0	0	0	0	0	-0.65	-0.66	1	1	0	900	900	0
10/21/2024 20:27	64802	MONE_T2	7	16	9	0.11	0.12	0.01	0.22	0.24	0	0	0	0	0	0
10/21/2024 20:27	46803	HEPB_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
10/21/2024 20:27	44505	HAMI_T2	0	0	0	0	0	0	0.6	0.55	0	0	0	0	0	0
10/21/2024 20:27	40801	EXCH_T2	3	0	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/21/2024 20:27	55102	WERT_T2	0	0	0	0	0	0	-0.79	-0.29	1	0	-1	600	0	-600
10/21/2024 20:27	46004	BERW_T2	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
10/21/2024 20:28	59003	MIFF_T1	1	0	-1	0.6	0	-0.6	0.75	0.27	0	0	0	0	0	0
10/21/2024 20:28	59002	MIFF_T1	6	5	-1	0.38	0.28	-0.1	0	0	0	0	0	0	0	0
10/21/2024 20:28	55001	NEWP_T1	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
10/21/2024 20:28	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
10/21/2024 20:28	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:28	64201	KINZ_T1	4	8	4	0.4	0.53	0.13	0	0	0	0	0	0	0	0
10/21/2024 20:28	43802	SWIL_T1	0	0	0	0	0	0	-0.21	-0.2	1	1	0	600	600	0
10/21/2024 20:28	64303	LINC_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
10/21/2024 20:28	43801	SWIL_T1	52	62	10	0.32	0.32	0	0	0	0	0	0	0	0	0
10/21/2024 20:28	64204	KINZ_T1	2	34	32	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
10/21/2024 20:28	13303	ORVI_T1	0	0	0	0	0	0	0.9	0.98	0	0	0	0	0	0
10/21/2024 20:28	57203	ROSS_T1	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
10/21/2024 20:28	60701	BREC_T1	0	140	140	0	0.15	0.15	-0.52	-0.53	1	1	0	600	600	0
10/21/2024 20:28	64202	KINZ_T1	0	8	8	0	0.28	0.28	0	0	0	0	0	0	0	0
10/21/2024 20:28	46801	HEPB_T2	3	3	0	0.6	0.73	0.13	0.53	0.5	0	0	0	0	0	0
10/21/2024 20:28	55002	NEWP_T1	2	4	2	0.15	0.33	0.18	0	0	0	0	0	0	0	0
10/21/2024 20:28	66502	SMAN_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
10/21/2024 20:29	46001	BERW_T1	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
10/21/2024 20:29	57004	WHIH_T2	0	0	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
10/21/2024 20:29	42902	MIDD_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
10/21/2024 20:29	57401	SPAN_T1	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
10/21/2024 20:29	57106	SPHI_T2	3	3	0	1.47	1.4	-0.07	0	0	0	0	0	0	0	0
10/21/2024 20:29	50502	MECH_T1	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
10/21/2024 20:29	50501	MECH_T1	4	4	0	1.03	1.15	0.12	0	0	0	0	0	0	0	0
10/21/2024 20:29	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:29	57104	SPHI_T2	2	2	0	3.95	1.1	-2.85	-0.78	-0.82	1	1	0	900	900	0
10/21/2024 20:29	58401	MORO_T1	0	0	0	0	0	0	-0.61	-0.65	0	0	0	0	0	0
10/21/2024 20:29	64204	KINZ_T1	2	34	32	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
10/21/2024 20:29	40601	PIGR_T1	155	177	22	0.26	0.31	0.05	0	0	0	0	0	0	0	0
10/21/2024 20:29	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:29	64203	KINZ_T1	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
10/21/2024 20:29	47802	MOCA_T2	3	9	6	0.13	0.1	-0.03	0.88	0.71	0	0	0	0	0	0
10/21/2024 20:29	64202	KINZ_T1	0	8	8	0	0.28	0.28	0	0	0	0	0	0	0	0
10/21/2024 20:29	57403	SPAN_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
10/21/2024 20:29	50506	MECH_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
10/21/2024 20:29	49803	UNIV_T1	1	1	0	4.6	4.5	-0.1	-1.09	-1.1	0	0	0	0	0	0
10/21/2024 20:29	57003	WHIH_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
10/21/2024 20:29	63501	HEID_TBK1-2	2	7	5	0.6	0.26	-0.34	0.47	0.43	0	0	0	0	0	0
10/21/2024 20:29	43202	MVIL_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
10/21/2024 20:29	64201	KINZ_T1	4	8	4	0.4	0.53	0.13	0	0	0	0	0	0	0	0
10/21/2024 20:29	57101	SPHI_T2	5	5	0	1.88	1.46	-0.42	0	0	0	0	0	0	0	0
10/21/2024 20:29	40602	PIGR_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
10/21/2024 20:30	50501	MECH_T1	4	4	0	0.95	1.35	0.4	0	0	0	0	0	0	0	0
10/21/2024 20:30	44202	POIN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/21/2024 20:30	66503	SMAN_T2	0	0	0	0	0	0	0.38	0.34	0	0	0	0	0	0
10/21/2024 20:30	40801	EXCH_T2	0	0	0	0	0	0	0.77	0.77	0	0	0	0	0	0
10/21/2024 20:30	50506	MECH_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
10/21/2024 20:30	50502	MECH_T1	1	1	0	2	2.3	0.3	0	0	0	0	0	0	0	0
10/21/2024 20:30	48901	FOSP_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
10/21/2024 20:30	57205	ROSS_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
10/21/2024 20:30	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:30	44301	BEAV_T2	0	0	0	0	0	0	-0.14	-0.15	1	1	0	600	600	0
10/21/2024 20:30	48902	FOSP_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:30	44502	HAMI_T2	1	1	0	3.5	3.6	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:30	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:30	46004	BERW_T2	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
10/21/2024 20:30	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.29	0	0	0	0	0	0
10/21/2024 20:30	53501	EVIL_T2	1	5	4	1.2	0.36	-0.84	-0.82	-0.8	1	1	0	600	600	0
10/21/2024 20:30	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:31	67605	WARW_T1	9	19	10	0.57	0.49	-0.08	0	0	0	0	0	0	0	0
10/21/2024 20:31	63501	HEID_TBK1-2	3	5	2	0.47	0.44	-0.03	0.47	0.43	0	0	0	0	0	0
10/21/2024 20:31	65601	QVIL_T2	98	123	25	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
10/21/2024 20:31	42902	MIDD_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
10/21/2024 20:31	67604	WARW_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
10/21/2024 20:31	65602	QVIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:31	67201	TEHI_T1	0	0	0	0	0	0	0.04	-0.13	1	1	0	900	900	0
10/21/2024 20:31	65604	QVIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/21/2024 20:31	55101	WERT_T1	0	0	0	0	0	0	-1.13	-1.08	1	1	0	600	600	0
10/21/2024 20:31	65603	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:31	57401	SPAN_T1	2	2	0	0.9	1.05	0.15	-0.28	-0.26	1	1	0	600	600	0
10/21/2024 20:31	53501	EVIL_T2	1	5	4	1.2	0.36	-0.84	-0.82	-0.8	1	1	0	600	600	0
10/21/2024 20:31	65702	RVIL_T2	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
10/21/2024 20:32	57401	SPAN_T1	2	2	0	0.9	1.05	0.15	0	0	0	0	0	0	0	0
10/21/2024 20:32	57403	SPAN_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
10/21/2024 20:32	49804	UNIV_T1	0	1	1	0	0.1	0.1	0.4	0.41	0	0	0	0	0	0
10/21/2024 20:32	49803	UNIV_T1	1	1	0	4.5	4.5	0	0	0	0	0	0	0	0	0
10/21/2024 20:32	58402	MORO_T1	0	0	0	0	0	0	0.25	0.25	1	1	0	900	900	0
10/21/2024 20:32	40801	EXCH_T2	0	1	1	0	0.1	0.1	0.77	0.77	0	0	0	0	0	0
10/21/2024 20:32	63804	HEMP_T1	5	1	-4	1.08	5	3.92	0.76	0.78	0	0	0	0	0	0
10/21/2024 20:33	54602	SUMM_T2	10	6	-4	0.33	0.52	0.19	0	0	0	0	0	0	0	0
10/21/2024 20:33	54601	SUMM_T2	13	13	0	0.74	1.2	0.46	-4.13	-4.2	2	2	0	2100	2100	0
10/21/2024 20:33	12606	MACA_T1	0	0	0	0	0	0	0.71	0.68	0	0	0	0	0	0
10/21/2024 20:33	43801	SWIL_T1	45	75	30	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
10/21/2024 20:33	54603	SUMM_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/21/2024 20:33	64901	MILL_T1	3	18	15	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
10/21/2024 20:33	40802	EXCH_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
10/21/2024 20:33	64904	MILL_T1	0	0	0	0	0	0	0.46	0.51	0	0	0	0	0	0
10/21/2024 20:33	50502	MECH_T1	1	1	0	2	2.3	0.3	0	0	0	0	0	0	0	0
10/21/2024 20:33	43802	SWIL_T1	0	1	1	0	0.1	0.1	-0.21	-0.2	1	1	0	600	600	0
10/21/2024 20:33	50501	MECH_T1	4	4	0	0.95	1.35	0.4	0.09	0.1	0	0	0	0	0	0
10/21/2024 20:33	57201	ROSS_T1	0	0	0	0	0	0	-0.74	-0.76	0	0	0	0	0	0
10/21/2024 20:33	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/21/2024 20:34	10801	CHHI_T1	0	0	0	0	0	0	-1.42	-1.44	2	2	0	1500	1500	0
10/21/2024 20:34	53501	EVIL_T2	1	5	4	1.2	0.36	-0.84	-0.82	-0.8	1	1	0	600	600	0
10/21/2024 20:35	55105	WERT_T1	0	0	0	0	0	0	-0.65	-0.66	1	1	0	900	900	0
10/21/2024 20:35	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:37	67503	WEWI_T2	1	1	0	8.2	8.8	0.6	-0.25	-0.27	0	0	0	0	0	0
10/21/2024 20:37	55105	WERT_T1	0	0	0	0	0	0	-0.66	-0.68	1	1	0	900	900	0
10/21/2024 20:37	67502	WEWI_T2	30	56	26	0.15	0.16	0.01	0	0	0	0	0	0	0	0
10/21/2024 20:39	15703	TANN_T2	1	1	0	5.1	4.8	-0.3	0	0	0	0	0	0	0	0
10/21/2024 20:39	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21/2024 20:39	15702	TANN_T2	0	10	10	0	0.11	0.11	-0.41	-0.42	0	0	0	0	0	0
10/21/2024 20:41	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
10/21/2024 20:45	46102	MACI_T1	0	0	0	0	0	0	0.93	0.94	0	0	0	0	0	0
10/21/2024 20:50	28102	TWLA_T2	11	18	7	0.34	0.43	0.09	0.18	0.18	0	0	0	0	0	0
10/21/2024 20:53	13303	ORVI_T1	0	0	0	0	0	0	0.87	0.86	0	0	0	0	0	0
10/21/2024 20:54	43302	WATS_T2	4	4	0	0.4	1.15	0.75	0	0	0	0	0	0	0	0
10/21/2024 20:54	43301	WATS_T2	0	1	1	0	0.4	0.4	0.12	0.11	0	0	0	0	0	0
10/21/2024 21:02	54501	ENOL_T2	4	4	0	0.53	0.65	0.12	-0.54	-0.56	1	1	0	600	600	0
10/21/2024 21:02	54505	ENOL_T2	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
10/21/2024 21:02	54502	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
10/22/2024 5:57	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 5:57	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 7:49	15202	SFAR_T1	0	0	0	0	0	0	-0.6	-0.62	1	1	0	1200	1200	0
10/22/2024 8:04	13704	SOHN_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
10/22/2024 8:07	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 8:07	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 8:07	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/22/2024 8:21	67501	WEWI_T1	0	0	0	0	0	0	-0.69	-0.4	0	0	0	0	0	0
10/22/2024 8:23	67501	WEWI_T1	0	0	0	0	0	0	-0.69	-0.4	0	0	0	0	0	0
10/22/2024 8:23	67505	WEWI_T1	0	0	0	0	0	0	-0.18	-0.11	2	2	0	1800	1800	0
10/22/2024 8:33	55002	NEWP_T1	5	5	0	0.62	0.74	0.12	-0.25	-0.26	0	0	0	0	0	0
10/22/2024 8:35	55002	NEWP_T1	5	5	0	0.62	0.74	0.12	-0.25	-0.26	0	0	0	0	0	0
10/22/2024 8:35	47403	PENS_T1	1	0	-1	2.1	0	-2.1	0	0	0	0	0	0	0	0
10/22/2024 8:35	47401	PENS_T1	0	4	4	0	0.55	0.55	0.1	0.16	0	0	0	0	0	0
10/22/2024 8:35	55001	NEWP_T1	0	0	0	0	0	0	-0.07	-0.01	0	0	0	0	0	0
10/22/2024 8:35	47402	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/22/2024 8:36	14801	TREI_T2	3	79	76	0.27	0.22	-0.05	0.29	0.28	0	0	0	0	0	0
10/22/2024 8:36	14802	TREI_T2	3	19	16	0.1	0.16	0.06	0	0	0	0	0	0	0	0
10/22/2024 8:36	67106	SPRI_T2	0	0	0	0	0	0	-1.52	-1.52	1	1	0	600	600	0
10/22/2024 8:37	67503	WEWI_T2	1	1	0	9.2	9.4	0.2	-0.3	-0.31	0	0	0	0	0	0
10/22/2024 8:37	67106	SPRI_T2	0	0	0	0	0	0	-1.52	-1.52	1	1	0	600	600	0
10/22/2024 8:37	67502	WEWI_T2	0	19	19	0	0.11	0.11	0	0	0	0	0	0	0	0
10/22/2024 8:39	14801	TREI_T2	3	79	76	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
10/22/2024 8:39	14802	TREI_T2	3	19	16	0.1	0.16	0.06	0.27	0.37	0	0	0	0	0	0
10/22/2024 8:41	45502	DERR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/22/2024 8:41	45501	DERR_T2	0	1	1	0	0.6	0.6	0.61	0.43	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/22/2024 8:42	62605	ENGL_T1	1	4	3	0.1	0.15	0.05	-0.91	-0.86	0	0	0	0	0	0
10/22/2024 8:42	62607	ENGL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/22/2024 8:43	62607	ENGL_T1	0	1	1	0	0.3	0.3	-1.22	-1.21	1	1	0	300	300	0
10/22/2024 8:43	45501	DERR_T2	0	1	1	0	0.6	0.6	0.61	0.43	2	2	0	1800	1800	0
10/22/2024 8:43	45502	DERR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/22/2024 8:43	62605	ENGL_T1	1	4	3	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/22/2024 8:43	62601	ENGL_T1	0	0	0	0	0	0	-0.25	-0.29	0	0	0	0	0	0
10/22/2024 8:44	62605	ENGL_T1	1	4	3	0.1	0.15	0.05	-0.91	-0.86	0	0	0	0	0	0
10/22/2024 8:44	62607	ENGL_T1	0	1	1	0	0.3	0.3	-1.22	-1.21	1	1	0	300	300	0
10/22/2024 8:45	62607	ENGL_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
10/22/2024 8:45	62606	ENGL_T1	0	0	0	0	0	0	-1.03	-0.86	1	1	0	900	900	0
10/22/2024 8:45	62605	ENGL_T1	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
10/22/2024 8:46	10101	ALLE_T3	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
10/22/2024 8:46	64902	MILL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/22/2024 8:46	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 8:46	64903	MILL_T2	0	0	0	0	0	0	0.22	0.28	0	0	0	0	0	0
10/22/2024 8:47	64902	MILL_T2	0	1	1	0	0.3	0.3	-0.8	-0.79	1	1	0	900	900	0
10/22/2024 8:47	63501	HEID_TBK1-2	37	35	-2	0.33	0.27	-0.06	-0.32	-0.31	1	1	0	900	900	0
10/22/2024 8:47	64903	MILL_T2	0	0	0	0	0	0	0.22	0.28	0	0	0	0	0	0
10/22/2024 8:48	46505	LOHA_T1	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
10/22/2024 8:48	46504	LOHA_T1	3	4	1	0.67	0.45	-0.22	0	0	0	0	0	0	0	0
10/22/2024 8:48	46506	LOHA_T1	4	4	0	4.43	4.6	0.17	0	0	0	0	0	0	0	0
10/22/2024 8:48	13501	MCMI_T1	0	0	0	0	0	0	-0.01	0.04	0	0	0	0	0	0
10/22/2024 8:49	27201	YATE_T1	10	10	0	5.48	5.38	-0.1	0	0	0	0	0	0	0	0
10/22/2024 8:49	64902	MILL_T2	0	1	1	0	0.3	0.3	-0.8	-0.79	1	1	0	900	900	0
10/22/2024 8:50	10101	ALLE_T3	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
10/22/2024 8:50	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 8:50	15204	SFAR_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
10/22/2024 8:50	15203	SFAR_T2	36	140	104	0.12	0.23	0.11	0	0	0	0	0	0	0	0
10/22/2024 8:51	15203	SFAR_T2	36	140	104	0.12	0.23	0.11	-1.4	-1.37	0	0	0	0	0	0
10/22/2024 8:53	15203	SFAR_T2	36	140	104	0.12	0.23	0.11	-1.4	-1.37	0	0	0	0	0	0
10/22/2024 8:54	15203	SFAR_T2	36	140	104	0.12	0.23	0.11	-2.8	-2.74	0	0	0	0	0	0
10/22/2024 8:56	15203	SFAR_T2	36	140	104	0.12	0.23	0.11	0	0	0	0	0	0	0	0
10/22/2024 8:56	15204	SFAR_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
10/22/2024 8:57	63802	HEMP_T1	0	0	0	0	0	0	-0.09	0.03	0	0	0	0	0	0
10/22/2024 8:57	50105	HARR_T3	6	6	0	5.72	5.73	0.01	0	0	0	0	0	0	0	0
10/22/2024 8:57	63804	HEMP_T1	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
10/22/2024 8:57	63803	HEMP_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
10/22/2024 8:57	50103	HARR_T3	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
10/22/2024 8:57	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 8:57	50106	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 8:57	12206	FOGE_T2	0	0	0	0	0	0	-1.26	-1.28	2	2	0	2100	2100	0
10/22/2024 8:57	50107	HARR_T3	1	2	1	7.3	7.9	0.6	0	0	0	0	0	0	0	0
10/22/2024 8:57	50201	HARR_T3	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/22/2024 8:58	63804	HEMP_T1	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
10/22/2024 8:58	63803	HEMP_T1	0	3	3	0	0.23	0.23	0.06	0.11	0	0	0	0	0	0
10/22/2024 8:58	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 8:59	12802	MICK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 8:59	12807	MICK_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/22/2024 8:59	14204	EALL_T2	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
10/22/2024 8:59	12801	MICK_T1	0	0	0	0	0	0	0.66	0.61	0	0	0	0	0	0
10/22/2024 8:59	12803	MICK_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
10/22/2024 9:00	63501	HEID_TBK1-2	35	2	-33	0.26	1.1	0.84	-0.92	1.94	3	0	-3	2700	0	-2700
10/22/2024 9:01	23201	HIRU_T2	15	13	-2	0.12	0.13	0.01	0.12	0.12	0	0	0	0	0	0
10/22/2024 9:01	23203	HIRU_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/22/2024 9:02	13503	MCMI_T2	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/22/2024 9:02	64902	MILL_T2	1	1	0	0.1	0.3	0.2	-0.79	-0.82	1	1	0	900	900	0
10/22/2024 9:02	15203	SFAR_T2	139	109	-30	0.23	0.18	-0.05	-1.4	-1.37	0	0	0	0	0	0
10/22/2024 9:02	63501	HEID_TBK1-2	35	2	-33	0.26	1.1	0.84	-0.31	0.65	1	0	-1	900	0	-900
10/22/2024 9:03	14201	EALL_T1	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
10/22/2024 9:05	46504	LOHA_T1	3	4	1	0.47	0.65	0.18	0	0	0	0	0	0	0	0
10/22/2024 9:05	46506	LOHA_T1	3	4	1	6	4.73	-1.27	0	0	0	0	0	0	0	0
10/22/2024 9:05	54601	SUMM_T2	12	8	-4	0.55	0.46	-0.09	0	0	0	0	0	0	0	0
10/22/2024 9:05	54603	SUMM_T2	0	0	0	0	0	0	-0.39	-0.39	1	1	0	900	900	0
10/22/2024 9:05	54602	SUMM_T2	16	16	0	0.79	0.5	-0.29	0	0	0	0	0	0	0	0
10/22/2024 9:05	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
10/22/2024 9:08	44301	BEAV_T2	0	0	0	0	0	0	0.16	0.75	1	1	0	600	600	0
10/22/2024 9:09	44301	BEAV_T2	0	0	0	0	0	0	0.16	0.75	1	1	0	600	600	0
10/22/2024 9:10	60201	ATGL_T2	0	32	32	0	0.14	0.14	-0.18	-0.2	0	0	0	0	0	0
10/22/2024 9:12	20403	ASHF_T2	2	36	34	0.1	0.22	0.12	0.99	0.95	0	0	0	0	0	0
10/22/2024 9:12	20401	ASHF_T2	5	4	-1	0.68	0.78	0.1	0	0	0	0	0	0	0	0
10/22/2024 9:13	24201	PROV_T3	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
10/22/2024 9:13	24204	PROV_T3	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
10/22/2024 9:14	11603	CEAL_T1	1	0	-1	6.4	0	-6.4	0	0	0	0	0	0	0	0
10/22/2024 9:14	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/22/2024 9:15	20201	JERM_T1	0	0	0	0	0	0	-0.29	-0.31	2	2	0	2400	2400	0
10/22/2024 9:16	63803	HEMP_T1	3	2	-1	0.23	0.15	-0.08	0.11	0.07	0	0	0	0	0	0
10/22/2024 9:16	63804	HEMP_T1	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
10/22/2024 9:16	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/22/2024 9:19	10101	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 9:19	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 9:19	55002	NEWP_T1	2	7	5	0.35	0.61	0.26	0	0	0	0	0	0	0	0
10/22/2024 9:19	55001	NEWP_T1	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
10/22/2024 9:20	65802	RTWN_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
10/22/2024 9:21	64801	MONE_T2	1	11	10	0.1	0.18	0.08	0	0	0	0	0	0	0	0
10/22/2024 9:21	64802	MONE_T2	0	9	9	0	0.14	0.14	0.27	0.26	0	0	0	0	0	0
10/22/2024 9:24	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 9:30	12601	MACA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/22/2024 9:30	12606	MACA_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
10/22/2024 9:30	46802	HEPB_T1	1	1	0	1.6	1.6	0	-0.34	-0.35	0	0	0	0	0	0
10/22/2024 9:32	67605	WARW_T1	28	39	11	0.49	0.5	0.01	-1.05	-1.07	0	0	0	0	0	0
10/22/2024 9:33	67605	WARW_T1	28	39	11	0.49	0.5	0.01	-1.05	-1.07	0	0	0	0	0	0
10/22/2024 9:33	54501	ENOL_T2	3	4	1	0.13	0.33	0.2	0	0	0	0	0	0	0	0
10/22/2024 9:33	54506	ENOL_T2	0	0	0	0	0	0	0.44	0.52	1	1	0	600	600	0
10/22/2024 9:33	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
10/22/2024 9:33	54502	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/22/2024 9:34	24202	PROV_T4	10	3	-7	0.33	0.87	0.54	0	0	1	1	0	1200	1200	0
10/22/2024 9:36	15601	NSTR_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
10/22/2024 9:36	15603	NSTR_T2	0	1	1	0	0.2	0.2	-0.72	-0.71	0	0	0	0	0	0
10/22/2024 9:38	20401	ASHF_T2	4	6	2	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
10/22/2024 9:38	13701	SCHN_T2	0	1	1	0	0.1	0.1	-0.15	-0.13	1	1	0	600	600	0
10/22/2024 9:38	20403	ASHF_T2	33	10	-23	0.22	0.28	0.06	1.12	1.21	0	0	0	0	0	0
10/22/2024 9:38	13704	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 9:40	20401	ASHF_T2	4	6	2	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
10/22/2024 9:40	20403	ASHF_T2	33	10	-23	0.22	0.28	0.06	1.12	1.21	0	0	0	0	0	0
10/22/2024 9:42	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
10/22/2024 9:42	54502	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/22/2024 9:42	54501	ENOL_T2	3	4	1	0.13	0.33	0.2	0	0	0	0	0	0	0	0
10/22/2024 9:42	54503	ENOL_T2	0	0	0	0	0	0	-0.48	-0.45	1	1	0	600	600	0
10/22/2024 9:53	42701	AUGU_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/22/2024 9:54	67605	WARW_T1	35	36	1	0.44	0.53	0.09	0	0	0	0	0	0	0	0
10/22/2024 9:54	67401	WAKE_T2	0	1	1	0	0.4	0.4	-0.85	-0.78	0	0	0	0	0	0
10/22/2024 9:54	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.07	0	0	0	0	0	0
10/22/2024 9:55	42701	AUGU_T1	0	2	2	0	0.2	0.2	0	0	2	2	0	1800	1800	0
10/22/2024 9:56	62605	ENGL_T1	2	7	5	0.35	0.23	-0.12	-0.84	-0.76	0	0	0	0	0	0
10/22/2024 9:56	67605	WARW_T1	35	36	1	0.44	0.53	0.09	0	0	0	0	0	0	0	0
10/22/2024 9:56	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.07	0	0	0	0	0	0
10/22/2024 9:56	62607	ENGL_T1	2	5	3	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
10/22/2024 9:57	42701	AUGU_T1	0	2	2	0	0.2	0.2	0	0	2	2	0	1800	1800	0
10/22/2024 9:57	62606	ENGL_T1	0	0	0	0	0	0	-0.81	-0.89	1	1	0	900	900	0
10/22/2024 9:57	62607	ENGL_T1	2	5	3	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
10/22/2024 9:57	62605	ENGL_T1	2	7	5	0.35	0.23	-0.12	-0.84	-0.76	0	0	0	0	0	0
10/22/2024 9:58	62607	ENGL_T1	2	5	3	0.4	0.28	-0.12	-0.84	-0.83	0	0	0	0	0	0
10/22/2024 9:58	62602	ENGL_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
10/22/2024 9:58	63401	HONY_T1	0	0	0	0	0	0	0.89	1.05	0	0	0	0	0	0
10/22/2024 9:58	42701	AUGU_T1	0	2	2	0	0.2	0.2	0	0	2	2	0	1800	1800	0
10/22/2024 9:58	62605	ENGL_T1	2	7	5	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
10/22/2024 9:59	62605	ENGL_T1	2	7	5	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
10/22/2024 9:59	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.07	0	0	0	0	0	0
10/22/2024 9:59	62607	ENGL_T1	2	5	3	0.4	0.28	-0.12	-0.84	-0.83	0	0	0	0	0	0
10/22/2024 9:59	67605	WARW_T1	35	36	1	0.44	0.53	0.09	0	0	0	0	0	0	0	0
10/22/2024 10:00	67103	SPRI_T1	0	0	0	0	0	0	-0.09	-0.05	0	0	0	0	0	0
10/22/2024 10:00	66502	SMAN_T2	2	1	-1	0.25	0.5	0.25	0.19	0.2	0	0	0	0	0	0
10/22/2024 10:00	16103	BING_T2	1	1	0	6	1.5	-4.5	0	0	0	0	0	0	0	0
10/22/2024 10:00	13704	SCHN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/22/2024 10:00	58401	MORO_T1	0	0	0	0	0	0	-1.47	-1.47	0	0	0	0	0	0
10/22/2024 10:00	67105	SPRI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/22/2024 10:00	43801	SWIL_T1	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
10/22/2024 10:00	66501	SMAN_T2	2	2	0	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
10/22/2024 10:00	55001	NEWP_T1	0	0	0	0	0	0	-0.28	-0.26	0	0	0	0	0	0
10/22/2024 10:00	16102	BING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/22/2024 10:00	67503	WEWI_T2	1	1	0	9.7	9.6	-0.1	-0.27	-0.27	0	0	0	0	0	0
10/22/2024 10:00	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/22/2024 10:00	13701	SCHN_T2	1	1	0	0.1	0.2	0.1	-0.13	-0.07	1	1	0	600	600	0
10/22/2024 10:00	28102	TWLA_T2	7	12	5	0.14	0.41	0.27	0.15	0.16	0	0	0	0	0	0
10/22/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.34	0.39	0	0	0	0	0	0
10/22/2024 10:00	55002	NEWP_T1	7	3	-4	0.66	0.87	0.21	0	0	0	0	0	0	0	0
10/22/2024 10:00	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 10:00	67502	WEWI_T2	157	83	-74	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
10/22/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
10/22/2024 10:00	43802	SWIL_T1	0	0	0	0	0	0	-0.28	-0.27	1	1	0	600	600	0
10/22/2024 10:07	58401	MORO_T1	0	0	0	0	0	0	-0.49	-0.45	0	0	0	0	0	0
10/22/2024 10:07	43801	SWIL_T1	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
10/22/2024 10:07	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 10:08	66501	SMAN_T2	2	2	0	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
10/22/2024 10:08	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	-0.42	-0.29	0	0	0	0	0	0
10/22/2024 10:08	66502	SMAN_T2	2	1	-1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
10/22/2024 10:09	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/22/2024 10:09	13704	SCHN_T2	1	1	0	0.1	0.1	0	-0.39	-0.37	0	0	0	0	0	0
10/22/2024 10:09	13701	SCHN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/22/2024 10:09	66501	SMAN_T2	2	2	0	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
10/22/2024 10:09	66502	SMAN_T2	2	1	-1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
10/22/2024 10:09	42701	AUGU_T1	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/22/2024 10:10	13704	SCHN_T2	1	1	0	0.1	0.1	0	-0.39	-0.37	0	0	0	0	0	0
10/22/2024 10:10	13701	SCHN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/22/2024 10:11	42701	AUGU_T1	1	2	1	0.3	0.4	0.1	0	0	2	2	0	1800	1800	0
10/22/2024 10:12	46004	BERW_T2	0	1	1	0	0	0	-0.03	0	0	0	0	0	0	0
10/22/2024 10:13	42701	AUGU_T1	1	2	1	0.3	0.4	0.1	0	0	2	2	0	1800	1800	0
10/22/2024 10:14	50201	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
10/22/2024 10:14	50107	HARR_T3	1	1	0	7.8	7.9	0.1	0	0	0	0	0	0	0	0
10/22/2024 10:14	50103	HARR_T3	2	2	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
10/22/2024 10:14	50105	HARR_T3	6	6	0	5.62	5.67	0.05	0	0	0	0	0	0	0	0
10/22/2024 10:15	25402	LAHA_T2	0	0	0	0	0	0	-0.52	-0.46	0	0	0	0	0	0
10/22/2024 10:15	63501	HEID_TBK1-2	1	15	14	0.6	0.35	-0.25	0.59	0.62	0	0	0	0	0	0
10/22/2024 10:19	50105	HARR_T3	6	6	0	5.68	5.7	0.02	0	0	0	0	0	0	0	0
10/22/2024 10:19	63501	HEID_TBK1-2	1	15	14	0.6	0.35	-0.25	0.59	0.62	0	0	0	0	0	0
10/22/2024 10:19	50201	HARR_T3	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
10/22/2024 10:19	50107	HARR_T3	1	1	0	7.9	8.9	1	0	0	0	0	0	0	0	0
10/22/2024 10:19	50103	HARR_T3	2	2	0	0.65	0.8	0.15	0	0	0	0	0	0	0	0
10/22/2024 10:19	65503	MOJO_T2	0	0	0	0	0	0	-1.01	-1.01	1	1	0	900	900	0
10/22/2024 10:19	44701	MUNC_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/22/2024 10:19	44703	MUNC_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/22/2024 10:20	66502	SMAN_T2	1	2	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
10/22/2024 10:20	66504	SMAN_T2	0	1	1	0	0.5	0.5	-0.42	-0.29	0	0	0	0	0	0
10/22/2024 10:20	66501	SMAN_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/22/2024 10:21	15203	SFAR_T2	4	9	5	0.5	0.41	-0.09	-1.29	-1.26	0	0	0	0	0	0
10/22/2024 10:21	57403	SPAN_T1	7	38	31	0.19	0.31	0.12	-0.08	-0.08	0	0	0	0	0	0
10/22/2024 10:21	57401	SPAN_T1	2	3	1	0.85	1.27	0.42	0	0	0	0	0	0	0	0
10/22/2024 10:21	15204	SFAR_T2	1	1	0	0.1	0.3	0.2	0.18	0.16	0	0	0	0	0	0
10/22/2024 10:21	24202	PROV_T4	1	1	0	2.1	2.3	0.2	0	0	1	1	0	1200	1200	0
10/22/2024 10:22	15204	SFAR_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/22/2024 10:22	15203	SFAR_T2	4	9	5	0.5	0.41	-0.09	-2.58	-2.53	0	0	0	0	0	0
10/22/2024 10:23	15203	SFAR_T2	4	9	5	0.5	0.41	-0.09	-3.87	-3.79	0	0	0	0	0	0
10/22/2024 10:23	43802	SWIL_T1	0	0	0	0	0	0	-0.28	-0.26	1	1	0	600	600	0
10/22/2024 10:23	66501	SMAN_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/22/2024 10:23	66502	SMAN_T2	1	2	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
10/22/2024 10:23	15204	SFAR_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/22/2024 10:23	43801	SWIL_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
10/22/2024 10:23	66504	SMAN_T2	0	1	1	0	0.5	0.5	-0.59	-0.67	0	0	0	0	0	0
10/22/2024 10:25	15203	SFAR_T2	4	9	5	0.5	0.41	-0.09	-2.58	-2.53	0	0	0	0	0	0
10/22/2024 10:25	15204	SFAR_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/22/2024 10:28	13502	MCMI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/22/2024 10:29	64602	LEOL_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
10/22/2024 10:29	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 10:29	21206	ECAR_T2	1	1	0	6.9	6.9	0	0.43	0.38	0	0	0	0	0	0
10/22/2024 10:30	24702	FLND_T2	0	2	2	0	0.2	0.2	0.27	-0.03	1	1	0	1200	1200	0
10/22/2024 10:33	17002	RIRO_T2	2	3	1	0.55	0.6	0.05	0.61	0.57	0	0	0	0	0	0
10/22/2024 10:34	46504	LOHA_T1	3	3	0	0.83	0.9	0.07	0	0	0	0	0	0	0	0
10/22/2024 10:34	46506	LOHA_T1	3	3	0	6.17	6.2	0.03	0	0	0	0	0	0	0	0
10/22/2024 10:34	46503	LOHA_T1	0	0	0	0	0	0	-1.26	-1.24	0	0	0	0	0	0
10/22/2024 10:35	43304	WATS_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
10/22/2024 10:37	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 10:38	54602	SUMM_T2	16	16	0	0.44	0.53	0.09	0	0	0	0	0	0	0	0
10/22/2024 10:38	54601	SUMM_T2	10	10	0	0.4	0.6	0.2	-9.56	-9.52	3	3	0	3600	3600	0
10/22/2024 10:39	15703	TANN_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
10/22/2024 10:39	60201	ATGL_T2	1	1	0	0.2	0.5	0.3	0	-0.04	0	0	0	0	0	0
10/22/2024 10:39	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
10/22/2024 10:39	43402	BENT_T1	0	2	2	0	0.2	0.2	-0.43	-0.43	1	1	0	600	600	0
10/22/2024 10:39	43301	WATS_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
10/22/2024 10:39	46001	BERW_T1	0	1	1	0	0.2	0.2	0.89	0.84	0	0	0	0	0	0
10/22/2024 10:39	54601	SUMM_T2	10	10	0	0.4	0.6	0.2	-3.19	-3.17	1	1	0	1200	1200	0
10/22/2024 10:39	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
10/22/2024 10:39	67605	WARW_T1	9	14	5	0.42	0.35	-0.07	-1	-0.97	0	0	0	0	0	0
10/22/2024 10:39	54602	SUMM_T2	16	16	0	0.44	0.53	0.09	0	0	0	0	0	0	0	0
10/22/2024 10:40	43402	BENT_T1	0	2	2	0	0.2	0.2	-0.43	-0.43	1	1	0	600	600	0
10/22/2024 10:40	60801	BUCK_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
10/22/2024 10:40	60803	BUCK_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
10/22/2024 10:41	48902	FOSP_T2	0	0	0	0	0	0	0.56	0.95	0	0	0	0	0	0
10/22/2024 10:43	67605	WARW_T1	9	14	5	0.42	0.35	-0.07	-1	-0.97	0	0	0	0	0	0
10/22/2024 10:43	67804	WLAN_T1	3	264	261	0.27	0.18	-0.09	0	0	0	0	0	0	0	0
10/22/2024 10:43	67803	WLAN_T1	2	487	485	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/22/2024 10:43	67802	WLAN_T1	0	22	22	0	0.2	0.2	0	0	0	0	0	0	0	0
10/22/2024 10:43	67801	WLAN_T1	0	22	22	0	0.15	0.15	0	0	0	0	0	0	0	0
10/22/2024 10:43	67805	WLAN_T1	0	244	244	0	0.21	0.21	-0.8	-0.83	0	0	0	0	0	0
10/22/2024 10:44	45902	AUBU_T1	0	32	32	0	0	0	0.53	-0.04	1	1	0	600	600	0
10/22/2024 10:44	63801	HEMP_T1	0	1	1	0	0.4	0.4	0.16	0.3	0	0	0	0	0	0
10/22/2024 10:44	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 10:44	63803	HEMP_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/22/2024 10:44	63501	HEID_TBK1-2	1	15	14	0.3	4.99	4.69	0.65	0.69	0	0	0	0	0	0
10/22/2024 10:44	63804	HEMP_T1	1	1	0	6.1	5.8	-0.3	0	0	0	0	0	0	0	0
10/22/2024 10:45	46803	HEPB_T2	3	3	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
10/22/2024 10:45	46801	HEPB_T2	2	2	0	1.5	1.3	-0.2	0.49	0.52	0	0	0	0	0	0
10/22/2024 10:45	63501	HEID_TBK1-2	2	1	-1	0.35	1.2	0.85	0.65	0.69	0	0	0	0	0	0
10/22/2024 10:45	48901	FOSP_T2	0	0	0	0	0	0	0	-0.05	1	1	0	600	600	0
10/22/2024 10:47	63501	HEID_TBK1-2	2	1	-1	0.35	1.2	0.85	0.65	0.69	0	0	0	0	0	0
10/22/2024 10:48	46803	HEPB_T2	3	3	0	0.23	0.3	0.07	0.46	0.42	0	0	0	0	0	0
10/22/2024 10:48	13503	MCMI_T2	1	2	1	0.5	1	0.5	-0.01	-0.01	0	0	0	0	0	0
10/22/2024 10:48	46801	HEPB_T2	2	2	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
10/22/2024 10:48	65503	MOJO_T2	0	0	0	0	0	0	-0.91	-0.82	1	1	0	900	900	0
10/22/2024 10:49	13503	MCMI_T2	1	2	1	0.5	1	0.5	-0.01	-0.01	0	0	0	0	0	0
10/22/2024 10:49	65601	QVIL_T2	1	1	0	1	0.9	-0.1	-1.07	-1.06	1	1	0	900	900	0
10/22/2024 10:50	64904	MILL_T1	1	1	0	0.2	0.1	-0.1	0.47	0.45	0	0	0	0	0	0
10/22/2024 10:50	57402	SPAN_T2	0	0	0	0	0	0	-1.24	-1.23	0	0	0	0	0	0
10/22/2024 10:50	64901	MILL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/22/2024 10:51	58402	MORO_T1	1	0	-1	0.3	0	-0.3	-0.15	0.47	2	1	-1	1500	900	-600
10/22/2024 10:52	65601	QVIL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
10/22/2024 10:52	57203	ROSS_T1	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
10/22/2024 10:52	57205	ROSS_T1	2	2	0	0.45	0.65	0.2	0	0	0	0	0	0	0	0
10/22/2024 10:54	57203	ROSS_T1	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
10/22/2024 10:54	57205	ROSS_T1	2	2	0	0.45	0.65	0.2	0	0	0	0	0	0	0	0
10/22/2024 10:56	20401	ASHF_T2	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0	0
10/22/2024 10:56	20403	ASHF_T2	3	10	7	0.6	0.33	-0.27	1.02	1.15	0	0	0	0	0	0
10/22/2024 10:57	62607	ENGL_T1	2	1	-1	0.45	0.6	0.15	-0.84	-0.81	0	0	0	0	0	0
10/22/2024 10:57	20403	ASHF_T2	3	10	7	0.6	0.33	-0.27	1.02	1.15	0	0	0	0	0	0
10/22/2024 10:57	62605	ENGL_T1	4	2	-2	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
10/22/2024 10:57	20401	ASHF_T2	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0	0
10/22/2024 10:59	62601	ENGL_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
10/22/2024 10:59	62607	ENGL_T1	2	1	-1	0.45	0.6	0.15	0	0	0	0	0	0	0	0
10/22/2024 10:59	62604	ENGL_T1	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
10/22/2024 10:59	62605	ENGL_T1	4	2	-2	0.28	0.2	-0.08	-2.4	-2.28	0	0	0	0	0	0
10/22/2024 11:00	62607	ENGL_T1	1	1	0	0.6	0.4	-0.2	-1.68	-1.62	0	0	0	0	0	0
10/22/2024 11:00	62606	ENGL_T1	0	0	0	0	0	0	-0.75	-0.69	1	1	0	900	900	0
10/22/2024 11:00	62605	ENGL_T1	2	1	-1	0.2	0.3	0.1	-0.8	-0.76	0	0	0	0	0	0
10/22/2024 11:01	62602	ENGL_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
10/22/2024 11:01	62607	ENGL_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
10/22/2024 11:01	62605	ENGL_T1	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/22/2024 11:02	62607	ENGL_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
10/22/2024 11:02	62605	ENGL_T1	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/22/2024 11:02	62606	ENGL_T1	0	0	0	0	0	0	-0.75	-0.69	1	1	0	900	900	0
10/22/2024 11:05	15601	NSTR_T2	2	3	1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
10/22/2024 11:05	15603	NSTR_T2	1	1	0	0.5	0.7	0.2	-0.67	-0.67	0	0	0	0	0	0
10/22/2024 11:06	15702	TANN_T2	0	0	0	0	0	0	0.38	0.43	0	0	0	0	0	0
10/22/2024 11:06	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
10/22/2024 11:09	66501	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/22/2024 11:09	66502	SMAN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/22/2024 11:09	66505	SMAN_T2	0	0	0	0	0	0	0.76	0.85	2	2	0	1100	1100	0
10/22/2024 11:09	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.43	0	0	0	0	0	0
10/22/2024 11:09	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
10/22/2024 11:09	66504	SMAN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/22/2024 11:12	15203	SFAR_T2	7	9	2	0.43	0.47	0.04	-1.23	-1.23	0	0	0	0	0	0
10/22/2024 11:12	15204	SFAR_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
10/22/2024 11:15	64305	LINC_T1	0	0	0	0	0	0	0.02	-0.06	0	0	0	0	0	0
10/22/2024 11:17	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 11:21	14802	TREI_T2	2	5	3	0.3	0.16	-0.14	0	0	0	0	0	0	0	0
10/22/2024 11:21	14801	TREI_T2	8	11	3	0.31	0.38	0.07	0.33	0.33	0	0	0	0	0	0
10/22/2024 11:21	67503	WEWI_T2	1	1	0	9.7	9.1	-0.6	-0.26	-0.26	0	0	0	0	0	0
10/22/2024 11:21	67502	WEWI_T2	10	3	-7	0.35	0.73	0.38	0	0	0	0	0	0	0	0
10/22/2024 11:22	67502	WEWI_T2	10	3	-7	0.35	0.73	0.38	-0.14	-0.13	0	0	0	0	0	0
10/22/2024 11:22	67503	WEWI_T2	1	1	0	9.7	9.1	-0.6	0	0	0	0	0	0	0	0
10/22/2024 11:23	43304	WATS_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
10/22/2024 11:23	64801	MONE_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/22/2024 11:23	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 11:23	64802	MONE_T2	2	8	6	0.3	0.44	0.14	0.31	0.19	0	0	0	0	0	0
10/22/2024 11:24	66504	SMAN_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/22/2024 11:24	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 11:24	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 11:24	66502	SMAN_T2	1	1	0	0.2	0.4	0.2	0.24	0.22	0	0	0	0	0	0
10/22/2024 11:26	42701	AUGU_T1	0	1	1	0	0.5	0.5	0	0	2	2	0	1800	1800	0
10/22/2024 11:30	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/22/2024 11:33	45902	AUBU_T1	1	2	1	0.1	0.55	0.45	-0.04	-0.01	1	1	0	600	600	0
10/22/2024 11:34	13503	MCMI_T2	1	1	0	0.6	0.9	0.3	-0.01	-0.01	0	0	0	0	0	0
10/22/2024 11:34	45902	AUBU_T1	1	2	1	0.1	0.55	0.45	-0.04	-0.01	1	1	0	600	600	0
10/22/2024 11:37	55105	WERT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 11:37	55101	WERT_T1	0	0	0	0	0	0	-0.59	-1.09	1	1	0	600	600	0
10/22/2024 11:40	55105	WERT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 11:40	55101	WERT_T1	0	0	0	0	0	0	-0.59	-1.09	1	1	0	600	600	0
10/22/2024 11:42	46503	LOHA_T1	0	1	1	0	0.5	0.5	-0.62	-0.62	0	0	0	0	0	0
10/22/2024 11:42	46506	LOHA_T1	4	4	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
10/22/2024 11:42	46504	LOHA_T1	4	23	19	0.88	0.24	-0.64	0	0	0	0	0	0	0	0
10/22/2024 11:43	24101	EHAZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
10/22/2024 11:43	24105	EHAZ_T1	4	4	0	6.55	6.33	-0.22	0	0	0	0	0	0	0	0
10/22/2024 11:43	43802	SWIL_T1	0	0	0	0	0	0	-0.25	-0.26	1	1	0	600	600	0
10/22/2024 11:43	54504	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/22/2024 11:43	24104	EHAZ_T1	0	0	0	0	0	0	-0.68	-0.67	1	1	0	1200	1200	0
10/22/2024 11:43	43801	SWIL_T1	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
10/22/2024 11:43	54502	ENOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/22/2024 11:43	54505	ENOL_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
10/22/2024 11:43	54501	ENOL_T2	3	3	0	0.17	0.23	0.06	-0.56	-0.56	1	1	0	600	600	0
10/22/2024 11:44	62607	ENGL_T1	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
10/22/2024 11:44	62605	ENGL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/22/2024 11:46	50105	HARR_T3	6	6	0	6.17	6.15	-0.02	0	0	0	0	0	0	0	0
10/22/2024 11:46	50201	HARR_T3	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 11:46	50107	HARR_T3	1	1	0	8.5	8.4	-0.1	0	0	0	0	0	0	0	0
10/22/2024 11:46	50103	HARR_T3	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/22/2024 11:53	57403	SPAN_T1	15	15	0	0.25	0.29	0.04	-0.07	-0.04	0	0	0	0	0	0
10/22/2024 11:53	57401	SPAN_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/22/2024 11:53	42701	AUGU_T1	1	1	0	0.5	0.5	0	0	0	2	2	0	1800	1800	0
10/22/2024 11:55	14802	TREI_T2	3	10	7	0.2	0.16	-0.04	0.46	0.46	0	0	0	0	0	0
10/22/2024 11:55	14801	TREI_T2	9	9	0	0.38	0.39	0.01	0	0	0	0	0	0	0	0
10/22/2024 11:56	67602	WARW_T2	0	1	1	0	0.3	0.3	1.43	1.44	1	1	0	300	300	0
10/22/2024 11:58	67602	WARW_T2	0	1	1	0	0.3	0.3	1.43	1.44	1	1	0	300	300	0
10/22/2024 11:58	40902	JESH_T1	2	4	2	0.15	0.23	0.08	-0.38	-0.5	0	0	0	0	0	0
10/22/2024 11:58	46802	HEPB_T1	6	9	3	0.62	0.48	-0.14	-0.33	-0.34	0	0	0	0	0	0
10/22/2024 11:59	67602	WARW_T2	0	1	1	0	0.3	0.3	1.43	1.44	1	1	0	300	300	0
10/22/2024 12:00	46802	HEPB_T1	7	9	2	0.54	0.44	-0.1	-0.33	-0.34	0	0	0	0	0	0
10/22/2024 12:01	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 12:01	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 12:01	40902	JESH_T1	3	3	0	0.27	0.13	-0.14	-0.75	-1	0	0	0	0	0	0
10/22/2024 12:02	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 12:02	40902	JESH_T1	3	3	0	0.27	0.13	-0.14	-0.38	-0.5	0	0	0	0	0	0
10/22/2024 12:03	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 12:04	40902	JESH_T1	3	3	0	0.27	0.13	-0.14	-0.38	-0.5	0	0	0	0	0	0
10/22/2024 12:04	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 12:05	67201	TEHI_T1	2	0	-2	0.15	0	-0.15	0.59	0.96	2	2	0	1500	1500	0
10/22/2024 12:05	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 12:08	42701	AUGU_T1	1	0	-1	0.5	0	-0.5	0	0	2	2	0	1800	1800	0
10/22/2024 12:10	44301	BEAV_T2	0	0	0	0	0	0	0.32	1.29	2	2	0	1200	1200	0
10/22/2024 12:10	44302	BEAV_T2	3	3	0	0.27	0.57	0.3	0.25	0.24	0	0	0	0	0	0
10/22/2024 12:13	44302	BEAV_T2	3	3	0	0.27	0.57	0.3	0	0	0	0	0	0	0	0
10/22/2024 12:13	44301	BEAV_T2	0	0	0	0	0	0	0.16	0.65	1	1	0	600	600	0
10/22/2024 12:13	66703	STRA_T1	0	0	0	0	0	0	-0.1	-0.05	0	0	0	0	0	0
10/22/2024 12:13	66701	STRA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/22/2024 12:26	43304	WATS_T2	0	1	1	0	0.5	0.5	-0.47	-0.43	0	0	0	0	0	0
10/22/2024 12:27	43304	WATS_T2	0	1	1	0	0.5	0.5	-0.47	-0.43	0	0	0	0	0	0
10/22/2024 12:29	63602	LETO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/22/2024 12:29	48902	FOSP_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/22/2024 12:29	63601	LETO_T1	1	2	1	0.1	0.1	0	0.46	0.8	4	4	0	4200	4200	0
10/22/2024 12:29	48901	FOSP_T2	0	1	1	0	0.3	0.3	-0.01	-0.02	1	1	0	600	600	0
10/22/2024 12:30	57101	SPHI_T2	5	5	0	0.86	0.7	-0.16	0	0	0	0	0	0	0	0
10/22/2024 12:30	48901	FOSP_T2	0	1	1	0	0.2	0.2	-0.02	-0.04	2	2	0	1200	1200	0
10/22/2024 12:30	48902	FOSP_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/22/2024 12:30	57104	SPHI_T2	4	4	0	4.83	2.2	-2.63	-0.39	-0.38	0	0	0	0	0	0
10/22/2024 12:30	57106	SPHI_T2	3	3	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/22/2024 12:31	42001	MNVL_T2	250	244	-6	0.78	0.77	-0.01	-0.39	-0.37	0	0	0	0	0	0
10/22/2024 12:31	42002	MNVL_T2	1	1	0	6.6	7.1	0.5	0	0	0	0	0	0	0	0
10/22/2024 12:34	42002	MNVL_T2	1	1	0	6.6	7.1	0.5	0	0	0	0	0	0	0	0
10/22/2024 12:34	42001	MNVL_T2	250	244	-6	0.78	0.77	-0.01	-0.39	-0.37	0	0	0	0	0	0
10/22/2024 12:38	46002	BERW_T2	0	0	0	0	0	0	-0.75	-0.7	1	1	0	900	900	0
10/22/2024 12:44	46004	BERW_T2	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
10/22/2024 12:47	42902	MIDD_T2	3	4	1	0.2	0.35	0.15	0.13	-0.25	0	1	1	0	600	600
10/22/2024 12:48	42902	MIDD_T2	3	4	1	0.2	0.35	0.15	0.13	-0.25	0	1	1	0	600	600
10/22/2024 12:51	14802	TREI_T2	5	3	-2	0.18	0.17	-0.01	0.47	0.5	0	0	0	0	0	0
10/22/2024 12:51	14801	TREI_T2	10	9	-1	0.41	0.41	0	0	0	0	0	0	0	0	0
10/22/2024 12:52	14802	TREI_T2	5	3	-2	0.18	0.17	-0.01	0.47	0.5	0	0	0	0	0	0
10/22/2024 12:52	14801	TREI_T2	10	9	-1	0.41	0.41	0	0	0	0	0	0	0	0	0
10/22/2024 12:55	45501	DERR_T2	1	2	1	0.5	1	0.5	0.9	0.98	2	2	0	1800	1800	0
10/22/2024 12:57	44502	HAMI_T2	1	1	0	3.1	3.6	0.5	0	0	0	0	0	0	0	0
10/22/2024 12:57	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 12:58	45501	DERR_T2	1	2	1	0.5	1	0.5	0.9	0.98	2	2	0	1800	1800	0
10/22/2024 13:00	44505	HAMI_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
10/22/2024 13:00	44502	HAMI_T2	1	1	0	3.4	3.6	0.2	0	0	0	0	0	0	0	0
10/22/2024 13:01	63501	HEID_TBK1-2	49	39	-10	0.44	0.39	-0.05	-0.37	-0.2	2	2	0	1800	1800	0
10/22/2024 13:02	64704	LITI_T1	1	0	-1	0.1	0	-0.1	0.14	0.16	1	1	0	600	600	0
10/22/2024 13:02	63501	HEID_TBK1-2	49	39	-10	0.44	0.39	-0.05	-0.18	-0.1	1	1	0	900	900	0
10/22/2024 13:03	63501	HEID_TBK1-2	49	39	-10	0.44	0.39	-0.05	-0.18	-0.1	1	1	0	900	900	0
10/22/2024 13:04	64704	LITI_T1	1	0	-1	0.1	0	-0.1	0.14	0.16	1	1	0	600	600	0
10/22/2024 13:05	47103	MARL_T2	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
10/22/2024 13:11	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 13:11	45501	DERR_T2	1	1	0	1	0.2	-0.8	0.98	1.06	2	2	0	1800	1800	0
10/22/2024 13:14	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 13:14	45501	DERR_T2	1	1	0	1	0.2	-0.8	0.98	1.06	2	2	0	1800	1800	0
10/22/2024 13:15	13502	MCMI_T1	2	4	2	0.55	0.3	-0.25	-0.16	-0.15	0	0	0	0	0	0
10/22/2024 13:15	14204	EALL_T2	0	0	0	0	0	0	-0.52	-0.4	0	0	0	0	0	0
10/22/2024 13:16	13501	MCMI_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
10/22/2024 13:16	13502	MCMI_T1	2	4	2	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
10/22/2024 13:17	13503	MCMI_T2	1	1	0	1.3	1.5	0.2	-0.01	-0.01	0	0	0	0	0	0
10/22/2024 13:21	42902	MIDD_T2	3	4	1	0.33	0.35	0.02	-0.33	-0.34	1	1	0	600	600	0
10/22/2024 13:23	42701	AUGU_T1	5	3	-2	0.24	0.23	-0.01	0	0	2	2	0	1800	1800	0
10/22/2024 13:23	14802	TREI_T2	3	1	-2	0.1	0.1	0	0.5	0.48	0	0	0	0	0	0
10/22/2024 13:23	14801	TREI_T2	6	10	4	0.43	0.31	-0.12	0	0	0	0	0	0	0	0
10/22/2024 13:24	42701	AUGU_T1	5	3	-2	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
10/22/2024 13:29	67001	STHI_T2	10	9	-1	0.28	0.34	0.06	0.36	0.34	0	0	0	0	0	0
10/22/2024 13:29	67002	STHI_T2	20	20	0	0.27	0.27	0	0.81	0.74	0	0	0	0	0	0
10/22/2024 13:30	67002	STHI_T2	18	17	-1	0.24	0.3	0.06	1.62	1.48	0	0	0	0	0	0
10/22/2024 13:30	67001	STHI_T2	8	9	1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
10/22/2024 13:31	67002	STHI_T2	18	17	-1	0.24	0.3	0.06	0.81	0.74	0	0	0	0	0	0
10/22/2024 13:31	14801	TREI_T2	9	8	-1	0.32	0.29	-0.03	0	0	0	0	0	0	0	0
10/22/2024 13:31	14802	TREI_T2	0	1	1	0	0.1	0.1	0.5	0.48	0	0	0	0	0	0
10/22/2024 13:31	67001	STHI_T2	8	9	1	0.35	0.3	-0.05	0.12	0.11	0	0	0	0	0	0
10/22/2024 13:32	67001	STHI_T2	8	9	1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
10/22/2024 13:32	67002	STHI_T2	18	17	-1	0.24	0.3	0.06	3.23	2.97	0	0	0	0	0	0
10/22/2024 13:33	67001	STHI_T2	8	9	1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
10/22/2024 13:33	67002	STHI_T2	18	17	-1	0.24	0.3	0.06	1.62	1.48	0	0	0	0	0	0
10/22/2024 13:41	45502	DERR_T2	1	2	1	0.2	0.25	0.05	0.18	0.18	1	1	0	300	300	0
10/22/2024 13:41	10805	CHHI_T2	1	1	0	8.3	8.5	0.2	-1.09	-1.08	1	1	0	1200	1200	0
10/22/2024 13:41	45501	DERR_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/22/2024 13:42	10801	CHHI_T1	11	7	-4	0.62	0.67	0.05	-1.3	-1.33	2	2	0	1500	1500	0
10/22/2024 13:46	48901	FOSP_T2	1	1	0	0.2	0.1	-0.1	-0.01	-0.02	1	1	0	600	600	0
10/22/2024 13:46	48902	FOSP_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/22/2024 13:46	45802	HEGI_T2	1	2	1	0.5	0.1	-0.4	1.55	1.1	2	2	0	1800	1800	0
10/22/2024 13:47	48902	FOSP_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/22/2024 13:47	48901	FOSP_T2	1	1	0	0.2	0.1	-0.1	-0.01	-0.02	1	1	0	600	600	0
10/22/2024 13:57	67603	WARW_T1	1	2	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/22/2024 13:57	67604	WARW_T1	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
10/22/2024 13:57	67605	WARW_T1	18	19	1	0.58	0.54	-0.04	0	0	0	0	0	0	0	0
10/22/2024 14:00	67604	WARW_T1	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
10/22/2024 14:00	67605	WARW_T1	18	28	10	0.56	0.46	-0.1	0	0	0	0	0	0	0	0
10/22/2024 14:00	67603	WARW_T1	2	1	-1	0.5	0.5	0	0	0	0	0	0	0	0	0
10/22/2024 14:05	47403	PENS_T1	3	8	5	0.53	0.91	0.38	0	0	0	0	0	0	0	0
10/22/2024 14:05	47402	PENS_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
10/22/2024 14:05	47401	PENS_T1	2	4	2	0.7	1.15	0.45	0.58	-0.66	0	0	0	0	0	0
10/22/2024 14:09	60701	BREC_T1	0	1	1	0	0.1	0.1	-0.23	0.01	2	2	0	1200	1200	0
10/22/2024 14:10	60701	BREC_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 14:11	60701	BREC_T1	0	1	1	0	0.1	0.1	-0.23	0.01	2	2	0	1200	1200	0
10/22/2024 14:16	20201	JERM_T1	0	0	0	0	0	0	0.85	0.67	2	2	0	2400	2400	0
10/22/2024 14:25	11603	CEAL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 14:25	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/22/2024 14:25	42701	AUGU_T1	2	1	-1	0.2	0.6	0.4	0	0	2	2	0	1800	1800	0
10/22/2024 14:26	44301	BEAV_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/22/2024 14:26	44302	BEAV_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
10/22/2024 14:27	42701	AUGU_T1	2	1	-1	0.2	0.6	0.4	0	0	2	2	0	1800	1800	0
10/22/2024 14:33	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/22/2024 14:34	13503	MCMI_T2	1	1	0	0.9	0.7	-0.2	-0.01	-0.01	0	0	0	0	0	0
10/22/2024 14:37	66502	SMAN_T2	4	4	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
10/22/2024 14:37	66504	SMAN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/22/2024 14:37	66501	SMAN_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
10/22/2024 14:37	66505	SMAN_T2	0	0	0	0	0	0	0.59	0.72	2	2	0	1500	1500	0
10/22/2024 14:39	66505	SMAN_T2	0	0	0	0	0	0	0.59	0.72	2	2	0	1500	1500	0
10/22/2024 14:39	66504	SMAN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/22/2024 14:39	66502	SMAN_T2	4	4	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
10/22/2024 14:39	66501	SMAN_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
10/22/2024 14:53	67201	TEHI_T1	6	5	-1	0.38	0.46	0.08	0.5	0.31	1	1	0	900	900	0
10/22/2024 14:54	50107	HARR_T3	1	1	0	8.5	8.1	-0.4	0	0	0	0	0	0	0	0
10/22/2024 14:54	50103	HARR_T3	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
10/22/2024 14:54	50105	HARR_T3	6	6	0	6.28	6.25	-0.03	0	0	0	0	0	0	0	0
10/22/2024 14:55	44505	HAMI_T2	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
10/22/2024 14:55	46504	LOHA_T1	3	3	0	0.8	0.83	0.03	0	0	0	0	0	0	0	0
10/22/2024 14:55	46501	LOHA_T1	0	0	0	0	0	0	0.09	0.03	1	1	0	1200	1200	0
10/22/2024 14:55	46506	LOHA_T1	3	3	0	6.03	6.47	0.44	0	0	0	0	0	0	0	0
10/22/2024 14:55	44502	HAMI_T2	1	1	0	3.7	3.6	-0.1	0	0	0	0	0	0	0	0
10/22/2024 14:56	67201	TEHI_T1	6	5	-1	0.38	0.46	0.08	0	0	0	0	0	0	0	0
10/22/2024 14:56	63602	LETO_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/22/2024 14:56	67203	TEHI_T1	0	0	0	0	0	0	2.35	2.46	3	2	-1	2100	1500	-600
10/22/2024 14:56	14204	EALL_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
10/22/2024 14:56	63601	LETO_T1	2	0	-2	0.1	0	-0.1	0.68	0.72	2	2	0	2100	2100	0
10/22/2024 14:57	14201	EALL_T1	0	0	0	0	0	0	0.9	0.88	0	0	0	0	0	0
10/22/2024 14:57	41301	FISH_T1	3	3	0	1.37	1.37	0	0.32	0.31	0	0	0	0	0	0
10/22/2024 14:58	14204	EALL_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
10/22/2024 14:58	61501	EPET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 14:58	67603	WARW_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
10/22/2024 14:58	67604	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/22/2024 14:58	24702	FLND_T2	2	1	-1	0.35	0.2	-0.15	0.31	0.3	1	1	0	1200	1200	0
10/22/2024 14:58	67605	WARW_T1	35	24	-11	0.44	0.39	-0.05	-0.91	-0.89	0	0	0	0	0	0
10/22/2024 14:59	61501	EPET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 14:59	14205	EALL_T2	0	0	0	0	0	0	-0.08	-0.11	0	0	0	0	0	0
10/22/2024 14:59	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 15:00	41301	FISH_T1	0	3	3	0	1.27	1.27	0	0	0	0	0	0	0	0
10/22/2024 15:00	41303	FISH_T1	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
10/22/2024 15:01	41301	FISH_T1	3	3	0	1.37	1.3	-0.07	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/22/2024 15:01	52004	LING_T2	3	4	1	4.13	3.03	-1.1	0.4	0.32	0	0	0	0	0	0
10/22/2024 15:02	64202	KINZ_T1	2	3	1	0.25	0.43	0.18	0	0	0	0	0	0	0	0
10/22/2024 15:02	64204	KINZ_T1	1	4	3	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
10/22/2024 15:02	64201	KINZ_T1	0	0	0	0	0	0	-1.04	-1	4	4	0	2100	2100	0
10/22/2024 15:02	57303	MOAL_T2	1	1	0	8.1	8	-0.1	0	0	0	0	0	0	0	0
10/22/2024 15:02	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.91	2	2	0	1800	1800	0
10/22/2024 15:02	52001	LING_T1	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
10/22/2024 15:02	57304	MOAL_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
10/22/2024 15:02	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 15:03	50506	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 15:03	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 15:03	50501	MECH_T1	4	5	1	1.08	1.05	-0.03	-0.51	-0.37	0	0	0	0	0	0
10/22/2024 15:03	50502	MECH_T1	1	1	0	2.1	1.9	-0.2	0	0	0	0	0	0	0	0
10/22/2024 15:03	54505	ENOL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
10/22/2024 15:03	54506	ENOL_T2	0	0	0	0	0	0	0.7	0.8	1	1	0	600	600	0
10/22/2024 15:03	65205	PRIN_T1	2	1	-1	1.05	1.2	0.15	0	0	0	0	0	0	0	0
10/22/2024 15:04	57303	MOAL_T2	1	1	0	8.1	8	-0.1	0	0	0	0	0	0	0	0
10/22/2024 15:04	57304	MOAL_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
10/22/2024 15:05	65205	PRIN_T1	2	1	-1	1.05	1.2	0.15	0	0	0	0	0	0	0	0
10/22/2024 15:07	40101	HUNT_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
10/22/2024 15:07	67401	WAKE_T2	1	2	1	0.3	0.2	-0.1	-0.83	-0.83	0	0	0	0	0	0
10/22/2024 15:08	65207	PRIN_T4	15	9	-6	0.17	0.2	0.03	0	0	0	0	0	0	0	0
10/22/2024 15:08	67401	WAKE_T2	1	2	1	0.3	0.2	-0.1	-0.83	-0.83	0	0	0	0	0	0
10/22/2024 15:08	65206	PRIN_T4	0	1	1	0	5	5	0	0	0	0	0	0	0	0
10/22/2024 15:08	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 15:08	49803	UNIV_T1	1	1	0	5.1	5.1	0	-0.93	-0.93	0	0	0	0	0	0
10/22/2024 15:09	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 15:09	50103	HARR_T3	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/22/2024 15:09	50107	HARR_T3	1	1	0	8.1	7.7	-0.4	0	0	0	0	0	0	0	0
10/22/2024 15:09	50105	HARR_T3	6	6	0	6.3	6.28	-0.02	0	0	0	0	0	0	0	0
10/22/2024 15:10	50107	HARR_T3	1	1	0	8.1	7.7	-0.4	0	0	0	0	0	0	0	0
10/22/2024 15:10	40802	EXCH_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/22/2024 15:10	40801	EXCH_T2	0	0	0	0	0	0	-0.36	-0.3	1	1	0	1200	1200	0
10/22/2024 15:10	50105	HARR_T3	6	6	0	6.3	6.28	-0.02	0	0	0	0	0	0	0	0
10/22/2024 15:10	50103	HARR_T3	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/22/2024 15:11	67402	WAKE_T2	0	0	0	0	0	0	-0.26	-0.29	1	1	0	600	600	0
10/22/2024 15:11	67401	WAKE_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/22/2024 15:12	62105	ELAN_T1	0	0	0	0	0	0	0.42	0.46	0	0	0	0	0	0
10/22/2024 15:12	62102	ELAN_T1	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
10/22/2024 15:13	62105	ELAN_T1	0	0	0	0	0	0	0.42	0.46	0	0	0	0	0	0
10/22/2024 15:13	50103	HARR_T3	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/22/2024 15:13	50201	HARR_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 15:13	62102	ELAN_T1	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
10/22/2024 15:13	50107	HARR_T3	1	1	0	8.1	7.7	-0.4	0	0	0	0	0	0	0	0
10/22/2024 15:13	50105	HARR_T3	6	6	0	6.3	6.28	-0.02	0	0	0	0	0	0	0	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:14	64204	KINZ_T1	1	4	3	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
10/22/2024 15:14	64202	KINZ_T1	2	3	1	0.25	0.43	0.18	0	0	0	0	0	0	0	0
10/22/2024 15:15	61001	DONV_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/22/2024 15:17	64201	KINZ_T1	0	0	0	0	0	0	-1	-0.97	4	4	0	2100	2100	0
10/22/2024 15:17	64204	KINZ_T1	1	4	3	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
10/22/2024 15:17	64202	KINZ_T1	3	1	-2	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
10/22/2024 15:19	64204	KINZ_T1	1	4	3	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
10/22/2024 15:19	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.21	2	2	0	900	900	0
10/22/2024 15:19	64202	KINZ_T1	3	1	-2	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
10/22/2024 15:24	14402	SSLA_T1	2	3	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
10/22/2024 15:24	14404	SSLA_T1	0	0	0	0	0	0	0.15	0.19	0	0	0	0	0	0
10/22/2024 15:24	14401	SSLA_T1	2	2	0	0.2	0.55	0.35	0	0	0	0	0	0	0	0
10/22/2024 15:25	14801	TREI_T2	1	1	0	0.9	0.8	-0.1	0.48	0.48	0	0	0	0	0	0
10/22/2024 15:26	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 15:28	63804	HEMP_T1	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
10/22/2024 15:28	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/22/2024 15:28	63802	HEMP_T1	0	0	0	0	0	0	-0.43	-0.48	0	0	0	0	0	0
10/22/2024 15:28	63801	HEMP_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
10/22/2024 15:28	11603	CEAL_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
10/22/2024 15:28	63803	HEMP_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/22/2024 15:29	63801	HEMP_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
10/22/2024 15:29	52001	LING_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
10/22/2024 15:29	63804	HEMP_T1	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
10/22/2024 15:29	63803	HEMP_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/22/2024 15:29	63802	HEMP_T1	0	0	0	0	0	0	-0.43	-0.48	0	0	0	0	0	0
10/22/2024 15:32	63803	HEMP_T1	1	1	0	0.5	0.2	-0.3	0.26	0.24	0	0	0	0	0	0
10/22/2024 15:32	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
10/22/2024 15:32	63801	HEMP_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
10/22/2024 15:37	14201	EALL_T1	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
10/22/2024 15:39	14401	SSLA_T1	2	2	0	0.5	0.5	0	-0.45	-0.45	0	0	0	0	0	0
10/22/2024 15:39	49804	UNIV_T1	0	1	1	0	0.6	0.6	1.05	0.72	0	0	0	0	0	0
10/22/2024 15:39	14402	SSLA_T1	2	3	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
10/22/2024 15:39	49803	UNIV_T1	1	1	0	5.2	4.8	-0.4	0	0	0	0	0	0	0	0
10/22/2024 15:41	50107	HARR_T3	1	1	0	7.7	8.1	0.4	0	0	0	0	0	0	0	0
10/22/2024 15:41	50105	HARR_T3	6	6	0	6.45	6.4	-0.05	0	0	0	0	0	0	0	0
10/22/2024 15:41	50103	HARR_T3	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/22/2024 15:45	23202	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 15:45	46101	MACI_T2	0	0	0	0	0	0	-0.1	-0.07	1	1	0	1200	1200	0
10/22/2024 15:45	23201	HIRU_T2	0	4	4	0	0.13	0.13	0.14	0.17	0	0	0	0	0	0
10/22/2024 15:45	23203	HIRU_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
10/22/2024 15:46	64204	KINZ_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/22/2024 15:46	64201	KINZ_T1	0	0	0	0	0	0	-1.15	-0.67	4	4	0	2100	2100	0
10/22/2024 15:47	23202	HIRU_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 15:47	23201	HIRU_T2	6	5	-1	0.12	0.16	0.04	0	0	0	0	0	0	0	0
10/22/2024 15:47	23203	HIRU_T2	0	3	3	0	0.1	0.1	0.17	0.16	0	0	0	0	0	0
10/22/2024 15:48	14201	EALL_T1	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
10/22/2024 15:54	13704	SOHN_T2	0	0	0	0	0	0	-0.28	-0.21	0	0	0	0	0	0
10/22/2024 15:56	14801	TREI_T2	1	1	0	0.7	0.8	0.1	0.46	0.47	0	0	0	0	0	0
10/22/2024 15:59	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/22/2024 16:01	65207	PRIN_T4	1	1	0	0.6	0.6	0	0	0	2	2	0	1800	1800	0
10/22/2024 16:01	12604	MACA_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
10/22/2024 16:01	12606	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 16:01	65206	PRIN_T4	1	1	0	5.6	0	-5.6	0	0	0	0	0	0	0	0
10/22/2024 16:04	12606	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 16:04	12604	MACA_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
10/22/2024 16:09	10602	BLGL_T2	1	1	0	0.1	0.2	0.1	0.22	0.24	0	0	0	0	0	0
10/22/2024 16:11	44302	BEAV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/22/2024 16:11	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 16:13	40802	EXCH_T2	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
10/22/2024 16:13	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 16:13	50103	HARR_T3	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/22/2024 16:13	50201	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 16:13	50105	HARR_T3	6	6	0	6.43	6.28	-0.15	0	0	0	0	0	0	0	0
10/22/2024 16:13	50107	HARR_T3	1	1	0	8.1	7.7	-0.4	0	0	0	0	0	0	0	0
10/22/2024 16:14	44302	BEAV_T2	1	0	-1	0.2	0	-0.2	0.25	0.27	0	0	0	0	0	0
10/22/2024 16:14	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 16:15	21204	ECAR_T2	1	1	0	0.3	0.6	0.3	-0.67	-0.74	0	0	0	0	0	0
10/22/2024 16:15	67503	WEWI_T2	1	1	0	8	7.6	-0.4	-0.08	-0.04	0	0	0	0	0	0
10/22/2024 16:15	21206	ECAR_T2	1	1	0	8.1	7.9	-0.2	0	0	0	0	0	0	0	0
10/22/2024 16:19	42802	SELI_T1	0	0	0	0	0	0	-0.94	-1.02	1	1	0	900	900	0
10/22/2024 16:26	45602	WOOL_T1	4	3	-1	0.5	0.73	0.23	1.59	1.71	0	0	0	0	0	0
10/22/2024 16:27	62106	ELAN_T1	0	0	0	0	0	0	0.29	0.18	0	0	0	0	0	0
10/22/2024 16:27	44301	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 16:29	21206	ECAR_T2	1	1	0	8.1	7.9	-0.2	-0.02	0.04	0	0	0	0	0	0
10/22/2024 16:29	21204	ECAR_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
10/22/2024 16:32	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 16:32	67605	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/22/2024 16:37	24204	PROV_T3	1	1	0	6.2	5.7	-0.5	0	0	0	0	0	0	0	0
10/22/2024 16:37	24201	PROV_T3	8	114	106	0.96	0.22	-0.74	0	0	1	1	0	1200	1200	0
10/22/2024 16:38	24801	VALM_T1	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
10/22/2024 16:39	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/22/2024 16:41	46506	LOHA_T1	3	3	0	6.03	5.93	-0.1	0	0	0	0	0	0	0	0
10/22/2024 16:41	46505	LOHA_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
10/22/2024 16:41	46504	LOHA_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
10/22/2024 16:46	21204	ECAR_T2	1	1	0	0.5	0.6	0.1	-0.72	-0.71	0	0	0	0	0	0
10/22/2024 16:46	21206	ECAR_T2	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/22/2024 16:49	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 16:49	41901	REED_T1	1	6	5	0.2	0.2	0	0	0	0	0	0	0	0	0
10/22/2024 16:50	24204	PROV_T3	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
10/22/2024 16:50	24201	PROV_T3	114	3	-111	0.22	2.33	2.11	0	0	1	1	0	1200	1200	0
10/22/2024 16:52	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 16:53	15202	SFAR_T1	0	0	0	0	0	0	0.1	0.12	1	1	0	1200	1200	0
10/22/2024 16:53	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 16:53	41901	REED_T1	1	6	5	0.2	0.2	0	0	0	0	0	0	0	0	0
10/22/2024 16:54	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 17:10	50105	HARR_T3	6	6	0	6.4	6.27	-0.13	0	0	0	0	0	0	0	0
10/22/2024 17:10	50107	HARR_T3	1	1	0	7.9	7.4	-0.5	0	0	0	0	0	0	0	0
10/22/2024 17:10	50201	HARR_T3	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/22/2024 17:45	46602	LACR_T1	0	0	0	0	0	0	-0.98	-0.94	0	0	0	0	0	0
10/22/2024 17:57	46001	BERW_T1	0	0	0	0	0	0	0.66	0.57	0	0	0	0	0	0
10/22/2024 18:09	41901	REED_T1	9	9	0	0.21	0.34	0.13	0	0	0	0	0	0	0	0
10/22/2024 18:09	41903	REED_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/22/2024 18:30	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 19:01	64704	LITI_T1	0	0	0	0	0	0	0.22	0.4	1	1	0	600	600	0
10/22/2024 19:03	46504	LOHA_T1	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
10/22/2024 19:03	46506	LOHA_T1	3	3	0	5.8	5.4	-0.4	0	0	0	0	0	0	0	0
10/22/2024 19:03	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
10/22/2024 19:06	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 19:06	43302	WATS_T2	4	4	0	0.23	0.43	0.2	0	0	0	0	0	0	0	0
10/22/2024 20:03	55002	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/22/2024 20:03	55001	NEWP_T1	0	0	0	0	0	0	-0.89	-0.92	1	1	0	600	600	0
10/22/2024 20:04	55001	NEWP_T1	0	0	0	0	0	0	-0.89	-0.92	1	1	0	600	600	0
10/22/2024 20:04	55002	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/22/2024 20:05	62605	ENGL_T1	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
10/22/2024 20:05	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:06	10602	BLGL_T2	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
10/22/2024 20:07	23202	HIRU_T2	11	21	10	0.15	0.17	0.02	0	0	0	0	0	0	0	0
10/22/2024 20:07	17002	RIRO_T2	0	0	0	0	0	0	0.35	0.39	0	0	0	0	0	0
10/22/2024 20:07	15703	TANN_T2	1	2	1	5.1	2.5	-2.6	0	0	0	0	0	0	0	0
10/22/2024 20:07	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
10/22/2024 20:07	23201	HIRU_T2	13	25	12	0.15	0.13	-0.02	0.15	0.16	0	0	0	0	0	0
10/22/2024 20:07	23203	HIRU_T2	6	28	22	0.18	0.14	-0.04	0	0	0	0	0	0	0	0
10/22/2024 20:08	24801	VALM_T1	0	1	1	0	0	0	-0.32	-0.34	0	0	0	0	0	0
10/22/2024 20:09	58401	MORO_T1	0	0	0	0	0	0	-1.19	-1.17	1	1	0	600	600	0
10/22/2024 20:10	15603	NSTR_T2	7	11	4	0.14	0.25	0.11	-0.63	-0.64	0	0	0	0	0	0
10/22/2024 20:10	15203	SFAR_T2	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
10/22/2024 20:10	14802	TREI_T2	0	3	3	0	0.13	0.13	0.43	0.4	0	0	0	0	0	0
10/22/2024 20:10	46004	BERW_T2	0	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0
10/22/2024 20:10	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/22/2024 20:10	46002	BERW_T2	0	0	0	0	0	0	-1.09	-1.11	1	1	0	900	900	0
10/22/2024 20:10	15602	NSTR_T2	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 20:10	15601	NSTR_T2	4	13	9	0.98	0.41	-0.57	0	0	0	0	0	0	0	0
10/22/2024 20:11	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/22/2024 20:11	12604	MACA_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
10/22/2024 20:11	58401	MORO_T1	0	0	0	0	0	0	-1.19	-1.17	1	1	0	600	600	0
10/22/2024 20:11	60701	BREC_T1	0	1	1	0	0.1	0.1	-0.46	0.11	1	0	-1	600	0	-600
10/22/2024 20:11	13502	MCMI_T1	0	7	7	0	0.16	0.16	-0.15	-0.16	0	0	0	0	0	0
10/22/2024 20:11	62604	ENGL_T1	0	0	0	0	0	0	-0.78	-0.94	1	1	0	600	600	0
10/22/2024 20:11	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:12	64902	MILL_T2	0	0	0	0	0	0	-0.62	-0.6	1	1	0	900	900	0
10/22/2024 20:12	48901	FOSP_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
10/22/2024 20:12	67502	WEWI_T2	0	12	12	0	0.11	0.11	-0.24	-0.34	0	0	0	0	0	0
10/22/2024 20:12	67503	WEWI_T2	1	1	0	7.8	7.8	0	0	0	0	0	0	0	0	0
10/22/2024 20:12	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:13	64704	LITI_T1	0	0	0	0	0	0	0.4	0.46	1	1	0	600	600	0
10/22/2024 20:13	10101	ALLE_T3	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/22/2024 20:13	25404	LAHA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 20:13	25402	LAHA_T2	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
10/22/2024 20:13	43801	SWIL_T1	5	8	3	1.4	1	-0.4	0	0	0	0	0	0	0	0
10/22/2024 20:13	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:13	43802	SWIL_T1	0	0	0	0	0	0	-0.19	-0.21	1	1	0	600	600	0
10/22/2024 20:14	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/22/2024 20:14	48901	FOSP_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
10/22/2024 20:14	67002	STHI_T2	1	1	0	0.1	0.2	0.1	1.95	1.92	0	0	0	0	0	0
10/22/2024 20:14	67001	STHI_T2	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
10/22/2024 20:14	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:15	14801	TREI_T2	0	1	1	0	0.2	0.2	0.46	0.42	0	0	0	0	0	0
10/22/2024 20:15	67002	STHI_T2	1	7	6	0.2	0.11	-0.09	0	0	0	0	0	0	0	0
10/22/2024 20:15	65503	MOJO_T2	0	0	0	0	0	0	-0.16	-0.21	0	0	0	0	0	0
10/22/2024 20:15	15203	SFAR_T2	0	0	0	0	0	0	-2.3	-2.3	0	0	0	0	0	0
10/22/2024 20:15	14802	TREI_T2	1	6	5	0.1	0.12	0.02	0.43	0.4	0	0	0	0	0	0
10/22/2024 20:15	42802	SELI_T1	0	1	1	0	0.5	0.5	-1.23	-1.29	1	1	0	900	900	0
10/22/2024 20:15	47103	MARL_T2	0	0	0	0	0	0	-1.1	-1.17	0	0	0	0	0	0
10/22/2024 20:15	66504	SMAN_T2	0	0	0	0	0	0	-0.28	-0.54	0	0	0	0	0	0
10/22/2024 20:15	67001	STHI_T2	1	198	197	0.4	0.12	-0.28	0.13	0.13	0	0	0	0	0	0
10/22/2024 20:15	13501	MCMI_T1	0	0	0	0	0	0	0.16	0.11	0	0	0	0	0	0
10/22/2024 20:15	13502	MCMI_T1	0	7	7	0	0.16	0.16	0	0	0	0	0	0	0	0
10/22/2024 20:15	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/22/2024 20:16	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/22/2024 20:16	42002	MNVI_T2	1	1	0	3.9	4	0.1	0	0	0	0	0	0	0	0
10/22/2024 20:16	67002	STHI_T2	1	7	6	0.2	0.11	-0.09	1.3	1.28	0	0	0	0	0	0
10/22/2024 20:16	15203	SFAR_T2	0	0	0	0	0	0	-2.3	-2.3	0	0	0	0	0	0
10/22/2024 20:16	67001	STHI_T2	1	198	197	0.4	0.12	-0.28	0	0	0	0	0	0	0	0
10/22/2024 20:16	21206	ECAR_T2	1	1	0	7.9	8.4	0.5	1.43	1.4	0	0	0	0	0	0
10/22/2024 20:16	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:16	63602	LETO_T1	10	0	-10	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/22/2024 20:16	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/22/2024 20:16	63601	LETO_T1	0	0	0	0	0	0	0.63	0.57	2	2	0	2100	2100	0
10/22/2024 20:16	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/22/2024 20:16	15204	SFAR_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
10/22/2024 20:16	14204	EALL_T2	0	0	0	0	0	0	-0.52	0.79	0	0	0	0	0	0
10/22/2024 20:16	42001	MNVI_T2	263	274	11	1.01	1.02	0.01	-0.34	-0.33	0	0	0	0	0	0
10/22/2024 20:17	67002	STHI_T2	1	7	6	0.2	0.11	-0.09	1.3	1.28	0	0	0	0	0	0
10/22/2024 20:17	14404	SSLA_T1	0	0	0	0	0	0	0	-0.05	0	0	0	0	0	0
10/22/2024 20:17	66505	SMAN_T2	0	0	0	0	0	0	0.18	0.14	2	2	0	1500	1500	0
10/22/2024 20:17	67604	WARW_T1	0	0	0	0	0	0	0.52	0.59	0	0	0	0	0	0
10/22/2024 20:17	14402	SSLA_T1	1	5	4	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 20:17	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/22/2024 20:17	15204	SFAR_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
10/22/2024 20:17	20201	JERM_T1	0	0	0	0	0	0	1.74	1.75	0	0	0	0	0	0
10/22/2024 20:17	63501	HEID_TBK1-2	2	1	-1	0.45	0.4	-0.05	1.09	1.04	0	0	0	0	0	0
10/22/2024 20:17	54603	SUMM_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/22/2024 20:17	67605	WARW_T1	16	33	17	0.47	0.52	0.05	0	0	0	0	0	0	0	0
10/22/2024 20:17	62605	ENGL_T1	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
10/22/2024 20:17	64202	KINZ_T1	3	3	0	0.53	0.7	0.17	0	0	0	0	0	0	0	0
10/22/2024 20:17	24202	PROV_T4	7	12	5	0.1	0.26	0.16	0	0	1	1	0	1200	1200	0
10/22/2024 20:17	45602	WOOL_T1	0	15	15	0	0.24	0.24	0.53	0.53	0	0	0	0	0	0
10/22/2024 20:17	54601	SUMM_T2	13	13	0	0.73	0.95	0.22	-4.06	-4.07	2	2	0	2100	2100	0
10/22/2024 20:17	43301	WATS_T2	0	1	1	0	0.2	0.2	0.16	0.16	0	0	0	0	0	0
10/22/2024 20:17	24204	PROV_T3	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
10/22/2024 20:17	52006	LING_T2	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
10/22/2024 20:17	13701	SCHN_T2	0	0	0	0	0	0	0.04	0.02	1	1	0	600	600	0
10/22/2024 20:17	15203	SFAR_T2	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
10/22/2024 20:17	62105	ELAN_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
10/22/2024 20:17	64204	KINZ_T1	1	3	2	1.2	0.57	-0.63	0	0	0	0	0	0	0	0
10/22/2024 20:17	43302	WATS_T2	4	4	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
10/22/2024 20:17	14401	SSLA_T1	1	3	2	0.2	0.13	-0.07	-0.52	-0.52	0	0	0	0	0	0
10/22/2024 20:17	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/22/2024 20:17	64201	KINZ_T1	1	7	6	0.7	0.37	-0.33	-0.45	-0.46	2	2	0	1200	1200	0
10/22/2024 20:17	24201	PROV_T3	1	1	0	7	6.9	-0.1	0	0	0	0	0	0	0	0
10/22/2024 20:17	62607	ENGL_T1	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
10/22/2024 20:17	67001	STHI_T2	1	198	197	0.4	0.12	-0.28	0	0	0	0	0	0	0	0
10/22/2024 20:17	54602	SUMM_T2	13	13	0	0.52	0.7	0.18	0	0	0	0	0	0	0	0
10/22/2024 20:17	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:17	14802	TREI_T2	1	6	5	0.1	0.12	0.02	0.43	0.4	0	0	0	0	0	0
10/22/2024 20:17	67602	WARW_T2	2	0	-2	0.7	0	-0.7	1.4	1.43	1	1	0	300	300	0
10/22/2024 20:17	52004	LING_T2	2	2	0	6.1	6.15	0.05	0.09	0.09	0	0	0	0	0	0
10/22/2024 20:18	65601	QVIL_T2	0	0	0	0	0	0	-1.12	-1.17	1	1	0	900	900	0
10/22/2024 20:18	63602	LETO_T1	10	0	-10	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/22/2024 20:18	54506	ENOL_T2	0	0	0	0	0	0	0.71	0.76	1	1	0	600	600	0
10/22/2024 20:18	67605	WARW_T1	16	33	17	0.47	0.52	0.05	0	0	0	0	0	0	0	0
10/22/2024 20:18	23202	HIRU_T2	13	21	8	0.15	0.17	0.02	0	0	0	0	0	0	0	0
10/22/2024 20:18	50201	HARR_T3	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
10/22/2024 20:18	64602	LEOL_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
10/22/2024 20:18	44505	HAMI_T2	0	0	0	0	0	0	0.59	0.52	0	0	0	0	0	0
10/22/2024 20:18	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:18	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
10/22/2024 20:18	54601	SUMM_T2	13	13	0	0.73	0.95	0.22	-4.06	-4.07	2	2	0	2100	2100	0
10/22/2024 20:18	14204	EALL_T2	0	0	0	0	0	0	-1.05	1.58	0	0	0	0	0	0
10/22/2024 20:18	65206	PRIN_T4	2	1	-1	5.95	0	-5.95	0	0	0	0	0	0	0	0
10/22/2024 20:18	50105	HARR_T3	6	6	0	5.53	5.5	-0.03	0	0	0	0	0	0	0	0
10/22/2024 20:18	46602	LACR_T1	1	5	4	0.1	0.12	0.02	-0.99	-1.04	0	0	0	0	0	0
10/22/2024 20:18	57303	MOAL_T2	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
10/22/2024 20:18	21206	ECAR_T2	1	1	0	7.9	8.4	0.5	0	0	0	0	0	0	0	0
10/22/2024 20:18	67604	WARW_T1	0	0	0	0	0	0	0.52	0.59	0	0	0	0	0	0
10/22/2024 20:18	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
10/22/2024 20:18	23201	HIRU_T2	10	26	16	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
10/22/2024 20:18	12604	MACA_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
10/22/2024 20:18	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/22/2024 20:18	43402	BENT_T1	0	1	1	0	0	0	-0.88	-0.91	1	1	0	900	900	0
10/22/2024 20:18	21204	ECAR_T2	1	1	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
10/22/2024 20:18	63501	HEID_TBK1-2	2	1	-1	0.45	0.4	-0.05	0.54	0.52	0	0	0	0	0	0
10/22/2024 20:18	20403	ASHF_T2	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
10/22/2024 20:18	63601	LETO_T1	0	0	0	0	0	0	0.63	0.57	2	2	0	2100	2100	0
10/22/2024 20:18	20401	ASHF_T2	5	7	2	0.54	0.53	-0.01	0	0	0	0	0	0	0	0
10/22/2024 20:18	62106	ELAN_T1	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
10/22/2024 20:18	45902	AUBU_T1	0	0	0	0	0	0	0.39	0.41	2	2	0	1200	1200	0
10/22/2024 20:18	24702	FLND_T2	0	6	6	0	0.23	0.23	0.26	0.1	1	1	0	1200	1200	0
10/22/2024 20:18	65207	PRIN_T4	2	7	5	0.65	0.36	-0.29	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/22/2024 20:18	54603	SUMM_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/22/2024 20:18	50202	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
10/22/2024 20:18	48901	FOSP_T2	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
10/22/2024 20:18	47401	PENS_T1	0	0	0	0	0	0	0.38	0.44	0	0	0	0	0	0
10/22/2024 20:18	49803	LINV_T1	1	1	0	5	4.9	-0.1	-1.01	-1.02	0	0	0	0	0	0
10/22/2024 20:18	67603	WARW_T1	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
10/22/2024 20:18	44502	HAMI_T2	1	1	0	3.6	3.2	-0.4	0	0	0	0	0	0	0	0
10/22/2024 20:18	50107	HARR_T3	1	1	0	7	7.3	0.3	0	0	0	0	0	0	0	0
10/22/2024 20:18	54602	SUMM_T2	13	13	0	0.52	0.7	0.18	0	0	0	0	0	0	0	0
10/22/2024 20:18	15703	TANN_T2	1	3	2	5	1.63	-3.37	0	0	0	0	0	0	0	0
10/22/2024 20:18	50103	HARR_T3	2	2	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
10/22/2024 20:18	23203	HIRU_T2	8	28	20	0.14	0.14	0	0.28	0.35	0	0	0	0	0	0
10/22/2024 20:18	54501	ENOL_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
10/22/2024 20:18	62105	ELAN_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
10/22/2024 20:18	57304	MOAL_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
10/22/2024 20:18	50102	HARR_T3	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 20:19	42002	MNVL_T2	1	1	0	3.9	4	0.1	0	0	0	0	0	0	0	0
10/22/2024 20:19	42902	MIDD_T2	0	0	0	0	0	0	-0.5	-0.29	0	0	0	0	0	0
10/22/2024 20:19	24702	FLND_T2	0	6	6	0	0.23	0.23	0.26	0.1	1	1	0	1200	1200	0
10/22/2024 20:19	57203	ROSS_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
10/22/2024 20:19	67605	WARW_T1	16	33	17	0.47	0.52	0.05	-1.06	-1.05	0	0	0	0	0	0
10/22/2024 20:19	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:19	62607	ENGL_T1	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
10/22/2024 20:19	45501	DERR_T2	0	0	0	0	0	0	0.84	0.77	2	2	0	1800	1800	0
10/22/2024 20:19	67002	STHI_T2	1	7	6	0.2	0.11	-0.09	0	0	0	0	0	0	0	0
10/22/2024 20:19	60701	BREC_T1	1	0	-1	0.1	0	-0.1	-0.46	0.11	1	0	-1	600	0	-600
10/22/2024 20:19	62102	ELAN_T1	0	0	0	0	0	0	0.79	0.76	0	0	0	0	0	0
10/22/2024 20:19	15703	TANN_T2	1	3	2	5	1.63	-3.37	0	0	0	0	0	0	0	0
10/22/2024 20:19	42001	MNVL_T2	263	274	11	1.01	1.02	0.01	-0.34	-0.33	0	0	0	0	0	0
10/22/2024 20:19	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
10/22/2024 20:19	46802	HEPB_T1	1	1	0	0.8	1	0.2	-0.28	-0.27	0	0	0	0	0	0
10/22/2024 20:19	64204	KINZ_T1	1	3	2	1.2	0.57	-0.63	0	0	0	0	0	0	0	0
10/22/2024 20:19	67001	STHI_T2	1	198	197	0.4	0.12	-0.28	0.13	0.13	0	0	0	0	0	0
10/22/2024 20:19	64201	KINZ_T1	1	7	6	0.7	0.37	-0.33	-0.45	-0.46	2	2	0	1200	1200	0
10/22/2024 20:19	15203	SFAR_T2	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
10/22/2024 20:19	64202	KINZ_T1	3	3	0	0.53	0.7	0.17	0	0	0	0	0	0	0	0
10/22/2024 20:19	57201	ROSS_T1	1	7	6	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/22/2024 20:20	65206	PRIN_T4	2	1	-1	5.95	0	-5.95	0	0	0	0	0	0	0	0
10/22/2024 20:20	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/22/2024 20:20	14205	EALL_T2	0	0	0	0	0	0	-0.34	-0.31	0	0	0	0	0	0
10/22/2024 20:20	45502	DERR_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
10/22/2024 20:20	50105	HARR_T3	6	6	0	5.53	5.5	-0.03	0	0	0	0	0	0	0	0
10/22/2024 20:20	10805	CHHI_T2	2	2	0	6.8	5.3	-1.5	-1.1	-1.36	1	1	0	600	600	0
10/22/2024 20:20	23201	HIRU_T2	10	26	16	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
10/22/2024 20:20	23203	HIRU_T2	8	28	20	0.14	0.14	0	0.14	0.17	0	0	0	0	0	0
10/22/2024 20:20	50102	HARR_T3	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 20:20	45501	DERR_T2	0	0	0	0	0	0	0.84	0.77	2	2	0	1800	1800	0
10/22/2024 20:20	67602	WARW_T2	2	0	-2	0.7	0	-0.7	1.4	1.43	1	1	0	300	300	0
10/22/2024 20:20	63802	HEMP_T1	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
10/22/2024 20:20	63804	HEMP_T1	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
10/22/2024 20:20	65205	PRIN_T1	10	32	22	0.31	0.24	-0.07	0	0	0	0	0	0	0	0
10/22/2024 20:20	23202	HIRU_T2	13	21	8	0.15	0.17	0.02	0	0	0	0	0	0	0	0
10/22/2024 20:20	50107	HARR_T3	1	1	0	7	7.3	0.3	0	0	0	0	0	0	0	0
10/22/2024 20:20	64305	LINC_T1	1	1	0	0.1	0.1	0	-0.35	-0.29	0	0	0	0	0	0
10/22/2024 20:20	50201	HARR_T3	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
10/22/2024 20:20	50202	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
10/22/2024 20:20	65207	PRIN_T4	2	7	5	0.65	0.36	-0.29	0	0	1	1	0	1200	1200	0
10/22/2024 20:20	50103	HARR_T3	2	2	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
10/22/2024 20:21	54501	ENOL_T2	0	3	3	0	0.23	0.23	-0.51	-0.51	1	1	0	600	600	0
10/22/2024 20:21	46501	LOHA_T1	0	0	0	0	0	0	0.05	0.02	1	1	0	1200	1200	0
10/22/2024 20:21	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:21	62605	ENGL_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
10/22/2024 20:21	48902	FOSP_T2	0	0	0	0	0	0	0.09	0	0	0	0	0	0	0
10/22/2024 20:21	46504	LOHA_T1	3	3	0	0.13	0.77	0.64	0	0	0	0	0	0	0	0
10/22/2024 20:21	67402	WAKE_T2	0	0	0	0	0	0	-0.41	-0.42	1	1	0	600	600	0
10/22/2024 20:21	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
10/22/2024 20:21	14201	EALL_T1	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
10/22/2024 20:21	46506	LOHA_T1	3	3	0	5.63	6.03	0.4	0	0	0	0	0	0	0	0
10/22/2024 20:21	15203	SFAR_T2	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
10/22/2024 20:21	46505	LOHA_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
10/22/2024 20:21	10801	CHHI_T1	0	0	0	0	0	0	-1.34	-1.37	2	2	0	1500	1500	0
10/22/2024 20:21	13502	MCMI_T1	0	7	7	0	0.16	0.16	0	0	0	0	0	0	0	0
10/22/2024 20:22	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
10/22/2024 20:22	46801	HEPB_T2	2	2	0	0.7	0.8	0.1	0.52	0.54	0	0	0	0	0	0
10/22/2024 20:22	41301	FISH_T1	3	3	0	0.9	0.97	0.07	0	0	0	0	0	0	0	0
10/22/2024 20:22	48901	FOSP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:22	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/22/2024 20:22	62607	ENGL_T1	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
10/22/2024 20:22	67605	WARW_T1	16	33	17	0.47	0.52	0.05	0	0	0	0	0	0	0	0
10/22/2024 20:22	40801	EXCH_T2	3	3	0	0.2	0.27	0.07	0	0	0	0	0	0	0	0
10/22/2024 20:22	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:22	67001	STHI_T2	1	198	197	0.4	0.12	-0.28	0	0	0	0	0	0	0	0
10/22/2024 20:22	40902	JESH_T1	0	1	1	0	0.1	0.1	-0.77	-0.79	0	0	0	0	0	0
10/22/2024 20:22	64201	KINZ_T1	1	7	6	0.7	0.37	-0.33	-0.46	-0.48	2	2	0	1200	1200	0
10/22/2024 20:22	60803	BUCK_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 20:22	64202	KINZ_T1	3	3	0	0.53	0.7	0.17	0	0	0	0	0	0	0	0
10/22/2024 20:22	15203	SFAR_T2	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
10/22/2024 20:22	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.23	0	0	0	0	0	0
10/22/2024 20:22	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/22/2024 20:22	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:22	64204	KINZ_T1	1	3	2	1.2	0.57	-0.63	0	0	0	0	0	0	0	0
10/22/2024 20:22	66703	STRA_T1	0	0	0	0	0	0	-0.28	-0.24	0	0	0	0	0	0
10/22/2024 20:22	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/22/2024 20:22	43801	SWIL_T1	8	8	0	0.93	1.01	0.08	0	0	0	0	0	0	0	0
10/22/2024 20:22	63501	HEID_TBK1-2	2	1	-1	0.45	0.4	-0.05	0.52	0.55	0	0	0	0	0	0
10/22/2024 20:22	67002	STHI_T2	1	7	6	0.2	0.11	-0.09	0.64	0.62	0	0	0	0	0	0
10/22/2024 20:22	45602	WOOL_T1	0	15	15	0	0.24	0.24	0.53	0.53	0	0	0	0	0	0
10/22/2024 20:22	40802	EXCH_T2	1	4	3	0.1	0.1	0	-0.3	-0.31	0	0	0	0	0	0
10/22/2024 20:23	24105	EHAZ_T1	4	4	0	5.83	5.93	0.1	0	0	0	0	0	0	0	0
10/22/2024 20:23	50501	MECH_T1	4	4	0	0.78	0.85	0.07	0.39	0.27	0	0	0	0	0	0
10/22/2024 20:23	43302	WATS_T2	4	4	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
10/22/2024 20:23	64802	MONE_T2	0	0	0	0	0	0	0.11	0.21	0	0	0	0	0	0
10/22/2024 20:23	24104	EHAZ_T1	0	0	0	0	0	0	-0.84	-0.85	1	1	0	1200	1200	0
10/22/2024 20:23	14802	TREI_T2	1	6	5	0.1	0.12	0.02	0.4	0.42	0	0	0	0	0	0
10/22/2024 20:23	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/22/2024 20:23	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:23	67605	WARW_T1	16	33	17	0.47	0.52	0.05	-1.05	-1.12	0	0	0	0	0	0
10/22/2024 20:23	24201	PROV_T3	1	1	0	7	6.9	-0.1	0	0	0	0	0	0	0	0
10/22/2024 20:23	66504	SMAN_T2	0	0	0	0	0	0	-0.27	-0.22	0	0	0	0	0	0
10/22/2024 20:23	14201	EALL_T1	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
10/22/2024 20:23	50502	MECH_T1	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
10/22/2024 20:23	62606	ENGL_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	900	900	0
10/22/2024 20:23	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:23	63803	HEMP_T1	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
10/22/2024 20:23	40101	HUNT_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:23	44502	HAMI_T2	1	1	0	3.6	3.2	-0.4	0	0	0	0	0	0	0	0
10/22/2024 20:23	63804	HEMP_T1	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
10/22/2024 20:23	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/22/2024 20:23	43304	WATS_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
10/22/2024 20:23	41301	FISH_T1	3	3	0	0.9	0.97	0.07	0.33	0.33	0	0	0	0	0	0
10/22/2024 20:23	60201	ATGL_T2	36	134	98	0.17	0.25	0.08	-0.27	-0.29	0	0	0	0	0	0
10/22/2024 20:23	65503	MOJO_T2	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
10/22/2024 20:23	67401	WAKE_T2	0	0	0	0	0	0	-0.97	-0.94	0	0	0	0	0	0
10/22/2024 20:23	61501	EPET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:23	24204	PROV_T3	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
10/22/2024 20:23	52001	LING_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
10/22/2024 20:23	24102	EHAZ_T1	6	4	-2	0.97	0.8	-0.17	0	0	0	0	0	0	0	0
10/22/2024 20:23	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/22/2024 20:23	60701	BREC_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/22/2024 20:23	63802	HEMP_T1	0	0	0	0	0	0	-1.05	-1.01	0	0	0	0	0	0
10/22/2024 20:23	64902	MILL_T2	0	0	0	0	0	0	-0.6	-0.61	1	1	0	900	900	0
10/22/2024 20:23	44301	BEAV_T2	0	0	0	0	0	0	-0.53	-0.54	1	1	0	600	600	0
10/22/2024 20:23	66505	SMAN_T2	0	0	0	0	0	0	0.14	0.81	2	1	-1	1500	900	-600
10/22/2024 20:24	48901	FOSP_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
10/22/2024 20:24	67602	WARW_T2	2	0	-2	0.7	0	-0.7	1.43	1.36	1	1	0	300	300	0
10/22/2024 20:24	61501	EPET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:24	67002	STHI_T2	1	7	6	0.2	0.11	-0.09	0	0	0	0	0	0	0	0
10/22/2024 20:24	62602	ENGL_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
10/22/2024 20:24	13704	SCHN_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
10/22/2024 20:24	57101	SPHI_T2	5	5	0	1.2	1.54	0.34	0	0	0	0	0	0	0	0
10/22/2024 20:24	67001	STHI_T2	1	198	197	0.4	0.12	-0.28	0.13	0.1	0	0	0	0	0	0
10/22/2024 20:24	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/22/2024 20:24	57106	SPHI_T2	3	3	0	1.87	1.73	-0.14	0	0	0	0	0	0	0	0
10/22/2024 20:24	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/22/2024 20:24	57104	SPHI_T2	2	3	1	1.8	5.15	3.35	-1.06	-1.07	0	0	0	0	0	0
10/22/2024 20:25	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/22/2024 20:25	46803	HEPB_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
10/22/2024 20:25	54601	SUMM_T2	13	13	0	0.73	0.95	0.22	-4.07	-4.06	2	2	0	2100	2100	0
10/22/2024 20:25	57402	SPAN_T2	0	0	0	0	0	0	-1.22	-1.23	0	0	0	0	0	0
10/22/2024 20:25	46801	HEPB_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/22/2024 20:25	63501	HEID_TBK1-2	2	1	-1	0.45	0.4	-0.05	0.52	0.55	0	0	0	0	0	0
10/22/2024 20:25	54603	SUMM_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/22/2024 20:25	64202	KINZ_T1	3	3	0	0.53	0.7	0.17	0	0	0	0	0	0	0	0
10/22/2024 20:25	64204	KINZ_T1	1	3	2	1.2	0.57	-0.63	0	0	0	0	0	0	0	0
10/22/2024 20:25	67002	STHI_T2	1	7	6	0.2	0.11	-0.09	0.64	0.62	0	0	0	0	0	0
10/22/2024 20:25	64201	KINZ_T1	1	7	6	0.7	0.37	-0.33	0	0	0	0	0	0	0	0
10/22/2024 20:25	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:25	40902	JESH_T1	0	1	1	0	0.1	0.1	-0.77	-0.79	0	0	0	0	0	0
10/22/2024 20:25	43302	WATS_T2	4	4	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
10/22/2024 20:25	54602	SUMM_T2	13	13	0	0.52	0.7	0.18	0	0	0	0	0	0	0	0
10/22/2024 20:25	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:25	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/22/2024 20:25	64203	KINZ_T1	0	0	0	0	0	0	0	-0.05	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/22/2024 20:25	57403	SPAN_T1	3	17	14	0.1	0.26	0.16	0	0.03	0	0	0	0	0	0
10/22/2024 20:25	67001	STHI_T2	1	198	197	0.4	0.12	-0.28	0	0	0	0	0	0	0	0
10/22/2024 20:25	57401	SPAN_T1	2	2	0	0.95	1.05	0.1	0	0	0	0	0	0	0	0
10/22/2024 20:25	43304	WATS_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
10/22/2024 20:26	40902	JESH_T1	0	1	1	0	0.1	0.1	-1.54	-1.58	0	0	0	0	0	0
10/22/2024 20:26	40801	EXCH_T2	3	3	0	0.2	0.27	0.07	-0.53	-0.52	1	1	0	1200	1200	0
10/22/2024 20:26	55101	WERT_T1	0	0	0	0	0	0	-1.05	-1.05	1	1	0	600	600	0
10/22/2024 20:26	20401	ASHF_T2	5	7	2	0.54	0.53	-0.01	0	0	0	0	0	0	0	0
10/22/2024 20:26	20403	ASHF_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
10/22/2024 20:26	43802	SWIL_T1	0	0	0	0	0	0	-0.21	-0.2	1	1	0	600	600	0
10/22/2024 20:26	43402	BENT_T1	0	1	1	0	0	0	-0.91	-0.9	1	1	0	900	900	0
10/22/2024 20:26	43801	SWIL_T1	8	8	0	0.93	1.01	0.08	0	0	0	0	0	0	0	0
10/22/2024 20:26	62102	ELAN_T1	0	0	0	0	0	0	0.76	0.76	0	0	0	0	0	0
10/22/2024 20:26	46004	BERW_T2	1	1	0	3.5	2.6	-0.9	-0.04	-0.02	0	0	0	0	0	0
10/22/2024 20:26	45802	HEGI_T2	19	26	7	0.38	0.36	-0.02	0.67	0.76	0	0	0	0	0	0
10/22/2024 20:26	67201	TEHI_T1	0	0	0	0	0	0	0.03	-0.02	1	1	0	900	900	0
10/22/2024 20:26	13704	SCHN_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
10/22/2024 20:26	67203	TEHI_T1	0	0	0	0	0	0	2.35	2.22	2	2	0	1500	1500	0
10/22/2024 20:26	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:26	40802	EXCH_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
10/22/2024 20:27	44301	BEAV_T2	0	0	0	0	0	0	-0.53	-0.54	1	1	0	600	600	0
10/22/2024 20:27	67605	WARW_T1	16	33	17	0.47	0.52	0.05	-1.05	-1.12	0	0	0	0	0	0
10/22/2024 20:27	64204	KINZ_T1	1	3	2	1.2	0.57	-0.63	0	0	0	0	0	0	0	0
10/22/2024 20:27	40201	BEGA_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/22/2024 20:27	46101	MACI_T2	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
10/22/2024 20:27	48901	FOSP_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
10/22/2024 20:27	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:27	62606	ENGL_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	900	900	0
10/22/2024 20:27	64202	KINZ_T1	3	3	0	0.53	0.7	0.17	0	0	0	0	0	0	0	0
10/22/2024 20:27	46506	LOHA_T1	3	3	0	5.63	6.03	0.4	0	0	0	0	0	0	0	0
10/22/2024 20:27	67001	STHI_T2	1	198	197	0.4	0.12	-0.28	0.13	0.1	0	0	0	0	0	0
10/22/2024 20:27	64201	KINZ_T1	1	7	6	0.7	0.37	-0.33	0	0	0	0	0	0	0	0
10/22/2024 20:27	62605	ENGL_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
10/22/2024 20:27	67002	STHI_T2	1	7	6	0.2	0.11	-0.09	0.64	0.62	0	0	0	0	0	0
10/22/2024 20:27	45802	HEGI_T2	19	26	7	0.38	0.36	-0.02	0.67	0.76	0	0	0	0	0	0
10/22/2024 20:27	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
10/22/2024 20:27	46504	LOHA_T1	3	3	0	0.13	0.77	0.64	0	0	0	0	0	0	0	0
10/22/2024 20:28	63501	HEID_TBK1-2	2	1	-1	0.45	0.4	-0.05	0.52	0.55	0	0	0	0	0	0
10/22/2024 20:28	50105	HARR_T3	6	6	0	5.53	5.5	-0.03	0	0	0	0	0	0	0	0
10/22/2024 20:28	44302	BEAV_T2	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
10/22/2024 20:28	50103	HARR_T3	2	2	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
10/22/2024 20:28	50107	HARR_T3	1	1	0	7	7.3	0.3	0	0	0	0	0	0	0	0
10/22/2024 20:28	44701	MUNC_T2	248	85	-163	0.26	0.15	-0.11	0	0	0	0	0	0	0	0
10/22/2024 20:28	67401	WAKE_T2	0	0	0	0	0	0	-0.97	-0.94	0	0	0	0	0	0
10/22/2024 20:28	40201	BEGA_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/22/2024 20:28	42902	MIDD_T2	0	0	0	0	0	0	-0.59	-0.74	0	0	0	0	0	0
10/22/2024 20:28	44703	MUNC_T2	2	2	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
10/22/2024 20:28	63801	HEMP_T1	0	0	0	0	0	0	-0.01	-0.13	0	0	0	0	0	0
10/22/2024 20:28	44702	MUNC_T2	97	9	-88	0.39	0.12	-0.27	0	0	0	0	0	0	0	0
10/22/2024 20:28	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.19	1	1	0	600	600	0
10/22/2024 20:28	50202	HARR_T3	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
10/22/2024 20:28	55101	WERT_T1	0	0	0	0	0	0	-1.05	-1.05	1	1	0	600	600	0
10/22/2024 20:28	50201	HARR_T3	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
10/22/2024 20:28	63804	HEMP_T1	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
10/22/2024 20:28	50102	HARR_T3	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/22/2024 20:28	66505	SMAN_T2	0	0	0	0	0	0	0.14	0.81	2	1	-1	1500	900	-600
10/22/2024 20:29	46001	BERW_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
10/22/2024 20:29	67804	WLAN_T1	6	45	39	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/22/2024 20:29	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:29	67802	WLAN_T1	33	34	1	0.35	0.48	0.13	0	0	0	0	0	0	0	0
10/22/2024 20:29	66504	SMAN_T2	0	0	0	0	0	0	-0.27	-0.22	0	0	0	0	0	0
10/22/2024 20:29	67801	WLAN_T1	6	7	1	0.3	0.44	0.14	0	0	0	0	0	0	0	0
10/22/2024 20:29	64201	KINZ_T1	1	7	6	0.7	0.37	-0.33	0	0	0	0	0	0	0	0
10/22/2024 20:29	67805	WLAN_T1	375	473	98	0.37	0.44	0.07	-1.38	-1.44	0	0	0	0	0	0
10/22/2024 20:29	67803	WLAN_T1	2	55	53	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
10/22/2024 20:29	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22/2024 20:29	64202	KINZ_T1	3	3	0	0.53	0.7	0.17	0	0	0	0	0	0	0	0
10/22/2024 20:29	64203	KINZ_T1	0	0	0	0	0	0	0	-0.05	1	1	0	600	600

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/23/2024 8:15	54501	ENOL_T2	4	4	0	0.38	0.2	-0.18	0	0	0	0	0	0	0	0
10/23/2024 8:17	55002	NEWP_T1	6	6	0	0.75	0.95	0.2	-0.27	-0.25	0	0	0	0	0	0
10/23/2024 8:18	48301	ORWI_T1	2	2	0	4.8	4.5	-0.3	0	0	1	1	0	900	900	0
10/23/2024 8:19	47403	PENS_T1	0	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0
10/23/2024 8:19	47402	PENS_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
10/23/2024 8:19	47401	PENS_T1	3	3	0	0.27	0.33	0.06	0.21	0.16	0	0	0	0	0	0
10/23/2024 8:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 8:21	55002	NEWP_T1	6	6	0	0.75	0.95	0.2	-0.27	-0.25	0	0	0	0	0	0
10/23/2024 8:26	11202	ELHE_T2	0	0	0	0	0	0	0.43	0.43	1	1	0	1200	1200	0
10/23/2024 8:26	57004	WHHI_T2	0	0	0	0	0	0	-1.25	-1.26	0	0	0	0	0	0
10/23/2024 8:27	44801	EDAN_T2	1	0	-1	0	0	0	-0.5	-0.55	0	0	0	0	0	0
10/23/2024 8:29	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 8:31	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 8:32	55507	HERS_T1	0	7	7	0	0.21	0.21	0.06	0.05	0	0	0	0	0	0
10/23/2024 8:32	55501	HERS_T1	52	52	0	0.18	0.5	0.32	0	0	0	0	0	0	0	0
10/23/2024 8:33	64702	LITI_T2	0	0	0	0	0	0	-0.87	-0.82	0	0	0	0	0	0
10/23/2024 8:34	55002	NEWP_T1	6	7	1	0.83	0.79	-0.04	-0.25	-0.22	0	0	0	0	0	0
10/23/2024 8:35	67503	WEWI_T2	1	1	0	9	9.4	0.4	0	0	0	0	0	0	0	0
10/23/2024 8:35	67502	WEWI_T2	0	53	53	0	0.15	0.15	-0.35	-0.34	0	0	0	0	0	0
10/23/2024 8:36	47802	MOCA_T2	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
10/23/2024 8:39	45902	AUBU_T1	0	0	0	0	0	0	-0.05	0.11	1	1	0	600	600	0
10/23/2024 8:44	63501	HEID_TBK1-2	2	2	0	0.8	1.1	0.3	0.48	0.54	0	0	0	0	0	0
10/23/2024 8:46	50103	HARR_T3	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
10/23/2024 8:46	50201	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 8:46	50105	HARR_T3	6	6	0	5.57	5.2	-0.37	0	0	0	0	0	0	0	0
10/23/2024 8:46	50202	HARR_T3	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 8:46	50102	HARR_T3	0	11	11	0	0.16	0.16	0	0	0	0	0	0	0	0
10/23/2024 8:46	50107	HARR_T3	1	1	0	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
10/23/2024 8:48	54203	PENN_T1	18	18	0	1.31	1.63	0.32	0	0	0	0	0	0	0	0
10/23/2024 8:48	45702	LIND_T2	1	1	0	0.6	0.8	0.2	-0.38	-0.39	0	0	0	0	0	0
10/23/2024 8:48	54201	PENN_T1	10	10	0	0.94	1.25	0.31	0	0	0	0	0	0	0	0
10/23/2024 8:50	54201	PENN_T1	10	10	0	0.94	1.25	0.31	0	0	0	0	0	0	0	0
10/23/2024 8:50	46101	MACI_T2	0	0	0	0	0	0	0.44	0.41	1	1	0	1200	1200	0
10/23/2024 8:50	54202	PENN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 8:50	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 8:50	54203	PENN_T1	18	18	0	1.31	1.63	0.32	0.11	0.31	0	0	0	0	0	0
10/23/2024 8:54	66401	ROBE_T1	0	0	0	0	0	0	-0.8	-0.81	1	1	0	600	600	0
10/23/2024 8:57	12206	FOGE_T2	0	0	0	0	0	0	-1.19	-1.08	2	2	0	2100	2100	0
10/23/2024 8:58	12206	FOGE_T2	0	0	0	0	0	0	-1.19	-1.08	2	2	0	2100	2100	0
10/23/2024 8:58	45901	AUBU_T1	0	0	0	0	0	0	1.43	1.36	0	0	0	0	0	0
10/23/2024 8:59	50105	HARR_T3	6	6	0	5.57	5.2	-0.37	0	0	0	0	0	0	0	0
10/23/2024 8:59	50201	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 8:59	50107	HARR_T3	1	1	0	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
10/23/2024 8:59	50202	HARR_T3	0	6	6	0	0.1	0.1	-0.39	0.42	0	0	0	0	0	0
10/23/2024 8:59	50102	HARR_T3	0	11	11	0	0.16	0.16	0	0	0	0	0	0	0	0
10/23/2024 8:59	50103	HARR_T3	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
10/23/2024 9:01	64902	MILL_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
10/23/2024 9:01	64702	LITI_T2	0	0	0	0	0	0	-0.89	-0.86	0	0	0	0	0	0
10/23/2024 9:03	64802	MONE_T2	14	69	55	0.14	0.22	0.08	0	0	0	0	0	0	0	0
10/23/2024 9:03	65802	RTWN_T2	0	1	1	0	0	0	-0.23	-0.24	0	0	0	0	0	0
10/23/2024 9:03	64303	LINC_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
10/23/2024 9:03	64305	LINC_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/23/2024 9:03	64801	MONE_T2	33	55	22	0.16	0.21	0.05	0.24	0.26	0	0	0	0	0	0
10/23/2024 9:04	57201	ROSS_T1	24	12	-12	0.19	0.18	-0.01	-0.69	-0.64	0	0	0	0	0	0
10/23/2024 9:04	51704	OBER_T1	0	0	0	0	0	0	-0.46	-0.42	0	0	0	0	0	0
10/23/2024 9:04	51702	OBER_T1	2	2	0	3.5	3.5	0	0	0	0	0	0	0	0	0
10/23/2024 9:05	57201	ROSS_T1	24	12	-12	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
10/23/2024 9:05	57205	ROSS_T1	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
10/23/2024 9:05	65603	QVIL_T2	0	0	0	0	0	0	0.45	0.39	0	0	0	0	0	0
10/23/2024 9:05	65601	QVIL_T2	13	4	-9	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
10/23/2024 9:06	67605	WARW_T1	43	48	5	0.65	0.63	-0.02	-1.11	-1.09	0	0	0	0	0	0
10/23/2024 9:06	67603	WARW_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
10/23/2024 9:07	67502	WEWI_T2	53	79	26	0.15	0.16	0.01	0	0	0	0	0	0	0	0
10/23/2024 9:07	57201	ROSS_T1	24	12	-12	0.19	0.18	-0.01	-0.64	-0.53	0	0	0	0	0	0
10/23/2024 9:07	67503	WEWI_T2	1	1	0	9.4	9.7	0.3	0	0	0	0	0	0	0	0
10/23/2024 9:08	67503	WEWI_T2	1	1	0	9.4	9.7	0.3	0	0	0	0	0	0	0	0
10/23/2024 9:08	67605	WARW_T1	43	48	5	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
10/23/2024 9:08	67502	WEWI_T2	53	79	26	0.15	0.16	0.01	0	0	0	0	0	0	0	0
10/23/2024 9:08	67603	WARW_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
10/23/2024 9:09	67605	WARW_T1	43	48	5	0.65	0.63	-0.02	-1.11	-1.09	0	0	0	0	0	0
10/23/2024 9:10	67605	WARW_T1	43	48	5	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
10/23/2024 9:10	51603	DUKE_T1	0	1	1	0	0.1	0.1	83.96	83.96	0	0	0	0	0	0
10/23/2024 9:10	14201	EALL_T1	0	0	0	0	0	0	0.59	0.49	0	0	0	0	0	0
10/23/2024 9:10	67604	WARW_T1	0	0	0	0	0	0	0.52	0.62	0	0	0	0	0	0
10/23/2024 9:10	67501	WEWI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/23/2024 9:12	51603	DUKE_T1	0	1	1	0	0.1	0.1	83.96	83.96	0	0	0	0	0	0
10/23/2024 9:15	51603	DUKE_T1	1	0	-1	0.1	0	-0.1	167.92	167.92	0	0	0	0	0	0
10/23/2024 9:19	54202	PENN_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/23/2024 9:19	54206	PENN_T2	0	0	0	0	0	0	0.07	0.11	0	0	0	0	0	0
10/23/2024 9:22	54203	PENN_T1	18	18	0	1.46	1.46	0	0.37	0.4	0	0	0	0	0	0
10/23/2024 9:22	67103	SPRI_T1	0	0	0	0	0	0	-0.11	-0.15	0	0	0	0	0	0
10/23/2024 9:22	54201	PENN_T1	10	10	0	1.15	1.16	0.01	0	0	0	0	0	0	0	0
10/23/2024 9:23	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/23/2024 9:24	45901	AUBU_T1	0	0	0	0	0	0	1.38	1.43	0	0	0	0	0	0
10/23/2024 9:26	67605	WARW_T1	45	46	1	0.6	0.64	0.04	0	0	0	0	0	0	0	0
10/23/2024 9:26	67603	WARW_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
10/23/2024 9:26	64602	LEOL_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
10/23/2024 9:28	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 9:28	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 9:29	63801	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/23/2024 9:29	63804	HEMP_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
10/23/2024 9:29	63803	HEMP_T1	4	2	-2	0.25	0.15	-0.1	0.09	0.09	0	0	0	0	0	0
10/23/2024 9:30	40601	PIGR_T1	0	13	13	0	0.2	0.2	0	0	0	0	0	0	0	0
10/23/2024 9:30	63803	HEMP_T1	2	2	0	0.1	0.25	0.15	0.09	0.09	0	0	0	0	0	0
10/23/2024 9:30	40602	PIGR_T1	0	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0
10/23/2024 9:30	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
10/23/2024 9:32	14002	SELL_T2	1	1	0	4.8	4.9	0.1	0	0	0	0	0	0	0	0
10/23/2024 9:32	14006	SELL_T2	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
10/23/2024 9:32	14008	SELL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/23/2024 9:39	67401	WAKE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/23/2024 9:39	67402	WAKE_T2	0	0	0	0	0	0	0.38	0.35	1	1	0	600	600	0
10/23/2024 9:40	43302	WATS_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 9:40	43301	WATS_T2	1	1	0	0.9	0.8	-0.1	-0.89	0.13	1	0	-1	900	0	-900
10/23/2024 9:41	57205	ROSS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/23/2024 9:41	57201	ROSS_T1	8	6	-2	0.19	0.13	-0.06	-0.5	-0.42	0	0	0	0	0	0
10/23/2024 9:43	45501	DERR_T2	1	1	0	1.4	1.4	0	1.33	1.82	4	4	0	3600	3600	0
10/23/2024 9:44	41801	GOCI_T2	1	4	3	0.1	0.25	0.15	0	0	0	0	0	0	0	0
10/23/2024 9:45	62605	ENGL_T1	7	2	-5	0.27	0.5	0.23	0	0	0	0	0	0	0	0
10/23/2024 9:45	62604	ENGL_T1	0	1	1	0	0	0	-0.17	0.12	0	0	0	0	0	0
10/23/2024 9:45	62607	ENGL_T1	3	2	-1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
10/23/2024 9:51	64801	MONE_T2	57	58	1	0.24	0.18	-0.06	0.27	0.26	0	0	0	0	0	0
10/23/2024 9:51	64802	MONE_T2	83	73	-10	0.23	0.26	0.03	0	0	0	0	0	0	0	0
10/23/2024 9:54	57205	ROSS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/23/2024 9:54	57201	ROSS_T1	6	0	-6	0.13	0	-0.13	0	0	0	0	0	0	0	0
10/23/2024 9:54	57203	ROSS_T1	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
10/23/2024 9:57	67703	WERN_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/23/2024 9:57	11205	ELHE_T1	0	1	1	0	4	4	0	0	0	0	0	0	0	0
10/23/2024 9:57	11203	ELHE_T1	0	0	0	0	0	0	0.87	0.88	0	0	0	0	0	0
10/23/2024 9:58	54501	ENOL_T2	4	4	0	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
10/23/2024 9:58	54505	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
10/23/2024 9:58	54502	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
10/23/2024 9:58	54503	ENOL_T2	0	0	0	0	0	0	-0.45	-0.46	1	1	0	600	600	0
10/23/2024 10:00	47401	PENS_T1	0	0	0	0	0	0	0.87	0.9	0	0	0	0	0	0
10/23/2024 10:00	46602	LACK_T1	1	1	0	0.7	1.3	0.6	-1.01	-1.04	0	0	0	0	0	0
10/23/2024 10:00	51603	DUKE_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
10/23/2024 10:00	15603	NSTR_T2	1	1	0	0.4	0.7	0.3	-0.72	-0.73	0	0	0	0	0	0
10/23/2024 10:00	67502	WEWI_T2	7	23	16	0.31	0.25	-0.06	0	0	0	0	0	0	0	0
10/23/2024 10:00	67503	WEWI_T2	1	1	0	9.9	9.3	-0.6	0	-0.54	0	0	0	0	0	0
10/23/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
10/23/2024 10:00	28102	TWLA_T2	11	14	3	0.49	0.47	-0.02	0.18	0.17	0	0	0	0	0	0
10/23/2024 10:00	15601	NSTR_T2	0	3	3	0	0.7	0.7	0	0	0	0	0	0	0	0
10/23/2024 10:00	13503	MCMI_T2	0	1	1	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
10/23/2024 10:00	47403	PENS_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
10/23/2024 10:05	14401	SSLA_T1	1	1	0	0.5	1.2	0.7	0	0	0	0	0	0	0	0
10/23/2024 10:05	14403	SSLA_T1	1	3	2	0.1	0.33	0.23	0.55	0.56	0	0	0	0	0	0
10/23/2024 10:05	14402	SSLA_T1	2	4	2	0.2	2.38	2.18	0	0	0	0	0	0	0	0
10/23/2024 10:05	14404	SSLA_T1	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/23/2024 10:06	14404	SSLA_T1	3	3	0	0.2	0.2	0	-0.1	-0.06	0	0	0	0	0	0
10/23/2024 10:06	14403	SSLA_T1	1	3	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0
10/23/2024 10:06	14401	SSLA_T1	1	1	0	0.5	1.2	0.7	0	0	0	0	0	0	0	0
10/23/2024 10:06	14402	SSLA_T1	2	4	2	0.2	2.38	2.18	0	0	0	0	0	0	0	0
10/23/2024 10:07	14404	SSLA_T1	3	3	0	0.2	0.2	0	-0.1	-0.06	0	0	0	0	0	0
10/23/2024 10:07	14403	SSLA_T1	1	3	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0
10/23/2024 10:07	14402	SSLA_T1	2	4	2	0.2	2.38	2.18	0	0	0	0	0	0	0	0
10/23/2024 10:07	14401	SSLA_T1	1	1	0	0.5	1.2	0.7	0	0	0	0	0	0	0	0
10/23/2024 10:08	14802	TREI_T2	1	1	0	0.2	0.1	-0.1	0.41	0.36	0	0	0	0	0	0
10/23/2024 10:08	14402	SSLA_T1	2	4	2	0.2	2.38	2.18	0	0	0	0	0	0	0	0
10/23/2024 10:08	14801	TREI_T2	4	3	-1	0.28	0.13	-0.15	0	0	0	0	0	0	0	0
10/23/2024 10:08	65603	QVIL_T2	0	0	0	0	0	0	0.59	0.67	0	0	0	0	0	0
10/23/2024 10:08	14404	SSLA_T1	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/23/2024 10:08	14403	SSLA_T1	1	3	2	0.1	0.33	0.23	0.56	0.55	0	0	0	0	0	0
10/23/2024 10:08	65601	QVIL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
10/23/2024 10:08	14401	SSLA_T1	1	1	0	0.5	1.2	0.7	0	0	0	0	0	0	0	0
10/23/2024 10:08	10602	BLGL_T2	0	0	0	0	0	0	0.7	0.65	0	0	0	0	0	0
10/23/2024 10:09	67103	SPRI_T1	0	0	0	0	0	0	-0.08	-0.02	0	0	0	0	0	0
10/23/2024 10:10	67401	WAKE_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/23/2024 10:10	67402	WAKE_T2	0	0	0	0	0	0	0.35	0.33	1	1	0	600	600	0
10/23/2024 10:11	10801	CHHI_T1	2	1	-1	0.2	0.1	-0.1	-0.94	-0.95	1	1	0	900	900	0
10/23/2024 10:12	11205	ELHE_T1	1	1	0	7.4	0	-7.4	0	0	0	0	0	0	0	0
10/23/2024 10:12	11203	ELHE_T1	0	0	0	0	0	0	0.88	0.9	0	0	0	0	0	0
10/23/2024 10:13	63501	HEID_TBK1-2	3	2	-1	0.43	0.8	0.37	1.56	1.71	0	0	0	0	0	0
10/23/2024 10:14	63501	HEID_TBK1-2	3	2	-1	0.43	0.8	0.37	0.52	0.57	0	0	0	0	0	0
10/23/2024 10:14	10805	CHHI_T2	1	1	0	7.6	7.5	-0.1	-1.34	-1.32	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/23/2024 10:15	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 10:15	41801	GOCI_T2	0	5	5	0	0.26	0.26	0	0	0	0	0	0	0	0
10/23/2024 10:16	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 10:16	65503	MOJO_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/23/2024 10:17	63501	HEID_TBK1-2	2	1	-1	0.8	1.5	0.7	0.52	0.57	0	0	0	0	0	0
10/23/2024 10:17	65503	MOJO_T2	0	2	2	0	0.3	0.3	0.07	-1.03	0	1	1	0	900	900
10/23/2024 10:18	54505	ENOL_T2	1	2	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
10/23/2024 10:18	54501	ENOL_T2	4	4	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
10/23/2024 10:18	54502	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
10/23/2024 10:18	54506	ENOL_T2	0	0	0	0	0	0	0.47	0.51	1	1	0	600	600	0
10/23/2024 10:18	54701	NEBI_T1	8	8	0	0.75	1.04	0.29	0	0	0	0	0	0	0	0
10/23/2024 10:20	55002	NEWP_T1	4	5	1	0.85	1.1	0.25	0	0	0	0	0	0	0	0
10/23/2024 10:20	55001	NEWP_T1	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
10/23/2024 10:21	66502	SMAN_T2	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/23/2024 10:21	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.69	-0.49	0	0	0	0	0	0
10/23/2024 10:21	66501	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/23/2024 10:21	24202	PROV_T4	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/23/2024 10:23	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.35	-0.25	0	0	0	0	0	0
10/23/2024 10:23	66501	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/23/2024 10:23	66502	SMAN_T2	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/23/2024 10:24	64802	MONE_T2	15	27	12	0.23	0.26	0.03	0.26	0.24	0	0	0	0	0	0
10/23/2024 10:24	45501	DERR_T2	1	1	0	1.3	1.6	0.3	0.92	1.08	2	2	0	1800	1800	0
10/23/2024 10:24	64801	MONE_T2	1	8	7	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
10/23/2024 10:29	48902	FOSP_T2	0	1	1	0	0.2	0.2	0.38	0.42	0	0	0	0	0	0
10/23/2024 10:29	48901	FOSP_T2	0	0	0	0	0	0	-0.06	-0.01	1	1	0	600	600	0
10/23/2024 10:30	57106	SPHI_T2	3	3	0	1.03	0.93	-0.1	0	0	0	0	0	0	0	0
10/23/2024 10:30	57101	SPHI_T2	5	5	0	1	0.96	-0.04	0	0	0	0	0	0	0	0
10/23/2024 10:30	48901	FOSP_T2	0	0	0	0	0	0	-0.12	-0.03	2	2	0	1200	1200	0
10/23/2024 10:30	57104	SPHI_T2	3	1	-2	3.9	1.1	-2.8	-0.5	-0.5	0	0	0	0	0	0
10/23/2024 10:30	48902	FOSP_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/23/2024 10:31	53501	EVIL_T2	2	2	0	0.4	0.5	0.1	0.17	0.21	0	0	0	0	0	0
10/23/2024 10:32	48902	FOSP_T2	1	1	0	0.1	0.2	0.1	0.38	0.42	0	0	0	0	0	0
10/23/2024 10:34	65601	QVIL_T2	1	1	0	0.4	1	0.6	-1.16	-1.05	1	1	0	900	900	0
10/23/2024 10:35	13704	SCHN_T2	1	1	0	0.1	0.2	0.1	-0.32	-0.29	0	0	0	0	0	0
10/23/2024 10:35	65601	QVIL_T2	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
10/23/2024 10:35	13701	SCHN_T2	2	3	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
10/23/2024 10:37	54601	SUMM_T2	9	10	1	0.54	0.34	-0.2	-3.25	-3.22	1	1	0	1200	1200	0
10/23/2024 10:37	54602	SUMM_T2	16	16	0	0.39	0.32	-0.07	0	0	0	0	0	0	0	0
10/23/2024 10:38	54602	SUMM_T2	16	16	0	0.39	0.32	-0.07	0	0	0	0	0	0	0	0
10/23/2024 10:38	43104	SMIL_T2	4	4	0	0.48	0.65	0.17	0	0	0	0	0	0	0	0
10/23/2024 10:38	43102	SMIL_T2	7	7	0	1.03	0.97	-0.06	-0.77	-0.78	1	1	0	600	600	0
10/23/2024 10:38	14401	SSLA_T1	1	1	0	0.8	1.3	0.5	-0.53	-0.52	0	0	0	0	0	0
10/23/2024 10:38	67605	WARW_T1	41	41	0	0.47	0.55	0.08	0	0	0	0	0	0	0	0
10/23/2024 10:38	14404	SSLA_T1	3	3	0	0.17	0.3	0.13	-0.07	-0.08	0	0	0	0	0	0
10/23/2024 10:38	14801	TREI_T2	1	3	2	0.2	0.27	0.07	0.25	0.26	0	0	0	0	0	0
10/23/2024 10:38	43108	SMIL_T2	1	3	2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/23/2024 10:38	14403	SSLA_T1	2	4	2	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/23/2024 10:38	43101	SMIL_T2	2	3	1	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
10/23/2024 10:38	67603	WARW_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/23/2024 10:38	14802	TREI_T2	1	2	1	0.1	0.2	0.1	0.31	0.35	0	0	0	0	0	0
10/23/2024 10:38	55002	NEWP_T1	5	4	-1	1.06	1	-0.06	-0.25	-0.24	0	0	0	0	0	0
10/23/2024 10:38	54601	SUMM_T2	9	10	1	0.54	0.34	-0.2	-3.25	-3.22	1	1	0	1200	1200	0
10/23/2024 10:38	43103	SMIL_T2	22	29	7	1.11	0.99	-0.12	0	0	0	0	0	0	0	0
10/23/2024 10:38	14402	SSLA_T1	3	2	-1	3.1	0.4	-2.7	0	0	0	0	0	0	0	0
10/23/2024 10:38	43105	SMIL_T2	22	19	-3	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
10/23/2024 10:39	67603	WARW_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/23/2024 10:39	43103	SMIL_T2	22	29	7	1.11	0.99	-0.12	-0.99	-0.98	0	0	0	0	0	0
10/23/2024 10:39	43105	SMIL_T2	22	19	-3	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
10/23/2024 10:39	43101	SMIL_T2	2	3	1	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
10/23/2024 10:39	54601	SUMM_T2	9	10	1	0.54	0.34	-0.2	-3.25	-3.22	1	1	0	1200	1200	0
10/23/2024 10:39	43102	SMIL_T2	7	7	0	1.03	0.97	-0.06	0	0	0	0	0	0	0	0
10/23/2024 10:39	67605	WARW_T1	41	41	0	0.47	0.55	0.08	0	0	0	0	0	0	0	0
10/23/2024 10:39	54602	SUMM_T2	16	16	0	0.39	0.32	-0.07	0	0	0	0	0	0	0	0
10/23/2024 10:39	43104	SMIL_T2	4	4	0	0.48	0.65	0.17	-0.53	-0.51	0	0	0	0	0	0
10/23/2024 10:39	43108	SMIL_T2	1	3	2	0.2	0.1	-0.1	-0.87	-0.87	1	1	0	1200	1200	0
10/23/2024 10:40	67603	WARW_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/23/2024 10:40	67605	WARW_T1	41	41	0	0.47	0.55	0.08	-1.08	-1.07	0	0	0	0	0	0
10/23/2024 10:40	55101	WERT_T1	0	0	0	0	0	0	-0.65	-0.7	1	1	0	600	600	0
10/23/2024 10:41	43102	SMIL_T2	7	7	0	1.03	0.97	-0.06	0	0	0	0	0	0	0	0
10/23/2024 10:41	15001	BLMO_T1	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
10/23/2024 10:41	43108	SMIL_T2	1	3	2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/23/2024 10:41	43105	SMIL_T2	22	19	-3	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
10/23/2024 10:41	43101	SMIL_T2	2	3	1	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
10/23/2024 10:41	43103	SMIL_T2	22	29	7	1.11	0.99	-0.12	0	0	0	0	0	0	0	0
10/23/2024 10:41	43104	SMIL_T2	4	4	0	0.48	0.65	0.17	-0.53	-0.51	0	0	0	0	0	0
10/23/2024 10:41	55101	WERT_T1	0	0	0	0	0	0	-0.65	-0.7	1	1	0	600	600	0
10/23/2024 10:42	43105	SMIL_T2	22	19	-3	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
10/23/2024 10:42	15001	BLMO_T1	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
10/23/2024 10:42	43101	SMIL_T2	2	3	1	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
10/23/2024 10:42	43104	SMIL_T2	4	4	0	0.48	0.65	0.17	-0.53	-0.51	0	0	0	0	0	0
10/23/2024 10:42	43108	SMIL_T2	1	3	2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/23/2024 10:42	43103	SMIL_T2	22	29	7	1.11	0.99	-0.12	-0.99	-0.98	0	0	0	0	0	0
10/23/2024 10:42	43102	SMIL_T2	7	7	0	1.03	0.97	-0.06	0	0	0	0	0	0	0	0
10/23/2024 10:43	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 10:43	43102	SMIL_T2	7	7	0	1.03	0.97	-0.06	0	0	0	0	0	0	0	0
10/23/2024 10:43	43103	SMIL_T2	22	29	7	1.11	0.99	-0.12	0	0	0	0	0	0	0	0
10/23/2024 10:43	67603	WARW_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/23/2024 10:43	43105	SMIL_T2	22	19	-3	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
10/23/2024 10:43	67605	WARW_T1	41	41	0	0.47	0.55	0.08	-3.25	-3.22	0	0	0	0	0	0
10/23/2024 10:43	43104	SMIL_T2	4	4	0	0.48	0.65	0.17	-0.53	-0.51	0	0	0	0	0	0
10/23/2024 10:43	43108	SMIL_T2	1	3	2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/23/2024 10:43	43101	SMIL_T2	2	3	1	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
10/23/2024 10:44	63602	LETO_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/23/2024 10:44	63601	LETO_T1	0	0	0	0	0	0	1.21	1.21	1	1	0	900	900	0
10/23/2024 10:45	64305	LINC_T1	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
10/23/2024 10:45	25402	LAHA_T2	0	0	0	0	0	0	-0.42	-0.38	0	0	0	0	0	0
10/23/2024 10:46	64904	MILL_T1	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
10/23/2024 10:49	59301	MCAL_T1	7	9	2	0.59	0.66	0.07	-1.54	-1.55	1	1	0	600	600	0
10/23/2024 10:50	54001	SDLE_T1	86	115	29	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
10/23/2024 10:51	57401	SPAN_T1	2	2	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
10/23/2024 10:51	57403	SPAN_T1	27	27	0	0.32	0.25	-0.07	-0.09	-0.07	0	0	0	0	0	0
10/23/2024 10:51	54001	SDLE_T1	86	115	29	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
10/23/2024 10:52	13701	SCHN_T2	3	2	-1	0.33	0.4	0.07	0	0	0	0	0	0	0	0
10/23/2024 10:52	13704	SCHN_T2	1	1	0	0.2	0.1	-0.1	-0.29	-0.31	0	0	0	0	0	0
10/23/2024 10:53	66504	SMAN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/23/2024 10:53	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/23/2024 10:53	54001	SDLE_T1	86	115	29	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
10/23/2024 10:53	66502	SMAN_T2	2	1	-1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
10/23/2024 10:55	43102	SMIL_T2	7	7	0	0.97	0.96	-0.01	-0.78	-0.76	1	1	0	600	600	0
10/23/2024 10:55	46001	BERW_T1	1	1	0	0.4	0.6	0.2	0.7	0.65	0	0	0	0	0	0
10/23/2024 10:55	43108	SMIL_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/23/2024 10:55	43103	SMIL_T2	25	28	3	1.08	0.9	-0.18	0	0	0	0	0	0	0	0
10/23/2024 10:55	43104	SMIL_T2	4	4	0	0.58	0.58	0	0	0	0	0	0	0	0	0
10/23/2024 10:55	43101	SMIL_T2	3	2	-1	0.33	0.75	0.42	0	0	0	0	0	0	0	0
10/23/2024 10:55	43105	SMIL_T2	19	15	-4	0.41	0.33	-0.08	0	0	0	0	0	0	0	0
10/23/2024 10:56	14203	EALL_T1	3	2	-1	0.33	0.4	0.07	1.12	1.09	0	0	0	0	0	0
10/23/2024 10:58	43102	SMIL_T2	7	7	0	0.97	0.96	-0.01	0	0	0	0	0	0	0	0
10/23/2024 10:58	43105	SMIL_T2	19	15	-4	0.41	0.33	-0.08	0	0	0	0	0	0	0	0
10/23/2024 10:58	43108	SMIL_T2	3	0	-3	0.1	0	-0.1	-0.87	-0.83	1	1	0	1200	1200	0
10/23/2024 10:58	43103	SMIL_T2	25	28	3	1.08	0.9	-0.18	0	0	0	0	0	0	0	0
10/23/2024 10:58	43101	SMIL_T2	3	2	-1	0.33	0.75	0.42	0	0	0	0	0	0	0	0
10/23/2024 10:58	43104	SMIL_T2	4	4	0	0.58	0.58	0	0	0	0	0	0	0	0	0
10/23/2024 11:01	41801	GOCI_T2	3	7	4	0.47	0.39	-0.08	0	0	0	0	0	0	0	0
10/23/2024 11:01	64303	LINC_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
10/23/2024 11:06	66505	SMAN_T2	0	0	0	0	0	0	0.9	0.96	1	1	0	900	900	0
10/23/2024 11:06	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/23/2024 11:06	59201	THOM_T1	1	11	10	1.4	0.25	-1.15	0	0	0	0	0	0	0	0
10/23/2024 11:06	15702	TANN_T2	0	1	1	0	0.2	0.2	-0.42	-0.37	0	0	0	0	0	0
10/23/2024 11:06	66502	SMAN_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
10/23/2024 11:06	14404	SSLA_T1	3	4	1	0.27	0.18	-0.09	0	0	0	0	0	0	0	0
10/23/2024 11:06	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
10/23/2024 11:06	14401	SSLA_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
10/23/2024 11:06	66504	SMAN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/23/2024 11:06	14402	SSLA_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
10/23/2024 11:06	14403	SSLA_T1	3	2	-1	0.37	0.6	0.23	0.59	0.56	0	0	0	0	0	0
10/23/2024 11:06	59202	THOM_T1	28	73	45	0.26	0.28	0.02	0	0	0	0	0	0	0	0
10/23/2024 11:08	20401	ASHF_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/23/2024 11:08	14802	TREI_T2	1	0	-1	0.1	0	-0.1	0.37	0.39	0	0	0	0	0	0
10/23/2024 11:08	43801	SWIL_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
10/23/2024 11:08	20403	ASHF_T2	3	6	3	0.17	0.25	0.08	1.07	0.96	0	0	0	0	0	0
10/23/2024 11:08	14801	TREI_T2	1	3	2	0.5	1.93	1.43	0	0	0	0	0	0	0	0
10/23/2024 11:08	13503	MCMI_T2	1	1	0	1	1	0	-0.01	-0.01	0	0	0	0	0	0
10/23/2024 11:08	43802	SWIL_T1	0	1	1	0	0	0	-0.24	-0.22	1	1	0	600	600	0
10/23/2024 11:09	59202	THOM_T1	28	73	45	0.26	0.28	0.02	0	0	0	0	0	0	0	0
10/23/2024 11:09	14801	TREI_T2	1	3	2	0.5	1.93	1.43	0	0	0	0	0	0	0	0
10/23/2024 11:09	59201	THOM_T1	1	11	10	1.4	0.25	-1.15	0	0	0	0	0	0	0	0
10/23/2024 11:09	14802	TREI_T2	1	0	-1	0.1	0	-0.1	0.74	0.78	0	0	0	0	0	0
10/23/2024 11:10	20401	ASHF_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/23/2024 11:10	20403	ASHF_T2	3	6	3	0.17	0.25	0.08	1.07	0.96	0	0	0	0	0	0
10/23/2024 11:10	59202	THOM_T1	28	73	45	0.26	0.28	0.02	0	0	0	0	0	0	0	0
10/23/2024 11:10	14801	TREI_T2	1	3	2	0.5	1.93	1.43	0	0	0	0	0	0	0	0
10/23/2024 11:10	14802	TREI_T2	1	0	-1	0.1	0	-0.1	0.37	0.39	0	0	0	0	0	0
10/23/2024 11:10	59201	THOM_T1	1	11	10	1.4	0.25	-1.15	0	0	0	0	0	0	0	0
10/23/2024 11:11	67402	WAKE_T2	0	0	0	0	0	0	0.35	0.38	1	1	0	600	600	0
10/23/2024 11:11	67401	WAKE_T2	1	2	1	0.6	0.65	0.05	0	0	0	0	0	0	0	0
10/23/2024 11:11	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
10/23/2024 11:11	15702	TANN_T2	0	1	1	0	0.2	0.2	-0.42	-0.37	0	0	0	0	0	0
10/23/2024 11:12	15702	TANN_T2	0	1	1	0	0.2	0.2	-0.42	-0.37	0	0	0	0	0	0
10/23/2024 11:12	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.03	-0.02	1	1	0	600	600	0
10/23/2024 11:12	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
10/23/2024 11:12	45501	DERR_T2	1	1	0	0.8	1.3	0.5	0.96	0.87	2	2	0	1800	1800	0
10/23/2024 11:13	45501	DERR_T2	1	1	0	0.8	1.3	0.5	0.96	0.87	2	2	0	1800	1800	0
10/23/2024 11:16	45902	AUBU_T1	0	1	1	0	0.3	0.3	-0.03	-0.02	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/23/2024 11:37	66504	SMAN_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
10/23/2024 11:37	23201	HIRU_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/23/2024 11:37	66505	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/23/2024 11:37	66701	STRA_T1	0	0	0	0	0	0	0.63	0.67	0	0	0	0	0	0
10/23/2024 11:37	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/23/2024 11:37	66502	SMAN_T2	1	2	1	0.5	0.3	-0.2	0.14	0.23	0	0	0	0	0	0
10/23/2024 11:37	66703	STRA_T1	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
10/23/2024 11:37	23202	HIRU_T2	0	1	1	0	0.1	0.1	0.07	0.09	0	0	0	0	0	0
10/23/2024 11:38	42501	ALTA_T2	0	0	0	0	0	0	-0.07	-0.02	1	1	0	600	600	0
10/23/2024 11:38	61001	DONV_T1	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
10/23/2024 11:38	55002	NEWP_T1	2	5	3	1.5	1.28	-0.22	-0.44	-0.46	0	0	0	0	0	0
10/23/2024 11:39	54504	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/23/2024 11:39	54502	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/23/2024 11:39	54501	ENOL_T2	3	3	0	0.13	0.23	0.1	-0.57	-0.57	1	1	0	600	600	0
10/23/2024 11:39	15103	UPHA_T2	2	2	0	0.4	0.45	0.05	0.4	0.39	0	0	0	0	0	0
10/23/2024 11:39	54505	ENOL_T2	2	2	0	0.6	0.55	-0.05	-1.4	-1.4	1	1	0	600	600	0
10/23/2024 11:39	42501	ALTA_T2	0	0	0	0	0	0	-0.07	-0.02	1	1	0	600	600	0
10/23/2024 11:39	43402	BENT_T1	1	6	5	0.3	0.4	0.1	-2.59	-2.58	4	4	0	3000	3000	0
10/23/2024 11:40	67503	WEWI_T2	1	1	0	9.3	9.3	0	-0.26	-0.24	0	0	0	0	0	0
10/23/2024 11:40	60201	ATGL_T2	3	2	-1	0.3	0.45	0.15	-0.1	-0.11	0	0	0	0	0	0
10/23/2024 11:40	67502	WEWI_T2	16	6	-10	0.33	0.5	0.17	-0.15	-0.17	0	0	0	0	0	0
10/23/2024 11:41	54504	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/23/2024 11:41	54502	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/23/2024 11:41	54501	ENOL_T2	3	3	0	0.13	0.23	0.1	-0.57	-0.57	1	1	0	600	600	0
10/23/2024 11:41	67502	WEWI_T2	16	6	-10	0.33	0.5	0.17	-0.15	-0.17	0	0	0	0	0	0
10/23/2024 11:41	54505	ENOL_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
10/23/2024 11:41	67503	WEWI_T2	1	1	0	9.3	9.3	0	0	0	0	0	0	0	0	0
10/23/2024 11:41	55002	NEWP_T1	2	5	3	1.5	1.28	-0.22	-0.22	-0.23	0	0	0	0	0	0
10/23/2024 11:41	42501	ALTA_T2	0	0	0	0	0	0	-0.07	-0.02	1	1	0	600	600	0
10/23/2024 11:53	67605	WARW_T1	19	17	-2	0.48	0.49	0.01	0	0	0	0	0	0	0	0
10/23/2024 11:53	44801	EDAN_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
10/23/2024 11:53	67603	WARW_T1	2	2	0	0.5	0.6	0.1	0.02	-0.01	0	0	0	0	0	0
10/23/2024 11:53	12002	HATF_T1	1	0	-1	2.8	0	-2.8	0	0	0	0	0	0	0	0
10/23/2024 11:53	44802	EDAN_T2	0	0	0	0	0	0	-0.81	-0.76	0	0	0	0	0	0
10/23/2024 11:53	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 11:54	46004	BERW_T2	0	0	0	0	0	0	0.06	0.15	0	0	0	0	0	0
10/23/2024 11:54	17804	GILB_T2	4	8	4	0.55	0.41	-0.14	-0.6	-0.62	0	0	0	0	0	0
10/23/2024 11:54	64203	KINZ_T1	0	0	0	0	0	0	0.83	1.04	2	2	0	900	900	0
10/23/2024 11:54	14307	SUMN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 11:54	67401	WAKE_T2	2	2	0	0.9	0.65	-0.25	-0.99	-0.97	0	0	0	0	0	0
10/23/2024 11:54	42902	MIDD_T2	0	10	10	0	0.52	0.52	-0.35	-0.67	1	1	0	600	600	0
10/23/2024 11:54	44801	EDAN_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
10/23/2024 11:54	14203	EALL_T1	2	2	0	0.55	0.65	0.1	1.18	1.19	0	0	0	0	0	0
10/23/2024 11:54	23202	HIRU_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/23/2024 11:54	46803	HEPB_T2	3	5	2	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
10/23/2024 11:54	63401	HONY_T1	0	0	0	0	0	0	1.67	1.69	0	0	0	0	0	0
10/23/2024 11:54	64202	KINZ_T1	3	2	-1	0.43	0.15	-0.28	0	0	0	0	0	0	0	0
10/23/2024 11:54	46002	BERW_T2	0	0	0	0	0	0	-0.77	-0.84	1	1	0	900	900	0
10/23/2024 11:54	64204	KINZ_T1	9	3	-6	0.33	0.53	0.2	0	0	0	0	0	0	0	0
10/23/2024 11:54	67603	WARW_T1	2	2	0	0.5	0.6	0.1	0.08	-0.04	0	0	0	0	0	0
10/23/2024 11:54	23201	HIRU_T2	0	3	3	0	0.27	0.27	0.13	0.13	0	0	0	0	0	0
10/23/2024 11:54	46801	HEPB_T2	2	3	1	1.3	1.03	-0.27	0.57	0.58	0	0	0	0	0	0
10/23/2024 11:54	42903	MIDD_T2	0	5	5	0	0.54	0.54	0	0	0	0	0	0	0	0
10/23/2024 11:54	67605	WARW_T1	19	17	-2	0.48	0.49	0.01	0	0	0	0	0	0	0	0
10/23/2024 11:54	44802	EDAN_T2	0	0	0	0	0	0	-0.81	-0.76	0	0	0	0	0	0
10/23/2024 11:54	14301	SUMN_T1	0	0	0	0	0	0	-2.46	-2.06	0	0	0	0	0	0
10/23/2024 11:54	14306	SUMN_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
10/23/2024 11:54	14303	SUMN_T1	3	3	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
10/23/2024 11:54	17805	GILB_T2	4	7	3	0.48	0.74	0.26	0	0	0	0	0	0	0	0
10/23/2024 11:54	14201	EALL_T1	0	0	0	0	0	0	1.29	1.21	0	0	0	0	0	0
10/23/2024 11:55	60904	DONG_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
10/23/2024 11:55	43101	SMIL_T2	2	4	2	0.55	0.48	-0.07	-0.72	-0.68	0	0	0	0	0	0
10/23/2024 11:55	46002	BERW_T2	0	0	0	0	0	0	-2.31	-2.52	3	3	0	2700	2700	0
10/23/2024 11:55	43104	SMIL_T2	4	4	0	0.5	0.75	0.25	0	0	0	0	0	0	0	0
10/23/2024 11:55	43102	SMIL_T2	6	6	0	0.85	0.6	-0.25	0	0	0	0	0	0	0	0
10/23/2024 11:55	43103	SMIL_T2	25	31	6	0.88	0.85	-0.03	0	0	0	0	0	0	0	0
10/23/2024 11:55	14201	EALL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 11:55	44801	EDAN_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
10/23/2024 11:55	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 11:55	17804	GILB_T2	4	8	4	0.55	0.41	-0.14	0	0	0	0	0	0	0	0
10/23/2024 11:55	15204	SFAR_T2	3	2	-1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/23/2024 11:55	46004	BERW_T2	0	0	0	0	0	0	0.12	0.29	0	0	0	0	0	0
10/23/2024 11:55	12001	HATF_T1	0	0	0	0	0	0	1.72	1.61	1	1	0	600	600	0
10/23/2024 11:55	42903	MIDD_T2	0	5	5	0	0.54	0.54	0	0	0	0	0	0	0	0
10/23/2024 11:55	12002	HATF_T1	1	0	-1	2.8	0	-2.8	1.27	0.96	2	2	0	2400	2400	0
10/23/2024 11:55	42902	MIDD_T2	0	10	10	0	0.52	0.52	-0.35	-0.67	1	1	0	600	600	0
10/23/2024 11:55	44802	EDAN_T2	0	0	0	0	0	0	-0.81	-0.76	0	0	0	0	0	0
10/23/2024 11:55	17805	GILB_T2	4	7	3	0.48	0.74	0.26	0.27	0.32	0	0	0	0	0	0
10/23/2024 11:55	15203	SFAR_T2	4	5	1	0.5	0.58	0.08	-1.21	-1.2	0	0	0	0	0	0
10/23/2024 11:55	43105	SMIL_T2	9	9	0	0.34	0.37	0.03	0	0	0	0	0	0	0	0
10/23/2024 11:55	14303	SUMN_T1	3	3	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
10/23/2024 11:55	14203	EALL_T1	2	2	0	0.55	0.65	0.1	1.18	1.19	0	0	0	0	0	0
10/23/2024 11:55	14307	SUMN_T1	0	0	0	0	0	0	-0.21	-0.25	1	1	0	900	900	0
10/23/2024 11:56	43103	SMIL_T2	25	31	6	0.88	0.85	-0.03	-2.71	-2.71	0	0	0	0	0	0
10/23/2024 11:56	11601	CEAL_T1	1	1	0	0.1	0.4	0.3	0	0	3	3	0	3600	3600	0
10/23/2024 11:56	13503	MCMI_T2	1	1	0	1.2	1.3	0.1	-0.01	-0.01	0	0	0	0	0	0
10/23/2024 11:56	64201	KINZ_T1	0	0	0	0	0	0	-1.42	-1.53	9	9	0	4500	4500	0
10/23/2024 11:56	67603	WARW_T1	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/23/2024 11:56	43105	SMIL_T2	9	9	0	0.34	0.37	0.03	0	0	0	0	0	0	0	0
10/23/2024 11:56	17805	GILB_T2	4	7	3	0.48	0.74	0.26	0.27	0.32	0	0	0	0	0	0
10/23/2024 11:56	44801	EDAN_T2	2	2	0	0.5	0.65	0.15	-0.48	-0.49	0	0	0	0	0	0
10/23/2024 11:56	67804	WLAN_T1	10	13	3	0.25	0.28	0.03	0	0	0	0	0	0	0	0
10/23/2024 11:56	67805	WLAN_T1	0	1	1	0	0.1	0.1	-0.66	-1.06	0	0	0	0	0	0
10/23/2024 11:56	14301	SUMN_T1	0	0	0	0	0	0	-1.23	-1.03	0	0	0	0	0	0
10/23/2024 11:56	67401	WAKE_T2	2	2	0	0.9	0.65	-0.25	-0.99	-0.97	0	0	0	0	0	0
10/23/2024 11:56	14303	SUMN_T1	3	3	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
10/23/2024 11:56	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 11:56	43104	SMIL_T2	4	4	0	0.5	0.75	0.25	0	0	0	0	0	0	0	0
10/23/2024 11:56	12002	HATF_T1	1	0	-1	2.8	0	-2.8	0	0	0	0	0	0	0	0
10/23/2024 11:56	67605	WARW_T1	19	17	-2	0.48	0.49	0.01	-0.99	-1.01	0	0	0	0	0	0
10/23/2024 11:56	17804	GILB_T2	4	8	4	0.55	0.41	-0.14	0	0	0	0	0	0	0	0
10/23/2024 11:56	67803	WLAN_T1	2	4	2	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
10/23/2024 11:56	43101	SMIL_T2	2	4	2	0.55	0.48	-0.07	0	0	0	0	0	0	0	0
10/23/2024 11:56	64202	KINZ_T1	3	2	-1	0.43	0.15	-0.28	0	0	0	0	0	0	0	0
10/23/2024 11:56	14307	SUMN_T1	0	0	0	0	0	0	-0.21	-0.25	1	1	0	900	900	0
10/23/2024 11:56	43102	SMIL_T2	6	6	0	0.85	0.6	-0.25	0	0	0	0	0	0	0	0
10/23/2024 11:56	64204	KINZ_T1	9	3	-6	0.33	0.53	0.2	0	0	0	0	0	0	0	0
10/23/2024 11:56	14306	SUMN_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
10/23/2024 11:56	67402	WAKE_T2	0	0	0	0	0	0	0.43	0.42	1	1	0	600	600	0
10/23/2024 11:56	11202	ELHE_T2	0	0	0	0	0	0	1	0.51	1	1	0	1200	1200	0
10/23/2024 11:56	44802	EDAN_T2	0	0	0	0	0	0	-0.81	-0.76	0	0	0	0	0	0
10/23/2024 11:56	12007	HATF_T1	0	0	0	0	0	0	0.95	0.79	3	3	0	3000	3000	0
10/23/2024 11:57	14203	EALL_T1	2	2	0	0.55	0.65	0.1	1.18	1.19	0	0	0	0	0	0
10/23/2024 11:57	12003	HATF_T1	0	0	0	0	0	0	0.42	0.41	1	1	0	1200	1200	0
10/23/2024 11:57	44503	HAMI_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
10/23/2024 11:57	17802	GILB_T1	5	6	1	0.82	0.8	-0.02	0.04	0.08	0	0	0	0	0	0
10/23/2024 11:57	51102	CARL_T1	1	1	0	2.4	2.8	0.4	0	0	0	0	0	0	0	0
10/23/2024 11:57	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 11:57	46803	HEPB_T2	3	5	2	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
10/23/2024 11:57	14301	SUMN_T1	0	0	0	0	0	0	-2.46	-2.06	0	0	0	0	0	0
10/23/2024 11:57	17805	GILB_T2	4	7	3	0.48	0.74	0.26	0.27	0.32	0	0	0	0	0	0
10/23/2024 11:57	14307	SUMN_T1	0	0	0	0	0	0	-0.21	-0.25	1	1	0	900	900	0
10/23/2024 11:57	44802	EDAN_T2	0	0	0	0	0	0	-1.61	-1.52	0	0	0	0	0	0
10/23/2024 11:57	14306	SUMN_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
10/23/2024 11:57	51108	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 11:57	12002	HATF_T1	1	0	-1	2.8	0	-2.8	0	0	0	0	0	0	0	0
10/23/2024 11:57	51101	CARL_T1	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
10/23/2024 11:57	46801	HEPB_T2	2	3	1	1.3	1.03	-0.27	0.57	0.58	0	0	0	0	0	0
10/23/2024 11:57	17804	GILB_T2	4	8	4	0.55	0.41	-0.14	0	0	0	0	0	0	0	0
10/23/2024 11:57	44502	HAMI_T2	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
10/23/2024 11:57	52502	PROG_T2	0	0	0	0	0	0	-0.72	-0.72	1	1	0	900	900	0
10/23/2024 11:57	46004	BERW_T2	0	0	0	0	0	0	0.06	0.15	0	0	0	0	0	0
10/23/2024 11:57	14303	SUMN_T1	3	3	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
10/23/2024 11:57	14308	SUMN_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
10/23/2024 11:57	11601	CEAL_T1	1	1	0	0.1	0.4	0.3	0	0	1	1	0	1200	1200	0
10/23/2024 11:57	44801	EDAN_T2	2	2	0	0.5	0.65	0.15	-0.48	-0.49	0	0	0	0	0	0
10/23/2024 11:58	63402	HONY_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
10/23/2024 11:58	64202	KINZ_T1	3	2	-1	0.43	0.15	-0.28	0	0	0	0	0	0	0	0
10/23/2024 11:58	63403	HONY_T2	0	0	0	0	0	0	-0.38	-0.37	1	1	0	600	600	0
10/23/2024 11:58	17802	GILB_T1	5	6	1	0.82	0.8	-0.02	0.04	0.08	0	0	0	0	0	0
10/23/2024 11:58	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 11:58	41304	FISH_T2	1	1	0	0	0	0	0.31	0.28	0	0	0	0	0	0
10/23/2024 11:58	15204	SFAR_T2	3	2	-1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/23/2024 11:58	24102	EHAZ_T1	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
10/23/2024 11:58	14201	EALL_T1	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
10/23/2024 11:58	15203	SFAR_T2	4	5	1	0.5	0.58	0.08	-2.42	-2.4	0	0	0	0	0	0
10/23/2024 11:58	67603	WARW_T1	2	2	0	0.5	0.6	0.1	0.02	0.01	0	0	0	0	0	0
10/23/2024 11:58	52202	DEVO_T2	0	0	0	0	0	0	-0.08	-0.04	0	0	0	0	0	0
10/23/2024 11:58	67503	WEWI_T2	1	1	0	9.3	9.1	-0.2	0	0	0	0	0	0	0	0
10/23/2024 11:58	12002	HATF_T1	1	0	-1	2.8	0	-2.8	0.63	0.48	1	1	0	1200	1200	0
10/23/2024 11:58	41302	FISH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 11:58	67502	WEWI_T2	6	7	1	0.5	0.41	-0.09	-0.17	-0.12	0	0	0	0	0	0
10/23/2024 11:58	54701	NEBL_T1	8	8	0	0.75	0.98	0.23	0	0	0	0	0	0	0	0
10/23/2024 11:58	24105	EHAZ_T1	4	4	0	6.68	6.45	-0.23	0	0	0	0	0	0	0	0
10/23/2024 11:58	12001	HATF_T1	0	0	0	0	0	0	1.72	1.61	1	1	0	600	600	0
10/23/2024 11:58	52502	PROG_T2	0	0	0	0	0	0	-0.72	-0.72	1	1	0	900	900	0
10/23/2024 11:58	24101	EHAZ_T1	2	1	-1	0.8	2.2	1.4	0	0	0	0	0	0	0	0
10/23/2024 11:58	14203	EALL_T1	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
10/23/2024 11:58	67605	WARW_T1	19	17	-2	0.48	0.49	0.01	-0.99	-1.01	0	0	0	0	0	0
10/23/2024 11:58	64204	KINZ_T1	9	3	-6	0.33	0.53	0.2	0	0	0	0	0	0	0	0
10/23/2024 12:04	40602	PIGR_T1	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
10/23/2024 12:04	40603	PIGR_T1	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
10/23/2024 12:04	40601	PIGR_T1	91	128	37	0.25	0.4	0.15	-0.4	-0.33	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/23/2024 12:05	40601	PIGR_T1	91	128	37	0.25	0.4	0.15	0	0	0	0	0	0	0	0
10/23/2024 12:05	40602	PIGR_T1	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
10/23/2024 12:05	40603	PIGR_T1	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
10/23/2024 12:08	40602	PIGR_T1	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
10/23/2024 12:08	40603	PIGR_T1	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
10/23/2024 12:08	40601	PIGR_T1	91	128	37	0.25	0.4	0.15	-0.33	-0.41	0	0	0	0	0	0
10/23/2024 12:08	55105	WERT_T1	0	0	0	0	0	0	-0.69	-0.69	1	1	0	900	900	0
10/23/2024 12:09	40603	PIGR_T1	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
10/23/2024 12:09	40602	PIGR_T1	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
10/23/2024 12:09	40601	PIGR_T1	91	128	37	0.25	0.4	0.15	0	0	0	0	0	0	0	0
10/23/2024 12:11	21204	ECAR_T2	1	1	0	0	0	0	0.21	-0.76	0	0	0	0	0	0
10/23/2024 12:11	21206	ECAR_T2	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
10/23/2024 12:12	48902	FOSP_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/23/2024 12:12	48901	FOSP_T2	0	1	1	0	0.2	0.2	-0.1	-0.08	1	1	0	600	600	0
10/23/2024 12:12	44801	EDAN_T2	2	2	0	0.65	0.6	-0.05	-0.49	-0.43	0	0	0	0	0	0
10/23/2024 12:13	46005	BERW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 12:13	46001	BERW_T1	1	1	0	0.5	0.6	0.1	0.58	0.54	0	0	0	0	0	0
10/23/2024 12:14	63601	LETO_T1	0	0	0	0	0	0	0.52	0.45	2	2	0	2100	2100	0
10/23/2024 12:14	63602	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/23/2024 12:15	46005	BERW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 12:15	45701	LIND_T2	1	1	0	0.3	0.3	0	-1.6	-1.59	0	0	0	0	0	0
10/23/2024 12:15	45702	LIND_T2	4	5	1	0.85	0.78	-0.07	-0.55	-0.57	0	0	0	0	0	0
10/23/2024 12:15	46001	BERW_T1	1	1	0	0.5	0.6	0.1	0.58	0.54	0	0	0	0	0	0
10/23/2024 12:19	43103	SMIL_T2	29	29	0	0.83	0.93	0.1	0	0	0	0	0	0	0	0
10/23/2024 12:19	58402	MORO_T1	0	0	0	0	0	0	-0.13	-0.12	2	2	0	1500	1500	0
10/23/2024 12:19	45701	LIND_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/23/2024 12:19	43101	SMIL_T2	3	2	-1	0.43	0.8	0.37	0	0	0	0	0	0	0	0
10/23/2024 12:19	43104	SMIL_T2	4	4	0	0.75	0.7	-0.05	-0.51	-0.52	0	0	0	0	0	0
10/23/2024 12:19	45702	LIND_T2	4	5	1	0.85	0.78	-0.07	-0.55	-0.57	0	0	0	0	0	0
10/23/2024 12:19	43105	SMIL_T2	8	9	1	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
10/23/2024 12:19	43102	SMIL_T2	5	6	1	0.68	0.62	-0.06	0	0	0	0	0	0	0	0
10/23/2024 12:20	58401	MORO_T1	0	0	0	0	0	0	-1.02	-0.98	1	1	0	600	600	0
10/23/2024 12:21	58401	MORO_T1	0	0	0	0	0	0	-1.02	-0.98	1	1	0	600	600	0
10/23/2024 12:27	67002	STHI_T2	20	18	-2	0.34	0.34	0	0.76	0.74	0	0	0	0	0	0
10/23/2024 12:27	67001	STHI_T2	9	9	0	0.31	0.27	-0.04	0.09	0.08	0	0	0	0	0	0
10/23/2024 12:28	67001	STHI_T2	9	9	0	0.31	0.27	-0.04	0.09	0.08	0	0	0	0	0	0
10/23/2024 12:28	67002	STHI_T2	20	18	-2	0.34	0.34	0	0.76	0.74	0	0	0	0	0	0
10/23/2024 12:29	67001	STHI_T2	9	9	0	0.31	0.27	-0.04	0	0	0	0	0	0	0	0
10/23/2024 12:29	67002	STHI_T2	20	18	-2	0.34	0.34	0	3.03	2.96	0	0	0	0	0	0
10/23/2024 12:30	40602	PIGR_T1	0	2	2	0	1	1	-0.67	-0.69	1	1	0	600	600	0
10/23/2024 12:30	67002	STHI_T2	18	14	-4	0.33	0.27	-0.06	1.52	1.48	0	0	0	0	0	0
10/23/2024 12:30	40603	PIGR_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/23/2024 12:30	67001	STHI_T2	9	8	-1	0.27	0.18	-0.09	0	0	0	0	0	0	0	0
10/23/2024 12:30	40601	PIGR_T1	0	120	120	0	0.41	0.41	0	0	0	0	0	0	0	0
10/23/2024 12:31	67001	STHI_T2	9	8	-1	0.27	0.18	-0.09	0.18	0.16	0	0	0	0	0	0
10/23/2024 12:31	67703	WERN_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/23/2024 12:31	67002	STHI_T2	18	14	-4	0.33	0.27	-0.06	1.52	1.48	0	0	0	0	0	0
10/23/2024 12:32	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 12:37	67501	WEWI_T1	1	3	2	0.6	0.8	0.2	-0.9	-0.89	1	1	0	600	600	0
10/23/2024 12:37	66702	STRA_T1	0	0	0	0	0	0	-0.75	-0.31	4	4	0	3000	3000	0
10/23/2024 12:37	66701	STRA_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/23/2024 12:38	66701	STRA_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/23/2024 12:38	66702	STRA_T1	0	0	0	0	0	0	-0.38	-0.16	2	2	0	1500	1500	0
10/23/2024 12:40	67501	WEWI_T1	1	3	2	0.6	0.8	0.2	-0.9	-0.89	1	1	0	600	600	0
10/23/2024 12:41	20403	ASHF_T2	13	11	-2	0.58	0.46	-0.12	0	0	0	0	0	0	0	0
10/23/2024 12:41	20401	ASHF_T2	3	2	-1	0.2	0.2	0	-0.24	-0.28	0	0	0	0	0	0
10/23/2024 12:46	55508	HERS_T2	2	2	0	1.2	1.5	0.3	-2.48	-2.48	1	1	0	1200	1200	0
10/23/2024 12:47	55503	HERS_T1	0	0	0	0	0	0	-1.45	-1.47	1	1	0	1200	1200	0
10/23/2024 12:47	55501	HERS_T1	0	52	52	0	0.13	0.13	0	0	0	0	0	0	0	0
10/23/2024 12:50	66501	SMAN_T2	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
10/23/2024 12:50	66504	SMAN_T2	1	1	0	0.6	0.8	0.2	-0.19	-0.05	0	0	0	0	0	0
10/23/2024 12:50	66502	SMAN_T2	5	6	1	0.18	0.2	0.02	0	0	0	0	0	0	0	0
10/23/2024 12:51	66504	SMAN_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/23/2024 12:51	66502	SMAN_T2	5	6	1	0.18	0.2	0.02	0	0	0	0	0	0	0	0
10/23/2024 12:51	66501	SMAN_T2	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
10/23/2024 12:56	43103	SMIL_T2	26	26	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
10/23/2024 12:56	43105	SMIL_T2	5	3	-2	0.46	0.6	0.14	0	0	0	0	0	0	0	0
10/23/2024 12:56	43104	SMIL_T2	4	4	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
10/23/2024 12:56	43101	SMIL_T2	2	2	0	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
10/23/2024 12:56	43102	SMIL_T2	5	6	1	0.62	0.63	0.01	-0.74	-0.73	1	1	0	600	600	0
10/23/2024 12:57	66502	SMAN_T2	5	6	1	0.18	0.2	0.02	0.28	0.41	0	0	0	0	0	0
10/23/2024 12:57	66501	SMAN_T2	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
10/23/2024 12:57	66504	SMAN_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/23/2024 12:59	59201	THOM_T1	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
10/23/2024 12:59	59202	THOM_T1	21	24	3	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
10/23/2024 13:00	52003	LING_T1	23	19	-4	0.57	0.56	-0.01	0	0	0	0	0	0	0	0
10/23/2024 13:00	52001	LING_T1	116	296	180	0.28	0.21	-0.07	0.5	0.5	0	0	0	0	0	0
10/23/2024 13:01	52004	LING_T2	165	193	28	0.34	0.35	0.01	0	0	0	0	0	0	0	0
10/23/2024 13:01	40602	PIGR_T1	2	2	0	0.65	0.75	0.1	-0.72	-0.68	1	1	0	600	600	0
10/23/2024 13:01	52002	LING_T2	8	10	2	0.68	0.58	-0.1	0	0	0	0	0	0	0	0
10/23/2024 13:01	52006	LING_T2	3	2	-1	0.93	1.45	0.52	0	0	0	0	0	0	0	0
10/23/2024 13:01	40603	PIGR_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/23/2024 13:01	40601	PIGR_T1	122	118	-4	0.48	0.41	-0.07	0	0	0	0	0	0	0	0
10/23/2024 13:02	52006	LING_T2	3	2	-1	0.93	1.45	0.52	0	0	0	0	0	0	0	0
10/23/2024 13:02	52002	LING_T2	8	10	2	0.68	0.58	-0.1	0	0	0	0	0	0	0	0
10/23/2024 13:02	52004	LING_T2	165	193	28	0.34	0.35	0.01	0.44	0.45	0	0	0	0	0	0
10/23/2024 13:03	52006	LING_T2	3	2	-1	0.93	1.45	0.52	0	0	0	0	0	0	0	0
10/23/2024 13:03	52002	LING_T2	8	10	2	0.68	0.58	-0.1	0	0	0	0	0	0	0	0
10/23/2024 13:03	52004	LING_T2	165	193	28	0.34	0.35	0.01	0.44	0.45	0	0	0	0	0	0
10/23/2024 13:04	52001	LING_T1	116	296	180	0.28	0.21	-0.07	0.5	0.5	0	0	0	0	0	0
10/23/2024 13:04	52003	LING_T1	23	19	-4	0.57	0.56	-0.01	0	0	0	0	0	0	0	0
10/23/2024 13:05	52004	LING_T2	165	193	28	0.34	0.35	0.01	0.89	0.91	0	0	0	0	0	0
10/23/2024 13:05	52006	LING_T2	3	2	-1	0.93	1.45	0.52	0	0	0	0	0	0	0	0
10/23/2024 13:05	52002	LING_T2	8	10	2	0.68	0.58	-0.1	0	0	0	0	0	0	0	0
10/23/2024 13:06	52002	LING_T2	8	10	2	0.68	0.58	-0.1	0	0	0	0	0	0	0	0
10/23/2024 13:06	52006	LING_T2	3	2	-1	0.93	1.45	0.52	0	0	0	0	0	0	0	0
10/23/2024 13:06	52004	LING_T2	165	193	28	0.34	0.35	0.01	0.44	0.45	0	0	0	0	0	0
10/23/2024 13:14	20603	GRWO_T2	0	0	0	0	0	0	-0.61	-0.6	1	1	0	900	900	0
10/23/2024 13:15	20603	GRWO_T2	0	0	0	0	0	0	-0.61	-0.6	1	1	0	900	900	0
10/23/2024 13:20	42002	MNVL_T2	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
10/23/2024 13:20	42001	MNVL_T2	213	229	16	0.56	0.65	0.09	-0.28	-0.3	0	0	0	0	0	0
10/23/2024 13:26	61701	ELIZ_T1	2	2	0	3	3.05	0.05	0.61	0.74	0	0	0	0	0	0
10/23/2024 13:30	43104	SMIL_T2	3	2	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
10/23/2024 13:30	43105	SMIL_T2	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
10/23/2024 13:30	43103	SMIL_T2	25	24	-1	0.5	0.58	0.08	0	0	0	0	0	0	0	0
10/23/2024 13:30	43101	SMIL_T2	2	1	-1	0.15	0.2	0.05	-0.7	-0.68	0	0	0	0	0	0
10/23/2024 13:30	43102	SMIL_T2	6	6	0	0.63	0.63	0	0	0	0	0	0	0	0	0
10/23/2024 13:34	57702	PAXT_T1	3	3	0	0.77	0.6	-0.17	0	0	0	0	0	0	0	0
10/23/2024 13:35	57702	PAXT_T1	3	3	0	0.77	0.6	-0.17	0.13	0	0	0	0	0	0	0
10/23/2024 13:37	57702	PAXT_T1	3	3	0	0.77	0.6	-0.17	0	0.02	0	0	0	0	0	0
10/23/2024 13:38	57702	PAXT_T1	3	3	0	0.77	0.6	-0.17	0	0.04	0	0	0	0	0	0
10/23/2024 13:39	13704	SCHN_T2	1	0	-1	0.2	0	-0.2	-0.26	-0.28	0	0	0	0	0	0
10/23/2024 13:39	13701	SCHN_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
10/23/2024 13:39	57702	PAXT_T1	3	3	0	0.77	0.6	-0.17	0	0.02	0	0	0	0	0	0
10/23/2024 13:41	26001	WDAM_T1	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
10/23/2024 13:41	21206	ECAR_T2	1	1	0	7.1	7.2	0.1	0.38	0.36	0	0	0	0	0	0
10/23/2024 13:41	21204	ECAR_T2	1	2	1	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 13:44	26704	HEML_T2	51	77	26	0.14	0.16	0.02	-0.64	-0.61	1	1	0	1200	1200	0
10/23/2024 13:48	23201	HIRU_T2	4	3	-1	0.28	0.33	0.05	0	0	0	0	0	0	0	0
10/23/2024 13:48	23203	HIRU_T2	1	1	0	0.1	0.1	0	0.15	0.16	0	0	0	0	0	0
10/23/2024 13:48	23202	HIRU_T2	2	3	1	0.25	0.17	-0.08	0	0	0	0	0	0	0	0
10/23/2024 13:50	23203	HIRU_T2	1	1	0	0.1	0.1	0	0.15	0.16	0	0	0	0	0	0
10/23/2024 13:50	23201	HIRU_T2	4	3	-1	0.28	0.33	0.05	0	0	0	0	0	0	0	0
10/23/2024 13:50	23202	HIRU_T2	2	3	1	0.25	0.17	-0.08	0	0	0	0	0	0	0	0
10/23/2024 13:52	43801	SWIL_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
10/23/2024 13:52	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 13:55	57403	SPAN_T1	14	16	2	0.32	0.31	-0.01	0.04	0.04	0	0	0	0	0	0
10/23/2024 13:55	57401	SPAN_T1	2	2	0	0.95	1	0.05	0	0	0	0	0	0	0	0
10/23/2024 13:57	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 13:57	66703	STRA_T1	0	0	0	0	0	0	0.1	0.14	0	0	0	0	0	0
10/23/2024 13:57	66701	STRA_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/23/2024 13:59	65207	PRIN_T4	1	1	0	0.6	0.7	0.1	0	0	2	2	0	1800	1800	0
10/23/2024 13:59	65206	PRIN_T4	1	0	-1	2.4	0	-2.4	0	0	0	0	0	0	0	0
10/23/2024 14:04	50501	MECH_T1	4	4	0	1.25	1.2	-0.05	-0.73	-0.66	0	0	0	0	0	0
10/23/2024 14:04	50502	MECH_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
10/23/2024 14:04	58401	MORO_T1	0	0	0	0	0	0	-0.92	-0.88	1	1	0	600	600	0
10/23/2024 14:05	58401	MORO_T1	0	0	0	0	0	0	-0.92	-0.88	1	1	0	600	600	0
10/23/2024 14:13	29401	BELT_T1	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
10/23/2024 14:13	29402	BELT_T1	4	4	0	2.53	2.58	0.05	0	0	0	0	0	0	0	0
10/23/2024 14:13	28102	TWLA_T2	22	20	-2	0.66	0.67	0.01	0.18	0.19	0	0	0	0	0	0
10/23/2024 14:14	29402	BELT_T1	4	4	0	2.53	2.58	0.05	0	0	0	0	0	0	0	0
10/23/2024 14:14	29401	BELT_T1	1	4	3	0.1	0.23	0.13	0	0	1	1	0	900	900	0
10/23/2024 14:15	29402	BELT_T1	0	3	3	0	3.33	3.33	0	0	0	0	0	0	0	0
10/23/2024 14:15	29401	BELT_T1	0	3	3	0	0.27	0.27	0	0	1	1	0	900	900	0
10/23/2024 14:18	17001	RIRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 14:19	43201	MVIL_T2	1	1	0	0.5	0.7	0.2	-0.36	-1.26	0	0	0	0	0	0
10/23/2024 14:23	54504	ENOL_T2	0	0	0	0	0	0	-1.12	-1.11	1	1	0	600	600	0
10/23/2024 14:23	54505	ENOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/23/2024 14:23	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/23/2024 14:24	44301	BEAV_T2	0	1	1	0	0.1	0.1	0.58	0.65	1	1	0	600	600	0
10/23/2024 14:26	44301	BEAV_T2	0	1	1	0	0.1	0.1	0.58	0.65	1	1	0	600	600	0
10/23/2024 14:27	20401	ASHF_T2	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
10/23/2024 14:27	20403	ASHF_T2	7	1	-6	0.17	0.1	-0.07	1.35	1.26	0	0	0	0	0	0
10/23/2024 14:41	14204	EALL_T2	0	0	0	0	0	0	0.08	0	0	0	0	0	0	0
10/23/2024 14:45	48901	FOSP_T2	0	0	0	0	0	0	-0.34	0.26	1	0	-1	600	0	-600
10/23/2024 14:45	48902	FOSP_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/23/2024 14:47	42902	MIDD_T2	10	3	-7	0.46	0.57	0.11	-0.3	-0.24	1	1	0	600	600	0
10/23/2024 14:47	42903	MIDD_T2	2	2	0	1.15	0.55	-0.6	0	0	0	0	0	0	0	0
10/23/2024 14:48	65207	PRIN_T4	4	88	84	0.25	0.16	-0.09	0	0	0	0	0	0	0	0
10/23/2024 14:48	48902	FOSP_T2	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/23/2024 14:48	48901	FOSP_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
10/23/2024 14:48	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 14:48	65206	PRIN_T4	0	11	11	0	0.11	0.11	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/23/2024 14:53	58402	MORO_T1	0	0	0	0	0	0	-0.24	-0.24	2	2	0	1500	1500	0
10/23/2024 15:03	46101	MACI_T2	0	0	0	0	0	0	-0.07	-0.08	1	1	0	1200	1200	0
10/23/2024 15:04	67503	WEWI_T2	1	1	0	8.7	8.7	0	-0.17	-0.17	0	0	0	0	0	0
10/23/2024 15:04	47402	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/23/2024 15:04	47401	PENS_T1	0	2	2	0	0.6	0.6	1.22	1.33	0	0	0	0	0	0
10/23/2024 15:04	47403	PENS_T1	0	7	7	0	0.46	0.46	0	0	0	0	0	0	0	0
10/23/2024 15:04	67502	WEWI_T2	3	7	4	0.23	0.23	0	0	0	0	0	0	0	0	0
10/23/2024 15:05	47402	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/23/2024 15:05	47401	PENS_T1	0	2	2	0	0.6	0.6	1.22	1.33	0	0	0	0	0	0
10/23/2024 15:05	47403	PENS_T1	0	7	7	0	0.46	0.46	0	0	0	0	0	0	0	0
10/23/2024 15:07	47403	PENS_T1	0	7	7	0	0.46	0.46	0	0	0	0	0	0	0	0
10/23/2024 15:07	47402	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/23/2024 15:07	47401	PENS_T1	0	2	2	0	0.6	0.6	1.33	1.25	0	0	0	0	0	0
10/23/2024 15:08	57402	SPAN_T2	0	0	0	0	0	0	-1.22	-1.2	0	0	0	0	0	0
10/23/2024 15:10	54602	SUMM_T2	9	16	7	0.19	0.37	0.18	0	0	0	0	0	0	0	0
10/23/2024 15:10	55102	WERT_T2	0	0	0	0	0	0	-1.18	-1.05	2	1	-1	1200	600	-600
10/23/2024 15:10	54601	SUMM_T2	6	12	6	0.33	0.32	-0.01	-3.97	-3.88	2	2	0	2100	2100	0
10/23/2024 15:11	55102	WERT_T2	0	0	0	0	0	0	-1.18	-1.05	2	1	-1	1200	600	-600
10/23/2024 15:18	65502	MOJO_T2	0	0	0	0	0	0	0.33	-0.02	0	0	0	0	0	0
10/23/2024 15:18	65503	MOJO_T2	0	0	0	0	0	0	-0.61	-0.69	1	1	0	900	900	0
10/23/2024 15:31	17805	GILB_T2	2	1	-1	0.4	0.2	-0.2	0.3	0.26	0	0	0	0	0	0
10/23/2024 15:31	17804	GILB_T2	2	2	0	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
10/23/2024 15:31	24702	FLND_T2	0	0	0	0	0	0	0.74	0.88	1	1	0	1200	1200	0
10/23/2024 15:37	65802	RTWN_T2	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
10/23/2024 15:39	60201	ATGL_T2	0	0	0	0	0	0	0.42	0.03	0	0	0	0	0	0
10/23/2024 15:39	55102	WERT_T2	0	0	0	0	0	0	-1.1	-1.08	1	1	0	600	600	0
10/23/2024 15:40	42503	ALTA_T2	0	0	0	0	0	0	-0.71	0.34	0	0	0	0	0	0
10/23/2024 15:41	24801	VALM_T1	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
10/23/2024 15:44	42503	ALTA_T2	0	0	0	0	0	0	-0.71	0.34	0	0	0	0	0	0
10/23/2024 15:47	59301	MCAL_T1	68	38	-30	0.45	0.28	-0.17	-3.01	-3.1	2	2	0	1200	1200	0
10/23/2024 15:47	59302	MCAL_T1	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
10/23/2024 15:49	59302	MCAL_T1	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
10/23/2024 15:49	59301	MCAL_T1	68	38	-30	0.45	0.28	-0.17	-1.51	-1.55	1	1	0	600	600	0
10/23/2024 15:51	59302	MCAL_T1	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
10/23/2024 15:51	59301	MCAL_T1	68	38	-30	0.45	0.28	-0.17	-1.51	-1.55	1	1	0	600	600	0
10/23/2024 16:01	52003	LING_T1	13	11	-2	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
10/23/2024 16:01	52001	LING_T1	261	60	-201	0.16	0.16	0	0	0	0	0	0	0	0	0
10/23/2024 16:02	52001	LING_T1	261	60	-201	0.16	0.16	0	0.65	0.6	0	0	0	0	0	0
10/23/2024 16:02	40901	JESH_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/23/2024 16:02	40902	JESH_T1	0	0	0	0	0	0	-0.58	-0.53	0	0	0	0	0	0
10/23/2024 16:02	52003	LING_T1	13	11	-2	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
10/23/2024 16:03	40902	JESH_T1	0	0	0	0	0	0	-0.58	-0.53	0	0	0	0	0	0
10/23/2024 16:03	40901	JESH_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/23/2024 16:04	40902	JESH_T1	0	0	0	0	0	0	-0.58	-0.53	0	0	0	0	0	0
10/23/2024 16:04	40901	JESH_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/23/2024 16:05	52004	LING_T2	246	127	-119	0.37	0.33	-0.04	0.15	0.13	0	0	0	0	0	0
10/23/2024 16:05	40901	JESH_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/23/2024 16:05	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 16:05	52002	LING_T2	59	11	-48	0.22	0.37	0.15	0	0	0	0	0	0	0	0
10/23/2024 16:05	52006	LING_T2	4	2	-2	0.95	1.6	0.65	0	0	0	0	0	0	0	0
10/23/2024 16:05	52001	LING_T1	261	60	-201	0.16	0.16	0	0	0	0	0	0	0	0	0
10/23/2024 16:05	52003	LING_T1	13	11	-2	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
10/23/2024 16:15	44302	BEAV_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
10/23/2024 16:26	40901	JESH_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/23/2024 16:26	17901	BART_T1	0	0	0	0	0	0	0.99	0.96	2	2	0	2400	2400	0
10/23/2024 16:26	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 16:28	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 16:29	57505	LAWN_T3	26	29	3	0.14	0.22	0.08	0.61	0.62	0	0	0	0	0	0
10/23/2024 16:40	60404	DILL_T2	0	0	0	0	0	0	0.45	0.42	1	1	0	1200	1200	0
10/23/2024 16:40	60403	DILL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 16:41	60404	DILL_T2	0	0	0	0	0	0	0.45	0.42	1	1	0	1200	1200	0
10/23/2024 16:41	42601	TUSC_T1	0	0	0	0	0	0	-0.18	-0.17	2	2	0	1800	1800	0
10/23/2024 16:41	60201	ATGL_T2	0	12	12	0	0.17	0.17	-0.18	-0.03	0	0	0	0	0	0
10/23/2024 16:41	60403	DILL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 16:43	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 16:43	44502	HAMI_T2	1	1	0	3.4	3.8	0.4	0	0	0	0	0	0	0	0
10/23/2024 16:45	44502	HAMI_T2	1	1	0	3.4	3.8	0.4	0	0	0	0	0	0	0	0
10/23/2024 16:45	44505	HAMI_T2	0	0	0	0	0	0	0.74	0.74	0	0	0	0	0	0
10/23/2024 16:46	24102	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 16:46	24104	EHAZ_T1	0	0	0	0	0	0	-0.85	-0.83	1	1	0	1200	1200	0
10/23/2024 16:46	24105	EHAZ_T1	4	4	0	6.35	6.63	0.28	0	0	0	0	0	0	0	0
10/23/2024 16:49	64902	MILL_T2	0	0	0	0	0	0	-0.18	-0.22	0	0	0	0	0	0
10/23/2024 16:49	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 16:50	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 16:55	67401	WAKE_T2	6	2	-4	0.1	0.1	0	0	0	0	0	0	0	0	0
10/23/2024 16:55	67402	WAKE_T2	0	0	0	0	0	0	-0.33	-0.32	1	1	0	600	600	0
10/23/2024 16:57	59003	MIFF_T1	1	1	0	0.2	0.3	0.1	0.5	0.57	0	0	0	0	0	0
10/23/2024 16:57	59002	MIFF_T1	5	6	1	0.84	0.77	-0.07	0	0	0	0	0	0	0	0
10/23/2024 16:58	40802	EXCH_T2	4	10	6	0.13	0.11	-0.02	0	0	0	0	0	0	0	0
10/23/2024 16:58	40801	EXCH_T2	3	3	0	0.3	0.33	0.03	-0.72	-0.77	2	2	0	2400	2400	0
10/23/2024 16:59	67401	WAKE_T2	6	2	-4	0.1	0.1	0	0	0	0	0	0	0	0	0
10/23/2024 16:59	67402	WAKE_T2	0	0	0	0	0	0	-0.33	-0.32	1	1	0	600	600	0
10/23/2024 17:02	46602	LACR_T1	8	8	0	0.15	0.1	-0.05	-0.98	-0.93	0	0	0	0	0	0
10/23/2024 17:09	59102	WALK_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
10/23/2024 17:12	62101	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/23/2024 17:12	62106	ELAN_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
10/23/2024 17:15	62105	ELAN_T1	0	0	0	0	0	0	0.5	0.46	0	0	0	0	0	0
10/23/2024 17:15	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/23/2024 17:17	41205	KENM_T2	0	0	0	0	0	0	-0.7	-0.73	1	1	0	600	600	0
10/23/2024 17:17	52004	LING_T2	3	3	0	4.13	4.2	0.07	0.1	0.1	0	0	0	0	0	0
10/23/2024 17:17	52006	LING_T2	2	2	0	0.65	0.85	0.2	0	0	0	0	0	0	0	0
10/23/2024 17:17	52002	LING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/23/2024 17:17	52001	LING_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
10/23/2024 17:18	52001	LING_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 17:21	52001	LING_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
10/23/2024 17:32	44502	HAMI_T2	1	1	0	3.8	3.7	-0.1	0	0	0	0	0	0	0	0
10/23/2024 17:32	44503	HAMI_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
10/23/2024 17:47	66303	MCGO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/23/2024 17:47	66302	MCGO_T2	0	0	0	0	0	0	-1.6	-1.6	1	1	0	600	600	0
10/23/2024 17:50	60403	DILL_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/23/2024 17:50	60404	DILL_T2	0	1	1	0	0	0	0.12	0.03	1	1	0	1200	1200	0
10/23/2024 17:58	60701	BREC_T1	0	0	0	0	0	0	-0.44	-0.48	1	1	0	600	600	0
10/23/2024 19:39	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
10/23/2024 19:39	54501	ENOL_T2	4	4	0	0.28	0.3	0.02	0	0	0	0	0	0	0	0
10/23/2024 19:39	54506	ENOL_T2	0	0	0	0	0	0	0.65	0.95	1	1	0	600	600	0
10/23/2024 19:55	46602	LACR_T1	0	0	0	0	0	0	-0.98	-1.01	0	0	0	0	0	0
10/23/2024 20:02	23203	HIRU_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:02	26704	HEML_T2	79	83	4	0.28	0.31	0.03	-0.73	-0.72	1	1	0	1200	1200	0
10/23/2024 20:02	23201	HIRU_T2	1	4	3	0.1	0.15	0.05	0.14	0.14	0	0	0	0	0	0
10/23/2024 20:02	45702	LIND_T2	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
10/23/2024 20:02	45701	LIND_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
10/23/2024 20:04	24801	VALM_T1	0	0	0	0	0	0	-0.36	-0.32	0	0	0	0	0	0
10/23/2024 20:04	42002	MNVL_T2	1	2	1	4	1.9	-2.1	0	0	0	0	0	0	0	0
10/23/2024 20:04	42001	MNVL_T2	269	284	15	0.86	1.15	0.29	-0.26	-0.29	0	0	0	0	0	0
10/23/2024 20:05	44503	HAMI_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
10/23/2024 20:05	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/23/2024 20:05	44502	HAMI_T2	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
10/23/2024 20:06	54701	NEBL_T1	7	8	1	1.06	1.21	0.15	0	0	0	0	0	0	0	0
10/23/2024 20:06	23203	HIRU_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:06	23202	HIRU_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
10/23/2024 20:06	23201	HIRU_T2	1	4	3	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/23/2024 20:07	15703	TANN_T2	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
10/23/2024 20:07	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
10/23/2024 20:07	67605	WARW_T1	23	15	-8	0.48	0.37	-0.11	0	0	0	0	0	0	0	0
10/23/2024 20:07	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
10/23/2024 20:07	15203	SFAR_T2	1	3	2	0.1	0.1	0	-1.24	-1.3	0	0	0	0	0	0
10/23/2024 20:07	14301	SUMN_T1	0	0	0	0	0	0	0.08	-0.05	0	0	0	0	0	0
10/23/2024 20:07	45902	AUBU_T1	0	0	0	0	0	0	0.15	0.16	1	1	0	600	600	0
10/23/2024 20:07	10805	CHHI_T2	1	1	0	8.7	8.8	0.1	-0.59	-0.63	0	0	0	0	0	0
10/23/2024 20:08	17805	GILB_T2	0	0	0	0	0	0	0.09	0.14	0	0	0	0	0	0
10/23/2024 20:08	47401	PENS_T1	0	0	0	0	0	0	1.11	1.05	0	0	0	0	0	0
10/23/2024 20:08	14308	SUMN_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
10/23/2024 20:08	14301	SUMN_T1	0	0	0	0	0	0	0.08	-0.05	0	0	0	0	0	0
10/23/2024 20:08	46004	BERW_T2	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
10/23/2024 20:08	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	900	900	0
10/23/2024 20:08	14303	SUMN_T1	3	3	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
10/23/2024 20:08	45902	AUBU_T1	0	0	0	0	0	0	0.15	0.16	1	1	0	600	600	0
10/23/2024 20:08	46002	BERW_T2	0	0	0	0	0	0	-1.06	-1.11	1	1	0	900	900	0
10/23/2024 20:08	25402	LAHA_T2	0	0	0	0	0	0	-0.91	-0.91	0	0	0	0	0	0
10/23/2024 20:09	14307	SUMN_T1	0	0	0	0	0	0	-0.18	-0.18	1	1	0	900	900	0
10/23/2024 20:09	40902	JESH_T1	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
10/23/2024 20:09	14404	SSLA_T1	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
10/23/2024 20:09	40901	JESH_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
10/23/2024 20:09	14201	EALL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:09	14303	SUMN_T1	3	3	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
10/23/2024 20:09	43102	SMIL_T2	6	7	1	0.78	0.97	0.19	0	0	0	0	0	0	0	0
10/23/2024 20:09	43105	SMIL_T2	17	17	0	0.24	0.27	0.03	0	0	0	0	0	0	0	0
10/23/2024 20:09	14402	SSLA_T1	1	3	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:09	14401	SSLA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/23/2024 20:09	43103	SMIL_T2	9	14	5	0.42	0.51	0.09	-2.83	-2.92	0	0	0	0	0	0
10/23/2024 20:09	26002	WDAM_T1	3	1	-2	0.33	0.5	0.17	0	0	0	0	0	0	0	0
10/23/2024 20:09	26001	WDAM_T1	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
10/23/2024 20:09	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/23/2024 20:09	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:09	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/23/2024 20:09	10101	ALLE_T3	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
10/23/2024 20:09	24202	PROV_T4	2	9	7	0.95	0.1	-0.85	0	0	1	1	0	1200	1200	0
10/23/2024 20:10	12002	HATF_T1	1	1	0	2.8	2.8	0	0	0	0	0	0	0	0	0
10/23/2024 20:10	41202	KENM_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
10/23/2024 20:10	41205	KENM_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
10/23/2024 20:10	29401	BELT_T1	7	24	17	0.11	0.14	0.03	0	0	0	0	0	0	0	0
10/23/2024 20:10	14401	SSLA_T1	1	1	0	0.1	0.1	0	-0.57	-0.58	0	0	0	0	0	0
10/23/2024 20:10	67605	WARW_T1	23	15	-8	0.48	0.37	-0.11	-1.11	-1.15	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/23/2024 20:10	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:10	14402	SSLA_T1	1	3	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:10	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:10	12003	HATF_T1	0	0	0	0	0	0	-0.02	0	1	1	0	1200	1200	0
10/23/2024 20:10	67503	WEWI_T2	1	18	17	8.2	0.59	-7.61	0	0	0	0	0	0	0	0
10/23/2024 20:10	10101	ALLE_T3	1	1	0	0.9	0	-0.9	0	0	1	0	0	0	0	0
10/23/2024 20:10	43801	SWIL_T1	12	16	4	0.71	0.58	-0.13	0	0	0	0	0	0	0	0
10/23/2024 20:10	29402	BELT_T1	1	1	0	8.1	8.2	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:10	61701	ELIZ_T1	1	1	0	5.6	5.3	-0.3	0.4	0.31	0	0	0	0	0	0
10/23/2024 20:10	20603	GRWO_T2	10	11	1	0.16	0.13	-0.03	0.34	0.33	0	0	0	0	0	0
10/23/2024 20:10	67502	WEWI_T2	32	151	119	0.15	0.21	0.06	-0.27	-0.4	0	0	0	0	0	0
10/23/2024 20:10	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:11	14802	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:11	52001	LING_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
10/23/2024 20:11	63403	HONY_T2	0	0	0	0	0	0	0.07	0.15	0	0	0	0	0	0
10/23/2024 20:11	40902	JESH_T1	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
10/23/2024 20:11	14801	TREI_T2	1	2	1	0.2	0.15	-0.05	0.39	0.39	0	0	0	0	0	0
10/23/2024 20:11	63402	HONY_T2	1	1	0	0.6	1.2	0.6	0	0	0	0	0	0	0	0
10/23/2024 20:11	14401	SSLA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/23/2024 20:11	23203	HIRU_T2	0	2	2	0	0.1	0.1	0.1	0.12	0	0	0	0	0	0
10/23/2024 20:11	40602	PIGR_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/23/2024 20:11	54601	SUMM_T2	13	13	0	0.95	1.09	0.14	-7.96	-8.08	4	4	0	4200	4200	0
10/23/2024 20:11	14301	SUMN_T1	0	0	0	0	0	0	0.08	-0.05	0	0	0	0	0	0
10/23/2024 20:11	17802	GILB_T1	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
10/23/2024 20:11	63501	HEID_TBK1-2	1	1	0	0.5	0.6	0.1	0.9	0.91	0	0	0	0	0	0
10/23/2024 20:11	54602	SUMM_T2	15	16	1	0.63	0.81	0.18	0	0	0	0	0	0	0	0
10/23/2024 20:11	54603	SUMM_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/23/2024 20:11	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/23/2024 20:11	54001	SDLE_T1	326	229	-97	0.49	0.34	-0.15	0	0	0	0	0	0	0	0
10/23/2024 20:11	14303	SUMN_T1	3	3	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
10/23/2024 20:11	29402	BELT_T1	1	1	0	8.1	8.2	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:11	59202	THOM_T1	605	673	68	0.73	0.92	0.19	0	0	0	0	0	0	0	0
10/23/2024 20:11	23201	HIRU_T2	1	4	3	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/23/2024 20:11	14402	SSLA_T1	1	3	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:11	59201	THOM_T1	82	104	22	0.63	0.72	0.09	0	0	0	0	0	0	0	0
10/23/2024 20:11	14404	SSLA_T1	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
10/23/2024 20:11	52002	LING_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
10/23/2024 20:11	17901	BART_T1	0	0	0	0	0	0	1.29	1.24	1	1	0	1200	1200	0
10/23/2024 20:11	52006	LING_T2	2	2	0	1.35	1.4	0.05	0	0	0	0	0	0	0	0
10/23/2024 20:11	52004	LING_T2	3	3	0	4.63	4.6	-0.03	0.11	0.11	0	0	0	0	0	0
10/23/2024 20:11	40601	PIGR_T1	182	190	8	0.4	0.45	0.05	0	0	0	0	0	0	0	0
10/23/2024 20:11	40901	JESH_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
10/23/2024 20:11	29401	BELT_T1	7	24	17	0.11	0.14	0.03	0	0	1	1	0	900	900	0
10/23/2024 20:11	45702	LIND_T2	1	1	0	1.9	1.9	0	-0.61	-0.46	0	0	0	0	0	0
10/23/2024 20:11	67001	STHI_T2	227	411	184	0.14	0.2	0.06	0	0	0	0	0	0	0	0
10/23/2024 20:11	67002	STHI_T2	19	51	32	0.14	0.17	0.03	1.16	1.16	0	0	0	0	0	0
10/23/2024 20:11	14307	SUMN_T1	0	0	0	0	0	0	-0.18	-0.18	1	1	0	900	900	0
10/23/2024 20:11	44802	EDAN_T2	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
10/23/2024 20:12	41306	FISH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:12	44802	EDAN_T2	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
10/23/2024 20:12	42501	ALTA_T2	0	0	0	0	0	0	-0.05	-0.07	1	1	0	600	600	0
10/23/2024 20:12	65207	PRIN_T4	46	43	-3	0.19	0.16	-0.03	0	0	1	1	0	1200	1200	0
10/23/2024 20:12	41304	FISH_T2	1	1	0	0	0	0	0.16	0.14	0	0	0	0	0	0
10/23/2024 20:12	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:12	14203	EALL_T1	0	0	0	0	0	0	0.92	0.92	0	0	0	0	0	0
10/23/2024 20:12	17901	BART_T1	0	0	0	0	0	0	1.29	1.24	1	1	0	1200	1200	0
10/23/2024 20:12	24102	EHAZ_T1	2	1	-1	0.45	0	-0.45	0.83	0.81	0	0	0	0	0	0
10/23/2024 20:12	14303	SUMN_T1	3	3	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
10/23/2024 20:12	67001	STHI_T2	227	411	184	0.14	0.2	0.06	0	0	0	0	0	0	0	0
10/23/2024 20:12	67002	STHI_T2	19	51	32	0.14	0.17	0.03	0.58	0.58	0	0	0	0	0	0
10/23/2024 20:12	14801	TREI_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/23/2024 20:12	41801	COCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:12	65201	PRIN_T4	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:12	43103	SMIL_T2	9	14	5	0.42	0.51	0.09	0	0	0	0	0	0	0	0
10/23/2024 20:12	65502	MOJO_T2	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:12	67605	WARW_T1	23	15	-8	0.48	0.37	-0.11	-1.11	-1.15	0	0	0	0	0	0
10/23/2024 20:12	52502	PROG_T2	0	0	0	0	0	0	-1.38	-1.36	2	2	0	1800	1800	0
10/23/2024 20:12	43105	SMIL_T2	17	17	0	0.24	0.27	0.03	0	0	0	0	0	0	0	0
10/23/2024 20:12	57702	PAXT_T1	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
10/23/2024 20:12	48901	FOSP_T2	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
10/23/2024 20:12	14307	SUMN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:12	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
10/23/2024 20:12	54001	SDLE_T1	326	229	-97	0.49	0.34	-0.15	0	0	0	0	0	0	0	0
10/23/2024 20:12	14802	TREI_T2	0	1	1	0	0.1	0.1	0.72	0.74	0	0	0	0	0	0
10/23/2024 20:12	45501	DERR_T2	0	0	0	0	0	0	0.81	0.64	2	2	0	1800	1800	0
10/23/2024 20:12	64305	LINC_T1	0	0	0	0	0	0	-0.35	-0.42	0	0	0	0	0	0
10/23/2024 20:12	17802	GILB_T1	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
10/23/2024 20:12	65206	PRIN_T4	33	8	-25	0.22	0.1	-0.12	0	0	0	0	0	0	0	0
10/23/2024 20:12	43102	SMIL_T2	6	7	1	0.78	0.97	0.19	-0.87	-0.89	1	1	0	600	600	0
10/23/2024 20:12	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:12	24105	EHAZ_T1	4	4	0	6.08	6.08	0	0	0	0	0	0	0	0	0
10/23/2024 20:12	55002	NEWP_T1	1	5	4	0.3	0.52	0.22	-0.27	-0.26	0	0	0	0	0	0
10/23/2024 20:12	65503	MOJO_T2	0	0	0	0	0	0	-0.24	-0.21	0	0	0	0	0	0
10/23/2024 20:13	46004	BERW_T2	1	0	-1	1.3	0	-1.3	0.03	0.09	0	0	0	0	0	0
10/23/2024 20:13	62106	ELAN_T1	9	9	0	0.11	0.11	0	0	0.01	0	0	0	0	0	0
10/23/2024 20:13	55002	NEWP_T1	1	5	4	0.3	0.52	0.22	0	0	0	0	0	0	0	0
10/23/2024 20:13	11203	ELHE_T1	0	0	0	0	0	0	1.07	1.04	0	0	0	0	0	0
10/23/2024 20:13	67605	WARW_T1	23	15	-8	0.48	0.37	-0.11	-1.11	-1.15	0	0	0	0	0	0
10/23/2024 20:13	62103	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/23/2024 20:13	52006	LING_T2	2	2	0	1.35	1.4	0.05	0	0	0	0	0	0	0	0
10/23/2024 20:13	21206	ECAR_T2	1	1	0	7.7	8.2	0.5	0.09	0.01	0	0	0	0	0	0
10/23/2024 20:13	67001	STHI_T2	227	411	184	0.14	0.2	0.06	0.1	0.1	0	0	0	0	0	0
10/23/2024 20:13	52002	LING_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
10/23/2024 20:13	20403	ASHF_T2	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
10/23/2024 20:13	45501	DERR_T2	0	0	0	0	0	0	1.62	1.27	4	4	0	3600	3600	0
10/23/2024 20:13	44802	EDAN_T2	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
10/23/2024 20:13	54501	ENOL_T2	4	4	0	0.3	0.58	0.28	-0.54	-0.55	1	1	0	600	600	0
10/23/2024 20:13	59301	MCAL_T1	72	84	12	0.4	0.61	0.21	-1.23	-1.25	0	0	0	0	0	0
10/23/2024 20:13	65207	PRIN_T4	46	43	-3	0.19	0.16	-0.03	0	0	0	0	0	0	0	0
10/23/2024 20:13	55001	NEWP_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
10/23/2024 20:13	23203	HIRU_T2	0	2	2	0	0.1	0.1	0.1	0.12	0	0	0	0	0	0
10/23/2024 20:13	54505	ENOL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:13	17805	GILB_T2	0	0	0	0	0	0	0.09	0.14	0	0	0	0	0	0
10/23/2024 20:13	42903	MIDD_T2	2	2	0	1.1	1.45	0.35	0	0	0	0	0	0	0	0
10/23/2024 20:13	15703	TANN_T2	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
10/23/2024 20:13	20401	ASHF_T2	6	6	0	0.57	0.63	0.06	0	0	0	0	0	0	0	0
10/23/2024 20:13	42902	MIDD_T2	0	4	4	0	0.1	0.1	-0.47	-0.33	0	0	0	0	0	0
10/23/2024 20:13	58402	MORO_T1	0	0	0	0	0	0	0.34	0.31	1	1	0	900	900	0
10/23/2024 20:13	46001	BERW_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
10/23/2024 20:13	52001	LING_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
10/23/2024 20:13	23201	HIRU_T2	1	4	3	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/23/2024 20:13	45702	LIND_T2	1	1	0	1.9	1.9	0	-0.61	-0.46	0	0	0	0	0	0
10/23/2024 20:13	65206	PRIN_T4	33	8	-25	0.22	0.1	-0.12	0	0	0	0	0	0	0	0
10/23/2024 20:13	48902	FOSP_T2	0	0	0	0	0	0	0.07	-0.01	0	0	0	0	0	0
10/23/2024 20:13	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
10/23/2024 20:13	59302	MCAL_T1	2	2	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
10/23/2024 20:13	12002	HATF_T1	1	1	0	2.8	2.8	0	0.11	0.09	1	1	0	1200	1200	0
10/23/2024 20:13	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
10/23/2024 20:13	21204	ECAR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/23/2024 20:13	62101	ELAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/23/2024 20:13	67002	STHI_T2	19	51	32	0.14	0.17	0.03	0.58	0.58	0	0	0	0	0	0
10/23/2024 20:13	52004	LING_T2	3	3	0	4.63	4.6	-0.03	0.11	0.11	0	0	0	0	0	0
10/23/2024 20:13	65201	PRIN_T4	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:13	62105	ELAN_T1	52	46	-6	0.12	0.12	0	0	0	0	0	0	0	0	0
10/23/2024 20:14	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:14	43103	SMIL_T2	9	14	5	0.42	0.51	0.09	0	0	0	0	0	0	0	0
10/23/2024 20:14	14204	EALL_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
10/23/2024 20:14	43105	SMIL_T2	17	17	0	0.24	0.27	0.03	0	0	0	0	0	0	0	0
10/23/2024 20:14	42501	ALTA_T2	0	0	0	0	0	0	-0.05	-0.07	1	1	0	600	600	0
10/23/2024 20:14	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:14	66702	STRA_T1	0	0	0	0	0	0	-0.47	-0.48	2	2	0	1500	1500	0
10/23/2024 20:14	46004	BERW_T2	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
10/23/2024 20:14	67605	WARW_T1	23	15	-8	0.48	0.37	-0.11	0	0	0	0	0	0	0	0
10/23/2024 20:14	14201	EALL_T1	0	0	0	0	0	0	0.62	0.65	0	0	0	0	0	0
10/23/2024 20:14	46002	BERW_T2	0	0	0	0	0	0	-3.18	-3.33	3	3	0	2700	2700	0
10/23/2024 20:14	43102	SMIL_T2	6	7	1	0.78	0.97	0.19	0	0	0	0	0	0	0	0
10/23/2024 20:14	67001	STHI_T2	227	411	184	0.14	0.2	0.06	0.1	0.1	0	0	0	0	0	0
10/23/2024 20:14	67002	STHI_T2	19	51	32	0.14	0.17	0.03	0	0	0	0	0	0	0	0
10/23/2024 20:14	55102	WERT_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
10/23/2024 20:14	57702	PAXT_T1	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
10/23/2024 20:14	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
10/23/2024 20:14	66703	STRA_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
10/23/2024 20:14	17805	GILB_T2	0	0	0	0	0	0	0.09	0.14	0	0	0	0	0	0
10/23/2024 20:14	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/23/2024 20:14	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:14	66504	SMAN_T2	0	0	0	0	0	0	-0.63	-0.58	0	0	0	0	0	0
10/23/2024 20:15	52004	LING_T2	3	3	0	4.57	4.57	0	0.11	0.11	0	0	0	0	0	0
10/23/2024 20:15	60404	DILL_T2	0	1	1	0	1.5	1.5	-0.14	-0.14	1	1	0	1200	1200	0
10/23/2024 20:15	67002	STHI_T2	46	44	-2	0.17	0.14	-0.03	1.16	1.16	0	0	0	0	0	0
10/23/2024 20:15	59302	MCAL_T1	2	2	0	1.25	1.3	0.05	0	0	0	0	0	0	0	0
10/23/2024 20:15	12002	HATF_T1	1	1	0	2.8	2.7	-0.1	0	0	0	0	0	0	0	0
10/23/2024 20:15	17805	GILB_T2	0	0	0	0	0	0	0.09	0.14	0	0	0	0	0	0
10/23/2024 20:15	64204	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
10/23/2024 20:15	67503	WEWI_T2	18	21	3	0.59	0.56	-0.03	0	0	0	0	0	0	0	0
10/23/2024 20:15	64201	KINZ_T1	1	4	3	0.4	0.28	-0.12	1.35	1.32	3	3	0	900	900	0
10/23/2024 20:15	14307	SUMN_T1	0	0	0	0	0	0	-0.18	-0.18	1	1	0	900	900	0
10/23/2024 20:15	60403	DILL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/23/2024 20:15	10801	OHHI_T1	0	0	0	0	0	0	-1.43	-1.45	2	2	0	1500	1500	0
10/23/2024 20:15	60201	ATGL_T2	84	118	34	0.23	0.32	0.09	-0.23	-0.21	0	0	0	0	0	0
10/23/2024 20:15	44801	EDAN_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
10/23/2024 20:15	11202	ELHE_T2	0	0	0	0	0	0	0.5	0.54	1	1	0	1200	1200	0
10/23/2024 20:15	48901	FOSP_T2	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
10/23/2024 20:15	57505	LAWN_T3	2	3	1	0.2	0.2	0	0.53	0.56	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/23/2024 20:15	52002	LING_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
10/23/2024 20:15	14303	SUMN_T1	3	3	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
10/23/2024 20:15	15203	SFAR_T2	1	3	2	0.1	0.1	0	-1.24	-1.3	0	0	0	0	0	0
10/23/2024 20:15	52006	LING_T2	2	2	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:15	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:15	47401	PENS_T1	0	0	0	0	0	0	1.11	1.05	0	0	0	0	0	0
10/23/2024 20:15	64202	KINZ_T1	3	3	0	0.23	0.97	0.74	0	0	0	0	0	0	0	0
10/23/2024 20:15	59301	MCAL_T1	81	82	1	0.56	0.62	0.06	-1.23	-1.25	0	0	0	0	0	0
10/23/2024 20:15	67605	WARW_T1	13	12	-1	0.41	0.35	-0.06	0	0	0	0	0	0	0	0
10/23/2024 20:15	24702	FLND_T2	0	0	0	0	0	0	0.05	1.1	1	0	-1	1200	0	-1200
10/23/2024 20:15	14306	SUMN_T1	0	0	0	0	0	0	0.41	0.45	0	0	0	0	0	0
10/23/2024 20:15	67001	STHI_T2	383	382	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/23/2024 20:15	14203	EALL_T1	0	0	0	0	0	0	0.92	0.92	0	0	0	0	0	0
10/23/2024 20:15	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:15	67502	WEWI_T2	137	304	167	0.22	0.29	0.07	-0.27	-0.4	0	0	0	0	0	0
10/23/2024 20:16	51102	CARL_T1	106	122	16	0.27	0.3	0.03	0	0	0	0	0	0	0	0
10/23/2024 20:16	55102	WERT_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
10/23/2024 20:16	29401	BELT_T1	1	25	24	0.1	0.14	0.04	0	0	1	1	0	900	900	0
10/23/2024 20:16	65601	QVIL_T2	23	34	11	0.12	0.14	0.02	-1.14	-1.13	1	1	0	900	900	0
10/23/2024 20:16	43105	SMIL_T2	17	17	0	0.21	0.27	0.06	0	0	0	0	0	0	0	0
10/23/2024 20:16	51108	CARL_T1	4	3	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
10/23/2024 20:16	14303	SUMN_T1	3	3	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
10/23/2024 20:16	66302	MCGO_T2	0	0	0	0	0	0	-1.6	-1.48	1	1	0	600	600	0
10/23/2024 20:16	66303	MCGO_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/23/2024 20:16	29402	BELT_T1	1	1	0	7.9	8.2	0.3	0	0	0	0	0	0	0	0
10/23/2024 20:16	24104	EHAZ_T1	0	0	0	0	0	0	-0.86	-0.87	1	1	0	1200	1200	0
10/23/2024 20:16	67503	WEWI_T2	18	21	3	0.59	0.56	-0.03	0	0	0	0	0	0	0	0
10/23/2024 20:16	40602	PIGR_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/23/2024 20:16	67002	STHI_T2	46	44	-2	0.17	0.14	-0.03	1.16	1.16	0	0	0	0	0	0
10/23/2024 20:16	40902	JESH_T1	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
10/23/2024 20:16	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:16	51101	CARL_T1	3	4	1	1.67	1.23	-0.44	0	0	0	0	0	0	0	0
10/23/2024 20:16	65502	MOJO_T2	2	9	7	0.1	0.1	0	0	0	0	0	0	0	0	0
10/23/2024 20:16	65503	MOJO_T2	0	0	0	0	0	0	-0.24	-0.21	0	0	0	0	0	0
10/23/2024 20:16	67502	WEWI_T2	137	304	167	0.22	0.29	0.07	-0.27	-0.4	0	0	0	0	0	0
10/23/2024 20:16	59301	MCAL_T1	81	82	1	0.56	0.62	0.06	-2.46	-2.5	0	0	0	0	0	0
10/23/2024 20:16	59302	MCAL_T1	2	2	0	1.25	1.3	0.05	0	0	0	0	0	0	0	0
10/23/2024 20:16	14404	SSLA_T1	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
10/23/2024 20:16	24105	EHAZ_T1	4	4	0	6.18	5.98	-0.2	0	0	0	0	0	0	0	0
10/23/2024 20:16	67001	STHI_T2	383	382	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/23/2024 20:16	43103	SMIL_T2	8	14	6	0.5	0.51	0.01	0	0	0	0	0	0	0	0
10/23/2024 20:16	24102	EHAZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/23/2024 20:16	66504	SMAN_T2	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
10/23/2024 20:16	43201	MVIL_T2	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
10/23/2024 20:16	66505	SMAN_T2	0	2	2	0	0.15	0.15	0.43	0.27	1	1	0	900	900	0
10/23/2024 20:16	40901	JESH_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/23/2024 20:16	12002	HATF_T1	1	1	0	2.8	2.7	-0.1	0.11	0.09	1	1	0	1200	1200	0
10/23/2024 20:16	14306	SUMN_T1	0	0	0	0	0	0	0.41	0.45	0	0	0	0	0	0
10/23/2024 20:16	46004	BERW_T2	0	0	0	0	0	0	0.03	0.09	0	0	0	0	0	0
10/23/2024 20:16	48902	FOSP_T2	0	0	0	0	0	0	0.07	-0.01	0	0	0	0	0	0
10/23/2024 20:16	43102	SMIL_T2	6	7	1	1.02	0.96	-0.06	-0.87	-0.89	1	1	0	600	600	0
10/23/2024 20:16	43108	SMIL_T2	0	0	0	0	0	0	-1.13	-1.09	1	1	0	1200	1200	0
10/23/2024 20:16	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:16	40601	PIGR_T1	179	175	-4	0.44	0.36	-0.08	-0.19	-0.15	0	0	0	0	0	0
10/23/2024 20:16	14402	SSLA_T1	1	3	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:16	46001	BERW_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
10/23/2024 20:16	44301	BEAV_T2	0	0	0	0	0	0	0.63	0.6	1	1	0	600	600	0
10/23/2024 20:16	12001	HATF_T1	0	0	0	0	0	0	1.65	1.36	1	1	0	600	600	0
10/23/2024 20:17	40602	PIGR_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/23/2024 20:17	14301	SUMN_T1	0	0	0	0	0	0	0.08	-0.05	0	0	0	0	0	0
10/23/2024 20:17	52002	LING_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
10/23/2024 20:17	54701	NEBL_T1	7	8	1	0.97	1.25	0.28	0	0	0	0	0	0	0	0
10/23/2024 20:17	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:17	62101	ELAN_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
10/23/2024 20:17	52006	LING_T2	2	2	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:17	65603	QVIL_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
10/23/2024 20:17	60201	ATGL_T2	84	118	34	0.23	0.32	0.09	-0.46	-0.42	0	0	0	0	0	0
10/23/2024 20:17	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:17	62106	ELAN_T1	9	0	-9	0.11	0	-0.11	0	0	0	0	0	0	0	0
10/23/2024 20:17	54001	SDLE_T1	209	198	-11	0.33	0.34	0.01	0	0	0	0	0	0	0	0
10/23/2024 20:17	54502	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/23/2024 20:17	43103	SMIL_T2	8	14	6	0.5	0.51	0.01	0	0	0	0	0	0	0	0
10/23/2024 20:17	55102	WERT_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
10/23/2024 20:17	43104	SMIL_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
10/23/2024 20:17	63601	LETO_T1	0	0	0	0	0	0	1.79	1.77	1	1	0	900	900	0
10/23/2024 20:17	15203	SFAR_T2	1	3	2	0.1	0.1	0	-1.24	-1.3	0	0	0	0	0	0
10/23/2024 20:17	14303	SUMN_T1	3	3	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
10/23/2024 20:17	52004	LING_T2	3	3	0	4.57	4.57	0	0.11	0.11	0	0	0	0	0	0
10/23/2024 20:17	59202	THOM_T1	629	672	43	0.87	0.9	0.03	0	0	0	0	0	0	0	0
10/23/2024 20:17	66505	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/23/2024 20:17	67501	WEWI_T1	0	0	0	0	0	0	-1.13	-0.55	1	0	-1	600	0	-600
10/23/2024 20:17	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/23/2024 20:17	59201	THOM_T1	94	98	4	0.67	0.74	0.07	0	0	0	0	0	0	0	0
10/23/2024 20:17	43102	SMIL_T2	6	7	1	1.02	0.96	-0.06	-0.87	-0.89	1	1	0	600	600	0
10/23/2024 20:17	66703	STRA_T1	3	4	1	0.13	0.28	0.15	-0.23	-0.27	0	0	0	0	0	0
10/23/2024 20:17	65502	MOJO_T2	2	9	7	0.1	0.1	0	-0.86	-0.86	0	0	0	0	0	0
10/23/2024 20:17	43108	SMIL_T2	0	0	0	0	0	0	-1.13	-1.09	1	1	0	1200	1200	0
10/23/2024 20:17	15703	TANN_T2	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
10/23/2024 20:17	12002	HATF_T1	1	1	0	2.8	2.7	-0.1	0	0	0	0	0	0	0	0
10/23/2024 20:17	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
10/23/2024 20:17	65601	QVIL_T2	23	34	11	0.12	0.14	0.02	0	0	0	0	0	0	0	0
10/23/2024 20:17	54505	ENOL_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
10/23/2024 20:17	67001	STHI_T2	383	382	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/23/2024 20:17	52001	LING_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:17	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
10/23/2024 20:17	63401	HONY_T1	0	0	0	0	0	0	0.55	0.5	0	0	0	0	0	0
10/23/2024 20:17	57702	PAXT_T1	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
10/23/2024 20:17	62103	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/23/2024 20:17	14201	EALL_T1	0	0	0	0	0	0	0.62	0.65	0	0	0	0	0	0
10/23/2024 20:17	54501	ENOL_T2	4	4	0	0.55	0.5	-0.05	-0.54	-0.55	1	1	0	600	600	0
10/23/2024 20:17	67002	STHI_T2	46	44	-2	0.17	0.14	-0.03	0.58	0.58	0	0	0	0	0	0
10/23/2024 20:17	62105	ELAN_T1	46	0	-46	0.12	0	-0.12	0	0	0	0	0	0	0	0
10/23/2024 20:17	43105	SMIL_T2	17	17	0	0.21	0.27	0.06	0	0	0	0	0	0	0	0
10/23/2024 20:17	40601	PIGR_T1	179	175	-4	0.44	0.36	-0.08	0	0	0	0	0	0	0	0
10/23/2024 20:17	48901	FOSP_T2	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
10/23/2024 20:18	66703	STRA_T1	3	4	1	0.13	0.28	0.15	0	0	0	0	0	0	0	0
10/23/2024 20:18	14303	SUMN_T1	3	3	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
10/23/2024 20:18	54001	SDLE_T1	209	198	-11	0.33	0.34	0.01	0	0	0	0	0	0	0	0
10/23/2024 20:18	62101	ELAN_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
10/23/2024 20:18	46801	HEPB_T2	2	3	1	0.9	0.57	-0.33	0.54	0.55	0	0	0	0	0	0
10/23/2024 20:18	14306	SUMN_T1	0	0	0	0	0	0	0.41	0.45	0	0	0	0	0	0
10/23/2024 20:18	57702	PAXT_T1	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
10/23/2024 20:18	40801	EXCH_T2	0	0	0	0	0	0	0.77	0.76	0	0	0	0	0	0
10/23/2024 20:18	62106	ELAN_T1	9	0	-9	0.11	0	-0.11	0	0	0	0	0	0	0	0
10/23/2024 20:18	57101	SPHI_T2	5	5	0	1.46	1.44	-0.02	0	0	0	0	0	0	0	0
10/23/2024 20:18	57104	SPHI_T2	2	2	0	1.1	0.4	-0.7	-0.41	-0.41	0	0	0	0	0	0
10/23/2024 20:18	42503	ALTA_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
10/23/2024 20:18	59102	WALK_T2	7	13	6	0.14	0.15	0.01	0.33	0.36	0	0	0	0	0	0
10/23/2024 20:18	40601	PIGR_T1	179	175	-4	0.44	0.36	-0.08	0	0	0	0	0	0	0	0
10/23/2024 20:18	67001	STHI_T2	383	382	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/23/2024 20:18	14801	TREI_T2	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:18	57106	SPHI_T2	3	3	0	1.73	1.9	0.17	0	0	0	0	0	0	0	0
10/23/2024 20:18	63501	HEID_TBK1-2	1	1	0	0.5	1.3	0.8	0.45	0.46	0	0	0	0	0	0
10/23/2024 20:18	62103	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/23/2024 20:18	40602	PIGR_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/23/2024 20:18	20603	GRWO_T2	4	13	9	0.13	0.15	0.02	0.34	0.33	0	0	0	0	0	0
10/23/2024 20:18	62105	ELAN_T1	46	0	-46	0.12	0	-0.12	0.45	0.4	0	0	0	0	0	0
10/23/2024 20:18	17804	GILB_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
10/23/2024 20:18	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:18	67002	STHI_T2	46	44	-2	0.17	0.14	-0.03	0.58	0.58	0	0	0	0	0	0
10/23/2024 20:18	66702	STRA_T1	0	0	0	0	0	0	-0.95	-0.96	4	4	0	3000	3000	0
10/23/2024 20:18	14802	TREI_T2	1	1	0	0.1	0.1	0	0.36	0.37	0	0	0	0	0	0
10/23/2024 20:18	42902	MIDD_T2	4	0	-4	0.1	0	-0.1	-0.47	-0.33	0	0	0	0	0	0
10/23/2024 20:18	42903	MIDD_T2	2	2	0	1.45	1.1	-0.35	0	0	0	0	0	0	0	0
10/23/2024 20:19	14403	SSLA_T1	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
10/23/2024 20:19	13704	SCHN_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
10/23/2024 20:19	15103	UPHA_T2	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
10/23/2024 20:19	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	900	900	0
10/23/2024 20:19	50502	MECH_T1	1	1	0	2.7	2.6	-0.1	0	0	0	0	0	0	0	0
10/23/2024 20:19	59202	THOM_T1	629	672	43	0.87	0.9	0.03	0	0	0	0	0	0	0	0
10/23/2024 20:19	55507	HERS_T1	9	11	2	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
10/23/2024 20:19	54505	ENOL_T2	1	1	0	1.3	1.3	0	-1.33	-1.34	1	1	0	600	600	0
10/23/2024 20:19	67605	WARW_T1	13	12	-1	0.41	0.35	-0.06	-1.11	-1.15	0	0	0	0	0	0
10/23/2024 20:19	59201	THOM_T1	94	98	4	0.67	0.74	0.07	0	0	0	0	0	0	0	0
10/23/2024 20:19	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:19	46004	BERW_T2	0	0	0	0	0	0	0.03	0.09	0	0	0	0	0	0
10/23/2024 20:19	14203	EALL_T1	0	0	0	0	0	0	0.92	0.92	0	0	0	0	0	0
10/23/2024 20:19	14802	TREI_T2	1	1	0	0.1	0.1	0	0.36	0.37	0	0	0	0	0	0
10/23/2024 20:19	57702	PAXT_T1	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
10/23/2024 20:19	54502	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/23/2024 20:19	14801	TREI_T2	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:19	67501	WEWI_T1	0	0	0	0	0	0	-1.13	-0.55	1	0	-1	600	0	-600
10/23/2024 20:19	50501	MECH_T1	4	4	0	1.18	1.28	0.1	0.13	0.07	0	0	0	0	0	0
10/23/2024 20:19	55503	HERS_T1	0	0	0	0	0	0	-1.55	-1.54	1	1	0	1200	1200	0
10/23/2024 20:19	67703	WERN_T2	0	0	0	0	0	0	0	0	0	1	1	0	900	900
10/23/2024 20:19	55501	HERS_T1	52	52	0	0.37	0.51	0.14	0	0	0	0	0	0	0	0
10/23/2024 20:19	54001	SDLE_T1	209	198	-11	0.33	0.34	0.01	0	0	0	0	0	0	0	0
10/23/2024 20:19	47401	PENS_T1	0	0	0	0	0	0	1.11	1.05	0	0	0	0	0	0
10/23/2024 20:19	42902	MIDD_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/23/2024 20:19	14402	SSLA_T1	1	3	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:19	48901	FOSP_T2	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
10/23/2024 20:19	54501	ENOL_T2	4	4	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
10/23/2024 20:19	42903	MIDD_T2	2	2	0	1.45	1.1	-0.35	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/23/2024 20:19	67402	WAKE_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
10/23/2024 20:20	67001	STHI_T2	383	382	-1	0.2	0.2	0	0.1	0.1	0	0	0	0	0	0
10/23/2024 20:20	54603	SUMM_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
10/23/2024 20:20	64902	MILL_T2	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
10/23/2024 20:20	43802	SWIL_T1	0	0	0	0	0	0	-0.19	-0.2	1	1	0	600	600	0
10/23/2024 20:20	14303	SUMN_T1	3	3	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
10/23/2024 20:20	20401	ASHF_T2	6	6	0	0.57	0.6	0.03	0	0	0	0	0	0	0	0
10/23/2024 20:20	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:20	43801	SWIL_T1	15	17	2	0.61	0.52	-0.09	0	0	0	0	0	0	0	0
10/23/2024 20:20	52004	LING_T2	3	3	0	4.57	4.57	0	0.11	0.11	0	0	0	0	0	0
10/23/2024 20:20	14301	SUMN_T1	0	0	0	0	0	0	0.08	-0.05	0	0	0	0	0	0
10/23/2024 20:20	67605	WARW_T1	13	12	-1	0.41	0.35	-0.06	-2.22	-2.31	0	0	0	0	0	0
10/23/2024 20:20	52006	LING_T2	2	2	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:20	60701	BREC_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
10/23/2024 20:20	43105	SMIL_T2	17	17	0	0.21	0.27	0.06	0	0	0	0	0	0	0	0
10/23/2024 20:20	55101	WERT_T1	0	0	0	0	0	0	-1.06	-0.98	1	1	0	600	600	0
10/23/2024 20:20	66505	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/23/2024 20:20	54601	SUMM_T2	13	13	0	1.02	1.14	0.12	-3.98	-4.04	2	2	0	2100	2100	0
10/23/2024 20:20	54502	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/23/2024 20:20	52002	LING_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
10/23/2024 20:20	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/23/2024 20:20	54602	SUMM_T2	16	15	-1	0.77	0.69	-0.08	0	0	0	0	0	0	0	0
10/23/2024 20:20	44802	EDAN_T2	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
10/23/2024 20:20	20403	ASHF_T2	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
10/23/2024 20:20	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:20	43104	SMIL_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
10/23/2024 20:20	43103	SMIL_T2	8	14	6	0.5	0.51	0.01	-0.94	-0.97	0	0	0	0	0	0
10/23/2024 20:20	44502	HAMI_T2	1	1	0	2.9	3.1	0.2	0	0	0	0	0	0	0	0
10/23/2024 20:20	54504	ENOL_T2	0	0	0	0	0	0	-1.1	-1.12	1	1	0	600	600	0
10/23/2024 20:20	42501	ALTA_T2	0	0	0	0	0	0	-0.05	-0.07	1	1	0	600	600	0
10/23/2024 20:20	54501	ENOL_T2	4	4	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
10/23/2024 20:20	43102	SMIL_T2	6	7	1	1.02	0.96	-0.06	0	0	0	0	0	0	0	0
10/23/2024 20:20	54505	ENOL_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
10/23/2024 20:20	67002	STHI_T2	46	44	-2	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
10/23/2024 20:21	43104	SMIL_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
10/23/2024 20:21	52001	LING_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
10/23/2024 20:21	43105	SMIL_T2	17	17	0	0.21	0.27	0.06	0	0	0	0	0	0	0	0
10/23/2024 20:21	42601	TUSC_T1	1	1	0	0.1	0.3	0.2	-0.41	-0.35	2	2	0	1800	1800	0
10/23/2024 20:21	59302	MCAL_T1	2	2	0	1.25	1.3	0.05	0	0	0	0	0	0	0	0
10/23/2024 20:21	43103	SMIL_T2	8	14	6	0.5	0.51	0.01	-0.97	-0.96	0	0	0	0	0	0
10/23/2024 20:21	67402	WAKE_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
10/23/2024 20:21	40101	HUNT_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/23/2024 20:21	67603	WARW_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
10/23/2024 20:21	44302	BEAV_T2	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
10/23/2024 20:21	54001	SDLE_T1	209	198	-11	0.33	0.34	0.01	0	0	0	0	0	0	0	0
10/23/2024 20:21	14801	TREI_T2	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:21	46101	MACI_T2	0	0	0	0	0	0	0.69	0.66	0	0	0	0	0	0
10/23/2024 20:21	14802	TREI_T2	1	1	0	0.1	0.1	0	0.37	0.35	0	0	0	0	0	0
10/23/2024 20:21	44801	EDAN_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
10/23/2024 20:21	12002	HATF_T1	1	1	0	2.8	2.7	-0.1	0	0	0	0	0	0	0	0
10/23/2024 20:21	43102	SMIL_T2	6	7	1	1.02	0.96	-0.06	0	0	0	0	0	0	0	0
10/23/2024 20:21	12001	HATF_T1	0	0	0	0	0	0	1.36	1.39	1	1	0	600	600	0
10/23/2024 20:21	59301	MCAL_T1	81	82	1	0.56	0.62	0.06	-1.23	-1.25	0	0	0	0	0	0
10/23/2024 20:21	67605	WARW_T1	13	12	-1	0.41	0.35	-0.06	0	0	0	0	0	0	0	0
10/23/2024 20:22	64201	KINZ_T1	1	4	3	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
10/23/2024 20:22	58402	MORO_T1	0	0	0	0	0	0	0.31	0.31	1	1	0	900	900	0
10/23/2024 20:22	64202	KINZ_T1	3	3	0	0.23	0.97	0.74	0	0	0	0	0	0	0	0
10/23/2024 20:22	64303	LINC_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
10/23/2024 20:22	54001	SDLE_T1	209	198	-11	0.33	0.34	0.01	0	0	0	0	0	0	0	0
10/23/2024 20:22	14403	SSLA_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
10/23/2024 20:22	64204	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
10/23/2024 20:22	52001	LING_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
10/23/2024 20:22	14401	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:22	59003	MIFF_T1	1	1	0	1.1	1.2	0.1	0.47	0.26	0	0	0	0	0	0
10/23/2024 20:22	46001	BERW_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
10/23/2024 20:22	66701	STRA_T1	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
10/23/2024 20:22	14402	SSLA_T1	1	3	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:22	46004	BERW_T2	0	0	0	0	0	0	0.09	0.02	0	0	0	0	0	0
10/23/2024 20:22	40601	PIGR_T1	179	175	-4	0.44	0.36	-0.08	0	0	0	0	0	0	0	0
10/23/2024 20:22	40602	PIGR_T1	1	1	0	0.8	0.5	-0.3	-0.71	-0.07	1	0	-1	600	0	-600
10/23/2024 20:22	66703	STRA_T1	3	4	1	0.13	0.28	0.15	0	0	0	0	0	0	0	0
10/23/2024 20:22	64802	MONE_T2	70	32	-38	0.15	0.19	0.04	0.21	0.22	0	0	0	0	0	0
10/23/2024 20:22	59002	MIFF_T1	5	5	0	1.42	1.42	0	0	0	0	0	0	0	0	0
10/23/2024 20:22	64801	MONE_T2	32	37	5	0.19	0.2	0.01	0	0	0	0	0	0	0	0
10/23/2024 20:23	58401	MORO_T1	0	0	0	0	0	0	-2.48	-2.48	2	2	0	1200	1200	0
10/23/2024 20:23	43102	SMIL_T2	6	7	1	1.02	0.96	-0.06	0	0	0	0	0	0	0	0
10/23/2024 20:23	67001	STHI_T2	383	382	-1	0.2	0.2	0	0.1	0.09	0	0	0	0	0	0
10/23/2024 20:23	52006	LING_T2	2	2	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:23	64203	KINZ_T1	0	0	0	0	0	0	-0.12	-0.14	1	1	0	600	600	0
10/23/2024 20:23	44301	BEAV_T2	0	0	0	0	0	0	0.6	0.62	1	1	0	600	600	0
10/23/2024 20:23	57403	SPAN_T1	25	34	9	0.28	0.32	0.04	0.03	0.03	0	0	0	0	0	0
10/23/2024 20:23	57401	SPAN_T1	2	2	0	1	1.25	0.25	0	0	0	0	0	0	0	0
10/23/2024 20:23	40602	PIGR_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/23/2024 20:23	64201	KINZ_T1	1	4	3	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
10/23/2024 20:23	43105	SMIL_T2	17	17	0	0.21	0.27	0.06	0	0	0	0	0	0	0	0
10/23/2024 20:23	20401	ASHF_T2	6	6	0	0.57	0.6	0.03	-0.32	-0.31	0	0	0	0	0	0
10/23/2024 20:23	63501	HEID_TBK1-2	1	1	0	0.5	1.3	0.8	0.46	0.48	0	0	0	0	0	0
10/23/2024 20:23	57402	SPAN_T2	0	0	0	0	0	0	-1.24	-1.25	0	0	0	0	0	0
10/23/2024 20:23	55508	HERS_T2	2	2	0	1.35	1.3	-0.05	-2.59	-2.57	1	1	0	1200	1200	0
10/23/2024 20:23	67401	WAKE_T2	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
10/23/2024 20:23	52001	LING_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
10/23/2024 20:23	67002	STHI_T2	46	44	-2	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
10/23/2024 20:23	43103	SMIL_T2	8	14	6	0.5	0.51	0.01	0	0	0	0	0	0	0	0
10/23/2024 20:23	54001	SDLE_T1	209	198	-11	0.33	0.34	0.01	0	0	0	0	0	0	0	0
10/23/2024 20:23	52004	LING_T2	3	3	0	4.57	4.57	0	0.11	0.13	0	0	0	0	0	0
10/23/2024 20:23	40801	BUCH_T2	0	0	0	0	0	0	0.76	0.83	0	0	0	0	0	0
10/23/2024 20:23	64204	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
10/23/2024 20:23	63401	HONY_T1	0	0	0	0	0	0	0.5	0.6	0	0	0	0	0	0
10/23/2024 20:23	67603	WARW_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
10/23/2024 20:23	43101	SMIL_T2	0	0	0	0	0	0	-0.67	-0.71	0	0	0	0	0	0
10/23/2024 20:23	55002	NEWP_T1	3	5	2	0.53	0.5	-0.03	-0.26	-0.26	0	0	0	0	0	0
10/23/2024 20:23	67605	WARW_T1	13	12	-1	0.41	0.35	-0.06	0	0	0	0	0	0	0	0
10/23/2024 20:23	44802	EDAN_T2	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
10/23/2024 20:23	40601	PIGR_T1	179	175	-4	0.44	0.36	-0.08	-0.15	-0.18	0	0	0	0	0	0
10/23/2024 20:23	64202	KINZ_T1	3	3	0	0.23	0.97	0.74	0	0	0	0	0	0	0	0
10/23/2024 20:23	42503	ALTA_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
10/23/2024 20:24	42903	MIDD_T2	2	2	0	1.45	1.1	-0.35	0	0	0	0	0	0	0	0
10/23/2024 20:24	59301	MCAL_T1	81	82	1	0.56	0.62	0.06	0	0	0	0	0	0	0	0
10/23/2024 20:24	67402	WAKE_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
10/23/2024 20:24	47401	PENS_T1	0	0	0	0	0	0	1.05	1.07	0	0	0	0	0	0
10/23/2024 20:24	52001	LING_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
10/23/2024 20:24	59302	MCAL_T1	2	2	0	1.25	1.3	0.05	0	0	0	0	0	0	0	0
10/23/2024 20:24	58401	MORO_T1	0	0	0	0	0	0	-1.24	-1.24	1	1	0	600	600	0
10/23/2024 20:24	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.03	0	0	0	0	0	0
10/23/2024 20:24	66505	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/23/2024 20:24	42902	MIDD_T2	4	0	-4	0.1	0	-0.1	-0.33	-0.37	0	0	0	0	0	0
10/23/2024 20:24	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:25	67802	WLAN_T1	39	34	-5	0.57	0.47	-0.1	0	0	0	0	0	0	0	0
10/23/2024 20:25	65802	RTWN_T2	0	0	0	0	0	0	-0.19	-0.25	0	0	0	0	0	0
10/23/2024 20:25	17001	RIRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:25	48901	FOSP_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
10/23/2024 20:25	44801	EDAN_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
10/23/2024 20:25	52001	LING_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
10/23/2024 20:25	65803	RTWN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/23/2024 20:25	67805	WLAN_T1	486	471	-15	0.51	0.46	-0.05	-1.36	-1.4	0	0	0	0	0	0
10/23/2024 20:25	67801	WLAN_T1	54	22	-32	0.19	0.16	-0.03	0	0	0	0	0	0	0	0
10/23/2024 20:25	67803	WLAN_T1	204	125	-79	0.14	0.14	0	0	0	0	0	0	0	0	0
10/23/2024 20:25	67804	WLAN_T1	78	72	-6	0.19	0.15	-0.04	0	0	0	0	0	0	0	0
10/23/2024 20:25	66703	STRA_T1	3	4	1	0.13	0.28	0.15	-0.27	-0.3	0	0	0	0	0	0
10/23/2024 20:25	54602	SUMM_T2	16	15	-1	0.77	0.69	-0.08	0	0	0	0	0	0	0	0
10/23/2024 20:25	54603	SUMM_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
10/23/2024 20:25	54601	SUMM_T2	13	13	0	1.02	1.14	0.12	-4.04	-4.07	2	2	0	2100	2100	0
10/23/2024 20:25	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:25	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:26	53501	EVIL_T2	2	2	0	0.25	0.2	-0.05	-0.24	-0.25	0	0	0	0	0	0
10/23/2024 20:26	55101	WERT_T1	0	0	0	0	0	0	-0.98	-1.11	1	1	0	600	600	0
10/23/2024 20:26	52001	LING_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:26	64901	MILL_T1	6	4	-2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/23/2024 20:26	63501	HEID_TBK1-2	1	1	0	0.5	1.3	0.8	0.46	0.48	0	0	0	0	0	0
10/23/2024 20:26	64904	MILL_T1	0	0	0	0	0	0	0.52	0.46	0	0	0	0	0	0
10/23/2024 20:26	52204	DEVO_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/23/2024 20:26	52202	DEVO_T2	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
10/23/2024 20:26	67401	WAKE_T2	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
10/23/2024 20:27	66504	SMAN_T2	0	0	0	0	0	0	-0.29	-0.4	0	0	0	0	0	0
10/23/2024 20:27	58401	MORO_T1	0	0	0	0	0	0	-1.24	-1.24	1	1	0	600	600	0
10/23/2024 20:27	66505	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/23/2024 20:27	55105	WERT_T1	0	0	0	0	0	0	-0.6	-0.62	1	1	0	900	900	0
10/23/2024 20:28	65601	QVIL_T2	23	34	11	0.12	0.14	0.02	0	0	0	0	0	0	0	0
10/23/2024 20:28	65502	MOJO_T2	2	9	7	0.1	0.1	0	-0.86	-0.78	0	0	0	0	0	0
10/23/2024 20:29	57401	SPAN_T1	2	2	0	1	1.25	0.25	0	0	0	0	0	0	0	0
10/23/2024 20:29	57403	SPAN_T1	25	34	9	0.28	0.32	0.04	0.03	0.03	0	0	0	0	0	0
10/23/2024 20:33	44802	EDAN_T2	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
10/23/2024 20:34	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/23/2024 20:34	10101	ALLE_T3	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
10/23/2024 20:47	46801	HEPB_T2	2	3	1	0.8	0.67	-0.13	0.56	0.54	0	0	0	0	0	0
10/23/2024 20:47	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:50	14801	TREI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/23/2024 20:50	14802	TREI_T2	1	3	2	0.1	0.13	0.03	0.35	0.35	0	0	0	0	0	0
10/23/2024 20:51	44505	HAMI_T2	0	0	0	0	0	0	0.67	0.63	0	0	0	0	0	0
10/23/2024 20:51	44502	HAMI_T2	1	1	0	3.1	3.3	0.2	0	0	0	0	0	0	0	0
10/23/2024 21:03	28102	TWLA_T2	31	29	-2	0.56	0.71	0.15	0.19	0.19	0	0	0	0	0	0
10/23/2024 22:14	14201	EALL_T1	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
10/23/2024 23:00	43103	SMIL_T2	22	22	0	0.92	0.75	-0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/23/2024 23:00	43102	SMIL_T2	6	6	0	0.67	0.27	-0.4	0	0	0	0	0	0	0	0
10/23/2024 23:00	43105	SMIL_T2	10	0	-10	0.17	0	-0.17	0	0	0	0	0	0	0	0
10/23/2024 23:00	43101	SMIL_T2	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
10/23/2024 23:05	12002	HATF_T1	1	1	0	3.3	3.1	-0.2	0.02	0.04	1	1	0	1200	1200	0
10/24/2024 7:54	55101	WERT_T1	0	0	0	0	0	0	-0.95	-0.71	1	1	0	600	600	0
10/24/2024 8:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 8:14	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/24/2024 8:14	54505	ENOL_T2	1	1	0	0.6	1	0.4	-1.43	-1.39	1	1	0	600	600	0
10/24/2024 8:14	54501	ENOL_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
10/24/2024 8:19	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/24/2024 8:21	15202	SFAR_T1	0	0	0	0	0	0	-0.46	-0.52	1	1	0	1200	1200	0
10/24/2024 8:36	55002	NEWP_T1	5	5	0	1	0.88	-0.12	-0.27	-0.26	0	0	0	0	0	0
10/24/2024 8:51	46101	MACI_T2	8	13	5	0.1	0.11	0.01	0.49	0.43	1	1	0	1200	1200	0
10/24/2024 8:54	67502	WEWI_T2	9	1	-8	0.1	0.6	0.5	0	0	0	0	0	0	0	0
10/24/2024 8:54	67503	WEWI_T2	1	1	0	9.3	9.5	0.2	-0.27	-0.27	0	0	0	0	0	0
10/24/2024 8:56	12606	MACA_T1	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
10/24/2024 8:59	50625	CCTY_T2	6	6	0	2.38	2.43	0.05	0	0	0	0	0	0	0	0
10/24/2024 8:59	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 8:59	50623	CCTY_T2	5	5	0	5.76	5.38	-0.38	0	0	0	0	0	0	0	0
10/24/2024 8:59	50624	CCTY_T2	2	2	0	5.6	5.45	-0.15	0	0	0	0	0	0	0	0
10/24/2024 9:05	15704	TANN_T1	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
10/24/2024 9:05	15701	TANN_T1	2	1	-1	2.4	4.7	2.3	0	0	0	0	0	0	0	0
10/24/2024 9:09	45902	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/24/2024 9:09	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 9:09	45901	AUBU_T1	0	0	0	0	0	0	1.87	1.86	0	0	0	0	0	0
10/24/2024 9:11	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 9:18	64903	MILL_T2	0	0	0	0	0	0	0.46	0.42	0	0	0	0	0	0
10/24/2024 9:19	41502	FAIR_T2	0	0	0	0	0	0	-1.74	-1.72	1	1	0	900	900	0
10/24/2024 9:19	13303	ORVI_T1	0	0	0	0	0	0	0.98	0.96	0	0	0	0	0	0
10/24/2024 9:22	57401	SPAN_T1	1	2	1	0.1	0.75	0.65	0	0	0	0	0	0	0	0
10/24/2024 9:22	57403	SPAN_T1	1	163	162	0.1	0.32	0.22	0	0	0	0	0	0	0	0
10/24/2024 9:26	17902	BART_T2	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
10/24/2024 9:27	53501	EVIL_T2	3	2	-1	0.83	0.65	-0.18	0.26	0.16	0	0	0	0	0	0
10/24/2024 9:28	44503	HAMI_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
10/24/2024 9:28	44502	HAMI_T2	1	1	0	3.6	3.3	-0.3	0	0	0	0	0	0	0	0
10/24/2024 9:29	46803	HEPB_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/24/2024 9:29	46801	HEPB_T2	3	5	2	0.87	0.6	-0.27	1.03	1.01	0	0	0	0	0	0
10/24/2024 9:30	54503	ENOL_T2	0	0	0	0	0	0	-0.45	-0.44	1	1	0	600	600	0
10/24/2024 9:30	54501	ENOL_T2	4	4	0	0.25	0.73	0.48	0	0	0	0	0	0	0	0
10/24/2024 9:30	54505	ENOL_T2	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
10/24/2024 9:30	54502	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/24/2024 9:31	24104	EHAZ_T1	0	0	0	0	0	0	-0.91	-0.88	1	1	0	1200	1200	0
10/24/2024 9:31	24101	EHAZ_T1	0	3	3	0	1	1	0	0	0	0	0	0	0	0
10/24/2024 9:31	24105	EHAZ_T1	4	4	0	6.03	5.88	-0.15	0	0	0	0	0	0	0	0
10/24/2024 9:32	64701	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 9:33	64702	LITI_T2	0	0	0	0	0	0	-0.81	-0.8	0	0	0	0	0	0
10/24/2024 9:34	14704	TREX_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/24/2024 9:34	15603	NSTR_T2	1	1	0	0.3	0.5	0.2	-0.68	-0.67	0	0	0	0	0	0
10/24/2024 9:34	15601	NSTR_T2	3	3	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
10/24/2024 9:34	67103	SPRI_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
10/24/2024 9:34	14705	TREX_T1	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
10/24/2024 9:35	57205	ROSS_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/24/2024 9:35	57203	ROSS_T1	1	1	0	0.2	0.4	0.2	-0.74	-0.78	0	0	0	0	0	0
10/24/2024 9:35	64302	LINC_T2	0	0	0	0	0	0	1.22	1.21	0	0	0	0	0	0
10/24/2024 9:35	57201	ROSS_T1	1	18	17	0.1	0.14	0.04	-0.64	-0.56	0	0	0	0	0	0
10/24/2024 9:35	67106	SPRI_T2	0	0	0	0	0	0	-1.19	-1.2	1	1	0	900	900	0
10/24/2024 9:35	64304	LINC_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/24/2024 9:36	57205	ROSS_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/24/2024 9:36	57201	ROSS_T1	1	18	17	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/24/2024 9:36	57203	ROSS_T1	1	1	0	0.2	0.4	0.2	-0.37	-0.39	0	0	0	0	0	0
10/24/2024 9:38	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 9:40	67605	WARW_T1	43	43	0	0.67	0.77	0.1	0	0	0	0	0	0	0	0
10/24/2024 9:40	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/24/2024 9:40	64602	LEOL_T1	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
10/24/2024 9:41	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/24/2024 9:41	67605	WARW_T1	43	43	0	0.67	0.77	0.1	0	0	0	0	0	0	0	0
10/24/2024 9:41	60801	BUCK_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
10/24/2024 9:43	45802	HEGI_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/24/2024 9:47	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 9:48	64701	LITI_T1	0	0	0	0	0	0	0.42	0.33	0	0	0	0	0	0
10/24/2024 9:48	65502	MOJO_T2	0	0	0	0	0	0	-0.47	-0.43	0	0	0	0	0	0
10/24/2024 9:53	67605	WARW_T1	40	43	3	0.79	0.7	-0.09	0	0	0	0	0	0	0	0
10/24/2024 9:53	67603	WARW_T1	0	1	1	0	0.2	0.2	-0.06	-0.04	0	0	0	0	0	0
10/24/2024 9:54	46002	BERW_T2	2	0	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
10/24/2024 9:54	67603	WARW_T1	0	1	1	0	0.2	0.2	-0.17	-0.13	0	0	0	0	0	0
10/24/2024 9:54	67605	WARW_T1	40	43	3	0.79	0.7	-0.09	0	0	0	0	0	0	0	0
10/24/2024 9:54	46004	BERW_T2	2	1	-1	0.2	0.1	-0.1	-0.21	-0.13	0	0	0	0	0	0
10/24/2024 9:55	46004	BERW_T2	2	1	-1	0.2	0.1	-0.1	-0.21	-0.13	0	0	0	0	0	0
10/24/2024 9:55	46002	BERW_T2	2	0	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
10/24/2024 9:56	10805	CHHI_T2	1	1	0	7.8	7.7	-0.1	-1.14	-1.12	1	1	0	1200	1200	0
10/24/2024 9:56	67605	WARW_T1	40	43	3	0.79	0.7	-0.09	0	0	0	0	0	0	0	0
10/24/2024 9:56	67603	WARW_T1	0	1	1	0	0.2	0.2	-0.06	-0.04	0	0	0	0	0	0
10/24/2024 9:57	54501	ENOL_T2	4	4	0	0.33	0.73	0.4	0	0	0	0	0	0	0	0
10/24/2024 9:57	54505	ENOL_T2	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
10/24/2024 9:57	54503	ENOL_T2	0	0	0	0	0	0	-0.44	-0.45	1	1	0	600	600	0
10/24/2024 9:57	54502	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/24/2024 9:58	54505	ENOL_T2	1	1	0	1	1.3	0.3	-1.39	-1.4	1	1	0	600	600	0
10/24/2024 9:58	54502	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/24/2024 9:58	54501	ENOL_T2	4	4	0	0.33	0.73	0.4	0	0	0	0	0	0	0	0
10/24/2024 9:59	54505	ENOL_T2	1	1	0	1	1.3	0.3	-1.39	-1.4	1	1	0	600	600	0
10/24/2024 9:59	54503	ENOL_T2	0	0	0	0	0	0	-0.88	-0.9	2	2	0	1200	1200	0
10/24/2024 9:59	54501	ENOL_T2	4	4	0	0.33	0.73	0.4	-0.55	-0.58	1	1	0	600	600	0
10/24/2024 9:59	54502	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/24/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
10/24/2024 10:00	67503	WEWI_T2	1	1	0	9.7	9.2	-0.5	-0.26	-0.26	0	0	0	0	0	0
10/24/2024 10:00	54505	ENOL_T2	1	1	0	1.3	1	-0.3	-2.78	-2.8	2	2	0	1200	1200	0
10/24/2024 10:00	54501	ENOL_T2	4	4	0	0.73	0.3	-0.43	0	0	0	0	0	0	0	0
10/24/2024 10:00	67605	WARW_T1	43	35	-8	0.7	0.56	-0.14	0	0	0	0	0	0	0	0
10/24/2024 10:00	54503	ENOL_T2	0	0	0	0	0	0	-0.44	-0.45	1	1	0	600	600	0
10/24/2024 10:00	57201	ROSS_T1	18	0	-18	0.14	0	-0.14	0	0	0	0	0	0	0	0
10/24/2024 10:00	54502	ENOL_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
10/24/2024 10:00	55001	NEWP_T1	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
10/24/2024 10:00	67502	WEWI_T2	21	3	-18	0.12	0.43	0.31	0	0	0	0	0	0	0	0
10/24/2024 10:00	57205	ROSS_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
10/24/2024 10:00	57203	ROSS_T1	1	1	0	0.4	0.1	-0.3	-0.37	-0.4	0	0	0	0	0	0
10/24/2024 10:00	44502	HAMI_T2	2	1	-1	1.85	3.6	1.75	-0.93	-0.87	0	0	0	0	0	0
10/24/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	0.52	0.52	1	1	0	600	600	0
10/24/2024 10:00	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/24/2024 10:00	63501	HEID_TBK1-2	5	2	-3	0.7	0.95	0.25	1.81	1.79	0	0	0	0	0	0
10/24/2024 10:00	55002	NEWP_T1	21	16	-5	0.75	0.76	0.01	-0.22	-0.23	0	0	0	0	0	0
10/24/2024 10:00	46602	LACR_T1	1	1	0	1.2	1.7	0.5	-1.09	-1.02	0	0	0	0	0	0
10/24/2024 10:00	28102	TWLA_T2	2	4	2	0.2	0.18	-0.02	0.16	0.15	0	0	0	0	0	0
10/24/2024 10:00	65502	MOJO_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
10/24/2024 10:00	54504	ENOL_T2	0	0	0	0	0	0	-1.19	-1.18	1	1	0	600	600	0
10/24/2024 10:00	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/24/2024 10:01	46803	HEPB_T2	3	5	2	0.27	0.44	0.17	0.42	0.39	0	0	0	0	0	0
10/24/2024 10:01	46801	HEPB_T2	4	8	4	0.65	0.43	-0.22	0	0	0	0	0	0	0	0
10/24/2024 10:01	54505	ENOL_T2	1	1	0	1.3	1	-0.3	-1.39	-1.4	1	1	0	600	600	0
10/24/2024 10:01	54502	ENOL_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
10/24/2024 10:01	46602	LACR_T1	1	1	0	1.2	1.7	0.5	-1.09	-1.02	0	0	0	0	0	0
10/24/2024 10:01	54501	ENOL_T2	4	4	0	0.73	0.3	-0.43	0	0	0	0	0	0	0	0
10/24/2024 10:01	41801	GOCI_T2	0	5	5	0	0.48	0.48	0	0	0	0	0	0	0	0
10/24/2024 10:02	54505	ENOL_T2	1	1	0	1.3	1	-0.3	-1.39	-1.4	1	1	0	600	600	0
10/24/2024 10:02	54701	NEBL_T1	7	7	0	1.2	0.67	-0.53	0	0	0	0	0	0	0	0
10/24/2024 10:02	54502	ENOL_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
10/24/2024 10:02	54501	ENOL_T2	4	4	0	0.73	0.3	-0.43	0	0	0	0	0	0	0	0
10/24/2024 10:05	15202	SFAR_T1	0	0	0	0	0	0	-0.47	-0.39	1	1	0	1200	1200	0
10/24/2024 10:06	55002	NEWP_T1	21	16	-5	0.75	0.76	0.01	-0.22	-0.23	0	0	0	0	0	0
10/24/2024 10:06	46802	HEPB_T1	1	3	2	1.5	0.7	-0.8	-0.35	-0.35	0	0	0	0	0	0
10/24/2024 10:06	67605	WARW_T1	43	35	-8	0.7	0.56	-0.14	0	0	0	0	0	0	0	0
10/24/2024 10:06	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/24/2024 10:06	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/24/2024 10:06	15202	SFAR_T1	0	0	0	0	0	0	-0.39	-0.39	1	1	0	1200	1200	0
10/24/2024 10:06	13303	ORVI_T1	0	0	0	0	0	0	1.05	1.07	0	0	0	0	0	0
10/24/2024 10:06	55001	NEWP_T1	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
10/24/2024 10:06	55003	NEWP_T2	15	15	0	0.51	0.58	0.07	-0.2	-0.19	0	0	0	0	0	0
10/24/2024 10:07	55002	NEWP_T1	21	16	-5	0.75	0.76	0.01	-0.23	-0.21	0	0	0	0	0	0
10/24/2024 10:07	67605	WARW_T1	43	35	-8	0.7	0.56	-0.14	0	0	0	0	0	0	0	0
10/24/2024 10:07	13704	SCHN_T2	0	1	1	0	0.2	0.2	-0.35	-0.36	0	0	0	0	0	0
10/24/2024 10:07	55001	NEWP_T1	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
10/24/2024 10:07	54501	ENOL_T2	4	4	0	0.73	0.3	-0.43	0	0	0	0	0	0	0	0
10/24/2024 10:07	54502	ENOL_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
10/24/2024 10:07	54503	ENOL_T2	0	0	0	0	0	0	-0.45	-0.41	1	1	0	600	600	0
10/24/2024 10:07	67603	WARW_T1	0	1	1	0	0.4	0.4	-0.04	-0.04	0	0	0	0	0	0
10/24/2024 10:07	54505	ENOL_T2	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
10/24/2024 10:08	67605	WARW_T1	43	35	-8	0.7	0.56	-0.14	0	0	0	0	0	0	0	0
10/24/2024 10:08	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/24/2024 10:08	67603	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/24/2024 10:08	15203	SFAR_T2	2	3	1	0.3	0.4	0.1	-2.67	-2.7	0	0	0	0	0	0
10/24/2024 10:09	13704	SCHN_T2	0	1	1	0	0.2	0.2	-0.35	-0.36	0	0	0	0	0	0
10/24/2024 10:10	20403	ASHF_T2	15	69	54	0.3	0.27	-0.03	1.29	1.27	0	0	0	0	0	0
10/24/2024 10:10	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/24/2024 10:11	57203	ROSS_T1	1	1	0	0.4	0.1	-0.3	-0.4	-0.38	0	0	0	0	0	0
10/24/2024 10:11	57201	ROSS_T1	18	0	-18	0.14	0	-0.14	0	0	0	0	0	0	0	0
10/24/2024 10:11	57205	ROSS_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
10/24/2024 10:12	57205	ROSS_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
10/24/2024 10:12	57203	ROSS_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
10/24/2024 10:12	57201	ROSS_T1	18	0	-18	0.14	0	-0.14	-0.54	-0.51	0	0	0	0	0	0
10/24/2024 10:12	64602	LEOL_T1	0	0	0	0	0	0	0.25	0.34	0	0	0	0	0	0
10/24/2024 10:13	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/24/2024 10:13	20403	ASHF_T2	15	69	54	0.3	0.27	-0.03	1.29	1.27	0	0	0	0	0	0
10/24/2024 10:14	11203	ELHE_T1	0	0	0	0	0	0	1.02	1.04	0	0	0	0	0	0
10/24/2024 10:14	41801	GOCI_T2	0	5	5	0	0.48	0.48	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/24/2024 10:15	11202	ELHE_T2	0	0	0	0	0	0	0.45	0.45	1	1	0	1200	1200	0
10/24/2024 10:15	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 10:17	63501	HEID_TBK1-2	2	2	0	0.9	0.95	0.05	1.19	1.2	0	0	0	0	0	0
10/24/2024 10:18	50504	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/24/2024 10:18	67603	WARW_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/24/2024 10:18	50502	MECH_T1	1	1	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0
10/24/2024 10:18	50505	MECH_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/24/2024 10:18	50501	MECH_T1	4	4	0	1.05	1.13	0.08	0.04	-0.06	0	0	0	0	0	0
10/24/2024 10:18	67605	WARW_T1	30	40	10	0.56	0.56	0	-1.21	-1.15	0	0	0	0	0	0
10/24/2024 10:18	50506	MECH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/24/2024 10:19	55002	NEWP_T1	10	18	8	0.92	0.79	-0.13	0	0	0	0	0	0	0	0
10/24/2024 10:19	59301	MCAL_T1	5	8	3	0.56	0.66	0.1	-1.38	-1.39	1	1	0	600	600	0
10/24/2024 10:19	55001	NEWP_T1	1	3	2	0.2	0.2	0	0.08	0.09	0	0	0	0	0	0
10/24/2024 10:20	57403	SPAN_T1	11	44	33	0.14	0.29	0.15	-0.08	-0.01	0	0	0	0	0	0
10/24/2024 10:20	57401	SPAN_T1	2	2	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
10/24/2024 10:21	67603	WARW_T1	1	1	0	0.2	0.4	0.2	-0.04	-0.07	0	0	0	0	0	0
10/24/2024 10:21	15204	SFAR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/24/2024 10:21	57203	ROSS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/24/2024 10:21	57205	ROSS_T1	1	2	1	0.2	0.65	0.45	0	0	0	0	0	0	0	0
10/24/2024 10:21	67605	WARW_T1	30	40	10	0.56	0.56	0	-2.29	-2.35	0	0	0	0	0	0
10/24/2024 10:21	15203	SFAR_T2	2	3	1	0.35	0.4	0.05	-1.35	-1.31	0	0	0	0	0	0
10/24/2024 10:21	57201	ROSS_T1	0	0	0	0	0	0	-0.54	-0.51	0	0	0	0	0	0
10/24/2024 10:22	67106	SPRI_T2	0	0	0	0	0	0	-1.2	-1.18	1	1	0	900	900	0
10/24/2024 10:22	65601	QVIL_T2	0	1	1	0	1	1	-1.08	-1.17	1	1	0	900	900	0
10/24/2024 10:22	65602	QVIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
10/24/2024 10:23	57201	ROSS_T1	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
10/24/2024 10:23	57205	ROSS_T1	1	2	1	0.2	0.65	0.45	0	0	0	0	0	0	0	0
10/24/2024 10:23	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 10:23	57203	ROSS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/24/2024 10:24	46002	BERW_T2	1	4	3	0.1	0.38	0.28	0	0	0	0	0	0	0	0
10/24/2024 10:24	46004	BERW_T2	0	2	2	0	0.35	0.35	-0.38	-0.26	0	0	0	0	0	0
10/24/2024 10:26	46004	BERW_T2	0	2	2	0	0.35	0.35	-0.19	-0.13	0	0	0	0	0	0
10/24/2024 10:26	46002	BERW_T2	1	4	3	0.1	0.38	0.28	0	0	0	0	0	0	0	0
10/24/2024 10:26	44801	EDAN_T2	1	6	5	0.1	0.4	0.3	-0.49	-0.48	0	0	0	0	0	0
10/24/2024 10:27	57205	ROSS_T1	1	2	1	0.2	0.65	0.45	0.22	0.27	0	0	0	0	0	0
10/24/2024 10:27	44801	EDAN_T2	1	6	5	0.1	0.4	0.3	-0.49	-0.48	0	0	0	0	0	0
10/24/2024 10:27	57203	ROSS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/24/2024 10:28	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 10:28	21206	ECAR_T2	1	1	0	7.8	7.8	0	0.21	0.19	0	0	0	0	0	0
10/24/2024 10:33	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 10:35	43801	SWIL_T1	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
10/24/2024 10:35	43802	SWIL_T1	0	0	0	0	0	0	-0.13	-0.16	1	1	0	600	600	0
10/24/2024 10:36	54602	SUMM_T2	16	15	-1	0.54	0.41	-0.13	0	0	0	0	0	0	0	0
10/24/2024 10:36	57401	SPAN_T1	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
10/24/2024 10:36	43801	SWIL_T1	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
10/24/2024 10:36	57403	SPAN_T1	30	101	71	0.29	0.22	-0.07	0	0	0	0	0	0	0	0
10/24/2024 10:36	54601	SUMM_T2	7	11	4	0.57	0.53	-0.04	-3.25	-3.23	1	1	0	1200	1200	0
10/24/2024 10:36	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 10:37	54601	SUMM_T2	7	11	4	0.57	0.53	-0.04	-3.23	-3.26	1	1	0	1200	1200	0
10/24/2024 10:37	59202	THOM_T1	34	181	147	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
10/24/2024 10:37	59201	THOM_T1	6	21	15	0.28	0.31	0.03	0	0	0	0	0	0	0	0
10/24/2024 10:37	54602	SUMM_T2	16	15	-1	0.54	0.41	-0.13	0	0	0	0	0	0	0	0
10/24/2024 10:38	59202	THOM_T1	34	181	147	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
10/24/2024 10:38	59201	THOM_T1	6	21	15	0.28	0.31	0.03	0	0	0	0	0	0	0	0
10/24/2024 10:39	54601	SUMM_T2	7	11	4	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
10/24/2024 10:39	57401	SPAN_T1	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
10/24/2024 10:39	54603	SUMM_T2	0	0	0	0	0	0	-0.38	-0.36	1	1	0	900	900	0
10/24/2024 10:39	66504	SMAN_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
10/24/2024 10:39	57205	ROSS_T1	2	3	1	0.45	0.63	0.18	0.27	0.25	0	0	0	0	0	0
10/24/2024 10:39	43802	SWIL_T1	0	0	0	0	0	0	-0.16	-0.14	1	1	0	600	600	0
10/24/2024 10:39	57402	SPAN_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
10/24/2024 10:39	66501	SMAN_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/24/2024 10:39	43801	SWIL_T1	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
10/24/2024 10:39	66502	SMAN_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
10/24/2024 10:39	54602	SUMM_T2	16	15	-1	0.54	0.41	-0.13	0	0	0	0	0	0	0	0
10/24/2024 10:39	57203	ROSS_T1	1	1	0	0.1	0.2	0.1	-0.34	-0.38	0	0	0	0	0	0
10/24/2024 10:39	57403	SPAN_T1	30	101	71	0.29	0.22	-0.07	-0.28	-0.22	0	0	0	0	0	0
10/24/2024 10:40	47103	MARL_T2	3	3	0	0.13	0.4	0.27	-1.36	-1.32	0	0	0	0	0	0
10/24/2024 10:40	47102	MARL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/24/2024 10:40	15001	BLMO_T1	5	6	1	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
10/24/2024 10:40	59201	THOM_T1	6	21	15	0.28	0.31	0.03	0	0	0	0	0	0	0	0
10/24/2024 10:40	59202	THOM_T1	34	181	147	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
10/24/2024 10:41	54601	SUMM_T2	7	11	4	0.57	0.53	-0.04	-3.23	-3.26	1	1	0	1200	1200	0
10/24/2024 10:41	54602	SUMM_T2	16	15	-1	0.54	0.41	-0.13	0	0	0	0	0	0	0	0
10/24/2024 10:42	14705	TREX_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
10/24/2024 10:42	53501	EVIL_T2	3	3	0	0.67	0.8	0.13	0.56	0.47	0	0	0	0	0	0
10/24/2024 10:43	54202	PENN_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
10/24/2024 10:43	53501	EVIL_T2	3	3	0	0.67	0.8	0.13	0.56	0.47	0	0	0	0	0	0
10/24/2024 10:43	54206	PENN_T2	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
10/24/2024 10:44	53501	EVIL_T2	3	3	0	0.67	0.8	0.13	0.28	0.24	0	0	0	0	0	0
10/24/2024 10:46	44801	EDAN_T2	1	2	1	0.2	0.65	0.45	-0.48	-0.47	0	0	0	0	0	0
10/24/2024 10:46	53501	EVIL_T2	3	4	1	0.73	0.65	-0.08	0.28	0.24	0	0	0	0	0	0
10/24/2024 10:47	46803	HEPB_T2	5	6	1	0.44	0.52	0.08	0	0	0	0	0	0	0	0
10/24/2024 10:47	46801	HEPB_T2	9	13	4	0.44	0.37	-0.07	0.54	0.56	0	0	0	0	0	0
10/24/2024 10:48	46801	HEPB_T2	9	13	4	0.44	0.37	-0.07	0.54	0.56	0	0	0	0	0	0
10/24/2024 10:48	46803	HEPB_T2	5	6	1	0.44	0.52	0.08	0	0	0	0	0	0	0	0
10/24/2024 10:50	54001	SDLE_T1	24	119	95	0.76	0.38	-0.38	0	0	0	0	0	0	0	0
10/24/2024 10:50	66502	SMAN_T2	2	3	1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
10/24/2024 10:50	66504	SMAN_T2	1	1	0	0.5	0.8	0.3	-0.4	-0.46	0	0	0	0	0	0
10/24/2024 10:50	66501	SMAN_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/24/2024 10:51	66504	SMAN_T2	1	1	0	0.5	0.8	0.3	-0.92	-0.78	0	0	0	0	0	0
10/24/2024 10:51	54202	PENN_T2	1	3	2	0.5	0.57	0.07	0	0	0	0	0	0	0	0
10/24/2024 10:51	54206	PENN_T2	0	3	3	0	0.2	0.2	0.06	0.02	0	0	0	0	0	0
10/24/2024 10:51	66501	SMAN_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/24/2024 10:51	66502	SMAN_T2	2	3	1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
10/24/2024 10:52	65601	QVIL_T2	1	2	1	0.6	0.65	0.05	0	0	0	0	0	0	0	0
10/24/2024 10:52	66504	SMAN_T2	1	1	0	0.5	0.8	0.3	-0.46	-0.39	0	0	0	0	0	0
10/24/2024 10:52	66501	SMAN_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/24/2024 10:52	66502	SMAN_T2	2	3	1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
10/24/2024 10:52	65602	QVIL_T2	2	8	6	0.15	0.15	0	0	0	0	0	0	0	0	0
10/24/2024 10:52	54001	SDLE_T1	24	119	95	0.76	0.38	-0.38	0	0	0	0	0	0	0	0
10/24/2024 10:53	66504	SMAN_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/24/2024 10:53	54001	SDLE_T1	24	119	95	0.76	0.38	-0.38	0	0	0	0	0	0	0	0
10/24/2024 10:53	66505	SMAN_T2	0	0	0	0	0	0	0.29	0.32	1	1	0	900	900	0
10/24/2024 10:53	66502	SMAN_T2	2	3	1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
10/24/2024 10:53	66501	SMAN_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/24/2024 10:54	54001	SDLE_T1	24	119	95	0.76	0.38	-0.38	0	0	0	0	0	0	0	0
10/24/2024 10:54	10805	CHHI_T2	1	1	0	7.5	8.3	0.8	-0.8	-1.31	1	1	0	1200	600	-600
10/24/2024 10:55	10805	CHHI_T2	1	1	0	7.5	8.3	0.8	-0.8	-1.31	1	1	0	1200	600	-600
10/24/2024 10:57	10801	CHHI_T1	3	3	0	0.33	0.27	-0.06	-0.64	-0.67	1	1	0	900	900	0
10/24/2024 10:58	43101	SMIL_T2	1	2	1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
10/24/2024 10:58	43105	SMIL_T2	6	6	0	0.37	0.47	0.1	0	0	0	0	0	0	0	0
10/24/2024 10:58	43108	SMIL_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/24/2024 10:58	43104	SMIL_T2	4	4	0	0.43	0.7	0.27	-0.81	-0.81	1	1	0	300	300	0
10/24/2024 10:58	43103	SMIL_T2	23	26	3	0.86	0.83	-0.03	0	0	0	0	0	0	0	0
10/24/2024 10:58	43102	SMIL_T2	6	8	2	0.73	1.58	0.85	0	0	0	0	0	0	0	0
10/24/2024 10:59	43102	SMIL_T2	6	8	2	0.73	1.58	0.85	0	0	0	0	0	0	0	0
10/24/2024 10:59	43108	SMIL_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/24/2024 10:59	43105	SMIL_T2	6	6	0	0.37	0.47	0.1	0	0	0	0	0	0	0	0
10/24/2024 10:59	43101	SMIL_T2	1	2	1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
10/24/2024 10:59	43104	SMIL_T2	4	4	0	0.43	0.7	0.27	-1.62	-1.62	2	2	0	600	600	0
10/24/2024 10:59	43103	SMIL_T2	23	26	3	0.86	0.83	-0.03	0	0	0	0	0	0	0	0
10/24/2024 11:00	43102	SMIL_T2	5	8	3	0.8	0.78	-0.02	0	0	0	0	0	0	0	0
10/24/2024 11:00	10805	CHHI_T2	1	7	6	8.7	1.4	-7.3	-0.8	-1.31	1	1	0	1200	600	-600
10/24/2024 11:00	43108	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/24/2024 11:00	66703	STRA_T1	0	1	1	0	0.2	0.2	-0.1	-0.03	0	0	0	0	0	0
10/24/2024 11:00	43101	SMIL_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
10/24/2024 11:00	66701	STRA_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
10/24/2024 11:00	43103	SMIL_T2	25	26	1	0.8	0.84	0.04	0	0	0	0	0	0	0	0
10/24/2024 11:00	43105	SMIL_T2	5	10	5	0.46	0.34	-0.12	0	0	0	0	0	0	0	0
10/24/2024 11:00	43104	SMIL_T2	4	4	0	0.63	0.68	0.05	-0.81	-0.81	1	1	0	300	300	0
10/24/2024 11:01	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/24/2024 11:01	63602	LETO_T1	1	0	-1	0.1	0	-0.1	-0.59	-0.74	0	0	0	0	0	0
10/24/2024 11:01	59301	MCAL_T1	51	10	-41	0.28	0.65	0.37	-1.43	-1.41	1	1	0	600	600	0
10/24/2024 11:01	59302	MCAL_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
10/24/2024 11:02	43104	SMIL_T2	4	4	0	0.63	0.68	0.05	0	0	0	0	0	0	0	0
10/24/2024 11:02	43102	SMIL_T2	5	8	3	0.8	0.78	-0.02	0	0	0	0	0	0	0	0
10/24/2024 11:02	43103	SMIL_T2	25	26	1	0.8	0.84	0.04	0	0	0	0	0	0	0	0
10/24/2024 11:02	43108	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/24/2024 11:02	43101	SMIL_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
10/24/2024 11:02	43105	SMIL_T2	5	10	5	0.46	0.34	-0.12	0	0	0	0	0	0	0	0
10/24/2024 11:03	43101	SMIL_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
10/24/2024 11:03	59302	MCAL_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
10/24/2024 11:03	43102	SMIL_T2	5	8	3	0.8	0.78	-0.02	0	0	0	0	0	0	0	0
10/24/2024 11:03	59301	MCAL_T1	51	10	-41	0.28	0.65	0.37	-1.43	-1.41	1	1	0	600	600	0
10/24/2024 11:03	43108	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/24/2024 11:03	43104	SMIL_T2	4	4	0	0.63	0.68	0.05	0	0	0	0	0	0	0	0
10/24/2024 11:03	43103	SMIL_T2	25	26	1	0.8	0.84	0.04	-1.93	-1.95	0	0	0	0	0	0
10/24/2024 11:03	43105	SMIL_T2	5	10	5	0.46	0.34	-0.12	0	0	0	0	0	0	0	0
10/24/2024 11:04	64305	LINC_T1	0	1	1	0	0.2	0.2	-0.09	-0.05	0	0	0	0	0	0
10/24/2024 11:04	64801	MONE_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
10/24/2024 11:04	59302	MCAL_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
10/24/2024 11:04	64802	MONE_T2	14	5	-9	0.26	0.48	0.22	0.25	0.31	0	0	0	0	0	0
10/24/2024 11:04	59301	MCAL_T1	51	10	-41	0.28	0.65	0.37	-1.43	-1.41	1	1	0	600	600	0
10/24/2024 11:05	25402	LAHA_T2	0	0	0	0	0	0	-0.48	-0.37	0	0	0	0	0	0
10/24/2024 11:06	64802	MONE_T2	14	5	-9	0.26	0.48	0.22	0.31	0.28	0	0	0	0	0	0
10/24/2024 11:06	64801	MONE_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
10/24/2024 11:06	14801	TREI_T2	1	10	9	0.2	0.39	0.19	0.27	0.3	0	0	0	0	0	0
10/24/2024 11:06	14802	TREI_T2	0	7	7	0	0.2	0.2	0	0	0	0	0	0	0	0
10/24/2024 11:07	54602	SUMM_T2	15	16	1	0.41	0.83	0.42	0	0	0	0	0	0	0	0
10/24/2024 11:07	14801	TREI_T2	1	10	9	0.2	0.39	0.19	0	0	0	0	0	0	0	0
10/24/2024 11:07	14802	TREI_T2	0	7	7	0	0.2	0.2	0.62	0.83	0	0	0	0	0	0
10/24/2024 11:07	54601	SUMM_T2	10	11	1	0.53	0.65	0.12	-3.21	-3.21	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/24/2024 11:08	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 11:08	57401	SPAN_T1	2	2	0	0.75	1.25	0.5	0.2	0.22	0	0	0	0	0	0
10/24/2024 11:08	14801	TREI_T2	1	10	9	0.2	0.39	0.19	0	0	0	0	0	0	0	0
10/24/2024 11:08	57403	SPAN_T1	95	146	51	0.23	0.3	0.07	0	0	0	0	0	0	0	0
10/24/2024 11:08	14802	TREI_T2	0	7	7	0	0.2	0.2	0.62	0.83	0	0	0	0	0	0
10/24/2024 11:11	45902	AUBU_T1	2	4	2	0.15	0.6	0.45	-0.1	-0.15	1	1	0	600	600	0
10/24/2024 11:12	44801	EDAN_T2	2	2	0	0.65	0.8	0.15	0	0	0	0	0	0	0	0
10/24/2024 11:12	43402	BENT_T1	2	2	0	0.55	0.8	0.25	-1.46	-1.32	2	2	0	1800	1800	0
10/24/2024 11:12	44802	EDAN_T2	0	0	0	0	0	0	-2.76	-2.57	0	0	0	0	0	0
10/24/2024 11:12	45501	DERR_T2	0	0	0	0	0	0	0.84	0.71	2	2	0	1800	1800	0
10/24/2024 11:13	60901	DONG_T2	1	4	3	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/24/2024 11:13	43102	SMIL_T2	5	8	3	0.8	0.78	-0.02	-0.8	-0.81	1	1	0	600	600	0
10/24/2024 11:13	43108	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/24/2024 11:13	60904	DONG_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
10/24/2024 11:13	43105	SMIL_T2	5	10	5	0.46	0.34	-0.12	0	0	0	0	0	0	0	0
10/24/2024 11:13	60903	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/24/2024 11:13	45902	AUBU_T1	2	4	2	0.15	0.6	0.45	-0.1	-0.15	1	1	0	600	600	0
10/24/2024 11:13	43104	SMIL_T2	4	4	0	0.63	0.68	0.05	0	0	0	0	0	0	0	0
10/24/2024 11:13	43103	SMIL_T2	25	26	1	0.8	0.84	0.04	0	0	0	0	0	0	0	0
10/24/2024 11:13	45501	DERR_T2	0	0	0	0	0	0	0.84	0.71	2	2	0	1800	1800	0
10/24/2024 11:13	43101	SMIL_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
10/24/2024 11:14	44802	EDAN_T2	0	0	0	0	0	0	-1.84	-1.71	0	0	0	0	0	0
10/24/2024 11:14	57205	ROSS_T1	3	6	3	0.63	0.75	0.12	0	0	0	0	0	0	0	0
10/24/2024 11:14	57203	ROSS_T1	0	3	3	0	0.23	0.23	-0.32	-0.33	0	0	0	0	0	0
10/24/2024 11:14	44801	EDAN_T2	2	2	0	0.65	0.8	0.15	0	0	0	0	0	0	0	0
10/24/2024 11:14	57201	ROSS_T1	0	31	31	0	0.18	0.18	0	0	0	0	0	0	0	0
10/24/2024 11:16	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/24/2024 11:20	54701	NEBL_T1	8	8	0	0.96	1.03	0.07	0	0	0	0	0	0	0	0
10/24/2024 11:21	44801	EDAN_T2	2	2	0	0.65	0.8	0.15	0	0	0	0	0	0	0	0
10/24/2024 11:21	44802	EDAN_T2	0	0	0	0	0	0	-0.86	-0.83	0	0	0	0	0	0
10/24/2024 11:25	60201	ATGL_T2	2	5	3	0.45	0.36	-0.09	-0.04	-0.18	0	0	0	0	0	0
10/24/2024 11:29	48902	FOSP_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/24/2024 11:29	17805	GILB_T2	7	7	0	0.6	0.74	0.14	0.36	0.44	0	0	0	0	0	0
10/24/2024 11:29	17804	GILB_T2	13	27	14	0.68	0.32	-0.36	0	0	0	0	0	0	0	0
10/24/2024 11:29	48901	FOSP_T2	0	2	2	0	0.25	0.25	-0.07	-0.05	3	3	0	1800	1800	0
10/24/2024 11:29	17803	GILB_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/24/2024 11:30	43102	SMIL_T2	8	6	-2	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
10/24/2024 11:30	48902	FOSP_T2	0	1	1	0	0.4	0.4	0.99	0.56	0	0	0	0	0	0
10/24/2024 11:30	43104	SMIL_T2	4	4	0	0.68	0.8	0.12	0	0	0	0	0	0	0	0
10/24/2024 11:30	43101	SMIL_T2	2	4	2	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
10/24/2024 11:30	43103	SMIL_T2	24	26	2	0.77	0.88	0.11	-0.97	-0.95	0	0	0	0	0	0
10/24/2024 11:30	48901	FOSP_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/24/2024 11:30	43105	SMIL_T2	9	8	-1	0.34	0.36	0.02	0	0	0	0	0	0	0	0
10/24/2024 11:30	17802	GILB_T1	5	7	2	0.84	0.57	-0.27	0.04	0.04	0	0	0	0	0	0
10/24/2024 11:30	21206	ECAR_T2	1	1	0	8	7.7	-0.3	0	0	0	0	0	0	0	0
10/24/2024 11:30	21204	ECAR_T2	1	1	0	0	0	0	-0.73	-0.75	0	0	0	0	0	0
10/24/2024 11:30	43108	SMIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/24/2024 11:31	17804	GILB_T2	8	27	19	0.54	0.33	-0.21	-0.62	-0.62	0	0	0	0	0	0
10/24/2024 11:31	48902	FOSP_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
10/24/2024 11:31	17803	GILB_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/24/2024 11:31	17802	GILB_T1	5	7	2	0.84	0.57	-0.27	0.04	0.04	0	0	0	0	0	0
10/24/2024 11:31	48901	FOSP_T2	0	3	3	0	0.23	0.23	-0.02	-0.02	1	1	0	600	600	0
10/24/2024 11:31	17805	GILB_T2	7	6	-1	0.73	0.77	0.04	0	0	0	0	0	0	0	0
10/24/2024 11:32	57101	SPHI_T2	6	6	0	1.4	1.47	0.07	0	0	0	0	0	0	0	0
10/24/2024 11:32	43108	SMIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/24/2024 11:32	57103	SPHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/24/2024 11:32	43105	SMIL_T2	9	8	-1	0.34	0.36	0.02	0	0	0	0	0	0	0	0
10/24/2024 11:32	57104	SPHI_T2	4	7	3	3.03	1.53	-1.5	-0.12	-0.11	0	0	0	0	0	0
10/24/2024 11:32	43102	SMIL_T2	8	6	-2	0.75	0.7	-0.05	-0.81	-0.79	1	1	0	600	600	0
10/24/2024 11:32	48901	FOSP_T2	0	3	3	0	0.23	0.23	-0.02	-0.02	1	1	0	600	600	0
10/24/2024 11:32	43103	SMIL_T2	24	26	2	0.77	0.88	0.11	0	0	0	0	0	0	0	0
10/24/2024 11:32	43104	SMIL_T2	4	4	0	0.68	0.8	0.12	0	0	0	0	0	0	0	0
10/24/2024 11:32	48902	FOSP_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
10/24/2024 11:32	57106	SPHI_T2	4	4	0	1.43	1.38	-0.05	0	0	0	0	0	0	0	0
10/24/2024 11:32	43101	SMIL_T2	2	4	2	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
10/24/2024 11:33	64303	LINC_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
10/24/2024 11:33	64305	LINC_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
10/24/2024 11:34	55001	NEWP_T1	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
10/24/2024 11:34	55002	NEWP_T1	5	7	2	0.96	1.17	0.21	0	0	0	0	0	0	0	0
10/24/2024 11:35	59302	MCAL_T1	2	3	1	0.25	0.37	0.12	0	0	0	0	0	0	0	0
10/24/2024 11:35	59301	MCAL_T1	10	11	1	0.65	0.72	0.07	-1.38	-1.35	1	1	0	600	600	0
10/24/2024 11:36	66504	SMAN_T2	3	4	1	0.4	0.53	0.13	0	0	0	0	0	0	0	0
10/24/2024 11:36	67402	WAKE_T2	0	0	0	0	0	0	0.35	0.39	1	1	0	600	600	0
10/24/2024 11:36	67401	WAKE_T2	4	5	1	0.48	0.64	0.16	0	0	0	0	0	0	0	0
10/24/2024 11:36	66501	SMAN_T2	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
10/24/2024 11:36	66502	SMAN_T2	5	6	1	0.16	0.32	0.16	0.33	0.35	0	0	0	0	0	0
10/24/2024 11:37	55002	NEWP_T1	5	7	2	0.96	1.17	0.21	0	0	0	0	0	0	0	0
10/24/2024 11:37	55001	NEWP_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
10/24/2024 11:39	67401	WAKE_T2	4	5	1	0.48	0.64	0.16	0	0	0	0	0	0	0	0
10/24/2024 11:39	60101	COCA_T1	3	7	4	0.43	0.39	-0.04	0.54	0.37	0	0	0	0	0	0
10/24/2024 11:39	60102	COCA_T1	2	3	1	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
10/24/2024 11:39	67402	WAKE_T2	0	0	0	0	0	0	0.35	0.39	1	1	0	600	600	0
10/24/2024 11:39	60701	BREC_T1	0	4	4	0	0.28	0.28	-0.39	-0.74	6	6	0	3600	3600	0
10/24/2024 11:40	60101	COCA_T1	3	7	4	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
10/24/2024 11:40	60102	COCA_T1	2	3	1	0.45	0.3	-0.15	-0.17	-0.14	2	2	0	1200	1200	0
10/24/2024 11:41	60101	COCA_T1	3	7	4	0.43	0.39	-0.04	0.54	0.37	0	0	0	0	0	0
10/24/2024 11:41	60102	COCA_T1	2	3	1	0.45	0.3	-0.15	-0.17	-0.14	2	2	0	1200	1200	0
10/24/2024 11:41	60701	BREC_T1	0	4	4	0	0.28	0.28	-0.13	-0.25	2	2	0	1200	1200	0
10/24/2024 11:42	60701	BREC_T1	0	4	4	0	0.28	0.28	-0.13	-0.25	2	2	0	1200	1200	0
10/24/2024 11:43	61801	EELI_T2	2	6	4	0.25	0.37	0.12	-0.82	-0.8	1	1	0	600	600	0
10/24/2024 11:43	60701	BREC_T1	0	4	4	0	0.28	0.28	-0.13	-0.25	2	2	0	1200	1200	0
10/24/2024 11:44	60101	COCA_T1	3	7	4	0.43	0.39	-0.04	0.54	0.37	0	0	0	0	0	0
10/24/2024 11:44	60701	BREC_T1	0	4	4	0	0.28	0.28	-0.13	-0.25	2	2	0	1200	1200	0
10/24/2024 11:44	60102	COCA_T1	2	3	1	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
10/24/2024 11:47	63501	HEID_TBK1-2	5	5	0	0.28	0.3	0.02	0.68	0.65	0	0	0	0	0	0
10/24/2024 11:50	14402	SSLA_T1	7	9	2	0.41	0.52	0.11	0	0	0	0	0	0	0	0
10/24/2024 11:50	14404	SSLA_T1	8	11	3	0.5	0.41	-0.09	-0.12	0.03	0	0	0	0	0	0
10/24/2024 11:50	14401	SSLA_T1	4	7	3	0.73	0.53	-0.2	0	0	0	0	0	0	0	0
10/24/2024 11:50	67605	WARW_T1	36	43	7	0.65	0.64	-0.01	-1.15	-1.12	0	0	0	0	0	0
10/24/2024 11:50	14403	SSLA_T1	5	6	1	0.58	0.63	0.05	0	0	0	0	0	0	0	0
10/24/2024 11:50	67603	WARW_T1	3	2	-1	0.57	1	0.43	0	0	0	0	0	0	0	0
10/24/2024 11:51	67603	WARW_T1	3	2	-1	0.57	1	0.43	0	0	0	0	0	0	0	0
10/24/2024 11:51	67605	WARW_T1	36	43	7	0.65	0.64	-0.01	-2.25	-2.27	0	0	0	0	0	0
10/24/2024 11:51	15702	TANN_T2	3	3	0	0.33	0.23	-0.1	-0.46	-0.43	0	0	0	0	0	0
10/24/2024 11:51	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
10/24/2024 11:52	14402	SSLA_T1	7	9	2	0.41	0.52	0.11	0	0	0	0	0	0	0	0
10/24/2024 11:52	14401	SSLA_T1	4	7	3	0.73	0.53	-0.2	0	0	0	0	0	0	0	0
10/24/2024 11:52	14404	SSLA_T1	8	11	3	0.5	0.41	-0.09	0	0	0	0	0	0	0	0
10/24/2024 11:52	14403	SSLA_T1	5	6	1	0.58	0.63	0.05	0.56	0.51	0	0	0	0	0	0
10/24/2024 11:53	14402	SSLA_T1	7	9	2	0.41	0.52	0.11	0	0	0	0	0	0	0	0
10/24/2024 11:53	14404	SSLA_T1	8	11	3	0.5	0.41	-0.09	0	0	0	0	0	0	0	0
10/24/2024 11:53	67605	WARW_T1	36	43	7	0.65	0.64	-0.01	0	0	0	0	0	0	0	0
10/24/2024 11:53	15702	TANN_T2	3	3	0	0.33	0.23	-0.1	-0.46	-0.43	0	0	0	0	0	0
10/24/2024 11:53	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
10/24/2024 11:53	14403	SSLA_T1	5	6	1	0.58	0.63	0.05	0	0	0	0	0	0	0	0
10/24/2024 11:53	14401	SSLA_T1	4	7	3	0.73	0.53	-0.2	-0.36	-0.41	0	0	0	0	0	0
10/24/2024 11:53	67603	WARW_T1	3	2	-1	0.57	1	0.43	0	0	0	0	0	0	0	0
10/24/2024 11:54	14401	SSLA_T1	4	7	3	0.73	0.53	-0.2	0	0	0	0	0	0	0	0
10/24/2024 11:54	14402	SSLA_T1	7	9	2	0.41	0.52	0.11	0	0	0	0	0	0	0	0
10/24/2024 11:54	14403	SSLA_T1	5	6	1	0.58	0.63	0.05	0	0	0	0	0	0	0	0
10/24/2024 11:54	14404	SSLA_T1	8	11	3	0.5	0.41	-0.09	0.01	-0.04	0	0	0	0	0	0
10/24/2024 11:54	67103	SPRI_T1	1	2	1	0.1	0.2	0.1	-0.01	-0.01	0	0	0	0	0	0
10/24/2024 11:55	14801	TREI_T2	9	10	1	0.4	0.44	0.04	0	0	0	0	0	0	0	0
10/24/2024 11:55	14802	TREI_T2	4	5	1	0.3	0.28	-0.02	0.31	0.37	0	0	0	0	0	0
10/24/2024 11:57	24105	EHAZ_T1	4	4	0	6.55	6.55	0	0	0	0	0	0	0	0	0
10/24/2024 11:57	24101	EHAZ_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
10/24/2024 11:57	24102	EHAZ_T1	0	0	0	0	0	0	-0.04	-0.12	0	0	0	0	0	0
10/24/2024 11:59	48901	FOSP_T2	2	3	1	0.25	0.33	0.08	-0.05	-0.07	1	1	0	600	600	0
10/24/2024 11:59	48902	FOSP_T2	1	3	2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/24/2024 11:59	45802	HEGI_T2	1	9	8	0.5	0.3	-0.2	1.48	1.42	0	0	0	0	0	0
10/24/2024 12:00	64202	KINZ_T1	5	4	-1	0.82	0.48	-0.34	0	0	0	0	0	0	0	0
10/24/2024 12:00	64203	KINZ_T1	0	0	0	0	0	0	0.25	0.17	2	2	0	1800	1800	0
10/24/2024 12:00	64204	KINZ_T1	66	59	-7	0.62	0.5	-0.12	0	0	0	0	0	0	0	0
10/24/2024 12:01	48901	FOSP_T2	3	3	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
10/24/2024 12:01	48902	FOSP_T2	1	3	2	0.4	0.37	-0.03	0.57	0.35	0	0	0	0	0	0
10/24/2024 12:02	45802	HEGI_T2	9	6	-3	0.43	0.14	-0.29	0	0	0	0	0	0	0	0
10/24/2024 12:03	45802	HEGI_T2	9	6	-3	0.43	0.14	-0.29	1.48	1.42	0	0	0	0	0	0
10/24/2024 12:04	64101	REFR_T1	2	2	0	0.55	0.4	-0.15	-0.01	-0.01	0	0	0	0	0	0
10/24/2024 12:05	14801	TREI_T2	10	10	0	0.41	0.48	0.07	0	0	0	0	0	0	0	0
10/24/2024 12:05	64101	REFR_T1	2	2	0	0.55	0.4	-0.15	-0.01	-0.01	0	0	0	0	0	0
10/24/2024 12:05	14802	TREI_T2	5	7	2	0.28	0.23	-0.05	0.31	0.37	0	0	0	0	0	0
10/24/2024 12:07	64101	REFR_T1	2	2	0	0.55	0.4	-0.15	-0.01	-0.01	0	0	0	0	0	0
10/24/2024 12:07	67502	WEWI_T2	35	14	-21	0.26	0.37	0.11	-0.33	-0.31	0	0	0	0	0	0
10/24/2024 12:07	67503	WEWI_T2	1	1	0	9.1	9	-0.1	0	0	0	0	0	0	0	0
10/24/2024 12:08	13704	SCHN_T2	1	1	0	0.2	0.2	0	-0.29	-0.31	0	0	0	0	0	0
10/24/2024 12:08	14801	TREI_T2	10	10	0	0.41	0.48	0.07	0	0	0	0	0	0	0	0
10/24/2024 12:08	14404	SSLA_T1	9	12	3	0.43	0.48	0.05	0	0	0	0	0	0	0	0
10/24/2024 12:08	43108	SMIL_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/24/2024 12:08	14401	SSLA_T1	5	9	4	0.64	0.42	-0.22	-0.41	-0.44	0	0	0	0	0	0
10/24/2024 12:08	14802	TREI_T2	5	7	2	0.28	0.23	-0.05	0.37	0.32	0	0	0	0	0	0
10/24/2024 12:08	14403	SSLA_T1	5	5	0	0.64	0.84	0.2	0	0	0	0	0	0	0	0
10/24/2024 12:08	43103	SMIL_T2	26	30	4	0.87	0.93	0.06	0	0	0	0	0	0	0	0
10/24/2024 12:08	43104	SMIL_T2	4	4	0	0.8	0.73	-0.07	0	0	0	0	0	0	0	0
10/24/2024 12:08	43105	SMIL_T2	8	5	-3	0.33	0.46	0.13	0	0	0	0	0	0	0	0
10/24/2024 12:08	43102	SMIL_T2	6	6	0	0.68	0.7	0.02	-0.8	-0.78	1	1	0	600	600	0
10/24/2024 12:08	43101	SMIL_T2	4	3	-1	0.45	0.6	0.15	0	0	0	0	0	0	0	0
10/24/2024 12:08	14402	SSLA_T1	8	9	1	0.44	0.54	0.1	0	0	0	0	0	0	0	0
10/24/2024 12:09	67502	WEWI_T2	35	14	-21	0.26	0.37	0.11	-0.33	-0.31	0	0	0	0	0	0
10/24/2024 12:09	14802	TREI_T2	5	7	2	0.28	0.23	-0.05	0.37	0.32	0	0	0	0	0	0
10/24/2024 12:09	44302	BEAV_T2	4	8	4	0.33	0.6	0.27	0	0	0	0	0	0	0	0
10/24/2024 12:09	14801	TREI_T2	10	10	0	0.41	0.48	0.07	0	0	0	0	0	0	0	0
10/24/2024 12:09	67503	WEWI_T2	1	1	0	9.1	9	-0.1	-0.24	-0.24	0	0	0	0	0	0
10/24/2024 12:09	44301	BEAV_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/24/2024 12:10	67503	WEWI_T2	1	1	0	9.1	9	-0.1	0	0	0	0	0	0	0	0
10/24/2024 12:10	67502	WEWI_T2	35	14	-21	0.26	0.37	0.11	-0.33	-0.31	0	0	0	0	0	0
10/24/2024 12:11	44302	BEAV_T2	4	8	4	0.33	0.6	0.27	0	0	0	0	0	0	0	0
10/24/2024 12:11	16101	BING_T2	1	2	1	0.2	0.25	0.05	0.3	0.31	0	0	0	0	0	0
10/24/2024 12:11	24902	WHHA_T1	0	1	1	0	0	0	0.7	0.71	0	0	0	0	0	0
10/24/2024 12:11	16102	BING_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
10/24/2024 12:11	44301	BEAV_T2	1	1	0	0.6	0.1	-0.5	0.64	0.74	1	1	0	600	600	0
10/24/2024 12:11	24901	WHHA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/24/2024 12:12	16102	BING_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
10/24/2024 12:12	16101	BING_T2	1	2	1	0.2	0.25	0.05	0.3	0.31	0	0	0	0	0	0
10/24/2024 12:12	10801	CHHI_T1	7	9	2	0.69	0.68	-0.01	-0.7	-0.69	1	1	0	900	900	0
10/24/2024 12:12	44302	BEAV_T2	4	8	4	0.33	0.6	0.27	0.23	0.22	0	0	0	0	0	0
10/24/2024 12:12	24902	WHHA_T1	0	1	1	0	0	0	0.7	0.71	0	0	0	0	0	0
10/24/2024 12:12	24901	WHHA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/24/2024 12:12	44301	BEAV_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
10/24/2024 12:14	44302	BEAV_T2	4	8	4	0.33	0.6	0.27	0.23	0.22	0	0	0	0	0	0
10/24/2024 12:14	44301	BEAV_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
10/24/2024 12:15	17805	GILB_T2	5	7	2	0.82	0.7	-0.12	0.2	0.19	0	0	0	0	0	0
10/24/2024 12:15	17804	GILB_T2	20	8	-12	0.36	0.65	0.29	0	0	0	0	0	0	0	0
10/24/2024 12:15	17803	GILB_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/24/2024 12:21	17002	RIRO_T2	4	3	-1	0.48	0.67	0.19	0.59	0.62	0	0	0	0	0	0
10/24/2024 12:22	14403	SSLA_T1	5	5	0	0.68	0.88	0.2	0	0	0	0	0	0	0	0
10/24/2024 12:22	14402	SSLA_T1	9	13	4	0.49	0.45	-0.04	0	0	0	0	0	0	0	0
10/24/2024 12:22	14404	SSLA_T1	9	13	4	0.42	0.46	0.04	0	0	0	0	0	0	0	0
10/24/2024 12:22	14401	SSLA_T1	6	9	3	0.57	0.52	-0.05	-0.44	-0.42	0	0	0	0	0	0
10/24/2024 12:22	55101	WERT_T1	0	0	0	0	0	0	-0.5	-0.39	1	1	0	600	600	0
10/24/2024 12:24	55101	WERT_T1	0	0	0	0	0	0	-0.5	-0.39	1	1	0	600	600	0
10/24/2024 12:29	55105	WERT_T1	0	0	0	0	0	0	-0.64	-0.65	1	1	0	900	900	0
10/24/2024 12:31	64204	KINZ_T1	53	52	-1	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
10/24/2024 12:31	64202	KINZ_T1	4	4	0	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
10/24/2024 12:31	64201	KINZ_T1	0	0	0	0	0	0	-0.57	-0.51	6	6	0	3000	3000	0
10/24/2024 12:33	23201	HIRU_T2	9	7	-2	0.21	0.23	0.02	0	0	0	0	0	0	0	0
10/24/2024 12:33	20201	JERM_T1	0	0	0	0	0	0	-0.45	-0.36	2	2	0	2400	2400	0
10/24/2024 12:33	23202	HIRU_T2	4	5	1	0.2	0.18	-0.02	0.09	0.09	0	0	0	0	0	0
10/24/2024 12:33	23203	HIRU_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/24/2024 12:34	64204	KINZ_T1	53	52	-1	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
10/24/2024 12:34	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 12:34	64202	KINZ_T1	4	4	0	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
10/24/2024 12:35	23201	HIRU_T2	9	7	-2	0.21	0.23	0.02	0.12	0.14	0	0	0	0	0	0
10/24/2024 12:35	23203	HIRU_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/24/2024 12:35	23202	HIRU_T2	4	5	1	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
10/24/2024 12:36	23202	HIRU_T2	4	5	1	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
10/24/2024 12:36	23201	HIRU_T2	9	7	-2	0.21	0.23	0.02	0	0	0	0	0	0	0	0
10/24/2024 12:36	23203	HIRU_T2	1	0	-1	0.1	0	-0.1	0.16	0.16	0	0	0	0	0	0
10/24/2024 12:38	23203	HIRU_T2	1	0	-1	0.1	0	-0.1	0.16	0.16	0	0	0	0	0	0
10/24/2024 12:38	23202	HIRU_T2	4	5	1	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
10/24/2024 12:38	23201	HIRU_T2	9	7	-2	0.21	0.23	0.02	0	0	0	0	0	0	0	0
10/24/2024 12:39	14802	TREI_T2	6	9	3	0.25	0.28	0.03	0.38	0.38	0	0	0	0	0	0
10/24/2024 12:39	14801	TREI_T2	10	11	1	0.47	0.42	-0.05	0	0	0	0	0	0	0	0
10/24/2024 12:40	14802	TREI_T2	6	9	3	0.25	0.28	0.03	0.38	0.38	0	0	0	0	0	0
10/24/2024 12:40	14801	TREI_T2	10	11	1	0.47	0.42	-0.05	0	0	0	0	0	0	0	0
10/24/2024 12:41	14802	TREI_T2	6	9	3	0.25	0.28	0.03	0.38	0.38	0	0	0	0	0	0
10/24/2024 12:41	15001	BLMO_T1	6	6	0	0.5	0.57	0.07	0	0	0	0	0	0	0	0
10/24/2024 12:41	14801	TREI_T2	10	11	1	0.47	0.42	-0.05	0	0	0	0	0	0	0	0
10/24/2024 12:42	14801	TREI_T2	10	11	1	0.47	0.42	-0.05	0	0	0	0	0	0	0	0
10/24/2024 12:42	14802	TREI_T2	6	9	3	0.25	0.28	0.03	0.38	0.38	0	0	0	0	0	0
10/24/2024 12:54	54601	SUMM_T2	8	10	2	0.49	0.45	-0.04	0	0	0	0	0	0	0	0
10/24/2024 12:54	54603	SUMM_T2	0	0	0	0	0	0	-0.21	-0.26	1	1	0	900	900	0
10/24/2024 12:54	54602	SUMM_T2	11	16	5	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
10/24/2024 12:55	20401	ASHF_T2	10	7	-3	0.28	0.34	0.06	-0.3	-0.25	0	0	0	0	0	0
10/24/2024 12:55	20402	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/24/2024 12:55	20403	ASHF_T2	14	8	-6	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
10/24/2024 13:01	43105	SMIL_T2	2	4	2	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
10/24/2024 13:01	43104	SMIL_T2	4	4	0	0.43	0.63	0.2	0	0	0	0	0	0	0	0
10/24/2024 13:01	43108	SMIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/24/2024 13:01	14204	EALL_T2	0	0	0	0	0	0	0.48	0.55	0	0	0	0	0	0
10/24/2024 13:01	43101	SMIL_T2	3	3	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/24/2024 13:01	43102	SMIL_T2	6	7	1	0.53	0.74	0.21	-0.79	-0.74	1	1	0	600	600	0
10/24/2024 13:01	43103	SMIL_T2	22	30	8	0.89	0.85	-0.04	0	0	0	0	0	0	0	0
10/24/2024 13:02	20603	GRWO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/24/2024 13:02	20601	GRWO_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
10/24/2024 13:05	65503	MOJO_T2	2	3	1	0.1	0.4	0.3	-1.05	-1.03	1	1	0	900	900	0
10/24/2024 13:06	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 13:06	65503	MOJO_T2	2	3	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
10/24/2024 13:12	46004	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/24/2024 13:12	46002	BERW_T2	0	0	0	0	0	0	-0.59	-0.72	1	1	0	900	900	0
10/24/2024 13:14	44801	EDAN_T2	2	3	1	0.6	0.55	-0.05	-0.38	-0.48	0	0	0	0	0	0
10/24/2024 13:23	67402	WAKE_T2	0	0	0	0	0	0	0.38	0.35	1	1	0	600	600	0
10/24/2024 13:23	67401	WAKE_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/24/2024 13:29	59202	THOM_T1	81	44	-37	0.32	0.34	0.02	0	0	0	0	0	0	0	0
10/24/2024 13:29	59201	THOM_T1	15	5	-10	0.27	0.4	0.13	0	0	0	0	0	0	0	0
10/24/2024 13:31	17803	GILB_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
10/24/2024 13:31	17805	GILB_T2	5	5	0	0.66	0.48	-0.18	0.27	0.25	0	0	0	0	0	0
10/24/2024 13:31	17804	GILB_T2	6	4	-2	0.37	0.43	0.06	0	0	0	0	0	0	0	0
10/24/2024 13:33	54502	ENOL_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
10/24/2024 13:33	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
10/24/2024 13:33	54504	ENOL_T2	0	0	0	0	0	0	-1.13	-1.13	1	1	0	600	600	0
10/24/2024 13:33	54501	ENOL_T2	4	4	0	0.48	0.5	0.02	0	0	0	0	0	0	0	0
10/24/2024 13:34	64101	REFR_T1	3	3	0	0.67	0.8	0.13	-0.01	-0.01	0	0	0	0	0	0
10/24/2024 13:38	64101	REFR_T1	3	3	0	0.67	0.8	0.13	-0.01	-0.01	0	0	0	0	0	0
10/24/2024 13:40	16101	BING_T2	2	1	-1	0.6	0.9	0.3	0.31	0.3	0	0	0	0	0	0
10/24/2024 13:40	16103	BING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/24/2024 13:40	16102	BING_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/24/2024 13:44	24202	PROV_T4	0	1	1	0	0	0	0	0	1	1	0	1200	1200	0
10/24/2024 13:49	64101	REFR_T1	3	7	4	0.8	0.53	-0.27	-0.01	-0.01	0	0	0	0	0	0
10/24/2024 13:50	64101	REFR_T1	3	7	4	0.8	0.53	-0.27	-0.01	-0.01	0	0	0	0	0	0
10/24/2024 13:56	16101	BING_T2	1	1	0	0.9	0.4	-0.5	0.3	0.3	0	0	0	0	0	0
10/24/2024 13:56	16102	BING_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/24/2024 13:56	16103	BING_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/24/2024 13:58	44502	HAMI_T2	1	1	0	3	3.3	0.3	0	0	0	0	0	0	0	0
10/24/2024 13:58	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 13:59	44501	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/24/2024 13:59	44505	HAMI_T2	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
10/24/2024 13:59	44502	HAMI_T2	1	1	0	3	3.3	0.3	0	0	0	0	0	0	0	0
10/24/2024 13:59	23202	HIRU_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/24/2024 13:59	47202	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 13:59	45502	DERR_T2	0	0	0	0	0	0	0.21	0.32	0	0	0	0	0	0
10/24/2024 13:59	23203	HIRU_T2	1	1	0	0.2	0.1	-0.1	0.08	0.16	0	0	0	0	0	0
10/24/2024 13:59	20603	GRWO_T2	1	2	1	0.1	0.25	0.15	0.45	0.4	0	0	0	0	0	0
10/24/2024 13:59	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/24/2024 13:59	23201	HIRU_T2	3	3	0	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
10/24/2024 14:00	54202	PENN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/24/2024 14:00	54206	PENN_T2	0	0	0	0	0	0	0.13	0.2	0	0	0	0	0	0
10/24/2024 14:04	64305	LINC_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
10/24/2024 14:05	67402	WAKE_T2	0	0	0	0	0	0	0.39	0.38	1	1	0	600	600	0
10/24/2024 14:05	67401	WAKE_T2	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
10/24/2024 14:14	63501	HEID_TBK1-2	2	2	0	0.45	0.85	0.4	0.68	0.64	0	0	0	0	0	0
10/24/2024 14:18	64802	MONE_T2	24	81	57	0.36	0.21	-0.15	0	0	0	0	0	0	0	0
10/24/2024 14:18	64801	MONE_T2	4	14	10	0.2	0.16	-0.04	0.27	0.26	0	0	0	0	0	0
10/24/2024 14:20	43104	SMIL_T2	3	3	0	0.53	0.57	0.04	0	0	0	0	0	0	0	0
10/24/2024 14:20	43103	SMIL_T2	25	22	-3	0.87	0.62	-0.25	0	0	0	0	0	0	0	0
10/24/2024 14:20	43102	SMIL_T2	7	6	-1	0.79	0.92	0.13	-0.78	-0.79	1	1	0	600	600	0
10/24/2024 14:20	43105	SMIL_T2	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
10/24/2024 14:20	64904	MILL_T1	0	0	0	0	0	0	0.51	0.54	0	0	0	0	0	0
10/24/2024 14:20	43101	SMIL_T2	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
10/24/2024 14:31	48902	FOSP_T2	2	16	14	0.45	0.26	-0.19	0	0	0	0	0	0	0	0
10/24/2024 14:31	48901	FOSP_T2	2	8	6	0.4	0.29	-0.11	-0.11	0.54	1	0	-1	600	0	-600
10/24/2024 14:34	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.14	1	1	0	600	600	0
10/24/2024 14:35	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.14	1	1	0	600	600	0
10/24/2024 14:39	44302	BEAV_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
10/24/2024 14:39	44301	BEAV_T2	1	8	7	0.1	0.21	0.11	0.39	0.41	1	1	0	600	600	0
10/24/2024 14:42	44302	BEAV_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
10/24/2024 14:42	44301	BEAV_T2	1	8	7	0.1	0.21	0.11	0.39	0.41	1	1	0	600	600	0
10/24/2024 14:45	20603	GRWO_T2	0	2	2	0	0.2	0.2	0.38	0.38	0	0	0	0	0	0
10/24/2024 14:51	65205	PRIN_T1	1	2	1	1.2	1.3	0.1	0	0	0	0	0	0	0	0
10/24/2024 14:51	42201	SHEN_T2	6	5	-1	2.48	0.64	-1.84	0.44	0.47	0	0	0	0	0	0
10/24/2024 14:51	65202	PRIN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/24/2024 14:52	55002	NEWP_T1	6	5	-1	0.98	1.28	0.3	0	0	0	0	0	0	0	0
10/24/2024 14:52	55001	NEWP_T1	2	1	-1	0.5	0.5	0	-0.18	-0.19	0	0	0	0	0	0
10/24/2024 14:53	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 14:53	65207	PRIN_T4	25	28	3	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
10/24/2024 14:53	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 14:54	60101	COCA_T1	7	8	1	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
10/24/2024 14:54	60102	COCA_T1	4	71	67	0.13	0.16	0.03	0	0	0	0	0	0	0	0
10/24/2024 14:54	55002	NEWP_T1	6	5	-1	0.98	1.28	0.3	-0.24	-0.23	0	0	0	0	0	0
10/24/2024 14:54	55001	NEWP_T1	2	1	-1	0.5	0.5	0	0	0	0	0	0	0	0	0
10/24/2024 14:55	54602	SUMM_T2	17	16	-1	0.59	0.64	0.05	0	0	0	0	0	0	0	0
10/24/2024 14:55	54601	SUMM_T2	11	11	0	0.36	0.41	0.05	-3.18	-3.14	1	1	0	1200	1200	0
10/24/2024 14:58	63804	HEMP_T1	1	3	2	5.7	5.7	0	1.02	1.03	0	0	0	0	0	0
10/24/2024 14:58	63803	HEMP_T1	2	1	-1	0.55	0.7	0.15	0	0	0	0	0	0	0	0
10/24/2024 14:58	63801	HEMP_T1	2	3	1	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
10/24/2024 14:59	61001	DONV_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
10/24/2024 15:00	63804	HEMP_T1	1	3	2	5.7	5.7	0	0	0	0	0	0	0	0	0
10/24/2024 15:00	63802	HEMP_T1	0	0	0	0	0	0	0.22	-0.43	0	0	0	0	0	0
10/24/2024 15:00	63803	HEMP_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
10/24/2024 15:00	63801	HEMP_T1	2	2	0	0.7	0.5	-0.2	0.87	0.25	0	0	0	0	0	0
10/24/2024 15:00	60102	COCA_T1	70	36	-34	0.16	0.12	-0.04	-0.98	-0.97	2	2	0	1200	1200	0
10/24/2024 15:00	60101	COCA_T1	8	6	-2	0.41	0.27	-0.14	0	0	0	0	0	0	0	0
10/24/2024 15:02	40603	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 15:02	40602	PIGR_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/24/2024 15:02	40601	PIGR_T1	92	120	28	0.28	0.32	0.04	0	0	0	0	0	0	0	0
10/24/2024 15:03	60102	COCA_T1	70	36	-34	0.16	0.12	-0.04	0	0	0	0	0	0	0	0
10/24/2024 15:03	60101	COCA_T1	8	6	-2	0.41	0.27	-0.14	0.4	0.42	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/24/2024 15:12	20403	ASHF_T2	8	21	13	0.41	0.35	-0.06	1.46	0.88	0	0	0	0	0	0
10/24/2024 15:12	20401	ASHF_T2	6	10	4	0.23	0.35	0.12	0	0	0	0	0	0	0	0
10/24/2024 15:20	65802	RTWN_T2	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
10/24/2024 15:21	65207	PRIN_T4	15	11	-4	0.15	0.19	0.04	0	0	2	2	0	1800	1800	0
10/24/2024 15:21	24102	EHAZ_T1	2	0	-2	0.4	0	-0.4	1.19	1.21	0	0	0	0	0	0
10/24/2024 15:21	40101	HUNT_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/24/2024 15:21	24105	EHAZ_T1	4	4	0	5.98	6	0.02	0	0	0	0	0	0	0	0
10/24/2024 15:21	65206	PRIN_T4	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/24/2024 15:24	59202	THOM_T1	444	725	281	0.33	0.73	0.4	0	0	0	0	0	0	0	0
10/24/2024 15:24	59201	THOM_T1	27	98	71	0.32	0.55	0.23	0	0	0	0	0	0	0	0
10/24/2024 15:27	17902	BART_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
10/24/2024 15:29	46002	BERW_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/24/2024 15:29	46004	BERW_T2	1	1	0	0.3	0.3	0	-0.35	-0.38	0	0	0	0	0	0
10/24/2024 15:29	23401	HONE_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
10/24/2024 15:36	44702	MUNC_T2	15	76	61	0.14	0.21	0.07	0	0	0	0	0	0	0	0
10/24/2024 15:36	44701	MUNC_T2	2	7	5	0.4	0.16	-0.24	0	0	0	0	0	0	0	0
10/24/2024 15:36	44703	MUNC_T2	2	2	0	1.3	1.35	0.05	0	0	0	0	0	0	0	0
10/24/2024 15:50	62602	ENGL_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
10/24/2024 15:50	62605	ENGL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/24/2024 15:51	62605	ENGL_T1	1	1	0	0.2	0.1	-0.1	-0.73	-0.78	0	0	0	0	0	0
10/24/2024 15:52	62605	ENGL_T1	1	1	0	0.2	0.1	-0.1	-0.73	-0.78	0	0	0	0	0	0
10/24/2024 15:52	15703	TANN_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
10/24/2024 15:52	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
10/24/2024 15:53	62605	ENGL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/24/2024 15:53	62606	ENGL_T1	0	0	0	0	0	0	-0.93	-0.9	1	1	0	900	900	0
10/24/2024 15:55	46001	BERW_T1	0	0	0	0	0	0	0.89	0.84	0	0	0	0	0	0
10/24/2024 16:02	42002	MNVL_T2	1	1	0	5.6	4.7	-0.9	0	0	0	0	0	0	0	0
10/24/2024 16:02	42001	MNVL_T2	253	262	9	0.97	1.11	0.14	-0.32	-0.39	0	0	0	0	0	0
10/24/2024 16:03	46101	MACI_T2	0	0	0	0	0	0	-0.1	-0.1	1	1	0	1200	1200	0
10/24/2024 16:06	54601	SUMM_T2	10	10	0	0.51	0.44	-0.07	-3.22	-3.2	1	1	0	1200	1200	0
10/24/2024 16:06	54602	SUMM_T2	16	16	0	0.68	0.49	-0.19	0	0	0	0	0	0	0	0
10/24/2024 16:07	42201	SHEN_T2	4	5	1	0.4	0.36	-0.04	0.44	0.46	0	0	0	0	0	0
10/24/2024 16:19	64704	LITI_T1	0	0	0	0	0	0	0.35	0.5	1	1	0	600	600	0
10/24/2024 16:22	50504	MECH_T1	2	10	8	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/24/2024 16:22	50503	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/24/2024 16:22	50502	MECH_T1	2	1	-1	5.6	2.6	-3	0	0	0	0	0	0	0	0
10/24/2024 16:22	50506	MECH_T1	2	1	-1	0.1	0.1	0	-0.03	-0.01	0	0	0	0	0	0
10/24/2024 16:22	50501	MECH_T1	4	4	0	1	1.23	0.23	0	0	0	0	0	0	0	0
10/24/2024 16:22	50505	MECH_T1	1	6	5	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/24/2024 16:23	50505	MECH_T1	1	6	5	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/24/2024 16:23	50506	MECH_T1	2	1	-1	0.1	0.1	0	-0.03	-0.01	0	0	0	0	0	0
10/24/2024 16:23	50502	MECH_T1	2	1	-1	5.6	2.6	-3	0	0	0	0	0	0	0	0
10/24/2024 16:23	50503	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/24/2024 16:23	50504	MECH_T1	2	10	8	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/24/2024 16:23	50501	MECH_T1	4	4	0	1	1.23	0.23	0	0	0	0	0	0	0	0
10/24/2024 16:24	42201	SHEN_T2	5	4	-1	0.36	0.45	0.09	0	0	0	0	0	0	0	0
10/24/2024 16:27	50502	MECH_T1	2	1	-1	5.6	2.6	-3	0	0	0	0	0	0	0	0
10/24/2024 16:27	50501	MECH_T1	4	4	0	1	1.23	0.23	0	0	0	0	0	0	0	0
10/24/2024 16:27	50504	MECH_T1	2	10	8	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/24/2024 16:27	50506	MECH_T1	2	1	-1	0.1	0.1	0	-0.07	-0.02	0	0	0	0	0	0
10/24/2024 16:27	50505	MECH_T1	1	6	5	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/24/2024 16:27	50503	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/24/2024 16:37	50506	MECH_T1	1	0	-1	0.1	0	-0.1	-0.01	-0.07	0	0	0	0	0	0
10/24/2024 16:37	50504	MECH_T1	9	5	-4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/24/2024 16:37	50502	MECH_T1	1	1	0	2.5	2.6	0.1	0	0	0	0	0	0	0	0
10/24/2024 16:37	50505	MECH_T1	6	0	-6	0.12	0	-0.12	0	0	0	0	0	0	0	0
10/24/2024 16:37	50501	MECH_T1	4	4	0	1.13	1.35	0.22	0	0	0	0	0	0	0	0
10/24/2024 16:38	50506	MECH_T1	1	0	-1	0.1	0	-0.1	-0.02	-0.21	0	0	0	0	0	0
10/24/2024 16:38	50501	MECH_T1	4	4	0	1.13	1.35	0.22	0	0	0	0	0	0	0	0
10/24/2024 16:38	50505	MECH_T1	6	0	-6	0.12	0	-0.12	0	0	0	0	0	0	0	0
10/24/2024 16:38	50504	MECH_T1	9	5	-4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/24/2024 16:38	50502	MECH_T1	1	1	0	2.5	2.6	0.1	0	0	0	0	0	0	0	0
10/24/2024 16:39	49803	UNIV_T1	2	1	-1	2.3	4.4	2.1	0	0	0	0	0	0	0	0
10/24/2024 16:39	49804	UNIV_T1	1	2	1	0.1	0.45	0.35	0.58	0.62	0	0	0	0	0	0
10/24/2024 16:39	66903	SHIL_T2	0	0	0	0	0	0	-1.82	-1.78	0	0	0	0	0	0
10/24/2024 16:40	50505	MECH_T1	6	0	-6	0.12	0	-0.12	0	0	0	0	0	0	0	0
10/24/2024 16:40	50501	MECH_T1	4	4	0	1.13	1.35	0.22	0	0	0	0	0	0	0	0
10/24/2024 16:40	50504	MECH_T1	9	5	-4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/24/2024 16:40	50506	MECH_T1	1	0	-1	0.1	0	-0.1	-0.01	-0.07	0	0	0	0	0	0
10/24/2024 16:40	50502	MECH_T1	1	1	0	2.5	2.6	0.1	0	0	0	0	0	0	0	0
10/24/2024 16:49	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 16:52	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 16:54	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 16:59	50623	CCTY_T2	5	5	0	5.88	5.54	-0.34	0	0	0	0	0	0	0	0
10/24/2024 16:59	50624	CCTY_T2	2	2	0	6.35	5.95	-0.4	0	0	0	0	0	0	0	0
10/24/2024 16:59	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 16:59	50625	CCTY_T2	3	5	2	4.47	2.76	-1.71	0	0	0	0	0	0	0	0
10/24/2024 17:10	42201	SHEN_T2	4	4	0	0.5	0.5	0	0.39	0.39	0	0	0	0	0	0
10/24/2024 17:12	10903	COOP_T2	99	112	13	0.36	0.44	0.08	0	0	0	0	0	0	0	0
10/24/2024 17:17	24201	PROV_T3	5	1	-4	1.52	7.4	5.88	0	0	0	0	0	0	0	0
10/24/2024 17:17	24204	PROV_T3	39	4	-35	0.28	1.43	1.15	0	0	0	0	0	0	0	0
10/24/2024 17:17	24205	PROV_T3	16	0	-16	0.23	0	-0.23	0	0	0	0	0	0	0	0
10/24/2024 17:41	42504	ALTA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/24/2024 17:41	42501	ALTA_T2	0	1	1	0	0	0	-0.11	-0.09	1	1	0	600	600	0
10/24/2024 19:07	24801	VALM_T1	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
10/24/2024 19:12	24801	VALM_T1	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
10/24/2024 20:05	67605	WARW_T1	2	13	11	0.1	0.32	0.22	0	0	0	0	0	0	0	0
10/24/2024 20:05	67604	WARW_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
10/24/2024 20:06	14403	SSLA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/24/2024 20:06	14404	SSLA_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
10/24/2024 20:06	14401	SSLA_T1	4	6	2	0.15	0.25	0.1	-0.58	-0.58	0	0	0	0	0	0
10/24/2024 20:06	14402	SSLA_T1	10	60	50	0.12	0.15	0.03	0	0	0	0	0	0	0	0
10/24/2024 20:08	60701	BREC_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
10/24/2024 20:09	54501	ENOL_T2	4	4	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
10/24/2024 20:09	54505	ENOL_T2	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
10/24/2024 20:09	54503	ENOL_T2	0	0	0	0	0	0	-0.43	-0.45	1	1	0	600	600	0
10/24/2024 20:09	54502	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
10/24/2024 20:10	24902	WHHA_T1	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
10/24/2024 20:10	20601	GRWO_T2	0	7	7	0	0.17	0.17	0	0	0	0	0	0	0	0
10/24/2024 20:10	17902	BART_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
10/24/2024 20:10	20603	GRWO_T2	11	25	14	0.22	0.24	0.02	0.32	0.32	0	0	0	0	0	0
10/24/2024 20:12	14802	TREI_T2	7	10	3	0.16	0.23	0.07	0.35	0.32	0	0	0	0	0	0
10/24/2024 20:12	48902	FOSP_T2	62	84	22	0.31	0.36	0.05	0	0	0	0	0	0	0	0
10/24/2024 20:12	14801	TREI_T2	1	18	17	0.4	0.11	-0.29	0	0	0	0	0	0	0	0
10/24/2024 20:12	48901	FOSP_T2	21	26	5	0.27	0.3	0.03	0.26	0.24	0	0	0	0	0	0
10/24/2024 20:13	46001	BERW_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
10/24/2024 20:13	45902	AUBU_T1	0	0	0	0	0	0	0.08	0.08	1	1	0	600	600	0
10/24/2024 20:14	63501	HEID_TBK1-2	1	32	31	1.5	0.22	-1.28	0.4	0.34	0	0	0	0	0	0
10/24/2024 20:14	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/24/2024 20:14	67503	WEWI_T2	1	1	0	8.2	8.6	0.4	-0.33	-0.33	0	0	0	0	0	0
10/24/2024 20:14	23203	HIRU_T2	0	0	0	0	0	0	0.16	0	0	0	0	0	0	0
10/24/2024 20:14	14801	TREI_T2	1	18	17	0.4	0.11	-0.29	0	0	0	0	0	0	0	0
10/24/2024 20:14	14802	TREI_T2	7	10	3	0.16	0.23	0.07	0.35	0.32	0	0	0	0	0	0
10/24/2024 20:14	43105	SMIL_T2	9	17	8	0.13	0.34	0.21	0	0	0	0	0	0	0	0
10/24/2024 20:14	67502	WEWI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:14	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:14	42002	MNVL_T2	1	1	0	3.7	3.8	0.1	0	0	0	0	0	0	0	0
10/24/2024 20:14	43102	SMIL_T2	6	6	0	0.43	0.67	0.24	0	0	0	0	0	0	0	0
10/24/2024 20:14	17802	GILB_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
10/24/2024 20:14	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.35	0	0	0	0	0	0
10/24/2024 20:14	42001	MNVL_T2	218	243	25	0.55	0.71	0.16	-0.36	-0.36	0	0	0	0	0	0
10/24/2024 20:14	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:14	43103	SMIL_T2	19	22	3	0.54	0.63	0.09	-1.01	-1.03	0	0	0	0	0	0
10/24/2024 20:14	67605	WARW_T1	2	13	11	0.1	0.32	0.22	0	0	0	0	0	0	0	0
10/24/2024 20:14	67603	WARW_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
10/24/2024 20:14	60101	COCA_T1	0	0	0	0	0	0	0.26	0.19	0	0	0	0	0	0
10/24/2024 20:14	43108	SMIL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/24/2024 20:15	14801	TREI_T2	17	3	-14	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
10/24/2024 20:15	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:15	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:15	15702	TANN_T2	31	16	-15	0.15	0.11	-0.04	-0.45	-0.44	0	0	0	0	0	0
10/24/2024 20:15	67503	WEWI_T2	1	1	0	8.4	8.7	0.3	0	0	0	0	0	0	0	0
10/24/2024 20:15	14802	TREI_T2	10	6	-4	0.23	0.17	-0.06	0.35	0.32	0	0	0	0	0	0
10/24/2024 20:15	24201	PROV_T3	1	1	0	7	7.2	0.2	0	0	0	0	0	0	0	0
10/24/2024 20:15	24204	PROV_T3	2	3	1	2.8	1.87	-0.93	0	0	0	0	0	0	0	0
10/24/2024 20:15	67502	WEWI_T2	0	59	59	0	0.15	0.15	-0.51	-0.49	0	0	0	0	0	0
10/24/2024 20:15	64802	MONE_T2	5	1	-4	0.1	0.1	0	0	0	0	0	0	0	0	0
10/24/2024 20:15	64801	MONE_T2	0	3	3	0	0.1	0.1	0.24	0.22	0	0	0	0	0	0
10/24/2024 20:15	15703	TANN_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
10/24/2024 20:15	43801	SWIL_T1	56	50	-6	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
10/24/2024 20:16	20201	JERM_T1	0	0	0	0	0	0	-0.53	-0.53	2	2	0	2400	2400	0
10/24/2024 20:17	14802	TREI_T2	10	6	-4	0.23	0.17	-0.06	0.35	0.32	0	0	0	0	0	0
10/24/2024 20:17	60701	BREC_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
10/24/2024 20:17	43103	SMIL_T2	18	22	4	0.52	0.63	0.11	0	0	0	0	0	0	0	0
10/24/2024 20:17	14801	TREI_T2	17	3	-14	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
10/24/2024 20:17	43108	SMIL_T2	3	3	0	0.13	0.17	0.04	0	0	0	0	0	0	0	0
10/24/2024 20:17	43105	SMIL_T2	16	17	1	0.3	0.32	0.02	0	0	0	0	0	0	0	0
10/24/2024 20:17	64305	LINC_T1	1	1	0	0.1	0.1	0	-0.5	-0.55	0	0	0	0	0	0
10/24/2024 20:17	43102	SMIL_T2	6	6	0	0.62	0.72	0.1	0	0	0	0	0	0	0	0
10/24/2024 20:18	54603	SUMM_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
10/24/2024 20:18	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/24/2024 20:18	54601	SUMM_T2	12	12	0	1	0.98	-0.02	-3.36	-3.35	1	1	0	1200	1200	0
10/24/2024 20:18	15001	BLMO_T1	3	3	0	0.1	0.23	0.13	0	0	0	0	0	0	0	0
10/24/2024 20:18	53501	EVIL_T2	1	2	1	0.7	0.4	-0.3	-0.32	-0.32	0	0	0	0	0	0
10/24/2024 20:18	65207	PRIN_T4	57	104	47	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
10/24/2024 20:18	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:18	54602	SUMM_T2	12	12	0	0.82	0.8	-0.02	0	0	0	0	0	0	0	0
10/24/2024 20:18	55002	NEWP_T1	4	5	1	0.28	0.5	0.22	-0.27	-0.28	0	0	0	0	0	0
10/24/2024 20:18	44802	EDAN_T2	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
10/24/2024 20:18	65206	PRIN_T4	20	24	4	0.12	0.12	0	0	0	0	0	0	0	0	0
10/24/2024 20:19	63602	LETO_T1	0	0	0	0	0	0	-0.58	-0.52	0	0	0	0	0	0
10/24/2024 20:19	65202	PRIN_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
10/24/2024 20:19	24902	WHHA_T1	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/24/2024 20:19	60102	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:19	66903	SHIL_T2	0	0	0	0	0	0	-1.04	-1.07	0	0	0	0	0	0
10/24/2024 20:19	67605	WARW_T1	11	12	1	0.27	0.34	0.07	-1.12	-1.1	0	0	0	0	0	0
10/24/2024 20:19	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:19	65205	PRIN_T1	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
10/24/2024 20:19	45502	DERR_T2	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
10/24/2024 20:19	17804	GILB_T2	18	0	-18	0.14	0	-0.14	-0.58	-0.59	0	0	0	0	0	0
10/24/2024 20:19	59202	THOM_T1	631	665	34	0.81	0.9	0.09	0	0	0	0	0	0	0	0
10/24/2024 20:19	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:19	65203	PRIN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/24/2024 20:19	59201	THOM_T1	107	117	10	0.6	0.66	0.06	0	0	0	0	0	0	0	0
10/24/2024 20:19	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:19	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:19	17805	GILB_T2	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
10/24/2024 20:19	62605	ENGL_T1	0	0	0	0	0	0	-0.81	-0.86	0	0	0	0	0	0
10/24/2024 20:19	66505	SMAN_T2	3	3	0	1	1.27	0.27	0	0	0	0	0	0	0	0
10/24/2024 20:19	24803	VALM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/24/2024 20:19	45501	DERR_T2	0	0	0	0	0	0	0.51	0.54	2	2	0	1800	1800	0
10/24/2024 20:20	66505	SMAN_T2	3	3	0	1	1.27	0.27	0	0	0	0	0	0	0	0
10/24/2024 20:20	62606	ENGL_T1	0	0	0	0	0	0	-1	-0.93	1	1	0	900	900	0
10/24/2024 20:20	53501	EVIL_T2	1	2	1	0.7	0.4	-0.3	-0.32	-0.32	0	0	0	0	0	0
10/24/2024 20:20	14801	TREI_T2	17	3	-14	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
10/24/2024 20:20	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:20	59201	THOM_T1	107	117	10	0.6	0.66	0.06	0	0	0	0	0	0	0	0
10/24/2024 20:20	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:20	57201	ROSS_T1	121	47	-74	0.24	0.2	-0.04	-0.55	-0.57	0	0	0	0	0	0
10/24/2024 20:20	57203	ROSS_T1	212	0	-212	0.14	0	-0.14	-0.33	0.32	0	0	0	0	0	0
10/24/2024 20:20	54505	ENOL_T2	1	1	0	1.3	1.5	0.2	-1.38	-1.41	1	1	0	600	600	0
10/24/2024 20:20	59302	MCAL_T1	2	2	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
10/24/2024 20:20	14802	TREI_T2	10	6	-4	0.23	0.17	-0.06	0.35	0.32	0	0	0	0	0	0
10/24/2024 20:20	59301	MCAL_T1	75	85	10	0.44	0.6	0.16	-1.31	-1.32	0	0	0	0	0	0
10/24/2024 20:20	54502	ENOL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
10/24/2024 20:20	54501	ENOL_T2	4	4	0	0.55	0.78	0.23	0	0	0	0	0	0	0	0
10/24/2024 20:20	57402	SPAN_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
10/24/2024 20:20	67103	SPRI_T1	0	0	0	0	0	0	-0.06	-0.14	0	0	0	0	0	0
10/24/2024 20:20	60101	COCA_T1	0	0	0	0	0	0	0.26	0.19	0	0	0	0	0	0
10/24/2024 20:20	59202	THOM_T1	631	665	34	0.81	0.9	0.09	0	0	0	0	0	0	0	0
10/24/2024 20:21	48901	FOSP_T2	25	29	4	0.27	0.31	0.04	0	0	0	0	0	0	0	0
10/24/2024 20:21	48902	FOSP_T2	83	87	4	0.34	0.34	0	0	0	0	0	0	0	0	0
10/24/2024 20:21	64204	KINZ_T1	19	1	-18	0.23	1.1	0.87	0	0	0	0	0	0	0	0
10/24/2024 20:21	64202	KINZ_T1	5	2	-3	0.22	0.3	0.08	0	0	0	0	0	0	0	0
10/24/2024 20:21	64201	KINZ_T1	7	1	-6	0.41	0.8	0.39	0	0	0	0	0	0	0	0
10/24/2024 20:21	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:21	44502	HAMI_T2	1	2	1	4	3.9	-0.1	0	0	0	0	0	0	0	0
10/24/2024 20:22	66504	SMAN_T2	0	0	0	0	0	0	-0.59	-0.52	0	0	0	0	0	0
10/24/2024 20:22	45802	HEGI_T2	15	2	-13	0.34	0.15	-0.19	0	0	0	0	0	0	0	0
10/24/2024 20:22	66505	SMAN_T2	3	3	0	1	1.27	0.27	0	0	0	0	0	0	0	0
10/24/2024 20:23	50505	MECH_T1	99	205	106	0.15	0.17	0.02	0	0	0	0	0	0	0	0
10/24/2024 20:23	50502	MECH_T1	1	1	0	3	3.2	0.2	0	0	0	0	0	0	0	0
10/24/2024 20:23	46803	HEPB_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
10/24/2024 20:23	65503	MOJO_T2	4	6	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/24/2024 20:23	50506	MECH_T1	184	399	215	0.15	0.22	0.07	-0.59	-0.56	0	0	0	0	0	0
10/24/2024 20:23	50501	MECH_T1	11	74	63	0.84	0.29	-0.55	0	0	0	0	0	0	0	0
10/24/2024 20:23	65502	MOJO_T2	64	124	60	0.11	0.11	0	0	0	0	0	0	0	0	0
10/24/2024 20:23	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.9	1	1	0	900	900	0
10/24/2024 20:23	50504	MECH_T1	238	435	197	0.2	0.31	0.11	0	0	0	0	0	0	0	0
10/24/2024 20:23	67106	SPRI_T2	0	0	0	0	0	0	-1.21	-1.2	1	1	0	900	900	0
10/24/2024 20:23	60701	BREC_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
10/24/2024 20:23	55003	NEWP_T2	4	6	2	0.15	0.33	0.18	-0.87	-0.83	1	1	0	600	600	0
10/24/2024 20:23	46801	HEPB_T2	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0	0
10/24/2024 20:23	63501	HEID_TBK1-2	4	35	31	0.55	0.19	-0.36	0.34	0.39	0	0	0	0	0	0
10/24/2024 20:23	50503	MECH_T1	78	145	67	0.17	0.28	0.11	0	0	0	0	0	0	0	0
10/24/2024 20:23	62602	ENGL_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
10/24/2024 20:24	66903	SHIL_T2	0	0	0	0	0	0	-1.07	-1.07	0	0	0	0	0	0
10/24/2024 20:24	50501	MECH_T1	11	74	63	0.84	0.29	-0.55	0	0	0	0	0	0	0	0
10/24/2024 20:24	50624	CCTY_T2	2	2	0	5.8	5.65	-0.15	0	0	0	0	0	0	0	0
10/24/2024 20:24	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/24/2024 20:24	50623	CCTY_T2	5	5	0	5.88	5.52	-0.36	0	0	0	0	0	0	0	0
10/24/2024 20:24	50502	MECH_T1	1	1	0	3	3.2	0.2	0	0	0	0	0	0	0	0
10/24/2024 20:24	50503	MECH_T1	78	145	67	0.17	0.28	0.11	0	0	0	0	0	0	0	0
10/24/2024 20:24	44505	HAMI_T2	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
10/24/2024 20:24	50625	CCTY_T2	5	5	0	2.62	2.66	0.04	0	0	0	0	0	0	0	0
10/24/2024 20:24	54001	SDLE_T1	47	73	26	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
10/24/2024 20:24	50505	MECH_T1	99	205	106	0.15	0.17	0.02	0	0	0	0	0	0	0	0
10/24/2024 20:24	40602	PIGR_T1	6	1	-5	0.17	0.2	0.03	0	0	0	0	0	0	0	0
10/24/2024 20:24	42201	SHEN_T2	3	3	0	0.33	0.23	-0.1	0.35	0.34	0	0	0	0	0	0
10/24/2024 20:24	44502	HAMI_T2	1	2	1	4	3.9	-0.1	0	0	0	0	0	0	0	0
10/24/2024 20:24	62605	ENGL_T1	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
10/24/2024 20:24	40601	PIGR_T1	202	181	-21	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
10/24/2024 20:24	57403	SPAN_T1	0	0	0	0	0	0	0.03	-0.03	0	0	0	0	0	0
10/24/2024 20:24	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:24	44702	MUNC_T2	144	126	-18	0.57	0.56	-0.01	0	0	0	0	0	0	0	0
10/24/2024 20:24	50506	MECH_T1	184	399	215	0.15	0.22	0.07	-0.3	-0.28	0	0	0	0	0	0
10/24/2024 20:24	44701	MUNC_T2	387	342	-45	0.52	0.34	-0.18	0	0	0	0	0	0	0	0
10/24/2024 20:24	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:24	60701	BREC_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
10/24/2024 20:24	45802	HEGI_T2	15	2	-13	0.34	0.15	-0.19	0.75	0.76	0	0	0	0	0	0
10/24/2024 20:24	54701	NEBL_T1	8	8	0	0.81	1.03	0.22	0	0	0	0	0	0	0	0
10/24/2024 20:24	44703	MUNC_T2	2	2	0	1.75	1.65	-0.1	0	0	0	0	0	0	0	0
10/24/2024 20:24	57401	SPAN_T1	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
10/24/2024 20:24	50504	MECH_T1	238	435	197	0.2	0.31	0.11	0	0	0	0	0	0	0	0
10/24/2024 20:25	65502	MOJO_T2	64	124	60	0.11	0.11	0	-0.95	-1.04	0	0	0	0	0	0
10/24/2024 20:25	43105	SMIL_T2	16	17	1	0.3	0.32	0.02	0	0	0	0	0	0	0	0
10/24/2024 20:25	46004	BERW_T2	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
10/24/2024 20:25	65503	MOJO_T2	4	6	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/24/2024 20:25	59201	THOM_T1	107	117	10	0.6	0.66	0.06	0	0	0	0	0	0	0	0
10/24/2024 20:25	59202	THOM_T1	631	665	34	0.81	0.9	0.09	0	0	0	0	0	0	0	0
10/24/2024 20:25	54001	SDLE_T1	47	73	26	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
10/24/2024 20:25	43103	SMIL_T2	18	22	4	0.52	0.63	0.11	-1.03	-1.03	0	0	0	0	0	0
10/24/2024 20:25	43102	SMIL_T2	6	6	0	0.62	0.72	0.1	0	0	0	0	0	0	0	0
10/24/2024 20:25	55101	WERT_T1	0	0	0	0	0	0	-1.23	-1.24	1	1	0	600	600	0
10/24/2024 20:25	43108	SMIL_T2	3	3	0	0.13	0.17	0.04	0	0	0	0	0	0	0	0
10/24/2024 20:25	67402	WAKE_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
10/24/2024 20:25	44802	EDAN_T2	0	0	0	0	0	0	-0.99	-1.04	0	0	0	0	0	0
10/24/2024 20:25	43104	SMIL_T2	0	0	0	0	0	0	-2.55	-2.65	3	3	0	900	900	0
10/24/2024 20:25	67605	WARW_T1	11	12	1	0.27	0.34	0.07	-1.1	-1.19	0	0	0	0	0	0
10/24/2024 20:26	64305	LINC_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/24/2024 20:26	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:26	42201	SHEN_T2	3	3	0	0.33	0.23	-0.1	0.35	0.34	0	0	0	0	0	0
10/24/2024 20:26	57201	ROSS_T1	121	47	-74	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
10/24/2024 20:26	20402	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/24/2024 20:26	57203	ROSS_T1	212	0	-212	0.14	0	-0.14	0	0	0	0	0	0	0	0
10/24/2024 20:26	57205	ROSS_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
10/24/2024 20:26	20401	ASHF_T2	23	8	-15	0.32	0.6	0.28	0	0	0	0	0	0	0	0
10/24/2024 20:26	45802	HEGI_T2	15	2	-13	0.34	0.15	-0.19	0	0	0	0	0	0	0	0
10/24/2024 20:26	20403	ASHF_T2	3	3	0	0.17	0.1	-0.07	0.03	0.07	0	0	0	0	0	0
10/24/2024 20:26	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/24/2024 20:26	46101	MACI_T2	0	0	0	0	0	0	0.69	0.65	0	0	0	0	0	0
10/24/2024 20:26	64303	LINC_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
10/24/2024 20:27	59402	RFLD_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/24/2024 20:27	57401	SPAN_T1	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
10/24/2024 20:27	55101	WERT_T1	0	0	0	0	0	0	-1.23	-1.24	1	1	0	600	600	0
10/24/2024 20:27	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:28	50505	MECH_T1	99	205	106	0.15	0.17	0.02	0	0	0	0	0	0	0	0
10/24/2024 20:28	50503	MECH_T1	78	145	67	0.17	0.28	0.11	0	0	0	0	0	0	0	0
10/24/2024 20:28	50502	MECH_T1	1	1	0	3	3.2	0.2	0	0	0	0	0	0	0	0
10/24/2024 20:28	50504	MECH_T1	238	435	197	0.2	0.31	0.11	0	0	0	0	0	0	0	0
10/24/2024 20:28	50501	MECH_T1	11	74	63	0.84	0.29	-0.55	0	0	0	0	0	0	0	0
10/24/2024 20:28	50506	MECH_T1	184	399	215	0.15	0.22	0.07	-0.3	-0.28	0	0	0	0	0	0
10/24/2024 20:28	44301	BEAV_T2	0	0	0	0	0	0	-0.11	-0.07	1	1	0	600	600	0
10/24/2024 20:29	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:29	63804	HEMP_T1	1	1	0	5.3	5.2	-0.1	0.69	0.67	0	0	0	0	0	0
10/24/2024 20:30	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/24/2024 20:30	49803	UNIV_T1	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
10/24/2024 20:30	53501	EVIL_T2	1	2	1	0.6	0.55	-0.05	-0.32	-0.37	0	0	0	0	0	0
10/24/2024 20:30	54502	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/24/2024 20:30	54501	ENOL_T2	4	4	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
10/24/2024 20:30	59301	MCAL_T1	82	86	4	0.54	0.59	0.05	0	0	0	0	0	0	0	0
10/24/2024 20:30	54504	ENOL_T2	0	0	0	0	0	0	-1.17	-1.17	1	1	0	600	600	0
10/24/2024 20:30	54505	ENOL_T2	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
10/24/2024 20:30	65601	QVIL_T2	78	103	25	0.19	0.23	0.04	0	0	0	0	0	0	0	0
10/24/2024 20:30	49804	UNIV_T1	0	1	1	0	0.1	0.1	0.43	0.44	0	0	0	0	0	0
10/24/2024 20:30	59302	MCAL_T1	2	2	0	1.15	1.3	0.15	0	0	0	0	0	0	0	0
10/24/2024 20:30	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2024 20:30	65603	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/24/2024 20:30	54001	SDLE_T1	61	104	43	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
10/24/2024 20:30	65604	QVIL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/24/2024 20:30	66505	SMAN_T2	3	3	0	1.03	1.27	0.24	0	0	0	0	0	0	0	0
10/24/2024 20:30	66504	SMAN_T2	0	0	0	0	0	0	-0.59	-0.52	0	0	0	0	0	0
10/24/2024 20:31	50504	MECH_T1	385	448	63	0.28	0.32	0.04	0	0	0	0	0	0	0	0
10/24/2024 20:31	50506	MECH_T1	362	383	21	0.21	0.22	0.01	-0.3	-0.28	0	0	0	0	0	0
10/24/2024 20:31	65502	MOJO_T2	4	124	120	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/24/2024 20:31	64904	MILL_T1	0	0	0	0	0	0	0.51	0.4	0	0	0	0	0	0
10/24/2024 20:31	50505	MECH_T1	182	202	20	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
10/24/2024 20:31	42201	SHEN_T2	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0	0
10/24/2024 20:31	50502	MECH_T1	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
10/24/2024 20:31	50501	MECH_T1	69	69	0	0.29	0.3	0.01	0	0	0	0	0	0	0	0
10/24/2024 20:31	50503	MECH_T1	126	147	21	0.21	0.28	0.07	0	0	0	0	0	0	0	0
10/24/2024 20:31	57205	ROSS_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
10/24/2024 20:31	65503	MOJO_T2	2	6	4	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/24/2024 20:31	57201	ROSS_T1	46	29	-17	0.19	0.27	0.08	0	0	0	0	0	0	0	0
10/24/2024 20:32	64704	LITI_T1	0	0	0	0	0	0	0.22	0.3	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/24/2024 20:32	55105	WERT_T1	0	0	0	0	0	0	-0.73	-0.7	1	1	0	900	900	0
10/24/2024 20:52	43108	SMIL_T2	3	8	5	0.13	0.15	0.02	0	0	0	0	0	0	0	0
10/24/2024 20:52	43103	SMIL_T2	7	18	11	0.41	0.66	0.25	-1.02	-1.04	0	0	0	0	0	0
10/24/2024 20:52	43102	SMIL_T2	6	7	1	0.72	0.81	0.09	0	0	0	0	0	0	0	0
10/24/2024 20:52	43104	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/24/2024 20:52	43105	SMIL_T2	17	23	6	0.31	0.41	0.1	0	0	0	0	0	0	0	0
10/24/2024 21:01	10903	COOP_T2	42	91	49	0.16	0.27	0.11	0	0	0	0	0	0	0	0
10/24/2024 21:23	42504	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/24/2024 21:23	42501	ALTA_T2	1	0	-1	0.3	0	-0.3	-0.14	-0.12	1	1	0	600	600	0
10/25/2024 7:55	55101	WERT_T1	0	0	0	0	0	0	-1.39	-1.34	1	1	0	600	600	0
10/25/2024 8:18	55507	HERS_T1	4	21	17	0.18	0.23	0.05	0	0	0	0	0	0	0	0
10/25/2024 8:18	55503	HERS_T1	0	0	0	0	0	0	-1.71	-1.68	1	1	0	1200	1200	0
10/25/2024 8:18	55501	HERS_T1	52	52	0	0.3	0.71	0.41	0	0	0	0	0	0	0	0
10/25/2024 8:36	52502	PROG_T2	0	0	0	0	0	0	-0.65	-0.66	1	1	0	900	900	0
10/25/2024 8:44	40801	EXCH_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/25/2024 8:44	40802	EXCH_T2	1	1	0	0.1	0.4	0.3	-0.18	-0.22	0	0	0	0	0	0
10/25/2024 8:45	45702	LIND_T2	0	1	1	0	0.1	0.1	-0.44	-0.43	0	0	0	0	0	0
10/25/2024 8:48	64903	MILL_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
10/25/2024 8:50	24204	PROV_T3	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
10/25/2024 8:50	24201	PROV_T3	70	137	67	0.19	0.18	-0.01	0	0	1	1	0	1200	1200	0
10/25/2024 8:55	45502	DERR_T2	0	2	2	0	0	0	0.42	0.5	0	0	0	0	0	0
10/25/2024 9:02	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.77	1	1	0	900	900	0
10/25/2024 9:09	59202	THOM_T1	108	519	411	0.21	0.38	0.17	0	0	0	0	0	0	0	0
10/25/2024 9:09	59201	THOM_T1	11	51	40	0.14	0.3	0.16	0	0	0	0	0	0	0	0
10/25/2024 9:11	59201	THOM_T1	11	51	40	0.14	0.3	0.16	0	0	0	0	0	0	0	0
10/25/2024 9:11	59202	THOM_T1	108	519	411	0.21	0.38	0.17	0	0	0	0	0	0	0	0
10/25/2024 9:16	65502	MOJO_T2	0	1	1	0	0.1	0.1	-0.29	-0.36	0	0	0	0	0	0
10/25/2024 9:16	65503	MOJO_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 9:17	65502	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 9:17	65503	MOJO_T2	0	3	3	0	0.1	0.1	-0.31	-0.32	0	0	0	0	0	0
10/25/2024 9:19	65503	MOJO_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 9:19	65502	MOJO_T2	0	1	1	0	0.1	0.1	-0.29	-0.36	0	0	0	0	0	0
10/25/2024 9:23	14802	TREI_T2	0	10	10	0	0.17	0.17	0	0	0	0	0	0	0	0
10/25/2024 9:23	14801	TREI_T2	2	10	8	0.3	0.24	-0.06	0.39	0.35	0	0	0	0	0	0
10/25/2024 9:23	42701	AUGU_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/25/2024 9:23	67103	SPRI_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
10/25/2024 9:32	46504	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 9:32	46506	LOHA_T1	3	3	0	4.73	5.1	0.37	0	0	0	0	0	0	0	0
10/25/2024 9:32	55508	HERS_T2	2	2	0	1.6	1.9	0.3	-2.59	-2.6	1	1	0	1200	1200	0
10/25/2024 9:32	46503	LOHA_T1	0	0	0	0	0	0	-1.26	-1.22	0	0	0	0	0	0
10/25/2024 9:33	54203	PENN_T1	18	18	0	0.82	1.35	0.53	0	0	0	0	0	0	0	0
10/25/2024 9:33	54201	PENN_T1	10	10	0	0.6	1.17	0.57	0	0	0	0	0	0	0	0
10/25/2024 9:36	43301	WATS_T2	0	0	0	0	0	0	-0.84	-0.83	1	1	0	900	900	0
10/25/2024 9:40	51303	WIND_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 9:40	51301	WIND_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 9:43	41801	GOCI_T2	1	25	24	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
10/25/2024 9:44	46004	BERW_T2	1	2	1	0.3	0.45	0.15	-0.76	-0.7	0	0	0	0	0	0
10/25/2024 9:44	46002	BERW_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/25/2024 9:53	67503	WEWI_T2	1	1	0	9.5	9.6	0.1	0	0	0	0	0	0	0	0
10/25/2024 9:53	67502	WEWI_T2	63	41	-22	0.18	0.2	0.02	-0.32	-0.28	0	0	0	0	0	0
10/25/2024 9:54	54001	SDLE_T1	124	108	-16	0.29	0.31	0.02	0	0	0	0	0	0	0	0
10/25/2024 9:54	60801	BUCK_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/25/2024 9:54	60803	BUCK_T1	13	7	-6	0.17	0.16	-0.01	-1	-1	2	2	0	1200	1200	0
10/25/2024 9:56	67505	WEWI_T1	0	0	0	0	0	0	-0.09	-0.06	1	1	0	900	900	0
10/25/2024 9:56	67504	WEWI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 9:56	67501	WEWI_T1	1	3	2	0.8	0.73	-0.07	0	0	0	0	0	0	0	0
10/25/2024 9:56	67503	WEWI_T2	1	1	0	9.5	9.6	0.1	-0.27	-0.24	0	0	0	0	0	0
10/25/2024 9:56	67502	WEWI_T2	63	41	-22	0.18	0.2	0.02	0	0	0	0	0	0	0	0
10/25/2024 9:59	63802	HEMP_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/25/2024 9:59	63804	HEMP_T1	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
10/25/2024 9:59	63803	HEMP_T1	12	4	-8	0.2	0.33	0.13	0	0	0	0	0	0	0	0
10/25/2024 9:59	63801	HEMP_T1	7	3	-4	0.19	0.17	-0.02	-0.04	0.2	0	0	0	0	0	0
10/25/2024 10:00	67503	WEWI_T2	1	1	0	9.6	9.4	-0.2	-0.27	-0.24	0	0	0	0	0	0
10/25/2024 10:00	65503	MOJO_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
10/25/2024 10:00	54203	PENN_T1	18	19	1	1.24	1.15	-0.09	0	0	0	0	0	0	0	0
10/25/2024 10:00	67502	WEWI_T2	41	14	-27	0.2	0.29	0.09	0	0	0	0	0	0	0	0
10/25/2024 10:00	54201	PENN_T1	10	10	0	0.99	0.97	-0.02	0	0	0	0	0	0	0	0
10/25/2024 10:00	24201	PROV_T3	16	198	182	0.47	0.19	-0.28	0	0	1	1	0	1200	1200	0
10/25/2024 10:00	63501	HEID_TBK1-2	6	16	10	0.23	0.26	0.03	0.43	0.48	0	0	0	0	0	0
10/25/2024 10:00	65502	MOJO_T2	0	0	0	0	0	0	-0.34	-0.22	0	0	0	0	0	0
10/25/2024 10:00	24204	PROV_T3	1	2	1	5.5	2.75	-2.75	0	0	0	0	0	0	0	0
10/25/2024 10:07	15203	SFAR_T2	4	3	-1	0.3	0.5	0.2	-1.35	-1.34	0	0	0	0	0	0
10/25/2024 10:09	59201	THOM_T1	50	61	11	0.31	0.35	0.04	0	0	0	0	0	0	0	0
10/25/2024 10:09	59202	THOM_T1	534	571	37	0.35	0.42	0.07	0	0	0	0	0	0	0	0
10/25/2024 10:09	60201	ATGL_T2	59	14	-45	0.17	0.16	-0.01	-0.05	-0.22	0	0	0	0	0	0
10/25/2024 10:10	23001	SAJO_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
10/25/2024 10:11	59202	THOM_T1	534	571	37	0.35	0.42	0.07	0	0	0	0	0	0	0	0
10/25/2024 10:11	12601	MACA_T1	1	1	0	0.5	1.2	0.7	0	0	0	0	0	0	0	0
10/25/2024 10:11	12606	MACA_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
10/25/2024 10:11	59201	THOM_T1	50	61	11	0.31	0.35	0.04	0	0	0	0	0	0	0	0
10/25/2024 10:11	14801	TREI_T2	28	101	73	0.18	0.21	0.03	0.38	0.35	0	0	0	0	0	0
10/25/2024 10:11	14802	TREI_T2	12	32	20	0.21	0.24	0.03	0	0	0	0	0	0	0	0
10/25/2024 10:12	59202	THOM_T1	534	571	37	0.35	0.42	0.07	0	0	0	0	0	0	0	0
10/25/2024 10:12	59201	THOM_T1	50	61	11	0.31	0.35	0.04	0	0	0	0	0	0	0	0
10/25/2024 10:14	45501	DERR_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
10/25/2024 10:14	63501	HEID_TBK1-2	6	16	10	0.23	0.26	0.03	0.48	0.49	0	0	0	0	0	0
10/25/2024 10:14	45502	DERR_T2	1	1	0	0.4	0	-0.4	0.45	0.37	0	0	0	0	0	0
10/25/2024 10:15	14802	TREI_T2	14	36	22	0.24	0.25	0.01	0.37	0.34	0	0	0	0	0	0
10/25/2024 10:15	14801	TREI_T2	58	110	52	0.18	0.22	0.04	0	0	0	0	0	0	0	0
10/25/2024 10:17	41202	KENM_T2	1	1	0	1.1	0.1	-1	-0.59	0.49	0	0	0	0	0	0
10/25/2024 10:19	40603	PIGR_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/25/2024 10:19	65602	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/25/2024 10:19	40602	PIGR_T1	7	8	1	0.26	0.31	0.05	0	0	0	0	0	0	0	0
10/25/2024 10:19	40601	PIGR_T1	13	122	109	0.21	0.3	0.09	0	0	0	0	0	0	0	0
10/25/2024 10:19	65601	QVIL_T2	3	8	5	0.1	0.34	0.24	0	0	0	0	0	0	0	0
10/25/2024 10:20	40603	PIGR_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/25/2024 10:20	40601	PIGR_T1	13	122	109	0.21	0.3	0.09	0	0	0	0	0	0	0	0
10/25/2024 10:20	40602	PIGR_T1	7	8	1	0.26	0.31	0.05	0	0	0	0	0	0	0	0
10/25/2024 10:21	24201	PROV_T3	134	163	29	0.2	0.18	-0.02	0	0	1	1	0	1200	1200	0
10/25/2024 10:21	43801	SWIL_T1	1	1	0	5.6	5.2	-0.4	0	0	0	0	0	0	0	0
10/25/2024 10:21	24204	PROV_T3	1	2	1	5.4	2.85	-2.55	0	0	0	0	0	0	0	0
10/25/2024 10:21	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 10:22	55105	WERT_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/25/2024 10:22	40602	PIGR_T1	7	8	1	0.26	0.31	0.05	0	0	0	0	0	0	0	0
10/25/2024 10:22	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 10:22	40603	PIGR_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/25/2024 10:22	40601	PIGR_T1	13	122	109	0.21	0.3	0.09	0	0	0	0	0	0	0	0
10/25/2024 10:23	42701	AUGU_T1	2	1	-1	0.45	0.8	0.35	0	0	0	0	0	0	0	0
10/25/2024 10:24	55101	WERT_T1	0	0	0	0	0	0	-0.7	-0.7	1	1	0	600	600	0
10/25/2024 10:24	57403	SPAN_T1	59	117	58	0.31	0.29	-0.02	0.04	-0.01	0	0	0	0	0	0
10/25/2024 10:24	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
10/25/2024 10:24	14801	TREI_T2	58	110	52	0.18	0.22	0.04	0	0	0	0	0	0	0	0
10/25/2024 10:24	57503	LAWN_T3	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/25/2024 10:24	67605	WARW_T1	8	13	5	0.38	0.52	0.14	0	0	0	0	0	0	0	0
10/25/2024 10:24	57505	LAWN_T3	9	30	21	0.21	0.31	0.1	0	0	0	0	0	0	0	0
10/25/2024 10:24	14802	TREI_T2	14	36	22	0.24	0.25	0.01	0.34	0.35	0	0	0	0	0	0
10/25/2024 10:24	57502	LAWN_T3	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
10/25/2024 10:24	57401	SPAN_T1	2	2	0	1.45	1.6	0.15	0	0	0	0	0	0	0	0
10/25/2024 10:24	55105	WERT_T1	0	2	2	0	0.2	0.2	-0.77	-0.75	1	1	0	900	900	0
10/25/2024 10:25	55101	WERT_T1	0	0	0	0	0	0	-0.7	-0.7	1	1	0	600	600	0
10/25/2024 10:25	55105	WERT_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/25/2024 10:28	40602	PIGR_T1	7	8	1	0.26	0.31	0.05	0	0	0	0	0	0	0	0
10/25/2024 10:28	57505	LAWN_T3	9	30	21	0.21	0.31	0.1	0	0	0	0	0	0	0	0
10/25/2024 10:28	57502	LAWN_T3	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
10/25/2024 10:28	40603	PIGR_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/25/2024 10:28	57503	LAWN_T3	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/25/2024 10:28	40601	PIGR_T1	13	122	109	0.21	0.3	0.09	-0.43	-0.51	0	0	0	0	0	0
10/25/2024 10:30	45702	LIND_T2	3	3	0	0.3	0.57	0.27	-0.45	-0.55	0	0	0	0	0	0
10/25/2024 10:30	46504	LOHA_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/25/2024 10:30	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
10/25/2024 10:30	46506	LOHA_T1	3	3	0	4.53	5.07	0.54	0	0	0	0	0	0	0	0
10/25/2024 10:35	46504	LOHA_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/25/2024 10:35	44701	MUNC_T2	4	6	2	0.2	0.32	0.12	0	0	0	0	0	0	0	0
10/25/2024 10:35	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
10/25/2024 10:35	44703	MUNC_T2	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0	0
10/25/2024 10:35	46506	LOHA_T1	3	3	0	4.53	5.07	0.54	0	0	0	0	0	0	0	0
10/25/2024 10:35	44702	MUNC_T2	59	81	22	0.19	0.27	0.08	0	0	0	0	0	0	0	0
10/25/2024 10:47	23403	HONE_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
10/25/2024 10:51	57402	SPAN_T2	0	1	1	0	0.3	0.3	-1.25	-1.24	0	0	0	0	0	0
10/25/2024 10:51	64305	LINC_T1	0	1	1	0	0.1	0.1	-0.11	-0.15	0	0	0	0	0	0
10/25/2024 10:51	57205	ROSS_T1	2	3	1	0.5	0.67	0.17	0.17	0.16	0	0	0	0	0	0
10/25/2024 10:53	54603	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 10:53	54602	SUMM_T2	16	17	1	0.55	1.15	0.6	0	0	1	1	0	600	600	0
10/25/2024 10:53	54601	SUMM_T2	13	13	0	0.75	1.02	0.27	0	0	0	0	0	0	0	0
10/25/2024 10:55	43402	BENT_T1	2	3	1	1	0.7	-0.3	-0.73	-0.72	1	1	0	900	900	0
10/25/2024 10:55	54602	SUMM_T2	16	17	1	0.55	1.15	0.6	0	0	0	0	0	0	0	0
10/25/2024 10:55	54601	SUMM_T2	13	13	0	0.75	1.02	0.27	-3.33	-3.32	1	1	0	1200	1200	0
10/25/2024 10:55	54603	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 11:01	65503	MOJO_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/25/2024 11:01	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 11:01	17804	GILB_T2	3	3	0	0.33	0.57	0.24	-0.61	-0.61	0	0	0	0	0	0
10/25/2024 11:01	17805	GILB_T2	2	3	1	0.55	0.57	0.02	0	0	0	0	0	0	0	0
10/25/2024 11:02	52004	LING_T2	5	6	1	3.12	2.82	-0.3	0.27	0.28	0	0	0	0	0	0
10/25/2024 11:02	41801	GOCI_T2	11	9	-2	0.49	0.61	0.12	0	0	0	0	0	0	0	0
10/25/2024 11:02	52002	LING_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
10/25/2024 11:02	52006	LING_T2	2	2	0	1	1.05	0.05	0	0	0	0	0	0	0	0
10/25/2024 11:05	66501	SMAN_T2	2	2	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
10/25/2024 11:05	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 11:05	66504	SMAN_T2	5	4	-1	0.48	0.7	0.22	-0.5	-0.46	0	0	0	0	0	0
10/25/2024 11:05	64903	MILL_T2	0	0	0	0	0	0	0.18	0.26	0	0	0	0	0	0
10/25/2024 11:05	64902	MILL_T2	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/25/2024 11:05	65503	MOJO_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/25/2024 11:05	66505	SMAN_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/25/2024 11:05	66502	SMAN_T2	17	7	-10	0.25	0.39	0.14	0	0	0	0	0	0	0	0
10/25/2024 11:06	66504	SMAN_T2	5	4	-1	0.48	0.7	0.22	-0.92	-0.85	0	0	0	0	0	0
10/25/2024 11:06	66501	SMAN_T2	2	2	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
10/25/2024 11:06	66502	SMAN_T2	17	7	-10	0.25	0.39	0.14	0	0	0	0	0	0	0	0
10/25/2024 11:06	66505	SMAN_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/25/2024 11:07	66504	SMAN_T2	5	4	-1	0.48	0.7	0.22	0	0	0	0	0	0	0	0
10/25/2024 11:07	57205	ROSS_T1	3	3	0	0.57	1	0.43	0	0	0	0	0	0	0	0
10/25/2024 11:07	57201	ROSS_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
10/25/2024 11:07	57203	ROSS_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
10/25/2024 11:07	66501	SMAN_T2	2	2	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
10/25/2024 11:07	66505	SMAN_T2	2	1	-1	0.2	0.4	0.2	0.26	0.27	1	1	0	900	900	0
10/25/2024 11:07	66502	SMAN_T2	17	7	-10	0.25	0.39	0.14	0.31	0.32	0	0	0	0	0	0
10/25/2024 11:08	64802	MONE_T2	126	127	1	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
10/25/2024 11:08	64801	MONE_T2	44	40	-4	0.21	0.23	0.02	0.26	0.21	0	0	0	0	0	0
10/25/2024 11:09	66501	SMAN_T2	2	2	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
10/25/2024 11:09	66502	SMAN_T2	17	7	-10	0.25	0.39	0.14	0	0	0	0	0	0	0	0
10/25/2024 11:09	66505	SMAN_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/25/2024 11:09	66504	SMAN_T2	5	4	-1	0.48	0.7	0.22	-0.46	-0.43	0	0	0	0	0	0
10/25/2024 11:10	66502	SMAN_T2	17	7	-10	0.25	0.39	0.14	0	0	0	0	0	0	0	0
10/25/2024 11:10	66501	SMAN_T2	2	2	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
10/25/2024 11:10	66504	SMAN_T2	5	4	-1	0.48	0.7	0.22	-0.46	-0.43	0	0	0	0	0	0
10/25/2024 11:10	66505	SMAN_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/25/2024 11:10	50701	SMEC_T1	8	8	0	0.38	0.61	0.23	0.08	0.16	0	0	0	0	0	0
10/25/2024 11:12	45501	DERR_T2	2	3	1	0.7	0.4	-0.3	0.11	0.01	2	2	0	1800	1800	0
10/25/2024 11:12	11901	ETEX_T2	3	3	0	0.3	0.33	0.03	0.33	0.33	0	0	0	0	0	0
10/25/2024 11:12	11904	ETEX_T2	1	1	0	0.9	0.4	-0.5	0.47	0.43	0	0	0	0	0	0
10/25/2024 11:13	67802	WLAN_T1	3	6	3	0.57	0.33	-0.24	0	0	0	0	0	0	0	0
10/25/2024 11:13	67804	WLAN_T1	23	67	44	0.29	0.25	-0.04	0	0	0	0	0	0	0	0
10/25/2024 11:13	67805	WLAN_T1	1	20	19	0.1	0.11	0.01	-1.01	-1	0	0	0	0	0	0
10/25/2024 11:13	67803	WLAN_T1	8	21	13	0.31	0.25	-0.06	0	0	0	0	0	0	0	0
10/25/2024 11:15	26703	HEML_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	600	600	0
10/25/2024 11:16	63501	HEID_TBK1-2	4	4	0	0.4	0.68	0.28	0.68	0.68	0	0	0	0	0	0
10/25/2024 11:17	46803	HEPB_T2	14	16	2	0.31	0.35	0.04	0	0	0	0	0	0	0	0
10/25/2024 11:17	20201	JERM_T1	0	0	0	0	0	0	-0.75	-0.48	2	2	0	2400	2400	0
10/25/2024 11:17	46801	HEPB_T2	16	25	9	0.34	0.31	-0.03	0.55	0.54	0	0	0	0	0	0
10/25/2024 11:22	67401	WAKE_T2	75	106	31	0.25	0.28	0.03	-1.1	-1.13	0	0	0	0	0	0
10/25/2024 11:22	67402	WAKE_T2	2	6	4	0.65	0.43	-0.22	0.15	0.16	0	0	0	0	0	0
10/25/2024 11:23	54204	PENN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 11:23	54206	PENN_T2	1	6	5	0.3	0.3	0	0	0	0	0	0	0	0	0
10/25/2024 11:23	54202	PENN_T2	4	4	0	0.58	0.68	0.1	0	0	0	0	0	0	0	0
10/25/2024 11:24	67402	WAKE_T2	2	6	4	0.65	0.43	-0.22	0	0	0	0	0	0	0	0
10/25/2024 11:24	67401	WAKE_T2	75	106	31	0.25	0.28	0.03	-1.1	-1.13	0	0	0	0	0	0
10/25/2024 11:25	26002	WDAM_T1	2	2	0	0.65	1.05	0.4	0	0	0	0	0	0	0	0
10/25/2024 11:31	46801	HEPB_T2	25	2	-23	0.31	1.1	0.79	0	0	0	0	0	0	0	0
10/25/2024 11:31	46803	HEPB_T2	16	2	-14	0.35	0.3	-0.05	0.45	0.44	0	0	0	0	0	0
10/25/2024 11:34	55001	NEWP_T1	3	8	5	0.63	0.49	-0.14	0	0	0	0	0	0	0	0
10/25/2024 11:34	55002	NEWP_T1	6	11	5	1.13	0.92	-0.21	-0.17	-0.19	0	0	0	0	0	0
10/25/2024 11:35	44505	HAMI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/25/2024 11:35	44502	HAMI_T2	1	1	0	3.4	3.2	-0.2	0	0	0	0	0	0	0	0
10/25/2024 11:36	43108	SMIL_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/25/2024 11:36	43101	SMIL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
10/25/2024 11:36	43102	SMIL_T2	7	8	1	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
10/25/2024 11:36	44502	HAMI_T2	1	1	0	3.4	3.2	-0.2	0	0	0	0	0	0	0	0
10/25/2024 11:36	43103	SMIL_T2	23	23	0	0.67	0.73	0.06	0	0	0	0	0	0	0	0
10/25/2024 11:36	44505	HAMI_T2	0	1	1	0	0.2	0.2	0.44	0.45	0	0	0	0	0	0
10/25/2024 11:36	43105	SMIL_T2	15	13	-2	0.35	0.39	0.04	0	0	0	0	0	0	0	0
10/25/2024 11:36	43104	SMIL_T2	4	4	0	0.75	0.83	0.08	-0.83	-0.74	1	1	0	300	300	0
10/25/2024 11:37	49804	UNIV_T1	1	4	3	0.4	0.48	0.08	0.71	0.57	0	0	0	0	0	0
10/25/2024 11:37	49803	UNIV_T1	2	4	2	3.45	1.9	-1.55	0	0	0	0	0	0	0	0
10/25/2024 11:38	64305	LINC_T1	3	2	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/25/2024 11:38	43104	SMIL_T2	4	4	0	0.75	0.83	0.08	-0.83	-0.74	1	1	0	300	300	0
10/25/2024 11:38	43101	SMIL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
10/25/2024 11:38	64303	LINC_T1	0	1	1	0	0.2	0.2	-0.19	-0.21	0	0	0	0	0	0
10/25/2024 11:38	43108	SMIL_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/25/2024 11:38	43103	SMIL_T2	23	23	0	0.67	0.73	0.06	-0.96	-0.95	0	0	0	0	0	0
10/25/2024 11:38	43105	SMIL_T2	15	13	-2	0.35	0.39	0.04	0	0	0	0	0	0	0	0
10/25/2024 11:38	43102	SMIL_T2	7	8	1	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
10/25/2024 11:39	43103	SMIL_T2	23	23	0	0.67	0.73	0.06	0	0	0	0	0	0	0	0
10/25/2024 11:39	43108	SMIL_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/25/2024 11:39	43101	SMIL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
10/25/2024 11:39	43104	SMIL_T2	4	4	0	0.75	0.83	0.08	-0.83	-0.74	1	1	0	300	300	0
10/25/2024 11:39	43105	SMIL_T2	15	13	-2	0.35	0.39	0.04	0	0	0	0	0	0	0	0
10/25/2024 11:39	43102	SMIL_T2	7	8	1	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
10/25/2024 11:39	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 11:40	49803	UNIV_T1	2	4	2	3.45	1.9	-1.55	-1.03	-1.05	0	0	0	0	0	0
10/25/2024 11:40	49804	UNIV_T1	1	4	3	0.4	0.48	0.08	0	0	0	0	0	0	0	0
10/25/2024 11:43	17802	GILB_T1	4	4	0	0.75	0.85	0.1	0.09	0.1	0	0	0	0	0	0
10/25/2024 11:44	40902	JESH_T1	0	0	0	0	0	0	-0.41	-0.3	0	0	0	0	0	0
10/25/2024 11:44	40901	JESH_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
10/25/2024 11:48	65002	NEFF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/25/2024 11:48	59302	MCAL_T1	2	5	3	0.6	0.64	0.04	0	0	0	0	0	0	0	0
10/25/2024 11:48	65003	NEFF_T2	9	8	-1	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
10/25/2024 11:48	65005	NEFF_T2	2	2	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
10/25/2024 11:48	65001	NEFF_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
10/25/2024 11:48	65004	NEFF_T2	3	3	0	0.17	0.37	0.2	0	0	0	0	0	0	0	0
10/25/2024 11:48	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 11:48	59301	MCAL_T1	61	72	11	0.43	0.48	0.05	0	0	0	0	0	0	0	0
10/25/2024 11:48	40901	JESH_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/25/2024 11:49	65003	NEFF_T2	9	8	-1	0.38	0.36	-0.02	-1.69	-1.7	2	2	0	1800	1800	0
10/25/2024 11:49	65004	NEFF_T2	3	3	0	0.17	0.37	0.2	0	0	0	0	0	0	0	0
10/25/2024 11:49	65005	NEFF_T2	2	2	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
10/25/2024 11:49	59301	MCAL_T1	61	72	11	0.43	0.48	0.05	-1.12	-1.16	0	0	0	0	0	0
10/25/2024 11:49	59302	MCAL_T1	2	5	3	0.6	0.64	0.04	0	0	0	0	0	0	0	0
10/25/2024 11:49	65002	NEFF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/25/2024 11:50	44904	SCOT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/25/2024 11:51	40901	JESH_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/25/2024 11:51	40902	JESH_T1	0	0	0	0	0	0	-0.3	-0.4	0	0	0	0	0	0
10/25/2024 11:54	44902	SCOT_T2	4	6	2	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
10/25/2024 11:54	44901	SCOT_T2	11	17	6	0.35	0.3	-0.05	0.27	0.24	0	0	0	0	0	0
10/25/2024 11:58	26001	WDAM_T1	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
10/25/2024 11:58	26002	WDAM_T1	2	4	2	1	0.9	-0.1	0	0	0	0	0	0	0	0
10/25/2024 12:00	46002	BERW_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/25/2024 12:00	46004	BERW_T2	2	3	1	0.35	0.2	-0.15	-0.8	-0.76	0	0	0	0	0	0
10/25/2024 12:07	64904	MILL_T1	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
10/25/2024 12:09	43103	SMIL_T2	13	19	6	0.51	0.43	-0.08	0	0	0	0	0	0	0	0
10/25/2024 12:09	43101	SMIL_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
10/25/2024 12:09	43102	SMIL_T2	8	6	-2	0.65	0.7	0.05	-0.8	-0.83	1	1	0	600	600	0
10/25/2024 12:09	43104	SMIL_T2	4	4	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
10/25/2024 12:09	43105	SMIL_T2	8	6	-2	0.4	0.43	0.03	0	0	0	0	0	0	0	0
10/25/2024 12:09	13303	ORVI_T1	3	3	0	0.2	0.43	0.23	1.03	1	0	0	0	0	0	0
10/25/2024 12:11	63602	LETO_T1	54	90	36	0.15	0.16	0.01	-0.49	-0.53	0	0	0	0	0	0
10/25/2024 12:11	63601	LETO_T1	4	8	4	0.2	0.35	0.15	0	0	0	0	0	0	0	0
10/25/2024 12:14	63601	LETO_T1	4	8	4	0.2	0.35	0.15	0.96	0.63	1	1	0	900	900	0
10/25/2024 12:14	63602	LETO_T1	54	90	36	0.15	0.16	0.01	0	0	0	0	0	0	0	0
10/25/2024 12:14	43101	SMIL_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
10/25/2024 12:14	43105	SMIL_T2	8	6	-2	0.4	0.43	0.03	0	0	0	0	0	0	0	0
10/25/2024 12:14	43103	SMIL_T2	13	19	6	0.51	0.43	-0.08	-0.97	-0.93	0	0	0	0	0	0
10/25/2024 12:14	43104	SMIL_T2	4	4	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
10/25/2024 12:14	43102	SMIL_T2	8	6	-2	0.65	0.7	0.05	0	0	0	0	0	0	0	0
10/25/2024 12:15	44901	SCOT_T2	15	40	25	0.31	0.22	-0.09	0	0	0	0	0	0	0	0
10/25/2024 12:15	43102	SMIL_T2	6	7	1	0.7	0.64	-0.06	0	0	0	0	0	0	0	0
10/25/2024 12:15	44902	SCOT_T2	6	5	-1	0.5	0.54	0.04	-0.9	-0.95	0	0	0	0	0	0
10/25/2024 12:15	43104	SMIL_T2	4	4	0	0.63	1.03	0.4	0	0	0	0	0	0	0	0
10/25/2024 12:15	43105	SMIL_T2	5	10	5	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
10/25/2024 12:15	44801	EDAN_T2	4	2	-2	0.58	1.15	0.57	-0.47	-0.47	0	0	0	0	0	0
10/25/2024 12:15	43101	SMIL_T2	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/25/2024 12:15	43103	SMIL_T2	14	27	13	0.46	0.66	0.2	-0.97	-0.93	0	0	0	0	0	0
10/25/2024 12:19	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/25/2024 12:20	58402	MORO_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
10/25/2024 12:20	59402	PELD_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/25/2024 12:20	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/25/2024 12:20	58401	MORO_T1	0	1	1	0	0.2	0.2	-1.2	-1.17	1	1	0	600	600	0
10/25/2024 12:20	41902	REED_T1	2	4	2	0.4	0.35	-0.05	1.72	1.74	0	0	0	0	0	0
10/25/2024 12:21	13701	SCHN_T2	6	6	0	0.23	0.35	0.12	0	0	0	0	0	0	0	0
10/25/2024 12:21	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/25/2024 12:21	15702	TANN_T2	0	2	2	0	0.15	0.15	-0.45	-0.45	0	0	0	0	0	0
10/25/2024 12:21	14403	SSLA_T1	9	15	6	0.54	0.6	0.06	0	0	0	0	0	0	0	0
10/25/2024 12:21	57403	SPAN_T1	90	138	48	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
10/25/2024 12:21	43802	SWIL_T1	1	1	0	0.2	0.5	0.3	-0.23	-0.23	1	1	0	600	600	0
10/25/2024 12:21	41902	REED_T1	2	4	2	0.4	0.35	-0.05	0.86	0.87	0	0	0	0	0	0
10/25/2024 12:21	58402	MORO_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
10/25/2024 12:21	14404	SSLA_T1	37	59	22	0.26	0.26	0	-0.26	-0.05	0	0	0	0	0	0
10/25/2024 12:21	13704	SCHN_T2	1	1	0	0.3	0.4	0.1	-0.33	-0.34	0	0	0	0	0	0
10/25/2024 12:21	58401	MORO_T1	0	1	1	0	0.2	0.2	-1.2	-1.17	1	1	0	600	600	0
10/25/2024 12:21	14401	SSLA_T1	15	29	14	0.39	0.44	0.05	-0.54	-0.53	0	0	0	0	0	0
10/25/2024 12:21	15703	TANN_T2	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
10/25/2024 12:21	43801	SWIL_T1	2	2	0	2.7	2.7	0	0	0	0	0	0	0	0	0
10/25/2024 12:21	14402	SSLA_T1	38	74	36	0.29	0.24	-0.05	0	0	0	0	0	0	0	0
10/25/2024 12:21	57401	SPAN_T1	3	4	1	0.9	0.7	-0.2	0.1	0.15	0	0	0	0	0	0
10/25/2024 12:22	43102	SMIL_T2	6	7	1	0.7	0.64	-0.06	-0.83	-0.8	1	1	0	600	600	0
10/25/2024 12:22	43105	SMIL_T2	5	10	5	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
10/25/2024 12:22	14404	SSLA_T1	37	59	22	0.26	0.26	0	0	0	0	0	0	0	0	0
10/25/2024 12:22	43104	SMIL_T2	4	4	0	0.63	1.03	0.4	0	0	0	0	0	0	0	0
10/25/2024 12:22	14402	SSLA_T1	38	74	36	0.29	0.24	-0.05	0	0	0	0	0	0	0	0
10/25/2024 12:22	15702	TANN_T2	0	2	2	0	0.15	0.15	-0.45	-0.45	0	0	0	0	0	0
10/25/2024 12:22	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/25/2024 12:22	15703	TANN_T2	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
10/25/2024 12:22	43101	SMIL_T2	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/25/2024 12:22	14403	SSLA_T1	9	15	6	0.54	0.6	0.06	0.49	0.56	0	0	0	0	0	0
10/25/2024 12:22	43103	SMIL_T2	14	27	13	0.46	0.66	0.2	0	0	0	0	0	0	0	0
10/25/2024 12:22	41902	REED_T1	2	4	2	0.4	0.35	-0.05	0.87	0.9	0	0	0	0	0	0
10/25/2024 12:22	14401	SSLA_T1	15	29	14	0.39	0.44	0.05	-1.08	-1.06	0	0	0	0	0	0
10/25/2024 12:22	13303	ORVI_T1	3	4	1	0.4	0.58	0.18	1	1.02	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/25/2024 12:23	67605	WARW_T1	33	40	7	0.58	0.58	0	-1.19	-1.19	0	0	0	0	0	0
10/25/2024 12:23	14403	SSLA_T1	9	15	6	0.54	0.6	0.06	0	0	0	0	0	0	0	0
10/25/2024 12:23	14402	SSLA_T1	38	74	36	0.29	0.24	-0.05	0	0	0	0	0	0	0	0
10/25/2024 12:23	41902	REED_T1	2	4	2	0.4	0.35	-0.05	0.87	0.9	0	0	0	0	0	0
10/25/2024 12:23	14404	SSLA_T1	37	59	22	0.26	0.26	0	-0.13	-0.02	0	0	0	0	0	0
10/25/2024 12:23	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/25/2024 12:23	67603	WARW_T1	3	4	1	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
10/25/2024 12:23	14401	SSLA_T1	15	29	14	0.39	0.44	0.05	-0.54	-0.53	0	0	0	0	0	0
10/25/2024 12:24	44904	SCOT_T1	0	1	1	0	0.3	0.3	0.84	0.82	0	0	0	0	0	0
10/25/2024 12:24	15703	TANN_T2	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
10/25/2024 12:24	44902	SCOT_T2	6	5	-1	0.5	0.54	0.04	-0.95	-0.89	0	0	0	0	0	0
10/25/2024 12:24	15702	TANN_T2	0	2	2	0	0.15	0.15	-0.45	-0.45	0	0	0	0	0	0
10/25/2024 12:24	43105	SMIL_T2	5	10	5	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
10/25/2024 12:24	43102	SMIL_T2	6	7	1	0.7	0.64	-0.06	-0.83	-0.8	1	1	0	600	600	0
10/25/2024 12:24	44901	SCOT_T2	15	40	25	0.31	0.22	-0.09	0	0	0	0	0	0	0	0
10/25/2024 12:24	55105	WERT_T1	2	5	3	0.65	0.36	-0.29	-1.38	-1.4	2	2	0	1800	1800	0
10/25/2024 12:24	43103	SMIL_T2	14	27	13	0.46	0.66	0.2	0	0	0	0	0	0	0	0
10/25/2024 12:24	43104	SMIL_T2	4	4	0	0.63	1.03	0.4	-0.85	-0.84	1	1	0	300	300	0
10/25/2024 12:24	43101	SMIL_T2	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/25/2024 12:24	67603	WARW_T1	3	4	1	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
10/25/2024 12:24	67605	WARW_T1	33	40	7	0.58	0.58	0	-1.19	-1.19	0	0	0	0	0	0
10/25/2024 12:25	14402	SSLA_T1	38	74	36	0.29	0.24	-0.05	0	0	0	0	0	0	0	0
10/25/2024 12:25	14401	SSLA_T1	15	29	14	0.39	0.44	0.05	-0.54	-0.53	0	0	0	0	0	0
10/25/2024 12:25	14403	SSLA_T1	9	15	6	0.54	0.6	0.06	0.49	0.56	0	0	0	0	0	0
10/25/2024 12:25	41902	REED_T1	2	4	2	0.4	0.35	-0.05	0.87	0.9	0	0	0	0	0	0
10/25/2024 12:25	59202	THOM_T1	897	904	7	0.66	0.68	0.02	0	0	0	0	0	0	0	0
10/25/2024 12:25	14404	SSLA_T1	37	59	22	0.26	0.26	0	0	0	0	0	0	0	0	0
10/25/2024 12:25	59201	THOM_T1	112	112	0	0.61	0.64	0.03	0	0	0	0	0	0	0	0
10/25/2024 12:25	44904	SCOT_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/25/2024 12:25	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/25/2024 12:25	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 12:26	43103	SMIL_T2	14	27	13	0.46	0.66	0.2	0	0	0	0	0	0	0	0
10/25/2024 12:26	67605	WARW_T1	33	40	7	0.58	0.58	0	-1.19	-1.19	0	0	0	0	0	0
10/25/2024 12:26	43101	SMIL_T2	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/25/2024 12:26	43104	SMIL_T2	4	4	0	0.63	1.03	0.4	0	0	0	0	0	0	0	0
10/25/2024 12:26	43105	SMIL_T2	5	10	5	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
10/25/2024 12:26	67603	WARW_T1	3	4	1	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
10/25/2024 12:26	43102	SMIL_T2	6	7	1	0.7	0.64	-0.06	-0.83	-0.8	1	1	0	600	600	0
10/25/2024 12:27	67603	WARW_T1	3	4	1	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
10/25/2024 12:27	59201	THOM_T1	112	112	0	0.61	0.64	0.03	0	0	0	0	0	0	0	0
10/25/2024 12:27	59202	THOM_T1	897	904	7	0.66	0.68	0.02	0	0	0	0	0	0	0	0
10/25/2024 12:27	10801	CHHI_T1	2	6	4	0.25	0.37	0.12	-0.85	-0.93	1	1	0	900	900	0
10/25/2024 12:27	67605	WARW_T1	33	40	7	0.58	0.58	0	-1.19	-1.19	0	0	0	0	0	0
10/25/2024 12:27	43402	BENT_T1	8	11	3	0.68	0.55	-0.13	-0.81	-0.78	1	1	0	900	900	0
10/25/2024 12:27	55105	WERT_T1	2	5	3	0.65	0.36	-0.29	-0.69	-0.7	1	1	0	900	900	0
10/25/2024 12:27	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/25/2024 12:28	48902	FOSP_T2	1	4	3	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
10/25/2024 12:28	10801	CHHI_T1	2	6	4	0.25	0.37	0.12	-0.85	-0.93	1	1	0	900	900	0
10/25/2024 12:28	48901	FOSP_T2	1	3	2	0.4	0.23	-0.17	-0.02	-0.04	1	1	0	600	600	0
10/25/2024 12:29	48902	FOSP_T2	1	4	3	0.4	0.35	-0.05	0.25	0.26	0	0	0	0	0	0
10/25/2024 12:29	48901	FOSP_T2	1	3	2	0.4	0.23	-0.17	-0.02	-0.04	1	1	0	600	600	0
10/25/2024 12:30	24104	EHAZ_T1	0	1	1	0	0.1	0.1	-0.85	-0.86	1	1	0	1200	1200	0
10/25/2024 12:30	48901	FOSP_T2	0	1	1	0	0.5	0.5	-0.02	-0.04	1	1	0	600	600	0
10/25/2024 12:30	24101	EHAZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/25/2024 12:30	48902	FOSP_T2	0	2	2	0	0.55	0.55	0.25	0.26	0	0	0	0	0	0
10/25/2024 12:30	24105	EHAZ_T1	0	4	4	0	6.43	6.43	0	0	0	0	0	0	0	0
10/25/2024 12:31	48901	FOSP_T2	3	1	-2	0.23	0.6	0.37	-0.04	-0.08	2	2	0	1200	1200	0
10/25/2024 12:31	48902	FOSP_T2	4	2	-2	0.35	0.55	0.2	0	0	0	0	0	0	0	0
10/25/2024 12:32	57106	SPHI_T2	4	6	2	1.38	1.07	-0.31	0	0	0	0	0	0	0	0
10/25/2024 12:32	48901	FOSP_T2	3	1	-2	0.23	0.6	0.37	-0.02	-0.04	1	1	0	600	600	0
10/25/2024 12:32	57103	SPHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/25/2024 12:32	48902	FOSP_T2	4	2	-2	0.35	0.55	0.2	0	0	0	0	0	0	0	0
10/25/2024 12:32	57104	SPHI_T2	6	6	0	0.65	0.6	-0.05	-0.43	-0.51	0	0	0	0	0	0
10/25/2024 12:32	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/25/2024 12:32	57101	SPHI_T2	7	6	-1	1.1	1.38	0.28	0	0	0	0	0	0	0	0
10/25/2024 12:33	25402	LAHA_T2	0	0	0	0	0	0	-0.31	-0.28	0	0	0	0	0	0
10/25/2024 12:35	23001	SAJO_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
10/25/2024 12:35	23002	SAJO_T1	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
10/25/2024 12:35	59301	MCAL_T1	33	10	-23	0.45	0.73	0.28	-1.18	-1.16	0	0	0	0	0	0
10/25/2024 12:35	59302	MCAL_T1	4	1	-3	0.45	0.8	0.35	0	0	0	0	0	0	0	0
10/25/2024 12:37	13701	SCHN_T2	6	9	3	0.28	0.34	0.06	0	0	0	0	0	0	0	0
10/25/2024 12:37	59301	MCAL_T1	33	10	-23	0.45	0.73	0.28	-1.16	-1.17	0	0	0	0	0	0
10/25/2024 12:37	67103	SPRI_T1	0	0	0	0	0	0	0.49	0.52	0	0	0	0	0	0
10/25/2024 12:37	13704	SCHN_T2	1	2	1	0.3	0.25	-0.05	-0.34	-0.36	0	0	0	0	0	0
10/25/2024 12:37	59302	MCAL_T1	4	1	-3	0.45	0.8	0.35	0	0	0	0	0	0	0	0
10/25/2024 12:38	59301	MCAL_T1	33	10	-23	0.45	0.73	0.28	-1.16	-1.17	0	0	0	0	0	0
10/25/2024 12:38	43108	SMIL_T2	0	0	0	0	0	0	-0.92	-0.83	1	1	0	1200	1200	0
10/25/2024 12:38	13701	SCHN_T2	6	9	3	0.28	0.34	0.06	-0.11	-0.14	1	1	0	600	600	0
10/25/2024 12:38	43102	SMIL_T2	6	7	1	0.67	0.69	0.02	0	0	0	0	0	0	0	0
10/25/2024 12:38	43103	SMIL_T2	19	26	7	0.43	0.83	0.4	0	0	0	0	0	0	0	0
10/25/2024 12:38	59302	MCAL_T1	4	1	-3	0.45	0.8	0.35	0	0	0	0	0	0	0	0
10/25/2024 12:38	13704	SCHN_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
10/25/2024 12:38	43101	SMIL_T2	2	1	-1	0.3	0.9	0.6	0	0	0	0	0	0	0	0
10/25/2024 12:38	43105	SMIL_T2	6	10	4	0.42	0.33	-0.09	0	0	0	0	0	0	0	0
10/25/2024 12:38	24202	PROV_T4	10	13	3	0.43	0.29	-0.14	0	0	1	1	0	1200	1200	0
10/25/2024 12:38	43104	SMIL_T2	4	4	0	0.9	1.03	0.13	0	0	0	0	0	0	0	0
10/25/2024 12:39	13701	SCHN_T2	6	9	3	0.28	0.34	0.06	-0.11	-0.14	1	1	0	600	600	0
10/25/2024 12:39	14802	TREI_T2	21	29	8	0.26	0.31	0.05	0	0	0	0	0	0	0	0
10/25/2024 12:39	42701	AUGU_T1	4	5	1	0.55	0.62	0.07	0	0	4	4	0	3600	3600	0
10/25/2024 12:39	13704	SCHN_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
10/25/2024 12:39	14801	TREI_T2	77	100	23	0.28	0.33	0.05	0.28	0.3	0	0	0	0	0	0
10/25/2024 12:40	43103	SMIL_T2	19	26	7	0.43	0.83	0.4	0	0	0	0	0	0	0	0
10/25/2024 12:40	45902	AUBU_T1	4	3	-1	0.58	0.57	-0.01	0.35	0.39	1	1	0	600	600	0
10/25/2024 12:40	43105	SMIL_T2	6	10	4	0.42	0.33	-0.09	0	0	0	0	0	0	0	0
10/25/2024 12:40	16102	BING_T2	7	7	0	0.59	0.53	-0.06	0	0	0	0	0	0	0	0
10/25/2024 12:40	43104	SMIL_T2	4	4	0	0.9	1.03	0.13	-0.84	-0.82	1	1	0	300	300	0
10/25/2024 12:40	45901	AUBU_T1	0	0	0	0	0	0	0.89	0.87	0	0	0	0	0	0
10/25/2024 12:40	43102	SMIL_T2	6	7	1	0.67	0.69	0.02	0	0	0	0	0	0	0	0
10/25/2024 12:40	16103	BING_T2	1	2	1	0.8	0.9	0.1	0	0	0	0	0	0	0	0
10/25/2024 12:40	16101	BING_T2	3	3	0	0.6	0.87	0.27	0.29	0.32	0	0	0	0	0	0
10/25/2024 12:40	42701	AUGU_T1	4	5	1	0.55	0.62	0.07	0	0	2	2	0	1800	1800	0
10/25/2024 12:40	43101	SMIL_T2	2	1	-1	0.3	0.9	0.6	0	0	0	0	0	0	0	0
10/25/2024 12:40	64602	LEOL_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
10/25/2024 12:41	48902	FOSP_T2	4	2	-2	0.35	0.55	0.2	0	0	0	0	0	0	0	0
10/25/2024 12:41	59202	THOM_T1	832	870	38	0.68	0.6	-0.08	0	0	0	0	0	0	0	0
10/25/2024 12:41	46005	BERW_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/25/2024 12:41	46001	BERW_T1	4	7	3	0.4	0.41	0.01	0.62	0.59	0	0	0	0	0	0
10/25/2024 12:41	14801	TREI_T2	77	100	23	0.28	0.33	0.05	0	0	0	0	0	0	0	0
10/25/2024 12:41	60801	BUCK_T1	4	7	3	0.38	0.31	-0.07	-0.22	-0.18	0	0	0	0	0	0
10/25/2024 12:41	60803	BUCK_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/25/2024 12:41	59201	THOM_T1	111	97	-14	0.64	0.58	-0.06	0	0	0	0	0	0	0	0
10/25/2024 12:41	14802	TREI_T2	21	29	8	0.26	0.31	0.05	0.38	0.31	0	0	0	0	0	0
10/25/2024 12:41	48901	FOSP_T2	3	1	-2	0.23	0.6	0.37	-0.04	-0.02	1	1	0	600	600	0
10/25/2024 12:42	66703	STRA_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
10/25/2024 12:43	11301	EMMA_T1	0	0	0	0	0	0	-0.89	-0.85	0	0	0	0	0	0
10/25/2024 12:43	42701	AUGU_T1	4	5	1	0.55	0.62	0.07	0	0	2	2	0	1800	1800	0
10/25/2024 12:43	11302	EMMA_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/25/2024 12:43	60801	BUCK_T1	4	7	3	0.38	0.31	-0.07	-0.22	-0.18	0	0	0	0	0	0
10/25/2024 12:43	60803	BUCK_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/25/2024 12:43	11303	EMMA_T1	4	5	1	0.83	0.83	0	0	0	0	0	0	0	0	0
10/25/2024 12:43	45902	AUBU_T1	4	3	-1	0.58	0.57	-0.01	0.35	0.39	1	1	0	600	600	0
10/25/2024 12:44	42701	AUGU_T1	4	5	1	0.55	0.62	0.07	0	0	2	2	0	1800	1800	0
10/25/2024 12:44	44801	EDAN_T2	2	3	1	1.15	0.83	-0.32	-0.47	-0.47	0	0	0	0	0	0
10/25/2024 12:45	46004	BERW_T2	1	3	2	0.2	0.23	0.03	-0.78	-0.79	0	0	0	0	0	0
10/25/2024 12:45	46002	BERW_T2	1	1	0	0.1	0.2	0.1	-0.76	-0.74	1	1	0	900	900	0
10/25/2024 12:46	45801	HEGI_T1	2	2	0	0.2	0.15	-0.05	-0.37	-0.37	1	1	0	900	900	0
10/25/2024 12:48	25502	MADI_T1	2	3	1	0.65	0.77	0.12	0	0	0	0	0	0	0	0
10/25/2024 12:48	25501	MADI_T1	3	3	0	0.53	0.83	0.3	0	0	0	0	0	0	0	0
10/25/2024 12:48	25503	MADI_T1	0	2	2	0	0.6	0.6	-1.12	-1	0	0	0	0	0	0
10/25/2024 12:51	59301	MCAL_T1	10	9	-1	0.73	0.71	-0.02	-1.16	-1.17	0	0	0	0	0	0
10/25/2024 12:51	59302	MCAL_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
10/25/2024 12:52	15601	NSTR_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
10/25/2024 12:52	58402	MORO_T1	1	0	-1	0.4	0	-0.4	0.33	0.45	1	1	0	900	900	0
10/25/2024 12:52	15603	NSTR_T2	1	1	0	1	1	0	-0.66	-0.66	0	0	0	0	0	0
10/25/2024 12:52	58401	MORO_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/25/2024 12:53	43101	SMIL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
10/25/2024 12:53	64305	LINC_T1	1	1	0	0.4	0.3	-0.1	-0.15	-0.1	0	0	0	0	0	0
10/25/2024 12:53	43105	SMIL_T2	10	8	-2	0.33	0.39	0.06	0	0	0	0	0	0	0	0
10/25/2024 12:53	43103	SMIL_T2	24	27	3	0.72	0.92	0.2	0	0	0	0	0	0	0	0
10/25/2024 12:53	43102	SMIL_T2	7	8	1	0.64	0.73	0.09	0	0	0	0	0	0	0	0
10/25/2024 12:53	13106	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/25/2024 12:53	43104	SMIL_T2	4	4	0	1	1.03	0.03	0	0	0	0	0	0	0	0
10/25/2024 12:54	14802	TREI_T2	24	32	8	0.32	0.3	-0.02	0.31	0.34	0	0	0	0	0	0
10/25/2024 12:54	14801	TREI_T2	94	102	8	0.3	0.33	0.03	0	0	0	0	0	0	0	0
10/25/2024 12:55	20403	ASHF_T2	27	109	82	0.47	0.39	-0.08	0.15	0.16	0	0	0	0	0	0
10/25/2024 12:55	20401	ASHF_T2	48	84	36	0.25	0.28	0.03	0	0	0	0	0	0	0	0
10/25/2024 12:55	20402	ASHF_T2	1	5	4	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
10/25/2024 12:56	57203	ROSS_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
10/25/2024 12:56	20401	ASHF_T2	48	84	36	0.25	0.28	0.03	0	0	0	0	0	0	0	0
10/25/2024 12:56	44802	EDAN_T2	0	0	0	0	0	0	-0.88	-0.84	0	0	0	0	0	0
10/25/2024 12:56	14801	TREI_T2	94	102	8	0.3	0.33	0.03	0	0	0	0	0	0	0	0
10/25/2024 12:56	57201	ROSS_T1	2	3	1	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
10/25/2024 12:56	14802	TREI_T2	24	32	8	0.32	0.3	-0.02	0.31	0.34	0	0	0	0	0	0
10/25/2024 12:56	57205	ROSS_T1	2	3	1	1.4	1.17	-0.23	0	0	0	0	0	0	0	0
10/25/2024 12:56	20403	ASHF_T2	27	109	82	0.47	0.39	-0.08	0.15	0.16	0	0	0	0	0	0
10/25/2024 12:56	44801	EDAN_T2	2	3	1	1	0.83	-0.17	0	0	0	0	0	0	0	0
10/25/2024 12:56	20402	ASHF_T2	1	5	4	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
10/25/2024 12:57	44801	EDAN_T2	2	3	1	1	0.83	-0.17	0	0	0	0	0	0	0	0
10/25/2024 12:57	17802	GILB_T1	6	6	0	0.78	0.9	0.12	0.06	0.05	0	0	0	0	0	0
10/25/2024 12:57	44802	EDAN_T2	0	0	0	0	0	0	-0.88	-0.84	0	0	0	0	0	0
10/25/2024 12:58	63501	HEID_TBK1-2	2	3	1	0.25	0.4	0.15	0.66	0.64	0	0	0	0	0	0
10/25/2024 12:58	20401	ASHF_T2	48	84	36	0.25	0.28	0.03	-0.38	-0.32	0	0	0	0	0	0
10/25/2024 12:58	44801	EDAN_T2	2	3	1	1	0.83	-0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/25/2024 12:58	44802	EDAN_T2	0	0	0	0	0	0	-1.76	-1.68	0	0	0	0	0	0
10/25/2024 12:58	20403	ASHF_T2	27	109	82	0.47	0.39	-0.08	0.15	0.16	0	0	0	0	0	0
10/25/2024 12:58	20402	ASHF_T2	1	5	4	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
10/25/2024 13:00	44801	EDAN_T2	3	4	1	0.83	0.65	-0.18	0	0	0	0	0	0	0	0
10/25/2024 13:00	44802	EDAN_T2	0	1	1	0	0.1	0.1	-1.76	-1.68	0	0	0	0	0	0
10/25/2024 13:01	46004	BERW_T2	3	3	0	0.23	0.4	0.17	-0.79	-0.7	0	0	0	0	0	0
10/25/2024 13:01	63501	HEID_TBK1-2	3	4	1	0.37	0.73	0.36	1.33	1.28	0	0	0	0	0	0
10/25/2024 13:01	54505	ENOL_T2	2	3	1	1.2	0.93	-0.27	0	0	0	0	0	0	0	0
10/25/2024 13:01	54504	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
10/25/2024 13:01	54506	ENOL_T2	0	0	0	0	0	0	0.52	0.5	1	1	0	600	600	0
10/25/2024 13:01	46002	BERW_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/25/2024 13:01	54501	ENOL_T2	4	4	0	0.28	0.35	0.07	0	0	0	0	0	0	0	0
10/25/2024 13:01	54502	ENOL_T2	2	4	2	0.35	0.35	0	0	0	0	0	0	0	0	0
10/25/2024 13:03	14203	EALL_T1	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/25/2024 13:03	14201	EALL_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
10/25/2024 13:04	54206	PENN_T2	2	2	0	0.15	0.3	0.15	0	0.03	0	0	0	0	0	0
10/25/2024 13:04	54203	PENN_T1	21	22	1	1.09	1.12	0.03	1.01	1.06	0	0	0	0	0	0
10/25/2024 13:04	54201	PENN_T1	11	12	1	0.8	0.76	-0.04	0	0	0	0	0	0	0	0
10/25/2024 13:04	54202	PENN_T2	4	4	0	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
10/25/2024 13:05	54202	PENN_T2	4	4	0	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
10/25/2024 13:05	13701	SCHN_T2	9	12	3	0.34	0.36	0.02	0	0	0	0	0	0	0	0
10/25/2024 13:05	55001	NEWP_T1	5	27	22	0.56	0.34	-0.22	0	0	0	0	0	0	0	0
10/25/2024 13:05	13704	SCHN_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
10/25/2024 13:05	54206	PENN_T2	2	2	0	0.15	0.3	0.15	0	0.03	0	0	0	0	0	0
10/25/2024 13:05	55002	NEWP_T1	12	12	0	0.65	0.87	0.22	-0.2	-0.2	0	0	0	0	0	0
10/25/2024 13:06	54601	SUMM_T2	13	14	1	0.84	0.88	0.04	-3.27	-3.24	1	1	0	1200	1200	0
10/25/2024 13:06	50701	SMEC_T1	10	10	0	0.65	0.63	-0.02	0.22	0.18	0	0	0	0	0	0
10/25/2024 13:06	54602	SUMM_T2	16	17	1	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
10/25/2024 13:06	54201	PENN_T1	11	12	1	0.8	0.76	-0.04	0	0	0	0	0	0	0	0
10/25/2024 13:06	54203	PENN_T1	21	22	1	1.09	1.12	0.03	0	0	0	0	0	0	0	0
10/25/2024 13:07	54601	SUMM_T2	13	14	1	0.84	0.88	0.04	-3.24	-3.21	1	1	0	1200	1200	0
10/25/2024 13:07	55002	NEWP_T1	12	12	0	0.65	0.87	0.22	-0.2	-0.22	0	0	0	0	0	0
10/25/2024 13:07	40603	PIGR_T1	2	3	1	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
10/25/2024 13:07	40601	PIGR_T1	145	177	32	0.55	0.7	0.15	0	0	0	0	0	0	0	0
10/25/2024 13:07	40602	PIGR_T1	2	4	2	0.7	0.25	-0.45	-0.14	-0.15	1	1	0	600	600	0
10/25/2024 13:07	54701	NEBL_T1	9	10	1	0.98	0.94	-0.04	0	0	0	0	0	0	0	0
10/25/2024 13:07	55001	NEWP_T1	5	27	22	0.56	0.34	-0.22	0	0	0	0	0	0	0	0
10/25/2024 13:07	54602	SUMM_T2	16	17	1	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
10/25/2024 13:08	13704	SCHN_T2	2	2	0	0.25	0.4	0.15	-0.34	-0.33	0	0	0	0	0	0
10/25/2024 13:08	54202	PENN_T2	4	4	0	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
10/25/2024 13:08	54701	NEBL_T1	9	10	1	0.98	0.94	-0.04	0	0	0	0	0	0	0	0
10/25/2024 13:08	54206	PENN_T2	2	2	0	0.15	0.3	0.15	0.03	0	0	0	0	0	0	0
10/25/2024 13:08	13701	SCHN_T2	9	12	3	0.34	0.36	0.02	0	0	0	0	0	0	0	0
10/25/2024 13:09	16103	BING_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
10/25/2024 13:09	16102	BING_T2	7	6	-1	0.53	0.6	0.07	0	0	0	0	0	0	0	0
10/25/2024 13:09	16101	BING_T2	1	2	1	0.7	0.45	-0.25	0.31	0.29	0	0	0	0	0	0
10/25/2024 13:09	54601	SUMM_T2	13	14	1	0.84	0.88	0.04	-6.47	-6.43	2	2	0	2400	2400	0
10/25/2024 13:09	54603	SUMM_T2	0	0	0	0	0	0	-0.32	-0.34	1	1	0	900	900	0
10/25/2024 13:09	54602	SUMM_T2	16	17	1	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
10/25/2024 13:10	40603	PIGR_T1	2	3	1	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
10/25/2024 13:10	54602	SUMM_T2	16	17	1	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
10/25/2024 13:10	14403	SSLA_T1	15	19	4	0.55	0.49	-0.06	0	0	0	0	0	0	0	0
10/25/2024 13:10	14401	SSLA_T1	24	28	4	0.44	0.46	0.02	-0.51	-0.51	0	0	0	0	0	0
10/25/2024 13:10	54601	SUMM_T2	13	14	1	0.84	0.88	0.04	-3.24	-3.21	1	1	0	1200	1200	0
10/25/2024 13:10	60102	COCA_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
10/25/2024 13:10	14402	SSLA_T1	61	125	64	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
10/25/2024 13:10	14404	SSLA_T1	34	61	27	0.24	0.24	0	0	0	0	0	0	0	0	0
10/25/2024 13:10	40601	PIGR_T1	145	177	32	0.55	0.7	0.15	0	0	0	0	0	0	0	0
10/25/2024 13:10	40602	PIGR_T1	2	4	2	0.7	0.25	-0.45	-0.28	-0.3	2	2	0	1200	1200	0
10/25/2024 13:10	60101	COCA_T1	8	9	1	0.41	0.36	-0.05	0.66	0.64	0	0	0	0	0	0
10/25/2024 13:11	54602	SUMM_T2	16	17	1	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
10/25/2024 13:11	50701	SMEC_T1	10	10	0	0.65	0.63	-0.02	0.18	0.24	0	0	0	0	0	0
10/25/2024 13:11	54603	SUMM_T2	0	0	0	0	0	0	-0.32	-0.34	1	1	0	900	900	0
10/25/2024 13:11	54601	SUMM_T2	13	14	1	0.84	0.88	0.04	0	0	0	0	0	0	0	0
10/25/2024 13:14	60101	COCA_T1	8	9	1	0.41	0.36	-0.05	0	0	0	0	0	0	0	0
10/25/2024 13:14	60102	COCA_T1	2	2	0	0.15	0.2	0.05	-0.57	-0.18	2	2	0	1200	1200	0
10/25/2024 13:15	46002	BERW_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
10/25/2024 13:15	60101	COCA_T1	5	10	5	0.44	0.34	-0.1	0.33	0.32	0	0	0	0	0	0
10/25/2024 13:15	46004	BERW_T2	2	2	0	0.55	0.45	-0.1	-0.7	-0.79	0	0	0	0	0	0
10/25/2024 13:15	60102	COCA_T1	1	2	1	0.3	0.4	0.1	-0.57	-0.18	2	2	0	1200	1200	0
10/25/2024 13:16	21901	HUMB_T1	3	3	0	0.3	0.2	-0.1	-0.93	-0.93	0	0	0	0	0	0
10/25/2024 13:18	22602	KIMB_T1	1	1	0	0.2	0.4	0.2	0.3	0.31	0	0	0	0	0	0
10/25/2024 13:18	22601	KIMB_T1	2	2	0	0.7	1	0.3	0	0	0	0	0	0	0	0
10/25/2024 13:19	13704	SCHN_T2	2	5	3	0.35	0.28	-0.07	-0.34	-0.33	0	0	0	0	0	0
10/25/2024 13:19	13701	SCHN_T2	7	19	12	0.31	0.38	0.07	0	0	0	0	0	0	0	0
10/25/2024 13:22	57205	ROSS_T1	3	3	0	1.13	1.17	0.04	0	0	0	0	0	0	0	0
10/25/2024 13:22	57203	ROSS_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
10/25/2024 13:22	57201	ROSS_T1	2	4	2	0.15	0.25	0.1	0	0	0	0	0	0	0	0
10/25/2024 13:27	11302	EMMA_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/25/2024 13:27	11301	EMMA_T1	0	0	0	0	0	0	-0.75	-0.86	0	0	0	0	0	0
10/25/2024 13:27	14403	SSLA_T1	12	27	15	0.53	0.41	-0.12	0	0	0	0	0	0	0	0
10/25/2024 13:27	14402	SSLA_T1	80	206	126	0.25	0.25	0	0	0	0	0	0	0	0	0
10/25/2024 13:27	11303	EMMA_T1	4	5	1	0.65	0.78	0.13	0	0	0	0	0	0	0	0
10/25/2024 13:27	14401	SSLA_T1	22	76	54	0.46	0.31	-0.15	0	0	0	0	0	0	0	0
10/25/2024 13:27	14404	SSLA_T1	32	171	139	0.27	0.22	-0.05	-0.03	-0.06	0	0	0	0	0	0
10/25/2024 13:31	46802	HEPB_T1	7	3	-4	0.49	0.33	-0.16	-0.33	-0.36	0	0	0	0	0	0
10/25/2024 13:32	52006	LING_T2	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
10/25/2024 13:32	52002	LING_T2	3	4	1	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
10/25/2024 13:32	52004	LING_T2	10	11	1	2.01	1.98	-0.03	0.24	0.23	0	0	0	0	0	0
10/25/2024 13:33	52006	LING_T2	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
10/25/2024 13:33	52004	LING_T2	10	11	1	2.01	1.98	-0.03	0.24	0.23	0	0	0	0	0	0
10/25/2024 13:33	52002	LING_T2	3	4	1	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
10/25/2024 13:33	52001	LING_T1	0	1	1	0	0.1	0.1	0.16	0.16	0	0	0	0	0	0
10/25/2024 13:33	54701	NEBL_T1	10	10	0	0.94	1.01	0.07	0	0	0	0	0	0	0	0
10/25/2024 13:33	52003	LING_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/25/2024 13:34	65601	QVIL_T2	2	3	1	0.35	0.27	-0.08	-1.18	-1.27	1	1	0	900	900	0
10/25/2024 13:34	65602	QVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/25/2024 13:34	55002	NEWP_T1	12	12	0	0.87	0.99	0.12	0	0	0	0	0	0	0	0
10/25/2024 13:34	55001	NEWP_T1	26	38	12	0.34	0.33	-0.01	-0.26	-0.27	0	0	0	0	0	0
10/25/2024 13:35	54001	SDLE_T1	173	290	117	0.32	0.34	0.02	0	0	0	0	0	0	0	0
10/25/2024 13:36	13704	SCHN_T2	1	5	4	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
10/25/2024 13:36	52006	LING_T2	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
10/25/2024 13:36	55002	NEWP_T1	12	12	0	0.87	0.99	0.12	0	0	0	0	0	0	0	0
10/25/2024 13:36	54001	SDLE_T1	173	290	117	0.32	0.34	0.02	0	0	0	0	0	0	0	0
10/25/2024 13:36	13701	SCHN_T2	12	19	7	0.36	0.4	0.04	-0.11	-0.09	1	1	0	600	600	0
10/25/2024 13:36	55001	NEWP_T1	26	38	12	0.34	0.33	-0.01	-0.26	-0.27	0	0	0	0	0	0
10/25/2024 13:36	52002	LING_T2	3	4	1	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
10/25/2024 13:36	52004	LING_T2	10	11	1	2.01	1.98	-0.03	0.24	0.23	0	0	0	0	0	0
10/25/2024 13:37	55002	NEWP_T1	12	12	0	0.87	0.99	0.12	-0.23	-0.22	0	0	0	0	0	0
10/25/2024 13:37	54001	SDLE_T1	173	290	117	0.32	0.34	0.02	0	0	0	0	0	0	0	0
10/25/2024 13:37	55001	NEWP_T1	26	38	12	0.34	0.33	-0.01	-0.27	-0.24	0	0	0	0	0	0
10/25/2024 13:38	54001	SDLE_T1	173	290	117	0.32	0.34	0.02	0	0	0	0	0	0	0	0
10/25/2024 13:41	14801	TREI_T2	101	173	72	0.32	0.34	0.02	0	0	0	0	0	0	0	0
10/25/2024 13:41	14802	TREI_T2	35	64	29	0.31	0.3	-0.01	0.39	0.36	0	0	0	0	0	0
10/25/2024 13:42	14802	TREI_T2	35	64	29	0.31	0.3	-0.01	0.39	0.36	0	0	0	0	0	0
10/25/2024 13:42	42201	SHEN_T2	5	5	0	0.38	0.58	0.2	0.35	0.33	0	0	0	0	0	0
10/25/2024 13:42	14801	TREI_T2	101	173	72	0.32	0.34	0.02	0	0	0	0	0	0	0	0
10/25/2024 13:43	54001	SDLE_T1	173	290	117	0.32	0.34	0.02	0	0	0	0	0	0	0	0
10/25/2024 13:44	54001	SDLE_T1	173	290	117	0.32	0.34	0.02	0	0	0	0	0	0	0	0
10/25/2024 13:45	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
10/25/2024 13:45	17802	GILB_T1	6	8	2	0.93	0.75	-0.18	0.07	0.08	0	0	0	0	0	0
10/25/2024 13:45	23201	HIRU_T2	0	7	7	0	0.27	0.27	0	0	0	0	0	0	0	0
10/25/2024 13:46	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
10/25/2024 13:46	23201	HIRU_T2	4	9	5	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
10/25/2024 13:46	26704	HEML_T2	27	37	10	0.13	0.17	0.04	-0.83	-0.81	1	1	0	1200	1200	0
10/25/2024 13:47	23201	HIRU_T2	4	9	5	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
10/25/2024 13:47	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
10/25/2024 13:48	46101	MACI_T2	0	0	0	0	0	0	0.2	0.2	1	1	0	1200	1200	0
10/25/2024 13:48	65005	NEFF_T2	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
10/25/2024 13:48	65003	NEFF_T2	8	58	50	0.51	0.19	-0.32	0	0	0	0	0	0	0	0
10/25/2024 13:48	65002	NEFF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/25/2024 13:48	65004	NEFF_T2	2	2	0	0.5	0.5	0	-0.54	-0.53	0	0	0	0	0	0
10/25/2024 13:50	21206	ECAR_T2	1	1	0	7.9	8.1	0.2	0.1	0.02	0	0	0	0	0	0
10/25/2024 13:50	58401	MORO_T1	3	2	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/25/2024 13:50	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 13:50	58402	MORO_T1	3	2	-1	0.37	0.55	0.18	0	0	0	0	0	0	0	0
10/25/2024 13:52	46506	LOHA_T1	4	4	0	4.83	4.8	-0.03	0	0	0	0	0	0	0	0
10/25/2024 13:52	46504	LOHA_T1	28	13	-15	0.18	0.33	0.15	0	0	0	0	0	0	0	0
10/25/2024 13:52	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
10/25/2024 13:54	51306	WIND_T2	0	3	3	0	0.15	0.15	0.1	0.04	0	0	0	0	0	0
10/25/2024 13:54	51303	WIND_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/25/2024 13:54	51304	WIND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 13:54	51305	WIND_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
10/25/2024 13:54	51301	WIND_T1	3	3	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
10/25/2024 13:57	15001	BLMO_T1	7	7	0	0.7	0.59	-0.11	0	0	0	0	0	0	0	0
10/25/2024 13:58	15001	BLMO_T1	7	7	0	0.7	0.59	-0.11	0	0	0	0	0	0	0	0
10/25/2024 13:58	11202	ELHE_T2	0	0	0	0	0	0	0.43	0.46	1	1	0	1200	1200	0
10/25/2024 14:01	64704	LITI_T1	1	0	-1	0.1	0	-0.1	0.38	0.26	1	1	0	600	600	0
10/25/2024 14:04	64704	LITI_T1	1	0	-1	0.1	0	-0.1	0.38	0.26	1	1	0	600	600	0
10/25/2024 14:06	64802	MONE_T2	183	148	-35	0.18	0.17	-0.01	0.2	0.18	0	0	0	0	0	0
10/25/2024 14:06	64801	MONE_T2	6	2	-4	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
10/25/2024 14:07	64802	MONE_T2	183	148	-35	0.18	0.17	-0.01	0.2	0.18	0	0	0	0	0	0
10/25/2024 14:07	64801	MONE_T2	6	2	-4	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
10/25/2024 14:09	55001	NEWP_T1	38	10	-28	0.33	0.39	0.06	0	0	0	0	0	0	0	0
10/25/2024 14:09	24603	VARD_T2	9	9	0	0.77	0.83	0.06	0	0	0	0	0	0	0	0
10/25/2024 14:09	66504	SMAN_T2	3	2	-1	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
10/25/2024 14:09	55002	NEWP_T1	12	11	-1	0.93	0.85	-0.08	-0.21	-0.22	0	0	0	0	0	0
10/25/2024 14:09	66501	SMAN_T2	2	2	0	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
10/25/2024 14:09	24602	VARD_T2	1	2	1	1.6	0.85	-0.75	0	0	0	0	0	0	0	0
10/25/2024 14:09	66502	SMAN_T2	7	4	-3	0.41	0.58	0.17	0.15	0.26	0	0	0	0	0	0
10/25/2024 14:09	11601	CEAL_T1	1	1	0	0.5	0.5	0	0	0	1	1	0	1200	1200	0
10/25/2024 14:09	11603	CEAL_T1	1	1	0	9	0	-9	0	0	0	0	0	0	0	0
10/25/2024 14:10	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/25/2024 14:10	66502	SMAN_T2	7	4	-3	0.41	0.58	0.17	0	0	0	0	0	0	0	0
10/25/2024 14:10	66501	SMAN_T2	2	2	0	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
10/25/2024 14:10	66504	SMAN_T2	3	2	-1	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
10/25/2024 14:12	46002	BERW_T2	3	4	1	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
10/25/2024 14:12	46004	BERW_T2	3	3	0	0.3	0.4	0.1	-0.75	-0.74	0	0	0	0	0	0
10/25/2024 14:16	28701	HAML_T2	3	3	0	0.43	0.23	-0.2	0	0	0	0	0	0	0	0
10/25/2024 14:16	28703	HAML_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/25/2024 14:16	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/25/2024 14:17	44801	EDAN_T2	2	2	0	0.95	0.95	0	-0.48	-0.53	0	0	0	0	0	0
10/25/2024 14:19	13303	ORVI_T1	1	3	2	0.1	0.53	0.43	1.05	1	0	0	0	0	0	0
10/25/2024 14:22	16504	STRO_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
10/25/2024 14:23	67502	WEWI_T2	30	33	3	0.29	0.24	-0.05	0	0	0	0	0	0	0	0
10/25/2024 14:23	67503	WEWI_T2	3	3	0	3.27	3.17	-0.1	-0.31	-0.27	0	0	0	0	0	0
10/25/2024 14:24	10702	CATA_T2	2	2	0	0.55	0.6	0.05	-0.8	-0.8	0	0	0	0	0	0
10/25/2024 14:24	10701	CATA_T2	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/25/2024 14:24	10707	CATA_T2	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
10/25/2024 14:24	10705	CATA_T2	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
10/25/2024 14:25	10707	CATA_T2	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
10/25/2024 14:25	15001	BLMO_T1	6	5	-1	0.48	0.86	0.38	0	0	0	0	0	0	0	0
10/25/2024 14:25	10705	CATA_T2	1	1	0	1.8	1.6	-0.2	0	0.01	0	0	0	0	0	0
10/25/2024 14:25	16504	STRO_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
10/25/2024 14:25	10701	CATA_T2	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/25/2024 14:25	10702	CATA_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
10/25/2024 14:26	10707	CATA_T2	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
10/25/2024 14:26	55002	NEWP_T1	11	11	0	0.84	0.84	0	0	0	0	0	0	0	0	0
10/25/2024 14:26	10705	CATA_T2	1	1	0	1.8	1.6	-0.2	0	0.01	0	0	0	0	0	0
10/25/2024 14:26	55001	NEWP_T1	10	7	-3	0.39	0.47	0.08	-0.27	-0.25	0	0	0	0	0	0
10/25/2024 14:26	10701	CATA_T2	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/25/2024 14:26	54001	SDLE_T1	134	131	-3	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
10/25/2024 14:26	10702	CATA_T2	2	2	0	0.55	0.6	0.05	-0.8	-0.8	0	0	0	0	0	0
10/25/2024 14:27	10707	CATA_T2	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
10/25/2024 14:27	10705	CATA_T2	1	1	0	1.8	1.6	-0.2	0	0.01	0	0	0	0	0	0
10/25/2024 14:27	67502	WEWI_T2	30	33	3	0.29	0.24	-0.05	-0.39	-0.46	0	0	0	0	0	0
10/25/2024 14:27	10701	CATA_T2	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/25/2024 14:27	67503	WEWI_T2	3	3	0	3.27	3.17	-0.1	0	0	0	0	0	0	0	0
10/25/2024 14:27	10702	CATA_T2	2	2	0	0.55	0.6	0.05	-0.8	-0.8	0	0	0	0	0	0
10/25/2024 14:28	10701	CATA_T2	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/25/2024 14:28	67502	WEWI_T2	30	33	3	0.29	0.24	-0.05	-0.39	-0.46	0	0	0	0	0	0
10/25/2024 14:28	10702	CATA_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
10/25/2024 14:28	10707	CATA_T2	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
10/25/2024 14:28	10705	CATA_T2	1	1	0	1.8	1.6	-0.2	0	0.01	0	0	0	0	0	0
10/25/2024 14:28	15001	BLMO_T1	6	5	-1	0.48	0.86	0.38	0	0	0	0	0	0	0	0
10/25/2024 14:28	67503	WEWI_T2	3	3	0	3.27	3.17	-0.1	0	0	0	0	0	0	0	0
10/25/2024 14:29	10707	CATA_T2	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
10/25/2024 14:29	10705	CATA_T2	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
10/25/2024 14:29	10701	CATA_T2	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/25/2024 14:29	10702	CATA_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
10/25/2024 14:30	10701	CATA_T2	3	1	-2	0.4	0.5	0.1	-0.54	-0.55	1	1	0	1200	1200	0
10/25/2024 14:30	10705	CATA_T2	1	1	0	1	1.6	0.6	0	0.02	0	0	0	0	0	0
10/25/2024 14:30	10702	CATA_T2	2	2	0	0.55	0.55	0	-0.8	-0.8	0	0	0	0	0	0
10/25/2024 14:30	10707	CATA_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
10/25/2024 14:36	42203	SHEN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 14:36	42202	SHEN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/25/2024 14:36	42201	SHEN_T2	7	6	-1	0.63	0.82	0.19	0.38	0.35	0	0	0	0	0	0
10/25/2024 14:38	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 14:40	42203	SHEN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 14:40	67602	WARW_T2	0	0	0	0	0	0	2.95	2.86	2	2	0	600	600	0
10/25/2024 14:40	42201	SHEN_T2	7	6	-1	0.63	0.82	0.19	0.35	0.37	0	0	0	0	0	0
10/25/2024 14:40	42202	SHEN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/25/2024 14:44	67602	WARW_T2	0	0	0	0	0	0	1.48	1.43	1	1	0	300	300	0
10/25/2024 14:50	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 14:50	55105	WERT_T1	1	1	0	0.2	0.2	0	-0.75	-0.77	1	1	0	900	900	0
10/25/2024 14:53	54203	PENN_T1	19	19	0	1.06	1.17	0.11	1.12	1.1	0	0	0	0	0	0
10/25/2024 14:53	54201	PENN_T1	10	10	0	0.79	0.97	0.18	0	0	0	0	0	0	0	0
10/25/2024 14:55	46506	LOHA_T1	4	4	0	4.4	4.53	0.13	0	0	0	0	0	0	0	0
10/25/2024 14:55	46504	LOHA_T1	3	30	27	0.93	0.23	-0.7	0	0	0	0	0	0	0	0
10/25/2024 14:55	46503	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/25/2024 14:55	46501	LOHA_T1	0	0	0	0	0	0	0.07	0.06	1	1	0	1200	1200	0
10/25/2024 14:58	41301	FISH_T1	3	3	0	1.63	1.83	0.2	0.36	0.37	0	0	0	0	0	0
10/25/2024 14:58	41305	FISH_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/25/2024 14:59	24702	FLND_T2	2	2	0	0.4	0.2	-0.2	0.23	1.2	0	0	0	0	0	0
10/25/2024 15:00	10705	CATA_T2	1	1	0	1.4	2.1	0.7	0.03	0	0	0	0	0	0	0
10/25/2024 15:00	10701	CATA_T2	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/25/2024 15:00	10702	CATA_T2	2	1	-1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/25/2024 15:00	10707	CATA_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
10/25/2024 15:02	41301	FISH_T1	3	3	0	1.8	1.77	-0.03	0	0	0	0	0	0	0	0
10/25/2024 15:02	41305	FISH_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/25/2024 15:04	44203	POIN_T2	0	0	0	0	0	0	-0.67	0.34	2	1	-1	2100	900	-1200
10/25/2024 15:05	44201	POIN_T1	253	341	88	0.24	0.25	0.01	-2.02	-2.02	2	2	0	2100	2100	0
10/25/2024 15:05	43504	WWIL_T1	14	14	0	0.49	0.67	0.18	0.6	0.59	0	0	0	0	0	0
10/25/2024 15:05	43506	WWIL_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 15:05	58401	MORO_T1	1	1	0	0.2	0.1	-0.1	-1.14	-1.14	1	1	0	600	600	0
10/25/2024 15:05	43505	WWIL_T1	1	1	0	2.5	2.6	0.1	0	0	0	0	0	0	0	0
10/25/2024 15:06	44201	POIN_T1	253	341	88	0.24	0.25	0.01	-2.02	-2	2	2	0	2100	2100	0
10/25/2024 15:07	58401	MORO_T1	1	1	0	0.2	0.1	-0.1	-1.14	-1.08	1	1	0	600	600	0
10/25/2024 15:07	44201	POIN_T1	253	341	88	0.24	0.25	0.01	-2.02	-2	2	2	0	2100	2100	0
10/25/2024 15:08	55002	NEWP_T1	10	9	-1	0.65	0.67	0.02	0	0	0	0	0	0	0	0
10/25/2024 15:08	44203	POIN_T2	0	0	0	0	0	0	1.35	2.47	4	4	0	3600	3600	0
10/25/2024 15:08	44201	POIN_T1	253	341	88	0.24	0.25	0.01	-8.09	-7.99	8	8	0	8400	8400	0
10/25/2024 15:08	55001	NEWP_T1	7	38	31	0.29	0.24	-0.05	0	0	0	0	0	0	0	0
10/25/2024 15:09	55002	NEWP_T1	10	9	-1	0.65	0.67	0.02	0	0	0	0	0	0	0	0
10/25/2024 15:09	55001	NEWP_T1	7	38	31	0.29	0.24	-0.05	-0.31	-0.32	0	0	0	0	0	0
10/25/2024 15:14	23401	HONE_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
10/25/2024 15:15	63801	HEMP_T1	2	3	1	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
10/25/2024 15:15	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
10/25/2024 15:15	63803	HEMP_T1	5	3	-2	0.3	0.4	0.1	0.14	0.14	0	0	0	0	0	0
10/25/2024 15:17	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
10/25/2024 15:17	63801	HEMP_T1	2	3	1	0.7	0.3	-0.4	0.66	0.12	0	0	0	0	0	0
10/25/2024 15:17	63802	HEMP_T1	0	0	0	0	0	0	-0.64	-0.67	0	0	0	0	0	0
10/25/2024 15:17	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 15:17	63803	HEMP_T1	5	3	-2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/25/2024 15:18	63803	HEMP_T1	5	3	-2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/25/2024 15:18	63804	HEMP_T1	1	1	0	5.8	5.8	0	0.96	0.94	0	0	0	0	0	0
10/25/2024 15:18	63802	HEMP_T1	0	0	0	0	0	0	-0.64	-0.67	0	0	0	0	0	0
10/25/2024 15:18	63801	HEMP_T1	2	3	1	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
10/25/2024 15:18	40601	PIGR_T1	177	187	10	0.5	0.57	0.07	0	0	0	0	0	0	0	0
10/25/2024 15:18	40602	PIGR_T1	2	1	-1	0.3	0.8	0.5	0	0	0	0	0	0	0	0
10/25/2024 15:18	40603	PIGR_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/25/2024 15:20	24201	PROV_T3	1	1	0	6.9	7.1	0.2	0	0	1	1	0	1200	1200	0
10/25/2024 15:20	24204	PROV_T3	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
10/25/2024 15:22	57403	SPAN_T1	134	110	-24	0.31	0.28	-0.03	-0.05	-0.04	0	0	0	0	0	0
10/25/2024 15:22	57401	SPAN_T1	2	2	0	1	0.85	-0.15	0	0	0	0	0	0	0	0
10/25/2024 15:23	55101	WERT_T1	0	0	0	0	0	0	-0.68	-0.58	1	1	0	600	600	0
10/25/2024 15:24	45601	WOOL_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 15:24	60101	COCA_T1	2	1	-1	0.3	0.4	0.1	0.31	0.36	0	0	0	0	0	0
10/25/2024 15:24	60102	COCA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 15:24	45602	WOOL_T1	103	94	-9	0.26	0.26	0	0.47	0.48	0	0	0	0	0	0
10/25/2024 15:26	45602	WOOL_T1	103	94	-9	0.26	0.26	0	0.47	0.48	0	0	0	0	0	0
10/25/2024 15:26	45601	WOOL_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 15:27	45602	WOOL_T1	103	94	-9	0.26	0.26	0	0.47	0.48	0	0	0	0	0	0
10/25/2024 15:27	10602	BLGL_T2	2	3	1	0.35	0.73	0.38	0.29	0.15	0	0	0	0	0	0
10/25/2024 15:27	45601	WOOL_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 15:28	45602	WOOL_T1	103	94	-9	0.26	0.26	0	0.47	0.48	0	0	0	0	0	0
10/25/2024 15:28	45601	WOOL_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 15:29	45602	WOOL_T1	103	94	-9	0.26	0.26	0	0.47	0.48	0	0	0	0	0	0
10/25/2024 15:29	45601	WOOL_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 15:30	10805	CHHI_T2	2	1	-1	4	7.8	3.8	-1.17	-1.2	1	1	0	600	600	0
10/25/2024 15:31	46602	LACR_T1	2	12	10	0.2	0.15	-0.05	-1.09	-1.01	0	0	0	0	0	0
10/25/2024 15:32	52006	LING_T2	2	2	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
10/25/2024 15:32	52002	LING_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
10/25/2024 15:32	52004	LING_T2	8	5	-3	2.15	3.12	0.97	0.27	0.09	0	0	0	0	0	0
10/25/2024 15:34	52006	LING_T2	2	2	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
10/25/2024 15:34	52002	LING_T2	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
10/25/2024 15:34	52004	LING_T2	8	5	-3	2.15	3.12	0.97	0.27	0.09	0	0	0	0	0	0
10/25/2024 15:34	59402	RFLD_T2	1	0	-1	0.1	0	-0.1	-0.71	-0.26	1	0	-1	450	0	-450
10/25/2024 15:35	46506	LOHA_T1	4	4	0	4.3	4.83	0.53	0	0	0	0	0	0	0	0
10/25/2024 15:35	46504	LOHA_T1	3	5	2	0.73	0.6	-0.13	0	0	0	0	0	0	0	0
10/25/2024 15:35	46505	LOHA_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
10/25/2024 15:36	46506	LOHA_T1	4	4	0	4.3	4.83	0.53	0	0	0	0	0	0	0	0
10/25/2024 15:36	46502	LOHA_T1	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
10/25/2024 15:36	46504	LOHA_T1	3	5	2	0.73	0.6	-0.13	0	0	0	0	0	0	0	0
10/25/2024 15:38	13302	ORVI_T2	3	3	0	0.43	0.27	-0.16	1.35	1.39	0	0	0	0	0	0
10/25/2024 15:38	67401	WAKE_T2	6	27	21	0.2	0.14	-0.06	-1.04	-1.07	0	0	0	0	0	0
10/25/2024 15:40	57201	ROSS_T1	0	8	8	0	0.16	0.16	-0.47	-0.58	0	0	0	0	0	0
10/25/2024 15:40	67401	WAKE_T2	6	27	21	0.2	0.14	-0.06	-1.04	-1.07	0	0	0	0	0	0
10/25/2024 15:40	57205	ROSS_T1	3	3	0	0.47	0.37	-0.1	0	0	0	0	0	0	0	0
10/25/2024 15:42	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
10/25/2024 15:42	67401	WAKE_T2	6	27	21	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
10/25/2024 15:48	20802	LOPO_T1	1	1	0	0.3	0.2	-0.1	-0.59	-0.59	1	1	0	600	600	0
10/25/2024 15:50	24105	EHAZ_T1	4	4	0	6.2	6.05	-0.15	0	0	0	0	0	0	0	0
10/25/2024 15:50	24104	EHAZ_T1	0	0	0	0	0	0	-0.84	-0.88	1	1	0	1200	1200	0
10/25/2024 15:54	55002	NEWP_T1	7	6	-1	0.53	0.63	0.1	0	0	0	0	0	0	0	0
10/25/2024 15:54	55001	NEWP_T1	24	2	-22	0.2	0.25	0.05	-0.27	-0.22	0	0	0	0	0	0
10/25/2024 16:03	64204	KINZ_T1	65	21	-44	0.45	0.27	-0.18	0	0	0	0	0	0	0	0
10/25/2024 16:03	64203	KINZ_T1	0	0	0	0	0	0	0.31	-0.05	1	1	0	600	600	0
10/25/2024 16:03	45702	LIND_T2	77	58	-19	0.23	0.2	-0.03	-0.61	-0.62	0	0	0	0	0	0
10/25/2024 16:03	64202	KINZ_T1	3	0	-3	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/25/2024 16:03	64201	KINZ_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
10/25/2024 16:04	64202	KINZ_T1	3	0	-3	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/25/2024 16:04	64201	KINZ_T1	1	1	0	1.1	1.2	0.1	0.56	0.58	1	1	0	300	300	0
10/25/2024 16:04	64204	KINZ_T1	65	21	-44	0.45	0.27	-0.18	0	0	0	0	0	0	0	0
10/25/2024 16:05	59402	RFLD_T2	0	2	2	0	0.1	0.1	-0.6	-0.68	0	0	0	0	0	0
10/25/2024 16:06	65601	QVIL_T2	2	2	0	0.25	0.15	-0.1	-1.19	-1.22	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/25/2024 16:07	59402	RFLD_T2	0	2	2	0	0.1	0.1	-0.34	-0.4	0	0	0	0	0	0
10/25/2024 16:10	57205	ROSS_T1	3	1	-2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/25/2024 16:10	64302	LINC_T2	0	0	0	0	0	0	1.11	1.16	0	0	0	0	0	0
10/25/2024 16:10	57201	ROSS_T1	8	0	-8	0.16	0	-0.16	-0.82	-0.74	0	0	0	0	0	0
10/25/2024 16:13	15703	TANN_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
10/25/2024 16:13	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.44	0	0	0	0	0	0
10/25/2024 16:14	57201	ROSS_T1	8	0	-8	0.16	0	-0.16	0	0	0	0	0	0	0	0
10/25/2024 16:14	57205	ROSS_T1	3	1	-2	0.3	0.2	-0.1	0.16	0.17	0	0	0	0	0	0
10/25/2024 16:15	60803	BUCK_T1	9	3	-6	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
10/25/2024 16:15	60801	BUCK_T1	22	9	-13	0.17	0.18	0.01	-0.2	-0.21	0	0	0	0	0	0
10/25/2024 16:16	60801	BUCK_T1	22	9	-13	0.17	0.18	0.01	0	0	0	0	0	0	0	0
10/25/2024 16:16	60803	BUCK_T1	9	3	-6	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
10/25/2024 16:24	44202	POIN_T2	0	1	1	0	0.9	0.9	-1.07	-1.02	1	1	0	1200	1200	0
10/25/2024 16:28	24801	VALM_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
10/25/2024 16:28	17803	GILB_T2	3	3	0	0.17	0.2	0.03	0	0	0	0	0	0	0	0
10/25/2024 16:28	17805	GILB_T2	1	2	1	0.1	0.2	0.1	-0.18	-0.21	0	0	0	0	0	0
10/25/2024 16:28	17804	GILB_T2	12	18	6	0.13	0.18	0.05	0	0	0	0	0	0	0	0
10/25/2024 16:32	17804	GILB_T2	18	4	-14	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
10/25/2024 16:32	17803	GILB_T2	3	1	-2	0.2	0.2	0	0	0	0	0	0	0	0	0
10/25/2024 16:32	17805	GILB_T2	2	0	-2	0.2	0	-0.2	-0.18	-0.21	0	0	0	0	0	0
10/25/2024 16:34	44702	MUNC_T2	12	30	18	0.18	0.29	0.11	0	0	0	0	0	0	0	0
10/25/2024 16:34	43202	MVIL_T2	62	41	-21	0.47	0.17	-0.3	-0.72	-0.71	0	0	0	0	0	0
10/25/2024 16:34	44703	MUNC_T2	2	2	0	1.5	1.75	0.25	0	0	0	0	0	0	0	0
10/25/2024 16:34	44701	MUNC_T2	33	373	340	0.18	0.36	0.18	0	0	0	0	0	0	0	0
10/25/2024 16:36	65601	QVIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/25/2024 16:36	44701	MUNC_T2	33	373	340	0.18	0.36	0.18	0	0	0	0	0	0	0	0
10/25/2024 16:36	43202	MVIL_T2	62	41	-21	0.47	0.17	-0.3	-0.71	-0.72	0	0	0	0	0	0
10/25/2024 16:36	44703	MUNC_T2	2	2	0	1.5	1.75	0.25	0	0	0	0	0	0	0	0
10/25/2024 16:36	65603	QVIL_T2	0	0	0	0	0	0	0.22	0.17	0	0	0	0	0	0
10/25/2024 16:36	44702	MUNC_T2	12	30	18	0.18	0.29	0.11	0	0	0	0	0	0	0	0
10/25/2024 16:37	44703	MUNC_T2	2	2	0	1.5	1.75	0.25	0.75	0.7	0	0	0	0	0	0
10/25/2024 16:37	44202	POIN_T2	1	0	-1	0.9	0	-0.9	-1.02	-0.91	1	1	0	1200	1200	0
10/25/2024 16:37	44701	MUNC_T2	33	373	340	0.18	0.36	0.18	0	0	0	0	0	0	0	0
10/25/2024 16:37	44702	MUNC_T2	12	30	18	0.18	0.29	0.11	0	0	0	0	0	0	0	0
10/25/2024 16:39	55102	WERT_T2	0	0	0	0	0	0	-0.72	-0.71	1	1	0	600	600	0
10/25/2024 16:40	17902	BART_T2	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
10/25/2024 16:40	55102	WERT_T2	0	0	0	0	0	0	-0.72	-0.71	1	1	0	600	600	0
10/25/2024 16:41	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 16:41	10105	ALLE_T3	0	13	13	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 16:41	10101	ALLE_T3	1	1	0	2.4	2	-0.4	0	0	0	0	0	0	0	0
10/25/2024 16:45	64701	LITI_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
10/25/2024 16:47	63803	HEMP_T1	0	3	3	0	0.13	0.13	0.15	0.14	0	0	0	0	0	0
10/25/2024 16:47	63804	HEMP_T1	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
10/25/2024 16:55	14802	TREI_T2	13	16	3	0.25	0.24	-0.01	0.31	0.31	0	0	0	0	0	0
10/25/2024 16:55	14801	TREI_T2	78	69	-9	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
10/25/2024 16:56	10205	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 16:56	10101	ALLE_T3	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
10/25/2024 16:56	10105	ALLE_T3	0	13	13	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 16:59	66903	SHIL_T2	0	0	0	0	0	0	-0.94	-0.92	0	0	0	0	0	0
10/25/2024 17:06	44202	POIN_T2	0	0	0	0	0	0	-0.86	-0.25	1	1	0	1200	1200	0
10/25/2024 17:12	46001	BERW_T1	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
10/25/2024 17:13	46001	BERW_T1	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
10/25/2024 17:16	52006	LING_T2	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
10/25/2024 17:16	52002	LING_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
10/25/2024 17:16	52004	LING_T2	2	3	1	6.1	4.33	-1.77	0.04	0	0	0	0	0	0	0
10/25/2024 17:17	52004	LING_T2	2	3	1	6.1	4.33	-1.77	0	0	0	0	0	0	0	0
10/25/2024 17:17	52002	LING_T2	1	0	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
10/25/2024 17:17	52006	LING_T2	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
10/25/2024 17:18	52001	LING_T1	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
10/25/2024 17:19	52006	LING_T2	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
10/25/2024 17:19	52004	LING_T2	2	3	1	6.1	4.33	-1.77	0.04	0	0	0	0	0	0	0
10/25/2024 17:19	52002	LING_T2	1	0	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
10/25/2024 17:21	24105	EHAZ_T1	4	4	0	6.13	6.15	0.02	0	0	0	0	0	0	0	0
10/25/2024 17:21	24104	EHAZ_T1	0	0	0	0	0	0	-0.88	-0.91	1	1	0	1200	1200	0
10/25/2024 17:29	20601	GRWO_T2	0	6	6	0	0.17	0.17	0	0	0	0	0	0	0	0
10/25/2024 17:29	20603	GRWO_T2	5	22	17	0.1	0.25	0.15	0.33	0.32	0	0	0	0	0	0
10/25/2024 17:30	28102	TWLA_T2	2	2	0	0.15	0.15	0	0.17	0.18	0	0	0	0	0	0
10/25/2024 17:48	50623	CCTY_T2	5	5	0	5.98	5.52	-0.46	0	0	0	0	0	0	0	0
10/25/2024 17:48	50624	CCTY_T2	2	2	0	5.85	5.85	0	0	0	0	0	0	0	0	0
10/25/2024 17:48	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 17:48	50625	CCTY_T2	5	5	0	2.7	2.78	0.08	0	0	0	0	0	0	0	0
10/25/2024 17:56	57401	SPAN_T1	2	2	0	1.65	1.3	-0.35	-0.02	0.24	0	0	0	0	0	0
10/25/2024 17:56	57403	SPAN_T1	159	163	4	0.6	0.6	0	0	0	0	0	0	0	0	0
10/25/2024 19:19	54502	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/25/2024 19:19	54505	ENOL_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
10/25/2024 19:19	54501	ENOL_T2	2	4	2	0.2	0.28	0.08	0	0	0	0	0	0	0	0
10/25/2024 19:19	54506	ENOL_T2	0	0	0	0	0	0	0.58	0.54	1	1	0	600	600	0
10/25/2024 19:30	59402	RFLD_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
10/25/2024 19:53	59302	MCAL_T1	2	2	0	1.2	1.35	0.15	0	0	0	0	0	0	0	0
10/25/2024 19:53	59301	MCAL_T1	47	61	14	0.28	0.34	0.06	-1.31	-1.32	0	0	0	0	0	0
10/25/2024 19:53	46602	LACR_T1	21	23	2	0.2	0.2	0	-1.05	-1.06	0	0	0	0	0	0
10/25/2024 19:57	44701	MUNC_T2	20	118	98	0.14	0.2	0.06	0	0	0	0	0	0	0	0
10/25/2024 19:57	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/25/2024 19:57	44703	MUNC_T2	2	2	0	1.15	1.4	0.25	0.65	0.63	0	0	0	0	0	0
10/25/2024 19:57	28701	HAML_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 19:57	28702	HAML_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 19:57	28703	HAML_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/25/2024 19:57	44702	MUNC_T2	7	18	11	0.11	0.18	0.07	0	0	0	0	0	0	0	0
10/25/2024 19:58	44203	POIN_T2	0	0	0	0	0	0	0.1	0.15	1	1	0	900	900	0
10/25/2024 19:58	59301	MCAL_T1	47	61	14	0.28	0.34	0.06	-1.31	-1.32	0	0	0	0	0	0
10/25/2024 19:58	59302	MCAL_T1	2	2	0	1.2	1.35	0.15	0	0	0	0	0	0	0	0
10/25/2024 19:59	26704	HEML_T2	0	0	0	0	0	0	-0.86	-0.87	1	1	0	1200	1200	0
10/25/2024 20:00	43202	MVIL_T2	12	20	8	0.15	0.18	0.03	-0.74	-0.72	0	0	0	0	0	0
10/25/2024 20:00	26703	HEML_T1	0	0	0	0	0	0	-0.91	-0.92	1	1	0	600	600	0
10/25/2024 20:00	59302	MCAL_T1	2	2	0	1.3	1.55	0.25	0	0	0	0	0	0	0	0
10/25/2024 20:01	59301	MCAL_T1	54	79	25	0.28	0.45	0.17	-1.31	-1.32	0	0	0	0	0	0
10/25/2024 20:01	44701	MUNC_T2	112	162	50	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/25/2024 20:01	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:01	24602	VARD_T2	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:01	44703	MUNC_T2	2	2	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:01	44802	EDAN_T2	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
10/25/2024 20:01	44702	MUNC_T2	18	11	-7	0.18	0.12	-0.06	0	0	0	0	0	0	0	0
10/25/2024 20:01	24603	VARD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:02	44201	POIN_T1	447	483	36	0.3	0.31	0.01	-4.22	-4.23	4	4	0	4200	4200	0
10/25/2024 20:02	44901	SCOT_T2	0	0	0	0	0	0	-0.27	-0.26	0	0	0	0	0	0
10/25/2024 20:02	44802	EDAN_T2	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
10/25/2024 20:02	44203	POIN_T2	0	0	0	0	0	0	0.1	0.15	1	1	0	900	900	0
10/25/2024 20:02	45501	DERR_T2	1	1	0	0.3	0.5	0.2	-0.59	-0.55	2	2	0	1800	1800	0
10/25/2024 20:02	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:02	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:03	26002	WDAM_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/25/2024 20:03	43103	SMIL_T2	20	10	-10	0.44	0.58	0.14	0	0	0	0	0	0	0	0
10/25/2024 20:03	26001	WDAM_T1	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
10/25/2024 20:03	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/25/2024 20:03	59201	THOM_T1	153	173	20	0.69	0.86	0.17	0	0	0	0	0	0	0	0
10/25/2024 20:03	48902	FOSP_T2	25	26	1	0.26	0.27	0.01	0	0	0	0	0	0	0	0
10/25/2024 20:03	43102	SMIL_T2	8	6	-2	0.69	0.87	0.18	-0.32	-0.34	0	0	0	0	0	0
10/25/2024 20:03	23401	HONE_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
10/25/2024 20:03	48901	FOSP_T2	7	10	3	0.33	0.2	-0.13	0.21	0.22	0	0	0	0	0	0
10/25/2024 20:03	43105	SMIL_T2	15	17	2	0.21	0.25	0.04	0	0	0	0	0	0	0	0
10/25/2024 20:03	59202	THOM_T1	658	719	61	0.98	1.2	0.22	0	0	0	0	0	0	0	0
10/25/2024 20:03	43108	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:04	45902	AUBU_T1	0	0	0	0	0	0	-0.04	-0.03	1	1	0	600	600	0
10/25/2024 20:04	44703	MUNC_T2	2	2	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:04	43202	MVIL_T2	12	20	8	0.15	0.18	0.03	-0.74	-0.72	0	0	0	0	0	0
10/25/2024 20:04	44702	MUNC_T2	18	11	-7	0.18	0.12	-0.06	0	0	0	0	0	0	0	0
10/25/2024 20:04	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
10/25/2024 20:04	44701	MUNC_T2	112	162	50	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/25/2024 20:04	24202	PROV_T4	1	1	0	2	0	-2	0	0	1	1	0	1200	1200	0
10/25/2024 20:04	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
10/25/2024 20:05	40603	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:05	54601	SUMM_T2	11	13	2	0.92	1.01	0.09	-3.35	-3.32	1	1	0	1200	1200	0
10/25/2024 20:05	42201	SHEN_T2	4	4	0	0.58	0.63	0.05	0.36	0.33	0	0	0	0	0	0
10/25/2024 20:05	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.41	0	0	0	0	0	0
10/25/2024 20:05	40601	PIGR_T1	238	241	3	0.49	0.71	0.22	0	0	0	0	0	0	0	0
10/25/2024 20:05	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
10/25/2024 20:05	40602	PIGR_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
10/25/2024 20:05	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:05	54603	SUMM_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/25/2024 20:05	44201	POIN_T1	447	483	36	0.3	0.31	0.01	-2.11	-2.12	2	2	0	2100	2100	0
10/25/2024 20:05	10101	ALLE_T3	1	1	0	1.2	3.7	2.5	0	0	0	0	0	0	0	0
10/25/2024 20:05	24201	PROV_T3	1	1	0	6.4	6.4	0	0	0	1	1	0	1200	1200	0
10/25/2024 20:05	13303	ORVI_T1	0	0	0	0	0	0	0.74	0.8	0	0	0	0	0	0
10/25/2024 20:05	10602	BLGL_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
10/25/2024 20:05	54602	SUMM_T2	16	16	0	0.65	0.99	0.34	0	0	0	0	0	0	0	0
10/25/2024 20:05	41902	REED_T1	0	0	0	0	0	0	0.89	0.88	0	0	0	0	0	0
10/25/2024 20:05	44802	EDAN_T2	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
10/25/2024 20:05	23203	HIRU_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
10/25/2024 20:05	42204	SHEN_T2	29	43	14	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/25/2024 20:05	24204	PROV_T3	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
10/25/2024 20:05	42203	SHEN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:05	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:06	25402	LAHA_T2	0	0	0	0	0	0	-0.89	-0.85	0	0	0	0	0	0
10/25/2024 20:06	46001	BERW_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
10/25/2024 20:06	45901	AUBU_T1	0	0	0	0	0	0	1.05	1.05	0	0	0	0	0	0
10/25/2024 20:06	16504	STRO_T1	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
10/25/2024 20:06	65003	NEFF_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/25/2024 20:06	44904	SCOT_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
10/25/2024 20:06	52002	LING_T2	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
10/25/2024 20:06	41902	REED_T1	0	0	0	0	0	0	0.89	0.88	0	0	0	0	0	0
10/25/2024 20:06	20802	LOPO_T1	0	1	1	0	0.1	0.1	-0.57	-0.57	1	1	0	600	600	0
10/25/2024 20:06	10705	CATA_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
10/25/2024 20:06	59402	RFLD_T2	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/25/2024 20:06	52004	LING_T2	2	3	1	6.55	4.57	-1.98	0.09	0.09	0	0	0	0	0	0
10/25/2024 20:06	16102	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/25/2024 20:06	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
10/25/2024 20:06	64302	LINC_T2	0	0	0	0	0	0	0.9	0.88	0	0	0	0	0	0
10/25/2024 20:06	10702	CATA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/25/2024 20:06	16101	BING_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
10/25/2024 20:06	48902	FOSP_T2	25	26	1	0.26	0.27	0.01	-0.07	-0.05	0	0	0	0	0	0
10/25/2024 20:06	44902	SCOT_T2	0	0	0	0	0	0	-0.92	-0.95	0	0	0	0	0	0
10/25/2024 20:06	48901	FOSP_T2	7	10	3	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
10/25/2024 20:06	46004	BERW_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/25/2024 20:06	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:06	65001	NEFF_T2	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
10/25/2024 20:06	52006	LING_T2	2	2	0	1.25	1.5	0.25	0	0	0	0	0	0	0	0
10/25/2024 20:06	46002	BERW_T2	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
10/25/2024 20:06	10101	ALLE_T3	1	1	0	1.2	3.7	2.5	0	0	0	0	0	0	0	0
10/25/2024 20:07	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.47	0	0	0	0	0	0
10/25/2024 20:07	10705	CATA_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
10/25/2024 20:07	24104	EHAZ_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	1200	1200	0
10/25/2024 20:07	10702	CATA_T2	1	1	0	0.3	0.2	-0.1	-0.99	-1	0	0	0	0	0	0
10/25/2024 20:07	43108	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:07	66903	SHIL_T2	0	0	0	0	0	0	-1.05	-1.06	0	0	0	0	0	0
10/25/2024 20:07	17802	GILB_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
10/25/2024 20:07	44902	SCOT_T2	0	0	0	0	0	0	-0.92	-0.95	0	0	0	0	0	0
10/25/2024 20:07	59202	THOM_T1	658	719	61	0.98	1.2	0.22	0	0	0	0	0	0	0	0
10/25/2024 20:07	44203	POIN_T2	0	0	0	0	0	0	0.15	0.17	1	1	0	900	900	0
10/25/2024 20:07	43105	SMIL_T2	15	17	2	0.21	0.25	0.04	0	0	0	0	0	0	0	0
10/25/2024 20:07	45501	DERR_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/25/2024 20:07	14801	TREI_T2	80	68	-12	0.17	0.18	0.01	0	0	0	0	0	0	0	0
10/25/2024 20:07	45801	HEGI_T1	0	0	0	0	0	0	-0.52	-0.46	1	1	0	900	900	0
10/25/2024 20:07	12606	MACA_T1	0	0	0	0	0	0	-0.42	-0.44	1	1	0	900	900	0
10/25/2024 20:07	63501	HEID_TBK1-2	35	36	1	0.36	0.36	0	0.44	0.33	0	0	0	0	0	0
10/25/2024 20:07	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:07	45502	DERR_T2	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
10/25/2024 20:07	57505	LAWN_T3	3	4	1	0.23	0.38	0.15	0	0	0	0	0	0	0	0
10/25/2024 20:07	10101	ALLE_T3	1	1	0	1.2	3.7	2.5	0	0	0	0	0	0	0	0
10/25/2024 20:07	66505	SMAN_T2	3	3	0	0.73	1.17	0.44	0	0	0	0	0	0	0	0
10/25/2024 20:07	44201	POIN_T1	447	483	36	0.3	0.31	0.01	-2.12	-2.06	2	2	0	2100	2100	0
10/25/2024 20:07	17902	BART_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
10/25/2024 20:07	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
10/25/2024 20:07	59201	THOM_T1	153	173	20	0.69	0.86	0.17	0	0	0	0	0	0	0	0
10/25/2024 20:07	43103	SMIL_T2	20	10	-10	0.44	0.58	0.14	-1.03	-1.04	0	0	0	0	0	0
10/25/2024 20:07	14802	TREI_T2	29	27	-2	0.2	0.18	-0.02	0.6	0.63	0	0	0	0	0	0
10/25/2024 20:07	48901	FOSP_T2	7	10	3	0.33	0.2	-0.13	0.44	0.44	0	0	0	0	0	0
10/25/2024 20:07	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:07	44901	SCOT_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
10/25/2024 20:07	48902	FOSP_T2	25	26	1	0.26	0.27	0.01	0	0	0	0	0	0	0	0
10/25/2024 20:07	43102	SMIL_T2	8	6	-2	0.69	0.87	0.18	-0.34	-0.35	0	0	0	0	0	0
10/25/2024 20:07	24105	EHAZ_T1	4	4	0	6.4	5.88	-0.52	0	0	0	0	0	0	0	0
10/25/2024 20:07	57502	LAWN_T3	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
10/25/2024 20:08	48901	FOSP_T2	7	10	3	0.33	0.2	-0.13	0.22	0.22	0	0	0	0	0	0
10/25/2024 20:08	55002	NEWP_T1	5	4	-1	0.46	0.88	0.42	-0.26	-0.27	0	0	0	0	0	0
10/25/2024 20:08	14801	TREI_T2	80	68	-12	0.17	0.18	0.01	0	0	0	0	0	0	0	0
10/25/2024 20:08	15203	SFAR_T2	0	0	0	0	0	0	-1.37	-1.38	0	0	0	0	0	0
10/25/2024 20:08	14403	SSLA_T1	10	9	-1	0.16	0.17	0.01	0	0	0	0	0	0	0	0
10/25/2024 20:08	23001	SAJO_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
10/25/2024 20:08	59202	THOM_T1	658	719	61	0.98	1.2	0.22	0	0	0	0	0	0	0	0
10/25/2024 20:08	23203	HIRU_T2	0	0	0	0	0	0	0.11	0.16	0	0	0	0	0	0
10/25/2024 20:08	65003	NEFF_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/25/2024 20:08	54701	NEBL_T1	7	7	0	0.63	0.93	0.3	0	0	0	0	0	0	0	0
10/25/2024 20:08	44802	EDAN_T2	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
10/25/2024 20:08	17802	GILB_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
10/25/2024 20:08	14802	TREI_T2	29	27	-2	0.2	0.18	-0.02	0.3	0.32	0	0	0	0	0	0
10/25/2024 20:08	40601	PIGR_T1	238	241	3	0.49	0.71	0.22	0	0	0	0	0	0	0	0
10/25/2024 20:08	48902	FOSP_T2	25	26	1	0.26	0.27	0.01	0	0	0	0	0	0	0	0
10/25/2024 20:08	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:08	24702	FLND_T2	0	0	0	0	0	0	0.13	0.04	1	1	0	1200	1200	0
10/25/2024 20:08	14401	SSLA_T1	8	8	0	0.3	0.3	0	-0.58	-0.58	0	0	0	0	0	0
10/25/2024 20:08	10705	CATA_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
10/25/2024 20:08	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/25/2024 20:08	14404	SSLA_T1	142	123	-19	0.16	0.18	0.02	-0.13	-0.04	0	0	0	0	0	0
10/25/2024 20:08	10805	CHHI_T2	1	1	0	8.3	8	-0.3	-0.95	-0.95	0	0	0	0	0	0
10/25/2024 20:08	14402	SSLA_T1	181	189	8	0.18	0.18	0	0	0	0	0	0	0	0	0
10/25/2024 20:08	40602	PIGR_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
10/25/2024 20:08	59201	THOM_T1	153	173	20	0.69	0.86	0.17	0	0	0	0	0	0	0	0
10/25/2024 20:08	65004	NEFF_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
10/25/2024 20:08	10702	CATA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/25/2024 20:09	60101	COCA_T1	0	0	0	0	0	0	0.16	0.22	0	0	0	0	0	0
10/25/2024 20:09	11301	EMMA_T1	0	0	0	0	0	0	-0.94	-0.92	0	0	0	0	0	0
10/25/2024 20:09	24105	EHAZ_T1	4	4	0	6.4	5.88	-0.52	0	0	0	0	0	0	0	0
10/25/2024 20:09	24204	PROV_T3	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
10/25/2024 20:09	20403	ASHF_T2	7	11	4	0.11	0.14	0.03	0.08	0.02	0	0	0	0	0	0
10/25/2024 20:09	43102	SMIL_T2	8	6	-2	0.69	0.87	0.18	0	0	0	0	0	0	0	0
10/25/2024 20:09	54601	SUMM_T2	11	13	2	0.92	1.01	0.09	-6.64	-6.73	2	2	0	2400	2400	0
10/25/2024 20:09	52004	LING_T2	2	3	1	6.55	4.57	-1.98	0.09	0.08	0	0	0	0	0	0
10/25/2024 20:09	11603	CEAL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:09	23203	HIRU_T2	0	0	0	0	0	0	0.11	0.16	0	0	0	0	0	0
10/25/2024 20:09	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.47	0	0	0	0	0	0
10/25/2024 20:09	54201	PENN_T1	11	12	1	0.9	0.92	0.02	0	0	0	0	0	0	0	0
10/25/2024 20:09	43108	SMIL_T2	0	1	1	0	0.1	0.1	-1.2	-1.21	1	1	0	1200	1200	0
10/25/2024 20:09	43103	SMIL_T2	20	10	-10	0.44	0.58	0.14	0	0	0	0	0	0	0	0
10/25/2024 20:09	54203	PENN_T1	18	18	0	1.55	1.67	0.12	0.88	0.89	0	0	0	0	0	0
10/25/2024 20:09	46004	BERW_T2	1	1	0	0.5	0	-0.5	-1.76	-1.6	0	0	0	0	0	0
10/25/2024 20:09	67503	WEWI_T2	4	1	-3	2.23	9	6.77	-0.31	-0.34	0	0	0	0	0	0
10/25/2024 20:09	20402	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/25/2024 20:09	44802	EDAN_T2	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
10/25/2024 20:09	52006	LING_T2	2	2	0	1.25	1.5	0.25	0	0	0	0	0	0	0	0
10/25/2024 20:09	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/25/2024 20:09	24104	EHAZ_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	1200	1200	0
10/25/2024 20:09	65503	MOJO_T2	303	342	39	0.24	0.27	0.03	-0.47	-0.45	0	0	0	0	0	0
10/25/2024 20:09	16504	STRO_T1	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
10/25/2024 20:09	65502	MOJO_T2	315	323	8	0.44	0.46	0.02	0	0	0	0	0	0	0	0
10/25/2024 20:09	20401	ASHF_T2	46	35	-11	0.22	0.26	0.04	0	0	0	0	0	0	0	0
10/25/2024 20:09	46001	BERW_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
10/25/2024 20:09	52002	LING_T2	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
10/25/2024 20:09	15703	TANN_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
10/25/2024 20:09	11202	ELHE_T2	0	0	0	0	0	0	0.42	0.39	1	1	0	1200	1200	0
10/25/2024 20:09	54602	SUMM_T2	16	16	0	0.65	0.99	0.34	0	0	0	0	0	0	0	0
10/25/2024 20:09	10702	CATA_T2	1	1	0	0.3	0.2	-0.1	-1.98	-2	0	0	0	0	0	0
10/25/2024 20:09	24201	PROV_T3	1	1	0	6.4	6.4	0	0	0	1	1	0	1200	1200	0
10/25/2024 20:09	59201	THOM_T1	153	173	20	0.69	0.86	0.17	0	0	0	0	0	0	0	0
10/25/2024 20:09	54603	SUMM_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/25/2024 20:09	59202	THOM_T1	658	719	61	0.98	1.2	0.22	0	0	0	0	0	0	0	0
10/25/2024 20:09	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
10/25/2024 20:09	67502	WEWI_T2	133	186	53	0.21	0.24	0.03	-0.55	-0.57	0	0	0	0	0	0
10/25/2024 20:09	43105	SMIL_T2	15	17	2	0.21	0.25	0.04	0	0	0	0	0	0	0	0
10/25/2024 20:09	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:09	44801	EDAN_T2	0	1	1	0	0	0	-0.54	-0.53	0	0	0	0	0	0
10/25/2024 20:10	10801	CHHI_T1	0	0	0	0	0	0	-1.05	-1.06	1	1	0	900	900	0
10/25/2024 20:10	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:10	14801	TREI_T2	80	68	-12	0.17	0.18	0.01	0.31	0.31	0	0	0	0	0	0
10/25/2024 20:10	40602	PIGR_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
10/25/2024 20:10	14404	SSLA_T1	142	123	-19	0.16	0.18	0.02	0	0	0	0	0	0	0	0
10/25/2024 20:10	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/25/2024 20:10	20201	IERM_T1	0	0	0	0	0	0	1.39	1.66	0	0	0	0	0	0
10/25/2024 20:10	44801	EDAN_T2	0	1	1	0	0	0	-0.54	-0.53	0	0	0	0	0	0
10/25/2024 20:10	16102	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/25/2024 20:10	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:10	14802	TREI_T2	29	27	-2	0.2	0.18	-0.02	0.3	0.32	0	0	0	0	0	0
10/25/2024 20:10	43103	SMIL_T2	20	10	-10	0.44	0.58	0.14	0	0	0	0	0	0	0	0
10/25/2024 20:10	46004	BERW_T2	1	1	0	0.5	0	-0.5	-0.88	-0.8	0	0	0	0	0	0
10/25/2024 20:10	13302	ORVI_T2	0	0	0	0	0	0	1.35	1.47	0	0	0	0	0	0
10/25/2024 20:10	59202	THOM_T1	658	719	61	0.98	1.2	0.22	0	0	0	0	0	0	0	0
10/25/2024 20:10	10702	CATA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/25/2024 20:10	40601	PIGR_T1	238	241	3	0.49	0.71	0.22	0	0	0	0	0	0	0	0
10/25/2024 20:10	10101	ALLE_T3	1	1	0	1.2	3.7	2.5	0	0	0	0	0	0	0	0
10/25/2024 20:10	64701	LITI_T1	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
10/25/2024 20:10	44202	POIN_T2	0	0	0	0	0	0	-0.9	-0.88	1	1	0	1200	1200	0
10/25/2024 20:10	59201	THOM_T1	153	173	20	0.69	0.86	0.17	0	0	0	0	0	0	0	0
10/25/2024 20:10	10701	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:10	16101	BING_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
10/25/2024 20:10	43102	SMIL_T2	8	6	-2	0.69	0.87	0.18	0	0	0	0	0	0	0	0
10/25/2024 20:10	14403	SSLA_T1	10	9	-1	0.16	0.17	0.01	0	0	0	0	0	0	0	0
10/25/2024 20:10	60101	COCA_T1	0	0	0	0	0	0	0.32	0.43	0	0	0	0	0	0
10/25/2024 20:10	43105	SMIL_T2	15	17	2	0.21	0.25	0.04	0	0	0	0	0	0	0	0
10/25/2024 20:10	14402	SSLA_T1	181	189	8	0.18	0.18	0	0	0	0	0	0	0	0	0
10/25/2024 20:10	43108	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:10	67605	WARW_T1	11	21	10	0.4	0.55	0.15	-1.25	-1.23	0	0	0	0	0	0
10/25/2024 20:10	14401	SSLA_T1	8	8	0	0.3	0.3	0	-1.74	-1.74	0	0	0	0	0	0
10/25/2024 20:11	20401	ASHF_T2	46	35	-11	0.22	0.26	0.04	0	0	0	0	0	0	0	0
10/25/2024 20:11	43105	SMIL_T2	15	17	2	0.21	0.25	0.04	0	0	0	0	0	0	0	0
10/25/2024 20:11	65602	QVIL_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/25/2024 20:11	14801	TREI_T2	80	68	-12	0.17	0.18	0.01	0.31	0.31	0	0	0	0	0	0
10/25/2024 20:11	64704	LITI_T1	0	0	0	0	0	0	0.66	0.59	0	0	0	0	0	0
10/25/2024 20:11	55001	NEWP_T1	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
10/25/2024 20:11	43103	SMIL_T2	20	10	-10	0.44	0.58	0.14	0	0	0	0	0	0	0	0
10/25/2024 20:11	50701	SMEC_T1	9	17	8	0.11	0.16	0.05	0.12	0.07	0	0	0	0	0	0
10/25/2024 20:11	14402	SSLA_T1	181	189	8	0.18	0.18	0	0	0	0	0	0	0	0	0
10/25/2024 20:11	14802	TREI_T2	29	27	-2	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
10/25/2024 20:11	54001	SDLE_T1	191	112	-79	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
10/25/2024 20:11	15001	BLMO_T1	3	4	1	0.77	0.6	-0.17	0	0	0	0	0	0	0	0
10/25/2024 20:11	14404	SSLA_T1	142	123	-19	0.16	0.18	0.02	-0.25	-0.07	0	0	0	0	0	0
10/25/2024 20:11	65603	QVIL_T2	3	21	18	0.13	0.11	-0.02	0.14	0.13	0	0	0	0	0	0
10/25/2024 20:11	14403	SSLA_T1	10	9	-1	0.16	0.17	0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/25/2024 20:11	20403	ASHF_T2	7	11	4	0.11	0.14	0.03	0.08	0.02	0	0	0	0	0	0
10/25/2024 20:11	43102	SMIL_T2	8	6	-2	0.69	0.87	0.18	-0.34	-0.35	0	0	0	0	0	0
10/25/2024 20:11	10702	CATA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/25/2024 20:11	65604	QVIL_T2	2	3	1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
10/25/2024 20:11	20402	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/25/2024 20:11	55002	NEWP_T1	5	4	-1	0.46	0.88	0.42	0	0	0	0	0	0	0	0
10/25/2024 20:11	44201	POIN_T1	447	483	36	0.3	0.31	0.01	-2.12	-2.06	2	2	0	2100	2100	0
10/25/2024 20:11	54203	PENN_T1	18	18	0	1.55	1.67	0.12	0	0	0	0	0	0	0	0
10/25/2024 20:11	54201	PENN_T1	11	12	1	0.9	0.92	0.02	0	0	0	0	0	0	0	0
10/25/2024 20:11	14401	SSLA_T1	8	8	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/25/2024 20:11	46004	BERW_T2	1	1	0	0.5	0	-0.5	-0.88	-0.8	0	0	0	0	0	0
10/25/2024 20:11	11904	ETEX_T2	0	0	0	0	0	0	0.16	0.2	0	0	0	0	0	0
10/25/2024 20:11	13701	SCHN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:11	43108	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:11	41902	REED_T1	0	0	0	0	0	0	2.64	2.38	0	0	0	0	0	0
10/25/2024 20:11	46001	BERW_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
10/25/2024 20:11	65601	QVIL_T2	50	63	13	0.15	0.17	0.02	0	0	0	0	0	0	0	0
10/25/2024 20:11	21901	HUMB_T1	0	0	0	0	0	0	-0.96	-0.97	0	0	0	0	0	0
10/25/2024 20:11	10705	CATA_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
10/25/2024 20:12	17804	GILB_T2	9	0	-9	0.12	0	-0.12	-0.59	-0.6	0	0	0	0	0	0
10/25/2024 20:12	42203	SHEN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:12	67503	WEWI_T2	4	1	-3	2.23	9	6.77	0	0	0	0	0	0	0	0
10/25/2024 20:12	24104	EHAZ_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	1200	1200	0
10/25/2024 20:12	14401	SSLA_T1	8	8	0	0.3	0.3	0	-0.58	-0.58	0	0	0	0	0	0
10/25/2024 20:12	11901	ETEX_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
10/25/2024 20:12	14802	TREI_T2	29	27	-2	0.2	0.18	-0.02	0.3	0.32	0	0	0	0	0	0
10/25/2024 20:12	40601	PIGR_T1	238	241	3	0.49	0.71	0.22	0	0	0	0	0	0	0	0
10/25/2024 20:12	42204	SHEN_T2	29	43	14	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/25/2024 20:12	42201	SHEN_T2	4	4	0	0.58	0.63	0.05	0.33	0.33	0	0	0	0	0	0
10/25/2024 20:12	67502	WEWI_T2	133	186	53	0.21	0.24	0.03	-0.55	-0.57	0	0	0	0	0	0
10/25/2024 20:12	67603	WARW_T1	0	0	0	0	0	0	-0.15	-0.13	0	0	0	0	0	0
10/25/2024 20:12	52004	LING_T2	2	3	1	6.55	4.57	-1.98	0.17	0.15	0	0	0	0	0	0
10/25/2024 20:12	60201	ATGL_T2	0	3	3	0	0.1	0.1	0.57	0.56	0	0	0	0	0	0
10/25/2024 20:12	40602	PIGR_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
10/25/2024 20:12	59202	THOM_T1	658	719	61	0.98	1.2	0.22	0	0	0	0	0	0	0	0
10/25/2024 20:12	64903	MILL_T2	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
10/25/2024 20:12	20601	GRWO_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/25/2024 20:12	14404	SSLA_T1	142	123	-19	0.16	0.18	0.02	0	0	0	0	0	0	0	0
10/25/2024 20:12	20603	GRWO_T2	7	9	2	0.13	0.11	-0.02	0.3	0.29	0	0	0	0	0	0
10/25/2024 20:12	64802	MONE_T2	244	177	-67	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
10/25/2024 20:12	24201	PROV_T3	1	1	0	6.4	6.4	0	0	0	1	1	0	1200	1200	0
10/25/2024 20:12	41301	FISH_T1	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
10/25/2024 20:12	66505	SMAN_T2	3	3	0	0.73	1.17	0.44	0	0	0	0	0	0	0	0
10/25/2024 20:12	15603	NSTR_T2	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
10/25/2024 20:12	44203	POIN_T2	0	0	0	0	0	0	0.15	0.17	1	1	0	900	900	0
10/25/2024 20:12	59301	MCAL_T1	54	79	25	0.28	0.45	0.17	-1.32	-1.3	0	0	0	0	0	0
10/25/2024 20:12	67605	WARW_T1	11	21	10	0.4	0.55	0.15	0	0	0	0	0	0	0	0
10/25/2024 20:12	59402	RFLD_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
10/25/2024 20:12	59302	MCAL_T1	2	2	0	1.3	1.55	0.25	0	0	0	0	0	0	0	0
10/25/2024 20:12	14402	SSLA_T1	181	189	8	0.18	0.18	0	0	0	0	0	0	0	0	0
10/25/2024 20:12	52002	LING_T2	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
10/25/2024 20:12	11904	ETEX_T2	0	0	0	0	0	0	0.16	0.2	0	0	0	0	0	0
10/25/2024 20:12	59201	THOM_T1	153	173	20	0.69	0.86	0.17	0	0	0	0	0	0	0	0
10/25/2024 20:12	14801	TREI_T2	80	68	-12	0.17	0.18	0.01	0	0	0	0	0	0	0	0
10/25/2024 20:12	52006	LING_T2	2	2	0	1.25	1.5	0.25	0	0	0	0	0	0	0	0
10/25/2024 20:12	64305	LINC_T1	0	2	2	0	0.2	0.2	-0.61	-0.59	0	0	0	0	0	0
10/25/2024 20:12	14403	SSLA_T1	10	9	-1	0.16	0.17	0.01	0	0	0	0	0	0	0	0
10/25/2024 20:12	66504	SMAN_T2	0	0	0	0	0	0	-1.46	-1.43	0	0	0	0	0	0
10/25/2024 20:12	24204	PROV_T3	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
10/25/2024 20:12	64801	MONE_T2	31	32	1	0.2	0.2	0	0.23	0.23	0	0	0	0	0	0
10/25/2024 20:12	24105	EHAZ_T1	4	4	0	6.4	5.88	-0.52	0	0	0	0	0	0	0	0
10/25/2024 20:12	13303	ORVI_T1	0	0	0	0	0	0	0.8	0.77	0	0	0	0	0	0
10/25/2024 20:13	48902	FOSP_T2	25	26	1	0.26	0.27	0.01	-0.05	-0.13	0	0	0	0	0	0
10/25/2024 20:13	44502	HAMI_T2	1	1	0	3.3	3.5	0.2	0	0	0	0	0	0	0	0
10/25/2024 20:13	43108	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:13	44505	HAMI_T2	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
10/25/2024 20:13	55101	WERT_T1	0	0	0	0	0	0	-1.32	-1.29	1	1	0	600	600	0
10/25/2024 20:13	43102	SMIL_T2	8	6	-2	0.69	0.87	0.18	0	0	0	0	0	0	0	0
10/25/2024 20:13	26002	WDAM_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/25/2024 20:13	60803	BUCK_T1	31	34	3	0.44	0.49	0.05	0	0	0	0	0	0	0	0
10/25/2024 20:13	14404	SSLA_T1	142	123	-19	0.16	0.18	0.02	-0.13	-0.04	0	0	0	0	0	0
10/25/2024 20:13	57203	ROSS_T1	7	18	11	0.1	0.1	0	0	0	0	0	0	0	0	0
10/25/2024 20:13	60102	COCA_T1	0	0	0	0	0	0	0.17	0.16	2	2	0	1200	1200	0
10/25/2024 20:13	43103	SMIL_T2	20	10	-10	0.44	0.58	0.14	-1.03	-1.04	0	0	0	0	0	0
10/25/2024 20:13	43104	SMIL_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
10/25/2024 20:13	17804	GILB_T2	9	0	-9	0.12	0	-0.12	0	0	0	0	0	0	0	0
10/25/2024 20:13	40903	JESH_T1	23	142	119	0.11	0.18	0.07	0	0	0	0	0	0	0	0
10/25/2024 20:13	43105	SMIL_T2	15	17	2	0.21	0.25	0.04	0	0	0	0	0	0	0	0
10/25/2024 20:13	57205	ROSS_T1	0	1	1	0	0.1	0.1	0.02	0.02	0	0	0	0	0	0
10/25/2024 20:13	22602	KIMB_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
10/25/2024 20:13	14403	SSLA_T1	10	9	-1	0.16	0.17	0.01	0	0	0	0	0	0	0	0
10/25/2024 20:13	10705	CATA_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
10/25/2024 20:13	65601	QVIL_T2	50	63	13	0.15	0.17	0.02	-0.29	-0.32	0	0	0	0	0	0
10/25/2024 20:13	41301	FISH_T1	2	2	0	1.3	1.3	0	0.4	0.37	0	0	0	0	0	0
10/25/2024 20:13	66505	SMAN_T2	3	3	0	0.73	1.17	0.44	-0.1	-0.13	1	1	0	900	900	0
10/25/2024 20:13	40602	PIGR_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
10/25/2024 20:13	57403	SPAN_T1	125	145	20	0.41	0.34	-0.07	0	0	0	0	0	0	0	0
10/25/2024 20:13	40601	PIGR_T1	238	241	3	0.49	0.71	0.22	0	0	0	0	0	0	0	0
10/25/2024 20:13	48901	FOSP_T2	7	10	3	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
10/25/2024 20:13	40902	JESH_T1	32	210	178	0.14	0.17	0.03	-0.82	-0.8	0	0	0	0	0	0
10/25/2024 20:13	57204	ROSS_T1	82	111	29	0.17	0.23	0.06	-0.69	-0.59	0	0	0	0	0	0
10/25/2024 20:13	67401	WAKE_T2	160	108	-52	0.24	0.27	0.03	-0.95	-0.93	0	0	0	0	0	0
10/25/2024 20:13	67605	WARW_T1	11	21	10	0.4	0.55	0.15	-1.25	-1.23	0	0	0	0	0	0
10/25/2024 20:13	14402	SSLA_T1	181	189	8	0.18	0.18	0	0	0	0	0	0	0	0	0
10/25/2024 20:13	17805	GILB_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
10/25/2024 20:13	65603	QVIL_T2	3	21	18	0.13	0.11	-0.02	0	0	0	0	0	0	0	0
10/25/2024 20:13	14401	SSLA_T1	8	8	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/25/2024 20:13	65602	QVIL_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/25/2024 20:13	67103	SPRI_T1	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
10/25/2024 20:13	57401	SPAN_T1	2	2	0	1.2	1.45	0.25	0.24	0.24	0	0	0	0	0	0
10/25/2024 20:13	65604	QVIL_T2	2	3	1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
10/25/2024 20:13	10702	CATA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/25/2024 20:13	60801	BUCK_T1	89	99	10	0.44	0.4	-0.04	-0.26	-0.25	0	0	0	0	0	0
10/25/2024 20:13	40901	JESH_T1	3	27	24	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/25/2024 20:14	14404	SSLA_T1	142	123	-19	0.16	0.18	0.02	0	0	0	0	0	0	0	0
10/25/2024 20:14	60801	BUCK_T1	89	99	10	0.44	0.4	-0.04	-0.26	-0.25	0	0	0	0	0	0
10/25/2024 20:14	54201	PENN_T1	11	12	1	0.9	0.92	0.02	0	0	0	0	0	0	0	0
10/25/2024 20:14	14801	TREI_T2	80	68	-12	0.17	0.18	0.01	0	0	0	0	0	0	0	0
10/25/2024 20:14	55102	WERT_T2	0	0	0	0	0	0	-0.3	-0.37	0	0	0	0	0	0
10/25/2024 20:14	40602	PIGR_T1	1	1	0	0.8	0.7	-0.1	-0.14	-0.19	1	1	0	600	600	0
10/25/2024 20:14	54603	SUMM_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/25/2024 20:14	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:14	17804	GILB_T2	9	0	-9	0.12	0	-0.12	0	0	0	0	0	0	0	0
10/25/2024 20:14	42203	SHEN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:14	60803	BUCK_T1	31	34	3	0.44	0.49	0.05	0	0	0	0	0	0	0	0
10/25/2024 20:14	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:14	10801	CHIH_T1	0	0	0	0	0	0	-1.05	-1.06	1	1	0	900	900	0
10/25/2024 20:14	66703	STRA_T1	2	3	1	0.1	0.2	0.1	-0.38	-0.33	0	0	0	0	0	0
10/25/2024 20:14	63602	LETO_T1	53	62	9	0.13	0.14	0.01	-0.54	-0.58	0	0	0	0	0	0
10/25/2024 20:14	54001	SDLE_T1	191	112	-79	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
10/25/2024 20:14	17805	GILB_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
10/25/2024 20:14	40601	PIGR_T1	238	241	3	0.49	0.71	0.22	0	0	0	0	0	0	0	0
10/25/2024 20:14	63501	HEID_TBK1-2	35	36	1	0.36	0.36	0	0.44	0.33	0	0	0	0	0	0
10/25/2024 20:14	43102	SMIL_T2	8	6	-2	0.69	0.87	0.18	-0.34	-0.35	0	0	0	0	0	0
10/25/2024 20:14	54203	PENN_T1	18	18	0	1.55	1.67	0.12	0.88	0.89	0	0	0	0	0	0
10/25/2024 20:14	13303	ORVI_T1	0	0	0	0	0	0	0.8	0.77	0	0	0	0	0	0
10/25/2024 20:14	14402	SSLA_T1	181	189	8	0.18	0.18	0	0	0	0	0	0	0	0	0
10/25/2024 20:14	48902	FOSP_T2	25	26	1	0.26	0.27	0.01	0	0	0	0	0	0	0	0
10/25/2024 20:14	43108	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:14	14401	SSLA_T1	8	8	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/25/2024 20:14	43103	SMIL_T2	20	10	-10	0.44	0.58	0.14	0	0	0	0	0	0	0	0
10/25/2024 20:14	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/25/2024 20:14	43105	SMIL_T2	15	17	2	0.21	0.25	0.04	0	0	0	0	0	0	0	0
10/25/2024 20:14	14403	SSLA_T1	10	9	-1	0.16	0.17	0.01	0.48	0.47	0	0	0	0	0	0
10/25/2024 20:14	48901	FOSP_T2	7	10	3	0.33	0.2	-0.13	0.44	0.44	0	0	0	0	0	0
10/25/2024 20:14	54701	NEBL_T1	7	7	0	0.63	0.93	0.3	0	0	0	0	0	0	0	0
10/25/2024 20:14	42201	SHEN_T2	4	4	0	0.58	0.63	0.05	0.33	0.33	0	0	0	0	0	0
10/25/2024 20:14	67605	WARW_T1	11	21	10	0.4	0.55	0.15	-1.25	-1.23	0	0	0	0	0	0
10/25/2024 20:14	54602	SUMM_T2	16	16	0	0.65	0.99	0.34	0	0	0	0	0	0	0	0
10/25/2024 20:14	14802	TREI_T2	29	27	-2	0.2	0.18	-0.02	0.3	0.32	0	0	0	0	0	0
10/25/2024 20:14	54601	SUMM_T2	11	13	2	0.92	1.01	0.09	-3.32	-3.36	1	1	0	1200	1200	0
10/25/2024 20:14	42204	SHEN_T2	29	43	14	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/25/2024 20:15	14403	SSLA_T1	8	11	3	0.16	0.18	0.02	0	0	0	0	0	0	0	0
10/25/2024 20:15	55102	WERT_T2	0	0	0	0	0	0	-0.3	-0.37	0	0	0	0	0	0
10/25/2024 20:15	43105	SMIL_T2	15	17	2	0.19	0.28	0.09	0	0	0	0	0	0	0	0
10/25/2024 20:15	43102	SMIL_T2	6	6	0	0.77	0.92	0.15	0	0	0	0	0	0	0	0
10/25/2024 20:15	54202	PENN_T2	0	21	21	0	0.12	0.12	0	0	0	0	0	0	0	0
10/25/2024 20:15	14402	SSLA_T1	92	206	114	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
10/25/2024 20:15	52002	LING_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
10/25/2024 20:15	43108	SMIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
10/25/2024 20:15	50624	CCTY_T2	2	2	0	6.05	5.75	-0.3	0	0	0	0	0	0	0	0
10/25/2024 20:15	54603	SUMM_T2	0	2	2	0	0.4	0.4	-0.46	-0.47	1	1	0	900	900	0
10/25/2024 20:15	63804	HEMP_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
10/25/2024 20:15	52006	LING_T2	2	2	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
10/25/2024 20:15	43103	SMIL_T2	9	15	6	0.58	0.52	-0.06	0	0	0	0	0	0	0	0
10/25/2024 20:15	54602	SUMM_T2	16	16	0	0.64	1.04	0.4	0	0	0	0	0	0	0	0
10/25/2024 20:15	57201	ROSS_T1	85	145	60	0.2	0.26	0.06	-0.69	-0.59	0	0	0	0	0	0
10/25/2024 20:15	57205	ROSS_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:15	59301	MCAL_T1	58	79	21	0.34	0.53	0.19	0	0	0	0	0	0	0	0
10/25/2024 20:15	63802	HEMP_T1	0	0	0	0	0	0	-0.78	-0.01	0	0	0	0	0	0
10/25/2024 20:15	14404	SSLA_T1	87	114	27	0.17	0.17	0	0	0	0	0	0	0	0	0
10/25/2024 20:15	52004	LING_T2	2	3	1	6.65	4.67	-1.98	0	0	0	0	0	0	0	0
10/25/2024 20:15	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/25/2024 20:15	43104	SMIL_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
10/25/2024 20:15	50625	CCTY_T2	5	5	0	2.58	2.64	0.06	0	0	0	0	0	0	0	0
10/25/2024 20:15	58402	MORO_T1	0	0	0	0	0	0	-0.24	-0.26	2	2	0	1500	1500	0
10/25/2024 20:15	50623	CCTY_T2	5	5	0	5.56	5.12	-0.44	0	0	0	0	0	0	0	0
10/25/2024 20:15	54204	PENN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/25/2024 20:15	57203	ROSS_T1	1	168	167	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/25/2024 20:15	59302	MCAL_T1	2	2	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
10/25/2024 20:15	54601	SUMM_T2	13	13	0	0.73	1.15	0.42	0	0	0	0	0	0	0	0
10/25/2024 20:15	13701	SCHN_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
10/25/2024 20:15	14401	SSLA_T1	7	8	1	0.29	0.33	0.04	-0.58	-0.58	0	0	0	0	0	0
10/25/2024 20:15	54206	PENN_T2	0	31	31	0	0.12	0.12	0	0	0	0	0	0	0	0
10/25/2024 20:16	64602	LEOL_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
10/25/2024 20:16	57203	ROSS_T1	1	168	167	0.1	0.12	0.02	0.32	0.32	0	0	0	0	0	0
10/25/2024 20:16	57201	ROSS_T1	85	145	60	0.2	0.26	0.06	-0.69	-0.59	0	0	0	0	0	0
10/25/2024 20:16	55101	WERT_T1	0	0	0	0	0	0	-1.32	-1.29	1	1	0	600	600	0
10/25/2024 20:16	40601	PIGR_T1	221	241	20	0.49	0.71	0.22	-0.18	-0.12	0	0	0	0	0	0
10/25/2024 20:16	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:16	64201	KINZ_T1	1	1	0	0.5	0.8	0.3	0.28	0.33	1	1	0	300	300	0
10/25/2024 20:16	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:16	55105	WERT_T1	0	0	0	0	0	0	-0.73	-0.77	1	1	0	900	900	0
10/25/2024 20:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:16	10702	CATA_T2	0	1	1	0	0.4	0.4	-0.99	-1	0	0	0	0	0	0
10/25/2024 20:16	49803	UNIV_T1	1	1	0	5.2	5	-0.2	-1.14	-1.17	0	0	0	0	0	0
10/25/2024 20:16	57205	ROSS_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:16	55001	NEWP_T1	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
10/25/2024 20:16	64202	KINZ_T1	3	2	-1	0.5	0.85	0.35	0	0	0	0	0	0	0	0
10/25/2024 20:16	63804	HEMP_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
10/25/2024 20:16	50701	SMEC_T1	2	17	15	0.1	0.16	0.06	0.12	0.07	0	0	0	0	0	0
10/25/2024 20:16	63802	HEMP_T1	0	0	0	0	0	0	-0.78	-0.01	0	0	0	0	0	0
10/25/2024 20:16	64204	KINZ_T1	1	1	0	0.8	1.4	0.6	0	0	0	0	0	0	0	0
10/25/2024 20:16	13701	SCHN_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
10/25/2024 20:16	40602	PIGR_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
10/25/2024 20:16	63501	HEID_TBK1-2	36	39	3	0.36	0.43	0.07	0.44	0.33	0	0	0	0	0	0
10/25/2024 20:16	54001	SDLE_T1	79	162	83	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
10/25/2024 20:16	63803	HEMP_T1	0	0	0	0	0	0	0.53	0.64	0	0	0	0	0	0
10/25/2024 20:16	55002	NEWP_T1	4	4	0	0.75	1.15	0.4	0	0	0	0	0	0	0	0
10/25/2024 20:16	44502	HAMI_T2	1	1	0	3.4	3.7	0.3	0	0	0	0	0	0	0	0
10/25/2024 20:17	54601	SUMM_T2	13	13	0	0.73	1.15	0.42	-3.32	-3.36	1	1	0	1200	1200	0
10/25/2024 20:17	59301	MCAL_T1	58	79	21	0.34	0.53	0.19	-1.32	-1.3	0	0	0	0	0	0
10/25/2024 20:17	44701	MUNC_T2	80	302	222	0.18	0.32	0.14	0	0	0	0	0	0	0	0
10/25/2024 20:17	52001	LING_T1	0	0	0	0	0	0	0.05	0.09	0	0	0	0	0	0
10/25/2024 20:17	54602	SUMM_T2	16	16	0	0.64	1.04	0.4	0	0	1	1	0	600	600	0
10/25/2024 20:17	52002	LING_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
10/25/2024 20:17	44703	MUNC_T2	2	2	0	1.3	1.7	0.4	0	0	0	0	0	0	0	0
10/25/2024 20:17	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:17	14802	TREI_T2	17	28	11	0.17	0.21	0.04	0.3	0.32	0	0	0	0	0	0
10/25/2024 20:17	57403	SPAN_T1	126	148	22	0.3	0.49	0.19	-0.05	-0.05	0	0	0	0	0	0
10/25/2024 20:17	67605	WARW_T1	15	42	27	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
10/25/2024 20:17	66501	SMAN_T2	0	23	23	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:17	55101	WERT_T1	0	0	0	0	0	0	-1.32	-1.29	1	1	0	600	600	0
10/25/2024 20:17	44702	MUNC_T2	8	34	26	0.13	0.21	0.08	0	0	0	0	0	0	0	0
10/25/2024 20:17	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.33	1	1	0	600	600	0
10/25/2024 20:17	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.47	0	0	0	0	0	0
10/25/2024 20:17	15703	TANN_T2	1	1	0	5.4	5.1	-0.3	0	0	0	0	0	0	0	0
10/25/2024 20:17	57402	SPAN_T2	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
10/25/2024 20:17	23001	SAUO_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
10/25/2024 20:17	59302	MCAL_T1	2	2	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
10/25/2024 20:17	57401	SPAN_T1	2	2	0	0.85	1.55	0.7	0	0	0	0	0	0	0	0
10/25/2024 20:17	52004	LING_T2	2	3	1	6.65	4.67	-1.98	0.09	0.08	0	0	0	0	0	0
10/25/2024 20:17	52006	LING_T2	2	2	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
10/25/2024 20:17	66502	SMAN_T2	0	1	1	0	0.1	0.1	-0.2	-0.04	0	0	0	0	0	0
10/25/2024 20:17	54603	SUMM_T2	0	2	2	0	0.4	0.4	-0.46	-0.47	1	1	0	900	900	0
10/25/2024 20:17	14801	TREI_T2	26	65	39	0.18	0.18	0	0	0	0	0	0	0	0	0
10/25/2024 20:17	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:17	55002	NEWP_T1	4	4	0	0.75	1.15	0.4	-0.26	-0.27	0	0	0	0	0	0
10/25/2024 20:17	66505	SMAN_T2	3	3	0	0.83	1.23	0.4	0	0	0	0	0	0	0	0
10/25/2024 20:18	55002	NEWP_T1	4	4	0	0.75	1.15	0.4	-0.26	-0.27	0	0	0	0	0	0
10/25/2024 20:18	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:18	66503	SMAN_T2	0	0	0	0	0	0	0.27	0.31	0	0	0	0	0	0
10/25/2024 20:18	40602	PIGR_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
10/25/2024 20:18	65502	MOJO_T2	306	353	47	0.36	0.56	0.2	0	0	0	0	0	0	0	0
10/25/2024 20:18	44801	EDAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/25/2024 20:18	25501	MADI_T1	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
10/25/2024 20:18	57401	SPAN_T1	2	2	0	0.85	1.55	0.7	0.24	0.24	0	0	0	0	0	0
10/25/2024 20:18	66501	SMAN_T2	0	23	23	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:18	55105	WERT_T1	0	0	0	0	0	0	-0.73	-0.77	1	1	0	900	900	0
10/25/2024 20:18	57403	SPAN_T1	126	148	22	0.3	0.49	0.19	0	0	0	0	0	0	0	0
10/25/2024 20:18	66505	SMAN_T2	3	3	0	0.83	1.23	0.4	0	0	0	0	0	0	0	0
10/25/2024 20:18	44802	EDAN_T2	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
10/25/2024 20:18	55001	NEWP_T1	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
10/25/2024 20:18	54001	SDLE_T1	79	162	83	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
10/25/2024 20:18	13704	SCHN_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
10/25/2024 20:18	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.33	1	1	0	600	600	0
10/25/2024 20:18	40601	PIGR_T1	221	241	20	0.49	0.71	0.22	0	0	0	0	0	0	0	0
10/25/2024 20:18	44203	POIN_T2	0	0	0	0	0	0	0.15	0.17	1	1	0	900	900	0
10/25/2024 20:18	65503	MOJO_T2	259	382	123	0.21	0.36	0.15	0	0	0	0	0	0	0	0
10/25/2024 20:18	25503	MADI_T1	0	0	0	0	0	0	-1.37	-1.42	0	0	0	0	0	0
10/25/2024 20:19	57106	SPHI_T2	3	3	0	1.9	1.77	-0.13	0	0	0	0	0	0	0	0
10/25/2024 20:19	14404	SSLA_T1	87	114	27	0.17	0.17	0	0	0	0	0	0	0	0	0
10/25/2024 20:19	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.33	1	1	0	600	600	0
10/25/2024 20:19	14401	SSLA_T1	7	8	1	0.29	0.33	0.04	0	0	0	0	0	0	0	0
10/25/2024 20:19	57101	SPHI_T2	5	5	0	1.54	1.52	-0.02	0	0	0	0	0	0	0	0
10/25/2024 20:19	57104	SPHI_T2	3	3	0	2.8	1.5	-1.3	-0.52	-0.57	0	0	0	0	0	0
10/25/2024 20:19	20403	ASHF_T2	2	13	11	4	0.14	-3.86	0	0	0	0	0	0	0	0
10/25/2024 20:19	64802	MONE_T2	171	123	-48	0.19	0.22	0.03	0.1	0.08	0	0	0	0	0	0
10/25/2024 20:19	14201	EALL_T1	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
10/25/2024 20:19	14402	SSLA_T1	92	206	114	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
10/25/2024 20:19	64704	LITI_T1	0	0	0	0	0	0	0.66	0.59	0	0	0	0	0	0
10/25/2024 20:19	46101	MACI_T2	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
10/25/2024 20:19	64801	MONE_T2	28	45	17	0.15	0.22	0.07	0	0	0	0	0	0	0	0
10/25/2024 20:19	59402	RFLD_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
10/25/2024 20:19	14403	SSLA_T1	8	11	3	0.16	0.18	0.02	0.48	0.47	0	0	0	0	0	0
10/25/2024 20:19	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:19	13704	SCHN_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
10/25/2024 20:19	54001	SDLE_T1	79	162	83	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
10/25/2024 20:19	20401	ASHF_T2	15	69	54	0.35	0.23	-0.12	-0.32	-0.33	0	0	0	0	0	0
10/25/2024 20:20	48902	FOSP_T2	18	27	9	0.22	0.26	0.04	0	0	0	0	0	0	0	0
10/25/2024 20:20	54603	SUMM_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
10/25/2024 20:20	10701	CATA_T2	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
10/25/2024 20:20	54001	SDLE_T1	79	162	83	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
10/25/2024 20:20	54602	SUMM_T2	16	16	0	0.64	1.04	0.4	0	0	0	0	0	0	0	0
10/25/2024 20:20	48901	FOSP_T2	7	10	3	0.2	0.2	0	0.22	0.22	0	0	0	0	0	0
10/25/2024 20:20	11301	EMMA_T1	0	0	0	0	0	0	-0.94	-0.92	0	0	0	0	0	0
10/25/2024 20:20	44201	POIN_T1	423	493	70	0.3	0.32	0.02	-2.12	-2.06	2	2	0	2100	2100	0
10/25/2024 20:20	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.33	1	1	0	600	600	0
10/25/2024 20:20	40602	PIGR_T1	1	1	0	0.9	0.7	-0.2	-0.28	-0.38	2	2	0	1200	1200	0
10/25/2024 20:20	43504	WWIL_T1	12	14	2	0.58	0.71	0.13	0.53	0.51	0	0	0	0	0	0
10/25/2024 20:20	43506	WWIL_T1	1	3	2	2	0.8	-1.2	0	0	0	0	0	0	0	0
10/25/2024 20:20	10702	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/25/2024 20:20	40601	PIGR_T1	221	241	20	0.49	0.71	0.22	0	0	0	0	0	0	0	0
10/25/2024 20:20	43505	WWIL_T1	1	2	1	2.7	1.45	-1.25	0	0	0	0	0	0	0	0
10/25/2024 20:20	54601	SUMM_T2	13	13	0	0.73	1.15	0.42	-3.32	-3.36	1	1	0	1200	1200	0
10/25/2024 20:21	43801	SWIL_T1	17	67	50	0.56	0.32	-0.24	0	0	0	0	0	0	0	0
10/25/2024 20:21	43108	SMIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
10/25/2024 20:21	66504	SMAN_T2	0	0	0	0	0	0	-0.48	-0.53	0	0	0	0	0	0
10/25/2024 20:21	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:21	45702	LIND_T2	1	2	1	1.9	0.65	-1.25	-0.58	-0.61	0	0	0	0	0	0
10/25/2024 20:21	43102	SMIL_T2	6	6	0	0.77	0.92	0.15	0	0	0	0	0	0	0	0
10/25/2024 20:21	67602	WARW_T2	0	0	0	0	0	0	1.15	1.16	1	1	0	300	300	0
10/25/2024 20:21	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:21	66501	SMAN_T2	0	23	23	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:21	43104	SMIL_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
10/25/2024 20:21	55105	WERT_T1	0	0	0	0	0	0	-0.73	-0.77	1	1	0	900	900	0
10/25/2024 20:21	43103	SMIL_T2	9	15	6	0.58	0.52	-0.06	0	0	0	0	0	0	0	0
10/25/2024 20:21	43105	SMIL_T2	15	17	2	0.19	0.28	0.09	0	0	0	0	0	0	0	0
10/25/2024 20:21	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:21	66505	SMAN_T2	3	3	0	0.83	1.23	0.4	0	0	0	0	0	0	0	0
10/25/2024 20:21	54001	SDLE_T1	79	162	83	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
10/25/2024 20:21	20401	ASHF_T2	15	69	54	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
10/25/2024 20:21	20403	ASHF_T2	2	13	11	4	0.14	-3.86	0.08	0.02	0	0	0	0	0	0
10/25/2024 20:21	52004	LING_T2	2	3	1	6.65	4.67	-1.98	0.09	0.08	0	0	0	0	0	0
10/25/2024 20:21	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:21	52002	LING_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
10/25/2024 20:21	52006	LING_T2	2	2	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
10/25/2024 20:21	67401	SMIL_T2	95	131	36	0.21	0.34	0.13	-0.93	-0.94	0	0	0	0	0	0
10/25/2024 20:21	63801	HEMP_T1	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
10/25/2024 20:21	63804	HEMP_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
10/25/2024 20:22	57201	ROSS_T1	85	145	60	0.2	0.26	0.06	0	0	0	0	0	0	0	0
10/25/2024 20:22	54204	PENN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/25/2024 20:22	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/25/2024 20:22	67402	WAKE_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
10/25/2024 20:22	57505	LAWN_T3	3	6	3	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/25/2024 20:22	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:22	63804	HEMP_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
10/25/2024 20:22	66504	SMAN_T2	0	0	0	0	0	0	-0.48	-0.53	0	0	0	0	0	0
10/25/2024 20:22	57502	LAWN_T3	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
10/25/2024 20:22	66501	SMAN_T2	0	23	23	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:22	65003	NEFF_T2	0	4	4	0	0.28	0.28	-1.48	-1.4	1	1	0	1200	1200	0
10/25/2024 20:22	54202	PENN_T2	0	21	21	0	0.12	0.12	0	0	0	0	0	0	0	0
10/25/2024 20:22	63803	HEMP_T1	0	0	0	0	0	0	0.64	0.54	0	0	0	0	0	0
10/25/2024 20:22	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:22	66505	SMAN_T2	3	3	0	0.83	1.23	0.4	0	0	0	0	0	0	0	0
10/25/2024 20:22	67401	WAKE_T2	95	131	36	0.21	0.34	0.13	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/25/2024 20:22	54206	PENN_T2	0	31	31	0	0.12	0.12	0	0	0	0	0	0	0	0
10/25/2024 20:22	57203	ROSS_T1	1	168	167	0.1	0.12	0.02	0.32	0.31	0	0	0	0	0	0
10/25/2024 20:22	57205	ROSS_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:23	45702	LIND_T2	1	2	1	1.9	0.65	-1.25	-0.58	-0.61	0	0	0	0	0	0
10/25/2024 20:23	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:23	65503	MOJO_T2	259	382	123	0.21	0.36	0.15	0	0	0	0	0	0	0	0
10/25/2024 20:23	65502	MOJO_T2	306	353	47	0.36	0.56	0.2	0	0	0	0	0	0	0	0
10/25/2024 20:23	57401	SPAN_T1	2	2	0	0.85	1.55	0.7	0	0	0	0	0	0	0	0
10/25/2024 20:23	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:23	41201	KENM_T2	2	17	15	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
10/25/2024 20:23	66501	SMAN_T2	0	23	23	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:23	46803	HEPB_T2	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
10/25/2024 20:23	44202	POIN_T2	0	0	0	0	0	0	-0.88	-0.91	1	1	0	1200	1200	0
10/25/2024 20:23	66505	SMAN_T2	3	3	0	0.83	1.23	0.4	0	0	0	0	0	0	0	0
10/25/2024 20:23	57403	SPAN_T1	126	148	22	0.3	0.49	0.19	-0.05	-0.04	0	0	0	0	0	0
10/25/2024 20:23	66502	SMAN_T2	0	1	1	0	0.1	0.1	-0.04	-0.02	0	0	0	0	0	0
10/25/2024 20:23	41202	KENM_T2	1	1	0	0.7	0.9	0.2	0.43	0.43	0	0	0	0	0	0
10/25/2024 20:23	44201	POIN_T1	423	493	70	0.3	0.32	0.02	-2.06	-2.08	2	2	0	2100	2100	0
10/25/2024 20:23	46801	HEPB_T2	4	20	16	0.58	0.24	-0.34	0.47	0.47	0	0	0	0	0	0
10/25/2024 20:24	54204	PENN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/25/2024 20:24	64303	LINC_T1	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
10/25/2024 20:24	15001	BLMO_T1	4	4	0	0.53	0.6	0.07	0	0	0	0	0	0	0	0
10/25/2024 20:24	64305	LINC_T1	1	2	1	0.1	0.25	0.15	-0.59	-0.64	0	0	0	0	0	0
10/25/2024 20:24	43802	SWIL_T1	0	0	0	0	0	0	-0.25	-0.26	1	1	0	600	600	0
10/25/2024 20:24	54202	PENN_T2	0	21	21	0	0.12	0.12	0	0	0	0	0	0	0	0
10/25/2024 20:24	43801	SWIL_T1	17	67	50	0.56	0.32	-0.24	0	0	0	0	0	0	0	0
10/25/2024 20:24	54206	PENN_T2	0	31	31	0	0.12	0.12	0	0	0	0	0	0	0	0
10/25/2024 20:25	64202	KINZ_T1	3	2	-1	0.5	0.85	0.35	0	0	0	0	0	0	0	0
10/25/2024 20:25	64201	KINZ_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/25/2024 20:25	64802	MONE_T2	171	123	-48	0.19	0.22	0.03	0.08	0.2	0	0	0	0	0	0
10/25/2024 20:25	63804	HEMP_T1	1	1	0	5.4	5.4	0	0.67	0.69	0	0	0	0	0	0
10/25/2024 20:25	65602	QVIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
10/25/2024 20:25	64801	MONE_T2	28	45	17	0.15	0.22	0.07	0	0	0	0	0	0	0	0
10/25/2024 20:25	46506	LOHA_T1	3	3	0	5.8	5.97	0.17	0	0	0	0	0	0	0	0
10/25/2024 20:25	45602	WOOL_T1	4	10	6	0.2	0.21	0.01	0.47	0.48	0	0	0	0	0	0
10/25/2024 20:25	64203	KINZ_T1	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
10/25/2024 20:25	46504	LOHA_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
10/25/2024 20:25	65603	QVIL_T2	5	104	99	0.12	0.15	0.03	0	0	0	0	0	0	0	0
10/25/2024 20:25	64204	KINZ_T1	1	1	0	0.8	1.4	0.6	0	0	0	0	0	0	0	0
10/25/2024 20:25	44202	POIN_T2	0	0	0	0	0	0	-0.88	-0.91	1	1	0	1200	1200	0
10/25/2024 20:25	46501	LOHA_T1	0	0	0	0	0	0	-0.11	-0.14	1	1	0	1200	1200	0
10/25/2024 20:25	65604	QVIL_T2	2	3	1	0.1	0.33	0.23	0	0	0	0	0	0	0	0
10/25/2024 20:25	46502	LOHA_T1	0	0	0	0	0	0	-0.08	-0.04	0	0	0	0	0	0
10/25/2024 20:25	65601	QVIL_T2	14	118	104	0.14	0.25	0.11	0	0	0	0	0	0	0	0
10/25/2024 20:26	64204	KINZ_T1	1	1	0	0.8	1.4	0.6	0	0	0	0	0	0	0	0
10/25/2024 20:26	67401	WAKE_T2	95	131	36	0.21	0.34	0.13	-0.93	-0.94	0	0	0	0	0	0
10/25/2024 20:26	60101	COCA_T1	0	0	0	0	0	0	0.22	0.14	0	0	0	0	0	0
10/25/2024 20:26	40902	JESH_T1	161	250	89	0.15	0.19	0.04	-0.8	-0.8	0	0	0	0	0	0
10/25/2024 20:26	57203	ROSS_T1	1	168	167	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/25/2024 20:26	64201	KINZ_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/25/2024 20:26	67605	WARW_T1	15	42	27	0.55	0.5	-0.05	-1.23	-1.25	0	0	0	0	0	0
10/25/2024 20:26	46503	LOHA_T1	0	0	0	0	0	0	-1.26	-1.28	0	0	0	0	0	0
10/25/2024 20:26	66505	SMAN_T2	3	3	0	0.83	1.23	0.4	0	0	0	0	0	0	0	0
10/25/2024 20:26	40903	JESH_T1	98	170	72	0.16	0.21	0.05	0	0	0	0	0	0	0	0
10/25/2024 20:26	57201	ROSS_T1	85	145	60	0.2	0.26	0.06	0	0	0	0	0	0	0	0
10/25/2024 20:26	46802	HEPB_T1	1	6	5	1.2	0.33	-0.87	-0.35	-0.34	0	0	0	0	0	0
10/25/2024 20:26	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 20:26	66501	SMAN_T2	0	23	23	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:26	67602	WARW_T2	0	0	0	0	0	0	1.15	1.16	1	1	0	300	300	0
10/25/2024 20:26	64202	KINZ_T1	3	2	-1	0.5	0.85	0.35	0	0	0	0	0	0	0	0
10/25/2024 20:26	57205	ROSS_T1	0	6	6	0	0.1	0.1	0.02	0.02	0	0	0	0	0	0
10/25/2024 20:26	46506	LOHA_T1	3	3	0	5.8	5.97	0.17	0	0	0	0	0	0	0	0
10/25/2024 20:26	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 20:26	40901	JESH_T1	14	41	27	0.1	0.17	0.07	0	0	0	0	0	0	0	0
10/25/2024 20:26	46504	LOHA_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
10/25/2024 20:26	60102	COCA_T1	0	0	0	0	0	0	0.16	0.19	2	2	0	1200	1200	0
10/25/2024 20:27	46803	HEPB_T2	1	3	2	0.2	0.17	-0.03	0.44	0.41	0	0	0	0	0	0
10/25/2024 20:27	63501	HEID_TBK1-2	36	39	3	0.36	0.43	0.07	0.33	0.41	0	0	0	0	0	0
10/25/2024 20:27	46506	LOHA_T1	3	3	0	5.8	5.97	0.17	0	0	0	0	0	0	0	0
10/25/2024 20:27	65502	MOJO_T2	306	353	47	0.36	0.56	0.2	-1.1	-1.14	0	0	0	0	0	0
10/25/2024 20:27	46505	LOHA_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
10/25/2024 20:27	46801	HEPB_T2	4	20	16	0.58	0.24	-0.34	0	0	0	0	0	0	0	0
10/25/2024 20:27	60801	BUCK_T1	82	127	45	0.39	0.46	0.07	-0.25	-0.26	0	0	0	0	0	0
10/25/2024 20:27	65503	MOJO_T2	259	382	123	0.21	0.36	0.15	0	0	0	0	0	0	0	0
10/25/2024 20:27	45902	AUBU_T1	0	0	0	0	0	0	-0.03	0	1	1	0	600	600	0
10/25/2024 20:27	45602	WOOL_T1	4	10	6	0.2	0.21	0.01	0.94	0.96	0	0	0	0	0	0
10/25/2024 20:27	60803	BUCK_T1	30	60	30	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
10/25/2024 20:27	46504	LOHA_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
10/25/2024 20:27	67602	WARW_T2	0	0	0	0	0	0	1.15	1.16	1	1	0	300	300	0
10/25/2024 20:28	64904	MILL_T1	0	1	1	0	0.1	0.1	0.4	0.41	0	0	0	0	0	0
10/25/2024 20:28	40901	JESH_T1	14	41	27	0.1	0.17	0.07	0	0	0	0	0	0	0	0
10/25/2024 20:28	67402	WAKE_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
10/25/2024 20:28	40903	JESH_T1	98	170	72	0.16	0.21	0.05	0	0	0	0	0	0	0	0
10/25/2024 20:28	65602	QVIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
10/25/2024 20:28	60803	BUCK_T1	30	60	30	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
10/25/2024 20:28	64901	MILL_T1	3	48	45	0.1	0.16	0.06	0	0	0	0	0	0	0	0
10/25/2024 20:28	65601	QVIL_T2	14	118	104	0.14	0.25	0.11	-0.32	-0.35	0	0	0	0	0	0
10/25/2024 20:28	60801	BUCK_T1	82	127	45	0.39	0.46	0.07	0	0	0	0	0	0	0	0
10/25/2024 20:28	45602	WOOL_T1	4	10	6	0.2	0.21	0.01	0.94	0.96	0	0	0	0	0	0
10/25/2024 20:28	65604	QVIL_T2	2	3	1	0.1	0.33	0.23	0	0	0	0	0	0	0	0
10/25/2024 20:28	40902	JESH_T1	161	250	89	0.15	0.19	0.04	0	0	0	0	0	0	0	0
10/25/2024 20:28	67401	WAKE_T2	95	131	36	0.21	0.34	0.13	-0.93	-0.94	0	0	0	0	0	0
10/25/2024 20:28	65603	QVIL_T2	5	104	99	0.12	0.15	0.03	0	0	0	0	0	0	0	0
10/25/2024 20:31	46506	LOHA_T1	3	3	0	5.97	5.73	-0.24	0	0	0	0	0	0	0	0
10/25/2024 20:31	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
10/25/2024 20:31	46504	LOHA_T1	1	2	1	1.6	0.85	-0.75	0	0	0	0	0	0	0	0
10/25/2024 20:36	55001	NEWP_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
10/25/2024 20:36	55002	NEWP_T1	4	5	1	0.88	1.08	0.2	0	0	0	0	0	0	0	0
10/25/2024 20:38	54206	PENN_T2	9	59	50	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/25/2024 20:38	54204	PENN_T2	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
10/25/2024 20:38	54202	PENN_T2	2	52	50	0.1	0.12	0.02	0	0	0	0	0	0	0	0
10/25/2024 20:55	17802	GILB_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
10/25/2024 21:05	43103	SMIL_T2	20	22	2	0.53	0.9	0.37	-1.06	-1.07	0	0	0	0	0	0
10/25/2024 21:05	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/25/2024 21:05	43105	SMIL_T2	18	21	3	0.31	0.39	0.08	0	0	0	0	0	0	0	0
10/25/2024 21:05	43102	SMIL_T2	7	7	0	0.93	0.9	-0.03	0	0	0	0	0	0	0	0
10/25/2024 21:13	24801	VALM_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
10/25/2024 21:26	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 22:07	67802	WLAN_T1	58	74	16	0.2	0.25	0.05	0	0	0	0	0	0	0	0
10/25/2024 22:07	67803	WLAN_T1	362	1001	639	0.14	0.21	0.07	0	0	0	0	0	0	0	0
10/25/2024 22:07	67804	WLAN_T1	322	909	587	0.18	0.2	0.02	0	0	0	0	0	0	0	0
10/25/2024 22:07	67805	WLAN_T1	683	887	204	0.54	0.58	0.04	-1.64	-1.63	0	0	0	0	0	0
10/25/2024 22:07	67801	WLAN_T1	8	83	75	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/25/2024 22:35	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2024 22:54	50701	SMEC_T1	0	0	0	0	0	0	-0.06	-0.01	0	0	0	0	0	0
10/26/2024 0:03	28102	TWLA_T2	13	18	5	0.56	0.62	0.06	0.17	0.16	0	0	0	0	0	0
10/26/2024 8:09	15203	SFAR_T2	23	2	-21	0.1	0.1	0	-1.45	-1.45	0	0	0	0	0	0
10/26/2024 8:24	15203	SFAR_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/26/2024 8:24	15204	SFAR_T2	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
10/26/2024 8:27	45901	AUBU_T1	0	0	0	0	0	0	0.93	0.95	0	0	0	0	0	0
10/26/2024 8:27	20102	AVOC_T1	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
10/26/2024 8:38	24902	WHHA_T1	11	1	-10	0.55	0	-0.55	0	0	0	0	0	0	0	0
10/26/2024 8:38	24901	WHHA_T1	1	0	-1	0.2	0	-0.2	-0.82	-0.82	0	0	0	0	0	0
10/26/2024 8:45	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/26/2024 8:47	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/26/2024 8:55	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 8:57	45501	DERR_T2	0	0	0	0	0	0	0.23	0.18	2	2	0	1800	1800	0
10/26/2024 8:59	45501	DERR_T2	0	0	0	0	0	0	0.23	0.18	2	2	0	1800	1800	0
10/26/2024 9:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 9:13	11203	ELHE_T1	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
10/26/2024 9:13	10903	COOP_T2	2	4	2	0.15	0.28	0.13	-0.46	-0.49	1	1	0	600	600	0
10/26/2024 9:25	59202	THOM_T1	238	373	135	0.22	0.38	0.16	0	0	0	0	0	0	0	0
10/26/2024 9:25	59201	THOM_T1	17	35	18	0.38	0.43	0.05	0	0	0	0	0	0	0	0
10/26/2024 9:29	63501	HEID_TBK1-2	1	1	0	0.7	0.4	-0.3	0.45	0.43	0	0	0	0	0	0
10/26/2024 9:31	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/26/2024 9:31	54501	ENOL_T2	0	0	0	0	0	0	-0.58	-0.57	1	1	0	600	600	0
10/26/2024 9:32	63501	HEID_TBK1-2	1	1	0	0.4	0.7	0.3	0.45	0.43	0	0	0	0	0	0
10/26/2024 9:33	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/26/2024 9:34	63501	HEID_TBK1-2	1	1	0	0.4	0.7	0.3	0.45	0.43	0	0	0	0	0	0
10/26/2024 9:35	42204	SHEN_T2	0	0	0	0	0	0	-0.87	-0.85	1	1	0	1200	1200	0
10/26/2024 9:35	42201	SHEN_T2	2	3	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
10/26/2024 9:39	14601	SWHI_T1	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
10/26/2024 9:57	29402	BELT_T1	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
10/26/2024 9:58	29402	BELT_T1	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
10/26/2024 10:00	14601	SWHI_T1	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
10/26/2024 10:00	42204	SHEN_T2	0	0	0	0	0	0	-0.84	-0.83	1	1	0	1200	1200	0
10/26/2024 10:00	14603	SWHI_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
10/26/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.24	0.27	0	0	0	0	0	0
10/26/2024 10:00	67503	WEWI_T2	1	1	0	8	7.7	-0.3	-0.31	-0.32	0	0	0	0	0	0
10/26/2024 10:07	28102	TWLA_T2	0	3	3	0	0.3	0.3	0.2	0.21	0	0	0	0	0	0
10/26/2024 10:07	67603	WARW_T1	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
10/26/2024 10:08	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 10:09	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 10:13	29301	DAPP_T1	1	1	0	9.3	10	0.7	0	0	1	1	0	600	600	0
10/26/2024 10:16	11203	ELHE_T1	0	0	0	0	0	0	0.8	0.83	0	0	0	0	0	0
10/26/2024 10:17	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 10:18	22602	KIMB_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
10/26/2024 10:19	22901	HARW_T1	2	3	1	0.7	0.5	-0.2	-0.59	-0.61	1	1	0	1200	1200	0
10/26/2024 10:19	13704	SCHN_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
10/26/2024 10:19	15603	NSTR_T2	0	0	0	0	0	0	-0.61	-1.33	0	0	0	0	0	0
10/26/2024 10:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 10:23	59202	THOM_T1	434	572	138	0.4	0.53	0.13	0	0	0	0	0	0	0	0
10/26/2024 10:23	24902	WHHA_T1	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/26/2024 10:23	29402	BELT_T1	1	1	0	6.7	7.5	0.8	0	0	0	0	0	0	0	0
10/26/2024 10:23	59201	THOM_T1	54	72	18	0.42	0.52	0.1	0	0	0	0	0	0	0	0
10/26/2024 10:23	24901	WHHA_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
10/26/2024 10:24	59202	THOM_T1	434	572	138	0.4	0.53	0.13	0	0	0	0	0	0	0	0
10/26/2024 10:24	59201	THOM_T1	54	72	18	0.42	0.52	0.1	0	0	0	0	0	0	0	0
10/26/2024 10:24	29402	BELT_T1	1	1	0	6.7	7.5	0.8	0	0	0	0	0	0	0	0
10/26/2024 10:25	15703	TANN_T2	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
10/26/2024 10:25	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.45	0	0	0	0	0	0
10/26/2024 10:26	48302	ORWI_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
10/26/2024 10:26	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.05	-0.07	2	2	0	1200	1200	0
10/26/2024 10:27	45901	AUBU_T1	0	0	0	0	0	0	0.91	0.9	0	0	0	0	0	0
10/26/2024 10:27	59201	THOM_T1	54	72	18	0.42	0.52	0.1	0	0	0	0	0	0	0	0
10/26/2024 10:27	45902	AUBU_T1	0	1	1	0	0.1	0.1	-0.05	-0.07	2	2	0	1200	1200	0
10/26/2024 10:27	64602	LEOL_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
10/26/2024 10:27	59202	THOM_T1	434	572	138	0.4	0.53	0.13	0	0	0	0	0	0	0	0
10/26/2024 10:28	24902	WHHA_T1	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
10/26/2024 10:28	24901	WHHA_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
10/26/2024 10:28	59202	THOM_T1	434	572	138	0.4	0.53	0.13	0	0	0	0	0	0	0	0
10/26/2024 10:28	59201	THOM_T1	54	72	18	0.42	0.52	0.1	0	0	0	0	0	0	0	0
10/26/2024 10:29	54501	ENOL_T2	0	0	0	0	0	0	-0.56	-0.53	1	1	0	600	600	0
10/26/2024 10:38	15703	TANN_T2	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
10/26/2024 10:38	15702	TANN_T2	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
10/26/2024 10:39	15702	TANN_T2	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
10/26/2024 10:39	15703	TANN_T2	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
10/26/2024 10:42	45501	DERR_T2	0	1	1	0	0.2	0.2	0.24	0.24	2	2	0	1800	1800	0
10/26/2024 10:42	60801	BUCK_T1	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
10/26/2024 10:44	45501	DERR_T2	0	1	1	0	0.2	0.2	0.24	0.24	2	2	0	1800	1800	0
10/26/2024 10:45	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 10:45	21206	ECAR_T2	1	2	1	8.1	4.15	-3.95	-0.07	-0.11	0	0	0	0	0	0
10/26/2024 10:45	11202	ELHE_T2	0	0	0	0	0	0	0.4	0.39	1	1	0	1200	1200	0
10/26/2024 10:48	64204	KINZ_T1	2	11	9	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
10/26/2024 10:48	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/26/2024 10:48	64201	KINZ_T1	1	1	0	0.4	0.3	-0.1	-0.85	-1.02	3	3	0	1500	1500	0
10/26/2024 10:49	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 10:50	65601	QVIL_T2	1	1	0	0.4	0.3	-0.1	-1.11	-1.25	1	1	0	900	900	0
10/26/2024 10:50	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 10:51	14603	SWHI_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
10/26/2024 10:51	14604	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 10:51	65601	QVIL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/26/2024 10:53	23403	HONE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/26/2024 10:57	10801	CHHI_T1	1	0	-1	0.2	0	-0.2	-1.68	-1.68	2	2	0	1500	1500	0
10/26/2024 10:58	17805	GILB_T2	0	1	1	0	0.2	0.2	-0.14	-0.15	0	0	0	0	0	0
10/26/2024 10:58	17804	GILB_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/26/2024 10:59	17805	GILB_T2	0	1	1	0	0.2	0.2	-0.14	-0.15	0	0	0	0	0	0
10/26/2024 10:59	17804	GILB_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/26/2024 11:00	45501	DERR_T2	1	1	0	0.2	0.5	0.3	0.24	0.25	2	2	0	1800	1800	0
10/26/2024 11:02	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/26/2024 11:04	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/26/2024 11:12	21204	ECAR_T2	1	3	2	0	0	0	-0.77	-0.73	0	0	0	0	0	0
10/26/2024 11:12	21206	ECAR_T2	1	2	1	7.9	4.25	-3.65	0	0	0	0	0	0	0	0
10/26/2024 11:16	20603	GRWO_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
10/26/2024 11:18	66703	STRA_T1	0	0	0	0	0	0	-0.21	-0.16	0	0	0	0	0	0
10/26/2024 11:19	25402	LAHA_T2	0	0	0	0	0	0	-0.55	-0.48	0	0	0	0	0	0
10/26/2024 11:23	15203	SFAR_T2	15	10	-5	0.26	0.25	-0.01	-1.29	-1.31	0	0	0	0	0	0
10/26/2024 11:25	15203	SFAR_T2	15	10	-5	0.26	0.25	-0.01	-1.29	-1.31	0	0	0	0	0	0
10/26/2024 11:29	10801	CHHI_T1	0	3	3	0	0.2	0.2	-1.69	-1.7	2	2	0	1500	1500	0
10/26/2024 11:34	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/26/2024 11:39	55101	WERT_T1	0	0	0	0	0	0	-1.08	-0.95	1	1	0	600	600	0
10/26/2024 11:40	16801	WAGN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/26/2024 11:40	55101	WERT_T1	0	0	0	0	0	0	-1.08	-0.95	1	1	0	600	600	0
10/26/2024 11:43	48901	FOSP_T2	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
10/26/2024 11:43	48902	FOSP_T2	0	1	1	0	0.2	0.2	-0.37	-0.42	0	0	0	0	0	0
10/26/2024 11:46	48902	FOSP_T2	0	1	1	0	0.2	0.2	-0.37	-0.42	0	0	0	0	0	0
10/26/2024 11:46	64201	KINZ_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
10/26/2024 11:46	64204	KINZ_T1	3	10	7	0.67	0.38	-0.29	0	0	0	0	0	0	0	0
10/26/2024 11:46	64202	KINZ_T1	2	3	1	0.15	0.43	0.28	0	0	0	0	0	0	0	0
10/26/2024 11:46	64203	KINZ_T1	0	0	0	0	0	0	0.77	-0.17	1	1	0	600	600	0
10/26/2024 11:47	48902	FOSP_T2	0	1	1	0	0.2	0.2	-0.37	-0.42	0	0	0	0	0	0
10/26/2024 11:47	25501	MADI_T1	1	1	0	0.9	1.4	0.5	0	0	0	0	0	0	0	0
10/26/2024 11:47	25503	MADI_T1	1	0	-1	0.2	0	-0.2	-1.13	-1.46	0	0	0	0	0	0
10/26/2024 11:47	46801	HEPB_T2	0	1	1	0	0.1	0.1	0.45	0.48	0	0	0	0	0	0
10/26/2024 11:47	25502	MADI_T1	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
10/26/2024 11:52	15203	SFAR_T2	10	27	17	0.23	0.13	-0.1	-1.27	-1.32	0	0	0	0	0	0
10/26/2024 11:52	44905	SCOT_T1	3	3	0	0.57	0	-0.57	0	0	0	0	0	0	0	0
10/26/2024 11:53	42601	TUSC_T1	0	0	0	0	0	0	-0.36	-0.32	2	2	0	1800	1800	0
10/26/2024 11:54	15204	SFAR_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/26/2024 11:54	43402	BENT_T1	2	2	0	0.55	0.5	-0.05	-0.89	-0.93	1	1	0	900	900	0
10/26/2024 11:54	43101	SMIL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
10/26/2024 11:54	43103	SMIL_T2	5	6	1	0.56	0.56	0	0	0	0	0	0	0	0	0
10/26/2024 11:54	43102	SMIL_T2	6	6	0	0.43	0.58	0.15	-0.84	-0.83	1	1	0	600	600	0
10/26/2024 11:54	43105	SMIL_T2	2	2	0	0.65	0.75	0.1	0	0	0	0	0	0	0	0
10/26/2024 11:54	43104	SMIL_T2	2	3	1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
10/26/2024 11:54	15203	SFAR_T2	10	27	17	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
10/26/2024 11:55	42601	TUSC_T1	0	0	0	0	0	0	-0.71	-0.64	4	4	0	3600	3600	0
10/26/2024 11:55	15203	SFAR_T2	10	27	17	0.23	0.13	-0.1	-1.27	-1.32	0	0	0	0	0	0
10/26/2024 11:56	43402	BENT_T1	2	2	0	0.55	0.5	-0.05	-0.89	-0.93	1	1	0	900	900	0
10/26/2024 11:57	15203	SFAR_T2	10	27	17	0.23	0.13	-0.1	-1.27	-1.32	0	0	0	0	0	0
10/26/2024 11:58	48901	FOSP_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
10/26/2024 11:58	48902	FOSP_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/26/2024 12:00	44801	EDAN_T2	3	5	2	1.4	2.13	0.73	-0.51	-0.51	0	0	0	0	0	0
10/26/2024 12:01	63501	HEID_TBK1-2	1	1	0	0.5	1	0.5	0.86	0.84	0	0	0	0	0	0
10/26/2024 12:02	41801	GOCI_T2	3	3	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
10/26/2024 12:03	41801	GOCI_T2	3	3	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
10/26/2024 12:04	63501	HEID_TBK1-2	1	1	0	0.5	1	0.5	0.43	0.42	0	0	0	0	0	0
10/26/2024 12:04	65503	MOJO_T2	0	0	0	0	0	0	-0.37	-0.33	0	0	0	0	0	0
10/26/2024 12:08	24901	WHHA_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
10/26/2024 12:08	15201	SFAR_T1	0	0	0	0	0	0	-0.88	-0.8	2	2	0	1800	1800	0
10/26/2024 12:08	14801	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/26/2024 12:08	24902	WHHA_T1	1	0	-1	0.2	0	-0.2	0.72	0.7	0	0	0	0	0	0
10/26/2024 12:08	14802	TREI_T2	0	1	1	0	0.4	0.4	0.31	0.33	0	0	0	0	0	0
10/26/2024 12:10	14802	TREI_T2	0	1	1	0	0.4	0.4	0.31	0.33	0	0	0	0	0	0
10/26/2024 12:10	42701	AUGU_T1	1	2	1	0.5	0.45	-0.05	0	0	2	2	0	1800	1800	0
10/26/2024 12:10	15201	SFAR_T1	0	0	0	0	0	0	-0.88	-0.8	2	2	0	1800	1800	0
10/26/2024 12:10	14801	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/26/2024 12:11	20402	ASHF_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/26/2024 12:11	10903	COOP_T2	4	11	7	0.35	0.26	-0.09	-0.44	-0.46	1	1	0	600	600	0
10/26/2024 12:11	20401	ASHF_T2	4	5	1	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
10/26/2024 12:11	20403	ASHF_T2	5	4	-1	0.34	0.45	0.11	0.04	0.02	0	0	0	0	0	0
10/26/2024 12:12	20403	ASHF_T2	5	4	-1	0.34	0.45	0.11	0.04	0.02	0	0	0	0	0	0
10/26/2024 12:12	20401	ASHF_T2	4	5	1	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
10/26/2024 12:12	44802	EDAN_T2	0	0	0	0	0	0	-2.2	-2.18	0	0	0	0	0	0
10/26/2024 12:12	44801	EDAN_T2	3	5	2	1.4	2.13	0.73	0	0	0	0	0	0	0	0
10/26/2024 12:12	20402	ASHF_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/26/2024 12:12	15202	SFAR_T1	0	0	0	0	0	0	-0.42	-0.39	1	1	0	1200	1200	0
10/26/2024 12:13	44801	EDAN_T2	3	5	2	1.4	2.13	0.73	0	0	0	0	0	0	0	0
10/26/2024 12:13	44802	EDAN_T2	0	0	0	0	0	0	-2.2	-2.18	0	0	0	0	0	0
10/26/2024 12:13	12006	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/26/2024 12:13	12004	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/26/2024 12:13	12002	HATF_T1	1	1	0	1.1	2.4	1.3	0	0	0	0	0	0	0	0
10/26/2024 12:13	12001	HATF_T1	0	0	0	0	0	0	1.1	1.01	1	1	0	600	600	0
10/26/2024 12:14	44802	EDAN_T2	0	0	0	0	0	0	-4.4	-4.36	0	0	0	0	0	0
10/26/2024 12:14	44801	EDAN_T2	3	5	2	1.4	2.13	0.73	0	0	0	0	0	0	0	0
10/26/2024 12:15	12001	HATF_T1	0	0	0	0	0	0	1.1	1.01	1	1	0	600	600	0
10/26/2024 12:15	44801	EDAN_T2	4	3	-1	1.65	0.45	-1.2	-0.51	-0.52	0	0	0	0	0	0
10/26/2024 12:15	12002	HATF_T1	1	1	0	2.4	0	-2.4	0	0	0	0	0	0	0	0
10/26/2024 12:15	12006	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/26/2024 12:15	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
10/26/2024 12:15	12004	HATF_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
10/26/2024 12:15	44802	EDAN_T2	0	0	0	0	0	0	-2.2	-2.18	0	0	0	0	0	0
10/26/2024 12:16	44802	EDAN_T2	0	0	0	0	0	0	-2.2	-2.18	0	0	0	0	0	0
10/26/2024 12:16	64201	KINZ_T1	1	1	0	1	1	0	-0.66	-0.35	2	1	-1	1200	900	-300
10/26/2024 12:16	64204	KINZ_T1	3	24	21	0.67	0.41	-0.26	0	0	0	0	0	0	0	0
10/26/2024 12:16	64202	KINZ_T1	2	4	2	0.2	0.28	0.08	0	0	0	0	0	0	0	0
10/26/2024 12:16	44801	EDAN_T2	4	3	-1	1.65	0.45	-1.2	0	0	0	0	0	0	0	0
10/26/2024 12:17	58401	MORO_T1	0	0	0	0	0	0	-1.28	-1.33	1	1	0	600	600	0
10/26/2024 12:19	64305	LINC_T1	0	0	0	0	0	0	-0.67	-0.62	0	0	0	0	0	0
10/26/2024 12:20	58401	MORO_T1	0	0	0	0	0	0	-1.28	-1.33	1	1	0	600	600	0
10/26/2024 12:22	27605	PIRI_T2	0	0	0	0	0	0	-0.67	-0.74	1	1	0	900	900	0
10/26/2024 12:22	14601	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/26/2024 12:22	14603	SWHI_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
10/26/2024 12:22	14604	SWHI_T1	0	0	0	0	0	0	0.22	0.28	1	1	0	900	900	0
10/26/2024 12:24	14802	TREI_T2	1	1	0	0.4	0.4	0	0.66	0.66	0	0	0	0	0	0
10/26/2024 12:24	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/26/2024 12:25	20402	ASHF_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/26/2024 12:25	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/26/2024 12:25	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.11	0	0	0	0	0	0
10/26/2024 12:25	15203	SFAR_T2	1	50	49	0.1	0.15	0.05	-1.3	-1.28	0	0	0	0	0	0
10/26/2024 12:25	16101	BING_T2	0	1	1	0	0.2	0.2	0.33	0.31	0	0	0	0	0	0
10/26/2024 12:25	20401	ASHF_T2	2	5	3	0.15	0.28	0.13	-0.37	-0.42	0	0	0	0	0	0
10/26/2024 12:25	16103	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/26/2024 12:25	15204	SFAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/26/2024 12:25	20403	ASHF_T2	2	5	3	0.1	0.46	0.36	0	0	0	0	0	0	0	0
10/26/2024 12:26	14802	TREI_T2	1	1	0	0.4	0.4	0	0.33	0.33	0	0	0	0	0	0
10/26/2024 12:26	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/26/2024 12:27	46002	BERW_T2	0	0	0	0	0	0	-1.55	-1.56	1	1	0	900	900	0
10/26/2024 12:27	16101	BING_T2	0	1	1	0	0.2	0.2	0.33	0.31	0	0	0	0	0	0
10/26/2024 12:27	16103	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/26/2024 12:27	15204	SFAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/26/2024 12:27	15203	SFAR_T2	1	50	49	0.1	0.15	0.05	-1.3	-1.28	0	0	0	0	0	0
10/26/2024 12:27	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/26/2024 12:28	48902	FOSP_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/26/2024 12:28	48901	FOSP_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
10/26/2024 12:29	12004	HATF_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/26/2024 12:29	12002	HATF_T1	1	1	0	2.4	0	-2.4	-0.23	-0.28	1	1	0	1200	1200	0
10/26/2024 12:29	12006	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/26/2024 12:29	48902	FOSP_T2	1	1	0	0.2	0.3	0.1	-0.37	-0.36	0	0	0	0	0	0
10/26/2024 12:30	11205	ELHE_T1	0	0	0	0	0	0	-1.03	-0.93	1	1	0	1200	1200	0
10/26/2024 12:31	48902	FOSP_T2	1	0	-1	0.3	0	-0.3	-0.37	-0.36	0	0	0	0	0	0
10/26/2024 12:33	44801	EDAN_T2	3	2	-1	2.1	0.6	-1.5	-0.52	-0.5	0	0	0	0	0	0
10/26/2024 12:37	14802	TREI_T2	1	1	0	0.4	0.4	0	0.33	0.34	0	0	0	0	0	0
10/26/2024 12:37	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/26/2024 12:38	43103	SMIL_T2	8	8	0	0.44	0.48	0.04	0	0	0	0	0	0	0	0
10/26/2024 12:38	43102	SMIL_T2	4	4	0	0.45	0.58	0.13	-0.83	-0.86	1	1	0	600	600	0
10/26/2024 12:38	43105	SMIL_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
10/26/2024 12:38	43101	SMIL_T2	1	2	1	0.5	0.75	0.25	0	0	0	0	0	0	0	0
10/26/2024 12:38	43104	SMIL_T2	3	3	0	0.43	0.23	-0.2	0	0	0	0	0	0	0	0
10/26/2024 12:39	14802	TREI_T2	1	1	0	0.4	0.4	0	0.33	0.34	0	0	0	0	0	0
10/26/2024 12:39	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/26/2024 12:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 12:42	14802	TREI_T2	1	1	0	0.4	0.4	0	0.33	0.34	0	0	0	0	0	0
10/26/2024 12:42	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/26/2024 12:43	14802	TREI_T2	1	1	0	0.4	0.4	0	0.33	0.34	0	0	0	0	0	0
10/26/2024 12:43	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/26/2024 12:44	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 12:45	63501	HEID_TBK1-2	1	2	1	0.7	0.55	-0.15	0.41	0.44	0	0	0	0	0	0
10/26/2024 12:46	59301	MCAL_T1	61	53	-8	0.44	0.36	-0.08	-1.19	-1.2	0	0	0	0	0	0
10/26/2024 12:46	59302	MCAL_T1	2	4	2	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
10/26/2024 12:47	59301	MCAL_T1	61	53	-8	0.44	0.36	-0.08	-1.19	-1.2	0	0	0	0	0	0
10/26/2024 12:47	59302	MCAL_T1	2	4	2	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
10/26/2024 12:48	59301	MCAL_T1	61	53	-8	0.44	0.36	-0.08	0	0	0	0	0	0	0	0
10/26/2024 12:48	59302	MCAL_T1	2	4	2	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
10/26/2024 12:48	63501	HEID_TBK1-2	1	2	1	0.7	0.55	-0.15	0.41	0.44	0	0	0	0	0	0
10/26/2024 12:49	59301	MCAL_T1	61	53	-8	0.44	0.36	-0.08	-1.19	-1.2	0	0	0	0	0	0
10/26/2024 12:49	59302	MCAL_T1	2	4	2	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
10/26/2024 12:50	59301	MCAL_T1	61	53	-8	0.44	0.36	-0.08	-1.19	-1.2	0	0	0	0	0	0
10/26/2024 12:50	67703	WERN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/26/2024 12:50	59302	MCAL_T1	2	4	2	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
10/26/2024 12:50	58401	MORO_T1	0	0	0	0	0	0	-1.31	-1.29	1	1	0	600	600	0
10/26/2024 12:51	27603	PIRI_T2	0	0	0	0	0	0	-1.4	-1.41	2	2	0	1800	1800	0
10/26/2024 12:52	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.29	1	1	0	600	600	0
10/26/2024 12:53	67703	WERN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/26/2024 12:56	15201	SFAR_T1	0	0	0	0	0	0	-0.71	-0.8	2	2	0	1800	1800	0
10/26/2024 13:09	59202	THOM_T1	908	968	60	0.64	0.8	0.16	0	0	0	0	0	0	0	0
10/26/2024 13:09	59201	THOM_T1	84	108	24	0.58	0.68	0.1	0	0	0	0	0	0	0	0
10/26/2024 13:10	15001	BLMO_T1	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
10/26/2024 13:10	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 13:11	67402	WAKE_T2	0	0	0	0	0	0	-0.43	-0.48	1	1	0	600	600	0
10/26/2024 13:12	46004	BERW_T2	0	1	1	0	0.1	0.1	-0.84	-0.84	0	0	0	0	0	0
10/26/2024 13:12	15001	BLMO_T1	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
10/26/2024 13:13	45902	AUBU_T1	3	7	4	0.53	0.54	0.01	-0.02	-0.02	1	1	0	600	600	0
10/26/2024 13:13	45901	AUBU_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/26/2024 13:13	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 13:14	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 13:15	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 13:15	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 13:15	44502	HAMI_T2	2	1	-1	1.25	2.7	1.45	0	0	0	0	0	0	0	0
10/26/2024 13:16	45901	AUBU_T1	2	1	-1	0.25	0.5	0.25	0.93	0.95	0	0	0	0	0	0
10/26/2024 13:16	45902	AUBU_T1	5	7	2	0.44	0.54	0.1	0	0	0	0	0	0	0	0
10/26/2024 13:17	44505	HAMI_T2	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
10/26/2024 13:17	44502	HAMI_T2	2	1	-1	1.25	2.7	1.45	0	0	0	0	0	0	0	0
10/26/2024 13:25	42201	SHEN_T2	4	5	1	0.5	0.42	-0.08	0.33	0.32	0	0	0	0	0	0
10/26/2024 13:31	16901	MECK_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
10/26/2024 13:31	16902	MECK_T1	1	2	1	0.3	0.5	0.2	0.06	0.06	0	0	0	0	0	0
10/26/2024 13:35	13303	ORVI_T1	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
10/26/2024 13:36	44902	SCOT_T2	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
10/26/2024 13:36	44901	SCOT_T2	2	1	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/26/2024 13:39	67402	WAKE_T2	0	0	0	0	0	0	-0.49	-0.47	1	1	0	600	600	0
10/26/2024 13:40	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 13:43	67605	WARW_T1	2	6	4	0.55	0.35	-0.2	-1.24	-1.23	0	0	0	0	0	0
10/26/2024 13:50	46101	MACI_T2	0	0	0	0	0	0	0.64	0.67	0	0	0	0	0	0
10/26/2024 13:53	43102	SMIL_T2	5	6	1	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
10/26/2024 13:53	43104	SMIL_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
10/26/2024 13:53	43105	SMIL_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
10/26/2024 13:53	43103	SMIL_T2	21	20	-1	0.4	0.53	0.13	-0.99	-0.98	0	0	0	0	0	0
10/26/2024 13:53	43101	SMIL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/26/2024 13:55	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 13:57	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 13:59	67402	WAKE_T2	0	0	0	0	0	0	-0.47	-0.47	1	1	0	600	600	0
10/26/2024 14:03	16901	MECK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/26/2024 14:03	16902	MECK_T1	2	1	-1	0.5	0.6	0.1	0.06	0.06	0	0	0	0	0	0
10/26/2024 14:09	15001	BLMO_T1	2	1	-1	0.55	0.6	0.05	0	0	0	0	0	0	0	0
10/26/2024 14:09	44901	SCOT_T2	1	1	0	0.4	0.4	0	-0.4	-0.55	0	0	0	0	0	0
10/26/2024 14:11	59202	THOM_T1	961	973	12	0.75	0.78	0.03	0	0	0	0	0	0	0	0
10/26/2024 14:11	59201	THOM_T1	119	119	0	0.61	0.66	0.05	0	0	0	0	0	0	0	0
10/26/2024 14:13	17805	GILB_T2	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/26/2024 14:13	17804	GILB_T2	3	3	0	0.47	0.47	0	-0.58	-0.59	0	0	0	0	0	0
10/26/2024 14:15	17802	GILB_T1	3	3	0	0.6	0.67	0.07	0.03	0.04	0	0	0	0	0	0
10/26/2024 14:16	40702	FELD_T1	15	18	3	0.21	0.24	0.03	-1.35	-1.38	1	1	0	1200	1200	0
10/26/2024 14:17	45802	HEGI_T2	48	49	1	2.18	1.48	-0.7	0	0	0	0	0	0	0	0
10/26/2024 14:18	21606	EYNO_T1	0	0	0	0	0	0	-1.37	-1.33	1	1	0	1200	1200	0
10/26/2024 14:19	28703	HAML_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/26/2024 14:19	28701	HAML_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/26/2024 14:19	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/26/2024 14:24	14705	TREX_T1	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
10/26/2024 14:24	14704	TREX_T1	1	1	0	2	0.7	-1.3	0	0	0	0	0	0	0	0
10/26/2024 14:31	24702	FLND_T2	1	2	1	0.5	0.35	-0.15	-0.27	-0.45	1	1	0	1200	1200	0
10/26/2024 14:33	64201	KINZ_T1	1	7	6	1	0.29	-0.71	-0.76	-0.8	2	2	0	1800	1800	0
10/26/2024 14:33	64202	KINZ_T1	2	3	1	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
10/26/2024 14:33	64204	KINZ_T1	2	7	5	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
10/26/2024 14:35	59402	RFLD_T2	2	1	-1	0.2	0.2	0	-0.85	-0.84	1	1	0	450	450	0
10/26/2024 14:38	67401	WAKE_T2	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
10/26/2024 14:42	42701	AUGU_T1	2	2	0	0.4	0.55	0.15	0	0	2	2	0	1800	1800	0
10/26/2024 14:42	67401	WAKE_T2	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
10/26/2024 14:47	23401	HONE_T2	2	0	-2	0.25	0	-0.25	-0.2	-0.24	0	0	0	0	0	0
10/26/2024 14:56	61702	ELIZ_T2	2	3	1	0.85	0.83	-0.02	0	0	0	0	0	0	0	0
10/26/2024 14:56	61704	ELIZ_T2	5	5	0	0.58	0.64	0.06	0	0	0	0	0	0	0	0
10/26/2024 14:59	21901	HUMB_T1	0	0	0	0	0	0	-2.22	-2.31	0	0	0	0	0	0
10/26/2024 15:00	61703	ELIZ_T1	3	4	1	0.13	0.2	0.07	-7.74	-6.99	6	6	0	6300	6300	0
10/26/2024 15:00	61701	ELIZ_T1	2	2	0	3.25	3.1	-0.15	0	0	0	0	0	0	0	0
10/26/2024 15:01	61703	ELIZ_T1	3	4	1	0.13	0.2	0.07	-2.58	-2.33	2	2	0	2100	2100	0
10/26/2024 15:01	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/26/2024 15:01	61701	ELIZ_T1	2	2	0	3.25	3.1	-0.15	0	0	0	0	0	0	0	0
10/26/2024 15:01	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/26/2024 15:01	61702	ELIZ_T2	3	2	-1	0.83	0.9	0.07	-2.1	-2.08	2	2	0	1500	1500	0
10/26/2024 15:01	54502	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/26/2024 15:01	54504	ENOL_T2	0	0	0	0	0	0	-1.18	-1.17	1	1	0	600	600	0
10/26/2024 15:01	61704	ELIZ_T2	5	5	0	0.64	0.58	-0.06	0	0	0	0	0	0	0	0
10/26/2024 15:09	42701	AUGU_T1	2	2	0	0.55	0.75	0.2	0	0	2	2	0	1800	1800	0
10/26/2024 15:10	20403	ASHF_T2	1	5	4	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/26/2024 15:10	15203	SFAR_T2	5	79	74	0.5	0.21	-0.29	-1.3	-1.29	0	0	0	0	0	0
10/26/2024 15:10	60101	COCA_T1	1	3	2	0.3	0.2	-0.1	0.21	0.22	0	0	0	0	0	0
10/26/2024 15:10	20401	ASHF_T2	2	21	19	0.2	0.22	0.02	0	0	0	0	0	0	0	0
10/26/2024 15:11	15203	SFAR_T2	5	79	74	0.5	0.21	-0.29	-1.3	-1.29	0	0	0	0	0	0
10/26/2024 15:11	42701	AUGU_T1	2	2	0	0.55	0.75	0.2	0	0	2	2	0	1800	1800	0
10/26/2024 15:11	60101	COCA_T1	1	3	2	0.3	0.2	-0.1	0.21	0.22	0	0	0	0	0	0
10/26/2024 15:12	42701	AUGU_T1	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
10/26/2024 15:13	15203	SFAR_T2	5	79	74	0.5	0.21	-0.29	-2.6	-2.58	0	0	0	0	0	0
10/26/2024 15:14	60101	COCA_T1	1	3	2	0.3	0.2	-0.1	0.21	0.22	0	0	0	0	0	0
10/26/2024 15:15	60101	COCA_T1	3	2	-1	0.2	0.1	-0.1	0.43	0.44	0	0	0	0	0	0
10/26/2024 15:15	60102	COCA_T1	0	0	0	0	0	0	-0.31	-0.32	2	2	0	1200	1200	0
10/26/2024 15:24	42701	AUGU_T1	2	1	-1	0.75	1	0.25	0	0	2	2	0	1800	1800	0
10/26/2024 15:25	27503	WEIS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/26/2024 15:25	27502	WEIS_T2	5	5	0	0.64	0.92	0.28	-0.75	-0.77	0	0	0	0	0	0
10/26/2024 15:28	24702	FLND_T2	2	0	-2	0.35	0	-0.35	-0.55	-0.57	1	1	0	1200	1200	0
10/26/2024 15:30	20201	JERM_T1	0	0	0	0	0	0	1.56	1.43	0	0	0	0	0	0
10/26/2024 15:32	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/26/2024 15:33	65502	MOJO_T2	0	0	0	0	0	0	-1	-1.06	0	0	0	0	0	0
10/26/2024 15:34	13303	ORVI_T1	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
10/26/2024 15:37	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 15:37	24603	VARD_T2	10	9	-1	0.57	0.47	-0.1	0	0	0	0	0	0	0	0
10/26/2024 15:37	24602	VARD_T2	129	3	-126	2.63	0.7	-1.93	0	0	0	0	0	0	0	0
10/26/2024 15:37	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 15:39	27502	WEIS_T2	5	4	-1	0.66	1.13	0.47	-0.77	-0.78	0	0	0	0	0	0
10/26/2024 15:39	20103	AVOC_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
10/26/2024 15:46	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/26/2024 15:58	20102	AVOC_T1	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
10/26/2024 16:06	16504	STRO_T1	0	0	0	0	0	0	0.57	0.6	0	0	0	0	0	0
10/26/2024 16:09	14601	SWHI_T1	0	1	1	0	0	0	-1.86	-1.86	0	0	0	0	0	0
10/26/2024 16:09	16504	STRO_T1	0	0	0	0	0	0	0.57	0.6	0	0	0	0	0	0
10/26/2024 16:09	14602	SWHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/26/2024 16:11	20103	AVOC_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
10/26/2024 16:47	20603	GRWO_T2	8	9	1	0.3	0.26	-0.04	0.32	0.3	0	0	0	0	0	0
10/26/2024 16:48	46602	LACR_T1	0	0	0	0	0	0	-1.3	-1.23	0	0	0	0	0	0
10/26/2024 17:03	46101	MACI_T2	1	1	0	0.2	0.4	0.2	0.65	0.66	0	0	0	0	0	0
10/26/2024 17:04	12004	HATF_T1	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/26/2024 17:04	12002	HATF_T1	1	1	0	1.2	0.5	-0.7	-0.28	-0.29	1	1	0	1200	1200	0
10/26/2024 17:04	12005	HATF_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/26/2024 17:04	12006	HATF_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
10/26/2024 17:25	28102	TWLA_T2	12	15	3	0.46	0.39	-0.07	0.19	0.19	0	0	0	0	0	0
10/26/2024 19:39	59402	RFLD_T2	0	0	0	0	0	0	-0.91	-0.94	1	1	0	450	450	0
10/26/2024 19:59	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/26/2024 20:00	17805	GILB_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
10/26/2024 20:01	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/26/2024 20:01	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
10/26/2024 20:04	17805	GILB_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
10/26/2024 20:04	15702	TANN_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/26/2024 20:04	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:04	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
10/26/2024 20:04	25402	LAHA_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
10/26/2024 20:05	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
10/26/2024 20:06	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:06	24902	WHHA_T1	8	13	5	0.76	0.35	-0.41	0.71	0.71	0	0	0	0	0	0
10/26/2024 20:06	17802	GILB_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
10/26/2024 20:07	15603	NSTR_T2	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
10/26/2024 20:07	15201	SFAR_T1	0	0	0	0	0	0	-0.15	-0.2	1	1	0	1200	1200	0
10/26/2024 20:07	61702	ELIZ_T2	0	0	0	0	0	0	-0.82	-0.79	1	1	0	300	300	0
10/26/2024 20:07	27502	WEIS_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
10/26/2024 20:07	16102	BING_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/26/2024 20:07	16101	BING_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
10/26/2024 20:08	15201	SFAR_T1	0	0	0	0	0	0	-0.15	-0.2	1	1	0	1200	1200	0
10/26/2024 20:08	16902	MECK_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
10/26/2024 20:08	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/26/2024 20:09	13303	ORVI_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
10/26/2024 20:09	16101	BING_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
10/26/2024 20:09	27502	WEIS_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
10/26/2024 20:09	46002	BERW_T2	0	0	0	0	0	0	-1.58	-1.57	1	1	0	900	900	0
10/26/2024 20:09	27605	PIRI_T2	0	0	0	0	0	0	-0.74	-0.87	1	1	0	900	900	0
10/26/2024 20:09	42601	TUSC_T1	1	1	0	0	0.2	0.2	-0.56	-0.54	2	2	0	1800	1800	0
10/26/2024 20:09	16102	BING_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/26/2024 20:09	46004	BERW_T2	2	1	-1	2.4	0	-2.4	0	0	0	0	0	0	0	0
10/26/2024 20:10	45901	AUBU_T1	0	0	0	0	0	0	0.94	0.9	0	0	0	0	0	0
10/26/2024 20:10	20102	AVOC_T1	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
10/26/2024 20:10	20403	ASHF_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
10/26/2024 20:10	15203	SFAR_T2	1	63	62	0.1	0.13	0.03	-1.34	-1.38	0	0	0	0	0	0
10/26/2024 20:10	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
10/26/2024 20:10	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/26/2024 20:10	12001	HATF_T1	0	0	0	0	0	0	0.88	0.92	1	1	0	600	600	0
10/26/2024 20:10	24902	WHHA_T1	8	13	5	0.76	0.35	-0.41	0.71	0.71	0	0	0	0	0	0
10/26/2024 20:10	12002	HATF_T1	1	1	0	3.1	3	-0.1	0	0	0	0	0	0	0	0
10/26/2024 20:10	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:10	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
10/26/2024 20:10	20401	ASHF_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
10/26/2024 20:10	42201	SHEN_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/26/2024 20:10	45902	AUBU_T1	0	0	0	0	0	0	-0.08	-0.11	1	1	0	600	600	0
10/26/2024 20:10	12005	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/26/2024 20:10	42204	SHEN_T2	0	0	0	0	0	0	-0.83	-0.84	1	1	0	1200	1200	0
10/26/2024 20:11	63501	HEID_TBK1-2	13	36	23	0.28	0.34	0.06	0.32	0.36	0	0	0	0	0	0
10/26/2024 20:11	60101	COCA_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
10/26/2024 20:11	15203	SFAR_T2	1	63	62	0.1	0.13	0.03	-1.34	-1.38	0	0	0	0	0	0
10/26/2024 20:11	42601	TUSC_T1	1	1	0	0	0.2	0.2	-0.56	-0.54	2	2	0	1800	1800	0
10/26/2024 20:11	45901	AUBU_T1	0	0	0	0	0	0	0.94	0.9	0	0	0	0	0	0
10/26/2024 20:11	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/26/2024 20:11	59201	THOM_T1	45	63	18	0.42	0.48	0.06	0	0	0	0	0	0	0	0
10/26/2024 20:11	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
10/26/2024 20:11	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
10/26/2024 20:11	15201	SFAR_T1	0	0	0	0	0	0	-0.15	-0.2	1	1	0	1200	1200	0
10/26/2024 20:11	14802	TREI_T2	0	0	0	0	0	0	0.81	0.84	0	0	0	0	0	0
10/26/2024 20:11	59202	THOM_T1	410	500	90	0.47	0.56	0.09	0	0	0	0	0	0	0	0
10/26/2024 20:12	45902	AUBU_T1	0	0	0	0	0	0	-0.16	-0.22	2	2	0	1200	1200	0
10/26/2024 20:12	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:12	43102	SMIL_T2	0	1	1	0	0.1	0.1	-0.9	-0.93	1	1	0	600	600	0
10/26/2024 20:12	20603	GRWO_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
10/26/2024 20:12	10903	COOP_T2	33	84	51	0.17	0.22	0.05	-0.46	-0.49	1	1	0	600	600	0
10/26/2024 20:12	20103	AVOC_T1	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
10/26/2024 20:12	20201	JERM_T1	0	0	0	0	0	0	1.38	1.51	0	0	0	0	0	0
10/26/2024 20:12	15203	SFAR_T2	1	63	62	0.1	0.13	0.03	-2.68	-2.76	0	0	0	0	0	0
10/26/2024 20:12	11202	ELHE_T2	0	0	0	0	0	0	0.42	0.42	1	1	0	1200	1200	0
10/26/2024 20:12	24702	FLND_T2	0	0	0	0	0	0	-0.57	-0.54	1	1	0	1200	1200	0
10/26/2024 20:12	29402	BELT_T1	1	1	0	8	8	0	0	0	0	0	0	0	0	0
10/26/2024 20:12	23401	HONE_T2	0	0	0	0	0	0	-0.18	-0.22	0	0	0	0	0	0
10/26/2024 20:13	15203	SFAR_T2	1	63	62	0.1	0.13	0.03	-1.34	-1.38	0	0	0	0	0	0
10/26/2024 20:13	24902	WHHA_T1	8	13	5	0.76	0.35	-0.41	0.71	0.71	0	0	0	0	0	0
10/26/2024 20:13	42701	AUGU_T1	1	1	0	1	1	0	0	0	2	2	0	1800	1800	0
10/26/2024 20:13	60101	COCA_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
10/26/2024 20:13	67605	WARW_T1	10	14	4	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
10/26/2024 20:13	65601	QVIL_T2	0	0	0	0	0	0	-1.32	-1.35	1	1	0	900	900	0
10/26/2024 20:13	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/26/2024 20:13	46602	LACR_T1	0	0	0	0	0	0	-1.26	-1.24	0	0	0	0	0	0
10/26/2024 20:13	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
10/26/2024 20:13	67603	WARW_T1	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
10/26/2024 20:13	66703	STRA_T1	0	0	0	0	0	0	-0.39	-0.35	0	0	0	0	0	0
10/26/2024 20:14	48302	ORWI_T2	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0	0
10/26/2024 20:14	10801	CHHI_T1	0	0	0	0	0	0	-1.72	-1.73	2	2	0	1500	1500	0
10/26/2024 20:14	64202	KINZ_T1	3	9	6	0.83	0.56	-0.27	0	0	0	0	0	0	0	0
10/26/2024 20:14	59201	THOM_T1	45	63	18	0.42	0.48	0.06	0	0	0	0	0	0	0	0
10/26/2024 20:14	64203	KINZ_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/26/2024 20:14	14601	SWHI_T1	0	0	0	0	0	0	-0.94	-0.96	0	0	0	0	0	0
10/26/2024 20:14	46101	MACI_T2	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
10/26/2024 20:14	59202	THOM_T1	410	500	90	0.47	0.56	0.09	0	0	0	0	0	0	0	0
10/26/2024 20:14	67402	WAKE_T2	0	0	0	0	0	0	-0.5	-0.54	1	1	0	600	600	0
10/26/2024 20:14	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:14	60102	COCA_T1	0	0	0	0	0	0	-0.65	-0.59	2	2	0	1200	1200	0
10/26/2024 20:14	15203	SFAR_T2	1	63	62	0.1	0.13	0.03	-2.68	-2.76	0	0	0	0	0	0
10/26/2024 20:14	64201	KINZ_T1	6	9	3	0.35	0.36	0.01	-1.98	-2.06	6	6	0	3600	3600	0
10/26/2024 20:14	44802	EDAN_T2	0	0	0	0	0	0	-2.34	-2.33	0	0	0	0	0	0
10/26/2024 20:14	21901	HUMB_T1	0	0	0	0	0	0	-2.28	-2.29	0	0	0	0	0	0
10/26/2024 20:14	44801	EDAN_T2	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:14	64204	KINZ_T1	1	4	3	1.3	0.43	-0.87	0	0	0	0	0	0	0	0
10/26/2024 20:14	45501	DERR_T2	0	0	0	0	0	0	-0.74	-0.74	2	2	0	1800	1800	0
10/26/2024 20:14	63501	HEID_TBK1-2	13	36	23	0.28	0.34	0.06	0.32	0.36	0	0	0	0	0	0
10/26/2024 20:15	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
10/26/2024 20:15	64602	LEOL_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
10/26/2024 20:15	64203	KINZ_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/26/2024 20:15	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:15	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:15	44802	EDAN_T2	0	0	0	0	0	0	-2.34	-2.33	0	0	0	0	0	0
10/26/2024 20:15	64202	KINZ_T1	9	6	-3	0.56	0.38	-0.18	0	0	0	0	0	0	0	0
10/26/2024 20:15	42701	AUGU_T1	1	1	0	1	0.9	-0.1	0	0	2	2	0	1800	1800	0
10/26/2024 20:15	60101	COCA_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
10/26/2024 20:15	15202	SFAR_T1	0	0	0	0	0	0	-0.57	-0.6	1	1	0	1200	1200	0
10/26/2024 20:15	24602	VARD_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
10/26/2024 20:15	61701	ELIZ_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
10/26/2024 20:15	61703	ELIZ_T1	0	0	0	0	0	0	-2.57	-2.53	2	2	0	2100	2100	0
10/26/2024 20:15	64204	KINZ_T1	4	4	0	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
10/26/2024 20:15	64201	KINZ_T1	5	9	4	0.5	0.34	-0.16	-0.66	-0.69	2	2	0	1200	1200	0
10/26/2024 20:15	24603	VARD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:15	14802	TREI_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
10/26/2024 20:16	61701	ELIZ_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
10/26/2024 20:16	15204	SFAR_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
10/26/2024 20:16	14601	SWHI_T1	0	0	0	0	0	0	-0.94	-0.96	0	0	0	0	0	0
10/26/2024 20:16	66505	SMAN_T2	3	3	0	1.2	1.33	0.13	0	0	0	0	0	0	0	0
10/26/2024 20:16	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:16	54505	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/26/2024 20:16	12002	HATF_T1	1	1	0	3.1	2.8	-0.3	-0.3	-0.32	1	1	0	1200	1200	0
10/26/2024 20:16	12005	HATF_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/26/2024 20:16	15203	SFAR_T2	63	7	-56	0.13	0.1	-0.03	-1.34	-1.38	0	0	0	0	0	0
10/26/2024 20:16	45902	AUBU_T1	0	0	0	0	0	0	-0.08	-0.11	1	1	0	600	600	0
10/26/2024 20:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:16	61703	ELIZ_T1	0	0	0	0	0	0	-2.57	-2.53	2	2	0	2100	2100	0
10/26/2024 20:16	45501	DERR_T2	0	0	0	0	0	0	-0.74	-0.74	2	2	0	1800	1800	0
10/26/2024 20:16	66502	SMAN_T2	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
10/26/2024 20:16	24702	FLND_T2	0	0	0	0	0	0	-0.57	-0.34	1	1	0	1200	1200	0
10/26/2024 20:16	54504	ENOL_T2	0	0	0	0	0	0	-1.18	-1.18	1	1	0	600	600	0
10/26/2024 20:16	21206	ECAR_T2	1	1	0	7.6	7.5	-0.1	1.17	1.2	0	0	0	0	0	0
10/26/2024 20:16	17804	GILB_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
10/26/2024 20:17	59201	THOM_T1	54	62	8	0.49	0.48	-0.01	0	0	0	0	0	0	0	0
10/26/2024 20:17	59302	MCAL_T1	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
10/26/2024 20:17	22903	HARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/26/2024 20:17	22901	HARW_T1	0	0	0	0	0	0	-2.06	-2	1	1	0	1200	1200	0
10/26/2024 20:17	66505	SMAN_T2	3	3	0	1.2	1.33	0.13	0	0	0	0	0	0	0	0
10/26/2024 20:17	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:17	22905	HARW_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:17	20603	GRWO_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
10/26/2024 20:17	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:17	54501	ENOL_T2	0	0	0	0	0	0	-0.58	-0.57	1	1	0	600	600	0
10/26/2024 20:17	14802	TREI_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
10/26/2024 20:17	59301	MCAL_T1	20	31	11	0.27	0.22	-0.05	-1.32	-1.32	0	0	0	0	0	0
10/26/2024 20:17	44802	EDAN_T2	0	0	0	0	0	0	-2.34	-2.33	0	0	0	0	0	0
10/26/2024 20:17	46004	BERW_T2	0	1	1	0	0	0	-0.86	-0.87	0	0	0	0	0	0
10/26/2024 20:17	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:17	15203	SFAR_T2	63	7	-56	0.13	0.1	-0.03	-1.34	-1.38	0	0	0	0	0	0
10/26/2024 20:17	46101	MACI_T2	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
10/26/2024 20:17	54505	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/26/2024 20:17	42601	TUSC_T1	1	1	0	0.2	0.2	0	-0.56	-0.54	2	2	0	1800	1800	0
10/26/2024 20:17	27603	PIRI_T2	0	0	0	0	0	0	-1.65	-1.63	2	2	0	1800	1800	0
10/26/2024 20:17	59202	THOM_T1	463	483	20	0.53	0.56	0.03	0	0	0	0	0	0	0	0
10/26/2024 20:17	20401	ASHF_T2	2	2	0	0.25	0.25	0	-0.41	-0.47	0	0	0	0	0	0
10/26/2024 20:18	25501	MADI_T1	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/26/2024 20:18	13303	ORVI_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
10/26/2024 20:18	40703	FFLD_T1	3	4	1	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
10/26/2024 20:18	44801	EDAN_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
10/26/2024 20:18	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/26/2024 20:18	59201	THOM_T1	54	62	8	0.49	0.48	-0.01	0	0	0	0	0	0	0	0
10/26/2024 20:18	67402	WAKE_T2	0	0	0	0	0	0	-0.5	-0.54	1	1	0	600	600	0
10/26/2024 20:18	42701	AUGU_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
10/26/2024 20:18	10801	CHHI_T1	0	0	0	0	0	0	-1.72	-1.73	2	2	0	1500	1500	0
10/26/2024 20:18	67401	WAKE_T2	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
10/26/2024 20:18	12005	HATF_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/26/2024 20:18	59202	THOM_T1	463	483	20	0.53	0.56	0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/26/2024 20:18	63501	HEID_TBK1-2	34	36	2	0.26	0.33	0.07	0.32	0.36	0	0	0	0	0	0
10/26/2024 20:18	12006	HATF_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
10/26/2024 20:18	59302	MCAL_T1	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
10/26/2024 20:18	40702	FFLD_T1	178	173	-5	0.4	0.35	-0.05	-1.37	-1.33	1	1	0	1200	1200	0
10/26/2024 20:18	65503	MOJO_T2	112	22	-90	0.14	0.1	-0.04	-0.53	-0.5	0	0	0	0	0	0
10/26/2024 20:18	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:18	20103	AVOC_T1	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
10/26/2024 20:18	25503	MADI_T1	0	0	0	0	0	0	-0.95	-0.43	0	0	0	0	0	0
10/26/2024 20:18	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
10/26/2024 20:18	40701	FFLD_T1	43	35	-8	0.35	0.36	0.01	0	0	0	0	0	0	0	0
10/26/2024 20:18	65502	MOJO_T2	273	228	-45	0.22	0.16	-0.06	0	0	0	0	0	0	0	0
10/26/2024 20:18	59301	MCAL_T1	20	31	11	0.27	0.22	-0.05	-1.32	-1.32	0	0	0	0	0	0
10/26/2024 20:18	12002	HATF_T1	1	1	0	3.1	2.8	-0.3	0	0	0	0	0	0	0	0
10/26/2024 20:19	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:19	20401	ASHF_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
10/26/2024 20:19	12001	HATF_T1	0	0	0	0	0	0	0.88	0.92	1	1	0	600	600	0
10/26/2024 20:19	12005	HATF_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/26/2024 20:19	12002	HATF_T1	1	1	0	3.1	2.8	-0.3	0	0	0	0	0	0	0	0
10/26/2024 20:19	60101	COCA_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
10/26/2024 20:19	64204	KINZ_T1	4	4	0	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
10/26/2024 20:19	20403	ASHF_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
10/26/2024 20:19	64202	KINZ_T1	9	6	-3	0.56	0.38	-0.18	0	0	0	0	0	0	0	0
10/26/2024 20:19	64201	KINZ_T1	5	9	4	0.5	0.34	-0.16	0	0	0	0	0	0	0	0
10/26/2024 20:19	60801	BUCK_T1	0	0	0	0	0	0	-0.23	-0.27	0	0	0	0	0	0
10/26/2024 20:19	55101	WERT_T1	0	0	0	0	0	0	-1.33	-1.34	1	1	0	600	600	0
10/26/2024 20:19	14802	TREI_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
10/26/2024 20:19	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:19	44905	SCOT_T1	1	1	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
10/26/2024 20:19	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:19	44801	EDAN_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
10/26/2024 20:19	45802	HEGI_T2	47	48	1	1.54	1.64	0.1	0	0	0	0	0	0	0	0
10/26/2024 20:19	64203	KINZ_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/26/2024 20:19	15203	SFAR_T2	63	7	-56	0.13	0.1	-0.03	-1.34	-1.38	0	0	0	0	0	0
10/26/2024 20:20	61701	ELIZ_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
10/26/2024 20:20	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:20	42701	AUGU_T1	1	1	0	1	0.9	-0.1	0	0	2	2	0	1800	1800	0
10/26/2024 20:20	63501	HEID_TBK1-2	34	36	2	0.26	0.33	0.07	0.32	0.36	0	0	0	0	0	0
10/26/2024 20:20	43102	SMIL_T2	1	0	-1	0.1	0	-0.1	-0.9	-0.93	1	1	0	600	600	0
10/26/2024 20:20	42201	SHEN_T2	2	0	-2	0.1	0	-0.1	0.3	0.3	0	0	0	0	0	0
10/26/2024 20:20	21606	EYNO_T1	0	0	0	0	0	0	-1.43	-1.44	1	1	0	1200	1200	0
10/26/2024 20:20	44505	HAMI_T2	0	0	0	0	0	0	0.29	0.24	0	0	0	0	0	0
10/26/2024 20:20	44502	HAMI_T2	1	1	0	3.7	3.9	0.2	0	0	0	0	0	0	0	0
10/26/2024 20:20	21601	EYNO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/26/2024 20:20	67401	WAKE_T2	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
10/26/2024 20:20	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.38	0	0	0	0	0	0
10/26/2024 20:20	61703	ELIZ_T1	0	0	0	0	0	0	-5.14	-5.06	4	4	0	4200	4200	0
10/26/2024 20:20	44902	SCOT_T2	0	1	1	0	0	0	-0.97	-1.04	0	0	0	0	0	0
10/26/2024 20:21	59201	THOM_T1	54	62	8	0.49	0.48	-0.01	0	0	0	0	0	0	0	0
10/26/2024 20:21	59202	THOM_T1	463	483	20	0.53	0.56	0.03	0	0	0	0	0	0	0	0
10/26/2024 20:22	59302	MCAL_T1	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
10/26/2024 20:22	65503	MOJO_T2	112	22	-90	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
10/26/2024 20:22	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:22	46801	HEPB_T2	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
10/26/2024 20:22	13704	SCHN_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
10/26/2024 20:22	67605	WARW_T1	11	14	3	0.45	0.55	0.1	-1.22	-1.25	0	0	0	0	0	0
10/26/2024 20:22	65502	MOJO_T2	273	228	-45	0.22	0.16	-0.06	0	0	0	0	0	0	0	0
10/26/2024 20:22	59301	MCAL_T1	20	31	11	0.27	0.22	-0.05	-1.32	-1.32	0	0	0	0	0	0
10/26/2024 20:23	44802	EDAN_T2	0	0	0	0	0	0	-2.33	-2.35	0	0	0	0	0	0
10/26/2024 20:23	58401	MORO_T1	0	0	0	0	0	0	-2.62	-2.54	2	2	0	1200	1200	0
10/26/2024 20:23	65503	MOJO_T2	112	22	-90	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
10/26/2024 20:23	65502	MOJO_T2	273	228	-45	0.22	0.16	-0.06	-1.32	-1.34	0	0	0	0	0	0
10/26/2024 20:23	65601	OWIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:24	61702	ELIZ_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:24	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/26/2024 20:24	59302	MCAL_T1	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
10/26/2024 20:24	42701	AUGU_T1	1	1	0	1	0.9	-0.1	0	0	2	2	0	1800	1800	0
10/26/2024 20:24	14601	SWHI_T1	0	0	0	0	0	0	-0.96	-0.97	0	0	0	0	0	0
10/26/2024 20:24	59301	MCAL_T1	20	31	11	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
10/26/2024 20:25	58401	MORO_T1	0	0	0	0	0	0	-1.31	-1.27	1	1	0	600	600	0
10/26/2024 20:25	63501	HEID_TBK1-2	34	36	2	0.26	0.33	0.07	0.36	0.36	0	0	0	0	0	0
10/26/2024 20:25	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:25	55101	WERT_T1	0	0	0	0	0	0	-1.34	-1.38	1	1	0	600	600	0
10/26/2024 20:25	61701	ELIZ_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
10/26/2024 20:26	64201	KINZ_T1	5	9	4	0.5	0.34	-0.16	0	0	0	0	0	0	0	0
10/26/2024 20:26	64202	KINZ_T1	9	6	-3	0.56	0.38	-0.18	0	0	0	0	0	0	0	0
10/26/2024 20:26	58401	MORO_T1	0	0	0	0	0	0	-1.31	-1.27	1	1	0	600	600	0
10/26/2024 20:26	64203	KINZ_T1	3	0	-3	0.1	0	-0.1	-0.55	-0.58	1	1	0	600	600	0
10/26/2024 20:26	43102	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/26/2024 20:26	59302	MCAL_T1	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
10/26/2024 20:26	44905	SCOT_T1	1	1	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
10/26/2024 20:26	64204	KINZ_T1	4	4	0	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
10/26/2024 20:26	43103	SMIL_T2	0	0	0	0	0	0	-1.04	-1.05	0	0	0	0	0	0
10/26/2024 20:26	59301	MCAL_T1	20	31	11	0.27	0.22	-0.05	-1.32	-1.32	0	0	0	0	0	0
10/26/2024 20:27	65502	MOJO_T2	273	228	-45	0.22	0.16	-0.06	0	0	0	0	0	0	0	0
10/26/2024 20:27	65503	MOJO_T2	112	22	-90	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
10/26/2024 20:27	44902	SCOT_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:27	44901	SCOT_T2	0	0	0	0	0	0	-0.7	-0.73	0	0	0	0	0	0
10/26/2024 20:27	48902	FOSP_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
10/26/2024 20:27	48901	FOSP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:28	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2024 20:28	48901	FOSP_T2	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
10/26/2024 20:30	67402	WAKE_T2	0	0	0	0	0	0	-0.54	-0.55	1	1	0	600	600	0
10/26/2024 20:31	44801	EDAN_T2	0	0	0	0	0	0	-0.56	-0.55	0	0	0	0	0	0
10/26/2024 20:34	44802	EDAN_T2	0	0	0	0	0	0	-2.33	-2.35	0	0	0	0	0	0
10/26/2024 20:54	48902	FOSP_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
10/26/2024 20:55	44802	EDAN_T2	0	0	0	0	0	0	-2.32	-2.33	0	0	0	0	0	0
10/26/2024 22:08	28102	TWLA_T2	0	1	1	0	0.1	0.1	0.17	0.17	0	0	0	0	0	0
10/27/2024 7:50	13704	SCHN_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
10/27/2024 7:56	11603	CEAL_T1	1	0	-1	1.9	0	-1.9	0	0	0	0	0	0	0	0
10/27/2024 7:56	11604	CEAL_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 7:56	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/27/2024 8:00	40101	HUNT_T2	0	10	10	0	0.51	0.51	-0.69	-0.66	0	0	0	0	0	0
10/27/2024 8:18	40101	HUNT_T2	10	15	5	0.51	0.11	-0.4	-0.66	-0.68	0	0	0	0	0	0
10/27/2024 8:30	64201	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
10/27/2024 8:30	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	0.41	0.42	0	0	0	0	0	0
10/27/2024 8:30	64204	KINZ_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
10/27/2024 8:30	64203	KINZ_T1	0	0	0	0	0	0	-0.59	-0.52	1	1	0	600	600	0
10/27/2024 8:30	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/27/2024 8:41	45901	AUBU_T1	0	0	0	0	0	0	0.92	0.92	0	0	0	0	0	0
10/27/2024 8:48	13503	MCMI_T2	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
10/27/2024 8:49	25402	LAHA_T2	0	0	0	0	0	0	-0.77	-0.7	0	0	0	0	0	0
10/27/2024 8:54	44301	BEAV_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/27/2024 8:56	10101	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 9:00	13503	MCMI_T2	0	1	1	0	0.2	0.2	-0.86	-0.84	0	0	0	0	0	0
10/27/2024 9:06	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 9:07	59202	THOM_T1	291	471	180	0.31	0.36	0.05	0	0	0	0	0	0	0	0
10/27/2024 9:07	59201	THOM_T1	23	54	31	0.51	0.4	-0.11	0	0	0	0	0	0	0	0
10/27/2024 9:09	57201	ROSS_T1	0	0	0	0	0	0	-0.93	-0.86	0	0	0	0	0	0
10/27/2024 9:10	59201	THOM_T1	23	54	31	0.51	0.4	-0.11	0	0	0	0	0	0	0	0
10/27/2024 9:10	59202	THOM_T1	291	471	180	0.31	0.36	0.05	0	0	0	0	0	0	0	0
10/27/2024 9:21	57403	SPAN_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
10/27/2024 9:21	57401	SPAN_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
10/27/2024 9:22	24901	WHHA_T1	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
10/27/2024 9:22	24902	WHHA_T1	4	7	3	0.63	0.3	-0.33	0	0	0	0	0	0	0	0
10/27/2024 9:23	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
10/27/2024 9:27	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
10/27/2024 9:40	42701	AUGU_T1	1	1	0	0.2	1	0.8	0	0	2	2	0	1800	1800	0
10/27/2024 9:43	63501	HEID_TBK1-2	1	1	0	0.7	0.8	0.1	0.92	0.91	0	0	0	0	0	0
10/27/2024 9:44	54506	ENOL_T2	0	0	0	0	0	0	0.26	0.31	1	1	0	600	600	0
10/27/2024 9:44	54505	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/27/2024 9:46	63501	HEID_TBK1-2	1	1	0	0.7	0.8	0.1	0.46	0.46	0	0	0	0	0	0
10/27/2024 9:50	26703	HEML_T1	0	0	0	0	0	0	-0.88	-0.86	1	1	0	600	600	0
10/27/2024 9:54	64602	LEOL_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
10/27/2024 9:55	24902	WHHA_T1	5	5	0	1.34	0.1	-1.24	0.77	0.74	0	0	0	0	0	0
10/27/2024 9:55	24901	WHHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/27/2024 9:56	24902	WHHA_T1	5	5	0	1.34	0.1	-1.24	0.77	0.74	0	0	0	0	0	0
10/27/2024 9:56	24901	WHHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/27/2024 9:59	40602	PIGR_T1	1	1	0	2.3	2	-0.3	0	0	0	0	0	0	0	0
10/27/2024 9:59	63804	HEMP_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
10/27/2024 9:59	63801	HEMP_T1	0	0	0	0	0	0	-0.33	-0.42	0	0	0	0	0	0
10/27/2024 10:00	28102	TWLA_T2	2	3	1	0.2	0.13	-0.07	0.23	0.23	0	0	0	0	0	0
10/27/2024 10:00	57201	ROSS_T1	0	0	0	0	0	0	-0.87	-0.9	0	0	0	0	0	0
10/27/2024 10:00	67503	WEWI_T2	1	1	0	6.6	6.9	0.3	-0.27	-0.32	0	0	0	0	0	0
10/27/2024 10:00	15603	NSTR_T2	0	1	1	0	0.1	0.1	-0.57	-0.62	0	0	0	0	0	0
10/27/2024 10:00	64602	LEOL_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
10/27/2024 10:00	40504	CRES_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/27/2024 10:00	40602	PIGR_T1	0	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0
10/27/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
10/27/2024 10:02	63804	HEMP_T1	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
10/27/2024 10:02	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 10:02	63801	HEMP_T1	0	0	0	0	0	0	-0.33	-0.42	0	0	0	0	0	0
10/27/2024 10:03	12202	FOGE_T2	4	5	1	0.3	0.44	0.14	0	0	0	0	0	0	0	0
10/27/2024 10:08	57401	SPAN_T1	2	2	0	0.65	0.75	0.1	0	0	0	0	0	0	0	0
10/27/2024 10:08	59201	THOM_T1	63	100	37	0.44	0.53	0.09	0	0	0	0	0	0	0	0
10/27/2024 10:08	57403	SPAN_T1	2	5	3	0.1	0.12	0.02	0.04	0.04	0	0	0	0	0	0
10/27/2024 10:08	59202	THOM_T1	508	607	99	0.43	0.55	0.12	0	0	0	0	0	0	0	0
10/27/2024 10:09	42701	AUGU_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
10/27/2024 10:09	44502	HAMI_T2	2	2	0	1.85	1.75	-0.1	-0.96	-0.93	0	0	0	0	0	0
10/27/2024 10:09	44505	HAMI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/27/2024 10:10	45901	AUBU_T1	0	0	0	0	0	0	0.92	0.94	0	0	0	0	0	0
10/27/2024 10:10	42701	AUGU_T1	1	1	0	1	1.1	0.1	0	0	4	2	-2	3600	1200	-2400
10/27/2024 10:10	45902	AUBU_T1	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
10/27/2024 10:11	59202	THOM_T1	508	607	99	0.43	0.55	0.12	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/27/2024 10:11	42701	AUGU_T1	1	1	0	1	1.1	0.1	0	0	2	1	-1	1800	600	-1200
10/27/2024 10:11	59201	THOM_T1	63	100	37	0.44	0.53	0.09	0	0	0	0	0	0	0	0
10/27/2024 10:11	24902	WHHA_T1	3	3	0	0.67	0	-0.67	1.48	1.44	0	0	0	0	0	0
10/27/2024 10:11	24901	WHHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/27/2024 10:12	42701	AUGU_T1	1	1	0	1	1.1	0.1	0	0	2	1	-1	1800	600	-1200
10/27/2024 10:13	20603	GRWO_T2	3	5	2	1.17	0.66	-0.51	0.36	0.38	0	0	0	0	0	0
10/27/2024 10:14	41602	CLEV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/27/2024 10:15	45901	AUBU_T1	0	0	0	0	0	0	0.92	0.94	0	0	0	0	0	0
10/27/2024 10:15	45902	AUBU_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
10/27/2024 10:16	20603	GRWO_T2	5	6	1	0.34	0.6	0.26	0.36	0.38	0	0	0	0	0	0
10/27/2024 10:17	13503	MCMI_T2	13	8	-5	0.22	0.18	-0.04	-0.87	-0.87	0	0	0	0	0	0
10/27/2024 10:19	13503	MCMI_T2	13	8	-5	0.22	0.18	-0.04	-0.87	-0.87	0	0	0	0	0	0
10/27/2024 10:19	13303	ORVI_T1	0	4	4	0	0.15	0.15	0.64	0.67	0	0	0	0	0	0
10/27/2024 10:20	15602	NSTR_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
10/27/2024 10:20	59402	RFLD_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/27/2024 10:20	15603	NSTR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/27/2024 10:20	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 10:21	44905	SCOT_T1	1	2	1	1.4	0.6	-0.8	0	0	0	0	0	0	0	0
10/27/2024 10:22	13303	ORVI_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
10/27/2024 10:24	15703	TANN_T2	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
10/27/2024 10:24	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
10/27/2024 10:25	60803	BUCK_T1	6	3	-3	0.13	0.13	0	0	0	0	0	0	0	0	0
10/27/2024 10:25	15703	TANN_T2	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
10/27/2024 10:25	60801	BUCK_T1	1	0	-1	0.1	0	-0.1	-0.22	-0.21	0	0	0	0	0	0
10/27/2024 10:25	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
10/27/2024 10:26	44901	SCOT_T2	2	2	0	0.3	0.55	0.25	0	0	0	0	0	0	0	0
10/27/2024 10:26	44902	SCOT_T2	0	0	0	0	0	0	-0.93	-1.01	0	0	0	0	0	0
10/27/2024 10:26	45902	AUBU_T1	1	0	-1	0.6	1.4	0.8	-0.08	-0.01	1	1	0	600	600	0
10/27/2024 10:27	29402	BELT_T1	1	2	1	8	4.35	-3.65	0	0	0	0	0	0	0	0
10/27/2024 10:28	29402	BELT_T1	1	2	1	8	4.35	-3.65	0	0	0	0	0	0	0	0
10/27/2024 10:31	13503	MCMI_T2	8	0	-8	0.18	0	-0.18	-1.74	0.07	0	0	0	0	0	0
10/27/2024 10:31	63501	HEID_TBK1-2	1	1	0	1.3	1.1	-0.2	0.96	0.92	0	0	0	0	0	0
10/27/2024 10:32	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 10:33	65503	MOJO_T2	0	0	0	0	0	0	-0.43	-0.38	0	0	0	0	0	0
10/27/2024 10:33	27603	PIRI_T2	0	0	0	0	0	0	-1.76	-1.78	2	2	0	1800	1800	0
10/27/2024 10:33	65502	MOJO_T2	0	0	0	0	0	0	-0.94	-1.04	0	0	0	0	0	0
10/27/2024 10:33	22903	HARW_T1	6	15	9	0.18	0	-0.18	0	0	0	0	0	0	0	0
10/27/2024 10:33	22901	HARW_T1	0	3	3	0	0	0	-0.7	-0.71	1	1	0	1200	1200	0
10/27/2024 10:33	63501	HEID_TBK1-2	1	1	0	1.3	1.1	-0.2	0.48	0.46	0	0	0	0	0	0
10/27/2024 10:35	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
10/27/2024 10:37	13303	ORVI_T1	0	4	4	0	0.15	0.15	0.61	0.62	0	0	0	0	0	0
10/27/2024 10:38	66504	SMAN_T2	0	0	0	0	0	0	-1.07	-1.24	0	0	0	0	0	0
10/27/2024 10:44	45902	AUBU_T1	1	1	0	1.3	1.5	0.2	-0.01	0.01	2	2	0	1200	1200	0
10/27/2024 10:48	67805	WLAN_T1	0	0	0	0	0	0	-1.64	-1.61	0	0	0	0	0	0
10/27/2024 10:48	41801	GOCI_T2	2	4	2	0.35	0.43	0.08	0	0	0	0	0	0	0	0
10/27/2024 10:48	46801	HEPB_T2	2	2	0	0.6	0.85	0.25	0.5	0.52	0	0	0	0	0	0
10/27/2024 10:54	57205	ROSS_T1	1	1	0	0.3	0.9	0.6	0.17	0.18	0	0	0	0	0	0
10/27/2024 10:55	10801	CHHI_T1	0	2	2	0	0.2	0.2	-1.66	-1.66	2	2	0	1500	1500	0
10/27/2024 10:56	44801	EDAN_T2	2	2	0	0.4	0.55	0.15	-0.5	-0.53	0	0	0	0	0	0
10/27/2024 10:58	11901	ETEX_T2	3	3	0	0.23	0.23	0	0.31	0.27	0	0	0	0	0	0
10/27/2024 10:58	11904	ETEX_T2	1	1	0	0.5	1.8	1.3	0	0	0	0	0	0	0	0
10/27/2024 10:59	11904	ETEX_T2	1	1	0	0.5	1.8	1.3	0.21	0.22	0	0	0	0	0	0
10/27/2024 10:59	11901	ETEX_T2	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0	0
10/27/2024 11:00	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/27/2024 11:00	45902	AUBU_T1	0	1	1	0	1.6	1.6	0.01	0.02	1	1	0	600	600	0
10/27/2024 11:00	11904	ETEX_T2	1	1	0	1.3	1.8	0.5	0.63	0.66	0	0	0	0	0	0
10/27/2024 11:00	11901	ETEX_T2	3	3	0	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
10/27/2024 11:00	44801	EDAN_T2	2	2	0	0.4	0.7	0.3	-0.5	-0.53	0	0	0	0	0	0
10/27/2024 11:02	58401	MORO_T1	0	1	1	0	0.2	0.2	-2.46	-2.52	2	2	0	1200	1200	0
10/27/2024 11:03	58401	MORO_T1	0	1	1	0	0.2	0.2	-1.23	-1.26	1	1	0	600	600	0
10/27/2024 11:04	58401	MORO_T1	0	1	1	0	0.2	0.2	-1.23	-1.26	1	1	0	600	600	0
10/27/2024 11:04	41801	GOCI_T2	3	4	1	0.37	0.43	0.06	0	0	0	0	0	0	0	0
10/27/2024 11:06	65603	QVIL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/27/2024 11:06	65602	QVIL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/27/2024 11:06	65601	QVIL_T2	0	2	2	0	0.5	0.5	-1.24	-1.26	1	1	0	900	900	0
10/27/2024 11:07	13303	ORVI_T1	1	2	1	0.1	0.1	0	0.64	0.61	0	0	0	0	0	0
10/27/2024 11:07	65602	QVIL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/27/2024 11:07	65601	QVIL_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
10/27/2024 11:07	65603	QVIL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/27/2024 11:08	67603	WARW_T1	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
10/27/2024 11:08	59201	THOM_T1	111	109	-2	0.56	0.66	0.1	0	0	0	0	0	0	0	0
10/27/2024 11:08	59202	THOM_T1	761	893	132	0.57	0.58	0.01	0	0	0	0	0	0	0	0
10/27/2024 11:08	67605	WARW_T1	3	4	1	0.53	0.6	0.07	0	0	0	0	0	0	0	0
10/27/2024 11:12	17805	GILB_T2	0	1	1	0	0.2	0.2	-0.15	-0.17	0	0	0	0	0	0
10/27/2024 11:12	17803	GILB_T2	0	8	8	0	0.24	0.24	0	0	0	0	0	0	0	0
10/27/2024 11:12	17804	GILB_T2	1	1	0	1	1.9	0.9	0	0	0	0	0	0	0	0
10/27/2024 11:12	48303	ORWI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/27/2024 11:12	48302	ORWI_T2	2	2	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
10/27/2024 11:14	46801	HEPB_T2	2	1	-1	0.85	0.3	-0.55	0.5	0.53	0	0	0	0	0	0
10/27/2024 11:14	67805	WLAN_T1	0	0	0	0	0	0	-1.62	-1.62	0	0	0	0	0	0
10/27/2024 11:17	17805	GILB_T2	0	2	2	0	0.15	0.15	-0.15	-0.17	0	0	0	0	0	0
10/27/2024 11:17	17803	GILB_T2	0	10	10	0	0.27	0.27	0	0	0	0	0	0	0	0
10/27/2024 11:17	17804	GILB_T2	1	2	1	1.9	0.6	-1.3	0	0	0	0	0	0	0	0
10/27/2024 11:18	64204	KINZ_T1	66	64	-2	0.51	0.63	0.12	0	0	0	0	0	0	0	0
10/27/2024 11:18	64203	KINZ_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
10/27/2024 11:18	64202	KINZ_T1	3	3	0	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
10/27/2024 11:18	64201	KINZ_T1	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
10/27/2024 11:21	42601	TUSC_T1	0	7	7	0	0.1	0.1	-1.35	-1.32	4	4	0	3600	3600	0
10/27/2024 11:27	46004	BERW_T2	0	1	1	0	0	0	-0.86	-0.86	0	0	0	0	0	0
10/27/2024 11:30	21206	ECAR_T2	1	1	0	6.9	7.7	0.8	0	0	0	0	0	0	0	0
10/27/2024 11:30	60803	BUCK_T1	13	17	4	0.22	0.36	0.14	0	0	0	0	0	0	0	0
10/27/2024 11:30	41301	FISH_T1	0	3	3	0	1.93	1.93	0.27	0.27	0	0	0	0	0	0
10/27/2024 11:30	21204	ECAR_T2	1	1	0	0	0	0	-0.75	-0.71	0	0	0	0	0	0
10/27/2024 11:30	41305	FISH_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
10/27/2024 11:30	64305	LINC_T1	0	1	1	0	0.5	0.5	-0.77	-0.77	0	0	0	0	0	0
10/27/2024 11:30	60801	BUCK_T1	5	10	5	0.26	0.29	0.03	-0.21	-0.22	0	0	0	0	0	0
10/27/2024 11:35	46803	HEPB_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/27/2024 11:35	46801	HEPB_T2	1	2	1	0.3	0.7	0.4	0.53	0.52	0	0	0	0	0	0
10/27/2024 11:39	43402	BENT_T1	2	3	1	0.7	0.7	0	-0.93	-0.94	1	1	0	900	900	0
10/27/2024 11:39	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 11:39	46002	BERW_T2	0	0	0	0	0	0	-1.52	-1.52	1	1	0	900	900	0
10/27/2024 11:42	43402	BENT_T1	2	3	1	0.7	0.7	0	-0.93	-0.94	1	1	0	900	900	0
10/27/2024 11:43	10801	CHHI_T1	6	4	-2	0.23	0.33	0.1	-1.66	-1.65	2	2	0	1500	1500	0
10/27/2024 11:51	66501	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/27/2024 11:51	66504	SMAN_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/27/2024 11:51	66502	SMAN_T2	1	5	4	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
10/27/2024 11:51	66505	SMAN_T2	0	2	2	0	0.4	0.4	-0.2	-0.05	1	1	0	900	900	0
10/27/2024 11:52	15703	TANN_T2	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
10/27/2024 11:52	15702	TANN_T2	0	0	0	0	0	0	-0.39	-0.42	0	0	0	0	0	0
10/27/2024 11:52	67602	WARW_T2	0	0	0	0	0	0	1.41	1.4	1	1	0	300	300	0
10/27/2024 11:53	66504	SMAN_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/27/2024 11:53	66505	SMAN_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
10/27/2024 11:53	66502	SMAN_T2	1	5	4	0.2	0.16	-0.04	-0.21	-0.21	0	0	0	0	0	0
10/27/2024 11:53	66501	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/27/2024 11:54	24902	WHHA_T1	4	1	-3	0.18	0	-0.18	0	0	0	0	0	0	0	0
10/27/2024 11:54	66501	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
10/27/2024 11:54	66502	SMAN_T2	1	5	4	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
10/27/2024 11:54	66504	SMAN_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/27/2024 11:54	66505	SMAN_T2	0	2	2	0	0.4	0.4	-0.2	-0.05	1	1	0	900	900	0
10/27/2024 11:54	24901	WHHA_T1	1	1	0	0.7	1.7	1	-0.72	-0.76	0	0	0	0	0	0
10/27/2024 11:55	24901	WHHA_T1	1	1	0	0.7	1.7	1	-0.72	-0.76	0	0	0	0	0	0
10/27/2024 11:55	67602	WARW_T2	0	0	0	0	0	0	1.41	1.4	1	1	0	300	300	0
10/27/2024 11:55	24902	WHHA_T1	4	1	-3	0.18	0	-0.18	0	0	0	0	0	0	0	0
10/27/2024 11:56	67602	WARW_T2	0	0	0	0	0	0	1.41	1.4	1	1	0	300	300	0
10/27/2024 11:57	44802	EDAN_T2	0	0	0	0	0	0	-4.47	-4.46	0	0	0	0	0	0
10/27/2024 11:57	44801	EDAN_T2	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/27/2024 11:58	44502	HAMI_T2	2	1	-1	1.65	3.3	1.65	0	0	0	0	0	0	0	0
10/27/2024 11:58	44505	HAMI_T2	3	3	0	0.3	0.33	0.03	0.23	0.25	0	0	0	0	0	0
10/27/2024 11:59	44802	EDAN_T2	0	0	0	0	0	0	-4.47	-4.46	0	0	0	0	0	0
10/27/2024 11:59	44801	EDAN_T2	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/27/2024 12:00	44802	EDAN_T2	0	0	0	0	0	0	-4.47	-4.46	0	0	0	0	0	0
10/27/2024 12:00	44801	EDAN_T2	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
10/27/2024 12:02	26703	HEML_T1	1	1	0	0.1	0.1	0	-1.78	-1.82	2	2	0	1200	1200	0
10/27/2024 12:08	43103	SMIL_T2	6	5	-1	0.5	0.56	0.06	0	0	0	0	0	0	0	0
10/27/2024 12:08	43104	SMIL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/27/2024 12:08	43102	SMIL_T2	7	6	-1	0.27	0.42	0.15	-0.85	-0.83	1	1	0	600	600	0
10/27/2024 12:08	43101	SMIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/27/2024 12:08	43105	SMIL_T2	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
10/27/2024 12:09	44901	SCOT_T2	10	7	-3	0.32	0.34	0.02	-0.43	-0.43	0	0	0	0	0	0
10/27/2024 12:12	17802	GILB_T1	2	2	0	0.45	0.55	0.1	0.1	0.08	0	0	0	0	0	0
10/27/2024 12:12	24702	FLND_T2	2	3	1	0.4	0.57	0.17	-0.59	-0.75	1	1	0	1200	1200	0
10/27/2024 12:14	61304	EARL_T1	3	2	-1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
10/27/2024 12:14	61302	EARL_T1	1	3	2	1.9	0.9	-1	-0.63	-0.62	2	2	0	1800	1800	0
10/27/2024 12:15	64201	KINZ_T1	1	2	1	0.8	0.75	-0.05	-0.35	-0.23	1	1	0	900	900	0
10/27/2024 12:15	64202	KINZ_T1	2	4	2	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/27/2024 12:15	64204	KINZ_T1	66	67	1	0.63	0.83	0.2	0	0	0	0	0	0	0	0
10/27/2024 12:15	64203	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/27/2024 12:16	41801	GOCI_T2	6	6	0	0.72	0.55	-0.17	0	0	0	0	0	0	0	0
10/27/2024 12:21	57401	SPAN_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
10/27/2024 12:21	57403	SPAN_T1	2	6	4	0.55	0.32	-0.23	0.04	0.04	0	0	0	0	0	0
10/27/2024 12:22	44905	SCOT_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/27/2024 12:25	59202	THOM_T1	752	858	106	0.56	0.63	0.07	0	0	0	0	0	0	0	0
10/27/2024 12:25	59201	THOM_T1	101	108	7	0.56	0.64	0.08	0	0	0	0	0	0	0	0
10/27/2024 12:26	45901	AUBU_T1	1	1	0	0.3	0.3	0	0.94	0.93	0	0	0	0	0	0
10/27/2024 12:26	15001	BLMO_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
10/27/2024 12:26	45902	AUBU_T1	2	1	-1	1	1.5	0.5	0	0	0	0	0	0	0	0
10/27/2024 12:28	15001	BLMO_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
10/27/2024 12:29	45902	AUBU_T1	2	1	-1	1	1.5	0.5	0.01	0.04	1	1	0	600	600	0
10/27/2024 12:29	45901	AUBU_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/27/2024 12:30	46602	LACR_T1	4	4	0	0.75	0.75	0	-1.24	-1.22	0	0	0	0	0	0
10/27/2024 12:34	46602	LACR_T1	4	4	0	0.75	0.75	0	-1.24	-1.22	0	0	0	0	0	0
10/27/2024 12:38	16103	BING_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
10/27/2024 12:38	16101	BING_T2	1	1	0	0.6	0.3	-0.3	0.3	0.33	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/27/2024 12:38	16102	BING_T2	1	2	1	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
10/27/2024 12:40	16103	BING_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
10/27/2024 12:40	16102	BING_T2	1	2	1	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
10/27/2024 12:40	16101	BING_T2	1	1	0	0.6	0.3	-0.3	0.3	0.33	0	0	0	0	0	0
10/27/2024 12:41	61801	EELI_T2	2	2	0	0.15	0.25	0.1	-1.06	-1.06	1	1	0	600	600	0
10/27/2024 12:44	61302	EARL_T1	3	4	1	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
10/27/2024 12:44	61301	EARL_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
10/27/2024 12:44	61304	EARL_T1	2	3	1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
10/27/2024 12:45	61801	EELI_T2	1	3	2	0.3	0.23	-0.07	-1.06	-1.06	1	1	0	600	600	0
10/27/2024 12:53	67602	WARW_T2	1	1	0	0.3	0.3	0	1.43	1.44	1	1	0	300	300	0
10/27/2024 12:54	44301	BEAV_T2	34	32	-2	0.39	0.38	-0.01	-1.03	-1.02	1	1	0	600	600	0
10/27/2024 12:54	42201	SHEN_T2	3	4	1	0.17	0.35	0.18	0.34	0.34	0	0	0	0	0	0
10/27/2024 12:54	44302	BEAV_T2	8	7	-1	0.69	0.79	0.1	0	0	0	0	0	0	0	0
10/27/2024 12:55	44302	BEAV_T2	8	7	-1	0.69	0.79	0.1	0.23	0.22	0	0	0	0	0	0
10/27/2024 12:55	53102	WTWN_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
10/27/2024 12:55	44301	BEAV_T2	34	32	-2	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
10/27/2024 12:55	67602	WARW_T2	1	1	0	0.3	0.3	0	1.43	1.44	1	1	0	300	300	0
10/27/2024 12:55	53101	WTWN_T1	4	4	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/27/2024 12:56	44301	BEAV_T2	34	32	-2	0.39	0.38	-0.01	-1.03	-1.02	1	1	0	600	600	0
10/27/2024 12:56	44302	BEAV_T2	8	7	-1	0.69	0.79	0.1	0	0	0	0	0	0	0	0
10/27/2024 12:57	44302	BEAV_T2	8	7	-1	0.69	0.79	0.1	0	0	0	0	0	0	0	0
10/27/2024 12:57	44301	BEAV_T2	34	32	-2	0.39	0.38	-0.01	-1.03	-1.02	1	1	0	600	600	0
10/27/2024 12:58	44301	BEAV_T2	34	32	-2	0.39	0.38	-0.01	-1.03	-1.02	1	1	0	600	600	0
10/27/2024 12:58	53102	WTWN_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
10/27/2024 12:58	53101	WTWN_T1	4	4	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/27/2024 12:58	44302	BEAV_T2	8	7	-1	0.69	0.79	0.1	0	0	0	0	0	0	0	0
10/27/2024 13:02	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/27/2024 13:02	67602	WARW_T2	1	1	0	0.3	0	-0.3	1.43	1.44	1	1	0	300	300	0
10/27/2024 13:03	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/27/2024 13:04	64305	LINC_T1	1	1	0	0.5	0.6	0.1	-0.71	-0.75	0	0	0	0	0	0
10/27/2024 13:06	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/27/2024 13:09	44801	EDAN_T2	2	3	1	0.65	1.05	0.4	-0.51	-0.46	0	0	0	0	0	0
10/27/2024 13:10	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 13:12	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 13:18	60504	NMAN_T2	3	3	0	0.77	0.8	0.03	0	0	0	0	0	0	0	0
10/27/2024 13:18	60501	NMAN_T2	3	4	1	0.23	0.25	0.02	0	0	0	0	0	0	0	0
10/27/2024 13:18	60502	NMAN_T2	5	6	1	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
10/27/2024 13:19	25402	LAHA_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
10/27/2024 13:20	60501	NMAN_T2	3	4	1	0.23	0.25	0.02	0	0	0	0	0	0	0	0
10/27/2024 13:20	60504	NMAN_T2	3	3	0	0.77	0.8	0.03	0	0	0	0	0	0	0	0
10/27/2024 13:20	60502	NMAN_T2	5	6	1	0.38	0.3	-0.08	-0.41	-0.46	0	0	0	0	0	0
10/27/2024 13:21	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 13:22	43104	SMIL_T2	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
10/27/2024 13:22	65602	QVIL_T2	2	1	-1	0.4	0.7	0.3	0.07	0.09	0	0	0	0	0	0
10/27/2024 13:22	43103	SMIL_T2	1	2	1	1.5	0.75	-0.75	0	0	0	0	0	0	0	0
10/27/2024 13:22	65603	QVIL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/27/2024 13:22	43108	SMIL_T2	0	0	0	0	0	0	-0.95	-0.94	1	1	0	1200	1200	0
10/27/2024 13:22	65601	QVIL_T2	6	8	2	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/27/2024 13:22	43102	SMIL_T2	6	6	0	0.47	0.67	0.2	0	0	0	0	0	0	0	0
10/27/2024 13:22	43105	SMIL_T2	2	3	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/27/2024 13:25	60101	COCA_T1	2	4	2	0.2	0.23	0.03	0.24	0.27	0	0	0	0	0	0
10/27/2024 13:28	60101	COCA_T1	2	4	2	0.2	0.23	0.03	0.48	0.54	0	0	0	0	0	0
10/27/2024 13:28	60102	COCA_T1	0	0	0	0	0	0	0.41	0.23	1	1	0	600	600	0
10/27/2024 13:28	41801	GOCI_T2	2	4	2	0.6	0.58	-0.02	0	0	0	0	0	0	0	0
10/27/2024 13:30	60101	COCA_T1	3	4	1	0.27	0.23	-0.04	0.24	0.27	0	0	0	0	0	0
10/27/2024 13:32	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/27/2024 13:33	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/27/2024 13:37	59402	RFLD_T2	4	8	4	0.25	0.31	0.06	-0.91	-0.9	1	1	0	450	450	0
10/27/2024 13:38	59402	RFLD_T2	4	8	4	0.25	0.31	0.06	-0.91	-0.9	1	1	0	450	450	0
10/27/2024 13:38	67402	WAKE_T2	0	0	0	0	0	0	-0.5	-0.51	1	1	0	600	600	0
10/27/2024 13:38	67401	WAKE_T2	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
10/27/2024 13:39	59402	RFLD_T2	4	8	4	0.25	0.31	0.06	-0.91	-0.9	1	1	0	450	450	0
10/27/2024 13:39	67401	WAKE_T2	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
10/27/2024 13:39	67402	WAKE_T2	0	0	0	0	0	0	-0.5	-0.51	1	1	0	600	600	0
10/27/2024 13:40	46002	BERW_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/27/2024 13:40	46004	BERW_T2	0	0	0	0	0	0	-0.86	-0.85	0	0	0	0	0	0
10/27/2024 13:41	58402	MORO_T1	0	0	0	0	0	0	-0.02	-0.03	1	1	0	900	900	0
10/27/2024 13:41	58401	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/27/2024 13:44	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/27/2024 13:45	67402	WAKE_T2	0	0	0	0	0	0	-0.5	-0.51	1	1	0	600	600	0
10/27/2024 13:45	67401	WAKE_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
10/27/2024 13:56	46001	BERW_T1	1	1	0	0.3	0.2	-0.1	0.46	0.44	0	0	0	0	0	0
10/27/2024 14:08	55105	WERT_T1	0	0	0	0	0	0	-0.73	-0.73	1	1	0	900	900	0
10/27/2024 14:11	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 14:13	29402	BELT_T1	2	2	0	3.65	3.8	0.15	0	0	0	0	0	0	0	0
10/27/2024 14:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/27/2024 14:20	15203	SFAR_T2	3	5	2	0.53	0.58	0.05	-1.34	-1.31	0	0	0	0	0	0
10/27/2024 14:21	15203	SFAR_T2	3	5	2	0.53	0.58	0.05	-1.31	-1.29	0	0	0	0	0	0
10/27/2024 14:22	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/27/2024 14:22	14802	TREI_T2	1	1	0	0.5	0.7	0.2	0.64	0.6	0	0	0	0	0	0
10/27/2024 14:25	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/27/2024 14:25	14802	TREI_T2	1	1	0	0.5	0.7	0.2	0.32	0.3	0	0	0	0	0	0
10/27/2024 14:26	20401	ASHF_T2	9	12	3	0.32	0.38	0.06	0	0	0	0	0	0	0	0
10/27/2024 14:26	20403	ASHF_T2	12	23	11	0.27	0.27	0	0.04	0.05	0	0	0	0	0	0
10/27/2024 14:27	20403	ASHF_T2	12	23	11	0.27	0.27	0	0.04	0.05	0	0	0	0	0	0
10/27/2024 14:27	20401	ASHF_T2	9	12	3	0.32	0.38	0.06	0	0	0	0	0	0	0	0
10/27/2024 14:28	21206	ECAR_T2	1	1	0	8.1	8.3	0.2	-0.2	-0.13	0	0	0	0	0	0
10/27/2024 14:28	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 14:29	44802	EDAN_T2	0	0	0	0	0	0	-2.26	-2.25	0	0	0	0	0	0
10/27/2024 14:29	44801	EDAN_T2	2	3	1	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
10/27/2024 14:31	40902	JESH_T1	0	0	0	0	0	0	-3	-3.03	2	2	0	1200	1200	0
10/27/2024 14:31	40901	JESH_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
10/27/2024 14:32	40902	JESH_T1	0	0	0	0	0	0	-1.5	-1.52	1	1	0	600	600	0
10/27/2024 14:32	40901	JESH_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
10/27/2024 14:40	16504	STRO_T1	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
10/27/2024 14:42	16504	STRO_T1	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
10/27/2024 14:49	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/27/2024 14:49	44201	POIN_T1	27	26	-1	0.13	0.13	0	-5.98	-5.91	3	3	0	3600	3600	0
10/27/2024 14:49	59402	RFLD_T2	0	0	0	0	0	0	-0.89	-0.89	1	1	0	450	450	0
10/27/2024 14:50	44201	POIN_T1	27	26	-1	0.13	0.13	0	-1.99	-1.97	1	1	0	1200	1200	0
10/27/2024 14:52	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 14:52	44201	POIN_T1	27	26	-1	0.13	0.13	0	-1.97	-2.04	1	1	0	1200	1200	0
10/27/2024 14:53	44201	POIN_T1	27	26	-1	0.13	0.13	0	-3.94	-4.08	2	2	0	2400	2400	0
10/27/2024 14:53	67401	WAKE_T2	0	0	0	0	0	0	-0.88	-0.86	0	0	0	0	0	0
10/27/2024 14:54	44202	POIN_T2	1	1	0	0.7	0.6	-0.1	-1.01	-1.01	1	1	0	1200	1200	0
10/27/2024 14:55	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 14:57	16504	STRO_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
10/27/2024 14:58	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 15:00	63501	HEID_TBK1-2	1	2	1	1.3	0.6	-0.7	0.45	0.47	0	0	0	0	0	0
10/27/2024 15:03	63501	HEID_TBK1-2	1	2	1	1.3	0.6	-0.7	0.45	0.47	0	0	0	0	0	0
10/27/2024 15:06	65802	RTWN_T2	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
10/27/2024 15:06	65803	RTWN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/27/2024 15:07	54602	SUMM_T2	12	16	4	0.5	0.73	0.23	0	0	0	0	0	0	0	0
10/27/2024 15:07	54601	SUMM_T2	9	10	1	0.5	0.48	-0.02	-8.57	-8.6	4	4	0	4200	4200	0
10/27/2024 15:08	24201	PROV_T3	1	1	0	6.3	6.3	0	0	0	1	1	0	1200	1200	0
10/27/2024 15:08	24204	PROV_T3	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
10/27/2024 15:09	25501	MADI_T1	2	2	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/27/2024 15:09	25503	MADI_T1	0	0	0	0	0	0	-1.55	-0.45	0	0	0	0	0	0
10/27/2024 15:09	25502	MADI_T1	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
10/27/2024 15:11	54602	SUMM_T2	12	16	4	0.5	0.73	0.23	0	0	0	0	0	0	0	0
10/27/2024 15:11	60301	TWVA_T2	0	0	0	0	0	0	-2.54	-2.55	2	2	0	1200	1200	0
10/27/2024 15:11	54601	SUMM_T2	9	10	1	0.5	0.48	-0.02	-4.29	-4.3	2	2	0	2100	2100	0
10/27/2024 15:17	23401	HONE_T2	3	1	-2	0.27	0.2	-0.07	-0.25	-0.21	0	0	0	0	0	0
10/27/2024 15:22	15204	SFAR_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
10/27/2024 15:22	15203	SFAR_T2	4	3	-1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
10/27/2024 15:23	15203	SFAR_T2	4	3	-1	0.45	0.5	0.05	-2.68	-2.66	0	0	0	0	0	0
10/27/2024 15:27	16504	STRO_T1	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
10/27/2024 15:31	10805	CHHI_T2	1	1	0	7.6	7.5	-0.1	-1.23	-1.46	0	0	0	0	0	0
10/27/2024 16:00	54505	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/27/2024 16:00	54501	ENOL_T2	0	0	0	0	0	0	-0.56	-0.54	1	1	0	600	600	0
10/27/2024 16:01	64201	KINZ_T1	1	1	0	0.9	0.7	-0.2	-0.28	-0.35	1	1	0	900	900	0
10/27/2024 16:01	64204	KINZ_T1	60	34	-26	0.41	0.31	-0.1	0	0	0	0	0	0	0	0
10/27/2024 16:01	64202	KINZ_T1	3	3	0	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
10/27/2024 16:23	46504	LOHA_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
10/27/2024 16:23	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 16:23	46506	LOHA_T1	4	4	0	3.18	3.05	-0.13	0	0	0	0	0	0	0	0
10/27/2024 16:23	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
10/27/2024 16:34	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 16:34	21206	ECAR_T2	1	1	0	7.6	8.1	0.5	-0.23	-0.23	0	0	0	0	0	0
10/27/2024 16:42	60101	COCA_T1	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
10/27/2024 17:22	44202	POIN_T2	0	0	0	0	0	0	-1.01	-1.01	1	1	0	1200	1200	0
10/27/2024 17:34	40101	HUNT_T2	7	9	2	0.27	0.32	0.05	-0.65	-0.67	0	0	0	0	0	0
10/27/2024 19:20	13503	MCMI_T2	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
10/27/2024 19:38	59402	RFLD_T2	0	0	0	0	0	0	-0.89	-0.88	1	1	0	450	450	0
10/27/2024 20:04	13303	ORVI_T1	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
10/27/2024 20:05	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/27/2024 20:05	26703	HEML_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	600	600	0
10/27/2024 20:05	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:05	17805	GILB_T2	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0
10/27/2024 20:05	16101	BING_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
10/27/2024 20:06	44901	SCOT_T2	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
10/27/2024 20:08	45901	AUBU_T1	0	0	0	0	0	0	0.93	0.93	0	0	0	0	0	0
10/27/2024 20:08	46001	BERW_T2	0	0	0	0	0	0	-1.48	-1.48	1	1	0	900	900	0
10/27/2024 20:08	11904	ETEX_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
10/27/2024 20:08	45902	AUBU_T1	0	0	0	0	0	0	-0.01	0.02	1	1	0	600	600	0
10/27/2024 20:08	46004	BERW_T2	1	1	0	1	3.9	2.9	0	0	0	0	0	0	0	0
10/27/2024 20:09	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/27/2024 20:09	60101	COCA_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
10/27/2024 20:09	24902	WHHA_T1	0	2	2	0	0.3	0.3	0.74	0.75	0	0	0	0	0	0
10/27/2024 20:09	15203	SFAR_T2	0	0	0	0	0	0	-2.65	-2.68	0	0	0	0	0	0
10/27/2024 20:09	44201	POIN_T1	99	159	60	0.17	0.22	0.05	-2.16	-2.18	1	1	0	1200	1200	0
10/27/2024 20:09	10805	CHHI_T2	1	1	0	8.4	7.7	-0.7	-1.71	-1.98	1	1	0	600	600	0
10/27/2024 20:09	14802	TREI_T2	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/27/2024 20:10	42701	AUGU_T1	1	1	0	0.6	0.6	0	0	0	2	2	0	1800	1800	0
10/27/2024 20:10	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/27/2024 20:10	63501	HEID_TBK1-2	1	1	0	0.1	0.2	0.1	0.3	0.3	0	0	0	0	0	0
10/27/2024 20:10	44201	POIN_T1	99	159	60	0.17	0.22	0.05	-2.16	-2.18	1	1	0	1200	1200	0
10/27/2024 20:10	17805	GILB_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
10/27/2024 20:10	17802	GILB_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
10/27/2024 20:10	60101	COCA_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
10/27/2024 20:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/27/2024 20:10	16101	BING_T2	0	0	0	0	0	0	0.38	0.41	0	0	0	0	0	0
10/27/2024 20:10	66505	SMAN_T2	3	3	0	0.43	0.47	0.04	-0.5	-0.46	1	1	0	900	900	0
10/27/2024 20:10	29402	BELT_T1	1	1	0	5.8	6.3	0.5	0	0	0	0	0	0	0	0
10/27/2024 20:10	45902	AUBU_T1	0	0	0	0	0	0	-0.01	0.02	1	1	0	600	600	0
10/27/2024 20:11	66504	SMAN_T2	0	0	0	0	0	0	-1.24	-1.28	0	0	0	0	0	0
10/27/2024 20:11	65602	QVIL_T2	0	1	1	0	0	0	0.16	0.17	0	0	0	0	0	0
10/27/2024 20:11	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
10/27/2024 20:11	43102	SMIL_T2	0	0	0	0	0	0	-0.93	-0.93	1	1	0	600	600	0
10/27/2024 20:11	40101	HUNT_T2	96	84	-12	0.37	0.41	0.04	-1.2	-1.2	0	0	0	0	0	0
10/27/2024 20:11	45901	AUBU_T1	0	0	0	0	0	0	0.93	0.93	0	0	0	0	0	0
10/27/2024 20:11	66505	SMAN_T2	3	3	0	0.43	0.47	0.04	0	0	0	0	0	0	0	0
10/27/2024 20:11	15703	TANN_T2	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
10/27/2024 20:11	43402	BENT_T1	0	1	1	0	0	0	-0.91	-0.93	1	1	0	900	900	0
10/27/2024 20:11	23401	HONE_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
10/27/2024 20:11	26703	HEML_T1	0	0	0	0	0	0	-0.9	-0.92	1	1	0	600	600	0
10/27/2024 20:11	11904	ETEX_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
10/27/2024 20:12	63501	HEID_TBK1-2	1	1	0	0.1	0.2	0.1	0.3	0.3	0	0	0	0	0	0
10/27/2024 20:12	44801	EDAN_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
10/27/2024 20:12	15603	NSTR_T2	0	0	0	0	0	0	-1.28	-1.31	0	0	0	0	0	0
10/27/2024 20:12	65601	QVIL_T2	0	0	0	0	0	0	-1.34	-1.32	1	1	0	900	900	0
10/27/2024 20:12	44802	EDAN_T2	0	0	0	0	0	0	-2.33	-2.39	0	0	0	0	0	0
10/27/2024 20:12	65602	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:12	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/27/2024 20:12	24201	PROV_T3	1	1	0	6.9	6.8	-0.1	0	0	1	1	0	1200	1200	0
10/27/2024 20:12	64204	KINZ_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
10/27/2024 20:12	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:12	64201	KINZ_T1	1	1	0	0.9	0.9	0	-0.91	-0.95	3	3	0	1500	1500	0
10/27/2024 20:12	11904	ETEX_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
10/27/2024 20:12	54505	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/27/2024 20:12	24204	PROV_T3	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
10/27/2024 20:12	54501	ENOL_T2	0	0	0	0	0	0	-0.56	-0.51	1	1	0	600	600	0
10/27/2024 20:13	44801	EDAN_T2	0	0	0	0	0	0	-2.33	-2.39	0	0	0	0	0	0
10/27/2024 20:13	20403	ASHF_T2	0	0	0	0	0	0	0.25	0.12	0	0	0	0	0	0
10/27/2024 20:13	44801	EDAN_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
10/27/2024 20:13	67402	WAKE_T2	0	0	0	0	0	0	-0.53	-0.52	1	1	0	600	600	0
10/27/2024 20:13	66505	SMAN_T2	3	3	0	0.43	0.47	0.04	-0.5	-0.46	1	1	0	900	900	0
10/27/2024 20:13	64204	KINZ_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
10/27/2024 20:13	14802	TREI_T2	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
10/27/2024 20:13	67401	WAKE_T2	0	0	0	0	0	0	-1.2	-1.2	0	0	0	0	0	0
10/27/2024 20:13	24902	WHHA_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/27/2024 20:13	42601	TUSC_T1	4	8	4	0.7	0.6	-0.1	-0.56	-0.55	2	2	0	1800	1800	0
10/27/2024 20:13	44505	HAMI_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
10/27/2024 20:13	41602	CLEV_T1	3	0	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
10/27/2024 20:13	60101	COCA_T1	0	0	0	0	0	0	0.36	0.42	0	0	0	0	0	0
10/27/2024 20:13	66504	SMAN_T2	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
10/27/2024 20:13	60102	COCA_T1	0	0	0	0	0	0	-0.46	-0.37	2	2	0	1200	1200	0
10/27/2024 20:13	45902	AUBU_T1	0	0	0	0	0	0	-0.01	0.02	1	1	0	600	600	0
10/27/2024 20:13	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/27/2024 20:13	64201	KINZ_T1	1	1	0	0.9	0.9	0	-0.91	-0.95	3	3	0	1500	1500	0
10/27/2024 20:13	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:13	59402	RFLD_T2	0	0	0	0	0	0	-0.87	-0.89	1	1	0	450	450	0
10/27/2024 20:13	40602	PIGR_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
10/27/2024 20:13	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
10/27/2024 20:13	42701	AUGU_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
10/27/2024 20:13	24901	WHHA_T1	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
10/27/2024 20:14	60502	NMAN_T2	0	0	0	0	0	0	-0.5	-0.55	0	0	0	0	0	0
10/27/2024 20:14	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:14	60504	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:14	21206	ECAR_T2	1	1	0	7.2	7.6	0.4	-0.11	-0.07	0	0	0	0	0	0
10/27/2024 20:14	45902	AUBU_T1	0	0	0	0	0	0	-0.01	0.02	1	1	0	600	600	0
10/27/2024 20:14	42701	AUGU_T1	1	1	0	0.6	0.6	0	0	0	2	2	0	1800	1800	0
10/27/2024 20:14	54602	SUMM_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
10/27/2024 20:14	43108	SMIL_T2	0	0	0	0	0	0	-1.21	-1.22	1	1	0	1200	1200	0
10/27/2024 20:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:14	11901	ETEX_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
10/27/2024 20:14	10801	CHHI_T1	11	62	51	0.11	0.16	0.05	-2.25	-2.24	3	3	0	2100	2100	0
10/27/2024 20:14	67605	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/27/2024 20:14	61301	EARL_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
10/27/2024 20:14	13503	MCMI_T2	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
10/27/2024 20:14	64305	LINC_T1	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
10/27/2024 20:14	64602	LEOL_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
10/27/2024 20:14	16504	STRO_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
10/27/2024 20:14	67603	WARW_T1	0	0	0	0	0	0	-0.12	-0.1	0	0	0	0	0	0
10/27/2024 20:14	46602	LACR_T1	0	0	0	0	0	0	-1.2	-1.21	0	0	0	0	0	0
10/27/2024 20:14	54601	SUMM_T2	3	8	5	0.17	0.2	0.03	-4.2	-4.23	2	2	0	2100	2100	0
10/27/2024 20:15	60501	NMAN_T2	0	19	19	0	0.14	0.14	0	0	0	0	0	0	0	0
10/27/2024 20:15	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:15	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:15	60803	BUCK_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/27/2024 20:15	24902	WHHA_T1	0	2	2	0	0.6	0.6	0.74	0.75	0	0	0	0	0	0
10/27/2024 20:15	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:15	60801	BUCK_T1	0	5	5	0	0.1	0.1	-0.92	-0.92	1	1	0	600	600	0
10/27/2024 20:15	11901	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:15	60301	TWVA_T2	0	0	0	0	0	0	-1.19	-1.19	0	0	0	0	0	0
10/27/2024 20:15	44201	POIN_T1	81	160	79	0.19	0.22	0.03	-2.16	-2.18	1	1	0	1200	1200	0
10/27/2024 20:15	67602	WARW_T2	0	0	0	0	0	0	1.02	1.02	1	1	0	300	300	0
10/27/2024 20:15	24702	FLND_T2	0	0	0	0	0	0	-0.28	-0.53	1	1	0	1200	1200	0
10/27/2024 20:16	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.18	0	0	0	0	0	0
10/27/2024 20:16	44801	EDAN_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
10/27/2024 20:16	67602	WARW_T2	0	0	0	0	0	0	2.04	2.04	2	2	0	600	600	0
10/27/2024 20:16	44502	HAMI_T2	1	1	0	3.3	3.3	0	-0.94	-0.89	0	0	0	0	0	0
10/27/2024 20:16	29402	BELT_T1	1	1	0	5.7	6.5	0.8	0	0	0	0	0	0	0	0
10/27/2024 20:16	61801	EELI_T2	0	0	0	0	0	0	-1.12	-1.13	1	1	0	600	600	0
10/27/2024 20:16	63501	HEID_TBK1-2	1	33	32	0.1	0.2	0.1	0.3	0.3	0	0	0	0	0	0
10/27/2024 20:16	65503	MOJO_T2	0	0	0	0	0	0	-0.53	-0.59	0	0	0	0	0	0
10/27/2024 20:16	44802	EDAN_T2	0	0	0	0	0	0	-2.33	-2.39	0	0	0	0	0	0
10/27/2024 20:16	20603	GRWO_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
10/27/2024 20:16	13503	MCMI_T2	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
10/27/2024 20:16	22901	HARW_T1	0	0	0	0	0	0	-1.95	-2.01	1	1	0	1200	1200	0
10/27/2024 20:16	25402	LAHA_T2	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
10/27/2024 20:16	22903	HARW_T1	0	12	12	0	0.22	0.22	0	0	0	0	0	0	0	0
10/27/2024 20:16	44301	BEAV_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/27/2024 20:16	22905	HARW_T1	9	1	-8	0.79	0	-0.79	0	0	0	0	0	0	0	0
10/27/2024 20:17	59201	THOM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/27/2024 20:17	57201	ROSS_T1	0	22	22	0	0.24	0.24	-0.82	-0.78	0	0	0	0	0	0
10/27/2024 20:17	10801	CHHI_T1	25	62	37	0.11	0.16	0.05	-2.25	-2.24	3	3	0	2100	2100	0
10/27/2024 20:17	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:17	44301	BEAV_T2	1	2	1	0.1	0	-0.1	-1.2	-1.17	1	1	0	600	600	0
10/27/2024 20:17	15203	SFAR_T2	0	0	0	0	0	0	-1.33	-1.34	0	0	0	0	0	0
10/27/2024 20:17	29301	DAPP_T1	1	1	0	9.5	9.7	0.2	0	0	1	1	0	600	600	0
10/27/2024 20:17	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:17	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:17	45901	AUBU_T1	0	0	0	0	0	0	0.93	0.93	0	0	0	0	0	0
10/27/2024 20:17	66505	SMAN_T2	3	3	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
10/27/2024 20:18	44801	EDAN_T2	1	1	0	0.6	0.2	-0.4	-0.55	-0.56	0	0	0	0	0	0
10/27/2024 20:18	16504	STRO_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
10/27/2024 20:18	64204	KINZ_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
10/27/2024 20:18	60803	BUCK_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/27/2024 20:18	44201	POIN_T1	81	160	79	0.19	0.22	0.03	-2.16	-2.18	1	1	0	1200	1200	0
10/27/2024 20:18	64101	REFR_T1	7	4	-3	0.57	0.4	-0.17	-0.01	-0.01	0	0	0	0	0	0
10/27/2024 20:18	60801	BUCK_T1	0	5	5	0	0.1	0.1	-0.92	-0.92	1	1	0	600	600	0
10/27/2024 20:18	60101	COCA_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
10/27/2024 20:18	48302	ORWI_T2	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/27/2024 20:18	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:18	64201	KINZ_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
10/27/2024 20:18	44301	BEAV_T2	1	2	1	0.1	0	-0.1	-1.2	-1.17	1	1	0	600	600	0
10/27/2024 20:18	13303	ORVI_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
10/27/2024 20:18	42701	AUGU_T1	1	1	0	0.5	0.6	0.1	0	0	2	2	0	1800	1800	0
10/27/2024 20:18	15602	NSTR_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
10/27/2024 20:18	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:18	15204	SFAR_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
10/27/2024 20:19	46004	BERW_T2	1	1	0	4	1.8	-2.2	-0.84	-0.86	0	0	0	0	0	0
10/27/2024 20:19	44802	EDAN_T2	0	0	0	0	0	0	-2.33	-2.39	0	0	0	0	0	0
10/27/2024 20:19	40902	JESH_T1	0	0	0	0	0	0	-1.43	-1.49	1	1	0	600	600	0
10/27/2024 20:19	57403	SPAN_T1	0	31	31	0	0.27	0.27	0.05	0.05	0	0	0	0	0	0
10/27/2024 20:19	24902	WHHA_T1	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/27/2024 20:19	66505	SMAN_T2	3	3	0	0.3	1.1	0.8	0	0	0	0	0	0	0	0
10/27/2024 20:19	64101	REFR_T1	7	4	-3	0.57	0.4	-0.17	-0.01	-0.01	0	0	0	0	0	0
10/27/2024 20:19	44801	EDAN_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
10/27/2024 20:19	46001	BERW_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
10/27/2024 20:19	13503	MCMI_T2	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
10/27/2024 20:19	20603	GRWO_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
10/27/2024 20:19	44202	POIN_T2	0	0	0	0	0	0	-1.03	-1.01	1	1	0	1200	1200	0
10/27/2024 20:19	66502	SMAN_T2	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
10/27/2024 20:19	24901	WHHA_T1	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
10/27/2024 20:19	43402	BENT_T1	0	1	1	0	0	0	-0.91	-0.93	1	1	0	900	900	0
10/27/2024 20:19	57401	SPAN_T1	2	2	0	0.45	1.25	0.8	0	0	0	0	0	0	0	0
10/27/2024 20:19	40901	JESH_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
10/27/2024 20:19	44201	POIN_T1	81	160	79	0.19	0.22	0.03	-2.16	-2.18	1	1	0	1200	1200	0
10/27/2024 20:19	63501	HEID_TBK1-2	1	33	32	0.1	0.2	0.1	0.3	0.3	0	0	0	0	0	0
10/27/2024 20:19	44902	SCOT_T2	0	0	0	0	0	0	-1	-1.02	0	0	0	0	0	0
10/27/2024 20:20	41301	FISH_T1	1	2	1	2.3	1.2	-1.1	0.24	0.25	0	0	0	0	0	0
10/27/2024 20:20	25501	MADI_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
10/27/2024 20:20	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:20	59402	RFLD_T2	0	0	0	0	0	0	-0.87	-0.89	1	1	0	450	450	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/27/2024 20:20	46801	HEPB_T2	2	2	0	0.3	0.45	0.15	0.98	0.98	0	0	0	0	0	0
10/27/2024 20:20	25503	MADI_T1	0	0	0	0	0	0	-1.34	-1.39	0	0	0	0	0	0
10/27/2024 20:21	60501	NMAN_T2	0	19	19	0	0.14	0.14	0	0	0	0	0	0	0	0
10/27/2024 20:21	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:21	15702	TANN_T2	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
10/27/2024 20:21	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:21	44801	EDAN_T2	1	1	0	0.6	0.2	-0.4	-0.56	-0.52	0	0	0	0	0	0
10/27/2024 20:21	27603	PIRI_T2	0	0	0	0	0	0	-1.86	-1.86	2	2	0	1800	1800	0
10/27/2024 20:21	53102	WTWN_T1	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
10/27/2024 20:21	57201	ROSS_T1	0	22	22	0	0.24	0.24	0	0	0	0	0	0	0	0
10/27/2024 20:21	44802	EDAN_T2	0	0	0	0	0	0	-2.39	-2.39	0	0	0	0	0	0
10/27/2024 20:21	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:21	57205	ROSS_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
10/27/2024 20:21	15703	TANN_T2	1	1	0	6.6	6.2	-0.4	0	0	0	0	0	0	0	0
10/27/2024 20:21	65802	RTWN_T2	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
10/27/2024 20:21	65502	MOJO_T2	0	0	0	0	0	0	-1.37	-1.32	0	0	0	0	0	0
10/27/2024 20:22	53102	WTWN_T1	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
10/27/2024 20:22	63804	HEMP_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
10/27/2024 20:22	14802	TREI_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
10/27/2024 20:22	64101	REFR_T1	7	4	-3	0.57	0.4	-0.17	-0.01	-0.01	0	0	0	0	0	0
10/27/2024 20:22	44201	POIN_T1	81	160	79	0.19	0.22	0.03	-2.18	-2.18	1	1	0	1200	1200	0
10/27/2024 20:22	67402	WAKE_T2	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
10/27/2024 20:22	44601	LAOR_T1	0	0	0	0	0	0	-1.21	-1.19	0	0	0	0	0	0
10/27/2024 20:22	58401	MORO_T1	0	0	0	0	0	0	-1.27	-1.28	1	1	0	600	600	0
10/27/2024 20:22	63801	HEMP_T1	0	0	0	0	0	0	-0.4	-0.46	0	0	0	0	0	0
10/27/2024 20:23	46506	LOHA_T1	4	3	-1	2.63	3.5	0.87	0	0	0	0	0	0	0	0
10/27/2024 20:23	67804	WLAN_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
10/27/2024 20:23	67805	WLAN_T1	0	0	0	0	0	0	-1.64	-1.65	0	0	0	0	0	0
10/27/2024 20:23	40902	JESH_T1	0	0	0	0	0	0	-1.49	-1.52	1	1	0	600	600	0
10/27/2024 20:23	44802	EDAN_T2	0	0	0	0	0	0	-2.39	-2.39	0	0	0	0	0	0
10/27/2024 20:23	46004	BERW_T2	1	1	0	4	1.8	-2.2	-0.86	-0.85	0	0	0	0	0	0
10/27/2024 20:23	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
10/27/2024 20:23	44801	EDAN_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
10/27/2024 20:23	58402	MORO_T1	0	0	0	0	0	0	-0.03	-0.03	1	1	0	900	900	0
10/27/2024 20:23	44301	BEAV_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/27/2024 20:23	40901	JESH_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
10/27/2024 20:23	20403	ASHF_T2	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
10/27/2024 20:23	61801	EELI_T2	0	0	0	0	0	0	-1.13	-1.14	1	1	0	600	600	0
10/27/2024 20:24	54602	SUMM_T2	0	9	9	0	0.33	0.33	0	0	0	0	0	0	0	0
10/27/2024 20:24	44801	EDAN_T2	1	1	0	0.6	0.2	-0.4	-0.56	-0.52	0	0	0	0	0	0
10/27/2024 20:24	58401	MORO_T1	0	0	0	0	0	0	-1.27	-1.28	1	1	0	600	600	0
10/27/2024 20:24	63501	HEID_TBK1-2	1	33	32	0.1	0.2	0.1	0.3	0.3	0	0	0	0	0	0
10/27/2024 20:24	64203	KINZ_T1	0	0	0	0	0	0	-0.6	-0.53	1	1	0	600	600	0
10/27/2024 20:24	64201	KINZ_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
10/27/2024 20:24	64204	KINZ_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
10/27/2024 20:24	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:24	57403	SPAN_T1	0	31	31	0	0.27	0.27	0.05	0.05	0	0	0	0	0	0
10/27/2024 20:24	44802	EDAN_T2	0	0	0	0	0	0	-2.39	-2.39	0	0	0	0	0	0
10/27/2024 20:24	57401	SPAN_T1	2	2	0	0.45	1.25	0.8	0	0	0	0	0	0	0	0
10/27/2024 20:24	54601	SUMM_T2	1	10	9	0.1	0.63	0.53	-4.23	-4.23	2	2	0	2100	2100	0
10/27/2024 20:25	44201	POIN_T1	81	160	79	0.19	0.22	0.03	-2.18	-2.18	1	1	0	1200	1200	0
10/27/2024 20:25	64305	LINC_T1	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
10/27/2024 20:25	42201	SHEN_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
10/27/2024 20:25	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:25	59201	THOM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/27/2024 20:25	44905	SCOT_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
10/27/2024 20:26	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:26	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:26	58401	MORO_T1	0	0	0	0	0	0	-1.27	-1.28	1	1	0	600	600	0
10/27/2024 20:27	44301	BEAV_T2	1	2	1	0.1	0	-0.1	-1.17	-1.19	1	1	0	600	600	0
10/27/2024 20:27	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:27	59402	RFLD_T2	0	0	0	0	0	0	-0.89	-0.9	1	1	0	450	450	0
10/27/2024 20:27	59201	THOM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/27/2024 20:28	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:28	44301	BEAV_T2	1	2	1	0.1	0	-0.1	-1.17	-1.19	1	1	0	600	600	0
10/27/2024 20:28	59201	THOM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/27/2024 20:36	58401	MORO_T1	0	0	0	0	0	0	-1.27	-1.28	1	1	0	600	600	0
10/27/2024 20:50	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:53	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:58	13303	ORVI_T1	0	0	0	0	0	0	0.5	0.53	0	0	0	0	0	0
10/27/2024 20:58	13301	ORVI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/27/2024 20:59	54602	SUMM_T2	9	4	-5	0.33	0.1	-0.23	0	0	0	0	0	0	0	0
10/27/2024 20:59	54601	SUMM_T2	10	7	-3	0.63	0.29	-0.34	-4.19	-4.26	2	2	0	2100	2100	0
10/27/2024 21:15	15203	WAR_T2	0	0	0	0	0	0	-1.38	-1.36	0	0	0	0	0	0
10/27/2024 21:18	42601	TUSC_T1	0	0	0	0	0	0	-0.73	-0.76	2	2	0	1800	1800	0
10/27/2024 22:03	67402	WAKE_T2	0	0	0	0	0	0	-0.56	-0.55	1	1	0	600	600	0
10/27/2024 22:49	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 7:59	11104	EGYP_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
10/28/2024 7:59	11103	EGYP_T1	0	0	0	0	0	0	-0.94	-0.88	0	0	0	0	0	0
10/28/2024 8:14	63804	HEMP_T1	1	1	0	5.5	5.4	-0.1	0.75	0.74	0	0	0	0	0	0
10/28/2024 8:16	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/28/2024 8:17	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/28/2024 8:23	55101	WERT_T1	0	0	0	0	0	0	-1.2	-1.21	1	1	0	600	600	0
10/28/2024 8:26	10102	ALLE_T2	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
10/28/2024 8:26	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 8:26	10206	ALLE_T2	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
10/28/2024 8:30	54505	ENOL_T2	1	1	0	1.2	1.4	0.2	-1.15	-1.18	1	1	0	600	600	0
10/28/2024 8:30	54501	ENOL_T2	1	5	4	0.2	0.26	0.06	0	0	0	0	0	0	0	0
10/28/2024 8:30	54502	ENOL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
10/28/2024 8:32	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/28/2024 8:33	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/28/2024 8:35	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/28/2024 8:36	45901	AUBU_T1	0	0	0	0	0	0	0.45	0.62	0	0	0	0	0	0
10/28/2024 8:37	55101	WERT_T1	0	0	0	0	0	0	-1.21	-1.28	1	1	0	600	600	0
10/28/2024 8:41	54502	ENOL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
10/28/2024 8:41	54501	ENOL_T2	1	5	4	0.2	0.26	0.06	0	0	0	0	0	0	0	0
10/28/2024 8:41	54505	ENOL_T2	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
10/28/2024 8:41	54504	ENOL_T2	0	0	0	0	0	0	-1.13	-1.13	1	1	0	600	600	0
10/28/2024 8:42	45501	DERR_T2	0	1	1	0	0	0	0.77	0.74	2	2	0	1800	1800	0
10/28/2024 8:43	45501	DERR_T2	0	1	1	0	0	0	0.77	0.74	2	2	0	1800	1800	0
10/28/2024 8:44	54502	ENOL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
10/28/2024 8:44	63601	LETO_T1	6	6	0	0.5	0.7	0.2	0.35	0.46	1	1	0	900	900	0
10/28/2024 8:44	54504	ENOL_T2	0	0	0	0	0	0	-1.13	-1.13	1	1	0	600	600	0
10/28/2024 8:44	54505	ENOL_T2	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
10/28/2024 8:44	54501	ENOL_T2	1	5	4	0.2	0.26	0.06	0	0	0	0	0	0	0	0
10/28/2024 8:44	14201	EALL_T1	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
10/28/2024 8:45	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/28/2024 8:46	64904	MILL_T1	0	0	0	0	0	0	0.53	0.48	0	0	0	0	0	0
10/28/2024 8:48	52503	PROG_T2	0	0	0	0	0	0	-0.61	-0.56	1	1	0	900	900	0
10/28/2024 8:48	64902	MILL_T2	0	0	0	0	0	0	-0.66	-0.64	1	1	0	900	900	0
10/28/2024 8:49	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/28/2024 8:50	64802	MONE_T2	0	1	1	0	0	0	0.35	0.31	0	0	0	0	0	0
10/28/2024 8:50	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/28/2024 8:50	52502	PROG_T2	0	0	0	0	0	0	-0.48	0.43	1	0	-1	900	0	-900
10/28/2024 8:51	57203	ROSS_T1	1169	2451	1282	0.52	0.65	0.13	0.49	0.48	0	0	0	0	0	0
10/28/2024 8:51	57201	ROSS_T1	469	597	128	0.51	0.89	0.38	0	0	0	0	0	0	0	0
10/28/2024 8:51	57205	ROSS_T1	747	1644	897	0.22	0.49	0.27	0	0	0	0	0	0	0	0
10/28/2024 8:52	57203	ROSS_T1	1169	2451	1282	0.52	0.65	0.13	0	0	0	0	0	0	0	0
10/28/2024 8:52	57201	ROSS_T1	469	597	128	0.51	0.89	0.38	0	0	0	0	0	0	0	0
10/28/2024 8:52	57205	ROSS_T1	747	1644	897	0.22	0.49	0.27	0.27	0.3	0	0	0	0	0	0
10/28/2024 8:53	57203	ROSS_T1	1169	2451	1282	0.52	0.65	0.13	0.48	0.47	0	0	0	0	0	0
10/28/2024 8:53	57205	ROSS_T1	747	1644	897	0.22	0.49	0.27	0	0	0	0	0	0	0	0
10/28/2024 8:53	57201	ROSS_T1	469	597	128	0.51	0.89	0.38	0	0	0	0	0	0	0	0
10/28/2024 8:54	57401	SPAN_T1	44	157	113	0.29	0.35	0.06	0.2	0.21	0	0	0	0	0	0
10/28/2024 8:54	57403	SPAN_T1	168	568	400	0.24	0.42	0.18	0	0	0	0	0	0	0	0
10/28/2024 8:55	55102	WERT_T2	0	0	0	0	0	0	-0.93	-0.91	2	2	0	1200	1200	0
10/28/2024 8:56	57201	ROSS_T1	469	597	128	0.51	0.89	0.38	-0.72	-0.75	0	0	0	0	0	0
10/28/2024 8:56	57203	ROSS_T1	1169	2451	1282	0.52	0.65	0.13	0	0	0	0	0	0	0	0
10/28/2024 8:56	57205	ROSS_T1	747	1644	897	0.22	0.49	0.27	0	0	0	0	0	0	0	0
10/28/2024 8:59	40801	EXCH_T2	0	0	0	0	0	0	-0.59	-0.58	1	1	0	1200	1200	0
10/28/2024 8:59	40802	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 9:04	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/28/2024 9:05	24202	PROV_T4	1	1	0	2.7	0	-2.7	0	0	1	1	0	1200	1200	0
10/28/2024 9:08	20401	ASHF_T2	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/28/2024 9:08	20403	ASHF_T2	2	2	0	0.4	0.1	-0.3	0.62	0.72	0	0	0	0	0	0
10/28/2024 9:08	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/28/2024 9:18	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	-0.3	-0.36	0	0	0	0	0	0
10/28/2024 9:18	55002	NEWP_T1	2	4	2	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
10/28/2024 9:19	41205	KENM_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	600	600	0
10/28/2024 9:19	47403	PENS_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
10/28/2024 9:19	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/28/2024 9:19	41202	KENM_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
10/28/2024 9:19	47401	PENS_T1	2	2	0	0.1	0.4	0.3	0.14	0.08	0	0	0	0	0	0
10/28/2024 9:20	54701	NEBL_T1	7	8	1	0.66	0.71	0.05	0	0	0	0	0	0	0	0
10/28/2024 9:21	67103	SPRI_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
10/28/2024 9:22	59101	WALK_T2	0	0	0	0	0	0	3.6	3.68	2	0	-2	1200	0	-1200
10/28/2024 9:24	46004	BERW_T2	1	1	0	2	1.5	-0.5	-0.36	-0.37	0	0	0	0	0	0
10/28/2024 9:26	59101	WALK_T2	0	0	0	0	0	0	1.8	1.84	1	0	-1	600	0	-600
10/28/2024 9:30	66701	STRA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/28/2024 9:30	66703	STRA_T1	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
10/28/2024 9:35	12803	MICK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 9:35	12802	MICK_T1	0	0	0	0	0	0	-1.19	-1.22	0	0	0	0	0	0
10/28/2024 9:35	12801	MICK_T1	0	0	0	0	0	0	-0.16	-0.11	1	1	0	600	600	0
10/28/2024 9:35	12807	MICK_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
10/28/2024 9:36	67106	SPRI_T2	0	0	0	0	0	0	-1.3	-1.31	1	1	0	900	900	0
10/28/2024 9:37	55002	NEWP_T1	3	4	1	0.27	0.53	0.26	-0.17	-0.19	0	0	0	0	0	0
10/28/2024 9:37	14802	TREI_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
10/28/2024 9:39	52503	PROG_T2	0	0	0	0	0	0	-0.58	-0.56	1	1	0	900	900	0
10/28/2024 9:39	14801	TREI_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
10/28/2024 9:43	45802	HEGI_T2	8	9	1	0.23	0.4	0.17	0	0	0	0	0	0	0	0
10/28/2024 9:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 9:46	45802	HEGI_T2	9	14	5	0.34	0.5	0.16	2.77	2.16	0	0	0	0	0	0
10/28/2024 9:46	65502	MOJO_T2	0	0	0	0	0	0	-0.45	-0.5	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/28/2024 9:46	40101	HUNT_T2	15	35	20	0.34	0.3	-0.04	-2.76	-2.79	0	0	0	0	0	0
10/28/2024 9:47	40101	HUNT_T2	15	35	20	0.34	0.3	-0.04	-0.92	-0.93	0	0	0	0	0	0
10/28/2024 9:47	64902	MILL_T2	0	1	1	0	0.2	0.2	-0.78	-0.73	1	1	0	900	900	0
10/28/2024 9:48	65502	MOJO_T2	0	0	0	0	0	0	-0.45	-0.5	0	0	0	0	0	0
10/28/2024 9:49	64305	LINC_T1	1	0	-1	0.1	0	-0.1	-0.29	-0.35	0	0	0	0	0	0
10/28/2024 9:50	66504	SMAN_T2	0	0	0	0	0	0	-0.35	-0.45	0	0	0	0	0	0
10/28/2024 9:50	66502	SMAN_T2	1	5	4	0.3	0.3	0	0	0	0	0	0	0	0	0
10/28/2024 9:51	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 9:51	55002	NEWP_T1	3	4	1	0.27	0.7	0.43	0	0	0	0	0	0	0	0
10/28/2024 9:51	65503	MOJO_T2	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
10/28/2024 9:52	66505	SMAN_T2	0	0	0	0	0	0	0.08	0.21	2	2	0	1800	1800	0
10/28/2024 9:52	55002	NEWP_T1	3	4	1	0.27	0.7	0.43	0	0	0	0	0	0	0	0
10/28/2024 9:52	55001	NEWP_T1	0	1	1	0	0.1	0.1	-0.33	-0.3	0	0	0	0	0	0
10/28/2024 9:52	66502	SMAN_T2	1	5	4	0.3	0.3	0	0	0	0	0	0	0	0	0
10/28/2024 9:52	66503	SMAN_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
10/28/2024 9:53	66502	SMAN_T2	1	5	4	0.3	0.3	0	0.42	0.36	0	0	0	0	0	0
10/28/2024 9:53	66504	SMAN_T2	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
10/28/2024 9:54	66504	SMAN_T2	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
10/28/2024 9:54	66502	SMAN_T2	1	5	4	0.3	0.3	0	0.21	0.18	0	0	0	0	0	0
10/28/2024 10:00	47401	PENS_T1	0	29	29	0	0.31	0.31	0.12	0.16	0	0	0	0	0	0
10/28/2024 10:00	54502	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/28/2024 10:00	67503	WEWI_T2	1	1	0	8.3	7.9	-0.4	-0.18	-0.09	0	0	0	0	0	0
10/28/2024 10:00	64101	REFR_T1	1	1	0	0.1	0.2	0.1	-0.01	-0.01	0	0	0	0	0	0
10/28/2024 10:00	54505	ENOL_T2	1	1	0	1	1	0	-1.25	-1.27	1	1	0	600	600	0
10/28/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
10/28/2024 10:00	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/28/2024 10:00	47403	PENS_T1	1	1	0	0.3	1.4	1.1	0	0	0	0	0	0	0	0
10/28/2024 10:00	55002	NEWP_T1	4	5	1	0.45	0.66	0.21	0	0	0	0	0	0	0	0
10/28/2024 10:00	55001	NEWP_T1	0	1	1	0	0.1	0.1	-0.33	-0.3	0	0	0	0	0	0
10/28/2024 10:00	54701	NEBL_T1	7	7	0	0.86	0.8	-0.06	0	0	0	0	0	0	0	0
10/28/2024 10:00	67502	WEWI_T2	8	1	-7	0.21	0.8	0.59	0	0	0	0	0	0	0	0
10/28/2024 10:00	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/28/2024 10:00	15603	NSTR_T2	0	1	1	0	0.4	0.4	-0.58	-0.58	0	0	0	0	0	0
10/28/2024 10:00	45901	AUBU_T1	0	0	0	0	0	0	1.24	0.99	0	0	0	0	0	0
10/28/2024 10:03	64902	MILL_T2	1	3	2	0.2	0.47	0.27	-0.73	-0.76	1	1	0	900	900	0
10/28/2024 10:06	67502	WEWI_T2	8	1	-7	0.21	0.8	0.59	-0.17	-0.15	1	0	-1	900	0	-900
10/28/2024 10:06	67503	WEWI_T2	1	1	0	8.3	7.9	-0.4	0	0	0	0	0	0	0	0
10/28/2024 10:07	28102	TWLA_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
10/28/2024 10:07	67502	WEWI_T2	8	1	-7	0.21	0.8	0.59	0	0	0	0	0	0	0	0
10/28/2024 10:07	67503	WEWI_T2	1	1	0	8.3	7.9	-0.4	-0.09	-0.2	0	0	0	0	0	0
10/28/2024 10:08	29402	BELT_T1	1	1	0	7.7	8.2	0.5	0	0	0	0	0	0	0	0
10/28/2024 10:08	55001	NEWP_T1	0	1	1	0	0.1	0.1	-0.3	-0.31	0	0	0	0	0	0
10/28/2024 10:08	55002	NEWP_T1	4	5	1	0.45	0.66	0.21	0	0	0	0	0	0	0	0
10/28/2024 10:08	67103	SPRI_T1	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
10/28/2024 10:08	29401	BELT_T1	0	13	13	0	0.12	0.12	0	0	1	1	0	900	900	0
10/28/2024 10:09	20403	ASHF_T2	2	0	-2	0.15	0	-0.15	0.94	1.13	0	0	0	0	0	0
10/28/2024 10:09	20401	ASHF_T2	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
10/28/2024 10:09	67502	WEWI_T2	8	1	-7	0.21	0.8	0.59	0	0	0	0	0	0	0	0
10/28/2024 10:09	20402	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/28/2024 10:09	67503	WEWI_T2	1	1	0	8.3	7.9	-0.4	-0.18	-0.39	0	0	0	0	0	0
10/28/2024 10:10	15703	TANN_T2	1	1	0	5.9	5.6	-0.3	0	0	0	0	0	0	0	0
10/28/2024 10:10	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.41	0	0	0	0	0	0
10/28/2024 10:11	50504	MECH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/28/2024 10:11	50505	MECH_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/28/2024 10:11	50503	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 10:11	50502	MECH_T1	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
10/28/2024 10:11	50506	MECH_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/28/2024 10:11	50501	MECH_T1	4	4	0	1.18	1.03	-0.15	-0.17	0.14	0	0	0	0	0	0
10/28/2024 10:13	11507	FREE_T2	0	2	2	0	0	0	2.19	2.09	0	0	0	0	0	0
10/28/2024 10:15	63501	HEID_TBK1-2	3	2	-1	0.4	0.2	-0.2	0.2	0.1	1	1	0	900	900	0
10/28/2024 10:17	64305	LINC_T1	0	0	0	0	0	0	-0.21	-0.14	0	0	0	0	0	0
10/28/2024 10:18	63501	HEID_TBK1-2	3	2	-1	0.4	0.2	-0.2	0.2	0.1	1	1	0	900	900	0
10/28/2024 10:18	24202	PROV_T4	0	1	1	0	0.7	0.7	0	0	1	1	0	1200	1200	0
10/28/2024 10:19	64802	MONE_T2	1	4	3	0.3	0.28	-0.02	0.32	0.32	0	0	0	0	0	0
10/28/2024 10:19	55001	NEWP_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
10/28/2024 10:19	64801	MONE_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/28/2024 10:19	64302	LINC_T2	0	0	0	0	0	0	1.18	1.18	0	0	0	0	0	0
10/28/2024 10:19	55002	NEWP_T1	4	4	0	0.68	0.75	0.07	-0.2	-0.21	0	0	0	0	0	0
10/28/2024 10:20	57401	SPAN_T1	2	3	1	1.45	1.17	-0.28	0.18	0.14	0	0	0	0	0	0
10/28/2024 10:20	64101	REFR_T1	0	1	1	0	0.5	0.5	-0.01	-0.01	0	0	0	0	0	0
10/28/2024 10:20	57403	SPAN_T1	3	8	5	0.1	0.25	0.15	0.13	0.07	0	0	0	0	0	0
10/28/2024 10:21	57403	SPAN_T1	3	8	5	0.1	0.25	0.15	0.26	0.14	0	0	0	0	0	0
10/28/2024 10:21	14801	TREI_T2	1	2	1	0.1	0.4	0.3	0.39	0.35	0	0	0	0	0	0
10/28/2024 10:21	57401	SPAN_T1	2	3	1	1.45	1.17	-0.28	0	0	0	0	0	0	0	0
10/28/2024 10:21	14802	TREI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/28/2024 10:22	65604	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 10:22	57401	SPAN_T1	2	3	1	1.45	1.17	-0.28	0.14	0.17	0	0	0	0	0	0
10/28/2024 10:22	65602	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/28/2024 10:22	57403	SPAN_T1	3	8	5	0.1	0.25	0.15	0	0	0	0	0	0	0	0
10/28/2024 10:22	65601	QVIL_T2	0	3	3	0	0.2	0.2	-1.15	-1.19	1	1	0	900	900	0
10/28/2024 10:24	44902	SCOT_T2	0	0	0	0	0	0	-0.97	-0.96	0	0	0	0	0	0
10/28/2024 10:24	42701	AUGU_T1	1	1	0	1	1	0	0	0	2	2	0	1800	1800	0
10/28/2024 10:25	46203	DANV_T2	0	1	1	0	0.1	0.1	-0.71	-0.66	0	0	0	0	0	0
10/28/2024 10:27	46203	DANV_T2	0	1	1	0	0.1	0.1	-0.71	-0.66	0	0	0	0	0	0
10/28/2024 10:28	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
10/28/2024 10:28	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 10:28	42701	AUGU_T1	1	1	0	1	1	0	0	0	2	2	0	1800	1800	0
10/28/2024 10:31	44502	HAMI_T2	1	1	0	3.3	2.9	-0.4	0	0	0	0	0	0	0	0
10/28/2024 10:31	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/28/2024 10:31	44505	HAMI_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
10/28/2024 10:32	44502	HAMI_T2	1	1	0	3.3	2.9	-0.4	0	0	0	0	0	0	0	0
10/28/2024 10:32	44505	HAMI_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
10/28/2024 10:33	64902	MILL_T2	3	0	-3	0.47	0	-0.47	-0.76	0.19	1	0	-1	900	0	-900
10/28/2024 10:34	43103	SMIL_T2	10	16	6	0.45	0.39	-0.06	-0.89	-0.89	0	0	0	0	0	0
10/28/2024 10:34	43102	SMIL_T2	7	7	0	0.86	0.86	0	0	0	0	0	0	0	0	0
10/28/2024 10:34	43105	SMIL_T2	14	11	-3	0.34	0.39	0.05	0	0	0	0	0	0	0	0
10/28/2024 10:34	41902	REED_T1	0	0	0	0	0	0	0.95	0.95	0	0	0	0	0	0
10/28/2024 10:34	43104	SMIL_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
10/28/2024 10:34	43108	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/28/2024 10:34	43101	SMIL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/28/2024 10:35	43101	SMIL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/28/2024 10:35	59201	THOM_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
10/28/2024 10:35	43102	SMIL_T2	7	7	0	0.86	0.86	0	-0.86	-0.84	1	1	0	600	600	0
10/28/2024 10:35	14704	TREX_T1	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
10/28/2024 10:35	14705	TREX_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
10/28/2024 10:35	59202	THOM_T1	7	13	6	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
10/28/2024 10:35	57201	ROSS_T1	97	40	-57	0.24	0.24	0	-0.45	-0.42	0	0	0	0	0	0
10/28/2024 10:35	43103	SMIL_T2	10	16	6	0.45	0.39	-0.06	-0.89	-0.89	0	0	0	0	0	0
10/28/2024 10:35	57205	ROSS_T1	6	5	-1	0.53	0.64	0.11	0	0	0	0	0	0	0	0
10/28/2024 10:35	57203	ROSS_T1	39	2	-37	0.12	0.2	0.08	0	0	0	0	0	0	0	0
10/28/2024 10:35	43105	SMIL_T2	14	11	-3	0.34	0.39	0.05	0	0	0	0	0	0	0	0
10/28/2024 10:35	43108	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/28/2024 10:35	65601	QVIL_T2	0	5	5	0	0.36	0.36	0	0	0	0	0	0	0	0
10/28/2024 10:35	65602	QVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/28/2024 10:35	43104	SMIL_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
10/28/2024 10:36	57205	ROSS_T1	6	5	-1	0.53	0.64	0.11	0	0	0	0	0	0	0	0
10/28/2024 10:36	57203	ROSS_T1	39	2	-37	0.12	0.2	0.08	0.4	0.35	0	0	0	0	0	0
10/28/2024 10:36	57201	ROSS_T1	97	40	-57	0.24	0.24	0	-0.45	-0.42	0	0	0	0	0	0
10/28/2024 10:37	57203	ROSS_T1	39	2	-37	0.12	0.2	0.08	0.35	0.36	0	0	0	0	0	0
10/28/2024 10:37	43402	BENT_T1	0	99	99	0	0.2	0.2	-1.35	-1.3	2	2	0	1500	1500	0
10/28/2024 10:37	17002	RIRO_T2	4	3	-1	0.5	0.23	-0.27	0.58	0.59	0	0	0	0	0	0
10/28/2024 10:37	57201	ROSS_T1	97	40	-57	0.24	0.24	0	0	0	0	0	0	0	0	0
10/28/2024 10:37	57205	ROSS_T1	6	5	-1	0.53	0.64	0.11	0	0	0	0	0	0	0	0
10/28/2024 10:38	57201	ROSS_T1	97	40	-57	0.24	0.24	0	-0.42	-0.44	0	0	0	0	0	0
10/28/2024 10:38	43101	SMIL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/28/2024 10:38	43103	SMIL_T2	10	16	6	0.45	0.39	-0.06	0	0	0	0	0	0	0	0
10/28/2024 10:38	43108	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/28/2024 10:38	43105	SMIL_T2	14	11	-3	0.34	0.39	0.05	0	0	0	0	0	0	0	0
10/28/2024 10:38	43102	SMIL_T2	7	7	0	0.86	0.86	0	0	0	0	0	0	0	0	0
10/28/2024 10:38	57205	ROSS_T1	6	5	-1	0.53	0.64	0.11	0.22	0.22	0	0	0	0	0	0
10/28/2024 10:38	43104	SMIL_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
10/28/2024 10:38	57203	ROSS_T1	39	2	-37	0.12	0.2	0.08	0.71	0.72	0	0	0	0	0	0
10/28/2024 10:39	20403	ASHF_T2	0	6	6	0	0.37	0.37	1.2	0.81	0	0	0	0	0	0
10/28/2024 10:39	60901	DONG_T2	2	4	2	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/28/2024 10:39	60902	DONG_T2	1	1	0	0.3	0.4	0.1	0.7	0.79	0	0	0	0	0	0
10/28/2024 10:39	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 10:39	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 10:39	20401	ASHF_T2	2	5	3	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/28/2024 10:40	24902	WHHA_T1	0	0	0	0	0	0	0.75	0.72	0	0	0	0	0	0
10/28/2024 10:40	43402	BENT_T1	0	99	99	0	0.2	0.2	-1.35	-1.3	2	2	0	1500	1500	0
10/28/2024 10:41	17803	GILB_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/28/2024 10:41	17805	GILB_T2	1	1	0	0.2	0.3	0.1	-0.08	-0.05	0	0	0	0	0	0
10/28/2024 10:41	24902	WHHA_T1	0	0	0	0	0	0	0.75	0.72	0	0	0	0	0	0
10/28/2024 10:41	17804	GILB_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/28/2024 10:42	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.02	0	0	0	0	0	0
10/28/2024 10:42	17802	GILB_T1	2	2	0	0.15	0.7	0.55	0.11	0.12	0	0	0	0	0	0
10/28/2024 10:42	67605	WARW_T1	4	8	4	0.18	0.29	0.11	0	0	0	0	0	0	0	0
10/28/2024 10:42	53501	EVIL_T2	2	2	0	1	0.75	-0.25	-1.57	-1.37	4	4	0	2400	2400	0
10/28/2024 10:43	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 10:43	20403	ASHF_T2	0	6	6	0	0.37	0.37	1.2	0.81	0	0	0	0	0	0
10/28/2024 10:43	53501	EVIL_T2	2	2	0	1	0.75	-0.25	-0.79	-0.69	2	2	0	1200	1200	0
10/28/2024 10:43	45501	DERR_T2	0	1	1	0	0.1	0.1	0.84	0.88	2	2	0	1800	1800	0
10/28/2024 10:43	20401	ASHF_T2	2	5	3	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/28/2024 10:43	10801	CHHI_T1	0	0	0	0	0	0	-1.45	-1.47	2	2	0	1500	1500	0
10/28/2024 10:44	59202	THOM_T1	7	13	6	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
10/28/2024 10:44	59201	THOM_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
10/28/2024 10:44	53501	EVIL_T2	2	2	0	1	0.75	-0.25	-1.57	-1.37	4	4	0	2400	2400	0
10/28/2024 10:45	53501	EVIL_T2	2	2	0	0.75	0.3	-0.45	-0.79	-0.69	2	2	0	1200	1200	0
10/28/2024 10:46	59202	THOM_T1	0	16	16	0	0.28	0.28	0	0	0	0	0	0	0	0
10/28/2024 10:46	59201	THOM_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
10/28/2024 10:47	17804	GILB_T2	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
10/28/2024 10:47	17805	GILB_T2	1	2	1	0.2	0.4	0.2	-0.08	-0.05	0	0	0	0	0	0
10/28/2024 10:47	17803	GILB_T2	0	5	5	0	0.24	0.24	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/28/2024 10:48	65503	MOJO_T2	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
10/28/2024 10:50	43104	SMIL_T2	2	4	2	0.5	0.58	0.08	-0.76	-0.74	1	1	0	300	300	0
10/28/2024 10:50	43101	SMIL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
10/28/2024 10:50	43102	SMIL_T2	6	7	1	0.93	0.84	-0.09	0	0	0	0	0	0	0	0
10/28/2024 10:50	43105	SMIL_T2	10	13	3	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
10/28/2024 10:50	43108	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/28/2024 10:50	43103	SMIL_T2	15	19	4	0.39	0.47	0.08	0	0	0	0	0	0	0	0
10/28/2024 10:51	43108	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/28/2024 10:51	43105	SMIL_T2	10	13	3	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
10/28/2024 10:51	43101	SMIL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
10/28/2024 10:51	59101	WALK_T2	0	0	0	0	0	0	2.23	2.31	0	0	0	0	0	0
10/28/2024 10:51	43102	SMIL_T2	6	7	1	0.93	0.84	-0.09	0	0	0	0	0	0	0	0
10/28/2024 10:51	66901	SHIL_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
10/28/2024 10:51	43103	SMIL_T2	15	19	4	0.39	0.47	0.08	0	0	0	0	0	0	0	0
10/28/2024 10:51	66903	SHIL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/28/2024 10:51	43104	SMIL_T2	2	4	2	0.5	0.58	0.08	-0.74	-0.77	1	1	0	300	300	0
10/28/2024 10:52	43104	SMIL_T2	2	4	2	0.5	0.58	0.08	-0.74	-0.77	1	1	0	300	300	0
10/28/2024 10:52	43101	SMIL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
10/28/2024 10:52	43108	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/28/2024 10:52	43102	SMIL_T2	6	7	1	0.93	0.84	-0.09	0	0	0	0	0	0	0	0
10/28/2024 10:52	43103	SMIL_T2	15	19	4	0.39	0.47	0.08	0	0	0	0	0	0	0	0
10/28/2024 10:52	42701	AUGU_T1	1	2	1	0.8	0.65	-0.15	0	0	2	2	0	1800	1800	0
10/28/2024 10:52	66903	SHIL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/28/2024 10:52	45501	DERR_T2	1	1	0	0.1	1.1	1	0.88	0.83	2	2	0	1800	1800	0
10/28/2024 10:52	66901	SHIL_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
10/28/2024 10:52	43105	SMIL_T2	10	13	3	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
10/28/2024 10:53	59101	WALK_T2	0	0	0	0	0	0	2.31	2.51	0	0	0	0	0	0
10/28/2024 10:54	67402	WAKE_T2	1	2	1	0.1	0.45	0.35	0.35	0.38	1	1	0	600	600	0
10/28/2024 10:54	43104	SMIL_T2	2	4	2	0.5	0.58	0.08	-0.74	-0.77	1	1	0	300	300	0
10/28/2024 10:54	43102	SMIL_T2	6	7	1	0.93	0.84	-0.09	0	0	0	0	0	0	0	0
10/28/2024 10:54	67401	WAKE_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
10/28/2024 10:54	43105	SMIL_T2	10	13	3	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
10/28/2024 10:54	43101	SMIL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
10/28/2024 10:54	43108	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/28/2024 10:54	43103	SMIL_T2	15	19	4	0.39	0.47	0.08	0	0	0	0	0	0	0	0
10/28/2024 10:54	59101	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 10:55	46002	BERW_T2	1	2	1	0.1	0.15	0.05	-0.56	-0.81	1	1	0	900	900	0
10/28/2024 10:55	59101	WALK_T2	0	0	0	0	0	0	2.31	2.51	0	0	0	0	0	0
10/28/2024 10:55	67106	SPRI_T2	0	0	0	0	0	0	-1.31	-1.31	1	1	0	900	900	0
10/28/2024 10:55	46004	BERW_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 10:55	11203	ELHE_T1	0	0	0	0	0	0	0.95	1.11	0	0	0	0	0	0
10/28/2024 10:56	15001	BLMO_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
10/28/2024 10:56	42701	AUGU_T1	1	2	1	0.8	0.65	-0.15	0	0	2	2	0	1800	1800	0
10/28/2024 10:57	15001	BLMO_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
10/28/2024 10:59	25502	MADI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 10:59	25501	MADI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 10:59	25503	MADI_T1	0	0	0	0	0	0	-1.14	-1.09	0	0	0	0	0	0
10/28/2024 11:00	46803	HEPB_T2	2	5	3	0.3	0.3	0	0.26	0.23	0	0	0	0	0	0
10/28/2024 11:00	46801	HEPB_T2	3	6	3	0.97	0.53	-0.44	0	0	0	0	0	0	0	0
10/28/2024 11:01	40101	HUNT_T2	11	2	-9	0.19	0	-0.19	-0.43	-0.53	0	0	0	0	0	0
10/28/2024 11:01	63601	LETO_T1	2	7	5	0.5	0.56	0.06	1.37	1.51	0	0	0	0	0	0
10/28/2024 11:01	63602	LETO_T1	1	28	27	0.2	0.11	-0.09	0	0	0	0	0	0	0	0
10/28/2024 11:02	22404	MORG_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/28/2024 11:02	22405	MORG_T2	0	12	12	0	0.18	0.18	-0.27	-0.25	0	0	0	0	0	0
10/28/2024 11:02	22406	MORG_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/28/2024 11:02	22401	MORG_T2	0	60	60	0	0.33	0.33	0	0	0	0	0	0	0	0
10/28/2024 11:03	65603	QVIL_T2	0	0	0	0	0	0	0.57	0.52	0	0	0	0	0	0
10/28/2024 11:03	65602	QVIL_T2	2	5	3	0.2	0.22	0.02	0	0	0	0	0	0	0	0
10/28/2024 11:03	41801	GOCI_T2	1	3	2	0.2	0.53	0.33	0	0	0	0	0	0	0	0
10/28/2024 11:03	42701	AUGU_T1	2	3	1	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
10/28/2024 11:03	65601	QVIL_T2	5	9	4	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
10/28/2024 11:04	12601	MACA_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
10/28/2024 11:04	12606	MACA_T1	0	0	0	0	0	0	-0.38	-0.37	1	1	0	900	900	0
10/28/2024 11:05	67401	WAKE_T2	1	2	1	0.6	0.6	0	0	0	0	0	0	0	0	0
10/28/2024 11:05	67402	WAKE_T2	2	2	0	0.3	0.45	0.15	0.35	0.38	1	1	0	600	600	0
10/28/2024 11:05	43102	SMIL_T2	7	9	2	0.84	0.8	-0.04	-0.83	-0.81	1	1	0	600	600	0
10/28/2024 11:05	43101	SMIL_T2	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
10/28/2024 11:05	43103	SMIL_T2	8	21	13	0.61	0.51	-0.1	0	0	0	0	0	0	0	0
10/28/2024 11:05	66903	SHIL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
10/28/2024 11:05	43104	SMIL_T2	4	4	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
10/28/2024 11:05	66902	SHIL_T2	0	0	0	0	0	0	-2.04	-2.08	0	0	0	0	0	0
10/28/2024 11:05	43105	SMIL_T2	10	16	6	0.37	0.44	0.07	0	0	0	0	0	0	0	0
10/28/2024 11:07	65601	QVIL_T2	5	9	4	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
10/28/2024 11:07	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 11:07	65602	QVIL_T2	2	5	3	0.2	0.22	0.02	0	0	0	0	0	0	0	0
10/28/2024 11:08	60201	ATGL_T2	1	17	16	0.2	0.18	-0.02	-0.06	-0.18	0	0	0	0	0	0
10/28/2024 11:10	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
10/28/2024 11:10	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
10/28/2024 11:11	61701	ELIZ_T1	1	2	1	5.6	3.55	-2.05	0	0	0	0	0	0	0	0
10/28/2024 11:11	46002	BERW_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
10/28/2024 11:11	61703	ELIZ_T1	1	4	3	0.5	0.4	-0.1	-2.56	-2.51	2	2	0	2100	2100	0
10/28/2024 11:11	46004	BERW_T2	1	3	2	1	0.15	-0.85	-0.46	-0.48	0	0	0	0	0	0
10/28/2024 11:12	46001	BERW_T1	0	1	1	0	0.3	0.3	0.7	0.68	0	0	0	0	0	0
10/28/2024 11:12	46004	BERW_T2	1	3	2	1	0.15	-0.85	-0.46	-0.48	0	0	0	0	0	0
10/28/2024 11:12	46002	BERW_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
10/28/2024 11:12	15703	TANN_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
10/28/2024 11:12	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
10/28/2024 11:12	61701	ELIZ_T1	1	2	1	5.6	3.55	-2.05	0	0	0	0	0	0	0	0
10/28/2024 11:12	61703	ELIZ_T1	1	4	3	0.5	0.4	-0.1	-2.56	-2.51	2	2	0	2100	2100	0
10/28/2024 11:13	61703	ELIZ_T1	1	4	3	0.5	0.4	-0.1	-2.56	-2.51	2	2	0	2100	2100	0
10/28/2024 11:13	61701	ELIZ_T1	1	2	1	5.6	3.55	-2.05	0	0	0	0	0	0	0	0
10/28/2024 11:14	61703	ELIZ_T1	1	4	3	0.5	0.4	-0.1	-2.56	-2.51	2	2	0	2100	2100	0
10/28/2024 11:14	61701	ELIZ_T1	1	2	1	5.6	3.55	-2.05	0.27	0.36	0	0	0	0	0	0
10/28/2024 11:15	46002	BERW_T2	2	4	2	0.15	0.28	0.13	0	0	0	0	0	0	0	0
10/28/2024 11:15	46004	BERW_T2	1	3	2	0.1	0.2	0.1	-0.46	-0.48	0	0	0	0	0	0
10/28/2024 11:15	64901	MILL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 11:15	64904	MILL_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
10/28/2024 11:16	63501	HEID_TBK1-2	3	7	4	0.2	0.37	0.17	0.27	0.35	2	2	0	1800	1800	0
10/28/2024 11:16	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
10/28/2024 11:16	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
10/28/2024 11:17	13302	ORVI_T2	0	0	0	0	0	0	1.32	1.46	0	0	0	0	0	0
10/28/2024 11:17	63501	HEID_TBK1-2	3	7	4	0.2	0.37	0.17	0.13	0.18	1	1	0	900	900	0
10/28/2024 11:18	15603	NSTR_T2	1	1	0	0.3	0.7	0.4	-0.63	-0.61	0	0	0	0	0	0
10/28/2024 11:21	54602	SUMM_T2	13	16	3	0.19	0.34	0.15	0	0	0	0	0	0	0	0
10/28/2024 11:21	13701	SCHN_T2	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
10/28/2024 11:21	54601	SUMM_T2	9	12	3	0.39	0.51	0.12	-2.93	-2.94	2	2	0	2100	2100	0
10/28/2024 11:21	13704	SCHN_T2	1	1	0	0.1	0.1	0	-0.38	-0.4	0	0	0	0	0	0
10/28/2024 11:23	59402	RFLD_T2	0	0	0	0	0	0	-0.21	-0.23	1	1	0	450	450	0
10/28/2024 11:24	66501	SMAN_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
10/28/2024 11:24	66502	SMAN_T2	7	14	7	0.23	0.34	0.11	0	0	0	0	0	0	0	0
10/28/2024 11:24	66504	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
10/28/2024 11:25	67605	WARW_T1	7	20	13	0.36	0.5	0.14	0	0	0	0	0	0	0	0
10/28/2024 11:25	67603	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/28/2024 11:26	23902	EFMO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 11:26	40802	EXCH_T2	1	1	0	0.3	0.8	0.5	-0.28	-0.41	0	0	0	0	0	0
10/28/2024 11:26	23901	EFMO_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
10/28/2024 11:26	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 11:27	44301	BEAV_T2	1	8	7	0.3	0.21	-0.09	0.36	0.59	4	4	0	3000	3000	0
10/28/2024 11:27	44302	BEAV_T2	2	4	2	0.25	0.7	0.45	0	0	0	0	0	0	0	0
10/28/2024 11:28	40802	EXCH_T2	1	1	0	0.3	0.8	0.5	-0.28	-0.41	0	0	0	0	0	0
10/28/2024 11:28	46803	HEPB_T2	4	5	1	0.33	0.34	0.01	0	0	0	0	0	0	0	0
10/28/2024 11:28	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 11:28	46801	HEPB_T2	6	3	-3	0.5	1.07	0.57	0.57	0.53	0	0	0	0	0	0
10/28/2024 11:31	40801	EXCH_T2	1	1	0	0.1	0.1	0	-0.57	-0.49	1	1	0	1200	1200	0
10/28/2024 11:31	40802	EXCH_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/28/2024 11:32	64202	KINZ_T1	3	4	1	0.53	0.6	0.07	0	0	0	0	0	0	0	0
10/28/2024 11:32	64203	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 11:32	64204	KINZ_T1	58	69	11	0.53	1.23	0.7	0	0	0	0	0	0	0	0
10/28/2024 11:32	64201	KINZ_T1	1	2	1	0.3	0.65	0.35	-0.53	-0.26	3	3	0	1500	1500	0
10/28/2024 11:33	10801	OHHI_T1	0	5	5	0	0.22	0.22	-1.44	-1.42	2	2	0	1500	1500	0
10/28/2024 11:33	58401	MORO_T1	1	1	0	0.1	0.3	0.2	-1.11	-1.15	1	1	0	600	600	0
10/28/2024 11:33	65207	PRIN_T4	2	3	1	1.35	0.55	-0.8	0	0	0	0	0	0	0	0
10/28/2024 11:33	67804	WLAN_T1	5	8	3	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
10/28/2024 11:33	64101	REFR_T1	1	3	2	0.2	0.47	0.27	-0.01	-0.01	0	0	0	0	0	0
10/28/2024 11:33	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 11:33	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 11:33	67805	WLAN_T1	0	0	0	0	0	0	-0.98	-0.9	0	0	0	0	0	0
10/28/2024 11:34	65202	PRIN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/28/2024 11:34	46503	LOHA_T1	0	0	0	0	0	0	-1.24	-1.24	0	0	0	0	0	0
10/28/2024 11:34	65205	PRIN_T1	1	2	1	0.7	1	0.3	0	0	0	0	0	0	0	0
10/28/2024 11:34	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 11:34	65207	PRIN_T4	2	3	1	1.35	0.55	-0.8	0	0	1	1	0	1200	1200	0
10/28/2024 11:34	46504	LOHA_T1	2	2	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
10/28/2024 11:34	46506	LOHA_T1	4	3	-1	3.65	4.87	1.22	0	0	0	0	0	0	0	0
10/28/2024 11:34	65503	MOJO_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
10/28/2024 11:35	58401	MORO_T1	1	1	0	0.1	0.3	0.2	-1.11	-1.15	1	1	0	600	600	0
10/28/2024 11:35	58402	MORO_T1	0	1	1	0	0	0	-0.16	-0.27	2	2	0	1500	1500	0
10/28/2024 11:37	65601	QVIL_T2	8	68	60	0.31	0.21	-0.1	0	0	0	0	0	0	0	0
10/28/2024 11:37	65602	QVIL_T2	5	42	37	0.22	0.46	0.24	0	0	0	0	0	0	0	0
10/28/2024 11:37	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 11:38	54602	SUMM_T2	16	16	0	0.34	0.46	0.12	0	0	0	0	0	0	0	0
10/28/2024 11:38	60101	COCA_T1	0	1	1	0	0.2	0.2	0.87	0.93	0	0	0	0	0	0
10/28/2024 11:38	60801	BUCK_T1	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
10/28/2024 11:38	54701	NEBL_T1	4	9	5	0.83	0.84	0.01	0	0	0	0	0	0	0	0
10/28/2024 11:38	61202	REIN_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/28/2024 11:38	54601	SUMM_T2	12	9	-3	0.49	0.59	0.1	-2.97	-2.97	2	2	0	2100	2100	0
10/28/2024 11:38	64602	LEOL_T1	0	0	0	0	0	0	0.29	0.23	0	0	0	0	0	0
10/28/2024 11:38	60803	BUCK_T1	1	9	8	0.1	0.18	0.08	-0.5	-0.48	1	1	0	600	600	0
10/28/2024 11:39	54501	ENOL_T2	3	4	1	0.17	0.28	0.11	0	0	0	0	0	0	0	0
10/28/2024 11:39	54502	ENOL_T2	1	1	0	0.2	0.5	0.3	-1.42	-1.44	0	0	0	0	0	0
10/28/2024 11:39	54505	ENOL_T2	1	2	1	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
10/28/2024 11:39	54504	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/28/2024 11:39	60801	BUCK_T1	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/28/2024 11:39	54601	SUMM_T2	12	9	-3	0.49	0.59	0.1	-5.94	-5.94	4	4	0	4200	4200	0
10/28/2024 11:39	54602	SUMM_T2	16	16	0	0.34	0.46	0.12	0	0	0	0	0	0	0	0
10/28/2024 11:39	60803	BUCK_T1	1	9	8	0.1	0.18	0.08	-0.5	-0.48	1	1	0	600	600	0
10/28/2024 11:40	60803	BUCK_T1	1	9	8	0.1	0.18	0.08	-0.5	-0.48	1	1	0	600	600	0
10/28/2024 11:40	60801	BUCK_T1	1	3	2	0.3	0.33	0.03	0.11	0.1	0	0	0	0	0	0
10/28/2024 11:40	54602	SUMM_T2	16	16	0	0.34	0.46	0.12	0	0	0	0	0	0	0	0
10/28/2024 11:40	43402	BENT_T1	0	0	0	0	0	0	-1.02	-0.74	2	1	-1	1500	900	-600
10/28/2024 11:40	54601	SUMM_T2	12	9	-3	0.49	0.59	0.1	-2.97	-2.97	2	2	0	2100	2100	0
10/28/2024 11:42	60101	COCA_T1	0	1	1	0	0.2	0.2	0.29	0.31	0	0	0	0	0	0
10/28/2024 11:42	60803	BUCK_T1	1	9	8	0.1	0.18	0.08	-1	-0.96	2	2	0	1200	1200	0
10/28/2024 11:42	60801	BUCK_T1	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
10/28/2024 11:42	61202	REIN_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/28/2024 11:43	57104	SPHI_T2	2	4	2	0.7	0.5	-0.2	0.54	0.51	0	0	0	0	0	0
10/28/2024 11:43	57106	SPHI_T2	3	3	0	1.17	1.3	0.13	0	0	0	0	0	0	0	0
10/28/2024 11:43	48901	FOSP_T2	0	2	2	0	0.2	0.2	-0.18	-0.24	2	2	0	1200	1200	0
10/28/2024 11:43	48902	FOSP_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/28/2024 11:43	57101	SPHI_T2	5	5	0	1.36	1.26	-0.1	0	0	0	0	0	0	0	0
10/28/2024 11:44	11301	EMMA_T1	0	0	0	0	0	0	-0.85	-0.87	0	0	0	0	0	0
10/28/2024 11:44	48902	FOSP_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/28/2024 11:44	48901	FOSP_T2	0	2	2	0	0.2	0.2	-0.09	-0.12	1	1	0	600	600	0
10/28/2024 11:44	11303	EMMA_T1	3	3	0	0.87	1	0.13	0	0	0	0	0	0	0	0
10/28/2024 11:45	48901	FOSP_T2	0	2	2	0	0.2	0.2	-0.09	-0.12	1	1	0	600	600	0
10/28/2024 11:45	48902	FOSP_T2	0	3	3	0	0.17	0.17	0.71	0.45	0	0	0	0	0	0
10/28/2024 11:45	22903	HARW_T1	0	21	21	0	0.8	0.8	0	0	0	0	0	0	0	0
10/28/2024 11:45	22901	HARW_T1	0	0	0	0	0	0	-0.24	-0.19	1	1	0	1200	1200	0
10/28/2024 11:46	52002	LING_T2	4	4	0	0.5	0.63	0.13	0	0	0	0	0	0	0	0
10/28/2024 11:46	43402	BENT_T1	0	0	0	0	0	0	-1.02	-0.74	2	1	-1	1500	900	-600
10/28/2024 11:46	48901	FOSP_T2	0	3	3	0	0.27	0.27	-0.09	-0.12	1	1	0	600	600	0
10/28/2024 11:46	52006	LING_T2	2	2	0	1.2	1.35	0.15	0	0	0	0	0	0	0	0
10/28/2024 11:46	59302	MCAL_T1	2	4	2	0.15	0.3	0.15	0	0	0	0	0	0	0	0
10/28/2024 11:46	52004	LING_T2	10	10	0	1.86	1.94	0.08	0.31	0.26	0	0	0	0	0	0
10/28/2024 11:46	59301	MCAL_T1	4	6	2	0.83	0.82	-0.01	-1.37	-1.45	1	1	0	600	600	0
10/28/2024 11:46	48902	FOSP_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
10/28/2024 11:47	67605	WARW_T1	20	21	1	0.5	0.68	0.18	-1.09	-1.09	0	0	0	0	0	0
10/28/2024 11:47	52003	LING_T1	4	3	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
10/28/2024 11:47	48901	FOSP_T2	0	3	3	0	0.27	0.27	-0.09	-0.12	1	1	0	600	600	0
10/28/2024 11:47	52004	LING_T2	10	10	0	1.86	1.94	0.08	0.31	0.26	0	0	0	0	0	0
10/28/2024 11:47	52001	LING_T1	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
10/28/2024 11:47	48902	FOSP_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
10/28/2024 11:47	52002	LING_T2	4	4	0	0.5	0.63	0.13	0	0	0	0	0	0	0	0
10/28/2024 11:47	52006	LING_T2	2	2	0	1.2	1.35	0.15	0	0	0	0	0	0	0	0
10/28/2024 11:47	67603	WARW_T1	1	2	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
10/28/2024 11:48	61202	REIN_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/28/2024 11:49	52006	LING_T2	2	2	0	1.2	1.35	0.15	0	0	0	0	0	0	0	0
10/28/2024 11:49	52002	LING_T2	4	4	0	0.5	0.63	0.13	0	0	0	0	0	0	0	0
10/28/2024 11:49	52004	LING_T2	10	10	0	1.86	1.94	0.08	0.94	0.78	0	0	0	0	0	0
10/28/2024 11:52	65602	QVIL_T2	15	43	28	0.19	0.46	0.27	0	0	0	0	0	0	0	0
10/28/2024 11:52	65601	QVIL_T2	8	71	63	0.4	0.21	-0.19	0	0	0	0	0	0	0	0
10/28/2024 11:52	65604	QVIL_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
10/28/2024 11:55	10901	COOP_T2	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0	0
10/28/2024 11:55	10903	COOP_T2	29	7	-22	0.23	0.44	0.21	0.17	0.12	1	1	0	600	600	0
10/28/2024 12:01	57203	ROSS_T1	11	1	-10	0.16	0.2	0.04	0	0	0	0	0	0	0	0
10/28/2024 12:01	57205	ROSS_T1	12	4	-8	0.5	0.85	0.35	0.25	0.26	0	0	0	0	0	0
10/28/2024 12:01	57201	ROSS_T1	100	13	-87	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
10/28/2024 12:02	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 12:02	65503	MOJO_T2	2	1	-1	0.4	0.2	-0.2	-0.17	-0.2	0	0	0	0	0	0
10/28/2024 12:03	64204	KINZ_T1	69	66	-3	1.23	0.8	-0.43	0	0	0	0	0	0	0	0
10/28/2024 12:03	64201	KINZ_T1	2	2	0	0.65	0.25	-0.4	0	0	0	0	0	0	0	0
10/28/2024 12:03	64203	KINZ_T1	0	0	0	0	0	0	0.06	0.02	2	2	0	1800	1800	0
10/28/2024 12:03	64202	KINZ_T1	3	3	0	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
10/28/2024 12:04	65603	QVIL_T2	0	11	11	0	0.13	0.13	0.33	0.15	0	0	0	0	0	0
10/28/2024 12:04	65604	QVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/28/2024 12:04	65601	QVIL_T2	68	114	46	0.21	0.28	0.07	0	0	0	0	0	0	0	0
10/28/2024 12:04	65602	QVIL_T2	42	45	3	0.46	0.64	0.18	0	0	0	0	0	0	0	0
10/28/2024 12:06	55002	NEWP_T1	8	11	3	0.81	0.67	-0.14	0	0	0	0	0	0	0	0
10/28/2024 12:06	55001	NEWP_T1	5	5	0	0.52	0.58	0.06	-0.31	-0.31	0	0	0	0	0	0
10/28/2024 12:06	58401	MORO_T1	1	1	0	0.3	0.1	-0.2	-2.29	-2.27	2	2	0	1200	1200	0
10/28/2024 12:06	58402	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/28/2024 12:07	65503	MOJO_T2	2	1	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/28/2024 12:07	65502	MOJO_T2	0	0	0	0	0	0	-0.27	-0.14	0	0	0	0	0	0
10/28/2024 12:09	57402	SPAN_T2	2	0	-2	0.2	0	-0.2	-0.53	-0.55	0	0	0	0	0	0
10/28/2024 12:09	64601	LEOL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 12:09	64602	LEOL_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
10/28/2024 12:09	60803	BUCK_T1	9	18	9	0.18	0.35	0.17	0	0	0	0	0	0	0	0
10/28/2024 12:09	60801	BUCK_T1	3	42	39	0.33	0.32	-0.01	-0.18	-0.18	0	0	0	0	0	0
10/28/2024 12:09	45902	AUBU_T1	0	3	3	0	0.43	0.43	0.01	0.01	1	1	0	600	600	0
10/28/2024 12:10	45902	AUBU_T1	0	3	3	0	0.43	0.43	0.01	0.01	1	1	0	600	600	0
10/28/2024 12:10	10705	CATA_T2	0	1	1	0	0.9	0.9	-1.3	-1.31	0	0	0	0	0	0
10/28/2024 12:10	10707	CATA_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
10/28/2024 12:10	60803	BUCK_T1	9	18	9	0.18	0.35	0.17	0	0	0	0	0	0	0	0
10/28/2024 12:10	60801	BUCK_T1	3	42	39	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
10/28/2024 12:11	45902	AUBU_T1	0	3	3	0	0.43	0.43	0.01	0.01	2	2	0	1200	1200	0
10/28/2024 12:11	48302	ORWI_T2	2	2	0	0.55	1	0.45	0	0	0	0	0	0	0	0
10/28/2024 12:11	48303	ORWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/28/2024 12:13	40801	EXCH_T2	1	1	0	0.1	0.1	0	-0.54	-0.53	1	1	0	1200	1200	0
10/28/2024 12:13	40802	EXCH_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/28/2024 12:14	48902	FOSP_T2	3	4	1	0.17	0.33	0.16	0	0	0	0	0	0	0	0
10/28/2024 12:14	14204	EALL_T2	0	0	0	0	0	0	0.16	0.2	0	0	0	0	0	0
10/28/2024 12:14	60801	BUCK_T1	3	42	39	0.33	0.32	-0.01	-0.18	-0.18	0	0	0	0	0	0
10/28/2024 12:14	60101	COCA_T1	1	1	0	0.2	0.3	0.1	0.26	0.25	0	0	0	0	0	0
10/28/2024 12:14	48903	FOSP_T2	2	5	3	0.2	0.3	0.1	-0.11	-0.1	1	1	0	600	600	0
10/28/2024 12:14	67605	WARW_T1	21	21	0	0.68	0.6	-0.08	-1.01	-1.07	0	0	0	0	0	0
10/28/2024 12:14	60803	BUCK_T1	9	18	9	0.18	0.35	0.17	0	0	0	0	0	0	0	0
10/28/2024 12:14	67603	WARW_T1	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
10/28/2024 12:15	48902	FOSP_T2	0	4	4	0	0.33	0.33	0.25	0.28	0	0	0	0	0	0
10/28/2024 12:15	48901	FOSP_T2	0	5	5	0	0.3	0.3	-0.22	-0.2	2	2	0	1200	1200	0
10/28/2024 12:16	55002	NEWP_T1	6	10	4	0.88	0.72	-0.16	0	0	0	0	0	0	0	0
10/28/2024 12:16	55001	NEWP_T1	5	3	-2	0.58	0.67	0.09	-0.31	-0.33	0	0	0	0	0	0
10/28/2024 12:16	28102	TWLA_T2	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
10/28/2024 12:17	48902	FOSP_T2	2	4	2	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
10/28/2024 12:17	48901	FOSP_T2	3	5	2	0.27	0.3	0.03	0	0	0	0	0	0	0	0
10/28/2024 12:18	67605	WARW_T1	18	21	3	0.53	0.6	0.07	-1.01	-1.07	0	0	0	0	0	0
10/28/2024 12:18	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
10/28/2024 12:18	45702	LIND_T2	2	3	1	0.8	0.9	0.1	-0.59	-0.63	0	0	0	0	0	0
10/28/2024 12:18	67603	WARW_T1	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
10/28/2024 12:18	64305	LINC_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
10/28/2024 12:18	25402	LAHA_T2	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
10/28/2024 12:18	45701	LIND_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/28/2024 12:19	15204	SFAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 12:19	15203	SFAR_T2	3	5	2	0.4	0.42	0.02	-1.35	-1.35	0	0	0	0	0	0
10/28/2024 12:20	65602	QVIL_T2	38	47	9	0.36	0.63	0.27	0	0	0	0	0	0	0	0
10/28/2024 12:20	65604	QVIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
10/28/2024 12:20	15204	SFAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 12:20	15203	SFAR_T2	3	5	2	0.4	0.42	0.02	-2.7	-2.7	0	0	0	0	0	0
10/28/2024 12:20	65603	QVIL_T2	0	11	11	0	0.13	0.13	0.15	0.27	0	0	0	0	0	0
10/28/2024 12:20	65601	QVIL_T2	34	117	83	0.22	0.27	0.05	0	0	0	0	0	0	0	0
10/28/2024 12:21	14801	TREI_T2	4	5	1	0.38	0.62	0.24	0	0	0	0	0	0	0	0
10/28/2024 12:21	14802	TREI_T2	4	7	3	0.3	0.31	0.01	0.33	0.34	0	0	0	0	0	0
10/28/2024 12:22	65602	QVIL_T2	38	47	9	0.36	0.63	0.27	0	0	0	0	0	0	0	0
10/28/2024 12:22	14801	TREI_T2	4	5	1	0.38	0.62	0.24	0	0	0	0	0	0	0	0
10/28/2024 12:22	65603	QVIL_T2	0	11	11	0	0.13	0.13	0.27	0.4	0	0	0	0	0	0
10/28/2024 12:22	65601	QVIL_T2	34	117	83	0.22	0.27	0.05	0	0	0	0	0	0	0	0
10/28/2024 12:22	14802	TREI_T2	4	7	3	0.3	0.31	0.01	0.66	0.68	0	0	0	0	0	0
10/28/2024 12:22	65604	QVIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
10/28/2024 12:23	14802	TREI_T2	4	7	3	0.3	0.31	0.01	0.33	0.34	0	0	0	0	0	0
10/28/2024 12:23	59102	WALK_T2	0	7	7	0	0.46	0.46	0	0	0	0	0	0	0	0
10/28/2024 12:23	59101	WALK_T2	2	1	-1	0.3	0.2	-0.1	3.98	3.7	0	0	0	0	0	0
10/28/2024 12:23	14801	TREI_T2	4	5	1	0.38	0.62	0.24	0	0	0	0	0	0	0	0
10/28/2024 12:24	59101	WALK_T2	2	1	-1	0.3	0.2	-0.1	1.99	1.85	0	0	0	0	0	0
10/28/2024 12:24	59102	WALK_T2	0	7	7	0	0.46	0.46	0	0	0	0	0	0	0	0
10/28/2024 12:26	59101	WALK_T2	2	1	-1	0.3	0.2	-0.1	1.99	1.85	0	0	0	0	0	0
10/28/2024 12:26	11303	EMMA_T1	3	3	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
10/28/2024 12:26	59102	WALK_T2	0	7	7	0	0.46	0.46	0	0	0	0	0	0	0	0
10/28/2024 12:26	11301	EMMA_T1	0	0	0	0	0	0	-0.84	-0.87	0	0	0	0	0	0
10/28/2024 12:28	59102	WALK_T2	0	7	7	0	0.46	0.46	0.33	0.37	0	0	0	0	0	0
10/28/2024 12:28	59101	WALK_T2	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/28/2024 12:32	45702	LIND_T2	3	3	0	0.7	0.9	0.2	-0.63	-0.63	0	0	0	0	0	0
10/28/2024 12:32	45701	LIND_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/28/2024 12:34	59402	RFLD_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/28/2024 12:34	15204	SFAR_T2	1	1	0	0.1	0.1	0	-0.02	-0.01	0	0	0	0	0	0
10/28/2024 12:34	15203	SFAR_T2	4	4	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
10/28/2024 12:36	54201	PENN_T1	10	10	0	0.64	0.51	-0.13	0	0	0	0	0	0	0	0
10/28/2024 12:36	54203	PENN_T1	19	19	0	0.96	0.81	-0.15	0	0	0	0	0	0	0	0
10/28/2024 12:40	44801	EDAN_T2	2	2	0	0.7	0.65	-0.05	-0.45	-0.47	0	0	0	0	0	0
10/28/2024 12:41	14204	EALL_T2	0	0	0	0	0	0	0.13	0.3	0	0	0	0	0	0
10/28/2024 12:42	44801	EDAN_T2	2	2	0	0.7	0.65	-0.05	-0.45	-0.47	0	0	0	0	0	0
10/28/2024 12:45	23203	HIRU_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
10/28/2024 12:45	23201	HIRU_T2	0	2	2	0	0.1	0.1	0.16	0.16	0	0	0	0	0	0
10/28/2024 12:45	23202	HIRU_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/28/2024 12:47	23203	HIRU_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/28/2024 12:47	23202	HIRU_T2	0	2	2	0	0.25	0.25	0.1	0.11	0	0	0	0	0	0
10/28/2024 12:47	23201	HIRU_T2	3	3	0	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
10/28/2024 12:53	24702	FLND_T2	3	1	-2	0.4	0.2	-0.2	0.87	0.78	1	1	0	1200	1200	0
10/28/2024 12:53	50505	MECH_T1	1	1	0	0.4	0.4	0	-0.87	-0.93	0	0	0	0	0	0
10/28/2024 12:53	50504	MECH_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/28/2024 12:53	50501	MECH_T1	4	4	0	0.33	0.75	0.42	0	0	0	0	0	0	0	0
10/28/2024 12:53	50503	MECH_T1	1	0	-1	3.3	0	-3.3	0	0	0	0	0	0	0	0
10/28/2024 12:53	50506	MECH_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
10/28/2024 12:53	50502	MECH_T1	1	1	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
10/28/2024 12:54	16103	BING_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/28/2024 12:54	16101	BING_T2	3	2	-1	0.47	0.25	-0.22	0.33	0.32	0	0	0	0	0	0
10/28/2024 12:54	16102	BING_T2	10	13	3	0.47	0.42	-0.05	0	0	0	0	0	0	0	0
10/28/2024 12:56	16103	BING_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/28/2024 12:56	16101	BING_T2	3	2	-1	0.47	0.25	-0.22	0.33	0.32	0	0	0	0	0	0
10/28/2024 12:56	16102	BING_T2	10	13	3	0.47	0.42	-0.05	0	0	0	0	0	0	0	0
10/28/2024 12:57	17804	GILB_T2	5	6	1	0.36	0.38	0.02	-0.61	-0.6	0	0	0	0	0	0
10/28/2024 12:57	17805	GILB_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
10/28/2024 13:07	66502	SMAN_T2	6	6	0	0.27	0.17	-0.1	0.25	0.26	0	0	0	0	0	0
10/28/2024 13:07	66504	SMAN_T2	4	2	-2	0.38	0.6	0.22	-0.49	-0.5	0	0	0	0	0	0
10/28/2024 13:07	66501	SMAN_T2	2	2	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
10/28/2024 13:08	66502	SMAN_T2	6	6	0	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
10/28/2024 13:08	66505	SMAN_T2	0	0	0	0	0	0	0.41	0.35	1	1	0	900	900	0
10/28/2024 13:08	66501	SMAN_T2	2	2	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
10/28/2024 13:08	66504	SMAN_T2	4	2	-2	0.38	0.6	0.22	0	0	0	0	0	0	0	0
10/28/2024 13:09	66502	SMAN_T2	6	6	0	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
10/28/2024 13:09	66501	SMAN_T2	2	2	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
10/28/2024 13:09	66504	SMAN_T2	4	2	-2	0.38	0.6	0.22	0	0	0	0	0	0	0	0
10/28/2024 13:20	12807	MICK_T1	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
10/28/2024 13:20	12801	MICK_T1	1	1	0	0.6	0.5	-0.1	-0.11	-0.1	1	1	0	600	600	0
10/28/2024 13:20	12803	MICK_T1	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/28/2024 13:20	12802	MICK_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/28/2024 13:21	12803	MICK_T1	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/28/2024 13:21	12802	MICK_T1	1	1	0	0.2	0.1	-0.1	-1.16	-1.19	0	0	0	0	0	0
10/28/2024 13:21	12807	MICK_T1	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
10/28/2024 13:21	12801	MICK_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
10/28/2024 13:22	59101	WALK_T2	0	0	0	0	0	0	1.74	1.99	0	0	0	0	0	0
10/28/2024 13:22	59102	WALK_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/28/2024 13:24	59102	WALK_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/28/2024 13:24	59101	WALK_T2	0	0	0	0	0	0	1.74	1.99	0	0	0	0	0	0
10/28/2024 13:25	59101	WALK_T2	0	0	0	0	0	0	1.74	1.99	0	0	0	0	0	0
10/28/2024 13:25	59102	WALK_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/28/2024 13:26	59102	WALK_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/28/2024 13:26	59101	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 13:27	67402	WAKE_T2	3	3	0	0.3	0.47	0.17	0.36	0.36	1	1	0	600	600	0
10/28/2024 13:27	46001	BERW_T1	0	1	1	0	0.6	0.6	0.74	2.99	0	0	0	0	0	0
10/28/2024 13:27	67401	WAKE_T2	6	8	2	0.22	0.3	0.08	0	0	0	0	0	0	0	0
10/28/2024 13:28	63804	HEMP_T1	1	1	0	6.2	5.9	-0.3	0	0	0	0	0	0	0	0
10/28/2024 13:28	63803	HEMP_T1	1	6	5	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
10/28/2024 13:28	63801	HEMP_T1	1	2	1	0.7	0.8	0.1	0.19	0.18	0	0	0	0	0	0
10/28/2024 13:30	61001	DONV_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/28/2024 13:30	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/28/2024 13:33	40601	PIGR_T1	101	123	22	0.34	0.42	0.08	0	0	0	0	0	0	0	0
10/28/2024 13:33	40603	PIGR_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/28/2024 13:33	40602	PIGR_T1	2	2	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
10/28/2024 13:37	43802	SWIL_T1	0	0	0	0	0	0	-0.28	-0.27	1	1	0	600	600	0
10/28/2024 13:37	43801	SWIL_T1	1	1	0	5.4	5.7	0.3	0	0	0	0	0	0	0	0
10/28/2024 13:37	64802	MONE_T2	121	261	140	0.21	0.2	-0.01	0.17	0.16	0	0	0	0	0	0
10/28/2024 13:37	64801	MONE_T2	4	15	11	0.23	0.19	-0.04	0	0	0	0	0	0	0	0
10/28/2024 13:38	26002	WDAM_T1	3	3	0	0.77	0.57	-0.2	0	0	0	0	0	0	0	0
10/28/2024 13:41	11603	CEAL_T1	0	1	1	0	4.2	4.2	0	0	0	0	0	0	0	0
10/28/2024 13:41	11601	CEAL_T1	1	1	0	0.6	0.5	-0.1	0	0	1	1	0	1200	1200	0
10/28/2024 13:41	44801	EDAN_T2	2	3	1	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
10/28/2024 13:41	44802	EDAN_T2	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
10/28/2024 13:42	44801	EDAN_T2	2	3	1	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
10/28/2024 13:42	44802	EDAN_T2	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
10/28/2024 13:44	63803	HEMP_T1	1	8	7	0.1	0.28	0.18	0	0	0	0	0	0	0	0
10/28/2024 13:44	63801	HEMP_T1	1	3	2	0.4	0.73	0.33	0	0	0	0	0	0	0	0
10/28/2024 13:44	63804	HEMP_T1	1	1	0	6.2	5.8	-0.4	0.94	0.98	0	0	0	0	0	0
10/28/2024 13:44	44801	EDAN_T2	2	3	1	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
10/28/2024 13:44	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 13:44	44802	EDAN_T2	0	0	0	0	0	0	-1.63	-1.65	0	0	0	0	0	0
10/28/2024 13:46	44802	EDAN_T2	0	0	0	0	0	0	-1.63	-1.65	0	0	0	0	0	0
10/28/2024 13:46	44801	EDAN_T2	2	3	1	0.75	0.43	-0.32	0	0	0	0	0	0	0	0
10/28/2024 13:49	42301	MOWR_T2	8	9	1	0.3	0.32	0.02	-0.15	-0.21	0	0	0	0	0	0
10/28/2024 13:49	42302	MOWR_T2	3	4	1	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
10/28/2024 13:51	66502	SMAN_T2	9	12	3	0.34	0.43	0.09	0.34	0.15	0	0	0	0	0	0
10/28/2024 13:51	66501	SMAN_T2	2	2	0	0.85	0.9	0.05	0	0	0	0	0	0	0	0
10/28/2024 13:51	14801	TREI_T2	9	8	-1	0.37	0.38	0.01	0.27	0.27	0	0	0	0	0	0
10/28/2024 13:51	57403	SPAN_T1	11	9	-2	0.43	0.49	0.06	0	0	0	0	0	0	0	0
10/28/2024 13:51	57401	SPAN_T1	2	3	1	1.15	0.97	-0.18	0.13	0.13	0	0	0	0	0	0
10/28/2024 13:51	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 13:51	67501	WEWI_T1	1	1	0	0.8	0.8	0	-0.52	-0.37	0	0	0	0	0	0
10/28/2024 13:51	14802	TREI_T2	4	5	1	0.4	0.42	0.02	0	0	0	0	0	0	0	0
10/28/2024 13:51	66504	SMAN_T2	4	4	0	0.33	0.43	0.1	-0.45	-0.33	0	0	0	0	0	0
10/28/2024 13:52	14801	TREI_T2	9	8	-1	0.37	0.38	0.01	0	0	0	0	0	0	0	0
10/28/2024 13:52	14802	TREI_T2	4	5	1	0.4	0.42	0.02	0.32	0.32	0	0	0	0	0	0
10/28/2024 13:54	67502	WEWI_T2	10	11	1	0.37	0.42	0.05	-0.29	-0.25	0	0	0	0	0	0
10/28/2024 13:54	66501	SMAN_T2	2	2	0	0.85	0.9	0.05	0	0	0	0	0	0	0	0
10/28/2024 13:54	66502	SMAN_T2	9	12	3	0.34	0.43	0.09	0.34	0.15	0	0	0	0	0	0
10/28/2024 13:54	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 13:54	67503	WEWI_T2	1	2	1	9.3	4.6	-4.7	0	0	0	0	0	0	0	0
10/28/2024 13:54	66504	SMAN_T2	4	4	0	0.33	0.43	0.1	0	0	0	0	0	0	0	0
10/28/2024 13:55	66501	SMAN_T2	2	2	0	0.85	0.9	0.05	0	0	0	0	0	0	0	0
10/28/2024 13:55	66504	SMAN_T2	4	4	0	0.33	0.43	0.1	-0.45	-0.33	0	0	0	0	0	0
10/28/2024 13:55	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 13:55	67502	WEWI_T2	10	11	1	0.37	0.42	0.05	-0.29	-0.25	0	0	0	0	0	0
10/28/2024 13:55	67503	WEWI_T2	1	2	1	9.3	4.6	-4.7	0	0	0	0	0	0	0	0
10/28/2024 13:55	66502	SMAN_T2	9	12	3	0.34	0.43	0.09	0.34	0.15	0	0	0	0	0	0
10/28/2024 13:56	14203	EALL_T1	2	2	0	0.5	0.4	-0.1	-0.26	-0.27	1	1	0	1200	1200	0
10/28/2024 13:56	66504	SMAN_T2	4	4	0	0.33	0.43	0.1	-0.45	-0.33	0	0	0	0	0	0
10/28/2024 13:56	45902	AUBU_T1	2	4	2	0.6	0.7	0.1	0.01	0.01	1	1	0	600	600	0
10/28/2024 13:56	45901	AUBU_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/28/2024 13:56	67501	WEWI_T1	1	1	0	0.8	0.8	0	-0.52	-0.37	0	0	0	0	0	0
10/28/2024 13:56	66504	SMAN_T2	2	2	0	0.85	0.9	0.05	0	0	0	0	0	0	0	0
10/28/2024 13:56	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 13:56	66502	SMAN_T2	9	12	3	0.34	0.43	0.09	0.34	0.15	0	0	0	0	0	0
10/28/2024 13:58	45501	DERR_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/28/2024 13:58	45502	DERR_T2	0	0	0	0	0	0	0.23	0.31	0	0	0	0	0	0
10/28/2024 14:02	59301	MCAL_T1	5	14	9	0.94	0.55	-0.39	-1.41	-1.4	1	1	0	600	600	0
10/28/2024 14:02	59302	MCAL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/28/2024 14:04	13704	SCHN_T2	1	3	2	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
10/28/2024 14:04	13701	SCHN_T2	8	7	-1	0.25	0.26	0.01	0	0	0	0	0	0	0	0
10/28/2024 14:05	59201	THOM_T1	1	27	26	1.2	0.27	-0.93	0	0	0	0	0	0	0	0
10/28/2024 14:05	59202	THOM_T1	38	249	211	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
10/28/2024 14:06	13701	SCHN_T2	8	7	-1	0.25	0.26	0.01	-0.13	-0.15	1	1	0	600	600	0
10/28/2024 14:06	13704	SCHN_T2	1	3	2	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
10/28/2024 14:08	59202	THOM_T1	38	249	211	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
10/28/2024 14:08	59201	THOM_T1	1	27	26	1.2	0.27	-0.93	0	0	0	0	0	0	0	0
10/28/2024 14:10	16101	BING_T2	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
10/28/2024 14:10	16103	BING_T2	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/28/2024 14:10	16102	BING_T2	15	13	-2	0.27	0.4	0.13	0.34	0.39	0	0	0	0	0	0
10/28/2024 14:14	63803	HEMP_T1	7	4	-3	0.3	0.33	0.03	0.32	0.28	0	0	0	0	0	0
10/28/2024 14:14	63802	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/28/2024 14:14	63801	HEMP_T1	3	3	0	0.73	0.6	-0.13	0	0	0	0	0	0	0	0
10/28/2024 14:14	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
10/28/2024 14:15	11601	CEAL_T1	1	0	-1	0.3	0	-0.3	0	0	1	1	0	1200	1200	0
10/28/2024 14:15	11603	CEAL_T1	1	1	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
10/28/2024 14:16	63804	HEMP_T1	1	1	0	6.2	5.8	-0.4	0	0	0	0	0	0	0	0
10/28/2024 14:16	63801	HEMP_T1	3	5	2	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
10/28/2024 14:16	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 14:16	63803	HEMP_T1	4	7	3	0.3	0.3	0	0.16	0.14	0	0	0	0	0	0
10/28/2024 14:17	59301	MCAL_T1	8	36	28	0.74	0.33	-0.41	-1.4	-1.38	1	1	0	600	600	0
10/28/2024 14:17	60801	BUCK_T1	2	12	10	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
10/28/2024 14:17	60803	BUCK_T1	7	14	7	0.14	0.24	0.1	-0.48	-0.49	1	1	0	600	600	0
10/28/2024 14:17	59302	MCAL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/28/2024 14:19	59302	MCAL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/28/2024 14:19	59301	MCAL_T1	8	36	28	0.74	0.33	-0.41	0	0	0	0	0	0	0	0
10/28/2024 14:20	59302	MCAL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/28/2024 14:20	64802	MONE_T2	48	113	65	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
10/28/2024 14:20	24602	VARD_T2	2	2	0	0.95	1.05	0.1	0	0	0	0	0	0	0	0
10/28/2024 14:20	59301	MCAL_T1	8	36	28	0.74	0.33	-0.41	-2.8	-2.76	2	2	0	1200	1200	0
10/28/2024 14:20	24603	VARD_T2	9	11	2	0.71	0.68	-0.03	0	0	0	0	0	0	0	0
10/28/2024 14:20	64801	MONE_T2	3	24	21	0.3	0.14	-0.16	0.26	0.25	0	0	0	0	0	0
10/28/2024 14:24	60201	ATGL_T2	8	16	8	0.21	0.16	-0.05	0.02	0.05	0	0	0	0	0	0
10/28/2024 14:24	67402	WAKE_T2	1	4	3	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
10/28/2024 14:24	67401	WAKE_T2	3	15	12	0.3	0.26	-0.04	-1.1	-1.08	0	0	0	0	0	0
10/28/2024 14:25	67401	WAKE_T2	3	15	12	0.3	0.26	-0.04	-1.1	-1.08	0	0	0	0	0	0
10/28/2024 14:25	67402	WAKE_T2	1	4	3	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
10/28/2024 14:26	14802	TREI_T2	5	4	-1	0.36	0.4	0.04	0.38	0.31	0	0	0	0	0	0
10/28/2024 14:26	14801	TREI_T2	6	9	3	0.43	0.29	-0.14	0	0	0	0	0	0	0	0
10/28/2024 14:28	21206	ECAR_T2	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
10/28/2024 14:28	21204	ECAR_T2	1	1	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
10/28/2024 14:33	43103	SMIL_T2	20	21	1	0.46	0.45	-0.01	0	0	0	0	0	0	0	0
10/28/2024 14:33	43104	SMIL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/28/2024 14:33	43102	SMIL_T2	6	6	0	0.63	0.8	0.17	-0.83	-0.84	1	1	0	600	600	0
10/28/2024 14:33	43101	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/28/2024 14:41	10805	CHIH_T2	1	1	0	8.8	8.5	-0.3	-0.7	-0.86	1	1	0	600	600	0
10/28/2024 14:41	60201	ATGL_T2	2	31	29	0.3	0.14	-0.16	0.05	-0.02	0	0	0	0	0	0
10/28/2024 14:41	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
10/28/2024 14:41	46504	LOHA_T1	2	3	1	0.8	0.9	0.1	0	0	0	0	0	0	0	0
10/28/2024 14:41	46506	LOHA_T1	3	3	0	5.9	6.4	0.5	0	0	0	0	0	0	0	0
10/28/2024 14:42	10805	CHIH_T2	1	1	0	8.8	8.5	-0.3	-0.7	-0.86	1	1	0	600	600	0
10/28/2024 14:43	21206	ECAR_T2	1	1	0	7.6	7.9	0.3	0.2	0.15	0	0	0	0	0	0
10/28/2024 14:43	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 14:44	10805	CHIH_T2	1	1	0	8.8	8.5	-0.3	-0.7	-0.86	1	1	0	600	600	0
10/28/2024 14:48	43102	SMIL_T2	6	6	0	0.8	0.72	-0.08	0	0	0	0	0	0	0	0
10/28/2024 14:48	43103	SMIL_T2	21	19	-2	0.45	0.41	-0.04	-0.9	-0.92	0	0	0	0	0	0
10/28/2024 14:48	43104	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/28/2024 14:53	66502	SMAN_T2	9	9	0	0.46	0.48	0.02	0.07	0.06	0	0	0	0	0	0
10/28/2024 14:53	66504	SMAN_T2	2	1	-1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
10/28/2024 14:53	66501	SMAN_T2	2	2	0	1.05	0.85	-0.2	0	0	0	0	0	0	0	0
10/28/2024 14:54	66502	SMAN_T2	9	9	0	0.46	0.48	0.02	0	0	0	0	0	0	0	0
10/28/2024 14:54	66505	SMAN_T2	0	0	0	0	0	0	0.22	0.41	1	1	0	900	900	0
10/28/2024 14:54	66504	SMAN_T2	2	1	-1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
10/28/2024 14:54	66501	SMAN_T2	2	2	0	1.05	0.85	-0.2	0	0	0	0	0	0	0	0
10/28/2024 14:57	66502	SMAN_T2	9	9	0	0.46	0.48	0.02	0.07	0.06	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/28/2024 14:57	66501	SMAN_T2	2	2	0	1.05	0.85	-0.2	0	0	0	0	0	0	0	0
10/28/2024 14:57	67503	WEWI_T2	3	3	0	3.2	3.3	0.1	-0.31	-0.29	0	0	0	0	0	0
10/28/2024 14:57	67502	WEWI_T2	11	10	-1	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
10/28/2024 14:57	66505	SMAN_T2	0	0	0	0	0	0	0.22	0.41	1	1	0	900	900	0
10/28/2024 14:57	66504	SMAN_T2	2	1	-1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
10/28/2024 15:09	16301	ALPA_T1	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
10/28/2024 15:17	46801	HEPB_T2	2	2	0	1.15	0.65	-0.5	0.52	0.5	0	0	0	0	0	0
10/28/2024 15:17	16301	ALPA_T1	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
10/28/2024 15:17	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/28/2024 15:23	46501	LOHA_T1	0	0	0	0	0	0	-0.11	-0.05	1	1	0	1200	1200	0
10/28/2024 15:23	46504	LOHA_T1	12	33	21	0.34	0.26	-0.08	0	0	0	0	0	0	0	0
10/28/2024 15:23	46506	LOHA_T1	3	3	0	6.3	6.13	-0.17	0	0	0	0	0	0	0	0
10/28/2024 15:27	28701	HAML_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/28/2024 15:27	28703	HAML_T2	3	3	0	0.47	0.53	0.06	0	0	0	0	0	0	0	0
10/28/2024 15:27	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/28/2024 15:28	67401	WAKE_T2	12	6	-6	0.25	0.35	0.1	-1.14	-1.14	0	0	0	0	0	0
10/28/2024 15:38	43801	SWIL_T1	2	2	0	2.8	3.2	0.4	0	0	0	0	0	0	0	0
10/28/2024 15:38	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 15:39	67502	WEWI_T2	4	9	5	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
10/28/2024 15:39	60102	COCA_T1	0	0	0	0	0	0	0.29	0.73	3	2	-1	2100	1200	-900
10/28/2024 15:39	67503	WEWI_T2	3	3	0	3.13	3.1	-0.03	-0.27	-0.27	0	0	0	0	0	0
10/28/2024 15:40	67502	WEWI_T2	4	9	5	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
10/28/2024 15:40	66501	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/28/2024 15:40	67503	WEWI_T2	3	3	0	3.13	3.1	-0.03	-0.27	-0.27	0	0	0	0	0	0
10/28/2024 15:40	66502	SMAN_T2	4	4	0	0.28	0.38	0.1	0	0	0	0	0	0	0	0
10/28/2024 15:40	66503	SMAN_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
10/28/2024 15:43	60201	ATGL_T2	7	64	57	0.16	0.19	0.03	-0.16	-0.16	0	0	0	0	0	0
10/28/2024 15:43	42701	AUGU_T1	1	1	0	1.3	1.3	0	0	0	2	2	0	1800	1800	0
10/28/2024 15:47	20802	LOPO_T1	1	1	0	0.1	0.2	0.1	-0.58	-0.58	1	1	0	600	600	0
10/28/2024 15:55	67503	WEWI_T2	3	1	-2	3.07	9	5.93	-0.27	-0.27	0	0	0	0	0	0
10/28/2024 15:55	67502	WEWI_T2	9	3	-6	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
10/28/2024 15:56	10602	BLGL_T2	1	2	1	0.4	0.45	0.05	-0.08	-0.07	0	0	0	0	0	0
10/28/2024 15:58	20603	GRWO_T2	3	5	2	0.6	0.54	-0.06	0.36	0.35	0	0	0	0	0	0
10/28/2024 15:58	55002	NEWP_T1	7	6	-1	0.79	0.78	-0.01	0	0	0	0	0	0	0	0
10/28/2024 15:58	55001	NEWP_T1	1	1	0	0.5	0.3	-0.2	-0.32	-0.37	0	0	0	0	0	0
10/28/2024 15:59	23401	HONE_T2	0	0	0	0	0	0	0.06	-0.02	0	0	0	0	0	0
10/28/2024 15:59	20603	GRWO_T2	3	5	2	0.6	0.54	-0.06	0.36	0.35	0	0	0	0	0	0
10/28/2024 16:00	42701	AUGU_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
10/28/2024 16:01	24102	EHAZ_T1	1	5	4	1	0.5	-0.5	0.67	0.65	0	0	0	0	0	0
10/28/2024 16:01	24105	EHAZ_T1	4	4	0	6.45	6.43	-0.02	0	0	0	0	0	0	0	0
10/28/2024 16:01	20603	GRWO_T2	5	4	-1	0.44	0.65	0.21	0.36	0.35	0	0	0	0	0	0
10/28/2024 16:02	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 16:03	40902	JESH_T1	0	0	0	0	0	0	-0.41	-0.7	0	0	0	0	0	0
10/28/2024 16:03	40901	JESH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/28/2024 16:04	13302	ORVI_T2	0	0	0	0	0	0	1.33	1.4	0	0	0	0	0	0
10/28/2024 16:04	13303	ORVI_T1	0	0	0	0	0	0	0.85	0.85	0	0	0	0	0	0
10/28/2024 16:05	43202	MVIL_T2	1	1	0	0.6	0.6	0	-0.68	-0.68	0	0	0	0	0	0
10/28/2024 16:06	13303	ORVI_T1	0	0	0	0	0	0	0.85	0.8	0	0	0	0	0	0
10/28/2024 16:09	44301	BEAV_T2	0	0	0	0	0	0	-0.33	-0.06	1	1	0	600	600	0
10/28/2024 16:10	13502	MCMI_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
10/28/2024 16:10	13501	MCMI_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
10/28/2024 16:11	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/28/2024 16:11	44301	BEAV_T2	0	0	0	0	0	0	-0.33	-0.06	1	1	0	600	600	0
10/28/2024 16:15	40902	JESH_T1	0	0	0	0	0	0	-0.7	-0.67	0	0	0	0	0	0
10/28/2024 16:15	21901	HUMB_T1	0	0	0	0	0	0	-2.33	-1.01	0	0	0	0	0	0
10/28/2024 16:16	46101	MACI_T2	0	0	0	0	0	0	-0.64	-0.61	1	1	0	1200	1200	0
10/28/2024 16:16	40902	JESH_T1	0	0	0	0	0	0	-0.7	-0.67	0	0	0	0	0	0
10/28/2024 16:16	63501	HEID_TBK1-2	34	39	5	0.36	0.41	0.05	-0.41	-0.41	1	1	0	900	900	0
10/28/2024 16:17	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 16:17	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 16:20	44703	MUNC_T2	2	2	0	1.2	1.25	0.05	0	0	0	0	0	0	0	0
10/28/2024 16:20	44702	MUNC_T2	75	116	41	0.23	0.31	0.08	0	0	0	0	0	0	0	0
10/28/2024 16:20	44701	MUNC_T2	5	119	114	0.18	0.23	0.05	0	0	0	0	0	0	0	0
10/28/2024 16:20	54001	SDLE_T1	163	158	-5	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
10/28/2024 16:21	54001	SDLE_T1	163	158	-5	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
10/28/2024 16:22	54001	SDLE_T1	163	158	-5	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
10/28/2024 16:23	54001	SDLE_T1	163	158	-5	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
10/28/2024 16:26	65003	NEFF_T2	5	4	-1	0.34	0.23	-0.11	0	0	0	0	0	0	0	0
10/28/2024 16:26	65001	NEFF_T2	0	0	0	0	0	0	0.54	0.4	0	0	0	0	0	0
10/28/2024 16:26	65004	NEFF_T2	1	0	-1	0.1	0	-0.1	-0.56	-0.56	0	0	0	0	0	0
10/28/2024 16:26	60404	DILL_T2	0	1	1	0	0	0	-0.04	-0.05	1	1	0	1200	1200	0
10/28/2024 16:27	65004	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/28/2024 16:27	60404	DILL_T2	0	1	1	0	0	0	-0.04	-0.05	1	1	0	1200	1200	0
10/28/2024 16:27	65003	NEFF_T2	5	4	-1	0.34	0.23	-0.11	-1.4	-1.45	1	1	0	1200	1200	0
10/28/2024 16:28	23203	HIRU_T2	0	0	0	0	0	0	0.02	0.08	0	0	0	0	0	0
10/28/2024 16:33	23203	HIRU_T2	0	0	0	0	0	0	0.02	0.08	0	0	0	0	0	0
10/28/2024 16:35	59402	RFLD_T2	0	0	0	0	0	0	-0.86	-0.84	1	1	0	450	450	0
10/28/2024 16:37	59402	RFLD_T2	0	0	0	0	0	0	-0.84	-0.86	1	1	0	450	450	0
10/28/2024 16:47	42701	AUGU_T1	1	1	0	0.6	1.1	0.5	0	0	2	2	0	1800	1800	0
10/28/2024 16:54	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 16:54	10101	ALLE_T3	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
10/28/2024 17:09	60404	DILL_T2	1	0	-1	0.7	0	-0.7	-0.36	-0.4	1	1	0	1200	1200	0
10/28/2024 17:11	14802	TREI_T2	0	0	0	0	0	0	0.26	0.39	0	0	0	0	0	0
10/28/2024 17:11	57205	ROSS_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
10/28/2024 17:12	40801	EXCH_T2	0	2	2	0	0.15	0.15	-0.58	-0.52	1	1	0	1200	1200	0
10/28/2024 17:12	57203	ROSS_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
10/28/2024 17:13	24902	WHHA_T1	1	2	1	1.5	0	-1.5	0	0	0	0	0	0	0	0
10/28/2024 17:13	24901	WHHA_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
10/28/2024 17:15	57205	ROSS_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
10/28/2024 17:15	57203	ROSS_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
10/28/2024 17:16	59003	MIFF_T1	0	1	1	0	1	1	0.35	0.73	0	0	0	0	0	0
10/28/2024 17:16	59002	MIFF_T1	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
10/28/2024 18:09	46802	HEPB_T1	1	1	0	1.1	0.9	-0.2	-0.31	-0.27	0	0	0	0	0	0
10/28/2024 19:47	59402	RFLD_T2	0	0	0	0	0	0	-0.88	-0.87	1	1	0	450	450	0
10/28/2024 19:54	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/28/2024 19:55	15203	SFAR_T2	0	0	0	0	0	0	-1.37	-1.4	0	0	0	0	0	0
10/28/2024 19:56	17002	RIRO_T2	0	1	1	0	0.1	0.1	0.31	0.29	0	0	0	0	0	0
10/28/2024 19:57	16102	BING_T2	16	17	1	0.33	0.38	0.05	0.19	0.16	0	0	0	0	0	0
10/28/2024 19:58	15603	NSTR_T2	0	0	0	0	0	0	-0.61	-0.63	0	0	0	0	0	0
10/28/2024 19:58	10903	COOP_T2	0	0	0	0	0	0	-0.4	-0.43	1	1	0	600	600	0
10/28/2024 19:58	13302	ORVI_T2	0	0	0	0	0	0	1.39	1.44	0	0	0	0	0	0
10/28/2024 19:58	10602	BLGL_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/28/2024 19:58	17805	GILB_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
10/28/2024 19:58	16301	ALPA_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
10/28/2024 19:59	16101	BING_T2	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
10/28/2024 19:59	67605	WARW_T1	1	6	5	0.3	0.42	0.12	-1.09	-1.11	0	0	0	0	0	0
10/28/2024 19:59	16102	BING_T2	16	17	1	0.33	0.38	0.05	0	0	0	0	0	0	0	0
10/28/2024 20:00	65604	QVIL_T2	3	3	0	0.33	0.4	0.07	0.27	0.26	0	0	0	0	0	0
10/28/2024 20:00	17805	GILB_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
10/28/2024 20:00	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:00	22405	MORG_T2	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
10/28/2024 20:00	65603	QVIL_T2	77	179	102	0.19	0.2	0.01	0	0	0	0	0	0	0	0
10/28/2024 20:00	65602	QVIL_T2	3	8	5	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/28/2024 20:00	65601	QVIL_T2	140	136	-4	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
10/28/2024 20:00	67502	WEWI_T2	26	99	73	0.13	0.18	0.05	-0.45	-0.46	0	0	0	0	0	0
10/28/2024 20:00	67503	WEWI_T2	8	23	15	1.04	0.53	-0.51	0	0	0	0	0	0	0	0
10/28/2024 20:01	11507	FREE_T2	4	4	0	0.35	0.2	-0.15	2.3	2.43	0	0	0	0	0	0
10/28/2024 20:01	65003	NEFF_T2	4	4	0	0.23	0.43	0.2	0	0	0	0	0	0	0	0
10/28/2024 20:01	46002	BERW_T2	0	0	0	0	0	0	-1.32	-1.26	1	1	0	900	900	0
10/28/2024 20:01	65004	NEFF_T2	0	0	0	0	0	0	-0.56	-0.55	0	0	0	0	0	0
10/28/2024 20:01	46004	BERW_T2	1	2	1	0.9	0	-0.9	0	0	0	0	0	0	0	0
10/28/2024 20:01	13502	MCMI_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
10/28/2024 20:02	60801	BUCK_T1	14	51	37	0.11	0.23	0.12	0	0	0	0	0	0	0	0
10/28/2024 20:02	14704	TREX_T1	1	1	0	1.5	3.9	2.4	0	0	0	0	0	0	0	0
10/28/2024 20:02	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/28/2024 20:02	65603	QVIL_T2	77	179	102	0.19	0.2	0.01	0.04	0.02	0	0	0	0	0	0
10/28/2024 20:02	11604	CEAL_T1	5	5	0	0.28	0	-0.28	0	0	0	0	0	0	0	0
10/28/2024 20:02	14802	TREI_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
10/28/2024 20:02	64302	LINC_T2	0	0	0	0	0	0	0.88	0.93	0	0	0	0	0	0
10/28/2024 20:02	15702	TANN_T2	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
10/28/2024 20:02	65602	QVIL_T2	3	8	5	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/28/2024 20:02	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:02	14705	TREX_T1	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
10/28/2024 20:02	14706	TREX_T1	1	1	0	1.4	0	-1.4	0	0	0	0	0	0	0	0
10/28/2024 20:02	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
10/28/2024 20:02	11301	EMMA_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
10/28/2024 20:02	65604	QVIL_T2	3	3	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
10/28/2024 20:02	65601	QVIL_T2	140	136	-4	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
10/28/2024 20:02	60803	BUCK_T1	10	19	9	0.22	0.28	0.06	-0.52	-0.51	1	1	0	600	600	0
10/28/2024 20:02	11603	CEAL_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
10/28/2024 20:03	63501	HEID_TBK1-2	1	30	29	0.2	0.26	0.06	0.34	0.36	0	0	0	0	0	0
10/28/2024 20:03	13303	ORVI_T1	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
10/28/2024 20:03	10101	ALLE_T3	1	2	1	3.5	6.1	2.6	0	0	0	0	0	0	0	0
10/28/2024 20:03	17802	GILB_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
10/28/2024 20:03	29402	BELT_T1	1	1	0	7	7.8	0.8	0	0	0	0	0	0	0	0
10/28/2024 20:03	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:03	65604	QVIL_T2	3	3	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
10/28/2024 20:03	67503	WEWI_T2	8	23	15	1.04	0.53	-0.51	-0.32	-0.31	0	0	0	0	0	0
10/28/2024 20:03	66505	SMAN_T2	3	3	0	0.93	1.3	0.37	-0.25	-0.32	1	1	0	900	900	0
10/28/2024 20:03	10205	ALLE_T3	0	1	1	0	8.8	8.8	0	0	0	0	0	0	0	0
10/28/2024 20:03	23202	HIRU_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
10/28/2024 20:03	65601	QVIL_T2	140	136	-4	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
10/28/2024 20:03	65603	QVIL_T2	77	179	102	0.19	0.2	0.01	0.04	0.02	0	0	0	0	0	0
10/28/2024 20:03	14801	TREI_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
10/28/2024 20:03	67605	WARW_T1	3	11	8	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
10/28/2024 20:03	10805	CHHI_T2	1	1	0	8.4	8.5	0.1	-1.36	-1.3	1	1	0	600	600	0
10/28/2024 20:03	67502	WEWI_T2	26	99	73	0.13	0.18	0.05	0	0	0	0	0	0	0	0
10/28/2024 20:03	67603	WARW_T1	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
10/28/2024 20:03	65602	QVIL_T2	3	8	5	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/28/2024 20:03	29401	BELT_T1	0	5	5	0	0.12	0.12	0	0	1	1	0	900	900	0
10/28/2024 20:04	24902	WHHA_T1	3	0	-3	0.3	0	-0.3	0.76	0.73	0	0	0	0	0	0
10/28/2024 20:04	66901	SHIL_T2	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
10/28/2024 20:04	61701	ELIZ_T1	1	1	0	5.6	6	0.4	0.25	0.26	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/28/2024 20:04	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:04	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/28/2024 20:04	11603	CEAL_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
10/28/2024 20:04	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
10/28/2024 20:04	15203	SFAR_T2	0	0	0	0	0	0	-1.37	-1.4	0	0	0	0	0	0
10/28/2024 20:04	11604	CEAL_T1	5	5	0	0.28	0	-0.28	0	0	0	0	0	0	0	0
10/28/2024 20:04	66505	SMAN_T2	3	3	0	0.93	1.3	0.37	0	0	0	0	0	0	0	0
10/28/2024 20:04	45901	AUBU_T1	0	0	0	0	0	0	1.44	1.45	0	0	0	0	0	0
10/28/2024 20:05	12807	MICK_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/28/2024 20:05	14801	TREI_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
10/28/2024 20:05	20403	ASHF_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
10/28/2024 20:05	10805	CHHI_T2	1	1	0	8.4	8.5	0.1	-1.36	-1.3	1	1	0	600	600	0
10/28/2024 20:05	65604	QVIL_T2	3	3	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
10/28/2024 20:05	65502	MOJO_T2	8	107	99	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/28/2024 20:05	20401	ASHF_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/28/2024 20:05	14204	EALL_T2	0	0	0	0	0	0	0.15	0.08	0	0	0	0	0	0
10/28/2024 20:05	65603	QVIL_T2	77	179	102	0.19	0.2	0.01	0	0	0	0	0	0	0	0
10/28/2024 20:05	12803	MICK_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
10/28/2024 20:05	67401	WAKE_T2	6	71	65	0.1	0.21	0.11	-1.2	-1.22	0	0	0	0	0	0
10/28/2024 20:05	65602	QVIL_T2	3	8	5	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/28/2024 20:05	23201	HIRU_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
10/28/2024 20:05	65601	QVIL_T2	140	136	-4	0.39	0.38	-0.01	-1.3	-1.26	1	1	0	900	900	0
10/28/2024 20:05	65503	MOJO_T2	2	3	1	0.1	0.1	0	-0.43	-0.42	0	0	0	0	0	0
10/28/2024 20:05	12801	MICK_T1	0	0	0	0	0	0	-0.31	-0.34	1	1	0	600	600	0
10/28/2024 20:05	67103	SPRI_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
10/28/2024 20:06	20603	GRWO_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
10/28/2024 20:06	42701	AUGU_T1	1	1	0	0.6	0.7	0.1	0	0	2	2	0	1800	1800	0
10/28/2024 20:06	11205	ELHE_T1	0	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0
10/28/2024 20:06	66902	SHIL_T2	0	0	0	0	0	0	-2.06	-2.04	0	0	0	0	0	0
10/28/2024 20:06	65206	PRIN_T4	1	60	59	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/28/2024 20:06	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:06	11203	ELHE_T1	0	0	0	0	0	0	0.86	0.81	0	0	0	0	0	0
10/28/2024 20:06	64801	MONE_T2	6	40	34	0.17	0.21	0.04	0.27	0.25	0	0	0	0	0	0
10/28/2024 20:06	46001	BERW_T1	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
10/28/2024 20:06	65207	PRIN_T4	29	191	162	0.2	0.2	0	0	0	0	0	0	0	0	0
10/28/2024 20:06	67401	WAKE_T2	6	71	65	0.1	0.21	0.11	-1.22	-1.21	0	0	0	0	0	0
10/28/2024 20:06	66505	SMAN_T2	3	3	0	0.93	1.3	0.37	-0.32	-0.34	1	1	0	900	900	0
10/28/2024 20:06	47401	PENS_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
10/28/2024 20:06	65201	PRIN_T4	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 20:06	14203	EALL_T1	0	0	0	0	0	0	-0.58	-0.56	1	1	0	1200	1200	0
10/28/2024 20:06	23401	HONE_T2	1	0	-1	0.1	0	-0.1	0	-0.03	0	0	0	0	0	0
10/28/2024 20:06	63501	HEID_TBK1-2	1	30	29	0.2	0.26	0.06	0.36	0.36	0	0	0	0	0	0
10/28/2024 20:06	64802	MONE_T2	115	176	61	0.16	0.17	0.01	0	0	0	0	0	0	0	0
10/28/2024 20:06	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
10/28/2024 20:06	60101	COCA_T1	0	0	0	0	0	0	0.24	0.15	0	0	0	0	0	0
10/28/2024 20:06	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	2	2	0	1200	1200	0
10/28/2024 20:07	63501	HEID_TBK1-2	1	30	29	0.2	0.26	0.06	0.36	0.36	0	0	0	0	0	0
10/28/2024 20:07	40802	EXCH_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
10/28/2024 20:07	65003	NEFF_T2	4	4	0	0.23	0.43	0.2	0	0	0	0	0	0	0	0
10/28/2024 20:07	64204	KINZ_T1	3	4	1	0.33	0.33	0	0	0	0	0	0	0	0	0
10/28/2024 20:07	64201	KINZ_T1	5	4	-1	0.18	0.25	0.07	0.78	0.77	0	0	0	0	0	0
10/28/2024 20:07	65001	NEFF_T2	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
10/28/2024 20:07	60803	BUCK_T1	10	19	9	0.22	0.28	0.06	0	0	0	0	0	0	0	0
10/28/2024 20:07	24102	EHAZ_T1	3	4	1	0.73	0.6	-0.13	0.76	0.76	0	0	0	0	0	0
10/28/2024 20:07	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 20:07	54201	PENN_T1	10	10	0	0.51	0.8	0.29	0	0	0	0	0	0	0	0
10/28/2024 20:07	54203	PENN_T1	18	18	0	1.03	1.17	0.14	0	0	0	0	0	0	0	0
10/28/2024 20:07	24105	EHAZ_T1	4	4	0	6.28	5.88	-0.4	0	0	0	0	0	0	0	0
10/28/2024 20:07	44802	EDAN_T2	1	0	-1	1.5	0	-1.5	-1.02	-1.06	0	0	0	0	0	0
10/28/2024 20:07	61701	ELIZ_T1	1	1	0	5.6	6	0.4	0	0	0	0	0	0	0	0
10/28/2024 20:07	67502	WEWI_T2	26	99	73	0.13	0.18	0.05	0	0	0	0	0	0	0	0
10/28/2024 20:07	61703	ELIZ_T1	0	0	0	0	0	0	-5.16	-5.32	4	4	0	4200	4200	0
10/28/2024 20:07	59201	THOM_T1	21	25	4	0.43	0.59	0.16	0	0	0	0	0	0	0	0
10/28/2024 20:07	24101	EHAZ_T1	12	5	-7	0.88	0	-0.88	0	0	0	0	0	0	0	0
10/28/2024 20:07	64602	LEOL_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
10/28/2024 20:07	24603	VARD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:07	59202	THOM_T1	274	337	63	0.26	0.36	0.1	0	0	0	0	0	0	0	0
10/28/2024 20:07	65207	PRIN_T4	29	191	162	0.2	0.2	0	0	0	1	1	0	1200	1200	0
10/28/2024 20:07	24602	VARD_T2	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
10/28/2024 20:07	65201	PRIN_T4	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 20:07	60801	BUCK_T1	14	51	37	0.11	0.23	0.12	-0.24	-0.28	0	0	0	0	0	0
10/28/2024 20:07	16301	ALPA_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
10/28/2024 20:07	66505	SMAN_T2	3	3	0	0.93	1.3	0.37	0	0	0	0	0	0	0	0
10/28/2024 20:07	67503	WEWI_T2	8	23	15	1.04	0.53	-0.51	-0.31	-0.31	0	0	0	0	0	0
10/28/2024 20:07	60101	COCA_T1	0	0	0	0	0	0	0.24	0.15	0	0	0	0	0	0
10/28/2024 20:07	65206	PRIN_T4	1	60	59	0.1	0.14	0.04	0	0	0	0	0	0	0	0
10/28/2024 20:07	24202	PROV_T4	36	80	44	0.27	0.23	-0.04	0	0	1	1	0	1200	1200	0
10/28/2024 20:07	60201	ATGL_T2	80	354	274	0.32	0.49	0.17	-0.36	0.23	0	0	0	0	0	0
10/28/2024 20:07	64902	MILL_T2	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
10/28/2024 20:07	66504	SMAN_T2	0	0	0	0	0	0	-1.12	-1.18	0	0	0	0	0	0
10/28/2024 20:08	54001	SDLE_T1	7	9	2	1	1.08	0.08	0	0	0	0	0	0	0	0
10/28/2024 20:08	20401	ASHF_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/28/2024 20:08	48902	FOSP_T2	4	6	2	0.15	0.15	0	0	0	0	0	0	0	0	0
10/28/2024 20:08	57401	SPAN_T1	2	2	0	0.75	1.15	0.4	0.25	0.25	0	0	0	0	0	0
10/28/2024 20:08	44802	EDAN_T2	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
10/28/2024 20:08	47203	FAXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:08	20403	ASHF_T2	0	0	0	0	0	0	0.11	0.07	0	0	0	0	0	0
10/28/2024 20:08	10801	CHHI_T1	0	0	0	0	0	0	-1.62	-1.62	2	2	0	1500	1500	0
10/28/2024 20:08	24902	WHHA_T1	3	0	-3	0.3	0	-0.3	0.73	0.73	0	0	0	0	0	0
10/28/2024 20:08	65205	PRIN_T1	18	56	38	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
10/28/2024 20:08	48901	FOSP_T2	1	1	0	0.1	0.1	0	0.22	0.22	0	0	0	0	0	0
10/28/2024 20:08	54601	SUMM_T2	2	8	6	0.25	0.21	-0.04	-3.04	-3.08	2	2	0	2100	2100	0
10/28/2024 20:08	60201	ATGL_T2	80	354	274	0.32	0.49	0.17	-0.36	0.23	0	0	0	0	0	0
10/28/2024 20:08	21206	ECAR_T2	1	1	0	7.5	8	0.5	-0.02	-0.05	0	0	0	0	0	0
10/28/2024 20:08	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:08	65202	PRIN_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
10/28/2024 20:08	64305	LINC_T1	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
10/28/2024 20:08	66901	SHIL_T2	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
10/28/2024 20:08	44801	EDAN_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
10/28/2024 20:09	48901	FOSP_T2	1	1	0	0.1	0.1	0	0.22	0.22	0	0	0	0	0	0
10/28/2024 20:09	65503	MOJO_T2	2	3	1	0.1	0.1	0	-0.42	-0.41	0	0	0	0	0	0
10/28/2024 20:09	54601	SUMM_T2	2	8	6	0.25	0.21	-0.04	-3.04	-3.08	2	2	0	2100	2100	0
10/28/2024 20:09	43103	SMIL_T2	11	9	-2	0.36	0.4	0.04	0	0	0	0	0	0	0	0
10/28/2024 20:09	59302	MCAL_T1	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
10/28/2024 20:09	48302	ORWI_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
10/28/2024 20:09	22901	HARW_T1	0	0	0	0	0	0	-0.58	-0.46	1	1	0	1200	1200	0
10/28/2024 20:09	14802	TREI_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
10/28/2024 20:09	44502	HAMI_T2	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
10/28/2024 20:09	24702	FLND_T2	0	0	0	0	0	0	0.06	0.13	1	1	0	1200	1200	0
10/28/2024 20:09	45501	DERR_T2	0	0	0	0	0	0	0.66	0.71	2	2	0	1800	1800	0
10/28/2024 20:09	65502	MOJO_T2	8	107	99	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/28/2024 20:09	66505	SMAN_T2	3	3	0	0.93	1.3	0.37	-0.32	-0.34	1	1	0	900	900	0
10/28/2024 20:09	63803	HEMP_T1	0	0	0	0	0	0	1.11	1.1	0	0	0	0	0	0
10/28/2024 20:09	20802	LOPO_T1	0	0	0	0	0	0	-0.58	-0.56	1	1	0	600	600	0
10/28/2024 20:09	66502	SMAN_T2	0	0	0	0	0	0	-0.04	-0.11	0	0	0	0	0	0
10/28/2024 20:09	59301	MCAL_T1	4	6	2	0.23	0.15	-0.08	-1.27	-1.33	0	0	0	0	0	0
10/28/2024 20:09	67503	WEWI_T2	8	23	15	1.04	0.53	-0.51	0	0	0	0	0	0	0	0
10/28/2024 20:09	44505	HAMI_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
10/28/2024 20:09	60801	BUCK_T1	14	51	37	0.11	0.23	0.12	-0.24	-0.28	0	0	0	0	0	0
10/28/2024 20:09	63804	HEMP_T1	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
10/28/2024 20:09	61701	ELIZ_T1	1	1	0	5.6	6	0.4	0	0	0	0	0	0	0	0
10/28/2024 20:09	60803	BUCK_T1	10	19	9	0.22	0.28	0.06	0	0	0	0	0	0	0	0
10/28/2024 20:09	61703	ELIZ_T1	0	0	0	0	0	0	-2.58	-2.66	2	2	0	2100	2100	0
10/28/2024 20:09	43105	SMIL_T2	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
10/28/2024 20:09	44802	EDAN_T2	1	0	-1	1.5	0	-1.5	-1.02	-1.06	0	0	0	0	0	0
10/28/2024 20:09	67502	WEWI_T2	26	99	73	0.13	0.18	0.05	-0.46	-0.36	0	0	0	0	0	0
10/28/2024 20:09	48902	FOSP_T2	4	6	2	0.15	0.15	0	0	0	0	0	0	0	0	0
10/28/2024 20:09	22904	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:09	43102	SMIL_T2	6	6	0	0.43	0.67	0.24	-0.94	-0.95	1	1	0	600	600	0
10/28/2024 20:10	52004	LING_T2	2	2	0	6.4	6.55	0.15	0.11	0.11	0	0	0	0	0	0
10/28/2024 20:10	52006	LING_T2	2	2	0	1	1.25	0.25	0	0	0	0	0	0	0	0
10/28/2024 20:10	43102	SMIL_T2	6	6	0	0.43	0.67	0.24	0	0	0	0	0	0	0	0
10/28/2024 20:10	25402	LAHA_T2	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
10/28/2024 20:10	43103	SMIL_T2	11	9	-2	0.36	0.4	0.04	0	0	0	0	0	0	0	0
10/28/2024 20:10	15204	SFAR_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
10/28/2024 20:10	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
10/28/2024 20:10	54701	NEBL_T1	1	3	2	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
10/28/2024 20:10	14802	TREI_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
10/28/2024 20:10	67502	WEWI_T2	26	99	73	0.13	0.18	0.05	-0.46	-0.36	0	0	0	0	0	0
10/28/2024 20:10	67605	WARW_T1	3	11	8	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
10/28/2024 20:10	43105	SMIL_T2	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
10/28/2024 20:10	57201	ROSS_T1	15	23	8	0.19	0.27	0.08	-0.7	-0.67	0	0	0	0	0	0
10/28/2024 20:10	50501	MECH_T1	4	4	0	0.98	1.43	0.45	-0.32	-0.06	0	0	0	0	0	0
10/28/2024 20:10	46004	BERW_T2	1	2	1	0.9	0	-0.9	-0.42	-0.46	0	0	0	0	0	0
10/28/2024 20:10	52002	LING_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
10/28/2024 20:10	65502	MOJO_T2	8	107	99	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/28/2024 20:10	48901	FOSP_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/28/2024 20:10	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:10	40801	EXCH_T2	0	0	0	0	0	0	-0.55	-0.56	1	1	0	1200	1200	0
10/28/2024 20:10	48902	FOSP_T2	4	6	2	0.15	0.15	0	-0.08	-0.06	0	0	0	0	0	0
10/28/2024 20:10	50502	MECH_T1	1	1	0	2.5	2.5	0	0	0	0	0	0	0	0	0
10/28/2024 20:10	65503	MOJO_T2	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/28/2024 20:10	67503	WEWI_T2	8	23	15	1.04	0.53	-0.51	-0.31	-0.31	0	0	0	0	0	0
10/28/2024 20:10	60102	COCA_T1	0	0	0	0	0	0	0.42	0.72	2	2	0	1200	1200	0
10/28/2024 20:11	67605	WARW_T1	3	11	8	0.43	0.38	-0.05	-1.11	-1.14	0	0	0	0	0	0
10/28/2024 20:11	66504	SMAN_T2	0	0	0	0	0	0	-0.56	-0.59	0	0	0	0	0	0
10/28/2024 20:11	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
10/28/2024 20:11	50501	MECH_T1	4	4	0	0.98	1.43	0.45	0	0	0	0	0	0	0	0
10/28/2024 20:11	63501	HEID_TBK1-2	1	30	29	0.2	0.26	0.06	0.36	0.36	0	0	0	0	0	0
10/28/2024 20:11	43105	SMIL_T2	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
10/28/2024 20:11	57201	ROSS_T1	15	23	8	0.19	0.27	0.08	0	0	0	0	0	0	0	0
10/28/2024 20:11	60201	ATGL_T2	80	354	274	0.32	0.49	0.17	-0.36	0.23	0	0	0	0	0	0
10/28/2024 20:11	43103	SMIL_T2	11	9	-2	0.36	0.4	0.04	-1.02	-0.99	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/28/2024 20:11	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:11	13302	ORVI_T2	0	0	0	0	0	0	1.44	1.38	0	0	0	0	0	0
10/28/2024 20:11	60101	COCA_T1	0	0	0	0	0	0	0.24	0.15	0	0	0	0	0	0
10/28/2024 20:11	66505	SMAN_T2	3	3	0	0.93	1.3	0.37	0	0	0	0	0	0	0	0
10/28/2024 20:11	54601	SUMM_T2	2	8	6	0.25	0.21	-0.04	-3.04	-3.08	2	2	0	2100	2100	0
10/28/2024 20:11	57203	ROSS_T1	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
10/28/2024 20:11	23203	HIRU_T2	0	0	0	0	0	0	0.14	-0.07	0	0	0	0	0	0
10/28/2024 20:11	50502	MECH_T1	1	1	0	2.5	2.5	0	0	0	0	0	0	0	0	0
10/28/2024 20:11	44802	EDAN_T2	1	0	-1	1.5	0	-1.5	-1.02	-1.06	0	0	0	0	0	0
10/28/2024 20:11	46801	HEPB_T2	2	2	0	0.35	0.25	-0.1	0.48	0.49	0	0	0	0	0	0
10/28/2024 20:11	43202	MVIL_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
10/28/2024 20:11	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
10/28/2024 20:11	44505	HAMI_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
10/28/2024 20:11	64902	MILL_T2	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
10/28/2024 20:11	50505	MECH_T1	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
10/28/2024 20:11	60801	BUCK_T1	14	51	37	0.11	0.23	0.12	0	0	0	0	0	0	0	0
10/28/2024 20:11	43801	SWIL_T1	13	27	14	0.74	0.45	-0.29	0	0	0	0	0	0	0	0
10/28/2024 20:11	45502	DERR_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
10/28/2024 20:11	13501	MCMI_T1	0	0	0	0	0	0	0.14	0.05	0	0	0	0	0	0
10/28/2024 20:11	60803	BUCK_T1	10	19	9	0.22	0.28	0.06	-0.51	-0.53	1	1	0	600	600	0
10/28/2024 20:11	43102	SMIL_T2	6	6	0	0.43	0.67	0.24	0	0	0	0	0	0	0	0
10/28/2024 20:11	44502	HAMI_T2	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
10/28/2024 20:12	24901	WHHA_T1	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
10/28/2024 20:12	63601	LETO_T1	0	0	0	0	0	0	1.16	1.12	1	1	0	900	900	0
10/28/2024 20:12	13503	MCMI_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
10/28/2024 20:12	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
10/28/2024 20:12	44301	BEAV_T2	0	2	2	0	0.1	0.1	0.07	0.06	2	2	0	1200	1200	0
10/28/2024 20:12	10805	CHHI_T2	1	1	0	8.4	8.5	0.1	-1.3	-1.31	1	1	0	600	600	0
10/28/2024 20:12	60404	DILL_T2	0	0	0	0	0	0	0.84	0.92	0	0	0	0	0	0
10/28/2024 20:12	48901	FOSP_T2	1	1	0	0.1	0.1	0	0.22	0.22	0	0	0	0	0	0
10/28/2024 20:12	46501	LOHA_T1	0	1	1	0	0	0	-0.11	-0.07	1	1	0	1200	1200	0
10/28/2024 20:12	46203	DANV_T2	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
10/28/2024 20:12	59201	THOM_T1	21	25	4	0.43	0.59	0.16	0	0	0	0	0	0	0	0
10/28/2024 20:12	14204	EALL_T2	0	0	0	0	0	0	0.08	0.15	0	0	0	0	0	0
10/28/2024 20:12	46004	BERW_T2	1	2	1	0.9	0	-0.9	-0.42	-0.46	0	0	0	0	0	0
10/28/2024 20:12	21901	HUMB_T1	0	0	0	0	0	0	-0.93	-0.96	0	0	0	0	0	0
10/28/2024 20:12	59202	THOM_T1	274	337	63	0.26	0.36	0.1	0	0	0	0	0	0	0	0
10/28/2024 20:12	63602	LETO_T1	0	27	27	0	0.11	0.11	0	0	0	0	0	0	0	0
10/28/2024 20:12	43105	SMIL_T2	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
10/28/2024 20:12	26002	WDAM_T1	1	4	3	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
10/28/2024 20:12	24902	WHHA_T1	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/28/2024 20:12	48902	FOSP_T2	4	6	2	0.15	0.15	0	0	0	0	0	0	0	0	0
10/28/2024 20:12	63501	HEID_TBK1-2	1	30	29	0.2	0.26	0.06	0.36	0.36	0	0	0	0	0	0
10/28/2024 20:12	46504	LOHA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/28/2024 20:12	15203	SFAR_T2	0	0	0	0	0	0	-1.4	-1.4	0	0	0	0	0	0
10/28/2024 20:12	43103	SMIL_T2	11	9	-2	0.36	0.4	0.04	0	0	0	0	0	0	0	0
10/28/2024 20:12	45501	DERR_T2	0	0	0	0	0	0	0.66	0.71	2	2	0	1800	1800	0
10/28/2024 20:12	60403	DILL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/28/2024 20:12	55002	NEWP_T1	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
10/28/2024 20:12	55001	NEWP_T1	0	1	1	0	0	0	-0.43	-0.43	0	0	0	0	0	0
10/28/2024 20:12	46001	BERW_T1	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
10/28/2024 20:12	43102	SMIL_T2	6	6	0	0.43	0.67	0.24	-0.94	-0.95	1	1	0	600	600	0
10/28/2024 20:12	46506	LOHA_T1	3	3	0	4.93	5.37	0.44	0	0	0	0	0	0	0	0
10/28/2024 20:12	42701	AUGU_T1	1	1	0	0.6	0.7	0.1	0	0	4	4	0	3600	3600	0
10/28/2024 20:12	57402	SPAN_T2	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
10/28/2024 20:12	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
10/28/2024 20:13	43102	SMIL_T2	6	6	0	0.43	0.67	0.24	0	0	0	0	0	0	0	0
10/28/2024 20:13	46801	HEPB_T2	2	2	0	0.35	0.25	-0.1	0.48	0.49	0	0	0	0	0	0
10/28/2024 20:13	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
10/28/2024 20:13	65601	QVIL_T2	140	136	-4	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
10/28/2024 20:13	46004	BERW_T2	1	2	1	0.9	0	-0.9	-0.42	-0.46	0	0	0	0	0	0
10/28/2024 20:13	65602	QVIL_T2	3	8	5	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/28/2024 20:13	65604	QVIL_T2	3	3	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
10/28/2024 20:13	60101	COCA_T1	0	0	0	0	0	0	0.24	0.15	0	0	0	0	0	0
10/28/2024 20:13	61701	ELIZ_T1	1	1	0	5.6	6	0.4	0	0	0	0	0	0	0	0
10/28/2024 20:13	52006	LING_T2	2	2	0	1	1.25	0.25	0	0	0	0	0	0	0	0
10/28/2024 20:13	46203	DANV_T2	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
10/28/2024 20:13	43103	SMIL_T2	11	9	-2	0.36	0.4	0.04	0	0	0	0	0	0	0	0
10/28/2024 20:13	43105	SMIL_T2	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
10/28/2024 20:13	52004	LING_T2	2	2	0	6.4	6.55	0.15	0.11	0.11	0	0	0	0	0	0
10/28/2024 20:13	20603	GRWO_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
10/28/2024 20:13	44301	BEAV_T2	0	2	2	0	0.1	0.1	0.03	0.03	1	1	0	600	600	0
10/28/2024 20:13	67503	WEWI_T2	8	23	15	1.04	0.53	-0.51	-0.31	-0.31	0	0	0	0	0	0
10/28/2024 20:13	55002	NEWP_T1	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
10/28/2024 20:13	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:13	15703	TANN_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
10/28/2024 20:13	42701	AUGU_T1	1	1	0	0.6	0.7	0.1	0	0	2	2	0	1800	1800	0
10/28/2024 20:13	52002	LING_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
10/28/2024 20:13	42301	MOWR_T2	0	0	0	0	0	0	-0.34	-0.31	0	0	0	0	0	0
10/28/2024 20:13	43801	SWIL_T1	13	27	14	0.74	0.45	-0.29	0	0	0	0	0	0	0	0
10/28/2024 20:13	55001	NEWP_T1	0	1	1	0	0	0	-0.43	-0.43	0	0	0	0	0	0
10/28/2024 20:13	59201	THOM_T1	21	25	4	0.43	0.59	0.16	0	0	0	0	0	0	0	0
10/28/2024 20:13	64101	REFR_T1	0	1	1	0	0.4	0.4	-0.01	-0.01	0	0	0	0	0	0
10/28/2024 20:13	16301	ALPA_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
10/28/2024 20:13	59202	THOM_T1	274	337	63	0.26	0.36	0.1	0	0	0	0	0	0	0	0
10/28/2024 20:13	65603	QVIL_T2	77	179	102	0.19	0.2	0.01	0	0	0	0	0	0	0	0
10/28/2024 20:13	61703	ELIZ_T1	0	0	0	0	0	0	-2.58	-2.66	2	2	0	2100	2100	0
10/28/2024 20:13	66505	SMAN_T2	3	3	0	0.93	1.3	0.37	0	0	0	0	0	0	0	0
10/28/2024 20:13	57401	SPAN_T1	2	2	0	0.75	1.15	0.4	0	0	0	0	0	0	0	0
10/28/2024 20:13	67502	WEWI_T2	26	99	73	0.13	0.18	0.05	0	0	0	0	0	0	0	0
10/28/2024 20:13	43104	SMIL_T2	0	0	0	0	0	0	-0.86	-0.87	1	1	0	300	300	0
10/28/2024 20:13	43802	SWIL_T1	0	0	0	0	0	0	-0.25	-0.26	1	1	0	600	600	0
10/28/2024 20:13	57201	ROSS_T1	15	23	8	0.19	0.27	0.08	-0.7	-0.67	0	0	0	0	0	0
10/28/2024 20:13	57403	SPAN_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
10/28/2024 20:13	66502	SMAN_T2	0	0	0	0	0	0	-0.04	-0.11	0	0	0	0	0	0
10/28/2024 20:14	44802	EDAN_T2	1	0	-1	1.5	0	-1.5	-2.03	-2.11	0	0	0	0	0	0
10/28/2024 20:14	59003	MIFF_T1	1	1	0	0.5	0.8	0.3	-0.54	0.37	0	0	0	0	0	0
10/28/2024 20:14	53501	EVIL_T2	0	0	0	0	0	0	-1.7	-1.59	2	2	0	1200	1200	0
10/28/2024 20:14	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:14	66505	SMAN_T2	3	3	0	0.93	1.3	0.37	0	0	0	0	0	0	0	0
10/28/2024 20:14	42701	AUGU_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
10/28/2024 20:14	67501	WEWI_T1	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
10/28/2024 20:14	45702	LIND_T2	1	1	0	1	1.4	0.4	-0.66	-0.68	0	0	0	0	0	0
10/28/2024 20:14	43102	SMIL_T2	6	6	0	0.43	0.67	0.24	0	0	0	0	0	0	0	0
10/28/2024 20:14	57205	ROSS_T1	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
10/28/2024 20:14	57401	SPAN_T1	2	2	0	0.75	1.15	0.4	0.25	0.25	0	0	0	0	0	0
10/28/2024 20:14	66502	SMAN_T2	0	0	0	0	0	0	-0.04	-0.11	0	0	0	0	0	0
10/28/2024 20:14	54001	SDLE_T1	7	9	2	1	1.08	0.08	0	0	0	0	0	0	0	0
10/28/2024 20:14	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:14	43105	SMIL_T2	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
10/28/2024 20:14	57403	SPAN_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
10/28/2024 20:14	64101	REFR_T1	0	1	1	0	0.4	0.4	-0.01	-0.01	0	0	0	0	0	0
10/28/2024 20:14	57201	ROSS_T1	15	23	8	0.19	0.27	0.08	0	0	0	0	0	0	0	0
10/28/2024 20:14	43104	SMIL_T2	0	0	0	0	0	0	-0.86	-0.87	1	1	0	300	300	0
10/28/2024 20:14	52001	LING_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
10/28/2024 20:14	40101	HUNT_T2	2	1	-1	0.65	0	-0.65	-0.73	-0.73	0	0	0	0	0	0
10/28/2024 20:14	43103	SMIL_T2	11	9	-2	0.36	0.4	0.04	0	0	0	0	0	0	0	0
10/28/2024 20:14	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:14	54601	SUMM_T2	2	8	6	0.25	0.21	-0.04	-3.04	-3.08	2	2	0	2100	2100	0
10/28/2024 20:14	59002	MIFF_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/28/2024 20:14	44801	EDAN_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
10/28/2024 20:14	60902	DONG_T2	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
10/28/2024 20:15	20603	GRWO_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
10/28/2024 20:15	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/28/2024 20:15	17804	GILB_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
10/28/2024 20:15	59102	WALK_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
10/28/2024 20:15	59301	MCAL_T1	1	32	31	0.1	0.16	0.06	-1.27	-1.33	0	0	0	0	0	0
10/28/2024 20:15	59101	WALK_T2	0	0	0	0	0	0	2.62	2.4	0	0	0	0	0	0
10/28/2024 20:15	66505	SMAN_T2	3	3	0	1.17	1.37	0.2	0	0	0	0	0	0	0	0
10/28/2024 20:15	52006	LING_T2	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
10/28/2024 20:15	59302	MCAL_T1	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
10/28/2024 20:15	52002	LING_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
10/28/2024 20:15	60801	BUCK_T1	46	62	16	0.18	0.27	0.09	0	0	0	0	0	0	0	0
10/28/2024 20:15	52004	LING_T2	2	2	0	6.45	6.65	0.2	0.11	0.11	0	0	0	0	0	0
10/28/2024 20:15	60803	BUCK_T1	16	20	4	0.26	0.29	0.03	-0.51	-0.53	1	1	0	600	600	0
10/28/2024 20:15	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.22	0	0	0	0	0	0
10/28/2024 20:15	14802	TREI_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
10/28/2024 20:15	10801	CHHI_T1	0	0	0	0	0	0	-1.62	-1.62	2	2	0	1500	1500	0
10/28/2024 20:16	13701	SCHN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:16	64801	MONE_T2	23	49	26	0.2	0.22	0.02	0	0	0	0	0	0	0	0
10/28/2024 20:16	40802	EXCH_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
10/28/2024 20:16	59101	WALK_T2	0	0	0	0	0	0	1.31	1.2	0	0	0	0	0	0
10/28/2024 20:16	64802	MONE_T2	165	80	-85	0.17	0.17	0	0.08	0.2	0	0	0	0	0	0
10/28/2024 20:16	46803	HEPB_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
10/28/2024 20:16	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
10/28/2024 20:16	44902	SCOT_T2	0	0	0	0	0	0	-0.98	-0.94	0	0	0	0	0	0
10/28/2024 20:16	40902	JESH_T1	0	0	0	0	0	0	-0.72	-0.76	0	0	0	0	0	0
10/28/2024 20:16	46101	MACI_T2	1	1	0	0.2	0.2	0	-0.63	-0.61	1	1	0	1200	1200	0
10/28/2024 20:16	20403	ASHF_T2	0	0	0	0	0	0	0.11	0.07	0	0	0	0	0	0
10/28/2024 20:16	45702	LIND_T2	1	1	0	0.9	1.4	0.5	-0.66	-0.68	0	0	0	0	0	0
10/28/2024 20:16	14802	TREI_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
10/28/2024 20:16	54001	SDLE_T1	8	10	2	1.06	1.12	0.06	0	0	0	0	0	0	0	0
10/28/2024 20:16	23901	EFMO_T2	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
10/28/2024 20:16	67401	WAKE_T2	32	87	55	0.15	0.2	0.05	-1.22	-1.21	0	0	0	0	0	0
10/28/2024 20:16	60201	ATGL_T2	292	354	62	0.38	0.49	0.11	-0.36	0.23	0	0	0	0	0	0
10/28/2024 20:16	20401	ASHF_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
10/28/2024 20:16	43102	SMIL_T2	6	7	1	0.48	0.61	0.13	0	0	0	0	0	0	0	0
10/28/2024 20:16	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:16	43104	SMIL_T2	0	0	0	0	0	0	-0.86	-0.87	1	1	0	300	300	0
10/28/2024 20:16	43103	SMIL_T2	9	5	-4	0.4	0.56	0.16	-1.02	-0.99	0	0	0	0	0	0
10/28/2024 20:16	67106	SPRI_T2	0	0	0	0	0	0	-1.35	-1.35	1	1	0	900	900	0
10/28/2024 20:16	13704	SCHN_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
10/28/2024 20:16	13303	ORVI_T1	0	0	0	0	0	0	0.74	0.71	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/28/2024 20:16	46801	HEPB_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/28/2024 20:16	43105	SMIL_T2	1	11	10	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/28/2024 20:16	44502	HAMI_T2	1	1	0	2.8	3.2	0.4	0	0	0	0	0	0	0	0
10/28/2024 20:17	63804	HEMP_T1	1	1	0	5.6	5.4	-0.2	0.73	0.69	0	0	0	0	0	0
10/28/2024 20:17	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:17	58401	MORO_T1	0	0	0	0	0	0	-1.91	-1.9	1	1	0	600	600	0
10/28/2024 20:17	54001	SDLE_T1	8	10	2	1.06	1.12	0.06	0	0	0	0	0	0	0	0
10/28/2024 20:17	13701	SCHN_T2	0	0	0	0	0	0	-0.2	-0.18	1	1	0	600	600	0
10/28/2024 20:17	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:17	61701	ELIZ_T1	1	1	0	5.7	6	0.3	0	0	0	0	0	0	0	0
10/28/2024 20:17	42701	AUGU_T1	1	1	0	0.7	0.9	0.2	0	0	2	2	0	1800	1800	0
10/28/2024 20:17	59301	MCAL_T1	1	32	31	0.1	0.16	0.06	-2.54	-2.66	0	0	0	0	0	0
10/28/2024 20:17	59302	MCAL_T2	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
10/28/2024 20:17	63801	HEMP_T1	0	0	0	0	0	0	-0.15	-0.24	0	0	0	0	0	0
10/28/2024 20:17	67605	WARW_T1	6	17	11	0.42	0.38	-0.04	-1.11	-1.14	0	0	0	0	0	0
10/28/2024 20:17	63501	HEID_TBK1-2	15	38	23	0.13	0.26	0.13	0.36	0.36	0	0	0	0	0	0
10/28/2024 20:17	40902	JESH_T1	0	0	0	0	0	0	-0.72	-0.76	0	0	0	0	0	0
10/28/2024 20:17	43105	SMIL_T2	1	11	10	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/28/2024 20:17	66502	SMAN_T2	0	0	0	0	0	0	-0.04	-0.11	0	0	0	0	0	0
10/28/2024 20:17	14802	TREI_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
10/28/2024 20:17	64303	LINC_T1	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
10/28/2024 20:17	66505	SMAN_T2	3	3	0	1.17	1.37	0.2	0	0	0	0	0	0	0	0
10/28/2024 20:17	11301	EMMA_T1	0	0	0	0	0	0	-0.86	-0.9	0	0	0	0	0	0
10/28/2024 20:17	57104	SPHI_T2	1	2	1	1.2	1	-0.2	0.41	0.4	0	0	0	0	0	0
10/28/2024 20:17	43102	SMIL_T2	6	7	1	0.48	0.61	0.13	-0.94	-0.95	1	1	0	600	600	0
10/28/2024 20:17	43103	SMIL_T2	9	5	-4	0.4	0.56	0.16	0	0	0	0	0	0	0	0
10/28/2024 20:17	43104	SMIL_T2	0	0	0	0	0	0	-0.86	-0.87	1	1	0	300	300	0
10/28/2024 20:17	57106	SPHI_T2	3	3	0	1.13	1.13	0	0	0	0	0	0	0	0	0
10/28/2024 20:17	58402	MORO_T1	0	0	0	0	0	0	0.23	0.19	1	1	0	900	900	0
10/28/2024 20:17	57101	SPHI_T2	5	5	0	1.1	1.02	-0.08	0	0	0	0	0	0	0	0
10/28/2024 20:17	54701	NEBL_T1	1	4	3	0.7	0.38	-0.32	0	0	0	0	0	0	0	0
10/28/2024 20:18	40801	EXCH_T2	0	0	0	0	0	0	-0.55	-0.56	1	1	0	1200	1200	0
10/28/2024 20:18	65604	QVIL_T2	3	3	0	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
10/28/2024 20:18	53501	EVIL_T2	0	0	0	0	0	0	-1.7	-1.59	2	2	0	1200	1200	0
10/28/2024 20:18	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:18	13503	MCMI_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
10/28/2024 20:18	60803	BUCK_T1	16	20	4	0.26	0.29	0.03	0	0	0	0	0	0	0	0
10/28/2024 20:18	59202	THOM_T1	292	382	90	0.3	0.43	0.13	0	0	0	0	0	0	0	0
10/28/2024 20:18	44802	EDAN_T2	0	0	0	0	0	0	-1.02	-1.06	0	0	0	0	0	0
10/28/2024 20:18	65603	QVIL_T2	179	38	-141	0.2	0.17	-0.03	0.02	0.07	0	0	0	0	0	0
10/28/2024 20:18	43102	SMIL_T2	6	7	1	0.48	0.61	0.13	0	0	0	0	0	0	0	0
10/28/2024 20:18	66505	SMAN_T2	3	3	0	1.17	1.37	0.2	0	0	0	0	0	0	0	0
10/28/2024 20:18	43105	SMIL_T2	1	11	10	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/28/2024 20:18	46001	BERW_T1	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
10/28/2024 20:18	43103	SMIL_T2	9	5	-4	0.4	0.56	0.16	-1.02	-0.99	0	0	0	0	0	0
10/28/2024 20:18	65601	QVIL_T2	136	62	-74	0.38	0.18	-0.2	0	0	0	0	0	0	0	0
10/28/2024 20:18	65602	QVIL_T2	5	10	5	0.28	0.21	-0.07	0	0	0	0	0	0	0	0
10/28/2024 20:18	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:18	59402	RFLD_T2	0	0	0	0	0	0	-0.88	-0.89	1	1	0	450	450	0
10/28/2024 20:18	65003	NEFF_T2	4	10	6	0.43	0.24	-0.19	-1.57	-1.56	1	1	0	1200	1200	0
10/28/2024 20:18	60801	BUCK_T1	46	62	16	0.18	0.27	0.09	0	0	0	0	0	0	0	0
10/28/2024 20:18	54001	SDLE_T1	8	10	2	1.06	1.12	0.06	0	0	0	0	0	0	0	0
10/28/2024 20:18	59201	THOM_T1	21	32	11	0.58	0.6	0.02	0	0	0	0	0	0	0	0
10/28/2024 20:18	66502	SMAN_T2	0	0	0	0	0	0	-0.04	-0.11	0	0	0	0	0	0
10/28/2024 20:19	52004	LING_T2	2	2	0	6.45	6.65	0.2	0.11	0.11	0	0	0	0	0	0
10/28/2024 20:19	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
10/28/2024 20:19	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:19	54601	SUMM_T2	6	9	3	0.23	0.23	0	-3.04	-3.08	2	2	0	2100	2100	0
10/28/2024 20:19	53501	EVIL_T2	0	0	0	0	0	0	-0.85	-0.8	1	1	0	600	600	0
10/28/2024 20:19	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/28/2024 20:19	55002	NEWP_T1	2	2	0	0.15	0.2	0.05	-0.26	-0.25	0	0	0	0	0	0
10/28/2024 20:19	46506	LOHA_T1	3	3	0	5.03	5.63	0.6	0	0	0	0	0	0	0	0
10/28/2024 20:19	52006	LING_T2	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
10/28/2024 20:19	46504	LOHA_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/28/2024 20:19	44301	BEAV_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/28/2024 20:19	58401	MORO_T1	0	0	0	0	0	0	-3.81	-3.79	2	2	0	1200	1200	0
10/28/2024 20:19	65503	MOJO_T2	2	11	9	0.1	0.1	0	0	0	0	0	0	0	0	0
10/28/2024 20:19	65502	MOJO_T2	75	157	82	0.11	0.13	0.02	0	0	0	0	0	0	0	0
10/28/2024 20:19	52002	LING_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
10/28/2024 20:20	65603	QVIL_T2	179	38	-141	0.2	0.17	-0.03	0.02	0.07	0	0	0	0	0	0
10/28/2024 20:20	25503	MADI_T1	0	0	0	0	0	0	-1.08	-0.98	0	0	0	0	0	0
10/28/2024 20:20	65602	QVIL_T2	5	10	5	0.28	0.21	-0.07	0	0	0	0	0	0	0	0
10/28/2024 20:20	57401	SPAN_T1	2	2	0	1	1.15	0.15	0.25	0.25	0	0	0	0	0	0
10/28/2024 20:20	65601	QVIL_T2	136	62	-74	0.38	0.18	-0.2	0	0	0	0	0	0	0	0
10/28/2024 20:20	25501	MADI_T1	2	3	1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
10/28/2024 20:20	64101	REFR_T1	1	1	0	0.5	0	-0.5	-0.01	-0.01	0	0	0	0	0	0
10/28/2024 20:20	57205	ROSS_T1	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
10/28/2024 20:20	59301	MCAL_T1	1	32	31	0.1	0.16	0.06	-1.27	-1.33	0	0	0	0	0	0
10/28/2024 20:20	59302	MCAL_T1	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
10/28/2024 20:20	65604	QVIL_T2	3	3	0	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
10/28/2024 20:20	40902	JESH_T1	0	0	0	0	0	0	-0.72	-0.76	0	0	0	0	0	0
10/28/2024 20:20	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 20:20	57201	ROSS_T1	22	54	32	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
10/28/2024 20:21	57201	ROSS_T1	22	54	32	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
10/28/2024 20:21	64802	MONE_T2	165	80	-85	0.17	0.17	0	0.2	0.18	0	0	0	0	0	0
10/28/2024 20:21	55002	NEWP_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
10/28/2024 20:21	53501	EVIL_T2	0	0	0	0	0	0	-0.85	-0.8	1	1	0	600	600	0
10/28/2024 20:21	44301	BEAV_T2	2	1	-1	0.3	0	-0.3	0.03	0	1	1	0	600	600	0
10/28/2024 20:21	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	-0.43	-0.43	0	0	0	0	0	0
10/28/2024 20:21	64801	MONE_T2	23	49	26	0.2	0.22	0.02	0	0	0	0	0	0	0	0
10/28/2024 20:21	57203	ROSS_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
10/28/2024 20:21	54001	SDLE_T1	8	10	2	1.06	1.12	0.06	0	0	0	0	0	0	0	0
10/28/2024 20:22	48902	FOSP_T2	6	6	0	0.15	0.22	0.07	0	0	0	0	0	0	0	0
10/28/2024 20:22	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/28/2024 20:22	12803	MICK_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/28/2024 20:22	12807	MICK_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
10/28/2024 20:22	52006	LING_T2	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
10/28/2024 20:22	65603	QVIL_T2	179	38	-141	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
10/28/2024 20:22	64204	KINZ_T1	1	10	9	0.8	0.24	-0.56	0	0	0	0	0	0	0	0
10/28/2024 20:22	60801	BUCK_T1	46	62	16	0.18	0.27	0.09	0	0	0	0	0	0	0	0
10/28/2024 20:22	65601	QVIL_T2	136	62	-74	0.38	0.18	-0.2	0	0	0	0	0	0	0	0
10/28/2024 20:22	66505	SMAN_T2	3	3	0	1.17	1.37	0.2	0	0	0	0	0	0	0	0
10/28/2024 20:22	66504	SMAN_T2	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
10/28/2024 20:22	40601	PIGR_T1	22	31	9	0.12	0.15	0.03	0	0	0	0	0	0	0	0
10/28/2024 20:22	48901	FOSP_T2	1	0	-1	0.1	0	-0.1	0.66	0.99	0	0	0	0	0	0
10/28/2024 20:22	40602	PIGR_T1	1	3	2	1.3	0.47	-0.83	0	0	0	0	0	0	0	0
10/28/2024 20:22	59402	RFLD_T2	0	0	0	0	0	0	-0.89	-0.91	1	1	0	450	450	0
10/28/2024 20:22	52004	LING_T2	2	2	0	6.45	6.65	0.2	0.11	0.17	0	0	0	0	0	0
10/28/2024 20:22	64203	KINZ_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
10/28/2024 20:22	59301	MCAL_T1	1	32	31	0.1	0.16	0.06	0	0	0	0	0	0	0	0
10/28/2024 20:22	59302	MCAL_T1	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
10/28/2024 20:22	65602	QVIL_T2	5	10	5	0.28	0.21	-0.07	0	0	0	0	0	0	0	0
10/28/2024 20:22	64201	KINZ_T1	1	5	4	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
10/28/2024 20:22	12802	MICK_T1	0	5	5	0	0.12	0.12	-1.36	-1.37	0	0	0	0	0	0
10/28/2024 20:22	65604	QVIL_T2	3	3	0	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
10/28/2024 20:22	52002	LING_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
10/28/2024 20:22	60803	BUCK_T1	16	20	4	0.26	0.29	0.03	-0.53	-0.52	1	1	0	600	600	0
10/28/2024 20:23	67804	WLAN_T1	20	73	53	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
10/28/2024 20:23	64904	MILL_T1	0	1	1	0	0.2	0.2	0.41	0.46	0	0	0	0	0	0
10/28/2024 20:23	67802	WLAN_T1	36	42	6	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/28/2024 20:23	55002	NEWP_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
10/28/2024 20:23	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	-0.43	-0.44	0	0	0	0	0	0
10/28/2024 20:23	58401	MORO_T1	0	0	0	0	0	0	-1.9	-1.87	1	1	0	600	600	0
10/28/2024 20:23	67803	WLAN_T1	5	46	41	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
10/28/2024 20:23	64901	MILL_T1	19	39	20	0.16	0.2	0.04	0	0	0	0	0	0	0	0
10/28/2024 20:23	60803	BUCK_T1	16	20	4	0.26	0.29	0.03	0	0	0	0	0	0	0	0
10/28/2024 20:23	60801	BUCK_T1	46	62	16	0.18	0.27	0.09	-0.28	-0.27	0	0	0	0	0	0
10/28/2024 20:23	67805	WLAN_T1	536	585	49	0.43	0.6	0.17	-1.58	-1.57	0	0	0	0	0	0
10/28/2024 20:24	57201	ROSS_T1	22	54	32	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
10/28/2024 20:24	57403	SPAN_T1	0	0	0	0	0	0	0.01	-0.02	0	0	0	0	0	0
10/28/2024 20:24	46504	LOHA_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/28/2024 20:24	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
10/28/2024 20:24	59101	WALK_T2	0	0	0	0	0	0	1.2	1.11	0	0	0	0	0	0
10/28/2024 20:24	57203	ROSS_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
10/28/2024 20:24	48902	FOSP_T2	6	6	0	0.15	0.22	0.07	0	0	0	0	0	0	0	0
10/28/2024 20:24	57401	SPAN_T1	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
10/28/2024 20:24	46506	LOHA_T1	3	3	0	5.03	5.63	0.6	0	0	0	0	0	0	0	0
10/28/2024 20:24	48901	FOSP_T2	1	0	-1	0.1	0	-0.1	0.22	0.33	0	0	0	0	0	0
10/28/2024 20:25	55002	NEWP_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
10/28/2024 20:25	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/28/2024 20:26	48901	FOSP_T2	1	0	-1	0.1	0	-0.1	0.22	0.33	0	0	0	0	0	0
10/28/2024 20:26	48902	FOSP_T2	6	6	0	0.15	0.22	0.07	-0.06	-0.08	0	0	0	0	0	0
10/28/2024 20:34	42701	AUGU_T1	1	1	0	0.6	1	0.4	0	0	2	2	0	1800	1800	0
10/28/2024 20:35	10705	CATA_T2	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
10/28/2024 20:37	55002	NEWP_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/28/2024 20:37	55001	NEWP_T1	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
10/28/2024 20:38	44702	MUNC_T2	117	128	11	0.39	0.47	0.08	0	0	0	0	0	0	0	0
10/28/2024 20:38	44703	MUNC_T2	2	2	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
10/28/2024 20:38	44701	MUNC_T2	19	46	27	0.18	0.18	0	0	0	0	0	0	0	0	0
10/28/2024 20:40	28102	TWLA_T2	0	3	3	0	0.27	0.27	0.18	0.18	0	0	0	0	0	0
10/28/2024 20:40	67501	WEWI_T1	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
10/28/2024 20:41	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/28/2024 20:41	54502	ENOL_T2	0	0	0	0	0	0	-1.41	-1.42	0	0	0	0	0	0
10/28/2024 20:44	67401	WAKE_T2	70	83	13	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
10/28/2024 20:44	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
10/28/2024 20:55	60101	COCA_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
10/28/2024 21:01	57201	ROSS_T1	43	95	52	0.24	0.23	-0.01	-0.59	-0.62	0	0	0	0	0	0
10/28/2024 21:01	57203	ROSS_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
10/28/2024 21:12	46802	HEPB_T1	1	1	0	1	1.2	0.2	-0.28	-0.28	0	0	0	0	0	0
10/28/2024 21:15	66502	SMAN_T2	4	6	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/28/2024 21:15	66501	SMAN_T2	15	39	24	0.11	0.11	0	0	0	0	0	0	0	0	0
10/28/2024 21:15	66505	SMAN_T2	3	3	0	1.6	1.83	0.23	0	0	0	0	0	0	0	0
10/28/2024 21:15	66503	SMAN_T2	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/28/2024 21:23	65503	MOJO_T2	198	276	78	0.17	0.2	0.03	0	0	0	0	0	0	0	0
10/28/2024 21:23	65502	MOJO_T2	306	311	5	0.31	0.35	0.04	-1.17	-1.15	0	0	0	0	0	0
10/28/2024 21:24	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 21:25	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2024 21:27	46504	LOHA_T1	1	3	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0
10/28/2024 21:27	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
10/28/2024 21:27	46506	LOHA_T1	3	3	0	5.27	5.77	0.5	0	0	0	0	0	0	0	0
10/28/2024 21:36	12606	MACA_T1	0	0	0	0	0	0	-0.44	-0.48	1	1	0	900	900	0
10/28/2024 21:38	48901	FOSP_T2	4	4	0	0.18	0.25	0.07	0.22	0.21	0	0	0	0	0	0
10/28/2024 21:38	48902	FOSP_T2	5	9	4	0.18	0.21	0.03	0	0	0	0	0	0	0	0
10/28/2024 22:35	63803	HEMP_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
10/28/2024 22:35	63804	HEMP_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
10/29/2024 1:40	67503	WEWI_T2	2	1	-1	4.2	8	3.8	-0.35	-0.4	0	0	0	0	0	0
10/29/2024 8:17	64101	REFR_T1	0	0	0	0	0	0	20.47	20.47	0	0	0	0	0	0
10/29/2024 8:19	64101	REFR_T1	0	0	0	0	0	0	40.94	40.94	0	0	0	0	0	0
10/29/2024 8:19	15203	SFAR_T2	0	1	1	0	0.1	0.1	-1.42	-1.35	0	0	0	0	0	0
10/29/2024 8:21	64101	REFR_T1	0	0	0	0	0	0	40.94	40.94	0	0	0	0	0	0
10/29/2024 8:24	67505	WEWI_T1	0	0	0	0	0	0	20.43	20.42	1	1	0	900	900	0
10/29/2024 8:25	67605	WARW_T1	1	5	4	0.2	0.28	0.08	0	0	0	0	0	0	0	0
10/29/2024 8:25	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 8:26	67504	WEWI_T1	0	0	0	0	0	0	20.08	20.07	1	1	0	900	900	0
10/29/2024 8:28	14201	EALL_T1	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
10/29/2024 8:33	57304	MOAL_T2	0	0	0	0	0	0	-0.08	-0.16	0	0	0	0	0	0
10/29/2024 8:33	57303	MOAL_T2	1	1	0	6.9	7.3	0.4	0	0	0	0	0	0	0	0
10/29/2024 8:33	57301	MOAL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 8:33	64903	MILL_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
10/29/2024 8:33	12002	HATF_T1	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
10/29/2024 8:33	12006	HATF_T1	0	2	2	0	0	0	0.29	0.43	1	1	0	1200	1200	0
10/29/2024 8:33	64301	LINC_T1	0	0	0	0	0	0	20.47	20.47	1	1	0	600	600	0
10/29/2024 8:37	15204	SFAR_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
10/29/2024 8:37	15203	SFAR_T2	0	50	50	0	0.12	0.12	0	0	0	0	0	0	0	0
10/29/2024 8:40	45501	DERR_T2	0	0	0	0	0	0	0.62	0.71	2	2	0	1800	1800	0
10/29/2024 8:40	45502	DERR_T2	1	2	1	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
10/29/2024 8:42	45502	DERR_T2	1	2	1	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
10/29/2024 8:42	23901	EFMO_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
10/29/2024 8:42	45501	DERR_T2	0	0	0	0	0	0	0.62	0.71	2	2	0	1800	1800	0
10/29/2024 8:43	53902	HALI_T2	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
10/29/2024 8:43	53903	HALI_T2	2	2	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
10/29/2024 8:43	53901	HALI_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
10/29/2024 8:44	64202	KINZ_T1	3	3	0	0.73	0.97	0.24	0	0	0	0	0	0	0	0
10/29/2024 8:44	64201	KINZ_T1	0	0	0	0	0	0	-0.44	-0.45	3	3	0	1500	1500	0
10/29/2024 8:44	64204	KINZ_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
10/29/2024 8:45	46602	LACR_T1	0	1	1	0	0.1	0.1	-1.14	-1.17	0	0	0	0	0	0
10/29/2024 8:46	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	0.29	0.51	0	0	0	0	0	0
10/29/2024 8:46	63804	HEMP_T1	5	1	-4	1.16	5.4	4.24	0	0	0	0	0	0	0	0
10/29/2024 8:46	63803	HEMP_T1	13	0	-13	0.12	0	-0.12	0	0	0	0	0	0	0	0
10/29/2024 8:47	64204	KINZ_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
10/29/2024 8:47	64902	MILL_T2	0	0	0	0	0	0	-0.76	0.22	1	0	-1	900	0	-900
10/29/2024 8:47	53901	HALI_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
10/29/2024 8:47	53903	HALI_T2	2	2	0	1.7	1.5	-0.2	-0.1	-0.12	0	0	0	0	0	0
10/29/2024 8:47	53902	HALI_T2	1	1	0	6.4	5.9	-0.5	0	0	0	0	0	0	0	0
10/29/2024 8:47	64202	KINZ_T1	3	3	0	0.97	0.73	-0.24	0	0	0	0	0	0	0	0
10/29/2024 8:47	64201	KINZ_T1	0	0	0	0	0	0	-0.44	-0.45	3	3	0	1500	1500	0
10/29/2024 8:48	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/29/2024 8:48	53901	HALI_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
10/29/2024 8:48	53902	HALI_T2	1	1	0	6.4	5.9	-0.5	0	0	0	0	0	0	0	0
10/29/2024 8:48	63803	HEMP_T1	13	0	-13	0.12	0	-0.12	0.43	0.45	0	0	0	0	0	0
10/29/2024 8:48	63804	HEMP_T1	5	1	-4	1.16	5.4	4.24	0	0	0	0	0	0	0	0
10/29/2024 8:48	26401	INOR_T1	1	1	0	7.6	7	-0.6	0	0	0	0	0	0	0	0
10/29/2024 8:48	26402	INOR_T1	0	0	0	0	0	0	19.55	19.56	1	1	0	600	600	0
10/29/2024 8:48	53903	HALI_T2	2	2	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
10/29/2024 8:50	64902	MILL_T2	0	0	0	0	0	0	-0.76	0.22	1	0	-1	900	0	-900
10/29/2024 8:51	64902	MILL_T2	0	0	0	0	0	0	0.22	0.24	1	0	-1	900	0	-900
10/29/2024 8:55	63501	HEID_TBK1-2	2	2	0	0.75	0.9	0.15	0.13	0.08	1	1	0	900	900	0
10/29/2024 8:58	63501	HEID_TBK1-2	2	2	0	0.75	0.9	0.15	0.13	0.08	1	1	0	900	900	0
10/29/2024 8:59	54506	ENOL_T2	0	0	0	0	0	0	0.33	0.49	1	1	0	600	600	0
10/29/2024 8:59	63501	HEID_TBK1-2	2	2	0	0.75	0.9	0.15	0.13	0.08	1	1	0	900	900	0
10/29/2024 8:59	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/29/2024 8:59	54501	ENOL_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
10/29/2024 8:59	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
10/29/2024 9:00	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 9:05	15201	SFAR_T1	0	0	0	0	0	0	0.09	-0.01	1	1	0	1200	1200	0
10/29/2024 9:06	15203	SFAR_T2	50	60	10	0.12	0.14	0.02	-2.82	-2.78	0	0	0	0	0	0
10/29/2024 9:07	15203	SFAR_T2	50	60	10	0.12	0.14	0.02	-1.41	-1.39	0	0	0	0	0	0
10/29/2024 9:07	15201	SFAR_T1	0	0	0	0	0	0	-0.01	0.06	1	1	0	1200	1200	0
10/29/2024 9:08	15203	SFAR_T2	50	60	10	0.12	0.14	0.02	-1.41	-1.39	0	0	0	0	0	0
10/29/2024 9:09	15203	SFAR_T2	50	60	10	0.12	0.14	0.02	-1.41	-1.39	0	0	0	0	0	0
10/29/2024 9:10	46206	DANV_T2	1	1	0	1.1	0.9	-0.2	2.69	2.67	1	1	0	1200	1200	0
10/29/2024 9:10	15203	SFAR_T2	0	0	0	0	0	0	-1.41	-1.39	0	0	0	0	0	0
10/29/2024 9:11	46001	BERW_T1	0	0	0	0	0	0	0.28	1.51	0	0	0	0	0	0
10/29/2024 9:12	45901	AUBU_T1	0	0	0	0	0	0	0.61	0.67	0	0	0	0	0	0
10/29/2024 9:12	46206	DANV_T2	1	1	0	1.1	0.9	-0.2	5.39	5.35	2	2	0	2400	2400	0
10/29/2024 9:13	54206	PENN_T2	0	0	0	0	0	0	-0.04	0	0	0	0	0	0	0
10/29/2024 9:13	24701	FLND_T2	0	0	0	0	0	0	-0.92	-0.88	0	0	0	0	0	0
10/29/2024 9:13	54202	PENN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 9:14	41205	KENM_T2	0	0	0	0	0	0	-0.12	-0.08	0	0	0	0	0	0
10/29/2024 9:15	40802	EXCH_T2	0	0	0	0	0	0	-0.58	-0.21	0	0	0	0	0	0
10/29/2024 9:16	65502	MOJO_T2	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
10/29/2024 9:17	65502	MOJO_T2	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
10/29/2024 9:18	42902	MIDD_T2	0	1	1	0	0.1	0.1	-0.65	-0.63	2	2	0	1200	1200	0
10/29/2024 9:18	42903	MIDD_T2	2	2	0	0.2	0.65	0.45	0	0	0	0	0	0	0	0
10/29/2024 9:19	41205	KENM_T2	0	0	0	0	0	0	-0.12	-0.08	0	0	0	0	0	0
10/29/2024 9:20	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 9:20	55408	SHER_T2	1	1	0	3.8	4.2	0.4	0	0	0	0	0	0	0	0
10/29/2024 9:20	42902	MIDD_T2	0	1	1	0	0.1	0.1	-0.32	-0.32	1	1	0	600	600	0
10/29/2024 9:20	42903	MIDD_T2	2	2	0	0.2	0.65	0.45	0	0	0	0	0	0	0	0
10/29/2024 9:22	13001	NBET_T2	0	0	0	0	0	0	-0.91	-0.9	1	1	0	1200	1200	0
10/29/2024 9:24	42701	AUGU_T1	1	1	0	1.4	1.4	0	0	0	2	2	0	1800	1800	0
10/29/2024 9:28	64204	KINZ_T1	1	38	37	1	0.29	-0.71	0	0	0	0	0	0	0	0
10/29/2024 9:28	64202	KINZ_T1	3	3	0	0.63	0.7	0.07	0	0	0	0	0	0	0	0
10/29/2024 9:28	64201	KINZ_T1	0	1	1	0	0.5	0.5	-0.54	-0.46	3	3	0	1500	1500	0
10/29/2024 9:33	64305	LINC_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
10/29/2024 9:34	66502	SMAN_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/29/2024 9:34	66505	SMAN_T2	0	3	3	0	0.2	0.2	0.17	0.02	1	1	0	900	900	0
10/29/2024 9:34	59301	MCAL_T1	3	16	13	0.8	0.46	-0.34	-1.6	-1.65	1	1	0	600	600	0
10/29/2024 9:34	60501	NMAN_T2	4	28	24	0.1	0.16	0.06	0	0	0	0	0	0	0	0
10/29/2024 9:34	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/29/2024 9:34	60502	NMAN_T2	0	0	0	0	0	0	20.27	20.3	0	0	0	0	0	0
10/29/2024 9:35	67103	SPRI_T1	0	0	0	0	0	0	-0.15	-0.11	0	0	0	0	0	0
10/29/2024 9:36	50701	SMEC_T1	0	0	0	0	0	0	20.58	20.57	0	0	0	0	0	0
10/29/2024 9:37	66502	SMAN_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
10/29/2024 9:37	60501	NMAN_T2	4	28	24	0.1	0.16	0.06	0	0	0	0	0	0	0	0
10/29/2024 9:37	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
10/29/2024 9:37	66505	SMAN_T2	0	3	3	0	0.2	0.2	0.02	0.09	1	1	0	900	900	0
10/29/2024 9:37	13701	SCHN_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/29/2024 9:37	60502	NMAN_T2	0	0	0	0	0	0	20.3	20.27	0	0	0	0	0	0
10/29/2024 9:38	67602	WARW_T2	0	0	0	0	0	0	43.06	42.99	2	2	0	600	600	0
10/29/2024 9:39	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 9:39	29402	BELT_T1	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
10/29/2024 9:39	10101	ALLE_T3	1	1	0	6.8	1.5	-5.3	0	0	0	0	0	0	0	0
10/29/2024 9:39	67602	WARW_T2	0	0	0	0	0	0	21.53	21.5	1	1	0	300	300	0
10/29/2024 9:40	67602	WARW_T2	0	0	0	0	0	0	21.53	21.5	1	1	0	300	300	0
10/29/2024 9:41	15203	SFAR_T2	23	9	-14	0.12	0.24	0.12	-1.37	-1.34	0	0	0	0	0	0
10/29/2024 9:42	67605	WARW_T1	24	44	20	0.57	0.62	0.05	19.43	19.4	0	0	0	0	0	0
10/29/2024 9:42	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/29/2024 9:42	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/29/2024 9:42	29402	BELT_T1	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
10/29/2024 9:42	67602	WARW_T2	0	0	0	0	0	0	21.53	21.5	1	1	0	300	300	0
10/29/2024 9:43	12001	HATF_T1	0	0	0	0	0	0	0.49	0.64	1	1	0	600	600	0
10/29/2024 9:43	12002	HATF_T1	1	1	0	3.4	3.5	0.1	0	0	0	0	0	0	0	0
10/29/2024 9:43	54203	PENN_T1	18	18	0	1.66	1.49	-0.17	1.08	1.74	0	0	0	0	0	0
10/29/2024 9:43	54201	PENN_T1	10	10	0	1.22	1.05	-0.17	0	0	0	0	0	0	0	0
10/29/2024 9:43	29402	BELT_T1	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
10/29/2024 9:43	12006	HATF_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 9:44	12002	HATF_T1	1	1	0	3.4	3.5	0.1	0	0	0	0	0	0	0	0
10/29/2024 9:44	12006	HATF_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 9:44	20201	JERM_T1	0	0	0	0	0	0	99.99	99.99	1	1	0	1200	1200	0
10/29/2024 9:44	12001	HATF_T1	0	0	0	0	0	0	0.49	0.64	1	1	0	600	600	0
10/29/2024 9:46	55503	HERS_T1	0	0	0	0	0	0	-1.73	-1.73	0	0	0	0	0	0
10/29/2024 9:46	55501	HERS_T1	52	52	0	0.5	0.52	0.02	0	0	0	0	0	0	0	0
10/29/2024 9:46	55507	HERS_T1	12	14	2	0.23	0.23	0	-0.01	-0.01	0	0	0	0	0	0
10/29/2024 9:47	55508	HERS_T2	2	10	8	1.85	0.5	-1.35	0	0	0	0	0	0	0	0
10/29/2024 9:52	67603	WARW_T1	0	1	1	0	0.2	0.2	-0.2	0	0	0	0	0	0	0
10/29/2024 9:52	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 9:52	67605	WARW_T1	29	43	14	0.52	0.63	0.11	0	0	0	0	0	0	0	0
10/29/2024 9:53	67605	WARW_T1	29	43	14	0.52	0.63	0.11	0	0	0	0	0	0	0	0
10/29/2024 9:53	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 9:53	67604	WARW_T1	0	0	0	0	0	0	20.46	0	0	0	0	0	0	0
10/29/2024 9:53	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/29/2024 9:54	55105	WERT_T1	0	1	1	0	0.2	0.2	-0.68	-0.69	1	1	0	900	900	0
10/29/2024 9:55	60803	BUCK_T1	16	10	-6	0.29	0.16	-0.13	0	0	0	0	0	0	0	0
10/29/2024 9:55	55102	WERT_T2	0	0	0	0	0	0	-0.46	-0.33	2	2	0	1200	1200	0
10/29/2024 9:55	60801	BUCK_T1	7	1	-6	0.17	0.2	0.03	0.07	0.08	0	0	0	0	0	0
10/29/2024 9:55	67603	WARW_T1	0	1	1	0	0.2	0.2	-0.07	0	0	0	0	0	0	0
10/29/2024 9:55	51304	WIND_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
10/29/2024 9:55	67605	WARW_T1	29	43	14	0.52	0.63	0.11	0	0	0	0	0	0	0	0
10/29/2024 9:55	55105	WERT_T1	0	1	1	0	0.2	0.2	-0.68	-0.69	1	1	0	900	900	0
10/29/2024 9:56	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/29/2024 9:56	67605	WARW_T1	29	43	14	0.52	0.63	0.11	0	0	0	0	0	0	0	0
10/29/2024 9:56	55102	WERT_T2	0	0	0	0	0	0	-0.46	-0.33	2	2	0	1200	1200	0
10/29/2024 9:56	67604	WARW_T1	0	0	0	0	0	0	20.46	0	0	0	0	0	0	0
10/29/2024 9:57	67604	WARW_T1	0	0	0	0	0	0	20.46	0	0	0	0	0	0	0
10/29/2024 9:57	67603	WARW_T1	0	1	1	0	0.2	0.2	-0.07	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/29/2024 9:57	67605	WARW_T1	29	43	14	0.52	0.63	0.11	58.2	0	0	0	0	0	0	0
10/29/2024 9:58	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.17	-0.23	0	0	0	0	0	0
10/29/2024 10:00	67503	WEWI_T2	1	1	0	8.8	9.5	0.7	-0.21	-0.26	0	0	0	0	0	0
10/29/2024 10:00	54501	ENOL_T2	4	4	0	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
10/29/2024 10:00	10101	ALLE_T3	1	1	0	1.5	1	-0.5	0	0	0	0	0	0	0	0
10/29/2024 10:00	15603	NSTR_T2	0	0	0	0	0	0	-0.61	-0.65	0	0	0	0	0	0
10/29/2024 10:00	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/29/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.31	0.27	0	0	0	0	0	0
10/29/2024 10:00	64301	LINC_T1	0	0	0	0	0	0	21.01	21.09	0	0	0	0	0	0
10/29/2024 10:00	13701	SCHN_T2	0	3	3	0	0.23	0.23	0	-0.2	1	1	0	600	600	0
10/29/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	0.68	0.66	2	2	0	1800	1800	0
10/29/2024 10:00	55001	NEWP_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/29/2024 10:00	54505	ENOL_T2	1	2	1	1.4	0.8	-0.6	-1.31	-1.35	1	1	0	600	600	0
10/29/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
10/29/2024 10:00	55002	NEWP_T1	7	7	0	0.59	0.69	0.1	-0.24	-0.23	0	0	0	0	0	0
10/29/2024 10:00	67502	WEWI_T2	2	7	5	0.3	0.34	0.04	0	0	0	0	0	0	0	0
10/29/2024 10:00	13704	SCHN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/29/2024 10:00	64902	MILL_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
10/29/2024 10:00	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 10:00	65502	MOJO_T2	0	0	0	0	0	0	-0.28	-0.11	0	0	0	0	0	0
10/29/2024 10:00	15203	SFAR_T2	5	3	-2	0.28	0.43	0.15	-1.34	-1.36	0	0	0	0	0	0
10/29/2024 10:06	15203	SFAR_T2	5	3	-2	0.28	0.43	0.15	-1.36	-1.37	0	0	0	0	0	0
10/29/2024 10:06	54001	SDLE_T1	73	36	-37	0.34	0.53	0.19	0	0	0	0	0	0	0	0
10/29/2024 10:07	54603	SUMM_T2	0	0	0	0	0	0	-0.93	-0.93	2	2	0	1800	1800	0
10/29/2024 10:07	54602	SUMM_T2	10	16	6	0.25	0.41	0.16	0	0	0	0	0	0	0	0
10/29/2024 10:07	54601	SUMM_T2	10	12	2	0.52	0.53	0.01	0	0	0	0	0	0	0	0
10/29/2024 10:08	14801	TREI_T2	1	4	3	0.3	0.28	-0.02	0.37	0.35	0	0	0	0	0	0
10/29/2024 10:08	43801	SWIL_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
10/29/2024 10:08	67103	SPRI_T1	0	0	0	0	0	0	-0.06	-0.11	0	0	0	0	0	0
10/29/2024 10:08	43802	SWIL_T1	0	0	0	0	0	0	-0.27	-0.26	1	1	0	600	600	0
10/29/2024 10:08	54001	SDLE_T1	73	36	-37	0.34	0.53	0.19	0	0	0	0	0	0	0	0
10/29/2024 10:08	14802	TREI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/29/2024 10:09	29402	BELT_T1	1	2	1	7.5	4.2	-3.3	0	0	0	0	0	0	0	0
10/29/2024 10:09	14802	TREI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/29/2024 10:09	14801	TREI_T2	1	4	3	0.3	0.28	-0.02	0.37	0.35	0	0	0	0	0	0
10/29/2024 10:09	45901	AUBU_T1	0	0	0	0	0	0	0.62	1.69	0	0	0	0	0	0
10/29/2024 10:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/29/2024 10:10	10801	CHHI_T1	0	1	1	0	0.4	0.4	-1.53	-1.55	2	2	0	1500	1500	0
10/29/2024 10:10	67401	WAKE_T2	0	1	1	0	0.2	0.2	-0.75	-0.79	0	0	0	0	0	0
10/29/2024 10:10	15203	SFAR_T2	5	3	-2	0.28	0.43	0.15	-1.36	-1.37	0	0	0	0	0	0
10/29/2024 10:11	23902	EFMO_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 10:11	15203	SFAR_T2	5	3	-2	0.28	0.43	0.15	0	0	0	0	0	0	0	0
10/29/2024 10:11	40801	EXCH_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
10/29/2024 10:11	15204	SFAR_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
10/29/2024 10:11	40802	EXCH_T2	0	1	1	0	0.8	0.8	-0.51	-0.43	0	0	0	0	0	0
10/29/2024 10:11	23901	EFMO_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
10/29/2024 10:12	40801	EXCH_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
10/29/2024 10:12	40802	EXCH_T2	0	1	1	0	0.8	0.8	-0.51	-0.43	0	0	0	0	0	0
10/29/2024 10:13	46206	DANV_T2	1	1	0	0.6	0	-0.6	2.67	2.66	1	1	0	1200	1200	0
10/29/2024 10:13	40802	EXCH_T2	0	1	1	0	0.8	0.8	-0.51	-0.43	0	0	0	0	0	0
10/29/2024 10:13	40801	EXCH_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
10/29/2024 10:14	40802	EXCH_T2	0	1	1	0	0.8	0.8	-0.51	-0.43	0	0	0	0	0	0
10/29/2024 10:14	40801	EXCH_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
10/29/2024 10:15	40802	EXCH_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
10/29/2024 10:15	40801	EXCH_T2	0	3	3	0	0.27	0.27	-0.6	-0.61	1	1	0	1200	1200	0
10/29/2024 10:15	46206	DANV_T2	1	1	0	0	0	0	2.67	2.66	1	1	0	1200	1200	0
10/29/2024 10:15	20201	JERM_T1	0	0	0	0	0	0	99.99	99.99	1	1	0	1200	1200	0
10/29/2024 10:16	46206	DANV_T2	1	1	0	0	0	0	2.67	2.66	1	1	0	1200	1200	0
10/29/2024 10:17	65001	NEFF_T2	0	1	1	0	0.1	0.1	0.72	0.59	0	0	0	0	0	0
10/29/2024 10:17	65004	NEFF_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
10/29/2024 10:17	54701	NEBL_T1	4	4	0	0.6	1.03	0.43	0	0	0	0	0	0	0	0
10/29/2024 10:17	65003	NEFF_T2	6	7	1	0.15	0.24	0.09	0	0	0	0	0	0	0	0
10/29/2024 10:17	65005	NEFF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/29/2024 10:18	65001	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 10:18	65004	NEFF_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
10/29/2024 10:18	58401	MORO_T1	0	0	0	0	0	0	-3.26	-1.44	2	2	0	1200	1200	0
10/29/2024 10:18	65003	NEFF_T2	6	7	1	0.15	0.24	0.09	0	0	0	0	0	0	0	0
10/29/2024 10:18	65207	PRIN_T4	2	3	1	0.55	0.73	0.18	0	0	2	2	0	1800	1800	0
10/29/2024 10:18	65005	NEFF_T2	0	2	2	0	0.2	0.2	0	-0.02	0	0	0	0	0	0
10/29/2024 10:19	58401	MORO_T1	0	0	0	0	0	0	-3.26	-1.44	2	2	0	1200	1200	0
10/29/2024 10:19	65601	QVIL_T2	52	1	-51	0.16	0.8	0.64	0	0	0	0	0	0	0	0
10/29/2024 10:19	65602	QVIL_T2	5	7	2	0.24	0.17	-0.07	0	0	0	0	0	0	0	0
10/29/2024 10:19	64304	LINC_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/29/2024 10:19	64302	LINC_T2	0	0	0	0	0	0	1.11	1.15	0	0	0	0	0	0
10/29/2024 10:20	65602	QVIL_T2	5	7	2	0.24	0.17	-0.07	0	0	0	0	0	0	0	0
10/29/2024 10:20	65005	NEFF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/29/2024 10:20	57203	ROSS_T1	0	0	0	0	0	0	0.65	0.6	0	0	0	0	0	0
10/29/2024 10:20	65601	QVIL_T2	52	1	-51	0.16	0.8	0.64	-1.19	-0.24	1	0	-1	900	0	-900
10/29/2024 10:20	65004	NEFF_T2	1	2	1	0.1	0.45	0.35	-0.52	-0.53	0	0	0	0	0	0
10/29/2024 10:20	65603	QVIL_T2	0	0	0	0	0	0	0.72	0.53	0	0	0	0	0	0
10/29/2024 10:20	65001	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 10:20	57201	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 10:20	57205	ROSS_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
10/29/2024 10:20	65003	NEFF_T2	6	7	1	0.15	0.24	0.09	0	0	0	0	0	0	0	0
10/29/2024 10:21	65202	PRIN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/29/2024 10:21	65205	PRIN_T1	1	0	-1	9.5	0	-9.5	0	0	0	0	0	0	0	0
10/29/2024 10:21	54001	SDLE_T1	16	38	22	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
10/29/2024 10:22	54001	SDLE_T1	16	38	22	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
10/29/2024 10:22	54602	SUMM_T2	9	16	7	0.16	0.42	0.26	0	0	0	0	0	0	0	0
10/29/2024 10:22	57401	SPAN_T1	2	2	0	1.15	1.25	0.1	0	0	0	0	0	0	0	0
10/29/2024 10:22	57403	SPAN_T1	18	20	2	0.25	0.27	0.02	0.03	0.06	0	0	0	0	0	0
10/29/2024 10:22	58402	MORO_T1	0	0	0	0	0	0	0.01	0.06	2	2	0	1500	1500	0
10/29/2024 10:22	54601	SUMM_T2	9	12	3	0.54	0.6	0.06	-2.99	-3.06	2	2	0	2100	2100	0
10/29/2024 10:23	54001	SDLE_T1	16	38	22	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
10/29/2024 10:23	65601	QVIL_T2	52	1	-51	0.16	0.8	0.64	0	0	0	0	0	0	0	0
10/29/2024 10:23	65602	QVIL_T2	5	7	2	0.24	0.17	-0.07	0	0	0	0	0	0	0	0
10/29/2024 10:23	65603	QVIL_T2	0	0	0	0	0	0	1.06	1.1	0	0	0	0	0	0
10/29/2024 10:23	67106	SPRI_T2	0	0	0	0	0	0	-1.33	-1.33	1	1	0	900	900	0
10/29/2024 10:24	54601	SUMM_T2	9	12	3	0.54	0.6	0.06	-2.99	-3.06	2	2	0	2100	2100	0
10/29/2024 10:24	54001	SDLE_T1	16	38	22	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
10/29/2024 10:24	54602	SUMM_T2	9	16	7	0.16	0.42	0.26	0	0	0	0	0	0	0	0
10/29/2024 10:25	54001	SDLE_T1	16	38	22	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
10/29/2024 10:25	29401	BELT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/29/2024 10:25	29402	BELT_T1	1	2	1	7.4	4.25	-3.15	0	0	0	0	0	0	0	0
10/29/2024 10:26	29401	BELT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/29/2024 10:26	29402	BELT_T1	1	2	1	7.4	4.25	-3.15	0	0	0	0	0	0	0	0
10/29/2024 10:26	12202	FOGE_T2	8	2	-6	0.38	1.25	0.87	0	0	0	0	0	0	0	0
10/29/2024 10:26	12206	FOGE_T2	0	0	0	0	0	0	-1.62	-1.58	4	4	0	4200	4200	0
10/29/2024 10:26	54001	SDLE_T1	16	38	22	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
10/29/2024 10:27	44801	EDAN_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
10/29/2024 10:30	45702	LIND_T2	1	2	1	0.8	0.5	-0.3	-0.45	-0.46	0	0	0	0	0	0
10/29/2024 10:30	44505	HAMI_T2	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
10/29/2024 10:30	44502	HAMI_T2	1	2	1	3.3	1.75	-1.55	0	0	0	0	0	0	0	0
10/29/2024 10:30	17802	GILB_T1	2	2	0	0.15	0.85	0.7	0.11	0.11	0	0	0	0	0	0
10/29/2024 10:31	44502	HAMI_T2	1	2	1	3.3	1.75	-1.55	0	0	0	0	0	0	0	0
10/29/2024 10:31	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 10:31	17002	RIRO_T2	7	6	-1	0.39	0.58	0.19	0.52	0.53	0	0	0	0	0	0
10/29/2024 10:32	44502	HAMI_T2	1	2	1	3.3	1.75	-1.55	0	0	0	0	0	0	0	0
10/29/2024 10:32	44505	HAMI_T2	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
10/29/2024 10:34	13303	ORVI_T1	0	3	3	0	0.17	0.17	0.99	0.99	0	0	0	0	0	0
10/29/2024 10:36	57201	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/29/2024 10:36	10101	ALLE_T3	1	1	0	3.6	0	-3.6	0	0	0	0	0	0	0	0
10/29/2024 10:36	57205	ROSS_T1	2	2	0	0.3	0.75	0.45	0.2	0.19	0	0	0	0	0	0
10/29/2024 10:36	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 10:38	57205	ROSS_T1	2	2	0	0.3	0.75	0.45	0.19	0.22	0	0	0	0	0	0
10/29/2024 10:38	57201	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/29/2024 10:39	29401	BELT_T1	0	1	1	0	0.6	0.6	0	0	1	1	0	900	900	0
10/29/2024 10:39	57401	SPAN_T1	2	2	0	1.25	1.2	-0.05	0	0	0	0	0	0	0	0
10/29/2024 10:39	67603	WARW_T1	0	2	2	0	0.65	0.65	-0.01	-0.04	0	0	0	0	0	0
10/29/2024 10:39	67602	WARW_T2	0	0	0	0	0	0	21.78	3.07	1	1	0	300	300	0
10/29/2024 10:39	29402	BELT_T1	2	2	0	4.2	4.2	0	0	0	0	0	0	0	0	0
10/29/2024 10:39	67605	WARW_T1	18	22	4	0.56	0.6	0.04	0	0	0	0	0	0	0	0
10/29/2024 10:39	57403	SPAN_T1	14	22	8	0.26	0.3	0.04	0.06	-0.01	0	0	0	0	0	0
10/29/2024 10:40	67605	WARW_T1	18	22	4	0.56	0.6	0.04	19.39	2.29	0	0	0	0	0	0
10/29/2024 10:40	67603	WARW_T1	0	2	2	0	0.65	0.65	-0.03	-0.08	0	0	0	0	0	0
10/29/2024 10:41	60201	ATGL_T2	29	5	-24	0.14	0.26	0.12	-0.04	-0.09	0	0	0	0	0	0
10/29/2024 10:41	67605	WARW_T1	18	22	4	0.56	0.6	0.04	0	0	0	0	0	0	0	0
10/29/2024 10:41	67603	WARW_T1	0	2	2	0	0.65	0.65	-0.01	-0.04	0	0	0	0	0	0
10/29/2024 10:41	67602	WARW_T2	0	0	0	0	0	0	43.57	6.15	2	2	0	600	600	0
10/29/2024 10:41	63501	HEID_TBK1-2	4	6	2	0.55	0.62	0.07	0.12	0.22	1	1	0	900	900	0
10/29/2024 10:42	63501	HEID_TBK1-2	4	6	2	0.55	0.62	0.07	0.12	0.22	1	1	0	900	900	0
10/29/2024 10:42	67603	WARW_T1	0	2	2	0	0.65	0.65	-0.01	-0.04	0	0	0	0	0	0
10/29/2024 10:42	60801	BUCK_T1	1	1	0	0.3	0.2	-0.1	0.08	0.11	0	0	0	0	0	0
10/29/2024 10:42	67605	WARW_T1	18	22	4	0.56	0.6	0.04	19.39	2.29	0	0	0	0	0	0
10/29/2024 10:42	67602	WARW_T2	0	0	0	0	0	0	43.57	6.15	2	2	0	600	600	0
10/29/2024 10:42	60803	BUCK_T1	11	9	-2	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
10/29/2024 10:43	67605	WARW_T1	18	22	4	0.56	0.6	0.04	19.39	2.29	0	0	0	0	0	0
10/29/2024 10:43	67603	WARW_T1	0	2	2	0	0.65	0.65	-0.03	-0.08	0	0	0	0	0	0
10/29/2024 10:43	67602	WARW_T2	0	0	0	0	0	0	43.57	6.15	2	2	0	600	600	0
10/29/2024 10:44	55508	HERS_T2	5	8	3	0.84	0.61	-0.23	-2.64	-2.64	0	0	0	0	0	0
10/29/2024 10:44	17802	GILB_T1	2	2	0	0.15	0.85	0.7	0.11	0.08	0	0	0	0	0	0
10/29/2024 10:44	53501	EVIL_T2	2	2	0	0.15	0.5	0.35	0.62	0.68	2	2	0	1200	1200	0
10/29/2024 10:44	55507	HERS_T1	5	4	-1	0.16	0.18	0.02	-0.01	-0.01	0	0	0	0	0	0
10/29/2024 10:44	55501	HERS_T1	52	52	0	0.47	0.44	-0.03	0	0	0	0	0	0	0	0
10/29/2024 10:44	67602	WARW_T2	0	0	0	0	0	0	21.78	3.07	1	1	0	300	300	0
10/29/2024 10:45	67605	WARW_T1	17	32	15	0.57	0.49	-0.08	0	0	0	0	0	0	0	0
10/29/2024 10:45	67603	WARW_T1	0	3	3	0	0.6	0.6	-0.03	-0.08	0	0	0	0	0	0
10/29/2024 10:45	53501	EVIL_T2	2	3	1	0.4	0.73	0.33	1.24	1.35	4	4	0	2400	2400	0
10/29/2024 10:45	41801	GOCI_T2	0	6	6	0	0.4	0.4	0	0	0	0	0	0	0	0
10/29/2024 10:45	55508	HERS_T2	3	9	6	1.23	0.58	-0.65	-2.64	-2.64	0	0	0	0	0	0
10/29/2024 10:46	65503	MOJO_T2	0	0	0	0	0	0	-0.11	-0.05	0	0	0	0	0	0
10/29/2024 10:48	64801	MONE_T2	23	40	17	0.16	0.19	0.03	0.25	0.25	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/29/2024 10:48	64802	MONE_T2	80	125	45	0.19	0.24	0.05	0	0	0	0	0	0	0	0
10/29/2024 10:51	64902	MILL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/29/2024 10:51	64904	MILL_T1	1	2	1	0.1	0.15	0.05	0.4	0.4	0	0	0	0	0	0
10/29/2024 10:51	64901	MILL_T1	1	14	13	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/29/2024 10:51	64903	MILL_T2	0	1	1	0	0.2	0.2	0.2	0.25	0	0	0	0	0	0
10/29/2024 10:52	42701	AUGU_T1	1	3	2	1.6	0.73	-0.87	0	0	2	2	0	1800	1800	0
10/29/2024 10:52	64901	MILL_T1	1	14	13	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/29/2024 10:52	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
10/29/2024 10:52	64801	MONE_T2	23	40	17	0.16	0.19	0.03	0	0	0	0	0	0	0	0
10/29/2024 10:52	64802	MONE_T2	80	125	45	0.19	0.24	0.05	0.29	0.33	0	0	0	0	0	0
10/29/2024 10:52	15702	TANN_T2	0	0	0	0	0	0	-0.94	-0.79	0	0	0	0	0	0
10/29/2024 10:52	64904	MILL_T1	1	2	1	0.1	0.15	0.05	0.4	0.4	0	0	0	0	0	0
10/29/2024 10:53	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
10/29/2024 10:53	43801	SWIL_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
10/29/2024 10:53	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 10:53	15702	TANN_T2	0	0	0	0	0	0	-0.47	-0.39	0	0	0	0	0	0
10/29/2024 10:53	42701	AUGU_T1	1	3	2	1.6	0.73	-0.87	0	0	2	2	0	1800	1800	0
10/29/2024 10:54	43103	SMIL_T2	10	19	9	0.67	0.68	0.01	0	0	0	0	0	0	0	0
10/29/2024 10:54	43104	SMIL_T2	4	4	0	0.53	0.65	0.12	0	0	0	0	0	0	0	0
10/29/2024 10:54	43105	SMIL_T2	26	22	-4	0.38	0.44	0.06	0	0	0	0	0	0	0	0
10/29/2024 10:54	43108	SMIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/29/2024 10:54	42701	AUGU_T1	1	3	2	1.6	0.73	-0.87	0	0	2	2	0	1800	1800	0
10/29/2024 10:54	43102	SMIL_T2	8	10	2	1.01	0.84	-0.17	-0.82	-0.81	1	1	0	600	600	0
10/29/2024 10:54	43101	SMIL_T2	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
10/29/2024 10:55	43104	SMIL_T2	4	4	0	0.53	0.65	0.12	0	0	0	0	0	0	0	0
10/29/2024 10:55	43102	SMIL_T2	8	10	2	1.01	0.84	-0.17	-0.82	-0.81	1	1	0	600	600	0
10/29/2024 10:55	43103	SMIL_T2	10	19	9	0.67	0.68	0.01	-0.95	-0.99	0	0	0	0	0	0
10/29/2024 10:55	43108	SMIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/29/2024 10:55	43101	SMIL_T2	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
10/29/2024 10:55	43105	SMIL_T2	26	22	-4	0.38	0.44	0.06	0	0	0	0	0	0	0	0
10/29/2024 10:56	15702	TANN_T2	0	0	0	0	0	0	-0.47	-0.39	0	0	0	0	0	0
10/29/2024 10:56	43103	SMIL_T2	10	19	9	0.67	0.68	0.01	0	0	0	0	0	0	0	0
10/29/2024 10:56	43104	SMIL_T2	4	4	0	0.53	0.65	0.12	0	0	0	0	0	0	0	0
10/29/2024 10:56	42701	AUGU_T1	1	3	2	1.6	0.73	-0.87	0	0	0	0	0	0	0	0
10/29/2024 10:56	43101	SMIL_T2	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
10/29/2024 10:56	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
10/29/2024 10:56	43102	SMIL_T2	8	10	2	1.01	0.84	-0.17	0	0	0	0	0	0	0	0
10/29/2024 10:56	43105	SMIL_T2	26	22	-4	0.38	0.44	0.06	0	0	0	0	0	0	0	0
10/29/2024 10:56	43108	SMIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/29/2024 10:57	14203	EALL_T1	0	0	0	0	0	0	1.2	1.06	0	0	0	0	0	0
10/29/2024 10:58	42701	AUGU_T1	1	3	2	1.6	0.73	-0.87	0	0	2	2	0	1800	1800	0
10/29/2024 10:59	67602	WARW_T2	0	0	0	0	0	0	3.07	2.99	1	1	0	300	300	0
10/29/2024 10:59	43102	SMIL_T2	8	10	2	1.01	0.84	-0.17	0	0	0	0	0	0	0	0
10/29/2024 10:59	43105	SMIL_T2	26	22	-4	0.38	0.44	0.06	0	0	0	0	0	0	0	0
10/29/2024 10:59	43108	SMIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/29/2024 10:59	43104	SMIL_T2	4	4	0	0.53	0.65	0.12	0	0	0	0	0	0	0	0
10/29/2024 10:59	43101	SMIL_T2	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
10/29/2024 10:59	43103	SMIL_T2	10	19	9	0.67	0.68	0.01	-1.89	-1.97	0	0	0	0	0	0
10/29/2024 11:00	43108	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 11:00	43103	SMIL_T2	12	19	7	0.72	0.64	-0.08	0	0	0	0	0	0	0	0
10/29/2024 11:00	43102	SMIL_T2	9	10	1	0.87	0.82	-0.05	0	0	0	0	0	0	0	0
10/29/2024 11:00	43105	SMIL_T2	17	22	5	0.51	0.42	-0.09	0	0	0	0	0	0	0	0
10/29/2024 11:00	43104	SMIL_T2	4	4	0	0.55	0.63	0.08	0	0	0	0	0	0	0	0
10/29/2024 11:00	43101	SMIL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
10/29/2024 11:01	47203	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 11:01	45702	LIND_T2	2	3	1	0.5	0.7	0.2	-0.51	-0.55	0	0	0	0	0	0
10/29/2024 11:01	46101	MACI_T2	0	0	0	0	0	0	-0.63	-0.64	2	2	0	2400	2400	0
10/29/2024 11:01	45701	LIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/29/2024 11:02	64305	LINC_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/29/2024 11:02	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
10/29/2024 11:02	65503	MOJO_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
10/29/2024 11:06	54701	NEBL_T1	8	9	1	0.7	1.07	0.37	0	0	0	0	0	0	0	0
10/29/2024 11:06	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 11:08	57203	ROSS_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
10/29/2024 11:08	57205	ROSS_T1	2	3	1	0.75	1	0.25	0	0	0	0	0	0	0	0
10/29/2024 11:08	57201	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 11:10	20403	ASHF_T2	4	10	6	0.35	0.44	0.09	0.93	1.15	0	0	0	0	0	0
10/29/2024 11:10	20401	ASHF_T2	3	3	0	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
10/29/2024 11:10	20402	ASHF_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/29/2024 11:11	20402	ASHF_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/29/2024 11:11	20403	ASHF_T2	4	10	6	0.35	0.44	0.09	0.93	1.15	0	0	0	0	0	0
10/29/2024 11:11	20401	ASHF_T2	3	3	0	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
10/29/2024 11:12	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
10/29/2024 11:12	46506	LOHA_T1	4	4	0	3.73	3.73	0	0	0	0	0	0	0	0	0
10/29/2024 11:12	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 11:12	60901	DONG_T2	4	5	1	0.63	0.26	-0.37	0	0	0	0	0	0	0	0
10/29/2024 11:12	46504	LOHA_T1	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
10/29/2024 11:12	60902	DONG_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
10/29/2024 11:12	60201	ATGL_T2	5	28	23	0.26	0.18	-0.08	0	-0.03	0	0	0	0	0	0
10/29/2024 11:14	67603	WARW_T1	2	4	2	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
10/29/2024 11:14	67605	WARW_T1	22	35	13	0.58	0.49	-0.09	4.49	4.29	0	0	0	0	0	0
10/29/2024 11:15	55503	HERS_T1	0	0	0	0	0	0	-1.73	-1.73	0	0	0	0	0	0
10/29/2024 11:15	55501	HERS_T1	52	52	0	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
10/29/2024 11:15	20603	GRWO_T2	0	5	5	0	0.4	0.4	-0.7	-0.69	1	1	0	900	900	0
10/29/2024 11:15	55507	HERS_T1	4	6	2	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
10/29/2024 11:21	55408	SHER_T2	1	1	0	3.9	3.9	0	0	0	0	0	0	0	0	0
10/29/2024 11:21	58401	MORO_T1	0	0	0	0	0	0	-1.51	-1.58	2	2	0	1200	1200	0
10/29/2024 11:21	58402	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/29/2024 11:22	23001	SAJO_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
10/29/2024 11:22	23002	SAJO_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
10/29/2024 11:23	57403	SPAN_T1	71	89	18	0.26	0.26	0	0	0	0	0	0	0	0	0
10/29/2024 11:23	57401	SPAN_T1	2	3	1	1.45	1	-0.45	0.06	0.17	0	0	0	0	0	0
10/29/2024 11:23	13001	NBET_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
10/29/2024 11:25	15203	SFAR_T2	5	7	2	0.64	0.5	-0.14	-1.31	-1.31	0	0	0	0	0	0
10/29/2024 11:25	10903	COOP_T2	4	97	93	0.55	0.24	-0.31	-0.19	-0.19	1	1	0	600	600	0
10/29/2024 11:25	15204	SFAR_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/29/2024 11:25	10901	COOP_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
10/29/2024 11:26	10801	CHHI_T1	3	6	3	0.33	0.6	0.27	-1.44	-1.41	2	2	0	1500	1500	0
10/29/2024 11:26	43101	SMIL_T2	1	2	1	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
10/29/2024 11:26	43104	SMIL_T2	4	4	0	0.63	0.65	0.02	-0.52	-0.5	0	0	0	0	0	0
10/29/2024 11:26	43103	SMIL_T2	19	23	4	0.64	0.63	-0.01	0	0	0	0	0	0	0	0
10/29/2024 11:26	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/29/2024 11:26	43102	SMIL_T2	9	7	-2	0.9	0.89	-0.01	0	0	0	0	0	0	0	0
10/29/2024 11:26	43105	SMIL_T2	22	16	-6	0.41	0.45	0.04	0	0	0	0	0	0	0	0
10/29/2024 11:27	10903	COOP_T2	4	97	93	0.55	0.24	-0.31	-0.19	-0.19	1	1	0	600	600	0
10/29/2024 11:27	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/29/2024 11:27	43104	SMIL_T2	4	4	0	0.63	0.65	0.02	-0.52	-0.5	0	0	0	0	0	0
10/29/2024 11:27	10901	COOP_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
10/29/2024 11:27	43105	SMIL_T2	22	16	-6	0.41	0.45	0.04	0	0	0	0	0	0	0	0
10/29/2024 11:27	43101	SMIL_T2	1	2	1	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
10/29/2024 11:27	43102	SMIL_T2	9	7	-2	0.9	0.89	-0.01	0	0	0	0	0	0	0	0
10/29/2024 11:27	43103	SMIL_T2	19	23	4	0.64	0.63	-0.01	0	0	0	0	0	0	0	0
10/29/2024 11:28	43102	SMIL_T2	9	7	-2	0.9	0.89	-0.01	0	0	0	0	0	0	0	0
10/29/2024 11:28	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/29/2024 11:28	43105	SMIL_T2	22	16	-6	0.41	0.45	0.04	0	0	0	0	0	0	0	0
10/29/2024 11:28	10805	CHHI_T2	1	3	2	7.9	2.7	-5.2	-1.07	-0.98	1	1	0	1200	1200	0
10/29/2024 11:28	17805	GILB_T2	1	3	2	0.2	0.37	0.17	0	0	0	0	0	0	0	0
10/29/2024 11:28	17804	GILB_T2	4	8	4	0.6	0.6	0	-0.62	-0.6	0	0	0	0	0	0
10/29/2024 11:28	43103	SMIL_T2	19	23	4	0.64	0.63	-0.01	0	0	0	0	0	0	0	0
10/29/2024 11:28	43101	SMIL_T2	1	2	1	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
10/29/2024 11:28	43104	SMIL_T2	4	4	0	0.63	0.65	0.02	-0.52	-0.5	0	0	0	0	0	0
10/29/2024 11:28	44502	HAMI_T2	2	2	0	1.9	1.85	-0.05	-0.85	-0.79	0	0	0	0	0	0
10/29/2024 11:29	43103	SMIL_T2	19	23	4	0.64	0.63	-0.01	0	0	0	0	0	0	0	0
10/29/2024 11:29	43104	SMIL_T2	4	4	0	0.63	0.65	0.02	-0.52	-0.5	0	0	0	0	0	0
10/29/2024 11:29	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/29/2024 11:29	43105	SMIL_T2	22	16	-6	0.41	0.45	0.04	0	0	0	0	0	0	0	0
10/29/2024 11:29	43102	SMIL_T2	9	7	-2	0.9	0.89	-0.01	0	0	0	0	0	0	0	0
10/29/2024 11:29	43101	SMIL_T2	1	2	1	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
10/29/2024 11:30	45701	LIND_T2	0	1	1	0	0.2	0.2	-1.67	-1.61	0	0	0	0	0	0
10/29/2024 11:30	17804	GILB_T2	6	8	2	0.5	0.53	0.03	0	0	0	0	0	0	0	0
10/29/2024 11:30	17805	GILB_T2	1	3	2	0.6	0.37	-0.23	-0.09	-0.04	0	0	0	0	0	0
10/29/2024 11:30	45702	LIND_T2	2	5	3	0.85	0.58	-0.27	0	0	0	0	0	0	0	0
10/29/2024 11:32	17805	GILB_T2	1	3	2	0.6	0.37	-0.23	-0.09	-0.04	0	0	0	0	0	0
10/29/2024 11:32	17804	GILB_T2	6	8	2	0.5	0.53	0.03	0	0	0	0	0	0	0	0
10/29/2024 11:33	13303	ORVI_T1	3	1	-2	0.2	0.1	-0.1	0.99	0.96	0	0	0	0	0	0
10/29/2024 11:34	25402	LAHA_T2	0	0	0	0	0	0	-0.42	-0.5	0	0	0	0	0	0
10/29/2024 11:34	13303	ORVI_T1	3	1	-2	0.2	0.1	-0.1	0.99	0.96	0	0	0	0	0	0
10/29/2024 11:35	55002	NEWP_T1	7	11	4	1.3	0.99	-0.31	0	0	0	0	0	0	0	0
10/29/2024 11:35	55001	NEWP_T1	3	4	1	0.43	0.33	-0.1	-0.31	-0.25	0	0	0	0	0	0
10/29/2024 11:36	57402	SPAN_T2	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
10/29/2024 11:37	59201	THOM_T1	35	28	-7	0.34	0.34	0	0	0	0	0	0	0	0	0
10/29/2024 11:37	59202	THOM_T1	391	299	-92	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
10/29/2024 11:37	23001	SAJO_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
10/29/2024 11:37	13303	ORVI_T1	3	1	-2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/29/2024 11:38	15001	BLMO_T1	1	5	4	0.1	0.24	0.14	0	0	0	0	0	0	0	0
10/29/2024 11:40	46002	BERW_T2	1	4	3	0.1	0.38	0.28	0	0	0	0	0	0	0	0
10/29/2024 11:40	46004	BERW_T2	3	3	0	0.5	0.1	-0.4	-0.26	-0.2	0	0	0	0	0	0
10/29/2024 11:41	67601	WARW_T2	0	1	1	0	0	0	-0.47	0	0	0	0	0	0	0
10/29/2024 11:41	67605	WARW_T1	29	33	4	0.49	0.55	0.06	0	0	0	0	0	0	0	0
10/29/2024 11:41	11601	CEAL_T1	1	1	0	0.5	0.6	0.1	0	0	1	1	0	1200	1200	0
10/29/2024 11:41	14801	TREI_T2	8	16	8	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
10/29/2024 11:41	67604	WARW_T1	0	0	0	0	0	0	1.77	0	0	0	0	0	0	0
10/29/2024 11:41	67603	WARW_T1	3	4	1	0.63	0.75	0.12	0	0	0	0	0	0	0	0
10/29/2024 11:41	15001	BLMO_T1	1	5	4	0.1	0.24	0.14	0	0	0	0	0	0	0	0
10/29/2024 11:41	11603	CEAL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 11:41	60201	ATGL_T2	28	90	62	0.18	0.26	0.08	-0.11	-0.09	0	0	0	0	0	0
10/29/2024 11:41	59202	THOM_T1	391	299	-92	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
10/29/2024 11:41	46002	BERW_T2	1	4	3	0.1	0.38	0.28	0	0	0	0	0	0	0	0
10/29/2024 11:41	14802	TREI_T2	6	12	6	0.3	0.35	0.05	0.71	0.72	0	0	0	0	0	0
10/29/2024 11:41	59201	THOM_T1	35	28	-7	0.34	0.34	0	0	0	0	0	0	0	0	0
10/29/2024 11:41	46004	BERW_T2	3	3	0	0.5	0.1	-0.4	-0.26	-0.2	0	0	0	0	0	0
10/29/2024 11:42	67603	WARW_T1	3	4	1	0.63	0.75	0.12	0	0	0	0	0	0	0	0
10/29/2024 11:42	67604	WARW_T1	0	0	0	0	0	0	1.77	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/29/2024 11:42	67605	WARW_T1	29	33	4	0.49	0.55	0.06	4	0	0	0	0	0	0	0
10/29/2024 11:42	59201	THOM_T1	35	28	-7	0.34	0.34	0	0	0	0	0	0	0	0	0
10/29/2024 11:42	46002	BERW_T2	1	4	3	0.1	0.38	0.28	-0.73	-0.75	1	1	0	900	900	0
10/29/2024 11:42	46004	BERW_T2	3	3	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
10/29/2024 11:42	59202	THOM_T1	391	299	-92	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
10/29/2024 11:43	67605	WARW_T1	29	33	4	0.49	0.55	0.06	0	0	0	0	0	0	0	0
10/29/2024 11:43	21204	ECAR_T2	1	1	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
10/29/2024 11:43	67604	WARW_T1	0	0	0	0	0	0	1.77	0	0	0	0	0	0	0
10/29/2024 11:43	21206	ECAR_T2	1	1	0	6.9	7.8	0.9	0	0	0	0	0	0	0	0
10/29/2024 11:43	67603	WARW_T1	3	4	1	0.63	0.75	0.12	0	0	0	0	0	0	0	0
10/29/2024 11:44	46004	BERW_T2	3	3	0	0.5	0.1	-0.4	-0.26	-0.2	0	0	0	0	0	0
10/29/2024 11:44	46002	BERW_T2	1	4	3	0.1	0.38	0.28	0	0	0	0	0	0	0	0
10/29/2024 11:45	46002	BERW_T2	4	4	0	0.3	0.38	0.08	0	0	0	0	0	0	0	0
10/29/2024 11:45	64202	KINZ_T1	3	4	1	0.53	0.93	0.4	0	0	0	0	0	0	0	0
10/29/2024 11:45	46602	LACR_T1	1	1	0	2	2.2	0.2	-1.26	-1.27	0	0	0	0	0	0
10/29/2024 11:45	64204	KINZ_T1	66	67	1	0.76	0.71	-0.05	0	0	0	0	0	0	0	0
10/29/2024 11:45	46004	BERW_T2	3	2	-1	0.1	0	-0.1	-0.26	-0.2	0	0	0	0	0	0
10/29/2024 11:45	64203	KINZ_T1	0	0	0	0	0	0	1.02	1.1	1	1	0	600	600	0
10/29/2024 11:48	46602	LACR_T1	1	1	0	2	2.2	0.2	-1.26	-1.27	0	0	0	0	0	0
10/29/2024 11:53	67401	WAKE_T2	3	4	1	0.27	0.48	0.21	0	0	0	0	0	0	0	0
10/29/2024 11:53	67402	WAKE_T2	1	1	0	0.2	0.3	0.1	1	1	0	0	0	0	0	0
10/29/2024 11:53	43402	BENT_T1	0	2	2	0	0.45	0.45	-0.79	-1.29	1	2	1	900	1500	600
10/29/2024 11:53	51304	WIND_T2	1	1	0	1.1	1.5	0.4	-0.3	-0.22	0	0	0	0	0	0
10/29/2024 11:53	51306	WIND_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/29/2024 11:54	51304	WIND_T2	1	1	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
10/29/2024 11:54	51306	WIND_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/29/2024 11:55	46203	DANV_T2	4	3	-1	0.25	0.6	0.35	-0.79	-0.88	0	0	0	0	0	0
10/29/2024 11:55	44301	BEAV_T2	0	5	5	0	0.36	0.36	0.81	-0.12	1	1	0	600	600	0
10/29/2024 11:55	44302	BEAV_T2	0	12	12	0	0.55	0.55	0	0	0	0	0	0	0	0
10/29/2024 11:56	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 11:56	15203	SFAR_T2	7	30	23	0.5	0.28	-0.22	-1.34	-1.32	0	0	0	0	0	0
10/29/2024 11:56	62605	ENGL_T1	4	6	2	0.23	0.22	-0.01	-0.88	-0.87	0	0	0	0	0	0
10/29/2024 11:56	43402	BENT_T1	0	2	2	0	0.45	0.45	-0.79	-1.29	1	2	1	900	1500	600
10/29/2024 11:56	62606	ENGL_T1	4	35	31	0.1	0.1	0	0	0	0	0	0	0	0	0
10/29/2024 11:56	51306	WIND_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/29/2024 11:56	62602	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/29/2024 11:56	51304	WIND_T2	1	1	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
10/29/2024 11:56	15204	SFAR_T2	1	3	2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/29/2024 11:56	62607	ENGL_T1	2	2	0	0.45	0.45	0	-0.84	-0.85	0	0	0	0	0	0
10/29/2024 11:56	62601	ENGL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 11:57	57103	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 11:57	57104	SPHI_T2	1	6	5	1.1	0.72	-0.38	-0.49	-0.48	0	0	0	0	0	0
10/29/2024 11:57	62605	ENGL_T1	4	6	2	0.23	0.22	-0.01	-0.88	-0.87	0	0	0	0	0	0
10/29/2024 11:57	57106	SPHI_T2	3	4	1	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
10/29/2024 11:57	62602	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/29/2024 11:57	57101	SPHI_T2	5	6	1	1.36	1.4	0.04	0	0	0	0	0	0	0	0
10/29/2024 11:57	44801	EDAN_T2	2	3	1	0.6	0.77	0.17	0	0	0	0	0	0	0	0
10/29/2024 11:57	62606	ENGL_T1	4	35	31	0.1	0.1	0	0	0	0	0	0	0	0	0
10/29/2024 11:57	62601	ENGL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 11:57	62607	ENGL_T1	2	2	0	0.45	0.45	0	-0.84	-0.85	0	0	0	0	0	0
10/29/2024 11:57	44802	EDAN_T2	0	0	0	0	0	0	-2.41	-2.41	0	0	0	0	0	0
10/29/2024 11:58	62607	ENGL_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
10/29/2024 11:58	44801	EDAN_T2	2	3	1	0.6	0.77	0.17	0	0	0	0	0	0	0	0
10/29/2024 11:58	48901	FOSP_T2	0	1	1	0	0.1	0.1	-0.08	-0.24	2	2	0	1200	1200	0
10/29/2024 11:58	62606	ENGL_T1	4	35	31	0.1	0.1	0	-1.06	-0.89	1	1	0	900	900	0
10/29/2024 11:58	51306	WIND_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/29/2024 11:58	62601	ENGL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 11:58	48902	FOSP_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/29/2024 11:58	62604	ENGL_T1	0	0	0	0	0	0	0.33	0.36	1	1	0	600	600	0
10/29/2024 11:58	51304	WIND_T2	1	1	0	1.1	1.5	0.4	-0.15	-0.11	0	0	0	0	0	0
10/29/2024 11:58	62605	ENGL_T1	4	6	2	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
10/29/2024 11:58	44802	EDAN_T2	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
10/29/2024 11:58	62602	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/29/2024 11:59	48901	FOSP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 11:59	62601	ENGL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 11:59	62605	ENGL_T1	4	6	2	0.23	0.22	-0.01	-0.88	-0.87	0	0	0	0	0	0
10/29/2024 11:59	62606	ENGL_T1	4	35	31	0.1	0.1	0	0	0	0	0	0	0	0	0
10/29/2024 11:59	44802	EDAN_T2	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
10/29/2024 11:59	62607	ENGL_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
10/29/2024 11:59	62602	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/29/2024 11:59	44801	EDAN_T2	2	3	1	0.6	0.77	0.17	0	0	0	0	0	0	0	0
10/29/2024 11:59	48902	FOSP_T2	0	1	1	0	0.5	0.5	0.9	0.31	0	0	0	0	0	0
10/29/2024 12:00	62605	ENGL_T1	6	4	-2	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
10/29/2024 12:00	44802	EDAN_T2	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
10/29/2024 12:00	48902	FOSP_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/29/2024 12:00	46203	DANV_T2	3	2	-1	0.6	0.45	-0.15	-0.79	-0.88	0	0	0	0	0	0
10/29/2024 12:00	44801	EDAN_T2	3	2	-1	0.77	0.8	0.03	0	0	0	0	0	0	0	0
10/29/2024 12:00	62606	ENGL_T1	35	0	-35	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/29/2024 12:00	62601	ENGL_T1	0	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0
10/29/2024 12:00	62602	ENGL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/29/2024 12:00	48901	FOSP_T2	0	1	1	0	0.1	0.1	-0.04	-0.12	1	1	0	600	600	0
10/29/2024 12:00	62607	ENGL_T1	2	1	-1	0.45	0.6	0.15	-0.84	-0.85	0	0	0	0	0	0
10/29/2024 12:01	48902	FOSP_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
10/29/2024 12:01	62606	ENGL_T1	35	0	-35	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/29/2024 12:01	62607	ENGL_T1	2	1	-1	0.45	0.6	0.15	0	0	0	0	0	0	0	0
10/29/2024 12:01	62601	ENGL_T1	0	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0
10/29/2024 12:01	62605	ENGL_T1	6	4	-2	0.22	0.2	-0.02	-0.88	-0.87	0	0	0	0	0	0
10/29/2024 12:01	48901	FOSP_T2	0	1	1	0	0.1	0.1	-0.04	-0.12	1	1	0	600	600	0
10/29/2024 12:01	62602	ENGL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/29/2024 12:01	51306	WIND_T2	3	2	-1	0.17	0.15	-0.02	0.08	0.09	0	0	0	0	0	0
10/29/2024 12:01	51304	WIND_T2	1	1	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
10/29/2024 12:02	51306	WIND_T2	3	2	-1	0.17	0.15	-0.02	0.08	0.09	0	0	0	0	0	0
10/29/2024 12:02	48901	FOSP_T2	0	1	1	0	0.1	0.1	-0.08	-0.24	2	2	0	1200	1200	0
10/29/2024 12:02	51304	WIND_T2	1	1	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
10/29/2024 12:02	48902	FOSP_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
10/29/2024 12:04	42902	MIDD_T2	20	3	-17	0.23	0.5	0.27	-0.39	0.15	1	0	-1	600	0	-600
10/29/2024 12:04	42903	MIDD_T2	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0	0
10/29/2024 12:05	42903	MIDD_T2	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0	0
10/29/2024 12:05	42902	MIDD_T2	20	3	-17	0.23	0.5	0.27	0	0	0	0	0	0	0	0
10/29/2024 12:09	42902	MIDD_T2	20	3	-17	0.23	0.5	0.27	0.15	0.13	0	0	0	0	0	0
10/29/2024 12:09	48303	ORWI_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
10/29/2024 12:09	42903	MIDD_T2	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0	0
10/29/2024 12:09	48302	ORWI_T2	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
10/29/2024 12:10	16101	BING_T2	1	3	2	0.7	0.47	-0.23	0.62	0.65	0	0	0	0	0	0
10/29/2024 12:10	16102	BING_T2	1	6	5	0.6	0.63	0.03	0	0	0	0	0	0	0	0
10/29/2024 12:10	16103	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/29/2024 12:11	41702	LOGA_T2	3	4	1	0.3	0.43	0.13	0	0	0	0	0	0	0	0
10/29/2024 12:13	45902	AUBU_T1	2	1	-1	0.1	0.3	0.2	0.01	0.01	1	1	0	600	600	0
10/29/2024 12:18	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/29/2024 12:22	67401	WAKE_T2	4	3	-1	0.48	0.2	-0.28	-1.08	-1.05	0	0	0	0	0	0
10/29/2024 12:22	14801	TREI_T2	9	13	4	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
10/29/2024 12:22	14802	TREI_T2	1	7	6	0.1	0.21	0.11	0.42	0.33	0	0	0	0	0	0
10/29/2024 12:24	16902	MECK_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
10/29/2024 12:25	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 12:25	11601	CEAL_T1	1	1	0	0.3	0.8	0.5	0	0	1	1	0	1200	1200	0
10/29/2024 12:26	67402	WAKE_T2	0	0	0	0	0	0	1.02	1.02	0	0	0	0	0	0
10/29/2024 12:26	14204	EALL_T2	0	0	0	0	0	0	-0.4	-0.49	0	0	0	0	0	0
10/29/2024 12:26	67401	WAKE_T2	4	3	-1	0.48	0.2	-0.28	0	0	0	0	0	0	0	0
10/29/2024 12:27	67603	WARW_T1	4	3	-1	0.7	0.83	0.13	0	0	0	0	0	0	0	0
10/29/2024 12:27	67605	WARW_T1	21	28	7	0.46	0.58	0.12	2.11	2.18	0	0	0	0	0	0
10/29/2024 12:28	45502	DERR_T2	0	0	0	0	0	0	0.12	0.13	1	1	0	300	300	0
10/29/2024 12:28	45501	DERR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/29/2024 12:29	48901	FOSP_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/29/2024 12:29	48902	FOSP_T2	1	2	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
10/29/2024 12:30	48902	FOSP_T2	0	2	2	0	0.3	0.3	0.85	0.46	0	0	0	0	0	0
10/29/2024 12:31	48902	FOSP_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
10/29/2024 12:31	48901	FOSP_T2	1	1	0	0.1	0.2	0.1	-0.09	-0.06	1	1	0	600	600	0
10/29/2024 12:33	63602	LETO_T1	9	1	-8	0.19	0.2	0.01	-0.39	-0.39	0	0	0	0	0	0
10/29/2024 12:34	59301	MCAL_T1	11	3	-8	0.62	0.63	0.01	-1.66	-0.95	1	0	-1	600	0	-600
10/29/2024 12:34	63602	LETO_T1	9	1	-8	0.19	0.2	0.01	-0.39	-0.39	0	0	0	0	0	0
10/29/2024 12:34	59302	MCAL_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/29/2024 12:35	55002	NEWP_T1	7	11	4	0.69	0.79	0.1	-0.23	-0.23	0	0	0	0	0	0
10/29/2024 12:35	55001	NEWP_T1	14	3	-11	0.36	0.37	0.01	0	0	0	0	0	0	0	0
10/29/2024 12:38	14704	TREX_T1	1	1	0	1	4.1	3.1	0	0	0	0	0	0	0	0
10/29/2024 12:38	14705	TREX_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
10/29/2024 12:39	57201	ROSS_T1	14	10	-4	0.18	0.14	-0.04	-0.51	-0.54	0	0	0	0	0	0
10/29/2024 12:39	42701	AUGU_T1	8	8	0	0.46	0.51	0.05	0	0	2	2	0	1800	1800	0
10/29/2024 12:39	65804	RTWN_T1	0	0	0	0	0	0	0.04	0.13	1	1	0	600	600	0
10/29/2024 12:39	57205	ROSS_T1	5	4	-1	0.78	0.93	0.15	0	0	0	0	0	0	0	0
10/29/2024 12:40	60801	BUCK_T1	58	48	-10	0.32	0.3	-0.02	-0.18	0.03	0	0	0	0	0	0
10/29/2024 12:40	24602	VARD_T2	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
10/29/2024 12:40	24603	VARD_T2	8	11	3	0.63	1.02	0.39	0	0	0	0	0	0	0	0
10/29/2024 12:40	67602	WARW_T2	0	0	0	0	0	0	2.73	2.67	1	1	0	300	300	0
10/29/2024 12:40	60803	BUCK_T1	21	16	-5	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
10/29/2024 12:41	42701	AUGU_T1	8	8	0	0.46	0.51	0.05	0	0	0	0	0	0	0	0
10/29/2024 12:42	60801	BUCK_T1	58	48	-10	0.32	0.3	-0.02	0	0	0	0	0	0	0	0
10/29/2024 12:42	60803	BUCK_T1	21	16	-5	0.33	0.29	-0.04	-0.98	-0.98	2	2	0	1200	1200	0
10/29/2024 12:43	60803	BUCK_T1	21	16	-5	0.33	0.29	-0.04	-0.49	-0.49	1	1	0	600	600	0
10/29/2024 12:43	60801	BUCK_T1	58	48	-10	0.32	0.3	-0.02	0	0	0	0	0	0	0	0
10/29/2024 12:43	57205	ROSS_T1	5	4	-1	0.78	0.93	0.15	0	0	0	0	0	0	0	0
10/29/2024 12:43	57203	ROSS_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
10/29/2024 12:43	57201	ROSS_T1	14	10	-4	0.18	0.14	-0.04	-0.51	-0.54	0	0	0	0	0	0
10/29/2024 12:44	60803	BUCK_T1	21	16	-5	0.33	0.29	-0.04	-0.49	-0.49	1	1	0	600	600	0
10/29/2024 12:44	60801	BUCK_T1	58	48	-10	0.32	0.3	-0.02	-0.36	0.06	0	0	0	0	0	0
10/29/2024 12:45	60801	BUCK_T1	48	4	-44	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/29/2024 12:45	60803	BUCK_T1	16	5	-11	0.29	0.18	-0.11	-0.49	-0.49	1	1	0	600	600	0
10/29/2024 12:48	23201	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
10/29/2024 12:50	55002	NEWP_T1	7	12	5	0.66	0.74	0.08	-0.23	-0.25	0	0	0	0	0	0
10/29/2024 12:50	55001	NEWP_T1	2	5	3	0.2	0.5	0.3	0	0	0	0	0	0	0	0
10/29/2024 12:52	66502	SMAN_T2	6	6	0	0.38	0.43	0.05	0.36	0.2	0	0	0	0	0	0
10/29/2024 12:52	66504	SMAN_T2	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
10/29/2024 12:52	66501	SMAN_T2	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
10/29/2024 12:53	51301	WIND_T1	1	4	3	0.5	0.45	-0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/29/2024 12:53	66501	SMAN_T2	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
10/29/2024 12:53	51305	WIND_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/29/2024 12:53	51303	WIND_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/29/2024 12:53	64801	MONE_T2	42	43	1	0.19	0.2	0.01	0	0	0	0	0	0	0	0
10/29/2024 12:53	66504	SMAN_T2	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
10/29/2024 12:53	64802	MONE_T2	146	135	-11	0.31	0.31	0	0.24	0.26	0	0	0	0	0	0
10/29/2024 12:53	66502	SMAN_T2	6	6	0	0.38	0.43	0.05	0	0	0	0	0	0	0	0
10/29/2024 12:54	51303	WIND_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/29/2024 12:54	51301	WIND_T1	1	4	3	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
10/29/2024 12:54	51305	WIND_T1	1	1	0	0.4	0.5	0.1	0.22	0.17	0	0	0	0	0	0
10/29/2024 12:56	51301	WIND_T1	1	4	3	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
10/29/2024 12:56	51303	WIND_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/29/2024 12:56	51305	WIND_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/29/2024 12:57	63501	HEID_TBK1-2	8	8	0	0.63	0.58	-0.05	0.1	0.07	1	1	0	900	900	0
10/29/2024 12:57	29401	BELT_T1	4	2	-2	0.4	0.6	0.2	0	0	1	1	0	900	900	0
10/29/2024 12:57	29402	BELT_T1	4	5	1	2.35	1.86	-0.49	0	0	0	0	0	0	0	0
10/29/2024 12:57	42701	AUGU_T1	7	8	1	0.46	0.43	-0.03	0	0	2	2	0	1800	1800	0
10/29/2024 12:58	44301	BEAV_T2	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
10/29/2024 12:58	44302	BEAV_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/29/2024 13:00	63501	HEID_TBK1-2	8	6	-2	0.48	0.78	0.3	0.1	0.07	1	1	0	900	900	0
10/29/2024 13:01	63501	HEID_TBK1-2	8	6	-2	0.48	0.78	0.3	0.1	0.07	1	1	0	900	900	0
10/29/2024 13:01	28701	HAML_T2	3	1	-2	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
10/29/2024 13:01	28703	HAML_T2	3	2	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/29/2024 13:01	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/29/2024 13:02	22901	HARW_T1	0	0	0	0	0	0	-0.17	-0.17	1	1	0	1200	1200	0
10/29/2024 13:04	14801	TREI_T2	16	11	-5	0.39	0.43	0.04	0	0	0	0	0	0	0	0
10/29/2024 13:04	14802	TREI_T2	7	2	-5	0.27	0.1	-0.17	0.31	0.33	0	0	0	0	0	0
10/29/2024 13:04	59301	MCAL_T1	3	5	2	0.63	0.68	0.05	-0.75	-1.39	0	1	1	0	600	600
10/29/2024 13:07	43104	SMIL_T2	4	2	-2	0.6	0.65	0.05	0	0	0	0	0	0	0	0
10/29/2024 13:07	43105	SMIL_T2	10	11	1	0.36	0.31	-0.05	0	0	0	0	0	0	0	0
10/29/2024 13:07	43101	SMIL_T2	2	1	-1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
10/29/2024 13:07	43102	SMIL_T2	6	6	0	0.88	0.98	0.1	-0.78	-0.82	1	1	0	600	600	0
10/29/2024 13:07	43103	SMIL_T2	18	20	2	0.49	0.55	0.06	0	0	0	0	0	0	0	0
10/29/2024 13:12	41601	CLEV_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/29/2024 13:12	41602	CLEV_T1	1	2	1	0.9	0.35	-0.55	0	0	0	0	0	0	0	0
10/29/2024 13:13	41601	CLEV_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/29/2024 13:13	41602	CLEV_T1	1	2	1	0.9	0.35	-0.55	0	0	0	0	0	0	0	0
10/29/2024 13:14	41602	CLEV_T1	1	2	1	0.9	0.35	-0.55	0	0	0	0	0	0	0	0
10/29/2024 13:14	41601	CLEV_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/29/2024 13:20	66504	SMAN_T2	1	1	0	0.7	0.9	0.2	-0.96	-0.76	0	0	0	0	0	0
10/29/2024 13:20	66501	SMAN_T2	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
10/29/2024 13:20	66502	SMAN_T2	6	6	0	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
10/29/2024 13:20	59202	THOM_T1	60	41	-19	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
10/29/2024 13:20	59201	THOM_T1	7	2	-5	0.27	0.8	0.53	0	0	0	0	0	0	0	0
10/29/2024 13:22	66501	SMAN_T2	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
10/29/2024 13:22	66502	SMAN_T2	6	6	0	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
10/29/2024 13:22	66504	SMAN_T2	1	1	0	0.7	0.9	0.2	-0.38	-0.41	0	0	0	0	0	0
10/29/2024 13:22	25503	MADI_T1	0	0	0	0	0	0	-0.84	-1.19	0	0	0	0	0	0
10/29/2024 13:22	25501	MADI_T1	1	2	1	1.2	0.35	-0.85	0	0	0	0	0	0	0	0
10/29/2024 13:22	25502	MADI_T1	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
10/29/2024 13:24	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 13:24	55105	WERT_T1	2	2	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
10/29/2024 13:30	55105	WERT_T1	2	2	0	0.3	0.3	0	-0.67	-0.69	1	1	0	900	900	0
10/29/2024 13:32	48901	FOSP_T2	2	5	3	0.25	0.16	-0.09	-0.01	0	1	1	0	600	600	0
10/29/2024 13:32	48902	FOSP_T2	2	3	1	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
10/29/2024 13:33	48901	FOSP_T2	2	5	3	0.25	0.16	-0.09	-0.01	0	1	1	0	600	600	0
10/29/2024 13:33	48902	FOSP_T2	2	3	1	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
10/29/2024 13:36	64101	REFR_T1	4	3	-1	0.3	0.37	0.07	0.04	0.04	0	0	0	0	0	0
10/29/2024 13:37	55002	NEWP_T1	10	10	0	0.73	0.75	0.02	-0.24	-0.24	0	0	0	0	0	0
10/29/2024 13:37	55001	NEWP_T1	5	13	8	0.56	0.42	-0.14	0	0	0	0	0	0	0	0
10/29/2024 13:37	64101	REFR_T1	4	3	-1	0.3	0.37	0.07	0.04	0.04	0	0	0	0	0	0
10/29/2024 13:40	64101	REFR_T1	4	3	-1	0.3	0.37	0.07	0.04	0.04	0	0	0	0	0	0
10/29/2024 13:42	41601	CLEV_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/29/2024 13:42	41602	CLEV_T1	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
10/29/2024 13:44	23201	HIRU_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/29/2024 13:44	23202	HIRU_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
10/29/2024 13:45	48902	FOSP_T2	2	3	1	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
10/29/2024 13:45	48901	FOSP_T2	2	3	1	0.25	0.1	-0.15	0	-0.13	1	1	0	600	600	0
10/29/2024 13:46	46602	LACR_T1	0	1	1	0	0	0	-1.28	-1.22	0	0	0	0	0	0
10/29/2024 13:46	57702	PAXT_T1	1	1	0	0.6	0.4	-0.2	-0.06	-0.07	0	0	0	0	0	0
10/29/2024 13:47	23201	HIRU_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
10/29/2024 13:47	23203	HIRU_T2	0	0	0	0	0	0	0.18	0.1	0	0	0	0	0	0
10/29/2024 13:50	66504	SMAN_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/29/2024 13:50	66901	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 13:50	55001	NEWP_T1	13	8	-5	0.41	0.46	0.05	-0.32	-0.33	0	0	0	0	0	0
10/29/2024 13:50	66505	SMAN_T2	0	0	0	0	0	0	0.67	0.65	1	1	0	900	900	0
10/29/2024 13:50	55002	NEWP_T1	9	11	2	0.77	0.74	-0.03	0	0	0	0	0	0	0	0
10/29/2024 13:50	66502	SMAN_T2	4	4	0	0.43	0.43	0	0	0	0	0	0	0	0	0
10/29/2024 13:50	66903	SHIL_T2	3	2	-1	0.53	0.7	0.17	-0.95	-0.94	0	0	0	0	0	0
10/29/2024 13:50	66501	SMAN_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
10/29/2024 13:50	66902	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 13:52	66902	SHIL_T2	0	1	1	0	0.1	0.1	-0.94	-1.03	0	0	0	0	0	0
10/29/2024 13:52	66901	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 13:52	14802	TREI_T2	6	11	5	0.17	0.18	0.01	0.78	0.59	0	0	0	0	0	0
10/29/2024 13:52	14801	TREI_T2	12	23	11	0.51	0.33	-0.18	0	0	0	0	0	0	0	0
10/29/2024 13:52	66903	SHIL_T2	3	2	-1	0.53	0.7	0.17	0	0	0	0	0	0	0	0
10/29/2024 13:53	57403	SPAN_T1	16	36	20	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
10/29/2024 13:53	57401	SPAN_T1	2	2	0	1.05	1.6	0.55	0.07	0.14	0	0	0	0	0	0
10/29/2024 13:53	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 13:54	66903	SHIL_T2	3	2	-1	0.53	0.7	0.17	0	0	0	0	0	0	0	0
10/29/2024 13:54	66902	SHIL_T2	0	1	1	0	0.1	0.1	-1.87	-2.06	0	0	0	0	0	0
10/29/2024 13:54	66901	SHIL_T2	0	1	1	0	0.1	0.1	-0.28	-0.24	0	0	0	0	0	0
10/29/2024 13:55	67501	WEWI_T1	3	3	0	0.47	0.33	-0.14	-0.8	-0.8	0	0	0	0	0	0
10/29/2024 13:55	67503	WEWI_T2	3	3	0	3.43	3.4	-0.03	-0.28	-0.27	0	0	0	0	0	0
10/29/2024 13:55	67502	WEWI_T2	26	18	-8	0.38	0.34	-0.04	-0.26	-0.35	0	0	0	0	0	0
10/29/2024 13:55	66901	SHIL_T2	0	1	1	0	0.1	0.1	-0.28	-0.24	0	0	0	0	0	0
10/29/2024 13:55	66903	SHIL_T2	3	2	-1	0.53	0.7	0.17	-0.94	-0.94	0	0	0	0	0	0
10/29/2024 13:55	66902	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 13:55	64602	LEOL_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
10/29/2024 13:57	57201	ROSS_T1	8	21	13	0.14	0.17	0.03	-0.54	-0.6	0	0	0	0	0	0
10/29/2024 13:57	67502	WEWI_T2	26	18	-8	0.38	0.34	-0.04	-0.13	-0.18	0	0	0	0	0	0
10/29/2024 13:57	67503	WEWI_T2	3	3	0	3.43	3.4	-0.03	-0.28	-0.27	0	0	0	0	0	0
10/29/2024 13:57	57205	ROSS_T1	3	7	4	0.47	0.61	0.14	0	0	0	0	0	0	0	0
10/29/2024 13:58	29402	BELT_T1	5	3	-2	1.92	3.13	1.21	0	0	0	0	0	0	0	0
10/29/2024 13:58	29401	BELT_T1	3	3	0	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
10/29/2024 14:02	42902	MIDD_T2	1	2	1	0.6	0.2	-0.4	-0.31	-0.41	1	1	0	600	600	0
10/29/2024 14:03	48901	FOSP_T2	3	4	1	0.1	0.23	0.13	-0.13	-0.12	1	1	0	600	600	0
10/29/2024 14:03	40101	HUNT_T2	1	1	0	0.3	0	-0.3	-0.44	-0.47	0	0	0	0	0	0
10/29/2024 14:03	48902	FOSP_T2	3	2	-1	0.33	0.55	0.22	0	0	0	0	0	0	0	0
10/29/2024 14:04	42902	MIDD_T2	1	2	1	0.6	0.2	-0.4	-0.94	-1.22	3	3	0	1800	1800	0
10/29/2024 14:04	40603	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/29/2024 14:04	40601	PIGR_T1	104	120	16	0.33	0.36	0.03	-0.36	-0.46	0	0	0	0	0	0
10/29/2024 14:04	40602	PIGR_T1	1	0	-1	0.2	1.1	-0.2	0	0	0	0	0	0	0	0
10/29/2024 14:05	40101	HUNT_T2	1	1	0	0.3	0	-0.3	-0.44	-0.47	0	0	0	0	0	0
10/29/2024 14:05	40601	PIGR_T1	104	120	16	0.33	0.36	0.03	0	0	0	0	0	0	0	0
10/29/2024 14:05	40603	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/29/2024 14:05	40602	PIGR_T1	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
10/29/2024 14:06	64101	REFR_T1	3	5	2	0.37	0.26	-0.11	0.04	0.05	0	0	0	0	0	0
10/29/2024 14:08	64101	REFR_T1	3	5	2	0.37	0.26	-0.11	0	0	0	0	0	0	0	0
10/29/2024 14:09	40602	PIGR_T1	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
10/29/2024 14:09	66504	SMAN_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
10/29/2024 14:09	40601	PIGR_T1	104	120	16	0.33	0.36	0.03	-0.46	-0.38	0	0	0	0	0	0
10/29/2024 14:09	66501	SMAN_T2	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
10/29/2024 14:09	40603	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/29/2024 14:09	66502	SMAN_T2	4	4	0	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
10/29/2024 14:10	66504	SMAN_T2	1	1	0	0.8	0.2	-0.6	-0.41	-0.37	0	0	0	0	0	0
10/29/2024 14:10	66502	SMAN_T2	4	4	0	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
10/29/2024 14:10	66501	SMAN_T2	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
10/29/2024 14:13	55002	NEWP_T1	9	8	-1	0.61	0.8	0.19	0	0	0	0	0	0	0	0
10/29/2024 14:13	15203	SFAR_T2	8	10	2	0.46	0.39	-0.07	0	0	0	0	0	0	0	0
10/29/2024 14:13	55001	NEWP_T1	8	2	-6	0.46	0.55	0.09	-0.34	-0.3	0	0	0	0	0	0
10/29/2024 14:13	15204	SFAR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/29/2024 14:16	46101	MACI_T2	0	2	2	0	0.1	0.1	-1.26	-1.2	2	2	0	2400	2400	0
10/29/2024 14:22	67401	WAKE_T2	1	4	3	0.2	0.23	0.03	0	0	0	0	0	0	0	0
10/29/2024 14:22	64101	REFR_T1	4	6	2	0.25	0.25	0	0.05	0.04	0	0	0	0	0	0
10/29/2024 14:22	67402	WAKE_T2	0	1	1	0	0.2	0.2	1.01	0.5	0	0	0	0	0	0
10/29/2024 14:25	44301	BEAV_T2	0	0	0	0	0	0	-0.41	0.29	2	1	-1	1500	600	-900
10/29/2024 14:29	55507	HERS_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/29/2024 14:29	55501	HERS_T1	41	52	11	0.1	0.16	0.06	0	0	0	0	0	0	0	0
10/29/2024 14:30	44301	BEAV_T2	4	0	-4	1.23	0	-1.23	-0.41	0.29	2	1	-1	1500	600	-900
10/29/2024 14:38	55002	NEWP_T1	8	7	-1	0.79	0.81	0.02	-0.26	-0.26	0	0	0	0	0	0
10/29/2024 14:38	55001	NEWP_T1	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
10/29/2024 14:39	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 14:39	50623	CCTY_T2	5	5	0	5.78	5.64	-0.14	0	0	0	0	0	0	0	0
10/29/2024 14:39	50625	CCTY_T2	4	5	1	3.43	2.86	-0.57	0	0	0	0	0	0	0	0
10/29/2024 14:39	50624	CCTY_T2	2	2	0	6.3	6.3	0	0	0	0	0	0	0	0	0
10/29/2024 14:40	15203	SFAR_T2	9	6	-3	0.41	0.37	-0.04	-1.29	-1.25	0	0	0	0	0	0
10/29/2024 14:40	55001	NEWP_T1	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
10/29/2024 14:40	55002	NEWP_T1	8	7	-1	0.79	0.81	0.02	-0.26	-0.26	0	0	0	0	0	0
10/29/2024 14:43	21206	ECAR_T2	1	1	0	8	8.2	0.2	0.29	0.29	0	0	0	0	0	0
10/29/2024 14:43	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 14:48	67401	WAKE_T2	4	8	4	0.23	0.28	0.05	0	0	0	0	0	0	0	0
10/29/2024 14:48	67402	WAKE_T2	1	1	0	0.2	0.2	0	0.5	0.17	0	0	0	0	0	0
10/29/2024 14:52	67106	SPRI_T2	1	3	2	0.2	0.37	0.17	-1.18	-1.18	1	1	0	900	900	0
10/29/2024 14:53	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 14:54	67106	SPRI_T2	1	3	2	0.2	0.37	0.17	-1.18	-1.18	1	1	0	900	900	0
10/29/2024 14:54	64402	LAND_T2	0	0	0	0	0	0	-0.26	-0.29	1	1	0	600	600	0
10/29/2024 14:54	64101	REFR_T1	6	5	-1	0.25	0.28	0.03	0.05	-0.01	0	0	0	0	0	0
10/29/2024 14:56	67106	SPRI_T2	1	3	2	0.2	0.37	0.17	-1.18	-1.18	1	1	0	900	900	0
10/29/2024 15:00	61001	DONV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/29/2024 15:02	29501	LEDG_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/29/2024 15:02	29502	LEDG_T1	10	0	-10	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/29/2024 15:02	29503	LEDG_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/29/2024 15:03	67503	WEWI_T2	3	3	0	3.37	3.37	0	-0.28	-0.31	0	0	0	0	0	0
10/29/2024 15:03	67502	WEWI_T2	9	9	0	0.32	0.34	0.02	0	0	0	0	0	0	0	0
10/29/2024 15:04	61101	BERK_T5	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/29/2024 15:04	61103	BERK_T5	71	76	5	0.18	0.18	0	0.04	0.05	0	0	0	0	0	0
10/29/2024 15:04	61102	BERK_T5	3	3	0	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
10/29/2024 15:06	45003	LIME_2	1	1	0	4.8	5	0.2	0.14	0.2	0	0	0	0	0	0
10/29/2024 15:06	45002	LIME_2	1	1	0	4	4.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 15:07	65005	NEFF_T2	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
10/29/2024 15:07	65004	NEFF_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/29/2024 15:07	46004	BERW_T2	0	1	1	0	0	0	-0.38	-0.39	0	0	0	0	0	0
10/29/2024 15:07	65003	NEFF_T2	6	7	1	0.32	0.36	0.04	-1.68	-1.65	2	2	0	1800	1800	0
10/29/2024 15:08	45303	WBER_T2	1	1	0	9.6	9.5	-0.1	0	0	0	0	0	0	0	0
10/29/2024 15:08	67103	SPRI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 15:08	45302	WBER_T2	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
10/29/2024 15:11	67402	WAKE_T2	1	0	-1	0.2	0	-0.2	0.17	0.16	0	0	0	0	0	0
10/29/2024 15:11	67401	WAKE_T2	8	6	-2	0.26	0.25	-0.01	-1.05	-0.97	0	0	0	0	0	0
10/29/2024 15:11	24202	PROV_T4	1	1	0	1.4	0	-1.4	0	0	1	1	0	1200	1200	0
10/29/2024 15:11	43801	SWIL_T1	23	7	-16	0.42	0.99	0.57	0	0	0	0	0	0	0	0
10/29/2024 15:11	43802	SWIL_T1	0	0	0	0	0	0	-0.26	-0.28	1	1	0	600	600	0
10/29/2024 15:17	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
10/29/2024 15:17	67401	WAKE_T2	6	5	-1	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
10/29/2024 15:20	16504	STRO_T1	0	0	0	0	0	0	0.66	0.61	0	0	0	0	0	0
10/29/2024 15:22	43202	MVIL_T2	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
10/29/2024 15:23	15203	SFAR_T2	4	21	17	0.43	0.13	-0.3	-1.28	-1.27	0	0	0	0	0	0
10/29/2024 15:25	64101	REFR_T1	4	3	-1	0.33	0.63	0.3	0.04	0.04	0	0	0	0	0	0
10/29/2024 15:25	15203	SFAR_T2	4	21	17	0.43	0.13	-0.3	-1.28	-1.27	0	0	0	0	0	0
10/29/2024 15:26	67605	WARW_T1	11	13	2	0.41	0.38	-0.03	2.33	2.28	0	0	0	0	0	0
10/29/2024 15:26	66703	STRA_T1	4	4	0	0.35	0.33	-0.02	-0.1	-0.09	0	0	0	0	0	0
10/29/2024 15:28	67605	WARW_T1	11	13	2	0.41	0.38	-0.03	2.33	2.28	0	0	0	0	0	0
10/29/2024 15:28	15203	SFAR_T2	4	21	17	0.43	0.13	-0.3	-1.28	-1.27	0	0	0	0	0	0
10/29/2024 15:31	45802	HEGI_T2	0	17	17	0	0.36	0.36	1	0.9	0	1	1	0	300	300
10/29/2024 15:33	45802	HEGI_T2	0	17	17	0	0.36	0.36	1	0.9	0	1	1	0	300	300
10/29/2024 15:34	46506	LOHA_T1	3	3	0	5.2	5.07	-0.13	0	0	0	0	0	0	0	0
10/29/2024 15:34	46504	LOHA_T1	2	2	0	0.9	0.95	0.05	0	0	0	0	0	0	0	0
10/29/2024 15:34	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
10/29/2024 15:35	46506	LOHA_T1	3	3	0	5.2	5.07	-0.13	0	0	0	0	0	0	0	0
10/29/2024 15:35	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
10/29/2024 15:35	46504	LOHA_T1	2	2	0	0.9	0.95	0.05	0	0	0	0	0	0	0	0
10/29/2024 15:37	12302	LANA_T2	0	0	0	0	0	0	-1.74	-1.72	2	2	0	1500	1500	0
10/29/2024 15:38	17901	BART_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 15:38	67503	WEWI_T2	1	3	2	9.6	3.4	-6.2	-0.28	-0.27	0	0	0	0	0	0
10/29/2024 15:38	67502	WEWI_T2	8	62	54	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
10/29/2024 15:39	67503	WEWI_T2	1	3	2	9.6	3.4	-6.2	-0.56	-0.54	0	0	0	0	0	0
10/29/2024 15:39	67502	WEWI_T2	8	62	54	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
10/29/2024 15:40	17901	BART_T1	0	0	0	0	0	0	1.45	1.41	1	1	0	1200	1200	0
10/29/2024 15:40	67401	WAKE_T2	5	3	-2	0.14	0.27	0.13	-1.06	-1.08	0	0	0	0	0	0
10/29/2024 15:41	67503	WEWI_T2	1	3	2	9.6	3.4	-6.2	-0.28	-0.27	0	0	0	0	0	0
10/29/2024 15:41	67502	WEWI_T2	8	62	54	0.3	0.17	-0.13	-0.43	-0.42	0	0	0	0	0	0
10/29/2024 15:42	67503	WEWI_T2	1	3	2	9.6	3.4	-6.2	0	0	0	0	0	0	0	0
10/29/2024 15:42	17901	BART_T1	0	0	0	0	0	0	1.45	1.41	1	1	0	1200	1200	0
10/29/2024 15:42	67502	WEWI_T2	8	62	54	0.3	0.17	-0.13	-0.43	-0.42	0	0	0	0	0	0
10/29/2024 15:44	64204	KINZ_T1	3	18	15	0.4	0.29	-0.11	0	0	0	0	0	0	0	0
10/29/2024 15:44	64201	KINZ_T1	0	0	0	0	0	0	0.12	-0.1	3	3	0	1500	1500	0
10/29/2024 15:47	64204	KINZ_T1	3	19	16	0.57	0.28	-0.29	0	0	0	0	0	0	0	0
10/29/2024 15:47	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 15:47	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 15:48	58401	MORO_T1	0	0	0	0	0	0	-0.78	-0.78	1	1	0	600	600	0
10/29/2024 15:50	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 15:58	63501	HEID_TBK1-2	32	25	-7	0.26	0.24	-0.02	-0.16	-0.15	1	1	0	900	900	0
10/29/2024 16:01	63501	HEID_TBK1-2	25	12	-13	0.2	0.33	0.13	-0.16	-0.15	1	1	0	900	900	0
10/29/2024 16:02	20603	GRWO_T2	5	21	16	0.38	0.21	-0.17	0.36	0.38	0	0	0	0	0	0
10/29/2024 16:02	64704	LITI_T1	0	0	0	0	0	0	0.39	0.38	1	1	0	600	600	0
10/29/2024 16:04	20603	GRWO_T2	5	21	16	0.38	0.21	-0.17	0.36	0.38	0	0	0	0	0	0
10/29/2024 16:05	64402	LAND_T2	0	0	0	0	0	0	-0.24	-0.24	1	1	0	600	600	0
10/29/2024 16:05	64704	LITI_T1	0	0	0	0	0	0	0.39	0.38	1	1	0	600	600	0
10/29/2024 16:06	15601	NSTR_T2	3	4	1	1.23	0.9	-0.33	0	0	0	0	0	0	0	0
10/29/2024 16:06	15603	NSTR_T2	5	10	5	0.1	0.21	0.11	0	0	0	0	0	0	0	0
10/29/2024 16:06	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 16:07	55405	SHER_T1	31	31	0	1.44	1.46	0.02	0	0	0	0	0	0	0	0
10/29/2024 16:07	55401	SHER_T1	22	28	6	0.17	0.18	0.01	0	0	0	0	0	0	0	0
10/29/2024 16:09	65207	PRIN_T4	4	1	-3	0.28	0.8	0.52	0	0	0	0	0	0	0	0
10/29/2024 16:09	65206	PRIN_T4	1	0	-1	2.4	0	-2.4	0	0	0	0	0	0	0	0
10/29/2024 16:09	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 16:11	43104	SMIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/29/2024 16:11	43102	SMIL_T2	6	6	0	0.97	0.63	-0.34	-0.13	-0.29	0	0	0	0	0	0
10/29/2024 16:11	43106	SMIL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/29/2024 16:11	43103	SMIL_T2	22	21	-1	0.85	0.66	-0.19	0	0	0	0	0	0	0	0
10/29/2024 16:11	43105	SMIL_T2	19	17	-2	0.36	0.25	-0.11	0	0	0	0	0	0	0	0
10/29/2024 16:22	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 16:26	64402	LAND_T2	0	0	0	0	0	0	-0.13	-0.2	1	1	0	600	600	0
10/29/2024 16:27	15603	NSTR_T2	7	10	3	0.13	0.21	0.08	0	0	0	0	0	0	0	0
10/29/2024 16:27	15601	NSTR_T2	3	4	1	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
10/29/2024 16:29	10602	BLGL_T2	0	0	0	0	0	0	-0.09	-0.06	0	0	0	0	0	0
10/29/2024 16:33	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
10/29/2024 16:33	63801	HEMP_T1	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
10/29/2024 16:57	62105	ELAN_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
10/29/2024 16:57	62106	ELAN_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
10/29/2024 17:00	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 17:00	64204	KINZ_T1	4	1	-3	0.4	0.7	0.3	0	0	0	0	0	0	0	0
10/29/2024 17:00	64203	KINZ_T1	0	0	0	0	0	0	0.08	0.37	1	0	-1	600	0	-600
10/29/2024 17:00	64201	KINZ_T1	7	5	-2	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
10/29/2024 17:00	64202	KINZ_T1	3	3	0	1.1	0.77	-0.33	0	0	0	0	0	0	0	0
10/29/2024 17:01	64204	KINZ_T1	4	1	-3	0.4	0.7	0.3	0	0	0	0	0	0	0	0
10/29/2024 17:01	64201	KINZ_T1	7	5	-2	0.36	0.28	-0.08	-0.33	-0.42	2	2	0	1200	1200	0
10/29/2024 17:01	64202	KINZ_T1	3	3	0	1.1	0.77	-0.33	0	0	0	0	0	0	0	0
10/29/2024 17:17	44505	HAMI_T2	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
10/29/2024 17:17	44502	HAMI_T2	1	1	0	3.1	2.8	-0.3	0	0	0	0	0	0	0	0
10/29/2024 17:49	52004	LING_T2	2	2	0	5.9	5.9	0	0.03	0.03	0	0	0	0	0	0
10/29/2024 17:49	52002	LING_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
10/29/2024 17:49	52006	LING_T2	2	2	0	0.95	0.85	-0.1	0	0	0	0	0	0	0	0
10/29/2024 19:08	24206	PROV_T4	1	0	-1	5.5	0	-5.5	0	0	0	0	0	0	0	0
10/29/2024 19:08	24202	PROV_T4	1	1	0	2.3	0	-2.3	0	0	1	1	0	1200	1200	0
10/29/2024 19:15	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 19:19	28703	HAML_T2	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
10/29/2024 19:19	28704	HAML_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/29/2024 19:22	23201	HIRU_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
10/29/2024 19:24	25503	MADI_T1	108	139	31	0.36	0.51	0.15	-1.05	-1.06	0	0	0	0	0	0
10/29/2024 19:24	24603	VARD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 19:24	24602	VARD_T2	1	5	4	1.6	0.48	-1.12	0	0	0	0	0	0	0	0
10/29/2024 19:24	25501	MADI_T1	3	2	-1	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
10/29/2024 19:31	17802	GILB_T1	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
10/29/2024 19:31	21206	ECAR_T2	1	1	0	7.2	7.7	0.5	0.07	0.02	0	0	0	0	0	0
10/29/2024 19:31	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 19:35	15703	TANN_T2	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
10/29/2024 19:35	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
10/29/2024 19:38	25402	LAHA_T2	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
10/29/2024 19:38	17805	GILB_T2	0	0	0	0	0	0	-0.14	-0.2	0	0	0	0	0	0
10/29/2024 19:39	17805	GILB_T2	0	0	0	0	0	0	-0.14	-0.2	0	0	0	0	0	0
10/29/2024 19:40	17901	BART_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 19:41	17802	GILB_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
10/29/2024 19:41	23202	HIRU_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
10/29/2024 19:41	17901	BART_T1	0	0	0	0	0	0	1.25	1.24	1	1	0	1200	1200	0
10/29/2024 19:41	29402	BELT_T1	1	1	0	7	7.5	0.5	0	0	0	0	0	0	0	0
10/29/2024 19:41	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/29/2024 19:42	10805	CHHI_T2	1	1	0	8.2	7.7	-0.5	-1.25	-1.26	1	1	0	600	600	0
10/29/2024 19:42	29402	BELT_T1	1	1	0	7	7.5	0.5	0	0	0	0	0	0	0	0
10/29/2024 19:42	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/29/2024 19:43	20201	JERM_T1	0	0	0	0	0	0	83.96	83.96	1	1	0	1200	1200	0
10/29/2024 19:43	17901	BART_T1	0	0	0	0	0	0	1.25	1.24	1	1	0	1200	1200	0
10/29/2024 19:44	29402	BELT_T1	1	1	0	7	7.5	0.5	0	0	0	0	0	0	0	0
10/29/2024 19:44	14802	TREI_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
10/29/2024 19:44	23203	HIRU_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
10/29/2024 19:45	20403	ASHF_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
10/29/2024 19:45	20401	ASHF_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
10/29/2024 19:45	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
10/29/2024 19:45	15703	TANN_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
10/29/2024 19:45	20603	GRWO_T2	15	24	9	0.19	0.27	0.08	0.34	0.31	0	0	0	0	0	0
10/29/2024 19:46	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 19:46	23001	SAJO_T1	0	0	0	0	0	0	-0.04	-0.1	0	0	0	0	0	0
10/29/2024 19:47	14801	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 19:47	14802	TREI_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
10/29/2024 19:48	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
10/29/2024 19:48	15203	SFAR_T2	0	0	0	0	0	0	-1.28	-1.31	0	0	0	0	0	0
10/29/2024 19:48	13701	SCHN_T2	0	0	0	0	0	0	-0.18	-0.18	1	1	0	600	600	0
10/29/2024 19:48	16504	STRO_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
10/29/2024 19:48	15703	TANN_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
10/29/2024 19:49	14705	TREX_T1	0	0	0	0	0	0	-0.4	-0.44	0	0	0	0	0	0
10/29/2024 19:49	14706	TREX_T1	1	1	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
10/29/2024 19:49	12206	FOGE_T2	0	1	1	0	0	0	-1.29	-1.23	2	2	0	2100	2100	0
10/29/2024 19:49	23203	HIRU_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
10/29/2024 19:50	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
10/29/2024 19:50	14801	TREI_T2	0	1	1	0	0.1	0.1	0.37	0.32	0	0	0	0	0	0
10/29/2024 19:50	15703	TANN_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
10/29/2024 19:51	45303	WBER_T2	5	9	4	1.96	1.21	-0.75	0	0	0	0	0	0	0	0
10/29/2024 19:51	67605	WARW_T1	2	11	9	0.5	0.38	-0.12	0	0	0	0	0	0	0	0
10/29/2024 19:51	48902	FOSP_T2	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0	0
10/29/2024 19:51	15203	SFAR_T2	0	0	0	0	0	0	-1.31	-1.3	0	0	0	0	0	0
10/29/2024 19:51	14801	TREI_T2	0	1	1	0	0.1	0.1	0.32	0.35	0	0	0	0	0	0
10/29/2024 19:51	16902	MECK_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
10/29/2024 19:51	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/29/2024 19:51	10801	CHHI_T1	0	0	0	0	0	0	-1.68	-1.65	2	2	0	1500	1500	0
10/29/2024 19:51	29402	BELT_T1	1	1	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
10/29/2024 19:51	48901	FOSP_T2	2	3	1	0.1	0.13	0.03	0.24	0.21	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/29/2024 19:51	45302	WBER_T2	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
10/29/2024 19:52	43402	BENT_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	900	900	0
10/29/2024 19:52	15203	SFAR_T2	0	0	0	0	0	0	-1.31	-1.3	0	0	0	0	0	0
10/29/2024 19:52	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 19:52	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 19:52	46002	BERW_T2	0	0	0	0	0	0	-1.22	-0.22	1	0	-1	900	0	-900
10/29/2024 19:53	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/29/2024 19:53	14802	TREI_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
10/29/2024 19:53	14801	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 19:53	10105	ALLE_T3	6	3	-3	0.95	0	-0.95	0	0	0	0	0	0	0	0
10/29/2024 19:53	46004	BERW_T2	0	0	0	0	0	0	-0.36	-0.47	0	0	0	0	0	0
10/29/2024 19:53	11604	CEAL_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 19:53	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 19:53	46101	MACI_T2	2	2	0	0.1	0.3	0.2	-0.58	-0.55	1	1	0	1200	1200	0
10/29/2024 19:54	11604	CEAL_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 19:54	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 19:54	10105	ALLE_T3	6	3	-3	0.95	0	-0.95	0	0	0	0	0	0	0	0
10/29/2024 19:54	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/29/2024 19:55	13001	NBET_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
10/29/2024 19:55	20401	ASHF_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
10/29/2024 19:55	20403	ASHF_T2	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
10/29/2024 19:56	46206	DANV_T2	0	0	0	0	0	0	1.85	1.84	2	2	0	2100	2100	0
10/29/2024 19:56	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 19:56	22901	HARW_T1	0	0	0	0	0	0	-0.54	-0.52	1	1	0	1200	1200	0
10/29/2024 19:56	62604	ENGL_T1	0	0	0	0	0	0	0.19	0.13	1	1	0	600	600	0
10/29/2024 19:56	22905	HARW_T1	3	1	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/29/2024 19:57	14802	TREI_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
10/29/2024 19:57	14203	EALL_T1	0	0	0	0	0	0	0.83	0.9	0	0	0	0	0	0
10/29/2024 19:57	14801	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 19:57	16101	BING_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
10/29/2024 19:57	16102	BING_T2	8	16	8	0.25	0.32	0.07	0	0	0	0	0	0	0	0
10/29/2024 19:57	48302	ORWI_T2	2	2	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
10/29/2024 19:57	15203	SFAR_T2	0	0	0	0	0	0	-1.31	-1.3	0	0	0	0	0	0
10/29/2024 19:58	10801	OHHI_T1	0	0	0	0	0	0	-1.68	-1.65	2	2	0	1500	1500	0
10/29/2024 19:58	16101	BING_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
10/29/2024 19:58	15203	SFAR_T2	0	0	0	0	0	0	-1.31	-1.3	0	0	0	0	0	0
10/29/2024 19:58	46602	LACR_T1	0	0	0	0	0	0	-0.16	-0.21	0	0	0	0	0	0
10/29/2024 19:58	17804	GILB_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
10/29/2024 19:58	44802	EDAN_T2	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
10/29/2024 19:58	20603	GRWO_T2	15	24	9	0.19	0.27	0.08	0.31	0.37	0	0	0	0	0	0
10/29/2024 19:58	43801	SWIL_T1	2	2	0	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
10/29/2024 19:58	43802	SWIL_T1	0	0	0	0	0	0	-0.25	-0.26	1	1	0	600	600	0
10/29/2024 19:58	16102	BING_T2	8	16	8	0.25	0.32	0.07	0	0	0	0	0	0	0	0
10/29/2024 19:58	45901	AUBU_T1	0	0	0	0	0	0	1.66	1.85	0	0	0	0	0	0
10/29/2024 19:59	17002	RIRO_T2	10	17	7	0.14	0.11	-0.03	0.32	0.28	0	0	0	0	0	0
10/29/2024 19:59	40802	EXCH_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
10/29/2024 19:59	46004	BERW_T2	0	0	0	0	0	0	-0.36	-0.47	0	0	0	0	0	0
10/29/2024 19:59	43402	BENT_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	900	900	0
10/29/2024 20:00	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:00	46101	MACI_T2	2	2	0	0.3	0.15	-0.15	-0.58	-0.55	1	1	0	1200	1200	0
10/29/2024 20:00	15203	SFAR_T2	0	0	0	0	0	0	-2.62	-2.6	0	0	0	0	0	0
10/29/2024 20:00	23901	EFMO_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
10/29/2024 20:00	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
10/29/2024 20:00	12206	FOGE_T2	0	1	1	0	0	0	-1.23	-1.21	2	2	0	2100	2100	0
10/29/2024 20:01	20603	GRWO_T2	22	23	1	0.23	0.27	0.04	0.31	0.37	0	0	0	0	0	0
10/29/2024 20:01	44802	EDAN_T2	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
10/29/2024 20:01	43102	SMIL_T2	5	4	-1	0.18	0.18	0	0	0	0	0	0	0	0	0
10/29/2024 20:01	45702	LIND_T2	1	1	0	0.8	1.9	1.1	0	0	0	0	0	0	0	0
10/29/2024 20:01	45701	LIND_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
10/29/2024 20:01	47203	FAXO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/29/2024 20:01	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:01	43103	SMIL_T2	0	5	5	0	0.48	0.48	-1.02	-1.01	0	0	0	0	0	0
10/29/2024 20:01	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:02	48901	FOSP_T2	3	4	1	0.13	0.15	0.02	0.21	0.23	0	0	0	0	0	0
10/29/2024 20:02	15204	SFAR_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
10/29/2024 20:02	13303	ORVI_T1	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
10/29/2024 20:02	43102	SMIL_T2	5	4	-1	0.18	0.18	0	-0.33	-0.32	0	0	0	0	0	0
10/29/2024 20:02	67106	SPRI_T2	0	0	0	0	0	0	-1.23	-1.22	1	1	0	900	900	0
10/29/2024 20:02	48902	FOSP_T2	4	6	2	0.15	0.15	0	0	0	0	0	0	0	0	0
10/29/2024 20:02	64302	LINC_T2	0	0	0	0	0	0	1.02	1.03	0	0	0	0	0	0
10/29/2024 20:02	43103	SMIL_T2	0	5	5	0	0.48	0.48	0	0	0	0	0	0	0	0
10/29/2024 20:02	44802	EDAN_T2	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
10/29/2024 20:02	43104	SMIL_T2	0	0	0	0	0	0	-0.86	-0.87	1	1	0	300	300	0
10/29/2024 20:03	44502	HAMI_T2	1	1	0	3.2	3.4	0.2	-0.91	-0.89	0	0	0	0	0	0
10/29/2024 20:03	48902	FOSP_T2	4	6	2	0.15	0.15	0	0.11	0.09	0	0	0	0	0	0
10/29/2024 20:03	14801	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:03	40601	PIGR_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/29/2024 20:03	67605	WARW_T1	7	15	8	0.39	0.38	-0.01	3.05	2.99	0	0	0	0	0	0
10/29/2024 20:03	48901	FOSP_T2	3	4	1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
10/29/2024 20:03	46206	DANV_T2	0	0	0	0	0	0	1.85	1.84	2	2	0	2100	2100	0
10/29/2024 20:03	40602	PIGR_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
10/29/2024 20:03	14802	TREI_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
10/29/2024 20:03	10903	COOP_T2	0	3	3	0	0.1	0.1	-0.43	-0.42	1	1	0	600	600	0
10/29/2024 20:04	63501	HEID_TBK1-2	1	2	1	1.4	0.8	-0.6	0.47	0.46	0	0	0	0	0	0
10/29/2024 20:04	66902	SHIL_T2	0	0	0	0	0	0	-2.06	-2.09	0	0	0	0	0	0
10/29/2024 20:04	42902	MIDD_T2	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
10/29/2024 20:04	42903	MIDD_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
10/29/2024 20:04	12302	LANA_T2	0	0	0	0	0	0	-1.75	-1.75	2	2	0	1500	1500	0
10/29/2024 20:04	66505	SMAN_T2	3	3	0	0.27	0.43	0.16	0	0	0	0	0	0	0	0
10/29/2024 20:04	10602	BLGL_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
10/29/2024 20:04	46203	DANV_T2	0	0	0	0	0	0	-0.89	-0.89	0	0	0	0	0	0
10/29/2024 20:04	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/29/2024 20:04	48902	FOSP_T2	4	6	2	0.15	0.15	0	0.11	0.09	0	0	0	0	0	0
10/29/2024 20:04	40601	PIGR_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/29/2024 20:04	66504	SMAN_T2	0	0	0	0	0	0	-0.89	-1	0	0	0	0	0	0
10/29/2024 20:04	40101	HUNT_T2	7	12	5	0.31	0.5	0.19	-0.66	-0.71	0	0	0	0	0	0
10/29/2024 20:04	45502	DERR_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
10/29/2024 20:04	48901	FOSP_T2	3	4	1	0.13	0.15	0.02	0.21	0.23	0	0	0	0	0	0
10/29/2024 20:04	40602	PIGR_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
10/29/2024 20:05	59201	THOM_T1	26	55	29	0.59	0.47	-0.12	0	0	0	0	0	0	0	0
10/29/2024 20:05	67502	WEWI_T2	39	161	122	0.13	0.23	0.1	-0.43	-0.52	0	0	0	0	0	0
10/29/2024 20:05	48901	FOSP_T2	3	4	1	0.13	0.15	0.02	0.42	0.46	0	0	0	0	0	0
10/29/2024 20:05	48902	FOSP_T2	4	6	2	0.15	0.15	0	0	0	0	0	0	0	0	0
10/29/2024 20:05	66901	SHIL_T2	0	0	0	0	0	0	-0.36	-0.32	0	0	0	0	0	0
10/29/2024 20:05	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/29/2024 20:05	67605	WARW_T1	7	15	8	0.39	0.38	-0.01	3.05	2.99	0	0	0	0	0	0
10/29/2024 20:05	64201	KINZ_T1	0	2	2	0	0.75	0.75	-0.37	-0.35	2	2	0	1200	1200	0
10/29/2024 20:05	46203	DANV_T2	0	0	0	0	0	0	-0.89	-0.89	0	0	0	0	0	0
10/29/2024 20:05	59202	THOM_T1	337	463	126	0.39	0.44	0.05	0	0	0	0	0	0	0	0
10/29/2024 20:05	43801	SWIL_T1	2	3	1	3.25	2.2	-1.05	0	0	0	0	0	0	0	0
10/29/2024 20:05	43202	MVIL_T2	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
10/29/2024 20:05	62605	ENGL_T1	0	0	0	0	0	0	-0.83	-0.81	0	0	0	0	0	0
10/29/2024 20:05	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:05	66902	SHIL_T2	0	0	0	0	0	0	-1.03	-1.04	0	0	0	0	0	0
10/29/2024 20:05	43103	SMIL_T2	0	5	5	0	0.48	0.48	0	0	0	0	0	0	0	0
10/29/2024 20:05	64204	KINZ_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
10/29/2024 20:05	43102	SMIL_T2	5	4	-1	0.18	0.18	0	0	0	0	0	0	0	0	0
10/29/2024 20:05	46602	LACR_T1	0	0	0	0	0	0	-0.16	-0.21	0	0	0	0	0	0
10/29/2024 20:05	67503	WEWI_T2	1	1	0	8.5	8.8	0.3	0	0	0	0	0	0	0	0
10/29/2024 20:05	40802	EXCH_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
10/29/2024 20:06	60801	BUCK_T1	29	47	18	0.23	0.31	0.08	0	0	0	0	0	0	0	0
10/29/2024 20:06	42903	MIDD_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
10/29/2024 20:06	65001	NEFF_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
10/29/2024 20:06	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:06	67503	WEWI_T2	1	1	0	8.5	8.8	0.3	-0.31	-0.31	0	0	0	0	0	0
10/29/2024 20:06	57401	SPAN_T1	2	2	0	0.6	0.6	0	-0.36	-0.39	1	1	0	600	600	0
10/29/2024 20:06	62607	ENGL_T1	0	0	0	0	0	0	-0.84	-0.86	0	0	0	0	0	0
10/29/2024 20:06	48902	FOSP_T2	4	6	2	0.15	0.15	0	0	0	0	0	0	0	0	0
10/29/2024 20:06	65004	NEFF_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
10/29/2024 20:06	51304	WIND_T2	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
10/29/2024 20:06	40802	EXCH_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
10/29/2024 20:06	54001	SDLE_T1	8	10	2	1.05	1.07	0.02	0	0	0	0	0	0	0	0
10/29/2024 20:06	60803	BUCK_T1	18	25	7	0.23	0.29	0.06	-0.54	-0.56	1	1	0	600	600	0
10/29/2024 20:06	42902	MIDD_T2	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
10/29/2024 20:06	67502	WEWI_T2	39	161	122	0.13	0.23	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:06	48901	FOSP_T2	3	4	1	0.13	0.15	0.02	0.21	0.23	0	0	0	0	0	0
10/29/2024 20:06	65003	NEFF_T2	72	62	-10	0.19	0.15	-0.04	0	0	0	0	0	0	0	0
10/29/2024 20:06	40602	PIGR_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
10/29/2024 20:06	40601	PIGR_T1	1	1	0	0.1	0.1	0	-0.8	-0.75	0	0	0	0	0	0
10/29/2024 20:07	44502	HAMI_T2	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
10/29/2024 20:07	60902	DONG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/29/2024 20:07	48902	FOSP_T2	4	6	2	0.15	0.15	0	0	0	0	0	0	0	0	0
10/29/2024 20:07	43102	SMIL_T2	5	4	-1	0.18	0.18	0	0	0	0	0	0	0	0	0
10/29/2024 20:07	40101	HUNT_T2	7	12	5	0.31	0.5	0.19	-0.71	-0.72	0	0	0	0	0	0
10/29/2024 20:07	45902	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:07	51305	WIND_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
10/29/2024 20:07	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
10/29/2024 20:07	43103	SMIL_T2	0	5	5	0	0.48	0.48	0	0	0	0	0	0	0	0
10/29/2024 20:07	67605	WARW_T1	7	15	8	0.39	0.38	-0.01	5.98	6	0	0	0	0	0	0
10/29/2024 20:07	44505	HAMI_T2	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
10/29/2024 20:07	40601	PIGR_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/29/2024 20:07	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:07	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:07	48901	FOSP_T2	3	4	1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
10/29/2024 20:07	64305	LINC_T1	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
10/29/2024 20:07	67106	SPRI_T2	0	0	0	0	0	0	-1.22	-1.21	1	1	0	900	900	0
10/29/2024 20:07	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/29/2024 20:07	46506	LOHA_T1	3	4	1	3.83	3.03	-0.8	0	0	0	0	0	0	0	0
10/29/2024 20:07	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:07	40602	PIGR_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
10/29/2024 20:07	53501	EVIL_T2	2	2	0	0.45	0.3	-0.15	-0.82	-0.8	1	1	0	600	600	0
10/29/2024 20:07	57201	ROSS_T1	0	0	0	0	0	0	-0.64	-0.67	0	0	0	0	0	0
10/29/2024 20:07	63501	HEID_TBK1-2	1	2	1	1.4	0.8	-0.6	0.46	0.42	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/29/2024 20:07	67603	WARW_T1	0	0	0	0	0	0	-0.32	-0.41	0	0	0	0	0	0
10/29/2024 20:08	57203	ROSS_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
10/29/2024 20:08	65206	PRIN_T4	2	17	15	0.9	0.11	-0.79	0	0	0	0	0	0	0	0
10/29/2024 20:08	44802	EDAN_T2	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
10/29/2024 20:08	65502	MOJO_T2	2	8	6	0.1	0.1	0	0	0	0	0	0	0	0	0
10/29/2024 20:08	65503	MOJO_T2	0	1	1	0	0.1	0.1	-0.39	-0.43	0	0	0	0	0	0
10/29/2024 20:08	63501	HEID_TBK1-2	1	2	1	1.4	0.8	-0.6	0.46	0.42	0	0	0	0	0	0
10/29/2024 20:08	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/29/2024 20:08	65207	PRIN_T4	11	15	4	0.23	0.29	0.06	0	0	2	2	0	1800	1800	0
10/29/2024 20:08	64704	LITI_T1	0	0	0	0	0	0	0.34	0.37	1	1	0	600	600	0
10/29/2024 20:09	59302	MCAL_T1	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
10/29/2024 20:09	67605	WARW_T1	7	15	8	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
10/29/2024 20:09	66703	STRA_T1	102	135	33	0.3	0.36	0.06	-0.32	-0.39	0	0	0	0	0	0
10/29/2024 20:09	59301	MCAL_T1	25	52	27	0.22	0.26	0.04	-1.3	-1.3	0	0	0	0	0	0
10/29/2024 20:09	65601	QVIL_T2	0	5	5	0	0.12	0.12	-0.3	-0.34	0	0	0	0	0	0
10/29/2024 20:09	43104	SMIL_T2	0	0	0	0	0	0	-0.87	-0.84	1	1	0	300	300	0
10/29/2024 20:09	43102	SMIL_T2	5	4	-1	0.18	0.18	0	0	0	0	0	0	0	0	0
10/29/2024 20:09	57201	ROSS_T1	0	0	0	0	0	0	-0.64	-0.67	0	0	0	0	0	0
10/29/2024 20:09	64903	MILL_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
10/29/2024 20:09	67604	WARW_T1	0	0	0	0	0	0	2.15	2.08	0	0	0	0	0	0
10/29/2024 20:09	67401	WAKE_T2	9	10	1	0.12	0.13	0.01	-1.22	-1.18	0	0	0	0	0	0
10/29/2024 20:09	60201	ATGL_T2	124	209	85	0.35	0.3	-0.05	-0.24	-0.28	0	0	0	0	0	0
10/29/2024 20:09	54001	SDLE_T1	8	10	2	1.05	1.07	0.02	0	0	0	0	0	0	0	0
10/29/2024 20:09	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:09	43103	SMIL_T2	0	5	5	0	0.48	0.48	0	0	0	0	0	0	0	0
10/29/2024 20:09	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:09	45702	LIND_T2	1	1	0	0.8	1.9	1.1	-0.68	-0.67	0	0	0	0	0	0
10/29/2024 20:09	65603	QVIL_T2	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
10/29/2024 20:10	67503	WEWI_T2	1	1	0	8.5	8.8	0.3	0	0	0	0	0	0	0	0
10/29/2024 20:10	48902	FOSP_T2	4	6	2	0.15	0.15	0	0	0	0	0	0	0	0	0
10/29/2024 20:10	62105	ELAN_T1	0	2	2	0	0.1	0.1	0.36	0.35	0	0	0	0	0	0
10/29/2024 20:10	65003	NEFF_T2	72	62	-10	0.19	0.15	-0.04	0	0	0	0	0	0	0	0
10/29/2024 20:10	64801	MONE_T2	23	31	8	0.14	0.17	0.03	0.22	0.22	0	0	0	0	0	0
10/29/2024 20:10	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:10	61101	BERK_T5	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:10	54701	NEBL_T1	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
10/29/2024 20:10	67502	WEWI_T2	39	161	122	0.13	0.23	0.1	-0.52	-0.5	0	0	0	0	0	0
10/29/2024 20:10	61103	BERK_T5	0	14	14	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:10	67603	WARW_T1	0	0	0	0	0	0	-0.22	-0.27	0	0	0	0	0	0
10/29/2024 20:10	65206	PRIN_T4	2	17	15	0.9	0.11	-0.79	0	0	0	0	0	0	0	0
10/29/2024 20:10	59201	THOM_T1	26	55	29	0.59	0.47	-0.12	0	0	0	0	0	0	0	0
10/29/2024 20:10	67605	WARW_T1	7	15	8	0.39	0.38	-0.01	2.99	3	0	0	0	0	0	0
10/29/2024 20:10	44801	EDAN_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
10/29/2024 20:10	65207	PRIN_T4	11	15	4	0.23	0.29	0.06	0	0	0	0	0	0	0	0
10/29/2024 20:10	59202	THOM_T1	337	463	126	0.39	0.44	0.05	0	0	0	0	0	0	0	0
10/29/2024 20:10	48901	FOSP_T2	3	4	1	0.13	0.15	0.02	0.23	0.22	0	0	0	0	0	0
10/29/2024 20:10	64802	MONE_T2	157	206	49	0.16	0.2	0.04	0	0	0	0	0	0	0	0
10/29/2024 20:10	62101	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:10	66505	SMAN_T2	3	3	0	0.27	0.43	0.16	0	0	0	0	0	0	0	0
10/29/2024 20:10	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/29/2024 20:10	62607	ENGL_T1	0	0	0	0	0	0	-0.84	-0.86	0	0	0	0	0	0
10/29/2024 20:10	61102	BERK_T5	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:10	63501	HEID_TBK1-2	1	2	1	1.4	0.8	-0.6	0.93	0.85	0	0	0	0	0	0
10/29/2024 20:10	62103	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/29/2024 20:10	62106	ELAN_T1	2	5	3	0.1	0.16	0.06	0	0	0	0	0	0	0	0
10/29/2024 20:10	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:11	65603	QVIL_T2	0	7	7	0	0.11	0.11	0.11	0.1	0	0	0	0	0	0
10/29/2024 20:11	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:11	60803	BUCK_T1	18	25	7	0.23	0.29	0.06	0	0	0	0	0	0	0	0
10/29/2024 20:11	55508	HERS_T2	2	2	0	1.7	1.65	-0.05	-2.64	-2.64	0	0	0	0	0	0
10/29/2024 20:11	58401	MORO_T1	0	0	0	0	0	0	-1.81	-1.76	1	1	0	600	600	0
10/29/2024 20:11	65503	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:11	67602	WARW_T2	0	0	0	0	0	0	3.6	3.63	1	1	0	300	300	0
10/29/2024 20:11	65601	QVIL_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
10/29/2024 20:11	53501	EVIL_T2	2	2	0	0.45	0.3	-0.15	-0.82	-0.8	1	1	0	600	600	0
10/29/2024 20:11	40601	PIGR_T1	1	1	0	0.1	0.1	0	-0.75	-0.81	0	0	0	0	0	0
10/29/2024 20:11	60801	BUCK_T1	29	47	18	0.23	0.31	0.08	-0.25	-0.26	0	0	0	0	0	0
10/29/2024 20:11	62607	ENGL_T1	0	0	0	0	0	0	-0.84	-0.86	0	0	0	0	0	0
10/29/2024 20:11	43103	SMIL_T2	0	5	5	0	0.48	0.48	0	0	0	0	0	0	0	0
10/29/2024 20:11	43104	SMIL_T2	0	0	0	0	0	0	-0.87	-0.84	1	1	0	300	300	0
10/29/2024 20:11	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
10/29/2024 20:11	67502	WEWI_T2	39	161	122	0.13	0.23	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:11	45003	LIME_2	2	1	-1	1.8	3.6	1.8	0.22	0.2	0	0	0	0	0	0
10/29/2024 20:11	43102	SMIL_T2	5	4	-1	0.18	0.18	0	-0.32	-0.33	0	0	0	0	0	0
10/29/2024 20:11	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
10/29/2024 20:11	67605	WARW_T1	7	15	8	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
10/29/2024 20:11	65502	MOJO_T2	2	8	6	0.1	0.1	0	-1.05	-0.94	0	0	0	0	0	0
10/29/2024 20:11	60201	ATGL_T2	124	209	85	0.35	0.3	-0.05	-0.24	-0.28	0	0	0	0	0	0
10/29/2024 20:11	46506	LOHA_T1	3	4	1	3.83	3.03	-0.8	0	0	0	0	0	0	0	0
10/29/2024 20:11	45002	LIME_2	1	1	0	4.7	4.5	-0.2	0	0	0	0	0	0	0	0
10/29/2024 20:11	40602	PIGR_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
10/29/2024 20:11	67503	WEWI_T2	1	1	0	8.5	8.8	0.3	-0.31	-0.31	0	0	0	0	0	0
10/29/2024 20:11	67604	WARW_T1	0	0	0	0	0	0	2.15	2.08	0	0	0	0	0	0
10/29/2024 20:11	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:12	60201	ATGL_T2	124	209	85	0.35	0.3	-0.05	-0.24	-0.28	0	0	0	0	0	0
10/29/2024 20:12	67605	WARW_T1	7	15	8	0.39	0.38	-0.01	2.99	3	0	0	0	0	0	0
10/29/2024 20:12	62103	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/29/2024 20:12	61103	BERK_T5	0	14	14	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
10/29/2024 20:12	62101	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:12	66504	SMAN_T2	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
10/29/2024 20:12	62106	ELAN_T1	2	5	3	0.1	0.16	0.06	-0.03	-0.04	0	0	0	0	0	0
10/29/2024 20:12	66505	SMAN_T2	3	3	0	0.27	0.43	0.16	0	0	0	0	0	0	0	0
10/29/2024 20:12	48901	FOSP_T2	3	4	1	0.13	0.15	0.02	0.23	0.22	0	0	0	0	0	0
10/29/2024 20:12	67501	WEWI_T1	2	0	-2	0.1	0	-0.1	-0.68	-0.68	0	0	0	0	0	0
10/29/2024 20:12	40601	PIGR_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/29/2024 20:12	64602	LEOL_T1	0	0	0	0	0	0	0.12	0.06	0	0	0	0	0	0
10/29/2024 20:12	67401	WAKE_T2	9	10	1	0.12	0.13	0.01	0	0	0	0	0	0	0	0
10/29/2024 20:12	67602	WARW_T2	0	0	0	0	0	0	3.6	3.63	1	1	0	300	300	0
10/29/2024 20:12	67402	WAKE_T2	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
10/29/2024 20:12	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:12	62105	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:12	51301	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:12	64204	KINZ_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
10/29/2024 20:12	66901	SHIL_T2	0	0	0	0	0	0	-0.32	-0.38	0	0	0	0	0	0
10/29/2024 20:12	60801	BUCK_T1	29	47	18	0.23	0.31	0.08	-0.25	-0.26	0	0	0	0	0	0
10/29/2024 20:12	60803	BUCK_T1	18	25	7	0.23	0.29	0.06	0	0	0	0	0	0	0	0
10/29/2024 20:12	61102	BERK_T5	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:12	64201	KINZ_T1	0	2	2	0	0.75	0.75	-0.35	-0.36	2	2	0	1200	1200	0
10/29/2024 20:12	53501	EVIL_T2	2	2	0	0.45	0.3	-0.15	-0.82	-0.8	1	1	0	600	600	0
10/29/2024 20:12	48902	FOSP_T2	4	6	2	0.15	0.15	0	0	0	0	0	0	0	0	0
10/29/2024 20:12	13303	ORVI_T1	0	0	0	0	0	0	0.82	0.84	0	0	0	0	0	0
10/29/2024 20:12	43103	SMIL_T2	0	5	5	0	0.48	0.48	0	0	0	0	0	0	0	0
10/29/2024 20:12	43102	SMIL_T2	5	4	-1	0.18	0.18	0	-0.64	-0.66	0	0	0	0	0	0
10/29/2024 20:12	67103	SPRI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:12	40602	PIGR_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
10/29/2024 20:12	61101	BERK_T5	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:13	67605	WARW_T1	7	15	8	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
10/29/2024 20:13	59202	THOM_T1	337	463	126	0.39	0.44	0.05	0	0	0	0	0	0	0	0
10/29/2024 20:13	67103	SPRI_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
10/29/2024 20:13	59201	THOM_T1	26	55	29	0.59	0.47	-0.12	0	0	0	0	0	0	0	0
10/29/2024 20:13	60803	BUCK_T1	18	25	7	0.23	0.29	0.06	-1.08	-1.12	2	2	0	1200	1200	0
10/29/2024 20:13	43103	SMIL_T2	0	5	5	0	0.48	0.48	0	0	0	0	0	0	0	0
10/29/2024 20:13	65502	MOJO_T2	2	8	6	0.1	0.1	0	0	0	0	0	0	0	0	0
10/29/2024 20:13	45702	LIND_T2	1	1	0	0.8	1.9	1.1	-0.68	-0.67	0	0	0	0	0	0
10/29/2024 20:13	43102	SMIL_T2	5	4	-1	0.18	0.18	0	0	0	0	0	0	0	0	0
10/29/2024 20:13	60801	BUCK_T1	29	47	18	0.23	0.31	0.08	0	0	0	0	0	0	0	0
10/29/2024 20:13	43104	SMIL_T2	0	0	0	0	0	0	-0.87	-0.84	1	1	0	300	300	0
10/29/2024 20:13	66505	SMAN_T2	3	3	0	0.27	0.43	0.16	0.04	0	1	1	0	900	900	0
10/29/2024 20:13	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:13	67604	WARW_T1	0	0	0	0	0	0	2.15	2.08	0	0	0	0	0	0
10/29/2024 20:13	64902	MILL_T2	0	0	0	0	0	0	-0.42	0.17	0	0	0	0	0	0
10/29/2024 20:13	65503	MOJO_T2	0	1	1	0	0.1	0.1	-0.39	-0.43	0	0	0	0	0	0
10/29/2024 20:13	67603	WARW_T1	0	0	0	0	0	0	-0.22	-0.27	0	0	0	0	0	0
10/29/2024 20:14	67603	WARW_T1	0	0	0	0	0	0	-0.11	-0.14	0	0	0	0	0	0
10/29/2024 20:14	67503	WEWI_T2	1	1	0	8.5	8.8	0.3	-0.62	-0.62	0	0	0	0	0	0
10/29/2024 20:14	64802	MONE_T2	157	206	49	0.16	0.2	0.04	0.07	0.06	0	0	0	0	0	0
10/29/2024 20:14	55405	SHER_T1	31	48	17	1.4	1.15	-0.25	0	0	0	0	0	0	0	0
10/29/2024 20:14	66903	SHIL_T2	0	0	0	0	0	0	-2.16	-2.14	0	0	0	0	0	0
10/29/2024 20:14	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:14	67605	WARW_T1	7	15	8	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
10/29/2024 20:14	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:14	55401	SHER_T1	36	36	0	0.23	0.34	0.11	0	0	0	0	0	0	0	0
10/29/2024 20:14	67602	WARW_T2	0	0	0	0	0	0	3.6	3.63	1	1	0	300	300	0
10/29/2024 20:14	42903	MIDD_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
10/29/2024 20:14	67106	SPRI_T2	0	0	0	0	0	0	-1.22	-1.21	1	1	0	900	900	0
10/29/2024 20:14	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:14	43802	SWIL_T1	0	0	0	0	0	0	-0.26	-0.24	1	1	0	600	600	0
10/29/2024 20:14	43801	SWIL_T1	2	3	1	3.25	2.2	-1.05	0	0	0	0	0	0	0	0
10/29/2024 20:14	41702	LOGA_T2	5	46	41	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:14	55002	NEWP_T1	2	2	0	0.25	0.3	0.05	-0.27	-0.26	0	0	0	0	0	0
10/29/2024 20:14	62605	ENGL_T1	0	0	0	0	0	0	-0.81	-0.84	0	0	0	0	0	0
10/29/2024 20:14	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:14	45802	HEIS_T2	46	43	-3	1.4	1	-0.4	0.21	0.23	0	0	0	0	0	0
10/29/2024 20:14	64801	MONE_T2	23	31	8	0.14	0.17	0.03	0	0	0	0	0	0	0	0
10/29/2024 20:14	64301	LINC_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
10/29/2024 20:14	67502	WEWI_T2	39	161	122	0.13	0.23	0.1	-0.52	-0.5	0	0	0	0	0	0
10/29/2024 20:15	64204	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
10/29/2024 20:15	67605	WARW_T1	11	16	5	0.38	0.59	0.21	0	0	0	0	0	0	0	0
10/29/2024 20:15	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:15	67503	WEWI_T2	1	1	0	8.8	8.7	-0.1	0	0	0	0	0	0	0	0
10/29/2024 20:15	44505	HAMI_T2	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
10/29/2024 20:15	64201	KINZ_T1	2	7	5	1.7	0.41	-1.29	0	0	0	0	0	0	0	0
10/29/2024 20:15	40801	EXCH_T2	0	0	0	0	0	0	0.72	0.76	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/29/2024 20:15	46602	LACR_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
10/29/2024 20:15	67601	WARW_T2	0	0	0	0	0	0	-0.45	-0.49	0	0	0	0	0	0
10/29/2024 20:15	43103	SMIL_T2	3	18	15	0.13	0.5	0.37	-1.01	-1.03	0	0	0	0	0	0
10/29/2024 20:15	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:15	60801	BUCK_T1	29	60	31	0.22	0.35	0.13	-0.25	-0.26	0	0	0	0	0	0
10/29/2024 20:15	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:15	63602	LETO_T1	34	75	41	0.1	0.18	0.08	-0.52	-0.59	0	0	0	0	0	0
10/29/2024 20:15	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:15	60803	BUCK_T1	18	25	7	0.19	0.37	0.18	0	0	0	0	0	0	0	0
10/29/2024 20:15	43102	SMIL_T2	4	5	1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
10/29/2024 20:15	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:15	62606	ENGL_T1	0	0	0	0	0	0	-1.04	-1.01	1	1	0	900	900	0
10/29/2024 20:15	67502	WEWI_T2	103	159	56	0.19	0.23	0.04	-0.52	-0.5	0	0	0	0	0	0
10/29/2024 20:15	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:15	64101	REFR_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
10/29/2024 20:15	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/29/2024 20:16	65601	QVIL_T2	0	16	16	0	0.14	0.14	0	0	0	0	0	0	0	0
10/29/2024 20:16	57201	ROSS_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:16	67401	WAKE_T2	6	39	33	0.13	0.15	0.02	-1.22	-1.18	0	0	0	0	0	0
10/29/2024 20:16	52002	LING_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
10/29/2024 20:16	60803	BUCK_T1	18	25	7	0.19	0.37	0.18	-0.54	-0.56	1	1	0	600	600	0
10/29/2024 20:16	53501	EVIL_T2	2	2	0	0.15	0.4	0.25	-0.82	-0.8	1	1	0	600	600	0
10/29/2024 20:16	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:16	67402	WAKE_T2	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
10/29/2024 20:16	65602	QVIL_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
10/29/2024 20:16	65603	QVIL_T2	0	10	10	0	0.16	0.16	0.11	0.1	0	0	0	0	0	0
10/29/2024 20:16	52004	LING_T2	2	2	0	6.35	6.5	0.15	0.09	0.08	0	0	0	0	0	0
10/29/2024 20:16	62605	ENGL_T1	0	0	0	0	0	0	-0.81	-0.84	0	0	0	0	0	0
10/29/2024 20:16	55508	HERS_T2	2	2	0	1.6	1.75	0.15	-2.64	-2.64	0	0	0	0	0	0
10/29/2024 20:16	57203	ROSS_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
10/29/2024 20:16	51304	WIND_T2	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
10/29/2024 20:16	13303	ORVI_T1	0	0	0	0	0	0	0.82	0.84	0	0	0	0	0	0
10/29/2024 20:16	46206	DANV_T2	0	0	0	0	0	0	1.84	1.76	2	2	0	2100	2100	0
10/29/2024 20:16	65604	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/29/2024 20:16	44802	EDAN_T2	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
10/29/2024 20:16	66505	SMAN_T2	0	3	3	0	0.73	0.73	0	0	0	0	0	0	0	0
10/29/2024 20:16	67605	WARW_T1	11	16	5	0.38	0.59	0.21	2.99	3	0	0	0	0	0	0
10/29/2024 20:16	42902	MIDD_T2	0	0	0	0	0	0	-0.44	-0.4	0	0	0	0	0	0
10/29/2024 20:16	44301	BEAV_T2	0	0	0	0	0	0	0.67	0.68	1	1	0	600	600	0
10/29/2024 20:16	42903	MIDD_T2	2	2	0	1.2	1.25	0.05	0	0	0	0	0	0	0	0
10/29/2024 20:16	55002	NEWP_T1	2	3	1	0.3	0.3	0	-0.27	-0.26	0	0	0	0	0	0
10/29/2024 20:16	52006	LING_T2	2	2	0	0.95	1.3	0.35	0	0	0	0	0	0	0	0
10/29/2024 20:16	67106	SPRI_T2	0	0	0	0	0	0	-1.22	-1.21	1	1	0	900	900	0
10/29/2024 20:16	60801	BUCK_T1	29	60	31	0.22	0.35	0.13	0	0	0	0	0	0	0	0
10/29/2024 20:16	67602	WARW_T2	0	0	0	0	0	0	7.2	7.26	2	2	0	600	600	0
10/29/2024 20:17	57403	SPAN_T1	0	9	9	0	0.17	0.17	0	0	0	0	0	0	0	0
10/29/2024 20:17	64901	MILL_T1	0	11	11	0	0.13	0.13	0	0	0	0	0	0	0	0
10/29/2024 20:17	42902	MIDD_T2	0	0	0	0	0	0	-0.89	-0.79	0	0	0	0	0	0
10/29/2024 20:17	43103	SMIL_T2	3	18	15	0.13	0.5	0.37	-1.01	-1.03	0	0	0	0	0	0
10/29/2024 20:17	63501	HEID_TBK1-2	1	2	1	1.2	1.05	-0.15	0.46	0.42	0	0	0	0	0	0
10/29/2024 20:17	54001	SDLE_T1	9	22	13	1.08	0.6	-0.48	0	0	0	0	0	0	0	0
10/29/2024 20:17	55001	NEWP_T1	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
10/29/2024 20:17	67603	WARW_T1	0	0	0	0	0	0	-0.11	-0.14	0	0	0	0	0	0
10/29/2024 20:17	66505	SMAN_T2	0	3	3	0	0.73	0.73	0	0	0	0	0	0	0	0
10/29/2024 20:17	64402	LAND_T2	0	0	0	0	0	0	-0.34	-0.44	1	1	0	600	600	0
10/29/2024 20:17	64704	LITI_T1	0	0	0	0	0	0	0.34	0.37	1	1	0	600	600	0
10/29/2024 20:17	64904	MILL_T1	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
10/29/2024 20:17	55508	HERS_T2	2	2	0	1.6	1.75	0.15	0	0	0	0	0	0	0	0
10/29/2024 20:17	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:17	54601	SUMM_T2	9	5	-4	0.36	0.18	-0.18	0	0	0	0	0	0	0	0
10/29/2024 20:17	67605	WARW_T1	11	16	5	0.38	0.59	0.21	0	0	0	0	0	0	0	0
10/29/2024 20:17	54603	SUMM_T2	0	0	0	0	0	0	-1.33	-0.43	1	1	0	900	900	0
10/29/2024 20:17	55002	NEWP_T1	2	3	1	0.3	0.3	0	0	0	0	0	0	0	0	0
10/29/2024 20:17	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:17	45802	HEGI_T2	42	48	6	0.95	1.47	0.52	0.21	0.23	0	0	0	0	0	0
10/29/2024 20:17	54701	NEBL_T1	3	4	1	0.1	0.38	0.28	0	0	0	0	0	0	0	0
10/29/2024 20:17	43102	SMIL_T2	4	5	1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
10/29/2024 20:17	67602	WARW_T2	0	0	0	0	0	0	3.6	3.63	1	1	0	300	300	0
10/29/2024 20:17	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:17	53501	EVIL_T2	2	2	0	0.15	0.4	0.25	-0.82	-0.8	1	1	0	600	600	0
10/29/2024 20:17	42903	MIDD_T2	2	2	0	1.2	1.25	0.05	0	0	0	0	0	0	0	0
10/29/2024 20:17	57401	SPAN_T1	2	2	0	0.55	0.8	0.25	-0.36	-0.39	1	1	0	600	600	0
10/29/2024 20:17	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:17	66502	SMAN_T2	0	0	0	0	0	0	-0.05	0.02	0	0	0	0	0	0
10/29/2024 20:18	67602	WARW_T2	0	0	0	0	0	0	3.6	3.63	1	1	0	300	300	0
10/29/2024 20:18	60801	BUCK_T1	29	60	31	0.22	0.35	0.13	0	0	0	0	0	0	0	0
10/29/2024 20:18	55503	HERS_T1	0	0	0	0	0	0	-1.73	-1.73	0	0	0	0	0	0
10/29/2024 20:18	63501	HEID_TBK1-2	1	2	1	1.2	1.05	-0.15	0.46	0.42	0	0	0	0	0	0
10/29/2024 20:18	67401	WAKE_T2	6	39	33	0.13	0.15	0.02	-1.22	-1.18	0	0	0	0	0	0
10/29/2024 20:18	55507	HERS_T1	42	24	-18	0.35	0.26	-0.09	0	0	0	0	0	0	0	0
10/29/2024 20:18	54001	SDLE_T1	9	22	13	1.08	0.6	-0.48	0	0	0	0	0	0	0	0
10/29/2024 20:18	54601	SUMM_T2	9	5	-4	0.36	0.18	-0.18	-3.03	-3.04	2	2	0	2100	2100	0
10/29/2024 20:18	46501	LOHA_T1	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
10/29/2024 20:18	55501	HERS_T1	52	52	0	0.8	0.49	-0.31	0	0	0	0	0	0	0	0
10/29/2024 20:18	44802	EDAN_T2	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
10/29/2024 20:18	67501	WEWI_T1	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
10/29/2024 20:18	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
10/29/2024 20:18	42903	MIDD_T2	2	2	0	1.2	1.25	0.05	0	0	0	0	0	0	0	0
10/29/2024 20:18	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:18	42902	MIDD_T2	0	0	0	0	0	0	-0.44	-0.4	0	0	0	0	0	0
10/29/2024 20:18	46503	LOHA_T1	3	4	1	3.83	3.23	-0.6	0	0	0	0	0	0	0	0
10/29/2024 20:18	44301	BEAV_T2	0	0	0	0	0	0	0.67	0.68	1	1	0	600	600	0
10/29/2024 20:18	57205	ROSS_T1	0	0	0	0	0	0	-1.02	-1.01	1	1	0	900	900	0
10/29/2024 20:18	57201	ROSS_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:18	60803	BUCK_T1	18	25	7	0.19	0.37	0.18	0	0	0	0	0	0	0	0
10/29/2024 20:19	65604	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/29/2024 20:19	64204	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
10/29/2024 20:19	65601	QVIL_T2	0	16	16	0	0.14	0.14	0	0	0	0	0	0	0	0
10/29/2024 20:19	64801	MONE_T2	24	36	12	0.13	0.19	0.06	0	0	0	0	0	0	0	0
10/29/2024 20:19	64802	MONE_T2	46	305	259	0.14	0.23	0.09	0.07	0.06	0	0	0	0	0	0
10/29/2024 20:19	40802	EXCH_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
10/29/2024 20:19	64203	KINZ_T1	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
10/29/2024 20:19	57402	SPAN_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
10/29/2024 20:19	63801	HEMP_T1	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
10/29/2024 20:19	63804	HEMP_T1	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
10/29/2024 20:19	65603	QVIL_T2	0	10	10	0	0.16	0.16	0.11	0.1	0	0	0	0	0	0
10/29/2024 20:19	57201	ROSS_T1	0	2	2	0	0.1	0.1	-0.64	-0.67	0	0	0	0	0	0
10/29/2024 20:19	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
10/29/2024 20:19	64303	LINC_T1	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
10/29/2024 20:19	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:19	64201	KINZ_T1	2	7	5	1.7	0.41	-1.29	0	0	0	0	0	0	0	0
10/29/2024 20:19	57702	PAXT_T1	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
10/29/2024 20:19	67602	WARW_T2	0	0	0	0	0	0	3.6	3.63	1	1	0	300	300	0
10/29/2024 20:19	65602	QVIL_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
10/29/2024 20:19	65801	RTWN_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/29/2024 20:19	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:19	65804	RTWN_T1	0	0	0	0	0	0	-0.08	-0.05	1	1	0	600	600	0
10/29/2024 20:19	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:19	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:20	60801	BUCK_T1	29	60	31	0.22	0.35	0.13	0	0	0	0	0	0	0	0
10/29/2024 20:20	65602	QVIL_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
10/29/2024 20:20	67602	WARW_T2	0	0	0	0	0	0	7.2	7.26	2	2	0	600	600	0
10/29/2024 20:20	62605	ENGL_T1	0	0	0	0	0	0	-0.81	-0.84	0	0	0	0	0	0
10/29/2024 20:20	51302	WIND_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
10/29/2024 20:20	54001	SDLE_T1	9	22	13	1.08	0.6	-0.48	0	0	0	0	0	0	0	0
10/29/2024 20:20	60803	BUCK_T1	18	25	7	0.19	0.37	0.18	-0.54	-0.56	1	1	0	600	600	0
10/29/2024 20:20	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.29	0	0	0	0	0	0
10/29/2024 20:20	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:20	55408	SHER_T2	1	1	0	4	4.2	0.2	0	0	0	0	0	0	0	0
10/29/2024 20:20	67605	WARW_T1	11	16	5	0.38	0.59	0.21	2.99	3	0	0	0	0	0	0
10/29/2024 20:20	58401	MORO_T1	0	0	0	0	0	0	-1.81	-1.76	1	1	0	600	600	0
10/29/2024 20:20	54601	SUMM_T2	9	5	-4	0.36	0.18	-0.18	-3.03	-3.04	2	2	0	2100	2100	0
10/29/2024 20:20	65603	QVIL_T2	0	10	10	0	0.16	0.16	0	0	0	0	0	0	0	0
10/29/2024 20:20	67401	WAKE_T2	6	39	33	0.13	0.15	0.02	-1.22	-1.18	0	0	0	0	0	0
10/29/2024 20:20	65604	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/29/2024 20:20	65601	QVIL_T2	0	16	16	0	0.14	0.14	0	0	0	0	0	0	0	0
10/29/2024 20:21	15601	NSTR_T2	3	4	1	0.57	0.6	0.03	0	0	0	0	0	0	0	0
10/29/2024 20:21	57101	SPHI_T2	5	5	0	1.18	1.56	0.38	0	0	0	0	0	0	0	0
10/29/2024 20:21	57106	SPHI_T2	3	3	0	1.23	1.33	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:21	67103	SPRI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:21	50625	CCTY_T2	5	5	0	2.52	2.64	0.12	0	0	0	0	0	0	0	0
10/29/2024 20:21	54001	SDLE_T1	9	22	13	1.08	0.6	-0.48	0	0	0	0	0	0	0	0
10/29/2024 20:21	58401	MORO_T1	0	0	0	0	0	0	-1.76	-1.85	1	1	0	600	600	0
10/29/2024 20:21	15602	NSTR_T2	3	0	-3	6.37	0	-6.37	0	0	0	0	0	0	0	0
10/29/2024 20:21	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:21	58402	MORO_T1	0	0	0	0	0	0	0.37	0.37	1	1	0	900	900	0
10/29/2024 20:21	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:21	59301	MCAL_T1	9	53	44	0.39	0.26	-0.13	-1.3	-1.32	0	0	0	0	0	0
10/29/2024 20:21	57401	SPAN_T1	2	2	0	0.55	0.8	0.25	0	0	0	0	0	0	0	0
10/29/2024 20:21	57104	SPHI_T2	1	1	0	1.1	1	-0.1	-1.24	-1.26	1	1	0	900	900	0
10/29/2024 20:21	50624	CCTY_T2	2	2	0	6.15	5.75	-0.4	0	0	0	0	0	0	0	0
10/29/2024 20:21	57403	SPAN_T1	0	9	9	0	0.17	0.17	-0.1	-0.1	0	0	0	0	0	0
10/29/2024 20:21	15603	NSTR_T2	3	7	4	0.1	0.19	0.09	0	0	0	0	0	0	0	0
10/29/2024 20:21	50623	CCTY_T2	5	5	0	6.04	5.46	-0.58	0	0	0	0	0	0	0	0
10/29/2024 20:21	59302	MCAL_T1	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
10/29/2024 20:22	55002	NEWP_T1	2	3	1	0.3	0.3	0	-0.26	-0.28	0	0	0	0	0	0
10/29/2024 20:22	65503	MOJO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:22	60801	BUCK_T1	29	60	31	0.22	0.35	0.13	-0.26	-0.26	0	0	0	0	0	0
10/29/2024 20:22	44301	BEAV_T2	0	0	0	0	0	0	0.68	0.6	1	1	0	600	600	0
10/29/2024 20:22	54603	SUMM_T2	0	0	0	0	0	0	-0.43	-0.41	1	1	0	900	900	0
10/29/2024 20:22	60803	BUCK_T1	18	25	7	0.19	0.37	0.18	0	0	0	0	0	0	0	0
10/29/2024 20:22	54601	SUMM_T2	9	5	-4	0.36	0.18	-0.18	0	0	0	0	0	0	0	0
10/29/2024 20:22	65502	MOJO_T2	0	109	109	0	0.11	0.11	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/29/2024 20:22	57205	ROSS_T1	0	0	0	0	0	0	-1.01	-1.02	1	1	0	900	900	0
10/29/2024 20:22	57201	ROSS_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:22	57203	ROSS_T1	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
10/29/2024 20:22	55105	WERT_T1	0	0	0	0	0	0	-0.7	-0.7	1	1	0	900	900	0
10/29/2024 20:22	65005	NEFF_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
10/29/2024 20:22	65003	NEFF_T2	62	4	-58	0.15	0.23	0.08	-1.41	-1.3	1	1	0	1200	1200	0
10/29/2024 20:22	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2024 20:23	66505	SMAN_T2	0	3	3	0	0.73	0.73	0	0	0	0	0	0	0	0
10/29/2024 20:23	53501	EVIL_T2	2	2	0	0.15	0.4	0.25	-0.8	-0.75	1	1	0	600	600	0
10/29/2024 20:23	66504	SMAN_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
10/29/2024 20:23	58401	MORO_T1	0	0	0	0	0	0	-3.52	-3.71	2	2	0	1200	1200	0
10/29/2024 20:24	65503	MOJO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:24	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
10/29/2024 20:24	55002	NEWP_T1	2	3	1	0.3	0.3	0	0	0	0	0	0	0	0	0
10/29/2024 20:24	55001	NEWP_T1	0	0	0	0	0	0	-0.42	-0.46	0	0	0	0	0	0
10/29/2024 20:24	65502	MOJO_T2	0	109	109	0	0.11	0.11	-0.94	-0.98	0	0	0	0	0	0
10/29/2024 20:25	64904	MILL_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
10/29/2024 20:25	64901	MILL_T1	0	11	11	0	0.13	0.13	0	0	0	0	0	0	0	0
10/29/2024 20:28	10903	COOP_T2	0	23	23	0	0.15	0.15	-0.44	-0.44	1	1	0	600	600	0
10/29/2024 20:33	15203	SFAR_T2	0	0	0	0	0	0	-1.33	-1.34	0	0	0	0	0	0
10/29/2024 20:42	65203	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/29/2024 20:42	65202	PRIN_T1	1	9	8	0.7	0.18	-0.52	0	0	0	0	0	0	0	0
10/29/2024 20:42	65205	PRIN_T1	2	2	0	4.3	1.05	-3.25	0	0	0	0	0	0	0	0
10/29/2024 20:45	48902	FOSP_T2	7	8	1	0.2	0.21	0.01	0	0	0	0	0	0	0	0
10/29/2024 20:45	48901	FOSP_T2	3	4	1	0.17	0.25	0.08	0.23	0.26	0	0	0	0	0	0
10/29/2024 21:01	14204	EALL_T2	0	0	0	0	0	0	-0.42	-0.5	0	0	0	0	0	0
10/29/2024 21:08	55001	NEWP_T1	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
10/29/2024 21:08	55002	NEWP_T1	2	4	2	0.4	0.45	0.05	0	0	0	0	0	0	0	0
10/29/2024 21:19	67502	WEWI_T2	496	568	72	0.31	0.35	0.04	-0.51	-0.5	0	0	0	0	0	0
10/29/2024 21:19	67503	WEWI_T2	29	67	38	0.48	0.34	-0.14	0	0	0	0	0	0	0	0
10/30/2024 1:00	67503	WEWI_T2	1	1	0	8	8	0	-0.44	-0.46	0	0	0	0	0	0
10/30/2024 8:11	46205	DANV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 8:21	64402	LAND_T2	0	0	0	0	0	0	-0.37	-0.26	1	1	0	600	600	0
10/30/2024 8:23	51204	MTON_T2	0	0	0	0	0	0	-0.47	-0.49	1	1	0	600	600	0
10/30/2024 8:24	15601	NSTR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 8:24	67501	WEWI_T1	0	0	0	0	0	0	-0.63	-0.53	0	0	0	0	0	0
10/30/2024 8:24	67504	WEWI_T1	0	0	0	0	0	0	-0.38	-0.4	1	1	0	900	900	0
10/30/2024 8:29	62605	ENGL_T1	0	7	7	0	0.19	0.19	0	0	0	0	0	0	0	0
10/30/2024 8:29	62607	ENGL_T1	0	0	0	0	0	0	-1.22	-1.2	1	1	0	300	300	0
10/30/2024 8:29	62606	ENGL_T1	0	47	47	0	0.11	0.11	0	0	0	0	0	0	0	0
10/30/2024 8:30	54503	ENOL_T2	0	0	0	0	0	0	-2.3	-2.28	2	2	0	1200	1200	0
10/30/2024 8:30	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/30/2024 8:30	54501	ENOL_T2	3	4	1	0.23	0.48	0.25	0	0	0	0	0	0	0	0
10/30/2024 8:30	54505	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
10/30/2024 8:31	62605	ENGL_T1	4	7	3	0.1	0.24	0.14	0	0	0	0	0	0	0	0
10/30/2024 8:31	62606	ENGL_T1	1	107	106	0.1	0.16	0.06	0	0	0	0	0	0	0	0
10/30/2024 8:31	62607	ENGL_T1	0	1	1	0	0.1	0.1	-2.44	-2.4	2	2	0	600	600	0
10/30/2024 8:32	12002	HATF_T1	1	1	0	3.7	3.7	0	0	0	0	0	0	0	0	0
10/30/2024 8:32	12006	HATF_T1	0	0	0	0	0	0	0.51	0.53	1	1	0	1200	1200	0
10/30/2024 8:36	13503	MCMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/30/2024 8:41	67505	WEWI_T1	0	0	0	0	0	0	-0.05	-0.11	1	1	0	900	900	0
10/30/2024 8:43	67505	WEWI_T1	0	0	0	0	0	0	-0.05	-0.11	1	1	0	900	900	0
10/30/2024 8:46	67103	SPRI_T1	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
10/30/2024 8:46	23901	EFMO_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
10/30/2024 8:49	64902	MILL_T2	0	0	0	0	0	0	-1.64	-1.56	2	2	0	1800	1800	0
10/30/2024 8:49	55408	SHER_T2	1	1	0	3.3	3.7	0.4	0	0	0	0	0	0	0	0
10/30/2024 8:50	15601	NSTR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 8:52	65202	PRIN_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
10/30/2024 8:52	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/30/2024 8:52	65205	PRIN_T1	1	10	9	0.3	0.16	-0.14	0	0	0	0	0	0	0	0
10/30/2024 8:57	67503	WEWI_T2	1	1	0	8.9	9.3	0.4	0	0	0	0	0	0	0	0
10/30/2024 8:57	67502	WEWI_T2	0	37	37	0	0.14	0.14	-0.31	-0.26	0	0	0	0	0	0
10/30/2024 8:58	11903	ETEX_T1	0	0	0	0	0	0	0.34	0.39	0	0	0	0	0	0
10/30/2024 8:58	67502	WEWI_T2	0	37	37	0	0.14	0.14	0	0	0	0	0	0	0	0
10/30/2024 8:58	40504	CRES_T1	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
10/30/2024 8:58	67503	WEWI_T2	1	1	0	8.9	9.3	0.4	0	0	0	0	0	0	0	0
10/30/2024 8:59	40504	CRES_T1	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
10/30/2024 8:59	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
10/30/2024 8:59	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
10/30/2024 9:01	12802	MICK_T1	14	14	0	0.16	0.16	0	-1.27	-1.26	0	0	0	0	0	0
10/30/2024 9:01	12803	MICK_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/30/2024 9:01	40502	CRES_T2	4	17	13	0.13	0.27	0.14	-0.3	-0.33	0	0	0	0	0	0
10/30/2024 9:01	12807	MICK_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
10/30/2024 9:01	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 9:07	15203	SFAR_T2	104	144	40	0.17	0.24	0.07	-2.82	-2.84	0	0	0	0	0	0
10/30/2024 9:08	15203	SFAR_T2	104	144	40	0.17	0.24	0.07	-2.82	-2.84	0	0	0	0	0	0
10/30/2024 9:11	66504	SMAN_T2	0	0	0	0	0	0	-0.47	-0.36	0	0	0	0	0	0
10/30/2024 9:11	15203	SFAR_T2	104	144	40	0.17	0.24	0.07	-1.41	-1.42	0	0	0	0	0	0
10/30/2024 9:11	15204	SFAR_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
10/30/2024 9:12	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.68	0.62	2	2	0	1800	1800	0
10/30/2024 9:12	67605	WARW_T1	4	14	10	0.25	0.65	0.4	0	0	0	0	0	0	0	0
10/30/2024 9:12	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 9:12	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 9:14	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.68	0.62	2	2	0	1800	1800	0
10/30/2024 9:15	44301	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/30/2024 9:15	46004	BERW_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
10/30/2024 9:15	52404	GRPA_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/30/2024 9:15	52403	GRPA_T2	19	13	-6	0.36	0.45	0.09	-0.11	-0.08	0	0	0	0	0	0
10/30/2024 9:15	52402	GRPA_T2	18	9	-9	0.37	0.81	0.44	0	0	0	0	0	0	0	0
10/30/2024 9:19	54203	PENN_T1	18	18	0	1.33	1.36	0.03	0	0	0	0	0	0	0	0
10/30/2024 9:19	54201	PENN_T1	10	10	0	0.85	0.99	0.14	0	0	0	0	0	0	0	0
10/30/2024 9:20	15203	SFAR_T2	142	114	-28	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
10/30/2024 9:21	54206	PENN_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
10/30/2024 9:21	54202	PENN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/30/2024 9:22	54203	PENN_T1	18	18	0	1.33	1.36	0.03	0	0	0	0	0	0	0	0
10/30/2024 9:22	54201	PENN_T1	10	10	0	0.85	0.99	0.14	0	0	0	0	0	0	0	0
10/30/2024 9:23	15603	NSTR_T2	0	0	0	0	0	0	-0.73	-0.7	0	0	0	0	0	0
10/30/2024 9:24	64801	MONE_T2	53	65	12	0.26	0.36	0.1	0.26	0.27	0	0	0	0	0	0
10/30/2024 9:24	54203	PENN_T1	18	18	0	1.33	1.36	0.03	0.19	0.3	0	0	0	0	0	0
10/30/2024 9:24	54201	PENN_T1	10	10	0	0.85	0.99	0.14	0	0	0	0	0	0	0	0
10/30/2024 9:24	64802	MONE_T2	157	182	25	0.22	0.28	0.06	0	0	0	0	0	0	0	0
10/30/2024 9:28	67602	WARW_T2	0	0	0	0	0	0	5.97	5.88	2	2	0	600	600	0
10/30/2024 9:29	67602	WARW_T2	0	0	0	0	0	0	2.98	2.94	1	1	0	300	300	0
10/30/2024 9:29	67103	SPRI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 9:31	14201	EALL_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
10/30/2024 9:32	67602	WARW_T2	0	0	0	0	0	0	2.98	2.94	1	1	0	300	300	0
10/30/2024 9:33	52403	GRPA_T2	11	39	28	0.36	0.29	-0.07	0	0	0	0	0	0	0	0
10/30/2024 9:33	52402	GRPA_T2	6	10	4	0.63	0.76	0.13	-0.81	-0.81	0	0	0	0	0	0
10/30/2024 9:33	52404	GRPA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/30/2024 9:34	54505	ENOL_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
10/30/2024 9:34	52404	GRPA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
10/30/2024 9:34	67602	WARW_T2	0	0	0	0	0	0	2.98	2.94	1	1	0	300	300	0
10/30/2024 9:34	46801	HEPB_T2	3	2	-1	0.67	1	0.33	0	0	0	0	0	0	0	0
10/30/2024 9:34	54506	ENOL_T2	0	0	0	0	0	0	0.42	0.39	1	1	0	600	600	0
10/30/2024 9:34	46803	HEPB_T2	2	2	0	0.1	0.1	0	0.4	0.42	0	0	0	0	0	0
10/30/2024 9:34	54501	ENOL_T2	4	4	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
10/30/2024 9:34	52403	GRPA_T2	11	39	28	0.36	0.29	-0.07	-0.08	-0.05	0	0	0	0	0	0
10/30/2024 9:34	52402	GRPA_T2	6	10	4	0.63	0.76	0.13	0	0	0	0	0	0	0	0
10/30/2024 9:34	54502	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
10/30/2024 9:38	59302	MCAL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 9:38	59301	MCAL_T1	3	9	6	0.9	0.56	-0.34	-1.59	-1.58	1	1	0	600	600	0
10/30/2024 9:39	13704	SCHN_T2	1	1	0	0.1	0.1	0	-0.4	-0.42	0	0	0	0	0	0
10/30/2024 9:39	66903	SHIL_T2	0	1	1	0	0.2	0.2	-2.04	-2.04	0	0	0	0	0	0
10/30/2024 9:40	24801	VALM_T1	0	0	0	0	0	0	-0.28	-0.34	0	0	0	0	0	0
10/30/2024 9:41	54203	PENN_T1	18	18	0	1.31	1.37	0.06	0.3	0.28	0	0	0	0	0	0
10/30/2024 9:41	54201	PENN_T1	10	10	0	0.83	1.03	0.2	0	0	0	0	0	0	0	0
10/30/2024 9:42	64802	MONE_T2	166	164	-2	0.26	0.28	0.02	0	0	0	0	0	0	0	0
10/30/2024 9:42	64801	MONE_T2	63	66	3	0.31	0.34	0.03	0.27	0.26	0	0	0	0	0	0
10/30/2024 9:47	65205	PRIN_T1	2	1	-1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
10/30/2024 9:47	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 9:47	46001	BERW_T1	0	0	0	0	0	0	0.75	0.77	0	0	0	0	0	0
10/30/2024 9:47	65202	PRIN_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/30/2024 9:50	13001	NBET_T2	0	0	0	0	0	0	0.36	0.32	0	0	0	0	0	0
10/30/2024 9:53	64902	MILL_T2	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
10/30/2024 9:54	67502	WEWI_T2	32	15	-17	0.18	0.17	-0.01	-0.22	-0.23	0	0	0	0	0	0
10/30/2024 9:54	66903	SHIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/30/2024 9:54	55002	NEWP_T1	7	8	1	1.27	1.1	-0.17	0	0	0	0	0	0	0	0
10/30/2024 9:54	67503	WEWI_T2	1	1	0	9.4	9.5	0.1	0	0	0	0	0	0	0	0
10/30/2024 9:54	55001	NEWP_T1	18	1	-17	0.23	0.9	0.67	-0.37	-0.35	0	0	0	0	0	0
10/30/2024 9:54	66902	SHIL_T2	0	0	0	0	0	0	-1.05	-1.02	0	0	0	0	0	0
10/30/2024 9:56	67502	WEWI_T2	32	15	-17	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
10/30/2024 9:56	67503	WEWI_T2	1	1	0	9.4	9.5	0.1	-0.29	-0.28	0	0	0	0	0	0
10/30/2024 9:56	67602	WARW_T2	0	0	0	0	0	0	3.06	1.32	1	1	0	300	300	0
10/30/2024 9:56	43304	WATS_T2	0	0	0	0	0	0	-0.56	-0.45	0	0	0	0	0	0
10/30/2024 9:57	67503	WEWI_T2	1	1	0	9.4	9.5	0.1	0	0	0	0	0	0	0	0
10/30/2024 9:57	67502	WEWI_T2	32	15	-17	0.18	0.17	-0.01	-0.22	-0.23	0	0	0	0	0	0
10/30/2024 9:58	67503	WEWI_T2	1	1	0	9.4	9.5	0.1	0	0	0	0	0	0	0	0
10/30/2024 9:58	43304	WATS_T2	0	0	0	0	0	0	-0.56	-0.45	0	0	0	0	0	0
10/30/2024 9:58	67502	WEWI_T2	32	15	-17	0.18	0.17	-0.01	-0.22	-0.23	0	0	0	0	0	0
10/30/2024 10:00	15603	NSTR_T2	1	1	0	0.1	0.4	0.3	-0.71	-0.71	0	0	0	0	0	0
10/30/2024 10:00	64305	LINC_T1	0	0	0	0	0	0	-0.18	-0.25	0	0	0	0	0	0
10/30/2024 10:00	16902	MECK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 10:00	61503	EPET_T1	0	0	0	0	0	0	-0.38	-0.35	0	0	0	0	0	0
10/30/2024 10:00	53501	EVIL_T2	4	3	-1	0.78	0.77	-0.01	-0.35	-0.2	2	2	0	1200	1200	0
10/30/2024 10:00	16102	BING_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/30/2024 10:00	61505	EPET_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
10/30/2024 10:00	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/30/2024 10:00	54501	ENOL_T2	4	4	0	0.4	0.53	0.13	0	0	0	0	0	0	0	0
10/30/2024 10:00	67503	WEWI_T2	1	1	0	9.5	9.4	-0.1	-0.29	-0.28	0	0	0	0	0	0
10/30/2024 10:00	16101	BING_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
10/30/2024 10:00	67502	WEWI_T2	14	8	-6	0.16	0.35	0.19	0	0	0	0	0	0	0	0
10/30/2024 10:00	54505	ENOL_T2	1	2	1	1.3	0.7	-0.6	-1.4	-1.37	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/30/2024 10:00	61502	EPET_T1	1	1	0	0.2	0.2	0	-1.03	-1.07	0	0	0	0	0	0
10/30/2024 10:00	28102	TWLA_T2	0	5	5	0	0.32	0.32	0.16	0.16	0	0	0	0	0	0
10/30/2024 10:00	15601	NSTR_T2	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
10/30/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
10/30/2024 10:01	67503	WEWI_T2	1	1	0	9.5	9.4	-0.1	-0.29	-0.28	0	0	0	0	0	0
10/30/2024 10:01	52402	GRPA_T2	8	15	7	0.93	0.54	-0.39	-0.81	-0.85	0	0	0	0	0	0
10/30/2024 10:01	52404	GRPA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/30/2024 10:01	52403	GRPA_T2	37	184	147	0.28	0.28	0	0	0	0	0	0	0	0	0
10/30/2024 10:01	67502	WEWI_T2	14	8	-6	0.16	0.35	0.19	0	0	0	0	0	0	0	0
10/30/2024 10:05	50501	MECH_T1	4	4	0	1.05	1.33	0.28	0	0	0	0	0	0	0	0
10/30/2024 10:05	50506	MECH_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/30/2024 10:05	50505	MECH_T1	1	1	0	0.1	0.5	0.4	-0.93	-0.91	0	0	0	0	0	0
10/30/2024 10:05	50504	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/30/2024 10:05	50502	MECH_T1	1	1	0	1.9	2.4	0.5	0	0	0	0	0	0	0	0
10/30/2024 10:09	24801	VALM_T1	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
10/30/2024 10:11	67106	SPRI_T2	0	0	0	0	0	0	-1.2	-1.21	1	1	0	900	900	0
10/30/2024 10:11	57205	ROSS_T1	0	3	3	0	0.47	0.47	-0.88	-0.86	1	1	0	900	900	0
10/30/2024 10:12	43304	WATS_T2	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
10/30/2024 10:13	45303	WBER_T2	1	1	0	9.2	8.9	-0.3	0	0	0	0	0	0	0	0
10/30/2024 10:13	46002	BERW_T2	0	2	2	0	0.15	0.15	-1.08	-1.08	1	1	0	900	900	0
10/30/2024 10:14	46002	BERW_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/30/2024 10:14	10801	CHIH_T1	0	1	1	0	0.1	0.1	-0.9	-0.97	1	1	0	900	900	0
10/30/2024 10:14	43304	WATS_T2	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
10/30/2024 10:14	46004	BERW_T2	0	0	0	0	0	0	-0.27	-0.15	0	0	0	0	0	0
10/30/2024 10:16	63501	HEID_TBK1-2	2	3	1	0.65	0.67	0.02	0.1	0.25	2	2	0	1800	1800	0
10/30/2024 10:16	46004	BERW_T2	0	1	1	0	0.1	0.1	-0.54	-0.31	0	0	0	0	0	0
10/30/2024 10:16	46002	BERW_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/30/2024 10:16	23901	EFMO_T2	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
10/30/2024 10:17	45303	WBER_T2	1	1	0	9.1	8.9	-0.2	0	0	0	0	0	0	0	0
10/30/2024 10:18	44203	POIN_T2	0	0	0	0	0	0	-0.2	-0.23	2	2	0	2100	2100	0
10/30/2024 10:20	55001	NEWP_T1	1	21	20	0.9	0.33	-0.57	-0.35	-0.32	0	0	0	0	0	0
10/30/2024 10:20	55002	NEWP_T1	7	10	3	1.13	1.15	0.02	0	0	0	0	0	0	0	0
10/30/2024 10:22	55002	NEWP_T1	7	10	3	1.13	1.15	0.02	-0.23	-0.23	0	0	0	0	0	0
10/30/2024 10:22	55001	NEWP_T1	1	21	20	0.9	0.33	-0.57	0	0	0	0	0	0	0	0
10/30/2024 10:24	55001	NEWP_T1	1	21	20	0.9	0.33	-0.57	0	0	0	0	0	0	0	0
10/30/2024 10:24	57205	ROSS_T1	2	3	1	0.1	0.57	0.47	0	0	0	0	0	0	0	0
10/30/2024 10:24	55002	NEWP_T1	7	10	3	1.13	1.15	0.02	-0.23	-0.23	0	0	0	0	0	0
10/30/2024 10:24	57203	ROSS_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
10/30/2024 10:24	15203	SFAR_T2	30	117	87	0.16	0.24	0.08	-2.67	-2.7	0	0	0	0	0	0
10/30/2024 10:25	66504	SMAN_T2	0	1	1	0	0.3	0.3	-0.95	-0.92	0	0	0	0	0	0
10/30/2024 10:25	15203	SFAR_T2	30	117	87	0.16	0.24	0.08	-2.67	-2.7	0	0	0	0	0	0
10/30/2024 10:25	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 10:25	43801	SWIL_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
10/30/2024 10:25	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/30/2024 10:25	43802	SWIL_T1	0	0	0	0	0	0	-0.28	-0.29	1	1	0	600	600	0
10/30/2024 10:26	55002	NEWP_T1	7	10	3	1.13	1.15	0.02	0	0	0	0	0	0	0	0
10/30/2024 10:26	15204	SFAR_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
10/30/2024 10:26	15203	SFAR_T2	30	117	87	0.16	0.24	0.08	-2.67	-2.7	0	0	0	0	0	0
10/30/2024 10:26	55001	NEWP_T1	1	21	20	0.9	0.33	-0.57	-0.32	-0.32	0	0	0	0	0	0
10/30/2024 10:27	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/30/2024 10:27	66504	SMAN_T2	0	1	1	0	0.3	0.3	-0.48	-0.46	0	0	0	0	0	0
10/30/2024 10:27	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 10:27	15203	SFAR_T2	30	117	87	0.16	0.24	0.08	-1.33	-1.35	0	0	0	0	0	0
10/30/2024 10:28	50623	CCTY_T2	5	5	0	5.8	5.66	-0.14	0	0	0	0	0	0	0	0
10/30/2024 10:28	57205	ROSS_T1	2	3	1	0.1	0.57	0.47	0	0	0	0	0	0	0	0
10/30/2024 10:28	50624	CCTY_T2	2	2	0	6.15	6.1	-0.05	0	0	0	0	0	0	0	0
10/30/2024 10:28	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 10:28	50625	CCTY_T2	6	6	0	2.48	2.43	-0.05	0	0	0	0	0	0	0	0
10/30/2024 10:28	57203	ROSS_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
10/30/2024 10:29	11601	CEAL_T1	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
10/30/2024 10:30	12001	HATF_T1	0	0	0	0	0	0	0.81	0.85	1	1	0	600	600	0
10/30/2024 10:30	12002	HATF_T1	1	1	0	3.5	3.6	0.1	0	0	0	0	0	0	0	0
10/30/2024 10:31	12002	HATF_T1	1	1	0	3.5	3.6	0.1	0	0	0	0	0	0	0	0
10/30/2024 10:31	46801	HEPB_T2	3	3	0	0.83	0.93	0.1	0	0	0	0	0	0	0	0
10/30/2024 10:31	12001	HATF_T1	0	0	0	0	0	0	0.81	0.85	1	1	0	600	600	0
10/30/2024 10:31	46803	HEPB_T2	1	4	3	0.1	0.18	0.08	0.4	0.41	0	0	0	0	0	0
10/30/2024 10:32	12002	HATF_T1	1	1	0	3.5	3.6	0.1	0.21	0.28	1	1	0	1200	1200	0
10/30/2024 10:32	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 10:34	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-3.4	-3.47	2	2	0	1200	1200	0
10/30/2024 10:34	58402	MORO_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
10/30/2024 10:35	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-1.7	-1.74	1	1	0	600	600	0
10/30/2024 10:35	58402	MORO_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
10/30/2024 10:36	25402	LAHA_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
10/30/2024 10:37	58402	MORO_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
10/30/2024 10:37	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-1.74	-1.75	1	1	0	600	600	0
10/30/2024 10:38	64904	MILL_T1	0	1	1	0	0.1	0.1	0.35	0.35	0	0	0	0	0	0
10/30/2024 10:39	58402	MORO_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
10/30/2024 10:39	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-1.74	-1.75	1	1	0	600	600	0
10/30/2024 10:39	58001	WCAR_T1	4	4	0	1.03	1.05	0.02	0	0	0	0	0	0	0	0
10/30/2024 10:39	58003	WCAR_T1	1	1	0	1.1	1.1	0	0.16	0.24	1	1	0	600	600	0
10/30/2024 10:39	13303	ORVI_T1	0	3	3	0	0.1	0.1	0.99	1	0	0	0	0	0	0
10/30/2024 10:42	58001	WCAR_T1	4	4	0	1.03	1.05	0.02	0	0	0	0	0	0	0	0
10/30/2024 10:42	58003	WCAR_T1	1	1	0	1.1	1.1	0	0.16	0.24	1	1	0	600	600	0
10/30/2024 10:43	62605	ENGL_T1	5	4	-1	0.18	0.25	0.07	-0.84	-0.87	0	0	0	0	0	0
10/30/2024 10:43	41602	CLEV_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/30/2024 10:43	62607	ENGL_T1	2	5	3	0.45	0.3	-0.15	-0.84	-0.86	0	0	0	0	0	0
10/30/2024 10:43	53501	EVIL_T2	3	3	0	0.77	0.7	-0.07	-0.25	-0.36	4	4	0	2400	2400	0
10/30/2024 10:43	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 10:43	62606	ENGL_T1	96	106	10	0.18	0.21	0.03	0	0	0	0	0	0	0	0
10/30/2024 10:44	62606	ENGL_T1	96	106	10	0.18	0.21	0.03	-1.14	-1.22	1	1	0	900	900	0
10/30/2024 10:44	53501	EVIL_T2	3	3	0	0.77	0.7	-0.07	-0.25	-0.36	4	4	0	2400	2400	0
10/30/2024 10:44	15203	SFAR_T2	111	153	42	0.21	0.29	0.08	-1.35	-1.31	0	0	0	0	0	0
10/30/2024 10:44	10805	CHIH_T2	1	1	0	7.6	8.5	0.9	-0.44	-0.56	1	1	0	600	600	0
10/30/2024 10:44	62607	ENGL_T1	2	5	3	0.45	0.3	-0.15	-0.84	-0.86	0	0	0	0	0	0
10/30/2024 10:44	62605	ENGL_T1	5	4	-1	0.18	0.25	0.07	0	0	0	0	0	0	0	0
10/30/2024 10:44	41602	CLEV_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/30/2024 10:44	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 10:44	29402	BELT_T1	1	1	0	7.7	7.9	0.2	0	0	0	0	0	0	0	0
10/30/2024 10:44	29401	BELT_T1	0	1	1	0	0.3	0.3	0	0	1	1	0	900	900	0
10/30/2024 10:45	17804	GILB_T2	2	3	1	0.65	0.77	0.12	-0.63	-0.57	0	0	0	0	0	0
10/30/2024 10:45	17805	GILB_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/30/2024 10:45	41602	CLEV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/30/2024 10:45	62601	ENGL_T1	0	0	0	0	0	0	-0.11	-0.18	0	0	0	0	0	0
10/30/2024 10:45	62607	ENGL_T1	5	2	-3	0.3	0.45	0.15	0	0	0	0	0	0	0	0
10/30/2024 10:45	62606	ENGL_T1	103	80	-23	0.22	0.14	-0.08	0	0	0	0	0	0	0	0
10/30/2024 10:45	62605	ENGL_T1	3	3	0	0.27	0.27	0	-0.84	-0.87	0	0	0	0	0	0
10/30/2024 10:45	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 10:46	29401	BELT_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/30/2024 10:46	44902	SCOT_T2	0	0	0	0	0	0	-0.83	-0.78	0	0	0	0	0	0
10/30/2024 10:46	44904	SCOT_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
10/30/2024 10:46	41801	GOCI_T2	4	27	23	0.48	0.24	-0.24	0	0	0	0	0	0	0	0
10/30/2024 10:46	62607	ENGL_T1	5	2	-3	0.3	0.45	0.15	0	0	0	0	0	0	0	0
10/30/2024 10:46	29402	BELT_T1	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
10/30/2024 10:46	41602	CLEV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/30/2024 10:46	62605	ENGL_T1	3	3	0	0.27	0.27	0	-1.68	-1.73	0	0	0	0	0	0
10/30/2024 10:46	62606	ENGL_T1	103	80	-23	0.22	0.14	-0.08	0	0	0	0	0	0	0	0
10/30/2024 10:47	62607	ENGL_T1	5	2	-3	0.3	0.45	0.15	-0.84	-0.86	0	0	0	0	0	0
10/30/2024 10:47	62606	ENGL_T1	103	80	-23	0.22	0.14	-0.08	0	0	0	0	0	0	0	0
10/30/2024 10:47	62605	ENGL_T1	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0	0
10/30/2024 10:48	62605	ENGL_T1	3	3	0	0.27	0.27	0	-0.84	-0.87	0	0	0	0	0	0
10/30/2024 10:48	53501	EVIL_T2	3	2	-1	0.7	0.65	-0.05	-0.12	-0.18	2	2	0	1200	1200	0
10/30/2024 10:48	62604	ENGL_T1	0	0	0	0	0	0	-0.21	-0.15	0	0	0	0	0	0
10/30/2024 10:48	62607	ENGL_T1	5	2	-3	0.3	0.45	0.15	-1.68	-1.72	0	0	0	0	0	0
10/30/2024 10:48	62606	ENGL_T1	103	80	-23	0.22	0.14	-0.08	0	0	0	0	0	0	0	0
10/30/2024 10:49	17802	GILB_T1	3	4	1	0.6	0.78	0.18	0.08	0.04	0	0	0	0	0	0
10/30/2024 10:51	58402	MORO_T1	0	3	3	0	0.13	0.13	-0.11	-0.09	2	2	0	1500	1500	0
10/30/2024 10:54	13303	ORVI_T1	0	3	3	0	0.1	0.1	1	0.99	0	0	0	0	0	0
10/30/2024 10:55	15203	SFAR_T2	110	156	46	0.24	0.3	0.06	-1.31	-1.29	0	0	0	0	0	0
10/30/2024 10:55	15001	BLMO_T1	6	1	-5	0.23	0.5	0.27	0	0	0	0	0	0	0	0
10/30/2024 10:55	15204	SFAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 10:58	15203	SFAR_T2	110	156	46	0.24	0.3	0.06	0	0	0	0	0	0	0	0
10/30/2024 10:58	15204	SFAR_T2	0	1	1	0	0.1	0.1	0.07	0.08	0	0	0	0	0	0
10/30/2024 10:59	15001	BLMO_T1	6	1	-5	0.23	0.5	0.27	0	0	0	0	0	0	0	0
10/30/2024 11:00	44505	HAMI_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
10/30/2024 11:00	44502	HAMI_T2	1	1	0	3	3.2	0.2	0	0	0	0	0	0	0	0
10/30/2024 11:01	44505	HAMI_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
10/30/2024 11:01	17802	GILB_T1	4	4	0	0.63	0.78	0.15	0.04	0.04	0	0	0	0	0	0
10/30/2024 11:01	44502	HAMI_T2	1	1	0	3	3.2	0.2	0	0	0	0	0	0	0	0
10/30/2024 11:03	59301	MCAL_T1	4	4	0	0.63	0.63	0	-1.42	-1.38	1	1	0	600	600	0
10/30/2024 11:06	54206	PENN_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
10/30/2024 11:06	54202	PENN_T2	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/30/2024 11:07	10107	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 11:08	15702	TANN_T2	0	0	0	0	0	0	-0.36	-0.45	0	0	0	0	0	0
10/30/2024 11:08	59202	THOM_T1	2	12	10	0.4	0.32	-0.08	0	0	0	0	0	0	0	0
10/30/2024 11:08	54203	PENN_T1	18	18	0	1.14	1.06	-0.08	0	0	0	0	0	0	0	0
10/30/2024 11:08	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
10/30/2024 11:08	59201	THOM_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
10/30/2024 11:08	54201	PENN_T1	10	10	0	0.81	0.73	-0.08	0	0	0	0	0	0	0	0
10/30/2024 11:09	41902	REED_T1	0	1	1	0	0.2	0.2	0.96	0.96	0	0	0	0	0	0
10/30/2024 11:09	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
10/30/2024 11:09	15702	TANN_T2	0	0	0	0	0	0	-0.36	-0.45	0	0	0	0	0	0
10/30/2024 11:10	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
10/30/2024 11:10	14802	TREI_T2	3	2	-1	0.13	0.25	0.12	0	0	0	0	0	0	0	0
10/30/2024 11:10	14801	TREI_T2	7	9	2	0.31	0.36	0.05	0.62	0.54	0	0	0	0	0	0
10/30/2024 11:10	23001	SAJO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 11:10	15702	TANN_T2	0	0	0	0	0	0	-0.36	-0.45	0	0	0	0	0	0
10/30/2024 11:11	60201	ATGL_T2	4	1	-3	0.25	0.5	0.25	-0.11	-0.04	0	0	0	0	0	0
10/30/2024 11:12	60201	ATGL_T2	4	1	-3	0.25	0.5	0.25	-0.11	-0.04	0	0	0	0	0	0
10/30/2024 11:12	67402	WAKE_T2	0	0	0	0	0	0	1.03	0.36	0	1	1	0	600	600
10/30/2024 11:12	67401	WAKE_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
10/30/2024 11:13	14802	TREI_T2	3	2	-1	0.13	0.25	0.12	0.36	0.34	0	0	0	0	0	0
10/30/2024 11:13	14801	TREI_T2	7	9	2	0.31	0.36	0.05	0	0	0	0	0	0	0	0
10/30/2024 11:14	15204	SFAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/30/2024 11:14	15203	SFAR_T2	151	134	-17	0.29	0.28	-0.01	-1.29	-1.29	0	0	0	0	0	0
10/30/2024 11:15	10801	CHHI_T1	9	7	-2	0.38	0.46	0.08	-1.04	-0.99	1	1	0	900	900	0
10/30/2024 11:15	43301	WATS_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
10/30/2024 11:18	67401	WAKE_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
10/30/2024 11:18	67402	WAKE_T2	0	0	0	0	0	0	1.03	0.36	0	1	1	0	600	600
10/30/2024 11:21	45702	LIND_T2	2	3	1	0.35	0.43	0.08	-0.57	-0.61	0	0	0	0	0	0
10/30/2024 11:24	45702	LIND_T2	2	3	1	0.35	0.43	0.08	-0.61	-0.59	0	0	0	0	0	0
10/30/2024 11:24	15203	SFAR_T2	134	30	-104	0.28	0.22	-0.06	-1.29	-1.31	0	0	0	0	0	0
10/30/2024 11:24	15204	SFAR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/30/2024 11:28	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 11:30	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/30/2024 11:31	46803	HEPB_T2	4	4	0	0.45	0.53	0.08	0	0	0	0	0	0	0	0
10/30/2024 11:31	46801	HEPB_T2	3	7	4	1.03	0.54	-0.49	0.56	0.53	0	0	0	0	0	0
10/30/2024 11:32	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 11:32	46801	HEPB_T2	3	7	4	1.03	0.54	-0.49	0.56	0.53	0	0	0	0	0	0
10/30/2024 11:32	67805	WLAN_T1	0	0	0	0	0	0	-1.61	-1.56	0	0	0	0	0	0
10/30/2024 11:32	46803	HEPB_T2	4	4	0	0.45	0.53	0.08	0	0	0	0	0	0	0	0
10/30/2024 11:32	67804	WLAN_T1	7	9	2	0.4	0.34	-0.06	0	0	0	0	0	0	0	0
10/30/2024 11:33	67106	SPRI_T2	0	0	0	0	0	0	-1.2	-1.19	1	1	0	900	900	0
10/30/2024 11:34	42902	MIDD_T2	4	2	-2	0.43	0.5	0.07	-0.62	-0.43	1	1	0	600	600	0
10/30/2024 11:34	42903	MIDD_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/30/2024 11:36	58401	MORO_T1	0	0	0	0	0	0	-1.74	-1.63	1	1	0	600	600	0
10/30/2024 11:36	58402	MORO_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/30/2024 11:36	42902	MIDD_T2	4	2	-2	0.43	0.5	0.07	-0.62	-0.43	1	1	0	600	600	0
10/30/2024 11:36	42903	MIDD_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/30/2024 11:37	42902	MIDD_T2	4	2	-2	0.43	0.5	0.07	-0.43	-0.48	1	1	0	600	600	0
10/30/2024 11:37	42903	MIDD_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/30/2024 11:38	66505	SMAN_T2	0	0	0	0	0	0	0.73	0.64	1	1	0	900	900	0
10/30/2024 11:38	58401	MORO_T1	0	0	0	0	0	0	-1.74	-1.63	1	1	0	600	600	0
10/30/2024 11:38	66504	SMAN_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/30/2024 11:38	58402	MORO_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
10/30/2024 11:38	66502	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
10/30/2024 11:38	59202	THOM_T1	8	20	12	0.25	0.41	0.16	0	0	0	0	0	0	0	0
10/30/2024 11:38	42902	MIDD_T2	4	2	-2	0.43	0.5	0.07	0	0	0	0	0	0	0	0
10/30/2024 11:38	66501	SMAN_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/30/2024 11:38	42903	MIDD_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
10/30/2024 11:38	59201	THOM_T1	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
10/30/2024 11:39	54602	SUMM_T2	13	16	3	0.44	0.71	0.27	0	0	0	0	0	0	0	0
10/30/2024 11:39	66504	SMAN_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/30/2024 11:39	54601	SUMM_T2	13	13	0	0.85	0.82	-0.03	-4.15	-4.14	2	2	0	2100	2100	0
10/30/2024 11:39	66501	SMAN_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/30/2024 11:39	66502	SMAN_T2	0	1	1	0	0.3	0.3	0.16	0.24	0	0	0	0	0	0
10/30/2024 11:40	59202	THOM_T1	8	20	12	0.25	0.41	0.16	0	0	0	0	0	0	0	0
10/30/2024 11:40	59201	THOM_T1	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
10/30/2024 11:42	67603	WARW_T1	0	1	1	0	0.2	0.2	-0.08	-0.09	0	0	0	0	0	0
10/30/2024 11:42	67605	WARW_T1	7	13	6	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
10/30/2024 11:44	55001	NEWP_T1	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
10/30/2024 11:44	55002	NEWP_T1	10	11	1	0.63	1.11	0.48	0	0	0	0	0	0	0	0
10/30/2024 11:46	14203	EALL_T1	1	0	-1	0.1	0	-0.1	1.05	1.17	0	0	0	0	0	0
10/30/2024 11:47	59201	THOM_T1	1	3	2	1	0.53	-0.47	0	0	0	0	0	0	0	0
10/30/2024 11:47	20603	GRWO_T2	3	6	3	0.23	0.23	0	-1.32	-1.24	2	2	0	1800	1800	0
10/30/2024 11:47	59202	THOM_T1	15	36	21	0.42	0.34	-0.08	0	0	0	0	0	0	0	0
10/30/2024 11:49	53301	GRAT_T1	0	1	1	0	0	0	0	0	2	2	0	900	900	0
10/30/2024 11:50	15203	SFAR_T2	14	22	8	0.31	0.25	-0.06	-1.31	-1.32	0	0	0	0	0	0
10/30/2024 11:50	15204	SFAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 11:52	46001	BERW_T1	1	1	0	0.3	0.1	-0.2	0.76	0.97	0	0	0	0	0	0
10/30/2024 11:53	43401	BENT_T1	2	2	0	0.3	0.8	0.5	-1.23	-1.24	2	2	0	1500	1500	0
10/30/2024 11:53	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 11:53	46002	BERW_T2	3	5	2	0.23	0.26	0.03	0	0	0	0	0	0	0	0
10/30/2024 11:53	46001	BERW_T1	1	1	0	0.3	0.1	-0.2	0.76	0.97	0	0	0	0	0	0
10/30/2024 11:53	46004	BERW_T2	2	2	0	0.6	0.35	-0.25	-0.13	-0.13	0	0	0	0	0	0
10/30/2024 11:55	61703	ELIZ_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/30/2024 11:55	43402	BENT_T1	2	2	0	0.3	0.8	0.5	-1.23	-1.24	2	2	0	1500	1500	0
10/30/2024 11:55	57104	SPHI_T2	3	4	1	1.87	0.57	-1.3	-1.8	-1.8	1	1	0	900	900	0
10/30/2024 11:55	17804	GILB_T2	78	139	61	9.5	0.22	-9.28	-0.11	0	0	0	0	0	0	0
10/30/2024 11:55	57106	SPHI_T2	4	4	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
10/30/2024 11:55	57103	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 11:55	57101	SPHI_T2	6	6	0	1.27	1.27	0	0	0	0	0	0	0	0	0
10/30/2024 11:55	17805	GILB_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/30/2024 11:55	61701	ELIZ_T1	2	2	0	3	3.35	0.35	0.4	0.45	0	0	0	0	0	0
10/30/2024 11:56	46002	BERW_T2	3	5	2	0.23	0.26	0.03	0	0	0	0	0	0	0	0
10/30/2024 11:56	63501	HEID_TBK1-2	3	3	0	0.6	0.73	0.13	0.07	0.16	1	1	0	900	900	0
10/30/2024 11:56	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 11:56	48901	FOSP_T2	0	1	1	0	0.2	0.2	-0.18	-0.18	2	2	0	1200	1200	0
10/30/2024 11:56	46001	BERW_T1	1	1	0	0.3	0.1	-0.2	0.76	0.97	0	0	0	0	0	0
10/30/2024 11:56	46004	BERW_T2	2	2	0	0.6	0.35	-0.25	-0.13	-0.13	0	0	0	0	0	0
10/30/2024 11:56	48902	FOSP_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/30/2024 11:57	48901	FOSP_T2	0	1	1	0	0.2	0.2	-0.09	-0.09	1	1	0	600	600	0
10/30/2024 11:57	45802	HEGI_T2	1	11	10	0.5	0.1	-0.4	1.59	1.4	1	1	0	300	300	0
10/30/2024 11:57	48902	FOSP_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/30/2024 11:59	48902	FOSP_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/30/2024 11:59	40101	HUNT_T2	0	1	1	0	0.3	0.3	-0.41	-0.4	0	0	0	0	0	0
10/30/2024 11:59	65502	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 11:59	45802	HEGI_T2	1	11	10	0.5	0.1	-0.4	1.59	1.4	1	1	0	300	300	0
10/30/2024 11:59	48901	FOSP_T2	0	1	1	0	0.2	0.2	-0.27	-0.27	3	3	0	1800	1800	0
10/30/2024 11:59	65503	MOJO_T2	0	0	0	0	0	0	-0.97	-0.96	1	1	0	900	900	0
10/30/2024 12:00	48902	FOSP_T2	1	1	0	0.3	0.5	0.2	0.66	0.52	0	0	0	0	0	0
10/30/2024 12:00	48901	FOSP_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
10/30/2024 12:01	54504	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
10/30/2024 12:01	54505	ENOL_T2	1	2	1	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
10/30/2024 12:01	54506	ENOL_T2	0	0	0	0	0	0	0.59	0.61	1	1	0	600	600	0
10/30/2024 12:01	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/30/2024 12:01	54501	ENOL_T2	4	4	0	0.38	0.4	0.02	0	0	0	0	0	0	0	0
10/30/2024 12:01	63501	HEID_TBK1-2	3	3	0	0.73	0.67	-0.06	0.07	0.16	1	1	0	900	900	0
10/30/2024 12:03	15603	NSTR_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
10/30/2024 12:03	15601	NSTR_T2	3	3	0	0.4	0.63	0.23	0	0	0	0	0	0	0	0
10/30/2024 12:04	55408	SHER_T2	1	1	0	3	2.9	-0.1	0	0	0	0	0	0	0	0
10/30/2024 12:04	64802	MONE_T2	11	10	-1	0.41	0.42	0.01	0.58	0.52	0	0	0	0	0	0
10/30/2024 12:04	64801	MONE_T2	4	2	-2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/30/2024 12:05	14801	TREI_T2	9	9	0	0.37	0.39	0.02	0	0	0	0	0	0	0	0
10/30/2024 12:05	14802	TREI_T2	1	4	3	0.3	0.2	-0.1	0.38	0.37	0	0	0	0	0	0
10/30/2024 12:05	17805	GILB_T2	2	2	0	0.2	0.3	0.1	-0.04	-0.03	0	0	0	0	0	0
10/30/2024 12:05	17804	GILB_T2	0	10	10	0	0.22	0.22	0	0	0	0	0	0	0	0
10/30/2024 12:06	14802	TREI_T2	1	4	3	0.3	0.2	-0.1	0.37	0.36	0	0	0	0	0	0
10/30/2024 12:06	17805	GILB_T2	2	2	0	0.2	0.3	0.1	-0.04	-0.03	0	0	0	0	0	0
10/30/2024 12:06	17804	GILB_T2	0	10	10	0	0.22	0.22	0	0	0	0	0	0	0	0
10/30/2024 12:06	14801	TREI_T2	9	9	0	0.37	0.39	0.02	0	0	0	0	0	0	0	0
10/30/2024 12:07	14801	TREI_T2	9	9	0	0.37	0.39	0.02	0	0	0	0	0	0	0	0
10/30/2024 12:07	14802	TREI_T2	1	4	3	0.3	0.2	-0.1	0.37	0.36	0	0	0	0	0	0
10/30/2024 12:07	63501	HEID_TBK1-2	3	3	0	0.73	0.67	-0.06	0.16	0.24	1	1	0	900	900	0
10/30/2024 12:08	60801	BUCK_T1	0	4	4	0	0.18	0.18	-0.16	-0.19	0	0	0	0	0	0
10/30/2024 12:08	60803	BUCK_T1	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
10/30/2024 12:08	24901	WHHA_T1	1	1	0	1	1	0	0.43	0.47	0	0	0	0	0	0
10/30/2024 12:09	60803	BUCK_T1	0	6	6	0	0.12	0.12	-0.96	-0.96	2	2	0	1200	1200	0
10/30/2024 12:09	60801	BUCK_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
10/30/2024 12:09	21204	ECAR_T2	1	1	0	0	0	0	-0.7	-0.74	0	0	0	0	0	0
10/30/2024 12:09	21206	ECAR_T2	1	2	1	7.4	7.7	0.3	0	0	0	0	0	0	0	0
10/30/2024 12:10	23901	EFMO_T2	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
10/30/2024 12:10	60801	BUCK_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
10/30/2024 12:10	52403	GRPA_T2	164	71	-93	0.33	0.35	0.02	-0.03	-0.03	0	0	0	0	0	0
10/30/2024 12:10	23902	EFMO_T2	1	2	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
10/30/2024 12:10	45802	HEGI_T2	11	1	-10	0.26	0.1	-0.16	0	0	0	0	0	0	0	0
10/30/2024 12:10	52402	GRPA_T2	69	46	-23	0.4	0.4	0	-0.82	-0.88	0	0	0	0	0	0
10/30/2024 12:10	60803	BUCK_T1	0	6	6	0	0.12	0.12	-0.48	-0.48	1	1	0	600	600	0
10/30/2024 12:10	52401	GRPA_T2	4	4	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/30/2024 12:10	24901	WHHA_T1	1	1	0	1	1	0	0.43	0.47	0	0	0	0	0	0
10/30/2024 12:10	52404	GRPA_T2	3	1	-2	0.23	0.6	0.37	0	0	0	0	0	0	0	0
10/30/2024 12:11	17804	GILB_T2	0	10	10	0	0.22	0.22	0	0	0	0	0	0	0	0
10/30/2024 12:11	52404	GRPA_T2	3	1	-2	0.23	0.6	0.37	0	0	0	0	0	0	0	0
10/30/2024 12:11	17805	GILB_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/30/2024 12:11	60801	BUCK_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
10/30/2024 12:11	52403	GRPA_T2	164	71	-93	0.33	0.35	0.02	0	0	0	0	0	0	0	0
10/30/2024 12:11	52402	GRPA_T2	69	46	-23	0.4	0.4	0	-0.82	-0.88	0	0	0	0	0	0
10/30/2024 12:11	60803	BUCK_T1	0	6	6	0	0.12	0.12	-0.48	-0.48	1	1	0	600	600	0
10/30/2024 12:11	52401	GRPA_T2	4	4	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/30/2024 12:12	60801	BUCK_T1	0	4	4	0	0.18	0.18	-0.16	-0.19	0	0	0	0	0	0
10/30/2024 12:12	21206	ECAR_T2	1	2	1	7.4	7.7	0.3	0.35	0.3	0	0	0	0	0	0
10/30/2024 12:12	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 12:12	60803	BUCK_T1	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
10/30/2024 12:13	60803	BUCK_T1	0	6	6	0	0.12	0.12	-0.48	-0.48	1	1	0	600	600	0
10/30/2024 12:13	60801	BUCK_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
10/30/2024 12:13	14204	EALL_T2	0	0	0	0	0	0	-0.51	-0.48	0	0	0	0	0	0
10/30/2024 12:13	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 12:13	23202	HIRU_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
10/30/2024 12:14	23902	EFMO_T2	1	2	1	0.5	0.55	0.05	-0.44	-0.4	0	0	0	0	0	0
10/30/2024 12:14	52403	GRPA_T2	164	71	-93	0.33	0.35	0.02	-0.03	-0.03	0	0	0	0	0	0
10/30/2024 12:14	52402	GRPA_T2	69	46	-23	0.4	0.4	0	0	0	0	0	0	0	0	0
10/30/2024 12:14	61001	DONV_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
10/30/2024 12:14	52404	GRPA_T2	3	1	-2	0.23	0.6	0.37	0	0	0	0	0	0	0	0
10/30/2024 12:14	52401	GRPA_T2	4	4	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
10/30/2024 12:15	23901	EFMO_T2	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
10/30/2024 12:15	23902	EFMO_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
10/30/2024 12:17	40601	PIGR_T1	111	105	-6	0.29	0.31	0.02	0	0	0	0	0	0	0	0
10/30/2024 12:17	40602	PIGR_T1	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
10/30/2024 12:17	40603	PIGR_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/30/2024 12:17	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 12:18	40601	PIGR_T1	111	105	-6	0.29	0.31	0.02	-0.47	-0.44	0	0	0	0	0	0
10/30/2024 12:18	40602	PIGR_T1	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
10/30/2024 12:18	40603	PIGR_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/30/2024 12:19	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.42	0	0	0	0	0	0
10/30/2024 12:19	40602	PIGR_T1	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
10/30/2024 12:19	40603	PIGR_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/30/2024 12:19	40601	PIGR_T1	111	105	-6	0.29	0.31	0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/30/2024 12:20	40601	PIGR_T1	111	105	-6	0.29	0.31	0.02	0	0	0	0	0	0	0	0
10/30/2024 12:20	40602	PIGR_T1	2	2	0	0.75	0.8	0.05	-1.28	-1.18	2	2	0	1200	1200	0
10/30/2024 12:20	40603	PIGR_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/30/2024 12:20	64101	REFR_T1	0	0	0	0	0	0	-0.54	-0.63	0	0	0	0	0	0
10/30/2024 12:21	64101	REFR_T1	0	0	0	0	0	0	-0.63	-0.6	0	0	0	0	0	0
10/30/2024 12:22	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
10/30/2024 12:22	40603	PIGR_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/30/2024 12:22	40602	PIGR_T1	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
10/30/2024 12:22	40601	PIGR_T1	111	105	-6	0.29	0.31	0.02	0	0	0	0	0	0	0	0
10/30/2024 12:24	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
10/30/2024 12:25	40601	PIGR_T1	111	105	-6	0.29	0.31	0.02	-0.44	-0.43	0	0	0	0	0	0
10/30/2024 12:25	40603	PIGR_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
10/30/2024 12:25	40602	PIGR_T1	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
10/30/2024 12:26	54505	ENOL_T2	2	2	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
10/30/2024 12:26	54501	ENOL_T2	4	4	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/30/2024 12:26	11301	EMMA_T1	0	0	0	0	0	0	-0.86	-0.83	0	0	0	0	0	0
10/30/2024 12:26	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
10/30/2024 12:26	54504	ENOL_T2	1	0	-1	0.5	0	-0.5	-1.18	-1.17	1	1	0	600	600	0
10/30/2024 12:26	11303	EMMA_T1	3	3	0	0.5	0.63	0.13	0	0	0	0	0	0	0	0
10/30/2024 12:29	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 12:29	23203	HIRU_T2	0	0	0	0	0	0	-0.06	-0.01	0	0	0	0	0	0
10/30/2024 12:32	23203	HIRU_T2	0	0	0	0	0	0	-0.06	-0.01	0	0	0	0	0	0
10/30/2024 12:32	23201	HIRU_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/30/2024 12:36	43304	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/30/2024 12:38	43304	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/30/2024 12:40	24702	FLND_T2	2	2	0	0.15	0.1	-0.05	0.9	0.92	1	1	0	1200	1200	0
10/30/2024 12:46	59301	MCAL_T1	5	3	-2	0.76	0.63	-0.13	-1.62	-1.42	1	1	0	600	600	0
10/30/2024 12:47	45702	LIND_T2	5	4	-1	0.76	0.7	-0.06	0	0	0	0	0	0	0	0
10/30/2024 12:47	67503	WEWI_T2	1	1	0	9.1	9	-0.1	0	0	0	0	0	0	0	0
10/30/2024 12:47	67502	WEWI_T2	6	6	0	0.4	0.43	0.03	-0.24	-0.24	0	0	0	0	0	0
10/30/2024 12:47	45701	LIND_T2	0	0	0	0	0	0	-1.63	-1.54	0	0	0	0	0	0
10/30/2024 12:48	67502	WEWI_T2	6	6	0	0.4	0.43	0.03	-0.24	-0.24	0	0	0	0	0	0
10/30/2024 12:48	67503	WEWI_T2	1	1	0	9.1	9	-0.1	0	0	0	0	0	0	0	0
10/30/2024 12:49	67503	WEWI_T2	1	1	0	9.1	9	-0.1	0	0	0	0	0	0	0	0
10/30/2024 12:49	61101	BERK_T5	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/30/2024 12:49	61103	BERK_T5	1	1	0	0.1	0.3	0.2	0.03	0.03	0	0	0	0	0	0
10/30/2024 12:49	67502	WEWI_T2	6	6	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
10/30/2024 12:50	67502	WEWI_T2	6	6	0	0.4	0.43	0.03	-0.24	-0.24	0	0	0	0	0	0
10/30/2024 12:50	67503	WEWI_T2	1	1	0	9.1	9	-0.1	0	0	0	0	0	0	0	0
10/30/2024 12:54	10805	OHH_T2	1	1	0	9	8.4	-0.6	-0.68	-1.23	1	1	0	600	1200	600
10/30/2024 12:55	45502	DERR_T2	0	1	1	0	0	0	0.15	0.15	1	1	0	300	300	0
10/30/2024 12:56	63801	HEMP_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/30/2024 12:56	52404	GRPA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/30/2024 12:56	52401	GRPA_T2	2	2	0	0.1	0.2	0.1	-0.4	-0.42	0	0	0	0	0	0
10/30/2024 12:56	52402	GRPA_T2	87	20	-67	0.29	0.51	0.22	0	0	0	0	0	0	0	0
10/30/2024 12:56	52403	GRPA_T2	25	22	-3	0.48	0.46	-0.02	0	0	0	0	0	0	0	0
10/30/2024 12:56	63804	HEMP_T1	1	1	0	6	6	0	1.07	1.06	0	0	0	0	0	0
10/30/2024 12:56	63803	HEMP_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/30/2024 12:59	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
10/30/2024 12:59	63801	HEMP_T1	1	1	0	0.8	0.5	-0.3	0.29	0.62	0	0	0	0	0	0
10/30/2024 12:59	63803	HEMP_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/30/2024 13:04	13701	SCHN_T2	7	7	0	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
10/30/2024 13:04	13704	SCHN_T2	3	2	-1	0.23	0.25	0.02	-0.35	-0.36	0	0	0	0	0	0
10/30/2024 13:05	13704	SCHN_T2	3	2	-1	0.23	0.25	0.02	0	0	0	0	0	0	0	0
10/30/2024 13:05	13701	SCHN_T2	7	7	0	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
10/30/2024 13:06	13701	SCHN_T2	7	7	0	0.36	0.33	-0.03	-0.07	-0.06	1	1	0	600	600	0
10/30/2024 13:06	13704	SCHN_T2	3	2	-1	0.23	0.25	0.02	0	0	0	0	0	0	0	0
10/30/2024 13:07	67401	WAKE_T2	0	2	2	0	0.4	0.4	-0.97	-1	0	0	0	0	0	0
10/30/2024 13:07	67402	WAKE_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
10/30/2024 13:16	10702	CATA_T2	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/30/2024 13:16	10707	CATA_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
10/30/2024 13:16	10705	CATA_T2	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
10/30/2024 13:16	28403	HART_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/30/2024 13:16	10701	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 13:22	54601	SUMM_T2	10	11	1	0.51	0.53	0.02	-4.02	-3.98	2	2	0	2100	2100	0
10/30/2024 13:22	54602	SUMM_T2	11	14	3	0.25	0.3	0.05	0	0	0	0	0	0	0	0
10/30/2024 13:28	52402	GRPA_T2	12	49	37	0.76	0.35	-0.41	-0.85	-0.89	0	0	0	0	0	0
10/30/2024 13:28	52401	GRPA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/30/2024 13:28	52403	GRPA_T2	13	18	5	0.59	0.44	-0.15	0	0	0	0	0	0	0	0
10/30/2024 13:35	13905	SEID_T1	0	0	0	0	0	0	0.28	0.24	0	0	0	0	0	0
10/30/2024 13:41	20403	ASHF_T2	7	6	-1	0.51	0.48	-0.03	0.29	0.36	0	0	0	0	0	0
10/30/2024 13:41	20401	ASHF_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
10/30/2024 13:42	20403	ASHF_T2	7	6	-1	0.51	0.48	-0.03	0.29	0.36	0	0	0	0	0	0
10/30/2024 13:42	20401	ASHF_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
10/30/2024 13:59	46101	MACI_T2	0	0	0	0	0	0	-1.16	-1.11	2	2	0	2400	2400	0
10/30/2024 14:03	54701	NEBL_T1	7	9	2	0.57	0.86	0.29	0	0	0	0	0	0	0	0
10/30/2024 14:10	44801	EDAN_T2	1	3	2	1.9	0.35	-1.55	-0.41	-0.43	0	0	0	0	0	0
10/30/2024 14:10	10903	COOP_T2	2	4	2	0.55	0.4	-0.15	0	0.06	1	1	0	600	600	0
10/30/2024 14:15	52402	GRPA_T2	32	129	97	0.36	0.49	0.13	-0.84	-0.86	0	0	0	0	0	0
10/30/2024 14:15	52403	GRPA_T2	18	31	13	0.71	0.77	0.06	0	0	0	0	0	0	0	0
10/30/2024 14:15	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/30/2024 14:15	52401	GRPA_T2	4	6	2	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
10/30/2024 14:27	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 14:28	64201	KINZ_T1	0	0	0	0	0	0	-0.41	-0.46	4	4	0	2100	2100	0
10/30/2024 14:28	64202	KINZ_T1	3	3	0	0.53	0.47	-0.06	0	0	0	0	0	0	0	0
10/30/2024 14:28	64204	KINZ_T1	47	26	-21	0.41	0.42	0.01	0	0	0	0	0	0	0	0
10/30/2024 14:31	59301	MCAL_T1	30	55	25	0.36	0.33	-0.03	-1.47	-1.48	1	1	0	600	600	0
10/30/2024 14:32	59301	MCAL_T1	30	55	25	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
10/30/2024 14:33	59301	MCAL_T1	30	55	25	0.36	0.33	-0.03	-1.47	-1.48	1	1	0	600	600	0
10/30/2024 14:33	65205	PRIN_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
10/30/2024 14:34	65206	PRIN_T4	1	0	-1	2.6	0	-2.6	0	0	0	0	0	0	0	0
10/30/2024 14:34	65207	PRIN_T4	2	19	17	1.05	0.15	-0.9	0	0	2	2	0	1800	1800	0
10/30/2024 14:35	59301	MCAL_T1	30	55	25	0.36	0.33	-0.03	-1.47	-1.48	1	1	0	600	600	0
10/30/2024 14:35	65206	PRIN_T4	1	0	-1	2.6	0	-2.6	0	0	0	0	0	0	0	0
10/30/2024 14:35	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 14:35	65207	PRIN_T4	2	19	17	1.05	0.15	-0.9	0	0	0	0	0	0	0	0
10/30/2024 14:38	10101	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 14:38	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 14:47	52403	GRPA_T2	31	31	0	0.7	0.8	0.1	0.07	0.06	0	0	0	0	0	0
10/30/2024 14:47	52404	GRPA_T2	1	3	2	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
10/30/2024 14:47	52402	GRPA_T2	127	280	153	0.49	0.46	-0.03	0	0	0	0	0	0	0	0
10/30/2024 14:47	52401	GRPA_T2	5	99	94	0.46	0.19	-0.27	0	0	0	0	0	0	0	0
10/30/2024 14:48	54701	NEBL_T1	9	9	0	0.86	0.7	-0.16	0	0	0	0	0	0	0	0
10/30/2024 15:07	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 15:09	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 15:14	63302	GREE_T1	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
10/30/2024 15:14	63305	GREE_T1	2	8	6	0.3	0.34	0.04	-2.03	-1.96	1	1	0	900	900	0
10/30/2024 15:15	63305	GREE_T1	8	8	0	0.34	0.25	-0.09	-2.03	-1.96	1	1	0	900	900	0
10/30/2024 15:15	61801	EELI_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/30/2024 15:15	61802	EELI_T2	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
10/30/2024 15:18	13302	ORVI_T2	0	0	0	0	0	0	1.6	1.57	0	0	0	0	0	0
10/30/2024 15:18	55002	NEWP_T1	6	7	1	0.6	0.59	-0.01	-0.2	-0.2	0	0	0	0	0	0
10/30/2024 15:19	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 15:20	16301	ALPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 15:33	13704	SCHN_T2	5	6	1	0.2	0.22	0.02	0	0	0	0	0	0	0	0
10/30/2024 15:33	13701	SCHN_T2	2	0	-2	0.1	0	-0.1	-0.02	-0.04	1	1	0	600	600	0
10/30/2024 15:35	17002	RIRO_T2	1	5	4	0.4	0.2	-0.2	0.59	0.47	0	0	0	0	0	0
10/30/2024 15:36	13701	SCHN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/30/2024 15:36	13704	SCHN_T2	5	6	1	0.2	0.22	0.02	-0.8	-0.8	0	0	0	0	0	0
10/30/2024 15:38	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 15:38	55103	WERT_T1	1	1	0	4.8	4.7	-0.1	0	0	0	0	0	0	0	0
10/30/2024 15:38	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 15:45	52401	GRPA_T2	1	22	21	0.5	0.16	-0.34	-0.35	-0.36	0	0	0	0	0	0
10/30/2024 15:45	52402	GRPA_T2	84	177	93	0.37	0.5	0.13	0	0	0	0	0	0	0	0
10/30/2024 15:45	52404	GRPA_T2	1	4	3	1.1	0.63	-0.47	0	0	0	0	0	0	0	0
10/30/2024 15:45	52403	GRPA_T2	14	16	2	0.52	0.71	0.19	0	0	0	0	0	0	0	0
10/30/2024 15:47	52404	GRPA_T2	1	4	3	1.1	0.63	-0.47	0	0	0	0	0	0	0	0
10/30/2024 15:47	52403	GRPA_T2	14	16	2	0.52	0.71	0.19	0.11	0.1	0	0	0	0	0	0
10/30/2024 15:47	52402	GRPA_T2	84	177	93	0.37	0.5	0.13	0	0	0	0	0	0	0	0
10/30/2024 15:47	52401	GRPA_T2	1	22	21	0.5	0.16	-0.34	0	0	0	0	0	0	0	0
10/30/2024 15:49	59201	THOM_T1	40	43	3	0.4	0.39	-0.01	0	0	0	0	0	0	0	0
10/30/2024 15:49	59202	THOM_T1	494	494	0	0.37	0.4	0.03	0	0	0	0	0	0	0	0
10/30/2024 15:51	52403	GRPA_T2	14	16	2	0.52	0.71	0.19	0	0	0	0	0	0	0	0
10/30/2024 15:51	43801	SWIL_T1	2	2	0	3.25	3.2	-0.05	0	0	0	0	0	0	0	0
10/30/2024 15:51	52402	GRPA_T2	84	177	93	0.37	0.5	0.13	0	0	0	0	0	0	0	0
10/30/2024 15:51	52401	GRPA_T2	1	22	21	0.5	0.16	-0.34	0	0	0	0	0	0	0	0
10/30/2024 15:51	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 15:51	52404	GRPA_T2	1	4	3	1.1	0.63	-0.47	0.74	0.7	0	0	0	0	0	0
10/30/2024 16:05	44702	MUNC_T2	3	5	2	0.17	0.18	0.01	0	0	0	0	0	0	0	0
10/30/2024 16:05	44701	MUNC_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/30/2024 16:05	44703	MUNC_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
10/30/2024 16:06	15703	TANN_T2	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
10/30/2024 16:06	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
10/30/2024 16:08	40302	TAMA_T3	4	4	0	0.18	0.25	0.07	0	0	0	0	0	0	0	0
10/30/2024 16:08	40301	TAMA_T3	1	1	0	0	0	0	0.18	0.17	3	3	0	2700	2700	0
10/30/2024 16:08	60102	COCA_T1	0	0	0	0	0	0	-0.29	-0.32	2	2	0	1200	1200	0
10/30/2024 16:15	14201	EALL_T1	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
10/30/2024 16:17	52401	GRPA_T2	22	2	-20	0.16	0.45	0.29	0	0	0	0	0	0	0	0
10/30/2024 16:17	52402	GRPA_T2	177	144	-33	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
10/30/2024 16:17	52404	GRPA_T2	4	3	-1	0.63	0.67	0.04	0	0	0	0	0	0	0	0
10/30/2024 16:17	52403	GRPA_T2	16	13	-3	0.71	0.78	0.07	0.04	0.06	0	0	0	0	0	0
10/30/2024 16:18	54001	SDLE_T1	160	85	-75	0.29	0.35	0.06	0	0	0	0	0	0	0	0
10/30/2024 16:19	54001	SDLE_T1	160	85	-75	0.29	0.35	0.06	0	0	0	0	0	0	0	0
10/30/2024 16:22	54001	SDLE_T1	160	85	-75	0.29	0.35	0.06	0	0	0	0	0	0	0	0
10/30/2024 16:23	54001	SDLE_T1	160	85	-75	0.29	0.35	0.06	0	0	0	0	0	0	0	0
10/30/2024 16:27	40702	FFLD_T1	86	97	11	0.22	0.2	-0.02	-0.72	-0.63	1	1	0	1200	1200	0
10/30/2024 16:27	40701	FFLD_T1	32	32	0	0.57	0.54	-0.03	0	0	0	0	0	0	0	0
10/30/2024 16:27	40703	FFLD_T1	4	4	0	0.33	0.38	0.05	0	0	0	0	0	0	0	0
10/30/2024 16:28	64201	KINZ_T1	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
10/30/2024 16:28	64202	KINZ_T1	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
10/30/2024 16:28	64204	KINZ_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
10/30/2024 16:29	64201	KINZ_T1	1	2	1	0.5	0.3	-0.2	-0.54	-0.6	3	3	0	1500	1500	0
10/30/2024 16:29	20802	LOPO_T1	1	1	0	0.2	0.2	0	-0.6	-0.6	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/30/2024 16:29	64204	KINZ_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
10/30/2024 16:29	64202	KINZ_T1	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
10/30/2024 16:31	64204	KINZ_T1	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
10/30/2024 16:31	64201	KINZ_T1	1	1	0	0.3	0	-0.3	-0.54	-0.6	3	3	0	1500	1500	0
10/30/2024 16:31	64202	KINZ_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/30/2024 16:35	52502	PROG_T2	0	0	0	0	0	0	-0.68	-0.68	1	1	0	900	900	0
10/30/2024 16:36	52502	PROG_T2	0	0	0	0	0	0	-0.68	-0.67	1	1	0	900	900	0
10/30/2024 16:39	54001	SDLE_T1	60	165	105	0.41	0.27	-0.14	0	0	0	0	0	0	0	0
10/30/2024 16:45	55001	NEWP_T1	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
10/30/2024 16:45	55002	NEWP_T1	3	4	1	0.5	0.38	-0.12	0	0	0	0	0	0	0	0
10/30/2024 16:50	54001	SDLE_T1	80	200	120	0.36	0.29	-0.07	0	0	0	0	0	0	0	0
10/30/2024 17:03	20802	LOPO_T1	1	1	0	0.2	0.2	0	-0.6	-0.61	1	1	0	600	600	0
10/30/2024 17:13	46101	MACI_T2	1	0	-1	0.1	0	-0.1	-0.54	-0.57	1	1	0	1200	1200	0
10/30/2024 17:16	63501	HEID_TBK1-2	2	2	0	0.75	0.55	-0.2	-0.28	-0.27	1	1	0	900	900	0
10/30/2024 17:23	67604	WARW_T1	0	0	0	0	0	0	-0.13	-0.09	0	0	0	0	0	0
10/30/2024 17:27	43801	SWIL_T1	93	56	-37	0.32	0.33	0.01	0	0	0	0	0	0	0	0
10/30/2024 17:27	43802	SWIL_T1	0	0	0	0	0	0	-0.2	-0.21	1	1	0	600	600	0
10/30/2024 18:09	64204	KINZ_T1	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
10/30/2024 18:09	64201	KINZ_T1	1	0	-1	0.7	0	-0.7	-1.1	0.81	6	2	-4	3000	600	-2400
10/30/2024 18:09	64202	KINZ_T1	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/30/2024 18:10	64204	KINZ_T1	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
10/30/2024 18:10	64201	KINZ_T1	1	0	-1	0.7	0	-0.7	-0.55	0.41	3	1	-2	1500	300	-1200
10/30/2024 18:10	64202	KINZ_T1	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/30/2024 18:15	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 18:15	64202	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
10/30/2024 18:15	64204	KINZ_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
10/30/2024 19:47	17002	RIRO_T2	7	11	4	0.11	0.14	0.03	0.38	0.35	0	0	0	0	0	0
10/30/2024 19:52	17805	GILB_T2	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
10/30/2024 19:52	17804	GILB_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 19:53	17805	GILB_T2	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
10/30/2024 19:53	15203	SFAR_T2	0	0	0	0	0	0	-1.27	-1.26	0	0	0	0	0	0
10/30/2024 19:53	17804	GILB_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 19:54	48901	FOSP_T2	0	1	1	0	0	0	0.23	0.22	0	0	0	0	0	0
10/30/2024 19:54	62604	ENGL_T1	0	0	0	0	0	0	-0.91	-0.3	1	0	-1	600	0	-600
10/30/2024 19:55	15702	TANN_T2	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
10/30/2024 19:55	15703	TANN_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
10/30/2024 19:55	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 19:56	11603	CEAL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 19:56	46002	BERW_T2	0	0	0	0	0	0	-1.2	-1.19	1	1	0	900	900	0
10/30/2024 19:56	11601	CEAL_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 19:56	29402	BELT_T1	1	1	0	7.1	7.4	0.3	0	0	0	0	0	0	0	0
10/30/2024 19:57	40602	PIGR_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
10/30/2024 19:57	40601	PIGR_T1	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
10/30/2024 19:58	14802	TREI_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
10/30/2024 19:59	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 19:59	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/30/2024 19:59	45701	LIND_T2	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
10/30/2024 19:59	13704	SCHN_T2	5	6	1	0.26	0.27	0.01	-0.48	-0.47	0	0	0	0	0	0
10/30/2024 19:59	45702	LIND_T2	4	61	57	0.63	0.22	-0.41	0	0	0	0	0	0	0	0
10/30/2024 19:59	40101	HUNT_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/30/2024 19:59	13701	SCHN_T2	3	14	11	0.1	0.11	0.01	0	0	0	0	0	0	0	0
10/30/2024 20:00	23001	SAJO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:00	43301	WATS_T2	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
10/30/2024 20:00	46001	BERW_T1	0	1	1	0	0.1	0.1	0.6	0.57	0	0	0	0	0	0
10/30/2024 20:00	61102	BERK_T5	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/30/2024 20:00	43302	WATS_T2	4	4	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
10/30/2024 20:00	61103	BERK_T5	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
10/30/2024 20:01	59301	MCAL_T1	60	88	28	0.38	0.63	0.25	-1.27	-1.26	0	0	0	0	0	0
10/30/2024 20:01	43402	BENT_T1	0	0	0	0	0	0	-1.49	-1.5	2	2	0	1500	1500	0
10/30/2024 20:01	48901	FOSP_T2	0	1	1	0	0	0	0.23	0.22	0	0	0	0	0	0
10/30/2024 20:01	59302	MCAL_T1	2	2	0	1	1.3	0.3	0	0	0	0	0	0	0	0
10/30/2024 20:02	60201	ATGL_T2	44	116	72	0.18	0.28	0.1	-0.1	-0.2	0	0	0	0	0	0
10/30/2024 20:02	46004	BERW_T2	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
10/30/2024 20:02	54203	PENN_T1	18	18	0	1.16	1.45	0.29	0	0	0	0	0	0	0	0
10/30/2024 20:02	54201	PENN_T1	10	10	0	0.65	0.92	0.27	0	0	0	0	0	0	0	0
10/30/2024 20:03	43802	SWIL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 20:03	43801	SWIL_T1	71	141	70	0.32	0.36	0.04	0	0	0	0	0	0	0	0
10/30/2024 20:03	61505	EPET_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
10/30/2024 20:04	54506	ENOL_T2	0	0	0	0	0	0	0.68	0.69	1	1	0	600	600	0
10/30/2024 20:04	54505	ENOL_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
10/30/2024 20:04	54701	NEBL_T1	7	8	1	1.27	1.49	0.22	0	0	0	0	0	0	0	0
10/30/2024 20:04	54501	ENOL_T2	3	4	1	0.23	0.4	0.17	0	0	0	0	0	0	0	0
10/30/2024 20:05	54001	SDLE_T1	286	347	61	0.46	0.53	0.07	0	0	0	0	0	0	0	0
10/30/2024 20:06	45502	DEER_T2	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
10/30/2024 20:06	59202	THOM_T1	587	664	77	0.72	0.95	0.23	0	0	0	0	0	0	0	0
10/30/2024 20:06	59201	THOM_T1	90	115	25	0.58	0.74	0.16	0	0	0	0	0	0	0	0
10/30/2024 20:06	45303	WBER_T2	1	1	0	9.7	9.5	-0.2	0	0.03	0	0	0	0	0	0
10/30/2024 20:07	59302	MCAL_T1	2	2	0	1	1.3	0.3	0	0	0	0	0	0	0	0
10/30/2024 20:07	59301	MCAL_T1	60	88	28	0.38	0.63	0.25	-1.26	-1.26	0	0	0	0	0	0
10/30/2024 20:09	59201	THOM_T1	90	115	25	0.58	0.74	0.16	0	0	0	0	0	0	0	0
10/30/2024 20:09	59202	THOM_T1	587	664	77	0.72	0.95	0.23	0	0	0	0	0	0	0	0
10/30/2024 20:10	10101	ALLE_T3	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
10/30/2024 20:10	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:10	10205	ALLE_T3	0	1	1	0	4.7	4.7	0	0	0	0	0	0	0	0
10/30/2024 20:11	11601	CEAL_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 20:11	11603	CEAL_T1	1	0	-1	2.7	0	-2.7	0	0	0	0	0	0	0	0
10/30/2024 20:12	55002	NEWP_T1	5	6	1	0.46	0.75	0.29	-0.26	-0.25	0	0	0	0	0	0
10/30/2024 20:12	10805	CHHI_T2	1	1	0	7.9	7.7	-0.2	-1.72	-1.13	1	0	-1	600	0	-600
10/30/2024 20:13	10101	ALLE_T3	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
10/30/2024 20:13	12001	HATF_T1	0	0	0	0	0	0	0.99	1.01	1	1	0	600	600	0
10/30/2024 20:13	12005	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 20:13	15203	SFAR_T2	0	0	0	0	0	0	-1.26	-1.3	0	0	0	0	0	0
10/30/2024 20:13	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:13	12002	HATF_T1	1	1	0	2.8	2.8	0	0	0	0	0	0	0	0	0
10/30/2024 20:13	10205	ALLE_T3	0	1	1	0	4.7	4.7	0	0	0	0	0	0	0	0
10/30/2024 20:13	14802	TREI_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
10/30/2024 20:13	12004	HATF_T1	4	6	2	0.13	0.15	0.02	0	0	0	0	0	0	0	0
10/30/2024 20:13	11301	EMMA_T1	0	0	0	0	0	0	-0.83	-0.85	0	0	0	0	0	0
10/30/2024 20:14	25402	LAHA_T2	0	0	0	0	0	0	-0.92	-0.89	0	0	0	0	0	0
10/30/2024 20:14	63501	HEID_TBK1-2	1	4	3	0.4	0.45	0.05	0.52	0.54	0	0	0	0	0	0
10/30/2024 20:15	21204	ECAR_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/30/2024 20:15	15702	TANN_T2	0	0	0	0	0	0	-0.92	-0.96	0	0	0	0	0	0
10/30/2024 20:15	24801	VALM_T1	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
10/30/2024 20:15	21206	ECAR_T2	1	1	0	8	8.2	0.2	-0.07	-0.05	0	0	0	0	0	0
10/30/2024 20:15	48902	FOSP_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
10/30/2024 20:15	21202	ECAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:15	40303	TAMA_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 20:15	12005	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/30/2024 20:15	15703	TANN_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
10/30/2024 20:15	40302	TAMA_T3	8	7	-1	0.31	0.32	0.01	0	0	0	0	0	0	0	0
10/30/2024 20:15	14802	TREI_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
10/30/2024 20:15	12002	HATF_T1	1	1	0	2.8	3	0.2	-0.06	-0.05	1	1	0	1200	1200	0
10/30/2024 20:15	20401	ASHF_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
10/30/2024 20:15	16301	ALPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:15	20403	ASHF_T2	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
10/30/2024 20:15	46004	BERW_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
10/30/2024 20:15	40301	TAMA_T3	1	1	0	0	0	0	-0.05	-0.13	3	3	0	2700	2700	0
10/30/2024 20:15	12004	HATF_T1	6	0	-6	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/30/2024 20:15	13905	SEID_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
10/30/2024 20:15	63501	HEID_TBK1-2	2	4	2	0.6	0.5	-0.1	0.52	0.54	0	0	0	0	0	0
10/30/2024 20:15	15203	SFAR_T2	0	0	0	0	0	0	-1.26	-1.3	0	0	0	0	0	0
10/30/2024 20:16	24901	WHHA_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
10/30/2024 20:16	45702	LIND_T2	11	11	0	0.34	0.34	0	-0.67	-0.67	0	0	0	0	0	0
10/30/2024 20:16	67503	WEWI_T2	2	1	-1	4.2	8.7	4.5	0	0	0	0	0	0	0	0
10/30/2024 20:16	23203	HIRU_T2	0	0	0	0	0	0	-0.01	-0.07	0	0	0	0	0	0
10/30/2024 20:16	14801	TREI_T2	0	0	0	0	0	0	0.68	0.6	0	0	0	0	0	0
10/30/2024 20:16	48902	FOSP_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
10/30/2024 20:16	20802	LOPO_T1	1	1	0	0.3	0.4	0.1	-0.6	-0.62	1	1	0	600	600	0
10/30/2024 20:16	15203	SFAR_T2	0	0	0	0	0	0	-2.52	-2.6	0	0	0	0	0	0
10/30/2024 20:16	23202	HIRU_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
10/30/2024 20:16	15204	SFAR_T2	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
10/30/2024 20:16	67502	WEWI_T2	268	213	-55	0.31	0.29	-0.02	-0.41	-0.44	0	0	0	0	0	0
10/30/2024 20:16	52502	PROG_T2	0	0	0	0	0	0	-0.69	-0.7	1	1	0	900	900	0
10/30/2024 20:17	29402	BELT_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
10/30/2024 20:17	44203	POIN_T2	0	0	0	0	0	0	-0.72	-0.7	2	2	0	2100	2100	0
10/30/2024 20:17	24702	FLND_T2	0	0	0	0	0	0	0.34	0.06	1	1	0	1200	1200	0
10/30/2024 20:17	52404	GRPA_T2	14	19	5	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
10/30/2024 20:17	14201	EALL_T1	0	0	0	0	0	0	0.58	0.53	0	0	0	0	0	0
10/30/2024 20:17	52401	GRPA_T2	68	119	51	0.2	0.24	0.04	0	0	0	0	0	0	0	0
10/30/2024 20:17	17802	GILB_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
10/30/2024 20:17	62607	ENGL_T1	0	0	0	0	0	0	-0.76	-0.8	0	0	0	0	0	0
10/30/2024 20:17	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/30/2024 20:17	60801	BUCK_T1	35	41	6	0.22	0.27	0.05	0	0	0	0	0	0	0	0
10/30/2024 20:17	23902	EFMO_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
10/30/2024 20:17	13303	ORVI_T1	0	0	0	0	0	0	0.9	0.88	0	0	0	0	0	0
10/30/2024 20:17	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:17	43402	BENT_T1	0	0	0	0	0	0	-1.5	-0.86	2	1	-1	1500	900	-600
10/30/2024 20:17	52403	GRPA_T2	53	88	35	0.48	0.39	-0.09	0	-0.05	0	0	0	0	0	0
10/30/2024 20:17	10801	CHHI_T1	0	0	0	0	0	0	-1.49	-1.62	2	2	0	1500	1500	0
10/30/2024 20:17	10903	COOP_T2	5	0	-5	0.12	0	-0.12	-0.42	-0.44	1	1	0	600	600	0
10/30/2024 20:17	48901	FOSP_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
10/30/2024 20:17	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:17	15001	BLMO_T1	4	0	-4	0.33	0	-0.33	0	0	0	0	0	0	0	0
10/30/2024 20:17	10101	ALLE_T3	1	0	-1	3.1	0	-3.1	0	0	0	0	0	0	0	0
10/30/2024 20:17	44801	EDAN_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
10/30/2024 20:17	15203	SFAR_T2	0	0	0	0	0	0	-3.78	-3.9	0	0	0	0	0	0
10/30/2024 20:17	46101	MACI_T2	2	0	-2	0.1	0	-0.1	-0.59	-0.58	1	1	0	1200	1200	0
10/30/2024 20:17	60803	BUCK_T1	11	15	4	0.17	0.29	0.12	-0.5	-0.52	1	1	0	600	600	0
10/30/2024 20:17	57203	ROSS_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
10/30/2024 20:17	52402	GRPA_T2	151	218	67	0.6	0.78	0.18	0	0	0	0	0	0	0	0
10/30/2024 20:17	14203	EALL_T1	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
10/30/2024 20:18	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:18	48901	FOSP_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/30/2024 20:18	15203	SFAR_T2	0	0	0	0	0	0	-1.26	-1.3	0	0	0	0	0	0
10/30/2024 20:18	55002	NEWP_T1	6	6	0	0.67	0.92	0.25	0	0	0	0	0	0	0	0
10/30/2024 20:18	13701	SCHN_T2	14	0	-14	0.11	0	-0.11	-0.12	0.56	1	0	-1	600	0	-600
10/30/2024 20:18	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:18	12002	HATF_T1	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
10/30/2024 20:18	24901	WHHA_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
10/30/2024 20:18	13704	SCHN_T2	6	1	-5	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
10/30/2024 20:18	12004	HATF_T1	6	0	-6	0.15	0	-0.15	0	0	0	0	0	0	0	0
10/30/2024 20:18	13302	ORVI_T2	0	0	0	0	0	0	1.53	1.42	0	0	0	0	0	0
10/30/2024 20:18	55001	NEWP_T1	0	0	0	0	0	0	-0.33	-0.3	0	0	0	0	0	0
10/30/2024 20:18	12001	HATF_T1	0	0	0	0	0	0	0.99	1.01	1	1	0	600	600	0
10/30/2024 20:18	44905	SCOT_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/30/2024 20:18	23901	EFMO_T2	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
10/30/2024 20:18	15204	SFAR_T2	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
10/30/2024 20:18	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:18	12005	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/30/2024 20:18	52502	PROG_T2	0	0	0	0	0	0	-0.69	-0.7	1	1	0	900	900	0
10/30/2024 20:19	63501	HEID_TBK1-2	2	4	2	0.6	0.5	-0.1	1.03	1.07	0	0	0	0	0	0
10/30/2024 20:19	15203	SFAR_T2	0	0	0	0	0	0	-2.52	-2.6	0	0	0	0	0	0
10/30/2024 20:19	52401	GRPA_T2	68	119	51	0.2	0.24	0.04	0	0	0	0	0	0	0	0
10/30/2024 20:19	10705	CATA_T2	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
10/30/2024 20:19	23203	HIRU_T2	0	0	0	0	0	0	-0.01	-0.07	0	0	0	0	0	0
10/30/2024 20:19	66505	SMAN_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/30/2024 20:19	23901	EFMO_T2	0	0	0	0	0	0	0.12	0.16	0	0	0	0	0	0
10/30/2024 20:19	66504	SMAN_T2	0	0	0	0	0	0	-0.85	-0.5	0	0	0	0	0	0
10/30/2024 20:19	20802	LOPO_T1	1	1	0	0.3	0.4	0.1	-0.6	-0.62	1	1	0	600	600	0
10/30/2024 20:19	14204	EALL_T2	0	0	0	0	0	0	-0.56	-0.5	0	0	0	0	0	0
10/30/2024 20:19	44905	SCOT_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/30/2024 20:19	52404	GRPA_T2	14	19	5	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
10/30/2024 20:19	59301	MCAL_T1	81	88	7	0.54	0.63	0.09	-1.26	-1.26	0	0	0	0	0	0
10/30/2024 20:19	52402	GRPA_T2	151	218	67	0.6	0.78	0.18	-0.87	-0.89	0	0	0	0	0	0
10/30/2024 20:19	59201	THOM_T1	112	106	-6	0.71	0.71	0	0	0	0	0	0	0	0	0
10/30/2024 20:19	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:19	61701	ELIZ_T1	1	1	0	5.8	5.8	0	0.33	0.44	0	0	0	0	0	0
10/30/2024 20:19	59202	THOM_T1	649	659	10	0.91	0.93	0.02	0	0	0	0	0	0	0	0
10/30/2024 20:19	59302	MCAL_T1	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
10/30/2024 20:19	13704	SCHN_T2	6	1	-5	0.27	0.1	-0.17	-0.47	-0.46	0	0	0	0	0	0
10/30/2024 20:19	43302	WATS_T2	4	4	0	0.43	0.55	0.12	0	0	0	0	0	0	0	0
10/30/2024 20:19	13701	SCHN_T2	14	0	-14	0.11	0	-0.11	0	0	0	0	0	0	0	0
10/30/2024 20:19	44902	SCOT_T2	0	0	0	0	0	0	-0.83	-0.86	0	0	0	0	0	0
10/30/2024 20:19	10101	ALLE_T3	1	0	-1	3.1	0	-3.1	0	0	0	0	0	0	0	0
10/30/2024 20:19	52403	GRPA_T2	53	88	35	0.48	0.39	-0.09	0	0	0	0	0	0	0	0
10/30/2024 20:19	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:19	10702	CATA_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
10/30/2024 20:19	63305	GREE_T1	63	3	-60	0.29	0.2	-0.09	-2.26	-1.17	1	0	-1	900	0	-900
10/30/2024 20:19	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:19	44904	SCOT_T1	0	0	0	0	0	0	0.52	0.6	0	0	0	0	0	0
10/30/2024 20:20	67502	WEWI_T2	268	213	-55	0.31	0.29	-0.02	-0.41	-0.44	0	0	0	0	0	0
10/30/2024 20:20	10805	CHHI_T2	1	1	0	7.7	8.2	0.5	-1.72	-1.13	1	0	-1	600	0	-600
10/30/2024 20:20	65207	PRIN_T4	57	31	-26	0.18	0.24	0.06	0	0	2	2	0	1800	1800	0
10/30/2024 20:20	20401	ASHF_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
10/30/2024 20:20	46801	HEPB_T2	46	38	-8	0.4	0.32	-0.08	0.53	0.51	0	0	0	0	0	0
10/30/2024 20:20	46101	MACI_T2	2	0	-2	0.1	0	-0.1	-0.59	-0.58	1	1	0	1200	1200	0
10/30/2024 20:20	60801	BUCK_T1	35	41	6	0.22	0.27	0.05	-0.21	-0.21	0	0	0	0	0	0
10/30/2024 20:20	62607	ENGL_T1	0	0	0	0	0	0	-0.76	-0.8	0	0	0	0	0	0
10/30/2024 20:20	46803	HEPB_T2	47	27	-20	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
10/30/2024 20:20	60102	CDCA_T1	0	0	0	0	0	0	-0.16	0.06	2	2	0	1200	1200	0
10/30/2024 20:20	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:20	63501	HEID_TBK1-2	2	4	2	0.6	0.5	-0.1	0.52	0.54	0	0	0	0	0	0
10/30/2024 20:20	40602	PIGR_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/30/2024 20:20	40601	PIGR_T1	4	1	-3	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
10/30/2024 20:20	46004	BERW_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
10/30/2024 20:20	65206	PRIN_T4	2	6	4	1.9	0.1	-1.8	0	0	0	0	0	0	0	0
10/30/2024 20:20	20403	ASHF_T2	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
10/30/2024 20:20	67503	WEWI_T2	2	1	-1	4.2	8.7	4.5	-0.28	-0.29	0	0	0	0	0	0
10/30/2024 20:20	58401	MORO_T1	0	0	0	0	0	0	-1.83	-1.79	1	1	0	600	600	0
10/30/2024 20:20	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:20	46001	BERW_T1	1	0	-1	0.1	0	-0.1	0.57	0.58	0	0	0	0	0	0
10/30/2024 20:20	60803	BUCK_T1	11	15	4	0.17	0.29	0.12	-0.5	-0.52	1	1	0	600	600	0
10/30/2024 20:20	15001	BLMO_T1	4	0	-4	0.33	0	-0.33	0	0	0	0	0	0	0	0
10/30/2024 20:20	53501	EVIL_T2	2	2	0	0.8	0.85	0.05	-1.29	-1.38	2	2	0	1200	1200	0
10/30/2024 20:20	61802	EELI_T2	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
10/30/2024 20:21	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:21	62605	ENGL_T1	0	0	0	0	0	0	-0.76	-0.77	0	0	0	0	0	0
10/30/2024 20:21	45303	WBER_T2	1	1	0	9.5	9.5	0	0.03	-0.01	0	0	0	0	0	0
10/30/2024 20:21	44502	HAMI_T2	1	1	0	3.9	3.7	-0.2	0	0	0	0	0	0	0	0
10/30/2024 20:21	62607	ENGL_T1	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
10/30/2024 20:21	46801	HEPB_T2	46	38	-8	0.4	0.32	-0.08	0	0	0	0	0	0	0	0
10/30/2024 20:21	66505	SMAN_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/30/2024 20:21	59201	THOM_T1	112	106	-6	0.71	0.71	0	0	0	0	0	0	0	0	0
10/30/2024 20:21	58003	WCAR_T1	1	1	0	1.3	1.3	0	0	0	1	1	0	600	600	0
10/30/2024 20:21	43304	WATS_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
10/30/2024 20:21	10801	CHHI_T1	0	0	0	0	0	0	-1.62	-1.65	2	2	0	1500	1500	0
10/30/2024 20:21	40601	PIGR_T1	4	1	-3	0.13	0.1	-0.03	-0.82	-0.73	0	0	0	0	0	0
10/30/2024 20:21	64305	LINC_T1	0	0	0	0	0	0	-0.52	-0.59	0	0	0	0	0	0
10/30/2024 20:21	62601	ENGL_T1	0	0	0	0	0	0	-0.19	-0.14	0	0	0	0	0	0
10/30/2024 20:21	40602	PIGR_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/30/2024 20:21	43302	WATS_T2	4	4	0	0.43	0.55	0.12	0	0	0	0	0	0	0	0
10/30/2024 20:21	58001	WCAR_T1	4	4	0	1.03	1.2	0.17	0	0	0	0	0	0	0	0
10/30/2024 20:21	66504	SMAN_T2	0	0	0	0	0	0	-0.25	-0.33	0	0	0	0	0	0
10/30/2024 20:21	44505	HAMI_T2	0	0	0	0	0	0	0.46	0.49	0	0	0	0	0	0
10/30/2024 20:21	59202	THOM_T1	649	659	10	0.91	0.93	0.02	0	0	0	0	0	0	0	0
10/30/2024 20:21	60201	ATGL_T2	93	132	39	0.24	0.31	0.07	-0.21	-0.25	0	0	0	0	0	0
10/30/2024 20:21	53501	EVIL_T2	2	2	0	0.8	0.85	0.05	-2.75	-2.79	4	4	0	2400	2400	0
10/30/2024 20:21	13303	ORVI_T1	0	0	0	0	0	0	0.88	0.88	0	0	0	0	0	0
10/30/2024 20:21	54206	PENN_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
10/30/2024 20:21	46004	BERW_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
10/30/2024 20:21	55002	NEWP_T1	6	6	0	0.67	0.92	0.25	-0.25	-0.26	0	0	0	0	0	0
10/30/2024 20:21	67401	WAKE_T2	3	3	0	0.17	0.2	0.03	-1.12	-1.1	0	0	0	0	0	0
10/30/2024 20:21	46803	HEPB_T2	47	27	-20	0.21	0.19	-0.02	0.4	0.43	0	0	0	0	0	0
10/30/2024 20:22	60801	BUCK_T1	35	41	6	0.22	0.27	0.05	0	0	0	0	0	0	0	0
10/30/2024 20:22	60803	BUCK_T1	11	15	4	0.17	0.29	0.12	-0.52	-0.55	1	1	0	600	600	0
10/30/2024 20:22	42902	MIDD_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
10/30/2024 20:22	62606	ENGL_T1	0	1	1	0	0	0	-0.99	-1.06	1	1	0	900	900	0
10/30/2024 20:22	67605	WARW_T1	6	12	6	0.32	0.35	0.03	0	0	0	0	0	0	0	0
10/30/2024 20:22	62607	ENGL_T1	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
10/30/2024 20:22	42903	MIDD_T2	2	2	0	1.45	1.5	0.05	0	0	0	0	0	0	0	0
10/30/2024 20:22	65502	MOJO_T2	246	264	18	0.19	0.2	0.01	0	0	0	0	0	0	0	0
10/30/2024 20:22	52401	GRPA_T2	68	119	51	0.2	0.24	0.04	-0.38	-0.39	0	0	0	0	0	0
10/30/2024 20:22	10101	ALLE_T3	1	0	-1	3.1	0	-3.1	0	0	0	0	0	0	0	0
10/30/2024 20:22	46801	HEPB_T2	46	38	-8	0.4	0.32	-0.08	0.51	0.52	0	0	0	0	0	0
10/30/2024 20:22	67603	WARW_T1	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
10/30/2024 20:22	66505	SMAN_T2	0	3	3	0	0.17	0.17	0.25	0.32	1	1	0	900	900	0
10/30/2024 20:22	52403	GRPA_T2	53	88	35	0.48	0.39	-0.09	0	0	0	0	0	0	0	0
10/30/2024 20:22	65503	MOJO_T2	60	87	27	0.12	0.13	0.01	-0.35	-0.34	0	0	0	0	0	0
10/30/2024 20:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:22	13704	SCHN_T2	6	1	-5	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
10/30/2024 20:22	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:22	52404	GRPA_T2	14	19	5	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
10/30/2024 20:22	46001	BERW_T1	1	0	-1	0.1	0	-0.1	0.58	0.53	0	0	0	0	0	0
10/30/2024 20:22	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:22	20603	GRWO_T2	12	13	1	0.17	0.16	-0.01	0.62	0.68	0	0	0	0	0	0
10/30/2024 20:22	13701	SCHN_T2	14	0	-14	0.11	0	-0.11	0.56	0.54	0	0	0	0	0	0
10/30/2024 20:22	48901	FOSP_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
10/30/2024 20:22	52402	GRPA_T2	151	218	67	0.6	0.78	0.18	-0.89	-0.91	0	0	0	0	0	0
10/30/2024 20:22	55002	NEWP_T1	6	6	0	0.67	0.92	0.25	-0.25	-0.26	0	0	0	0	0	0
10/30/2024 20:22	54001	SDLE_T1	317	346	29	0.52	0.51	-0.01	0	0	0	0	0	0	0	0
10/30/2024 20:22	46803	HEPB_T2	47	27	-20	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
10/30/2024 20:23	44505	HAMI_T2	0	0	0	0	0	0	0.49	0.4	0	0	0	0	0	0
10/30/2024 20:23	59201	THOM_T1	112	106	-6	0.71	0.71	0	0	0	0	0	0	0	0	0
10/30/2024 20:23	43304	WATS_T2	0	0	0	0	0	0	-0.55	-0.61	0	0	0	0	0	0
10/30/2024 20:23	64802	MONE_T2	223	26	-197	0.2	0.15	-0.05	0.16	0.17	0	0	0	0	0	0
10/30/2024 20:23	59202	THOM_T1	649	659	10	0.91	0.93	0.02	0	0	0	0	0	0	0	0
10/30/2024 20:23	64801	MONE_T2	23	23	0	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
10/30/2024 20:23	52401	GRPA_T2	68	119	51	0.2	0.24	0.04	-0.38	-0.39	0	0	0	0	0	0
10/30/2024 20:23	44502	HAMI_T2	1	1	0	3.9	3.7	-0.2	0	0	0	0	0	0	0	0
10/30/2024 20:23	45802	HEGI_T2	0	16	16	0	0.26	0.26	0.79	0.73	0	0	0	0	0	0
10/30/2024 20:23	50624	CCTY_T2	2	2	0	6.05	5.95	-0.1	0	0	0	0	0	0	0	0
10/30/2024 20:23	67402	WAKE_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
10/30/2024 20:23	60803	BUCK_T1	11	15	4	0.17	0.29	0.12	0	0	0	0	0	0	0	0
10/30/2024 20:23	43801	SWIL_T1	140	105	-35	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
10/30/2024 20:23	54001	SDLE_T1	317	346	29	0.52	0.51	-0.01	0	0	0	0	0	0	0	0
10/30/2024 20:23	63801	HEMP_T1	2	10	8	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
10/30/2024 20:23	55002	NEWP_T1	6	6	0	0.67	0.92	0.25	0	0	0	0	0	0	0	0
10/30/2024 20:23	40602	PIGR_T1	1	1	0	0.5	0.5	0	-1.46	-1.48	2	2	0	1200	1200	0
10/30/2024 20:23	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:23	63803	HEMP_T1	20	46	26	0.12	0.14	0.02	0	0	0	0	0	0	0	0
10/30/2024 20:23	63804	HEMP_T1	5	5	0	1.16	1.2	0.04	0.87	0.84	0	0	0	0	0	0
10/30/2024 20:23	64101	REFR_T1	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
10/30/2024 20:23	40702	FFLD_T1	177	162	-15	0.49	0.39	-0.1	-0.73	-0.77	1	1	0	1200	1200	0
10/30/2024 20:23	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:23	52402	GRPA_T2	151	218	67	0.6	0.78	0.18	0	0	0	0	0	0	0	0
10/30/2024 20:23	50623	CCTY_T2	5	5	0	5.32	5.34	0.02	0	0	0	0	0	0	0	0
10/30/2024 20:23	43302	WATS_T2	4	4	0	0.43	0.55	0.12	0	0	0	0	0	0	0	0
10/30/2024 20:23	58401	MORO_T1	0	0	0	0	0	0	-1.79	-1.81	1	1	0	600	600	0
10/30/2024 20:23	54701	NEBL_T1	8	8	0	1.26	1.48	0.22	0	0	0	0	0	0	0	0
10/30/2024 20:23	50625	CCTY_T2	5	5	0	2.56	2.64	0.08	0	0	0	0	0	0	0	0
10/30/2024 20:23	40703	FFLD_T1	4	4	0	0.78	0.68	-0.1	0	0	0	0	0	0	0	0
10/30/2024 20:23	40601	PIGR_T1	4	1	-3	0.13	0.1	-0.03	-0.73	-0.83	0	0	0	0	0	0
10/30/2024 20:23	55001	NEWP_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
10/30/2024 20:23	60801	BUCK_T1	35	41	6	0.22	0.27	0.05	-0.21	-0.23	0	0	0	0	0	0
10/30/2024 20:23	62605	ENGL_T1	0	0	0	0	0	0	-2.28	-2.31	0	0	0	0	0	0
10/30/2024 20:23	52404	GRPA_T2	14	19	5	0.45	0.43	-0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/30/2024 20:23	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:23	52403	GRPA_T2	53	88	35	0.48	0.39	-0.09	-0.05	-0.11	0	0	0	0	0	0
10/30/2024 20:23	40701	FFLD_T1	76	76	0	0.59	0.51	-0.08	0	0	0	0	0	0	0	0
10/30/2024 20:23	67401	WAKE_T2	3	3	0	0.17	0.2	0.03	0	0	0	0	0	0	0	0
10/30/2024 20:23	43802	SWIL_T1	1	0	-1	0.1	0	-0.1	-0.23	-0.23	1	1	0	600	600	0
10/30/2024 20:24	52403	GRPA_T2	53	88	35	0.48	0.39	-0.09	-0.05	-0.11	0	0	0	0	0	0
10/30/2024 20:24	66505	SMAN_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
10/30/2024 20:24	64801	MONE_T2	23	23	0	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
10/30/2024 20:24	60803	BUCK_T1	11	15	4	0.17	0.29	0.12	-0.52	-0.55	1	1	0	600	600	0
10/30/2024 20:24	13701	SCHN_T2	14	0	-14	0.11	0	-0.11	0	0	0	0	0	0	0	0
10/30/2024 20:24	67502	WEWI_T2	268	213	-55	0.31	0.29	-0.02	-0.44	-0.46	0	0	0	0	0	0
10/30/2024 20:24	54501	ENOL_T2	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0	0
10/30/2024 20:24	45802	HEGI_T2	0	16	16	0	0.26	0.26	0	0	0	0	0	0	0	0
10/30/2024 20:24	54504	ENOL_T2	0	0	0	0	0	0	-1.16	-1.14	1	1	0	600	600	0
10/30/2024 20:24	54601	SUMM_T2	13	13	0	0.81	0.95	0.14	-4.11	-4.12	2	2	0	2100	2100	0
10/30/2024 20:24	57106	SPHI_T2	3	3	0	2.17	2.13	-0.04	0	0	0	0	0	0	0	0
10/30/2024 20:24	57104	SPHI_T2	4	5	1	0.88	2.04	1.16	-1.77	-1.09	1	0	-1	900	0	-900
10/30/2024 20:24	52402	GRPA_T2	151	218	67	0.6	0.78	0.18	0	0	0	0	0	0	0	0
10/30/2024 20:24	52404	GRPA_T2	14	19	5	0.45	0.43	-0.02	0.43	0.44	0	0	0	0	0	0
10/30/2024 20:24	55001	NEWP_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
10/30/2024 20:24	42902	MIDD_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
10/30/2024 20:24	67503	WEWI_T2	2	1	-1	4.2	8.7	4.5	0	0	0	0	0	0	0	0
10/30/2024 20:24	42903	MIDD_T2	2	2	0	1.45	1.5	0.05	0	0	0	0	0	0	0	0
10/30/2024 20:24	66502	SMAN_T2	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
10/30/2024 20:24	57101	SPHI_T2	5	5	0	1.46	1.9	0.44	0	0	0	0	0	0	0	0
10/30/2024 20:24	60801	BUCK_T1	35	41	6	0.22	0.27	0.05	0	0	0	0	0	0	0	0
10/30/2024 20:24	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
10/30/2024 20:24	63305	GREE_T1	63	3	-60	0.29	0.2	-0.09	-1.17	-1.3	0	0	0	0	0	0
10/30/2024 20:24	67106	SPRI_T2	0	0	0	0	0	0	-1.17	-1.18	1	1	0	900	900	0
10/30/2024 20:24	63302	GREE_T1	0	0	0	0	0	0	0.35	0.38	0	0	0	0	0	0
10/30/2024 20:24	54001	SDLE_T1	317	346	29	0.52	0.51	-0.01	0	0	0	0	0	0	0	0
10/30/2024 20:24	54602	SUMM_T2	12	9	-3	0.43	0.26	-0.17	0	0	0	0	0	0	0	0
10/30/2024 20:24	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/30/2024 20:24	55002	NEWP_T1	6	6	0	0.67	0.92	0.25	0	0	0	0	0	0	0	0
10/30/2024 20:24	54701	NEBL_T1	8	8	0	1.26	1.48	0.22	0	0	0	0	0	0	0	0
10/30/2024 20:24	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 20:24	54505	ENOL_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
10/30/2024 20:24	64802	MONE_T2	223	26	-197	0.2	0.15	-0.05	0.16	0.17	0	0	0	0	0	0
10/30/2024 20:24	13704	SCHN_T2	6	1	-5	0.27	0.1	-0.17	-0.46	-0.47	0	0	0	0	0	0
10/30/2024 20:24	52401	GRPA_T2	68	119	51	0.2	0.24	0.04	0	0	0	0	0	0	0	0
10/30/2024 20:24	40601	PIGR_T1	4	1	-3	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
10/30/2024 20:24	40602	PIGR_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/30/2024 20:25	46004	BERW_T2	0	0	0	0	0	0	-0.29	-0.35	0	0	0	0	0	0
10/30/2024 20:25	58401	MORO_T1	0	0	0	0	0	0	-1.79	-1.81	1	1	0	600	600	0
10/30/2024 20:25	57205	ROSS_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
10/30/2024 20:25	52404	GRPA_T2	14	19	5	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
10/30/2024 20:25	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:25	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:25	59301	MCAL_T1	81	88	7	0.54	0.63	0.09	-2.52	-2.6	0	0	0	0	0	0
10/30/2024 20:25	53501	EVIL_T2	2	2	0	0.8	0.85	0.05	-1.38	-1.39	2	2	0	1200	1200	0
10/30/2024 20:25	52403	GRPA_T2	53	88	35	0.48	0.39	-0.09	-0.05	-0.11	0	0	0	0	0	0
10/30/2024 20:25	60803	BUCK_T1	11	15	4	0.17	0.29	0.12	-0.52	-0.55	1	1	0	600	600	0
10/30/2024 20:25	62607	ENGL_T1	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
10/30/2024 20:25	54001	SDLE_T1	317	346	29	0.52	0.51	-0.01	0	0	0	0	0	0	0	0
10/30/2024 20:25	52401	GRPA_T2	68	119	51	0.2	0.24	0.04	0	0	0	0	0	0	0	0
10/30/2024 20:25	58003	WCAR_T1	1	1	0	1.3	1.3	0	0	0	1	1	0	600	600	0
10/30/2024 20:25	59201	THOM_T1	112	106	-6	0.71	0.71	0	0	0	0	0	0	0	0	0
10/30/2024 20:25	58001	WCAR_T1	4	4	0	1.03	1.2	0.17	0	0	0	0	0	0	0	0
10/30/2024 20:25	52402	GRPA_T2	151	218	67	0.6	0.78	0.18	0	0	0	0	0	0	0	0
10/30/2024 20:25	60801	BUCK_T1	35	41	6	0.22	0.27	0.05	0	0	0	0	0	0	0	0
10/30/2024 20:25	59302	MCAL_T1	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
10/30/2024 20:25	59202	THOM_T1	649	659	10	0.91	0.93	0.02	0	0	0	0	0	0	0	0
10/30/2024 20:26	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:26	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:26	62606	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:26	63804	HEMP_T1	5	5	0	1.16	1.2	0.04	0	0	0	0	0	0	0	0
10/30/2024 20:26	53501	EVIL_T2	2	2	0	0.8	0.85	0.05	-1.38	-1.39	2	2	0	1200	1200	0
10/30/2024 20:26	45802	HEGI_T2	0	16	16	0	0.26	0.26	0.79	0.73	0	0	0	0	0	0
10/30/2024 20:26	62605	ENGL_T1	0	0	0	0	0	0	-0.76	-0.77	0	0	0	0	0	0
10/30/2024 20:26	63501	HEID_TBK1-2	2	4	2	0.6	0.5	-0.1	0.54	0.55	0	0	0	0	0	0
10/30/2024 20:26	57203	ROSS_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
10/30/2024 20:26	63803	HEMP_T1	20	46	26	0.12	0.14	0.02	0	0	0	0	0	0	0	0
10/30/2024 20:26	63801	HEMP_T1	2	10	8	0.15	0.14	-0.01	0.17	0.08	0	0	0	0	0	0
10/30/2024 20:26	58401	MORO_T1	0	0	0	0	0	0	-1.79	-1.81	1	1	0	600	600	0
10/30/2024 20:26	43302	WATS_T2	4	4	0	0.43	0.55	0.12	0	0	0	0	0	0	0	0
10/30/2024 20:27	52401	GRPA_T2	68	119	51	0.2	0.24	0.04	0	0	0	0	0	0	0	0
10/30/2024 20:27	55408	SHER_T2	1	1	0	4	4.2	0.2	0	0	0	0	0	0	0	0
10/30/2024 20:27	67604	WARW_T1	0	0	0	0	0	0	-0.18	-0.02	0	0	0	0	0	0
10/30/2024 20:27	42902	MIDD_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
10/30/2024 20:27	52404	GRPA_T2	14	19	5	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
10/30/2024 20:27	58402	MORO_T1	0	0	0	0	0	0	-0.17	-0.2	2	2	0	1500	1500	0
10/30/2024 20:27	67605	WARW_T1	6	12	6	0.32	0.35	0.03	0	0	0	0	0	0	0	0
10/30/2024 20:27	53501	EVIL_T2	2	2	0	0.8	0.85	0.05	-1.38	-1.39	2	2	0	1200	1200	0
10/30/2024 20:27	64101	REFR_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
10/30/2024 20:27	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:27	52402	GRPA_T2	151	218	67	0.6	0.78	0.18	0	0	0	0	0	0	0	0
10/30/2024 20:27	42903	MIDD_T2	2	2	0	1.45	1.5	0.05	0	0	0	0	0	0	0	0
10/30/2024 20:27	52403	GRPA_T2	53	88	35	0.48	0.39	-0.09	-0.05	-0.11	0	0	0	0	0	0
10/30/2024 20:28	59302	MCAL_T1	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
10/30/2024 20:28	64901	MILL_T1	4	5	1	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
10/30/2024 20:28	59301	MCAL_T1	81	88	7	0.54	0.63	0.09	0	0	0	0	0	0	0	0
10/30/2024 20:28	67106	SPRI_T2	0	0	0	0	0	0	-1.17	-1.18	1	1	0	900	900	0
10/30/2024 20:28	52403	GRPA_T2	53	88	35	0.48	0.39	-0.09	0	0	0	0	0	0	0	0
10/30/2024 20:28	45702	LIND_T2	11	11	0	0.34	0.34	0	-0.67	-0.67	0	0	0	0	0	0
10/30/2024 20:28	52404	GRPA_T2	14	19	5	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
10/30/2024 20:28	54001	SDLE_T1	317	346	29	0.52	0.51	-0.01	0	0	0	0	0	0	0	0
10/30/2024 20:28	52402	GRPA_T2	151	218	67	0.6	0.78	0.18	-0.89	-0.91	0	0	0	0	0	0
10/30/2024 20:28	52401	GRPA_T2	68	119	51	0.2	0.24	0.04	0	0	0	0	0	0	0	0
10/30/2024 20:28	64904	MILL_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
10/30/2024 20:29	52401	GRPA_T2	68	119	51	0.2	0.24	0.04	0	0	0	0	0	0	0	0
10/30/2024 20:29	50501	MECH_T1	4	4	0	1.08	0.55	-0.53	0	0	0	0	0	0	0	0
10/30/2024 20:29	50505	MECH_T1	0	0	0	0	0	0	-0.93	-0.95	0	0	0	0	0	0
10/30/2024 20:29	58401	MORO_T1	0	0	0	0	0	0	-1.79	-1.81	1	1	0	600	600	0
10/30/2024 20:29	52403	GRPA_T2	53	88	35	0.48	0.39	-0.09	0	0	0	0	0	0	0	0
10/30/2024 20:29	52404	GRPA_T2	14	19	5	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
10/30/2024 20:29	50502	MECH_T1	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
10/30/2024 20:29	52402	GRPA_T2	151	218	67	0.6	0.78	0.18	-0.89	-0.91	0	0	0	0	0	0
10/30/2024 20:31	52404	GRPA_T2	19	26	7	0.41	0.4	-0.01	0	0	0	0	0	0	0	0
10/30/2024 20:31	48901	FOSP_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
10/30/2024 20:31	52403	GRPA_T2	77	114	37	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
10/30/2024 20:31	52402	GRPA_T2	212	218	6	0.73	0.81	0.08	-0.89	-0.91	0	0	0	0	0	0
10/30/2024 20:31	55002	NEWP_T1	6	6	0	0.68	0.98	0.3	0	0	0	0	0	0	0	0
10/30/2024 20:31	52401	GRPA_T2	73	205	132	0.22	0.52	0.3	0	0	0	0	0	0	0	0
10/30/2024 20:31	55001	NEWP_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
10/30/2024 20:32	54601	SUMM_T2	13	13	0	0.85	0.96	0.11	-4.11	-4.12	2	2	0	2100	2100	0
10/30/2024 20:32	54603	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 20:32	54602	SUMM_T2	8	8	0	0.28	0.4	0.12	0	0	0	0	0	0	0	0
10/30/2024 20:37	15702	TANN_T2	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
10/30/2024 20:37	15703	TANN_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
10/30/2024 20:41	65207	PRIN_T4	31	11	-20	0.23	0.27	0.04	0	0	0	0	0	0	0	0
10/30/2024 20:41	65206	PRIN_T4	5	2	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/30/2024 20:41	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:42	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30/2024 20:43	67805	WLAN_T1	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
10/30/2024 20:55	14802	TREI_T2	0	1	1	0	0.1	0.1	0.31	0.31	0	0	0	0	0	0
10/30/2024 20:55	14801	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/30/2024 21:16	65205	PRIN_T1	157	9	-148	0.26	0.31	0.05	0	0	0	0	0	0	0	0
10/30/2024 21:16	65203	PRIN_T1	41	2	-39	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
10/30/2024 21:16	65202	PRIN_T1	46	3	-43	0.13	0.33	0.2	0	0	0	0	0	0	0	0
10/30/2024 21:17	43802	SWIL_T1	2	1	-1	0.1	0	-0.24	-0.26	1	1	0	0	600	600	0
10/30/2024 21:17	43801	SWIL_T1	104	99	-5	0.32	0.32	0	0	0	0	0	0	0	0	0
10/30/2024 21:21	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
10/30/2024 21:43	44702	MUNC_T2	129	14	-115	0.41	0.13	-0.28	0	0	0	0	0	0	0	0
10/30/2024 21:43	44703	MUNC_T2	2	2	0	1.65	1.35	-0.3	0	0	0	0	0	0	0	0
10/30/2024 21:43	44701	MUNC_T2	394	226	-168	0.46	0.26	-0.2	0	0	0	0	0	0	0	0
10/30/2024 21:59	17804	GILB_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
10/30/2024 21:59	17805	GILB_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
10/30/2024 22:13	15601	NSTR_T2	3	3	0	0.9	0.83	-0.07	0	0	0	0	0	0	0	0
10/30/2024 22:13	15603	NSTR_T2	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
10/30/2024 22:20	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.09	0	0	0	0	0	0
10/30/2024 22:20	67401	WAKE_T2	109	76	-33	0.25	0.3	0.05	0	0	0	0	0	0	0	0
10/30/2024 23:19	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 7:58	63303	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 7:58	63306	GREE_T1	0	0	0	0	0	0	-1.26	-1.25	0	0	0	0	0	0
10/31/2024 8:11	55101	WERT_T1	0	0	0	0	0	0	-1.47	-1.35	1	1	0	600	600	0
10/31/2024 8:12	61703	ELIZ_T1	0	0	0	0	0	0	-1.97	-1.92	1	1	0	900	900	0
10/31/2024 8:12	61701	ELIZ_T1	1	1	0	5	4.5	-0.5	0	0	0	0	0	0	0	0
10/31/2024 8:29	23901	EFMO_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
10/31/2024 8:29	44802	EDAN_T2	0	0	0	0	0	0	-4.7	-4.51	0	0	0	0	0	0
10/31/2024 8:32	45702	LIND_T2	1	1	0	0.6	0.5	-0.1	-0.44	-0.44	0	0	0	0	0	0
10/31/2024 8:35	64902	MILL_T2	0	0	0	0	0	0	-0.84	-0.79	1	1	0	900	900	0
10/31/2024 8:36	67503	WEWI_T2	1	1	0	8.7	9	0.3	-0.28	-0.29	0	0	0	0	0	0
10/31/2024 8:41	45501	DERR_T2	0	0	0	0	0	0	0.7	0.76	2	2	0	1800	1800	0
10/31/2024 8:41	45502	DERR_T2	2	2	0	0.25	0	-0.25	0	0	0	0	0	0	0	0
10/31/2024 8:43	11801	FRAN_T2	0	0	0	0	0	0	0.17	0.13	0	0	0	0	0	0
10/31/2024 8:47	64903	MILL_T2	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
10/31/2024 8:50	64903	MILL_T2	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
10/31/2024 8:55	45501	DERR_T2	0	1	1	0	0.4	0.4	0.76	0.68	2	2	0	1800	1800	0
10/31/2024 8:55	45502	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 9:03	24202	PROV_T4	1	0	-1	2	0	-2	0	0	1	1	0	1200	1200	0
10/31/2024 9:03	55002	NEWP_T1	6	8	2	1.3	1.16	-0.14	-0.27	-0.24	0	0	0	0	0	0
10/31/2024 9:03	55001	NEWP_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
10/31/2024 9:03	64902	MILL_T2	0	0	0	0	0	0	-0.81	-0.83	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/31/2024 9:08	45303	WBER_T2	1	1	0	9.7	9.5	-0.2	0	0	0	0	0	0	0	0
10/31/2024 9:08	45302	WBER_T2	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
10/31/2024 9:09	67501	WEWI_T1	0	0	0	0	0	0	-0.49	-0.53	0	0	0	0	0	0
10/31/2024 9:11	44301	BEAV_T2	0	0	0	0	0	0	1.43	2.18	2	2	0	1200	1200	0
10/31/2024 9:14	12006	HATF_T1	0	0	0	0	0	0	0.53	0.55	1	1	0	1200	1200	0
10/31/2024 9:14	12002	HATF_T1	1	1	0	3.5	3.4	-0.1	0	0	0	0	0	0	0	0
10/31/2024 9:15	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
10/31/2024 9:15	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 9:15	40602	PIGR_T1	1	2	1	1.1	0.55	-0.55	0	0	0	0	0	0	0	0
10/31/2024 9:15	63803	HEMP_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
10/31/2024 9:15	63801	HEMP_T1	0	0	0	0	0	0	0.29	0.24	0	0	0	0	0	0
10/31/2024 9:15	40601	PIGR_T1	124	111	-13	0.31	0.26	-0.05	0	0	0	0	0	0	0	0
10/31/2024 9:17	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.64	0	0	0	0	0	0
10/31/2024 9:17	46506	LOHA_T1	3	3	0	5.43	5.53	0.1	0	0	0	0	0	0	0	0
10/31/2024 9:19	45702	LIND_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
10/31/2024 9:19	45701	LIND_T2	0	0	0	0	0	0	-0.35	-0.31	0	0	0	0	0	0
10/31/2024 9:21	10101	ALLE_T3	1	1	0	6.9	0	-6.9	0	0	0	0	0	0	0	0
10/31/2024 9:21	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 9:22	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.76	1	1	0	900	900	0
10/31/2024 9:30	53501	EVIL_T2	2	2	0	0.25	0.45	0.2	0.56	0.75	0	0	0	0	0	0
10/31/2024 9:34	45702	LIND_T2	1	1	0	0.3	0.5	0.2	-0.49	-0.47	0	0	0	0	0	0
10/31/2024 9:46	25402	LAHA_T2	0	0	0	0	0	0	-0.68	-0.62	0	0	0	0	0	0
10/31/2024 9:47	64902	MILL_T2	0	1	1	0	0.2	0.2	-0.76	-0.75	1	1	0	900	900	0
10/31/2024 9:48	59301	MCAL_T1	3	3	0	0.73	0.57	-0.16	-1.43	-1.42	1	1	0	600	600	0
10/31/2024 9:51	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 9:51	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 9:51	66502	SMAN_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/31/2024 9:51	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 9:57	52403	GRPA_T2	165	74	-91	0.44	0.3	-0.14	-0.11	0.03	0	0	0	0	0	0
10/31/2024 9:57	52402	GRPA_T2	84	31	-53	0.36	0.44	0.08	-0.83	-0.81	0	0	0	0	0	0
10/31/2024 9:57	52401	GRPA_T2	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
10/31/2024 9:57	52404	GRPA_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
10/31/2024 10:00	67605	WARW_T1	4	1	-3	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
10/31/2024 10:00	28102	TWLA_T2	2	8	6	0.2	0.19	-0.01	0.15	0.16	0	0	0	0	0	0
10/31/2024 10:00	40505	CRES_T1	0	13	13	0	8.41	8.41	0.31	0.34	0	0	0	0	0	0
10/31/2024 10:00	64902	MILL_T2	1	1	0	0.2	0.1	-0.1	-2.26	-2.34	3	3	0	2700	2700	0
10/31/2024 10:00	67503	WEWI_T2	1	1	0	8.9	8.8	-0.1	-0.27	-0.27	0	0	0	0	0	0
10/31/2024 10:00	67502	WEWI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
10/31/2024 10:00	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
10/31/2024 10:00	64903	MILL_T2	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
10/31/2024 10:04	57401	SPAN_T1	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
10/31/2024 10:04	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
10/31/2024 10:04	57403	SPAN_T1	15	18	3	0.24	0.2	-0.04	-0.08	-0.06	0	0	0	0	0	0
10/31/2024 10:05	64902	MILL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/31/2024 10:05	64903	MILL_T2	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
10/31/2024 10:07	16102	BING_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
10/31/2024 10:07	16101	BING_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
10/31/2024 10:09	29402	BELT_T1	1	2	1	8.2	4.2	-4	0	0	0	0	0	0	0	0
10/31/2024 10:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/31/2024 10:10	67503	WEWI_T2	1	1	0	8.9	8.8	-0.1	0	0	0	0	0	0	0	0
10/31/2024 10:10	67502	WEWI_T2	1	1	0	0.3	0.4	0.1	-0.25	-0.19	0	0	0	0	0	0
10/31/2024 10:11	53501	EVIL_T2	2	3	1	0.45	0.57	0.12	0.05	0.07	1	1	0	600	600	0
10/31/2024 10:13	45501	DERR_T2	0	0	0	0	0	0	0.83	0.92	2	2	0	1800	1800	0
10/31/2024 10:13	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 10:14	23901	EFMO_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
10/31/2024 10:15	63803	HEMP_T1	1	1	0	0.2	0.3	0.1	0.04	0.06	0	0	0	0	0	0
10/31/2024 10:15	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/31/2024 10:15	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
10/31/2024 10:15	45501	DERR_T2	0	0	0	0	0	0	0.83	0.92	2	2	0	1800	1800	0
10/31/2024 10:15	45502	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/31/2024 10:15	63501	HEID_TBK1-2	3	2	-1	0.47	0.35	-0.12	0.22	0.28	2	2	0	1800	1800	0
10/31/2024 10:17	25402	LAHA_T2	0	0	0	0	0	0	-0.55	-0.51	0	0	0	0	0	0
10/31/2024 10:17	55002	NEWP_T1	7	9	2	1.29	1.28	-0.01	-0.25	-0.24	0	0	0	0	0	0
10/31/2024 10:20	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/31/2024 10:20	66505	SMAN_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
10/31/2024 10:20	66504	SMAN_T2	0	1	1	0	0.2	0.2	-0.77	-0.57	0	0	0	0	0	0
10/31/2024 10:21	55002	NEWP_T1	7	9	2	1.29	1.28	-0.01	-0.24	-0.24	0	0	0	0	0	0
10/31/2024 10:22	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
10/31/2024 10:22	55002	NEWP_T1	7	9	2	1.29	1.28	-0.01	0	0	0	0	0	0	0	0
10/31/2024 10:22	55001	NEWP_T1	0	0	0	0	0	0	-0.13	-0.1	0	0	0	0	0	0
10/31/2024 10:22	67605	WARW_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
10/31/2024 10:23	66505	SMAN_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
10/31/2024 10:23	14801	TREI_T2	1	4	3	0.4	0.35	-0.05	0.24	0.25	0	0	0	0	0	0
10/31/2024 10:23	14802	TREI_T2	1	1	0	0.1	0.2	0.1	0.37	0.36	0	0	0	0	0	0
10/31/2024 10:23	66504	SMAN_T2	0	1	1	0	0.2	0.2	-0.29	-0.19	0	0	0	0	0	0
10/31/2024 10:23	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/31/2024 10:23	55002	NEWP_T1	7	9	2	1.29	1.28	-0.01	-0.24	-0.24	0	0	0	0	0	0
10/31/2024 10:26	20403	ASHF_T2	0	16	16	0	0.36	0.36	1.22	1.09	0	0	0	0	0	0
10/31/2024 10:27	20403	ASHF_T2	0	16	16	0	0.36	0.36	1.22	1.09	0	0	0	0	0	0
10/31/2024 10:28	41801	GOCI_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
10/31/2024 10:30	41602	CLEV_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
10/31/2024 10:31	46506	LOHA_T1	3	3	0	5.43	5.7	0.27	0	0	0	0	0	0	0	0
10/31/2024 10:31	46503	LOHA_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
10/31/2024 10:32	45702	LIND_T2	2	2	0	0.15	0.25	0.1	-0.46	-0.48	0	0	0	0	0	0
10/31/2024 10:32	46503	LOHA_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
10/31/2024 10:32	46506	LOHA_T1	3	3	0	5.43	5.7	0.27	0	0	0	0	0	0	0	0
10/31/2024 10:32	45701	LIND_T2	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
10/31/2024 10:33	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
10/31/2024 10:34	64101	REFR_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
10/31/2024 10:35	67002	STHI_T2	5	17	12	0.16	0.28	0.12	0	0	0	0	0	0	0	0
10/31/2024 10:35	45702	LIND_T2	2	2	0	0.15	0.25	0.1	-0.46	-0.48	0	0	0	0	0	0
10/31/2024 10:35	66504	SMAN_T2	1	2	1	0.1	0.25	0.15	-0.29	-0.19	0	0	0	0	0	0
10/31/2024 10:35	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 10:35	67001	STHI_T2	4	6	2	0.23	0.32	0.09	0.05	0.04	0	0	0	0	0	0
10/31/2024 10:36	13701	SCHN_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
10/31/2024 10:36	13704	SCHN_T2	1	1	0	0.2	0.2	0	-0.34	-0.32	0	0	0	0	0	0
10/31/2024 10:36	67002	STHI_T2	5	17	12	0.16	0.28	0.12	0.69	0.74	0	0	0	0	0	0
10/31/2024 10:36	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.42	0	0	0	0	0	0
10/31/2024 10:36	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
10/31/2024 10:36	67001	STHI_T2	4	6	2	0.23	0.32	0.09	0	0	0	0	0	0	0	0
10/31/2024 10:37	43301	WATS_T2	0	0	0	0	0	0	-0.86	-0.83	1	1	0	900	900	0
10/31/2024 10:37	54601	SUMM_T2	13	13	0	0.62	0.59	-0.03	-8.23	-8.13	4	4	0	4200	4200	0
10/31/2024 10:37	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
10/31/2024 10:37	54602	SUMM_T2	16	16	0	0.71	0.68	-0.03	0	0	0	0	0	0	0	0
10/31/2024 10:37	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
10/31/2024 10:37	67002	STHI_T2	5	17	12	0.16	0.28	0.12	0.69	0.74	0	0	0	0	0	0
10/31/2024 10:37	66504	SMAN_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
10/31/2024 10:37	67001	STHI_T2	4	6	2	0.23	0.32	0.09	0.08	0.12	0	0	0	0	0	0
10/31/2024 10:37	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.48	0	0	0	0	0	0
10/31/2024 10:38	15601	NSTR_T2	3	3	0	0.43	0.67	0.24	0	0	0	0	0	0	0	0
10/31/2024 10:38	54602	SUMM_T2	16	16	0	0.71	0.68	-0.03	0	0	0	0	0	0	0	0
10/31/2024 10:38	15603	NSTR_T2	1	1	0	0.4	0.7	0.3	-0.68	-0.67	0	0	0	0	0	0
10/31/2024 10:38	54601	SUMM_T2	13	13	0	0.62	0.59	-0.03	-8.23	-8.13	4	4	0	4200	4200	0
10/31/2024 10:38	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.48	0	0	0	0	0	0
10/31/2024 10:38	67001	STHI_T2	4	6	2	0.23	0.32	0.09	0	0	0	0	0	0	0	0
10/31/2024 10:38	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
10/31/2024 10:38	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
10/31/2024 10:38	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 10:38	67002	STHI_T2	5	17	12	0.16	0.28	0.12	1.39	1.48	0	0	0	0	0	0
10/31/2024 10:39	67002	STHI_T2	5	17	12	0.16	0.28	0.12	1.39	1.48	0	0	0	0	0	0
10/31/2024 10:39	67001	STHI_T2	4	6	2	0.23	0.32	0.09	0	0	0	0	0	0	0	0
10/31/2024 10:39	43304	WATS_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
10/31/2024 10:40	67001	STHI_T2	4	6	2	0.23	0.32	0.09	0.04	0.06	0	0	0	0	0	0
10/31/2024 10:40	14801	TREI_T2	2	4	2	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
10/31/2024 10:40	67002	STHI_T2	5	17	12	0.16	0.28	0.12	0.69	0.74	0	0	0	0	0	0
10/31/2024 10:40	43304	WATS_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
10/31/2024 10:40	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 10:40	14802	TREI_T2	1	1	0	0.2	0.3	0.1	0.36	0.39	0	0	0	0	0	0
10/31/2024 10:41	67001	STHI_T2	4	6	2	0.23	0.32	0.09	0	0	0	0	0	0	0	0
10/31/2024 10:41	67002	STHI_T2	5	17	12	0.16	0.28	0.12	1.39	1.48	0	0	0	0	0	0
10/31/2024 10:42	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 10:42	17805	GILB_T2	3	3	0	0.53	0.7	0.17	0.14	0.22	0	0	0	0	0	0
10/31/2024 10:42	17804	GILB_T2	3	3	0	0.7	0.83	0.13	0	0	0	0	0	0	0	0
10/31/2024 10:43	17802	GILB_T1	3	3	0	0.5	0.6	0.1	0.02	0.01	0	0	0	0	0	0
10/31/2024 10:43	17804	GILB_T2	3	3	0	0.7	0.83	0.13	0	0	0	0	0	0	0	0
10/31/2024 10:43	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 10:43	17805	GILB_T2	3	3	0	0.53	0.7	0.17	0.14	0.22	0	0	0	0	0	0
10/31/2024 10:44	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
10/31/2024 10:44	63801	HEMP_T1	0	1	1	0	0.1	0.1	0.15	0.21	0	0	0	0	0	0
10/31/2024 10:44	44801	EDAN_T2	1	2	1	0.5	0.5	0	-0.46	-0.47	0	0	0	0	0	0
10/31/2024 10:44	63803	HEMP_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/31/2024 10:45	17805	GILB_T2	3	3	0	0.67	0.6	-0.07	0.14	0.22	0	0	0	0	0	0
10/31/2024 10:45	17804	GILB_T2	3	3	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
10/31/2024 10:45	20603	GRWO_T2	3	4	1	0.13	0.4	0.27	-1.29	-1.34	2	2	0	1800	1800	0
10/31/2024 10:46	14203	EALL_T1	0	0	0	0	0	0	1.24	1.19	0	0	0	0	0	0
10/31/2024 10:46	17804	GILB_T2	3	3	0	0.8	0.7	-0.1	-0.62	-0.63	0	0	0	0	0	0
10/31/2024 10:46	17805	GILB_T2	3	3	0	0.67	0.6	-0.07	0.14	0.22	0	0	0	0	0	0
10/31/2024 10:51	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 10:51	40303	TAMA_T3	0	0	0	0	0	0	2.22	2.14	0	0	0	0	0	0
10/31/2024 10:54	67602	WARW_T2	0	0	0	0	0	0	1.37	1.42	1	1	0	300	300	0
10/31/2024 10:55	67602	WARW_T2	0	0	0	0	0	0	1.37	1.42	1	1	0	300	300	0
10/31/2024 10:55	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
10/31/2024 10:57	67602	WARW_T2	0	0	0	0	0	0	1.37	1.42	1	1	0	300	300	0
10/31/2024 10:58	46801	HEPB_T2	2	2	0	0.8	1.25	0.45	0.55	0.56	0	0	0	0	0	0
10/31/2024 10:58	46803	HEPB_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
10/31/2024 11:00	67805	WLAN_T1	0	0	0	0	0	0	-1.04	-1.13	0	0	0	0	0	0
10/31/2024 11:00	63804	HEMP_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
10/31/2024 11:00	63803	HEMP_T1	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/31/2024 11:00	63801	HEMP_T1	0	1	1	0	0.3	0.3	0.21	0.27	0	0	0	0	0	0
10/31/2024 11:02	61001	DONV_T1	2	1	-1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
10/31/2024 11:02	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/31/2024 11:05	43802	SWIL_T1	0	0	0	0	0	0	-0.28	-0.28	1	1	0	600	600	0
10/31/2024 11:05	43801	SWIL_T1	1	1	0	5.8	5.4	-0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/31/2024 11:07	66504	SMAN_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
10/31/2024 11:07	66502	SMAN_T2	0	1	1	0	0.3	0.3	0.2	0.25	0	0	0	0	0	0
10/31/2024 11:09	29402	BELT_T1	3	2	-1	2.9	4.3	1.4	0	0	0	0	0	0	0	0
10/31/2024 11:09	29401	BELT_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/31/2024 11:10	11801	FRAN_T2	0	0	0	0	0	0	0.32	0.26	0	0	0	0	0	0
10/31/2024 11:11	29402	BELT_T1	3	2	-1	2.9	4.3	1.4	0	0	0	0	0	0	0	0
10/31/2024 11:11	29401	BELT_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
10/31/2024 11:11	44802	EDAN_T2	0	0	0	0	0	0	-2.08	-2.09	0	0	0	0	0	0
10/31/2024 11:11	10801	CHHI_T1	1	5	4	0.2	0.28	0.08	-1.44	-1.44	2	2	0	1500	1500	0
10/31/2024 11:11	44801	EDAN_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
10/31/2024 11:12	57104	SPHI_T2	3	4	1	1.63	1	-0.63	-1.09	-1.09	0	0	0	0	0	0
10/31/2024 11:12	57106	SPHI_T2	3	3	0	1.07	1.13	0.06	0	0	0	0	0	0	0	0
10/31/2024 11:12	57101	SPHI_T2	5	5	0	0.74	1.02	0.28	0	0	0	0	0	0	0	0
10/31/2024 11:12	44802	EDAN_T2	0	0	0	0	0	0	-4.17	-4.18	0	0	0	0	0	0
10/31/2024 11:12	44801	EDAN_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
10/31/2024 11:13	44505	HAMI_T2	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
10/31/2024 11:13	44502	HAMI_T2	1	1	0	3	3.2	0.2	0	0	0	0	0	0	0	0
10/31/2024 11:13	44802	EDAN_T2	0	0	0	0	0	0	-2.08	-2.09	0	0	0	0	0	0
10/31/2024 11:13	44801	EDAN_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
10/31/2024 11:14	10801	CHHI_T1	1	5	4	0.2	0.28	0.08	-1.44	-1.44	2	2	0	1500	1500	0
10/31/2024 11:14	44505	HAMI_T2	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
10/31/2024 11:14	44502	HAMI_T2	1	1	0	3	3.2	0.2	0	0	0	0	0	0	0	0
10/31/2024 11:15	44502	HAMI_T2	1	1	0	3	3.3	0.3	0	0	0	0	0	0	0	0
10/31/2024 11:15	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 11:15	44802	EDAN_T2	0	0	0	0	0	0	-2.08	-2.09	0	0	0	0	0	0
10/31/2024 11:15	44801	EDAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/31/2024 11:16	52401	GRPA_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
10/31/2024 11:16	52404	GRPA_T2	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
10/31/2024 11:16	44802	EDAN_T2	0	0	0	0	0	0	-2.08	-2.09	0	0	0	0	0	0
10/31/2024 11:16	52402	GRPA_T2	27	52	25	0.44	0.39	-0.05	0	0	0	0	0	0	0	0
10/31/2024 11:16	44801	EDAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/31/2024 11:16	52403	GRPA_T2	20	27	7	0.47	0.61	0.14	0	0.04	0	0	0	0	0	0
10/31/2024 11:17	52404	GRPA_T2	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
10/31/2024 11:17	52401	GRPA_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
10/31/2024 11:17	52402	GRPA_T2	27	52	25	0.44	0.39	-0.05	0	0	0	0	0	0	0	0
10/31/2024 11:17	52403	GRPA_T2	20	27	7	0.47	0.61	0.14	0	0.04	0	0	0	0	0	0
10/31/2024 11:18	52401	GRPA_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
10/31/2024 11:18	52402	GRPA_T2	27	52	25	0.44	0.39	-0.05	-1.56	-1.64	0	0	0	0	0	0
10/31/2024 11:18	52403	GRPA_T2	20	27	7	0.47	0.61	0.14	0	0	0	0	0	0	0	0
10/31/2024 11:18	52404	GRPA_T2	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
10/31/2024 11:19	48902	FOSP_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
10/31/2024 11:19	48901	FOSP_T2	0	0	0	0	0	0	-0.11	-0.15	1	1	0	600	600	0
10/31/2024 11:20	65503	MOJO_T2	0	0	0	0	0	0	-0.83	-0.81	1	1	0	900	900	0
10/31/2024 11:27	63302	GREE_T1	0	0	0	0	0	0	0.73	0.76	0	0	0	0	0	0
10/31/2024 11:28	29401	BELT_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/31/2024 11:28	17804	GILB_T2	3	3	0	0.63	0.73	0.1	0	0	0	0	0	0	0	0
10/31/2024 11:28	17805	GILB_T2	2	5	3	0.75	0.58	-0.17	0.24	0.26	0	0	0	0	0	0
10/31/2024 11:28	29402	BELT_T1	2	1	-1	4.3	8.4	4.1	0	0	0	0	0	0	0	0
10/31/2024 11:31	64902	MILL_T2	0	1	1	0	0.3	0.3	-0.63	-0.55	1	1	0	900	900	0
10/31/2024 11:31	64903	MILL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/31/2024 11:32	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/31/2024 11:32	58401	MORO_T1	0	0	0	0	0	0	-1.52	-1.45	1	1	0	600	600	0
10/31/2024 11:32	17805	GILB_T2	5	4	-1	0.58	0.53	-0.05	0.24	0.26	0	0	0	0	0	0
10/31/2024 11:32	17804	GILB_T2	3	4	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
10/31/2024 11:33	64801	MONE_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
10/31/2024 11:33	64802	MONE_T2	2	3	1	0.35	0.53	0.18	0.3	0.3	0	0	0	0	0	0
10/31/2024 11:34	58401	MORO_T1	0	0	0	0	0	0	-1.52	-1.45	1	1	0	600	600	0
10/31/2024 11:34	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
10/31/2024 11:36	13302	ORVI_T2	1	2	1	0.7	0.45	-0.25	1.22	1.25	0	0	0	0	0	0
10/31/2024 11:36	13303	ORVI_T1	0	0	0	0	0	0	1.14	1.12	0	0	0	0	0	0
10/31/2024 11:37	54001	SDLE_T1	9	10	1	1.09	1.1	0.01	0	0	0	0	0	0	0	0
10/31/2024 11:44	45802	HEGI_T2	0	2	2	0	0.3	0.3	0.7	0.64	1	2	1	900	1200	300
10/31/2024 11:46	46506	LOHA_T1	3	3	0	5.97	6.03	0.06	0	0	0	0	0	0	0	0
10/31/2024 11:46	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
10/31/2024 11:47	45802	HEGI_T2	1	2	1	0.6	0	-0.6	0.7	0.64	1	2	1	900	1200	300
10/31/2024 11:48	45802	HEGI_T2	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
10/31/2024 11:50	46001	BERW_T1	0	0	0	0	0	0	0.76	0.72	0	0	0	0	0	0
10/31/2024 11:51	58401	MORO_T1	0	0	0	0	0	0	-1.41	-1.37	1	1	0	600	600	0
10/31/2024 11:51	58402	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/31/2024 11:52	59202	THOM_T1	2	23	21	0.2	0.38	0.18	0	0	0	0	0	0	0	0
10/31/2024 11:52	59201	THOM_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/31/2024 11:52	66504	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/31/2024 11:52	66502	SMAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/31/2024 11:52	66505	SMAN_T2	0	0	0	0	0	0	0.89	0.38	2	3	1	1100	1700	600
10/31/2024 11:53	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
10/31/2024 11:53	58401	MORO_T1	0	0	0	0	0	0	-1.41	-1.37	1	1	0	600	600	0
10/31/2024 11:53	58402	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/31/2024 11:54	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
10/31/2024 11:54	59202	THOM_T1	2	23	21	0.2	0.38	0.18	0	0	0	0	0	0	0	0
10/31/2024 11:54	59201	THOM_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
10/31/2024 11:58	45802	HEGI_T2	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
10/31/2024 12:00	10805	CHHI_T2	1	1	0	8	7.9	-0.1	-1.03	-1.35	1	1	0	1200	1200	0
10/31/2024 12:01	64305	LINC_T1	0	0	0	0	0	0	0.11	-0.06	0	0	0	0	0	0
10/31/2024 12:06	59201	THOM_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
10/31/2024 12:06	59202	THOM_T1	6	32	26	0.28	0.4	0.12	0	0	0	0	0	0	0	0
10/31/2024 12:09	14802	TREI_T2	1	3	2	0.2	0.2	0	0.38	0.39	0	0	0	0	0	0
10/31/2024 12:09	14801	TREI_T2	2	1	-1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/31/2024 12:11	14802	TREI_T2	1	3	2	0.2	0.2	0	0.38	0.39	0	0	0	0	0	0
10/31/2024 12:11	14801	TREI_T2	2	1	-1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
10/31/2024 12:12	43402	BENT_T1	2	2	0	0.25	0.7	0.45	-1.22	-1.22	2	2	0	1500	1500	0
10/31/2024 12:13	60801	BUCK_T1	0	1	1	0	0.1	0.1	-0.12	-0.12	0	0	0	0	0	0
10/31/2024 12:13	44505	HAMI_T2	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
10/31/2024 12:13	44502	HAMI_T2	1	1	0	3.4	3.3	-0.1	0	0	0	0	0	0	0	0
10/31/2024 12:13	43402	BENT_T1	2	2	0	0.25	0.7	0.45	-1.22	-1.22	2	2	0	1500	1500	0
10/31/2024 12:14	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/31/2024 12:15	44502	HAMI_T2	1	1	0	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
10/31/2024 12:15	44505	HAMI_T2	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
10/31/2024 12:16	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 12:16	44502	HAMI_T2	1	1	0	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
10/31/2024 12:17	52403	GRPA_T2	26	32	6	0.64	0.74	0.1	0	0	0	0	0	0	0	0
10/31/2024 12:17	52401	GRPA_T2	3	2	-1	0.37	0.15	-0.22	-0.39	-0.4	0	0	0	0	0	0
10/31/2024 12:17	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/31/2024 12:17	58402	MORO_T1	0	1	1	0	0.2	0.2	-0.15	-0.19	2	2	0	1500	1500	0
10/31/2024 12:17	52402	GRPA_T2	44	27	-17	0.37	0.5	0.13	0	0	0	0	0	0	0	0
10/31/2024 12:19	58402	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/31/2024 12:19	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
10/31/2024 12:19	52402	GRPA_T2	44	27	-17	0.37	0.5	0.13	-0.87	-0.86	0	0	0	0	0	0
10/31/2024 12:19	52403	GRPA_T2	26	32	6	0.64	0.74	0.1	0.05	0	0	0	0	0	0	0
10/31/2024 12:19	52401	GRPA_T2	3	2	-1	0.37	0.15	-0.22	0	0	0	0	0	0	0	0
10/31/2024 12:19	58401	MORO_T1	0	0	0	0	0	0	-1.37	-1.43	1	1	0	600	600	0
10/31/2024 12:22	58401	MORO_T1	0	0	0	0	0	0	-1.43	-1.38	1	1	0	600	600	0
10/31/2024 12:22	58402	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/31/2024 12:24	66505	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/31/2024 12:24	66504	SMAN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/31/2024 12:30	63501	HEID_TBK1-2	1	1	0	0.1	0.6	0.5	0.22	0.33	1	1	0	900	900	0
10/31/2024 12:31	54505	ENOL_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
10/31/2024 12:31	46802	HEPB_T1	5	1	-4	0.48	1.4	0.92	-0.3	-0.32	0	0	0	0	0	0
10/31/2024 12:31	54502	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/31/2024 12:31	54506	ENOL_T2	0	0	0	0	0	0	0.71	0.67	1	1	0	600	600	0
10/31/2024 12:32	63501	HEID_TBK1-2	1	1	0	0.1	0.6	0.5	0.44	0.66	2	2	0	1800	1800	0
10/31/2024 12:32	46504	LOHA_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/31/2024 12:32	46506	LOHA_T1	3	3	0	5.9	5.97	0.07	-0.12	-0.12	0	0	0	0	0	0
10/31/2024 12:33	23202	HIRU_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
10/31/2024 12:33	23201	HIRU_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/31/2024 12:35	41902	REED_T1	0	0	0	0	0	0	0.92	0.95	0	0	0	0	0	0
10/31/2024 12:36	41902	REED_T1	0	0	0	0	0	0	0.92	0.95	0	0	0	0	0	0
10/31/2024 12:36	59301	MCAL_T1	6	3	-3	0.7	0.6	-0.1	-1.52	-1.51	1	1	0	600	600	0
10/31/2024 12:44	59202	THOM_T1	30	3	-27	0.41	0.3	-0.11	0	0	0	0	0	0	0	0
10/31/2024 12:44	59201	THOM_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
10/31/2024 12:48	40601	PIGR_T1	11	30	19	0.26	0.26	0	0	0	0	0	0	0	0	0
10/31/2024 12:48	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 12:48	40602	PIGR_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
10/31/2024 12:48	40603	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/31/2024 12:52	40602	PIGR_T1	1	1	0	1	1.1	0.1	-1.46	-1.33	2	2	0	1200	1200	0
10/31/2024 12:52	40601	PIGR_T1	11	30	19	0.26	0.26	0	0	0	0	0	0	0	0	0
10/31/2024 12:52	40603	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/31/2024 12:53	40601	PIGR_T1	11	30	19	0.26	0.26	0	-0.84	-0.69	0	0	0	0	0	0
10/31/2024 12:53	40602	PIGR_T1	1	1	0	1	1.1	0.1	-1.46	-1.33	2	2	0	1200	1200	0
10/31/2024 12:53	40603	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/31/2024 12:54	67501	WEWI_T1	0	2	2	0	0.15	0.15	-0.84	-0.77	1	1	0	600	600	0
10/31/2024 12:55	67502	WEWI_T2	3	6	3	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
10/31/2024 12:55	67503	WEWI_T2	1	1	0	8.6	9.1	0.5	-0.2	-0.13	0	0	0	0	0	0
10/31/2024 12:55	67501	WEWI_T1	0	2	2	0	0.15	0.15	-0.84	-0.77	1	1	0	600	600	0
10/31/2024 13:00	28403	HART_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
10/31/2024 13:03	65206	PRIN_T4	1	2	1	6.8	3.1	-3.7	0	0	0	0	0	0	0	0
10/31/2024 13:03	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 13:03	65207	PRIN_T4	2	2	0	0.7	1.75	1.05	0	0	2	2	0	1800	1800	0
10/31/2024 13:04	58402	MORO_T1	1	1	0	0.4	0.7	0.3	-0.12	-0.04	2	2	0	1500	1500	0
10/31/2024 13:04	65205	PRIN_T1	2	1	-1	2.05	0.5	-1.55	0	0	0	0	0	0	0	0
10/31/2024 13:13	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 13:15	21206	ECAR_T2	1	1	0	7.3	7.6	0.3	0	0	0	0	0	0	0	0
10/31/2024 13:15	21204	ECAR_T2	1	1	0	0	0	0	-0.73	-0.75	0	0	0	0	0	0
10/31/2024 13:24	67602	WARW_T2	0	1	1	0	0	0	1.46	1.38	1	1	0	300	300	0
10/31/2024 13:25	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.54	1	1	0	900	900	0
10/31/2024 13:26	55101	WERT_T1	0	0	0	0	0	0	-1.5	-1.61	2	2	0	1500	1500	0
10/31/2024 13:27	55101	WERT_T1	0	0	0	0	0	0	-1.5	-1.61	2	2	0	1500	1500	0
10/31/2024 13:30	24105	EHAZ_T1	4	4	0	6.78	6.53	-0.25	0	0	0	0	0	0	0	0
10/31/2024 13:30	24102	EHAZ_T1	0	0	0	0	0	0	-0.04	-0.1	0	0	0	0	0	0
10/31/2024 13:30	24101	EHAZ_T1	2	1	-1	0.15	0.6	0.45	0	0	0	0	0	0	0	0
10/31/2024 13:31	48902	FOSP_T2	1	0	-1	0.1	0	-0.1	0.53	0.46	0	0	0	0	0	0
10/31/2024 13:32	52402	GRPA_T2	34	26	-8	0.44	0.48	0.04	0	0	0	0	0	0	0	0
10/31/2024 13:32	52404	GRPA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/31/2024 13:32	66302	MCGO_T2	462	211	-251	0.95	0.22	-0.73	-1.62	-0.89	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/31/2024 13:32	52403	GRPA_T2	20	19	-1	0.63	0.62	-0.01	0.14	0.15	0	0	0	0	0	0
10/31/2024 13:32	52401	GRPA_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
10/31/2024 13:33	48901	FOSP_T2	0	0	0	0	0	0	0	0.09	1	1	0	600	600	0
10/31/2024 13:33	66302	MCGO_T2	462	211	-251	0.95	0.22	-0.73	-1.62	-0.89	1	1	0	600	600	0
10/31/2024 13:33	48902	FOSP_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/31/2024 13:36	66302	MCGO_T2	462	211	-251	0.95	0.22	-0.73	-0.89	-0.97	1	1	0	600	600	0
10/31/2024 13:38	67002	STHI_T2	12	11	-1	0.3	0.35	0.05	0.81	0.81	0	0	0	0	0	0
10/31/2024 13:38	67001	STHI_T2	8	8	0	0.26	0.29	0.03	0	0	0	0	0	0	0	0
10/31/2024 13:41	45501	DERR_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/31/2024 13:41	45502	DERR_T2	0	0	0	0	0	0	0.15	0.07	1	1	0	300	300	0
10/31/2024 13:45	52401	GRPA_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
10/31/2024 13:45	52404	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
10/31/2024 13:45	52403	GRPA_T2	18	18	0	0.62	0.74	0.12	0.15	0.1	0	0	0	0	0	0
10/31/2024 13:45	52402	GRPA_T2	23	53	30	0.51	0.37	-0.14	0	0	0	0	0	0	0	0
10/31/2024 13:46	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 13:46	21206	ECAR_T2	1	1	0	7.6	7.5	-0.1	0.38	0.38	0	0	0	0	0	0
10/31/2024 13:46	24202	PROV_T4	1	1	0	1.2	0	-1.2	0	0	1	1	0	1200	1200	0
10/31/2024 13:54	15702	TANN_T2	0	0	0	0	0	0	-0.36	-0.29	0	0	0	0	0	0
10/31/2024 13:54	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
10/31/2024 13:58	14204	EALL_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
10/31/2024 14:02	40505	CRES_T1	0	0	0	0	0	0	0.82	0.75	0	0	0	0	0	0
10/31/2024 14:04	52404	GRPA_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
10/31/2024 14:04	52401	GRPA_T2	2	1	-1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
10/31/2024 14:04	40501	CRES_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
10/31/2024 14:04	40502	CRES_T2	4	3	-1	0.35	0.33	-0.02	-0.23	-0.25	0	0	0	0	0	0
10/31/2024 14:04	52402	GRPA_T2	23	50	27	0.48	0.35	-0.13	-0.91	-0.87	0	0	0	0	0	0
10/31/2024 14:04	52403	GRPA_T2	18	16	-2	0.53	0.86	0.33	0	0	0	0	0	0	0	0
10/31/2024 14:15	52401	GRPA_T2	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
10/31/2024 14:15	52403	GRPA_T2	14	16	2	0.78	0.84	0.06	0	0	0	0	0	0	0	0
10/31/2024 14:15	52402	GRPA_T2	50	16	-34	0.35	0.53	0.18	-0.87	-0.88	0	0	0	0	0	0
10/31/2024 14:15	52404	GRPA_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
10/31/2024 14:17	48901	FOSP_T2	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/31/2024 14:17	48902	FOSP_T2	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/31/2024 14:18	48901	FOSP_T2	1	2	1	0.3	0.35	0.05	-0.12	-0.13	1	1	0	600	600	0
10/31/2024 14:18	48902	FOSP_T2	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/31/2024 14:29	48901	FOSP_T2	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
10/31/2024 14:29	48902	FOSP_T2	1	2	1	0.3	0.35	0.05	0.42	0.3	0	0	0	0	0	0
10/31/2024 14:44	48901	FOSP_T2	1	2	1	0.2	0.35	0.15	-0.18	-0.23	1	1	0	600	600	0
10/31/2024 14:44	48902	FOSP_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
10/31/2024 14:46	40501	CRES_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
10/31/2024 14:46	40502	CRES_T2	3	1	-2	0.17	0.1	-0.07	-0.28	-0.27	0	0	0	0	0	0
10/31/2024 14:46	46101	MACI_T2	0	0	0	0	0	0	-0.02	0.15	1	1	0	1200	1200	0
10/31/2024 14:46	40701	FFLD_T1	25	25	0	0.16	0.2	0.04	0	0	0	0	0	0	0	0
10/31/2024 14:46	40702	FFLD_T1	1	2	1	0.2	0.2	0	-0.4	-0.42	1	1	0	1200	1200	0
10/31/2024 14:46	40703	FFLD_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
10/31/2024 14:49	40505	CRES_T1	0	0	0	0	0	0	1.46	1.4	0	0	0	0	0	0
10/31/2024 14:51	57205	ROSS_T1	1	1	0	0.3	0.5	0.2	-0.53	-0.48	1	1	0	900	900	0
10/31/2024 14:51	40505	CRES_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
10/31/2024 14:58	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 15:08	43801	SWIL_T1	1	2	1	5.9	3.05	-2.85	0	0	0	0	0	0	0	0
10/31/2024 15:08	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 15:09	58003	WCAR_T1	1	1	0	1	0.8	-0.2	0.39	0.41	1	1	0	600	600	0
10/31/2024 15:09	58001	WCAR_T1	4	4	0	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
10/31/2024 15:10	58003	WCAR_T1	1	1	0	1	0.8	-0.2	0.39	0.41	1	1	0	600	600	0
10/31/2024 15:10	58001	WCAR_T1	4	4	0	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
10/31/2024 15:11	58003	WCAR_T1	1	1	0	1	0.8	-0.2	0.39	0.41	1	1	0	600	600	0
10/31/2024 15:11	58001	WCAR_T1	4	4	0	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
10/31/2024 15:13	29402	BELT_T1	1	1	0	7.7	7.8	0.1	0	0	0	0	0	0	0	0
10/31/2024 15:13	29401	BELT_T1	1	1	0	0.2	0.1	-0.1	0	0	1	1	0	900	900	0
10/31/2024 15:16	46101	MACI_T2	0	0	0	0	0	0	-0.07	0.35	1	1	0	1200	1200	0
10/31/2024 15:19	46506	LOHA_T1	3	3	0	5.5	5.63	0.13	0	0	0	0	0	0	0	0
10/31/2024 15:19	46502	LOHA_T1	0	0	0	0	0	0	-1.22	-1.23	1	1	0	1200	1200	0
10/31/2024 15:19	46504	LOHA_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
10/31/2024 15:35	54603	SUMM_T2	0	0	0	0	0	0	0.22	0.21	1	1	0	900	900	0
10/31/2024 15:35	54602	SUMM_T2	16	16	0	0.69	0.81	0.12	0	0	0	0	0	0	0	0
10/31/2024 15:35	54601	SUMM_T2	9	10	1	0.49	0.58	0.09	0	0	0	0	0	0	0	0
10/31/2024 15:36	54602	SUMM_T2	16	16	0	0.69	0.81	0.12	0	0	0	0	0	0	0	0
10/31/2024 15:36	54603	SUMM_T2	0	0	0	0	0	0	0.21	0.22	1	1	0	900	900	0
10/31/2024 15:36	54601	SUMM_T2	9	10	1	0.49	0.58	0.09	0	0	0	0	0	0	0	0
10/31/2024 16:00	63501	HEID_TBK1-2	0	2	2	0	0.6	0.6	-0.14	-0.17	1	1	0	900	900	0
10/31/2024 16:03	20802	LOPO_T1	0	1	1	0	0.1	0.1	-0.59	-0.6	1	1	0	600	600	0
10/31/2024 16:07	54602	SUMM_T2	16	15	-1	0.74	0.61	-0.13	0	0	0	0	0	0	0	0
10/31/2024 16:07	54601	SUMM_T2	9	9	0	0.56	0.58	0.02	-3.85	-3.84	2	2	0	2100	2100	0
10/31/2024 16:10	54601	SUMM_T2	9	9	0	0.56	0.58	0.02	0	0	0	0	0	0	0	0
10/31/2024 16:10	54602	SUMM_T2	16	15	-1	0.74	0.61	-0.13	0	0	1	1	0	600	600	0
10/31/2024 16:19	46501	LOHA_T1	0	0	0	0	0	0	0.15	0.1	1	1	0	1200	1200	0
10/31/2024 16:19	46506	LOHA_T1	3	3	0	6.07	5.83	-0.24	0	0	0	0	0	0	0	0
10/31/2024 16:19	46504	LOHA_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
10/31/2024 16:25	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 16:25	67402	WAKE_T2	0	0	0	0	0	0	-0.29	-0.28	1	1	0	600	600	0
10/31/2024 16:32	63305	GREE_T1	3	3	0	0.15	0.17	0.02	-4.12	-4.18	2	2	0	1800	1800	0
10/31/2024 16:34	20802	LOPO_T1	1	1	0	0.1	0.1	0	-0.61	-0.59	1	1	0	600	600	0
10/31/2024 16:35	46002	BERW_T2	0	0	0	0	0	0	-1.14	-1.11	1	1	0	900	900	0
10/31/2024 16:35	40502	CRES_T2	22	17	-5	0.25	0.24	-0.01	-0.3	-0.3	0	0	0	0	0	0
10/31/2024 16:35	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 16:37	67502	WEWI_T2	19	99	80	0.1	0.21	0.11	-1.1	-1.12	1	1	0	900	900	0
10/31/2024 16:37	67503	WEWI_T2	1	1	0	7.3	7.6	0.3	0	0	0	0	0	0	0	0
10/31/2024 16:40	67502	WEWI_T2	19	99	80	0.1	0.21	0.11	-1.1	-1.12	1	1	0	900	900	0
10/31/2024 16:40	67503	WEWI_T2	1	1	0	7.3	7.6	0.3	0	0	0	0	0	0	0	0
10/31/2024 16:45	63305	GREE_T1	3	3	0	0.17	0.2	0.03	0	0	0	0	0	0	0	0
10/31/2024 16:45	63304	GREE_T1	0	0	0	0	0	0	-1.27	-1.4	0	0	0	0	0	0
10/31/2024 16:47	63305	GREE_T1	3	3	0	0.17	0.2	0.03	0	0	0	0	0	0	0	0
10/31/2024 16:47	63304	GREE_T1	0	0	0	0	0	0	-1.27	-1.4	0	0	0	0	0	0
10/31/2024 16:49	46506	LOHA_T1	3	3	0	5.83	5.17	-0.66	0	0	0	0	0	0	0	0
10/31/2024 16:49	46505	LOHA_T1	0	0	0	0	0	0	-0.34	0.3	1	0	-1	600	0	-600
10/31/2024 16:49	46504	LOHA_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
10/31/2024 16:51	67502	WEWI_T2	98	104	6	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
10/31/2024 16:51	67503	WEWI_T2	1	1	0	7.5	7.9	0.4	-0.13	-0.14	0	0	0	0	0	0
10/31/2024 16:52	43801	SWIL_T1	3	24	21	2.3	0.45	-1.85	0	0	0	0	0	0	0	0
10/31/2024 16:52	43802	SWIL_T1	0	0	0	0	0	0	-0.19	-0.22	1	1	0	600	600	0
10/31/2024 16:54	67402	WAKE_T2	0	0	0	0	0	0	-0.29	-0.28	1	1	0	600	600	0
10/31/2024 16:55	67402	WAKE_T2	0	0	0	0	0	0	-0.29	-0.28	1	1	0	600	600	0
10/31/2024 16:57	24902	WHHA_T1	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
10/31/2024 16:57	24901	WHHA_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
10/31/2024 16:58	44502	HAMI_T2	1	1	0	3.2	3.5	0.3	0	0	0	0	0	0	0	0
10/31/2024 16:58	44505	HAMI_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
10/31/2024 17:02	64203	KINZ_T1	0	0	0	0	0	0	0.26	0.12	1	1	0	600	600	0
10/31/2024 17:02	64204	KINZ_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
10/31/2024 17:02	64201	KINZ_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
10/31/2024 17:03	46004	BERW_T2	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
10/31/2024 17:08	67401	WAKE_T2	0	0	0	0	0	0	-1.03	-1.01	0	0	0	0	0	0
10/31/2024 17:08	64101	REFR_T1	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
10/31/2024 17:09	67401	WAKE_T2	0	0	0	0	0	0	-1.03	-1.01	0	0	0	0	0	0
10/31/2024 17:09	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.1	0	0	0	0	0	0
10/31/2024 17:11	59202	THOM_T1	290	373	83	0.3	0.47	0.17	0	0	0	0	0	0	0	0
10/31/2024 17:11	59201	THOM_T1	19	29	10	0.51	0.54	0.03	0	0	0	0	0	0	0	0
10/31/2024 17:11	44302	BEAV_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
10/31/2024 17:17	43506	WWIL_T1	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
10/31/2024 17:17	43504	WWIL_T1	6	8	2	0.17	0.18	0.01	0.67	0.67	0	0	0	0	0	0
10/31/2024 17:17	43505	WWIL_T1	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
10/31/2024 17:37	17802	GILB_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
10/31/2024 17:58	21502	CEAV_T2	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
10/31/2024 17:58	21501	CEAV_T2	0	0	0	0	0	0	0.33	1.61	1	0	-1	1200	0	-1200
10/31/2024 18:54	46502	LOHA_T1	0	0	0	0	0	0	-1.2	-1.32	1	1	0	1200	1200	0
10/31/2024 18:54	46506	LOHA_T1	3	4	1	4.5	3.53	-0.97	0	0	0	0	0	0	0	0
10/31/2024 19:53	20802	LOPO_T1	1	1	0	0.3	0.4	0.1	-0.61	-0.6	1	1	0	600	600	0
10/31/2024 19:54	15702	TANN_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
10/31/2024 19:54	23202	HIRU_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
10/31/2024 19:54	15703	TANN_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
10/31/2024 19:54	46002	BERW_T2	0	0	0	0	0	0	-0.27	-0.26	0	0	0	0	0	0
10/31/2024 19:55	29402	BELT_T1	1	1	0	7.4	7	-0.4	0	0	0	0	0	0	0	0
10/31/2024 19:55	17802	GILB_T1	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
10/31/2024 19:56	25402	LAHA_T2	0	0	0	0	0	0	-0.91	-0.91	0	0	0	0	0	0
10/31/2024 19:56	17805	GILB_T2	0	0	0	0	0	0	0.26	0.22	0	0	0	0	0	0
10/31/2024 19:57	17805	GILB_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
10/31/2024 19:57	14802	TREI_T2	0	1	1	0	0.1	0.1	0.39	0.37	0	0	0	0	0	0
10/31/2024 19:57	29402	BELT_T1	1	1	0	7.4	7	-0.4	0	0	0	0	0	0	0	0
10/31/2024 19:57	14801	TREI_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
10/31/2024 19:58	14204	EALL_T2	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
10/31/2024 19:58	29401	BELT_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
10/31/2024 19:58	29402	BELT_T1	1	1	0	7.4	7	-0.4	0	0	0	0	0	0	0	0
10/31/2024 19:58	54602	SUMM_T2	16	16	0	0.69	1.03	0.34	0	0	0	0	0	0	0	0
10/31/2024 19:58	54601	SUMM_T2	13	13	0	0.91	0.96	0.05	-4.03	-4.08	2	2	0	2100	2100	0
10/31/2024 19:59	65206	PRIN_T4	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/31/2024 19:59	54601	SUMM_T2	13	13	0	0.91	0.96	0.05	-4.03	-4.08	2	2	0	2100	2100	0
10/31/2024 19:59	15601	NSTR_T2	2	3	1	0.25	0.53	0.28	0	0	0	0	0	0	0	0
10/31/2024 19:59	43402	BENT_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	900	900	0
10/31/2024 19:59	54602	SUMM_T2	16	16	0	0.69	1.03	0.34	0	0	0	0	0	0	0	0
10/31/2024 19:59	65207	PRIN_T4	51	33	-18	0.18	0.18	0	0	0	2	2	0	1800	1800	0
10/31/2024 19:59	64903	MILL_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
10/31/2024 19:59	15603	NSTR_T2	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
10/31/2024 19:59	20802	LOPO_T1	1	1	0	0.3	0.4	0.1	-0.61	-0.6	1	1	0	600	600	0
10/31/2024 20:00	67002	STHI_T2	1	1	0	0.1	0.1	0	0.72	0.68	0	0	0	0	0	0
10/31/2024 20:00	40505	CRES_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
10/31/2024 20:00	54602	SUMM_T2	16	16	0	1.02	0.88	-0.14	0	0	0	0	0	0	0	0
10/31/2024 20:00	14801	TREI_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/31/2024 20:00	14802	TREI_T2	1	0	-1	0.1	0	-0.1	0.39	0.37	0	0	0	0	0	0
10/31/2024 20:00	54601	SUMM_T2	13	13	0	0.86	0.94	0.08	-4.03	-4.08	2	2	0	2100	2100	0
10/31/2024 20:00	55002	NEWP_T1	6	6	0	0.47	0.52	0.05	-0.25	-0.24	0	0	0	0	0	0
10/31/2024 20:00	64903	MILL_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
10/31/2024 20:00	67001	STHI_T2	55	52	-3	0.11	0.11	0	0	0	0	0	0	0	0	0
10/31/2024 20:00	13303	ORVI_T1	0	0	0	0	0	0	1.06	0.92	0	0	0	0	0	0
10/31/2024 20:01	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/31/2024 20:01	67001	STHI_T2	55	52	-3	0.11	0.11	0	0.15	0.15	0	0	0	0	0	0
10/31/2024 20:01	48902	FOSP_T2	4	5	1	0.13	0.14	0.01	0.05	0.04	0	0	0	0	0	0
10/31/2024 20:01	60803	BUCK_T1	12	4	-8	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
10/31/2024 20:01	14203	EALL_T1	0	0	0	0	0	0	-0.28	-0.39	1	1	0	1200	1200	0
10/31/2024 20:01	17805	GILB_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
10/31/2024 20:01	60801	BUCK_T1	34	18	-16	0.2	0.18	-0.02	-0.2	-0.17	0	0	0	0	0	0
10/31/2024 20:01	48901	FOSP_T2	3	3	0	0.17	0.13	-0.04	0.21	0.21	0	0	0	0	0	0
10/31/2024 20:01	64902	MILL_T2	0	0	0	0	0	0	-0.57	-0.55	1	1	0	900	900	0
10/31/2024 20:01	46004	BERW_T2	0	0	0	0	0	0	-0.54	-0.45	0	0	0	0	0	0
10/31/2024 20:01	11801	FRAN_T2	0	0	0	0	0	0	0.04	-0.02	0	0	0	0	0	0
10/31/2024 20:01	66504	SMAN_T2	0	0	0	0	0	0	-1.53	-1.54	1	1	0	1200	1200	0
10/31/2024 20:01	67002	STHI_T2	1	1	0	0.1	0.1	0	0.72	0.68	0	0	0	0	0	0
10/31/2024 20:02	63501	HEID_TBK1-2	39	43	4	0.56	0.64	0.08	-0.98	-1.22	3	3	0	2700	2700	0
10/31/2024 20:02	59201	THOM_T1	54	67	13	0.54	0.54	0	0	0	0	0	0	0	0	0
10/31/2024 20:02	48901	FOSP_T2	3	3	0	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
10/31/2024 20:02	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/31/2024 20:02	67001	STHI_T2	55	52	-3	0.11	0.11	0	0	0	0	0	0	0	0	0
10/31/2024 20:02	67502	WEWI_T2	41	59	18	0.14	0.17	0.03	-0.26	-0.22	0	0	0	0	0	0
10/31/2024 20:02	59202	THOM_T1	543	560	17	0.65	0.65	0	0	0	0	0	0	0	0	0
10/31/2024 20:02	67002	STHI_T2	1	1	0	0.1	0.1	0	0.72	0.68	0	0	0	0	0	0
10/31/2024 20:02	48902	FOSP_T2	4	5	1	0.13	0.14	0.01	0	0	0	0	0	0	0	0
10/31/2024 20:02	64902	MILL_T2	0	0	0	0	0	0	-1.14	-1.1	2	2	0	1800	1800	0
10/31/2024 20:02	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/31/2024 20:02	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0
10/31/2024 20:02	54506	ENOL_T2	0	0	0	0	0	0	0.64	0.7	1	1	0	600	600	0
10/31/2024 20:02	63304	GREE_T1	5	4	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/31/2024 20:02	67401	WAKE_T2	2	0	-2	0.2	0	-0.2	-1.11	-1.09	0	0	0	0	0	0
10/31/2024 20:02	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:02	67503	WEWI_T2	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
10/31/2024 20:02	63305	GREE_T1	0	5	5	0	0.18	0.18	-1.12	-1.28	0	0	0	0	0	0
10/31/2024 20:02	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
10/31/2024 20:03	48902	FOSP_T2	4	5	1	0.13	0.14	0.01	0	0	0	0	0	0	0	0
10/31/2024 20:03	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:03	67001	STHI_T2	55	52	-3	0.11	0.11	0	0	0	0	0	0	0	0	0
10/31/2024 20:03	48901	FOSP_T2	3	3	0	0.17	0.13	-0.04	0.21	0.21	0	0	0	0	0	0
10/31/2024 20:03	67002	STHI_T2	1	1	0	0.1	0.1	0	1.44	1.36	0	0	0	0	0	0
10/31/2024 20:03	14802	TREI_T2	1	0	-1	0.1	0	-0.1	0.39	0.37	0	0	0	0	0	0
10/31/2024 20:03	20403	ASHF_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
10/31/2024 20:03	40602	PIGR_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/31/2024 20:03	40601	PIGR_T1	5	9	4	0.14	0.12	-0.02	0	0	0	0	0	0	0	0
10/31/2024 20:03	66504	SMAN_T2	0	0	0	0	0	0	-3.05	-3.08	2	2	0	2400	2400	0
10/31/2024 20:03	20401	ASHF_T2	5	4	-1	0.42	0.48	0.06	0	0	0	0	0	0	0	0
10/31/2024 20:03	63501	HEID_TBK1-2	39	43	4	0.56	0.64	0.08	-0.33	-0.41	1	1	0	900	900	0
10/31/2024 20:03	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:03	14801	TREI_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
10/31/2024 20:03	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0
10/31/2024 20:03	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:03	67001	STHI_T2	55	52	-3	0.11	0.11	0	0	0	0	0	0	0	0	0
10/31/2024 20:04	54603	SUMM_T2	0	0	0	0	0	0	-0.1	-0.14	1	1	0	900	900	0
10/31/2024 20:04	54601	SUMM_T2	13	13	0	0.86	0.94	0.08	-4.03	-4.08	2	2	0	2100	2100	0
10/31/2024 20:04	54602	SUMM_T2	16	16	0	1.02	0.88	-0.14	0	0	0	0	0	0	0	0
10/31/2024 20:04	67502	WEWI_T2	41	59	18	0.14	0.17	0.03	-0.26	-0.22	0	0	0	0	0	0
10/31/2024 20:04	59202	THOM_T1	543	560	17	0.65	0.65	0	0	0	0	0	0	0	0	0
10/31/2024 20:04	58003	WCAR_T1	1	1	0	1.1	1.1	0	0.01	0.2	2	2	0	1200	1200	0
10/31/2024 20:04	64305	LINC_T1	0	0	0	0	0	0	-0.32	-0.43	0	0	0	0	0	0
10/31/2024 20:04	67001	STHI_T2	55	52	-3	0.11	0.11	0	0.15	0.15	0	0	0	0	0	0
10/31/2024 20:04	59201	THOM_T1	54	67	13	0.54	0.54	0	0	0	0	0	0	0	0	0
10/31/2024 20:04	67002	STHI_T2	1	1	0	0.1	0.1	0	0.72	0.68	0	0	0	0	0	0
10/31/2024 20:04	58001	WCAR_T1	4	4	0	1	1.03	0.03	0	0	0	0	0	0	0	0
10/31/2024 20:04	67503	WEWI_T2	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
10/31/2024 20:05	65503	MOJO_T2	1	3	2	0.1	0.1	0	-0.13	-0.19	0	0	0	0	0	0
10/31/2024 20:05	67002	STHI_T2	1	1	0	0.1	0.1	0	0.72	0.68	0	0	0	0	0	0
10/31/2024 20:05	17805	GILB_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
10/31/2024 20:05	65205	PRIN_T1	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
10/31/2024 20:05	67605	WARW_T1	12	8	-4	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
10/31/2024 20:05	65202	PRIN_T1	4	1	-3	0.23	0.6	0.37	0	0	0	0	0	0	0	0
10/31/2024 20:05	65502	MOJO_T2	150	137	-13	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
10/31/2024 20:05	67501	WEWI_T1	0	0	0	0	0	0	-0.98	-1.09	1	1	0	600	600	0
10/31/2024 20:05	67001	STHI_T2	55	52	-3	0.11	0.11	0	0	0	0	0	0	0	0	0
10/31/2024 20:05	67503	WEWI_T2	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
10/31/2024 20:05	67502	WEWI_T2	41	59	18	0.14	0.17	0.03	-0.26	-0.22	0	0	0	0	0	0
10/31/2024 20:05	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:05	67603	WARW_T1	0	0	0	0	0	0	0	-0.05	0	0	0	0	0	0
10/31/2024 20:06	55001	NEWP_T1	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
10/31/2024 20:06	40502	CRES_T2	51	52	1	0.43	0.32	-0.11	-0.34	-0.31	0	0	0	0	0	0
10/31/2024 20:06	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:06	55002	NEWP_T1	6	6	0	0.47	0.52	0.05	0	0	0	0	0	0	0	0
10/31/2024 20:06	66505	SMAN_T2	0	0	0	0	0	0	0.69	0.6	1	1	0	900	900	0
10/31/2024 20:06	45802	HEGI_T2	2	9	7	0.5	0.5	0	0.86	0.92	0	0	0	0	0	0
10/31/2024 20:06	64902	MILL_T2	0	0	0	0	0	0	-0.55	-0.55	1	1	0	900	900	0
10/31/2024 20:07	21204	ECAR_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
10/31/2024 20:07	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
10/31/2024 20:07	45802	HEGI_T2	2	9	7	0.5	0.5	0	0	0	0	0	0	0	0	0
10/31/2024 20:07	48901	FOSP_T2	3	3	0	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
10/31/2024 20:07	66303	MCGO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
10/31/2024 20:07	48902	FOSP_T2	4	5	1	0.13	0.14	0.01	0.04	0.03	0	0	0	0	0	0
10/31/2024 20:07	57104	SPHI_T2	2	2	0	3.65	1.4	-2.25	-0.99	-1.01	0	0	0	0	0	0
10/31/2024 20:07	43802	SWIL_T1	0	0	0	0	0	0	-0.24	-0.24	1	1	0	600	600	0
10/31/2024 20:07	67401	WAKE_T2	2	0	-2	0.2	0	-0.2	-1.09	-1.06	0	0	0	0	0	0
10/31/2024 20:07	44505	HAMI_T2	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
10/31/2024 20:07	43801	SWIL_T1	5	5	0	1.44	1.44	0	0	0	0	0	0	0	0	0
10/31/2024 20:07	57106	SPHI_T2	3	3	0	1.7	1.7	0	0	0	0	0	0	0	0	0
10/31/2024 20:07	57101	SPHI_T2	5	5	0	1.26	1.38	0.12	0	0	0	0	0	0	0	0
10/31/2024 20:07	21206	ECAR_T2	1	1	0	8.1	8.1	0	0	-0.03	0	0	0	0	0	0
10/31/2024 20:07	44502	HAMI_T2	1	1	0	3.9	3.1	-0.8	0	0	0	0	0	0	0	0
10/31/2024 20:07	44501	HAMI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/31/2024 20:07	66302	MCGO_T2	0	0	0	0	0	0	-3.24	-3.26	2	2	0	1200	1200	0
10/31/2024 20:08	63803	HEMP_T1	0	0	0	0	0	0	0.65	0.74	0	0	0	0	0	0
10/31/2024 20:08	59202	THOM_T1	543	560	17	0.65	0.65	0	0	0	0	0	0	0	0	0
10/31/2024 20:08	17805	GILB_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
10/31/2024 20:08	55103	WERT_T1	1	1	0	3.3	3.5	0.2	0	0	0	0	0	0	0	0
10/31/2024 20:08	64802	MONE_T2	15	2	-13	0.16	0.15	-0.01	0.22	0.24	0	0	0	0	0	0
10/31/2024 20:08	64801	MONE_T2	6	5	-1	0.23	0.14	-0.09	0	0	0	0	0	0	0	0
10/31/2024 20:08	55101	WERT_T1	0	0	0	0	0	0	-0.9	-0.93	1	1	0	600	600	0
10/31/2024 20:08	59301	MCAL_T1	25	36	11	0.22	0.21	-0.01	-1.2	-1.21	0	0	0	0	0	0
10/31/2024 20:08	59302	MCAL_T1	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
10/31/2024 20:08	63804	HEMP_T1	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
10/31/2024 20:08	52401	GRPA_T2	1	3	2	0.4	0.17	-0.23	0	0	0	0	0	0	0	0
10/31/2024 20:08	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/31/2024 20:08	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.27	0	0	0	0	0	0
10/31/2024 20:08	67401	WAKE_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/31/2024 20:08	52404	GRPA_T2	2	4	2	0.85	0.53	-0.32	0	0	0	0	0	0	0	0
10/31/2024 20:08	52403	GRPA_T2	11	9	-2	0.66	0.51	-0.15	0.02	0.01	0	0	0	0	0	0
10/31/2024 20:08	52402	GRPA_T2	77	75	-2	0.35	0.43	0.08	0	0	0	0	0	0	0	0
10/31/2024 20:08	59201	THOM_T1	54	67	13	0.54	0.54	0	0	0	0	0	0	0	0	0
10/31/2024 20:08	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:09	45501	DERR_T2	1	1	0	0.1	0	-0.1	0.18	0.3	2	2	0	1800	1800	0
10/31/2024 20:09	24202	PROV_T4	26	29	3	0.36	0.22	-0.14	0	0	1	1	0	1200	1200	0
10/31/2024 20:09	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:09	24206	PROV_T4	4	3	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
10/31/2024 20:09	40601	PIGR_T1	5	9	4	0.14	0.12	-0.02	-0.78	-0.7	0	0	0	0	0	0
10/31/2024 20:09	40602	PIGR_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
10/31/2024 20:09	23901	EFMO_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
10/31/2024 20:09	21501	CEAV_T2	0	0	0	0	0	0	1.27	1.22	0	0	0	0	0	0
10/31/2024 20:10	43505	WWIL_T1	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
10/31/2024 20:10	43301	WATS_T2	0	1	1	0	0	0	0.14	0.15	0	0	0	0	0	0
10/31/2024 20:10	43302	WATS_T2	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0	0
10/31/2024 20:10	43802	SWIL_T1	0	0	0	0	0	0	-0.24	-0.24	1	1	0	600	600	0
10/31/2024 20:10	46506	LOHA_T1	4	3	-1	3.08	5.07	1.99	0	0	0	0	0	0	0	0
10/31/2024 20:10	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
10/31/2024 20:10	43506	WWIL_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
10/31/2024 20:10	15001	BLMO_T1	3	1	-2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/31/2024 20:10	45701	LIND_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
10/31/2024 20:10	46101	MACI_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
10/31/2024 20:10	45702	LIND_T2	17	77	60	0.26	0.21	-0.05	-0.68	-0.69	0	0	0	0	0	0
10/31/2024 20:10	43402	BENT_T1	0	0	0	0	0	0	-0.86	-0.87	1	1	0	900	900	0
10/31/2024 20:10	44802	EDAN_T2	0	0	0	0	0	0	-0.74	-0.77	0	0	0	0	0	0
10/31/2024 20:10	15702	TANN_T2	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
10/31/2024 20:10	46501	LOHA_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
10/31/2024 20:10	46504	LOHA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/31/2024 20:10	43801	SWIL_T1	5	5	0	1.44	1.44	0	0	0	0	0	0	0	0	0
10/31/2024 20:10	43504	WWIL_T1	14	15	1	0.29	0.29	0	0.67	0.64	0	0	0	0	0	0
10/31/2024 20:11	44502	HAMI_T2	1	1	0	3.9	3.1	-0.8	0	0	0	0	0	0	0	0
10/31/2024 20:11	17804	GILB_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
10/31/2024 20:11	14801	TREI_T2	1	2	1	0.2	0.2	0	0.4	0.38	0	0	0	0	0	0
10/31/2024 20:11	14802	TREI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/31/2024 20:11	10801	CHHI_T1	0	0	0	0	0	0	-1.4	-1.37	2	2	0	1500	1500	0
10/31/2024 20:11	40702	FFLD_T1	111	118	7	0.3	0.36	0.06	-0.8	-0.72	1	1	0	1200	1200	0
10/31/2024 20:11	40701	FFLD_T1	36	42	6	0.58	0.52	-0.06	0	0	0	0	0	0	0	0
10/31/2024 20:11	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
10/31/2024 20:11	44501	HAMI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/31/2024 20:11	24901	WHHA_T1	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
10/31/2024 20:11	44505	HAMI_T2	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
10/31/2024 20:11	40703	FFLD_T1	4	4	0	0.4	0.48	0.08	0	0	0	0	0	0	0	0
10/31/2024 20:11	54601	SUMM_T2	13	13	0	0.86	0.94	0.08	0	0	0	0	0	0	0	0
10/31/2024 20:11	44801	EDAN_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
10/31/2024 20:11	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
10/31/2024 20:11	54602	SUMM_T2	16	16	0	1.02	0.88	-0.14	0	0	1	1	0	600	600	0
10/31/2024 20:11	20603	GRWO_T2	3	0	-3	0.1	0	-0.1	0.33	0.34	0	0	0	0	0	0
10/31/2024 20:12	40502	CRES_T2	51	52	1	0.43	0.32	-0.11	-0.31	-0.34	0	0	0	0	0	0
10/31/2024 20:12	45802	HEGI_T2	2	9	7	0.5	0.5	0	0	0	0	0	0	0	0	0
10/31/2024 20:12	48901	FOSP_T2	3	3	0	0.17	0.13	-0.04	0.21	0.25	0	0	0	0	0	0
10/31/2024 20:12	46504	LOHA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/31/2024 20:12	40303	TAMA_T3	0	0	0	0	0	0	1.94	1.99	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/31/2024 20:12	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:12	44802	EDAN_T2	0	0	0	0	0	0	-1.47	-1.54	0	0	0	0	0	0
10/31/2024 20:12	45501	DERR_T2	1	1	0	0.1	0	-0.1	0.18	0.3	2	2	0	1800	1800	0
10/31/2024 20:12	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
10/31/2024 20:12	45702	LIND_T2	17	77	60	0.26	0.21	-0.05	-0.68	-0.69	0	0	0	0	0	0
10/31/2024 20:12	44501	HAMI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/31/2024 20:12	46506	LOHA_T1	4	3	-1	3.08	5.07	1.99	0	0	0	0	0	0	0	0
10/31/2024 20:12	20603	GRWO_T2	3	0	-3	0.1	0	-0.1	0.33	0.34	0	0	0	0	0	0
10/31/2024 20:12	44505	HAMI_T2	0	0	0	0	0	0	0.94	0.96	0	0	0	0	0	0
10/31/2024 20:12	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:12	48902	FOSP_T2	4	5	1	0.13	0.14	0.01	0	0	0	0	0	0	0	0
10/31/2024 20:12	44502	HAMI_T2	1	1	0	3.9	3.1	-0.8	0	0	0	0	0	0	0	0
10/31/2024 20:13	67002	STHI_T2	1	1	0	0.1	0.1	0	0.68	0.67	0	0	0	0	0	0
10/31/2024 20:13	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:13	45802	HEGI_T2	2	9	7	0.5	0.5	0	0.92	0.85	0	0	0	0	0	0
10/31/2024 20:13	43304	WATS_T2	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
10/31/2024 20:13	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:13	46506	LOHA_T1	4	3	-1	3.08	5.07	1.99	0	0	0	0	0	0	0	0
10/31/2024 20:13	10805	CHHI_T2	1	1	0	8.3	8.7	0.4	-0.88	-0.96	1	1	0	600	600	0
10/31/2024 20:13	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
10/31/2024 20:13	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:13	41901	REED_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/31/2024 20:13	40101	HUNT_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:13	48901	FOSP_T2	3	3	0	0.17	0.13	-0.04	0.21	0.25	0	0	0	0	0	0
10/31/2024 20:13	44502	HAMI_T2	1	1	0	3.9	3.1	-0.8	0	0	0	0	0	0	0	0
10/31/2024 20:13	41902	REED_T1	0	0	0	0	0	0	0.96	1	0	0	0	0	0	0
10/31/2024 20:13	44802	EDAN_T2	0	0	0	0	0	0	-0.74	-0.77	0	0	0	0	0	0
10/31/2024 20:13	43302	WATS_T2	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0	0
10/31/2024 20:13	46504	LOHA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
10/31/2024 20:13	44501	HAMI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/31/2024 20:13	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:13	67001	STHI_T2	55	52	-3	0.11	0.11	0	0	0	0	0	0	0	0	0
10/31/2024 20:13	48902	FOSP_T2	4	5	1	0.13	0.14	0.01	0	0	0	0	0	0	0	0
10/31/2024 20:14	44502	HAMI_T2	1	1	0	3.9	3.1	-0.8	0	0	0	0	0	0	0	0
10/31/2024 20:14	46001	BERW_T1	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
10/31/2024 20:14	15001	BLMO_T1	3	1	-2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/31/2024 20:14	10801	CHHI_T1	0	0	0	0	0	0	-1.4	-1.37	2	2	0	1500	1500	0
10/31/2024 20:14	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:14	58402	MORO_T1	0	0	0	0	0	0	-0.16	-0.15	2	2	0	1500	1500	0
10/31/2024 20:14	40601	PIGR_T1	5	9	4	0.14	0.12	-0.02	0	0	0	0	0	0	0	0
10/31/2024 20:14	44501	HAMI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/31/2024 20:14	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:14	55002	NEWP_T1	6	6	0	0.47	0.52	0.05	-0.24	-0.25	0	0	0	0	0	0
10/31/2024 20:14	40602	PIGR_T1	1	2	1	0.4	0.3	-0.1	-0.66	-0.68	1	1	0	600	600	0
10/31/2024 20:15	52401	GRPA_T2	3	2	-1	0.13	0.25	0.12	-0.36	-0.38	0	0	0	0	0	0
10/31/2024 20:15	40505	CRES_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
10/31/2024 20:15	44505	HAMI_T2	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
10/31/2024 20:15	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:15	44302	BEAV_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
10/31/2024 20:15	40602	PIGR_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/31/2024 20:15	43302	WATS_T2	4	1	-3	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
10/31/2024 20:15	44802	EDAN_T2	0	0	0	0	0	0	-0.74	-0.77	0	0	0	0	0	0
10/31/2024 20:15	52403	GRPA_T2	8	11	3	0.55	0.55	0	0	0	0	0	0	0	0	0
10/31/2024 20:15	45501	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:15	14802	TREI_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
10/31/2024 20:15	52404	GRPA_T2	4	1	-3	0.53	1.6	1.07	0	0	0	0	0	0	0	0
10/31/2024 20:15	43304	WATS_T2	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
10/31/2024 20:15	67001	STHI_T2	4	129	125	0.2	0.1	-0.1	0.15	0.13	0	0	0	0	0	0
10/31/2024 20:15	67002	STHI_T2	0	3	3	0	0.1	0.1	0.68	0.67	0	0	0	0	0	0
10/31/2024 20:15	44502	HAMI_T2	1	1	0	3.1	2.9	-0.2	0	0	0	0	0	0	0	0
10/31/2024 20:15	40601	PIGR_T1	9	0	-9	0.12	0	-0.12	0	0	0	0	0	0	0	0
10/31/2024 20:15	52402	GRPA_T2	72	79	7	0.43	0.48	0.05	0	0	0	0	0	0	0	0
10/31/2024 20:15	14801	TREI_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/31/2024 20:15	45502	DERR_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
10/31/2024 20:15	46801	HEPB_T2	2	2	0	0.75	0.75	0	0.53	0.53	0	0	0	0	0	0
10/31/2024 20:16	55002	NEWP_T1	6	4	-2	0.52	0.35	-0.17	-0.24	-0.25	0	0	0	0	0	0
10/31/2024 20:16	52404	GRPA_T2	4	1	-3	0.53	1.6	1.07	0	0	0	0	0	0	0	0
10/31/2024 20:16	59201	THOM_T1	66	55	-11	0.53	0.53	0	0	0	0	0	0	0	0	0
10/31/2024 20:16	52402	GRPA_T2	72	79	7	0.43	0.48	0.05	-0.77	-0.81	0	0	0	0	0	0
10/31/2024 20:16	46101	MACI_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
10/31/2024 20:16	57205	ROSS_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
10/31/2024 20:16	40601	PIGR_T1	9	0	-9	0.12	0	-0.12	-0.78	-0.7	0	0	0	0	0	0
10/31/2024 20:16	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:16	40602	PIGR_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
10/31/2024 20:16	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:16	63305	GREE_T1	3	8	5	0.2	0.2	0	0	0	0	0	0	0	0	0
10/31/2024 20:16	52401	GRPA_T2	3	2	-1	0.13	0.25	0.12	0	0	0	0	0	0	0	0
10/31/2024 20:16	63304	GREE_T1	0	39	39	0	0.11	0.11	-1.74	-1.64	0	0	0	0	0	0
10/31/2024 20:16	13302	DRVI_T2	0	0	0	0	0	0	1.56	1.55	0	0	0	0	0	0
10/31/2024 20:16	59202	THOM_T1	556	508	-48	0.65	0.57	-0.08	0	0	0	0	0	0	0	0
10/31/2024 20:16	52403	GRPA_T2	8	11	3	0.55	0.55	0	0	0	0	0	0	0	0	0
10/31/2024 20:16	41801	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
10/31/2024 20:16	67602	WARW_T2	0	0	0	0	0	0	0.99	0.99	1	1	0	300	300	0
10/31/2024 20:16	40502	CRES_T2	46	38	-8	0.34	0.34	0	-0.31	-0.34	0	0	0	0	0	0
10/31/2024 20:16	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:17	52404	GRPA_T2	4	1	-3	0.53	1.6	1.07	0	0	0	0	0	0	0	0
10/31/2024 20:17	52403	GRPA_T2	8	11	3	0.55	0.55	0	0.02	0.01	0	0	0	0	0	0
10/31/2024 20:17	52401	GRPA_T2	3	2	-1	0.13	0.25	0.12	0	0	0	0	0	0	0	0
10/31/2024 20:17	67002	STHI_T2	0	3	3	0	0.1	0.1	0.68	0.67	0	0	0	0	0	0
10/31/2024 20:17	63804	HEMP_T1	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
10/31/2024 20:17	64101	REFR_T1	0	0	0	0	0	0	-1.02	-0.66	0	0	0	0	0	0
10/31/2024 20:17	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:17	63305	GREE_T1	3	8	5	0.2	0.2	0	-1.28	-1.32	0	0	0	0	0	0
10/31/2024 20:17	67602	WARW_T2	0	0	0	0	0	0	0.99	0.99	1	1	0	300	300	0
10/31/2024 20:17	20401	ASHF_T2	4	4	0	0.48	0.48	0	0	0	0	0	0	0	0	0
10/31/2024 20:17	52402	GRPA_T2	72	79	7	0.43	0.48	0.05	-1.54	-1.62	0	0	0	0	0	0
10/31/2024 20:17	20403	ASHF_T2	0	0	0	0	0	0	0.13	0.08	0	0	0	0	0	0
10/31/2024 20:17	54001	SDLE_T1	299	197	-102	0.42	0.33	-0.09	0	0	0	0	0	0	0	0
10/31/2024 20:17	43302	WATS_T2	4	1	-3	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
10/31/2024 20:17	63302	GREE_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
10/31/2024 20:17	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.27	0	0	0	0	0	0
10/31/2024 20:17	67001	STHI_T2	4	129	125	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
10/31/2024 20:17	63304	GREE_T1	0	39	39	0	0.11	0.11	0	0	0	0	0	0	0	0
10/31/2024 20:17	53501	EVIL_T2	2	2	0	0.5	0.65	0.15	-0.8	-0.77	1	1	0	600	600	0
10/31/2024 20:17	63801	HEMP_T1	0	0	0	0	0	0	0.07	0.38	0	0	0	0	0	0
10/31/2024 20:18	57401	SPAN_T1	2	2	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
10/31/2024 20:18	52402	GRPA_T2	72	79	7	0.43	0.48	0.05	-0.77	-0.81	0	0	0	0	0	0
10/31/2024 20:18	58003	WCAR_T1	1	1	0	1.1	1.1	0	0.1	0.01	1	1	0	600	600	0
10/31/2024 20:18	40601	PIGR_T1	9	0	-9	0.12	0	-0.12	0	0	0	0	0	0	0	0
10/31/2024 20:18	41902	REED_T1	0	0	0	0	0	0	0.96	1	0	0	0	0	0	0
10/31/2024 20:18	55105	WERT_T1	0	0	0	0	0	0	-0.5	-0.49	1	1	0	900	900	0
10/31/2024 20:18	58001	WCAR_T1	4	4	0	1.03	1	-0.03	0	0	0	0	0	0	0	0
10/31/2024 20:18	67501	WEWI_T1	0	5	5	0	0.1	0.1	-1.09	-1.15	1	1	0	600	600	0
10/31/2024 20:18	52401	GRPA_T2	3	2	-1	0.13	0.25	0.12	0	0	0	0	0	0	0	0
10/31/2024 20:18	57403	SPAN_T1	24	40	16	0.26	0.27	0.01	0.06	-0.02	0	0	0	0	0	0
10/31/2024 20:18	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
10/31/2024 20:18	67002	STHI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
10/31/2024 20:18	66502	SMAN_T2	0	0	0	0	0	0	0.08	0.15	0	0	0	0	0	0
10/31/2024 20:18	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/31/2024 20:18	55101	WERT_T1	0	0	0	0	0	0	-0.9	-0.93	1	1	0	600	600	0
10/31/2024 20:18	40602	PIGR_T1	1	1	0	0.3	0.3	0	-1.33	-1.35	2	2	0	1200	1200	0
10/31/2024 20:18	52404	GRPA_T2	4	1	-3	0.53	1.6	1.07	0	0	0	0	0	0	0	0
10/31/2024 20:18	55103	WERT_T1	1	1	0	3.5	3.7	0.2	0	0	0	0	0	0	0	0
10/31/2024 20:18	44802	EDAN_T2	0	0	0	0	0	0	-0.74	-0.77	0	0	0	0	0	0
10/31/2024 20:18	52403	GRPA_T2	8	11	3	0.55	0.55	0	0	0	0	0	0	0	0	0
10/31/2024 20:18	13704	SCHN_T2	0	0	0	0	0	0	-0.4	-0.43	0	0	0	0	0	0
10/31/2024 20:18	67001	STHI_T2	4	129	125	0.2	0.1	-0.1	0.15	0.13	0	0	0	0	0	0
10/31/2024 20:19	54603	SUMM_T2	0	0	0	0	0	0	-0.14	-0.14	1	1	0	900	900	0
10/31/2024 20:19	67602	WARW_T2	0	0	0	0	0	0	1.98	1.98	2	2	0	600	600	0
10/31/2024 20:19	54602	SUMM_T2	16	0	0	0.88	0.49	-0.39	0	0	0	0	0	0	0	0
10/31/2024 20:19	52401	GRPA_T2	3	2	-1	0.13	0.25	0.12	0	0	0	0	0	0	0	0
10/31/2024 20:19	67805	WLAN_T1	0	0	0	0	0	0	-0.34	-0.58	0	0	0	0	0	0
10/31/2024 20:19	54601	SUMM_T2	13	13	0	0.92	0.84	-0.08	0	0	0	0	0	0	0	0
10/31/2024 20:19	52404	GRPA_T2	4	1	-3	0.53	1.6	1.07	0	0	0	0	0	0	0	0
10/31/2024 20:19	52402	GRPA_T2	72	79	7	0.43	0.48	0.05	-0.77	-0.81	0	0	0	0	0	0
10/31/2024 20:19	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.11	0	0	0	0	0	0
10/31/2024 20:19	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.27	0	0	0	0	0	0
10/31/2024 20:19	63501	HEID_TBK1-2	38	44	6	0.57	0.69	0.12	-0.41	-0.4	1	1	0	900	900	0
10/31/2024 20:19	52403	GRPA_T2	8	11	3	0.55	0.55	0	0	0	0	0	0	0	0	0
10/31/2024 20:20	46504	LOHA_T1	1	2	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
10/31/2024 20:20	54601	SUMM_T2	13	13	0	0.92	0.84	-0.08	-4.08	-4.06	2	2	0	2100	2100	0
10/31/2024 20:20	54602	SUMM_T2	16	16	0	0.88	0.49	-0.39	0	0	0	0	0	0	0	0
10/31/2024 20:20	66504	SMAN_T2	0	0	0	0	0	0	-1.54	-1.57	1	1	0	1200	1200	0
10/31/2024 20:20	63501	HEID_TBK1-2	38	44	6	0.57	0.69	0.12	-0.41	-0.4	1	1	0	900	900	0
10/31/2024 20:20	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
10/31/2024 20:20	58401	MORO_T1	0	0	0	0	0	0	-3.31	-3.41	2	2	0	1200	1200	0
10/31/2024 20:20	46506	LOHA_T1	3	3	0	4.97	5.4	0.43	0	0	0	0	0	0	0	0
10/31/2024 20:21	52402	GRPA_T2	72	79	7	0.43	0.48	0.05	0	0	0	0	0	0	0	0
10/31/2024 20:21	58402	MORO_T1	0	0	0	0	0	0	-0.15	-0.2	2	2	0	1500	1500	0
10/31/2024 20:21	52401	GRPA_T2	3	2	-1	0.13	0.25	0.12	0	0	0	0	0	0	0	0
10/31/2024 20:21	58401	MORO_T1	0	0	0	0	0	0	-1.71	-1.72	1	1	0	600	600	0
10/31/2024 20:21	52403	GRPA_T2	8	11	3	0.55	0.55	0	0.01	0.02	0	0	0	0	0	0
10/31/2024 20:21	52404	GRPA_T2	4	1	-3	0.53	1.6	1.07	0	0	0	0	0	0	0	0
10/31/2024 20:22	63304	GREE_T1	0	39	39	0	0.11	0.11	-1.64	-1.68	0	0	0	0	0	0
10/31/2024 20:22	63305	GREE_T1	3	8	5	0.2	0.2	0	0	0	0	0	0	0	0	0
10/31/2024 20:22	64203	KINZ_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
10/31/2024 20:22	58401	MORO_T1	0	0	0	0	0	0	-1.71	-1.72	1	1	0	600	600	0
10/31/2024 20:22	64201	KINZ_T1	2	7	5	0.2	0.29	0.09	0	0	0	0	0	0	0	0
10/31/2024 20:22	64202	KINZ_T1	3	3	0	0.2	0.57	0.37	0	0	0	0	0	0	0	0
10/31/2024 20:22	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
10/31/2024 20:22	64204	KINZ_T1	1	11	10	0.7	0.21	-0.49	0	0	0	0	0	0	0	0
10/31/2024 20:24	46802	HEPB_T1	1	1	0	1.1	1	-0.1	-0.31	-0.29	0	0	0	0	0	0
10/31/2024 20:26	46506	LOHA_T1	3	3	0	4.97	5.4	0.43	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
10/31/2024 20:26	46504	LOHA_T1	1	2	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
10/31/2024 20:26	46505	LOHA_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
10/31/2024 20:29	40602	PIGR_T1	1	1	0	0.3	0.3	0	-0.68	-0.71	1	1	0	600	600	0
10/31/2024 20:29	40601	PIGR_T1	9	0	-9	0.12	0	-0.12	0	0	0	0	0	0	0	0
10/31/2024 22:57	24105	EHAZ_T1	4	4	0	5.73	5.73	0	0	0	0	0	0	0	0	0
10/31/2024 22:57	24102	EHAZ_T1	0	0	0	0	0	0	0.69	0.7	0	0	0	0	0	0
10/31/2024 23:04	28403	HART_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
11/1/2024 8:51	45702	LIND_T2	1	1	0	0.5	0.6	0.1	-0.54	-0.55	0	0	0	0	0	0
11/1/2024 9:17	45701	LIND_T2	0	0	0	0	0	0	-0.27	-0.22	0	0	0	0	0	0
11/1/2024 9:17	45702	LIND_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/1/2024 9:21	15603	NSTR_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
11/1/2024 9:21	15601	NSTR_T2	2	3	1	0.15	0.5	0.35	0	0	0	0	0	0	0	0
11/1/2024 9:28	45303	WBER_T2	1	1	0	9.3	9.4	0.1	0	0	0	0	0	0	0	0
11/1/2024 9:28	45302	WBER_T2	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
11/1/2024 9:31	63501	HEID_TBK1-2	6	2	-4	0.45	1.1	0.65	-0.12	-0.13	1	1	0	900	900	0
11/1/2024 9:31	45801	HEGI_T1	0	0	0	0	0	0	-0.16	-0.07	1	1	0	900	900	0
11/1/2024 9:32	63501	HEID_TBK1-2	6	2	-4	0.45	1.1	0.65	-0.12	-0.13	1	1	0	900	900	0
11/1/2024 9:33	63501	HEID_TBK1-2	6	2	-4	0.45	1.1	0.65	-0.12	-0.13	1	1	0	900	900	0
11/1/2024 9:34	20802	LOPO_T1	0	1	1	0	0.1	0.1	-0.61	-0.62	1	1	0	600	600	0
11/1/2024 9:36	55002	NEWP_T1	10	9	-1	0.78	1.12	0.34	-0.22	-0.22	0	0	0	0	0	0
11/1/2024 9:37	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 9:38	55002	NEWP_T1	10	9	-1	0.78	1.12	0.34	-0.22	-0.22	0	0	0	0	0	0
11/1/2024 9:39	42204	SHEN_T2	0	0	0	0	0	0	-0.55	-0.56	1	1	0	1200	1200	0
11/1/2024 9:41	59201	THOM_T1	10	21	11	0.19	0.31	0.12	0	0	0	0	0	0	0	0
11/1/2024 9:41	59202	THOM_T1	171	296	125	0.19	0.29	0.1	0	0	0	0	0	0	0	0
11/1/2024 9:41	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 9:41	46004	BERW_T2	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
11/1/2024 9:42	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 9:43	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 9:45	60201	ATGL_T2	0	0	0	0	0	0	-0.02	-0.09	0	0	0	0	0	0
11/1/2024 9:47	14204	EALL_T2	0	0	0	0	0	0	-0.36	-0.42	0	0	0	0	0	0
11/1/2024 9:50	50501	MECH_T1	4	4	0	1.25	1.28	0.03	-1	-0.82	0	0	0	0	0	0
11/1/2024 9:50	50502	MECH_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
11/1/2024 9:51	50501	MECH_T1	4	4	0	1.25	1.28	0.03	-0.82	-0.66	0	0	0	0	0	0
11/1/2024 9:51	50502	MECH_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
11/1/2024 9:53	59301	MCAL_T1	35	20	-15	0.26	0.42	0.16	-1.14	-1.13	0	0	0	0	0	0
11/1/2024 9:53	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/1/2024 9:57	59202	THOM_T1	295	104	-191	0.29	0.2	-0.09	0	0	0	0	0	0	0	0
11/1/2024 9:57	59201	THOM_T1	21	8	-13	0.31	0.24	-0.07	0	0	0	0	0	0	0	0
11/1/2024 9:57	40301	TAMA_T3	1	1	0	0	0	0	0.92	1	2	2	0	1800	1800	0
11/1/2024 9:59	17002	RIRO_T2	64	54	-10	0.19	0.15	-0.04	0.66	0.67	0	0	0	0	0	0
11/1/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.72	0.76	0	0	0	0	0	0
11/1/2024 10:00	20802	LOPO_T1	0	1	1	0	0.1	0.1	-0.6	-0.61	1	1	0	600	600	0
11/1/2024 10:00	52402	GRPA_T2	6	18	12	0.98	0.51	-0.47	0	0	0	0	0	0	0	0
11/1/2024 10:00	52404	GRPA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/1/2024 10:00	41801	GOCI_T2	4	2	-2	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
11/1/2024 10:00	52403	GRPA_T2	14	58	44	0.29	0.34	0.05	0.01	0.04	0	0	0	0	0	0
11/1/2024 10:00	28102	TWLA_T2	13	24	11	0.45	0.66	0.21	0.16	0.18	0	0	0	0	0	0
11/1/2024 10:00	63501	HEID_TBK1-2	2	2	0	1	0.7	-0.3	-0.17	-0.18	1	1	0	900	900	0
11/1/2024 10:04	15203	SFAR_T2	0	0	0	0	0	0	-1.27	-1.2	0	0	0	0	0	0
11/1/2024 10:07	54502	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
11/1/2024 10:07	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	-1.41	-1.38	1	1	0	600	600	0
11/1/2024 10:07	67503	WEWI_T2	1	1	0	8.6	8.5	-0.1	-0.25	-0.26	0	0	0	0	0	0
11/1/2024 10:07	54501	ENOL_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
11/1/2024 10:08	22405	MORG_T2	0	0	0	0	0	0	-0.39	-0.29	0	0	0	0	0	0
11/1/2024 10:08	22401	MORG_T2	6	6	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
11/1/2024 10:08	22406	MORG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/1/2024 10:10	58001	WCAR_T1	4	4	0	0.83	0.6	-0.23	0	0	0	0	0	0	0	0
11/1/2024 10:10	58003	WCAR_T1	1	1	0	0.7	0.8	0.1	0.26	0.3	1	1	0	600	600	0
11/1/2024 10:10	24202	PROV_T4	1	0	-1	2.6	0	-2.6	0	0	1	1	0	1200	1200	0
11/1/2024 10:12	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 10:12	15703	TANN_T2	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
11/1/2024 10:12	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.47	0	0	0	0	0	0
11/1/2024 10:14	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 10:14	21206	ECAR_T2	1	2	1	8	8	0	0.25	0.31	0	0	0	0	0	0
11/1/2024 10:14	46001	BERW_T1	0	0	0	0	0	0	0.75	0	0	0	0	0	0	0
11/1/2024 10:15	23901	EFMO_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
11/1/2024 10:16	46002	BERW_T2	0	0	0	0	0	0	-0.88	0	1	1	0	900	900	0
11/1/2024 10:18	63501	HEID_TBK1-2	2	3	1	0.5	0.5	0	-0.18	-0.16	1	1	0	900	900	0
11/1/2024 10:19	63501	HEID_TBK1-2	2	3	1	0.5	0.5	0	-0.18	-0.16	1	1	0	900	900	0
11/1/2024 10:20	25402	LAHA_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
11/1/2024 10:21	63501	HEID_TBK1-2	2	3	1	0.5	0.5	0	-0.16	-0.1	1	1	0	900	900	0
11/1/2024 10:23	40301	TAMA_T3	1	1	0	0	0	0	0.9	0.95	2	2	0	1800	1800	0
11/1/2024 10:25	10101	ALLE_T3	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
11/1/2024 10:25	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 10:25	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 10:25	10102	ALLE_T2	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
11/1/2024 10:25	10206	ALLE_T2	1	1	0	2	1.5	-0.5	0	0	0	0	0	0	0	0
11/1/2024 10:26	42701	AUGU_T1	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
11/1/2024 10:26	17002	RIRO_T2	25	64	39	0.13	0.17	0.04	0.61	0.57	0	0	0	0	0	0
11/1/2024 10:27	42701	AUGU_T1	1	2	1	0.4	0.4	0	0	0	2	2	0	1800	1800	0
11/1/2024 10:27	43304	WATS_T2	0	0	0	0	0	0	-0.73	-0.59	0	0	0	0	0	0
11/1/2024 10:27	43301	WATS_T2	1	2	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
11/1/2024 10:29	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 10:29	43301	WATS_T2	1	2	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
11/1/2024 10:30	42701	AUGU_T1	1	2	1	0.6	0.5	-0.1	0	0	4	4	0	3600	3600	0
11/1/2024 10:31	17802	GILB_T1	0	4	4	0	0.38	0.38	0.07	0.02	0	0	0	0	0	0
11/1/2024 10:32	17805	GILB_T2	3	1	-2	0.47	0.2	-0.27	0.17	0.23	0	0	0	0	0	0
11/1/2024 10:32	17804	GILB_T2	5	4	-1	0.52	0.53	0.01	-0.61	-0.61	0	0	0	0	0	0
11/1/2024 10:33	63305	GREE_T1	0	0	0	0	0	0	-1.8	-1.69	1	1	0	900	900	0
11/1/2024 10:33	23902	EFMO_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
11/1/2024 10:34	64902	MILL_T2	0	0	0	0	0	0	-0.59	-0.62	1	1	0	900	900	0
11/1/2024 10:34	64904	MILL_T1	0	1	1	0	0.2	0.2	-0.48	-0.44	0	0	0	0	0	0
11/1/2024 10:34	17804	GILB_T2	5	4	-1	0.52	0.53	0.01	0	0	0	0	0	0	0	0
11/1/2024 10:34	17805	GILB_T2	3	1	-2	0.47	0.2	-0.27	0.17	0.23	0	0	0	0	0	0
11/1/2024 10:35	64904	MILL_T1	0	1	1	0	0.2	0.2	-0.48	-0.44	0	0	0	0	0	0
11/1/2024 10:35	64904	MILL_T1	0	1	1	0	0.2	0.2	-0.48	-0.88	0	0	0	0	0	0
11/1/2024 10:35	64904	MILL_T1	0	1	1	0	0.2	0.2	-0.95	-0.44	0	0	0	0	0	0
11/1/2024 10:35	64904	MILL_T1	0	1	1	0	0.2	0.2	-0.95	-0.88	0	0	0	0	0	0
11/1/2024 10:35	17805	GILB_T2	3	1	-2	0.47	0.2	-0.27	0.34	0.46	0	0	0	0	0	0
11/1/2024 10:35	17804	GILB_T2	5	4	-1	0.52	0.53	0.01	0	0	0	0	0	0	0	0
11/1/2024 10:36	63305	GREE_T1	0	0	0	0	0	0	-1.69	-1.61	1	1	0	900	900	0
11/1/2024 10:38	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
11/1/2024 10:38	15702	TANN_T2	0	0	0	0	0	0	-0.66	-0.83	0	0	0	0	0	0
11/1/2024 10:39	66903	SHIL_T2	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
11/1/2024 10:39	66901	SHIL_T2	7	13	6	0.13	0.17	0.04	0	0	0	0	0	0	0	0
11/1/2024 10:39	66902	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 10:41	66903	SHIL_T2	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
11/1/2024 10:41	66902	SHIL_T2	0	1	1	0	0.1	0.1	-0.94	-0.9	0	0	0	0	0	0
11/1/2024 10:41	66901	SHIL_T2	7	13	6	0.13	0.17	0.04	-3.18	-3.08	2	2	0	2400	2400	0
11/1/2024 10:42	66902	SHIL_T2	0	1	1	0	0.1	0.1	-0.94	-0.9	0	0	0	0	0	0
11/1/2024 10:42	66901	SHIL_T2	7	13	6	0.13	0.17	0.04	0	0	0	0	0	0	0	0
11/1/2024 10:42	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 10:42	66903	SHIL_T2	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
11/1/2024 10:42	43301	WATS_T2	1	2	1	0.8	0.55	-0.25	-0.84	-0.8	1	1	0	900	900	0
11/1/2024 10:43	10705	CATA_T2	0	1	1	0	0.5	0.5	0.02	0.02	0	0	0	0	0	0
11/1/2024 10:43	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	-0.72	0.21	2	1	-1	1500	600	-900
11/1/2024 10:43	10707	CATA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/1/2024 10:44	14204	EALL_T2	0	0	0	0	0	0	-0.31	-0.39	0	0	0	0	0	0
11/1/2024 10:44	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 10:44	10705	CATA_T2	0	1	1	0	0.5	0.5	0.02	0.02	0	0	0	0	0	0
11/1/2024 10:44	10707	CATA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/1/2024 10:44	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	-1.44	0.42	4	2	-2	3000	1200	-1800
11/1/2024 10:44	64904	MILL_T1	0	1	1	0	0.2	0.2	-0.44	-0.38	0	0	0	0	0	0
11/1/2024 10:45	43301	WATS_T2	2	1	-1	0.55	1	0.45	0	0	0	0	0	0	0	0
11/1/2024 10:45	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 10:45	43304	WATS_T2	0	0	0	0	0	0	-0.59	-0.31	0	0	0	0	0	0
11/1/2024 10:46	10705	CATA_T2	0	1	1	0	0.5	0.5	0.02	0.02	0	0	0	0	0	0
11/1/2024 10:46	10707	CATA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/1/2024 10:48	66902	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/1/2024 10:48	10707	CATA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/1/2024 10:48	66901	SHIL_T2	5	12	7	0.16	0.18	0.02	0	0	0	0	0	0	0	0
11/1/2024 10:48	66903	SHIL_T2	1	1	0	0.6	1	0.4	-1.74	-1.66	0	0	0	0	0	0
11/1/2024 10:48	10705	CATA_T2	0	1	1	0	0.5	0.5	0.02	0.02	0	0	0	0	0	0
11/1/2024 10:49	40303	TAMA_T3	0	0	0	0	0	0	2.43	2.4	0	0	0	0	0	0
11/1/2024 10:49	40301	TAMA_T3	1	2	1	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 10:50	66902	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/1/2024 10:50	66903	SHIL_T2	1	1	0	0.6	1	0.4	-0.87	-0.83	0	0	0	0	0	0
11/1/2024 10:50	66901	SHIL_T2	5	12	7	0.16	0.18	0.02	0	0	0	0	0	0	0	0
11/1/2024 10:51	55002	NEWP_T1	8	11	3	1.08	1.1	0.02	-0.2	-0.22	0	0	0	0	0	0
11/1/2024 10:51	47203	FAKO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
11/1/2024 10:52	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 10:53	66901	SHIL_T2	5	12	7	0.16	0.18	0.02	0	0	0	0	0	0	0	0
11/1/2024 10:53	55002	NEWP_T1	8	11	3	1.08	1.1	0.02	-0.2	-0.22	0	0	0	0	0	0
11/1/2024 10:53	66903	SHIL_T2	1	1	0	0.6	1	0.4	-1.66	-1.63	0	0	0	0	0	0
11/1/2024 10:53	55001	NEWP_T1	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
11/1/2024 10:53	66902	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/1/2024 10:54	67703	WERN_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/1/2024 10:54	67002	STHI_T2	9	9	0	0.2	0.21	0.01	0.85	0.85	0	0	0	0	0	0
11/1/2024 10:54	67001	STHI_T2	7	9	2	0.31	0.26	-0.05	0.1	0.11	0	0	0	0	0	0
11/1/2024 10:55	67703	WERN_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/1/2024 10:55	67002	STHI_T2	9	9	0	0.2	0.21	0.01	3.38	3.39	0	0	0	0	0	0
11/1/2024 10:55	67001	STHI_T2	7	9	2	0.31	0.26	-0.05	0.1	0.11	0	0	0	0	0	0
11/1/2024 10:55	55002	NEWP_T1	8	11	3	1.08	1.1	0.02	-0.2	-0.22	0	0	0	0	0	0
11/1/2024 10:55	13701	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 10:55	13704	SCHN_T2	1	1	0	0.1	0.1	0	-0.29	-0.32	0	0	0	0	0	0
11/1/2024 10:56	14801	TREI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/1/2024 10:56	67703	WERN_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/1/2024 10:56	66903	SHIL_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
11/1/2024 10:56	66901	SHIL_T2	5	12	7	0.16	0.18	0.02	-1.54	-1.54	1	1	0	1200	1200	0
11/1/2024 10:56	14802	TREI_T2	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
11/1/2024 10:56	66902	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/1/2024 10:57	67001	STHI_T2	7	9	2	0.31	0.26	-0.05	0.2	0.22	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/1/2024 10:57	67002	STHI_T2	9	9	0	0.2	0.21	0.01	0.85	0.85	0	0	0	0	0	0
11/1/2024 10:58	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 10:58	43301	WATS_T2	2	1	-1	0.55	1	0.45	0	0	0	0	0	0	0	0
11/1/2024 10:58	10801	CHHI_T1	5	6	1	0.34	0.4	0.06	-1.25	-1.25	2	2	0	1500	1500	0
11/1/2024 10:58	67002	STHI_T2	9	9	0	0.2	0.21	0.01	1.69	1.69	0	0	0	0	0	0
11/1/2024 10:58	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 10:58	14801	TREI_T2	0	1	1	0	0.5	0.5	0.33	0.36	0	0	0	0	0	0
11/1/2024 10:58	67001	STHI_T2	7	9	2	0.31	0.26	-0.05	0	0	0	0	0	0	0	0
11/1/2024 10:59	67002	STHI_T2	9	9	0	0.2	0.21	0.01	0.85	0.85	0	0	0	0	0	0
11/1/2024 10:59	67001	STHI_T2	7	9	2	0.31	0.26	-0.05	0	0	0	0	0	0	0	0
11/1/2024 11:01	45802	HEGI_T2	10	15	5	0.31	0.41	0.1	0.78	0.37	1	2	1	900	1200	300
11/1/2024 11:01	10801	CHHI_T1	4	7	3	0.25	0.49	0.24	-1.25	-1.25	2	2	0	1500	1500	0
11/1/2024 11:02	45702	LIND_T2	2	2	0	0.45	0.45	0	-0.36	-0.39	0	0	0	0	0	0
11/1/2024 11:03	45702	LIND_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
11/1/2024 11:03	45701	LIND_T2	0	0	0	0	0	0	-0.26	-0.19	0	0	0	0	0	0
11/1/2024 11:03	65503	MOJO_T2	0	0	0	0	0	0	-0.95	-0.92	1	1	0	900	900	0
11/1/2024 11:03	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 11:04	45802	HEGI_T2	10	15	5	0.31	0.41	0.1	0.78	0.37	1	2	1	900	1200	300
11/1/2024 11:05	64305	LINC_T1	0	0	0	0	0	0	0.03	0.09	0	0	0	0	0	0
11/1/2024 11:09	67002	STHI_T2	8	13	5	0.2	0.24	0.04	0.85	0.86	0	0	0	0	0	0
11/1/2024 11:09	66505	SMAN_T2	0	0	0	0	0	0	0.71	0.79	2	2	0	1100	1100	0
11/1/2024 11:09	67001	STHI_T2	7	11	4	0.27	0.31	0.04	0	0	0	0	0	0	0	0
11/1/2024 11:09	65503	MOJO_T2	0	0	0	0	0	0	-0.92	-0.89	1	1	0	900	900	0
11/1/2024 11:12	15001	BLMO_T1	4	5	1	0.13	0.22	0.09	0	0	0	0	0	0	0	0
11/1/2024 11:12	20403	ASHF_T2	2	7	5	0.1	0.39	0.29	1.28	1.21	0	0	0	0	0	0
11/1/2024 11:13	43402	BENT_T1	2	4	2	0.25	0.6	0.35	-0.56	-0.57	1	1	0	900	900	0
11/1/2024 11:13	15001	BLMO_T1	4	5	1	0.13	0.22	0.09	0	0	0	0	0	0	0	0
11/1/2024 11:13	43802	SWIL_T1	0	1	1	0	0	0	-0.21	-0.2	1	1	0	600	600	0
11/1/2024 11:13	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 11:13	43801	SWIL_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
11/1/2024 11:14	44801	EDAN_T2	3	5	2	0.6	0.48	-0.12	-0.71	-0.72	0	0	0	0	0	0
11/1/2024 11:15	20401	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 11:15	41602	CLEV_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/1/2024 11:15	20403	ASHF_T2	2	8	6	0.2	0.38	0.18	1.28	1.21	0	0	0	0	0	0
11/1/2024 11:15	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 11:16	44802	EDAN_T2	0	1	1	0	0.2	0.2	-8.11	-7.96	0	0	0	0	0	0
11/1/2024 11:16	43402	BENT_T1	2	5	3	0.9	0.5	-0.4	-0.56	-0.57	1	1	0	900	900	0
11/1/2024 11:16	44801	EDAN_T2	3	6	3	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
11/1/2024 11:17	44801	EDAN_T2	3	6	3	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
11/1/2024 11:17	14204	EALL_T2	0	0	0	0	0	0	-0.23	-0.37	0	0	0	0	0	0
11/1/2024 11:17	44802	EDAN_T2	0	1	1	0	0.2	0.2	-2.03	-1.99	0	0	0	0	0	0
11/1/2024 11:17	41602	CLEV_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/1/2024 11:18	23201	HIRU_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/1/2024 11:18	23203	HIRU_T2	0	0	0	0	0	0	0.06	0.15	0	0	0	0	0	0
11/1/2024 11:19	44802	EDAN_T2	0	1	1	0	0.2	0.2	-2.03	-1.99	0	0	0	0	0	0
11/1/2024 11:19	44801	EDAN_T2	3	6	3	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
11/1/2024 11:20	44802	EDAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/1/2024 11:20	44801	EDAN_T2	3	6	3	0.7	0.53	-0.17	-0.35	-0.36	0	0	0	0	0	0
11/1/2024 11:22	54201	PENN_T1	175	232	57	0.35	0.39	0.04	0	0	0	0	0	0	0	0
11/1/2024 11:22	54203	PENN_T1	30	75	45	0.92	0.48	-0.44	-1.01	-1.01	0	0	0	0	0	0
11/1/2024 11:22	54205	PENN_T1	0	18	18	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 11:24	54205	PENN_T1	0	18	18	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 11:24	54203	PENN_T1	30	75	45	0.92	0.48	-0.44	0	0	0	0	0	0	0	0
11/1/2024 11:24	54201	PENN_T1	175	232	57	0.35	0.39	0.04	0	0	0	0	0	0	0	0
11/1/2024 11:26	51102	CARL_T1	13	10	-3	0.18	0.31	0.13	0	0	0	0	0	0	0	0
11/1/2024 11:26	14802	TREI_T2	0	1	1	0	0.2	0.2	0.41	0.45	0	0	0	0	0	0
11/1/2024 11:26	14801	TREI_T2	1	2	1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
11/1/2024 11:26	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 11:26	51101	CARL_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
11/1/2024 11:26	40201	BEGA_T2	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
11/1/2024 11:26	67501	WEWI_T1	1	4	3	0.2	0.4	0.2	-0.97	-0.88	1	1	0	600	600	0
11/1/2024 11:26	51108	CARL_T1	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
11/1/2024 11:27	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 11:28	67502	WEWI_T2	2	2	0	0.25	0.45	0.2	-0.07	-0.19	0	0	0	0	0	0
11/1/2024 11:28	67503	WEWI_T2	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
11/1/2024 11:28	67501	WEWI_T1	1	4	3	0.2	0.4	0.2	-0.97	-0.88	1	1	0	600	600	0
11/1/2024 11:29	67502	WEWI_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
11/1/2024 11:29	67503	WEWI_T2	1	1	0	8.2	8.3	0.1	-0.15	-0.2	0	0	0	0	0	0
11/1/2024 11:30	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 11:30	40201	BEGA_T2	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0	0
11/1/2024 11:32	63501	HEID_TBK1-2	5	3	-2	0.54	0.8	0.26	-0.05	-0.06	1	1	0	900	900	0
11/1/2024 11:33	52401	GRPA_T2	0	1	1	0	0.5	0.5	-0.38	-0.38	0	0	0	0	0	0
11/1/2024 11:33	52402	GRPA_T2	10	23	13	0.71	0.56	-0.15	0	0	0	0	0	0	0	0
11/1/2024 11:33	52403	GRPA_T2	23	109	86	0.58	0.35	-0.23	0	0	0	0	0	0	0	0
11/1/2024 11:33	52404	GRPA_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/1/2024 11:33	63501	HEID_TBK1-2	5	3	-2	0.54	0.8	0.26	-0.05	-0.06	1	1	0	900	900	0
11/1/2024 11:34	21206	ECAR_T2	1	1	0	7.2	7.5	0.3	0	0	0	0	0	0	0	0
11/1/2024 11:34	21204	ECAR_T2	1	1	0	0	0	0	-0.76	-0.73	0	0	0	0	0	0
11/1/2024 11:35	52404	GRPA_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/1/2024 11:35	52401	GRPA_T2	0	1	1	0	0.5	0.5	-0.38	-0.38	0	0	0	0	0	0
11/1/2024 11:35	58402	MORO_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
11/1/2024 11:35	58401	MORO_T1	0	0	0	0	0	0	-1.37	-1.38	1	1	0	600	600	0
11/1/2024 11:35	52402	GRPA_T2	10	23	13	0.71	0.56	-0.15	0	0	0	0	0	0	0	0
11/1/2024 11:35	52403	GRPA_T2	23	109	86	0.58	0.35	-0.23	0.08	0.07	0	0	0	0	0	0
11/1/2024 11:36	63501	HEID_TBK1-2	5	3	-2	0.54	0.8	0.26	-0.06	-0.07	1	1	0	900	900	0
11/1/2024 11:37	54505	ENOL_T2	1	2	1	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
11/1/2024 11:37	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/1/2024 11:37	54506	ENOL_T2	0	0	0	0	0	0	0.65	0.57	1	1	0	600	600	0
11/1/2024 11:37	54502	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
11/1/2024 11:37	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 11:37	58402	MORO_T1	0	2	2	0	0.5	0.5	-0.05	-0.12	2	2	0	1500	1500	0
11/1/2024 11:38	58402	MORO_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
11/1/2024 11:38	58401	MORO_T1	0	0	0	0	0	0	-1.38	-1.4	1	1	0	600	600	0
11/1/2024 11:41	67703	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/1/2024 11:41	67001	STHI_T2	10	11	1	0.33	0.36	0.03	0	0	0	0	0	0	0	0
11/1/2024 11:41	67002	STHI_T2	13	21	8	0.24	0.25	0.01	0.9	0.83	0	0	0	0	0	0
11/1/2024 11:42	66502	SMAN_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
11/1/2024 11:42	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 11:43	58003	WCAR_T1	1	1	0	0.7	0.8	0.1	0.37	0.37	1	1	0	600	600	0
11/1/2024 11:43	58001	WCAR_T1	4	4	0	0.78	0.9	0.12	0	0	0	0	0	0	0	0
11/1/2024 11:44	58003	WCAR_T1	1	1	0	0.7	0.8	0.1	0.37	0.37	1	1	0	600	600	0
11/1/2024 11:44	58001	WCAR_T1	4	4	0	0.78	0.9	0.12	0	0	0	0	0	0	0	0
11/1/2024 11:49	23201	HIRU_T2	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
11/1/2024 11:49	23202	HIRU_T2	0	1	1	0	0.1	0.1	0.09	0.08	0	0	0	0	0	0
11/1/2024 11:54	14203	EALL_T1	2	3	1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
11/1/2024 11:54	59202	THOM_T1	200	305	105	0.26	0.29	0.03	0	0	0	0	0	0	0	0
11/1/2024 11:54	15103	UPHA_T2	0	2	2	0	0.4	0.4	0.49	0.5	0	0	0	0	0	0
11/1/2024 11:54	59201	THOM_T1	8	15	7	0.29	0.25	-0.04	0	0	0	0	0	0	0	0
11/1/2024 11:54	14201	EALL_T1	0	0	0	0	0	0	0.7	0.66	0	0	0	0	0	0
11/1/2024 11:56	24805	VALM_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
11/1/2024 11:56	26002	WDAM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 11:56	24801	VALM_T1	1	2	1	0.3	0.35	0.05	-0.28	-0.29	0	0	0	0	0	0
11/1/2024 11:56	64303	LINC_T1	0	0	0	0	0	0	-0.15	-0.05	0	0	0	0	0	0
11/1/2024 11:57	60801	BUCK_T1	0	2	2	0	0.2	0.2	0.05	-0.12	0	0	0	0	0	0
11/1/2024 11:58	59202	THOM_T1	200	305	105	0.26	0.29	0.03	0	0	0	0	0	0	0	0
11/1/2024 11:58	59201	THOM_T1	8	15	7	0.29	0.25	-0.04	0	0	0	0	0	0	0	0
11/1/2024 11:59	46003	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 11:59	46004	BERW_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
11/1/2024 11:59	46002	BERW_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/1/2024 12:01	10109	ALLE_T3	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/1/2024 12:01	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 12:02	46003	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 12:02	63302	GREE_T1	0	0	0	0	0	0	0.77	0.7	0	0	0	0	0	0
11/1/2024 12:02	46002	BERW_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
11/1/2024 12:02	46004	BERW_T2	3	2	-1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
11/1/2024 12:03	46002	BERW_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
11/1/2024 12:03	46004	BERW_T2	3	2	-1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
11/1/2024 12:03	40902	JESH_T1	1	1	0	0.1	0.2	0.1	-0.4	-0.46	0	0	0	0	0	0
11/1/2024 12:03	46003	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 12:03	40901	JESH_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/1/2024 12:04	20603	GRWO_T2	1	2	1	0.1	0.25	0.15	0.43	0.45	0	0	0	0	0	0
11/1/2024 12:04	40902	JESH_T1	1	1	0	0.1	0.2	0.1	-0.81	-0.93	0	0	0	0	0	0
11/1/2024 12:04	40901	JESH_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/1/2024 12:07	40901	JESH_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/1/2024 12:07	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 12:07	40902	JESH_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/1/2024 12:07	64101	REFR_T1	0	0	0	0	0	0	-0.33	-0.27	0	0	0	0	0	0
11/1/2024 12:08	14401	SSLA_T1	2	2	0	0.65	1	0.35	0	0	0	0	0	0	0	0
11/1/2024 12:08	14402	SSLA_T1	4	4	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
11/1/2024 12:08	14404	SSLA_T1	5	5	0	0.34	0.38	0.04	0.01	0.01	0	0	0	0	0	0
11/1/2024 12:08	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.18	0	0	0	0	0	0
11/1/2024 12:08	14403	SSLA_T1	4	7	3	0.58	0.4	-0.18	0	0	0	0	0	0	0	0
11/1/2024 12:09	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/1/2024 12:09	66504	SMAN_T2	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
11/1/2024 12:09	14801	TREI_T2	3	6	3	0.47	0.33	-0.14	0	0	0	0	0	0	0	0
11/1/2024 12:09	14802	TREI_T2	2	3	1	0.15	0.23	0.08	0.44	0.46	0	0	0	0	0	0
11/1/2024 12:09	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
11/1/2024 12:10	14801	TREI_T2	3	6	3	0.47	0.33	-0.14	0	0	0	0	0	0	0	0
11/1/2024 12:10	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
11/1/2024 12:10	14802	TREI_T2	2	3	1	0.15	0.23	0.08	0.88	0.92	0	0	0	0	0	0
11/1/2024 12:11	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
11/1/2024 12:11	14401	SSLA_T1	2	2	0	0.65	1	0.35	0	0	0	0	0	0	0	0
11/1/2024 12:11	14403	SSLA_T1	4	7	3	0.58	0.4	-0.18	0.64	0.64	0	0	0	0	0	0
11/1/2024 12:11	14801	TREI_T2	3	6	3	0.47	0.33	-0.14	0	0	0	0	0	0	0	0
11/1/2024 12:11	14402	SSLA_T1	4	4	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
11/1/2024 12:11	14802	TREI_T2	2	3	1	0.15	0.23	0.08	0.44	0.46	0	0	0	0	0	0
11/1/2024 12:11	14404	SSLA_T1	5	5	0	0.34	0.38	0.04	0	0	0	0	0	0	0	0
11/1/2024 12:12	14402	SSLA_T1	4	4	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
11/1/2024 12:12	14404	SSLA_T1	5	5	0	0.34	0.38	0.04	0	0	0	0	0	0	0	0
11/1/2024 12:12	14401	SSLA_T1	2	2	0	0.65	1	0.35	-0.41	-0.39	0	0	0	0	0	0
11/1/2024 12:12	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.18	0	0	0	0	0	0
11/1/2024 12:12	14403	SSLA_T1	4	7	3	0.58	0.4	-0.18	0	0	0	0	0	0	0	0
11/1/2024 12:13	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.18	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/1/2024 12:14	10109	ALLE_T3	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/1/2024 12:15	14204	EALL_T2	0	0	0	0	0	0	-0.34	-0.43	0	0	0	0	0	0
11/1/2024 12:16	48902	FOSP_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
11/1/2024 12:16	48901	FOSP_T2	0	2	2	0	0.35	0.35	-0.02	-0.02	1	1	0	600	600	0
11/1/2024 12:17	48901	FOSP_T2	0	2	2	0	0.35	0.35	-0.02	-0.02	1	1	0	600	600	0
11/1/2024 12:17	48902	FOSP_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
11/1/2024 12:18	44502	HAMI_T2	1	1	0	3	3	0	0	0	0	0	0	0	0	0
11/1/2024 12:18	57106	SPHI_T2	3	3	0	1.2	1.17	-0.03	0	0	0	0	0	0	0	0
11/1/2024 12:18	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
11/1/2024 12:18	42701	AUGU_T1	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
11/1/2024 12:18	48902	FOSP_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
11/1/2024 12:18	57101	SPHI_T2	5	5	0	0.82	0.9	0.08	0	0	0	0	0	0	0	0
11/1/2024 12:18	52403	GRPA_T2	211	282	71	0.61	0.57	-0.04	0	0	0	0	0	0	0	0
11/1/2024 12:18	57104	SPHI_T2	4	4	0	0.83	2.1	1.27	-1.63	-1.61	1	1	0	900	900	0
11/1/2024 12:18	52402	GRPA_T2	67	98	31	0.39	0.4	0.01	-0.7	-0.71	0	0	0	0	0	0
11/1/2024 12:18	44505	HAMI_T2	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
11/1/2024 12:18	52401	GRPA_T2	4	5	1	0.28	0.4	0.12	0	0	0	0	0	0	0	0
11/1/2024 12:18	48901	FOSP_T2	0	2	2	0	0.35	0.35	-0.07	-0.07	3	3	0	1800	1800	0
11/1/2024 12:18	52404	GRPA_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/1/2024 12:19	48901	FOSP_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
11/1/2024 12:19	42902	MIDD_T2	3	2	-1	0.23	0.45	0.22	-1.17	-1.14	2	2	0	1200	1200	0
11/1/2024 12:19	52403	GRPA_T2	211	282	71	0.61	0.57	-0.04	0	0	0	0	0	0	0	0
11/1/2024 12:19	52401	GRPA_T2	4	5	1	0.28	0.4	0.12	0	0	0	0	0	0	0	0
11/1/2024 12:19	52404	GRPA_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/1/2024 12:19	48902	FOSP_T2	1	2	1	0.1	0.35	0.25	0.78	0.38	0	0	0	0	0	0
11/1/2024 12:19	52402	GRPA_T2	67	98	31	0.39	0.4	0.01	-1.4	-1.42	0	0	0	0	0	0
11/1/2024 12:20	52401	GRPA_T2	4	5	1	0.28	0.4	0.12	0	0	0	0	0	0	0	0
11/1/2024 12:20	52404	GRPA_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/1/2024 12:20	52403	GRPA_T2	211	282	71	0.61	0.57	-0.04	0.02	0.03	0	0	0	0	0	0
11/1/2024 12:20	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 12:20	52402	GRPA_T2	67	98	31	0.39	0.4	0.01	0	0	0	0	0	0	0	0
11/1/2024 12:20	44502	HAMI_T2	1	1	0	3	3	0	0	0	0	0	0	0	0	0
11/1/2024 12:21	44502	HAMI_T2	1	1	0	3	3	0	0	0	0	0	0	0	0	0
11/1/2024 12:21	44505	HAMI_T2	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
11/1/2024 12:22	42902	MIDD_T2	3	2	-1	0.23	0.45	0.22	-0.57	-0.58	1	1	0	600	600	0
11/1/2024 12:23	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 12:23	52404	GRPA_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/1/2024 12:23	52403	GRPA_T2	211	282	71	0.61	0.57	-0.04	0.03	0.03	0	0	0	0	0	0
11/1/2024 12:23	42902	MIDD_T2	3	2	-1	0.23	0.45	0.22	0	0	0	0	0	0	0	0
11/1/2024 12:23	52401	GRPA_T2	4	5	1	0.28	0.4	0.12	0	0	0	0	0	0	0	0
11/1/2024 12:23	52402	GRPA_T2	67	98	31	0.39	0.4	0.01	-1.42	-1.4	0	0	0	0	0	0
11/1/2024 12:24	52404	GRPA_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/1/2024 12:24	52401	GRPA_T2	4	5	1	0.28	0.4	0.12	0	0	0	0	0	0	0	0
11/1/2024 12:24	44902	SCOT_T2	3	3	0	0.2	0.2	0	-0.8	-0.71	0	0	0	0	0	0
11/1/2024 12:24	52403	GRPA_T2	211	282	71	0.61	0.57	-0.04	0.03	0.03	0	0	0	0	0	0
11/1/2024 12:24	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 12:24	44901	SCOT_T2	2	2	0	0.5	0.5	0	0.34	0.26	0	0	0	0	0	0
11/1/2024 12:24	43801	SWIL_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
11/1/2024 12:24	52402	GRPA_T2	67	98	31	0.39	0.4	0.01	0	0	0	0	0	0	0	0
11/1/2024 12:25	59302	MCAL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 12:25	59301	MCAL_T1	17	39	22	0.52	0.34	-0.18	-0.98	-1.03	0	0	0	0	0	0
11/1/2024 12:29	10705	CATA_T2	0	1	1	0	0.2	0.2	0.1	0.09	0	0	0	0	0	0
11/1/2024 12:29	10707	CATA_T2	0	3	3	0	0.53	0.53	0	0	0	0	0	0	0	0
11/1/2024 12:33	64101	REFR_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
11/1/2024 12:33	46802	HEPB_T1	5	5	0	0.44	0.26	-0.18	-0.27	-0.26	0	0	0	0	0	0
11/1/2024 12:34	20603	GRWO_T2	2	0	-2	0.2	0	-0.2	0.45	0.43	0	0	0	0	0	0
11/1/2024 12:36	41801	GOCI_T2	7	6	-1	0.66	0.5	-0.16	0	0	0	0	0	0	0	0
11/1/2024 12:39	66504	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/1/2024 12:39	66501	SMAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/1/2024 12:42	42701	AUGU_T1	2	2	0	0.6	0.65	0.05	0	0	2	2	0	1800	1800	0
11/1/2024 12:43	42701	AUGU_T1	2	2	0	0.6	0.65	0.05	0	0	2	2	0	1800	1800	0
11/1/2024 12:43	66504	SMAN_T2	0	1	1	0	0.5	0.5	-0.31	-0.34	0	0	0	0	0	0
11/1/2024 12:43	66501	SMAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/1/2024 12:44	60801	BUCK_T1	1	1	0	0.3	0.3	0	-0.14	-0.14	0	0	0	0	0	0
11/1/2024 12:52	15701	TANN_T1	2	3	1	2.3	1.83	-0.47	0	0	0	0	0	0	0	0
11/1/2024 12:52	15704	TANN_T1	0	245	245	0	0	0	-0.03	-0.18	0	0	0	0	0	0
11/1/2024 12:56	66501	SMAN_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/1/2024 12:56	66504	SMAN_T2	1	1	0	0.5	0.4	-0.1	-0.69	-0.54	0	0	0	0	0	0
11/1/2024 12:57	15702	TANN_T2	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
11/1/2024 12:57	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
11/1/2024 13:05	44802	EDAN_T2	2	1	-1	0.3	0.4	0.1	-1.96	-1.93	0	0	0	0	0	0
11/1/2024 13:05	44801	EDAN_T2	5	5	0	0.48	0.52	0.04	0	0	0	0	0	0	0	0
11/1/2024 13:06	50505	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/1/2024 13:06	50506	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/1/2024 13:06	50501	MECH_T1	4	4	0	0.98	0.9	-0.08	-0.72	-0.76	0	0	0	0	0	0
11/1/2024 13:06	50502	MECH_T1	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
11/1/2024 13:07	59301	MCAL_T1	7	6	-1	0.83	0.78	-0.05	-0.9	-0.93	0	0	0	0	0	0
11/1/2024 13:08	41902	REED_T1	0	0	0	0	0	0	1	1.03	0	0	0	0	0	0
11/1/2024 13:10	67401	WAKE_T2	3	3	0	0.47	0.23	-0.24	0	0	0	0	0	0	0	0
11/1/2024 13:10	67402	WAKE_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
11/1/2024 13:11	41902	REED_T1	0	0	0	0	0	0	1	1.03	0	0	0	0	0	0
11/1/2024 13:12	67402	WAKE_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
11/1/2024 13:12	67401	WAKE_T2	3	3	0	0.47	0.23	-0.24	0	0	0	0	0	0	0	0
11/1/2024 13:14	40505	CRES_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
11/1/2024 13:15	40505	CRES_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
11/1/2024 13:17	40501	CRES_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
11/1/2024 13:17	40502	CRES_T2	3	10	7	0.2	0.17	-0.03	-0.19	-0.18	0	0	0	0	0	0
11/1/2024 13:21	63305	GREE_T1	6	8	2	0.22	0.33	0.11	0	0	0	0	0	0	0	0
11/1/2024 13:21	63306	GREE_T1	2	2	0	0.4	0.45	0.05	-3.84	-3.81	2	2	0	1800	1800	0
11/1/2024 13:21	63303	GREE_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/1/2024 13:23	63303	GREE_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/1/2024 13:23	63305	GREE_T1	6	8	2	0.22	0.33	0.11	0	0	0	0	0	0	0	0
11/1/2024 13:23	63306	GREE_T1	2	2	0	0.4	0.45	0.05	-1.92	-1.91	1	1	0	900	900	0
11/1/2024 13:25	54001	SDLE_T1	17	18	1	1.04	1.07	0.03	0	0	0	0	0	0	0	0
11/1/2024 13:26	54001	SDLE_T1	17	18	1	1.04	1.07	0.03	0	0	0	0	0	0	0	0
11/1/2024 13:26	11205	ELHE_T1	1	1	0	8.1	8	-0.1	0	0	0	0	0	0	0	0
11/1/2024 13:26	11203	ELHE_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
11/1/2024 13:29	29401	BELT_T1	0	1	1	0	0.4	0.4	0	0	1	1	0	900	900	0
11/1/2024 13:29	46004	BERW_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/1/2024 13:29	29402	BELT_T1	1	1	0	7.5	7.9	0.4	0	0	0	0	0	0	0	0
11/1/2024 13:29	46002	BERW_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/1/2024 13:34	16101	BING_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/1/2024 13:34	16103	BING_T2	0	1	1	0	0.2	0.2	-1.39	-1.42	1	1	0	900	900	0
11/1/2024 13:34	16102	BING_T2	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
11/1/2024 13:39	64801	MONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/1/2024 13:39	64802	MONE_T2	5	7	2	0.78	0.49	-0.29	0.2	0.21	0	0	0	0	0	0
11/1/2024 13:40	55105	WERT_T1	0	0	0	0	0	0	-0.5	-0.52	1	1	0	900	900	0
11/1/2024 13:42	10702	CATA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/1/2024 13:42	10707	CATA_T2	1	1	0	0.4	1.2	0.8	0	0	0	0	0	0	0	0
11/1/2024 13:42	10705	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 13:42	10701	CATA_T2	0	0	0	0	0	0	-0.57	-0.61	0	0	0	0	0	0
11/1/2024 13:42	55101	WERT_T1	0	0	0	0	0	0	-1.26	-1.42	2	2	0	1200	1200	0
11/1/2024 13:43	54001	SDLE_T1	18	17	-1	1.04	1.1	0.06	0	0	0	0	0	0	0	0
11/1/2024 13:44	54001	SDLE_T1	18	17	-1	1.04	1.1	0.06	0	0	0	0	0	0	0	0
11/1/2024 13:47	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/1/2024 13:47	54504	ENOL_T2	0	0	0	0	0	0	-1.05	-1.06	1	1	0	600	600	0
11/1/2024 13:47	54505	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/1/2024 13:48	23201	HIRU_T2	2	34	32	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
11/1/2024 13:48	23203	HIRU_T2	0	3	3	0	0.17	0.17	0.16	0.16	0	0	0	0	0	0
11/1/2024 13:48	23202	HIRU_T2	1	5	4	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
11/1/2024 13:49	23203	HIRU_T2	0	3	3	0	0.17	0.17	0.16	0.16	0	0	0	0	0	0
11/1/2024 13:49	23201	HIRU_T2	2	34	32	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
11/1/2024 13:49	23202	HIRU_T2	1	5	4	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
11/1/2024 13:52	64802	MONE_T2	7	6	-1	0.47	0.58	0.11	0.21	0.23	0	0	0	0	0	0
11/1/2024 14:01	11903	ETEX_T1	0	0	0	0	0	0	0.59	0.62	0	0	0	0	0	0
11/1/2024 14:01	48901	FOSP_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/1/2024 14:01	48902	FOSP_T2	1	2	1	0.4	0.4	0	0.38	0.32	0	0	0	0	0	0
11/1/2024 14:02	48902	FOSP_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
11/1/2024 14:02	40505	CRES_T1	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
11/1/2024 14:02	48901	FOSP_T2	1	1	0	0.3	0.5	0.2	-0.1	-0.15	1	1	0	600	600	0
11/1/2024 14:04	48901	FOSP_T2	1	1	0	0.3	0.5	0.2	-0.1	-0.15	1	1	0	600	600	0
11/1/2024 14:04	48902	FOSP_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
11/1/2024 14:07	63601	LETO_T1	2	0	-2	0.25	0	-0.25	0.51	0.56	2	2	0	2100	2100	0
11/1/2024 14:08	63305	GREE_T1	8	8	0	0.35	0.26	-0.09	0	0	0	0	0	0	0	0
11/1/2024 14:08	63303	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/1/2024 14:08	63306	GREE_T1	2	2	0	0.35	0.35	0	-1.88	-1.83	1	1	0	900	900	0
11/1/2024 14:08	63304	GREE_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/1/2024 14:12	43302	WATS_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
11/1/2024 14:12	43301	WATS_T2	2	3	1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
11/1/2024 14:12	43304	WATS_T2	0	0	0	0	0	0	-0.21	-0.28	0	0	0	0	0	0
11/1/2024 14:13	43301	WATS_T2	2	3	1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
11/1/2024 14:13	43302	WATS_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
11/1/2024 14:13	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 14:16	48902	FOSP_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
11/1/2024 14:16	48901	FOSP_T2	1	1	0	0.5	0.2	-0.3	-0.15	0.35	1	0	-1	600	0	-600
11/1/2024 14:18	52404	GRPA_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
11/1/2024 14:18	52401	GRPA_T2	2	3	1	0.85	0.73	-0.12	0	0	0	0	0	0	0	0
11/1/2024 14:18	52402	GRPA_T2	173	165	-8	0.37	0.46	0.09	0	0	0	0	0	0	0	0
11/1/2024 14:18	52403	GRPA_T2	129	260	131	0.41	0.44	0.03	0.1	0.09	0	0	0	0	0	0
11/1/2024 14:21	48901	FOSP_T2	1	1	0	0.5	0.2	-0.3	-0.15	0.35	1	0	-1	600	0	-600
11/1/2024 14:21	48902	FOSP_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
11/1/2024 14:22	66901	SHIL_T2	4	4	0	0.2	0.23	0.03	-1.55	-1.48	1	1	0	1200	1200	0
11/1/2024 14:22	66903	SHIL_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
11/1/2024 14:27	67402	WAKE_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
11/1/2024 14:27	67401	WAKE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/1/2024 14:29	45501	DERR_T2	1	1	0	0.2	0.1	-0.1	0.41	0.41	2	2	0	1800	1800	0
11/1/2024 14:31	45501	DERR_T2	0	1	1	0	0.3	0.3	0.41	0.41	2	2	0	1800	1800	0
11/1/2024 14:35	59301	MCAL_T1	65	78	13	0.39	0.58	0.19	-0.88	-0.91	0	0	0	0	0	0
11/1/2024 14:35	59302	MCAL_T1	2	4	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/1/2024 14:36	52401	GRPA_T2	2	16	14	0.8	0.23	-0.57	0	0	0	0	0	0	0	0
11/1/2024 14:36	52404	GRPA_T2	1	2	1	1.2	0.95	-0.25	0	0	0	0	0	0	0	0
11/1/2024 14:36	52402	GRPA_T2	156	189	33	0.42	0.46	0.04	-0.79	-0.78	0	0	0	0	0	0
11/1/2024 14:36	65502	MOJO_T2	0	3	3	0	0.1	0.1	-0.98	-0.72	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/1/2024 14:36	52403	GRPA_T2	237	271	34	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/1/2024 14:38	59302	MCAL_T1	2	4	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/1/2024 14:38	59301	MCAL_T1	65	78	13	0.39	0.58	0.19	0	0	0	0	0	0	0	0
11/1/2024 14:39	11203	ELHE_T1	0	0	0	0	0	0	0.04	-0.26	0	0	0	0	0	0
11/1/2024 14:40	65502	MOJO_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 14:48	21901	HUMB_T1	1	0	-1	0.1	0	-0.1	-0.93	-0.97	0	0	0	0	0	0
11/1/2024 14:52	65502	MOJO_T2	0	3	3	0	0.1	0.1	-0.72	-1.05	1	1	0	900	900	0
11/1/2024 14:52	54701	NEBL_T1	8	7	-1	0.73	1.11	0.38	0	0	0	0	0	0	0	0
11/1/2024 14:52	64101	REFR_T1	0	1	1	0	0.8	0.8	-0.06	-0.03	0	0	0	0	0	0
11/1/2024 14:53	65502	MOJO_T2	0	3	3	0	0.1	0.1	-0.72	-1.05	1	1	0	900	900	0
11/1/2024 14:53	65503	MOJO_T2	0	0	0	0	0	0	-0.74	0.18	1	0	-1	900	0	-900
11/1/2024 14:56	64101	REFR_T1	0	1	1	0	0.8	0.8	-0.12	-0.06	0	0	0	0	0	0
11/1/2024 14:57	43202	MVIL_T2	1	7	6	0.8	0.26	-0.54	-0.69	-0.72	0	0	0	0	0	0
11/1/2024 14:57	43201	MVIL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/1/2024 14:58	59101	WALK_T2	13	21	8	0.24	0.22	-0.02	-0.34	-0.45	0	0	0	0	0	0
11/1/2024 14:58	59102	WALK_T2	75	88	13	0.26	0.37	0.11	0	0	0	0	0	0	0	0
11/1/2024 14:59	43201	MVIL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/1/2024 14:59	43202	MVIL_T2	1	7	6	0.8	0.26	-0.54	-0.69	-0.72	0	0	0	0	0	0
11/1/2024 14:59	59102	WALK_T2	75	88	13	0.26	0.37	0.11	1.1	1.13	0	0	0	0	0	0
11/1/2024 14:59	59101	WALK_T2	13	21	8	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
11/1/2024 15:01	16101	BING_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
11/1/2024 15:01	16102	BING_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
11/1/2024 15:02	16101	BING_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
11/1/2024 15:02	16102	BING_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
11/1/2024 15:02	61001	DONV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/1/2024 15:04	59301	MCAL_T1	78	69	-9	0.56	0.52	-0.04	-0.89	-0.94	0	0	0	0	0	0
11/1/2024 15:04	59302	MCAL_T1	4	2	-2	0.4	0.7	0.3	0	0	0	0	0	0	0	0
11/1/2024 15:08	59302	MCAL_T1	4	2	-2	0.4	0.7	0.3	0	0	0	0	0	0	0	0
11/1/2024 15:08	59301	MCAL_T1	78	69	-9	0.56	0.52	-0.04	-0.94	-0.94	0	0	0	0	0	0
11/1/2024 15:09	63501	HEID_TBK1-2	5	5	0	0.66	0.76	0.1	-0.06	-0.04	1	1	0	900	900	0
11/1/2024 15:11	65207	PRIN_T4	1	1	0	0.4	0.4	0	0	0	2	2	0	1800	1800	0
11/1/2024 15:11	65206	PRIN_T4	2	0	-2	4.25	0	-4.25	0	0	0	0	0	0	0	0
11/1/2024 15:12	15601	NSTR_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
11/1/2024 15:12	15603	NSTR_T2	0	0	0	0	0	0	-0.63	-0.65	0	0	0	0	0	0
11/1/2024 15:24	54001	SDLE_T1	30	72	42	0.68	0.37	-0.31	0	0	0	0	0	0	0	0
11/1/2024 15:26	54001	SDLE_T1	30	72	42	0.68	0.37	-0.31	0	0	0	0	0	0	0	0
11/1/2024 15:27	54001	SDLE_T1	30	72	42	0.68	0.37	-0.31	0	0	0	0	0	0	0	0
11/1/2024 15:29	54001	SDLE_T1	30	72	42	0.68	0.37	-0.31	0	0	0	0	0	0	0	0
11/1/2024 15:32	63804	HEMP_T1	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
11/1/2024 15:32	63801	HEMP_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
11/1/2024 15:35	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/1/2024 15:35	54501	ENOL_T2	0	0	0	0	0	0	-0.45	-0.52	1	1	0	600	600	0
11/1/2024 15:35	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/1/2024 15:37	64101	REFR_T1	1	1	0	0.7	0.7	0	-0.03	-0.03	0	0	0	0	0	0
11/1/2024 15:39	44703	MUNC_T2	2	2	0	1.1	1.15	0.05	0	0	0	0	0	0	0	0
11/1/2024 15:39	44701	MUNC_T2	3	4	1	0.13	0.18	0.05	0	0	0	0	0	0	0	0
11/1/2024 15:39	54601	SUMM_T2	9	10	1	0.3	0.44	0.14	-3.89	-3.92	2	2	0	2100	2100	0
11/1/2024 15:39	44702	MUNC_T2	80	95	15	0.19	0.27	0.08	0	0	0	0	0	0	0	0
11/1/2024 15:39	54602	SUMM_T2	0	5	5	0	0.22	0.22	0	0	0	0	0	0	0	0
11/1/2024 15:40	54602	SUMM_T2	0	5	5	0	0.22	0.22	0	0	0	0	0	0	0	0
11/1/2024 15:40	54601	SUMM_T2	9	10	1	0.3	0.44	0.14	-11.66	-11.76	6	6	0	6300	6300	0
11/1/2024 15:41	54601	SUMM_T2	9	10	1	0.3	0.44	0.14	-3.89	-3.92	2	2	0	2100	2100	0
11/1/2024 15:41	54602	SUMM_T2	0	5	5	0	0.22	0.22	0	0	0	0	0	0	0	0
11/1/2024 15:49	64201	KINZ_T1	0	0	0	0	0	0	-0.36	-0.41	3	3	0	1500	1500	0
11/1/2024 15:49	64204	KINZ_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
11/1/2024 15:50	20802	LOPO_T1	1	1	0	0.1	0.1	0	-0.6	-0.59	1	1	0	600	600	0
11/1/2024 15:50	63305	GREE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/1/2024 15:50	63304	GREE_T1	0	0	0	0	0	0	-1.34	-1.27	0	0	0	0	0	0
11/1/2024 15:50	63303	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 15:53	64101	REFR_T1	1	1	0	0.7	0.2	-0.5	-0.03	-0.07	0	0	0	0	0	0
11/1/2024 15:54	63304	GREE_T1	0	0	0	0	0	0	-1.27	-1.44	0	0	0	0	0	0
11/1/2024 15:54	63305	GREE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/1/2024 15:54	63303	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 16:02	64201	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/1/2024 16:02	64203	KINZ_T1	0	0	0	0	0	0	-0.42	0.18	2	1	-1	1800	600	-1200
11/1/2024 16:02	64204	KINZ_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
11/1/2024 16:13	52004	LING_T2	3	3	0	4.2	4.27	0.07	0.09	0.01	0	0	0	0	0	0
11/1/2024 16:13	52006	LING_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/1/2024 16:13	52002	LING_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/1/2024 16:14	52006	LING_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/1/2024 16:14	52004	LING_T2	3	3	0	4.2	4.27	0.07	0.17	0.02	0	0	0	0	0	0
11/1/2024 16:14	52002	LING_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/1/2024 16:15	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 16:21	52403	GRPA_T2	16	19	3	0.78	0.57	-0.21	0.09	0.05	0	0	0	0	0	0
11/1/2024 16:21	52402	GRPA_T2	106	121	15	0.38	0.39	0.01	0	0	0	0	0	0	0	0
11/1/2024 16:21	52404	GRPA_T2	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
11/1/2024 16:22	59402	RFLD_T2	0	0	0	0	0	0	-0.84	-0.82	1	1	0	450	450	0
11/1/2024 16:25	59402	RFLD_T2	0	0	0	0	0	0	-0.84	-0.82	1	1	0	450	450	0
11/1/2024 16:27	45303	WBER_T2	5	7	2	0.2	0.23	0.03	-0.23	-0.25	0	0	0	0	0	0
11/1/2024 16:28	45303	WBER_T2	5	7	2	0.2	0.23	0.03	-0.23	-0.25	0	0	0	0	0	0
11/1/2024 16:34	40802	EXCH_T2	0	0	0	0	0	0	-0.83	-1	0	0	0	0	0	0
11/1/2024 16:35	44505	HAMI_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
11/1/2024 16:35	44502	HAMI_T2	1	1	0	3.1	3.3	0.2	0	0	0	0	0	0	0	0
11/1/2024 16:38	46101	MACI_T2	0	0	0	0	0	0	0.83	0.72	0	0	0	0	0	0
11/1/2024 16:42	17802	GILB_T1	168	159	-9	0.31	0.31	0	0	0	0	0	0	0	0	0
11/1/2024 16:42	43202	MVIL_T2	19	56	37	0.21	0.31	0.1	-0.73	-0.75	0	0	0	0	0	0
11/1/2024 16:44	43202	MVIL_T2	19	56	37	0.21	0.31	0.1	-0.73	-0.75	0	0	0	0	0	0
11/1/2024 16:45	24204	PROV_T3	1	4	3	5.7	1.45	-4.25	0	0	0	0	0	0	0	0
11/1/2024 16:45	43202	MVIL_T2	56	23	-33	0.31	0.19	-0.12	-1.46	-1.5	0	0	0	0	0	0
11/1/2024 16:45	24201	PROV_T3	25	74	49	0.39	0.26	-0.13	0	0	1	1	0	1200	1200	0
11/1/2024 16:49	46101	MACI_T2	0	0	0	0	0	0	0.83	0.72	0	0	0	0	0	0
11/1/2024 16:50	50502	MECH_T1	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
11/1/2024 16:50	17901	BART_T1	0	0	0	0	0	0	0.58	0.51	1	1	0	1200	1200	0
11/1/2024 16:50	50501	MECH_T1	4	4	0	1.05	1.23	0.18	-0.83	-0.8	0	0	0	0	0	0
11/1/2024 16:51	17901	BART_T1	0	0	0	0	0	0	0.58	0.51	1	1	0	1200	1200	0
11/1/2024 16:55	64704	LITI_T1	0	0	0	0	0	0	0.1	0.02	1	1	0	600	600	0
11/1/2024 16:56	12006	HATF_T1	0	0	0	0	0	0	-0.03	-0.22	1	1	0	1200	1200	0
11/1/2024 16:57	42601	TUSC_T1	1	2	1	0	0.4	0.4	-0.27	-0.27	2	2	0	1800	1800	0
11/1/2024 17:01	24104	EHAZ_T1	0	0	0	0	0	0	-0.85	-0.86	1	1	0	1200	1200	0
11/1/2024 17:01	24105	EHAZ_T1	4	4	0	6.18	6.13	-0.05	0	0	0	0	0	0	0	0
11/1/2024 17:01	24103	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 17:04	46101	MACI_T2	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
11/1/2024 17:07	41205	KENM_T2	0	0	0	0	0	0	-0.71	-0.73	1	1	0	600	600	0
11/1/2024 17:07	41202	KENM_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
11/1/2024 17:13	50625	CCTY_T2	5	6	1	2.78	2.37	-0.41	0	0	0	0	0	0	0	0
11/1/2024 17:13	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 17:13	50624	CCTY_T2	2	2	0	6.1	5.75	-0.35	0	0	0	0	0	0	0	0
11/1/2024 17:13	50623	CCTY_T2	5	5	0	5.52	5.68	0.16	0	0	0	0	0	0	0	0
11/1/2024 17:17	45303	WBER_T2	8	9	1	1.38	1.58	0.2	0	0	0	0	0	0	0	0
11/1/2024 17:17	45302	WBER_T2	0	0	0	0	0	0	0.7	0.64	0	0	0	0	0	0
11/1/2024 17:20	44505	HAMI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/1/2024 17:20	43402	BENT_T1	0	0	0	0	0	0	-0.83	-0.83	1	1	0	900	900	0
11/1/2024 17:20	44502	HAMI_T2	1	1	0	3.4	3.7	0.3	0	0	0	0	0	0	0	0
11/1/2024 17:20	44503	HAMI_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
11/1/2024 17:24	43402	BENT_T1	0	0	0	0	0	0	-0.83	-0.86	1	1	0	900	900	0
11/1/2024 17:27	15203	SFAR_T2	0	0	0	0	0	0	-1.18	-1.16	0	0	0	0	0	0
11/1/2024 17:31	54502	ENOL_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
11/1/2024 17:31	54501	ENOL_T2	3	4	1	0.13	0.38	0.25	0	0	0	0	0	0	0	0
11/1/2024 17:31	54505	ENOL_T2	1	1	0	1	1.2	0.2	-1.33	-1.32	1	1	0	600	600	0
11/1/2024 17:34	66303	MCGO_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/1/2024 17:34	66302	MCGO_T2	0	0	0	0	0	0	-1.52	-1.62	1	1	0	600	600	0
11/1/2024 17:38	66303	MCGO_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/1/2024 17:38	66302	MCGO_T2	0	0	0	0	0	0	-1.62	-0.87	1	0	-1	600	0	-600
11/1/2024 17:39	13704	SOHN_T2	6	6	0	0.28	0.2	-0.08	-0.41	-0.44	0	0	0	0	0	0
11/1/2024 17:41	15204	SFAR_T2	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
11/1/2024 17:48	24702	FLND_T2	0	0	0	0	0	0	0.03	0.26	1	1	0	1200	1200	0
11/1/2024 17:48	54501	ENOL_T2	4	4	0	0.28	0.4	0.12	0	0	0	0	0	0	0	0
11/1/2024 17:48	54504	ENOL_T2	0	0	0	0	0	0	-1.08	-1.12	1	1	0	600	600	0
11/1/2024 17:48	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
11/1/2024 17:48	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
11/1/2024 17:55	66502	SMAN_T2	0	0	0	0	0	0	0.11	0.07	0	0	0	0	0	0
11/1/2024 17:55	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 19:55	17002	RIRO_T2	32	44	12	0.15	0.14	-0.01	0.31	0.33	0	0	0	0	0	0
11/1/2024 19:55	24801	VALM_T1	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
11/1/2024 19:56	22405	MORG_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
11/1/2024 19:56	17805	GILB_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
11/1/2024 19:56	17804	GILB_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
11/1/2024 19:56	22401	MORG_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 19:57	66902	SHIL_T2	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
11/1/2024 19:57	66901	SHIL_T2	142	0	-142	0.16	0	-0.16	0	0	0	0	0	0	0	0
11/1/2024 19:58	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 19:58	23202	HIRU_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
11/1/2024 19:59	15704	TANN_T1	0	0	0	0	0	0	-0.16	-0.32	0	0	0	0	0	0
11/1/2024 19:59	17804	GILB_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
11/1/2024 19:59	15203	SFAR_T2	77	45	-32	0.16	0.14	-0.02	-1.3	-1.31	0	0	0	0	0	0
11/1/2024 19:59	15701	TANN_T1	1	1	0	4.7	4.8	0.1	0	0	0	0	0	0	0	0
11/1/2024 19:59	17805	GILB_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
11/1/2024 20:00	17804	GILB_T2	2	11	9	0.1	0.11	0.01	0	0	0	0	0	0	0	0
11/1/2024 20:00	20601	GRWO_T2	84	100	16	0.21	0.25	0.04	0	0	0	0	0	0	0	0
11/1/2024 20:00	10206	ALLE_T2	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
11/1/2024 20:00	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.92	1	1	0	900	900	0
11/1/2024 20:00	20603	GRWO_T2	59	61	2	0.29	0.32	0.03	0.31	0.3	0	0	0	0	0	0
11/1/2024 20:00	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:00	10102	ALLE_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
11/1/2024 20:00	17805	GILB_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
11/1/2024 20:01	40301	TAMA_T3	1	1	0	0	0	0	1.4	1.38	1	1	0	1200	1200	0
11/1/2024 20:01	40302	TAMA_T3	3	4	1	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
11/1/2024 20:01	16101	BING_T2	0	0	0	0	0	0	0.67	0.64	0	0	0	0	0	0
11/1/2024 20:01	66903	SHIL_T2	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
11/1/2024 20:01	25402	LAHA_T2	1	0	-1	0.2	0	-0.2	-0.87	-0.91	0	0	0	0	0	0
11/1/2024 20:01	40303	TAMA_T3	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/1/2024 20:01	16102	BING_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:01	25404	LAHA_T2	162	0	-162	0.13	0	-0.13	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/1/2024 20:02	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:02	15703	TANN_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
11/1/2024 20:02	10101	ALLE_T3	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:02	20802	LOPO_T1	1	0	-1	0.1	0	-0.1	-0.6	-0.59	1	1	0	600	600	0
11/1/2024 20:02	64904	MILL_T1	135	122	-13	0.15	0.15	0	-0.54	-0.54	0	0	0	0	0	0
11/1/2024 20:02	15603	NSTR_T2	8	8	0	0.15	0.15	0	-0.65	-0.65	0	0	0	0	0	0
11/1/2024 20:02	15702	TANN_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
11/1/2024 20:02	15601	NSTR_T2	3	3	0	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
11/1/2024 20:02	64901	MILL_T1	40	34	-6	0.22	0.22	0	0	0	0	0	0	0	0	0
11/1/2024 20:02	17802	GILB_T1	230	207	-23	0.5	0.63	0.13	-0.05	-0.05	0	0	0	0	0	0
11/1/2024 20:02	14204	EALL_T2	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
11/1/2024 20:03	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:03	44503	HAMI_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
11/1/2024 20:03	63501	HEID_TBK1-2	11	32	21	0.32	0.28	-0.04	0.42	0.42	0	0	0	0	0	0
11/1/2024 20:03	14201	EALL_T1	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
11/1/2024 20:03	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:03	23902	EFMO_T2	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
11/1/2024 20:03	24202	PROV_T4	1	1	0	1.5	0	-1.5	0	0	1	1	0	1200	1200	0
11/1/2024 20:03	10101	ALLE_T3	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:03	40303	TAMA_T3	2	1	-1	0.15	0.1	-0.05	2.37	2.31	0	0	0	0	0	0
11/1/2024 20:03	65502	MOJO_T2	162	100	-62	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
11/1/2024 20:03	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:03	40302	TAMA_T3	3	4	1	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
11/1/2024 20:03	65503	MOJO_T2	6	3	-3	0.1	0.1	0	-0.4	-0.4	0	0	0	0	0	0
11/1/2024 20:04	23201	HIRU_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:04	43301	WATS_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
11/1/2024 20:04	66505	SMAN_T2	3	3	0	0.33	0.93	0.6	0	0	0	0	0	0	0	0
11/1/2024 20:04	67502	WEWI_T2	15	40	25	0.11	0.15	0.04	0	0	0	0	0	0	0	0
11/1/2024 20:04	46004	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:04	63501	HEID_TBK1-2	11	32	21	0.32	0.28	-0.04	0.85	0.84	0	0	0	0	0	0
11/1/2024 20:04	67001	STHI_T2	747	884	137	0.26	0.32	0.06	0	0	0	0	0	0	0	0
11/1/2024 20:04	42701	AUGU_T1	1	1	0	1	1.1	0.1	0	0	2	2	0	1800	1800	0
11/1/2024 20:04	23203	HIRU_T2	0	0	0	0	0	0	-0.03	0.09	0	0	0	0	0	0
11/1/2024 20:04	29401	BELT_T1	2	47	45	0.1	0.19	0.09	0	0	1	1	0	900	900	0
11/1/2024 20:04	67503	WEWI_T2	1	1	0	8.1	8.4	0.3	-0.27	-0.29	0	0	0	0	0	0
11/1/2024 20:04	29402	BELT_T1	1	1	0	7.7	8	0.3	0	0	0	0	0	0	0	0
11/1/2024 20:04	44802	EDAN_T2	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
11/1/2024 20:04	67002	STHI_T2	142	394	252	0.14	0.16	0.02	1.23	1.24	0	0	0	0	0	0
11/1/2024 20:04	46002	BERW_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
11/1/2024 20:04	40802	EKH_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
11/1/2024 20:04	11903	ETEX_T1	0	0	0	0	0	0	0.39	0.45	0	0	0	0	0	0
11/1/2024 20:04	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:04	17802	GILB_T1	230	207	-23	0.5	0.63	0.13	-0.05	-0.05	0	0	0	0	0	0
11/1/2024 20:04	43302	WATS_T2	4	4	0	0.83	0.8	-0.03	0	0	0	0	0	0	0	0
11/1/2024 20:05	66901	SHIL_T2	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
11/1/2024 20:05	54201	PENN_T1	6	11	5	0.77	0.68	-0.09	0	0	0	0	0	0	0	0
11/1/2024 20:05	14403	SSLA_T1	10	0	-10	0.17	0	-0.17	0	0	0	0	0	0	0	0
11/1/2024 20:05	67502	WEWI_T2	15	40	25	0.11	0.15	0.04	-0.39	-0.37	0	0	0	0	0	0
11/1/2024 20:05	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:05	67002	STHI_T2	142	394	252	0.14	0.16	0.02	0.62	0.62	0	0	0	0	0	0
11/1/2024 20:05	14402	SSLA_T1	245	0	-245	0.22	0	-0.22	0	0	0	0	0	0	0	0
11/1/2024 20:05	67001	STHI_T2	747	884	137	0.26	0.32	0.06	0	0	0	0	0	0	0	0
11/1/2024 20:05	16103	BING_T2	0	0	0	0	0	0	-1.59	-1.57	1	1	0	900	900	0
11/1/2024 20:05	44802	EDAN_T2	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
11/1/2024 20:05	17901	BART_T1	0	0	0	0	0	0	2.51	2.44	2	2	0	2400	2400	0
11/1/2024 20:05	16102	BING_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:05	54203	PENN_T1	18	18	0	1.06	1.16	0.1	0.98	0.89	0	0	0	0	0	0
11/1/2024 20:05	46101	MACI_T2	0	0	0	0	0	0	0.7	0.71	0	0	0	0	0	0
11/1/2024 20:05	10702	CATA_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/1/2024 20:05	14404	SSLA_T1	112	0	-112	0.16	0	-0.16	0	0	0	0	0	0	0	0
11/1/2024 20:05	67503	WEWI_T2	1	1	0	8.1	8.4	0.3	0	0	0	0	0	0	0	0
11/1/2024 20:05	63303	GREE_T1	1	3	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/1/2024 20:05	66903	SHIL_T2	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
11/1/2024 20:05	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:05	14401	SSLA_T1	20	2	-18	0.23	0.1	-0.13	-0.55	-0.63	0	0	0	0	0	0
11/1/2024 20:05	63306	GREE_T1	6	19	13	0.12	0.14	0.02	-4.15	-4.31	2	2	0	1800	1800	0
11/1/2024 20:05	66902	SHIL_T2	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
11/1/2024 20:05	63305	GREE_T1	3	3	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
11/1/2024 20:06	10101	ALLE_T3	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:06	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:06	66505	SMAN_T2	3	3	0	0.33	0.93	0.6	0	0	0	0	0	0	0	0
11/1/2024 20:06	43801	SWIL_T1	13	17	4	0.69	0.59	-0.1	0	0	0	0	0	0	0	0
11/1/2024 20:06	40201	BEGA_T2	6	14	8	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
11/1/2024 20:06	66504	SMAN_T2	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
11/1/2024 20:06	23201	HIRU_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:06	67001	STHI_T2	747	884	137	0.26	0.32	0.06	0	0	0	0	0	0	0	0
11/1/2024 20:06	41205	KENM_T2	0	0	0	0	0	0	-0.77	-0.77	1	1	0	600	600	0
11/1/2024 20:06	14404	SSLA_T1	112	0	-112	0.16	0	-0.16	-0.13	-0.11	0	0	0	0	0	0
11/1/2024 20:06	54502	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:06	17804	GILB_T2	2	11	9	0.1	0.11	0.01	0	0	0	0	0	0	0	0
11/1/2024 20:06	44802	EDAN_T2	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
11/1/2024 20:06	59302	MCAL_T1	2	2	0	1.35	1.5	0.15	0	0	0	0	0	0	0	0
11/1/2024 20:06	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:06	67002	STHI_T2	142	394	252	0.14	0.16	0.02	1.24	1.19	0	0	0	0	0	0
11/1/2024 20:06	54506	ENOL_T2	0	0	0	0	0	0	0.5	0.59	1	1	0	600	600	0
11/1/2024 20:06	54501	ENOL_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
11/1/2024 20:06	63501	HEID_TBK1-2	11	32	21	0.32	0.28	-0.04	0.42	0.39	0	0	0	0	0	0
11/1/2024 20:06	54701	NEBL_T1	8	7	-1	1.16	0.94	-0.22	0	0	0	0	0	0	0	0
11/1/2024 20:06	64201	KINZ_T1	5	5	0	0.2	0.22	0.02	0.46	0.44	1	1	0	300	300	0
11/1/2024 20:06	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:06	59301	MCAL_T1	82	89	7	0.56	0.79	0.23	-1.29	-1.31	0	0	0	0	0	0
11/1/2024 20:06	41201	KENM_T2	1	10	9	0.1	0.12	0.02	0	0	0	0	0	0	0	0
11/1/2024 20:06	51107	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:06	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:06	17805	GILB_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
11/1/2024 20:06	14402	SSLA_T1	245	0	-245	0.22	0	-0.22	0	0	0	0	0	0	0	0
11/1/2024 20:06	51101	CARL_T1	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
11/1/2024 20:06	14401	SSLA_T1	20	2	-18	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
11/1/2024 20:06	46802	HEPB_T1	1	1	0	0.8	1.4	0.6	-0.32	-0.37	0	0	0	0	0	0
11/1/2024 20:06	14403	SSLA_T1	10	0	-10	0.17	0	-0.17	0	0	0	0	0	0	0	0
11/1/2024 20:06	64202	KINZ_T1	3	3	0	0.37	0.4	0.03	0	0	0	0	0	0	0	0
11/1/2024 20:06	51102	CARL_T1	31	111	80	0.14	0.28	0.14	0	0	0	0	0	0	0	0
11/1/2024 20:06	41202	KENM_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
11/1/2024 20:06	64204	KINZ_T1	5	4	-1	0.24	0.33	0.09	0	0	0	0	0	0	0	0
11/1/2024 20:06	23203	HIRU_T2	0	0	0	0	0	0	-0.03	0.09	0	0	0	0	0	0
11/1/2024 20:07	67002	STHI_T2	142	394	252	0.14	0.16	0.02	0.62	0.59	0	0	0	0	0	0
11/1/2024 20:07	14802	TREI_T2	13	2	-11	0.27	0.1	-0.17	0.29	0.31	0	0	0	0	0	0
11/1/2024 20:07	67001	STHI_T2	747	884	137	0.26	0.32	0.06	0	0	0	0	0	0	0	0
11/1/2024 20:07	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:07	52403	GRPA_T2	37	392	355	0.53	0.34	-0.19	-0.11	-0.13	0	0	0	0	0	0
11/1/2024 20:07	15703	TANN_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
11/1/2024 20:07	40502	CRES_T2	81	128	47	0.6	0.61	0.01	-0.47	-0.48	0	0	0	0	0	0
11/1/2024 20:07	67501	WEWI_T1	0	0	0	0	0	0	-0.58	-0.64	0	0	0	0	0	0
11/1/2024 20:07	40501	CRES_T2	12	18	6	0.29	0.32	0.03	0	0	0	0	0	0	0	0
11/1/2024 20:07	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:07	52402	GRPA_T2	183	226	43	0.5	0.83	0.33	0	0	0	0	0	0	0	0
11/1/2024 20:07	65502	MOJO_T2	162	100	-62	0.12	0.11	-0.01	-1.06	-0.99	0	0	0	0	0	0
11/1/2024 20:07	14801	TREI_T2	87	1	-86	0.18	0.2	0.02	0	0	0	0	0	0	0	0
11/1/2024 20:07	20403	ASHF_T2	5	0	-5	0.12	0	-0.12	0.15	0.15	0	0	0	0	0	0
11/1/2024 20:07	54001	SDLE_T1	239	288	49	0.39	0.4	0.01	0	0	0	0	0	0	0	0
11/1/2024 20:07	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:07	43202	MVIL_T2	0	10	10	0	0.19	0.19	-1.6	-1.56	0	0	0	0	0	0
11/1/2024 20:07	54201	PENN_T1	6	11	5	0.77	0.68	-0.09	0	0	0	0	0	0	0	0
11/1/2024 20:07	65503	MOJO_T2	6	3	-3	0.1	0.1	0	0	0	0	0	0	0	0	0
11/1/2024 20:07	20401	ASHF_T2	97	3	-94	0.3	0.47	0.17	0	0	0	0	0	0	0	0
11/1/2024 20:07	20402	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/1/2024 20:07	54203	PENN_T1	18	18	0	1.06	1.16	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:07	52401	GRPA_T2	43	194	151	0.16	0.41	0.25	0	0	0	0	0	0	0	0
11/1/2024 20:07	52404	GRPA_T2	10	29	19	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
11/1/2024 20:07	44505	HAMI_T2	0	0	0	0	0	0	0.39	0.44	0	0	0	0	0	0
11/1/2024 20:07	15702	TANN_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
11/1/2024 20:08	14801	TREI_T2	87	1	-86	0.18	0.2	0.02	0	0	0	0	0	0	0	0
11/1/2024 20:08	54601	SUMM_T2	12	13	1	0.43	0.57	0.14	-2.98	-3.04	2	2	0	2100	2100	0
11/1/2024 20:08	50501	MECH_T1	4	4	0	1.05	1.05	0	0.36	0.29	0	0	0	0	0	0
11/1/2024 20:08	63305	GREE_T1	3	3	0	0.2	0.17	-0.03	-1.29	-1.3	0	0	0	0	0	0
11/1/2024 20:08	43302	WATS_T2	4	4	0	0.83	0.8	-0.03	0	-0.03	0	0	0	0	0	0
11/1/2024 20:08	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	-1.37	-1.38	1	1	0	600	600	0
11/1/2024 20:08	58001	WCAR_T1	4	4	0	1	1.3	0.3	0	0	0	0	0	0	0	0
11/1/2024 20:08	54201	PENN_T1	6	11	5	0.77	0.68	-0.09	0	0	0	0	0	0	0	0
11/1/2024 20:08	15703	TANN_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
11/1/2024 20:08	58003	WCAR_T1	1	1	0	0.8	0.9	0.1	0.7	0.68	0	0	0	0	0	0
11/1/2024 20:08	64904	MILL_T1	135	122	-13	0.15	0.15	0	-0.54	-0.56	0	0	0	0	0	0
11/1/2024 20:08	14802	TREI_T2	13	2	-11	0.27	0.1	-0.17	0.58	0.61	0	0	0	0	0	0
11/1/2024 20:08	45303	WBER_T2	11	13	2	1.56	1.39	-0.17	0	0	0	0	0	0	0	0
11/1/2024 20:08	10702	CATA_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/1/2024 20:08	20802	LOPO_T1	1	0	-1	0.1	0	-0.1	-0.59	-0.59	1	1	0	600	600	0
11/1/2024 20:08	15203	SPAR_T2	45	2	-43	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
11/1/2024 20:08	50502	MECH_T1	1	1	0	2.8	3.4	0.6	0	0	0	0	0	0	0	0
11/1/2024 20:08	59202	THOM_T1	770	838	68	1.06	1.22	0.16	0	0	0	0	0	0	0	0
11/1/2024 20:08	67002	STHI_T2	142	394	252	0.14	0.16	0.02	0.62	0.59	0	0	0	0	0	0
11/1/2024 20:08	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:08	63306	GREE_T1	6	19	13	0.12	0.14	0.02	0	0	0	0	0	0	0	0
11/1/2024 20:08	67001	STHI_T2	747	884	137	0.26	0.32	0.06	0.07	0.07	0	0	0	0	0	0
11/1/2024 20:08	46101	MACI_T2	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
11/1/2024 20:08	15702	TANN_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
11/1/2024 20:08	15103	UPHA_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
11/1/2024 20:08	63303	GREE_T1	1	3	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/1/2024 20:08	23201	HIRU_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:08	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:08	45302	WBER_T2	0	0	0	0	0	0	0.47	0.62	0	0	0	0	0	0
11/1/2024 20:08	10705	CATA_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
11/1/2024 20:08	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:08	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/1/2024 20:08	64901	MILL_T1	40	34	-6	0.22	0.22	0	0	0	0	0	0	0	0	0
11/1/2024 20:08	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:08	15204	SFAR_T2	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
11/1/2024 20:08	21206	ECAR_T2	1	1	0	7.7	7.9	0.2	1.19	1.18	0	0	0	0	0	0
11/1/2024 20:08	50504	MECH_T1	0	39	39	0	0.12	0.12	0	0	0	0	0	0	0	0
11/1/2024 20:08	50505	MECH_T1	0	12	12	0	0.13	0.13	0	0	0	0	0	0	0	0
11/1/2024 20:08	54502	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:08	54203	PENN_T1	18	18	0	1.06	1.16	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:08	21901	HUMB_T1	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
11/1/2024 20:08	50506	MECH_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:08	14204	EALL_T2	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
11/1/2024 20:08	66903	SHIL_T2	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
11/1/2024 20:08	23203	HIRU_T2	0	0	0	0	0	0	0.09	0.15	0	0	0	0	0	0
11/1/2024 20:08	59201	THOM_T1	135	171	36	0.86	1	0.14	0	0	0	0	0	0	0	0
11/1/2024 20:09	14801	TREI_T2	87	1	-86	0.18	0.2	0.02	0.33	0.36	0	0	0	0	0	0
11/1/2024 20:09	42903	MIDD_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
11/1/2024 20:09	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.94	1	1	0	900	900	0
11/1/2024 20:09	14802	TREI_T2	13	2	-11	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
11/1/2024 20:09	15001	BLMO_T1	4	4	0	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
11/1/2024 20:09	52004	LING_T2	3	3	0	4.37	4.43	0.06	0.08	0.08	0	0	0	0	0	0
11/1/2024 20:09	55002	NEWP_T1	4	4	0	1.33	1.45	0.12	-0.29	-0.28	0	0	0	0	0	0
11/1/2024 20:09	55001	NEWP_T1	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
11/1/2024 20:09	44501	DERR_T2	0	0	0	0	0	0	-0.5	-0.54	2	2	0	1800	1800	0
11/1/2024 20:09	58003	WCAR_T1	1	1	0	0.8	0.9	0.1	0.7	0.68	0	0	0	0	0	0
11/1/2024 20:09	44801	EDAN_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
11/1/2024 20:09	42902	MIDD_T2	0	0	0	0	0	0	-1.3	-1.26	1	1	0	600	600	0
11/1/2024 20:09	42701	AUGU_T1	1	1	0	1	1.1	0.1	0	0	2	2	0	1800	1800	0
11/1/2024 20:09	59201	THOM_T1	135	171	36	0.86	1	0.14	0	0	0	0	0	0	0	0
11/1/2024 20:09	52006	LING_T2	2	2	0	1.15	1.25	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:09	52002	LING_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
11/1/2024 20:09	47203	FAXO_T2	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/1/2024 20:09	45701	LIND_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
11/1/2024 20:09	45702	LIND_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
11/1/2024 20:09	17804	GILB_T2	2	11	9	0.1	0.11	0.01	-0.63	-0.62	0	0	0	0	0	0
11/1/2024 20:09	63601	LETO_T1	1	0	-1	0.1	0	-0.1	1.21	1.22	1	1	0	900	900	0
11/1/2024 20:09	45303	WBER_T2	11	13	2	1.56	1.39	-0.17	-0.35	-0.35	0	0	0	0	0	0
11/1/2024 20:09	59202	THOM_T1	770	838	68	1.06	1.22	0.16	0	0	0	0	0	0	0	0
11/1/2024 20:09	58001	WCAR_T1	4	4	0	1	1.3	0.3	0	0	0	0	0	0	0	0
11/1/2024 20:10	63306	GREE_T1	6	19	13	0.12	0.14	0.02	0	0	0	0	0	0	0	0
11/1/2024 20:10	54504	ENOL_T2	0	0	0	0	0	0	-1.14	-1.15	1	1	0	600	600	0
11/1/2024 20:10	12004	HATF_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:10	65207	PRIN_T4	45	44	-1	0.15	0.18	0.03	0	0	2	2	0	1800	1800	0
11/1/2024 20:10	12006	HATF_T1	0	0	0	0	0	0	0.79	0.75	0	0	0	0	0	0
11/1/2024 20:10	65206	PRIN_T4	2	4	2	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/1/2024 20:10	12005	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:10	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
11/1/2024 20:10	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:10	24201	PROV_T3	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
11/1/2024 20:10	64901	MILL_T1	40	34	-6	0.22	0.22	0	0	0	0	0	0	0	0	0
11/1/2024 20:10	54502	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:10	64801	MONE_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:10	64802	MONE_T2	12	7	-5	0.11	0.13	0.02	0.09	0.09	0	0	0	0	0	0
11/1/2024 20:10	14801	TREI_T2	87	1	-86	0.18	0.2	0.02	0	0	0	0	0	0	0	0
11/1/2024 20:10	10801	CHHI_T1	0	0	0	0	0	0	-1.49	-1.5	2	2	0	1500	1500	0
11/1/2024 20:10	24105	EHAZ_T1	5	4	-1	5.48	5.9	0.42	0	0	0	0	0	0	0	0
11/1/2024 20:10	63305	GREE_T1	3	3	0	0.2	0.17	-0.03	-1.29	-1.3	0	0	0	0	0	0
11/1/2024 20:10	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.42	0	0	0	0	0	0
11/1/2024 20:10	12002	HATF_T1	1	1	0	3	2.7	-0.3	0	0	0	0	0	0	0	0
11/1/2024 20:10	67002	STHI_T2	142	394	252	0.14	0.16	0.02	0.62	0.59	0	0	0	0	0	0
11/1/2024 20:10	24204	PROV_T3	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
11/1/2024 20:10	12001	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:10	64904	MILL_T1	135	122	-13	0.15	0.15	0	-0.54	-0.56	0	0	0	0	0	0
11/1/2024 20:10	14802	TREI_T2	13	2	-11	0.27	0.1	-0.17	0.29	0.31	0	0	0	0	0	0
11/1/2024 20:10	54601	SUMM_T2	12	13	1	0.43	0.57	0.14	-2.98	-3.04	2	2	0	2100	2100	0
11/1/2024 20:10	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:10	66901	SHIL_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
11/1/2024 20:10	54001	SDLE_T1	239	288	49	0.39	0.4	0.01	0	0	0	0	0	0	0	0
11/1/2024 20:10	48901	FOSP_T2	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/1/2024 20:10	63804	HEMP_T1	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:10	63303	GREE_T1	1	3	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/1/2024 20:10	10705	CATA_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
11/1/2024 20:10	67001	STHI_T2	747	884	137	0.26	0.32	0.06	0.07	0.07	0	0	0	0	0	0
11/1/2024 20:10	59301	MCAL_T1	82	89	7	0.56	0.79	0.23	-1.29	-1.31	0	0	0	0	0	0
11/1/2024 20:10	46004	BERW_T2	0	1	1	0	0.1	0.1	-0.69	-0.75	0	0	0	0	0	0
11/1/2024 20:10	63801	HEMP_T1	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
11/1/2024 20:10	24104	EHAZ_T1	0	0	0	0	0	0	-0.92	-0.93	1	1	0	1200	1200	0
11/1/2024 20:10	66505	SMAN_T2	3	3	0	0.33	0.93	0.6	-0.09	-0.12	1	1	0	900	900	0
11/1/2024 20:10	26002	WDAM_T1	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
11/1/2024 20:10	45501	DERR_T2	0	0	0	0	0	0	-0.5	-0.54	2	2	0	1800	1800	0
11/1/2024 20:10	48902	FOSP_T2	12	15	3	0.21	0.23	0.02	0.05	0.02	0	0	0	0	0	0
11/1/2024 20:10	10702	CATA_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/1/2024 20:10	59302	MCAL_T1	2	2	0	1.35	1.5	0.15	0	0	0	0	0	0	0	0
11/1/2024 20:10	66903	SHIL_T2	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
11/1/2024 20:10	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:11	40901	JESH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/1/2024 20:11	50625	CCTY_T2	5	5	0	2.68	2.58	-0.1	0	0	0	0	0	0	0	0
11/1/2024 20:11	66302	MCGO_T2	0	0	0	0	0	0	-1.03	-1.06	0	0	0	0	0	0
11/1/2024 20:11	67002	STHI_T2	142	394	252	0.14	0.16	0.02	0.62	0.59	0	0	0	0	0	0
11/1/2024 20:11	63306	GREE_T1	6	19	13	0.12	0.14	0.02	-2.15	-2.14	1	1	0	900	900	0
11/1/2024 20:11	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:11	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:11	66303	MCGO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/1/2024 20:11	44301	BEAV_T2	0	0	0	0	0	0	-0.46	-0.54	1	1	0	600	600	0
11/1/2024 20:11	50623	CCTY_T2	5	5	0	5.02	5.48	0.46	0	0	0	0	0	0	0	0
11/1/2024 20:11	59302	MCAL_T1	2	2	0	1.35	1.5	0.15	0	0	0	0	0	0	0	0
11/1/2024 20:11	59202	THOM_T1	770	838	68	1.06	1.22	0.16	0	0	0	0	0	0	0	0
11/1/2024 20:11	44902	SCOT_T2	0	0	0	0	0	0	-0.95	-0.93	0	0	0	0	0	0
11/1/2024 20:11	63304	GREE_T1	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
11/1/2024 20:11	10801	CHHI_T1	0	0	0	0	0	0	-1.49	-1.5	2	2	0	1500	1500	0
11/1/2024 20:11	46004	BERW_T2	0	1	1	0	0.1	0.1	-0.69	-0.75	0	0	0	0	0	0
11/1/2024 20:11	54201	PENN_T1	6	11	5	0.77	0.68	-0.09	0	0	0	0	0	0	0	0
11/1/2024 20:11	63303	GREE_T1	1	3	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/1/2024 20:11	50624	CCTY_T2	2	2	0	5.55	5.75	0.2	0	0	0	0	0	0	0	0
11/1/2024 20:11	42701	AUGU_T1	1	1	0	1	1.1	0.1	0	0	2	2	0	1800	1800	0
11/1/2024 20:11	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
11/1/2024 20:11	54203	PENN_T1	18	18	0	1.06	1.16	0.1	0.89	0.92	0	0	0	0	0	0
11/1/2024 20:11	60803	BUCK_T1	3	2	-1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
11/1/2024 20:11	67001	STHI_T2	747	884	137	0.26	0.32	0.06	0	0	0	0	0	0	0	0
11/1/2024 20:11	40902	JESH_T1	0	0	0	0	0	0	-0.81	-0.8	0	0	0	0	0	0
11/1/2024 20:11	66505	SMAN_T2	3	3	0	0.33	0.93	0.6	0	0	0	0	0	0	0	0
11/1/2024 20:11	60801	BUCK_T1	27	18	-9	0.19	0.17	-0.02	-0.23	-0.23	0	0	0	0	0	0
11/1/2024 20:11	63305	GREE_T1	3	3	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
11/1/2024 20:11	63502	HEID_TBK1-2	11	32	21	0.32	0.28	-0.04	0.42	0.39	0	0	0	0	0	0
11/1/2024 20:11	59301	MCAL_T1	82	89	7	0.56	0.79	0.23	-1.29	-1.31	0	0	0	0	0	0
11/1/2024 20:11	59201	THOM_T1	135	171	36	0.86	1	0.14	0	0	0	0	0	0	0	0
11/1/2024 20:11	57106	SPHI_T2	3	3	0	1.97	2.17	0.2	0	0	0	0	0	0	0	0
11/1/2024 20:11	57101	SPHI_T2	5	5	0	1.26	1.46	0.2	0	0	0	0	0	0	0	0
11/1/2024 20:11	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:11	66901	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:11	57104	SPHI_T2	2	4	2	2.6	3.4	0.8	-0.5	-0.51	0	0	0	0	0	0
11/1/2024 20:11	15203	SFAR_T2	45	2	-43	0.14	0.1	-0.04	-1.31	-1.28	0	0	0	0	0	0
11/1/2024 20:12	52404	GRPA_T2	10	29	19	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
11/1/2024 20:12	54001	SDLE_T1	239	288	49	0.39	0.4	0.01	0	0	0	0	0	0	0	0
11/1/2024 20:12	63501	HEID_TBK1-2	11	32	21	0.32	0.28	-0.04	0.42	0.39	0	0	0	0	0	0
11/1/2024 20:12	40901	JESH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/1/2024 20:12	65503	MOJO_T2	6	3	-3	0.1	0.1	0	-0.4	-0.41	0	0	0	0	0	0
11/1/2024 20:12	52401	GRPA_T2	43	194	151	0.16	0.41	0.25	0	0	0	0	0	0	0	0
11/1/2024 20:12	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
11/1/2024 20:12	20603	GRWO_T2	59	61	2	0.29	0.32	0.03	0.3	0.34	0	0	0	0	0	0
11/1/2024 20:12	52403	GRPA_T2	37	392	355	0.53	0.34	-0.19	0	0	0	0	0	0	0	0
11/1/2024 20:12	59402	RFLD_T2	1	1	0	0.2	0.7	0.5	-0.9	-0.89	1	1	0	450	450	0
11/1/2024 20:12	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:12	64902	MILL_T2	0	0	0	0	0	0	-0.7	-0.72	1	1	0	900	900	0
11/1/2024 20:12	55002	NEWP_T1	4	4	0	1.33	1.45	0.12	-0.29	-0.28	0	0	0	0	0	0
11/1/2024 20:12	43304	WATS_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
11/1/2024 20:12	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.17	0	0	0	0	0	0
11/1/2024 20:12	45802	HEGI_T2	46	46	0	1.23	1.16	-0.07	0.63	0.52	0	0	0	0	0	0
11/1/2024 20:12	20601	GRWO_T2	84	100	16	0.21	0.25	0.04	0	0	0	0	0	0	0	0
11/1/2024 20:12	55101	WERT_T1	0	0	0	0	0	0	-1.27	-1.28	1	1	0	600	600	0
11/1/2024 20:12	48902	FOSP_T2	12	15	3	0.21	0.23	0.02	0.05	0.02	0	0	0	0	0	0
11/1/2024 20:12	52402	GRPA_T2	183	226	43	0.5	0.83	0.33	-0.91	-0.94	0	0	0	0	0	0
11/1/2024 20:12	44802	EDAN_T2	0	0	0	0	0	0	-0.86	-0.85	0	0	0	0	0	0
11/1/2024 20:12	65502	MOJO_T2	162	100	-62	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
11/1/2024 20:12	10101	ALLE_T3	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:12	67001	STHI_T2	747	884	137	0.26	0.32	0.06	0	0	0	0	0	0	0	0
11/1/2024 20:12	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:12	66505	SMAN_T2	3	3	0	0.33	0.93	0.6	0	0	0	0	0	0	0	0
11/1/2024 20:12	22401	MORG_T2	2	9	7	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/1/2024 20:12	46004	BERW_T2	0	1	1	0	0.1	0.1	-0.69	-0.75	0	0	0	0	0	0
11/1/2024 20:12	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:12	67002	STHI_T2	142	394	252	0.14	0.16	0.02	0.62	0.59	0	0	0	0	0	0
11/1/2024 20:12	48901	FOSP_T2	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/1/2024 20:12	40902	JESH_T1	0	0	0	0	0	0	-0.81	-0.8	0	0	0	0	0	0
11/1/2024 20:12	43302	WATS_T2	4	4	0	0.83	0.8	-0.03	0	0	0	0	0	0	0	0
11/1/2024 20:12	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:12	22405	MORG_T2	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
11/1/2024 20:13	52006	LING_T2	2	2	0	1.15	1.25	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:13	45702	LIND_T2	1	1	0	1.1	1	-0.1	-0.5	-0.5	0	0	0	0	0	0
11/1/2024 20:13	48901	FOSP_T2	5	5	0	0.2	0.2	0	0.27	0.26	0	0	0	0	0	0
11/1/2024 20:13	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:13	14204	EALL_T2	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
11/1/2024 20:13	63501	HEID_TBK1-2	11	32	21	0.32	0.28	-0.04	0.42	0.39	0	0	0	0	0	0
11/1/2024 20:13	44505	HAMI_T2	0	0	0	0	0	0	0.39	0.44	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/1/2024 20:13	14802	TREI_T2	13	2	-11	0.27	0.1	-0.17	0.29	0.31	0	0	0	0	0	0
11/1/2024 20:13	52004	LING_T2	3	3	0	4.37	4.43	0.06	0.08	0.08	0	0	0	0	0	0
11/1/2024 20:13	48902	FOSP_T2	12	15	3	0.21	0.23	0.02	0	0	0	0	0	0	0	0
11/1/2024 20:13	40201	BEGA_T2	6	14	8	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
11/1/2024 20:13	23901	EFMO_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
11/1/2024 20:13	43202	MVIL_T2	0	10	10	0	0.19	0.19	-0.8	-0.78	0	0	0	0	0	0
11/1/2024 20:13	42701	AUGU_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:13	14801	TREI_T2	87	1	-86	0.18	0.2	0.02	0	0	0	0	0	0	0	0
11/1/2024 20:13	63303	GREE_T1	1	3	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/1/2024 20:13	63305	GREE_T1	3	3	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
11/1/2024 20:13	63306	GREE_T1	6	19	13	2.12	0.14	0.02	-2.15	-2.14	1	1	0	900	900	0
11/1/2024 20:13	52002	LING_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
11/1/2024 20:14	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:14	43304	WATS_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
11/1/2024 20:14	54601	SUMM_T2	12	13	1	0.43	0.57	0.14	-2.98	-3.04	2	2	0	2100	2100	0
11/1/2024 20:14	52404	GRPA_T2	10	29	19	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
11/1/2024 20:14	64704	LITI_T1	0	0	0	0	0	0	0.44	0.5	0	0	0	0	0	0
11/1/2024 20:14	52402	GRPA_T2	183	226	43	0.5	0.83	0.33	0	0	0	0	0	0	0	0
11/1/2024 20:14	52403	GRPA_T2	37	392	355	0.53	0.34	-0.19	0	0	0	0	0	0	0	0
11/1/2024 20:14	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:14	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.94	1	1	0	900	900	0
11/1/2024 20:14	14401	SSLA_T1	20	2	-18	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
11/1/2024 20:14	48902	FOSP_T2	12	15	3	0.21	0.23	0.02	0	0	0	0	0	0	0	0
11/1/2024 20:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:14	44802	EDAN_T2	0	0	0	0	0	0	-0.86	-0.85	0	0	0	0	0	0
11/1/2024 20:14	13704	SCHN_T2	5	6	1	0.46	0.25	-0.21	-0.46	-0.47	0	0	0	0	0	0
11/1/2024 20:14	14404	SSLA_T1	112	0	-112	0.16	0	-0.16	0	0	0	0	0	0	0	0
11/1/2024 20:14	43202	MVIL_T2	0	10	10	0	0.19	0.19	-0.8	-0.78	0	0	0	0	0	0
11/1/2024 20:14	48901	FOSP_T2	5	5	0	0.2	0.2	0	0.27	0.26	0	0	0	0	0	0
11/1/2024 20:14	43801	SWIL_T1	13	17	4	0.69	0.59	-0.1	0	0	0	0	0	0	0	0
11/1/2024 20:14	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:14	59102	WALK_T2	178	233	55	0.49	0.76	0.27	0	0	0	0	0	0	0	0
11/1/2024 20:14	52401	GRPA_T2	43	194	151	0.16	0.41	0.25	-0.4	-0.41	0	0	0	0	0	0
11/1/2024 20:14	43302	WATS_T2	4	4	0	0.83	0.8	-0.03	0	0	0	0	0	0	0	0
11/1/2024 20:14	59101	WALK_T2	28	34	6	0.51	0.86	0.35	-0.59	-0.65	0	0	0	0	0	0
11/1/2024 20:14	54001	SDLE_T1	239	288	49	0.39	0.4	0.01	0	0	0	0	0	0	0	0
11/1/2024 20:14	42701	AUGU_T1	1	1	0	1	1.1	0.1	0	0	2	2	0	1800	1800	0
11/1/2024 20:14	43802	SWIL_T1	0	0	0	0	0	0	-0.28	-0.27	1	1	0	600	600	0
11/1/2024 20:14	14403	SSLA_T1	10	0	-10	0.17	0	-0.17	0.52	0.49	0	0	0	0	0	0
11/1/2024 20:14	13701	SCHN_T2	18	4	-14	0.13	0.13	0	0	0	0	0	0	0	0	0
11/1/2024 20:14	14402	SSLA_T1	245	0	-245	0.22	0	-0.22	0	0	0	0	0	0	0	0
11/1/2024 20:15	10701	CATA_T2	0	0	0	0	0	0	0.52	0.55	0	0	0	0	0	0
11/1/2024 20:15	42903	MIDD_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/1/2024 20:15	52404	GRPA_T2	17	98	81	0.3	0.31	0.01	0	0	0	0	0	0	0	0
11/1/2024 20:15	67401	WAKE_T2	0	28	28	0	0.16	0.16	0	0	0	0	0	0	0	0
11/1/2024 20:15	46004	BERW_T2	0	1	1	0	0.2	0.2	-0.69	-0.75	0	0	0	0	0	0
11/1/2024 20:15	43202	MVIL_T2	1	42	41	0.1	0.23	0.13	-1.6	-1.56	0	0	0	0	0	0
11/1/2024 20:15	46101	MACI_T2	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
11/1/2024 20:15	20401	ASHF_T2	3	3	0	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
11/1/2024 20:15	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.17	0	0	0	0	0	0
11/1/2024 20:15	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
11/1/2024 20:15	45802	HEGI_T2	42	48	6	0.9	1.96	1.06	0.63	0.52	0	0	0	0	0	0
11/1/2024 20:15	52402	GRPA_T2	203	232	29	0.59	1.15	0.56	-0.91	-0.94	0	0	0	0	0	0
11/1/2024 20:15	10702	CATA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:15	43302	WATS_T2	4	4	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
11/1/2024 20:15	48902	FOSP_T2	15	17	2	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
11/1/2024 20:15	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:15	64305	LINC_T1	0	2	2	0	0.15	0.15	-0.65	-0.54	0	0	0	0	0	0
11/1/2024 20:15	52401	GRPA_T2	68	229	161	0.2	0.55	0.35	-0.4	-0.41	0	0	0	0	0	0
11/1/2024 20:15	42701	AUGU_T1	1	0	-1	1.1	0	-1.1	0	0	2	2	0	1800	1800	0
11/1/2024 20:15	66505	SMAN_T2	3	3	0	0.7	1.4	0.7	0	0	0	0	0	0	0	0
11/1/2024 20:15	52403	GRPA_T2	103	543	440	0.31	0.5	0.19	0	0	0	0	0	0	0	0
11/1/2024 20:15	20403	ASHF_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
11/1/2024 20:15	24702	FLND_T2	0	0	0	0	0	0	0.15	0.07	1	1	0	1200	1200	0
11/1/2024 20:15	44801	EDAN_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
11/1/2024 20:15	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:15	14801	TREI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/1/2024 20:15	42902	MIDD_T2	0	0	0	0	0	0	-1.3	-1.26	1	1	0	600	600	0
11/1/2024 20:15	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:15	14802	TREI_T2	2	0	-2	0.1	0	-0.1	0.29	0.31	0	0	0	0	0	0
11/1/2024 20:15	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:15	66302	MCGO_T2	0	0	0	0	0	0	-1.03	-1.06	0	0	0	0	0	0
11/1/2024 20:15	66303	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:15	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
11/1/2024 20:15	64303	LINC_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
11/1/2024 20:15	44301	BEAV_T2	0	0	0	0	0	0	-0.46	-0.54	1	1	0	600	600	0
11/1/2024 20:15	48901	FOSP_T2	5	5	0	0.2	0.26	0.06	0.27	0.26	0	0	0	0	0	0
11/1/2024 20:15	58401	MORO_T1	0	0	0	0	0	0	-1.91	-1.94	1	1	0	600	600	0
11/1/2024 20:15	59302	MCAL_T1	2	2	0	1.35	1.8	0.45	0	0	0	0	0	0	0	0
11/1/2024 20:15	59301	MCAL_T1	83	95	12	0.54	1.14	0.6	-1.29	-1.31	0	0	0	0	0	0
11/1/2024 20:16	52402	GRPA_T2	203	232	29	0.59	1.15	0.56	-0.91	-0.94	0	0	0	0	0	0
11/1/2024 20:16	13701	SCHN_T2	4	8	4	0.13	0.13	0	0	0	0	0	0	0	0	0
11/1/2024 20:16	59101	WALK_T2	33	34	1	0.61	1.13	0.52	0	0	0	0	0	0	0	0
11/1/2024 20:16	66503	MCGO_T2	3	147	144	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/1/2024 20:16	59102	WALK_T2	187	294	107	0.53	0.79	0.26	0.34	0.34	0	0	0	0	0	0
11/1/2024 20:16	67501	WEWI_T1	0	0	0	0	0	0	-0.58	-0.64	0	0	0	0	0	0
11/1/2024 20:16	52401	GRPA_T2	68	229	161	0.2	0.55	0.35	0	0	0	0	0	0	0	0
11/1/2024 20:16	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.42	0	0	0	0	0	0
11/1/2024 20:16	66903	SHIL_T2	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
11/1/2024 20:16	13704	SCHN_T2	6	6	0	0.23	0.27	0.04	-0.46	-0.47	0	0	0	0	0	0
11/1/2024 20:16	64901	MILL_T1	20	57	37	0.21	0.34	0.13	0	0	0	0	0	0	0	0
11/1/2024 20:16	40902	JESH_T1	0	0	0	0	0	0	-0.81	-0.8	0	0	0	0	0	0
11/1/2024 20:16	52403	GRPA_T2	103	543	440	0.31	0.5	0.19	-0.11	-0.13	0	0	0	0	0	0
11/1/2024 20:16	60801	BUCK_T1	14	48	34	0.16	0.29	0.13	-0.23	-0.23	0	0	0	0	0	0
11/1/2024 20:16	44801	EDAN_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
11/1/2024 20:16	42601	TUSC_T1	0	0	0	0	0	0	0.75	0.86	1	1	0	600	600	0
11/1/2024 20:16	64904	MILL_T1	99	312	213	0.15	0.25	0.1	-0.54	-0.56	0	0	0	0	0	0
11/1/2024 20:16	52404	GRPA_T2	17	98	81	0.3	0.31	0.01	0	0	0	0	0	0	0	0
11/1/2024 20:16	42701	AUGU_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
11/1/2024 20:16	45802	HEGI_T2	42	48	6	0.9	1.96	1.06	0	0	0	0	0	0	0	0
11/1/2024 20:16	59402	RFLD_T2	1	2	1	0.5	0.5	0	-0.9	-0.89	1	1	0	450	450	0
11/1/2024 20:16	60803	BUCK_T1	1	19	18	0.1	0.19	0.09	0	0	0	0	0	0	0	0
11/1/2024 20:16	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:16	44802	EDAN_T2	0	0	0	0	0	0	-0.86	-0.85	0	0	0	0	0	0
11/1/2024 20:16	65502	MOJO_T2	61	295	234	0.1	0.24	0.14	0	0	0	0	0	0	0	0
11/1/2024 20:16	54001	SDLE_T1	208	372	164	0.34	0.38	0.04	0	0	0	0	0	0	0	0
11/1/2024 20:16	40201	BEGA_T2	11	18	7	0.15	0.2	0.05	0	0	0	0	0	0	0	0
11/1/2024 20:16	43304	WATS_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
11/1/2024 20:16	43302	WATS_T2	4	4	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
11/1/2024 20:17	52401	GRPA_T2	68	229	161	0.2	0.55	0.35	0	0	0	0	0	0	0	0
11/1/2024 20:17	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.94	1	1	0	900	900	0
11/1/2024 20:17	59302	MCAL_T1	2	2	0	1.35	1.8	0.45	0	0	0	0	0	0	0	0
11/1/2024 20:17	52404	GRPA_T2	17	98	81	0.3	0.31	0.01	0	0	0	0	0	0	0	0
11/1/2024 20:17	58001	WCAR_T1	4	4	0	1.08	1.5	0.42	0	0	0	0	0	0	0	0
11/1/2024 20:17	41901	REED_T1	9	9	0	0.2	0.23	0.03	0	0	0	0	0	0	0	0
11/1/2024 20:17	40201	BEGA_T2	11	18	7	0.15	0.2	0.05	0	0	0	0	0	0	0	0
11/1/2024 20:17	65503	MOJO_T2	3	147	144	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/1/2024 20:17	59301	MCAL_T1	83	95	12	0.54	1.14	0.6	-1.29	-1.31	0	0	0	0	0	0
11/1/2024 20:17	52403	GRPA_T2	103	543	440	0.31	0.5	0.19	-0.11	-0.13	0	0	0	0	0	0
11/1/2024 20:17	58402	MORO_T1	0	0	0	0	0	0	0.41	0.44	1	1	0	900	900	0
11/1/2024 20:17	65502	MOJO_T2	61	295	234	0.1	0.24	0.14	-1.06	-0.99	0	0	0	0	0	0
11/1/2024 20:17	44901	SCOT_T2	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
11/1/2024 20:17	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
11/1/2024 20:17	58003	WCAR_T1	1	1	0	0.6	1	0.4	0.7	0.68	0	0	0	0	0	0
11/1/2024 20:17	67002	STHI_T2	170	574	404	0.14	0.2	0.06	0	0	0	0	0	0	0	0
11/1/2024 20:17	67001	STHI_T2	721	996	275	0.26	0.39	0.13	0.07	0.07	0	0	0	0	0	0
11/1/2024 20:17	52402	GRPA_T2	203	232	29	0.59	1.15	0.56	0	0	0	0	0	0	0	0
11/1/2024 20:17	41902	REED_T1	0	0	0	0	0	0	0.92	1.02	0	0	0	0	0	0
11/1/2024 20:18	63305	GREE_T1	3	10	7	0.1	0.18	0.08	0	0	0	0	0	0	0	0
11/1/2024 20:18	64802	MONE_T2	3	173	170	0.17	0.15	-0.02	0.09	0.09	0	0	0	0	0	0
11/1/2024 20:18	63304	GREE_T1	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
11/1/2024 20:18	42902	MIDD_T2	0	0	0	0	0	0	-1.3	-1.26	1	1	0	600	600	0
11/1/2024 20:18	48902	FOSP_T2	15	17	2	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
11/1/2024 20:18	63501	HEID_TBK1-2	16	38	22	0.24	0.48	0.24	0.42	0.39	0	0	0	0	0	0
11/1/2024 20:18	67002	STHI_T2	170	574	404	0.14	0.2	0.06	0	0	0	0	0	0	0	0
11/1/2024 20:18	67001	STHI_T2	721	996	275	0.26	0.39	0.13	0.07	0.07	0	0	0	0	0	0
11/1/2024 20:18	55002	NEWP_T1	4	4	0	1.35	1.53	0.18	-0.29	-0.28	0	0	0	0	0	0
11/1/2024 20:18	42903	MIDD_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/1/2024 20:18	64801	MONE_T2	3	10	7	0.1	0.14	0.04	0	0	0	0	0	0	0	0
11/1/2024 20:18	54602	SUMM_T2	0	14	14	0	0.32	0.32	0	0	0	0	0	0	0	0
11/1/2024 20:18	15001	BLMO_T1	3	4	1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
11/1/2024 20:18	46001	BERW_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
11/1/2024 20:18	45303	WBER_T2	13	9	-4	1.42	1.83	0.41	-0.35	-0.35	0	0	0	0	0	0
11/1/2024 20:18	48901	FOSP_T2	5	5	0	0.2	0.26	0.06	0.27	0.26	0	0	0	0	0	0
11/1/2024 20:18	54601	SUMM_T2	12	13	1	0.43	0.83	0.4	-2.98	-3.04	2	2	0	2100	2100	0
11/1/2024 20:18	63303	GREE_T1	1	3	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/1/2024 20:18	63306	GREE_T1	9	18	9	0.13	0.14	0.01	0	0	0	0	0	0	0	0
11/1/2024 20:18	59402	RFLD_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
11/1/2024 20:18	55001	NEWP_T1	0	21	21	0	0.15	0.15	0	0	0	0	0	0	0	0
11/1/2024 20:18	54603	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:19	65503	MOJO_T2	3	147	144	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/1/2024 20:19	64201	KINZ_T1	3	6	3	0.1	0.45	0.35	0	0	0	0	0	0	0	0
11/1/2024 20:19	65502	MOJO_T2	61	295	234	0.1	0.24	0.14	-1.06	-0.99	0	0	0	0	0	0
11/1/2024 20:19	59302	MCAL_T1	2	2	0	1.35	1.8	0.45	0	0	0	0	0	0	0	0
11/1/2024 20:19	55101	WERT_T1	0	0	0	0	0	0	-1.27	-1.28	1	1	0	600	600	0
11/1/2024 20:19	64204	KINZ_T1	2	28	26	0.55	0.25	-0.3	0	0	0	0	0	0	0	0
11/1/2024 20:19	59301	MCAL_T1	83	95	12	0.54	1.14	0.6	0	0	0	0	0	0	0	0
11/1/2024 20:19	64202	KINZ_T1	3	10	7	0.27	0.33	0.06	0	0	0	0	0	0	0	0
11/1/2024 20:19	55105	WERT_T1	0	0	0	0	0	0	-0.65	-0.69	1	1	0	900	900	0
11/1/2024 20:19	64203	KINZ_T1	0	0	0	0	0	0	0.17	0.2	0	0	0	0	0	0
11/1/2024 20:19	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:20	48902	FOSP_T2	15	17	2	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
11/1/2024 20:20	52404	GRPA_T2	17	98	81	0.3	0.31	0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/1/2024 20:20	43302	WATS_T2	4	4	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
11/1/2024 20:20	52401	GRPA_T2	68	229	161	0.2	0.55	0.35	0	0	0	0	0	0	0	0
11/1/2024 20:20	52402	GRPA_T2	203	232	29	0.59	1.15	0.56	-0.91	-0.94	0	0	0	0	0	0
11/1/2024 20:20	52403	GRPA_T2	103	543	440	0.31	0.5	0.19	0	0	0	0	0	0	0	0
11/1/2024 20:20	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/2024 20:20	58401	MORO_T1	0	0	0	0	0	0	-1.91	-1.94	1	1	0	600	600	0
11/1/2024 20:20	48901	FOSP_T2	5	5	0	0.2	0.26	0.06	0.54	0.52	0	0	0	0	0	0
11/1/2024 20:21	52402	GRPA_T2	203	232	29	0.59	1.15	0.56	0	0	0	0	0	0	0	0
11/1/2024 20:21	63302	GREE_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
11/1/2024 20:21	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/1/2024 20:21	54504	ENOL_T2	0	0	0	0	0	0	-1.15	-1.14	1	1	0	600	600	0
11/1/2024 20:21	52002	LING_T2	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
11/1/2024 20:21	52404	GRPA_T2	17	98	81	0.3	0.31	0.01	0	0	0	0	0	0	0	0
11/1/2024 20:21	52004	LING_T2	3	3	0	4.4	4.43	0.03	0.08	0.03	0	0	0	0	0	0
11/1/2024 20:21	52401	GRPA_T2	68	229	161	0.2	0.55	0.35	0	0	0	0	0	0	0	0
11/1/2024 20:21	63305	GREE_T1	3	10	7	0.1	0.18	0.08	0	0	0	0	0	0	0	0
11/1/2024 20:21	59101	WALK_T2	33	34	1	0.61	1.13	0.52	0	0	0	0	0	0	0	0
11/1/2024 20:21	52006	LING_T2	2	2	0	1.2	1.25	0.05	0	0	0	0	0	0	0	0
11/1/2024 20:21	59102	WALK_T2	187	294	107	0.53	0.79	0.26	0.34	0.35	0	0	0	0	0	0
11/1/2024 20:21	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
11/1/2024 20:21	52403	GRPA_T2	103	543	440	0.31	0.5	0.19	-0.13	-0.14	0	0	0	0	0	0
11/1/2024 20:21	63306	GREE_T1	9	18	9	0.13	0.14	0.01	0	0	0	0	0	0	0	0
11/1/2024 20:21	54502	ENOL_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
11/1/2024 20:21	63303	GREE_T1	1	3	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/1/2024 20:22	52402	GRPA_T2	203	232	29	0.59	1.15	0.56	-0.94	-0.94	0	0	0	0	0	0
11/1/2024 20:22	52401	GRPA_T2	68	229	161	0.2	0.55	0.35	0	0	0	0	0	0	0	0
11/1/2024 20:22	44301	BEAV_T2	0	0	0	0	0	0	-0.54	-0.54	1	1	0	600	600	0
11/1/2024 20:22	66505	SMAN_T2	3	3	0	0.7	1.4	0.7	0	0	0	0	0	0	0	0
11/1/2024 20:22	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
11/1/2024 20:22	52404	GRPA_T2	17	98	81	0.3	0.31	0.01	0	0	0	0	0	0	0	0
11/1/2024 20:22	44802	EDAN_T2	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
11/1/2024 20:22	64904	MILL_T1	99	312	213	0.15	0.25	0.1	-0.56	-0.54	0	0	0	0	0	0
11/1/2024 20:22	52403	GRPA_T2	103	543	440	0.31	0.5	0.19	0	0	0	0	0	0	0	0
11/1/2024 20:22	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
11/1/2024 20:22	64901	MILL_T1	20	57	37	0.21	0.34	0.13	0	0	0	0	0	0	0	0
11/1/2024 20:23	41902	REED_T1	0	0	0	0	0	0	1.02	0.98	0	0	0	0	0	0
11/1/2024 20:23	41901	REED_T1	9	9	0	0.2	0.23	0.03	0	0	0	0	0	0	0	0
11/1/2024 20:24	48902	FOSP_T2	15	17	2	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
11/1/2024 20:24	48901	FOSP_T2	5	5	0	0.2	0.26	0.06	0.26	0.25	0	0	0	0	0	0
11/1/2024 20:28	48901	FOSP_T2	5	5	0	0.2	0.26	0.06	0.26	0.25	0	0	0	0	0	0
11/1/2024 20:28	48902	FOSP_T2	15	17	2	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
11/1/2024 20:39	48902	FOSP_T2	8	18	10	0.16	0.21	0.05	0	0	0	0	0	0	0	0
11/1/2024 20:39	48901	FOSP_T2	4	6	2	0.18	0.23	0.05	0.25	0.27	0	0	0	0	0	0
11/1/2024 20:42	15702	TANN_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
11/1/2024 20:42	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
11/1/2024 20:44	67001	STHI_T2	871	1015	144	0.32	0.4	0.08	0	0	0	0	0	0	0	0
11/1/2024 20:44	67002	STHI_T2	386	629	243	0.17	0.2	0.03	0.64	0.58	0	0	0	0	0	0
11/1/2024 20:49	67401	WAKE_T2	28	42	14	0.16	0.17	0.01	0	0	0	0	0	0	0	0
11/1/2024 20:49	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
11/1/2024 20:53	10705	CATA_T2	0	0	0	0	0	0	-0.03	0.03	0	0	0	0	0	0
11/1/2024 20:53	10702	CATA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/1/2024 21:01	50506	MECH_T1	533	1141	608	0.15	0.32	0.17	0	0	0	0	0	0	0	0
11/1/2024 21:01	54502	ENOL_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
11/1/2024 21:01	50504	MECH_T1	292	862	570	0.19	0.33	0.14	0	0	0	0	0	0	0	0
11/1/2024 21:01	50501	MECH_T1	21	191	170	0.36	0.25	-0.11	0.1	-0.07	0	0	0	0	0	0
11/1/2024 21:01	50502	MECH_T1	21	234	213	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
11/1/2024 21:01	54505	ENOL_T2	1	1	0	1.2	1.3	0.1	-1.38	-1.4	1	1	0	600	600	0
11/1/2024 21:01	50503	MECH_T1	112	255	143	0.17	0.26	0.09	0	0	0	0	0	0	0	0
11/1/2024 21:01	50505	MECH_T1	187	796	609	0.15	0.28	0.13	0	0	0	0	0	0	0	0
11/1/2024 21:01	54501	ENOL_T2	3	4	1	0.13	0.5	0.37	0	0	0	0	0	0	0	0
11/1/2024 21:20	44703	MUNC_T2	2	3	1	1.6	1.23	-0.37	0	0	0	0	0	0	0	0
11/1/2024 21:20	44701	MUNC_T2	298	393	95	0.36	0.43	0.07	0	0	0	0	0	0	0	0
11/1/2024 21:20	44702	MUNC_T2	34	100	66	0.16	0.26	0.1	0	0	0	0	0	0	0	0
11/1/2024 21:21	54603	SUMM_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
11/1/2024 21:21	54602	SUMM_T2	9	16	7	0.31	0.69	0.38	0	0	0	0	0	0	0	0
11/1/2024 21:21	54601	SUMM_T2	13	13	0	0.98	1.18	0.2	-3.11	-3.14	2	2	0	2100	2100	0
11/1/2024 23:16	54001	SDLE_T1	8	9	1	0.93	1.02	0.09	0	0	0	0	0	0	0	0
11/1/2024 23:48	54001	SDLE_T1	9	9	0	0.99	1.08	0.09	0	0	0	0	0	0	0	0
11/2/2024 7:04	64101	REFR_T1	239	85	-154	0.2	0.16	-0.04	-0.01	-0.01	0	0	0	0	0	0
11/2/2024 7:05	52404	GRPA_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
11/2/2024 7:05	63302	GREE_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
11/2/2024 7:05	64704	LITI_T1	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
11/2/2024 7:05	66504	SMAN_T2	0	0	0	0	0	0	-1.16	-1.19	0	0	0	0	0	0
11/2/2024 7:05	54501	ENOL_T2	4	3	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
11/2/2024 7:05	63306	GREE_T1	0	0	0	0	0	0	-9.16	-9.15	4	4	0	3600	3600	0
11/2/2024 7:05	52403	GRPA_T2	3	3	0	1.1	1.4	0.3	-0.71	-0.8	0	0	0	0	0	0
11/2/2024 7:05	54504	ENOL_T2	0	3	3	0	0	0	-2.52	-2.5	2	2	0	1200	1200	0
11/2/2024 7:05	63501	HEID_TBK1-2	1	1	0	1.1	1	-0.1	1.05	1.06	0	0	0	0	0	0
11/2/2024 7:05	63801	HEMP_T1	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
11/2/2024 7:05	54205	PENN_T1	12	0	-12	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/2/2024 7:05	66505	SMAN_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/2/2024 7:05	54001	SDLE_T1	3	1	-2	0.43	0.6	0.17	0	0	0	0	0	0	0	0
11/2/2024 7:05	50624	CCTY_T2	2	2	0	6.25	5.95	-0.3	0	0	0	0	0	0	0	0
11/2/2024 7:05	54505	ENOL_T2	1	1	0	1.1	0.9	-0.2	-1.43	-1.45	1	1	0	600	600	0
11/2/2024 7:05	65502	MOJO_T2	0	0	0	0	0	0	2.71	2.72	0	0	0	0	0	0
11/2/2024 7:05	67001	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/2/2024 7:05	64904	MILL_T1	0	0	0	0	0	0	-1.56	-1.56	0	0	0	0	0	0
11/2/2024 7:05	63305	GREE_T1	0	0	0	0	0	0	-3.25	-3.67	0	0	0	0	0	0
11/2/2024 7:05	54502	ENOL_T2	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
11/2/2024 7:05	54201	PENN_T1	20	10	-10	0.61	0.86	0.25	0	0	0	0	0	0	0	0
11/2/2024 7:05	58003	WCAR_T1	1	1	0	1.3	1.2	-0.1	1.95	2.09	0	0	0	0	0	0
11/2/2024 7:05	51101	CARL_T1	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
11/2/2024 7:05	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/2/2024 7:05	58001	WCAR_T1	4	4	0	1.88	1.73	-0.15	0	0	0	0	0	0	0	0
11/2/2024 7:05	52401	GRPA_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
11/2/2024 7:05	59102	WALK_T2	59	4	-55	0.17	0.18	0.01	0.27	0.28	0	0	0	0	0	0
11/2/2024 7:05	55101	WERT_T1	0	0	0	0	0	0	-2.72	-2.59	2	2	0	1200	1200	0
11/2/2024 7:05	66901	SHIL_T2	1	1	0	0.3	0.1	-0.2	-0.61	-0.63	0	0	0	0	0	0
11/2/2024 7:05	55105	WERT_T1	0	0	0	0	0	0	-0.82	-0.86	1	1	0	900	900	0
11/2/2024 7:05	66903	SHIL_T2	0	0	0	0	0	0	-8.95	-8.95	0	0	0	0	0	0
11/2/2024 7:05	59101	WALK_T2	2	1	-1	0.2	0.1	-0.1	-0.67	-0.73	0	0	0	0	0	0
11/2/2024 7:05	67002	STHI_T2	0	0	0	0	0	0	3.51	3.51	0	0	0	0	0	0
11/2/2024 7:05	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/2/2024 7:05	55002	NEWP_T1	3	2	-1	0.33	0.5	0.17	-0.62	-0.6	0	0	0	0	0	0
11/2/2024 7:05	51102	CARL_T1	114	45	-69	0.27	0.13	-0.14	0	0	0	0	0	0	0	0
11/2/2024 7:05	54506	ENOL_T2	0	0	0	0	0	0	0.28	0.3	1	1	0	600	600	0
11/2/2024 7:05	52402	GRPA_T2	17	14	-3	0.35	0.32	-0.03	-4.64	-4.69	0	0	0	0	0	0
11/2/2024 7:05	64101	REFR_T1	239	85	-154	0.2	0.16	-0.04	-0.09	-0.09	0	0	0	0	0	0
11/2/2024 7:05	50502	MECH_T1	1	1	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
11/2/2024 7:05	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/2/2024 7:05	50625	CCTY_T2	3	6	3	4.13	2.22	-1.91	0	0	0	0	0	0	0	0
11/2/2024 7:05	63804	HEMP_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
11/2/2024 7:05	66302	MCGO_T2	0	0	0	0	0	0	-2.2	-3.55	0	2	2	0	1200	1200
11/2/2024 7:05	50623	CCTY_T2	5	5	0	5.92	5.72	-0.2	0	0	0	0	0	0	0	0
11/2/2024 7:05	63304	GREE_T1	0	0	0	0	0	0	-1.34	-1.36	0	0	0	0	0	0
11/2/2024 7:05	66902	SHIL_T2	0	0	0	0	0	0	-1.17	-1.14	0	0	0	0	0	0
11/2/2024 7:05	63601	LETO_T1	1	0	-1	0.1	0	-0.1	0.23	0.24	1	1	0	900	900	0
11/2/2024 7:05	50501	MECH_T1	4	0	-4	0.25	0	-0.25	-0.43	-0.46	0	0	0	0	0	0
11/2/2024 7:05	55001	NEWP_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
11/2/2024 7:05	54203	PENN_T1	18	18	0	1.42	1.26	-0.16	1.35	1.27	0	0	0	0	0	0
11/2/2024 7:05	51107	CARL_T1	30	0	-30	0.18	0	-0.18	0	0	0	0	0	0	0	0
11/2/2024 7:07	64904	MILL_T1	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
11/2/2024 7:16	64904	MILL_T1	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
11/2/2024 7:52	64101	REFR_T1	2	41	39	0.15	0.14	-0.01	-0.01	-0.01	0	0	0	0	0	0
11/2/2024 8:11	66902	SHIL_T2	0	0	0	0	0	0	-1.13	-1.13	0	0	0	0	0	0
11/2/2024 8:11	66901	SHIL_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
11/2/2024 9:25	15203	SFAR_T2	0	1	1	0	0.2	0.2	-1.4	-1.39	0	0	0	0	0	0
11/2/2024 9:37	54206	PENN_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
11/2/2024 9:37	54202	PENN_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
11/2/2024 9:39	54202	PENN_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
11/2/2024 9:39	54206	PENN_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
11/2/2024 9:40	14201	EALL_T1	0	0	0	0	0	0	0.46	0.49	0	0	0	0	0	0
11/2/2024 10:00	66903	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/2/2024 10:00	67503	WEWI_T2	1	1	0	7.2	7.5	0.3	-0.35	-0.33	0	0	0	0	0	0
11/2/2024 10:00	67502	WEWI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/2/2024 10:00	28102	TWLA_T2	1	3	2	0.2	0.4	0.2	0	0.18	0	0.22	0	0	0	0
11/2/2024 10:00	64201	KINZ_T1	0	3	3	0	0.33	0.33	-0.43	-0.31	2	2	0	1200	1200	0
11/2/2024 10:00	64204	KINZ_T1	4	65	61	0.65	0.72	0.07	0	0	0	0	0	0	0	0
11/2/2024 10:00	40902	JESH_T1	0	0	0	0	0	0	-1.46	-1.47	1	1	0	600	600	0
11/2/2024 10:00	40901	JESH_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
11/2/2024 10:00	64202	KINZ_T1	2	4	2	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
11/2/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.38	0.34	0	0	0	0	0	0
11/2/2024 10:00	66901	SHIL_T2	0	0	0	0	0	0	-1.98	-1.97	1	1	0	1200	1200	0
11/2/2024 10:00	17002	RIRO_T2	2	2	0	0.35	0.45	0.1	0.27	0.26	0	0	0	0	0	0
11/2/2024 10:12	15203	SFAR_T2	1	2	1	0.3	0.3	0	-4.03	-4.12	0	0	0	0	0	0
11/2/2024 10:20	13301	ORVI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/2/2024 10:20	13303	ORVI_T1	3	6	3	0.13	0.33	0.2	0.6	0.82	0	0	0	0	0	0
11/2/2024 10:35	13301	ORVI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/2/2024 10:35	13303	ORVI_T1	2	6	4	0.1	0.33	0.23	0.82	0.61	0	0	0	0	0	0
11/2/2024 10:37	58402	MORO_T1	1	2	1	0.2	0.2	0	0.18	0.13	1	1	0	900	900	0
11/2/2024 10:39	58402	MORO_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
11/2/2024 10:39	58401	MORO_T1	0	0	0	0	0	0	-1.92	-0.97	1	1	0	600	600	0
11/2/2024 10:42	58402	MORO_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
11/2/2024 10:42	58401	MORO_T1	0	0	0	0	0	0	-1.92	-0.97	1	1	0	600	600	0
11/2/2024 10:50	15603	NSTR_T2	1	1	0	0.2	0.4	0.2	-0.65	-0.68	0	0	0	0	0	0
11/2/2024 11:18	13301	ORVI_T1	18	12	-6	0.1	0.1	0	-0.71	-0.71	0	0	0	0	0	0
11/2/2024 11:18	13303	ORVI_T1	7	8	1	0.19	0.35	0.16	0	0	0	0	0	0	0	0
11/2/2024 11:23	10801	CHHI_T1	10	16	6	0.35	0.44	0.09	-1.72	-1.72	2	2	0	1500	1500	0
11/2/2024 11:24	10801	CHHI_T1	10	16	6	0.35	0.44	0.09	-1.72	-1.72	2	2	0	1500	1500	0
11/2/2024 11:43	13303	ORVI_T1	7	4	-3	0.39	0.15	-0.24	0.6	0.55	0	0	0	0	0	0
11/2/2024 11:43	13301	ORVI_T1	12	0	-12	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/2/2024 12:03	15603	NSTR_T2	1	1	0	0.5	0.5	0	-0.64	-0.63	0	0	0	0	0	0
11/2/2024 13:43	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/2/2024 13:43	52403	GRPA_T2	45	105	60	0.43	0.3	-0.13	-0.15	-0.14	0	0	0	0	0	0
11/2/2024 13:43	52404	GRPA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/2/2024 13:43	52402	GRPA_T2	3	4	1	1.07	0.83	-0.24	0	0	0	0	0	0	0	0
11/2/2024 16:23	58401	MORO_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	600	600	0
11/2/2024 20:00	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/2/2024 20:02	15203	SFAR_T2	0	0	0	0	0	0	-1.38	-1.36	0	0	0	0	0	0
11/2/2024 20:02	13303	ORVI_T1	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
11/2/2024 20:03	13301	ORVI_T1	0	0	0	0	0	0	0.06	0.09	0	0	0	0	0	0
11/2/2024 20:07	10801	CHHI_T1	0	1	1	0	0	0	-1.72	-1.7	2	2	0	1500	1500	0
11/2/2024 20:07	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.38	0	0	0	0	0	0
11/2/2024 20:08	52404	GRPA_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
11/2/2024 20:08	52403	GRPA_T2	2	3	1	1.05	1.1	0.05	-0.2	-0.17	0	0	0	0	0	0
11/2/2024 20:08	52402	GRPA_T2	3	3	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/2/2024 20:09	15603	NSTR_T2	0	0	0	0	0	0	-0.63	-0.61	0	0	0	0	0	0
11/2/2024 20:11	10801	CHHI_T1	0	1	1	0	0	0	-1.72	-1.7	2	2	0	1500	1500	0
11/2/2024 20:14	58401	MORO_T1	0	0	0	0	0	0	-1.89	-1.92	1	1	0	600	600	0
11/2/2024 20:15	58402	MORO_T1	0	0	0	0	0	0	0.13	0.11	1	1	0	900	900	0
11/2/2024 20:15	13303	ORVI_T1	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
11/2/2024 20:16	58401	MORO_T1	0	0	0	0	0	0	-1.89	-1.92	1	1	0	600	600	0
11/2/2024 20:19	58401	MORO_T1	0	0	0	0	0	0	-1.89	-1.92	1	1	0	600	600	0
11/2/2024 20:26	15203	SFAR_T2	0	0	0	0	0	0	-1.38	-1.36	0	0	0	0	0	0
11/2/2024 20:34	13303	ORVI_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
11/3/2024 8:05	66505	SMAN_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
11/3/2024 8:05	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 8:10	11601	CEAL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
11/3/2024 8:14	40504	CRES_T1	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
11/3/2024 8:19	44902	SCOT_T2	2	2	0	0.1	0.2	0.1	-0.97	-0.93	0	0	0	0	0	0
11/3/2024 8:19	44901	SCOT_T2	42	64	22	0.2	0.23	0.03	0	0	0	0	0	0	0	0
11/3/2024 8:31	40101	HUNT_T2	4	4	0	0.4	0.37	-0.03	-1.42	-1.44	0	0	0	0	0	0
11/3/2024 8:33	64201	KINZ_T1	2	1	-1	0.75	0.9	0.15	0	0	0	0	0	0	0	0
11/3/2024 8:33	64203	KINZ_T1	0	0	0	0	0	0	0.15	0.05	0	0	0	0	0	0
11/3/2024 8:33	64202	KINZ_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/3/2024 8:33	64204	KINZ_T1	1	14	13	0.1	0.26	0.16	0	0	0	0	0	0	0	0
11/3/2024 8:40	40501	CRES_T2	7	7	0	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
11/3/2024 8:40	40502	CRES_T2	21	19	-2	0.41	0.33	-0.08	-0.34	-0.35	0	0	0	0	0	0
11/3/2024 8:42	40504	CRES_T1	0	1	1	0	0.1	0.1	-0.79	-0.79	0	0	0	0	0	0
11/3/2024 8:43	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.26	0.22	1	1	0	600	600	0
11/3/2024 8:43	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 8:43	40504	CRES_T1	0	1	1	0	0.1	0.1	-0.79	-0.79	0	0	0	0	0	0
11/3/2024 8:44	40502	CRES_T2	21	19	-2	0.41	0.33	-0.08	-0.34	-0.35	0	0	0	0	0	0
11/3/2024 8:44	40501	CRES_T2	7	7	0	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
11/3/2024 8:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 8:47	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 8:48	42001	MNVL_T2	1	1	0	1.3	0.1	-1.2	0.68	0.71	0	0	0	0	0	0
11/3/2024 8:48	45702	LIND_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
11/3/2024 8:48	42002	MNVL_T2	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
11/3/2024 8:50	42002	MNVL_T2	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
11/3/2024 8:50	59202	THOM_T1	379	394	15	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
11/3/2024 8:50	59201	THOM_T1	47	50	3	0.32	0.3	-0.02	0	0	0	0	0	0	0	0
11/3/2024 8:50	42001	MNVL_T2	1	1	0	1.3	0.1	-1.2	0.68	0.71	0	0	0	0	0	0
11/3/2024 8:56	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/3/2024 8:56	45501	DERR_T2	0	0	0	0	0	0	0.22	0.25	1	1	0	600	600	0
11/3/2024 9:00	40502	CRES_T2	9	24	15	0.27	0.29	0.02	-0.35	-0.37	0	0	0	0	0	0
11/3/2024 9:00	40501	CRES_T2	7	9	2	0.27	0.33	0.06	0	0	0	0	0	0	0	0
11/3/2024 9:02	63501	HEID_TBK1-2	1	1	0	0.2	0.2	0	0.33	0.35	0	0	0	0	0	0
11/3/2024 9:04	45702	LIND_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
11/3/2024 9:08	57205	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/3/2024 9:08	57201	ROSS_T1	2	3	1	0.1	0.17	0.07	-1.11	-1.11	0	0	0	0	0	0
11/3/2024 9:13	44301	BEAV_T2	2	3	1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
11/3/2024 9:14	23901	EFMO_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
11/3/2024 9:14	63501	HEID_TBK1-2	1	1	0	0.2	0.2	0	0.35	0.35	0	0	0	0	0	0
11/3/2024 9:15	45701	LIND_T2	0	0	0	0	0	0	-1.77	-1.74	0	0	0	0	0	0
11/3/2024 9:18	63501	HEID_TBK1-2	0	2	2	0	0.45	0.45	0.7	0.7	0	0	0	0	0	0
11/3/2024 9:28	40504	CRES_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/3/2024 9:29	40501	CRES_T2	8	10	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
11/3/2024 9:29	11903	ETEX_T1	0	0	0	0	0	0	0.28	0.31	0	0	0	0	0	0
11/3/2024 9:29	40502	CRES_T2	19	23	4	0.31	0.3	-0.01	-0.39	-0.38	0	0	0	0	0	0
11/3/2024 9:30	63601	LETO_T1	4	8	4	0.5	0.56	0.06	-0.2	-0.35	2	2	0	1800	1800	0
11/3/2024 9:30	45702	LIND_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
11/3/2024 9:33	52402	GRPA_T2	3	3	0	0.83	1.03	0.2	0	0	0	0	0	0	0	0
11/3/2024 9:33	52403	GRPA_T2	10	59	49	0.56	0.31	-0.25	-0.22	-0.21	0	0	0	0	0	0
11/3/2024 9:33	52404	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/3/2024 9:33	54505	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/3/2024 9:33	54506	ENOL_T2	0	0	0	0	0	0	0.32	0.25	0	0	0	0	0	0
11/3/2024 9:34	52404	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/3/2024 9:34	52402	GRPA_T2	3	3	0	0.83	1.03	0.2	-1.04	-0.99	0	0	0	0	0	0
11/3/2024 9:34	52403	GRPA_T2	10	59	49	0.56	0.31	-0.25	0	0	0	0	0	0	0	0
11/3/2024 9:48	54202	PENN_T2	4	4	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
11/3/2024 9:48	54206	PENN_T2	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
11/3/2024 9:49	54201	PENN_T1	11	10	-1	0.68	0.66	-0.02	0	0	0	0	0	0	0	0
11/3/2024 9:49	54203	PENN_T1	21	23	2	0.9	0.9	0	0.73	0.75	0	0	0	0	0	0
11/3/2024 9:50	54201	PENN_T1	11	10	-1	0.68	0.66	-0.02	0	0	0	0	0	0	0	0
11/3/2024 9:50	54203	PENN_T1	21	23	2	0.9	0.9	0	0	0	0	0	0	0	0	0
11/3/2024 9:51	41902	REED_T1	0	1	1	0	0	0	0.72	0.8	0	0	0	0	0	0
11/3/2024 9:52	54203	PENN_T1	21	23	2	0.9	0.9	0	0.75	0.72	0	0	0	0	0	0
11/3/2024 9:52	54201	PENN_T1	11	10	-1	0.68	0.66	-0.02	0	0	0	0	0	0	0	0
11/3/2024 9:53	60301	TWVA_T2	0	0	0	0	0	0	-3.02	-2.98	2	2	0	2400	2400	0
11/3/2024 9:56	29402	BELT_T1	2	3	1	4.15	2.93	-1.22	0	0	0	0	0	0	0	0
11/3/2024 10:00	67502	WEWI_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
11/3/2024 10:00	54505	ENOL_T2	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
11/3/2024 10:00	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
11/3/2024 10:00	54506	ENOL_T2	0	0	0	0	0	0	0.34	0.28	0	1	1	0	600	600
11/3/2024 10:00	66903	SHIL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
11/3/2024 10:00	57205	ROSS_T1	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
11/3/2024 10:00	67503	WEWI_T2	1	1	0	6.4	7	0.6	-0.4	-0.43	0	0	0	0	0	0
11/3/2024 10:00	66901	SHIL_T2	0	0	0	0	0	0	-1.93	-1.92	1	1	0	1200	1200	0
11/3/2024 10:00	17002	RIRO_T2	1	2	1	0.6	0.5	-0.1	0.26	0.28	0	0	0	0	0	0
11/3/2024 10:00	57201	ROSS_T1	3	5	2	0.33	0.22	-0.11	-1.12	-1.1	0	0	0	0	0	0
11/3/2024 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
11/3/2024 10:00	40504	CRES_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
11/3/2024 10:01	29402	BELT_T1	2	3	1	4.15	2.97	-1.18	0	0	0	0	0	0	0	0
11/3/2024 10:02	40504	CRES_T1	1	1	0	0.6	0.8	0.2	-0.79	-0.77	0	0	0	0	0	0
11/3/2024 10:02	58401	MORO_T1	0	0	0	0	0	0	-0.86	-0.9	1	1	0	600	600	0
11/3/2024 10:04	52403	GRPA_T2	54	131	77	0.29	0.36	0.07	-0.22	-0.2	0	0	0	0	0	0
11/3/2024 10:04	52402	GRPA_T2	3	3	0	0.97	0.93	-0.04	0	0	0	0	0	0	0	0
11/3/2024 10:04	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/3/2024 10:04	52404	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/3/2024 10:05	58401	MORO_T1	0	0	0	0	0	0	-0.86	-0.9	1	1	0	600	600	0
11/3/2024 10:08	57205	ROSS_T1	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
11/3/2024 10:08	57201	ROSS_T1	3	5	2	0.33	0.22	-0.11	0	0	0	0	0	0	0	0
11/3/2024 10:08	57203	ROSS_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
11/3/2024 10:09	14705	TREX_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
11/3/2024 10:09	14704	TREX_T1	1	1	0	3.9	4	0.1	0	0	0	0	0	0	0	0
11/3/2024 10:10	44301	BEAV_T2	22	28	6	0.26	0.31	0.05	0	0	0	0	0	0	0	0
11/3/2024 10:10	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/3/2024 10:12	23901	EFMO_T2	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
11/3/2024 10:16	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
11/3/2024 10:16	63501	HEID_TBK1-2	2	2	0	0.45	0.65	0.2	0.33	0.36	0	0	0	0	0	0
11/3/2024 10:16	52402	GRPA_T2	3	5	2	0.93	0.62	-0.31	-0.97	-0.98	0	0	0	0	0	0
11/3/2024 10:16	40504	CRES_T1	1	1	0	0.6	0.8	0.2	-0.77	-0.78	0	0	0	0	0	0
11/3/2024 10:16	40501	CRES_T2	11	19	8	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
11/3/2024 10:16	40502	CRES_T2	33	65	32	0.36	0.42	0.06	-0.37	-0.41	0	0	0	0	0	0
11/3/2024 10:16	52403	GRPA_T2	125	159	34	0.37	0.37	0	0	0	0	0	0	0	0	0
11/3/2024 10:16	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/3/2024 10:17	45702	LIND_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
11/3/2024 10:17	63501	HEID_TBK1-2	2	2	0	0.45	0.65	0.2	0.33	0.36	0	0	0	0	0	0
11/3/2024 10:18	64203	KINZ_T1	1	5	4	0.2	0.34	0.14	0.06	0.08	0	0	0	0	0	0
11/3/2024 10:18	40502	CRES_T2	33	65	32	0.36	0.42	0.06	-0.37	-0.41	0	0	0	0	0	0
11/3/2024 10:18	40101	HUNT_T2	4	23	19	0.95	0.41	-0.54	-1.54	-0.96	0	0	0	0	0	0
11/3/2024 10:18	40501	CRES_T2	11	19	8	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
11/3/2024 10:18	64204	KINZ_T1	63	72	9	0.47	0.96	0.49	0	0	0	0	0	0	0	0
11/3/2024 10:18	64202	KINZ_T1	4	6	2	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
11/3/2024 10:18	63501	HEID_TBK1-2	2	2	0	0.45	0.65	0.2	0.66	0.72	0	0	0	0	0	0
11/3/2024 10:18	64201	KINZ_T1	2	9	7	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
11/3/2024 10:19	54201	PENN_T1	10	15	5	0.65	0.49	-0.16	0	0	0	0	0	0	0	0
11/3/2024 10:19	40502	CRES_T2	33	65	32	0.36	0.42	0.06	-0.37	-0.41	0	0	0	0	0	0
11/3/2024 10:19	54203	PENN_T1	22	31	9	0.9	0.74	-0.16	0.72	0.78	0	0	0	0	0	0
11/3/2024 10:19	40501	CRES_T2	11	19	8	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
11/3/2024 10:20	45701	LIND_T2	0	0	0	0	0	0	-1.77	-1.76	0	0	0	0	0	0
11/3/2024 10:20	40502	CRES_T2	33	65	32	0.36	0.42	0.06	-0.37	-0.41	0	0	0	0	0	0
11/3/2024 10:20	59402	RFLD_T2	1	3	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
11/3/2024 10:20	40501	CRES_T2	11	19	8	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
11/3/2024 10:20	63501	HEID_TBK1-2	2	2	0	0.45	0.65	0.2	0.33	0.36	0	0	0	0	0	0
11/3/2024 10:20	40504	CRES_T1	1	1	0	0.6	0.8	0.2	-0.77	-0.78	0	0	0	0	0	0
11/3/2024 10:20	15203	SFAR_T2	3	3	0	0.5	0.53	0.03	-1.35	-1.32	0	0	0	0	0	0
11/3/2024 10:21	54201	PENN_T1	10	15	5	0.65	0.49	-0.16	0	0	0	0	0	0	0	0
11/3/2024 10:21	54203	PENN_T1	22	31	9	0.9	0.74	-0.16	0.78	0.71	0	0	0	0	0	0
11/3/2024 10:21	58402	MORO_T1	0	0	0	0	0	0	0.03	0.02	1	1	0	900	900	0
11/3/2024 10:22	24202	PROV_T4	1	1	0	1.4	1.5	0.1	0	0	1	1	0	1200	1200	0
11/3/2024 10:22	14201	EALL_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
11/3/2024 10:23	58001	WCAR_T1	4	5	1	1.43	1.32	-0.11	0	0	0	0	0	0	0	0
11/3/2024 10:23	15203	SFAR_T2	3	3	0	0.5	0.53	0.03	-1.32	-1.32	0	0	0	0	0	0
11/3/2024 10:23	58003	WCAR_T1	1	2	1	1.4	0.65	-0.75	1.44	1.44	0	0	0	0	0	0
11/3/2024 10:23	54203	PENN_T1	22	31	9	0.9	0.74	-0.16	0	0	0	0	0	0	0	0
11/3/2024 10:23	54201	PENN_T1	10	15	5	0.65	0.49	-0.16	0	0	0	0	0	0	0	0
11/3/2024 10:23	29402	BELT_T1	3	4	1	2.93	2.38	-0.55	0	0	0	0	0	0	0	0
11/3/2024 10:29	29402	BELT_T1	3	4	1	2.93	2.38	-0.55	0	0	0	0	0	0	0	0
11/3/2024 10:29	54501	ENOL_T2	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
11/3/2024 10:29	45501	DERR_T2	2	2	0	0.25	0.3	0.05	0.25	0.27	1	1	0	600	600	0
11/3/2024 10:29	28403	HART_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
11/3/2024 10:29	54505	ENOL_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
11/3/2024 10:29	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/3/2024 10:30	45501	DERR_T2	1	2	1	0.4	0.3	-0.1	0.25	0.27	1	1	0	600	600	0
11/3/2024 10:31	52402	GRPA_T2	1	6	5	0.1	0.55	0.45	0	0	0	0	0	0	0	0
11/3/2024 10:31	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/3/2024 10:31	52403	GRPA_T2	87	208	121	0.35	0.38	0.03	-0.18	-0.19	0	0	0	0	0	0
11/3/2024 10:31	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
11/3/2024 10:33	58402	MORO_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/3/2024 10:33	58401	MORO_T1	0	1	1	0	0.4	0.4	-1.78	-1.82	2	2	0	1200	1200	0
11/3/2024 10:35	64101	REFR_T1	6	5	-1	0.22	0.24	0.02	0.16	0.28	0	0	0	0	0	0
11/3/2024 10:36	15603	NSTR_T2	0	1	1	0	0.1	0.1	-0.58	-0.56	0	0	0	0	0	0
11/3/2024 10:36	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
11/3/2024 10:36	15703	TANN_T2	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
11/3/2024 10:36	13303	ORVI_T1	0	3	3	0	0.53	0.53	0.52	0.51	0	0	0	0	0	0
11/3/2024 10:36	64101	REFR_T1	6	5	-1	0.22	0.24	0.02	0.21	0.09	0	0	0	0	0	0
11/3/2024 10:37	58001	WCAR_T1	4	5	1	1.33	1.32	-0.01	0	0	0	0	0	0	0	0
11/3/2024 10:37	64101	REFR_T1	6	5	-1	0.22	0.24	0.02	0.14	0.06	0	0	0	0	0	0
11/3/2024 10:37	58003	WCAR_T1	1	2	1	1.2	0.8	-0.4	0.72	0.69	0	0	0	0	0	0
11/3/2024 10:38	64101	REFR_T1	6	5	-1	0.22	0.24	0.02	0.14	0.06	0	0	0	0	0	0
11/3/2024 10:38	24902	WHHA_T1	1	3	2	0.4	0.2	-0.2	0.72	0.71	0	0	0	0	0	0
11/3/2024 10:38	54601	SUMM_T2	9	9	0	0.36	0.4	0.04	0	0	0	0	0	0	0	0
11/3/2024 10:38	24901	WHHA_T1	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
11/3/2024 10:38	54603	SUMM_T2	0	0	0	0	0	0	-0.53	-0.54	1	1	0	900	900	0
11/3/2024 10:40	15703	TANN_T2	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
11/3/2024 10:40	15702	TANN_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
11/3/2024 10:40	20403	ASHF_T2	0	2	2	0	0.3	0.3	0.11	0.1	0	0	0	0	0	0
11/3/2024 10:40	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/3/2024 10:43	20403	ASHF_T2	0	2	2	0	0.3	0.3	0.11	0.1	0	0	0	0	0	0
11/3/2024 10:43	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/3/2024 10:44	61302	EARL_T1	4	4	0	0.78	0.85	0.07	0	0	0	0	0	0	0	0
11/3/2024 10:44	61304	EARL_T1	3	3	0	0.23	0.33	0.1	0	0	0	0	0	0	0	0
11/3/2024 10:44	61303	EARL_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
11/3/2024 10:45	64302	LINC_T2	0	0	0	0	0	0	0.8	0.75	0	0	0	0	0	0
11/3/2024 10:45	64304	LINC_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/3/2024 10:46	53301	GRAT_T1	0	0	0	0	0	0	0	2	2	2	0	900	900	0
11/3/2024 10:47	64303	LINC_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/3/2024 10:47	64305	LINC_T1	2	2	0	0.65	0.75	0.1	-0.64	-0.67	0	0	0	0	0	0
11/3/2024 10:49	63601	LETO_T1	7	6	-1	0.43	0.53	0.1	-0.11	0.02	1	1	0	900	900	0
11/3/2024 10:51	52404	GRPA_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
11/3/2024 10:51	52402	GRPA_T2	5	6	1	0.62	0.63	0.01	0	0	0	0	0	0	0	0
11/3/2024 10:51	52403	GRPA_T2	154	248	94	0.37	0.42	0.05	0	0	0	0	0	0	0	0
11/3/2024 10:51	52401	GRPA_T2	0	2	2	0	0.2	0.2	-0.51	-0.54	0	0	0	0	0	0
11/3/2024 10:54	41902	REED_T1	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
11/3/2024 10:54	67402	WAKE_T2	0	0	0	0	0	0	-0.45	-0.42	1	1	0	600	600	0
11/3/2024 10:54	63601	LETO_T1	7	6	-1	0.43	0.53	0.1	0.02	-0.11	1	1	0	900	900	0
11/3/2024 10:54	67401	WAKE_T2	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/3/2024 10:56	57205	ROSS_T1	2	2	0	0.8	1	0.2	0.19	0.19	0	0	0	0	0	0
11/3/2024 10:56	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/3/2024 10:56	57201	ROSS_T1	3	3	0	0.27	0.3	0.03	0	0	0	0	0	0	0	0
11/3/2024 10:56	57203	ROSS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 10:56	14603	SWHI_T1	3	5	2	0.47	0.36	-0.11	0	0	0	0	0	0	0	0
11/3/2024 10:56	15703	TANN_T2	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
11/3/2024 10:56	15702	TANN_T2	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
11/3/2024 10:58	46004	BERW_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
11/3/2024 10:58	46002	BERW_T2	0	0	0	0	0	0	-1.52	-1.5	1	1	0	900	900	0
11/3/2024 10:59	22905	HARW_T1	2	12	10	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/3/2024 10:59	22903	HARW_T1	0	21	21	0	0.26	0.26	0	0	0	0	0	0	0	0
11/3/2024 10:59	22901	HARW_T1	3	15	12	0.83	1.08	0.25	-0.59	-0.7	1	1	0	1200	1200	0
11/3/2024 11:00	61304	EARL_T1	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/3/2024 11:00	61302	EARL_T1	2	4	2	1.2	0.98	-0.22	-0.54	-0.52	2	2	0	1800	1800	0
11/3/2024 11:04	13301	ORVI_T1	0	1	1	0	9.5	9.5	0	0	0	0	0	0	0	0
11/3/2024 11:04	58402	MORO_T1	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
11/3/2024 11:04	13303	ORVI_T1	3	3	0	0.53	0.23	-0.3	0.51	0.52	0	0	0	0	0	0
11/3/2024 11:04	58403	MORO_T1	1	1	0	0.4	0.2	-0.2	-0.93	-0.93	1	1	0	600	600	0
11/3/2024 11:05	58401	MORO_T1	1	1	0	0.4	0.2	-0.2	-0.93	-0.93	1	1	0	600	600	0
11/3/2024 11:05	58402	MORO_T1	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
11/3/2024 11:07	59202	THOM_T1	766	837	71	0.44	0.49	0.05	0	0	0	0	0	0	0	0
11/3/2024 11:07	64101	REFR_T1	4	7	3	0.23	0.36	0.13	0.03	0.08	0	0	0	0	0	0
11/3/2024 11:07	59201	THOM_T1	89	91	2	0.48	0.51	0.03	0	0	0	0	0	0	0	0
11/3/2024 11:08	24902	WHHA_T1	3	2	-1	0.23	0	-0.23	0.72	0.71	0	0	0	0	0	0
11/3/2024 11:08	59202	THOM_T1	766	837	71	0.44	0.49	0.05	0	0	0	0	0	0	0	0
11/3/2024 11:08	59201	THOM_T1	89	91	2	0.48	0.51	0.03	0	0	0	0	0	0	0	0
11/3/2024 11:08	24901	WHHA_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
11/3/2024 11:10	59201	THOM_T1	89	91	2	0.48	0.51	0.03	0	0	0	0	0	0	0	0
11/3/2024 11:10	67402	WAKE_T2	0	0	0	0	0	0	-0.42	-0.07	1	1	0	600	600	0
11/3/2024 11:10	10801	CHHI_T1	8	7	-1	0.51	0.64	0.13	-1.65	-1.69	2	2	0	1500	1500	0
11/3/2024 11:10	59202	THOM_T1	766	837	71	0.44	0.49	0.05	0	0	0	0	0	0	0	0
11/3/2024 11:10	67401	WAKE_T2	2	3	1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
11/3/2024 11:11	24902	WHHA_T1	3	2	-1	0.23	0	-0.23	0.72	0.71	0	0	0	0	0	0
11/3/2024 11:11	24901	WHHA_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
11/3/2024 11:13	64101	REFR_T1	4	7	3	0.23	0.36	0.13	0.03	0.08	0	0	0	0	0	0
11/3/2024 11:20	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/3/2024 11:20	66505	SMAN_T2	1	2	1	0.2	0.25	0.05	-0.22	-0.12	1	1	0	900	900	0
11/3/2024 11:20	66504	SMAN_T2	2	2	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
11/3/2024 11:20	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/3/2024 11:21	57401	SPAN_T1	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
11/3/2024 11:21	57403	SPAN_T1	1	3	2	0.1	0.3	0.2	0.05	0.05	0	0	0	0	0	0
11/3/2024 11:22	66504	SMAN_T2	2	2	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
11/3/2024 11:22	54206	PENN_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/3/2024 11:22	66505	SMAN_T2	1	2	1	0.2	0.25	0.05	-0.12	0	1	1	0	900	900	0
11/3/2024 11:22	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/3/2024 11:22	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/3/2024 11:22	54202	PENN_T2	4	4	0	0.45	0.65	0.2	0	0	0	0	0	0	0	0
11/3/2024 11:22	67502	WEWI_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
11/3/2024 11:22	67503	WEWI_T2	1	1	0	6.5	7.2	0.7	-0.49	-0.51	0	0	0	0	0	0
11/3/2024 11:23	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/3/2024 11:23	66505	SMAN_T2	1	2	1	0.2	0.25	0.05	-0.12	0	1	1	0	900	900	0
11/3/2024 11:23	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/3/2024 11:23	54601	SUMM_T2	5	9	4	0.64	0.51	-0.13	-2.99	-3.01	2	2	0	2100	2100	0
11/3/2024 11:23	67502	WEWI_T2	1	1	0	0.8	0.4	-0.4	-1.43	-1.45	1	1	0	900	900	0
11/3/2024 11:23	66504	SMAN_T2	2	2	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
11/3/2024 11:23	67503	WEWI_T2	1	1	0	6.5	7.2	0.7	0	0	0	0	0	0	0	0
11/3/2024 11:27	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/3/2024 11:27	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/3/2024 11:27	66505	SMAN_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
11/3/2024 11:27	66504	SMAN_T2	2	2	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
11/3/2024 11:29	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/3/2024 11:29	20603	GRWO_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
11/3/2024 11:29	63801	HEMP_T1	3	4	1	0.1	0.3	0.2	-0.78	-0.88	0	0	0	0	0	0
11/3/2024 11:29	63804	HEMP_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
11/3/2024 11:30	10801	CHHI_T1	7	7	0	0.64	0.61	-0.03	-1.69	-1.66	2	2	0	1500	1500	0
11/3/2024 11:33	61001	DONV_T1	2	1	-1	1	0.8	-0.2	0	0	0	0	0	0	0	0
11/3/2024 11:33	40601	PIGR_T1	2	6	4	0.1	0.18	0.08	0	0	0	0	0	0	0	0
11/3/2024 11:33	40602	PIGR_T1	2	2	0	1.45	1.45	0	0	0	0	0	0	0	0	0
11/3/2024 11:33	60801	BUCK_T1	3	3	0	0.4	0.33	-0.07	-0.2	-0.19	0	0	0	0	0	0
11/3/2024 11:33	60803	BUCK_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
11/3/2024 11:36	13303	ORVI_T1	3	4	1	0.23	0.35	0.12	0.51	0.51	0	0	0	0	0	0
11/3/2024 11:36	13301	ORVI_T1	1	0	-1	9.5	0	-9.5	0	0	0	0	0	0	0	0
11/3/2024 11:36	15203	SFAR_T2	4	4	0	0.6	0.73	0.13	-1.32	-1.32	0	0	0	0	0	0
11/3/2024 11:38	59402	RFLD_T2	3	3	0	0.23	0.4	0.17	-2.64	-2.64	3	3	0	1350	1350	0
11/3/2024 11:40	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 11:40	60104	COCA_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/3/2024 11:42	60101	COCA_T1	3	5	2	0.53	0.5	-0.03	0.55	0.49	0	0	0	0	0	0
11/3/2024 11:42	14601	SWHI_T1	0	0	0	0	0	0	-0.87	-0.88	0	0	0	0	0	0
11/3/2024 11:42	14603	SWHI_T1	5	4	-1	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
11/3/2024 11:43	61302	EARL_T1	4	4	0	0.93	0.95	0.02	-0.5	-0.53	2	2	0	1800	1800	0
11/3/2024 11:43	60101	COCA_T1	3	5	2	0.53	0.5	-0.03	0.82	0.73	0	0	0	0	0	0
11/3/2024 11:43	61304	EARL_T1	2	4	2	0.35	0.35	0	0	0	0	0	0	0	0	0
11/3/2024 11:45	46801	HEPB_T2	0	0	0	0	0	0	0.51	0.48	0	0	0	0	0	0
11/3/2024 11:49	64303	LINC_T1	1	1	0	0.1	0.4	0.3	-0.23	-0.23	0	0	0	0	0	0
11/3/2024 11:49	64305	LINC_T1	2	7	5	0.7	0.41	-0.29	0	0	0	0	0	0	0	0
11/3/2024 11:49	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 11:50	65503	MOJO_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
11/3/2024 11:50	52402	GRPA_T2	5	7	2	0.62	0.66	0.04	-0.87	-0.91	0	0	0	0	0	0
11/3/2024 11:50	52404	GRPA_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/3/2024 11:50	52401	GRPA_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/3/2024 11:50	52403	GRPA_T2	97	111	14	0.36	0.35	-0.01	0	0	0	0	0	0	0	0
11/3/2024 11:52	66501	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/3/2024 11:52	66502	SMAN_T2	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
11/3/2024 11:52	66504	SMAN_T2	2	2	0	0.5	0.75	0.25	0	0	0	0	0	0	0	0
11/3/2024 11:56	61701	ELIZ_T1	2	2	0	3.55	3.35	-0.2	0	0	0	0	0	0	0	0
11/3/2024 11:56	61703	ELIZ_T1	12	8	-4	0.36	0.39	0.03	-1.75	-1.89	1	1	0	900	900	0
11/3/2024 11:57	46004	BERW_T2	1	1	0	0.7	0	-0.7	-0.87	-0.87	0	0	0	0	0	0
11/3/2024 11:58	61701	ELIZ_T1	2	2	0	3.55	3.35	-0.2	0	0	0	0	0	0	0	0
11/3/2024 11:58	61703	ELIZ_T1	12	8	-4	0.36	0.39	0.03	-1.75	-1.89	1	1	0	900	900	0
11/3/2024 11:59	61703	ELIZ_T1	12	8	-4	0.36	0.39	0.03	0	0	0	0	0	0	0	0
11/3/2024 11:59	61701	ELIZ_T1	2	2	0	3.55	3.35	-0.2	0.59	0.57	0	0	0	0	0	0
11/3/2024 12:00	61701	ELIZ_T1	2	2	0	3.25	3.25	0	0	0	0	0	0	0	0	0
11/3/2024 12:00	61703	ELIZ_T1	5	9	4	0.42	0.33	-0.09	-1.75	-1.89	1	1	0	900	900	0
11/3/2024 12:01	61703	ELIZ_T1	5	9	4	0.42	0.33	-0.09	-1.75	-1.89	1	1	0	900	900	0
11/3/2024 12:01	61701	ELIZ_T1	2	2	0	3.25	3.25	0	0	0	0	0	0	0	0	0
11/3/2024 12:06	60803	BUCK_T1	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/3/2024 12:06	60801	BUCK_T1	3	3	0	0.27	0.1	-0.17	-0.2	-0.21	0	0	0	0	0	0
11/3/2024 12:07	42601	TUSC_T1	1	0	-1	0.1	0	-0.1	-0.62	-0.59	2	2	0	1800	1800	0
11/3/2024 12:08	58003	WCAR_T1	3	6	3	0.7	0.42	-0.28	0.69	0.66	0	0	0	0	0	0
11/3/2024 12:08	58001	WCAR_T1	5	5	0	1.38	1.36	-0.02	0	0	0	0	0	0	0	0
11/3/2024 12:09	14603	SWHI_T1	4	6	2	0.33	0.43	0.1	0	0	0	0	0	0	0	0
11/3/2024 12:10	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	-0.93	-0.92	0	0	0	0	0	0
11/3/2024 12:10	42601	TUSC_T1	1	0	-1	0.1	0	-0.1	-0.62	-0.59	2	2	0	1800	1800	0
11/3/2024 12:11	14603	SWHI_T1	4	6	2	0.33	0.43	0.1	0	0	0	0	0	0	0	0
11/3/2024 12:11	42601	TUSC_T1	1	0	-1	0.1	0	-0.1	-0.62	-0.59	2	2	0	1800	1800	0
11/3/2024 12:11	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	-0.93	-0.92	0	0	0	0	0	0
11/3/2024 12:13	14603	SWHI_T1	4	6	2	0.33	0.43	0.1	0	0	0	0	0	0	0	0
11/3/2024 12:25	54602	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/3/2024 12:25	54601	SUMM_T2	10	11	1	0.44	0.41	-0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/3/2024 12:25	54603	SUMM_T2	0	0	0	0	0	0	-0.53	-0.55	1	1	0	900	900	0
11/3/2024 12:26	44802	EDAN_T2	0	0	0	0	0	0	-0.86	-0.89	0	0	0	0	0	0
11/3/2024 12:26	44801	EDAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/3/2024 12:27	44802	EDAN_T2	0	0	0	0	0	0	-0.86	-0.89	0	0	0	0	0	0
11/3/2024 12:27	44801	EDAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/3/2024 12:28	44802	EDAN_T2	0	0	0	0	0	0	-1.72	-1.77	0	0	0	0	0	0
11/3/2024 12:28	40201	BEGA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/3/2024 12:28	44801	EDAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/3/2024 12:30	61304	EARL_T1	3	3	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
11/3/2024 12:30	44502	HAMI_T2	1	2	1	2.5	1.3	-1.2	-0.88	-0.93	0	0	0	0	0	0
11/3/2024 12:30	61302	EARL_T1	4	4	0	0.6	0.9	0.3	-0.36	-0.51	2	2	0	1800	1800	0
11/3/2024 12:31	44802	EDAN_T2	0	0	0	0	0	0	-1.72	-1.77	0	0	0	0	0	0
11/3/2024 12:31	44801	EDAN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/3/2024 12:32	44802	EDAN_T2	0	0	0	0	0	0	-0.86	-0.89	0	0	0	0	0	0
11/3/2024 12:32	44801	EDAN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/3/2024 12:34	67501	WEWI_T1	1	1	0	0.1	0.3	0.2	-2.44	-2.66	2	2	0	1200	1200	0
11/3/2024 12:35	66504	SMAN_T2	2	1	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
11/3/2024 12:35	66501	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/3/2024 12:36	66504	SMAN_T2	2	1	-1	0.4	0.4	0	-0.71	-0.67	0	0	0	0	0	0
11/3/2024 12:36	66501	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/3/2024 12:37	66501	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/3/2024 12:37	66504	SMAN_T2	2	1	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
11/3/2024 12:38	66501	SMAN_T2	1	0	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/3/2024 12:38	66504	SMAN_T2	2	1	-1	0.4	0.4	0	-0.71	-0.67	0	0	0	0	0	0
11/3/2024 12:39	57205	ROSS_T1	2	2	0	0.95	1.05	0.1	0	0	0	0	0	0	0	0
11/3/2024 12:39	57201	ROSS_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/3/2024 12:39	57203	ROSS_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
11/3/2024 12:40	66501	SMAN_T2	1	0	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/3/2024 12:40	66504	SMAN_T2	2	1	-1	0.4	0.4	0	-1.42	-1.34	0	0	0	0	0	0
11/3/2024 12:45	17802	GILB_T1	2	4	2	0.45	0.8	0.35	-0.03	-0.05	0	0	0	0	0	0
11/3/2024 12:47	64303	LINC_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/3/2024 12:47	64305	LINC_T1	5	3	-2	0.46	0.57	0.11	-0.72	-0.69	0	0	0	0	0	0
11/3/2024 12:49	64802	MONE_T2	0	1	1	0	1.8	1.8	-0.01	-0.01	0	0	0	0	0	0
11/3/2024 12:50	64802	MONE_T2	0	1	1	0	1.8	1.8	-0.01	-0.01	0	0	0	0	0	0
11/3/2024 12:56	66504	SMAN_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/3/2024 12:56	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/3/2024 13:01	61803	EELI_T2	0	0	0	0	0	0	0.85	0.84	0	0	0	0	0	0
11/3/2024 13:01	61801	EELI_T2	5	6	1	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
11/3/2024 13:07	14801	TREI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/3/2024 13:07	44904	SCOT_T1	1	0	-1	0.1	0	-0.1	0.45	0.52	0	0	0	0	0	0
11/3/2024 13:07	14802	TREI_T2	1	1	0	0.2	0.4	0.2	0.35	0.35	0	0	0	0	0	0
11/3/2024 13:08	14802	TREI_T2	1	1	0	0.2	0.4	0.2	0.35	0.35	0	0	0	0	0	0
11/3/2024 13:08	44901	SCOT_T2	245	258	13	0.43	0.35	-0.08	0	0	0	0	0	0	0	0
11/3/2024 13:08	44902	SCOT_T2	4	3	-1	0.35	0.27	-0.08	-1.84	-1.88	0	0	0	0	0	0
11/3/2024 13:08	14801	TREI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/3/2024 13:09	14802	TREI_T2	1	1	0	0.2	0.4	0.2	0.35	0.35	0	0	0	0	0	0
11/3/2024 13:09	14801	TREI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/3/2024 13:11	43402	BENT_T1	2	2	0	0.5	0.5	0	-0.92	-0.93	1	1	0	900	900	0
11/3/2024 13:12	44801	EDAN_T2	1	2	1	0.4	0.3	-0.1	-0.54	-0.53	0	0	0	0	0	0
11/3/2024 13:13	43402	BENT_T1	2	2	0	0.5	0.5	0	-0.92	-0.93	1	1	0	900	900	0
11/3/2024 13:15	21206	ECAR_T2	1	1	0	8.1	8.1	0	-0.11	-0.15	0	0	0	0	0	0
11/3/2024 13:15	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 13:17	44801	EDAN_T2	2	2	0	0.3	0.25	-0.05	-0.54	-0.53	0	0	0	0	0	0
11/3/2024 13:19	44201	POIN_T1	27	26	-1	0.11	0.13	0.02	-2.08	-2.05	1	1	0	1200	1200	0
11/3/2024 13:20	44201	POIN_T1	27	26	-1	0.11	0.13	0.02	-6.25	-6.16	3	3	0	3600	3600	0
11/3/2024 13:21	58402	MORO_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/3/2024 13:21	58401	MORO_T1	0	0	0	0	0	0	-0.92	-0.89	1	1	0	600	600	0
11/3/2024 13:22	58401	MORO_T1	0	0	0	0	0	0	-0.92	-0.89	1	1	0	600	600	0
11/3/2024 13:22	44201	POIN_T1	27	26	-1	0.11	0.13	0.02	-6.16	-6.45	3	3	0	3600	3600	0
11/3/2024 13:22	58402	MORO_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/3/2024 13:22	44801	EDAN_T2	2	2	0	0.3	0.25	-0.05	-0.53	-0.53	0	0	0	0	0	0
11/3/2024 13:22	14502	SCHO_T1	3	4	1	0.6	0.5	-0.1	0.3	0.29	0	0	0	0	0	0
11/3/2024 13:23	44801	EDAN_T2	2	2	0	0.3	0.25	-0.05	-0.53	-0.53	0	0	0	0	0	0
11/3/2024 13:24	14502	SCHO_T1	3	4	1	0.6	0.5	-0.1	0.6	0.58	0	0	0	0	0	0
11/3/2024 13:25	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 13:26	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 13:30	44901	SCOT_T2	241	136	-105	0.35	0.31	-0.04	-0.51	-0.42	0	0	0	0	0	0
11/3/2024 13:30	44902	SCOT_T2	3	2	-1	0.27	0.3	0.03	0	0	0	0	0	0	0	0
11/3/2024 13:36	58402	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/3/2024 13:36	58401	MORO_T1	0	0	0	0	0	0	-0.89	-0.92	1	1	0	600	600	0
11/3/2024 13:37	58401	MORO_T1	0	0	0	0	0	0	-0.89	-0.92	1	1	0	600	600	0
11/3/2024 13:37	58402	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/3/2024 13:40	24901	WHHA_T1	1	1	0	1.2	1.5	0.3	-0.83	-0.81	0	0	0	0	0	0
11/3/2024 13:41	24901	WHHA_T1	1	1	0	1.2	1.5	0.3	-0.83	-0.81	0	0	0	0	0	0
11/3/2024 13:45	64305	LINC_T1	2	1	-1	0.45	0.6	0.15	-0.75	-0.7	0	0	0	0	0	0
11/3/2024 13:48	44505	HAMI_T2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
11/3/2024 13:48	44502	HAMI_T2	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0	0
11/3/2024 13:51	44901	SCOT_T2	121	205	84	0.31	0.28	-0.03	-0.42	-0.51	0	0	0	0	0	0
11/3/2024 13:51	44902	SCOT_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/3/2024 13:54	44301	BEAV_T2	21	18	-3	0.27	0.22	-0.05	-1.02	-1.02	1	1	0	600	600	0
11/3/2024 13:55	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 13:55	14603	SWHI_T1	2	2	0	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
11/3/2024 13:55	14602	SWHI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/3/2024 13:56	44902	SCOT_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/3/2024 13:56	14602	SWHI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/3/2024 13:56	14603	SWHI_T1	2	2	0	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
11/3/2024 13:56	14601	SWHI_T1	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
11/3/2024 13:56	44901	SCOT_T2	121	205	84	0.31	0.28	-0.03	-0.51	-0.52	0	0	0	0	0	0
11/3/2024 13:57	14602	SWHI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/3/2024 13:57	14601	SWHI_T1	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
11/3/2024 13:57	14603	SWHI_T1	2	2	0	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
11/3/2024 14:06	43202	MVIL_T2	59	52	-7	0.39	0.27	-0.12	-0.77	-0.75	0	0	0	0	0	0
11/3/2024 14:23	43202	MVIL_T2	36	56	20	0.18	0.38	0.2	-0.76	-0.77	0	0	0	0	0	0
11/3/2024 14:41	62102	ELAN_T1	1	1	0	0.4	0.1	-0.3	0.51	0.54	0	0	0	0	0	0
11/3/2024 14:43	54502	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/3/2024 14:43	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/3/2024 14:43	54504	ENOL_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
11/3/2024 14:48	64204	KINZ_T1	49	22	-27	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
11/3/2024 14:48	64201	KINZ_T1	1	1	0	1	0.8	-0.2	-0.37	-0.36	1	1	0	900	900	0
11/3/2024 14:49	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 14:50	65502	MOJO_T2	0	0	0	0	0	0	-0.98	-1.08	0	0	0	0	0	0
11/3/2024 14:51	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 14:51	44202	POIN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/3/2024 14:52	44202	POIN_T2	1	0	-1	0.2	0	-0.2	-3.11	-3.11	3	3	0	3600	3600	0
11/3/2024 14:53	44901	SCOT_T2	137	88	-49	0.26	0.22	-0.04	-0.51	-0.57	0	0	0	0	0	0
11/3/2024 14:53	44902	SCOT_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/3/2024 14:56	67402	WAKE_T2	0	0	0	0	0	0	-0.44	-0.47	1	1	0	600	600	0
11/3/2024 15:09	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 15:10	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 15:17	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
11/3/2024 15:21	57201	ROSS_T1	0	0	0	0	0	0	-1.11	-1.08	0	0	0	0	0	0
11/3/2024 15:26	45501	DERR_T2	1	1	0	0.5	0.5	0	0.2	0.19	1	1	0	600	600	0
11/3/2024 15:34	43202	MVIL_T2	60	47	-13	0.38	0.22	-0.16	-1.56	-1.56	0	0	0	0	0	0
11/3/2024 15:37	58401	MORO_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	600	600	0
11/3/2024 15:38	58401	MORO_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	600	600	0
11/3/2024 15:44	45501	DERR_T2	1	1	0	0.5	0.4	-0.1	0.19	0.18	1	1	0	600	600	0
11/3/2024 15:47	40901	JESH_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
11/3/2024 15:47	40902	JESH_T1	0	0	0	0	0	0	-3.02	-2.94	2	2	0	1200	1200	0
11/3/2024 15:48	43202	MVIL_T2	47	13	-34	0.22	0.12	-0.1	-0.78	-0.77	0	0	0	0	0	0
11/3/2024 15:52	43202	MVIL_T2	47	13	-34	0.22	0.12	-0.1	-0.77	-0.79	0	0	0	0	0	0
11/3/2024 16:12	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/3/2024 16:12	52403	GRPA_T2	1	3	2	0.2	0.3	0.1	-0.17	-0.19	0	0	0	0	0	0
11/3/2024 16:12	52402	GRPA_T2	3	3	0	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
11/3/2024 16:26	67603	WARW_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
11/3/2024 16:26	67605	WARW_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
11/3/2024 16:26	16101	BING_T2	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
11/3/2024 16:26	16102	BING_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
11/3/2024 16:33	26703	HEML_T1	0	0	0	0	0	0	-0.93	-0.92	1	1	0	600	600	0
11/3/2024 16:35	28102	TWLA_T2	3	3	0	0.33	0.3	-0.03	0.2	0.2	0	0	0	0	0	0
11/3/2024 17:01	17802	GILB_T1	0	0	0	0	0	0	-0.02	0.01	0	0	0	0	0	0
11/3/2024 17:26	67603	WARW_T1	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
11/3/2024 17:26	67605	WARW_T1	1	2	1	1.2	1.4	0.2	0	0	0	0	0	0	0	0
11/3/2024 17:27	67603	WARW_T1	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
11/3/2024 17:27	67605	WARW_T1	1	2	1	1.2	1.4	0.2	0	0	0	0	0	0	0	0
11/3/2024 17:30	54502	ENOL_T2	1	1	0	0.2	0.7	0.5	-2.01	-1.99	1	1	0	600	600	0
11/3/2024 17:30	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/3/2024 18:18	44901	SCOT_T2	2	0	-2	0.1	0	-0.1	-0.7	-0.61	0	0	0	0	0	0
11/3/2024 18:25	67501	WEWI_T1	0	0	0	0	0	0	-1.36	-1.32	1	1	0	600	600	0
11/3/2024 19:52	26703	HEML_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	600	600	0
11/3/2024 19:53	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.33	0	0	0	0	0	0
11/3/2024 19:55	15601	NSTR_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/3/2024 19:55	16101	BING_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
11/3/2024 19:55	15603	NSTR_T2	0	0	0	0	0	0	-0.61	-0.59	0	0	0	0	0	0
11/3/2024 19:55	16102	BING_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
11/3/2024 19:55	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 19:56	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
11/3/2024 19:56	29402	BELT_T1	1	1	0	6.6	6.9	0.3	0	0	0	0	0	0	0	0
11/3/2024 19:57	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.94	1	1	0	900	900	0
11/3/2024 19:57	61701	ELIZ_T1	1	1	0	5.6	5.7	0.1	-0.06	-0.1	0	0	0	0	0	0
11/3/2024 19:58	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
11/3/2024 19:58	24902	WHHA_T1	1	2	1	0.6	0	-0.6	0.74	0.73	0	0	0	0	0	0
11/3/2024 19:58	64302	LINC_T2	0	0	0	0	0	0	0.65	0.72	0	0	0	0	0	0
11/3/2024 19:58	46002	BERW_T2	0	0	0	0	0	0	-1.56	-1.59	1	1	0	900	900	0
11/3/2024 19:58	44901	SCOT_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
11/3/2024 19:58	15703	TANN_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
11/3/2024 19:59	14502	SCHO_T1	1	1	0	0.8	0.4	-0.4	0.26	0.28	0	0	0	0	0	0
11/3/2024 19:59	17802	GILB_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
11/3/2024 20:00	13303	ORVI_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
11/3/2024 20:01	29402	BELT_T1	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0	0
11/3/2024 20:01	17802	GILB_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
11/3/2024 20:01	24902	WHHA_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/3/2024 20:01	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:01	24901	WHHA_T1	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/3/2024 20:01	44201	POIN_T1	0	0	0	0	0	0	-4.17	-4.17	2	2	0	2400	2400	0
11/3/2024 20:03	67503	WEWI_T2	1	1	0	6.1	6.1	0	-0.37	-0.35	0	0	0	0	0	0
11/3/2024 20:03	24902	WHHA_T1	1	1	0	0.5	0	-0.5	0.74	0.73	0	0	0	0	0	0
11/3/2024 20:04	43202	MVIL_T2	0	17	17	0	0.18	0.18	-0.69	-0.62	0	0	0	0	0	0
11/3/2024 20:04	14802	TREI_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
11/3/2024 20:04	15703	TANN_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
11/3/2024 20:04	15702	TANN_T2	0	0	0	0	0	0	-0.88	-0.86	0	0	0	0	0	0
11/3/2024 20:05	22901	HARW_T1	0	0	0	0	0	0	-1.93	-2.01	1	1	0	1200	1200	0
11/3/2024 20:05	22903	HARW_T1	8	0	-8	0.19	0	-0.19	0	0	0	0	0	0	0	0
11/3/2024 20:05	42601	TUSC_T1	0	0	0	0	0	0	-0.59	-0.6	1	1	0	1200	1200	0
11/3/2024 20:05	24202	PROV_T4	1	1	0	3.7	3.7	0	0	0	1	1	0	1200	1200	0
11/3/2024 20:06	40504	CRES_T1	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
11/3/2024 20:06	21206	ECAR_T2	1	1	0	7.5	7.9	0.4	0.02	0.02	0	0	0	0	0	0
11/3/2024 20:06	66505	SMAN_T2	3	3	0	1.07	1.53	0.46	-0.62	-0.55	1	1	0	900	900	0
11/3/2024 20:06	45702	LIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/3/2024 20:06	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:06	14802	TREI_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
11/3/2024 20:06	44801	EDAN_T2	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
11/3/2024 20:06	66504	SMAN_T2	0	0	0	0	0	0	-1.19	-1.26	0	0	0	0	0	0
11/3/2024 20:06	45701	LIND_T2	0	0	0	0	0	0	-1.76	-1.78	0	0	0	0	0	0
11/3/2024 20:06	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.94	1	1	0	900	900	0
11/3/2024 20:06	45501	DERR_T2	0	0	0	0	0	0	0.08	0.08	1	1	0	600	600	0
11/3/2024 20:06	44802	EDAN_T2	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
11/3/2024 20:06	44201	POIN_T1	0	0	0	0	0	0	-2.09	-2.09	1	1	0	1200	1200	0
11/3/2024 20:07	44202	POIN_T2	0	0	0	0	0	0	-1.02	-1.04	1	1	0	1200	1200	0
11/3/2024 20:07	40502	CRES_T2	7	20	13	0.21	0.27	0.06	-0.72	-0.8	0	0	0	0	0	0
11/3/2024 20:07	44802	EDAN_T2	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
11/3/2024 20:07	44904	SCOT_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
11/3/2024 20:07	63501	HEID_TBK1-2	15	20	5	0.19	0.2	0.01	0.35	0.34	0	0	0	0	0	0
11/3/2024 20:07	40501	CRES_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
11/3/2024 20:07	24902	WHHA_T1	1	1	0	0.5	0	-0.5	0.73	0.72	0	0	0	0	0	0
11/3/2024 20:07	14201	EALL_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
11/3/2024 20:07	44801	EDAN_T2	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
11/3/2024 20:08	54203	PENN_T1	111	215	104	0.37	0.31	-0.06	0	0	0	0	0	0	0	0
11/3/2024 20:08	14704	TREX_T1	1	1	0	4.4	4.4	0	0	0	0	0	0	0	0	0
11/3/2024 20:08	44902	SCOT_T2	0	0	0	0	0	0	-0.91	-0.96	0	0	0	0	0	0
11/3/2024 20:08	24902	WHHA_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/3/2024 20:08	54205	PENN_T1	57	76	19	0.25	0.32	0.07	0	0	0	0	0	0	0	0
11/3/2024 20:08	24901	WHHA_T1	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
11/3/2024 20:08	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:08	54506	ENOL_T2	0	0	0	0	0	0	0.49	0.41	1	0	-1	600	0	-600
11/3/2024 20:08	14705	TREX_T1	0	1	1	0	0	0	-0.37	-0.36	0	0	0	0	0	0
11/3/2024 20:08	44502	HAMI_T2	1	1	0	2.8	3.1	0.3	-0.93	-0.91	0	0	0	0	0	0
11/3/2024 20:08	44802	EDAN_T2	0	0	0	0	0	0	-2	-2	0	0	0	0	0	0
11/3/2024 20:08	44801	EDAN_T2	1	1	0	7.6	7.7	0.1	0	0	0	0	0	0	0	0
11/3/2024 20:08	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
11/3/2024 20:08	66505	SMAN_T2	3	3	0	1.07	1.53	0.46	0	0	0	0	0	0	0	0
11/3/2024 20:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:08	54201	PENN_T1	61	99	38	0.33	0.33	0	0	0	0	0	0	0	0	0
11/3/2024 20:08	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:08	54502	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
11/3/2024 20:09	54205	PENN_T1	57	76	19	0.25	0.32	0.07	0	0	0	0	0	0	0	0
11/3/2024 20:09	45501	DERR_T2	0	0	0	0	0	0	0.08	0.08	1	1	0	600	600	0
11/3/2024 20:09	54201	PENN_T1	61	99	38	0.33	0.33	0	0	0	0	0	0	0	0	0
11/3/2024 20:09	40902	JESH_T1	0	0	0	0	0	0	-2.97	-2.94	2	2	0	1200	1200	0
11/3/2024 20:09	44201	POIN_T1	0	0	0	0	0	0	-2.09	-2.08	1	1	0	1200	1200	0
11/3/2024 20:09	43202	MVIL_T2	0	17	17	0	0.18	0.18	-1.24	-1.38	0	0	0	0	0	0
11/3/2024 20:09	42601	TUSC_T1	0	0	0	0	0	0	-0.6	-0.63	1	1	0	1200	1200	0
11/3/2024 20:09	40901	JESH_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
11/3/2024 20:09	54203	PENN_T1	111	215	104	0.37	0.31	-0.06	0.69	0.69	0	0	0	0	0	0
11/3/2024 20:10	45702	LIND_T2	0	1	1	0	0.1	0.1	-0.56	-0.57	0	0	0	0	0	0
11/3/2024 20:10	59402	RFLD_T2	0	0	0	0	0	0	-0.9	-0.9	1	1	0	450	450	0
11/3/2024 20:10	45501	DERR_T2	0	0	0	0	0	0	0.08	0.08	1	1	0	600	600	0
11/3/2024 20:10	15203	SFAR_T2	0	0	0	0	0	0	-1.33	-1.34	0	0	0	0	0	0
11/3/2024 20:10	14601	SWHI_T1	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
11/3/2024 20:10	13303	ORVI_T1	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
11/3/2024 20:10	20403	ASHF_T2	0	0	0	0	0	0	0.26	0.21	0	0	0	0	0	0
11/3/2024 20:10	63601	LETO_T1	5	6	1	0.82	0.73	-0.09	-0.01	-0.06	1	1	0	900	900	0
11/3/2024 20:10	59202	THOM_T1	35	71	36	0.21	0.21	0	0	0	0	0	0	0	0	0
11/3/2024 20:10	59201	THOM_T1	14	17	3	0.29	0.32	0.03	0	0	0	0	0	0	0	0
11/3/2024 20:11	63501	HEID_TBK1-2	15	20	5	0.19	0.2	0.01	0.35	0.34	0	0	0	0	0	0
11/3/2024 20:11	44502	HAMI_T2	1	1	0	2.8	3.1	0.3	0	0	0	0	0	0	0	0
11/3/2024 20:11	40501	CRES_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
11/3/2024 20:11	44202	POIN_T2	0	0	0	0	0	0	-1.02	-1.04	1	1	0	1200	1200	0
11/3/2024 20:11	44801	EDAN_T2	1	1	0	7.6	7.7	0.1	-0.51	-0.51	0	0	0	0	0	0
11/3/2024 20:11	60101	COCA_T1	0	0	0	0	0	0	0.18	0.24	0	0	0	0	0	0
11/3/2024 20:11	58001	WCAR_T1	12	19	7	0.57	0.57	0	0	0	0	0	0	0	0	0
11/3/2024 20:11	59202	THOM_T1	35	71	36	0.21	0.21	0	0	0	0	0	0	0	0	0
11/3/2024 20:11	64305	LINC_T1	0	0	0	0	0	0	-0.73	-0.78	0	0	0	0	0	0
11/3/2024 20:11	67605	WARW_T1	3	3	0	0.83	1.13	0.3	0	0	0	0	0	0	0	0
11/3/2024 20:11	40502	CRES_T2	7	20	13	0.21	0.27	0.06	-0.36	-0.4	0	0	0	0	0	0
11/3/2024 20:11	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
11/3/2024 20:11	59201	THOM_T1	14	17	3	0.29	0.32	0.03	0	0	0	0	0	0	0	0
11/3/2024 20:11	44505	HAMI_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
11/3/2024 20:11	67603	WARW_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
11/3/2024 20:11	54502	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
11/3/2024 20:11	10801	CHHI_T1	0	34	34	0	0.12	0.12	-2.24	-2.26	3	3	0	2100	2100	0
11/3/2024 20:11	15203	SFAR_T2	0	0	0	0	0	0	-1.33	-1.34	0	0	0	0	0	0
11/3/2024 20:11	58003	WCAR_T1	11	19	8	0.35	0.23	-0.12	1.38	1.4	0	0	0	0	0	0
11/3/2024 20:11	54501	ENOL_T2	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
11/3/2024 20:12	60101	COCA_T1	0	0	0	0	0	0	0.18	0.24	0	0	0	0	0	0
11/3/2024 20:12	44801	EDAN_T2	1	1	0	7.6	7.7	0.1	-0.51	-0.51	0	0	0	0	0	0
11/3/2024 20:12	43202	MVIL_T2	0	17	17	0	0.18	0.18	-0.62	-0.69	0	0	0	0	0	0
11/3/2024 20:12	57201	ROSS_T1	23	70	47	0.17	0.21	0.04	0	0	0	0	0	0	0	0
11/3/2024 20:12	67503	WEWI_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
11/3/2024 20:12	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
11/3/2024 20:12	57203	ROSS_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
11/3/2024 20:12	67502	WEWI_T2	0	0	0	0	0	0	-1.44	-1.42	1	1	0	900	900	0
11/3/2024 20:13	54601	SUMM_T2	11	11	0	0.48	0.65	0.17	-2.96	-3.01	2	2	0	2100	2100	0
11/3/2024 20:13	54205	PENN_T1	57	76	19	0.25	0.32	0.07	0	0	0	0	0	0	0	0
11/3/2024 20:13	54502	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
11/3/2024 20:13	46004	BERW_T2	0	1	1	0	0	0	-0.83	-0.9	0	0	0	0	0	0
11/3/2024 20:13	64202	KINZ_T1	3	3	0	0.77	1	0.23	0	0	0	0	0	0	0	0
11/3/2024 20:13	14802	TREI_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
11/3/2024 20:13	67401	WAKE_T2	0	0	0	0	0	0	-0.91	-0.89	0	0	0	0	0	0
11/3/2024 20:13	64201	KINZ_T1	1	3	2	1.2	0.47	-0.73	-0.24	-0.32	1	1	0	900	900	0
11/3/2024 20:13	54504	ENOL_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
11/3/2024 20:13	54201	PENN_T1	61	99	38	0.33	0.33	0	0	0	0	0	0	0	0	0
11/3/2024 20:13	64204	KINZ_T1	1	2	1	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
11/3/2024 20:13	44502	HAMI_T2	1	1	0	2.8	3.1	0.3	0	0	0	0	0	0	0	0
11/3/2024 20:13	44902	SCOT_T2	0	0	0	0	0	0	-0.91	-0.96	0	0	0	0	0	0
11/3/2024 20:13	44505	HAMI_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
11/3/2024 20:13	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
11/3/2024 20:13	20603	GRWO_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
11/3/2024 20:13	20602	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:13	40504	CRES_T1	0	0	0	0	0	0	-0.79	-0.79	0	0	0	0	0	0
11/3/2024 20:13	54203	PENN_T1	111	215	104	0.37	0.31	-0.06	0	0	0	0	0	0	0	0
11/3/2024 20:14	46801	HEPB_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
11/3/2024 20:14	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:14	59202	THOM_T1	35	71	36	0.21	0.21	0	0	0	0	0	0	0	0	0
11/3/2024 20:14	14601	SWHI_T1	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
11/3/2024 20:14	52402	GRPA_T2	4	4	0	0.68	0.93	0.25	-0.85	-0.86	0	0	0	0	0	0
11/3/2024 20:14	44301	BEAV_T2	0	2	2	0	0	0	-1.17	-1.17	1	1	0	600	600	0
11/3/2024 20:14	67402	WAKE_T2	0	0	0	0	0	0	-0.53	-0.52	1	1	0	600	600	0
11/3/2024 20:14	52404	GRPA_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
11/3/2024 20:14	58003	WCAR_T1	11	19	8	0.35	0.23	-0.12	0.69	0.7	0	0	0	0	0	0
11/3/2024 20:14	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:14	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:14	65503	MOJO_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
11/3/2024 20:14	67401	WAKE_T2	0	0	0	0	0	0	-0.91	-0.89	0	0	0	0	0	0
11/3/2024 20:14	60801	BUCK_T1	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
11/3/2024 20:14	20403	ASHF_T2	0	0	0	0	0	0	0.26	0.21	0	0	0	0	0	0
11/3/2024 20:14	67605	WARW_T1	3	3	0	0.83	1.13	0.3	0	0	0	0	0	0	0	0
11/3/2024 20:14	65502	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/3/2024 20:14	44201	POIN_T1	0	0	0	0	0	0	-2.09	-2.08	1	1	0	1200	1200	0
11/3/2024 20:14	63501	HEID_TBK1-2	15	20	5	0.19	0.2	0.01	0.35	0.34	0	0	0	0	0	0
11/3/2024 20:14	67603	WARW_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
11/3/2024 20:14	59201	THOM_T1	14	17	3	0.29	0.32	0.03	0	0	0	0	0	0	0	0
11/3/2024 20:14	14502	SCHO_T1	1	1	0	0.7	0.4	-0.3	0.28	0.28	0	0	0	0	0	0
11/3/2024 20:14	61701	ELIZ_T1	1	1	0	5.3	5.9	0.6	0	0	0	0	0	0	0	0
11/3/2024 20:14	52403	GRPA_T2	2	3	1	0.55	0.73	0.18	0	0	0	0	0	0	0	0
11/3/2024 20:14	52401	GRPA_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
11/3/2024 20:14	58001	WCAR_T1	12	19	7	0.57	0.57	0	0	0	0	0	0	0	0	0
11/3/2024 20:14	61703	ELIZ_T1	0	0	0	0	0	0	-3.9	-3.9	2	2	0	1800	1800	0
11/3/2024 20:15	67605	WARW_T1	3	3	0	0.87	1.3	0.43	0	0	0	0	0	0	0	0
11/3/2024 20:15	40504	CRES_T1	0	0	0	0	0	0	-0.79	-0.79	0	0	0	0	0	0
11/3/2024 20:15	67501	WEWI_T1	0	0	0	0	0	0	-1.4	-1.44	1	1	0	600	600	0
11/3/2024 20:15	14601	SWHI_T1	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
11/3/2024 20:15	14502	SCHO_T1	1	1	0	0.4	0.5	0.1	0.28	0.28	0	0	0	0	0	0
11/3/2024 20:15	59201	THOM_T1	14	22	8	0.31	0.37	0.06	0	0	0	0	0	0	0	0
11/3/2024 20:15	57201	ROSS_T1	68	66	-2	0.21	0.23	0.02	-1.13	-1.13	0	0	0	0	0	0
11/3/2024 20:15	63501	HEID_TBK1-2	6	20	14	0.2	0.2	0	0.71	0.69	0	0	0	0	0	0
11/3/2024 20:15	13303	ORVI_T1	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
11/3/2024 20:15	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:15	66504	SMAN_T2	0	0	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
11/3/2024 20:15	67603	WARW_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
11/3/2024 20:15	59202	THOM_T1	54	180	126	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
11/3/2024 20:15	63601	LETO_T1	6	6	0	0.72	0.8	0.08	-0.01	-0.06	1	1	0	900	900	0
11/3/2024 20:15	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/3/2024 20:15	66505	SMAN_T2	3	3	0	1.13	1.53	0.4	0	0	0	0	0	0	0	0
11/3/2024 20:15	44201	POIN_T1	0	0	0	0	0	0	-2.09	-2.08	1	1	0	1200	1200	0
11/3/2024 20:15	10801	CHHI_T1	1	102	101	0.1	0.28	0.18	-2.24	-2.26	3	3	0	2100	2100	0
11/3/2024 20:15	54502	ENOL_T2	1	1	0	0.7	0.7	0	-1.99	-2	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/3/2024 20:16	58001	WCAR_T1	18	20	2	0.55	0.56	0.01	0	0	0	0	0	0	0	0
11/3/2024 20:16	65502	MOJO_T2	0	1	1	0	0.1	0.1	-1.28	-1.32	0	0	0	0	0	0
11/3/2024 20:16	66505	SMAN_T2	3	3	0	1.13	1.53	0.4	-0.62	-0.55	1	1	0	900	900	0
11/3/2024 20:16	61303	EARL_T1	0	0	0	0	0	0	-0.11	-0.14	0	0	0	0	0	0
11/3/2024 20:16	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:16	64204	KINZ_T1	1	2	1	1	0.55	-0.45	0	0	0	0	0	0	0	0
11/3/2024 20:16	63802	HEMP_T1	2	9	7	0.1	0.1	0	0	0	0	0	0	0	0	0
11/3/2024 20:16	23901	EFMO_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
11/3/2024 20:16	64203	KINZ_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
11/3/2024 20:16	44801	EDAN_T2	1	1	0	8.8	0.4	-8.4	0	0	0	0	0	0	0	0
11/3/2024 20:16	66502	SMAN_T2	0	0	0	0	0	0	-0.35	-0.31	0	0	0	0	0	0
11/3/2024 20:16	64201	KINZ_T1	2	3	1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
11/3/2024 20:16	44802	EDAN_T2	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
11/3/2024 20:16	63803	HEMP_T1	46	62	16	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
11/3/2024 20:16	64202	KINZ_T1	3	3	0	1	1	0	0	0	0	0	0	0	0	0
11/3/2024 20:16	54603	SUMM_T2	0	0	0	0	0	0	-0.59	-0.56	1	1	0	900	900	0
11/3/2024 20:16	64101	REFR_T1	0	0	0	0	0	0	-0.54	-0.6	0	0	0	0	0	0
11/3/2024 20:16	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:16	54601	SUMM_T2	11	11	0	0.56	0.71	0.15	0	0	0	0	0	0	0	0
11/3/2024 20:16	58003	WCAR_T1	12	23	11	0.31	0.2	-0.11	0.69	0.7	0	0	0	0	0	0
11/3/2024 20:16	63804	HEMP_T1	6	6	0	1.12	1.14	0.02	0	0	0	0	0	0	0	0
11/3/2024 20:16	63801	HEMP_T1	20	32	12	0.13	0.13	0	-0.3	-0.45	0	0	0	0	0	0
11/3/2024 20:16	58401	MORO_T1	0	0	0	0	0	0	-1.79	-1.85	1	1	0	600	600	0
11/3/2024 20:17	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:17	57403	SPAN_T1	7	12	5	0.17	0.23	0.06	0.06	0.06	0	0	0	0	0	0
11/3/2024 20:17	62103	ELAN_T1	3	5	2	0.33	0.26	-0.07	0	0	0	0	0	0	0	0
11/3/2024 20:17	44502	HAMI_T2	1	1	0	2.9	3.1	0.2	0	0	0	0	0	0	0	0
11/3/2024 20:17	40101	HUNT_T2	1	5	4	0.8	1	0.2	-1.58	-1.55	0	0	0	0	0	0
11/3/2024 20:17	62101	ELAN_T1	8	9	1	0.28	0.22	-0.06	0	0	0	0	0	0	0	0
11/3/2024 20:17	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:17	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:17	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
11/3/2024 20:17	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
11/3/2024 20:17	62102	ELAN_T1	0	0	0	0	0	0	0.64	0.54	0	0	0	0	0	0
11/3/2024 20:17	44202	POIN_T2	0	0	0	0	0	0	-1.02	-1.04	1	1	0	1200	1200	0
11/3/2024 20:17	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:17	64303	LINC_T1	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
11/3/2024 20:17	66505	SMAN_T2	3	3	0	1.13	1.53	0.4	-0.62	-0.55	1	1	0	900	900	0
11/3/2024 20:17	61302	EARL_T1	0	0	0	0	0	0	-0.57	-0.56	2	2	0	1800	1800	0
11/3/2024 20:17	40602	PIGR_T1	1	1	0	2.2	1.6	-0.6	0	0	0	0	0	0	0	0
11/3/2024 20:17	57401	SPAN_T1	2	2	0	1.4	1.45	0.05	0	0	0	0	0	0	0	0
11/3/2024 20:17	67402	WAKE_T2	0	0	0	0	0	0	-0.53	-0.52	1	1	0	600	600	0
11/3/2024 20:17	62105	ELAN_T1	57	100	43	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
11/3/2024 20:17	57201	ROSS_T1	68	66	-2	0.21	0.23	0.02	-1.13	-1.13	0	0	0	0	0	0
11/3/2024 20:17	61701	ELIZ_T1	1	1	0	5.7	5.9	0.2	0	0	0	0	0	0	0	0
11/3/2024 20:17	59402	RFLD_T2	0	0	0	0	0	0	-0.9	-0.9	1	1	0	450	450	0
11/3/2024 20:17	58402	MORO_T1	0	0	0	0	0	0	0.12	0.11	1	1	0	900	900	0
11/3/2024 20:17	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:17	61703	ELIZ_T1	0	0	0	0	0	0	-1.95	-1.95	1	1	0	900	900	0
11/3/2024 20:17	61803	EELI_T2	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
11/3/2024 20:17	43202	MVIL_T2	0	18	18	0	0.18	0.18	-1.24	-1.38	0	0	0	0	0	0
11/3/2024 20:17	62106	ELAN_T1	11	17	6	0.28	0.28	0	0	0	0	0	0	0	0	0
11/3/2024 20:17	61801	EELI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
11/3/2024 20:17	62104	ELAN_T1	30	82	52	0.15	0.15	0	0	0	0	0	0	0	0	0
11/3/2024 20:18	40502	CRES_T2	18	22	4	0.22	0.3	0.08	-0.36	-0.4	0	0	0	0	0	0
11/3/2024 20:18	66505	SMAN_T2	3	3	0	1.13	1.53	0.4	0	0	0	0	0	0	0	0
11/3/2024 20:18	57205	ROSS_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
11/3/2024 20:18	66504	SMAN_T2	0	0	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
11/3/2024 20:18	60801	BUCK_T1	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
11/3/2024 20:18	63803	HEMP_T1	46	62	16	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
11/3/2024 20:18	40501	CRES_T2	0	7	7	0	0.16	0.16	0	0	0	0	0	0	0	0
11/3/2024 20:18	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
11/3/2024 20:18	54204	PENN_T2	3	3	0	0.3	0.33	0.03	0	0	0	0	0	0	0	0
11/3/2024 20:18	57201	ROSS_T1	68	66	-2	0.21	0.23	0.02	0	0	0	0	0	0	0	0
11/3/2024 20:18	61701	ELIZ_T1	1	1	0	5.7	5.9	0.2	0	0	0	0	0	0	0	0
11/3/2024 20:18	54601	SUMM_T2	11	11	0	0.56	0.71	0.15	0	0	0	0	0	0	0	0
11/3/2024 20:18	54201	PENN_T1	65	110	45	0.33	0.35	0.02	0	0	0	0	0	0	0	0
11/3/2024 20:18	65502	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/3/2024 20:18	54202	PENN_T2	31	93	62	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
11/3/2024 20:18	63802	HEMP_T1	2	9	7	0.1	0.1	0	0	0	0	0	0	0	0	0
11/3/2024 20:18	63801	HEMP_T1	20	32	12	0.13	0.13	0	-0.3	-0.45	0	0	0	0	0	0
11/3/2024 20:18	61302	EARL_T1	0	0	0	0	0	0	-0.57	-0.56	2	2	0	1800	1800	0
11/3/2024 20:18	64101	REFR_T1	0	0	0	0	0	0	-0.54	-0.6	0	0	0	0	0	0
11/3/2024 20:18	63804	HEMP_T1	6	6	0	1.12	1.14	0.02	0	0	0	0	0	0	0	0
11/3/2024 20:18	54203	PENN_T1	158	222	64	0.32	0.33	0.01	0.69	0.69	0	0	0	0	0	0
11/3/2024 20:18	60101	COCA_T1	0	0	0	0	0	0	0.18	0.24	0	0	0	0	0	0
11/3/2024 20:18	54206	PENN_T2	52	65	13	0.23	0.27	0.04	-0.08	-0.09	0	0	0	0	0	0
11/3/2024 20:18	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:18	54205	PENN_T1	76	76	0	0.3	0.32	0.02	0	0	0	0	0	0	0	0
11/3/2024 20:18	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:18	42601	TUSC_T1	0	0	0	0	0	0	-0.6	-0.63	1	1	0	1200	1200	0
11/3/2024 20:18	54603	SUMM_T2	0	0	0	0	0	0	-0.59	-0.56	1	1	0	900	900	0
11/3/2024 20:19	44901	SCOT_T2	0	1	1	0	0.1	0.1	-0.56	-0.68	0	0	0	0	0	0
11/3/2024 20:19	52403	GRPA_T2	3	3	0	0.6	0.8	0.2	-0.23	-0.21	0	0	0	0	0	0
11/3/2024 20:19	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:19	52404	GRPA_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
11/3/2024 20:19	44201	POIN_T1	0	0	0	0	0	0	-2.09	-2.08	1	1	0	1200	1200	0
11/3/2024 20:19	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:19	52402	GRPA_T2	3	4	1	1.13	0.95	-0.18	-0.85	-0.86	0	0	0	0	0	0
11/3/2024 20:20	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
11/3/2024 20:20	44801	EDAN_T2	1	1	0	8.8	0.4	-8.4	0	0	0	0	0	0	0	0
11/3/2024 20:20	44301	BEAV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:20	58401	MORO_T1	0	0	0	0	0	0	-1.79	-1.85	1	1	0	600	600	0
11/3/2024 20:20	44802	EDAN_T2	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
11/3/2024 20:20	65502	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/3/2024 20:20	64305	LINC_T1	0	0	0	0	0	0	-0.73	-0.78	0	0	0	0	0	0
11/3/2024 20:21	61703	ELIZ_T1	0	0	0	0	0	0	-1.95	-1.95	1	1	0	900	900	0
11/3/2024 20:21	61701	ELIZ_T1	1	1	0	5.7	5.9	0.2	0	0	0	0	0	0	0	0
11/3/2024 20:21	58401	MORO_T1	0	0	0	0	0	0	-3.69	-3.66	2	2	0	1200	1200	0
11/3/2024 20:27	60101	COCA_T1	0	0	0	0	0	0	0.24	0.18	0	0	0	0	0	0
11/3/2024 20:30	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/3/2024 20:30	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:33	44801	EDAN_T2	1	1	0	7.7	0	-7.7	-0.51	-0.53	0	0	0	0	0	0
11/3/2024 20:36	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/3/2024 20:37	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/3/2024 20:47	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2024 20:47	67402	WAKE_T2	0	0	0	0	0	0	-0.51	-0.52	1	1	0	600	600	0
11/3/2024 20:54	45501	DERR_T2	0	0	0	0	0	0	0.07	0.05	1	1	0	600	600	0
11/3/2024 21:00	59402	RFLD_T2	0	0	0	0	0	0	-0.91	-0.92	1	1	0	450	450	0
11/3/2024 21:14	28403	HART_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
11/3/2024 21:16	60101	COCA_T1	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
11/3/2024 23:08	28102	TWLA_T2	5	6	1	0.34	0.43	0.09	0.16	0.17	0	0	0	0	0	0
11/4/2024 8:24	65701	RVIL_T1	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
11/4/2024 8:27	54501	ENOL_T2	3	2	-1	0.13	0.3	0.17	0	0	0	0	0	0	0	0
11/4/2024 8:27	54505	ENOL_T2	1	1	0	1.1	1.3	0.2	-1.23	-1.23	1	1	0	600	600	0
11/4/2024 8:27	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
11/4/2024 8:27	54503	ENOL_T2	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/4/2024 8:28	63306	GREE_T1	0	0	0	0	0	0	-1.2	-1.22	0	0	0	0	0	0
11/4/2024 8:28	63305	GREE_T1	1	5	4	0.1	0.22	0.12	0	0	0	0	0	0	0	0
11/4/2024 8:34	55002	NEWP_T1	7	7	0	0.94	0.76	-0.18	-0.21	-0.22	0	0	0	0	0	0
11/4/2024 8:37	66502	SMAN_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/4/2024 8:37	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/4/2024 8:37	66505	SMAN_T2	3	2	-1	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
11/4/2024 8:37	67505	WEWI_T1	0	0	0	0	0	0	-0.06	-0.01	1	1	0	900	900	0
11/4/2024 8:37	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 8:39	67504	WEWI_T1	0	0	0	0	0	0	0.63	0.65	0	0	0	0	0	0
11/4/2024 8:40	40505	CRES_T1	0	0	0	0	0	0	0.47	0.37	0	0	0	0	0	0
11/4/2024 8:41	58803	COCO_T1	23	27	4	0.83	0.76	-0.07	-0.62	-0.66	0	0	0	0	0	0
11/4/2024 8:44	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 8:44	53501	EVIL_T2	3	3	0	0.73	0.8	0.07	-0.27	-0.02	2	2	0	1200	1200	0
11/4/2024 8:44	61801	EELI_T2	2	3	1	0.9	0.67	-0.23	-0.16	-0.17	0	0	0	0	0	0
11/4/2024 8:44	61802	EELI_T2	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
11/4/2024 8:45	58803	COCO_T1	23	30	7	0.87	0.83	-0.04	0	0	0	0	0	0	0	0
11/4/2024 8:53	65702	RVIL_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
11/4/2024 8:53	50624	CCTY_T2	2	2	0	5.8	5.65	-0.15	0	0	0	0	0	0	0	0
11/4/2024 8:53	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 8:53	50625	CCTY_T2	5	6	1	2.82	2.37	-0.45	0	0	0	0	0	0	0	0
11/4/2024 8:53	50623	CCTY_T2	5	5	0	6.34	5.32	-1.02	0	0	0	0	0	0	0	0
11/4/2024 8:55	65702	RVIL_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
11/4/2024 8:57	40502	CRES_T2	8	7	-1	0.13	0.24	0.11	-0.19	-0.18	0	0	0	0	0	0
11/4/2024 8:57	54501	ENOL_T2	2	5	3	0.3	0.32	0.02	0	0	0	0	0	0	0	0
11/4/2024 8:57	40501	CRES_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
11/4/2024 8:57	54505	ENOL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
11/4/2024 8:57	54504	ENOL_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
11/4/2024 8:57	54503	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 8:57	54502	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 8:58	40501	CRES_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
11/4/2024 8:58	40502	CRES_T2	8	7	-1	0.13	0.24	0.11	-0.19	-0.18	0	0	0	0	0	0
11/4/2024 9:01	54505	ENOL_T2	1	2	1	1.2	0.85	-0.35	-1.26	-1.27	1	1	0	600	600	0
11/4/2024 9:01	54503	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 9:01	54502	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 9:01	54501	ENOL_T2	1	5	4	0.6	0.36	-0.24	0	0	0	0	0	0	0	0
11/4/2024 9:04	12803	MICK_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
11/4/2024 9:04	12807	MICK_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/4/2024 9:04	12806	MICK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 9:04	12801	MICK_T1	0	0	0	0	0	0	-0.11	-0.09	1	1	0	600	600	0
11/4/2024 9:06	67106	SPRI_T2	0	0	0	0	0	0	-1.31	-1.33	1	1	0	900	900	0
11/4/2024 9:08	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 9:08	45402	WBLO_T2	257	258	1	1.31	1.49	0.18	-1.21	-1.23	0	0	0	0	0	0
11/4/2024 9:08	67501	WEWI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 9:08	67505	WEWI_T1	0	0	0	0	0	0	-0.2	-0.1	1	1	0	900	900	0
11/4/2024 9:09	45302	WBER_T2	1	0	-1	0.6	0	-0.6	0.65	0.7	0	0	0	0	0	0
11/4/2024 9:09	51102	CARL_T1	70	129	59	0.23	0.31	0.08	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/4/2024 9:09	51101	CARL_T1	1	4	3	5.1	1.33	-3.77	0	0	0	0	0	0	0	0
11/4/2024 9:09	51108	CARL_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/4/2024 9:09	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 9:10	67303	WYOM_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
11/4/2024 9:10	55102	WERT_T2	0	0	0	0	0	0	0.29	0.33	1	1	0	600	600	0
11/4/2024 9:11	43402	BENT_T1	0	2	2	0	0.25	0.25	-0.89	-0.92	1	1	0	900	900	0
11/4/2024 9:13	54503	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 9:13	43402	BENT_T1	0	2	2	0	0.25	0.25	-0.89	-0.92	1	1	0	900	900	0
11/4/2024 9:13	54502	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 9:13	54505	ENOL_T2	1	2	1	1.2	0.85	-0.35	-1.27	-1.29	1	1	0	600	600	0
11/4/2024 9:13	54501	ENOL_T2	1	5	4	0.6	0.36	-0.24	0	0	0	0	0	0	0	0
11/4/2024 9:14	54502	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 9:14	54505	ENOL_T2	1	2	1	1.2	0.85	-0.35	-1.27	-1.29	1	1	0	600	600	0
11/4/2024 9:14	54503	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 9:14	54501	ENOL_T2	1	5	4	0.6	0.36	-0.24	0	0	0	0	0	0	0	0
11/4/2024 9:14	23201	HIRU_T2	0	2	2	0	0.1	0.1	0.16	0.16	0	0	0	0	0	0
11/4/2024 9:15	54501	ENOL_T2	5	5	0	0.32	0.48	0.16	0	0	0	0	0	0	0	0
11/4/2024 9:15	54504	ENOL_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
11/4/2024 9:15	54503	ENOL_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/4/2024 9:15	54502	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
11/4/2024 9:15	54505	ENOL_T2	1	2	1	1.3	0.95	-0.35	0	0	0	0	0	0	0	0
11/4/2024 9:16	11205	ELHE_T1	1	1	0	2.5	0.8	-1.7	0	0	0	0	0	0	0	0
11/4/2024 9:16	52401	GRPA_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
11/4/2024 9:16	11203	ELHE_T1	0	0	0	0	0	0	1.27	1.26	0	0	0	0	0	0
11/4/2024 9:16	63501	HEID_TBK1-2	15	4	-11	0.19	0.28	0.09	0.24	0.15	1	1	0	900	900	0
11/4/2024 9:16	52404	GRPA_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
11/4/2024 9:16	52403	GRPA_T2	21	37	16	0.77	0.49	-0.28	0	0	0	0	0	0	0	0
11/4/2024 9:16	52402	GRPA_T2	17	35	18	0.47	0.36	-0.11	-0.83	-0.87	0	0	0	0	0	0
11/4/2024 9:21	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 9:21	65207	PRIN_T4	3	4	1	0.57	0.97	0.4	0	0	0	0	0	0	0	0
11/4/2024 9:22	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 9:22	43301	WATS_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
11/4/2024 9:25	67503	WEWI_T2	1	1	0	7.7	8.2	0.5	0	0	0	0	0	0	0	0
11/4/2024 9:25	24801	VALM_T1	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
11/4/2024 9:25	67502	WEWI_T2	2	3	1	0.6	0.63	0.03	-0.19	-0.12	0	0	0	0	0	0
11/4/2024 9:26	58803	COCO_T1	29	147	118	0.86	0.36	-0.5	0	0	0	0	0	0	0	0
11/4/2024 9:26	67504	WEWI_T1	0	0	0	0	0	0	0.63	0.62	0	0	0	0	0	0
11/4/2024 9:26	67501	WEWI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 9:27	43301	WATS_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
11/4/2024 9:27	46004	BERW_T2	0	0	0	0	0	0	-0.28	-0.22	0	0	0	0	0	0
11/4/2024 9:27	45501	DERR_T2	0	0	0	0	0	0	0.6	0.83	2	2	0	1800	1800	0
11/4/2024 9:27	46002	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/4/2024 9:27	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 9:28	45501	DERR_T2	0	0	0	0	0	0	0.6	0.83	2	2	0	1800	1800	0
11/4/2024 9:31	52402	GRPA_T2	11	40	29	0.63	0.35	-0.28	-0.87	-0.89	0	0	0	0	0	0
11/4/2024 9:31	52404	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/4/2024 9:31	52401	GRPA_T2	1	2	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
11/4/2024 9:31	52403	GRPA_T2	22	42	20	0.6	0.42	-0.18	0	0	0	0	0	0	0	0
11/4/2024 9:31	45702	LIND_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/4/2024 9:31	45701	LIND_T2	0	0	0	0	0	0	-0.31	-1.64	0	0	0	0	0	0
11/4/2024 9:32	52403	GRPA_T2	22	42	20	0.6	0.42	-0.18	0	0	0	0	0	0	0	0
11/4/2024 9:32	52401	GRPA_T2	1	2	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
11/4/2024 9:32	52404	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/4/2024 9:32	52402	GRPA_T2	11	40	29	0.63	0.35	-0.28	-0.87	-0.89	0	0	0	0	0	0
11/4/2024 9:33	64101	REFR_T1	0	1	1	0	0.4	0.4	-0.12	-0.16	0	0	0	0	0	0
11/4/2024 9:34	65207	PRIN_T4	3	5	2	2.17	0.6	-1.57	0	0	1	1	0	1200	1200	0
11/4/2024 9:38	67503	WEWI_T2	1	1	0	8.2	8.3	0.1	0	0	0	0	0	0	0	0
11/4/2024 9:38	67502	WEWI_T2	3	2	-1	0.5	1	0.5	-0.12	-0.04	0	0	0	0	0	0
11/4/2024 9:41	45502	DERR_T2	0	0	0	0	0	0	0.05	-0.04	1	1	0	300	300	0
11/4/2024 9:41	67503	WEWI_T2	1	1	0	8.2	8.3	0.1	-0.95	-0.66	0	0	0	0	0	0
11/4/2024 9:41	67502	WEWI_T2	3	2	-1	0.5	1	0.5	0	0	0	0	0	0	0	0
11/4/2024 9:42	53501	EVIL_T2	2	2	0	0.6	0.75	0.15	0	-0.11	2	2	0	1200	1200	0
11/4/2024 9:42	67502	WEWI_T2	3	2	-1	0.5	1	0.5	0	0	0	0	0	0	0	0
11/4/2024 9:42	67503	WEWI_T2	1	1	0	8.2	8.3	0.1	-0.47	-0.33	0	0	0	0	0	0
11/4/2024 9:43	63501	HEID_TBK1-2	4	2	-2	0.25	0.2	-0.05	0.09	0.13	1	1	0	900	900	0
11/4/2024 9:44	63501	HEID_TBK1-2	4	2	-2	0.25	0.2	-0.05	0.09	0.13	1	1	0	900	900	0
11/4/2024 9:46	65402	MARI_T1	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
11/4/2024 9:46	65401	MARI_T1	3	21	18	0.2	0.16	-0.04	1.4	1.43	0	0	0	0	0	0
11/4/2024 9:47	63501	HEID_TBK1-2	1	3	2	0.2	0.2	0	0.09	0.13	1	1	0	900	900	0
11/4/2024 9:47	54501	ENOL_T2	5	5	0	0.48	0.6	0.12	0	0	0	0	0	0	0	0
11/4/2024 9:47	54502	ENOL_T2	1	2	1	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
11/4/2024 9:47	54505	ENOL_T2	2	2	0	0.95	1.15	0.2	0	0	0	0	0	0	0	0
11/4/2024 9:47	65402	MARI_T1	1	3	2	0.3	0.33	0.03	0.26	0.28	0	0	0	0	0	0
11/4/2024 9:47	54506	ENOL_T2	0	0	0	0	0	0	1.06	1.03	0	0	0	0	0	0
11/4/2024 9:47	65401	MARI_T1	3	21	18	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
11/4/2024 9:47	54503	ENOL_T2	1	8	7	0.1	0.21	0.11	0	0	0	0	0	0	0	0
11/4/2024 9:48	65401	MARI_T1	3	21	18	0.2	0.16	-0.04	1.4	1.43	0	0	0	0	0	0
11/4/2024 9:48	65402	MARI_T1	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
11/4/2024 9:49	65402	MARI_T1	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
11/4/2024 9:49	65401	MARI_T1	3	21	18	0.2	0.16	-0.04	1.4	1.43	0	0	0	0	0	0
11/4/2024 9:50	45702	LIND_T2	0	2	2	0	0.15	0.15	-0.45	-0.44	0	0	0	0	0	0
11/4/2024 9:50	65402	MARI_T1	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
11/4/2024 9:50	65401	MARI_T1	3	21	18	0.2	0.16	-0.04	0.47	0.48	0	0	0	0	0	0
11/4/2024 9:51	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/4/2024 9:51	65402	MARI_T1	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
11/4/2024 9:51	65401	MARI_T1	3	21	18	0.2	0.16	-0.04	0.48	0.47	0	0	0	0	0	0
11/4/2024 9:51	67605	WARW_T1	8	7	-1	0.35	0.79	0.44	0	0	0	0	0	0	0	0
11/4/2024 9:52	65402	MARI_T1	1	3	2	0.3	0.33	0.03	0.28	0.22	0	0	0	0	0	0
11/4/2024 9:52	65401	MARI_T1	3	21	18	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
11/4/2024 9:52	65005	NEFF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/4/2024 9:52	65004	NEFF_T2	1	1	0	0.4	0.6	0.2	-1.18	-1.2	1	1	0	600	600	0
11/4/2024 9:52	65003	NEFF_T2	0	6	6	0	0.17	0.17	0	0	0	0	0	0	0	0
11/4/2024 9:55	43802	SWIL_T1	0	0	0	0	0	0	-0.11	-0.13	1	1	0	600	600	0
11/4/2024 9:55	43801	SWIL_T1	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
11/4/2024 9:58	41801	GOCI_T2	6	5	-1	0.4	0.44	0.04	0	0	0	0	0	0	0	0
11/4/2024 10:00	50623	CCTY_T2	5	0	-5	5.4	5.38	-0.02	0	0	0	0	0	0	0	0
11/4/2024 10:00	43801	SWIL_T1	1	1	0	5.1	5.4	0.3	0	0	0	0	0	0	0	0
11/4/2024 10:00	65207	PRIN_T4	3	5	2	0.73	1.73	1	0	0	1	1	0	1200	1200	0
11/4/2024 10:00	65206	PRIN_T4	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 10:00	16102	BING_T2	4	5	1	0.33	0.26	-0.07	0	0	0	0	0	0	0	0
11/4/2024 10:00	16101	BING_T2	0	1	1	0	0.1	0.1	0.36	0.36	0	0	0	0	0	0
11/4/2024 10:00	67502	WEWI_T2	2	5	3	1	0.6	-0.4	0	0	0	0	0	0	0	0
11/4/2024 10:00	50625	CCTY_T2	6	6	0	2.5	2.45	-0.05	0	0	0	0	0	0	0	0
11/4/2024 10:00	43201	MVIL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/4/2024 10:00	43202	MVIL_T2	96	108	12	0.93	0.71	-0.22	-0.58	-0.57	0	0	0	0	0	0
11/4/2024 10:00	43802	SWIL_T1	0	0	0	0	0	0	-0.11	-0.13	1	1	0	600	600	0
11/4/2024 10:00	24202	TWLA_T2	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
11/4/2024 10:00	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 10:00	40505	CRES_T1	0	0	0	0	0	0	0.28	0.31	0	0	0	0	0	0
11/4/2024 10:00	67503	WEWI_T2	1	1	0	8.3	8.7	0.4	-0.33	-0.36	0	0	0	0	0	0
11/4/2024 10:00	50624	CCTY_T2	2	2	0	5.75	5.75	0	0	0	0	0	0	0	0	0
11/4/2024 10:01	40801	EXCH_T2	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
11/4/2024 10:05	55002	NEWP_T1	9	12	3	1.04	1.06	0.02	-0.23	-0.21	0	0	0	0	0	0
11/4/2024 10:05	55001	NEWP_T1	1	5	4	0.1	0.38	0.28	0	0	0	0	0	0	0	0
11/4/2024 10:07	55002	NEWP_T1	9	12	3	1.04	1.06	0.02	-0.21	-0.23	0	0	0	0	0	0
11/4/2024 10:07	66505	SMAN_T2	0	0	0	0	0	0	0.2	0.18	2	2	0	1800	1800	0
11/4/2024 10:07	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/4/2024 10:07	64802	MONE_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
11/4/2024 10:07	66502	SMAN_T2	2	10	8	0.4	0.22	-0.18	0	0	0	0	0	0	0	0
11/4/2024 10:07	66504	SMAN_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
11/4/2024 10:07	55001	NEWP_T1	1	5	4	0.1	0.38	0.28	0	0	0	0	0	0	0	0
11/4/2024 10:07	64801	MONE_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
11/4/2024 10:08	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/4/2024 10:08	65207	PRIN_T4	3	5	2	0.73	1.73	1	0	0	0	0	0	0	0	0
11/4/2024 10:08	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 10:08	65206	PRIN_T4	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 10:08	66505	SMAN_T2	0	0	0	0	0	0	0.1	0.09	1	1	0	900	900	0
11/4/2024 10:08	66502	SMAN_T2	2	10	8	0.4	0.22	-0.18	0	0	0	0	0	0	0	0
11/4/2024 10:08	66504	SMAN_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
11/4/2024 10:10	45501	DERR_T2	0	0	0	0	0	0	0.94	0.9	2	2	0	1800	1800	0
11/4/2024 10:10	40502	CRES_T2	16	24	8	0.23	0.33	0.1	-0.28	-0.28	0	0	0	0	0	0
11/4/2024 10:10	40501	CRES_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/4/2024 10:11	45402	WBLO_T2	258	262	4	1.47	1.44	-0.03	-1.21	-1.22	0	0	0	0	0	0
11/4/2024 10:12	60201	ATGL_T2	0	2	2	0	0.3	0.3	-0.01	-0.16	0	0	0	0	0	0
11/4/2024 10:13	58803	COCO_T1	144	50	-94	0.33	0.62	0.29	0	0	0	0	0	0	0	0
11/4/2024 10:14	45501	DERR_T2	0	0	0	0	0	0	0.94	0.9	2	2	0	1800	1800	0
11/4/2024 10:14	11903	ETEX_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
11/4/2024 10:15	63601	LETO_T1	2	5	3	0.25	0.42	0.17	1.59	1.56	0	0	0	0	0	0
11/4/2024 10:15	43301	WATS_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
11/4/2024 10:16	45702	LIND_T2	1	2	1	0.1	0.2	0.1	-0.45	-0.47	0	0	0	0	0	0
11/4/2024 10:17	65205	PRIN_T1	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
11/4/2024 10:17	65202	PRIN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/4/2024 10:18	64302	LINC_T2	0	0	0	0	0	0	1.15	0	0	0	0	0	0	0
11/4/2024 10:18	64304	LINC_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/4/2024 10:18	45701	LIND_T2	0	0	0	0	0	0	-1.71	-1.72	0	0	0	0	0	0
11/4/2024 10:18	45702	LIND_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/4/2024 10:19	63601	LETO_T1	2	5	3	0.25	0.42	0.17	1.59	1.56	0	0	0	0	0	0
11/4/2024 10:20	55001	NEWP_T1	5	2	-3	0.38	0.55	0.17	-0.32	-0.36	0	0	0	0	0	0
11/4/2024 10:20	55002	NEWP_T1	12	7	-5	1.06	1.09	0.03	0	0	0	0	0	0	0	0
11/4/2024 10:21	67001	STHI_T2	18	4	-14	0.22	0.3	0.08	0	0	0	0	0	0	0	0
11/4/2024 10:21	52502	PROG_T2	1	1	0	0.3	0.2	-0.1	-0.67	-0.69	1	1	0	900	900	0
11/4/2024 10:21	15203	SFAR_T2	3	3	0	0.27	0.33	0.06	-1.36	-1.35	0	0	0	0	0	0
11/4/2024 10:21	67002	STHI_T2	17	6	-11	0.22	0.2	-0.02	0.56	0.56	0	0	0	0	0	0
11/4/2024 10:22	67002	STHI_T2	17	6	-11	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
11/4/2024 10:22	67001	STHI_T2	18	4	-14	0.22	0.3	0.08	0.06	0.07	0	0	0	0	0	0
11/4/2024 10:22	15203	SFAR_T2	3	3	0	0.27	0.33	0.06	-1.36	-1.35	0	0	0	0	0	0
11/4/2024 10:23	67002	STHI_T2	17	6	-11	0.22	0.2	-0.02	1.12	1.12	0	0	0	0	0	0
11/4/2024 10:23	52502	PROG_T2	1	1	0	0.3	0.2	-0.1	-0.67	-0.69	1	1	0	900	900	0
11/4/2024 10:23	67001	STHI_T2	18	4	-14	0.22	0.3	0.08	0.06	0.07	0	0	0	0	0	0
11/4/2024 10:23	67103	SPRI_T1	0	0	0	0	0	0	0.51	0.6	0	0	0	0	0	0
11/4/2024 10:23	15203	SFAR_T2	3	3	0	0.27	0.33	0.06	-1.36	-1.35	0	0	0	0	0	0
11/4/2024 10:24	67001	STHI_T2	18	4	-14	0.22	0.3	0.08	0.06	0.07	0	0	0	0	0	0
11/4/2024 10:24	67002	STHI_T2	17	6	-11	0.22	0.2	-0.02	0.56	0.56	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/4/2024 10:24	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 10:25	67002	STHI_T2	17	6	-11	0.22	0.2	-0.02	1.68	1.68	0	0	0	0	0	0
11/4/2024 10:25	67001	STHI_T2	18	4	-14	0.22	0.3	0.08	0.06	0.07	0	0	0	0	0	0
11/4/2024 10:26	58803	COCO_T1	50	25	-25	0.62	0.6	-0.02	-0.66	-0.66	0	0	0	0	0	0
11/4/2024 10:26	42701	AUGU_T1	2	2	0	0.95	1.1	0.15	0	0	2	2	0	1800	1800	0
11/4/2024 10:26	67001	STHI_T2	18	4	-14	0.22	0.3	0.08	0	0	0	0	0	0	0	0
11/4/2024 10:26	67002	STHI_T2	17	6	-11	0.22	0.2	-0.02	0.56	0.56	0	0	0	0	0	0
11/4/2024 10:27	42701	AUGU_T1	2	2	0	0.95	1.1	0.15	0	0	2	2	0	1800	1800	0
11/4/2024 10:27	67001	STHI_T2	18	4	-14	0.22	0.3	0.08	0	0	0	0	0	0	0	0
11/4/2024 10:27	67002	STHI_T2	17	6	-11	0.22	0.2	-0.02	0.56	0.56	0	0	0	0	0	0
11/4/2024 10:29	41801	COCI_T2	5	3	-2	0.44	0.3	-0.14	0	0	0	0	0	0	0	0
11/4/2024 10:30	63501	HEID_T8K1-2	0	1	1	0	0.5	0.5	0.13	0.04	1	1	0	900	900	0
11/4/2024 10:31	63501	HEID_T8K1-2	0	1	1	0	0.5	0.5	0.13	0.04	1	1	0	900	900	0
11/4/2024 10:32	23401	HONE_T2	0	0	0	0	0	0	-1.03	-1.03	0	0	0	0	0	0
11/4/2024 10:32	63501	HEID_T8K1-2	0	1	1	0	0.5	0.5	0.13	0.04	1	1	0	900	900	0
11/4/2024 10:33	63501	HEID_T8K1-2	0	1	1	0	0.5	0.5	0.13	0.04	1	1	0	900	900	0
11/4/2024 10:35	63501	HEID_T8K1-2	0	1	1	0	0.5	0.5	0.13	0.04	1	1	0	900	900	0
11/4/2024 10:40	43304	WATS_T2	0	0	0	0	0	0	-0.3	-0.04	0	0	0	0	0	0
11/4/2024 10:40	64801	MONE_T2	1	1	0	0.8	0.9	0.1	-0.01	-0.01	0	0	0	0	0	0
11/4/2024 10:40	64802	MONE_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
11/4/2024 10:42	53501	EVIL_T2	2	4	2	0.5	0.73	0.23	-0.33	0.1	4	4	0	2400	2400	0
11/4/2024 10:42	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 10:42	51304	WIND_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/4/2024 10:42	53502	EVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/4/2024 10:42	23401	HONE_T2	0	0	0	0	0	0	-2.05	-2.1	0	0	0	0	0	0
11/4/2024 10:43	43304	WATS_T2	0	0	0	0	0	0	-0.3	-0.04	0	0	0	0	0	0
11/4/2024 10:43	44801	EDAN_T2	27	61	34	0.27	0.29	0.02	-0.43	-0.42	0	0	0	0	0	0
11/4/2024 10:43	44802	EDAN_T2	3	7	4	0.15	0.24	0.09	0	0	0	0	0	0	0	0
11/4/2024 10:43	60101	COCA_T1	0	0	0	0	0	0	0.36	0.27	0	0	0	0	0	0
11/4/2024 10:44	60101	COCA_T1	0	0	0	0	0	0	0.72	0.55	0	0	0	0	0	0
11/4/2024 10:44	52401	GRPA_T2	59	31	-28	0.18	0.18	0	0	0	0	0	0	0	0	0
11/4/2024 10:44	52404	GRPA_T2	1	3	2	1	0.37	-0.63	0	0	0	0	0	0	0	0
11/4/2024 10:44	52402	GRPA_T2	61	95	34	0.36	0.39	0.03	-0.89	-0.87	0	0	0	0	0	0
11/4/2024 10:44	52403	GRPA_T2	252	222	-30	0.52	0.52	0	0	0	0	0	0	0	0	0
11/4/2024 10:45	52404	GRPA_T2	3	3	0	0.37	0.43	0.06	0	0	0	0	0	0	0	0
11/4/2024 10:45	53501	EVIL_T2	4	3	-1	0.63	0.87	0.24	-0.16	0.05	2	2	0	1200	1200	0
11/4/2024 10:45	52403	GRPA_T2	219	321	102	0.52	0.74	0.22	0	0	0	0	0	0	0	0
11/4/2024 10:45	52401	GRPA_T2	7	52	45	0.31	0.2	-0.11	0	0	0	0	0	0	0	0
11/4/2024 10:45	52402	GRPA_T2	88	118	30	0.36	0.46	0.1	-1.78	-1.74	0	0	0	0	0	0
11/4/2024 10:46	52404	GRPA_T2	3	3	0	0.37	0.43	0.06	0	0	0	0	0	0	0	0
11/4/2024 10:46	59302	MCAL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/4/2024 10:46	59301	MCAL_T1	3	6	3	0.57	0.67	0.1	-1.58	-1.57	1	1	0	600	600	0
11/4/2024 10:46	53501	EVIL_T2	4	3	-1	0.63	0.87	0.24	-0.16	0.05	2	2	0	1200	1200	0
11/4/2024 10:46	52403	GRPA_T2	219	321	102	0.52	0.74	0.22	0	0	0	0	0	0	0	0
11/4/2024 10:46	52401	GRPA_T2	7	52	45	0.31	0.2	-0.11	-0.36	-0.37	0	0	0	0	0	0
11/4/2024 10:46	52402	GRPA_T2	88	118	30	0.36	0.46	0.1	-0.89	-0.87	0	0	0	0	0	0
11/4/2024 10:47	58401	MORO_T1	0	1	1	0	0.1	0.1	-0.76	-0.76	1	1	0	600	600	0
11/4/2024 10:47	53501	EVIL_T2	4	3	-1	0.63	0.87	0.24	-0.33	0.1	4	4	0	2400	2400	0
11/4/2024 10:48	52404	GRPA_T2	3	3	0	0.37	0.43	0.06	0	0	0	0	0	0	0	0
11/4/2024 10:48	52403	GRPA_T2	219	321	102	0.52	0.74	0.22	-0.03	-0.06	0	0	0	0	0	0
11/4/2024 10:48	52401	GRPA_T2	7	52	45	0.31	0.2	-0.11	0	0	0	0	0	0	0	0
11/4/2024 10:48	52402	GRPA_T2	88	118	30	0.36	0.46	0.1	0	0	0	0	0	0	0	0
11/4/2024 10:49	59301	MCAL_T1	3	6	3	0.57	0.67	0.1	-1.58	-1.57	1	1	0	600	600	0
11/4/2024 10:49	59302	MCAL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/4/2024 10:50	55001	NEWP_T1	1	3	2	0.1	0.73	0.63	0	0	0	0	0	0	0	0
11/4/2024 10:50	58401	MORO_T1	0	1	1	0	0.1	0.1	-3.02	-3.03	4	4	0	2400	2400	0
11/4/2024 10:50	55002	NEWP_T1	7	10	3	0.93	0.97	0.04	0	0	0	0	0	0	0	0
11/4/2024 10:51	22404	MORG_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/4/2024 10:51	22401	MORG_T2	1	14	13	0.7	0.17	-0.53	0	0	0	0	0	0	0	0
11/4/2024 10:51	55002	NEWP_T1	7	10	3	0.93	0.97	0.04	0	0	0	0	0	0	0	0
11/4/2024 10:51	22405	MORG_T2	1	1	0	0.7	0.6	-0.1	-0.2	-0.22	0	0	0	0	0	0
11/4/2024 10:51	55001	NEWP_T1	1	3	2	0.1	0.73	0.63	-0.38	-0.37	0	0	0	0	0	0
11/4/2024 10:51	22406	MORG_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/4/2024 10:52	55002	NEWP_T1	7	10	3	0.93	0.97	0.04	-0.24	-0.23	0	0	0	0	0	0
11/4/2024 10:52	55001	NEWP_T1	1	3	2	0.1	0.73	0.63	-0.38	-0.37	0	0	0	0	0	0
11/4/2024 10:53	45303	WBER_T2	1	1	0	9.6	9.6	0	0	0	0	0	0	0	0	0
11/4/2024 10:53	45302	WBER_T2	0	0	0	0	0	0	0.7	0.62	0	0	0	0	0	0
11/4/2024 10:53	60101	COCA_T1	0	1	1	0	0.1	0.1	0.27	0.31	0	0	0	0	0	0
11/4/2024 10:54	55002	NEWP_T1	7	10	3	0.93	0.97	0.04	-0.24	-0.23	0	0	0	0	0	0
11/4/2024 10:54	43304	WATS_T2	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
11/4/2024 10:54	29402	BELT_T1	2	2	0	4.3	4.5	0.2	0	0	0	0	0	0	0	0
11/4/2024 10:54	55001	NEWP_T1	1	3	2	0.1	0.73	0.63	0	0	0	0	0	0	0	0
11/4/2024 10:54	29401	BELT_T1	37	60	23	0.18	0.19	0.01	0	0	1	1	0	900	900	0
11/4/2024 10:55	43301	WATS_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
11/4/2024 10:57	10801	CHHI_T1	0	7	7	0	0.32	0.32	-1.42	-1.39	2	2	0	1500	1500	0
11/4/2024 11:01	23901	EFMO_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
11/4/2024 11:05	65005	NEFF_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/4/2024 11:05	65003	NEFF_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/4/2024 11:05	65004	NEFF_T2	1	1	0	0.1	0.2	0.1	-1.04	-1.08	0	0	0	0	0	0
11/4/2024 11:07	65005	NEFF_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/4/2024 11:07	65003	NEFF_T2	1	1	0	0.3	0.4	0.1	-1.6	-1.67	2	2	0	1800	1800	0
11/4/2024 11:07	65004	NEFF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/4/2024 11:09	43402	BENT_T1	4	3	-1	0.55	0.83	0.28	-0.87	-0.86	1	1	0	900	900	0
11/4/2024 11:10	24902	WHHA_T1	2	1	-1	0.8	0	-0.8	0.72	0.71	0	0	0	0	0	0
11/4/2024 11:11	42701	AUGU_T1	7	13	6	0.41	0.35	-0.06	0	0	2	2	0	1800	1800	0
11/4/2024 11:11	43402	BENT_T1	4	3	-1	0.55	0.83	0.28	-0.87	-0.86	1	1	0	900	900	0
11/4/2024 11:11	62607	ENGL_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
11/4/2024 11:11	62605	ENGL_T1	3	3	0	0.27	0.23	-0.04	-0.83	-0.81	0	0	0	0	0	0
11/4/2024 11:11	62606	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/4/2024 11:12	10101	ALLE_T3	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
11/4/2024 11:12	62607	ENGL_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
11/4/2024 11:12	11203	ELHE_T1	0	0	0	0	0	0	1.2	1.41	0	0	0	0	0	0
11/4/2024 11:12	11205	ELHE_T1	1	1	0	6.4	0	-6.4	0	0	0	0	0	0	0	0
11/4/2024 11:12	62604	ENGL_T1	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
11/4/2024 11:12	24902	WHHA_T1	2	1	-1	0.8	0	-0.8	0.72	0.71	0	0	0	0	0	0
11/4/2024 11:12	62605	ENGL_T1	3	3	0	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
11/4/2024 11:12	62606	ENGL_T1	1	0	-1	0.1	0	-0.1	-0.86	-0.89	1	1	0	900	900	0
11/4/2024 11:12	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 11:13	62606	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/4/2024 11:13	62607	ENGL_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
11/4/2024 11:13	17802	GILB_T1	1	1	0	0.3	0.4	0.1	0.1	0.07	0	0	0	0	0	0
11/4/2024 11:13	62605	ENGL_T1	3	3	0	0.27	0.23	-0.04	-0.83	-0.81	0	0	0	0	0	0
11/4/2024 11:14	62606	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/4/2024 11:14	10801	CHHI_T1	3	6	3	0.43	0.33	-0.1	-1.39	-1.35	2	2	0	1500	1500	0
11/4/2024 11:14	62607	ENGL_T1	1	1	0	0.9	0.8	-0.1	-2.53	-2.54	0	0	0	0	0	0
11/4/2024 11:14	62605	ENGL_T1	3	3	0	0.27	0.23	-0.04	-1.66	-1.62	0	0	0	0	0	0
11/4/2024 11:15	62607	ENGL_T1	1	4	3	0.8	0.35	-0.45	-1.69	-1.69	0	0	0	0	0	0
11/4/2024 11:15	62605	ENGL_T1	2	3	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/4/2024 11:16	50701	SMEC_T1	2	2	0	0.3	0.55	0.25	0.06	0.05	0	0	0	0	0	0
11/4/2024 11:16	62605	ENGL_T1	2	3	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/4/2024 11:16	62607	ENGL_T1	1	4	3	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
11/4/2024 11:16	62606	ENGL_T1	0	0	0	0	0	0	-0.86	-0.89	1	1	0	900	900	0
11/4/2024 11:17	52401	GRPA_T2	50	99	49	0.2	0.26	0.06	0	0	0	0	0	0	0	0
11/4/2024 11:17	64305	LINC_T1	1	5	4	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
11/4/2024 11:17	62607	ENGL_T1	1	4	3	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
11/4/2024 11:17	57702	PAXT_T1	1	1	0	0.2	0.4	0.2	-0.04	-0.05	0	0	0	0	0	0
11/4/2024 11:17	52402	GRPA_T2	114	218	104	0.46	0.69	0.23	0	0	0	0	0	0	0	0
11/4/2024 11:17	62605	ENGL_T1	2	3	1	0.3	0.4	0.1	-0.83	-0.81	0	0	0	0	0	0
11/4/2024 11:17	52403	GRPA_T2	321	370	49	0.74	0.62	-0.12	-0.08	-0.05	0	0	0	0	0	0
11/4/2024 11:17	52404	GRPA_T2	2	17	15	0.6	0.34	-0.26	0	0	0	0	0	0	0	0
11/4/2024 11:17	64303	LINC_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
11/4/2024 11:18	64305	LINC_T1	1	5	4	0.7	0.6	-0.1	-0.11	-0.18	0	0	0	0	0	0
11/4/2024 11:21	15703	TANN_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
11/4/2024 11:21	15702	TANN_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
11/4/2024 11:23	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.41	0	0	0	0	0	0
11/4/2024 11:23	15703	TANN_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
11/4/2024 11:25	29401	BELT_T1	48	56	8	0.18	0.18	0	0	0	1	1	0	900	900	0
11/4/2024 11:25	15703	TANN_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
11/4/2024 11:25	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.41	0	0	0	0	0	0
11/4/2024 11:25	29402	BELT_T1	2	2	0	4.3	4.6	0.3	0	0	0	0	0	0	0	0
11/4/2024 11:26	44801	EDAN_T2	34	60	26	0.29	0.29	0	0	0	0	0	0	0	0	0
11/4/2024 11:26	44802	EDAN_T2	5	9	4	0.22	0.31	0.09	-0.79	-0.8	0	0	0	0	0	0
11/4/2024 11:27	51108	CARL_T1	3	22	19	0.33	0.17	-0.16	0	0	0	0	0	0	0	0
11/4/2024 11:27	51109	CARL_T1	1	10	9	0.5	0.16	-0.34	0	0	0	0	0	0	0	0
11/4/2024 11:27	51101	CARL_T1	11	33	22	0.6	0.29	-0.31	0	0	0	0	0	0	0	0
11/4/2024 11:27	51107	CARL_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/4/2024 11:27	51102	CARL_T1	145	151	6	0.36	0.44	0.08	0	0	0	0	0	0	0	0
11/4/2024 11:27	51104	CARL_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
11/4/2024 11:28	51109	CARL_T1	1	10	9	0.5	0.16	-0.34	0.28	0.27	0	0	0	0	0	0
11/4/2024 11:28	51104	CARL_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
11/4/2024 11:28	51107	CARL_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/4/2024 11:28	44802	EDAN_T2	5	9	4	0.22	0.31	0.09	-2.37	-2.4	0	0	0	0	0	0
11/4/2024 11:28	51108	CARL_T1	3	22	19	0.33	0.17	-0.16	0	0	0	0	0	0	0	0
11/4/2024 11:28	44801	EDAN_T2	34	60	26	0.29	0.29	0	0	0	0	0	0	0	0	0
11/4/2024 11:28	51102	CARL_T1	145	151	6	0.36	0.44	0.08	0	0	0	0	0	0	0	0
11/4/2024 11:28	51101	CARL_T1	11	33	22	0.6	0.29	-0.31	0	0	0	0	0	0	0	0
11/4/2024 11:28	64801	MONE_T2	1	1	0	0.9	1.1	0.2	-0.01	-0.01	0	0	0	0	0	0
11/4/2024 11:28	64802	MONE_T2	1	57	56	0.2	0.26	0.06	0	0	0	0	0	0	0	0
11/4/2024 11:29	51107	CARL_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/4/2024 11:29	51101	CARL_T1	11	33	22	0.6	0.29	-0.31	0	0	0	0	0	0	0	0
11/4/2024 11:29	44801	EDAN_T2	34	60	26	0.29	0.29	0	0	0	0	0	0	0	0	0
11/4/2024 11:29	51104	CARL_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
11/4/2024 11:29	44802	EDAN_T2	5	9	4	0.22	0.31	0.09	-0.79	-0.8	0	0	0	0	0	0
11/4/2024 11:29	51109	CARL_T1	1	10	9	0.5	0.16	-0.34	0.28	0.27	0	0	0	0	0	0
11/4/2024 11:29	51108	CARL_T1	3	22	19	0.33	0.17	-0.16	0	0	0	0	0	0	0	0
11/4/2024 11:29	51102	CARL_T1	145	151	6	0.36	0.44	0.08	0	0	0	0	0	0	0	0
11/4/2024 11:30	44802	EDAN_T2	9	9	0	0.3	0.26	-0.04	-0.79	-0.8	0	0	0	0	0	0
11/4/2024 11:30	44801	EDAN_T2	60	35	-25	0.29	0.33	0.04	-0.38	-0.39	0	0	0	0	0	0
11/4/2024 11:31	11202	ELHE_T2	0	0	0	0	0	0	0.39	0.36	1	1	0	1200	1200	0
11/4/2024 11:32	40501	CRES_T2	11	11	0	0.46	0.42	-0.04	0	0	0	0	0	0	0	0
11/4/2024 11:32	40502	CRES_T2	46	42	-4	0.33	0.3	-0.03	-0.26	-0.29	0	0	0	0	0	0
11/4/2024 11:34	50701	SMEC_T1	0	2	2	0	0.55	0.55	0.05	0.12	0	0	0	0	0	0
11/4/2024 11:34	24203	PROV_T4	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/4/2024 11:34	24202	PROV_T4	4	6	2	0.15	0.4	0.25	0	0	1	1	0	1200	1200	0
11/4/2024 11:35	13303	ORVI_T1	0	0	0	0	0	0	0.93	0.96	0	0	0	0	0	0
11/4/2024 11:35	50701	SMEC_T1	0	2	2	0	0.55	0.55	0.05	0.12	0	0	0	0	0	0
11/4/2024 11:37	15201	SFAR_T1	0	0	0	0	0	0	0.02	-0.01	1	1	0	1200	1200	0
11/4/2024 11:38	58001	WCAR_T1	5	7	2	1.5	1.26	-0.24	0	0	0	0	0	0	0	0
11/4/2024 11:38	58003	WCAR_T1	14	17	3	0.26	0.28	0.02	0.93	0.92	0	0	0	0	0	0
11/4/2024 11:40	45802	HEGI_T2	22	17	-5	0.44	0.44	0	0	0	0	0	0	0	0	0
11/4/2024 11:40	58003	WCAR_T1	14	17	3	0.26	0.28	0.02	2.79	2.75	0	0	0	0	0	0
11/4/2024 11:40	10707	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 11:40	10705	CATA_T2	1	1	0	1.8	1.9	0.1	-1.98	-1.96	2	2	0	1800	1800	0
11/4/2024 11:40	58001	WCAR_T1	5	7	2	1.5	1.26	-0.24	0	0	0	0	0	0	0	0
11/4/2024 11:40	67401	WAKE_T2	8	23	15	0.41	0.27	-0.14	-1.15	-1.1	0	0	0	0	0	0
11/4/2024 11:40	67402	WAKE_T2	1	2	1	0.1	0.2	0.1	0.45	0.44	1	1	0	600	600	0
11/4/2024 11:40	10702	CATA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/4/2024 11:41	10705	CATA_T2	1	1	0	1.8	1.9	0.1	-0.99	-0.98	1	1	0	900	900	0
11/4/2024 11:41	10707	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 11:41	10702	CATA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/4/2024 11:42	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 11:42	10705	CATA_T2	1	1	0	1.8	1.9	0.1	-0.99	-0.98	1	1	0	900	900	0
11/4/2024 11:42	10702	CATA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/4/2024 11:42	10707	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 11:43	54501	ENOL_T2	4	4	0	0.35	0.53	0.18	0	0	0	0	0	0	0	0
11/4/2024 11:43	54505	ENOL_T2	2	2	0	1.15	1.15	0	-0.68	-0.71	0	0	0	0	0	0
11/4/2024 11:43	54504	ENOL_T2	1	1	0	0.3	0.6	0.3	-0.52	-0.52	0	0	0	0	0	0
11/4/2024 11:43	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/4/2024 11:43	54502	ENOL_T2	6	60	54	0.3	0.19	-0.11	0	0	0	0	0	0	0	0
11/4/2024 11:44	54501	ENOL_T2	4	4	0	0.35	0.53	0.18	0	0	0	0	0	0	0	0
11/4/2024 11:44	54502	ENOL_T2	6	60	54	0.3	0.19	-0.11	0	0	0	0	0	0	0	0
11/4/2024 11:44	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/4/2024 11:44	10707	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 11:44	10903	COOP_T2	27	2	-25	0.23	0.6	0.37	0.02	0.06	1	1	0	600	600	0
11/4/2024 11:44	10901	COOP_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/4/2024 11:44	10702	CATA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/4/2024 11:44	10705	CATA_T2	1	1	0	1.8	1.9	0.1	-0.99	-0.98	1	1	0	900	900	0
11/4/2024 11:44	54505	ENOL_T2	2	2	0	1.15	1.15	0	-0.68	-0.71	0	0	0	0	0	0
11/4/2024 11:44	54504	ENOL_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
11/4/2024 11:45	40502	CRES_T2	42	26	-16	0.3	0.3	0	-0.29	-0.34	0	0	0	0	0	0
11/4/2024 11:45	40501	CRES_T2	11	9	-2	0.42	0.28	-0.14	0	0	0	0	0	0	0	0
11/4/2024 11:46	44502	HAMI_T2	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
11/4/2024 11:46	44505	HAMI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 11:47	44505	HAMI_T2	0	1	1	0	0.1	0.1	0.34	0.37	0	0	0	0	0	0
11/4/2024 11:47	44502	HAMI_T2	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
11/4/2024 11:49	44505	HAMI_T2	0	1	1	0	0.1	0.1	0.34	0.37	0	0	0	0	0	0
11/4/2024 11:49	44502	HAMI_T2	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
11/4/2024 11:50	66503	MOJO_T2	0	0	0	0	0	0	-0.11	-0.16	0	0	0	0	0	0
11/4/2024 11:51	66504	SMAN_T2	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
11/4/2024 11:51	66502	SMAN_T2	5	5	0	0.16	0.2	0.04	0	0	0	0	0	0	0	0
11/4/2024 11:51	66505	SMAN_T2	0	0	0	0	0	0	0.37	0.39	1	1	0	900	900	0
11/4/2024 11:51	66501	SMAN_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
11/4/2024 11:53	24901	WHHA_T1	0	1	1	0	1	1	0.6	0.59	0	0	0	0	0	0
11/4/2024 11:53	59201	THOM_T1	21	41	20	0.34	0.41	0.07	0	0	0	0	0	0	0	0
11/4/2024 11:53	66501	SMAN_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
11/4/2024 11:53	66504	SMAN_T2	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
11/4/2024 11:53	22404	MORG_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/4/2024 11:53	22405	MORG_T2	2	5	3	0.25	0.22	-0.03	-0.2	-0.19	0	0	0	0	0	0
11/4/2024 11:53	66502	SMAN_T2	5	5	0	0.16	0.2	0.04	0.15	0.08	0	0	0	0	0	0
11/4/2024 11:53	59202	THOM_T1	218	453	235	0.26	0.35	0.09	0	0	0	0	0	0	0	0
11/4/2024 11:53	22406	MORG_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/4/2024 11:53	22401	MORG_T2	7	54	47	0.21	0.23	0.02	0	0	0	0	0	0	0	0
11/4/2024 11:54	67602	WARW_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
11/4/2024 11:55	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/4/2024 11:56	51103	CARL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 11:56	51109	CARL_T1	6	36	30	0.17	0.18	0.01	0	0	0	0	0	0	0	0
11/4/2024 11:56	51102	CARL_T1	146	176	30	0.41	0.61	0.2	0	0	0	0	0	0	0	0
11/4/2024 11:56	67602	WARW_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
11/4/2024 11:56	51107	CARL_T1	1	7	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/4/2024 11:56	51104	CARL_T1	6	26	20	0.15	0.15	0	0	0	0	0	0	0	0	0
11/4/2024 11:56	51101	CARL_T1	28	138	110	0.31	0.19	-0.12	0	0	0	0	0	0	0	0
11/4/2024 11:56	51108	CARL_T1	21	140	119	0.15	0.18	0.03	0	0	0	0	0	0	0	0
11/4/2024 11:57	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/4/2024 11:57	15001	BLMO_T1	2	6	4	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
11/4/2024 11:58	41601	CLEV_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/4/2024 11:58	41602	CLEV_T1	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
11/4/2024 11:59	41601	CLEV_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/4/2024 11:59	15001	BLMO_T1	2	6	4	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
11/4/2024 11:59	41602	CLEV_T1	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
11/4/2024 12:05	64904	MILL_T1	1	0	-1	0.3	0	-0.3	0.41	0.37	0	0	0	0	0	0
11/4/2024 12:05	64901	MILL_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/4/2024 12:06	66504	SMAN_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
11/4/2024 12:06	66501	SMAN_T2	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
11/4/2024 12:06	14801	TREI_T2	1	2	1	1.1	0.7	-0.4	0.3	0.31	0	0	0	0	0	0
11/4/2024 12:06	14802	TREI_T2	1	3	2	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
11/4/2024 12:06	66502	SMAN_T2	5	1	-4	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/4/2024 12:07	57403	SPAN_T1	234	258	24	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
11/4/2024 12:07	66501	SMAN_T2	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
11/4/2024 12:07	10705	CATA_T2	1	2	1	1.6	0.95	-0.65	-0.98	-0.99	1	1	0	900	900	0
11/4/2024 12:07	10702	CATA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/4/2024 12:07	17002	RIRO_T2	3	3	0	0.3	0.5	0.2	0.64	0.59	0	0	0	0	0	0
11/4/2024 12:07	66502	SMAN_T2	5	1	-4	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/4/2024 12:07	66504	SMAN_T2	1	1	0	0.4	0.7	0.3	-0.49	-0.43	0	0	0	0	0	0
11/4/2024 12:07	10707	CATA_T2	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
11/4/2024 12:07	57401	SPAN_T1	57	54	-3	0.29	0.31	0.02	0.13	0.14	0	0	0	0	0	0
11/4/2024 12:08	57403	SPAN_T1	234	258	24	0.28	0.26	-0.02	0.05	0.06	0	0	0	0	0	0
11/4/2024 12:08	57401	SPAN_T1	57	54	-3	0.29	0.31	0.02	0.13	0.14	0	0	0	0	0	0
11/4/2024 12:09	57403	SPAN_T1	234	258	24	0.28	0.26	-0.02	0.05	0.06	0	0	0	0	0	0
11/4/2024 12:09	57401	SPAN_T1	57	54	-3	0.29	0.31	0.02	0	0	0	0	0	0	0	0
11/4/2024 12:09	57402	SPAN_T2	6	6	0	0.37	0.33	-0.04	-0.55	-0.56	0	0	0	0	0	0
11/4/2024 12:10	57401	SPAN_T1	57	54	-3	0.29	0.31	0.02	0.13	0.14	0	0	0	0	0	0
11/4/2024 12:10	57402	SPAN_T2	6	6	0	0.37	0.33	-0.04	-0.55	-0.56	0	0	0	0	0	0
11/4/2024 12:10	57403	SPAN_T1	234	258	24	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
11/4/2024 12:14	63803	HEMP_T1	2	8	6	0.3	0.39	0.09	0.13	0.16	0	0	0	0	0	0
11/4/2024 12:14	63802	HEMP_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/4/2024 12:14	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
11/4/2024 12:14	63801	HEMP_T1	1	6	5	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
11/4/2024 12:16	17802	GILB_T1	3	6	3	0.97	0.73	-0.24	0.11	0.08	0	0	0	0	0	0
11/4/2024 12:16	64305	LINC_T1	3	1	-2	0.47	1	0.53	-0.25	-0.2	0	0	0	0	0	0
11/4/2024 12:17	53301	GRAT_T1	0	0	0	0	0	0	0	2	2	2	0	900	900	0
11/4/2024 12:17	63803	HEMP_T1	8	3	-5	0.39	0.23	-0.16	0.13	0.16	0	0	0	0	0	0
11/4/2024 12:17	63801	HEMP_T1	6	2	-4	0.43	0.55	0.12	0	0	0	0	0	0	0	0
11/4/2024 12:17	63802	HEMP_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/4/2024 12:17	63804	HEMP_T1	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
11/4/2024 12:18	63803	HEMP_T1	8	3	-5	0.39	0.23	-0.16	0	0	0	0	0	0	0	0
11/4/2024 12:18	63804	HEMP_T1	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
11/4/2024 12:18	63802	HEMP_T1	2	0	-2	0.2	0	-0.2	-0.68	0.22	0	0	0	0	0	0
11/4/2024 12:18	63801	HEMP_T1	6	2	-4	0.43	0.55	0.12	0	0	0	0	0	0	0	0
11/4/2024 12:21	54001	SDLE_T1	84	150	66	0.36	0.31	-0.05	0	0	0	0	0	0	0	0
11/4/2024 12:22	54001	SDLE_T1	84	150	66	0.36	0.31	-0.05	0	0	0	0	0	0	0	0
11/4/2024 12:23	61701	ELIZ_T1	2	2	0	3.5	2.9	-0.6	0.3	0.41	0	0	0	0	0	0
11/4/2024 12:23	54001	SDLE_T1	84	150	66	0.36	0.31	-0.05	0	0	0	0	0	0	0	0
11/4/2024 12:23	57402	SPAN_T2	5	6	1	0.28	0.32	0.04	-0.56	-0.55	0	0	0	0	0	0
11/4/2024 12:24	54001	SDLE_T1	84	150	66	0.36	0.31	-0.05	0	0	0	0	0	0	0	0
11/4/2024 12:24	57401	SPAN_T1	36	50	14	0.36	0.32	-0.04	0	0	0	0	0	0	0	0
11/4/2024 12:24	57403	SPAN_T1	183	242	59	0.28	0.27	-0.01	0.06	0.05	0	0	0	0	0	0
11/4/2024 12:25	54001	SDLE_T1	84	150	66	0.36	0.31	-0.05	0	0	0	0	0	0	0	0
11/4/2024 12:25	57403	SPAN_T1	183	242	59	0.28	0.27	-0.01	0.12	0.1	0	0	0	0	0	0
11/4/2024 12:25	57401	SPAN_T1	36	50	14	0.36	0.32	-0.04	0	0	0	0	0	0	0	0
11/4/2024 12:26	57403	SPAN_T1	183	242	59	0.28	0.27	-0.01	0.06	0.05	0	0	0	0	0	0
11/4/2024 12:26	57401	SPAN_T1	36	50	14	0.36	0.32	-0.04	0	0	0	0	0	0	0	0
11/4/2024 12:26	20401	ASHF_T2	4	11	7	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
11/4/2024 12:26	20402	ASHF_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/4/2024 12:26	20403	ASHF_T2	37	70	33	0.3	0.28	-0.02	1.97	1.83	0	0	0	0	0	0
11/4/2024 12:28	20402	ASHF_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/4/2024 12:28	20401	ASHF_T2	4	11	7	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
11/4/2024 12:28	20403	ASHF_T2	37	70	33	0.3	0.28	-0.02	0.98	0.91	0	0	0	0	0	0
11/4/2024 12:29	45502	DERR_T2	0	0	0	0	0	0	0.16	0.16	1	1	0	300	300	0
11/4/2024 12:29	62604	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 12:29	62601	ENGL_T1	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
11/4/2024 12:29	45501	DERR_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
11/4/2024 12:29	62606	ENGL_T1	33	58	25	0.11	0.12	0.01	0	0	0	0	0	0	0	0
11/4/2024 12:29	62605	ENGL_T1	0	10	10	0	0.23	0.23	0	0	0	0	0	0	0	0
11/4/2024 12:29	62607	ENGL_T1	2	4	2	0.3	0.43	0.13	0	0	0	0	0	0	0	0
11/4/2024 12:30	14802	TREI_T2	1	2	1	0.1	0.35	0.25	0.32	0.31	0	0	0	0	0	0
11/4/2024 12:30	14801	TREI_T2	2	3	1	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
11/4/2024 12:31	22903	HARW_T1	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/4/2024 12:31	22901	HARW_T1	0	1	1	0	0	0	-0.3	-0.23	1	1	0	1200	1200	0
11/4/2024 12:33	54701	NEBL_T1	9	5	-4	0.78	0.92	0.14	0	0	0	0	0	0	0	0
11/4/2024 12:36	52402	GRPA_T2	182	168	-14	0.51	0.47	-0.04	0	0	0	0	0	0	0	0
11/4/2024 12:36	59301	MCAL_T1	53	12	-41	0.35	0.6	0.25	-1.66	-1.59	1	1	0	600	600	0
11/4/2024 12:36	52401	GRPA_T2	7	3	-4	0.47	0.5	0.03	0	0	0	0	0	0	0	0
11/4/2024 12:36	58402	MORO_T1	3	4	1	0.43	0.23	-0.2	0	0	0	0	0	0	0	0
11/4/2024 12:36	58401	MORO_T1	0	1	1	0	0.1	0.1	-0.81	-0.79	1	1	0	600	600	0
11/4/2024 12:36	54701	NEBL_T1	9	5	-4	0.78	0.92	0.14	0	0	0	0	0	0	0	0
11/4/2024 12:36	52403	GRPA_T2	348	274	-74	0.64	0.57	-0.07	-0.13	-0.1	0	0	0	0	0	0
11/4/2024 12:36	59302	MCAL_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/4/2024 12:36	52404	GRPA_T2	2	2	0	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
11/4/2024 12:37	58401	MORO_T1	0	1	1	0	0.1	0.1	-0.81	-0.79	1	1	0	600	600	0
11/4/2024 12:37	58402	MORO_T1	3	4	1	0.43	0.23	-0.2	0	0	0	0	0	0	0	0
11/4/2024 12:39	57401	SPAN_T1	49	21	-28	0.32	0.47	0.15	0.15	0.17	0	0	0	0	0	0
11/4/2024 12:39	57403	SPAN_T1	238	170	-68	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
11/4/2024 12:39	67503	WEWI_T2	1	3	2	8.6	3.27	-5.33	0	0	0	0	0	0	0	0
11/4/2024 12:39	67502	WEWI_T2	18	33	15	0.39	0.31	-0.08	-0.4	-0.42	0	0	0	0	0	0
11/4/2024 12:40	67503	WEWI_T2	1	3	2	8.6	3.27	-5.33	-0.71	-0.81	0	0	0	0	0	0
11/4/2024 12:40	67502	WEWI_T2	18	33	15	0.39	0.31	-0.08	-0.4	-0.42	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/4/2024 12:41	67502	WEWI_T2	18	33	15	0.39	0.31	-0.08	-0.4	-0.42	0	0	0	0	0	0
11/4/2024 12:41	46002	BERW_T2	3	0	-3	0.23	0	-0.23	-0.73	-0.71	1	1	0	900	900	0
11/4/2024 12:41	46004	BERW_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/4/2024 12:41	57401	SPAN_T1	49	21	-28	0.32	0.47	0.15	0.3	0.33	0	0	0	0	0	0
11/4/2024 12:41	57403	SPAN_T1	238	170	-68	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
11/4/2024 12:41	67503	WEWI_T2	1	3	2	8.6	3.27	-5.33	0	0	0	0	0	0	0	0
11/4/2024 12:42	64802	MONE_T2	1	4	3	0.3	0.43	0.13	-0.01	-0.01	0	0	0	0	0	0
11/4/2024 12:42	46002	BERW_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
11/4/2024 12:42	46001	BERW_T1	3	3	0	0.4	0.43	0.03	0.86	0.98	0	0	0	0	0	0
11/4/2024 12:42	57403	SPAN_T1	238	170	-68	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
11/4/2024 12:42	46004	BERW_T2	2	0	-2	0.4	0	-0.4	-0.23	-0.21	0	0	0	0	0	0
11/4/2024 12:42	57401	SPAN_T1	49	21	-28	0.32	0.47	0.15	0.3	0.33	0	0	0	0	0	0
11/4/2024 12:42	57402	SPAN_T2	6	5	-1	0.32	0.24	-0.08	0	0	0	0	0	0	0	0
11/4/2024 12:42	67502	WEWI_T2	18	33	15	0.39	0.31	-0.08	-0.2	-0.21	0	0	0	0	0	0
11/4/2024 12:42	67501	WEWI_T1	5	5	0	0.48	0.52	0.04	-1.2	-1.04	0	0	0	0	0	0
11/4/2024 12:42	46005	BERW_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/4/2024 12:42	67503	WEWI_T2	1	3	2	8.6	3.27	-5.33	0	0	0	0	0	0	0	0
11/4/2024 12:43	67503	WEWI_T2	1	3	2	8.6	3.27	-5.33	0	0	0	0	0	0	0	0
11/4/2024 12:43	67502	WEWI_T2	18	33	15	0.39	0.31	-0.08	-0.4	-0.42	0	0	0	0	0	0
11/4/2024 12:45	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 12:46	63501	HEID_TBK1-2	2	2	0	0.45	0.5	0.05	-0.03	0.05	1	1	0	900	900	0
11/4/2024 12:46	59301	MCAL_T1	8	12	4	0.61	0.61	0	0	0	0	0	0	0	0	0
11/4/2024 12:47	52401	GRPA_T2	3	7	4	0.4	0.37	-0.03	-0.28	-0.3	0	0	0	0	0	0
11/4/2024 12:47	52402	GRPA_T2	137	186	49	0.38	0.51	0.13	0	0	0	0	0	0	0	0
11/4/2024 12:47	52403	GRPA_T2	268	196	-72	0.51	0.52	0.01	0	0	0	0	0	0	0	0
11/4/2024 12:47	52404	GRPA_T2	2	2	0	0.65	0.85	0.2	0	0	0	0	0	0	0	0
11/4/2024 12:48	64204	KINZ_T1	54	63	9	0.52	0.51	-0.01	0	0	0	0	0	0	0	0
11/4/2024 12:48	52402	GRPA_T2	137	186	49	0.38	0.51	0.13	0	0	0	0	0	0	0	0
11/4/2024 12:48	52404	GRPA_T2	2	2	0	0.65	0.85	0.2	0	0	0	0	0	0	0	0
11/4/2024 12:48	64203	KINZ_T1	0	0	0	0	0	0	1.58	1.02	1	2	1	600	900	300
11/4/2024 12:48	52403	GRPA_T2	268	196	-72	0.51	0.52	0.01	-0.13	-0.1	0	0	0	0	0	0
11/4/2024 12:48	52401	GRPA_T2	3	7	4	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
11/4/2024 12:49	54701	NEBL_T1	5	5	0	0.72	0.98	0.26	0	0	0	0	0	0	0	0
11/4/2024 12:50	44902	SCOT_T2	21	551	530	0.18	0.29	0.11	-0.86	-0.86	0	0	0	0	0	0
11/4/2024 12:50	44903	SCOT_T1	0	54	54	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 12:50	44904	SCOT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/4/2024 12:50	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 12:50	44901	SCOT_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
11/4/2024 12:51	65501	MOJO_T1	0	0	0	0	0	0	-1.02	-1.1	1	1	0	900	900	0
11/4/2024 12:51	44901	SCOT_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
11/4/2024 12:51	59301	MCAL_T1	8	12	4	0.61	0.61	0	-1.59	-1.61	1	1	0	600	600	0
11/4/2024 12:51	44902	SCOT_T2	21	551	530	0.18	0.29	0.11	-0.86	-0.86	0	0	0	0	0	0
11/4/2024 12:52	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 12:52	44904	SCOT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/4/2024 12:52	44903	SCOT_T1	0	54	54	0	0.1	0.1	0.39	0.49	0	0	0	0	0	0
11/4/2024 12:52	44901	SCOT_T2	0	6	6	0	0.2	0.2	0.18	0.14	0	0	0	0	0	0
11/4/2024 12:52	44902	SCOT_T2	21	551	530	0.18	0.29	0.11	0	0	0	0	0	0	0	0
11/4/2024 12:52	59301	MCAL_T1	8	12	4	0.61	0.61	0	-1.59	-1.61	1	1	0	600	600	0
11/4/2024 12:54	59202	THOM_T1	45	43	-2	0.3	0.31	0.01	0	0	0	0	0	0	0	0
11/4/2024 12:54	44904	SCOT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/4/2024 12:54	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 12:54	59201	THOM_T1	10	12	2	0.22	0.28	0.06	0	0	0	0	0	0	0	0
11/4/2024 12:54	44903	SCOT_T1	0	54	54	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 12:55	44904	SCOT_T1	0	1	1	0	0.2	0.2	0.77	0.68	0	0	0	0	0	0
11/4/2024 12:55	46001	BERW_T1	3	1	-2	0.43	0.1	-0.33	0.98	0.95	0	0	0	0	0	0
11/4/2024 12:55	44902	SCOT_T2	21	551	530	0.18	0.29	0.11	0	0	0	0	0	0	0	0
11/4/2024 12:55	44903	SCOT_T1	0	54	54	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 12:55	44901	SCOT_T2	0	6	6	0	0.2	0.2	0.18	0.14	0	0	0	0	0	0
11/4/2024 12:57	46001	BERW_T1	3	1	-2	0.43	0.1	-0.33	0.98	0.95	0	0	0	0	0	0
11/4/2024 12:59	67502	WEWI_T2	33	15	-18	0.31	0.35	0.04	-0.21	-0.24	0	0	0	0	0	0
11/4/2024 12:59	48901	FOSP_T2	0	0	0	0	0	0	-0.04	0	1	1	0	600	600	0
11/4/2024 12:59	67503	WEWI_T2	3	1	-2	3.27	9	5.73	0	0	0	0	0	0	0	0
11/4/2024 12:59	48902	FOSP_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/4/2024 12:59	64802	MONE_T2	3	2	-1	0.43	0.55	0.12	-0.01	-0.01	0	0	0	0	0	0
11/4/2024 13:01	67503	WEWI_T2	1	1	0	8.9	9	0.1	-0.81	-0.12	0	0	0	0	0	0
11/4/2024 13:01	67502	WEWI_T2	9	15	6	0.42	0.33	-0.09	0	0	0	0	0	0	0	0
11/4/2024 13:03	67502	WEWI_T2	9	15	6	0.42	0.33	-0.09	-0.21	-0.24	0	0	0	0	0	0
11/4/2024 13:03	67503	WEWI_T2	1	1	0	8.9	9	0.1	0	0	0	0	0	0	0	0
11/4/2024 13:03	48902	FOSP_T2	0	1	1	0	0.2	0.2	1.02	0.36	0	0	0	0	0	0
11/4/2024 13:05	54601	SUMM_T2	8	10	2	0.53	0.56	0.03	-1.69	-1.71	2	2	0	2100	2100	0
11/4/2024 13:05	12803	MICK_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
11/4/2024 13:05	12801	MICK_T1	0	1	1	0	0.3	0.3	-0.05	-0.07	1	1	0	600	600	0
11/4/2024 13:05	12807	MICK_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/4/2024 13:06	54603	SUMM_T2	0	0	0	0	0	0	-0.4	-0.39	1	1	0	900	900	0
11/4/2024 13:06	54601	SUMM_T2	8	10	2	0.53	0.56	0.03	0	0	0	0	0	0	0	0
11/4/2024 13:07	54601	SUMM_T2	8	10	2	0.53	0.56	0.03	-1.71	-1.69	2	2	0	2100	2100	0
11/4/2024 13:08	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.41	-0.36	0	0	0	0	0	0
11/4/2024 13:08	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
11/4/2024 13:09	54603	SUMM_T2	0	0	0	0	0	0	-0.4	-0.39	1	1	0	900	900	0
11/4/2024 13:09	54601	SUMM_T2	8	10	2	0.53	0.56	0.03	0	0	0	0	0	0	0	0
11/4/2024 13:09	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
11/4/2024 13:09	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.83	-0.72	0	0	0	0	0	0
11/4/2024 13:10	14801	TREI_T2	2	3	1	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
11/4/2024 13:10	14802	TREI_T2	2	2	0	0.25	0.3	0.05	0.33	0.32	0	0	0	0	0	0
11/4/2024 13:11	42701	AUGU_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
11/4/2024 13:11	10705	CATA_T2	1	1	0	0.2	1.9	1.7	0.06	0	0	0	0	0	0	0
11/4/2024 13:11	10702	CATA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/4/2024 13:12	10702	CATA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/4/2024 13:12	10705	CATA_T2	1	1	0	0.2	1.9	1.7	0.03	0	0	0	0	0	0	0
11/4/2024 13:12	42701	AUGU_T1	1	1	0	0.6	0.4	-0.2	0	0	2	2	0	1200	1200	0
11/4/2024 13:13	42701	AUGU_T1	1	1	0	0.6	0.4	-0.2	0	0	1	1	0	600	600	0
11/4/2024 13:14	10702	CATA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/4/2024 13:14	42701	AUGU_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
11/4/2024 13:14	10705	CATA_T2	1	1	0	0.2	1.9	1.7	0.03	0	0	0	0	0	0	0
11/4/2024 13:15	10702	CATA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/4/2024 13:15	63501	HEID_TBK1-2	2	2	0	0.45	0.45	0	0.01	0.02	1	1	0	900	900	0
11/4/2024 13:15	10705	CATA_T2	1	1	0	1.6	1.9	0.3	0.06	0	0	0	0	0	0	0
11/4/2024 13:17	44801	EDAN_T2	21	33	12	0.18	0.22	0.04	0	0	0	0	0	0	0	0
11/4/2024 13:17	44802	EDAN_T2	1	3	2	0	0.27	0.27	-0.82	-0.8	0	0	0	0	0	0
11/4/2024 13:18	67501	WEWI_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/4/2024 13:18	10705	CATA_T2	1	1	0	1.6	1.9	0.3	0.03	0	0	0	0	0	0	0
11/4/2024 13:18	10702	CATA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/4/2024 13:18	67505	WEWI_T1	0	0	0	0	0	0	-0.01	-0.1	1	1	0	900	900	0
11/4/2024 13:21	57201	ROSS_T1	344	287	-57	0.3	0.29	-0.01	-0.48	-0.53	0	0	0	0	0	0
11/4/2024 13:21	57205	ROSS_T1	170	93	-77	0.16	0.17	0.01	0	0	0	0	0	0	0	0
11/4/2024 13:21	57203	ROSS_T1	783	749	-34	0.14	0.14	0	0.64	0.62	0	0	0	0	0	0
11/4/2024 13:22	57201	ROSS_T1	344	287	-57	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
11/4/2024 13:22	57205	ROSS_T1	170	93	-77	0.16	0.17	0.01	0	0	0	0	0	0	0	0
11/4/2024 13:22	57203	ROSS_T1	783	749	-34	0.14	0.14	0	0.32	0.31	0	0	0	0	0	0
11/4/2024 13:23	57201	ROSS_T1	344	287	-57	0.3	0.29	-0.01	-0.48	-0.53	0	0	0	0	0	0
11/4/2024 13:23	57203	ROSS_T1	783	749	-34	0.14	0.14	0	0	0	0	0	0	0	0	0
11/4/2024 13:23	57205	ROSS_T1	170	93	-77	0.16	0.17	0.01	0	0	0	0	0	0	0	0
11/4/2024 13:25	43304	WATS_T2	0	0	0	0	0	0	-0.88	-1.01	0	0	0	0	0	0
11/4/2024 13:25	57205	ROSS_T1	170	93	-77	0.16	0.17	0.01	0	0	0	0	0	0	0	0
11/4/2024 13:25	57203	ROSS_T1	783	749	-34	0.14	0.14	0	0.64	0.62	0	0	0	0	0	0
11/4/2024 13:25	57201	ROSS_T1	344	287	-57	0.3	0.29	-0.01	-0.48	-0.53	0	0	0	0	0	0
11/4/2024 13:26	57203	ROSS_T1	783	749	-34	0.14	0.14	0	0	0	0	0	0	0	0	0
11/4/2024 13:26	57205	ROSS_T1	170	93	-77	0.16	0.17	0.01	0.29	0.25	0	0	0	0	0	0
11/4/2024 13:26	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 13:26	57201	ROSS_T1	344	287	-57	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
11/4/2024 13:27	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 13:28	11301	EMMA_T1	0	0	0	0	0	0	-0.86	-0.81	0	0	0	0	0	0
11/4/2024 13:28	60801	BUCK_T1	4	22	18	0.15	0.19	0.04	0	0	0	0	0	0	0	0
11/4/2024 13:28	11303	EMMA_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
11/4/2024 13:28	60803	BUCK_T1	11	16	5	0.22	0.31	0.09	0	0	0	0	0	0	0	0
11/4/2024 13:29	46802	HEPB_T1	1	1	0	1.2	1.5	0.3	-0.3	-0.31	0	0	0	0	0	0
11/4/2024 13:30	60803	BUCK_T1	16	15	-1	0.31	0.25	-0.06	0	0	0	0	0	0	0	0
11/4/2024 13:30	64701	LITI_T1	0	0	0	0	0	0	0.07	-0.05	0	0	0	0	0	0
11/4/2024 13:30	60801	BUCK_T1	21	18	-3	0.19	0.18	-0.01	0.1	0.02	0	0	0	0	0	0
11/4/2024 13:30	46602	LACR_T1	1	1	0	1.6	1	-0.6	-1.26	-1.24	0	0	0	0	0	0
11/4/2024 13:31	11301	EMMA_T1	0	0	0	0	0	0	-0.86	-0.81	0	0	0	0	0	0
11/4/2024 13:31	11303	EMMA_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
11/4/2024 13:33	41801	GOCI_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
11/4/2024 13:34	14704	TREX_T1	1	1	0	5.9	5.2	-0.7	0	0	0	0	0	0	0	0
11/4/2024 13:34	14705	TREX_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
11/4/2024 13:36	46602	LACR_T1	1	1	0	1.6	1	-0.6	-1.26	-1.24	0	0	0	0	0	0
11/4/2024 13:39	14802	TREI_T2	2	0	-2	0.3	0	-0.3	0.32	0.31	0	0	0	0	0	0
11/4/2024 13:39	57201	ROSS_T1	280	260	-20	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
11/4/2024 13:39	57203	ROSS_T1	740	439	-301	0.14	0.14	0	0	0	0	0	0	0	0	0
11/4/2024 13:39	14801	TREI_T2	3	2	-1	0.63	0.8	0.17	0	0	0	0	0	0	0	0
11/4/2024 13:39	57205	ROSS_T1	93	25	-68	0.17	0.24	0.07	0.25	0.25	0	0	0	0	0	0
11/4/2024 13:44	67502	WEWI_T2	8	10	2	0.39	0.4	0.01	0	0	0	0	0	0	0	0
11/4/2024 13:44	67503	WEWI_T2	1	3	2	8.7	2.97	-5.73	-0.6	-0.57	0	0	0	0	0	0
11/4/2024 13:45	45802	HEGI_T2	28	27	-1	0.42	0.49	0.07	0	0	0	0	0	0	0	0
11/4/2024 13:46	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 13:47	63501	HEID_TBK1-2	1	2	1	0.5	1.05	0.55	0.07	0.03	1	1	0	900	900	0
11/4/2024 13:49	63501	HEID_TBK1-2	1	2	1	0.5	1.05	0.55	0.07	0.03	1	1	0	900	900	0
11/4/2024 13:54	14802	TREI_T2	0	1	1	0	0.1	0.1	0.31	0.39	0	0	0	0	0	0
11/4/2024 13:54	14801	TREI_T2	1	2	1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
11/4/2024 13:55	52404	GRPA_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 13:55	52402	GRPA_T2	117	114	-3	0.37	0.39	0.02	0	0	0	0	0	0	0	0
11/4/2024 13:55	14801	TREI_T2	1	2	1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
11/4/2024 13:55	52403	GRPA_T2	34	105	71	1.11	0.49	-0.62	-0.02	-0.04	0	0	0	0	0	0
11/4/2024 13:55	52401	GRPA_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
11/4/2024 13:55	14802	TREI_T2	0	1	1	0	0.1	0.1	0.31	0.39	0	0	0	0	0	0
11/4/2024 13:56	14802	TREI_T2	0	1	1	0	0.1	0.1	0.31	0.39	0	0	0	0	0	0
11/4/2024 13:56	14801	TREI_T2	1	2	1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
11/4/2024 13:57	54501	ENOL_T2	3	4	1	0.33	0.4	0.07	0	0	0	0	0	0	0	0
11/4/2024 13:57	54502	ENOL_T2	1	2	1	0.9	0.55	-0.35	-1.43	-1.33	0	0	0	0	0	0
11/4/2024 13:57	54505	ENOL_T2	1	1	0	1.3	1.3	0	-0.74	-0.75	0	0	0	0	0	0
11/4/2024 13:57	54503	ENOL_T2	0	0	0	0	0	0	-0.44	-0.42	1	1	0	600	600	0
11/4/2024 13:59	54502	ENOL_T2	1	2	1	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
11/4/2024 13:59	54505	ENOL_T2	1	1	0	1.3	1.3	0	-0.74	-0.75	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/4/2024 13:59	63801	HEMP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/4/2024 13:59	63804	HEMP_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
11/4/2024 13:59	63803	HEMP_T1	0	1	1	0	0.1	0.1	0.14	0.12	0	0	0	0	0	0
11/4/2024 13:59	54501	ENOL_T2	3	4	1	0.33	0.4	0.07	0	0	0	0	0	0	0	0
11/4/2024 14:00	54501	ENOL_T2	4	4	0	0.38	0.4	0.02	0.1	0.07	0	0	0	0	0	0
11/4/2024 14:00	54502	ENOL_T2	2	1	-1	0.55	1	0.45	-2.86	-2.66	0	0	0	0	0	0
11/4/2024 14:00	54505	ENOL_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
11/4/2024 14:00	47201	FAXO_T2	0	0	0	0	0	0	-2.42	-2.39	1	1	0	1200	1200	0
11/4/2024 14:02	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
11/4/2024 14:02	54501	ENOL_T2	4	4	0	0.38	0.4	0.02	0	0	0	0	0	0	0	0
11/4/2024 14:02	54502	ENOL_T2	2	1	-1	0.55	1	0.45	0	0	0	0	0	0	0	0
11/4/2024 14:02	54504	ENOL_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
11/4/2024 14:02	54505	ENOL_T2	1	1	0	1.3	1.3	0	-0.74	-0.75	0	0	0	0	0	0
11/4/2024 14:03	63803	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/4/2024 14:03	63804	HEMP_T1	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
11/4/2024 14:03	40602	PIGR_T1	2	1	-1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
11/4/2024 14:03	40601	PIGR_T1	14	35	21	0.18	0.2	0.02	0	0	0	0	0	0	0	0
11/4/2024 14:03	63801	HEMP_T1	0	1	1	0	0.2	0.2	0.16	0.81	0	0	0	0	0	0
11/4/2024 14:04	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 14:08	15203	SFAR_T2	2	1	-1	0.35	0.3	-0.05	-1.34	-1.33	0	0	0	0	0	0
11/4/2024 14:09	41801	GOCI_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/4/2024 14:10	66504	SMAN_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
11/4/2024 14:14	57101	SPHI_T2	6	6	0	1.92	1.88	-0.04	0	0	0	0	0	0	0	0
11/4/2024 14:14	57106	SPHI_T2	3	3	0	1.93	1.87	-0.06	0	0	0	0	0	0	0	0
11/4/2024 14:14	23202	HIRU_T2	6	2	-4	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
11/4/2024 14:14	23201	HIRU_T2	7	5	-2	0.17	0.16	-0.01	0.15	0.14	0	0	0	0	0	0
11/4/2024 14:14	57103	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 14:14	57104	SPHI_T2	3	3	0	0.43	3.6	3.17	0.48	0.45	0	0	0	0	0	0
11/4/2024 14:14	23203	HIRU_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/4/2024 14:15	23203	HIRU_T2	0	0	0	0	0	0	0.09	0.15	0	0	0	0	0	0
11/4/2024 14:15	23201	HIRU_T2	5	4	-1	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
11/4/2024 14:15	23202	HIRU_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/4/2024 14:19	23202	HIRU_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/4/2024 14:19	23201	HIRU_T2	5	4	-1	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
11/4/2024 14:19	23203	HIRU_T2	0	0	0	0	0	0	0.09	0.15	0	0	0	0	0	0
11/4/2024 14:20	54601	SUMM_T2	8	8	0	0.46	0.35	-0.11	-1.77	-1.75	2	2	0	2100	2100	0
11/4/2024 14:23	54601	SUMM_T2	8	8	0	0.46	0.35	-0.11	-1.75	-1.8	2	2	0	2100	2100	0
11/4/2024 14:24	54601	SUMM_T2	8	8	0	0.46	0.35	-0.11	-1.75	-1.8	2	2	0	2100	2100	0
11/4/2024 14:28	48902	FOSP_T2	1	2	1	0.2	0.25	0.05	0.31	0.25	0	0	0	0	0	0
11/4/2024 14:30	44302	BEAV_T2	3	3	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
11/4/2024 14:30	21204	ECAR_T2	1	1	0	0	0	0	-0.69	-0.66	0	0	0	0	0	0
11/4/2024 14:30	21206	ECAR_T2	1	1	0	7.7	7.9	0.2	0	0	0	0	0	0	0	0
11/4/2024 14:30	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 14:39	58402	MORO_T1	0	0	0	0	0	0	-0.26	-0.26	2	2	0	1500	1500	0
11/4/2024 14:42	57401	SPAN_T1	2	2	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
11/4/2024 14:42	51602	DUKE_T2	310	439	129	0.17	0.18	0.01	-0.29	-0.29	0	0	0	0	0	0
11/4/2024 14:42	51604	DUKE_T2	43	61	18	0.19	0.2	0.01	0	0	0	0	0	0	0	0
11/4/2024 14:42	57403	SPAN_T1	3	5	2	0.17	0.16	-0.01	0.01	-0.05	0	0	0	0	0	0
11/4/2024 14:43	51602	DUKE_T2	310	439	129	0.17	0.18	0.01	-0.29	-0.29	0	0	0	0	0	0
11/4/2024 14:43	51601	DUKE_T1	121	118	-3	0.15	0.17	0.02	0	0	0	0	0	0	0	0
11/4/2024 14:43	51604	DUKE_T2	43	61	18	0.19	0.2	0.01	0	0	0	0	0	0	0	0
11/4/2024 14:43	51603	DUKE_T1	344	465	121	0.19	0.18	-0.01	-0.69	-0.86	0	0	0	0	0	0
11/4/2024 14:44	51603	DUKE_T1	344	465	121	0.19	0.18	-0.01	-0.35	-0.43	0	0	0	0	0	0
11/4/2024 14:44	54501	ENOL_T2	1	1	0	0.1	0.1	0	0.08	0.06	0	0	0	0	0	0
11/4/2024 14:44	54505	ENOL_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
11/4/2024 14:44	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/4/2024 14:44	51601	DUKE_T1	121	118	-3	0.15	0.17	0.02	0	0	0	0	0	0	0	0
11/4/2024 14:44	51602	DUKE_T2	310	439	129	0.17	0.18	0.01	-0.29	-0.29	0	0	0	0	0	0
11/4/2024 14:44	51604	DUKE_T2	43	61	18	0.19	0.2	0.01	0	0	0	0	0	0	0	0
11/4/2024 14:45	51601	DUKE_T1	118	3	-115	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
11/4/2024 14:45	51604	DUKE_T2	61	3	-58	0.2	0.27	0.07	-0.49	-0.49	0	0	0	0	0	0
11/4/2024 14:45	51603	DUKE_T1	465	4	-461	0.18	0.9	0.72	-0.69	-0.86	0	0	0	0	0	0
11/4/2024 14:45	51602	DUKE_T2	439	4	-435	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
11/4/2024 14:46	24702	FLND_T2	0	6	6	0	0.52	0.52	0.28	0.22	1	1	0	1200	1200	0
11/4/2024 14:47	51601	DUKE_T1	118	3	-115	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
11/4/2024 14:47	44801	EDAN_T2	31	74	43	0.19	0.23	0.04	-1.39	-1.37	0	0	0	0	0	0
11/4/2024 14:47	51603	DUKE_T1	465	4	-461	0.18	0.9	0.72	-0.35	-0.43	0	0	0	0	0	0
11/4/2024 14:47	44802	EDAN_T2	1	5	4	0.1	0.18	0.08	0	0	0	0	0	0	0	0
11/4/2024 14:49	44703	MUNC_T2	3	2	-1	0.77	1.3	0.53	0	0	0	0	0	0	0	0
11/4/2024 14:49	44702	MUNC_T2	25	51	26	0.15	0.17	0.02	0	0	0	0	0	0	0	0
11/4/2024 14:49	44701	MUNC_T2	7	6	-1	0.19	0.17	-0.02	0	0	0	0	0	0	0	0
11/4/2024 14:52	60301	TWVA_T2	0	0	0	0	0	0	-4.04	-3.9	4	4	0	3600	3600	0
11/4/2024 14:54	40703	FFLD_T1	4	4	0	0.33	0.6	0.27	0	0	0	0	0	0	0	0
11/4/2024 14:54	40701	FFLD_T1	56	76	20	0.34	0.45	0.11	0	0	0	0	0	0	0	0
11/4/2024 14:54	40702	FFLD_T1	6	107	101	0.23	0.24	0.01	-0.42	-0.47	1	1	0	1200	1200	0
11/4/2024 14:56	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 14:56	43302	WATS_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
11/4/2024 14:58	40703	FFLD_T1	4	4	0	0.33	0.6	0.27	0	0	0	0	0	0	0	0
11/4/2024 14:58	40701	FFLD_T1	56	76	20	0.34	0.45	0.11	0	0	0	0	0	0	0	0
11/4/2024 14:58	40702	FFLD_T1	6	107	101	0.23	0.24	0.01	0	0	0	0	0	0	0	0
11/4/2024 15:01	67503	WEWI_T2	1	2	1	9.3	4.65	-4.65	-1.06	-1.18	0	0	0	0	0	0
11/4/2024 15:01	67502	WEWI_T2	7	52	45	0.11	0.14	0.03	0	0	0	0	0	0	0	0
11/4/2024 15:02	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 15:02	67503	WEWI_T2	1	2	1	9.3	4.65	-4.65	-0.53	-0.59	0	0	0	0	0	0
11/4/2024 15:02	67502	WEWI_T2	7	52	45	0.11	0.14	0.03	0	0	0	0	0	0	0	0
11/4/2024 15:03	61102	BERK_T5	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/4/2024 15:03	67503	WEWI_T2	1	2	1	9.3	4.65	-4.65	-0.53	-0.59	0	0	0	0	0	0
11/4/2024 15:03	61103	BERK_T5	0	2	2	0	0.1	0.1	-0.01	0.04	0	0	0	0	0	0
11/4/2024 15:03	67502	WEWI_T2	7	52	45	0.11	0.14	0.03	0	0	0	0	0	0	0	0
11/4/2024 15:09	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 15:11	57401	SPAN_T1	2	2	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
11/4/2024 15:11	57403	SPAN_T1	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
11/4/2024 15:17	48901	FOSP_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
11/4/2024 15:17	48902	FOSP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 15:22	67503	WEWI_T2	2	1	-1	4.65	8.8	4.15	-0.59	-0.67	0	0	0	0	0	0
11/4/2024 15:22	67502	WEWI_T2	23	92	69	0.14	0.17	0.03	0	0	0	0	0	0	0	0
11/4/2024 15:31	13101	NHAM_T1	0	0	0	0	0	0	-2.81	-2.7	2	2	0	2400	2400	0
11/4/2024 15:32	51603	DUKE_T1	2	2	0	0.35	0.35	0	-0.47	-0.51	0	0	0	0	0	0
11/4/2024 15:39	67401	WAKE_T2	91	42	-49	0.21	0.16	-0.05	-1.16	-1.13	0	0	0	0	0	0
11/4/2024 15:39	67402	WAKE_T2	1	0	-1	0.1	0	-0.1	0.26	0.25	0	0	0	0	0	0
11/4/2024 15:40	10101	ALLE_T3	1	2	1	5.7	3.75	-1.95	0	0	0	0	0	0	0	0
11/4/2024 15:40	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 15:43	67402	WAKE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/4/2024 15:43	67401	WAKE_T2	91	42	-49	0.21	0.16	-0.05	-1.16	-1.13	0	0	0	0	0	0
11/4/2024 15:44	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 15:44	67402	WAKE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/4/2024 15:44	10702	CATA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/4/2024 15:44	67401	WAKE_T2	91	42	-49	0.21	0.16	-0.05	-1.16	-1.13	0	0	0	0	0	0
11/4/2024 15:45	67502	WEWI_T2	92	59	-33	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
11/4/2024 15:45	40901	JESH_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/4/2024 15:45	67503	WEWI_T2	1	1	0	8.7	8.9	0.2	-0.67	-0.58	0	0	0	0	0	0
11/4/2024 15:45	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 15:45	48901	FOSP_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
11/4/2024 15:45	10702	CATA_T2	1	1	0	0.3	0.3	0	-0.91	-0.87	0	0	0	0	0	0
11/4/2024 15:46	67503	WEWI_T2	1	1	0	8.7	8.9	0.2	-0.67	-0.58	0	0	0	0	0	0
11/4/2024 15:46	67502	WEWI_T2	92	59	-33	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
11/4/2024 15:47	10702	CATA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/4/2024 15:47	10705	CATA_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
11/4/2024 15:49	67502	WEWI_T2	92	59	-33	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
11/4/2024 15:49	67503	WEWI_T2	1	1	0	8.7	8.9	0.2	-0.67	-0.58	0	0	0	0	0	0
11/4/2024 15:49	48901	FOSP_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
11/4/2024 15:51	66202	SISP_T2	0	0	0	0	0	0	-0.57	-0.64	0	0	0	0	0	0
11/4/2024 15:57	12302	LANA_T2	0	0	0	0	0	0	-1.77	-1.77	2	2	0	1500	1500	0
11/4/2024 16:04	11203	ELHE_T1	0	0	0	0	0	0	0.85	0.94	0	0	0	0	0	0
11/4/2024 16:08	48901	FOSP_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
11/4/2024 16:08	66504	SMAN_T2	0	0	0	0	0	0	-1.49	-1.2	0	0	0	0	0	0
11/4/2024 16:12	66504	SMAN_T2	0	0	0	0	0	0	-0.5	-0.4	0	0	0	0	0	0
11/4/2024 16:15	44302	BEAV_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
11/4/2024 16:15	67106	SPRI_T2	0	0	0	0	0	0	-1.24	-1.25	1	1	0	900	900	0
11/4/2024 16:15	67102	SPRI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/4/2024 16:17	17805	GILB_T2	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
11/4/2024 16:18	17805	GILB_T2	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
11/4/2024 16:19	52401	GRPA_T2	9	5	-4	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
11/4/2024 16:19	52402	GRPA_T2	203	182	-21	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
11/4/2024 16:19	52404	GRPA_T2	7	6	-1	0.47	0.5	0.03	0	0	0	0	0	0	0	0
11/4/2024 16:19	52403	GRPA_T2	32	14	-18	0.45	0.76	0.31	-0.01	-0.05	0	0	0	0	0	0
11/4/2024 16:20	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 16:25	67102	SPRI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/4/2024 16:25	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 16:29	21206	ECAR_T2	1	1	0	8.2	7.9	-0.3	-0.31	-0.34	0	0	0	0	0	0
11/4/2024 16:29	65702	RVIL_T2	0	0	0	0	0	0	-0.59	-0.63	0	0	0	0	0	0
11/4/2024 16:29	21204	ECAR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/4/2024 16:32	63501	HEID_TBK1-2	37	26	-11	0.44	0.3	-0.14	-0.56	-0.56	1	1	0	900	900	0
11/4/2024 16:33	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.42	0	0	0	0	0	0
11/4/2024 16:33	15703	TANN_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
11/4/2024 16:34	47002	HUGH_T2	7	0	-7	0.14	0	-0.14	0	0	0	0	0	0	0	0
11/4/2024 16:34	47001	HUGH_T2	3	0	-3	6.63	6.2	-0.43	-0.2	-0.17	0	0	0	0	0	0
11/4/2024 16:34	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
11/4/2024 16:34	20802	LOPO_T1	1	1	0	0.4	0.2	-0.2	-0.57	-0.58	1	1	0	600	600	0
11/4/2024 16:39	54601	SUMM_T2	12	9	-3	0.54	0.39	-0.15	-3.02	-3.01	2	2	0	2100	2100	0
11/4/2024 16:39	54602	SUMM_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/4/2024 16:41	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
11/4/2024 16:41	43401	BENT_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/4/2024 16:43	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
11/4/2024 16:43	43401	BENT_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/4/2024 16:43	60803	BUCK_T1	5	12	7	0.16	0.21	0.05	-0.51	-0.52	1	1	0	600	600	0
11/4/2024 16:43	60801	BUCK_T1	0	12	12	0	0.15	0.15	0	0	0	0	0	0	0	0
11/4/2024 16:44	24105	EHAZ_T1	4	4	0	6.68	6.7	0.02	0	0	0	0	0	0	0	0
11/4/2024 16:44	24101	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 16:44	24102	EHAZ_T1	1	23	22	0.6	0.6	0	0.71	0.7	0	0	0	0	0	0
11/4/2024 16:45	60801	BUCK_T1	12	5	-7	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/4/2024 16:45	67401	WAKE_T2	0	0	0	0	0	0	-1.16	-1.18	0	0	0	0	0	0
11/4/2024 16:45	60803	BUCK_T1	12	6	-6	0.21	0.17	-0.04	-0.51	-0.52	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/4/2024 16:46	14201	EALL_T1	0	0	0	0	0	0	0.49	0.44	0	0	0	0	0	0
11/4/2024 16:47	60801	BUCK_T1	12	5	-7	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/4/2024 16:47	60803	BUCK_T1	12	6	-6	0.21	0.17	-0.04	-0.51	-0.52	1	1	0	600	600	0
11/4/2024 16:48	60801	BUCK_T1	12	5	-7	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/4/2024 16:48	60803	BUCK_T1	12	6	-6	0.21	0.17	-0.04	-1.02	-1.04	2	2	0	1200	1200	0
11/4/2024 16:51	13302	ORVI_T2	0	1	1	0	0	0	0.36	1.39	0	0	0	0	0	0
11/4/2024 16:59	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
11/4/2024 17:01	24204	PROV_T3	2	2	0	2.85	2.85	0	0	0	0	0	0	0	0	0
11/4/2024 17:01	24205	PROV_T3	4	3	-1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
11/4/2024 17:01	24201	PROV_T3	1	1	0	7.3	7.7	0.4	-0.12	-0.09	0	0	0	0	0	0
11/4/2024 17:03	15203	SFAR_T2	0	0	0	0	0	0	-1.31	-1.32	0	0	0	0	0	0
11/4/2024 17:04	59402	RFLD_T2	0	0	0	0	0	0	-0.85	-0.87	1	1	0	450	450	0
11/4/2024 17:16	10206	ALLE_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
11/4/2024 17:16	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 17:16	10102	ALLE_T2	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
11/4/2024 17:17	46602	LACR_T1	0	0	0	0	0	0	-1.26	-1.22	0	0	0	0	0	0
11/4/2024 17:23	56501	ROCK_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 17:23	56504	ROCK_T2	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
11/4/2024 17:24	20802	LOPO_T1	1	1	0	0.2	0.1	-0.1	-0.55	-0.55	1	1	0	600	600	0
11/4/2024 17:25	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.28	-0.26	0	0	0	0	0	0
11/4/2024 18:31	43304	WATS_T2	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
11/4/2024 18:31	43302	WATS_T2	3	4	1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
11/4/2024 19:00	13302	ORVI_T2	0	0	0	0	0	0	1.48	1.45	0	0	0	0	0	0
11/4/2024 19:00	48902	FOSP_T2	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
11/4/2024 19:00	62605	ENGL_T1	0	0	0	0	0	0	-0.85	-0.83	0	0	0	0	0	0
11/4/2024 19:00	57201	ROSS_T1	6	27	21	0.1	0.21	0.11	-0.52	-0.51	0	0	0	0	0	0
11/4/2024 19:00	62601	ENGL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:00	10801	OHHI_T1	0	0	0	0	0	0	-1.67	-1.66	2	2	0	1500	1500	0
11/4/2024 19:00	67502	WEWI_T2	0	14	14	0	0.12	0.12	-0.86	-0.96	0	0	0	0	0	0
11/4/2024 19:00	44802	EDAN_T2	1	1	0	0	0.2	0.2	-0.85	-0.9	0	0	0	0	0	0
11/4/2024 19:00	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	-1.37	-1.38	1	1	0	600	600	0
11/4/2024 19:00	43302	WATS_T2	4	3	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/4/2024 19:00	57401	SPAN_T1	2	2	0	1.05	1.25	0.2	0.27	0.27	0	0	0	0	0	0
11/4/2024 19:00	60201	ATGL_T2	58	146	88	0.22	0.31	0.09	-0.22	-0.2	0	0	0	0	0	0
11/4/2024 19:00	45502	DERR_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
11/4/2024 19:00	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.56	-0.57	0	0	0	0	0	0
11/4/2024 19:00	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:00	67503	WEWI_T2	1	1	0	6.7	6.9	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:00	43304	WATS_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:00	54601	SUMM_T2	8	11	3	0.38	0.55	0.17	-5.89	-5.66	4	4	0	4200	4200	0
11/4/2024 19:00	62606	ENGL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:00	65207	PRIN_T4	14	7	-7	0.51	0.3	-0.21	0	0	1	1	0	1200	1200	0
11/4/2024 19:00	54502	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:00	51603	DUKE_T1	1	1	0	0.1	0.1	0	-0.4	-0.44	0	0	0	0	0	0
11/4/2024 19:00	10702	CATA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/4/2024 19:00	63602	LETO_T1	0	60	60	0	0.13	0.13	0	0	0	0	0	0	0	0
11/4/2024 19:00	44801	EDAN_T2	27	39	12	0.17	0.25	0.08	0	0	0	0	0	0	0	0
11/4/2024 19:00	52502	PROG_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
11/4/2024 19:00	63601	LETO_T1	1	2	1	0.1	0.35	0.25	0.73	0.66	1	1	0	900	900	0
11/4/2024 19:00	54001	SDLE_T1	1	4	3	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
11/4/2024 19:00	67401	WAKE_T2	12	34	22	0.17	0.16	-0.01	-1.21	-1.15	0	0	0	0	0	0
11/4/2024 19:00	10705	CATA_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
11/4/2024 19:00	63802	HEMP_T1	0	0	0	0	0	0	-0.9	-0.84	0	0	0	0	0	0
11/4/2024 19:00	50701	SMEC_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
11/4/2024 19:00	65206	PRIN_T4	0	1	1	0	4	4	0	0	0	0	0	0	0	0
11/4/2024 19:00	57203	ROSS_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
11/4/2024 19:00	63804	HEMP_T1	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
11/4/2024 19:01	45702	LIND_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
11/4/2024 19:01	44904	SCOT_T1	0	0	0	0	0	0	0.68	0.75	0	0	0	0	0	0
11/4/2024 19:01	48902	FOSP_T2	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
11/4/2024 19:01	51604	DUKE_T2	0	0	0	0	0	0	-1.38	-1.37	0	0	0	0	0	0
11/4/2024 19:01	66505	SMAN_T2	3	3	0	0.6	0.73	0.13	-0.25	-0.18	1	1	0	900	900	0
11/4/2024 19:01	57402	SPAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:01	63803	HEMP_T1	0	0	0	0	0	0	1.1	1.08	0	0	0	0	0	0
11/4/2024 19:01	59302	MCAL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/4/2024 19:01	57104	SPHI_T2	1	3	2	1.1	1	-0.1	-0.2	-0.23	0	0	0	0	0	0
11/4/2024 19:01	57106	SPHI_T2	3	3	0	1.7	1.83	0.13	0	0	0	0	0	0	0	0
11/4/2024 19:01	43302	WATS_T2	4	3	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/4/2024 19:01	45701	LIND_T2	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
11/4/2024 19:01	40501	CRES_T2	5	7	2	0.14	0.24	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:01	44903	SCOT_T1	0	15	15	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:01	58401	MORO_T1	0	0	0	0	0	0	-1.82	-1.76	1	1	0	600	600	0
11/4/2024 19:01	57201	ROSS_T1	6	27	21	0.1	0.21	0.11	0	0	0	0	0	0	0	0
11/4/2024 19:01	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:01	58402	MORO_T1	3	0	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/4/2024 19:01	44302	BEAV_T2	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
11/4/2024 19:01	57101	SPHI_T2	0	6	6	0	0.8	0.8	0	0	0	0	0	0	0	0
11/4/2024 19:01	60101	COCA_T1	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
11/4/2024 19:01	43301	WATS_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
11/4/2024 19:01	57403	SPAN_T1	0	0	0	0	0	0	0.01	0.07	0	0	0	0	0	0
11/4/2024 19:01	59301	MCAL_T1	1	1	0	0.2	0.1	-0.1	-2.56	-2.56	0	0	0	0	0	0
11/4/2024 19:01	67502	WEWI_T2	0	14	14	0	0.12	0.12	-0.43	-0.48	0	0	0	0	0	0
11/4/2024 19:01	15203	SFAR_T2	0	0	0	0	0	0	-1.35	-1.35	0	0	0	0	0	0
11/4/2024 19:01	63804	HEMP_T1	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
11/4/2024 19:01	67503	WEWI_T2	1	1	0	6.7	6.9	0.2	-0.6	-0.63	0	0	0	0	0	0
11/4/2024 19:01	57203	ROSS_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
11/4/2024 19:01	44502	HAMI_T2	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
11/4/2024 19:01	43304	WATS_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:01	67001	STHI_T2	150	245	95	0.18	0.2	0.02	0	0	0	0	0	0	0	0
11/4/2024 19:01	40502	CRES_T2	13	27	14	0.38	0.39	0.01	-0.29	-0.28	0	0	0	0	0	0
11/4/2024 19:01	67002	STHI_T2	2	18	16	0.1	0.11	0.01	0.49	0.48	0	0	0	0	0	0
11/4/2024 19:01	57401	SPAN_T1	2	2	0	1.05	1.25	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:01	44505	HAMI_T2	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
11/4/2024 19:02	67502	WEWI_T2	0	14	14	0	0.12	0.12	-0.43	-0.48	0	0	0	0	0	0
11/4/2024 19:02	54502	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:02	20802	LOPO_T1	1	1	0	0.4	0.4	0	-0.55	-0.54	1	1	0	600	600	0
11/4/2024 19:02	44801	EDAN_T2	27	39	12	0.17	0.25	0.08	0	0	0	0	0	0	0	0
11/4/2024 19:02	57402	SPAN_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
11/4/2024 19:02	59301	MCAL_T1	1	1	0	0.2	0.1	-0.1	-1.28	-1.28	0	0	0	0	0	0
11/4/2024 19:02	59201	THOM_T1	0	17	17	0	0.25	0.25	0	0	0	0	0	0	0	0
11/4/2024 19:02	44802	EDAN_T2	1	1	0	0	0.2	0.2	-1.7	-1.8	0	0	0	0	0	0
11/4/2024 19:02	67503	WEWI_T2	1	1	0	6.7	6.9	0.2	-1.2	-1.25	0	0	0	0	0	0
11/4/2024 19:02	58401	MORO_T1	0	0	0	0	0	0	-1.82	-1.76	1	1	0	600	600	0
11/4/2024 19:02	59302	MCAL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/4/2024 19:02	57201	ROSS_T1	6	27	21	0.1	0.21	0.11	0	0	0	0	0	0	0	0
11/4/2024 19:02	57702	PAXT_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
11/4/2024 19:02	52401	GRPA_T2	0	0	0	0	0	0	-0.5	-0.46	0	0	0	0	0	0
11/4/2024 19:02	51603	DUKE_T1	1	1	0	0.1	0.1	0	-0.79	-0.88	0	0	0	0	0	0
11/4/2024 19:02	67002	STHI_T2	2	18	16	0.1	0.11	0.01	0.49	0.48	0	0	0	0	0	0
11/4/2024 19:02	58003	WCAR_T1	1	1	0	1.5	1.5	0	0	0.04	1	1	0	600	600	0
11/4/2024 19:02	15203	SFAR_T2	0	0	0	0	0	0	-1.35	-1.35	0	0	0	0	0	0
11/4/2024 19:02	58402	MORO_T1	3	0	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/4/2024 19:02	58001	WCAR_T1	4	4	0	0.98	0.85	-0.13	0	0	0	0	0	0	0	0
11/4/2024 19:02	67401	WAKE_T2	12	34	22	0.17	0.16	-0.01	-1.21	-1.15	0	0	0	0	0	0
11/4/2024 19:02	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	-2.74	-2.76	2	2	0	1200	1200	0
11/4/2024 19:02	44902	SCOT_T2	178	473	295	0.15	0.27	0.12	-0.95	-0.89	0	0	0	0	0	0
11/4/2024 19:02	43304	WATS_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:02	67602	WARW_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
11/4/2024 19:02	54501	ENOL_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
11/4/2024 19:02	67001	STHI_T2	150	245	95	0.18	0.2	0.02	0.03	0.04	0	0	0	0	0	0
11/4/2024 19:02	60801	BUCK_T1	46	57	11	0.35	0.46	0.11	0	0	0	0	0	0	0	0
11/4/2024 19:02	54001	SDLE_T1	1	4	3	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
11/4/2024 19:02	23901	EFMO_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
11/4/2024 19:02	57205	ROSS_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
11/4/2024 19:02	64802	MONE_T2	45	28	-17	0.25	0.17	-0.08	-0.01	-0.01	0	0	0	0	0	0
11/4/2024 19:02	43202	MVIL_T2	61	63	2	0.56	0.7	0.14	-0.72	-0.72	0	0	0	0	0	0
11/4/2024 19:02	43301	WATS_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
11/4/2024 19:02	43302	WATS_T2	4	3	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/4/2024 19:02	59202	THOM_T1	1	50	49	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:02	44901	SCOT_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:02	60803	BUCK_T1	16	24	8	0.46	0.53	0.07	-1.1	-1.08	2	2	0	1200	1200	0
11/4/2024 19:02	52403	GRPA_T2	0	2	2	0	0.1	0.1	-0.09	-0.08	0	0	0	0	0	0
11/4/2024 19:02	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:02	52402	GRPA_T2	3	3	0	0.4	0.6	0.2	-0.96	-1.06	0	0	0	0	0	0
11/4/2024 19:03	60803	BUCK_T1	16	24	8	0.46	0.53	0.07	0	0	0	0	0	0	0	0
11/4/2024 19:03	10702	CATA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/4/2024 19:03	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
11/4/2024 19:03	57401	SPAN_T1	2	2	0	1.05	1.25	0.2	0.54	0.54	0	0	0	0	0	0
11/4/2024 19:03	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.28	-0.28	0	0	0	0	0	0
11/4/2024 19:03	51102	CARL_T1	50	117	67	0.17	0.32	0.15	0	0	0	0	0	0	0	0
11/4/2024 19:03	52402	GRPA_T2	3	3	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:03	62605	ENGL_T1	0	0	0	0	0	0	-0.85	-0.83	0	0	0	0	0	0
11/4/2024 19:03	62606	ENGL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:03	65502	MOJO_T2	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:03	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:03	66505	SMAN_T2	3	3	0	0.6	0.73	0.13	0	0	0	0	0	0	0	0
11/4/2024 19:03	40801	ECH_T2	0	0	0	0	0	0	0.77	0.75	0	0	0	0	0	0
11/4/2024 19:03	62601	ENGL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:03	63601	LETO_T1	1	2	1	0.1	0.35	0.25	0.73	0.66	1	1	0	900	900	0
11/4/2024 19:03	58803	COCO_T1	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:03	10705	CATA_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
11/4/2024 19:03	58402	MORO_T1	3	0	-3	0.4	0	-0.4	0.42	0.37	1	1	0	900	900	0
11/4/2024 19:03	64802	MONE_T2	45	28	-17	0.25	0.17	-0.08	-0.01	-0.01	0	0	0	0	0	0
11/4/2024 19:03	52401	GRPA_T2	0	0	0	0	0	0	-0.5	-0.46	0	0	0	0	0	0
11/4/2024 19:03	57402	SPAN_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
11/4/2024 19:03	51109	CARL_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
11/4/2024 19:03	51603	DUKE_T1	1	1	0	0.1	0.1	0	-0.4	-0.44	0	0	0	0	0	0
11/4/2024 19:03	66502	SMAN_T2	0	0	0	0	0	0	-0.12	-0.19	0	0	0	0	0	0
11/4/2024 19:03	65503	MOJO_T2	0	0	0	0	0	0	-0.47	-0.43	0	0	0	0	0	0
11/4/2024 19:03	60801	BUCK_T1	46	57	11	0.35	0.46	0.11	0	0	0	0	0	0	0	0
11/4/2024 19:03	52403	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:03	64801	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/4/2024 19:03	62607	ENGL_T1	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/4/2024 19:03	14802	TREI_T2	0	0	0	0	0	0	0.69	0.63	0	0	0	0	0	0
11/4/2024 19:03	51101	CARL_T1	1	1	0	4.9	4.7	-0.2	0	0	0	0	0	0	0	0
11/4/2024 19:03	45501	DERR_T2	0	0	0	0	0	0	0.59	0.65	2	2	0	1800	1800	0
11/4/2024 19:03	51108	CARL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:03	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/4/2024 19:03	54001	SDLE_T1	1	4	3	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
11/4/2024 19:03	63602	LETO_T1	0	60	60	0	0.13	0.13	0	0	0	0	0	0	0	0
11/4/2024 19:03	46001	BERW_T1	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
11/4/2024 19:03	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/4/2024 19:03	50701	SMEC_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
11/4/2024 19:03	67501	WEWI_T1	0	0	0	0	0	0	-1.31	-1.36	0	0	0	0	0	0
11/4/2024 19:03	51107	CARL_T1	0	14	14	0	0.12	0.12	0	0	0	0	0	0	0	0
11/4/2024 19:03	55001	NEWP_T1	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
11/4/2024 19:03	67106	SPRI_T2	0	0	0	0	0	0	-1.35	-1.35	1	1	0	900	900	0
11/4/2024 19:04	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:04	10702	CATA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/4/2024 19:04	61103	BERK_T5	77	5	-72	0.15	0.12	-0.03	-0.01	-0.01	0	0	0	0	0	0
11/4/2024 19:04	23402	HONE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:04	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
11/4/2024 19:04	64303	LINC_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
11/4/2024 19:04	61102	BERK_T5	4	1	-3	0.28	0.5	0.22	0	0	0	0	0	0	0	0
11/4/2024 19:04	40702	FFLD_T1	116	191	75	0.31	0.5	0.19	-0.78	-0.82	1	1	0	1200	1200	0
11/4/2024 19:04	40703	FFLD_T1	4	4	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:04	57201	ROSS_T1	6	27	21	0.1	0.21	0.11	-0.52	-0.51	0	0	0	0	0	0
11/4/2024 19:04	58003	WCAR_T1	1	1	0	1.5	1.5	0	0	0.04	1	1	0	600	600	0
11/4/2024 19:04	48901	FOSP_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
11/4/2024 19:04	51602	DUKE_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
11/4/2024 19:04	63803	HEMP_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
11/4/2024 19:04	46602	LACR_T1	0	0	0	0	0	0	-1.24	-1.17	0	0	0	0	0	0
11/4/2024 19:04	54504	ENOL_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
11/4/2024 19:04	40701	FFLD_T1	56	80	24	0.44	0.63	0.19	0	0	0	0	0	0	0	0
11/4/2024 19:04	23401	HONE_T2	3	11	8	0.3	0.4	0.1	-0.01	0.11	0	0	0	0	0	0
11/4/2024 19:04	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:04	67503	WEWI_T2	1	1	0	6.7	6.9	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:04	54502	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:04	58001	WCAR_T1	4	4	0	0.98	0.85	-0.13	0	0	0	0	0	0	0	0
11/4/2024 19:04	65702	RVIL_T2	0	0	0	0	0	0	-0.68	-0.73	0	0	0	0	0	0
11/4/2024 19:04	51302	WIND_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
11/4/2024 19:04	53501	EVIL_T2	1	2	1	0.4	0.4	0	-0.8	-0.86	1	1	0	600	600	0
11/4/2024 19:04	54601	SUMM_T2	8	11	3	0.38	0.55	0.17	0	0	0	0	0	0	0	0
11/4/2024 19:04	67502	WEWI_T2	0	14	14	0	0.12	0.12	-0.43	-0.48	0	0	0	0	0	0
11/4/2024 19:04	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:04	63804	HEMP_T1	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
11/4/2024 19:04	11301	EMMA_T1	0	0	0	0	0	0	-0.85	-0.9	0	0	0	0	0	0
11/4/2024 19:04	54603	SUMM_T2	0	0	0	0	0	0	-0.53	-0.48	1	1	0	900	900	0
11/4/2024 19:04	10705	CATA_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
11/4/2024 19:05	47201	FAXO_T2	0	0	0	0	0	0	-2.33	-2.35	1	1	0	1200	1200	0
11/4/2024 19:05	40601	PIGR_T1	2	12	10	0.1	0.12	0.02	0	0	0	0	0	0	0	0
11/4/2024 19:05	67002	STHI_T2	2	18	16	0.1	0.11	0.01	0	0	0	0	0	0	0	0
11/4/2024 19:05	10705	CATA_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
11/4/2024 19:05	43302	WATS_T2	4	3	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/4/2024 19:05	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:05	57403	SPAN_T1	0	0	0	0	0	0	0.01	0.07	0	0	0	0	0	0
11/4/2024 19:05	54502	ENOL_T2	1	1	0	0.9	1	0.1	-2.07	-2.05	1	1	0	600	600	0
11/4/2024 19:05	54701	NEBL_T1	3	4	1	0.1	0.25	0.15	0	0	1	1	0	600	600	0
11/4/2024 19:05	67001	STHI_T2	150	245	95	0.18	0.2	0.02	0.03	0.04	0	0	0	0	0	0
11/4/2024 19:05	54603	SUMM_T2	0	0	0	0	0	0	-0.53	-0.48	1	1	0	900	900	0
11/4/2024 19:05	66505	SMAN_T2	3	3	0	0.6	0.73	0.13	0	0	0	0	0	0	0	0
11/4/2024 19:05	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:05	57201	ROSS_T1	6	27	21	0.1	0.21	0.11	0	0	0	0	0	0	0	0
11/4/2024 19:05	10702	CATA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/4/2024 19:05	67401	WAKE_T2	12	34	22	0.17	0.16	-0.01	-1.21	-1.15	0	0	0	0	0	0
11/4/2024 19:05	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:05	51602	DUKE_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
11/4/2024 19:05	57203	ROSS_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
11/4/2024 19:05	44801	EDAN_T2	27	39	12	0.17	0.25	0.08	-1	-0.96	0	0	0	0	0	0
11/4/2024 19:05	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
11/4/2024 19:05	62601	ENGL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:05	40602	PIGR_T1	1	1	0	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
11/4/2024 19:05	57401	SPAN_T1	2	2	0	1.05	1.25	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:05	62606	ENGL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:05	44802	EDAN_T2	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:05	43304	WATS_T2	0	5	5	0	0	0	-0.5	-0.52	0	0	0	0	0	0
11/4/2024 19:05	54601	SUMM_T2	8	11	3	0.38	0.55	0.17	0	0	0	0	0	0	0	0
11/4/2024 19:05	62605	ENGL_T1	0	0	0	0	0	0	-0.85	-0.83	0	0	0	0	0	0
11/4/2024 19:06	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
11/4/2024 19:06	44903	SCOT_T1	0	15	15	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:06	51603	DUKE_T1	1	1	0	0.1	0.1	0	-0.44	-0.44	0	0	0	0	0	0
11/4/2024 19:06	58402	MORO_T1	3	0	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/4/2024 19:06	43302	WATS_T2	4	3	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/4/2024 19:06	62601	ENGL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:06	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:06	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/4/2024 19:06	62606	ENGL_T1	0	3	3	0	0.1	0.1	-1.05	-1.07	1	1	0	900	900	0
11/4/2024 19:06	67503	WEWI_T2	1	1	0	6.7	6.9	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:06	66504	SMAN_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
11/4/2024 19:06	54001	SDLE_T1	1	4	3	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
11/4/2024 19:06	58401	MORO_T1	0	0	0	0	0	0	-1.76	-1.77	1	1	0	600	600	0
11/4/2024 19:06	67502	WEWI_T2	0	14	14	0	0.12	0.12	-0.96	-0.93	0	0	0	0	0	0
11/4/2024 19:06	43304	WATS_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:06	66505	SMAN_T2	3	3	0	0.6	0.73	0.13	0	0	0	0	0	0	0	0
11/4/2024 19:06	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:07	57401	SPAN_T1	2	2	0	1.05	1.25	0.2	0.27	0.25	0	0	0	0	0	0
11/4/2024 19:07	60803	BUCK_T1	16	24	8	0.46	0.53	0.07	-0.54	-0.55	1	1	0	600	600	0
11/4/2024 19:07	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:07	58401	MORO_T1	0	0	0	0	0	0	-1.76	-1.77	1	1	0	600	600	0
11/4/2024 19:07	52403	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:07	65003	NEFF_T2	107	124	17	0.23	0.24	0.01	-2.13	-2.21	2	2	0	1800	1800	0
11/4/2024 19:07	51603	DUKE_T1	1	1	0	0.1	0.1	0	-0.44	-0.44	0	0	0	0	0	0
11/4/2024 19:07	22405	MORG_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
11/4/2024 19:07	52402	GRPA_T2	3	3	0	0.4	0.6	0.2	-1.06	-1.09	0	0	0	0	0	0
11/4/2024 19:07	12302	LANA_T2	0	0	0	0	0	0	-1.75	-1.75	2	2	0	1500	1500	0
11/4/2024 19:07	58402	MORO_T1	3	0	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/4/2024 19:07	54601	SUMM_T2	8	11	3	0.38	0.55	0.17	-2.83	-2.97	2	2	0	2100	2100	0
11/4/2024 19:07	60801	BUCK_T1	46	57	11	0.35	0.46	0.11	0	0	0	0	0	0	0	0
11/4/2024 19:07	54502	ENOL_T2	1	1	0	0.9	1	0.1	-2.05	-2.05	1	1	0	600	600	0
11/4/2024 19:07	67401	WAKE_T2	12	34	22	0.17	0.16	-0.01	-1.15	-1.18	0	0	0	0	0	0
11/4/2024 19:07	12304	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:07	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	-1.38	-1.38	1	1	0	600	600	0
11/4/2024 19:07	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	900	900	0
11/4/2024 19:07	53501	EVIL_T2	1	2	1	0.4	0.4	0	-0.86	-0.89	1	1	0	600	600	0
11/4/2024 19:07	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/4/2024 19:07	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:07	63501	HEID_TBK1-2	52	34	-18	0.72	0.36	-0.36	-0.56	0.49	1	0	-1	900	0	-900
11/4/2024 19:08	54001	SDLE_T1	1	4	3	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
11/4/2024 19:08	44802	EDAN_T2	1	1	0	0	0.2	0.2	-0.9	-0.89	0	0	0	0	0	0
11/4/2024 19:08	46003	BERW_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/4/2024 19:08	46002	BERW_T2	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/4/2024 19:08	46001	BERW_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
11/4/2024 19:08	46004	BERW_T2	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
11/4/2024 19:08	59402	RFLD_T2	0	0	0	0	0	0	-0.89	-0.89	1	1	0	450	450	0
11/4/2024 19:08	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:08	20403	ASHF_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
11/4/2024 19:08	45802	HEGI_T2	1	14	13	0.4	0.32	-0.08	0	0	0	0	0	0	0	0
11/4/2024 19:08	20401	ASHF_T2	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
11/4/2024 19:08	44801	EDAN_T2	27	39	12	0.17	0.25	0.08	0	0	0	0	0	0	0	0
11/4/2024 19:08	67502	WEWI_T2	0	14	14	0	0.12	0.12	0	0	0	0	0	0	0	0
11/4/2024 19:08	44903	SCOT_T1	0	15	15	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:08	67503	WEWI_T2	1	1	0	6.7	6.9	0.2	-0.63	-0.63	0	0	0	0	0	0
11/4/2024 19:09	44901	SCOT_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:09	47001	HUGH_T2	3	3	0	7.73	7.9	0.17	-0.8	-0.83	0	0	0	0	0	0
11/4/2024 19:09	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:09	52402	GRPA_T2	3	3	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:09	44902	SCOT_T2	178	473	295	0.15	0.27	0.12	-0.89	-0.9	0	0	0	0	0	0
11/4/2024 19:09	62605	ENGL_T1	0	0	0	0	0	0	-0.83	-0.86	0	0	0	0	0	0
11/4/2024 19:09	58402	MORO_T1	3	0	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/4/2024 19:09	52403	GRPA_T2	0	2	2	0	0.1	0.1	-0.08	-0.06	0	0	0	0	0	0
11/4/2024 19:09	57203	ROSS_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
11/4/2024 19:09	62606	ENGL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:09	57201	ROSS_T1	6	27	21	0.1	0.21	0.11	0	0	0	0	0	0	0	0
11/4/2024 19:09	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.28	-0.27	0	0	0	0	0	0
11/4/2024 19:09	62601	ENGL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:09	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.01	0	1	1	0	300	300
11/4/2024 19:09	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:09	58401	MORO_T1	0	0	0	0	0	0	-1.76	-1.77	1	1	0	600	600	0
11/4/2024 19:09	67401	WAKE_T2	12	34	22	0.17	0.16	-0.01	-1.15	-1.18	0	0	0	0	0	0
11/4/2024 19:09	44502	HAMI_T2	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
11/4/2024 19:09	57205	ROSS_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
11/4/2024 19:10	50701	SMEC_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
11/4/2024 19:10	63804	HEMP_T1	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
11/4/2024 19:10	58401	MORO_T1	0	0	0	0	0	0	-1.76	-1.77	1	1	0	600	600	0
11/4/2024 19:10	58402	MORO_T1	3	0	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/4/2024 19:10	51603	DUKE_T1	1	1	0	0.1	0.1	0	-0.44	-0.44	0	0	0	0	0	0
11/4/2024 19:10	58803	COCO_T1	1	1	0	2.4	2.5	0.1	-0.8	-0.75	0	0	0	0	0	0
11/4/2024 19:10	45402	WBLO_T2	281	323	42	0.77	0.84	0.07	-0.87	-0.83	0	0	0	0	0	0
11/4/2024 19:10	64802	MONE_T2	45	28	-17	0.25	0.17	-0.08	-0.01	-0.01	0	0	0	0	0	0
11/4/2024 19:10	57401	SPAN_T1	2	2	0	1.05	1.25	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:10	57403	SPAN_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
11/4/2024 19:10	63801	HEMP_T1	0	0	0	0	0	0	-0.04	-0.14	0	0	0	0	0	0
11/4/2024 19:11	44903	SCOT_T1	0	15	15	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:11	58401	MORO_T1	0	0	0	0	0	0	-1.76	-1.77	1	1	0	600	600	0
11/4/2024 19:11	44802	EDAN_T2	1	1	0	0	0.2	0.2	-0.9	-0.89	0	0	0	0	0	0
11/4/2024 19:11	51109	CARL_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/4/2024 19:11	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:11	65207	PRIN_T4	14	7	-7	0.51	0.3	-0.21	0	0	0	0	0	0	0	0
11/4/2024 19:11	51101	CARL_T1	1	1	0	4.9	4.7	-0.2	0	0	0	0	0	0	0	0
11/4/2024 19:11	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:11	51102	CARL_T1	50	117	67	0.17	0.32	0.15	0	0	0	0	0	0	0	0
11/4/2024 19:11	58402	MORO_T1	3	0	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/4/2024 19:11	44801	EDAN_T2	27	39	12	0.17	0.25	0.08	0	0	0	0	0	0	0	0
11/4/2024 19:11	65206	PRIN_T4	0	1	1	0	4	4	0	0	0	0	0	0	0	0
11/4/2024 19:11	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:11	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:11	51108	CARL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:11	60803	BUCK_T1	16	24	8	0.46	0.53	0.07	0	0	0	0	0	0	0	0
11/4/2024 19:11	57401	SPAN_T1	2	2	0	1.05	1.25	0.2	0.27	0.25	0	0	0	0	0	0
11/4/2024 19:11	60801	BUCK_T1	46	57	11	0.35	0.46	0.11	-0.23	-0.24	0	0	0	0	0	0
11/4/2024 19:11	51107	CARL_T1	0	14	14	0	0.12	0.12	0	0	0	0	0	0	0	0
11/4/2024 19:12	14203	EALL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:12	56504	ROCK_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
11/4/2024 19:12	58803	COCO_T1	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:12	46802	HEPB_T1	1	1	0	0.3	0.5	0.2	-0.28	-0.28	0	0	0	0	0	0
11/4/2024 19:12	14201	EALL_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
11/4/2024 19:12	63501	HEID_TBK1-2	52	34	-18	0.72	0.36	-0.36	-0.56	0.49	1	0	-1	900	0	-900
11/4/2024 19:12	56501	ROCK_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
11/4/2024 19:12	15702	TANN_T2	2	1	-1	0.1	0.1	0	-0.42	-0.42	0	0	0	0	0	0
11/4/2024 19:12	15703	TANN_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
11/4/2024 19:12	43304	WATS_T2	0	5	5	0	0	0	-0.52	-0.49	0	0	0	0	0	0
11/4/2024 19:12	43302	WATS_T2	4	3	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/4/2024 19:13	65205	PRIN_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
11/4/2024 19:13	65202	PRIN_T1	1	0	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/4/2024 19:13	64904	MILL_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
11/4/2024 19:13	29402	BELT_T1	1	2	1	7.2	7.3	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:13	44902	SCOT_T2	178	473	295	0.15	0.27	0.12	0	0	0	0	0	0	0	0
11/4/2024 19:13	44802	EDAN_T2	1	1	0	0	0.2	0.2	-0.9	-0.89	0	0	0	0	0	0
11/4/2024 19:13	44801	EDAN_T2	27	39	12	0.17	0.25	0.08	0	0	0	0	0	0	0	0
11/4/2024 19:13	29401	BELT_T1	6	15	9	0.1	0.12	0.02	0	0	1	1	0	900	900	0
11/4/2024 19:13	44901	SCOT_T2	0	1	1	0	0.1	0.1	-0.02	-0.1	0	0	0	0	0	0
11/4/2024 19:14	43302	WATS_T2	4	3	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/4/2024 19:14	43304	WATS_T2	0	5	5	0	0	0	-0.52	-0.49	0	0	0	0	0	0
11/4/2024 19:14	45702	LIND_T2	1	1	0	1.3	1.3	0	-0.64	-0.67	0	0	0	0	0	0
11/4/2024 19:14	44802	EDAN_T2	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:14	10101	ALLE_T3	2	2	0	2.85	3.45	0.6	0	0	0	0	0	0	0	0
11/4/2024 19:14	44801	EDAN_T2	27	39	12	0.17	0.25	0.08	-1.45	-1.5	0	0	0	0	0	0
11/4/2024 19:14	53501	EVIL_T2	1	2	1	0.4	0.4	0	-0.86	-0.89	1	1	0	600	600	0
11/4/2024 19:14	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:15	66504	SMAN_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
11/4/2024 19:15	57401	SPAN_T1	2	2	0	1.25	1.15	-0.1	0.27	0.25	0	0	0	0	0	0
11/4/2024 19:15	66505	SMAN_T2	3	3	0	0.53	0.97	0.44	0	0	0	0	0	0	0	0
11/4/2024 19:15	52502	PROG_T2	0	0	0	0	0	0	0.25	0.2	0	0	0	0	0	0
11/4/2024 19:15	43801	SWIL_T1	35	59	24	0.37	0.32	-0.05	0	0	0	0	0	0	0	0
11/4/2024 19:15	43302	WATS_T2	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
11/4/2024 19:15	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
11/4/2024 19:15	43304	WATS_T2	0	6	6	0	0.25	0.25	-0.52	-0.49	0	0	0	0	0	0
11/4/2024 19:15	43802	SWIL_T1	0	0	0	0	0	0	-0.12	-0.13	1	1	0	600	600	0
11/4/2024 19:16	43304	WATS_T2	0	6	6	0	0.25	0.25	0	0	0	0	0	0	0	0
11/4/2024 19:16	43302	WATS_T2	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
11/4/2024 19:17	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:17	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:17	55002	NEWP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/4/2024 19:18	52404	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:18	44701	MUNC_T2	123	54	-69	0.25	0.17	-0.08	0	0	0	0	0	0	0	0
11/4/2024 19:18	59301	MCAL_T1	1	1	0	0.1	0.2	0.1	-1.28	-1.29	0	0	0	0	0	0
11/4/2024 19:18	67505	WEWI_T1	0	0	0	0	0	0	-0.09	-0.1	1	1	0	900	900	0
11/4/2024 19:18	44703	MUNC_T2	2	2	0	1.2	1.35	0.15	0	0	0	0	0	0	0	0
11/4/2024 19:18	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:18	52402	GRPA_T2	3	3	0	0.6	0.67	0.07	-1.06	-1.09	0	0	0	0	0	0
11/4/2024 19:18	44702	MUNC_T2	114	100	-14	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
11/4/2024 19:18	59302	MCAL_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/4/2024 19:18	52403	GRPA_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:19	53501	EVIL_T2	2	1	-1	0.4	0.4	0	-0.86	-0.89	1	1	0	600	600	0
11/4/2024 19:19	59302	MCAL_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/4/2024 19:19	59301	MCAL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:20	55001	NEWP_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
11/4/2024 19:20	52402	GRPA_T2	3	3	0	0.6	0.67	0.07	0	0	0	0	0	0	0	0
11/4/2024 19:20	52404	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:20	52403	GRPA_T2	2	2	0	0.1	0.2	0.1	-0.08	-0.06	0	0	0	0	0	0
11/4/2024 19:20	55002	NEWP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/4/2024 19:21	20603	GRWO_T2	25	30	5	0.32	0.35	0.03	0.34	0.35	0	0	0	0	0	0
11/4/2024 19:21	20601	GRWO_T2	8	43	35	0.13	0.17	0.04	0	0	0	0	0	0	0	0
11/4/2024 19:22	52403	GRPA_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:22	52404	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:22	52402	GRPA_T2	3	3	0	0.6	0.67	0.07	-1.09	-1.09	0	0	0	0	0	0
11/4/2024 19:31	65502	MOJO_T2	9	272	263	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/4/2024 19:31	65004	NEFF_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
11/4/2024 19:31	65503	MOJO_T2	0	35	35	0	0.11	0.11	0	0	0	0	0	0	0	0
11/4/2024 19:31	65003	NEFF_T2	112	2	-110	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
11/4/2024 19:39	24902	WHHA_T1	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/4/2024 19:39	24901	WHHA_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
11/4/2024 19:41	62604	ENGL_T1	0	0	0	0	0	0	-0.3	-0.5	0	0	0	0	0	0
11/4/2024 19:41	24902	WHHA_T1	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/4/2024 19:41	24901	WHHA_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
11/4/2024 19:41	62606	ENGL_T1	0	29	29	0	0.12	0.12	0	0	0	0	0	0	0	0
11/4/2024 19:42	57401	SPAN_T1	2	2	0	1.05	1.15	0.1	0.28	0.26	0	0	0	0	0	0
11/4/2024 19:44	59302	MCAL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/4/2024 19:44	59301	MCAL_T1	0	2	2	0	0.85	0.85	-1.28	-1.32	0	0	0	0	0	0
11/4/2024 19:46	24902	WHHA_T1	1	0	-1	0.1	0	-0.1	0.72	0.72	0	0	0	0	0	0
11/4/2024 19:46	15203	SFAR_T2	0	0	0	0	0	0	-1.39	-1.36	0	0	0	0	0	0
11/4/2024 19:47	17805	GILB_T2	0	0	0	0	0	0	-0.22	-0.18	0	0	0	0	0	0
11/4/2024 19:49	10702	CATA_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:49	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:49	11301	EMMA_T1	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
11/4/2024 19:49	17002	RIRO_T2	158	251	93	0.2	0.22	0.02	0.32	0.3	0	0	0	0	0	0
11/4/2024 19:49	23201	HIRU_T2	2	3	1	0.2	0.23	0.03	0.15	0.16	0	0	0	0	0	0
11/4/2024 19:49	10705	CATA_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
11/4/2024 19:50	22405	MORG_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
11/4/2024 19:50	64302	LINC_T2	0	0	0	0	0	0	1.02	0.96	0	0	0	0	0	0
11/4/2024 19:50	54601	SUMM_T2	11	8	-3	0.47	0.4	-0.07	-2.97	-3.01	2	2	0	2100	2100	0
11/4/2024 19:51	23203	HIRU_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
11/4/2024 19:51	14802	TREI_T2	0	0	0	0	0	0	0.35	0.38	0	0	0	0	0	0
11/4/2024 19:51	17805	GILB_T2	0	0	0	0	0	0	-0.22	-0.18	0	0	0	0	0	0
11/4/2024 19:51	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:51	23201	HIRU_T2	2	3	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
11/4/2024 19:51	10903	COOP_T2	0	0	0	0	0	0	-0.42	-0.42	1	1	0	600	600	0
11/4/2024 19:51	10702	CATA_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:52	17802	GILB_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
11/4/2024 19:52	46002	BERW_T2	2	3	1	0.1	0.1	0	-1.18	-0.18	1	0	-1	900	0	-900
11/4/2024 19:52	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:52	46003	BERW_T2	4	2	-2	0.13	0.2	0.07	0	0	0	0	0	0	0	0
11/4/2024 19:52	46004	BERW_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
11/4/2024 19:52	60101	COCA_T1	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
11/4/2024 19:52	10101	ALLE_T3	2	2	0	4.3	5.4	1.1	0	0	0	0	0	0	0	0
11/4/2024 19:52	48901	FOSP_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
11/4/2024 19:53	67503	WEWI_T2	1	13	12	7	0.64	-6.36	0	0	0	0	0	0	0	0
11/4/2024 19:53	10705	CATA_T2	0	0	0	0	0	0	-0.07	-0.03	0	0	0	0	0	0
11/4/2024 19:53	11903	ETEX_T1	0	0	0	0	0	0	0.37	0.32	0	0	0	0	0	0
11/4/2024 19:53	24202	PROV_T4	74	179	105	0.24	0.26	0.02	-0.78	-0.77	1	1	0	1200	1200	0
11/4/2024 19:53	66505	SMAN_T2	3	3	0	0.97	1.3	0.33	0	0	0	0	0	0	0	0
11/4/2024 19:53	66504	SMAN_T2	0	0	0	0	0	0	-1.09	-0.78	0	0	0	0	0	0
11/4/2024 19:53	17802	GILB_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
11/4/2024 19:53	67502	WEWI_T2	0	52	52	0	0.14	0.14	-0.49	-0.42	0	0	0	0	0	0
11/4/2024 19:53	24203	PROV_T4	0	23	23	0	0.13	0.13	0	0	0	0	0	0	0	0
11/4/2024 19:53	54601	SUMM_T2	11	8	-3	0.47	0.4	-0.07	-3.01	-3.02	2	2	0	2100	2100	0
11/4/2024 19:53	24206	PROV_T4	4	41	37	0.1	0.14	0.04	0	0	0	0	0	0	0	0
11/4/2024 19:53	10702	CATA_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:54	67002	STHI_T2	9	65	56	0.11	0.14	0.03	0.53	0.54	0	0	0	0	0	0
11/4/2024 19:54	14802	TREI_T2	0	0	0	0	0	0	0.35	0.38	0	0	0	0	0	0
11/4/2024 19:54	20403	ASHF_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
11/4/2024 19:54	67001	STHI_T2	261	486	225	0.14	0.21	0.07	0	0	0	0	0	0	0	0
11/4/2024 19:54	66202	SISP_T2	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
11/4/2024 19:54	10702	CATA_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:54	10705	CATA_T2	0	0	0	0	0	0	-0.07	-0.03	0	0	0	0	0	0
11/4/2024 19:54	13101	NHAM_T1	0	0	0	0	0	0	-2.64	-2.66	2	2	0	2400	2400	0
11/4/2024 19:54	13303	ORVI_T1	0	0	0	0	0	0	0.86	0.89	0	0	0	0	0	0
11/4/2024 19:54	20401	ASHF_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:54	63501	HEID_TBK1-2	1	2	1	1.6	0.8	-0.8	0.5	0.47	0	0	0	0	0	0
11/4/2024 19:54	61701	ELIZ_T1	1	1	0	5.2	5	-0.2	0.24	0.18	0	0	0	0	0	0
11/4/2024 19:54	20802	LOPO_T1	1	0	-1	0.4	0	-0.4	-0.55	-0.55	1	1	0	600	600	0
11/4/2024 19:55	23401	HONE_T2	2	2	0	0.65	0.3	-0.35	-0.04	-0.09	0	0	0	0	0	0
11/4/2024 19:55	12807	MICK_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:55	11202	ELHE_T2	0	0	0	0	0	0	0.4	0.39	1	1	0	1200	1200	0
11/4/2024 19:55	15702	TANN_T2	0	2	2	0	0.1	0.1	-0.44	-0.44	0	0	0	0	0	0
11/4/2024 19:55	15703	TANN_T2	1	3	2	5	1.7	-3.3	0	0	0	0	0	0	0	0
11/4/2024 19:55	12803	MICK_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
11/4/2024 19:55	60101	COCA_T1	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
11/4/2024 19:55	12801	MICK_T1	0	0	0	0	0	0	-0.32	-0.31	1	1	0	600	600	0
11/4/2024 19:55	46602	LACR_T1	0	0	0	0	0	0	-1.24	-1.2	0	0	0	0	0	0
11/4/2024 19:55	44902	SCOT_T2	376	512	136	0.21	0.29	0.08	0	0	0	0	0	0	0	0
11/4/2024 19:55	44901	SCOT_T2	0	2	2	0	0.1	0.1	-0.03	0	0	0	0	0	0	0
11/4/2024 19:55	46001	BERW_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
11/4/2024 19:55	29402	BELT_T1	2	2	0	4.8	4.8	0	0	0	0	0	0	0	0	0
11/4/2024 19:55	67002	STHI_T2	9	65	56	0.11	0.14	0.03	1.59	1.62	0	0	0	0	0	0
11/4/2024 19:55	23201	HIRU_T2	2	3	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
11/4/2024 19:55	10705	CATA_T2	0	0	0	0	0	0	-0.07	-0.03	0	0	0	0	0	0
11/4/2024 19:55	15001	BLMO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:55	29401	BELT_T1	14	41	27	0.12	0.18	0.06	0	0	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/4/2024 19:55	10702	CATA_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:55	67001	STHI_T2	261	486	225	0.14	0.21	0.07	0	0	0	0	0	0	0	0
11/4/2024 19:55	24902	WHHA_T1	1	0	-1	0.1	0	-0.1	0.72	0.69	0	0	0	0	0	0
11/4/2024 19:55	23203	HIRU_T2	0	0	0	0	0	0	0.05	-0.05	0	0	0	0	0	0
11/4/2024 19:56	54505	ENOL_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
11/4/2024 19:56	54504	ENOL_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
11/4/2024 19:56	54502	ENOL_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
11/4/2024 19:56	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
11/4/2024 19:56	40501	CRES_T2	7	10	3	0.3	0.39	0.09	0	0	0	0	0	0	0	0
11/4/2024 19:56	67002	STHI_T2	9	65	56	0.11	0.14	0.03	0.53	0.54	0	0	0	0	0	0
11/4/2024 19:56	55002	NEWP_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
11/4/2024 19:56	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.95	1	1	0	900	900	0
11/4/2024 19:56	40502	CRES_T2	26	71	45	0.33	0.37	0.04	-0.35	-0.38	0	0	0	0	0	0
11/4/2024 19:56	54001	SDLE_T1	3	7	4	0.37	0.31	-0.06	0	0	0	0	0	0	0	0
11/4/2024 19:56	63501	HEID_TBK1-2	1	2	1	1.6	0.8	-0.8	1	0.94	0	0	0	0	0	0
11/4/2024 19:56	67001	STHI_T2	261	486	225	0.14	0.21	0.07	0.02	0.02	0	0	0	0	0	0
11/4/2024 19:56	67401	WAKE_T2	25	46	21	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
11/4/2024 19:56	55001	NEWP_T1	0	1	1	0	0	0	-0.42	-0.42	0	0	0	0	0	0
11/4/2024 19:56	60301	TWVA_T2	0	0	0	0	0	0	-6.96	-6.91	4	4	0	3600	3600	0
11/4/2024 19:57	67103	SPRI_T1	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
11/4/2024 19:57	67503	WEWI_T2	1	13	12	7	0.64	-6.36	-0.65	-0.66	0	0	0	0	0	0
11/4/2024 19:57	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:57	62607	ENGL_T1	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
11/4/2024 19:57	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:57	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/4/2024 19:57	40702	FFLD_T1	197	197	0	0.57	0.63	0.06	0	0	0	0	0	0	0	0
11/4/2024 19:57	54502	ENOL_T2	1	1	0	0.9	0.5	-0.4	-2.09	-2.08	1	1	0	600	600	0
11/4/2024 19:57	62606	ENGL_T1	29	0	-29	0.12	0	-0.12	0	0	0	0	0	0	0	0
11/4/2024 19:57	40703	FFLD_T1	4	4	0	0.93	0.95	0.02	0	0	0	0	0	0	0	0
11/4/2024 19:57	10705	CATA_T2	0	0	0	0	0	0	-0.07	-0.03	0	0	0	0	0	0
11/4/2024 19:57	44502	HAMI_T2	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:57	22901	HARW_T1	0	0	0	0	0	0	-0.51	-0.53	1	1	0	1200	1200	0
11/4/2024 19:57	54505	ENOL_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
11/4/2024 19:57	60801	BUCK_T1	45	48	3	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
11/4/2024 19:57	10702	CATA_T2	1	1	0	0.4	0.6	0.2	-0.96	-0.95	0	0	0	0	0	0
11/4/2024 19:57	24702	FLND_T2	0	0	0	0	0	0	-0.2	-0.32	1	1	0	1200	1200	0
11/4/2024 19:57	67001	STHI_T2	261	486	225	0.14	0.21	0.07	0	0	0	0	0	0	0	0
11/4/2024 19:57	10801	CHHI_T1	0	0	0	0	0	0	-1.67	-1.66	2	2	0	1500	1500	0
11/4/2024 19:57	60803	BUCK_T1	21	20	-1	0.56	0.55	-0.01	-0.57	-0.57	1	1	0	600	600	0
11/4/2024 19:57	62605	ENGL_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
11/4/2024 19:57	40701	FFLD_T1	79	79	0	0.69	0.77	0.08	0	0	0	0	0	0	0	0
11/4/2024 19:57	14802	TREI_T2	0	0	0	0	0	0	0.35	0.38	0	0	0	0	0	0
11/4/2024 19:57	67002	STHI_T2	9	65	56	0.11	0.14	0.03	1.06	1.08	0	0	0	0	0	0
11/4/2024 19:57	48901	FOSP_T2	0	0	0	0	0	0	0.52	0.56	0	0	0	0	0	0
11/4/2024 19:57	54701	NEBL_T1	2	5	3	0.1	0.26	0.16	0	0	1	1	0	600	600	0
11/4/2024 19:57	44505	HAMI_T2	0	0	0	0	0	0	0.43	0.37	0	0	0	0	0	0
11/4/2024 19:57	67502	WEWI_T2	0	52	52	0	0.14	0.14	-0.49	-0.42	0	0	0	0	0	0
11/4/2024 19:57	22905	HARW_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
11/4/2024 19:58	20403	ASHF_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
11/4/2024 19:58	15703	TANN_T2	1	3	2	5	1.7	-3.3	0	0	0	0	0	0	0	0
11/4/2024 19:58	50623	CCTY_T2	5	5	0	5.82	5.8	-0.02	0	0	0	0	0	0	0	0
11/4/2024 19:58	64801	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/4/2024 19:58	20401	ASHF_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:58	20601	GRWO_T2	43	100	57	0.17	0.28	0.11	0	0	0	0	0	0	0	0
11/4/2024 19:58	67002	STHI_T2	9	65	56	0.11	0.14	0.03	0	0	0	0	0	0	0	0
11/4/2024 19:58	50625	CCTY_T2	5	5	0	2.62	2.74	0.12	0	0	0	0	0	0	0	0
11/4/2024 19:58	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
11/4/2024 19:58	58001	WCAR_T1	4	4	0	0.9	1.28	0.38	0	0	0	0	0	0	0	0
11/4/2024 19:58	60803	BUCK_T1	21	20	-1	0.56	0.55	-0.01	0	0	0	0	0	0	0	0
11/4/2024 19:58	62607	ENGL_T1	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
11/4/2024 19:58	64802	MONE_T2	49	60	11	0.2	0.22	0.02	0	0	0	0	0	0	0	0
11/4/2024 19:58	54001	SDLE_T1	3	7	4	0.37	0.31	-0.06	0	0	0	0	0	0	0	0
11/4/2024 19:58	44903	SCOT_T1	15	24	9	0.1	0.25	0.15	0.36	0.34	0	0	0	0	0	0
11/4/2024 19:58	66504	SMAN_T2	0	0	0	0	0	0	-0.55	-0.39	0	0	0	0	0	0
11/4/2024 19:58	48901	FOSP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:58	60801	BUCK_T1	45	48	3	0.44	0.43	-0.01	-0.24	-0.24	0	0	0	0	0	0
11/4/2024 19:58	10705	CATA_T2	0	0	0	0	0	0	-0.14	-0.05	0	0	0	0	0	0
11/4/2024 19:58	50624	CCTY_T2	2	2	0	5.8	5.8	0	0	0	0	0	0	0	0	0
11/4/2024 19:58	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:58	62606	ENGL_T1	29	0	-29	0.12	0	-0.12	0	0	0	0	0	0	0	0
11/4/2024 19:58	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	0	-1	1200	0	-1200
11/4/2024 19:58	53501	EVIL_T2	1	1	0	0.4	0.4	0	-0.9	-0.8	1	1	0	600	600	0
11/4/2024 19:58	40502	CRES_T2	26	71	45	0.33	0.37	0.04	-0.35	-0.38	0	0	0	0	0	0
11/4/2024 19:58	67503	WEWI_T2	1	13	12	7	0.64	-6.36	-0.65	-0.66	0	0	0	0	0	0
11/4/2024 19:58	40501	CRES_T2	7	10	3	0.3	0.39	0.09	0	0	0	0	0	0	0	0
11/4/2024 19:58	58003	WCAR_T1	1	1	0	1.6	1.4	-0.2	0	0	2	2	0	1200	1200	0
11/4/2024 19:58	10702	CATA_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:58	45802	HEGI_T2	21	27	6	0.52	0.5	-0.02	0	0	0	0	0	0	0	0
11/4/2024 19:58	15702	TANN_T2	0	2	2	0	0.1	0.1	-0.44	-0.44	0	0	0	0	0	0
11/4/2024 19:58	67502	WEWI_T2	0	52	52	0	0.14	0.14	-0.49	-0.42	0	0	0	0	0	0
11/4/2024 19:58	54502	ENOL_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
11/4/2024 19:58	23401	HONE_T2	2	2	0	0.65	0.3	-0.35	-0.04	-0.09	0	0	0	0	0	0
11/4/2024 19:58	66505	SMAN_T2	3	3	0	0.97	1.3	0.33	0	0	0	0	0	0	0	0
11/4/2024 19:58	54505	ENOL_T2	1	1	0	1	0.7	-0.3	-1.37	-1.36	1	1	0	600	600	0
11/4/2024 19:58	20603	GRWO_T2	29	71	42	0.35	0.32	-0.03	0.32	0.3	0	0	0	0	0	0
11/4/2024 19:58	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.35	0	0	0	0	0	0
11/4/2024 19:58	45501	DERR_T2	0	0	0	0	0	0	0.82	0.5	2	2	0	1800	1800	0
11/4/2024 19:58	67001	STHI_T2	261	486	225	0.14	0.21	0.07	0.02	0.02	0	0	0	0	0	0
11/4/2024 19:59	24205	PROV_T3	4	4	0	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
11/4/2024 19:59	62607	ENGL_T1	0	0	0	0	0	0	-1.72	-1.72	0	0	0	0	0	0
11/4/2024 19:59	45302	WBER_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
11/4/2024 19:59	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:59	10702	CATA_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:59	58803	COCO_T1	1	1	0	2.5	2.6	0.1	0	0	0	0	0	0	0	0
11/4/2024 19:59	54501	ENOL_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
11/4/2024 19:59	45303	WBER_T2	9	9	0	1.29	1.29	0	0	0	0	0	0	0	0	0
11/4/2024 19:59	53501	EVIL_T2	1	1	0	0.4	0.4	0	-0.9	-0.8	1	1	0	600	600	0
11/4/2024 19:59	51102	CARL_T1	118	71	-47	0.3	0.19	-0.11	0	0	0	0	0	0	0	0
11/4/2024 19:59	10206	ALLE_T2	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
11/4/2024 19:59	54505	ENOL_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
11/4/2024 19:59	44802	EDAN_T2	1	1	0	0.2	0.3	0.1	-0.87	-0.92	0	0	0	0	0	0
11/4/2024 19:59	57201	ROSS_T1	49	66	17	0.18	0.23	0.05	-0.76	-0.78	0	0	0	0	0	0
11/4/2024 19:59	59201	THOM_T1	15	16	1	0.27	0.28	0.01	0	0	0	0	0	0	0	0
11/4/2024 19:59	52402	GRPA_T2	3	3	0	0.67	1	0.33	0	0	0	0	0	0	0	0
11/4/2024 19:59	54503	ENOL_T2	0	0	0	0	0	0	-0.47	-0.46	1	1	0	600	600	0
11/4/2024 19:59	62606	ENGL_T1	29	0	-29	0.12	0	-0.12	0	0	0	0	0	0	0	0
11/4/2024 19:59	67602	WARW_T2	0	0	0	0	0	0	-0.02	-0.02	2	2	0	600	600	0
11/4/2024 19:59	60801	BUCK_T1	45	48	3	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
11/4/2024 19:59	67503	WEWI_T2	1	13	12	7	0.64	-6.36	0	0	0	0	0	0	0	0
11/4/2024 19:59	14704	TREX_T1	1	1	0	4.2	4	-0.2	0	0	0	0	0	0	0	0
11/4/2024 19:59	14705	TREX_T1	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
11/4/2024 19:59	44801	EDAN_T2	38	57	19	0.24	0.26	0.02	0	0	0	0	0	0	0	0
11/4/2024 19:59	24201	PROV_T3	1	1	0	7	7	0	-0.14	-0.14	0	0	0	0	0	0
11/4/2024 19:59	59202	THOM_T1	42	110	68	0.19	0.17	-0.02	0	0	0	0	0	0	0	0
11/4/2024 19:59	51602	DUKE_T2	0	0	0	0	0	0	-0.28	-0.33	0	0	0	0	0	0
11/4/2024 19:59	66505	SMAN_T2	3	3	0	0.97	1.3	0.33	-0.31	-0.36	1	1	0	900	900	0
11/4/2024 19:59	15703	TANN_T2	1	3	2	5	1.7	-3.3	0	0	0	0	0	0	0	0
11/4/2024 19:59	63501	HEID_TBK1-2	1	2	1	1.6	0.8	-0.8	0.5	0.47	0	0	0	0	0	0
11/4/2024 19:59	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:59	10102	ALLE_T2	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
11/4/2024 19:59	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:59	51107	CARL_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/4/2024 19:59	48901	FOSP_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
11/4/2024 19:59	52404	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:59	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.35	0	0	0	0	0	0
11/4/2024 19:59	51101	CARL_T1	1	1	0	4.6	4.8	0.2	0	0	0	0	0	0	0	0
11/4/2024 19:59	60803	BUCK_T1	21	20	-1	0.56	0.55	-0.01	-0.57	-0.57	1	1	0	600	600	0
11/4/2024 19:59	15702	TANN_T2	0	2	2	0	0.1	0.1	-0.44	-0.44	0	0	0	0	0	0
11/4/2024 19:59	62601	ENGL_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
11/4/2024 19:59	51108	CARL_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/4/2024 19:59	57402	SPAN_T2	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
11/4/2024 19:59	21206	ECAR_T2	1	1	0	7.8	8.2	0.4	0.09	0.08	0	0	0	0	0	0
11/4/2024 19:59	10705	CATA_T2	0	0	0	0	0	0	-0.07	-0.03	0	0	0	0	0	0
11/4/2024 19:59	54601	SUMM_T2	11	8	-3	0.47	0.4	-0.07	-3.01	-3.02	2	2	0	2100	2100	0
11/4/2024 19:59	67502	WEWI_T2	0	52	52	0	0.14	0.14	-0.49	-0.42	0	0	0	0	0	0
11/4/2024 19:59	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	0	-1	1200	0	-1200
11/4/2024 19:59	46602	LACR_T1	0	0	0	0	0	0	-1.24	-1.2	0	0	0	0	0	0
11/4/2024 19:59	24204	PROV_T3	11	12	1	0.65	0.61	-0.04	0	0	0	0	0	0	0	0
11/4/2024 19:59	54502	ENOL_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
11/4/2024 19:59	44903	SCOT_T1	15	24	9	0.1	0.25	0.15	0	0	0	0	0	0	0	0
11/4/2024 19:59	52403	GRPA_T2	2	2	0	0.2	0.5	0.3	-0.19	-0.17	0	0	0	0	0	0
11/4/2024 19:59	14801	TREI_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
11/4/2024 19:59	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 19:59	64305	LINC_T1	0	0	0	0	0	0	-0.59	-0.66	0	0	0	0	0	0
11/4/2024 20:01	60101	COCA_T1	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
11/4/2024 20:13	57401	SPAN_T1	2	2	0	0.8	1.15	0.35	0.3	0.3	0	0	0	0	0	0
11/4/2024 20:39	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/4/2024 20:39	65004	NEFF_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
11/4/2024 20:53	62607	ENGL_T1	9	152	143	0.1	0.14	0.04	0	0	0	0	0	0	0	0
11/4/2024 20:53	62605	ENGL_T1	20	90	70	0.12	0.19	0.07	0	0	0	0	0	0	0	0
11/4/2024 20:53	62602	ENGL_T1	2	14	12	0.15	0.16	0.01	0	0	0	0	0	0	0	0
11/4/2024 20:53	62604	ENGL_T1	4	16	12	0.15	0.19	0.04	0	0	0	0	0	0	0	0
11/4/2024 20:53	62606	ENGL_T1	48	168	120	0.11	0.25	0.14	-1.07	-1.11	1	1	0	900	900	0
11/4/2024 21:22	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2024 21:42	67503	WEWI_T2	1	1	0	8.2	8.5	0.3	-0.55	-0.58	0	0	0	0	0	0
11/4/2024 21:42	67502	WEWI_T2	165	49	-116	0.24	0.14	-0.1	0	0	0	0	0	0	0	0
11/4/2024 21:48	28403	HART_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
11/4/2024 23:13	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 0:13	24102	EHAZ_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
11/5/2024 0:13	24105	EHAZ_T1	4	4	0	5.75	6.55	0.8	0	0	0	0	0	0	0	0
11/5/2024 0:13	24101	EHAZ_T1	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
11/5/2024 7:38	57403	SPAN_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
11/5/2024 7:40	40504	CRES_T1	0	0	0	0	0	0	-0.62	-0.58	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/5/2024 7:43	20601	GRWO_T2	1	1	0	1.2	0	-1.2	1.06	1.03	0	0	0	0	0	0
11/5/2024 7:43	23901	EFMO_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
11/5/2024 7:44	40504	CRES_T1	0	0	0	0	0	0	-0.62	-0.58	0	0	0	0	0	0
11/5/2024 7:46	45501	DERR_T2	1	1	0	0.3	0.1	-0.2	0.76	0.79	2	2	0	1800	1800	0
11/5/2024 7:55	45501	DERR_T2	1	1	0	0.3	0.1	-0.2	0.79	0.72	2	2	0	1800	1800	0
11/5/2024 8:01	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 8:01	10101	ALLE_T3	2	2	0	3.55	3	-0.55	0	0	0	0	0	0	0	0
11/5/2024 8:02	64903	MILL_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
11/5/2024 8:02	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 8:02	64902	MILL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/5/2024 8:02	10101	ALLE_T3	2	2	0	3.55	3	-0.55	0	0	0	0	0	0	0	0
11/5/2024 8:04	64903	MILL_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
11/5/2024 8:04	64902	MILL_T2	0	1	1	0	0.1	0.1	-0.8	-0.76	1	1	0	900	900	0
11/5/2024 8:05	43202	MVIL_T2	44	93	49	0.24	0.95	0.71	-0.61	-0.59	0	0	0	0	0	0
11/5/2024 8:06	57403	SPAN_T1	0	158	158	0	0.44	0.44	0	0	0	0	0	0	0	0
11/5/2024 8:06	57401	SPAN_T1	0	49	49	0	0.17	0.17	-2.19	-2.16	2	2	0	1200	1200	0
11/5/2024 8:09	15204	SFAR_T2	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
11/5/2024 8:11	28102	TWLA_T2	5	5	0	0.6	0.48	-0.12	0.18	0.17	0	0	0	0	0	0
11/5/2024 8:13	44802	EDAN_T2	0	471	471	0	0.24	0.24	0	0	0	0	0	0	0	0
11/5/2024 8:13	44301	BEAV_T2	1	1	0	0.3	0	-0.3	0.02	-0.18	2	2	0	1500	1500	0
11/5/2024 8:13	44801	EDAN_T2	2	298	296	0.6	0.39	-0.21	-0.42	-0.46	0	0	0	0	0	0
11/5/2024 8:16	28102	TWLA_T2	3	5	2	0.47	0.64	0.17	0.18	0.17	0	0	0	0	0	0
11/5/2024 8:17	45702	LIND_T2	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
11/5/2024 8:19	45701	LIND_T2	0	0	0	0	0	0	-1.69	-1.69	0	0	0	0	0	0
11/5/2024 8:20	15203	SFAR_T2	0	0	0	0	0	0	-1.45	-1.46	0	0	0	0	0	0
11/5/2024 8:22	27302	PARR_T1	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
11/5/2024 8:23	13303	ORVI_T1	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
11/5/2024 8:23	55001	NEWP_T1	1	30	29	0.2	0.22	0.02	0	0	0	0	0	0	0	0
11/5/2024 8:23	55002	NEWP_T1	6	7	1	0.88	1.23	0.35	-0.25	-0.24	0	0	0	0	0	0
11/5/2024 8:24	67002	STHI_T2	75	116	41	0.14	0.14	0	0.54	0.54	0	0	0	0	0	0
11/5/2024 8:24	67001	STHI_T2	483	528	45	0.18	0.19	0.01	0	0	0	0	0	0	0	0
11/5/2024 8:30	41801	GOCI_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
11/5/2024 8:30	41205	KENM_T2	0	0	0	0	0	0	-0.76	-0.79	1	1	0	600	600	0
11/5/2024 8:34	64902	MILL_T2	1	1	0	0.1	0.2	0.1	-0.77	-0.75	1	1	0	900	900	0
11/5/2024 8:38	20401	ASHF_T2	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 8:38	20403	ASHF_T2	11	78	67	0.25	0.24	-0.01	1.27	1.15	0	0	0	0	0	0
11/5/2024 8:39	46004	BERW_T2	1	0	-1	1.7	0	-1.7	-0.29	-0.35	0	0	0	0	0	0
11/5/2024 8:39	46002	BERW_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
11/5/2024 8:39	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/5/2024 8:39	59101	WALK_T2	1	0	-1	1.8	0	-1.8	0	0	0	0	0	0	0	0
11/5/2024 8:40	60301	TWVA_T2	0	0	0	0	0	0	-3.3	-3.27	2	2	0	1800	1800	0
11/5/2024 8:40	20401	ASHF_T2	1	0	-1	0	0	0	-0.41	-0.27	0	0	0	0	0	0
11/5/2024 8:40	20403	ASHF_T2	11	78	67	0.25	0.24	-0.01	1.27	1.15	0	0	0	0	0	0
11/5/2024 8:41	59101	WALK_T2	1	1	0	1.8	0	-1.8	2.32	2.21	0	0	0	0	0	0
11/5/2024 8:42	24102	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 8:42	24105	EHAZ_T1	4	4	0	5.93	5.73	-0.2	0	0	0	0	0	0	0	0
11/5/2024 8:42	24101	EHAZ_T1	1	14	13	1.9	0.29	-1.61	0	0	0	0	0	0	0	0
11/5/2024 8:42	24104	EHAZ_T1	0	0	0	0	0	0	-0.88	-0.87	1	1	0	1200	1200	0
11/5/2024 8:43	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/5/2024 8:43	46002	BERW_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
11/5/2024 8:43	63501	HEID_TBK1-2	1	1	0	0.2	0.8	0.6	-0.07	0.01	1	1	0	900	900	0
11/5/2024 8:43	46004	BERW_T2	1	0	-1	1.7	0	-1.7	-0.29	-0.35	0	0	0	0	0	0
11/5/2024 8:46	54502	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/5/2024 8:46	54506	ENOL_T2	0	0	0	0	0	0	0.31	0.43	1	0	-1	600	0	-600
11/5/2024 8:46	63501	HEID_TBK1-2	1	38	37	0.7	0.2	-0.5	-0.14	0.02	2	2	0	1800	1800	0
11/5/2024 8:46	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
11/5/2024 8:49	40101	HUNT_T2	0	1	1	0	0.3	0.3	-0.63	-0.62	1	1	0	300	300	0
11/5/2024 8:49	44201	POIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 8:51	51002	NHAR_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
11/5/2024 8:51	51004	NHAR_T1	2	2	0	5.9	5.9	0	-0.35	-0.34	0	0	0	0	0	0
11/5/2024 8:51	60301	TWVA_T2	0	0	0	0	0	0	-6.53	-6.44	4	4	0	3600	3600	0
11/5/2024 8:53	55002	NEWP_T1	7	9	2	1.23	1.33	0.1	0	0	0	0	0	0	0	0
11/5/2024 8:53	55001	NEWP_T1	30	46	16	0.22	0.3	0.08	-0.35	-0.37	0	0	0	0	0	0
11/5/2024 8:53	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.13	0	0	0	0	0	0
11/5/2024 8:54	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 8:55	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 8:56	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 8:58	44801	EDAN_T2	307	353	46	0.41	0.52	0.11	0	0	0	0	0	0	0	0
11/5/2024 8:58	44802	EDAN_T2	518	671	153	0.3	0.35	0.05	-1.74	-1.67	0	0	0	0	0	0
11/5/2024 8:59	17805	GILB_T2	0	1	1	0	0.2	0.2	-0.13	-0.16	0	0	0	0	0	0
11/5/2024 8:59	46203	DANV_T2	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
11/5/2024 8:59	54502	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/5/2024 8:59	46201	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/5/2024 8:59	17804	GILB_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
11/5/2024 8:59	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	-1.36	-1.37	1	1	0	600	600	0
11/5/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
11/5/2024 9:00	44802	EDAN_T2	667	448	-219	0.35	0.23	-0.12	-1.74	-1.67	0	0	0	0	0	0
11/5/2024 9:00	46803	HEPB_T2	2	3	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
11/5/2024 9:00	54502	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
11/5/2024 9:00	44801	EDAN_T2	348	301	-47	0.52	0.43	-0.09	0	0	0	0	0	0	0	0
11/5/2024 9:00	41801	GOCI_T2	4	3	-1	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
11/5/2024 9:00	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	-1.36	-1.37	1	1	0	600	600	0
11/5/2024 9:00	46801	HEPB_T2	3	3	0	0.97	1	0.03	0.51	0.5	0	0	0	0	0	0
11/5/2024 9:00	46602	LAGR_T1	1	1	0	1.1	1.3	0.2	-1.19	-1.23	0	0	0	0	0	0
11/5/2024 9:00	52402	GRPA_T2	3	6	3	0.57	0.88	0.31	-0.8	-0.8	0	0	0	0	0	0
11/5/2024 9:00	59202	THOM_T1	4	16	12	0.35	0.19	-0.16	0	0	0	0	0	0	0	0
11/5/2024 9:00	15204	SFAR_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
11/5/2024 9:00	52403	GRPA_T2	1	8	7	0.7	0.59	-0.11	0	0	0	0	0	0	0	0
11/5/2024 9:00	15203	SFAR_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
11/5/2024 9:00	52401	GRPA_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
11/5/2024 9:00	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.13	0	0	0	0	0	0
11/5/2024 9:01	44802	EDAN_T2	667	448	-219	0.35	0.23	-0.12	-0.87	-0.84	0	0	0	0	0	0
11/5/2024 9:01	44801	EDAN_T2	348	301	-47	0.52	0.43	-0.09	0	0	0	0	0	0	0	0
11/5/2024 9:07	67505	WEWI_T1	0	0	0	0	0	0	-0.01	-0.02	1	1	0	900	900	0
11/5/2024 9:07	67504	WEWI_T1	0	0	0	0	0	0	-0.34	-0.33	1	1	0	900	900	0
11/5/2024 9:07	67502	WEWI_T2	24	2	-22	0.14	0.5	0.36	0	0	0	0	0	0	0	0
11/5/2024 9:07	67501	WEWI_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
11/5/2024 9:07	52402	GRPA_T2	3	6	3	0.57	0.88	0.31	0	0	0	0	0	0	0	0
11/5/2024 9:07	67503	WEWI_T2	1	1	0	8.7	8.6	-0.1	-0.51	-0.15	0	0	0	0	0	0
11/5/2024 9:07	52403	GRPA_T2	1	8	7	0.7	0.59	-0.11	-0.12	-0.13	0	0	0	0	0	0
11/5/2024 9:07	15203	SFAR_T2	0	2	2	0	0.45	0.45	-1.39	-1.37	0	0	0	0	0	0
11/5/2024 9:07	52401	GRPA_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
11/5/2024 9:08	15203	SFAR_T2	0	2	2	0	0.45	0.45	-1.39	-1.37	0	0	0	0	0	0
11/5/2024 9:09	67504	WEWI_T1	0	0	0	0	0	0	-0.34	-0.33	1	1	0	900	900	0
11/5/2024 9:09	67503	WEWI_T2	1	1	0	8.7	8.6	-0.1	0	0	0	0	0	0	0	0
11/5/2024 9:09	15203	SFAR_T2	0	2	2	0	0.45	0.45	-1.39	-1.37	0	0	0	0	0	0
11/5/2024 9:09	67501	WEWI_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
11/5/2024 9:09	67502	WEWI_T2	24	2	-22	0.14	0.5	0.36	-0.26	-0.21	0	0	0	0	0	0
11/5/2024 9:10	60803	BUCK_T1	12	15	3	0.17	0.41	0.24	-0.54	-0.53	1	1	0	600	600	0
11/5/2024 9:10	60801	BUCK_T1	0	24	24	0	0.2	0.2	0	0	0	0	0	0	0	0
11/5/2024 9:11	67503	WEWI_T2	1	1	0	8.7	8.6	-0.1	0	0	0	0	0	0	0	0
11/5/2024 9:11	14201	EALL_T1	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
11/5/2024 9:11	67502	WEWI_T2	24	2	-22	0.14	0.5	0.36	-0.26	-0.21	0	0	0	0	0	0
11/5/2024 9:12	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 9:13	63305	GREE_T1	6	3	-3	0.12	0.13	0.01	0	0	0	0	0	0	0	0
11/5/2024 9:13	63306	GREE_T1	15	22	7	0.13	0.15	0.02	-4.36	-4.42	2	2	0	1800	1800	0
11/5/2024 9:14	63501	HEID_TBK1-2	1	38	37	0.8	0.2	-0.6	0.01	0.05	1	1	0	900	900	0
11/5/2024 9:15	52401	GRPA_T2	4	2	-2	0.25	0.3	0.05	0	0	0	0	0	0	0	0
11/5/2024 9:15	52402	GRPA_T2	5	10	5	0.74	0.57	-0.17	0	0	0	0	0	0	0	0
11/5/2024 9:15	63501	HEID_TBK1-2	38	5	-33	0.2	0.14	-0.06	0.01	0.05	1	1	0	900	900	0
11/5/2024 9:15	52403	GRPA_T2	7	7	0	0.54	0.63	0.09	-0.12	-0.13	0	0	0	0	0	0
11/5/2024 9:16	63306	GREE_T1	22	1	-21	0.15	0.5	0.35	-2.18	-2.21	1	1	0	900	900	0
11/5/2024 9:16	63305	GREE_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
11/5/2024 9:16	11202	ELHE_T2	0	0	0	0	0	0	0.36	0.34	1	1	0	1200	1200	0
11/5/2024 9:17	41801	GOCI_T2	3	3	0	0.17	0.47	0.3	0	0	0	0	0	0	0	0
11/5/2024 9:17	45702	LIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/5/2024 9:17	63306	GREE_T1	22	1	-21	0.15	0.5	0.35	-2.18	-2.21	1	1	0	900	900	0
11/5/2024 9:17	63305	GREE_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
11/5/2024 9:17	63501	HEID_TBK1-2	38	5	-33	0.2	0.14	-0.06	0.02	0.1	2	2	0	1800	1800	0
11/5/2024 9:17	45701	LIND_T2	0	0	0	0	0	0	-1.67	-1.66	0	0	0	0	0	0
11/5/2024 9:18	25402	LAHA_T2	0	0	0	0	0	0	-0.93	-0.54	0	0	0	0	0	0
11/5/2024 9:19	13901	SEID_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/5/2024 9:19	13905	SEID_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
11/5/2024 9:20	45702	LIND_T2	0	1	1	0	0.1	0.1	-1.14	-1.12	0	0	0	0	0	0
11/5/2024 9:21	66504	SMAN_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
11/5/2024 9:21	66502	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/5/2024 9:21	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 9:22	66502	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/5/2024 9:22	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 9:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 9:22	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
11/5/2024 9:22	28102	TWLA_T2	7	9	2	0.41	0.39	-0.02	0.17	0.18	0	0	0	0	0	0
11/5/2024 9:23	45302	WBER_T2	0	0	0	0	0	0	0.69	0.64	0	0	0	0	0	0
11/5/2024 9:23	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 9:23	45303	WBER_T2	1	1	0	9.5	9.7	0.2	0	0	0	0	0	0	0	0
11/5/2024 9:23	66502	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/5/2024 9:23	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 9:23	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 9:24	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.39	0	0	0	0	0	0
11/5/2024 9:24	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 9:24	66502	SMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/5/2024 9:27	67103	SPRI_T1	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
11/5/2024 9:28	17804	GILB_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/5/2024 9:28	17805	GILB_T2	1	1	0	0.2	0.3	0.1	-0.19	-0.12	0	0	0	0	0	0
11/5/2024 9:29	44502	HAMI_T2	1	1	0	3	3	0	0	0	0	0	0	0	0	0
11/5/2024 9:29	17805	GILB_T2	1	1	0	0.2	0.3	0.1	-0.19	-0.12	0	0	0	0	0	0
11/5/2024 9:29	44503	HAMI_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
11/5/2024 9:29	17804	GILB_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/5/2024 9:30	17804	GILB_T2	1	2	1	0.9	0.8	-0.1	-0.64	-0.62	0	0	0	0	0	0
11/5/2024 9:30	46201	DANV_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
11/5/2024 9:30	46203	DANV_T2	0	0	0	0	0	0	0.43	0.5	0	0	0	0	0	0
11/5/2024 9:30	17805	GILB_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/5/2024 9:33	63501	HEID_TBK1-2	5	5	0	0.14	0.16	0.02	0.05	-0.03	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/5/2024 9:34	58402	MORO_T1	0	0	0	0	0	0	-0.08	-0.08	2	2	0	1500	1500	0
11/5/2024 9:34	58401	MORO_T1	0	0	0	0	0	0	-1.76	-1.79	1	1	0	600	600	0
11/5/2024 9:35	64904	MILL_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
11/5/2024 9:35	64101	REFR_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
11/5/2024 9:35	58401	MORO_T1	0	0	0	0	0	0	-1.76	-1.79	1	1	0	600	600	0
11/5/2024 9:36	64101	REFR_T1	0	0	0	0	0	0	-0.6	-0.45	0	0	0	0	0	0
11/5/2024 9:37	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.15	0	0	0	0	0	0
11/5/2024 9:38	60301	TWVA_T2	0	0	0	0	0	0	-6.69	-6.5	4	4	0	3600	3600	0
11/5/2024 9:38	60201	ATGL_T2	1	1	0	0.1	0.2	0.1	-0.17	-0.05	0	0	0	0	0	0
11/5/2024 9:39	15001	BLMO_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
11/5/2024 9:42	10801	CHHI_T1	0	2	2	0	0.25	0.25	-1.38	-1.46	2	2	0	1500	1500	0
11/5/2024 9:42	15001	BLMO_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
11/5/2024 9:42	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.15	0	0	0	0	0	0
11/5/2024 9:43	54501	ENOL_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
11/5/2024 9:43	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
11/5/2024 9:43	54502	ENOL_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
11/5/2024 9:44	67803	WLAN_T1	8	5	-3	0.19	0.2	0.01	0	0	0	0	0	0	0	0
11/5/2024 9:44	67805	WLAN_T1	0	0	0	0	0	0	-0.36	-0.15	0	0	0	0	0	0
11/5/2024 9:44	67804	WLAN_T1	4	3	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
11/5/2024 9:44	23901	EFMO_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
11/5/2024 9:48	46803	HEPB_T2	3	1	-2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/5/2024 9:48	46801	HEPB_T2	3	3	0	1.03	0.93	-0.1	0.51	0.53	0	0	0	0	0	0
11/5/2024 9:50	55001	NEWP_T1	0	0	0	0	0	0	-0.08	-0.05	0	0	0	0	0	0
11/5/2024 9:50	55002	NEWP_T1	7	10	3	1.19	0.95	-0.24	-0.24	-0.21	0	0	0	0	0	0
11/5/2024 9:51	15702	TANN_T2	0	0	0	0	0	0	-0.99	-0.86	0	0	0	0	0	0
11/5/2024 9:51	66502	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
11/5/2024 9:51	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
11/5/2024 9:51	66504	SMAN_T2	0	1	1	0	0.3	0.3	-0.98	-0.9	0	0	0	0	0	0
11/5/2024 9:51	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
11/5/2024 9:52	15601	NSTR_T2	3	3	0	0.33	0.67	0.34	0	0	0	0	0	0	0	0
11/5/2024 9:52	15602	NSTR_T2	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
11/5/2024 9:52	15603	NSTR_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/5/2024 9:52	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 9:52	55002	NEWP_T1	7	10	3	1.19	0.95	-0.24	-0.21	-0.23	0	0	0	0	0	0
11/5/2024 9:52	67001	STHI_T2	481	598	117	0.17	0.22	0.05	0.05	0.04	0	0	0	0	0	0
11/5/2024 9:52	67002	STHI_T2	93	229	136	0.16	0.15	-0.01	1.1	1.08	0	0	0	0	0	0
11/5/2024 9:53	15603	NSTR_T2	1	1	0	0.3	0.5	0.2	-0.66	-0.66	0	0	0	0	0	0
11/5/2024 9:53	15601	NSTR_T2	3	3	0	0.33	0.67	0.34	0	0	0	0	0	0	0	0
11/5/2024 9:53	67002	STHI_T2	93	229	136	0.16	0.15	-0.01	2.2	2.16	0	0	0	0	0	0
11/5/2024 9:53	55002	NEWP_T1	7	10	3	1.19	0.95	-0.24	-0.21	-0.23	0	0	0	0	0	0
11/5/2024 9:53	67001	STHI_T2	481	598	117	0.17	0.22	0.05	0	0	0	0	0	0	0	0
11/5/2024 9:54	67002	STHI_T2	93	229	136	0.16	0.15	-0.01	0.55	0.54	0	0	0	0	0	0
11/5/2024 9:54	66502	SMAN_T2	0	2	2	0	0.3	0.3	0.26	0.12	0	0	0	0	0	0
11/5/2024 9:54	24202	PROV_T4	14	14	0	0.21	0.12	-0.09	-0.43	-0.36	1	1	0	1200	1200	0
11/5/2024 9:54	66504	SMAN_T2	0	1	1	0	0.3	0.3	-0.49	-0.45	0	0	0	0	0	0
11/5/2024 9:54	67001	STHI_T2	481	598	117	0.17	0.22	0.05	0.1	0.08	0	0	0	0	0	0
11/5/2024 9:54	24203	PROV_T4	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/5/2024 9:54	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
11/5/2024 9:55	50625	CCTY_T2	5	5	0	2.9	2.92	0.02	0	0	0	0	0	0	0	0
11/5/2024 9:55	67001	STHI_T2	481	598	117	0.17	0.22	0.05	0.05	0.04	0	0	0	0	0	0
11/5/2024 9:55	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 9:55	50623	CCTY_T2	5	5	0	5.62	5.7	0.08	0	0	0	0	0	0	0	0
11/5/2024 9:55	50624	CCTY_T2	2	2	0	6.1	6.15	0.05	0	0	0	0	0	0	0	0
11/5/2024 9:55	67002	STHI_T2	93	229	136	0.16	0.15	-0.01	1.1	1.08	0	0	0	0	0	0
11/5/2024 9:59	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
11/5/2024 9:59	67002	STHI_T2	93	229	136	0.16	0.15	-0.01	0.55	0.54	0	0	0	0	0	0
11/5/2024 9:59	13701	SCHN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/5/2024 9:59	57103	SPHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/5/2024 9:59	57101	SPHI_T2	6	6	0	1.28	1.17	-0.11	0	0	0	0	0	0	0	0
11/5/2024 9:59	57106	SPHI_T2	3	3	0	1.8	1.67	-0.13	0	0	0	0	0	0	0	0
11/5/2024 9:59	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/5/2024 9:59	57104	SPHI_T2	2	6	4	0.8	0.52	-0.28	-1.9	-1.93	1	1	0	900	900	0
11/5/2024 9:59	48902	FOSP_T2	1	1	0	0.1	0.2	0.1	0.4	0.3	0	0	0	0	0	0
11/5/2024 9:59	13704	SCHN_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
11/5/2024 9:59	63803	HEMP_T1	1	6	5	0.2	0.25	0.05	0.05	0.03	0	0	0	0	0	0
11/5/2024 9:59	67001	STHI_T2	481	598	117	0.17	0.22	0.05	0	0	0	0	0	0	0	0
11/5/2024 10:00	63803	HEMP_T1	3	5	2	0.23	0.28	0.05	0.05	0.03	0	0	0	0	0	0
11/5/2024 10:00	63801	HEMP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/5/2024 10:00	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
11/5/2024 10:01	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
11/5/2024 10:01	63803	HEMP_T1	3	5	2	0.23	0.28	0.05	0.05	0.03	0	0	0	0	0	0
11/5/2024 10:01	63801	HEMP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/5/2024 10:01	48901	FOSP_T2	0	0	0	0	0	0	0.09	0.03	2	2	0	1200	1200	0
11/5/2024 10:01	48902	FOSP_T2	1	1	0	0.1	0.3	0.2	0.4	0.3	0	0	0	0	0	0
11/5/2024 10:02	48902	FOSP_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/5/2024 10:02	48901	FOSP_T2	0	0	0	0	0	0	0.05	0.02	1	1	0	600	600	0
11/5/2024 10:04	61001	DONV_T1	2	3	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/5/2024 10:06	62607	ENGL_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/5/2024 10:06	62605	ENGL_T1	1	0	-1	0.2	0	-0.2	-0.88	-0.87	0	0	0	0	0	0
11/5/2024 10:08	48901	FOSP_T2	0	0	0	0	0	0	0.02	-0.03	1	1	0	600	600	0
11/5/2024 10:08	58401	MORO_T1	0	0	0	0	0	0	-3.5	-3.56	2	2	0	1200	1200	0
11/5/2024 10:08	48902	FOSP_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/5/2024 10:09	67401	WAKE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/5/2024 10:09	67402	WAKE_T2	0	1	1	0	0.2	0.2	0.38	0.38	1	1	0	600	600	0
11/5/2024 10:09	67502	WEWI_T2	2	4	2	0.15	0.5	0.35	0	0	0	0	0	0	0	0
11/5/2024 10:09	67503	WEWI_T2	1	1	0	9.2	9.1	-0.1	-0.48	-0.55	0	0	0	0	0	0
11/5/2024 10:13	67502	WEWI_T2	2	4	2	0.15	0.5	0.35	-0.2	-0.14	0	0	0	0	0	0
11/5/2024 10:13	67503	WEWI_T2	1	1	0	9.2	9.1	-0.1	0	0	0	0	0	0	0	0
11/5/2024 10:17	46801	HEPB_T2	2	2	0	1.2	1.35	0.15	0.51	0.49	0	0	0	0	0	0
11/5/2024 10:17	46803	HEPB_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/5/2024 10:19	64305	LINC_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
11/5/2024 10:19	41902	REED_T1	1	2	1	0.2	0.2	0	1.02	1	0	0	0	0	0	0
11/5/2024 10:19	64303	LINC_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
11/5/2024 10:20	13701	SCHN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/5/2024 10:20	41902	REED_T1	1	2	1	0.2	0.2	0	2.04	2	0	0	0	0	0	0
11/5/2024 10:20	13704	SCHN_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
11/5/2024 10:21	41902	REED_T1	1	2	1	0.2	0.2	0	1.02	1	0	0	0	0	0	0
11/5/2024 10:22	58803	COCO_T1	1	1	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
11/5/2024 10:23	43304	WATS_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
11/5/2024 10:24	43304	WATS_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
11/5/2024 10:25	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 10:27	45501	DERR_T2	1	1	0	0.7	0.3	-0.4	0.65	0.71	2	2	0	1800	1800	0
11/5/2024 10:27	45502	DERR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/5/2024 10:27	10801	CHHI_T1	9	8	-1	0.4	0.44	0.04	-1.6	-1.49	2	2	0	1500	1500	0
11/5/2024 10:29	45501	DERR_T2	1	1	0	0.7	0.3	-0.4	0.65	0.71	2	2	0	1800	1800	0
11/5/2024 10:29	45502	DERR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/5/2024 10:30	45502	DERR_T2	1	1	0	0.2	0.6	0.4	0.46	0.44	0	0	0	0	0	0
11/5/2024 10:30	45501	DERR_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/5/2024 10:32	63501	HEID_TBK1-2	4	6	2	0.18	0.32	0.14	0.06	0.15	1	1	0	900	900	0
11/5/2024 10:41	16801	WAGN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/5/2024 10:42	64801	MONE_T2	0	1	1	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
11/5/2024 10:42	64802	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/5/2024 10:43	24101	EHAZ_T1	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
11/5/2024 10:43	24102	EHAZ_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
11/5/2024 10:43	24105	EHAZ_T1	4	4	0	6.8	6.43	-0.37	0	0	0	0	0	0	0	0
11/5/2024 10:47	42903	MIDD_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
11/5/2024 10:47	42902	MIDD_T2	6	5	-1	0.32	0.42	0.1	-0.7	-0.78	2	2	0	1200	1200	0
11/5/2024 10:48	42902	MIDD_T2	6	5	-1	0.32	0.42	0.1	-0.7	-0.78	2	2	0	1200	1200	0
11/5/2024 10:48	42903	MIDD_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
11/5/2024 10:49	42903	MIDD_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
11/5/2024 10:49	42902	MIDD_T2	6	5	-1	0.32	0.42	0.1	-0.35	-0.39	1	1	0	600	600	0
11/5/2024 10:51	42903	MIDD_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
11/5/2024 10:51	42902	MIDD_T2	6	5	-1	0.32	0.42	0.1	0	0	0	0	0	0	0	0
11/5/2024 10:52	42903	MIDD_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
11/5/2024 10:52	42902	MIDD_T2	6	5	-1	0.32	0.42	0.1	-0.39	-0.31	1	1	0	600	600	0
11/5/2024 10:52	67002	STHI_T2	51	49	-2	0.25	0.28	0.03	0.66	0.67	0	0	0	0	0	0
11/5/2024 10:52	67001	STHI_T2	366	378	12	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
11/5/2024 10:55	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/5/2024 10:55	66504	SMAN_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/5/2024 10:55	66505	SMAN_T2	0	0	0	0	0	0	0.5	0.58	1	1	0	900	900	0
11/5/2024 10:58	21206	ECAR_T2	1	1	0	7.7	7.5	-0.2	0	0	0	0	0	0	0	0
11/5/2024 10:58	21202	ECAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 10:58	21204	ECAR_T2	1	1	0	0	0	0	-0.7	-0.73	0	0	0	0	0	0
11/5/2024 11:04	10101	ALLE_T3	1	2	1	5.7	5.7	0	0	0	0	0	0	0	0	0
11/5/2024 11:04	10205	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 11:04	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 11:06	43202	MVIL_T2	99	142	43	1.13	0.94	-0.19	0	0	0	0	0	0	0	0
11/5/2024 11:06	43201	MVIL_T2	1	5	4	0.1	0.38	0.28	-0.42	-0.42	0	0	0	0	0	0
11/5/2024 11:07	13701	SCHN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/5/2024 11:07	43201	MVIL_T2	1	5	4	0.1	0.38	0.28	0	0	0	0	0	0	0	0
11/5/2024 11:07	43202	MVIL_T2	99	142	43	1.13	0.94	-0.19	-0.69	-0.67	0	0	0	0	0	0
11/5/2024 11:07	13704	SCHN_T2	0	0	0	0	0	0	-0.31	-0.35	0	0	0	0	0	0
11/5/2024 11:08	43201	MVIL_T2	1	5	4	0.1	0.38	0.28	0	0	0	0	0	0	0	0
11/5/2024 11:08	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 11:08	43202	MVIL_T2	99	142	43	1.13	0.94	-0.19	-0.69	-0.67	0	0	0	0	0	0
11/5/2024 11:09	43202	MVIL_T2	99	142	43	1.13	0.94	-0.19	-1.38	-1.34	0	0	0	0	0	0
11/5/2024 11:09	43201	MVIL_T2	1	5	4	0.1	0.38	0.28	0	0	0	0	0	0	0	0
11/5/2024 11:09	60101	COCA_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
11/5/2024 11:10	67401	WAKE_T2	1	2	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
11/5/2024 11:10	67402	WAKE_T2	1	1	0	0.1	0.2	0.1	0.4	0.41	1	1	0	600	600	0
11/5/2024 11:10	60101	COCA_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
11/5/2024 11:11	43202	MVIL_T2	99	142	43	1.13	0.94	-0.19	-1.38	-1.34	0	0	0	0	0	0
11/5/2024 11:11	20401	ASHF_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
11/5/2024 11:11	20403	ASHF_T2	5	10	5	0.22	0.49	0.27	0.95	1	0	0	0	0	0	0
11/5/2024 11:11	45402	WBLO_T2	89	124	35	0.37	0.39	0.02	-0.73	-0.72	0	0	0	0	0	0
11/5/2024 11:11	43201	MVIL_T2	1	5	4	0.1	0.38	0.28	0	0	0	0	0	0	0	0
11/5/2024 11:12	20401	ASHF_T2	1	2	1	0.3	0.25	-0.05	-0.24	-0.15	0	0	0	0	0	0
11/5/2024 11:12	60101	COCA_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
11/5/2024 11:12	20403	ASHF_T2	5	10	5	0.22	0.49	0.27	0	0	0	0	0	0	0	0
11/5/2024 11:13	20401	ASHF_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
11/5/2024 11:13	60101	COCA_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
11/5/2024 11:13	20403	ASHF_T2	5	10	5	0.22	0.49	0.27	0.95	1	0	0	0	0	0	0
11/5/2024 11:16	48901	FOSP_T2	0	0	0	0	0	0	-0.02	0	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/5/2024 11:16	48902	FOSP_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/5/2024 11:22	43801	SWIL_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
11/5/2024 11:22	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 11:23	42701	AUGU_T1	3	4	1	0.67	0.73	0.06	0	0	2	2	0	1800	1800	0
11/5/2024 11:24	67502	WEWI_T2	2	3	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
11/5/2024 11:24	67503	WEWI_T2	1	1	0	9.1	9	-0.1	-0.78	-0.66	0	0	0	0	0	0
11/5/2024 11:24	42701	AUGU_T1	3	4	1	0.67	0.73	0.06	0	0	0	0	0	0	0	0
11/5/2024 11:25	42701	AUGU_T1	3	4	1	0.67	0.73	0.06	0	0	4	4	0	3600	3600	0
11/5/2024 11:26	43802	SWIL_T1	0	0	0	0	0	0	-0.18	-0.18	1	1	0	600	600	0
11/5/2024 11:26	43801	SWIL_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
11/5/2024 11:28	42701	AUGU_T1	3	4	1	0.67	0.73	0.06	0	0	2	2	0	1800	1800	0
11/5/2024 11:29	42701	AUGU_T1	3	4	1	0.67	0.73	0.06	0	0	2	2	0	1800	1800	0
11/5/2024 11:33	67401	WAKE_T2	2	1	-1	0.1	0.8	0.7	-1.12	-1.06	0	0	0	0	0	0
11/5/2024 11:36	14802	TREI_T2	8	6	-2	0.28	0.35	0.07	0	0	0	0	0	0	0	0
11/5/2024 11:36	58402	MORO_T1	0	0	0	0	0	0	-0.12	-0.11	2	2	0	1500	1500	0
11/5/2024 11:36	14801	TREI_T2	10	9	-1	0.35	0.31	-0.04	0.26	0.27	0	0	0	0	0	0
11/5/2024 11:37	47203	FAXO_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/5/2024 11:37	47202	FAXO_T2	0	0	0	0	0	0	-2.42	-2.4	0	0	0	0	0	0
11/5/2024 11:39	14801	TREI_T2	10	9	-1	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
11/5/2024 11:39	14802	TREI_T2	8	6	-2	0.28	0.35	0.07	0.35	0.37	0	0	0	0	0	0
11/5/2024 11:40	14802	TREI_T2	8	6	-2	0.28	0.35	0.07	0.35	0.37	0	0	0	0	0	0
11/5/2024 11:40	14801	TREI_T2	10	9	-1	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
11/5/2024 11:41	14802	TREI_T2	8	6	-2	0.28	0.35	0.07	0.35	0.37	0	0	0	0	0	0
11/5/2024 11:41	14801	TREI_T2	10	9	-1	0.35	0.31	-0.04	0.26	0.27	0	0	0	0	0	0
11/5/2024 11:42	67401	WAKE_T2	2	1	-1	0.1	0.8	0.7	-1.06	-1.01	0	0	0	0	0	0
11/5/2024 11:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 11:42	41602	CLEV_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/5/2024 11:43	41602	CLEV_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/5/2024 11:43	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 11:45	44301	BEAV_T2	1	7	6	1	0.33	-0.67	0	0	0	0	0	0	0	0
11/5/2024 11:45	44302	BEAV_T2	0	5	5	0	0.44	0.44	0	0	0	0	0	0	0	0
11/5/2024 11:45	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 11:45	41602	CLEV_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/5/2024 11:51	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 11:51	13901	SEID_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
11/5/2024 11:51	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
11/5/2024 11:52	64101	REFR_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
11/5/2024 11:53	43402	BENT_T1	5	1	-4	0.42	1	0.58	-0.87	-0.89	1	1	0	900	900	0
11/5/2024 11:54	43304	WATS_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
11/5/2024 11:55	43402	BENT_T1	5	1	-4	0.42	1	0.58	-0.87	-0.89	1	1	0	900	900	0
11/5/2024 11:55	43304	WATS_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
11/5/2024 11:55	43301	WATS_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
11/5/2024 12:03	46101	MACI_T2	0	0	0	0	0	0	-0.12	-0.11	1	1	0	1200	1200	0
11/5/2024 12:12	42701	AUGU_T1	2	8	6	0.35	0.3	-0.05	0	0	2	2	0	1800	1800	0
11/5/2024 12:15	21206	ECAR_T2	1	1	0	8	8	0	0.41	0.47	0	0	0	0	0	0
11/5/2024 12:15	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 12:20	13302	ORVI_T2	3	3	0	0.97	0.67	-0.3	0.12	0.05	0	0	0	0	0	0
11/5/2024 12:22	58003	WCAR_T1	1	1	0	0.7	0.8	0.1	0.27	0.21	1	1	0	600	600	0
11/5/2024 12:22	58001	WCAR_T1	0	4	4	0	0.58	0.58	0	0	0	0	0	0	0	0
11/5/2024 12:23	58001	WCAR_T1	0	4	4	0	0.58	0.58	0	0	0	0	0	0	0	0
11/5/2024 12:23	58003	WCAR_T1	1	1	0	0.7	0.8	0.1	0.27	0.21	1	1	0	600	600	0
11/5/2024 12:24	13303	ORVI_T1	0	0	0	0	0	0	0.13	1.13	0	0	0	0	0	0
11/5/2024 12:26	20401	ASHF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/5/2024 12:26	20403	ASHF_T2	0	8	8	0	0.45	0.45	1.04	1.17	0	0	0	0	0	0
11/5/2024 12:27	67502	WEWI_T2	5	0	-5	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/5/2024 12:27	67503	WEWI_T2	1	1	0	8.2	8.5	0.3	-0.64	-0.07	0	0	0	0	0	0
11/5/2024 12:32	59301	MCAL_T1	4	2	-2	0.73	0.75	0.02	-1.85	-1.86	1	1	0	600	600	0
11/5/2024 12:34	46602	LACR_T1	1	4	3	1.4	0.68	-0.72	-1.19	-1.22	0	0	0	0	0	0
11/5/2024 12:35	65503	MOJO_T2	0	0	0	0	0	0	-0.96	-0.9	1	1	0	900	900	0
11/5/2024 12:35	46602	LACR_T1	1	4	3	1.4	0.68	-0.72	-1.19	-1.22	0	0	0	0	0	0
11/5/2024 12:36	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 12:36	21206	ECAR_T2	1	1	0	8	8	0	0.47	0.43	0	0	0	0	0	0
11/5/2024 12:41	51602	DUKE_T2	2	1	-1	0.35	0.2	-0.15	-0.17	-0.19	0	0	0	0	0	0
11/5/2024 12:41	51604	DUKE_T2	7	5	-2	0.51	0.56	0.05	-1.77	-1.76	0	0	0	0	0	0
11/5/2024 12:42	20401	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/5/2024 12:42	51602	DUKE_T2	2	1	-1	0.35	0.2	-0.15	-0.35	-0.38	0	0	0	0	0	0
11/5/2024 12:42	11904	ETEX_T2	1	1	0	0.7	0.8	0.1	0.27	0.24	0	0	0	0	0	0
11/5/2024 12:42	51604	DUKE_T2	7	5	-2	0.51	0.56	0.05	0	0	0	0	0	0	0	0
11/5/2024 12:42	20403	ASHF_T2	8	4	-4	0.45	0.3	-0.15	1.17	1.12	0	0	0	0	0	0
11/5/2024 12:44	46201	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/5/2024 12:44	46203	DANV_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
11/5/2024 12:44	46206	DANV_T2	0	0	0	0	0	0	1.22	1.28	2	2	0	2100	2100	0
11/5/2024 12:45	51603	DUKE_T1	3	3	0	0.27	0.37	0.1	-0.42	-0.46	0	0	0	0	0	0
11/5/2024 12:46	51604	DUKE_T2	5	5	0	0.54	0.5	-0.04	0	0	0	0	0	0	0	0
11/5/2024 12:46	51602	DUKE_T2	1	0	-1	0.2	0	-0.2	-0.17	-0.19	0	0	0	0	0	0
11/5/2024 12:50	57401	SPAN_T1	34	372	338	0.34	0.33	-0.01	-1.13	-1.14	1	1	0	600	600	0
11/5/2024 12:50	57403	SPAN_T1	52	173	121	0.31	0.67	0.36	0	0	0	0	0	0	0	0
11/5/2024 12:50	46602	LACR_T1	4	1	-3	0.68	1.4	0.72	-1.22	-1.24	0	0	0	0	0	0
11/5/2024 12:51	57403	SPAN_T1	52	173	121	0.31	0.67	0.36	0	0	0	0	0	0	0	0
11/5/2024 12:51	57401	SPAN_T1	34	372	338	0.34	0.33	-0.01	-2.28	-2.32	2	2	0	1200	1200	0
11/5/2024 12:53	57401	SPAN_T1	34	372	338	0.34	0.33	-0.01	-1.14	-1.16	1	1	0	600	600	0
11/5/2024 12:53	57403	SPAN_T1	52	173	121	0.31	0.67	0.36	0	0	0	0	0	0	0	0
11/5/2024 12:54	57401	SPAN_T1	34	372	338	0.34	0.33	-0.01	-3.42	-3.48	3	3	0	1800	1800	0
11/5/2024 12:54	57403	SPAN_T1	52	173	121	0.31	0.67	0.36	0	0	0	0	0	0	0	0
11/5/2024 12:55	57401	SPAN_T1	34	372	338	0.34	0.33	-0.01	-1.14	-1.16	1	1	0	600	600	0
11/5/2024 12:55	57403	SPAN_T1	52	173	121	0.31	0.67	0.36	-0.05	-0.05	0	0	0	0	0	0
11/5/2024 12:56	57403	SPAN_T1	52	173	121	0.31	0.67	0.36	0	0	0	0	0	0	0	0
11/5/2024 12:56	57401	SPAN_T1	34	372	338	0.34	0.33	-0.01	-2.28	-2.32	2	2	0	1200	1200	0
11/5/2024 12:58	57403	SPAN_T1	52	173	121	0.31	0.67	0.36	0	0	0	0	0	0	0	0
11/5/2024 12:58	57401	SPAN_T1	34	372	338	0.34	0.33	-0.01	-1.14	-1.16	1	1	0	600	600	0
11/5/2024 12:59	17802	GILB_T1	4	3	-1	0.73	0.47	-0.26	0.02	0.03	0	0	0	0	0	0
11/5/2024 13:06	55002	NEWP_T1	11	10	-1	1.06	1.07	0.01	-0.24	-0.24	0	0	0	0	0	0
11/5/2024 13:16	67605	WARW_T1	3	37	34	0.43	0.54	0.11	0	0	0	0	0	0	0	0
11/5/2024 13:16	67603	WARW_T1	0	1	1	0	0.2	0.2	-0.06	-0.01	0	0	0	0	0	0
11/5/2024 13:16	66302	MCGO_T2	469	472	3	1.17	1.54	0.37	-1.66	-1.83	1	1	0	600	600	0
11/5/2024 13:17	66302	MCGO_T2	469	472	3	1.17	1.54	0.37	-1.66	-1.83	1	1	0	600	600	0
11/5/2024 13:20	64101	REFR_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
11/5/2024 13:20	67605	WARW_T1	3	37	34	0.43	0.54	0.11	0.17	-1.11	0	0	0	0	0	0
11/5/2024 13:20	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/5/2024 13:21	64101	REFR_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
11/5/2024 13:22	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 13:23	14802	TREI_T2	4	1	-3	0.3	0.2	-0.1	0.98	1.2	0	0	0	0	0	0
11/5/2024 13:23	14801	TREI_T2	7	8	1	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
11/5/2024 13:23	64101	REFR_T1	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
11/5/2024 13:24	20403	ASHF_T2	1	5	4	0.4	0.24	-0.16	1.08	1.05	0	0	0	0	0	0
11/5/2024 13:26	14802	TREI_T2	4	1	-3	0.3	0.2	-0.1	0.65	0.8	0	0	0	0	0	0
11/5/2024 13:26	14801	TREI_T2	7	8	1	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
11/5/2024 13:31	43802	SWIL_T1	0	0	0	0	0	0	-0.19	-0.19	1	1	0	600	600	0
11/5/2024 13:31	43801	SWIL_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
11/5/2024 13:33	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/5/2024 13:33	67605	WARW_T1	37	30	-7	0.54	0.55	0.01	-1.11	-1.05	0	0	0	0	0	0
11/5/2024 13:35	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/5/2024 13:35	67605	WARW_T1	37	30	-7	0.54	0.55	0.01	-1.11	-1.05	0	0	0	0	0	0
11/5/2024 13:36	67605	WARW_T1	37	30	-7	0.54	0.55	0.01	-2.1	-2.12	0	0	0	0	0	0
11/5/2024 13:36	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/5/2024 13:37	67605	WARW_T1	37	30	-7	0.54	0.55	0.01	-1.05	-1.06	0	0	0	0	0	0
11/5/2024 13:37	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/5/2024 13:44	64501	LAVI_T1	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
11/5/2024 13:46	67605	WARW_T1	26	28	2	0.48	0.57	0.09	-1.05	-1.06	0	0	0	0	0	0
11/5/2024 13:47	63305	GREE_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
11/5/2024 13:47	63302	GREE_T1	0	0	0	0	0	0	0.65	0.68	0	0	0	0	0	0
11/5/2024 13:48	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 13:51	47401	PENS_T1	12	4	-8	0.6	0.85	0.25	-0.82	-0.76	0	0	0	0	0	0
11/5/2024 13:51	55101	WERT_T1	0	0	0	0	0	0	-0.95	-0.85	1	1	0	600	600	0
11/5/2024 13:51	47402	PENS_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
11/5/2024 13:51	47403	PENS_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
11/5/2024 13:59	67402	WAKE_T2	0	0	0	0	0	0	0.46	0.47	1	1	0	600	600	0
11/5/2024 13:59	67401	WAKE_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/5/2024 14:04	17002	RIRO_T2	1	1	0	0.7	0.7	0	0.61	0.6	0	0	0	0	0	0
11/5/2024 14:21	65205	PRIN_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
11/5/2024 14:21	54602	SUMM_T2	9	11	2	0.17	0.29	0.12	0	0	0	0	0	0	0	0
11/5/2024 14:21	54601	SUMM_T2	6	8	2	0.35	0.49	0.14	-4	-3.99	2	2	0	2100	2100	0
11/5/2024 14:21	44904	SCOT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/5/2024 14:21	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 14:21	65206	PRIN_T4	0	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0
11/5/2024 14:21	65207	PRIN_T4	1	2	1	0.4	0.7	0.3	0	0	2	2	0	1800	1800	0
11/5/2024 14:22	44901	SCOT_T2	5	9	4	0.12	0.2	0.08	0	0	0	0	0	0	0	0
11/5/2024 14:22	44902	SCOT_T2	385	495	110	0.28	0.31	0.03	-0.81	-0.85	0	0	0	0	0	0
11/5/2024 14:23	44902	SCOT_T2	385	495	110	0.28	0.31	0.03	0	0	0	0	0	0	0	0
11/5/2024 14:23	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 14:23	44904	SCOT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/5/2024 14:23	44901	SCOT_T2	5	9	4	0.12	0.2	0.08	0.21	0.32	0	0	0	0	0	0
11/5/2024 14:24	44901	SCOT_T2	5	9	4	0.12	0.2	0.08	0	0	0	0	0	0	0	0
11/5/2024 14:24	44902	SCOT_T2	385	495	110	0.28	0.31	0.03	-0.81	-0.85	0	0	0	0	0	0
11/5/2024 14:26	44904	SCOT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/5/2024 14:30	60102	COCA_T1	0	0	0	0	0	0	-0.58	-0.41	3	3	0	2100	2100	0
11/5/2024 14:31	48902	FOSP_T2	1	6	5	0.5	0.22	-0.28	0	0	0	0	0	0	0	0
11/5/2024 14:31	48901	FOSP_T2	0	3	3	0	0.17	0.17	-0.13	-0.15	1	1	0	600	600	0
11/5/2024 14:37	57403	SPAN_T1	173	173	0	0.38	0.41	0.03	-0.06	-0.06	0	0	0	0	0	0
11/5/2024 14:37	57401	SPAN_T1	34	8	-26	0.24	0.33	0.09	0	0	0	0	0	0	0	0
11/5/2024 14:38	41301	FISH_T1	3	3	0	0.93	1.3	0.37	0.4	0.41	0	0	0	0	0	0
11/5/2024 14:39	24702	FLND_T2	0	0	0	0	0	0	0.71	0.83	1	1	0	1200	1200	0
11/5/2024 14:39	66501	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/5/2024 14:39	66502	SMAN_T2	4	2	-2	0.15	0.1	-0.05	0.55	0.47	0	0	0	0	0	0
11/5/2024 14:41	44301	BEAV_T2	0	0	0	0	0	0	-0.32	-0.2	1	1	0	600	600	0
11/5/2024 14:42	41301	FISH_T1	3	3	0	0.93	1.3	0.37	0	0	0	0	0	0	0	0
11/5/2024 14:42	60102	COCA_T1	0	0	0	0	0	0	-0.41	-0.6	3	3	0	2100	2100	0
11/5/2024 14:43	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 14:48	20802	LOPO_T1	0	0	0	0	0	0	-0.6	-0.59	1	1	0	600	600	0
11/5/2024 14:51	54601	SUMM_T2	8	10	2	0.49	0.52	0.03	-4.01	-4.03	2	2	0	2100	2100	0
11/5/2024 14:51	54602	SUMM_T2	11	16	5	0.29	0.38	0.09	0	0	0	0	0	0	0	0
11/5/2024 14:52	54601	SUMM_T2	8	10	2	0.49	0.52	0.03	-4.01	-4.03	2	2	0	2100	2100	0
11/5/2024 14:52	54602	SUMM_T2	11	16	5	0.29	0.38	0.09	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/5/2024 14:54	54601	SUMM_T2	8	10	2	0.49	0.52	0.03	-8.03	-8.05	4	4	0	4200	4200	0
11/5/2024 14:54	54602	SUMM_T2	11	16	5	0.29	0.38	0.09	0	0	0	0	0	0	0	0
11/5/2024 14:56	67401	WAKE_T2	4	12	8	0.18	0.17	-0.01	-0.99	-1.06	0	0	0	0	0	0
11/5/2024 14:58	29201	APPE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 15:01	47203	FAXO_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/5/2024 15:01	17801	GILB_T1	0	0	0	0	0	0	1.06	0.97	0	0	0	0	0	0
11/5/2024 15:01	24101	EHAZ_T1	1	1	0	1.1	0.2	-0.9	0	0	0	0	0	0	0	0
11/5/2024 15:01	24102	EHAZ_T1	0	0	0	0	0	0	-0.06	-0.14	0	0	0	0	0	0
11/5/2024 15:01	24105	EHAZ_T1	4	4	0	6.45	6.53	0.08	0	0	0	0	0	0	0	0
11/5/2024 15:02	63305	GREE_T1	8	8	0	0.38	0.31	-0.07	-1.98	-1.91	1	1	0	900	900	0
11/5/2024 15:02	63306	GREE_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/5/2024 15:03	44901	SCOT_T2	24	31	7	0.25	0.22	-0.03	0.36	0.29	0	0	0	0	0	0
11/5/2024 15:03	44902	SCOT_T2	723	751	28	0.37	0.45	0.08	0	0	0	0	0	0	0	0
11/5/2024 15:04	46102	MACI_T1	0	0	0	0	0	0	0.92	0.92	0	0	0	0	0	0
11/5/2024 15:04	65502	MOJO_T2	0	0	0	0	0	0	-0.82	-0.88	1	1	0	900	900	0
11/5/2024 15:04	63306	GREE_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/5/2024 15:04	63305	GREE_T1	8	8	0	0.38	0.31	-0.07	-1.98	-1.91	1	1	0	900	900	0
11/5/2024 15:05	65702	RVIL_T2	0	0	0	0	0	0	-0.85	-0.84	1	1	0	600	600	0
11/5/2024 15:05	65503	MOJO_T2	0	0	0	0	0	0	0.22	0.1	0	0	0	0	0	0
11/5/2024 15:06	65502	MOJO_T2	0	0	0	0	0	0	-0.88	-1.12	1	1	0	900	900	0
11/5/2024 15:06	65702	RVIL_T2	0	0	0	0	0	0	-1.68	-1.74	2	2	0	1200	1200	0
11/5/2024 15:07	65702	RVIL_T2	0	0	0	0	0	0	-0.84	-0.87	1	1	0	600	600	0
11/5/2024 15:09	65702	RVIL_T2	0	0	0	0	0	0	-0.84	-0.87	1	1	0	600	600	0
11/5/2024 15:11	64704	LITI_T1	0	0	0	0	0	0	0.26	0.22	1	1	0	600	600	0
11/5/2024 15:15	45802	HEGI_T2	3	3	0	0.17	0.25	0.08	0.39	0.48	1	1	0	900	900	0
11/5/2024 15:15	65702	RVIL_T2	0	0	0	0	0	0	-0.84	-0.87	1	1	0	600	600	0
11/5/2024 15:18	45802	HEGI_T2	3	3	0	0.17	0.25	0.08	0.39	0.48	1	1	0	900	900	0
11/5/2024 15:19	44901	SCOT_T2	29	15	-14	0.22	0.24	0.02	0.29	0.29	0	0	0	0	0	0
11/5/2024 15:19	44902	SCOT_T2	746	724	-22	0.44	0.39	-0.05	0	0	0	0	0	0	0	0
11/5/2024 15:21	65001	NEFF_T2	0	0	0	0	0	0	0.83	0.7	0	0	0	0	0	0
11/5/2024 15:21	65004	NEFF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 15:21	65502	MOJO_T2	0	8	8	0	0.1	0.1	-1.12	-1.15	1	1	0	900	900	0
11/5/2024 15:22	13303	ORVI_T1	0	0	0	0	0	0	1.16	1.01	0	0	0	0	0	0
11/5/2024 15:23	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 15:24	15702	TANN_T2	0	0	0	0	0	0	-0.45	-0.35	0	0	0	0	0	0
11/5/2024 15:24	15703	TANN_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
11/5/2024 15:30	20603	GRWO_T2	46	31	-15	0.29	0.35	0.06	0.35	0.39	0	0	0	0	0	0
11/5/2024 15:31	20603	GRWO_T2	46	31	-15	0.29	0.35	0.06	0.35	0.39	0	0	0	0	0	0
11/5/2024 15:34	63501	HEID_TBK1-2	35	22	-13	0.31	0.25	-0.06	-0.03	-0.25	1	1	0	900	900	0
11/5/2024 15:38	66502	SMAN_T2	4	1	-3	0.2	0.1	-0.1	0	-0.03	0	0	0	0	0	0
11/5/2024 15:38	65802	RTWN_T2	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
11/5/2024 15:40	66502	SMAN_T2	4	1	-3	0.2	0.1	-0.1	0	-0.03	0	0	0	0	0	0
11/5/2024 15:41	66502	SMAN_T2	4	1	-3	0.2	0.1	-0.1	0.01	-0.08	0	0	0	0	0	0
11/5/2024 15:42	46001	BERW_T1	0	0	0	0	0	0	2.06	1.73	0	0	0	0	0	0
11/5/2024 15:43	66502	SMAN_T2	4	1	-3	0.2	0.1	-0.1	0.01	-0.05	0	0	0	0	0	0
11/5/2024 15:45	46001	BERW_T1	0	0	0	0	0	0	1.03	0.86	0	0	0	0	0	0
11/5/2024 16:01	44502	HAMI_T2	1	1	0	3.5	3.7	0.2	0	0	0	0	0	0	0	0
11/5/2024 16:01	44505	HAMI_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
11/5/2024 16:18	20802	LOPO_T1	0	1	1	0	0.1	0.1	-0.59	-0.6	1	1	0	600	600	0
11/5/2024 16:19	64203	KINZ_T1	0	0	0	0	0	0	0.02	-0.05	1	1	0	600	600	0
11/5/2024 16:19	64202	KINZ_T1	2	3	1	0.55	0.87	0.32	0	0	0	0	0	0	0	0
11/5/2024 16:19	64201	KINZ_T1	4	7	3	0.2	0.37	0.17	0	0	0	0	0	0	0	0
11/5/2024 16:19	64204	KINZ_T1	1	6	5	1.5	0.35	-1.15	0	0	0	0	0	0	0	0
11/5/2024 16:20	63803	HEMP_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
11/5/2024 16:20	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
11/5/2024 16:25	40901	JESH_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
11/5/2024 16:25	40902	JESH_T1	0	0	0	0	0	0	-0.8	-0.83	0	0	0	0	0	0
11/5/2024 16:30	64202	KINZ_T1	3	3	0	0.47	0.87	0.4	0	0	0	0	0	0	0	0
11/5/2024 16:30	64203	KINZ_T1	0	0	0	0	0	0	-0.05	0.5	1	1	0	600	600	0
11/5/2024 16:30	64201	KINZ_T1	7	6	-1	0.23	0.42	0.19	0	0	0	0	0	0	0	0
11/5/2024 16:30	64204	KINZ_T1	1	6	5	1.4	0.27	-1.13	0	0	0	0	0	0	0	0
11/5/2024 16:39	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
11/5/2024 16:39	54601	SUMM_T2	13	13	0	0.35	0.98	0.63	0	0	0	0	0	0	0	0
11/5/2024 16:39	54602	SUMM_T2	11	16	5	0.27	0.83	0.56	0	0	0	0	0	0	0	0
11/5/2024 16:39	60301	TWVA_T2	0	0	0	0	0	0	-2.58	-2.55	1	1	0	1200	1200	0
11/5/2024 16:45	67502	WEWI_T2	25	14	-11	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
11/5/2024 16:45	67503	WEWI_T2	1	1	0	8.5	8.5	0	-0.54	-0.48	0	0	0	0	0	0
11/5/2024 16:51	65702	RVIL_T2	0	0	0	0	0	0	-0.91	-0.97	1	1	0	600	600	0
11/5/2024 17:16	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
11/5/2024 18:42	17801	GILB_T1	0	0	0	0	0	0	0.93	0.91	0	0	0	0	0	0
11/5/2024 18:48	17002	RIRO_T2	169	112	-57	0.19	0.16	-0.03	0.39	0.37	0	0	0	0	0	0
11/5/2024 18:50	17805	GILB_T2	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0
11/5/2024 18:53	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 18:53	48902	FOSP_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/5/2024 18:53	15603	NSTR_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
11/5/2024 18:53	57403	SPAN_T1	64	159	95	0.29	0.38	0.09	0	0	0	0	0	0	0	0
11/5/2024 18:53	57401	SPAN_T1	2	2	0	0.4	0.5	0.1	-0.92	-0.87	1	1	0	600	600	0
11/5/2024 18:53	48901	FOSP_T2	3	2	-1	0.17	0.1	-0.07	0.26	0.23	0	0	0	0	0	0
11/5/2024 18:54	20401	ASHF_T2	2	2	0	0.25	0.35	0.1	-0.19	-0.23	0	0	0	0	0	0
11/5/2024 18:54	15203	SFAR_T2	0	0	0	0	0	0	-1.27	-1.28	0	0	0	0	0	0
11/5/2024 18:54	20603	GRWO_T2	23	28	5	0.26	0.32	0.06	0.31	0.34	0	0	0	0	0	0
11/5/2024 18:55	15602	NSTR_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
11/5/2024 18:56	17802	GILB_T1	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
11/5/2024 18:56	65003	NEFF_T2	4	4	0	0.3	0.33	0.03	0	0	0	0	0	0	0	0
11/5/2024 18:56	47401	PENS_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
11/5/2024 18:56	65004	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/5/2024 18:56	65503	MOJO_T2	14	3	-11	0.1	0.1	0	-0.21	-0.25	0	0	0	0	0	0
11/5/2024 18:56	65001	NEFF_T2	0	0	0	0	0	0	0.64	0.53	0	0	0	0	0	0
11/5/2024 18:56	65502	MOJO_T2	121	62	-59	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
11/5/2024 18:57	17805	GILB_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
11/5/2024 18:57	60101	COOA_T1	0	0	0	0	0	0	0.34	0.3	0	0	0	0	0	0
11/5/2024 18:57	14201	EALL_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
11/5/2024 18:57	15702	TANN_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
11/5/2024 18:57	57401	SPAN_T1	2	2	0	0.4	0.5	0.1	-0.92	-0.87	1	1	0	600	600	0
11/5/2024 18:57	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 18:57	57403	SPAN_T1	64	159	95	0.29	0.38	0.09	0	0	0	0	0	0	0	0
11/5/2024 18:57	67002	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/5/2024 18:57	14802	TREI_T2	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
11/5/2024 18:57	10101	ALLE_T3	2	2	0	4	3.1	-0.9	0	0	0	0	0	0	0	0
11/5/2024 18:57	15703	TANN_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
11/5/2024 18:57	67001	STHI_T2	6	94	88	0.15	0.14	-0.01	0.08	0.07	0	0	0	0	0	0
11/5/2024 18:57	65702	RVIL_T2	0	1	1	0	0.1	0.1	-0.98	-1.01	1	1	0	600	600	0
11/5/2024 18:58	51603	DUKE_T1	0	0	0	0	0	0	-0.38	-0.36	0	0	0	0	0	0
11/5/2024 18:58	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 18:58	67002	STHI_T2	0	1	1	0	0.1	0.1	0.61	0.61	0	0	0	0	0	0
11/5/2024 18:58	63501	HEID_TBK1-2	2	1	-1	0.9	1.6	0.7	0.52	0.49	0	0	0	0	0	0
11/5/2024 18:58	13303	ORVI_T1	0	0	0	0	0	0	0.91	0.91	0	0	0	0	0	0
11/5/2024 18:58	67001	STHI_T2	6	94	88	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
11/5/2024 18:58	57403	SPAN_T1	64	159	95	0.29	0.38	0.09	0	0	0	0	0	0	0	0
11/5/2024 18:58	57401	SPAN_T1	2	2	0	0.4	0.5	0.1	-0.92	-0.87	1	1	0	600	600	0
11/5/2024 18:59	63501	HEID_TBK1-2	2	1	-1	0.9	1.6	0.7	1.04	0.99	0	0	0	0	0	0
11/5/2024 18:59	11202	ELHE_T2	0	0	0	0	0	0	0.44	0.45	1	1	0	1200	1200	0
11/5/2024 18:59	67001	STHI_T2	6	94	88	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
11/5/2024 18:59	15203	SFAR_T2	0	0	0	0	0	0	-1.27	-1.28	0	0	0	0	0	0
11/5/2024 18:59	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
11/5/2024 18:59	48901	FOSP_T2	3	2	-1	0.17	0.1	-0.07	0.26	0.23	0	0	0	0	0	0
11/5/2024 18:59	48902	FOSP_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/5/2024 18:59	67002	STHI_T2	0	1	1	0	0.1	0.1	1.22	1.22	0	0	0	0	0	0
11/5/2024 18:59	46001	BERW_T1	0	0	0	0	0	0	0.66	0.61	0	0	0	0	0	0
11/5/2024 19:00	43302	WATS_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
11/5/2024 19:00	67502	WEWI_T2	15	52	37	0.1	0.12	0.02	-0.39	-0.37	0	0	0	0	0	0
11/5/2024 19:00	67001	STHI_T2	22	107	85	0.12	0.14	0.02	0	0	0	0	0	0	0	0
11/5/2024 19:00	54502	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/5/2024 19:00	20403	ASHF_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
11/5/2024 19:00	67002	STHI_T2	0	1	1	0	0.1	0.1	1.22	1.22	0	0	0	0	0	0
11/5/2024 19:00	15204	SFAR_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
11/5/2024 19:00	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:00	60301	TWVA_T2	0	0	0	0	0	0	-2.63	-2.64	1	1	0	1200	1200	0
11/5/2024 19:00	54501	ENOL_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
11/5/2024 19:00	20401	ASHF_T2	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
11/5/2024 19:00	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/5/2024 19:00	24202	PROV_T4	0	3	3	0	0.1	0.1	-0.37	-0.33	1	1	0	1200	1200	0
11/5/2024 19:00	43301	WATS_T2	0	1	1	0	0	0	0.14	0.12	0	0	0	0	0	0
11/5/2024 19:00	67503	WEWI_T2	1	1	0	8	8.1	0.1	0	0	0	0	0	0	0	0
11/5/2024 19:00	20802	LOPO_T1	1	1	0	0.1	0.1	0	-0.6	-0.59	1	1	0	600	600	0
11/5/2024 19:00	25402	LAHA_T2	0	0	0	0	0	0	-0.91	-0.9	0	0	0	0	0	0
11/5/2024 19:01	45302	WBER_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
11/5/2024 19:01	67001	STHI_T2	22	107	85	0.12	0.14	0.02	0.08	0.07	0	0	0	0	0	0
11/5/2024 19:01	62605	ENGL_T1	0	3	3	0	0.1	0.1	-0.75	-0.75	0	0	0	0	0	0
11/5/2024 19:01	67002	STHI_T2	0	1	1	0	0.1	0.1	0.61	0.61	0	0	0	0	0	0
11/5/2024 19:01	62606	ENGL_T1	36	42	6	0.1	0.11	0.01	0	0	0	0	0	0	0	0
11/5/2024 19:01	62602	ENGL_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/5/2024 19:01	67605	WARW_T1	16	18	2	0.39	0.56	0.17	-2.09	-2.17	0	0	0	0	0	0
11/5/2024 19:01	63306	GREE_T1	19	0	-19	0.11	0	-0.11	-2.11	-1.44	1	1	0	900	900	0
11/5/2024 19:01	21206	ECAR_T2	1	1	0	7.3	7.4	0.1	0.12	0.14	0	0	0	0	0	0
11/5/2024 19:01	43202	MVIL_T2	9	1	-8	0.17	0.2	0.03	-1.54	-1.52	0	0	0	0	0	0
11/5/2024 19:01	20802	LOPO_T1	1	1	0	0.1	0.1	0	-0.6	-0.59	1	1	0	600	600	0
11/5/2024 19:01	45303	WBER_T2	5	5	0	2.02	2.02	0	0	0	0	0	0	0	0	0
11/5/2024 19:01	57401	SPAN_T1	2	2	0	0.15	0.8	0.65	-1.84	-1.73	2	2	0	1200	1200	0
11/5/2024 19:01	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:01	44901	SCOT_T2	0	0	0	0	0	0	-0.02	0.02	0	0	0	0	0	0
11/5/2024 19:01	15702	TANN_T2	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
11/5/2024 19:01	15703	TANN_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
11/5/2024 19:01	42903	MIDD_T2	2	2	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
11/5/2024 19:01	64802	MONE_T2	65	115	50	0.35	0.41	0.06	0	0	0	0	0	0	0	0
11/5/2024 19:01	42701	AUGU_T1	1	1	0	0.9	1.1	0.2	0	0	2	2	0	1800	1800	0
11/5/2024 19:01	62604	ENGL_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/5/2024 19:01	42902	MIDD_T2	0	0	0	0	0	0	-0.55	-0.47	0	0	0	0	0	0
11/5/2024 19:01	63305	GREE_T1	6	7	1	0.18	0.26	0.08	0	0	0	0	0	0	0	0
11/5/2024 19:01	64801	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/5/2024 19:01	66504	SMAN_T2	0	0	0	0	0	0	-0.68	-0.87	0	0	0	0	0	0
11/5/2024 19:01	57403	SPAN_T1	156	158	2	0.37	0.41	0.04	0	0	0	0	0	0	0	0
11/5/2024 19:01	66502	SMAN_T2	0	0	0	0	0	0	0.13	-0.03	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/5/2024 19:02	67401	WAKE_T2	17	55	38	0.18	0.2	0.02	0	0	0	0	0	0	0	0
11/5/2024 19:02	47203	FAXO_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/5/2024 19:02	46203	DANV_T2	0	0	0	0	0	0	-0.87	-0.89	0	0	0	0	0	0
11/5/2024 19:02	14801	TREI_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
11/5/2024 19:02	67605	WARW_T1	16	18	2	0.39	0.56	0.17	-1.05	-1.09	0	0	0	0	0	0
11/5/2024 19:02	65702	RVIL_T2	0	1	1	0	0.1	0.1	-0.98	-1.01	1	1	0	600	600	0
11/5/2024 19:02	58402	MORO_T1	0	0	0	0	0	0	-0.18	-0.18	2	2	0	1500	1500	0
11/5/2024 19:02	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:02	14802	TREI_T2	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
11/5/2024 19:02	42902	MIDD_T2	0	0	0	0	0	0	-0.55	-0.47	0	0	0	0	0	0
11/5/2024 19:02	24702	FLND_T2	0	0	0	0	0	0	-0.28	0.01	1	1	0	1200	1200	0
11/5/2024 19:02	48901	FOSP_T2	1	1	0	0.1	0.1	0	0.26	0.23	0	0	0	0	0	0
11/5/2024 19:02	63803	HEMP_T1	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
11/5/2024 19:02	45501	DERR_T2	0	0	0	0	0	0	0.31	-0.06	2	2	0	1800	1800	0
11/5/2024 19:02	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:02	63804	HEMP_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
11/5/2024 19:02	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
11/5/2024 19:02	42701	AUGU_T1	1	1	0	0.9	1.1	0.2	0	0	4	4	0	3600	3600	0
11/5/2024 19:02	42903	MIDD_T2	2	2	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
11/5/2024 19:03	51602	DUKE_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
11/5/2024 19:03	63501	HEID_TBK1-2	1	1	0	1.6	1.6	0	0.52	0.49	0	0	0	0	0	0
11/5/2024 19:03	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.96	1	1	0	900	900	0
11/5/2024 19:03	67605	WARW_T1	16	18	2	0.39	0.56	0.17	0	0	0	0	0	0	0	0
11/5/2024 19:03	46602	LACR_T1	1	4	3	0	0.1	0.1	-1.26	-1.24	0	0	0	0	0	0
11/5/2024 19:03	48901	FOSP_T2	1	1	0	0.1	0.1	0	0.26	0.23	0	0	0	0	0	0
11/5/2024 19:03	67603	WARW_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
11/5/2024 19:03	65502	MOJO_T2	40	51	11	0.1	0.1	0	0	0	0	0	0	0	0	0
11/5/2024 19:03	60101	COCA_T1	0	0	0	0	0	0	0.34	0.3	0	0	0	0	0	0
11/5/2024 19:03	20403	ASHF_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
11/5/2024 19:03	41901	REED_T1	4	2	-2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/5/2024 19:03	67103	SPRI_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
11/5/2024 19:03	67502	WEWI_T2	15	52	37	0.1	0.12	0.02	-0.39	-0.37	0	0	0	0	0	0
11/5/2024 19:03	55002	NEWP_T1	5	6	1	0.62	0.82	0.2	-0.27	-0.27	0	0	0	0	0	0
11/5/2024 19:03	67503	WEWI_T2	1	1	0	8	8.1	0.1	0	0	0	0	0	0	0	0
11/5/2024 19:03	41902	REED_T1	0	0	0	0	0	0	0.99	0.99	0	0	0	0	0	0
11/5/2024 19:03	67504	WEWI_T1	0	0	0	0	0	0	-0.27	0.69	1	0	-1	900	0	-900
11/5/2024 19:03	10801	CHHI_T1	0	0	0	0	0	0	-2.9	-2.92	4	4	0	3000	3000	0
11/5/2024 19:03	20401	ASHF_T2	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
11/5/2024 19:03	65503	MOJO_T2	1	3	2	0.1	0.1	0	-0.21	-0.25	0	0	0	0	0	0
11/5/2024 19:03	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:04	55002	NEWP_T1	5	6	1	0.62	0.82	0.2	-0.27	-0.27	0	0	0	0	0	0
11/5/2024 19:04	11904	ETEX_T2	0	0	0	0	0	0	0.25	0.21	0	0	0	0	0	0
11/5/2024 19:04	45502	DERR_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
11/5/2024 19:04	54602	SUMM_T2	15	16	1	0.47	0.52	0.05	0	0	0	0	0	0	0	0
11/5/2024 19:04	14802	TREI_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
11/5/2024 19:04	46801	HEPB_T2	21	23	2	0.24	0.29	0.05	0.52	0.51	0	0	0	0	0	0
11/5/2024 19:04	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:04	63306	GREE_T1	19	0	-19	0.11	0	-0.11	-4.21	-2.88	2	2	0	1800	1800	0
11/5/2024 19:04	43202	MVIL_T2	9	1	-8	0.17	0.2	0.03	-0.77	-0.76	0	0	0	0	0	0
11/5/2024 19:04	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:04	29201	APPE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:04	63501	HEID_TBK1-2	1	1	0	1.6	1.6	0	0.52	0.49	0	0	0	0	0	0
11/5/2024 19:04	67502	WEWI_T2	15	52	37	0.1	0.12	0.02	-0.39	-0.37	0	0	0	0	0	0
11/5/2024 19:04	57403	SPAN_T1	156	158	2	0.37	0.41	0.04	0	0	0	0	0	0	0	0
11/5/2024 19:04	64501	LAVI_T1	60	44	-16	0.16	0.16	0	-0.39	-0.42	0	0	0	0	0	0
11/5/2024 19:04	63804	HEMP_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
11/5/2024 19:04	48901	FOSP_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/5/2024 19:04	63305	GREE_T1	6	7	1	0.18	0.26	0.08	0	0	0	0	0	0	0	0
11/5/2024 19:04	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:04	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:04	60102	COCA_T1	0	0	0	0	0	0	0.53	0.56	2	2	0	1200	1200	0
11/5/2024 19:04	67001	STHI_T2	22	107	85	0.12	0.14	0.02	0	0	0	0	0	0	0	0
11/5/2024 19:04	66303	MCGO_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
11/5/2024 19:04	64502	LAVI_T1	18	20	2	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
11/5/2024 19:04	67503	WEWI_T2	1	1	0	8	8.1	0.1	0	0	0	0	0	0	0	0
11/5/2024 19:04	48902	FOSP_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
11/5/2024 19:04	46803	HEPB_T2	6	8	2	0.15	0.16	0.01	0	0	0	0	0	0	0	0
11/5/2024 19:04	43801	SWIL_T1	71	88	17	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
11/5/2024 19:04	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:04	64503	LAVI_T1	22	17	-5	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
11/5/2024 19:04	57401	SPAN_T1	2	2	0	0.15	0.8	0.65	-1.84	-1.73	2	2	0	1200	1200	0
11/5/2024 19:04	67605	WARW_T1	16	18	2	0.39	0.56	0.17	-1.05	-1.09	0	0	0	0	0	0
11/5/2024 19:04	29202	APPE_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
11/5/2024 19:04	60201	ATGL_T2	78	92	14	0.24	0.25	0.01	-0.2	-0.12	0	0	0	0	0	0
11/5/2024 19:04	54601	SUMM_T2	12	13	1	0.9	0.92	0.02	-4.12	-4.2	2	2	0	2100	2100	0
11/5/2024 19:04	64305	LINC_T1	0	0	0	0	0	0	-0.49	-0.6	0	0	0	0	0	0
11/5/2024 19:04	43302	WATS_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
11/5/2024 19:04	13302	ORVI_T2	0	0	0	0	0	0	1.19	1.23	0	0	0	0	0	0
11/5/2024 19:04	66302	MCGO_T2	1	0	-1	0.1	0	-0.1	-1.67	-1.01	1	0	-1	600	0	-600
11/5/2024 19:04	63803	HEMP_T1	0	0	0	0	0	0	1.22	1.24	0	0	0	0	0	0
11/5/2024 19:04	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:04	67002	STHI_T2	0	1	1	0	0.1	0.1	0.61	0.61	0	0	0	0	0	0
11/5/2024 19:04	43802	SWIL_T1	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/5/2024 19:05	48901	FOSP_T2	1	1	0	0.1	0.1	0	0.26	0.23	0	0	0	0	0	0
11/5/2024 19:05	46803	HEPB_T2	6	8	2	0.15	0.16	0.01	0	0	0	0	0	0	0	0
11/5/2024 19:05	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:05	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:05	45501	DERR_T2	0	0	0	0	0	0	0.31	-0.06	2	2	0	1800	1800	0
11/5/2024 19:05	65202	PRIN_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
11/5/2024 19:05	57403	SPAN_T1	156	158	2	0.37	0.41	0.04	0	0	0	0	0	0	0	0
11/5/2024 19:05	55101	WERT_T1	0	0	0	0	0	0	-0.89	-0.97	1	1	0	600	600	0
11/5/2024 19:05	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:05	57104	SPHI_T2	3	3	0	2.67	1.93	-0.74	-1.85	-1.89	1	1	0	900	900	0
11/5/2024 19:05	63305	GREE_T1	6	7	1	0.18	0.26	0.08	-1.15	-1.24	0	0	0	0	0	0
11/5/2024 19:05	57106	SPHI_T2	3	3	0	2.03	2.13	0.1	0	0	0	0	0	0	0	0
11/5/2024 19:05	45702	LIND_T2	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
11/5/2024 19:05	57401	SPAN_T1	2	2	0	0.15	0.8	0.65	-0.92	-0.87	1	1	0	600	600	0
11/5/2024 19:05	63306	GREE_T1	19	0	-19	0.11	0	-0.11	0	0	0	0	0	0	0	0
11/5/2024 19:05	66502	SMAN_T2	0	0	0	0	0	0	0.07	-0.02	0	0	0	0	0	0
11/5/2024 19:05	65205	PRIN_T1	1	1	0	2.2	1.7	-0.5	0	0	0	0	0	0	0	0
11/5/2024 19:05	48902	FOSP_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
11/5/2024 19:05	57101	SPHI_T2	6	6	0	1.23	1.62	0.39	0	0	0	0	0	0	0	0
11/5/2024 19:05	51602	DUKE_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
11/5/2024 19:05	67504	WEWI_T1	0	0	0	0	0	0	-0.27	0.69	1	0	-1	900	0	-900
11/5/2024 19:05	41901	REED_T1	4	2	-2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/5/2024 19:05	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
11/5/2024 19:05	60301	TWVA_T2	0	0	0	0	0	0	-5.25	-5.27	2	2	0	2400	2400	0
11/5/2024 19:05	45701	LIND_T2	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
11/5/2024 19:05	14802	TREI_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
11/5/2024 19:05	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.96	1	1	0	900	900	0
11/5/2024 19:05	44902	SCOT_T2	0	0	0	0	0	0	-0.82	-0.85	0	0	0	0	0	0
11/5/2024 19:05	41902	REED_T1	0	0	0	0	0	0	1.98	1.98	0	0	0	0	0	0
11/5/2024 19:05	23901	EFMO_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
11/5/2024 19:05	46801	HEPB_T2	21	23	2	0.24	0.29	0.05	0.52	0.51	0	0	0	0	0	0
11/5/2024 19:05	67002	STHI_T2	0	1	1	0	0.1	0.1	0.61	0.61	0	0	0	0	0	0
11/5/2024 19:05	67001	STHI_T2	22	107	85	0.12	0.14	0.02	0	0	0	0	0	0	0	0
11/5/2024 19:06	67605	WARW_T1	16	18	2	0.39	0.56	0.17	-1.09	-1.07	0	0	0	0	0	0
11/5/2024 19:06	44502	HAMI_T2	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
11/5/2024 19:06	14802	TREI_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
11/5/2024 19:06	63306	GREE_T1	19	0	-19	0.11	0	-0.11	-1.44	-1.45	1	1	0	900	900	0
11/5/2024 19:06	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
11/5/2024 19:06	20603	GRWO_T2	21	29	8	0.25	0.33	0.08	0.31	0.34	0	0	0	0	0	0
11/5/2024 19:06	50625	CCTY_T2	3	4	1	3.93	3.08	-0.85	0	0	0	0	0	0	0	0
11/5/2024 19:06	13704	SOHN_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
11/5/2024 19:06	50624	CCTY_T2	2	2	0	5.8	5.95	0.15	0	0	0	0	0	0	0	0
11/5/2024 19:06	13905	SEID_T1	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
11/5/2024 19:06	65702	RVIL_T2	0	1	1	0	0.1	0.1	-1.01	-1.05	1	1	0	600	600	0
11/5/2024 19:06	63305	GREE_T1	6	7	1	0.18	0.26	0.08	0	0	0	0	0	0	0	0
11/5/2024 19:06	57401	SPAN_T1	2	2	0	0.15	0.8	0.65	-0.87	-0.95	1	1	0	600	600	0
11/5/2024 19:06	50623	CCTY_T2	5	5	0	5.16	5.34	0.18	0	0	0	0	0	0	0	0
11/5/2024 19:06	44503	HAMI_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
11/5/2024 19:06	57403	SPAN_T1	156	158	2	0.37	0.41	0.04	0	0	0	0	0	0	0	0
11/5/2024 19:06	67001	STHI_T2	22	107	85	0.12	0.14	0.02	0	0	0	0	0	0	0	0
11/5/2024 19:06	66504	SMAN_T2	0	0	0	0	0	0	-0.43	-0.4	0	0	0	0	0	0
11/5/2024 19:06	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:06	66505	SMAN_T2	0	0	0	0	0	0	0.38	0.42	1	1	0	900	900	0
11/5/2024 19:06	67002	STHI_T2	0	1	1	0	0.1	0.1	0.61	0.61	0	0	0	0	0	0
11/5/2024 19:06	45802	HEGI_T2	37	47	10	0.7	1.36	0.66	-0.13	-0.26	1	1	0	900	900	0
11/5/2024 19:06	46102	MACI_T1	0	0	0	0	0	0	0.95	0.93	0	0	0	0	0	0
11/5/2024 19:06	43202	MVIL_T2	9	1	-8	0.17	0.2	0.03	-0.77	-0.76	0	0	0	0	0	0
11/5/2024 19:06	66502	SMAN_T2	0	0	0	0	0	0	-0.03	0.09	0	0	0	0	0	0
11/5/2024 19:07	64202	KINZ_T1	6	9	3	0.15	0.31	0.16	0	0	0	0	0	0	0	0
11/5/2024 19:07	46001	BERW_T1	0	0	0	0	0	0	1.22	1.24	0	0	0	0	0	0
11/5/2024 19:07	66502	SMAN_T2	0	0	0	0	0	0	-0.02	0.04	0	0	0	0	0	0
11/5/2024 19:07	64203	KINZ_T1	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
11/5/2024 19:07	42701	AUGU_T1	1	1	0	0.9	1.1	0.2	0	0	4	4	0	3600	3600	0
11/5/2024 19:07	58803	COCO_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
11/5/2024 19:07	46803	HEPB_T2	6	8	2	0.15	0.16	0.01	0	0	0	0	0	0	0	0
11/5/2024 19:07	64704	LITI_T1	0	0	0	0	0	0	1.08	0.96	0	0	0	0	0	0
11/5/2024 19:07	46801	HEPB_T2	21	23	2	0.24	0.29	0.05	0.51	0.52	0	0	0	0	0	0
11/5/2024 19:07	42902	MIDD_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
11/5/2024 19:07	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:07	64201	KINZ_T1	6	6	0	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
11/5/2024 19:07	55002	NEWP_T1	5	6	1	0.62	0.82	0.2	-0.27	-0.27	0	0	0	0	0	0
11/5/2024 19:07	43202	MVIL_T2	9	1	-8	0.17	0.2	0.03	-0.76	-0.76	0	0	0	0	0	0
11/5/2024 19:07	41301	FISH_T1	1	2	1	2.7	1.45	-1.25	0.36	0.38	0	0	0	0	0	0
11/5/2024 19:07	67002	STHI_T2	0	1	1	0	0.1	0.1	0.61	0.61	0	0	0	0	0	0
11/5/2024 19:07	64204	KINZ_T1	21	35	14	0.24	0.25	0.01	0	0	0	0	0	0	0	0
11/5/2024 19:07	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:07	65702	RVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/5/2024 19:07	57401	SPAN_T1	2	2	0	0.15	0.8	0.65	0	0	0	0	0	0	0	0
11/5/2024 19:07	67001	STHI_T2	22	107	85	0.12	0.14	0.02	0	0	0	0	0	0	0	0
11/5/2024 19:07	57403	SPAN_T1	156	158	2	0.37	0.41	0.04	-0.02	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/5/2024 19:07	55001	NEWP_T1	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
11/5/2024 19:07	17804	GILB_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
11/5/2024 19:07	44902	SCOT_T2	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
11/5/2024 19:07	46206	DANV_T2	0	0	0	0	0	0	1.77	1.75	2	2	0	2100	2100	0
11/5/2024 19:07	42903	MIDD_T2	2	2	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
11/5/2024 19:08	43802	SWIL_T1	1	4	3	0.1	0.13	0.03	-0.14	-0.14	1	1	0	600	600	0
11/5/2024 19:08	43302	WATS_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
11/5/2024 19:08	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:08	67401	WAKE_T2	17	55	38	0.18	0.2	0.02	-1.14	-1.11	0	0	0	0	0	0
11/5/2024 19:08	60803	BUCK_T1	18	19	1	0.37	0.61	0.24	-0.49	-0.49	1	1	0	600	600	0
11/5/2024 19:08	42701	AUGU_T1	1	1	0	0.9	1.1	0.2	0	0	2	2	0	1800	1800	0
11/5/2024 19:08	20403	ASHF_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
11/5/2024 19:08	45702	LIND_T2	1	1	0	1.6	1.7	0.1	-1.33	-1.31	0	0	0	0	0	0
11/5/2024 19:08	43304	WATS_T2	0	0	0	0	0	0	-0.96	-0.95	0	0	0	0	0	0
11/5/2024 19:08	63803	HEMP_T1	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
11/5/2024 19:08	63305	GREE_T1	6	7	1	0.18	0.26	0.08	-1.24	-1.1	0	0	0	0	0	0
11/5/2024 19:08	66502	SMAN_T2	0	0	0	0	0	0	-0.02	0.04	0	0	0	0	0	0
11/5/2024 19:08	65803	RTWN_T2	4	9	5	0.1	0.14	0.04	0	0	0	0	0	0	0	0
11/5/2024 19:08	63306	GREE_T1	19	0	-19	0.11	0	-0.11	0	0	0	0	0	0	0	0
11/5/2024 19:08	58003	WCAR_T1	1	1	0	0.9	0.9	0	0	0	1	1	0	600	600	0
11/5/2024 19:08	54602	SUMM_T2	15	16	1	0.47	0.52	0.05	0	0	0	0	0	0	0	0
11/5/2024 19:08	58001	WCAR_T1	4	4	0	0.78	0.83	0.05	0	0	0	0	0	0	0	0
11/5/2024 19:08	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:08	20401	ASHF_T2	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
11/5/2024 19:08	54601	SUMM_T2	12	13	1	0.9	0.92	0.02	-4.2	-2.91	2	2	0	2100	2100	0
11/5/2024 19:08	63804	HEMP_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
11/5/2024 19:08	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
11/5/2024 19:08	60801	BUCK_T1	43	60	17	0.29	0.48	0.19	0	0	0	0	0	0	0	0
11/5/2024 19:08	43202	MVIL_T2	9	1	-8	0.17	0.2	0.03	-0.76	-0.76	0	0	0	0	0	0
11/5/2024 19:08	65802	RTWN_T2	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
11/5/2024 19:08	43801	SWIL_T1	71	88	17	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
11/5/2024 19:08	60102	COCA_T1	0	0	0	0	0	0	0.56	0.65	2	2	0	1200	1200	0
11/5/2024 19:09	42701	AUGU_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
11/5/2024 19:09	43202	MVIL_T2	9	1	-8	0.17	0.2	0.03	0	0	0	0	0	0	0	0
11/5/2024 19:09	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:09	13303	ORVI_T1	0	0	0	0	0	0	0.91	0.96	0	0	0	0	0	0
11/5/2024 19:09	45402	WBLO_T2	0	1	1	0	1	1	-0.85	-0.87	0	0	0	0	0	0
11/5/2024 19:09	51602	DUKE_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
11/5/2024 19:09	45802	HEGI_T2	37	47	10	0.7	1.36	0.66	-0.26	-0.29	1	1	0	900	900	0
11/5/2024 19:09	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:09	14802	TREI_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
11/5/2024 19:09	44301	BEAV_T2	0	0	0	0	0	0	-0.15	-0.16	1	1	0	600	600	0
11/5/2024 19:09	43201	MVIL_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
11/5/2024 19:09	48901	FOSP_T2	1	1	0	0.1	0.1	0	0.23	0.24	0	0	0	0	0	0
11/5/2024 19:09	42903	MIDD_T2	2	2	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
11/5/2024 19:10	65206	PRIN_T4	1	1	0	8.8	0	-8.8	0	0	0	0	0	0	0	0
11/5/2024 19:10	60101	COCA_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
11/5/2024 19:10	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:10	51604	DUKE_T2	0	0	0	0	0	0	-1.62	-1.61	0	0	0	0	0	0
11/5/2024 19:10	42902	MIDD_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
11/5/2024 19:10	44901	SCOT_T2	0	0	0	0	0	0	0.02	0.06	0	0	0	0	0	0
11/5/2024 19:10	67605	WARW_T1	16	18	2	0.39	0.56	0.17	-2.17	-2.14	0	0	0	0	0	0
11/5/2024 19:10	65207	PRIN_T4	2	3	1	0.65	0.65	0	0	0	1	1	0	1200	1200	0
11/5/2024 19:10	66503	SMAN_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
11/5/2024 19:10	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:10	65702	RVIL_T2	0	1	1	0	0.1	0.1	-1.01	-1.05	1	1	0	600	600	0
11/5/2024 19:10	42903	MIDD_T2	2	2	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
11/5/2024 19:10	46101	MACI_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
11/5/2024 19:10	40901	JESH_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/5/2024 19:10	40902	JESH_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
11/5/2024 19:10	67401	WAKE_T2	17	55	38	0.18	0.2	0.02	-1.14	-1.11	0	0	0	0	0	0
11/5/2024 19:10	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:10	43302	WATS_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
11/5/2024 19:11	65702	RVIL_T2	0	1	1	0	0.1	0.1	-1.01	-1.05	1	1	0	600	600	0
11/5/2024 19:11	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:11	67002	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/5/2024 19:11	42902	MIDD_T2	0	0	0	0	0	0	-0.94	-0.91	0	0	0	0	0	0
11/5/2024 19:11	67402	WAKE_T2	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
11/5/2024 19:11	57401	SPAN_T1	2	2	0	0.15	0.8	0.65	-0.87	-0.95	1	1	0	600	600	0
11/5/2024 19:11	64303	LINC_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
11/5/2024 19:11	54601	SUMM_T2	12	13	1	0.9	0.92	0.02	0	0	0	0	0	0	0	0
11/5/2024 19:11	59301	MCAL_T1	0	2	2	0	0.4	0.4	-1.45	-1.47	0	0	0	0	0	0
11/5/2024 19:11	54602	SUMM_T2	15	16	1	0.47	0.52	0.05	0	0	0	0	0	0	0	0
11/5/2024 19:11	57403	SPAN_T1	156	158	2	0.37	0.41	0.04	0	0	0	0	0	0	0	0
11/5/2024 19:11	42903	MIDD_T2	2	2	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
11/5/2024 19:11	55002	NEWP_T1	5	6	1	0.62	0.82	0.2	-0.27	-0.27	0	0	0	0	0	0
11/5/2024 19:11	67001	STHI_T2	22	107	85	0.12	0.14	0.02	0.07	0.06	0	0	0	0	0	0
11/5/2024 19:11	67505	WEWI_T1	0	0	0	0	0	0	0.01	0.03	1	1	0	900	900	0
11/5/2024 19:11	65503	MOJO_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
11/5/2024 19:11	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:11	66502	SMAN_T2	0	0	0	0	0	0	-0.02	0.04	0	0	0	0	0	0
11/5/2024 19:11	67401	WAKE_T2	17	55	38	0.18	0.2	0.02	0	0	0	0	0	0	0	0
11/5/2024 19:11	54603	SUMM_T2	0	0	0	0	0	0	-0.16	-0.16	1	1	0	900	900	0
11/5/2024 19:11	65502	MOJO_T2	40	51	11	0.1	0.1	0	0	0	0	0	0	0	0	0
11/5/2024 19:11	63501	HEID_TBK1-2	1	1	0	1.6	1.6	0	0.49	0.43	0	0	0	0	0	0
11/5/2024 19:12	64202	KINZ_T1	6	9	3	0.15	0.31	0.16	0	0	0	0	0	0	0	0
11/5/2024 19:12	67002	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/5/2024 19:12	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:12	65503	MOJO_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
11/5/2024 19:12	63306	GREE_T1	19	0	-19	0.11	0	-0.11	0	0	0	0	0	0	0	0
11/5/2024 19:12	65502	MOJO_T2	40	51	11	0.1	0.1	0	-0.85	-0.86	0	0	0	0	0	0
11/5/2024 19:12	64204	KINZ_T1	21	35	14	0.24	0.25	0.01	0	0	0	0	0	0	0	0
11/5/2024 19:12	67001	STHI_T2	22	107	85	0.12	0.14	0.02	0.07	0.06	0	0	0	0	0	0
11/5/2024 19:12	63305	GREE_T1	6	7	1	0.18	0.26	0.08	0	0	0	0	0	0	0	0
11/5/2024 19:12	63302	GREE_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
11/5/2024 19:12	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:12	58401	MORO_T1	0	0	0	0	0	0	-3.31	-3.3	2	2	0	1200	1200	0
11/5/2024 19:12	58001	WCAR_T1	4	4	0	0.78	0.83	0.05	0	0	0	0	0	0	0	0
11/5/2024 19:12	64203	KINZ_T1	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
11/5/2024 19:12	41901	REED_T1	4	2	-2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/5/2024 19:12	64201	KINZ_T1	6	6	0	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
11/5/2024 19:12	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
11/5/2024 19:12	58003	WCAR_T1	1	1	0	0.9	0.9	0	0	0	1	1	0	600	600	0
11/5/2024 19:12	41902	REED_T1	0	0	0	0	0	0	0.99	1.03	0	0	0	0	0	0
11/5/2024 19:13	58401	MORO_T1	0	0	0	0	0	0	-3.31	-3.3	2	2	0	1200	1200	0
11/5/2024 19:13	64101	REFR_T1	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
11/5/2024 19:13	58402	MORO_T1	0	0	0	0	0	0	-0.18	-0.2	2	2	0	1500	1500	0
11/5/2024 19:13	66502	SMAN_T2	0	0	0	0	0	0	-0.02	0.04	0	0	0	0	0	0
11/5/2024 19:13	67401	WAKE_T2	17	55	38	0.18	0.2	0.02	-1.14	-1.11	0	0	0	0	0	0
11/5/2024 19:14	54602	SUMM_T2	15	16	1	0.47	0.52	0.05	0	0	0	0	0	0	0	0
11/5/2024 19:14	64101	REFR_T1	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
11/5/2024 19:14	65503	MOJO_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
11/5/2024 19:14	57403	SPAN_T1	156	158	2	0.37	0.41	0.04	0	0	0	0	0	0	0	0
11/5/2024 19:14	52402	GRPA_T2	3	3	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/5/2024 19:14	43802	SWIL_T1	1	4	3	0.1	0.13	0.03	-0.14	-0.14	1	1	0	600	600	0
11/5/2024 19:14	54601	SUMM_T2	12	13	1	0.9	0.92	0.02	-4.2	-2.91	2	2	0	2100	2100	0
11/5/2024 19:14	65502	MOJO_T2	40	51	11	0.1	0.1	0	0	0	0	0	0	0	0	0
11/5/2024 19:14	52403	GRPA_T2	0	2	2	0	0.2	0.2	0	-0.03	0	0	0	0	0	0
11/5/2024 19:14	57401	SPAN_T1	2	2	0	0.15	0.8	0.65	-0.87	-0.95	1	1	0	600	600	0
11/5/2024 19:14	43801	SWIL_T1	71	88	17	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
11/5/2024 19:15	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
11/5/2024 19:15	64901	MILL_T1	20	2	-18	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
11/5/2024 19:15	57403	SPAN_T1	135	147	12	0.34	0.42	0.08	-0.02	-0.01	0	0	0	0	0	0
11/5/2024 19:15	43302	WATS_T2	3	4	1	0.17	0.58	0.41	0	0	0	0	0	0	0	0
11/5/2024 19:15	64904	MILL_T1	0	0	0	0	0	0	0.45	0.53	0	0	0	0	0	0
11/5/2024 19:15	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:15	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2024 19:15	57401	SPAN_T1	2	9	7	0.5	0.29	-0.21	0	0	0	0	0	0	0	0
11/5/2024 19:15	63501	HEID_TBK1-2	1	1	0	1.4	1.6	0.2	0.49	0.43	0	0	0	0	0	0
11/5/2024 19:16	65503	MOJO_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/5/2024 19:16	52403	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/5/2024 19:16	52402	GRPA_T2	3	3	0	0.2	0.73	0.53	-0.97	-1	0	0	0	0	0	0
11/5/2024 19:16	65502	MOJO_T2	51	0	-51	0.1	0	-0.1	-0.85	-0.86	0	0	0	0	0	0
11/5/2024 19:16	66504	SMAN_T2	0	0	0	0	0	0	-0.43	-0.4	0	0	0	0	0	0
11/5/2024 19:24	65503	MOJO_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/5/2024 19:24	65502	MOJO_T2	51	0	-51	0.1	0	-0.1	-0.86	-0.81	0	0	0	0	0	0
11/5/2024 19:25	15203	SFAR_T2	0	0	0	0	0	0	-1.26	-1.3	0	0	0	0	0	0
11/5/2024 19:39	41301	FISH_T1	2	3	1	1.45	1.23	-0.22	0	0	0	0	0	0	0	0
11/5/2024 19:45	60101	COCA_T1	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
11/5/2024 19:46	54601	SUMM_T2	11	11	0	0.31	0.27	-0.04	-2.82	-2.92	2	2	0	2100	2100	0
11/5/2024 20:03	54601	SUMM_T2	11	7	-4	0.27	0.29	0.02	-2.92	-2.89	2	2	0	2100	2100	0
11/5/2024 20:11	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
11/5/2024 20:11	67401	WAKE_T2	25	0	-25	0.16	0	-0.16	0	0	0	0	0	0	0	0
11/5/2024 22:14	67002	STHI_T2	895	0	-895	0.31	0	-0.31	0.47	0.42	0	0	0	0	0	0
11/5/2024 22:14	67001	STHI_T2	1016	0	-1016	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/5/2024 22:27	46602	LACR_T1	35	22	-13	0.21	0.2	-0.01	-1.07	-1.08	0	0	0	0	0	0
11/6/2024 7:24	67501	WEWI_T1	1	0	-1	0.1	0	-0.1	-1.19	-0.54	1	0	-1	600	0	-600
11/6/2024 7:25	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/6/2024 7:25	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 7:33	45702	LIND_T2	0	1	1	0	0.9	0.9	-0.49	-0.49	0	0	0	0	0	0
11/6/2024 7:33	55001	NEWP_T1	0	0	0	0	0	0	-0.26	-0.09	0	0	0	0	0	0
11/6/2024 7:33	55002	NEWP_T1	6	6	0	1.25	1.12	-0.13	0	0	0	0	0	0	0	0
11/6/2024 7:36	55002	NEWP_T1	6	6	0	1.25	1.12	-0.13	-0.26	-0.26	0	0	0	0	0	0
11/6/2024 7:36	44801	EDAN_T2	0	0	0	0	0	0	-1.06	-1.07	0	0	0	0	0	0
11/6/2024 7:37	55002	NEWP_T1	6	6	0	1.25	1.12	-0.13	-0.26	-0.26	0	0	0	0	0	0
11/6/2024 7:43	23901	EFMO_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
11/6/2024 7:44	20601	GRWO_T2	0	0	0	0	0	0	1.31	1.37	0	0	0	0	0	0
11/6/2024 7:49	45702	LIND_T2	1	1	0	0.9	1	0.1	-0.49	-0.47	0	0	0	0	0	0
11/6/2024 7:51	45501	DERR_T2	3	0	-3	0.17	0	-0.17	0.99	0.94	2	2	0	1800	1800	0
11/6/2024 7:54	67501	WEWI_T1	0	0	0	0	0	0	-0.44	-0.57	0	0	0	0	0	0
11/6/2024 7:55	45501	DERR_T2	3	0	-3	0.17	0	-0.17	0.94	0.85	2	2	0	1800	1800	0
11/6/2024 7:55	67605	WARW_T1	34	24	-10	0.5	0.5	0	0	0	0	0	0	0	0	0
11/6/2024 7:55	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/6/2024 7:57	60801	BUCK_T1	7	1	-6	0.1	0.1	0	0.1	0.15	0	0	0	0	0	0
11/6/2024 7:57	60803	BUCK_T1	16	16	0	0.56	0.52	-0.04	0	0	0	0	0	0	0	0
11/6/2024 7:59	26704	HEML_T2	60	71	11	0.18	0.21	0.03	-0.69	-0.71	1	1	0	1200	1200	0
11/6/2024 8:00	45701	LIND_T2	0	0	0	0	0	0	-1.63	-1.61	0	0	0	0	0	0
11/6/2024 8:00	45702	LIND_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
11/6/2024 8:10	15203	SPAR_T2	0	1	1	0	0.2	0.2	-1.38	-1.35	0	0	0	0	0	0
11/6/2024 8:15	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 8:32	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 8:34	10101	ALLE_T3	1	2	1	5.7	5.7	0	0	0	0	0	0	0	0	0
11/6/2024 8:34	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 8:35	25402	LAHA_T2	0	0	0	0	0	0	-0.71	-0.65	0	0	0	0	0	0
11/6/2024 8:37	66901	SHIL_T2	0	0	0	0	0	0	-3.07	-3.3	2	2	0	2400	2400	0
11/6/2024 8:37	66903	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/6/2024 8:38	66903	SHIL_T2	0	1	1	0	0.2	0.2	-0.93	-0.93	0	0	0	0	0	0
11/6/2024 8:39	66903	SHIL_T2	0	1	1	0	0.2	0.2	-0.93	-0.93	0	0	0	0	0	0
11/6/2024 8:39	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 8:41	67703	WERN_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
11/6/2024 8:51	57203	ROSS_T1	0	0	0	0	0	0	-0.41	-0.38	0	0	0	0	0	0
11/6/2024 8:53	67103	SPRI_T1	0	0	0	0	0	0	-0.07	-0.01	0	0	0	0	0	0
11/6/2024 8:54	14801	TREI_T2	1	2	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
11/6/2024 8:54	14802	TREI_T2	0	1	1	0	0.1	0.1	0.35	0.36	0	0	0	0	0	0
11/6/2024 8:55	44801	EDAN_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
11/6/2024 8:55	20401	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/6/2024 8:55	20403	ASHF_T2	2	81	79	0.2	0.25	0.05	1.08	1.06	0	0	0	0	0	0
11/6/2024 8:58	20401	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/6/2024 8:58	20403	ASHF_T2	2	81	79	0.2	0.25	0.05	1.08	1.06	0	0	0	0	0	0
11/6/2024 9:00	59202	THOM_T1	6	10	4	0.15	0.25	0.1	0	0	0	0	0	0	0	0
11/6/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
11/6/2024 9:00	67503	WEWI_T2	1	1	0	9.1	8.8	-0.3	-0.71	-0.15	0	0	0	0	0	0
11/6/2024 9:00	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
11/6/2024 9:00	54601	SUMM_T2	12	14	2	0.86	0.98	0.12	-4.19	-4.15	2	2	0	2100	2100	0
11/6/2024 9:00	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 9:00	54602	SUMM_T2	16	16	0	0.67	0.94	0.27	0	0	0	0	0	0	0	0
11/6/2024 9:00	44801	EDAN_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
11/6/2024 9:00	28102	TWLA_T2	25	31	6	0.62	0.65	0.03	0.16	0.18	0	0	0	0	0	0
11/6/2024 9:00	67502	WEWI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/6/2024 9:08	43801	SWIL_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
11/6/2024 9:08	43802	SWIL_T1	0	0	0	0	0	0	-0.3	-0.31	1	1	0	600	600	0
11/6/2024 9:09	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 9:10	44801	EDAN_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
11/6/2024 9:11	45303	WBER_T2	1	1	0	10	9.8	-0.2	0	0	0	0	0	0	0	0
11/6/2024 9:11	45302	WBER_T2	0	0	0	0	0	0	0.57	0.62	0	0	0	0	0	0
11/6/2024 9:11	44801	EDAN_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
11/6/2024 9:14	44505	HAMI_T2	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
11/6/2024 9:14	44502	HAMI_T2	1	1	0	3	2.8	-0.2	0	0	0	0	0	0	0	0
11/6/2024 9:14	44503	HAMI_T2	0	29	29	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 9:15	23901	EFMO_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
11/6/2024 9:17	24101	EHAZ_T1	2	2	0	0.95	1	0.05	0	0	0	0	0	0	0	0
11/6/2024 9:17	24105	EHAZ_T1	4	4	0	5.9	5.85	-0.05	0	0	0	0	0	0	0	0
11/6/2024 9:17	44505	HAMI_T2	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
11/6/2024 9:17	44502	HAMI_T2	1	1	0	2.8	2.6	-0.2	0	0	0	0	0	0	0	0
11/6/2024 9:17	24104	EHAZ_T1	0	0	0	0	0	0	-0.84	-0.84	1	1	0	1200	1200	0
11/6/2024 9:18	45702	LIND_T2	1	1	0	0.7	0.6	-0.1	-0.49	-0.49	0	0	0	0	0	0
11/6/2024 9:18	57505	LAWN_T3	3	13	10	0.37	0.18	-0.19	0.52	0.52	0	0	0	0	0	0
11/6/2024 9:19	45702	LIND_T2	1	1	0	0.7	0.6	-0.1	-0.49	-0.49	0	0	0	0	0	0
11/6/2024 9:19	45701	LIND_T2	0	0	0	0	0	0	-1.6	-1.57	0	0	0	0	0	0
11/6/2024 9:20	63501	HEID_T8X1-2	2	2	0	0.9	0.5	-0.4	0.32	0.31	2	2	0	1800	1800	0
11/6/2024 9:20	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
11/6/2024 9:21	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 9:21	24202	PROV_T4	0	1	1	0	0.6	0.6	-0.22	-0.19	1	1	0	1200	1200	0
11/6/2024 9:21	10101	ALLE_T3	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
11/6/2024 9:22	44502	HAMI_T2	1	1	0	2.8	2.6	-0.2	0	0	0	0	0	0	0	0
11/6/2024 9:22	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 9:24	13303	ORVI_T1	0	0	0	0	0	0	-0.23	-0.29	0	0	0	0	0	0
11/6/2024 9:24	15703	TANN_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
11/6/2024 9:24	15702	TANN_T2	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
11/6/2024 9:25	43801	SWIL_T1	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
11/6/2024 9:25	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 9:26	10903	COOP_T2	5	5	0	0.28	0.38	0.1	0.02	0.04	1	1	0	600	600	0
11/6/2024 9:27	53501	EVIL_T2	1	2	1	0.6	0.65	0.05	-0.07	-0.73	2	4	2	1800	3000	1200
11/6/2024 9:28	53501	EVIL_T2	1	2	1	0.6	0.65	0.05	-0.04	-0.37	1	2	1	900	1500	600
11/6/2024 9:28	10903	COOP_T2	5	5	0	0.28	0.38	0.1	0.02	0.04	1	1	0	600	600	0
11/6/2024 9:29	41801	GOCI_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/6/2024 9:29	17802	GILB_T1	1	3	2	0.2	0.4	0.2	0.02	0.05	0	0	0	0	0	0
11/6/2024 9:29	53501	EVIL_T2	1	2	1	0.6	0.65	0.05	-0.04	-0.37	1	2	1	900	1500	600
11/6/2024 9:30	53501	EVIL_T2	1	2	1	0.5	0.7	0.2	-0.04	-0.37	1	2	1	900	1500	600
11/6/2024 9:30	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 9:32	20601	GRWO_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 9:32	20603	GRWO_T2	0	0	0	0	0	0	-0.7	-0.66	1	1	0	900	900	0
11/6/2024 9:33	58401	MORO_T1	0	0	0	0	0	0	-1.63	-1.59	1	1	0	600	600	0
11/6/2024 9:33	25402	LAHA_T2	0	0	0	0	0	0	-0.49	-0.47	0	0	0	0	0	0
11/6/2024 9:33	20603	GRWO_T2	0	0	0	0	0	0	-0.7	-0.66	1	1	0	900	900	0
11/6/2024 9:33	20601	GRWO_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 9:33	58402	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/6/2024 9:34	58402	MORO_T1	0	1	1	0	0.2	0.2	-0.15	-0.16	2	2	0	1500	1500	0
11/6/2024 9:34	58401	MORO_T1	0	0	0	0	0	0	-3.27	-3.18	2	2	0	1200	1200	0
11/6/2024 9:36	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 9:36	55002	NEWP_T1	5	13	8	0.98	0.85	-0.13	0	0	0	0	0	0	0	0
11/6/2024 9:37	58401	MORO_T1	0	0	0	0	0	0	-1.59	-1.52	1	1	0	600	600	0
11/6/2024 9:37	58402	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/6/2024 9:38	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
11/6/2024 9:38	55001	NEWP_T1	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
11/6/2024 9:38	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
11/6/2024 9:38	55002	NEWP_T1	5	13	8	0.98	0.85	-0.13	0	0	0	0	0	0	0	0
11/6/2024 9:39	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
11/6/2024 9:39	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
11/6/2024 9:40	14802	TREI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/6/2024 9:40	45501	DERR_T2	1	1	0	0.2	0.3	0.1	0.92	1.05	2	2	0	1800	1800	0
11/6/2024 9:40	14801	TREI_T2	1	2	1	0.2	0.45	0.25	0.26	0.27	0	0	0	0	0	0
11/6/2024 9:41	14802	TREI_T2	1	1	0	0.2	0.2	0	0.36	0.38	0	0	0	0	0	0
11/6/2024 9:41	14801	TREI_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
11/6/2024 9:42	45501	DERR_T2	1	1	0	0.2	0.3	0.1	0.92	1.05	2	2	0	1800	1800	0
11/6/2024 9:46	63803	HEMP_T1	1	2	1	0.5	0.35	-0.15	0.12	0.18	0	0	0	0	0	0
11/6/2024 9:46	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
11/6/2024 9:46	63801	HEMP_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/6/2024 9:47	59301	MCAL_T1	2	2	0	0.5	0.4	-0.1	-1.78	-1.77	1	1	0	600	600	0
11/6/2024 9:48	63801	HEMP_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/6/2024 9:48	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
11/6/2024 9:48	63803	HEMP_T1	1	2	1	0.5	0.35	-0.15	0.24	0.36	0	0	0	0	0	0
11/6/2024 9:50	57403	SPAN_T1	11	19	8	0.17	0.18	0.01	0	0	0	0	0	0	0	0
11/6/2024 9:50	57401	SPAN_T1	16	50	34	0.35	0.41	0.06	-0.92	-0.9	1	1	0	600	600	0
11/6/2024 9:52	57401	SPAN_T1	16	50	34	0.35	0.41	0.06	0	0	0	0	0	0	0	0
11/6/2024 9:52	57403	SPAN_T1	11	19	8	0.17	0.18	0.01	-0.05	-0.03	0	0	0	0	0	0
11/6/2024 9:53	66504	SMAN_T2	0	2	2	0	0.35	0.35	-0.31	-0.26	0	0	0	0	0	0
11/6/2024 9:53	57401	SPAN_T1	16	50	34	0.35	0.41	0.06	-0.9	-0.96	1	1	0	600	600	0
11/6/2024 9:53	57403	SPAN_T1	11	19	8	0.17	0.18	0.01	0	0	0	0	0	0	0	0
11/6/2024 9:53	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/6/2024 9:54	57403	SPAN_T1	11	19	8	0.17	0.18	0.01	0	0	0	0	0	0	0	0
11/6/2024 9:54	57401	SPAN_T1	16	50	34	0.35	0.41	0.06	-0.9	-0.96	1	1	0	600	600	0
11/6/2024 9:55	43304	WATS_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
11/6/2024 9:55	14801	TREI_T2	1	3	2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
11/6/2024 9:55	57401	SPAN_T1	16	50	34	0.35	0.41	0.06	-0.9	-0.96	1	1	0	600	600	0
11/6/2024 9:55	14802	TREI_T2	1	1	0	0.2	0.2	0	0.38	0.43	0	0	0	0	0	0
11/6/2024 9:55	57403	SPAN_T1	11	19	8	0.17	0.18	0.01	0	0	0	0	0	0	0	0
11/6/2024 9:56	14802	TREI_T2	1	1	0	0.2	0.2	0	0.38	0.43	0	0	0	0	0	0
11/6/2024 9:56	43304	WATS_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
11/6/2024 9:56	14801	TREI_T2	1	3	2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
11/6/2024 9:57	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 9:58	43301	WATS_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
11/6/2024 10:00	10801	OHHI_T1	1	2	1	0.1	0.15	0.05	-1.36	-1.39	2	2	0	1500	1500	0
11/6/2024 10:02	64904	MILL_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
11/6/2024 10:03	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 10:03	42902	MIDD_T2	0	0	0	0	0	0	-1.03	-0.78	2	2	0	1200	1200	0
11/6/2024 10:04	42902	MIDD_T2	0	0	0	0	0	0	-0.52	-0.39	1	1	0	600	600	0
11/6/2024 10:04	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 10:04	43802	SWIL_T1	0	0	0	0	0	0	-0.31	-0.29	1	1	0	600	600	0
11/6/2024 10:04	43801	SWIL_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
11/6/2024 10:05	55101	WERT_T1	0	0	0	0	0	0	-1.02	-0.99	1	1	0	600	600	0
11/6/2024 10:07	45501	DERR_T2	1	3	2	0.3	0.15	-0.15	1.03	1.05	2	2	0	1800	1800	0
11/6/2024 10:08	57401	SPAN_T1	21	51	30	0.38	0.32	-0.06	-0.96	-1	1	1	0	600	600	0
11/6/2024 10:08	57403	SPAN_T1	13	20	7	0.18	0.2	0.02	0	0	0	0	0	0	0	0
11/6/2024 10:09	66504	SMAN_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
11/6/2024 10:09	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/6/2024 10:09	66502	SMAN_T2	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
11/6/2024 10:10	57401	SPAN_T1	21	51	30	0.38	0.32	-0.06	-0.96	-1	1	1	0	600	600	0
11/6/2024 10:10	65205	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/6/2024 10:10	46002	BERW_T2	2	3	1	0.1	0.2	0.1	-0.58	-0.57	1	1	0	900	900	0
11/6/2024 10:10	47401	PENS_T1	3	3	0	0.47	0.5	0.03	-0.76	-0.79	0	0	0	0	0	0
11/6/2024 10:10	57403	SPAN_T1	13	20	7	0.18	0.2	0.02	-0.03	0.01	0	0	0	0	0	0
11/6/2024 10:10	58003	WCAR_T1	1	1	0	0.6	0.7	0.1	0.32	0.28	1	1	0	600	600	0
11/6/2024 10:10	58001	WCAR_T1	4	4	0	0.55	0.55	0	0	0	0	0	0	0	0	0
11/6/2024 10:10	67605	WARW_T1	13	13	0	0.62	0.44	-0.18	-1.06	-1.06	0	0	0	0	0	0
11/6/2024 10:10	47403	PENS_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
11/6/2024 10:11	67603	WARW_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
11/6/2024 10:11	67605	WARW_T1	13	13	0	0.62	0.44	-0.18	0	0	0	0	0	0	0	0
11/6/2024 10:12	15001	BLMO_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
11/6/2024 10:12	46002	BERW_T2	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/6/2024 10:12	46004	BERW_T2	0	0	0	0	0	0	-0.24	-0.28	0	0	0	0	0	0
11/6/2024 10:13	67605	WARW_T1	13	13	0	0.62	0.44	-0.18	-1.06	-1.06	0	0	0	0	0	0
11/6/2024 10:13	60803	BUCK_T1	15	13	-2	0.48	0.22	-0.26	0	0	0	0	0	0	0	0
11/6/2024 10:13	60801	BUCK_T1	1	0	-1	0.4	0	-0.4	0.18	0.17	0	0	0	0	0	0
11/6/2024 10:14	10805	OHHI_T2	3	3	0	2.73	2.83	0.1	-1.67	-1.63	2	2	0	1800	1800	0
11/6/2024 10:14	46004	BERW_T2	0	0	0	0	0	0	-0.49	-0.56	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/6/2024 10:14	46002	BERW_T2	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/6/2024 10:15	57401	SPAN_T1	50	38	-12	0.4	0.36	-0.04	-0.96	-1	1	1	0	600	600	0
11/6/2024 10:15	17802	GILB_T1	3	2	-1	0.43	0.3	-0.13	0.03	0.02	0	0	0	0	0	0
11/6/2024 10:15	15001	BLMQ_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
11/6/2024 10:15	57403	SPAN_T1	19	17	-2	0.17	0.21	0.04	0	0	0	0	0	0	0	0
11/6/2024 10:21	45702	LIND_T2	1	0	-1	0.1	0	-0.1	-0.49	-0.49	0	0	0	0	0	0
11/6/2024 10:23	57403	SPAN_T1	19	17	-2	0.17	0.21	0.04	0	0	0	0	0	0	0	0
11/6/2024 10:23	57401	SPAN_T1	50	38	-12	0.4	0.36	-0.04	-1	-0.9	1	1	0	600	600	0
11/6/2024 10:24	57401	SPAN_T1	50	38	-12	0.4	0.36	-0.04	-2	-1.79	2	2	0	1200	1200	0
11/6/2024 10:24	57403	SPAN_T1	19	17	-2	0.17	0.21	0.04	0	0	0	0	0	0	0	0
11/6/2024 10:26	20401	ASHF_T2	0	0	0	0	0	-0.2	-0.14	-0.14	0	0	0	0	0	0
11/6/2024 10:26	20403	ASHF_T2	24	3	-21	0.25	0.33	0.08	0	0	0	0	0	0	0	0
11/6/2024 10:27	10801	CHHI_T1	2	2	0	0.1	0.15	0.05	-1.4	-1.29	2	2	0	1500	1500	0
11/6/2024 10:27	57403	SPAN_T1	19	17	-2	0.17	0.21	0.04	0	0	0	0	0	0	0	0
11/6/2024 10:27	20403	ASHF_T2	24	3	-21	0.25	0.33	0.08	1.33	1.34	0	0	0	0	0	0
11/6/2024 10:27	57401	SPAN_T1	50	38	-12	0.4	0.36	-0.04	-1	-0.9	1	1	0	600	600	0
11/6/2024 10:29	20403	ASHF_T2	24	3	-21	0.25	0.33	0.08	1.33	1.34	0	0	0	0	0	0
11/6/2024 10:30	57403	SPAN_T1	17	20	3	0.21	0.22	0.01	0	0	0	0	0	0	0	0
11/6/2024 10:30	57401	SPAN_T1	38	19	-19	0.36	0.39	0.03	-1	-0.9	1	1	0	600	600	0
11/6/2024 10:33	65503	MOJO_T2	0	0	0	0	0	0	-0.78	-0.79	1	1	0	900	900	0
11/6/2024 10:36	64101	REFR_T1	0	0	0	0	0	0	-1.04	-0.98	0	0	0	0	0	0
11/6/2024 10:36	15603	NSTR_T2	1	2	1	0.2	0.4	0.2	-0.69	-0.67	0	0	0	0	0	0
11/6/2024 10:36	66504	SMAN_T2	2	1	-1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
11/6/2024 10:36	66505	SMAN_T2	0	0	0	0	0	0	1.15	1.01	2	2	0	1100	1100	0
11/6/2024 10:36	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/6/2024 10:36	15601	NSTR_T2	2	3	1	0.15	0.5	0.35	0	0	0	0	0	0	0	0
11/6/2024 10:37	64101	REFR_T1	0	0	0	0	0	0	-0.52	-0.49	0	0	0	0	0	0
11/6/2024 10:37	14201	EALL_T1	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
11/6/2024 10:37	14203	EALL_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
11/6/2024 10:38	54205	PENN_T1	76	50	-26	0.28	0.11	-0.17	0	0	0	0	0	0	0	0
11/6/2024 10:38	54203	PENN_T1	164	75	-89	0.33	0.45	0.12	-0.53	-0.44	0	0	0	0	0	0
11/6/2024 10:38	54201	PENN_T1	249	208	-41	0.46	0.39	-0.07	0	0	0	0	0	0	0	0
11/6/2024 10:39	54201	PENN_T1	249	208	-41	0.46	0.39	-0.07	0	0	0	0	0	0	0	0
11/6/2024 10:39	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 10:39	54206	PENN_T2	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
11/6/2024 10:39	54203	PENN_T1	164	75	-89	0.33	0.45	0.12	-0.53	-0.44	0	0	0	0	0	0
11/6/2024 10:39	54205	PENN_T1	76	50	-26	0.28	0.11	-0.17	0	0	0	0	0	0	0	0
11/6/2024 10:39	54202	PENN_T2	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
11/6/2024 10:41	43402	BENT_T1	0	1	1	0	0.3	0.3	-1.22	-1.25	2	2	0	1500	1500	0
11/6/2024 10:43	42701	AUGU_T1	1	1	0	0.9	1.1	0.2	0	0	2	2	0	1800	1800	0
11/6/2024 10:43	43402	BENT_T1	0	1	1	0	0.3	0.3	-1.22	-1.25	2	2	0	1500	1500	0
11/6/2024 10:50	46002	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/6/2024 10:50	46004	BERW_T2	0	0	0	0	0	0	-0.28	-0.16	0	0	0	0	0	0
11/6/2024 10:53	23003	SAJO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 10:53	44801	EDAN_T2	1	2	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
11/6/2024 10:53	23001	SAJO_T1	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
11/6/2024 10:53	44802	EDAN_T2	0	0	0	0	0	0	-2.07	-2.06	0	0	0	0	0	0
11/6/2024 10:55	44801	EDAN_T2	1	2	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
11/6/2024 10:55	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 10:55	44802	EDAN_T2	0	0	0	0	0	0	-6.22	-6.19	0	0	0	0	0	0
11/6/2024 10:56	42701	AUGU_T1	1	1	0	1.1	0.9	-0.2	0	0	2	2	0	1800	1800	0
11/6/2024 10:57	42701	AUGU_T1	1	1	0	1.1	0.9	-0.2	0	0	4	4	0	3600	3600	0
11/6/2024 10:57	44801	EDAN_T2	1	2	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
11/6/2024 10:57	44802	EDAN_T2	0	0	0	0	0	0	-2.07	-2.06	0	0	0	0	0	0
11/6/2024 10:58	42701	AUGU_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
11/6/2024 11:02	54504	ENOL_T2	0	0	0	0	0	0	-1.1	-1.07	1	1	0	600	600	0
11/6/2024 11:02	54505	ENOL_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
11/6/2024 11:02	64305	LINC_T1	0	0	0	0	0	0	0.03	0.11	0	0	0	0	0	0
11/6/2024 11:02	54502	ENOL_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
11/6/2024 11:02	54501	ENOL_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
11/6/2024 11:08	67401	WAKE_T2	1	2	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
11/6/2024 11:08	67402	WAKE_T2	0	0	0	0	0	0	0.44	0.5	1	1	0	600	600	0
11/6/2024 11:15	11203	ELHE_T1	0	0	0	0	0	0	1.09	1.38	0	0	0	0	0	0
11/6/2024 11:17	63501	HEID_TBK1-2	1	2	1	0.7	0.9	0.2	0.83	0.65	2	2	0	1800	1800	0
11/6/2024 11:19	58402	MORO_T1	0	1	1	0	0.2	0.2	-0.1	-0.17	2	2	0	1500	1500	0
11/6/2024 11:20	13303	ORVI_T1	0	4	4	0	0.13	0.13	-0.15	-0.13	0	0	0	0	0	0
11/6/2024 11:20	63501	HEID_TBK1-2	1	2	1	0.7	0.9	0.2	0.41	0.32	1	1	0	900	900	0
11/6/2024 11:22	13303	ORVI_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
11/6/2024 11:25	60301	TWVA_T2	0	0	0	0	0	0	-6	-6.07	4	4	0	3600	3600	0
11/6/2024 11:32	40101	HUNT_T2	1	1	0	0.5	0.9	0.4	-0.41	-0.37	0	0	0	0	0	0
11/6/2024 11:35	65802	RTWN_T2	1	1	0	0.3	0.9	0.6	-0.3	-0.34	0	0	0	0	0	0
11/6/2024 11:35	65803	RTWN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/6/2024 11:38	44802	EDAN_T2	0	0	0	0	0	0	-2.05	-2.11	0	0	0	0	0	0
11/6/2024 11:38	44801	EDAN_T2	2	2	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
11/6/2024 11:39	14801	TREI_T2	1	1	0	0.1	0.1	0	0.27	0.29	0	0	0	0	0	0
11/6/2024 11:39	14802	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/6/2024 11:42	63803	HEMP_T1	1	4	3	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
11/6/2024 11:42	42701	AUGU_T1	0	1	1	0	0.5	0.5	0	0	2	2	0	1800	1800	0
11/6/2024 11:42	63801	HEMP_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/6/2024 11:42	65802	RTWN_T2	1	1	0	0.3	0.9	0.6	-0.17	-0.12	0	0	0	0	0	0
11/6/2024 11:42	63804	HEMP_T1	1	1	0	6.2	5.9	-0.3	1.21	1.2	0	0	0	0	0	0
11/6/2024 11:42	65803	RTWN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/6/2024 11:48	64903	MILL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/6/2024 11:48	64902	MILL_T2	2	3	1	0.4	0.5	0.1	-0.42	-0.48	1	1	0	900	900	0
11/6/2024 11:53	17002	RIRO_T2	2	3	1	0.4	0.3	-0.1	0.67	0.64	0	0	0	0	0	0
11/6/2024 11:54	46802	HEPB_T1	1	1	0	1.3	1.5	0.2	-0.34	-0.32	0	0	0	0	0	0
11/6/2024 11:56	16101	BING_T2	2	2	0	0.4	0.45	0.05	0.37	0.37	0	0	0	0	0	0
11/6/2024 11:56	64902	MILL_T2	2	3	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/6/2024 11:56	42701	AUGU_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
11/6/2024 11:56	16102	BING_T2	6	6	0	1.15	1.02	-0.13	0	0	0	0	0	0	0	0
11/6/2024 11:56	64903	MILL_T2	1	1	0	0.3	0.5	0.2	0.29	0.31	0	0	0	0	0	0
11/6/2024 11:58	16102	BING_T2	6	6	0	1.15	1.02	-0.13	0	0	0	0	0	0	0	0
11/6/2024 11:58	16101	BING_T2	2	2	0	0.4	0.45	0.05	0.37	0.37	0	0	0	0	0	0
11/6/2024 12:07	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 12:10	43304	WATS_T2	0	3	3	0	0	-0.49	0.07	0	1	1	0	600	600	0
11/6/2024 12:10	67604	WARW_T1	1	0	-1	0.1	0	-0.1	0.24	0.29	0	0	0	0	0	0
11/6/2024 12:10	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/6/2024 12:10	67603	WARW_T1	2	1	-1	0.55	0.6	0.05	0	0	0	0	0	0	0	0
11/6/2024 12:10	67605	WARW_T1	35	30	-5	0.57	0.6	0.03	-1.05	-1.04	0	0	0	0	0	0
11/6/2024 12:13	48901	FOSP_T2	0	0	0	0	0	0	-0.1	-0.1	1	1	0	600	600	0
11/6/2024 12:14	45802	HEGI_T2	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
11/6/2024 12:14	48901	FOSP_T2	0	0	0	0	0	0	-0.1	-0.1	1	1	0	600	600	0
11/6/2024 12:16	14403	SSLA_T1	1	1	0	0.4	0.3	-0.1	0.59	0.56	0	0	0	0	0	0
11/6/2024 12:16	14401	SSLA_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
11/6/2024 12:16	48902	FOSP_T2	0	0	0	0	0	0	0.83	0.89	0	0	0	0	0	0
11/6/2024 12:16	14402	SSLA_T1	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/6/2024 12:16	48901	FOSP_T2	0	0	0	0	0	0	-0.1	-0.1	1	1	0	600	600	0
11/6/2024 12:18	65503	MOJO_T2	0	0	0	0	0	0	-0.67	-0.72	1	1	0	900	900	0
11/6/2024 12:18	65501	MOJO_T1	0	0	0	0	0	0	-1.84	-1.84	2	2	0	1800	1800	0
11/6/2024 12:19	45802	HEGI_T2	1	27	26	0.2	0.57	0.37	0	0	0	0	0	0	0	0
11/6/2024 12:21	63803	HEMP_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/6/2024 12:21	63801	HEMP_T1	0	0	0	0	0	0	0.33	0.65	0	0	0	0	0	0
11/6/2024 12:21	63804	HEMP_T1	1	1	0	6	6.2	0.2	0	0	0	0	0	0	0	0
11/6/2024 12:24	67503	WEWI_T2	3	1	-2	3.13	8.3	5.17	0	0	0	0	0	0	0	0
11/6/2024 12:24	67502	WEWI_T2	17	5	-12	0.29	0.44	0.15	-0.1	-0.01	0	0	0	0	0	0
11/6/2024 12:25	67603	WARW_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
11/6/2024 12:25	67502	WEWI_T2	17	5	-12	0.29	0.44	0.15	-0.21	-0.03	0	0	0	0	0	0
11/6/2024 12:25	14401	SSLA_T1	1	1	0	0.8	0.5	-0.3	-0.43	-0.44	0	0	0	0	0	0
11/6/2024 12:25	67605	WARW_T1	30	26	-4	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
11/6/2024 12:25	14403	SSLA_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/6/2024 12:25	64802	MONE_T2	74	63	-11	0.4	0.34	-0.06	-0.01	-0.01	0	0	0	0	0	0
11/6/2024 12:25	14402	SSLA_T1	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/6/2024 12:25	67503	WEWI_T2	3	1	-2	3.13	8.3	5.17	-1.13	-1.05	0	0	0	0	0	0
11/6/2024 12:26	64802	MONE_T2	74	63	-11	0.4	0.34	-0.06	-0.01	-0.01	0	0	0	0	0	0
11/6/2024 12:27	67503	WEWI_T2	3	1	-2	3.13	8.3	5.17	-0.56	-0.52	0	0	0	0	0	0
11/6/2024 12:27	67502	WEWI_T2	17	5	-12	0.29	0.44	0.15	0	0	0	0	0	0	0	0
11/6/2024 12:28	53501	EVIL_T2	4	1	-3	0.63	0.9	0.27	-0.39	-0.42	2	2	0	1500	1500	0
11/6/2024 12:31	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 12:32	10805	CHHI_T2	1	1	0	8.1	8.4	0.3	-1.69	-1.59	2	2	0	1800	1800	0
11/6/2024 12:37	45501	DERR_T2	2	46	44	0.3	1.01	0.71	0	0	3	3	0	2700	2700	0
11/6/2024 12:37	43304	WATS_T2	3	79	76	0.2	0.91	0.71	-0.35	-0.25	1	1	0	600	600	0
11/6/2024 12:37	43301	WATS_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
11/6/2024 12:38	45501	DERR_T2	2	46	44	0.3	1.01	0.71	0	0	6	6	0	5400	5400	0
11/6/2024 12:39	45501	DERR_T2	2	46	44	0.3	1.01	0.71	0	0	3	3	0	2700	2700	0
11/6/2024 12:42	45501	DERR_T2	2	46	44	0.3	1.01	0.71	0	0	3	3	0	2700	2700	0
11/6/2024 12:46	40501	CRES_T2	1	0	-1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/6/2024 12:46	40502	CRES_T2	6	1	-5	0.28	0.1	-0.18	-0.25	-0.28	0	0	0	0	0	0
11/6/2024 13:03	52402	GRPA_T2	0	3	3	0	0.27	0.27	-0.79	-0.8	0	0	0	0	0	0
11/6/2024 13:08	45501	DERR_T2	44	27	-17	1.02	1.09	0.07	0	0	3	3	0	2700	2700	0
11/6/2024 13:09	45501	DERR_T2	44	27	-17	1.02	1.09	0.07	0	0	6	6	0	5400	5400	0
11/6/2024 13:16	54505	ENOL_T2	1	1	0	0.5	0.4	-0.1	-1.31	-1.33	1	1	0	600	600	0
11/6/2024 13:16	54502	ENOL_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
11/6/2024 13:34	46102	MACI_T1	0	0	0	0	0	0	0.94	0.94	0	0	0	0	0	0
11/6/2024 13:44	23202	HIRU_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
11/6/2024 13:44	63305	GREE_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
11/6/2024 13:44	63306	GREE_T1	0	2	2	0	0.2	0.2	-1.88	-1.87	1	1	0	900	900	0
11/6/2024 13:45	63305	GREE_T1	2	6	4	0.3	0.32	0.02	0	0	0	0	0	0	0	0
11/6/2024 13:45	63306	GREE_T1	2	1	-1	0.2	0.2	0	-1.88	-1.87	1	1	0	900	900	0
11/6/2024 13:45	63302	GREE_T1	0	0	0	0	0	0	0.84	0.9	0	0	0	0	0	0
11/6/2024 13:47	63306	GREE_T1	2	1	-1	0.2	0.2	0	-1.88	-1.87	1	1	0	900	900	0
11/6/2024 13:47	63305	GREE_T1	2	6	4	0.3	0.32	0.02	0	0	0	0	0	0	0	0
11/6/2024 13:49	63305	GREE_T1	2	6	4	0.3	0.32	0.02	0	0	0	0	0	0	0	0
11/6/2024 13:49	63306	GREE_T1	2	1	-1	0.2	0.2	0	-1.88	-1.87	1	1	0	900	900	0
11/6/2024 13:50	43202	MVIL_T2	49	74	25	0.28	0.44	0.16	-0.61	-0.65	0	0	0	0	0	0
11/6/2024 13:51	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 13:53	45501	DERR_T2	55	18	-37	0.87	0.3	-0.57	0	0	3	3	0	2700	2700	0
11/6/2024 14:05	43202	MVIL_T2	60	72	12	0.43	0.43	0	-0.65	-0.64	0	0	0	0	0	0
11/6/2024 14:06	49804	UNIV_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/6/2024 14:06	49803	UNIV_T1	1	1	0	4.9	4.8	-0.1	-0.96	-0.9	0	0	0	0	0	0
11/6/2024 14:07	43202	MVIL_T2	60	72	12	0.43	0.43	0	-0.64	-0.63	0	0	0	0	0	0
11/6/2024 14:07	13302	ORVI_T2	2	2	0	0.4	0.5	0.1	0.55	0.47	0	0	0	0	0	0
11/6/2024 14:18	13303	ORVI_T1	0	0	0	0	0	0	-0.16	-0.1	0	0	0	0	0	0
11/6/2024 14:21	49804	UNIV_T1	1	2	1	0.1	0.2	0.1	0.69	0.67	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/6/2024 14:21	49803	UNIV_T1	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
11/6/2024 14:41	42701	AUGU_T1	1	1	0	0.1	0.3	0.2	0	0	2	2	0	1800	1800	0
11/6/2024 14:42	44301	BEAV_T2	0	0	0	0	0	0	-0.31	-0.29	2	2	0	1200	1200	0
11/6/2024 14:43	42701	AUGU_T1	1	1	0	0.1	0.3	0.2	0	0	2	2	0	1800	1800	0
11/6/2024 14:43	44301	BEAV_T2	0	0	0	0	0	0	-0.16	-0.15	1	1	0	600	600	0
11/6/2024 14:53	43202	MVIL_T2	60	80	20	0.37	0.61	0.24	-0.59	-0.63	0	0	0	0	0	0
11/6/2024 15:18	20802	LOPO_T1	0	0	0	0	0	0	-0.6	-0.6	1	1	0	600	600	0
11/6/2024 15:19	20802	LOPO_T1	0	0	0	0	0	0	-0.6	-0.6	1	1	0	600	600	0
11/6/2024 15:26	46504	LOHA_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/6/2024 15:26	67503	WEWI_T2	1	1	0	8.3	8.1	-0.2	-0.48	-0.49	0	0	0	0	0	0
11/6/2024 15:26	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
11/6/2024 15:26	46506	LOHA_T1	4	4	0	3.83	3.75	-0.08	0	0	0	0	0	0	0	0
11/6/2024 15:27	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 15:27	50623	CCTY_T2	5	5	0	6.2	5.82	-0.38	0	0	0	0	0	0	0	0
11/6/2024 15:27	50625	CCTY_T2	3	4	1	4.53	3.33	-1.2	0	0	0	0	0	0	0	0
11/6/2024 15:27	50624	CCTY_T2	2	2	0	6.7	6.35	-0.35	0	0	0	0	0	0	0	0
11/6/2024 15:28	58803	COCO_T1	1	1	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
11/6/2024 15:34	63501	HEID_TBK1-2	1	28	27	0.6	0.19	-0.41	0	-0.05	1	1	0	900	900	0
11/6/2024 15:40	24801	VALM_T1	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
11/6/2024 16:01	63305	GREE_T1	1	1	0	0.3	0.1	-0.2	-0.95	-0.96	0	0	0	0	0	0
11/6/2024 16:05	63305	GREE_T1	1	1	0	0.3	0.1	-0.2	-0.95	-0.96	0	0	0	0	0	0
11/6/2024 16:06	64701	LITI_T1	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
11/6/2024 16:11	66901	SHIL_T2	16	86	70	0.11	0.13	0.02	-1.5	-1.5	1	1	0	1200	1200	0
11/6/2024 16:49	46102	MACI_T1	0	0	0	0	0	0	0.91	0.92	0	0	0	0	0	0
11/6/2024 18:11	45701	LIND_T2	0	0	0	0	0	0	-0.3	-0.27	0	0	0	0	0	0
11/6/2024 18:11	45702	LIND_T2	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
11/6/2024 18:16	45501	DERR_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/6/2024 18:18	45501	DERR_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/6/2024 18:21	45702	LIND_T2	1	1	0	1.6	1.7	0.1	-0.64	-0.61	0	0	0	0	0	0
11/6/2024 18:22	43202	MVIL_T2	58	41	-17	0.4	0.23	-0.17	-0.74	-0.74	0	0	0	0	0	0
11/6/2024 18:23	24801	VALM_T1	1	1	0	0.2	0	-0.2	-0.31	-0.34	0	0	0	0	0	0
11/6/2024 18:23	44802	EDAN_T2	0	0	0	0	0	0	-1.58	-1.63	0	0	0	0	0	0
11/6/2024 18:24	47401	PENS_T1	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
11/6/2024 18:25	44802	EDAN_T2	0	0	0	0	0	0	-0.79	-0.82	0	0	0	0	0	0
11/6/2024 18:25	45303	WBER_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
11/6/2024 18:25	45302	WBER_T2	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
11/6/2024 18:25	43202	MVIL_T2	58	41	-17	0.4	0.23	-0.17	-0.74	-0.74	0	0	0	0	0	0
11/6/2024 18:28	45501	DERR_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/6/2024 18:28	42701	AUGU_T1	1	1	0	0.3	0.4	0.1	0	0	2	2	0	1800	1800	0
11/6/2024 18:28	45702	LIND_T2	1	1	0	1.6	1.7	0.1	-0.61	-0.62	0	0	0	0	0	0
11/6/2024 18:29	42701	AUGU_T1	1	1	0	0.3	0.4	0.1	0	0	2	2	0	1800	1800	0
11/6/2024 18:29	44801	EDAN_T2	0	0	0	0	0	0	-0.42	-0.38	0	0	0	0	0	0
11/6/2024 18:30	42903	MIDD_T2	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/6/2024 18:30	42902	MIDD_T2	0	0	0	0	0	0	-0.45	-0.4	0	0	0	0	0	0
11/6/2024 18:32	24202	PROV_T4	1	0	-1	0.2	0	-0.2	-0.29	-0.21	1	1	0	1200	1200	0
11/6/2024 18:32	44802	EDAN_T2	0	0	0	0	0	0	-0.79	-0.82	0	0	0	0	0	0
11/6/2024 18:33	42701	AUGU_T1	1	1	0	0.4	0.2	-0.2	0	0	2	2	0	1800	1800	0
11/6/2024 18:33	46004	BERW_T2	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
11/6/2024 18:33	46002	BERW_T2	0	0	0	0	0	0	-1.05	-1.06	1	1	0	900	900	0
11/6/2024 18:34	40101	HUNT_T2	0	3	3	0	0	0	-0.7	-0.68	0	0	0	0	0	0
11/6/2024 18:34	46102	MACI_T1	0	0	0	0	0	0	0.95	0.93	0	0	0	0	0	0
11/6/2024 18:34	24105	EHAZ_T1	4	4	0	6.53	6.4	-0.13	0	0	0	0	0	0	0	0
11/6/2024 18:34	24101	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 18:34	24102	EHAZ_T1	0	3	3	0	0.65	0.65	0	0	0	0	0	0	0	0
11/6/2024 18:34	24104	EHAZ_T1	0	0	0	0	0	0	-0.87	-0.85	1	1	0	1200	1200	0
11/6/2024 18:35	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
11/6/2024 18:35	44505	HAMI_T2	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
11/6/2024 18:36	42701	AUGU_T1	1	1	0	0.4	0.2	-0.2	0	0	2	2	0	1800	1800	0
11/6/2024 18:37	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
11/6/2024 18:37	46506	LOHA_T1	3	4	1	4.1	3.43	-0.67	0	0	0	0	0	0	0	0
11/6/2024 18:37	42701	AUGU_T1	1	1	0	0.4	0.2	-0.2	0	0	4	4	0	3600	3600	0
11/6/2024 18:38	43802	SWIL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/6/2024 18:38	53501	EVIL_T2	2	2	0	0.35	0.4	0.05	-0.71	-0.69	1	1	0	600	600	0
11/6/2024 18:38	45501	DERR_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/6/2024 18:38	43801	SWIL_T1	62	120	58	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
11/6/2024 18:39	42701	AUGU_T1	1	1	0	0.4	0.2	-0.2	0	0	2	2	0	1800	1800	0
11/6/2024 18:39	43202	MVIL_T2	41	6	-35	0.23	0.12	-0.11	-0.74	-0.74	0	0	0	0	0	0
11/6/2024 18:39	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.92	1	1	0	900	900	0
11/6/2024 18:39	44801	EDAN_T2	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
11/6/2024 18:39	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/6/2024 18:39	49803	UNIV_T1	1	1	0	4.9	4.9	0	-0.93	-0.93	0	0	0	0	0	0
11/6/2024 18:40	20601	GRWO_T2	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/6/2024 18:40	44802	EDAN_T2	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
11/6/2024 18:40	20603	GRWO_T2	26	33	7	0.39	0.37	-0.02	0.38	0.37	0	0	0	0	0	0
11/6/2024 18:40	45501	DERR_T2	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
11/6/2024 18:41	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
11/6/2024 18:41	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 18:42	57403	SPAN_T1	1	6	5	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/6/2024 18:42	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.92	1	1	0	900	900	0
11/6/2024 18:42	57401	SPAN_T1	27	60	33	0.26	0.25	-0.01	-0.72	-0.73	1	1	0	600	600	0
11/6/2024 18:42	43802	SWIL_T1	0	1	1	0	0.1	0.1	-0.22	-0.22	1	1	0	600	600	0
11/6/2024 18:42	53501	EVIL_T2	2	2	0	0.35	0.4	0.05	-0.71	-0.69	1	1	0	600	600	0
11/6/2024 18:42	43801	SWIL_T1	62	120	58	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
11/6/2024 18:42	17002	RIRO_T2	14	50	36	0.11	0.15	0.04	0.36	0.38	0	0	0	0	0	0
11/6/2024 18:42	46004	BERW_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
11/6/2024 18:43	53501	EVIL_T2	2	2	0	0.35	0.4	0.05	-0.71	-0.69	1	1	0	600	600	0
11/6/2024 18:43	46004	BERW_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
11/6/2024 18:43	66901	SHIL_T2	0	9	9	0	0.1	0.1	-1.54	-1.52	1	1	0	1200	1200	0
11/6/2024 18:43	49804	UNIV_T1	0	1	1	0	0.1	0.1	0.53	0.56	0	0	0	0	0	0
11/6/2024 18:43	49803	UNIV_T1	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0	0
11/6/2024 18:43	59302	MCAL_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/6/2024 18:43	59301	MCAL_T1	4	3	-1	0.23	0.13	-0.1	-1.41	-1.42	0	0	0	0	0	0
11/6/2024 18:44	55002	NEWP_T1	5	4	-1	0.56	0.7	0.14	0	0	0	0	0	0	0	0
11/6/2024 18:44	15603	NSTR_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
11/6/2024 18:44	23202	HIRU_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
11/6/2024 18:44	20403	ASHF_T2	1	0	-1	3.7	0	-3.7	0.16	0.17	0	0	0	0	0	0
11/6/2024 18:44	15601	NSTR_T2	3	3	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/6/2024 18:44	53501	EVIL_T2	2	2	0	0.35	0.4	0.05	-0.71	-0.69	1	1	0	600	600	0
11/6/2024 18:44	55001	NEWP_T1	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
11/6/2024 18:45	53501	EVIL_T2	2	2	0	0.3	0.45	0.15	-0.71	-0.69	1	1	0	600	600	0
11/6/2024 18:45	43301	WATS_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
11/6/2024 18:45	23001	SAUD_T1	0	0	0	0	0	0	0.01	0.05	0	0	0	0	0	0
11/6/2024 18:45	24801	VALM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/6/2024 18:45	57505	LAWN_T3	3	3	0	0.3	0.33	0.03	0.68	0.63	0	0	0	0	0	0
11/6/2024 18:45	43302	WATS_T2	4	4	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
11/6/2024 18:46	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.46	0	0	0	0	0	0
11/6/2024 18:46	25402	LAHA_T2	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
11/6/2024 18:46	44505	HAMI_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
11/6/2024 18:46	15703	TANN_T2	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
11/6/2024 18:46	44502	HAMI_T2	1	1	0	3.4	3.6	0.2	0	0	0	0	0	0	0	0
11/6/2024 18:46	45501	DERR_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/6/2024 18:47	58001	WCAR_T1	4	4	0	0.7	1.15	0.45	0	0	0	0	0	0	0	0
11/6/2024 18:47	67605	WARW_T1	10	14	4	0.24	0.43	0.19	0	0	0	0	0	0	0	0
11/6/2024 18:47	20802	LOPO_T1	0	1	1	0	0.1	0.1	-0.6	-0.6	1	1	0	600	600	0
11/6/2024 18:47	67603	WARW_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
11/6/2024 18:47	58003	WCAR_T1	1	1	0	0.7	1.1	0.4	0.06	0.12	1	1	0	600	600	0
11/6/2024 18:48	17802	GILB_T1	0	0	0	0	0	0	0.05	0.11	0	0	0	0	0	0
11/6/2024 18:48	14401	SSLA_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
11/6/2024 18:48	40502	CRES_T2	23	45	22	0.26	0.33	0.07	-0.27	-0.27	0	0	0	0	0	0
11/6/2024 18:48	10805	CHHI_T2	1	1	0	7.8	7.8	0	-1.39	-1.37	1	1	0	600	600	0
11/6/2024 18:48	40501	CRES_T2	1	5	4	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
11/6/2024 18:48	44301	BEAV_T2	4	2	-2	0.38	0	-0.38	0.04	-0.02	1	1	0	600	600	0
11/6/2024 18:48	48901	FOSP_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
11/6/2024 18:48	48902	FOSP_T2	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
11/6/2024 18:48	67503	WEWI_T2	1	1	0	7.2	7.2	0	-0.49	-0.49	0	0	0	0	0	0
11/6/2024 18:48	45802	HEGI_T2	2	34	32	0.15	0.49	0.34	0	0	0	0	0	0	0	0
11/6/2024 18:48	67502	WEWI_T2	0	164	164	0	0.18	0.18	0	0	0	0	0	0	0	0
11/6/2024 18:49	43202	MVIL_T2	3	42	39	0.13	0.23	0.1	-0.74	-0.74	0	0	0	0	0	0
11/6/2024 18:49	14802	TREI_T2	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
11/6/2024 18:49	20401	ASHF_T2	0	2	2	0	0.15	0.15	-0.11	-0.18	0	0	0	0	0	0
11/6/2024 18:49	20601	GRWO_T2	3	10	7	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/6/2024 18:49	17802	GILB_T1	0	0	0	0	0	0	0.05	0.11	0	0	0	0	0	0
11/6/2024 18:49	20802	LOPO_T1	0	1	1	0	0.1	0.1	-0.6	-0.6	1	1	0	600	600	0
11/6/2024 18:49	45501	DERR_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/6/2024 18:49	20603	GRWO_T2	29	52	23	0.38	0.34	-0.04	0.38	0.37	0	0	0	0	0	0
11/6/2024 18:50	16102	BING_T2	1	1	0	4.2	4.9	0.7	0	0	0	0	0	0	0	0
11/6/2024 18:50	14802	TREI_T2	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
11/6/2024 18:50	54505	ENOL_T2	1	1	0	0.3	0.6	0.3	-1.26	-1.26	1	1	0	600	600	0
11/6/2024 18:50	54502	ENOL_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
11/6/2024 18:50	48901	FOSP_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
11/6/2024 18:50	58402	MORO_T1	1	1	0	2.7	1.1	-1.6	0.08	0.03	2	2	0	1500	1500	0
11/6/2024 18:50	16101	BING_T2	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
11/6/2024 18:50	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-0.98	1	1	0	600	600	0
11/6/2024 18:50	45501	DERR_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/6/2024 18:50	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 18:50	14201	EALL_T1	0	0	0	0	0	0	0.68	0.81	0	0	0	0	0	0
11/6/2024 18:51	65502	MOJO_T2	1	160	159	0.1	0.16	0.06	0	0	0	0	0	0	0	0
11/6/2024 18:51	54505	ENOL_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
11/6/2024 18:51	65503	MOJO_T2	0	0	0	0	0	0	-0.01	0.06	0	0	0	0	0	0
11/6/2024 18:51	55101	WERT_T1	0	0	0	0	0	0	-1.22	-1.34	1	1	0	600	600	0
11/6/2024 18:51	16101	BING_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
11/6/2024 18:51	54502	ENOL_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
11/6/2024 18:51	54501	ENOL_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
11/6/2024 18:51	16102	BING_T2	1	1	0	4.2	4.9	0.7	0	0	0	0	0	0	0	0
11/6/2024 18:52	54205	PENN_T1	30	141	111	0.18	0.3	0.12	0	0	0	0	0	0	0	0
11/6/2024 18:52	48901	FOSP_T2	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
11/6/2024 18:52	48902	FOSP_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
11/6/2024 18:52	57403	SPAN_T1	2	11	9	0.15	0.21	0.06	0	0	0	0	0	0	0	0
11/6/2024 18:52	44802	EDAN_T2	0	0	0	0	0	0	-0.81	-0.8	0	0	0	0	0	0
11/6/2024 18:52	50624	CCTY_T2	2	2	0	6.5	6.35	-0.15	0	0	0	0	0	0	0	0
11/6/2024 18:52	57401	SPAN_T1	26	135	109	0.29	0.27	-0.02	-1.46	-1.42	2	2	0	1200	1200	0
11/6/2024 18:52	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 18:52	54203	PENN_T1	139	283	144	0.38	0.42	0.04	-0.49	-0.46	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/6/2024 18:52	54201	PENN_T1	158	282	124	0.43	0.53	0.1	0	0	0	0	0	0	0	0
11/6/2024 18:52	50625	CCTY_T2	4	4	0	3.1	3.05	-0.05	0	0	0	0	0	0	0	0
11/6/2024 18:52	50623	CCTY_T2	5	5	0	5.42	5.5	0.08	0	0	0	0	0	0	0	0
11/6/2024 18:53	54205	PENN_T1	30	141	111	0.18	0.3	0.12	0	0	0	0	0	0	0	0
11/6/2024 18:53	67502	WEWI_T2	0	164	164	0	0.18	0.18	-0.32	-0.29	0	0	0	0	0	0
11/6/2024 18:53	63306	GREE_T1	0	0	0	0	0	0	-1.37	-1.39	1	1	0	900	900	0
11/6/2024 18:53	67503	WEWI_T2	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
11/6/2024 18:53	54201	PENN_T1	158	282	124	0.43	0.53	0.1	0	0	0	0	0	0	0	0
11/6/2024 18:53	15001	BLMO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/6/2024 18:53	54203	PENN_T1	139	283	144	0.38	0.42	0.04	-0.49	-0.46	0	0	0	0	0	0
11/6/2024 18:53	14801	TREI_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
11/6/2024 18:53	10801	CHHI_T1	0	0	0	0	0	0	-1.39	-1.35	2	2	0	1500	1500	0
11/6/2024 18:54	54206	PENN_T2	0	0	0	0	0	0	0.13	0.19	0	0	0	0	0	0
11/6/2024 18:54	46102	MACI_T1	0	0	0	0	0	0	0.92	0.9	0	0	0	0	0	0
11/6/2024 18:54	60301	TWVA_T2	0	0	0	0	0	0	-3.82	-3.82	4	4	0	3600	3600	0
11/6/2024 18:54	45501	DERR_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/6/2024 18:54	43302	WATS_T2	4	4	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
11/6/2024 18:54	23901	EFMO_T2	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
11/6/2024 18:54	64902	MILL_T2	0	0	0	0	0	0	-0.55	-0.6	1	1	0	900	900	0
11/6/2024 18:54	57401	SPAN_T1	26	135	109	0.29	0.27	-0.02	-2.19	-2.13	3	3	0	1800	1800	0
11/6/2024 18:54	65802	RTWN_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
11/6/2024 18:54	43304	WATS_T2	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
11/6/2024 18:54	57403	SPAN_T1	2	11	9	0.15	0.21	0.06	0	0	0	0	0	0	0	0
11/6/2024 18:54	44301	BEAV_T2	4	2	-2	0.38	0	-0.38	-0.02	-0.03	1	1	0	600	600	0
11/6/2024 18:54	63501	HEID_TBK1-2	31	33	2	0.28	0.41	0.13	-0.29	-0.31	1	1	0	900	900	0
11/6/2024 18:54	53501	EVIL_T2	2	2	0	0.3	0.45	0.15	-0.69	-0.72	1	1	0	600	600	0
11/6/2024 18:55	58402	MORO_T1	1	1	0	2.7	1.1	-1.6	0.03	-0.03	2	2	0	1500	1500	0
11/6/2024 18:55	43302	WATS_T2	4	4	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
11/6/2024 18:55	44301	BEAV_T2	4	2	-2	0.38	0	-0.38	-0.02	-0.03	1	1	0	600	600	0
11/6/2024 18:55	57401	SPAN_T1	26	135	109	0.29	0.27	-0.02	-1.46	-1.42	2	2	0	1200	1200	0
11/6/2024 18:55	10805	CHHI_T2	1	1	0	7.8	7.8	0	-1.37	-1.31	1	1	0	600	600	0
11/6/2024 18:55	57403	SPAN_T1	2	11	9	0.15	0.21	0.06	0	0	0	0	0	0	0	0
11/6/2024 18:55	67604	WARW_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
11/6/2024 18:55	67503	WEWI_T2	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
11/6/2024 18:55	43304	WATS_T2	0	0	0	0	0	0	-0.79	-0.76	0	0	0	0	0	0
11/6/2024 18:55	67502	WEWI_T2	0	164	164	0	0.18	0.18	-0.32	-0.29	0	0	0	0	0	0
11/6/2024 18:55	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 18:55	14802	TREI_T2	0	0	0	0	0	0	0.38	0.45	0	0	0	0	0	0
11/6/2024 18:55	67605	WARW_T1	10	14	4	0.24	0.43	0.19	-0.96	-1.04	0	0	0	0	0	0
11/6/2024 18:55	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.08	0	0	0	0	0	0
11/6/2024 18:55	10903	COOP_T2	19	29	10	0.14	0.19	0.05	-0.26	-0.28	1	1	0	600	600	0
11/6/2024 18:56	55002	NEWP_T1	4	4	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/6/2024 18:56	15703	TANN_T2	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
11/6/2024 18:56	13302	ORVI_T2	1	1	0	0.1	0.1	0	0.26	0.34	0	0	0	0	0	0
11/6/2024 18:56	66504	SMAN_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
11/6/2024 18:56	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
11/6/2024 18:56	13303	ORVI_T1	0	0	0	0	0	0	0.99	0.97	0	0	0	0	0	0
11/6/2024 18:56	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 18:57	64305	LINC_T1	0	0	0	0	0	0	-0.2	-0.34	0	0	0	0	0	0
11/6/2024 18:57	67502	WEWI_T2	0	164	164	0	0.18	0.18	-0.32	-0.29	0	0	0	0	0	0
11/6/2024 18:57	15703	TANN_T2	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
11/6/2024 18:57	67503	WEWI_T2	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
11/6/2024 18:57	58401	MORO_T1	0	0	0	0	0	0	-2.84	-2.91	2	2	0	1200	1200	0
11/6/2024 18:57	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
11/6/2024 18:57	14403	SSLA_T1	0	0	0	0	0	0	0.64	0.59	0	0	0	0	0	0
11/6/2024 18:57	58402	MORO_T1	1	1	0	2.7	1.1	-1.6	0	0	0	0	0	0	0	0
11/6/2024 18:57	45501	DERR_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/6/2024 18:57	63305	GREE_T1	0	0	0	0	0	0	-1.01	-1.04	0	0	0	0	0	0
11/6/2024 18:58	65802	RTWN_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
11/6/2024 18:58	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 18:58	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 18:58	67605	WARW_T1	10	14	4	0.24	0.43	0.19	0	0	0	0	0	0	0	0
11/6/2024 18:58	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 18:58	57403	SPAN_T1	2	11	9	0.15	0.21	0.06	0	0	0	0	0	0	0	0
11/6/2024 18:58	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 18:58	13303	ORVI_T1	0	0	0	0	0	0	0.99	0.97	0	0	0	0	0	0
11/6/2024 18:58	58803	COCO_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/6/2024 18:58	63501	HEID_TBK1-2	31	33	2	0.28	0.41	0.13	-0.29	-0.31	1	1	0	900	900	0
11/6/2024 18:58	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 18:58	43302	WATS_T2	4	4	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
11/6/2024 18:58	10801	CHHI_T1	0	0	0	0	0	0	-1.39	-1.35	2	2	0	1500	1500	0
11/6/2024 18:58	57401	SPAN_T1	26	135	109	0.29	0.27	-0.02	-0.73	-0.71	1	1	0	600	600	0
11/6/2024 18:58	43304	WATS_T2	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
11/6/2024 18:58	10101	ALLE_T3	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
11/6/2024 18:58	64903	MILL_T2	0	0	0	0	0	0	0.28	0.35	0	0	0	0	0	0
11/6/2024 18:58	42903	MIDD_T2	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/6/2024 18:59	15001	BLMO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/6/2024 18:59	63803	HEMP_T1	0	0	0	0	0	0	0.66	0.74	0	0	0	0	0	0
11/6/2024 18:59	63804	HEMP_T1	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
11/6/2024 18:59	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.08	0	0	0	0	0	0
11/6/2024 18:59	63501	HEID_TBK1-2	31	33	2	0.28	0.41	0.13	-0.29	-0.31	1	1	0	900	900	0
11/6/2024 18:59	66502	SMAN_T2	0	0	0	0	0	0	-0.01	0.11	0	0	0	0	0	0
11/6/2024 18:59	63306	GREE_T1	0	0	0	0	0	0	-1.37	-1.39	1	1	0	900	900	0
11/6/2024 18:59	42903	MIDD_T2	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/6/2024 18:59	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/6/2024 18:59	65503	MOJO_T2	0	0	0	0	0	0	-0.01	0.06	0	0	0	0	0	0
11/6/2024 18:59	65502	MOJO_T2	1	160	159	0.1	0.16	0.06	0	0	0	0	0	0	0	0
11/6/2024 18:59	42902	MIDD_T2	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
11/6/2024 19:00	52403	GRPA_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
11/6/2024 19:00	52404	GRPA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/6/2024 19:00	52402	GRPA_T2	3	3	0	0.7	0.9	0.2	-0.86	-0.9	0	0	0	0	0	0
11/6/2024 19:00	58401	MORO_T1	0	0	0	0	0	0	-1.42	-1.46	1	1	0	600	600	0
11/6/2024 19:00	64802	MONE_T2	61	61	0	0.31	0.4	0.09	-0.01	-0.01	0	0	0	0	0	0
11/6/2024 19:00	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.08	0	0	0	0	0	0
11/6/2024 19:00	42903	MIDD_T2	2	2	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
11/6/2024 19:00	42902	MIDD_T2	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
11/6/2024 19:00	58402	MORO_T1	1	1	0	1.7	1	-0.7	0	0	0	0	0	0	0	0
11/6/2024 19:00	63501	HEID_TBK1-2	30	34	4	0.33	0.5	0.17	-0.29	-0.31	1	1	0	900	900	0
11/6/2024 19:00	63306	GREE_T1	0	0	0	0	0	0	-1.37	-1.39	1	1	0	900	900	0
11/6/2024 19:01	10903	COOP_T2	19	27	8	0.15	0.19	0.04	-0.26	-0.28	1	1	0	600	600	0
11/6/2024 19:01	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.08	0	0	0	0	0	0
11/6/2024 19:01	57403	SPAN_T1	6	11	5	0.17	0.21	0.04	0	0	0	0	0	0	0	0
11/6/2024 19:01	57401	SPAN_T1	60	139	79	0.25	0.27	0.02	-1.46	-1.42	2	2	0	1200	1200	0
11/6/2024 19:01	63306	GREE_T1	0	0	0	0	0	0	-1.37	-1.39	1	1	0	900	900	0
11/6/2024 19:02	57401	SPAN_T1	60	139	79	0.25	0.27	0.02	-0.73	-0.71	1	1	0	600	600	0
11/6/2024 19:02	58402	MORO_T1	1	1	0	1.7	1	-0.7	0	0	0	0	0	0	0	0
11/6/2024 19:02	66505	SMAN_T2	0	0	0	0	0	0	0.16	0.12	2	2	0	1500	1500	0
11/6/2024 19:02	45501	DERR_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/6/2024 19:02	63804	HEMP_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
11/6/2024 19:02	57403	SPAN_T1	6	11	5	0.17	0.21	0.04	0.07	0.13	0	0	0	0	0	0
11/6/2024 19:02	58401	MORO_T1	0	0	0	0	0	0	-1.42	-1.46	1	1	0	600	600	0
11/6/2024 19:02	63803	HEMP_T1	0	0	0	0	0	0	1.32	1.47	0	0	0	0	0	0
11/6/2024 19:03	20403	ASHF_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
11/6/2024 19:03	65802	RTWN_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
11/6/2024 19:03	65502	MOJO_T2	57	176	119	0.11	0.15	0.04	0	0	0	0	0	0	0	0
11/6/2024 19:03	13303	ORVI_T1	0	0	0	0	0	0	0.99	0.97	0	0	0	0	0	0
11/6/2024 19:03	65205	PRIN_T1	1	8	7	2	0.4	-1.6	0	0	0	0	0	0	0	0
11/6/2024 19:03	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/6/2024 19:04	67503	WEWI_T2	1	1	0	7	7.2	0.2	-0.49	-0.47	0	0	0	0	0	0
11/6/2024 19:04	63305	GREE_T1	0	0	0	0	0	0	-1.01	-1.04	0	0	0	0	0	0
11/6/2024 19:04	67502	WEWI_T2	16	164	148	0.11	0.18	0.07	0	0	0	0	0	0	0	0
11/6/2024 19:05	63804	HEMP_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
11/6/2024 19:05	57403	SPAN_T1	6	11	5	0.17	0.21	0.04	0.07	0.13	0	0	0	0	0	0
11/6/2024 19:05	60803	BUCK_T1	14	17	3	0.26	0.47	0.21	0	0	0	0	0	0	0	0
11/6/2024 19:05	57401	SPAN_T1	60	139	79	0.25	0.27	0.02	0	0	0	0	0	0	0	0
11/6/2024 19:05	63302	GREE_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
11/6/2024 19:05	63801	HEMP_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
11/6/2024 19:05	63501	HEID_TBK1-2	30	34	4	0.33	0.5	0.17	-0.29	-0.31	1	1	0	900	900	0
11/6/2024 19:05	60801	BUCK_T1	28	38	10	0.19	0.27	0.08	-0.14	-0.17	0	0	0	0	0	0
11/6/2024 19:06	67605	WARW_T1	10	15	5	0.2	0.5	0.3	-1.04	-1.04	0	0	0	0	0	0
11/6/2024 19:06	64101	REFR_T1	0	0	0	0	0	0	-0.16	-0.24	0	0	0	0	0	0
11/6/2024 19:06	14801	TREI_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
11/6/2024 19:06	63501	HEID_TBK1-2	30	34	4	0.33	0.5	0.17	-0.31	-0.32	1	1	0	900	900	0
11/6/2024 19:08	46004	BERW_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
11/6/2024 19:08	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
11/6/2024 19:09	67605	WARW_T1	10	15	5	0.2	0.5	0.3	-1.04	-1.04	0	0	0	0	0	0
11/6/2024 19:09	64802	MONE_T2	61	61	0	0.31	0.4	0.09	-0.01	-0.01	0	0	0	0	0	0
11/6/2024 19:09	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
11/6/2024 19:09	63804	HEMP_T1	1	1	0	5.4	5.3	-0.1	0.99	0.95	0	0	0	0	0	0
11/6/2024 19:10	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
11/6/2024 19:11	64904	MILL_T1	0	1	1	0	0	0	0.62	0.6	0	0	0	0	0	0
11/6/2024 19:11	64901	MILL_T1	0	14	14	0	0.16	0.16	0	0	0	0	0	0	0	0
11/6/2024 19:41	46802	HEPB_T1	9	8	-1	0.28	0.28	0	-0.25	-0.3	0	0	0	0	0	0
11/6/2024 19:52	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
11/6/2024 20:34	43802	SWIL_T1	0	0	0	0	0	0	-0.25	-0.25	1	1	0	600	600	0
11/6/2024 20:34	43801	SWIL_T1	5	16	11	1.38	0.51	-0.87	0	0	0	0	0	0	0	0
11/6/2024 21:03	11203	ELHE_T1	0	0	0	0	0	0	1.02	0.95	0	0	0	0	0	0
11/7/2024 7:27	54502	ENOL_T2	1	1	0	0.7	0.7	0	-2.12	-2.12	1	1	0	600	600	0
11/7/2024 7:27	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/7/2024 7:27	54505	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
11/7/2024 7:32	45702	LIND_T2	1	1	0	0.3	0.7	0.4	-1.78	-1.12	0	0	0	0	0	0
11/7/2024 7:36	66505	SMAN_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/7/2024 7:36	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 7:43	11202	ELHE_T2	0	0	0	0	0	0	0.48	0.47	1	1	0	1200	1200	0
11/7/2024 7:52	15601	NSTR_T2	3	3	0	0.83	1.3	0.47	0	0	0	0	0	0	0	0
11/7/2024 7:52	15603	NSTR_T2	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
11/7/2024 7:53	15203	SFAR_T2	0	0	0	0	0	0	-1.33	-1.33	0	0	0	0	0	0
11/7/2024 7:54	15203	SFAR_T2	0	4	4	0	0.18	0.18	-2.66	-2.66	0	0	0	0	0	0
11/7/2024 7:55	15203	SFAR_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
11/7/2024 8:00	24702	FLND_T2	0	0	0	0	0	0	0.36	0.14	1	1	0	1200	1200	0
11/7/2024 8:01	63305	GREE_T1	1	4	3	0.4	0.18	-0.22	-1.9	-2.03	1	1	0	900	900	0
11/7/2024 8:01	24702	FLND_T2	0	0	0	0	0	0	0.36	0.14	1	1	0	1200	1200	0
11/7/2024 8:03	20801	LOPO_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/7/2024 8:03	26704	HEML_T2	32	61	29	0.12	0.15	0.03	-0.76	-0.77	1	1	0	1200	1200	0
11/7/2024 8:03	20802	LOPO_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/7/2024 8:06	24204	PROV_T3	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
11/7/2024 8:06	24201	PROV_T3	1	1	0	7.4	6.9	-0.5	-0.18	-0.16	0	0	0	0	0	0
11/7/2024 8:07	13704	SCHN_T2	0	0	0	0	0	0	-0.36	-0.32	0	0	0	0	0	0
11/7/2024 8:09	13704	SCHN_T2	0	0	0	0	0	0	-0.36	-0.32	0	0	0	0	0	0
11/7/2024 8:10	15203	SFAR_T2	0	6	6	0	0.17	0.17	-1.33	-1.32	0	0	0	0	0	0
11/7/2024 8:11	46001	BERW_T1	0	0	0	0	0	0	1	1.33	0	0	0	0	0	0
11/7/2024 8:12	46002	BERW_T2	0	0	0	0	0	0	-1.5	-1.61	2	2	0	1800	1800	0
11/7/2024 8:15	50202	HARR_T3	0	0	0	0	0	0	-1.63	-1.64	0	0	0	0	0	0
11/7/2024 8:15	50105	HARR_T3	6	6	0	5.82	5.95	0.13	0	0	0	0	0	0	0	0
11/7/2024 8:15	50107	HARR_T3	1	1	0	7.1	7	-0.1	0	0	0	0	0	0	0	0
11/7/2024 8:15	50201	HARR_T3	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/7/2024 8:15	50103	HARR_T3	2	2	0	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
11/7/2024 8:16	12006	HATF_T1	0	0	0	0	0	0	-0.27	-0.33	2	2	0	2400	2400	0
11/7/2024 8:16	12002	HATF_T1	1	1	0	2	2	0	0	0	0	0	0	0	0	0
11/7/2024 8:16	12001	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/7/2024 8:17	46102	MACI_T1	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
11/7/2024 8:19	45701	LIND_T2	0	0	0	0	0	0	-0.25	-0.29	0	0	0	0	0	0
11/7/2024 8:19	45702	LIND_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
11/7/2024 8:23	13905	SEID_T1	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
11/7/2024 8:37	15203	SFAR_T2	5	2	-3	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
11/7/2024 8:37	67001	STHI_T2	0	1	1	0	0.1	0.1	0.04	0.06	0	0	0	0	0	0
11/7/2024 8:37	15204	SFAR_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
11/7/2024 8:37	67002	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 8:42	13901	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 8:42	17901	BART_T1	0	0	0	0	0	0	1.22	1.32	1	1	0	1200	1200	0
11/7/2024 8:46	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 8:46	21206	ECAR_T2	1	1	0	7.6	7.4	-0.2	0.47	0.45	0	0	0	0	0	0
11/7/2024 8:46	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 8:46	53501	EVIL_T2	2	2	0	0.7	0.85	0.15	-0.19	-0.17	2	2	0	1200	1200	0
11/7/2024 8:47	23901	EFMO_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
11/7/2024 8:51	15203	SFAR_T2	0	3	3	0	0.4	0.4	-2.6	-2.56	0	0	0	0	0	0
11/7/2024 8:52	15203	SFAR_T2	0	3	3	0	0.4	0.4	-1.3	-1.28	0	0	0	0	0	0
11/7/2024 8:54	15203	SFAR_T2	0	3	3	0	0.4	0.4	-1.3	-1.28	0	0	0	0	0	0
11/7/2024 8:59	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
11/7/2024 8:59	54506	ENOL_T2	0	0	0	0	0	0	0.58	0.66	1	1	0	600	600	0
11/7/2024 8:59	54502	ENOL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
11/7/2024 9:00	54502	ENOL_T2	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
11/7/2024 9:00	54506	ENOL_T2	0	0	0	0	0	0	0.58	0.66	1	1	0	600	600	0
11/7/2024 9:00	13302	ORVI_T2	0	0	0	0	0	0	1.48	1.55	0	0	0	0	0	0
11/7/2024 9:00	63501	HEID_TBK1-2	1	2	1	1.2	0.5	-0.7	0.34	0.36	2	2	0	1800	1800	0
11/7/2024 9:00	54505	ENOL_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
11/7/2024 9:00	28102	TWLA_T2	23	25	2	0.62	0.67	0.05	0.17	0.17	0	0	0	0	0	0
11/7/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
11/7/2024 9:00	67503	WEWI_T2	1	1	0	8.8	8.5	-0.3	-0.45	-0.4	0	0	0	0	0	0
11/7/2024 9:01	63804	HEMP_T1	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
11/7/2024 9:01	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 9:01	63803	HEMP_T1	1	1	0	0.2	0.4	0.2	0.02	0.06	0	0	0	0	0	0
11/7/2024 9:02	52402	GRPA_T2	6	7	1	0.35	0.54	0.19	-0.79	-0.77	0	0	0	0	0	0
11/7/2024 9:02	52401	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/7/2024 9:02	52403	GRPA_T2	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
11/7/2024 9:03	23202	HIRU_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/7/2024 9:03	23203	HIRU_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
11/7/2024 9:03	23201	HIRU_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/7/2024 9:04	23201	HIRU_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/7/2024 9:04	23202	HIRU_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/7/2024 9:04	23203	HIRU_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
11/7/2024 9:06	66903	SHIL_T2	0	1	1	0	0.6	0.6	-0.87	-0.86	0	0	0	0	0	0
11/7/2024 9:06	66901	SHIL_T2	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
11/7/2024 9:07	57401	SPAN_T1	70	21	-49	0.19	0.28	0.09	-0.99	-0.97	1	1	0	600	600	0
11/7/2024 9:07	66901	SHIL_T2	0	7	7	0	0.11	0.11	-1.59	-1.56	1	1	0	1200	1200	0
11/7/2024 9:07	66903	SHIL_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
11/7/2024 9:08	15204	SFAR_T2	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
11/7/2024 9:08	15203	SFAR_T2	2	4	2	0.15	0.53	0.38	-1.28	-1.25	0	0	0	0	0	0
11/7/2024 9:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 9:09	66903	SHIL_T2	0	1	1	0	0.6	0.6	-0.87	-0.86	0	0	0	0	0	0
11/7/2024 9:09	57401	SPAN_T1	70	21	-49	0.19	0.28	0.09	-0.99	-0.97	1	1	0	600	600	0
11/7/2024 9:09	57403	SPAN_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
11/7/2024 9:09	63501	HEID_TBK1-2	1	2	1	1.2	0.5	-0.7	0.18	0.17	1	1	0	900	900	0
11/7/2024 9:09	24201	PROV_T3	1	1	0	6.7	6.8	0.1	-0.16	-0.1	0	0	0	0	0	0
11/7/2024 9:09	66901	SHIL_T2	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
11/7/2024 9:09	24204	PROV_T3	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
11/7/2024 9:10	15203	SFAR_T2	2	4	2	0.15	0.53	0.38	-1.28	-1.25	0	0	0	0	0	0
11/7/2024 9:10	57401	SPAN_T1	70	21	-49	0.19	0.28	0.09	-0.99	-0.97	1	1	0	600	600	0
11/7/2024 9:11	66901	SHIL_T2	0	7	7	0	0.11	0.11	-1.59	-1.56	1	1	0	1200	1200	0
11/7/2024 9:11	20401	ASHF_T2	2	2	0	0.15	0.2	0.05	-0.34	-0.27	0	0	0	0	0	0
11/7/2024 9:11	13704	SCHN_T2	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
11/7/2024 9:11	66903	SHIL_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
11/7/2024 9:11	20403	ASHF_T2	2	33	31	0.55	0.23	-0.32	0	0	0	0	0	0	0	0
11/7/2024 9:11	43301	WATS_T2	0	0	0	0	0	0	-0.86	-0.88	1	1	0	900	900	0
11/7/2024 9:12	20403	ASHF_T2	2	33	31	0.55	0.23	-0.32	1.08	1.11	0	0	0	0	0	0
11/7/2024 9:12	15203	SFAR_T2	2	4	2	0.15	0.53	0.38	-2.56	-2.5	0	0	0	0	0	0
11/7/2024 9:12	20401	ASHF_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
11/7/2024 9:13	15203	SFAR_T2	2	4	2	0.15	0.53	0.38	-1.28	-1.25	0	0	0	0	0	0
11/7/2024 9:13	23901	EFMO_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
11/7/2024 9:15	57505	LAWN_T3	4	3	-1	0.38	0.37	-0.01	0.51	0.53	0	0	0	0	0	0
11/7/2024 9:17	45701	LIND_T2	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
11/7/2024 9:17	45702	LIND_T2	1	1	0	0.8	0.7	-0.1	-1.76	-1.75	0	0	0	0	0	0
11/7/2024 9:18	63501	HEID_TBK1-2	1	2	1	0.8	1	0.2	0.18	0.17	1	1	0	900	900	0
11/7/2024 9:19	63501	HEID_TBK1-2	1	2	1	0.8	1	0.2	0.18	0.17	1	1	0	900	900	0
11/7/2024 9:20	24202	PROV_T4	0	1	1	0	1.2	1.2	-0.5	-0.41	1	1	0	1200	1200	0
11/7/2024 9:21	45702	LIND_T2	1	1	0	0.8	0.7	-0.1	-1.76	-1.75	0	0	0	0	0	0
11/7/2024 9:23	13704	SCHN_T2	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
11/7/2024 9:24	16504	STRO_T1	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
11/7/2024 9:27	10101	ALLE_T3	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
11/7/2024 9:27	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 9:29	15703	TANN_T2	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
11/7/2024 9:29	15702	TANN_T2	0	0	0	0	0	0	-0.97	-0.93	0	0	0	0	0	0
11/7/2024 9:32	63302	GREE_T1	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
11/7/2024 9:32	63305	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 9:33	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
11/7/2024 9:33	15702	TANN_T2	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
11/7/2024 9:37	58003	WCAR_T1	1	1	0	0.8	0.5	-0.3	0.36	0.34	1	1	0	600	600	0
11/7/2024 9:37	58001	WCAR_T1	4	4	0	0.88	0.78	-0.1	0	0	0	0	0	0	0	0
11/7/2024 9:39	46004	BERW_T2	1	1	0	1.7	0	-1.7	-0.09	-0.19	0	0	0	0	0	0
11/7/2024 9:40	46001	BERW_T1	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
11/7/2024 9:40	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 9:40	46004	BERW_T2	1	1	0	1.7	0	-1.7	-0.09	-0.19	0	0	0	0	0	0
11/7/2024 9:41	46001	BERW_T1	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
11/7/2024 9:41	13905	SEID_T1	0	0	0	0	0	0	0.25	0.32	0	0	0	0	0	0
11/7/2024 9:41	13901	SEID_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/7/2024 9:43	12001	HATF_T1	0	0	0	0	0	0	1.63	1.74	2	2	0	1200	1200	0
11/7/2024 9:43	53501	EVIL_T2	2	3	1	0.8	0.95	0.15	-1.15	-0.69	6	6	0	3600	3600	0
11/7/2024 9:43	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 9:43	12002	HATF_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
11/7/2024 9:44	46002	BERW_T2	0	0	0	0	0	0	-0.64	-0.61	1	1	0	900	900	0
11/7/2024 9:44	46004	BERW_T2	1	1	0	1.7	0	-1.7	0	0	0	0	0	0	0	0
11/7/2024 9:44	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 9:45	53501	EVIL_T2	2	3	1	0.95	0.63	-0.32	-0.77	-0.46	4	4	0	2400	2400	0
11/7/2024 9:45	53502	EVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/7/2024 9:45	46803	HEPB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/7/2024 9:45	46801	HEPB_T2	2	2	0	1.2	1.1	-0.1	0.48	0.52	0	0	0	0	0	0
11/7/2024 9:45	12002	HATF_T1	1	0	-1	1.8	0	-1.8	0.77	0.6	1	1	0	1200	1200	0
11/7/2024 9:46	53502	EVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/7/2024 9:46	53501	EVIL_T2	2	3	1	0.95	0.63	-0.32	-0.38	-0.23	2	2	0	1200	1200	0
11/7/2024 9:46	23202	HIRU_T2	1	1	0	0.2	0.2	0	0.09	0.09	0	0	0	0	0	0
11/7/2024 9:46	23201	HIRU_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
11/7/2024 9:49	15203	SFAR_T2	4	4	0	0.4	0.43	0.03	-1.27	-1.22	0	0	0	0	0	0
11/7/2024 9:52	66504	SMAN_T2	0	0	0	0	0	0	-0.32	-0.26	0	0	0	0	0	0
11/7/2024 9:53	14802	TREI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/7/2024 9:53	14801	TREI_T2	4	5	1	0.4	0.46	0.06	0.29	0.31	0	0	0	0	0	0
11/7/2024 9:53	67502	WEWI_T2	0	2	2	0	0.5	0.5	-0.08	-0.16	0	0	0	0	0	0
11/7/2024 9:53	67503	WEWI_T2	1	1	0	8.5	8.7	0.2	0	0	0	0	0	0	0	0
11/7/2024 9:53	66504	SMAN_T2	0	0	0	0	0	0	-0.64	-0.52	0	0	0	0	0	0
11/7/2024 9:54	67503	WEWI_T2	1	1	0	8.5	8.7	0.2	0	0	0	0	0	0	0	0
11/7/2024 9:54	67502	WEWI_T2	0	2	2	0	0.5	0.5	-0.08	-0.16	0	0	0	0	0	0
11/7/2024 9:55	67502	WEWI_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
11/7/2024 9:55	43304	WATS_T2	0	1	1	0	0.2	0.2	-0.56	-0.51	0	0	0	0	0	0
11/7/2024 9:55	67503	WEWI_T2	1	1	0	8.5	8.7	0.2	-0.37	-0.33	0	0	0	0	0	0
11/7/2024 9:56	45501	DERR_T2	0	0	0	0	0	0	1.74	1.93	4	4	0	3600	3600	0
11/7/2024 9:56	46001	BERW_T1	0	0	0	0	0	0	0.6	0.71	0	0	0	0	0	0
11/7/2024 9:57	43304	WATS_T2	0	1	1	0	0.2	0.2	-0.56	-0.51	0	0	0	0	0	0
11/7/2024 9:57	67605	WARW_T1	36	27	-9	0.55	0.57	0.02	-2.13	-2.05	0	0	0	0	0	0
11/7/2024 9:57	67603	WARW_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/7/2024 9:57	13303	ORVI_T1	0	0	0	0	0	0	1.1	1.08	0	0	0	0	0	0
11/7/2024 9:59	54502	ENOL_T2	1	1	0	1	0.9	-0.1	-2.11	-2.1	1	1	0	600	600	0
11/7/2024 9:59	67603	WARW_T1	1	1	0	0.1	0.2	0.1	-0.03	0	0	0	0	0	0	0
11/7/2024 9:59	54504	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 9:59	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/7/2024 9:59	67605	WARW_T1	36	27	-9	0.55	0.57	0.02	0	0	0	0	0	0	0	0
11/7/2024 10:00	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 10:00	21206	ECAR_T2	1	1	0	7.7	7.6	-0.1	0.42	0.41	0	0	0	0	0	0
11/7/2024 10:02	25402	LAHA_T2	0	0	0	0	0	0	-0.35	-0.21	0	0	0	0	0	0
11/7/2024 10:03	54505	ENOL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
11/7/2024 10:03	54501	ENOL_T2	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
11/7/2024 10:03	54502	ENOL_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
11/7/2024 10:03	54504	ENOL_T2	0	1	1	0	7.5	7.5	0	0	0	0	0	0	0	0
11/7/2024 10:08	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 10:11	42701	AUGU_T1	1	1	0	0.8	0.8	0	0	0	2	2	0	1800	1800	0
11/7/2024 10:12	10805	CHHI_T2	1	3	2	7.6	2.63	-4.97	-1.41	-1.57	1	1	0	1200	1200	0
11/7/2024 10:12	10903	COOP_T2	4	4	0	0.5	0.43	-0.07	0.17	0.14	1	1	0	600	600	0
11/7/2024 10:13	55101	WERT_T1	0	0	0	0	0	0	-0.79	-0.93	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/7/2024 10:13	67605	WARW_T1	27	29	2	0.53	0.58	0.05	0	0	0	0	0	0	0	0
11/7/2024 10:13	67603	WARW_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
11/7/2024 10:13	17803	GILB_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
11/7/2024 10:13	17805	GILB_T2	3	3	0	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
11/7/2024 10:13	17804	GILB_T2	3	3	0	0.73	0.33	-0.4	-0.63	-0.61	0	0	0	0	0	0
11/7/2024 10:14	44801	EDAN_T2	1	3	2	0.5	0.6	0.1	-0.43	-0.42	0	0	0	0	0	0
11/7/2024 10:14	17805	GILB_T2	3	3	0	0.4	0.37	-0.03	0.52	0.46	0	0	0	0	0	0
11/7/2024 10:14	47401	PENS_T1	3	0	-3	0.53	0	-0.53	-0.26	0.39	0	0	0	0	0	0
11/7/2024 10:14	47402	PENS_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
11/7/2024 10:14	17803	GILB_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
11/7/2024 10:14	47403	PENS_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
11/7/2024 10:14	17804	GILB_T2	3	3	0	0.73	0.33	-0.4	0	0	0	0	0	0	0	0
11/7/2024 10:15	17804	GILB_T2	2	3	1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
11/7/2024 10:15	17803	GILB_T2	5	0	-5	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/7/2024 10:15	17805	GILB_T2	2	5	3	0.35	0.48	0.13	0.26	0.23	0	0	0	0	0	0
11/7/2024 10:16	17803	GILB_T2	5	0	-5	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/7/2024 10:16	17804	GILB_T2	2	3	1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
11/7/2024 10:16	10801	CHHI_T1	3	3	0	0.3	0.2	-0.1	-1.42	-1.31	2	2	0	1500	1500	0
11/7/2024 10:16	44801	EDAN_T2	0	3	3	0	0.7	0.7	-0.43	-0.42	0	0	0	0	0	0
11/7/2024 10:16	17805	GILB_T2	2	5	3	0.35	0.48	0.13	0.52	0.46	0	0	0	0	0	0
11/7/2024 10:17	23201	HIRU_T2	2	2	0	0.15	0.2	0.05	0.14	0.13	0	0	0	0	0	0
11/7/2024 10:17	17805	GILB_T2	2	5	3	0.35	0.48	0.13	0.26	0.23	0	0	0	0	0	0
11/7/2024 10:17	17803	GILB_T2	5	0	-5	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/7/2024 10:17	17804	GILB_T2	2	3	1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
11/7/2024 10:17	23202	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 10:19	10101	ALLE_T3	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
11/7/2024 10:19	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 10:23	41902	REED_T1	0	0	0	0	0	0	1.03	1.01	0	0	0	0	0	0
11/7/2024 10:23	65503	MOJO_T2	0	0	0	0	0	0	-0.71	-0.66	1	1	0	900	900	0
11/7/2024 10:24	15602	NSTR_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
11/7/2024 10:24	15603	NSTR_T2	1	1	0	0.6	0.6	0	-0.68	-0.69	0	0	0	0	0	0
11/7/2024 10:24	15601	NSTR_T2	2	3	1	0.15	0.33	0.18	0	0	0	0	0	0	0	0
11/7/2024 10:25	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 10:25	40303	TAMA_T3	0	0	0	0	0	0	2.6	2.61	0	0	0	0	0	0
11/7/2024 10:28	21206	ECAR_T2	1	1	0	7.6	7.6	0	0	0	0	0	0	0	0	0
11/7/2024 10:28	48902	FOSP_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
11/7/2024 10:28	48901	FOSP_T2	0	0	0	0	0	0	-0.07	-0.02	1	1	0	600	600	0
11/7/2024 10:28	21204	ECAR_T2	1	1	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
11/7/2024 10:29	15602	NSTR_T2	1	1	0	0.5	0.2	-0.3	0.09	0.16	0	0	0	0	0	0
11/7/2024 10:29	15603	NSTR_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
11/7/2024 10:29	15601	NSTR_T2	2	3	1	0.15	0.33	0.18	0	0	0	0	0	0	0	0
11/7/2024 10:29	10801	CHHI_T1	3	3	0	0.3	0.2	-0.1	-1.31	-1.31	2	2	0	1500	1500	0
11/7/2024 10:30	48901	FOSP_T2	0	0	0	0	0	0	-0.14	-0.04	2	2	0	1200	1200	0
11/7/2024 10:30	44801	EDAN_T2	3	1	-2	0.6	1	0.4	0	0	0	0	0	0	0	0
11/7/2024 10:30	48902	FOSP_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/7/2024 10:30	47203	FAXO_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
11/7/2024 10:30	44802	EDAN_T2	0	0	0	0	0	0	-4.21	-4.22	0	0	0	0	0	0
11/7/2024 10:31	57101	SPHI_T2	6	6	0	1	1.18	0.18	0	0	0	0	0	0	0	0
11/7/2024 10:31	44801	EDAN_T2	3	1	-2	0.6	1	0.4	0	0	0	0	0	0	0	0
11/7/2024 10:31	57106	SPHI_T2	3	3	0	1.63	1.63	0	0	0	0	0	0	0	0	0
11/7/2024 10:31	57103	SPHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/7/2024 10:31	44802	EDAN_T2	0	0	0	0	0	0	-4.21	-4.22	0	0	0	0	0	0
11/7/2024 10:31	57104	SPHI_T2	5	7	2	3.22	0.91	-2.31	-1.77	-1.71	1	1	0	900	900	0
11/7/2024 10:32	48901	FOSP_T2	0	0	0	0	0	0	-0.14	-0.04	2	2	0	1200	1200	0
11/7/2024 10:32	48902	FOSP_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/7/2024 10:33	44802	EDAN_T2	0	0	0	0	0	0	-4.21	-4.22	0	0	0	0	0	0
11/7/2024 10:33	48901	FOSP_T2	0	0	0	0	0	0	-0.07	-0.02	1	1	0	600	600	0
11/7/2024 10:33	44801	EDAN_T2	3	1	-2	0.6	1	0.4	0	0	0	0	0	0	0	0
11/7/2024 10:33	48902	FOSP_T2	1	2	1	0.1	0.3	0.2	0.32	0.44	0	0	0	0	0	0
11/7/2024 10:37	57401	SPAN_T1	14	32	18	0.44	0.36	-0.08	-0.91	-0.97	1	1	0	600	600	0
11/7/2024 10:37	57403	SPAN_T1	2	5	3	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
11/7/2024 10:38	57401	SPAN_T1	14	32	18	0.44	0.36	-0.08	-0.91	-0.97	1	1	0	600	600	0
11/7/2024 10:38	57403	SPAN_T1	2	5	3	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
11/7/2024 10:39	66502	SMAN_T2	0	0	0	0	0	0	0.32	0.24	0	0	0	0	0	0
11/7/2024 10:39	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 10:40	57403	SPAN_T1	2	5	3	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
11/7/2024 10:40	57401	SPAN_T1	14	32	18	0.44	0.36	-0.08	-0.91	-0.97	1	1	0	600	600	0
11/7/2024 10:41	66505	SMAN_T2	0	0	0	0	0	0	0.85	0.73	2	2	0	1100	1100	0
11/7/2024 10:41	54601	SUMM_T2	0	13	13	0	0.42	0.42	-3.91	-3.89	2	2	0	2100	2100	0
11/7/2024 10:41	54602	SUMM_T2	0	14	14	0	0.29	0.29	0	0	0	0	0	0	0	0
11/7/2024 10:41	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 10:42	57401	SPAN_T1	14	32	18	0.44	0.36	-0.08	-0.91	-0.97	1	1	0	600	600	0
11/7/2024 10:42	57403	SPAN_T1	2	5	3	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
11/7/2024 10:43	60803	BUCK_T1	7	13	6	0.16	0.2	0.04	0	0	0	0	0	0	0	0
11/7/2024 10:43	40703	FFLD_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/7/2024 10:43	40702	FFLD_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
11/7/2024 10:43	60801	BUCK_T1	0	1	1	0	0.2	0.2	0.09	0.07	0	0	0	0	0	0
11/7/2024 10:43	40701	FFLD_T1	0	14	14	0	0.15	0.15	0	0	0	0	0	0	0	0
11/7/2024 10:44	54504	ENOL_T2	1	0	-1	7.5	0	-7.5	0	0	0	0	0	0	0	0
11/7/2024 10:44	54505	ENOL_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
11/7/2024 10:44	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	-2.08	-2.06	1	1	0	600	600	0
11/7/2024 10:45	63802	HEMP_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/7/2024 10:45	63804	HEMP_T1	1	1	0	5.8	6.1	0.3	0	0	0	0	0	0	0	0
11/7/2024 10:45	63801	HEMP_T1	3	1	-2	0.43	0.8	0.37	0	0	0	0	0	0	0	0
11/7/2024 10:45	63803	HEMP_T1	6	3	-3	0.32	0.37	0.05	0.06	0.07	0	0	0	0	0	0
11/7/2024 10:46	48901	FOSP_T2	0	1	1	0	0.2	0.2	-0.02	-0.06	1	1	0	600	600	0
11/7/2024 10:46	63803	HEMP_T1	6	3	-3	0.32	0.37	0.05	0.06	0.07	0	0	0	0	0	0
11/7/2024 10:46	44801	EDAN_T2	1	4	3	1	0.58	-0.42	-0.44	-0.38	0	0	0	0	0	0
11/7/2024 10:46	63804	HEMP_T1	1	1	0	5.8	6.1	0.3	0	0	0	0	0	0	0	0
11/7/2024 10:46	63802	HEMP_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/7/2024 10:46	48902	FOSP_T2	1	2	1	0.4	0.3	-0.1	0.44	0.45	0	0	0	0	0	0
11/7/2024 10:46	63801	HEMP_T1	3	1	-2	0.43	0.8	0.37	0	0	0	0	0	0	0	0
11/7/2024 10:47	44802	EDAN_T2	0	0	0	0	0	0	-2.11	-2.1	0	0	0	0	0	0
11/7/2024 10:47	44801	EDAN_T2	1	4	3	1	0.58	-0.42	0	0	0	0	0	0	0	0
11/7/2024 10:48	63803	HEMP_T1	6	3	-3	0.32	0.37	0.05	0.06	0.07	0	0	0	0	0	0
11/7/2024 10:48	63802	HEMP_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/7/2024 10:48	63801	HEMP_T1	3	1	-2	0.43	0.8	0.37	0	0	0	0	0	0	0	0
11/7/2024 10:48	63804	HEMP_T1	1	1	0	5.8	6.1	0.3	0	0	0	0	0	0	0	0
11/7/2024 10:49	64904	MILL_T1	0	0	0	0	0	0	0.57	0.54	0	0	0	0	0	0
11/7/2024 10:49	46803	HEPB_T2	2	4	2	0.45	0.28	-0.17	0	0	0	0	0	0	0	0
11/7/2024 10:49	46801	HEPB_T2	2	2	0	1.05	1.2	0.15	0.54	0.7	0	0	0	0	0	0
11/7/2024 10:52	15203	SFAR_T2	3	4	1	0.5	0.35	-0.15	-1.2	-1.18	0	0	0	0	0	0
11/7/2024 10:53	55002	NEWP_T1	7	11	4	0.97	0.86	-0.11	-0.23	-0.24	0	0	0	0	0	0
11/7/2024 10:53	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 10:53	61001	DONV_T1	1	1	0	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
11/7/2024 10:53	57403	SPAN_T1	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0	0
11/7/2024 10:53	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 10:53	67402	WAKE_T2	0	0	0	0	0	0	0.43	0.43	1	1	0	600	600	0
11/7/2024 10:53	57401	SPAN_T1	32	22	-10	0.36	0.39	0.03	-0.97	-0.81	1	1	0	600	600	0
11/7/2024 10:54	64902	MILL_T2	2	0	-2	0.3	0	-0.3	-0.51	-0.55	1	1	0	900	900	0
11/7/2024 10:54	57403	SPAN_T1	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0	0
11/7/2024 10:54	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 10:54	67402	WAKE_T2	0	0	0	0	0	0	0.43	0.43	1	1	0	600	600	0
11/7/2024 10:54	64903	MILL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
11/7/2024 10:54	57401	SPAN_T1	32	22	-10	0.36	0.39	0.03	-0.97	-0.81	1	1	0	600	600	0
11/7/2024 10:55	57403	SPAN_T1	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0	0
11/7/2024 10:55	57401	SPAN_T1	32	22	-10	0.36	0.39	0.03	-1.93	-1.61	2	2	0	1200	1200	0
11/7/2024 10:56	57401	SPAN_T1	32	22	-10	0.36	0.39	0.03	-1.93	-1.61	2	2	0	1200	1200	0
11/7/2024 10:56	57403	SPAN_T1	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0	0
11/7/2024 10:57	11202	ELHE_T2	0	0	0	0	0	0	0.54	0.52	1	1	0	1200	1200	0
11/7/2024 10:58	57401	SPAN_T1	32	22	-10	0.36	0.39	0.03	-0.97	-0.81	1	1	0	600	600	0
11/7/2024 10:58	57403	SPAN_T1	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0	0
11/7/2024 10:59	14203	EALL_T1	0	1	1	0	0	0	-0.13	-0.17	1	1	0	1200	1200	0
11/7/2024 11:00	14203	EALL_T1	0	2	2	0	0.1	0.1	-0.13	-0.17	1	1	0	1200	1200	0
11/7/2024 11:03	63803	HEMP_T1	3	1	-2	0.37	0.5	0.13	0.07	0.08	0	0	0	0	0	0
11/7/2024 11:03	63804	HEMP_T1	1	1	0	6.1	6.4	0.3	0	0	0	0	0	0	0	0
11/7/2024 11:03	63801	HEMP_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
11/7/2024 11:12	67605	WARW_T1	17	22	5	0.51	0.55	0.04	-1.04	-1	0	0	0	0	0	0
11/7/2024 11:12	67603	WARW_T1	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/7/2024 11:12	42701	AUGU_T1	1	1	0	0.8	1	0.2	0	0	2	2	0	1800	1800	0
11/7/2024 11:13	42701	AUGU_T1	1	1	0	0.8	1	0.2	0	0	2	2	0	1800	1800	0
11/7/2024 11:26	42701	AUGU_T1	1	1	0	1	1	0	0	0	2	2	0	1800	1800	0
11/7/2024 11:26	14801	TREI_T2	3	2	-1	0.6	0.6	0	0	0	0	0	0	0	0	0
11/7/2024 11:26	43401	BENT_T1	1	0	-1	6.8	0	-6.8	0	0	0	0	0	0	0	0
11/7/2024 11:26	43402	BENT_T1	1	1	0	0.4	0.3	-0.1	-0.71	-0.66	1	1	0	900	900	0
11/7/2024 11:26	14802	TREI_T2	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
11/7/2024 11:27	43401	BENT_T1	1	0	-1	6.8	0	-6.8	0	0	0	0	0	0	0	0
11/7/2024 11:27	14801	TREI_T2	3	2	-1	0.6	0.6	0	0	0	0	0	0	0	0	0
11/7/2024 11:27	14802	TREI_T2	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
11/7/2024 11:27	43402	BENT_T1	1	1	0	0.4	0.3	-0.1	-0.71	-0.66	1	1	0	900	900	0
11/7/2024 11:27	42701	AUGU_T1	1	1	0	1	1	0	0	0	2	2	0	1800	1800	0
11/7/2024 11:30	54501	ENOL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/7/2024 11:30	63304	GREE_T1	0	2	2	0	0.15	0.15	-1.66	-1.51	0	0	0	0	0	0
11/7/2024 11:30	54502	ENOL_T2	1	5	4	0.8	0.42	-0.38	0	0	0	0	0	0	0	0
11/7/2024 11:30	54504	ENOL_T2	0	1	1	0	0.5	0.5	-1.07	-1.03	1	1	0	600	600	0
11/7/2024 11:30	54505	ENOL_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
11/7/2024 11:30	63306	GREE_T1	0	0	0	0	0	0	-3.91	-3.92	2	2	0	1800	1800	0
11/7/2024 11:30	63305	GREE_T1	5	6	1	0.18	0.28	0.1	0	0	0	0	0	0	0	0
11/7/2024 11:32	63304	GREE_T1	0	2	2	0	0.15	0.15	-1.66	-1.51	0	0	0	0	0	0
11/7/2024 11:32	63305	GREE_T1	5	6	1	0.18	0.28	0.1	0	0	0	0	0	0	0	0
11/7/2024 11:33	63304	GREE_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/7/2024 11:33	58402	MORO_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
11/7/2024 11:33	63306	GREE_T1	0	0	0	0	0	0	-1.96	-1.96	1	1	0	900	900	0
11/7/2024 11:33	58401	MORO_T1	0	1	1	0	0.1	0.1	-1.47	-1.39	1	1	0	600	600	0
11/7/2024 11:33	54602	SUMM_T2	15	16	1	0.37	1.06	0.69	0	0	0	0	0	0	0	0
11/7/2024 11:33	54601	SUMM_T2	13	13	0	0.45	1.02	0.57	-3.88	-3.9	2	2	0	2100	2100	0
11/7/2024 11:33	63305	GREE_T1	5	6	1	0.18	0.28	0.1	0	0	0	0	0	0	0	0
11/7/2024 11:37	67601	STHI_T2	8	11	3	0.33	0.28	-0.05	0.12	0.11	0	0	0	0	0	0
11/7/2024 11:37	67002	STHI_T2	17	19	2	0.22	0.24	0.02	0.85	0.83	0	0	0	0	0	0
11/7/2024 11:37	58401	MORO_T1	0	1	1	0	0.1	0.1	-1.39	-1.4	1	1	0	600	600	0
11/7/2024 11:37	58402	MORO_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
11/7/2024 11:38	67001	STHI_T2	8	11	3	0.33	0.28	-0.05	0.12	0.11	0	0	0	0	0	0
11/7/2024 11:38	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/7/2024 11:38	67002	STHI_T2	17	19	2	0.22	0.24	0.02	0	0	0	0	0	0	0	0
11/7/2024 11:38	58402	MORO_T1	0	1	1	0	0.6	0.6	-0.1	-0.02	2	2	0	1500	1500	0
11/7/2024 11:38	67701	WERN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 11:38	67703	WERN_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
11/7/2024 11:39	67002	STHI_T2	17	19	2	0.22	0.24	0.02	1.7	1.66	0	0	0	0	0	0
11/7/2024 11:39	67701	WERN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 11:39	67703	WERN_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
11/7/2024 11:39	67001	STHI_T2	8	11	3	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
11/7/2024 11:40	67001	STHI_T2	8	11	3	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
11/7/2024 11:40	66504	SMAN_T2	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
11/7/2024 11:40	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 11:40	67002	STHI_T2	17	19	2	0.22	0.24	0.02	3.4	3.32	0	0	0	0	0	0
11/7/2024 11:41	67001	STHI_T2	8	11	3	0.33	0.28	-0.05	0.24	0.22	0	0	0	0	0	0
11/7/2024 11:41	67703	WERN_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
11/7/2024 11:41	67002	STHI_T2	17	19	2	0.22	0.24	0.02	0	0	0	0	0	0	0	0
11/7/2024 11:41	67701	WERN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 11:42	41602	CLEV_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
11/7/2024 11:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 11:43	67001	STHI_T2	8	11	3	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
11/7/2024 11:43	67002	STHI_T2	17	19	2	0.22	0.24	0.02	0.85	0.83	0	0	0	0	0	0
11/7/2024 11:44	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 11:44	41602	CLEV_T1	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
11/7/2024 11:49	46803	HEPB_T2	2	3	1	0.6	0.63	0.03	0	0	0	0	0	0	0	0
11/7/2024 11:49	46801	HEPB_T2	2	2	0	1.2	1.35	0.15	0.58	0.57	0	0	0	0	0	0
11/7/2024 11:50	58401	MORO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 11:50	58402	MORO_T1	1	1	0	0.3	0.8	0.5	-0.1	-0.02	2	2	0	1500	1500	0
11/7/2024 11:51	55002	NEWP_T1	10	13	3	0.89	0.92	0.03	-0.44	-0.42	0	0	0	0	0	0
11/7/2024 11:52	55002	NEWP_T1	10	13	3	0.89	0.92	0.03	0	0	0	0	0	0	0	0
11/7/2024 11:52	55001	NEWP_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/7/2024 11:53	67803	WLAN_T1	3	9	6	0.23	0.23	0	0	0	0	0	0	0	0	0
11/7/2024 11:53	59102	WALK_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
11/7/2024 11:53	59101	WALK_T2	0	0	0	0	0	0	1.48	1.57	0	0	0	0	0	0
11/7/2024 11:53	54601	SUMM_T2	13	13	0	1.01	0.94	-0.07	-3.85	-3.81	2	2	0	2100	2100	0
11/7/2024 11:53	67804	WLAN_T1	6	5	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/7/2024 11:53	67805	WLAN_T1	0	0	0	0	0	0	-0.39	-0.57	0	0	0	0	0	0
11/7/2024 11:53	54602	SUMM_T2	16	16	0	1.06	0.99	-0.07	0	0	0	0	0	0	0	0
11/7/2024 11:54	54601	SUMM_T2	13	13	0	1.01	0.94	-0.07	-7.7	-7.62	4	4	0	4200	4200	0
11/7/2024 11:54	67001	STHI_T2	6	14	8	0.32	0.26	-0.06	0	0	0	0	0	0	0	0
11/7/2024 11:54	54602	SUMM_T2	16	16	0	1.06	0.99	-0.07	0	0	1	1	0	600	600	0
11/7/2024 11:54	67002	STHI_T2	12	19	7	0.24	0.25	0.01	0.83	0.81	0	0	0	0	0	0
11/7/2024 11:55	59101	WALK_T2	0	0	0	0	0	0	1.48	1.57	0	0	0	0	0	0
11/7/2024 11:55	59102	WALK_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
11/7/2024 11:55	67703	WERN_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
11/7/2024 11:56	59102	WALK_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
11/7/2024 11:56	59101	WALK_T2	0	0	0	0	0	0	1.48	1.57	0	0	0	0	0	0
11/7/2024 11:57	59102	WALK_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
11/7/2024 11:57	59101	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 12:01	63501	HEID_TBK1-2	2	4	2	0.35	0.25	-0.1	0.19	0.36	1	1	0	900	900	0
11/7/2024 12:02	63304	GREE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/7/2024 12:02	63501	HEID_TBK1-2	2	4	2	0.35	0.25	-0.1	0.19	0.36	1	1	0	900	900	0
11/7/2024 12:02	63305	GREE_T1	6	6	0	0.28	0.22	-0.06	0	0	0	0	0	0	0	0
11/7/2024 12:02	63306	GREE_T1	0	2	2	0	0.35	0.35	-1.94	-2.05	1	1	0	900	900	0
11/7/2024 12:03	63501	HEID_TBK1-2	2	4	2	0.35	0.25	-0.1	0.19	0.36	1	1	0	900	900	0
11/7/2024 12:03	45802	HEGI_T2	1	17	16	0.2	0.43	0.23	1.77	1.55	2	2	0	600	600	0
11/7/2024 12:04	45802	HEGI_T2	1	17	16	0.2	0.43	0.23	0	0	0	0	0	0	0	0
11/7/2024 12:05	40701	FFLD_T1	27	46	19	0.34	0.38	0.04	0	0	0	0	0	0	0	0
11/7/2024 12:05	40703	FFLD_T1	2	4	2	0.25	0.33	0.08	0	0	0	0	0	0	0	0
11/7/2024 12:05	40702	FFLD_T1	7	81	74	0.19	0.2	0.01	-0.93	-1.09	1	1	0	1200	1200	0
11/7/2024 12:07	57401	SPAN_T1	10	22	12	0.39	0.43	0.04	0	0	0	0	0	0	0	0
11/7/2024 12:07	57403	SPAN_T1	2	13	11	0.1	0.43	0.33	0.03	0.06	0	0	0	0	0	0
11/7/2024 12:08	14801	TREI_T2	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/7/2024 12:08	14802	TREI_T2	0	0	0	0	0	0	0.38	0.43	0	0	0	0	0	0
11/7/2024 12:09	14801	TREI_T2	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/7/2024 12:09	14802	TREI_T2	0	0	0	0	0	0	0.76	0.86	0	0	0	0	0	0
11/7/2024 12:10	48901	FOSP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 12:10	14801	TREI_T2	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/7/2024 12:10	14802	TREI_T2	0	0	0	0	0	0	0.38	0.43	0	0	0	0	0	0
11/7/2024 12:10	48902	FOSP_T2	1	1	0	0.2	0.3	0.1	0.82	0.88	0	0	0	0	0	0
11/7/2024 12:12	14802	TREI_T2	0	0	0	0	0	0	0.38	0.43	0	0	0	0	0	0
11/7/2024 12:12	46002	BERW_T2	4	7	3	0.25	0.33	0.08	0	0	0	0	0	0	0	0
11/7/2024 12:12	46004	BERW_T2	1	2	1	0.3	0.25	-0.05	-0.33	-0.25	0	0	0	0	0	0
11/7/2024 12:12	14801	TREI_T2	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/7/2024 12:15	44505	HAMI_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
11/7/2024 12:15	44502	HAMI_T2	1	1	0	3	2.9	-0.1	0	0	0	0	0	0	0	0
11/7/2024 12:18	44502	HAMI_T2	1	1	0	3	2.9	-0.1	0	0	0	0	0	0	0	0
11/7/2024 12:18	44505	HAMI_T2	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
11/7/2024 12:19	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 12:19	44502	HAMI_T2	1	1	0	3	2.9	-0.1	0	0	0	0	0	0	0	0
11/7/2024 12:20	41801	GOCI_T2	3	1	-2	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
11/7/2024 12:21	60301	TWVA_T2	0	0	0	0	0	0	-5.47	-5.48	6	6	0	5400	5400	0
11/7/2024 12:22	58402	MORO_T1	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
11/7/2024 12:22	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-0.62	-2.63	2	2	0	1200	1200	0
11/7/2024 12:25	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 12:25	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/7/2024 12:28	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 12:28	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/7/2024 12:28	51002	NHAR_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
11/7/2024 12:28	51004	NHAR_T1	2	2	0	6.35	6.1	-0.25	0.08	0.07	0	0	0	0	0	0
11/7/2024 12:29	61701	ELIZ_T1	2	2	0	2.85	3.3	0.45	0.83	0.74	0	0	0	0	0	0
11/7/2024 12:29	51602	DUKE_T2	0	4	4	0	0.3	0.3	-0.16	-0.14	0	0	0	0	0	0
11/7/2024 12:29	51604	DUKE_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
11/7/2024 12:30	51604	DUKE_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
11/7/2024 12:30	51602	DUKE_T2	1	4	3	0.4	0.33	-0.07	-0.08	-0.07	0	0	0	0	0	0
11/7/2024 12:32	51602	DUKE_T2	1	4	3	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
11/7/2024 12:32	51604	DUKE_T2	2	2	0	0.45	0.45	0	-2.1	-2.1	0	0	0	0	0	0
11/7/2024 12:36	67001	STHI_T2	25	22	-3	0.22	0.22	0	0	0	0	0	0	0	0	0
11/7/2024 12:36	67002	STHI_T2	19	18	-1	0.29	0.28	-0.01	0.84	0.85	0	0	0	0	0	0
11/7/2024 12:37	17002	RIRO_T2	36	25	-11	0.2	0.21	0.01	0.75	0.69	0	0	0	0	0	0
11/7/2024 12:42	51602	DUKE_T2	1	4	3	0.4	0.33	-0.07	-0.07	-0.09	0	0	0	0	0	0
11/7/2024 12:42	51604	DUKE_T2	2	2	0	0.45	0.45	0	-1.05	-1	0	0	0	0	0	0
11/7/2024 12:50	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 12:50	46004	BERW_T2	1	1	0	0.3	0.3	0	-0.22	-0.14	0	0	0	0	0	0
11/7/2024 12:50	46002	BERW_T2	3	1	-2	0.17	0.2	0.03	0	0	0	0	0	0	0	0
11/7/2024 12:53	55002	NEWP_T1	15	12	-3	0.85	1.23	0.38	0	0	0	0	0	0	0	0
11/7/2024 12:53	55001	NEWP_T1	2	2	0	0.2	0.15	-0.05	0	-0.01	0	0	0	0	0	0
11/7/2024 13:05	41602	CLEV_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/7/2024 13:09	14403	SSLA_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/7/2024 13:09	14402	SSLA_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
11/7/2024 13:09	59101	WALK_T2	1	0	-1	0.2	0	-0.2	2.87	2.67	0	0	0	0	0	0
11/7/2024 13:09	14401	SSLA_T1	2	2	0	0.7	0.7	0	-0.51	-0.43	0	0	0	0	0	0
11/7/2024 13:10	40301	TAMA_T3	1	1	0	0	0	0	0.44	0.44	3	3	0	2700	2700	0
11/7/2024 13:11	14402	SSLA_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
11/7/2024 13:11	14403	SSLA_T1	1	1	0	0.5	0.5	0	0.66	0.65	0	0	0	0	0	0
11/7/2024 13:11	59101	WALK_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/7/2024 13:11	14401	SSLA_T1	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
11/7/2024 13:12	59101	WALK_T2	1	0	-1	0.2	0	-0.2	1.44	1.33	0	0	0	0	0	0
11/7/2024 13:17	61001	DONV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 13:49	45802	HEGI_T2	9	30	21	0.3	0.56	0.26	0	0	0	0	0	0	0	0
11/7/2024 13:53	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 13:54	59101	WALK_T2	0	2	2	0	0.2	0.2	1.87	1.2	0	1	1	0	600	600
11/7/2024 13:55	55102	WERT_T2	0	0	0	0	0	0	-0.66	-0.68	1	1	0	600	600	0
11/7/2024 13:59	24102	EHAZ_T1	0	1	1	0	0	0	0.71	1	0	0	0	0	0	0
11/7/2024 13:59	24105	EHAZ_T1	4	4	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
11/7/2024 13:59	24101	EHAZ_T1	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
11/7/2024 14:00	67605	WARW_T1	38	42	4	0.65	0.6	-0.05	-1.03	-1.03	0	0	0	0	0	0
11/7/2024 14:00	67603	WARW_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
11/7/2024 14:01	63305	GREE_T1	2	8	6	0.4	0.33	-0.07	-1.91	-1.95	1	1	0	900	900	0
11/7/2024 14:01	63306	GREE_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/7/2024 14:03	63305	GREE_T1	2	8	6	0.4	0.33	-0.07	-1.91	-1.95	1	1	0	900	900	0
11/7/2024 14:03	63306	GREE_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/7/2024 14:04	65502	MOJO_T2	0	24	24	0	0.1	0.1	-0.43	-0.69	1	1	0	900	900	0
11/7/2024 14:05	65502	MOJO_T2	0	24	24	0	0.1	0.1	-0.43	-0.69	1	1	0	900	900	0
11/7/2024 14:08	65502	MOJO_T2	0	24	24	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 14:08	43801	SWIL_T1	53	6	-47	0.29	0.92	0.63	0	0	0	0	0	0	0	0
11/7/2024 14:08	43802	SWIL_T1	3	0	-3	0.17	0	-0.17	-0.12	-0.1	1	1	0	600	600	0
11/7/2024 14:08	65503	MOJO_T2	0	0	0	0	0	0	-0.53	-0.61	1	1	0	900	900	0
11/7/2024 14:09	67103	SPRI_T1	0	0	0	0	0	0	-1.94	-2.04	0	0	0	0	0	0
11/7/2024 14:10	57205	ROSS_T1	1	1	0	0.1	0.2	0.1	0.36	0.32	0	0	0	0	0	0
11/7/2024 14:11	43801	SWIL_T1	53	6	-47	0.29	0.92	0.63	0	0	0	0	0	0	0	0
11/7/2024 14:11	43802	SWIL_T1	3	0	-3	0.17	0	-0.17	-0.24	-0.2	2	2	0	1200	1200	0
11/7/2024 14:19	67401	WAKE_T2	0	2	2	0	0.15	0.15	-1.03	-1.05	0	0	0	0	0	0
11/7/2024 14:21	65803	RTWN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/7/2024 14:21	65802	RTWN_T2	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
11/7/2024 14:22	65205	PRIN_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
11/7/2024 14:34	59301	MCAL_T1	6	8	2	0.63	0.64	0.01	-1.75	-1.7	1	1	0	600	600	0
11/7/2024 14:36	59301	MCAL_T1	6	8	2	0.63	0.64	0.01	-1.7	-1.78	1	1	0	600	600	0
11/7/2024 14:52	59301	MCAL_T1	6	8	2	0.72	0.6	-0.12	-1.78	-1.74	1	1	0	600	600	0
11/7/2024 14:53	58401	MORO_T1	0	0	0	0	0	0	-1.35	-1.41	1	1	0	600	600	0
11/7/2024 14:53	58003	WCAR_T1	1	1	0	0.2	0.4	0.2	0.36	0.36	1	1	0	600	600	0
11/7/2024 14:53	58001	WCAR_T1	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
11/7/2024 14:54	58401	MORO_T1	0	0	0	0	0	0	-1.35	-1.41	1	1	0	600	600	0
11/7/2024 14:57	66901	SHIL_T2	8	33	25	0.13	0.13	0	0	0	0	0	0	0	0	0
11/7/2024 14:58	58001	WCAR_T1	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
11/7/2024 14:58	58003	WCAR_T1	1	1	0	0.2	0.4	0.2	0.36	0.36	1	1	0	600	600	0
11/7/2024 14:59	46002	BERW_T2	0	0	0	0	0	0	-0.89	-0.97	1	1	0	900	900	0
11/7/2024 15:06	64101	REFR_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
11/7/2024 15:07	64101	REFR_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
11/7/2024 15:09	64101	REFR_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
11/7/2024 15:13	66901	SHIL_T2	33	29	-4	0.13	0.13	0	-1.48	-1.53	1	1	0	1200	1200	0
11/7/2024 15:15	50625	CCTY_T2	4	4	0	3.43	3.48	0.05	0	0	0	0	0	0	0	0
11/7/2024 15:15	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 15:15	44702	MUNC_T2	65	91	26	0.22	0.27	0.05	0	0	0	0	0	0	0	0
11/7/2024 15:15	50623	CCTY_T2	5	5	0	5.9	5.58	-0.32	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/7/2024 15:15	44701	MUNC_T2	6	93	87	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
11/7/2024 15:15	50624	CCTY_T2	2	2	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
11/7/2024 15:15	44703	MUNC_T2	2	2	0	1.25	1.4	0.15	0	0	0	0	0	0	0	0
11/7/2024 15:20	44702	MUNC_T2	65	91	26	0.22	0.27	0.05	0	0	0	0	0	0	0	0
11/7/2024 15:20	44703	MUNC_T2	2	2	0	1.25	1.4	0.15	0.71	0.7	0	0	0	0	0	0
11/7/2024 15:20	44701	MUNC_T2	6	93	87	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
11/7/2024 15:21	57203	ROSS_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
11/7/2024 15:32	63501	HEID_TBK1-2	2	28	26	0.55	0.25	-0.3	0.09	0.05	1	1	0	900	900	0
11/7/2024 15:37	54206	PENN_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
11/7/2024 15:37	26703	HEML_T1	0	0	0	0	0	0	-0.99	-0.98	1	1	0	600	600	0
11/7/2024 15:40	44301	BEAV_T2	0	0	0	0	0	0	-0.15	-0.14	1	1	0	600	600	0
11/7/2024 15:43	43506	WWIL_T1	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
11/7/2024 15:43	43505	WWIL_T1	1	1	0	2.2	2.5	0.3	0	0	0	0	0	0	0	0
11/7/2024 15:43	43504	WWIL_T1	13	12	-1	0.32	0.4	0.08	0.57	0.54	0	0	0	0	0	0
11/7/2024 15:45	61506	EPET_T2	0	0	0	0	0	0	-1.45	-1.53	2	2	0	1800	1800	0
11/7/2024 16:04	46803	HEPB_T2	0	3	3	0	0.1	0.1	0.44	0.44	0	0	0	0	0	0
11/7/2024 16:04	46801	HEPB_T2	9	17	8	0.44	0.26	-0.18	0	0	0	0	0	0	0	0
11/7/2024 16:05	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 16:05	22701	MINO_T1	0	0	0	0	0	0	-1.06	-0.97	1	1	0	600	600	0
11/7/2024 16:08	13303	ORVI_T1	0	0	0	0	0	0	1.04	1.03	0	0	0	0	0	0
11/7/2024 16:10	60201	ATGL_T2	44	0	-44	0.16	0	-0.16	-0.1	-0.04	0	0	0	0	0	0
11/7/2024 16:11	15202	SFAR_T1	0	0	0	0	0	0	-1.2	-1.19	1	1	0	1200	1200	0
11/7/2024 16:13	49803	UNIV_T1	1	1	0	4.5	4.4	-0.1	0	0	0	0	0	0	0	0
11/7/2024 16:13	49804	UNIV_T1	1	2	1	0.4	0.35	-0.05	0.52	0.56	0	0	0	0	0	0
11/7/2024 16:13	40801	EXCH_T2	2	2	0	0.2	0.25	0.05	-0.48	-0.49	1	1	0	1200	1200	0
11/7/2024 16:17	24801	VALM_T1	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
11/7/2024 16:24	45302	WBER_T2	0	0	0	0	0	0	0.75	0.69	0	0	0	0	0	0
11/7/2024 16:37	46602	LACR_T1	1	2	1	0.2	0.2	0	-1.03	-1.04	0	0	0	0	0	0
11/7/2024 16:43	45702	LIND_T2	1	1	0	1.1	1.3	0.2	-1.8	-1.79	0	0	0	0	0	0
11/7/2024 17:12	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/7/2024 17:12	54506	ENOL_T2	0	0	0	0	0	0	0.66	0.55	0	1	1	0	600	600
11/7/2024 17:12	54502	ENOL_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
11/7/2024 17:51	43801	SWIL_T1	83	113	30	0.33	0.34	0.01	0	0	0	0	0	0	0	0
11/7/2024 17:51	43802	SWIL_T1	3	25	22	0.13	0.12	-0.01	-0.1	-0.12	1	1	0	600	600	0
11/7/2024 18:46	23201	HIRU_T2	0	3	3	0	0.13	0.13	0.14	0.14	0	0	0	0	0	0
11/7/2024 18:46	23202	HIRU_T2	0	2	2	0	0	0	0.1	0.1	0	0	0	0	0	0
11/7/2024 18:48	61701	ELIZ_T1	1	1	0	5.3	5.7	0.4	0.47	0.07	0	0	0	0	0	0
11/7/2024 18:50	17804	GILB_T2	3	10	7	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/7/2024 18:50	17805	GILB_T2	0	0	0	0	0	0	-0.2	-0.23	0	0	0	0	0	0
11/7/2024 18:50	17002	RIRO_T2	14	39	25	0.12	0.14	0.02	0.34	0.39	0	0	0	0	0	0
11/7/2024 18:51	26703	HEML_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	600	600	0
11/7/2024 18:52	51004	NHAR_T1	2	2	0	6.2	6	-0.2	-0.16	-0.14	0	0	0	0	0	0
11/7/2024 18:52	51002	NHAR_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
11/7/2024 18:52	17804	GILB_T2	3	10	7	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/7/2024 18:52	17805	GILB_T2	0	0	0	0	0	0	-0.23	0.09	0	0	0	0	0	0
11/7/2024 18:52	15203	SFAR_T2	0	0	0	0	0	0	-1.29	-1.28	0	0	0	0	0	0
11/7/2024 18:53	43402	BENT_T1	0	0	0	0	0	0	-0.97	-0.94	1	1	0	900	900	0
11/7/2024 18:53	15602	NSTR_T2	0	15	15	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 18:53	66902	SHIL_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 18:53	20401	ASHF_T2	2	2	0	0.45	0.5	0.05	-0.35	-0.38	0	0	0	0	0	0
11/7/2024 18:53	66901	SHIL_T2	182	226	44	0.21	0.22	0.01	0	0	0	0	0	0	0	0
11/7/2024 18:53	15603	NSTR_T2	8	19	11	0.15	0.19	0.04	-0.66	-0.63	0	0	0	0	0	0
11/7/2024 18:53	15601	NSTR_T2	3	4	1	0.67	0.78	0.11	0	0	0	0	0	0	0	0
11/7/2024 18:53	66903	SHIL_T2	0	0	0	0	0	0	-0.7	-0.74	0	0	0	0	0	0
11/7/2024 18:54	54601	SUMM_T2	2	4	2	0.2	0.2	0	-2.95	-2.98	2	2	0	2100	2100	0
11/7/2024 18:54	17805	GILB_T2	0	0	0	0	0	0	-0.23	0.09	0	0	0	0	0	0
11/7/2024 18:54	67502	WEWI_T2	0	39	39	0	0.14	0.14	-0.44	-0.43	0	0	0	0	0	0
11/7/2024 18:54	13905	SEID_T1	0	0	0	0	0	0	0.26	0.3	0	0	0	0	0	0
11/7/2024 18:54	40303	TAMA_T3	0	0	0	0	0	0	1.91	1.82	0	0	0	0	0	0
11/7/2024 18:54	17804	GILB_T2	3	10	7	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/7/2024 18:54	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 18:54	67503	WEWI_T2	1	1	0	7.8	7.8	0	0	0	0	0	0	0	0	0
11/7/2024 18:55	46004	BERW_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 18:55	25404	LAHA_T2	1	7	6	0.1	0.1	0	0	0	0	0	0	0	0	0
11/7/2024 18:55	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/7/2024 18:55	46003	BERW_T2	4	33	29	0.13	0.13	0	0	0	0	0	0	0	0	0
11/7/2024 18:55	46002	BERW_T2	3	16	13	0.13	0.16	0.03	-1.23	-1.23	1	1	0	900	900	0
11/7/2024 18:55	54502	ENOL_T2	0	0	0	0	0	0	-1.35	-1.33	0	0	0	0	0	0
11/7/2024 18:55	51604	DUKE_T2	0	0	0	0	0	0	-1.21	-1.32	0	0	0	0	0	0
11/7/2024 18:55	25402	LAHA_T2	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
11/7/2024 18:56	48901	FOSP_T2	3	5	2	0.27	0.28	0.01	0.48	0.44	0	0	0	0	0	0
11/7/2024 18:56	67002	STHI_T2	476	456	-20	0.19	0.2	0.01	1.34	1.22	0	0	0	0	0	0
11/7/2024 18:56	48902	FOSP_T2	8	13	5	0.18	0.22	0.04	0	0	0	0	0	0	0	0
11/7/2024 18:56	66902	SHIL_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 18:56	67001	STHI_T2	798	786	-12	0.36	0.38	0.02	0	0	0	0	0	0	0	0
11/7/2024 18:56	66901	SHIL_T2	182	226	44	0.21	0.22	0.01	-1.68	-1.72	1	1	0	1200	1200	0
11/7/2024 18:56	45301	WBER_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 18:56	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.48	-0.49	0	0	0	0	0	0
11/7/2024 18:56	15703	TANN_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
11/7/2024 18:56	45302	WBER_T2	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
11/7/2024 18:56	45303	WBER_T2	4	8	4	2.55	1.36	-1.19	0	0	0	0	0	0	0	0
11/7/2024 18:57	10903	COOP_T2	0	0	0	0	0	0	-0.4	-0.41	1	1	0	600	600	0
11/7/2024 18:57	23203	HIRU_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
11/7/2024 18:57	13303	ORVI_T1	0	0	0	0	0	0	0.9	0.92	0	0	0	0	0	0
11/7/2024 18:57	67503	WEWI_T2	1	1	0	7.8	7.8	0	-0.5	-0.46	0	0	0	0	0	0
11/7/2024 18:57	14401	SSLA_T1	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
11/7/2024 18:57	57403	SPAN_T1	14	22	8	0.17	0.21	0.04	0	0	0	0	0	0	0	0
11/7/2024 18:57	23201	HIRU_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
11/7/2024 18:57	14801	TREI_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
11/7/2024 18:57	57401	SPAN_T1	3	21	18	0.73	0.22	-0.51	-0.3	-0.26	0	0	0	0	0	0
11/7/2024 18:57	23202	HIRU_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 18:57	10805	CHHI_T2	1	1	0	8.4	8.1	-0.3	-1.13	-1.17	1	1	0	600	600	0
11/7/2024 18:57	67502	WEWI_T2	0	39	39	0	0.14	0.14	0	0	0	0	0	0	0	0
11/7/2024 18:57	14402	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 18:57	46001	BERW_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
11/7/2024 18:57	67605	WARW_T1	24	39	15	0.48	0.53	0.05	-1.14	-1.16	0	0	0	0	0	0
11/7/2024 18:57	40301	TAMA_T3	1	1	0	0	0	0	-0.04	-0.09	3	3	0	2700	2700	0
11/7/2024 18:58	67002	STHI_T2	476	456	-20	0.19	0.2	0.01	0	0	0	0	0	0	0	0
11/7/2024 18:58	67001	STHI_T2	798	786	-12	0.36	0.38	0.02	0.1	0.07	0	0	0	0	0	0
11/7/2024 18:58	12001	HATF_T1	0	0	0	0	0	0	0.78	0.76	1	1	0	600	600	0
11/7/2024 18:58	14802	TREI_T2	0	0	0	0	0	0	0.66	0.64	0	0	0	0	0	0
11/7/2024 18:58	23201	HIRU_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
11/7/2024 18:58	54601	SUMM_T2	2	4	2	0.2	0.2	0	-2.95	-2.98	2	2	0	2100	2100	0
11/7/2024 18:58	23203	HIRU_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
11/7/2024 18:58	23202	HIRU_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 18:59	57401	SPAN_T1	3	21	18	0.73	0.22	-0.51	-0.3	-0.26	0	0	0	0	0	0
11/7/2024 18:59	66902	SHIL_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 18:59	54601	SUMM_T2	2	4	2	0.2	0.2	0	-2.95	-2.98	2	2	0	2100	2100	0
11/7/2024 18:59	48902	FOSP_T2	8	13	5	0.18	0.22	0.04	0	0	0	0	0	0	0	0
11/7/2024 18:59	23201	HIRU_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
11/7/2024 18:59	67002	STHI_T2	476	456	-20	0.19	0.2	0.01	1.34	1.22	0	0	0	0	0	0
11/7/2024 18:59	43801	SWIL_T1	90	86	-4	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
11/7/2024 18:59	23202	HIRU_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 18:59	17805	GILB_T2	0	0	0	0	0	0	-0.23	0.09	0	0	0	0	0	0
11/7/2024 18:59	43302	WATS_T2	4	4	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
11/7/2024 18:59	66901	SHIL_T2	182	226	44	0.21	0.22	0.01	-1.68	-1.72	1	1	0	1200	1200	0
11/7/2024 18:59	15202	SFAR_T1	0	0	0	0	0	0	-0.34	-0.39	1	1	0	1200	1200	0
11/7/2024 18:59	66504	SMAN_T2	0	0	0	0	0	0	-0.88	-0.76	0	0	0	0	0	0
11/7/2024 18:59	43802	SWIL_T1	13	13	0	0.12	0.11	-0.01	-0.12	-0.13	1	1	0	600	600	0
11/7/2024 18:59	59302	MCAL_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/7/2024 18:59	44802	EDAN_T2	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
11/7/2024 18:59	23203	HIRU_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
11/7/2024 18:59	15203	SFAR_T2	0	0	0	0	0	0	-2.58	-2.56	0	0	0	0	0	0
11/7/2024 18:59	66503	MOJO_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
11/7/2024 18:59	43301	WATS_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
11/7/2024 18:59	57403	SPAN_T1	14	22	8	0.17	0.21	0.04	0	0	0	0	0	0	0	0
11/7/2024 18:59	14203	EALL_T1	0	0	0	0	0	0	-0.4	-0.41	1	1	0	1200	1200	0
11/7/2024 18:59	17804	GILB_T2	3	10	7	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/7/2024 18:59	45702	LIND_T2	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
11/7/2024 18:59	48901	FOSP_T2	3	5	2	0.27	0.28	0.01	0.24	0.22	0	0	0	0	0	0
11/7/2024 18:59	46602	LACR_T1	1	1	0	0.2	0.2	0	-1.09	-1.02	0	0	0	0	0	0
11/7/2024 18:59	66505	SMAN_T2	3	3	0	0.3	0.47	0.17	0	0	0	0	0	0	0	0
11/7/2024 18:59	47401	PENS_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
11/7/2024 18:59	59301	MCAL_T1	5	10	5	0.24	0.4	0.16	-1.45	-1.47	0	0	0	0	0	0
11/7/2024 18:59	15204	SFAR_T2	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
11/7/2024 18:59	67001	STHI_T2	798	786	-12	0.36	0.38	0.02	0	0	0	0	0	0	0	0
11/7/2024 18:59	45701	LIND_T2	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
11/7/2024 19:00	42701	AUGU_T1	1	1	0	1.2	1.1	-0.1	0	0	2	2	0	1800	1800	0
11/7/2024 19:00	67001	STHI_T2	786	4	-782	0.38	0.18	-0.2	0	0	0	0	0	0	0	0
11/7/2024 19:00	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:00	54505	ENOL_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
11/7/2024 19:00	20403	ASHF_T2	0	1	1	0	0	0	0.04	0.08	0	0	0	0	0	0
11/7/2024 19:00	63501	HEID_TBK1-2	1	2	1	1.4	0.75	-0.65	0.42	0.43	0	0	0	0	0	0
11/7/2024 19:00	61506	EPET_T2	0	0	0	0	0	0	-1.04	-1.01	1	1	0	900	900	0
11/7/2024 19:00	67002	STHI_T2	456	0	-456	0.2	0	-0.2	0.67	0.61	0	0	0	0	0	0
11/7/2024 19:00	24201	PROV_T3	1	1	0	7.4	6.8	-0.6	-0.15	-0.11	0	0	0	0	0	0
11/7/2024 19:00	60801	BUCK_T1	57	63	6	0.36	0.53	0.17	-0.21	-0.2	0	0	0	0	0	0
11/7/2024 19:00	60803	BUCK_T1	19	21	2	0.43	0.65	0.22	0	0	0	0	0	0	0	0
11/7/2024 19:00	44802	EDAN_T2	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
11/7/2024 19:00	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/7/2024 19:00	11202	ELHE_T2	0	0	0	0	0	0	0.5	0.52	1	1	0	1200	1200	0
11/7/2024 19:00	63804	HEMP_T1	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
11/7/2024 19:00	54501	ENOL_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
11/7/2024 19:00	24204	PROV_T3	1	2	1	5.6	2.8	-2.8	0	0	0	0	0	0	0	0
11/7/2024 19:00	47203	FAXO_T2	1	1	0	0.4	0	-0.4	-0.4	-0.4	0	0	0	0	0	0
11/7/2024 19:00	63803	HEMP_T1	0	0	0	0	0	0	0.48	0.54	0	0	0	0	0	0
11/7/2024 19:00	20401	ASHF_T2	2	3	1	0.45	0.53	0.08	0	0	0	0	0	0	0	0
11/7/2024 19:01	67605	WARW_T1	39	21	-18	0.53	0.49	-0.04	-1.14	-1.16	0	0	0	0	0	0
11/7/2024 19:01	48902	FOSP_T2	12	12	0	0.23	0.2	-0.03	-0.03	-0.04	0	0	0	0	0	0
11/7/2024 19:01	66503	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 19:01	67603	WARW_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
11/7/2024 19:01	67001	STHI_T2	786	4	-782	0.38	0.18	-0.2	0.1	0.07	0	0	0	0	0	0
11/7/2024 19:01	58402	MORO_T1	1	0	-1	0.1	0	-0.1	0.39	0.42	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/7/2024 19:01	67002	STHI_T2	456	0	-456	0.2	0	-0.2	0.67	0.61	0	0	0	0	0	0
11/7/2024 19:01	14802	TREI_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
11/7/2024 19:01	65502	MOJO_T2	0	87	87	0	0.11	0.11	-0.94	-0.84	0	0	0	0	0	0
11/7/2024 19:01	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/7/2024 19:01	57505	LAWN_T3	6	7	1	0.42	0.33	-0.09	0.52	0.52	0	0	0	0	0	0
11/7/2024 19:01	40801	EXCH_T2	0	0	0	0	0	0	0.84	0.78	0	0	0	0	0	0
11/7/2024 19:01	14801	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 19:01	53501	EVIL_T2	3	3	0	0.6	0.67	0.07	-0.95	-0.95	1	1	0	600	600	0
11/7/2024 19:01	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:01	57403	SPAN_T1	21	12	-9	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
11/7/2024 19:01	54505	ENOL_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
11/7/2024 19:01	21206	ECAR_T2	1	1	0	7.2	7.7	0.5	0.13	0.17	0	0	0	0	0	0
11/7/2024 19:01	12002	HATF_T1	0	0	0	0	0	0	0.02	-0.02	1	1	0	1200	1200	0
11/7/2024 19:01	48901	FOSP_T2	4	5	1	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
11/7/2024 19:01	57401	SPAN_T1	21	2	-19	0.22	0.8	0.58	-0.3	-0.26	0	0	0	0	0	0
11/7/2024 19:01	54504	ENOL_T2	0	0	0	0	0	0	-1.09	-1.06	1	1	0	600	600	0
11/7/2024 19:01	42701	AUGU_T1	1	1	0	1.2	1.1	-0.1	0	0	2	2	0	1800	1800	0
11/7/2024 19:02	17805	GILB_T2	0	0	0	0	0	0	-0.23	0.09	0	0	0	0	0	0
11/7/2024 19:02	16504	STRO_T1	0	0	0	0	0	0	0.61	0.57	0	0	0	0	0	0
11/7/2024 19:02	44802	EDAN_T2	0	0	0	0	0	0	-1.87	-1.87	0	0	0	0	0	0
11/7/2024 19:02	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.48	-0.49	0	0	0	0	0	0
11/7/2024 19:02	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:02	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:02	65202	PRIN_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
11/7/2024 19:02	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:02	63306	GREE_T1	0	0	0	0	0	0	-4.26	-4.47	3	3	0	2700	2700	0
11/7/2024 19:02	43802	SWIL_T1	12	31	19	0.11	0.14	0.03	-0.12	-0.13	1	1	0	600	600	0
11/7/2024 19:02	63305	GREE_T1	9	8	-1	0.26	0.18	-0.08	-1.19	-1.3	0	0	0	0	0	0
11/7/2024 19:02	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/7/2024 19:02	60201	ATGL_T2	117	290	173	0.3	0.36	0.06	-0.1	-0.29	0	0	0	0	0	0
11/7/2024 19:02	57201	ROSS_T1	8	1	-7	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
11/7/2024 19:02	51602	DUKE_T2	0	0	0	0	0	0	-0.71	-0.57	0	0	0	0	0	0
11/7/2024 19:02	66505	SMAN_T2	3	3	0	0.23	0.83	0.6	0	0	0	0	0	0	0	0
11/7/2024 19:02	10101	ALLE_T3	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
11/7/2024 19:02	66504	SMAN_T2	0	0	0	0	0	0	-0.44	-0.38	0	0	0	0	0	0
11/7/2024 19:02	40701	FFLD_T1	50	67	17	0.42	0.46	0.04	0	0	0	0	0	0	0	0
11/7/2024 19:02	53501	EVIL_T2	3	3	0	0.6	0.67	0.07	-0.95	-0.95	1	1	0	600	600	0
11/7/2024 19:02	46002	BERW_T2	15	3	-12	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
11/7/2024 19:02	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:02	57403	SPAN_T1	21	12	-9	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
11/7/2024 19:02	57401	SPAN_T1	21	2	-19	0.22	0.8	0.58	-0.3	-0.26	0	0	0	0	0	0
11/7/2024 19:02	43504	WWIL_T1	15	9	-6	0.32	0.3	-0.02	0.57	0.55	0	0	0	0	0	0
11/7/2024 19:02	44502	HAMI_T2	1	1	0	3.8	3.6	-0.2	0	0	0	0	0	0	0	0
11/7/2024 19:02	65205	PRIN_T1	1	1	0	1.3	1.8	0.5	0	0	0	0	0	0	0	0
11/7/2024 19:02	15203	SPAR_T2	0	0	0	0	0	0	-1.29	-1.28	0	0	0	0	0	0
11/7/2024 19:02	55002	NEWP_T1	6	6	0	1.08	0.6	-0.48	-0.29	-0.28	0	0	0	0	0	0
11/7/2024 19:02	15703	TANN_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
11/7/2024 19:02	43506	WWIL_T1	6	3	-3	0.55	0.83	0.28	0	0	0	0	0	0	0	0
11/7/2024 19:02	46004	BERW_T2	2	0	-2	0.1	0	-0.1	-0.67	-0.56	0	0	0	0	0	0
11/7/2024 19:02	63501	HEID_TBK1-2	1	2	1	1.4	0.75	-0.65	0.83	0.87	0	0	0	0	0	0
11/7/2024 19:02	57203	ROSS_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
11/7/2024 19:02	44505	HAMI_T2	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
11/7/2024 19:02	40703	FFLD_T1	4	4	0	0.48	0.58	0.1	0	0	0	0	0	0	0	0
11/7/2024 19:02	43505	WWIL_T1	1	1	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
11/7/2024 19:02	40702	FFLD_T1	113	135	22	0.32	0.36	0.04	0	0	0	0	0	0	0	0
11/7/2024 19:02	46003	BERW_T2	33	4	-29	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
11/7/2024 19:02	48902	FOSP_T2	12	12	0	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
11/7/2024 19:02	43801	SWIL_T1	81	103	22	0.32	0.32	0	0	0	0	0	0	0	0	0
11/7/2024 19:02	63304	GREE_T1	223	0	-223	0.14	0	-0.14	0	0	0	0	0	0	0	0
11/7/2024 19:02	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:02	43302	WATS_T2	4	3	-1	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
11/7/2024 19:02	17804	GILB_T2	10	20	10	0.13	0.16	0.03	0	0	0	0	0	0	0	0
11/7/2024 19:02	51604	DUKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 19:02	48901	FOSP_T2	4	5	1	0.3	0.26	-0.04	0.24	0.22	0	0	0	0	0	0
11/7/2024 19:03	57403	SPAN_T1	21	12	-9	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
11/7/2024 19:03	10801	CHHI_T1	0	0	0	0	0	0	-1.63	-1.62	2	2	0	1500	1500	0
11/7/2024 19:03	24202	PROV_T4	44	54	10	0.26	0.22	-0.04	-0.57	-0.64	1	1	0	1200	1200	0
11/7/2024 19:03	66901	SHIL_T2	226	0	-226	0.22	0	-0.22	0	0	0	0	0	0	0	0
11/7/2024 19:03	43402	BENT_T1	0	0	0	0	0	0	-0.97	-0.94	1	1	0	900	900	0
11/7/2024 19:03	66903	SHIL_T2	0	0	0	0	0	0	-0.7	-0.74	0	0	0	0	0	0
11/7/2024 19:03	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.48	-0.49	0	0	0	0	0	0
11/7/2024 19:03	42701	AUGU_T1	1	1	0	1.2	1.1	-0.1	0	0	2	2	0	1800	1800	0
11/7/2024 19:03	15703	TANN_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
11/7/2024 19:03	57401	SPAN_T1	21	2	-19	0.22	0.8	0.58	-0.3	-0.26	0	0	0	0	0	0
11/7/2024 19:03	48901	FOSP_T2	4	5	1	0.3	0.26	-0.04	0.24	0.22	0	0	0	0	0	0
11/7/2024 19:03	48902	FOSP_T2	12	12	0	0.23	0.2	-0.03	-0.03	-0.04	0	0	0	0	0	0
11/7/2024 19:03	67001	STHI_T2	786	4	-782	0.38	0.18	-0.2	0	0	0	0	0	0	0	0
11/7/2024 19:03	24206	PROV_T4	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
11/7/2024 19:03	66902	SHIL_T2	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/7/2024 19:03	67002	STHI_T2	456	0	-456	0.2	0	-0.2	0.67	0.61	0	0	0	0	0	0
11/7/2024 19:03	45501	DERR_T2	0	0	0	0	0	0	0.53	0.54	2	2	0	1800	1800	0
11/7/2024 19:04	57401	SPAN_T1	21	2	-19	0.22	0.8	0.58	-0.3	-0.26	0	0	0	0	0	0
11/7/2024 19:04	54602	SUMM_T2	0	4	4	0	0.13	0.13	0	0	1	1	0	600	600	0
11/7/2024 19:04	48902	FOSP_T2	12	12	0	0.23	0.2	-0.03	-0.03	-0.04	0	0	0	0	0	0
11/7/2024 19:04	57205	ROSS_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
11/7/2024 19:04	44502	HAMI_T2	1	1	0	3.8	3.6	-0.2	0	0	0	0	0	0	0	0
11/7/2024 19:04	54601	SUMM_T2	2	12	10	0.15	0.41	0.26	0	0	0	0	0	0	0	0
11/7/2024 19:04	64902	MILL_T2	0	0	0	0	0	0	-0.69	-0.7	1	1	0	900	900	0
11/7/2024 19:04	44701	MUNC_T2	228	275	47	0.32	0.35	0.03	0	0	0	0	0	0	0	0
11/7/2024 19:04	44505	HAMI_T2	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
11/7/2024 19:04	51604	DUKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 19:04	66902	SHIL_T2	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/7/2024 19:04	12001	HATF_T1	0	0	0	0	0	0	0.78	0.76	1	1	0	600	600	0
11/7/2024 19:04	55101	WERT_T1	0	0	0	0	0	0	-1.09	-1.07	1	1	0	600	600	0
11/7/2024 19:04	67605	WARW_T1	39	21	-18	0.53	0.49	-0.04	-1.14	-1.16	0	0	0	0	0	0
11/7/2024 19:04	44702	MUNC_T2	5	28	23	0.32	0.2	0.08	0	0	0	0	0	0	0	0
11/7/2024 19:04	57403	SPAN_T1	21	12	-9	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
11/7/2024 19:04	44703	MUNC_T2	2	2	0	0.95	1.5	0.55	0.64	0.61	0	0	0	0	0	0
11/7/2024 19:04	66901	SHIL_T2	226	0	-226	0.22	0	-0.22	-1.68	-1.72	1	1	0	1200	1200	0
11/7/2024 19:04	57201	ROSS_T1	8	1	-7	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
11/7/2024 19:04	48901	FOSP_T2	4	5	1	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
11/7/2024 19:04	51602	DUKE_T2	0	0	0	0	0	0	-0.24	-0.19	0	0	0	0	0	0
11/7/2024 19:05	63305	GREE_T1	9	8	-1	0.26	0.18	-0.08	-1.19	-1.3	0	0	0	0	0	0
11/7/2024 19:05	67605	WARW_T1	39	21	-18	0.53	0.49	-0.04	0	0	0	0	0	0	0	0
11/7/2024 19:05	59101	WALK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:05	53501	EVIL_T2	3	3	0	0.6	0.67	0.07	-0.95	-0.95	1	1	0	600	600	0
11/7/2024 19:05	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:05	54505	ENOL_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
11/7/2024 19:05	54602	SUMM_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
11/7/2024 19:05	63803	HEMP_T1	0	0	0	0	0	0	0.48	0.54	0	0	0	0	0	0
11/7/2024 19:05	46801	HEPB_T2	24	32	8	0.32	0.29	-0.03	0.51	0.5	0	0	0	0	0	0
11/7/2024 19:05	46002	BERW_T2	15	3	-12	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
11/7/2024 19:05	17804	GILB_T2	10	20	10	0.13	0.16	0.03	-0.61	-0.6	0	0	0	0	0	0
11/7/2024 19:05	23901	EFMO_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
11/7/2024 19:05	67502	WEWI_T2	18	133	115	0.13	0.21	0.08	-0.44	-0.43	0	0	0	0	0	0
11/7/2024 19:05	67503	WEWI_T2	1	1	0	7.7	7.8	0.1	0	0	0	0	0	0	0	0
11/7/2024 19:05	63804	HEMP_T1	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
11/7/2024 19:05	54502	ENOL_T2	0	1	1	0	0.2	0.2	-1.35	-1.33	0	0	0	0	0	0
11/7/2024 19:05	46004	BERW_T2	2	0	-2	0.1	0	-0.1	-0.67	-0.56	0	0	0	0	0	0
11/7/2024 19:05	46803	HEPB_T2	10	12	2	0.19	0.21	0.02	0	0	0	0	0	0	0	0
11/7/2024 19:05	60301	TWVA_T2	0	0	0	0	0	0	-4.18	-4.16	4	4	0	3600	3600	0
11/7/2024 19:05	45501	DERR_T2	0	0	0	0	0	0	0.53	0.54	2	2	0	1800	1800	0
11/7/2024 19:05	58003	WCAR_T1	1	1	0	0.9	1.5	0.6	0	0	2	2	0	1200	1200	0
11/7/2024 19:05	46003	BERW_T2	33	4	-29	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
11/7/2024 19:05	48901	FOSP_T2	4	5	1	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
11/7/2024 19:05	58001	WCAR_T1	4	4	0	0.78	1.4	0.62	0	0	0	0	0	0	0	0
11/7/2024 19:05	65802	RTWN_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
11/7/2024 19:05	54601	SUMM_T2	2	12	10	0.15	0.41	0.26	-2.95	-2.98	2	2	0	2100	2100	0
11/7/2024 19:05	65803	RTWN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/7/2024 19:05	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:05	17805	GILB_T2	0	0	0	0	0	0	-0.23	0.09	0	0	0	0	0	0
11/7/2024 19:05	48902	FOSP_T2	12	12	0	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
11/7/2024 19:05	63304	GREE_T1	223	0	-223	0.14	0	-0.14	0	0	0	0	0	0	0	0
11/7/2024 19:06	59101	WALK_T2	0	1	1	0	0	0	1.44	1.3	0	0	0	0	0	0
11/7/2024 19:06	40701	FFLD_T1	50	67	17	0.42	0.46	0.04	0	0	0	0	0	0	0	0
11/7/2024 19:06	46004	BERW_T2	2	0	-2	0.1	0	-0.1	-0.67	-0.56	0	0	0	0	0	0
11/7/2024 19:06	10801	CHHI_T1	0	0	0	0	0	0	-1.62	-1.63	2	2	0	1500	1500	0
11/7/2024 19:06	54204	PENN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 19:06	46003	BERW_T2	33	4	-29	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
11/7/2024 19:06	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:06	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
11/7/2024 19:06	40703	FFLD_T1	4	4	0	0.48	0.58	0.1	0	0	0	0	0	0	0	0
11/7/2024 19:06	63803	HEMP_T1	0	0	0	0	0	0	1.08	0.94	0	0	0	0	0	0
11/7/2024 19:06	46002	BERW_T2	15	3	-12	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
11/7/2024 19:06	44301	BEAV_T2	0	0	0	0	0	0	-0.27	-0.35	1	1	0	600	600	0
11/7/2024 19:06	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/7/2024 19:06	63804	HEMP_T1	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
11/7/2024 19:06	40702	FFLD_T1	113	135	22	0.32	0.36	0.04	-0.8	-0.86	1	1	0	1200	1200	0
11/7/2024 19:06	55002	NEWP_T1	6	6	0	1.08	0.6	-0.48	-0.28	-0.3	0	0	0	0	0	0
11/7/2024 19:06	14801	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 19:06	51604	DUKE_T2	0	1	1	0	0.1	0.1	-1.32	-1.3	0	0	0	0	0	0
11/7/2024 19:06	14802	TREI_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
11/7/2024 19:07	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:07	66505	SMAN_T2	3	3	0	0.23	0.83	0.6	0	-0.01	1	1	0	900	900	0
11/7/2024 19:07	57403	SPAN_T1	21	12	-9	0.21	0.17	-0.04	-0.02	0.03	0	0	0	0	0	0
11/7/2024 19:07	59302	MCAL_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
11/7/2024 19:07	15602	NSTR_T2	7	37	30	0.1	0.11	0.01	0.04	0	0	0	0	0	0	0
11/7/2024 19:07	63306	GREE_T1	0	0	0	0	0	0	-1.49	-1.49	1	1	0	900	900	0
11/7/2024 19:07	46803	HEPB_T2	10	12	2	0.19	0.21	0.02	0	0	0	0	0	0	0	0
11/7/2024 19:07	15601	NSTR_T2	4	4	0	0.78	0.7	-0.08	0	0	0	0	0	0	0	0
11/7/2024 19:07	65502	MOJO_T2	0	87	87	0	0.11	0.11	0	0	0	0	0	0	0	0
11/7/2024 19:07	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/7/2024 19:07	65503	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/7/2024 19:07	63304	GREE_T1	223	0	-223	0.14	0	-0.14	-0.39	-0.41	0	0	0	0	0	0
11/7/2024 19:07	57401	SPAN_T1	21	2	-19	0.22	0.8	0.58	-0.26	-0.26	0	0	0	0	0	0
11/7/2024 19:07	59301	MCAL_T1	10	5	-5	0.4	0.64	0.24	-1.47	-1.48	0	0	0	0	0	0
11/7/2024 19:07	63501	HEID_TBK1-2	1	2	1	1.4	0.75	-0.65	0.87	0.86	0	0	0	0	0	0
11/7/2024 19:07	13303	ORVI_T1	0	0	0	0	0	0	0.92	0.88	0	0	0	0	0	0
11/7/2024 19:07	46001	BERW_T1	0	0	0	0	0	0	1.1	1.13	0	0	0	0	0	0
11/7/2024 19:07	63305	GREE_T1	9	8	-1	0.26	0.18	-0.08	0	0	0	0	0	0	0	0
11/7/2024 19:07	67001	STHI_T2	786	4	-782	0.38	0.18	-0.2	0.07	0.07	0	0	0	0	0	0
11/7/2024 19:07	67002	STHI_T2	456	0	-456	0.2	0	-0.2	1.22	1.2	0	0	0	0	0	0
11/7/2024 19:07	46801	HEPB_T2	24	32	8	0.32	0.29	-0.03	0.5	0.5	0	0	0	0	0	0
11/7/2024 19:07	44801	EDAN_T2	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
11/7/2024 19:07	55002	NEWP_T1	6	6	0	1.08	0.6	-0.48	-0.28	-0.3	0	0	0	0	0	0
11/7/2024 19:07	15603	NSTR_T2	14	18	4	0.19	0.21	0.02	0	0	0	0	0	0	0	0
11/7/2024 19:07	14203	EALL_T1	0	0	0	0	0	0	-0.41	0.82	1	0	-1	1200	0	-1200
11/7/2024 19:08	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:08	67401	WAKE_T2	17	71	54	0.15	0.19	0.04	-1.12	-1.11	0	0	0	0	0	0
11/7/2024 19:08	44802	EDAN_T2	0	0	0	0	0	0	-0.94	-0.97	0	0	0	0	0	0
11/7/2024 19:08	43302	WATS_T2	4	3	-1	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
11/7/2024 19:08	46801	HEPB_T2	24	32	8	0.32	0.29	-0.03	0	0	0	0	0	0	0	0
11/7/2024 19:08	14402	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:08	45802	HEGI_T2	9	36	27	0.34	0.62	0.28	1.31	1.41	0	0	0	0	0	0
11/7/2024 19:08	46803	HEPB_T2	10	12	2	0.19	0.21	0.02	0.44	0.43	0	0	0	0	0	0
11/7/2024 19:08	55102	WERT_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
11/7/2024 19:08	42701	AUGU_T1	1	1	0	1.2	1.1	-0.1	0	0	2	2	0	1800	1800	0
11/7/2024 19:08	43304	WATS_T2	0	0	0	0	0	0	-1.11	-1.19	0	0	0	0	0	0
11/7/2024 19:08	66505	SMAN_T2	3	3	0	0.23	0.83	0.6	0	0	0	0	0	0	0	0
11/7/2024 19:08	45702	LIND_T2	1	1	0	1.7	1.9	0.2	-0.62	-0.65	0	0	0	0	0	0
11/7/2024 19:08	14403	SSLA_T1	0	0	0	0	0	0	0.55	0.51	0	0	0	0	0	0
11/7/2024 19:08	66502	SMAN_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
11/7/2024 19:09	14802	TREI_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
11/7/2024 19:09	44801	EDAN_T2	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
11/7/2024 19:09	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:09	57401	SPAN_T1	21	2	-19	0.22	0.8	0.58	-0.52	-0.52	0	0	0	0	0	0
11/7/2024 19:09	67401	WAKE_T2	17	71	54	0.15	0.19	0.04	0	0	0	0	0	0	0	0
11/7/2024 19:09	13704	SCHN_T2	3	3	0	0.1	0.1	0	-0.49	-0.48	0	0	0	0	0	0
11/7/2024 19:09	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
11/7/2024 19:09	44802	EDAN_T2	0	0	0	0	0	0	-0.94	-0.97	0	0	0	0	0	0
11/7/2024 19:09	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:09	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:09	14801	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 19:09	57403	SPAN_T1	21	12	-9	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
11/7/2024 19:09	58402	MORO_T1	1	0	-1	0.1	0	-0.1	0.42	0.36	1	1	0	900	900	0
11/7/2024 19:09	45802	HEGI_T2	9	36	27	0.34	0.62	0.28	0	0	0	0	0	0	0	0
11/7/2024 19:09	44502	HAMI_T2	1	1	0	3.8	3.6	-0.2	0	0	0	0	0	0	0	0
11/7/2024 19:10	53501	EVIL_T2	3	3	0	0.6	0.67	0.07	-0.95	-0.97	1	1	0	600	600	0
11/7/2024 19:10	57106	SPHI_T2	3	3	0	1.5	1	-0.5	0	0	0	0	0	0	0	0
11/7/2024 19:10	42701	AUGU_T1	1	1	0	1.2	1.1	-0.1	0	0	2	2	0	1800	1800	0
11/7/2024 19:10	58001	WCAR_T1	4	4	0	0.78	1.4	0.62	0	0	0	0	0	0	0	0
11/7/2024 19:10	51604	DUKE_T2	0	1	1	0	0.1	0.1	-1.32	-1.3	0	0	0	0	0	0
11/7/2024 19:10	67605	WARW_T1	39	21	-18	0.53	0.49	-0.04	-1.16	-1.17	0	0	0	0	0	0
11/7/2024 19:10	57403	SPAN_T1	21	12	-9	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
11/7/2024 19:10	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:10	57401	SPAN_T1	21	2	-19	0.22	0.8	0.58	-0.26	-0.26	0	0	0	0	0	0
11/7/2024 19:10	46803	HEPB_T2	10	12	2	0.19	0.21	0.02	0	0	0	0	0	0	0	0
11/7/2024 19:10	58003	WCAR_T1	1	1	0	0.9	1.5	0.6	0	0	1	1	0	600	600	0
11/7/2024 19:10	57104	SPHI_T2	3	3	0	4.53	2.57	-1.96	0.52	0.47	0	0	0	0	0	0
11/7/2024 19:10	67703	WEIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:10	46801	HEPB_T2	24	32	8	0.32	0.29	-0.03	0.5	0.5	0	0	0	0	0	0
11/7/2024 19:10	48902	FOSP_T2	12	12	0	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
11/7/2024 19:10	13704	SCHN_T2	3	3	0	0.1	0.1	0	-0.49	-0.48	0	0	0	0	0	0
11/7/2024 19:10	48901	FOSP_T2	4	5	1	0.3	0.26	-0.04	0.44	0.46	0	0	0	0	0	0
11/7/2024 19:10	57101	SPHI_T2	6	6	0	1.07	0.63	-0.44	0	0	0	0	0	0	0	0
11/7/2024 19:11	63304	GREE_T1	223	0	-223	0.14	0	-0.14	-0.39	-0.41	0	0	0	0	0	0
11/7/2024 19:11	49804	UNIV_T1	0	0	0	0	0	0	0.43	0.49	0	0	0	0	0	0
11/7/2024 19:11	63305	GREE_T1	9	8	-1	0.26	0.18	-0.08	0	0	0	0	0	0	0	0
11/7/2024 19:11	53501	EVIL_T2	3	3	0	0.6	0.67	0.07	-0.95	-0.97	1	1	0	600	600	0
11/7/2024 19:11	58402	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/7/2024 19:11	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:11	59101	WALK_T2	0	1	1	0	0	0	1.44	1.3	0	0	0	0	0	0
11/7/2024 19:11	49803	UNIV_T1	1	1	0	4.8	4.7	-0.1	0	0	0	0	0	0	0	0
11/7/2024 19:11	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 19:11	43302	WATS_T2	4	3	-1	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
11/7/2024 19:11	58401	MORO_T1	0	0	0	0	0	0	-1.65	-1.58	1	1	0	600	600	0
11/7/2024 19:11	67001	STHI_T2	786	4	-782	0.38	0.18	-0.2	0.07	0.07	0	0	0	0	0	0
11/7/2024 19:12	58401	MORO_T1	0	0	0	0	0	0	-3.3	-3.15	2	2	0	1200	1200	0
11/7/2024 19:12	67401	WAKE_T2	17	71	54	0.15	0.19	0.04	0	0	0	0	0	0	0	0
11/7/2024 19:12	58402	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/7/2024 19:12	63803	HEMP_T1	0	0	0	0	0	0	0.54	0.47	0	0	0	0	0	0
11/7/2024 19:12	67105	SPRI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/7/2024 19:12	63804	HEMP_T1	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
11/7/2024 19:12	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
11/7/2024 19:12	67103	SPRI_T1	0	0	0	0	0	0	-1.22	-1.08	0	0	0	0	0	0
11/7/2024 19:12	67002	STHI_T2	456	0	-456	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/7/2024 19:13	52401	GRPA_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/7/2024 19:13	54601	SUMM_T2	2	12	10	0.15	0.41	0.26	-2.98	-2.98	2	2	0	2100	2100	0
11/7/2024 19:13	52402	GRPA_T2	4	4	0	0.73	0.78	0.05	-0.95	-0.97	0	0	0	0	0	0
11/7/2024 19:13	54602	SUMM_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
11/7/2024 19:13	52403	GRPA_T2	2	2	0	0.65	0.35	-0.3	0	0	0	0	0	0	0	0
11/7/2024 19:13	58401	MORO_T1	0	0	0	0	0	0	-1.65	-1.58	1	1	0	600	600	0
11/7/2024 19:13	52404	GRPA_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
11/7/2024 19:13	64101	REDR_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
11/7/2024 19:13	57401	SPAN_T1	21	2	-19	0.22	0.8	0.58	0	0	0	0	0	0	0	0
11/7/2024 19:13	63501	HEID_TBK1-2	1	2	1	1.4	0.75	-0.65	0.43	0.43	0	0	0	0	0	0
11/7/2024 19:13	55002	NEWP_T1	6	6	0	1.08	0.6	-0.48	0	0	0	0	0	0	0	0
11/7/2024 19:13	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.22	-0.24	0	0	0	0	0	0
11/7/2024 19:13	58402	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/7/2024 19:13	57403	SPAN_T1	21	12	-9	0.21	0.17	-0.04	-0.02	0.03	0	0	0	0	0	0
11/7/2024 19:14	63305	GREE_T1	9	8	-1	0.26	0.18	-0.08	0	0	0	0	0	0	0	0
11/7/2024 19:14	63304	GREE_T1	223	0	-223	0.14	0	-0.14	0	0	0	0	0	0	0	0
11/7/2024 19:14	46002	BERW_T2	15	3	-12	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
11/7/2024 19:14	67805	WLAN_T1	0	0	0	0	0	0	-0.94	-0.98	0	0	0	0	0	0
11/7/2024 19:14	46004	BERW_T2	2	0	-2	0.1	0	-0.1	0.56	-0.68	0	0	0	0	0	0
11/7/2024 19:14	58401	MORO_T1	0	0	0	0	0	0	-1.65	-1.58	1	1	0	600	600	0
11/7/2024 19:14	63302	GREE_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
11/7/2024 19:14	58402	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/7/2024 19:14	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 19:14	67804	WLAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 19:14	46003	BERW_T2	33	4	-29	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
11/7/2024 19:15	44802	EDAN_T2	0	0	0	0	0	0	-0.94	-0.97	0	0	0	0	0	0
11/7/2024 19:15	53501	EVIL_T2	2	4	2	0.55	0.5	-0.05	-0.95	-0.97	1	1	0	600	600	0
11/7/2024 19:16	44702	MUNC_T2	20	25	5	0.15	0.22	0.07	0	0	0	0	0	0	0	0
11/7/2024 19:16	59101	WALK_T2	0	0	0	0	0	0	1.44	1.3	0	0	0	0	0	0
11/7/2024 19:16	44703	MUNC_T2	2	2	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
11/7/2024 19:16	44701	MUNC_T2	208	284	76	0.27	0.35	0.08	0	0	0	0	0	0	0	0
11/7/2024 19:17	64901	MILL_T1	0	11	11	0	0.1	0.1	0	0	0	0	0	0	0	0
11/7/2024 19:17	64904	MILL_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
11/7/2024 19:18	66505	SMAN_T2	3	3	0	0.47	0.83	0.36	0	0	0	0	0	0	0	0
11/7/2024 19:18	58401	MORO_T1	0	0	0	0	0	0	-1.65	-1.58	1	1	0	600	600	0
11/7/2024 19:18	66504	SMAN_T2	0	0	0	0	0	0	0.38	0.42	0	0	0	0	0	0
11/7/2024 19:20	65502	MOJO_T2	0	87	87	0	0.11	0.11	-0.84	-0.9	0	0	0	0	0	0
11/7/2024 19:20	65503	MOJO_T2	0	1	1	0	0.1	0.1	-0.22	-0.23	0	0	0	0	0	0
11/7/2024 19:27	57401	SPAN_T1	2	2	0	0.5	0.8	0.3	-0.26	-0.29	0	0	0	0	0	0
11/7/2024 19:27	57403	SPAN_T1	12	7	-5	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
11/7/2024 19:33	24801	VALM_T1	0	0	0	0	0	0	-0.42	-0.35	0	0	0	0	0	0
11/7/2024 19:39	55002	NEWP_T1	5	6	1	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
11/7/2024 19:39	55001	NEWP_T1	0	1	1	0	0	0	-0.22	-0.21	0	0	0	0	0	0
11/7/2024 19:45	50625	CCTY_T2	5	4	-1	2.56	3.1	0.54	0	0	0	0	0	0	0	0
11/7/2024 19:45	50624	CCTY_T2	2	2	0	5.85	6.1	0.25	0	0	0	0	0	0	0	0
11/7/2024 19:45	50623	CCTY_T2	5	5	0	5.28	5.56	0.28	0	0	0	0	0	0	0	0
11/7/2024 19:45	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 20:43	24101	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/7/2024 20:43	24102	EHAZ_T1	4	2	-2	0.63	0	-0.63	0.75	0.75	0	0	0	0	0	0
11/7/2024 20:43	24105	EHAZ_T1	4	4	0	6.1	5.8	-0.3	0	0	0	0	0	0	0	0
11/7/2024 21:38	65503	MOJO_T2	14	303	289	0.12	0.26	0.14	0	0	0	0	0	0	0	0
11/7/2024 21:38	65502	MOJO_T2	101	335	234	0.11	0.4	0.29	0	0	0	0	0	0	0	0
11/7/2024 23:05	22701	MINO_T1	0	0	0	0	0	0	-1.18	-0.82	1	1	0	600	600	0
11/8/2024 7:20	45702	LIND_T2	1	1	0	0.3	0.7	0.4	-1.79	-1.79	0	0	0	0	0	0
11/8/2024 7:24	66902	SHIL_T2	0	0	0	0	0	0	-1.09	-1.06	0	0	0	0	0	0
11/8/2024 7:28	40504	CRES_T1	0	0	0	0	0	0	-0.66	-0.63	0	0	0	0	0	0
11/8/2024 7:40	14601	SWHI_T1	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
11/8/2024 7:41	55002	NEWP_T1	6	6	0	0.52	0.67	0.15	-0.27	-0.24	0	0	0	0	0	0
11/8/2024 7:42	11903	ETEX_T1	0	0	0	0	0	0	0.33	0.28	0	0	0	0	0	0
11/8/2024 7:45	15603	NSTR_T2	0	0	0	0	0	0	-0.64	0	0	0	0	0	0	0
11/8/2024 7:46	23901	EFMO_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
11/8/2024 7:48	67503	WEWI_T2	1	1	0	8.9	8.8	-0.1	-0.48	0.06	0	0	0	0	0	0
11/8/2024 7:48	67502	WEWI_T2	1	45	44	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
11/8/2024 7:49	64704	LITI_T1	0	0	0	0	0	0	0.03	0.4	1	1	0	600	600	0
11/8/2024 7:50	67501	WEWI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/8/2024 7:50	67504	WEWI_T1	0	0	0	0	0	0	-0.4	0.62	1	0	-1	900	0	-900
11/8/2024 7:50	67505	WEWI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 7:51	67505	WEWI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 7:51	67501	WEWI_T1	0	1	1	0	0.1	0.1	-0.52	-0.46	0	0	0	0	0	0
11/8/2024 7:51	67503	WEWI_T2	1	1	0	8.9	8.8	-0.1	0	0	0	0	0	0	0	0
11/8/2024 7:51	67502	WEWI_T2	1	45	44	0.2	0.16	-0.04	-0.32	-0.29	0	0	0	0	0	0
11/8/2024 7:52	15202	SFAR_T1	0	0	0	0	0	0	-0.82	-0.77	1	1	0	1200	1200	0
11/8/2024 7:53	55102	WERT_T2	0	0	0	0	0	0	-1.01	-0.39	2	1	-1	1200	600	-600
11/8/2024 7:57	58803	COCO_T1	1	1	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
11/8/2024 7:59	54505	ENOL_T2	1	2	1	0.5	0.8	0.3	-1.38	-1.38	1	1	0	600	600	0
11/8/2024 7:59	54504	ENOL_T2	0	0	0	0	0	0	-1.14	-1.12	1	1	0	600	600	0
11/8/2024 7:59	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/8/2024 7:59	54502	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
11/8/2024 8:03	12006	HATF_T1	0	0	0	0	0	0	0.55	0.65	1	1	0	1200	1200	0
11/8/2024 8:04	64802	MONE_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/8/2024 8:04	64801	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/8/2024 8:10	54203	PENN_T1	192	18	-174	0.31	1.57	1.26	0	0	0	0	0	0	0	0
11/8/2024 8:10	54201	PENN_T1	293	20	-273	0.45	0.75	0.3	0	0	0	0	0	0	0	0
11/8/2024 8:10	54205	PENN_T1	79	0	-79	0.23	0	-0.23	0	0	0	0	0	0	0	0
11/8/2024 8:11	54201	PENN_T1	293	20	-273	0.45	0.75	0.3	0	0	0	0	0	0	0	0
11/8/2024 8:11	54205	PENN_T1	79	0	-79	0.23	0	-0.23	0	0	0	0	0	0	0	0
11/8/2024 8:11	54203	PENN_T1	192	18	-174	0.31	1.57	1.26	0.34	1.62	0	0	0	0	0	0
11/8/2024 8:12	49804	UNIV_T1	1	1	0	0.4	0.2	-0.2	0.78	0.8	0	0	0	0	0	0
11/8/2024 8:12	49803	UNIV_T1	1	1	0	4.5	4.7	0.2	0	0	0	0	0	0	0	0
11/8/2024 8:13	54205	PENN_T1	79	0	-79	0.23	0	-0.23	0	0	0	0	0	0	0	0
11/8/2024 8:13	54201	PENN_T1	293	20	-273	0.45	0.75	0.3	0	0	0	0	0	0	0	0
11/8/2024 8:13	54203	PENN_T1	192	18	-174	0.31	1.57	1.26	0.34	1.62	0	0	0	0	0	0
11/8/2024 8:14	14201	EALL_T1	0	0	0	0	0	0	0.46	0.49	0	0	0	0	0	0
11/8/2024 8:18	45702	LIND_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
11/8/2024 8:18	63602	LETO_T1	0	6	6	0	0.1	0.1	-0.48	-0.47	0	0	0	0	0	0
11/8/2024 8:18	45701	LIND_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
11/8/2024 8:18	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/8/2024 8:20	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/8/2024 8:20	10101	ALLE_T3	1	0	-1	3	0	-3	0	0	0	0	0	0	0	0
11/8/2024 8:20	63501	HEID_TBK1-2	33	34	1	0.26	0.25	-0.01	0.94	0.98	0	0	0	0	0	0
11/8/2024 8:20	63602	LETO_T1	0	6	6	0	0.1	0.1	-0.48	-0.47	0	0	0	0	0	0
11/8/2024 8:21	64903	MILL_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
11/8/2024 8:21	63501	HEID_TBK1-2	33	34	1	0.26	0.25	-0.01	0.49	0.72	0	0	0	0	0	0
11/8/2024 8:23	64903	MILL_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
11/8/2024 8:26	45501	DERR_T2	0	0	0	0	0	0	0.43	0.43	2	2	0	1800	1800	0
11/8/2024 8:26	44301	BEAV_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
11/8/2024 8:28	24105	EHAZ_T1	4	4	0	6.1	5.93	-0.17	0	0	0	0	0	0	0	0
11/8/2024 8:28	24101	EHAZ_T1	1	1	0	4.1	3.5	-0.6	0	0	0	0	0	0	0	0
11/8/2024 8:28	45501	DERR_T2	0	0	0	0	0	0	0.43	0.43	2	2	0	1800	1800	0
11/8/2024 8:28	24102	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 8:28	24104	EHAZ_T1	0	0	0	0	0	0	-0.89	-0.88	1	1	0	1200	1200	0
11/8/2024 8:31	25402	LAHA_T2	0	0	0	0	0	0	-0.72	-0.65	0	0	0	0	0	0
11/8/2024 8:32	53501	EVIL_T2	2	2	0	0.55	0.75	0.2	-0.17	-0.15	1	1	0	600	600	0
11/8/2024 8:32	53502	EVIL_T2	1	1	0	2	0.9	-1.1	0	0	0	0	0	0	0	0
11/8/2024 8:33	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/8/2024 8:33	67502	WEWI_T2	15	208	193	0.16	0.26	0.1	-0.24	-0.32	0	0	0	0	0	0
11/8/2024 8:33	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/8/2024 8:33	67503	WEWI_T2	1	1	0	8.8	8.9	0.1	0	0	0	0	0	0	0	0
11/8/2024 8:35	57205	ROSS_T1	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
11/8/2024 8:35	67504	WEWI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/8/2024 8:35	57201	ROSS_T1	0	0	0	0	0	0	-0.63	-0.69	0	0	0	0	0	0
11/8/2024 8:35	67505	WEWI_T1	0	0	0	0	0	0	-0.11	-0.11	1	1	0	900	900	0
11/8/2024 8:36	15203	SFAR_T2	3	8	5	0.33	0.33	0	-1.42	-1.41	0	0	0	0	0	0
11/8/2024 8:36	67502	WEWI_T2	15	208	193	0.16	0.26	0.1	-0.32	-0.31	0	0	0	0	0	0
11/8/2024 8:36	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 8:36	67503	WEWI_T2	1	1	0	8.8	8.9	0.1	0	0	0	0	0	0	0	0
11/8/2024 8:37	67503	WEWI_T2	1	1	0	8.8	8.9	0.1	0	0	0	0	0	0	0	0
11/8/2024 8:37	67502	WEWI_T2	15	208	193	0.16	0.26	0.1	-0.32	-0.31	0	0	0	0	0	0
11/8/2024 8:39	57201	ROSS_T1	0	0	0	0	0	0	-0.69	-0.59	0	0	0	0	0	0
11/8/2024 8:39	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 8:42	11205	ELHE_T1	1	1	0	1.4	0.6	-0.8	0	0	0	0	0	0	0	0
11/8/2024 8:42	11203	ELHE_T1	0	0	0	0	0	0	0.86	0.83	0	0	0	0	0	0
11/8/2024 8:52	52502	PROG_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	900	900	0
11/8/2024 8:54	57201	ROSS_T1	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
11/8/2024 8:59	41801	GOCI_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
11/8/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.47	0.42	0	0	0	0	0	0
11/8/2024 9:00	67502	WEWI_T2	36	13	-23	0.18	0.25	0.07	0	0	0	0	0	0	0	0
11/8/2024 9:00	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 9:00	54502	ENOL_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
11/8/2024 9:00	64902	MILL_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
11/8/2024 9:00	46602	LACR_T1	1	1	0	1	1.5	0.5	-1.17	-1.26	0	0	0	0	0	0
11/8/2024 9:00	10101	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 9:00	54506	ENOL_T2	0	0	0	0	0	0	0.5	0.43	1	1	0	600	600	0
11/8/2024 9:00	64903	MILL_T2	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
11/8/2024 9:00	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
11/8/2024 9:00	67503	WEWI_T2	1	1	0	8.7	8.7	0	0	0.19	0	0	0	0	0	0
11/8/2024 9:00	28102	TWLA_T2	3	2	-1	0.13	0.4	0.27	0.18	0.18	0	0	0	0	0	0
11/8/2024 9:02	64904	MILL_T1	2	1	-1	0.25	0.3	0.05	0.34	0.44	0	0	0	0	0	0
11/8/2024 9:02	64901	MILL_T1	57	15	-42	0.16	0.11	-0.05	0	0	0	0	0	0	0	0
11/8/2024 9:04	52502	PROG_T2	0	0	0	0	0	0	-1.54	-1.52	2	2	0	1800	1800	0
11/8/2024 9:07	67002	STHI_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/8/2024 9:07	57203	ROSS_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
11/8/2024 9:07	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/8/2024 9:07	13303	ORVI_T1	1	3	2	0.1	0.1	0	-0.46	-0.4	0	0	0	0	0	0
11/8/2024 9:07	67401	WAKE_T2	35	30	-5	0.15	0.12	-0.03	-0.85	-0.86	0	0	0	0	0	0
11/8/2024 9:07	67402	WAKE_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/8/2024 9:08	24202	PROV_T4	1	0	-1	2.4	0	-2.4	-0.77	-0.87	1	1	0	1200	1200	0
11/8/2024 9:08	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 9:08	57203	ROSS_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
11/8/2024 9:09	67002	STHI_T2	1	2	1	0.4	0.3	-0.1	0.57	0.59	0	0	0	0	0	0
11/8/2024 9:09	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/8/2024 9:10	57201	ROSS_T1	0	0	0	0	0	0	-1.17	-0.82	0	0	0	0	0	0
11/8/2024 9:10	15203	SFAR_T2	8	6	-2	0.33	0.33	0	-1.41	-1.38	0	0	0	0	0	0
11/8/2024 9:10	67002	STHI_T2	1	2	1	0.4	0.3	-0.1	1.14	1.18	0	0	0	0	0	0
11/8/2024 9:10	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/8/2024 9:11	57205	ROSS_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
11/8/2024 9:13	52402	GRPA_T2	1	4	3	0.4	0.28	-0.12	-0.76	-0.78	0	0	0	0	0	0
11/8/2024 9:13	52401	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/8/2024 9:13	52403	GRPA_T2	6	5	-1	0.43	0.52	0.09	0	0	0	0	0	0	0	0
11/8/2024 9:14	11203	ELHE_T1	0	0	0	0	0	0	0.9	0.93	0	0	0	0	0	0
11/8/2024 9:14	42701	AUGU_T1	1	1	0	0.7	0.9	0.2	0	0	2	2	0	1800	1800	0
11/8/2024 9:14	11205	ELHE_T1	1	0	-1	4.9	0	-4.9	0	0	0	0	0	0	0	0
11/8/2024 9:15	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 9:15	45701	LIND_T2	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
11/8/2024 9:15	45702	LIND_T2	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0	0
11/8/2024 9:15	21206	ECAR_T2	1	1	0	7.5	7.5	0	0.25	0.28	0	0	0	0	0	0
11/8/2024 9:16	41301	FISH_T1	3	3	0	1.47	1.27	-0.2	0.33	0.38	0	0	0	0	0	0
11/8/2024 9:16	45702	LIND_T2	2	2	0	0.65	0.65	0	-1.83	-1.83	0	0	0	0	0	0
11/8/2024 9:16	52401	GRPA_T2	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
11/8/2024 9:16	23901	EFMO_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
11/8/2024 9:16	52402	GRPA_T2	4	3	-1	0.28	0.3	0.02	0	0	0	0	0	0	0	0
11/8/2024 9:16	52403	GRPA_T2	5	6	1	0.52	0.58	0.06	-0.1	-0.16	0	0	0	0	0	0
11/8/2024 9:17	12006	HATF_T1	0	0	0	0	0	0	0.72	0.75	1	1	0	1200	1200	0
11/8/2024 9:17	45702	LIND_T2	2	2	0	0.65	0.65	0	-1.83	-1.83	0	0	0	0	0	0
11/8/2024 9:17	25402	LAHA_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
11/8/2024 9:18	13303	ORVI_T1	3	0	-3	0.1	0	-0.1	-0.46	-0.4	0	0	0	0	0	0
11/8/2024 9:18	63501	HEID_TBK1-2	3	3	0	0.8	0.5	-0.3	0.66	0.67	0	0	0	0	0	0
11/8/2024 9:19	15603	NSTR_T2	1	1	0	0.2	0.3	0.1	-0.64	-0.64	0	0	0	0	0	0
11/8/2024 9:20	63501	HEID_TBK1-2	3	3	0	0.8	0.5	-0.3	0.66	0.67	0	0	0	0	0	0
11/8/2024 9:21	15203	SFAR_T2	5	5	0	0.36	0.46	0.1	-2.76	-2.7	0	0	0	0	0	0
11/8/2024 9:22	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
11/8/2024 9:22	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.5	0	0	0	0	0	0
11/8/2024 9:23	15203	SFAR_T2	5	5	0	0.36	0.46	0.1	-2.76	-2.7	0	0	0	0	0	0
11/8/2024 9:24	15203	SFAR_T2	5	5	0	0.36	0.46	0.1	0	0	0	0	0	0	0	0
11/8/2024 9:24	15204	SFAR_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
11/8/2024 9:25	15203	SFAR_T2	5	5	0	0.36	0.46	0.1	-1.38	-1.35	0	0	0	0	0	0
11/8/2024 9:26	58003	WCAR_T1	1	1	0	1.3	1	-0.3	0.21	0.15	1	1	0	600	600	0
11/8/2024 9:26	49804	UNIV_T1	2	1	-1	0.2	0.8	0.6	0.5	0.52	0	0	0	0	0	0
11/8/2024 9:26	58001	WCAR_T1	4	4	0	1.28	0.68	-0.6	0	0	0	0	0	0	0	0
11/8/2024 9:26	49803	UNIV_T1	1	1	0	5	5	0	0	0	0	0	0	0	0	0
11/8/2024 9:27	58803	COCO_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
11/8/2024 9:30	12001	HATF_T1	0	0	0	0	0	0	0.35	0.55	1	1	0	600	600	0
11/8/2024 9:31	24104	EHAZ_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	1200	1200	0
11/8/2024 9:31	24101	EHAZ_T1	2	2	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
11/8/2024 9:31	12001	HATF_T1	0	0	0	0	0	0	0.35	0.55	1	1	0	600	600	0
11/8/2024 9:31	24105	EHAZ_T1	4	4	0	6.03	5.93	-0.1	0	0	0	0	0	0	0	0
11/8/2024 9:33	67401	WAKE_T2	3	1	-2	0.2	0.2	0	-0.86	-0.83	0	0	0	0	0	0
11/8/2024 9:36	66501	SMAN_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
11/8/2024 9:36	66503	SMAN_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
11/8/2024 9:36	67403	WAKE_T2	3	1	-2	0.2	0.2	0	-0.83	-0.67	0	0	0	0	0	0
11/8/2024 9:36	66504	SMAN_T2	3	2	-1	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
11/8/2024 9:36	66502	SMAN_T2	9	2	-7	0.26	0.35	0.09	0.17	0.15	0	0	0	0	0	0
11/8/2024 9:37	66504	SMAN_T2	3	2	-1	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
11/8/2024 9:37	43801	SWIL_T1	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
11/8/2024 9:37	14603	SWHI_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
11/8/2024 9:37	66501	SMAN_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
11/8/2024 9:37	66502	SMAN_T2	9	2	-7	0.26	0.35	0.09	0.17	0.15	0	0	0	0	0	0
11/8/2024 9:37	43802	SWIL_T1	0	0	0	0	0	0	-0.26	-0.26	1	1	0	600	600	0
11/8/2024 9:37	14601	SWHI_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
11/8/2024 9:38	66502	SMAN_T2	9	2	-7	0.26	0.35	0.09	0	0	0	0	0	0	0	0
11/8/2024 9:38	66501	SMAN_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
11/8/2024 9:38	64904	MILL_T1	1	0	-1	0.1	0	-0.1	0.4	0.41	0	0	0	0	0	0
11/8/2024 9:38	64901	MILL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/8/2024 9:38	66504	SMAN_T2	3	2	-1	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
11/8/2024 9:39	66501	SMAN_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
11/8/2024 9:39	66504	SMAN_T2	3	2	-1	0.63	0.5	-0.13	-0.31	-0.36	0	0	0	0	0	0
11/8/2024 9:39	43304	WATS_T2	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
11/8/2024 9:39	66502	SMAN_T2	9	2	-7	0.26	0.35	0.09	0.17	0.15	0	0	0	0	0	0
11/8/2024 9:40	66504	SMAN_T2	3	2	-1	0.63	0.5	-0.13	-0.61	-0.72	0	0	0	0	0	0
11/8/2024 9:40	66501	SMAN_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
11/8/2024 9:40	66502	SMAN_T2	9	2	-7	0.26	0.35	0.09	0.5	0.44	0	0	0	0	0	0
11/8/2024 9:40	43304	WATS_T2	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
11/8/2024 9:41	66502	SMAN_T2	9	2	-7	0.26	0.35	0.09	0	0	0	0	0	0	0	0
11/8/2024 9:41	66501	SMAN_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
11/8/2024 9:41	43301	WATS_T2	0	0	0	0	0	0	-0.42	0.13	0	0	0	0	0	0
11/8/2024 9:41	66504	SMAN_T2	3	2	-1	0.63	0.5	-0.13	-0.61	-0.72	0	0	0	0	0	0
11/8/2024 9:42	45501	DERR_T2	0	0	0	0	0	0	0.37	0.37	2	2	0	1800	1800	0
11/8/2024 9:43	15001	BLMO_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
11/8/2024 9:43	10801	CHHI_T1	2	2	0	0.25	0.5	0.25	-1.5	-1.59	2	2	0	1500	1500	0
11/8/2024 9:44	10805	CHHI_T2	2	5	3	3.75	1.62	-2.13	-1.54	-1.59	2	2	0	1800	1800	0
11/8/2024 9:44	55002	NEWP_T1	6	15	9	0.83	0.85	0.02	-0.24	-0.24	0	0	0	0	0	0
11/8/2024 9:44	55001	NEWP_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
11/8/2024 9:44	44903	SCOT_T1	0	0	0	0	0	0	0.35	0.39	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/8/2024 9:45	45501	DERR_T2	0	0	0	0	0	0	0.37	0.37	2	2	0	1800	1800	0
11/8/2024 9:45	66504	SMAN_T2	2	1	-1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
11/8/2024 9:45	66501	SMAN_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
11/8/2024 9:45	66502	SMAN_T2	2	0	-2	0.35	0	-0.35	0.17	0.15	0	0	0	0	0	0
11/8/2024 9:47	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
11/8/2024 9:47	15702	TANN_T2	0	0	0	0	0	0	-0.5	-0.45	0	0	0	0	0	0
11/8/2024 9:51	41801	GOCI_T2	6	6	0	0.42	0.35	-0.07	0	0	0	0	0	0	0	0
11/8/2024 9:51	60801	BUCK_T1	0	1	1	0	0.3	0.3	0.05	0.06	0	0	0	0	0	0
11/8/2024 9:51	60803	BUCK_T1	9	8	-1	0.14	0.15	0.01	0	0	0	0	0	0	0	0
11/8/2024 9:51	67605	WARW_T1	14	16	2	0.49	0.49	0	-1.24	-1.15	0	0	0	0	0	0
11/8/2024 9:52	67605	WARW_T1	14	16	2	0.49	0.49	0	-1.24	-1.15	0	0	0	0	0	0
11/8/2024 9:52	58003	WCAR_T1	1	1	0	1	1.1	0.1	0.18	0.2	1	1	0	600	600	0
11/8/2024 9:52	58001	WCAR_T1	3	4	1	0.67	0.68	0.01	0	0	0	0	0	0	0	0
11/8/2024 9:52	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 9:53	67605	WARW_T1	14	16	2	0.49	0.49	0	0	0	0	0	0	0	0	0
11/8/2024 9:53	67603	WARW_T1	0	0	0	0	0	0	-0.02	-0.08	0	0	0	0	0	0
11/8/2024 10:00	17802	GILB_T1	2	4	2	0.7	0.45	-0.25	0.05	0.07	0	0	0	0	0	0
11/8/2024 10:05	41902	REED_T1	0	0	0	0	0	0	0.96	0.85	0	0	0	0	0	0
11/8/2024 10:13	57104	SPHI_T2	2	4	2	3.5	2	-1.5	-0.57	-0.61	0	0	0	0	0	0
11/8/2024 10:13	57106	SPHI_T2	3	3	0	1.27	1.23	-0.04	0	0	0	0	0	0	0	0
11/8/2024 10:13	57101	SPHI_T2	6	6	0	0.93	0.75	-0.18	0	0	0	0	0	0	0	0
11/8/2024 10:14	67002	STHI_T2	1	1	0	0.2	0.4	0.2	0.55	0.58	0	0	0	0	0	0
11/8/2024 10:14	48901	FOSP_T2	0	0	0	0	0	0	-0.3	-0.33	3	3	0	1800	1800	0
11/8/2024 10:14	48902	FOSP_T2	0	1	1	0	0.4	0.4	0.33	0.43	0	0	0	0	0	0
11/8/2024 10:14	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/8/2024 10:15	17805	GILB_T2	2	2	0	0.15	0.15	0	-0.1	-0.16	0	0	0	0	0	0
11/8/2024 10:15	17804	GILB_T2	2	3	1	0.15	0.73	0.58	0	0	0	0	0	0	0	0
11/8/2024 10:16	17804	GILB_T2	2	3	1	0.15	0.73	0.58	0	0	0	0	0	0	0	0
11/8/2024 10:16	17805	GILB_T2	2	2	0	0.15	0.15	0	-0.1	-0.16	0	0	0	0	0	0
11/8/2024 10:16	48901	FOSP_T2	0	0	0	0	0	0	-0.3	-0.33	3	3	0	1800	1800	0
11/8/2024 10:16	48902	FOSP_T2	1	1	0	0.4	0.4	0	0.33	0.43	0	0	0	0	0	0
11/8/2024 10:17	63804	HEMP_T1	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
11/8/2024 10:17	63803	HEMP_T1	2	3	1	0.25	0.4	0.15	0.13	0.08	0	0	0	0	0	0
11/8/2024 10:17	63801	HEMP_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
11/8/2024 10:17	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/8/2024 10:17	61001	DONV_T1	2	1	-1	0.75	0.3	-0.45	0	0	0	0	0	0	0	0
11/8/2024 10:18	48901	FOSP_T2	0	0	0	0	0	0	-0.1	-0.11	1	1	0	600	600	0
11/8/2024 10:18	48902	FOSP_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/8/2024 10:25	29401	BELT_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/8/2024 10:25	29402	BELT_T1	1	1	0	7.5	7.6	0.1	0	0	0	0	0	0	0	0
11/8/2024 10:27	29402	BELT_T1	1	1	0	7.5	7.6	0.1	0	0	0	0	0	0	0	0
11/8/2024 10:27	29401	BELT_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/8/2024 10:31	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 10:32	10801	CHHI_T1	6	7	1	0.42	0.53	0.11	-1.64	-1.45	2	2	0	1500	1500	0
11/8/2024 10:35	64101	REFR_T1	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
11/8/2024 10:35	64305	LINC_T1	0	0	0	0	0	0	-0.18	-0.22	0	0	0	0	0	0
11/8/2024 10:35	60801	BUCK_T1	2	28	26	0.25	0.21	-0.04	0.06	0.06	0	0	0	0	0	0
11/8/2024 10:35	60803	BUCK_T1	14	16	2	0.22	0.44	0.22	0	0	0	0	0	0	0	0
11/8/2024 10:35	26301	OLFO_T2	0	0	0	0	0	0	0.6	0.63	2	2	0	2400	2400	0
11/8/2024 10:36	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
11/8/2024 10:36	60803	BUCK_T1	14	16	2	0.22	0.44	0.22	0	0	0	0	0	0	0	0
11/8/2024 10:36	60801	BUCK_T1	2	28	26	0.25	0.21	-0.04	0.06	0.08	0	0	0	0	0	0
11/8/2024 10:37	43801	SWIL_T1	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
11/8/2024 10:37	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
11/8/2024 10:37	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 10:38	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/8/2024 10:39	54601	SUMM_T2	9	11	2	0.42	0.32	-0.1	-2.96	-2.98	2	2	0	2100	2100	0
11/8/2024 10:39	54602	SUMM_T2	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
11/8/2024 10:39	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/8/2024 10:39	26301	OLFO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 10:45	11202	ELHE_T2	0	0	0	0	0	0	0.36	0.43	1	1	0	1200	1200	0
11/8/2024 10:46	63803	HEMP_T1	3	8	5	0.4	0.34	-0.06	0.07	0.13	0	0	0	0	0	0
11/8/2024 10:46	63804	HEMP_T1	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
11/8/2024 10:46	63802	HEMP_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/8/2024 10:46	63801	HEMP_T1	1	7	6	0.8	0.41	-0.39	0	0	0	0	0	0	0	0
11/8/2024 10:47	63804	HEMP_T1	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
11/8/2024 10:47	63802	HEMP_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/8/2024 10:47	63803	HEMP_T1	3	8	5	0.4	0.34	-0.06	0.07	0.13	0	0	0	0	0	0
11/8/2024 10:47	63801	HEMP_T1	1	7	6	0.8	0.41	-0.39	0	0	0	0	0	0	0	0
11/8/2024 10:49	63804	HEMP_T1	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
11/8/2024 10:49	63803	HEMP_T1	3	8	5	0.4	0.34	-0.06	0.07	0.13	0	0	0	0	0	0
11/8/2024 10:49	63802	HEMP_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/8/2024 10:49	63801	HEMP_T1	1	7	6	0.8	0.41	-0.39	0	0	0	0	0	0	0	0
11/8/2024 10:51	63804	HEMP_T1	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
11/8/2024 10:51	63801	HEMP_T1	1	7	6	0.8	0.41	-0.39	0.22	0.19	0	0	0	0	0	0
11/8/2024 10:51	63803	HEMP_T1	3	8	5	0.4	0.34	-0.06	0	0	0	0	0	0	0	0
11/8/2024 10:51	63802	HEMP_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/8/2024 10:52	14801	TREI_T2	3	3	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/8/2024 10:52	14802	TREI_T2	4	4	0	0.25	0.23	-0.02	0.37	0.31	0	0	0	0	0	0
11/8/2024 10:53	14802	TREI_T2	4	4	0	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
11/8/2024 10:53	14801	TREI_T2	3	3	0	0.4	0.6	0.2	0.25	0.27	0	0	0	0	0	0
11/8/2024 10:55	66504	SMAN_T2	3	5	2	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
11/8/2024 10:55	66502	SMAN_T2	3	6	3	0.3	0.37	0.07	0.32	0.32	0	0	0	0	0	0
11/8/2024 10:55	66501	SMAN_T2	2	2	0	0.25	0.75	0.5	0	0	0	0	0	0	0	0
11/8/2024 10:57	66504	SMAN_T2	3	5	2	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
11/8/2024 10:57	66502	SMAN_T2	3	6	3	0.3	0.37	0.07	0	0	0	0	0	0	0	0
11/8/2024 10:57	66505	SMAN_T2	0	0	0	0	0	0	0.55	0.43	1	1	0	900	900	0
11/8/2024 10:57	66501	SMAN_T2	2	2	0	0.25	0.75	0.5	0	0	0	0	0	0	0	0
11/8/2024 10:58	40502	CRES_T2	43	74	31	0.25	0.28	0.03	-0.33	-0.41	0	0	0	0	0	0
11/8/2024 10:58	40501	CRES_T2	3	9	6	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
11/8/2024 10:59	40502	CRES_T2	43	74	31	0.25	0.28	0.03	-1.32	-1.64	0	0	0	0	0	0
11/8/2024 10:59	40501	CRES_T2	3	9	6	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
11/8/2024 11:00	40501	CRES_T2	4	9	5	0.28	0.28	0	0	0	0	0	0	0	0	0
11/8/2024 11:00	55001	NEWP_T1	3	5	2	0.5	0.6	0.1	0.01	-0.11	0	0	0	0	0	0
11/8/2024 11:00	55002	NEWP_T1	19	27	8	0.79	0.63	-0.16	0	0	0	0	0	0	0	0
11/8/2024 11:00	40502	CRES_T2	34	82	48	0.25	0.28	0.03	-1.32	-1.64	0	0	0	0	0	0
11/8/2024 11:01	21204	ECAR_T2	1	1	0	0	0	0	-0.72	-0.69	0	0	0	0	0	0
11/8/2024 11:01	21206	ECAR_T2	1	1	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
11/8/2024 11:01	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.45	0	0	0	0	0	0
11/8/2024 11:01	15703	TANN_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
11/8/2024 11:01	40501	CRES_T2	4	9	5	0.28	0.28	0	0	0	0	0	0	0	0	0
11/8/2024 11:01	40502	CRES_T2	34	82	48	0.25	0.28	0.03	-2.64	-3.27	0	0	0	0	0	0
11/8/2024 11:02	63601	LETO_T1	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
11/8/2024 11:02	23201	HIRU_T2	0	1	1	0	0.1	0.1	0.15	0.15	0	0	0	0	0	0
11/8/2024 11:02	63602	LETO_T1	1	62	61	0.5	0.14	-0.36	-0.92	-0.83	0	0	0	0	0	0
11/8/2024 11:03	40501	CRES_T2	4	9	5	0.28	0.28	0	0	0	0	0	0	0	0	0
11/8/2024 11:03	40502	CRES_T2	34	82	48	0.25	0.28	0.03	-0.66	-0.82	0	0	0	0	0	0
11/8/2024 11:04	40501	CRES_T2	4	9	5	0.28	0.28	0	0	0	0	0	0	0	0	0
11/8/2024 11:04	40502	CRES_T2	34	82	48	0.25	0.28	0.03	-0.33	-0.41	0	0	0	0	0	0
11/8/2024 11:07	10107	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 11:07	10101	ALLE_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/8/2024 11:07	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 11:10	42701	AUGU_T1	1	1	0	1	0.9	-0.1	0	0	2	2	0	1800	1800	0
11/8/2024 11:14	42701	AUGU_T1	1	1	0	1	0.9	-0.1	0	0	2	2	0	1800	1800	0
11/8/2024 11:17	46602	LACR_T1	2	3	1	1.25	1	-0.25	-1.22	-1.26	0	0	0	0	0	0
11/8/2024 11:20	46602	LACR_T1	2	3	1	1.25	1	-0.25	-1.22	-1.26	0	0	0	0	0	0
11/8/2024 11:20	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.18	0	0	0	0	0	0
11/8/2024 11:21	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
11/8/2024 11:22	15103	UPHA_T2	2	2	0	0.5	0.6	0.1	0.36	0.39	0	0	0	0	0	0
11/8/2024 11:22	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
11/8/2024 11:23	49803	UNIV_T1	1	2	1	5	2.55	-2.45	-1.15	-1.18	0	0	0	0	0	0
11/8/2024 11:23	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
11/8/2024 11:24	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
11/8/2024 11:26	66502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 11:26	49803	UNIV_T1	1	2	1	5	2.55	-2.45	-1.15	-1.18	0	0	0	0	0	0
11/8/2024 11:26	58401	MORO_T1	1	1	0	0.2	0.2	0	-1.77	-1.73	1	1	0	600	600	0
11/8/2024 11:26	58402	MORO_T1	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/8/2024 11:27	58401	MORO_T1	1	1	0	0.2	0.2	0	-3.54	-3.46	2	2	0	1200	1200	0
11/8/2024 11:27	58402	MORO_T1	2	2	0	0.3	0.4	0.1	-0.07	0.4	2	1	-1	1500	900	-600
11/8/2024 11:29	58402	MORO_T1	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/8/2024 11:29	58401	MORO_T1	1	1	0	0.2	0.2	0	-1.77	-1.73	1	1	0	600	600	0
11/8/2024 11:30	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
11/8/2024 11:31	58402	MORO_T1	2	1	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/8/2024 11:31	60504	NMAN_T2	3	2	-1	0.63	0.8	0.17	0	0	0	0	0	0	0	0
11/8/2024 11:31	40101	HUNT_T2	3	1	-2	0.1	0	-0.1	-0.23	-0.48	0	0	0	0	0	0
11/8/2024 11:31	58401	MORO_T1	1	1	0	0.2	0.1	-0.1	-1.77	-1.73	1	1	0	600	600	0
11/8/2024 11:31	60502	NMAN_T2	2	1	-1	0.25	0.2	-0.05	-0.2	-0.2	0	0	0	0	0	0
11/8/2024 11:31	60501	NMAN_T2	28	22	-6	0.17	0.2	0.03	0	0	0	0	0	0	0	0
11/8/2024 11:35	64704	LITI_T1	0	0	0	0	0	0	0.72	0.42	2	2	0	1200	1200	0
11/8/2024 11:37	58001	WCAR_T1	4	4	0	1.43	1.6	0.17	0	0	0	0	0	0	0	0
11/8/2024 11:37	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
11/8/2024 11:37	58003	WCAR_T1	1	7	6	1.6	0.39	-1.21	0.25	0.91	1	0	-1	600	0	-600
11/8/2024 11:37	66502	SMAN_T2	7	13	6	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
11/8/2024 11:37	66504	SMAN_T2	5	5	0	0.64	0.74	0.1	0	0	0	0	0	0	0	0
11/8/2024 11:37	66501	SMAN_T2	2	2	0	0.95	1.15	0.2	0	0	0	0	0	0	0	0
11/8/2024 11:38	64101	REFR_T1	0	0	0	0	0	0	-0.54	-0.59	0	0	0	0	0	0
11/8/2024 11:38	58001	WCAR_T1	4	4	0	1.43	1.6	0.17	0	0	0	0	0	0	0	0
11/8/2024 11:38	58003	WCAR_T1	1	7	6	1.6	0.39	-1.21	0.25	0.91	1	0	-1	600	0	-600
11/8/2024 11:39	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
11/8/2024 11:40	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
11/8/2024 11:44	58402	MORO_T1	2	1	-1	0.4	0.2	-0.2	0.4	0.42	1	1	0	900	900	0
11/8/2024 11:44	58401	MORO_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/8/2024 11:45	23201	HIRU_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/8/2024 11:45	23202	HIRU_T2	0	1	1	0	0	0	0.09	0.09	0	0	0	0	0	0
11/8/2024 11:46	48902	FOSP_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
11/8/2024 11:46	48901	FOSP_T2	0	0	0	0	0	0	-0.06	-0.07	1	1	0	600	600	0
11/8/2024 11:47	46801	HEPB_T2	2	2	0	1.15	1.25	0.1	1.09	1.12	0	0	0	0	0	0
11/8/2024 11:47	46803	HEPB_T2	3	3	0	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
11/8/2024 11:48	65207	PRIN_T4	2	2	0	1.15	0.2	-0.95	0	0	1	1	0	1200	1200	0
11/8/2024 11:48	65001	NEFF_T2	0	0	0	0	0	0	1.02	0.95	0	0	0	0	0	0
11/8/2024 11:48	65003	NEFF_T2	4	0	-4	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/8/2024 11:48	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 11:48	65004	NEFF_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/8/2024 11:48	65005	NEFF_T2	1	1	0	0.7	0.2	-0.5	-0.03	-0.02	0	0	0	0	0	0
11/8/2024 11:48	65201	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 11:50	67805	WLAN_T1	27	11	-16	0.1	0.1	0	-0.92	-0.9	0	0	0	0	0	0
11/8/2024 11:50	67803	WLAN_T1	102	83	-19	0.17	0.17	0	0	0	0	0	0	0	0	0
11/8/2024 11:50	63501	HEID_TBK1-2	5	5	0	0.26	0.38	0.12	2.23	2.22	0	0	0	0	0	0
11/8/2024 11:50	67804	WLAN_T1	162	96	-66	0.16	0.2	0.04	0	0	0	0	0	0	0	0
11/8/2024 11:50	65205	PRIN_T1	1	2	1	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
11/8/2024 11:51	14401	SSLA_T1	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
11/8/2024 11:51	14402	SSLA_T1	3	4	1	0.43	0.43	0	0	0	0	0	0	0	0	0
11/8/2024 11:51	65602	QVIL_T2	3	2	-1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
11/8/2024 11:51	65601	QVIL_T2	3	3	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
11/8/2024 11:51	14404	SSLA_T1	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/8/2024 11:51	14403	SSLA_T1	3	5	2	0.37	0.32	-0.05	0.53	0.5	0	0	0	0	0	0
11/8/2024 11:52	65005	NEFF_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
11/8/2024 11:52	65004	NEFF_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
11/8/2024 11:52	65003	NEFF_T2	4	0	-4	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/8/2024 11:52	65001	NEFF_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
11/8/2024 11:53	65601	QVIL_T2	3	3	0	0.33	0.3	-0.03	-0.01	-0.17	0	0	0	0	0	0
11/8/2024 11:53	65602	QVIL_T2	3	2	-1	0.3	0.25	-0.05	0.42	0.32	0	0	0	0	0	0
11/8/2024 11:55	67303	WYOM_T2	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
11/8/2024 11:55	67103	SPRI_T1	1	2	1	0.2	0.3	0.1	-2.07	-2.01	0	0	0	0	0	0
11/8/2024 11:56	14402	SSLA_T1	3	4	1	0.43	0.43	0	0	0	0	0	0	0	0	0
11/8/2024 11:56	14404	SSLA_T1	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/8/2024 11:56	14401	SSLA_T1	2	2	0	0.45	0.8	0.35	-0.55	-0.57	0	0	0	0	0	0
11/8/2024 11:56	14403	SSLA_T1	3	5	2	0.37	0.32	-0.05	0	0	0	0	0	0	0	0
11/8/2024 12:01	59301	MCAL_T1	12	39	27	0.61	0.33	-0.28	-1.48	-1.42	0	0	0	0	0	0
11/8/2024 12:01	59302	MCAL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/8/2024 12:02	17804	GILB_T2	2	7	5	0.4	0.31	-0.09	-0.61	-0.62	0	0	0	0	0	0
11/8/2024 12:02	17805	GILB_T2	2	3	1	0.4	0.4	0	0	0	0	0	0	0	0	0
11/8/2024 12:04	64902	MILL_T2	0	1	1	0	0.3	0.3	0.25	0.2	0	0	0	0	0	0
11/8/2024 12:04	64903	MILL_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
11/8/2024 12:09	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
11/8/2024 12:10	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
11/8/2024 12:11	54505	ENOL_T2	2	2	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
11/8/2024 12:11	54501	ENOL_T2	3	3	0	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
11/8/2024 12:11	54506	ENOL_T2	0	0	0	0	0	0	0.59	0.53	1	1	0	600	600	0
11/8/2024 12:11	43402	BENT_T1	1	1	0	0.8	1	0.2	-0.68	-0.67	1	1	0	900	900	0
11/8/2024 12:11	54502	ENOL_T2	8	4	-4	0.34	0.48	0.14	0	0	0	0	0	0	0	0
11/8/2024 12:12	43402	BENT_T1	1	1	0	0.8	1	0.2	-0.68	-0.67	1	1	0	900	900	0
11/8/2024 12:14	26002	WDAM_T1	2	3	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/8/2024 12:17	23201	HIRU_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/8/2024 12:17	23203	HIRU_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
11/8/2024 12:18	67503	WEWI_T2	1	1	0	8.7	8.7	0	0	0	0	0	0	0	0	0
11/8/2024 12:18	67501	WEWI_T1	3	3	0	0.13	0.17	0.04	-0.36	-0.35	0	0	0	0	0	0
11/8/2024 12:18	67502	WEWI_T2	20	14	-6	0.35	0.36	0.01	-0.64	-0.73	0	0	0	0	0	0
11/8/2024 12:19	67502	WEWI_T2	20	14	-6	0.35	0.36	0.01	-0.32	-0.37	0	0	0	0	0	0
11/8/2024 12:19	67503	WEWI_T2	1	1	0	8.7	8.7	0	0.07	0.07	0	0	0	0	0	0
11/8/2024 12:21	67503	WEWI_T2	1	1	0	8.7	8.7	0	0	0	0	0	0	0	0	0
11/8/2024 12:21	67502	WEWI_T2	20	14	-6	0.35	0.36	0.01	-0.37	-0.21	0	0	0	0	0	0
11/8/2024 12:23	67502	WEWI_T2	20	14	-6	0.35	0.36	0.01	-0.37	-0.21	0	0	0	0	0	0
11/8/2024 12:23	67503	WEWI_T2	1	1	0	8.7	8.7	0	0	0	0	0	0	0	0	0
11/8/2024 12:28	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/8/2024 12:32	40703	FFLD_T1	3	2	-1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
11/8/2024 12:32	46803	HEPB_T2	3	3	0	0.2	0.37	0.17	0	0	0	0	0	0	0	0
11/8/2024 12:32	46801	HEPB_T2	2	2	0	1.15	1.15	0	0.55	0.53	0	0	0	0	0	0
11/8/2024 12:32	40701	FFLD_T1	33	29	-4	0.4	0.4	0	0	0	0	0	0	0	0	0
11/8/2024 12:32	40702	FFLD_T1	3	2	-1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
11/8/2024 12:35	40601	PIGR_T1	173	152	-21	0.48	0.4	-0.08	0.31	0.34	0	0	0	0	0	0
11/8/2024 12:35	40602	PIGR_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
11/8/2024 12:35	40603	PIGR_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
11/8/2024 12:38	66501	SMAN_T2	2	2	0	0.95	0.7	-0.25	0	0	0	0	0	0	0	0
11/8/2024 12:38	66504	SMAN_T2	5	4	-1	0.6	0.6	0	-0.43	-0.55	0	0	0	0	0	0
11/8/2024 12:38	66502	SMAN_T2	5	4	-1	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
11/8/2024 12:39	66504	SMAN_T2	5	4	-1	0.6	0.6	0	-1.28	-1.65	0	0	0	0	0	0
11/8/2024 12:39	14401	SSLA_T1	2	2	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
11/8/2024 12:39	14403	SSLA_T1	5	5	0	0.44	0.3	-0.14	0	0	0	0	0	0	0	0
11/8/2024 12:39	14801	TREI_T2	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
11/8/2024 12:39	14402	SSLA_T1	4	3	-1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
11/8/2024 12:39	14802	TREI_T2	1	2	1	0.1	0.3	0.2	0.3	0.41	0	0	0	0	0	0
11/8/2024 12:39	66502	SMAN_T2	5	4	-1	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
11/8/2024 12:39	14404	SSLA_T1	1	1	0	0.4	0.3	-0.1	-0.04	-0.04	0	0	0	0	0	0
11/8/2024 12:39	66501	SMAN_T2	2	2	0	0.95	0.7	-0.25	0	0	0	0	0	0	0	0
11/8/2024 12:40	66501	SMAN_T2	2	2	0	0.95	0.7	-0.25	0	0	0	0	0	0	0	0
11/8/2024 12:40	66502	SMAN_T2	5	4	-1	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
11/8/2024 12:40	66504	SMAN_T2	5	4	-1	0.6	0.6	0	0	0	0	0	0	0	0	0
11/8/2024 12:42	66502	SMAN_T2	5	4	-1	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
11/8/2024 12:42	66504	SMAN_T2	5	4	-1	0.6	0.6	0	0	0	0	0	0	0	0	0
11/8/2024 12:42	66501	SMAN_T2	2	2	0	0.95	0.7	-0.25	0	0	0	0	0	0	0	0
11/8/2024 12:46	52402	GRPA_T2	16	0	0	0.44	0.55	0.11	-0.88	-0.88	0	0	0	0	0	0
11/8/2024 12:46	52403	GRPA_T2	25	25	0	0.51	0.58	0.07	0	0	0	0	0	0	0	0
11/8/2024 12:46	52401	GRPA_T2	5	4	-1	0.34	0.4	0.06	0	0	0	0	0	0	0	0
11/8/2024 12:48	60801	BUCK_T1	27	46	19	0.2	0.23	0.03	-0.19	-0.19	0	0	0	0	0	0
11/8/2024 12:48	60803	BUCK_T1	12	12	0	0.27	0.32	0.05	0	0	0	0	0	0	0	0
11/8/2024 12:51	60803	BUCK_T1	12	12	0	0.27	0.32	0.05	0	0	0	0	0	0	0	0
11/8/2024 12:51	60801	BUCK_T1	27	46	19	0.2	0.23	0.03	0	0	0	0	0	0	0	0
11/8/2024 12:55	45303	WBER_T2	9	9	0	1.2	1.31	0.11	0	0	0	0	0	0	0	0
11/8/2024 12:55	45302	WBER_T2	0	0	0	0	0	0	0.61	0.46	0	0	0	0	0	0
11/8/2024 12:57	66501	SMAN_T2	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
11/8/2024 12:57	66504	SMAN_T2	4	4	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/8/2024 12:57	66502	SMAN_T2	4	2	-2	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
11/8/2024 12:59	29301	DAPP_T1	1	9	8	0.1	0	-0.1	0	0	1	1	0	600	600	0
11/8/2024 12:59	29302	DAPP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/8/2024 13:03	22601	KIMB_T1	2	2	0	0.55	0.35	-0.2	0	0	0	0	0	0	0	0
11/8/2024 13:03	22602	KIMB_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
11/8/2024 13:04	46101	MACI_T2	0	0	0	0	0	0	1.34	1.21	0	0	0	0	0	0
11/8/2024 13:04	46803	HEPB_T2	3	4	1	0.33	0.3	-0.03	0.4	0.43	0	0	0	0	0	0
11/8/2024 13:04	46802	HEPB_T1	2	2	0	0.55	0.7	0.15	-0.36	-0.32	0	0	0	0	0	0
11/8/2024 13:04	46801	HEPB_T2	2	2	0	1.15	1.15	0	0	0	0	0	0	0	0	0
11/8/2024 13:12	66502	SMAN_T2	2	4	2	0.1	0.38	0.28	0	0	0	0	0	0	0	0
11/8/2024 13:12	66504	SMAN_T2	4	4	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
11/8/2024 13:12	66501	SMAN_T2	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
11/8/2024 13:13	42701	AUGU_T1	1	1	0	0.5	0.8	0.3	0	0	0	2	2	0	1800	1800
11/8/2024 13:19	43202	MVIL_T2	1	1	0	0.8	0.9	0.1	-0.77	-0.75	0	0	0	0	0	0
11/8/2024 13:24	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 13:33	63602	LETO_T1	13	131	118	0.11	0.29	0.18	0	0	0	0	0	0	0	0
11/8/2024 13:33	63601	LETO_T1	3	8	5	0.53	0.58	0.05	1.4	1.21	1	1	0	900	900	0
11/8/2024 13:37	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
11/8/2024 13:38	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
11/8/2024 13:40	13701	SCHN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/8/2024 13:40	13704	SCHN_T2	1	1	0	0.1	0.1	0	-0.43	-0.43	0	0	0	0	0	0
11/8/2024 13:41	10707	CATA_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
11/8/2024 13:41	10702	CATA_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
11/8/2024 13:41	10705	CATA_T2	1	1	0	1.9	1.8	-0.1	0.02	0	0	0	0	0	0	0
11/8/2024 13:42	58803	COCO_T1	1	1	0	1.9	2.1	0.2	0	0	0	0	0	0	0	0
11/8/2024 13:43	10701	CATA_T2	0	0	0	0	0	0	-0.54	-0.6	0	0	0	0	0	0
11/8/2024 13:43	10702	CATA_T2	1	1	0	0.3	0.7	0.4	-0.73	-0.83	0	0	0	0	0	0
11/8/2024 13:43	13101	NHAM_T1	0	0	0	0	0	0	-3.2	-3.07	2	2	0	2400	2400	0
11/8/2024 13:43	10705	CATA_T2	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
11/8/2024 13:43	10707	CATA_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
11/8/2024 13:45	10707	CATA_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
11/8/2024 13:45	10702	CATA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
11/8/2024 13:45	10705	CATA_T2	1	2	1	1.8	1.4	-0.4	0.02	0	0	0	0	0	0	0
11/8/2024 13:47	10707	CATA_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
11/8/2024 13:47	10702	CATA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
11/8/2024 13:47	10705	CATA_T2	1	2	1	1.8	1.4	-0.4	0.01	0	0	0	0	0	0	0
11/8/2024 13:49	67502	WEWI_T2	15	25	10	0.36	0.25	-0.11	-0.31	-0.36	0	0	0	0	0	0
11/8/2024 13:49	67503	WEWI_T2	1	3	2	8.6	3.03	-5.57	0	0	0	0	0	0	0	0
11/8/2024 14:00	54502	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
11/8/2024 14:00	54504	ENOL_T2	0	0	0	0	0	0	-1.12	-1.1	1	1	0	600	600	0
11/8/2024 14:00	54505	ENOL_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
11/8/2024 14:03	46602	LACR_T1	4	18	14	0.85	0.37	-0.48	-1.22	-1.27	0	0	0	0	0	0
11/8/2024 14:04	65503	MOJO_T2	0	0	0	0	0	0	-0.14	-0.1	0	0	0	0	0	0
11/8/2024 14:05	21901	HUMB_T1	0	2	2	0	0.15	0.15	-2.33	-2.36	0	0	0	0	0	0
11/8/2024 14:09	54602	SUMM_T2	9	0	-9	0.16	0	-0.16	0	0	0	0	0	0	0	0
11/8/2024 14:09	54601	SUMM_T2	5	5	0	0.38	0.38	0	-2.91	-2.91	2	2	0	2100	2100	0
11/8/2024 14:11	13701	SCHN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/8/2024 14:11	66501	SMAN_T2	2	2	0	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
11/8/2024 14:11	66502	SMAN_T2	4	1	-3	0.25	0.1	-0.15	0.18	0.08	0	0	0	0	0	0
11/8/2024 14:11	13704	SCHN_T2	1	1	0	0.1	0.1	0	-0.4	-0.42	0	0	0	0	0	0
11/8/2024 14:11	66504	SMAN_T2	3	2	-1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
11/8/2024 14:14	24702	FLND_T2	0	0	0	0	0	0	-0.12	0.03	1	1	0	1200	1200	0
11/8/2024 14:15	55001	NEWP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/8/2024 14:15	55002	NEWP_T1	7	7	0	1.06	1.13	0.07	-0.23	-0.25	0	0	0	0	0	0
11/8/2024 14:19	46102	MACI_T1	2	5	3	0.1	0.24	0.14	1.07	1.02	0	0	0	0	0	0
11/8/2024 14:20	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 14:20	10903	COOP_T2	5	27	22	0.3	0.16	-0.14	0.01	0.09	1	1	0	600	600	0
11/8/2024 14:22	10903	COOP_T2	5	27	22	0.3	0.16	-0.14	0.09	-0.1	1	1	0	600	600	0
11/8/2024 14:23	14801	TREI_T2	1	1	0	1.2	1.1	-0.1	0.27	0.24	0	0	0	0	0	0
11/8/2024 14:23	14802	TREI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/8/2024 14:24	67503	WEWI_T2	1	3	2	8.7	3.17	-5.53	-0.57	-0.55	0	0	0	0	0	0
11/8/2024 14:24	67502	WEWI_T2	21	67	46	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
11/8/2024 14:27	16101	BING_T2	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
11/8/2024 14:27	16102	BING_T2	0	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0
11/8/2024 14:31	58803	COCO_T1	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
11/8/2024 14:32	53901	HALI_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
11/8/2024 14:32	53903	HALI_T2	2	3	1	1.35	1.1	-0.25	-0.16	-0.18	0	0	0	0	0	0
11/8/2024 14:32	53902	HALI_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
11/8/2024 14:36	57401	SPAN_T1	22	23	1	0.21	0.22	0.01	-0.94	-0.98	1	1	0	600	600	0
11/8/2024 14:36	57403	SPAN_T1	37	38	1	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
11/8/2024 14:37	57401	SPAN_T1	22	23	1	0.21	0.22	0.01	-0.94	-0.98	1	1	0	600	600	0
11/8/2024 14:37	58401	MORO_T1	0	0	0	0	0	0	-0.78	-1	1	1	0	600	600	0
11/8/2024 14:37	57403	SPAN_T1	37	38	1	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
11/8/2024 14:38	57401	SPAN_T1	22	23	1	0.21	0.22	0.01	-0.94	-0.98	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/8/2024 14:38	57403	SPAN_T1	37	38	1	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
11/8/2024 14:38	15203	SFAR_T2	1	1	0	0.2	0.1	-0.1	-1.3	-1.31	0	0	0	0	0	0
11/8/2024 14:39	57403	SPAN_T1	37	38	1	0.29	0.28	-0.01	-0.04	-0.03	0	0	0	0	0	0
11/8/2024 14:39	57401	SPAN_T1	22	23	1	0.21	0.22	0.01	0	0	0	0	0	0	0	0
11/8/2024 14:40	57403	SPAN_T1	37	38	1	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
11/8/2024 14:40	57401	SPAN_T1	22	23	1	0.21	0.22	0.01	-0.94	-0.98	1	1	0	600	600	0
11/8/2024 14:44	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 14:47	66303	MCGO_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
11/8/2024 14:47	66302	MCGO_T2	0	0	0	0	0	0	-1.37	-1	1	0	-1	600	0	-600
11/8/2024 14:48	66301	MCGO_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
11/8/2024 14:48	66303	MCGO_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
11/8/2024 14:49	66301	MCGO_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
11/8/2024 14:49	46504	LOHA_T1	37	2	-35	0.34	1.3	0.96	0	0	0	0	0	0	0	0
11/8/2024 14:49	66303	MCGO_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
11/8/2024 14:49	46506	LOHA_T1	3	3	0	5.63	5.67	0.04	0	0	0	0	0	0	0	0
11/8/2024 14:49	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
11/8/2024 14:52	67201	TEHI_T1	0	0	0	0	0	0	0.5	0.38	2	2	0	1500	1500	0
11/8/2024 14:53	24701	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 14:53	24702	FLND_T2	0	0	0	0	0	0	0.14	0.01	1	1	0	1200	1200	0
11/8/2024 15:00	14204	EALL_T2	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
11/8/2024 15:02	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
11/8/2024 15:02	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 15:05	12002	HATF_T1	0	0	0	0	0	0	0.11	0.01	1	1	0	1200	1200	0
11/8/2024 15:06	65003	NEFF_T2	6	1	-5	0.17	0.1	-0.07	-1.6	-1.64	2	2	0	1800	1800	0
11/8/2024 15:06	20802	LOPO_T1	1	1	0	0.1	0.1	0	-0.57	-0.59	1	1	0	600	600	0
11/8/2024 15:07	54603	SUMM_T2	0	0	0	0	0	0	-0.24	-0.18	1	1	0	900	900	0
11/8/2024 15:07	54602	SUMM_T2	3	2	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
11/8/2024 15:07	54601	SUMM_T2	12	11	-1	0.38	0.35	-0.03	-2.94	-2.96	2	2	0	2100	2100	0
11/8/2024 15:08	46504	LOHA_T1	2	2	0	1.25	1.3	0.05	0	0	0	0	0	0	0	0
11/8/2024 15:08	46506	LOHA_T1	3	3	0	5.67	5.23	-0.44	0	0	0	0	0	0	0	0
11/8/2024 15:08	46502	LOHA_T1	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
11/8/2024 15:09	54601	SUMM_T2	12	11	-1	0.38	0.35	-0.03	-2.94	-2.96	2	2	0	2100	2100	0
11/8/2024 15:09	54602	SUMM_T2	3	2	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
11/8/2024 15:09	67203	TEHI_T1	0	0	0	0	0	0	4.35	4.03	4	4	0	3000	3000	0
11/8/2024 15:11	54601	SUMM_T2	12	11	-1	0.38	0.35	-0.03	-2.94	-2.96	2	2	0	2100	2100	0
11/8/2024 15:11	54602	SUMM_T2	3	2	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
11/8/2024 15:12	50624	CCTY_T2	2	2	0	6.3	6.35	0.05	0	0	0	0	0	0	0	0
11/8/2024 15:12	50623	CCTY_T2	5	5	0	5.84	5.8	-0.04	0	0	0	0	0	0	0	0
11/8/2024 15:12	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 15:12	50625	CCTY_T2	3	4	1	4.63	3.45	-1.18	0	0	0	0	0	0	0	0
11/8/2024 15:13	61506	EPET_T2	0	0	0	0	0	0	-0.66	-0.65	1	1	0	900	900	0
11/8/2024 15:15	47203	FAXO_T2	1	1	0	0.2	0.4	0.2	-0.31	-0.36	0	0	0	0	0	0
11/8/2024 15:17	64202	KINZ_T1	3	3	0	1.1	0.43	-0.67	0	0	0	0	0	0	0	0
11/8/2024 15:17	64201	KINZ_T1	1	0	-1	0.1	0	-0.1	-0.65	-0.33	3	2	-1	1500	1200	-300
11/8/2024 15:17	64204	KINZ_T1	3	1	-2	0.47	0.9	0.43	0	0	0	0	0	0	0	0
11/8/2024 15:19	23201	HIRU_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
11/8/2024 15:25	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 15:27	66504	SMAN_T2	0	0	0	0	0	0	-0.4	-0.51	0	0	0	0	0	0
11/8/2024 15:27	66502	SMAN_T2	4	2	-2	0.28	0.15	-0.13	0	0	0	0	0	0	0	0
11/8/2024 15:27	67106	SPRI_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
11/8/2024 15:28	67106	SPRI_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
11/8/2024 15:29	44502	HAMI_T2	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
11/8/2024 15:29	44505	HAMI_T2	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
11/8/2024 15:32	44502	HAMI_T2	1	1	0	3.2	3.5	0.3	0	0	0	0	0	0	0	0
11/8/2024 15:32	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 15:32	46101	MACI_T2	0	0	0	0	0	0	1.03	1.12	0	0	0	0	0	0
11/8/2024 15:33	67503	WEWI_T2	1	1	0	9	9	0	0	0	0	0	0	0	0	0
11/8/2024 15:33	44505	HAMI_T2	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
11/8/2024 15:33	67502	WEWI_T2	49	270	221	0.16	0.29	0.13	-0.4	-0.43	0	0	0	0	0	0
11/8/2024 15:33	44502	HAMI_T2	1	1	0	3.2	3.5	0.3	0	0	0	0	0	0	0	0
11/8/2024 15:36	10101	ALLE_T3	1	2	1	5.5	3.9	-1.6	0	0	0	0	0	0	0	0
11/8/2024 15:36	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 15:38	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 15:38	10101	ALLE_T3	1	2	1	5.5	3.9	-1.6	0	0	0	0	0	0	0	0
11/8/2024 15:45	17803	GILB_T2	32	51	19	0.21	0.26	0.05	0	0	0	0	0	0	0	0
11/8/2024 15:45	17805	GILB_T2	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
11/8/2024 15:50	10903	COOP_T2	112	111	-1	0.53	0.47	-0.06	0	0	0	0	0	0	0	0
11/8/2024 15:52	17803	GILB_T2	32	51	19	0.21	0.26	0.05	0	0	0	0	0	0	0	0
11/8/2024 15:52	17805	GILB_T2	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
11/8/2024 15:54	57401	SPAN_T1	2	2	0	0.8	0.7	-0.1	-0.88	-0.86	1	1	0	600	600	0
11/8/2024 15:54	57403	SPAN_T1	14	12	-2	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
11/8/2024 15:55	57401	SPAN_T1	2	2	0	0.8	0.7	-0.1	-0.88	-0.86	1	1	0	600	600	0
11/8/2024 15:55	57403	SPAN_T1	14	12	-2	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
11/8/2024 15:58	10702	CATA_T2	1	1	0	0.5	0.5	0	-0.9	-0.89	0	0	0	0	0	0
11/8/2024 16:01	10705	CATA_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
11/8/2024 16:01	10702	CATA_T2	1	1	0	0.5	0.7	0.2	-0.9	-0.89	0	0	0	0	0	0
11/8/2024 16:02	10702	CATA_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
11/8/2024 16:02	10705	CATA_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
11/8/2024 16:07	24801	VALM_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
11/8/2024 16:09	10901	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 16:09	10903	COOP_T2	111	108	-3	0.43	0.49	0.06	0	0	0	0	0	0	0	0
11/8/2024 16:10	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 16:17	67401	WAKE_T2	15	1	-14	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/8/2024 16:17	67402	WAKE_T2	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
11/8/2024 16:19	44503	HAMI_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
11/8/2024 16:19	57505	LAWN_T3	65	49	-16	0.18	0.15	-0.03	0.5	0.5	0	0	0	0	0	0
11/8/2024 16:19	44502	HAMI_T2	1	1	0	3.5	3.2	-0.3	0	0	0	0	0	0	0	0
11/8/2024 16:20	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 16:21	59003	MIFF_T1	1	1	0	0.2	0.3	0.1	0.61	0.83	0	0	0	0	0	0
11/8/2024 16:21	59002	MIFF_T1	6	6	0	0.8	0.83	0.03	0	0	0	0	0	0	0	0
11/8/2024 16:35	46602	LACR_T1	16	23	7	0.15	0.21	0.06	-1.04	-1.1	0	0	0	0	0	0
11/8/2024 16:36	60301	TWVA_T2	0	0	0	0	0	0	-3.36	-3.35	2	2	0	1800	1800	0
11/8/2024 16:41	57403	SPAN_T1	5	3	-2	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
11/8/2024 16:41	57401	SPAN_T1	2	2	0	0.6	0.6	0	-0.94	-0.95	1	1	0	600	600	0
11/8/2024 17:09	67503	WEWI_T2	1	1	0	8	7.7	-0.3	-0.49	-0.44	0	0	0	0	0	0
11/8/2024 17:51	67503	WEWI_T2	1	1	0	7.4	7.9	0.5	-0.45	-0.48	0	0	0	0	0	0
11/8/2024 18:48	40502	CRES_T2	58	61	3	0.29	0.33	0.04	-0.52	-0.51	0	0	0	0	0	0
11/8/2024 18:48	40501	CRES_T2	7	8	1	0.23	0.26	0.03	0	0	0	0	0	0	0	0
11/8/2024 18:49	15203	SFAR_T2	0	0	0	0	0	0	-1.38	-1.38	0	0	0	0	0	0
11/8/2024 18:49	23201	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
11/8/2024 18:50	17804	GILB_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/8/2024 18:50	63501	HEID_TBK1-2	3	32	29	0.8	0.29	-0.51	0.4	0.41	0	0	0	0	0	0
11/8/2024 18:50	23202	HIRU_T2	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
11/8/2024 18:50	40502	CRES_T2	58	61	3	0.29	0.33	0.04	-0.52	-0.51	0	0	0	0	0	0
11/8/2024 18:50	17803	GILB_T2	2	5	3	0.1	0.22	0.12	0	0	0	0	0	0	0	0
11/8/2024 18:50	15702	TANN_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
11/8/2024 18:50	17805	GILB_T2	0	1	1	0	0	0	-0.18	-0.22	0	0	0	0	0	0
11/8/2024 18:50	15603	NSTR_T2	0	2	2	0	0.15	0.15	-0.63	-0.64	0	0	0	0	0	0
11/8/2024 18:50	15703	TANN_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
11/8/2024 18:50	40501	CRES_T2	7	8	1	0.23	0.26	0.03	0	0	0	0	0	0	0	0
11/8/2024 18:52	17804	GILB_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/8/2024 18:52	17805	GILB_T2	0	1	1	0	0	0	-0.22	-0.21	0	0	0	0	0	0
11/8/2024 18:52	15203	SFAR_T2	0	0	0	0	0	0	-1.38	-1.38	0	0	0	0	0	0
11/8/2024 18:52	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 18:52	10101	ALLE_T3	1	2	1	5.6	4	-1.6	0	0	0	0	0	0	0	0
11/8/2024 18:52	46602	LACR_T1	19	28	9	0.24	0.26	0.02	-1.05	-1.12	0	0	0	0	0	0
11/8/2024 18:52	57401	SPAN_T1	2	3	1	0.75	0.8	0.05	-1.06	-1.06	1	1	0	600	600	0
11/8/2024 18:52	17803	GILB_T2	2	5	3	0.1	0.22	0.12	0	0	0	0	0	0	0	0
11/8/2024 18:52	57403	SPAN_T1	20	28	8	0.22	0.23	0.01	0	0	0	0	0	0	0	0
11/8/2024 18:53	10702	CATA_T2	0	1	1	0	0.4	0.4	-0.93	-0.93	0	0	0	0	0	0
11/8/2024 18:53	45702	LIND_T2	1	1	0	1.5	1.6	0.1	-0.66	-0.69	0	0	0	0	0	0
11/8/2024 18:53	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 18:53	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 18:54	10702	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/8/2024 18:54	16101	BING_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
11/8/2024 18:54	42701	AUGU_T1	1	1	0	0.3	0.3	0	0	0	2	2	0	1800	1800	0
11/8/2024 18:54	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 18:54	40501	CRES_T2	7	8	1	0.23	0.26	0.03	0	0	0	0	0	0	0	0
11/8/2024 18:54	10101	ALLE_T3	1	2	1	5.6	4	-1.6	0	0	0	0	0	0	0	0
11/8/2024 18:54	40502	CRES_T2	58	61	3	0.29	0.33	0.04	-0.51	-0.5	0	0	0	0	0	0
11/8/2024 18:54	10705	CATA_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
11/8/2024 18:54	29402	BELT_T1	1	1	0	6.9	7	0.1	0	0	0	0	0	0	0	0
11/8/2024 18:55	16101	BING_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
11/8/2024 18:55	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
11/8/2024 18:55	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 18:55	10905	OHII_T2	1	1	0	7.3	7.3	0	-1.5	-1.48	1	1	0	600	600	0
11/8/2024 18:55	14401	SSLA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
11/8/2024 18:55	14801	TREI_T2	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
11/8/2024 18:55	10903	COOP_T2	1	1	0	0.1	0.1	0	-0.49	-0.47	1	1	0	600	600	0
11/8/2024 18:55	25402	LAHA_T2	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
11/8/2024 18:56	10702	CATA_T2	0	1	1	0	0.4	0.4	-0.93	-0.93	0	0	0	0	0	0
11/8/2024 18:56	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 18:56	23203	HIRU_T2	0	0	0	0	0	0	0.1	0.16	0	0	0	0	0	0
11/8/2024 18:56	21206	ECAR_T2	1	1	0	7.5	7.6	0.1	0.11	0.12	0	0	0	0	0	0
11/8/2024 18:56	44503	HAMI_T2	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
11/8/2024 18:56	44502	HAMI_T2	1	1	0	3.2	3.5	0.3	0	0	0	0	0	0	0	0
11/8/2024 18:56	14801	TREI_T2	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
11/8/2024 18:56	14802	TREI_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
11/8/2024 18:56	46101	MACI_T2	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
11/8/2024 18:56	17802	GILB_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
11/8/2024 18:56	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 18:56	67503	WEWI_T2	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
11/8/2024 18:56	67502	WEWI_T2	0	0	0	0	0	0	-0.56	-0.5	0	0	0	0	0	0
11/8/2024 18:56	13303	ORVI_T1	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
11/8/2024 18:56	24202	PROV_T4	0	28	28	0	0.12	0.12	-0.54	-0.58	1	1	0	1200	1200	0
11/8/2024 18:56	10101	ALLE_T3	1	2	1	5.6	4	-1.6	0	0	0	0	0	0	0	0
11/8/2024 18:57	48901	FOSP_T2	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
11/8/2024 18:57	15203	SFAR_T2	0	0	0	0	0	0	-1.38	-1.38	0	0	0	0	0	0
11/8/2024 18:57	26301	OLFO_T2	0	0	0	0	0	0	0.35	0.34	2	2	0	2400	2400	0
11/8/2024 18:57	20802	LOPO_T1	1	1	0	0.2	0.3	0.1	-0.54	-0.54	1	1	0	600	600	0
11/8/2024 18:57	66504	SMAN_T2	0	0	0	0	0	0	-1.02	-1.07	0	0	0	0	0	0
11/8/2024 18:57	64204	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
11/8/2024 18:57	66505	SMAN_T2	3	3	0	0.77	1	0.23	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/8/2024 18:57	67001	STHI_T2	61	191	130	0.11	0.11	0	0	0	0	0	0	0	0	0
11/8/2024 18:57	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 18:57	64202	KINZ_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/8/2024 18:57	10901	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 18:57	65001	NEFF_T2	0	4	4	0	0.2	0.2	0.13	0.08	0	0	0	0	0	0
11/8/2024 18:57	67002	STHI_T2	1	4	3	0.1	0.1	0	0.58	0.52	0	0	0	0	0	0
11/8/2024 18:57	65003	NEFF_T2	90	116	26	0.17	0.22	0.05	0	0	0	0	0	0	0	0
11/8/2024 18:57	64201	KINZ_T1	0	1	1	0	0.5	0.5	0.61	0.62	0	0	0	0	0	0
11/8/2024 18:57	40502	CRES_T2	58	61	3	0.29	0.33	0.04	-0.51	-0.5	0	0	0	0	0	0
11/8/2024 18:57	40501	CRES_T2	7	8	1	0.23	0.26	0.03	0	0	0	0	0	0	0	0
11/8/2024 18:57	10903	COOP_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/8/2024 18:58	65207	PRIN_T4	1	5	4	1	0.28	-0.72	0	0	1	1	0	1200	1200	0
11/8/2024 18:58	15203	SFAR_T2	0	0	0	0	0	0	-1.38	-1.38	0	0	0	0	0	0
11/8/2024 18:58	13101	NHAM_T1	0	0	0	0	0	0	-2.76	-2.82	2	2	0	2400	2400	0
11/8/2024 18:58	66505	SMAN_T2	3	3	0	0.77	1	0.23	0	0	0	0	0	0	0	0
11/8/2024 18:58	66502	SMAN_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
11/8/2024 18:58	43302	WATS_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/8/2024 18:58	45702	LIND_T2	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
11/8/2024 18:58	63501	HEID_T8K1-2	3	32	29	0.8	0.29	-0.51	0.41	0.33	0	0	0	0	0	0
11/8/2024 18:58	60301	TWVA_T2	0	0	0	0	0	0	-2.78	-2.78	1	1	0	1200	1200	0
11/8/2024 18:58	67001	STHI_T2	61	191	130	0.11	0.11	0	0	0	0	0	0	0	0	0
11/8/2024 18:58	45302	WBER_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
11/8/2024 18:58	67103	SPRI_T1	0	0	0	0	0	0	-1.2	-1.29	0	0	0	0	0	0
11/8/2024 18:58	40601	PIGR_T1	36	80	44	0.13	0.15	0.02	0	0	0	0	0	0	0	0
11/8/2024 18:58	14802	TREI_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
11/8/2024 18:58	45701	LIND_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
11/8/2024 18:58	40501	CRES_T2	7	8	1	0.23	0.26	0.03	0	0	0	0	0	0	0	0
11/8/2024 18:58	48901	FOSP_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
11/8/2024 18:58	61506	EPET_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
11/8/2024 18:58	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 18:58	67002	STHI_T2	1	4	3	0.1	0.1	0	1.75	1.57	0	0	0	0	0	0
11/8/2024 18:58	45303	WBER_T2	9	9	0	1.66	1.67	0.01	0	0	0	0	0	0	0	0
11/8/2024 18:58	40502	CRES_T2	58	61	3	0.29	0.33	0.04	-1.53	-1.5	0	0	0	0	0	0
11/8/2024 18:58	67502	WEWI_T2	0	0	0	0	0	0	-0.56	-0.5	0	0	0	0	0	0
11/8/2024 18:58	43301	WATS_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
11/8/2024 18:58	40602	PIGR_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
11/8/2024 18:58	43304	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/8/2024 18:58	12001	HATF_T1	0	0	0	0	0	0	0.75	0.85	1	1	0	600	600	0
11/8/2024 18:58	52502	PROG_T2	0	0	0	0	0	0	-0.76	-0.75	1	1	0	900	900	0
11/8/2024 18:58	67503	WEWI_T2	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
11/8/2024 18:58	67303	WYOM_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
11/8/2024 18:59	67603	WARW_T1	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
11/8/2024 18:59	60803	BUCK_T1	10	14	4	0.12	0.29	0.17	0	0	0	0	0	0	0	0
11/8/2024 18:59	60801	BUCK_T1	29	37	8	0.2	0.25	0.05	-0.24	-0.25	0	0	0	0	0	0
11/8/2024 18:59	58803	COCO_T1	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
11/8/2024 18:59	65001	NEFF_T2	0	4	4	0	0.2	0.2	0.13	0.08	0	0	0	0	0	0
11/8/2024 18:59	17805	GILB_T2	0	1	1	0	0	0	-0.22	-0.21	0	0	0	0	0	0
11/8/2024 18:59	15103	UPHA_T2	0	1	1	0	0	0	0.3	0.29	0	0	0	0	0	0
11/8/2024 18:59	67401	WAKE_T2	3	9	6	0.13	0.12	-0.01	-1.19	-1.2	0	0	0	0	0	0
11/8/2024 18:59	17803	GILB_T2	2	5	3	0.1	0.22	0.12	0	0	0	0	0	0	0	0
11/8/2024 18:59	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 18:59	48901	FOSP_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
11/8/2024 18:59	65003	NEFF_T2	90	116	26	0.17	0.22	0.05	0	0	0	0	0	0	0	0
11/8/2024 18:59	52502	PROG_T2	0	0	0	0	0	0	-0.76	-0.75	1	1	0	900	900	0
11/8/2024 18:59	10101	ALLE_T3	1	2	1	5.6	4	-1.6	0	0	0	0	0	0	0	0
11/8/2024 18:59	67605	WARW_T1	21	35	14	0.46	0.46	0	0	0	0	0	0	0	0	0
11/8/2024 18:59	15204	SFAR_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
11/8/2024 18:59	55001	NEWP_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/8/2024 18:59	65602	QVIL_T2	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
11/8/2024 18:59	17804	GILB_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/8/2024 18:59	55002	NEWP_T1	6	6	0	0.88	0.87	-0.01	-0.29	-0.27	0	0	0	0	0	0
11/8/2024 18:59	46602	LACR_T1	19	28	9	0.24	0.26	0.02	-1.05	-1.12	0	0	0	0	0	0
11/8/2024 18:59	15203	SFAR_T2	0	0	0	0	0	0	-1.38	-1.38	0	0	0	0	0	0
11/8/2024 19:00	40701	FFLD_T1	79	79	0	0.7	0.77	0.07	0	0	0	0	0	0	0	0
11/8/2024 19:00	48901	FOSP_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
11/8/2024 19:00	22602	KIMB_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
11/8/2024 19:00	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
11/8/2024 19:00	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
11/8/2024 19:00	63803	HEMP_T1	0	0	0	0	0	0	1.41	1.38	0	0	0	0	0	0
11/8/2024 19:00	10702	CATA_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/8/2024 19:00	10705	CATA_T2	0	0	0	0	0	0	-0.13	-0.09	0	0	0	0	0	0
11/8/2024 19:00	67502	WEWI_T2	0	0	0	0	0	0	-0.56	-0.5	0	0	0	0	0	0
11/8/2024 19:00	48902	FOSP_T2	0	0	0	0	0	0	-0.16	-0.12	0	0	0	0	0	0
11/8/2024 19:00	54502	ENOL_T2	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
11/8/2024 19:00	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.12	0	0	0	0	0	0
11/8/2024 19:00	15001	BLMO_T1	3	4	1	0.13	0.28	0.15	0	0	0	0	0	0	0	0
11/8/2024 19:00	67503	WEWI_T2	1	1	0	8.2	8.1	-0.1	0	0	0	0	0	0	0	0
11/8/2024 19:00	10903	COOP_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/8/2024 19:00	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/8/2024 19:00	63501	HEID_T8K1-2	2	39	37	1.3	0.44	-0.86	0.41	0.33	0	0	0	0	0	0
11/8/2024 19:00	40703	FFLD_T1	4	4	0	0.88	0.98	0.1	0	0	0	0	0	0	0	0
11/8/2024 19:00	40702	FFLD_T1	192	207	15	0.55	0.65	0.1	0	0	0	0	0	0	0	0
11/8/2024 19:00	67203	TEHI_T1	0	0	0	0	0	0	4.47	4.38	2	2	0	1800	1800	0
11/8/2024 19:00	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 19:00	54602	SUMM_T2	15	16	1	0.29	0.5	0.21	0	0	0	0	0	0	0	0
11/8/2024 19:00	57403	SPAN_T1	27	26	-1	0.23	0.26	0.03	0	0	0	0	0	0	0	0
11/8/2024 19:00	57401	SPAN_T1	2	3	1	0.8	0.75	-0.05	-2.13	-2.11	2	2	0	1200	1200	0
11/8/2024 19:00	40501	CRES_T2	8	8	0	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
11/8/2024 19:00	54504	ENOL_T2	0	0	0	0	0	0	-1.13	-1.14	1	1	0	600	600	0
11/8/2024 19:00	63601	LETO_T1	2	4	2	0.15	0.43	0.28	1.18	0.92	1	1	0	900	900	0
11/8/2024 19:00	40502	CRES_T2	60	47	-13	0.33	0.26	-0.07	-1.53	-1.5	0	0	0	0	0	0
11/8/2024 19:00	63804	HEMP_T1	1	1	0	6.2	5.8	-0.4	0	0	0	0	0	0	0	0
11/8/2024 19:00	67401	WAKE_T2	3	16	13	0.1	0.18	0.08	0	0	0	0	0	0	0	0
11/8/2024 19:00	54601	SUMM_T2	12	12	0	0.5	0.78	0.28	-3.12	-3.14	2	2	0	2100	2100	0
11/8/2024 19:00	57201	ROSS_T1	0	0	0	0	0	0	-0.52	-0.45	0	0	0	0	0	0
11/8/2024 19:01	54506	ENOL_T2	0	0	0	0	0	0	0.75	0.61	1	0	-1	600	0	-600
11/8/2024 19:01	66505	SMAN_T2	3	3	0	0.7	1.13	0.43	0	0	0	0	0	0	0	0
11/8/2024 19:01	57505	LAWN_T3	6	53	47	0.33	0.17	-0.16	0.5	0.47	0	0	0	0	0	0
11/8/2024 19:01	66303	MCGO_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
11/8/2024 19:01	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
11/8/2024 19:01	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/8/2024 19:01	45501	DERR_T2	0	0	0	0	0	0	-0.01	-0.02	2	2	0	1800	1800	0
11/8/2024 19:01	64704	LITI_T1	0	0	0	0	0	0	0.3	0.18	1	1	0	600	600	0
11/8/2024 19:01	14404	SSLA_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
11/8/2024 19:01	47203	FAXO_T2	1	1	0	0.2	0.2	0	-0.41	-0.41	0	0	0	0	0	0
11/8/2024 19:01	44903	SCOT_T1	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
11/8/2024 19:01	17805	GILB_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
11/8/2024 19:01	64305	LINC_T1	0	0	0	0	0	0	-0.53	-0.62	0	0	0	0	0	0
11/8/2024 19:01	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
11/8/2024 19:01	15203	SFAR_T2	0	0	0	0	0	0	-2.76	-2.76	0	0	0	0	0	0
11/8/2024 19:01	67503	WEWI_T2	1	1	0	8.2	8.1	-0.1	0	0	0	0	0	0	0	0
11/8/2024 19:01	67502	WEWI_T2	0	0	0	0	0	0	-0.56	-0.5	0	0	0	0	0	0
11/8/2024 19:01	40501	CRES_T2	8	8	0	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
11/8/2024 19:01	10705	CATA_T2	0	0	0	0	0	0	-0.19	-0.14	0	0	0	0	0	0
11/8/2024 19:01	43802	SWIL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/8/2024 19:01	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	900	900	0
11/8/2024 19:01	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/8/2024 19:01	12002	HATF_T1	0	0	0	0	0	0	-0.2	-0.18	1	1	0	1200	1200	0
11/8/2024 19:01	43801	SWIL_T1	91	112	21	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
11/8/2024 19:01	40502	CRES_T2	60	47	-13	0.33	0.26	-0.07	-0.51	-0.5	0	0	0	0	0	0
11/8/2024 19:01	17804	GILB_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/8/2024 19:01	15703	TANN_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
11/8/2024 19:01	66504	SMAN_T2	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
11/8/2024 19:01	15702	TANN_T2	0	0	0	0	0	0	-0.49	-0.47	0	0	0	0	0	0
11/8/2024 19:01	10702	CATA_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/8/2024 19:01	54502	ENOL_T2	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
11/8/2024 19:01	66301	MCGO_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
11/8/2024 19:01	17803	GILB_T2	0	17	17	0	0.22	0.22	0	0	0	0	0	0	0	0
11/8/2024 19:02	65502	MOJO_T2	41	293	252	0.1	0.24	0.14	0	0	0	0	0	0	0	0
11/8/2024 19:02	24702	FLND_T2	0	0	0	0	0	0	-0.11	-0.09	1	1	0	1200	1200	0
11/8/2024 19:02	58003	WCAR_T1	1	1	0	1.6	1.2	-0.4	-0.18	0.46	1	0	-1	600	0	-600
11/8/2024 19:02	17803	GILB_T2	0	17	17	0	0.22	0.22	0	0	0	0	0	0	0	0
11/8/2024 19:02	66502	SMAN_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
11/8/2024 19:02	40501	CRES_T2	8	8	0	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
11/8/2024 19:02	63601	LETO_T1	2	4	2	0.15	0.43	0.28	0	0	0	0	0	0	0	0
11/8/2024 19:02	17804	GILB_T2	0	2	2	0	0.1	0.1	-0.63	-0.61	0	0	0	0	0	0
11/8/2024 19:02	49804	UNIV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/8/2024 19:02	40101	HUNT_T2	0	1	1	0	0	0	-0.8	-0.82	0	0	0	0	0	0
11/8/2024 19:02	49803	UNIV_T1	1	1	0	5.8	5.3	-0.5	-1.16	-1.19	0	0	0	0	0	0
11/8/2024 19:02	42701	AUGU_T1	1	1	0	0.3	0.3	0	0	0	2	2	0	1800	1800	0
11/8/2024 19:02	10801	OHHI_T1	0	0	0	0	0	0	-1.53	-1.52	2	2	0	1500	1500	0
11/8/2024 19:02	14204	EALL_T2	0	0	0	0	0	0	-0.16	-0.23	0	0	0	0	0	0
11/8/2024 19:02	66505	SMAN_T2	3	3	0	0.7	1.13	0.43	0	0	0	0	0	0	0	0
11/8/2024 19:02	65503	MOJO_T2	0	104	104	0	0.14	0.14	-0.41	-0.43	0	0	0	0	0	0
11/8/2024 19:02	46803	HEPB_T2	17	25	8	0.18	0.19	0.01	0	0	0	0	0	0	0	0
11/8/2024 19:02	63602	LETO_T1	0	0	0	0	0	0	-0.57	-0.53	0	0	0	0	0	0
11/8/2024 19:02	54601	SUMM_T2	12	12	0	0.5	0.78	0.28	-3.12	-3.14	2	2	0	2100	2100	0
11/8/2024 19:02	46801	HEPB_T2	27	44	17	0.34	0.32	-0.02	0.5	0.48	0	0	0	0	0	0
11/8/2024 19:02	26002	WDAM_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/8/2024 19:02	46602	LACR_T1	21	28	7	0.24	0.27	0.03	-1.05	-1.12	0	0	0	0	0	0
11/8/2024 19:02	54602	SUMM_T2	15	16	1	0.29	0.5	0.21	0	0	0	0	0	0	0	0
11/8/2024 19:02	58001	WCAR_T1	4	4	0	1.03	0.93	-0.1	0	0	0	0	0	0	0	0
11/8/2024 19:02	40502	CRES_T2	60	47	-13	0.33	0.26	-0.07	-0.51	-0.5	0	0	0	0	0	0
11/8/2024 19:02	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 19:02	67106	SPRI_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
11/8/2024 19:03	67401	WAKE_T2	3	16	13	0.1	0.18	0.08	-1.19	-1.2	0	0	0	0	0	0
11/8/2024 19:03	60803	BUCK_T1	9	17	8	0.18	0.39	0.21	0	0	0	0	0	0	0	0
11/8/2024 19:03	44505	HAMI_T2	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
11/8/2024 19:03	67502	WEWI_T2	0	0	0	0	0	0	-0.56	-0.5	0	0	0	0	0	0
11/8/2024 19:03	50625	CCTY_T2	5	5	0	2.6	2.6	0	0	0	0	0	0	0	0	0
11/8/2024 19:03	50623	CCTY_T2	5	5	0	6.34	6.18	-0.16	0	0	0	0	0	0	0	0
11/8/2024 19:03	40501	CRES_T2	8	8	0	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
11/8/2024 19:03	58001	WCAR_T1	4	4	0	1.03	0.93	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/8/2024 19:03	48901	FOSP_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
11/8/2024 19:03	66502	SMAN_T2	0	0	0	0	0	0	-0.02	-0.07	0	0	0	0	0	0
11/8/2024 19:03	55002	NEWP_T1	5	6	1	1	0.82	-0.18	0	0	0	0	0	0	0	0
11/8/2024 19:03	66504	SMAN_T2	0	0	0	0	0	0	-1.02	-1.07	0	0	0	0	0	0
11/8/2024 19:03	40502	CRES_T2	60	47	-13	0.33	0.26	-0.07	-0.51	-0.5	0	0	0	0	0	0
11/8/2024 19:03	65601	QVIL_T2	0	0	0	0	0	0	-0.26	-0.18	0	0	0	0	0	0
11/8/2024 19:03	54603	SUMM_T2	0	0	0	0	0	0	-0.41	-0.45	1	1	0	900	900	0
11/8/2024 19:03	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
11/8/2024 19:03	50624	CCTY_T2	2	2	0	5.8	5.65	-0.15	0	0	0	0	0	0	0	0
11/8/2024 19:03	66505	SMAN_T2	3	3	0	0.7	1.13	0.43	0	0	0	0	0	0	0	0
11/8/2024 19:03	11202	ELHE_T2	0	0	0	0	0	0	0.42	0.4	1	1	0	1200	1200	0
11/8/2024 19:03	54601	SUMM_T2	12	12	0	0.5	0.78	0.28	-6.24	-6.28	4	4	0	4200	4200	0
11/8/2024 19:03	58003	WCAR_T1	1	1	0	1.6	1.2	-0.4	-0.18	0.46	1	0	-1	600	0	-600
11/8/2024 19:03	24101	EHAZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/8/2024 19:03	64904	MILL_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
11/8/2024 19:03	67106	SPRI_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
11/8/2024 19:03	24104	EHAZ_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	1200	1200	0
11/8/2024 19:03	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 19:03	55001	NEWP_T1	1	1	0	0.2	0.5	0.3	-0.21	-0.19	0	0	0	0	0	0
11/8/2024 19:03	54602	SUMM_T2	15	16	1	0.29	0.5	0.21	0	0	0	0	0	0	0	0
11/8/2024 19:03	26301	OLFO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 19:03	67501	WEWI_T1	0	0	0	0	0	0	-0.67	-0.61	0	0	0	0	0	0
11/8/2024 19:03	60801	BUCK_T1	33	43	10	0.23	0.29	0.06	-0.24	-0.25	0	0	0	0	0	0
11/8/2024 19:03	23901	EFMO_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
11/8/2024 19:03	44502	HAMI_T2	1	1	0	3.1	3.5	0.4	0	0	0	0	0	0	0	0
11/8/2024 19:03	67503	WEWI_T2	1	1	0	8.2	8.1	-0.1	0	0	0	0	0	0	0	0
11/8/2024 19:03	24105	EHAZ_T1	4	4	0	6.28	6.1	-0.18	0	0	0	0	0	0	0	0
11/8/2024 19:03	57203	ROSS_T1	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
11/8/2024 19:04	15703	TANN_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
11/8/2024 19:04	60801	BUCK_T1	33	43	10	0.23	0.29	0.06	0	0	0	0	0	0	0	0
11/8/2024 19:04	64902	MILL_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
11/8/2024 19:04	45501	DERR_T2	0	0	0	0	0	0	-0.01	-0.02	2	2	0	1800	1800	0
11/8/2024 19:04	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 19:04	66303	MCGO_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
11/8/2024 19:04	40501	CRES_T2	8	8	0	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
11/8/2024 19:04	57401	SPAN_T1	2	3	1	0.8	0.75	-0.05	-1.06	-1.06	1	1	0	600	600	0
11/8/2024 19:04	60803	BUCK_T1	9	17	8	0.18	0.39	0.21	0	0	0	0	0	0	0	0
11/8/2024 19:04	63804	HEMP_T1	1	1	0	6.2	5.8	-0.4	0	0	0	0	0	0	0	0
11/8/2024 19:04	41301	FISH_T1	2	2	0	1.35	1.35	0	0.32	0.32	0	0	0	0	0	0
11/8/2024 19:04	21901	HUMB_T1	0	0	0	0	0	0	-2.31	-2.36	0	0	0	0	0	0
11/8/2024 19:04	40602	PIGR_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
11/8/2024 19:04	43801	SWIL_T1	91	112	21	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
11/8/2024 19:04	57403	SPAN_T1	27	26	-1	0.23	0.26	0.03	0	0	0	0	0	0	0	0
11/8/2024 19:04	45702	LIND_T2	1	1	0	1.4	1.8	0.4	-0.66	-0.69	0	0	0	0	0	0
11/8/2024 19:04	63803	HEMP_T1	0	0	0	0	0	0	0.7	0.69	0	0	0	0	0	0
11/8/2024 19:04	40502	CRES_T2	60	47	-13	0.33	0.26	-0.07	-0.51	-0.5	0	0	0	0	0	0
11/8/2024 19:04	67605	WARW_T1	22	36	14	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
11/8/2024 19:04	66502	SMAN_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
11/8/2024 19:04	66504	SMAN_T2	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
11/8/2024 19:04	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 19:04	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 19:04	44505	HAMI_T2	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
11/8/2024 19:04	66302	MCGO_T2	0	0	0	0	0	0	-1.06	-1.07	0	0	0	0	0	0
11/8/2024 19:04	66505	SMAN_T2	3	3	0	0.7	1.13	0.43	0	0	0	0	0	0	0	0
11/8/2024 19:04	15702	TANN_T2	0	0	0	0	0	0	-0.49	-0.47	0	0	0	0	0	0
11/8/2024 19:04	44502	HAMI_T2	1	1	0	3.1	3.5	0.4	0	0	0	0	0	0	0	0
11/8/2024 19:04	43802	SWIL_T1	1	1	0	0.1	0.1	0	-0.25	-0.28	1	1	0	600	600	0
11/8/2024 19:04	40601	PIGR_T1	62	116	54	0.15	0.17	0.02	-0.19	-0.16	0	0	0	0	0	0
11/8/2024 19:05	40501	CRES_T2	8	8	0	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
11/8/2024 19:05	66502	SMAN_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
11/8/2024 19:05	46506	LOHA_T1	3	3	0	4.93	4.53	-0.4	0	0	0	0	0	0	0	0
11/8/2024 19:05	10705	CATA_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
11/8/2024 19:05	65202	PRIN_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
11/8/2024 19:05	40502	CRES_T2	60	47	-13	0.33	0.26	-0.07	-1.02	-1	0	0	0	0	0	0
11/8/2024 19:05	10702	CATA_T2	1	1	0	0.4	0.4	0	-0.93	-0.93	0	0	0	0	0	0
11/8/2024 19:05	10801	CHHI_T1	0	0	0	0	0	0	-1.53	-1.52	2	2	0	1500	1500	0
11/8/2024 19:05	57201	ROSS_T1	0	0	0	0	0	0	-0.52	-0.45	0	0	0	0	0	0
11/8/2024 19:05	58402	MORO_T1	1	0	-1	0.5	0	-0.5	0.51	0.46	1	1	0	900	900	0
11/8/2024 19:05	46504	LOHA_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
11/8/2024 19:05	65205	PRIN_T1	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
11/8/2024 19:05	65503	MOJO_T2	0	104	104	0	0.14	0.14	0	0	0	0	0	0	0	0
11/8/2024 19:05	43202	MVIL_T2	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
11/8/2024 19:05	66505	SMAN_T2	3	3	0	0.7	1.13	0.43	0	-0.02	1	1	0	900	900	0
11/8/2024 19:05	46502	LOHA_T1	0	0	0	0	0	0	-0.09	-0.04	0	0	0	0	0	0
11/8/2024 19:05	65502	MOJO_T2	41	293	252	0.1	0.24	0.14	0	0	0	0	0	0	0	0
11/8/2024 19:06	57101	SPHI_T2	6	6	0	0.83	1	0.17	0	0	0	0	0	0	0	0
11/8/2024 19:06	43302	WATS_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
11/8/2024 19:06	46801	HEPB_T2	27	44	17	0.34	0.32	-0.02	0.5	0.48	0	0	0	0	0	0
11/8/2024 19:06	58803	OCID_T1	1	1	0	2.7	3	0.3	0	0	0	0	0	0	0	0
11/8/2024 19:06	66505	SMAN_T2	3	3	0	0.7	1.13	0.43	0	0	0	0	0	0	0	0
11/8/2024 19:06	40502	CRES_T2	60	47	-13	0.33	0.26	-0.07	-1.02	-1	0	0	0	0	0	0
11/8/2024 19:06	63801	HEMP_T1	0	0	0	0	0	0	-0.22	-0.1	0	0	0	0	0	0
11/8/2024 19:06	12001	HATF_T1	0	0	0	0	0	0	0.85	0.87	1	1	0	600	600	0
11/8/2024 19:06	40601	PIGR_T1	62	116	54	0.15	0.17	0.02	-0.19	-0.16	0	0	0	0	0	0
11/8/2024 19:06	40501	CRES_T2	8	8	0	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
11/8/2024 19:06	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 19:06	42701	AUGU_T1	1	1	0	0.3	0.3	0	0	0	2	2	0	1800	1800	0
11/8/2024 19:06	40602	PIGR_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
11/8/2024 19:06	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
11/8/2024 19:06	24702	FLND_T2	0	0	0	0	0	0	-0.11	-0.09	1	1	0	1200	1200	0
11/8/2024 19:06	57104	SPHI_T2	2	2	0	3.5	1.2	-2.3	-0.6	-0.65	0	0	0	0	0	0
11/8/2024 19:06	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
11/8/2024 19:06	46803	HEPB_T2	17	25	8	0.18	0.19	0.01	0	0	0	0	0	0	0	0
11/8/2024 19:06	63501	HEID_TBK1-2	2	39	37	1.3	0.44	-0.86	0.33	0.34	0	0	0	0	0	0
11/8/2024 19:06	64704	LITI_T1	0	0	0	0	0	0	0.18	0.24	1	1	0	600	600	0
11/8/2024 19:06	43304	WATS_T2	0	1	1	0	0	0	-0.56	-0.57	0	0	0	0	0	0
11/8/2024 19:06	57106	SPHI_T2	3	3	0	0.97	1.27	0.3	0	0	0	0	0	0	0	0
11/8/2024 19:06	67605	WARW_T1	22	36	14	0.48	0.45	-0.03	-1.24	-1.23	0	0	0	0	0	0
11/8/2024 19:06	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 19:06	63804	HEMP_T1	1	1	0	6.2	5.8	-0.4	0	0	0	0	0	0	0	0
11/8/2024 19:07	60801	BUCK_T1	33	43	10	0.23	0.29	0.06	-0.25	-0.24	0	0	0	0	0	0
11/8/2024 19:07	57401	SPAN_T1	2	3	1	0.8	0.75	-0.05	-1.06	-1.08	1	1	0	600	600	0
11/8/2024 19:07	44502	HAMI_T2	1	1	0	3.1	3.5	0.4	0	0	0	0	0	0	0	0
11/8/2024 19:07	43302	WATS_T2	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
11/8/2024 19:07	43304	WATS_T2	0	1	1	0	0	0	-0.57	-0.6	0	0	0	0	0	0
11/8/2024 19:07	14403	SSLA_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
11/8/2024 19:07	40501	CRES_T2	8	8	0	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
11/8/2024 19:07	48901	FOSP_T2	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
11/8/2024 19:07	60803	BUCK_T1	9	17	8	0.18	0.39	0.21	0	0	0	0	0	0	0	0
11/8/2024 19:07	66505	SMAN_T2	3	3	0	0.7	1.13	0.43	0	0	0	0	0	0	0	0
11/8/2024 19:07	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 19:07	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.14	0	0	0	0	0	0
11/8/2024 19:07	64101	REFR_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
11/8/2024 19:07	57403	SPAN_T1	27	26	-1	0.23	0.26	0.03	0	0	0	0	0	0	0	0
11/8/2024 19:07	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 19:07	40502	CRES_T2	60	47	-13	0.33	0.26	-0.07	-0.5	-0.53	0	0	0	0	0	0
11/8/2024 19:08	46506	LOHA_T1	3	3	0	4.93	4.53	-0.4	0	0	0	0	0	0	0	0
11/8/2024 19:08	12006	HATF_T1	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
11/8/2024 19:08	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
11/8/2024 19:08	67605	WARW_T1	22	36	14	0.48	0.45	-0.03	-1.24	-1.23	0	0	0	0	0	0
11/8/2024 19:08	67502	WEWI_T2	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
11/8/2024 19:08	58003	WCAR_T1	1	1	0	1.6	1.2	-0.4	0.46	0.46	0	0	0	0	0	0
11/8/2024 19:08	65001	NEFF_T2	3	4	1	0.1	0.2	0.1	0.08	0.14	0	0	0	0	0	0
11/8/2024 19:08	65003	NEFF_T2	112	111	-1	0.2	0.21	0.01	0	0	0	0	0	0	0	0
11/8/2024 19:08	42701	AUGU_T1	1	1	0	0.3	0.3	0	0	0	2	2	0	1800	1800	0
11/8/2024 19:08	46803	HEPB_T2	17	25	8	0.18	0.19	0.01	0	0	0	0	0	0	0	0
11/8/2024 19:08	57403	SPAN_T1	27	26	-1	0.23	0.26	0.03	0	0	0	0	0	0	0	0
11/8/2024 19:08	57401	SPAN_T1	2	3	1	0.8	0.75	-0.05	-1.06	-1.08	1	1	0	600	600	0
11/8/2024 19:08	10702	CATA_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/8/2024 19:08	10701	CATA_T2	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
11/8/2024 19:08	46504	LOHA_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
11/8/2024 19:08	60501	NMAN_T2	32	125	93	0.19	0.28	0.09	0	0	0	0	0	0	0	0
11/8/2024 19:08	46801	HEPB_T2	27	44	17	0.34	0.32	-0.02	0.48	0.49	0	0	0	0	0	0
11/8/2024 19:08	58001	WCAR_T1	4	4	0	1.03	0.93	-0.1	0	0	0	0	0	0	0	0
11/8/2024 19:08	67503	WEWI_T2	1	1	0	8.2	8.1	-0.1	0	0	0	0	0	0	0	0
11/8/2024 19:08	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
11/8/2024 19:08	60502	NMAN_T2	0	0	0	0	0	0	-0.54	-0.58	0	0	0	0	0	0
11/8/2024 19:09	57205	ROSS_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
11/8/2024 19:09	55001	NEWP_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/8/2024 19:09	52402	GRPA_T2	3	3	0	0.57	0.6	0.03	-0.92	-0.92	0	0	0	0	0	0
11/8/2024 19:09	58401	MORO_T1	0	0	0	0	0	0	-3.84	-3.72	3	3	0	1800	1800	0
11/8/2024 19:09	66505	SMAN_T2	3	3	0	0.7	1.13	0.43	0	0	0	0	0	0	0	0
11/8/2024 19:09	52404	GRPA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/8/2024 19:09	55002	NEWP_T1	5	6	1	1	0.82	-0.18	-0.27	-0.27	0	0	0	0	0	0
11/8/2024 19:09	65005	NEFF_T2	0	0	0	0	0	0	-0.13	-0.08	0	0	0	0	0	0
11/8/2024 19:09	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
11/8/2024 19:09	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 19:09	40602	PIGR_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
11/8/2024 19:09	58001	WCAR_T1	4	4	0	1.03	0.93	-0.1	0	0	0	0	0	0	0	0
11/8/2024 19:09	65003	NEFF_T2	112	111	-1	0.2	0.21	0.01	0	0	0	0	0	0	0	0
11/8/2024 19:09	40601	PIGR_T1	62	116	54	0.15	0.17	0.02	0	0	0	0	0	0	0	0
11/8/2024 19:09	59002	MIFF_T1	1	5	4	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/8/2024 19:09	67201	TEHI_T1	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
11/8/2024 19:09	59003	MIFF_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
11/8/2024 19:09	58003	WCAR_T1	1	1	0	1.6	1.2	-0.4	0.46	0.46	0	0	0	0	0	0
11/8/2024 19:09	58402	MORO_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/8/2024 19:09	65001	NEFF_T2	3	4	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/8/2024 19:10	40502	CRES_T2	60	47	-13	0.33	0.26	-0.07	-0.5	-0.53	0	0	0	0	0	0
11/8/2024 19:10	40501	CRES_T2	8	8	0	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
11/8/2024 19:10	58401	MORO_T1	0	0	0	0	0	0	-1.28	-1.24	1	1	0	600	600	0
11/8/2024 19:10	15001	BLMO_T1	3	4	1	0.13	0.28	0.15	0	0	0	0	0	0	0	0
11/8/2024 19:10	58402	MORO_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/8/2024 19:10	66301	MCGO_T2	0	0	0	0	0	0	-0.44	-0.48	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/8/2024 19:10	66303	MCGO_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
11/8/2024 19:10	13704	SCHN_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
11/8/2024 19:11	58401	MORO_T1	0	0	0	0	0	0	-1.28	-1.24	1	1	0	600	600	0
11/8/2024 19:11	58402	MORO_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/8/2024 19:11	63501	HEID_TBK1-2	2	39	37	1.3	0.44	-0.86	0.33	0.34	0	0	0	0	0	0
11/8/2024 19:11	59301	MCAL_T1	4	28	24	0.68	0.19	-0.49	-1.49	-1.5	0	0	0	0	0	0
11/8/2024 19:11	59302	MCAL_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/8/2024 19:11	67401	WAKE_T2	3	16	13	0.1	0.18	0.08	-1.2	-1.22	0	0	0	0	0	0
11/8/2024 19:11	49803	UNIV_T1	1	1	0	5.8	5.3	-0.5	-1.19	-1.2	0	0	0	0	0	0
11/8/2024 19:11	60803	BUCK_T1	9	17	8	0.18	0.39	0.21	0	0	0	0	0	0	0	0
11/8/2024 19:11	49804	UNIV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/8/2024 19:11	48901	FOSP_T2	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
11/8/2024 19:11	60801	BUCK_T1	33	43	10	0.23	0.29	0.06	-0.25	-0.24	0	0	0	0	0	0
11/8/2024 19:11	64903	MILL_T2	0	0	0	0	0	0	0.23	0.27	0	0	0	0	0	0
11/8/2024 19:11	64101	REFR_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
11/8/2024 19:12	58402	MORO_T1	1	0	-1	0.5	0	-0.5	0.46	0.43	1	1	0	900	900	0
11/8/2024 19:12	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 19:12	54601	SUMM_T2	12	12	0	0.5	0.78	0.28	-3.14	-3.12	2	2	0	2100	2100	0
11/8/2024 19:12	57401	SPAN_T1	2	3	1	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
11/8/2024 19:12	57203	ROSS_T1	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
11/8/2024 19:12	54602	SUMM_T2	15	16	1	0.29	0.5	0.21	0	0	0	0	0	0	0	0
11/8/2024 19:12	57403	SPAN_T1	27	26	-1	0.23	0.26	0.03	-0.05	-0.05	0	0	0	0	0	0
11/8/2024 19:12	65001	NEFF_T2	3	4	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/8/2024 19:12	65003	NEFF_T2	112	111	-1	0.2	0.21	0.01	-2.13	-1.48	2	1	-1	1800	1200	-600
11/8/2024 19:13	10903	COOP_T2	1	0	-1	0.1	0	-0.1	-0.47	-0.45	1	1	0	600	600	0
11/8/2024 19:13	65503	MOJO_T2	0	104	104	0	0.14	0.14	0	0	0	0	0	0	0	0
11/8/2024 19:13	58803	COCO_T1	1	1	0	2.7	3	0.3	0	0	0	0	0	0	0	0
11/8/2024 19:13	52404	GRPA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/8/2024 19:13	52402	GRPA_T2	3	3	0	0.57	0.6	0.03	-0.92	-0.92	0	0	0	0	0	0
11/8/2024 19:13	65502	MOJO_T2	41	293	252	0.1	0.24	0.14	0	0	0	0	0	0	0	0
11/8/2024 19:13	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 19:14	52402	GRPA_T2	3	3	0	0.57	0.6	0.03	0	0	0	0	0	0	0	0
11/8/2024 19:14	67805	WLAN_T1	143	328	185	0.16	0.23	0.07	-1.53	-1.54	0	0	0	0	0	0
11/8/2024 19:14	52404	GRPA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/8/2024 19:14	46101	MACI_T2	0	0	0	0	0	0	0.74	0.7	0	0	0	0	0	0
11/8/2024 19:14	52403	GRPA_T2	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
11/8/2024 19:14	49803	UNIV_T1	1	1	0	5.8	5.3	-0.5	0	0	0	0	0	0	0	0
11/8/2024 19:14	46102	MACI_T1	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
11/8/2024 19:14	67804	WLAN_T1	0	10	10	0	0.14	0.14	0	0	0	0	0	0	0	0
11/8/2024 19:14	67802	WLAN_T1	22	26	4	0.27	0.36	0.09	0	0	0	0	0	0	0	0
11/8/2024 19:14	49804	UNIV_T1	0	1	1	0	0.2	0.2	0.39	0.38	0	0	0	0	0	0
11/8/2024 19:15	64904	MILL_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
11/8/2024 19:15	24801	VALM_T1	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
11/8/2024 19:16	14601	SWHI_T1	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
11/8/2024 19:16	53901	HALI_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
11/8/2024 19:16	53902	HALI_T2	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
11/8/2024 19:16	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.59	0	0	0	0	0	0
11/8/2024 19:16	53903	HALI_T2	2	2	0	1.55	1.85	0.3	-0.17	-0.17	0	0	0	0	0	0
11/8/2024 19:16	66505	SMAN_T2	3	3	0	1	1.23	0.23	0	0	0	0	0	0	0	0
11/8/2024 19:17	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 19:19	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 19:22	63803	HEMP_T1	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
11/8/2024 19:22	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
11/8/2024 19:33	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/8/2024 19:33	66505	SMAN_T2	3	3	0	1.13	1.4	0.27	0	0	0	0	0	0	0	0
11/8/2024 19:33	66503	SMAN_T2	0	0	0	0	0	0	0.32	0.27	0	0	0	0	0	0
11/8/2024 19:33	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 19:36	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/8/2024 19:36	66502	SMAN_T2	0	0	0	0	0	0	-0.15	-0.02	0	0	0	0	0	0
11/8/2024 19:36	66505	SMAN_T2	3	3	0	1.13	1.4	0.27	0	0	0	0	0	0	0	0
11/8/2024 19:54	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2024 19:58	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
11/8/2024 20:12	46801	HEPB_T2	43	42	-1	0.36	0.36	0	0	0	0	0	0	0	0	0
11/8/2024 20:12	46803	HEPB_T2	36	48	12	0.19	0.18	-0.01	0.42	0.44	0	0	0	0	0	0
11/8/2024 20:51	15203	SFAR_T2	9	2	-7	0.1	0.1	0	0	0	0	0	0	0	0	0
11/8/2024 20:51	15204	SFAR_T2	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
11/8/2024 20:54	11504	FREE_T1	0	0	0	0	0	0	-2.58	-2.62	2	2	0	2100	2100	0
11/8/2024 21:01	16102	BING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/8/2024 21:01	16101	BING_T2	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
11/8/2024 21:31	13704	SCHN_T2	0	5	5	0	0.14	0.14	-0.51	-0.52	0	0	0	0	0	0
11/8/2024 21:49	16101	BING_T2	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
11/8/2024 22:54	46802	HEPB_T1	1	1	0	1.3	1	-0.3	-0.4	-0.41	0	0	0	0	0	0
11/8/2024 22:58	57401	SPAN_T1	61	225	164	0.18	0.28	0.1	-1.15	-1.2	1	1	0	600	600	0
11/8/2024 22:58	57403	SPAN_T1	35	136	101	0.29	0.3	0.01	0	0	0	0	0	0	0	0
11/9/2024 4:58	15203	SFAR_T2	114	98	-16	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
11/9/2024 4:58	15204	SFAR_T2	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
11/9/2024 5:00	11504	FREE_T1	0	0	0	0	0	0	-1.72	-1.68	1	1	0	1200	1200	0
11/9/2024 7:42	45501	DERR_T2	0	0	0	0	0	0	-0.15	-0.07	2	2	0	1800	1800	0
11/9/2024 7:42	20102	AVOC_T1	0	0	0	0	0	0	-0.85	-0.82	0	0	0	0	0	0
11/9/2024 7:47	64204	KINZ_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
11/9/2024 7:47	64203	KINZ_T1	0	0	0	0	0	0	0.36	0.37	1	1	0	600	600	0
11/9/2024 7:48	15202	SFAR_T1	0	1	1	0	0	0	-0.87	-0.84	1	1	0	1200	1200	0
11/9/2024 7:50	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 7:58	45501	DERR_T2	0	0	0	0	0	0	-0.07	-0.17	2	2	0	1800	1800	0
11/9/2024 8:07	24902	WHHA_T1	16	39	23	0.76	0.55	-0.21	0.7	0.69	0	0	0	0	0	0
11/9/2024 8:08	24902	WHHA_T1	16	39	23	0.76	0.55	-0.21	0.7	0.69	0	0	0	0	0	0
11/9/2024 8:09	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 8:16	23902	EFMO_T2	1	0	-1	3.5	0	-3.5	0	0	0	0	0	0	0	0
11/9/2024 8:16	23901	EFMO_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
11/9/2024 8:16	45701	LIND_T2	0	0	0	0	0	0	-1.77	-1.77	0	0	0	0	0	0
11/9/2024 8:16	63801	HEMP_T1	0	0	0	0	0	0	1.21	1.09	1	1	0	900	900	0
11/9/2024 8:16	63804	HEMP_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
11/9/2024 8:16	45702	LIND_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
11/9/2024 8:18	40601	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/9/2024 8:18	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 8:24	24902	WHHA_T1	36	26	-10	0.56	0.4	-0.16	0.69	0.73	0	0	0	0	0	0
11/9/2024 8:32	45702	LIND_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
11/9/2024 8:33	65602	QVIL_T2	2	9	7	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/9/2024 8:33	65603	QVIL_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
11/9/2024 8:37	65603	QVIL_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
11/9/2024 8:37	65602	QVIL_T2	2	9	7	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/9/2024 8:39	65602	QVIL_T2	2	9	7	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/9/2024 8:39	65603	QVIL_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
11/9/2024 8:53	20403	ASHF_T2	0	0	0	0	0	0	0.45	0.34	0	0	0	0	0	0
11/9/2024 8:55	20403	ASHF_T2	0	0	0	0	0	0	0.45	0.34	0	0	0	0	0	0
11/9/2024 9:00	67502	WEWI_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
11/9/2024 9:00	66502	SMAN_T2	0	0	0	0	0	0	-0.21	-0.26	0	0	0	0	0	0
11/9/2024 9:00	67503	WEWI_T2	1	1	0	7.3	7.3	0	-0.46	-0.49	0	0	0	0	0	0
11/9/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
11/9/2024 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
11/9/2024 9:07	57401	SPAN_T1	0	2	2	0	0.55	0.55	-2.84	-2.8	2	2	0	1200	1200	0
11/9/2024 9:09	60301	TWVA_T2	0	0	0	0	0	0	-3.1	-2.94	2	2	0	2400	2400	0
11/9/2024 9:11	24902	WHHA_T1	2	2	0	0.2	0.2	0	0.71	0.7	0	0	0	0	0	0
11/9/2024 9:11	24901	WHHA_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
11/9/2024 9:12	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.42	-0.77	4	4	0	3600	3600	0
11/9/2024 9:15	52403	GRPA_T2	6	14	8	0.55	0.48	-0.07	-0.81	-0.83	0	0	0	0	0	0
11/9/2024 9:15	52402	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/9/2024 9:16	64201	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/9/2024 9:16	64204	KINZ_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
11/9/2024 9:16	45701	LIND_T2	0	0	0	0	0	0	-1.77	-1.77	0	0	0	0	0	0
11/9/2024 9:16	64203	KINZ_T1	0	0	0	0	0	0	0.72	1.75	1	1	0	600	600	0
11/9/2024 9:18	65601	QVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/9/2024 9:18	65602	QVIL_T2	1	23	22	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
11/9/2024 9:19	65602	QVIL_T2	1	23	22	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
11/9/2024 9:19	65601	QVIL_T2	0	1	1	0	0.4	0.4	-1.1	-1.18	1	1	0	900	900	0
11/9/2024 9:19	45702	LIND_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
11/9/2024 9:21	15203	SFAR_T2	1	2	1	0.3	0.4	0.1	-1.4	-1.37	0	0	0	0	0	0
11/9/2024 9:22	57401	SPAN_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
11/9/2024 9:22	12402	MILF_T1	0	1	1	0	0.5	0.5	-0.6	-0.6	1	1	0	1200	1200	0
11/9/2024 9:22	57403	SPAN_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
11/9/2024 9:22	12401	MILF_T1	1	3	2	0.9	0.67	-0.23	0	0	0	0	0	0	0	0
11/9/2024 9:23	15203	SFAR_T2	1	2	1	0.3	0.4	0.1	-1.4	-1.37	0	0	0	0	0	0
11/9/2024 9:24	15203	SFAR_T2	1	2	1	0.3	0.4	0.1	-1.4	-1.37	0	0	0	0	0	0
11/9/2024 9:25	14603	SWHI_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/9/2024 9:27	54506	ENOL_T2	0	0	0	0	0	0	0.34	0.27	1	0	-1	600	0	-600
11/9/2024 9:28	44301	BEAV_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
11/9/2024 9:29	23901	EFMO_T2	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
11/9/2024 9:29	63801	HEMP_T1	0	1	1	0	0.2	0.2	-1.03	-1.21	1	1	0	900	900	0
11/9/2024 9:29	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
11/9/2024 9:30	52403	GRPA_T2	11	13	2	0.39	0.51	0.12	-0.83	-0.85	0	0	0	0	0	0
11/9/2024 9:30	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 9:31	58401	MORO_T1	1	1	0	0.1	0.1	0	-1.23	-1.29	1	1	0	600	600	0
11/9/2024 9:31	40101	HUNT_T2	10	29	19	0.41	0.56	0.15	-1.02	-0.79	1	0	-1	300	0	-300
11/9/2024 9:31	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	0.37	0.48	0	0	0	0	0	0
11/9/2024 9:32	46004	BERW_T2	1	0	-1	1.5	0	-1.5	-0.9	-0.82	0	0	0	0	0	0
11/9/2024 9:32	58401	MORO_T1	1	1	0	0.1	0.1	0	-1.23	-1.29	1	1	0	600	600	0
11/9/2024 9:32	58402	MORO_T1	0	0	0	0	0	0	-0.52	-0.48	2	2	0	1500	1500	0
11/9/2024 9:32	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	1.12	1.44	0	0	0	0	0	0
11/9/2024 9:33	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	0.37	0.48	0	0	0	0	0	0
11/9/2024 9:38	54602	SUMM_T2	10	13	3	0.28	0.19	-0.09	0	0	0	0	0	0	0	0
11/9/2024 9:38	54601	SUMM_T2	6	9	3	0.27	0.31	0.04	-4.46	-4.4	2	2	0	2100	2100	0
11/9/2024 9:39	55101	WERT_T1	0	0	0	0	0	0	-1.15	-1.12	1	1	0	600	600	0
11/9/2024 9:40	55101	WERT_T1	0	0	0	0	0	0	-1.15	-1.12	1	1	0	600	600	0
11/9/2024 9:48	13303	ORVI_T1	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
11/9/2024 9:50	57401	SPAN_T1	1	3	2	0.1	0.2	0.1	-1.31	-1.25	1	1	0	600	600	0
11/9/2024 9:54	57401	SPAN_T1	1	3	2	0.1	0.2	0.1	-1.25	-1.32	1	1	0	600	600	0
11/9/2024 9:54	41902	REED_T1	1	0	-1	0.2	0	-0.2	0.74	0.68	0	0	0	0	0	0
11/9/2024 9:59	61001	DONV_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
11/9/2024 10:00	17804	GILB_T2	1	2	1	1.4	0.85	-0.55	0	0	0	0	0	0	0	0
11/9/2024 10:00	17805	GILB_T2	0	1	1	0	0.1	0.1	-0.16	-0.16	0	0	0	0	0	0
11/9/2024 10:01	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
11/9/2024 10:02	63801	HEMP_T1	2	2	0	0.15	0.3	0.15	-1.17	-1.17	1	1	0	900	900	0
11/9/2024 10:02	17804	GILB_T2	1	2	1	1.4	0.85	-0.55	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/9/2024 10:02	63804	HEMP_T1	1	1	0	5.6	6	0.4	0	0	0	0	0	0	0	0
11/9/2024 10:02	17805	GILB_T2	0	1	1	0	0.1	0.1	-0.16	-0.16	0	0	0	0	0	0
11/9/2024 10:03	63601	LETO_T1	7	7	0	0.53	0.47	-0.06	0.13	0.07	1	1	0	900	900	0
11/9/2024 10:03	63602	LETO_T1	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/9/2024 10:04	63602	LETO_T1	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/9/2024 10:04	63601	LETO_T1	7	7	0	0.53	0.47	-0.06	0.13	0.07	1	1	0	900	900	0
11/9/2024 10:08	24902	WHHA_T1	2	5	3	0.55	1	0.45	1.44	1.5	0	0	0	0	0	0
11/9/2024 10:08	24901	WHHA_T1	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
11/9/2024 10:11	23901	EFMO_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
11/9/2024 10:13	46002	BERW_T2	0	1	1	0	0	0	-1.52	-1.46	1	1	0	900	900	0
11/9/2024 10:16	20603	GRWO_T2	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
11/9/2024 10:19	45501	DERR_T2	0	0	0	0	0	0	-0.18	-0.18	2	2	0	1800	1800	0
11/9/2024 10:26	10801	CHHI_T1	0	6	6	0	0.28	0.28	-1.67	-1.68	2	2	0	1500	1500	0
11/9/2024 10:29	10801	CHHI_T1	0	6	6	0	0.28	0.28	-1.67	-1.68	2	2	0	1500	1500	0
11/9/2024 10:29	55105	WERT_T1	0	0	0	0	0	0	-0.79	-0.78	1	1	0	900	900	0
11/9/2024 10:39	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
11/9/2024 10:40	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
11/9/2024 10:43	23901	EFMO_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
11/9/2024 10:44	21204	ECAR_T2	1	1	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
11/9/2024 10:44	21206	ECAR_T2	1	1	0	8.2	8.3	0.1	0.11	0.17	0	0	0	0	0	0
11/9/2024 10:49	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/9/2024 10:49	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
11/9/2024 10:49	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/9/2024 10:49	66504	SMAN_T2	3	4	1	0.43	0.55	0.12	0	0	0	0	0	0	0	0
11/9/2024 10:49	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/9/2024 10:50	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
11/9/2024 10:51	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
11/9/2024 10:52	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
11/9/2024 10:53	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/9/2024 10:53	66505	SMAN_T2	0	1	1	0	0.1	0.1	-0.19	-0.24	1	1	0	900	900	0
11/9/2024 10:53	66504	SMAN_T2	3	4	1	0.43	0.55	0.12	0	0	0	0	0	0	0	0
11/9/2024 10:53	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/9/2024 10:53	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/9/2024 11:04	54502	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/9/2024 11:04	54501	ENOL_T2	0	0	0	0	0	0	-0.53	-0.56	1	1	0	600	600	0
11/9/2024 11:07	67503	WEWI_T2	1	1	0	7.9	8	0.1	0	0	0	0	0	0	0	0
11/9/2024 11:07	67502	WEWI_T2	10	13	3	0.38	0.39	0.01	-1.46	-1.48	1	1	0	900	900	0
11/9/2024 11:08	67503	WEWI_T2	1	1	0	7.9	8	0.1	0	0	0	0	0	0	0	0
11/9/2024 11:08	67502	WEWI_T2	10	13	3	0.38	0.39	0.01	-1.46	-1.48	1	1	0	900	900	0
11/9/2024 11:11	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 11:11	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 11:11	67503	WEWI_T2	1	1	0	7.9	8	0.1	-0.52	-0.55	0	0	0	0	0	0
11/9/2024 11:11	67502	WEWI_T2	10	13	3	0.38	0.39	0.01	0	0	0	0	0	0	0	0
11/9/2024 11:12	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 11:12	67502	WEWI_T2	10	13	3	0.38	0.39	0.01	-1.46	-1.48	1	1	0	900	900	0
11/9/2024 11:12	67503	WEWI_T2	1	1	0	7.9	8	0.1	0	0	0	0	0	0	0	0
11/9/2024 11:13	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 11:13	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 11:14	52403	GRPA_T2	7	11	4	0.43	0.58	0.15	0	0	0	0	0	0	0	0
11/9/2024 11:14	52402	GRPA_T2	1	2	1	0.2	0.3	0.1	-0.97	-0.96	0	0	0	0	0	0
11/9/2024 11:15	60803	BUCK_T1	1	8	7	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/9/2024 11:15	60801	BUCK_T1	2	3	1	0.25	0.37	0.12	-0.19	-0.21	0	0	0	0	0	0
11/9/2024 11:16	26704	HEML_T2	0	0	0	0	0	0	-0.86	-0.87	1	1	0	1200	1200	0
11/9/2024 11:16	64305	LINC_T1	1	1	0	0.3	0.5	0.2	-0.68	-0.72	0	0	0	0	0	0
11/9/2024 11:16	21901	HUMB_T1	1	0	-1	0.1	0	-0.1	-2.25	-2.24	0	0	0	0	0	0
11/9/2024 11:17	46801	HEPB_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
11/9/2024 11:21	57401	SPAN_T1	3	5	2	0.53	0.5	-0.03	-4.22	-4.19	3	3	0	1800	1800	0
11/9/2024 11:22	57401	SPAN_T1	3	5	2	0.53	0.5	-0.03	-1.41	-1.4	1	1	0	600	600	0
11/9/2024 11:23	12401	MILF_T1	3	3	0	0.73	1.03	0.3	-0.43	-0.45	0	0	0	0	0	0
11/9/2024 11:23	12402	MILF_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
11/9/2024 11:23	12403	MILF_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
11/9/2024 11:24	57401	SPAN_T1	3	5	2	0.53	0.5	-0.03	-1.41	-1.4	1	1	0	600	600	0
11/9/2024 11:28	67401	WAKE_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/9/2024 11:28	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
11/9/2024 11:35	66504	SMAN_T2	2	3	1	0.6	0.57	-0.03	-1.18	-1.43	0	0	0	0	0	0
11/9/2024 11:35	66501	SMAN_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/9/2024 11:35	66505	SMAN_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/9/2024 11:35	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/9/2024 11:36	63201	MGTN_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/9/2024 11:36	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/9/2024 11:36	66504	SMAN_T2	2	3	1	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
11/9/2024 11:36	66501	SMAN_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/9/2024 11:36	66505	SMAN_T2	1	2	1	0.4	0.3	-0.1	-0.21	-0.28	1	1	0	900	900	0
11/9/2024 11:36	66503	MOJO_T2	0	1	1	0	0.2	0.2	-0.44	-0.42	0	0	0	0	0	0
11/9/2024 11:36	63202	MGTN_T2	1	0	-1	8.6	0	-8.6	0.51	0.51	0	0	0	0	0	0
11/9/2024 11:37	66504	SMAN_T2	2	3	1	0.6	0.57	-0.03	-0.71	-0.69	0	0	0	0	0	0
11/9/2024 11:37	66501	SMAN_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/9/2024 11:37	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/9/2024 11:37	66505	SMAN_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/9/2024 11:38	66501	SMAN_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/9/2024 11:38	66505	SMAN_T2	1	2	1	0.4	0.3	-0.1	-0.21	-0.28	1	1	0	900	900	0
11/9/2024 11:38	66504	SMAN_T2	2	3	1	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
11/9/2024 11:38	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/9/2024 11:49	10903	COOP_T2	2	4	2	0.6	0.55	-0.05	-0.42	-0.39	1	1	0	600	600	0
11/9/2024 11:59	44901	SCOT_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
11/9/2024 11:59	44902	SCOT_T2	0	1	1	0	0.2	0.2	-2.27	-2.29	0	0	0	0	0	0
11/9/2024 12:01	44801	EDAN_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
11/9/2024 12:04	46101	MACI_T2	0	0	0	0	0	0	-0.37	-0.75	1	1	0	1200	1200	0
11/9/2024 12:04	44801	EDAN_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
11/9/2024 12:05	44801	EDAN_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
11/9/2024 12:06	64101	REFR_T1	1	3	2	1	0.6	-0.4	-0.01	-0.01	0	0	0	0	0	0
11/9/2024 12:07	64801	MONE_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/9/2024 12:07	64802	MONE_T2	2	2	0	0.5	0.5	0	-0.01	-0.01	0	0	0	0	0	0
11/9/2024 12:09	64802	MONE_T2	2	2	0	0.5	0.5	0	-0.01	-0.01	0	0	0	0	0	0
11/9/2024 12:09	64801	MONE_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/9/2024 12:10	60201	ATGL_T2	1	2	1	0.5	0.6	0.1	0.32	0.39	0	0	0	0	0	0
11/9/2024 12:11	64801	MONE_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/9/2024 12:11	64802	MONE_T2	2	2	0	0.5	0.5	0	-0.01	-0.01	0	0	0	0	0	0
11/9/2024 12:13	41801	GOCI_T2	2	3	1	0.35	0.67	0.32	0	0	0	0	0	0	0	0
11/9/2024 12:14	57401	SPAN_T1	5	6	1	0.38	0.35	-0.03	-1.38	-1.38	1	1	0	600	600	0
11/9/2024 12:14	57403	SPAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/9/2024 12:17	58201	NEWV_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/9/2024 12:17	52403	GRPA_T2	8	7	-1	0.65	0.67	0.02	0	0	0	0	0	0	0	0
11/9/2024 12:17	52402	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/9/2024 12:17	58202	NEWV_T1	0	0	0	0	0	0	-0.36	-0.32	0	0	0	0	0	0
11/9/2024 12:17	52401	GRPA_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
11/9/2024 12:17	20603	GRWO_T2	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
11/9/2024 12:30	65603	QVIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/9/2024 12:30	65602	QVIL_T2	56	58	2	0.5	0.53	0.03	0.09	0.15	0	0	0	0	0	0
11/9/2024 12:30	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/9/2024 12:30	65601	QVIL_T2	62	84	22	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
11/9/2024 12:31	65603	QVIL_T2	1	1	0	0.2	0.2	0	0.17	0.14	0	0	0	0	0	0
11/9/2024 12:31	65602	QVIL_T2	56	58	2	0.5	0.53	0.03	0	0	0	0	0	0	0	0
11/9/2024 12:31	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/9/2024 12:31	65601	QVIL_T2	62	84	22	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
11/9/2024 12:32	40101	HUNT_T2	4	9	5	0.4	0.2	-0.2	-0.81	-0.82	1	1	0	300	300	0
11/9/2024 12:33	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/9/2024 12:33	65601	QVIL_T2	62	84	22	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
11/9/2024 12:33	65602	QVIL_T2	56	58	2	0.5	0.53	0.03	0	0	0	0	0	0	0	0
11/9/2024 12:33	65603	QVIL_T2	1	1	0	0.2	0.2	0	0.17	0.14	0	0	0	0	0	0
11/9/2024 12:35	65602	QVIL_T2	56	58	2	0.5	0.53	0.03	0	0	0	0	0	0	0	0
11/9/2024 12:35	65603	QVIL_T2	1	1	0	0.2	0.2	0	0.17	0.14	0	0	0	0	0	0
11/9/2024 12:35	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 12:35	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/9/2024 12:35	65601	QVIL_T2	62	84	22	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
11/9/2024 12:40	57403	SPAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/9/2024 12:40	57401	SPAN_T1	5	7	2	0.4	0.37	-0.03	-1.4	-1.32	1	1	0	600	600	0
11/9/2024 12:41	42601	TUSC_T1	1	0	-1	0.1	0	-0.1	-1.27	-1.04	4	4	0	3600	3600	0
11/9/2024 12:45	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 12:49	65503	MOJO_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/9/2024 12:49	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 12:51	14802	TREI_T2	1	1	0	0.2	0.6	0.4	0.29	0.3	0	0	0	0	0	0
11/9/2024 12:52	14802	TREI_T2	1	1	0	0.2	0.6	0.4	0.29	0.3	0	0	0	0	0	0
11/9/2024 12:54	14802	TREI_T2	1	1	0	0.2	0.6	0.4	0.29	0.3	0	0	0	0	0	0
11/9/2024 12:56	14802	TREI_T2	1	1	0	0.2	0.6	0.4	0.29	0.3	0	0	0	0	0	0
11/9/2024 12:59	45502	DERR_T2	2	2	0	0.5	0.55	0.05	-1.22	-1.09	4	4	0	3600	3600	0
11/9/2024 13:00	45501	DERR_T2	1	2	1	1	0.4	-0.6	-0.61	-0.54	2	2	0	1800	1800	0
11/9/2024 13:04	41001	LAUR_T2	2	1	-1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
11/9/2024 13:04	41002	LAUR_T2	1	1	0	1.8	2	0.2	0.04	0.03	0	0	0	0	0	0
11/9/2024 13:06	54602	SUMM_T2	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
11/9/2024 13:06	54601	SUMM_T2	11	11	0	0.32	0.36	0.04	-4.32	-4.39	2	2	0	2100	2100	0
11/9/2024 13:14	40902	JESH_T1	0	0	0	0	0	0	-1.5	-1.5	1	1	0	600	600	0
11/9/2024 13:14	40901	JESH_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
11/9/2024 13:15	40901	JESH_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
11/9/2024 13:15	40902	JESH_T1	0	0	0	0	0	0	-1.5	-1.5	1	1	0	600	600	0
11/9/2024 13:17	20601	GRWO_T2	1	1	0	0.1	0.1	0	-0.23	-0.23	0	0	0	0	0	0
11/9/2024 13:25	60101	COCA_T1	1	1	0	0.3	0.3	0	0.25	0.19	0	0	0	0	0	0
11/9/2024 13:29	60104	COCA_T2	2	4	2	0.1	0.28	0.18	0	0	0	0	0	0	0	0
11/9/2024 13:29	60102	COCA_T1	0	0	0	0	0	0	0.77	0.71	1	1	0	600	600	0
11/9/2024 13:29	60101	COCA_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/9/2024 13:29	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 13:35	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 13:37	54504	ENOL_T2	0	0	0	0	0	0	-1.13	-1.13	1	1	0	600	600	0
11/9/2024 13:37	67401	WAKE_T2	0	0	0	0	0	0	-0.94	-0.91	0	0	0	0	0	0
11/9/2024 13:37	54505	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/9/2024 13:37	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/9/2024 13:41	46203	DANV_T2	4	3	-1	0.2	0.17	-0.03	-2.2	-2.2	0	0	0	0	0	0
11/9/2024 13:41	60101	COCA_T1	1	1	0	0.3	0.2	-0.1	0.19	0.22	0	0	0	0	0	0
11/9/2024 13:45	60101	COCA_T1	1	1	0	0.2	0.1	-0.1	0.19	0.22	0	0	0	0	0	0
11/9/2024 13:47	60101	COCA_T1	1	1	0	0.2	0.1	-0.1	0.19	0.22	0	0	0	0	0	0
11/9/2024 13:51	60101	COCA_T1	1	1	0	0.2	0.1	-0.1	0.22	0.25	0	0	0	0	0	0
11/9/2024 13:51	64101	REFR_T1	2	2	0	0.7	0.7	0	-0.01	-0.01	0	0	0	0	0	0
11/9/2024 14:00	46203	DANV_T2	1	0	-1	0.1	0	-0.1	-2.2	-2.21	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/9/2024 14:14	44302	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 14:14	44301	BEAV_T2	12	7	-5	0.21	0.2	-0.01	-1.04	-1.04	1	1	0	600	600	0
11/9/2024 14:16	44301	BEAV_T2	7	3	-4	0.2	0.2	0	-1.04	-1.04	1	1	0	600	600	0
11/9/2024 14:20	13303	ORVI_T1	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
11/9/2024 14:29	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
11/9/2024 14:40	55105	WERT_T1	0	0	0	0	0	0	-0.74	-0.77	1	1	0	900	900	0
11/9/2024 14:45	24702	FLND_T2	0	0	0	0	0	0	-0.36	-0.42	1	1	0	1200	1200	0
11/9/2024 14:48	13303	ORVI_T1	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
11/9/2024 14:52	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 14:55	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 15:02	12005	HATF_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/9/2024 15:02	12001	HATF_T1	0	0	0	0	0	0	1.11	0.99	1	1	0	600	600	0
11/9/2024 15:03	12001	HATF_T1	0	0	0	0	0	0	1.11	0.99	1	1	0	600	600	0
11/9/2024 15:03	12005	HATF_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/9/2024 15:11	20103	AVOC_T1	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
11/9/2024 15:12	20102	AVOC_T1	0	0	0	0	0	0	-0.85	-0.82	0	0	0	0	0	0
11/9/2024 15:19	54502	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/9/2024 15:19	54503	ENOL_T2	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
11/9/2024 15:19	54505	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/9/2024 15:19	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.27	1	1	0	600	600	0
11/9/2024 15:20	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.27	1	1	0	600	600	0
11/9/2024 15:34	45702	LIND_T2	1	1	0	0.4	0.5	0.1	-0.51	-0.5	0	0	0	0	0	0
11/9/2024 15:35	12005	HATF_T1	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/9/2024 15:35	12006	HATF_T1	0	0	0	0	0	0	-0.09	-0.04	0	0	0	0	0	0
11/9/2024 15:37	12005	HATF_T1	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/9/2024 15:37	12002	HATF_T1	0	0	0	0	0	0	-0.34	-0.33	1	1	0	1200	1200	0
11/9/2024 15:43	14204	EALL_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
11/9/2024 16:29	63501	HEID_TBK1-2	1	31	30	1.3	0.25	-1.05	0.4	-0.46	0	1	1	0	900	900
11/9/2024 16:47	52403	GRPA_T2	0	0	0	0	0	0	-0.76	-0.74	0	0	0	0	0	0
11/9/2024 18:29	40101	HUNT_T2	92	42	-50	0.4	0.31	-0.09	-1.05	-1.07	1	1	0	300	300	0
11/9/2024 18:43	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 18:44	12402	MILF_T1	0	0	0	0	0	0	-0.63	-0.56	1	1	0	1200	1200	0
11/9/2024 18:47	20603	GRWO_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
11/9/2024 18:47	17805	GILB_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
11/9/2024 18:47	26704	HEMI_T2	0	0	0	0	0	0	-0.88	-0.87	1	1	0	1200	1200	0
11/9/2024 18:47	46004	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/9/2024 18:47	46002	BERW_T2	0	1	1	0	0	0	-1.56	-1.58	1	1	0	900	900	0
11/9/2024 18:48	15203	SFAR_T2	0	0	0	0	0	0	-1.33	-1.35	0	0	0	0	0	0
11/9/2024 18:48	24902	WHHA_T1	1	3	2	0.6	0.6	0	1.5	1.48	0	0	0	0	0	0
11/9/2024 18:49	44801	EDAN_T2	1	0	-1	0.2	0	-0.2	-0.55	-0.55	0	0	0	0	0	0
11/9/2024 18:49	10903	COOP_T2	0	0	0	0	0	0	-0.42	-0.41	1	1	0	600	600	0
11/9/2024 18:49	13303	ORVI_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
11/9/2024 18:50	17805	GILB_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
11/9/2024 18:50	66505	SMAN_T2	3	3	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
11/9/2024 18:50	66504	SMAN_T2	0	0	0	0	0	0	-1.32	-1.35	0	0	0	0	0	0
11/9/2024 18:50	67503	WEWI_T2	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
11/9/2024 18:50	67502	WEWI_T2	0	0	0	0	0	0	-1.58	-1.53	1	1	0	900	900	0
11/9/2024 18:51	14802	TREI_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
11/9/2024 18:51	60101	COCA_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
11/9/2024 18:52	63501	HEID_TBK1-2	38	36	-2	0.78	0.58	-0.2	-0.9	-0.77	2	2	0	1800	1800	0
11/9/2024 18:52	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 18:52	21206	ECAR_T2	1	2	1	7	7.1	0.1	-0.04	0.07	0	0	0	0	0	0
11/9/2024 18:52	66505	SMAN_T2	3	3	0	0.5	0.9	0.4	-0.5	-0.53	1	1	0	900	900	0
11/9/2024 18:52	20103	AVOC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 18:52	20102	AVOC_T1	0	0	0	0	0	0	-0.84	-0.87	0	0	0	0	0	0
11/9/2024 18:52	14802	TREI_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
11/9/2024 18:53	57401	SPAN_T1	0	0	0	0	0	0	-1.09	-1.07	1	1	0	600	600	0
11/9/2024 18:53	60101	COCA_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
11/9/2024 18:53	60301	TWVA_T2	0	0	0	0	0	0	-4.36	-4.3	4	4	0	3600	3600	0
11/9/2024 18:53	24702	FLND_T2	0	0	0	0	0	0	-0.45	-0.36	1	1	0	1200	1200	0
11/9/2024 18:53	24902	WHHA_T1	1	3	2	0.6	0.6	0	0.74	0.73	0	0	0	0	0	0
11/9/2024 18:53	14802	TREI_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
11/9/2024 18:54	54506	ENOL_T2	0	0	0	0	0	0	0.41	0.35	0	1	1	0	600	600
11/9/2024 18:54	65603	QVIL_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
11/9/2024 18:54	46101	MACI_T2	0	0	0	0	0	0	-0.8	-0.79	1	1	0	1200	1200	0
11/9/2024 18:54	60102	COCA_T1	0	0	0	0	0	0	0.24	0.21	2	2	0	1200	1200	0
11/9/2024 18:54	12001	HATF_T1	0	0	0	0	0	0	1.02	1.09	1	1	0	600	600	0
11/9/2024 18:54	66505	SMAN_T2	3	3	0	0.5	0.9	0.4	-0.5	-0.53	1	1	0	900	900	0
11/9/2024 18:54	63601	LETO_T1	2	3	1	0.35	0.4	0.05	-0.1	-0.09	1	1	0	900	900	0
11/9/2024 18:54	64305	LINC_T1	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
11/9/2024 18:54	12004	HATF_T1	5	8	3	0.18	0.11	-0.07	0	0	0	0	0	0	0	0
11/9/2024 18:54	12006	HATF_T1	0	0	0	0	0	0	0.01	-0.05	0	0	0	0	0	0
11/9/2024 18:54	64101	RERR_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
11/9/2024 18:54	45501	DERR_T2	0	0	0	0	0	0	-1.66	-1.7	4	4	0	3600	3600	0
11/9/2024 18:54	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 18:54	41602	CLEV_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
11/9/2024 18:54	40101	HUNT_T2	22	121	99	0.35	0.55	0.2	-1.16	-0.56	1	0	-1	300	0	-300
11/9/2024 18:54	12005	HATF_T1	5	5	0	0.46	0.44	-0.02	0	0	0	0	0	0	0	0
11/9/2024 18:55	57401	SPAN_T1	0	0	0	0	0	0	-1.09	-1.07	1	1	0	600	600	0
11/9/2024 18:55	54501	ENOL_T2	0	0	0	0	0	0	-0.57	-0.57	1	1	0	600	600	0
11/9/2024 18:55	63501	HEID_TBK1-2	38	36	-2	0.78	0.58	-0.2	-0.45	-0.39	1	1	0	900	900	0
11/9/2024 18:56	15203	SFAR_T2	0	0	0	0	0	0	-1.35	-1.36	0	0	0	0	0	0
11/9/2024 18:56	57401	SPAN_T1	0	0	0	0	0	0	-1.09	-1.07	1	1	0	600	600	0
11/9/2024 18:56	45701	LIND_T2	0	0	0	0	0	0	-1.79	-1.79	0	0	0	0	0	0
11/9/2024 18:56	12005	HATF_T1	5	5	0	0.46	0.44	-0.02	0	0	0	0	0	0	0	0
11/9/2024 18:56	67502	WEWI_T2	0	0	0	0	0	0	-1.53	-1.49	1	1	0	900	900	0
11/9/2024 18:56	41002	LAUR_T2	1	3	2	0.7	0.23	-0.47	0.1	0.09	0	0	0	0	0	0
11/9/2024 18:56	63501	HEID_TBK1-2	38	36	-2	0.78	0.58	-0.2	-0.45	-0.39	1	1	0	900	900	0
11/9/2024 18:56	67503	WEWI_T2	1	1	0	5.7	5.8	0.1	-0.37	-0.42	0	0	0	0	0	0
11/9/2024 18:56	65601	QVIL_T2	0	0	0	0	0	0	-1.33	-1.25	1	1	0	900	900	0
11/9/2024 18:56	41001	LAUR_T2	1	3	2	1.4	1.8	0.4	0	0	0	0	0	0	0	0
11/9/2024 18:56	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
11/9/2024 18:56	13303	ORVI_T1	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
11/9/2024 18:56	12004	HATF_T1	5	8	3	0.18	0.11	-0.07	0	0	0	0	0	0	0	0
11/9/2024 18:56	63202	MGTN_T2	0	3	3	0	1.7	1.7	0.36	0.35	0	0	0	0	0	0
11/9/2024 18:56	12002	HATF_T1	0	0	0	0	0	0	-0.29	-0.29	1	1	0	1200	1200	0
11/9/2024 18:57	57401	SPAN_T1	0	0	0	0	0	0	-1.09	-1.07	1	1	0	600	600	0
11/9/2024 18:57	65503	MOJO_T2	0	0	0	0	0	0	-0.48	-0.56	0	0	0	0	0	0
11/9/2024 18:57	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
11/9/2024 18:57	60801	BUCK_T1	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
11/9/2024 18:57	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/9/2024 18:57	20103	AVOC_T1	0	1	1	0	0	0	-0.35	-0.34	0	0	0	0	0	0
11/9/2024 18:57	54601	SUMM_T2	3	9	6	0.27	0.17	-0.1	-4.38	-4.38	2	2	0	2100	2100	0
11/9/2024 18:57	14204	EALL_T2	0	1	1	0	0	0	-0.18	-0.22	0	0	0	0	0	0
11/9/2024 18:57	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 18:58	66505	SMAN_T2	3	3	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
11/9/2024 18:58	15203	SFAR_T2	0	0	0	0	0	0	-1.35	-1.36	0	0	0	0	0	0
11/9/2024 18:58	63601	LETO_T1	2	3	1	0.35	0.4	0.05	-0.1	-0.09	1	1	0	900	900	0
11/9/2024 18:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 18:58	57401	SPAN_T1	0	0	0	0	0	0	-2.18	-2.14	2	2	0	1200	1200	0
11/9/2024 18:58	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/9/2024 18:58	20603	GRWO_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
11/9/2024 18:58	10801	CHHI_T1	0	0	0	0	0	0	-1.66	-1.67	2	2	0	1500	1500	0
11/9/2024 18:58	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 18:58	66504	SMAN_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
11/9/2024 18:58	21901	HUMB_T1	0	0	0	0	0	0	-2.19	-2.2	0	0	0	0	0	0
11/9/2024 18:59	63501	HEID_TBK1-2	38	36	-2	0.78	0.58	-0.2	-0.45	-0.39	1	1	0	900	900	0
11/9/2024 18:59	60201	ATGL_T2	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
11/9/2024 18:59	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/9/2024 18:59	12001	HATF_T1	0	0	0	0	0	0	1.02	1.09	1	1	0	600	600	0
11/9/2024 18:59	54601	SUMM_T2	3	9	6	0.27	0.17	-0.1	-4.38	-4.38	2	2	0	2100	2100	0
11/9/2024 18:59	44801	EDAN_T2	1	0	-1	0.2	0	-0.2	-0.55	-0.52	0	0	0	0	0	0
11/9/2024 18:59	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 18:59	12004	HATF_T1	5	8	3	0.18	0.11	-0.07	0	0	0	0	0	0	0	0
11/9/2024 18:59	12005	HATF_T1	5	5	0	0.46	0.44	-0.02	0	0	0	0	0	0	0	0
11/9/2024 18:59	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
11/9/2024 19:00	67502	WEWI_T2	0	0	0	0	0	0	-1.53	-1.49	1	1	0	900	900	0
11/9/2024 19:00	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 19:00	65602	QVIL_T2	0	1	1	0	0	0	0.14	0.13	0	0	0	0	0	0
11/9/2024 19:00	44902	SCOT_T2	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
11/9/2024 19:00	44301	BEAV_T2	0	1	1	0	0.5	0.5	-1.17	-1.16	1	1	0	600	600	0
11/9/2024 19:00	64101	RERR_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
11/9/2024 19:00	46801	HEPB_T2	2	2	0	0.35	0.55	0.2	0.49	0.47	0	0	0	0	0	0
11/9/2024 19:00	41602	CLEV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/9/2024 19:00	10801	CHHI_T1	0	0	0	0	0	0	-1.66	-1.67	2	2	0	1500	1500	0
11/9/2024 19:00	44801	EDAN_T2	0	0	0	0	0	0	-0.55	-0.52	0	0	0	0	0	0
11/9/2024 19:00	67503	WEWI_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
11/9/2024 19:00	57401	SPAN_T1	0	0	0	0	0	0	-1.09	-1.07	1	1	0	600	600	0
11/9/2024 19:00	40901	JESH_T1	1	1	0	2.1	1.4	-0.7	0	0	0	0	0	0	0	0
11/9/2024 19:00	40902	JESH_T1	0	1	1	0	0	0	-1.49	-1.52	1	1	0	600	600	0
11/9/2024 19:00	54503	ENOL_T2	0	0	0	0	0	0	-1.12	-1.11	1	1	0	600	600	0
11/9/2024 19:00	45702	LIND_T2	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
11/9/2024 19:01	52401	GRPA_T2	0	0	0	0	0	0	-0.58	-0.57	0	0	0	0	0	0
11/9/2024 19:01	40101	HUNT_T2	8	227	219	0.55	0.37	-0.18	-1.16	-0.56	1	0	-1	300	0	-300
11/9/2024 19:01	40901	JESH_T1	1	1	0	2.1	1.4	-0.7	0	0	0	0	0	0	0	0
11/9/2024 19:01	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 19:01	40902	JESH_T1	0	1	1	0	0	0	-1.49	-1.52	1	1	0	600	600	0
11/9/2024 19:01	55101	WERT_T1	0	0	0	0	0	0	-1.32	-1.29	1	1	0	600	600	0
11/9/2024 19:02	45702	LIND_T2	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
11/9/2024 19:02	14802	TREI_T2	0	1	1	0	0	0	0.34	0.34	0	0	0	0	0	0
11/9/2024 19:02	23901	EFMO_T2	0	1	1	0	0	0	0.14	0.12	0	0	0	0	0	0
11/9/2024 19:02	67401	WAKE_T2	0	0	0	0	0	0	-1.2	-1.08	0	0	0	0	0	0
11/9/2024 19:02	54504	ENOL_T2	0	0	0	0	0	0	-1.14	-1.11	1	1	0	600	600	0
11/9/2024 19:02	45501	DERR_T2	0	1	1	0	0	0	-0.83	-0.85	2	2	0	1800	1800	0
11/9/2024 19:02	14801	TREI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 19:02	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
11/9/2024 19:03	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
11/9/2024 19:03	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 19:03	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 19:03	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.21	1	1	0	600	600	0
11/9/2024 19:03	60101	COCA_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
11/9/2024 19:03	20601	GRWO_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
11/9/2024 19:03	63801	HEMP_T1	0	1	1	0	0	0	-0.33	-0.2	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/9/2024 19:04	13303	ORVI_T1	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
11/9/2024 19:04	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.21	1	1	0	600	600	0
11/9/2024 19:05	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/9/2024 19:05	58402	MORO_T1	0	0	0	0	0	0	-0.43	-0.43	2	2	0	1500	1500	0
11/9/2024 19:05	58401	MORO_T1	0	0	0	0	0	0	-2.34	-2.42	2	2	0	1200	1200	0
11/9/2024 19:05	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
11/9/2024 19:05	12401	MILF_T1	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
11/9/2024 19:06	58202	NEWV_T1	0	0	0	0	0	0	-0.31	-0.37	0	0	0	0	0	0
11/9/2024 19:06	66505	SMAN_T2	3	3	0	0.9	0.7	-0.2	-0.53	-0.46	1	1	0	900	900	0
11/9/2024 19:06	63801	HEMP_T1	0	1	1	0	0	0	-0.2	-0.36	0	0	0	0	0	0
11/9/2024 19:06	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
11/9/2024 19:06	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
11/9/2024 19:06	55101	WERT_T1	0	0	0	0	0	0	-1.29	-1.28	1	1	0	600	600	0
11/9/2024 19:06	45501	DERR_T2	0	1	1	0	0	0	-0.83	-0.85	2	2	0	1800	1800	0
11/9/2024 19:07	65603	QVIL_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
11/9/2024 19:07	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/9/2024 19:07	65602	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 19:07	52402	GRPA_T2	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
11/9/2024 19:07	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 19:07	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 19:07	64101	REFR_T1	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
11/9/2024 19:07	46203	DANV_T2	0	1	1	0	0	0	-2.11	-2.1	0	0	0	0	0	0
11/9/2024 19:07	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 19:08	57401	SPAN_T1	0	0	0	0	0	0	-1.07	-1.08	1	1	0	600	600	0
11/9/2024 19:08	44301	BEAV_T2	0	1	1	0	0.5	0.5	-1.16	-1.16	1	1	0	600	600	0
11/9/2024 19:08	65602	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 19:08	65603	QVIL_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
11/9/2024 19:09	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
11/9/2024 19:09	64201	KINZ_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
11/9/2024 19:09	64203	KINZ_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
11/9/2024 19:09	64204	KINZ_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
11/9/2024 19:09	63501	HEID_TBK1-2	36	36	0	0.58	0.41	-0.17	-0.39	-0.43	1	1	0	900	900	0
11/9/2024 19:09	55105	WERT_T1	0	0	0	0	0	0	-0.72	-0.71	1	1	0	900	900	0
11/9/2024 19:10	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
11/9/2024 19:10	57403	SPAN_T1	0	0	0	0	0	0	-0.04	0	0	0	0	0	0	0
11/9/2024 19:10	60101	COCA_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
11/9/2024 19:11	65602	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 19:11	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/9/2024 19:11	52403	GRPA_T2	0	0	0	0	0	0	-0.71	-0.77	0	0	0	0	0	0
11/9/2024 19:12	45501	DERR_T2	0	1	1	0	0	0	-0.85	-0.81	2	2	0	1800	1800	0
11/9/2024 19:17	40101	HUNT_T2	120	218	98	0.44	0.32	-0.12	-0.56	-0.56	0	0	0	0	0	0
11/9/2024 19:20	46004	BERW_T2	1	1	0	1.2	0.8	-0.4	-0.87	-0.9	0	0	0	0	0	0
11/9/2024 19:40	55105	WERT_T1	0	0	0	0	0	0	-0.72	-0.71	1	1	0	900	900	0
11/9/2024 19:53	45501	DERR_T2	2	0	-2	6.1	0	-6.1	-0.85	-0.83	2	2	0	1800	1800	0
11/9/2024 19:56	57401	SPAN_T1	0	0	0	0	0	0	-1.12	-1.12	1	1	0	600	600	0
11/9/2024 20:57	60101	COCA_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
11/9/2024 21:00	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
11/9/2024 21:08	46203	DANV_T2	0	0	0	0	0	0	-2.09	-2.09	0	0	0	0	0	0
11/10/2024 7:38	14601	SWHI_T1	0	0	0	0	0	0	-0.91	-0.89	0	0	0	0	0	0
11/10/2024 9:00	67503	WEWI_T2	1	1	0	5.4	6.2	0.8	-0.74	-0.81	0	0	0	0	0	0
11/10/2024 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
11/10/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
11/10/2024 11:49	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/10/2024 11:50	44201	POIN_T1	140	181	41	0.25	0.31	0.06	-4.21	-4.18	2	2	0	2400	2400	0
11/10/2024 11:51	44201	POIN_T1	140	181	41	0.25	0.31	0.06	-4.21	-4.18	2	2	0	2400	2400	0
11/10/2024 11:52	44202	POIN_T2	0	0	0	0	0	0	-0.99	-1.01	1	1	0	1200	1200	0
11/10/2024 11:53	44201	POIN_T1	140	181	41	0.25	0.31	0.06	-2.09	-2.09	1	1	0	1200	1200	0
11/10/2024 11:53	44202	POIN_T2	0	0	0	0	0	0	-0.99	-1.01	1	1	0	1200	1200	0
11/10/2024 11:54	44201	POIN_T1	140	181	41	0.25	0.31	0.06	-4.18	-4.17	2	2	0	2400	2400	0
11/10/2024 11:57	44202	POIN_T2	0	0	0	0	0	0	-0.99	-1.01	1	1	0	1200	1200	0
11/10/2024 18:34	44201	POIN_T1	122	151	29	0.28	0.28	0	-2.13	-2.12	1	1	0	1200	1200	0
11/10/2024 18:35	44201	POIN_T1	122	151	29	0.28	0.28	0	-4.26	-4.25	2	2	0	2400	2400	0
11/10/2024 18:37	44202	POIN_T2	0	0	0	0	0	0	-1.01	-1.01	1	1	0	1200	1200	0
11/10/2024 18:40	44201	POIN_T1	122	151	29	0.28	0.28	0	-2.12	-2.15	1	1	0	1200	1200	0
11/10/2024 18:40	44202	POIN_T2	0	0	0	0	0	0	-1.01	-1.01	1	1	0	1200	1200	0
11/10/2024 18:43	44201	POIN_T1	122	151	29	0.28	0.28	0	-2.12	-2.15	1	1	0	1200	1200	0
11/10/2024 18:48	44201	POIN_T1	116	174	58	0.25	0.3	0.05	-2.12	-2.15	1	1	0	1200	1200	0
11/10/2024 18:49	44201	POIN_T1	116	174	58	0.25	0.3	0.05	-2.12	-2.15	1	1	0	1200	1200	0
11/10/2024 18:49	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/10/2024 18:51	44202	POIN_T2	0	0	0	0	0	0	-1.01	-1.01	1	1	0	1200	1200	0
11/11/2024 7:35	65003	NEFF_T2	0	4	4	0	0.1	0.1	-2.06	-1.98	2	2	0	1800	1800	0
11/11/2024 7:57	60201	ATGL_T2	9	2	-7	0.11	0.15	0.04	-0.18	-0.14	0	0	0	0	0	0
11/11/2024 8:01	11801	FRAN_T2	0	0	0	0	0	0	0.15	0.07	0	0	0	0	0	0
11/11/2024 8:03	45702	LIND_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
11/11/2024 8:04	13301	ORVI_T1	0	0	0	0	0	0	-0.55	-0.53	1	1	0	600	600	0
11/11/2024 8:06	13303	ORVI_T1	0	0	0	0	0	0	1.72	1.79	0	0	0	0	0	0
11/11/2024 8:07	49803	UNIV_T1	1	1	0	5.2	4.6	-0.6	-1.24	-1.22	0	0	0	0	0	0
11/11/2024 8:12	44801	EDAN_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
11/11/2024 8:15	23901	ERMO_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
11/11/2024 8:16	44801	EDAN_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
11/11/2024 8:17	64904	MILL_T1	0	0	0	0	0	0	0.4	0.34	0	0	0	0	0	0
11/11/2024 8:17	12801	MICK_T1	0	0	0	0	0	0	0.57	0.62	0	0	0	0	0	0
11/11/2024 8:17	12803	MICK_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
11/11/2024 8:17	12807	MICK_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
11/11/2024 8:20	20802	LOPO_T1	0	0	0	0	0	0	-0.57	-0.57	1	1	0	600	600	0
11/11/2024 8:22	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 8:25	67402	WAKE_T2	0	0	0	0	0	0	0.28	0.31	1	1	0	600	600	0
11/11/2024 8:26	24105	EHAZ_T1	4	4	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
11/11/2024 8:26	24101	EHAZ_T1	1	3	2	2.4	1.9	-0.5	0	0	0	0	0	0	0	0
11/11/2024 8:26	24104	EHAZ_T1	0	0	0	0	0	0	-0.91	-0.89	1	1	0	1200	1200	0
11/11/2024 8:29	17802	GILB_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
11/11/2024 8:32	21901	HUMB_T1	0	0	0	0	0	0	-2.32	-2.32	0	0	0	0	0	0
11/11/2024 8:34	64902	MILL_T2	0	1	1	0	0.3	0.3	-0.81	-0.75	1	1	0	900	900	0
11/11/2024 8:34	64903	MILL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/11/2024 8:35	64903	MILL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/11/2024 8:35	64902	MILL_T2	0	1	1	0	0.3	0.3	-0.81	-0.75	1	1	0	900	900	0
11/11/2024 8:40	58401	MORO_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/11/2024 8:41	13303	ORVI_T1	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
11/11/2024 8:41	45302	WBER_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
11/11/2024 8:41	45303	WBER_T2	1	1	0	9.6	9.4	-0.2	0	0	0	0	0	0	0	0
11/11/2024 8:43	20603	GRWO_T2	0	0	0	0	0	0	-0.7	-0.73	1	1	0	900	900	0
11/11/2024 8:44	52402	GRPA_T2	1	5	4	0.1	0.22	0.12	-0.98	-1	0	0	0	0	0	0
11/11/2024 8:44	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/11/2024 8:44	52403	GRPA_T2	9	7	-2	0.3	0.37	0.07	0	0	0	0	0	0	0	0
11/11/2024 8:45	67501	WEWI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/11/2024 8:45	67502	WEWI_T2	37	4	-33	0.15	0.4	0.25	0	0	0	0	0	0	0	0
11/11/2024 8:45	67503	WEWI_T2	1	1	0	8.9	9	0.1	0.25	-0.6	0	0	0	0	0	0
11/11/2024 8:45	67505	WEWI_T1	0	0	0	0	0	0	-0.06	-0.02	1	1	0	900	900	0
11/11/2024 8:46	67502	WEWI_T2	37	4	-33	0.15	0.4	0.25	-0.25	-0.3	0	0	0	0	0	0
11/11/2024 8:46	67503	WEWI_T2	1	1	0	8.9	9	0.1	0	0	0	0	0	0	0	0
11/11/2024 8:46	52402	GRPA_T2	4	6	2	0.2	0.28	0.08	0	0	0	0	0	0	0	0
11/11/2024 8:46	52403	GRPA_T2	5	6	1	0.42	0.62	0.2	-0.09	-0.13	0	0	0	0	0	0
11/11/2024 8:46	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/11/2024 8:47	67502	WEWI_T2	37	4	-33	0.15	0.4	0.25	0	0	0	0	0	0	0	0
11/11/2024 8:47	67503	WEWI_T2	1	1	0	8.9	9	0.1	0.25	-0.6	0	0	0	0	0	0
11/11/2024 8:48	67502	WEWI_T2	37	4	-33	0.15	0.4	0.25	-0.25	-0.3	0	0	0	0	0	0
11/11/2024 8:48	67503	WEWI_T2	1	1	0	8.9	9	0.1	0	0	0	0	0	0	0	0
11/11/2024 8:49	65603	QVIL_T2	0	0	0	0	0	0	0.8	0.55	0	0	0	0	0	0
11/11/2024 8:49	65602	QVIL_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/11/2024 8:49	65601	QVIL_T2	0	0	0	0	0	0	-1.24	-1.12	1	1	0	900	900	0
11/11/2024 8:50	14102	TRUM_T2	0	1	1	0	2	2	-0.4	-0.41	2	2	0	1500	1500	0
11/11/2024 8:50	65802	RTWN_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
11/11/2024 8:50	65702	RVIL_T2	0	0	0	0	0	0	-1.11	-1.09	1	1	0	600	600	0
11/11/2024 8:51	65207	PRIN_T4	3	3	0	0.57	0.7	0.13	0	0	0	0	0	0	0	0
11/11/2024 8:51	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 8:51	65602	QVIL_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/11/2024 8:51	65206	PRIN_T4	1	1	0	7.7	7.3	-0.4	0	0	0	0	0	0	0	0
11/11/2024 8:51	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 8:51	65603	QVIL_T2	0	0	0	0	0	0	0.55	0.47	0	0	0	0	0	0
11/11/2024 8:52	65702	RVIL_T2	0	0	0	0	0	0	-2.18	-2.14	2	2	0	1200	1200	0
11/11/2024 8:53	65702	RVIL_T2	0	0	0	0	0	0	-1.09	-1.07	1	1	0	600	600	0
11/11/2024 8:54	67505	WEWI_T1	0	0	0	0	0	0	-0.02	-0.01	1	1	0	900	900	0
11/11/2024 8:54	67501	WEWI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/11/2024 8:56	44301	BEAV_T2	0	0	0	0	0	0	-0.24	0.26	2	1	-1	1500	600	-900
11/11/2024 9:00	45702	LIND_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/11/2024 9:00	45701	LIND_T2	0	0	0	0	0	0	-1.67	-1.66	0	0	0	0	0	0
11/11/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.46	0.39	0	0	0	0	0	0
11/11/2024 9:00	65603	QVIL_T2	0	0	0	0	0	0	0.55	0.47	0	0	0	0	0	0
11/11/2024 9:00	65602	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/11/2024 9:00	13303	ORVI_T1	0	0	0	0	0	0	1.8	1.85	0	0	0	0	0	0
11/11/2024 9:00	65003	NEFF_T2	1	3	2	0.1	0.1	0	-1.98	-1.89	2	2	0	1800	1800	0
11/11/2024 9:00	65601	QVIL_T2	0	0	0	0	0	0	-1.12	-1.18	1	1	0	900	900	0
11/11/2024 9:01	63501	HEID_TBK1-2	1	8	7	0.2	0.16	-0.04	0.05	0.03	1	1	0	900	900	0
11/11/2024 9:02	55002	NEWP_T1	6	6	0	0.88	0.7	-0.18	-0.26	-0.25	0	0	0	0	0	0
11/11/2024 9:02	55001	NEWP_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
11/11/2024 9:04	55001	NEWP_T1	0	2	2	0	0.25	0.25	-0.37	-0.35	0	0	0	0	0	0
11/11/2024 9:04	55002	NEWP_T1	6	6	0	0.88	0.7	-0.18	0	0	0	0	0	0	0	0
11/11/2024 9:04	65003	NEFF_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
11/11/2024 9:04	65001	NEFF_T2	0	0	0	0	0	0	0.61	0.67	0	0	0	0	0	0
11/11/2024 9:05	57203	ROSS_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
11/11/2024 9:06	63501	HEID_TBK1-2	1	8	7	0.2	0.16	-0.04	0.03	0.17	1	1	0	900	900	0
11/11/2024 9:06	65004	NEFF_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
11/11/2024 9:06	65003	NEFF_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
11/11/2024 9:06	57205	ROSS_T1	0	0	0	0	0	0	0.1	0.04	0	0	0	0	0	0
11/11/2024 9:07	57203	ROSS_T1	0	0	0	0	0	0	-0.42	-0.38	0	0	0	0	0	0
11/11/2024 9:07	67503	WEWI_T2	1	1	0	8.8	9	0.2	-0.65	-0.62	0	0	0	0	0	0
11/11/2024 9:07	65603	QVIL_T2	0	0	0	0	0	0	0.47	0.97	0	0	0	0	0	0
11/11/2024 9:07	13301	ORVI_T1	0	0	0	0	0	0	-0.45	-0.38	1	1	0	600	600	0
11/11/2024 9:07	65602	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/11/2024 9:07	67502	WEWI_T2	3	5	2	0.4	0.4	0	0	0	0	0	0	0	0	0
11/11/2024 9:09	20603	GRWO_T2	0	69	69	0	0.25	0.25	0.38	0.35	0	0	0	0	0	0
11/11/2024 9:10	58006	WCAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 9:10	43302	WATS_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/11/2024 9:10	43301	WATS_T2	0	1	1	0	0.1	0.1	-0.87	-0.86	1	1	0	900	900	0
11/11/2024 9:12	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 9:12	10101	ALLE_T3	1	2	1	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
11/11/2024 9:13	10602	BLGL_T2	0	0	0	0	0	0	0.49	0.59	0	0	0	0	0	0
11/11/2024 9:14	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/11/2024 9:14	54501	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 9:14	54506	ENOL_T2	0	0	0	0	0	0	0.44	0.44	1	0	-1	600	0	-600
11/11/2024 9:14	54502	ENOL_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
11/11/2024 9:14	11801	FRAN_T2	0	0	0	0	0	0	0.06	0.13	0	0	0	0	0	0
11/11/2024 9:15	63501	HEID_TBK1-2	7	5	-2	0.11	0.42	0.31	0.1	0.51	3	3	0	2700	2700	0
11/11/2024 9:16	50505	MECH_T1	0	2	2	0	0.3	0.3	-0.99	-0.99	0	0	0	0	0	0
11/11/2024 9:16	52402	GRPA_T2	4	6	2	0.3	0.23	-0.07	-0.89	-0.89	0	0	0	0	0	0
11/11/2024 9:16	52403	GRPA_T2	5	14	9	0.62	0.39	-0.23	0	0	0	0	0	0	0	0
11/11/2024 9:16	50502	MECH_T1	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
11/11/2024 9:16	50501	MECH_T1	4	4	0	1.45	1.3	-0.15	0	0	0	0	0	0	0	0
11/11/2024 9:19	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.15	0	0	0	0	0	0
11/11/2024 9:20	64101	REFR_T1	0	0	0	0	0	0	-0.42	-0.3	0	0	0	0	0	0
11/11/2024 9:21	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
11/11/2024 9:22	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
11/11/2024 9:22	66504	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/11/2024 9:22	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/11/2024 9:23	64101	REFR_T1	0	0	0	0	0	0	-0.3	-0.4	0	0	0	0	0	0
11/11/2024 9:24	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
11/11/2024 9:25	44902	SCOT_T2	0	0	0	0	0	0	-0.89	-0.91	0	0	0	0	0	0
11/11/2024 9:25	43302	WATS_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/11/2024 9:25	43301	WATS_T2	1	0	-1	0.1	0	-0.1	-0.86	-0.86	1	1	0	900	900	0
11/11/2024 9:26	43302	WATS_T2	2	2	0	0.2	0.15	-0.05	-0.55	-0.56	3	3	0	2400	2400	0
11/11/2024 9:26	43301	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/11/2024 9:26	54502	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
11/11/2024 9:26	42701	AUGU_T1	1	2	1	0.8	0.55	-0.25	0	0	2	2	0	1800	1800	0
11/11/2024 9:26	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
11/11/2024 9:26	54501	ENOL_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
11/11/2024 9:27	43302	WATS_T2	2	2	0	0.2	0.15	-0.05	-0.55	-0.56	3	3	0	2400	2400	0
11/11/2024 9:27	43301	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/11/2024 9:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 9:28	45501	DERR_T2	1	1	0	0.5	0.3	-0.2	0.76	0.75	2	2	0	1800	1800	0
11/11/2024 9:30	45501	DERR_T2	1	1	0	0.3	0.3	0	0.76	0.75	2	2	0	1800	1800	0
11/11/2024 9:32	25402	LAHA_T2	0	0	0	0	0	0	-0.8	-0.45	0	0	0	0	0	0
11/11/2024 9:33	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 9:33	65207	PRIN_T4	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
11/11/2024 9:34	55002	NEWP_T1	6	11	5	0.65	1.01	0.36	-0.21	-0.22	0	0	0	0	0	0
11/11/2024 9:34	55001	NEWP_T1	2	6	4	0.25	0.4	0.15	0	0	0	0	0	0	0	0
11/11/2024 9:35	55002	NEWP_T1	6	11	5	0.65	1.01	0.36	0	0	0	0	0	0	0	0
11/11/2024 9:35	55001	NEWP_T1	2	6	4	0.25	0.4	0.15	0	0	0	0	0	0	0	0
11/11/2024 9:35	65202	PRIN_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
11/11/2024 9:35	65205	PRIN_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
11/11/2024 9:38	55002	NEWP_T1	6	11	5	0.65	1.01	0.36	0	0	0	0	0	0	0	0
11/11/2024 9:38	55001	NEWP_T1	2	6	4	0.25	0.4	0.15	-0.76	-0.7	0	0	0	0	0	0
11/11/2024 9:39	55001	NEWP_T1	2	6	4	0.25	0.4	0.15	0	0	0	0	0	0	0	0
11/11/2024 9:39	55002	NEWP_T1	6	11	5	0.65	1.01	0.36	-0.22	-0.21	0	0	0	0	0	0
11/11/2024 9:44	41801	GOCI_T2	0	5	5	0	0.44	0.44	0	0	0	0	0	0	0	0
11/11/2024 9:44	23901	EFMO_T2	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
11/11/2024 9:45	47203	FAXO_T2	1	1	0	0.1	0.2	0.1	-0.39	-0.39	0	0	0	0	0	0
11/11/2024 9:46	63202	MGTN_T2	1	0	-1	0.3	0	-0.3	-0.03	0	0	0	0	0	0	0
11/11/2024 9:49	50504	MECH_T1	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
11/11/2024 9:49	50501	MECH_T1	4	4	0	1.3	1.63	0.33	0.19	0.28	0	0	0	0	0	0
11/11/2024 9:49	50505	MECH_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/11/2024 9:49	13302	ORVI_T2	1	1	0	0.5	0.5	0	1.03	1.07	0	0	0	0	0	0
11/11/2024 9:49	65601	QVIL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/11/2024 9:49	50502	MECH_T1	1	1	0	2.4	2.8	0.4	0	0	0	0	0	0	0	0
11/11/2024 9:49	50506	MECH_T1	0	5	5	0	0.26	0.26	0	0	0	0	0	0	0	0
11/11/2024 9:50	66502	SMAN_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
11/11/2024 9:50	66504	SMAN_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
11/11/2024 9:50	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/11/2024 9:50	66505	SMAN_T2	0	0	0	0	0	0	0.65	0.94	2	2	0	1800	1800	0
11/11/2024 9:52	14601	SWHI_T1	0	0	0	0	0	0	-0.56	-0.52	0	0	0	0	0	0
11/11/2024 9:52	66504	SMAN_T2	1	1	0	0.4	0.8	0.4	-0.93	-0.84	0	0	0	0	0	0
11/11/2024 9:52	14603	SWHI_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
11/11/2024 9:52	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/11/2024 9:52	66502	SMAN_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
11/11/2024 9:52	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 9:53	14601	SWHI_T1	0	0	0	0	0	0	-0.28	-0.26	0	0	0	0	0	0
11/11/2024 9:53	14603	SWHI_T1	0	2	2	0	0.7	0.7	-1.72	-1.7	2	2	0	1200	1200	0
11/11/2024 9:54	58001	WCAR_T1	4	4	0	0.4	0.58	0.18	0	0	0	0	0	0	0	0
11/11/2024 9:54	66504	SMAN_T2	1	1	0	0.4	0.8	0.4	-0.47	-0.42	0	0	0	0	0	0
11/11/2024 9:54	43802	SWIL_T1	0	0	0	0	0	0	-0.25	-0.24	1	1	0	600	600	0
11/11/2024 9:54	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/11/2024 9:54	58003	WCAR_T1	1	1	0	0.6	0.8	0.2	0	0.04	1	1	0	600	600	0
11/11/2024 9:54	66502	SMAN_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
11/11/2024 9:54	43304	WATS_T2	0	0	0	0	0	0	-0.73	-0.59	0	0	0	0	0	0
11/11/2024 9:54	14603	SWHI_T1	0	2	2	0	0.7	0.7	-1.72	-1.7	2	2	0	1200	1200	0
11/11/2024 9:54	43801	SWIL_T1	3	1	-2	2.7	5.2	2.5	0	0	0	0	0	0	0	0
11/11/2024 9:54	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 9:55	66504	SMAN_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
11/11/2024 9:55	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/11/2024 9:55	57205	ROSS_T1	1	2	1	0.1	0.35	0.25	0.09	0.16	0	0	0	0	0	0
11/11/2024 9:55	58803	COCO_T1	1	1	0	2.3	2.5	0.2	0	0	0	0	0	0	0	0
11/11/2024 9:55	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
11/11/2024 9:55	14603	SWHI_T1	0	2	2	0	0.7	0.7	-1.72	-1.7	2	2	0	1200	1200	0
11/11/2024 9:55	66502	SMAN_T2	1	2	1	0.1	0.4	0.3	0.35	0.24	0	0	0	0	0	0
11/11/2024 9:56	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 9:56	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 9:56	10805	CHHI_T2	1	2	1	7.8	4.05	-3.75	-0.95	-0.84	0	0	0	0	0	0
11/11/2024 9:56	14603	SWHI_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
11/11/2024 9:57	44801	EDAN_T2	3	2	-1	0.57	0.85	0.28	-0.48	-0.47	0	0	0	0	0	0
11/11/2024 9:59	58803	COCO_T1	1	1	0	2.3	2.5	0.2	0	0	0	0	0	0	0	0
11/11/2024 10:00	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 10:00	10801	CHHI_T1	0	5	5	0	0.4	0.4	-1	-1	1	1	0	900	900	0
11/11/2024 10:01	17802	GILB_T1	2	3	1	0.35	0.7	0.35	0.06	0.02	0	0	0	0	0	0
11/11/2024 10:04	64902	MILL_T2	0	0	0	0	0	0	0.23	0.26	0	0	0	0	0	0
11/11/2024 10:06	57401	SPAN_T1	2	4	2	0.95	2.33	1.38	0	0	0	0	0	0	0	0
11/11/2024 10:06	57403	SPAN_T1	2	5	3	0.1	0.2	0.1	-0.05	-0.06	0	0	0	0	0	0
11/11/2024 10:08	42701	AUGU_T1	1	2	1	0.8	0.65	-0.15	0	0	4	4	0	3600	3600	0
11/11/2024 10:08	41902	REED_T1	0	1	1	0	0.3	0.3	0.95	0.87	0	0	0	0	0	0
11/11/2024 10:08	60201	ATGL_T2	0	1	1	0	0.2	0.2	-0.02	-0.09	0	0	0	0	0	0
11/11/2024 10:09	66502	SMAN_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
11/11/2024 10:09	66501	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
11/11/2024 10:09	66504	SMAN_T2	1	1	0	0.8	0.8	0	-0.42	-0.5	0	0	0	0	0	0
11/11/2024 10:09	42701	AUGU_T1	1	2	1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
11/11/2024 10:12	60201	ATGL_T2	0	1	1	0	0.2	0.2	-0.02	-0.09	0	0	0	0	0	0
11/11/2024 10:16	10801	CHHI_T1	5	5	0	0.32	0.42	0.1	-1	-1.01	1	1	0	900	900	0
11/11/2024 10:16	45702	LIND_T2	1	2	1	0.4	0.35	-0.05	-0.55	-0.48	0	0	0	0	0	0
11/11/2024 10:16	44801	EDAN_T2	2	3	1	0.7	0.7	0	-0.47	-0.49	0	0	0	0	0	0
11/11/2024 10:19	45702	LIND_T2	1	2	1	0.4	0.35	-0.05	-0.55	-0.48	0	0	0	0	0	0
11/11/2024 10:24	66502	SMAN_T2	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
11/11/2024 10:24	66505	SMAN_T2	0	0	0	0	0	0	0.39	0.56	1	1	0	900	900	0
11/11/2024 10:24	66504	SMAN_T2	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
11/11/2024 10:26	67503	WEWI_T2	1	1	0	8.8	8.8	0	-0.46	-0.46	0	0	0	0	0	0
11/11/2024 10:26	67502	WEWI_T2	3	4	1	0.7	0.65	-0.05	0.15	0.18	0	0	0	0	0	0
11/11/2024 10:28	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 10:28	53501	EVIL_T2	4	4	0	0.83	0.75	-0.08	-0.04	-0.25	2	2	0	1200	1200	0
11/11/2024 10:29	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 10:29	53501	EVIL_T2	4	4	0	0.83	0.75	-0.08	-0.08	-0.5	4	4	0	2400	2400	0
11/11/2024 10:30	53502	EVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/11/2024 10:30	53501	EVIL_T2	3	3	0	0.7	0.93	0.23	-0.04	-0.25	2	2	0	1200	1200	0
11/11/2024 10:31	53502	EVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/11/2024 10:31	53501	EVIL_T2	3	3	0	0.7	0.93	0.23	-0.08	-0.5	4	4	0	2400	2400	0
11/11/2024 10:33	63501	HEID_TBK1-2	5	9	4	0.26	0.36	0.1	0	0.03	1	1	0	900	900	0
11/11/2024 10:36	21206	ECAR_T2	1	1	0	7.6	7.2	-0.4	0	0	0	0	0	0	0	0
11/11/2024 10:36	21204	ECAR_T2	1	1	0	0	0	0	-0.69	-0.66	0	0	0	0	0	0
11/11/2024 10:38	57403	SPAN_T1	5	4	-1	0.2	0.28	0.08	-0.05	-0.04	0	0	0	0	0	0
11/11/2024 10:38	57401	SPAN_T1	3	2	-1	2.33	0.9	-1.43	0	0	0	0	0	0	0	0
11/11/2024 10:40	43301	WATS_T2	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
11/11/2024 10:44	61001	DONV_T1	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
11/11/2024 10:44	43304	WATS_T2	0	0	0	0	0	0	-0.39	-0.33	0	0	0	0	0	0
11/11/2024 10:45	46602	LACR_T1	1	1	0	0.8	0.9	0.1	-1.23	-1.27	0	0	0	0	0	0
11/11/2024 10:48	65503	MOJO_T2	0	0	0	0	0	0	-0.99	-1	1	1	0	900	900	0
11/11/2024 10:49	46602	LACR_T1	1	1	0	0.8	0.9	0.1	-1.23	-1.27	0	0	0	0	0	0
11/11/2024 10:50	64305	LINC_T1	0	1	1	0	0.1	0.1	-0.08	-0.14	0	0	0	0	0	0
11/11/2024 10:53	67401	WAKE_T2	1	2	1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
11/11/2024 10:53	67402	WAKE_T2	0	0	0	0	0	0	0.36	0.4	1	1	0	600	600	0
11/11/2024 10:54	67503	WEWI_T2	1	1	0	8.8	8.7	-0.1	0	0	0	0	0	0	0	0
11/11/2024 10:54	67502	WEWI_T2	4	4	0	0.55	0.8	0.25	-0.2	-0.16	0	0	0	0	0	0
11/11/2024 10:57	23901	EFMO_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
11/11/2024 10:57	57101	SPHI_T2	6	6	0	0.93	1.3	0.37	0	0	0	0	0	0	0	0
11/11/2024 10:57	57106	SPHI_T2	3	4	1	1.43	1.15	-0.28	0	0	0	0	0	0	0	0
11/11/2024 10:57	57103	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/11/2024 10:57	57104	SPHI_T2	3	4	1	0.7	3.28	2.58	-0.6	-0.57	0	0	0	0	0	0
11/11/2024 10:58	48902	FOSP_T2	0	1	1	0	0.2	0.2	0.58	1.01	0	0	0	0	0	0
11/11/2024 10:58	48901	FOSP_T2	0	0	0	0	0	0	0.03	0	1	1	0	600	600	0
11/11/2024 10:59	48902	FOSP_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 10:59	48901	FOSP_T2	0	0	0	0	0	0	0.03	0	1	1	0	600	600	0
11/11/2024 11:00	48901	FOSP_T2	0	2	2	0	0.2	0.2	0.07	0	2	2	0	1200	1200	0
11/11/2024 11:00	48902	FOSP_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/11/2024 11:01	57702	PAXT_T1	1	1	0	0.5	0.6	0.1	-0.08	-0.08	0	0	0	0	0	0
11/11/2024 11:02	48902	FOSP_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/11/2024 11:02	46802	HEPB_T1	1	1	0	1.3	1.2	-0.1	-0.3	-0.28	0	0	0	0	0	0
11/11/2024 11:02	57104	SPHI_T2	4	4	0	3.15	1.95	-1.2	-0.6	-0.57	0	0	0	0	0	0
11/11/2024 11:02	48901	FOSP_T2	0	2	2	0	0.2	0.2	0.03	0	1	1	0	600	600	0
11/11/2024 11:02	57106	SPHI_T2	4	4	0	1.13	1.28	0.15	0	0	0	0	0	0	0	0
11/11/2024 11:02	57103	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/11/2024 11:02	57101	SPHI_T2	6	7	1	1.05	1.13	0.08	0	0	0	0	0	0	0	0
11/11/2024 11:09	42701	AUGU_T1	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/11/2024 11:11	42701	AUGU_T1	2	2	0	0.5	0.8	0.3	0	0	2	2	0	1800	1800	0
11/11/2024 11:12	42701	AUGU_T1	2	2	0	0.5	0.8	0.3	0	0	2	2	0	1800	1800	0
11/11/2024 11:14	45801	HEGI_T1	0	0	0	0	0	0	-0.03	0.01	1	1	0	900	900	0
11/11/2024 11:15	52402	GRPA_T2	13	15	2	0.47	0.66	0.19	-0.79	-0.87	0	0	0	0	0	0
11/11/2024 11:15	48902	FOSP_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/11/2024 11:15	48901	FOSP_T2	0	2	2	0	0.2	0.2	0	-0.02	1	1	0	600	600	0
11/11/2024 11:15	52401	GRPA_T2	6	6	0	0.2	0.37	0.17	0	0	0	0	0	0	0	0
11/11/2024 11:15	52403	GRPA_T2	10	20	10	0.64	0.71	0.07	0	0	0	0	0	0	0	0
11/11/2024 11:16	48902	FOSP_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/11/2024 11:16	48901	FOSP_T2	0	2	2	0	0.2	0.2	0	-0.02	1	1	0	600	600	0
11/11/2024 11:17	48901	FOSP_T2	0	2	2	0	0.2	0.2	0	-0.02	1	1	0	600	600	0
11/11/2024 11:17	48902	FOSP_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/11/2024 11:17	45702	LIND_T2	1	37	36	1.1	0.22	-0.88	-0.37	-0.57	0	0	0	0	0	0
11/11/2024 11:18	52401	GRPA_T2	6	6	0	0.2	0.37	0.17	0	0	0	0	0	0	0	0
11/11/2024 11:18	52402	GRPA_T2	13	15	2	0.47	0.66	0.19	0	0	0	0	0	0	0	0
11/11/2024 11:18	52403	GRPA_T2	10	20	10	0.64	0.71	0.07	0	0	0	0	0	0	0	0
11/11/2024 11:21	58402	MORO_T1	24	12	-12	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
11/11/2024 11:21	58401	MORO_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/11/2024 11:22	14802	TREI_T2	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
11/11/2024 11:22	14801	TREI_T2	8	5	-3	0.34	0.34	0	0.26	0.28	0	0	0	0	0	0
11/11/2024 11:23	57203	ROSS_T1	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
11/11/2024 11:23	14802	TREI_T2	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
11/11/2024 11:23	14801	TREI_T2	8	5	-3	0.34	0.34	0	0.26	0.28	0	0	0	0	0	0
11/11/2024 11:23	57201	ROSS_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/11/2024 11:23	58202	NEWV_T1	0	0	0	0	0	0	-0.02	-0.16	0	0	0	0	0	0
11/11/2024 11:23	57205	ROSS_T1	2	3	1	1	0.77	-0.23	0	0	0	0	0	0	0	0
11/11/2024 11:24	67106	SPRI_T2	0	8	8	0	0.24	0.24	-0.01	-0.01	1	1	0	900	900	0
11/11/2024 11:25	67106	SPRI_T2	0	8	8	0	0.24	0.24	0	0	0	0	0	0	0	0
11/11/2024 11:26	67106	SPRI_T2	0	8	8	0	0.24	0.24	-0.01	-0.01	1	1	0	900	900	0
11/11/2024 11:31	50503	MECH_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 11:31	50501	MECH_T1	4	4	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
11/11/2024 11:31	63601	LETO_T1	1	4	3	0.1	0.5	0.4	1.39	1.46	0	0	0	0	0	0
11/11/2024 11:31	50505	MECH_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/11/2024 11:31	50502	MECH_T1	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
11/11/2024 11:31	50506	MECH_T1	1	2	1	0.1	0.15	0.05	-0.01	0.2	1	1	0	900	900	0
11/11/2024 11:31	50504	MECH_T1	2	3	1	0.2	0.2	0	0	0	0	0	0	0	0	0
11/11/2024 11:33	50505	MECH_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/11/2024 11:33	50504	MECH_T1	2	3	1	0.2	0.2	0	0	0	0	0	0	0	0	0
11/11/2024 11:33	50503	MECH_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 11:33	63601	LETO_T1	1	4	3	0.1	0.5	0.4	1.39	1.46	0	0	0	0	0	0
11/11/2024 11:33	50501	MECH_T1	4	4	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
11/11/2024 11:33	50506	MECH_T1	1	2	1	0.1	0.15	0.05	-0.01	0.2	1	1	0	900	900	0
11/11/2024 11:33	50502	MECH_T1	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
11/11/2024 11:34	46506	LOHA_T1	3	3	0	5.13	5.03	-0.1	0	0	0	0	0	0	0	0
11/11/2024 11:34	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
11/11/2024 11:34	46504	LOHA_T1	2	2	0	1.3	1.15	-0.15	0	0	0	0	0	0	0	0
11/11/2024 11:35	46506	LOHA_T1	3	3	0	5.13	5.03	-0.1	0	0	0	0	0	0	0	0
11/11/2024 11:35	46504	LOHA_T1	2	2	0	1.3	1.15	-0.15	0	0	0	0	0	0	0	0
11/11/2024 11:35	54602	SUMM_T2	16	13	-3	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/11/2024 11:35	54601	SUMM_T2	11	13	2	0.51	0.45	-0.06	-2.88	-2.86	2	2	0	2100	2100	0
11/11/2024 11:35	50505	MECH_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/11/2024 11:35	50503	MECH_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 11:35	50501	MECH_T1	4	4	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
11/11/2024 11:35	50506	MECH_T1	1	2	1	0.1	0.15	0.05	-0.01	0.2	1	1	0	900	900	0
11/11/2024 11:35	50504	MECH_T1	2	3	1	0.2	0.2	0	0	0	0	0	0	0	0	0
11/11/2024 11:35	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
11/11/2024 11:35	50502	MECH_T1	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
11/11/2024 11:36	60501	NMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
11/11/2024 11:36	60502	NMAN_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
11/11/2024 11:36	60504	NMAN_T2	2	3	1	0.8	0.73	-0.07	0	0	0	0	0	0	0	0
11/11/2024 11:37	60301	TWVA_T2	0	0	0	0	0	0	-3.66	-3.84	4	4	0	3600	3600	0
11/11/2024 11:37	54601	SUMM_T2	11	13	2	0.51	0.45	-0.06	-2.86	-2.91	2	2	0	2100	2100	0
11/11/2024 11:37	54602	SUMM_T2	16	13	-3	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/11/2024 11:39	54602	SUMM_T2	16	13	-3	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/11/2024 11:39	54601	SUMM_T2	11	13	2	0.51	0.45	-0.06	-2.86	-2.91	2	2	0	2100	2100	0
11/11/2024 11:41	64801	MONE_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/11/2024 11:41	67503	WEWI_T2	1	1	0	8.2	8.8	0.6	0	0	0	0	0	0	0	0
11/11/2024 11:41	40303	TAMA_T3	0	2	2	0	0.15	0.15	2.16	2.07	0	0	0	0	0	0
11/11/2024 11:41	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 11:41	40302	TAMA_T3	6	7	1	0.32	0.39	0.07	0	0	0	0	0	0	0	0
11/11/2024 11:41	67502	WEWI_T2	6	7	1	0.42	0.57	0.15	-0.16	-0.19	0	0	0	0	0	0
11/11/2024 11:41	64802	MONE_T2	2	74	72	1.45	0.47	-0.98	-0.01	-0.01	0	0	0	0	0	0
11/11/2024 11:43	64802	MONE_T2	2	74	72	1.45	0.47	-0.98	-0.01	-0.01	0	0	0	0	0	0
11/11/2024 11:43	64801	MONE_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/11/2024 11:45	67201	TEHI_T1	2	0	-2	0.15	0	-0.15	0.92	0.96	1	1	0	900	900	0
11/11/2024 11:47	48902	FOSP_T2	1	1	0	0.2	0.1	-0.1	0.58	0.46	0	0	0	0	0	0
11/11/2024 11:47	48901	FOSP_T2	1	4	3	0.1	0.47	0.37	0	0	0	0	0	0	0	0
11/11/2024 11:49	48901	FOSP_T2	1	4	3	0.1	0.47	0.37	-0.02	0.07	1	1	0	600	600	0
11/11/2024 11:49	48902	FOSP_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/11/2024 11:50	60502	NMAN_T2	0	5	5	0	0.28	0.28	-0.22	-0.33	0	0	0	0	0	0
11/11/2024 11:50	60504	NMAN_T2	3	3	0	0.73	0.8	0.07	0	0	0	0	0	0	0	0
11/11/2024 11:50	60501	NMAN_T2	2	9	7	0.35	0.14	-0.21	0	0	0	0	0	0	0	0
11/11/2024 11:52	60501	NMAN_T2	2	9	7	0.35	0.14	-0.21	0	0	0	0	0	0	0	0
11/11/2024 11:52	60502	NMAN_T2	0	5	5	0	0.28	0.28	0	0	0	0	0	0	0	0
11/11/2024 11:52	60504	NMAN_T2	3	3	0	0.73	0.8	0.07	0	0	0	0	0	0	0	0
11/11/2024 11:53	67402	WAKE_T2	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
11/11/2024 11:53	67401	WAKE_T2	3	4	1	0.23	0.45	0.22	-1.09	-1.11	0	0	0	0	0	0
11/11/2024 11:53	20603	GRWO_T2	59	151	92	0.26	0.29	0.03	0	0	0	0	0	0	0	0
11/11/2024 11:53	20601	GRWO_T2	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
11/11/2024 11:54	54602	SUMM_T2	13	16	3	0.2	0.31	0.11	0	0	0	0	0	0	0	0
11/11/2024 11:54	20603	GRWO_T2	59	151	92	0.26	0.29	0.03	0.4	0.4	0	0	0	0	0	0
11/11/2024 11:54	54601	SUMM_T2	12	13	1	0.4	0.58	0.18	-2.91	-2.96	2	2	0	2100	2100	0
11/11/2024 11:55	67402	WAKE_T2	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
11/11/2024 11:55	67401	WAKE_T2	3	4	1	0.23	0.45	0.22	-1.09	-1.11	0	0	0	0	0	0
11/11/2024 11:55	60101	COCA_T1	1	1	0	0.4	0.3	-0.1	0.31	0.26	0	0	0	0	0	0
11/11/2024 11:58	54504	ENOL_T2	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
11/11/2024 11:58	54501	ENOL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
11/11/2024 11:58	54505	ENOL_T2	2	2	0	0.95	1.15	0.2	-1.42	-1.41	1	1	0	600	600	0
11/11/2024 11:58	54502	ENOL_T2	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
11/11/2024 11:59	54502	ENOL_T2	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
11/11/2024 11:59	54504	ENOL_T2	1	2	1	0.3	0.35	0.05	-1.15	-1.14	1	1	0	600	600	0
11/11/2024 11:59	54505	ENOL_T2	2	2	0	0.95	1.15	0.2	0	0	0	0	0	0	0	0
11/11/2024 11:59	54501	ENOL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
11/11/2024 11:59	60101	COCA_T1	1	1	0	0.4	0.3	-0.1	0.31	0.26	0	0	0	0	0	0
11/11/2024 12:00	54501	ENOL_T2	3	3	0	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/11/2024 12:00	54505	ENOL_T2	2	2	0	1.05	1.05	0	-1.42	-1.41	1	1	0	600	600	0
11/11/2024 12:00	54504	ENOL_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
11/11/2024 12:00	54502	ENOL_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/11/2024 12:01	54502	ENOL_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/11/2024 12:01	23403	HONE_T1	0	0	0	0	0	0	-0.72	-0.69	0	0	0	0	0	0
11/11/2024 12:01	54504	ENOL_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
11/11/2024 12:01	54501	ENOL_T2	3	3	0	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/11/2024 12:01	54505	ENOL_T2	2	2	0	1.05	1.05	0	-1.42	-1.41	1	1	0	600	600	0
11/11/2024 12:02	20801	LOPO_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
11/11/2024 12:02	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
11/11/2024 12:04	67103	SPRI_T1	2	2	0	0.2	0.25	0.05	-1.89	-1.99	0	0	0	0	0	0
11/11/2024 12:04	48901	FOSP_T2	2	4	2	0.15	0.38	0.23	0	0	0	0	0	0	0	0
11/11/2024 12:04	48902	FOSP_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
11/11/2024 12:05	48901	FOSP_T2	2	4	2	0.15	0.38	0.23	0.07	0	1	1	0	600	600	0
11/11/2024 12:05	48902	FOSP_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
11/11/2024 12:08	26002	WDAM_T1	2	2	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
11/11/2024 12:09	44302	BEAV_T2	5	9	4	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/11/2024 12:09	54603	SUMM_T2	0	0	0	0	0	0	-0.18	-0.21	1	1	0	900	900	0
11/11/2024 12:09	44301	BEAV_T2	1	1	0	0.3	0.2	-0.1	-0.69	-0.65	2	2	0	1500	1500	0
11/11/2024 12:09	54601	SUMM_T2	13	13	0	0.44	0.58	0.14	0	0	0	0	0	0	0	0
11/11/2024 12:09	54602	SUMM_T2	7	16	9	0.19	0.31	0.12	0	0	0	0	0	0	0	0
11/11/2024 12:10	44302	BEAV_T2	5	9	4	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/11/2024 12:10	44301	BEAV_T2	1	1	0	0.3	0.2	-0.1	-1.38	-1.3	4	4	0	3000	3000	0
11/11/2024 12:11	44302	BEAV_T2	5	9	4	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/11/2024 12:11	44301	BEAV_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/11/2024 12:11	55105	WERT_T1	1	2	1	0.1	0.15	0.05	-0.69	-0.76	1	1	0	900	900	0
11/11/2024 12:12	44302	BEAV_T2	5	9	4	0.5	0.6	0.1	0.31	0.24	0	0	0	0	0	0
11/11/2024 12:12	44301	BEAV_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/11/2024 12:13	44301	BEAV_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/11/2024 12:13	44502	HAMI_T2	1	1	0	3	3.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 12:13	44302	BEAV_T2	5	9	4	0.5	0.6	0.1	0.62	0.48	0	0	0	0	0	0
11/11/2024 12:13	44505	HAMI_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
11/11/2024 12:14	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	2	2	0	1800	1800	0
11/11/2024 12:14	54603	SUMM_T2	0	0	0	0	0	0	-0.18	-0.21	1	1	0	900	900	0
11/11/2024 12:14	44502	HAMI_T2	1	1	0	3	3.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 12:14	54601	SUMM_T2	13	13	0	0.44	0.58	0.14	0	0	0	0	0	0	0	0
11/11/2024 12:14	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 12:14	54602	SUMM_T2	7	16	9	0.19	0.31	0.12	0	0	0	0	0	0	0	0
11/11/2024 12:14	40801	EXCH_T2	2	3	1	0.2	0.23	0.03	-0.49	0.79	1	0	-1	1200	0	-1200
11/11/2024 12:14	40802	EXCH_T2	1	0	-1	0.6	0	-0.6	0.18	0.12	0	0	0	0	0	0
11/11/2024 12:16	48902	FOSP_T2	1	2	1	0.1	0.35	0.25	0.44	0.37	0	0	0	0	0	0
11/11/2024 12:16	48901	FOSP_T2	3	2	-1	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
11/11/2024 12:16	40801	EXCH_T2	3	0	-3	0.23	0	-0.23	-0.49	0.79	1	0	-1	1200	0	-1200
11/11/2024 12:17	44502	HAMI_T2	1	1	0	2.9	3.2	0.3	0	0	0	0	0	0	0	0
11/11/2024 12:17	44505	HAMI_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
11/11/2024 12:20	55002	NEWP_T1	13	11	-2	0.92	1.25	0.33	-0.22	-0.21	0	0	0	0	0	0
11/11/2024 12:20	55001	NEWP_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
11/11/2024 12:21	40303	TAMA_T3	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/11/2024 12:21	40302	TAMA_T3	7	9	2	0.43	0.56	0.13	0	0	0	0	0	0	0	0
11/11/2024 12:21	40301	TAMA_T3	1	2	1	0	0.1	0.1	2.77	2.12	1	2	1	1200	1800	600
11/11/2024 12:22	55002	NEWP_T1	13	11	-2	0.92	1.25	0.33	0	0	0	0	0	0	0	0
11/11/2024 12:22	55001	NEWP_T1	2	1	-1	0.15	0.2	0.05	-0.2	-0.2	0	0	0	0	0	0
11/11/2024 12:26	67402	WAKE_T2	2	3	1	0.2	0.27	0.07	0.4	0.4	1	1	0	600	600	0
11/11/2024 12:26	60803	BUCK_T1	12	12	0	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
11/11/2024 12:26	67401	WAKE_T2	3	4	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
11/11/2024 12:26	60801	BUCK_T1	22	15	-7	0.2	0.17	-0.03	-0.18	-0.16	0	0	0	0	0	0
11/11/2024 12:26	44904	SCOT_T1	0	0	0	0	0	0	0.75	0.65	0	0	0	0	0	0
11/11/2024 12:26	58006	WCAR_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/11/2024 12:26	58002	WCAR_T2	13	14	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
11/11/2024 12:27	55105	WERT_T1	2	2	0	0.15	0.15	0	-0.76	-0.76	1	1	0	900	900	0
11/11/2024 12:29	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 12:29	63602	LETO_T1	7	3	-4	0.11	0.27	0.16	-0.41	-0.36	0	0	0	0	0	0
11/11/2024 12:29	63601	LETO_T1	5	8	3	0.54	0.73	0.19	0	0	0	0	0	0	0	0
11/11/2024 12:29	17804	GILB_T2	2	1	-1	0.4	1.1	0.7	-0.62	-0.62	0	0	0	0	0	0
11/11/2024 12:29	44502	HAMI_T2	1	1	0	2.9	3.2	0.3	0	0	0	0	0	0	0	0
11/11/2024 12:29	17805	GILB_T2	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
11/11/2024 12:30	44502	HAMI_T2	1	1	0	3.2	2.9	-0.3	0	0	0	0	0	0	0	0
11/11/2024 12:30	44505	HAMI_T2	0	0	0	0	0	0	0.62	0.58	0	0	0	0	0	0
11/11/2024 12:33	44505	HAMI_T2	0	0	0	0	0	0	0.62	0.58	0	0	0	0	0	0
11/11/2024 12:33	44502	HAMI_T2	1	1	0	3.2	2.9	-0.3	0	0	0	0	0	0	0	0
11/11/2024 12:34	63602	LETO_T1	2	4	2	0.2	0.25	0.05	-0.41	-0.36	0	0	0	0	0	0
11/11/2024 12:34	60502	NMAN_T2	6	6	0	0.18	0.22	0.04	-0.09	-0.05	0	0	0	0	0	0
11/11/2024 12:34	60501	NMAN_T2	37	43	6	0.21	0.21	0	0	0	0	0	0	0	0	0
11/11/2024 12:34	60504	NMAN_T2	3	3	0	1.13	1.13	0	0	0	0	0	0	0	0	0
11/11/2024 12:34	63601	LETO_T1	8	8	0	0.73	0.75	0.02	0	0	0	0	0	0	0	0
11/11/2024 12:34	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.2	0	0	0	0	0	0
11/11/2024 12:36	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
11/11/2024 12:37	14704	TREX_T1	1	1	0	4.9	4.6	-0.3	0	0	0	0	0	0	0	0
11/11/2024 12:37	14705	TREX_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
11/11/2024 12:38	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 12:38	64101	REFR_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
11/11/2024 12:39	10705	CATA_T2	1	1	0	1.9	1.5	-0.4	-0.94	-0.95	1	1	0	900	900	0
11/11/2024 12:40	57205	ROSS_T1	3	3	0	0.63	0.67	0.04	0	0	0	0	0	0	0	0
11/11/2024 12:40	57201	ROSS_T1	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/11/2024 12:40	10705	CATA_T2	1	1	0	1.9	1.5	-0.4	-0.94	-0.95	1	1	0	900	900	0
11/11/2024 12:40	57203	ROSS_T1	0	0	0	0	0	0	-0.28	-0.34	0	0	0	0	0	0
11/11/2024 12:41	43301	WATS_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
11/11/2024 12:42	45502	DERR_T2	0	0	0	0	0	0	0.17	0.16	1	1	0	300	300	0
11/11/2024 12:43	10705	CATA_T2	1	1	0	1.9	1.5	-0.4	-2.82	-2.85	3	3	0	2700	2700	0
11/11/2024 12:44	10705	CATA_T2	1	1	0	1.9	1.5	-0.4	-0.94	-0.95	1	1	0	900	900	0
11/11/2024 12:45	10705	CATA_T2	1	1	0	1.5	0.9	-0.6	-0.94	-0.95	1	1	0	900	900	0
11/11/2024 12:51	58401	MORO_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/11/2024 12:52	58402	MORO_T1	0	0	0	0	0	0	0	0	2	3	1	1500	2400	900
11/11/2024 12:53	26001	WDAM_T1	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
11/11/2024 12:53	26002	WDAM_T1	2	3	1	0.65	0.93	0.28	0	0	0	0	0	0	0	0
11/11/2024 12:53	45303	WBER_T2	1	1	0	9.8	9.8	0	0	0	0	0	0	0	0	0
11/11/2024 12:53	45302	WBER_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
11/11/2024 12:54	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 12:56	58401	MORO_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/11/2024 13:02	63602	LETO_T1	4	2	-2	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
11/11/2024 13:02	63601	LETO_T1	8	4	-4	0.75	0.4	-0.35	1.34	1.2	0	0	0	0	0	0
11/11/2024 13:06	10705	CATA_T2	1	1	0	0.7	1.7	1	-0.97	-1.01	1	1	0	900	900	0
11/11/2024 13:06	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/11/2024 13:11	58002	WCAR_T2	3	7	4	0.27	0.21	-0.06	0	0	0	0	0	0	0	0
11/11/2024 13:11	58006	WCAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 13:23	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/11/2024 13:23	58402	MORO_T1	0	0	0	0	0	0	0	0	3	3	0	2400	2400	0
11/11/2024 13:24	58202	NEWV_T1	0	0	0	0	0	0	-0.31	-0.35	0	0	0	0	0	0
11/11/2024 13:24	28102	TWLA_T2	3	9	6	0.23	0.24	0.01	0.17	0.17	0	0	0	0	0	0
11/11/2024 13:25	67401	WAKE_T2	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
11/11/2024 13:25	67402	WAKE_T2	1	0	-1	0.3	0	-0.3	0.43	0.42	1	1	0	600	600	0
11/11/2024 13:28	58402	MORO_T1	0	0	0	0	0	0	0	0	3	3	0	2400	2400	0
11/11/2024 13:28	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/11/2024 13:35	64101	REFR_T1	0	0	0	0	0	0	-0.26	-0.36	0	0	0	0	0	0
11/11/2024 13:36	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
11/11/2024 13:37	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
11/11/2024 13:39	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
11/11/2024 13:53	14802	TREI_T2	10	11	1	0.16	0.18	0.02	0.65	0.56	0	0	0	0	0	0
11/11/2024 13:53	14801	TREI_T2	11	32	21	0.31	0.22	-0.09	0	0	0	0	0	0	0	0
11/11/2024 13:54	60201	ATGL_T2	0	1	1	0	0.1	0.1	0.05	0.01	0	0	0	0	0	0
11/11/2024 13:55	28102	TWLA_T2	6	14	8	0.23	0.44	0.21	0.17	0.17	0	0	0	0	0	0
11/11/2024 13:57	10702	CATA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
11/11/2024 13:57	10707	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/11/2024 13:57	10705	CATA_T2	1	1	0	2	1.7	-0.3	-0.93	-0.94	1	1	0	900	900	0
11/11/2024 13:57	10701	CATA_T2	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
11/11/2024 13:58	67201	BREC_T1	0	2	2	0	0.35	0.35	-1.13	-1.15	4	4	0	2400	2400	0
11/11/2024 13:59	10705	CATA_T2	1	1	0	2	1.7	-0.3	-0.93	-0.94	1	1	0	900	900	0
11/11/2024 13:59	10701	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 13:59	10702	CATA_T2	1	1	0	0.6	0.8	0.2	-0.8	-0.82	0	0	0	0	0	0
11/11/2024 13:59	10707	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/11/2024 14:00	10705	CATA_T2	1	1	0	1.5	1.7	0.2	-1.86	-1.89	2	2	0	1800	1800	0
11/11/2024 14:00	10707	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/11/2024 14:00	13101	NHAM_T1	0	0	0	0	0	0	-2.59	-2.48	2	2	0	2400	2400	0
11/11/2024 14:00	10702	CATA_T2	1	1	0	0.8	0.8	0	-0.8	-0.82	0	0	0	0	0	0
11/11/2024 14:01	10705	CATA_T2	1	1	0	1.5	1.7	0.2	-3.73	-3.78	4	4	0	3600	3600	0
11/11/2024 14:01	10707	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/11/2024 14:01	10702	CATA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/11/2024 14:03	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 14:03	50505	MECH_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/11/2024 14:03	50502	MECH_T1	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
11/11/2024 14:03	50506	MECH_T1	0	1	1	0	0.2	0.2	0.02	-0.01	1	1	0	900	900	0
11/11/2024 14:03	50504	MECH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/11/2024 14:03	50501	MECH_T1	4	4	0	0.9	0.95	0.05	0	0	0	0	0	0	0	0
11/11/2024 14:04	50506	MECH_T1	0	1	1	0	0.2	0.2	0.02	-0.01	1	1	0	900	900	0
11/11/2024 14:04	50505	MECH_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/11/2024 14:04	50502	MECH_T1	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
11/11/2024 14:04	50501	MECH_T1	4	4	0	0.9	0.95	0.05	0	0	0	0	0	0	0	0
11/11/2024 14:04	50504	MECH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/11/2024 14:05	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
11/11/2024 14:06	50501	MECH_T1	4	4	0	0.9	0.95	0.05	0	0	0	0	0	0	0	0
11/11/2024 14:06	50502	MECH_T1	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
11/11/2024 14:06	50506	MECH_T1	0	1	1	0	0.2	0.2	-0.01	-0.08	1	1	0	900	900	0
11/11/2024 14:06	50505	MECH_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/11/2024 14:06	50504	MECH_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/11/2024 14:07	64101	REFR_T1	0	0	0	0	0	0	-0.45	-0.6	0	0	0	0	0	0
11/11/2024 14:08	64101	REFR_T1	0	0	0	0	0	0	-0.45	-0.6	0	0	0	0	0	0
11/11/2024 14:09	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
11/11/2024 14:16	60803	BUCK_T1	14	10	-4	0.17	0.17	0	0	0	0	0	0	0	0	0
11/11/2024 14:16	60801	BUCK_T1	2	1	-1	0.25	0.1	-0.15	0.03	0.08	0	0	0	0	0	0
11/11/2024 14:17	14802	TREI_T2	4	10	6	0.15	0.2	0.05	0.28	0.31	0	0	0	0	0	0
11/11/2024 14:17	14801	TREI_T2	25	26	1	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
11/11/2024 14:24	44901	SCOT_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
11/11/2024 14:29	17805	GILB_T2	1	0	-1	0.4	0	-0.4	-0.12	-0.16	0	0	0	0	0	0
11/11/2024 14:29	17804	GILB_T2	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
11/11/2024 14:31	63601	LETO_T1	1	1	0	0.2	0.1	-0.1	1.68	1.61	0	0	0	0	0	0
11/11/2024 14:34	21901	HUMB_T1	0	0	0	0	0	0	-2.32	-2.34	0	0	0	0	0	0
11/11/2024 14:34	65207	PRIN_T4	1	7	6	0.6	0.2	-0.4	0	0	2	2	0	1800	1800	0
11/11/2024 14:35	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
11/11/2024 14:42	67401	WAKE_T2	0	2	2	0	0.15	0.15	-1.06	-1.07	0	0	0	0	0	0
11/11/2024 14:42	67402	WAKE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/11/2024 14:43	67401	WAKE_T2	0	2	2	0	0.15	0.15	-1.06	-1.07	0	0	0	0	0	0
11/11/2024 14:43	67402	WAKE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/11/2024 14:45	40901	JESH_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/11/2024 14:45	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 14:46	40901	JESH_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/11/2024 14:46	64203	KINZ_T1	0	0	0	0	0	0	0.46	0.48	1	1	0	600	600	0
11/11/2024 14:46	64204	KINZ_T1	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/11/2024 14:46	64202	KINZ_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/11/2024 14:46	40902	JESH_T1	0	0	0	0	0	0	-2.96	-1.46	2	0	-2	1200	0	-1200
11/11/2024 14:48	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/11/2024 14:48	40901	JESH_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/11/2024 14:48	40902	JESH_T1	0	0	0	0	0	0	-1.48	-0.73	1	0	-1	600	0	-600
11/11/2024 14:48	54501	ENOL_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/11/2024 14:48	54505	ENOL_T2	1	1	0	1	1	0	-1.42	-1.42	1	1	0	600	600	0
11/11/2024 14:51	59301	MCAL_T1	3	3	0	0.57	0.37	-0.2	-1.67	-1.64	1	1	0	600	600	0
11/11/2024 14:51	65604	QVIL_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
11/11/2024 14:57	14802	TREI_T2	7	5	-2	0.18	0.2	0.02	0.32	0.29	0	0	0	0	0	0
11/11/2024 14:57	14801	TREI_T2	19	7	-12	0.21	0.33	0.12	0	0	0	0	0	0	0	0
11/11/2024 15:11	10101	ALLE_T3	2	2	0	4.5	3.65	-0.85	0	0	0	0	0	0	0	0
11/11/2024 15:11	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 15:12	20403	ASHF_T2	7	0	-7	0.16	0	-0.16	0.95	0.94	0	0	0	0	0	0
11/11/2024 15:12	20402	ASHF_T2	0	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0
11/11/2024 15:12	20401	ASHF_T2	4	3	-1	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
11/11/2024 15:14	63805	GREE_T1	6	8	2	0.13	0.45	0.32	-2.09	-2.07	1	1	0	900	900	0
11/11/2024 15:16	54503	ENOL_T2	0	0	0	0	0	0	-0.42	-0.33	1	1	0	600	600	0
11/11/2024 15:16	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/11/2024 15:16	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
11/11/2024 15:16	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/11/2024 15:18	63805	GREE_T1	8	8	0	0.45	0.34	-0.11	-2.09	-2.07	1	1	0	900	900	0
11/11/2024 15:19	41202	KENM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/11/2024 15:19	41205	KENM_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	600	600	0
11/11/2024 15:25	16101	BING_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
11/11/2024 15:27	67502	WEWI_T2	5	1	-4	0.26	0.1	-0.16	0	0	0	0	0	0	0	0
11/11/2024 15:27	67503	WEWI_T2	1	1	0	9.2	8.9	-0.3	-0.52	-0.59	0	0	0	0	0	0
11/11/2024 15:28	16101	BING_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
11/11/2024 15:31	44702	MUNC_T2	7	40	33	0.14	0.17	0.03	0	0	0	0	0	0	0	0
11/11/2024 15:31	44703	MUNC_T2	3	3	0	0.87	0.93	0.06	0	0	0	0	0	0	0	0
11/11/2024 15:31	44701	MUNC_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/11/2024 15:32	50502	MECH_T1	1	1	0	2.7	2.8	0.1	0	0	0	0	0	0	0	0
11/11/2024 15:32	50505	MECH_T1	0	0	0	0	0	0	-0.93	-0.95	0	0	0	0	0	0
11/11/2024 15:32	20802	LOPO_T1	1	1	0	0.1	0.1	0	-0.58	-0.57	1	1	0	600	600	0
11/11/2024 15:32	50501	MECH_T1	4	4	0	1.03	1.23	0.2	0	0	0	0	0	0	0	0
11/11/2024 15:32	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 15:32	21206	ECAR_T2	1	1	0	8.2	8.3	0.1	0.11	-0.18	0	0	0	0	0	0
11/11/2024 15:42	10101	ALLE_T3	2	2	0	4.35	5.5	1.15	0	0	0	0	0	0	0	0
11/11/2024 15:42	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 15:43	14201	EALL_T1	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
11/11/2024 15:47	14201	EALL_T1	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
11/11/2024 15:48	46602	LACR_T1	1	1	0	1.3	0	-1.3	-1.24	-1.24	0	0	0	0	0	0
11/11/2024 15:55	46001	BERW_T1	0	0	0	0	0	0	0.83	0.76	0	0	0	0	0	0
11/11/2024 15:56	46001	BERW_T1	0	0	0	0	0	0	0.83	0.76	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/11/2024 15:58	10903	COOP_T2	93	110	17	0.25	0.39	0.14	0	0	0	0	0	0	0	0
11/11/2024 15:59	17805	GILB_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
11/11/2024 15:59	17804	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 16:00	17805	GILB_T2	1	0	-1	8	0	-8	-0.18	-0.19	0	0	0	0	0	0
11/11/2024 16:02	64701	LITI_T1	0	0	0	0	0	0	0.35	0.13	0	0	0	0	0	0
11/11/2024 16:05	54206	PENN_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
11/11/2024 16:07	54206	PENN_T2	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
11/11/2024 16:15	67203	TEHI_T1	0	0	0	0	0	0	2.09	2.08	2	2	0	1500	1500	0
11/11/2024 16:28	49803	UNIV_T1	1	1	0	4.3	4.3	0	0	0	0	0	0	0	0	0
11/11/2024 16:28	49804	UNIV_T1	1	2	1	0.3	0.3	0	0.43	0.5	0	0	0	0	0	0
11/11/2024 16:40	21501	CEAV_T2	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
11/11/2024 16:48	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
11/11/2024 18:40	23403	HONE_T1	0	0	0	0	0	0	-0.78	-0.75	0	0	0	0	0	0
11/11/2024 18:41	46602	LACR_T1	0	0	0	0	0	0	-1.25	-1.28	0	0	0	0	0	0
11/11/2024 18:42	45701	LIND_T2	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
11/11/2024 18:42	45702	LIND_T2	1	1	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
11/11/2024 18:43	46602	LACR_T1	0	0	0	0	0	0	-1.25	-1.28	0	0	0	0	0	0
11/11/2024 18:44	47203	FAXO_T2	1	1	0	0.4	0.2	-0.2	-0.39	-0.39	0	0	0	0	0	0
11/11/2024 18:45	10602	BLGL_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
11/11/2024 18:46	17805	GILB_T2	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
11/11/2024 18:46	21206	ECAR_T2	1	1	0	7.6	7.6	0	0.19	0.15	0	0	0	0	0	0
11/11/2024 18:46	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:46	21204	ECAR_T2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:47	26002	WDAM_T1	2	6	4	0.15	0.46	0.31	0	0	0	0	0	0	0	0
11/11/2024 18:47	63602	LETO_T1	0	0	0	0	0	0	-0.54	-0.5	0	0	0	0	0	0
11/11/2024 18:47	63601	LETO_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/11/2024 18:47	26001	WDAM_T1	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
11/11/2024 18:47	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:48	10702	CATA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/11/2024 18:48	48902	FOSP_T2	3	4	1	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
11/11/2024 18:48	43301	WATS_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
11/11/2024 18:48	45702	LIND_T2	1	1	0	1.8	1.8	0	-0.64	-0.63	0	0	0	0	0	0
11/11/2024 18:48	48901	FOSP_T2	2	1	-1	0.1	0.1	0	0.21	0.24	0	0	0	0	0	0
11/11/2024 18:48	43302	WATS_T2	4	4	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
11/11/2024 18:48	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:48	20603	GRWO_T2	320	389	69	0.52	0.52	0	0.33	0.34	0	0	0	0	0	0
11/11/2024 18:48	20602	GRWO_T2	148	208	60	0.38	0.31	-0.07	0	0	0	0	0	0	0	0
11/11/2024 18:49	40303	TAMA_T3	3	3	0	0.27	0.43	0.16	2.39	2.51	0	0	0	0	0	0
11/11/2024 18:49	40301	TAMA_T3	3	5	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/11/2024 18:49	41205	KENM_T2	0	0	0	0	0	0	-0.77	-0.77	1	1	0	600	600	0
11/11/2024 18:49	40302	TAMA_T3	29	30	1	0.47	0.48	0.01	0	0	0	0	0	0	0	0
11/11/2024 18:50	20802	LOPO_T1	0	0	0	0	0	0	-0.54	-0.55	1	1	0	600	600	0
11/11/2024 18:50	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
11/11/2024 18:50	25402	LAHA_T2	0	0	0	0	0	0	-0.86	-0.9	0	0	0	0	0	0
11/11/2024 18:50	40901	JESH_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
11/11/2024 18:50	46506	LOHA_T1	3	3	0	3.4	4.1	0.7	0	0	0	0	0	0	0	0
11/11/2024 18:50	40902	JESH_T1	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
11/11/2024 18:50	13301	ORVI_T1	0	0	0	0	0	0	-0.54	-0.55	1	1	0	600	600	0
11/11/2024 18:50	16101	BING_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
11/11/2024 18:51	40901	JESH_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
11/11/2024 18:51	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:51	10702	CATA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/11/2024 18:51	67502	WEWI_T2	38	120	82	0.15	0.17	0.02	0	0	0	0	0	0	0	0
11/11/2024 18:51	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:51	43302	WATS_T2	4	4	0	0.5	0.55	0.05	-0.81	-0.78	2	2	0	1800	1800	0
11/11/2024 18:51	60701	BREC_T1	0	0	0	0	0	0	-0.57	-0.57	1	1	0	600	600	0
11/11/2024 18:51	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:51	67503	WEWI_T2	1	2	1	7.5	7.9	0.4	-0.65	-0.7	0	0	0	0	0	0
11/11/2024 18:51	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:51	14802	TREI_T2	5	5	0	0.23	0.23	0	0.33	0.32	0	0	0	0	0	0
11/11/2024 18:51	17802	GILB_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
11/11/2024 18:51	10101	ALLE_T3	2	2	0	3.55	3.5	-0.05	0	0	0	0	0	0	0	0
11/11/2024 18:51	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:51	13303	ORVI_T1	0	0	0	0	0	0	0.86	0.81	0	0	0	0	0	0
11/11/2024 18:51	14801	TREI_T2	2	5	3	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
11/11/2024 18:51	40802	EXCH_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
11/11/2024 18:51	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 18:52	43301	WATS_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
11/11/2024 18:52	65003	NEFF_T2	14	33	19	0.19	0.16	-0.03	0	0	0	0	0	0	0	0
11/11/2024 18:52	43302	WATS_T2	4	4	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
11/11/2024 18:52	16101	BING_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
11/11/2024 18:52	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/11/2024 18:52	67503	WEWI_T2	1	2	1	7.5	7.9	0.4	0	0	0	0	0	0	0	0
11/11/2024 18:52	65004	NEFF_T2	0	0	0	0	0	0	0.51	0.4	0	0	0	0	0	0
11/11/2024 18:52	20801	LOPO_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
11/11/2024 18:52	67502	WEWI_T2	38	120	82	0.15	0.17	0.02	-0.43	-0.48	0	0	0	0	0	0
11/11/2024 18:52	14201	EALL_T1	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
11/11/2024 18:53	50505	MECH_T1	13	118	105	0.13	0.14	0.01	-1.01	-0.97	0	0	0	0	0	0
11/11/2024 18:53	23902	ERMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:53	50503	MECH_T1	33	110	77	0.1	0.16	0.06	0	0	0	0	0	0	0	0
11/11/2024 18:53	50506	MECH_T1	57	506	449	0.11	0.15	0.04	0	0	0	0	0	0	0	0
11/11/2024 18:53	46001	BERW_T1	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
11/11/2024 18:53	40902	JESH_T1	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
11/11/2024 18:53	50502	MECH_T1	1	2	1	3.3	1.75	-1.55	0	0	0	0	0	0	0	0
11/11/2024 18:53	10702	CATA_T2	1	1	0	0.4	0.5	0.1	-0.96	-0.97	0	0	0	0	0	0
11/11/2024 18:53	40901	JESH_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
11/11/2024 18:53	20401	ASHF_T2	6	6	0	0.53	0.63	0.1	0	0	0	0	0	0	0	0
11/11/2024 18:53	50504	MECH_T1	125	271	146	0.15	0.19	0.04	0	0	0	0	0	0	0	0
11/11/2024 18:53	10701	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:53	20403	ASHF_T2	0	0	0	0	0	0	0.21	0.15	0	0	0	0	0	0
11/11/2024 18:53	65004	NEFF_T2	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
11/11/2024 18:53	46602	LACR_T1	0	0	0	0	0	0	-1.28	-1.27	0	0	0	0	0	0
11/11/2024 18:53	50501	MECH_T1	4	9	5	1.73	0.93	-0.8	0	0	0	0	0	0	0	0
11/11/2024 18:53	65003	NEFF_T2	14	33	19	0.19	0.16	-0.03	0	0	0	0	0	0	0	0
11/11/2024 18:54	63501	HEID_TBK1-2	2	16	14	0.55	0.16	-0.39	0.41	0.34	0	0	0	0	0	0
11/11/2024 18:54	65604	QVIL_T2	2	3	1	0.2	0.17	-0.03	0.29	0.28	0	0	0	0	0	0
11/11/2024 18:54	10702	CATA_T2	1	1	0	0.4	0.5	0.1	-0.96	-0.97	0	0	0	0	0	0
11/11/2024 18:54	14801	TREI_T2	2	5	3	0.3	0.27	-0.03	0.74	0.7	0	0	0	0	0	0
11/11/2024 18:54	65603	QVIL_T2	1	11	10	0.1	0.14	0.04	0	0	0	0	0	0	0	0
11/11/2024 18:54	14603	SWHI_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	600	600	0
11/11/2024 18:54	45702	LIND_T2	1	1	0	1.8	1.8	0	-0.63	-0.66	0	0	0	0	0	0
11/11/2024 18:54	14802	TREI_T2	5	5	0	0.23	0.23	0	0	0	0	0	0	0	0	0
11/11/2024 18:54	54601	SUMM_T2	8	9	1	0.44	0.53	0.09	-2.94	-2.97	2	2	0	2100	2100	0
11/11/2024 18:54	60101	COCA_T1	0	0	0	0	0	0	0.17	0.2	0	0	0	0	0	0
11/11/2024 18:54	10705	CATA_T2	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
11/11/2024 18:54	54602	SUMM_T2	5	12	7	0.16	0.28	0.12	0	0	0	0	0	0	0	0
11/11/2024 18:54	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 18:54	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:54	43302	WATS_T2	4	4	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
11/11/2024 18:54	10805	CHHI_T2	1	1	0	7.7	7.7	0	-0.98	-0.88	0	0	0	0	0	0
11/11/2024 18:54	65601	QVIL_T2	97	260	163	0.22	0.22	0	0	0	0	0	0	0	0	0
11/11/2024 18:54	43304	WATS_T2	0	0	0	0	0	0	-0.38	-0.45	0	0	0	0	0	0
11/11/2024 18:54	65602	QVIL_T2	1	5	4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
11/11/2024 18:55	45302	WBER_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
11/11/2024 18:55	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:55	66505	SMAN_T2	3	3	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/11/2024 18:55	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 18:55	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
11/11/2024 18:55	67401	WAKE_T2	12	43	31	0.2	0.19	-0.01	-1.17	-1.19	0	0	0	0	0	0
11/11/2024 18:55	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 18:55	14603	SWHI_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	600	600	0
11/11/2024 18:55	48901	FOSP_T2	2	1	-1	0.1	0.1	0	0.72	0.69	0	0	0	0	0	0
11/11/2024 18:55	54501	ENOL_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
11/11/2024 18:55	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:55	45303	WBER_T2	2	6	4	4.9	1.77	-3.13	0	0	0	0	0	0	0	0
11/11/2024 18:55	65207	PRIN_T4	3	16	13	2.4	0.23	-2.17	0	0	0	0	0	0	0	0
11/11/2024 18:55	45502	DERR_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
11/11/2024 18:55	48902	FOSP_T2	3	4	1	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
11/11/2024 18:55	45501	DERR_T2	0	0	0	0	0	0	0.41	0.45	2	2	0	1800	1800	0
11/11/2024 18:55	15001	BLMO_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 18:56	66505	SMAN_T2	3	3	0	0.8	1	0.2	-0.15	-0.17	2	2	0	1800	1800	0
11/11/2024 18:56	10702	CATA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/11/2024 18:56	64701	LITI_T1	0	0	0	0	0	0	0.15	0.07	0	0	0	0	0	0
11/11/2024 18:56	14704	TREX_T1	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
11/11/2024 18:56	10101	ALLE_T3	2	2	0	3.55	3.5	-0.05	0	0	0	0	0	0	0	0
11/11/2024 18:56	54501	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 18:56	14705	TREX_T1	0	1	1	0	0	0	-0.42	-0.4	0	0	0	0	0	0
11/11/2024 18:56	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
11/11/2024 18:56	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:56	11801	FRAN_T2	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
11/11/2024 18:56	54506	ENOL_T2	0	0	0	0	0	0	0.59	0.77	1	1	0	600	600	0
11/11/2024 18:56	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
11/11/2024 18:56	10705	CATA_T2	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
11/11/2024 18:56	45501	DERR_T2	0	0	0	0	0	0	0.41	0.45	2	2	0	1800	1800	0
11/11/2024 18:57	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.17	0	0	0	0	0	0
11/11/2024 18:57	21901	HUMB_T1	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
11/11/2024 18:57	60301	TWVA_T2	0	0	0	0	0	0	-4.36	-4.32	4	4	0	3600	3600	0
11/11/2024 18:57	67502	WEWI_T2	38	120	82	0.15	0.17	0.02	-0.43	-0.48	0	0	0	0	0	0
11/11/2024 18:57	43302	WATS_T2	4	4	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
11/11/2024 18:57	67106	SPRI_T2	0	0	0	0	0	0	-1.34	-1.33	1	1	0	900	900	0
11/11/2024 18:57	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:57	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:57	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:57	67503	WEWI_T2	1	2	1	7.5	7.9	0.4	0	0	0	0	0	0	0	0
11/11/2024 18:57	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:57	14801	TREI_T2	2	5	3	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
11/11/2024 18:57	63501	HEID_TBK1-2	2	16	14	0.55	0.16	-0.39	0.41	0.34	0	0	0	0	0	0
11/11/2024 18:57	14802	TREI_T2	5	5	0	0.23	0.23	0	0.33	0.32	0	0	0	0	0	0
11/11/2024 18:57	60502	NMAN_T2	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
11/11/2024 18:57	10801	CHHI_T1	0	0	0	0	0	0	-1.04	-1.04	1	1	0	900	900	0
11/11/2024 18:57	66504	SMAN_T2	0	0	0	0	0	0	-1.17	-1.14	0	0	0	0	0	0
11/11/2024 18:57	67401	WAKE_T2	12	43	31	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
11/11/2024 18:57	17804	GILB_T2	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/11/2024 18:57	17805	GILB_T2	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
11/11/2024 18:57	10705	CATA_T2	0	0	0	0	0	0	0	-0.18	0	0	0	0	0	0
11/11/2024 18:57	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/11/2024 18:57	10702	CATA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/11/2024 18:57	60501	NMAN_T2	47	70	23	0.27	0.28	0.01	0	0	0	0	0	0	0	0
11/11/2024 18:57	66505	SMAN_T2	3	3	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/11/2024 18:58	67503	WEWI_T2	1	2	1	7.5	7.9	0.4	0	0	0	0	0	0	0	0
11/11/2024 18:58	57203	ROSS_T1	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
11/11/2024 18:58	63501	HEID_TBK1-2	2	16	14	0.55	0.16	-0.39	0.41	0.34	0	0	0	0	0	0
11/11/2024 18:58	65602	QVIL_T2	1	5	4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
11/11/2024 18:58	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:58	60201	ATGL_T2	121	180	59	0.34	0.3	-0.04	-0.28	-0.18	0	0	0	0	0	0
11/11/2024 18:58	48901	FOSP_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/11/2024 18:58	14601	SWHI_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
11/11/2024 18:58	43302	WATS_T2	4	4	0	0.5	0.55	0.05	-0.78	-0.74	2	2	0	1800	1800	0
11/11/2024 18:58	17805	GILB_T2	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
11/11/2024 18:58	48902	FOSP_T2	3	4	1	0.17	0.13	-0.04	0.1	0.04	0	0	0	0	0	0
11/11/2024 18:58	40901	JESH_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
11/11/2024 18:58	67201	TEHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/11/2024 18:58	65604	QVIL_T2	2	3	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
11/11/2024 18:58	67203	TEHI_T1	0	0	0	0	0	0	2.16	2.13	2	2	0	1500	1500	0
11/11/2024 18:58	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:58	40902	JESH_T1	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
11/11/2024 18:58	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:58	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 18:58	65603	QVIL_T2	1	11	10	0.1	0.14	0.04	0	0	0	0	0	0	0	0
11/11/2024 18:58	63202	MGTN_T2	2	2	0	3.25	0	-3.25	0.86	0.88	0	0	0	0	0	0
11/11/2024 18:58	60101	COCA_T1	0	0	0	0	0	0	0.17	0.2	0	0	0	0	0	0
11/11/2024 18:58	67502	WEWI_T2	38	120	82	0.15	0.17	0.02	-0.43	-0.48	0	0	0	0	0	0
11/11/2024 18:58	63601	LETO_T1	2	2	0	0.2	0.2	0	2.61	2.72	0	0	0	0	0	0
11/11/2024 18:58	64305	LINC_T1	0	0	0	0	0	0	-0.64	-0.6	0	0	0	0	0	0
11/11/2024 18:58	53501	EVIL_T2	1	1	0	0.2	0.1	-0.1	-0.82	-0.85	1	1	0	600	600	0
11/11/2024 18:58	65601	QVIL_T2	97	260	163	0.22	0.22	0	-1.3	-1.29	1	1	0	900	900	0
11/11/2024 18:58	57201	ROSS_T1	1	5	4	0.1	0.1	0	0	0	0	0	0	0	0	0
11/11/2024 18:58	45801	HEGI_T1	0	0	0	0	0	0	-0.33	-0.33	1	1	0	900	900	0
11/11/2024 18:59	67401	WAKE_T2	12	43	31	0.2	0.19	-0.01	-1.17	-1.19	0	0	0	0	0	0
11/11/2024 18:59	13101	NHAM_T1	0	0	0	0	0	0	-3.06	-2.63	2	2	0	2400	2400	0
11/11/2024 18:59	60701	BREC_T1	0	0	0	0	0	0	-0.57	-0.57	1	1	0	600	600	0
11/11/2024 18:59	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:59	58402	MORO_T1	12	13	1	1.28	1.23	-0.05	0	0	2	2	0	1500	1500	0
11/11/2024 18:59	44501	HAMI_T2	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
11/11/2024 18:59	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/11/2024 18:59	20602	GRWO_T2	148	208	60	0.38	0.31	-0.07	0	0	0	0	0	0	0	0
11/11/2024 18:59	14601	SWHI_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
11/11/2024 18:59	55002	NEWP_T1	6	6	0	1.45	1.42	-0.03	-0.29	-0.3	0	0	0	0	0	0
11/11/2024 18:59	65202	PRIN_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
11/11/2024 18:59	58006	WCAR_T2	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
11/11/2024 18:59	20603	GRWO_T2	320	389	69	0.52	0.52	0	0.34	0.34	0	0	0	0	0	0
11/11/2024 18:59	54602	SUMM_T2	5	12	7	0.16	0.28	0.12	0	0	0	0	0	0	0	0
11/11/2024 18:59	64802	MONE_T2	35	73	38	0.18	0.54	0.36	-0.01	-0.01	0	0	0	0	0	0
11/11/2024 18:59	65205	PRIN_T1	26	31	5	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
11/11/2024 18:59	53501	EVIL_T2	1	1	0	0.2	0.1	-0.1	-0.82	-0.85	1	1	0	600	600	0
11/11/2024 18:59	64902	MILL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 18:59	54601	SUMM_T2	8	9	1	0.44	0.53	0.09	-2.94	-2.97	2	2	0	2100	2100	0
11/11/2024 18:59	44502	HAMI_T2	1	1	0	3.4	3.5	0.1	0	0	0	0	0	0	0	0
11/11/2024 18:59	55001	NEWP_T1	0	8	8	0	0.11	0.11	-0.4	-0.44	0	0	0	0	0	0
11/11/2024 18:59	14603	SWHI_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	600	600	0
11/11/2024 18:59	44904	SCOT_T1	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
11/11/2024 18:59	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 18:59	44505	HAMI_T2	0	0	0	0	0	0	0.83	0.83	0	0	0	0	0	0
11/11/2024 18:59	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 19:00	43802	SWIL_T1	0	0	0	0	0	0	-0.24	-0.24	1	1	0	600	600	0
11/11/2024 19:00	13302	ORVI_T2	0	0	0	0	0	0	1.02	0.99	0	0	0	0	0	0
11/11/2024 19:00	10705	CATA_T2	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
11/11/2024 19:00	48901	FOSP_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
11/11/2024 19:00	66502	SMAN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
11/11/2024 19:00	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 19:00	66504	SMAN_T2	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
11/11/2024 19:00	60801	BUCK_T1	52	53	1	0.5	0.52	0.02	-0.25	-0.2	0	0	0	0	0	0
11/11/2024 19:00	10702	CATA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/11/2024 19:00	58001	WCAR_T1	4	4	0	0.43	0.68	0.25	0	0	0	0	0	0	0	0
11/11/2024 19:00	48902	FOSP_T2	3	5	2	0.13	0.14	0.01	0.2	0.08	0	0	0	0	0	0
11/11/2024 19:00	43801	SWIL_T1	2	3	1	3.4	2.3	-1.1	0	0	0	0	0	0	0	0
11/11/2024 19:00	60803	BUCK_T1	21	23	2	0.4	0.48	0.08	0	0	0	0	0	0	0	0
11/11/2024 19:00	10101	ALLE_T3	2	3	1	3.5	5.55	2.05	0	0	0	0	0	0	0	0
11/11/2024 19:00	66505	SMAN_T2	3	3	0	0.93	1.13	0.2	0	0	0	0	0	0	0	0
11/11/2024 19:00	66501	SMAN_T2	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
11/11/2024 19:00	50505	MECH_T1	32	120	88	0.12	0.14	0.02	0	0	0	0	0	0	0	0
11/11/2024 19:00	63305	GREE_T1	3	5	2	0.13	0.23	0.1	-1.41	-1.41	0	0	0	0	0	0
11/11/2024 19:00	54602	SUMM_T2	12	10	-2	0.28	0.21	-0.07	0	0	0	0	0	0	0	0
11/11/2024 19:00	23901	EFMO_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
11/11/2024 19:00	58003	WCAR_T1	1	1	0	0.9	1.1	0.2	-0.17	-0.19	1	1	0	600	600	0
11/11/2024 19:00	50501	MECH_T1	4	10	6	1.65	0.85	-0.8	0	0	0	0	0	0	0	0
11/11/2024 19:00	57203	ROSS_T1	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
11/11/2024 19:00	54601	SUMM_T2	8	9	1	0.5	0.52	0.02	0	0	0	0	0	0	0	0
11/11/2024 19:00	50502	MECH_T1	1	2	1	3.4	1.75	-1.65	0	0	0	0	0	0	0	0
11/11/2024 19:00	50503	MECH_T1	34	118	84	0.12	0.15	0.03	0	0	0	0	0	0	0	0
11/11/2024 19:00	50506	MECH_T1	154	521	367	0.12	0.15	0.03	-0.11	-0.16	0	0	0	0	0	0
11/11/2024 19:00	57201	ROSS_T1	3	5	2	0.1	0.1	0	0	0	0	0	0	0	0	0
11/11/2024 19:00	10801	CHHI_T1	0	0	0	0	0	0	-1.04	-1.04	1	1	0	900	900	0
11/11/2024 19:00	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/11/2024 19:00	63601	LETO_T1	2	1	-1	0.2	0.1	-0.1	1.31	1.36	0	0	0	0	0	0
11/11/2024 19:00	50504	MECH_T1	144	268	124	0.15	0.2	0.05	0	0	0	0	0	0	0	0
11/11/2024 19:00	54603	SUMM_T2	0	0	0	0	0	0	-0.42	-0.43	1	1	0	900	900	0
11/11/2024 19:01	54601	SUMM_T2	8	9	1	0.5	0.52	0.02	-2.94	-2.97	2	2	0	2100	2100	0
11/11/2024 19:01	14201	FALL_T1	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
11/11/2024 19:01	54602	SUMM_T2	12	10	-2	0.28	0.21	-0.07	0	0	0	0	0	0	0	0
11/11/2024 19:01	10702	CATA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/11/2024 19:01	48901	FOSP_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
11/11/2024 19:01	67503	WEWI_T2	1	4	3	7.5	2.05	-5.45	-0.65	-0.7	0	0	0	0	0	0
11/11/2024 19:01	44505	HAMI_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
11/11/2024 19:01	66501	SMAN_T2	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
11/11/2024 19:01	54505	ENOL_T2	1	1	0	0.9	1	0.1	-1.39	-1.4	1	1	0	600	600	0
11/11/2024 19:01	48902	FOSP_T2	3	5	2	0.13	0.14	0.01	0	0	0	0	0	0	0	0
11/11/2024 19:01	66505	SMAN_T2	3	3	0	0.93	1.13	0.2	0	0	0	0	0	0	0	0
11/11/2024 19:01	57702	PAXT_T1	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
11/11/2024 19:01	60201	ATGL_T2	164	126	-38	0.3	0.34	0.04	-0.28	-0.18	0	0	0	0	0	0
11/11/2024 19:01	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 19:01	44301	BEAV_T2	1	1	0	1	0	-1	-0.16	-0.26	1	1	0	600	600	0
11/11/2024 19:01	66502	SMAN_T2	0	4	4	0	0.1	0.1	-0.05	-0.05	0	0	0	0	0	0
11/11/2024 19:01	44502	HAMI_T2	1	1	0	3.5	2.8	-0.7	0	0	0	0	0	0	0	0
11/11/2024 19:01	67502	WEWI_T2	24	156	132	0.14	0.18	0.04	0	0	0	0	0	0	0	0
11/11/2024 19:01	44501	HAMI_T2	8	0	-8	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/11/2024 19:01	10705	CATA_T2	0	0	0	0	0	0	0	-0.12	0	0	0	0	0	0
11/11/2024 19:01	44801	EDAN_T2	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
11/11/2024 19:02	67401	WAKE_T2	17	53	36	0.16	0.18	0.02	0	0	0	0	0	0	0	0
11/11/2024 19:02	44902	SCOT_T2	0	0	0	0	0	0	-0.98	-0.93	0	0	0	0	0	0
11/11/2024 19:02	50505	MECH_T1	32	120	88	0.12	0.14	0.02	-1.01	-0.97	0	0	0	0	0	0
11/11/2024 19:02	50506	MECH_T1	154	521	367	0.12	0.15	0.03	-0.11	-0.16	0	0	0	0	0	0
11/11/2024 19:02	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/11/2024 19:02	57403	SPAN_T1	21	19	-2	0.25	0.22	-0.03	-0.05	-0.01	0	0	0	0	0	0
11/11/2024 19:02	43304	WATS_T2	0	0	0	0	0	0	-0.38	-0.45	0	0	0	0	0	0
11/11/2024 19:02	50504	MECH_T1	144	268	124	0.15	0.2	0.05	0	0	0	0	0	0	0	0
11/11/2024 19:02	50501	MECH_T1	4	10	6	1.65	0.85	-0.8	0	0	0	0	0	0	0	0
11/11/2024 19:02	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
11/11/2024 19:02	55002	NEWP_T1	6	6	0	1.35	1.13	-0.22	-0.29	-0.3	0	0	0	0	0	0
11/11/2024 19:02	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
11/11/2024 19:02	65503	MOJO_T2	65	225	160	0.14	0.2	0.06	-0.37	-0.41	0	0	0	0	0	0
11/11/2024 19:02	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
11/11/2024 19:02	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.17	0	0	0	0	0	0
11/11/2024 19:02	65502	MOJO_T2	269	307	38	0.22	0.37	0.15	0	0	0	0	0	0	0	0
11/11/2024 19:02	57401	SPAN_T1	2	3	1	0.95	1.3	0.35	0	0	0	0	0	0	0	0
11/11/2024 19:02	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 19:02	53501	EVIL_T2	0	1	1	0	0.1	0.1	-0.82	-0.85	1	1	0	600	600	0
11/11/2024 19:02	13303	ORVI_T1	0	0	0	0	0	0	0.86	0.81	0	0	0	0	0	0
11/11/2024 19:02	52402	GRPA_T2	3	3	0	0.5	0.57	0.07	-0.87	-0.88	0	0	0	0	0	0
11/11/2024 19:02	54503	ENOL_T2	0	0	0	0	0	0	-0.43	-0.45	1	1	0	600	600	0
11/11/2024 19:02	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 19:02	55001	NEWP_T1	6	2	-4	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/11/2024 19:02	46506	LOHA_T1	3	3	0	4.03	4.4	0.37	0	0	0	0	0	0	0	0
11/11/2024 19:02	43302	WATS_T2	4	4	0	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
11/11/2024 19:02	50503	MECH_T1	34	118	84	0.12	0.15	0.03	0	0	0	0	0	0	0	0
11/11/2024 19:02	44301	BEAV_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
11/11/2024 19:02	50502	MECH_T1	1	2	1	3.4	1.75	-1.65	0	0	0	0	0	0	0	0
11/11/2024 19:02	64101	REFR_T1	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
11/11/2024 19:02	44302	BEAV_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
11/11/2024 19:03	14801	TREI_T2	3	22	19	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
11/11/2024 19:03	44505	HAMI_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
11/11/2024 19:03	57205	ROSS_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
11/11/2024 19:03	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 19:03	48902	FOSP_T2	3	5	2	0.13	0.14	0.01	0	0	0	0	0	0	0	0
11/11/2024 19:03	60701	BREC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 19:03	44501	HAMI_T2	8	0	-8	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/11/2024 19:03	65003	NEFF_T2	33	4	-29	0.16	0.5	0.34	-2	-1.49	2	1	-1	1800	1200	-600
11/11/2024 19:03	44502	HAMI_T2	1	1	0	3.5	2.8	-0.7	0	0	0	0	0	0	0	0
11/11/2024 19:03	20603	GRWO_T2	384	280	-104	0.51	0.54	0.03	0	0	0	0	0	0	0	0
11/11/2024 19:03	50506	MECH_T1	154	521	367	0.12	0.15	0.03	-0.33	-0.47	0	0	0	0	0	0
11/11/2024 19:03	50502	MECH_T1	1	2	1	3.4	1.75	-1.65	0	0	0	0	0	0	0	0
11/11/2024 19:03	14802	TREI_T2	5	8	3	0.2	0.2	0	0.33	0.32	0	0	0	0	0	0
11/11/2024 19:03	48901	FOSP_T2	0	4	4	0	0.15	0.15	0.24	0.23	0	0	0	0	0	0
11/11/2024 19:03	66502	SMAN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
11/11/2024 19:03	14601	SWHI_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
11/11/2024 19:03	20601	GRWO_T2	0	0	0	0	0	0	1.11	1.1	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/11/2024 19:03	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 19:03	44801	EDAN_T2	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
11/11/2024 19:03	20602	GRWO_T2	180	174	-6	0.32	0.32	0	0	0	0	0	0	0	0	0
11/11/2024 19:03	57201	ROSS_T1	3	5	2	0.1	0.1	0	0	0	0	0	0	0	0	0
11/11/2024 19:03	66505	SMAN_T2	3	3	0	0.93	1.13	0.2	-0.08	-0.08	1	1	0	900	900	0
11/11/2024 19:03	67401	WAKE_T2	17	53	36	0.16	0.18	0.02	-1.17	-1.19	0	0	0	0	0	0
11/11/2024 19:03	50503	MECH_T1	34	118	84	0.12	0.15	0.03	0	0	0	0	0	0	0	0
11/11/2024 19:03	50501	MECH_T1	4	10	6	1.65	0.85	-0.8	0	0	0	0	0	0	0	0
11/11/2024 19:03	50505	MECH_T1	32	120	88	0.12	0.14	0.02	0	0	0	0	0	0	0	0
11/11/2024 19:03	50504	MECH_T1	144	268	124	0.15	0.2	0.05	0	0	0	0	0	0	0	0
11/11/2024 19:03	63501	HEID_TBK1-2	16	34	18	0.16	0.26	0.1	0.41	0.34	0	0	0	0	0	0
11/11/2024 19:03	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 19:03	66501	SMAN_T2	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
11/11/2024 19:04	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 19:04	58402	MORO_T1	13	11	-2	1.28	0	-1.28	0	0	0	0	0	0	0	0
11/11/2024 19:04	44502	HAMI_T2	1	1	0	3.5	2.8	-0.7	0	0	0	0	0	0	0	0
11/11/2024 19:04	14801	TREI_T2	3	22	19	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
11/11/2024 19:04	63305	GREE_T1	3	5	2	0.13	0.23	0.1	-1.41	-1.41	0	0	0	0	0	0
11/11/2024 19:04	48902	FOSP_T2	3	5	2	0.13	0.14	0.01	0	0	0	0	0	0	0	0
11/11/2024 19:04	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 19:04	50506	MECH_T1	154	521	367	0.12	0.15	0.03	-0.11	-0.16	0	0	0	0	0	0
11/11/2024 19:04	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
11/11/2024 19:04	50505	MECH_T1	32	120	88	0.12	0.14	0.02	0	0	0	0	0	0	0	0
11/11/2024 19:04	50501	MECH_T1	4	10	6	1.65	0.85	-0.8	0	0	0	0	0	0	0	0
11/11/2024 19:04	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 19:04	14802	TREI_T2	5	8	3	0.2	0.2	0	0.33	0.32	0	0	0	0	0	0
11/11/2024 19:04	54504	ENOL_T2	0	0	0	0	0	0	-1.15	-1.14	1	1	0	600	600	0
11/11/2024 19:04	58401	MORO_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/11/2024 19:04	10702	CATA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/11/2024 19:04	10705	CATA_T2	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
11/11/2024 19:04	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 19:04	50503	MECH_T1	34	118	84	0.12	0.15	0.03	0	0	0	0	0	0	0	0
11/11/2024 19:04	48901	FOSP_T2	0	4	4	0	0.15	0.15	0.48	0.46	0	0	0	0	0	0
11/11/2024 19:04	50504	MECH_T1	144	268	124	0.15	0.2	0.05	0	0	0	0	0	0	0	0
11/11/2024 19:04	50502	MECH_T1	1	2	1	3.4	1.75	-1.65	0	0	0	0	0	0	0	0
11/11/2024 19:04	53501	EVIL_T2	0	1	1	0	0.1	0.1	-0.82	-0.85	1	1	0	600	600	0
11/11/2024 19:04	40801	EXCH_T2	0	0	0	0	0	0	0.8	0.77	0	0	0	0	0	0
11/11/2024 19:04	44501	HAMI_T2	8	0	-8	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/11/2024 19:04	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/11/2024 19:05	66502	SMAN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
11/11/2024 19:05	57106	SPHI_T2	3	3	0	1.67	1.6	-0.07	0	0	0	0	0	0	0	0
11/11/2024 19:05	55001	NEWP_T1	6	2	-4	0.1	0.15	0.05	-0.4	-0.44	0	0	0	0	0	0
11/11/2024 19:05	15001	BLMO_T1	1	4	3	0.1	0.6	0.5	0	0	0	0	0	0	0	0
11/11/2024 19:05	40802	EXCH_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
11/11/2024 19:05	40303	TAMA_T3	3	3	0	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
11/11/2024 19:05	60803	BUCK_T1	21	23	2	0.4	0.48	0.08	0	0	0	0	0	0	0	0
11/11/2024 19:05	54505	ENOL_T2	1	1	0	0.9	1	0.1	-1.39	-1.4	1	1	0	600	600	0
11/11/2024 19:05	58202	NEWV_T1	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
11/11/2024 19:05	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 19:05	10705	CATA_T2	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
11/11/2024 19:05	60801	BUCK_T1	52	53	1	0.5	0.52	0.02	-0.25	-0.2	0	0	0	0	0	0
11/11/2024 19:05	10702	CATA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/11/2024 19:05	44502	HAMI_T2	1	1	0	3.5	2.8	-0.7	0	0	0	0	0	0	0	0
11/11/2024 19:05	63501	HEID_TBK1-2	16	34	18	0.16	0.26	0.1	0.41	0.34	0	0	0	0	0	0
11/11/2024 19:05	57101	SPHI_T2	6	6	0	0.95	1.33	0.38	0	0	0	0	0	0	0	0
11/11/2024 19:05	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
11/11/2024 19:05	40801	EXCH_T2	0	0	0	0	0	0	0.8	0.77	0	0	0	0	0	0
11/11/2024 19:05	66505	SMAN_T2	3	3	0	0.93	1.13	0.2	0	0	0	0	0	0	0	0
11/11/2024 19:05	44301	BEAV_T2	1	1	0	1	0	-1	-0.16	-0.26	1	1	0	600	600	0
11/11/2024 19:05	44302	BEAV_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
11/11/2024 19:05	66503	SMAN_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
11/11/2024 19:05	44501	HAMI_T2	8	0	-8	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/11/2024 19:05	67106	SPRI_T2	0	0	0	0	0	0	-1.34	-1.33	1	1	0	900	900	0
11/11/2024 19:05	57104	SPHI_T2	2	1	-1	1.6	1	-0.6	-0.66	-0.65	0	0	0	0	0	0
11/11/2024 19:05	40301	TAMA_T3	3	5	2	0.15	0.13	-0.02	2.22	2.36	1	1	0	1200	1200	0
11/11/2024 19:05	46001	BERW_T1	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
11/11/2024 19:05	40302	TAMA_T3	29	30	1	0.47	0.41	-0.06	0	0	0	0	0	0	0	0
11/11/2024 19:05	63601	LETO_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/11/2024 19:05	55002	NEWP_T1	6	6	0	1.35	1.13	-0.22	0	0	0	0	0	0	0	0
11/11/2024 19:05	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 19:05	66501	SMAN_T2	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
11/11/2024 19:05	63602	LETO_T1	0	1	1	0	0.1	0.1	-0.5	-0.52	0	0	0	0	0	0
11/11/2024 19:06	66502	SMAN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
11/11/2024 19:06	54601	SUMM_T2	8	9	1	0.5	0.52	0.02	0	0	0	0	0	0	0	0
11/11/2024 19:06	55002	NEWP_T1	6	6	0	1.35	1.13	-0.22	-0.3	-0.3	0	0	0	0	0	0
11/11/2024 19:06	54602	SUMM_T2	12	10	-2	0.28	0.21	-0.07	0	0	0	0	0	0	0	0
11/11/2024 19:06	54603	SUMM_T2	0	0	0	0	0	0	-0.43	-0.45	1	1	0	900	900	0
11/11/2024 19:06	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 19:06	57201	ROSS_T1	3	5	2	0.1	0.1	0	0	0	0	0	0	0	0	0
11/11/2024 19:06	67401	WAKE_T2	17	53	36	0.16	0.18	0.02	-1.19	-1.2	0	0	0	0	0	0
11/11/2024 19:06	57205	ROSS_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
11/11/2024 19:06	66505	SMAN_T2	3	3	0	0.93	1.13	0.2	0	0	0	0	0	0	0	0
11/11/2024 19:06	66501	SMAN_T2	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
11/11/2024 19:06	64101	REFR_T1	0	0	0	0	0	0	-0.42	-0.36	0	0	0	0	0	0
11/11/2024 19:06	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
11/11/2024 19:06	55001	NEWP_T1	6	2	-4	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/11/2024 19:06	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 19:06	42701	AUGU_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
11/11/2024 19:07	64203	KINZ_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
11/11/2024 19:07	64201	KINZ_T1	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
11/11/2024 19:07	67401	WAKE_T2	17	53	36	0.16	0.18	0.02	0	0	0	0	0	0	0	0
11/11/2024 19:07	54602	SUMM_T2	12	10	-2	0.28	0.21	-0.07	0	0	0	0	0	0	0	0
11/11/2024 19:07	54601	SUMM_T2	8	9	1	0.5	0.52	0.02	-2.97	-2.96	2	2	0	2100	2100	0
11/11/2024 19:07	57401	SPAN_T1	2	3	1	0.95	1.3	0.35	0	0	0	0	0	0	0	0
11/11/2024 19:07	55002	NEWP_T1	6	6	0	1.35	1.13	-0.22	0	0	0	0	0	0	0	0
11/11/2024 19:07	64204	KINZ_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
11/11/2024 19:07	57403	SPAN_T1	21	19	-2	0.25	0.22	-0.03	-0.01	-0.05	0	0	0	0	0	0
11/11/2024 19:07	10701	CATA_T2	0	0	0	0	0	0	-0.76	-0.79	0	0	0	0	0	0
11/11/2024 19:07	10702	CATA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/11/2024 19:07	44901	SCOT_T2	0	0	0	0	0	0	-0.23	-0.27	0	0	0	0	0	0
11/11/2024 19:07	63501	HEID_TBK1-2	16	34	18	0.16	0.26	0.1	0.34	0.35	0	0	0	0	0	0
11/11/2024 19:07	58803	COCO_T1	1	1	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
11/11/2024 19:07	55001	NEWP_T1	6	2	-4	0.1	0.15	0.05	-0.44	-0.44	0	0	0	0	0	0
11/11/2024 19:07	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
11/11/2024 19:07	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 19:08	58402	MORO_T1	13	11	-2	1.28	0	-1.28	0	0	2	3	1	1500	2400	900
11/11/2024 19:08	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 19:08	59302	MCAL_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
11/11/2024 19:08	58401	MORO_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
11/11/2024 19:08	59301	MCAL_T1	2	40	38	1.3	0.24	-1.06	-1.94	-1.94	1	1	0	600	600	0
11/11/2024 19:08	44301	BEAV_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
11/11/2024 19:08	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
11/11/2024 19:08	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 19:08	55001	NEWP_T1	6	2	-4	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/11/2024 19:08	55002	NEWP_T1	6	6	0	1.35	1.13	-0.22	-0.3	-0.3	0	0	0	0	0	0
11/11/2024 19:08	53501	EVIL_T2	0	1	1	0	0.1	0.1	-0.85	-0.85	1	1	0	600	600	0
11/11/2024 19:08	67201	TEHI_T1	1	0	-1	0.1	0	-0.1	-0.02	-0.09	1	1	0	900	900	0
11/11/2024 19:08	48901	FOSP_T2	0	4	4	0	0.15	0.15	0.23	0.24	0	0	0	0	0	0
11/11/2024 19:08	48902	FOSP_T2	3	5	2	0.13	0.14	0.01	0	0	0	0	0	0	0	0
11/11/2024 19:08	60501	NMAN_T2	70	128	58	0.28	0.29	0.01	0	0	0	0	0	0	0	0
11/11/2024 19:09	54204	PENN_T2	3	3	0	0.13	0.3	0.17	0	0	0	0	0	0	0	0
11/11/2024 19:09	65601	QVIL_T2	214	231	17	0.21	0.22	0.01	0	0	0	0	0	0	0	0
11/11/2024 19:09	58803	COCO_T1	1	1	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
11/11/2024 19:09	54202	PENN_T2	4	53	49	0.13	0.13	0	0	0	0	0	0	0	0	0
11/11/2024 19:09	52402	GRPA_T2	3	3	0	0.5	0.57	0.07	-0.88	-0.88	0	0	0	0	0	0
11/11/2024 19:09	55002	NEWP_T1	6	6	0	1.35	1.13	-0.22	0	0	0	0	0	0	0	0
11/11/2024 19:09	65602	QVIL_T2	2	4	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/11/2024 19:09	65603	QVIL_T2	5	11	6	0.12	0.14	0.02	0.13	0.14	0	0	0	0	0	0
11/11/2024 19:09	65604	QVIL_T2	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
11/11/2024 19:09	10702	CATA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/11/2024 19:09	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
11/11/2024 19:09	57203	ROSS_T1	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
11/11/2024 19:09	64802	MONE_T2	60	114	54	0.29	0.54	0.25	-0.01	-0.01	0	0	0	0	0	0
11/11/2024 19:09	54206	PENN_T2	13	48	35	0.11	0.14	0.03	-0.03	-0.04	0	0	0	0	0	0
11/11/2024 19:09	55001	NEWP_T1	6	2	-4	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/11/2024 19:09	57201	ROSS_T1	3	5	2	0.1	0.1	0	0	0	0	0	0	0	0	0
11/11/2024 19:09	10705	CATA_T2	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
11/11/2024 19:10	50503	MECH_T1	34	118	84	0.12	0.15	0.03	0	0	0	0	0	0	0	0
11/11/2024 19:10	65603	QVIL_T2	5	11	6	0.12	0.14	0.02	0	0	0	0	0	0	0	0
11/11/2024 19:10	49803	UNIV_T1	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0	0
11/11/2024 19:10	65604	QVIL_T2	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
11/11/2024 19:10	49804	UNIV_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
11/11/2024 19:10	50501	MECH_T1	4	10	6	1.65	0.85	-0.8	-0.03	-0.12	0	0	0	0	0	0
11/11/2024 19:10	50506	MECH_T1	154	521	367	0.12	0.15	0.03	0	0	0	0	0	0	0	0
11/11/2024 19:10	50505	MECH_T1	32	120	88	0.12	0.14	0.02	0	0	0	0	0	0	0	0
11/11/2024 19:10	50502	MECH_T1	1	2	1	3.4	1.75	-1.65	0	0	0	0	0	0	0	0
11/11/2024 19:10	52403	GRPA_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
11/11/2024 19:10	52402	GRPA_T2	3	3	0	0.5	0.57	0.07	0	0	0	0	0	0	0	0
11/11/2024 19:10	50504	MECH_T1	144	268	124	0.15	0.2	0.05	0	0	0	0	0	0	0	0
11/11/2024 19:10	65602	QVIL_T2	2	4	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/11/2024 19:10	65601	QVIL_T2	214	231	17	0.21	0.22	0.01	0	0	0	0	0	0	0	0
11/11/2024 19:11	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 19:11	44301	BEAV_T2	1	1	0	1	0	-1	-0.26	-0.15	1	1	0	600	600	0
11/11/2024 19:11	65603	QVIL_T2	5	11	6	0.12	0.14	0.02	0.13	0.14	0	0	0	0	0	0
11/11/2024 19:11	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/11/2024 19:11	53501	EVIL_T2	0	1	1	0	0.1	0.1	-0.85	-0.85	1	1	0	600	600	0
11/11/2024 19:11	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/11/2024 19:11	65601	QVIL_T2	214	231	17	0.21	0.22	0.01	0	0	0	0	0	0	0	0
11/11/2024 19:11	65604	QVIL_T2	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
11/11/2024 19:11	55105	WERT_T1	0	0	0	0	0	0	-0.77	-0.76	1	1	0	900	900	0
11/11/2024 19:11	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
11/11/2024 19:11	65602	QVIL_T2	2	4	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/11/2024 19:12	55002	NEWP_T1	6	6	0	1.35	1.13	-0.22	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/11/2024 19:12	64101	REFR_T1	0	0	0	0	0	0	-0.42	-0.36	0	0	0	0	0	0
11/11/2024 19:12	55001	NEWP_T1	6	2	-4	0.1	0.15	0.05	-0.44	-0.44	0	0	0	0	0	0
11/11/2024 19:13	44302	BEAV_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
11/11/2024 19:13	66505	SMAN_T2	3	3	0	0.93	1.13	0.2	0	0	0	0	0	0	0	0
11/11/2024 19:13	66501	SMAN_T2	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
11/11/2024 19:13	66504	SMAN_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
11/11/2024 19:13	66502	SMAN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
11/11/2024 19:13	44301	BEAV_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
11/11/2024 19:16	54202	PENN_T2	53	0	-53	0.13	0	-0.13	0	0	0	0	0	0	0	0
11/11/2024 19:16	54204	PENN_T2	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/11/2024 19:16	54206	PENN_T2	48	0	-48	0.14	0	-0.14	-0.03	-0.04	0	0	0	0	0	0
11/11/2024 19:16	21501	CEAV_T2	0	0	0	0	0	0	0.75	0.72	0	0	0	0	0	0
11/11/2024 19:29	48902	FOSP_T2	4	5	1	0.13	0.16	0.03	0	0	0	0	0	0	0	0
11/11/2024 19:29	48901	FOSP_T2	1	4	3	0.1	0.15	0.05	0.24	0.26	0	0	0	0	0	0
11/11/2024 19:32	10705	CATA_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
11/11/2024 19:32	46802	HEPB_T1	1	1	0	0.2	0.7	0.5	-0.27	-0.28	0	0	0	0	0	0
11/11/2024 19:32	10702	CATA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/11/2024 19:42	28102	TWLA_T2	1	6	5	0.3	0.23	-0.07	0.19	0.17	0	0	0	0	0	0
11/11/2024 19:47	44701	MUNC_T2	51	225	174	0.17	0.3	0.13	0	0	0	0	0	0	0	0
11/11/2024 19:47	44702	MUNC_T2	132	198	66	0.27	0.4	0.13	0	0	0	0	0	0	0	0
11/11/2024 19:47	44703	MUNC_T2	3	3	0	0.97	1.1	0.13	0	0	0	0	0	0	0	0
11/11/2024 19:52	10702	CATA_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
11/11/2024 19:52	10705	CATA_T2	0	0	0	0	0	0	-0.06	-0.03	0	0	0	0	0	0
11/11/2024 20:49	65206	PRIN_T4	1	1	0	1.8	0	-1.8	0	0	0	0	0	0	0	0
11/11/2024 20:49	65207	PRIN_T4	3	6	3	0.93	0.34	-0.59	0	0	1	1	0	1200	1200	0
11/11/2024 21:23	26002	WDAM_T1	5	4	-1	0.52	0.68	0.16	0	0	0	0	0	0	0	0
11/11/2024 21:56	54505	ENOL_T2	1	1	0	1	1	0	-1.43	-1.42	1	1	0	600	600	0
11/11/2024 21:56	54501	ENOL_T2	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/11/2024 21:56	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/12/2024 7:44	10805	CHHI_T2	1	1	0	8.3	8	-0.3	-0.59	-0.57	0	0	0	0	0	0
11/12/2024 7:45	45702	LIND_T2	1	1	0	0.4	0.6	0.2	-0.52	-0.52	0	0	0	0	0	0
11/12/2024 7:48	45702	LIND_T2	1	1	0	0.4	0.6	0.2	-0.52	-0.52	0	0	0	0	0	0
11/12/2024 7:49	15203	SFAR_T2	0	0	0	0	0	0	-1.41	-1.42	0	0	0	0	0	0
11/12/2024 7:51	55002	NEWP_T1	3	6	3	0.73	0.6	-0.13	-0.26	-0.24	0	0	0	0	0	0
11/12/2024 7:51	55001	NEWP_T1	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
11/12/2024 7:52	67502	WEWI_T2	1	2	1	0.2	0.2	0	-0.31	-0.25	0	0	0	0	0	0
11/12/2024 7:52	67503	WEWI_T2	1	1	0	8.5	8.7	0.2	0	0	0	0	0	0	0	0
11/12/2024 7:53	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/12/2024 7:53	14802	TREI_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
11/12/2024 8:01	64903	MILL_T2	0	0	0	0	0	0	0.24	0.2	0	0	0	0	0	0
11/12/2024 8:02	64903	MILL_T2	0	0	0	0	0	0	0.24	0.2	0	0	0	0	0	0
11/12/2024 8:08	67502	WEWI_T2	1	17	16	0.2	0.16	-0.04	-0.25	-0.3	0	0	0	0	0	0
11/12/2024 8:08	15203	SFAR_T2	0	0	0	0	0	0	-1.46	-1.45	0	0	0	0	0	0
11/12/2024 8:08	67503	WEWI_T2	1	1	0	8.7	8.6	-0.1	0	0	0	0	0	0	0	0
11/12/2024 8:10	67502	WEWI_T2	1	17	16	0.2	0.16	-0.04	-0.25	-0.3	0	0	0	0	0	0
11/12/2024 8:10	67503	WEWI_T2	1	1	0	8.7	8.6	-0.1	0	0	0	0	0	0	0	0
11/12/2024 8:11	67505	WEWI_T1	0	0	0	0	0	0	-0.05	-0.06	1	1	0	900	900	0
11/12/2024 8:11	67502	WEWI_T2	1	17	16	0.2	0.16	-0.04	-0.5	-0.61	0	0	0	0	0	0
11/12/2024 8:11	67503	WEWI_T2	1	1	0	8.7	8.6	-0.1	0	0	0	0	0	0	0	0
11/12/2024 8:11	67501	WEWI_T1	0	0	0	0	0	0	-0.58	-0.65	0	0	0	0	0	0
11/12/2024 8:12	54501	ENOL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/12/2024 8:12	51102	CARL_T1	1	44	43	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
11/12/2024 8:12	54502	ENOL_T2	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
11/12/2024 8:12	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 8:12	53502	EVIL_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
11/12/2024 8:12	51108	CARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/12/2024 8:12	53501	EVIL_T2	2	2	0	0.95	0.85	-0.1	-0.44	-0.28	2	2	0	1200	1200	0
11/12/2024 8:12	51101	CARL_T1	1	1	0	5.3	5	-0.3	0	0	0	0	0	0	0	0
11/12/2024 8:12	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	-1.36	-1.36	1	1	0	600	600	0
11/12/2024 8:13	45502	DERR_T2	0	1	1	0	0	0	-0.05	0.06	0	0	0	0	0	0
11/12/2024 8:13	23901	EFMO_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
11/12/2024 8:14	54502	ENOL_T2	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
11/12/2024 8:14	54504	ENOL_T2	0	0	0	0	0	0	-1.13	-1.13	1	1	0	600	600	0
11/12/2024 8:14	54501	ENOL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/12/2024 8:14	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	-1.36	-1.36	1	1	0	600	600	0
11/12/2024 8:17	45702	LIND_T2	1	1	0	0.5	0.8	0.3	-0.56	-0.56	0	0	0	0	0	0
11/12/2024 8:21	67002	STHI_T2	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
11/12/2024 8:21	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/12/2024 8:23	65603	QVIL_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
11/12/2024 8:23	65602	QVIL_T2	0	38	38	0	0.28	0.28	0	0	0	0	0	0	0	0
11/12/2024 8:23	24801	VALM_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
11/12/2024 8:27	41301	FISH_T1	1	3	2	2.7	1.07	-1.63	0	0	0	0	0	0	0	0
11/12/2024 8:27	41305	FISH_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
11/12/2024 8:32	52403	GRPA_T2	1	5	4	0.2	0.6	0.4	0	0	0	0	0	0	0	0
11/12/2024 8:32	52402	GRPA_T2	9	9	0	0.27	0.24	-0.03	-0.78	-0.79	0	0	0	0	0	0
11/12/2024 8:32	52401	GRPA_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/12/2024 8:36	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 8:36	49804	UNIV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/12/2024 8:36	49803	UNIV_T1	1	1	0	4.8	4.6	-0.2	-1.24	-1.2	0	0	0	0	0	0
11/12/2024 8:38	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 8:43	13401	TELF_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/12/2024 8:48	45702	LIND_T2	1	1	0	0.3	0.5	0.2	-0.56	-0.55	0	0	0	0	0	0
11/12/2024 8:51	58401	MORO_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/12/2024 8:54	44301	BEAV_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/12/2024 8:58	53501	EVIL_T2	1	2	1	0.9	0.85	-0.05	-0.12	-0.19	2	2	0	1200	1200	0
11/12/2024 9:00	10702	CATA_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/12/2024 9:00	49803	UNIV_T1	1	1	0	4.6	4.4	-0.2	-1.17	-1.17	0	0	0	0	0	0
11/12/2024 9:00	67503	WEWI_T2	1	1	0	7.9	8.6	0.7	-0.65	-0.49	0	0	0	0	0	0
11/12/2024 9:00	52402	GRPA_T2	4	4	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/12/2024 9:00	10705	CATA_T2	0	0	0	0	0	0	-1.06	-1	1	1	0	900	900	0
11/12/2024 9:00	67502	WEWI_T2	1	7	6	0.5	0.46	-0.04	0	0	0	0	0	0	0	0
11/12/2024 9:00	52401	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/12/2024 9:00	28102	TWLA_T2	0	9	9	0	0.3	0.3	0.16	0.16	0	0	0	0	0	0
11/12/2024 9:00	46801	HEPB_T2	2	2	0	1	0.95	-0.05	0	0	0	0	0	0	0	0
11/12/2024 9:00	63501	HEID_TBK1-2	236	2	-234	1.34	0.9	-0.44	-0.47	0.9	1	0	-1	900	0	-900
11/12/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
11/12/2024 9:00	49804	UNIV_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/12/2024 9:00	53501	EVIL_T2	2	2	0	0.4	1.15	0.75	-0.12	-0.19	2	2	0	1200	1200	0
11/12/2024 9:00	52403	GRPA_T2	5	1	-4	0.6	1.6	1	-0.11	-0.11	0	0	0	0	0	0
11/12/2024 9:00	46803	HEPB_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
11/12/2024 9:05	47403	PENS_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
11/12/2024 9:05	47401	PENS_T1	3	2	-1	0.63	0.6	-0.03	0.16	0.21	0	0	0	0	0	0
11/12/2024 9:05	47402	PENS_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/12/2024 9:07	58401	MORO_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/12/2024 9:10	63501	HEID_TBK1-2	236	2	-234	1.34	0.9	-0.44	0.9	0.8	0	0	0	0	0	0
11/12/2024 9:11	23901	EFMO_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
11/12/2024 9:11	58803	COCO_T1	11	1	-10	0.33	2.6	2.27	0	0	0	0	0	0	0	0
11/12/2024 9:11	40802	EXCH_T2	0	0	0	0	0	0	0	0.27	0	0	0	0	0	0
11/12/2024 9:12	44801	EDAN_T2	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
11/12/2024 9:12	40802	EXCH_T2	0	0	0	0	0	0	0	0.27	0	0	0	0	0	0
11/12/2024 9:13	11801	FRAN_T2	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
11/12/2024 9:13	44801	EDAN_T2	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
11/12/2024 9:14	44502	HAMI_T2	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
11/12/2024 9:14	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 9:14	58803	COCO_T1	11	1	-10	0.33	2.6	2.27	0	0	0	0	0	0	0	0
11/12/2024 9:16	64302	LINC_T2	0	0	0	0	0	0	1.06	1.17	0	0	0	0	0	0
11/12/2024 9:16	44502	HAMI_T2	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
11/12/2024 9:16	44505	HAMI_T2	0	0	0	0	0	0	0.85	0.82	0	0	0	0	0	0
11/12/2024 9:16	10101	ALLE_T3	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
11/12/2024 9:17	49804	UNIV_T1	1	2	1	0.1	0.4	0.3	0.68	0.68	0	0	0	0	0	0
11/12/2024 9:17	49803	UNIV_T1	1	1	0	4.7	4.4	-0.3	0	0	0	0	0	0	0	0
11/12/2024 9:19	65603	QVIL_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 9:19	65602	QVIL_T2	29	23	-6	0.19	0.17	-0.02	0	0	0	0	0	0	0	0
11/12/2024 9:19	65601	QVIL_T2	0	1	1	0	0.4	0.4	-1.21	-1.24	1	1	0	900	900	0
11/12/2024 9:21	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 9:21	40301	TAMA_T3	1	5	4	0	0.13	0.13	2.37	2.36	1	1	0	1200	1200	0
11/12/2024 9:21	40303	TAMA_T3	2	3	1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
11/12/2024 9:21	40302	TAMA_T3	26	33	7	0.35	0.46	0.11	0	0	0	0	0	0	0	0
11/12/2024 9:23	13303	ORVI_T1	0	0	0	0	0	0	0.91	0.92	0	0	0	0	0	0
11/12/2024 9:24	67401	WAKE_T2	0	1	1	0	0.2	0.2	-0.87	-0.85	0	0	0	0	0	0
11/12/2024 9:25	67401	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/12/2024 9:25	67402	WAKE_T2	0	0	0	0	0	0	0.35	0.34	1	1	0	600	600	0
11/12/2024 9:26	45502	DERR_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/12/2024 9:26	14801	TREI_T2	0	4	4	0	0.35	0.35	0.32	0.33	0	0	0	0	0	0
11/12/2024 9:26	14802	TREI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/12/2024 9:26	45501	DERR_T2	0	0	0	0	0	0	0.77	0.88	2	2	0	1800	1800	0
11/12/2024 9:27	45502	DERR_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/12/2024 9:27	45501	DERR_T2	0	0	0	0	0	0	0.77	0.88	2	2	0	1800	1800	0
11/12/2024 9:27	59101	WALK_T2	1	1	0	2	0	-2	2.29	1.67	0	0	0	0	0	0
11/12/2024 9:27	59102	WALK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/12/2024 9:29	59101	WALK_T2	1	1	0	2	0	-2	2.29	1.67	0	0	0	0	0	0
11/12/2024 9:29	59102	WALK_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/12/2024 9:30	59101	WALK_T2	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
11/12/2024 9:30	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/12/2024 9:30	45702	LIND_T2	1	1	0	0.5	0.6	0.1	-0.54	-0.54	0	0	0	0	0	0
11/12/2024 9:31	50501	MECH_T1	4	4	0	0.85	0.43	-0.42	-0.41	0.13	0	0	0	0	0	0
11/12/2024 9:31	59101	WALK_T2	1	0	-1	2	0	-2	2.29	1.67	0	0	0	0	0	0
11/12/2024 9:31	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/12/2024 9:31	50502	MECH_T1	1	1	0	2.2	1.8	-0.4	0	0	0	0	0	0	0	0
11/12/2024 9:32	47203	FAXO_T2	0	0	0	0	0	0	-1.76	-1.74	1	1	0	1200	1200	0
11/12/2024 9:33	45702	LIND_T2	1	1	0	0.5	0.6	0.1	-0.54	-0.54	0	0	0	0	0	0
11/12/2024 9:35	65603	QVIL_T2	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
11/12/2024 9:35	45701	LIND_T2	0	0	0	0	0	0	-1.69	-1.66	0	0	0	0	0	0
11/12/2024 9:35	65602	QVIL_T2	22	12	-10	0.17	0.17	0	0	0	0	0	0	0	0	0
11/12/2024 9:35	65601	QVIL_T2	1	3	2	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
11/12/2024 9:35	50501	MECH_T1	4	4	0	0.85	0.43	-0.42	0	0	0	0	0	0	0	0
11/12/2024 9:35	50505	MECH_T1	0	0	0	0	0	0	-0.86	-0.92	0	0	0	0	0	0
11/12/2024 9:35	15203	SFAR_T2	1	2	1	0.3	0.4	0.1	-1.42	-1.4	0	0	0	0	0	0
11/12/2024 9:35	50502	MECH_T1	1	1	0	2.2	1.8	-0.4	0	0	0	0	0	0	0	0
11/12/2024 9:35	45702	LIND_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/12/2024 9:36	45702	LIND_T2	1	1	0	0.5	0.6	0.1	-0.54	-0.54	0	0	0	0	0	0
11/12/2024 9:37	45303	WBER_T2	1	1	0	9.8	9.9	0.1	0	0	0	0	0	0	0	0
11/12/2024 9:37	65602	QVIL_T2	22	12	-10	0.17	0.17	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/12/2024 9:37	65601	QVIL_T2	1	3	2	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
11/12/2024 9:37	45302	WBER_T2	0	0	0	0	0	0	0.65	0.59	0	0	0	0	0	0
11/12/2024 9:37	65603	QVIL_T2	0	0	0	0	0	0	0.68	0.55	0	0	0	0	0	0
11/12/2024 9:38	15203	SFAR_T2	1	2	1	0.3	0.4	0.1	-1.4	-1.41	0	0	0	0	0	0
11/12/2024 9:40	67201	TEHI_T1	0	0	0	0	0	0	1.53	1.31	1	1	0	900	900	0
11/12/2024 9:40	58803	COCO_T1	1	11	10	2.6	0.31	-2.29	0	0	0	0	0	0	0	0
11/12/2024 9:44	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 9:44	45501	DERR_T2	0	1	1	0	0	0	0.88	0.8	2	2	0	1800	1800	0
11/12/2024 9:44	10101	ALLE_T3	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
11/12/2024 9:45	10801	CHHI_T1	0	2	2	0	0.35	0.35	-0.81	-0.83	1	1	0	900	900	0
11/12/2024 9:49	10101	ALLE_T3	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
11/12/2024 9:49	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 9:51	57205	ROSS_T1	2	2	0	0.1	0.25	0.15	0.17	0.18	0	0	0	0	0	0
11/12/2024 9:54	57401	SPAN_T1	2	2	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
11/12/2024 9:54	57403	SPAN_T1	42	57	15	0.26	0.29	0.03	-0.02	-0.01	0	0	0	0	0	0
11/12/2024 9:57	43304	WATS_T2	0	0	0	0	0	0	-0.42	-0.26	0	0	0	0	0	0
11/12/2024 9:59	15203	SFAR_T2	1	2	1	0.2	0.4	0.2	-1.41	-1.34	0	0	0	0	0	0
11/12/2024 10:00	52403	GRPA_T2	2	20	18	1	0.39	-0.61	0	0	0	0	0	0	0	0
11/12/2024 10:00	52402	GRPA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/12/2024 10:00	52401	GRPA_T2	1	2	1	0.1	0.3	0.2	-0.56	-0.55	0	0	0	0	0	0
11/12/2024 10:02	54601	SUMM_T2	7	8	1	0.43	0.46	0.03	-3.02	-3.06	2	2	0	2100	2100	0
11/12/2024 10:08	65601	QVIL_T2	3	6	3	0.27	0.37	0.1	0	0	0	0	0	0	0	0
11/12/2024 10:08	65602	QVIL_T2	0	39	39	0	0.39	0.39	0	0	0	0	0	0	0	0
11/12/2024 10:09	60801	BUCK_T1	0	1	1	0	0.3	0.3	0.1	0.05	0	0	0	0	0	0
11/12/2024 10:09	60803	BUCK_T1	2	14	12	0.1	0.28	0.18	0	0	0	0	0	0	0	0
11/12/2024 10:09	14802	TREI_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
11/12/2024 10:09	14801	TREI_T2	4	2	-2	0.33	0.45	0.12	0.34	0.34	0	0	0	0	0	0
11/12/2024 10:10	60201	ATGL_T2	0	1	1	0	0.3	0.3	0.05	0	0	0	0	0	0	0
11/12/2024 10:10	43304	WATS_T2	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
11/12/2024 10:10	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/12/2024 10:12	61701	ELIZ_T1	1	1	0	5.2	5.7	0.5	0	0	0	0	0	0	0	0
11/12/2024 10:12	26601	BROO_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
11/12/2024 10:12	10702	CATA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/12/2024 10:12	26603	BROO_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
11/12/2024 10:12	61703	ELIZ_T1	0	4	4	0	0.23	0.23	-1.97	-1.98	1	1	0	900	900	0
11/12/2024 10:12	10705	CATA_T2	1	1	0	0.7	1.7	1	-2.02	-2.04	2	2	0	1800	1800	0
11/12/2024 10:13	63501	HEID_TBK1-2	4	6	2	0.45	0.47	0.02	0.08	0.04	1	1	0	900	900	0
11/12/2024 10:14	63501	HEID_TBK1-2	4	6	2	0.45	0.47	0.02	0.08	0.04	1	1	0	900	900	0
11/12/2024 10:14	23201	HIRU_T2	0	1	1	0	0.1	0.1	0.15	0.16	0	0	0	0	0	0
11/12/2024 10:15	17802	GILB_T1	1	4	3	0.1	0.7	0.6	0.08	0.07	0	0	0	0	0	0
11/12/2024 10:15	54502	ENOL_T2	2	1	-1	0.6	1	0.4	0	0	0	0	0	0	0	0
11/12/2024 10:15	61701	ELIZ_T1	1	1	0	5.7	5.3	-0.4	0.36	0.25	0	0	0	0	0	0
11/12/2024 10:15	22901	HARW_T1	0	3	3	0	0	0	-0.17	-0.07	1	1	0	1200	1200	0
11/12/2024 10:15	54505	ENOL_T2	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0	0
11/12/2024 10:15	63501	HEID_TBK1-2	6	5	-1	0.45	0.8	0.35	0.08	0.04	1	1	0	900	900	0
11/12/2024 10:15	61703	ELIZ_T1	4	1	-3	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
11/12/2024 10:15	22903	HARW_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
11/12/2024 10:15	54506	ENOL_T2	0	0	0	0	0	0	0.35	0.37	1	1	0	600	600	0
11/12/2024 10:16	63501	HEID_TBK1-2	6	5	-1	0.45	0.8	0.35	0.08	0.04	1	1	0	900	900	0
11/12/2024 10:17	17805	GILB_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
11/12/2024 10:17	52402	GRPA_T2	0	4	4	0	0.13	0.13	-0.8	-0.81	0	0	0	0	0	0
11/12/2024 10:17	52403	GRPA_T2	20	6	-14	0.39	0.78	0.39	0	0	0	0	0	0	0	0
11/12/2024 10:17	52401	GRPA_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/12/2024 10:17	17803	GILB_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/12/2024 10:17	17804	GILB_T2	1	1	0	0.2	0.4	0.2	-0.61	-0.58	0	0	0	0	0	0
11/12/2024 10:19	60502	NMAN_T2	2	4	2	0.1	0.15	0.05	-0.28	-0.35	0	0	0	0	0	0
11/12/2024 10:19	60501	NMAN_T2	5	4	-1	0.12	0.35	0.23	0	0	0	0	0	0	0	0
11/12/2024 10:19	60504	NMAN_T2	2	2	0	0.25	0.65	0.4	0	0	0	0	0	0	0	0
11/12/2024 10:21	10705	CATA_T2	1	1	0	1.5	1.7	0.2	-1.02	-0.98	1	1	0	900	900	0
11/12/2024 10:21	10702	CATA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/12/2024 10:21	65503	MOJO_T2	0	0	0	0	0	0	-0.18	-0.06	0	0	0	0	0	0
11/12/2024 10:24	57201	ROSS_T1	0	0	0	0	0	0	-0.34	-0.45	0	0	0	0	0	0
11/12/2024 10:24	57205	ROSS_T1	2	3	1	0.25	0.67	0.42	0.47	0.06	0	0	0	0	0	0
11/12/2024 10:25	57201	ROSS_T1	0	0	0	0	0	0	-0.34	-0.45	0	0	0	0	0	0
11/12/2024 10:25	57205	ROSS_T1	2	3	1	0.25	0.67	0.42	0	0	0	0	0	0	0	0
11/12/2024 10:33	58401	MORO_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/12/2024 10:33	10705	CATA_T2	1	1	0	1.7	1.2	-0.5	-1.02	-0.98	1	1	0	900	900	0
11/12/2024 10:33	10702	CATA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/12/2024 10:38	23001	SAJO_T1	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
11/12/2024 10:40	14802	TREI_T2	0	2	2	0	0.25	0.25	0.36	0.34	0	0	0	0	0	0
11/12/2024 10:40	42701	AUGU_T1	0	1	1	0	1.3	1.3	0	0	2	2	0	1800	1800	0
11/12/2024 10:40	14801	TREI_T2	2	3	1	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
11/12/2024 10:40	60101	COCA_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
11/12/2024 10:41	10702	CATA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/12/2024 10:41	58401	MORO_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/12/2024 10:41	10705	CATA_T2	1	1	0	1.7	1.2	-0.5	-0.98	-0.96	1	1	0	900	900	0
11/12/2024 10:43	21204	ECAR_T2	1	1	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
11/12/2024 10:43	53501	EVIL_T2	3	4	1	0.7	0.73	0.03	-1.03	-0.58	6	6	0	3600	3600	0
11/12/2024 10:43	21206	ECAR_T2	2	2	0	3.6	6.9	3.3	0	0	0	0	0	0	0	0
11/12/2024 10:44	60101	COCA_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
11/12/2024 10:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 10:44	41802	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 10:44	53501	EVIL_T2	3	4	1	0.7	0.73	0.03	-0.34	-0.19	2	2	0	1200	1200	0
11/12/2024 10:45	53501	EVIL_T2	4	2	-2	0.7	0.95	0.25	-0.69	-0.39	4	4	0	2400	2400	0
11/12/2024 10:45	60101	COCA_T1	0	1	1	0	0.1	0.1	0.23	0.21	0	0	0	0	0	0
11/12/2024 10:47	22905	HARW_T1	0	0	0	0	0	0	-0.56	-0.53	0	0	0	0	0	0
11/12/2024 10:47	53501	EVIL_T2	4	2	-2	0.7	0.95	0.25	-0.34	-0.19	2	2	0	1200	1200	0
11/12/2024 10:47	22901	HARW_T1	3	3	0	0.97	0.67	-0.3	0	0	0	0	0	0	0	0
11/12/2024 10:47	22903	HARW_T1	3	14	11	0.37	0.1	-0.27	0	0	0	0	0	0	0	0
11/12/2024 10:49	60101	COCA_T1	0	1	1	0	0.1	0.1	0.23	0.21	0	0	0	0	0	0
11/12/2024 10:52	57201	ROSS_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/12/2024 10:52	57205	ROSS_T1	3	3	0	0.67	0.9	0.23	0	0	0	0	0	0	0	0
11/12/2024 10:52	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
11/12/2024 10:52	15203	SFAR_T2	2	2	0	0.3	0.4	0.1	-1.39	-1.4	0	0	0	0	0	0
11/12/2024 10:52	57203	ROSS_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
11/12/2024 10:53	65803	RTWN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/12/2024 10:53	57403	SPAN_T1	22	23	1	0.28	0.25	-0.03	-0.05	-0.05	0	0	0	0	0	0
11/12/2024 10:53	57401	SPAN_T1	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
11/12/2024 10:53	65802	RTWN_T2	1	2	1	0.1	0.2	0.1	-0.23	-0.25	0	0	0	0	0	0
11/12/2024 10:54	60201	ATGL_T2	1	1	0	0.2	0.6	0.4	0.03	-0.03	0	0	0	0	0	0
11/12/2024 10:54	57203	ROSS_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
11/12/2024 10:54	57205	ROSS_T1	3	3	0	0.67	0.9	0.23	0	0	0	0	0	0	0	0
11/12/2024 10:54	57201	ROSS_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/12/2024 10:55	10801	CHHI_T1	0	4	4	0	0.48	0.48	-0.8	-0.77	1	1	0	900	900	0
11/12/2024 10:55	10805	CHHI_T2	1	1	0	7	6.7	-0.3	-1.42	-1.43	1	1	0	1200	1200	0
11/12/2024 10:59	10805	CHHI_T2	1	1	0	7	6.7	-0.3	-1.42	-1.43	1	1	0	1200	1200	0
11/12/2024 11:01	20603	GRIWO_T2	39	83	44	0.28	0.3	0.02	0.33	0.35	0	0	0	0	0	0
11/12/2024 11:04	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 11:04	43201	MVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/12/2024 11:04	46801	HEPB_T2	2	2	0	0.95	1	0.05	0.55	0.53	0	0	0	0	0	0
11/12/2024 11:04	54202	PENN_T2	2	2	0	0.75	0.3	-0.45	0	0	0	0	0	0	0	0
11/12/2024 11:04	46803	HEPB_T2	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
11/12/2024 11:04	43202	MVIL_T2	18	10	-8	0.2	0.21	0.01	-0.64	-0.66	0	0	0	0	0	0
11/12/2024 11:05	67805	WLAN_T1	0	0	0	0	0	0	-1	-0.91	0	0	0	0	0	0
11/12/2024 11:05	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 11:05	67803	WLAN_T1	267	218	-49	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
11/12/2024 11:05	67804	WLAN_T1	20	14	-6	0.35	0.46	0.11	0	0	0	0	0	0	0	0
11/12/2024 11:05	54202	PENN_T2	2	2	0	0.75	0.3	-0.45	0	0	0	0	0	0	0	0
11/12/2024 11:06	66504	SMAN_T2	4	5	1	0.5	0.44	-0.06	-0.5	-0.51	0	0	0	0	0	0
11/12/2024 11:06	66502	SMAN_T2	6	6	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
11/12/2024 11:06	67001	STHI_T2	6	6	0	0.27	0.3	0.03	0	0	0	0	0	0	0	0
11/12/2024 11:06	66505	SMAN_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
11/12/2024 11:06	66501	SMAN_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
11/12/2024 11:06	67002	STHI_T2	16	20	4	0.24	0.24	0	0.6	0.58	0	0	0	0	0	0
11/12/2024 11:07	66504	SMAN_T2	4	5	1	0.5	0.44	-0.06	-1	-1.02	0	0	0	0	0	0
11/12/2024 11:07	10702	CATA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/12/2024 11:07	66501	SMAN_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
11/12/2024 11:07	66505	SMAN_T2	0	3	3	0	0.37	0.37	-0.02	0.12	1	1	0	900	900	0
11/12/2024 11:07	10707	CATA_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
11/12/2024 11:07	67001	STHI_T2	6	6	0	0.27	0.3	0.03	0.12	0.1	0	0	0	0	0	0
11/12/2024 11:07	10705	CATA_T2	1	1	0	0.3	1.4	1.1	-0.91	-0.96	1	1	0	900	900	0
11/12/2024 11:07	67002	STHI_T2	16	20	4	0.24	0.24	0	0.6	0.58	0	0	0	0	0	0
11/12/2024 11:07	66502	SMAN_T2	6	6	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
11/12/2024 11:08	66504	SMAN_T2	4	5	1	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
11/12/2024 11:08	67002	STHI_T2	16	20	4	0.24	0.24	0	0	0	0	0	0	0	0	0
11/12/2024 11:08	66501	SMAN_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
11/12/2024 11:08	66502	SMAN_T2	6	6	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
11/12/2024 11:08	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 11:08	67001	STHI_T2	6	6	0	0.27	0.3	0.03	0.06	0.05	0	0	0	0	0	0
11/12/2024 11:08	66505	SMAN_T2	0	3	3	0	0.37	0.37	-0.02	0.12	1	1	0	900	900	0
11/12/2024 11:09	67001	STHI_T2	6	6	0	0.27	0.3	0.03	0	0	0	0	0	0	0	0
11/12/2024 11:09	66502	SMAN_T2	6	6	0	0.2	0.25	0.05	0.31	0.3	0	0	0	0	0	0
11/12/2024 11:09	66505	SMAN_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
11/12/2024 11:09	54601	SUMM_T2	9	12	3	0.43	0.35	-0.08	0	0	0	0	0	0	0	0
11/12/2024 11:09	66501	SMAN_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
11/12/2024 11:09	66504	SMAN_T2	4	5	1	0.5	0.44	-0.06	-1	-1.02	0	0	0	0	0	0
11/12/2024 11:09	54602	SUMM_T2	8	10	2	0.13	0.14	0.01	0	0	0	0	0	0	0	0
11/12/2024 11:09	54603	SUMM_T2	0	0	0	0	0	0	-1.08	-1.06	2	2	0	1800	1800	0
11/12/2024 11:09	67002	STHI_T2	16	20	4	0.24	0.24	0	1.8	1.74	0	0	0	0	0	0
11/12/2024 11:10	67001	STHI_T2	6	6	0	0.27	0.3	0.03	0	0	0	0	0	0	0	0
11/12/2024 11:10	66501	SMAN_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
11/12/2024 11:10	66502	SMAN_T2	6	6	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
11/12/2024 11:10	66504	SMAN_T2	4	5	1	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
11/12/2024 11:10	66505	SMAN_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
11/12/2024 11:10	67002	STHI_T2	16	20	4	0.24	0.24	0	3	2.9	0	0	0	0	0	0
11/12/2024 11:11	60901	DONG_T2	4	4	0	0.4	0.53	0.13	0	0	0	0	0	0	0	0
11/12/2024 11:11	57203	ROSS_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
11/12/2024 11:11	60903	DONG_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/12/2024 11:11	57201	ROSS_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
11/12/2024 11:11	60904	DONG_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
11/12/2024 11:11	67002	STHI_T2	16	20	4	0.24	0.24	0	1.2	1.16	0	0	0	0	0	0
11/12/2024 11:11	67001	STHI_T2	6	6	0	0.27	0.3	0.03	0.06	0.05	0	0	0	0	0	0
11/12/2024 11:11	57205	ROSS_T1	3	2	-1	0.87	1.2	0.33	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/12/2024 11:11	60902	DONG_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/12/2024 11:11	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 11:12	43301	WATS_T2	0	2	2	0	0.2	0.2	-0.83	-0.84	1	1	0	900	900	0
11/12/2024 11:14	66504	SMAN_T2	4	5	1	0.5	0.44	-0.06	-0.5	-0.51	0	0	0	0	0	0
11/12/2024 11:14	66502	SMAN_T2	6	6	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
11/12/2024 11:14	66501	SMAN_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
11/12/2024 11:14	66505	SMAN_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
11/12/2024 11:14	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 11:16	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/12/2024 11:16	64204	KINZ_T1	20	50	30	0.35	0.44	0.09	0	0	0	0	0	0	0	0
11/12/2024 11:16	64203	KINZ_T1	0	0	0	0	0	0	0.81	0.87	2	2	0	900	900	0
11/12/2024 11:17	41801	GOCI_T2	2	3	1	0.1	0.23	0.13	0	0	0	0	0	0	0	0
11/12/2024 11:17	46801	HEPB_T2	2	2	0	0.95	1.15	0.2	0	0	0	0	0	0	0	0
11/12/2024 11:17	46803	HEPB_T2	1	2	1	0.1	0.3	0.2	0.45	0.42	0	0	0	0	0	0
11/12/2024 11:18	64203	KINZ_T1	0	0	0	0	0	0	0.81	0.87	2	2	0	900	900	0
11/12/2024 11:18	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/12/2024 11:18	64204	KINZ_T1	20	50	30	0.35	0.44	0.09	0	0	0	0	0	0	0	0
11/12/2024 11:19	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
11/12/2024 11:20	60502	NMAN_T2	0	6	6	0	0.45	0.45	0	0	0	0	0	0	0	0
11/12/2024 11:20	58401	MORO_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
11/12/2024 11:20	58402	MORO_T1	0	3	3	0	0.4	0.4	0	0	3	3	0	2400	2400	0
11/12/2024 11:20	60501	NMAN_T2	2	34	32	0.25	0.21	-0.04	0	0	0	0	0	0	0	0
11/12/2024 11:20	60504	NMAN_T2	2	3	1	0.7	0.67	-0.03	0	0	0	0	0	0	0	0
11/12/2024 11:21	58401	MORO_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
11/12/2024 11:21	58402	MORO_T1	0	3	3	0	0.4	0.4	0	0	3	3	0	2400	2400	0
11/12/2024 11:22	64305	LINC_T1	0	1	1	0	0.5	0.5	-0.15	-0.29	0	0	0	0	0	0
11/12/2024 11:23	15201	SFAR_T1	0	0	0	0	0	0	-0.66	-0.65	2	2	0	1800	1800	0
11/12/2024 11:24	40303	TAMA_T3	2	2	0	0.3	0.4	0.1	2.62	2.68	0	0	0	0	0	0
11/12/2024 11:24	40301	TAMA_T3	2	5	3	0.2	0.23	0.03	0	0	0	0	0	0	0	0
11/12/2024 11:24	40302	TAMA_T3	7	9	2	0.5	0.52	0.02	0	0	0	0	0	0	0	0
11/12/2024 11:26	42701	AUGU_T1	2	4	2	0.1	0.68	0.58	0	0	0	0	0	0	0	0
11/12/2024 11:26	64305	LINC_T1	0	1	1	0	0.5	0.5	-0.15	-0.29	0	0	0	0	0	0
11/12/2024 11:27	15001	BLMO_T1	3	8	5	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
11/12/2024 11:27	42701	AUGU_T1	2	4	2	0.1	0.68	0.58	0	0	2	2	0	1800	1800	0
11/12/2024 11:28	15001	BLMO_T1	3	8	5	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
11/12/2024 11:29	10805	CHHI_T2	1	3	2	6.7	2.3	-4.4	-1.43	-1.41	1	1	0	1200	1200	0
11/12/2024 11:29	60901	DONG_T2	4	4	0	0.45	0.63	0.18	0	0	0	0	0	0	0	0
11/12/2024 11:29	60803	BUCK_T1	11	16	5	0.21	0.46	0.25	0	0	0	0	0	0	0	0
11/12/2024 11:29	60902	DONG_T2	1	4	3	0.3	0.28	-0.02	0.23	0.28	0	0	0	0	0	0
11/12/2024 11:29	60903	DONG_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/12/2024 11:29	60801	BUCK_T1	2	20	18	0.35	0.2	-0.15	-0.03	-0.03	0	0	0	0	0	0
11/12/2024 11:29	60904	DONG_T2	1	3	2	0.7	0.37	-0.33	0	0	0	0	0	0	0	0
11/12/2024 11:31	23202	HIRU_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
11/12/2024 11:31	23201	HIRU_T2	2	3	1	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/12/2024 11:31	53501	EVIL_T2	2	5	3	1.05	0.7	-0.35	-0.45	-0.25	2	2	0	1200	1200	0
11/12/2024 11:33	46801	HEPB_T2	2	3	1	1	0.97	-0.03	0.49	0.52	0	0	0	0	0	0
11/12/2024 11:33	46803	HEPB_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
11/12/2024 11:41	44301	BEAV_T2	7	5	-2	0.19	0.42	0.23	-0.07	0.17	2	2	0	1500	1500	0
11/12/2024 11:41	44302	BEAV_T2	1	4	3	0.1	0.65	0.55	0	0	0	0	0	0	0	0
11/12/2024 11:42	44505	HAMI_T2	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0	0
11/12/2024 11:42	44802	EDAN_T2	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
11/12/2024 11:42	44301	BEAV_T2	7	5	-2	0.19	0.42	0.23	-0.14	0.34	4	4	0	3000	3000	0
11/12/2024 11:42	44302	BEAV_T2	1	4	3	0.1	0.65	0.55	0	0	0	0	0	0	0	0
11/12/2024 11:42	44801	EDAN_T2	1	2	1	0.5	0.65	0.15	0	0	0	0	0	0	0	0
11/12/2024 11:42	44502	HAMI_T2	1	1	0	2.6	3.1	0.5	0	0	0	0	0	0	0	0
11/12/2024 11:43	45501	DERR_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/12/2024 11:43	44802	EDAN_T2	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
11/12/2024 11:43	44801	EDAN_T2	1	2	1	0.5	0.65	0.15	0	0	0	0	0	0	0	0
11/12/2024 11:43	61801	EELI_T2	1	6	5	0.2	0.42	0.22	0	0	0	0	0	0	0	0
11/12/2024 11:43	45502	DERR_T2	0	0	0	0	0	0	0.19	0.08	1	1	0	300	300	0
11/12/2024 11:43	61803	EELI_T2	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
11/12/2024 11:44	44802	EDAN_T2	0	0	0	0	0	0	-2.73	-2.76	0	0	0	0	0	0
11/12/2024 11:44	60902	DONG_T2	1	5	4	0.3	0.3	0	0.56	0.54	0	0	0	0	0	0
11/12/2024 11:44	60903	DONG_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/12/2024 11:44	60904	DONG_T2	1	4	3	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
11/12/2024 11:44	44801	EDAN_T2	1	2	1	0.5	0.65	0.15	0	0	0	0	0	0	0	0
11/12/2024 11:44	60901	DONG_T2	3	7	4	0.57	0.47	-0.1	0	0	0	0	0	0	0	0
11/12/2024 11:44	45501	DERR_T2	1	1	0	0.3	0.5	0.2	0.78	0.75	2	2	0	1800	1800	0
11/12/2024 11:44	45502	DERR_T2	0	0	0	0	0	0	0.19	0.08	1	1	0	300	300	0
11/12/2024 11:45	44801	EDAN_T2	1	2	1	0.6	0.65	0.05	0	0	0	0	0	0	0	0
11/12/2024 11:45	45501	DERR_T2	1	2	1	0.1	0.4	0.3	0.78	0.75	2	2	0	1800	1800	0
11/12/2024 11:45	44802	EDAN_T2	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
11/12/2024 11:50	60502	NMAN_T2	6	9	3	0.45	0.38	-0.07	-0.3	-0.25	0	0	0	0	0	0
11/12/2024 11:50	27504	WEIS_T1	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
11/12/2024 11:50	60504	NMAN_T2	3	3	0	0.67	0.73	0.06	0	0	0	0	0	0	0	0
11/12/2024 11:50	58202	NEWV_T1	0	0	0	0	0	0	-0.41	-0.5	0	0	0	0	0	0
11/12/2024 11:50	58201	NEWV_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/12/2024 11:50	60501	NMAN_T2	34	27	-7	0.21	0.26	0.05	0	0	0	0	0	0	0	0
11/12/2024 11:51	43801	SWIL_T1	1	2	1	4.8	2.55	-2.25	0	0	0	0	0	0	0	0
11/12/2024 11:51	57201	ROSS_T1	6	4	-2	0.28	0.35	0.07	0	0	0	0	0	0	0	0
11/12/2024 11:51	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 11:51	57205	ROSS_T1	7	4	-3	0.51	0.6	0.09	0	0	0	0	0	0	0	0
11/12/2024 11:51	57203	ROSS_T1	0	0	0	0	0	0	0.39	0.29	0	0	0	0	0	0
11/12/2024 11:52	66501	SMAN_T2	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
11/12/2024 11:52	66505	SMAN_T2	1	6	5	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/12/2024 11:52	66504	SMAN_T2	9	24	15	0.56	0.41	-0.15	-0.55	-0.63	0	0	0	0	0	0
11/12/2024 11:52	66502	SMAN_T2	16	21	5	0.36	0.36	0	0	0	0	0	0	0	0	0
11/12/2024 11:54	14705	TREX_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
11/12/2024 11:54	14704	TREX_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
11/12/2024 11:54	43801	SWIL_T1	1	2	1	4.8	2.55	-2.25	0	0	0	0	0	0	0	0
11/12/2024 11:54	66501	SMAN_T2	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
11/12/2024 11:54	66504	SMAN_T2	9	24	15	0.56	0.41	-0.15	0	0	0	0	0	0	0	0
11/12/2024 11:54	43802	SWIL_T1	0	0	0	0	0	0	-0.24	-0.25	1	1	0	600	600	0
11/12/2024 11:54	66505	SMAN_T2	1	6	5	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/12/2024 11:54	66502	SMAN_T2	16	21	5	0.36	0.36	0	0.34	0.31	0	0	0	0	0	0
11/12/2024 11:55	66505	SMAN_T2	1	6	5	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/12/2024 11:55	66502	SMAN_T2	16	21	5	0.36	0.36	0	0.34	0.31	0	0	0	0	0	0
11/12/2024 11:55	66501	SMAN_T2	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
11/12/2024 11:55	66504	SMAN_T2	9	24	15	0.56	0.41	-0.15	0	0	0	0	0	0	0	0
11/12/2024 11:56	66504	SMAN_T2	9	24	15	0.56	0.41	-0.15	-0.55	-0.63	0	0	0	0	0	0
11/12/2024 11:56	66502	SMAN_T2	16	21	5	0.36	0.36	0	1.01	0.92	0	0	0	0	0	0
11/12/2024 11:56	66501	SMAN_T2	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
11/12/2024 11:56	66505	SMAN_T2	1	6	5	0.2	0.5	0.3	-0.06	0.07	1	1	0	900	900	0
11/12/2024 11:57	66504	SMAN_T2	9	24	15	0.56	0.41	-0.15	-0.55	-0.63	0	0	0	0	0	0
11/12/2024 11:57	44302	BEAV_T2	3	8	5	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
11/12/2024 11:57	60902	DONG_T2	4	8	4	0.28	0.29	0.01	0.27	0.3	0	0	0	0	0	0
11/12/2024 11:57	60903	DONG_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
11/12/2024 11:57	66501	SMAN_T2	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
11/12/2024 11:57	66503	SMAN_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
11/12/2024 11:57	60904	DONG_T2	3	7	4	0.37	0.31	-0.06	0	0	0	0	0	0	0	0
11/12/2024 11:57	66505	SMAN_T2	1	6	5	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/12/2024 11:57	60901	DONG_T2	4	7	3	0.58	0.51	-0.07	0	0	0	0	0	0	0	0
11/12/2024 11:57	66502	SMAN_T2	16	21	5	0.36	0.36	0	0.68	0.62	0	0	0	0	0	0
11/12/2024 11:57	44301	BEAV_T2	2	5	3	0.6	0.38	-0.22	0.17	-0.17	2	2	0	1500	1500	0
11/12/2024 11:58	60903	DONG_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
11/12/2024 11:58	60901	DONG_T2	4	7	3	0.58	0.51	-0.07	0	0	0	0	0	0	0	0
11/12/2024 11:58	44302	BEAV_T2	3	8	5	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
11/12/2024 11:58	60904	DONG_T2	3	7	4	0.37	0.31	-0.06	0	0	0	0	0	0	0	0
11/12/2024 11:58	44301	BEAV_T2	2	5	3	0.6	0.38	-0.22	0	0	0	0	0	0	0	0
11/12/2024 11:58	66505	SMAN_T2	1	6	5	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/12/2024 11:58	60902	DONG_T2	4	8	4	0.28	0.29	0.01	0	0	0	0	0	0	0	0
11/12/2024 11:58	66502	SMAN_T2	16	21	5	0.36	0.36	0	0.34	0.31	0	0	0	0	0	0
11/12/2024 11:58	66504	SMAN_T2	9	24	15	0.56	0.41	-0.15	0	0	0	0	0	0	0	0
11/12/2024 11:58	66501	SMAN_T2	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
11/12/2024 12:01	25402	LAHA_T2	0	0	0	0	0	0	-0.38	-0.36	0	0	0	0	0	0
11/12/2024 12:02	45701	LIND_T2	1	0	-1	0.1	0	-0.1	-1.67	-0.33	0	0	0	0	0	0
11/12/2024 12:02	66505	SMAN_T2	6	4	-2	0.5	0.45	-0.05	-0.06	0.07	1	1	0	900	900	0
11/12/2024 12:02	66501	SMAN_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
11/12/2024 12:02	42901	MIDD_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
11/12/2024 12:02	66502	SMAN_T2	20	24	4	0.32	0.45	0.13	0	0	0	0	0	0	0	0
11/12/2024 12:02	66504	SMAN_T2	20	31	11	0.45	0.39	-0.06	0	0	0	0	0	0	0	0
11/12/2024 12:02	45702	LIND_T2	2	2	0	1.05	0.8	-0.25	0	0	0	0	0	0	0	0
11/12/2024 12:02	42902	MIDD_T2	6	5	-1	0.62	0.78	0.16	-0.18	-0.47	0	0	0	0	0	0
11/12/2024 12:02	42903	MIDD_T2	2	2	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
11/12/2024 12:03	52401	GRPA_T2	5	6	1	0.36	0.43	0.07	0	0	0	0	0	0	0	0
11/12/2024 12:03	52402	GRPA_T2	20	15	-5	0.65	0.65	0	-0.86	-0.9	0	0	0	0	0	0
11/12/2024 12:03	42903	MIDD_T2	2	2	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
11/12/2024 12:03	42902	MIDD_T2	6	5	-1	0.62	0.78	0.16	0	0	0	0	0	0	0	0
11/12/2024 12:03	42901	MIDD_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
11/12/2024 12:03	52403	GRPA_T2	100	95	-5	0.47	0.47	0	0	0	0	0	0	0	0	0
11/12/2024 12:04	55002	NEWP_T1	12	18	6	0.95	0.88	-0.07	-0.26	-0.24	0	0	0	0	0	0
11/12/2024 12:04	52403	GRPA_T2	100	95	-5	0.47	0.47	0	-0.09	-0.13	0	0	0	0	0	0
11/12/2024 12:04	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 12:04	55001	NEWP_T1	3	3	0	0.37	0.4	0.03	0	0	0	0	0	0	0	0
11/12/2024 12:04	52401	GRPA_T2	5	6	1	0.36	0.43	0.07	0	0	0	0	0	0	0	0
11/12/2024 12:04	52402	GRPA_T2	20	15	-5	0.65	0.65	0	0	0	0	0	0	0	0	0
11/12/2024 12:05	55001	NEWP_T1	3	3	0	0.37	0.4	0.03	-0.58	-0.52	0	0	0	0	0	0
11/12/2024 12:05	55002	NEWP_T1	12	18	6	0.95	0.88	-0.07	-0.52	-0.48	0	0	0	0	0	0
11/12/2024 12:05	64702	LITI_T2	0	0	0	0	0	0	-1.46	-1.54	0	0	0	0	0	0
11/12/2024 12:06	60502	NMAN_T2	6	11	5	0.48	0.47	-0.01	0	0	0	0	0	0	0	0
11/12/2024 12:06	14801	TREI_T2	5	10	5	0.56	0.41	-0.15	0	0	0	0	0	0	0	0
11/12/2024 12:06	14802	TREI_T2	2	5	3	0.3	0.28	-0.02	0.36	0.32	0	0	0	0	0	0
11/12/2024 12:06	60501	NMAN_T2	25	40	15	0.24	0.26	0.02	0	0	0	0	0	0	0	0
11/12/2024 12:06	55001	NEWP_T1	3	3	0	0.37	0.4	0.03	0	0	0	0	0	0	0	0
11/12/2024 12:06	55002	NEWP_T1	12	18	6	0.95	0.88	-0.07	-0.24	-0.23	0	0	0	0	0	0
11/12/2024 12:06	60504	NMAN_T2	3	3	0	0.73	0.73	0	0	0	0	0	0	0	0	0
11/12/2024 12:07	55002	NEWP_T1	12	18	6	0.95	0.88	-0.07	0	0	0	0	0	0	0	0
11/12/2024 12:07	42903	MIDD_T2	2	2	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
11/12/2024 12:07	42902	MIDD_T2	6	5	-1	0.62	0.78	0.16	-0.23	-0.26	0	0	0	0	0	0
11/12/2024 12:07	55001	NEWP_T1	3	3	0	0.37	0.4	0.03	-0.26	-0.25	0	0	0	0	0	0
11/12/2024 12:07	42901	MIDD_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
11/12/2024 12:08	58003	WCAR_T1	1	2	1	0.9	0.55	-0.35	0.04	0	1	1	0	600	600	0
11/12/2024 12:08	58001	WCAR_T1	4	4	0	1	1.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/12/2024 12:09	58003	WCAR_T1	1	2	1	0.9	0.55	-0.35	0.08	0	2	2	0	1200	1200	0
11/12/2024 12:09	58001	WCAR_T1	4	4	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/12/2024 12:10	14802	TREI_T2	2	5	3	0.3	0.28	-0.02	0.36	0.32	0	0	0	0	0	0
11/12/2024 12:10	42701	AUGU_T1	4	4	0	0.7	0.55	-0.15	0	0	2	2	0	1800	1800	0
11/12/2024 12:10	14801	TREI_T2	5	10	5	0.56	0.41	-0.15	0	0	0	0	0	0	0	0
11/12/2024 12:11	42701	AUGU_T1	4	4	0	0.7	0.55	-0.15	0	0	2	2	0	1800	1800	0
11/12/2024 12:12	60902	DONG_T2	4	10	6	0.35	0.3	-0.05	0.3	0.29	0	0	0	0	0	0
11/12/2024 12:12	60901	DONG_T2	7	8	1	0.47	0.51	0.04	0	0	0	0	0	0	0	0
11/12/2024 12:12	60904	DONG_T2	4	10	6	0.35	0.39	0.04	0	0	0	0	0	0	0	0
11/12/2024 12:12	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 12:12	50624	CCTY_T2	2	2	0	6.1	6.1	0	0	0	0	0	0	0	0	0
11/12/2024 12:12	50625	CCTY_T2	6	6	0	2.4	2.42	0.02	0	0	0	0	0	0	0	0
11/12/2024 12:12	50623	CCTY_T2	5	5	0	5.5	5.56	0.06	0	0	0	0	0	0	0	0
11/12/2024 12:12	60903	DONG_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
11/12/2024 12:13	60201	ATGL_T2	94	0	-94	0.18	0	-0.18	0.73	0.74	0	0	0	0	0	0
11/12/2024 12:13	23901	EFMO_T2	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
11/12/2024 12:14	48901	FOSP_T2	0	0	0	0	0	0	-0.09	-0.07	1	1	0	600	600	0
11/12/2024 12:15	57104	SPHI_T2	4	4	0	0.88	1.33	0.45	0.47	0.45	0	0	0	0	0	0
11/12/2024 12:15	57106	SPHI_T2	4	4	0	1	1.23	0.23	0	0	0	0	0	0	0	0
11/12/2024 12:15	57103	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/12/2024 12:15	48901	FOSP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/12/2024 12:15	57101	SPHI_T2	6	7	1	1.42	1.06	-0.36	0	0	0	0	0	0	0	0
11/12/2024 12:15	48902	FOSP_T2	0	1	1	0	0.2	0.2	0.59	0.88	0	0	0	0	0	0
11/12/2024 12:16	44801	EDAN_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
11/12/2024 12:16	48902	FOSP_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/12/2024 12:16	45802	HEGI_T2	1	3	2	0.2	0.13	-0.07	1.4	1.34	0	0	0	0	0	0
11/12/2024 12:16	48901	FOSP_T2	0	1	1	0	0.1	0.1	-0.09	-0.07	1	1	0	600	600	0
11/12/2024 12:16	44802	EDAN_T2	0	0	0	0	0	0	-0.91	-0.97	0	0	0	0	0	0
11/12/2024 12:17	48901	FOSP_T2	0	1	1	0	0.1	0.1	-0.27	-0.21	3	3	0	1800	1800	0
11/12/2024 12:17	48902	FOSP_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/12/2024 12:17	63202	MGTN_T2	2	3	1	6.05	6.5	0.45	-0.28	-0.35	0	0	0	0	0	0
11/12/2024 12:19	47802	MOCA_T2	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
11/12/2024 12:19	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 12:20	43202	MVIL_T2	60	63	3	0.38	0.38	0	-0.67	-0.65	0	0	0	0	0	0
11/12/2024 12:20	43201	MVIL_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
11/12/2024 12:21	57403	SPAN_T1	217	224	7	0.52	0.63	0.11	-0.02	0.01	0	0	0	0	0	0
11/12/2024 12:21	47802	MOCA_T2	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
11/12/2024 12:21	57401	SPAN_T1	4	3	-1	0.85	1.17	0.32	0	0	0	0	0	0	0	0
11/12/2024 12:21	40101	HUNT_T2	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
11/12/2024 12:22	66503	MOJO_T2	0	1	1	0	0.1	0.1	-0.25	-0.18	0	0	0	0	0	0
11/12/2024 12:24	57401	SPAN_T1	4	3	-1	0.85	1.17	0.32	0	0	0	0	0	0	0	0
11/12/2024 12:24	57403	SPAN_T1	217	224	7	0.52	0.63	0.11	-0.02	0.01	0	0	0	0	0	0
11/12/2024 12:27	10705	CATA_T2	3	2	-1	1	1.25	0.25	-1.02	-0.94	1	1	0	900	900	0
11/12/2024 12:27	10707	CATA_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
11/12/2024 12:27	10702	CATA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/12/2024 12:29	45501	DERR_T2	2	1	-1	0.4	0.5	0.1	0.67	0.72	2	2	0	1800	1800	0
11/12/2024 12:30	10707	CATA_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/12/2024 12:30	10705	CATA_T2	1	2	1	2.4	1.25	-1.15	-2.04	-1.89	2	2	0	1800	1800	0
11/12/2024 12:30	41205	KENM_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	600	600	0
11/12/2024 12:30	41202	KENM_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
11/12/2024 12:32	10707	CATA_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/12/2024 12:32	10705	CATA_T2	1	2	1	2.4	1.25	-1.15	-1.02	-0.94	1	1	0	900	900	0
11/12/2024 12:35	58401	MORO_T1	2	1	-1	0.25	0.2	-0.05	0	0	1	1	0	600	600	0
11/12/2024 12:36	60502	NMAN_T2	11	11	0	0.46	0.48	0.02	-0.27	-0.26	0	0	0	0	0	0
11/12/2024 12:36	60504	NMAN_T2	2	3	1	0.4	0.63	0.23	0	0	0	0	0	0	0	0
11/12/2024 12:36	60501	NMAN_T2	38	41	3	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
11/12/2024 12:36	58401	MORO_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
11/12/2024 12:37	60504	NMAN_T2	2	3	1	0.4	0.63	0.23	0	0	0	0	0	0	0	0
11/12/2024 12:37	60502	NMAN_T2	11	11	0	0.46	0.48	0.02	0	0	0	0	0	0	0	0
11/12/2024 12:37	60501	NMAN_T2	38	41	3	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
11/12/2024 12:37	58401	MORO_T1	2	1	-1	0.25	0.2	-0.05	0	0	1	1	0	600	600	0
11/12/2024 12:38	14801	TREI_T2	7	10	3	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
11/12/2024 12:38	14802	TREI_T2	5	6	1	0.26	0.28	0.02	0.33	0.31	0	0	0	0	0	0
11/12/2024 12:39	20403	ASHF_T2	3	3	0	0.23	0.27	0.04	0	0	0	0	0	0	0	0
11/12/2024 12:39	66502	SMAN_T2	24	23	-1	0.45	0.45	0	0.22	0.22	0	0	0	0	0	0
11/12/2024 12:39	20401	ASHF_T2	2	2	0	0.6	0.2	-0.4	-0.38	-0.4	0	0	0	0	0	0
11/12/2024 12:39	66504	SMAN_T2	30	24	-6	0.38	0.39	0.01	0	0	0	0	0	0	0	0
11/12/2024 12:39	66505	SMAN_T2	4	3	-1	0.45	0.6	0.15	0	0	0	0	0	0	0	0
11/12/2024 12:39	66501	SMAN_T2	2	2	0	1.1	1.05	-0.05	0	0	0	0	0	0	0	0
11/12/2024 12:40	46004	BERW_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/12/2024 12:40	46005	BERW_T1	3	2	-1	0.47	0.35	-0.12	0	0	0	0	0	0	0	0
11/12/2024 12:40	46002	BERW_T2	4	0	-4	0.2	0	-0.2	-0.71	-0.68	1	1	0	900	900	0
11/12/2024 12:40	46001	BERW_T1	0	0	0	0	0	0	1.68	1.78	0	0	0	0	0	0
11/12/2024 12:41	20401	ASHF_T2	2	2	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
11/12/2024 12:41	14802	TREI_T2	5	6	1	0.26	0.28	0.02	0.33	0.31	0	0	0	0	0	0
11/12/2024 12:41	20403	ASHF_T2	3	3	0	0.23	0.27	0.04	1.25	1.31	0	0	0	0	0	0
11/12/2024 12:41	14801	TREI_T2	7	10	3	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
11/12/2024 12:42	20401	ASHF_T2	2	2	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
11/12/2024 12:42	20403	ASHF_T2	3	3	0	0.23	0.27	0.04	1.25	1.31	0	0	0	0	0	0
11/12/2024 12:42	46002	BERW_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/12/2024 12:42	46004	BERW_T2	1	1	0	0.4	0.3	-0.1	-0.47	-0.43	0	0	0	0	0	0
11/12/2024 12:43	66501	SMAN_T2	2	2	0	1.1	1.05	-0.05	0	0	0	0	0	0	0	0
11/12/2024 12:43	66505	SMAN_T2	4	3	-1	0.45	0.6	0.15	0	0	0	0	0	0	0	0
11/12/2024 12:43	66504	SMAN_T2	30	24	-6	0.38	0.39	0.01	-0.61	-0.53	0	0	0	0	0	0
11/12/2024 12:43	66502	SMAN_T2	24	23	-1	0.45	0.45	0	0	0	0	0	0	0	0	0
11/12/2024 12:44	66502	SMAN_T2	24	23	-1	0.45	0.45	0	0	0	0	0	0	0	0	0
11/12/2024 12:44	66504	SMAN_T2	30	24	-6	0.38	0.39	0.01	-0.61	-0.53	0	0	0	0	0	0
11/12/2024 12:44	66501	SMAN_T2	2	2	0	1.1	1.05	-0.05	0	0	0	0	0	0	0	0
11/12/2024 12:44	66505	SMAN_T2	4	3	-1	0.45	0.6	0.15	0	0	0	0	0	0	0	0
11/12/2024 12:46	40701	FFLD_T1	31	24	-7	0.34	0.21	-0.13	0	0	0	0	0	0	0	0
11/12/2024 12:46	40703	FFLD_T1	3	1	-2	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
11/12/2024 12:46	64704	LITI_T1	0	0	0	0	0	0	0.23	0.43	1	1	0	600	600	0
11/12/2024 12:46	40702	FFLD_T1	2	1	-1	0.3	0.2	-0.1	-0.25	-0.14	1	1	0	1200	1200	0
11/12/2024 12:47	65702	RVIL_T2	0	0	0	0	0	0	-0.67	-0.63	0	0	0	0	0	0
11/12/2024 12:47	40702	FFLD_T1	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/12/2024 12:47	40703	FFLD_T1	3	1	-2	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
11/12/2024 12:47	40701	FFLD_T1	31	24	-7	0.34	0.21	-0.13	0	0	0	0	0	0	0	0
11/12/2024 12:48	43202	MVIL_T2	63	68	5	0.38	0.49	0.11	-0.66	-0.66	0	0	0	0	0	0
11/12/2024 12:48	43201	MVIL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/12/2024 12:49	64704	LITI_T1	0	0	0	0	0	0	0.23	0.43	1	1	0	600	600	0
11/12/2024 12:50	43201	MVIL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/12/2024 12:50	43202	MVIL_T2	63	68	5	0.38	0.49	0.11	-0.66	-0.66	0	0	0	0	0	0
11/12/2024 12:53	66504	SMAN_T2	22	15	-7	0.42	0.4	-0.02	-0.53	-0.57	0	0	0	0	0	0
11/12/2024 12:53	60101	COCA_T1	2	1	-1	0.3	0.3	0	0.21	0.23	0	0	0	0	0	0
11/12/2024 12:53	66502	SMAN_T2	22	16	-6	0.46	0.38	-0.08	0	0	0	0	0	0	0	0
11/12/2024 12:53	66501	SMAN_T2	2	2	0	1.05	0.9	-0.15	0	0	0	0	0	0	0	0
11/12/2024 12:53	66505	SMAN_T2	2	4	2	0.45	0.55	0.1	0	0	0	0	0	0	0	0
11/12/2024 12:54	42701	AUGU_T1	1	1	0	0.2	0.5	0.3	0	0	2	2	0	1800	1800	0
11/12/2024 12:57	45501	DERR_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/12/2024 12:57	45502	DERR_T2	0	1	1	0	0	0	0.15	0.17	1	1	0	300	300	0
11/12/2024 12:58	42701	AUGU_T1	1	1	0	0.2	0.5	0.3	0	0	2	2	0	1800	1800	0
11/12/2024 12:58	55002	NEWP_T1	22	14	-8	0.54	0.84	0.3	-0.26	-0.27	0	0	0	0	0	0
11/12/2024 12:58	55001	NEWP_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/12/2024 13:01	45802	HEGI_T2	9	23	14	0.47	0.32	-0.15	1.39	1.43	0	0	0	0	0	0
11/12/2024 13:04	45802	HEGI_T2	9	23	14	0.47	0.32	-0.15	0	0	0	0	0	0	0	0
11/12/2024 13:10	14802	TREI_T2	5	7	2	0.3	0.21	-0.09	0.31	0.28	0	0	0	0	0	0
11/12/2024 13:10	14801	TREI_T2	8	10	2	0.46	0.47	0.01	0	0	0	0	0	0	0	0
11/12/2024 13:17	63602	LETO_T1	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
11/12/2024 13:17	63601	LETO_T1	8	12	4	0.95	0.63	-0.32	1.28	1.43	0	0	0	0	0	0
11/12/2024 13:18	63602	LETO_T1	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
11/12/2024 13:18	63601	LETO_T1	8	12	4	0.95	0.63	-0.32	1.28	1.43	0	0	0	0	0	0
11/12/2024 13:22	55002	NEWP_T1	13	21	8	0.88	0.83	-0.05	0	0	0	0	0	0	0	0
11/12/2024 13:22	55001	NEWP_T1	1	2	1	0.2	0.3	0.1	-0.26	-0.26	0	0	0	0	0	0
11/12/2024 13:28	67402	WAKE_T2	0	0	0	0	0	0	1.01	1.03	0	0	0	0	0	0
11/12/2024 13:28	67401	WAKE_T2	1	3	2	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
11/12/2024 13:39	57205	ROSS_T1	4	3	-1	0.58	0.77	0.19	0	0	0	0	0	0	0	0
11/12/2024 13:39	57201	ROSS_T1	4	3	-1	0.33	0.33	0	-0.49	-0.43	0	0	0	0	0	0
11/12/2024 13:41	43301	WATS_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
11/12/2024 13:41	20401	ASHF_T2	3	5	2	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
11/12/2024 13:41	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 13:41	20403	ASHF_T2	74	63	-11	0.31	0.25	-0.06	0.98	0.93	0	0	0	0	0	0
11/12/2024 13:42	43304	WATS_T2	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
11/12/2024 13:42	43301	WATS_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
11/12/2024 13:42	43402	BENT_T1	0	1	1	0	0.5	0.5	-0.79	-0.73	1	1	0	900	900	0
11/12/2024 13:44	20403	ASHF_T2	74	63	-11	0.31	0.25	-0.06	0.98	0.93	0	0	0	0	0	0
11/12/2024 13:44	20401	ASHF_T2	3	5	2	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
11/12/2024 13:46	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 13:46	21206	ECAR_T2	1	1	0	7.8	8.1	0.3	0.3	0.32	0	0	0	0	0	0
11/12/2024 13:48	43402	BENT_T1	1	1	0	0.5	0.4	-0.1	-0.79	-0.73	1	1	0	900	900	0
11/12/2024 13:49	59301	MCAL_T1	3	3	0	0.27	0.33	0.06	-1.66	-1.64	1	1	0	600	600	0
11/12/2024 13:50	45802	HEGI_T2	15	18	3	0.37	0.45	0.08	0	0	0	0	0	0	0	0
11/12/2024 14:01	65207	PRIN_T4	8	7	-1	0.63	0.63	0	0	0	2	2	0	1800	1800	0
11/12/2024 14:01	65206	PRIN_T4	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/12/2024 14:04	65503	MOJO_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/12/2024 14:04	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 14:05	52503	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 14:05	52502	PROG_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
11/12/2024 14:07	66505	SMAN_T2	3	3	0	0.53	0.57	0.04	0	0	0	0	0	0	0	0
11/12/2024 14:07	66502	SMAN_T2	10	9	-1	0.36	0.52	0.16	0	0	0	0	0	0	0	0
11/12/2024 14:07	66504	SMAN_T2	8	4	-4	0.39	0.38	-0.01	-0.61	-0.5	0	0	0	0	0	0
11/12/2024 14:07	66501	SMAN_T2	2	2	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
11/12/2024 14:08	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 14:08	67701	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/12/2024 14:09	64303	LINC_T1	0	0	0	0	0	0	-0.24	-0.18	0	0	0	0	0	0
11/12/2024 14:11	61503	EPET_T1	0	0	0	0	0	0	-0.9	-0.97	0	0	0	0	0	0
11/12/2024 14:11	61502	EPET_T1	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
11/12/2024 14:12	55002	NEWP_T1	14	13	-1	1.09	1.06	-0.03	0	0	0	0	0	0	0	0
11/12/2024 14:12	55001	NEWP_T1	2	1	-1	0.15	0.4	0.25	-0.29	-0.29	0	0	0	0	0	0
11/12/2024 14:13	61505	EPET_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
11/12/2024 14:13	61502	EPET_T1	2	2	0	0.3	0.15	-0.15	-1.16	-1.09	0	0	0	0	0	0
11/12/2024 14:14	61502	EPET_T1	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
11/12/2024 14:14	44802	EDAN_T2	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
11/12/2024 14:14	44801	EDAN_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/12/2024 14:14	61503	EPET_T1	0	0	0	0	0	0	-0.9	-0.97	0	0	0	0	0	0
11/12/2024 14:15	40101	HUNT_T2	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/12/2024 14:19	63601	LETO_T1	8	7	-1	0.75	0.77	0.02	1.53	1.31	0	0	0	0	0	0
11/12/2024 14:19	63602	LETO_T1	76	57	-19	0.16	0.12	-0.04	0	0	0	0	0	0	0	0
11/12/2024 14:24	67402	WAKE_T2	0	1	1	0	0.1	0.1	0.99	0.38	0	0	0	0	0	0
11/12/2024 14:24	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/12/2024 14:24	16101	BING_T2	1	1	0	0.1	0.5	0.4	0.26	0.27	0	0	0	0	0	0
11/12/2024 14:24	16103	BING_T2	0	12	12	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 14:28	16101	BING_T2	1	1	0	0.1	0.5	0.4	0.26	0.27	0	0	0	0	0	0
11/12/2024 14:28	16103	BING_T2	0	12	12	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 14:34	63602	LETO_T1	57	22	-35	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
11/12/2024 14:34	63601	LETO_T1	7	7	0	0.77	0.64	-0.13	1.31	1.58	0	0	0	0	0	0
11/12/2024 14:35	63602	LETO_T1	57	22	-35	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
11/12/2024 14:35	63601	LETO_T1	7	7	0	0.77	0.64	-0.13	1.31	1.58	0	0	0	0	0	0
11/12/2024 14:41	14201	EALL_T1	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
11/12/2024 14:41	63801	HEMP_T1	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
11/12/2024 14:41	63803	HEMP_T1	2	4	2	0.45	0.23	-0.22	0	0	0	0	0	0	0	0
11/12/2024 14:41	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
11/12/2024 14:41	63802	HEMP_T1	0	0	0	0	0	0	0.19	0.12	0	0	0	0	0	0
11/12/2024 14:42	63803	HEMP_T1	2	4	2	0.45	0.23	-0.22	0.07	0.09	0	0	0	0	0	0
11/12/2024 14:42	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
11/12/2024 14:42	63801	HEMP_T1	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
11/12/2024 14:43	22903	HARW_T1	23	23	0	0.92	0	-0.92	0.34	0.31	0	0	0	0	0	0
11/12/2024 14:44	63801	HEMP_T1	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
11/12/2024 14:44	63803	HEMP_T1	2	4	2	0.45	0.23	-0.22	0.07	0.09	0	0	0	0	0	0
11/12/2024 14:44	44302	BEAV_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
11/12/2024 14:44	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
11/12/2024 14:44	20603	GRWO_T2	26	70	44	0.34	0.31	-0.03	0.34	0.3	0	0	0	0	0	0
11/12/2024 14:45	63801	HEMP_T1	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
11/12/2024 14:45	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	0.91	0.88	0	0	0	0	0	0
11/12/2024 14:45	63803	HEMP_T1	3	4	1	0.27	0.23	-0.04	0.07	0.09	0	0	0	0	0	0
11/12/2024 14:46	63803	HEMP_T1	3	4	1	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
11/12/2024 14:46	63801	HEMP_T1	2	2	0	0.35	0.15	-0.2	0.03	0.5	0	0	0	0	0	0
11/12/2024 14:46	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
11/12/2024 14:46	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 14:47	63803	HEMP_T1	3	4	1	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
11/12/2024 14:47	63801	HEMP_T1	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
11/12/2024 14:47	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
11/12/2024 14:47	63802	HEMP_T1	0	0	0	0	0	0	0.19	0.12	0	0	0	0	0	0
11/12/2024 14:52	65205	PRIN_T1	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/12/2024 14:52	55101	WERT_T1	0	0	0	0	0	0	-0.82	-0.77	1	1	0	600	600	0
11/12/2024 14:53	43304	WATS_T2	0	0	0	0	0	0	-0.62	-0.66	0	0	0	0	0	0
11/12/2024 14:53	43301	WATS_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/12/2024 14:53	43302	WATS_T2	4	3	-1	0.28	0.13	-0.15	0	0	0	0	0	0	0	0
11/12/2024 14:57	63803	HEMP_T1	3	4	1	0.27	0.23	-0.04	0.09	0.1	0	0	0	0	0	0
11/12/2024 14:57	63801	HEMP_T1	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
11/12/2024 14:57	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
11/12/2024 14:59	23203	HIRU_T2	0	0	0	0	0	0	0.1	0.06	0	0	0	0	0	0
11/12/2024 14:59	23201	HIRU_T2	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/12/2024 15:03	65502	MOJO_T2	0	0	0	0	0	0	-0.35	-0.62	0	0	0	0	0	0
11/12/2024 15:05	65502	MOJO_T2	0	0	0	0	0	0	-0.35	-0.62	0	0	0	0	0	0
11/12/2024 15:06	65503	MOJO_T2	0	0	0	0	0	0	-0.2	-0.28	0	0	0	0	0	0
11/12/2024 15:09	40902	JESH_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 15:09	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 15:09	40901	JESH_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/12/2024 15:10	46002	BERW_T2	0	0	0	0	0	0	-2	-1.98	2	2	0	1800	1800	0
11/12/2024 15:11	40902	JESH_T1	0	4	4	0	0	0	-0.79	-0.86	0	0	0	0	0	0
11/12/2024 15:11	40901	JESH_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/12/2024 15:13	40801	EXCH_T2	0	0	0	0	0	0	-0.54	-0.52	1	1	0	1200	1200	0
11/12/2024 15:13	40802	EXCH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 15:13	46002	BERW_T2	0	0	0	0	0	0	-1	-0.99	1	1	0	900	900	0
11/12/2024 15:14	46004	BERW_T2	0	0	0	0	0	0	-0.45	-0.52	0	0	0	0	0	0
11/12/2024 15:17	64204	KINZ_T1	3	3	0	0.43	0.47	0.04	0	0	0	0	0	0	0	0
11/12/2024 15:17	64202	KINZ_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/12/2024 15:17	64201	KINZ_T1	0	1	1	0	0.6	0.6	-0.61	-0.62	3	3	0	1500	1500	0
11/12/2024 15:18	13302	ORVI_T2	1	0	-1	0.4	0	-0.4	0.99	1.01	0	0	0	0	0	0
11/12/2024 15:19	43202	MVIL_T2	61	76	15	0.47	0.51	0.04	-0.65	-0.66	0	0	0	0	0	0
11/12/2024 15:19	23201	HIRU_T2	1	0	-1	0.1	0	-0.1	0.14	0.15	0	0	0	0	0	0
11/12/2024 15:22	43202	MVIL_T2	61	76	15	0.47	0.51	0.04	-0.66	-0.66	0	0	0	0	0	0
11/12/2024 15:27	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 15:27	10101	ALLE_T3	1	2	1	5.8	6.7	0.9	0	0	0	0	0	0	0	0
11/12/2024 15:28	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 15:28	10101	ALLE_T3	1	2	1	5.8	6.7	0.9	0	0	0	0	0	0	0	0
11/12/2024 15:29	67401	WAKE_T2	5	29	24	0.2	0.17	-0.03	-1.17	-1.19	0	0	0	0	0	0
11/12/2024 15:29	43304	WATS_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
11/12/2024 15:29	43302	WATS_T2	3	4	1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
11/12/2024 15:31	26703	HEML_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	600	600	0
11/12/2024 15:32	66502	SMAN_T2	7	4	-3	0.36	0.13	-0.23	0	0	0	0	0	0	0	0
11/12/2024 15:32	66505	SMAN_T2	3	3	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
11/12/2024 15:32	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/12/2024 15:35	44703	MUNC_T2	2	2	0	1.05	1.1	0.05	0	0	0	0	0	0	0	0
11/12/2024 15:35	44701	MUNC_T2	2	5	3	0.1	0.12	0.02	0	0	0	0	0	0	0	0
11/12/2024 15:35	44702	MUNC_T2	2	37	35	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/12/2024 15:36	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 15:45	63501	HEID_TBK1-2	36	38	2	0.37	0.51	0.14	-0.29	-0.43	1	1	0	900	900	0
11/12/2024 15:46	50506	MECH_T1	0	0	0	0	0	0	0.38	-0.1	0	0	0	0	0	0
11/12/2024 15:46	50502	MECH_T1	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
11/12/2024 15:46	50501	MECH_T1	4	4	0	1.05	1.33	0.28	0	0	0	0	0	0	0	0
11/12/2024 15:49	50502	MECH_T1	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
11/12/2024 15:49	50501	MECH_T1	4	4	0	1.05	1.33	0.28	-0.2	0.04	0	0	0	0	0	0
11/12/2024 15:53	67201	TEHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/12/2024 15:53	67203	TEHI_T1	0	0	0	0	0	0	2.12	2.07	2	2	0	1500	1500	0
11/12/2024 15:55	14801	TREI_T2	0	0	0	0	0	0	0.32	0.35	0	0	0	0	0	0
11/12/2024 16:04	12602	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 16:04	12606	MACA_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
11/12/2024 16:09	55002	NEWP_T1	6	6	0	0.83	0.73	-0.1	0	0	0	0	0	0	0	0
11/12/2024 16:09	55001	NEWP_T1	1	1	0	0.1	0.2	0.1	-0.29	-0.28	0	0	0	0	0	0
11/12/2024 16:12	40101	HUNT_T2	1	0	-1	9.5	0	-9.5	-0.77	-1.02	0	1	1	0	300	300
11/12/2024 16:32	66504	SMAN_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
11/12/2024 16:32	66505	SMAN_T2	3	2	-1	1.03	0.9	-0.13	0	0	0	0	0	0	0	0
11/12/2024 16:33	46602	LACR_T1	1	9	8	0	0.19	0.19	-1.27	-1.26	0	0	0	0	0	0
11/12/2024 18:34	10705	CATA_T2	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
11/12/2024 18:43	23201	HIRU_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
11/12/2024 18:46	20401	ASHF_T2	2	1	-1	0.15	0.1	-0.05	-0.3	-0.28	0	0	0	0	0	0
11/12/2024 18:47	26703	HEML_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	600	600	0
11/12/2024 18:47	23202	HIRU_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
11/12/2024 18:48	10101	ALLE_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
11/12/2024 18:48	10105	ALLE_T3	0	6	6	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 18:49	15203	SFAR_T2	0	0	0	0	0	0	-1.33	-1.32	0	0	0	0	0	0
11/12/2024 18:50	61701	ELIZ_T1	1	1	0	4.4	4.5	0.1	0.24	0.21	0	0	0	0	0	0
11/12/2024 18:50	23203	HIRU_T2	0	0	0	0	0	0	0.03	0.14	0	0	0	0	0	0
11/12/2024 18:50	48901	FOSP_T2	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
11/12/2024 18:50	40802	EXCH_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
11/12/2024 18:50	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 18:50	10105	ALLE_T3	0	6	6	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 18:50	10101	ALLE_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
11/12/2024 18:50	10805	OHHI_T2	1	1	0	7.2	7.1	-0.1	-1.32	-1.35	1	1	0	600	600	0
11/12/2024 18:51	20603	GRWO_T2	30	31	1	0.4	0.39	-0.01	0.38	0.37	0	0	0	0	0	0
11/12/2024 18:51	16101	BING_T2	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
11/12/2024 18:51	20601	GRWO_T2	1	3	2	0.7	1	0.3	0	0	0	0	0	0	0	0
11/12/2024 18:51	14802	TREI_T2	0	0	0	0	0	0	1.05	0.95	0	0	0	0	0	0
11/12/2024 18:51	16103	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/12/2024 18:52	22905	HARW_T1	4	14	10	0.33	0.4	0.07	0	0	0	0	0	0	0	0
11/12/2024 18:52	22901	HARW_T1	2	2	0	0.85	0	-0.85	0	0	0	0	0	0	0	0
11/12/2024 18:52	65503	MOJO_T2	2	0	-2	0.1	0	-0.1	-0.38	-0.46	0	0	0	0	0	0
11/12/2024 18:52	46004	BERW_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
11/12/2024 18:52	22903	HARW_T1	9	14	5	0.21	0	-0.21	0.15	0.14	0	0	0	0	0	0
11/12/2024 18:52	10105	ALLE_T3	0	6	6	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 18:52	65502	MOJO_T2	122	15	-107	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
11/12/2024 18:52	41402	BENT_T1	0	1	1	0	0	0	-0.9	-0.93	1	1	0	900	900	0
11/12/2024 18:52	46002	BERW_T2	0	0	0	0	0	0	-1.14	-1.18	1	1	0	900	900	0
11/12/2024 18:52	10101	ALLE_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
11/12/2024 18:52	46001	BERW_T1	0	0	0	0	0	0	0.65	0.67	0	0	0	0	0	0
11/12/2024 18:52	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 18:52	43401	BENT_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/12/2024 18:53	16101	BING_T2	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
11/12/2024 18:53	14705	TREX_T1	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
11/12/2024 18:53	44802	EDAN_T2	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
11/12/2024 18:53	14704	TREX_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
11/12/2024 18:53	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 18:53	67401	PENS_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
11/12/2024 18:53	46004	BERW_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
11/12/2024 18:53	67001	STHI_T2	519	588	69	0.24	0.24	0	0.09	0.06	0	0	0	0	0	0
11/12/2024 18:53	47203	FAXO_T2	1	1	0	0.3	0	-0.3	-1.75	-1.76	1	1	0	1200	1200	0
11/12/2024 18:53	10105	ALLE_T3	0	6	6	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 18:53	67002	STHI_T2	127	140	13	0.15	0.15	0	1.12	1.14	0	0	0	0	0	0
11/12/2024 18:53	16103	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/12/2024 18:53	13302	ORVI_T2	0	0	0	0	0	0	1.08	1.11	0	0	0	0	0	0
11/12/2024 18:53	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	2	2	0	1800	1800	0
11/12/2024 18:53	46002	BERW_T2	0	0	0	0	0	0	-1.14	-1.18	1	1	0	900	900	0
11/12/2024 18:53	14706	TREX_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 18:53	44801	EDAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/12/2024 18:53	41205	KENM_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	600	600	0
11/12/2024 18:53	10101	ALLE_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
11/12/2024 18:53	14201	EALL_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
11/12/2024 18:54	60101	COCA_T1	0	0	0	0	0	0	0.48	0.43	0	0	0	0	0	0
11/12/2024 18:54	14801	TREI_T2	0	0	0	0	0	0	1.03	0.98	0	0	0	0	0	0
11/12/2024 18:54	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
11/12/2024 18:54	43301	WATS_T2	0	0	0	0	0	0	-0.87	-0.86	1	1	0	900	900	0
11/12/2024 18:54	15203	SFAR_T2	0	0	0	0	0	0	-1.32	-1.34	0	0	0	0	0	0
11/12/2024 18:54	67002	STHI_T2	127	140	13	0.15	0.15	0	0.56	0.57	0	0	0	0	0	0
11/12/2024 18:54	64302	LINC_T2	0	0	0	0	0	0	1.09	0.98	0	0	0	0	0	0
11/12/2024 18:54	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/12/2024 18:54	10705	CATA_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
11/12/2024 18:54	43302	WATS_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/12/2024 18:54	20401	ASHF_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/12/2024 18:54	67001	STHI_T2	519	588	69	0.24	0.24	0	0	0	0	0	0	0	0	0
11/12/2024 18:54	63501	HEID_TBK1-2	1	1	0	1.2	0.5	-0.7	0.39	0.4	0	0	0	0	0	0
11/12/2024 18:55	54505	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/12/2024 18:55	50501	MECH_T1	4	4	0	0.73	0.95	0.22	0	0	0	0	0	0	0	0
11/12/2024 18:55	46002	BERW_T2	0	0	0	0	0	0	-1.14	-1.18	1	1	0	900	900	0
11/12/2024 18:55	60501	NMAN_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/12/2024 18:55	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	2	2	0	1800	1800	0
11/12/2024 18:55	44801	EDAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/12/2024 18:55	50505	MECH_T1	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
11/12/2024 18:55	55002	NEWP_T1	3	5	2	0.33	0.42	0.09	-0.24	-0.26	0	0	0	0	0	0
11/12/2024 18:55	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 18:55	40101	HUNT_T2	0	140	140	0	0.21	0.21	-0.71	-0.72	0	0	0	0	0	0
11/12/2024 18:55	22905	HARW_T1	4	14	10	0.33	0.4	0.07	0	0	0	0	0	0	0	0
11/12/2024 18:55	22903	HARW_T1	9	14	5	0.21	0	-0.21	0	0	0	0	0	0	0	0
11/12/2024 18:55	61503	EPET_T1	0	0	0	0	0	0	-1.1	-1.09	0	0	0	0	0	0
11/12/2024 18:55	60502	NMAN_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
11/12/2024 18:55	48902	FOSP_T2	0	0	0	0	0	0	0.1	0.05	0	0	0	0	0	0
11/12/2024 18:55	54506	ENOL_T2	0	0	0	0	0	0	0.58	0.5	1	0	-1	600	0	-600
11/12/2024 18:55	46004	BERW_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
11/12/2024 18:55	66504	SMAN_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
11/12/2024 18:55	13303	ORVI_T1	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
11/12/2024 18:55	44802	EDAN_T2	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
11/12/2024 18:55	17802	GILB_T1	0	1	1	0	0	0	0.06	0.08	0	0	0	0	0	0
11/12/2024 18:55	45501	DERR_T2	0	0	0	0	0	0	0.47	0.49	2	2	0	1800	1800	0
11/12/2024 18:55	66505	SMAN_T2	3	3	0	1.93	1.67	-0.26	0	0	0	0	0	0	0	0
11/12/2024 18:55	50502	MECH_T1	1	1	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0
11/12/2024 18:55	40303	TAMA_T3	1	1	0	0.2	0.2	0	2.29	2.28	0	0	0	0	0	0
11/12/2024 18:55	46602	LACR_T1	0	1	1	0	0	0	-1.24	-1.23	0	0	0	0	0	0
11/12/2024 18:55	22901	HARW_T1	2	2	0	0.85	0	-0.85	-1.56	-1.49	1	1	0	1200	1200	0
11/12/2024 18:55	40302	TAMA_T3	6	7	1	0.38	0.46	0.08	0	0	0	0	0	0	0	0
11/12/2024 18:56	46002	BERW_T2	0	0	0	0	0	0	-1.14	-1.18	1	1	0	900	900	0
11/12/2024 18:56	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 18:56	48901	FOSP_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
11/12/2024 18:56	45702	LIND_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
11/12/2024 18:56	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
11/12/2024 18:56	66505	SMAN_T2	3	3	0	1.93	1.67	-0.26	-0.33	-0.53	1	1	0	900	900	0
11/12/2024 18:56	45303	WBER_T2	2	1	-1	4.9	9.5	4.6	0	0	0	0	0	0	0	0
11/12/2024 18:56	67203	TEHI_T1	1	1	0	1.1	0	-1.1	2.25	2.3	2	2	0	1500	1500	0
11/12/2024 18:56	60501	NMAN_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/12/2024 18:56	20401	ASHF_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/12/2024 18:56	42903	MIDD_T2	2	2	0	1	1.05	0.05	0	0	0	0	0	0	0	0
11/12/2024 18:56	42902	MIDD_T2	0	2	2	0	4.9	4.9	-0.5	-0.46	0	0	0	0	0	0
11/12/2024 18:56	66504	SMAN_T2	0	0	0	0	0	0	-1.05	-1.09	0	0	0	0	0	0
11/12/2024 18:56	45302	WBER_T2	0	0	0	0	0	0	0.58	0.62	0	0	0	0	0	0
11/12/2024 18:56	10705	CATA_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
11/12/2024 18:56	61505	EPET_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
11/12/2024 18:56	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 18:56	43801	SWIL_T1	2	2	0	3.25	3.3	0.05	0	0	0	0	0	0	0	0
11/12/2024 18:56	46004	BERW_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
11/12/2024 18:56	45701	LIND_T2	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
11/12/2024 18:57	67002	STHI_T2	127	140	13	0.15	0.15	0	1.68	1.71	0	0	0	0	0	0
11/12/2024 18:57	64704	LITI_T1	0	0	0	0	0	0	0.25	0.14	1	1	0	600	600	0
11/12/2024 18:57	53501	EVIL_T2	1	1	0	0.3	0.3	0	-0.85	-0.82	1	1	0	600	600	0
11/12/2024 18:57	65601	QVIL_T2	0	0	0	0	0	0	-0.19	-1.25	0	1	1	0	900	900
11/12/2024 18:57	43202	MVIL_T2	0	2	2	0	0.3	0.3	-0.67	-0.68	0	0	0	0	0	0
11/12/2024 18:57	48901	FOSP_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
11/12/2024 18:57	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 18:57	60201	ATGL_T2	0	0	0	0	0	0	-0.1	-0.15	0	0	0	0	0	0
11/12/2024 18:57	63601	LETO_T1	4	6	2	0.28	0.62	0.34	2.04	2.8	0	0	0	0	0	0
11/12/2024 18:57	43302	WATS_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/12/2024 18:57	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 18:57	44302	BEAV_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
11/12/2024 18:57	67001	STHI_T2	519	588	69	0.24	0.24	0	0	0	0	0	0	0	0	0
11/12/2024 18:57	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	4	4	0	3600	3600	0
11/12/2024 18:57	23901	EFMO_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
11/12/2024 18:57	64305	LINC_T1	0	0	0	0	0	0	-0.58	-0.62	0	0	0	0	0	0
11/12/2024 18:58	48901	FOSP_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
11/12/2024 18:58	67401	WAKE_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/12/2024 18:58	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
11/12/2024 18:58	60803	BUCK_T1	6	4	-2	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
11/12/2024 18:58	64204	KINZ_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
11/12/2024 18:58	11801	FRAN_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
11/12/2024 18:58	45501	DERR_T2	0	0	0	0	0	0	0.47	0.49	2	2	0	1800	1800	0
11/12/2024 18:58	25402	LAHA_T2	0	0	0	0	0	0	-0.84	-0.86	0	0	0	0	0	0
11/12/2024 18:58	67001	STHI_T2	519	588	69	0.24	0.24	0	0.09	0.06	0	0	0	0	0	0
11/12/2024 18:58	60801	BUCK_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
11/12/2024 18:58	60902	DONG_T2	1	0	-1	0.1	0	-0.1	0.53	0.51	0	0	0	0	0	0
11/12/2024 18:58	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 18:58	64201	KINZ_T1	1	3	2	0.9	0.3	-0.6	0.44	0.44	1	1	0	300	300	0
11/12/2024 18:58	43202	MVIL_T2	0	2	2	0	0.3	0.3	-0.67	-0.68	0	0	0	0	0	0
11/12/2024 18:58	10805	CHHI_T2	1	1	0	7.2	7.1	-0.1	-1.35	-1.35	1	1	0	600	600	0
11/12/2024 18:58	58402	MORO_T1	27	30	3	1.23	0.8	-0.43	0	0	3	3	0	1950	1950	0
11/12/2024 18:58	67002	STHI_T2	127	140	13	0.15	0.15	0	0.56	0.57	0	0	0	0	0	0
11/12/2024 18:59	63501	HEID_TBK1-2	1	1	0	1.2	0.5	-0.7	0.39	0.4	0	0	0	0	0	0
11/12/2024 18:59	14802	TREI_T2	0	0	0	0	0	0	0.53	0.48	0	0	0	0	0	0
11/12/2024 18:59	43304	WATS_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
11/12/2024 18:59	45501	DERR_T2	0	0	0	0	0	0	0.93	0.99	4	4	0	3600	3600	0
11/12/2024 18:59	66505	SMAN_T2	3	3	0	1.93	1.67	-0.26	-0.33	-0.53	1	1	0	900	900	0
11/12/2024 18:59	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 18:59	59101	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 18:59	64702	LITI_T2	0	0	0	0	0	0	-0.84	-0.76	0	0	0	0	0	0
11/12/2024 18:59	40703	FFLD_T1	4	4	0	0.4	0.48	0.08	0	0	0	0	0	0	0	0
11/12/2024 18:59	43302	WATS_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/12/2024 18:59	48901	FOSP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 18:59	45502	DERR_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
11/12/2024 18:59	44801	EDAN_T2	1	0	-1	0.1	0	-0.1	-0.51	-0.45	0	0	0	0	0	0
11/12/2024 18:59	66504	SMAN_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
11/12/2024 18:59	60902	DONG_T2	1	0	-1	0.1	0	-0.1	0.53	0.51	0	0	0	0	0	0
11/12/2024 18:59	67001	STHI_T2	519	588	69	0.24	0.24	0	0	0	0	0	0	0	0	0
11/12/2024 18:59	67002	STHI_T2	127	140	13	0.15	0.15	0	1.12	1.14	0	0	0	0	0	0
11/12/2024 18:59	63601	LETO_T1	4	6	2	0.28	0.62	0.34	1.02	1.4	0	0	0	0	0	0
11/12/2024 18:59	46004	BERW_T2	1	1	0	0.6	0.2	-0.4	-0.39	-0.4	0	0	0	0	0	0
11/12/2024 18:59	40701	FFLD_T1	33	47	14	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
11/12/2024 18:59	40702	FFLD_T1	65	97	32	0.19	0.25	0.06	-0.76	-0.72	1	1	0	1200	1200	0
11/12/2024 18:59	66502	SMAN_T2	0	0	0	0	0	0	-0.06	-0.21	0	0	0	0	0	0
11/12/2024 18:59	65702	RVIL_T2	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
11/12/2024 18:59	60501	NMAN_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/12/2024 18:59	10801	CHHI_T1	0	0	0	0	0	0	-0.96	-0.88	1	1	0	900	900	0
11/12/2024 18:59	45802	HEGI_T2	46	48	2	0.99	1.79	0.8	0	0	0	0	0	0	0	0
11/12/2024 18:59	58402	MORO_T1	27	30	3	1.23	0.8	-0.43	0	0	0	0	0	0	0	0
11/12/2024 18:59	58803	COCO_T1	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
11/12/2024 18:59	44301	BEAV_T2	0	0	0	0	0	0	-0.74	-0.74	1	1	0	600	600	0
11/12/2024 18:59	67401	WAKE_T2	2	3	1	0.15	0.1	-0.05	-1.2	-1.23	0	0	0	0	0	0
11/12/2024 18:59	63804	HEMP_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
11/12/2024 18:59	60502	NMAN_T2	0	0	0	0	0	0	-0.53	-0.49	0	0	0	0	0	0
11/12/2024 18:59	63803	HEMP_T1	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
11/12/2024 19:00	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:00	10101	ALLE_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
11/12/2024 19:00	42701	AUGU_T1	1	1	0	0.1	0.3	0.2	0	0	2	2	0	1800	1800	0
11/12/2024 19:00	57201	ROSS_T1	0	0	0	0	0	0	-0.57	-0.63	0	0	0	0	0	0
11/12/2024 19:00	45501	DERR_T2	0	0	0	0	0	0	0.47	0.49	2	2	0	1800	1800	0
11/12/2024 19:00	63802	HEMP_T1	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
11/12/2024 19:00	65503	MOJO_T2	0	0	0	0	0	0	-0.38	-0.46	0	0	0	0	0	0
11/12/2024 19:00	60801	BUCK_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
11/12/2024 19:00	10105	ALLE_T3	0	6	6	0	0.28	0.28	0	0	0	0	0	0	0	0
11/12/2024 19:00	66505	SMAN_T2	3	3	0	1.63	1.77	0.14	0	0	0	0	0	0	0	0
11/12/2024 19:00	40802	MECH_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
11/12/2024 19:00	63803	HEMP_T1	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
11/12/2024 19:00	60803	BUCK_T1	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
11/12/2024 19:00	66504	SMAN_T2	0	0	0	0	0	0	-1.05	-1.09	0	0	0	0	0	0
11/12/2024 19:00	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
11/12/2024 19:00	17804	GILB_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
11/12/2024 19:00	60201	ATGL_T2	0	0	0	0	0	0	-0.1	-0.15	0	0	0	0	0	0
11/12/2024 19:00	21206	ECAR_T2	1	1	0	7.3	7.5	0.2	0.25	0.16	0	0	0	0	0	0
11/12/2024 19:00	65502	MOJO_T2	14	58	44	0.1	0.11	0.01	0	0	0	0	0	0	0	0
11/12/2024 19:00	10705	CATA_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
11/12/2024 19:01	43202	MVIL_T2	2	1	-1	0.45	0	-0.45	-0.67	-0.68	0	0	0	0	0	0
11/12/2024 19:01	67001	STHI_T2	555	569	14	0.24	0.27	0.03	0	0	0	0	0	0	0	0
11/12/2024 19:01	44502	HAMI_T2	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
11/12/2024 19:01	65205	PRIN_T1	2	2	0	4.4	1.6	-2.8	0	0	0	0	0	0	0	0
11/12/2024 19:01	66505	SMAN_T2	3	3	0	1.63	1.77	0.14	-0.33	-0.53	1	1	0	900	900	0
11/12/2024 19:01	44505	HAMI_T2	0	0	0	0	0	0	0.61	0.63	0	0	0	0	0	0
11/12/2024 19:01	20601	GRWO_T2	3	1	-2	0.53	1	0.47	0	0	0	0	0	0	0	0
11/12/2024 19:01	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
11/12/2024 19:01	65502	MOJO_T2	14	58	44	0.1	0.11	0.01	-1.05	-1.04	0	0	0	0	0	0
11/12/2024 19:01	57401	SPAN_T1	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
11/12/2024 19:01	45802	HEGI_T2	48	48	0	1.76	1.68	-0.08	0	0	0	0	0	0	0	0
11/12/2024 19:01	66502	SMAN_T2	0	0	0	0	0	0	-0.12	-0.41	0	0	0	0	0	0
11/12/2024 19:01	20603	GRWO_T2	28	36	8	0.38	0.39	0.01	0.37	0.38	0	0	0	0	0	0
11/12/2024 19:01	67002	STHI_T2	133	141	8	0.15	0.16	0.01	0.56	0.57	0	0	0	0	0	0
11/12/2024 19:01	65202	PRIN_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/12/2024 19:01	57403	SPAN_T1	1	1	0	0.1	0.2	0.1	0.05	0.06	0	0	0	0	0	0
11/12/2024 19:01	44801	EDAN_T2	0	0	0	0	0	0	-0.51	-0.45	0	0	0	0	0	0
11/12/2024 19:01	53501	EVIL_T2	1	1	0	0.3	0.4	0.1	-0.85	-0.82	1	1	0	600	600	0
11/12/2024 19:02	50502	MECH_T1	1	1	0	2.2	2.1	-0.1	0	0	0	0	0	0	0	0
11/12/2024 19:02	63803	HEMP_T1	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
11/12/2024 19:02	61701	ELIZ_T1	1	1	0	4.5	4.5	0	0	0	0	0	0	0	0	0
11/12/2024 19:02	46801	HEPB_T2	2	3	1	0.75	0.6	-0.15	0.53	0.53	0	0	0	0	0	0
11/12/2024 19:02	58003	WCAR_T1	1	1	0	0.4	0.2	-0.2	-0.19	-0.19	1	1	0	600	600	0
11/12/2024 19:02	44505	HAMI_T2	0	0	0	0	0	0	0.61	0.63	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/12/2024 19:02	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
11/12/2024 19:02	61503	EPET_T1	0	0	0	0	0	0	-1.1	-1.09	0	0	0	0	0	0
11/12/2024 19:02	66504	SMAN_T2	0	0	0	0	0	0	-1.05	-1.09	0	0	0	0	0	0
11/12/2024 19:02	42903	MIDD_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
11/12/2024 19:02	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/12/2024 19:02	44301	BEAV_T2	0	0	0	0	0	0	-0.74	-0.74	1	1	0	600	600	0
11/12/2024 19:02	54603	SUMM_T2	0	0	0	0	0	0	-0.59	-0.56	1	1	0	900	900	0
11/12/2024 19:02	50501	MECH_T1	4	4	0	0.95	0.95	0	-0.32	-0.12	0	0	0	0	0	0
11/12/2024 19:02	57203	ROSS_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
11/12/2024 19:02	43402	BENT_T1	1	0	-1	0.4	0	-0.4	-0.9	-0.93	1	1	0	900	900	0
11/12/2024 19:02	60101	COCA_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
11/12/2024 19:02	42902	MIDD_T2	0	1	1	0	0.6	0.6	-0.5	-0.46	0	0	0	0	0	0
11/12/2024 19:02	66502	SMAN_T2	0	0	0	0	0	0	-0.18	-0.62	0	0	0	0	0	0
11/12/2024 19:02	61703	ELIZ_T1	0	0	0	0	0	0	-1.89	-1.73	1	1	0	900	900	0
11/12/2024 19:02	10805	CHHI_T2	1	1	0	7.1	7.2	0.1	-1.35	-1.35	1	1	0	600	600	0
11/12/2024 19:02	66505	SMAN_T2	3	3	0	1.63	1.77	0.14	-0.33	-0.53	1	1	0	900	900	0
11/12/2024 19:02	58001	WCAR_T1	3	1	-2	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
11/12/2024 19:02	15203	SFAR_T2	0	0	0	0	0	0	-1.32	-1.34	0	0	0	0	0	0
11/12/2024 19:02	44502	HAMI_T2	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
11/12/2024 19:02	54601	SUMM_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/12/2024 19:02	10705	CATA_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
11/12/2024 19:02	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:02	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:03	63501	HEID_TBK1-2	1	1	0	0.5	0.2	-0.3	0.39	0.4	0	0	0	0	0	0
11/12/2024 19:03	53501	EVIL_T2	1	1	0	0.3	0.4	0.1	-0.85	-0.82	1	1	0	600	600	0
11/12/2024 19:03	43304	WATS_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
11/12/2024 19:03	43801	SWIL_T1	2	2	0	3.2	3.25	0.05	0	0	0	0	0	0	0	0
11/12/2024 19:03	60902	DONG_T2	0	1	1	0	0.2	0.2	0.53	0.51	0	0	0	0	0	0
11/12/2024 19:03	64303	LINC_T1	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
11/12/2024 19:03	10705	CATA_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
11/12/2024 19:03	40801	EXCH_T2	0	0	0	0	0	0	-0.52	-0.5	1	1	0	1200	1200	0
11/12/2024 19:03	45802	HEGI_T2	48	48	0	1.76	1.68	-0.08	0.35	0.43	0	0	0	0	0	0
11/12/2024 19:03	42701	AUGU_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/12/2024 19:03	43802	SWIL_T1	0	0	0	0	0	0	-0.2	-0.2	1	1	0	600	600	0
11/12/2024 19:03	55002	NEWP_T1	5	5	0	0.26	0.56	0.3	0	0	0	0	0	0	0	0
11/12/2024 19:03	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
11/12/2024 19:03	54601	SUMM_T2	1	1	0	0.1	0.3	0.2	-3.03	-3.02	2	2	0	2100	2100	0
11/12/2024 19:03	58001	WCAR_T1	3	1	-2	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
11/12/2024 19:03	54206	PENN_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
11/12/2024 19:03	41801	GOCI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/12/2024 19:03	46001	BERW_T1	0	0	0	0	0	0	0.65	0.67	0	0	0	0	0	0
11/12/2024 19:03	44301	BEAV_T2	0	0	0	0	0	0	-0.74	-0.74	1	1	0	600	600	0
11/12/2024 19:03	63802	HEMP_T1	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
11/12/2024 19:03	63801	HEMP_T1	0	0	0	0	0	0	-0.08	-0.16	0	0	0	0	0	0
11/12/2024 19:03	45702	LIND_T2	1	1	0	0.9	1	0.1	-0.59	-0.57	0	0	0	0	0	0
11/12/2024 19:03	43202	MVIL_T2	2	1	-1	0.45	0	-0.45	-0.67	-0.68	0	0	0	0	0	0
11/12/2024 19:03	58003	WCAR_T1	1	1	0	0.4	0.2	-0.2	-0.19	-0.19	1	1	0	600	600	0
11/12/2024 19:03	60101	COCA_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
11/12/2024 19:03	55001	NEWP_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
11/12/2024 19:03	40101	HUNT_T2	18	156	138	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
11/12/2024 19:03	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:04	48901	FOSP_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
11/12/2024 19:04	66505	SMAN_T2	3	3	0	1.63	1.77	0.14	0	0	0	0	0	0	0	0
11/12/2024 19:04	58003	WCAR_T1	1	1	0	0.4	0.2	-0.2	-0.19	-0.19	1	1	0	600	600	0
11/12/2024 19:04	57106	SPHI_T2	3	3	0	1.17	1.13	-0.04	0	0	0	0	0	0	0	0
11/12/2024 19:04	23901	EFMO_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
11/12/2024 19:04	45501	DERR_T2	0	0	0	0	0	0	0.47	0.49	2	2	0	1800	1800	0
11/12/2024 19:04	63501	HEID_TBK1-2	1	1	0	0.5	0.2	-0.3	0.39	0.4	0	0	0	0	0	0
11/12/2024 19:04	67401	WAKE_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/12/2024 19:04	40302	TAMA_T3	7	7	0	0.31	0.6	0.29	0	0	0	0	0	0	0	0
11/12/2024 19:04	58001	WCAR_T1	3	1	-2	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
11/12/2024 19:04	46801	HEPB_T2	2	3	1	0.75	0.6	-0.15	0.53	0.53	0	0	0	0	0	0
11/12/2024 19:04	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/12/2024 19:04	64704	LITI_T1	0	0	0	0	0	0	0.25	0.14	1	1	0	600	600	0
11/12/2024 19:04	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
11/12/2024 19:04	55002	NEWP_T1	5	5	0	0.26	0.56	0.3	-0.24	-0.26	0	0	0	0	0	0
11/12/2024 19:04	67002	STHI_T2	133	141	8	0.15	0.16	0.01	0.56	0.57	0	0	0	0	0	0
11/12/2024 19:04	61502	EPET_T1	0	0	0	0	0	0	-0.81	-0.89	0	0	0	0	0	0
11/12/2024 19:04	67001	STHI_T2	555	569	14	0.24	0.27	0.03	0.18	0.12	0	0	0	0	0	0
11/12/2024 19:04	57201	ROSS_T1	0	0	0	0	0	0	-0.57	-0.63	0	0	0	0	0	0
11/12/2024 19:04	40301	TAMA_T3	1	1	0	0	0	0	1.84	1.85	1	1	0	1200	1200	0
11/12/2024 19:04	43202	MVIL_T2	2	1	-1	0.45	0	-0.45	-0.67	-0.68	0	0	0	0	0	0
11/12/2024 19:04	44802	EDAN_T2	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
11/12/2024 19:04	57101	SPHI_T2	6	6	0	1.02	0.7	-0.32	0	0	0	0	0	0	0	0
11/12/2024 19:04	65802	RTWN_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
11/12/2024 19:04	66502	SMAN_T2	0	0	0	0	0	0	-0.06	-0.21	0	0	0	0	0	0
11/12/2024 19:04	61803	EELI_T2	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
11/12/2024 19:04	57104	SPHI_T2	1	2	1	2.7	3.6	0.9	-0.18	-0.2	0	0	0	0	0	0
11/12/2024 19:04	40303	TAMA_T3	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/12/2024 19:04	52502	PROG_T2	0	0	0	0	0	0	-0.63	-0.63	1	1	0	900	900	0
11/12/2024 19:05	44802	EDAN_T2	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
11/12/2024 19:05	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:05	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:05	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:05	64203	KINZ_T1	0	0	0	0	0	0	-1.01	-1	2	2	0	1200	1200	0
11/12/2024 19:05	63501	HEID_TBK1-2	1	1	0	0.5	0.2	-0.3	0.39	0.4	0	0	0	0	0	0
11/12/2024 19:05	45502	DERR_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
11/12/2024 19:05	64204	KINZ_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
11/12/2024 19:05	64303	LINC_T1	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
11/12/2024 19:05	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/12/2024 19:05	40901	JESH_T1	1	0	-1	1	0.3	-0.7	0	0	0	0	0	0	0	0
11/12/2024 19:05	60902	DONG_T2	0	1	1	0	0.2	0.2	0.53	0.51	0	0	0	0	0	0
11/12/2024 19:05	45802	HEGI_T2	48	48	0	1.76	1.68	-0.08	0.35	0.43	0	0	0	0	0	0
11/12/2024 19:05	64201	KINZ_T1	3	1	-2	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/12/2024 19:05	44502	HAMI_T2	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
11/12/2024 19:05	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:05	52402	GRPA_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
11/12/2024 19:05	46004	BERW_T2	1	2	1	0.3	0.2	-0.1	-0.39	-0.4	0	0	0	0	0	0
11/12/2024 19:05	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
11/12/2024 19:05	52401	GRPA_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
11/12/2024 19:06	63501	HEID_TBK1-2	1	1	0	0.5	0.2	-0.3	0.4	0.42	0	0	0	0	0	0
11/12/2024 19:06	66502	SMAN_T2	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
11/12/2024 19:06	43202	MVIL_T2	2	1	-1	0.45	0	-0.45	-0.67	-0.68	0	0	0	0	0	0
11/12/2024 19:06	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0.74	0.75	0	0	0	0	0	0
11/12/2024 19:06	55002	NEWP_T1	5	5	0	0.26	0.56	0.3	-0.26	-0.27	0	0	0	0	0	0
11/12/2024 19:06	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:06	66504	SMAN_T2	0	0	0	0	0	0	-1.09	-1.2	0	0	0	0	0	0
11/12/2024 19:06	58202	NEWV_T1	0	0	0	0	0	0	-0.42	-0.52	0	0	0	0	0	0
11/12/2024 19:06	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:06	59101	WALK_T2	0	0	0	0	0	0	0.51	0.68	1	1	0	600	600	0
11/12/2024 19:06	50623	CCTY_T2	5	5	0	6.06	5.9	-0.16	0	0	0	0	0	0	0	0
11/12/2024 19:06	50625	CCTY_T2	4	4	0	3.1	3.15	0.05	0	0	0	0	0	0	0	0
11/12/2024 19:06	66505	SMAN_T2	3	3	0	1.63	1.77	0.14	0	0	0	0	0	0	0	0
11/12/2024 19:06	64702	LITI_T2	0	0	0	0	0	0	-0.76	-0.79	0	0	0	0	0	0
11/12/2024 19:06	57203	ROSS_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
11/12/2024 19:06	50624	CCTY_T2	2	2	0	6.4	6.4	0	0	0	0	0	0	0	0	0
11/12/2024 19:06	57401	SPAN_T1	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
11/12/2024 19:06	57403	SPAN_T1	1	1	0	0.1	0.2	0.1	0.06	0.05	0	0	0	0	0	0
11/12/2024 19:07	66505	SMAN_T2	3	3	0	1.63	1.77	0.14	0	0	0	0	0	0	0	0
11/12/2024 19:07	42701	AUGU_T1	1	1	0	0.1	0.3	0.2	0	0	2	2	0	1800	1800	0
11/12/2024 19:07	57205	ROSS_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
11/12/2024 19:07	58402	MORO_T1	22	35	13	1.21	0.54	-0.67	0	0	3	3	0	1950	1950	0
11/12/2024 19:07	23001	SAJO_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
11/12/2024 19:07	66502	MOJO_T2	14	58	44	0.1	0.11	0.01	0	0	0	0	0	0	0	0
11/12/2024 19:07	26603	BROO_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
11/12/2024 19:07	66502	SMAN_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
11/12/2024 19:07	54206	PENN_T2	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
11/12/2024 19:07	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:07	67002	STHI_T2	133	141	8	0.15	0.16	0.01	0.57	0.58	0	0	0	0	0	0
11/12/2024 19:07	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.6	0	0	0	0	0	0
11/12/2024 19:07	26601	BROO_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
11/12/2024 19:07	65503	MOJO_T2	0	0	0	0	0	0	-0.46	-0.41	0	0	0	0	0	0
11/12/2024 19:07	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:07	67401	WAKE_T2	3	0	-3	0.1	0	-0.1	-1.23	-1.23	0	0	0	0	0	0
11/12/2024 19:07	66503	SMAN_T2	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
11/12/2024 19:07	58803	COCO_T1	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
11/12/2024 19:07	44802	EDAN_T2	0	0	0	0	0	0	-0.97	-0.96	0	0	0	0	0	0
11/12/2024 19:07	58401	MORO_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/12/2024 19:07	60201	ATGL_T2	0	0	0	0	0	0	-0.15	-0.11	0	0	0	0	0	0
11/12/2024 19:07	53501	EVIL_T2	1	1	0	0.3	0.4	0.1	-0.82	-0.82	1	1	0	600	600	0
11/12/2024 19:07	67001	STHI_T2	555	569	14	0.24	0.27	0.03	0	0	0	0	0	0	0	0
11/12/2024 19:07	59101	WALK_T2	0	0	0	0	0	0	0.51	0.68	1	1	0	600	600	0
11/12/2024 19:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:08	54603	SUMM_T2	0	0	0	0	0	0	-0.56	-0.56	1	1	0	900	900	0
11/12/2024 19:08	43304	WATS_T2	0	0	0	0	0	0	-0.68	-0.84	0	0	0	0	0	0
11/12/2024 19:08	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:08	42902	MIDD_T2	0	1	1	0	0.6	0.6	-0.46	-0.47	0	0	0	0	0	0
11/12/2024 19:08	66505	SMAN_T2	3	3	0	1.63	1.77	0.14	0	0	0	0	0	0	0	0
11/12/2024 19:08	65603	QVIL_T2	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
11/12/2024 19:08	45702	LIND_T2	1	1	0	0.9	1	0.1	-0.57	-0.6	0	0	0	0	0	0
11/12/2024 19:08	42903	MIDD_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
11/12/2024 19:08	55001	NEWP_T1	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
11/12/2024 19:08	40902	JESH_T1	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
11/12/2024 19:08	49803	UNIV_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
11/12/2024 19:08	52402	GRPA_T2	0	3	3	0	0.27	0.27	-0.98	-0.96	0	0	0	0	0	0
11/12/2024 19:08	40901	JESH_T1	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
11/12/2024 19:08	58402	MORO_T1	22	35	13	1.21	0.54	-0.67	0	0	0	0	0	0	0	0
11/12/2024 19:08	58401	MORO_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/12/2024 19:08	55002	NEWP_T1	5	5	0	0.26	0.56	0.3	0	0	0	0	0	0	0	0
11/12/2024 19:08	54601	SUMM_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/12/2024 19:08	49804	UNIV_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
11/12/2024 19:09	58402	MORO_T1	22	35	13	1.21	0.54	-0.67	0	0	0	0	0	0	0	0
11/12/2024 19:09	52403	GRPA_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/12/2024 19:09	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:09	52402	GRPA_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
11/12/2024 19:09	59302	MCAL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/12/2024 19:09	59301	MCAL_T1	2	2	0	1.3	1.5	0.2	-1.97	-1.98	1	1	0	600	600	0
11/12/2024 19:09	58401	MORO_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/12/2024 19:09	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:09	53501	EVIL_T2	1	1	0	0.3	0.4	0.1	-0.82	-0.82	1	1	0	600	600	0
11/12/2024 19:09	65502	MOJO_T2	14	58	44	0.1	0.11	0.01	0	0	0	0	0	0	0	0
11/12/2024 19:10	46801	HEPB_T2	2	3	1	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
11/12/2024 19:10	67401	WAKE_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/12/2024 19:10	57403	SPAN_T1	1	1	0	0.1	0.2	0.1	0.06	0.05	0	0	0	0	0	0
11/12/2024 19:10	67805	WLAN_T1	65	0	-65	0.13	0	-0.13	-1.55	-1.53	0	0	0	0	0	0
11/12/2024 19:10	52403	GRPA_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
11/12/2024 19:10	44802	EDAN_T2	0	0	0	0	0	0	-0.97	-0.96	0	0	0	0	0	0
11/12/2024 19:10	67402	WAKE_T2	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
11/12/2024 19:10	46803	HEPB_T2	0	1	1	0	0.1	0.1	0.45	0.45	0	0	0	0	0	0
11/12/2024 19:10	53501	EVIL_T2	1	1	0	0.3	0.4	0.1	-0.82	-0.82	1	1	0	600	600	0
11/12/2024 19:10	65502	MOJO_T2	14	58	44	0.1	0.11	0.01	-1.04	-1.06	0	0	0	0	0	0
11/12/2024 19:10	57401	SPAN_T1	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
11/12/2024 19:10	67802	WLAN_T1	12	1	-11	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/12/2024 19:10	67201	TEHI_T1	0	0	0	0	0	0	0.27	0.21	1	1	0	900	900	0
11/12/2024 19:10	52402	GRPA_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
11/12/2024 19:11	58401	MORO_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
11/12/2024 19:11	57205	ROSS_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
11/12/2024 19:11	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:11	63803	HEMP_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
11/12/2024 19:11	58402	MORO_T1	22	35	13	1.21	0.54	-0.67	0	0	0	0	0	0	0	0
11/12/2024 19:11	55001	NEWP_T1	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
11/12/2024 19:11	59101	WALK_T2	0	0	0	0	0	0	0.51	0.68	1	1	0	600	600	0
11/12/2024 19:11	55002	NEWP_T1	5	5	0	0.26	0.56	0.3	0	0	0	0	0	0	0	0
11/12/2024 19:11	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
11/12/2024 19:12	50501	MECH_T1	4	4	0	0.95	0.95	0	0	0	0	0	0	0	0	0
11/12/2024 19:12	60902	DONG_T2	0	1	1	0	0.2	0.2	0.51	0.49	0	0	0	0	0	0
11/12/2024 19:12	50502	MECH_T1	1	1	0	2.2	2.1	-0.1	0	0	0	0	0	0	0	0
11/12/2024 19:12	49803	UNIV_T1	1	1	0	6.1	6	-0.1	-1.09	-1.09	0	0	0	0	0	0
11/12/2024 19:12	50506	MECH_T1	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
11/12/2024 19:13	58803	COCO_T1	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
11/12/2024 19:13	44301	BEAV_T2	0	0	0	0	0	0	-0.74	-0.78	1	1	0	600	600	0
11/12/2024 19:14	58402	MORO_T1	22	35	13	1.21	0.54	-0.67	0	0	0	0	0	0	0	0
11/12/2024 19:14	50501	MECH_T1	4	4	0	0.95	0.95	0	-0.12	0.09	0	0	0	0	0	0
11/12/2024 19:14	52402	GRPA_T2	0	3	3	0	0.27	0.27	-0.98	-0.96	0	0	0	0	0	0
11/12/2024 19:14	54206	PENN_T2	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
11/12/2024 19:14	50502	MECH_T1	1	1	0	2.2	2.1	-0.1	0	0	0	0	0	0	0	0
11/12/2024 19:14	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:15	66505	SMAN_T2	3	3	0	1.5	1.8	0.3	0	0	0	0	0	0	0	0
11/12/2024 19:15	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.6	0	0	0	0	0	0
11/12/2024 19:16	60101	COCA_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
11/12/2024 19:17	14802	TREI_T2	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
11/12/2024 19:17	10801	CHHI_T1	0	0	0	0	0	0	-0.88	-0.91	1	1	0	900	900	0
11/12/2024 19:20	66505	SMAN_T2	3	3	0	1.5	1.8	0.3	0	0	0	0	0	0	0	0
11/12/2024 19:20	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.6	0	0	0	0	0	0
11/12/2024 19:28	44702	MUNC_T2	14	58	44	0.19	0.21	0.02	0	0	0	0	0	0	0	0
11/12/2024 19:28	44703	MUNC_T2	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0	0
11/12/2024 19:28	44701	MUNC_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
11/12/2024 19:29	57203	ROSS_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
11/12/2024 19:30	63202	MGTN_T2	1	2	1	4.9	0	-4.9	-0.61	-0.51	0	0	0	0	0	0
11/12/2024 19:34	44802	EDAN_T2	0	0	0	0	0	0	-0.96	-0.99	0	0	0	0	0	0
11/12/2024 19:34	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:34	55101	WERT_T1	0	0	0	0	0	0	-1.17	-1.15	1	1	0	600	600	0
11/12/2024 19:35	57201	ROSS_T1	0	0	0	0	0	0	-0.6	-0.78	0	0	0	0	0	0
11/12/2024 19:49	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 19:51	55002	NEWP_T1	5	6	1	0.42	0.4	-0.02	0	0	0	0	0	0	0	0
11/12/2024 19:51	55001	NEWP_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
11/12/2024 20:00	65206	PRIN_T4	1	0	-1	2.7	0	-2.7	0	0	0	0	0	0	0	0
11/12/2024 20:00	65207	PRIN_T4	4	5	1	2.05	2.38	0.33	0	0	1	1	0	1200	1200	0
11/12/2024 20:10	40101	HUNT_T2	63	184	121	0.27	0.39	0.12	-0.64	-0.69	0	0	0	0	0	0
11/12/2024 20:42	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2024 20:42	60501	NMAN_T2	0	26	26	0	0.19	0.19	0	0	0	0	0	0	0	0
11/12/2024 20:56	12606	MACA_T1	0	0	0	0	0	0	-0.39	-0.4	1	1	0	900	900	0
11/13/2024 5:08	61803	EELI_T2	0	0	0	0	0	0	0	0.01	1	1	0	600	600	0
11/13/2024 7:29	45502	DERR_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 7:29	45501	DERR_T2	3	3	0	0.37	0.4	0.03	0.98	0.97	2	2	0	1800	1800	0
11/13/2024 7:33	45702	LIND_T2	1	1	0	0.5	0.7	0.2	-3.52	-3.44	0	0	0	0	0	0
11/13/2024 7:38	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 7:43	53502	EVIL_T2	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
11/13/2024 7:43	53501	EVIL_T2	0	2	2	0	0.35	0.35	-0.69	-0.75	2	2	0	1200	1200	0
11/13/2024 7:56	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 7:56	46206	DANV_T2	2	0	-2	0.3	0	-0.3	1.57	2.51	2	1	-1	2100	1200	-900
11/13/2024 7:56	46203	DANV_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/13/2024 7:57	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 7:57	46206	DANV_T2	2	0	-2	0.3	0	-0.3	1.57	2.51	2	1	-1	2100	1200	-900
11/13/2024 7:57	46203	DANV_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/13/2024 8:02	55002	NEWP_T1	4	7	3	0.68	0.9	0.22	-0.21	-0.2	0	0	0	0	0	0
11/13/2024 8:02	55001	NEWP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/13/2024 8:07	67002	STHI_T2	51	255	204	0.14	0.16	0.02	0.64	0.64	0	0	0	0	0	0
11/13/2024 8:07	67001	STHI_T2	346	619	273	0.16	0.22	0.06	0	0	0	0	0	0	0	0
11/13/2024 8:08	15203	SFAR_T2	0	1	1	0	0.2	0.2	-1.33	-1.36	0	0	0	0	0	0
11/13/2024 8:12	53501	EVIL_T2	2	2	0	0.35	0.3	-0.05	-0.47	-0.79	4	4	0	2400	2400	0
11/13/2024 8:12	53502	EVIL_T2	1	1	0	1.2	1.6	0.4	0	0	0	0	0	0	0	0
11/13/2024 8:13	45502	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/13/2024 8:13	45501	DERR_T2	1	1	0	0.7	0	-0.7	0.91	0.91	2	2	0	1800	1800	0
11/13/2024 8:15	53502	EVIL_T2	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
11/13/2024 8:15	53501	EVIL_T2	2	2	0	0.45	0.35	-0.1	-0.23	-0.4	2	2	0	1200	1200	0
11/13/2024 8:17	45702	LIND_T2	1	2	1	0.1	0.45	0.35	-1.74	-1.75	0	0	0	0	0	0
11/13/2024 8:18	45702	LIND_T2	1	2	1	0.1	0.45	0.35	-1.74	-1.75	0	0	0	0	0	0
11/13/2024 8:19	45702	LIND_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
11/13/2024 8:19	45701	LIND_T2	0	0	0	0	0	0	-1.63	-1.66	0	0	0	0	0	0
11/13/2024 8:22	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/13/2024 8:22	42902	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/13/2024 8:36	15203	SFAR_T2	1	9	8	0.2	0.27	0.07	0	0	0	0	0	0	0	0
11/13/2024 8:36	15204	SFAR_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
11/13/2024 8:37	67702	WERN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 8:37	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 8:38	67502	WEWI_T2	1	3	2	0.6	0.5	-0.1	-0.18	-0.1	0	0	0	0	0	0
11/13/2024 8:38	67503	WEWI_T2	1	1	0	6.7	7.2	0.5	0	0	0	0	0	0	0	0
11/13/2024 8:39	67503	WEWI_T2	1	1	0	6.7	7.2	0.5	0	0	0	0	0	0	0	0
11/13/2024 8:39	59102	WALK_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/13/2024 8:39	59101	WALK_T2	0	1	1	0	0.2	0.2	2.28	2.19	0	0	0	0	0	0
11/13/2024 8:39	67502	WEWI_T2	1	3	2	0.6	0.5	-0.1	-0.18	-0.1	0	0	0	0	0	0
11/13/2024 8:39	44902	SCOT_T2	0	0	0	0	0	0	-0.94	-0.99	0	0	0	0	0	0
11/13/2024 8:40	15203	SFAR_T2	1	9	8	0.2	0.27	0.07	-1.35	-1.33	0	0	0	0	0	0
11/13/2024 8:40	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 8:40	59102	WALK_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/13/2024 8:40	59101	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/13/2024 8:40	67702	WERN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 8:41	59101	WALK_T2	0	1	1	0	0.2	0.2	2.28	2.19	0	0	0	0	0	0
11/13/2024 8:41	59102	WALK_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/13/2024 8:42	64801	MONE_T2	1	1	0	0.2	0.2	0	-0.01	-0.01	0	0	0	0	0	0
11/13/2024 8:43	41801	GOCI_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
11/13/2024 8:48	54205	PENN_T1	75	0	-75	0.12	0	-0.12	0	0	0	0	0	0	0	0
11/13/2024 8:48	54201	PENN_T1	115	6	-109	0.38	0.82	0.44	0	0	0	0	0	0	0	0
11/13/2024 8:48	54203	PENN_T1	60	18	-42	0.52	0.73	0.21	0	0	0	0	0	0	0	0
11/13/2024 8:50	54205	PENN_T1	75	0	-75	0.12	0	-0.12	0	0	0	0	0	0	0	0
11/13/2024 8:50	54203	PENN_T1	60	18	-42	0.52	0.73	0.21	0	0	0	0	0	0	0	0
11/13/2024 8:50	54201	PENN_T1	115	6	-109	0.38	0.82	0.44	0	0	0	0	0	0	0	0
11/13/2024 8:52	54203	PENN_T1	60	18	-42	0.52	0.73	0.21	0.71	0.75	0	0	0	0	0	0
11/13/2024 8:52	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 8:52	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 8:52	54205	PENN_T1	75	0	-75	0.12	0	-0.12	0	0	0	0	0	0	0	0
11/13/2024 8:52	54201	PENN_T1	115	6	-109	0.38	0.82	0.44	0	0	0	0	0	0	0	0
11/13/2024 8:52	65602	QVIL_T2	2	14	12	0.3	0.19	-0.11	0	0	0	0	0	0	0	0
11/13/2024 8:53	14201	EALL_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
11/13/2024 8:59	23901	EFMO_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
11/13/2024 9:00	54502	ENOL_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
11/13/2024 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
11/13/2024 9:00	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
11/13/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
11/13/2024 9:00	10702	CATA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 9:00	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.97	-0.93	1	1	0	900	900	0
11/13/2024 9:00	54506	ENOL_T2	0	0	0	0	0	0	0.36	0.44	1	1	0	600	600	0
11/13/2024 9:00	15203	SFAR_T2	9	16	7	0.27	0.24	-0.03	-2.66	-2.68	0	0	0	0	0	0
11/13/2024 9:02	20603	GRWO_T2	2	1	-1	0.15	0.1	-0.05	0.35	0.35	0	0	0	0	0	0
11/13/2024 9:02	20601	GRWO_T2	1	1	0	3.2	2.6	-0.6	0	0	0	0	0	0	0	0
11/13/2024 9:04	55001	NEWP_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
11/13/2024 9:04	55002	NEWP_T1	7	8	1	0.84	0.75	-0.09	0	0	0	0	0	0	0	0
11/13/2024 9:05	15203	SFAR_T2	9	16	7	0.27	0.24	-0.03	-1.33	-1.34	0	0	0	0	0	0
11/13/2024 9:07	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
11/13/2024 9:07	67503	WEWI_T2	1	1	0	7.2	7.9	0.7	-0.29	-0.27	0	0	0	0	0	0
11/13/2024 9:07	55001	NEWP_T1	1	1	0	0.7	0.5	-0.2	-0.33	-0.34	0	0	0	0	0	0
11/13/2024 9:07	67502	WEWI_T2	3	3	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/13/2024 9:07	55002	NEWP_T1	7	8	1	0.84	0.75	-0.09	0	0	0	0	0	0	0	0
11/13/2024 9:07	15203	SFAR_T2	9	16	7	0.27	0.24	-0.03	-1.34	-1.35	0	0	0	0	0	0
11/13/2024 9:07	54501	ENOL_T2	0	0	0	0	0	0	-0.56	-0.54	1	1	0	600	600	0
11/13/2024 9:07	54502	ENOL_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
11/13/2024 9:08	65602	QVIL_T2	11	12	1	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
11/13/2024 9:08	65603	QVIL_T2	0	0	0	0	0	0	0.64	1.02	0	0	0	0	0	0
11/13/2024 9:08	65601	QVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/13/2024 9:09	40301	TAMA_T3	1	2	1	0	0.2	0.2	2.13	2.12	1	1	0	1200	1200	0
11/13/2024 9:09	40302	TAMA_T3	7	8	1	0.51	0.54	0.03	0	0	0	0	0	0	0	0
11/13/2024 9:09	40303	TAMA_T3	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/13/2024 9:10	58803	COCO_T1	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
11/13/2024 9:11	60803	BUCK_T1	14	16	2	0.38	0.4	0.02	0	0	0	0	0	0	0	0
11/13/2024 9:11	45501	DERR_T2	0	0	0	0	0	0	0.84	0.85	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/13/2024 9:11	10702	CATA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 9:11	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.93	-0.96	1	1	0	900	900	0
11/13/2024 9:11	60801	BUCK_T1	1	6	5	0.5	0.23	-0.27	-0.06	-0.06	0	0	0	0	0	0
11/13/2024 9:12	10702	CATA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 9:12	10705	CATA_T2	0	1	1	0	0.1	0.1	-1.86	-1.92	2	2	0	1800	1800	0
11/13/2024 9:14	44505	HAMI_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
11/13/2024 9:14	10702	CATA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 9:14	45501	DERR_T2	0	0	0	0	0	0	0.84	0.85	2	2	0	1800	1800	0
11/13/2024 9:14	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.93	-0.96	1	1	0	900	900	0
11/13/2024 9:14	46802	HEPB_T1	64	61	-3	0.2	0.19	-0.01	-1.17	-1.22	0	0	0	0	0	0
11/13/2024 9:14	44502	HAMI_T2	1	1	0	2.5	2.9	0.4	0	0	0	0	0	0	0	0
11/13/2024 9:16	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 9:16	63501	HEID_TBK1-2	0	2	2	0	0.2	0.2	0.08	0.1	1	1	0	900	900	0
11/13/2024 9:16	44502	HAMI_T2	1	1	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
11/13/2024 9:17	63501	HEID_TBK1-2	0	2	2	0	0.2	0.2	0.08	0.1	1	1	0	900	900	0
11/13/2024 9:17	40101	HUNT_T2	1	2	1	0.2	0	-0.2	-1.05	-1.08	0	0	0	0	0	0
11/13/2024 9:17	45702	LIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/13/2024 9:17	45701	LIND_T2	0	0	0	0	0	0	-1.67	-1.65	0	0	0	0	0	0
11/13/2024 9:17	23901	EFMO_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
11/13/2024 9:18	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 9:18	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0.81	0.83	0	0	0	0	0	0
11/13/2024 9:18	45702	LIND_T2	0	1	1	0	0.2	0.2	-0.48	-0.49	0	0	0	0	0	0
11/13/2024 9:18	63803	HEMP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 9:19	45702	LIND_T2	0	1	1	0	0.2	0.2	-0.48	-0.49	0	0	0	0	0	0
11/13/2024 9:20	57401	SPAN_T1	4	25	21	0.4	0.23	-0.17	-1.14	-1.16	1	1	0	600	600	0
11/13/2024 9:20	57403	SPAN_T1	0	20	20	0	0.2	0.2	0	0	0	0	0	0	0	0
11/13/2024 9:21	65603	QVIL_T2	0	0	0	0	0	0	0.51	0.46	0	0	0	0	0	0
11/13/2024 9:21	65601	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/13/2024 9:21	65602	QVIL_T2	11	4	-7	0.18	0.23	0.05	0	0	0	0	0	0	0	0
11/13/2024 9:21	57401	SPAN_T1	4	25	21	0.4	0.23	-0.17	-2.32	-1.61	2	2	0	1200	1200	0
11/13/2024 9:21	13303	ORVI_T1	0	0	0	0	0	0	-0.38	-0.49	0	0	0	0	0	0
11/13/2024 9:21	57403	SPAN_T1	0	20	20	0	0.2	0.2	0.07	0.08	0	0	0	0	0	0
11/13/2024 9:22	57401	SPAN_T1	4	25	21	0.4	0.23	-0.17	-1.16	-0.81	1	1	0	600	600	0
11/13/2024 9:22	55002	NEWP_T1	7	8	1	0.69	0.8	0.11	0	0	0	0	0	0	0	0
11/13/2024 9:22	55001	NEWP_T1	1	1	0	0.5	0.6	0.1	-0.34	-0.36	0	0	0	0	0	0
11/13/2024 9:22	57403	SPAN_T1	0	20	20	0	0.2	0.2	0	0	0	0	0	0	0	0
11/13/2024 9:23	65602	QVIL_T2	11	4	-7	0.18	0.23	0.05	0	0	0	0	0	0	0	0
11/13/2024 9:23	57403	SPAN_T1	0	20	20	0	0.2	0.2	0	0	0	0	0	0	0	0
11/13/2024 9:23	65601	QVIL_T2	0	1	1	0	0.2	0.2	-1.02	-1	1	1	0	900	900	0
11/13/2024 9:23	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 9:23	63501	HEID_TBK1-2	0	2	2	0	0.2	0.2	0.2	0.02	2	2	0	1800	1800	0
11/13/2024 9:23	57401	SPAN_T1	4	25	21	0.4	0.23	-0.17	-1.16	-0.81	1	1	0	600	600	0
11/13/2024 9:23	15203	SFAR_T2	12	12	0	0.23	0.31	0.08	-1.35	-1.34	0	0	0	0	0	0
11/13/2024 9:24	63501	HEID_TBK1-2	0	2	2	0	0.2	0.2	0.1	0.01	1	1	0	900	900	0
11/13/2024 9:24	14801	TREI_T2	0	1	1	0	0.5	0.5	0.43	0.46	0	0	0	0	0	0
11/13/2024 9:24	14802	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 9:25	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 9:25	42701	AUGU_T1	1	1	0	0.8	1.2	0.4	0	0	2	2	0	1800	1800	0
11/13/2024 9:26	42701	AUGU_T1	1	1	0	0.8	1.2	0.4	0	0	2	2	0	1800	1800	0
11/13/2024 9:26	15203	SFAR_T2	12	12	0	0.23	0.31	0.08	-2.7	-2.68	0	0	0	0	0	0
11/13/2024 9:26	46004	BERW_T2	0	1	1	0	0	0	-0.71	-0.78	0	0	0	0	0	0
11/13/2024 9:28	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
11/13/2024 9:28	15204	SFAR_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
11/13/2024 9:28	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	-2.13	-2.12	1	1	0	600	600	0
11/13/2024 9:28	15203	SFAR_T2	12	12	0	0.23	0.31	0.08	0	0	0	0	0	0	0	0
11/13/2024 9:29	48902	FOSP_T2	0	0	0	0	0	0	0.95	1.15	0	0	0	0	0	0
11/13/2024 9:29	46002	BERW_T2	0	0	0	0	0	0	-0.47	-0.52	1	1	0	900	900	0
11/13/2024 9:29	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 9:29	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
11/13/2024 9:29	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	-1.26	-1.28	1	1	0	600	600	0
11/13/2024 9:30	54502	ENOL_T2	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
11/13/2024 9:30	41801	COCI_T2	2	18	16	0.55	0.23	-0.32	0	0	0	0	0	0	0	0
11/13/2024 9:30	54505	ENOL_T2	1	1	0	0.7	0.6	-0.1	-1.26	-1.28	1	1	0	600	600	0
11/13/2024 9:30	52401	GRPA_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
11/13/2024 9:30	52402	GRPA_T2	6	11	5	0.28	0.32	0.04	-0.82	-0.85	0	0	0	0	0	0
11/13/2024 9:30	58803	COCO_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 9:30	52403	GRPA_T2	9	13	4	0.46	0.5	0.04	0	0	0	0	0	0	0	0
11/13/2024 9:35	10801	OHHI_T1	2	8	6	0.3	0.24	-0.06	-1.3	-1.27	2	2	0	1500	1500	0
11/13/2024 9:36	67201	TEHI_T1	0	0	0	0	0	0	1.26	1.36	1	1	0	900	900	0
11/13/2024 9:39	15204	SFAR_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
11/13/2024 9:39	15203	SFAR_T2	10	11	1	0.32	0.34	0.02	-1.34	-1.34	0	0	0	0	0	0
11/13/2024 9:39	57205	ROSS_T1	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
11/13/2024 9:40	15204	SFAR_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
11/13/2024 9:40	43801	SWIL_T1	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
11/13/2024 9:40	15203	SFAR_T2	10	11	1	0.32	0.34	0.02	-1.34	-1.34	0	0	0	0	0	0
11/13/2024 9:40	43802	SWIL_T1	0	0	0	0	0	0	-0.21	-0.22	1	1	0	600	600	0
11/13/2024 9:42	55105	WERT_T1	0	0	0	0	0	0	-0.66	-0.65	1	1	0	900	900	0
11/13/2024 9:43	44801	EDAN_T2	0	1	1	0	0	0	-0.46	-0.45	0	0	0	0	0	0
11/13/2024 9:46	44801	EDAN_T2	1	1	0	0.9	0	-0.9	-0.46	-0.45	0	0	0	0	0	0
11/13/2024 9:46	42902	MIDD_T2	3	0	-3	0.17	0	-0.17	-0.21	-0.2	0	0	0	0	0	0
11/13/2024 9:46	42903	MIDD_T2	2	2	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
11/13/2024 9:48	17802	GILB_T1	2	3	1	0.5	0.93	0.43	0.15	0.15	0	0	0	0	0	0
11/13/2024 9:48	52403	GRPA_T2	13	13	0	0.5	0.5	0	-0.16	-0.13	0	0	0	0	0	0
11/13/2024 9:48	52401	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/13/2024 9:48	52402	GRPA_T2	11	12	1	0.32	0.42	0.1	0	0	0	0	0	0	0	0
11/13/2024 9:51	42902	MIDD_T2	3	0	-3	0.17	0	-0.17	-0.21	-0.2	0	0	0	0	0	0
11/13/2024 9:51	42903	MIDD_T2	2	2	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
11/13/2024 9:52	55001	NEWP_T1	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
11/13/2024 9:52	55002	NEWP_T1	8	9	1	0.79	0.76	-0.03	-0.22	-0.22	0	0	0	0	0	0
11/13/2024 9:53	44902	SCOT_T2	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
11/13/2024 9:53	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 9:54	15203	SFAR_T2	11	9	-2	0.32	0.42	0.1	0	0	0	0	0	0	0	0
11/13/2024 9:54	15204	SFAR_T2	0	2	2	0	0.3	0.3	-0.01	-0.02	0	0	0	0	0	0
11/13/2024 9:58	60201	ATGL_T2	0	0	0	0	0	0	-0.12	-0.01	0	0	0	0	0	0
11/13/2024 10:04	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 10:04	65601	QVIL_T2	1	6	5	0.2	0.23	0.03	0	0	0	0	0	0	0	0
11/13/2024 10:04	65604	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 10:04	65602	QVIL_T2	3	17	14	0.2	0.22	0.02	0	0	0	0	0	0	0	0
11/13/2024 10:14	53501	EVIL_T2	3	1	-2	0.93	0.8	-0.13	-0.33	-0.33	2	2	0	1200	1200	0
11/13/2024 10:14	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 10:15	53501	EVIL_T2	1	2	1	0.2	0.8	0.6	-0.33	-0.33	2	2	0	1200	1200	0
11/13/2024 10:15	53502	EVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/13/2024 10:16	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 10:16	64305	LINC_T1	2	16	14	0.75	0.71	-0.04	-0.18	-0.3	0	0	0	0	0	0
11/13/2024 10:16	41002	LAUR_T2	12	32	20	0.28	0.29	0.01	-0.98	-0.98	0	0	0	0	0	0
11/13/2024 10:16	53501	EVIL_T2	1	2	1	0.2	0.8	0.6	-0.66	-0.66	4	4	0	2400	2400	0
11/13/2024 10:16	53502	EVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/13/2024 10:16	41001	LAUR_T2	40	68	28	0.21	0.3	0.09	0	0	0	0	0	0	0	0
11/13/2024 10:17	53502	EVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/13/2024 10:17	44502	HAMI_T2	1	1	0	2.8	2.7	-0.1	0	0	0	0	0	0	0	0
11/13/2024 10:17	53501	EVIL_T2	1	2	1	0.2	0.8	0.6	-0.33	-0.33	2	2	0	1200	1200	0
11/13/2024 10:17	44505	HAMI_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
11/13/2024 10:18	53502	EVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/13/2024 10:18	53501	EVIL_T2	1	2	1	0.2	0.8	0.6	-0.33	-0.33	2	2	0	1200	1200	0
11/13/2024 10:20	65503	MOJO_T2	0	2	2	0	0.2	0.2	-1.05	-1.03	1	1	0	900	900	0
11/13/2024 10:22	14801	TREI_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/13/2024 10:22	14802	TREI_T2	2	2	0	0.15	0.15	0	0.36	0.36	0	0	0	0	0	0
11/13/2024 10:23	10801	OHHI_T1	8	27	19	0.3	0.33	0.03	-1.31	-1.15	2	2	0	1500	1500	0
11/13/2024 10:24	10101	ALLE_T3	2	2	0	4.25	4.85	0.6	0	0	0	0	0	0	0	0
11/13/2024 10:24	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 10:26	46002	BERW_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/13/2024 10:26	46004	BERW_T2	0	1	1	0	0	0	-0.33	-0.28	0	0	0	0	0	0
11/13/2024 10:29	46004	BERW_T2	0	1	1	0	0	0	-0.33	-0.28	0	0	0	0	0	0
11/13/2024 10:29	24902	WHHA_T1	1	2	1	0.5	0.4	-0.1	0.73	0.74	0	0	0	0	0	0
11/13/2024 10:29	46002	BERW_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/13/2024 10:29	24901	WHHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 10:30	63601	LETO_T1	9	12	3	0.41	0.73	0.32	1.13	1.08	0	0	0	0	0	0
11/13/2024 10:30	11803	FRAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/13/2024 10:30	63602	LETO_T1	2	132	130	0.1	0.27	0.17	0	0	0	0	0	0	0	0
11/13/2024 10:30	53501	EVIL_T2	1	2	1	0.8	0.9	0.1	-0.33	-0.37	2	2	0	1200	1200	0
11/13/2024 10:30	11801	FRAN_T2	1	2	1	0.6	0.4	-0.2	0.18	0.21	0	0	0	0	0	0
11/13/2024 10:31	53501	EVIL_T2	1	2	1	0.8	0.9	0.1	-0.66	-0.74	4	4	0	2400	2400	0
11/13/2024 10:31	63601	LETO_T1	9	12	3	0.41	0.73	0.32	1.13	1.08	0	0	0	0	0	0
11/13/2024 10:31	63602	LETO_T1	2	132	130	0.1	0.27	0.17	0	0	0	0	0	0	0	0
11/13/2024 10:32	24902	WHHA_T1	2	1	-1	0.45	0.2	-0.25	0.73	0.74	0	0	0	0	0	0
11/13/2024 10:32	24901	WHHA_T1	2	0	-2	1	0	-1	0	0	0	0	0	0	0	0
11/13/2024 10:32	53501	EVIL_T2	1	2	1	0.8	0.9	0.1	-0.33	-0.37	2	2	0	1200	1200	0
11/13/2024 10:33	53501	EVIL_T2	1	2	1	0.8	0.9	0.1	-0.33	-0.37	2	2	0	1200	1200	0
11/13/2024 10:34	52401	GRPA_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
11/13/2024 10:34	52402	GRPA_T2	11	9	-2	0.35	0.52	0.17	0	0	0	0	0	0	0	0
11/13/2024 10:34	52403	GRPA_T2	18	37	19	0.7	0.58	-0.12	-0.11	-0.11	0	0	0	0	0	0
11/13/2024 10:34	64101	REFR_T1	1	1	0	0.3	0.5	0.2	0.14	0.03	0	0	0	0	0	0
11/13/2024 10:35	64101	REFR_T1	1	1	0	0.3	0.5	0.2	0.14	0.03	0	0	0	0	0	0
11/13/2024 10:36	64101	REFR_T1	1	1	0	0.3	0.5	0.2	0.03	0.04	0	0	0	0	0	0
11/13/2024 10:37	64101	REFR_T1	1	1	0	0.3	0.5	0.2	0.09	0.13	0	0	0	0	0	0
11/13/2024 10:38	64101	REFR_T1	1	1	0	0.3	0.5	0.2	0.06	0.09	0	0	0	0	0	0
11/13/2024 10:39	64101	REFR_T1	1	1	0	0.3	0.5	0.2	0.03	0.04	0	0	0	0	0	0
11/13/2024 10:41	60101	COCA_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
11/13/2024 10:41	45501	DERR_T2	0	0	0	0	0	0	0.71	0.67	2	2	0	1800	1800	0
11/13/2024 10:41	45502	DERR_T2	2	2	0	0.25	0	-0.25	0	0	0	0	0	0	0	0
11/13/2024 10:42	60803	BUCK_T1	15	17	2	0.35	0.46	0.11	-0.5	-0.51	1	1	0	600	600	0
11/13/2024 10:42	64802	MONE_T2	1	10	9	0.2	0.28	0.08	0	0	0	0	0	0	0	0
11/13/2024 10:42	60801	BUCK_T1	1	3	2	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
11/13/2024 10:42	64801	MONE_T2	1	1	0	0.3	0.8	0.5	-0.01	-0.01	0	0	0	0	0	0
11/13/2024 10:43	60803	BUCK_T1	15	17	2	0.35	0.46	0.11	-0.5	-0.51	1	1	0	600	600	0
11/13/2024 10:43	46004	BERW_T2	0	2	2	0	0.4	0.4	-0.28	-0.33	0	0	0	0	0	0
11/13/2024 10:43	46002	BERW_T2	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
11/13/2024 10:43	15001	BLMO_T1	4	9	5	0.33	0.33	0	0	0	0	0	0	0	0	0
11/13/2024 10:43	60801	BUCK_T1	1	3	2	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
11/13/2024 10:43	60101	COCA_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
11/13/2024 10:44	60803	BUCK_T1	15	17	2	0.35	0.46	0.11	-0.5	-0.51	1	1	0	600	600	0
11/13/2024 10:44	60801	BUCK_T1	1	3	2	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
11/13/2024 10:44	15001	BLMO_T1	4	9	5	0.33	0.33	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/13/2024 10:44	45501	DERR_T2	0	0	0	0	0	0	0.71	0.67	2	2	0	1800	1800	0
11/13/2024 10:44	45502	DERR_T2	2	2	0	0.25	0	-0.25	0.45	0.48	0	0	0	0	0	0
11/13/2024 10:45	60801	BUCK_T1	3	3	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
11/13/2024 10:45	60803	BUCK_T1	17	16	-1	0.45	0.41	-0.04	-0.5	-0.51	1	1	0	600	600	0
11/13/2024 10:46	60803	BUCK_T1	17	16	-1	0.45	0.41	-0.04	-0.5	-0.51	1	1	0	600	600	0
11/13/2024 10:46	60801	BUCK_T1	3	3	0	0.4	0.43	0.03	0	0	0	0	0	0	0	0
11/13/2024 10:47	41301	FISH_T1	3	3	0	1.73	2.13	0.4	0.38	0.38	0	0	0	0	0	0
11/13/2024 10:47	41305	FISH_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
11/13/2024 10:47	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
11/13/2024 10:47	64305	LINC_T1	16	8	-8	0.71	0.44	-0.27	0	0	0	0	0	0	0	0
11/13/2024 10:48	51202	MTON_T2	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
11/13/2024 10:49	60101	COCA_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
11/13/2024 10:51	60504	NMAN_T2	2	2	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
11/13/2024 10:51	60501	NMAN_T2	20	3	-17	0.19	0.33	0.14	0	0	0	0	0	0	0	0
11/13/2024 10:53	60801	BUCK_T1	3	3	0	0.4	0.43	0.03	0.15	0.18	0	0	0	0	0	0
11/13/2024 10:53	60803	BUCK_T1	17	16	-1	0.45	0.41	-0.04	0	0	0	0	0	0	0	0
11/13/2024 10:53	15201	SFAR_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
11/13/2024 10:54	60502	NMAN_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
11/13/2024 10:54	60501	NMAN_T2	20	3	-17	0.19	0.33	0.14	0	0	0	0	0	0	0	0
11/13/2024 10:54	60504	NMAN_T2	2	2	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
11/13/2024 10:55	67402	WAKE_T2	0	0	0	0	0	0	1.01	1.01	0	0	0	0	0	0
11/13/2024 10:55	15001	BLMO_T1	6	9	3	0.33	0.33	0	0	0	0	0	0	0	0	0
11/13/2024 10:55	67401	WAKE_T2	2	4	2	0.1	0.43	0.33	0	0	0	0	0	0	0	0
11/13/2024 10:56	42701	AUGU_T1	1	1	0	1.3	1.5	0.2	0	0	2	2	0	1800	1800	0
11/13/2024 10:58	42701	AUGU_T1	1	1	0	1.3	1.5	0.2	0	0	2	2	0	1800	1800	0
11/13/2024 10:58	54505	ENOL_T2	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
11/13/2024 10:58	54502	ENOL_T2	3	1	-2	0.47	0.6	0.13	0	0	0	0	0	0	0	0
11/13/2024 10:58	54501	ENOL_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
11/13/2024 10:58	54504	ENOL_T2	0	0	0	0	0	0	-1.1	-1.1	1	1	0	600	600	0
11/13/2024 10:59	48901	FOSP_T2	0	0	0	0	0	0	-0.01	0.04	1	1	0	600	600	0
11/13/2024 10:59	15001	BLMO_T1	6	9	3	0.33	0.33	0	0	0	0	0	0	0	0	0
11/13/2024 10:59	48902	FOSP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 11:04	54202	PENN_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/13/2024 11:04	14203	EALL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 11:04	14201	EALL_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
11/13/2024 11:04	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 11:05	54203	PENN_T1	19	20	1	0.6	0.68	0.08	0	0	0	0	0	0	0	0
11/13/2024 11:05	54201	PENN_T1	3	3	0	1.4	1.53	0.13	0	0	0	0	0	0	0	0
11/13/2024 11:07	57401	SPAN_T1	9	32	23	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
11/13/2024 11:07	13303	ORVI_T1	0	3	3	0	0.13	0.13	-0.27	-0.33	0	0	0	0	0	0
11/13/2024 11:07	57403	SPAN_T1	9	34	25	0.17	0.31	0.14	0.07	0.05	0	0	0	0	0	0
11/13/2024 11:08	57401	SPAN_T1	9	32	23	0.5	0.33	-0.17	-1.15	-1.23	1	1	0	600	600	0
11/13/2024 11:08	57403	SPAN_T1	9	34	25	0.17	0.31	0.14	0	0	0	0	0	0	0	0
11/13/2024 11:09	43304	WATS_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
11/13/2024 11:09	67502	WEWI_T2	16	15	-1	0.38	0.53	0.15	0	0	0	0	0	0	0	0
11/13/2024 11:09	15204	SFAR_T2	4	4	0	0.3	0.43	0.13	0	0	0	0	0	0	0	0
11/13/2024 11:09	15203	SFAR_T2	33	57	24	0.29	0.25	-0.04	0	0	0	0	0	0	0	0
11/13/2024 11:09	43301	WATS_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/13/2024 11:09	67503	WEWI_T2	1	1	0	8.4	8.9	0.5	-0.47	-0.48	0	0	0	0	0	0
11/13/2024 11:09	43302	WATS_T2	2	3	1	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/13/2024 11:10	43302	WATS_T2	2	3	1	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/13/2024 11:10	43301	WATS_T2	1	2	1	0.2	0.15	-0.05	-0.82	-0.8	1	1	0	900	900	0
11/13/2024 11:10	57403	SPAN_T1	9	34	25	0.17	0.31	0.14	0	0	0	0	0	0	0	0
11/13/2024 11:10	43304	WATS_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
11/13/2024 11:10	57401	SPAN_T1	9	32	23	0.5	0.33	-0.17	-2.3	-2.46	2	2	0	1200	1200	0
11/13/2024 11:11	67502	WEWI_T2	16	15	-1	0.38	0.53	0.15	-0.22	-0.15	0	0	0	0	0	0
11/13/2024 11:11	67501	WEWI_T1	5	4	-1	0.54	0.8	0.26	-0.46	-0.65	0	0	0	0	0	0
11/13/2024 11:11	67503	WEWI_T2	1	1	0	8.4	8.9	0.5	-0.47	-0.48	0	0	0	0	0	0
11/13/2024 11:12	57401	SPAN_T1	9	32	23	0.5	0.33	-0.17	-1.15	-1.23	1	1	0	600	600	0
11/13/2024 11:12	57403	SPAN_T1	9	34	25	0.17	0.31	0.14	0	0	0	0	0	0	0	0
11/13/2024 11:12	67501	WEWI_T1	5	4	-1	0.54	0.8	0.26	-0.46	-0.65	0	0	0	0	0	0
11/13/2024 11:12	64801	MONE_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
11/13/2024 11:12	64802	MONE_T2	9	43	34	0.29	0.24	-0.05	-0.01	-0.01	0	0	0	0	0	0
11/13/2024 11:13	67502	WEWI_T2	16	15	-1	0.38	0.53	0.15	-0.22	-0.15	0	0	0	0	0	0
11/13/2024 11:13	64802	MONE_T2	9	43	34	0.29	0.24	-0.05	-0.01	-0.01	0	0	0	0	0	0
11/13/2024 11:13	67503	WEWI_T2	1	1	0	8.4	8.9	0.5	-0.47	-0.48	0	0	0	0	0	0
11/13/2024 11:13	64801	MONE_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
11/13/2024 11:14	64203	KINZ_T1	0	1	1	0	8.7	8.7	0	0	0	0	0	0	0	0
11/13/2024 11:14	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 11:14	67502	WEWI_T2	16	15	-1	0.38	0.53	0.15	-0.67	-0.44	0	0	0	0	0	0
11/13/2024 11:14	64202	KINZ_T1	3	2	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
11/13/2024 11:14	64802	MONE_T2	9	43	34	0.29	0.24	-0.05	-0.01	-0.01	0	0	0	0	0	0
11/13/2024 11:14	64204	KINZ_T1	3	3	0	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
11/13/2024 11:14	64801	MONE_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
11/13/2024 11:14	67503	WEWI_T2	1	1	0	8.4	8.9	0.5	0	0	0	0	0	0	0	0
11/13/2024 11:15	57104	SPHI_T2	3	4	1	2.63	1.03	-1.6	-1.22	-1.18	0	0	0	0	0	0
11/13/2024 11:15	64204	KINZ_T1	2	3	1	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
11/13/2024 11:15	64201	KINZ_T1	0	0	0	0	0	0	-0.45	-0.38	3	3	0	1500	1500	0
11/13/2024 11:15	64202	KINZ_T1	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
11/13/2024 11:15	57106	SPHI_T2	3	3	0	1.07	1.53	0.46	0	0	0	0	0	0	0	0
11/13/2024 11:17	64201	KINZ_T1	0	0	0	0	0	0	-0.45	-0.38	3	3	0	1500	1500	0
11/13/2024 11:17	64204	KINZ_T1	2	3	1	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
11/13/2024 11:17	45802	HEGI_T2	42	0	-42	1.1	0	-1.1	0	0	0	0	0	0	0	0
11/13/2024 11:17	64202	KINZ_T1	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
11/13/2024 11:19	45702	LIND_T2	2	5	3	0.5	0.7	0.2	-0.58	-0.6	0	0	0	0	0	0
11/13/2024 11:19	45701	LIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/13/2024 11:21	66504	SMAN_T2	5	7	2	0.62	0.56	-0.06	0	0	0	0	0	0	0	0
11/13/2024 11:21	66501	SMAN_T2	2	2	0	0.8	1.05	0.25	0	0	0	0	0	0	0	0
11/13/2024 11:21	66505	SMAN_T2	5	4	-1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
11/13/2024 11:21	66502	SMAN_T2	13	17	4	0.32	0.32	0	0.16	0.2	0	0	0	0	0	0
11/13/2024 11:24	23001	SAJO_T1	0	2	2	0	0	0	0.08	0.1	0	0	0	0	0	0
11/13/2024 11:24	23002	SAJO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/13/2024 11:24	26002	WDAM_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
11/13/2024 11:25	66505	SMAN_T2	5	4	-1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
11/13/2024 11:25	66501	SMAN_T2	2	2	0	0.8	1.05	0.25	0	0	0	0	0	0	0	0
11/13/2024 11:25	14802	TREI_T2	2	2	0	0.5	0.5	0	0.36	0.36	0	0	0	0	0	0
11/13/2024 11:25	14801	TREI_T2	3	4	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
11/13/2024 11:25	66502	SMAN_T2	13	17	4	0.32	0.32	0	0	0	0	0	0	0	0	0
11/13/2024 11:25	66504	SMAN_T2	5	7	2	0.62	0.56	-0.06	-0.45	-0.47	0	0	0	0	0	0
11/13/2024 11:27	21501	CEAV_T2	0	0	0	0	0	0	1.31	1.22	0	0	0	0	0	0
11/13/2024 11:27	40303	TAMA_T3	1	2	1	0.3	0.3	0	2.8	2.72	0	0	0	0	0	0
11/13/2024 11:27	61703	ELIZ_T1	0	10	10	0	0.4	0.4	0	0	0	0	0	0	0	0
11/13/2024 11:27	40301	TAMA_T3	1	2	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 11:27	40302	TAMA_T3	7	8	1	0.64	0.48	-0.16	0	0	0	0	0	0	0	0
11/13/2024 11:27	14802	TREI_T2	2	2	0	0.5	0.5	0	0.36	0.36	0	0	0	0	0	0
11/13/2024 11:27	61701	ELIZ_T1	1	2	1	5	3.7	-1.3	0.22	0.33	0	0	0	0	0	0
11/13/2024 11:27	14801	TREI_T2	3	4	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
11/13/2024 11:27	21502	CEAV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/13/2024 11:31	48902	FOSP_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/13/2024 11:31	48901	FOSP_T2	0	0	0	0	0	0	-0.01	0.04	1	1	0	600	600	0
11/13/2024 11:32	48902	FOSP_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/13/2024 11:32	64904	MILL_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
11/13/2024 11:32	64901	MILL_T1	0	19	19	0	0.19	0.19	0	0	0	0	0	0	0	0
11/13/2024 11:32	48901	FOSP_T2	0	0	0	0	0	0	-0.01	0.04	1	1	0	600	600	0
11/13/2024 11:33	48902	FOSP_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/13/2024 11:33	48901	FOSP_T2	0	0	0	0	0	0	-0.01	0.04	1	1	0	600	600	0
11/13/2024 11:34	63501	HEID_TBK1-2	6	30	24	0.4	0.27	-0.13	0.11	0.04	1	1	0	900	900	0
11/13/2024 11:35	64101	REFR_T1	0	0	0	0	0	0	0.28	0.4	0	0	0	0	0	0
11/13/2024 11:37	64101	REFR_T1	0	0	0	0	0	0	0.2	0.08	0	0	0	0	0	0
11/13/2024 11:38	64101	REFR_T1	0	0	0	0	0	0	0.3	0.12	0	0	0	0	0	0
11/13/2024 11:38	49803	UNIV_T1	2	2	0	2.65	2.65	0	-1.03	-1.08	0	0	0	0	0	0
11/13/2024 11:38	49804	UNIV_T1	3	2	-1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
11/13/2024 11:39	57201	ROSS_T1	0	3	3	0	0.2	0.2	-0.47	-0.39	0	0	0	0	0	0
11/13/2024 11:39	57205	ROSS_T1	2	3	1	0.75	0.73	-0.02	0	0	0	0	0	0	0	0
11/13/2024 11:39	64101	REFR_T1	0	0	0	0	0	0	0.1	0.04	0	0	0	0	0	0
11/13/2024 11:40	57205	ROSS_T1	2	3	1	0.75	0.73	-0.02	0	0	0	0	0	0	0	0
11/13/2024 11:40	57201	ROSS_T1	0	3	3	0	0.2	0.2	-0.47	-0.39	0	0	0	0	0	0
11/13/2024 11:43	65604	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 11:43	65602	QVIL_T2	2	31	29	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/13/2024 11:43	65601	QVIL_T2	9	42	33	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
11/13/2024 11:43	65603	QVIL_T2	0	0	0	0	0	0	0.44	0.39	0	0	0	0	0	0
11/13/2024 11:45	17803	GILB_T2	2	12	10	0.2	0.28	0.08	0	0	0	0	0	0	0	0
11/13/2024 11:45	17805	GILB_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
11/13/2024 11:45	17804	GILB_T2	2	3	1	0.45	0.43	-0.02	-0.59	-0.59	0	0	0	0	0	0
11/13/2024 11:47	67303	WYOM_T2	0	0	0	0	0	0	0.4	0.34	0	0	0	0	0	0
11/13/2024 11:51	66502	SMAN_T2	16	14	-2	0.33	0.34	0.01	0	0	0	0	0	0	0	0
11/13/2024 11:51	66504	SMAN_T2	7	7	0	0.56	0.6	0.04	-0.46	-0.52	0	0	0	0	0	0
11/13/2024 11:51	66505	SMAN_T2	2	4	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
11/13/2024 11:51	66501	SMAN_T2	2	2	0	1.05	0.75	-0.3	0	0	0	0	0	0	0	0
11/13/2024 11:52	66501	SMAN_T2	2	2	0	1.05	0.75	-0.3	0	0	0	0	0	0	0	0
11/13/2024 11:52	66505	SMAN_T2	2	4	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
11/13/2024 11:52	66502	SMAN_T2	16	14	-2	0.33	0.34	0.01	0	0	0	0	0	0	0	0
11/13/2024 11:52	65503	MOJO_T2	10	11	1	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
11/13/2024 11:52	65502	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 11:52	66504	SMAN_T2	7	7	0	0.56	0.6	0.04	-0.46	-0.52	0	0	0	0	0	0
11/13/2024 11:53	66505	SMAN_T2	2	4	2	0.2	0.43	0.23	-0.06	-0.05	1	1	0	900	900	0
11/13/2024 11:53	66504	SMAN_T2	7	7	0	0.56	0.6	0.04	0	0	0	0	0	0	0	0
11/13/2024 11:53	66502	SMAN_T2	16	14	-2	0.33	0.34	0.01	0.32	0.28	0	0	0	0	0	0
11/13/2024 11:53	66501	SMAN_T2	2	2	0	1.05	0.75	-0.3	0	0	0	0	0	0	0	0
11/13/2024 11:54	66504	SMAN_T2	7	7	0	0.56	0.6	0.04	0	0	0	0	0	0	0	0
11/13/2024 11:54	66502	SMAN_T2	16	14	-2	0.33	0.34	0.01	0.32	0.28	0	0	0	0	0	0
11/13/2024 11:54	66501	SMAN_T2	2	2	0	1.05	0.75	-0.3	0	0	0	0	0	0	0	0
11/13/2024 11:54	66505	SMAN_T2	2	4	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
11/13/2024 11:54	66503	SMAN_T2	0	0	0	0	0	0	0.33	0.28	0	0	0	0	0	0
11/13/2024 11:55	66505	SMAN_T2	2	4	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
11/13/2024 11:55	66501	SMAN_T2	2	2	0	1.05	0.75	-0.3	0	0	0	0	0	0	0	0
11/13/2024 11:55	66502	SMAN_T2	16	14	-2	0.33	0.34	0.01	0	0	0	0	0	0	0	0
11/13/2024 11:55	66504	SMAN_T2	7	7	0	0.56	0.6	0.04	-0.92	-1.04	0	0	0	0	0	0
11/13/2024 11:56	67402	WAKE_T2	0	0	0	0	0	0	1.05	1.03	0	0	0	0	0	0
11/13/2024 11:56	67401	WAKE_T2	5	8	3	0.34	0.28	-0.06	0	0	0	0	0	0	0	0
11/13/2024 11:57	66505	SMAN_T2	2	4	2	0.2	0.43	0.23	-0.06	-0.05	1	1	0	900	900	0
11/13/2024 11:57	66502	SMAN_T2	16	14	-2	0.33	0.34	0.01	0	0	0	0	0	0	0	0
11/13/2024 11:57	60901	DONG_T2	4	5	1	0.48	0.4	-0.08	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/13/2024 11:57	60902	DONG_T2	1	1	0	0.6	0.6	0	0.65	0.64	0	0	0	0	0	0
11/13/2024 11:57	66501	SMAN_T2	2	2	0	1.05	0.75	-0.3	0	0	0	0	0	0	0	0
11/13/2024 11:57	60904	DONG_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
11/13/2024 11:57	66504	SMAN_T2	7	7	0	0.56	0.6	0.04	0	0	0	0	0	0	0	0
11/13/2024 11:58	67505	WEWI_T1	0	0	0	0	0	0	-0.11	-0.11	1	1	0	900	900	0
11/13/2024 11:58	61801	EELI_T2	2	3	1	0.4	0.4	0	0	0	0	0	0	0	0	0
11/13/2024 11:58	61803	EELI_T2	0	0	0	0	0	0	0.89	0.88	0	0	0	0	0	0
11/13/2024 11:58	60102	COCA_T1	0	0	0	0	0	0	-0.01	-0.09	2	2	0	1200	1200	0
11/13/2024 11:58	67502	WEWI_T2	24	58	34	0.42	0.31	-0.11	-0.22	-1.27	0	1	1	0	900	900
11/13/2024 11:58	67503	WEWI_T2	4	5	1	2.45	1.96	-0.49	-0.48	-0.04	0	0	0	0	0	0
11/13/2024 11:58	67501	WEWI_T1	5	5	0	0.66	0.5	-0.16	0	0	0	0	0	0	0	0
11/13/2024 11:58	65702	RVIL_T2	0	4	4	0	0.15	0.15	-0.65	-0.63	0	0	0	0	0	0
11/13/2024 11:58	60101	COCA_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/13/2024 11:59	67503	WEWI_T2	4	5	1	2.45	1.96	-0.49	0	0	0	0	0	0	0	0
11/13/2024 11:59	67502	WEWI_T2	24	58	34	0.42	0.31	-0.11	-0.22	-1.27	0	1	1	0	900	900
11/13/2024 12:00	45502	DERR_T2	0	1	1	0	0	0	0.44	0.46	0	0	0	0	0	0
11/13/2024 12:00	67503	WEWI_T2	5	1	-4	1.96	8.1	6.14	0	0	0	0	0	0	0	0
11/13/2024 12:00	67502	WEWI_T2	57	22	-35	0.31	0.33	0.02	-0.22	-1.27	0	1	1	0	900	900
11/13/2024 12:00	45501	DERR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/13/2024 12:01	67503	WEWI_T2	5	1	-4	1.96	8.1	6.14	0	0	0	0	0	0	0	0
11/13/2024 12:01	67502	WEWI_T2	57	22	-35	0.31	0.33	0.02	-0.22	-1.27	0	1	1	0	900	900
11/13/2024 12:04	46803	HEPB_T2	3	2	-1	0.33	0.55	0.22	0.43	0.42	0	0	0	0	0	0
11/13/2024 12:04	46801	HEPB_T2	2	3	1	1.5	1.03	-0.47	0	0	0	0	0	0	0	0
11/13/2024 12:05	21206	ECAR_T2	1	1	0	8.1	7.7	-0.4	0.2	0.25	0	0	0	0	0	0
11/13/2024 12:05	21202	ECAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 12:05	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 12:06	57201	ROSS_T1	3	2	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/13/2024 12:06	57205	ROSS_T1	3	3	0	0.73	1.03	0.3	0	0	0	0	0	0	0	0
11/13/2024 12:06	57203	ROSS_T1	0	0	0	0	0	0	0.7	0.72	0	0	0	0	0	0
11/13/2024 12:08	64101	REFR_T1	0	2	2	0	0.3	0.3	0.1	0.12	0	0	0	0	0	0
11/13/2024 12:09	57203	ROSS_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
11/13/2024 12:09	57205	ROSS_T1	3	3	0	0.73	1.03	0.3	0	0	0	0	0	0	0	0
11/13/2024 12:09	57201	ROSS_T1	3	2	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/13/2024 12:15	41202	KENM_T2	1	1	0	1	1	0	-0.52	-0.55	0	0	0	0	0	0
11/13/2024 12:15	67503	WEWI_T2	1	1	0	8.1	7.9	-0.2	0	0	0	0	0	0	0	0
11/13/2024 12:15	67502	WEWI_T2	22	5	-17	0.33	0.56	0.23	-1.27	-0.31	1	0	-1	900	0	-900
11/13/2024 12:17	21206	ECAR_T2	1	1	0	7.7	7.7	0	0	0	0	0	0	0	0	0
11/13/2024 12:17	54505	ENOL_T2	2	2	0	0.65	1.1	0.45	0	0	0	0	0	0	0	0
11/13/2024 12:17	54502	ENOL_T2	2	1	-1	0.4	0.9	0.5	-1.45	-1.45	0	0	0	0	0	0
11/13/2024 12:17	54501	ENOL_T2	4	4	0	0.23	0.38	0.15	0	0	0	0	0	0	0	0
11/13/2024 12:17	54504	ENOL_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/13/2024 12:17	21204	ECAR_T2	1	1	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
11/13/2024 12:18	54505	ENOL_T2	2	2	0	0.65	1.1	0.45	-1.36	-1.36	1	1	0	600	600	0
11/13/2024 12:18	54504	ENOL_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/13/2024 12:18	54501	ENOL_T2	4	4	0	0.23	0.38	0.15	0	0	0	0	0	0	0	0
11/13/2024 12:18	54502	ENOL_T2	2	1	-1	0.4	0.9	0.5	0	0	0	0	0	0	0	0
11/13/2024 12:20	21901	HUMB_T1	1	3	2	0.3	0.27	-0.03	-2.3	-2.31	0	0	0	0	0	0
11/13/2024 12:20	65205	PRIN_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 12:20	44201	POIN_T1	216	215	-1	0.44	0.5	0.06	-4.35	-4.27	4	4	0	4200	4200	0
11/13/2024 12:22	67001	STHI_T2	5	12	7	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
11/13/2024 12:22	44201	POIN_T1	216	215	-1	0.44	0.5	0.06	-2.13	-2.02	2	2	0	2100	2100	0
11/13/2024 12:22	44202	POIN_T2	1	1	0	0.1	0.1	0	-0.6	-0.57	1	1	0	1200	1200	0
11/13/2024 12:22	67002	STHI_T2	12	18	6	0.3	0.31	0.01	1.86	1.86	0	0	0	0	0	0
11/13/2024 12:23	66501	SMAN_T2	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
11/13/2024 12:23	44201	POIN_T1	216	215	-1	0.44	0.5	0.06	-6.4	-6.07	6	6	0	6300	6300	0
11/13/2024 12:23	15203	SFAR_T2	0	0	0	0	0	0	-1.35	-1.36	0	0	0	0	0	0
11/13/2024 12:23	66505	SMAN_T2	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
11/13/2024 12:23	13302	ORVI_T2	2	3	1	0.45	0.53	0.08	1.42	1.37	0	0	0	0	0	0
11/13/2024 12:23	66502	SMAN_T2	6	6	0	0.25	0.28	0.03	0	0	0	0	0	0	0	0
11/13/2024 12:23	66504	SMAN_T2	4	5	1	0.58	0.64	0.06	0	0	0	0	0	0	0	0
11/13/2024 12:23	67001	STHI_T2	5	12	7	0.36	0.28	-0.08	0.08	0.07	0	0	0	0	0	0
11/13/2024 12:23	67002	STHI_T2	12	18	6	0.3	0.31	0.01	1.86	1.86	0	0	0	0	0	0
11/13/2024 12:24	67001	STHI_T2	5	12	7	0.36	0.28	-0.08	0.16	0.14	0	0	0	0	0	0
11/13/2024 12:24	67702	WERN_T2	3	0	-3	0.53	0	-0.53	0	0	0	0	0	0	0	0
11/13/2024 12:24	51906	COPA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/13/2024 12:24	15203	SFAR_T2	26	101	75	0.28	0.28	0	-1.35	-1.36	0	0	0	0	0	0
11/13/2024 12:24	51905	COPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 12:24	67002	STHI_T2	12	18	6	0.3	0.31	0.01	1.24	1.24	0	0	0	0	0	0
11/13/2024 12:24	15204	SFAR_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/13/2024 12:24	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 12:24	51904	COPA_T1	5	6	1	1.44	1.65	0.21	0	0	0	0	0	0	0	0
11/13/2024 12:25	51104	CARL_T1	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
11/13/2024 12:25	51101	CARL_T1	2	3	1	2.75	1.93	-0.82	0	0	0	0	0	0	0	0
11/13/2024 12:25	15204	SFAR_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/13/2024 12:25	51102	CARL_T1	62	101	39	0.27	0.29	0.02	0	0	0	0	0	0	0	0
11/13/2024 12:25	51108	CARL_T1	1	3	2	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
11/13/2024 12:25	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 12:25	44201	POIN_T1	216	215	-1	0.44	0.5	0.06	-2.13	-2.02	2	2	0	2100	2100	0
11/13/2024 12:25	51109	CARL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/13/2024 12:25	15203	SFAR_T2	26	101	75	0.28	0.28	0	-1.35	-1.36	0	0	0	0	0	0
11/13/2024 12:26	67002	STHI_T2	12	18	6	0.3	0.31	0.01	0.62	0.62	0	0	0	0	0	0
11/13/2024 12:26	15203	SFAR_T2	26	101	75	0.28	0.28	0	-1.35	-1.36	0	0	0	0	0	0
11/13/2024 12:26	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 12:26	67702	WERN_T2	3	0	-3	0.53	0	-0.53	0	0	0	0	0	0	0	0
11/13/2024 12:26	67001	STHI_T2	5	12	7	0.36	0.28	-0.08	0.08	0.07	0	0	0	0	0	0
11/13/2024 12:26	15204	SFAR_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/13/2024 12:27	15204	SFAR_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/13/2024 12:27	67001	STHI_T2	5	12	7	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
11/13/2024 12:27	15203	SFAR_T2	26	101	75	0.28	0.28	0	0	0	0	0	0	0	0	0
11/13/2024 12:27	67002	STHI_T2	12	18	6	0.3	0.31	0.01	1.24	1.24	0	0	0	0	0	0
11/13/2024 12:28	51904	COPA_T1	5	6	1	1.44	1.65	0.21	0	0	0	0	0	0	0	0
11/13/2024 12:28	51902	COPA_T1	0	0	0	0	0	0	-0.78	-0.74	1	1	0	1200	1200	0
11/13/2024 12:28	51906	COPA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/13/2024 12:29	51104	CARL_T1	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
11/13/2024 12:29	51101	CARL_T1	2	3	1	2.75	1.93	-0.82	0	0	0	0	0	0	0	0
11/13/2024 12:29	51109	CARL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/13/2024 12:29	51102	CARL_T1	62	101	39	0.27	0.29	0.02	0	0	0	0	0	0	0	0
11/13/2024 12:29	51108	CARL_T1	1	3	2	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
11/13/2024 12:30	40802	EXCH_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/13/2024 12:30	40801	EXCH_T2	1	0	-1	0.2	0	-0.2	-0.54	-0.57	1	1	0	1200	1200	0
11/13/2024 12:30	45502	DERR_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
11/13/2024 12:30	45501	DERR_T2	1	1	0	0.2	0.2	0	0.74	0.66	2	2	0	1800	1800	0
11/13/2024 12:31	54501	ENOL_T2	4	3	-1	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
11/13/2024 12:31	54505	ENOL_T2	2	2	0	0.95	1.1	0.15	-1.36	-1.36	1	1	0	600	600	0
11/13/2024 12:31	54502	ENOL_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
11/13/2024 12:36	49803	UNIV_T1	1	1	0	4.9	5	0.1	0	0	0	0	0	0	0	0
11/13/2024 12:36	49804	UNIV_T1	1	3	2	0.5	0.13	-0.37	0.71	0.67	0	0	0	0	0	0
11/13/2024 12:40	66501	SMAN_T2	2	2	0	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
11/13/2024 12:40	66505	SMAN_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
11/13/2024 12:40	66502	SMAN_T2	5	6	1	0.24	0.28	0.04	0.21	0.23	0	0	0	0	0	0
11/13/2024 12:40	66504	SMAN_T2	4	6	2	0.6	0.55	-0.05	-1.06	-1.27	0	0	0	0	0	0
11/13/2024 12:41	66505	SMAN_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
11/13/2024 12:41	57205	ROSS_T1	3	4	1	1.03	0.8	-0.23	0	0	0	0	0	0	0	0
11/13/2024 12:41	66501	SMAN_T2	2	2	0	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
11/13/2024 12:41	66504	SMAN_T2	4	6	2	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
11/13/2024 12:41	66502	SMAN_T2	5	6	1	0.24	0.28	0.04	0.21	0.23	0	0	0	0	0	0
11/13/2024 12:41	57201	ROSS_T1	2	4	2	0.4	0.28	-0.12	-0.44	-0.45	0	0	0	0	0	0
11/13/2024 12:42	66505	SMAN_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
11/13/2024 12:42	66504	SMAN_T2	4	6	2	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
11/13/2024 12:42	66502	SMAN_T2	5	6	1	0.24	0.28	0.04	0.42	0.46	0	0	0	0	0	0
11/13/2024 12:42	66501	SMAN_T2	2	2	0	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
11/13/2024 12:43	55508	HERS_T2	2	2	0	2.3	2.2	-0.1	-2.64	-2.64	1	1	0	1200	1200	0
11/13/2024 12:43	66505	SMAN_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
11/13/2024 12:43	55501	HERS_T1	0	52	52	0	0.15	0.15	0	0	0	0	0	0	0	0
11/13/2024 12:43	66504	SMAN_T2	4	6	2	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
11/13/2024 12:43	66501	SMAN_T2	2	2	0	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
11/13/2024 12:43	66502	SMAN_T2	5	6	1	0.24	0.28	0.04	0.21	0.23	0	0	0	0	0	0
11/13/2024 12:43	55507	HERS_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/13/2024 12:44	66502	SMAN_T2	5	6	1	0.24	0.28	0.04	0	0	0	0	0	0	0	0
11/13/2024 12:44	66505	SMAN_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
11/13/2024 12:44	55508	HERS_T2	2	2	0	2.3	2.2	-0.1	-2.64	-2.64	1	1	0	1200	1200	0
11/13/2024 12:44	66504	SMAN_T2	4	6	2	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
11/13/2024 12:44	66501	SMAN_T2	2	2	0	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
11/13/2024 12:46	54505	ENOL_T2	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0	0
11/13/2024 12:46	54501	ENOL_T2	3	4	1	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
11/13/2024 12:46	54503	ENOL_T2	0	0	0	0	0	0	-0.42	-0.45	1	1	0	600	600	0
11/13/2024 12:46	54502	ENOL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
11/13/2024 12:51	60101	COCA_T1	1	1	0	0.2	0.1	-0.1	0.2	0.21	0	0	0	0	0	0
11/13/2024 12:52	57403	SPAN_T1	37	59	22	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
11/13/2024 12:52	57401	SPAN_T1	2	2	0	1.55	1.65	0.1	0.06	0.06	0	0	0	0	0	0
11/13/2024 12:52	58001	WCAR_T1	4	3	-1	0.9	0.67	-0.23	0	0	0	0	0	0	0	0
11/13/2024 12:52	58003	WCAR_T1	1	1	0	1.3	1.1	-0.2	0.06	0	1	1	0	600	600	0
11/13/2024 12:54	14802	TREI_T2	3	2	-1	0.37	0.35	-0.02	0.62	0.6	0	0	0	0	0	0
11/13/2024 12:54	14801	TREI_T2	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/13/2024 12:54	43304	WATS_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
11/13/2024 12:57	43304	WATS_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
11/13/2024 12:59	43402	BENT_T1	0	0	0	0	0	0	-2.72	-2.76	4	4	0	3000	3000	0
11/13/2024 13:02	54504	ENOL_T2	0	1	1	0	0.1	0.1	-1.1	-1.11	1	1	0	600	600	0
11/13/2024 13:02	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/13/2024 13:02	54505	ENOL_T2	2	2	0	1.05	1.1	0.05	0	0	0	0	0	0	0	0
11/13/2024 13:02	54501	ENOL_T2	3	4	1	0.2	0.38	0.18	0	0	0	0	0	0	0	0
11/13/2024 13:05	64101	REFR_T1	1	2	1	0.4	0.3	-0.1	-0.01	0.09	0	0	0	0	0	0
11/13/2024 13:06	13701	SCHN_T2	9	10	1	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
11/13/2024 13:06	44904	SCOT_T1	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
11/13/2024 13:06	13704	SCHN_T2	3	3	0	0.2	0.2	0	-0.43	-0.41	0	0	0	0	0	0
11/13/2024 13:07	65207	PRIN_T4	2	3	1	2.3	0.7	-1.6	0	0	2	2	0	1800	1800	0
11/13/2024 13:07	65206	PRIN_T4	1	2	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
11/13/2024 13:11	66501	SMAN_T2	2	2	0	0.7	1	0.3	0	0	0	0	0	0	0	0
11/13/2024 13:11	57205	ROSS_T1	3	5	2	0.97	0.6	-0.37	0	0	0	0	0	0	0	0
11/13/2024 13:11	11303	EMMA_T1	3	3	0	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
11/13/2024 13:11	66505	SMAN_T2	3	3	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
11/13/2024 13:11	57201	ROSS_T1	2	3	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/13/2024 13:11	57203	ROSS_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/13/2024 13:11	66502	SMAN_T2	4	8	4	0.28	0.36	0.08	0	0	0	0	0	0	0	0
11/13/2024 13:11	11302	EMMA_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 13:11	66504	SMAN_T2	3	9	6	0.5	0.42	-0.08	-1.09	-1.01	0	0	0	0	0	0
11/13/2024 13:11	18001	ZION_T1	4	5	1	4.93	4.06	-0.87	0	0	0	0	0	0	0	0
11/13/2024 13:11	11301	EMMA_T1	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
11/13/2024 13:14	14706	TREX_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 13:14	14704	TREX_T1	1	1	0	4.9	5.3	0.4	0	0	0	0	0	0	0	0
11/13/2024 13:14	14705	TREX_T1	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
11/13/2024 13:15	66505	SMAN_T2	3	3	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/13/2024 13:15	66501	SMAN_T2	2	2	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
11/13/2024 13:15	54504	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 13:15	54502	ENOL_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
11/13/2024 13:15	66504	SMAN_T2	8	6	-2	0.45	0.52	0.07	-0.55	-0.5	0	0	0	0	0	0
11/13/2024 13:15	54501	ENOL_T2	4	4	0	0.28	0.38	0.1	0	0	0	0	0	0	0	0
11/13/2024 13:15	54505	ENOL_T2	2	2	0	1.1	1.05	-0.05	-1.37	-1.38	1	1	0	600	600	0
11/13/2024 13:15	66502	SMAN_T2	7	6	-1	0.39	0.42	0.03	0	0	0	0	0	0	0	0
11/13/2024 13:16	66502	SMAN_T2	7	6	-1	0.39	0.42	0.03	0	0	0	0	0	0	0	0
11/13/2024 13:16	66504	SMAN_T2	8	6	-2	0.45	0.52	0.07	0	0	0	0	0	0	0	0
11/13/2024 13:16	66501	SMAN_T2	2	2	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
11/13/2024 13:16	66505	SMAN_T2	3	3	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/13/2024 13:16	20603	GRWO_T2	5	2	-3	0.14	0.25	0.11	0.33	0.33	0	0	0	0	0	0
11/13/2024 13:17	46504	LOHA_T1	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/13/2024 13:17	11301	EMMA_T1	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
11/13/2024 13:17	11303	EMMA_T1	2	3	1	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
11/13/2024 13:17	46503	LOHA_T1	0	0	0	0	0	0	-1.26	-1.22	0	0	0	0	0	0
11/13/2024 13:17	46506	LOHA_T1	3	4	1	4.87	3.48	-1.39	0	0	0	0	0	0	0	0
11/13/2024 13:18	65503	MOJO_T2	8	7	-1	0.23	0.33	0.1	-0.94	-1.03	1	1	0	900	900	0
11/13/2024 13:18	64903	MILL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/13/2024 13:18	64902	MILL_T2	1	1	0	0.8	0.3	-0.5	-0.48	-0.44	0	0	0	0	0	0
11/13/2024 13:19	64903	MILL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/13/2024 13:19	64902	MILL_T2	1	1	0	0.8	0.3	-0.5	-0.48	-0.44	0	0	0	0	0	0
11/13/2024 13:21	65502	MOJO_T2	0	0	0	0	0	0	-0.25	-0.04	0	0	0	0	0	0
11/13/2024 13:21	65503	MOJO_T2	8	7	-1	0.23	0.33	0.1	0	0	0	0	0	0	0	0
11/13/2024 13:26	14802	TREI_T2	1	1	0	0.2	0.6	0.4	0.29	0.31	0	0	0	0	0	0
11/13/2024 13:26	14801	TREI_T2	2	4	2	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
11/13/2024 13:28	42701	AUGU_T1	3	3	0	0.5	0.63	0.13	0	0	2	2	0	1800	1800	0
11/13/2024 13:28	60301	TWVA_T2	0	0	0	0	0	0	-4.13	-4.13	4	4	0	3600	3600	0
11/13/2024 13:30	64702	LITI_T2	0	0	0	0	0	0	-0.83	-0.77	0	0	0	0	0	0
11/13/2024 13:31	66504	SMAN_T2	6	5	-1	0.52	0.38	-0.14	0	0	0	0	0	0	0	0
11/13/2024 13:31	48902	FOSP_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/13/2024 13:31	66501	SMAN_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
11/13/2024 13:31	66502	SMAN_T2	6	4	-2	0.42	0.43	0.01	0	0	0	0	0	0	0	0
11/13/2024 13:31	48901	FOSP_T2	1	1	0	0.1	0.1	0	0	-0.07	1	1	0	600	600	0
11/13/2024 13:31	66505	SMAN_T2	3	2	-1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
11/13/2024 13:32	46803	HEPB_T2	1	0	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
11/13/2024 13:32	64702	LITI_T2	0	0	0	0	0	0	-0.83	-0.77	0	0	0	0	0	0
11/13/2024 13:32	46801	HEPB_T2	2	2	0	1.35	1.4	0.05	0.51	0.54	0	0	0	0	0	0
11/13/2024 13:34	48902	FOSP_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/13/2024 13:34	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 13:34	48901	FOSP_T2	1	1	0	0.1	0.1	0	0	-0.07	1	1	0	600	600	0
11/13/2024 13:36	58402	MORO_T1	0	0	0	0	0	0	0	0	2	2	0	1500	1500	0
11/13/2024 13:37	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 13:44	41301	FISH_T1	3	3	0	1.33	1.5	0.17	0.37	0.37	0	0	0	0	0	0
11/13/2024 13:45	17802	GILB_T1	5	3	-2	0.78	0.73	-0.05	0.06	0.06	0	0	0	0	0	0
11/13/2024 13:47	41301	FISH_T1	3	3	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
11/13/2024 13:49	40101	HUNT_T2	0	2	2	0	0	0	-0.9	-0.88	1	1	0	300	300	0
11/13/2024 13:57	61703	ELIZ_T1	1	2	1	0.5	0.3	-0.2	-1.97	-1.92	1	1	0	900	900	0
11/13/2024 13:57	61701	ELIZ_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
11/13/2024 13:58	66501	SMAN_T2	2	2	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
11/13/2024 13:58	66504	SMAN_T2	5	2	-3	0.38	0.5	0.12	0	0	0	0	0	0	0	0
11/13/2024 13:58	66502	SMAN_T2	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/13/2024 13:58	66505	SMAN_T2	2	3	1	0.3	0.53	0.23	0	0	0	0	0	0	0	0
11/13/2024 13:59	61703	ELIZ_T1	1	2	1	0.5	0.3	-0.2	-1.97	-1.92	1	1	0	900	900	0
11/13/2024 13:59	61701	ELIZ_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
11/13/2024 13:59	13303	ORVI_T1	0	0	0	0	0	0	-0.32	-0.36	0	0	0	0	0	0
11/13/2024 14:01	61703	ELIZ_T1	2	1	-1	0.3	0.1	-0.2	-3.94	-3.85	2	2	0	1800	1800	0
11/13/2024 14:01	61701	ELIZ_T1	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
11/13/2024 14:02	61701	ELIZ_T1	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
11/13/2024 14:02	61703	ELIZ_T1	2	1	-1	0.3	0.1	-0.2	-1.97	-1.92	1	1	0	900	900	0
11/13/2024 14:03	46803	HEPB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/13/2024 14:03	46801	HEPB_T2	2	2	0	1.4	1.3	-0.1	0.53	0.5	0	0	0	0	0	0
11/13/2024 14:04	54501	ENOL_T2	4	4	0	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
11/13/2024 14:04	54505	ENOL_T2	2	2	0	0.85	0.65	-0.2	-1.38	-1.41	1	1	0	600	600	0
11/13/2024 14:04	54502	ENOL_T2	2	1	-1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
11/13/2024 14:06	60502	NMAN_T2	2	1	-1	0.15	0.1	-0.05	-0.39	-0.47	0	0	0	0	0	0
11/13/2024 14:06	60504	NMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/13/2024 14:06	60501	NMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/13/2024 14:09	60501	NMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/13/2024 14:09	60502	NMAN_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/13/2024 14:09	60504	NMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/13/2024 14:11	55501	HERS_T1	47	16	-31	0.1	0.1	0	0	0	0	0	0	0	0	0
11/13/2024 14:11	55503	HERS_T1	0	0	0	0	0	0	-1.73	-1.73	1	1	0	1200	1200	0
11/13/2024 14:12	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 14:12	10101	ALLE_T3	2	2	0	7.8	6.85	-0.95	0	0	0	0	0	0	0	0
11/13/2024 14:14	17802	GILB_T1	3	2	-1	0.73	0.8	0.07	0.05	0.06	0	0	0	0	0	0
11/13/2024 14:17	28102	TWLA_T2	5	10	5	0.22	0.27	0.05	0.18	0.19	0	0	0	0	0	0
11/13/2024 14:22	54603	SUMM_T2	0	0	0	0	0	0	-0.55	-0.54	1	1	0	900	900	0
11/13/2024 14:22	54601	SUMM_T2	12	12	0	0.78	0.76	-0.02	0	0	0	0	0	0	0	0
11/13/2024 14:22	25402	LAHA_T2	0	0	0	0	0	0	-0.54	-0.58	0	0	0	0	0	0
11/13/2024 14:22	54602	SUMM_T2	13	16	3	0.33	0.51	0.18	0	0	0	0	0	0	0	0
11/13/2024 14:23	54602	SUMM_T2	13	16	3	0.33	0.51	0.18	0	0	0	0	0	0	0	0
11/13/2024 14:23	54601	SUMM_T2	12	12	0	0.78	0.76	-0.02	-3.06	-3.04	2	2	0	2100	2100	0
11/13/2024 14:23	54603	SUMM_T2	0	0	0	0	0	0	-0.55	-0.54	1	1	0	900	900	0
11/13/2024 14:25	51702	OBER_T1	2	2	0	2.35	2.45	0.1	0.13	0.13	1	1	0	600	600	0
11/13/2024 14:27	49804	UNIV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/13/2024 14:27	49803	UNIV_T1	1	1	0	4.9	4.7	-0.2	-1.16	-1.29	0	0	0	0	0	0
11/13/2024 14:29	15204	SFAR_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
11/13/2024 14:29	15203	SFAR_T2	75	72	-3	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
11/13/2024 14:35	60501	NMAN_T2	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
11/13/2024 14:35	60502	NMAN_T2	0	0	0	0	0	0	-0.47	-0.28	0	0	0	0	0	0
11/13/2024 14:36	60501	NMAN_T2	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
11/13/2024 14:36	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 14:37	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	-1.4	-1.41	1	1	0	600	600	0
11/13/2024 14:37	54501	ENOL_T2	3	4	1	0.17	0.3	0.13	0	0	0	0	0	0	0	0
11/13/2024 14:37	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
11/13/2024 14:38	58402	MORO_T1	0	0	0	0	0	0	0	0	2	2	0	1500	1500	0
11/13/2024 14:45	47203	FAXO_T2	0	0	0	0	0	0	-1.74	-1.77	1	1	0	1200	1200	0
11/13/2024 14:59	17804	GILB_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
11/13/2024 14:59	17805	GILB_T2	3	1	-2	0.1	0.4	0.3	-0.15	-0.14	0	0	0	0	0	0
11/13/2024 15:02	17805	GILB_T2	1	1	0	0.4	0.2	-0.2	-0.15	-0.14	0	0	0	0	0	0
11/13/2024 15:02	63501	HEID_TBK1-2	3	5	2	0.47	0.42	-0.05	0.05	0.06	1	1	0	900	900	0
11/13/2024 15:02	17804	GILB_T2	1	2	1	0.6	0.6	0	0	0	0	0	0	0	0	0
11/13/2024 15:03	17804	GILB_T2	1	2	1	0.6	0.6	0	0	0	0	0	0	0	0	0
11/13/2024 15:03	17805	GILB_T2	1	1	0	0.4	0.2	-0.2	-0.15	-0.14	0	0	0	0	0	0
11/13/2024 15:05	55002	NEWP_T1	6	5	-1	0.88	0.8	-0.08	0	0	0	0	0	0	0	0
11/13/2024 15:05	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.41	-0.39	0	0	0	0	0	0
11/13/2024 15:06	65502	MOJO_T2	0	149	149	0	0.11	0.11	-0.35	-0.62	0	0	0	0	0	0
11/13/2024 15:06	65503	MOJO_T2	1	62	61	0.1	0.12	0.02	0	0	0	0	0	0	0	0
11/13/2024 15:06	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 15:07	44203	POIN_T2	0	0	0	0	0	0	-0.89	-0.76	2	2	0	2100	2100	0
11/13/2024 15:08	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/13/2024 15:08	55002	NEWP_T1	6	5	-1	0.88	0.8	-0.08	-0.56	-0.58	0	0	0	0	0	0
11/13/2024 15:09	43801	SWIL_T1	1	2	1	5.4	2.9	-2.5	0	0	0	0	0	0	0	0
11/13/2024 15:09	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 15:15	57201	ROSS_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/13/2024 15:15	57205	ROSS_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
11/13/2024 15:20	63601	LETO_T1	3	4	1	0.17	0.5	0.33	0	0	0	0	0	0	0	0
11/13/2024 15:20	24105	EHAZ_T1	4	4	0	6.55	6.45	-0.1	0	0	0	0	0	0	0	0
11/13/2024 15:20	24104	EHAZ_T1	0	0	0	0	0	0	-0.89	-0.87	1	1	0	1200	1200	0
11/13/2024 15:20	24101	EHAZ_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
11/13/2024 15:20	63602	LETO_T1	0	0	0	0	0	0	-0.36	-0.41	0	0	0	0	0	0
11/13/2024 15:20	24102	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 15:21	63602	LETO_T1	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
11/13/2024 15:21	63601	LETO_T1	3	4	1	0.17	0.5	0.33	0	0	0	0	0	0	0	0
11/13/2024 15:25	20403	ASHF_T2	32	37	5	0.24	0.23	-0.01	-0.07	-0.06	0	0	0	0	0	0
11/13/2024 15:25	20401	ASHF_T2	3	3	0	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
11/13/2024 15:32	50501	MECH_T1	4	4	0	1.03	1.55	0.52	0	0	0	0	0	0	0	0
11/13/2024 15:32	50505	MECH_T1	0	0	0	0	0	0	-1.01	-0.99	0	0	0	0	0	0
11/13/2024 15:32	50502	MECH_T1	1	1	0	2.3	2.6	0.3	0	0	0	0	0	0	0	0
11/13/2024 15:34	14801	TREI_T2	1	1	0	0.2	0	-0.2	0.32	0.29	0	0	0	0	0	0
11/13/2024 15:36	57402	SPAN_T2	0	0	0	0	0	0	-0.58	-0.57	0	0	0	0	0	0
11/13/2024 15:43	40801	EXCH_T2	0	0	0	0	0	0	-0.53	-0.51	1	1	0	1200	1200	0
11/13/2024 15:44	59003	MIFF_T1	1	1	0	0.2	0.4	0.2	-0.4	-0.52	0	0	0	0	0	0
11/13/2024 15:44	59002	MIFF_T1	2	4	2	0.15	0.25	0.1	0	0	0	0	0	0	0	0
11/13/2024 15:47	64302	LINC_T2	0	0	0	0	0	0	1.04	1.03	0	0	0	0	0	0
11/13/2024 15:48	64201	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/13/2024 15:48	64204	KINZ_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
11/13/2024 15:48	64202	KINZ_T1	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
11/13/2024 15:51	50506	MECH_T1	0	0	0	0	0	0	-0.21	-0.39	0	0	0	0	0	0
11/13/2024 15:51	50502	MECH_T1	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
11/13/2024 15:51	50501	MECH_T1	4	4	0	1.33	1.55	0.22	0	0	0	0	0	0	0	0
11/13/2024 15:52	50502	MECH_T1	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
11/13/2024 15:52	50505	MECH_T1	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
11/13/2024 15:52	50501	MECH_T1	4	4	0	1.33	1.55	0.22	0	0	0	0	0	0	0	0
11/13/2024 15:53	50506	MECH_T1	0	0	0	0	0	0	-0.1	-0.2	0	0	0	0	0	0
11/13/2024 15:53	50501	MECH_T1	4	4	0	1.33	1.55	0.22	0	0	0	0	0	0	0	0
11/13/2024 15:53	50502	MECH_T1	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
11/13/2024 15:54	12606	MACA_T1	0	1	1	0	0	0	-0.37	-0.38	1	1	0	900	900	0
11/13/2024 15:55	11202	ELHE_T2	0	0	0	0	0	0	0.36	0.39	1	1	0	1200	1200	0
11/13/2024 15:55	49804	UNIV_T1	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
11/13/2024 15:55	49803	UNIV_T1	1	1	0	4.7	4.6	-0.1	0	0	0	0	0	0	0	0
11/13/2024 15:55	11203	ELHE_T1	0	0	0	0	0	0	0.73	0.76	0	0	0	0	0	0
11/13/2024 16:02	20601	GRWO_T2	0	0	0	0	0	0	0.12	0.17	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/13/2024 16:02	20603	GRWO_T2	29	41	12	0.32	0.37	0.05	0	0	0	0	0	0	0	0
11/13/2024 16:14	10702	CATA_T2	1	1	0	0.6	0.5	-0.1	-0.86	-0.9	0	0	0	0	0	0
11/13/2024 16:14	60301	TWVA_T2	0	0	0	0	0	0	-2.11	-2.15	2	2	0	1800	1800	0
11/13/2024 16:15	10702	CATA_T2	1	1	0	0.5	0.5	0	-0.86	-0.9	0	0	0	0	0	0
11/13/2024 16:24	15203	SFAR_T2	53	26	-27	0.14	0.14	0	0	0	0	0	0	0	0	0
11/13/2024 16:24	15204	SFAR_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
11/13/2024 18:37	48901	FOSP_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
11/13/2024 18:38	17805	GILB_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
11/13/2024 18:40	46003	BERW_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/13/2024 18:40	46002	BERW_T2	0	0	0	0	0	0	-1.2	-1.23	1	1	0	900	900	0
11/13/2024 18:40	46004	BERW_T2	2	1	-1	2.85	0	-2.85	0	0	0	0	0	0	0	0
11/13/2024 18:41	15203	SFAR_T2	0	0	0	0	0	0	-1.32	-1.28	0	0	0	0	0	0
11/13/2024 18:42	24902	WHHA_T1	11	25	14	0.82	0.83	0.01	0.74	0.78	0	0	0	0	0	0
11/13/2024 18:42	24901	WHHA_T1	2	3	1	0.85	1	0.15	0	0	0	0	0	0	0	0
11/13/2024 18:43	40302	TAMA_T3	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
11/13/2024 18:43	17802	GILB_T1	0	0	0	0	0	0	0.11	0.15	0	0	0	0	0	0
11/13/2024 18:43	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:43	40303	TAMA_T3	0	0	0	0	0	0	2.54	2.54	0	0	0	0	0	0
11/13/2024 18:44	54502	ENOL_T2	0	0	0	0	0	0	-1.99	-2.01	1	1	0	600	600	0
11/13/2024 18:44	14201	EALL_T1	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
11/13/2024 18:44	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:44	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:44	54505	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/13/2024 18:44	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:45	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:45	10205	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:45	10101	ALLE_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
11/13/2024 18:45	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:45	43402	BENT_T1	0	0	0	0	0	0	-1.59	-1.57	2	2	0	1500	1500	0
11/13/2024 18:45	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:45	43401	BENT_T1	3	6	3	0.33	0.63	0.3	0	0	0	0	0	0	0	0
11/13/2024 18:45	14802	TREI_T2	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
11/13/2024 18:45	15203	SFAR_T2	0	0	0	0	0	0	-1.32	-1.28	0	0	0	0	0	0
11/13/2024 18:45	10109	ALLE_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:45	67503	WEWI_T2	1	2	1	5.2	5.2	0	-0.29	-0.25	0	0	0	0	0	0
11/13/2024 18:45	63602	LETO_T1	0	0	0	0	0	0	-0.49	-0.47	0	0	0	0	0	0
11/13/2024 18:46	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:46	67303	WYOM_T2	0	0	0	0	0	0	0.31	0.27	0	0	0	0	0	0
11/13/2024 18:46	25402	LAHA_T2	0	0	0	0	0	0	-0.85	-0.83	0	0	0	0	0	0
11/13/2024 18:46	14802	TREI_T2	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
11/13/2024 18:47	17802	GILB_T1	0	0	0	0	0	0	0.11	0.15	0	0	0	0	0	0
11/13/2024 18:47	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:47	67001	STHI_T2	334	414	80	0.16	0.2	0.04	0	0	0	0	0	0	0	0
11/13/2024 18:47	10702	CATA_T2	0	0	0	0	0	0	-0.95	-0.93	0	0	0	0	0	0
11/13/2024 18:47	67002	STHI_T2	51	100	49	0.16	0.2	0.04	1.59	1.71	0	0	0	0	0	0
11/13/2024 18:47	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:47	63501	HEID_TBK1-2	34	38	4	0.29	0.45	0.16	-0.49	-0.51	1	1	0	900	900	0
11/13/2024 18:48	67002	STHI_T2	51	100	49	0.16	0.2	0.04	0	0	0	0	0	0	0	0
11/13/2024 18:48	10205	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:48	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:48	45501	DERR_T2	0	0	0	0	0	0	0.67	0.89	4	4	0	3600	3600	0
11/13/2024 18:48	51104	CARL_T1	1	0	-1	6	0	-6	0	0	0	0	0	0	0	0
11/13/2024 18:48	13303	ORVI_T1	0	0	0	0	0	0	-0.47	-0.52	0	0	0	0	0	0
11/13/2024 18:48	24901	WHHA_T1	2	3	1	1	1.3	0.3	0	0	0	0	0	0	0	0
11/13/2024 18:48	67503	WEWI_T2	1	2	1	5.2	5.2	0	-0.29	-0.25	0	0	0	0	0	0
11/13/2024 18:48	51101	CARL_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
11/13/2024 18:48	57401	SPAN_T1	2	2	0	0.4	0.45	0.05	-0.29	-0.28	1	1	0	600	600	0
11/13/2024 18:48	15203	SFAR_T2	0	0	0	0	0	0	-1.32	-1.28	0	0	0	0	0	0
11/13/2024 18:48	10109	ALLE_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:48	49803	UNIV_T1	1	1	0	5.5	5.4	-0.1	-1.1	-1.11	0	0	0	0	0	0
11/13/2024 18:48	48901	FOSP_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
11/13/2024 18:48	41202	KENM_T2	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
11/13/2024 18:48	14801	TREI_T2	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
11/13/2024 18:48	61701	ELIZ_T1	1	1	0	4	5.1	1.1	0.17	0.15	0	0	0	0	0	0
11/13/2024 18:48	10101	ALLE_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
11/13/2024 18:48	11301	EMMA_T1	0	0	0	0	0	0	-0.82	-0.85	0	0	0	0	0	0
11/13/2024 18:48	24902	WHHA_T1	16	26	10	0.94	0.97	0.03	0.74	0.78	0	0	0	0	0	0
11/13/2024 18:48	67502	WEWI_T2	0	0	0	0	0	0	-1.31	-1.43	1	1	0	900	900	0
11/13/2024 18:48	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:48	63501	HEID_TBK1-2	34	38	4	0.29	0.45	0.16	-0.98	-1.02	2	2	0	1800	1800	0
11/13/2024 18:48	44201	POIN_T1	200	213	13	0.52	0.5	-0.02	-2.37	-2.35	2	2	0	2100	2100	0
11/13/2024 18:48	67001	STHI_T2	334	414	80	0.16	0.2	0.04	0.1	0.09	0	0	0	0	0	0
11/13/2024 18:48	17802	GILB_T1	0	0	0	0	0	0	0.11	0.15	0	0	0	0	0	0
11/13/2024 18:48	44203	POIN_T2	0	0	0	0	0	0	-0.64	-0.58	2	2	0	2100	2100	0
11/13/2024 18:48	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:48	11203	ELHE_T1	0	0	0	0	0	0	0.79	0.77	0	0	0	0	0	0
11/13/2024 18:49	11202	ELHE_T2	0	0	0	0	0	0	0.39	0.4	1	1	0	1200	1200	0
11/13/2024 18:49	60101	COCA_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
11/13/2024 18:49	67001	STHI_T2	334	414	80	0.16	0.2	0.04	0.1	0.09	0	0	0	0	0	0
11/13/2024 18:49	67002	STHI_T2	51	100	49	0.16	0.2	0.04	0	0	0	0	0	0	0	0
11/13/2024 18:49	65503	MOJO_T2	0	1	1	0	0	0	-0.37	-0.34	0	0	0	0	0	0
11/13/2024 18:49	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:49	15203	SFAR_T2	0	0	0	0	0	0	-1.32	-1.28	0	0	0	0	0	0
11/13/2024 18:49	48901	FOSP_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
11/13/2024 18:49	43304	WATS_T2	0	0	0	0	0	0	-0.35	-0.32	0	0	0	0	0	0
11/13/2024 18:49	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:49	66505	SMAN_T2	3	3	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/13/2024 18:49	60301	TWVA_T2	0	0	0	0	0	0	-6.81	-6.85	4	4	0	3600	3600	0
11/13/2024 18:49	54201	PENN_T1	3	3	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
11/13/2024 18:49	45501	DERR_T2	0	0	0	0	0	0	0.33	0.45	2	2	0	1800	1800	0
11/13/2024 18:49	21206	ECAR_T2	1	1	0	7.8	7.9	0.1	0.22	0.18	0	0	0	0	0	0
11/13/2024 18:49	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:49	58003	WCAR_T1	0	0	0	0	0	0	-0.16	-0.16	1	1	0	600	600	0
11/13/2024 18:49	64101	REFR_T1	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
11/13/2024 18:49	43302	WATS_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/13/2024 18:49	11801	FRAN_T2	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
11/13/2024 18:49	54203	PENN_T1	18	18	0	0.51	0.66	0.15	0	0	0	0	0	0	0	0
11/13/2024 18:50	24102	EHAZ_T1	9	7	-2	0.69	0.2	-0.49	0	0	0	0	0	0	0	0
11/13/2024 18:50	66502	SMAN_T2	0	0	0	0	0	0	-0.01	-0.07	0	0	0	0	0	0
11/13/2024 18:50	14705	TREX_T1	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
11/13/2024 18:50	63601	LETO_T1	0	0	0	0	0	0	1.21	1.12	0	0	0	0	0	0
11/13/2024 18:50	53501	EVIL_T2	0	2	2	1.4	0.2	0.2	-1.42	-1.47	2	2	0	1200	1200	0
11/13/2024 18:50	67503	WEWI_T2	1	2	1	5.2	5.2	0	0	0	0	0	0	0	0	0
11/13/2024 18:50	64801	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/13/2024 18:50	45701	LIND_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
11/13/2024 18:50	67002	STHI_T2	51	100	49	0.16	0.2	0.04	1.59	1.71	0	0	0	0	0	0
11/13/2024 18:50	42701	AUGU_T1	0	1	1	0	0.1	0.1	0	0	2	2	0	1800	1800	0
11/13/2024 18:50	65601	QVIL_T2	0	0	0	0	0	0	-1.18	-1.22	1	1	0	900	900	0
11/13/2024 18:50	45702	LIND_T2	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
11/13/2024 18:50	43401	BENT_T1	3	6	3	0.33	0.63	0.3	0	0	0	0	0	0	0	0
11/13/2024 18:50	17805	GILB_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
11/13/2024 18:50	24104	EHAZ_T1	0	0	0	0	0	0	-0.92	-0.91	1	1	0	1200	1200	0
11/13/2024 18:50	63602	LETO_T1	0	0	0	0	0	0	-0.49	-0.47	0	0	0	0	0	0
11/13/2024 18:50	60101	COCA_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
11/13/2024 18:50	64302	LINC_T2	0	0	0	0	0	0	0.95	0.93	0	0	0	0	0	0
11/13/2024 18:50	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:50	14704	TREX_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
11/13/2024 18:50	60502	NMAN_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
11/13/2024 18:50	64802	MONE_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:50	20403	ASHF_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
11/13/2024 18:50	60801	BUCK_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
11/13/2024 18:50	43402	BENT_T1	0	0	0	0	0	0	-1.59	-1.57	2	2	0	1500	1500	0
11/13/2024 18:50	20401	ASHF_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
11/13/2024 18:50	66505	SMAN_T2	3	3	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/13/2024 18:50	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:50	57401	SPAN_T1	2	2	0	0.4	0.45	0.05	-0.29	-0.28	1	1	0	600	600	0
11/13/2024 18:50	20601	GRWO_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
11/13/2024 18:50	15203	SFAR_T2	0	0	0	0	0	0	-1.32	-1.28	0	0	0	0	0	0
11/13/2024 18:50	67501	WEWI_T1	0	0	0	0	0	0	-0.56	-0.61	0	0	0	0	0	0
11/13/2024 18:50	46801	HEPB_T2	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
11/13/2024 18:50	43801	SWIL_T1	2	5	3	3.15	1.38	-1.77	0	0	0	0	0	0	0	0
11/13/2024 18:50	67001	STHI_T2	334	414	80	0.16	0.2	0.04	0	0	0	0	0	0	0	0
11/13/2024 18:50	57201	ROSS_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
11/13/2024 18:50	46803	HEPB_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
11/13/2024 18:50	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:50	24105	EHAZ_T1	16	12	-4	2.8	3.24	0.44	0	0	0	0	0	0	0	0
11/13/2024 18:50	24101	EHAZ_T1	25	32	7	0.34	1.37	1.03	0	0	0	0	0	0	0	0
11/13/2024 18:50	67502	WEWI_T2	0	0	0	0	0	0	-1.31	-1.43	1	1	0	900	900	0
11/13/2024 18:51	54501	ENOL_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
11/13/2024 18:51	45501	DERR_T2	0	0	0	0	0	0	0.33	0.45	2	2	0	1800	1800	0
11/13/2024 18:51	65206	PRIN_T4	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
11/13/2024 18:51	50501	MECH_T1	4	4	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
11/13/2024 18:51	43302	WATS_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/13/2024 18:51	51902	COPA_T1	0	0	0	0	0	0	-0.78	-0.79	1	1	0	1200	1200	0
11/13/2024 18:51	66504	SMAN_T2	0	0	0	0	0	0	-0.48	-0.52	0	0	0	0	0	0
11/13/2024 18:51	67002	STHI_T2	51	100	49	0.16	0.2	0.04	0.57	0.55	0	0	0	0	0	0
11/13/2024 18:51	43304	WATS_T2	0	0	0	0	0	0	-0.35	-0.32	0	0	0	0	0	0
11/13/2024 18:51	41301	FISH_T1	1	1	0	2.1	2.5	0.4	0	0	0	0	0	0	0	0
11/13/2024 18:51	15203	SFAR_T2	0	0	0	0	0	0	-1.28	-1.29	0	0	0	0	0	0
11/13/2024 18:51	64201	KINZ_T1	0	0	0	0	0	0	-0.52	-0.56	2	2	0	1200	1200	0
11/13/2024 18:51	51904	COPA_T1	2	5	3	0.25	0.42	0.17	0	0	0	0	0	0	0	0
11/13/2024 18:51	50502	MECH_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
11/13/2024 18:51	57203	ROSS_T1	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
11/13/2024 18:51	14802	TREI_T2	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
11/13/2024 18:51	61701	ELIZ_T1	1	1	0	4	5.1	1.1	0	0	0	0	0	0	0	0
11/13/2024 18:51	57205	ROSS_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
11/13/2024 18:51	44502	HAMI_T2	1	1	0	3.5	3.6	0.1	0	0	0	0	0	0	0	0
11/13/2024 18:51	44201	POIN_T1	200	213	13	0.52	0.5	-0.02	-4.74	-4.7	4	4	0	4200	4200	0
11/13/2024 18:51	64305	LINC_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
11/13/2024 18:51	67001	STHI_T2	334	414	80	0.16	0.2	0.04	0	0	0	0	0	0	0	0
11/13/2024 18:51	41002	LAUR_T2	1	2	1	1.1	0.7	-0.4	-0.89	-0.93	0	0	0	0	0	0
11/13/2024 18:51	44505	HAMI_T2	0	0	0	0	0	0	0.5	0.54	0	0	0	0	0	0
11/13/2024 18:51	50505	MECH_T1	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/13/2024 18:51	53501	EVIL_T2	0	2	2	0	0.2	0.2	-1.47	-1.51	2	2	0	1200	1200	0
11/13/2024 18:51	55508	HERS_T2	584	577	-7	1.06	1.17	0.11	-2.64	-2.64	1	1	0	1200	1200	0
11/13/2024 18:51	61703	ELIZ_T1	0	0	0	0	0	0	-2.33	-2.52	1	2	1	900	2100	1200
11/13/2024 18:51	64204	KINZ_T1	1	2	1	0.8	1.2	0.4	0	0	0	0	0	0	0	0
11/13/2024 18:51	60301	TWVA_T2	0	0	0	0	0	0	-3.43	-3.42	2	2	0	1800	1800	0
11/13/2024 18:51	44501	HAMI_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 18:51	54505	ENOL_T2	0	1	1	0	0.2	0.2	-1.28	-1.25	1	1	0	600	600	0
11/13/2024 18:51	66505	SMAN_T2	3	3	0	0.7	0.8	0.1	-0.44	-0.44	1	1	0	900	900	0
11/13/2024 18:51	65207	PRIN_T4	3	4	1	3.07	1.8	-1.27	0	0	1	1	0	1200	1200	0
11/13/2024 18:51	41001	LAUR_T2	1	2	1	1	0.65	-0.35	0	0	0	0	0	0	0	0
11/13/2024 18:52	51104	CARL_T1	1	0	-1	6	0	-6	0	0	0	0	0	0	0	0
11/13/2024 18:52	48901	FOSP_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
11/13/2024 18:52	57203	ROSS_T1	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
11/13/2024 18:52	13302	ORVI_T2	0	0	0	0	0	0	1.19	1.18	0	0	0	0	0	0
11/13/2024 18:52	65502	MOJO_T2	0	0	0	0	0	0	-1.03	-1.08	0	0	0	0	0	0
11/13/2024 18:52	60803	BUCK_T1	0	0	0	0	0	0	-0.47	-0.51	1	1	0	600	600	0
11/13/2024 18:52	63501	HEID_TBK1-2	34	38	4	0.29	0.45	0.16	-0.51	-0.56	1	1	0	900	900	0
11/13/2024 18:52	51109	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:52	60102	COCA_T1	0	0	0	0	0	0	-0.32	-0.46	2	2	0	1200	1200	0
11/13/2024 18:52	66505	SMAN_T2	3	3	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/13/2024 18:52	44201	POIN_T1	200	213	13	0.52	0.5	-0.02	-2.35	-2.36	2	2	0	2100	2100	0
11/13/2024 18:52	51101	CARL_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
11/13/2024 18:52	10702	CATA_T2	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
11/13/2024 18:52	54505	ENOL_T2	0	1	1	0	0.2	0.2	-1.28	-1.25	1	1	0	600	600	0
11/13/2024 18:52	44801	EDAN_T2	0	0	0	0	0	0	-0.48	-0.44	0	0	0	0	0	0
11/13/2024 18:52	65503	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:52	60502	NMAN_T2	0	0	0	0	0	0	-0.58	-0.66	0	0	0	0	0	0
11/13/2024 18:52	15203	SFAR_T2	0	0	0	0	0	0	-2.56	-2.58	0	0	0	0	0	0
11/13/2024 18:52	20603	GRWO_T2	0	1	1	0	0	0	0.36	0.38	0	0	0	0	0	0
11/13/2024 18:52	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
11/13/2024 18:52	45502	DERR_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
11/13/2024 18:52	66504	SMAN_T2	0	0	0	0	0	0	-0.96	-1.04	0	0	0	0	0	0
11/13/2024 18:52	42701	AUGU_T1	0	1	1	0	0.1	0.1	0	0	2	2	0	1800	1800	0
11/13/2024 18:52	47203	FAXO_T2	1	1	0	0.1	0.1	0	-1.75	-1.74	1	1	0	1200	1200	0
11/13/2024 18:52	26002	WDAM_T1	4	25	21	1.13	0.17	-0.96	0	0	0	0	0	0	0	0
11/13/2024 18:52	46506	LOHA_T1	3	3	0	2.9	2.93	0.03	0	0	0	0	0	0	0	0
11/13/2024 18:52	65702	RVIL_T2	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
11/13/2024 18:52	10801	CHHI_T1	0	0	0	0	0	0	-2.98	-3.02	4	4	0	3000	3000	0
11/13/2024 18:52	40801	EXCH_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	1200	1200	0
11/13/2024 18:52	67001	STHI_T2	334	414	80	0.16	0.2	0.04	0	0	0	0	0	0	0	0
11/13/2024 18:52	67002	STHI_T2	51	100	49	0.16	0.2	0.04	0.57	0.55	0	0	0	0	0	0
11/13/2024 18:53	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:53	44904	SCOT_T1	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
11/13/2024 18:53	55002	NEWP_T1	0	2	2	0	0.15	0.15	-0.54	-0.48	0	0	0	0	0	0
11/13/2024 18:53	64204	KINZ_T1	1	2	1	0.8	1.2	0.4	0	0	0	0	0	0	0	0
11/13/2024 18:53	46004	BERW_T2	1	0	-1	1.1	0	-1.1	-0.41	-0.41	0	0	0	0	0	0
11/13/2024 18:53	55001	NEWP_T1	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
11/13/2024 18:53	64101	REFR_T1	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
11/13/2024 18:53	64702	LITI_T2	0	0	0	0	0	0	-0.78	-0.65	0	0	0	0	0	0
11/13/2024 18:53	66505	SMAN_T2	3	3	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/13/2024 18:53	46003	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/13/2024 18:53	48902	FOSP_T2	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
11/13/2024 18:53	64201	KINZ_T1	0	0	0	0	0	0	-0.52	-0.56	2	2	0	1200	1200	0
11/13/2024 18:53	44201	POIN_T1	200	213	13	0.52	0.5	-0.02	-2.35	-2.36	2	2	0	2100	2100	0
11/13/2024 18:53	67503	WEWI_T2	1	2	1	5.2	5.2	0	0	0	0	0	0	0	0	0
11/13/2024 18:53	42701	AUGU_T1	0	1	1	0	0.1	0.1	0	0	2	2	0	1800	1800	0
11/13/2024 18:53	67502	WEWI_T2	0	0	0	0	0	0	-1.43	-1.39	1	1	0	900	900	0
11/13/2024 18:53	17805	GILB_T2	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
11/13/2024 18:53	15203	SFAR_T2	0	0	0	0	0	0	-1.28	-1.29	0	0	0	0	0	0
11/13/2024 18:53	51702	OBER_T1	2	2	0	2.4	2.8	0.4	-1	-0.98	1	1	0	600	600	0
11/13/2024 18:53	54506	ENOL_T2	0	0	0	0	0	0	0.48	0.65	0	1	1	0	600	600
11/13/2024 18:53	66504	SMAN_T2	0	0	0	0	0	0	-0.48	-0.52	0	0	0	0	0	0
11/13/2024 18:53	54505	ENOL_T2	0	1	1	0	0.2	0.2	-1.28	-1.25	1	1	0	600	600	0
11/13/2024 18:53	57401	SPAN_T1	2	2	0	0.4	0.45	0.05	-0.28	-0.17	1	1	0	600	600	0
11/13/2024 18:54	65202	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:54	21901	HUMB_T1	0	0	0	0	0	0	-2.12	-2.16	0	0	0	0	0	0
11/13/2024 18:54	50506	MECH_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
11/13/2024 18:54	48901	FOSP_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
11/13/2024 18:54	23901	EFMO_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
11/13/2024 18:54	57201	ROSS_T1	0	0	0	0	0	0	-0.61	-0.75	0	0	0	0	0	0
11/13/2024 18:54	44801	EDAN_T2	0	0	0	0	0	0	-0.48	-0.44	0	0	0	0	0	0
11/13/2024 18:54	50501	MECH_T1	4	4	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
11/13/2024 18:54	60801	BUCK_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
11/13/2024 18:54	64902	MILL_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
11/13/2024 18:54	61703	ELIZ_T1	0	0	0	0	0	0	-2.33	-2.52	2	2	0	2100	2100	0
11/13/2024 18:54	66505	SMAN_T2	3	3	0	0.7	0.8	0.1	-0.44	-0.44	1	1	0	900	900	0
11/13/2024 18:54	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:54	20603	GRWO_T2	0	1	1	0	0	0	0.36	0.38	0	0	0	0	0	0
11/13/2024 18:54	60803	BUCK_T1	0	0	0	0	0	0	-0.47	-0.51	1	1	0	600	600	0
11/13/2024 18:54	57401	SPAN_T1	2	2	0	0.4	0.45	0.05	-0.56	-0.35	2	2	0	1200	1200	0
11/13/2024 18:54	63501	HEID_TBK1-2	34	38	4	0.29	0.45	0.16	-0.51	-0.56	1	1	0	900	900	0
11/13/2024 18:54	61701	ELIZ_T1	1	1	0	4	5.1	1.1	0	0	0	0	0	0	0	0
11/13/2024 18:54	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
11/13/2024 18:54	67503	WEWI_T2	1	2	1	5.2	5.2	0	-0.25	-0.28	0	0	0	0	0	0
11/13/2024 18:54	63601	LETO_T1	0	0	0	0	0	0	1.12	1.16	0	0	0	0	0	0
11/13/2024 18:54	50502	MECH_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
11/13/2024 18:54	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:54	67502	WEWI_T2	0	0	0	0	0	0	-1.43	-1.39	1	1	0	900	900	0
11/13/2024 18:54	65205	PRIN_T1	2	1	-1	3.15	1.2	-1.95	0	0	0	0	0	0	0	0
11/13/2024 18:54	53501	EVIL_T2	0	2	2	0	0.2	0.2	-1.47	-1.51	2	2	0	1200	1200	0
11/13/2024 18:55	18001	ZION_T1	2	2	0	8.9	9.1	0.2	0	0	0	0	0	0	0	0
11/13/2024 18:55	65503	MOJO_T2	0	1	1	0	0	0	-0.34	-0.38	0	0	0	0	0	0
11/13/2024 18:55	54602	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 18:55	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:55	46003	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/13/2024 18:55	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
11/13/2024 18:55	66504	SMAN_T2	0	0	0	0	0	0	-0.48	-0.52	0	0	0	0	0	0
11/13/2024 18:55	54601	SUMM_T2	6	11	5	0.22	0.37	0.15	0	0	0	0	0	0	0	0
11/13/2024 18:55	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
11/13/2024 18:55	50506	MECH_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
11/13/2024 18:55	45702	LIND_T2	1	1	0	0.4	1.1	0.7	-0.57	-0.58	0	0	0	0	0	0
11/13/2024 18:55	59002	MIFF_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/13/2024 18:55	54603	SUMM_T2	0	0	0	0	0	0	-1.1	-1.17	2	2	0	1800	1800	0
11/13/2024 18:55	46004	BERW_T2	1	0	-1	1.1	0	-1.1	-0.83	-0.81	0	0	0	0	0	0
11/13/2024 18:55	66505	SMAN_T2	3	3	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/13/2024 18:55	67502	WEWI_T2	0	0	0	0	0	0	-1.43	-1.39	1	1	0	900	900	0
11/13/2024 18:55	50502	MECH_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
11/13/2024 18:55	67503	WEWI_T2	1	2	1	5.2	5.2	0	-0.25	-0.28	0	0	0	0	0	0
11/13/2024 18:55	57201	ROSS_T1	0	0	0	0	0	0	-0.61	-0.75	0	0	0	0	0	0
11/13/2024 18:55	15203	SFAR_T2	0	0	0	0	0	0	-2.56	-2.58	0	0	0	0	0	0
11/13/2024 18:55	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:55	50501	MECH_T1	4	4	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
11/13/2024 18:55	59003	MIFF_T1	1	1	0	0.4	0.2	-0.2	-0.59	-0.42	0	0	0	0	0	0
11/13/2024 18:55	57401	SPAN_T1	2	2	0	0.4	0.45	0.05	-0.28	-0.17	1	1	0	600	600	0
11/13/2024 18:55	45501	DERR_T2	0	0	0	0	0	0	0.45	0.39	2	2	0	1800	1800	0
11/13/2024 18:55	64101	REFR_T1	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
11/13/2024 18:55	55002	NEWP_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/13/2024 18:55	64802	MONE_T2	0	3	3	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/13/2024 18:55	42701	AUGU_T1	0	1	1	0	0.1	0.1	0	0	2	2	0	1800	1800	0
11/13/2024 18:55	55001	NEWP_T1	1	0	-1	1.3	0	-1.3	-0.32	-0.33	0	0	0	0	0	0
11/13/2024 18:56	54602	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 18:56	64204	KINZ_T1	1	2	1	0.8	1.2	0.4	0	0	0	0	0	0	0	0
11/13/2024 18:56	42701	AUGU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 18:56	55001	NEWP_T1	1	0	-1	1.3	0	-1.3	-0.32	-0.33	0	0	0	0	0	0
11/13/2024 18:56	54504	ENOL_T2	0	0	0	0	0	0	-1.07	-1.07	1	1	0	600	600	0
11/13/2024 18:56	57402	SPAN_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
11/13/2024 18:56	14802	TREI_T2	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
11/13/2024 18:56	67503	WEWI_T2	1	2	1	5.2	5.2	0	0	0	0	0	0	0	0	0
11/13/2024 18:56	42902	MIDD_T2	0	0	0	0	0	0	-0.44	-0.5	0	0	0	0	0	0
11/13/2024 18:56	54206	PENN_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
11/13/2024 18:56	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:56	54505	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/13/2024 18:56	43801	SWIL_T1	2	5	3	3.15	1.38	-1.77	0	0	0	0	0	0	0	0
11/13/2024 18:56	58402	MORO_T1	14	33	19	0.89	1.33	0.44	0	0	3	3	0	1950	1950	0
11/13/2024 18:56	43302	WATS_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/13/2024 18:56	61701	ELIZ_T1	1	1	0	4	5.1	1.1	0	0	0	0	0	0	0	0
11/13/2024 18:56	45802	HEGI_T2	20	42	22	0.54	0.84	0.3	0	0	0	0	0	0	0	0
11/13/2024 18:56	67002	STHI_T2	51	100	49	0.16	0.2	0.04	0.57	0.55	0	0	0	0	0	0
11/13/2024 18:56	42903	MIDD_T2	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
11/13/2024 18:56	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
11/13/2024 18:56	17804	GILB_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
11/13/2024 18:56	45702	LIND_T2	1	1	0	0.4	1.1	0.7	-0.57	-0.58	0	0	0	0	0	0
11/13/2024 18:56	15203	SFAR_T2	0	0	0	0	0	0	-1.28	-1.29	0	0	0	0	0	0
11/13/2024 18:56	46801	HEPB_T2	2	2	0	0.75	0.8	0.05	0.58	0.54	0	0	0	0	0	0
11/13/2024 18:56	55002	NEWP_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/13/2024 18:56	64902	MILL_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
11/13/2024 18:56	60803	BUCK_T1	0	0	0	0	0	0	-0.47	-0.51	1	1	0	600	600	0
11/13/2024 18:56	67001	STHI_T2	334	414	80	0.16	0.2	0.04	0	0	0	0	0	0	0	0
11/13/2024 18:56	64802	MONE_T2	0	3	3	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/13/2024 18:56	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:56	61703	ELIZ_T1	0	0	0	0	0	0	-2.33	-2.52	2	2	0	2100	2100	0
11/13/2024 18:56	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:56	54601	SUMM_T2	6	11	5	0.22	0.37	0.15	-4.12	-4.11	2	2	0	2100	2100	0
11/13/2024 18:56	67502	WEWI_T2	0	0	0	0	0	0	-1.43	-1.39	1	1	0	900	900	0
11/13/2024 18:56	60101	COCA_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
11/13/2024 18:56	43802	SWIL_T1	0	0	0	0	0	0	-0.19	-0.18	1	1	0	600	600	0
11/13/2024 18:57	60902	DONG_T2	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
11/13/2024 18:57	57102	SPHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:57	58803	COCO_T1	1	1	0	3	2.8	-0.2	0	0	0	0	0	0	0	0
11/13/2024 18:57	54505	ENOL_T2	0	1	1	0	0.2	0.2	-2.56	-2.5	2	2	0	1200	1200	0
11/13/2024 18:57	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:57	66505	SMAN_T2	3	3	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/13/2024 18:57	57106	SPHI_T2	3	3	0	0.7	0.97	0.27	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/13/2024 18:57	67703	WERN_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/13/2024 18:57	44502	HAMI_T2	1	1	0	3.5	3.6	0.1	0	0	0	0	0	0	0	0
11/13/2024 18:57	43302	WATS_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/13/2024 18:57	45702	LIND_T2	1	1	0	0.4	1.1	0.7	-0.57	-0.58	0	0	0	0	0	0
11/13/2024 18:57	14802	TREI_T2	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
11/13/2024 18:57	67002	STHI_T2	51	100	49	0.16	0.2	0.04	0.57	0.55	0	0	0	0	0	0
11/13/2024 18:57	42903	MIDD_T2	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
11/13/2024 18:57	57104	SPHI_T2	2	2	0	5.85	2	-3.85	-0.13	-0.12	0	0	0	0	0	0
11/13/2024 18:57	44501	HAMI_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 18:57	57101	SPHI_T2	6	6	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
11/13/2024 18:57	44505	HAMI_T2	0	0	0	0	0	0	0.54	0.57	0	0	0	0	0	0
11/13/2024 18:57	41301	FISH_T1	1	1	0	2.1	2.5	0.4	0.36	0.36	0	0	0	0	0	0
11/13/2024 18:57	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
11/13/2024 18:57	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:57	45502	DERR_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
11/13/2024 18:57	42902	MIDD_T2	0	0	0	0	0	0	-0.44	-0.5	0	0	0	0	0	0
11/13/2024 18:57	54502	ENOL_T2	0	0	0	0	0	0	-2.01	-2.02	1	1	0	600	600	0
11/13/2024 18:57	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:57	13704	SCHN_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
11/13/2024 18:57	67001	STHI_T2	334	414	80	0.16	0.2	0.04	0.09	0.09	0	0	0	0	0	0
11/13/2024 18:57	43301	WATS_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
11/13/2024 18:58	51102	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:58	67503	WEWI_T2	1	2	1	5.2	5.2	0	0	0	0	0	0	0	0	0
11/13/2024 18:58	66505	SMAN_T2	3	3	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/13/2024 18:58	51104	CARL_T1	1	0	-1	6	0	-6	0	0	0	0	0	0	0	0
11/13/2024 18:58	11301	EMMA_T1	0	0	0	0	0	0	-0.85	-0.82	0	0	0	0	0	0
11/13/2024 18:58	61703	ELIZ_T1	0	0	0	0	0	0	-2.33	-2.52	2	2	0	2100	2100	0
11/13/2024 18:58	40302	TAMA_T3	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
11/13/2024 18:58	66502	SMAN_T2	0	0	0	0	0	0	-0.13	-0.23	0	0	0	0	0	0
11/13/2024 18:58	61803	EELI_T2	0	0	0	0	0	0	0.72	0.75	0	0	0	0	0	0
11/13/2024 18:58	55508	HERS_T2	584	577	-7	1.06	1.17	0.11	-2.64	-2.64	1	1	0	1200	1200	0
11/13/2024 18:58	40301	TAMA_T3	1	1	0	0	0	0	2.17	2.29	1	1	0	1200	1200	0
11/13/2024 18:58	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:58	46003	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/13/2024 18:58	46004	BERW_T2	1	0	-1	1.1	0	-1.1	-0.41	-0.41	0	0	0	0	0	0
11/13/2024 18:58	67502	WEWI_T2	0	0	0	0	0	0	-1.43	-1.39	1	1	0	900	900	0
11/13/2024 18:58	60803	BUCK_T1	0	0	0	0	0	0	-0.47	-0.51	1	1	0	600	600	0
11/13/2024 18:58	51101	CARL_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
11/13/2024 18:58	63501	HEID_TBK1-2	34	38	4	0.29	0.45	0.16	-0.51	-0.56	1	1	0	900	900	0
11/13/2024 18:58	23001	SAIO_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
11/13/2024 18:58	44902	SCOT_T2	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
11/13/2024 18:58	61701	ELIZ_T1	1	1	0	4	5.1	1.1	0	0	0	0	0	0	0	0
11/13/2024 18:58	64101	REFR_T1	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
11/13/2024 18:58	60201	ATGL_T2	0	0	0	0	0	0	-0.15	-0.06	0	0	0	0	0	0
11/13/2024 18:58	66503	SMAN_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
11/13/2024 18:59	43302	WATS_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/13/2024 18:59	66504	SMAN_T2	0	0	0	0	0	0	-0.48	-0.52	0	0	0	0	0	0
11/13/2024 18:59	44201	POIN_T1	200	213	13	0.52	0.5	-0.02	-2.35	-2.36	2	2	0	2100	2100	0
11/13/2024 18:59	58402	MORO_T1	14	33	19	0.89	1.33	0.44	0	0	3	3	0	1950	1950	0
11/13/2024 18:59	44502	HAMI_T2	1	1	0	3.5	3.6	0.1	0	0	0	0	0	0	0	0
11/13/2024 18:59	67502	WEWI_T2	0	0	0	0	0	0	-1.43	-1.39	1	1	0	900	900	0
11/13/2024 18:59	66505	SMAN_T2	3	3	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/13/2024 18:59	44501	HAMI_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
11/13/2024 18:59	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
11/13/2024 18:59	13303	ORVI_T1	0	0	0	0	0	0	-0.52	-0.49	0	0	0	0	0	0
11/13/2024 18:59	57403	SPAN_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
11/13/2024 18:59	43304	WATS_T2	0	0	0	0	0	0	-0.32	-0.37	0	0	0	0	0	0
11/13/2024 18:59	21501	CEAV_T2	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
11/13/2024 18:59	52401	GRPA_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/13/2024 18:59	57401	SPAN_T1	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
11/13/2024 18:59	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:59	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 18:59	67503	WEWI_T2	1	2	1	5.2	5.2	0	0	0	0	0	0	0	0	0
11/13/2024 18:59	52402	GRPA_T2	3	3	0	0.23	0.27	0.04	0	0	0	0	0	0	0	0
11/13/2024 18:59	64802	MONE_T2	0	3	3	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/13/2024 18:59	67505	WEWI_T1	0	0	0	0	0	0	-0.11	-0.12	1	1	0	900	900	0
11/13/2024 18:59	52403	GRPA_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
11/13/2024 18:59	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
11/13/2024 19:00	61701	ELIZ_T1	1	1	0	4.8	5.3	0.5	0	0	0	0	0	0	0	0
11/13/2024 19:00	67703	WERN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/13/2024 19:00	42701	AUGU_T1	0	1	1	0	0.1	0.1	0	0	2	2	0	1800	1800	0
11/13/2024 19:00	57401	SPAN_T1	2	2	0	0.2	0.45	0.25	-0.28	-0.17	1	1	0	600	600	0
11/13/2024 19:00	55503	HERS_T1	0	0	0	0	0	0	-1.73	-1.73	0	0	0	0	0	0
11/13/2024 19:00	28102	TWLA_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
11/13/2024 19:00	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 19:00	61703	ELIZ_T1	0	0	0	0	0	0	-2.33	-2.52	2	2	0	2100	2100	0
11/13/2024 19:00	67002	STHI_T2	55	101	46	0.19	0.2	0.01	0.57	0.55	0	0	0	0	0	0
11/13/2024 19:00	67502	WEWI_T2	0	0	0	0	0	0	-1.43	-1.39	1	1	0	900	900	0
11/13/2024 19:00	49803	UNIV_T1	1	1	0	5.5	5.4	-0.1	-1.11	-1.08	0	0	0	0	0	0
11/13/2024 19:00	67503	WEWI_T2	1	2	1	5.2	4.8	-0.4	0	0	0	0	0	0	0	0
11/13/2024 19:00	55501	HERS_T1	52	52	0	0.46	0.46	0	0	0	0	0	0	0	0	0
11/13/2024 19:00	55507	HERS_T1	45	58	13	0.37	0.45	0.08	0	0	0	0	0	0	0	0
11/13/2024 19:00	67001	STHI_T2	350	406	56	0.17	0.2	0.03	0	0	0	0	0	0	0	0
11/13/2024 19:00	57403	SPAN_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
11/13/2024 19:00	64101	REFR_T1	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
11/13/2024 19:00	67501	WEWI_T1	0	0	0	0	0	0	-0.61	-0.65	0	0	0	0	0	0
11/13/2024 19:00	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 19:01	67201	TEHI_T1	0	0	0	0	0	0	-0.18	-0.2	1	1	0	900	900	0
11/13/2024 19:01	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 19:01	50502	MECH_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
11/13/2024 19:01	60803	BUCK_T1	0	0	0	0	0	0	-0.47	-0.51	1	1	0	600	600	0
11/13/2024 19:01	53501	EVIL_T2	2	1	-1	0.2	0.1	-0.1	-1.47	-1.51	2	2	0	1200	1200	0
11/13/2024 19:01	50506	MECH_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
11/13/2024 19:01	65603	QVIL_T2	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
11/13/2024 19:01	40101	HUNT_T2	27	131	104	0.33	0.27	-0.06	-1.06	-1.09	0	0	0	0	0	0
11/13/2024 19:01	50501	MECH_T1	4	4	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
11/13/2024 19:01	67502	WEWI_T2	0	0	0	0	0	0	-1.43	-1.39	1	1	0	900	900	0
11/13/2024 19:01	57203	ROSS_T1	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
11/13/2024 19:01	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
11/13/2024 19:01	67503	WEWI_T2	1	2	1	5.2	4.8	-0.4	0	0	0	0	0	0	0	0
11/13/2024 19:01	51202	MTON_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
11/13/2024 19:01	40801	EXCH_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	1200	1200	0
11/13/2024 19:02	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 19:02	57401	SPAN_T1	2	2	0	0.2	0.45	0.25	-0.28	-0.17	1	1	0	600	600	0
11/13/2024 19:02	65503	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 19:02	53501	EVIL_T2	2	1	-1	0.2	0.1	-0.1	-1.47	-1.51	2	2	0	1200	1200	0
11/13/2024 19:02	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 19:02	49803	UNIV_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
11/13/2024 19:02	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 19:02	49804	UNIV_T1	0	0	0	0	0	0	0.46	0.5	0	0	0	0	0	0
11/13/2024 19:02	55002	NEWP_T1	1	4	3	0.1	0.33	0.23	0	0	0	0	0	0	0	0
11/13/2024 19:02	64101	REFR_T1	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
11/13/2024 19:02	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 19:03	52403	GRPA_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
11/13/2024 19:03	43302	WATS_T2	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/13/2024 19:03	55002	NEWP_T1	1	4	3	0.1	0.33	0.23	-0.27	-0.24	0	0	0	0	0	0
11/13/2024 19:03	63804	HEMP_T1	1	1	0	5.9	6	0.1	0.44	0.45	0	0	0	0	0	0
11/13/2024 19:03	50502	MECH_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
11/13/2024 19:03	50501	MECH_T1	4	4	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
11/13/2024 19:03	58803	COCO_T1	1	1	0	2.8	2.7	-0.1	0	0	0	0	0	0	0	0
11/13/2024 19:03	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
11/13/2024 19:03	50505	MECH_T1	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
11/13/2024 19:03	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 19:03	53501	EVIL_T2	2	1	-1	0.2	0.1	-0.1	-1.47	-1.51	2	2	0	1200	1200	0
11/13/2024 19:03	52402	GRPA_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
11/13/2024 19:03	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 19:03	43304	WATS_T2	0	0	0	0	0	0	-0.32	-0.37	0	0	0	0	0	0
11/13/2024 19:04	63501	HEID_TBK1-2	38	38	0	0.33	0.5	0.17	-0.51	-0.56	1	1	0	900	900	0
11/13/2024 19:04	15203	SFAR_T2	0	0	0	0	0	0	-1.28	-1.29	0	0	0	0	0	0
11/13/2024 19:04	49803	UNIV_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
11/13/2024 19:04	52402	GRPA_T2	0	3	3	0	0.27	0.27	-1	-0.99	0	0	0	0	0	0
11/13/2024 19:04	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
11/13/2024 19:04	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 19:04	46501	LOHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 19:04	49804	UNIV_T1	0	0	0	0	0	0	0.46	0.5	0	0	0	0	0	0
11/13/2024 19:04	46506	LOHA_T1	3	3	0	2.63	2.93	0.3	0	0	0	0	0	0	0	0
11/13/2024 19:04	44201	POIN_T1	188	207	19	0.48	0.49	0.01	-2.35	-2.36	2	2	0	2100	2100	0
11/13/2024 19:05	66505	SMAN_T2	3	3	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
11/13/2024 19:05	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 19:05	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
11/13/2024 19:06	65502	MOJO_T2	0	0	0	0	0	0	-1.08	-1.08	0	0	0	0	0	0
11/13/2024 19:06	55002	NEWP_T1	1	4	3	0.1	0.33	0.23	0	0	0	0	0	0	0	0
11/13/2024 19:06	64101	REFR_T1	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
11/13/2024 19:06	65503	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 19:06	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 19:06	55001	NEWP_T1	0	0	0	0	0	0	-0.33	-0.3	0	0	0	0	0	0
11/13/2024 19:06	57205	ROSS_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
11/13/2024 19:07	66504	SMAN_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
11/13/2024 19:07	66505	SMAN_T2	3	3	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
11/13/2024 19:07	64904	MILL_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
11/13/2024 19:09	12606	MACA_T1	0	0	0	0	0	0	-0.33	-0.34	1	1	0	900	900	0
11/13/2024 19:24	13303	ORVI_T1	0	0	0	0	0	0	-0.45	-0.48	0	0	0	0	0	0
11/13/2024 19:25	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.13	0	0	0	0	0	0
11/13/2024 19:27	14801	TREI_T2	0	0	0	0	0	0	0.48	0.51	0	0	0	0	0	0
11/13/2024 19:32	67002	STHI_T2	56	98	42	0.18	0.21	0.03	0	0	0	0	0	0	0	0
11/13/2024 19:32	67001	STHI_T2	280	472	192	0.17	0.22	0.05	0.1	0.1	0	0	0	0	0	0
11/13/2024 19:39	41301	FISH_T1	1	1	0	2.2	2.4	0.2	0.36	0.36	0	0	0	0	0	0
11/13/2024 19:45	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2024 19:54	46802	HEPB_T1	0	0	0	0	0	0	-0.19	-0.08	0	0	0	0	0	0
11/13/2024 20:02	64702	LITI_T2	0	0	0	0	0	0	-0.87	-0.79	0	0	0	0	0	0
11/13/2024 20:10	55507	HERS_T1	54	65	11	0.4	0.65	0.25	-0.01	-0.01	0	0	0	0	0	0
11/13/2024 20:10	55501	HERS_T1	52	52	0	0.52	0.64	0.12	0	0	0	0	0	0	0	0
11/13/2024 20:18	60101	COCA_T1	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/13/2024 20:46	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/13/2024 20:46	54503	ENOL_T2	0	0	0	0	0	0	-0.43	-0.43	1	1	0	600	600	0
11/13/2024 20:46	54505	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
11/13/2024 21:39	64202	KINZ_T1	3	0	-3	0.33	0	-0.33	0.58	0.57	0	0	0	0	0	0
11/13/2024 21:39	64201	KINZ_T1	17	0	-17	0.23	0	-0.23	0	0	0	0	0	0	0	0
11/13/2024 21:39	64204	KINZ_T1	14	1	-13	0.21	1.1	0.89	0	0	0	0	0	0	0	0
11/14/2024 7:28	21501	CEAV_T2	0	0	0	0	0	0	0.69	0.73	0	0	0	0	0	0
11/14/2024 7:28	21502	CEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 7:56	45502	DERR_T2	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/14/2024 7:56	45501	DERR_T2	3	2	-1	0.3	0.15	-0.15	0.91	0.88	2	2	0	1800	1800	0
11/14/2024 7:57	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 7:57	66505	SMAN_T2	3	3	0	0.97	1.53	0.56	-0.2	-0.18	0	0	0	0	0	0
11/14/2024 7:59	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 7:59	66503	SMAN_T2	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
11/14/2024 7:59	66505	SMAN_T2	3	3	0	0.97	1.53	0.56	0	0	0	0	0	0	0	0
11/14/2024 8:00	45502	DERR_T2	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
11/14/2024 8:00	45501	DERR_T2	2	2	0	0.45	0.2	-0.25	0.91	0.88	2	2	0	1800	1800	0
11/14/2024 8:01	66505	SMAN_T2	3	3	0	1.53	1.23	-0.3	-0.2	-0.18	0	0	0	0	0	0
11/14/2024 8:04	58401	MORO_T1	0	0	0	0	0	0	0	0	2	2	0	1500	1500	0
11/14/2024 8:04	55002	NEWP_T1	6	4	-2	0.37	0.38	0.01	-0.19	-0.19	0	0	0	0	0	0
11/14/2024 8:04	66505	SMAN_T2	3	3	0	1.53	1.23	-0.3	0	0	0	0	0	0	0	0
11/14/2024 8:04	58402	MORO_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 8:04	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 8:06	58401	MORO_T1	0	0	0	0	0	0	0	0	2	2	0	1500	1500	0
11/14/2024 8:06	58402	MORO_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 8:18	45701	LIND_T2	0	0	0	0	0	0	-1.66	-1.67	0	0	0	0	0	0
11/14/2024 8:18	45702	LIND_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/14/2024 8:20	65703	RVIL_T1	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
11/14/2024 8:23	65702	RVIL_T2	0	1	1	0	0.2	0.2	-1.08	-1.08	1	1	0	600	600	0
11/14/2024 8:24	65702	RVIL_T2	0	1	1	0	0.2	0.2	-1.08	-1.08	1	1	-1	600	600	0
11/14/2024 8:30	12006	HATF_T1	2	2	0	1.4	1.35	-0.05	0.25	0.18	1	1	0	1200	1200	0
11/14/2024 8:31	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
11/14/2024 8:31	63802	HEMP_T1	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
11/14/2024 8:32	51004	NHAR_T1	2	2	0	5.75	5.7	-0.05	-0.63	-0.63	0	0	0	0	0	0
11/14/2024 8:32	51002	NHAR_T1	2	1	-1	0.8	1.4	0.6	0	0	0	0	0	0	0	0
11/14/2024 8:34	52502	PROG_T2	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
11/14/2024 8:35	55002	NEWP_T1	2	4	2	0.45	0.53	0.08	0	0	0	0	0	0	0	0
11/14/2024 8:35	55001	NEWP_T1	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
11/14/2024 8:35	52502	PROG_T2	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
11/14/2024 8:37	52502	PROG_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
11/14/2024 8:38	10205	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 8:38	10101	ALLE_T3	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
11/14/2024 8:45	45702	LIND_T2	1	1	0	0.3	0.3	0	-0.46	-0.48	0	0	0	0	0	0
11/14/2024 8:52	52501	PROG_T1	128	64	-64	0.16	0.11	-0.05	-1.56	-1.01	2	0	-2	600	0	-600
11/14/2024 8:53	51204	MTON_T2	0	0	0	0	0	0	-0.45	-0.42	1	1	0	600	600	0
11/14/2024 8:53	16302	ALPA_T2	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
11/14/2024 8:54	55002	NEWP_T1	3	4	1	0.4	0.58	0.18	-0.21	-0.21	0	0	0	0	0	0
11/14/2024 8:57	52501	PROG_T1	128	64	-64	0.16	0.11	-0.05	-0.78	-0.5	1	0	-1	300	0	-300
11/14/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
11/14/2024 9:00	11203	ELHE_T1	2	2	0	0.1	0	-0.1	0.88	0.9	0	0	0	0	0	0
11/14/2024 9:00	64802	MONE_T2	52	64	12	0.29	0.34	0.05	-2.01	-2.01	0	0	0	0	0	0
11/14/2024 9:00	65702	RVIL_T2	0	1	1	0	0.4	0.4	-2.16	-2.16	2	2	0	1200	1200	0
11/14/2024 9:00	51002	NHAR_T1	1	3	2	1.3	0.7	-0.6	0	0	0	0	0	0	0	0
11/14/2024 9:00	65503	MOJO_T2	0	0	0	0	0	0	-0.95	-1.05	1	1	0	900	900	0
11/14/2024 9:00	67503	WEWI_T2	1	1	0	6.2	6.5	0.3	-0.27	-0.31	0	0	0	0	0	0
11/14/2024 9:00	51004	NHAR_T1	2	2	0	5.8	5.75	-0.05	-0.63	-0.61	0	0	0	0	0	0
11/14/2024 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
11/14/2024 9:03	23403	HONE_T1	0	0	0	0	0	0	-0.63	-0.69	0	0	0	0	0	0
11/14/2024 9:07	60301	TWVA_T2	0	0	0	0	0	0	-6.26	-6.36	4	4	0	3600	3600	0
11/14/2024 9:12	55507	HERS_T1	6	9	3	0.3	0.29	-0.01	-0.01	-0.01	0	0	0	0	0	0
11/14/2024 9:13	55508	HERS_T2	340	356	16	0.91	1.05	0.14	-2.64	-2.64	1	1	0	1200	1200	0
11/14/2024 9:14	52403	GRPA_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
11/14/2024 9:14	55508	HERS_T2	340	356	16	0.91	1.05	0.14	-2.64	-2.64	1	1	0	1200	1200	0
11/14/2024 9:14	45502	DERR_T2	1	2	1	0.7	0	-0.7	0	0	0	0	0	0	0	0
11/14/2024 9:14	52402	GRPA_T2	4	1	-3	0.35	0.1	-0.25	-0.77	-0.79	0	0	0	0	0	0
11/14/2024 9:14	45501	DERR_T2	0	0	0	0	0	0	1.68	1.56	4	4	0	3600	3600	0
11/14/2024 9:14	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/14/2024 9:16	48901	FOSP_T2	0	0	0	0	0	0	-0.1	-0.11	1	1	0	600	600	0
11/14/2024 9:17	42902	MIDD_T2	0	0	0	0	0	0	-0.82	-0.97	1	1	0	600	600	0
11/14/2024 9:18	42902	MIDD_T2	0	0	0	0	0	0	-0.82	-0.97	1	1	0	600	600	0
11/14/2024 9:18	63501	HEID_TBK1-2	0	0	0	0	0	0	0.08	0.1	1	1	0	900	900	0
11/14/2024 9:20	15203	SFAR_T2	0	0	0	0	0	0	-1.32	-1.32	0	0	0	0	0	0
11/14/2024 9:21	52502	PROG_T2	0	0	0	0	0	0	0.47	0.5	0	0	0	0	0	0
11/14/2024 9:23	15203	SFAR_T2	0	0	0	0	0	0	-2.64	-2.64	0	0	0	0	0	0
11/14/2024 9:23	14801	TREI_T2	0	1	1	0	0.2	0.2	0.49	0.48	0	0	0	0	0	0
11/14/2024 9:24	52502	PROG_T2	0	0	0	0	0	0	0.47	0.5	0	0	0	0	0	0
11/14/2024 9:32	45702	LIND_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/14/2024 9:32	45701	LIND_T2	0	0	0	0	0	0	-1.65	-1.64	0	0	0	0	0	0
11/14/2024 9:33	45702	LIND_T2	0	1	1	0	0.3	0.3	-0.47	-0.46	0	0	0	0	0	0
11/14/2024 9:34	65205	PRIN_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/14/2024 9:34	65202	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/14/2024 9:41	45502	DERR_T2	1	1	0	0.1	0.3	0.2	0.32	0.33	0	0	0	0	0	0
11/14/2024 9:51	54602	SUMM_T2	13	16	3	0.38	0.38	0	0	0	0	0	0	0	0	0
11/14/2024 9:51	54601	SUMM_T2	10	8	-2	0.54	0.44	-0.1	-4.19	-4.2	2	2	0	2100	2100	0
11/14/2024 9:52	15203	SFAR_T2	0	1	1	0	0.1	0.1	-1.3	-1.34	0	0	0	0	0	0
11/14/2024 9:52	54602	SUMM_T2	13	16	3	0.38	0.38	0	0	0	0	0	0	0	0	0
11/14/2024 9:52	54601	SUMM_T2	10	8	-2	0.54	0.44	-0.1	-8.38	-8.4	4	4	0	4200	4200	0
11/14/2024 9:54	52502	PROG_T2	0	0	0	0	0	0	0.52	0.45	0	0	0	0	0	0
11/14/2024 9:55	54602	SUMM_T2	13	16	3	0.38	0.38	0	0	0	0	0	0	0	0	0
11/14/2024 9:55	54601	SUMM_T2	10	8	-2	0.54	0.44	-0.1	-4.19	-4.2	2	2	0	2100	2100	0
11/14/2024 9:58	10801	CHHI_T1	0	1	1	0	0	0	-1.64	-1.03	2	1	-1	1500	900	-600
11/14/2024 10:01	10801	CHHI_T1	0	1	1	0	0	0	-1.64	-1.03	2	1	-1	1500	900	-600
11/14/2024 10:05	55002	NEWP_T1	5	5	0	0.74	0.66	-0.08	-0.22	-0.22	0	0	0	0	0	0
11/14/2024 10:07	13303	ORVI_T1	0	0	0	0	0	0	-0.31	-0.24	0	0	0	0	0	0
11/14/2024 10:09	43801	SWIL_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
11/14/2024 10:09	43802	SWIL_T1	0	0	0	0	0	0	-0.18	-0.22	1	1	0	600	600	0
11/14/2024 10:11	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 10:11	65207	PRIN_T4	3	2	-1	0.9	2.95	2.05	0	0	0	0	0	0	0	0
11/14/2024 10:11	65206	PRIN_T4	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 10:21	41902	REED_T1	0	0	0	0	0	0	1.1	1.14	0	0	0	0	0	0
11/14/2024 10:25	67503	WEWI_T2	1	1	0	6.8	7.5	0.7	0	0	0	0	0	0	0	0
11/14/2024 10:25	67502	WEWI_T2	0	0	0	0	0	0	-0.06	-0.14	0	0	0	0	0	0
11/14/2024 10:25	64801	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/14/2024 10:33	45802	HEGI_T2	10	1	-9	0.3	0.2	-0.1	0.08	0.44	2	2	0	1800	1800	0
11/14/2024 10:36	57401	SPAN_T1	0	2	2	0	0.3	0.3	-1.1	-1.1	1	1	0	600	600	0
11/14/2024 10:36	57403	SPAN_T1	3	22	19	0.1	0.23	0.13	0	0	0	0	0	0	0	0
11/14/2024 10:37	14801	TREI_T2	1	1	0	0.1	0.3	0.2	0.43	0.45	0	0	0	0	0	0
11/14/2024 10:40	57401	SPAN_T1	0	2	2	0	0.3	0.3	-1.1	-1.1	1	1	0	600	600	0
11/14/2024 10:40	57403	SPAN_T1	3	22	19	0.1	0.23	0.13	0.16	0.12	0	0	0	0	0	0
11/14/2024 10:42	67202	TEHI_T2	0	0	0	0	0	0	0.78	0.98	1	1	0	900	900	0
11/14/2024 10:46	40101	HUNT_T2	0	4	4	0	0.1	0.1	-1.09	-1.11	1	1	0	300	300	0
11/14/2024 10:55	15204	SFAR_T2	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
11/14/2024 10:55	15203	SFAR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/14/2024 10:56	42701	AUGU_T1	1	1	0	0.3	0.2	-0.1	0	0	2	2	0	1800	1800	0
11/14/2024 10:57	42701	AUGU_T1	1	1	0	0.3	0.2	-0.1	0	0	2	2	0	1800	1800	0
11/14/2024 10:59	46002	BERW_T2	0	0	0	0	0	0	-0.58	-0.7	1	1	0	900	900	0
11/14/2024 10:59	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 11:07	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 11:09	52503	PROG_T2	0	0	0	0	0	0	0.91	0.89	0	0	0	0	0	0
11/14/2024 11:15	52404	GRPA_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
11/14/2024 11:15	52402	GRPA_T2	2	1	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
11/14/2024 11:15	66901	SHIL_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
11/14/2024 11:15	66902	SHIL_T2	0	0	0	0	0	0	-0.99	-1.02	0	0	0	0	0	0
11/14/2024 11:15	52401	GRPA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/14/2024 11:15	52403	GRPA_T2	1	1	0	0.2	0.2	0	-0.06	-0.11	0	0	0	0	0	0
11/14/2024 11:17	53501	EVIL_T2	2	2	0	0.6	0.5	-0.1	-0.96	-0.98	3	3	0	1800	1800	0
11/14/2024 11:17	40101	HUNT_T2	2	3	1	0.15	0	-0.15	-1.04	-1.05	1	1	0	300	300	0
11/14/2024 11:19	66901	SHIL_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
11/14/2024 11:27	60101	COCA_T1	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
11/14/2024 11:29	60101	COCA_T1	0	0	0	0	0	0	0.35	0.32	0	0	0	0	0	0
11/14/2024 11:33	45802	HEGI_T2	22	21	-1	0.47	0.54	0.07	0	0	0	0	0	0	0	0
11/14/2024 11:34	58202	NEWV_T1	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
11/14/2024 11:34	58401	MORO_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/14/2024 11:35	58401	MORO_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/14/2024 11:36	58402	MORO_T1	0	0	0	0	0	0	0	0	3	4	1	2400	2700	300
11/14/2024 11:40	51602	DUKE_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
11/14/2024 11:43	67402	WAKE_T2	0	0	0	0	0	0	0.37	0.38	1	1	0	600	600	0
11/14/2024 11:44	51603	DUKE_T1	2	2	0	0.35	0.5	0.15	-0.33	-0.32	0	0	0	0	0	0
11/14/2024 11:45	51603	DUKE_T1	2	2	0	0.5	0.35	-0.15	-0.33	-0.32	0	0	0	0	0	0
11/14/2024 11:46	51603	DUKE_T1	2	2	0	0.5	0.35	-0.15	-0.33	-0.32	0	0	0	0	0	0
11/14/2024 11:47	51603	DUKE_T1	2	2	0	0.5	0.35	-0.15	-0.33	-0.32	0	0	0	0	0	0
11/14/2024 11:49	45702	LIND_T2	1	1	0	1.8	2.1	0.3	-0.63	-0.62	0	0	0	0	0	0
11/14/2024 11:50	41902	REED_T1	0	0	0	0	0	0	1.06	1.02	0	0	0	0	0	0
11/14/2024 11:53	13303	ORVI_T1	0	0	0	0	0	0	-0.35	-0.27	0	0	0	0	0	0
11/14/2024 11:55	42701	AUGU_T1	1	1	0	0.3	0.5	0.2	0	0	2	2	0	1800	1800	0
11/14/2024 11:55	67201	TEHI_T1	0	0	0	0	0	0	0.79	0.76	1	1	0	900	900	0
11/14/2024 11:58	64802	MONE_T2	29	37	8	0.14	0.18	0.04	-0.01	-0.01	0	0	0	0	0	0
11/14/2024 11:59	67503	WEWI_T2	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
11/14/2024 11:59	67502	WEWI_T2	0	1	1	0	0.3	0.3	-0.15	-0.25	0	0	0	0	0	0
11/14/2024 12:00	46802	HEPB_T1	99	163	64	0.25	0.33	0.08	-1.26	-1.25	0	0	0	0	0	0
11/14/2024 12:01	20603	GRWO_T2	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
11/14/2024 12:02	63501	HEID_TBK1-2	1	1	0	0.6	0.9	0.3	-0.08	0.07	2	2	0	1800	1800	0
11/14/2024 12:02	54506	ENOL_T2	0	0	0	0	0	0	0.39	0.4	1	1	0	600	600	0
11/14/2024 12:02	54502	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/14/2024 12:02	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
11/14/2024 12:03	63501	HEID_TBK1-2	1	1	0	0.6	0.9	0.3	-0.04	0.03	1	1	0	900	900	0
11/14/2024 12:05	45702	LIND_T2	1	1	0	1.6	2.1	0.5	-0.62	-0.63	0	0	0	0	0	0
11/14/2024 12:06	41902	REED_T1	0	0	0	0	0	0	1.02	0.99	0	0	0	0	0	0
11/14/2024 12:07	13303	ORVI_T1	0	0	0	0	0	0	-0.27	-0.23	0	0	0	0	0	0
11/14/2024 12:09	57403	SPAN_T1	44	57	13	0.35	0.29	-0.06	0	0	0	0	0	0	0	0
11/14/2024 12:09	57401	SPAN_T1	3	4	1	0.3	0.53	0.23	-1.09	-1.12	1	1	0	600	600	0
11/14/2024 12:10	65602	QVIL_T2	3	42	39	0.13	0.5	0.37	0	0	0	0	0	0	0	0
11/14/2024 12:10	65601	QVIL_T2	0	0	0	0	0	0	-1.16	-1.19	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/14/2024 12:10	65603	QVIL_T2	0	0	0	0	0	0	0.3	0.25	0	0	0	0	0	0
11/14/2024 12:11	57401	SPAN_T1	3	4	1	0.3	0.53	0.23	-1.09	-1.12	1	1	0	600	600	0
11/14/2024 12:11	57403	SPAN_T1	44	57	13	0.35	0.29	-0.06	0	0	0	0	0	0	0	0
11/14/2024 12:11	44302	BEAV_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
11/14/2024 12:12	11303	EMMA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/14/2024 12:12	11301	EMMA_T1	0	0	0	0	0	0	-1.68	-1.73	0	0	0	0	0	0
11/14/2024 12:14	65602	QVIL_T2	3	42	39	0.13	0.5	0.37	0	0	0	0	0	0	0	0
11/14/2024 12:14	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 12:15	65603	QVIL_T2	0	0	0	0	0	0	0.3	0.25	0	0	0	0	0	0
11/14/2024 12:15	65602	QVIL_T2	20	42	22	0.18	0.5	0.32	0	0	0	0	0	0	0	0
11/14/2024 12:17	63601	LETO_T1	6	5	-1	0.7	0.7	0	0.93	0.94	0	0	0	0	0	0
11/14/2024 12:19	63601	LETO_T1	6	5	-1	0.7	0.7	0	0.93	0.94	0	0	0	0	0	0
11/14/2024 12:20	46602	LACR_T1	0	0	0	0	0	0	-2.55	-2.4	0	0	0	0	0	0
11/14/2024 12:21	46801	HEPB_T2	3	3	0	0.87	0.83	-0.04	0	0	0	0	0	0	0	0
11/14/2024 12:21	45702	LIND_T2	1	1	0	2.1	2	-0.1	-0.63	-0.6	0	0	0	0	0	0
11/14/2024 12:21	46803	HEPB_T2	0	1	1	0	0.1	0.1	0.45	0.47	0	0	0	0	0	0
11/14/2024 12:23	16302	ALPA_T2	2	0	-2	0.3	0	-0.3	0.62	0.66	0	0	0	0	0	0
11/14/2024 12:23	43301	WATS_T2	0	0	0	0	0	0	-0.83	-0.84	1	1	0	900	900	0
11/14/2024 12:23	43302	WATS_T2	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
11/14/2024 12:24	43304	WATS_T2	0	0	0	0	0	0	-0.18	-0.24	0	0	0	0	0	0
11/14/2024 12:24	16302	ALPA_T2	2	0	-2	0.3	0	-0.3	0.62	0.66	0	0	0	0	0	0
11/14/2024 12:24	43302	WATS_T2	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
11/14/2024 12:26	67503	WEWI_T2	1	1	0	7.6	8.2	0.6	-0.54	-0.58	0	0	0	0	0	0
11/14/2024 12:26	67502	WEWI_T2	1	1	0	0.3	0.5	0.2	-0.29	-0.25	0	0	0	0	0	0
11/14/2024 12:26	64802	MONE_T2	32	49	17	0.18	0.26	0.08	-0.01	-0.01	0	0	0	0	0	0
11/14/2024 12:27	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
11/14/2024 12:27	54502	ENOL_T2	1	1	0	0.8	1	0.2	-2.11	-2.1	1	1	0	600	600	0
11/14/2024 12:28	16302	ALPA_T2	2	0	-2	0.3	0	-0.3	0.62	0.66	0	0	0	0	0	0
11/14/2024 12:29	16302	ALPA_T2	2	0	-2	0.3	0	-0.3	0.62	0.66	0	0	0	0	0	0
11/14/2024 12:29	67502	WEWI_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/14/2024 12:29	54505	ENOL_T2	1	1	0	0.9	0.9	0	-1.24	-1.25	1	1	0	600	600	0
11/14/2024 12:29	67503	WEWI_T2	1	1	0	7.6	8.2	0.6	-0.54	-0.58	0	0	0	0	0	0
11/14/2024 12:29	54502	ENOL_T2	1	1	0	0.8	1	0.2	-2.11	-2.1	1	1	0	600	600	0
11/14/2024 12:30	54505	ENOL_T2	1	1	0	0.9	0.9	0	-1.24	-1.25	1	1	0	600	600	0
11/14/2024 12:30	54501	ENOL_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
11/14/2024 12:30	51603	DUKE_T1	2	2	0	0.45	0.5	0.05	-0.31	-0.3	0	0	0	0	0	0
11/14/2024 12:30	54503	ENOL_T2	0	0	0	0	0	0	-0.4	-0.42	1	1	0	600	600	0
11/14/2024 12:30	54502	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
11/14/2024 12:32	47203	FAXO_T2	1	1	0	0.1	0.4	0.3	-0.38	-0.39	0	0	0	0	0	0
11/14/2024 12:37	65802	RTWN_T2	0	0	0	0	0	0	-0.22	-0.15	0	0	0	0	0	0
11/14/2024 12:38	14801	TREI_T2	5	2	-3	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/14/2024 12:38	14802	TREI_T2	0	1	1	0	0.1	0.1	0.39	0.36	0	0	0	0	0	0
11/14/2024 12:38	65802	RTWN_T2	0	0	0	0	0	0	-0.22	-0.15	0	0	0	0	0	0
11/14/2024 12:41	15203	SFAR_T2	4	4	0	0.28	0.33	0.05	-1.35	-1.36	0	0	0	0	0	0
11/14/2024 12:41	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 12:41	43801	SWIL_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
11/14/2024 12:41	15204	SFAR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/14/2024 12:41	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 12:41	65602	QVIL_T2	42	29	-13	0.5	0.24	-0.26	0	0	0	0	0	0	0	0
11/14/2024 12:42	65602	QVIL_T2	42	29	-13	0.5	0.24	-0.26	0	0	0	0	0	0	0	0
11/14/2024 12:42	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 12:42	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 12:43	66901	SHIL_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
11/14/2024 12:44	65603	QVIL_T2	0	0	0	0	0	0	0.5	0.66	0	0	0	0	0	0
11/14/2024 12:44	65602	QVIL_T2	42	29	-13	0.5	0.24	-0.26	0	0	0	0	0	0	0	0
11/14/2024 12:47	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
11/14/2024 12:47	54504	ENOL_T2	0	0	0	0	0	0	-1.04	-1.07	1	1	0	600	600	0
11/14/2024 12:47	54502	ENOL_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
11/14/2024 12:56	13101	NHAM_T1	0	0	0	0	0	0	-3.06	-2.87	2	2	0	2400	2400	0
11/14/2024 12:56	40101	HUNT_T2	0	0	0	0	0	0	-0.84	-0.82	0	0	0	0	0	0
11/14/2024 12:58	10705	CATA_T2	1	1	0	1	1	0	-2.91	-2.82	3	3	0	2700	2700	0
11/14/2024 12:58	10702	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/14/2024 13:00	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
11/14/2024 13:00	54504	ENOL_T2	0	0	0	0	0	0	-1.07	-1.06	1	1	0	600	600	0
11/14/2024 13:00	54502	ENOL_T2	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
11/14/2024 13:01	11801	FRAN_T2	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
11/14/2024 13:02	22602	KIMB_T1	0	0	0	0	0	0	0.23	0.26	0	0	0	0	0	0
11/14/2024 13:03	54502	ENOL_T2	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
11/14/2024 13:03	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
11/14/2024 13:03	54504	ENOL_T2	0	0	0	0	0	0	-1.07	-1.06	1	1	0	600	600	0
11/14/2024 13:08	57205	ROSS_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
11/14/2024 13:11	67503	WEWI_T2	1	1	0	8.1	8.3	0.2	0	0	0	0	0	0	0	0
11/14/2024 13:11	42802	SELI_T1	0	0	0	0	0	0	-2.44	-2.42	1	1	0	900	900	0
11/14/2024 13:11	67502	WEWI_T2	1	1	0	0.2	0.2	0	-0.15	-0.04	0	0	0	0	0	0
11/14/2024 13:18	63803	HEMP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/14/2024 13:18	63804	HEMP_T1	1	1	0	6.1	6.2	0.1	0.8	0.85	0	0	0	0	0	0
11/14/2024 13:27	15203	SFAR_T2	3	3	0	0.17	0.13	-0.04	-2.74	-2.74	0	0	0	0	0	0
11/14/2024 13:28	44301	BEAV_T2	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
11/14/2024 13:28	15203	SFAR_T2	3	3	0	0.17	0.13	-0.04	-1.37	-1.37	0	0	0	0	0	0
11/14/2024 13:29	15203	SFAR_T2	3	3	0	0.17	0.13	-0.04	-1.37	-1.37	0	0	0	0	0	0
11/14/2024 13:31	15203	SFAR_T2	3	2	-1	0.13	0.15	0.02	-1.37	-1.37	0	0	0	0	0	0
11/14/2024 13:32	62606	ENGL_T1	16	31	15	0.1	0.12	0.02	0	0	0	0	0	0	0	0
11/14/2024 13:32	62604	ENGL_T1	0	0	0	0	0	0	0.37	0.23	1	1	0	600	600	0
11/14/2024 13:32	62605	ENGL_T1	5	1	-4	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
11/14/2024 13:33	45303	WBER_T2	1	1	0	9.8	9.9	0.1	0	0	0	0	0	0	0	0
11/14/2024 13:33	45302	WBER_T2	0	0	0	0	0	0	0.48	0.68	0	0	0	0	0	0
11/14/2024 13:33	40101	HUNT_T2	5	6	1	0.34	0.8	0.46	-0.78	-0.76	0	0	0	0	0	0
11/14/2024 13:34	65004	NEFF_T2	0	0	0	0	0	0	-1.18	-1.19	1	1	0	600	600	0
11/14/2024 13:35	65001	NEFF_T2	0	0	0	0	0	0	0.59	0.47	0	0	0	0	0	0
11/14/2024 13:38	65004	NEFF_T2	0	0	0	0	0	0	-1.19	-1.18	1	1	0	600	600	0
11/14/2024 13:38	65003	NEFF_T2	0	0	0	0	0	0	-1.66	-1.61	2	2	0	1800	1800	0
11/14/2024 13:39	57403	SPAN_T1	144	155	11	0.34	0.4	0.06	0	0	0	0	0	0	0	0
11/14/2024 13:39	57401	SPAN_T1	15	42	27	0.22	0.18	-0.04	-1.13	-1.14	1	1	0	600	600	0
11/14/2024 13:42	54504	ENOL_T2	0	0	0	0	0	0	-1.08	-1.06	1	1	0	600	600	0
11/14/2024 13:42	10702	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/14/2024 13:42	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
11/14/2024 13:42	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
11/14/2024 13:42	10705	CATA_T2	0	0	0	0	0	0	-0.96	-0.95	1	1	0	900	900	0
11/14/2024 13:43	10705	CATA_T2	0	0	0	0	0	0	-0.96	-0.95	1	1	0	900	900	0
11/14/2024 13:43	10702	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/14/2024 13:44	10705	CATA_T2	0	0	0	0	0	0	-0.96	-0.95	1	1	0	900	900	0
11/14/2024 13:44	10702	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/14/2024 13:45	10705	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 13:45	10702	CATA_T2	1	1	0	0.4	0.5	0.1	-0.82	-0.85	0	0	0	0	0	0
11/14/2024 13:47	10702	CATA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/14/2024 13:47	10705	CATA_T2	0	1	1	0	0	0	-2.87	-2.85	3	3	0	2700	2700	0
11/14/2024 13:48	46802	HEPB_T1	1	1	0	2.1	0.6	-1.5	-1.23	-0.22	0	0	0	0	0	0
11/14/2024 13:54	43302	WATS_T2	0	4	4	0	0.18	0.18	-0.47	-0.46	3	3	0	2400	2400	0
11/14/2024 13:54	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 13:56	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
11/14/2024 13:56	54505	ENOL_T2	1	1	0	0.9	0.8	-0.1	-1.3	-1.3	1	1	0	600	600	0
11/14/2024 13:56	43302	WATS_T2	0	4	4	0	0.18	0.18	-0.47	-0.46	3	3	0	2400	2400	0
11/14/2024 13:56	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 13:59	44801	EDAN_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
11/14/2024 14:01	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	-1.3	-1.3	1	1	0	600	600	0
11/14/2024 14:01	54502	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
11/14/2024 14:04	14801	TREI_T2	0	0	0	0	0	0	0.38	0.41	0	0	0	0	0	0
11/14/2024 14:05	67402	WAKE_T2	0	0	0	0	0	0	0.39	0.39	1	1	0	600	600	0
11/14/2024 14:11	43302	WATS_T2	4	0	-4	0.18	0	-0.18	0	0	0	0	0	0	0	0
11/14/2024 14:11	43301	WATS_T2	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
11/14/2024 14:12	43301	WATS_T2	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
11/14/2024 14:12	43302	WATS_T2	4	0	-4	0.18	0	-0.18	0	0	0	0	0	0	0	0
11/14/2024 14:13	46004	BERW_T2	2	1	-1	0.5	0	-0.5	-0.64	-0.58	0	0	0	0	0	0
11/14/2024 14:13	65207	PRIN_T4	2	2	0	1.5	2	0.5	0	0	2	2	0	1800	1800	0
11/14/2024 14:14	66903	SHIL_T2	0	0	0	0	0	0	-1.01	-1.07	0	0	0	0	0	0
11/14/2024 14:15	66903	SHIL_T2	0	0	0	0	0	0	-1.01	-1.07	0	0	0	0	0	0
11/14/2024 14:18	12802	MICK_T1	3	13	10	0.1	0.12	0.02	-1.2	-1.2	0	0	0	0	0	0
11/14/2024 14:18	12803	MICK_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/14/2024 14:18	12807	MICK_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
11/14/2024 14:19	12803	MICK_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/14/2024 14:19	12801	MICK_T1	0	0	0	0	0	0	-0.12	-0.12	1	1	0	600	600	0
11/14/2024 14:19	12807	MICK_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
11/14/2024 14:19	12802	MICK_T1	3	13	10	0.1	0.12	0.02	0	0	0	0	0	0	0	0
11/14/2024 14:20	23201	HIRU_T2	0	0	0	0	0	0	-0.52	-0.49	0	0	0	0	0	0
11/14/2024 14:21	57201	ROSS_T1	0	0	0	0	0	0	-0.65	-0.6	0	0	0	0	0	0
11/14/2024 14:28	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/14/2024 14:33	12006	HATF_T1	0	0	0	0	0	0	0.05	0.03	1	1	0	1200	1200	0
11/14/2024 14:35	46602	LACR_T1	1	2	1	2.4	0.1	-2.3	-1.23	-1.27	0	0	0	0	0	0
11/14/2024 14:36	54505	ENOL_T2	1	1	0	0.7	0.7	0	-1.29	-1.29	1	1	0	600	600	0
11/14/2024 14:36	54502	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/14/2024 14:43	17401	FOHI_T1	0	0	0	0	0	0	-1.06	-1.04	0	0	0	0	0	0
11/14/2024 14:44	17401	FOHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 14:53	57403	SPAN_T1	10	4	-6	0.13	0.15	0.02	0	0	0	0	0	0	0	0
11/14/2024 14:53	57401	SPAN_T1	2	2	0	0.75	0.65	-0.1	-0.98	-0.79	1	1	0	600	600	0
11/14/2024 14:53	57404	SPAN_T2	0	0	0	0	0	0	1.49	1.49	0	0	0	0	0	0
11/14/2024 14:55	57404	SPAN_T2	0	0	0	0	0	0	1.49	1.49	0	0	0	0	0	0
11/14/2024 14:56	57403	SPAN_T1	10	4	-6	0.13	0.15	0.02	0	0	0	0	0	0	0	0
11/14/2024 14:56	57401	SPAN_T1	2	2	0	0.75	0.65	-0.1	-0.98	-0.79	1	1	0	600	600	0
11/14/2024 15:02	51603	DUKE_T1	2	2	0	0.25	0.55	0.3	-0.39	-0.38	0	0	0	0	0	0
11/14/2024 15:03	46101	MACI_T2	0	0	0	0	0	0	-0.12	-0.04	1	1	0	1200	1200	0
11/14/2024 15:05	64702	LITI_T2	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
11/14/2024 15:05	63501	HEID_TBK1-2	2	3	1	0.5	0.43	-0.07	-0.08	-0.09	1	1	0	900	900	0
11/14/2024 15:16	24104	EHAZ_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	1200	1200	0
11/14/2024 15:16	24101	EHAZ_T1	2	15	13	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/14/2024 15:16	24105	EHAZ_T1	4	4	0	6.63	6.75	0.12	0	0	0	0	0	0	0	0
11/14/2024 15:59	10705	CATA_T2	0	0	0	0	0	0	-0.97	-0.96	1	1	0	900	900	0
11/14/2024 15:59	10702	CATA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/14/2024 16:13	21502	CEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 16:13	21501	CEAV_T2	0	0	0	0	0	0	0.91	0.77	0	0	0	0	0	0
11/14/2024 18:26	46602	LACR_T1	2	6	4	0.1	0.18	0.08	-1.27	-1.2	0	0	0	0	0	0
11/14/2024 18:26	58402	MORO_T1	1	12	11	0.1	0.1	0	0	0	3	3	0	2400	1950	-450
11/14/2024 18:27	23201	HIRU_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
11/14/2024 18:28	43302	WATS_T2	4	4	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/14/2024 18:28	43304	WATS_T2	1	2	1	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
11/14/2024 18:28	65004	NEFF_T2	0	0	0	0	0	0	-1.15	-1.16	1	1	0	600	600	0
11/14/2024 18:28	43301	WATS_T2	1	0	-1	0.1	0	-0.1	-0.83	0.17	1	0	-1	900	0	-900
11/14/2024 18:28	65003	NEFF_T2	4	26	22	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
11/14/2024 18:29	58202	NEWV_T1	0	0	0	0	0	0	-0.76	-0.21	0	0	0	0	0	0
11/14/2024 18:29	54505	ENOL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
11/14/2024 18:29	47203	FAXO_T2	1	1	0	1	0.7	-0.3	-0.39	-0.39	0	0	0	0	0	0
11/14/2024 18:29	65003	NEFF_T2	4	26	22	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
11/14/2024 18:29	54502	ENOL_T2	1	1	0	0.2	0.2	0	-2.01	-2	1	1	0	600	600	0
11/14/2024 18:29	65001	NEFF_T2	0	0	0	0	0	0	0.29	0.25	0	0	0	0	0	0
11/14/2024 18:30	63501	HEID_TBK1-2	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
11/14/2024 18:30	43301	WATS_T2	0	0	0	0	0	0	-0.83	0.17	1	0	-1	900	0	-900
11/14/2024 18:30	43302	WATS_T2	4	4	0	0.75	0.2	-0.55	0	0	0	0	0	0	0	0
11/14/2024 18:30	43304	WATS_T2	1	2	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
11/14/2024 18:31	40101	HUNT_T2	5	2	-3	0.44	0.3	-0.14	-1.06	-1.12	0	0	0	0	0	0
11/14/2024 18:31	45303	WBER_T2	2	3	1	4.95	3.3	-1.65	0	0	0	0	0	0	0	0
11/14/2024 18:31	45501	DERR_T2	2	0	-2	0.5	0	-0.5	1.11	0.97	4	4	0	3600	3600	0
11/14/2024 18:31	45302	WBER_T2	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
11/14/2024 18:32	45501	DERR_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/14/2024 18:32	13101	NHAM_T1	1	0	-1	0.2	0	-0.2	-2.55	-2.46	2	2	0	2400	2400	0
11/14/2024 18:32	65004	NEFF_T2	0	0	0	0	0	0	-1.15	-1.16	1	1	0	600	600	0
11/14/2024 18:32	45502	DERR_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
11/14/2024 18:32	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 18:32	65003	NEFF_T2	4	50	46	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
11/14/2024 18:33	58401	MORO_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/14/2024 18:33	67503	WEWI_T2	1	1	0	6	6.1	0.1	-0.37	-0.37	0	0	0	0	0	0
11/14/2024 18:33	65207	PRIN_T4	3	4	1	1.9	1.3	-0.6	0	0	1	1	0	1200	1200	0
11/14/2024 18:33	58402	MORO_T1	1	16	15	0.1	1.37	1.27	0	0	0	0	0	0	0	0
11/14/2024 18:33	15203	SFAR_T2	0	0	0	0	0	0	-2.6	-2.62	0	0	0	0	0	0
11/14/2024 18:33	65206	PRIN_T4	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/14/2024 18:33	67502	WEWI_T2	1	5	4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
11/14/2024 18:34	67503	WEWI_T2	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
11/14/2024 18:34	43304	WATS_T2	1	2	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
11/14/2024 18:34	43301	WATS_T2	0	0	0	0	0	0	-0.83	0.17	1	0	-1	900	0	-900
11/14/2024 18:34	67502	WEWI_T2	1	5	4	0.1	0.12	0.02	-1.41	-1.38	1	1	0	900	900	0
11/14/2024 18:34	14802	TREI_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
11/14/2024 18:34	52503	PROG_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
11/14/2024 18:34	16302	ALPA_T2	0	0	0	0	0	0	0.68	0.63	0	0	0	0	0	0
11/14/2024 18:34	43302	WATS_T2	4	4	0	0.75	0.2	-0.55	0	0	0	0	0	0	0	0
11/14/2024 18:34	55508	HERS_T2	379	457	78	0.7	0.7	0	-2.64	-2.64	1	1	0	1200	1200	0
11/14/2024 18:34	14801	TREI_T2	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
11/14/2024 18:34	65802	RTWN_T2	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
11/14/2024 18:35	46004	BERW_T2	3	2	-1	0.77	0.3	-0.47	-0.49	-0.46	0	0	0	0	0	0
11/14/2024 18:35	51603	DUKE_T1	0	0	0	0	0	0	-0.11	-0.26	0	0	0	0	0	0
11/14/2024 18:35	10705	CATA_T2	0	0	0	0	0	0	-0.99	-0.99	1	1	0	900	900	0
11/14/2024 18:35	63501	HEID_TBK1-2	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
11/14/2024 18:35	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.31	0	0	0	0	0	0
11/14/2024 18:35	12803	MICK_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
11/14/2024 18:35	12807	MICK_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
11/14/2024 18:35	46803	HEPB_T2	2	7	5	0.15	0.17	0.02	0.5	0.48	0	0	0	0	0	0
11/14/2024 18:35	46801	HEPB_T2	12	17	5	0.28	0.3	0.02	0	0	0	0	0	0	0	0
11/14/2024 18:35	46002	BERW_T2	0	0	0	0	0	0	-1.1	-1.09	1	1	0	900	900	0
11/14/2024 18:35	40101	HUNT_T2	5	2	-3	0.44	0.3	-0.14	-1.06	-1.12	0	0	0	0	0	0
11/14/2024 18:35	12802	MICK_T1	0	0	0	0	0	0	-1.25	-1.27	0	0	0	0	0	0
11/14/2024 18:36	54502	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/14/2024 18:36	15203	SFAR_T2	0	0	0	0	0	0	-2.62	-2.68	0	0	0	0	0	0
11/14/2024 18:36	12807	MICK_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
11/14/2024 18:36	54505	ENOL_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
11/14/2024 18:36	12803	MICK_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
11/14/2024 18:36	54506	ENOL_T2	0	0	0	0	0	0	0.36	0.43	1	0	-1	600	0	-600
11/14/2024 18:36	11301	EMMA_T1	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
11/14/2024 18:36	12801	MICK_T1	0	0	0	0	0	0	-0.27	-0.24	1	1	0	600	600	0
11/14/2024 18:36	45802	HEGI_T2	45	43	-2	0.98	0.89	-0.09	-0.23	-0.26	1	1	0	900	900	0
11/14/2024 18:36	67502	WEWI_T2	1	5	4	0.1	0.12	0.02	-1.38	-1.43	1	1	0	900	900	0
11/14/2024 18:36	10705	CATA_T2	0	0	0	0	0	0	-2.97	-2.8	3	3	0	2700	2700	0
11/14/2024 18:36	67503	WEWI_T2	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
11/14/2024 18:36	16302	ALPA_T2	0	0	0	0	0	0	1.26	1.2	0	0	0	0	0	0
11/14/2024 18:36	52503	PROG_T2	0	0	0	0	0	0	0.31	0.37	0	0	0	0	0	0
11/14/2024 18:37	43302	WATS_T2	4	4	0	0.75	0.2	-0.55	-0.86	-0.84	2	2	0	1800	1800	0
11/14/2024 18:37	45702	LIND_T2	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
11/14/2024 18:37	46802	HEPB_T1	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
11/14/2024 18:37	63601	LETO_T1	0	0	0	0	0	0	1.13	1.02	0	0	0	0	0	0
11/14/2024 18:37	44801	EDAN_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
11/14/2024 18:37	43304	WATS_T2	1	2	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
11/14/2024 18:37	16302	ALPA_T2	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
11/14/2024 18:37	60101	COCA_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
11/14/2024 18:37	45701	LIND_T2	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
11/14/2024 18:37	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 18:38	65702	RVIL_T2	0	1	1	0	0.2	0.2	-1.12	-1.14	1	1	0	600	600	0
11/14/2024 18:38	42701	AUGU_T1	1	1	0	0.2	0.4	0.2	0	0	2	2	0	1800	1800	0
11/14/2024 18:38	64802	MONE_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/14/2024 18:38	67503	WEWI_T2	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
11/14/2024 18:38	51603	DUKE_T1	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
11/14/2024 18:38	10705	CATA_T2	0	0	0	0	0	0	-0.99	-0.93	1	1	0	900	900	0
11/14/2024 18:38	67502	WEWI_T2	1	5	4	0.1	0.12	0.02	-1.38	-1.43	1	1	0	900	900	0
11/14/2024 18:38	57401	SPAN_T1	2	2	0	0.25	0.25	0	-0.85	-0.82	1	1	0	600	600	0
11/14/2024 18:38	63501	HEID_TBK1-2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
11/14/2024 18:38	64801	MONE_T2	1	0	-1	0.3	0	-0.3	-0.01	-0.01	0	0	0	0	0	0
11/14/2024 18:38	46602	LACR_T1	5	7	2	0.18	0.23	0.05	-1.2	-1.26	0	0	0	0	0	0
11/14/2024 18:38	43801	SWIL_T1	15	47	32	0.68	0.34	-0.34	0	0	0	0	0	0	0	0
11/14/2024 18:38	10801	CHHI_T1	0	0	0	0	0	0	-1.51	-1.52	2	2	0	1500	1500	0
11/14/2024 18:38	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 18:38	13303	ORVI_T1	0	0	0	0	0	0	0.82	0.88	0	0	0	0	0	0
11/14/2024 18:39	64801	MONE_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/14/2024 18:39	45802	HEGI_T2	45	43	-2	0.98	0.89	-0.09	0	0	0	0	0	0	0	0
11/14/2024 18:39	67503	WEWI_T2	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
11/14/2024 18:39	10705	CATA_T2	0	0	0	0	0	0	-0.99	-0.93	1	1	0	900	900	0
11/14/2024 18:39	67502	WEWI_T2	1	5	4	0.1	0.12	0.02	-1.38	-1.43	1	1	0	900	900	0
11/14/2024 18:39	64802	MONE_T2	1	0	-1	0.3	0	-0.3	-0.01	-0.01	0	0	0	0	0	0
11/14/2024 18:39	14801	TREI_T2	0	0	0	0	0	0	0.56	0.51	0	0	0	0	0	0
11/14/2024 18:39	12006	HATF_T1	0	0	0	0	0	0	-0.21	-0.16	1	1	0	1200	1200	0
11/14/2024 18:40	65207	PRIN_T4	3	4	1	1.9	1.3	-0.6	0	0	0	0	0	0	0	0
11/14/2024 18:40	45702	LIND_T2	1	1	0	1	1.4	0.4	-0.55	-0.55	0	0	0	0	0	0
11/14/2024 18:40	63501	HEID_TBK1-2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
11/14/2024 18:40	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 18:40	63601	LETO_T1	0	0	0	0	0	0	1.13	1.02	0	0	0	0	0	0
11/14/2024 18:40	17401	FOHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 18:40	43304	WATS_T2	1	2	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
11/14/2024 18:40	43302	WATS_T2	4	4	0	0.75	0.2	-0.55	-0.86	-0.84	2	2	0	1800	1800	0
11/14/2024 18:40	40101	HUNT_T2	5	2	-3	0.44	0.3	-0.14	-1.12	-1.14	0	0	0	0	0	0
11/14/2024 18:40	51602	DUKE_T2	0	0	0	0	0	0	-0.3	-0.26	0	0	0	0	0	0
11/14/2024 18:40	65206	PRIN_T4	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/14/2024 18:40	23403	HONE_T1	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
11/14/2024 18:41	57401	SPAN_T1	2	2	0	0.25	0.25	0	-0.85	-0.82	1	1	0	600	600	0
11/14/2024 18:41	66902	SHIL_T2	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
11/14/2024 18:41	65202	PRIN_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/14/2024 18:41	24105	EHAZ_T1	4	11	7	6.93	6.63	-0.3	0	0	0	0	0	0	0	0
11/14/2024 18:41	42802	SELI_T1	0	0	0	0	0	0	-2.55	-2.55	1	1	0	900	900	0
11/14/2024 18:41	66901	SHIL_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
11/14/2024 18:41	24101	EHAZ_T1	14	25	11	0.45	0.21	-0.24	0	0	0	0	0	0	0	0
11/14/2024 18:41	58402	MORO_T1	1	16	15	0.1	1.37	1.27	0	0	0	0	0	0	0	0
11/14/2024 18:41	15203	SFAR_T2	0	0	0	0	0	0	-2.62	-2.68	0	0	0	0	0	0
11/14/2024 18:41	65205	PRIN_T1	1	2	1	1.4	1.7	0.3	0	0	0	0	0	0	0	0
11/14/2024 18:41	55508	HERS_T2	379	457	78	0.7	0.7	0	-2.64	-2.64	1	1	0	1200	1200	0
11/14/2024 18:41	58401	MORO_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/14/2024 18:41	65802	RTWN_T2	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
11/14/2024 18:41	10705	CATA_T2	0	0	0	0	0	0	-0.99	-0.93	1	1	0	900	900	0
11/14/2024 18:41	24104	EHAZ_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	1200	1200	0
11/14/2024 18:42	43302	WATS_T2	4	4	0	0.75	0.2	-0.55	0	0	0	0	0	0	0	0
11/14/2024 18:42	64802	MONE_T2	1	0	-1	0.3	0	-0.3	-0.01	-0.01	0	0	0	0	0	0
11/14/2024 18:42	54501	ENOL_T2	0	0	0	0	0	0	0.17	0.11	0	0	0	0	0	0
11/14/2024 18:42	15203	SFAR_T2	0	0	0	0	0	0	-2.62	-2.68	0	0	0	0	0	0
11/14/2024 18:42	54505	ENOL_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
11/14/2024 18:42	43304	WATS_T2	1	2	1	1	0.6	-0.4	-0.28	-0.42	0	0	0	0	0	0
11/14/2024 18:42	54502	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/14/2024 18:42	64801	MONE_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/14/2024 18:42	13303	ORVI_T1	0	0	0	0	0	0	0.82	0.88	0	0	0	0	0	0
11/14/2024 18:42	15204	SFAR_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
11/14/2024 18:43	54601	SUMM_T2	9	12	3	0.7	0.81	0.11	-4.24	-4.25	2	2	0	2100	2100	0
11/14/2024 18:43	55507	HERS_T1	6	9	3	0.23	0.28	0.05	-0.01	-0.01	0	0	0	0	0	0
11/14/2024 18:43	65603	QVIL_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
11/14/2024 18:43	53501	EVIL_T2	2	2	0	0.45	0.5	0.05	-0.86	-0.84	1	1	0	600	600	0
11/14/2024 18:43	65601	QVIL_T2	0	0	0	0	0	0	-1.18	-1.2	1	1	0	900	900	0
11/14/2024 18:43	54602	SUMM_T2	10	16	6	0.51	0.77	0.26	0	0	0	0	0	0	0	0
11/14/2024 18:43	46101	MACJ_T2	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
11/14/2024 18:43	46602	LACR_T1	5	7	2	0.18	0.23	0.05	-1.2	-1.26	0	0	0	0	0	0
11/14/2024 18:43	22602	KIMB_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
11/14/2024 18:43	64702	LITI_T2	0	0	0	0	0	0	-0.55	-0.61	0	0	0	0	0	0
11/14/2024 18:44	17401	FOHI_T1	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
11/14/2024 18:44	45702	LIND_T2	1	1	0	1	1.4	0.4	-0.55	-0.55	0	0	0	0	0	0
11/14/2024 18:44	41902	REED_T1	0	0	0	0	0	0	1.07	1.08	0	0	0	0	0	0
11/14/2024 18:44	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 18:44	52404	GRPA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/14/2024 18:44	54505	ENOL_T2	1	1	0	0.2	0.8	0.6	-1.3	-1.29	1	1	0	600	600	0
11/14/2024 18:44	43802	SWIL_T1	0	0	0	0	0	0	-0.18	-0.18	1	1	0	600	600	0
11/14/2024 18:44	42701	AUGU_T1	1	1	0	0.2	0.4	0.2	0	0	2	2	0	1800	1800	0
11/14/2024 18:44	67201	TEHI_T1	0	0	0	0	0	0	-0.17	-0.08	1	1	0	900	900	0
11/14/2024 18:44	54504	ENOL_T2	0	0	0	0	0	0	-1.08	-0.9	1	1	0	600	600	0
11/14/2024 18:44	43801	SWIL_T1	15	47	32	0.68	0.34	-0.34	0	0	0	0	0	0	0	0
11/14/2024 18:44	41901	REED_T1	6	6	0	0.2	0.22	0.02	0	0	0	0	0	0	0	0
11/14/2024 18:44	40101	HUNT_T2	5	2	-3	0.44	0.3	-0.14	-1.12	-1.14	0	0	0	0	0	0
11/14/2024 18:44	60301	TWVA_T2	0	0	0	0	0	0	-6.64	-6.66	4	4	0	3600	3600	0
11/14/2024 18:44	66903	SHIL_T2	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/14/2024 18:44	51603	DUKE_T1	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
11/14/2024 18:44	52403	GRPA_T2	0	0	0	0	0	0	-0.1	-0.16	0	0	0	0	0	0
11/14/2024 18:44	52402	GRPA_T2	3	3	0	0.23	0.57	0.34	0	0	0	0	0	0	0	0
11/14/2024 18:44	57205	ROSS_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
11/14/2024 18:44	54502	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/14/2024 18:45	20603	GRWO_T2	3	0	-3	0.1	0	-0.1	0.39	0.41	0	0	0	0	0	0
11/14/2024 18:45	55001	NEWP_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/14/2024 18:45	55002	NEWP_T1	5	5	0	0.66	0.64	-0.02	-0.25	-0.26	0	0	0	0	0	0
11/14/2024 18:45	10701	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 18:45	10705	CATA_T2	0	0	0	0	0	0	-0.99	-0.93	1	1	0	900	900	0
11/14/2024 18:45	57401	SPAN_T1	2	2	0	0.25	0.15	-0.1	-0.85	-0.82	1	1	0	600	600	0
11/14/2024 18:46	52404	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/14/2024 18:46	54602	SUMM_T2	16	12	-4	0.77	0.73	-0.04	0	0	0	0	0	0	0	0
11/14/2024 18:46	45802	HEGI_T2	42	44	2	0.84	0.88	0.04	-0.26	-0.19	1	1	0	900	900	0
11/14/2024 18:46	10801	CHHI_T1	0	0	0	0	0	0	-1.51	-1.52	2	2	0	1500	1500	0
11/14/2024 18:46	54601	SUMM_T2	12	12	0	0.68	0.78	0.1	-4.24	-4.25	2	2	0	2100	2100	0
11/14/2024 18:46	46004	BERW_T2	2	1	-1	1.1	0.1	-1	-0.46	-0.45	0	0	0	0	0	0
11/14/2024 18:46	52402	GRPA_T2	3	3	0	0.5	0.87	0.37	-0.75	-0.8	0	0	0	0	0	0
11/14/2024 18:46	11301	EMMA_T1	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
11/14/2024 18:47	63501	HEID_TBK1-2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
11/14/2024 18:47	54502	ENOL_T2	0	1	1	0	0.1	0.1	-2	-2	1	1	0	600	600	0
11/14/2024 18:47	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/14/2024 18:47	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 18:47	63801	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 18:47	67503	WEWI_T2	1	1	0	6.1	6	-0.1	-0.37	-0.37	0	0	0	0	0	0
11/14/2024 18:47	67502	WEWI_T2	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0	0
11/14/2024 18:47	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0.75	0.79	0	0	0	0	0	0
11/14/2024 18:47	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/14/2024 18:47	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
11/14/2024 18:48	54503	ENOL_T2	0	0	0	0	0	0	-0.4	-0.41	1	1	0	600	600	0
11/14/2024 18:48	65003	NEFF_T2	26	56	30	0.14	0.15	0.01	-2.1	-2.15	2	2	0	1800	1800	0
11/14/2024 18:48	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 18:48	65702	RVIL_T2	1	1	0	0.2	0.1	-0.1	-1.12	-1.14	1	1	0	600	600	0
11/14/2024 18:48	57401	SPAN_T1	2	2	0	0.25	0.15	-0.1	-0.85	-0.82	1	1	0	600	600	0
11/14/2024 18:48	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/14/2024 18:48	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/14/2024 18:48	57201	ROSS_T1	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
11/14/2024 18:49	42701	AUGU_T1	1	1	0	0.3	0.4	0.1	0	0	2	2	0	1800	1800	0
11/14/2024 18:49	10702	CATA_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
11/14/2024 18:49	51603	DUKE_T1	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
11/14/2024 18:49	10701	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 18:49	65603	QVIL_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
11/14/2024 18:50	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 18:50	57401	SPAN_T1	2	2	0	0.25	0.15	-0.1	-0.85	-0.82	1	1	0	600	600	0
11/14/2024 18:50	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	-1.3	-1.29	1	1	0	600	600	0
11/14/2024 18:50	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/14/2024 18:50	42903	MIDD_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/14/2024 18:50	42902	MIDD_T2	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
11/14/2024 18:50	66903	SHIL_T2	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
11/14/2024 18:50	13303	ORVI_T1	0	0	0	0	0	0	0.82	0.88	0	0	0	0	0	0
11/14/2024 18:50	52502	PROG_T2	0	0	0	0	0	0	0.34	0.37	0	0	0	0	0	0
11/14/2024 18:51	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/14/2024 18:51	21501	CEAV_T2	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
11/14/2024 18:51	54504	ENOL_T2	0	0	0	0	0	0	-1.8	-2.05	2	2	0	1200	1200	0
11/14/2024 18:51	21502	CEAV_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/14/2024 18:51	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/14/2024 18:51	42903	MIDD_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/14/2024 18:51	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 18:52	54602	SUMM_T2	16	12	-4	0.77	0.73	-0.04	0	0	0	0	0	0	0	0
11/14/2024 18:52	54601	SUMM_T2	12	12	0	0.68	0.78	0.1	-4.25	-2.95	2	2	0	2100	2100	0
11/14/2024 18:52	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/14/2024 18:52	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/14/2024 18:52	54504	ENOL_T2	0	0	0	0	0	0	-0.9	-1.03	1	1	0	600	600	0
11/14/2024 18:52	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 18:53	57403	SPAN_T1	0	0	0	0	0	0	0.12	0.06	0	0	0	0	0	0
11/14/2024 18:53	57401	SPAN_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
11/14/2024 18:54	52502	PROG_T2	0	0	0	0	0	0	0.74	0.68	0	0	0	0	0	0
11/14/2024 18:56	46802	HEPB_T1	0	0	0	0	0	0	-0.18	-0.16	0	0	0	0	0	0
11/14/2024 18:56	67202	TEHI_T2	0	0	0	0	0	0	0.45	0.38	1	1	0	900	900	0
11/14/2024 18:57	44302	BEAV_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
11/14/2024 19:14	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/14/2024 19:14	62604	ENGL_T1	0	0	0	0	0	0	0.11	0.16	1	1	0	600	600	0
11/14/2024 19:15	60101	COCA_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
11/14/2024 19:16	54601	SUMM_T2	4	3	-1	0.25	0.3	0.05	-2.95	-2.96	2	2	0	2100	2100	0
11/14/2024 19:16	54602	SUMM_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/14/2024 19:35	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	-1.27	-1.3	1	1	0	600	600	0
11/14/2024 19:35	54502	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/14/2024 19:38	11801	FRAN_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
11/14/2024 19:39	51002	NHAR_T1	1	1	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
11/14/2024 19:39	51004	NHAR_T1	2	4	2	5.5	2.8	-2.7	-0.4	-0.42	0	0	0	0	0	0
11/14/2024 19:41	14801	TREI_T2	0	0	0	0	0	0	0.52	0.56	0	0	0	0	0	0
11/14/2024 19:45	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.34	0	0	0	0	0	0
11/14/2024 19:54	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
11/14/2024 20:40	48901	FOSP_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
11/14/2024 22:07	65602	QVIL_T2	8	5	-3	0.31	0.2	-0.11	0	0	0	0	0	0	0	0
11/14/2024 22:07	65603	QVIL_T2	2	0	-2	0.1	0	-0.1	0.04	0.06	0	0	0	0	0	0
11/14/2024 22:07	65604	QVIL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/14/2024 22:07	65601	QVIL_T2	21	0	-21	0.14	0	-0.14	0	0	0	0	0	0	0	0
11/15/2024 8:15	51602	DUKE_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
11/15/2024 8:15	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/15/2024 8:15	44505	HAMI_T2	0	0	0	0	0	0	0.59	0.63	0	0	0	0	0	0
11/15/2024 8:15	51604	DUKE_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 8:15	44502	HAMI_T2	1	1	0	3	3.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 8:15	54505	ENOL_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
11/15/2024 8:15	54503	ENOL_T2	0	0	0	0	0	0	-0.41	-0.4	1	1	0	600	600	0
11/15/2024 8:16	51602	DUKE_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
11/15/2024 8:16	51604	DUKE_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 8:26	45502	DERR_T2	2	2	0	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
11/15/2024 8:26	45501	DERR_T2	0	0	0	0	0	0	0.65	0.55	2	2	0	1800	1800	0
11/15/2024 8:27	44801	EDAN_T2	0	1	1	0	0	0	-0.43	-0.44	0	0	0	0	0	0
11/15/2024 8:28	45502	DERR_T2	2	2	0	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
11/15/2024 8:28	45501	DERR_T2	0	0	0	0	0	0	0.65	0.55	2	2	0	1800	1800	0
11/15/2024 8:30	45501	DERR_T2	0	0	0	0	0	0	0.65	0.55	2	2	0	1800	1800	0
11/15/2024 8:30	45502	DERR_T2	2	2	0	0.45	0	-0.45	0	0	0	0	0	0	0	0
11/15/2024 8:38	24902	WHHA_T1	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
11/15/2024 8:38	24901	WHHA_T1	0	2	2	0	0.2	0.2	0.54	0.56	0	0	0	0	0	0
11/15/2024 8:39	57205	ROSS_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
11/15/2024 8:41	67505	WEWI_T1	0	0	0	0	0	0	-0.02	-0.01	1	1	0	900	900	0
11/15/2024 8:47	50502	MECH_T1	1	1	0	1.7	2	0.3	0	0	0	0	0	0	0	0
11/15/2024 8:47	50506	MECH_T1	0	0	0	0	0	0	-0.44	0.65	1	0	-1	900	0	-900
11/15/2024 8:47	50501	MECH_T1	4	4	0	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
11/15/2024 8:47	17802	GILB_T1	0	0	0	0	0	0	0.03	0.17	0	0	0	0	0	0
11/15/2024 8:48	50502	MECH_T1	1	1	0	1.7	2	0.3	0	0	0	0	0	0	0	0
11/15/2024 8:48	50501	MECH_T1	4	4	0	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
11/15/2024 8:48	50506	MECH_T1	0	0	0	0	0	0	-0.87	1.3	2	0	-2	1800	0	-1800
11/15/2024 8:50	45701	LIND_T2	0	0	0	0	0	0	-1.65	-1.66	0	0	0	0	0	0
11/15/2024 8:52	44801	EDAN_T2	0	0	0	0	0	0	-0.5	-0.45	0	0	0	0	0	0
11/15/2024 8:57	60201	ATGL_T2	0	0	0	0	0	0	-0.19	-0.12	0	0	0	0	0	0
11/15/2024 9:00	63801	HEMP_T1	0	1	1	0	0.1	0.1	0.14	0.19	0	0	0	0	0	0
11/15/2024 9:00	57404	SPAN_T2	0	0	0	0	0	0	0.47	0.36	0	0	0	0	0	0
11/15/2024 9:00	52404	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/15/2024 9:00	52402	GRPA_T2	4	3	-1	0.53	0.67	0.14	-0.89	-0.92	0	0	0	0	0	0
11/15/2024 9:00	45702	LIND_T2	0	1	1	0	0.3	0.3	-0.55	-0.55	0	0	0	0	0	0
11/15/2024 9:00	63803	HEMP_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
11/15/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
11/15/2024 9:00	52401	GRPA_T2	1	3	2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
11/15/2024 9:00	52403	GRPA_T2	1	2	1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
11/15/2024 9:00	63804	HEMP_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
11/15/2024 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
11/15/2024 9:00	15203	SFAR_T2	6	8	2	0.15	0.2	0.05	-1.37	-1.35	0	0	0	0	0	0
11/15/2024 9:07	52502	PROG_T2	0	0	0	0	0	0	0.36	0.4	0	0	0	0	0	0
11/15/2024 9:08	67503	WEWI_T2	1	1	0	7	8	1	-0.31	-0.36	0	0	0	0	0	0
11/15/2024 9:08	67502	WEWI_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
11/15/2024 9:09	67503	WEWI_T2	1	1	0	7	8	1	0	0	0	0	0	0	0	0
11/15/2024 9:09	67502	WEWI_T2	0	2	2	0	0.35	0.35	-0.13	-0.14	0	0	0	0	0	0
11/15/2024 9:09	15203	SFAR_T2	6	8	2	0.15	0.2	0.05	-1.35	-1.36	0	0	0	0	0	0
11/15/2024 9:10	67502	WEWI_T2	0	2	2	0	0.35	0.35	-0.26	-0.27	0	0	0	0	0	0
11/15/2024 9:10	14801	TREI_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
11/15/2024 9:10	60301	TWVA_T2	0	0	0	0	0	0	-6.24	-6.26	4	4	0	3600	3600	0
11/15/2024 9:10	67503	WEWI_T2	1	1	0	7	8	1	0	0	0	0	0	0	0	0
11/15/2024 9:10	64801	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/15/2024 9:12	44801	EDAN_T2	0	1	1	0	0	0	-0.45	-0.48	0	0	0	0	0	0
11/15/2024 9:13	60201	ATGL_T2	0	0	0	0	0	0	-0.12	-0.09	0	0	0	0	0	0
11/15/2024 9:14	65603	QVIL_T2	0	0	0	0	0	0	0.29	0.54	0	0	0	0	0	0
11/15/2024 9:14	20601	GRWO_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/15/2024 9:14	44801	EDAN_T2	0	1	1	0	0	0	-0.45	-0.48	0	0	0	0	0	0
11/15/2024 9:14	65604	QVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 9:14	20603	GRWO_T2	0	0	0	0	0	0	-0.65	-0.66	1	1	0	900	900	0
11/15/2024 9:14	65602	QVIL_T2	1	15	14	0.3	0.19	-0.11	0	0	0	0	0	0	0	0
11/15/2024 9:15	65601	QVIL_T2	0	1	1	0	0.1	0.1	-1.15	-1.16	1	1	0	900	900	0
11/15/2024 9:15	65602	QVIL_T2	11	13	2	0.18	0.22	0.04	0	0	0	0	0	0	0	0
11/15/2024 9:15	65603	QVIL_T2	0	0	0	0	0	0	0.29	0.54	0	0	0	0	0	0
11/15/2024 9:16	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 9:16	45701	LIND_T2	0	0	0	0	0	0	-1.66	-1.64	0	0	0	0	0	0
11/15/2024 9:16	65603	QVIL_T2	0	0	0	0	0	0	0.29	0.54	0	0	0	0	0	0
11/15/2024 9:16	65602	QVIL_T2	11	13	2	0.18	0.22	0.04	0	0	0	0	0	0	0	0
11/15/2024 9:16	45702	LIND_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/15/2024 9:17	24702	FLND_T2	1	1	0	1.5	0	-1.5	0.38	0.42	1	1	0	1200	1200	0
11/15/2024 9:17	63501	HEID_TBK1-2	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
11/15/2024 9:17	40101	HUNT_T2	4	2	-2	0.35	0.4	0.05	-0.73	-0.74	0	0	0	0	0	0
11/15/2024 9:18	54502	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
11/15/2024 9:18	54506	ENOL_T2	0	0	0	0	0	0	0.35	0.37	1	1	0	600	600	0
11/15/2024 9:18	40101	HUNT_T2	4	2	-2	0.35	0.4	0.05	-0.73	-0.74	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/15/2024 9:18	63501	HEID_TBK1-2	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
11/15/2024 9:18	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
11/15/2024 9:20	63501	HEID_TBK1-2	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
11/15/2024 9:20	46101	MACI_T2	0	0	0	0	0	0	-0.78	-0.76	2	2	0	2400	2400	0
11/15/2024 9:21	55002	NEWP_T1	4	6	2	0.4	0.47	0.07	0	0	0	0	0	0	0	0
11/15/2024 9:21	55001	NEWP_T1	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
11/15/2024 9:21	15203	SFAR_T2	1	30	29	0.2	0.15	-0.05	-1.36	-1.36	0	0	0	0	0	0
11/15/2024 9:22	15203	SFAR_T2	1	30	29	0.2	0.15	-0.05	-1.36	-1.36	0	0	0	0	0	0
11/15/2024 9:23	15203	SFAR_T2	1	30	29	0.2	0.15	-0.05	-1.36	-1.36	0	0	0	0	0	0
11/15/2024 9:24	58001	WCAR_T1	4	4	0	0.18	0.35	0.17	0	0	0	0	0	0	0	0
11/15/2024 9:24	58003	WCAR_T1	1	1	0	0.4	0.6	0.2	0	0	1	1	0	600	600	0
11/15/2024 9:25	50623	CCTY_T2	5	5	0	5.8	5.72	-0.08	0	0	0	0	0	0	0	0
11/15/2024 9:25	50625	CCTY_T2	5	6	1	4.38	3.75	-0.63	0	0	0	0	0	0	0	0
11/15/2024 9:25	64801	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/15/2024 9:25	50624	CCTY_T2	2	2	0	6.55	6.4	-0.15	0	0	0	0	0	0	0	0
11/15/2024 9:25	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 9:25	15203	SFAR_T2	1	30	29	0.2	0.15	-0.05	-1.36	-1.36	0	0	0	0	0	0
11/15/2024 9:29	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 9:29	65602	QVIL_T2	11	13	2	0.18	0.22	0.04	0	0	0	0	0	0	0	0
11/15/2024 9:30	23901	EFMO_T2	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
11/15/2024 9:31	40703	FFLD_T1	4	4	0	0.65	0.73	0.08	0	0	0	0	0	0	0	0
11/15/2024 9:31	40702	FFLD_T1	109	103	-6	0.28	0.26	-0.02	-0.95	-0.89	1	1	0	1200	1200	0
11/15/2024 9:31	40701	FFLD_T1	31	65	34	0.68	0.46	-0.22	0	0	0	0	0	0	0	0
11/15/2024 9:33	47203	FAXO_T2	1	1	0	0.8	0.1	-0.7	-0.4	-0.38	0	0	0	0	0	0
11/15/2024 9:38	67502	WEWI_T2	2	5	3	0.35	0.64	0.29	-0.17	-0.15	0	0	0	0	0	0
11/15/2024 9:38	67503	WEWI_T2	1	1	0	8	7.8	-0.2	0	0	0	0	0	0	0	0
11/15/2024 9:39	67503	WEWI_T2	1	1	0	8	7.8	-0.2	-0.43	-0.41	0	0	0	0	0	0
11/15/2024 9:39	11201	ELHE_T2	0	0	0	0	0	0	-0.1	-0.1	2	2	0	2400	2400	0
11/15/2024 9:39	67502	WEWI_T2	2	5	3	0.35	0.64	0.29	0	0	0	0	0	0	0	0
11/15/2024 9:40	64801	MONE_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/15/2024 9:40	11201	ELHE_T2	0	0	0	0	0	0	-0.1	-0.1	2	2	0	2400	2400	0
11/15/2024 9:40	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/15/2024 9:40	11202	ELHE_T2	0	0	0	0	0	0	0.36	0.45	1	1	0	1200	1200	0
11/15/2024 9:41	11202	ELHE_T2	0	0	0	0	0	0	0.36	0.45	1	1	0	1200	1200	0
11/15/2024 9:41	67502	WEWI_T2	2	5	3	0.35	0.64	0.29	-0.33	-0.3	0	0	0	0	0	0
11/15/2024 9:41	67503	WEWI_T2	1	1	0	8	7.8	-0.2	0	0	0	0	0	0	0	0
11/15/2024 9:41	11201	ELHE_T2	0	0	0	0	0	0	-0.1	-0.1	2	2	0	2400	2400	0
11/15/2024 9:42	67502	WEWI_T2	2	5	3	0.35	0.64	0.29	0	0	0	0	0	0	0	0
11/15/2024 9:42	67503	WEWI_T2	1	1	0	8	7.8	-0.2	-0.43	-0.41	0	0	0	0	0	0
11/15/2024 9:42	11202	ELHE_T2	0	0	0	0	0	0	0.36	0.45	1	1	0	1200	1200	0
11/15/2024 9:42	15203	SFAR_T2	8	31	23	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/15/2024 9:42	15204	SFAR_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
11/15/2024 9:42	45501	DERR_T2	0	0	0	0	0	0	0.56	0.58	2	2	0	1800	1800	0
11/15/2024 9:43	54505	ENOL_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
11/15/2024 9:43	54502	ENOL_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
11/15/2024 9:43	14204	EALL_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
11/15/2024 9:43	54501	ENOL_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
11/15/2024 9:44	45501	DERR_T2	0	0	0	0	0	0	0.56	0.58	2	2	0	1800	1800	0
11/15/2024 9:44	11201	ELHE_T2	0	0	0	0	0	0	-0.1	-0.1	2	2	0	2400	2400	0
11/15/2024 9:45	52401	GRPA_T2	1	3	2	0.1	0.53	0.43	0	0	0	0	0	0	0	0
11/15/2024 9:45	52402	GRPA_T2	3	3	0	0.3	0.63	0.33	0	0	0	0	0	0	0	0
11/15/2024 9:45	52403	GRPA_T2	1	3	2	0.8	0.57	-0.23	-0.15	-0.18	0	0	0	0	0	0
11/15/2024 9:45	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 9:46	67201	TEHI_T1	0	0	0	0	0	0	0.97	0.69	1	1	0	900	900	0
11/15/2024 9:49	63501	HEID_TBK1-2	0	0	0	0	0	0	1.08	1.06	0	0	0	0	0	0
11/15/2024 9:51	64902	MILL_T2	1	3	2	0.6	0.53	-0.07	-0.43	-0.4	0	0	0	0	0	0
11/15/2024 9:53	16302	ALPA_T2	3	0	-3	0.33	0	-0.33	0.69	0.66	0	0	0	0	0	0
11/15/2024 9:53	65402	MARI_T1	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/15/2024 9:53	65401	MARI_T1	2	57	55	0.2	0.12	-0.08	1.88	2.19	0	0	0	0	0	0
11/15/2024 9:54	65402	MARI_T1	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/15/2024 9:54	65401	MARI_T1	2	57	55	0.2	0.12	-0.08	1.41	1.64	0	0	0	0	0	0
11/15/2024 9:55	65402	MARI_T1	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/15/2024 9:55	65401	MARI_T1	2	57	55	0.2	0.12	-0.08	0.47	0.55	0	0	0	0	0	0
11/15/2024 9:56	67605	WARW_T1	29	38	9	0.42	0.41	-0.01	0	0	0	0	0	0	0	0
11/15/2024 9:56	65401	MARI_T1	2	57	55	0.2	0.12	-0.08	0.47	0.55	0	0	0	0	0	0
11/15/2024 9:56	65402	MARI_T1	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/15/2024 9:56	67604	WARW_T1	0	0	0	0	0	0	0.73	0.7	0	0	0	0	0	0
11/15/2024 9:57	10801	CHHI_T1	0	1	1	0	0	0	-1.37	-1.5	2	2	0	1500	1500	0
11/15/2024 9:59	44505	HAMI_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
11/15/2024 9:59	44502	HAMI_T2	1	1	0	2.9	3.1	0.2	0	0	0	0	0	0	0	0
11/15/2024 10:00	44504	HAMI_T2	0	19	19	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 10:00	64904	MILL_T1	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
11/15/2024 10:00	44505	HAMI_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
11/15/2024 10:00	45802	HEGI_T2	4	23	19	0.38	0.57	0.19	1.62	0.82	2	4	2	1800	2400	600
11/15/2024 10:00	44502	HAMI_T2	1	2	1	3.1	3.1	0	0	0	0	0	0	0	0	0
11/15/2024 10:02	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 10:02	44502	HAMI_T2	1	2	1	3.1	3.1	0	0	0	0	0	0	0	0	0
11/15/2024 10:02	44504	HAMI_T2	0	19	19	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 10:07	52403	GRPA_T2	3	7	4	0.5	0.57	0.07	-0.1	-0.18	0	0	0	0	0	0
11/15/2024 10:07	52402	GRPA_T2	3	10	7	0.63	0.43	-0.2	0	0	0	0	0	0	0	0
11/15/2024 10:07	52401	GRPA_T2	3	3	0	1.03	0.35	-0.68	0	0	0	0	0	0	0	0
11/15/2024 10:07	52404	GRPA_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
11/15/2024 10:10	46004	BERW_T2	0	0	0	0	0	0	-0.78	-0.83	0	0	0	0	0	0
11/15/2024 10:13	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
11/15/2024 10:13	54504	ENOL_T2	0	0	0	0	0	0	-1.05	-1.06	1	1	0	600	600	0
11/15/2024 10:13	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
11/15/2024 10:14	10801	CHHI_T1	0	0	0	0	0	0	-1.5	-1.51	2	2	0	1500	1500	0
11/15/2024 10:14	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
11/15/2024 10:14	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	-2.56	-2.6	2	2	0	1200	1200	0
11/15/2024 10:15	66504	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/15/2024 10:15	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/15/2024 10:16	17802	GILB_T1	1	2	1	0.5	0.5	0	0.12	0.15	0	0	0	0	0	0
11/15/2024 10:18	22602	KIMB_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
11/15/2024 10:19	55002	NEWP_T1	4	6	2	0.48	0.8	0.32	-0.23	-0.23	0	0	0	0	0	0
11/15/2024 10:21	63501	HEID_TBK1-2	0	0	0	0	0	0	0.49	0.62	0	0	0	0	0	0
11/15/2024 10:22	13302	ORVI_T2	1	1	0	0.3	0.3	0	1.4	1.39	0	0	0	0	0	0
11/15/2024 10:22	57201	ROSS_T1	0	0	0	0	0	0	-0.51	-0.47	0	0	0	0	0	0
11/15/2024 10:23	54601	SUMM_T2	3	4	1	0.33	0.35	0.02	-2.9	-2.96	2	2	0	2100	2100	0
11/15/2024 10:23	13303	ORVI_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
11/15/2024 10:23	15203	SFAR_T2	32	18	-14	0.21	0.25	0.04	0	0	0	0	0	0	0	0
11/15/2024 10:23	15204	SFAR_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/15/2024 10:25	15204	SFAR_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/15/2024 10:25	15203	SFAR_T2	32	18	-14	0.21	0.25	0.04	-1.34	-1.35	0	0	0	0	0	0
11/15/2024 10:27	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	-1.3	-1.32	1	1	0	600	600	0
11/15/2024 10:27	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
11/15/2024 10:27	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.35	0	0	0	0	0	0
11/15/2024 10:28	15204	SFAR_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/15/2024 10:28	15203	SFAR_T2	32	18	-14	0.21	0.25	0.04	-1.34	-1.35	0	0	0	0	0	0
11/15/2024 10:28	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
11/15/2024 10:28	54503	ENOL_T2	0	0	0	0	0	0	-0.43	-0.45	1	1	0	600	600	0
11/15/2024 10:28	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
11/15/2024 10:28	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 10:28	21206	ECAR_T2	1	1	0	7.9	8.2	0.3	0.23	0.2	0	0	0	0	0	0
11/15/2024 10:29	66504	SMAN_T2	0	1	1	0	0.3	0.3	-0.52	-0.6	0	0	0	0	0	0
11/15/2024 10:29	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/15/2024 10:31	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/15/2024 10:31	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/15/2024 10:31	66504	SMAN_T2	0	2	2	0	0.35	0.35	-1.04	-1.19	0	0	0	0	0	0
11/15/2024 10:33	64303	LINC_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
11/15/2024 10:33	63601	LETO_T1	5	8	3	0.52	0.63	0.11	1.14	0.86	0	0	0	0	0	0
11/15/2024 10:33	63602	LETO_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/15/2024 10:33	64305	LINC_T1	1	2	1	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
11/15/2024 10:34	64305	LINC_T1	1	2	1	0.9	0.8	-0.1	-0.17	-0.14	0	0	0	0	0	0
11/15/2024 10:35	63602	LETO_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/15/2024 10:35	63601	LETO_T1	5	8	3	0.52	0.63	0.11	1.14	0.86	0	0	0	0	0	0
11/15/2024 10:40	15001	BLMO_T1	1	4	3	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/15/2024 10:41	15001	BLMO_T1	1	4	3	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/15/2024 10:42	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/15/2024 10:42	54504	ENOL_T2	0	0	0	0	0	0	-1.06	-1.06	1	1	0	600	600	0
11/15/2024 10:42	54502	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
11/15/2024 10:47	50502	MECH_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
11/15/2024 10:47	50501	MECH_T1	4	4	0	1.2	1.08	-0.12	0	0	0	0	0	0	0	0
11/15/2024 10:47	50506	MECH_T1	0	0	0	0	0	0	-0.39	-0.32	1	1	0	900	900	0
11/15/2024 10:48	50502	MECH_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
11/15/2024 10:48	50506	MECH_T1	0	0	0	0	0	0	-0.39	-0.32	1	1	0	900	900	0
11/15/2024 10:48	50501	MECH_T1	4	4	0	1.2	1.08	-0.12	0	0	0	0	0	0	0	0
11/15/2024 10:49	50502	MECH_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
11/15/2024 10:49	50501	MECH_T1	4	4	0	1.2	1.08	-0.12	0	0	0	0	0	0	0	0
11/15/2024 10:49	52402	GRPA_T2	9	4	-5	0.39	0.88	0.49	0	0	0	0	0	0	0	0
11/15/2024 10:49	52401	GRPA_T2	17	2	-15	0.17	0.45	0.28	0	0	0	0	0	0	0	0
11/15/2024 10:49	50505	MECH_T1	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
11/15/2024 10:49	52404	GRPA_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/15/2024 10:49	52403	GRPA_T2	13	3	-10	0.47	1	0.53	-0.15	-0.15	0	0	0	0	0	0
11/15/2024 10:49	50506	MECH_T1	0	0	0	0	0	0	-0.39	-0.32	1	1	0	900	900	0
11/15/2024 10:51	50502	MECH_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
11/15/2024 10:51	50506	MECH_T1	0	0	0	0	0	0	-0.32	-0.41	1	1	0	900	900	0
11/15/2024 10:51	50501	MECH_T1	4	4	0	1.2	1.08	-0.12	0	0	0	0	0	0	0	0
11/15/2024 10:52	50506	MECH_T1	0	0	0	0	0	0	-0.32	-0.41	1	1	0	900	900	0
11/15/2024 10:52	50502	MECH_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
11/15/2024 10:52	50501	MECH_T1	4	4	0	1.2	1.08	-0.12	0	0	0	0	0	0	0	0
11/15/2024 10:57	46004	BERW_T2	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
11/15/2024 10:57	46002	BERW_T2	0	0	0	0	0	0	-0.83	-0.77	1	1	0	900	900	0
11/15/2024 10:58	60201	ATGL_T2	0	1	1	0	0.3	0.3	0.04	0.05	0	0	0	0	0	0
11/15/2024 10:59	54502	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
11/15/2024 10:59	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	-1.32	-1.3	1	1	0	600	600	0
11/15/2024 11:01	52403	GRPA_T2	3	1	-2	1	0.8	-0.2	0	0	0	0	0	0	0	0
11/15/2024 11:01	52402	GRPA_T2	4	4	0	0.88	0.8	-0.08	0	0	0	0	0	0	0	0
11/15/2024 11:01	52404	GRPA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/15/2024 11:01	52401	GRPA_T2	2	2	0	0.45	0.4	-0.05	-0.59	-0.59	0	0	0	0	0	0
11/15/2024 11:03	64704	LITI_T1	0	0	0	0	0	0	0.05	0.02	1	1	0	600	600	0
11/15/2024 11:04	67201	TEHI_T1	0	0	0	0	0	0	1.13	1.11	1	1	0	900	900	0
11/15/2024 11:06	64902	MILL_T2	7	4	-3	0.56	0.35	-0.21	-0.44	-0.48	0	0	0	0	0	0
11/15/2024 11:06	57205	ROSS_T1	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/15/2024 11:10	67402	WAKE_T2	0	0	0	0	0	0	1.01	1.02	0	0	0	0	0	0
11/15/2024 11:10	67401	WAKE_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/15/2024 11:14	61701	ELIZ_T1	1	1	0	5.5	5.6	0.1	0.26	0.2	0	0	0	0	0	0
11/15/2024 11:24	43304	WATS_T2	0	1	1	0	0	0	-0.29	-0.29	0	0	0	0	0	0
11/15/2024 11:28	60201	ATGL_T2	1	5	4	0.2	0.32	0.12	0.02	-0.09	0	0	0	0	0	0
11/15/2024 11:33	60201	ATGL_T2	1	32	31	0.5	0.17	-0.33	0	0	0	0	0	0	0	0
11/15/2024 11:36	64203	KINZ_T1	0	0	0	0	0	0	0.31	0.18	2	2	0	1800	1800	0
11/15/2024 11:36	64204	KINZ_T1	64	42	-22	0.51	0.46	-0.05	0	0	0	0	0	0	0	0
11/15/2024 11:45	65601	QVIL_T2	10	5	-5	0.32	0.34	0.02	0	0	0	0	0	0	0	0
11/15/2024 11:45	65603	QVIL_T2	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
11/15/2024 11:45	65602	QVIL_T2	18	15	-3	0.27	0.18	-0.09	0	0	0	0	0	0	0	0
11/15/2024 11:51	10105	ALLE_T3	1	5	4	0.9	1	0.1	0	0	0	0	0	0	0	0
11/15/2024 11:51	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 11:51	10101	ALLE_T3	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
11/15/2024 11:51	10205	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 11:56	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.36	0	0	0	0	0	0
11/15/2024 11:56	67401	WAKE_T2	2	6	4	0.1	0.27	0.17	-1.14	-1.16	0	0	0	0	0	0
11/15/2024 11:58	15204	SFAR_T2	1	1	0	0.1	0.1	0	0.08	0.09	0	0	0	0	0	0
11/15/2024 11:58	15203	SFAR_T2	55	88	33	0.22	0.25	0.03	0	0	0	0	0	0	0	0
11/15/2024 12:02	50501	MECH_T1	4	4	0	0.7	1	0.3	0	0	0	0	0	0	0	0
11/15/2024 12:02	50506	MECH_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
11/15/2024 12:02	50502	MECH_T1	1	1	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0
11/15/2024 12:04	64702	LITI_T2	3	17	14	0.1	0.15	0.05	-0.82	-0.77	0	0	0	0	0	0
11/15/2024 12:04	45802	HEGI_T2	2	12	10	0.15	0.29	0.14	0	0	0	0	0	0	0	0
11/15/2024 12:04	25402	LAHA_T2	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
11/15/2024 12:06	65603	QVIL_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
11/15/2024 12:06	65601	QVIL_T2	5	3	-2	0.34	0.23	-0.11	0	0	0	0	0	0	0	0
11/15/2024 12:06	64702	LITI_T2	3	17	14	0.1	0.15	0.05	-0.77	-0.78	0	0	0	0	0	0
11/15/2024 12:06	65602	QVIL_T2	1	43	42	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
11/15/2024 12:08	14801	TREI_T2	8	8	0	0.35	0.39	0.04	0	0	0	0	0	0	0	0
11/15/2024 12:08	52502	PROG_T2	0	0	0	0	0	0	0.68	0.64	0	0	0	0	0	0
11/15/2024 12:08	43801	SWIL_T1	1	2	1	5.1	2.55	-2.55	0	0	0	0	0	0	0	0
11/15/2024 12:08	14802	TREI_T2	5	4	-1	0.28	0.4	0.12	0.64	0.68	0	0	0	0	0	0
11/15/2024 12:08	43802	SWIL_T1	0	0	0	0	0	0	-0.22	-0.25	1	1	0	600	600	0
11/15/2024 12:09	15204	SFAR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/15/2024 12:09	14801	TREI_T2	8	8	0	0.35	0.39	0.04	0	0	0	0	0	0	0	0
11/15/2024 12:09	15203	SFAR_T2	65	98	33	0.24	0.24	0	0	0	0	0	0	0	0	0
11/15/2024 12:09	14802	TREI_T2	5	4	-1	0.28	0.4	0.12	0.96	1.02	0	0	0	0	0	0
11/15/2024 12:10	14801	TREI_T2	8	8	0	0.35	0.39	0.04	0	0	0	0	0	0	0	0
11/15/2024 12:10	52502	PROG_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
11/15/2024 12:10	14802	TREI_T2	5	4	-1	0.28	0.4	0.12	0.32	0.34	0	0	0	0	0	0
11/15/2024 12:10	57203	ROSS_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
11/15/2024 12:12	15203	SFAR_T2	65	98	33	0.24	0.24	0	-1.36	-1.35	0	0	0	0	0	0
11/15/2024 12:12	15204	SFAR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/15/2024 12:15	54505	ENOL_T2	1	1	0	0.7	1	0.3	-1.35	-1.31	1	1	0	600	600	0
11/15/2024 12:15	54502	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 12:16	14204	EALL_T2	0	0	0	0	0	0	0.09	0.14	0	0	0	0	0	0
11/15/2024 12:18	58402	MORO_T1	0	42	42	0	0.36	0.36	0	0	0	0	0	0	0	0
11/15/2024 12:18	58401	MORO_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/15/2024 12:19	58402	MORO_T1	0	42	42	0	0.36	0.36	0	0	0	0	0	0	0	0
11/15/2024 12:19	58401	MORO_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/15/2024 12:20	64302	LINC_T2	0	0	0	0	0	0	1.15	1.07	0	0	0	0	0	0
11/15/2024 12:22	13303	ORVI_T1	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
11/15/2024 12:23	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 12:25	57203	ROSS_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
11/15/2024 12:26	46004	BERW_T2	0	1	1	0	0	0	-0.73	-0.85	0	0	0	0	0	0
11/15/2024 12:26	60101	COCA_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
11/15/2024 12:28	60101	COCA_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
11/15/2024 12:29	60102	COCA_T1	0	0	0	0	0	0	-0.32	-0.06	2	2	0	1200	1200	0
11/15/2024 12:30	60101	COCA_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
11/15/2024 12:31	60102	COCA_T1	0	0	0	0	0	0	-0.32	-0.06	2	2	0	1200	1200	0
11/15/2024 12:32	11303	EMMA_T1	3	4	1	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
11/15/2024 12:32	11301	EMMA_T1	17	0	-17	8.79	0	-8.79	-0.86	-0.89	0	0	0	0	0	0
11/15/2024 12:33	17803	GILB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/15/2024 12:33	13303	ORVI_T1	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
11/15/2024 12:33	17805	GILB_T2	4	5	1	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
11/15/2024 12:33	17804	GILB_T2	3	7	4	0.87	0.43	-0.44	-0.62	-0.62	0	0	0	0	0	0
11/15/2024 12:34	11804	FRAN_T1	4	3	-1	0.55	0.57	0.02	0.88	0.8	0	0	0	0	0	0
11/15/2024 12:34	11805	FRAN_T1	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
11/15/2024 12:34	64903	MILL_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
11/15/2024 12:36	64903	MILL_T2	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
11/15/2024 12:38	55101	WERT_T1	0	0	0	0	0	0	-2.61	-2.62	2	2	0	1200	1200	0
11/15/2024 12:38	54601	SUMM_T2	4	6	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
11/15/2024 12:38	54603	SUMM_T2	0	0	0	0	0	0	-0.51	-0.48	1	1	0	900	900	0
11/15/2024 12:39	15203	SFAR_T2	88	96	8	0.23	0.25	0.02	-1.31	-1.32	0	0	0	0	0	0
11/15/2024 12:39	67501	WEWI_T1	0	0	0	0	0	0	-0.57	-0.54	0	0	0	0	0	0
11/15/2024 12:39	15204	SFAR_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/15/2024 12:40	55101	WERT_T1	0	0	0	0	0	0	-1.3	-1.31	1	1	0	600	600	0
11/15/2024 12:40	64801	MONE_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/15/2024 12:40	64802	MONE_T2	52	72	20	0.22	0.43	0.21	-0.01	-0.01	0	0	0	0	0	0
11/15/2024 12:40	67503	WEWI_T2	1	1	0	8.8	9.4	0.6	0	0	0	0	0	0	0	0
11/15/2024 12:40	67502	WEWI_T2	15	28	13	0.25	0.18	-0.07	-0.25	-0.29	0	0	0	0	0	0
11/15/2024 12:41	67503	WEWI_T2	1	1	0	8.8	9.4	0.6	0	0	0	0	0	0	0	0
11/15/2024 12:41	55101	WERT_T1	0	0	0	0	0	0	-1.3	-1.31	1	1	0	600	600	0
11/15/2024 12:41	67502	WEWI_T2	15	28	13	0.25	0.18	-0.07	-0.25	-0.29	0	0	0	0	0	0
11/15/2024 12:42	54601	SUMM_T2	4	6	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
11/15/2024 12:42	54603	SUMM_T2	0	0	0	0	0	0	-0.51	-0.48	1	1	0	900	900	0
11/15/2024 12:43	67502	WEWI_T2	15	28	13	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
11/15/2024 12:43	67503	WEWI_T2	1	1	0	8.8	9.4	0.6	-0.51	-0.56	0	0	0	0	0	0
11/15/2024 12:44	67501	WEWI_T1	0	0	0	0	0	0	-0.57	-0.54	0	0	0	0	0	0
11/15/2024 12:44	66504	SMAN_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
11/15/2024 12:44	66505	SMAN_T2	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
11/15/2024 12:44	66504	SMAN_T2	0	3	3	0	0.73	0.73	-0.57	-0.58	0	0	0	0	0	0
11/15/2024 12:44	66502	SMAN_T2	0	1	1	0	0.1	0.1	0.07	0.19	0	0	0	0	0	0
11/15/2024 12:45	66504	SMAN_T2	3	1	-2	0.73	0.5	-0.23	0	0	0	0	0	0	0	0
11/15/2024 12:45	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/15/2024 12:45	66501	SMAN_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
11/15/2024 12:45	66505	SMAN_T2	3	3	0	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
11/15/2024 12:49	15204	SFAR_T2	1	0	-1	0.3	0	-0.3	0.09	0.07	0	0	0	0	0	0
11/15/2024 12:49	15203	SFAR_T2	96	2	-94	0.25	0.25	0	0	0	0	0	0	0	0	0
11/15/2024 12:49	12807	MICK_T1	2	1	-1	0.55	1	0.45	0	0	0	0	0	0	0	0
11/15/2024 12:49	12802	MICK_T1	16	4	-12	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
11/15/2024 12:49	12803	MICK_T1	3	2	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
11/15/2024 12:49	12801	MICK_T1	1	1	0	0.8	0.6	-0.2	-0.14	-0.18	1	1	0	600	600	0
11/15/2024 12:51	13704	SCHN_T2	7	5	-2	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
11/15/2024 12:51	13701	SCHN_T2	14	16	2	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
11/15/2024 12:52	13704	SCHN_T2	7	5	-2	0.3	0.26	-0.04	-0.45	-0.42	0	0	0	0	0	0
11/15/2024 12:52	13701	SCHN_T2	14	16	2	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
11/15/2024 12:53	13704	SCHN_T2	7	5	-2	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
11/15/2024 12:53	12802	MICK_T1	16	4	-12	0.17	0.15	-0.02	-1.21	-1.21	0	0	0	0	0	0
11/15/2024 12:53	12801	MICK_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
11/15/2024 12:53	12803	MICK_T1	3	2	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
11/15/2024 12:53	13701	SCHN_T2	14	16	2	0.26	0.25	-0.01	-0.08	-0.1	1	1	0	600	600	0
11/15/2024 12:53	12807	MICK_T1	2	1	-1	0.55	1	0.45	0	0	0	0	0	0	0	0
11/15/2024 12:53	64902	MILL_T2	0	0	0	0	0	0	-0.45	-0.49	0	0	0	0	0	0
11/15/2024 13:02	66501	SMAN_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
11/15/2024 13:02	66504	SMAN_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/15/2024 13:02	22903	HARW_T1	7	24	17	0.26	0.23	-0.03	0.28	0.31	0	0	0	0	0	0
11/15/2024 13:02	66505	SMAN_T2	3	3	0	0.53	0.27	-0.26	0	0	0	0	0	0	0	0
11/15/2024 13:02	66502	SMAN_T2	0	0	0	0	0	0	0.19	0.23	0	0	0	0	0	0
11/15/2024 13:02	26002	WDAM_T1	2	3	1	0.15	0.63	0.48	0	0	0	0	0	0	0	0
11/15/2024 13:08	23403	HONE_T1	1	0	-1	0.3	0	-0.3	-0.68	-0.72	0	0	0	0	0	0
11/15/2024 13:09	13701	SCHN_T2	16	9	-7	0.24	0.28	0.04	0	0	0	0	0	0	0	0
11/15/2024 13:09	13704	SCHN_T2	5	6	1	0.26	0.23	-0.03	-0.42	-0.43	0	0	0	0	0	0
11/15/2024 13:14	67502	WEWI_T2	14	5	-9	0.24	0.28	0.04	-0.21	-0.33	0	0	0	0	0	0
11/15/2024 13:14	67503	WEWI_T2	1	1	0	9.4	9.1	-0.3	0	0	0	0	0	0	0	0
11/15/2024 13:17	60101	COCA_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
11/15/2024 13:21	59301	MCAL_T1	2	2	0	0.8	0.55	-0.25	-1.68	-1.72	1	1	0	600	600	0
11/15/2024 13:22	67401	WAKE_T2	6	43	37	0.17	0.18	0.01	-1.17	-1.17	0	0	0	0	0	0
11/15/2024 13:22	67402	WAKE_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/15/2024 13:23	67402	WAKE_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/15/2024 13:23	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 13:23	67401	WAKE_T2	6	43	37	0.17	0.18	0.01	-1.17	-1.17	0	0	0	0	0	0
11/15/2024 13:23	43801	SWIL_T1	1	1	0	5	5	0	0	0	0	0	0	0	0	0
11/15/2024 13:26	67402	WAKE_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/15/2024 13:26	67401	WAKE_T2	6	43	37	0.17	0.18	0.01	-1.17	-1.17	0	0	0	0	0	0
11/15/2024 13:27	10705	CATA_T2	1	1	0	1.9	1.9	0	0.04	-0.01	0	0	0	0	0	0
11/15/2024 13:27	67502	WEWI_T2	2	31	29	0.35	0.18	-0.17	0	0	0	0	0	0	0	0
11/15/2024 13:27	10702	CATA_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
11/15/2024 13:27	67503	WEWI_T2	1	1	0	9.1	9.1	0	-0.56	-0.6	0	0	0	0	0	0
11/15/2024 13:29	10702	CATA_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
11/15/2024 13:29	10705	CATA_T2	1	1	0	1.9	1.9	0	0.04	-0.01	0	0	0	0	0	0
11/15/2024 13:30	10705	CATA_T2	1	1	0	1.9	1.9	0	0.08	-0.02	0	0	0	0	0	0
11/15/2024 13:30	10702	CATA_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/15/2024 13:31	54502	ENOL_T2	1	1	0	1.1	1.1	0	-2.12	-2.09	1	1	0	600	600	0
11/15/2024 13:31	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
11/15/2024 13:32	67505	WEWI_T1	0	0	0	0	0	0	-0.06	-0.08	1	1	0	900	900	0
11/15/2024 13:40	67402	WAKE_T2	2	2	0	0.1	0.2	0.1	0.17	0.17	0	0	0	0	0	0
11/15/2024 13:40	67401	WAKE_T2	19	67	48	0.15	0.2	0.05	-1.17	-1.18	0	0	0	0	0	0
11/15/2024 13:41	46004	BERW_T2	0	0	0	0	0	0	-0.83	-0.81	0	0	0	0	0	0
11/15/2024 13:42	54502	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
11/15/2024 13:42	60201	ATGL_T2	1	0	-1	0.2	0	-0.2	-0.22	-0.06	0	0	0	0	0	0
11/15/2024 13:42	67401	WAKE_T2	19	67	48	0.15	0.2	0.05	0	0	0	0	0	0	0	0
11/15/2024 13:42	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	-1.34	-1.34	1	1	0	600	600	0
11/15/2024 13:42	67402	WAKE_T2	2	2	0	0.1	0.2	0.1	0.17	0.17	0	0	0	0	0	0
11/15/2024 13:45	62102	ELAN_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
11/15/2024 13:45	62105	ELAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 13:45	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 13:45	62103	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/15/2024 13:47	54502	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
11/15/2024 13:47	54505	ENOL_T2	1	1	0	0.9	0.9	0	-1.34	-1.34	1	1	0	600	600	0
11/15/2024 13:53	40302	TAMA_T3	9	9	0	0.34	0.41	0.07	0	0	0	0	0	0	0	0
11/15/2024 13:53	40301	TAMA_T3	1	1	0	0	0	0	1.56	1.65	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/15/2024 13:56	46001	BERW_T1	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
11/15/2024 13:57	46001	BERW_T1	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
11/15/2024 13:59	60803	BUCK_T1	15	17	2	0.37	0.44	0.07	0	0	0	0	0	0	0	0
11/15/2024 13:59	60801	BUCK_T1	59	51	-8	0.32	0.29	-0.03	-0.4	-0.46	0	0	0	0	0	0
11/15/2024 14:01	17805	GILB_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/15/2024 14:01	17805	GILB_T2	3	3	0	0.2	0.27	0.07	-0.24	-0.22	0	0	0	0	0	0
11/15/2024 14:03	60801	BUCK_T1	51	44	-7	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
11/15/2024 14:03	60803	BUCK_T1	17	17	0	0.43	0.35	-0.08	0	0	0	0	0	0	0	0
11/15/2024 14:04	50502	MECH_T1	1	1	0	2.4	2.5	0.1	-0.07	-0.05	1	1	0	900	900	0
11/15/2024 14:04	17805	GILB_T2	3	3	0	0.2	0.27	0.07	-0.12	-0.11	0	0	0	0	0	0
11/15/2024 14:04	17804	GILB_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/15/2024 14:04	50501	MECH_T1	4	4	0	0.85	1	0.15	0	0	0	0	0	0	0	0
11/15/2024 14:06	67001	STHI_T2	368	593	225	0.14	0.26	0.12	0.1	0.14	0	0	0	0	0	0
11/15/2024 14:06	67002	STHI_T2	32	258	226	0.13	0.17	0.04	0.56	0.56	0	0	0	0	0	0
11/15/2024 14:08	67002	STHI_T2	32	258	226	0.13	0.17	0.04	0.56	0.56	0	0	0	0	0	0
11/15/2024 14:08	67001	STHI_T2	368	593	225	0.14	0.26	0.12	0	0	0	0	0	0	0	0
11/15/2024 14:09	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 14:09	67002	STHI_T2	32	258	226	0.13	0.17	0.04	1.12	1.12	0	0	0	0	0	0
11/15/2024 14:09	67001	STHI_T2	368	593	225	0.14	0.26	0.12	0.05	0.07	0	0	0	0	0	0
11/15/2024 14:10	67002	STHI_T2	32	258	226	0.13	0.17	0.04	1.67	1.68	0	0	0	0	0	0
11/15/2024 14:10	67402	WAKE_T2	2	0	-2	0.15	0	-0.15	0.16	0.15	0	0	0	0	0	0
11/15/2024 14:10	67001	STHI_T2	368	593	225	0.14	0.26	0.12	0	0	0	0	0	0	0	0
11/15/2024 14:10	67401	WAKE_T2	64	41	-23	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
11/15/2024 14:11	67002	STHI_T2	32	258	226	0.13	0.17	0.04	1.67	1.68	0	0	0	0	0	0
11/15/2024 14:11	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 14:11	67001	STHI_T2	368	593	225	0.14	0.26	0.12	0.1	0.14	0	0	0	0	0	0
11/15/2024 14:12	67001	STHI_T2	368	593	225	0.14	0.26	0.12	0	0	0	0	0	0	0	0
11/15/2024 14:12	67002	STHI_T2	32	258	226	0.13	0.17	0.04	1.12	1.12	0	0	0	0	0	0
11/15/2024 14:16	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
11/15/2024 14:16	54504	ENOL_T2	0	0	0	0	0	0	-1.08	-1.09	1	1	0	600	600	0
11/15/2024 14:16	54502	ENOL_T2	1	5	4	1	0.3	-0.7	0	0	0	0	0	0	0	0
11/15/2024 14:19	10101	ALLE_T3	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
11/15/2024 14:19	63601	LETO_T1	6	5	-1	0.77	0.68	-0.09	0	0	0	0	0	0	0	0
11/15/2024 14:19	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 14:19	63602	LETO_T1	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
11/15/2024 14:20	63602	LETO_T1	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
11/15/2024 14:20	63601	LETO_T1	6	5	-1	0.77	0.68	-0.09	0	0	0	0	0	0	0	0
11/15/2024 14:21	24702	FLND_T2	0	0	0	0	0	0	0	0.12	1	1	0	1200	1200	0
11/15/2024 14:22	41301	FISH_T1	1	3	2	2	1.13	-0.87	0.37	0.37	0	0	0	0	0	0
11/15/2024 14:24	41301	FISH_T1	1	3	2	2	1.13	-0.87	0	0	0	0	0	0	0	0
11/15/2024 14:25	41301	FISH_T1	1	3	2	2	1.13	-0.87	0	0	0	0	0	0	0	0
11/15/2024 14:25	41303	FISH_T1	0	0	0	0	0	0	-0.5	-0.54	0	0	0	0	0	0
11/15/2024 14:27	54502	ENOL_T2	1	5	4	1	0.3	-0.7	0	0	0	0	0	0	0	0
11/15/2024 14:27	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	-1.35	-1.35	1	1	0	600	600	0
11/15/2024 14:27	54503	ENOL_T2	0	0	0	0	0	0	-0.44	-0.42	1	1	0	600	600	0
11/15/2024 14:28	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
11/15/2024 14:28	54502	ENOL_T2	1	5	4	1	0.3	-0.7	0	0	0	0	0	0	0	0
11/15/2024 14:28	54503	ENOL_T2	0	0	0	0	0	0	-0.44	-0.42	1	1	0	600	600	0
11/15/2024 14:29	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
11/15/2024 14:29	54503	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 14:29	54502	ENOL_T2	1	5	4	1	0.3	-0.7	0	0	0	0	0	0	0	0
11/15/2024 14:31	26704	HEML_T2	0	8	8	0	0.1	0.1	-0.88	-0.84	1	1	0	1200	1200	0
11/15/2024 14:32	54503	ENOL_T2	0	0	0	0	0	0	-0.88	-0.84	2	2	0	1200	1200	0
11/15/2024 14:32	54501	ENOL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
11/15/2024 14:32	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	-2.7	-2.7	2	2	0	1200	1200	0
11/15/2024 14:32	54502	ENOL_T2	1	9	8	0.8	0.21	-0.59	0	0	0	0	0	0	0	0
11/15/2024 14:33	54502	ENOL_T2	1	9	8	0.8	0.21	-0.59	0	0	0	0	0	0	0	0
11/15/2024 14:33	54501	ENOL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
11/15/2024 14:33	54503	ENOL_T2	0	0	0	0	0	0	-0.44	-0.42	1	1	0	600	600	0
11/15/2024 14:33	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 14:33	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
11/15/2024 14:34	45801	HEGI_T1	0	0	0	0	0	0	-0.27	-0.28	1	1	0	900	900	0
11/15/2024 14:35	64704	LITI_T1	0	0	0	0	0	0	0.03	0.13	1	1	0	600	600	0
11/15/2024 14:36	64704	LITI_T1	0	0	0	0	0	0	0.13	0.66	1	1	0	600	600	0
11/15/2024 14:41	57205	ROSS_T1	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
11/15/2024 14:42	10705	CATA_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
11/15/2024 14:42	10701	CATA_T2	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
11/15/2024 14:42	10702	CATA_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
11/15/2024 14:43	10702	CATA_T2	1	1	0	0.7	0.9	0.2	-0.84	-0.83	0	0	0	0	0	0
11/15/2024 14:43	13101	NHAM_T1	0	0	0	0	0	0	-2.67	-2.72	2	2	0	2400	2400	0
11/15/2024 14:43	10705	CATA_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
11/15/2024 14:44	10702	CATA_T2	1	1	0	0.7	0.9	0.2	-0.84	-0.83	0	0	0	0	0	0
11/15/2024 14:44	10705	CATA_T2	1	1	0	0.9	0.7	-0.2	-0.02	0.01	0	0	0	0	0	0
11/15/2024 14:45	10705	CATA_T2	1	1	0	0.7	0.4	-0.3	-0.02	0.01	0	0	0	0	0	0
11/15/2024 14:45	10702	CATA_T2	1	1	0	0.7	0.9	0.2	-0.84	-0.83	0	0	0	0	0	0
11/15/2024 14:47	59302	MCAL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 14:47	59301	MCAL_T1	5	2	-3	0.9	1.8	0.9	-1.73	-1.75	1	1	0	600	600	0
11/15/2024 14:47	64302	LINC_T2	0	0	0	0	0	0	1.12	1.04	0	0	0	0	0	0
11/15/2024 14:52	54601	SUMM_T2	12	12	0	0.53	0.44	-0.09	-5.89	-6.03	4	4	0	4200	4200	0
11/15/2024 14:52	54602	SUMM_T2	3	16	13	0.1	0.37	0.27	0	0	0	0	0	0	0	0
11/15/2024 14:55	54602	SUMM_T2	3	16	13	0.1	0.37	0.27	0	0	0	0	0	0	0	0
11/15/2024 14:55	54601	SUMM_T2	12	12	0	0.53	0.44	-0.09	-2.95	-3.01	2	2	0	2100	2100	0
11/15/2024 14:56	44302	BEAV_T2	0	0	0	0	0	0	0.24	0.2	0	0	0	0	0	0
11/15/2024 14:56	14802	TREI_T2	3	9	6	0.1	0.13	0.03	0.35	0.28	0	0	0	0	0	0
11/15/2024 14:56	14801	TREI_T2	3	11	8	0.43	0.21	-0.22	0	0	0	0	0	0	0	0
11/15/2024 14:57	44302	BEAV_T2	0	0	0	0	0	0	0.24	0.2	0	0	0	0	0	0
11/15/2024 14:57	14801	TREI_T2	3	11	8	0.43	0.21	-0.22	0.29	0.29	0	0	0	0	0	0
11/15/2024 14:57	14802	TREI_T2	3	9	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/15/2024 15:01	46204	DANV_T2	0	0	0	0	0	0	-0.44	-0.47	1	1	0	1200	1200	0
11/15/2024 15:02	57201	ROSS_T1	0	0	0	0	0	0	-0.51	-0.46	0	0	0	0	0	0
11/15/2024 15:02	46602	LACR_T1	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
11/15/2024 15:03	67203	TEHI_T1	0	0	0	0	0	0	2.25	2.24	2	2	0	1500	1500	0
11/15/2024 15:03	41205	KENM_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	600	600	0
11/15/2024 15:03	67201	TEHI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/15/2024 15:03	41202	KENM_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
11/15/2024 15:03	23401	HONE_T2	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
11/15/2024 15:04	10101	ALLE_T3	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
11/15/2024 15:04	59302	MCAL_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/15/2024 15:04	59301	MCAL_T1	2	7	5	1.8	0.71	-1.09	0	0	0	0	0	0	0	0
11/15/2024 15:04	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 15:06	10101	ALLE_T3	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
11/15/2024 15:06	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 15:13	67201	TEHI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/15/2024 15:13	67203	TEHI_T1	0	0	0	0	0	0	2.24	2.21	2	2	0	1500	1500	0
11/15/2024 15:14	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/15/2024 15:18	10101	ALLE_T3	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
11/15/2024 15:18	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 15:22	27302	PARR_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
11/15/2024 15:28	45303	WBER_T2	1	1	0	9.4	9.4	0	0	0	0	0	0	0	0	0
11/15/2024 15:28	45301	WBER_T2	0	0	0	0	0	0	-0.02	-0.1	1	1	0	1200	1200	0
11/15/2024 15:31	46803	HEPB_T2	0	1	1	0	0.1	0.1	0.46	0.45	0	0	0	0	0	0
11/15/2024 15:31	46801	HEPB_T2	3	10	7	0.9	0.35	-0.55	0	0	0	0	0	0	0	0
11/15/2024 15:32	64701	LITI_T1	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
11/15/2024 15:35	64302	LINC_T2	0	0	0	0	0	0	1.06	1.02	0	0	0	0	0	0
11/15/2024 15:42	43301	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/15/2024 15:42	43302	WATS_T2	0	0	0	0	0	0	0.06	0.01	2	2	0	1800	1800	0
11/15/2024 15:44	12001	HATF_T1	0	0	0	0	0	0	1.46	1.58	1	1	0	600	600	0
11/15/2024 15:47	12006	HATF_T1	0	0	0	0	0	0	-0.01	-0.06	1	1	0	1200	1200	0
11/15/2024 15:48	66302	MCGO_T2	0	0	0	0	0	0	1.61	1.65	1	1	0	600	600	0
11/15/2024 15:48	66303	MCGO_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
11/15/2024 15:48	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
11/15/2024 15:49	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
11/15/2024 15:57	16102	BING_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/15/2024 15:57	16101	BING_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
11/15/2024 16:01	54502	ENOL_T2	6	1	-5	0.25	0.7	0.45	0	0	0	0	0	0	0	0
11/15/2024 16:01	54505	ENOL_T2	1	1	0	1.2	1	-0.2	-1.35	-1.35	1	1	0	600	600	0
11/15/2024 16:01	54501	ENOL_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
11/15/2024 16:02	63803	HEMP_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
11/15/2024 16:02	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
11/15/2024 16:03	67503	WEWI_T2	1	1	0	8.1	8.2	0.1	-0.44	-0.47	0	0	0	0	0	0
11/15/2024 16:04	63501	HEID_TBK1-2	2	1	-1	0.75	0.8	0.05	0.5	0.42	0	0	0	0	0	0
11/15/2024 16:06	63501	HEID_TBK1-2	2	1	-1	0.75	0.8	0.05	0.84	0.96	0	0	0	0	0	0
11/15/2024 16:09	46802	HEPB_T1	1	1	0	1.3	1.2	-0.1	-0.3	-0.27	0	0	0	0	0	0
11/15/2024 16:17	63501	HEID_TBK1-2	1	1	0	0.8	0.6	-0.2	0.42	0.48	0	0	0	0	0	0
11/15/2024 16:27	21501	CEAV_T2	0	0	0	0	0	0	0.81	0.73	0	0	0	0	0	0
11/15/2024 16:54	13704	SCHN_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
11/15/2024 17:54	54505	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/15/2024 17:54	54503	ENOL_T2	0	0	0	0	0	0	-0.41	-0.42	1	1	0	600	600	0
11/15/2024 18:28	46002	BERW_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
11/15/2024 18:30	46001	BERW_T1	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
11/15/2024 18:31	46602	LACR_T1	0	0	0	0	0	0	-1.06	-1.1	0	0	0	0	0	0
11/15/2024 18:34	45501	DERR_T2	0	0	0	0	0	0	0.08	0.24	1	1	0	600	600	0
11/15/2024 18:34	46004	BERW_T2	0	0	0	0	0	0	-0.77	-0.82	0	0	0	0	0	0
11/15/2024 18:37	41301	FISH_T1	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
11/15/2024 18:38	41205	KENM_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	600	600	0
11/15/2024 18:38	26704	HEML_T2	7	0	-7	0.1	0	-0.1	-0.88	-0.86	1	1	0	1200	1200	0
11/15/2024 18:38	45701	LIND_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
11/15/2024 18:38	41202	KENM_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
11/15/2024 18:38	45702	LIND_T2	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
11/15/2024 18:38	45501	DERR_T2	0	0	0	0	0	0	0.24	0.36	1	1	0	600	600	0
11/15/2024 18:38	40101	HUNT_T2	1	1	0	0.1	0	-0.1	-0.84	-0.87	0	0	0	0	0	0
11/15/2024 18:39	47203	FAXO_T2	1	1	0	1	0.6	-0.4	-0.4	-0.39	0	0	0	0	0	0
11/15/2024 18:40	46001	BERW_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
11/15/2024 18:41	59301	MCAL_T1	2	2	0	1.15	1.4	0.25	-1.26	-1.27	0	0	0	0	0	0
11/15/2024 18:41	45801	HEGI_T1	0	0	0	0	0	0	-0.45	-0.5	1	1	0	900	900	0
11/15/2024 18:41	59302	MCAL_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/15/2024 18:42	67002	STHI_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
11/15/2024 18:42	40101	HUNT_T2	1	1	0	0.1	0	-0.1	-0.84	-0.87	0	0	0	0	0	0
11/15/2024 18:42	27302	PARR_T1	0	0	0	0	0	0	0	-0.06	0	0	0	0	0	0
11/15/2024 18:42	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/15/2024 18:43	40702	FFLD_T1	168	208	40	0.45	0.6	0.15	-0.82	-0.89	1	1	0	1200	1200	0
11/15/2024 18:43	43801	SWIL_T1	11	22	11	0.67	0.4	-0.27	0	0	0	0	0	0	0	0
11/15/2024 18:43	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/15/2024 18:43	40703	FFLD_T1	4	4	0	0.88	1	0.12	0	0	0	0	0	0	0	0
11/15/2024 18:43	55002	NEWP_T1	4	5	1	0.83	0.84	0.01	-0.26	-0.26	0	0	0	0	0	0
11/15/2024 18:43	40701	FFLD_T1	76	78	2	0.65	0.8	0.15	0	0	0	0	0	0	0	0
11/15/2024 18:44	44302	BEAV_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
11/15/2024 18:44	17805	GILB_T2	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
11/15/2024 18:44	44801	EDAN_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
11/15/2024 18:44	67002	STHI_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
11/15/2024 18:44	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/15/2024 18:44	46004	BERW_T2	0	0	0	0	0	0	-0.82	-0.85	0	0	0	0	0	0
11/15/2024 18:45	44502	HAMI_T2	1	1	0	4	4	0	0	0	0	0	0	0	0	0
11/15/2024 18:45	67002	STHI_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
11/15/2024 18:45	58003	WCAR_T1	1	1	0	0.5	0.8	0.3	-0.15	-0.09	1	1	0	600	600	0
11/15/2024 18:45	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:45	46004	BERW_T2	0	0	0	0	0	0	-0.82	-0.85	0	0	0	0	0	0
11/15/2024 18:45	44501	HAMI_T2	14	17	3	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
11/15/2024 18:45	58001	WCAR_T1	1	4	3	0.1	0.43	0.33	0	0	0	0	0	0	0	0
11/15/2024 18:45	10702	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/15/2024 18:45	67001	STHI_T2	1	1	0	0.1	0.1	0	0.04	0.05	0	0	0	0	0	0
11/15/2024 18:45	44505	HAMI_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
11/15/2024 18:46	46101	MACI_T2	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
11/15/2024 18:46	44801	EDAN_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
11/15/2024 18:46	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:46	67002	STHI_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
11/15/2024 18:46	46801	HEPB_T2	3	3	0	0.7	0.83	0.13	0	0	0	0	0	0	0	0
11/15/2024 18:46	43304	WATS_T2	0	0	0	0	0	0	-0.27	-0.37	0	0	0	0	0	0
11/15/2024 18:46	65401	MARI_T1	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
11/15/2024 18:46	64903	MILL_T2	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
11/15/2024 18:46	43302	WATS_T2	4	4	0	0.6	0.75	0.15	-0.78	-0.76	2	2	0	1800	1800	0
11/15/2024 18:46	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:46	46803	HEPB_T2	1	2	1	0.2	0.15	-0.05	0.43	0.52	0	0	0	0	0	0
11/15/2024 18:46	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/15/2024 18:47	12807	MICK_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
11/15/2024 18:47	12801	MICK_T1	0	0	0	0	0	0	-0.34	-0.28	1	1	0	600	600	0
11/15/2024 18:47	12803	MICK_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:47	61701	ELIZ_T1	1	1	0	5.1	5.3	0.2	0.26	0.18	0	0	0	0	0	0
11/15/2024 18:47	16101	BING_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
11/15/2024 18:47	67001	STHI_T2	1	1	0	0.1	0.1	0	0.04	0.05	0	0	0	0	0	0
11/15/2024 18:47	12802	MICK_T1	15	13	-2	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
11/15/2024 18:47	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:47	67002	STHI_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
11/15/2024 18:47	16102	BING_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/15/2024 18:47	13303	ORVI_T1	0	0	0	0	0	0	0.83	0.83	0	0	0	0	0	0
11/15/2024 18:47	10101	ALLE_T3	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
11/15/2024 18:47	15203	SFAR_T2	0	0	0	0	0	0	-1.33	-1.35	0	0	0	0	0	0
11/15/2024 18:48	55002	NEWP_T1	4	5	1	0.83	0.86	0.03	0	0	0	0	0	0	0	0
11/15/2024 18:48	25402	LAHA_T2	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
11/15/2024 18:48	63602	LETO_T1	0	0	0	0	0	0	-0.54	-0.6	0	0	0	0	0	0
11/15/2024 18:48	52404	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:48	52403	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:48	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/15/2024 18:48	67002	STHI_T2	0	0	0	0	0	0	1.1	1.08	0	0	0	0	0	0
11/15/2024 18:48	45702	LIND_T2	1	1	0	1.3	1.7	0.4	-0.67	-0.65	0	0	0	0	0	0
11/15/2024 18:48	15203	SFAR_T2	0	0	0	0	0	0	-1.33	-1.35	0	0	0	0	0	0
11/15/2024 18:48	10705	CATA_T2	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
11/15/2024 18:48	66505	SMAN_T2	2	3	1	0.35	0.83	0.48	0	0	0	0	0	0	0	0
11/15/2024 18:48	43801	SWIL_T1	20	23	3	0.43	0.48	0.05	0	0	0	0	0	0	0	0
11/15/2024 18:48	22905	HARW_T1	7	15	8	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
11/15/2024 18:48	52402	GRPA_T2	3	3	0	0.6	0.73	0.13	-0.96	-0.97	0	0	0	0	0	0
11/15/2024 18:48	55001	NEWP_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
11/15/2024 18:48	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
11/15/2024 18:48	63601	LETO_T1	5	5	0	0.24	0.32	0.08	0	0	0	0	0	0	0	0
11/15/2024 18:48	43802	SWIL_T1	0	0	0	0	0	0	-0.23	-0.23	1	1	0	600	600	0
11/15/2024 18:48	11202	ELHE_T2	0	0	0	0	0	0	0.39	0.39	1	1	0	1200	1200	0
11/15/2024 18:48	22903	HARW_T1	6	10	4	0.37	0	-0.37	0.24	0.12	0	0	0	0	0	0
11/15/2024 18:48	22901	HARW_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/15/2024 18:48	10702	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/15/2024 18:49	64903	MILL_T2	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
11/15/2024 18:49	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/15/2024 18:49	67002	STHI_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
11/15/2024 18:49	11301	EMMA_T1	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
11/15/2024 18:49	45801	HEGI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:49	12802	MICK_T1	15	13	-2	0.16	0.15	-0.01	-1.37	-1.33	0	0	0	0	0	0
11/15/2024 18:49	12803	MICK_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:49	12807	MICK_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
11/15/2024 18:49	60102	COCA_T1	0	0	0	0	0	0	-0.48	-1.04	2	2	0	1200	1200	0
11/15/2024 18:49	23403	HONE_T1	0	0	0	0	0	0	-0.75	-0.67	0	0	0	0	0	0
11/15/2024 18:49	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/15/2024 18:49	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:49	65401	MARI_T1	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
11/15/2024 18:49	14802	TREI_T2	0	0	0	0	0	0	0.44	0.39	0	0	0	0	0	0
11/15/2024 18:49	63501	HEID_TBK1-2	1	1	0	0.3	0.7	0.4	0.35	0.4	0	0	0	0	0	0
11/15/2024 18:50	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/15/2024 18:50	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/15/2024 18:50	65601	QVIL_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:50	57203	ROSS_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
11/15/2024 18:50	41301	FISH_T1	1	1	0	2.3	2.3	0	0.35	0.34	0	0	0	0	0	0
11/15/2024 18:50	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:50	54503	ENOL_T2	0	0	0	0	0	0	-0.42	-0.41	1	1	0	600	600	0
11/15/2024 18:50	10101	ALLE_T3	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
11/15/2024 18:50	10705	CATA_T2	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
11/15/2024 18:50	66504	SMAN_T2	2	3	1	0.35	0.83	0.48	0	0	0	0	0	0	0	0
11/15/2024 18:50	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/15/2024 18:50	44505	HAMI_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
11/15/2024 18:50	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:50	65401	MARI_T1	0	0	0	0	0	0	0.64	0.68	0	0	0	0	0	0
11/15/2024 18:50	66504	SMAN_T2	0	0	0	0	0	0	-1.24	-1.23	0	0	0	0	0	0
11/15/2024 18:50	65603	QVIL_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
11/15/2024 18:50	44502	HAMI_T2	1	1	0	4	4	0	0	0	0	0	0	0	0	0
11/15/2024 18:50	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0.41	0.52	0	0	0	0	0	0
11/15/2024 18:50	44501	HAMI_T2	14	17	3	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
11/15/2024 18:50	67203	TEHI_T1	0	0	0	0	0	0	1.99	1.99	1	1	0	900	900	0
11/15/2024 18:50	10702	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/15/2024 18:50	63501	HEID_TBK1-2	1	1	0	0.3	0.7	0.4	0.7	0.8	0	0	0	0	0	0
11/15/2024 18:50	67002	STHI_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
11/15/2024 18:50	64902	MILL_T2	0	0	0	0	0	0	-0.5	-0.43	0	0	0	0	0	0
11/15/2024 18:51	10702	CATA_T2	0	1	1	0	0.4	0.4	-0.96	-0.96	0	0	0	0	0	0
11/15/2024 18:51	13302	ORVI_T2	3	7	4	0.17	0.13	-0.04	1.21	1.13	0	0	0	0	0	0
11/15/2024 18:51	67502	WEWI_T2	0	3	3	0	0.1	0.1	-0.41	-1.38	0	0	0	0	0	0
11/15/2024 18:51	15204	SFAR_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
11/15/2024 18:51	17802	GILB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:51	64302	LINC_T2	0	0	0	0	0	0	1.06	1	0	0	0	0	0	0
11/15/2024 18:51	60101	COCA_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
11/15/2024 18:51	67503	WEWI_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
11/15/2024 18:51	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:51	44801	EDAN_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
11/15/2024 18:52	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:52	50505	MECH_T1	0	0	0	0	0	0	-1.02	-1	0	0	0	0	0	0
11/15/2024 18:52	60801	BUCK_T1	0	5	5	0	0.1	0.1	-0.23	-0.21	0	0	0	0	0	0
11/15/2024 18:52	60803	BUCK_T1	2	6	4	0.15	0.25	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:52	50502	MECH_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:52	44502	HAMI_T2	1	1	0	4	4	0	0	0	0	0	0	0	0	0
11/15/2024 18:52	10101	ALLE_T3	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
11/15/2024 18:52	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:52	10705	CATA_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
11/15/2024 18:52	67501	WEWI_T1	0	0	0	0	0	0	-0.69	-0.61	0	0	0	0	0	0
11/15/2024 18:52	16302	ALPA_T2	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
11/15/2024 18:52	44501	HAMI_T2	14	17	3	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
11/15/2024 18:52	67503	WEWI_T2	1	1	0	6.9	7.1	0.2	-0.55	-0.54	0	0	0	0	0	0
11/15/2024 18:52	54601	SUMM_T2	1	1	0	0.1	0.3	0.2	-2.94	-3.04	2	2	0	2100	2100	0
11/15/2024 18:52	10702	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/15/2024 18:52	65601	QVIL_T2	0	6	6	0	0.1	0.1	-0.21	-1.28	0	1	1	0	900	900
11/15/2024 18:52	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:52	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
11/15/2024 18:52	21206	ECAR_T2	1	1	0	7.4	7.5	0.1	0.09	0.1	0	0	0	0	0	0
11/15/2024 18:52	64702	LITI_T2	0	0	0	0	0	0	-0.75	-0.72	0	0	0	0	0	0
11/15/2024 18:52	63602	LETO_T1	0	0	0	0	0	0	-0.6	-0.53	0	0	0	0	0	0
11/15/2024 18:52	65401	MARI_T1	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
11/15/2024 18:52	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:52	50501	MECH_T1	4	4	0	0.83	0.85	0.02	0	0	0	0	0	0	0	0
11/15/2024 18:52	67502	WEWI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:52	66505	SMAN_T2	2	3	1	0.35	0.83	0.48	0	0	0	0	0	0	0	0
11/15/2024 18:52	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:52	60101	COCA_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
11/15/2024 18:52	63601	LETO_T1	5	5	0	0.24	0.32	0.08	0.93	0.83	0	0	0	0	0	0
11/15/2024 18:52	64801	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/15/2024 18:52	64701	LITI_T1	0	0	0	0	0	0	0.12	0.07	0	0	0	0	0	0
11/15/2024 18:53	14802	TREI_T2	0	0	0	0	0	0	1.17	1.05	0	0	0	0	0	0
11/15/2024 18:53	64801	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/15/2024 18:53	67503	WEWI_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
11/15/2024 18:53	66505	SMAN_T2	2	3	1	0.35	0.83	0.48	0	0	0	0	0	0	0	0
11/15/2024 18:53	45802	HEGI_T2	48	15	-33	2.01	0.44	-1.57	0	0	0	0	0	0	0	0
11/15/2024 18:53	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	-2.62	-2.7	2	2	0	1200	1200	0
11/15/2024 18:53	41303	FISH_T1	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
11/15/2024 18:53	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0.52	0.4	0	0	0	0	0	0
11/15/2024 18:53	55101	WERT_T1	0	0	0	0	0	0	-1.18	-1.2	1	1	0	600	600	0
11/15/2024 18:53	60301	TWVA_T2	0	0	0	0	0	0	-4.17	-4.21	4	4	0	3600	3600	0
11/15/2024 18:53	54506	ENOL_T2	0	0	0	0	0	0	0.45	0.45	1	1	0	600	600	0
11/15/2024 18:53	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:53	50501	MECH_T1	4	4	0	0.83	0.85	0.02	0	0	0	0	0	0	0	0
11/15/2024 18:53	63601	LETO_T1	5	5	0	0.24	0.32	0.08	0.93	0.83	0	0	0	0	0	0
11/15/2024 18:53	15203	SFAR_T2	0	0	0	0	0	0	-1.35	-1.36	0	0	0	0	0	0
11/15/2024 18:53	64902	MILL_T2	0	0	0	0	0	0	-0.43	-0.5	0	0	0	0	0	0
11/15/2024 18:53	55105	WERT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/15/2024 18:53	44302	BEAV_T2	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
11/15/2024 18:53	65401	MARI_T1	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
11/15/2024 18:53	60101	COCA_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
11/15/2024 18:53	67502	WEWI_T2	0	3	3	0	0.1	0.1	-0.82	-2.76	0	2	2	0	1800	1800
11/15/2024 18:53	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/15/2024 18:53	50502	MECH_T1	1	1	0	2	2.1	0.1	-0.21	-0.2	1	1	0	900	900	0
11/15/2024 18:53	41301	FISH_T1	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
11/15/2024 18:53	54601	SUMM_T2	1	1	0	0.1	0.3	0.2	-2.94	-3.04	2	2	0	2100	2100	0
11/15/2024 18:53	67002	STHI_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
11/15/2024 18:53	17805	GILB_T2	0	0	0	0	0	0	-0.16	-0.12	0	0	0	0	0	0
11/15/2024 18:53	64704	LITI_T1	0	0	0	0	0	0	0.27	0.07	1	1	0	600	600	0
11/15/2024 18:53	50506	MECH_T1	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
11/15/2024 18:53	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/15/2024 18:54	10801	CHHI_T1	0	0	0	0	0	0	-1.04	-0.98	1	1	0	900	900	0
11/15/2024 18:54	64305	LINC_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
11/15/2024 18:54	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/15/2024 18:54	67002	STHI_T2	0	0	0	0	0	0	1.08	1.06	0	0	0	0	0	0
11/15/2024 18:54	54501	ENOL_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
11/15/2024 18:54	67503	WEWI_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
11/15/2024 18:54	67502	WEWI_T2	0	3	3	0	0.1	0.1	-0.41	-1.38	0	1	1	0	900	900
11/15/2024 18:54	57205	ROSS_T1	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
11/15/2024 18:54	67203	TEHI_T1	0	0	0	0	0	0	1.99	1.93	1	1	0	900	900	0
11/15/2024 18:54	24701	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:54	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:54	63501	HEID_TBK1-2	1	1	0	0.3	0.7	0.4	0.8	0.65	0	0	0	0	0	0
11/15/2024 18:54	15203	SFAR_T2	0	0	0	0	0	0	-5.4	-5.44	0	0	0	0	0	0
11/15/2024 18:54	57201	ROSS_T1	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
11/15/2024 18:54	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	-1.31	-1.35	1	1	0	600	600	0
11/15/2024 18:54	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/15/2024 18:54	23401	HONE_T2	0	0	0	0	0	0	-0.19	-0.24	0	0	0	0	0	0
11/15/2024 18:54	24702	FLND_T2	0	0	0	0	0	0	-0.14	-0.16	1	1	0	1200	1200	0
11/15/2024 18:55	10705	CATA_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
11/15/2024 18:55	67402	WAKE_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
11/15/2024 18:55	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	-1.31	-1.35	1	1	0	600	600	0
11/15/2024 18:55	54503	ENOL_T2	0	0	0	0	0	0	-0.41	-0.41	1	1	0	600	600	0
11/15/2024 18:55	10702	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/15/2024 18:55	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/15/2024 18:55	45802	HEGI_T2	48	15	-33	2.01	0.44	-1.57	1.25	1.34	0	0	0	0	0	0
11/15/2024 18:55	67604	WARW_T1	0	0	0	0	0	0	0.54	0.49	0	0	0	0	0	0
11/15/2024 18:55	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	-1.21	-1.2	0	0	0	0	0	0
11/15/2024 18:55	13101	NHAM_T1	0	0	0	0	0	0	-3.16	-3.26	2	2	0	2400	2400	0
11/15/2024 18:55	63804	HEMP_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
11/15/2024 18:55	67605	WARW_T1	12	13	1	0.41	0.39	-0.02	0	0	0	0	0	0	0	0
11/15/2024 18:55	67001	STHI_T2	1	1	0	0.1	0.1	0	0.1	0.08	0	0	0	0	0	0
11/15/2024 18:55	63803	HEMP_T1	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
11/15/2024 18:55	60201	ATGL_T2	0	0	0	0	0	0	-0.19	-0.1	0	0	0	0	0	0
11/15/2024 18:55	17805	GILB_T2	0	0	0	0	0	0	-0.16	-0.12	0	0	0	0	0	0
11/15/2024 18:55	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:55	66505	SMAN_T2	2	3	1	0.35	0.83	0.48	0	0	0	0	0	0	0	0
11/15/2024 18:55	66504	SMAN_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
11/15/2024 18:56	67503	WEWI_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
11/15/2024 18:56	66502	SMAN_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
11/15/2024 18:56	52401	GRPA_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
11/15/2024 18:56	10101	ALLE_T3	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
11/15/2024 18:56	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:56	50506	MECH_T1	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
11/15/2024 18:56	12006	HATF_T1	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
11/15/2024 18:56	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:56	50501	MECH_T1	4	4	0	0.83	0.85	0.02	0	0	0	0	0	0	0	0
11/15/2024 18:56	52402	GRPA_T2	3	3	0	0.6	0.73	0.13	0	0	0	0	0	0	0	0
11/15/2024 18:56	10702	CATA_T2	0	1	1	0	0.4	0.4	-0.96	-0.96	0	0	0	0	0	0
11/15/2024 18:56	15204	SFAR_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
11/15/2024 18:56	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:56	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:56	66505	SMAN_T2	2	3	1	0.35	0.83	0.48	0	0	0	0	0	0	0	0
11/15/2024 18:56	50502	MECH_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:56	62102	ELAN_T1	0	0	0	0	0	0	0.54	0.61	0	0	0	0	0	0
11/15/2024 18:56	55105	WERT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/15/2024 18:56	55101	WERT_T1	0	0	0	0	0	0	-1.18	-1.2	1	1	0	600	600	0
11/15/2024 18:56	52403	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:56	11202	ELHE_T2	0	0	0	0	0	0	0.39	0.41	1	1	0	1200	1200	0
11/15/2024 18:56	10705	CATA_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
11/15/2024 18:56	20603	GRWO_T2	6	6	0	0.15	0.22	0.07	0.35	0.35	0	0	0	0	0	0
11/15/2024 18:56	46004	BERW_T2	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
11/15/2024 18:56	52404	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:56	67502	WEWI_T2	0	3	3	0	0.1	0.1	-0.41	-1.38	0	1	1	0	900	900
11/15/2024 18:57	66303	MCGO_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:57	26002	WDAM_T1	2	4	2	0.2	0.25	0.05	0	0	0	0	0	0	0	0
11/15/2024 18:57	59302	MCAL_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
11/15/2024 18:57	67503	WEWI_T2	1	1	0	6.9	7.1	0.2	-0.55	-0.54	0	0	0	0	0	0
11/15/2024 18:57	14204	EALL_T2	0	0	0	0	0	0	-0.04	-0.13	0	0	0	0	0	0
11/15/2024 18:57	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/15/2024 18:57	40301	TAMA_T3	1	1	0	0	0	0	2.31	2.63	1	1	0	1200	1200	0
11/15/2024 18:57	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
11/15/2024 18:57	50624	CCTY_T2	2	2	0	6.35	6.3	-0.05	0	0	0	0	0	0	0	0
11/15/2024 18:57	50502	MECH_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:57	50625	CCTY_T2	5	5	0	3.96	3.94	-0.02	0	0	0	0	0	0	0	0
11/15/2024 18:57	50501	MECH_T1	4	4	0	0.83	0.85	0.02	0	0	0	0	0	0	0	0
11/15/2024 18:57	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/15/2024 18:57	54503	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:57	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:57	11201	ELHE_T2	0	0	0	0	0	0	-0.22	-0.24	2	2	0	2400	2400	0
11/15/2024 18:57	40302	TAMA_T3	6	6	0	0.37	0.38	0.01	0	0	0	0	0	0	0	0
11/15/2024 18:57	50623	CCTY_T2	5	5	0	5.76	5.54	-0.22	0	0	0	0	0	0	0	0
11/15/2024 18:57	50506	MECH_T1	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
11/15/2024 18:57	67505	WEWI_T1	0	0	0	0	0	0	-0.06	-0.11	1	1	0	900	900	0
11/15/2024 18:57	67502	WEWI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:57	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.21	1	1	0	600	600	0
11/15/2024 18:57	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:57	17804	GILB_T2	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
11/15/2024 18:57	59301	MCAL_T1	2	2	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
11/15/2024 18:57	10101	ALLE_T3	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
11/15/2024 18:57	10702	CATA_T2	0	1	1	0	0.4	0.4	-0.96	-0.96	0	0	0	0	0	0
11/15/2024 18:57	54601	SUMM_T2	1	1	0	0.1	0.3	0.2	-2.94	-3.04	2	2	0	2100	2100	0
11/15/2024 18:57	66302	MCGO_T2	0	0	0	0	0	0	-0.95	-0.98	0	0	0	0	0	0
11/15/2024 18:57	60201	ATGL_T2	0	0	0	0	0	0	-0.1	-0.05	0	0	0	0	0	0
11/15/2024 18:57	58402	MORO_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/15/2024 18:57	64704	LITI_T1	0	0	0	0	0	0	0.27	0.07	1	1	0	600	600	0
11/15/2024 18:57	57201	ROSS_T1	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
11/15/2024 18:58	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	-1.31	-1.35	1	1	0	600	600	0
11/15/2024 18:58	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
11/15/2024 18:58	60801	BUCK_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:58	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	-1.21	-1.2	0	0	0	0	0	0
11/15/2024 18:58	54504	ENOL_T2	0	0	0	0	0	0	-1.1	-1.11	1	1	0	600	600	0
11/15/2024 18:58	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/15/2024 18:58	60102	COCA_T1	0	0	0	0	0	0	-1.04	-0.92	2	2	0	1200	1200	0
11/15/2024 18:58	67503	WEWI_T2	1	1	0	6.9	7.1	0.2	0	0	0	0	0	0	0	0
11/15/2024 18:58	60803	BUCK_T1	2	6	4	0.15	0.25	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:58	15203	SFAR_T2	0	0	0	0	0	0	-1.35	-1.36	0	0	0	0	0	0
11/15/2024 18:58	67502	WEWI_T2	0	3	3	0	0.1	0.1	-1.23	-4.14	0	3	3	0	2700	2700
11/15/2024 18:58	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/15/2024 18:58	10801	CHHI_T1	0	0	0	0	0	0	-1.04	-0.98	1	1	0	900	900	0
11/15/2024 18:58	14802	TREI_T2	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
11/15/2024 18:58	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/15/2024 18:59	64702	LITI_T2	0	0	0	0	0	0	-0.75	-0.72	0	0	0	0	0	0
11/15/2024 18:59	52502	PROG_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
11/15/2024 18:59	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	-2.62	-2.7	2	2	0	1200	1200	0
11/15/2024 18:59	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:59	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:59	67503	WEWI_T2	1	1	0	6.9	7.1	0.2	-0.55	-0.54	0	0	0	0	0	0
11/15/2024 18:59	59301	MCAL_T1	2	2	0	1.2	1.4	0.2	-1.27	-1.27	0	0	0	0	0	0
11/15/2024 18:59	60101	COCA_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
11/15/2024 18:59	66505	SMAN_T2	2	3	1	0.35	0.83	0.48	0	0	0	0	0	0	0	0
11/15/2024 18:59	14802	TREI_T2	0	0	0	0	0	0	0.78	0.7	0	0	0	0	0	0
11/15/2024 18:59	14204	EALL_T2	0	0	0	0	0	0	-0.04	-0.13	0	0	0	0	0	0
11/15/2024 18:59	65401	MARI_T1	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
11/15/2024 18:59	13701	SCHN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 18:59	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/15/2024 18:59	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/15/2024 18:59	65601	QVIL_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:59	59302	MCAL_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
11/15/2024 18:59	15203	SFAR_T2	0	0	0	0	0	0	-1.35	-1.36	0	0	0	0	0	0
11/15/2024 18:59	66504	SMAN_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
11/15/2024 18:59	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 18:59	12001	HATF_T1	0	0	0	0	0	0	0.94	1.01	1	1	0	600	600	0
11/15/2024 18:59	67502	WEWI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 19:00	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/15/2024 19:00	54503	ENOL_T2	0	0	0	0	0	0	-0.41	-0.41	1	1	0	600	600	0
11/15/2024 19:00	54502	ENOL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
11/15/2024 19:00	29301	DAPP_T1	1	1	0	9.9	9.8	-0.1	0	0	1	1	0	600	600	0
11/15/2024 19:00	24702	FLND_T2	0	0	0	0	0	0	-0.14	-0.16	1	1	0	1200	1200	0
11/15/2024 19:00	45802	HEGI_T2	11	53	42	0.54	0.9	0.36	1.25	1.34	0	0	0	0	0	0
11/15/2024 19:00	64902	MILL_T2	0	0	0	0	0	0	-0.43	-0.5	0	0	0	0	0	0
11/15/2024 19:00	65401	MARI_T1	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
11/15/2024 19:00	21501	CEAV_T2	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
11/15/2024 19:01	63501	HEID_TBK1-2	1	1	0	0.5	0.7	0.2	0.4	0.32	0	0	0	0	0	0
11/15/2024 19:01	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.21	1	1	0	600	600	0
11/15/2024 19:01	54502	ENOL_T2	1	1	0	0.1	0.5	0.4	-2.03	-1.99	1	1	0	600	600	0
11/15/2024 19:01	54503	ENOL_T2	0	0	0	0	0	0	-0.41	-0.41	1	1	0	600	600	0
11/15/2024 19:01	50502	MECH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
11/15/2024 19:01	58402	MORO_T1	1	0	-1	2.3	0	-2.3	0	0	0	0	0	0	0	0
11/15/2024 19:01	50506	MECH_T1	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
11/15/2024 19:01	55101	WERT_T1	0	0	0	0	0	0	-1.18	-1.2	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/15/2024 19:01	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/15/2024 19:01	13701	SCHN_T2	0	0	0	0	0	0	-0.11	-0.11	1	1	0	600	600	0
11/15/2024 19:01	13303	ORVI_T1	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
11/15/2024 19:01	67401	WAKE_T2	0	2	2	0	0.1	0.1	-1.21	-1.2	0	0	0	0	0	0
11/15/2024 19:01	50501	MECH_T1	4	4	0	0.85	0.63	-0.22	0	0	0	0	0	0	0	0
11/15/2024 19:01	65401	MARI_T1	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
11/15/2024 19:01	13704	SCHN_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
11/15/2024 19:02	64204	KINZ_T1	1	1	0	1.2	0.6	-0.6	0	0	0	0	0	0	0	0
11/15/2024 19:02	50506	MECH_T1	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
11/15/2024 19:02	50502	MECH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
11/15/2024 19:02	64203	KINZ_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
11/15/2024 19:02	52403	GRPA_T2	2	1	-1	0.1	0.1	0	-0.11	-0.14	0	0	0	0	0	0
11/15/2024 19:02	52404	GRPA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/15/2024 19:02	50501	MECH_T1	4	4	0	0.85	0.63	-0.22	0	0	0	0	0	0	0	0
11/15/2024 19:02	11805	FRAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 19:02	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/15/2024 19:02	23901	EFMO_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
11/15/2024 19:02	11202	ELHE_T2	0	0	0	0	0	0	0.39	0.41	1	1	0	1200	1200	0
11/15/2024 19:02	54603	SUMM_T2	0	0	0	0	0	0	-0.54	-0.54	1	1	0	900	900	0
11/15/2024 19:02	11804	FRAN_T1	0	0	0	0	0	0	0.68	0.61	0	0	0	0	0	0
11/15/2024 19:02	54601	SUMM_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/15/2024 19:02	64201	KINZ_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/15/2024 19:02	52402	GRPA_T2	3	3	0	0.73	0.63	-0.1	0	0	0	0	0	0	0	0
11/15/2024 19:02	67401	WAKE_T2	0	2	2	0	0.1	0.1	-1.21	-1.2	0	0	0	0	0	0
11/15/2024 19:02	67501	WEWI_T1	0	0	0	0	0	0	-0.69	-0.61	0	0	0	0	0	0
11/15/2024 19:03	60801	BUCK_T1	0	13	13	0	0.14	0.14	-0.23	-0.21	0	0	0	0	0	0
11/15/2024 19:03	67502	WEWI_T2	0	77	77	0	0.16	0.16	-0.41	-1.38	0	1	1	0	900	900
11/15/2024 19:03	67503	WEWI_T2	1	1	0	6.3	7.1	0.8	0	0	0	0	0	0	0	0
11/15/2024 19:03	52502	PROG_T2	0	0	0	0	0	0	0.7	0.66	0	0	0	0	0	0
11/15/2024 19:03	65603	QVIL_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
11/15/2024 19:03	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 19:03	65602	QVIL_T2	0	6	6	0	0.32	0.32	0	0	0	0	0	0	0	0
11/15/2024 19:03	60803	BUCK_T1	2	9	7	0.1	0.23	0.13	0	0	0	0	0	0	0	0
11/15/2024 19:03	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
11/15/2024 19:03	65601	QVIL_T2	0	15	15	0	0.12	0.12	0	0	0	0	0	0	0	0
11/15/2024 19:04	67401	WAKE_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 19:04	15001	BLMO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 19:04	55101	WERT_T1	0	0	0	0	0	0	-1.18	-1.2	1	1	0	600	600	0
11/15/2024 19:04	10701	CATA_T2	0	0	0	0	0	0	-0.77	-0.8	0	0	0	0	0	0
11/15/2024 19:04	13303	ORVI_T1	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
11/15/2024 19:04	52502	PROG_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
11/15/2024 19:04	67402	WAKE_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
11/15/2024 19:04	10702	CATA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/15/2024 19:04	57203	ROSS_T1	0	1	1	0	0	0	-0.37	-0.39	0	0	0	0	0	0
11/15/2024 19:04	54601	SUMM_T2	1	1	0	0.3	0.4	0.1	-2.94	-3.04	2	2	0	2100	2100	0
11/15/2024 19:04	57205	ROSS_T1	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
11/15/2024 19:05	67401	WAKE_T2	0	2	2	0	0.1	0.1	-1.21	-1.2	0	0	0	0	0	0
11/15/2024 19:05	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	-1.31	-1.35	1	1	0	600	600	0
11/15/2024 19:05	54502	ENOL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
11/15/2024 19:05	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 19:05	54503	ENOL_T2	0	0	0	0	0	0	-0.41	-0.41	1	1	0	600	600	0
11/15/2024 19:06	54504	ENOL_T2	0	0	0	0	0	0	-2.22	-2.2	2	2	0	1200	1200	0
11/15/2024 19:06	54502	ENOL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
11/15/2024 19:06	65602	QVIL_T2	0	6	6	0	0.32	0.32	0	0	0	0	0	0	0	0
11/15/2024 19:06	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/15/2024 19:06	65601	QVIL_T2	0	15	15	0	0.12	0.12	0	0	0	0	0	0	0	0
11/15/2024 19:07	65601	QVIL_T2	0	15	15	0	0.12	0.12	0	0	0	0	0	0	0	0
11/15/2024 19:07	65602	QVIL_T2	0	6	6	0	0.32	0.32	0	0	0	0	0	0	0	0
11/15/2024 19:07	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 19:08	65601	QVIL_T2	0	15	15	0	0.12	0.12	0	0	0	0	0	0	0	0
11/15/2024 19:08	65602	QVIL_T2	0	6	6	0	0.32	0.32	0	0	0	0	0	0	0	0
11/15/2024 19:08	65603	QVIL_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
11/15/2024 19:10	67401	WAKE_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/15/2024 19:10	67402	WAKE_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
11/15/2024 19:13	11201	ELHE_T2	0	0	0	0	0	0	-0.24	-0.21	2	2	0	2400	2400	0
11/15/2024 19:14	11201	ELHE_T2	0	0	0	0	0	0	-0.48	-0.42	4	4	0	4800	4800	0
11/15/2024 19:15	64901	MILL_T1	11	28	17	0.15	0.21	0.06	0	0	0	0	0	0	0	0
11/15/2024 19:15	64904	MILL_T1	0	7	7	0	0.11	0.11	-0.54	-0.56	0	0	0	0	0	0
11/15/2024 19:16	60101	COCA_T1	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
11/15/2024 19:55	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	-1.35	-1.36	1	1	0	600	600	0
11/15/2024 19:55	54502	ENOL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
11/15/2024 20:04	15204	SFAR_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/15/2024 20:04	15203	SFAR_T2	0	0	0	0	0	0	-1.33	-1.32	0	0	0	0	0	0
11/15/2024 20:14	13701	SCHN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2024 20:53	54602	SUMM_T2	7	0	-7	0.14	0	-0.14	0	0	0	0	0	0	0	0
11/15/2024 20:53	54601	SUMM_T2	6	8	2	0.32	0.49	0.17	0	0	0	0	0	0	0	0
11/15/2024 20:53	54603	SUMM_T2	0	0	0	0	0	0	-0.53	-0.52	1	1	0	900	900	0
11/15/2024 22:01	47001	HUGH_T2	8	9	1	3.69	3.32	-0.37	0	0	0	0	0	0	0	0
11/15/2024 22:01	47002	HUGH_T2	5	4	-1	0.22	0.1	-0.12	-0.6	-0.58	0	0	0	0	0	0
11/15/2024 22:28	46802	HEPB_T1	1	1	0	1.3	1.2	-0.1	-0.35	-0.37	0	0	0	0	0	0
11/15/2024 23:16	10702	CATA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/15/2024 23:16	10705	CATA_T2	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
11/16/2024 4:34	47001	HUGH_T2	3	3	0	7.03	7.03	0	0	0	0	0	0	0	0	0
11/16/2024 4:34	47002	HUGH_T2	0	0	0	0	0	0	-0.66	-0.63	0	0	0	0	0	0
11/16/2024 6:15	15203	SFAR_T2	0	0	0	0	0	0	-5.88	-5.88	0	0	0	0	0	0
11/16/2024 6:15	60301	TWVA_T2	0	0	0	0	0	0	-3.1	-3.1	2	2	0	2400	2400	0
11/16/2024 6:15	65702	RVIL_T2	0	0	0	0	0	0	-1.46	-1.54	0	0	0	0	0	0
11/16/2024 6:15	65202	PRIN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/16/2024 6:15	10801	CHHI_T1	0	0	0	0	0	0	-3.25	-3.06	4	4	0	3000	3000	0
11/16/2024 6:15	14801	TREI_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
11/16/2024 6:15	65205	PRIN_T1	2	2	0	5.55	1.5	-4.05	0	0	0	0	0	0	0	0
11/16/2024 6:16	12802	MICK_T1	0	0	0	0	0	0	-1.39	-1.43	0	0	0	0	0	0
11/16/2024 6:16	10702	CATA_T2	0	0	0	0	0	0	-3.09	-3.09	0	0	0	0	0	0
11/16/2024 6:16	65401	MARI_T1	0	0	0	0	0	0	1.68	1.68	0	0	0	0	0	0
11/16/2024 6:16	10701	CATA_T2	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
11/16/2024 6:16	60102	COCA_T1	0	0	0	0	0	0	0.21	0.22	4	4	0	2400	2400	0
11/16/2024 6:16	63601	LETO_T1	5	4	-1	0.72	0.65	-0.07	1.95	1.91	0	0	0	0	0	0
11/16/2024 6:16	63602	LETO_T1	0	0	0	0	0	0	-1.08	-1.01	0	0	0	0	0	0
11/16/2024 6:16	64801	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/16/2024 6:16	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/16/2024 6:16	13701	SCHN_T2	0	0	0	0	0	0	-0.18	-0.16	1	1	0	600	600	0
11/16/2024 6:16	14204	EALL_T2	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
11/16/2024 6:16	65603	QVIL_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
11/16/2024 6:16	66302	MCGO_T2	0	0	0	0	0	0	-0.96	-1.02	0	0	0	0	0	0
11/16/2024 6:16	63804	HEMP_T1	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
11/16/2024 6:16	66505	SMAN_T2	0	3	3	0	0.73	0.73	0	0	0	0	0	0	0	0
11/16/2024 6:16	13303	ORVI_T1	0	0	0	0	0	0	1.66	1.44	0	0	0	0	0	0
11/16/2024 6:16	16302	ALPA_T2	0	0	0	0	0	0	0.47	0.52	0	0	0	0	0	0
11/16/2024 6:16	67401	WAKE_T2	0	0	0	0	0	0	-4.15	-4.08	0	0	0	0	0	0
11/16/2024 6:16	12006	HATF_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
11/16/2024 6:16	66502	SMAN_T2	0	0	0	0	0	0	-0.86	-0.78	0	0	0	0	0	0
11/16/2024 6:16	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/16/2024 6:16	13302	ORVI_T2	0	0	0	0	0	0	1.38	1.25	0	0	0	0	0	0
11/16/2024 6:16	11201	ELHE_T2	0	0	0	0	0	0	1.34	1.25	2	2	0	2400	2400	0
11/16/2024 6:16	67402	WAKE_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
11/16/2024 6:16	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/16/2024 6:16	15203	SFAR_T2	0	0	0	0	0	0	-14.7	-14.7	0	0	0	0	0	0
11/16/2024 6:16	60801	BUCK_T1	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
11/16/2024 6:16	65601	QVIL_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
11/16/2024 6:16	67502	WEWI_T2	0	0	0	0	0	0	-3.76	-11.64	0	8	8	0	7200	7200
11/16/2024 6:16	64903	MILL_T2	0	0	0	0	0	0	0.29	0.23	0	0	0	0	0	0
11/16/2024 6:16	14802	TREI_T2	0	0	0	0	0	0	2.31	2.24	0	0	0	0	0	0
11/16/2024 6:16	11202	ELHE_T2	0	0	0	0	0	0	0.95	0.97	3	3	0	3600	3600	0
11/16/2024 6:16	64902	MILL_T2	0	0	0	0	0	0	-1.5	-1.38	0	0	0	0	0	0
11/16/2024 6:16	11804	FRAN_T1	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
11/16/2024 6:16	12803	MICK_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
11/16/2024 6:16	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/16/2024 6:16	14801	TREI_T2	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
11/16/2024 6:16	15204	SFAR_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
11/16/2024 6:16	67501	WEWI_T1	0	0	0	0	0	0	-1.53	-1.56	0	0	0	0	0	0
11/16/2024 6:16	60101	COCA_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
11/16/2024 6:16	60301	TWVA_T2	0	0	0	0	0	0	-3.1	-3.1	2	2	0	2400	2400	0
11/16/2024 6:16	10801	CHHI_T1	0	0	0	0	0	0	-3.25	-3.06	4	4	0	3000	3000	0
11/16/2024 6:16	10101	ALLE_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
11/16/2024 6:16	63803	HEMP_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
11/16/2024 6:16	16101	BING_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
11/16/2024 6:16	60201	ATGL_T2	0	0	0	0	0	0	1.69	2.19	0	0	0	0	0	0
11/16/2024 6:16	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/16/2024 6:16	10705	CATA_T2	0	0	0	0	0	0	-6.9	-6.84	6	6	0	5400	5400	0
11/16/2024 6:16	12801	MICK_T1	0	0	0	0	0	0	-0.32	-0.34	1	1	0	600	600	0
11/16/2024 6:16	67503	WEWI_T2	1	1	0	6.5	7.2	0.7	-2.16	-1.76	0	0	0	0	0	0
11/16/2024 6:16	12001	HATF_T1	0	0	0	0	0	0	0.62	0.77	1	1	0	600	600	0
11/16/2024 6:16	66303	MCGO_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/16/2024 6:16	11301	EMMA_T1	0	0	0	0	0	0	-0.97	-1	0	0	0	0	0	0
11/16/2024 6:16	66504	SMAN_T2	0	0	0	0	0	0	-2.7	-2.61	0	0	0	0	0	0
11/16/2024 6:16	13704	SCHN_T2	0	0	0	0	0	0	-0.92	-0.88	0	0	0	0	0	0
11/16/2024 6:17	60101	COCA_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
11/16/2024 6:17	50501	MECH_T1	4	4	0	0.78	0.45	-0.33	0	0	0	0	0	0	0	0
11/16/2024 6:17	11201	ELHE_T2	0	0	0	0	0	0	0.67	0.62	1	1	0	1200	1200	0
11/16/2024 6:17	62102	ELAN_T1	0	0	0	0	0	0	0.59	0.49	0	0	0	0	0	0
11/16/2024 6:17	50506	MECH_T1	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
11/16/2024 6:17	55101	WERT_T1	0	0	0	0	0	0	-2.54	-2.44	2	2	0	1200	1200	0
11/16/2024 6:17	57205	ROSS_T1	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
11/16/2024 6:17	50502	MECH_T1	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
11/16/2024 6:19	64903	MILL_T2	0	0	0	0	0	0	0.29	0.23	0	0	0	0	0	0
11/16/2024 6:33	15204	SFAR_T2	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
11/16/2024 6:46	67502	WEWI_T2	0	0	0	0	0	0	-1.48	-1.43	1	1	0	900	900	0
11/16/2024 6:46	67503	WEWI_T2	1	1	0	7.2	6.9	-0.3	0	0	0	0	0	0	0	0
11/16/2024 7:01	67402	WAKE_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
11/16/2024 9:00	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/16/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
11/16/2024 9:07	67503	WEWI_T2	1	1	0	6.7	7.2	0.5	-0.52	-0.45	0	0	0	0	0	0
11/16/2024 9:07	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/16/2024 13:59	23403	HONE_T1	6	24	18	0.12	0.11	-0.01	-0.8	-0.74	0	0	0	0	0	0
11/16/2024 13:59	23401	HONE_T2	2	2	0	0.3	0.1	-0.2	-0.19	-0.17	0	0	0	0	0	0
11/16/2024 18:48	23403	HONE_T1	0	0	0	0	0	0	-0.75	-0.79	0	0	0	0	0	0
11/16/2024 18:53	23401	HONE_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
11/17/2024 8:17	15203	SFAR_T2	0	3	3	0	0.3	0.3	-1.4	-1.42	0	0	0	0	0	0
11/17/2024 8:21	58705	ROSE_T2	5	5	0	1.5	1.68	0.18	0	0	0	0	0	0	0	0
11/17/2024 8:21	61302	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/17/2024 8:21	58706	ROSE_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
11/17/2024 8:21	61303	EARL_T1	0	0	0	0	0	0	0	-0.05	0	0	0	0	0	0
11/17/2024 8:21	58701	ROSE_T2	0	0	0	0	0	0	-0.31	-0.3	1	1	0	600	600	0
11/17/2024 8:31	23901	EFMO_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
11/17/2024 8:31	45501	DERR_T2	1	0	-1	0.3	0	-0.3	0.32	0.36	1	1	0	600	600	0
11/17/2024 8:36	61303	EARL_T1	0	0	0	0	0	0	-0.05	0	0	0	0	0	0	0
11/17/2024 8:36	61302	EARL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/17/2024 8:41	45701	LIND_T2	0	0	0	0	0	0	-1.75	0	0	0	0	0	0	0
11/17/2024 8:43	25402	LAHA_T2	0	0	0	0	0	0	-0.63	-0.59	0	0	0	0	0	0
11/17/2024 8:46	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 8:47	24902	WHHA_T1	2	11	9	0.5	0.63	0.13	0.71	0	0	0	0	0	0	0
11/17/2024 8:53	15203	SFAR_T2	3	3	0	0.3	0.5	0.2	0	-1.38	0	0	0	0	0	0
11/17/2024 8:58	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 9:00	20603	GRWO_T2	0	1	1	0	0	0	0	0.36	0	0	0	0	0	0
11/17/2024 9:03	22405	MORG_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
11/17/2024 9:04	67402	WAKE_T2	0	0	0	0	0	0	0	-0.44	1	1	0	600	600	0
11/17/2024 9:05	43304	WATS_T2	0	0	0	0	0	0	0.23	0	0	0	0	0	0	0
11/17/2024 9:06	15203	SFAR_T2	2	5	3	0.35	0.38	0.03	0	0	0	0	0	0	0	0
11/17/2024 9:06	15204	SFAR_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
11/17/2024 9:09	45501	DERR_T2	0	0	0	0	0	0	-0.96	-1.15	4	4	0	3600	3600	0
11/17/2024 9:10	43304	WATS_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
11/17/2024 9:13	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/17/2024 9:13	64204	KINZ_T1	1	2	1	1.2	0.5	-0.7	0	0	0	0	0	0	0	0
11/17/2024 9:13	64201	KINZ_T1	1	1	0	0.5	0.5	0	-0.59	-0.6	2	2	0	1200	1200	0
11/17/2024 9:14	15203	SFAR_T2	2	5	3	0.35	0.38	0.03	-1.38	-1.36	0	0	0	0	0	0
11/17/2024 9:15	65602	QVIL_T2	2	6	4	0.15	0.17	0.02	0	0	0	0	0	0	0	0
11/17/2024 9:15	65601	QVIL_T2	0	0	0	0	0	0	-1.16	-1.2	1	1	0	900	900	0
11/17/2024 9:17	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 9:17	65602	QVIL_T2	2	6	4	0.15	0.17	0.02	0	0	0	0	0	0	0	0
11/17/2024 9:19	24902	WHHA_T1	10	5	-5	0.86	0.4	-0.46	0.73	0.73	0	0	0	0	0	0
11/17/2024 9:20	60101	COCA_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
11/17/2024 9:22	24902	WHHA_T1	10	5	-5	0.86	0.4	-0.46	0.73	0.76	0	0	0	0	0	0
11/17/2024 9:22	60102	COCA_T1	0	0	0	0	0	0	-0.48	-0.44	2	2	0	1200	1200	0
11/17/2024 9:23	43304	WATS_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
11/17/2024 9:24	45701	LIND_T2	0	0	0	0	0	0	-1.74	-1.75	0	0	0	0	0	0
11/17/2024 9:26	45702	LIND_T2	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
11/17/2024 9:35	15203	SFAR_T2	5	4	-1	0.36	0.43	0.07	-1.36	-1.35	0	0	0	0	0	0
11/17/2024 9:36	15203	SFAR_T2	5	4	-1	0.36	0.43	0.07	-1.35	-1.35	0	0	0	0	0	0
11/17/2024 9:38	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 9:38	44301	BEAV_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
11/17/2024 9:40	15203	SFAR_T2	5	4	-1	0.36	0.43	0.07	-1.35	-1.35	0	0	0	0	0	0
11/17/2024 9:50	60801	BUCK_T1	0	1	1	0	0.1	0.1	-0.24	-0.28	0	0	0	0	0	0
11/17/2024 9:52	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 9:53	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 9:54	40101	HUNT_T2	25	5	-20	0.41	0.6	0.19	-0.88	-0.9	0	0	0	0	0	0
11/17/2024 9:54	45501	DERR_T2	1	1	0	0.1	0.1	0	-0.6	-0.67	2	2	0	1800	1800	0
11/17/2024 9:55	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 9:56	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 9:56	40101	HUNT_T2	25	5	-20	0.41	0.6	0.19	-0.88	-0.9	0	0	0	0	0	0
11/17/2024 9:57	63801	HEMP_T1	0	0	0	0	0	0	-0.42	-0.36	0	0	0	0	0	0
11/17/2024 9:57	63804	HEMP_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
11/17/2024 9:57	63802	HEMP_T1	0	1	1	0	0	0	0.1	0.08	0	0	0	0	0	0
11/17/2024 9:57	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 9:58	40101	HUNT_T2	25	5	-20	0.41	0.6	0.19	-0.88	-0.9	0	0	0	0	0	0
11/17/2024 9:58	63802	HEMP_T1	0	1	1	0	0	0.1	0.08	0	0	0	0	0	0	0
11/17/2024 9:58	63804	HEMP_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
11/17/2024 10:01	65502	MOJO_T2	0	0	0	0	0	0	-1.01	-0.98	0	0	0	0	0	0
11/17/2024 10:01	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 10:01	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	1	1	0	1200	1200	0
11/17/2024 10:04	46004	BERW_T2	0	0	0	0	0	0	-0.86	-0.85	0	0	0	0	0	0
11/17/2024 10:07	44801	EDAN_T2	0	1	1	0	0	0	-0.46	-0.5	0	0	0	0	0	0
11/17/2024 10:07	10801	CHHI_T1	0	6	6	0	0.4	0.4	-1.66	-1.67	2	2	0	1500	1500	0
11/17/2024 10:09	10801	CHHI_T1	0	6	6	0	0.4	0.4	-1.66	-1.67	2	2	0	1500	1500	0
11/17/2024 10:11	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
11/17/2024 10:11	44801	EDAN_T2	0	1	1	0	0	0	-0.46	-0.5	0	0	0	0	0	0
11/17/2024 10:13	45702	LIND_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
11/17/2024 10:15	58201	NEWV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/17/2024 10:15	65602	QVIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/17/2024 10:15	65601	QVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/17/2024 10:15	65603	QVIL_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
11/17/2024 10:15	58202	NEWV_T1	7	8	1	0.29	0.44	0.15	-0.17	-0.2	0	0	0	0	0	0
11/17/2024 10:17	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 10:17	65601	QVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/17/2024 10:17	65602	QVIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/17/2024 10:19	44801	EDAN_T2	1	0	-1	0.1	0	-0.1	-0.46	-0.5	0	0	0	0	0	0
11/17/2024 10:19	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 10:23	63501	HEID_TBK1-2	1	2	1	0.3	0.45	0.15	0.8	0.81	0	0	0	0	0	0
11/17/2024 10:24	45501	DERR_T2	0	0	0	0	0	0	-0.72	-0.74	2	2	0	1800	1800	0
11/17/2024 10:24	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 10:24	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/17/2024 10:25	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 10:25	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/17/2024 10:28	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/17/2024 10:28	52402	GRPA_T2	0	0	0	0	0	0	-0.94	-0.84	0	0	0	0	0	0
11/17/2024 10:28	52403	GRPA_T2	5	8	3	0.34	0.3	-0.04	0	0	0	0	0	0	0	0
11/17/2024 10:28	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 10:28	45501	DERR_T2	0	0	0	0	0	0	-0.72	-0.74	2	2	0	1800	1800	0
11/17/2024 10:28	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 10:32	64402	LAND_T2	0	0	0	0	0	0	-0.67	-0.67	1	1	0	600	600	0
11/17/2024 10:34	49803	UNIV_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
11/17/2024 10:34	49804	UNIV_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
11/17/2024 10:35	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 10:37	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 10:43	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 10:43	65503	MOJO_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
11/17/2024 10:46	14603	SWHI_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/17/2024 10:48	67503	WEWI_T2	1	1	0	6.5	6.8	0.3	0	0	0	0	0	0	0	0
11/17/2024 10:48	67502	WEWI_T2	1	3	2	0.5	0.53	0.03	-1.75	-1.77	1	1	0	900	900	0
11/17/2024 10:51	67502	WEWI_T2	1	3	2	0.5	0.53	0.03	-1.77	-1.79	1	1	0	900	900	0
11/17/2024 10:51	67503	WEWI_T2	1	1	0	6.5	6.8	0.3	0	0	0	0	0	0	0	0
11/17/2024 10:54	45501	DERR_T2	0	0	0	0	0	0	-1.83	-2	4	4	0	3600	3600	0
11/17/2024 10:55	40101	HUNT_T2	14	25	11	0.47	1.08	0.61	-0.94	-0.98	0	0	0	0	0	0
11/17/2024 10:55	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 10:56	61703	ELIZ_T1	2	4	2	0.2	0.38	0.18	0	0	0	0	0	0	0	0
11/17/2024 10:56	61701	ELIZ_T1	2	2	0	3.05	3.15	0.1	-0.36	-0.39	0	0	0	0	0	0
11/17/2024 10:58	63601	LETO_T1	5	4	-1	0.26	0.2	-0.06	0.89	0.96	0	0	0	0	0	0
11/17/2024 10:59	13303	ORVI_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
11/17/2024 10:59	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 11:00	47101	MARL_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
11/17/2024 11:00	47104	MARL_T1	0	0	0	0	0	0	-0.92	-0.92	0	0	0	0	0	0
11/17/2024 11:01	54601	SUMM_T2	6	6	0	0.3	0.37	0.07	-4.31	-4.28	2	2	0	2100	2100	0
11/17/2024 11:01	47103	MARL_T2	2	2	0	0.15	0.25	0.1	0.63	0.63	0	0	0	0	0	0
11/17/2024 11:01	54602	SUMM_T2	5	0	-5	0.16	0	-0.16	0	0	0	0	0	0	0	0
11/17/2024 11:04	24902	WHHA_T1	4	6	2	0.43	0.2	-0.23	0.72	0.74	0	0	0	0	0	0
11/17/2024 11:07	60101	COCA_T1	0	0	0	0	0	0	0.22	0.17	0	0	0	0	0	0
11/17/2024 11:07	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 11:09	60101	COCA_T1	0	0	0	0	0	0	0.22	0.17	0	0	0	0	0	0
11/17/2024 11:13	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.27	1	1	0	600	600	0
11/17/2024 11:14	65602	QVIL_T2	3	8	5	0.13	0.2	0.07	0	0	0	0	0	0	0	0
11/17/2024 11:14	65601	QVIL_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
11/17/2024 11:14	65603	QVIL_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
11/17/2024 11:15	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.27	1	1	0	600	600	0
11/17/2024 11:15	58402	MORO_T1	0	0	0	0	0	0	0.11	0.14	1	1	0	900	900	0
11/17/2024 11:24	41801	GOCI_T2	1	3	2	0.4	0.4	0	0	0	0	0	0	0	0	0
11/17/2024 11:24	54505	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/17/2024 11:24	54501	ENOL_T2	0	0	0	0	0	0	-0.54	-0.55	1	1	0	600	600	0
11/17/2024 11:26	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 11:33	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 11:37	63501	HEID_TBK1-2	2	1	-1	0.6	1	0.4	0.46	0.4	0	0	0	0	0	0
11/17/2024 11:38	54506	ENOL_T2	0	0	0	0	0	0	0.31	0.25	1	1	0	600	600	0
11/17/2024 11:38	44801	EDAN_T2	2	1	-1	0.2	0.1	-0.1	-0.49	-0.5	0	0	0	0	0	0
11/17/2024 11:40	45501	DERR_T2	0	0	0	0	0	0	-1.02	-0.98	2	2	0	1800	1800	0
11/17/2024 11:41	63501	HEID_TBK1-2	2	1	-1	0.6	1	0.4	0.46	0.4	0	0	0	0	0	0
11/17/2024 11:42	63501	HEID_TBK1-2	2	1	-1	0.6	1	0.4	0.46	0.4	0	0	0	0	0	0
11/17/2024 11:43	60101	COCA_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
11/17/2024 11:46	60301	TWVA_T2	0	0	0	0	0	0	-2.71	-2.71	2	2	0	1200	1200	0
11/17/2024 11:54	24102	EHAZ_T1	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
11/17/2024 11:54	24105	EHAZ_T1	4	4	0	6.7	6.23	-0.47	-2.13	-2.05	1	1	0	1200	1200	0
11/17/2024 11:54	24101	EHAZ_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
11/17/2024 11:55	44505	HAMI_T2	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
11/17/2024 11:55	44502	HAMI_T2	1	1	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
11/17/2024 11:56	64403	LAND_T1	0	0	0	0	0	0	-2.06	-2.06	1	1	0	900	900	0
11/17/2024 11:56	20603	GRWO_T2	0	3	3	0	0.33	0.33	0.34	0.36	0	0	0	0	0	0
11/17/2024 11:56	20601	GRWO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/17/2024 11:57	44502	HAMI_T2	1	1	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
11/17/2024 11:57	44505	HAMI_T2	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
11/17/2024 12:00	66504	SMAN_T2	0	2	2	0	0.35	0.35	-0.69	-0.69	0	0	0	0	0	0
11/17/2024 12:01	65602	QVIL_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
11/17/2024 12:01	66504	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
11/17/2024 12:01	65601	QVIL_T2	1	6	5	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
11/17/2024 12:01	66502	SMAN_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
11/17/2024 12:01	65603	QVIL_T2	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
11/17/2024 12:02	66504	SMAN_T2	0	2	2	0	0.35	0.35	-1.38	-1.38	0	0	0	0	0	0
11/17/2024 12:07	60803	BUCK_T1	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/17/2024 12:07	60801	BUCK_T1	1	1	0	0.3	0.2	-0.1	-0.23	-0.23	0	0	0	0	0	0
11/17/2024 12:09	45802	HEGI_T2	10	27	17	0.26	0.45	0.19	1.77	1.61	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/17/2024 12:10	65401	MARI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/17/2024 12:10	63804	HEMP_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
11/17/2024 12:10	65402	MARI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/17/2024 12:10	63801	HEMP_T1	1	3	2	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
11/17/2024 12:10	63802	HEMP_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
11/17/2024 12:11	63801	HEMP_T1	1	3	2	0.4	0.23	-0.17	-0.36	-0.37	0	0	0	0	0	0
11/17/2024 12:11	40602	PIGR_T1	1	1	0	2.9	2.3	-0.6	0	0	0	0	0	0	0	0
11/17/2024 12:11	63804	HEMP_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
11/17/2024 12:11	67604	WARW_T1	0	0	0	0	0	0	-0.04	-0.01	0	0	0	0	0	0
11/17/2024 12:11	67605	WARW_T1	19	18	-1	0.56	0.49	-0.07	0	0	0	0	0	0	0	0
11/17/2024 12:13	63804	HEMP_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
11/17/2024 12:13	63801	HEMP_T1	1	3	2	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
11/17/2024 12:13	63802	HEMP_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
11/17/2024 12:14	65402	MARI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/17/2024 12:14	65401	MARI_T1	0	1	1	0	0.2	0.2	0.41	0.44	0	0	0	0	0	0
11/17/2024 12:14	45802	HEGI_T2	10	27	17	0.26	0.45	0.19	0	0	0	0	0	0	0	0
11/17/2024 12:15	58202	NEWV_T1	8	5	-3	0.75	0.44	-0.31	-0.29	-0.3	0	0	0	0	0	0
11/17/2024 12:15	65402	MARI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/17/2024 12:15	65401	MARI_T1	1	1	0	0.2	0.3	0.1	0.82	0.88	0	0	0	0	0	0
11/17/2024 12:16	65402	MARI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/17/2024 12:16	65401	MARI_T1	1	1	0	0.2	0.3	0.1	0.41	0.44	0	0	0	0	0	0
11/17/2024 12:32	65502	MOJO_T2	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
11/17/2024 12:43	64401	LAND_T1	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
11/17/2024 12:45	65401	MARI_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/17/2024 12:45	65402	MARI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/17/2024 12:46	64401	LAND_T1	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
11/17/2024 13:19	67502	WEWI_T2	1	0	-1	0.5	0	-0.5	-1.88	-1.88	1	1	0	900	900	0
11/17/2024 13:19	67503	WEWI_T2	1	1	0	7.5	7.6	0.1	0	0	0	0	0	0	0	0
11/17/2024 13:21	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
11/17/2024 13:25	22905	HARW_T1	12	45	33	1.53	1.52	-0.01	0	0	0	0	0	0	0	0
11/17/2024 13:25	22904	HARW_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 13:25	22901	HARW_T1	3	0	-3	1.97	0	-1.97	0	0	0	0	0	0	0	0
11/17/2024 13:25	22903	HARW_T1	37	40	3	2.21	1.74	-0.47	-0.01	0	0	0	0	0	0	0
11/17/2024 13:45	65503	MOJO_T2	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
11/17/2024 14:29	25402	LAHA_T2	0	0	0	0	0	0	-0.72	-0.76	0	0	0	0	0	0
11/17/2024 14:29	26704	HEML_T2	0	0	0	0	0	0	-0.84	-0.84	1	1	0	1200	1200	0
11/17/2024 14:50	15203	SFAR_T2	0	0	0	0	0	0	-1.35	-1.32	0	0	0	0	0	0
11/17/2024 14:53	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/17/2024 15:31	64101	REFR_T1	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
11/17/2024 15:35	28102	TWLA_T2	5	12	7	0.22	0.27	0.05	0.2	0.2	0	0	0	0	0	0
11/17/2024 15:43	63501	HEID_TBK1-2	0	0	0	0	0	0	0.44	0.36	0	0	0	0	0	0
11/17/2024 15:43	46602	LACR_T1	0	0	0	0	0	0	-1.23	-1.27	0	0	0	0	0	0
11/17/2024 15:54	17802	GILB_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
11/17/2024 15:56	24702	FLND_T2	0	0	0	0	0	0	-0.46	-0.57	1	1	0	1200	1200	0
11/17/2024 15:56	24703	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 15:58	27604	PIRI_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
11/17/2024 15:59	27604	PIRI_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
11/17/2024 16:06	24902	WHHA_T1	4	1	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/17/2024 16:06	24901	WHHA_T1	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
11/17/2024 16:10	60803	BUCK_T1	0	0	0	0	0	0	-0.56	-1.22	1	1	0	600	600	0
11/17/2024 18:21	60803	BUCK_T1	0	0	0	0	0	0	-1.2	-1.2	1	1	0	600	600	0
11/17/2024 18:30	22405	MORG_T2	0	0	0	0	0	0	-0.29	-0.25	0	0	0	0	0	0
11/17/2024 18:35	26704	HEML_T2	0	0	0	0	0	0	-0.88	-0.89	1	1	0	1200	1200	0
11/17/2024 18:35	15203	SFAR_T2	0	0	0	0	0	0	-1.29	-1.3	0	0	0	0	0	0
11/17/2024 18:38	16202	POFA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 18:39	65503	MOJO_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
11/17/2024 18:40	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.31	0	0	0	0	0	0
11/17/2024 18:40	65603	QVIL_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
11/17/2024 18:41	66505	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/17/2024 18:41	46602	LACR_T1	0	0	0	0	0	0	-1.22	-1.26	0	0	0	0	0	0
11/17/2024 18:41	13303	ORVI_T1	0	0	0	0	0	0	0.46	0.5	0	0	0	0	0	0
11/17/2024 18:41	25402	LAHA_T2	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
11/17/2024 18:41	66504	SMAN_T2	0	0	0	0	0	0	-1.28	-1.38	0	0	0	0	0	0
11/17/2024 18:41	67502	WEWI_T2	0	0	0	0	0	0	-2.16	-2.17	1	1	0	900	900	0
11/17/2024 18:41	27604	PIRI_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
11/17/2024 18:41	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.31	0	0	0	0	0	0
11/17/2024 18:41	67503	WEWI_T2	1	1	0	5.6	4.9	-0.7	0	0	0	0	0	0	0	0
11/17/2024 18:41	24902	WHHA_T1	2	2	0	0.45	0.65	0.2	0.75	0.74	0	0	0	0	0	0
11/17/2024 18:42	17802	GILB_T1	0	0	0	0	0	0	0.03	0.16	0	0	0	0	0	0
11/17/2024 18:42	10801	CHHI_T1	0	0	0	0	0	0	-2.23	-2.24	3	3	0	2100	2100	0
11/17/2024 18:42	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
11/17/2024 18:42	63802	HEMP_T1	0	0	0	0	0	0	0.13	0.08	0	0	0	0	0	0
11/17/2024 18:42	63501	HEID_TBK1-2	0	0	0	0	0	0	0.71	0.62	0	0	0	0	0	0
11/17/2024 18:43	45501	DERR_T2	0	0	0	0	0	0	-0.85	-0.9	2	2	0	1800	1800	0
11/17/2024 18:43	67503	WEWI_T2	1	1	0	5.6	4.9	-0.7	0	0	0	0	0	0	0	0
11/17/2024 18:43	61701	ELIZ_T1	1	1	0	3.8	4.2	0.4	0.06	0.05	0	0	0	0	0	0
11/17/2024 18:43	54506	ENOL_T2	0	0	0	0	0	0	0.58	0.49	1	1	0	600	600	0
11/17/2024 18:43	67502	WEWI_T2	0	0	0	0	0	0	-2.16	-2.17	1	1	0	900	900	0
11/17/2024 18:43	64401	LAND_T1	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
11/17/2024 18:43	60101	COCA_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
11/17/2024 18:43	65401	MARI_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
11/17/2024 18:44	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
11/17/2024 18:44	65603	QVIL_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
11/17/2024 18:44	60101	COCA_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
11/17/2024 18:44	24105	EHAZ_T1	4	4	0	6.23	6.4	0.17	-2.12	-2.15	1	1	0	1200	1200	0
11/17/2024 18:44	67503	WEWI_T2	1	1	0	5.6	4.9	-0.7	0	0	0	0	0	0	0	0
11/17/2024 18:44	24102	EHAZ_T1	7	8	1	0.7	2.1	1.4	0	0	0	0	0	0	0	0
11/17/2024 18:44	24101	EHAZ_T1	8	2	-6	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
11/17/2024 18:44	63802	HEMP_T1	0	0	0	0	0	0	0.13	0.08	0	0	0	0	0	0
11/17/2024 18:44	40101	HUNT_T2	32	43	11	0.43	0.82	0.39	-1.48	-1.5	0	0	0	0	0	0
11/17/2024 18:44	66504	SMAN_T2	0	0	0	0	0	0	-0.64	-0.69	0	0	0	0	0	0
11/17/2024 18:44	66505	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/17/2024 18:44	65401	MARI_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
11/17/2024 18:44	67502	WEWI_T2	0	0	0	0	0	0	-2.16	-2.17	1	1	0	900	900	0
11/17/2024 18:45	54501	ENOL_T2	0	0	0	0	0	0	-0.55	-0.54	1	1	0	600	600	0
11/17/2024 18:45	22905	HARW_T1	24	30	6	0.41	0.72	0.31	0	0	0	0	0	0	0	0
11/17/2024 18:45	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
11/17/2024 18:45	63601	LETO_T1	0	4	4	0	0.15	0.15	0.09	0.2	1	1	0	900	900	0
11/17/2024 18:45	20603	GRWO_T2	0	0	0	0	0	0	0.82	0.74	0	0	0	0	0	0
11/17/2024 18:45	65502	MOJO_T2	0	0	0	0	0	0	-1.24	-1.2	0	0	0	0	0	0
11/17/2024 18:45	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.31	0	0	0	0	0	0
11/17/2024 18:45	64403	LAND_T1	0	0	0	0	0	0	-2.07	-2.04	1	1	0	900	900	0
11/17/2024 18:45	22903	HARW_T1	26	29	3	1.87	2.58	0.71	-0.01	0.02	0	0	0	0	0	0
11/17/2024 18:45	22901	HARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/17/2024 18:45	67604	WARW_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
11/17/2024 18:45	67605	WARW_T1	2	4	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
11/17/2024 18:46	44502	HAMI_T2	1	1	0	3.6	3.6	0	0	0	0	0	0	0	0	0
11/17/2024 18:46	60102	COCA_T1	0	0	0	0	0	0	-0.58	-0.56	2	2	0	1200	1200	0
11/17/2024 18:46	44505	HAMI_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
11/17/2024 18:46	64401	LAND_T1	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
11/17/2024 18:46	60301	TWVA_T2	0	0	0	0	0	0	-1.21	-1.17	0	0	0	0	0	0
11/17/2024 18:46	64201	KINZ_T1	1	1	0	0.7	1	0.3	-0.92	-0.95	3	3	0	1500	1500	0
11/17/2024 18:46	64202	KINZ_T1	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
11/17/2024 18:46	45501	DERR_T2	0	0	0	0	0	0	-0.85	-0.9	2	2	0	1800	1800	0
11/17/2024 18:46	63501	HEID_TBK1-2	0	0	0	0	0	0	0.36	0.31	0	0	0	0	0	0
11/17/2024 18:46	65503	MOJO_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
11/17/2024 18:46	40101	HUNT_T2	22	46	24	0.85	0.48	-0.37	-1.48	-1.5	0	0	0	0	0	0
11/17/2024 18:46	44501	HAMI_T2	8	15	7	0.13	0.15	0.02	0	0	0	0	0	0	0	0
11/17/2024 18:46	64202	KINZ_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
11/17/2024 18:46	15204	SFAR_T2	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
11/17/2024 18:46	45701	LIND_T2	0	0	0	0	0	0	-1.77	-1.77	0	0	0	0	0	0
11/17/2024 18:47	65401	MARI_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
11/17/2024 18:47	63802	HEMP_T1	0	0	0	0	0	0	0.13	0.08	0	0	0	0	0	0
11/17/2024 18:47	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
11/17/2024 18:47	40101	HUNT_T2	22	46	24	0.85	0.48	-0.37	-1.48	-1.5	0	0	0	0	0	0
11/17/2024 18:47	43304	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/17/2024 18:47	58402	MORO_T1	0	0	0	0	0	0	-0.04	-0.05	2	2	0	1200	1200	0
11/17/2024 18:47	10801	CHHI_T1	0	0	0	0	0	0	-2.23	-2.24	3	3	0	2100	2100	0
11/17/2024 18:47	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 18:47	65601	QVIL_T2	0	0	0	0	0	0	-1.26	-1.21	1	1	0	900	900	0
11/17/2024 18:47	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 18:48	49803	UNIV_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
11/17/2024 18:48	63501	HEID_TBK1-2	0	0	0	0	0	0	0.36	0.31	0	0	0	0	0	0
11/17/2024 18:48	49804	UNIV_T1	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
11/17/2024 18:48	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 18:48	47103	MARL_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
11/17/2024 18:48	45702	LIND_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
11/17/2024 18:48	24902	WHHA_T1	2	5	3	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
11/17/2024 18:48	24901	WHHA_T1	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
11/17/2024 18:48	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.31	0	0	0	0	0	0
11/17/2024 18:48	66505	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/17/2024 18:48	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 18:48	43304	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/17/2024 18:49	45501	DERR_T2	0	0	0	0	0	0	-0.85	-0.9	2	2	0	1800	1800	0
11/17/2024 18:49	44502	HAMI_T2	1	1	0	3.6	3.6	0	0	0	0	0	0	0	0	0
11/17/2024 18:49	44505	HAMI_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
11/17/2024 18:49	24902	WHHA_T1	2	5	3	0.65	0.6	-0.05	0.75	0.74	0	0	0	0	0	0
11/17/2024 18:49	44501	HAMI_T2	8	15	7	0.13	0.15	0.02	0	0	0	0	0	0	0	0
11/17/2024 18:49	58202	NEWV_T1	5	5	0	0.28	0.4	0.12	-0.72	-0.72	0	0	0	0	0	0
11/17/2024 18:49	29301	DAPP_T1	1	1	0	9.9	10	0.1	0	0	1	1	0	600	600	0
11/17/2024 18:49	24702	FLND_T2	0	0	0	0	0	0	-0.25	-0.38	1	1	0	1200	1200	0
11/17/2024 18:49	60101	COCA_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
11/17/2024 18:49	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 18:50	43304	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/17/2024 18:50	66505	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/17/2024 18:50	40602	PIGR_T1	1	2	1	3.7	3.4	-0.3	0	0	0	0	0	0	0	0
11/17/2024 18:50	44801	EDAN_T2	1	0	-1	2.2	0	-2.2	-0.5	-0.49	0	0	0	0	0	0
11/17/2024 18:50	64402	LAND_T2	0	0	0	0	0	0	-0.57	-0.57	1	1	0	600	600	0
11/17/2024 18:50	44502	HAMI_T2	1	1	0	3.6	3.6	0	0	0	0	0	0	0	0	0
11/17/2024 18:50	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 18:50	66502	SMAN_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
11/17/2024 18:50	44501	HAMI_T2	8	15	7	0.13	0.15	0.02	0	0	0	0	0	0	0	0
11/17/2024 18:50	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/17/2024 18:51	54601	SUMM_T2	0	3	3	0	0.27	0.27	-4.18	-4.15	2	2	0	2100	2100	0
11/17/2024 18:51	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
11/17/2024 18:51	60801	BUCK_T1	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
11/17/2024 18:51	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
11/17/2024 18:51	43304	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/17/2024 18:51	43302	WATS_T2	0	2	0	0	0	0	0	0	2	2	0	1800	1800	0
11/17/2024 18:51	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
11/17/2024 18:51	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 18:51	63802	HEMP_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
11/17/2024 18:51	40101	HUNT_T2	22	46	24	0.85	0.48	-0.37	-1.48	-1.5	0	0	0	0	0	0
11/17/2024 18:51	65603	QVIL_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
11/17/2024 18:52	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 18:52	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
11/17/2024 18:52	63801	HEMP_T1	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
11/17/2024 18:52	67402	WAKE_T2	0	0	0	0	0	0	-0.48	-0.49	1	1	0	600	600	0
11/17/2024 18:52	43304	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/17/2024 18:52	58401	MORO_T1	0	0	0	0	0	0	-1.75	-1.82	2	2	0	1200	1200	0
11/17/2024 18:52	44801	EDAN_T2	1	0	-1	2.2	0	-2.2	-0.49	-0.49	0	0	0	0	0	0
11/17/2024 18:53	63501	HEID_TBK1-2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
11/17/2024 18:53	47104	MARL_T1	0	0	0	0	0	0	-0.9	-0.93	0	0	0	0	0	0
11/17/2024 18:53	45802	HEGI_T2	20	37	17	0.46	0.41	-0.05	1.03	1.03	0	0	0	0	0	0
11/17/2024 18:53	63801	HEMP_T1	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
11/17/2024 18:53	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 18:53	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
11/17/2024 18:53	43304	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/17/2024 18:53	47101	MARL_T1	8	11	3	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
11/17/2024 18:54	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 18:54	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 18:54	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 18:54	43304	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/17/2024 18:55	43304	WATS_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/17/2024 18:55	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 18:56	58401	MORO_T1	0	0	0	0	0	0	-1.75	-1.82	2	2	0	1200	1200	0
11/17/2024 18:57	40201	BEGA_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/17/2024 18:58	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 18:58	63501	HEID_TBK1-2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
11/17/2024 18:58	65502	MOJO_T2	0	0	0	0	0	0	-1.2	-1.29	0	0	0	0	0	0
11/17/2024 18:59	65401	MARI_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
11/17/2024 18:59	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 19:00	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 19:00	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 19:00	24902	WHHA_T1	2	6	4	0.65	0.52	-0.13	0.74	0.75	0	0	0	0	0	0
11/17/2024 19:03	40201	BEGA_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
11/17/2024 19:03	45802	HEGI_T2	33	42	9	0.43	0.46	0.03	0	0	0	0	0	0	0	0
11/17/2024 19:03	52402	GRPA_T2	0	1	1	0	0	-0.91	-0.93	0	0	0	0	0	0	0
11/17/2024 19:04	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 19:07	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2024 19:07	67402	WAKE_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	600	600	0
11/17/2024 19:10	45501	DERR_T2	0	0	0	0	0	0	-0.85	-0.85	2	2	0	1800	1800	0
11/17/2024 20:10	46004	BERW_T2	0	0	0	0	0	0	-0.91	-0.89	0	0	0	0	0	0
11/17/2024 20:26	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/18/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
11/18/2024 9:00	67503	WEWI_T2	1	1	0	8.4	8.8	0.4	83.96	83.96	0	0	0	0	0	0
11/18/2024 9:00	54506	ENOL_T2	0	0	0	0	0	0	0.38	0.53	1	1	0	600	600	0
11/18/2024 9:00	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/18/2024 9:00	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
11/18/2024 9:00	54502	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
11/18/2024 9:00	67502	WEWI_T2	2	19	17	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
11/18/2024 10:00	58401	MORO_T1	0	0	0	0	0	0	-2.04	-2.07	1	1	0	600	600	0
11/18/2024 10:08	58402	MORO_T1	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1500	1500	0
11/18/2024 10:08	58401	MORO_T1	0	0	0	0	0	0	-2.07	-1.11	1	1	0	600	600	0
11/18/2024 10:11	17802	GILB_T1	1	2	1	1.3	0.85	-0.45	0.06	0.08	0	0	0	0	0	0
11/18/2024 10:13	17805	GILB_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
11/18/2024 10:13	17803	GILB_T2	7	29	22	0.16	0.3	0.14	0	0	0	0	0	0	0	0
11/18/2024 10:13	17804	GILB_T2	1	2	1	1.7	0.8	-0.9	0	0	0	0	0	0	0	0
11/18/2024 10:25	11203	ELHE_T1	0	0	0	0	0	0	0.9	0.83	0	0	0	0	0	0
11/18/2024 10:27	11202	ELHE_T2	0	0	0	0	0	0	1.16	-0.13	1	1	0	1200	1200	0
11/18/2024 10:36	44801	EDAN_T2	0	1	1	0	0.2	0.2	-0.51	-0.44	0	0	0	0	0	0
11/18/2024 10:52	64305	LINC_T1	1	1	0	0.6	0.7	0.1	-0.22	-0.16	0	0	0	0	0	0
11/18/2024 11:02	11203	ELHE_T1	0	0	0	0	0	0	0.84	0.9	0	0	0	0	0	0
11/18/2024 11:12	58003	WCAR_T1	1	1	0	1	1.3	0.3	0.75	0.75	0	0	0	0	0	0
11/18/2024 11:12	58001	WCAR_T1	4	4	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
11/18/2024 11:14	58001	WCAR_T1	4	4	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
11/18/2024 11:14	58003	WCAR_T1	1	1	0	1	1.3	0.3	0.75	0.75	0	0	0	0	0	0
11/18/2024 11:26	17802	GILB_T1	2	3	1	0.8	0.53	-0.27	0.06	0.04	0	0	0	0	0	0
11/18/2024 11:30	58001	WCAR_T1	4	4	0	1.3	1.45	0.15	0	0	0	0	0	0	0	0
11/18/2024 11:30	58003	WCAR_T1	1	1	0	1.3	1.3	0	0.75	0.72	0	0	0	0	0	0
11/18/2024 11:47	21206	ECAR_T2	1	1	0	8.2	8.2	0	0.39	0.46	0	0	0	0	0	0
11/18/2024 11:47	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/18/2024 12:29	14204	EALL_T2	0	0	0	0	0	0	0.19	0.12	0	0	0	0	0	0
11/18/2024 12:30	64802	MONE_T2	2	58	56	0.75	0.3	-0.45	0	0	0	0	0	0	0	0
11/18/2024 12:30	64801	MONE_T2	1	59	58	0.5	0.23	-0.27	-0.01	0.22	0	0	0	0	0	0
11/18/2024 12:31	60803	BUCK_T1	17	17	0	0.52	0.47	-0.05	0	0	0	0	0	0	0	0
11/18/2024 12:31	60801	BUCK_T1	51	52	1	0.32	0.28	-0.04	-0.17	-0.15	0	0	0	0	0	0
11/18/2024 12:32	60803	BUCK_T1	17	17	0	0.52	0.47	-0.05	0	0	0	0	0	0	0	0
11/18/2024 12:32	60801	BUCK_T1	51	52	1	0.32	0.28	-0.04	-0.17	-0.15	0	0	0	0	0	0
11/18/2024 12:35	60803	BUCK_T1	17	17	0	0.52	0.47	-0.05	0	0	0	0	0	0	0	0
11/18/2024 12:35	60801	BUCK_T1	51	52	1	0.32	0.28	-0.04	-0.17	-0.15	0	0	0	0	0	0
11/18/2024 12:53	44801	EDAN_T2	2	1	-1	0.45	0.3	-0.15	-0.51	-0.52	0	0	0	0	0	0
11/18/2024 12:59	17804	GILB_T2	3	1	-2	0.53	1.9	1.37	0	0	0	0	0	0	0	0
11/18/2024 12:59	17805	GILB_T2	2	2	0	0.5	0.35	-0.15	-0.67	-0.66	0	0	0	0	0	0
11/18/2024 13:07	67503	WEWI_T2	1	1	0	8.6	9.7	1.1	83.96	83.96	0	0	0	0	0	0
11/18/2024 13:07	67502	WEWI_T2	4	7	3	0.45	0.34	-0.11	0	0	0	0	0	0	0	0
11/18/2024 13:08	67502	WEWI_T2	4	7	3	0.45	0.34	-0.11	-1.37	-1.18	0	0	0	0	0	0
11/18/2024 13:08	67503	WEWI_T2	1	1	0	8.6	9.7	1.1	0	0	0	0	0	0	0	0
11/18/2024 13:09	67503	WEWI_T2	1	1	0	8.6	9.7	1.1	83.96	83.96	0	0	0	0	0	0
11/18/2024 13:09	67502	WEWI_T2	4	7	3	0.45	0.34	-0.11	0	0	0	0	0	0	0	0
11/18/2024 13:34	10101	ALLE_T3	2	2	0	3.3	5.15	1.85	0	0	0	0	0	0	0	0
11/18/2024 13:34	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/2024 14:12	14801	TREI_T2	1	3	2	0.8	0.37	-0.43	0	0	0	0	0	0	0	0
11/18/2024 14:12	14802	TREI_T2	0	1	1	0	0.3	0.3	0.43	0.36	0	0	0	0	0	0
11/18/2024 14:12	11104	EGYP_T1	2	1	-1	0.2	0.1	-0.1	0.23	0.33	0	0	0	0	0	0
11/18/2024 14:12	11101	EGYP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/18/2024 14:13	14801	TREI_T2	1	3	2	0.8	0.37	-0.43	0	0	0	0	0	0	0	0
11/18/2024 14:13	14802	TREI_T2	0	1	1	0	0.3	0.3	0.43	0.36	0	0	0	0	0	0
11/18/2024 14:14	14801	TREI_T2	1	3	2	0.8	0.37	-0.43	0	0	0	0	0	0	0	0
11/18/2024 14:14	14802	TREI_T2	0	1	1	0	0.3	0.3	0.43	0.36	0	0	0	0	0	0
11/18/2024 14:15	11104	EGYP_T1	1	0	-1	0.1	0	-0.1	0.23	0.33	0	0	0	0	0	0
11/18/2024 14:15	11101	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/18/2024 14:17	11101	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/18/2024 14:17	11104	EGYP_T1	1	0	-1	0.1	0	-0.1	0.23	0.33	0	0	0	0	0	0
11/18/2024 14:19	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/2024 14:19	10101	ALLE_T3	2	2	0	5.75	3.8	-1.95	0	0	0	0	0	0	0	0
11/18/2024 14:24	64802	MONE_T2	35	32	-3	0.15	0.17	0.02	0.23	0.1	0	0	0	0	0	0
11/18/2024 14:27	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/2024 14:27	44502	HAMI_T2	1	1	0	3	3.5	0.5	0	0	0	0	0	0	0	0
11/18/2024 14:29	44505	HAMI_T2	0	0	0	0	0	0	1.08	1.09	0	0	0	0	0	0
11/18/2024 14:29	44502	HAMI_T2	1	1	0	3	3.5	0.5	0	0	0	0	0	0	0	0
11/18/2024 14:42	44801	EDAN_T2	2	1	-1	0.5	0	-0.5	-0.5	-0.5	0	0	0	0	0	0
11/18/2024 14:43	14801	TREI_T2	3	3	0	0.37	0.37	0	0.48	0.46	0	0	0	0	0	0
11/18/2024 14:43	14802	TREI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/18/2024 14:44	14801	TREI_T2	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0	0
11/18/2024 14:44	14802	TREI_T2	1	1	0	0.3	0.2	-0.1	0.28	0.32	0	0	0	0	0	0
11/18/2024 14:49	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/2024 14:49	10101	ALLE_T3	2	2	0	3.8	3.2	-0.6	0	0	0	0	0	0	0	0
11/18/2024 14:52	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/2024 14:52	10101	ALLE_T3	2	2	0	3.8	3.2	-0.6	0	0	0	0	0	0	0	0
11/18/2024 15:10	14802	TREI_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
11/18/2024 15:10	14801	TREI_T2	2	3	1	0.25	0.17	-0.08	0	0	0	0	0	0	0	0
11/18/2024 15:14	14801	TREI_T2	2	3	1	0.25	0.17	-0.08	0	0	0	0	0	0	0	0
11/18/2024 15:14	14802	TREI_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
11/18/2024 15:44	14201	EALL_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
11/18/2024 16:09	67503	WEWI_T2	1	1	0	8.8	8.5	-0.3	0	0	0	0	0	0	0	0
11/18/2024 16:09	67502	WEWI_T2	0	0	0	0	0	0	-0.55	-0.63	0	0	0	0	0	0
11/18/2024 18:40	17805	GILB_T2	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
11/18/2024 18:40	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/2024 18:40	10101	ALLE_T3	2	2	0	5.9	4.55	-1.35	0	0	0	0	0	0	0	0
11/18/2024 18:41	14802	TREI_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
11/18/2024 18:43	14201	EALL_T1	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
11/18/2024 18:43	10101	ALLE_T3	2	2	0	5.9	4.55	-1.35	0	0	0	0	0	0	0	0
11/18/2024 18:43	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/2024 18:44	67503	WEWI_T2	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0	0
11/18/2024 18:44	14801	TREI_T2	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
11/18/2024 18:44	17802	GILB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/2024 18:44	67502	WEWI_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
11/18/2024 18:45	11202	ELHE_T2	0	0	0	0	0	0	0.36	0.35	1	1	0	1200	1200	0
11/18/2024 18:45	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/2024 18:45	10101	ALLE_T3	2	2	0	4.8	4.35	-0.45	0	0	0	0	0	0	0	0
11/18/2024 18:45	17802	GILB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/2024 18:45	14801	TREI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/18/2024 18:45	11104	EGYP_T1	0	0	0	0	0	0	0.82	0.78	0	0	0	0	0	0
11/18/2024 18:45	14802	TREI_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
11/18/2024 18:46	21206	ECAR_T2	1	1	0	7.3	7.6	0.3	0.19	0.17	0	0	0	0	0	0
11/18/2024 18:46	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/18/2024 18:47	64801	MONE_T2	2	0	-2	0.1	0	-0.1	0.22	0.22	0	0	0	0	0	0
11/18/2024 18:47	60801	BUCK_T1	35	22	-13	0.23	0.16	-0.07	-0.24	-0.25	0	0	0	0	0	0
11/18/2024 18:47	14802	TREI_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
11/18/2024 18:47	60803	BUCK_T1	12	14	2	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
11/18/2024 18:47	64802	MONE_T2	174	1	-173	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
11/18/2024 18:47	14801	TREI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/18/2024 18:48	67503	WEWI_T2	1	1	0	8.2	8.4	0.2	83.96	83.96	0	0	0	0	0	0
11/18/2024 18:48	67502	WEWI_T2	0	60	60	0	0.18	0.18	-0.64	-0.62	0	0	0	0	0	0
11/18/2024 18:48	44502	HAMI_T2	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/18/2024 18:48	44505	HAMI_T2	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
11/18/2024 18:49	67503	WEWI_T2	1	1	0	8.2	8.4	0.2	0	0	0	0	0	0	0	0
11/18/2024 18:49	60801	BUCK_T1	35	22	-13	0.23	0.16	-0.07	-0.24	-0.25	0	0	0	0	0	0
11/18/2024 18:49	67502	WEWI_T2	0	60	60	0	0.18	0.18	-0.64	-0.62	0	0	0	0	0	0
11/18/2024 18:49	60803	BUCK_T1	12	14	2	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
11/18/2024 18:49	58001	WCAR_T1	4	4	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
11/18/2024 18:49	58003	WCAR_T1	1	1	0	1.6	1.6	0	0.52	0.52	0	0	0	0	0	0
11/18/2024 18:50	17804	GILB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/2024 18:50	67503	WEWI_T2	1	1	0	8.2	8.4	0.2	83.96	83.96	0	0	0	0	0	0
11/18/2024 18:50	64305	LINC_T1	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
11/18/2024 18:50	67502	WEWI_T2	0	60	60	0	0.18	0.18	0	0	0	0	0	0	0	0
11/18/2024 18:50	14801	TREI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/18/2024 18:50	44801	EDAN_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
11/18/2024 18:50	14802	TREI_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
11/18/2024 18:51	58003	WCAR_T1	1	1	0	1.6	1.6	0	0.52	0.51	0	0	0	0	0	0
11/18/2024 18:51	11104	EGYP_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
11/18/2024 18:51	58001	WCAR_T1	4	4	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
11/18/2024 18:52	64801	MONE_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/18/2024 18:52	14204	EALL_T2	0	0	0	0	0	0	0.21	0.16	0	0	0	0	0	0
11/18/2024 18:52	58402	MORO_T1	1	0	-1	0.7	0	-0.7	-0.07	-0.04	2	2	0	1500	1500	0
11/18/2024 18:52	67502	WEWI_T2	0	60	60	0	0.18	0.18	-0.62	-1.73	0	1	1	0	900	900
11/18/2024 18:52	67503	WEWI_T2	1	1	0	8.2	8.4	0.2	0	0	0	0	0	0	0	0
11/18/2024 18:52	64802	MONE_T2	174	1	-173	0.21	0.1	-0.11	0.17	0.05	0	0	0	0	0	0
11/18/2024 18:53	58402	MORO_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
11/18/2024 18:53	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.19	1	1	0	600	600	0
11/18/2024 18:54	44502	HAMI_T2	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
11/18/2024 18:54	44801	EDAN_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
11/18/2024 18:54	14802	TREI_T2	0	0	0	0	0	0	0.6	0.64	0	0	0	0	0	0
11/18/2024 18:54	14801	TREI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/18/2024 18:54	44505	HAMI_T2	0	0	0	0	0	0	0.46	0.51	0	0	0	0	0	0
11/18/2024 18:55	44801	EDAN_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
11/18/2024 18:56	58001	WCAR_T1	4	4	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
11/18/2024 18:56	58003	WCAR_T1	1	1	0	1.6	1.6	0	0.52	0.51	0	0	0	0	0	0
11/18/2024 18:59	58402	MORO_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
11/18/2024 18:59	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.19	1	1	0	600	600	0
11/18/2024 19:00	60801	BUCK_T1	22	0	-22	0.16	0	-0.16	-0.25	-0.23	0	0	0	0	0	0
11/18/2024 19:00	60803	BUCK_T1	14	3	-11	0.29	0.1	-0.19	0	0	0	0	0	0	0	0
11/19/2024 7:44	24702	FLND_T2	0	0	0	0	0	0	0.57	0.63	1	1	0	1200	1200	0
11/19/2024 7:49	66202	SISP_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
11/19/2024 7:51	44902	SCOT_T2	0	0	0	0	0	0	-0.96	-0.95	0	0	0	0	0	0
11/19/2024 7:56	14203	EALL_T1	0	0	0	0	0	0	-0.98	-0.64	2	2	0	2400	2400	0
11/19/2024 7:58	12006	HATF_T1	0	0	0	0	0	0	0.29	0.3	1	1	0	1200	1200	0
11/19/2024 7:58	14203	EALL_T1	0	0	0	0	0	0	-0.49	-0.32	1	1	0	1200	1200	0
11/19/2024 8:00	45702	LIND_T2	1	1	0	0.8	1	0.2	-1.69	-1.69	0	0	0	0	0	0
11/19/2024 8:01	40101	HUNT_T2	2	8	6	0.3	0.3	0	-0.65	-0.6	0	0	0	0	0	0
11/19/2024 8:04	13303	ORVI_T1	0	0	0	0	0	0	-0.27	-0.33	0	0	0	0	0	0
11/19/2024 8:05	13303	ORVI_T1	0	0	0	0	0	0	-0.27	-0.33	0	0	0	0	0	0
11/19/2024 8:07	67503	WEWI_T2	1	1	0	8	9	1	0	0	0	0	0	0	0	0
11/19/2024 8:07	67502	WEWI_T2	0	1	1	0	0.3	0.3	-0.26	-0.31	0	0	0	0	0	0
11/19/2024 8:08	55101	WERT_T1	0	0	0	0	0	0	-1.28	-1.34	1	1	0	600	600	0
11/19/2024 8:26	23901	EFMO_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
11/19/2024 8:29	45702	LIND_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
11/19/2024 8:29	45701	LIND_T2	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
11/19/2024 8:31	12001	HATF_T1	0	0	0	0	0	0	0.71	0.67	2	2	0	1200	1200	0
11/19/2024 8:31	45702	LIND_T2	1	1	0	0.3	1	0.7	-1.68	-1.61	0	0	0	0	0	0
11/19/2024 8:35	65601	QVIL_T2	0	0	0	0	0	0	-1.2	-1.25	1	1	0	900	900	0
11/19/2024 8:35	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 8:36	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 8:37	65603	QVIL_T2	0	0	0	0	0	0	0.43	0.26	0	0	0	0	0	0
11/19/2024 8:40	58003	WCAR_T1	1	1	0	1.4	1.5	0.1	0	0.72	1	0	-1	600	0	-600
11/19/2024 8:40	58001	WCAR_T1	3	3	0	0.73	0.97	0.24	0	0	0	0	0	0	0	0
11/19/2024 8:49	65603	QVIL_T2	0	0	0	0	0	0	0.43	0.26	0	0	0	0	0	0
11/19/2024 8:50	65603	QVIL_T2	0	0	0	0	0	0	0.43	0.26	0	0	0	0	0	0
11/19/2024 8:52	24806	VALM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 8:52	60301	TWVA_T2	0	0	0	0	0	0	-3.79	-3.87	4	4	0	3600	3600	0
11/19/2024 8:52	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 8:56	14201	EALL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 8:57	46002	BERW_T2	0	0	0	0	0	0	-0.53	-0.58	1	1	0	900	900	0
11/19/2024 9:00	65603	QVIL_T2	0	0	0	0	0	0	0.78	0.69	0	0	0	0	0	0
11/19/2024 9:00	40504	CRES_T1	62	94	32	0.15	0.27	0.12	0	0	0	0	0	0	0	0
11/19/2024 9:00	58001	WCAR_T1	3	4	1	0.97	1.18	0.21	0	0	0	0	0	0	0	0
11/19/2024 9:00	58003	WCAR_T1	1	1	0	1	1	0	0.72	0.79	0	0	0	0	0	0
11/19/2024 9:00	11203	ELHE_T1	0	0	0	0	0	0	1.11	1.17	0	0	0	0	0	0
11/19/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
11/19/2024 9:00	21901	HUMB_T1	0	0	0	0	0	0	-2.26	-2.25	0	0	0	0	0	0
11/19/2024 9:00	65601	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/19/2024 9:01	44502	HAMI_T2	1	1	0	3.2	3.1	-0.1	-0.84	-0.86	0	0	0	0	0	0
11/19/2024 9:04	57401	SPAN_T1	2	2	0	0.9	0.55	-0.35	-0.91	-0.58	1	1	0	600	600	0
11/19/2024 9:04	57403	SPAN_T1	28	13	-15	0.3	0.17	-0.13	0.05	0	0	0	0	0	0	0
11/19/2024 9:06	57401	SPAN_T1	2	2	0	0.9	0.55	-0.35	-0.58	-0.92	1	1	0	600	600	0
11/19/2024 9:06	67502	WEWI_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
11/19/2024 9:06	57403	SPAN_T1	28	13	-15	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
11/19/2024 9:06	67503	WEWI_T2	1	1	0	8	9.1	1.1	0	0	0	0	0	0	0	0
11/19/2024 9:06	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 9:06	65601	QVIL_T2	0	1	1	0	0.2	0.2	-1.13	-1.25	1	1	0	900	900	0
11/19/2024 9:07	57401	SPAN_T1	2	2	0	0.9	0.55	-0.35	-0.58	-0.92	1	1	0	600	600	0
11/19/2024 9:07	57403	SPAN_T1	28	13	-15	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
11/19/2024 9:07	60301	TWVA_T2	0	0	0	0	0	0	-3.87	-3.86	4	4	0	3600	3600	0
11/19/2024 9:10	51603	DUKE_T1	0	2	2	0	0.1	0.1	-0.74	-0.72	0	0	0	0	0	0
11/19/2024 9:11	51603	DUKE_T1	0	2	2	0	0.1	0.1	-0.37	-0.36	0	0	0	0	0	0
11/19/2024 9:11	40802	EXCH_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/19/2024 9:11	40801	EXCH_T2	0	0	0	0	0	0	-0.59	-0.55	1	1	0	1200	1200	0
11/19/2024 9:12	51603	DUKE_T1	0	2	2	0	0.1	0.1	-0.37	-0.36	0	0	0	0	0	0
11/19/2024 9:14	63501	HEID_TBK1-2	1	2	1	1	0.75	-0.25	-0.02	-0.01	1	1	0	900	900	0
11/19/2024 9:14	54502	ENOL_T2	1	1	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
11/19/2024 9:14	54506	ENOL_T2	0	0	0	0	0	0	0.42	1.04	1	0	-1	600	0	-600
11/19/2024 9:14	54505	ENOL_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
11/19/2024 9:14	17802	GILB_T1	0	2	2	0	0.55	0.55	-0.02	0.12	0	0	0	0	0	0
11/19/2024 9:14	51603	DUKE_T1	0	2	2	0	0.1	0.1	-0.37	-0.36	0	0	0	0	0	0
11/19/2024 9:15	23201	HIRU_T2	0	3	3	0	0.2	0.2	-0.51	-0.52	0	0	0	0	0	0
11/19/2024 9:15	63501	HEID_TBK1-2	1	2	1	1.3	0.65	-0.65	-0.02	-0.01	1	1	0	900	900	0
11/19/2024 9:16	46801	HEPB_T2	4	3	-1	0.7	0.97	0.27	0	0	0	0	0	0	0	0
11/19/2024 9:16	46803	HEPB_T2	2	2	0	0.2	0.3	0.1	0.45	0.43	0	0	0	0	0	0
11/19/2024 9:17	63501	HEID_TBK1-2	1	2	1	1.3	0.65	-0.65	-0.02	-0.01	1	1	0	900	900	0
11/19/2024 9:18	47502	NECO_T1	0	1	1	0	0.4	0.4	2	1.97	0	0	0	0	0	0
11/19/2024 9:19	52402	GRPA_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
11/19/2024 9:19	43302	WATS_T2	0	0	0	0	0	0	0	0	3	3	0	2400	2400	0
11/19/2024 9:19	54601	SUMM_T2	6	7	1	0.53	0.39	-0.14	-3.05	-3.09	2	2	0	2100	2100	0
11/19/2024 9:19	52401	GRPA_T2	1	1	0	0.4	0.7	0.3	-0.55	-0.45	0	0	0	0	0	0
11/19/2024 9:19	54602	SUMM_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
11/19/2024 9:19	52403	GRPA_T2	1	23	22	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
11/19/2024 9:21	58003	WCAR_T1	1	1	0	1	0.9	-0.1	0.74	0.73	0	0	0	0	0	0
11/19/2024 9:21	58001	WCAR_T1	4	4	0	1.18	0.93	-0.25	0	0	0	0	0	0	0	0
11/19/2024 9:22	15203	SFAR_T2	0	0	0	0	0	0	-2.76	-2.74	0	0	0	0	0	0
11/19/2024 9:22	58003	WCAR_T1	1	1	0	1	0.9	-0.1	0.74	0.73	0	0	0	0	0	0
11/19/2024 9:22	58001	WCAR_T1	4	4	0	1.18	0.93	-0.25	0	0	0	0	0	0	0	0
11/19/2024 9:24	51603	DUKE_T1	0	2	2	0	0.15	0.15	-0.36	-0.37	0	0	0	0	0	0
11/19/2024 9:26	45501	DERR_T2	1	1	0	0.3	0	-0.3	0.32	0.41	2	2	0	1800	1800	0
11/19/2024 9:28	40703	FFLD_T1	4	4	0	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
11/19/2024 9:28	40701	FFLD_T1	66	49	-17	0.48	0.47	-0.01	0	0	0	0	0	0	0	0
11/19/2024 9:28	40702	FFLD_T1	150	64	-86	0.34	0.16	-0.18	-0.51	-0.54	1	1	0	1200	1200	0
11/19/2024 9:28	45501	DERR_T2	1	1	0	0.3	0	-0.3	0.32	0.41	2	2	0	1800	1800	0
11/19/2024 9:29	23901	EFMO_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
11/19/2024 9:30	40701	FFLD_T1	38	49	11	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
11/19/2024 9:30	40702	FFLD_T1	35	60	25	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
11/19/2024 9:30	45501	DERR_T2	0	1	1	0	0	0	0.32	0.41	2	2	0	1800	1800	0
11/19/2024 9:30	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
11/19/2024 9:30	40703	FFLD_T1	4	4	0	0.4	0.53	0.13	0	0	0	0	0	0	0	0
11/19/2024 9:30	63803	HEMP_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/19/2024 9:30	63801	HEMP_T1	0	1	1	0	0.1	0.1	0.24	0.01	0	0	0	0	0	0
11/19/2024 9:31	45702	LIND_T2	1	2	1	1.3	0.55	-0.75	-1.77	-1.73	0	0	0	0	0	0
11/19/2024 9:31	44502	HAMI_T2	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
11/19/2024 9:31	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 9:32	44502	HAMI_T2	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
11/19/2024 9:32	44505	HAMI_T2	0	0	0	0	0	0	0.63	0.65	0	0	0	0	0	0
11/19/2024 9:32	45702	LIND_T2	1	2	1	1.3	0.55	-0.75	0	0	0	0	0	0	0	0
11/19/2024 9:32	45701	LIND_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
11/19/2024 9:34	15203	SFAR_T2	0	0	0	0	0	0	-1.38	-1.37	0	0	0	0	0	0
11/19/2024 9:34	45702	LIND_T2	1	2	1	1.3	0.55	-0.75	-1.77	-1.73	0	0	0	0	0	0
11/19/2024 9:34	64802	MONE_T2	0	8	8	0	0.13	0.13	0.26	0.26	0	0	0	0	0	0
11/19/2024 9:36	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 9:36	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 9:37	54203	PENN_T1	18	18	0	0.94	1.03	0.09	0.6	0.66	0	0	0	0	0	0
11/19/2024 9:37	54201	PENN_T1	7	9	2	0.89	0.76	-0.13	0	0	0	0	0	0	0	0
11/19/2024 9:38	54201	PENN_T1	7	9	2	0.89	0.76	-0.13	0.11	0.07	0	0	0	0	0	0
11/19/2024 9:38	54203	PENN_T1	18	18	0	0.94	1.03	0.09	0	0	0	0	0	0	0	0
11/19/2024 9:39	54203	PENN_T1	18	18	0	0.94	1.03	0.09	0.6	0.66	0	0	0	0	0	0
11/19/2024 9:39	54201	PENN_T1	7	9	2	0.89	0.76	-0.13	0	0	0	0	0	0	0	0
11/19/2024 9:40	61701	ELIZ_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
11/19/2024 9:40	51602	DUKE_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
11/19/2024 9:41	14201	EALL_T1	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
11/19/2024 9:41	16101	BING_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
11/19/2024 9:42	16101	BING_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
11/19/2024 9:42	44801	EDAN_T2	1	3	2	0.4	0.43	0.03	-0.96	-0.88	0	0	0	0	0	0
11/19/2024 9:43	44801	EDAN_T2	1	3	2	0.4	0.43	0.03	-0.48	-0.44	0	0	0	0	0	0
11/19/2024 9:44	51602	DUKE_T2	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
11/19/2024 9:51	67001	STHI_T2	1	6	5	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/19/2024 9:51	15201	SFAR_T1	0	0	0	0	0	0	0.09	-0.01	1	1	0	1200	1200	0
11/19/2024 9:51	67002	STHI_T2	0	7	7	0	0.2	0.2	3.05	2.85	0	0	0	0	0	0
11/19/2024 9:52	67002	STHI_T2	0	7	7	0	0.2	0.2	2.44	2.28	0	0	0	0	0	0
11/19/2024 9:52	67001	STHI_T2	1	6	5	0.1	0.13	0.03	0.06	0.06	0	0	0	0	0	0
11/19/2024 9:52	15201	SFAR_T1	0	0	0	0	0	0	0.09	-0.01	1	1	0	1200	1200	0
11/19/2024 9:53	66902	SHIL_T2	0	2	2	0	0.15	0.15	-2.08	-2.08	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/19/2024 9:53	67002	STHI_T2	0	7	7	0	0.2	0.2	0.61	0.57	0	0	0	0	0	0
11/19/2024 9:53	67001	STHI_T2	1	6	5	0.1	0.13	0.03	0.06	0.06	0	0	0	0	0	0
11/19/2024 9:53	66903	SHIL_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
11/19/2024 9:54	58003	WCAR_T1	1	1	0	0.7	1.3	0.6	0.77	0.76	0	0	0	0	0	0
11/19/2024 9:54	58001	WCAR_T1	4	4	0	0.93	1.43	0.5	0	0	0	0	0	0	0	0
11/19/2024 9:54	67001	STHI_T2	1	6	5	0.1	0.13	0.03	0.06	0.06	0	0	0	0	0	0
11/19/2024 9:54	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 9:54	67002	STHI_T2	0	7	7	0	0.2	0.2	0	0	0	0	0	0	0	0
11/19/2024 9:55	67001	STHI_T2	1	6	5	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/19/2024 9:55	67002	STHI_T2	0	7	7	0	0.2	0.2	0.61	0.57	0	0	0	0	0	0
11/19/2024 9:58	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 9:59	52402	GRPA_T2	2	4	2	0.2	0.63	0.43	-0.87	-0.8	0	0	0	0	0	0
11/19/2024 9:59	52403	GRPA_T2	2	2	0	0.25	1.05	0.8	0	0	0	0	0	0	0	0
11/19/2024 9:59	52401	GRPA_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
11/19/2024 9:59	10801	CHHI_T1	0	0	0	0	0	0	-0.97	-0.91	1	1	0	900	900	0
11/19/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
11/19/2024 10:04	52402	GRPA_T2	4	4	0	0.63	0.3	-0.33	0	0	0	0	0	0	0	0
11/19/2024 10:04	52403	GRPA_T2	2	1	-1	1.05	1.9	0.85	-0.15	-0.16	0	0	0	0	0	0
11/19/2024 10:04	52401	GRPA_T2	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
11/19/2024 10:06	47403	PENS_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
11/19/2024 10:06	47401	PENS_T1	0	0	0	0	0	0	0.25	0.2	0	0	0	0	0	0
11/19/2024 10:08	67201	TEHI_T1	0	0	0	0	0	0	0.89	0.69	1	1	0	900	900	0
11/19/2024 10:08	26002	WDAM_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/19/2024 10:09	57403	SPAN_T1	25	146	121	0.27	0.31	0.04	0	0	0	0	0	0	0	0
11/19/2024 10:09	57401	SPAN_T1	4	23	19	0.5	0.37	-0.13	-0.36	-0.28	0	0	0	0	0	0
11/19/2024 10:12	14203	EALL_T1	0	2	2	0	0.2	0.2	-0.3	-0.26	1	1	0	1200	1200	0
11/19/2024 10:12	48902	FOSP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 10:12	48901	FOSP_T2	0	0	0	0	0	0	-0.15	-0.12	1	1	0	600	600	0
11/19/2024 10:13	57106	SPHI_T2	3	3	0	1.4	1.33	-0.07	0	0	0	0	0	0	0	0
11/19/2024 10:13	57104	SPHI_T2	2	2	0	1.55	1.3	-0.25	-0.18	-0.23	0	0	0	0	0	0
11/19/2024 10:13	48901	FOSP_T2	0	0	0	0	0	0	-0.29	-0.25	2	2	0	1200	1200	0
11/19/2024 10:13	57101	SPHI_T2	6	6	0	1.05	0.9	-0.15	0	0	0	0	0	0	0	0
11/19/2024 10:13	45802	HEGI_T2	0	13	13	0	0.4	0.4	0	0	0	0	0	0	0	0
11/19/2024 10:13	48902	FOSP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 10:14	45802	HEGI_T2	0	13	13	0	0.4	0.4	0	0	0	0	0	0	0	0
11/19/2024 10:15	48902	FOSP_T2	1	1	0	0.1	0.1	0	0.54	0.36	0	0	0	0	0	0
11/19/2024 10:15	14203	EALL_T1	0	3	3	0	0.6	0.6	-0.3	-0.26	1	1	0	1200	1200	0
11/19/2024 10:15	48901	FOSP_T2	0	0	0	0	0	0	-0.15	-0.12	1	1	0	600	600	0
11/19/2024 10:16	41801	GOCI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/19/2024 10:18	13302	ORVI_T2	2	3	1	0.6	0.43	-0.17	1.44	1.47	0	0	0	0	0	0
11/19/2024 10:18	46502	LOHA_T1	0	0	0	0	0	0	-1.4	-1.43	1	1	0	1200	1200	0
11/19/2024 10:18	46506	LOHA_T1	3	3	0	4.2	4.63	0.43	0	0	0	0	0	0	0	0
11/19/2024 10:19	64903	MILL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/19/2024 10:19	54601	SUMM_T2	8	13	5	0.51	0.46	-0.05	0	0	0	0	0	0	0	0
11/19/2024 10:19	54602	SUMM_T2	2	10	8	0.1	0.19	0.09	0	0	0	0	0	0	0	0
11/19/2024 10:19	54603	SUMM_T2	0	0	0	0	0	0	-0.46	-0.45	1	1	0	900	900	0
11/19/2024 10:19	13303	ORVI_T1	0	0	0	0	0	0	0.95	0.98	0	0	0	0	0	0
11/19/2024 10:19	64902	MILL_T2	1	2	1	0.8	0.5	-0.3	-1.58	0.31	2	0	-2	1800	0	-1800
11/19/2024 10:22	57401	SPAN_T1	6	41	35	0.28	0.27	-0.01	-0.28	-0.37	0	0	0	0	0	0
11/19/2024 10:22	54601	SUMM_T2	8	13	5	0.51	0.46	-0.05	0	0	0	0	0	0	0	0
11/19/2024 10:22	57403	SPAN_T1	35	146	111	0.27	0.31	0.04	0	0	0	0	0	0	0	0
11/19/2024 10:22	54602	SUMM_T2	2	10	8	0.1	0.19	0.09	0	0	0	0	0	0	0	0
11/19/2024 10:22	54603	SUMM_T2	0	0	0	0	0	0	-0.45	-0.42	1	1	0	900	900	0
11/19/2024 10:23	57403	SPAN_T1	35	146	111	0.27	0.31	0.04	0	0	0	0	0	0	0	0
11/19/2024 10:23	57401	SPAN_T1	6	41	35	0.28	0.27	-0.01	-0.56	-0.74	0	0	0	0	0	0
11/19/2024 10:23	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 10:23	57205	ROSS_T1	2	2	0	0.25	0.2	-0.05	0.1	0.1	0	0	0	0	0	0
11/19/2024 10:24	57401	SPAN_T1	6	41	35	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
11/19/2024 10:24	57403	SPAN_T1	35	146	111	0.27	0.31	0.04	-0.04	-0.03	0	0	0	0	0	0
11/19/2024 10:25	10801	CHHI_T1	0	0	0	0	0	0	-0.96	-0.9	1	1	0	900	900	0
11/19/2024 10:26	61001	DONV_T1	0	3	3	0	0.2	0.2	-0.06	-0.07	0	0	0	0	0	0
11/19/2024 10:27	61002	DONV_T2	0	0	0	0	0	0	-0.54	-0.51	1	1	0	600	600	0
11/19/2024 10:27	55508	HERS_T2	430	495	65	0.84	0.94	0.1	-2.64	-2.64	1	1	0	1200	1200	0
11/19/2024 10:28	55507	HERS_T1	6	13	7	0.32	0.32	0	-0.01	-0.01	0	0	0	0	0	0
11/19/2024 10:28	61001	DONV_T1	0	3	3	0	0.2	0.2	-0.06	-0.07	0	0	0	0	0	0
11/19/2024 10:29	61001	DONV_T1	0	3	3	0	0.2	0.2	-0.06	-0.07	0	0	0	0	0	0
11/19/2024 10:29	55508	HERS_T2	430	495	65	0.84	0.94	0.1	-2.64	-2.64	1	1	0	1200	1200	0
11/19/2024 10:30	52403	GRPA_T2	1	3	2	1.9	1	-0.9	-0.17	-0.16	0	0	0	0	0	0
11/19/2024 10:30	52401	GRPA_T2	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/19/2024 10:30	52402	GRPA_T2	4	5	1	0.18	0.32	0.14	0	0	0	0	0	0	0	0
11/19/2024 10:31	55508	HERS_T2	475	476	1	0.97	0.87	-0.1	0	0	0	0	0	0	0	0
11/19/2024 10:35	57203	ROSS_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
11/19/2024 10:35	57205	ROSS_T1	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/19/2024 10:36	47401	PENS_T1	0	1	1	0	0.1	0.1	0.22	0.23	0	0	0	0	0	0
11/19/2024 10:36	57201	ROSS_T1	0	0	0	0	0	0	-0.36	-0.31	0	0	0	0	0	0
11/19/2024 10:36	47403	PENS_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
11/19/2024 10:36	57401	SPAN_T1	22	162	140	0.38	0.29	-0.09	-0.37	-0.54	0	0	0	0	0	0
11/19/2024 10:36	57205	ROSS_T1	2	1	-1	0.2	0.4	0.2	0.1	0.1	0	0	0	0	0	0
11/19/2024 10:36	57403	SPAN_T1	146	88	-58	0.31	0.28	-0.03	0	0	0	0	0	0	0	0
11/19/2024 10:36	57203	ROSS_T1	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
11/19/2024 10:37	57401	SPAN_T1	22	162	140	0.38	0.29	-0.09	-1.11	-1.61	0	0	0	0	0	0
11/19/2024 10:37	57205	ROSS_T1	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/19/2024 10:37	57201	ROSS_T1	0	0	0	0	0	0	-0.36	-0.31	0	0	0	0	0	0
11/19/2024 10:37	57403	SPAN_T1	146	88	-58	0.31	0.28	-0.03	0	0	0	0	0	0	0	0
11/19/2024 10:37	67106	SPBI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 10:38	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 10:38	14705	TREX_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
11/19/2024 10:38	10101	ALLE_T3	1	1	0	4.4	2.3	-2.1	0	0	0	0	0	0	0	0
11/19/2024 10:38	14704	TREX_T1	1	1	0	6.3	5.8	-0.5	0	0	0	0	0	0	0	0
11/19/2024 10:39	57403	SPAN_T1	146	88	-58	0.31	0.28	-0.03	0	0	0	0	0	0	0	0
11/19/2024 10:39	57401	SPAN_T1	22	162	140	0.38	0.29	-0.09	-0.37	-0.54	0	0	0	0	0	0
11/19/2024 10:40	67401	WAKE_T2	0	2	2	0	0.45	0.45	-0.79	-0.82	0	0	0	0	0	0
11/19/2024 10:40	67402	WAKE_T2	2	2	0	0.4	0.2	-0.2	0.33	0.35	1	1	0	600	600	0
11/19/2024 10:40	64902	MILL_T2	1	1	0	0.2	0.5	0.3	0.17	0.19	0	0	0	0	0	0
11/19/2024 10:45	46506	LOHA_T1	3	3	0	4.57	4.77	0.2	0	0	0	0	0	0	0	0
11/19/2024 10:45	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
11/19/2024 10:45	46504	LOHA_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
11/19/2024 10:46	65503	MOJO_T2	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 10:46	65502	MOJO_T2	0	36	36	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 10:47	64202	KINZ_T1	3	3	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
11/19/2024 10:47	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 10:47	12001	HATF_T1	1	2	1	0.2	0.15	-0.05	0.65	0.74	1	1	0	600	600	0
11/19/2024 10:47	64204	KINZ_T1	15	26	11	0.35	0.45	0.1	0	0	0	0	0	0	0	0
11/19/2024 10:47	64201	KINZ_T1	1	1	0	0.3	0.3	0	-0.71	-0.38	3	3	0	1500	1500	0
11/19/2024 10:48	65503	MOJO_T2	0	10	10	0	0.1	0.1	-0.98	-1	1	1	0	900	900	0
11/19/2024 10:48	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 10:48	12001	HATF_T1	1	2	1	0.2	0.15	-0.05	0.65	0.74	1	1	0	600	600	0
11/19/2024 10:48	65502	MOJO_T2	0	36	36	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 10:49	65502	MOJO_T2	0	36	36	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 10:49	65503	MOJO_T2	0	10	10	0	0.1	0.1	-0.98	-1	1	1	0	900	900	0
11/19/2024 10:51	14801	TREI_T2	3	4	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/19/2024 10:51	14802	TREI_T2	2	2	0	0.1	0.3	0.2	0.64	0.62	0	0	0	0	0	0
11/19/2024 10:52	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 10:52	64303	LINC_T1	1	1	0	0.2	0.1	-0.1	-0.16	-0.21	0	0	0	0	0	0
11/19/2024 10:52	14802	TREI_T2	2	2	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/19/2024 10:52	14801	TREI_T2	3	4	1	0.5	0.4	-0.1	0.3	0.28	0	0	0	0	0	0
11/19/2024 10:52	58002	WCAR_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/19/2024 10:52	58006	WCAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 10:52	64305	LINC_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
11/19/2024 10:54	60101	COCA_T1	0	1	1	0	0.2	0.2	0.32	0.21	0	0	0	0	0	0
11/19/2024 10:54	67002	STHI_T2	21	23	2	0.25	0.3	0.05	0.61	0.6	0	0	0	0	0	0
11/19/2024 10:54	67001	STHI_T2	11	44	33	0.28	0.15	-0.13	0.04	0.05	0	0	0	0	0	0
11/19/2024 10:55	43304	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	1	1	0	600	600	0
11/19/2024 10:55	43301	WATS_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/19/2024 10:57	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 11:01	51904	COPA_T1	5	5	0	0.56	0.6	0.04	0	0	0	0	0	0	0	0
11/19/2024 11:01	51906	COPA_T1	0	0	0	0	0	0	-1.12	-1.11	2	2	0	1500	1500	0
11/19/2024 11:02	65503	MOJO_T2	1	9	8	0.1	0.1	0	0	0	0	0	0	0	0	0
11/19/2024 11:02	65502	MOJO_T2	0	36	36	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 11:02	45802	HEGI_T2	13	42	29	0.35	0.73	0.38	0.71	0.55	2	2	0	1800	1800	0
11/19/2024 11:08	15001	BLMO_T1	3	6	3	0.53	0.37	-0.16	0	0	0	0	0	0	0	0
11/19/2024 11:08	60201	ATGL_T2	1	1	0	0.2	0.3	0.1	0.02	0.05	0	0	0	0	0	0
11/19/2024 11:09	15001	BLMO_T1	3	6	3	0.53	0.37	-0.16	0	0	0	0	0	0	0	0
11/19/2024 11:09	13905	SEID_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
11/19/2024 11:12	15001	BLMO_T1	3	6	3	0.53	0.37	-0.16	0	0	0	0	0	0	0	0
11/19/2024 11:13	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 11:13	44801	EDAN_T2	3	3	0	0.57	0.7	0.13	0	0	0	0	0	0	0	0
11/19/2024 11:13	44802	EDAN_T2	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
11/19/2024 11:14	64201	KINZ_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/19/2024 11:14	44802	EDAN_T2	0	0	0	0	0	0	-1.9	-1.92	0	0	0	0	0	0
11/19/2024 11:14	44801	EDAN_T2	3	3	0	0.57	0.7	0.13	0	0	0	0	0	0	0	0
11/19/2024 11:14	64204	KINZ_T1	26	21	-5	0.44	0.44	0	0	0	0	0	0	0	0	0
11/19/2024 11:14	64202	KINZ_T1	2	3	1	0.35	0.67	0.32	0.76	0.64	0	0	0	0	0	0
11/19/2024 11:15	64202	KINZ_T1	3	3	0	0.5	0.67	0.17	0	0	0	0	0	0	0	0
11/19/2024 11:15	45502	DERR_T2	0	0	0	0	0	0	0.05	-0.01	1	1	0	300	300	0
11/19/2024 11:15	44802	EDAN_T2	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
11/19/2024 11:15	44801	EDAN_T2	3	3	0	0.37	0.7	0.33	0	0	0	0	0	0	0	0
11/19/2024 11:15	64201	KINZ_T1	1	1	0	0.3	0.2	-0.1	-1.22	-1.11	6	6	0	3000	3000	0
11/19/2024 11:15	65401	MARI_T1	0	0	0	0	0	0	0.38	0.55	0	0	0	0	0	0
11/19/2024 11:15	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
11/19/2024 11:15	46504	LOHA_T1	2	2	0	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
11/19/2024 11:15	46506	LOHA_T1	3	3	0	4.77	4.5	-0.27	0	0	0	0	0	0	0	0
11/19/2024 11:15	64204	KINZ_T1	21	21	0	0.41	0.43	0.02	0	0	0	0	0	0	0	0
11/19/2024 11:15	45501	DERR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/19/2024 11:16	65401	MARI_T1	0	0	0	0	0	0	0.38	0.55	0	0	0	0	0	0
11/19/2024 11:16	44801	EDAN_T2	3	3	0	0.37	0.7	0.33	0	0	0	0	0	0	0	0
11/19/2024 11:16	44802	EDAN_T2	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
11/19/2024 11:18	65401	MARI_T1	0	0	0	0	0	0	1.14	1.65	0	0	0	0	0	0
11/19/2024 11:18	64305	LINC_T1	1	1	0	0.7	0.9	0.2	-0.15	0.49	0	0	0	0	0	0
11/19/2024 11:18	44802	EDAN_T2	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
11/19/2024 11:18	64202	KINZ_T1	3	3	0	0.5	0.67	0.17	0	0	0	0	0	0	0	0
11/19/2024 11:18	64201	KINZ_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/19/2024 11:18	64204	KINZ_T1	21	21	0	0.41	0.43	0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/19/2024 11:18	44801	EDAN_T2	3	3	0	0.37	0.7	0.33	0	0	0	0	0	0	0	0
11/19/2024 11:18	64303	LINC_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/19/2024 11:19	65401	MARI_T1	0	0	0	0	0	0	0.38	0.55	0	0	0	0	0	0
11/19/2024 11:19	65502	MOJO_T2	36	0	-36	0.1	0	-0.1	-0.57	-0.58	0	0	0	0	0	0
11/19/2024 11:19	65503	MOJO_T2	9	0	-9	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/19/2024 11:20	65502	MOJO_T2	36	0	-36	0.1	0	-0.1	-0.57	-0.58	0	0	0	0	0	0
11/19/2024 11:20	65503	MOJO_T2	9	0	-9	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/19/2024 11:21	65502	MOJO_T2	36	0	-36	0.1	0	-0.1	-0.58	-0.4	0	0	0	0	0	0
11/19/2024 11:21	54601	SUMM_T2	13	13	0	0.59	0.6	0.01	-3.06	-3.01	2	2	0	2100	2100	0
11/19/2024 11:21	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 11:21	65503	MOJO_T2	9	0	-9	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/19/2024 11:21	54602	SUMM_T2	9	0	-9	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/19/2024 11:22	54601	SUMM_T2	13	13	0	0.59	0.6	0.01	-3.06	-3.01	2	2	0	2100	2100	0
11/19/2024 11:22	54602	SUMM_T2	9	0	-9	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/19/2024 11:23	54602	SUMM_T2	9	0	-9	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/19/2024 11:23	54601	SUMM_T2	13	13	0	0.59	0.6	0.01	-3.06	-3.01	2	2	0	2100	2100	0
11/19/2024 11:24	10707	CATA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/19/2024 11:24	10705	CATA_T2	1	1	0	1.7	1.7	0	0.02	-0.02	0	0	0	0	0	0
11/19/2024 11:24	10702	CATA_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
11/19/2024 11:25	67605	WARW_T1	53	60	7	0.7	0.7	0	0	0	0	0	0	0	0	0
11/19/2024 11:25	46506	LOHA_T1	3	3	0	4.77	4.5	-0.27	0	0	0	0	0	0	0	0
11/19/2024 11:25	67603	WARW_T1	2	3	1	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
11/19/2024 11:25	46504	LOHA_T1	2	2	0	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
11/19/2024 11:25	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
11/19/2024 11:25	67604	WARW_T1	0	0	0	0	0	0	0.67	0.58	0	0	0	0	0	0
11/19/2024 11:26	55507	HERS_T1	6	8	2	0.22	0.35	0.13	-0.01	-0.01	0	0	0	0	0	0
11/19/2024 11:26	10702	CATA_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
11/19/2024 11:26	10701	CATA_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
11/19/2024 11:26	10705	CATA_T2	1	1	0	1.7	1.7	0	0.02	-0.02	0	0	0	0	0	0
11/19/2024 11:26	10707	CATA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/19/2024 11:27	10702	CATA_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
11/19/2024 11:27	10705	CATA_T2	1	1	0	1.7	1.7	0	0.02	-0.02	0	0	0	0	0	0
11/19/2024 11:27	10707	CATA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/19/2024 11:28	17802	GILB_T1	2	3	1	0.5	0.53	0.03	0.07	0.06	0	0	0	0	0	0
11/19/2024 11:30	22903	HARW_T1	22	22	0	1.22	0.27	-0.95	0	0	0	0	0	0	0	0
11/19/2024 11:30	22901	HARW_T1	0	0	0	0	0	0	-0.19	-0.13	1	1	0	1200	1200	0
11/19/2024 11:33	64904	MILL_T1	0	1	1	0	0.1	0.1	0.36	0.36	0	0	0	0	0	0
11/19/2024 11:35	64802	MONE_T2	65	101	36	0.17	0.22	0.05	0	0	0	0	0	0	0	0
11/19/2024 11:35	64801	MONE_T2	5	28	23	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
11/19/2024 11:38	13502	MOMI_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/19/2024 11:41	24105	EHAZ_T1	4	4	0	6.08	6.1	0.02	0	0	0	0	0	0	0	0
11/19/2024 11:41	24104	EHAZ_T1	0	0	0	0	0	0	-0.85	-0.85	1	0	-1	1200	0	-1200
11/19/2024 11:41	24101	EHAZ_T1	9	1	-8	0.56	1	0.44	0	0	0	0	0	0	0	0
11/19/2024 11:44	41801	GOCI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/19/2024 11:48	25404	LAHA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 11:48	25402	LAHA_T2	1	0	-1	1.8	0	-1.8	-0.54	-0.47	0	0	0	0	0	0
11/19/2024 11:50	58202	NEWV_T1	8	9	1	0.56	1.02	0.46	0.1	0.1	0	0	0	0	0	0
11/19/2024 11:52	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 11:52	45702	LIND_T2	22	82	60	0.25	0.23	-0.02	-1.72	-1.79	0	0	0	0	0	0
11/19/2024 11:52	45501	DERR_T2	0	0	0	0	0	0	-0.43	0.41	0	4	4	0	3600	3600
11/19/2024 11:52	43301	WATS_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/19/2024 11:52	44801	EDAN_T2	0	3	3	0	0.37	0.37	-0.9	-1.02	0	0	0	0	0	0
11/19/2024 11:52	45701	LIND_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
11/19/2024 11:52	44802	EDAN_T2	0	0	0	0	0	0	-5.46	-5.4	0	0	0	0	0	0
11/19/2024 11:53	45701	LIND_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
11/19/2024 11:53	44802	EDAN_T2	0	0	0	0	0	0	-5.46	-5.4	0	0	0	0	0	0
11/19/2024 11:53	45501	DERR_T2	0	0	0	0	0	0	-0.43	0.41	0	4	4	0	3600	3600
11/19/2024 11:53	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 11:53	44801	EDAN_T2	0	3	3	0	0.37	0.37	-0.9	-1.02	0	0	0	0	0	0
11/19/2024 11:53	43301	WATS_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/19/2024 11:53	45702	LIND_T2	22	82	60	0.25	0.23	-0.02	-1.72	-1.79	0	0	0	0	0	0
11/19/2024 11:54	67401	WAKE_T2	0	0	0	0	0	0	-1.21	-1.22	0	0	0	0	0	0
11/19/2024 11:55	54601	SUMM_T2	13	12	-1	0.55	0.5	-0.05	-3.04	-3.02	0	2	2	0	2100	2100
11/19/2024 11:56	60801	BUCK_T1	0	35	35	0	0.22	0.22	0.18	-0.21	0	0	0	0	0	0
11/19/2024 11:56	60803	BUCK_T1	14	16	2	0.19	0.41	0.22	0	0	0	0	0	0	0	0
11/19/2024 11:57	67401	WAKE_T2	0	0	0	0	0	0	-1.21	-1.22	0	0	0	0	0	0
11/19/2024 11:58	67401	WAKE_T2	0	0	0	0	0	0	-1.21	-1.22	0	0	0	0	0	0
11/19/2024 11:59	45801	HEGI_T1	0	0	0	0	0	0	-0.73	-0.8	0	1	1	0	900	900
11/19/2024 12:00	48902	FOSP_T2	1	2	1	0.5	0.4	-0.1	0.38	0.26	0	0	0	0	0	0
11/19/2024 12:01	41801	GOCI_T2	1	7	6	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
11/19/2024 12:02	12004	HATF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/19/2024 12:02	12001	HATF_T1	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/19/2024 12:02	58202	NEWV_T1	9	8	-1	0.57	1.35	0.78	0.1	-0.09	0	0	0	0	0	0
11/19/2024 12:02	52403	GRPA_T2	16	3	-13	0.58	0.77	0.19	0	0	0	0	0	0	0	0
11/19/2024 12:02	12002	HATF_T1	0	0	0	0	0	0	0.51	0.37	0	1	1	0	1200	1200
11/19/2024 12:02	12006	HATF_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/19/2024 12:02	52402	GRPA_T2	7	6	-1	0.47	0.6	0.13	-0.9	-0.93	0	0	0	0	0	0
11/19/2024 12:02	52401	GRPA_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
11/19/2024 12:02	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/19/2024 12:06	55101	WERT_T1	0	0	0	0	0	0	-1.34	-1.33	0	1	1	0	600	600
11/19/2024 12:12	40801	EXCH_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
11/19/2024 12:12	40802	EXCH_T2	1	1	0	0.5	0.8	0.3	0.03	0.01	0	0	0	0	0	0
11/19/2024 12:13	67502	WEWI_T2	26	6	-20	0.27	0.5	0.23	-0.34	-0.51	0	0	0	0	0	0
11/19/2024 12:13	67503	WEWI_T2	1	1	0	9.4	9.6	0.2	0	0	0	0	0	0	0	0
11/19/2024 12:13	48901	FOSP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 12:13	48902	FOSP_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/19/2024 12:14	67502	WEWI_T2	26	6	-20	0.27	0.5	0.23	-0.34	-0.51	0	0	0	0	0	0
11/19/2024 12:14	67503	WEWI_T2	1	1	0	9.4	9.6	0.2	0	0	0	0	0	0	0	0
11/19/2024 12:15	40801	EXCH_T2	4	1	-3	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
11/19/2024 12:15	64802	MONE_T2	41	63	22	0.16	0.18	0.02	0	0	0	0	0	0	0	0
11/19/2024 12:15	64801	MONE_T2	5	6	1	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/19/2024 12:15	40802	EXCH_T2	1	1	0	0.8	0.2	-0.6	0.03	0.01	0	0	0	0	0	0
11/19/2024 12:15	48901	FOSP_T2	0	0	0	0	0	0	-0.13	-0.14	1	1	0	600	600	0
11/19/2024 12:15	48902	FOSP_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
11/19/2024 12:16	40802	EXCH_T2	1	1	0	0.8	0.2	-0.6	0.03	0.01	0	0	0	0	0	0
11/19/2024 12:16	48902	FOSP_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
11/19/2024 12:16	48901	FOSP_T2	0	0	0	0	0	0	-0.13	-0.14	1	1	0	600	600	0
11/19/2024 12:16	40801	EXCH_T2	4	1	-3	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
11/19/2024 12:17	48901	FOSP_T2	0	0	0	0	0	0	-0.13	-0.14	1	1	0	600	600	0
11/19/2024 12:17	48902	FOSP_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
11/19/2024 12:18	65601	QVIL_T2	4	4	0	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
11/19/2024 12:18	65603	QVIL_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
11/19/2024 12:18	65602	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 12:20	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/19/2024 12:20	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	-1.06	-1.06	0	0	0	0	0	0
11/19/2024 12:22	14801	TREI_T2	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0	0
11/19/2024 12:22	14802	TREI_T2	2	1	-1	0.1	0.5	0.4	0.31	0.27	0	0	0	0	0	0
11/19/2024 12:23	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/19/2024 12:23	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
11/19/2024 12:23	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	-1.06	-1.18	0	0	0	0	0	0
11/19/2024 12:23	66502	SMAN_T2	0	0	0	0	0	0	0.22	0.17	0	0	0	0	0	0
11/19/2024 12:23	46504	LOHA_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
11/19/2024 12:23	46506	LOHA_T1	3	3	0	4.47	4.73	0.26	0	0	0	0	0	0	0	0
11/19/2024 12:24	26002	WDAM_T1	3	3	0	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
11/19/2024 12:24	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/19/2024 12:24	26001	WDAM_T1	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
11/19/2024 12:24	66503	SMAN_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
11/19/2024 12:24	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/19/2024 12:25	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/19/2024 12:25	60201	ATGL_T2	1	5	4	0.5	0.2	-0.3	-0.17	-0.03	0	0	0	0	0	0
11/19/2024 12:25	14802	TREI_T2	2	1	-1	0.1	0.5	0.4	0.31	0.27	0	0	0	0	0	0
11/19/2024 12:25	14801	TREI_T2	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0	0
11/19/2024 12:25	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/19/2024 12:26	60201	ATGL_T2	1	5	4	0.5	0.2	-0.3	-0.17	-0.03	0	0	0	0	0	0
11/19/2024 12:27	40802	EXCH_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
11/19/2024 12:27	40801	EXCH_T2	4	1	-3	0.13	0.1	-0.03	-0.54	-0.52	1	1	0	1200	1200	0
11/19/2024 12:28	67402	WAKE_T2	0	0	0	0	0	0	0.96	0.98	0	0	0	0	0	0
11/19/2024 12:31	58402	MORO_T1	0	0	0	0	0	0	-0.09	-0.03	2	2	0	1500	1500	0
11/19/2024 12:32	55002	NEWP_T1	7	7	0	1.2	0.87	-0.33	0	0	0	0	0	0	0	0
11/19/2024 12:32	58401	MORO_T1	0	0	0	0	0	0	-2.36	-2.4	2	2	0	1200	1200	0
11/19/2024 12:32	55001	NEWP_T1	5	6	1	0.4	0.48	0.08	-0.3	-0.32	0	0	0	0	0	0
11/19/2024 12:33	55001	NEWP_T1	5	6	1	0.4	0.48	0.08	-0.3	-0.32	0	0	0	0	0	0
11/19/2024 12:33	55002	NEWP_T1	7	7	0	1.2	0.87	-0.33	0	0	0	0	0	0	0	0
11/19/2024 12:42	67505	WEWI_T1	0	0	0	0	0	0	-0.05	-0.01	1	1	0	900	900	0
11/19/2024 12:42	67501	WEWI_T1	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/19/2024 12:57	60201	ATGL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/19/2024 13:00	63804	HEMP_T1	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
11/19/2024 13:00	63801	HEMP_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/19/2024 13:00	63803	HEMP_T1	1	1	0	0.2	0.1	-0.1	0.12	0.1	0	0	0	0	0	0
11/19/2024 13:08	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 13:08	65503	MOJO_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
11/19/2024 13:09	13704	SCHN_T2	1	0	-1	0.1	0	-0.1	-0.41	-0.4	0	0	0	0	0	0
11/19/2024 13:09	13701	SCHN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/19/2024 13:12	13701	SCHN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/19/2024 13:12	13704	SCHN_T2	1	0	-1	0.1	0	-0.1	-0.41	-0.4	0	0	0	0	0	0
11/19/2024 13:14	64204	KINZ_T1	3	10	7	0.53	0.34	-0.19	0	0	0	0	0	0	0	0
11/19/2024 13:14	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 13:14	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 13:14	64202	KINZ_T1	2	3	1	0.35	0.6	0.25	0	0	0	0	0	0	0	0
11/19/2024 13:17	26704	HEML_T2	66	79	13	0.28	0.38	0.1	-0.74	-0.76	1	1	0	1200	1200	0
11/19/2024 13:19	67501	WEWI_T1	2	2	0	0.3	0.15	-0.15	-0.6	-0.5	0	0	0	0	0	0
11/19/2024 13:21	63804	HEMP_T1	1	1	0	6.2	6	-0.2	0.92	0.88	0	0	0	0	0	0
11/19/2024 13:21	63803	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/19/2024 13:23	67501	WEWI_T1	2	2	0	0.3	0.15	-0.15	-0.5	-0.61	0	0	0	0	0	0
11/19/2024 13:23	46004	BERW_T2	0	1	1	0	0.1	0.1	-0.22	-0.28	0	0	0	0	0	0
11/19/2024 13:23	46002	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/19/2024 13:24	46002	BERW_T2	1	0	-1	0.1	0	-0.1	-0.71	-0.69	1	1	0	900	900	0
11/19/2024 13:24	46004	BERW_T2	0	1	1	0	0.1	0.1	-0.22	-0.28	0	0	0	0	0	0
11/19/2024 13:40	14801	TREI_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/19/2024 13:40	14802	TREI_T2	0	1	1	0	0.1	0.1	0.24	0.25	0	0	0	0	0	0
11/19/2024 13:41	14802	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 13:41	14801	TREI_T2	1	1	0	0.8	0.8	0	0.3	0.29	0	0	0	0	0	0
11/19/2024 13:45	14203	EALL_T1	2	1	-1	0.4	0.5	0.1	-0.26	-0.26	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/19/2024 13:50	52502	PROG_T2	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
11/19/2024 13:52	52502	PROG_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
11/19/2024 13:53	52502	PROG_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
11/19/2024 13:55	43301	WATS_T2	0	1	1	0	0.6	0.6	0	0	2	2	0	1800	1800	0
11/19/2024 13:55	10702	CATA_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
11/19/2024 13:55	10705	CATA_T2	1	1	0	1.3	0.4	-0.9	-0.03	0	0	0	0	0	0	0
11/19/2024 13:57	10705	CATA_T2	1	1	0	1.3	0.4	-0.9	-0.03	0	0	0	0	0	0	0
11/19/2024 13:57	10702	CATA_T2	1	1	0	0.6	0.9	0.3	-0.88	-0.87	0	0	0	0	0	0
11/19/2024 13:59	10705	CATA_T2	1	1	0	1.3	0.4	-0.9	-0.03	0	0	0	0	0	0	0
11/19/2024 13:59	10702	CATA_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
11/19/2024 14:02	13101	NHAM_T1	0	0	0	0	0	0	-3.03	-2.67	2	2	0	2400	2400	0
11/19/2024 14:07	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/19/2024 14:09	57205	ROSS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/19/2024 14:09	57201	ROSS_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
11/19/2024 14:09	67106	SPRI_T2	0	0	0	0	0	0	-4	-2.71	4	2	-2	3000	1800	-1200
11/19/2024 14:13	14201	EALL_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
11/19/2024 14:13	14203	EALL_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
11/19/2024 14:14	20603	GRWO_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
11/19/2024 14:15	63501	HEID_T8K1-2	2	2	0	0.7	1.25	0.55	-0.05	0.12	2	2	0	1800	1800	0
11/19/2024 14:21	14401	SSLA_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
11/19/2024 14:21	14404	SSLA_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
11/19/2024 14:21	14402	SSLA_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
11/19/2024 14:25	14401	SSLA_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
11/19/2024 14:25	14404	SSLA_T1	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
11/19/2024 14:25	14402	SSLA_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
11/19/2024 14:26	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 14:26	54502	ENOL_T2	1	1	0	0.8	1	0.2	-1.49	-1.49	0	0	0	0	0	0
11/19/2024 14:26	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 14:26	10101	ALLE_T3	2	2	0	3.4	5.55	2.15	0	0	0	0	0	0	0	0
11/19/2024 14:27	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 14:27	54501	ENOL_T2	0	0	0	0	0	0	0.04	0.08	0	0	0	0	0	0
11/19/2024 14:27	54502	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/19/2024 14:27	54503	ENOL_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	600	600	0
11/19/2024 14:28	65603	QVIL_T2	0	0	0	0	0	0	0.44	0.31	0	0	0	0	0	0
11/19/2024 14:28	65601	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/19/2024 14:29	54502	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/19/2024 14:29	54501	ENOL_T2	0	0	0	0	0	0	0.04	0.08	0	0	0	0	0	0
11/19/2024 14:29	54505	ENOL_T2	1	1	0	1	1.1	0.1	-5.72	-5.72	4	4	0	2400	2400	0
11/19/2024 14:29	54503	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 14:30	54503	ENOL_T2	0	0	0	0	0	0	-1.47	-1.47	3	3	0	1800	1800	0
11/19/2024 14:30	54505	ENOL_T2	1	1	0	1.1	1.1	0	-4.29	-4.29	3	3	0	1800	1800	0
11/19/2024 14:30	54504	ENOL_T2	0	0	0	0	0	0	-1.12	-1.15	1	1	0	600	600	0
11/19/2024 14:30	54502	ENOL_T2	1	1	0	1	1	0	-1.49	-1.49	0	0	0	0	0	0
11/19/2024 14:31	54503	ENOL_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	600	600	0
11/19/2024 14:31	54502	ENOL_T2	1	1	0	1	1	0	-1.49	-1.49	0	0	0	0	0	0
11/19/2024 14:31	54504	ENOL_T2	0	0	0	0	0	0	-1.12	-1.15	1	1	0	600	600	0
11/19/2024 14:31	54505	ENOL_T2	1	1	0	1.1	1.1	0	-1.43	-1.43	1	1	0	600	600	0
11/19/2024 14:40	10101	ALLE_T3	2	2	0	5.55	6.2	0.65	0	0	0	0	0	0	0	0
11/19/2024 14:40	14401	SSLA_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
11/19/2024 14:40	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 14:43	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 14:43	10101	ALLE_T3	2	2	0	5.55	6.2	0.65	0	0	0	0	0	0	0	0
11/19/2024 14:45	50501	MECH_T1	4	4	0	0.95	1.03	0.08	0	0	0	0	0	0	0	0
11/19/2024 14:45	50502	MECH_T1	1	1	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
11/19/2024 14:45	64201	KINZ_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/19/2024 14:45	50505	MECH_T1	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
11/19/2024 14:45	64203	KINZ_T1	0	0	0	0	0	0	0.88	0.87	2	2	0	900	900	0
11/19/2024 14:45	67401	WAKE_T2	2	4	2	0.15	0.28	0.13	-1.19	-1.22	0	0	0	0	0	0
11/19/2024 14:45	67502	WEWI_T2	13	6	-7	0.13	0.13	0	-0.44	-0.47	0	0	0	0	0	0
11/19/2024 14:45	67503	WEWI_T2	1	1	0	9.9	9.7	-0.2	0	0	0	0	0	0	0	0
11/19/2024 14:45	64202	KINZ_T1	3	3	0	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
11/19/2024 14:45	64204	KINZ_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
11/19/2024 14:46	54505	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
11/19/2024 14:46	54502	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
11/19/2024 14:46	54504	ENOL_T2	0	0	0	0	0	0	-1.15	-1.16	1	1	0	600	600	0
11/19/2024 14:46	54501	ENOL_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
11/19/2024 14:47	64201	KINZ_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/19/2024 14:47	67502	WEWI_T2	13	6	-7	0.13	0.13	0	-0.44	-0.47	0	0	0	0	0	0
11/19/2024 14:47	64203	KINZ_T1	0	0	0	0	0	0	0.88	0.87	2	2	0	900	900	0
11/19/2024 14:47	64202	KINZ_T1	3	3	0	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
11/19/2024 14:47	12302	LANA_T2	0	0	0	0	0	0	-1.79	-1.77	2	2	0	1500	1500	0
11/19/2024 14:47	67503	WEWI_T2	1	1	0	9.9	9.7	-0.2	0	0	0	0	0	0	0	0
11/19/2024 14:47	64204	KINZ_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
11/19/2024 14:48	54501	ENOL_T2	0	4	4	0	0.15	0.15	0.08	0.05	0	0	0	0	0	0
11/19/2024 14:48	67503	WEWI_T2	1	1	0	9.9	9.7	-0.2	0	0	0	0	0	0	0	0
11/19/2024 14:48	54505	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
11/19/2024 14:48	67502	WEWI_T2	13	6	-7	0.13	0.13	0	-0.44	-0.47	0	0	0	0	0	0
11/19/2024 14:48	54502	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
11/19/2024 14:49	67503	WEWI_T2	1	1	0	9.9	9.7	-0.2	0	0	0	0	0	0	0	0
11/19/2024 14:49	67502	WEWI_T2	13	6	-7	0.13	0.13	0	0	0	0	0	0	0	0	0
11/19/2024 14:50	67503	WEWI_T2	1	1	0	9.9	9.7	-0.2	0	0	0	0	0	0	0	0
11/19/2024 14:50	67502	WEWI_T2	13	6	-7	0.13	0.13	0	0	0	0	0	0	0	0	0
11/19/2024 14:50	47802	MOCA_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
11/19/2024 14:51	67503	WEWI_T2	1	1	0	9.9	9.7	-0.2	0	0	0	0	0	0	0	0
11/19/2024 14:51	67502	WEWI_T2	13	6	-7	0.13	0.13	0	-0.47	-0.52	0	0	0	0	0	0
11/19/2024 14:52	67503	WEWI_T2	1	1	0	9.9	9.7	-0.2	0	0	0	0	0	0	0	0
11/19/2024 14:52	67502	WEWI_T2	13	6	-7	0.13	0.13	0	0	0	0	0	0	0	0	0
11/19/2024 14:57	40801	EXCH_T2	0	1	1	0	0.2	0.2	-0.56	-0.57	1	1	0	1200	1200	0
11/19/2024 14:58	40801	EXCH_T2	0	1	1	0	0.2	0.2	-0.56	-0.57	1	1	0	1200	1200	0
11/19/2024 14:58	20201	JERM_T1	0	0	0	0	0	0	0.71	0.69	2	2	0	2400	2400	0
11/19/2024 14:59	59002	MIFF_T1	4	5	1	0.2	0.56	0.36	0	0	0	0	0	0	0	0
11/19/2024 14:59	40801	EXCH_T2	0	1	1	0	0.2	0.2	-0.56	-0.57	1	1	0	1200	1200	0
11/19/2024 14:59	59003	MIFF_T1	0	1	1	0	0.4	0.4	-0.46	0.58	0	0	0	0	0	0
11/19/2024 15:02	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 15:04	64702	LITI_T2	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
11/19/2024 15:07	54601	SUMM_T2	12	12	0	0.79	0.73	-0.06	-3.06	-3.08	2	2	0	2100	2100	0
11/19/2024 15:07	54602	SUMM_T2	10	16	6	0.4	0.29	-0.11	0	0	0	0	0	0	0	0
11/19/2024 15:12	60102	COCA_T1	0	0	0	0	0	0	-0.16	0.29	2	2	0	1200	1200	0
11/19/2024 15:14	60102	COCA_T1	0	0	0	0	0	0	-0.16	0.29	2	2	0	1200	1200	0
11/19/2024 15:14	64902	MILL_T2	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
11/19/2024 15:14	60101	COCA_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
11/19/2024 15:15	17805	GILB_T2	0	0	0	0	0	0	-0.81	-0.78	0	0	0	0	0	0
11/19/2024 15:17	64903	MILL_T2	0	0	0	0	0	0	0.17	0.22	0	0	0	0	0	0
11/19/2024 15:17	20802	LOPO_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/19/2024 15:17	20801	LOPO_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
11/19/2024 15:20	65004	NEFF_T2	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
11/19/2024 15:20	65003	NEFF_T2	4	4	0	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
11/19/2024 15:20	17805	GILB_T2	0	0	0	0	0	0	-0.81	-0.78	0	0	0	0	0	0
11/19/2024 15:23	59402	RFLD_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/19/2024 15:26	62102	ELAN_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
11/19/2024 15:27	62102	ELAN_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
11/19/2024 15:27	11801	FRAN_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
11/19/2024 15:28	67401	WAKE_T2	3	3	0	0.3	0.27	-0.03	-1.22	-1.21	0	0	0	0	0	0
11/19/2024 15:29	22602	KIMB_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
11/19/2024 15:33	20802	LOPO_T1	1	1	0	0.1	0.4	0.3	-0.59	-0.6	1	1	0	600	600	0
11/19/2024 15:37	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 15:39	14801	TREI_T2	0	1	1	0	0.1	0.1	0.27	0.24	0	0	0	0	0	0
11/19/2024 15:40	64702	LITI_T2	0	0	0	0	0	0	-0.77	-0.65	0	0	0	0	0	0
11/19/2024 15:40	64302	LINC_T2	0	0	0	0	0	0	1.12	1.16	0	0	0	0	0	0
11/19/2024 15:44	41503	FAIR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 15:44	41501	FAIR_T2	0	0	0	0	0	0	-1.05	-0.37	1	0	-1	600	0	-600
11/19/2024 15:44	14203	EALL_T1	0	0	0	0	0	0	-0.32	-0.38	1	1	0	1200	1200	0
11/19/2024 15:57	24902	WHHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/19/2024 15:57	24901	WHHA_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
11/19/2024 16:02	44503	HAMI_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
11/19/2024 16:02	44502	HAMI_T2	1	1	0	4.2	3.8	-0.4	0	0	0	0	0	0	0	0
11/19/2024 17:07	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
11/19/2024 18:30	57403	SPAN_T1	14	21	7	0.23	0.24	0.01	0	0	0	0	0	0	0	0
11/19/2024 18:30	57401	SPAN_T1	2	2	0	0.55	0.65	0.1	-0.25	-0.28	0	0	0	0	0	0
11/19/2024 18:31	46506	LOHA_T1	5	5	0	1.72	2.38	0.66	0	0	0	0	0	0	0	0
11/19/2024 18:31	58202	NEWV_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
11/19/2024 18:31	46502	LOHA_T1	0	0	0	0	0	0	-1.41	-1.38	1	1	0	1200	1200	0
11/19/2024 18:32	26704	HEML_T2	1	0	-1	0.1	0	-0.1	-0.77	-0.77	1	1	0	1200	1200	0
11/19/2024 18:32	54601	SUMM_T2	0	0	0	0	0	0	-3.04	-3.07	2	2	0	2100	2100	0
11/19/2024 18:33	26001	WDAM_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
11/19/2024 18:33	58402	MORO_T1	1	1	0	1.6	0	-1.6	0.05	0.01	2	2	0	1500	1500	0
11/19/2024 18:34	58006	WCAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:35	46506	LOHA_T1	5	5	0	1.72	2.38	0.66	0	0	0	0	0	0	0	0
11/19/2024 18:35	46503	LOHA_T1	0	0	0	0	0	0	-1.26	-1.26	0	0	0	0	0	0
11/19/2024 18:36	65503	MOJO_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
11/19/2024 18:36	52502	PROG_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
11/19/2024 18:36	55508	HERS_T2	513	35	-478	0.99	0.27	-0.72	-2.64	-2.64	1	0	-1	1200	0	-1200
11/19/2024 18:36	64202	KINZ_T1	3	1	-2	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
11/19/2024 18:36	57401	SPAN_T1	2	2	0	0.55	0.65	0.1	-0.28	-0.26	0	0	0	0	0	0
11/19/2024 18:36	64903	MILL_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
11/19/2024 18:36	61701	ELIZ_T1	1	1	0	5.6	5.7	0.1	0.16	0.25	0	0	0	0	0	0
11/19/2024 18:36	64204	KINZ_T1	3	1	-2	0.47	1	0.53	0	0	0	0	0	0	0	0
11/19/2024 18:36	64201	KINZ_T1	5	1	-4	0.18	1	0.82	-0.57	-0.61	2	2	0	1200	1200	0
11/19/2024 18:36	57403	SPAN_T1	14	21	7	0.23	0.24	0.01	0	0	0	0	0	0	0	0
11/19/2024 18:37	67001	STHI_T2	731	755	24	0.31	0.32	0.01	0	0	0	0	0	0	0	0
11/19/2024 18:37	17802	GILB_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
11/19/2024 18:37	61001	DONV_T1	0	0	0	0	0	0	-0.04	-0.08	0	0	0	0	0	0
11/19/2024 18:37	67002	STHI_T2	293	345	52	0.21	0.22	0.01	0.56	0.55	0	0	0	0	0	0
11/19/2024 18:37	55508	HERS_T2	513	35	-478	0.99	0.27	-0.72	-2.64	-2.64	0	0	0	0	0	0
11/19/2024 18:37	64302	LINC_T2	0	0	0	0	0	0	1.07	1.02	0	0	0	0	0	0
11/19/2024 18:37	67106	SPRI_T2	0	0	0	0	0	0	-1.37	-1.36	1	1	0	900	900	0
11/19/2024 18:38	58003	WCAR_T1	1	1	0	1.3	1.2	-0.1	0.5	0.5	0	0	0	0	0	0
11/19/2024 18:38	54601	SUMM_T2	0	0	0	0	0	0	-6.14	-6.16	4	4	0	4200	4200	0
11/19/2024 18:38	67503	WEWI_T2	1	1	0	7.1	7.6	0.5	0	0	0	0	0	0	0	0
11/19/2024 18:38	67002	STHI_T2	293	345	52	0.21	0.22	0.01	1.12	1.1	0	0	0	0	0	0
11/19/2024 18:38	67502	WEWI_T2	0	0	0	0	0	0	-1.38	-1.25	0	0	0	0	0	0
11/19/2024 18:38	14802	TREI_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
11/19/2024 18:38	55508	HERS_T2	513	35	-478	0.99	0.27	-0.72	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/19/2024 18:38	45702	LIND_T2	9	80	71	0.34	0.27	-0.07	0	0	0	0	0	0	0	0
11/19/2024 18:38	64902	MILL_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
11/19/2024 18:38	45701	LIND_T2	0	0	0	0	0	0	-0.3	-0.33	0	0	0	0	0	0
11/19/2024 18:38	67501	WEWI_T1	0	0	0	0	0	0	-0.66	-0.69	0	0	0	0	0	0
11/19/2024 18:38	13303	ORVI_T1	0	0	0	0	0	0	0.77	0.75	0	0	0	0	0	0
11/19/2024 18:38	16101	BING_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
11/19/2024 18:38	67001	STHI_T2	731	755	24	0.31	0.32	0.01	0	0	0	0	0	0	0	0
11/19/2024 18:38	58001	WCAR_T1	3	4	1	0.77	0.93	0.16	0	0	0	0	0	0	0	0
11/19/2024 18:39	59002	MIFF_T1	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
11/19/2024 18:39	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:39	59003	MIFF_T1	1	1	0	0.4	0.2	-0.2	-0.4	-0.44	0	0	0	0	0	0
11/19/2024 18:39	10101	ALLE_T3	2	2	0	4.55	5.9	1.35	0	0	0	0	0	0	0	0
11/19/2024 18:39	67001	STHI_T2	731	755	24	0.31	0.32	0.01	0.05	0.06	0	0	0	0	0	0
11/19/2024 18:39	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.19	1	1	0	900	900	0
11/19/2024 18:39	47401	PENS_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
11/19/2024 18:39	14203	EALL_T1	0	0	0	0	0	0	-0.53	-0.5	1	1	0	1200	1200	0
11/19/2024 18:39	25402	LAHA_T2	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
11/19/2024 18:39	65401	MARI_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
11/19/2024 18:39	54201	PENN_T1	3	7	4	1.2	0.61	-0.59	0.12	0.07	0	0	0	0	0	0
11/19/2024 18:39	17802	GILB_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
11/19/2024 18:39	51603	DUKE_T1	1	1	0	0.1	0.1	0	-0.86	-0.91	0	0	0	0	0	0
11/19/2024 18:39	67503	WEWI_T2	1	1	0	7.1	7.6	0.5	0	0	0	0	0	0	0	0
11/19/2024 18:39	67505	WEWI_T1	0	0	0	0	0	0	-0.15	-0.14	1	1	0	900	900	0
11/19/2024 18:39	67002	STHI_T2	293	345	52	0.21	0.22	0.01	0	0	0	0	0	0	0	0
11/19/2024 18:39	47403	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 18:39	54203	PENN_T1	18	18	0	0.78	0.79	0.01	0	0	0	0	0	0	0	0
11/19/2024 18:40	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:40	14704	TREX_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 18:40	54201	PENN_T1	3	7	4	1.2	0.61	-0.59	0	0	0	0	0	0	0	0
11/19/2024 18:40	14802	TREI_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
11/19/2024 18:40	14705	TREX_T1	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
11/19/2024 18:40	55001	NEWP_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
11/19/2024 18:40	52402	GRPA_T2	2	3	1	0.25	0.43	0.18	0	0	0	0	0	0	0	0
11/19/2024 18:40	51602	DUKE_T2	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
11/19/2024 18:40	61001	DONV_T1	0	0	0	0	0	0	-0.04	-0.08	0	0	0	0	0	0
11/19/2024 18:40	45802	HEGI_T2	6	4	-2	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
11/19/2024 18:40	15203	SFAR_T2	0	0	0	0	0	0	-1.33	-1.35	0	0	0	0	0	0
11/19/2024 18:40	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:40	64204	KINZ_T1	3	1	-2	0.47	1	0.53	0	0	0	0	0	0	0	0
11/19/2024 18:40	44503	HAMI_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
11/19/2024 18:40	64201	KINZ_T1	5	1	-4	0.18	1	0.82	-0.57	-0.61	2	2	0	1200	1200	0
11/19/2024 18:40	55002	NEWP_T1	6	4	-2	0.5	0.68	0.18	0	0	0	0	0	0	0	0
11/19/2024 18:40	57403	SPAN_T1	14	21	7	0.23	0.24	0.01	0	0	0	0	0	0	0	0
11/19/2024 18:40	54601	SUMM_T2	0	0	0	0	0	0	-3.07	-3.08	2	2	0	2100	2100	0
11/19/2024 18:40	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:40	60101	COCA_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
11/19/2024 18:40	17805	GILB_T2	0	0	0	0	0	0	-0.72	-0.76	0	0	0	0	0	0
11/19/2024 18:40	48901	FOSP_T2	2	2	0	0.1	0.1	0	0.23	0.22	0	0	0	0	0	0
11/19/2024 18:40	52401	GRPA_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
11/19/2024 18:40	26002	WDAM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:40	64202	KINZ_T1	3	1	-2	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
11/19/2024 18:40	10101	ALLE_T3	2	2	0	4.55	5.9	1.35	0	0	0	0	0	0	0	0
11/19/2024 18:40	54203	PENN_T1	18	18	0	0.78	0.79	0.01	0.53	0.54	0	0	0	0	0	0
11/19/2024 18:40	48902	FOSP_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/19/2024 18:40	44502	HAMI_T2	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0	0
11/19/2024 18:40	57401	SPAN_T1	2	2	0	0.55	0.65	0.1	-0.56	-0.52	0	0	0	0	0	0
11/19/2024 18:40	65502	MOJO_T2	0	0	0	0	0	0	-1.09	-1.07	0	0	0	0	0	0
11/19/2024 18:41	51602	DUKE_T2	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
11/19/2024 18:41	44802	EDAN_T2	0	0	0	0	0	0	-0.94	0	0	0	0	0	0	0
11/19/2024 18:41	20802	LOPO_T1	0	0	0	0	0	0	-0.56	-0.57	1	1	0	600	600	0
11/19/2024 18:41	64801	MONE_T2	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
11/19/2024 18:41	67401	WAKE_T2	0	0	0	0	0	0	-1.23	-1.24	0	0	0	0	0	0
11/19/2024 18:41	65401	MARI_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
11/19/2024 18:41	24105	EHAZ_T1	4	4	0	6.53	6.3	-0.23	0	0	0	0	0	0	0	0
11/19/2024 18:41	24102	EHAZ_T1	3	4	1	0.13	0.3	0.17	0	0	0	0	0	0	0	0
11/19/2024 18:41	40702	FFLD_T1	118	120	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
11/19/2024 18:41	50501	MECH_T1	4	4	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
11/19/2024 18:41	58402	MORO_T1	1	1	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
11/19/2024 18:41	66505	SMAN_T2	3	3	0	0.57	0.43	-0.14	0	0	0	0	0	0	0	0
11/19/2024 18:41	58401	MORO_T1	0	0	0	0	0	0	-1.19	-1.19	1	1	0	600	600	0
11/19/2024 18:41	20201	JERM_T1	0	0	0	0	0	0	0.07	-0.08	2	2	0	2400	2400	0
11/19/2024 18:41	11801	FRAN_T2	0	0	0	0	0	0	0.04	-0.07	0	0	0	0	0	0
11/19/2024 18:41	64802	MONE_T2	4	6	2	0.1	0.12	0.02	0	0	0	0	0	0	0	0
11/19/2024 18:41	57401	SPAN_T1	2	2	0	0.55	0.65	0.1	-0.84	-0.78	0	0	0	0	0	0
11/19/2024 18:41	50502	MECH_T1	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
11/19/2024 18:41	66504	SMAN_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
11/19/2024 18:41	54503	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:41	20801	LOPO_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
11/19/2024 18:41	10801	CHIH_T1	0	0	0	0	0	0	-1.01	-1	1	1	0	900	900	0
11/19/2024 18:41	40703	FFLD_T1	4	4	0	0.63	0.65	0.02	0	0	0	0	0	0	0	0
11/19/2024 18:41	24101	EHAZ_T1	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
11/19/2024 18:41	10702	CATA_T2	1	1	0	0.2	0.1	-0.1	-0.95	-0.97	0	0	0	0	0	0
11/19/2024 18:41	67002	STHI_T2	293	345	52	0.21	0.22	0.01	0.56	0.55	0	0	0	0	0	0
11/19/2024 18:41	24104	EHAZ_T1	0	0	0	0	0	0	-0.92	-0.93	1	1	0	1200	1200	0
11/19/2024 18:41	50505	MECH_T1	0	0	0	0	0	0	-1	-1.02	0	0	0	0	0	0
11/19/2024 18:41	67001	STHI_T2	731	755	24	0.31	0.32	0.01	0	0	0	0	0	0	0	0
11/19/2024 18:41	13101	NHAM_T1	0	0	0	0	0	0	-2.67	-2.61	2	2	0	2400	2400	0
11/19/2024 18:41	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	-1.4	-1.37	1	1	0	600	600	0
11/19/2024 18:41	67503	WEWI_T2	1	1	0	7.1	7.6	0.5	0	0	0	0	0	0	0	0
11/19/2024 18:41	40701	FFLD_T1	56	64	8	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
11/19/2024 18:41	57403	SPAN_T1	14	21	7	0.23	0.24	0.01	0	0	0	0	0	0	0	0
11/19/2024 18:41	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:41	14203	EALL_T1	0	0	0	0	0	0	-0.53	-0.5	1	1	0	1200	1200	0
11/19/2024 18:42	14404	SSLA_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
11/19/2024 18:42	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:42	10101	ALLE_T3	2	2	0	4.55	5.9	1.35	0	0	0	0	0	0	0	0
11/19/2024 18:42	64201	KINZ_T1	5	1	-4	0.18	1	0.82	-0.57	-0.61	2	2	0	1200	1200	0
11/19/2024 18:42	65603	QVIL_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
11/19/2024 18:42	45501	DERR_T2	0	0	0	0	0	0	-0.15	-0.12	2	2	0	1800	1800	0
11/19/2024 18:42	54201	PENN_T1	3	7	4	1.2	0.61	-0.59	0	0	0	0	0	0	0	0
11/19/2024 18:42	52402	GRPA_T2	2	3	1	0.25	0.43	0.18	-0.97	-0.96	0	0	0	0	0	0
11/19/2024 18:42	67001	STHI_T2	731	755	24	0.31	0.32	0.01	0	0	0	0	0	0	0	0
11/19/2024 18:42	15203	SFAR_T2	0	0	0	0	0	0	-1.33	-1.35	0	0	0	0	0	0
11/19/2024 18:42	13302	ORVI_T2	0	0	0	0	0	0	1.35	1.4	0	0	0	0	0	0
11/19/2024 18:42	63501	HEID_TBK1-2	0	0	0	0	0	0	0.41	0.36	0	0	0	0	0	0
11/19/2024 18:42	61001	DONV_T1	0	0	0	0	0	0	-0.04	-0.08	0	0	0	0	0	0
11/19/2024 18:42	15201	SFAR_T1	0	0	0	0	0	0	-0.38	-0.26	2	2	0	2400	2400	0
11/19/2024 18:42	10702	CATA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/19/2024 18:42	14801	TREI_T2	0	0	0	0	0	0	0.4	0.35	0	0	0	0	0	0
11/19/2024 18:42	64204	KINZ_T1	3	1	-2	0.47	1	0.53	0	0	0	0	0	0	0	0
11/19/2024 18:42	64202	KINZ_T1	3	1	-2	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
11/19/2024 18:42	54502	ENOL_T2	0	0	0	0	0	0	-1.39	-1.34	0	0	0	0	0	0
11/19/2024 18:42	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
11/19/2024 18:42	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:42	54203	PENN_T1	18	18	0	0.78	0.79	0.01	0.53	0.54	0	0	0	0	0	0
11/19/2024 18:42	23201	HIRU_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
11/19/2024 18:42	58001	WCAR_T1	3	4	1	0.77	0.93	0.16	0	0	0	0	0	0	0	0
11/19/2024 18:42	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	-4.2	-4.11	3	3	0	1800	1800	0
11/19/2024 18:42	67502	WEWI_T2	0	0	0	0	0	0	-0.69	-0.62	0	0	0	0	0	0
11/19/2024 18:42	67002	STHI_T2	293	345	52	0.21	0.22	0.01	1.12	1.1	0	0	0	0	0	0
11/19/2024 18:42	54503	ENOL_T2	0	0	0	0	0	0	-0.86	-0.84	2	2	0	1200	1200	0
11/19/2024 18:42	16101	BING_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
11/19/2024 18:42	14201	EALL_T1	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
11/19/2024 18:42	45702	LIND_T2	9	80	71	0.34	0.27	-0.07	-1.92	-1.83	0	0	0	0	0	0
11/19/2024 18:42	44802	EDAN_T2	0	0	0	0	0	0	-0.94	0	0	0	0	0	0	0
11/19/2024 18:42	60102	COCA_T1	0	0	0	0	0	0	-0.03	0.04	2	2	0	1200	1200	0
11/19/2024 18:42	67503	WEWI_T2	1	1	0	7.1	7.6	0.5	0	0	0	0	0	0	0	0
11/19/2024 18:42	58003	WCAR_T1	1	1	0	1.3	1.2	-0.1	0.5	0.5	0	0	0	0	0	0
11/19/2024 18:42	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:42	65503	MOJO_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
11/19/2024 18:42	10705	CATA_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
11/19/2024 18:43	57401	SPAN_T1	2	2	0	0.55	0.65	0.1	-0.56	-0.52	0	0	0	0	0	0
11/19/2024 18:43	14203	EALL_T1	0	0	0	0	0	0	-0.53	-0.5	1	1	0	1200	1200	0
11/19/2024 18:43	67502	WEWI_T2	0	0	0	0	0	0	-0.69	-0.62	0	0	0	0	0	0
11/19/2024 18:43	66505	SMAN_T2	3	3	0	0.57	0.43	-0.14	0	0	0	0	0	0	0	0
11/19/2024 18:43	58001	WCAR_T1	3	4	1	0.77	0.93	0.16	0	0	0	0	0	0	0	0
11/19/2024 18:43	57205	ROSS_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
11/19/2024 18:43	40703	FFLD_T1	4	4	0	0.63	0.65	0.02	0	0	0	0	0	0	0	0
11/19/2024 18:43	67401	WAKE_T2	0	0	0	0	0	0	-1.23	-1.24	0	0	0	0	0	0
11/19/2024 18:43	52402	GRPA_T2	2	3	1	0.25	0.43	0.18	0	0	0	0	0	0	0	0
11/19/2024 18:43	10702	CATA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/19/2024 18:43	64902	MILL_T2	0	0	0	0	0	0	-0.92	-0.94	0	0	0	0	0	0
11/19/2024 18:43	40701	FFLD_T1	56	64	8	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
11/19/2024 18:43	67001	STHI_T2	731	755	24	0.31	0.32	0.01	0.05	0.06	0	0	0	0	0	0
11/19/2024 18:43	40702	FFLD_T1	118	120	2	0.3	0.33	0.03	-0.72	-0.63	1	1	0	1200	1200	0
11/19/2024 18:43	54503	ENOL_T2	0	0	0	0	0	0	-0.43	-0.42	1	1	0	600	600	0
11/19/2024 18:43	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/19/2024 18:43	67002	STHI_T2	293	345	52	0.21	0.22	0.01	0.56	0.55	0	0	0	0	0	0
11/19/2024 18:43	10705	CATA_T2	0	0	0	0	0	0	-0.12	-0.16	0	0	0	0	0	0
11/19/2024 18:43	63501	HEID_TBK1-2	0	0	0	0	0	0	0.82	0.73	0	0	0	0	0	0
11/19/2024 18:43	46801	HEPB_T2	13	15	2	0.27	0.28	0.01	0	0	0	0	0	0	0	0
11/19/2024 18:43	58003	WCAR_T1	1	1	0	1.3	1.2	-0.1	0.5	0.5	0	0	0	0	0	0
11/19/2024 18:43	60201	ATGL_T2	0	31	31	0	0.13	0.13	-0.35	-0.37	0	0	0	0	0	0
11/19/2024 18:43	46803	HEPB_T2	3	3	0	0.17	0.17	0	0.47	0.46	0	0	0	0	0	0
11/19/2024 18:43	67503	WEWI_T2	1	1	0	7.1	7.6	0.5	0	0	0	0	0	0	0	0
11/19/2024 18:43	65401	MARI_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
11/19/2024 18:43	51603	DUKE_T1	1	1	0	0.1	0.1	0	-0.43	-0.46	0	0	0	0	0	0
11/19/2024 18:43	52403	GRPA_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
11/19/2024 18:43	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:43	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:43	57403	SPAN_T1	14	21	7	0.23	0.24	0.01	0	0	0	0	0	0	0	0
11/19/2024 18:43	14802	TREI_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
11/19/2024 18:43	45801	HEGI_T1	0	0	0	0	0	0	-0.34	-0.37	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/19/2024 18:43	54601	SUMM_T2	0	0	0	0	0	0	-3.07	-3.08	2	2	0	2100	2100	0
11/19/2024 18:44	64802	MONE_T2	4	6	2	0.1	0.12	0.02	-0.15	-0.15	0	0	0	0	0	0
11/19/2024 18:44	57201	ROSS_T1	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
11/19/2024 18:44	64902	MILL_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
11/19/2024 18:44	43304	WATS_T2	0	4	4	0	0.9	0.9	0	0	0	0	0	0	0	0
11/19/2024 18:44	57101	SPHI_T2	6	6	0	0.53	0.77	0.24	0	0	0	0	0	0	0	0
11/19/2024 18:44	51603	DUKE_T1	1	1	0	0.1	0.1	0	-0.43	-0.46	0	0	0	0	0	0
11/19/2024 18:44	57106	SPHI_T2	3	3	0	0.8	0.97	0.17	0	0	0	0	0	0	0	0
11/19/2024 18:44	48901	FOSP_T2	2	2	0	0.1	0.1	0	0.23	0.22	0	0	0	0	0	0
11/19/2024 18:44	58401	MORO_T1	0	0	0	0	0	0	-1.19	-1.19	1	1	0	600	600	0
11/19/2024 18:44	45802	HEGI_T2	6	4	-2	0.43	0.3	-0.13	1.29	1.23	0	0	0	0	0	0
11/19/2024 18:44	44802	EDAN_T2	0	0	0	0	0	0	-1.88	0	0	0	0	0	0	0
11/19/2024 18:44	13704	SCHN_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
11/19/2024 18:44	66505	SMAN_T2	3	3	0	0.57	0.43	-0.14	0	0	0	0	0	0	0	0
11/19/2024 18:44	54603	SUMM_T2	0	0	0	0	0	0	-0.52	-0.54	1	1	0	900	900	0
11/19/2024 18:44	43301	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/19/2024 18:44	54503	ENOL_T2	0	0	0	0	0	0	-0.43	-0.42	1	1	0	600	600	0
11/19/2024 18:44	14404	SSLA_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
11/19/2024 18:44	60201	ATGL_T2	0	31	31	0	0.13	0.13	-0.69	-0.74	0	0	0	0	0	0
11/19/2024 18:44	66504	SMAN_T2	0	0	0	0	0	0	-1.22	-1.24	0	0	0	0	0	0
11/19/2024 18:44	57203	ROSS_T1	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
11/19/2024 18:44	64702	LITI_T2	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
11/19/2024 18:44	54501	ENOL_T2	0	0	0	0	0	0	0.24	0.33	0	0	0	0	0	0
11/19/2024 18:44	67503	WEWI_T2	1	1	0	7.1	7.6	0.5	0	0	0	0	0	0	0	0
11/19/2024 18:44	40802	EXCH_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
11/19/2024 18:44	48902	FOSP_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/19/2024 18:44	58402	MORO_T1	1	1	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
11/19/2024 18:44	57104	SPHI_T2	1	1	0	1.5	1.4	-0.1	-0.24	-0.24	0	0	0	0	0	0
11/19/2024 18:44	55101	WERT_T1	0	0	0	0	0	0	-1.16	-1.08	1	1	0	600	600	0
11/19/2024 18:44	52402	GRPA_T2	2	3	1	0.25	0.43	0.18	-0.97	-0.96	0	0	0	0	0	0
11/19/2024 18:44	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/19/2024 18:44	67502	WEWI_T2	0	0	0	0	0	0	-0.69	-0.62	0	0	0	0	0	0
11/19/2024 18:44	22602	KIMB_T1	1	0	-1	8.8	0	-8.8	0.26	0.27	0	0	0	0	0	0
11/19/2024 18:45	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:45	22903	HARW_T1	6	10	4	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
11/19/2024 18:45	64305	LINC_T1	0	0	0	0	0	0	-0.4	-0.5	0	0	0	0	0	0
11/19/2024 18:45	65502	MOJO_T2	0	0	0	0	0	0	-1.09	-1.07	0	0	0	0	0	0
11/19/2024 18:45	64204	KINZ_T1	1	1	0	0.8	1.4	0.6	0	0	0	0	0	0	0	0
11/19/2024 18:45	48902	FOSP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 18:45	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/19/2024 18:45	12001	HATF_T1	0	0	0	0	0	0	2.29	2.32	2	2	0	1200	1200	0
11/19/2024 18:45	14801	TREI_T2	0	0	0	0	0	0	0.4	0.35	0	0	0	0	0	0
11/19/2024 18:45	47403	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 18:45	64202	KINZ_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/19/2024 18:45	22901	HARW_T1	3	0	-3	0.87	0	-0.87	-0.39	-0.44	1	1	0	1200	1200	0
11/19/2024 18:45	66505	SMAN_T2	3	3	0	0.37	0.47	0.1	0	0	0	0	0	0	0	0
11/19/2024 18:45	57201	ROSS_T1	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
11/19/2024 18:45	48901	FOSP_T2	0	2	2	0	0.1	0.1	0.46	0.44	0	0	0	0	0	0
11/19/2024 18:45	67502	WEWI_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
11/19/2024 18:45	60301	TWVA_T2	0	0	0	0	0	0	-6.95	-5.63	4	2	-2	3600	2400	-1200
11/19/2024 18:45	64303	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:45	45702	LIND_T2	80	2	-78	0.27	0.7	0.43	-1.92	-1.83	0	0	0	0	0	0
11/19/2024 18:45	58202	NEWV_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
11/19/2024 18:45	52502	PROG_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
11/19/2024 18:45	65503	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:45	22905	HARW_T1	0	14	14	0	0.38	0.38	0	0	0	0	0	0	0	0
11/19/2024 18:45	51602	DUKE_T2	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
11/19/2024 18:45	62102	ELAN_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
11/19/2024 18:45	54505	ENOL_T2	1	1	0	0.3	0.3	0	-1.4	-1.37	1	1	0	600	600	0
11/19/2024 18:45	40802	EXCH_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
11/19/2024 18:45	14204	EALL_T2	0	0	0	0	0	0	0.17	0.08	0	0	0	0	0	0
11/19/2024 18:45	47401	PENS_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
11/19/2024 18:45	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:45	55001	NEWP_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
11/19/2024 18:45	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:45	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
11/19/2024 18:45	64201	KINZ_T1	1	4	3	1	0.33	-0.67	0	0	0	0	0	0	0	0
11/19/2024 18:45	67503	WEWI_T2	1	1	0	7.6	7.3	-0.3	0	0	0	0	0	0	0	0
11/19/2024 18:45	58003	WCAR_T1	1	1	0	1.2	1.1	-0.1	0.5	0.5	0	0	0	0	0	0
11/19/2024 18:45	55002	NEWP_T1	4	4	0	0.55	0.68	0.13	0	0	0	0	0	0	0	0
11/19/2024 18:45	63803	HEMP_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
11/19/2024 18:45	40801	EXCH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/19/2024 18:45	67501	WEWI_T1	0	0	0	0	0	0	-0.66	-0.69	0	0	0	0	0	0
11/19/2024 18:45	58001	WCAR_T1	4	4	0	0.93	0.85	-0.08	0	0	0	0	0	0	0	0
11/19/2024 18:46	66505	SMAN_T2	3	3	0	0.37	0.47	0.1	0	0	0	0	0	0	0	0
11/19/2024 18:46	12002	HATF_T1	0	0	0	0	0	0	0.05	0.2	1	1	0	1200	1200	0
11/19/2024 18:46	48901	FOSP_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 18:46	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
11/19/2024 18:46	15203	WAR_T2	0	0	0	0	0	0	-1.33	-1.35	0	0	0	0	0	0
11/19/2024 18:46	64303	LINC_T1	0	1	1	0	0	0	-0.24	-0.24	0	0	0	0	0	0
11/19/2024 18:46	57401	SPAN_T1	2	2	0	0.65	0.65	0	-0.28	-0.26	0	0	0	0	0	0
11/19/2024 18:46	10705	CATA_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
11/19/2024 18:46	66902	SHIL_T2	0	0	0	0	0	0	-0.95	-0.99	0	0	0	0	0	0
11/19/2024 18:46	10702	CATA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/19/2024 18:46	48902	FOSP_T2	0	1	1	0	0.1	0.1	0.05	0.03	0	0	0	0	0	0
11/19/2024 18:46	59201	THOM_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
11/19/2024 18:46	67605	WARW_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
11/19/2024 18:46	59202	THOM_T1	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
11/19/2024 18:46	57403	SPAN_T1	20	16	-4	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
11/19/2024 18:46	23901	EFMO_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
11/19/2024 18:46	61002	DONV_T2	0	0	0	0	0	0	-0.58	-0.62	1	1	0	600	600	0
11/19/2024 18:46	52502	PROG_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
11/19/2024 18:46	43302	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/19/2024 18:46	65401	MARI_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
11/19/2024 18:46	43304	WATS_T2	3	4	1	0.9	0.9	0	0	0	0	0	0	0	0	0
11/19/2024 18:46	67604	WARW_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
11/19/2024 18:46	40801	EXCH_T2	0	1	1	0	0.2	0.2	-0.51	-0.5	1	1	0	1200	1200	0
11/19/2024 18:47	45501	DERR_T2	0	0	0	0	0	0	-0.15	-0.12	2	2	0	1800	1800	0
11/19/2024 18:47	64802	MONE_T2	6	0	-6	0.12	0	-0.12	-0.15	-0.15	0	0	0	0	0	0
11/19/2024 18:47	64203	KINZ_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
11/19/2024 18:47	54503	ENOL_T2	0	0	0	0	0	0	-0.43	-0.42	1	1	0	600	600	0
11/19/2024 18:47	20601	GRWO_T2	52	35	-17	0.22	0.17	-0.05	0	0	0	0	0	0	0	0
11/19/2024 18:47	64201	KINZ_T1	1	4	3	1	0.33	-0.67	0	0	0	0	0	0	0	0
11/19/2024 18:47	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:47	52502	PROG_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
11/19/2024 18:47	54504	ENOL_T2	0	0	0	0	0	0	-2.24	-2.22	2	2	0	1200	1200	0
11/19/2024 18:47	66504	SMAN_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
11/19/2024 18:47	66505	SMAN_T2	3	3	0	0.37	0.47	0.1	0	0	0	0	0	0	0	0
11/19/2024 18:47	20603	GRWO_T2	45	56	11	0.4	0.34	-0.06	0.32	0.34	0	0	0	0	0	0
11/19/2024 18:47	44801	EDAN_T2	0	0	0	0	0	0	-0.47	-1.43	0	0	0	0	0	0
11/19/2024 18:47	54505	ENOL_T2	1	1	0	0.3	0.3	0	-1.4	-1.37	1	1	0	600	600	0
11/19/2024 18:47	64202	KINZ_T1	1	2	1	0.1	0.15	0.05	0.67	0.63	0	0	0	0	0	0
11/19/2024 18:47	66503	SMAN_T2	0	0	0	0	0	0	0.32	0.35	0	0	0	0	0	0
11/19/2024 18:47	67106	SPRI_T2	0	0	0	0	0	0	-1.37	-1.36	1	1	0	900	900	0
11/19/2024 18:47	64204	KINZ_T1	1	1	0	0.8	1.4	0.6	0	0	0	0	0	0	0	0
11/19/2024 18:47	62102	ELAN_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
11/19/2024 18:47	21901	HUMB_T1	0	0	0	0	0	0	-0.93	-0.91	0	0	0	0	0	0
11/19/2024 18:47	24901	WHHA_T1	0	0	0	0	0	0	0.48	0.53	0	0	0	0	0	0
11/19/2024 18:47	54603	SUMM_T2	0	0	0	0	0	0	-0.52	-0.54	1	1	0	900	900	0
11/19/2024 18:47	67001	STHI_T2	729	710	-19	0.3	0.34	0.04	0.1	0.12	0	0	0	0	0	0
11/19/2024 18:47	51603	DUKE_T1	1	1	0	0.1	0.1	0	-0.43	-0.46	0	0	0	0	0	0
11/19/2024 18:47	14401	SSLA_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
11/19/2024 18:47	67401	WAKE_T2	0	0	0	0	0	0	-1.23	-1.24	0	0	0	0	0	0
11/19/2024 18:47	24902	WHHA_T1	5	3	-2	0.22	0.3	0.08	0	0	0	0	0	0	0	0
11/19/2024 18:47	43304	WATS_T2	3	4	1	0.9	0.9	0	0	0	1	1	0	600	600	0
11/19/2024 18:47	67002	STHI_T2	309	335	26	0.21	0.23	0.02	1.68	1.65	0	0	0	0	0	0
11/19/2024 18:47	63501	HEID_TBK1-2	0	1	1	0	0.5	0.5	0.41	0.36	0	0	0	0	0	0
11/19/2024 18:48	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
11/19/2024 18:48	54505	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/19/2024 18:48	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:48	67401	WAKE_T2	0	0	0	0	0	0	-1.23	-1.24	0	0	0	0	0	0
11/19/2024 18:48	46004	BERW_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
11/19/2024 18:48	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
11/19/2024 18:48	10701	CATA_T2	0	0	0	0	0	0	-0.78	-0.81	0	0	0	0	0	0
11/19/2024 18:48	48901	FOSP_T2	0	2	2	0	0.1	0.1	0.23	0.22	0	0	0	0	0	0
11/19/2024 18:48	45802	HEGI_T2	3	22	19	0.3	0.45	0.15	0	0	0	0	0	0	0	0
11/19/2024 18:48	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:48	63801	HEMP_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
11/19/2024 18:48	65603	QVIL_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
11/19/2024 18:48	48902	FOSP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 18:48	10702	CATA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/19/2024 18:48	45501	DERR_T2	0	0	0	0	0	0	-0.15	-0.12	2	2	0	1800	1800	0
11/19/2024 18:48	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
11/19/2024 18:48	44801	EDAN_T2	0	0	0	0	0	0	-0.47	-1.43	0	0	0	0	0	0
11/19/2024 18:48	54502	ENOL_T2	0	0	0	0	0	0	-2.79	-2.67	0	0	0	0	0	0
11/19/2024 18:48	41501	FAIR_T2	0	0	0	0	0	0	-1.13	-1.11	1	1	0	600	600	0
11/19/2024 18:48	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
11/19/2024 18:48	67201	TEHI_T1	0	0	0	0	0	0	0.15	0.03	1	1	0	900	900	0
11/19/2024 18:49	48901	FOSP_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 18:49	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:49	54504	ENOL_T2	0	0	0	0	0	0	-1.12	-1.11	1	1	0	600	600	0
11/19/2024 18:49	51904	COPA_T1	5	5	0	0.46	0.54	0.08	0	0	0	0	0	0	0	0
11/19/2024 18:49	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:49	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
11/19/2024 18:49	57403	SPAN_T1	20	16	-4	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
11/19/2024 18:49	40801	EXCH_T2	0	1	1	0	0.2	0.2	-0.51	-0.5	1	1	0	1200	1200	0
11/19/2024 18:49	44802	EDAN_T2	0	0	0	0	0	0	-0.94	0	0	0	0	0	0	0
11/19/2024 18:49	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
11/19/2024 18:49	57401	SPAN_T1	2	2	0	0.65	0.65	0	-0.28	-0.26	0	0	0	0	0	0
11/19/2024 18:49	51906	COPA_T1	0	2	2	0	0	0	-1.14	-1.12	2	2	0	1500	1500	0
11/19/2024 18:49	54505	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/19/2024 18:49	48902	FOSP_T2	0	1	1	0	0.1	0.1	0.05	-0.03	0	0	0	0	0	0
11/19/2024 18:49	57203	ROSS_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/19/2024 18:50	67502	WEWI_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
11/19/2024 18:50	54601	SUMM_T2	0	0	0	0	0	0	-3.07	-3.08	2	2	0	2100	2100	0
11/19/2024 18:50	57401	SPAN_T1	2	2	0	0.65	0.65	0	-0.28	-0.26	0	0	0	0	0	0
11/19/2024 18:50	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:50	67001	STHI_T2	729	710	-19	0.3	0.34	0.04	0	0	0	0	0	0	0	0
11/19/2024 18:50	65603	QVIL_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
11/19/2024 18:50	46004	BERW_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
11/19/2024 18:50	57403	SPAN_T1	20	16	-4	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
11/19/2024 18:50	67002	STHI_T2	309	335	26	0.21	0.23	0.02	0.56	0.55	0	0	0	0	0	0
11/19/2024 18:50	10801	CHHI_T1	0	0	0	0	0	0	-1.01	-1	1	1	0	900	900	0
11/19/2024 18:50	63501	HEID_TBK1-2	0	1	1	0	0.5	0.5	0.41	0.36	0	0	0	0	0	0
11/19/2024 18:50	14802	TREI_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
11/19/2024 18:50	60801	BUCK_T1	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
11/19/2024 18:50	67503	WEWI_T2	1	1	0	7.6	7.3	-0.3	0	0	0	0	0	0	0	0
11/19/2024 18:50	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:50	44802	EDAN_T2	0	0	0	0	0	0	-0.94	0	0	0	0	0	0	0
11/19/2024 18:51	67401	WAKE_T2	0	0	0	0	0	0	-1.24	-1.24	0	0	0	0	0	0
11/19/2024 18:51	54506	ENOL_T2	0	0	0	0	0	0	0.51	0.53	1	1	0	600	600	0
11/19/2024 18:51	54505	ENOL_T2	1	1	0	0.3	0.3	0	-1.37	-1.4	1	1	0	600	600	0
11/19/2024 18:51	12302	LANA_T2	0	0	0	0	0	0	-1.76	-1.77	2	2	0	1500	1500	0
11/19/2024 18:51	48902	FOSP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 18:51	64702	LITI_T2	0	0	0	0	0	0	-0.76	-0.75	0	0	0	0	0	0
11/19/2024 18:51	14802	TREI_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
11/19/2024 18:51	65401	MARI_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
11/19/2024 18:51	14201	EALL_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
11/19/2024 18:51	48901	FOSP_T2	0	2	2	0	0.1	0.1	0.23	0.22	0	0	0	0	0	0
11/19/2024 18:52	51603	DUKE_T1	1	1	0	0.1	0.1	0	-0.46	-0.48	0	0	0	0	0	0
11/19/2024 18:52	48901	FOSP_T2	0	2	2	0	0.1	0.1	0.22	0.25	0	0	0	0	0	0
11/19/2024 18:52	65401	MARI_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
11/19/2024 18:52	47802	MOCA_T2	1	0	-1	0.6	0	-0.6	0.41	0.41	0	0	0	0	0	0
11/19/2024 18:52	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0.75	0.72	0	0	0	0	0	0
11/19/2024 18:52	57403	SPAN_T1	20	16	-4	0.24	0.23	-0.01	0.02	0.01	0	0	0	0	0	0
11/19/2024 18:52	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:52	57401	SPAN_T1	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0	0
11/19/2024 18:52	48902	FOSP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/19/2024 18:53	67001	STHI_T2	729	710	-19	0.3	0.34	0.04	0	0	0	0	0	0	0	0
11/19/2024 18:53	40801	EXCH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/19/2024 18:53	65503	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:53	67002	STHI_T2	309	335	26	0.21	0.23	0.02	0.55	0.61	0	0	0	0	0	0
11/19/2024 18:53	44502	DERR_T2	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
11/19/2024 18:53	40802	EXCH_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
11/19/2024 18:53	57401	SPAN_T1	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0	0
11/19/2024 18:53	57403	SPAN_T1	20	16	-4	0.24	0.23	-0.01	0.02	0.01	0	0	0	0	0	0
11/19/2024 18:53	65502	MOJO_T2	0	0	0	0	0	0	-1.07	-1.15	0	0	0	0	0	0
11/19/2024 18:53	60102	COCA_T1	0	0	0	0	0	0	0.04	-0.32	2	2	0	1200	1200	0
11/19/2024 18:53	13704	SCHN_T2	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
11/19/2024 18:54	64201	KINZ_T1	1	4	3	1	0.33	-0.67	0	0	0	0	0	0	0	0
11/19/2024 18:54	40801	EXCH_T2	0	1	1	0	0.2	0.2	-0.5	-0.51	1	1	0	1200	1200	0
11/19/2024 18:54	64204	KINZ_T1	1	1	0	0.8	1.4	0.6	0	0	0	0	0	0	0	0
11/19/2024 18:54	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:54	64202	KINZ_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/19/2024 18:54	60201	ATGL_T2	21	34	13	0.14	0.12	-0.02	0	0	0	0	0	0	0	0
11/19/2024 18:54	65503	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:54	64203	KINZ_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
11/19/2024 18:55	40703	FFLD_T1	4	4	0	0.63	0.75	0.12	0	0	0	0	0	0	0	0
11/19/2024 18:55	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:55	40701	FFLD_T1	51	72	21	0.49	0.5	0.01	0	0	0	0	0	0	0	0
11/19/2024 18:55	40702	FFLD_T1	115	160	45	0.31	0.4	0.09	0	0	0	0	0	0	0	0
11/19/2024 18:55	40801	EXCH_T2	0	1	1	0	0.2	0.2	-0.5	-0.51	1	1	0	1200	1200	0
11/19/2024 18:55	57205	ROSS_T1	0	0	0	0	0	0	0.02	0.07	0	0	0	0	0	0
11/19/2024 18:56	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 18:58	46506	LOHA_T1	4	5	1	2.38	2.1	-0.28	0	0	0	0	0	0	0	0
11/19/2024 18:58	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
11/19/2024 18:59	47502	NECO_T1	80	30	-50	0.28	0.33	0.05	0.91	1.15	0	0	0	0	0	0
11/19/2024 19:03	44801	EDAN_T2	0	0	0	0	0	0	-1.43	-1.43	0	0	0	0	0	0
11/19/2024 19:05	67402	WAKE_T2	0	0	0	0	0	0	0.16	-0.49	0	1	1	0	600	600
11/19/2024 19:15	60101	COCA_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
11/19/2024 19:17	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/19/2024 19:35	13905	SEID_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
11/19/2024 19:41	14203	EALL_T1	0	0	0	0	0	0	-0.6	-0.61	1	1	0	1200	1200	0
11/19/2024 20:00	64904	MILL_T1	8	105	97	0.11	0.14	0.03	-0.59	-0.55	0	0	0	0	0	0
11/19/2024 20:00	64901	MILL_T1	36	63	27	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
11/19/2024 20:01	65003	NEFF_T2	5	19	14	0.22	0.13	-0.09	0	0	0	0	0	0	0	0
11/19/2024 20:01	65004	NEFF_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
11/19/2024 23:45	54501	ENOL_T2	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/19/2024 23:45	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	-1.42	-1.43	1	1	0	600	600	0
11/19/2024 23:45	54502	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
11/20/2024 0:16	17805	GILB_T2	0	0	0	0	0	0	-1.01	-0.99	0	0	0	0	0	0
11/20/2024 1:01	14801	TREI_T2	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
11/20/2024 1:01	14802	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/20/2024 8:03	42902	MIDD_T2	0	0	0	0	0	0	-0.29	-0.2	0	0	0	0	0	0
11/20/2024 8:03	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 8:04	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 8:04	42902	MIDD_T2	0	0	0	0	0	0	-0.29	-0.2	0	0	0	0	0	0
11/20/2024 8:14	54502	ENOL_T2	1	1	0	0.2	1.1	0.9	-2.15	-2.11	1	1	0	600	600	0
11/20/2024 8:14	54505	ENOL_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
11/20/2024 8:15	55501	HERS_T1	0	52	52	0	0.11	0.11	0	0	0	0	0	0	0	0
11/20/2024 8:15	55503	HERS_T1	0	0	0	0	0	0	-1.73	-1.73	1	1	0	1200	1200	0
11/20/2024 8:15	55507	HERS_T1	42	65	23	0.27	0.35	0.08	0	0	0	0	0	0	0	0
11/20/2024 8:17	47104	MARL_T1	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
11/20/2024 8:22	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/20/2024 8:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 8:25	54502	ENOL_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
11/20/2024 8:25	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	-2.64	-2.66	2	2	0	1200	1200	0
11/20/2024 8:26	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	-1.32	-1.33	1	1	0	600	600	0
11/20/2024 8:26	54502	ENOL_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
11/20/2024 8:30	54505	ENOL_T2	1	1	0	0.9	0.8	-0.1	-1.32	-1.33	1	1	0	600	600	0
11/20/2024 8:30	54502	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
11/20/2024 8:37	10101	ALLE_T3	2	2	0	5.05	3.15	-1.9	0	0	0	0	0	0	0	0
11/20/2024 8:37	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 8:38	10101	ALLE_T3	2	2	0	5.05	3.15	-1.9	0	0	0	0	0	0	0	0
11/20/2024 8:38	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 8:44	40101	HUNT_T2	1	2	1	1.3	1.2	-0.1	-0.44	-0.42	0	0	0	0	0	0
11/20/2024 8:55	58001	WCAR_T1	4	4	0	1.18	1.08	-0.1	0	0	0	0	0	0	0	0
11/20/2024 8:55	58003	WCAR_T1	1	1	0	1.1	1	-0.1	0.69	0.76	0	0	0	0	0	0
11/20/2024 8:57	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.25	0.12	2	2	0	1800	1800	0
11/20/2024 9:00	64202	KINZ_T1	3	3	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
11/20/2024 9:00	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.37	-0.29	0	0	0	0	0	0
11/20/2024 9:00	64201	KINZ_T1	0	0	0	0	0	0	-0.22	-0.38	3	3	0	1500	1500	0
11/20/2024 9:00	57203	ROSS_T1	0	0	0	0	0	0	0.24	0.31	0	0	0	0	0	0
11/20/2024 9:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 9:00	58001	WCAR_T1	4	4	0	1.08	1	-0.08	0	0	0	0	0	0	0	0
11/20/2024 9:00	55002	NEWP_T1	6	6	0	0.83	0.73	-0.1	0	0	0	0	0	0	0	0
11/20/2024 9:00	58003	WCAR_T1	1	1	0	1	1	0	0.69	0.76	0	0	0	0	0	0
11/20/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.29	0.23	0	0	0	0	0	0
11/20/2024 9:00	40101	HUNT_T2	2	1	-1	0.8	1	0.2	-0.42	-0.4	0	0	0	0	0	0
11/20/2024 9:00	64204	KINZ_T1	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
11/20/2024 9:02	55002	NEWP_T1	6	6	0	0.83	0.73	-0.1	-0.26	-0.25	0	0	0	0	0	0
11/20/2024 9:02	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/20/2024 9:04	55002	NEWP_T1	6	6	0	0.83	0.73	-0.1	-0.52	-0.5	0	0	0	0	0	0
11/20/2024 9:04	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/20/2024 9:05	55002	NEWP_T1	6	6	0	0.83	0.73	-0.1	0	0	0	0	0	0	0	0
11/20/2024 9:05	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.37	-0.29	0	0	0	0	0	0
11/20/2024 9:08	10101	ALLE_T3	2	2	0	3.6	5.25	1.65	0	0	0	0	0	0	0	0
11/20/2024 9:08	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 9:11	54502	ENOL_T2	1	1	0	1.1	1.2	0.1	-2.12	-2.12	1	1	0	600	600	0
11/20/2024 9:11	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/20/2024 9:12	54502	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
11/20/2024 9:12	54503	ENOL_T2	0	0	0	0	0	0	-0.47	-0.48	1	1	0	600	600	0
11/20/2024 9:12	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/20/2024 9:13	54502	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
11/20/2024 9:13	54506	ENOL_T2	0	0	0	0	0	0	0.3	0.36	1	1	0	600	600	0
11/20/2024 9:13	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/20/2024 9:13	54501	ENOL_T2	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
11/20/2024 9:14	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/20/2024 9:14	54502	ENOL_T2	1	1	0	1.1	1.2	0.1	-2.12	-2.12	1	1	0	600	600	0
11/20/2024 9:14	63501	HEID_TBK1-2	40	40	0	0.31	0.36	0.05	-0.1	0.17	5	5	0	4500	4500	0
11/20/2024 9:15	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 9:16	65401	MARI_T1	0	0	0	0	0	0	0.33	0.42	0	0	0	0	0	0
11/20/2024 9:17	65202	PRIN_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
11/20/2024 9:17	65205	PRIN_T1	1	2	1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/20/2024 9:17	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 9:18	65401	MARI_T1	0	0	0	0	0	0	0.66	0.83	0	0	0	0	0	0
11/20/2024 9:18	67605	WARW_T1	35	36	1	0.54	0.55	0.01	0	0	0	0	0	0	0	0
11/20/2024 9:18	67604	WARW_T1	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
11/20/2024 9:19	65401	MARI_T1	0	0	0	0	0	0	0.66	0.83	0	0	0	0	0	0
11/20/2024 9:19	25402	LAHA_T2	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
11/20/2024 9:20	52401	GRPA_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
11/20/2024 9:20	65401	MARI_T1	0	0	0	0	0	0	0.33	0.42	0	0	0	0	0	0
11/20/2024 9:20	52402	GRPA_T2	9	9	0	0.21	0.24	0.03	0	0	0	0	0	0	0	0
11/20/2024 9:20	52403	GRPA_T2	4	5	1	0.55	0.72	0.17	0	0	0	0	0	0	0	0
11/20/2024 9:21	58001	WCAR_T1	4	4	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/20/2024 9:21	58003	WCAR_T1	1	1	0	1	1	0	0.74	0.72	0	0	0	0	0	0
11/20/2024 9:22	65202	PRIN_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
11/20/2024 9:22	65205	PRIN_T1	1	2	1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/20/2024 9:22	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/20/2024 9:22	59101	WALK_T2	1	0	-1	3.3	0	-3.3	0	0	0	0	0	0	0	0
11/20/2024 9:22	65603	QVIL_T2	0	0	0	0	0	0	1.15	1.05	0	0	0	0	0	0
11/20/2024 9:22	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 9:22	65601	QVIL_T2	2	0	-2	0.1	0	-0.1	-1.24	-1.28	1	1	0	900	900	0
11/20/2024 9:23	65601	QVIL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/20/2024 9:23	59101	WALK_T2	1	0	-1	3.3	0	-3.3	4.78	3.95	0	0	0	0	0	0
11/20/2024 9:23	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/20/2024 9:24	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/20/2024 9:24	59101	WALK_T2	1	0	-1	3.3	0	-3.3	2.39	1.97	0	0	0	0	0	0
11/20/2024 9:24	43304	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/20/2024 9:24	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/20/2024 9:25	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
11/20/2024 9:25	54502	ENOL_T2	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
11/20/2024 9:25	54501	ENOL_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
11/20/2024 9:28	45501	DERR_T2	0	0	0	0	0	0	0.02	0.33	6	6	0	5400	5400	0
11/20/2024 9:29	23901	EFMO_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
11/20/2024 9:29	64704	LITI_T1	0	0	0	0	0	0	0.08	0.65	1	0	-1	600	0	-600
11/20/2024 9:30	54502	ENOL_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
11/20/2024 9:30	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	-1.36	-1.38	1	1	0	600	600	0
11/20/2024 9:31	64704	LITI_T1	0	0	0	0	0	0	0.08	0.65	1	0	-1	600	0	-600
11/20/2024 9:31	42902	MIDD_T2	0	0	0	0	0	0	-0.57	-0.41	0	0	0	0	0	0
11/20/2024 9:31	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/20/2024 9:32	45702	LIND_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
11/20/2024 9:32	45701	LIND_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
11/20/2024 9:33	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 9:33	65603	QVIL_T2	0	1	1	0	0	0	0.57	0.53	0	0	0	0	0	0
11/20/2024 9:33	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/20/2024 9:34	65603	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 9:34	55001	NEWP_T1	0	1	1	0	0.3	0.3	-0.33	-0.32	0	0	0	0	0	0
11/20/2024 9:34	55002	NEWP_T1	6	7	1	0.7	0.86	0.16	0	0	0	0	0	0	0	0
11/20/2024 9:35	65603	QVIL_T2	0	1	1	0	0	0	0.57	0.53	0	0	0	0	0	0
11/20/2024 9:35	42902	MIDD_T2	0	0	0	0	0	0	-0.29	-0.21	0	0	0	0	0	0
11/20/2024 9:35	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/20/2024 9:36	65603	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 9:37	55001	NEWP_T1	0	1	1	0	0.3	0.3	-0.32	-0.34	0	0	0	0	0	0
11/20/2024 9:37	55002	NEWP_T1	6	7	1	0.7	0.86	0.16	0	0	0	0	0	0	0	0
11/20/2024 9:38	57403	SPAN_T1	0	3	3	0	0.27	0.27	-0.03	-0.06	0	0	0	0	0	0
11/20/2024 9:38	57401	SPAN_T1	2	3	1	0.3	1.07	0.77	0	0	0	0	0	0	0	0
11/20/2024 9:43	44301	BEAV_T2	3	1	-2	0.37	1.6	1.23	0	0	0	0	0	0	0	0
11/20/2024 9:44	63802	HEMP_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/20/2024 9:44	63803	HEMP_T1	3	6	3	0.3	0.35	0.05	0.06	0.09	0	0	0	0	0	0
11/20/2024 9:44	63801	HEMP_T1	1	4	3	0.2	0.33	0.13	0	0	0	0	0	0	0	0
11/20/2024 9:44	63804	HEMP_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
11/20/2024 9:45	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
11/20/2024 9:45	46506	LOHA_T1	3	4	1	5.07	3.63	-1.44	0	0	0	0	0	0	0	0
11/20/2024 9:45	46504	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/20/2024 9:46	63803	HEMP_T1	5	6	1	0.26	0.42	0.16	0	0	0	0	0	0	0	0
11/20/2024 9:46	63801	HEMP_T1	2	4	2	0.3	0.35	0.05	0	0	0	0	0	0	0	0
11/20/2024 9:46	63804	HEMP_T1	1	1	0	5.6	5.5	-0.1	0.85	0.92	0	0	0	0	0	0
11/20/2024 9:46	63802	HEMP_T1	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/20/2024 9:47	63802	HEMP_T1	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/20/2024 9:47	64801	MONE_T2	25	45	20	0.13	0.16	0.03	0.15	0.17	0	0	0	0	0	0
11/20/2024 9:47	63804	HEMP_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
11/20/2024 9:47	63801	HEMP_T1	2	4	2	0.3	0.35	0.05	0	0	0	0	0	0	0	0
11/20/2024 9:47	63803	HEMP_T1	5	6	1	0.26	0.42	0.16	0.06	0.09	0	0	0	0	0	0
11/20/2024 9:47	64802	MONE_T2	80	103	23	0.16	0.24	0.08	0	0	0	0	0	0	0	0
11/20/2024 9:48	65206	PRIN_T4	2	3	1	3.3	0.3	-3	0	0	0	0	0	0	0	0
11/20/2024 9:48	43201	MVIL_T2	0	0	0	0	0	0	-0.33	-0.29	0	0	0	0	0	0
11/20/2024 9:48	65201	PRIN_T4	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
11/20/2024 9:48	65207	PRIN_T4	5	20	15	1.12	0.16	-0.96	0	0	1	1	0	1200	1200	0
11/20/2024 9:49	63801	HEMP_T1	2	4	2	0.3	0.35	0.05	0	0	0	0	0	0	0	0
11/20/2024 9:49	63804	HEMP_T1	1	1	0	5.6	5.5	-0.1	0.85	0.92	0	0	0	0	0	0
11/20/2024 9:49	13303	ORVI_T1	0	0	0	0	0	0	-0.34	-0.25	0	0	0	0	0	0
11/20/2024 9:49	63802	HEMP_T1	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/20/2024 9:49	63803	HEMP_T1	5	6	1	0.26	0.42	0.16	0	0	0	0	0	0	0	0
11/20/2024 9:51	13303	ORVI_T1	0	0	0	0	0	0	-0.34	-0.25	0	0	0	0	0	0
11/20/2024 9:52	65207	PRIN_T4	5	20	15	1.12	0.16	-0.96	0	0	0	0	0	0	0	0
11/20/2024 9:52	67401	WAKE_T2	0	1	1	0	0.2	0.2	-0.87	-0.84	0	0	0	0	0	0
11/20/2024 9:52	65201	PRIN_T4	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
11/20/2024 9:52	65206	PRIN_T4	2	3	1	3.3	0.3	-3	0	0	0	0	0	0	0	0
11/20/2024 9:52	57403	SPAN_T1	1	3	2	0.5	0.27	-0.23	-0.06	-0.04	0	0	0	0	0	0
11/20/2024 9:52	57401	SPAN_T1	3	2	-1	1.07	1.45	0.38	0	0	0	0	0	0	0	0
11/20/2024 9:53	13905	SEID_T1	0	1	1	0	0	0	0.19	0.19	0	0	0	0	0	0
11/20/2024 9:54	57403	SPAN_T1	1	3	2	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
11/20/2024 9:54	57401	SPAN_T1	3	2	-1	1.07	1.45	0.38	0.12	0.09	0	0	0	0	0	0
11/20/2024 9:55	46002	BERW_T2	0	0	0	0	0	0	-0.57	-0.46	1	1	0	900	900	0
11/20/2024 9:55	51603	DUKE_T1	2	3	1	0.3	0.6	0.3	-0.35	-0.43	0	0	0	0	0	0
11/20/2024 9:55	57401	SPAN_T1	3	2	-1	1.07	1.45	0.38	0	0	0	0	0	0	0	0
11/20/2024 9:55	57403	SPAN_T1	1	3	2	0.5	0.27	-0.23	-0.12	-0.08	0	0	0	0	0	0
11/20/2024 9:56	51603	DUKE_T1	2	3	1	0.3	0.6	0.3	-0.35	-0.43	0	0	0	0	0	0
11/20/2024 9:57	51603	DUKE_T1	2	3	1	0.3	0.6	0.3	-0.35	-0.43	0	0	0	0	0	0
11/20/2024 9:58	55001	NEWP_T1	0	1	1	0	0.3	0.3	-0.34	-0.32	0	0	0	0	0	0
11/20/2024 9:58	51603	DUKE_T1	2	3	1	0.3	0.6	0.3	-0.7	-0.87	0	0	0	0	0	0
11/20/2024 9:58	55002	NEWP_T1	6	7	1	0.68	1.26	0.58	0	0	0	0	0	0	0	0
11/20/2024 9:59	10801	CHHI_T1	0	0	0	0	0	0	-0.82	-0.83	1	1	0	900	900	0
11/20/2024 9:59	51602	DUKE_T2	0	0	0	0	0	0	-0.27	-0.23	0	0	0	0	0	0
11/20/2024 10:01	45702	LIND_T2	1	1	0	0.7	0.8	0.1	-1.65	-1.67	0	0	0	0	0	0
11/20/2024 10:02	46501	LOHA_T1	0	0	0	0	0	0	0.01	-0.01	1	1	0	1200	1200	0
11/20/2024 10:02	65503	MOJO_T2	0	0	0	0	0	0	-0.03	0.01	0	0	0	0	0	0
11/20/2024 10:02	46506	LOHA_T1	3	4	1	4.8	3.75	-1.05	0	0	0	0	0	0	0	0
11/20/2024 10:03	65205	PRIN_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/20/2024 10:03	63802	HEMP_T1	2	24	22	0.15	0.16	0.01	0	0	0	0	0	0	0	0
11/20/2024 10:03	63803	HEMP_T1	6	59	53	0.35	0.18	-0.17	0.09	0.03	0	0	0	0	0	0
11/20/2024 10:03	67505	WEWI_T1	0	1	1	0	0.2	0.2	-0.06	-0.06	1	1	0	900	900	0
11/20/2024 10:03	65202	PRIN_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/20/2024 10:03	67501	WEWI_T1	0	6	6	0	0.47	0.47	0	0	0	0	0	0	0	0
11/20/2024 10:03	63801	HEMP_T1	4	10	6	0.33	0.38	0.05	0	0	0	0	0	0	0	0
11/20/2024 10:03	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
11/20/2024 10:03	67502	WEWI_T2	6	42	36	0.32	0.24	-0.08	-0.44	-0.33	0	0	0	0	0	0
11/20/2024 10:03	67503	WEWI_T2	1	1	0	9	9.5	0.5	0	0	0	0	0	0	0	0
11/20/2024 10:04	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 10:05	52401	GRPA_T2	1	2	1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
11/20/2024 10:05	67503	WEWI_T2	1	1	0	9	9.5	0.5	0	0	0	0	0	0	0	0
11/20/2024 10:05	66502	SMAN_T2	6	23	17	0.25	0.25	0	0.33	0.21	0	0	0	0	0	0
11/20/2024 10:05	66504	SMAN_T2	4	7	3	0.48	0.53	0.05	0	0	0	0	0	0	0	0
11/20/2024 10:05	52403	GRPA_T2	14	13	-1	0.58	0.69	0.11	0	-0.21	0	0	0	0	0	0
11/20/2024 10:05	66501	SMAN_T2	2	2	0	0.35	0.7	0.35	0	0	0	0	0	0	0	0
11/20/2024 10:05	67502	WEWI_T2	6	42	36	0.32	0.24	-0.08	-0.44	-0.33	0	0	0	0	0	0
11/20/2024 10:05	52402	GRPA_T2	7	10	3	0.36	0.59	0.23	0	0	0	0	0	0	0	0
11/20/2024 10:06	66502	SMAN_T2	6	23	17	0.25	0.25	0	0.1	0.25	0	0	0	0	0	0
11/20/2024 10:06	66501	SMAN_T2	2	2	0	0.35	0.7	0.35	0	0	0	0	0	0	0	0
11/20/2024 10:06	66504	SMAN_T2	4	7	3	0.48	0.53	0.05	0	0	0	0	0	0	0	0
11/20/2024 10:07	58003	WCAR_T1	1	1	0	1.6	1.5	-0.1	0.73	0.76	0	0	0	0	0	0
11/20/2024 10:07	66504	SMAN_T2	4	7	3	0.48	0.53	0.05	-1.09	-1.31	0	0	0	0	0	0
11/20/2024 10:07	66503	SMAN_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
11/20/2024 10:07	66501	SMAN_T2	2	2	0	0.35	0.7	0.35	0	0	0	0	0	0	0	0
11/20/2024 10:07	58001	WCAR_T1	4	4	0	1.03	1.63	0.6	0	0	0	0	0	0	0	0
11/20/2024 10:07	66502	SMAN_T2	6	23	17	0.25	0.25	0	0.1	0.25	0	0	0	0	0	0
11/20/2024 10:08	66504	SMAN_T2	4	7	3	0.48	0.53	0.05	-0.36	-0.44	0	0	0	0	0	0
11/20/2024 10:08	58003	WCAR_T1	1	1	0	1.6	1.5	-0.1	0.73	0.76	0	0	0	0	0	0
11/20/2024 10:08	58001	WCAR_T1	4	4	0	1.03	1.63	0.6	0	0	0	0	0	0	0	0
11/20/2024 10:08	66501	SMAN_T2	2	2	0	0.35	0.7	0.35	0	0	0	0	0	0	0	0
11/20/2024 10:08	66502	SMAN_T2	6	23	17	0.25	0.25	0	0.21	0.49	0	0	0	0	0	0
11/20/2024 10:08	67201	TEHI_T1	0	0	0	0	0	0	1.2	0.7	1	1	0	900	900	0
11/20/2024 10:11	55002	NEWP_T1	7	7	0	0.86	1.31	0.45	0	0	0	0	0	0	0	0
11/20/2024 10:11	55001	NEWP_T1	1	1	0	0.3	0.3	0	-0.32	-0.3	0	0	0	0	0	0
11/20/2024 10:12	44502	HAMI_T2	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
11/20/2024 10:12	44903	SCOT_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
11/20/2024 10:12	44505	HAMI_T2	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
11/20/2024 10:15	44502	HAMI_T2	1	1	0	3.1	3.3	0.2	0	0	0	0	0	0	0	0
11/20/2024 10:15	44505	HAMI_T2	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
11/20/2024 10:18	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/20/2024 10:18	65802	RTWN_T2	0	0	0	0	0	0	-0.3	-0.25	0	0	0	0	0	0
11/20/2024 10:18	42902	MIDD_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
11/20/2024 10:19	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
11/20/2024 10:19	63803	HEMP_T1	5	59	54	0.44	0.18	-0.26	0.03	0.09	0	0	0	0	0	0
11/20/2024 10:19	63802	HEMP_T1	3	24	21	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
11/20/2024 10:19	63801	HEMP_T1	3	10	7	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
11/20/2024 10:20	66504	SMAN_T2	5	7	2	0.44	0.53	0.09	0	0	0	0	0	0	0	0
11/20/2024 10:20	66502	SMAN_T2	13	23	10	0.22	0.25	0.03	0.1	0.25	0	0	0	0	0	0
11/20/2024 10:20	54602	SUMM_T2	3	13	10	0.1	0.22	0.12	0	0	0	0	0	0	0	0
11/20/2024 10:20	54601	SUMM_T2	11	12	1	0.45	0.62	0.17	-3.07	-3.05	2	2	0	2100	2100	0
11/20/2024 10:20	42902	MIDD_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
11/20/2024 10:20	66501	SMAN_T2	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
11/20/2024 10:20	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/20/2024 10:21	54602	SUMM_T2	3	13	10	0.1	0.22	0.12	0	0	0	0	0	0	0	0
11/20/2024 10:21	54601	SUMM_T2	11	12	1	0.45	0.62	0.17	-3.05	-3.08	2	2	0	2100	2100	0
11/20/2024 10:21	42902	MIDD_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
11/20/2024 10:21	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/20/2024 10:24	46001	BERW_T1	0	0	0	0	0	0	0.36	0.62	0	0	0	0	0	0
11/20/2024 10:25	46001	BERW_T1	0	0	0	0	0	0	0.36	0.62	0	0	0	0	0	0
11/20/2024 10:29	20603	GRWO_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
11/20/2024 10:32	45702	LIND_T2	0	1	1	0	1.5	1.5	-1.69	-1.7	0	0	0	0	0	0
11/20/2024 10:32	46504	LOHA_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
11/20/2024 10:32	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
11/20/2024 10:32	46506	LOHA_T1	4	4	0	3.75	4.23	0.48	0	0	0	0	0	0	0	0
11/20/2024 10:33	47403	PENS_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
11/20/2024 10:33	47401	PENS_T1	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
11/20/2024 10:36	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 10:38	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 10:42	45802	HEGI_T2	4	12	8	0.25	0	-0.25	0	0	0	0	0	0	0	0
11/20/2024 10:47	45802	HEGI_T2	12	9	-3	0.28	0.26	-0.02	1.3	0.81	2	4	2	1800	2400	600
11/20/2024 10:49	46505	LOHA_T1	0	0	0	0	0	0	-0.35	-0.35	1	1	0	600	600	0
11/20/2024 10:49	46504	LOHA_T1	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
11/20/2024 10:49	46506	LOHA_T1	4	3	-1	4.05	5.6	1.55	0	0	0	0	0	0	0	0
11/20/2024 10:53	13303	ORVI_T1	0	0	0	0	0	0	-0.38	-0.33	0	0	0	0	0	0
11/20/2024 11:01	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 11:01	58003	WCAR_T1	1	1	0	1.2	1.3	0.1	0.75	0.76	0	0	0	0	0	0
11/20/2024 11:01	57201	ROSS_T1	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
11/20/2024 11:01	58402	MORO_T1	1	1	0	0.4	0.6	0.2	-0.07	-0.07	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/20/2024 11:01	54505	ENOL_T2	1	1	0	0.8	0.8	0	-1.41	-1.41	1	1	0	600	600	0
11/20/2024 11:01	54502	ENOL_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
11/20/2024 11:01	60803	BUCK_T1	15	15	0	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
11/20/2024 11:01	54602	SUMM_T2	12	13	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
11/20/2024 11:01	58001	WCAR_T1	4	4	0	1.15	1.53	0.38	0	0	0	0	0	0	0	0
11/20/2024 11:01	60801	BUCK_T1	0	1	1	0	0.5	0.5	0.21	0.24	0	0	0	0	0	0
11/20/2024 11:01	53501	EVIL_T2	2	3	1	0.35	1.05	0.7	0	0	0	0	0	0	0	0
11/20/2024 11:01	54601	SUMM_T2	12	13	1	0.56	0.64	0.08	-12.17	-12.12	8	8	0	8400	8400	0
11/20/2024 11:01	65802	RTWN_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
11/20/2024 11:01	57205	ROSS_T1	2	3	1	0.75	0.83	0.08	0.22	0.26	0	0	0	0	0	0
11/20/2024 11:01	64904	MILL_T1	1	1	0	0.1	0.1	0	0.37	0.34	0	0	0	0	0	0
11/20/2024 11:01	64101	REFR_T1	1	2	1	0.2	0.2	0	-0.4	-0.4	0	0	0	0	0	0
11/20/2024 11:01	53502	EVIL_T2	0	0	0	0	0	0	0.57	0.4	4	4	0	2400	2400	0
11/20/2024 11:01	54603	SUMM_T2	0	0	0	0	0	0	-0.79	-0.76	2	2	0	1800	1800	0
11/20/2024 11:01	58401	MORO_T1	0	1	1	0	0.1	0.1	-2.37	-2.36	2	2	0	1200	1200	0
11/20/2024 11:01	66502	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/20/2024 11:01	66505	SMAN_T2	0	0	0	0	0	0	0.3	0.44	1	1	0	900	900	0
11/20/2024 11:01	59101	WALK_T2	0	1	1	0	0	0	6.15	6.55	0	0	0	0	0	0
11/20/2024 11:01	14201	EALL_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
11/20/2024 11:01	57203	ROSS_T1	0	0	0	0	0	0	0.54	0.6	0	0	0	0	0	0
11/20/2024 11:01	59102	WALK_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/20/2024 11:01	66501	SMAN_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/20/2024 11:02	54502	ENOL_T2	1	1	0	0.8	0.6	-0.2	-1.48	-1.48	0	0	0	0	0	0
11/20/2024 11:02	50501	MECH_T1	4	4	0	1.25	1.28	0.03	0	0	0	0	0	0	0	0
11/20/2024 11:02	50506	MECH_T1	0	1	1	0	0.2	0.2	-0.16	-0.23	2	2	0	1800	1800	0
11/20/2024 11:02	50504	MECH_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/20/2024 11:02	50505	MECH_T1	1	1	0	0.1	0.2	0.1	-0.95	-0.95	0	0	0	0	0	0
11/20/2024 11:02	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/20/2024 11:02	50502	MECH_T1	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
11/20/2024 11:03	43302	WATS_T2	0	0	0	0	0	0	0	0	3	3	0	2400	2400	0
11/20/2024 11:03	47502	NECO_T1	0	0	0	0	0	0	1.94	1.73	0	0	0	0	0	0
11/20/2024 11:04	50505	MECH_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/20/2024 11:04	50504	MECH_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/20/2024 11:04	50506	MECH_T1	0	1	1	0	0.2	0.2	-0.16	-0.23	2	2	0	1800	1800	0
11/20/2024 11:04	50502	MECH_T1	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
11/20/2024 11:04	56501	ROCK_T2	2	2	0	0.7	0.8	0.1	-2.78	-2.76	0	0	0	0	0	0
11/20/2024 11:04	50501	MECH_T1	4	4	0	1.25	1.28	0.03	0	0	0	0	0	0	0	0
11/20/2024 11:06	56501	ROCK_T2	2	2	0	0.7	0.8	0.1	-4.17	-4.14	0	0	0	0	0	0
11/20/2024 11:06	17001	RIRO_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
11/20/2024 11:07	56501	ROCK_T2	2	2	0	0.7	0.8	0.1	-1.38	-1.36	0	0	0	0	0	0
11/20/2024 11:09	56501	ROCK_T2	2	2	0	0.7	0.8	0.1	-1.38	-1.36	0	0	0	0	0	0
11/20/2024 11:10	17001	RIRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 11:12	60902	DONG_T2	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
11/20/2024 11:16	17804	GILB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 11:16	40902	JESH_T1	0	0	0	0	0	0	-0.7	-0.63	0	0	0	0	0	0
11/20/2024 11:16	40901	JESH_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/20/2024 11:17	46506	LOHA_T1	3	4	1	5.6	4.1	-1.5	0	0	0	0	0	0	0	0
11/20/2024 11:17	46504	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/20/2024 11:17	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
11/20/2024 11:18	64201	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/20/2024 11:18	64204	KINZ_T1	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
11/20/2024 11:18	64202	KINZ_T1	2	2	0	0.15	0.55	0.4	0.7	0.73	0	0	0	0	0	0
11/20/2024 11:21	67401	WAKE_T2	4	1	-3	0.15	1.3	1.15	-1.1	-1.14	0	0	0	0	0	0
11/20/2024 11:23	67402	WAKE_T2	0	0	0	0	0	0	0.94	0.92	0	0	0	0	0	0
11/20/2024 11:23	67401	WAKE_T2	4	1	-3	0.15	1.3	1.15	0	0	0	0	0	0	0	0
11/20/2024 11:30	54505	ENOL_T2	1	1	0	0.8	1	0.2	-4.31	-4.32	3	3	0	1800	1800	0
11/20/2024 11:30	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/20/2024 11:31	44801	EDAN_T2	0	0	0	0	0	0	-2.63	-2.65	0	0	0	0	0	0
11/20/2024 11:32	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/20/2024 11:32	54505	ENOL_T2	1	1	0	0.8	1	0.2	-1.44	-1.44	1	1	0	600	600	0
11/20/2024 11:33	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	-1.45	-1.52	0	0	0	0	0	0
11/20/2024 11:33	44802	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 11:33	54505	ENOL_T2	1	1	0	0.8	1	0.2	-1.44	-1.44	1	1	0	600	600	0
11/20/2024 11:34	58201	NEWV_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/20/2024 11:34	58202	NEWV_T1	8	10	2	0.18	0.55	0.37	0.25	0.16	0	0	0	0	0	0
11/20/2024 11:35	58302	NOTT_T1	0	0	0	0	0	0	-0.25	-0.18	1	1	0	1200	1200	0
11/20/2024 11:35	57203	ROSS_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
11/20/2024 11:35	57205	ROSS_T1	2	2	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
11/20/2024 11:36	14603	SWHI_T1	0	0	0	0	0	0	-2.16	-2.13	2	2	0	1200	1200	0
11/20/2024 11:36	14601	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 11:36	44802	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 11:37	58202	NEWV_T1	8	10	2	0.18	0.55	0.37	0.16	0.14	0	0	0	0	0	0
11/20/2024 11:37	58201	NEWV_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/20/2024 11:38	14604	SWHI_T1	0	0	0	0	0	0	0.18	0.38	1	1	0	900	900	0
11/20/2024 11:38	14601	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 11:40	14601	SWHI_T1	0	1	1	0	0	0	-0.26	-0.29	0	0	0	0	0	0
11/20/2024 11:41	46004	BERW_T2	0	0	0	0	0	0	-0.3	-0.27	0	0	0	0	0	0
11/20/2024 11:42	14303	SUMN_T1	3	3	0	6.6	6.6	0	0	0	0	0	0	0	0	0
11/20/2024 11:42	14306	SUMN_T1	0	0	0	0	0	0	-0.53	-0.51	1	1	0	1200	1200	0
11/20/2024 11:42	14308	SUMN_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 11:44	17802	GILB_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
11/20/2024 11:45	66303	MCGO_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
11/20/2024 11:45	50506	MECH_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/20/2024 11:45	17802	GILB_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
11/20/2024 11:45	50501	MECH_T1	4	4	0	1.28	1.18	-0.1	0	0	0	0	0	0	0	0
11/20/2024 11:45	50505	MECH_T1	0	0	0	0	0	0	-0.92	-0.94	0	0	0	0	0	0
11/20/2024 11:45	50502	MECH_T1	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
11/20/2024 11:45	66302	MCGO_T2	463	408	-55	0.64	0.33	-0.31	-1.06	-0.94	1	1	0	600	600	0
11/20/2024 11:45	48902	FOSP_T2	0	0	0	0	0	0	0.51	0.39	0	0	0	0	0	0
11/20/2024 11:45	50504	MECH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/20/2024 11:46	66302	MCGO_T2	463	408	-55	0.64	0.33	-0.31	-1.06	-0.94	1	1	0	600	600	0
11/20/2024 11:46	66303	MCGO_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
11/20/2024 11:47	66301	MCGO_T2	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
11/20/2024 11:47	66302	MCGO_T2	463	408	-55	0.64	0.33	-0.31	0	0	0	0	0	0	0	0
11/20/2024 11:47	66303	MCGO_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
11/20/2024 11:48	13302	ORVI_T2	0	1	1	0	0.5	0.5	1.4	1.49	0	0	0	0	0	0
11/20/2024 11:48	44802	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 11:49	64101	REFR_T1	4	7	3	0.33	0.32	-0.01	-0.2	-0.15	0	0	0	0	0	0
11/20/2024 11:49	56501	ROCK_T2	5	7	2	0.48	0.4	-0.08	-2.68	-2.79	0	0	0	0	0	0
11/20/2024 11:49	56504	ROCK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/20/2024 11:50	64101	REFR_T1	4	7	3	0.33	0.32	-0.01	-0.2	-0.15	0	0	0	0	0	0
11/20/2024 11:50	57205	ROSS_T1	1	2	1	0.6	0.6	0	0	0	0	0	0	0	0	0
11/20/2024 11:50	57201	ROSS_T1	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
11/20/2024 11:52	64101	REFR_T1	4	7	3	0.33	0.32	-0.01	-0.58	-0.76	0	0	0	0	0	0
11/20/2024 11:53	64101	REFR_T1	4	7	3	0.33	0.32	-0.01	-0.15	-0.19	0	0	0	0	0	0
11/20/2024 11:54	14801	TREI_T2	2	49	47	0.25	0.15	-0.1	0.29	0.32	0	0	0	0	0	0
11/20/2024 11:54	14802	TREI_T2	2	10	8	0.1	0.16	0.06	0	0	0	0	0	0	0	0
11/20/2024 11:55	59101	WALK_T2	0	1	1	0	0.1	0.1	4.36	4.38	0	0	0	0	0	0
11/20/2024 11:55	59102	WALK_T2	3	4	1	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
11/20/2024 11:56	14802	TREI_T2	2	10	8	0.1	0.16	0.06	0	0	0	0	0	0	0	0
11/20/2024 11:56	14801	TREI_T2	2	49	47	0.25	0.15	-0.1	0.29	0.32	0	0	0	0	0	0
11/20/2024 11:58	59101	WALK_T2	0	1	1	0	0.1	0.1	2.18	2.19	0	0	0	0	0	0
11/20/2024 11:58	59102	WALK_T2	3	4	1	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
11/20/2024 12:00	54501	ENOL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
11/20/2024 12:00	67501	WEWI_T1	11	3	-8	0.25	0.33	0.08	-1.13	-1.05	0	0	0	0	0	0
11/20/2024 12:00	67505	WEWI_T1	2	1	-1	0.3	0.3	0	-0.05	-0.02	1	1	0	900	900	0
11/20/2024 12:00	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/20/2024 12:00	54505	ENOL_T2	1	2	1	1	0.75	-0.25	-4.27	-4.2	3	3	0	1800	1800	0
11/20/2024 12:01	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/20/2024 12:01	54505	ENOL_T2	1	2	1	1	0.75	-0.25	-1.42	-1.4	1	1	0	600	600	0
11/20/2024 12:01	54501	ENOL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
11/20/2024 12:02	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/20/2024 12:02	23203	HIRU_T2	0	0	0	0	0	0	-0.04	0.07	0	0	0	0	0	0
11/20/2024 12:02	67505	WEWI_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
11/20/2024 12:02	54501	ENOL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
11/20/2024 12:02	54504	ENOL_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
11/20/2024 12:02	54505	ENOL_T2	1	2	1	1	0.75	-0.25	-2.85	-2.8	2	2	0	1200	1200	0
11/20/2024 12:02	67501	WEWI_T1	11	3	-8	0.25	0.33	0.08	-0.57	-0.52	0	0	0	0	0	0
11/20/2024 12:03	54505	ENOL_T2	1	2	1	1	0.75	-0.25	-1.42	-1.4	1	1	0	600	600	0
11/20/2024 12:03	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/20/2024 12:03	54501	ENOL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
11/20/2024 12:09	67401	WAKE_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
11/20/2024 12:09	67402	WAKE_T2	0	0	0	0	0	0	0.95	0.93	0	0	0	0	0	0
11/20/2024 12:10	59102	WALK_T2	3	4	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
11/20/2024 12:10	51604	DUKE_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/20/2024 12:10	59101	WALK_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/20/2024 12:10	51602	DUKE_T2	0	0	0	0	0	0	-0.11	-0.21	0	0	0	0	0	0
11/20/2024 12:11	59102	WALK_T2	3	4	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
11/20/2024 12:11	59101	WALK_T2	0	2	2	0	0.15	0.15	4.38	3.99	0	0	0	0	0	0
11/20/2024 12:12	10801	CHHI_T1	0	0	0	0	0	0	-0.81	-0.84	1	1	0	900	900	0
11/20/2024 12:12	51604	DUKE_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/20/2024 12:12	51602	DUKE_T2	0	0	0	0	0	0	-0.11	-0.21	0	0	0	0	0	0
11/20/2024 12:14	51602	DUKE_T2	0	0	0	0	0	0	-0.23	-0.42	0	0	0	0	0	0
11/20/2024 12:14	51604	DUKE_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/20/2024 12:14	64302	LINC_T2	0	0	0	0	0	0	0.96	0.99	0	0	0	0	0	0
11/20/2024 12:16	14201	EALL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 12:16	23201	HIRU_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
11/20/2024 12:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 12:18	64202	KINZ_T1	4	4	0	0.6	0.63	0.03	0	0	0	0	0	0	0	0
11/20/2024 12:18	64201	KINZ_T1	1	1	0	0.1	0.2	0.1	-0.27	-0.18	6	6	0	3000	3000	0
11/20/2024 12:18	64204	KINZ_T1	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0	0
11/20/2024 12:19	58402	MORO_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/20/2024 12:19	58401	MORO_T1	0	0	0	0	0	0	-2.36	-2.36	2	2	0	1200	1200	0
11/20/2024 12:21	59202	THOM_T1	25	12	-13	0.39	0.41	0.02	0	0	0	0	0	0	0	0
11/20/2024 12:21	59201	THOM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/20/2024 12:22	14102	TRUM_T2	0	0	0	0	0	0	0	0	2	2	0	1500	1500	0
11/20/2024 12:23	59202	THOM_T1	25	12	-13	0.39	0.41	0.02	0	0	0	0	0	0	0	0
11/20/2024 12:23	59201	THOM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/20/2024 12:23	67402	WAKE_T2	0	0	0	0	0	0	0.93	0.93	0	0	0	0	0	0
11/20/2024 12:23	67401	WAKE_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
11/20/2024 12:24	44301	BEAV_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/20/2024 12:24	10101	ALLE_T3	2	2	0	4.65	3.2	-1.45	0	0	0	0	0	0	0	0
11/20/2024 12:24	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/20/2024 12:24	44302	BEAV_T2	0	4	4	0	0.35	0.35	0.21	0.18	0	0	0	0	0	0
11/20/2024 12:25	60801	BUCK_T1	42	50	8	0.24	0.26	0.02	-0.17	-0.16	0	0	0	0	0	0
11/20/2024 12:25	60803	BUCK_T1	16	17	1	0.5	0.52	0.02	0	0	0	0	0	0	0	0
11/20/2024 12:26	44302	BEAV_T2	0	4	4	0	0.35	0.35	0.21	0.18	0	0	0	0	0	0
11/20/2024 12:26	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 12:26	60803	BUCK_T1	16	17	1	0.5	0.52	0.02	-1.08	-1.09	2	2	0	1200	1200	0
11/20/2024 12:26	44301	BEAV_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/20/2024 12:26	60801	BUCK_T1	42	50	8	0.24	0.26	0.02	0	0	0	0	0	0	0	0
11/20/2024 12:26	10101	ALLE_T3	2	2	0	4.65	3.2	-1.45	0	0	0	0	0	0	0	0
11/20/2024 12:27	60801	BUCK_T1	42	50	8	0.24	0.26	0.02	0	0	0	0	0	0	0	0
11/20/2024 12:27	60803	BUCK_T1	16	17	1	0.5	0.52	0.02	-0.54	-0.55	1	1	0	600	600	0
11/20/2024 12:28	13701	SCHN_T2	0	0	0	0	0	0	-0.15	-0.16	1	1	0	600	600	0
11/20/2024 12:28	60801	BUCK_T1	42	50	8	0.24	0.26	0.02	0	0	0	0	0	0	0	0
11/20/2024 12:28	60803	BUCK_T1	16	17	1	0.5	0.52	0.02	-0.54	-0.55	1	1	0	600	600	0
11/20/2024 12:29	60801	BUCK_T1	42	50	8	0.24	0.26	0.02	-0.17	-0.16	0	0	0	0	0	0
11/20/2024 12:29	67501	WEWI_T1	2	3	1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
11/20/2024 12:29	67505	WEWI_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
11/20/2024 12:29	60803	BUCK_T1	16	17	1	0.5	0.52	0.02	-0.54	-0.55	1	1	0	600	600	0
11/20/2024 12:31	48901	FOSP_T2	0	0	0	0	0	0	-0.15	-0.2	1	1	0	600	600	0
11/20/2024 12:35	63601	LETO_T1	0	0	0	0	0	0	1.82	1.86	1	1	0	900	900	0
11/20/2024 12:35	42903	MIDD_T2	2	2	0	1.8	1.2	-0.6	0	0	0	0	0	0	0	0
11/20/2024 12:35	63602	LETO_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
11/20/2024 12:35	42902	MIDD_T2	11	1	-10	0.16	0.3	0.14	-0.15	-0.24	0	0	0	0	0	0
11/20/2024 12:36	14502	SCHO_T1	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
11/20/2024 12:36	57401	SPAN_T1	3	2	-1	1.17	1.5	0.33	0	0	0	0	0	0	0	0
11/20/2024 12:36	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 12:36	57403	SPAN_T1	10	9	-1	0.32	0.44	0.12	0	0	0	0	0	0	0	0
11/20/2024 12:37	57403	SPAN_T1	10	9	-1	0.32	0.44	0.12	-0.05	-0.06	0	0	0	0	0	0
11/20/2024 12:37	57401	SPAN_T1	3	2	-1	1.17	1.5	0.33	0	0	0	0	0	0	0	0
11/20/2024 12:38	57403	SPAN_T1	10	9	-1	0.32	0.44	0.12	-0.05	-0.06	0	0	0	0	0	0
11/20/2024 12:38	67402	WAKE_T2	0	0	0	0	0	0	0.93	0.95	0	0	0	0	0	0
11/20/2024 12:38	67401	WAKE_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
11/20/2024 12:38	10504	CRAC_T1	0	0	0	0	0	0	0.33	0.38	0	0	0	0	0	0
11/20/2024 12:38	57401	SPAN_T1	3	2	-1	1.17	1.5	0.33	0	0	0	0	0	0	0	0
11/20/2024 12:40	10502	CRAC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 12:40	10504	CRAC_T1	0	0	0	0	0	0	0.33	0.38	0	0	0	0	0	0
11/20/2024 12:40	14502	SCHO_T1	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
11/20/2024 12:41	67203	TEHI_T1	0	0	0	0	0	0	2.58	2.55	3	3	0	2100	2100	0
11/20/2024 12:41	28102	TWLA_T2	14	13	-1	0.41	0.42	0.01	0.18	0.17	0	0	0	0	0	0
11/20/2024 12:42	10505	CRAC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 12:42	10503	CRAC_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
11/20/2024 12:44	10503	CRAC_T1	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
11/20/2024 12:44	10502	CRAC_T1	0	0	0	0	0	0	1.19	1.33	0	0	0	0	0	0
11/20/2024 12:44	10504	CRAC_T1	0	0	0	0	0	0	0.65	0.76	0	0	0	0	0	0
11/20/2024 12:46	10505	CRAC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 12:46	10504	CRAC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 12:47	64904	MILL_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
11/20/2024 12:48	64801	MONE_T2	11	6	-5	0.16	0.2	0.04	0	0	0	0	0	0	0	0
11/20/2024 12:48	64802	MONE_T2	61	30	-31	0.19	0.27	0.08	0.23	0.23	0	0	0	0	0	0
11/20/2024 12:49	40701	FFLD_T1	31	29	-2	0.48	0.5	0.02	0	0	0	0	0	0	0	0
11/20/2024 12:49	40703	FFLD_T1	4	3	-1	0.28	0.33	0.05	0	0	0	0	0	0	0	0
11/20/2024 12:49	40702	FFLD_T1	8	7	-1	0.21	0.21	0	-0.38	-0.41	1	1	0	1200	1200	0
11/20/2024 12:50	22903	HARW_T1	22	22	0	0.93	0	-0.93	0	0	0	0	0	0	0	0
11/20/2024 12:50	14502	SCHO_T1	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
11/20/2024 12:50	64802	MONE_T2	61	30	-31	0.19	0.27	0.08	0.23	0.23	0	0	0	0	0	0
11/20/2024 12:50	22901	HARW_T1	0	0	0	0	0	0	-0.23	-0.24	1	1	0	1200	1200	0
11/20/2024 12:50	64801	MONE_T2	11	6	-5	0.16	0.2	0.04	0	0	0	0	0	0	0	0
11/20/2024 12:51	28102	TWLA_T2	13	13	0	0.38	0.38	0	0.18	0.17	0	0	0	0	0	0
11/20/2024 12:52	64101	REFR_T1	3	2	-1	0.33	0.5	0.17	-0.6	-0.45	0	0	0	0	0	0
11/20/2024 12:53	64101	REFR_T1	3	2	-1	0.33	0.5	0.17	-0.2	-0.15	0	0	0	0	0	0
11/20/2024 12:54	14502	SCHO_T1	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
11/20/2024 12:56	24901	WHHA_T1	0	1	1	0	0	0	0.42	0.4	0	0	0	0	0	0
11/20/2024 12:56	24902	WHHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/20/2024 13:11	66902	SHIL_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/20/2024 13:11	66903	SHIL_T2	0	1	1	0	0.4	0.4	-0.99	-0.97	0	0	0	0	0	0
11/20/2024 13:13	66903	SHIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/20/2024 13:13	66902	SHIL_T2	2	1	-1	0.3	0.4	0.1	-1.96	-2.05	0	0	0	0	0	0
11/20/2024 13:14	66902	SHIL_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/20/2024 13:14	66901	SHIL_T2	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
11/20/2024 13:14	66903	SHIL_T2	0	1	1	0	0.4	0.4	-0.99	-0.97	0	0	0	0	0	0
11/20/2024 13:15	66903	SHIL_T2	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
11/20/2024 13:15	66901	SHIL_T2	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
11/20/2024 13:15	66902	SHIL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/20/2024 13:16	66902	SHIL_T2	1	1	0	0.4	0.4	0	-1.96	-2.05	0	0	0	0	0	0
11/20/2024 13:16	66903	SHIL_T2	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
11/20/2024 13:20	54502	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/20/2024 13:20	54505	ENOL_T2	2	1	-1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/20/2024 13:20	54503	ENOL_T2	0	0	0	0	0	0	-0.46	-0.46	1	1	0	600	600	0
11/20/2024 13:31	41801	GOCI_T2	0	69	69	0	0.23	0.23	0	0	0	0	0	0	0	0
11/20/2024 13:38	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 13:39	61001	DONV_T1	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
11/20/2024 13:40	16101	BING_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
11/20/2024 13:40	16103	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 13:42	16101	BING_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
11/20/2024 13:42	16103	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 13:44	48901	FOSP_T2	0	0	0	0	0	0	-0.19	-0.2	1	1	0	600	600	0
11/20/2024 13:44	48902	FOSP_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/20/2024 13:46	48902	FOSP_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/20/2024 13:46	45802	HEGI_T2	2	9	7	0.15	0.24	0.09	0	0	0	0	0	0	0	0
11/20/2024 13:46	48901	FOSP_T2	0	0	0	0	0	0	-0.19	-0.2	1	1	0	600	600	0
11/20/2024 13:49	64101	REFR_T1	2	3	1	0.35	0.23	-0.12	-0.2	-0.2	0	0	0	0	0	0
11/20/2024 13:52	64101	REFR_T1	2	3	1	0.35	0.23	-0.12	-0.2	-0.18	0	0	0	0	0	0
11/20/2024 13:56	11801	FRAN_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
11/20/2024 14:08	55002	NEWP_T1	8	9	1	0.96	0.99	0.03	-0.29	-0.3	0	0	0	0	0	0
11/20/2024 14:12	10903	COOP_T2	2	13	11	0.2	0.21	0.01	0	-0.04	1	1	0	600	600	0
11/20/2024 14:19	42802	SELI_T1	1	1	0	0.2	0.3	0.1	-1.15	-1.23	1	1	0	900	900	0
11/20/2024 14:19	42803	SELI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 14:23	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 14:24	52502	PROG_T2	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
11/20/2024 14:27	66901	SHIL_T2	0	0	0	0	0	0	-0.31	-0.39	0	0	0	0	0	0
11/20/2024 14:27	66903	SHIL_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
11/20/2024 14:27	66902	SHIL_T2	19	1	-18	0.11	0.2	0.09	0	0	0	0	0	0	0	0
11/20/2024 14:28	46004	BERW_T2	0	0	0	0	0	0	-0.25	-0.21	0	0	0	0	0	0
11/20/2024 14:40	43402	BENT_T1	0	0	0	0	0	0	-1.36	-1.33	2	2	0	1500	1500	0
11/20/2024 14:41	43402	BENT_T1	0	0	0	0	0	0	-1.36	-1.33	2	2	0	1500	1500	0
11/20/2024 14:41	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 15:05	52502	PROG_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
11/20/2024 15:06	52502	PROG_T2	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
11/20/2024 15:07	52502	PROG_T2	0	0	0	0	0	0	0.44	0.48	0	0	0	0	0	0
11/20/2024 15:15	24105	EHAZ_T1	4	4	0	6.13	6.18	0.05	0	0	0	0	0	0	0	0
11/20/2024 15:15	24101	EHAZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/20/2024 15:15	24104	EHAZ_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	1200	1200	0
11/20/2024 15:18	64801	MONE_T2	57	57	0	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
11/20/2024 15:18	64802	MONE_T2	139	139	0	0.27	0.24	-0.03	0.24	0.23	0	0	0	0	0	0
11/20/2024 15:19	65604	QVIL_T2	3	3	0	0.2	0.1	-0.1	0.44	0.5	0	0	0	0	0	0
11/20/2024 15:19	65601	QVIL_T2	144	83	-61	0.17	0.17	0	0	0	0	0	0	0	0	0
11/20/2024 15:19	65602	QVIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/20/2024 15:20	42902	MIDD_T2	10	15	5	0.14	0.29	0.15	0	0	0	0	0	0	0	0
11/20/2024 15:20	42903	MIDD_T2	2	2	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
11/20/2024 15:21	64801	MONE_T2	57	57	0	0.26	0.24	-0.02	0.16	0.16	0	0	0	0	0	0
11/20/2024 15:21	64802	MONE_T2	139	139	0	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
11/20/2024 15:22	65604	QVIL_T2	3	3	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/20/2024 15:22	65602	QVIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/20/2024 15:22	65601	QVIL_T2	144	83	-61	0.17	0.17	0	-1.15	-1.26	1	1	0	900	900	0
11/20/2024 15:28	59301	MCAL_T1	2	2	0	0.85	0.9	0.05	-1.71	-1.69	1	1	0	600	600	0
11/20/2024 15:32	64202	KINZ_T1	3	3	0	0.2	0.27	0.07	0	0	0	0	0	0	0	0
11/20/2024 15:32	64201	KINZ_T1	1	1	0	0.3	1.5	1.2	0	0	0	0	0	0	0	0
11/20/2024 15:32	64204	KINZ_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
11/20/2024 15:43	59002	MIFF_T1	6	5	-1	0.75	0.8	0.05	0	0	0	0	0	0	0	0
11/20/2024 15:43	59003	MIFF_T1	1	1	0	0.6	0.5	-0.1	-0.03	-0.48	0	0	0	0	0	0
11/20/2024 15:45	40802	EXCH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 15:45	40801	EXCH_T2	1	3	2	0.2	0.23	0.03	-0.5	-0.54	1	1	0	1200	1200	0
11/20/2024 15:51	54204	PENN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/20/2024 15:51	54206	PENN_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
11/20/2024 15:53	67401	WAKE_T2	32	2	-30	0.14	0.3	0.16	0	0	0	0	0	0	0	0
11/20/2024 15:53	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
11/20/2024 16:01	63501	HEID_TBK1-2	33	38	5	0.24	0.47	0.23	-0.31	-0.44	1	1	0	900	900	0
11/20/2024 16:06	64802	MONE_T2	33	40	7	0.12	0.13	0.01	0.13	0.14	0	0	0	0	0	0
11/20/2024 16:06	64801	MONE_T2	3	4	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/20/2024 16:09	64801	MONE_T2	3	4	1	0.1	0.1	0	0.14	0.14	0	0	0	0	0	0
11/20/2024 16:09	64802	MONE_T2	33	40	7	0.12	0.13	0.01	0	0	0	0	0	0	0	0
11/20/2024 16:16	64305	LINC_T1	0	0	0	0	0	0	0.26	0.02	0	0	0	0	0	0
11/20/2024 16:18	54505	ENOL_T2	1	1	0	0.9	0.6	-0.3	-1.43	-1.43	1	1	0	600	600	0
11/20/2024 16:18	54502	ENOL_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
11/20/2024 16:18	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/20/2024 16:25	60102	COCA_T1	0	0	0	0	0	0	-0.34	-0.26	2	2	0	1200	1200	0
11/20/2024 16:27	60201	ATGL_T2	11	1	-10	0.13	0	-0.13	-0.2	-0.07	0	0	0	0	0	0
11/20/2024 16:46	52502	PROG_T2	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
11/20/2024 17:11	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	0	-1.4	1	1	0	600	600	0
11/20/2024 18:33	59101	WALK_T2	1	1	0	3.5	3.5	0	0	0	0	0	0	0	0	0
11/20/2024 18:33	43304	WATS_T2	0	1	1	0	0.1	0.1	0	0	1	1	0	600	600	0
11/20/2024 18:33	23201	HIRU_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
11/20/2024 18:34	45701	LIND_T2	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
11/20/2024 18:34	59202	THOM_T1	18	27	9	0.19	0.17	-0.02	0	0	0	0	0	0	0	0
11/20/2024 18:34	45501	DERR_T2	0	0	0	0	0	0	-0.18	-0.17	2	2	0	1800	1800	0
11/20/2024 18:34	45702	LIND_T2	1	1	0	1.3	1.9	0.6	0	0	0	0	0	0	0	0
11/20/2024 18:34	59201	THOM_T1	10	8	-2	0.15	0.15	0	0	0	0	0	0	0	0	0
11/20/2024 18:35	45702	LIND_T2	1	1	0	1.3	1.9	0.6	-1.91	-1.9	0	0	0	0	0	0
11/20/2024 18:36	40702	FFLD_T1	112	146	34	0.37	0.42	0.05	-0.64	-0.7	1	1	0	1200	1200	0
11/20/2024 18:36	40701	FFLD_T1	67	75	8	0.57	0.62	0.05	0	0	0	0	0	0	0	0
11/20/2024 18:36	59101	WALK_T2	1	1	0	3.5	3.5	0	1.17	1.56	0	0	0	0	0	0
11/20/2024 18:36	40703	FFLD_T1	4	4	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/20/2024 18:36	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/20/2024 18:36	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.2	1	1	0	600	600	0
11/20/2024 18:37	59202	THOM_T1	18	27	9	0.19	0.17	-0.02	0	0	0	0	0	0	0	0
11/20/2024 18:37	59302	MCAL_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
11/20/2024 18:37	59301	MCAL_T1	6	4	-2	0.55	0.43	-0.12	-1.96	-1.97	1	1	0	600	600	0
11/20/2024 18:37	59201	THOM_T1	10	8	-2	0.15	0.15	0	0	0	0	0	0	0	0	0
11/20/2024 18:37	45501	DERR_T2	0	0	0	0	0	0	-0.17	-0.27	2	2	0	1800	1800	0
11/20/2024 18:38	45501	DERR_T2	0	0	0	0	0	0	-0.17	-0.27	2	2	0	1800	1800	0
11/20/2024 18:38	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:38	58302	NOTT_T1	0	0	0	0	0	0	-0.41	-0.37	1	1	0	1200	1200	0
11/20/2024 18:38	64302	LINC_T2	0	0	0	0	0	0	1.03	1.05	0	0	0	0	0	0
11/20/2024 18:38	59101	WALK_T2	1	1	0	3.5	3.5	0	1.56	1.42	0	0	0	0	0	0
11/20/2024 18:38	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.94	1	1	0	900	900	0
11/20/2024 18:39	44802	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:39	58003	WCAR_T1	1	1	0	1.3	1.4	0.1	0.48	0.5	0	0	0	0	0	0
11/20/2024 18:39	44801	EDAN_T2	1	1	0	3.7	0	-3.7	0	0	0	0	0	0	0	0
11/20/2024 18:39	58001	WCAR_T1	4	4	0	0.85	1.18	0.33	0	0	0	0	0	0	0	0
11/20/2024 18:40	46002	BERW_T2	0	0	0	0	0	0	-1.1	-1.17	1	1	0	900	900	0
11/20/2024 18:40	44903	SCOT_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
11/20/2024 18:40	58401	MORO_T1	0	0	0	0	0	0	-2.4	-2.46	2	2	0	1200	1200	0
11/20/2024 18:40	46004	BERW_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
11/20/2024 18:40	13303	ORVI_T1	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
11/20/2024 18:40	16101	BING_T2	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
11/20/2024 18:41	54601	SUMM_T2	5	4	-1	0.22	0.2	-0.02	2.93	2.94	2	2	0	2100	2100	0
11/20/2024 18:41	59202	THOM_T1	18	27	9	0.19	0.17	-0.02	0	0	0	0	0	0	0	0
11/20/2024 18:41	50501	MECH_T1	4	4	0	0.88	1.23	0.35	0	0	0	0	0	0	0	0
11/20/2024 18:41	23203	HIRU_T2	0	0	0	0	0	0	0.05	0.2	0	0	0	0	0	0
11/20/2024 18:41	44802	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:41	59201	THOM_T1	10	8	-2	0.15	0.15	0	0	0	0	0	0	0	0	0
11/20/2024 18:41	50505	MECH_T1	0	0	0	0	0	0	-1	-0.99	0	0	0	0	0	0
11/20/2024 18:41	50502	MECH_T1	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
11/20/2024 18:41	55002	NEWP_T1	5	6	1	0.94	1.08	0.14	-0.54	-0.52	0	0	0	0	0	0
11/20/2024 18:41	44801	EDAN_T2	1	1	0	3.7	0	-3.7	0	0	0	0	0	0	0	0
11/20/2024 18:41	25402	LAHA_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
11/20/2024 18:41	60803	BUCK_T1	0	3	3	0	0.13	0.13	0.56	0.57	1	1	0	600	600	0
11/20/2024 18:42	42903	MIDD_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
11/20/2024 18:42	46506	LOHA_T1	3	3	0	4.13	4.17	0.04	0	0	0	0	0	0	0	0
11/20/2024 18:42	40902	JESH_T1	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
11/20/2024 18:42	66505	SMAN_T2	3	3	0	0.73	0.57	-0.16	0	0	0	0	0	0	0	0
11/20/2024 18:42	13302	ORVI_T2	0	0	0	0	0	0	1.36	1.48	0	0	0	0	0	0
11/20/2024 18:42	58202	NEWV_T1	0	0	0	0	0	0	0.12	0.2	0	0	0	0	0	0
11/20/2024 18:42	44302	BEAV_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
11/20/2024 18:42	42901	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/20/2024 18:42	59003	MIFF_T1	1	1	0	0.7	0.1	-0.6	0.24	0.21	0	0	0	0	0	0
11/20/2024 18:42	46501	LOHA_T1	0	0	0	0	0	0	-0.11	-0.09	1	1	0	1200	1200	0
11/20/2024 18:42	40901	JESH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/20/2024 18:42	66502	SMAN_T2	0	0	0	0	0	0	-0.06	-0.13	0	0	0	0	0	0
11/20/2024 18:42	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:42	65802	RTWN_T2	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
11/20/2024 18:42	42902	MIDD_T2	0	0	0	0	0	0	-1.18	-1.17	1	1	0	600	600	0
11/20/2024 18:42	10503	CRAC_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
11/20/2024 18:42	59002	MIFF_T1	5	5	0	0.52	0.2	-0.32	0	0	0	0	0	0	0	0
11/20/2024 18:42	44301	BEAV_T2	2	2	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
11/20/2024 18:42	10101	ALLE_T3	2	2	0	4.25	5.6	1.35	0	0	0	0	0	0	0	0
11/20/2024 18:42	59101	WALK_T2	1	1	0	3.5	3.5	0	1.56	1.42	0	0	0	0	0	0
11/20/2024 18:43	42901	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/20/2024 18:43	46001	BERW_T1	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
11/20/2024 18:43	42902	MIDD_T2	0	0	0	0	0	0	-1.18	-1.17	1	1	0	600	600	0
11/20/2024 18:43	58003	WCAR_T1	1	1	0	1.3	1.4	0.1	0.48	0.5	0	0	0	0	0	0
11/20/2024 18:43	42903	MIDD_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
11/20/2024 18:43	54601	SUMM_T2	5	4	-1	0.22	0.2	-0.02	-2.93	-2.94	2	2	0	2100	2100	0
11/20/2024 18:43	58001	WCAR_T1	4	4	0	0.85	1.18	0.33	0	0	0	0	0	0	0	0
11/20/2024 18:44	44505	HAMI_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
11/20/2024 18:44	42902	MIDD_T2	0	0	0	0	0	0	-1.18	-1.17	1	1	0	600	600	0
11/20/2024 18:44	58003	WCAR_T1	1	1	0	1.3	1.4	0.1	1.45	1.5	0	0	0	0	0	0
11/20/2024 18:44	56501	ROCK_T2	3	2	-1	0.37	0.7	0.33	-1.34	-1.33	0	0	0	0	0	0
11/20/2024 18:44	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:44	66903	SHIL_T2	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
11/20/2024 18:44	16101	BING_T2	0	0	0	0	0	0	0.38	0.35	0	0	0	0	0	0
11/20/2024 18:44	63501	HEID_TBK1-2	1	1	0	0.7	0.7	0	0.8	0.74	0	0	0	0	0	0
11/20/2024 18:44	17802	GILB_T1	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
11/20/2024 18:44	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:44	44302	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:44	42901	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/20/2024 18:44	10101	ALLE_T3	2	2	0	4.25	5.6	1.35	0	0	0	0	0	0	0	0
11/20/2024 18:44	58001	WCAR_T1	4	4	0	0.85	1.18	0.33	0	0	0	0	0	0	0	0
11/20/2024 18:44	42903	MIDD_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
11/20/2024 18:44	44301	BEAV_T2	2	2	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
11/20/2024 18:44	44502	HAMI_T2	1	1	0	3.7	3.7	0	0	0	0	0	0	0	0	0
11/20/2024 18:44	13701	SCHN_T2	0	0	0	0	0	0	-0.16	-0.15	1	1	0	600	600	0
11/20/2024 18:44	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:44	10503	CRAC_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
11/20/2024 18:44	59101	WALK_T2	1	1	0	3.5	3.5	0	1.56	1.42	0	0	0	0	0	0
11/20/2024 18:45	55002	NEWP_T1	5	6	1	0.84	1.12	0.28	-0.27	-0.26	0	0	0	0	0	0
11/20/2024 18:45	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	-1.4	-1.41	1	1	0	600	600	0
11/20/2024 18:45	24102	EHAZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:45	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
11/20/2024 18:45	46004	BERW_T2	0	1	1	0	0.8	0.8	-0.37	-0.34	0	0	0	0	0	0
11/20/2024 18:45	24105	EHAZ_T1	4	4	0	6.48	6.28	-0.2	0	0	0	0	0	0	0	0
11/20/2024 18:45	54601	SUMM_T2	2	7	5	0.25	0.23	-0.02	-2.93	-2.94	2	2	0	2100	2100	0
11/20/2024 18:45	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:45	24104	EHAZ_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	1200	1200	0
11/20/2024 18:45	57401	SPAN_T1	1	2	1	0.2	0.75	0.55	0.36	0.35	0	0	0	0	0	0
11/20/2024 18:45	42903	MIDD_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
11/20/2024 18:45	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:45	24101	EHAZ_T1	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
11/20/2024 18:45	17802	GILB_T1	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
11/20/2024 18:45	58202	NEWV_T1	0	0	0	0	0	0	0.12	0.2	0	0	0	0	0	0
11/20/2024 18:46	43201	MVIL_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
11/20/2024 18:46	54506	ENOL_T2	0	0	0	0	0	0	0.78	0.66	1	1	0	600	600	0
11/20/2024 18:46	50506	MECH_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
11/20/2024 18:46	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	-2.8	-2.82	2	2	0	1200	1200	0
11/20/2024 18:46	14201	EALL_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
11/20/2024 18:46	66901	SHIL_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
11/20/2024 18:46	41801	GOCI_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
11/20/2024 18:46	10903	COOP_T2	0	0	0	0	0	0	-0.45	-0.44	1	1	0	600	600	0
11/20/2024 18:46	46504	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/20/2024 18:46	41802	GOCI_T2	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
11/20/2024 18:46	46503	LOHA_T1	0	0	0	0	0	0	-1.28	-1.3	0	0	0	0	0	0
11/20/2024 18:46	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
11/20/2024 18:46	50501	MECH_T1	4	4	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
11/20/2024 18:46	65601	QVIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/20/2024 18:46	50502	MECH_T1	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
11/20/2024 18:46	46506	LOHA_T1	3	3	0	4.1	4.47	0.37	0	0	0	0	0	0	0	0
11/20/2024 18:46	65603	QVIL_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
11/20/2024 18:46	14502	SCHO_T1	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
11/20/2024 18:46	14603	SWHI_T1	0	0	0	0	0	0	-1.05	-1.05	1	1	0	600	600	0
11/20/2024 18:47	24902	WHHA_T1	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/20/2024 18:47	65207	PRIN_T4	4	23	19	0.83	0.34	-0.49	0	0	1	1	0	1200	1200	0
11/20/2024 18:47	57205	ROSS_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
11/20/2024 18:47	65401	MARI_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
11/20/2024 18:47	65206	PRIN_T4	2	2	0	1.85	3.95	2.1	0	0	0	0	0	0	0	0
11/20/2024 18:47	24901	WHHA_T1	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
11/20/2024 18:47	40101	HUNT_T2	1	5	4	0.6	0.5	-0.1	-0.72	-0.73	0	0	0	0	0	0
11/20/2024 18:47	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	-1.4	-1.41	1	1	0	600	600	0
11/20/2024 18:47	66504	SMAN_T2	0	0	0	0	0	0	0	-0.98	-1.01	0	0	0	0	0
11/20/2024 18:47	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:47	42802	SELI_T1	0	0	0	0	0	0	-1.32	-1.22	1	1	0	900	900	0
11/20/2024 18:47	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.94	1	1	0	900	900	0
11/20/2024 18:47	66505	SMAN_T2	3	3	0	0.43	0.6	0.17	0	0	0	0	0	0	0	0
11/20/2024 18:47	66902	SHIL_T2	0	0	0	0	0	0	-2.01	-2.02	0	0	0	0	0	0
11/20/2024 18:47	53501	EVIL_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
11/20/2024 18:47	53502	EVIL_T2	0	0	0	0	0	0	0.07	0.09	1	1	0	600	600	0
11/20/2024 18:48	42903	MIDD_T2	0	2	2	0	1	1	0	0	0	0	0	0	0	0
11/20/2024 18:48	55002	NEWP_T1	5	6	1	0.84	1.12	0.28	-0.27	-0.26	0	0	0	0	0	0
11/20/2024 18:48	42902	MIDD_T2	0	0	0	0	0	0	-1.18	-1.17	1	1	0	600	600	0
11/20/2024 18:48	56502	ROCK_T2	2	4	2	0.6	0.57	-0.03	-1.34	-1.33	0	0	0	0	0	0
11/20/2024 18:48	55001	NEWP_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
11/20/2024 18:48	14801	TREI_T2	1	2	1	0.3	0.25	-0.05	0.86	0.9	0	0	0	0	0	0
11/20/2024 18:48	10504	CRAC_T1	0	0	0	0	0	0	-0.04	-0.01	0	0	0	0	0	0
11/20/2024 18:48	64802	MONE_T2	2	27	25	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/20/2024 18:48	67502	WEWI_T2	0	0	0	0	0	0	-1.72	-1.62	1	1	0	900	900	0
11/20/2024 18:48	54501	ENOL_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
11/20/2024 18:48	40801	EXCH_T2	2	3	1	0.25	0.17	-0.08	-0.48	-0.53	1	1	0	1200	1200	0
11/20/2024 18:48	60801	BUCK_T1	0	0	0	0	0	0	-0.48	-0.53	0	0	0	0	0	0
11/20/2024 18:48	51602	DUKE_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
11/20/2024 18:48	40802	EXCH_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/20/2024 18:48	14802	TREI_T2	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
11/20/2024 18:48	64801	MONE_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
11/20/2024 18:48	44505	HAMI_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
11/20/2024 18:48	60803	BUCK_T1	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/20/2024 18:48	13303	ORVI_T1	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
11/20/2024 18:48	52502	PROG_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
11/20/2024 18:48	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/20/2024 18:48	44502	HAMI_T2	1	1	0	3.6	3.7	0.1	0	0	0	0	0	0	0	0
11/20/2024 18:48	14604	SWHI_T1	0	0	0	0	0	0	0.14	0.15	1	1	0	900	900	0
11/20/2024 18:48	67503	WEWI_T2	1	1	0	7.6	7.9	0.3	0	0	0	0	0	0	0	0
11/20/2024 18:49	20603	GRWO_T2	99	110	11	0.38	0.38	0	0.34	0.32	0	0	0	0	0	0
11/20/2024 18:49	51603	DUKE_T1	0	2	2	0	0.1	0.1	-0.4	-0.39	0	0	0	0	0	0
11/20/2024 18:49	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	-1.4	-1.41	1	1	0	600	600	0
11/20/2024 18:49	63801	HEMP_T1	4	0	-4	1.58	0	-1.58	0	0	0	0	0	0	0	0
11/20/2024 18:49	66505	SMAN_T2	3	3	0	0.43	0.6	0.17	0	0	0	0	0	0	0	0
11/20/2024 18:49	20601	GRWO_T2	59	13	-46	0.22	0.13	-0.09	0	0	0	0	0	0	0	0
11/20/2024 18:49	54601	SUMM_T2	2	7	5	0.25	0.23	-0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/20/2024 18:49	23901	EFMO_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
11/20/2024 18:49	44801	EDAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/20/2024 18:49	54603	SUMM_T2	0	0	0	0	0	0	-0.44	-0.4	1	1	0	900	900	0
11/20/2024 18:49	20602	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:49	63804	HEMP_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
11/20/2024 18:49	56501	ROCK_T2	2	4	2	0.6	0.57	-0.03	-1.34	-1.33	0	0	0	0	0	0
11/20/2024 18:49	65601	QVIL_T2	0	3	3	0	0.1	0.1	-1.27	-1.3	1	1	0	900	900	0
11/20/2024 18:49	51602	DUKE_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
11/20/2024 18:49	63501	HEID_TBK1-2	1	6	5	0.7	0.27	-0.43	0.4	0.37	0	0	0	0	0	0
11/20/2024 18:49	63803	HEMP_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
11/20/2024 18:49	66502	SMAN_T2	0	0	0	0	0	0	-0.06	-0.13	0	0	0	0	0	0
11/20/2024 18:49	44802	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:49	66902	SHIL_T2	0	0	0	0	0	0	-2.01	-2.02	0	0	0	0	0	0
11/20/2024 18:50	10505	CRAC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:50	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/20/2024 18:50	67502	WEWI_T2	0	0	0	0	0	0	-1.72	-1.62	1	1	0	900	900	0
11/20/2024 18:50	56501	ROCK_T2	2	4	2	0.6	0.57	-0.03	-2.68	-2.66	0	0	0	0	0	0
11/20/2024 18:50	67503	WEWI_T2	1	1	0	7.6	7.9	0.3	0	0	0	0	0	0	0	0
11/20/2024 18:50	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/20/2024 18:50	46001	BERW_T1	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
11/20/2024 18:50	52402	GRPA_T2	3	4	1	0.7	0.88	0.18	0	0	0	0	0	0	0	0
11/20/2024 18:50	50501	MECH_T1	4	4	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
11/20/2024 18:50	45802	HEGI_T2	3	23	20	0.23	0.57	0.34	0.67	0.62	0	0	0	0	0	0
11/20/2024 18:50	52404	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/20/2024 18:50	10504	CRAC_T1	0	0	0	0	0	0	-0.04	-0.01	0	0	0	0	0	0
11/20/2024 18:50	43302	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/20/2024 18:50	50505	MECH_T1	0	0	0	0	0	0	-1	-0.99	0	0	0	0	0	0
11/20/2024 18:50	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:50	52403	GRPA_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
11/20/2024 18:50	67501	WEWI_T1	0	0	0	0	0	0	-1.14	-1.17	0	0	0	0	0	0
11/20/2024 18:50	65202	PRIN_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/20/2024 18:50	65401	MARI_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
11/20/2024 18:50	14205	EALL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:50	14601	SWHI_T1	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
11/20/2024 18:50	57401	SPAN_T1	1	2	1	0.2	0.75	0.55	0	0	0	0	0	0	0	0
11/20/2024 18:50	43304	WATS_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/20/2024 18:50	67505	WEWI_T1	0	0	0	0	0	0	-0.02	-0.03	2	2	0	1800	1800	0
11/20/2024 18:50	54501	ENOL_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
11/20/2024 18:50	65205	PRIN_T1	1	2	1	2.1	1.15	-0.95	0	0	0	0	0	0	0	0
11/20/2024 18:50	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:50	58402	MORO_T1	0	1	1	0	0	0	0	-0.01	2	2	0	1500	1500	0
11/20/2024 18:50	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:50	63501	HEID_TBK1-2	1	6	5	0.7	0.27	-0.43	0.4	0.37	0	0	0	0	0	0
11/20/2024 18:50	50502	MECH_T1	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
11/20/2024 18:50	57403	SPAN_T1	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
11/20/2024 18:50	51603	DUKE_T1	0	2	2	0	0.1	0.1	-0.4	-0.39	0	0	0	0	0	0
11/20/2024 18:51	67604	WARW_T1	0	0	0	0	0	0	0.48	0.62	0	0	0	0	0	0
11/20/2024 18:51	42903	MIDD_T2	0	2	2	0	1	1	0	0	0	0	0	0	0	0
11/20/2024 18:51	47401	PENS_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
11/20/2024 18:51	63804	HEMP_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
11/20/2024 18:51	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:51	63801	HEMP_T1	4	0	-4	1.58	0	-1.58	0	0	0	0	0	0	0	0
11/20/2024 18:51	63803	HEMP_T1	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
11/20/2024 18:51	66504	SMAN_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
11/20/2024 18:51	66303	MCGO_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/20/2024 18:51	50502	MECH_T1	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
11/20/2024 18:51	67605	WARW_T1	9	10	1	0.28	0.22	-0.06	0	0	0	0	0	0	0	0
11/20/2024 18:51	42902	MIDD_T2	0	0	0	0	0	0	-1.18	-1.17	1	1	0	600	600	0
11/20/2024 18:51	64802	MONE_T2	2	27	25	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/20/2024 18:51	46504	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/20/2024 18:51	65206	PRIN_T4	2	2	0	1.85	3.95	2.1	0	0	0	0	0	0	0	0
11/20/2024 18:51	51602	DUKE_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
11/20/2024 18:51	45802	HEGI_T2	3	23	20	0.23	0.57	0.34	0	0	0	0	0	0	0	0
11/20/2024 18:51	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	-1.4	-1.41	1	1	0	600	600	0
11/20/2024 18:51	64201	KINZ_T1	1	4	3	1.6	0.33	-1.27	-1.17	-1.19	4	4	0	2400	2400	0
11/20/2024 18:51	50506	MECH_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
11/20/2024 18:51	46506	LOHA_T1	3	3	0	4.1	4.47	0.37	0	0	0	0	0	0	0	0
11/20/2024 18:51	54603	SUMM_T2	0	0	0	0	0	0	-0.44	-0.4	1	1	0	900	900	0
11/20/2024 18:51	64801	MONE_T2	0	0	0	0	0	0	0.14	0.2	0	0	0	0	0	0
11/20/2024 18:51	46004	BERW_T2	1	1	0	0.9	0.7	-0.2	-0.37	-0.34	0	0	0	0	0	0
11/20/2024 18:51	46505	LOHA_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
11/20/2024 18:51	65207	PRIN_T4	4	23	19	0.83	0.34	-0.49	0	0	0	0	0	0	0	0
11/20/2024 18:51	54601	SUMM_T2	2	7	5	0.25	0.23	-0.02	-2.93	-2.94	2	2	0	2100	2100	0
11/20/2024 18:51	64204	KINZ_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
11/20/2024 18:51	66302	MCGO_T2	0	0	0	0	0	0	-1.09	-1.05	0	0	0	0	0	0
11/20/2024 18:51	66505	SMAN_T2	3	3	0	0.43	0.6	0.17	-0.05	0.07	1	1	0	900	900	0
11/20/2024 18:51	50501	MECH_T1	4	4	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
11/20/2024 18:51	64704	LITI_T1	0	0	0	0	0	0	0.35	0.19	1	1	0	600	600	0
11/20/2024 18:52	66505	SMAN_T2	3	3	0	0.43	0.6	0.17	0	0	0	0	0	0	0	0
11/20/2024 18:52	66903	SHIL_T2	0	0	0	0	0	0	-1.02	-1.02	0	0	0	0	0	0
11/20/2024 18:52	52402	GRPA_T2	3	4	1	0.7	0.88	0.18	0	0	0	0	0	0	0	0
11/20/2024 18:52	66303	MCGO_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/20/2024 18:52	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:52	63803	HEMP_T1	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
11/20/2024 18:52	14603	SWHI_T1	0	0	0	0	0	0	-1.05	-1.05	1	1	0	600	600	0
11/20/2024 18:52	66504	SMAN_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
11/20/2024 18:52	57401	SPAN_T1	1	2	1	0.2	0.75	0.55	0	0	0	0	0	0	0	0
11/20/2024 18:52	54601	SUMM_T2	2	7	5	0.25	0.23	-0.02	-2.94	-2.97	2	2	0	2100	2100	0
11/20/2024 18:52	10502	CRAC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:52	47502	NECO_T1	0	0	0	0	0	0	1.11	1.13	0	0	0	0	0	0
11/20/2024 18:52	65802	RTWN_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
11/20/2024 18:52	44801	EDAN_T2	1	0	-1	0.3	0	-0.3	-1.39	-1.42	0	0	0	0	0	0
11/20/2024 18:52	14303	SUMN_T1	3	3	0	6.33	6.27	-0.06	0	0	0	0	0	0	0	0
11/20/2024 18:52	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:52	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
11/20/2024 18:52	14306	SUMN_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
11/20/2024 18:52	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/20/2024 18:52	52403	GRPA_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
11/20/2024 18:52	65601	QVIL_T2	0	3	3	0	0.1	0.1	-1.3	-1.34	1	1	0	900	900	0
11/20/2024 18:52	17001	RIRO_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
11/20/2024 18:52	14502	SCHO_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
11/20/2024 18:52	66301	MCGO_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
11/20/2024 18:52	10801	CHHI_T1	0	1	1	0	0	0	-0.99	-0.99	1	1	0	900	900	0
11/20/2024 18:52	10504	CRAC_T1	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
11/20/2024 18:52	60803	BUCK_T1	1	3	2	0.1	0.13	0.03	-0.57	-0.57	1	1	0	600	600	0
11/20/2024 18:52	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:52	52404	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/20/2024 18:52	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/20/2024 18:52	63804	HEMP_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
11/20/2024 18:52	54504	ENOL_T2	0	0	0	0	0	0	-1.11	-1.15	1	1	0	600	600	0
11/20/2024 18:52	63801	HEMP_T1	4	0	-4	1.58	0	-1.58	0	0	0	0	0	0	0	0
11/20/2024 18:52	57201	ROSS_T1	0	0	0	0	0	0	-0.89	-0.77	0	0	0	0	0	0
11/20/2024 18:52	10101	ALLE_T3	1	2	1	5.6	3.35	-2.25	0	0	0	0	0	0	0	0
11/20/2024 18:53	46506	LOHA_T1	3	3	0	4.1	4.47	0.37	0	0	0	0	0	0	0	0
11/20/2024 18:53	66502	SMAN_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
11/20/2024 18:53	48901	FOSP_T2	0	0	0	0	0	0	0.45	0.52	0	0	0	0	0	0
11/20/2024 18:53	65503	MOJO_T2	0	23	23	0	0.11	0.11	-0.28	-0.28	0	0	0	0	0	0
11/20/2024 18:53	58401	MORO_T1	0	0	0	0	0	0	-1.23	-1.21	1	1	0	600	600	0
11/20/2024 18:53	66505	SMAN_T2	3	3	0	0.43	0.6	0.17	0	0	0	0	0	0	0	0
11/20/2024 18:53	65205	PRIN_T1	1	2	1	2.1	1.15	-0.95	0	0	0	0	0	0	0	0
11/20/2024 18:53	64904	MILL_T1	0	0	0	0	0	0	0.36	-0.62	0	0	0	0	0	0
11/20/2024 18:53	46503	LOHA_T1	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
11/20/2024 18:53	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:53	22905	HARW_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/20/2024 18:53	53501	EVIL_T2	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
11/20/2024 18:53	67402	WAKE_T2	0	0	0	0	0	0	0.11	0.17	0	0	0	0	0	0
11/20/2024 18:53	64802	MONE_T2	2	27	25	0.1	0.13	0.03	0.05	0.06	0	0	0	0	0	0
11/20/2024 18:53	65202	PRIN_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/20/2024 18:53	53502	EVIL_T2	0	0	0	0	0	0	0.09	0.07	1	1	0	600	600	0
11/20/2024 18:53	57403	SPAN_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
11/20/2024 18:53	17804	GILB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:53	46504	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/20/2024 18:53	67401	WAKE_T2	0	0	0	0	0	0	-1.26	-1.24	0	0	0	0	0	0
11/20/2024 18:53	22903	HARW_T1	21	5	-16	0.72	0	-0.72	0	0	0	0	0	0	0	0
11/20/2024 18:53	57401	SPAN_T1	1	2	1	0.2	0.75	0.55	0	0	0	0	0	0	0	0
11/20/2024 18:53	17805	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:53	65502	MOJO_T2	115	202	87	0.12	0.16	0.04	0	0	0	0	0	0	0	0
11/20/2024 18:53	22901	HARW_T1	2	0	-2	0.55	0	-0.55	-0.44	-0.42	1	1	0	1200	1200	0
11/20/2024 18:53	51602	DUKE_T2	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
11/20/2024 18:53	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	-1.41	-1.41	1	1	0	600	600	0
11/20/2024 18:54	10502	CRAC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:54	65604	QVIL_T2	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
11/20/2024 18:54	60902	DONG_T2	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
11/20/2024 18:54	60803	BUCK_T1	1	3	2	0.1	0.13	0.03	-0.57	-0.57	1	1	0	600	600	0
11/20/2024 18:54	54502	ENOL_T2	0	0	0	0	0	0	-2.85	-2.78	0	0	0	0	0	0
11/20/2024 18:54	57203	ROSS_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
11/20/2024 18:54	57401	SPAN_T1	1	2	1	0.2	0.75	0.55	0	0	0	0	0	0	0	0
11/20/2024 18:54	61001	DONV_T1	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
11/20/2024 18:54	65601	QVIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/20/2024 18:54	51602	DUKE_T2	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
11/20/2024 18:54	57403	SPAN_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
11/20/2024 18:54	11801	FRAN_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
11/20/2024 18:54	56501	ROCK_T2	2	4	2	0.6	0.57	-0.03	-1.33	-1.29	0	0	0	0	0	0
11/20/2024 18:54	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/20/2024 18:54	67203	TEHI_T1	0	0	0	0	0	0	2.28	2.32	2	2	0	1500	1500	0
11/20/2024 18:54	50502	MECH_T1	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
11/20/2024 18:54	65202	PRIN_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/20/2024 18:54	50506	MECH_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
11/20/2024 18:54	65205	PRIN_T1	1	2	1	2.1	1.15	-0.95	0	0	0	0	0	0	0	0
11/20/2024 18:54	10801	CHHI_T1	0	1	1	0	0	0	-0.99	-0.99	1	1	0	900	900	0
11/20/2024 18:54	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:54	14502	SCHO_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
11/20/2024 18:54	51603	DUKE_T1	0	2	2	0	0.1	0.1	-0.39	-0.42	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/20/2024 18:54	50501	MECH_T1	4	4	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
11/20/2024 18:54	60102	COCA_T1	0	0	0	0	0	0	-0.15	-0.28	2	2	0	1200	1200	0
11/20/2024 18:55	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	-1.41	-1.41	1	1	0	600	600	0
11/20/2024 18:55	42902	MIDD_T2	0	0	0	0	0	0	-1.17	-1.22	1	1	0	600	600	0
11/20/2024 18:55	63804	HEMP_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
11/20/2024 18:55	56501	ROCK_T2	2	4	2	0.6	0.57	-0.03	-2.66	-2.58	0	0	0	0	0	0
11/20/2024 18:55	60803	BUCK_T1	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/20/2024 18:55	57403	SPAN_T1	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
11/20/2024 18:55	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:55	54502	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:55	65401	MARI_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
11/20/2024 18:55	42903	MIDD_T2	0	2	2	0	1	1	0	0	0	0	0	0	0	0
11/20/2024 18:55	54206	PENN_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
11/20/2024 18:55	57401	SPAN_T1	1	2	1	0.2	0.75	0.55	0	0	0	0	0	0	0	0
11/20/2024 18:55	63803	HEMP_T1	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
11/20/2024 18:55	45802	HEGI_T2	3	23	20	0.23	0.57	0.34	0.62	0.64	0	0	0	0	0	0
11/20/2024 18:55	44502	HAMI_T2	1	1	0	3.6	3.7	0.1	0	0	0	0	0	0	0	0
11/20/2024 18:55	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:55	41802	GOCI_T2	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
11/20/2024 18:55	41801	GOCI_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
11/20/2024 18:55	63801	HEMP_T1	4	0	-4	1.58	0	-1.58	0	0	0	0	0	0	0	0
11/20/2024 18:55	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
11/20/2024 18:56	10101	ALLE_T3	1	2	1	5.6	3.35	-2.25	0	0	0	0	0	0	0	0
11/20/2024 18:56	10503	CRAC_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
11/20/2024 18:56	63501	HEID_TBK1-2	1	6	5	0.7	0.27	-0.43	0.37	0.38	0	0	0	0	0	0
11/20/2024 18:56	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:56	64202	KINZ_T1	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
11/20/2024 18:56	67501	WEWI_T1	0	0	0	0	0	0	-0.58	-0.64	0	0	0	0	0	0
11/20/2024 18:56	10504	CRAC_T1	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
11/20/2024 18:56	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:56	64204	KINZ_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
11/20/2024 18:56	66505	SMAN_T2	3	3	0	0.43	0.6	0.17	0	0	0	0	0	0	0	0
11/20/2024 18:56	60803	BUCK_T1	1	3	2	0.1	0.13	0.03	-0.57	-0.57	1	1	0	600	600	0
11/20/2024 18:56	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	-1.41	-1.41	1	1	0	600	600	0
11/20/2024 18:56	10502	CRAC_T1	0	0	0	0	0	0	1.21	1.19	0	0	0	0	0	0
11/20/2024 18:56	17001	RIRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:56	60201	ATGL_T2	0	1	1	0	0.1	0.1	-0.18	-0.17	0	0	0	0	0	0
11/20/2024 18:56	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:56	52502	PROG_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
11/20/2024 18:56	14102	TRUM_T2	1	1	0	8.2	8.1	-0.1	0	0	2	2	0	1500	1500	0
11/20/2024 18:56	64201	KINZ_T1	1	4	3	1.6	0.33	-1.27	0	0	0	0	0	0	0	0
11/20/2024 18:56	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
11/20/2024 18:56	42902	MIDD_T2	0	0	0	0	0	0	-1.17	-1.22	1	1	0	600	600	0
11/20/2024 18:56	48901	FOSP_T2	0	0	0	0	0	0	0.45	0.52	0	0	0	0	0	0
11/20/2024 18:56	57205	ROSS_T1	0	0	0	0	0	0	0.04	0.07	0	0	0	0	0	0
11/20/2024 18:56	42903	MIDD_T2	0	2	2	0	1	1	0	0	0	0	0	0	0	0
11/20/2024 18:56	51603	DUKE_T1	0	2	2	0	0.1	0.1	-0.78	-0.84	0	0	0	0	0	0
11/20/2024 18:56	65601	QVIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/20/2024 18:56	66502	SMAN_T2	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
11/20/2024 18:56	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:57	65401	MARI_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
11/20/2024 18:57	60803	BUCK_T1	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/20/2024 18:57	66503	SMAN_T2	0	0	0	0	0	0	0.37	0.32	0	0	0	0	0	0
11/20/2024 18:57	63801	HEMP_T1	4	0	-4	1.58	0	-1.58	0	0	0	0	0	0	0	0
11/20/2024 18:57	55001	NEWP_T1	0	0	0	0	0	0	-0.32	-0.35	0	0	0	0	0	0
11/20/2024 18:57	63804	HEMP_T1	1	1	0	5.6	5.6	0	1.68	1.6	0	0	0	0	0	0
11/20/2024 18:57	66505	SMAN_T2	3	3	0	0.43	0.6	0.17	0	0	0	0	0	0	0	0
11/20/2024 18:57	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
11/20/2024 18:57	52502	PROG_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
11/20/2024 18:57	55002	NEWP_T1	5	6	1	0.84	1.12	0.28	0	0	0	0	0	0	0	0
11/20/2024 18:57	60801	BUCK_T1	0	0	0	0	0	0	-0.27	-0.21	0	0	0	0	0	0
11/20/2024 18:58	65502	MOJO_T2	115	202	87	0.12	0.16	0.04	0	0	0	0	0	0	0	0
11/20/2024 18:58	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:58	55002	NEWP_T1	5	6	1	0.84	1.12	0.28	0	0	0	0	0	0	0	0
11/20/2024 18:58	65601	QVIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/20/2024 18:58	55001	NEWP_T1	0	0	0	0	0	0	-0.32	-0.35	0	0	0	0	0	0
11/20/2024 18:58	66303	MCGO_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/20/2024 18:58	10504	CRAC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:58	67402	WAKE_T2	0	0	0	0	0	0	0.11	0.17	0	0	0	0	0	0
11/20/2024 18:58	10505	CRAC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 18:58	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	-2.82	-2.82	2	2	0	1200	1200	0
11/20/2024 18:58	52502	PROG_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
11/20/2024 18:58	64802	MONE_T2	2	27	25	0.1	0.13	0.03	0.05	0.06	0	0	0	0	0	0
11/20/2024 18:58	66301	MCGO_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
11/20/2024 18:58	64704	LITI_T1	0	0	0	0	0	0	0.35	0.19	1	1	0	600	600	0
11/20/2024 18:58	65503	MOJO_T2	0	23	23	0	0.11	0.11	0	0	0	0	0	0	0	0
11/20/2024 18:59	55002	NEWP_T1	5	6	1	0.84	1.12	0.28	0	0	0	0	0	0	0	0
11/20/2024 18:59	64204	KINZ_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
11/20/2024 18:59	67201	TEHI_T1	0	0	0	0	0	0	0.19	0.36	1	1	0	900	900	0
11/20/2024 18:59	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
11/20/2024 18:59	65601	QVIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/20/2024 18:59	54601	SUMM_T2	2	7	5	0.25	0.23	-0.02	-2.94	-2.97	2	2	0	2100	2100	0
11/20/2024 18:59	56501	ROCK_T2	2	4	2	0.6	0.57	-0.03	-1.33	-1.29	0	0	0	0	0	0
11/20/2024 18:59	55001	NEWP_T1	0	0	0	0	0	0	-0.32	-0.35	0	0	0	0	0	0
11/20/2024 18:59	65604	QVIL_T2	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
11/20/2024 18:59	65401	MARI_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
11/20/2024 18:59	64201	KINZ_T1	1	4	3	1.6	0.33	-1.27	0	0	0	0	0	0	0	0
11/20/2024 18:59	60803	BUCK_T1	1	3	2	0.1	0.13	0.03	-0.57	-0.57	1	1	0	600	600	0
11/20/2024 19:00	48902	FOSP_T2	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
11/20/2024 19:00	66502	SMAN_T2	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
11/20/2024 19:00	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 19:00	44301	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/20/2024 19:00	65601	QVIL_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/20/2024 19:00	64802	MONE_T2	27	0	-27	0.13	0	-0.13	0.05	0.06	0	0	0	0	0	0
11/20/2024 19:00	66505	SMAN_T2	3	3	0	0.53	0.6	0.07	0	0	0	0	0	0	0	0
11/20/2024 19:00	44302	BEAV_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
11/20/2024 19:01	63501	HEID_TBK1-2	1	14	13	0.5	0.18	-0.32	0.37	0.38	0	0	0	0	0	0
11/20/2024 19:01	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/20/2024 19:01	67402	WAKE_T2	0	0	0	0	0	0	0.11	0.17	0	0	0	0	0	0
11/20/2024 19:01	65601	QVIL_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/20/2024 19:02	64904	MILL_T1	0	0	0	0	0	0	0.36	-0.62	0	0	0	0	0	0
11/20/2024 19:04	13303	ORVI_T1	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
11/20/2024 19:07	65401	MARI_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
11/20/2024 19:08	14502	SCHO_T1	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
11/20/2024 19:09	55001	NEWP_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
11/20/2024 19:09	55002	NEWP_T1	6	6	0	1.08	1.17	0.09	0	0	0	0	0	0	0	0
11/20/2024 19:11	52502	PROG_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
11/20/2024 19:12	57203	ROSS_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
11/20/2024 19:16	48901	FOSP_T2	0	0	0	0	0	0	0.52	0.4	0	0	0	0	0	0
11/20/2024 19:22	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
11/20/2024 19:22	13905	SEID_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
11/20/2024 19:22	57201	ROSS_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
11/20/2024 19:30	55002	NEWP_T1	6	6	0	1.12	1.2	0.08	0	0	0	0	0	0	0	0
11/20/2024 19:30	55001	NEWP_T1	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
11/20/2024 19:41	28102	TWLA_T2	2	2	0	0.25	0.15	-0.1	0.2	0.18	0	0	0	0	0	0
11/20/2024 19:53	57401	SPAN_T1	2	2	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
11/20/2024 19:53	57403	SPAN_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
11/20/2024 21:17	65602	QVIL_T2	8	8	0	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
11/20/2024 21:17	65601	QVIL_T2	121	28	-93	0.26	0.13	-0.13	0	0	0	0	0	0	0	0
11/20/2024 21:17	65604	QVIL_T2	3	2	-1	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
11/20/2024 21:17	65603	QVIL_T2	41	14	-27	0.15	0.23	0.08	0.01	0	0	0	0	0	0	0
11/20/2024 21:21	64305	LINC_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
11/21/2024 7:43	51603	DUKE_T1	0	2	2	0	0.55	0.55	-0.27	-0.28	0	0	0	0	0	0
11/21/2024 7:47	55501	HERS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 7:47	55507	HERS_T1	3	22	19	0.17	0.31	0.14	-0.01	-0.01	0	0	0	0	0	0
11/21/2024 7:56	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 7:56	45501	DERR_T2	1	1	0	0.2	0.3	0.1	0.05	0.16	2	2	0	1800	1800	0
11/21/2024 7:58	57602	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 8:08	57101	SPHI_T2	0	6	6	0	0.88	0.88	0	0	0	0	0	0	0	0
11/21/2024 8:08	57104	SPHI_T2	1	2	1	1.4	1.3	-0.1	-1.23	-1.23	0	0	0	0	0	0
11/21/2024 8:08	57106	SPHI_T2	3	3	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
11/21/2024 8:08	43301	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
11/21/2024 8:08	43304	WATS_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/21/2024 8:09	57104	SPHI_T2	1	2	1	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
11/21/2024 8:09	57106	SPHI_T2	3	3	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
11/21/2024 8:09	57101	SPHI_T2	0	6	6	0	0.88	0.88	0	0	0	0	0	0	0	0
11/21/2024 8:10	45502	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/21/2024 8:10	57101	SPHI_T2	0	6	6	0	0.88	0.88	0	0	0	0	0	0	0	0
11/21/2024 8:10	57106	SPHI_T2	3	3	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
11/21/2024 8:10	57104	SPHI_T2	1	2	1	1.4	1.3	-0.1	-1.23	-1.23	0	0	0	0	0	0
11/21/2024 8:10	45501	DERR_T2	1	1	0	0.3	0.3	0	0.16	0.12	2	2	0	1800	1800	0
11/21/2024 8:13	55001	NEWP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/21/2024 8:13	55002	NEWP_T1	4	4	0	0.5	0.73	0.23	-0.22	-0.22	0	0	0	0	0	0
11/21/2024 8:14	45702	LIND_T2	1	1	0	1	0.9	-0.1	-1.81	-1.79	0	0	0	0	0	0
11/21/2024 8:16	54505	ENOL_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
11/21/2024 8:16	54502	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
11/21/2024 8:16	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 8:18	46602	LACR_T1	1	1	0	0.1	0.1	0	-0.94	-0.98	0	0	0	0	0	0
11/21/2024 8:19	64902	MILL_T2	0	1	1	0	0.1	0.1	-0.75	-0.74	1	1	0	900	900	0
11/21/2024 8:20	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 8:20	54502	ENOL_T2	1	1	0	0.6	0.8	0.2	-2.16	-2.05	1	1	0	600	600	0
11/21/2024 8:20	54505	ENOL_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
11/21/2024 8:21	64902	MILL_T2	0	1	1	0	0.1	0.1	-0.74	-0.79	1	1	0	900	900	0
11/21/2024 8:26	60903	DONG_T2	0	2	2	0	0.15	0.15	0.24	0.18	1	1	0	600	600	0
11/21/2024 8:26	60902	DONG_T2	0	6	6	0	0.17	0.17	0	0	0	0	0	0	0	0
11/21/2024 8:26	60901	DONG_T2	1	3	2	0.3	0.33	0.03	0	0	0	0	0	0	0	0
11/21/2024 8:29	53501	EVIL_T2	2	2	0	0.55	0.4	-0.15	-1.13	-1.15	3	3	0	2100	2100	0
11/21/2024 8:29	45701	LIND_T2	0	0	0	0	0	0	-1.64	-1.65	0	0	0	0	0	0
11/21/2024 8:29	45702	LIND_T2	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
11/21/2024 8:29	63501	HEID_TBK1-2	1	31	30	0.5	0.24	-0.26	0.14	0.05	1	1	0	900	900	0
11/21/2024 8:29	53502	EVIL_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
11/21/2024 8:30	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
11/21/2024 8:30	60901	DONG_T2	3	1	-2	0.33	0.5	0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/21/2024 8:30	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
11/21/2024 8:30	63501	HEID_T8K1-2	31	16	-15	0.23	0.25	0.02	0.27	0.09	2	2	0	1800	1800	0
11/21/2024 8:30	54506	ENOL_T2	0	0	0	0	0	0	0.37	0.45	1	1	0	600	600	0
11/21/2024 8:30	60903	DONG_T2	2	0	-2	0.15	0	-0.15	0.24	0.18	1	1	0	600	600	0
11/21/2024 8:30	60902	DONG_T2	6	1	-5	0.17	0.3	0.13	0	0	0	0	0	0	0	0
11/21/2024 8:30	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 8:32	64704	LITI_T1	0	0	0	0	0	0	0.35	0.38	1	1	0	600	600	0
11/21/2024 8:33	64704	LITI_T1	0	0	0	0	0	0	0.35	0.38	1	1	0	600	600	0
11/21/2024 8:33	45702	LIND_T2	1	1	0	0.6	0.7	0.1	-1.79	-1.8	0	0	0	0	0	0
11/21/2024 8:34	47401	PENS_T1	0	2	2	0	0.65	0.65	0.15	0.14	0	0	0	0	0	0
11/21/2024 8:34	47403	PENS_T1	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
11/21/2024 8:36	55101	WERT_T1	0	0	0	0	0	0	-1.35	-1.28	1	1	0	600	600	0
11/21/2024 8:37	67505	WEWI_T1	0	0	0	0	0	0	-0.05	-0.05	1	1	0	900	900	0
11/21/2024 8:44	51603	DUKE_T1	2	2	0	0.55	0.5	-0.05	-0.38	-0.25	0	0	0	0	0	0
11/21/2024 8:46	45702	LIND_T2	1	4	3	0.5	0.33	-0.17	-1.8	-1.83	0	0	0	0	0	0
11/21/2024 8:46	65402	MARI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 8:46	65401	MARI_T1	0	0	0	0	0	0	0.58	0.78	0	0	0	0	0	0
11/21/2024 8:48	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/21/2024 8:48	65702	RVIL_T2	0	0	0	0	0	0	-1.08	-1.1	1	1	0	600	600	0
11/21/2024 8:48	67605	WARW_T1	30	32	2	0.42	0.52	0.1	0	0	0	0	0	0	0	0
11/21/2024 8:49	65402	MARI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 8:49	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 8:52	64902	MILL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/21/2024 8:52	64903	MILL_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
11/21/2024 8:52	58202	NEWV_T1	1	0	-1	0.1	0	-0.1	-0.24	-0.2	0	0	0	0	0	0
11/21/2024 8:57	64902	MILL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/21/2024 8:57	64903	MILL_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
11/21/2024 8:57	41801	GOCI_T2	5	121	116	0.22	0.26	0.04	0	0	0	0	0	0	0	0
11/21/2024 8:59	63501	HEID_T8K1-2	3	16	13	0.6	0.25	-0.35	0.02	-0.01	1	1	0	900	900	0
11/21/2024 8:59	61306	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 8:59	61305	EARL_T1	0	0	0	0	0	0	0	0	2	2	0	1500	1500	0
11/21/2024 9:00	65702	RVIL_T2	0	1	1	0	0.1	0.1	-1.1	-1.08	1	1	0	600	600	0
11/21/2024 9:00	46602	LACR_T1	0	1	1	0	0.2	0.2	-1.01	-0.97	0	0	0	0	0	0
11/21/2024 9:00	40505	CRES_T1	0	1	1	0	0	0	0.28	0.3	0	0	0	0	0	0
11/21/2024 9:07	67502	WEWI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/21/2024 9:07	67503	WEWI_T2	1	1	0	9	9.1	0.1	-0.05	-0.04	0	0	0	0	0	0
11/21/2024 9:08	64802	MONE_T2	0	4	4	0	0.25	0.25	0.3	0.33	0	0	0	0	0	0
11/21/2024 9:08	16101	BING_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
11/21/2024 9:08	64801	MONE_T2	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
11/21/2024 9:09	57403	SPAN_T1	5	45	40	0.16	0.32	0.16	0.05	0.04	0	0	0	0	0	0
11/21/2024 9:09	28102	TWLA_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
11/21/2024 9:09	57401	SPAN_T1	2	2	0	1.2	1.45	0.25	0	0	0	0	0	0	0	0
11/21/2024 9:11	40703	FFLD_T1	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
11/21/2024 9:11	40701	FFLD_T1	27	32	5	0.29	0.39	0.1	0	0	0	0	0	0	0	0
11/21/2024 9:11	40702	FFLD_T1	2	3	1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
11/21/2024 9:12	54502	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 9:12	54505	ENOL_T2	1	1	0	0.9	0.9	0	-1.27	-1.3	1	1	0	600	600	0
11/21/2024 9:12	54501	ENOL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/21/2024 9:13	40701	FFLD_T1	27	32	5	0.29	0.39	0.1	0	0	0	0	0	0	0	0
11/21/2024 9:13	54501	ENOL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/21/2024 9:13	54502	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 9:13	40702	FFLD_T1	2	3	1	0.25	0.3	0.05	-0.36	-0.41	1	1	0	1200	1200	0
11/21/2024 9:13	40703	FFLD_T1	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
11/21/2024 9:13	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
11/21/2024 9:14	54505	ENOL_T2	1	1	0	0.9	0.9	0	-1.27	-1.3	1	1	0	600	600	0
11/21/2024 9:14	54502	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 9:14	54501	ENOL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/21/2024 9:15	63501	HEID_T8K1-2	5	15	10	0.44	0.28	-0.16	-0.01	0.01	1	1	0	900	900	0
11/21/2024 9:15	61305	EARL_T1	0	0	0	0	0	0	0	0	2	2	0	1500	1500	0
11/21/2024 9:16	54502	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
11/21/2024 9:16	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/21/2024 9:16	54501	ENOL_T2	2	4	2	0.1	0.23	0.13	-0.54	-0.5	1	1	0	600	600	0
11/21/2024 9:16	12006	HATF_T1	0	2	2	0	0	0	0.22	0.21	1	1	0	1200	1200	0
11/21/2024 9:18	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
11/21/2024 9:18	64302	LINC_T2	0	0	0	0	0	0	1.09	1.16	0	0	0	0	0	0
11/21/2024 9:18	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 9:18	46506	LOHA_T1	3	3	0	5.17	5.17	0	0	0	0	0	0	0	0	0
11/21/2024 9:18	47502	NECO_T1	1	1	0	0.2	0.3	0.1	1.29	1.32	0	0	0	0	0	0
11/21/2024 9:18	46504	LOHA_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/21/2024 9:20	57203	ROSS_T1	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
11/21/2024 9:20	57205	ROSS_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
11/21/2024 9:21	65702	RVIL_T2	0	1	1	0	0.1	0.1	-2.15	-2.17	2	2	0	1200	1200	0
11/21/2024 9:21	65601	QVIL_T2	0	1	1	0	0.1	0.1	-1.18	-1.16	1	1	0	900	900	0
11/21/2024 9:21	65602	QVIL_T2	0	12	12	0	0.18	0.18	0	0	0	0	0	0	0	0
11/21/2024 9:21	43302	WATS_T2	0	0	0	0	0	0	0	0	3	3	0	2400	2400	0
11/21/2024 9:22	60201	ATGL_T2	1	19	18	0.1	0.13	0.03	-0.21	-0.1	0	0	0	0	0	0
11/21/2024 9:22	14705	TREX_T1	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
11/21/2024 9:22	14704	TREX_T1	1	1	0	6.3	5.8	-0.5	0	0	0	0	0	0	0	0
11/21/2024 9:24	65702	RVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 9:25	61303	EARL_T1	0	0	0	0	0	0	0	0.57	0	0	0	0	0	0
11/21/2024 9:26	61303	EARL_T1	0	0	0	0	0	0	0	0.57	0	0	0	0	0	0
11/21/2024 9:26	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 9:29	58705	ROSE_T2	5	5	0	1.76	1.9	0.14	0	0	0	0	0	0	0	0
11/21/2024 9:29	54502	ENOL_T2	1	1	0	1	1.2	0.2	-2.18	-2.16	1	1	0	600	600	0
11/21/2024 9:29	58701	ROSE_T2	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
11/21/2024 9:29	54501	ENOL_T2	2	4	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
11/21/2024 9:29	58706	ROSE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 9:29	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/21/2024 9:32	45802	HEGI_T2	13	32	19	0.3	0.29	-0.01	2.51	2.42	0	0	0	0	0	0
11/21/2024 9:34	65603	QVIL_T2	0	0	0	0	0	0	0.47	0.37	0	0	0	0	0	0
11/21/2024 9:34	65601	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/21/2024 9:34	65602	QVIL_T2	2	12	10	0.1	0.18	0.08	0	0	0	0	0	0	0	0
11/21/2024 9:37	65602	QVIL_T2	2	12	10	0.1	0.18	0.08	0	0	0	0	0	0	0	0
11/21/2024 9:37	65603	QVIL_T2	0	0	0	0	0	0	0.75	1.04	0	0	0	0	0	0
11/21/2024 9:37	65601	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/21/2024 9:38	65601	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/21/2024 9:38	52502	PROG_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
11/21/2024 9:38	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 9:38	57205	ROSS_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
11/21/2024 9:38	13401	TELF_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/21/2024 9:38	65602	QVIL_T2	2	12	10	0.1	0.18	0.08	0	0	0	0	0	0	0	0
11/21/2024 9:38	57203	ROSS_T1	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
11/21/2024 9:39	57205	ROSS_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
11/21/2024 9:39	57201	ROSS_T1	0	0	0	0	0	0	-0.5	-0.46	0	0	0	0	0	0
11/21/2024 9:40	67402	WAKE_T2	0	0	0	0	0	0	0.31	0.31	1	1	0	600	600	0
11/21/2024 9:40	60102	COCA_T1	0	0	0	0	0	0	0.1	0.08	2	2	0	1200	1200	0
11/21/2024 9:41	58001	WCAR_T1	4	4	0	1.38	1.18	-0.2	0	0	0	0	0	0	0	0
11/21/2024 9:41	58003	WCAR_T1	1	1	0	1.6	1.2	-0.4	0.72	0.73	0	0	0	0	0	0
11/21/2024 9:42	53502	EVIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/21/2024 9:42	53501	EVIL_T2	2	3	1	0.65	0.73	0.08	-1.31	-1.16	3	3	0	2100	2100	0
11/21/2024 9:43	59202	THOM_T1	21	21	0	0.26	0.3	0.04	0	0	0	0	0	0	0	0
11/21/2024 9:43	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 9:45	41801	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/21/2024 9:46	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/21/2024 9:46	42902	MIDD_T2	2	3	1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
11/21/2024 9:46	42903	MIDD_T2	2	2	0	1.4	0.8	-0.6	-0.1	0.29	1	1	0	1200	1200	0
11/21/2024 9:48	45701	LIND_T2	0	0	0	0	0	0	-1.61	-1.61	0	0	0	0	0	0
11/21/2024 9:48	45702	LIND_T2	2	5	3	0.2	0.44	0.24	0	0	0	0	0	0	0	0
11/21/2024 9:49	45702	LIND_T2	2	5	3	0.2	0.44	0.24	-3.68	-3.62	0	0	0	0	0	0
11/21/2024 9:49	58202	NEWV_T1	0	0	0	0	0	0	0.39	0.5	0	0	0	0	0	0
11/21/2024 9:50	42903	MIDD_T2	2	2	0	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
11/21/2024 9:50	66502	SMAN_T2	4	8	4	0.2	0.29	0.09	0.67	0.75	0	0	0	0	0	0
11/21/2024 9:50	42902	MIDD_T2	2	3	1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
11/21/2024 9:50	66505	SMAN_T2	3	3	0	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
11/21/2024 9:50	66501	SMAN_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
11/21/2024 9:50	66504	SMAN_T2	3	4	1	0.47	0.58	0.11	-0.85	-0.81	0	0	0	0	0	0
11/21/2024 9:51	66504	SMAN_T2	3	4	1	0.47	0.58	0.11	0	0	0	0	0	0	0	0
11/21/2024 9:51	66505	SMAN_T2	3	3	0	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
11/21/2024 9:51	66501	SMAN_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
11/21/2024 9:51	66502	SMAN_T2	4	8	4	0.2	0.29	0.09	0	0	0	0	0	0	0	0
11/21/2024 9:52	66501	SMAN_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
11/21/2024 9:52	57205	ROSS_T1	2	2	0	0.3	0.6	0.3	0.11	0.11	0	0	0	0	0	0
11/21/2024 9:52	66505	SMAN_T2	3	3	0	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
11/21/2024 9:52	66504	SMAN_T2	3	4	1	0.47	0.58	0.11	-0.41	-0.46	0	0	0	0	0	0
11/21/2024 9:52	66502	SMAN_T2	4	8	4	0.2	0.29	0.09	0.75	0.52	0	0	0	0	0	0
11/21/2024 9:53	66504	SMAN_T2	3	4	1	0.47	0.58	0.11	0	0	0	0	0	0	0	0
11/21/2024 9:53	66502	SMAN_T2	4	8	4	0.2	0.29	0.09	0.37	0.26	0	0	0	0	0	0
11/21/2024 9:53	66501	SMAN_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
11/21/2024 9:53	66505	SMAN_T2	3	3	0	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
11/21/2024 9:54	66505	SMAN_T2	3	3	0	0.27	0.23	-0.04	-0.06	0.06	1	1	0	900	900	0
11/21/2024 9:54	66504	SMAN_T2	3	4	1	0.47	0.58	0.11	0	0	0	0	0	0	0	0
11/21/2024 9:54	66501	SMAN_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
11/21/2024 9:54	66502	SMAN_T2	4	8	4	0.2	0.29	0.09	0	0	0	0	0	0	0	0
11/21/2024 9:55	66502	SMAN_T2	4	8	4	0.2	0.29	0.09	0.37	0.26	0	0	0	0	0	0
11/21/2024 9:55	66504	SMAN_T2	3	4	1	0.47	0.58	0.11	0	0	0	0	0	0	0	0
11/21/2024 9:55	66505	SMAN_T2	3	3	0	0.27	0.23	-0.04	-0.06	0.06	1	1	0	900	900	0
11/21/2024 9:55	66501	SMAN_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
11/21/2024 9:56	45501	DERR_T2	0	0	0	0	0	0	0.08	0.08	2	2	0	1800	1800	0
11/21/2024 9:58	10205	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 9:58	10101	ALLE_T3	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
11/21/2024 9:58	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 9:58	54505	ENOL_T2	1	2	1	1	0.7	-0.3	-1.31	-1.29	1	1	0	600	600	0
11/21/2024 9:58	54501	ENOL_T2	4	4	0	0.23	0.33	0.1	0	0	0	0	0	0	0	0
11/21/2024 9:58	54502	ENOL_T2	1	8	7	1.2	0.26	-0.94	0	0	0	0	0	0	0	0
11/21/2024 9:59	59202	THOM_T1	21	5	-16	0.3	0.36	0.06	0	0	0	0	0	0	0	0
11/21/2024 9:59	54502	ENOL_T2	1	8	7	1.2	0.26	-0.94	-2.11	-2.14	1	1	0	600	600	0
11/21/2024 9:59	54501	ENOL_T2	4	4	0	0.23	0.33	0.1	0	0	0	0	0	0	0	0
11/21/2024 9:59	45802	HEGI_T2	14	27	13	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
11/21/2024 9:59	54505	ENOL_T2	1	2	1	1	0.7	-0.3	-2.62	-2.59	2	2	0	1200	1200	0
11/21/2024 10:00	53502	EVIL_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
11/21/2024 10:00	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 10:00	59202	THOM_T1	2	6	4	0.55	0.52	-0.03	0	0	0	0	0	0	0	0
11/21/2024 10:00	54505	ENOL_T2	2	1	-1	0.65	1.1	0.45	-3.93	-3.88	3	3	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/21/2024 10:00	54504	ENOL_T2	0	0	0	0	0	0	-1.09	-1.09	1	1	0	600	600	0
11/21/2024 10:00	53501	EVIL_T2	3	2	-1	0.27	1.1	0.83	-2.32	-2.41	6	6	0	4200	4200	0
11/21/2024 10:00	45501	DERR_T2	0	0	0	0	0	0	0.08	0.08	2	2	0	1800	1800	0
11/21/2024 10:00	54501	ENOL_T2	4	3	-1	0.33	0.23	-0.1	-0.54	-0.55	1	1	0	600	600	0
11/21/2024 10:00	54502	ENOL_T2	5	5	0	0.32	0.36	0.04	0	0	0	0	0	0	0	0
11/21/2024 10:01	57205	ROSS_T1	2	2	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
11/21/2024 10:01	57203	ROSS_T1	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
11/21/2024 10:01	54502	ENOL_T2	5	5	0	0.32	0.36	0.04	-2.11	-2.14	1	1	0	600	600	0
11/21/2024 10:01	54501	ENOL_T2	4	3	-1	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
11/21/2024 10:01	54505	ENOL_T2	2	1	-1	0.65	1.1	0.45	-2.62	-2.59	2	2	0	1200	1200	0
11/21/2024 10:01	53501	EVIL_T2	3	2	-1	0.27	1.1	0.83	-3.48	-3.62	9	9	0	6300	6300	0
11/21/2024 10:01	53502	EVIL_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
11/21/2024 10:01	57201	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 10:03	63501	HEID_TBK1-2	2	24	22	0.6	0.2	-0.4	-0.03	0.01	1	1	0	900	900	0
11/21/2024 10:03	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 10:03	60504	NMAN_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/21/2024 10:04	63501	HEID_TBK1-2	2	24	22	0.6	0.2	-0.4	-0.03	0.01	1	1	0	900	900	0
11/21/2024 10:05	54501	ENOL_T2	4	3	-1	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
11/21/2024 10:05	54505	ENOL_T2	2	1	-1	0.65	1.1	0.45	0	0	0	0	0	0	0	0
11/21/2024 10:05	63501	HEID_TBK1-2	2	24	22	0.6	0.2	-0.4	-0.03	0.01	1	1	0	900	900	0
11/21/2024 10:05	54502	ENOL_T2	5	5	0	0.32	0.36	0.04	0	0	0	0	0	0	0	0
11/21/2024 10:05	43201	MVIL_T2	0	0	0	0	0	0	-1.33	-1.35	0	0	0	0	0	0
11/21/2024 10:05	54506	ENOL_T2	0	0	0	0	0	0	0.45	0.38	1	1	0	600	600	0
11/21/2024 10:06	60502	NMAN_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
11/21/2024 10:06	67503	WEWI_T2	1	2	1	9.2	4.8	-4.4	-0.13	-0.09	0	0	0	0	0	0
11/21/2024 10:06	67502	WEWI_T2	2	87	85	0.15	0.22	0.07	-0.2	-0.19	0	0	0	0	0	0
11/21/2024 10:06	60504	NMAN_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/21/2024 10:08	67502	WEWI_T2	2	87	85	0.15	0.22	0.07	-0.2	-0.19	0	0	0	0	0	0
11/21/2024 10:08	67503	WEWI_T2	1	2	1	9.2	4.8	-4.4	-0.13	-0.09	0	0	0	0	0	0
11/21/2024 10:10	67503	WEWI_T2	1	2	1	9.2	4.8	-4.4	-0.13	-0.09	0	0	0	0	0	0
11/21/2024 10:10	67502	WEWI_T2	2	87	85	0.15	0.22	0.07	0	0	0	0	0	0	0	0
11/21/2024 10:14	54502	ENOL_T2	5	5	0	0.32	0.36	0.04	-2.14	-2.11	1	1	0	600	600	0
11/21/2024 10:14	54505	ENOL_T2	2	1	-1	0.65	1.1	0.45	-1.29	-1.31	1	1	0	600	600	0
11/21/2024 10:14	54501	ENOL_T2	4	3	-1	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
11/21/2024 10:15	65601	QVIL_T2	9	15	6	0.12	0.24	0.12	0	0	0	0	0	0	0	0
11/21/2024 10:15	54505	ENOL_T2	1	1	0	1.1	1	-0.1	-1.29	-1.31	1	1	0	600	600	0
11/21/2024 10:15	65603	QVIL_T2	0	0	0	0	0	0	0.48	0.52	0	0	0	0	0	0
11/21/2024 10:15	54502	ENOL_T2	5	1	-4	0.36	1.2	0.84	0	0	0	0	0	0	0	0
11/21/2024 10:15	54501	ENOL_T2	3	2	-1	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
11/21/2024 10:15	65602	QVIL_T2	2	24	22	0.15	0.22	0.07	0	0	0	0	0	0	0	0
11/21/2024 10:16	54501	ENOL_T2	3	2	-1	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
11/21/2024 10:16	54504	ENOL_T2	0	0	0	0	0	0	-1.09	-1.11	1	1	0	600	600	0
11/21/2024 10:16	54502	ENOL_T2	5	1	-4	0.36	1.2	0.84	0	0	0	0	0	0	0	0
11/21/2024 10:16	11801	FRAN_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
11/21/2024 10:16	54505	ENOL_T2	1	1	0	1.1	1	-0.1	-1.29	-1.31	1	1	0	600	600	0
11/21/2024 10:17	54501	ENOL_T2	3	2	-1	0.23	0.1	-0.13	-0.55	0.1	1	0	-1	600	0	-600
11/21/2024 10:17	54502	ENOL_T2	5	1	-4	0.36	1.2	0.84	-2.14	-2.11	1	1	0	600	600	0
11/21/2024 10:17	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.06	1	1	0	600	600	0
11/21/2024 10:17	54505	ENOL_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
11/21/2024 10:18	10805	CHHI_T2	44	3	-41	2.38	6.27	3.89	-1	-1	1	1	0	600	600	0
11/21/2024 10:18	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.06	1	1	0	600	600	0
11/21/2024 10:19	58402	MORO_T1	0	0	0	0	0	0	0.09	0.05	2	2	0	1500	1500	0
11/21/2024 10:20	54505	ENOL_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
11/21/2024 10:20	54502	ENOL_T2	5	1	-4	0.36	1.2	0.84	0	0	0	0	0	0	0	0
11/21/2024 10:20	54504	ENOL_T2	0	0	0	0	0	0	-1.09	-1.11	1	1	0	600	600	0
11/21/2024 10:20	54501	ENOL_T2	3	2	-1	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
11/21/2024 10:21	42901	MIDD_T2	3	15	12	0.5	0.34	-0.16	-0.36	-0.22	0	0	0	0	0	0
11/21/2024 10:21	54601	SUMM_T2	8	8	0	0.48	0.56	0.08	-2.97	-2.97	2	2	0	2100	2100	0
11/21/2024 10:21	54602	SUMM_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/21/2024 10:21	42903	MIDD_T2	2	2	0	0.6	1.2	0.6	0	0	0	0	0	0	0	0
11/21/2024 10:22	50504	MECH_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/21/2024 10:22	50501	MECH_T1	4	5	1	1.2	1.23	0.03	-0.12	-0.23	0	0	0	0	0	0
11/21/2024 10:22	50506	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/21/2024 10:22	50502	MECH_T1	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 10:22	50505	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 10:23	58001	WCAR_T1	4	4	0	1.25	1.38	0.13	0	0	0	0	0	0	0	0
11/21/2024 10:23	58003	WCAR_T1	1	1	0	1.4	1.6	0.2	0.71	0.75	0	0	0	0	0	0
11/21/2024 10:24	65602	QVIL_T2	2	24	22	0.15	0.22	0.07	0	0	0	0	0	0	0	0
11/21/2024 10:24	58001	WCAR_T1	4	4	0	1.25	1.38	0.13	0	0	0	0	0	0	0	0
11/21/2024 10:24	65601	QVIL_T2	9	15	6	0.12	0.24	0.12	0	0	0	0	0	0	0	0
11/21/2024 10:24	58003	WCAR_T1	1	1	0	1.4	1.6	0.2	1.42	1.49	0	0	0	0	0	0
11/21/2024 10:24	65603	QVIL_T2	0	0	0	0	0	0	0.52	0.43	0	0	0	0	0	0
11/21/2024 10:27	60901	DONG_T2	3	2	-1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
11/21/2024 10:27	60903	DONG_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/21/2024 10:27	60902	DONG_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/21/2024 10:28	60803	BUCK_T1	8	10	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
11/21/2024 10:28	60801	BUCK_T1	1	1	0	0.2	0.4	0.2	0.23	0.27	0	0	0	0	0	0
11/21/2024 10:31	54505	ENOL_T2	1	2	1	1	0.55	-0.45	-1.31	-1.31	1	1	0	600	600	0
11/21/2024 10:31	54502	ENOL_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
11/21/2024 10:31	54501	ENOL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/21/2024 10:32	46504	LOHA_T1	1	2	1	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
11/21/2024 10:32	42902	MIDD_T2	5	15	10	0.36	0.36	0	-0.11	-0.18	0	0	0	0	0	0
11/21/2024 10:32	46501	LOHA_T1	0	0	0	0	0	0	-0.06	-0.04	1	1	0	1200	1200	0
11/21/2024 10:32	46506	LOHA_T1	3	3	0	4.67	4.9	0.23	0	0	0	0	0	0	0	0
11/21/2024 10:32	42903	MIDD_T2	2	2	0	1	1.4	0.4	0	0	0	0	0	0	0	0
11/21/2024 10:33	43302	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/21/2024 10:33	52402	GRPA_T2	4	2	-2	0.78	0.5	-0.28	0	0	0	0	0	0	0	0
11/21/2024 10:33	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 10:33	52401	GRPA_T2	2	3	1	3.1	0.1	-3	0	0	0	0	0	0	0	0
11/21/2024 10:33	42903	MIDD_T2	2	2	0	1	1.4	0.4	0	0	0	0	0	0	0	0
11/21/2024 10:33	52403	GRPA_T2	1	1	0	1	0.8	-0.2	-0.12	-0.16	0	0	0	0	0	0
11/21/2024 10:33	42902	MIDD_T2	5	15	10	0.36	0.36	0	-0.11	-0.18	0	0	0	0	0	0
11/21/2024 10:34	42903	MIDD_T2	2	2	0	1	1.4	0.4	0	0	0	0	0	0	0	0
11/21/2024 10:34	42902	MIDD_T2	5	15	10	0.36	0.36	0	-0.11	-0.18	0	0	0	0	0	0
11/21/2024 10:35	54505	ENOL_T2	1	2	1	1	0.55	-0.45	-1.31	-1.31	1	1	0	600	600	0
11/21/2024 10:35	64701	LITI_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
11/21/2024 10:35	43302	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/21/2024 10:35	54502	ENOL_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
11/21/2024 10:35	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 10:35	54501	ENOL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/21/2024 10:35	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 10:37	66501	SMAN_T2	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
11/21/2024 10:37	66505	SMAN_T2	3	1	-2	0.33	0.1	-0.23	0	0	0	0	0	0	0	0
11/21/2024 10:37	66504	SMAN_T2	4	3	-1	0.48	0.5	0.02	0	0	0	0	0	0	0	0
11/21/2024 10:37	66503	SMAN_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
11/21/2024 10:37	66502	SMAN_T2	3	6	3	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
11/21/2024 10:38	66502	SMAN_T2	3	6	3	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
11/21/2024 10:38	57403	SPAN_T1	35	19	-16	0.29	0.24	-0.05	0.05	0.03	0	0	0	0	0	0
11/21/2024 10:38	66505	SMAN_T2	3	1	-2	0.33	0.1	-0.23	0	0	0	0	0	0	0	0
11/21/2024 10:38	66501	SMAN_T2	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
11/21/2024 10:38	57401	SPAN_T1	2	2	0	1.1	1.05	-0.05	0	0	0	0	0	0	0	0
11/21/2024 10:38	66504	SMAN_T2	4	3	-1	0.48	0.5	0.02	0	0	0	0	0	0	0	0
11/21/2024 10:38	14801	TREI_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
11/21/2024 10:39	67402	WAKE_T2	0	1	1	0	0.2	0.2	0.31	0.33	1	1	0	600	600	0
11/21/2024 10:39	67401	WAKE_T2	2	4	2	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
11/21/2024 10:40	66502	SMAN_T2	3	6	3	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
11/21/2024 10:40	66505	SMAN_T2	3	1	-2	0.33	0.1	-0.23	0	0	0	0	0	0	0	0
11/21/2024 10:40	66504	SMAN_T2	4	3	-1	0.48	0.5	0.02	-0.55	-0.55	0	0	0	0	0	0
11/21/2024 10:40	14801	TREI_T2	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
11/21/2024 10:40	66501	SMAN_T2	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
11/21/2024 10:41	66504	SMAN_T2	4	3	-1	0.48	0.5	0.02	0	0	0	0	0	0	0	0
11/21/2024 10:41	66505	SMAN_T2	3	1	-2	0.33	0.1	-0.23	0	0	0	0	0	0	0	0
11/21/2024 10:41	66502	SMAN_T2	3	6	3	0.27	0.22	-0.05	0.29	0.3	0	0	0	0	0	0
11/21/2024 10:41	66501	SMAN_T2	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
11/21/2024 10:42	57205	ROSS_T1	2	4	2	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
11/21/2024 10:42	57203	ROSS_T1	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
11/21/2024 10:42	57201	ROSS_T1	1	9	8	0.1	0.12	0.02	0	0	0	0	0	0	0	0
11/21/2024 10:43	64202	KINZ_T1	0	0	0	0	0	0	0.65	0.67	0	0	0	0	0	0
11/21/2024 10:43	64204	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 10:48	14204	FALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 10:50	50502	MECH_T1	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
11/21/2024 10:50	50504	MECH_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/21/2024 10:50	50501	MECH_T1	4	4	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
11/21/2024 10:50	50505	MECH_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/21/2024 10:50	50506	MECH_T1	1	2	1	0.2	0.15	-0.05	-0.38	-0.41	1	1	0	900	900	0
11/21/2024 10:51	42902	MIDD_T2	15	10	-5	0.33	0.35	0.02	0	0	0	0	0	0	0	0
11/21/2024 10:51	50501	MECH_T1	4	4	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
11/21/2024 10:51	50504	MECH_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/21/2024 10:51	50506	MECH_T1	1	2	1	0.2	0.15	-0.05	-0.38	-0.41	1	1	0	900	900	0
11/21/2024 10:51	42903	MIDD_T2	2	2	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
11/21/2024 10:51	50502	MECH_T1	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
11/21/2024 10:51	50505	MECH_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/21/2024 10:52	50505	MECH_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/21/2024 10:52	50504	MECH_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/21/2024 10:52	50501	MECH_T1	4	4	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
11/21/2024 10:52	50502	MECH_T1	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
11/21/2024 10:52	50506	MECH_T1	1	2	1	0.2	0.15	-0.05	-0.41	0.52	1	0	-1	900	0	-900
11/21/2024 10:53	42902	MIDD_T2	15	10	-5	0.33	0.35	0.02	-0.22	-0.29	0	0	0	0	0	0
11/21/2024 10:53	42903	MIDD_T2	2	2	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
11/21/2024 10:54	66503	SMAN_T2	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
11/21/2024 10:54	66504	SMAN_T2	2	3	1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
11/21/2024 10:54	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 10:54	66501	SMAN_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/21/2024 10:54	66502	SMAN_T2	2	6	4	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
11/21/2024 10:55	54503	ENOL_T2	0	0	0	0	0	0	-0.46	-0.45	1	1	0	600	600	0
11/21/2024 10:55	54505	ENOL_T2	1	2	1	1	0.85	-0.15	0	0	0	0	0	0	0	0
11/21/2024 10:55	54502	ENOL_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
11/21/2024 10:58	57201	ROSS_T1	7	9	2	0.1	0.12	0.02	-0.5	-0.43	0	0	0	0	0	0
11/21/2024 10:58	57205	ROSS_T1	2	4	2	1.05	0.58	-0.47	0	0	0	0	0	0	0	0
11/21/2024 10:59	64801	MONE_T2	28	33	5	0.18	0.19	0.01	0.28	0.25	0	0	0	0	0	0
11/21/2024 10:59	64802	MONE_T2	115	125	10	0.22	0.25	0.03	0	0	0	0	0	0	0	0
11/21/2024 11:00	46803	HEPB_T2	0	3	3	0	0.37	0.37	0.44	0.46	0	0	0	0	0	0
11/21/2024 11:00	46801	HEPB_T2	0	6	6	0	0.55	0.55	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/21/2024 11:01	22903	HARW_T1	2	19	17	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/21/2024 11:01	22905	HARW_T1	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
11/21/2024 11:01	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 11:01	22901	HARW_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 11:02	20201	JERM_T1	0	0	0	0	0	0	-0.21	-0.27	2	2	0	2400	2400	0
11/21/2024 11:02	63801	HEMP_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
11/21/2024 11:02	63804	HEMP_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
11/21/2024 11:02	63803	HEMP_T1	2	2	0	0.55	0.4	-0.15	0.06	0.1	0	0	0	0	0	0
11/21/2024 11:04	65503	MOJO_T2	0	0	0	0	0	0	0.04	-0.03	0	0	0	0	0	0
11/21/2024 11:06	11407	FARM_T1	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
11/21/2024 11:07	57403	SPAN_T1	19	28	9	0.23	0.29	0.06	0	0	0	0	0	0	0	0
11/21/2024 11:07	57401	SPAN_T1	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
11/21/2024 11:10	66504	SMAN_T2	3	3	0	0.5	0.73	0.23	0	0	0	0	0	0	0	0
11/21/2024 11:10	66502	SMAN_T2	6	0	-6	0.22	0	-0.22	0	0	0	0	0	0	0	0
11/21/2024 11:10	66505	SMAN_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/21/2024 11:10	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 11:11	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 11:11	66504	SMAN_T2	3	3	0	0.5	0.73	0.23	0	0	0	0	0	0	0	0
11/21/2024 11:11	66502	SMAN_T2	6	0	-6	0.22	0	-0.22	0	0	0	0	0	0	0	0
11/21/2024 11:11	66505	SMAN_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/21/2024 11:12	64903	MILL_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
11/21/2024 11:12	64902	MILL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/21/2024 11:14	66504	SMAN_T2	3	3	0	0.5	0.73	0.23	0	0	0	0	0	0	0	0
11/21/2024 11:14	66502	SMAN_T2	6	0	-6	0.22	0	-0.22	0	0	0	0	0	0	0	0
11/21/2024 11:14	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 11:14	66505	SMAN_T2	1	3	2	0.1	0.17	0.07	-0.05	-0.13	1	1	0	900	900	0
11/21/2024 11:16	10801	CHHI_T1	0	0	0	0	0	0	-0.86	-0.92	1	1	0	900	900	0
11/21/2024 11:17	64702	LITI_T2	0	0	0	0	0	0	-0.75	-0.81	0	0	0	0	0	0
11/21/2024 11:18	17002	RIRO_T2	40	42	2	0.18	0.17	-0.01	0.68	0.63	0	0	0	0	0	0
11/21/2024 11:19	64702	LITI_T2	0	0	0	0	0	0	-0.75	-0.81	0	0	0	0	0	0
11/21/2024 11:20	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 11:25	57205	ROSS_T1	2	4	2	1	0.73	-0.27	0	0	0	0	0	0	0	0
11/21/2024 11:25	57201	ROSS_T1	1	7	6	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
11/21/2024 11:25	57203	ROSS_T1	0	0	0	0	0	0	-0.36	-0.32	0	0	0	0	0	0
11/21/2024 11:27	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/21/2024 11:27	24702	FLND_T2	0	0	0	0	0	0	1.05	0.68	1	1	0	1200	1200	0
11/21/2024 11:27	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 11:28	40101	HUNT_T2	1	17	16	1	0.13	-0.87	-0.42	-0.47	0	0	0	0	0	0
11/21/2024 11:28	24702	FLND_T2	0	0	0	0	0	0	1.05	0.68	1	1	0	1200	1200	0
11/21/2024 11:30	40101	HUNT_T2	16	6	-10	0.23	0	-0.23	-0.42	-0.47	0	0	0	0	0	0
11/21/2024 11:31	63804	HEMP_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
11/21/2024 11:31	63803	HEMP_T1	2	1	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
11/21/2024 11:31	63801	HEMP_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/21/2024 11:31	63802	HEMP_T1	0	0	0	0	0	0	0.25	0.31	0	0	0	0	0	0
11/21/2024 11:32	40101	HUNT_T2	16	6	-10	0.23	0	-0.23	-0.42	-0.47	0	0	0	0	0	0
11/21/2024 11:34	40101	HUNT_T2	16	6	-10	0.23	0	-0.23	-0.42	-0.47	0	0	0	0	0	0
11/21/2024 11:35	64901	MILL_T1	25	0	-25	0.18	0	-0.18	0	0	0	0	0	0	0	0
11/21/2024 11:35	54502	ENOL_T2	1	1	0	0.9	0.8	-0.1	-2.12	-2.14	1	1	0	600	600	0
11/21/2024 11:35	64904	MILL_T1	1	0	-1	0.4	0	-0.4	0.41	0.42	0	0	0	0	0	0
11/21/2024 11:35	54505	ENOL_T2	2	1	-1	0.8	0.9	0.1	0	0	0	0	0	0	0	0
11/21/2024 11:37	47401	PENS_T1	5	5	0	1.28	0.7	-0.58	0.2	0.33	0	0	0	0	0	0
11/21/2024 11:37	47403	PENS_T1	1	2	1	2	0.75	-1.25	0	0	0	0	0	0	0	0
11/21/2024 11:37	47402	PENS_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/21/2024 11:41	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 11:41	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
11/21/2024 11:41	66505	SMAN_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
11/21/2024 11:41	66504	SMAN_T2	3	2	-1	0.73	0.8	0.07	0	0	0	0	0	0	0	0
11/21/2024 11:44	62106	ELAN_T1	0	0	0	0	0	0	1.02	1.07	0	0	0	0	0	0
11/21/2024 11:45	64101	REFR_T1	1	2	1	0.3	0.15	-0.15	0.2	0.1	0	0	0	0	0	0
11/21/2024 11:48	64101	REFR_T1	1	2	1	0.3	0.15	-0.15	0.1	0.05	0	0	0	0	0	0
11/21/2024 11:49	64101	REFR_T1	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
11/21/2024 11:55	57403	SPAN_T1	19	30	11	0.24	0.29	0.05	0.03	0.02	0	0	0	0	0	0
11/21/2024 11:55	57401	SPAN_T1	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
11/21/2024 11:56	57403	SPAN_T1	19	30	11	0.24	0.29	0.05	0.03	0.02	0	0	0	0	0	0
11/21/2024 11:56	57401	SPAN_T1	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
11/21/2024 11:57	66504	SMAN_T2	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/21/2024 11:57	66501	SMAN_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
11/21/2024 11:57	66502	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/21/2024 11:59	66502	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/21/2024 11:59	66501	SMAN_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
11/21/2024 11:59	66504	SMAN_T2	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/21/2024 12:00	44502	HAMI_T2	0	1	1	0	3.1	3.1	-0.88	-0.89	0	0	0	0	0	0
11/21/2024 12:01	63804	HEMP_T1	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
11/21/2024 12:01	63801	HEMP_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
11/21/2024 12:01	63803	HEMP_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/21/2024 12:01	63802	HEMP_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
11/21/2024 12:02	46801	HEPB_T2	23	21	-2	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
11/21/2024 12:02	46803	HEPB_T2	4	8	4	0.2	0.25	0.05	0.46	0.42	0	0	0	0	0	0
11/21/2024 12:03	54203	PENN_T1	21	21	0	1.12	1.17	0.05	0	0	0	0	0	0	0	0
11/21/2024 12:03	54201	PENN_T1	9	10	1	0.83	0.84	0.01	0.15	0.14	0	0	0	0	0	0
11/21/2024 12:04	58402	MORO_T1	0	0	0	0	0	0	0	-0.03	2	2	0	1500	1500	0
11/21/2024 12:04	54201	PENN_T1	9	10	1	0.83	0.84	0.01	0	0	0	0	0	0	0	0
11/21/2024 12:04	54206	PENN_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
11/21/2024 12:04	54202	PENN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/21/2024 12:04	54203	PENN_T1	21	21	0	1.12	1.17	0.05	-0.03	0.04	0	0	0	0	0	0
11/21/2024 12:04	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 12:05	56501	ROCK_T2	9	7	-2	0.33	0.26	-0.07	-1.33	-1.3	0	0	0	0	0	0
11/21/2024 12:06	15203	SFAR_T2	1	3	2	0.1	0.13	0.03	-1.33	-1.33	0	0	0	0	0	0
11/21/2024 12:06	42802	SELI_T1	0	1	1	0	0.2	0.2	-1.33	-1.32	1	1	0	900	900	0
11/21/2024 12:06	56501	ROCK_T2	9	7	-2	0.33	0.26	-0.07	-1.33	-1.3	0	0	0	0	0	0
11/21/2024 12:06	15203	SFAR_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
11/21/2024 12:07	56501	ROCK_T2	9	7	-2	0.33	0.26	-0.07	-1.3	-1.33	0	0	0	0	0	0
11/21/2024 12:08	15202	SFAR_T1	0	0	0	0	0	0	-0.76	-0.78	1	1	0	1200	1200	0
11/21/2024 12:08	42802	SELI_T1	0	1	1	0	0.2	0.2	-2.64	-2.63	2	2	0	1800	1800	0
11/21/2024 12:08	54203	PENN_T1	21	21	0	1.12	1.17	0.05	0.04	-0.03	0	0	0	0	0	0
11/21/2024 12:08	15203	SFAR_T2	1	3	2	0.1	0.13	0.03	-5.32	-5.32	0	0	0	0	0	0
11/21/2024 12:08	56501	ROCK_T2	9	7	-2	0.33	0.26	-0.07	-1.3	-1.33	0	0	0	0	0	0
11/21/2024 12:08	54201	PENN_T1	9	10	1	0.83	0.84	0.01	0	0	0	0	0	0	0	0
11/21/2024 12:08	15201	SFAR_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
11/21/2024 12:09	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 12:09	56501	ROCK_T2	9	7	-2	0.33	0.26	-0.07	-2.59	-2.65	0	0	0	0	0	0
11/21/2024 12:12	57201	ROSS_T1	10	3	-7	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
11/21/2024 12:12	42802	SELI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/21/2024 12:12	57205	ROSS_T1	2	2	0	0.9	0.3	-0.6	0.11	0.1	0	0	0	0	0	0
11/21/2024 12:13	66504	SMAN_T2	2	2	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
11/21/2024 12:13	66501	SMAN_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/21/2024 12:13	66502	SMAN_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/21/2024 12:15	45802	HEGI_T2	21	43	22	0.63	0.88	0.25	0.34	0.26	1	1	0	900	900	0
11/21/2024 12:16	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/21/2024 12:16	64101	REFR_T1	1	0	-1	0.2	0	-0.2	0.35	0.16	0	0	0	0	0	0
11/21/2024 12:17	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	-2.05	-2.16	1	1	0	600	600	0
11/21/2024 12:17	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/21/2024 12:18	64101	REFR_T1	1	0	-1	0.2	0	-0.2	0.09	0.04	0	0	0	0	0	0
11/21/2024 12:19	64101	REFR_T1	1	0	-1	0.2	0	-0.2	0.18	0.08	0	0	0	0	0	0
11/21/2024 12:20	43302	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/21/2024 12:20	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 12:20	64101	REFR_T1	1	0	-1	0.2	0	-0.2	0.18	0.08	0	0	0	0	0	0
11/21/2024 12:24	15103	UPHA_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
11/21/2024 12:26	43304	WATS_T2	0	0	0	0	0	0	0	0	0	1	1	0	600	600
11/21/2024 12:26	46004	BERW_T2	0	1	1	0	0	0	-0.39	-0.42	0	0	0	0	0	0
11/21/2024 12:30	43304	WATS_T2	0	0	0	0	0	0	0	0	0	1	1	0	600	600
11/21/2024 12:38	15203	SFAR_T2	1	1	0	0.1	0.1	0	-1.33	-1.34	0	0	0	0	0	0
11/21/2024 12:41	43304	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/21/2024 12:41	62105	ELAN_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
11/21/2024 12:41	62102	ELAN_T1	1	3	2	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
11/21/2024 12:42	45501	DERR_T2	0	0	0	0	0	0	-0.08	-0.05	2	2	0	1800	1800	0
11/21/2024 12:43	43304	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
11/21/2024 12:43	45501	DERR_T2	0	0	0	0	0	0	-0.08	-0.05	2	2	0	1800	1800	0
11/21/2024 12:44	43304	WATS_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/21/2024 12:45	62106	ELAN_T1	0	0	0	0	0	0	0.57	0.45	0	0	0	0	0	0
11/21/2024 12:45	43304	WATS_T2	0	0	0	0	0	0	0	0	3	3	0	1800	1800	0
11/21/2024 12:45	62102	ELAN_T1	2	3	1	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
11/21/2024 12:45	45802	HEGI_T2	43	27	-16	0.88	0.43	-0.45	0	0	0	0	0	0	0	0
11/21/2024 12:46	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 12:46	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 12:47	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 12:48	43202	MVIL_T2	0	0	0	0	0	0	-0.6	-0.66	0	0	0	0	0	0
11/21/2024 12:48	63501	HEID_TBK1-2	1	8	7	0.1	0.2	0.1	0.02	-0.06	1	1	0	900	900	0
11/21/2024 12:50	64704	LITI_T1	0	0	0	0	0	0	0.09	0.08	1	1	0	600	600	0
11/21/2024 12:51	63501	HEID_TBK1-2	1	8	7	0.1	0.2	0.1	-0.06	-0.03	1	1	0	900	900	0
11/21/2024 12:52	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 12:52	65503	MOJO_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/21/2024 12:55	62102	ELAN_T1	2	3	1	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
11/21/2024 12:55	62105	ELAN_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
11/21/2024 12:58	66504	SMAN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
11/21/2024 12:58	66505	SMAN_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/21/2024 12:58	66501	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/21/2024 12:59	66501	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/21/2024 12:59	66504	SMAN_T2	0	2	2	0	0.45	0.45	-0.48	-0.49	0	0	0	0	0	0
11/21/2024 12:59	66505	SMAN_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/21/2024 13:00	66505	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/21/2024 13:00	66504	SMAN_T2	2	1	-1	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
11/21/2024 13:00	66501	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/21/2024 13:02	17802	GILB_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
11/21/2024 13:07	65503	MOJO_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/21/2024 13:07	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 13:09	59101	WALK_T2	0	59	59	0	0.43	0.43	-0.5	-0.6	0	0	0	0	0	0
11/21/2024 13:10	59101	WALK_T2	0	59	59	0	0.43	0.43	0	0	0	0	0	0	0	0
11/21/2024 13:12	55508	HERS_T2	407	344	-63	0.61	0.5	-0.11	-2.64	-2.64	1	1	0	1200	1200	0
11/21/2024 13:13	55507	HERS_T1	3	0	-3	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
11/21/2024 13:13	55508	HERS_T2	407	344	-63	0.61	0.5	-0.11	0	0	0	0	0	0	0	0
11/21/2024 13:14	55508	HERS_T2	407	344	-63	0.61	0.5	-0.11	-2.64	-2.64	1	1	0	1200	1200	0
11/21/2024 13:16	14201	EALL_T1	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/21/2024 13:18	45802	HEGI_T2	12	8	-4	0.55	0.75	0.2	0.45	0.39	1	1	0	900	900	0
11/21/2024 13:20	13302	ORVI_T2	0	0	0	0	0	0	1.43	1.55	0	0	0	0	0	0
11/21/2024 13:22	15204	SFAR_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
11/21/2024 13:22	67203	TEHI_T1	0	0	0	0	0	0	3.06	3.04	2	2	0	1500	1500	0
11/21/2024 13:23	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 13:23	65501	MOJO_T1	0	0	0	0	0	0	-1.1	-1.04	1	1	0	900	900	0
11/21/2024 13:25	64204	KINZ_T1	1	3	2	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
11/21/2024 13:25	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 13:25	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 13:26	64201	KINZ_T1	0	0	0	0	0	0	-0.97	-0.97	4	4	0	2100	2100	0
11/21/2024 13:26	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 13:26	64204	KINZ_T1	1	3	2	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
11/21/2024 13:27	64204	KINZ_T1	1	3	2	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
11/21/2024 13:27	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 13:27	64201	KINZ_T1	0	0	0	0	0	0	-0.97	-0.97	4	4	0	2100	2100	0
11/21/2024 13:28	62105	ELAN_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
11/21/2024 13:28	62102	ELAN_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
11/21/2024 13:33	40101	HUNT_T2	0	15	15	0	0.2	0.2	-0.7	-0.49	0	0	0	0	0	0
11/21/2024 13:43	62102	ELAN_T1	1	1	0	0.7	0.4	-0.3	0.59	0.53	0	0	0	0	0	0
11/21/2024 13:46	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 13:46	62102	ELAN_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/21/2024 13:47	62105	ELAN_T1	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
11/21/2024 13:47	62102	ELAN_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/21/2024 13:48	62102	ELAN_T1	1	0	-1	0.4	0	-0.4	0.59	0.53	0	0	0	0	0	0
11/21/2024 13:50	55002	NEWP_T1	5	6	1	0.52	0.72	0.2	0	0	0	0	0	0	0	0
11/21/2024 13:50	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 13:50	55001	NEWP_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
11/21/2024 13:53	24902	WHHA_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
11/21/2024 13:53	24901	WHHA_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
11/21/2024 13:54	15202	SFAR_T1	0	0	0	0	0	0	-0.77	-0.83	1	1	0	1200	1200	0
11/21/2024 13:59	53901	HALI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 13:59	53902	HALI_T2	1	1	0	4.6	5	0.4	0	0	0	0	0	0	0	0
11/21/2024 13:59	53903	HALI_T2	2	2	0	0.55	0.85	0.3	0	0	0	0	0	0	0	0
11/21/2024 14:03	64302	LINC_T2	0	0	0	0	0	0	1.1	1.24	0	0	0	0	0	0
11/21/2024 14:05	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 14:07	47401	PENS_T1	9	2	-7	0.13	0.3	0.17	0	0	0	0	0	0	0	0
11/21/2024 14:07	47403	PENS_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
11/21/2024 14:08	67402	WAKE_T2	0	0	0	0	0	0	-0.24	-0.24	1	1	0	600	600	0
11/21/2024 14:09	47403	PENS_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
11/21/2024 14:09	47401	PENS_T1	9	2	-7	0.13	0.3	0.17	-0.93	0.25	0	0	0	0	0	0
11/21/2024 14:15	63804	HEMP_T1	1	1	0	6.2	5.9	-0.3	0	0	0	0	0	0	0	0
11/21/2024 14:15	63802	HEMP_T1	0	0	0	0	0	0	0.08	0.18	0	0	0	0	0	0
11/21/2024 14:15	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 14:17	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 14:17	63802	HEMP_T1	0	0	0	0	0	0	0.08	0.18	0	0	0	0	0	0
11/21/2024 14:17	63804	HEMP_T1	1	1	0	6.2	5.9	-0.3	0	0	0	0	0	0	0	0
11/21/2024 14:19	60502	NMAN_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
11/21/2024 14:20	60502	NMAN_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
11/21/2024 14:21	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 14:35	66903	SHIL_T2	0	0	0	0	0	0	-1.06	-1.05	0	0	0	0	0	0
11/21/2024 14:36	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 14:36	67106	SPRI_T2	0	0	0	0	0	0	-1.63	-1.2	1	1	0	600	600	0
11/21/2024 14:36	52402	GRPA_T2	2	1	-1	0.15	0.1	-0.05	-0.86	-0.84	0	0	0	0	0	0
11/21/2024 14:37	67402	WAKE_T2	0	0	0	0	0	0	-0.48	-0.5	1	1	0	600	600	0
11/21/2024 14:38	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 14:39	66903	SHIL_T2	0	0	0	0	0	0	-1.05	-1.01	0	0	0	0	0	0
11/21/2024 14:40	67106	SPRI_T2	0	0	0	0	0	0	-1.63	-1.2	1	1	0	600	600	0
11/21/2024 14:44	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 14:44	62104	ELAN_T1	0	0	0	0	0	0	0.88	0.82	2	2	0	1500	1500	0
11/21/2024 14:46	62104	ELAN_T1	0	0	0	0	0	0	1.77	1.63	4	4	0	3000	3000	0
11/21/2024 14:46	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/21/2024 14:48	62105	ELAN_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
11/21/2024 14:48	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/21/2024 14:50	52404	GRPA_T2	0	0	0	0	0	0	1.09	1.02	0	0	0	0	0	0
11/21/2024 14:50	52403	GRPA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
11/21/2024 14:50	52401	GRPA_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
11/21/2024 14:50	52402	GRPA_T2	0	3	3	0	0.77	0.77	0	0	0	0	0	0	0	0
11/21/2024 14:51	43801	SWIL_T1	15	47	32	0.49	0.29	-0.2	0	0	0	0	0	0	0	0
11/21/2024 14:51	43802	SWIL_T1	0	0	0	0	0	0	-0.44	-0.4	2	2	0	1200	1200	0
11/21/2024 14:52	43801	SWIL_T1	15	47	32	0.49	0.29	-0.2	0	0	0	0	0	0	0	0
11/21/2024 14:52	43802	SWIL_T1	0	0	0	0	0	0	-0.2	-0.2	1	1	0	600	600	0
11/21/2024 14:53	55002	NEWP_T1	6	6	0	0.93	0.93	0	-0.25	-0.22	0	0	0	0	0	0
11/21/2024 15:01	40101	HUNT_T2	3	2	-1	0.3	0	-0.3	-0.49	-0.49	0	0	0	0	0	0
11/21/2024 15:09	55002	NEWP_T1	6	6	0	0.67	1.07	0.4	-0.22	-0.24	0	0	0	0	0	0
11/21/2024 15:13	66505	SMAN_T2	3	3	0	0.23	0.5	0.27	0	0	0	0	0	0	0	0
11/21/2024 15:13	66504	SMAN_T2	0	0	0	0	0	0	-0.49	-0.43	0	0	0	0	0	0
11/21/2024 15:14	66504	SMAN_T2	0	0	0	0	0	0	-0.49	-0.43	0	0	0	0	0	0
11/21/2024 15:14	66505	SMAN_T2	3	3	0	0.23	0.5	0.27	0	0	0	0	0	0	0	0
11/21/2024 15:18	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 15:50	55507	HERS_T1	3	3	0	0.17	0.1	-0.07	-0.01	-0.01	0	0	0	0	0	0
11/21/2024 16:37	64701	LITI_T1	0	0	0	0	0	0	0.2	0.24	0	0	0	0	0	0
11/21/2024 17:20	54505	ENOL_T2	1	1	0	0.3	0.2	-0.1	-1.26	-1.26	1	1	0	600	600	0
11/21/2024 17:47	67503	WEWI_T2	1	1	0	5.9	6.6	0.7	-0.06	-0.03	0	0	0	0	0	0
11/21/2024 18:01	24702	FLND_T2	0	0	0	0	0	0	-0.15	0	1	1	0	1200	1200	0
11/21/2024 18:10	15203	SFAR_T2	0	0	0	0	0	0	-1.26	-1.29	0	0	0	0	0	0
11/21/2024 18:10	17002	RIRO_T2	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
11/21/2024 18:12	46004	BERW_T2	0	2	2	0	0.1	0.1	-0.47	-0.46	0	0	0	0	0	0
11/21/2024 18:14	15201	SFAR_T1	0	0	0	0	0	0	-0.14	-0.17	1	1	0	1200	1200	0
11/21/2024 18:14	15203	SFAR_T2	0	0	0	0	0	0	-1.26	-1.29	0	0	0	0	0	0
11/21/2024 18:16	10805	CHHI_T2	1	1	0	7.8	7.6	-0.2	-1.05	-1.05	1	1	0	600	600	0
11/21/2024 18:16	13401	ELLF_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/21/2024 18:16	15203	SFAR_T2	0	0	0	0	0	0	-1.26	-1.29	0	0	0	0	0	0
11/21/2024 18:17	45501	DERR_T2	2	0	-2	0.6	0	-0.6	0.43	0.45	2	2	0	1800	1800	0
11/21/2024 18:18	45501	DERR_T2	2	0	-2	0.6	0	-0.6	0.43	0.45	2	2	0	1800	1800	0
11/21/2024 18:19	43202	MVIL_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
11/21/2024 18:19	43201	MVIL_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
11/21/2024 18:20	14201	EALL_T1	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
11/21/2024 18:21	20201	JERM_T1	0	0	0	0	0	0	1.51	1.53	0	0	0	0	0	0
11/21/2024 18:22	46602	LACR_T1	0	0	0	0	0	0	-1.05	-1.03	0	0	0	0	0	0
11/21/2024 18:22	17802	GILB_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
11/21/2024 18:22	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 18:24	15202	SFAR_T1	0	0	0	0	0	0	-0.82	-0.82	1	1	0	1200	1200	0
11/21/2024 18:24	40702	FFLD_T1	66	104	38	0.19	0.3	0.11	0	0	0	0	0	0	0	0
11/21/2024 18:24	40101	HUNT_T2	193	203	10	0.51	0.37	-0.14	-0.62	-0.64	0	0	0	0	0	0
11/21/2024 18:24	45501	DERR_T2	2	0	-2	0.6	0	-0.6	0.9	1.14	4	4	0	3600	3600	0
11/21/2024 18:24	40701	FFLD_T1	49	56	7	0.47	0.52	0.05	0	0	0	0	0	0	0	0
11/21/2024 18:24	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 18:24	40703	FFLD_T1	4	4	0	0.43	0.6	0.17	0	0	0	0	0	0	0	0
11/21/2024 18:24	24702	FLND_T2	0	0	0	0	0	0	-0.33	-0.23	1	1	0	1200	1200	0
11/21/2024 18:25	40101	HUNT_T2	193	203	10	0.51	0.37	-0.14	-0.62	-0.64	0	0	0	0	0	0
11/21/2024 18:26	47401	PENS_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
11/21/2024 18:26	15203	SFAR_T2	0	0	0	0	0	0	-2.59	-2.61	0	0	0	0	0	0
11/21/2024 18:26	43304	WATS_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
11/21/2024 18:26	47402	PENS_T1	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
11/21/2024 18:26	24902	WHHA_T1	4	9	5	0.58	0.6	0.02	0	0	0	0	0	0	0	0
11/21/2024 18:26	24901	WHHA_T1	0	3	3	0	0	0	0.55	0.51	0	0	0	0	0	0
11/21/2024 18:27	40101	HUNT_T2	193	203	10	0.51	0.37	-0.14	-0.62	-0.64	0	0	0	0	0	0
11/21/2024 18:27	43302	WATS_T2	0	0	0	0	0	0	-0.52	-0.56	2	2	0	1800	1800	0
11/21/2024 18:28	64204	KINZ_T1	2	1	-1	0.65	0.8	0.15	0	0	0	0	0	0	0	0
11/21/2024 18:28	65603	QIVL_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
11/21/2024 18:28	12006	HATF_T1	0	0	0	0	0	0	0.79	0.83	0	0	0	0	0	0
11/21/2024 18:28	67503	WEWI_T2	1	1	0	6.6	6.3	-0.3	-0.04	-0.03	0	0	0	0	0	0
11/21/2024 18:28	15201	SFAR_T1	0	0	0	0	0	0	-0.17	-0.06	1	1	0	1200	1200	0
11/21/2024 18:28	42902	MIDD_T2	1	4	3	0.1	0.13	0.03	-0.5	-0.45	0	0	0	0	0	0
11/21/2024 18:28	42903	MIDD_T2	2	2	0	1.45	1.6	0.15	0	0	0	0	0	0	0	0
11/21/2024 18:28	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
11/21/2024 18:28	64201	KINZ_T1	5	2	-3	0.32	0.3	-0.02	-0.76	-0.77	3	3	0	1500	1500	0
11/21/2024 18:28	14705	TREX_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
11/21/2024 18:28	43301	WATS_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
11/21/2024 18:28	11407	FARM_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
11/21/2024 18:28	14704	TREX_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
11/21/2024 18:28	11405	FARM_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
11/21/2024 18:29	64302	LINC_T2	0	0	0	0	0	0	1.14	1.08	0	0	0	0	0	0
11/21/2024 18:29	42903	MIDD_T2	2	2	0	1.45	1.6	0.15	0	0	0	0	0	0	0	0
11/21/2024 18:29	42802	SELI_T1	0	0	0	0	0	0	-1.24	-1.27	1	1	0	900	900	0
11/21/2024 18:29	42902	MIDD_T2	1	4	3	0.1	0.13	0.03	-0.5	-0.45	0	0	0	0	0	0
11/21/2024 18:30	14801	TREI_T2	0	0	0	0	0	0	0.57	0.53	0	0	0	0	0	0
11/21/2024 18:30	43304	WATS_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
11/21/2024 18:30	45802	HEGI_T2	48	46	-2	2.1	0.93	-1.17	0	0	0	0	0	0	0	0
11/21/2024 18:31	63501	HEID_TBK1-2	2	1	-1	0.3	0.6	0.3	0.45	0.44	0	0	0	0	0	0
11/21/2024 18:31	43302	WATS_T2	0	0	0	0	0	0	-0.52	-0.56	2	2	0	1800	1800	0
11/21/2024 18:31	64903	MILL_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
11/21/2024 18:32	65702	RVIL_T2	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
11/21/2024 18:32	14801	TREI_T2	0	0	0	0	0	0	0.57	0.53	0	0	0	0	0	0
11/21/2024 18:32	63501	HEID_TBK1-2	2	1	-1	0.3	0.6	0.3	0.45	0.44	0	0	0	0	0	0
11/21/2024 18:32	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
11/21/2024 18:32	40102	HUNT_T2	99	231	132	0.4	0.46	0.06	-0.62	-0.64	0	0	0	0	0	0
11/21/2024 18:32	10801	CHHI_T1	0	1	1	0	0.6	0.6	-1.53	-1.52	2	2	0	1500	1500	0
11/21/2024 18:32	15202	SFAR_T1	0	0	0	0	0	0	-0.82	-0.82	1	1	0	1200	1200	0
11/21/2024 18:32	43304	WATS_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
11/21/2024 18:32	43302	WATS_T2	0	0	0	0	0	0	-0.52	-0.56	2	2	0	1800	1800	0
11/21/2024 18:33	67502	WEWI_T2	0	0	0	0	0	0	-1.36	-1.39	1	1	0	900	900	0
11/21/2024 18:33	67503	WEWI_T2	1	1	0	6.3	5.9	-0.4	0	0	0	0	0	0	0	0
11/21/2024 18:33	62106	ELAN_T1	1	1	0	0.1	0.1	0	0.05	0.07	0	0	0	0	0	0
11/21/2024 18:33	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/21/2024 18:33	60201	ATGL_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/21/2024 18:33	43302	WATS_T2	0	0	0	0	0	0	-0.52	-0.56	2	2	0	1800	1800	0
11/21/2024 18:34	62105	ELAN_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
11/21/2024 18:34	59202	THOM_T1	10	5	-5	0.18	0.14	-0.04	0	0	0	0	0	0	0	0
11/21/2024 18:34	66505	SMAN_T2	3	3	0	1.7	1.7	0	0	0	0	0	0	0	0	0
11/21/2024 18:34	66502	SMAN_T2	2	0	-2	0.1	0	-0.1	-0.22	-0.23	0	0	0	0	0	0
11/21/2024 18:34	40703	FFLD_T1	4	4	0	0.55	0.68	0.13	0	0	0	0	0	0	0	0
11/21/2024 18:34	40702	FFLD_T1	74	119	45	0.22	0.34	0.12	-0.72	-0.78	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/21/2024 18:34	66501	SMAN_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/21/2024 18:34	63501	HEID_TBK1-2	2	1	-1	0.3	0.6	0.3	0.45	0.44	0	0	0	0	0	0
11/21/2024 18:34	40701	FFLD_T1	48	63	15	0.44	0.51	0.07	0	0	0	0	0	0	0	0
11/21/2024 18:34	63802	HEMP_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
11/21/2024 18:34	59201	THOM_T1	10	8	-2	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
11/21/2024 18:34	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
11/21/2024 18:34	12202	FOGE_T2	0	1	1	0	0	0	0	0	1	1	0	600	600	0
11/21/2024 18:34	43304	WATS_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
11/21/2024 18:34	15204	SFAR_T2	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
11/21/2024 18:34	62106	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/21/2024 18:34	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/21/2024 18:35	67502	WEWI_T2	0	0	0	0	0	0	-1.36	-1.39	1	1	0	900	900	0
11/21/2024 18:35	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 18:35	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/21/2024 18:35	66505	SMAN_T2	3	3	0	1.7	1.7	0	0	0	0	0	0	0	0	0
11/21/2024 18:35	62106	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/21/2024 18:35	66502	SMAN_T2	2	0	-2	0.1	0	-0.1	-0.22	-0.23	0	0	0	0	0	0
11/21/2024 18:35	43304	WATS_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
11/21/2024 18:35	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.07	0	0	0	0	0	0
11/21/2024 18:35	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 18:35	42902	MIDD_T2	0	8	8	0	0.11	0.11	-0.5	-0.45	0	0	0	0	0	0
11/21/2024 18:35	67503	WEWI_T2	1	1	0	6.3	5.9	-0.4	0	0	0	0	0	0	0	0
11/21/2024 18:35	65603	QVIL_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
11/21/2024 18:35	42903	MIDD_T2	2	2	0	1.45	1.7	0.25	0	0	0	0	0	0	0	0
11/21/2024 18:35	66501	SMAN_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/21/2024 18:35	62104	ELAN_T1	0	0	0	0	0	0	1	0.97	1	1	0	1200	1200	0
11/21/2024 18:35	43801	SWIL_T1	24	31	7	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
11/21/2024 18:35	43802	SWIL_T1	0	0	0	0	0	0	-0.16	-0.18	1	1	0	600	600	0
11/21/2024 18:36	43304	WATS_T2	0	0	0	0	0	0	-0.43	-0.49	0	0	0	0	0	0
11/21/2024 18:36	64204	KINZ_T1	1	3	2	0.8	0.47	-0.33	0	0	0	0	0	0	0	0
11/21/2024 18:36	64201	KINZ_T1	2	5	3	0.3	0.32	0.02	-0.77	-0.71	3	3	0	1500	1500	0
11/21/2024 18:36	64302	LINC_T2	0	0	0	0	0	0	1.08	1.14	0	0	0	0	0	0
11/21/2024 18:36	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 18:36	64801	MONE_T2	0	1	1	0	0.1	0.1	0.3	0.33	0	0	0	0	0	0
11/21/2024 18:36	46803	HEPB_T2	4	8	4	0.15	0.2	0.05	0.46	0.49	0	0	0	0	0	0
11/21/2024 18:36	64802	MONE_T2	2	10	8	0.1	0.16	0.06	0	0	0	0	0	0	0	0
11/21/2024 18:36	42903	MIDD_T2	2	2	0	1.45	1.7	0.25	-0.32	-0.34	0	0	0	0	0	0
11/21/2024 18:36	42902	MIDD_T2	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
11/21/2024 18:36	47402	PENS_T1	2	1	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
11/21/2024 18:36	46801	HEPB_T2	16	21	5	0.24	0.28	0.04	0	0	0	0	0	0	0	0
11/21/2024 18:36	47401	PENS_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
11/21/2024 18:36	53501	EVIL_T2	2	2	0	0.2	0.55	0.35	-3.02	-3.03	4	4	0	2400	2400	0
11/21/2024 18:37	66502	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/21/2024 18:37	66505	SMAN_T2	3	3	0	1.7	1.7	0	-0.53	-0.42	1	1	0	900	900	0
11/21/2024 18:37	66102	COCA_T1	0	0	0	0	0	0	-1.04	-0.93	2	2	0	1200	1200	0
11/21/2024 18:37	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/21/2024 18:37	62104	ELAN_T1	0	0	0	0	0	0	1.93	1.98	2	2	0	2400	2400	0
11/21/2024 18:37	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
11/21/2024 18:37	65601	QVIL_T2	0	0	0	0	0	0	-1.1	-1.15	1	1	0	900	900	0
11/21/2024 18:37	59201	THOM_T1	10	8	-2	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
11/21/2024 18:37	66501	SMAN_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/21/2024 18:37	62102	ELAN_T1	0	0	0	0	0	0	0.75	0.66	0	0	0	0	0	0
11/21/2024 18:37	59202	THOM_T1	10	5	-5	0.18	0.14	-0.04	0	0	0	0	0	0	0	0
11/21/2024 18:37	62106	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/21/2024 18:38	66504	SMAN_T2	0	0	0	0	0	0	-0.8	-0.85	0	0	0	0	0	0
11/21/2024 18:38	62105	ELAN_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
11/21/2024 18:38	62106	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/21/2024 18:38	43304	WATS_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
11/21/2024 18:38	42902	MIDD_T2	0	8	8	0	0.11	0.11	-0.45	-0.34	0	0	0	0	0	0
11/21/2024 18:38	55508	HERS_T2	492	522	30	0.93	0.96	0.03	-2.64	-2.64	1	1	0	1200	1200	0
11/21/2024 18:38	13302	ORVI_T2	0	0	0	0	0	0	1.53	1.47	0	0	0	0	0	0
11/21/2024 18:38	42903	MIDD_T2	2	2	0	1.45	1.7	0.25	0	0	0	0	0	0	0	0
11/21/2024 18:38	67106	SPRI_T2	0	0	0	0	0	0	-0.99	-0.99	1	1	0	600	600	0
11/21/2024 18:38	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 18:38	61303	EARL_T1	0	0	0	0	0	0	0.23	0.34	0	0	0	0	0	0
11/21/2024 18:38	55002	NEWP_T1	4	5	1	0.75	0.66	-0.09	-0.23	-0.22	0	0	0	0	0	0
11/21/2024 18:38	63501	HEID_TBK1-2	2	1	-1	0.3	0.6	0.3	0.44	0.46	0	0	0	0	0	0
11/21/2024 18:38	44502	HAMI_T2	1	1	0	3.4	3.7	0.3	-0.88	-0.83	0	0	0	0	0	0
11/21/2024 18:38	66501	SMAN_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/21/2024 18:38	66505	SMAN_T2	3	3	0	1.7	1.7	0	-0.53	-0.42	1	1	0	900	900	0
11/21/2024 18:38	66502	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/21/2024 18:38	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.31	0	0	0	0	0	0
11/21/2024 18:38	15103	UPHA_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
11/21/2024 18:38	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/21/2024 18:38	67503	WEWI_T2	1	1	0	6.3	5.9	-0.4	-0.03	-0.01	0	0	0	0	0	0
11/21/2024 18:39	42902	MIDD_T2	0	8	8	0	0.11	0.11	-0.45	-0.34	0	0	0	0	0	0
11/21/2024 18:39	64201	KINZ_T1	2	5	3	0.3	0.32	0.02	0	0	0	0	0	0	0	0
11/21/2024 18:39	64204	KINZ_T1	1	3	2	0.8	0.47	-0.33	0	0	0	0	0	0	0	0
11/21/2024 18:39	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 18:39	42903	MIDD_T2	2	2	0	1.45	1.7	0.25	0	0	0	0	0	0	0	0
11/21/2024 18:39	53501	EVIL_T2	2	2	0	0.2	0.55	0.35	-1.51	-1.45	2	2	0	1200	1200	0
11/21/2024 18:39	45802	HEGI_T2	48	46	-2	2.1	0.93	-1.17	0	0	0	0	0	0	0	0
11/21/2024 18:39	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
11/21/2024 18:39	63802	HEMP_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
11/21/2024 18:39	40101	HUNT_T2	99	231	132	0.4	0.46	0.06	-0.64	-0.63	0	0	0	0	0	0
11/21/2024 18:39	65702	RVIL_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
11/21/2024 18:39	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
11/21/2024 18:39	64701	LITI_T1	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
11/21/2024 18:39	64202	KINZ_T1	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
11/21/2024 18:39	42802	SELI_T1	0	0	0	0	0	0	-1.27	-1.29	1	1	0	900	900	0
11/21/2024 18:40	11801	FRAN_T2	0	0	0	0	0	0	0.12	0.17	0	0	0	0	0	0
11/21/2024 18:40	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 18:40	66504	SMAN_T2	0	0	0	0	0	0	-0.8	-0.85	0	0	0	0	0	0
11/21/2024 18:40	66501	SMAN_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/21/2024 18:40	60902	DONG_T2	3	3	0	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
11/21/2024 18:40	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 18:40	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
11/21/2024 18:40	66505	SMAN_T2	3	3	0	1.7	1.7	0	0	0	0	0	0	0	0	0
11/21/2024 18:40	46506	LOHA_T1	3	3	0	3.23	3.47	0.24	0	0	0	0	0	0	0	0
11/21/2024 18:40	45702	LIND_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/21/2024 18:40	45701	LIND_T2	0	0	0	0	0	0	-1.64	-1.66	0	0	0	0	0	0
11/21/2024 18:40	46501	LOHA_T1	0	0	0	0	0	0	0.02	0.05	1	1	0	1200	1200	0
11/21/2024 18:40	66502	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/21/2024 18:40	60901	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 18:41	46801	HEPB_T2	16	21	5	0.24	0.28	0.04	0	0	0	0	0	0	0	0
11/21/2024 18:41	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 18:41	43801	SWIL_T1	24	31	7	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
11/21/2024 18:41	46803	HEPB_T2	4	8	4	0.15	0.2	0.05	0.49	0.5	0	0	0	0	0	0
11/21/2024 18:41	60501	NMAN_T2	30	32	2	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
11/21/2024 18:41	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/21/2024 18:41	60502	NMAN_T2	0	0	0	0	0	0	-0.09	-0.24	0	0	0	0	0	0
11/21/2024 18:41	66903	SHIL_T2	0	0	0	0	0	0	-1.05	-1.04	0	0	0	0	0	0
11/21/2024 18:41	65502	MOID_T2	258	281	23	0.19	0.21	0.02	0	0	0	0	0	0	0	0
11/21/2024 18:41	52404	GRPA_T2	0	0	0	0	0	0	0.42	0.35	0	0	0	0	0	0
11/21/2024 18:41	43304	WATS_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
11/21/2024 18:41	64802	MONE_T2	2	10	8	0.1	0.16	0.06	-0.06	-0.04	0	0	0	0	0	0
11/21/2024 18:41	67203	TEHI_T1	0	0	0	0	0	0	2.24	2.34	2	2	0	1500	1500	0
11/21/2024 18:41	52402	GRPA_T2	2	3	1	0.15	0.47	0.32	0	0	0	0	0	0	0	0
11/21/2024 18:41	65503	MOID_T2	62	72	10	0.11	0.12	0.01	-0.33	-0.3	0	0	0	0	0	0
11/21/2024 18:41	43802	SWIL_T1	0	0	0	0	0	0	-0.18	-0.15	1	1	0	600	600	0
11/21/2024 18:41	56501	ROCK_T2	13	7	-6	0.17	0.27	0.1	-1.12	-1.08	0	0	0	0	0	0
11/21/2024 18:42	62106	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/21/2024 18:42	63802	HEMP_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
11/21/2024 18:42	52502	PROG_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
11/21/2024 18:42	66501	SMAN_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/21/2024 18:42	66502	SMAN_T2	2	0	-2	0.1	0	-0.1	-0.47	-0.42	0	0	0	0	0	0
11/21/2024 18:42	66505	SMAN_T2	3	3	0	1.7	1.7	0	0	0	0	0	0	0	0	0
11/21/2024 18:42	47502	NECO_T1	1	29	28	0.3	0.36	0.06	1.35	0.98	0	0	0	0	0	0
11/21/2024 18:42	62105	ELAN_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
11/21/2024 18:42	62102	ELAN_T1	0	0	0	0	0	0	0.75	0.66	0	0	0	0	0	0
11/21/2024 18:42	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 18:42	66504	SMAN_T2	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
11/21/2024 18:42	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/21/2024 18:42	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
11/21/2024 18:42	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
11/21/2024 18:43	56501	ROCK_T2	13	7	-6	0.17	0.27	0.1	-1.12	-1.08	0	0	0	0	0	0
11/21/2024 18:43	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 18:43	66505	SMAN_T2	3	3	0	1.7	1.7	0	-0.53	-0.42	1	1	0	900	900	0
11/21/2024 18:43	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
11/21/2024 18:43	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 18:43	42902	MIDD_T2	0	8	8	0	0.11	0.11	-0.45	-0.34	0	0	0	0	0	0
11/21/2024 18:43	42903	MIDD_T2	2	2	0	1.45	1.7	0.25	0	0	0	0	0	0	0	0
11/21/2024 18:43	45802	HEGI_T2	48	46	-2	2.1	0.93	-1.17	0.74	0.9	0	0	0	0	0	0
11/21/2024 18:43	66501	SMAN_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/21/2024 18:43	53901	HALI_T2	15	14	-1	0.23	0.24	0.01	0	0	0	0	0	0	0	0
11/21/2024 18:43	53903	HALI_T2	2	2	0	1.5	1.55	0.05	0	0	0	0	0	0	0	0
11/21/2024 18:43	66502	SMAN_T2	2	0	-2	0.1	0	-0.1	-0.23	-0.21	0	0	0	0	0	0
11/21/2024 18:44	63501	HEID_TBK1-2	2	1	-1	0.3	0.6	0.3	0.44	0.46	0	0	0	0	0	0
11/21/2024 18:44	66501	SMAN_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/21/2024 18:44	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
11/21/2024 18:44	45702	LIND_T2	1	1	0	0.4	0.5	0.1	-0.32	-0.41	0	0	0	0	0	0
11/21/2024 18:44	66505	SMAN_T2	3	3	0	1.7	1.7	0	0	0	0	0	0	0	0	0
11/21/2024 18:44	55002	NEWP_T1	4	5	1	0.75	0.66	-0.09	-0.23	-0.22	0	0	0	0	0	0
11/21/2024 18:44	54505	ENOL_T2	1	1	0	0.5	0.5	0	-2.56	-2.48	2	2	0	1200	1200	0
11/21/2024 18:44	59201	THOM_T1	10	8	-2	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
11/21/2024 18:44	66503	SMAN_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
11/21/2024 18:44	58202	NEWV_T1	0	0	0	0	0	0	0.14	0.19	0	0	0	0	0	0
11/21/2024 18:44	54502	ENOL_T2	0	0	0	0	0	0	-2	-2.01	1	1	0	600	600	0
11/21/2024 18:44	59202	THOM_T1	10	5	-5	0.18	0.14	-0.04	0	0	0	0	0	0	0	0
11/21/2024 18:44	54506	ENOL_T2	0	0	0	0	0	0	0.6	0.55	1	1	0	600	600	0
11/21/2024 18:44	66502	SMAN_T2	2	0	-2	0.1	0	-0.1	-0.23	-0.21	0	0	0	0	0	0
11/21/2024 18:44	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 18:45	54502	ENOL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/21/2024 18:45	64201	KINZ_T1	1	5	4	0.3	0.32	0.02	0	0	0	0	0	0	0	0
11/21/2024 18:45	54201	PENN_T1	11	30	19	0.8	0.39	-0.41	0	0	0	0	0	0	0	0
11/21/2024 18:45	62106	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/21/2024 18:45	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
11/21/2024 18:45	46506	LOHA_T1	0	3	3	0	3.3	3.3	0	0	0	0	0	0	0	0
11/21/2024 18:45	64204	KINZ_T1	1	3	2	0.8	0.47	-0.33	0	0	0	0	0	0	0	0
11/21/2024 18:45	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 18:45	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	-2.56	-2.48	2	2	0	1200	1200	0
11/21/2024 18:45	66505	SMAN_T2	3	3	0	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
11/21/2024 18:45	62105	ELAN_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
11/21/2024 18:45	45702	LIND_T2	0	1	1	0	0.5	0.5	-0.32	-0.41	0	0	0	0	0	0
11/21/2024 18:45	47401	PENS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 18:45	64202	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/21/2024 18:45	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 18:45	66502	SMAN_T2	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
11/21/2024 18:45	57205	ROSS_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
11/21/2024 18:45	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/21/2024 18:45	54205	PENN_T1	0	38	38	0	0.12	0.12	0	0	0	0	0	0	0	0
11/21/2024 18:45	53501	EVIL_T2	2	11	9	0.35	0.55	0.2	-3.03	-2.91	4	4	0	2400	2400	0
11/21/2024 18:45	66501	SMAN_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/21/2024 18:45	56501	ROCK_T2	7	5	-2	0.26	0.22	-0.04	-1.12	-1.08	0	0	0	0	0	0
11/21/2024 18:45	54203	PENN_T1	19	49	30	1.24	0.63	-0.61	-0.05	-0.07	0	0	0	0	0	0
11/21/2024 18:46	66501	SMAN_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/21/2024 18:46	58701	ROSE_T2	0	0	0	0	0	0	-0.25	-0.27	1	1	0	600	600	0
11/21/2024 18:46	54502	ENOL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/21/2024 18:46	58706	ROSE_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/21/2024 18:46	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	-1.28	-1.24	1	1	0	600	600	0
11/21/2024 18:46	66505	SMAN_T2	3	3	0	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
11/21/2024 18:46	58705	ROSE_T2	5	5	0	1.4	1.7	0.3	0	0	0	0	0	0	0	0
11/21/2024 18:46	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 18:47	43801	SWIL_T1	28	28	0	0.42	0.45	0.03	0	0	0	0	0	0	0	0
11/21/2024 18:47	54203	PENN_T1	19	49	30	1.24	0.63	-0.61	-0.05	-0.07	0	0	0	0	0	0
11/21/2024 18:47	57403	SPAN_T1	0	1	1	0	0	0	0.14	0.2	0	0	0	0	0	0
11/21/2024 18:47	40101	HUNT_T2	197	226	29	0.45	0.34	-0.11	-0.64	-0.63	0	0	0	0	0	0
11/21/2024 18:47	54201	PENN_T1	11	30	19	0.8	0.39	-0.41	-0.01	0.01	0	0	0	0	0	0
11/21/2024 18:47	54205	PENN_T1	0	38	38	0	0.12	0.12	0	0	0	0	0	0	0	0
11/21/2024 18:47	58001	WCAR_T1	4	4	0	0.7	1.03	0.33	0	0	0	0	0	0	0	0
11/21/2024 18:47	43802	SWIL_T1	0	0	0	0	0	0	-0.18	-0.15	1	1	0	600	600	0
11/21/2024 18:47	60501	NMAN_T2	25	31	6	0.21	0.22	0.01	0	0	0	0	0	0	0	0
11/21/2024 18:47	60502	NMAN_T2	0	0	0	0	0	0	-0.18	-0.49	0	0	0	0	0	0
11/21/2024 18:47	57401	SPAN_T1	2	2	0	0.15	0.4	0.25	0	0	0	0	0	0	0	0
11/21/2024 18:47	58003	WCAR_T1	1	1	0	1.2	1.2	0	0.56	0.57	0	0	0	0	0	0
11/21/2024 18:48	54601	SUMM_T2	8	11	3	0.63	0.62	-0.01	-4.2	-4.2	2	2	0	2100	2100	0
11/21/2024 18:48	54502	ENOL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/21/2024 18:48	55508	HERS_T2	516	467	-49	0.94	0.98	0.04	-2.64	-2.64	1	1	0	1200	1200	0
11/21/2024 18:48	56501	ROCK_T2	7	5	-2	0.26	0.22	-0.04	-2.24	-2.16	0	0	0	0	0	0
11/21/2024 18:48	54206	PENN_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
11/21/2024 18:48	54602	SUMM_T2	13	16	3	0.41	0.57	0.16	0	0	0	0	0	0	0	0
11/21/2024 18:48	54501	ENOL_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
11/21/2024 18:48	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/21/2024 18:49	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	-1.28	-1.24	1	1	0	600	600	0
11/21/2024 18:49	54501	ENOL_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
11/21/2024 18:49	55001	NEWP_T1	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
11/21/2024 18:49	55002	NEWP_T1	5	5	0	0.66	0.6	-0.06	0	0	0	0	0	0	0	0
11/21/2024 18:49	54502	ENOL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/21/2024 18:49	55508	HERS_T2	516	467	-49	0.94	0.98	0.04	0	0	0	0	0	0	0	0
11/21/2024 18:49	63501	HEID_TBK1-2	1	1	0	0.6	0.1	-0.5	0.44	0.46	0	0	0	0	0	0
11/21/2024 18:49	42802	SELI_T1	0	0	0	0	0	0	-1.27	-1.29	1	1	0	900	900	0
11/21/2024 18:49	57203	ROSS_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
11/21/2024 18:50	54502	ENOL_T2	0	2	2	0	0.2	0.2	-2	-2.01	1	1	0	600	600	0
11/21/2024 18:50	50502	MECH_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
11/21/2024 18:50	57201	ROSS_T1	0	0	0	0	0	0	-0.61	-0.58	0	0	0	0	0	0
11/21/2024 18:50	50506	MECH_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
11/21/2024 18:50	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 18:50	50503	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 18:50	53501	EVIL_T2	2	11	9	0.35	0.55	0.2	-1.51	-1.45	2	2	0	1200	1200	0
11/21/2024 18:50	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	-2.56	-2.48	2	2	0	1200	1200	0
11/21/2024 18:50	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
11/21/2024 18:50	65603	QVIL_T2	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
11/21/2024 18:50	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-1.04	1	1	0	600	600	0
11/21/2024 18:50	57203	ROSS_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
11/21/2024 18:50	50501	MECH_T1	4	4	0	0.93	1.2	0.27	-0.13	-0.43	0	0	0	0	0	0
11/21/2024 18:50	54501	ENOL_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
11/21/2024 18:50	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
11/21/2024 18:51	57403	SPAN_T1	0	1	1	0	0	0	0.07	0.1	0	0	0	0	0	0
11/21/2024 18:51	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 18:51	50506	MECH_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
11/21/2024 18:51	50501	MECH_T1	4	4	0	0.93	1.2	0.27	0	0	0	0	0	0	0	0
11/21/2024 18:51	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	-1.28	-1.24	1	1	0	600	600	0
11/21/2024 18:51	57401	SPAN_T1	2	2	0	0.15	0.4	0.25	0	0	0	0	0	0	0	0
11/21/2024 18:51	57201	ROSS_T1	0	0	0	0	0	0	-0.61	-0.58	0	0	0	0	0	0
11/21/2024 18:51	56501	ROCK_T2	7	5	-2	0.26	0.22	-0.04	-1.12	-1.08	0	0	0	0	0	0
11/21/2024 18:51	50502	MECH_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
11/21/2024 18:51	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
11/21/2024 18:51	66504	SMAN_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
11/21/2024 18:51	66501	SMAN_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/21/2024 18:51	50503	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 18:51	59101	WALK_T2	0	0	0	0	0	0	-0.63	-0.48	0	0	0	0	0	0
11/21/2024 18:51	54502	ENOL_T2	0	2	2	0	0.2	0.2	-2	-2.01	1	1	0	600	600	0
11/21/2024 18:51	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-1.04	1	1	0	600	600	0
11/21/2024 18:51	66505	SMAN_T2	3	3	0	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
11/21/2024 18:52	54502	ENOL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/21/2024 18:52	57403	SPAN_T1	0	1	1	0	0	0	0.1	0.12	0	0	0	0	0	0
11/21/2024 18:52	54503	ENOL_T2	0	0	0	0	0	0	-0.39	-0.38	1	1	0	600	600	0
11/21/2024 18:52	58001	WCAR_T1	4	4	0	0.7	1.03	0.33	0	0	0	0	0	0	0	0
11/21/2024 18:52	57401	SPAN_T1	2	2	0	0.15	0.4	0.25	0	0	0	0	0	0	0	0
11/21/2024 18:52	58003	WCAR_T1	1	1	0	1.2	1.2	0	0.57	0.56	0	0	0	0	0	0
11/21/2024 18:52	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
11/21/2024 18:52	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/21/2024 18:53	58401	MORO_T1	0	0	0	0	0	0	-1.06	-1.1	1	1	0	600	600	0
11/21/2024 18:53	50501	MECH_T1	4	4	0	0.93	1.2	0.27	0	0	0	0	0	0	0	0
11/21/2024 18:53	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
11/21/2024 18:53	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 18:53	58003	WCAR_T1	1	1	0	1.2	1.2	0	1.14	1.12	0	0	0	0	0	0
11/21/2024 18:53	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/21/2024 18:53	62106	ELAN_T1	0	1	1	0	0.2	0.2	0.05	0.06	0	0	0	0	0	0
11/21/2024 18:53	50506	MECH_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
11/21/2024 18:53	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 18:53	52402	GRPA_T2	3	3	0	0.23	0.6	0.37	-0.9	-0.93	0	0	0	0	0	0
11/21/2024 18:53	50503	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 18:53	50502	MECH_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
11/21/2024 18:53	58001	WCAR_T1	4	4	0	0.7	1.03	0.33	0	0	0	0	0	0	0	0
11/21/2024 18:53	58402	MORO_T1	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
11/21/2024 18:54	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
11/21/2024 18:54	66504	SMAN_T2	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
11/21/2024 18:54	65501	MOJO_T1	0	0	0	0	0	0	-0.54	-0.57	1	1	0	900	900	0
11/21/2024 18:54	66501	SMAN_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/21/2024 18:54	66505	SMAN_T2	3	3	0	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
11/21/2024 18:55	66501	SMAN_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/21/2024 18:55	66505	SMAN_T2	3	3	0	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
11/21/2024 18:55	64904	MILL_T1	0	17	17	0	0.13	0.13	-0.49	-0.49	0	0	0	0	0	0
11/21/2024 18:55	57203	ROSS_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
11/21/2024 18:55	54502	ENOL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/21/2024 18:55	64901	MILL_T1	0	53	53	0	0.25	0.25	0	0	0	0	0	0	0	0
11/21/2024 18:55	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	-1.24	-1.24	1	1	0	600	600	0
11/21/2024 18:55	54504	ENOL_T2	0	0	0	0	0	0	-1.04	-1.04	1	1	0	600	600	0
11/21/2024 18:55	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 18:56	60501	NMAN_T2	25	31	6	0.21	0.22	0.01	0	0	0	0	0	0	0	0
11/21/2024 18:56	52402	GRPA_T2	3	3	0	0.23	0.6	0.37	0	0	0	0	0	0	0	0
11/21/2024 18:56	52403	GRPA_T2	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
11/21/2024 18:56	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2024 18:57	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
11/21/2024 18:57	57403	SPAN_T1	0	1	1	0	0	0	0.1	0.12	0	0	0	0	0	0
11/21/2024 18:57	57401	SPAN_T1	2	2	0	0.15	0.4	0.25	0	0	0	0	0	0	0	0
11/21/2024 18:57	57205	ROSS_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
11/21/2024 18:58	58401	MORO_T1	0	0	0	0	0	0	-1.06	-1.1	1	1	0	600	600	0
11/21/2024 18:58	67106	SPRI_T2	0	0	0	0	0	0	-0.99	-0.98	1	1	0	600	600	0
11/21/2024 18:58	58402	MORO_T1	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
11/21/2024 18:59	66903	SHIL_T2	0	0	0	0	0	0	-1.04	-1.05	0	0	0	0	0	0
11/21/2024 19:02	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/21/2024 19:06	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
11/21/2024 19:06	63803	HEMP_T1	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
11/21/2024 19:13	22901	HARW_T1	2	2	0	0.85	0.55	-0.3	0	0	0	0	0	0	0	0
11/21/2024 19:13	22903	HARW_T1	21	23	2	0.88	0.57	-0.31	0	0	0	0	0	0	0	0
11/21/2024 19:13	22905	HARW_T1	5	4	-1	0.4	0.5	0.1	-0.46	-0.38	0	0	0	0	0	0
11/21/2024 19:14	65502	MOJO_T2	267	306	39	0.2	0.35	0.15	0	0	0	0	0	0	0	0
11/21/2024 19:14	65503	MOJO_T2	59	164	105	0.11	0.17	0.06	0	0	0	0	0	0	0	0
11/21/2024 19:15	40703	FFLD_T1	4	4	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/21/2024 19:15	62106	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/21/2024 19:15	40702	FFLD_T1	105	128	23	0.3	0.37	0.07	0	0	0	0	0	0	0	0
11/21/2024 19:15	62103	ELAN_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/21/2024 19:15	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/21/2024 19:15	40701	FFLD_T1	57	70	13	0.46	0.56	0.1	0	0	0	0	0	0	0	0
11/21/2024 19:15	62105	ELAN_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
11/21/2024 19:25	44301	BEAV_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
11/21/2024 19:44	61303	EARL_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
11/21/2024 19:53	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
11/21/2024 20:06	67402	WAKE_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
11/21/2024 20:24	63804	HEMP_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
11/21/2024 20:24	63802	HEMP_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
11/21/2024 21:35	54502	ENOL_T2	1	1	0	0.6	0.8	0.2	-2.03	-2.03	1	1	0	600	600	0
11/21/2024 21:35	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/21/2024 21:35	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/22/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.42	0.5	0	0	0	0	0	0
11/22/2024 9:00	67503	WEWI_T2	1	1	0	7.6	7.8	0.2	0.13	0.11	0	0	0	0	0	0
11/22/2024 9:17	46501	LOHA_T1	0	0	0	0	0	0	-0.02	-0.08	1	1	0	1200	1200	0
11/22/2024 9:17	65302	NBRI_T2	0	0	0	0	0	0	-1.09	-1.15	1	1	0	600	600	0
11/22/2024 9:17	46506	LOHA_T1	3	4	1	3.17	2.48	-0.69	0	0	0	0	0	0	0	0
11/22/2024 9:19	64101	REFR_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
11/22/2024 9:21	60404	DILL_T2	1	0	-1	5.8	0	-5.8	0.03	0.15	1	1	0	1200	1200	0
11/22/2024 9:32	12006	HATF_T1	2	2	0	0.25	0.8	0.55	0.35	0.3	1	1	0	1200	1200	0
11/22/2024 9:33	57306	MOAL_T2	0	0	0	0	0	0	-9.12	-9.14	3	3	0	3600	3600	0
11/22/2024 9:33	57303	MOAL_T2	1	1	0	7.7	7.8	0.1	0	0	0	0	0	0	0	0
11/22/2024 10:06	14204	FALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 10:06	15203	SFAR_T2	0	0	0	0	0	0	-1.29	-1.26	0	0	0	0	0	0
11/22/2024 10:08	16101	BING_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
11/22/2024 10:08	15203	SFAR_T2	0	0	0	0	0	0	-1.29	-1.26	0	0	0	0	0	0
11/22/2024 10:10	15203	SFAR_T2	0	0	0	0	0	0	-1.29	-1.26	0	0	0	0	0	0
11/22/2024 10:13	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/22/2024 10:13	62106	ELAN_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/22/2024 10:18	45701	LIND_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
11/22/2024 10:20	15203	SFAR_T2	0	0	0	0	0	0	-1.29	-1.26	0	0	0	0	0	0
11/22/2024 10:20	15201	SFAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 10:22	15203	SFAR_T2	0	0	0	0	0	0	-1.26	-1.28	0	0	0	0	0	0
11/22/2024 10:22	57401	SPAN_T1	1	2	1	0.1	0.15	0.05	-0.99	-1	1	1	0	600	600	0
11/22/2024 10:24	57401	SPAN_T1	1	2	1	0.1	0.15	0.05	-0.99	-1	1	1	0	600	600	0
11/22/2024 10:27	62106	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/22/2024 10:27	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/22/2024 10:27	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/22/2024 10:28	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/22/2024 10:28	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/22/2024 10:28	62106	ELAN_T1	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
11/22/2024 10:35	57401	SPAN_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/22/2024 10:35	57403	SPAN_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
11/22/2024 10:54	65205	PRIN_T1	1	2	1	2.1	2.2	0.1	0	0	0	0	0	0	0	0
11/22/2024 10:54	65202	PRIN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/22/2024 10:54	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
11/22/2024 10:55	65206	PRIN_T4	7	5	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
11/22/2024 10:55	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 10:55	65207	PRIN_T4	2	2	0	1.65	0.7	-0.95	0	0	0	0	0	0	0	0
11/22/2024 11:14	58001	WCAR_T1	4	4	0	0.78	0.93	0.15	0	0	0	0	0	0	0	0
11/22/2024 11:14	58003	WCAR_T1	1	1	0	0.8	0.9	0.1	0.72	0.74	0	0	0	0	0	0
11/22/2024 11:15	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
11/22/2024 11:15	46506	LOHA_T1	0	4	4	0	2.93	2.93	0	0	0	0	0	0	0	0
11/22/2024 11:15	64701	LITI_T1	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
11/22/2024 11:17	46506	LOHA_T1	4	4	0	2.4	3.03	0.63	0	0	0	0	0	0	0	0
11/22/2024 11:17	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
11/22/2024 11:19	52502	PROG_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
11/22/2024 11:19	67002	STHI_T2	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
11/22/2024 11:19	67001	STHI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/22/2024 11:25	45502	DERR_T2	1	4	3	0.8	0.4	-0.4	0.35	0.3	0	0	0	0	0	0
11/22/2024 11:25	45501	DERR_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 11:31	43304	WATS_T2	0	1	1	0	0	0	-0.34	-0.36	0	0	0	0	0	0
11/22/2024 11:34	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 11:35	66505	SMAN_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
11/22/2024 11:35	66503	SMAN_T2	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
11/22/2024 11:42	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/22/2024 11:45	54505	ENOL_T2	1	1	0	0.5	0.4	-0.1	-1.17	-1.14	1	1	0	600	600	0
11/22/2024 11:45	54502	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/22/2024 11:51	60502	NMAN_T2	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
11/22/2024 11:52	58202	NEWV_T1	0	0	0	0	0	0	-0.01	-0.06	0	0	0	0	0	0
11/22/2024 11:54	16302	ALPA_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
11/22/2024 11:57	45502	DERR_T2	3	3	0	0.47	0	-0.47	0	0	0	0	0	0	0	0
11/22/2024 11:57	45501	DERR_T2	4	0	-4	0.33	0	-0.33	0.58	0.56	2	2	0	1800	1800	0
11/22/2024 12:07	66505	SMAN_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
11/22/2024 12:07	66502	SMAN_T2	0	0	0	0	0	0	0.07	0.22	0	0	0	0	0	0
11/22/2024 12:08	66505	SMAN_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
11/22/2024 12:08	66504	SMAN_T2	0	0	0	0	0	0	-0.29	-0.33	0	0	0	0	0	0
11/22/2024 12:13	44502	HAMI_T2	1	1	0	2.1	2.3	0.2	-0.77	-0.79	0	0	0	0	0	0
11/22/2024 12:13	47203	FAXO_T2	1	1	0	0.2	0.4	0.2	-1.7	-1.71	1	1	0	1200	1200	0
11/22/2024 12:22	63804	HEMP_T1	2	1	-1	3.8	6.5	2.7	0.83	0.82	0	0	0	0	0	0
11/22/2024 12:22	15203	SFAR_T2	0	0	0	0	0	0	-1.25	-1.24	0	0	0	0	0	0
11/22/2024 12:24	15203	SFAR_T2	0	0	0	0	0	0	-1.25	-1.24	0	0	0	0	0	0
11/22/2024 12:34	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 12:34	65503	MOJO_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/22/2024 12:38	67201	TEHI_T1	0	0	0	0	0	0	0.06	0.72	1	1	0	900	900	0
11/22/2024 12:41	45502	DERR_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/22/2024 12:41	45501	DERR_T2	0	0	0	0	0	0	0.55	0.52	2	2	0	1800	1800	0
11/22/2024 12:42	10705	CATA_T2	0	0	0	0	0	0	-0.81	-0.82	1	1	0	900	900	0
11/22/2024 12:44	10705	CATA_T2	0	0	0	0	0	0	-0.81	-0.82	1	1	0	900	900	0
11/22/2024 13:04	64204	KINZ_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
11/22/2024 13:04	64202	KINZ_T1	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
11/22/2024 13:09	60301	TWVA_T2	0	0	0	0	0	0	-3.16	-3.21	2	2	0	1800	1800	0
11/22/2024 13:11	54602	SUMM_T2	12	12	0	0.24	0.35	0.11	0	0	0	0	0	0	0	0
11/22/2024 13:11	54601	SUMM_T2	8	10	2	0.43	0.35	-0.08	-4.02	-4.06	2	2	0	2100	2100	0
11/22/2024 13:16	46602	LACR_T1	0	0	0	0	0	0	-1.09	-1.11	0	0	0	0	0	0
11/22/2024 13:21	65801	RTWN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 13:21	65804	RTWN_T1	0	0	0	0	0	0	0.32	0.36	2	2	0	1200	1200	0
11/22/2024 13:34	42902	MIDD_T2	0	0	0	0	0	0	-0.91	-0.91	1	1	0	600	600	0
11/22/2024 13:35	42902	MIDD_T2	0	0	0	0	0	0	-0.91	-0.91	1	1	0	600	600	0
11/22/2024 13:36	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 13:38	65804	RTWN_T1	0	0	0	0	0	0	0.18	0.23	1	1	0	600	600	0
11/22/2024 13:38	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/22/2024 13:38	54506	ENOL_T2	0	0	0	0	0	0	0.38	0.34	1	1	0	600	600	0
11/22/2024 13:38	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/22/2024 13:47	63801	HEMP_T1	0	0	0	0	0	0	0.38	0.29	0	0	0	0	0	0
11/22/2024 13:47	63804	HEMP_T1	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
11/22/2024 13:50	20401	ASHF_T2	0	0	0	0	0	0	-0.28	-0.22	0	0	0	0	0	0
11/22/2024 14:10	61103	BERK_T5	0	0	0	0	0	0	0.08	0.03	0	0	0	0	0	0
11/22/2024 14:16	61103	BERK_T5	0	0	0	0	0	0	0.08	0.03	0	0	0	0	0	0
11/22/2024 14:18	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 14:18	10109	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 14:18	10101	ALLE_T3	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
11/22/2024 14:29	41205	KENM_T2	0	0	0	0	0	0	-0.75	-0.74	1	1	0	600	600	0
11/22/2024 14:29	41202	KENM_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/22/2024 14:36	43304	WATS_T2	0	0	0	0	0	0	-0.42	-0.2	0	0	0	0	0	0
11/22/2024 14:51	59402	RFLD_T2	0	1	1	0	0	0	-0.14	-0.17	1	1	0	450	450	0
11/22/2024 14:52	59402	RFLD_T2	0	1	1	0	0	0	-0.17	-0.15	1	1	0	450	450	0
11/22/2024 15:08	40301	TAMA_T3	1	1	0	0	0	0	1.95	1.85	2	2	0	1800	1800	0
11/22/2024 15:08	40302	TAMA_T3	5	6	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
11/22/2024 17:15	54505	ENOL_T2	0	1	1	0	0.4	0.4	-1.17	-1.15	1	1	0	600	600	0
11/22/2024 18:02	12006	HATF_T1	0	2	2	0	0.1	0.1	0.65	0.72	0	0	0	0	0	0
11/22/2024 18:08	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
11/22/2024 18:08	64202	KINZ_T1	2	2	0	0.25	0.35	0.1	0.5	0.57	0	0	0	0	0	0
11/22/2024 18:08	64201	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/22/2024 18:10	44503	HAMI_T2	0	11	11	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 18:10	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	-0.87	-0.81	0	0	0	0	0	0
11/22/2024 18:14	16101	BING_T2	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
11/22/2024 18:16	16302	ALPA_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
11/22/2024 18:17	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 18:17	65207	PRIN_T4	4	3	-1	1.43	1.47	0.04	0	0	0	0	0	0	0	0
11/22/2024 18:18	20401	ASHF_T2	2	2	0	0.5	0.45	-0.05	-0.2	-0.21	0	0	0	0	0	0
11/22/2024 18:18	20402	ASHF_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/22/2024 18:18	20403	ASHF_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
11/22/2024 18:20	47203	FAXO_T2	1	1	0	0.2	1	0.8	-1.73	-0.3	1	0	-1	1200	0	-1200
11/22/2024 18:20	10109	ALLE_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 18:20	10105	ALLE_T3	7	6	-1	1.06	1.9	0.84	0	0	0	0	0	0	0	0
11/22/2024 18:20	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 18:20	15203	SFAR_T2	0	0	0	0	0	0	-1.24	-1.25	0	0	0	0	0	0
11/22/2024 18:20	46602	LACR_T1	0	0	0	0	0	0	-1.14	-1.19	0	0	0	0	0	0
11/22/2024 18:20	10101	ALLE_T3	1	9	8	5.8	2.07	-3.73	0	0	0	0	0	0	0	0
11/22/2024 18:20	64701	LITI_T1	0	0	0	0	0	0	0.22	0.18	0	0	0	0	0	0
11/22/2024 18:21	41202	KENM_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/22/2024 18:21	62101	ELAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/22/2024 18:21	62106	ELAN_T1	7	10	3	0.14	0.15	0.01	-0.03	-0.04	0	0	0	0	0	0
11/22/2024 18:21	62105	ELAN_T1	4	9	5	0.1	0.1	0	0	0	0	0	0	0	0	0
11/22/2024 18:21	41205	KENM_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
11/22/2024 18:21	62103	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/22/2024 18:22	15203	SFAR_T2	0	0	0	0	0	0	-1.25	-1.25	0	0	0	0	0	0
11/22/2024 18:22	61103	BERK_T5	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
11/22/2024 18:22	15201	SFAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 18:22	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/22/2024 18:23	57403	SPAN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/22/2024 18:23	57401	SPAN_T1	2	2	0	0.85	1.1	0.25	-0.64	-0.73	1	1	0	600	600	0
11/22/2024 18:24	10702	CATA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/22/2024 18:24	10705	CATA_T2	0	0	0	0	0	0	-0.92	-0.9	1	1	0	900	900	0
11/22/2024 18:24	60301	TWVA_T2	0	0	0	0	0	0	-1.36	-1.32	1	1	0	1200	1200	0
11/22/2024 18:24	15203	SFAR_T2	0	0	0	0	0	0	-1.25	-1.25	0	0	0	0	0	0
11/22/2024 18:25	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 18:25	65202	PRIN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/22/2024 18:25	65205	PRIN_T1	1	3	2	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
11/22/2024 18:26	62105	ELAN_T1	4	9	5	0.1	0.1	0	0	0	0	0	0	0	0	0
11/22/2024 18:26	45702	LIND_T2	9	1	-8	0.34	1	0.66	0	0	0	0	0	0	0	0
11/22/2024 18:26	45701	LIND_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
11/22/2024 18:26	62103	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/22/2024 18:26	62101	ELAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/22/2024 18:26	65302	NBRI_T2	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
11/22/2024 18:26	62106	ELAN_T1	7	10	3	0.14	0.15	0.01	-0.03	-0.04	0	0	0	0	0	0
11/22/2024 18:28	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/22/2024 18:28	66505	SMAN_T2	3	3	0	1.27	1.47	0.2	0	0	0	0	0	0	0	0
11/22/2024 18:28	45501	DERR_T2	2	0	-2	0.5	0	-0.5	-0.46	-0.47	2	2	0	1800	1800	0
11/22/2024 18:28	66504	SMAN_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
11/22/2024 18:28	15203	SFAR_T2	0	0	0	0	0	0	-1.25	-1.25	0	0	0	0	0	0
11/22/2024 18:29	45501	DERR_T2	2	0	-2	0.5	0	-0.5	-0.46	-0.47	2	2	0	1800	1800	0
11/22/2024 18:29	52502	PROG_T2	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
11/22/2024 18:30	66502	SMAN_T2	0	0	0	0	0	0	-0.02	-0.16	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/22/2024 18:30	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 18:30	46506	LOHA_T1	0	3	3	0	3.73	3.73	0	0	0	0	0	0	0	0
11/22/2024 18:30	58003	WCAR_T1	1	1	0	1.2	1.3	0.1	0.49	0.5	0	0	0	0	0	0
11/22/2024 18:30	58202	NEWV_T1	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
11/22/2024 18:30	58001	WCAR_T1	4	4	0	0.85	1.13	0.28	0	0	0	0	0	0	0	0
11/22/2024 18:30	67002	STHI_T2	0	0	0	0	0	0	0.61	0.64	0	0	0	0	0	0
11/22/2024 18:30	66505	SMAN_T2	3	3	0	1.47	1.17	-0.3	0	0	0	0	0	0	0	0
11/22/2024 18:30	67001	STHI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/22/2024 18:30	60502	NMAN_T2	0	0	0	0	0	0	-0.16	-0.14	0	0	0	0	0	0
11/22/2024 18:30	46501	LOHA_T1	0	0	0	0	0	0	0	-0.06	1	1	0	1200	1200	0
11/22/2024 18:32	40303	TAMA_T3	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/22/2024 18:32	40302	TAMA_T3	16	10	-6	0.44	0.59	0.15	0	0	0	0	0	0	0	0
11/22/2024 18:32	57403	SPAN_T1	2	11	9	0.15	0.23	0.08	0	0	0	0	0	0	0	0
11/22/2024 18:32	40301	TAMA_T3	2	1	-1	0.1	0	-0.1	2.29	2.73	1	1	0	1200	1200	0
11/22/2024 18:32	57401	SPAN_T1	2	2	0	1.05	1.1	0.05	-0.64	-0.73	1	1	0	600	600	0
11/22/2024 18:34	10702	CATA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/22/2024 18:34	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/22/2024 18:34	10705	CATA_T2	0	0	0	0	0	0	-0.92	-0.9	1	1	0	900	900	0
11/22/2024 18:34	15203	SFAR_T2	0	0	0	0	0	0	-2.5	-2.5	0	0	0	0	0	0
11/22/2024 18:35	67201	TEHI_T1	0	0	0	0	0	0	0.76	0.8	0	0	0	0	0	0
11/22/2024 18:35	67203	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 18:36	65801	RTWN_T1	1	0	-1	1.9	0	-1.9	0	0	0	0	0	0	0	0
11/22/2024 18:36	45502	DERR_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
11/22/2024 18:36	59402	RFLD_T2	0	0	0	0	0	0	-0.89	-0.9	1	1	0	450	450	0
11/22/2024 18:36	65804	RTWN_T1	0	0	0	0	0	0	-0.03	-0.02	1	1	0	600	600	0
11/22/2024 18:36	15203	SFAR_T2	0	0	0	0	0	0	-1.25	-1.26	0	0	0	0	0	0
11/22/2024 18:37	65801	RTWN_T1	1	0	-1	1.9	0	-1.9	0	0	0	0	0	0	0	0
11/22/2024 18:37	65804	RTWN_T1	0	0	0	0	0	0	-0.03	-0.02	1	1	0	600	600	0
11/22/2024 18:37	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/22/2024 18:37	66503	SMAN_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
11/22/2024 18:37	66505	SMAN_T2	3	3	0	1.47	1.17	-0.3	0	0	0	0	0	0	0	0
11/22/2024 18:38	57401	SPAN_T1	2	2	0	1.05	1.1	0.05	0	0	0	0	0	0	0	0
11/22/2024 18:38	57403	SPAN_T1	2	11	9	0.15	0.23	0.08	0.14	0.14	0	0	0	0	0	0
11/22/2024 18:41	46501	LOHA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/22/2024 18:41	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
11/22/2024 18:41	46506	LOHA_T1	3	3	0	3.47	3.77	0.3	0	0	0	0	0	0	0	0
11/22/2024 18:41	57306	MOAL_T2	0	0	0	0	0	0	-6.19	-6.21	2	2	0	2400	2400	0
11/22/2024 18:41	65502	MOJO_T2	71	0	-71	0.11	0	-0.11	0	0	0	0	0	0	0	0
11/22/2024 18:41	57303	MOAL_T2	1	1	0	7.5	7.1	-0.4	0	0	0	0	0	0	0	0
11/22/2024 18:41	44301	BEAV_T2	0	0	0	0	0	0	-0.85	-0.88	1	1	0	600	600	0
11/22/2024 18:41	57301	MOAL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/22/2024 18:42	57301	MOAL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/22/2024 18:42	57306	MOAL_T2	0	0	0	0	0	0	-3.1	-3.11	1	1	0	1200	1200	0
11/22/2024 18:42	57303	MOAL_T2	1	1	0	7.5	7.1	-0.4	0	0	0	0	0	0	0	0
11/22/2024 18:42	43304	WATS_T2	1	0	-1	0.2	0	-0.2	-0.5	-0.51	0	0	0	0	0	0
11/22/2024 18:42	43302	WATS_T2	4	4	0	0.73	0.83	0.1	0	0	0	0	0	0	0	0
11/22/2024 18:43	46501	LOHA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/22/2024 18:43	42902	MIDD_T2	0	0	0	0	0	0	-1.14	-1.14	1	1	0	600	600	0
11/22/2024 18:43	42903	MIDD_T2	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
11/22/2024 18:43	46506	LOHA_T1	3	3	0	3.47	3.77	0.3	0	0	0	0	0	0	0	0
11/22/2024 18:43	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
11/22/2024 18:45	42902	MIDD_T2	0	0	0	0	0	0	-1.14	-1.14	1	1	0	600	600	0
11/22/2024 18:45	42903	MIDD_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
11/22/2024 18:46	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 18:46	42903	MIDD_T2	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
11/22/2024 18:54	62106	ELAN_T1	10	23	13	0.15	0.17	0.02	0	0	0	0	0	0	0	0
11/22/2024 18:54	62103	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/22/2024 18:54	62105	ELAN_T1	3	36	33	0.1	0.12	0.02	0	0	0	0	0	0	0	0
11/22/2024 18:54	62101	ELAN_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/22/2024 19:01	61103	BERK_T5	1	2	1	0.1	0.1	0	0.03	-0.01	0	0	0	0	0	0
11/22/2024 19:01	61102	BERK_T5	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/22/2024 19:07	59402	RFLD_T2	0	0	0	0	0	0	-0.88	-0.89	1	1	0	450	450	0
11/22/2024 19:15	63803	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 19:15	63804	HEMP_T1	5	1	-4	1.38	5.8	4.42	0.84	0.81	0	0	0	0	0	0
11/22/2024 20:30	43301	WATS_T2	0	12	12	0	0.1	0.1	0	0	0	0	0	0	0	0
11/22/2024 20:30	43302	WATS_T2	0	5	5	0	0.74	0.74	0	0	0	0	0	0	0	0
11/22/2024 20:30	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/22/2024 22:03	63804	HEMP_T1	1	4	3	5.6	1.38	-4.22	0.78	0.77	0	0	0	0	0	0
11/22/2024 22:03	63802	HEMP_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
11/22/2024 22:03	63801	HEMP_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
11/22/2024 22:03	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 7:29	55507	HERS_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/23/2024 7:37	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 7:52	14601	SWHI_T1	0	0	0	0	0	0	-0.88	-0.86	0	0	0	0	0	0
11/23/2024 7:59	45702	LIND_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
11/23/2024 8:08	60301	TWVA_T2	0	0	0	0	0	0	-4.12	-4.16	4	4	0	3600	3600	0
11/23/2024 8:13	45501	DERR_T2	0	0	0	0	0	0	0.26	0.35	2	2	0	1800	1800	0
11/23/2024 8:14	12006	HATF_T1	2	2	0	0.45	0	-0.45	0.45	0.51	0	0	0	0	0	0
11/23/2024 8:14	63501	HEID_TBK1-2	10	27	17	0.19	0.26	0.07	-0.4	-0.38	1	1	0	900	900	0
11/23/2024 8:14	45501	DERR_T2	0	0	0	0	0	0	0.26	0.35	2	2	0	1800	1800	0
11/23/2024 8:22	65601	QVIL_T2	0	0	0	0	0	0	-1.06	-1.15	1	1	0	900	900	0
11/23/2024 8:22	65602	QVIL_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
11/23/2024 8:31	63501	HEID_TBK1-2	23	34	11	0.28	0.31	0.03	-0.38	-0.38	1	1	0	900	900	0
11/23/2024 8:32	58302	NOTT_T1	0	0	0	0	0	0	-0.45	-0.45	1	1	0	900	900	0
11/23/2024 8:32	63501	HEID_TBK1-2	23	34	11	0.28	0.31	0.03	-0.38	-0.38	1	1	0	900	900	0
11/23/2024 8:32	40101	HUNT_T2	156	171	15	0.49	0.37	-0.12	-0.91	-0.99	0	0	0	0	0	0
11/23/2024 8:33	63501	HEID_TBK1-2	23	34	11	0.28	0.31	0.03	-0.38	-0.38	1	1	0	900	900	0
11/23/2024 8:36	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 8:36	67702	WERN_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
11/23/2024 8:40	44301	BEAV_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
11/23/2024 8:46	55508	HERS_T2	327	294	-33	0.77	0.64	-0.13	-2.64	-2.64	1	1	0	1200	1200	0
11/23/2024 8:47	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 8:47	63804	HEMP_T1	1	1	0	5.3	5.4	0.1	0.82	0.8	0	0	0	0	0	0
11/23/2024 8:47	40101	HUNT_T2	169	88	-81	0.46	0.34	-0.12	-0.99	-1.36	0	0	0	0	0	0
11/23/2024 8:48	55508	HERS_T2	327	294	-33	0.77	0.64	-0.13	0	0	0	0	0	0	0	0
11/23/2024 8:51	65803	RTWN_T2	23	29	6	0.33	0.36	0.03	0	0	0	0	0	0	0	0
11/23/2024 8:51	65802	RTWN_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
11/23/2024 8:56	42701	AUGU_T1	1	1	0	0.8	0.8	0	0	0	2	2	0	1800	1800	0
11/23/2024 8:57	42701	AUGU_T1	1	1	0	0.8	0.8	0	0	0	2	2	0	1800	1800	0
11/23/2024 8:59	54506	ENOL_T2	0	0	0	0	0	0	0.34	0.3	1	1	0	600	600	0
11/23/2024 8:59	63501	HEID_TBK1-2	29	39	10	0.23	0.36	0.13	-0.4	-0.41	1	1	0	900	900	0
11/23/2024 9:00	65402	MARI_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/23/2024 9:00	45701	LIND_T2	0	0	0	0	0	0	-1.75	-1.76	0	0	0	0	0	0
11/23/2024 9:00	65601	QVIL_T2	0	0	0	0	0	0	-1.13	-1.15	1	1	0	900	900	0
11/23/2024 9:00	65401	MARI_T1	0	0	0	0	0	0	0.34	0.39	0	0	0	0	0	0
11/23/2024 9:00	67503	WEWI_T2	1	1	0	7.5	7.4	-0.1	-0.04	-0.03	0	0	0	0	0	0
11/23/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
11/23/2024 9:00	67502	WEWI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
11/23/2024 9:00	54506	ENOL_T2	0	0	0	0	0	0	0.34	0.3	1	1	0	600	600	0
11/23/2024 9:00	65602	QVIL_T2	4	2	-2	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
11/23/2024 9:00	60301	TWVA_T2	0	0	0	0	0	0	-4.11	-4.14	4	4	0	3600	3600	0
11/23/2024 9:02	65402	MARI_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/23/2024 9:02	65401	MARI_T1	0	0	0	0	0	0	0.34	0.39	0	0	0	0	0	0
11/23/2024 9:02	63501	HEID_TBK1-2	32	39	7	0.32	0.38	0.06	-0.4	-0.41	1	1	0	900	900	0
11/23/2024 9:03	65402	MARI_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/23/2024 9:03	65401	MARI_T1	0	0	0	0	0	0	0.68	0.78	0	0	0	0	0	0
11/23/2024 9:04	65401	MARI_T1	0	0	0	0	0	0	0.34	0.39	0	0	0	0	0	0
11/23/2024 9:04	65402	MARI_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/23/2024 9:06	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 9:06	65402	MARI_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/23/2024 9:06	15201	SFAR_T1	0	0	0	0	0	0	-0.85	-0.9	1	1	0	1200	1200	0
11/23/2024 9:06	67604	WARW_T1	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
11/23/2024 9:07	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/23/2024 9:07	63804	HEMP_T1	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
11/23/2024 9:07	63802	HEMP_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
11/23/2024 9:08	15201	SFAR_T1	0	0	0	0	0	0	-0.85	-0.9	1	1	0	1200	1200	0
11/23/2024 9:08	42701	AUGU_T1	1	1	0	0.5	1	0.5	0	0	2	2	0	1800	1800	0
11/23/2024 9:10	45501	DERR_T2	0	0	0	0	0	0	0.23	0.23	2	2	0	1800	1800	0
11/23/2024 9:11	44301	BEAV_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/23/2024 9:12	45501	DERR_T2	0	0	0	0	0	0	0.23	0.23	2	2	0	1800	1800	0
11/23/2024 9:14	44801	EDAN_T2	0	0	0	0	0	0	-2.66	-2.73	0	0	0	0	0	0
11/23/2024 9:15	41305	FISH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/23/2024 9:15	41301	FISH_T1	2	1	-1	1.45	2.8	1.35	-0.4	-0.42	0	0	0	0	0	0
11/23/2024 9:15	44801	EDAN_T2	0	0	0	0	0	0	-2.66	-2.73	0	0	0	0	0	0
11/23/2024 9:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 9:18	45702	LIND_T2	0	2	2	0	0.15	0.15	-0.51	-0.55	0	0	0	0	0	0
11/23/2024 9:19	58302	NOTT_T1	0	0	0	0	0	0	-0.53	-0.47	1	1	0	900	900	0
11/23/2024 9:26	15203	SFAR_T2	0	1	1	0	0.2	0.2	-1.3	-1.31	0	0	0	0	0	0
11/23/2024 9:26	15201	SFAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 9:29	63501	HEID_TBK1-2	31	43	12	0.4	0.42	0.02	-0.32	-0.35	1	1	0	900	900	0
11/23/2024 9:30	63501	HEID_TBK1-2	36	45	9	0.32	0.55	0.23	-0.96	-1.06	3	3	0	2700	2700	0
11/23/2024 9:33	63601	LETO_T1	2	3	1	0.2	0.33	0.13	0.92	0.94	1	1	0	900	900	0
11/23/2024 9:33	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 9:35	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/23/2024 9:35	66505	SMAN_T2	0	0	0	0	0	0	-0.47	-0.35	1	1	0	900	900	0
11/23/2024 9:35	66504	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/23/2024 9:35	66502	SMAN_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/23/2024 9:36	66505	SMAN_T2	0	0	0	0	0	0	-0.35	-0.36	1	1	0	900	900	0
11/23/2024 9:36	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/23/2024 9:36	66504	SMAN_T2	0	1	1	0	0.4	0.4	-0.53	-0.57	0	0	0	0	0	0
11/23/2024 9:36	66502	SMAN_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/23/2024 9:38	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 9:38	66502	SMAN_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/23/2024 9:38	66504	SMAN_T2	0	1	1	0	0.4	0.4	-1.06	-1.15	0	0	0	0	0	0
11/23/2024 9:38	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/23/2024 9:39	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 9:41	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/23/2024 9:41	42501	ALTA_T2	0	0	0	0	0	0	-1.39	-1.35	1	1	0	600	600	0
11/23/2024 9:42	15203	SFAR_T2	1	1	0	0.2	0.2	0	-1.31	-1.31	0	0	0	0	0	0
11/23/2024 9:42	45501	DERR_T2	0	0	0	0	0	0	0.24	0.26	2	2	0	1800	1800	0
11/23/2024 9:44	64402	LAND_T2	0	0	0	0	0	0	-0.45	-0.44	1	1	0	600	600	0
11/23/2024 9:48	60501	NMAN_T2	1	6	5	0.4	0.17	-0.23	0	0	0	0	0	0	0	0
11/23/2024 9:48	60504	NMAN_T2	3	3	0	0.47	0.77	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/23/2024 9:48	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 9:49	58401	MORO_T1	0	0	0	0	0	0	-1.82	-1.84	2	2	0	1200	1200	0
11/23/2024 9:50	60504	NMAN_T2	3	3	0	0.47	0.77	0.3	0	0	0	0	0	0	0	0
11/23/2024 9:50	60501	NMAN_T2	1	6	5	0.4	0.17	-0.23	0	0	0	0	0	0	0	0
11/23/2024 9:50	58401	MORO_T1	0	0	0	0	0	0	-1.82	-1.84	2	2	0	1200	1200	0
11/23/2024 9:51	60504	NMAN_T2	3	3	0	0.47	0.77	0.3	0	0	0	0	0	0	0	0
11/23/2024 9:51	64101	REFR_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
11/23/2024 9:51	60501	NMAN_T2	1	6	5	0.4	0.17	-0.23	0	0	0	0	0	0	0	0
11/23/2024 9:51	60502	NMAN_T2	0	0	0	0	0	0	-0.41	-0.28	0	0	0	0	0	0
11/23/2024 9:55	60101	COCA_T1	1	1	0	0.2	0.1	-0.1	0.27	0.31	0	0	0	0	0	0
11/23/2024 10:00	12006	HATF_T1	2	0	-2	0.25	0	-0.25	0.49	0.46	0	0	0	0	0	0
11/23/2024 10:04	43201	MVIL_T2	0	1	1	0	0.3	0.3	-0.37	-0.38	0	0	0	0	0	0
11/23/2024 10:05	58402	MORO_T1	0	0	0	0	0	0	0.14	0.3	1	1	0	900	900	0
11/23/2024 10:05	41902	REED_T1	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0	0
11/23/2024 10:12	10801	CHHI_T1	0	0	0	0	0	0	-2	-1.94	3	3	0	2100	2100	0
11/23/2024 10:14	40101	HUNT_T2	38	47	9	0.38	0.26	-0.12	-1.39	-1.38	0	0	0	0	0	0
11/23/2024 10:14	15202	SFAR_T1	0	0	0	0	0	0	-0.82	-0.76	1	1	0	1200	1200	0
11/23/2024 10:15	64202	KINZ_T1	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/23/2024 10:15	64204	KINZ_T1	66	70	4	1.06	1.24	0.18	0	0	0	0	0	0	0	0
11/23/2024 10:15	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 10:16	40101	HUNT_T2	19	41	22	0.31	0.43	0.12	-1.39	-1.38	0	0	0	0	0	0
11/23/2024 10:18	64202	KINZ_T1	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/23/2024 10:18	64201	KINZ_T1	0	0	0	0	0	0	-1.15	-0.71	6	6	0	3000	3000	0
11/23/2024 10:18	64204	KINZ_T1	66	70	4	1.06	1.24	0.18	0	0	0	0	0	0	0	0
11/23/2024 10:20	14201	EALL_T1	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
11/23/2024 10:20	54201	PENN_T1	44	97	53	0.39	0.31	-0.08	-1.32	-1.3	0	0	0	0	0	0
11/23/2024 10:20	54203	PENN_T1	21	23	2	0.95	0.98	0.03	-0.08	-0.05	0	0	0	0	0	0
11/23/2024 10:20	65802	RTWN_T2	0	0	0	0	0	0	-0.44	-0.48	0	0	0	0	0	0
11/23/2024 10:21	54206	PENN_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
11/23/2024 10:21	54203	PENN_T1	21	23	2	0.95	0.98	0.03	0	0	0	0	0	0	0	0
11/23/2024 10:21	54201	PENN_T1	44	97	53	0.39	0.31	-0.08	-1.32	-1.3	0	0	0	0	0	0
11/23/2024 10:22	23201	HIRU_T2	1	0	-1	0.2	0	-0.2	-0.43	-0.44	0	0	0	0	0	0
11/23/2024 10:28	54501	ENOL_T2	0	0	0	0	0	0	-0.54	-0.56	1	1	0	600	600	0
11/23/2024 10:28	46004	BERW_T2	0	0	0	0	0	0	-0.81	-0.73	0	0	0	0	0	0
11/23/2024 10:28	54505	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/23/2024 10:37	57401	SPAN_T1	3	6	3	0.13	0.57	0.44	-1.2	-1.18	1	1	0	600	600	0
11/23/2024 10:38	57401	SPAN_T1	3	6	3	0.13	0.57	0.44	-1.2	-1.18	1	1	0	600	600	0
11/23/2024 10:38	60504	NMAN_T2	3	2	-1	0.47	0.8	0.33	0	0	0	0	0	0	0	0
11/23/2024 10:38	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 10:38	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 10:38	60501	NMAN_T2	4	1	-3	0.23	0.3	0.07	0	0	0	0	0	0	0	0
11/23/2024 10:39	57401	SPAN_T1	3	6	3	0.13	0.57	0.44	0	0	0	0	0	0	0	0
11/23/2024 10:39	57403	SPAN_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
11/23/2024 10:51	43201	MVIL_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
11/23/2024 10:52	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
11/23/2024 10:53	57401	SPAN_T1	5	6	1	0.46	0.35	-0.11	-2.36	-2.4	2	2	0	1200	1200	0
11/23/2024 10:54	54601	SUMM_T2	3	8	5	0.3	0.26	-0.04	-8.33	-8.45	4	4	0	4200	4200	0
11/23/2024 10:54	42701	AUGU_T1	1	1	0	0.7	0.7	0	0	0	2	2	0	1800	1800	0
11/23/2024 10:54	54602	SUMM_T2	7	7	0	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
11/23/2024 10:55	42701	AUGU_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
11/23/2024 10:55	57401	SPAN_T1	5	6	1	0.46	0.35	-0.11	-1.18	-1.2	1	1	0	600	600	0
11/23/2024 10:57	42701	AUGU_T1	1	1	0	0.7	0.7	0	0	0	2	2	0	1800	1800	0
11/23/2024 10:58	57401	SPAN_T1	5	6	1	0.46	0.35	-0.11	-1.18	-1.2	1	1	0	600	600	0
11/23/2024 10:58	53901	HALI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/23/2024 10:58	53902	HALI_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
11/23/2024 10:58	53903	HALI_T2	4	3	-1	0.5	0.83	0.33	-0.12	-0.11	0	0	0	0	0	0
11/23/2024 10:58	42701	AUGU_T1	1	1	0	0.7	0.7	0	0	0	2	2	0	1800	1800	0
11/23/2024 11:00	53903	HALI_T2	3	3	0	0.73	0.83	0.1	0	0	0	0	0	0	0	0
11/23/2024 11:00	57401	SPAN_T1	5	5	0	0.36	0.36	0	-1.18	-1.2	1	1	0	600	600	0
11/23/2024 11:00	53902	HALI_T2	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
11/23/2024 11:00	53901	HALI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/23/2024 11:03	53902	HALI_T2	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
11/23/2024 11:03	53903	HALI_T2	3	3	0	0.73	0.83	0.1	-0.12	-0.11	0	0	0	0	0	0
11/23/2024 11:03	53901	HALI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/23/2024 11:05	54201	PENN_T1	105	77	-28	0.3	0.35	0.05	0	0	0	0	0	0	0	0
11/23/2024 11:05	54203	PENN_T1	24	20	-4	1	1.09	0.09	-0.08	-0.07	0	0	0	0	0	0
11/23/2024 11:07	57401	SPAN_T1	5	5	0	0.36	0.36	0	0	0	0	0	0	0	0	0
11/23/2024 11:07	57403	SPAN_T1	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
11/23/2024 11:12	20603	GRWO_T2	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
11/23/2024 11:17	64204	KINZ_T1	64	68	4	0.62	1.23	0.61	0	0	0	0	0	0	0	0
11/23/2024 11:17	64202	KINZ_T1	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
11/23/2024 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.91	1	1	1	0	600	600	0
11/23/2024 11:17	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 11:18	41902	REED_T1	1	0	-1	0.2	0	-0.2	0.86	0.85	0	0	0	0	0	0
11/23/2024 11:19	42001	MNVL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/23/2024 11:19	52403	GRPA_T2	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
11/23/2024 11:19	42002	MNVL_T2	1	1	0	8.1	8	-0.1	0	0	0	0	0	0	0	0
11/23/2024 11:22	42002	MNVL_T2	1	1	0	8.1	8	-0.1	0	0	0	0	0	0	0	0
11/23/2024 11:22	42001	MNVL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/23/2024 11:23	60201	ATGL_T2	23	27	4	0.2	0.19	-0.01	-0.35	-0.33	0	0	0	0	0	0
11/23/2024 11:25	46506	LOHA_T1	3	3	0	1.3	1.63	0.33	0	0	0	0	0	0	0	0
11/23/2024 11:25	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
11/23/2024 11:25	60201	ATGL_T2	23	27	4	0.2	0.19	-0.01	-0.35	-0.33	0	0	0	0	0	0
11/23/2024 11:26	60201	ATGL_T2	23	27	4	0.2	0.19	-0.01	-0.35	-0.33	0	0	0	0	0	0
11/23/2024 11:30	46801	HEPB_T2	0	2	2	0	0.3	0.3	1.06	1.08	0	0	0	0	0	0
11/23/2024 11:35	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 11:36	60201	ATGL_T2	26	93	67	0.18	0.31	0.13	0	0	0	0	0	0	0	0
11/23/2024 11:37	57401	SPAN_T1	5	5	0	0.36	0.36	0	-1.25	-1.22	1	1	0	600	600	0
11/23/2024 11:38	59102	WALK_T2	2	2	0	0.15	0.4	0.25	0.23	0.22	0	0	0	0	0	0
11/23/2024 11:38	55105	WERT_T1	0	0	0	0	0	0	-0.7	-0.72	1	1	0	900	900	0
11/23/2024 11:40	59102	WALK_T2	2	2	0	0.15	0.4	0.25	0	0	0	0	0	0	0	0
11/23/2024 11:40	59101	WALK_T2	0	0	0	0	0	0	-0.68	-0.64	0	0	0	0	0	0
11/23/2024 11:41	49803	UNIV_T1	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
11/23/2024 11:41	49804	UNIV_T1	0	1	1	0	0.2	0.2	0.41	0.41	0	0	0	0	0	0
11/23/2024 11:41	55105	WERT_T1	0	0	0	0	0	0	-0.7	-0.72	1	1	0	900	900	0
11/23/2024 11:42	60803	BUCK_T1	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
11/23/2024 11:42	60801	BUCK_T1	1	2	1	0.5	0.3	-0.2	-0.17	-0.18	0	0	0	0	0	0
11/23/2024 11:43	60801	BUCK_T1	1	2	1	0.5	0.3	-0.2	-0.17	-0.18	0	0	0	0	0	0
11/23/2024 11:43	60803	BUCK_T1	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
11/23/2024 11:46	63601	LETO_T1	4	5	1	0.33	0.4	0.07	0.87	1.01	1	1	0	900	900	0
11/23/2024 11:49	20603	GRWO_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
11/23/2024 11:51	43202	MVIL_T2	0	0	0	0	0	0	-0.66	-0.73	0	0	0	0	0	0
11/23/2024 11:54	43304	WATS_T2	0	0	0	0	0	0	-0.64	-0.6	0	0	0	0	0	0
11/23/2024 11:54	10801	CHHI_T1	0	2	2	0	0.15	0.15	-2.05	-2.09	3	3	0	2100	2100	0
11/23/2024 11:56	43304	WATS_T2	0	0	0	0	0	0	-0.64	-0.6	0	0	0	0	0	0
11/23/2024 11:56	10602	BLGL_T2	0	0	0	0	0	0	0.15	0.1	0	0	0	0	0	0
11/23/2024 12:06	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 12:06	64801	MONE_T2	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
11/23/2024 12:06	64802	MONE_T2	3	5	2	0.33	0.22	-0.11	0.24	0.23	0	0	0	0	0	0
11/23/2024 12:07	67401	WAKE_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/23/2024 12:07	67402	WAKE_T2	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
11/23/2024 12:14	67401	WAKE_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/23/2024 12:14	67402	WAKE_T2	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
11/23/2024 12:14	13302	ORVI_T2	0	1	1	0	1.8	1.8	1.43	1.41	0	0	0	0	0	0
11/23/2024 12:17	64305	LINC_T1	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
11/23/2024 12:18	64904	MILL_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
11/23/2024 12:19	64101	REFR_T1	1	0	-1	0.1	0	-0.1	0.16	0.15	0	0	0	0	0	0
11/23/2024 12:20	64101	REFR_T1	1	0	-1	0.1	0	-0.1	0.16	0.15	0	0	0	0	0	0
11/23/2024 12:27	59101	WALK_T2	0	0	0	0	0	0	-0.65	-0.62	0	0	0	0	0	0
11/23/2024 12:27	59102	WALK_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/23/2024 12:29	46801	HEPB_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
11/23/2024 12:29	64305	LINC_T1	0	0	0	0	0	0	-0.57	-0.68	0	0	0	0	0	0
11/23/2024 12:29	46803	HEPB_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
11/23/2024 12:45	62106	ELAN_T1	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
11/23/2024 12:48	41902	REED_T1	0	3	3	0	0	0	0.81	0.79	0	0	0	0	0	0
11/23/2024 12:49	65601	QVIL_T2	23	41	18	0.15	0.17	0.02	0	0	0	0	0	0	0	0
11/23/2024 12:49	65602	QVIL_T2	27	19	-8	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
11/23/2024 12:49	65603	QVIL_T2	0	4	4	0	0.1	0.1	0.09	0.1	0	0	0	0	0	0
11/23/2024 12:50	65602	QVIL_T2	27	19	-8	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
11/23/2024 12:50	65601	QVIL_T2	23	41	18	0.15	0.17	0.02	0	0	0	0	0	0	0	0
11/23/2024 12:50	65603	QVIL_T2	0	4	4	0	0.1	0.1	0.09	0.1	0	0	0	0	0	0
11/23/2024 12:51	65601	QVIL_T2	23	41	18	0.15	0.17	0.02	0	0	0	0	0	0	0	0
11/23/2024 12:51	65603	QVIL_T2	0	4	4	0	0.1	0.1	0.1	0.07	0	0	0	0	0	0
11/23/2024 12:51	65602	QVIL_T2	27	19	-8	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
11/23/2024 12:52	57403	SPAN_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
11/23/2024 12:52	57401	SPAN_T1	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
11/23/2024 12:53	57401	SPAN_T1	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
11/23/2024 12:53	57403	SPAN_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
11/23/2024 12:54	57401	SPAN_T1	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
11/23/2024 12:54	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 12:59	60201	ATGL_T2	111	206	95	0.29	0.31	0.02	-0.45	-0.38	0	0	0	0	0	0
11/23/2024 13:02	43202	MVIL_T2	3	0	-3	9.1	0	-9.1	0	0	0	0	0	0	0	0
11/23/2024 13:02	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/23/2024 13:02	43201	MVIL_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
11/23/2024 13:09	42504	ALTA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/23/2024 13:09	42503	ALTA_T2	0	0	0	0	0	0	-0.27	-0.31	0	0	0	0	0	0
11/23/2024 13:12	60801	BUCK_T1	10	31	21	0.15	0.25	0.1	-0.24	-0.25	0	0	0	0	0	0
11/23/2024 13:12	60803	BUCK_T1	4	9	5	0.18	0.19	0.01	0	0	0	0	0	0	0	0
11/23/2024 13:15	63601	LETO_T1	5	5	0	0.32	0.36	0.04	0	0	0	0	0	0	0	0
11/23/2024 13:15	63602	LETO_T1	1	0	-1	0.1	0	-0.1	-0.52	-0.55	0	0	0	0	0	0
11/23/2024 13:16	63602	LETO_T1	1	0	-1	0.1	0	-0.1	-1.05	-1.11	0	0	0	0	0	0
11/23/2024 13:16	20603	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 13:16	20601	GRWO_T2	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
11/23/2024 13:16	63601	LETO_T1	5	5	0	0.32	0.36	0.04	0.96	1.05	1	1	0	900	900	0
11/23/2024 13:18	63602	LETO_T1	1	0	-1	0.1	0	-0.1	-0.52	-0.55	0	0	0	0	0	0
11/23/2024 13:18	43201	MVIL_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
11/23/2024 13:18	63601	LETO_T1	5	5	0	0.32	0.36	0.04	0	0	0	0	0	0	0	0
11/23/2024 13:24	14102	TRUM_T2	0	0	0	0	0	0	0	0	2	2	0	1500	1500	0
11/23/2024 13:29	55508	HERS_T2	242	246	4	0.39	0.41	0.02	-2.64	-2.64	1	1	0	1200	1200	0
11/23/2024 13:31	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.78	1	1	0	900	900	0
11/23/2024 13:31	44505	HAMI_T2	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
11/23/2024 13:31	44502	HAMI_T2	1	1	0	3	3.4	0.4	0	0	0	0	0	0	0	0
11/23/2024 13:31	55507	HERS_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/23/2024 13:32	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 13:32	44502	HAMI_T2	1	1	0	3	3.4	0.4	0	0	0	0	0	0	0	0
11/23/2024 13:33	65003	NEFF_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
11/23/2024 13:33	65005	NEFF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/23/2024 13:33	65004	NEFF_T2	0	1	1	0	0.3	0.3	-1.18	-1.16	1	1	0	600	600	0
11/23/2024 13:34	65004	NEFF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/23/2024 13:34	65003	NEFF_T2	1	3	2	0.1	0.1	0	-2.34	-2.36	2	2	0	1800	1800	0
11/23/2024 13:34	55508	HERS_T2	240	189	-51	0.42	0.4	-0.02	0	0	0	0	0	0	0	0
11/23/2024 13:34	65005	NEFF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/23/2024 13:35	64202	KINZ_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
11/23/2024 13:35	64201	KINZ_T1	1	2	1	0.8	0.45	-0.35	-0.49	-0.56	2	2	0	1200	1200	0
11/23/2024 13:35	65005	NEFF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/23/2024 13:35	65001	NEFF_T2	0	0	0	0	0	0	-0.06	-0.13	0	0	0	0	0	0
11/23/2024 13:35	65004	NEFF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/23/2024 13:35	64204	KINZ_T1	14	24	10	0.26	0.4	0.14	0	0	0	0	0	0	0	0
11/23/2024 13:35	65003	NEFF_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
11/23/2024 13:40	16801	WAGN_T1	32	143	111	8.34	0	-8.34	0	0	0	0	0	0	0	0
11/23/2024 13:47	45802	HEGI_T2	8	26	18	0.25	0.37	0.12	0	0	0	0	0	0	0	0
11/23/2024 13:49	43201	MVIL_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
11/23/2024 13:49	64101	REFR_T1	0	0	0	0	0	0	0.04	0.08	0	0	0	0	0	0
11/23/2024 13:50	64101	REFR_T1	0	0	0	0	0	0	0.04	0.08	0	0	0	0	0	0
11/23/2024 13:51	64101	REFR_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
11/23/2024 13:52	64101	REFR_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
11/23/2024 13:53	64101	REFR_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
11/23/2024 14:05	43201	MVIL_T2	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
11/23/2024 14:16	47203	FAXO_T2	1	1	0	0.8	0.8	0	-1.74	-1.72	1	1	0	1200	1200	0
11/23/2024 14:18	46504	LOHA_T1	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
11/23/2024 14:18	46506	LOHA_T1	4	4	0	2.55	2.8	0.25	0	0	0	0	0	0	0	0
11/23/2024 14:18	46502	LOHA_T1	0	0	0	0	0	0	-1.41	-1.31	1	1	0	1200	1200	0
11/23/2024 14:24	12007	HATF_T1	0	0	0	0	0	0	1.09	1.16	1	1	0	1200	1200	0
11/23/2024 14:24	12005	HATF_T1	2	3	1	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
11/23/2024 14:27	62106	ELAN_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
11/23/2024 14:30	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 14:31	42902	MIDD_T2	0	0	0	0	0	0	-1.45	-1.43	0	0	0	0	0	0
11/23/2024 14:31	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 14:32	42902	MIDD_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
11/23/2024 14:32	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 14:33	46506	LOHA_T1	4	3	-1	2.55	3.57	1.02	0	0	0	0	0	0	0	0
11/23/2024 14:33	46504	LOHA_T1	1	2	1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
11/23/2024 14:33	46501	LOHA_T1	0	0	0	0	0	0	-0.11	-0.13	1	1	0	1200	1200	0
11/23/2024 14:34	65207	PRIN_T4	2	2	0	2.3	1.55	-0.75	0	0	0	0	0	0	0	0
11/23/2024 14:34	65201	PRIN_T4	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
11/23/2024 14:37	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 14:38	16302	ALPA_T2	0	0	0	0	0	0	-1.6	-1.75	0	0	0	0	0	0
11/23/2024 14:40	16302	ALPA_T2	0	0	0	0	0	0	-1.6	-1.75	0	0	0	0	0	0
11/23/2024 14:42	48901	FOSP_T2	0	0	0	0	0	0	-0.46	-0.45	1	1	0	600	600	0
11/23/2024 14:43	48901	FOSP_T2	0	0	0	0	0	0	-0.91	-0.9	2	2	0	1200	1200	0
11/23/2024 14:44	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
11/23/2024 14:44	16302	ALPA_T2	0	0	0	0	0	0	-0.8	-0.87	0	0	0	0	0	0
11/23/2024 14:44	48902	FOSP_T2	0	0	0	0	0	0	-0.17	-0.14	0	0	0	0	0	0
11/23/2024 14:44	53903	HALI_T2	2	2	0	1.3	1.15	-0.15	-0.28	-0.24	0	0	0	0	0	0
11/23/2024 14:44	16102	BING_T2	0	1	1	0	0.2	0.2	-0.08	-0.15	0	0	0	0	0	0
11/23/2024 14:44	53901	HALI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/23/2024 14:45	48901	FOSP_T2	0	0	0	0	0	0	-0.46	-0.45	1	1	0	600	600	0
11/23/2024 14:48	12002	HATF_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
11/23/2024 14:48	12005	HATF_T1	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
11/23/2024 14:55	22904	HARW_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 14:55	22901	HARW_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/23/2024 14:55	22903	HARW_T1	21	24	3	1.93	2.27	0.34	0	0	0	0	0	0	0	0
11/23/2024 14:55	22905	HARW_T1	32	67	35	0.81	0.9	0.09	-0.37	-0.29	0	0	0	0	0	0
11/23/2024 15:01	63801	HEMP_T1	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
11/23/2024 15:01	41502	FAIR_T2	0	0	0	0	0	0	-1.2	-1.21	1	1	0	600	600	0
11/23/2024 15:01	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
11/23/2024 15:01	48901	FOSP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 15:01	41504	FAIR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 15:06	54602	SUMM_T2	0	16	16	0	0.32	0.32	0	0	0	0	0	0	0	0
11/23/2024 15:06	54601	SUMM_T2	5	6	1	0.32	0.25	-0.07	-4.29	-4.28	2	2	0	2100	2100	0
11/23/2024 15:29	21501	CEAV_T2	0	0	0	0	0	0	-0.22	-0.27	0	0	0	0	0	0
11/23/2024 16:10	17802	GILB_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
11/23/2024 16:52	13302	ORVI_T2	0	0	0	0	0	0	1.12	1.2	0	0	0	0	0	0
11/23/2024 17:00	10602	BLGL_T2	1	1	0	8.9	9.6	0.7	0.15	0.14	0	0	0	0	0	0
11/23/2024 18:22	21501	CEAV_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
11/23/2024 18:30	48901	FOSP_T2	0	0	0	0	0	0	-0.46	-0.46	1	1	0	600	600	0
11/23/2024 18:33	57401	SPAN_T1	0	0	0	0	0	0	-1.82	-1.68	2	2	0	1200	1200	0
11/23/2024 18:33	54201	PENN_T1	8	11	3	0.76	0.8	0.04	-1.35	-1.31	0	0	0	0	0	0
11/23/2024 18:33	54203	PENN_T1	18	18	0	0.64	0.83	0.19	0	0	0	0	0	0	0	0
11/23/2024 18:33	45501	DERR_T2	0	0	0	0	0	0	-0.75	-0.77	2	2	0	1800	1800	0
11/23/2024 18:34	46501	LOHA_T1	0	0	0	0	0	0	-0.11	-0.16	1	1	0	1200	1200	0
11/23/2024 18:34	46506	LOHA_T1	3	4	1	2.6	2.4	-0.2	0	0	0	0	0	0	0	0
11/23/2024 18:34	57401	SPAN_T1	0	0	0	0	0	0	-0.91	-0.84	1	1	0	600	600	0
11/23/2024 18:34	54501	ENOL_T2	0	0	0	0	0	0	-0.47	-0.53	1	1	0	600	600	0
11/23/2024 18:35	54203	PENN_T1	18	18	0	0.64	0.83	0.19	-0.23	-0.21	0	0	0	0	0	0
11/23/2024 18:35	65401	MARI_T1	0	0	0	0	0	0	0.32	0.27	0	0	0	0	0	0
11/23/2024 18:35	54201	PENN_T1	8	11	3	0.76	0.8	0.04	-1.35	-1.31	0	0	0	0	0	0
11/23/2024 18:35	48902	FOSP_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
11/23/2024 18:35	48901	FOSP_T2	0	0	0	0	0	0	-0.92	-0.92	2	2	0	1200	1200	0
11/23/2024 18:35	57401	SPAN_T1	0	0	0	0	0	0	-1.82	-1.68	2	2	0	1200	1200	0
11/23/2024 18:36	42701	AUGU_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/23/2024 18:36	45501	DERR_T2	0	0	0	0	0	0	-0.75	-0.77	2	2	0	1800	1800	0
11/23/2024 18:36	54506	ENOL_T2	0	0	0	0	0	0	0.36	0.4	1	1	0	600	600	0
11/23/2024 18:36	23201	HIRU_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
11/23/2024 18:36	63501	HEID_TBK1-2	35	46	11	0.47	0.77	0.3	-0.53	-0.58	1	1	0	900	900	0
11/23/2024 18:36	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
11/23/2024 18:36	42503	ALTA_T2	0	0	0	0	0	0	-0.32	-0.3	0	0	0	0	0	0
11/23/2024 18:36	44502	HAMI_T2	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
11/23/2024 18:36	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:36	23203	HIRU_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:36	46506	LOHA_T1	3	4	1	2.6	2.4	-0.2	0	0	0	0	0	0	0	0
11/23/2024 18:36	44505	HAMI_T2	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
11/23/2024 18:36	60501	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 18:37	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.09	0	0	0	0	0	0
11/23/2024 18:37	57401	SPAN_T1	0	0	0	0	0	0	-0.84	-1	1	1	0	600	600	0
11/23/2024 18:37	60502	NMAN_T2	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
11/23/2024 18:37	42001	MNVL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:37	60501	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 18:37	48901	FOSP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:38	20603	GRWO_T2	3	2	-1	0.1	0.1	0	0.38	0.39	0	0	0	0	0	0
11/23/2024 18:38	65003	NEFF_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 18:38	42903	MIDD_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 18:38	66504	SMAN_T2	0	0	0	0	0	0	-1	-1.1	0	0	0	0	0	0
11/23/2024 18:38	45501	DERR_T2	0	0	0	0	0	0	-0.77	-0.74	2	2	0	1800	1800	0
11/23/2024 18:38	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.09	0	0	0	0	0	0
11/23/2024 18:38	65004	NEFF_T2	0	0	0	0	0	0	-1.15	-1.17	1	1	0	600	600	0
11/23/2024 18:38	59102	WALK_T2	0	0	0	0	0	0	-0.44	-0.41	1	1	0	600	600	0
11/23/2024 18:38	66505	SMAN_T2	3	3	0	0.53	0.77	0.24	0	0	0	0	0	0	0	0
11/23/2024 18:38	42902	MIDD_T2	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
11/23/2024 18:39	42903	MIDD_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 18:39	63501	HEID_TBK1-2	35	46	11	0.47	0.77	0.3	-0.53	-0.58	1	1	0	900	900	0
11/23/2024 18:39	45701	LIND_T2	0	0	0	0	0	0	-1.76	-1.77	0	0	0	0	0	0
11/23/2024 18:39	58402	MORO_T1	2	0	-2	1.2	0	-1.2	0	-0.02	2	2	0	1200	1200	0
11/23/2024 18:39	64402	LAND_T2	0	0	0	0	0	0	-0.61	-0.62	1	1	0	600	600	0
11/23/2024 18:39	55508	HERS_T2	60	110	50	0.2	0.28	0.08	-2.64	-2.64	1	1	0	1200	1200	0
11/23/2024 18:39	65802	RTWN_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
11/23/2024 18:39	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:39	65401	MARI_T1	0	0	0	0	0	0	0.27	0.32	0	0	0	0	0	0
11/23/2024 18:39	66505	SMAN_T2	3	3	0	0.53	0.77	0.24	0	0	0	0	0	0	0	0
11/23/2024 18:40	60101	COCA_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
11/23/2024 18:40	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:40	46506	LOHA_T1	3	4	1	2.6	2.4	-0.2	0	0	0	0	0	0	0	0
11/23/2024 18:40	65003	NEFF_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 18:40	47203	FAXO_T2	1	1	0	1	1.2	0.2	-1.72	-1.74	1	1	0	1200	1200	0
11/23/2024 18:40	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:40	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:40	16302	ALPA_T2	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
11/23/2024 18:40	46502	LOHA_T1	0	0	0	0	0	0	-1.29	-1.38	1	1	0	1200	1200	0
11/23/2024 18:40	43304	WATS_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
11/23/2024 18:40	53902	HALI_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
11/23/2024 18:40	43202	MVIL_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
11/23/2024 18:40	53903	HALI_T2	2	2	0	0.35	0.85	0.5	-0.14	-0.14	0	0	0	0	0	0
11/23/2024 18:40	15203	SFAR_T2	0	0	0	0	0	0	-1.26	-1.31	0	0	0	0	0	0
11/23/2024 18:40	59101	WALK_T2	0	0	0	0	0	0	-0.63	-0.56	0	0	0	0	0	0
11/23/2024 18:40	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:40	65001	NEFF_T2	0	0	0	0	0	0	0.07	-0.06	0	0	0	0	0	0
11/23/2024 18:40	42701	AUGU_T1	1	1	0	0.3	0.3	0	0	0	2	2	0	1800	1800	0
11/23/2024 18:40	60501	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 18:40	65207	PRIN_T4	3	4	1	2.57	0.67	-1.9	0	0	0	0	0	0	0	0
11/23/2024 18:41	63402	LETO_T1	0	0	0	0	0	0	-0.54	-0.44	0	0	0	0	0	0
11/23/2024 18:41	42701	AUGU_T1	1	1	0	0.3	0.3	0	0	0	2	2	0	1800	1800	0
11/23/2024 18:41	45802	HEGI_T2	47	48	1	1.36	1.34	-0.02	0	0	0	0	0	0	0	0
11/23/2024 18:41	66504	SMAN_T2	0	0	0	0	0	0	-0.5	-0.55	0	0	0	0	0	0
11/23/2024 18:41	63601	LETO_T1	0	4	4	0	0.33	0.33	0.73	0.83	1	1	0	900	900	0
11/23/2024 18:41	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:41	66505	SMAN_T2	3	3	0	0.53	0.77	0.24	-0.44	-0.48	1	1	0	900	900	0
11/23/2024 18:41	54206	PENN_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
11/23/2024 18:42	53902	HALI_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
11/23/2024 18:42	53903	HALI_T2	2	2	0	0.35	0.85	0.5	0	0	0	0	0	0	0	0
11/23/2024 18:42	66505	SMAN_T2	3	3	0	0.53	0.77	0.24	-0.44	-0.48	1	1	0	900	900	0
11/23/2024 18:42	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:42	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:42	53901	HALI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:42	57403	SPAN_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
11/23/2024 18:42	17802	GILB_T1	0	0	0	0	0	0	0.08	0.12	0	0	0	0	0	0
11/23/2024 18:42	42701	AUGU_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/23/2024 18:42	16302	ALPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:43	43201	MVIL_T2	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
11/23/2024 18:43	60801	BUCK_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
11/23/2024 18:43	54601	SUMM_T2	0	0	0	0	0	0	-4.19	-4.21	2	2	0	2100	2100	0
11/23/2024 18:43	53902	HALI_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
11/23/2024 18:43	40101	HUNT_T2	59	17	-42	0.36	0.4	0.04	-1.52	-1.55	0	0	0	0	0	0
11/23/2024 18:43	53903	HALI_T2	2	2	0	0.35	0.85	0.5	-0.14	-0.14	0	0	0	0	0	0
11/23/2024 18:44	60501	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 18:44	15201	SFAR_T1	0	0	0	0	0	0	-0.54	-0.33	2	2	0	2400	2400	0
11/23/2024 18:44	42902	MIDD_T2	0	0	0	0	0	0	-1.34	-1.38	0	0	0	0	0	0
11/23/2024 18:44	16302	ALPA_T2	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
11/23/2024 18:44	64201	KINZ_T1	1	1	0	0.6	1	0.4	-1	-0.9	3	3	0	1500	1500	0
11/23/2024 18:44	60801	BUCK_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
11/23/2024 18:44	67402	WAKE_T2	0	0	0	0	0	0	-0.45	-0.47	1	1	0	600	600	0
11/23/2024 18:44	15203	SFAR_T2	0	0	0	0	0	0	-1.26	-1.31	0	0	0	0	0	0
11/23/2024 18:44	57403	SPAN_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
11/23/2024 18:44	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:44	55508	HERS_T2	60	110	50	0.2	0.28	0.08	0	0	0	0	0	0	0	0
11/23/2024 18:44	42903	MIDD_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 18:44	63601	LETO_T1	0	4	4	0	0.33	0.33	0.73	0.83	1	1	0	900	900	0
11/23/2024 18:44	42701	AUGU_T1	1	1	0	0.3	0.3	0	0	0	2	2	0	1800	1800	0
11/23/2024 18:44	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.09	0	0	0	0	0	0
11/23/2024 18:44	64204	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
11/23/2024 18:45	65003	NEFF_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
11/23/2024 18:45	60201	ATGL_T2	0	7	7	0	0.11	0.11	-0.42	-0.33	0	0	0	0	0	0
11/23/2024 18:45	63501	HEID_TBK1-2	38	93	55	0.73	0.51	-0.22	-0.53	-0.58	1	1	0	900	900	0
11/23/2024 18:45	44301	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 18:45	64802	MONE_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
11/23/2024 18:45	63804	HEMP_T1	1	2	1	5.7	2.75	-2.95	0	0	0	0	0	0	0	0
11/23/2024 18:45	53903	HALI_T2	2	2	0	0.65	0.85	0.2	-0.14	-0.14	0	0	0	0	0	0
11/23/2024 18:45	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 18:45	63801	HEMP_T1	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
11/23/2024 18:45	62106	ELAN_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
11/23/2024 18:45	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
11/23/2024 18:45	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:46	12006	HATF_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
11/23/2024 18:46	20603	GRWO_T2	2	0	-2	0.1	0	-0.1	0.38	0.39	0	0	0	0	0	0
11/23/2024 18:46	44502	HAMI_T2	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
11/23/2024 18:46	58302	NOTT_T1	0	0	0	0	0	0	-0.81	-0.81	1	1	0	900	900	0
11/23/2024 18:46	57401	SPAN_T1	0	0	0	0	0	0	-0.84	-1	1	1	0	600	600	0
11/23/2024 18:46	22904	HARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/23/2024 18:46	67604	WARW_T1	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
11/23/2024 18:46	44801	EDAN_T2	1	1	0	0.7	0	-0.7	-2.74	-2.7	0	0	0	0	0	0
11/23/2024 18:46	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:46	20602	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:46	64305	LINC_T1	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
11/23/2024 18:46	16102	BING_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
11/23/2024 18:46	22903	HARW_T1	1	21	20	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/23/2024 18:46	67605	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/23/2024 18:46	46801	HEPB_T2	2	2	0	0.55	0.8	0.25	0.56	0.55	0	0	0	0	0	0
11/23/2024 18:46	44505	HAMI_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
11/23/2024 18:46	22901	HARW_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:46	10801	CHHI_T1	0	8	8	0	0.13	0.13	-2.15	-2.18	3	3	0	2100	2100	0
11/23/2024 18:46	12005	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 18:46	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:46	62106	ELAN_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
11/23/2024 18:46	22905	HARW_T1	80	64	-16	1.56	0.78	-0.78	-0.38	-0.37	0	0	0	0	0	0
11/23/2024 18:46	14201	EALL_T1	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
11/23/2024 18:46	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.09	0	0	0	0	0	0
11/23/2024 18:46	16302	ALPA_T2	0	0	0	0	0	0	-1.66	-1.68	0	0	0	0	0	0
11/23/2024 18:47	64201	KINZ_T1	1	1	0	1	0.8	-0.2	-1	-0.9	3	3	0	1500	1500	0
11/23/2024 18:47	44801	EDAN_T2	1	1	0	0.7	0	-0.7	-2.74	-2.7	0	0	0	0	0	0
11/23/2024 18:47	54601	SUMM_T2	0	1	1	0	0.1	0.1	-4.19	-4.21	2	2	0	2100	2100	0
11/23/2024 18:47	46004	BERW_T2	1	1	0	0.3	0	-0.3	-0.84	-0.85	0	0	0	0	0	0
11/23/2024 18:47	49804	UNIV_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
11/23/2024 18:47	65601	QVIL_T2	0	0	0	0	0	0	-1.23	-1.25	1	1	0	900	900	0
11/23/2024 18:47	60201	ATGL_T2	0	7	7	0	0.11	0.11	-0.42	-0.33	0	0	0	0	0	0
11/23/2024 18:47	41301	FISH_T1	2	3	1	1.5	1.23	-0.27	-0.44	-0.43	0	0	0	0	0	0
11/23/2024 18:47	64204	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
11/23/2024 18:47	49803	UNIV_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
11/23/2024 18:48	64201	KINZ_T1	1	1	0	1	0.8	-0.2	-1	-0.9	3	3	0	1500	1500	0
11/23/2024 18:48	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:48	15201	SFAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:48	46801	HEPB_T2	2	2	0	0.55	0.8	0.25	0	0	0	0	0	0	0	0
11/23/2024 18:48	65401	MARI_T1	0	0	0	0	0	0	0.27	0.32	0	0	0	0	0	0
11/23/2024 18:48	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.09	0	0	0	0	0	0
11/23/2024 18:48	10801	CHHI_T1	0	8	8	0	0.13	0.13	-2.15	-2.18	3	3	0	2100	2100	0
11/23/2024 18:48	40101	HUNT_T2	17	11	-6	0.45	0.1	-0.35	-1.52	-1.55	0	0	0	0	0	0
11/23/2024 18:48	57403	SPAN_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
11/23/2024 18:48	64204	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
11/23/2024 18:48	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/23/2024 18:48	46803	HEPB_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
11/23/2024 18:49	60301	TWVA_T2	0	0	0	0	0	0	-6.69	-6.73	4	4	0	3600	3600	0
11/23/2024 18:49	64902	MILL_T2	0	0	0	0	0	0	-1.44	-1.45	1	1	0	900	900	0
11/23/2024 18:49	59102	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:49	63601	LETO_T1	1	5	4	0.1	0.56	0.46	0	0	0	0	0	0	0	0
11/23/2024 18:49	42501	ALTA_T2	0	0	0	0	0	0	-1.37	-1.39	1	1	0	600	600	0
11/23/2024 18:49	57401	SPAN_T1	0	0	0	0	0	0	-0.84	-1	1	1	0	600	600	0
11/23/2024 18:49	65003	NEFF_T2	0	4	4	0	0.15	0.15	-2.28	-2.34	2	2	0	1800	1800	0
11/23/2024 18:49	63602	LETO_T1	0	0	0	0	0	0	-0.54	-0.44	0	0	0	0	0	0
11/23/2024 18:49	63802	RTWN_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
11/23/2024 18:50	45702	LIND_T2	0	0	0	0	0	0	-0.53	-0.49	0	0	0	0	0	0
11/23/2024 18:50	64101	REFR_T1	0	0	0	0	0	0	-0.25	-0.18	0	0	0	0	0	0
11/23/2024 18:50	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
11/23/2024 18:50	16302	ALPA_T2	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
11/23/2024 18:50	65401	MARI_T1	0	0	0	0	0	0	0.27	0.32	0	0	0	0	0	0
11/23/2024 18:50	53903	HALI_T2	2	2	0	0.65	0.85	0.2	0	0	0	0	0	0	0	0
11/23/2024 18:50	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:50	42001	MNVL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:50	58401	MORO_T1	0	0	0	0	0	0	-1.16	-1.14	1	1	0	600	600	0
11/23/2024 18:51	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.27	0	0	0	0	0	0
11/23/2024 18:51	57403	SPAN_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
11/23/2024 18:51	63501	HEID_TBK1-2	38	93	55	0.73	0.51	-0.22	-0.58	-0.57	1	1	0	900	900	0
11/23/2024 18:51	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/23/2024 18:51	65401	MARI_T1	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
11/23/2024 18:51	63804	HEMP_T1	1	2	1	5.7	2.75	-2.95	0	0	0	0	0	0	0	0
11/23/2024 18:51	42701	AUGU_T1	1	1	0	0.3	0.3	0	0	0	2	2	0	1800	1800	0
11/23/2024 18:51	63802	HEMP_T1	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
11/23/2024 18:51	60201	ATGL_T2	0	7	7	0	0.11	0.11	-0.33	-0.32	0	0	0	0	0	0
11/23/2024 18:51	46801	HEPB_T2	2	2	0	0.55	0.8	0.25	0.56	0.55	0	0	0	0	0	0
11/23/2024 18:52	63602	LETO_T1	0	0	0	0	0	0	-0.44	-0.55	0	0	0	0	0	0
11/23/2024 18:52	60801	BUCK_T1	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
11/23/2024 18:52	65603	QVIL_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
11/23/2024 18:52	20602	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:52	20601	GRWO_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
11/23/2024 18:52	14103	TRUM_T2	6	1	-5	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/23/2024 18:52	58401	MORO_T1	0	0	0	0	0	0	-1.14	-1.2	1	1	0	600	600	0
11/23/2024 18:52	14102	TRUM_T2	1	1	0	6.4	6.4	0	0	0	2	2	0	1500	1500	0
11/23/2024 18:52	20603	GRWO_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/23/2024 18:52	63601	LETO_T1	1	5	4	0.1	0.56	0.46	0	0	0	0	0	0	0	0
11/23/2024 18:52	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:52	64904	MILL_T1	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
11/23/2024 18:52	63501	HEID_TBK1-2	38	93	55	0.73	0.51	-0.22	-0.58	-0.57	1	1	0	900	900	0
11/23/2024 18:53	64204	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
11/23/2024 18:53	64201	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
11/23/2024 18:53	64203	KINZ_T1	0	0	0	0	0	0	-0.47	-0.48	1	1	0	600	600	0
11/23/2024 18:54	15202	SFAR_T1	0	0	0	0	0	0	-0.78	-0.79	1	1	0	1200	1200	0
11/23/2024 18:54	64204	KINZ_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
11/23/2024 18:54	64201	KINZ_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
11/23/2024 18:55	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:55	60201	ATGL_T2	0	7	7	0	0.11	0.11	-0.33	-0.32	0	0	0	0	0	0
11/23/2024 18:56	65603	QVIL_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
11/23/2024 18:56	67402	WAKE_T2	0	0	0	0	0	0	-0.47	-0.46	1	1	0	600	600	0
11/23/2024 18:56	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:56	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 18:58	13302	ORVI_T2	0	0	0	0	0	0	1.49	1.42	0	0	0	0	0	0
11/23/2024 19:01	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/23/2024 19:02	63602	LETO_T1	0	0	0	0	0	0	-0.44	-0.55	0	0	0	0	0	0
11/23/2024 19:02	63601	LETO_T1	4	5	1	0.33	0.56	0.23	0	0	0	0	0	0	0	0
11/23/2024 19:02	60201	ATGL_T2	2	10	8	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/23/2024 19:02	65603	QVIL_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
11/23/2024 19:35	52403	GRPA_T2	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
11/23/2024 20:35	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
11/23/2024 21:22	12002	HATF_T1	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
11/23/2024 21:22	12005	HATF_T1	3	3	0	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
11/23/2024 21:40	55507	HERS_T1	4	8	4	0.2	0.35	0.15	-0.01	-0.01	0	0	0	0	0	0
11/24/2024 7:51	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 8:05	27605	PIRI_T2	0	0	0	0	0	0	-0.83	-0.82	1	1	0	900	900	0
11/24/2024 8:14	45501	DERR_T2	0	0	0	0	0	0	-0.52	-0.47	2	2	0	1800	1800	0
11/24/2024 8:17	64204	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
11/24/2024 8:17	64203	KINZ_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
11/24/2024 8:17	46101	MACI_T2	0	0	0	0	0	0	-0.63	-0.59	1	1	0	1200	1200	0
11/24/2024 8:17	64201	KINZ_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/24/2024 8:18	13303	ORVI_T1	0	0	0	0	0	0	0.65	0.69	0	0	0	0	0	0
11/24/2024 8:18	27603	PIRI_T2	0	0	0	0	0	0	-1.86	-1.87	2	2	0	1800	1800	0
11/24/2024 8:22	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 8:23	60301	TWVA_T2	0	0	0	0	0	0	-4.41	-4.35	4	4	0	3600	3600	0
11/24/2024 8:30	12005	HATF_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
11/24/2024 8:30	46801	HEPB_T2	0	2	2	0	0.8	0.8	0.49	0.52	0	0	0	0	0	0
11/24/2024 8:30	12006	HATF_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
11/24/2024 8:41	40701	FFLD_T1	13	13	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/24/2024 8:41	40703	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/24/2024 8:41	40702	FFLD_T1	48	70	22	0.16	0.15	-0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/24/2024 8:44	40703	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/24/2024 8:44	40702	FFLD_T1	48	70	22	0.16	0.15	-0.01	-1.36	-1.34	1	1	0	1200	1200	0
11/24/2024 8:44	40701	FFLD_T1	13	13	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/24/2024 8:48	13303	ORVI_T1	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
11/24/2024 8:50	67401	WAKE_T2	0	0	0	0	0	0	-0.97	-0.95	0	0	0	0	0	0
11/24/2024 8:53	67401	WAKE_T2	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
11/24/2024 8:58	12005	HATF_T1	2	3	1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
11/24/2024 8:58	12003	HATF_T1	0	0	0	0	0	0	0.78	0.82	0	0	0	0	0	0
11/24/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
11/24/2024 9:00	65402	MARI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/24/2024 9:00	27603	PIRI_T2	0	0	0	0	0	0	-1.84	-1.8	2	2	0	1800	1800	0
11/24/2024 9:00	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 9:00	27605	PIRI_T2	0	0	0	0	0	0	-0.78	-0.74	1	1	0	900	900	0
11/24/2024 9:00	13303	ORVI_T1	0	0	0	0	0	0	0.68	0.73	0	0	0	0	0	0
11/24/2024 9:00	64101	REFR_T1	0	0	0	0	0	0	0.14	0.21	0	0	0	0	0	0
11/24/2024 9:00	52403	GRPA_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
11/24/2024 9:06	42202	SHEN_T2	16	29	13	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
11/24/2024 9:06	42201	SHEN_T2	0	0	0	0	0	0	0.65	0.69	0	0	0	0	0	0
11/24/2024 9:06	13303	ORVI_T1	0	0	0	0	0	0	0.73	0.66	0	0	0	0	0	0
11/24/2024 9:07	22905	HARW_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
11/24/2024 9:07	64101	REFR_T1	0	0	0	0	0	0	0.07	0.11	0	0	0	0	0	0
11/24/2024 9:07	22903	HARW_T1	2	3	1	1.45	1.15	-0.3	0	0	0	0	0	0	0	0
11/24/2024 9:08	42201	SHEN_T2	0	0	0	0	0	0	0.65	0.69	0	0	0	0	0	0
11/24/2024 9:08	64101	REFR_T1	0	0	0	0	0	0	0.07	0.11	0	0	0	0	0	0
11/24/2024 9:08	42202	SHEN_T2	16	29	13	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
11/24/2024 9:09	64101	REFR_T1	0	0	0	0	0	0	0.07	0.11	0	0	0	0	0	0
11/24/2024 9:10	60301	TWVA_T2	0	0	0	0	0	0	-4.29	-4.26	4	4	0	3600	3600	0
11/24/2024 9:10	60305	TWVA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/24/2024 9:21	66202	SISP_T2	0	0	0	0	0	0	-0.88	-0.85	0	0	0	0	0	0
11/24/2024 9:22	67401	WAKE_T2	0	1	1	0	0.1	0.1	-0.96	-0.97	0	0	0	0	0	0
11/24/2024 9:23	64101	REFR_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
11/24/2024 9:24	67401	WAKE_T2	0	1	1	0	0.1	0.1	-0.96	-0.97	0	0	0	0	0	0
11/24/2024 9:27	45501	DERR_T2	0	0	0	0	0	0	-0.47	-0.47	2	2	0	1800	1800	0
11/24/2024 9:32	64802	MONE_T2	1	0	-1	0.2	0	-0.2	0.21	0.21	0	0	0	0	0	0
11/24/2024 9:32	64801	MONE_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/24/2024 9:36	14603	SWHI_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
11/24/2024 9:44	63501	HEID_TBK1-2	0	1	1	0	0.3	0.3	0.35	0.32	0	0	0	0	0	0
11/24/2024 9:44	61305	EARL_T1	0	0	0	0	0	0	0.18	0.08	2	2	0	1500	1500	0
11/24/2024 9:44	12005	HATF_T1	3	4	1	0.23	0.25	0.02	0	0	0	0	0	0	0	0
11/24/2024 9:44	12002	HATF_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
11/24/2024 9:45	63501	HEID_TBK1-2	1	1	0	0.3	0.3	0	0.35	0.32	0	0	0	0	0	0
11/24/2024 9:46	12005	HATF_T1	4	4	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
11/24/2024 9:46	12003	HATF_T1	0	0	0	0	0	0	0.82	0.87	0	0	0	0	0	0
11/24/2024 9:48	12007	HATF_T1	0	0	0	0	0	0	1.28	1.28	1	1	0	1200	1200	0
11/24/2024 9:48	63501	HEID_TBK1-2	1	1	0	0.3	0.3	0	0.35	0.32	0	0	0	0	0	0
11/24/2024 9:48	12005	HATF_T1	4	4	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
11/24/2024 9:48	65602	QVIL_T2	45	35	-10	0.26	0.33	0.07	0	0	0	0	0	0	0	0
11/24/2024 9:48	65603	QVIL_T2	0	6	6	0	0.12	0.12	0.05	0.05	0	0	0	0	0	0
11/24/2024 9:48	65604	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/24/2024 9:48	65601	QVIL_T2	27	47	20	0.15	0.17	0.02	0	0	0	0	0	0	0	0
11/24/2024 9:49	65602	QVIL_T2	45	35	-10	0.26	0.33	0.07	0	0	0	0	0	0	0	0
11/24/2024 9:49	65603	QVIL_T2	0	6	6	0	0.12	0.12	0.05	0.05	0	0	0	0	0	0
11/24/2024 9:49	65604	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/24/2024 9:49	65601	QVIL_T2	27	47	20	0.15	0.17	0.02	0	0	0	0	0	0	0	0
11/24/2024 9:50	65604	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/24/2024 9:50	65601	QVIL_T2	27	47	20	0.15	0.17	0.02	-1.3	-1.23	1	1	0	900	900	0
11/24/2024 9:50	65603	QVIL_T2	0	6	6	0	0.12	0.12	0.05	0.05	0	0	0	0	0	0
11/24/2024 9:50	65602	QVIL_T2	45	35	-10	0.26	0.33	0.07	0	0	0	0	0	0	0	0
11/24/2024 9:50	54506	ENOL_T2	0	0	0	0	0	0	0.3	0.26	1	1	0	600	600	0
11/24/2024 9:52	66504	SMAN_T2	0	0	0	0	0	0	-1.8	-1.98	0	0	0	0	0	0
11/24/2024 9:52	55105	WERT_T1	0	0	0	0	0	0	-0.7	-0.71	1	1	0	900	900	0
11/24/2024 9:58	10801	CHHI_T1	6	2	-4	0.23	0.35	0.12	2.25	2.24	3	3	0	2100	2100	0
11/24/2024 9:59	63601	LETO_T1	5	5	0	0.76	0.76	0	0	0	0	0	0	0	0	0
11/24/2024 9:59	63602	LETO_T1	0	0	0	0	0	0	-0.52	-0.56	0	0	0	0	0	0
11/24/2024 10:01	63602	LETO_T1	0	13	13	0	0.11	0.11	-0.52	-0.56	0	0	0	0	0	0
11/24/2024 10:01	20601	GRWO_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/24/2024 10:01	20603	GRWO_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
11/24/2024 10:01	63601	LETO_T1	5	5	0	0.74	0.8	0.06	0	0	0	0	0	0	0	0
11/24/2024 10:02	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 10:03	45701	LIND_T2	0	0	0	0	0	0	-1.74	-1.74	0	0	0	0	0	0
11/24/2024 10:03	60502	NMAN_T2	0	0	0	0	0	0	-0.57	-0.61	0	0	0	0	0	0
11/24/2024 10:05	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 10:07	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 10:10	10602	BLGL_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
11/24/2024 10:10	15203	SFAR_T2	18	0	-18	5.23	0	-5.23	-2.75	-2.68	0	0	0	0	0	0
11/24/2024 10:10	15204	SFAR_T2	503	0	-503	5.52	0	-5.52	0	0	0	0	0	0	0	0
11/24/2024 10:11	46801	HEPB_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
11/24/2024 10:11	46803	HEPB_T2	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
11/24/2024 10:12	15204	SFAR_T2	503	0	-503	5.52	0	-5.52	0	0	0	0	0	0	0	0
11/24/2024 10:12	15203	SFAR_T2	18	0	-18	5.23	0	-5.23	-1.38	-1.34	0	0	0	0	0	0
11/24/2024 10:12	15201	SFAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 10:14	12002	HATF_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
11/24/2024 10:14	12005	HATF_T1	4	2	-2	0.2	0.25	0.05	0	0	0	0	0	0	0	0
11/24/2024 10:17	66301	MCGO_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
11/24/2024 10:17	66303	MCGO_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
11/24/2024 10:17	66302	MCGO_T2	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
11/24/2024 10:19	60605	NCOL_T2	0	1	1	0	0.5	0.5	-0.55	-0.56	0	0	0	0	0	0
11/24/2024 10:19	66303	MCGO_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
11/24/2024 10:19	66301	MCGO_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
11/24/2024 10:20	15202	SFAR_T1	0	0	0	0	0	0	-0.74	-0.79	1	1	0	1200	1200	0
11/24/2024 10:21	66302	MCGO_T2	0	0	0	0	0	0	-1.01	-0.96	0	0	0	0	0	0
11/24/2024 10:21	66303	MCGO_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
11/24/2024 10:21	44201	POIN_T1	62	75	13	0.2	0.18	-0.02	-2.05	-2	1	1	0	1200	1200	0
11/24/2024 10:28	64204	KINZ_T1	4	2	-2	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
11/24/2024 10:28	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/24/2024 10:28	64201	KINZ_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
11/24/2024 10:28	64203	KINZ_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
11/24/2024 10:28	15201	SFAR_T1	0	0	0	0	0	0	-0.86	-0.85	1	1	0	1200	1200	0
11/24/2024 10:29	22901	HARW_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 10:29	22905	HARW_T1	0	13	13	0	0.71	0.71	-0.54	-0.54	0	0	0	0	0	0
11/24/2024 10:29	22903	HARW_T1	8	10	2	0.79	1.43	0.64	0	0	0	0	0	0	0	0
11/24/2024 10:30	15201	SFAR_T1	0	0	0	0	0	0	-0.86	-0.85	1	1	0	1200	1200	0
11/24/2024 10:34	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	0.39	0.31	0	0	0	0	0	0
11/24/2024 10:35	64101	REFR_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
11/24/2024 10:41	45501	DERR_T2	0	0	0	0	0	0	-0.51	-0.53	2	2	0	1800	1800	0
11/24/2024 10:44	10801	CHHI_T1	0	5	5	0	0.22	0.22	-2.23	-2.23	3	3	0	2100	2100	0
11/24/2024 10:46	46801	HEPB_T2	2	2	0	0.55	0.6	0.05	0.55	0.55	0	0	0	0	0	0
11/24/2024 10:47	46801	HEPB_T2	2	2	0	0.55	0.6	0.05	0.55	0.55	0	0	0	0	0	0
11/24/2024 10:57	43304	WATS_T2	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
11/24/2024 10:58	44801	EDAN_T2	2	1	-1	0.6	0.1	-0.5	-2.59	-2.68	0	0	0	0	0	0
11/24/2024 10:58	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/24/2024 10:58	65601	QVIL_T2	15	12	-3	0.19	0.16	-0.03	0	0	0	0	0	0	0	0
11/24/2024 10:58	65603	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/24/2024 10:58	65602	QVIL_T2	9	8	-1	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
11/24/2024 10:59	60801	BUCK_T1	19	17	-2	0.21	0.17	-0.04	-0.1	-0.2	0	0	0	0	0	0
11/24/2024 10:59	60803	BUCK_T1	11	9	-2	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
11/24/2024 11:03	58402	MORO_T1	0	0	0	0	0	0	0.16	0.17	1	1	0	900	900	0
11/24/2024 11:03	44202	POIN_T2	0	0	0	0	0	0	-1	-1	1	1	0	1200	1200	0
11/24/2024 11:05	44201	POIN_T2	0	0	0	0	0	0	-1	-1	1	1	0	1200	1200	0
11/24/2024 11:06	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 11:08	58402	MORO_T1	0	0	0	0	0	0	0.17	0.15	1	1	0	900	900	0
11/24/2024 11:09	67001	STHI_T2	1	1	0	0.1	0.2	0.1	0.07	0.06	0	0	0	0	0	0
11/24/2024 11:13	45501	DERR_T2	0	0	0	0	0	0	-0.56	-0.58	2	2	0	1800	1800	0
11/24/2024 11:16	64502	LAVI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/24/2024 11:16	64501	LAVI_T1	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
11/24/2024 11:18	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 11:21	67401	WAKE_T2	1	5	4	0.5	0.26	-0.24	0	0	0	0	0	0	0	0
11/24/2024 11:21	67402	WAKE_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
11/24/2024 11:23	67401	WAKE_T2	1	5	4	0.5	0.26	-0.24	0	0	0	0	0	0	0	0
11/24/2024 11:23	67402	WAKE_T2	0	0	0	0	0	0	0.33	0.28	0	0	0	0	0	0
11/24/2024 11:28	20601	GRWO_T2	5	0	-5	0.46	0	-0.46	-0.22	-0.22	0	0	0	0	0	0
11/24/2024 11:32	14204	EALL_T2	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0
11/24/2024 11:33	46602	LACR_T1	0	0	0	0	0	0	-1.01	-1.19	0	0	0	0	0	0
11/24/2024 11:35	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 11:35	64101	REFR_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
11/24/2024 11:36	64101	REFR_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
11/24/2024 11:39	66504	SMAN_T2	0	1	1	0	0.5	0.5	-0.57	-0.66	0	0	0	0	0	0
11/24/2024 11:42	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 11:44	62106	ELAN_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
11/24/2024 11:45	62106	ELAN_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
11/24/2024 11:45	20601	GRWO_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
11/24/2024 11:53	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 11:54	44703	MUNC_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
11/24/2024 11:54	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 11:54	44301	BEAV_T2	0	0	0	0	0	0	-1.09	-1.11	1	1	0	600	600	0
11/24/2024 11:55	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 11:57	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 12:00	48902	FOSP_T2	0	0	0	0	0	0	-0.1	-0.16	0	0	0	0	0	0
11/24/2024 12:04	64402	LAND_T2	0	5	5	0	0.38	0.38	-0.52	-0.54	1	1	0	600	600	0
11/24/2024 12:04	64404	LAND_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/24/2024 12:05	60504	NMAN_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/24/2024 12:08	66505	SMAN_T2	0	0	0	0	0	0	0.06	-0.05	1	1	0	900	900	0
11/24/2024 12:08	66504	SMAN_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/24/2024 12:09	42503	ALTA_T2	0	0	0	0	0	0	-0.27	-0.31	0	0	0	0	0	0
11/24/2024 12:17	59003	MIFF_T1	1	1	0	0.8	0.8	0	-0.78	-0.77	0	0	0	0	0	0
11/24/2024 12:17	59002	MIFF_T1	5	5	0	0.5	0.54	0.04	0	0	0	0	0	0	0	0
11/24/2024 12:18	63601	LETO_T1	6	7	1	0.73	0.73	0	0	0	0	0	0	0	0	0
11/24/2024 12:18	63602	LETO_T1	4	3	-1	0.28	0.13	-0.15	-0.54	-0.57	0	0	0	0	0	0
11/24/2024 12:19	63601	LETO_T1	6	7	1	0.73	0.73	0	0	0	0	0	0	0	0	0
11/24/2024 12:19	64305	LINC_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
11/24/2024 12:19	58401	MORO_T1	0	0	0	0	0	0	-2.57	-2.56	2	2	0	1200	1200	0
11/24/2024 12:19	63602	LETO_T1	4	3	-1	0.28	0.13	-0.15	-0.54	-0.57	0	0	0	0	0	0
11/24/2024 12:32	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/24/2024 12:32	53903	HALI_T2	2	2	0	0.95	0.85	-0.1	0	0	0	0	0	0	0	0
11/24/2024 12:32	53901	HALI_T2	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/24/2024 12:34	52403	GRPA_T2	0	6	6	0	0.67	0.67	-0.19	-0.23	0	0	0	0	0	0
11/24/2024 12:34	52402	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/24/2024 12:36	21206	ECAR_T2	1	1	0	0	0	0	0.22	0.23	0	0	0	0	0	0
11/24/2024 12:36	21206	ECAR_T2	1	1	0	8	8.1	0.1	0	0	0	0	0	0	0	0
11/24/2024 12:36	13302	ORVI_T2	7	9	2	0.21	0.21	0	1.4	1.42	0	0	0	0	0	0
11/24/2024 12:39	52402	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/24/2024 12:39	52403	GRPA_T2	0	6	6	0	0.67	0.67	-0.23	-0.26	0	0	0	0	0	0
11/24/2024 12:41	61701	ELIZ_T1	1	2	1	4.6	2.7	-1.9	-0.39	-0.41	0	0	0	0	0	0
11/24/2024 12:42	61803	EELI_T2	0	0	0	0	0	0	0.08	0.08	1	1	0	600	600	0
11/24/2024 12:42	60801	BUCK_T1	34	40	6	0.28	0.31	0.03	-0.2	-0.19	0	0	0	0	0	0
11/24/2024 12:42	60803	BUCK_T1	15	17	2	0.35	0.34	-0.01	0	0	0	0	0	0	0	0
11/24/2024 12:42	61801	EELI_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
11/24/2024 12:45	60803	BUCK_T1	16	15	-1	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
11/24/2024 12:45	60801	BUCK_T1	40	31	-9	0.3	0.24	-0.06	-0.2	-0.19	0	0	0	0	0	0
11/24/2024 12:45	64402	LAND_T2	2	1	-1	0.25	0.2	-0.05	-0.61	-0.6	1	1	0	600	600	0
11/24/2024 12:45	64404	LAND_T2	5	2	-3	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/24/2024 12:49	65503	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 12:49	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 12:50	43202	MVIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
11/24/2024 12:50	43201	MVIL_T2	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
11/24/2024 12:53	46506	LOHA_T1	3	3	0	2.7	2.83	0.13	0	0	0	0	0	0	0	0
11/24/2024 12:53	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 12:53	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
11/24/2024 12:54	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 12:58	60201	ATGL_T2	0	0	0	0	0	0	0.51	0.48	0	0	0	0	0	0
11/24/2024 13:02	65503	MOJO_T2	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
11/24/2024 13:03	65503	MOJO_T2	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
11/24/2024 13:04	62102	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/24/2024 13:04	62105	ELAN_T1	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
11/24/2024 13:04	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 13:05	60504	NMAN_T2	3	2	-1	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
11/24/2024 13:05	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 13:07	51202	MTON_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
11/24/2024 13:09	60504	NMAN_T2	3	2	-1	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
11/24/2024 13:09	60502	NMAN_T2	0	0	0	0	0	0	-0.56	-0.59	0	0	0	0	0	0
11/24/2024 13:16	52403	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/24/2024 13:16	52402	GRPA_T2	0	1	1	0	0.1	0.1	-1.02	-1	0	0	0	0	0	0
11/24/2024 13:19	64101	REFR_T1	0	0	0	0	0	0	0.11	0.07	0	0	0	0	0	0
11/24/2024 13:24	16302	ALPA_T2	0	0	0	0	0	0	-1.78	-1.76	0	0	0	0	0	0
11/24/2024 13:26	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 13:26	24101	EHAZ_T1	25	18	-7	0.58	0	-0.58	0	0	0	0	0	0	0	0
11/24/2024 13:26	24105	EHAZ_T1	6	11	5	4.77	2.9	-1.87	0	0	0	0	0	0	0	0
11/24/2024 13:26	24102	EHAZ_T1	5	5	0	1	0.7	-0.3	0	0.08	0	0	0	0	0	0
11/24/2024 13:26	16302	ALPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 13:28	10805	CHHI_T2	1	1	0	8.3	7.8	-0.5	-1.68	-1.69	1	1	0	600	600	0
11/24/2024 13:28	16302	ALPA_T2	0	0	0	0	0	0	-1.78	-1.76	0	0	0	0	0	0
11/24/2024 13:34	63501	HEID_TBK1-2	1	7	6	1.1	0.26	-0.84	0.66	0.61	0	0	0	0	0	0
11/24/2024 13:43	54501	ENOL_T2	0	0	0	0	0	0	-0.53	-0.56	1	1	0	600	600	0
11/24/2024 13:43	60101	COCA_T1	1	0	-1	0.1	0	-0.1	0.19	0.2	0	0	0	0	0	0
11/24/2024 14:02	42902	MIDD_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
11/24/2024 14:03	42902	MIDD_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
11/24/2024 14:03	52403	GRPA_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
11/24/2024 14:06	42902	MIDD_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
11/24/2024 14:14	44504	HAMI_T2	0	0	0	0	0	0	-1.32	-1.34	0	0	0	0	0	0
11/24/2024 14:14	44502	HAMI_T2	1	1	0	2.8	2.7	-0.1	0	0	0	0	0	0	0	0
11/24/2024 14:18	12005	HATF_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
11/24/2024 14:18	12006	HATF_T1	0	0	0	0	0	0	0.26	0.34	0	0	0	0	0	0
11/24/2024 14:33	58202	NEWV_T1	2	8	6	0.25	0.64	0.39	-0.24	-0.29	0	0	0	0	0	0
11/24/2024 14:34	58401	MORO_T1	0	0	0	0	0	0	-1.24	-1.28	1	1	0	600	600	0
11/24/2024 14:36	58401	MORO_T1	0	0	0	0	0	0	-1.24	-1.28	1	1	0	600	600	0
11/24/2024 14:48	58202	NEWV_T1	7	8	1	0.53	0.73	0.2	-0.15	-0.19	0	0	0	0	0	0
11/24/2024 14:51	60502	NMAN_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
11/24/2024 14:52	60502	NMAN_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
11/24/2024 14:56	66301	MCGO_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
11/24/2024 14:56	66303	MCGO_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/24/2024 15:22	14601	SWHI_T1	0	0	0	0	0	0	-0.86	-0.83	0	0	0	0	0	0
11/24/2024 15:26	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 16:03	64701	LITI_T1	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0
11/24/2024 17:24	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 17:24	67702	WERN_T2	1	4	3	0.6	1.5	0.9	0	0	0	0	0	0	0	0
11/24/2024 18:20	27605	PIRI_T2	0	0	0	0	0	0	-0.71	-0.67	1	1	0	900	900	0
11/24/2024 18:24	46506	LOHA_T1	4	4	0	2.13	2.23	0.1	0	0	0	0	0	0	0	0
11/24/2024 18:24	46501	LOHA_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
11/24/2024 18:24	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
11/24/2024 18:28	46602	LACR_T1	0	0	0	0	0	0	-1.19	-1.21	0	0	0	0	0	0
11/24/2024 18:31	24102	EHAZ_T1	7	5	-2	0.5	0.93	0.43	0.04	0.01	0	0	0	0	0	0
11/24/2024 18:31	24101	EHAZ_T1	13	22	9	0.82	1.2	0.38	0	0	0	0	0	0	0	0
11/24/2024 18:31	24105	EHAZ_T1	4	4	0	6.6	6.45	-0.15	0	0	0	0	0	0	0	0
11/24/2024 18:33	42201	SHEN_T2	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
11/24/2024 18:33	42202	SHEN_T2	85	114	29	0.75	0.86	0.11	0	0	0	0	0	0	0	0
11/24/2024 18:36	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:37	45701	LIND_T2	0	0	0	0	0	0	-1.76	-1.78	0	0	0	0	0	0
11/24/2024 18:37	45702	LIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/24/2024 18:38	27603	PIRI_T2	0	0	0	0	0	0	-1.87	-1.89	2	2	0	1800	1800	0
11/24/2024 18:38	15201	SFAR_T1	0	0	0	0	0	0	-0.9	-0.92	2	2	0	1800	1800	0
11/24/2024 18:38	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:38	16302	ALPA_T2	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
11/24/2024 18:38	42503	ALTA_T2	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
11/24/2024 18:38	14204	EALL_T2	0	0	0	0	0	0	0.12	0.06	0	0	0	0	0	0
11/24/2024 18:38	61701	ELIZ_T1	1	1	0	4.2	4.6	0.4	0.02	0.49	0	0	0	0	0	0
11/24/2024 18:38	15203	SFAR_T2	0	0	0	0	0	0	-1.31	-1.29	0	0	0	0	0	0
11/24/2024 18:38	20601	GRWO_T2	1	0	-1	0.6	0	-0.6	-0.22	-0.22	0	0	0	0	0	0
11/24/2024 18:38	45501	DERR_T2	0	2	2	0	0.2	0.2	-0.78	-0.73	2	2	0	1800	1800	0
11/24/2024 18:38	44301	BEAV_T2	8	1	-7	0.65	0	-0.65	-1.66	-1.66	1	1	0	600	600	0
11/24/2024 18:38	10602	BLGL_T2	1	1	0	9.5	8.9	-0.6	0.12	0.11	0	0	0	0	0	0
11/24/2024 18:39	46801	HEPB_T2	2	2	0	0.2	0.45	0.25	0.59	0.57	0	0	0	0	0	0
11/24/2024 18:39	45501	DERR_T2	0	2	2	0	0.2	0.2	-0.78	-0.73	2	2	0	1800	1800	0
11/24/2024 18:39	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:40	22901	HARW_T1	9	9	0	0.6	0.28	-0.32	0	0	0	0	0	0	0	0
11/24/2024 18:40	16302	ALPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:40	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:40	22903	HARW_T1	1	3	2	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/24/2024 18:40	10805	CHHI_T2	1	1	0	7.8	7.5	-0.3	-1.68	-1.66	1	1	0	600	600	0
11/24/2024 18:40	22905	HARW_T1	47	56	9	1.07	1.23	0.16	-0.38	-0.41	0	0	0	0	0	0
11/24/2024 18:40	42202	SHEN_T2	85	114	29	0.75	0.86	0.11	0	0	0	0	0	0	0	0
11/24/2024 18:40	15201	SFAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:40	44202	POIN_T2	0	0	0	0	0	0	-0.99	-0.99	1	1	0	1200	1200	0
11/24/2024 18:40	14601	SWHI_T1	0	0	0	0	0	0	-0.84	-0.82	0	0	0	0	0	0
11/24/2024 18:40	44203	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:40	42201	SHEN_T2	0	0	0	0	0	0	0.74	0.73	0	0	0	0	0	0
11/24/2024 18:41	63602	LETO_T1	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
11/24/2024 18:42	48902	FOSP_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
11/24/2024 18:42	15203	SFAR_T2	0	0	0	0	0	0	-1.31	-1.29	0	0	0	0	0	0
11/24/2024 18:42	15201	SFAR_T1	0	0	0	0	0	0	-0.9	-0.92	2	2	0	1800	1800	0
11/24/2024 18:42	16302	ALPA_T2	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
11/24/2024 18:42	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:42	64501	LAVI_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
11/24/2024 18:43	63501	HEID_TBK1-2	34	37	3	0.24	0.36	0.12	-0.62	-0.6	1	1	0	900	900	0
11/24/2024 18:44	12006	HATF_T1	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
11/24/2024 18:44	64101	REFR_T1	0	0	0	0	0	0	-0.09	-0.13	0	0	0	0	0	0
11/24/2024 18:44	43304	WATS_T2	0	2	2	0	0	0	-0.63	-0.64	0	0	0	0	0	0
11/24/2024 18:44	66504	SMAN_T2	0	0	0	0	0	0	-1.33	-1.29	0	0	0	0	0	0
11/24/2024 18:44	12005	HATF_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/24/2024 18:44	42903	MIDD_T2	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
11/24/2024 18:44	66505	SMAN_T2	3	3	0	0.53	0.33	-0.2	0	0	0	0	0	0	0	0
11/24/2024 18:44	12002	HATF_T1	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
11/24/2024 18:44	42902	MIDD_T2	0	0	0	0	0	0	-0.61	-0.65	0	0	0	0	0	0
11/24/2024 18:44	65603	QVIL_T2	0	0	0	0	0	0	0.01	-0.04	0	0	0	0	0	0
11/24/2024 18:44	16302	ALPA_T2	0	0	0	0	0	0	-1.66	-1.68	0	0	0	0	0	0
11/24/2024 18:44	13303	ORVI_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
11/24/2024 18:44	67401	WAKE_T2	0	0	0	0	0	0	-1.22	-1.22	0	0	0	0	0	0
11/24/2024 18:45	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:45	54505	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:45	62106	ELAN_T1	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
11/24/2024 18:45	44801	EDAN_T2	0	1	1	0	0.6	0.6	-2.72	-2.73	0	0	0	0	0	0
11/24/2024 18:45	63602	LETO_T1	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
11/24/2024 18:45	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:45	58202	NEWV_T1	0	0	0	0	0	0	-0.68	-0.73	0	0	0	0	0	0
11/24/2024 18:45	54506	ENOL_T2	0	0	0	0	0	0	0.4	0.406	1	1	0	600	600	0
11/24/2024 18:46	15203	SFAR_T2	0	0	0	0	0	0	-1.31	-1.29	0	0	0	0	0	0
11/24/2024 18:46	42903	MIDD_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
11/24/2024 18:46	65601	QVIL_T2	0	0	0	0	0	0	-1.2	-1.23	1	1	0	900	900	0
11/24/2024 18:46	12003	HATF_T1	0	0	0	0	0	0	0.64	0.75	0	0	0	0	0	0
11/24/2024 18:46	12005	HATF_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/24/2024 18:46	42902	MIDD_T2	0	0	0	0	0	0	-0.61	-0.65	0	0	0	0	0	0
11/24/2024 18:46	60201	ATGL_T2	0	0	0	0	0	0	-0.46	-0.42	0	0	0	0	0	0
11/24/2024 18:47	64402	LAND_T2	0	0	0	0	0	0	-0.62	-0.62	1	1	0	600	600	0
11/24/2024 18:47	59003	MIFF_T1	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
11/24/2024 18:47	43201	MVIL_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
11/24/2024 18:47	60502	NMAN_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
11/24/2024 18:47	60301	TWVA_T2	0	0	0	0	0	0	-4.22	-4.2	4	4	0	3600	3600	0
11/24/2024 18:47	64701	LITI_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
11/24/2024 18:47	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:47	43202	MVIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/24/2024 18:47	60801	BUCK_T1	0	14	14	0	0.14	0.14	-0.9	-0.88	1	1	0	600	600	0
11/24/2024 18:47	60803	BUCK_T1	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/24/2024 18:48	66504	SMAN_T2	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
11/24/2024 18:48	54505	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:48	62105	ELAN_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
11/24/2024 18:48	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:48	66505	SMAN_T2	3	2	-1	0.33	0.25	-0.08	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/24/2024 18:48	66302	MCGO_T2	0	0	0	0	0	0	-0.97	-0.99	0	0	0	0	0	0
11/24/2024 18:48	60803	BUCK_T1	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/24/2024 18:48	60801	BUCK_T1	0	14	14	0	0.14	0.14	-0.9	-0.88	1	1	0	600	600	0
11/24/2024 18:48	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:48	10801	CHHI_T1	0	0	0	0	0	0	-2.18	-2.17	3	3	0	2100	2100	0
11/24/2024 18:48	54501	ENOL_T2	0	0	0	0	0	0	-0.5	-0.52	1	1	0	600	600	0
11/24/2024 18:48	63501	HEID_TBK1-2	30	36	6	0.24	0.42	0.18	-0.62	-0.6	1	1	0	900	900	0
11/24/2024 18:49	42903	MIDD_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
11/24/2024 18:49	46801	HEPB_T2	2	2	0	0.35	0.55	0.2	0.59	0.57	0	0	0	0	0	0
11/24/2024 18:49	65503	MOJO_T2	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
11/24/2024 18:49	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:49	67402	WAKE_T2	0	0	0	0	0	0	-0.47	-0.46	1	1	0	600	600	0
11/24/2024 18:49	66202	SISP_T2	0	0	0	0	0	0	-0.92	-0.89	0	0	0	0	0	0
11/24/2024 18:49	63501	HEID_TBK1-2	30	36	6	0.24	0.42	0.18	-1.23	-1.19	2	2	0	1800	1800	0
11/24/2024 18:49	42902	MIDD_T2	0	0	0	0	0	0	-0.61	-0.65	0	0	0	0	0	0
11/24/2024 18:50	44201	POIN_T1	61	71	10	0.16	0.2	0.04	-1.99	-1.99	1	1	0	1200	1200	0
11/24/2024 18:50	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:50	10801	CHHI_T1	0	0	0	0	0	0	-2.18	-2.17	3	3	0	2100	2100	0
11/24/2024 18:50	12005	HATF_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/24/2024 18:50	12002	HATF_T1	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
11/24/2024 18:50	15202	SFAR_T1	0	0	0	0	0	0	-0.78	-0.74	1	1	0	1200	1200	0
11/24/2024 18:50	62106	ELAN_T1	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
11/24/2024 18:50	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/24/2024 18:50	53902	HALI_T2	1	1	0	4.9	5.1	0.2	0	0	0	0	0	0	0	0
11/24/2024 18:50	53903	HALI_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/24/2024 18:51	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.07	0	0	0	0	0	0
11/24/2024 18:51	20601	GRWO_T2	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
11/24/2024 18:51	67401	WAKE_T2	0	0	0	0	0	0	-1.22	-1.24	0	0	0	0	0	0
11/24/2024 18:51	60801	BUCK_T1	0	14	14	0	0.14	0.14	-0.88	-0.89	1	1	0	600	600	0
11/24/2024 18:51	20603	GRWO_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
11/24/2024 18:51	60803	BUCK_T1	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/24/2024 18:51	63602	LETO_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
11/24/2024 18:52	64305	LINC_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
11/24/2024 18:52	66505	SMAN_T2	3	2	-1	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
11/24/2024 18:52	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:52	52402	GRPA_T2	2	2	0	0.6	0	-0.6	-0.81	-0.86	0	0	0	0	0	0
11/24/2024 18:53	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.07	0	0	0	0	0	0
11/24/2024 18:53	44203	POIN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/24/2024 18:53	64402	LAND_T2	0	0	0	0	0	0	-0.62	-0.61	1	1	0	600	600	0
11/24/2024 18:53	66301	MCGO_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
11/24/2024 18:53	66505	SMAN_T2	3	2	-1	0.33	0.25	-0.08	-0.54	-0.43	1	1	0	900	900	0
11/24/2024 18:53	44202	POIN_T2	0	0	0	0	0	0	-0.99	-1.01	1	1	0	1200	1200	0
11/24/2024 18:53	60502	NMAN_T2	0	0	0	0	0	0	-1.66	-1.65	0	0	0	0	0	0
11/24/2024 18:54	13303	ORVI_T1	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
11/24/2024 18:54	58202	NEWV_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
11/24/2024 18:54	64802	MONE_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
11/24/2024 18:54	67402	WAKE_T2	0	0	0	0	0	0	-0.91	-0.94	2	2	0	1200	1200	0
11/24/2024 18:55	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.16	1	1	0	600	600	0
11/24/2024 18:55	65503	MOJO_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
11/24/2024 18:55	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.07	0	0	0	0	0	0
11/24/2024 18:55	66302	MCGO_T2	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
11/24/2024 18:55	58402	MORO_T1	1	0	-1	0.2	0	-0.2	-0.03	-0.05	2	2	0	1200	1200	0
11/24/2024 18:56	65603	QVIL_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
11/24/2024 18:56	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:56	67001	STHI_T2	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
11/24/2024 18:56	63501	HEID_TBK1-2	30	36	6	0.24	0.42	0.18	-0.6	-0.62	1	1	0	900	900	0
11/24/2024 18:56	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.16	1	1	0	600	600	0
11/24/2024 18:56	58402	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/24/2024 18:57	60605	NCOL_T2	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
11/24/2024 18:57	64203	KINZ_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
11/24/2024 18:57	64101	REFR_T1	0	0	0	0	0	0	-0.26	-0.14	0	0	0	0	0	0
11/24/2024 18:57	64201	KINZ_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/24/2024 18:57	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/24/2024 18:57	64204	KINZ_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
11/24/2024 18:57	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:58	63602	LETO_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
11/24/2024 18:58	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.07	0	0	0	0	0	0
11/24/2024 18:58	58402	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/24/2024 18:58	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 18:58	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.16	1	1	0	600	600	0
11/24/2024 18:59	58402	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/24/2024 18:59	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.16	1	1	0	600	600	0
11/24/2024 18:59	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.07	0	0	0	0	0	0
11/24/2024 19:00	65603	QVIL_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
11/24/2024 19:01	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 19:01	63501	HEID_TBK1-2	34	36	2	0.36	0.43	0.07	-0.6	-0.62	1	1	0	900	900	0
11/24/2024 19:01	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2024 19:02	66505	SMAN_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
11/24/2024 19:02	66504	SMAN_T2	0	0	0	0	0	0	-0.65	-0.6	0	0	0	0	0	0
11/24/2024 19:03	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.57	1	1	0	900	900	0
11/24/2024 19:05	46803	HEPB_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
11/24/2024 19:05	46801	HEPB_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
11/24/2024 19:10	43304	WATS_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/24/2024 19:31	51202	MTON_T2	0	0	0	0	0	0	-1.08	-1.08	1	1	0	1200	1200	0
11/24/2024 19:34	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.08	0	0	0	0	0	0
11/24/2024 19:45	60101	COCA_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
11/24/2024 22:03	64101	REFR_T1	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
11/24/2024 22:40	52403	GRPA_T2	1	1	0	0.2	0.5	0.3	-0.28	-0.29	0	0	0	0	0	0
11/24/2024 22:40	52402	GRPA_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
11/24/2024 22:40	52401	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/25/2024 7:27	26704	HEML_T2	1	0	-1	5.9	0	-5.9	-0.76	-0.78	1	1	0	1200	1200	0
11/25/2024 7:34	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 7:41	45501	DERR_T2	5	0	-5	0.28	0	-0.28	1.09	1.01	2	2	0	1800	1800	0
11/25/2024 7:41	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 7:48	15204	SFAR_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
11/25/2024 7:51	65702	RVIL_T2	0	1	1	0	0.2	0.2	-1.06	-0.96	1	1	0	600	600	0
11/25/2024 7:52	15202	SFAR_T1	0	0	0	0	0	0	-0.8	-0.83	1	1	0	1200	1200	0
11/25/2024 7:54	55507	HERS_T1	0	17	17	0	0.34	0.34	-0.01	-0.01	0	0	0	0	0	0
11/25/2024 7:54	55501	HERS_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 7:55	61103	BERK_T5	0	0	0	0	0	0	-0.01	0.04	0	0	0	0	0	0
11/25/2024 7:56	61103	BERK_T5	0	0	0	0	0	0	-0.01	0.04	0	0	0	0	0	0
11/25/2024 7:58	10705	CATA_T2	0	0	0	0	0	0	-0.91	-0.88	1	1	0	900	900	0
11/25/2024 7:58	10702	CATA_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
11/25/2024 8:00	12006	HATF_T1	2	2	0	1	1.3	0.3	0.65	0.65	1	1	0	1200	1200	0
11/25/2024 8:05	60301	TWVA_T2	0	0	0	0	0	0	-8.12	-8.18	6	6	0	5400	5400	0
11/25/2024 8:06	14801	TREI_T2	1	1	0	0.1	0.2	0.1	0.48	0.45	0	0	0	0	0	0
11/25/2024 8:06	45301	WBER_T2	0	0	0	0	0	0	-1.55	-1.51	2	2	0	2400	2400	0
11/25/2024 8:08	14802	TREI_T2	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
11/25/2024 8:08	14801	TREI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/25/2024 8:09	58006	WCAR_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
11/25/2024 8:16	46101	MACI_T2	0	0	0	0	0	0	-0.84	-0.85	2	2	0	2400	2400	0
11/25/2024 8:18	12802	MICK_T1	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
11/25/2024 8:18	12801	MICK_T1	0	0	0	0	0	0	0.03	0.01	1	1	0	600	600	0
11/25/2024 8:18	12807	MICK_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
11/25/2024 8:18	12803	MICK_T1	1	1	0	1.6	0.9	-0.7	0	0	0	0	0	0	0	0
11/25/2024 8:19	55002	NEWP_T1	4	6	2	0.53	0.85	0.32	-0.19	-0.18	0	0	0	0	0	0
11/25/2024 8:19	66902	SHIL_T2	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
11/25/2024 8:19	66901	SHIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/25/2024 8:20	59101	WALK_T2	0	0	0	0	0	0	1.97	2.33	1	0	-1	600	0	-600
11/25/2024 8:22	65702	RVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 8:24	59101	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 8:25	59101	WALK_T2	0	0	0	0	0	0	2.33	2.22	0	0	0	0	0	0
11/25/2024 8:26	16302	ALPA_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
11/25/2024 8:26	14201	EALL_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
11/25/2024 8:28	45501	DERR_T2	0	0	0	0	0	0	0.88	0.87	2	2	0	1800	1800	0
11/25/2024 8:28	45502	DERR_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/25/2024 8:30	54502	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
11/25/2024 8:30	54505	ENOL_T2	1	1	0	0.4	0.7	0.3	-1.14	-1.21	1	1	0	600	600	0
11/25/2024 8:32	45701	LIND_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
11/25/2024 8:35	57201	ROSS_T1	10	14	4	0.2	0.21	0.01	0	0	0	0	0	0	0	0
11/25/2024 8:35	57205	ROSS_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
11/25/2024 8:36	57201	ROSS_T1	10	14	4	0.2	0.21	0.01	-0.39	-0.42	0	0	0	0	0	0
11/25/2024 8:36	57203	ROSS_T1	0	0	0	0	0	0	0.53	0.48	0	0	0	0	0	0
11/25/2024 8:37	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 8:37	65201	PRIN_T4	3	3	0	0.33	0.4	0.07	0	0	1	1	0	600	600	0
11/25/2024 8:37	24806	VALM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 8:37	57201	ROSS_T1	10	14	4	0.2	0.21	0.01	0	0	0	0	0	0	0	0
11/25/2024 8:37	57203	ROSS_T1	0	0	0	0	0	0	0.48	0.41	0	0	0	0	0	0
11/25/2024 8:37	65206	PRIN_T4	7	1	-6	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
11/25/2024 8:37	65207	PRIN_T4	2	3	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
11/25/2024 8:38	57201	ROSS_T1	10	14	4	0.2	0.21	0.01	-0.42	-0.32	0	0	0	0	0	0
11/25/2024 8:40	65207	PRIN_T4	2	3	1	0.8	0.6	-0.2	0	0	1	1	0	1200	1200	0
11/25/2024 8:40	14204	EALL_T2	0	0	0	0	0	0	0.23	0.18	0	0	0	0	0	0
11/25/2024 8:40	58003	WCAR_T1	1	1	0	0.9	1	0.1	0.73	0.69	0	0	0	0	0	0
11/25/2024 8:40	58001	WCAR_T1	3	4	1	0.57	0.93	0.36	0	0	0	0	0	0	0	0
11/25/2024 8:40	65206	PRIN_T4	7	1	-6	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
11/25/2024 8:40	65201	PRIN_T4	3	0	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
11/25/2024 8:40	15201	SFAR_T1	0	0	0	0	0	0	0.03	0.04	1	1	0	1200	1200	0
11/25/2024 8:42	14203	EALL_T1	0	0	0	0	0	0	-0.34	-0.39	1	1	0	1200	1200	0
11/25/2024 8:42	47203	FAXO_T2	1	1	0	1.1	1	-0.1	-0.32	-0.37	0	0	0	0	0	0
11/25/2024 8:44	67604	WARW_T1	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
11/25/2024 8:44	22602	KIMB_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
11/25/2024 8:44	63501	HEID_TBK1-2	1	2	1	0.3	0.15	-0.15	0.12	0.2	1	1	0	900	900	0
11/25/2024 8:44	67605	WARW_T1	13	11	-2	0.38	0.37	-0.01	0	0	0	0	0	0	0	0
11/25/2024 8:45	63501	HEID_TBK1-2	2	3	1	0.15	0.27	0.12	0.12	0.2	1	1	0	900	900	0
11/25/2024 8:45	65401	MARI_T1	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
11/25/2024 8:46	12803	MICK_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
11/25/2024 8:46	12807	MICK_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/25/2024 8:46	12802	MICK_T1	6	5	-1	0.12	0.1	-0.02	-1.14	-1.15	0	0	0	0	0	0
11/25/2024 8:46	65401	MARI_T1	0	0	0	0	0	0	0.85	0.87	0	0	0	0	0	0
11/25/2024 8:47	63501	HEID_TBK1-2	2	3	1	0.15	0.27	0.12	0.12	0.2	1	1	0	900	900	0
11/25/2024 8:48	45701	LIND_T2	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
11/25/2024 8:48	66505	SMAN_T2	2	3	1	0.3	0.53	0.23	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/25/2024 8:48	66502	SMAN_T2	2	6	4	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
11/25/2024 8:48	65401	MARI_T1	0	0	0	0	0	0	0.85	0.87	0	0	0	0	0	0
11/25/2024 8:48	66503	SMAN_T2	0	0	0	0	0	0	0.42	0.37	0	0	0	0	0	0
11/25/2024 8:48	54203	PENN_T1	18	18	0	1.07	1.18	0.11	-0.01	-0.02	0	0	0	0	0	0
11/25/2024 8:48	54201	PENN_T1	10	10	0	0.56	0.72	0.16	0	0	0	0	0	0	0	0
11/25/2024 8:49	54201	PENN_T1	10	10	0	0.56	0.72	0.16	0	0	0	0	0	0	0	0
11/25/2024 8:49	54203	PENN_T1	18	18	0	1.07	1.18	0.11	-0.01	-0.02	0	0	0	0	0	0
11/25/2024 8:49	45702	LIND_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
11/25/2024 8:50	54206	PENN_T2	0	0	0	0	0	0	0	-0.05	0	0	0	0	0	0
11/25/2024 8:51	64802	MONE_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/25/2024 8:51	64801	MONE_T2	1	1	0	0.2	0.1	-0.1	0.26	0.31	0	0	0	0	0	0
11/25/2024 8:52	59101	WALK_T2	0	0	0	0	0	0	5	4.61	0	0	0	0	0	0
11/25/2024 8:54	61103	BERK_T5	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
11/25/2024 8:54	67702	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 8:56	61103	BERK_T5	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
11/25/2024 8:56	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 8:56	40802	EXCH_T2	0	1	1	0	0.5	0.5	-0.29	-0.58	0	0	0	0	0	0
11/25/2024 8:57	61103	BERK_T5	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
11/25/2024 8:58	61103	BERK_T5	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
11/25/2024 8:59	40802	EXCH_T2	0	1	1	0	0.5	0.5	-0.57	-1.17	0	0	0	0	0	0
11/25/2024 8:59	45702	LIND_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
11/25/2024 8:59	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 9:00	66504	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/25/2024 9:00	66505	SMAN_T2	3	3	0	0.53	0.57	0.04	0.01	-0.17	1	1	0	900	900	0
11/25/2024 9:00	40504	CRES_T1	27	36	9	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
11/25/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
11/25/2024 9:00	14801	TREI_T2	2	4	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
11/25/2024 9:00	67503	WEWI_T2	1	1	0	8	8.6	0.6	0.06	-0.01	0	0	0	0	0	0
11/25/2024 9:00	66502	SMAN_T2	6	5	-1	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
11/25/2024 9:00	58001	WCAR_T1	4	4	0	0.93	0.7	-0.23	0	0	0	0	0	0	0	0
11/25/2024 9:00	59101	WALK_T2	0	0	0	0	0	0	5	4.61	0	0	0	0	0	0
11/25/2024 9:00	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 9:00	67502	WEWI_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
11/25/2024 9:00	58003	WCAR_T1	1	1	0	1	0.8	-0.2	0.69	0.75	0	0	0	0	0	0
11/25/2024 9:00	15201	SFAR_T1	0	0	0	0	0	0	0.04	-0.01	1	1	0	1200	1200	0
11/25/2024 9:00	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 9:00	14802	TREI_T2	2	1	-1	0.2	0.3	0.1	0.45	0.43	0	0	0	0	0	0
11/25/2024 9:05	41902	REED_T1	5	3	-2	0.66	0	-0.66	1.17	1.08	0	0	0	0	0	0
11/25/2024 9:06	64801	MONE_T2	1	0	-1	0.1	0	-0.1	0.31	0.28	0	0	0	0	0	0
11/25/2024 9:06	64802	MONE_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/25/2024 9:06	52501	PROG_T1	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
11/25/2024 9:08	60301	TWVA_T2	0	0	0	0	0	0	-8.18	-8.24	6	6	0	5400	5400	0
11/25/2024 9:08	61103	BERK_T5	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
11/25/2024 9:08	59101	WALK_T2	0	0	0	0	0	0	4.61	4.61	0	0	0	0	0	0
11/25/2024 9:09	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 9:09	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 9:09	57401	SPAN_T1	2	2	0	0.95	0.55	-0.4	0	0	0	0	0	0	0	0
11/25/2024 9:09	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 9:09	57403	SPAN_T1	0	0	0	0	0	0	0.13	0.08	0	0	0	0	0	0
11/25/2024 9:10	14801	TREI_T2	2	4	2	0.2	0.23	0.03	0.44	0.48	0	0	0	0	0	0
11/25/2024 9:10	45501	DERR_T2	0	0	0	0	0	0	0.89	0.88	2	2	0	1800	1800	0
11/25/2024 9:10	14802	TREI_T2	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/25/2024 9:11	40702	FFLD_T1	3	4	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
11/25/2024 9:11	40701	FFLD_T1	31	31	0	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
11/25/2024 9:11	40703	FFLD_T1	3	3	0	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
11/25/2024 9:11	45501	DERR_T2	0	0	0	0	0	0	0.89	0.88	2	2	0	1800	1800	0
11/25/2024 9:12	23901	ERMO_T2	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
11/25/2024 9:12	14203	EALL_T1	0	0	0	0	0	0	-0.22	-0.27	1	1	0	1200	1200	0
11/25/2024 9:14	14201	EALL_T1	0	0	0	0	0	0	0.51	0.57	0	0	0	0	0	0
11/25/2024 9:14	12006	HATF_T1	2	2	0	0.6	0	-0.6	0.72	0.74	1	1	0	1200	1200	0
11/25/2024 9:14	14203	EALL_T1	0	0	0	0	0	0	-0.22	-0.27	1	1	0	1200	1200	0
11/25/2024 9:15	45701	LIND_T2	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
11/25/2024 9:15	45702	LIND_T2	0	0	0	0	0	0	-0.41	-0.35	0	0	0	0	0	0
11/25/2024 9:15	40703	FFLD_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
11/25/2024 9:15	40701	FFLD_T1	0	30	30	0	0.4	0.4	0	0	0	0	0	0	0	0
11/25/2024 9:15	40702	FFLD_T1	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
11/25/2024 9:16	63501	HEID_TBK1-2	3	4	1	0.27	0.53	0.26	0.11	0.1	1	1	0	900	900	0
11/25/2024 9:17	54505	ENOL_T2	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
11/25/2024 9:17	54502	ENOL_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
11/25/2024 9:17	54506	ENOL_T2	0	0	0	0	0	0	0.27	0.36	1	1	0	600	600	0
11/25/2024 9:19	65602	QVIL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
11/25/2024 9:19	65601	QVIL_T2	0	0	0	0	0	0	-1.15	-1.15	1	1	0	900	900	0
11/25/2024 9:19	55002	NEWP_T1	7	9	2	0.89	1.08	0.19	0	0	0	0	0	0	0	0
11/25/2024 9:19	55001	NEWP_T1	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
11/25/2024 9:19	63501	HEID_TBK1-2	3	4	1	0.27	0.53	0.26	0.11	0.1	1	1	0	900	900	0
11/25/2024 9:20	43301	WATS_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/25/2024 9:20	43304	WATS_T2	0	0	0	0	0	0	-0.33	-0.38	0	0	0	0	0	0
11/25/2024 9:22	15201	SFAR_T1	0	0	0	0	0	0	0.06	0.08	1	1	0	1200	1200	0
11/25/2024 9:23	20402	ASHF_T2	4	0	-4	0.18	0	-0.18	0	0	0	0	0	0	0	0
11/25/2024 9:23	20401	ASHF_T2	6	2	-4	0.58	0.55	-0.03	0	0	0	0	0	0	0	0
11/25/2024 9:23	20403	ASHF_T2	0	0	0	0	0	0	1.03	0.98	0	0	0	0	0	0
11/25/2024 9:24	15203	SFAR_T2	0	2	2	0	0.25	0.25	-1.39	-1.35	0	0	0	0	0	0
11/25/2024 9:24	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 9:24	55002	NEWP_T1	7	9	2	0.89	1.08	0.19	-0.19	-0.21	0	0	0	0	0	0
11/25/2024 9:24	15201	SFAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 9:24	10101	ALLE_T3	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
11/25/2024 9:25	58003	WCAR_T1	1	1	0	0.7	1.4	0.7	0.73	0.75	0	0	0	0	0	0
11/25/2024 9:25	58001	WCAR_T1	4	4	0	0.53	1.33	0.8	0	0	0	0	0	0	0	0
11/25/2024 9:26	20401	ASHF_T2	6	2	-4	0.58	0.55	-0.03	0	0	0	0	0	0	0	0
11/25/2024 9:26	16302	ALPA_T2	0	1	1	0	0.4	0.4	-0.64	-0.67	0	0	0	0	0	0
11/25/2024 9:26	20403	ASHF_T2	0	0	0	0	0	0	1.03	0.98	0	0	0	0	0	0
11/25/2024 9:26	15201	SFAR_T1	0	0	0	0	0	0	0.06	0.08	1	1	0	1200	1200	0
11/25/2024 9:26	57201	ROSS_T1	0	0	0	0	0	0	-0.53	-0.52	0	0	0	0	0	0
11/25/2024 9:26	20402	ASHF_T2	4	0	-4	0.18	0	-0.18	0	0	0	0	0	0	0	0
11/25/2024 9:27	63302	GREE_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
11/25/2024 9:28	57205	ROSS_T1	0	0	0	0	0	0	0.15	0.19	0	0	0	0	0	0
11/25/2024 9:30	63501	HEID_TBK1-2	3	4	1	0.23	0.58	0.35	0.1	0.08	1	1	0	900	900	0
11/25/2024 9:31	65401	MARI_T1	0	0	0	0	0	0	0.41	0.47	0	0	0	0	0	0
11/25/2024 9:31	65402	MARI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/25/2024 9:32	65402	MARI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/25/2024 9:32	65401	MARI_T1	0	0	0	0	0	0	0.41	0.47	0	0	0	0	0	0
11/25/2024 9:33	65401	MARI_T1	0	0	0	0	0	0	0.82	0.93	0	0	0	0	0	0
11/25/2024 9:33	63501	HEID_TBK1-2	3	4	1	0.23	0.58	0.35	0.1	0.08	1	1	0	900	900	0
11/25/2024 9:33	65402	MARI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/25/2024 9:34	65402	MARI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/25/2024 9:34	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 9:35	65402	MARI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/25/2024 9:35	65401	MARI_T1	0	0	0	0	0	0	0.41	0.47	0	0	0	0	0	0
11/25/2024 9:38	53102	WTWN_T1	0	0	0	0	0	0	-1.17	-1.16	0	0	0	0	0	0
11/25/2024 9:38	57205	ROSS_T1	0	0	0	0	0	0	0.19	0.12	0	0	0	0	0	0
11/25/2024 9:40	57203	ROSS_T1	0	0	0	0	0	0	0.4	0.31	0	0	0	0	0	0
11/25/2024 9:41	44203	POIN_T2	0	0	0	0	0	0	-0.52	-0.52	2	2	0	2100	2100	0
11/25/2024 9:42	53102	WTWN_T1	0	0	0	0	0	0	-1.17	-1.16	0	0	0	0	0	0
11/25/2024 9:43	52402	GRPA_T2	1	10	9	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
11/25/2024 9:43	52403	GRPA_T2	5	19	14	0.46	0.44	-0.02	-0.08	-0.08	0	0	0	0	0	0
11/25/2024 9:43	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/25/2024 9:44	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/25/2024 9:44	52403	GRPA_T2	5	19	14	0.46	0.44	-0.02	0	0	0	0	0	0	0	0
11/25/2024 9:44	52402	GRPA_T2	1	10	9	0.2	0.19	-0.01	-0.83	-0.83	0	0	0	0	0	0
11/25/2024 9:45	47203	FAXO_T2	0	1	1	0	0.8	0.8	-0.38	-0.37	0	0	0	0	0	0
11/25/2024 9:46	12007	HATF_T1	0	0	0	0	0	0	-0.59	-0.51	3	3	0	3600	3600	0
11/25/2024 9:47	54203	PENN_T1	18	18	0	1.54	1.09	-0.45	-0.03	-0.05	0	0	0	0	0	0
11/25/2024 9:47	52403	GRPA_T2	19	9	-10	0.42	0.38	-0.04	-0.08	-0.08	0	0	0	0	0	0
11/25/2024 9:47	52402	GRPA_T2	10	2	-8	0.19	0.2	0.01	0	0	0	0	0	0	0	0
11/25/2024 9:47	54201	PENN_T1	11	10	-1	0.88	0.49	-0.39	0	0	0	0	0	0	0	0
11/25/2024 9:47	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/25/2024 9:48	63501	HEID_TBK1-2	4	5	1	0.53	0.44	-0.09	0.08	0.12	1	1	0	900	900	0
11/25/2024 9:51	64101	REFR_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
11/25/2024 9:53	54202	PENN_T2	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/25/2024 9:53	54206	PENN_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
11/25/2024 9:54	48902	FOSP_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/25/2024 9:54	48901	FOSP_T2	0	0	0	0	0	0	-0.06	-0.01	1	1	0	600	600	0
11/25/2024 9:55	48901	FOSP_T2	0	0	0	0	0	0	-0.11	-0.02	2	2	0	1200	1200	0
11/25/2024 9:55	48902	FOSP_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/25/2024 9:56	48902	FOSP_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/25/2024 9:56	15203	SFAR_T2	1	4	3	0.3	0.4	0.1	-1.37	-1.32	0	0	0	0	0	0
11/25/2024 9:56	10903	COOP_T2	1	2	1	0.2	0.3	0.1	0.06	0.11	1	1	0	600	600	0
11/25/2024 9:56	48901	FOSP_T2	0	0	0	0	0	0	-0.06	-0.01	1	1	0	600	600	0
11/25/2024 9:57	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/25/2024 9:57	48902	FOSP_T2	0	1	1	0	0.3	0.3	0.59	0.5	0	0	0	0	0	0
11/25/2024 9:57	40802	EXCH_T2	1	1	0	0.1	0.5	0.4	-0.16	0	0	0	0	0	0	0
11/25/2024 9:58	46002	BERW_T2	0	0	0	0	0	0	-0.61	-0.61	1	1	0	900	900	0
11/25/2024 9:58	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/25/2024 9:58	63804	HEMP_T1	1	1	0	6	6.3	0.3	0	0	0	0	0	0	0	0
11/25/2024 9:58	46004	BERW_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/25/2024 9:58	63802	HEMP_T1	0	0	0	0	0	0	0.26	0.19	0	0	0	0	0	0
11/25/2024 9:58	63803	HEMP_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
11/25/2024 9:58	57203	ROSS_T1	0	0	0	0	0	0	0.31	0.36	0	0	0	0	0	0
11/25/2024 9:59	57104	SPHI_T2	1	1	0	1.2	1.8	0.6	-0.16	-0.18	0	0	0	0	0	0
11/25/2024 9:59	57106	SPHI_T2	3	3	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
11/25/2024 9:59	57101	SPHI_T2	6	6	0	1.27	0.67	-0.6	0	0	0	0	0	0	0	0
11/25/2024 9:59	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/25/2024 9:59	40802	EXCH_T2	1	1	0	0.1	0.5	0.4	-0.16	0	0	0	0	0	0	0
11/25/2024 10:00	41801	GOCI_T2	1	4	3	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
11/25/2024 10:00	43504	WWIL_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
11/25/2024 10:00	43505	WWIL_T1	0	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0
11/25/2024 10:00	44505	HAMI_T2	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
11/25/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
11/25/2024 10:00	43506	WWIL_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
11/25/2024 10:00	44502	HAMI_T2	0	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0
11/25/2024 10:02	64802	MONE_T2	0	2	2	0	0.45	0.45	0.34	0.38	0	0	0	0	0	0
11/25/2024 10:03	41902	REED_T1	0	0	0	0	0	0	1.25	1.19	0	0	0	0	0	0
11/25/2024 10:03	51204	MTON_T2	0	0	0	0	0	0	-0.46	-0.44	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/25/2024 10:06	66903	SHIL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
11/25/2024 10:06	43201	MVIL_T2	1	1	0	0.1	0.1	0	-0.27	-0.25	0	0	0	0	0	0
11/25/2024 10:06	43202	MVIL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
11/25/2024 10:06	41902	REED_T1	0	0	0	0	0	0	1.19	1.27	0	0	0	0	0	0
11/25/2024 10:06	52501	PROG_T1	1	0	-1	0.2	0	-0.2	-0.56	0.46	0	1	1	0	300	300
11/25/2024 10:06	66901	SHIL_T2	0	1	1	0	0.1	0.1	-0.32	-0.34	0	0	0	0	0	0
11/25/2024 10:07	66901	SHIL_T2	0	1	1	0	0.1	0.1	-0.32	-0.34	0	0	0	0	0	0
11/25/2024 10:07	52501	PROG_T1	1	0	-1	0.2	0	-0.2	0.46	0.45	1	1	0	300	300	0
11/25/2024 10:07	66903	SHIL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
11/25/2024 10:12	46004	BERW_T2	2	0	-2	0.3	0	-0.3	-0.48	-0.45	0	0	0	0	0	0
11/25/2024 10:12	10702	CATA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/25/2024 10:12	10705	CATA_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
11/25/2024 10:12	67203	TEHI_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
11/25/2024 10:12	67201	TEHI_T1	0	2	2	0	0.1	0.1	1.21	1.24	1	1	0	900	900	0
11/25/2024 10:14	10705	CATA_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
11/25/2024 10:14	10702	CATA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/25/2024 10:14	48902	FOSP_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/25/2024 10:14	48901	FOSP_T2	0	0	0	0	0	0	-0.01	-0.05	1	1	0	600	600	0
11/25/2024 10:15	42903	MIDD_T2	0	2	2	0	1	1	0	0	0	0	0	0	0	0
11/25/2024 10:15	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
11/25/2024 10:15	42902	MIDD_T2	0	2	2	0	0.2	0.2	-0.42	-0.54	0	0	0	0	0	0
11/25/2024 10:15	53903	HALI_T2	2	3	1	1.05	1	-0.05	0	0	0	0	0	0	0	0
11/25/2024 10:15	53901	HALI_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/25/2024 10:17	60502	NMAN_T2	0	0	0	0	0	0	-0.2	-0.23	0	0	0	0	0	0
11/25/2024 10:17	64302	LINC_T2	0	0	0	0	0	0	1.07	1.09	0	0	0	0	0	0
11/25/2024 10:17	60504	NMAN_T2	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/25/2024 10:17	60501	NMAN_T2	7	1	-6	0.16	0.2	0.04	0	0	0	0	0	0	0	0
11/25/2024 10:17	64304	LINC_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
11/25/2024 10:18	13701	SCHN_T2	3	5	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/25/2024 10:18	13704	SCHN_T2	5	2	-3	0.2	0.1	-0.1	-0.39	-0.39	0	0	0	0	0	0
11/25/2024 10:19	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 10:19	47403	PENS_T1	1	4	3	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
11/25/2024 10:19	42903	MIDD_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 10:19	47402	PENS_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
11/25/2024 10:19	47401	PENS_T1	2	6	4	0.4	0.78	0.38	0.15	0.22	0	0	0	0	0	0
11/25/2024 10:19	66501	SMAN_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
11/25/2024 10:19	66505	SMAN_T2	3	0	-3	0.47	0	-0.47	0.05	0.11	1	1	0	900	900	0
11/25/2024 10:19	42902	MIDD_T2	3	8	5	0.17	0.29	0.12	0	0	0	0	0	0	0	0
11/25/2024 10:19	60501	NMAN_T2	7	1	-6	0.16	0.2	0.04	0	0	0	0	0	0	0	0
11/25/2024 10:19	66504	SMAN_T2	3	4	1	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
11/25/2024 10:19	66502	SMAN_T2	15	3	-12	0.26	0.27	0.01	0	0	0	0	0	0	0	0
11/25/2024 10:19	60504	NMAN_T2	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/25/2024 10:21	66505	SMAN_T2	3	0	-3	0.47	0	-0.47	0.11	0.15	1	1	0	900	900	0
11/25/2024 10:21	66501	SMAN_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
11/25/2024 10:21	66504	SMAN_T2	3	4	1	0.43	0.38	-0.05	-1.04	-1.07	0	0	0	0	0	0
11/25/2024 10:21	66502	SMAN_T2	15	3	-12	0.26	0.27	0.01	0	0	0	0	0	0	0	0
11/25/2024 10:21	66503	SMAN_T2	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
11/25/2024 10:22	66502	SMAN_T2	15	3	-12	0.26	0.27	0.01	1.12	1.21	0	0	0	0	0	0
11/25/2024 10:22	66501	SMAN_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
11/25/2024 10:22	66504	SMAN_T2	3	4	1	0.43	0.38	-0.05	-2.09	-2.13	0	0	0	0	0	0
11/25/2024 10:22	13701	SCHN_T2	3	5	2	0.1	0.2	0.1	-0.06	-0.05	1	1	0	600	600	0
11/25/2024 10:22	66505	SMAN_T2	3	0	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
11/25/2024 10:22	13704	SCHN_T2	5	2	-3	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/25/2024 10:23	42701	AUGU_T1	0	1	1	0	0.2	0.2	0	0	2	2	0	1800	1800	0
11/25/2024 10:23	66501	SMAN_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
11/25/2024 10:23	66503	SMAN_T2	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
11/25/2024 10:23	58003	WCAR_T1	1	3	2	1	0.63	-0.37	1.47	1.52	0	0	0	0	0	0
11/25/2024 10:23	66504	SMAN_T2	3	4	1	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
11/25/2024 10:23	66505	SMAN_T2	3	0	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
11/25/2024 10:23	66502	SMAN_T2	15	3	-12	0.26	0.27	0.01	0.28	0.3	0	0	0	0	0	0
11/25/2024 10:23	58001	WCAR_T1	4	4	0	1.03	1.5	0.47	0	0	0	0	0	0	0	0
11/25/2024 10:24	66502	SMAN_T2	15	3	-12	0.26	0.27	0.01	0.84	0.91	0	0	0	0	0	0
11/25/2024 10:24	66504	SMAN_T2	3	4	1	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
11/25/2024 10:24	16102	BING_T2	0	0	0	0	0	0	-0.09	-0.14	0	0	0	0	0	0
11/25/2024 10:24	66501	SMAN_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
11/25/2024 10:24	66505	SMAN_T2	3	0	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
11/25/2024 10:26	15203	SFAR_T2	4	3	-1	0.38	0.43	0.05	-1.36	-1.37	0	0	0	0	0	0
11/25/2024 10:28	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/25/2024 10:28	54505	ENOL_T2	1	2	1	0.7	0.75	0.05	0	0	0	0	0	0	0	0
11/25/2024 10:28	54504	ENOL_T2	0	0	0	0	0	0	-1.1	-1.08	1	1	0	600	600	0
11/25/2024 10:28	54501	ENOL_T2	0	1	1	0	0.1	0.1	0.11	0.12	0	0	0	0	0	0
11/25/2024 10:28	10801	CHHI_T1	2	5	3	0.4	0.38	-0.02	-1.79	-1.84	2	2	0	1800	1800	0
11/25/2024 10:29	57702	PAXT_T1	0	1	1	0	0.1	0.1	0.01	-0.01	0	0	0	0	0	0
11/25/2024 10:29	40801	EXCH_T2	0	4	4	0	0.13	0.13	-0.52	-0.52	1	1	0	1200	1200	0
11/25/2024 10:29	40802	EXCH_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
11/25/2024 10:31	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 10:36	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 10:36	66501	SMAN_T2	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
11/25/2024 10:36	66504	SMAN_T2	2	4	2	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
11/25/2024 10:36	66502	SMAN_T2	3	3	0	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
11/25/2024 10:37	66502	SMAN_T2	3	3	0	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
11/25/2024 10:37	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 10:37	66504	SMAN_T2	2	4	2	0.4	0.38	-0.02	-0.53	-0.47	0	0	0	0	0	0
11/25/2024 10:37	66501	SMAN_T2	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
11/25/2024 10:40	11303	EMMA_T1	2	3	1	1.1	0.83	-0.27	0	0	0	0	0	0	0	0
11/25/2024 10:40	44801	EDAN_T2	3	5	2	0.43	0.46	0.03	-1.29	-1.28	0	0	0	0	0	0
11/25/2024 10:40	11301	EMMA_T1	0	0	0	0	0	0	-0.72	-0.81	0	0	0	0	0	0
11/25/2024 10:42	11303	EMMA_T1	2	3	1	1.1	0.83	-0.27	0	0	0	0	0	0	0	0
11/25/2024 10:42	57201	ROSS_T1	0	10	10	0	0.11	0.11	0	0	0	0	0	0	0	0
11/25/2024 10:42	57203	ROSS_T1	0	0	0	0	0	0	0.45	0.35	0	0	0	0	0	0
11/25/2024 10:42	57205	ROSS_T1	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
11/25/2024 10:42	11301	EMMA_T1	0	0	0	0	0	0	-0.72	-0.81	0	0	0	0	0	0
11/25/2024 10:42	44801	EDAN_T2	3	5	2	0.43	0.46	0.03	-1.29	-1.28	0	0	0	0	0	0
11/25/2024 10:50	13704	SCHN_T2	1	7	6	0.1	0.22	0.12	-0.82	-0.8	0	0	0	0	0	0
11/25/2024 10:50	13701	SCHN_T2	5	9	4	0.2	0.27	0.07	-0.05	-0.06	1	1	0	600	600	0
11/25/2024 10:52	42701	AUGU_T1	1	1	0	0.2	0.7	0.5	0	0	2	2	0	1800	1800	0
11/25/2024 10:52	13704	SCHN_T2	1	7	6	0.1	0.22	0.12	-0.8	-0.84	0	0	0	0	0	0
11/25/2024 10:52	13701	SCHN_T2	5	9	4	0.2	0.27	0.07	-0.06	-0.07	1	1	0	600	600	0
11/25/2024 10:54	13704	SCHN_T2	1	7	6	0.1	0.22	0.12	-0.4	-0.42	0	0	0	0	0	0
11/25/2024 10:54	13701	SCHN_T2	5	9	4	0.2	0.27	0.07	0	0	0	0	0	0	0	0
11/25/2024 10:55	42701	AUGU_T1	1	1	0	0.2	0.7	0.5	0	0	2	2	0	1800	1800	0
11/25/2024 10:56	41301	FISH_T1	3	3	0	1.53	1.93	0.4	-0.3	-0.3	0	0	0	0	0	0
11/25/2024 10:56	21204	ECAR_T2	1	5	4	0	0	0	0.24	0.29	0	0	0	0	0	0
11/25/2024 10:56	21206	ECAR_T2	2	1	-1	3.5	7.4	3.9	0	0	0	0	0	0	0	0
11/25/2024 10:56	41305	FISH_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/25/2024 10:56	42701	AUGU_T1	1	1	0	0.2	0.7	0.5	0	0	2	2	0	1800	1800	0
11/25/2024 10:57	51602	DUKE_T2	1	1	0	0.7	0.7	0	-0.27	-0.26	0	0	0	0	0	0
11/25/2024 10:57	51604	DUKE_T2	5	4	-1	0.36	0.25	-0.11	0	0	0	0	0	0	0	0
11/25/2024 10:58	13101	NHAM_T1	0	0	0	0	0	0	-2.98	-2.94	2	2	0	2400	2400	0
11/25/2024 10:58	42701	AUGU_T1	1	1	0	0.2	0.7	0.5	0	0	2	2	0	1800	1800	0
11/25/2024 10:58	10707	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 10:58	10705	CATA_T2	1	1	0	0.2	1	0.8	0.07	0.08	0	0	0	0	0	0
11/25/2024 10:58	10702	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/25/2024 11:00	51602	DUKE_T2	1	0	-1	0.7	0	-0.7	-0.54	-0.51	0	0	0	0	0	0
11/25/2024 11:00	51604	DUKE_T2	4	2	-2	0.25	0.3	0.05	0	0	0	0	0	0	0	0
11/25/2024 11:01	51602	DUKE_T2	1	0	-1	0.7	0	-0.7	-0.27	-0.26	0	0	0	0	0	0
11/25/2024 11:01	51604	DUKE_T2	4	2	-2	0.25	0.3	0.05	0	0	0	0	0	0	0	0
11/25/2024 11:03	58402	MORO_T1	0	0	0	0	0	0	0.05	0.62	2	1	-1	1500	900	-600
11/25/2024 11:04	42903	MIDD_T2	2	2	0	1.3	1.15	-0.15	0	0	0	0	0	0	0	0
11/25/2024 11:04	24702	FLND_T2	0	6	6	0	1.18	1.18	0.11	0.27	1	1	0	1200	1200	0
11/25/2024 11:04	42902	MIDD_T2	5	6	1	0.44	0.47	0.03	-0.31	-0.21	0	0	0	0	0	0
11/25/2024 11:05	50701	SMEC_T1	3	5	2	0.2	0.3	0.1	0.03	0.02	0	0	0	0	0	0
11/25/2024 11:06	14403	SSLA_T1	3	0	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
11/25/2024 11:06	58401	MORO_T1	0	0	0	0	0	0	-1.08	-1.11	1	1	0	600	600	0
11/25/2024 11:06	14404	SSLA_T1	6	2	-4	0.28	0.2	-0.08	-0.02	-0.05	0	0	0	0	0	0
11/25/2024 11:06	14402	SSLA_T1	10	0	-10	0.13	0	-0.13	0	0	0	0	0	0	0	0
11/25/2024 11:06	14401	SSLA_T1	3	1	-2	0.53	1.1	0.57	0	0	0	0	0	0	0	0
11/25/2024 11:07	50701	SMEC_T1	3	5	2	0.2	0.3	0.1	0.02	0.07	0	0	0	0	0	0
11/25/2024 11:08	14402	SSLA_T1	10	0	-10	0.13	0	-0.13	0	0	0	0	0	0	0	0
11/25/2024 11:08	15103	UPHA_T2	2	2	0	0.25	0.5	0.25	0.41	0.39	0	0	0	0	0	0
11/25/2024 11:08	14404	SSLA_T1	6	2	-4	0.28	0.2	-0.08	-0.02	-0.05	0	0	0	0	0	0
11/25/2024 11:08	14403	SSLA_T1	3	0	-3	0.43	0	-0.43	0.67	0.59	0	0	0	0	0	0
11/25/2024 11:08	14401	SSLA_T1	3	1	-2	0.53	1.1	0.57	0	0	0	0	0	0	0	0
11/25/2024 11:09	54602	SUMM_T2	16	16	0	0.43	0.58	0.15	0	0	0	0	0	0	0	0
11/25/2024 11:09	66505	SMAN_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/25/2024 11:09	54601	SUMM_T2	12	9	-3	0.61	0.77	0.16	-3.02	-3.02	2	2	0	2100	2100	0
11/25/2024 11:09	66502	SMAN_T2	1	4	3	0.2	0.25	0.05	0	0	0	0	0	0	0	0
11/25/2024 11:09	66504	SMAN_T2	1	3	2	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
11/25/2024 11:10	14403	SSLA_T1	3	0	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
11/25/2024 11:10	15103	UPHA_T2	2	2	0	0.25	0.5	0.25	0.41	0.39	0	0	0	0	0	0
11/25/2024 11:10	14401	SSLA_T1	3	1	-2	0.53	1.1	0.57	-1.1	-1.06	0	0	0	0	0	0
11/25/2024 11:10	14404	SSLA_T1	6	2	-4	0.28	0.2	-0.08	-0.02	-0.05	0	0	0	0	0	0
11/25/2024 11:10	14402	SSLA_T1	10	0	-10	0.13	0	-0.13	0	0	0	0	0	0	0	0
11/25/2024 11:11	67401	WAKE_T2	2	3	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
11/25/2024 11:11	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 11:11	54505	ENOL_T2	1	2	1	1.1	0.65	-0.45	-1.31	-1.32	1	1	0	600	600	0
11/25/2024 11:11	54502	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/25/2024 11:11	54501	ENOL_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/25/2024 11:11	23901	EFMO_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/25/2024 11:11	58006	WCAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 11:11	67402	WAKE_T2	2	1	-1	0.15	0.2	0.05	0.42	0.43	1	1	0	600	600	0
11/25/2024 11:11	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/25/2024 11:12	41801	GOCI_T2	7	67	60	0.34	0.27	-0.07	0	0	0	0	0	0	0	0
11/25/2024 11:13	26704	HEMI_T2	107	2	-105	0.43	0.1	-0.33	-0.77	-0.76	1	1	0	1200	1200	0
11/25/2024 11:13	46004	BERW_T2	0	1	1	0	0.3	0.3	-0.47	-0.51	0	0	0	0	0	0
11/25/2024 11:14	17805	GILB_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
11/25/2024 11:14	17803	GILB_T2	10	26	16	0.26	0.31	0.05	0	0	0	0	0	0	0	0
11/25/2024 11:14	21206	ECAR_T2	1	1	0	7.2	7.4	0.2	0.17	0.18	0	0	0	0	0	0
11/25/2024 11:14	45702	LIND_T2	1	8	7	0.1	0.44	0.34	-0.5	-0.48	0	0	0	0	0	0
11/25/2024 11:14	17804	GILB_T2	1	3	2	1.3	0.43	-0.87	0	0	0	0	0	0	0	0
11/25/2024 11:14	21204	ECAR_T2	1	2	1	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 11:15	64904	MILL_T1	1	2	1	0.2	0.1	-0.1	0.44	0.43	0	0	0	0	0	0
11/25/2024 11:15	46602	LACR_T1	0	6	6	0	0.57	0.57	-1.24	-1.19	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/25/2024 11:15	64901	MILL_T1	3	38	35	0.27	0.16	-0.11	0	0	0	0	0	0	0	0
11/25/2024 11:16	54505	ENOL_T2	1	2	1	1.1	0.75	-0.35	-1.31	-1.32	1	1	0	600	600	0
11/25/2024 11:16	54502	ENOL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/25/2024 11:16	46602	LACR_T1	6	7	1	0.58	0.51	-0.07	-1.24	-1.19	0	0	0	0	0	0
11/25/2024 11:16	42903	MIDD_T2	2	2	0	1.15	0.15	-1	0	0	0	0	0	0	0	0
11/25/2024 11:16	41305	FISH_T1	1	1	0	0.5	0.4	-0.1	0.16	0.15	0	0	0	0	0	0
11/25/2024 11:16	54501	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/25/2024 11:16	41301	FISH_T1	3	3	0	1.93	1.93	0	0	0	0	0	0	0	0	0
11/25/2024 11:16	42902	MIDD_T2	6	2	-4	0.47	0.45	-0.02	-0.21	-0.23	0	0	0	0	0	0
11/25/2024 11:17	22602	KIMB_T1	0	0	0	0	0	0	0.05	0.07	0	0	0	0	0	0
11/25/2024 11:17	22601	KIMB_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/25/2024 11:19	64903	MILL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/25/2024 11:19	64902	MILL_T2	1	2	1	0.3	0.35	0.05	0.26	0.19	0	0	0	0	0	0
11/25/2024 11:19	41801	GOCI_T2	11	66	55	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
11/25/2024 11:23	54502	ENOL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/25/2024 11:23	59101	WALK_T2	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
11/25/2024 11:23	59102	WALK_T2	3	3	0	0.27	0.47	0.2	0	0	0	0	0	0	0	0
11/25/2024 11:23	54505	ENOL_T2	1	2	1	1.1	0.75	-0.35	-1.32	-1.32	1	1	0	600	600	0
11/25/2024 11:23	54501	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/25/2024 11:24	45402	WBLO_T2	38	18	-20	0.22	0.26	0.04	-0.81	-0.8	0	0	0	0	0	0
11/25/2024 11:24	60803	BUCK_T1	14	16	2	0.25	0.28	0.03	0	0	0	0	0	0	0	0
11/25/2024 11:24	57201	ROSS_T1	6	36	30	0.18	0.25	0.07	0	0	0	0	0	0	0	0
11/25/2024 11:24	14704	TREX_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
11/25/2024 11:24	59102	WALK_T2	3	3	0	0.27	0.47	0.2	0	0	0	0	0	0	0	0
11/25/2024 11:24	57205	ROSS_T1	2	9	7	0.6	0.52	-0.08	0	0	0	0	0	0	0	0
11/25/2024 11:24	59101	WALK_T2	0	4	4	0	0.33	0.33	7.09	6.61	0	0	0	0	0	0
11/25/2024 11:24	57203	ROSS_T1	0	1	1	0	0.2	0.2	0.37	0.38	0	0	0	0	0	0
11/25/2024 11:24	60801	BUCK_T1	5	4	-1	0.3	0.4	0.1	0	0.01	0	0	0	0	0	0
11/25/2024 11:24	14705	TREX_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
11/25/2024 11:25	66501	SMAN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
11/25/2024 11:25	66505	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/25/2024 11:25	66502	SMAN_T2	4	5	1	0.23	0.24	0.01	0	0	0	0	0	0	0	0
11/25/2024 11:25	66504	SMAN_T2	2	2	0	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
11/25/2024 11:30	41202	KENM_T2	0	0	0	0	0	0	-0.57	0.51	0	0	0	0	0	0
11/25/2024 11:31	17802	GILB_T1	2	2	0	0.55	0.55	0	0.11	0.14	0	0	0	0	0	0
11/25/2024 11:32	46602	LACR_T1	6	5	-1	0.57	0.52	-0.05	-1.19	-1.24	0	0	0	0	0	0
11/25/2024 11:33	58401	MORO_T1	0	0	0	0	0	0	-1.08	-1.12	1	1	0	600	600	0
11/25/2024 11:35	50701	SMEC_T1	4	14	10	0.35	0.3	-0.05	0.07	0.07	0	0	0	0	0	0
11/25/2024 11:36	50701	SMEC_T1	4	14	10	0.35	0.3	-0.05	0.07	0.07	0	0	0	0	0	0
11/25/2024 11:36	43301	WATS_T2	0	2	2	0	0.25	0.25	0.17	0.21	0	0	0	0	0	0
11/25/2024 11:36	43304	WATS_T2	0	0	0	0	0	0	-0.29	-0.71	0	0	0	0	0	0
11/25/2024 11:36	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 11:39	58001	WCAR_T1	4	4	0	1.53	1.45	-0.08	0	0	0	0	0	0	0	0
11/25/2024 11:39	58003	WCAR_T1	6	2	-4	0.4	0.75	0.35	0.72	0.71	0	0	0	0	0	0
11/25/2024 11:40	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 11:40	60901	DONG_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
11/25/2024 11:40	60904	DONG_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
11/25/2024 11:40	60902	DONG_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/25/2024 11:41	43304	WATS_T2	0	0	0	0	0	0	-0.71	-0.76	0	0	0	0	0	0
11/25/2024 11:41	43301	WATS_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
11/25/2024 11:41	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 11:42	23403	HONE_T1	1	1	0	0.2	0.1	-0.1	-0.72	-0.71	0	0	0	0	0	0
11/25/2024 11:43	46004	BERW_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
11/25/2024 11:43	46002	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 11:46	53903	HALI_T2	5	7	2	0.64	0.71	0.07	-0.12	-0.14	0	0	0	0	0	0
11/25/2024 11:46	53901	HALI_T2	1	2	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
11/25/2024 11:46	53902	HALI_T2	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
11/25/2024 11:47	65005	NEFF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/25/2024 11:47	65001	NEFF_T2	0	0	0	0	0	0	0.56	0.47	0	0	0	0	0	0
11/25/2024 11:47	65003	NEFF_T2	4	8	4	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
11/25/2024 11:47	65004	NEFF_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/25/2024 11:49	64101	REFR_T1	3	3	0	0.37	0.2	-0.17	-0.26	-0.24	0	0	0	0	0	0
11/25/2024 11:50	54603	SUMM_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	900	900	0
11/25/2024 11:50	54601	SUMM_T2	9	8	-1	0.59	0.46	-0.13	0	0	0	0	0	0	0	0
11/25/2024 11:50	54602	SUMM_T2	16	8	-8	0.41	0.18	-0.23	0	0	0	0	0	0	0	0
11/25/2024 11:51	64101	REFR_T1	3	3	0	0.37	0.2	-0.17	-0.24	-0.22	0	0	0	0	0	0
11/25/2024 11:53	52403	GRPA_T2	39	37	-2	0.73	0.93	0.2	-0.06	-0.13	0	0	0	0	0	0
11/25/2024 11:53	52401	GRPA_T2	2	3	1	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
11/25/2024 11:53	52402	GRPA_T2	11	12	1	0.68	0.67	-0.01	0	0	0	0	0	0	0	0
11/25/2024 11:55	54602	SUMM_T2	16	8	-8	0.41	0.18	-0.23	0	0	0	0	0	0	0	0
11/25/2024 11:55	54603	SUMM_T2	0	0	0	0	0	0	-0.47	-0.49	1	1	0	900	900	0
11/25/2024 11:55	54601	SUMM_T2	9	8	-1	0.59	0.46	-0.13	0	0	0	0	0	0	0	0
11/25/2024 11:57	40801	EXCH_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
11/25/2024 11:57	40802	EXCH_T2	0	1	1	0	0.5	0.5	-0.07	-0.37	0	0	0	0	0	0
11/25/2024 11:57	45501	DERR_T2	1	1	0	0.2	0.1	-0.1	0.77	0.68	2	2	0	1800	1800	0
11/25/2024 11:58	57203	ROSS_T1	1	22	21	0.2	0.11	-0.09	0.37	0.36	0	0	0	0	0	0
11/25/2024 11:58	57205	ROSS_T1	9	13	4	0.52	0.52	0	0	0	0	0	0	0	0	0
11/25/2024 11:58	57201	ROSS_T1	36	80	44	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
11/25/2024 11:59	60902	DONG_T2	1	1	0	0.3	0.3	0	0.68	0.65	0	0	0	0	0	0
11/25/2024 11:59	60901	DONG_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/25/2024 11:59	60904	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 12:00	61801	EELI_T2	4	5	1	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
11/25/2024 12:03	64305	LINC_T1	1	14	13	1.1	0.29	-0.81	0.49	0.4	0	0	0	0	0	0
11/25/2024 12:03	52403	GRPA_T2	34	45	11	0.95	0.81	-0.14	-0.06	-0.13	0	0	0	0	0	0
11/25/2024 12:03	52401	GRPA_T2	3	2	-1	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
11/25/2024 12:03	52402	GRPA_T2	12	9	-3	0.67	0.59	-0.08	0	0	0	0	0	0	0	0
11/25/2024 12:06	13302	ORVI_T2	2	1	-1	0.75	1.4	0.65	1.4	1.3	0	0	0	0	0	0
11/25/2024 12:06	59102	WALK_T2	0	6	6	0	0.33	0.33	0	0	0	0	0	0	0	0
11/25/2024 12:06	59101	WALK_T2	0	1	1	0	0.8	0.8	2.39	2.31	0	0	0	0	0	0
11/25/2024 12:07	60502	NMAN_T2	1	2	1	0.1	0.25	0.15	-0.3	-0.35	0	0	0	0	0	0
11/25/2024 12:07	60504	NMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
11/25/2024 12:07	60501	NMAN_T2	5	8	3	0.12	0.15	0.03	0	0	0	0	0	0	0	0
11/25/2024 12:10	20401	ASHF_T2	4	2	-2	0.5	0.3	-0.2	-0.28	-0.3	0	0	0	0	0	0
11/25/2024 12:10	59101	WALK_T2	0	1	1	0	0.8	0.8	2.31	2.02	0	0	0	0	0	0
11/25/2024 12:10	59102	WALK_T2	0	6	6	0	0.33	0.33	0	0	0	0	0	0	0	0
11/25/2024 12:10	20403	ASHF_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
11/25/2024 12:11	55105	WERT_T1	0	0	0	0	0	0	-0.72	-0.71	1	1	0	900	900	0
11/25/2024 12:11	59102	WALK_T2	0	6	6	0	0.33	0.33	0	0	0	0	0	0	0	0
11/25/2024 12:11	59101	WALK_T2	0	1	1	0	0.8	0.8	2.31	2.02	0	0	0	0	0	0
11/25/2024 12:13	53902	HALI_T2	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 12:13	53901	HALI_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
11/25/2024 12:13	20401	ASHF_T2	4	2	-2	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
11/25/2024 12:13	20403	ASHF_T2	3	0	-3	0.17	0	-0.17	0.98	1.19	0	0	0	0	0	0
11/25/2024 12:13	53903	HALI_T2	6	8	2	0.8	0.66	-0.14	-0.11	-0.11	0	0	0	0	0	0
11/25/2024 12:14	46801	HEPB_T2	3	16	13	1.03	0.31	-0.72	0	0	0	0	0	0	0	0
11/25/2024 12:14	61803	EELI_T2	0	0	0	0	0	0	0.85	0.88	0	0	0	0	0	0
11/25/2024 12:14	53902	HALI_T2	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 12:14	14204	EALL_T2	0	0	0	0	0	0	0.2	0.28	0	0	0	0	0	0
11/25/2024 12:14	46803	HEPB_T2	4	5	1	0.2	0.18	-0.02	0.46	0.51	0	0	0	0	0	0
11/25/2024 12:14	53901	HALI_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
11/25/2024 12:14	61801	EELI_T2	4	5	1	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
11/25/2024 12:14	53903	HALI_T2	6	8	2	0.8	0.66	-0.14	-0.11	-0.11	0	0	0	0	0	0
11/25/2024 12:15	61302	EARL_T1	1	0	-1	0.4	0.4	-0.4	0	0	0	0	0	0	0	0
11/25/2024 12:15	61304	EARL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/25/2024 12:15	61303	EARL_T1	0	0	0	0	0	0	0.41	0.35	0	0	0	0	0	0
11/25/2024 12:18	64402	LAND_T2	1	0	-1	0.1	0	-0.1	-0.36	-0.31	1	1	0	600	600	0
11/25/2024 12:19	52402	GRPA_T2	6	9	3	0.67	0.59	-0.08	0	0	0	0	0	0	0	0
11/25/2024 12:19	52403	GRPA_T2	35	45	10	0.89	0.78	-0.11	-0.13	-0.17	0	0	0	0	0	0
11/25/2024 12:19	52401	GRPA_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
11/25/2024 12:24	66501	SMAN_T2	2	2	0	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
11/25/2024 12:24	66502	SMAN_T2	11	14	3	0.29	0.31	0.02	0	0	0	0	0	0	0	0
11/25/2024 12:24	66504	SMAN_T2	3	5	2	0.77	0.5	-0.27	-0.59	-0.58	0	0	0	0	0	0
11/25/2024 12:25	66502	SMAN_T2	11	14	3	0.29	0.31	0.02	0.15	0.26	0	0	0	0	0	0
11/25/2024 12:25	66504	SMAN_T2	3	5	2	0.77	0.5	-0.27	0	0	0	0	0	0	0	0
11/25/2024 12:25	66501	SMAN_T2	2	2	0	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
11/25/2024 12:26	10705	CATA_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
11/25/2024 12:26	15203	SFAR_T2	5	3	-2	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
11/25/2024 12:26	15204	SFAR_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
11/25/2024 12:26	60801	BUCK_T1	2	1	-1	0.35	0.6	0.25	-0.18	-0.21	0	0	0	0	0	0
11/25/2024 12:26	10702	CATA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/25/2024 12:27	66504	SMAN_T2	3	5	2	0.77	0.5	-0.27	0	0	0	0	0	0	0	0
11/25/2024 12:27	66501	SMAN_T2	2	2	0	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
11/25/2024 12:27	66502	SMAN_T2	11	14	3	0.29	0.31	0.02	0	0	0	0	0	0	0	0
11/25/2024 12:29	22602	KIMB_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
11/25/2024 12:29	22601	KIMB_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/25/2024 12:29	64401	LAND_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	600	600	0
11/25/2024 12:31	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
11/25/2024 12:31	46504	LOHA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/25/2024 12:31	46506	LOHA_T1	4	4	0	3.2	3.1	-0.1	0	0	0	0	0	0	0	0
11/25/2024 12:32	64403	LAND_T1	0	0	0	0	0	0	-1.39	-1.34	1	1	0	900	900	0
11/25/2024 12:36	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
11/25/2024 12:36	46504	LOHA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/25/2024 12:36	46506	LOHA_T1	4	4	0	3.2	3.1	-0.1	0	0	0	0	0	0	0	0
11/25/2024 12:37	44601	SALE_T2	0	0	0	0	0	0	0.15	0.21	0	0	0	0	0	0
11/25/2024 12:42	47203	FAXO_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
11/25/2024 12:42	42701	AUGU_T1	3	2	-1	0.37	0.5	0.13	0	0	0	0	0	0	0	0
11/25/2024 12:42	47201	FAXO_T2	0	0	0	0	0	0	-2.35	-2.37	1	1	0	1200	1200	0
11/25/2024 12:42	18001	ZION_T1	4	5	1	5	4.06	-0.94	0	0	0	0	0	0	0	0
11/25/2024 12:43	66504	SMAN_T2	5	3	-2	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
11/25/2024 12:43	66502	SMAN_T2	14	8	-6	0.31	0.24	-0.07	0	0	0	0	0	0	0	0
11/25/2024 12:43	66501	SMAN_T2	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
11/25/2024 12:45	42903	MIDD_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
11/25/2024 12:45	42902	MIDD_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
11/25/2024 12:47	42903	MIDD_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
11/25/2024 12:47	42902	MIDD_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
11/25/2024 12:48	65601	QVIL_T2	5	2	-3	0.28	0.4	0.12	0	0	0	0	0	0	0	0
11/25/2024 12:48	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 12:48	65602	QVIL_T2	38	28	-10	0.33	0.22	-0.11	0	0	0	0	0	0	0	0
11/25/2024 12:49	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 12:49	65602	QVIL_T2	38	28	-10	0.33	0.22	-0.11	0	0	0	0	0	0	0	0
11/25/2024 12:49	65601	QVIL_T2	5	2	-3	0.28	0.4	0.12	0	0	0	0	0	0	0	0
11/25/2024 12:50	42903	MIDD_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
11/25/2024 12:50	42902	MIDD_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/25/2024 12:51	23001	SAJO_T1	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
11/25/2024 12:52	65603	QVIL_T2	0	0	0	0	0	0	0.49	0.52	0	0	0	0	0	0
11/25/2024 12:52	59101	WALK_T2	0	0	0	0	0	0	2.23	1.69	0	0	0	0	0	0
11/25/2024 12:52	65601	QVIL_T2	5	2	-3	0.28	0.4	0.12	0	0	0	0	0	0	0	0
11/25/2024 12:52	14801	TREI_T2	1	1	0	0.4	0.8	0.4	0.32	0.28	0	0	0	0	0	0
11/25/2024 12:52	65602	QVIL_T2	38	28	-10	0.33	0.22	-0.11	0	0	0	0	0	0	0	0
11/25/2024 12:53	59101	WALK_T2	0	0	0	0	0	0	4.46	3.38	0	0	0	0	0	0
11/25/2024 12:57	60201	ATGL_T2	3	2	-1	0.33	0.2	-0.13	-0.14	0	0	0	0	0	0	0
11/25/2024 12:57	59101	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 13:01	46602	LACR_T1	3	1	-2	0.77	0	-0.77	-1.24	-1.23	0	0	0	0	0	0
11/25/2024 13:03	64101	REFR_T1	5	10	5	0.32	0.36	0.04	-0.14	-0.14	0	0	0	0	0	0
11/25/2024 13:05	64101	REFR_T1	5	10	5	0.32	0.36	0.04	-0.28	-0.28	0	0	0	0	0	0
11/25/2024 13:05	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 13:06	64101	REFR_T1	5	10	5	0.32	0.36	0.04	-0.42	-0.45	0	0	0	0	0	0
11/25/2024 13:06	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 13:06	67001	STHI_T2	260	300	40	0.15	0.16	0.01	0	0	0	0	0	0	0	0
11/25/2024 13:06	67002	STHI_T2	34	56	22	0.21	0.17	-0.04	1.73	1.73	0	0	0	0	0	0
11/25/2024 13:07	64101	REFR_T1	5	10	5	0.32	0.36	0.04	-0.28	-0.3	0	0	0	0	0	0
11/25/2024 13:07	67002	STHI_T2	34	56	22	0.21	0.17	-0.04	1.15	1.15	0	0	0	0	0	0
11/25/2024 13:07	67001	STHI_T2	260	300	40	0.15	0.16	0.01	0.06	0.06	0	0	0	0	0	0
11/25/2024 13:08	16101	BING_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
11/25/2024 13:08	67001	STHI_T2	260	300	40	0.15	0.16	0.01	0.06	0.06	0	0	0	0	0	0
11/25/2024 13:08	64101	REFR_T1	5	10	5	0.32	0.36	0.04	-0.14	-0.15	0	0	0	0	0	0
11/25/2024 13:08	67002	STHI_T2	34	56	22	0.21	0.17	-0.04	1.15	1.15	0	0	0	0	0	0
11/25/2024 13:09	67001	STHI_T2	260	300	40	0.15	0.16	0.01	0.06	0.06	0	0	0	0	0	0
11/25/2024 13:09	67002	STHI_T2	34	56	22	0.21	0.17	-0.04	1.73	1.73	0	0	0	0	0	0
11/25/2024 13:10	67001	STHI_T2	260	300	40	0.15	0.16	0.01	0.06	0.06	0	0	0	0	0	0
11/25/2024 13:10	67002	STHI_T2	34	56	22	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
11/25/2024 13:11	67002	STHI_T2	34	56	22	0.21	0.17	-0.04	1.15	1.15	0	0	0	0	0	0
11/25/2024 13:11	67001	STHI_T2	260	300	40	0.15	0.16	0.01	0	0	0	0	0	0	0	0
11/25/2024 13:12	16101	BING_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
11/25/2024 13:16	67203	TEHI_T1	0	0	0	0	0	0	2.36	2.45	3	3	0	2100	2100	0
11/25/2024 13:22	67402	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 13:22	67401	WAKE_T2	3	4	1	0.27	0.15	-0.12	-1.18	-1.09	0	0	0	0	0	0
11/25/2024 13:23	55002	NEWP_T1	6	6	0	1.12	1.18	0.06	-0.27	-0.26	0	0	0	0	0	0
11/25/2024 13:24	67402	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 13:24	67401	WAKE_T2	3	4	1	0.27	0.15	-0.12	-1.18	-1.09	0	0	0	0	0	0
11/25/2024 13:24	55002	NEWP_T1	6	6	0	1.12	1.18	0.06	-0.54	-0.52	0	0	0	0	0	0
11/25/2024 13:25	55002	NEWP_T1	6	6	0	1.12	1.18	0.06	-0.27	-0.26	0	0	0	0	0	0
11/25/2024 13:27	48902	FOSP_T2	2	6	4	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
11/25/2024 13:27	48901	FOSP_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
11/25/2024 13:28	48901	FOSP_T2	0	3	3	0	0.13	0.13	-0.05	-0.14	1	1	0	600	600	0
11/25/2024 13:28	48902	FOSP_T2	2	6	4	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
11/25/2024 13:30	48902	FOSP_T2	3	6	3	0.3	0.28	-0.02	0.42	0.45	0	0	0	0	0	0
11/25/2024 13:30	48901	FOSP_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/25/2024 13:33	46102	MACI_T1	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
11/25/2024 13:33	43202	MVIL_T2	1	1	0	0.8	0.5	-0.3	-0.58	-0.59	0	0	0	0	0	0
11/25/2024 13:43	46001	BERW_T1	0	0	0	0	0	0	0.93	0.95	0	0	0	0	0	0
11/25/2024 13:45	46001	BERW_T1	0	0	0	0	0	0	0.93	0.95	0	0	0	0	0	0
11/25/2024 13:52	43202	MVIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/25/2024 13:52	64101	REFR_T1	8	8	0	0.4	0.2	-0.2	-0.13	-0.16	0	0	0	0	0	0
11/25/2024 13:52	43201	MVIL_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
11/25/2024 13:55	42501	ALTA_T2	2	20	18	0.1	0.11	0.01	-1.44	-1.44	1	1	0	600	600	0
11/25/2024 13:55	55002	NEWP_T1	6	6	0	1.17	1.18	0.01	-0.24	-0.25	0	0	0	0	0	0
11/25/2024 13:55	42504	ALTA_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/25/2024 13:56	62106	ELAN_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
11/25/2024 13:56	42501	ALTA_T2	2	20	18	0.1	0.11	0.01	-1.44	-1.44	1	1	0	600	600	0
11/25/2024 13:56	42504	ALTA_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/25/2024 13:57	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 13:57	42501	ALTA_T2	2	20	18	0.1	0.11	0.01	0	0	0	0	0	0	0	0
11/25/2024 13:57	42504	ALTA_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/25/2024 13:57	42503	ALTA_T2	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
11/25/2024 13:58	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 14:00	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 14:00	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 14:00	62106	ELAN_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
11/25/2024 14:08	15203	SFAR_T2	0	1	1	0	0.1	0.1	-1.35	-1.37	0	0	0	0	0	0
11/25/2024 14:17	20603	GRWO_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
11/25/2024 14:30	62101	ELAN_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/25/2024 14:30	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/25/2024 14:30	62106	ELAN_T1	0	10	10	0	0.12	0.12	0	0	0	0	0	0	0	0
11/25/2024 14:30	62105	ELAN_T1	0	9	9	0	0.13	0.13	0.33	0.35	0	0	0	0	0	0
11/25/2024 14:31	46101	MACI_T2	0	0	0	0	0	0	-0.22	-0.21	2	2	0	2400	2400	0
11/25/2024 14:35	46101	MACI_T2	0	0	0	0	0	0	-0.11	-0.11	1	1	0	1200	1200	0
11/25/2024 14:39	20201	JERM_T1	0	0	0	0	0	0	-0.23	-0.4	2	2	0	2400	2400	0
11/25/2024 14:44	63803	HEMP_T1	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
11/25/2024 14:44	63804	HEMP_T1	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
11/25/2024 14:47	63804	HEMP_T1	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
11/25/2024 14:47	65003	NEFF_T2	7	4	-3	0.23	0.25	0.02	0	0	0	0	0	0	0	0
11/25/2024 14:47	63803	HEMP_T1	0	0	0	0	0	0	0.32	0.26	0	0	0	0	0	0
11/25/2024 14:47	45802	HEGI_T2	1	37	36	0.2	0.72	0.52	0	0	0	0	0	0	0	0
11/25/2024 14:49	65003	NEFF_T2	7	4	-3	0.23	0.25	0.02	0	0	0	0	0	0	0	0
11/25/2024 14:49	65004	NEFF_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
11/25/2024 14:50	65003	NEFF_T2	7	4	-3	0.23	0.25	0.02	-1.72	-1.72	2	2	0	1800	1800	0
11/25/2024 14:51	67106	SPRI_T2	0	0	0	0	0	0	-1.38	-1.37	1	1	0	900	900	0
11/25/2024 14:52	67106	SPRI_T2	0	0	0	0	0	0	-1.38	-1.37	1	1	0	900	900	0
11/25/2024 14:58	10702	CATA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/25/2024 14:58	10705	CATA_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
11/25/2024 15:00	63501	HEID_TBK1-2	1	1	0	1.9	1.6	-0.3	0.13	0.01	1	1	0	900	900	0
11/25/2024 15:01	63602	LETO_T1	0	0	0	0	0	0	-0.51	-0.55	0	0	0	0	0	0
11/25/2024 15:02	63602	LETO_T1	0	0	0	0	0	0	-0.51	-0.55	0	0	0	0	0	0
11/25/2024 15:03	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/25/2024 15:03	62102	ELAN_T1	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
11/25/2024 15:03	62105	ELAN_T1	5	2	-3	0.1	0.1	0	0	0	0	0	0	0	0	0
11/25/2024 15:03	62103	ELAN_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/25/2024 15:03	62106	ELAN_T1	5	1	-4	0.1	0.1	0	0	0	0	0	0	0	0	0
11/25/2024 15:04	60502	NMAN_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
11/25/2024 15:04	59003	MIFF_T1	1	1	0	0.3	0.5	0.2	-0.35	-0.47	0	0	0	0	0	0
11/25/2024 15:04	60501	NMAN_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/25/2024 15:04	59002	MIFF_T1	2	5	3	0.25	0.46	0.21	0	0	0	0	0	0	0	0
11/25/2024 15:05	59002	MIFF_T1	2	5	3	0.25	0.46	0.21	0	0	0	0	0	0	0	0
11/25/2024 15:05	59003	MIFF_T1	1	1	0	0.3	0.5	0.2	-0.35	-0.47	0	0	0	0	0	0
11/25/2024 15:06	60502	NMAN_T2	0	0	0	0	0	0	-0.68	-0.82	0	0	0	0	0	0
11/25/2024 15:06	60501	NMAN_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/25/2024 15:24	10101	ALLE_T3	2	2	0	4.5	5.25	0.75	0	0	0	0	0	0	0	0
11/25/2024 15:24	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 15:26	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 15:26	10101	ALLE_T3	2	2	0	4.5	5.25	0.75	0	0	0	0	0	0	0	0
11/25/2024 15:29	64302	LINC_T2	0	0	0	0	0	0	1.07	0.97	0	0	0	0	0	0
11/25/2024 15:29	64304	LINC_T2	1	0	-1	6.6	0	-6.6	0	0	0	0	0	0	0	0
11/25/2024 15:32	65501	MOJO_T1	0	0	0	0	0	0	-1.18	-1.19	1	1	0	900	900	0
11/25/2024 15:44	17802	GILB_T1	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
11/25/2024 15:46	10702	CATA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/25/2024 15:46	10701	CATA_T2	0	0	0	0	0	0	-0.75	-0.79	0	0	0	0	0	0
11/25/2024 16:40	42501	ALTA_T2	1	0	-1	0	0	0	-1.41	-1.43	1	1	0	600	600	0
11/25/2024 16:40	42504	ALTA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/25/2024 17:27	66502	SMAN_T2	0	0	0	0	0	0	-0.04	-0.15	0	0	0	0	0	0
11/25/2024 17:27	66505	SMAN_T2	3	3	0	0.53	0.67	0.14	0	0	0	0	0	0	0	0
11/25/2024 18:01	46002	BERW_T2	0	0	0	0	0	0	-1.13	-1.13	1	1	0	900	900	0
11/25/2024 18:01	46004	BERW_T2	1	1	0	0.3	0.1	-0.2	-0.47	-0.53	0	0	0	0	0	0
11/25/2024 18:13	46001	BERW_T1	0	0	0	0	0	0	0.66	0.7	0	0	0	0	0	0
11/25/2024 18:15	40702	FFLD_T1	0	131	131	0	0.38	0.38	0	0	0	0	0	0	0	0
11/25/2024 18:15	44203	POIN_T2	0	0	0	0	0	0	-0.98	-1.03	2	2	0	2100	2100	0
11/25/2024 18:15	40701	FFLD_T1	0	58	58	0	0.6	0.6	0	0	0	0	0	0	0	0
11/25/2024 18:15	43301	WATS_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
11/25/2024 18:15	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 18:15	40703	FFLD_T1	0	4	4	0	0.73	0.73	0	0	0	0	0	0	0	0
11/25/2024 18:16	45501	DERR_T2	0	4	4	0	0.6	0.6	0.27	0.39	2	2	0	1800	1800	0
11/25/2024 18:17	47401	PENS_T1	0	0	0	0	0	0	0.17	0.23	0	0	0	0	0	0
11/25/2024 18:18	44601	VALE_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
11/25/2024 18:18	48901	FOSP_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
11/25/2024 18:20	41202	KENM_T2	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
11/25/2024 18:20	43304	WATS_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
11/25/2024 18:20	43302	WATS_T2	4	4	0	0.28	0.43	0.15	0	0	0	0	0	0	0	0
11/25/2024 18:21	46801	HEPB_T2	33	27	-6	0.31	0.27	-0.04	0	0	0	0	0	0	0	0
11/25/2024 18:21	47203	FAKO_T2	1	1	0	0.3	0.5	0.2	-1.06	-1.07	0	0	0	0	0	0
11/25/2024 18:21	40801	EXCH_T2	2	3	1	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
11/25/2024 18:21	46803	HEPB_T2	14	8	-6	0.21	0.21	0	0.52	0.52	0	0	0	0	0	0
11/25/2024 18:21	40802	EXCH_T2	94	38	-56	0.15	0.14	-0.01	-0.97	-0.96	0	0	0	0	0	0
11/25/2024 18:22	45501	DERR_T2	0	4	4	0	0.6	0.6	0.39	0.34	2	2	0	1800	1800	0
11/25/2024 18:24	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
11/25/2024 18:24	44801	EDAN_T2	0	0	0	0	0	0	-1.34	-1.36	0	0	0	0	0	0
11/25/2024 18:24	44505	HAMI_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
11/25/2024 18:25	24702	FLND_T2	0	0	0	0	0	0	-0.29	-0.3	1	1	0	1200	1200	0
11/25/2024 18:25	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:25	55002	NEWP_T1	4	4	0	0.63	0.8	0.17	-0.26	-0.26	0	0	0	0	0	0
11/25/2024 18:26	13101	NHAM_T1	0	0	0	0	0	0	-2.48	-2.41	2	2	0	2400	2400	0
11/25/2024 18:26	42902	MIDD_T2	0	0	0	0	0	0	-1.18	-1.15	0	0	0	0	0	0
11/25/2024 18:26	67002	STHI_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
11/25/2024 18:26	45501	DERR_T2	0	4	4	0	0.6	0.6	0.39	0.34	2	2	0	1800	1800	0
11/25/2024 18:26	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/25/2024 18:26	13104	NHAM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/25/2024 18:26	14801	TREI_T2	0	1	1	0	0.1	0.1	0.47	0.42	0	0	0	0	0	0
11/25/2024 18:26	17802	GILB_T1	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
11/25/2024 18:26	42903	MIDD_T2	2	2	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
11/25/2024 18:26	13701	SCHN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:27	46001	BERW_T1	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
11/25/2024 18:27	46602	LACR_T1	5	4	-1	0.14	0.15	0.01	-1.25	-1.25	0	0	0	0	0	0
11/25/2024 18:27	64302	LINC_T2	0	0	0	0	0	0	1.08	1.06	0	0	0	0	0	0
11/25/2024 18:27	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/25/2024 18:28	14801	TREI_T2	0	1	1	0	0.1	0.1	0.47	0.42	0	0	0	0	0	0
11/25/2024 18:28	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
11/25/2024 18:28	53902	HALI_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/25/2024 18:28	42903	MIDD_T2	2	2	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
11/25/2024 18:28	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.32	0	0	0	0	0	0
11/25/2024 18:28	10705	CATA_T2	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
11/25/2024 18:28	10702	CATA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/25/2024 18:28	53903	HALI_T2	2	2	0	1.6	1.55	-0.05	-0.14	-0.12	0	0	0	0	0	0
11/25/2024 18:28	20401	ASHF_T2	3	2	-1	0.53	0.65	0.12	-0.24	-0.26	0	0	0	0	0	0
11/25/2024 18:28	42902	MIDD_T2	0	0	0	0	0	0	0	-0.57	0	0	0	0	0	0
11/25/2024 18:28	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:29	46004	BERW_T2	1	1	0	0.3	0.1	-0.2	-0.54	-0.52	0	0	0	0	0	0
11/25/2024 18:29	67002	STHI_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
11/25/2024 18:29	23001	SAJO_T1	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
11/25/2024 18:29	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/25/2024 18:29	26704	HEML_T2	0	0	0	0	0	0	-0.75	-0.75	1	1	0	1200	1200	0
11/25/2024 18:29	26702	HEML_T2	0	13	13	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:29	55002	NEWP_T1	4	4	0	0.63	0.8	0.17	-0.26	-0.26	0	0	0	0	0	0
11/25/2024 18:29	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/25/2024 18:29	48901	FOSP_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
11/25/2024 18:30	45402	WBLO_T2	0	32	32	0	0.2	0.2	-0.79	-0.8	0	0	0	0	0	0
11/25/2024 18:30	43201	MVIL_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
11/25/2024 18:30	10705	CATA_T2	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
11/25/2024 18:30	60801	BUCK_T1	0	0	0	0	0	0	-0.21	-0.25	0	0	0	0	0	0
11/25/2024 18:30	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:30	50701	SMEC_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
11/25/2024 18:30	10105	ALLE_T3	0	6	6	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:30	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:30	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/25/2024 18:30	67002	STHI_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
11/25/2024 18:30	10101	ALLE_T3	2	2	0	4.9	3.85	-1.05	0	0	0	0	0	0	0	0
11/25/2024 18:30	14401	SSLA_T1	0	0	0	0	0	0	-0.52	-0.56	0	0	0	0	0	0
11/25/2024 18:30	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:31	67106	SPRI_T2	0	0	0	0	0	0	-1.36	-1.37	1	1	0	900	900	0
11/25/2024 18:31	45701	LIND_T2	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
11/25/2024 18:31	20401	ASHF_T2	2	3	1	0.55	0.6	0.05	0	0	0	0	0	0	0	0
11/25/2024 18:31	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
11/25/2024 18:31	66901	SHIL_T2	1	1	0	0.3	0.3	0	-0.43	-0.44	0	0	0	0	0	0
11/25/2024 18:31	45702	LIND_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
11/25/2024 18:31	63602	LETO_T1	0	0	0	0	0	0	-0.49	-0.55	0	0	0	0	0	0
11/25/2024 18:32	10105	ALLE_T3	0	6	6	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:32	48901	FOSP_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
11/25/2024 18:32	41305	FISH_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
11/25/2024 18:32	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:32	67002	STHI_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
11/25/2024 18:32	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:32	67001	STHI_T2	1	1	0	0.1	0.1	0	0.05	0.05	0	0	0	0	0	0
11/25/2024 18:32	43202	MVIL_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
11/25/2024 18:32	17802	GILB_T1	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
11/25/2024 18:32	42501	ALTA_T2	0	0	0	0	0	0	-1.38	-1.39	1	1	0	600	600	0
11/25/2024 18:32	67401	WAKE_T2	0	0	0	0	0	0	-1.21	-1.18	0	0	0	0	0	0
11/25/2024 18:32	14404	SSLA_T1	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
11/25/2024 18:32	13704	SCHN_T2	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
11/25/2024 18:32	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:32	13701	SCHN_T2	0	0	0	0	0	0	-0.13	-0.14	1	1	0	600	600	0
11/25/2024 18:32	41301	FISH_T1	1	2	1	2.3	1.45	-0.85	0	0	0	0	0	0	0	0
11/25/2024 18:32	58006	WCAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:32	46101	MACI_T2	0	0	0	0	0	0	-1.15	-1.17	2	2	0	2400	2400	0
11/25/2024 18:32	10101	ALLE_T3	2	2	0	4.9	3.85	-1.05	0	0	0	0	0	0	0	0
11/25/2024 18:33	44301	BEAV_T2	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
11/25/2024 18:33	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:33	47203	FAXO_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
11/25/2024 18:33	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
11/25/2024 18:33	58003	WCAR_T1	1	1	0	1.6	1.8	0.2	0.54	0.52	0	0	0	0	0	0
11/25/2024 18:33	46506	LOHA_T1	4	4	0	2.13	2.4	0.27	0	0	0	0	0	0	0	0
11/25/2024 18:33	53903	HALI_T2	2	2	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:33	48902	FOSP_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
11/25/2024 18:33	54203	PENN_T1	18	18	0	1.31	1.47	0.16	-0.04	-0.08	1	1	0	600	600	0
11/25/2024 18:33	54201	PENN_T1	10	11	1	0.66	0.78	0.12	0	0	0	0	0	0	0	0
11/25/2024 18:33	58001	WCAR_T1	4	4	0	1.45	1.58	0.13	0	0	0	0	0	0	0	0
11/25/2024 18:33	41801	GLOC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:33	54502	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:33	53901	HALI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:33	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/25/2024 18:33	57203	ROSS_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
11/25/2024 18:33	43304	WATS_T2	0	0	0	0	0	0	-0.37	-0.46	0	0	0	0	0	0
11/25/2024 18:33	67002	STHI_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
11/25/2024 18:33	54506	ENOL_T2	0	0	0	0	0	0	0.58	0.53	1	1	0	600	600	0
11/25/2024 18:33	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
11/25/2024 18:33	41301	FISH_T1	1	2	1	2.3	1.45	-0.85	-0.33	-0.33	0	0	0	0	0	0
11/25/2024 18:33	61303	EARL_T1	0	0	0	0	0	0	0.23	0.16	0	0	0	0	0	0
11/25/2024 18:33	46504	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 18:33	47201	FAXO_T2	0	0	0	0	0	0	-2.27	-2.29	1	1	0	1200	1200	0
11/25/2024 18:33	43302	WATS_T2	1	4	3	0.1	0.43	0.33	0	0	0	0	0	0	0	0
11/25/2024 18:33	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/25/2024 18:33	44801	EDAN_T2	0	0	0	0	0	0	-1.34	-1.36	0	0	0	0	0	0
11/25/2024 18:33	52501	PROG_T1	0	0	0	0	0	0	0.42	0.42	1	1	0	300	300	0
11/25/2024 18:34	51602	DUKE_T2	0	0	0	0	0	0	-0.33	-0.3	0	0	0	0	0	0
11/25/2024 18:34	16101	BING_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
11/25/2024 18:34	14404	SSLA_T1	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
11/25/2024 18:34	14705	TREX_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
11/25/2024 18:34	16302	ALPA_T2	0	0	0	0	0	0	-0.77	-0.73	0	0	0	0	0	0
11/25/2024 18:34	42903	MIDD_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
11/25/2024 18:34	66504	SMAN_T2	3	3	0	1.23	0.87	-0.36	0	0	0	0	0	0	0	0
11/25/2024 18:34	65004	NEFF_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
11/25/2024 18:34	48902	FOSP_T2	0	0	0	0	0	0	0.15	0.11	0	0	0	0	0	0
11/25/2024 18:34	59101	WALK_T2	0	0	0	0	0	0	1.25	1.21	0	0	0	0	0	0
11/25/2024 18:34	48901	FOSP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:34	64302	LINC_T2	0	0	0	0	0	0	1.08	1.06	0	0	0	0	0	0
11/25/2024 18:34	10705	CATA_T2	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
11/25/2024 18:34	15203	SFAR_T2	0	0	0	0	0	0	-1.3	-1.32	0	0	0	0	0	0
11/25/2024 18:34	54502	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:34	42902	MIDD_T2	0	0	0	0	0	0	-1.77	-1.72	0	0	0	0	0	0
11/25/2024 18:34	14704	TREX_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
11/25/2024 18:34	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 18:34	10801	CHHI_T1	1	1	0	1.2	1.5	0.3	-0.97	-0.97	1	1	0	900	900	0
11/25/2024 18:34	54501	ENOL_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
11/25/2024 18:34	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:34	66503	SMAN_T2	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
11/25/2024 18:34	20603	GRWO_T2	10	17	7	0.24	0.21	-0.03	0.37	0.37	0	0	0	0	0	0
11/25/2024 18:34	14203	EALL_T1	0	0	0	0	0	0	-0.59	-0.56	1	1	0	1200	1200	0
11/25/2024 18:34	57205	ROSS_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
11/25/2024 18:34	15201	SFAR_T1	0	0	0	0	0	0	-0.14	-0.09	1	1	0	1200	1200	0
11/25/2024 18:34	54505	ENOL_T2	1	1	0	0.8	1	0.2	-1.35	-1.34	1	1	0	600	600	0
11/25/2024 18:35	23901	EFMO_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
11/25/2024 18:35	44502	HAMI_T2	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
11/25/2024 18:35	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/25/2024 18:35	41902	REED_T1	0	6	6	0	0	0	1.1	1.1	0	0	0	0	0	0
11/25/2024 18:35	50701	SMEC_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
11/25/2024 18:35	48901	FOSP_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
11/25/2024 18:35	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:35	44505	HAMI_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
11/25/2024 18:35	63501	HEID_TBK1-2	32	1	-31	0.32	1.2	0.88	-0.46	0.42	1	0	-1	900	0	-900
11/25/2024 18:35	42903	MIDD_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
11/25/2024 18:35	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:35	42503	ALTA_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
11/25/2024 18:35	57203	ROSS_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
11/25/2024 18:36	67001	STHI_T2	1	1	0	0.1	0.1	0	0.05	0.05	0	0	0	0	0	0
11/25/2024 18:36	43302	WATS_T2	1	4	3	0.1	0.43	0.33	0	0	0	0	0	0	0	0
11/25/2024 18:36	10105	ALLE_T3	0	6	6	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:36	50701	SMEC_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
11/25/2024 18:36	54601	SUMM_T2	13	13	0	0.95	1.07	0.12	-4.2	-4.23	2	2	0	2100	2100	0
11/25/2024 18:36	54602	SUMM_T2	15	16	1	0.83	1.14	0.31	0	0	0	0	0	0	0	0
11/25/2024 18:36	14401	SSLA_T1	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
11/25/2024 18:36	54502	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:36	54603	SUMM_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/25/2024 18:36	15103	UPHA_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
11/25/2024 18:36	59101	WALK_T2	0	0	0	0	0	0	1.25	1.21	0	0	0	0	0	0
11/25/2024 18:36	48901	FOSP_T2	0	0	0	0	0	0	0.45	0.5	0	0	0	0	0	0
11/25/2024 18:36	63501	HEID_TBK1-2	32	1	-31	0.32	1.2	0.88	0.42	0.38	1	0	-1	900	0	-900
11/25/2024 18:36	21204	ECAR_T2	3	1	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
11/25/2024 18:36	10903	COOP_T2	2	0	-2	0.1	0	-0.1	-0.39	-0.39	1	1	0	600	600	0
11/25/2024 18:36	67002	STHI_T2	0	0	0	0	0	0	1.06	1.08	0	0	0	0	0	0
11/25/2024 18:36	15203	SFAR_T2	0	0	0	0	0	0	-1.32	-1.37	0	0	0	0	0	0
11/25/2024 18:36	54504	ENOL_T2	0	0	0	0	0	0	-1.1	-1.1	1	1	0	600	600	0
11/25/2024 18:36	52501	PROG_T1	0	0	0	0	0	0	0.42	0.42	1	1	0	300	300	0
11/25/2024 18:36	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:36	46602	LACR_T1	2	4	2	0.2	0.15	-0.05	-1.25	-1.25	0	0	0	0	0	0
11/25/2024 18:36	42501	ALTA_T2	0	0	0	0	0	0	-1.39	-1.39	1	1	0	600	600	0
11/25/2024 18:36	13704	SCHN_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
11/25/2024 18:36	45702	LIND_T2	1	1	0	1	0.9	-0.1	-0.61	-0.62	0	0	0	0	0	0
11/25/2024 18:36	21206	ECAR_T2	2	2	0	3.8	3.9	0.1	0.17	0.08	0	0	0	0	0	0
11/25/2024 18:36	10101	ALLE_T3	2	2	0	4.9	3.85	-1.05	0	0	0	0	0	0	0	0
11/25/2024 18:36	58001	WCAR_T1	4	4	0	1.45	1.58	0.13	0	0	0	0	0	0	0	0
11/25/2024 18:36	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:36	57201	ROSS_T1	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
11/25/2024 18:36	62102	ELAN_T1	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
11/25/2024 18:36	16102	BING_T2	0	1	1	0	0.1	0.1	-0.21	-0.19	0	0	0	0	0	0
11/25/2024 18:36	20201	JERM_T1	0	0	0	0	0	0	-0.52	-0.57	2	2	0	2400	2400	0
11/25/2024 18:36	14204	EALL_T2	0	0	0	0	0	0	0.16	0.07	0	0	0	0	0	0
11/25/2024 18:36	15201	SFAR_T1	0	0	0	0	0	0	-0.09	-0.05	1	1	0	1200	1200	0
11/25/2024 18:36	43304	WATS_T2	0	0	0	0	0	0	-0.37	-0.46	0	0	0	0	0	0
11/25/2024 18:36	42903	MIDD_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
11/25/2024 18:36	42902	MIDD_T2	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
11/25/2024 18:36	58003	WCAR_T1	1	1	0	1.6	1.8	0.2	0.54	0.52	0	0	0	0	0	0
11/25/2024 18:37	54204	PENN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/25/2024 18:37	62105	ELAN_T1	0	0	0	0	0	0	0.37	0.4	0	0	0	0	0	0
11/25/2024 18:37	41902	REED_T1	0	6	6	0	0	0	1.1	1.08	0	0	0	0	0	0
11/25/2024 18:37	23403	HONE_T1	1	15	14	0.1	0.11	0.01	-0.75	-0.76	0	0	0	0	0	0
11/25/2024 18:37	66505	SMAN_T2	3	3	0	1.23	0.87	-0.36	-0.4	-0.41	1	1	0	900	900	0
11/25/2024 18:37	45802	HEGI_T2	21	24	3	0.43	0.48	0.05	0	0	0	0	0	0	0	0
11/25/2024 18:37	66504	SMAN_T2	0	0	0	0	0	0	-1.08	-1.11	0	0	0	0	0	0
11/25/2024 18:37	50701	SMEC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:37	42501	ALTA_T2	0	0	0	0	0	0	-1.39	-1.39	1	1	0	600	600	0
11/25/2024 18:37	54502	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:37	64101	REFR_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
11/25/2024 18:37	65001	NEFF_T2	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
11/25/2024 18:37	57702	PAXT_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/25/2024 18:37	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/25/2024 18:37	58003	WCAR_T1	1	1	0	1.6	1.8	0.2	0.52	0.51	0	0	0	0	0	0
11/25/2024 18:37	59101	WALK_T2	0	0	0	0	0	0	1.21	1.23	0	0	0	0	0	0
11/25/2024 18:37	51602	DUKE_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
11/25/2024 18:37	58001	WCAR_T1	4	4	0	1.45	1.58	0.13	0	0	0	0	0	0	0	0
11/25/2024 18:37	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/25/2024 18:37	54505	ENOL_T2	1	1	0	0.8	1	0.2	-2.68	-2.76	2	2	0	1200	1200	0
11/25/2024 18:37	54206	PENN_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
11/25/2024 18:37	45702	LIND_T2	1	1	0	1	0.9	-0.1	-0.62	-0.62	0	0	0	0	0	0
11/25/2024 18:37	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:37	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:38	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:38	53903	HALI_T2	2	2	0	1.5	1.7	0.2	-0.12	-0.14	0	0	0	0	0	0
11/25/2024 18:38	53102	WTWN_T1	0	1	1	0	0	0	-1.12	-1.14	0	0	0	0	0	0
11/25/2024 18:38	53901	HALI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:38	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/25/2024 18:38	67002	STHI_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
11/25/2024 18:38	16101	BING_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
11/25/2024 18:38	10705	CATA_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
11/25/2024 18:38	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
11/25/2024 18:38	51204	MTON_T2	0	0	0	0	0	0	-0.46	-0.49	1	1	0	600	600	0
11/25/2024 18:38	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
11/25/2024 18:38	50701	SMEC_T1	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
11/25/2024 18:38	15203	SFAR_T2	0	0	0	0	0	0	-1.32	-1.37	0	0	0	0	0	0
11/25/2024 18:38	55002	NEWP_T1	4	4	0	0.58	0.9	0.32	-0.26	-0.26	0	0	0	0	0	0
11/25/2024 18:38	53101	WTWN_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
11/25/2024 18:38	40703	FFLD_T1	4	4	0	0.73	0.78	0.05	0	0	0	0	0	0	0	0
11/25/2024 18:38	40701	FFLD_T1	58	71	13	0.6	0.61	0.01	0	0	0	0	0	0	0	0
11/25/2024 18:38	60201	ATGL_T2	0	1	1	0	0.1	0.1	-0.18	-0.2	0	0	0	0	0	0
11/25/2024 18:38	66505	SMAN_T2	3	3	0	1.23	0.87	-0.36	0	0	0	0	0	0	0	0
11/25/2024 18:38	40702	FFLD_T1	131	161	30	0.38	0.41	0.03	0	0	0	0	0	0	0	0
11/25/2024 18:38	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 18:38	15201	SFAR_T1	0	0	0	0	0	0	-0.09	-0.05	1	1	0	1200	1200	0
11/25/2024 18:39	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:39	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/25/2024 18:39	67401	WAKE_T2	0	0	0	0	0	0	-1.18	-1.19	0	0	0	0	0	0
11/25/2024 18:39	54603	SUMM_T2	1	2	1	0.1	0.2	0.1	-0.97	-0.88	2	2	0	1800	1800	0
11/25/2024 18:39	59003	MIFF_T1	1	1	0	0.8	0.3	-0.5	-0.43	0.37	0	0	0	0	0	0
11/25/2024 18:39	63501	HEID_TBK1-2	32	1	-31	0.32	1.2	0.88	0.42	0.38	0	0	0	0	0	0
11/25/2024 18:39	54602	SUMM_T2	15	16	1	0.83	1.14	0.31	0	0	0	0	0	0	0	0
11/25/2024 18:39	64802	MONE_T2	0	8	8	0	0.15	0.15	0	0	0	0	0	0	0	0
11/25/2024 18:39	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:39	66505	SMAN_T2	3	3	0	1.23	0.87	-0.36	0	0	0	0	0	0	0	0
11/25/2024 18:39	65603	QVIL_T2	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
11/25/2024 18:39	54601	SUMM_T2	13	13	0	0.95	1.07	0.12	0	0	0	0	0	0	0	0
11/25/2024 18:39	57205	ROSS_T1	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
11/25/2024 18:39	62106	ELAN_T1	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
11/25/2024 18:39	67106	SPRI_T2	0	0	0	0	0	0	-1.37	-1.36	1	1	0	900	900	0
11/25/2024 18:39	67001	STHI_T2	1	1	0	0.1	0.1	0	0.1	0.1	0	0	0	0	0	0
11/25/2024 18:39	64801	MONE_T2	0	3	3	0	0.1	0.1	0.26	0.25	0	0	0	0	0	0
11/25/2024 18:39	59002	MIFF_T1	3	1	-2	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
11/25/2024 18:39	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
11/25/2024 18:40	60502	NMAN_T2	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
11/25/2024 18:40	14204	EALL_T2	0	0	0	0	0	0	0.16	0.07	0	0	0	0	0	0
11/25/2024 18:40	60501	NMAN_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 18:40	66901	SHIL_T2	1	1	0	0.3	0.3	0	-0.44	-0.4	0	0	0	0	0	0
11/25/2024 18:40	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/25/2024 18:40	67203	TEHI_T1	0	0	0	0	0	0	2.11	2.24	2	2	0	1500	1500	0
11/25/2024 18:40	67002	STHI_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
11/25/2024 18:40	40802	EXCH_T2	12	40	28	0.12	0.14	0.02	-0.96	-0.96	0	0	0	0	0	0
11/25/2024 18:40	40801	EXCH_T2	3	3	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
11/25/2024 18:40	13701	SCHN_T2	0	0	0	0	0	0	-0.14	-0.11	1	1	0	600	600	0
11/25/2024 18:40	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
11/25/2024 18:40	66504	SMAN_T2	0	0	0	0	0	0	-1.08	-1.11	0	0	0	0	0	0
11/25/2024 18:40	12006	HATF_T1	0	0	0	0	0	0	0.25	0.3	1	1	0	1200	1200	0
11/25/2024 18:40	52501	PROG_T1	0	0	0	0	0	0	0.42	0.37	1	1	0	300	300	0
11/25/2024 18:40	66505	SMAN_T2	3	3	0	1.23	0.87	-0.36	-0.4	-0.41	1	1	0	900	900	0
11/25/2024 18:40	17804	GILB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:40	14403	SSLA_T1	0	0	0	0	0	0	0.68	0.64	0	0	0	0	0	0
11/25/2024 18:41	60301	TWVA_T2	0	0	0	0	0	0	-4.11	-4.17	4	4	0	3600	3600	0
11/25/2024 18:41	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
11/25/2024 18:41	57401	SPAN_T1	2	2	0	0.35	0.75	0.4	0	0	0	0	0	0	0	0
11/25/2024 18:41	53903	HALI_T2	2	2	0	1.5	1.7	0.2	-0.12	-0.14	0	0	0	0	0	0
11/25/2024 18:41	57203	ROSS_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
11/25/2024 18:41	40802	EXCH_T2	12	40	28	0.12	0.14	0.02	0	0	0	0	0	0	0	0
11/25/2024 18:41	65401	MARI_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
11/25/2024 18:41	46101	MACI_T2	0	0	0	0	0	0	-0.58	-0.56	1	1	0	1200	1200	0
11/25/2024 18:41	40801	EXCH_T2	3	3	0	0.23	0.3	0.07	-0.5	-0.52	1	1	0	1200	1200	0
11/25/2024 18:41	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
11/25/2024 18:41	60502	NMAN_T2	0	0	0	0	0	0	-1.32	-1.42	0	0	0	0	0	0
11/25/2024 18:41	65601	QVIL_T2	0	0	0	0	0	0	-1.25	-1.26	1	1	0	900	900	0
11/25/2024 18:41	57403	SPAN_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
11/25/2024 18:41	60501	NMAN_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 18:41	55002	NEWP_T1	4	4	0	0.58	0.9	0.32	0	0	0	0	0	0	0	0
11/25/2024 18:41	55001	NEWP_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
11/25/2024 18:41	64101	REFR_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
11/25/2024 18:41	66505	SMAN_T2	3	3	0	1.23	0.87	-0.36	0	0	0	0	0	0	0	0
11/25/2024 18:41	59101	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:41	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:41	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:41	53901	HALI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:41	64403	LAND_T1	0	0	0	0	0	0	-1.48	-1.49	1	1	0	900	900	0
11/25/2024 18:42	67002	STHI_T2	0	0	0	0	0	0	1.06	1.08	0	0	0	0	0	0
11/25/2024 18:42	66502	SMAN_T2	0	0	0	0	0	0	-0.28	-0.32	0	0	0	0	0	0
11/25/2024 18:42	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/25/2024 18:42	60902	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 18:42	58401	MORO_T1	0	0	0	0	0	0	-1.11	-1.16	1	1	0	600	600	0
11/25/2024 18:42	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
11/25/2024 18:42	63501	HEID_TBK1-2	32	1	-31	0.32	1.2	0.88	0.42	0.38	0	0	0	0	0	0
11/25/2024 18:42	57106	SPHI_T2	3	3	0	0.87	1.07	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:42	13704	SCHN_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
11/25/2024 18:42	51602	DUKE_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
11/25/2024 18:42	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:42	52402	GRPA_T2	3	3	0	0.5	0.67	0.17	-0.97	-0.98	0	0	0	0	0	0
11/25/2024 18:42	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
11/25/2024 18:42	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 18:42	64101	REFR_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
11/25/2024 18:42	64401	LAND_T1	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
11/25/2024 18:42	53902	HALI_T2	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
11/25/2024 18:42	64305	LINC_T1	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
11/25/2024 18:42	57101	SPHI_T2	6	6	0	0.13	0.22	0.09	0	0	0	0	0	0	0	0
11/25/2024 18:42	57203	ROSS_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
11/25/2024 18:42	53901	HALI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:42	66505	SMAN_T2	3	3	0	1.23	0.87	-0.36	0	0	0	0	0	0	0	0
11/25/2024 18:42	13701	SCHN_T2	0	0	0	0	0	0	-0.14	-0.11	1	1	0	600	600	0
11/25/2024 18:42	53903	HALI_T2	2	2	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:42	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:42	65401	MARI_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
11/25/2024 18:42	57104	SPHI_T2	1	2	1	1.4	1.2	-0.2	-0.19	-0.21	0	0	0	0	0	0
11/25/2024 18:42	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:42	52403	GRPA_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
11/25/2024 18:42	58003	WCAR_T1	1	1	0	1.6	1.8	0.2	1.04	1.02	0	0	0	0	0	0
11/25/2024 18:42	46102	MACI_T1	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
11/25/2024 18:42	64802	MONE_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 18:42	10801	CHHI_T1	1	1	0	1.2	1.5	0.3	-0.97	-0.96	1	1	0	900	900	0
11/25/2024 18:42	58001	WCAR_T1	4	4	0	1.45	1.58	0.13	0	0	0	0	0	0	0	0
11/25/2024 18:42	64802	MONE_T2	0	8	8	0	0.15	0.15	-0.07	-0.09	0	0	0	0	0	0
11/25/2024 18:43	46504	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 18:43	65003	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:43	60501	NMAN_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
11/25/2024 18:43	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:43	58402	MORO_T1	0	1	1	0	0	0	0.69	0.66	1	1	0	900	900	0
11/25/2024 18:43	63803	HEMP_T1	0	0	0	0	0	0	1.09	1.26	0	0	0	0	0	0
11/25/2024 18:43	46506	LOHA_T1	4	4	0	2.13	2.4	0.27	0	0	0	0	0	0	0	0
11/25/2024 18:43	58401	MORO_T1	0	0	0	0	0	0	-1.11	-1.16	1	1	0	600	600	0
11/25/2024 18:43	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
11/25/2024 18:43	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
11/25/2024 18:43	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/25/2024 18:43	55002	NEWP_T1	4	4	0	0.58	0.9	0.32	-0.26	-0.26	0	0	0	0	0	0
11/25/2024 18:43	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
11/25/2024 18:43	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:43	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
11/25/2024 18:43	20401	ASHF_T2	2	3	1	0.55	0.6	0.05	0	0	0	0	0	0	0	0
11/25/2024 18:43	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
11/25/2024 18:43	63602	LETO_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
11/25/2024 18:43	66505	SMAN_T2	3	3	0	1.23	0.87	-0.36	0	0	0	0	0	0	0	0
11/25/2024 18:44	60801	BUCK_T1	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
11/25/2024 18:44	14802	TREI_T2	0	1	1	0	0.1	0.1	0.38	0.39	0	0	0	0	0	0
11/25/2024 18:44	10701	CATA_T2	0	0	0	0	0	0	-0.82	-0.8	0	0	0	0	0	0
11/25/2024 18:44	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:44	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/25/2024 18:44	61801	EELI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:44	62106	ELAN_T1	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
11/25/2024 18:44	65401	MARI_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
11/25/2024 18:44	15103	UPHA_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
11/25/2024 18:44	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
11/25/2024 18:44	63501	HEID_TBK1-2	32	1	-31	0.32	1.2	0.88	0.42	0.38	0	0	0	0	0	0
11/25/2024 18:44	14801	TREI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/25/2024 18:44	64101	REFR_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
11/25/2024 18:44	66505	SMAN_T2	3	3	0	1.23	0.87	-0.36	0	0	0	0	0	0	0	0
11/25/2024 18:45	64101	REFR_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
11/25/2024 18:45	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:45	59003	MIFF_T1	1	1	0	0.3	0.2	-0.1	-0.43	0.37	0	0	0	0	0	0
11/25/2024 18:45	66505	SMAN_T2	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0	0
11/25/2024 18:45	59002	MIFF_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/25/2024 18:45	65401	MARI_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
11/25/2024 18:45	43505	WWIL_T1	0	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0
11/25/2024 18:45	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:45	43506	WWIL_T1	0	4	4	0	0.68	0.68	0	0	0	0	0	0	0	0
11/25/2024 18:45	43504	WWIL_T1	0	2	2	0	0.4	0.4	0.57	0.58	0	0	0	0	0	0
11/25/2024 18:46	11301	EMMA_T1	0	0	0	0	0	0	-0.83	-0.87	0	0	0	0	0	0
11/25/2024 18:46	65401	MARI_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
11/25/2024 18:46	66503	SMAN_T2	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
11/25/2024 18:46	63803	HEMP_T1	0	0	0	0	0	0	0.54	0.63	0	0	0	0	0	0
11/25/2024 18:46	66505	SMAN_T2	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0	0
11/25/2024 18:46	65003	NEFF_T2	0	4	4	0	0.28	0.28	-1.6	-1.79	2	2	0	1800	1800	0
11/25/2024 18:46	63804	HEMP_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
11/25/2024 18:46	18001	ZION_T1	2	2	0	8.5	8.7	0.2	0	0	0	0	0	0	0	0
11/25/2024 18:46	64902	MILL_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
11/25/2024 18:46	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:46	14203	EALL_T1	0	0	0	0	0	0	-0.56	-0.54	1	1	0	1200	1200	0
11/25/2024 18:46	64101	REFR_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
11/25/2024 18:46	66502	SMAN_T2	0	0	0	0	0	0	-0.28	-0.32	0	0	0	0	0	0
11/25/2024 18:47	65501	MOJO_T1	0	0	0	0	0	0	-1.21	-1.24	1	1	0	900	900	0
11/25/2024 18:47	64402	LAND_T2	0	0	0	0	0	0	-0.41	-0.39	1	1	0	600	600	0
11/25/2024 18:47	55105	WERT_T1	0	0	0	0	0	0	-0.63	-0.65	1	1	0	900	900	0
11/25/2024 18:47	64101	REFR_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
11/25/2024 18:48	63802	HEMP_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
11/25/2024 18:48	63804	HEMP_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
11/25/2024 18:48	65503	MOJO_T2	0	53	53	0	0.11	0.11	0	0	0	0	0	0	0	0
11/25/2024 18:48	67203	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:48	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:48	64101	REFR_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
11/25/2024 18:48	67201	TEHI_T1	0	0	0	0	0	0	0.16	0.16	1	1	0	900	900	0
11/25/2024 18:48	65502	MOJO_T2	44	268	224	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/25/2024 18:48	60902	DONG_T2	0	1	1	0	0.1	0.1	0.53	0.54	0	0	0	0	0	0
11/25/2024 18:48	63501	HEID_TBK1-2	1	14	13	1.2	0.21	-0.99	0.42	0.38	0	0	0	0	0	0
11/25/2024 18:48	13704	SCHN_T2	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
11/25/2024 18:48	15204	SFAR_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
11/25/2024 18:49	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:49	66505	SMAN_T2	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0	0
11/25/2024 18:49	63302	GREE_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
11/25/2024 18:50	60501	NMAN_T2	0	30	30	0	0.21	0.21	0	0	0	0	0	0	0	0
11/25/2024 18:50	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:50	13701	SCHN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:50	60504	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:50	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
11/25/2024 18:50	14201	EALL_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
11/25/2024 18:50	66505	SMAN_T2	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0	0
11/25/2024 18:51	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:51	60501	NMAN_T2	0	30	30	0	0.21	0.21	0	0	0	0	0	0	0	0
11/25/2024 18:51	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:51	60504	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/25/2024 18:51	46004	BERW_T2	1	1	0	0.5	0	-0.5	-0.52	-0.51	0	0	0	0	0	0
11/25/2024 18:54	64901	MILL_T1	0	13	13	0	0.12	0.12	0	0	0	0	0	0	0	0
11/25/2024 18:54	64904	MILL_T1	0	0	0	0	0	0	0.4	-0.54	0	0	0	0	0	0
11/25/2024 19:08	61102	BERK_T5	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/25/2024 19:08	61103	BERK_T5	2	66	64	0.1	0.12	0.02	0	0	0	0	0	0	0	0
11/25/2024 19:09	59101	MALK_T2	0	0	0	0	0	0	1.4	1.21	0	0	0	0	0	0
11/25/2024 19:09	67001	STHI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/25/2024 19:09	67002	STHI_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
11/25/2024 19:28	11301	EMMA_T1	0	0	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0
11/25/2024 19:30	51602	DUKE_T2	0	0	0	0	0	0	-0.34	-0.31	0	0	0	0	0	0
11/25/2024 19:56	40802	EXCH_T2	6	41	35	0.15	0.12	-0.03	-0.96	-0.97	0	0	0	0	0	0
11/25/2024 19:56	40801	EXCH_T2	3	4	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
11/25/2024 22:11	22602	KIMB_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
11/26/2024 8:51	66505	SMAN_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/26/2024 8:51	66502	SMAN_T2	0	0	0	0	0	0	0.29	0.35	0	0	0	0	0	0
11/26/2024 9:00	66505	SMAN_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
11/26/2024 9:00	45702	LIND_T2	0	1	1	0	1.1	1.1	-0.54	-0.55	0	0	0	0	0	0
11/26/2024 9:00	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/26/2024 9:00	52403	GRPA_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
11/26/2024 9:00	66502	SMAN_T2	0	0	0	0	0	0	0.29	0.35	0	0	0	0	0	0
11/26/2024 9:00	13704	SCHN_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
11/26/2024 9:00	52402	GRPA_T2	3	4	1	0.4	0.55	0.15	-0.92	-0.89	0	0	0	0	0	0
11/26/2024 9:00	52401	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
11/26/2024 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
11/26/2024 9:00	67503	WEWI_T2	1	1	0	8.5	8.9	0.4	-0.13	-0.12	0	0	0	0	0	0
11/26/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
11/26/2024 9:00	57203	ROSS_T1	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
11/26/2024 9:02	63202	MGTN_T2	2	2	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/26/2024 9:02	64903	MILL_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
11/26/2024 9:02	63201	MGTN_T2	0	0	0	0	0	0	0.27	0.32	1	1	0	600	600	0
11/26/2024 9:03	64903	MILL_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
11/26/2024 9:08	58001	WCAR_T1	4	4	0	1.03	1.13	0.1	0	0	0	0	0	0	0	0
11/26/2024 9:08	58003	WCAR_T1	1	1	0	1.2	1.2	0	0.66	0.68	0	0	0	0	0	0
11/26/2024 9:09	58001	WCAR_T1	4	4	0	1.03	1.13	0.1	0	0	0	0	0	0	0	0
11/26/2024 9:09	58003	WCAR_T1	1	1	0	1.2	1.2	0	0.66	0.68	0	0	0	0	0	0
11/26/2024 9:10	60301	TWVA_T2	0	0	0	0	0	0	-1.86	-1.86	2	2	0	1800	1800	0
11/26/2024 9:23	60301	TWVA_T2	0	0	0	0	0	0	-3.72	-3.8	4	4	0	3600	3600	0
11/26/2024 9:31	65402	MARI_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/26/2024 9:31	65401	MARI_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/26/2024 9:33	50502	MECH_T1	1	1	0	1.4	1.8	0.4	0	0	0	0	0	0	0	0
11/26/2024 9:33	65402	MARI_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/26/2024 9:33	65401	MARI_T1	0	3	3	0	0.1	0.1	0.92	1.29	0	0	0	0	0	0
11/26/2024 9:33	50501	MECH_T1	4	4	0	0.68	0.93	0.25	-0.12	-0.23	0	0	0	0	0	0
11/26/2024 9:34	65402	MARI_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/26/2024 9:34	65401	MARI_T1	0	3	3	0	0.1	0.1	0.31	0.43	0	0	0	0	0	0
11/26/2024 9:34	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 9:34	10206	ALLE_T2	1	1	0	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
11/26/2024 9:34	10102	ALLE_T2	1	1	0	7	6.9	-0.1	0	0	0	0	0	0	0	0
11/26/2024 9:35	67604	WARW_T1	0	0	0	0	0	0	0.68	0.72	0	0	0	0	0	0
11/26/2024 9:35	65402	MARI_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/26/2024 9:35	67605	WARW_T1	13	35	22	0.49	0.55	0.06	0	0	0	0	0	0	0	0
11/26/2024 9:35	65401	MARI_T1	0	3	3	0	0.1	0.1	0.31	0.43	0	0	0	0	0	0
11/26/2024 9:37	67401	WAKE_T2	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
11/26/2024 9:39	58001	WCAR_T1	4	4	0	0.85	1.28	0.43	0	0	0	0	0	0	0	0
11/26/2024 9:39	58003	WCAR_T1	1	1	0	0.8	1.3	0.5	0.75	0.73	0	0	0	0	0	0
11/26/2024 9:40	67401	WAKE_T2	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
11/26/2024 9:40	45501	DERR_T2	0	0	0	0	0	0	0.48	0.44	2	2	0	1800	1800	0
11/26/2024 9:42	60801	BUCK_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
11/26/2024 9:42	60803	BUCK_T1	8	7	-1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
11/26/2024 9:42	45501	DERR_T2	0	0	0	0	0	0	0.48	0.44	2	2	0	1800	1800	0
11/26/2024 9:45	63501	HEID_TBK1-2	5	32	27	0.28	0.23	-0.05	0.02	0.03	1	1	0	900	900	0
11/26/2024 9:46	42903	MIDD_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/26/2024 9:46	42902	MIDD_T2	0	0	0	0	0	0	-0.39	-0.33	0	0	0	0	0	0
11/26/2024 9:46	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 9:46	63501	HEID_TBK1-2	5	32	27	0.28	0.23	-0.05	0.04	0.06	2	2	0	1800	1800	0
11/26/2024 9:47	63501	HEID_TBK1-2	5	32	27	0.28	0.23	-0.05	0.02	0.03	1	1	0	900	900	0
11/26/2024 9:47	54502	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/26/2024 9:47	54505	ENOL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
11/26/2024 9:47	54506	ENOL_T2	0	0	0	0	0	0	0.49	0.49	0	1	1	0	600	600
11/26/2024 9:48	42903	MIDD_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/26/2024 9:48	63501	HEID_TBK1-2	5	32	27	0.28	0.23	-0.05	0.02	0.03	1	1	0	900	900	0
11/26/2024 9:48	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 9:48	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 9:48	12004	HATF_T1	0	0	0	0	0	0	0.8	0.61	1	1	0	1200	1200	0
11/26/2024 9:49	65601	QVIL_T2	0	0	0	0	0	0	-1.23	-1.11	1	1	0	900	900	0
11/26/2024 9:50	42903	MIDD_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/26/2024 9:50	42902	MIDD_T2	0	0	0	0	0	0	-0.39	-0.33	0	0	0	0	0	0
11/26/2024 9:50	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 9:52	57205	ROSS_T1	0	0	0	0	0	0	0.06	0.11	0	0	0	0	0	0
11/26/2024 9:52	13302	ORVI_T2	0	0	0	0	0	0	1.41	1.54	0	0	0	0	0	0
11/26/2024 9:57	60201	ATGL_T2	0	0	0	0	0	0	-0.07	0.03	0	0	0	0	0	0
11/26/2024 9:58	61001	DONV_T1	1	2	1	0.4	0.45	0.05	-0.62	-0.18	0	0	0	0	0	0
11/26/2024 10:00	23901	EFMO_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
11/26/2024 10:00	61001	DONV_T1	2	0	-2	0.45	0	-0.45	-0.31	-0.09	0	0	0	0	0	0
11/26/2024 10:01	64305	LINC_T1	1	1	0	0.4	0.1	-0.3	-0.21	-0.05	0	0	0	0	0	0
11/26/2024 10:01	45702	LIND_T2	2	1	-1	0.6	1.4	0.8	-0.34	-0.31	0	0	0	0	0	0
11/26/2024 10:02	46506	LOHA_T1	4	4	0	3.08	3.43	0.35	0	0	0	0	0	0	0	0
11/26/2024 10:02	46503	LOHA_T1	0	0	0	0	0	0	-1.26	-1.26	0	0	0	0	0	0
11/26/2024 10:03	46502	LOHA_T1	0	0	0	0	0	0	-1.37	-1.4	1	1	0	1200	1200	0
11/26/2024 10:03	46506	LOHA_T1	4	4	0	3.08	3.43	0.35	0	0	0	0	0	0	0	0
11/26/2024 10:03	60504	NMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
11/26/2024 10:03	60501	NMAN_T2	1	25	24	0.1	0.14	0.04	0	0	0	0	0	0	0	0
11/26/2024 10:03	60502	NMAN_T2	0	1	1	0	0.2	0.2	-0.33	-0.32	0	0	0	0	0	0
11/26/2024 10:05	60501	NMAN_T2	1	25	24	0.1	0.14	0.04	0	0	0	0	0	0	0	0
11/26/2024 10:05	65802	RTWN_T2	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
11/26/2024 10:05	60502	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/26/2024 10:05	60504	NMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
11/26/2024 10:06	58302	NOTT_T1	0	0	0	0	0	0	-0.42	-0.41	1	1	0	1200	1200	0
11/26/2024 10:07	60501	NMAN_T2	1	25	24	0.1	0.14	0.04	0	0	0	0	0	0	0	0
11/26/2024 10:07	60502	NMAN_T2	0	1	1	0	0.2	0.2	-0.32	-0.31	0	0	0	0	0	0
11/26/2024 10:07	60504	NMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/26/2024 10:08	60502	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/26/2024 10:08	65201	PRIN_T4	3	3	0	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/26/2024 10:08	60504	NMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
11/26/2024 10:08	60501	NMAN_T2	1	25	24	0.1	0.14	0.04	0	0	0	0	0	0	0	0
11/26/2024 10:08	65207	PRIN_T4	13	30	17	0.75	0.32	-0.43	0	0	1	1	0	1200	1200	0
11/26/2024 10:08	65206	PRIN_T4	21	24	3	0.11	0.14	0.03	0	0	0	0	0	0	0	0
11/26/2024 10:09	65205	PRIN_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/26/2024 10:09	65202	PRIN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/26/2024 10:11	54601	SUMM_T2	7	7	0	0.4	0.33	-0.07	-2.97	-3.01	2	2	0	2100	2100	0
11/26/2024 10:12	60904	DONG_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/26/2024 10:12	60901	DONG_T2	2	4	2	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/26/2024 10:12	60902	DONG_T2	1	2	1	0.2	0.35	0.15	0.81	0.8	0	0	0	0	0	0
11/26/2024 10:12	60903	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/26/2024 10:14	60904	DONG_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/26/2024 10:14	64503	LAVI_T1	0	0	0	0	0	0	0.33	0.45	1	1	0	1200	1200	0
11/26/2024 10:14	60902	DONG_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
11/26/2024 10:14	60903	DONG_T2	0	1	1	0	0.1	0.1	0.4	0.37	1	1	0	600	600	0
11/26/2024 10:14	60901	DONG_T2	2	4	2	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/26/2024 10:15	64501	LAVI_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
11/26/2024 10:15	64704	LITI_T1	0	0	0	0	0	0	0.22	0.42	1	1	0	600	600	0
11/26/2024 10:16	64801	MONE_T2	1	15	14	0.4	0.21	-0.19	0	0	0	0	0	0	0	0
11/26/2024 10:16	64802	MONE_T2	0	13	13	0	0.14	0.14	0.29	0.28	0	0	0	0	0	0
11/26/2024 10:16	45702	LIND_T2	1	2	1	1.4	0.8	-0.6	-0.63	-0.69	0	0	0	0	0	0
11/26/2024 10:16	45701	LIND_T2	0	0	0	0	0	0	-1.68	-1.66	0	0	0	0	0	0
11/26/2024 10:19	47403	PENS_T1	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
11/26/2024 10:19	47402	PENS_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
11/26/2024 10:19	47401	PENS_T1	0	4	4	0	0.45	0.45	0.23	0.31	0	0	0	0	0	0
11/26/2024 10:20	17002	RIRO_T2	49	63	14	0.15	0.17	0.02	0.66	0.64	0	0	0	0	0	0
11/26/2024 10:26	62106	ELAN_T1	0	0	0	0	0	0	1.09	1.11	0	0	0	0	0	0
11/26/2024 10:26	62102	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/26/2024 10:26	10801	CHHI_T1	0	1	1	0	0.1	0.1	-1.66	-1.57	2	2	0	1800	1800	0
11/26/2024 10:31	52403	GRPA_T2	4	2	-2	0.35	0.6	0.25	-0.18	-0.19	0	0	0	0	0	0
11/26/2024 10:31	52401	GRPA_T2	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
11/26/2024 10:31	52402	GRPA_T2	3	5	2	0.37	0.46	0.09	0	0	0	0	0	0	0	0
11/26/2024 10:33	55001	NEWP_T1	3	10	7	0.37	0.22	-0.15	0	0	0	0	0	0	0	0
11/26/2024 10:33	55002	NEWP_T1	7	8	1	1.11	1.4	0.29	-0.26	-0.24	0	0	0	0	0	0
11/26/2024 10:34	55002	NEWP_T1	7	8	1	1.11	1.4	0.29	-0.26	-0.24	0	0	0	0	0	0
11/26/2024 10:34	55001	NEWP_T1	3	10	7	0.37	0.22	-0.15	0	0	0	0	0	0	0	0
11/26/2024 10:35	55002	NEWP_T1	7	8	1	1.11	1.4	0.29	-0.26	-0.24	0	0	0	0	0	0
11/26/2024 10:35	55001	NEWP_T1	3	10	7	0.37	0.22	-0.15	-0.29	-0.24	0	0	0	0	0	0
11/26/2024 10:36	55001	NEWP_T1	3	10	7	0.37	0.22	-0.15	-0.29	-0.24	0	0	0	0	0	0
11/26/2024 10:36	52402	GRPA_T2	3	5	2	0.37	0.46	0.09	0	0	0	0	0	0	0	0
11/26/2024 10:36	52401	GRPA_T2	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
11/26/2024 10:36	55002	NEWP_T1	7	8	1	1.11	1.4	0.29	0	0	0	0	0	0	0	0
11/26/2024 10:36	52403	GRPA_T2	4	2	-2	0.35	0.6	0.25	-0.18	-0.19	0	0	0	0	0	0
11/26/2024 10:37	57403	SPAN_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
11/26/2024 10:37	57401	SPAN_T1	2	2	0	0.95	1.2	0.25	0	0	0	0	0	0	0	0
11/26/2024 10:41	58402	MORO_T1	0	0	0	0	0	0	-0.07	-0.11	2	2	0	1500	1500	0
11/26/2024 10:46	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 10:48	13303	ORVI_T1	0	0	0	0	0	0	-0.17	-0.23	0	0	0	0	0	0
11/26/2024 10:49	60504	NMAN_T2	3	2	-1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
11/26/2024 10:49	60502	NMAN_T2	2	0	-2	0.35	0	-0.35	-0.32	-0.28	0	0	0	0	0	0
11/26/2024 10:49	60501	NMAN_T2	33	7	-26	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
11/26/2024 10:50	60502	NMAN_T2	2	0	-2	0.35	0	-0.35	-0.32	-0.28	0	0	0	0	0	0
11/26/2024 10:50	60501	NMAN_T2	33	7	-26	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
11/26/2024 10:50	15201	SFAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 10:50	46102	MACI_T1	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
11/26/2024 10:50	60504	NMAN_T2	3	2	-1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
11/26/2024 10:52	57205	ROSS_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
11/26/2024 10:52	57203	ROSS_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
11/26/2024 10:53	57201	ROSS_T1	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
11/26/2024 10:53	57205	ROSS_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
11/26/2024 10:54	13302	ORVI_T2	1	0	-1	0.2	0	-0.2	1.44	1.41	0	0	0	0	0	0
11/26/2024 10:54	60502	NMAN_T2	2	0	-2	0.35	0	-0.35	-0.28	-0.28	0	0	0	0	0	0
11/26/2024 10:54	60501	NMAN_T2	33	7	-26	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
11/26/2024 10:54	60504	NMAN_T2	3	2	-1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
11/26/2024 10:55	57203	ROSS_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
11/26/2024 10:55	57205	ROSS_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
11/26/2024 11:02	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
11/26/2024 11:02	64305	LINC_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/26/2024 11:02	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 11:03	42903	MIDD_T2	2	2	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
11/26/2024 11:03	64904	MILL_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
11/26/2024 11:03	64901	MILL_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/26/2024 11:03	42902	MIDD_T2	1	17	16	0.1	0.54	0.44	-0.25	-0.22	0	0	0	0	0	0
11/26/2024 11:04	45802	HEGI_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
11/26/2024 11:04	42903	MIDD_T2	2	2	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
11/26/2024 11:04	42902	MIDD_T2	1	17	16	0.1	0.54	0.44	-0.5	-0.44	0	0	0	0	0	0
11/26/2024 11:05	42902	MIDD_T2	1	17	16	0.1	0.54	0.44	-0.25	-0.22	0	0	0	0	0	0
11/26/2024 11:05	42903	MIDD_T2	2	2	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
11/26/2024 11:06	65503	MOJO_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
11/26/2024 11:07	60502	NMAN_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
11/26/2024 11:07	60504	NMAN_T2	2	3	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/26/2024 11:07	60501	NMAN_T2	7	18	11	0.13	0.16	0.03	0	0	0	0	0	0	0	0
11/26/2024 11:08	15201	SFAR_T1	0	0	0	0	0	0	-0.7	-0.72	2	2	0	1800	1800	0
11/26/2024 11:08	60501	NMAN_T2	7	18	11	0.13	0.16	0.03	0	0	0	0	0	0	0	0
11/26/2024 11:08	57401	SPAN_T1	2	2	0	0.9	1.05	0.15	0	0	0	0	0	0	0	0
11/26/2024 11:08	57403	SPAN_T1	0	1	1	0	0.2	0.2	-0.04	-0.03	0	0	0	0	0	0
11/26/2024 11:08	60504	NMAN_T2	2	3	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/26/2024 11:08	67402	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/26/2024 11:08	14801	TREI_T2	4	15	11	0.38	0.26	-0.12	0	0	0	0	0	0	0	0
11/26/2024 11:08	67401	WAKE_T2	0	1	1	0	0.7	0.7	-1.08	-1.13	0	0	0	0	0	0
11/26/2024 11:08	14802	TREI_T2	3	9	6	0.13	0.26	0.13	0.68	0.64	0	0	0	0	0	0
11/26/2024 11:08	60502	NMAN_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
11/26/2024 11:09	60803	BUCK_T1	5	16	11	0.2	0.33	0.13	0	0	0	0	0	0	0	0
11/26/2024 11:09	60801	BUCK_T1	0	10	10	0	0.23	0.23	-0.2	-0.06	0	0	0	0	0	0
11/26/2024 11:10	14802	TREI_T2	3	9	6	0.13	0.26	0.13	0	0	0	0	0	0	0	0
11/26/2024 11:10	14801	TREI_T2	4	15	11	0.38	0.26	-0.12	0.36	0.35	0	0	0	0	0	0
11/26/2024 11:12	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/26/2024 11:13	40703	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/26/2024 11:13	40701	FFLD_T1	9	23	14	0.1	0.16	0.06	0	0	0	0	0	0	0	0
11/26/2024 11:15	40702	FFLD_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/26/2024 11:15	40701	FFLD_T1	19	26	7	0.16	0.24	0.08	0	0	0	0	0	0	0	0
11/26/2024 11:15	40902	JESH_T1	0	0	0	0	0	0	-0.6	-0.66	0	0	0	0	0	0
11/26/2024 11:15	40901	JESH_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/26/2024 11:15	40703	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/26/2024 11:16	64302	LINC_T2	0	0	0	0	0	0	1.19	1.1	0	0	0	0	0	0
11/26/2024 11:17	40901	JESH_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/26/2024 11:17	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/26/2024 11:17	52402	GRPA_T2	7	17	10	0.5	0.73	0.23	-0.98	-1.02	0	0	0	0	0	0
11/26/2024 11:17	52401	GRPA_T2	1	2	1	0.8	1	0.2	0	0	0	0	0	0	0	0
11/26/2024 11:17	52403	GRPA_T2	7	15	8	0.64	0.69	0.05	0	0	0	0	0	0	0	0
11/26/2024 11:17	40902	JESH_T1	0	0	0	0	0	0	-0.6	-0.66	0	0	0	0	0	0
11/26/2024 11:18	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 11:18	64305	LINC_T1	0	1	1	0	0.9	0.9	-0.12	0	0	0	0	0	0	0
11/26/2024 11:18	40901	JESH_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/26/2024 11:19	54203	PENN_T1	21	20	-1	0.59	0.8	0.21	0	0	0	0	0	0	0	0
11/26/2024 11:19	54201	PENN_T1	7	7	0	0.61	0.79	0.18	0.15	0.15	0	0	0	0	0	0
11/26/2024 11:21	54602	SUMM_T2	0	11	11	0	0.2	0.2	0	0	0	0	0	0	0	0
11/26/2024 11:21	54601	SUMM_T2	4	8	4	0.45	0.41	-0.04	-3.06	-3.02	2	2	0	2100	2100	0
11/26/2024 11:22	14201	EALL_T1	0	0	0	0	0	0	0.49	0.58	0	0	0	0	0	0
11/26/2024 11:23	55001	NEWP_T1	2	5	3	0.15	0.4	0.25	0	0	0	0	0	0	0	0
11/26/2024 11:23	55002	NEWP_T1	10	11	1	1.02	0.93	-0.09	-0.23	-0.25	0	0	0	0	0	0
11/26/2024 11:24	43301	WATS_T2	0	1	1	0	0.1	0.1	0.15	0.14	0	0	0	0	0	0
11/26/2024 11:24	42701	AUGU_T1	1	3	2	0.4	0.8	0.4	0	0	0	0	0	0	0	0
11/26/2024 11:24	54601	SUMM_T2	4	8	4	0.45	0.41	-0.04	-3.02	-3.03	2	2	0	2100	2100	0
11/26/2024 11:24	54602	SUMM_T2	0	11	11	0	0.2	0.2	0	0	0	0	0	0	0	0
11/26/2024 11:24	15001	BLMO_T1	2	7	5	0.35	0.41	0.06	0	0	0	0	0	0	0	0
11/26/2024 11:24	55001	NEWP_T1	2	5	3	0.15	0.4	0.25	0	0	0	0	0	0	0	0
11/26/2024 11:24	55002	NEWP_T1	10	11	1	1.02	0.93	-0.09	-0.23	-0.25	0	0	0	0	0	0
11/26/2024 11:25	60201	ATGL_T2	0	19	19	0	0.13	0.13	-0.05	-0.05	0	0	0	0	0	0
11/26/2024 11:25	43304	WATS_T2	0	0	0	0	0	0	-0.4	-0.31	0	0	0	0	0	0
11/26/2024 11:25	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/26/2024 11:25	20403	ASHF_T2	3	6	3	0.23	0.32	0.09	1.17	1.19	0	0	0	0	0	0
11/26/2024 11:25	20401	ASHF_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
11/26/2024 11:26	46504	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/26/2024 11:26	42701	AUGU_T1	1	3	2	0.4	0.8	0.4	0	0	2	2	0	1800	1800	0
11/26/2024 11:26	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.63	0	0	0	0	0	0
11/26/2024 11:26	15001	BLMO_T1	2	7	5	0.35	0.41	0.06	0	0	0	0	0	0	0	0
11/26/2024 11:26	46506	LOHA_T1	4	4	0	3.55	3.8	0.25	0	0	0	0	0	0	0	0
11/26/2024 11:27	20403	ASHF_T2	3	6	3	0.23	0.32	0.09	1.17	1.19	0	0	0	0	0	0
11/26/2024 11:27	20401	ASHF_T2	2	2	0	0.25	0.3	0.05	-0.28	-0.25	0	0	0	0	0	0
11/26/2024 11:27	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/26/2024 11:27	43304	WATS_T2	0	0	0	0	0	0	-0.4	-0.31	0	0	0	0	0	0
11/26/2024 11:27	46004	BERW_T2	0	2	2	0	0.3	0.3	-0.47	-0.45	0	0	0	0	0	0
11/26/2024 11:28	42701	AUGU_T1	1	3	2	0.4	0.8	0.4	0	0	4	4	0	3600	3600	0
11/26/2024 11:28	15001	BLMO_T1	2	7	5	0.35	0.41	0.06	0	0	0	0	0	0	0	0
11/26/2024 11:28	60201	ATGL_T2	0	19	19	0	0.13	0.13	0	0	0	0	0	0	0	0
11/26/2024 11:29	17802	GILB_T1	0	1	1	0	0.5	0.5	0.11	0.07	0	0	0	0	0	0
11/26/2024 11:33	64701	LITI_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
11/26/2024 11:35	58202	NEWV_T1	1	0	-1	0.1	0	-0.1	0.05	0.08	0	0	0	0	0	0
11/26/2024 11:36	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/26/2024 11:37	58202	NEWV_T1	1	0	-1	0.1	0	-0.1	0.16	0.61	0	0	0	0	0	0
11/26/2024 11:38	14402	SSLA_T1	12	9	-3	0.3	0.3	0	0	0	0	0	0	0	0	0
11/26/2024 11:38	60502	NMAN_T2	0	0	0	0	0	0	-0.33	-0.29	0	0	0	0	0	0
11/26/2024 11:38	14404	SSLA_T1	9	11	2	0.29	0.35	0.06	0	0	0	0	0	0	0	0
11/26/2024 11:38	14401	SSLA_T1	3	3	0	0.13	0.17	0.04	0	0	0	0	0	0	0	0
11/26/2024 11:38	60501	NMAN_T2	18	2	-16	0.16	0.3	0.14	0	0	0	0	0	0	0	0
11/26/2024 11:38	14403	SSLA_T1	0	1	1	0	0.1	0.1	0.61	0.58	0	0	0	0	0	0
11/26/2024 11:38	60504	NMAN_T2	3	0	-3	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/26/2024 11:40	14404	SSLA_T1	9	11	2	0.29	0.35	0.06	-0.03	-0.05	0	0	0	0	0	0
11/26/2024 11:40	14401	SSLA_T1	3	3	0	0.13	0.17	0.04	-0.59	-0.56	0	0	0	0	0	0
11/26/2024 11:40	14403	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/26/2024 11:40	57205	ROSS_T1	2	3	1	0.7	0.67	-0.03	0.11	0.12	0	0	0	0	0	0
11/26/2024 11:40	64704	LITI_T1	0	0	0	0	0	0	0.3	0.44	1	1	0	600	600	0
11/26/2024 11:40	14402	SSLA_T1	12	9	-3	0.3	0.3	0	0	0	0	0	0	0	0	0
11/26/2024 11:40	60103	COCA_T2	0	0	0	0	0	0	-2.26	-1.48	2	1	-1	2100	1200	-900
11/26/2024 11:40	46002	BERW_T2	0	0	0	0	0	0	-0.71	-0.76	1	1	0	900	900	0
11/26/2024 11:40	46004	BERW_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
11/26/2024 11:40	57201	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/26/2024 11:41	46001	BERW_T1	0	0	0	0	0	0	0.81	0.86	0	0	0	0	0	0
11/26/2024 11:43	46001	BERW_T1	0	0	0	0	0	0	0.81	0.86	0	0	0	0	0	0
11/26/2024 11:44	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 11:45	45802	HEGI_T2	0	36	36	0	0.61	0.61	0.84	0.91	2	2	0	1800	1800	0
11/26/2024 11:46	67201	TEHI_T1	0	2	2	0	0.25	0.25	0.64	0.57	2	2	0	1500	1500	0
11/26/2024 11:46	23901	EFMO_T2	0	2	2	0	0.25	0.25	-0.29	-0.31	0	0	0	0	0	0
11/26/2024 11:46	64204	KINZ_T1	1	4	3	0.5	0.68	0.18	0	0	0	0	0	0	0	0
11/26/2024 11:46	64202	KINZ_T1	2	2	0	0.1	0.35	0.25	0.68	0.63	0	0	0	0	0	0
11/26/2024 11:47	58201	NEWV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/26/2024 11:47	41801	GOCI_T2	5	0	-5	0.34	0	-0.34	0	0	0	0	0	0	0	0
11/26/2024 11:47	58202	NEWV_T1	0	10	10	0	0.26	0.26	0.08	0.31	0	0	0	0	0	0
11/26/2024 11:48	65602	QVIL_T2	10	26	16	0.15	0.22	0.07	0	0	0	0	0	0	0	0
11/26/2024 11:48	65601	QVIL_T2	5	104	99	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/26/2024 11:48	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 11:48	65604	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/26/2024 11:49	65604	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/26/2024 11:49	65603	QVIL_T2	0	0	0	0	0	0	0.58	0.48	0	0	0	0	0	0
11/26/2024 11:49	65601	QVIL_T2	5	104	99	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/26/2024 11:49	65602	QVIL_T2	10	26	16	0.15	0.22	0.07	0	0	0	0	0	0	0	0
11/26/2024 11:50	64801	MONE_T2	34	90	56	0.16	0.23	0.07	0.24	0.2	0	0	0	0	0	0
11/26/2024 11:50	64802	MONE_T2	276	144	-132	0.22	0.25	0.03	0	0	0	0	0	0	0	0
11/26/2024 11:51	65603	QVIL_T2	0	0	0	0	0	0	0.48	0.27	0	0	0	0	0	0
11/26/2024 11:51	65602	QVIL_T2	10	26	16	0.15	0.22	0.07	0	0	0	0	0	0	0	0
11/26/2024 11:51	65604	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/26/2024 11:51	65601	QVIL_T2	5	104	99	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/26/2024 11:52	12807	MICK_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/26/2024 11:52	12801	MICK_T1	1	1	0	0.3	0.1	-0.2	-0.1	-0.08	1	1	0	600	600	0
11/26/2024 11:52	57401	SPAN_T1	2	2	0	0.65	1.2	0.55	0	0	0	0	0	0	0	0
11/26/2024 11:52	14401	SSLA_T1	3	4	1	0.17	0.35	0.18	0	0	0	0	0	0	0	0
11/26/2024 11:52	14404	SSLA_T1	11	11	0	0.35	0.36	0.01	-0.05	-0.05	0	0	0	0	0	0
11/26/2024 11:52	57403	SPAN_T1	0	5	5	0	0.3	0.3	-0.04	-0.02	0	0	0	0	0	0
11/26/2024 11:52	12802	MICK_T1	6	1	-5	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
11/26/2024 11:52	11202	ELHE_T2	0	0	0	0	0	0	0.38	0.39	1	1	0	1200	1200	0
11/26/2024 11:52	12803	MICK_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
11/26/2024 11:52	14403	SSLA_T1	1	2	1	0.1	0.35	0.25	0.58	0.6	0	0	0	0	0	0
11/26/2024 11:52	14402	SSLA_T1	9	9	0	0.3	0.19	-0.11	0	0	0	0	0	0	0	0
11/26/2024 11:53	65601	QVIL_T2	5	104	99	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/26/2024 11:53	65603	QVIL_T2	0	0	0	0	0	0	0.48	0.27	0	0	0	0	0	0
11/26/2024 11:53	57403	SPAN_T1	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
11/26/2024 11:53	65604	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/26/2024 11:53	65602	QVIL_T2	10	26	16	0.15	0.22	0.07	0	0	0	0	0	0	0	0
11/26/2024 11:53	57401	SPAN_T1	2	2	0	0.65	1.2	0.55	0	0	0	0	0	0	0	0
11/26/2024 11:55	21202	ECAR_T2	28	0	-28	9.69	0	-9.69	0	0	0	0	0	0	0	0
11/26/2024 11:55	21206	ECAR_T2	1	1	0	8.1	8	-0.1	0.24	0.28	0	0	0	0	0	0
11/26/2024 11:55	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 11:55	57401	SPAN_T1	2	2	0	0.65	1.2	0.55	0	0	0	0	0	0	0	0
11/26/2024 11:55	57403	SPAN_T1	0	5	5	0	0.3	0.3	-0.04	-0.02	0	0	0	0	0	0
11/26/2024 11:56	14404	SSLA_T1	11	11	0	0.35	0.36	0.01	-0.05	-0.05	0	0	0	0	0	0
11/26/2024 11:56	14401	SSLA_T1	3	4	1	0.17	0.35	0.18	0	0	0	0	0	0	0	0
11/26/2024 11:56	14402	SSLA_T1	9	9	0	0.3	0.19	-0.11	0	0	0	0	0	0	0	0
11/26/2024 11:56	15103	UPHA_T2	1	1	0	0.8	0.4	-0.4	0.36	0.36	0	0	0	0	0	0
11/26/2024 11:56	14403	SSLA_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
11/26/2024 11:57	45501	DERR_T2	0	2	2	0	0.4	0.4	0.72	0.73	2	2	0	1800	1800	0
11/26/2024 11:58	45501	DERR_T2	0	2	2	0	0.4	0.4	0.72	0.73	2	2	0	1800	1800	0
11/26/2024 11:59	24702	FLND_T2	0	0	0	0	0	0	0.93	0.85	1	1	0	1200	1200	0
11/26/2024 12:00	64203	KINZ_T1	0	0	0	0	0	0	0.09	0.13	2	2	0	1800	1800	0
11/26/2024 12:00	64204	KINZ_T1	1	23	22	1.3	0.43	-0.87	0	0	0	0	0	0	0	0
11/26/2024 12:00	64202	KINZ_T1	1	3	2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
11/26/2024 12:01	53902	HALI_T2	1	2	1	6.1	3.2	-2.9	0	0	0	0	0	0	0	0
11/26/2024 12:01	64202	KINZ_T1	1	3	2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
11/26/2024 12:01	53903	HALI_T2	4	11	7	0.9	0.55	-0.35	-0.14	-0.1	0	0	0	0	0	0
11/26/2024 12:01	53901	HALI_T2	1	3	2	0.9	0.47	-0.43	0	0	0	0	0	0	0	0
11/26/2024 12:01	64201	KINZ_T1	0	0	0	0	0	0	-0.02	-0.39	9	9	0	4500	4500	0
11/26/2024 12:01	64204	KINZ_T1	1	23	22	1.3	0.43	-0.87	0	0	0	0	0	0	0	0
11/26/2024 12:02	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 12:02	53902	HALI_T2	1	2	1	6.1	3.2	-2.9	0	0	0	0	0	0	0	0
11/26/2024 12:02	64204	KINZ_T1	1	23	22	1.3	0.43	-0.87	0	0	0	0	0	0	0	0
11/26/2024 12:02	53901	HALI_T2	1	3	2	0.9	0.47	-0.43	0	0	0	0	0	0	0	0
11/26/2024 12:02	64202	KINZ_T1	1	3	2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
11/26/2024 12:02	53903	HALI_T2	4	11	7	0.9	0.55	-0.35	-0.14	-0.1	0	0	0	0	0	0
11/26/2024 12:02	15203	SFAR_T2	1	1	0	0.2	0.1	-0.1	-1.32	-1.37	0	0	0	0	0	0
11/26/2024 12:03	53903	HALI_T2	4	11	7	0.9	0.55	-0.35	-0.14	-0.1	0	0	0	0	0	0
11/26/2024 12:03	53902	HALI_T2	1	2	1	6.1	3.2	-2.9	0	0	0	0	0	0	0	0
11/26/2024 12:03	53901	HALI_T2	1	3	2	0.9	0.47	-0.43	0	0	0	0	0	0	0	0
11/26/2024 12:07	64802	MONE_T2	122	130	8	0.22	0.25	0.03	0	0	0	0	0	0	0	0
11/26/2024 12:07	60502	NMAN_T2	0	3	3	0	0.25	0.25	-0.31	-0.3	0	0	0	0	0	0
11/26/2024 12:07	60501	NMAN_T2	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/26/2024 12:07	64801	MONE_T2	53	51	-2	0.22	0.2	-0.02	0.23	0.23	0	0	0	0	0	0
11/26/2024 12:07	60504	NMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/26/2024 12:08	67401	WAKE_T2	4	3	-1	0.15	0.17	0.02	-1.15	-1.18	0	0	0	0	0	0
11/26/2024 12:08	67402	WAKE_T2	1	3	2	0.3	0.27	-0.03	0.4	0.99	1	0	-1	600	0	-600
11/26/2024 12:08	64802	MONE_T2	122	130	8	0.22	0.25	0.03	0.29	0.26	0	0	0	0	0	0
11/26/2024 12:08	64801	MONE_T2	53	51	-2	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
11/26/2024 12:09	21202	ECAR_T2	1	0	-1	10	0	-10	0	0	0	0	0	0	0	0
11/26/2024 12:09	21206	ECAR_T2	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
11/26/2024 12:09	21204	ECAR_T2	1	1	0	0	0	0	0.24	0.28	0	0	0	0	0	0
11/26/2024 12:10	15103	UPHA_T2	0	2	2	0	0.4	0.4	0.36	0.37	0	0	0	0	0	0
11/26/2024 12:10	61304	EARL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/26/2024 12:10	61302	EARL_T1	0	2	2	0	0.35	0.35	0.31	0.27	2	2	0	1800	1800	0
11/26/2024 12:11	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/26/2024 12:11	54505	ENOL_T2	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
11/26/2024 12:11	54501	ENOL_T2	0	1	1	0	0.1	0.1	0.12	0.08	0	0	0	0	0	0
11/26/2024 12:11	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/26/2024 12:12	20403	ASHF_T2	50	16	-34	0.22	0.26	0.04	1.02	1.18	0	0	0	0	0	0
11/26/2024 12:12	11904	ETEX_T2	1	0	-1	1	0	-1	0.4	0.41	0	0	0	0	0	0
11/26/2024 12:12	46203	DANV_T2	4	7	3	0.6	0.47	-0.13	-0.84	-0.83	0	0	0	0	0	0
11/26/2024 12:12	67401	WAKE_T2	4	3	-1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
11/26/2024 12:12	67402	WAKE_T2	1	3	2	0.3	0.27	-0.03	0.4	0.99	1	0	-1	600	0	-600
11/26/2024 12:12	20401	ASHF_T2	1	4	3	0.1	0.28	0.18	0	0	0	0	0	0	0	0
11/26/2024 12:13	61304	EARL_T1	0	1	1	0	0.3	0.3	-0.92	-0.95	1	1	0	600	600	0
11/26/2024 12:13	42701	AUGU_T1	1	3	2	0.4	0.53	0.13	0	0	2	2	0	1800	1800	0
11/26/2024 12:13	61302	EARL_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
11/26/2024 12:14	12801	MICK_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
11/26/2024 12:14	40802	EXCH_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/26/2024 12:14	12807	MICK_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/26/2024 12:14	12803	MICK_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
11/26/2024 12:14	40801	EXCH_T2	0	0	0	0	0	0	-0.97	-1.01	2	2	0	2400	2400	0
11/26/2024 12:14	12802	MICK_T1	0	2	2	0	0.1	0.1	-1.21	-1.21	0	0	0	0	0	0
11/26/2024 12:14	46203	DANV_T2	4	7	3	0.6	0.47	-0.13	-0.84	-0.83	0	0	0	0	0	0
11/26/2024 12:14	11904	ETEX_T2	1	0	-1	1	0	-1	0.2	0.21	0	0	0	0	0	0
11/26/2024 12:14	14203	EALL_T1	0	1	1	0	0.4	0.4	-0.38	-0.42	1	1	0	1200	1200	0
11/26/2024 12:15	46203	DANV_T2	0	6	6	0	0.37	0.37	-0.84	-0.83	0	0	0	0	0	0
11/26/2024 12:16	45802	HEGI_T2	33	46	13	0.64	1.49	0.85	0.48	0.34	1	1	0	900	900	0
11/26/2024 12:16	10101	ALLE_T3	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
11/26/2024 12:16	10105	ALLE_T3	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
11/26/2024 12:16	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 12:16	14204	EALL_T2	0	0	0	0	0	0	0.16	0.08	0	0	0	0	0	0
11/26/2024 12:16	14203	EALL_T1	0	2	2	0	0.65	0.65	-0.75	-0.85	2	2	0	2400	2400	0
11/26/2024 12:17	57104	SPHI_T2	1	2	1	1.5	0.8	-0.7	-0.17	-0.18	0	0	0	0	0	0
11/26/2024 12:17	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/26/2024 12:17	54504	ENOL_T2	1	1	0	0.2	0.1	-0.1	-1.1	-1.1	1	1	0	600	600	0
11/26/2024 12:17	40802	EXCH_T2	1	0	-1	0.5	0	-0.5	-0.37	-0.38	0	0	0	0	0	0
11/26/2024 12:17	48901	FOSP_T2	0	0	0	0	0	0	-0.18	-0.11	1	1	0	600	600	0
11/26/2024 12:17	54505	ENOL_T2	2	2	0	0.55	0.85	0.3	0	0	0	0	0	0	0	0
11/26/2024 12:17	54501	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/26/2024 12:17	57106	SPHI_T2	3	3	0	1.03	1.07	0.04	0	0	0	0	0	0	0	0
11/26/2024 12:17	57101	SPHI_T2	6	6	0	0.92	0.7	-0.22	0	0	0	0	0	0	0	0
11/26/2024 12:18	65603	QVIL_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
11/26/2024 12:18	65601	QVIL_T2	104	73	-31	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
11/26/2024 12:18	65602	QVIL_T2	11	13	2	0.17	0.31	0.14	0	0	0	0	0	0	0	0
11/26/2024 12:18	65604	QVIL_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/26/2024 12:18	48901	FOSP_T2	0	0	0	0	0	0	-0.18	-0.11	1	1	0	600	600	0
11/26/2024 12:19	65601	QVIL_T2	104	73	-31	0.2	0.19	-0.01	-1.15	-1.3	1	1	0	900	900	0
11/26/2024 12:19	48902	FOSP_T2	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
11/26/2024 12:19	65604	QVIL_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/26/2024 12:19	65602	QVIL_T2	11	13	2	0.17	0.31	0.14	0	0	0	0	0	0	0	0
11/26/2024 12:20	43201	MVIL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
11/26/2024 12:20	43202	MVIL_T2	55	56	1	0.27	0.32	0.05	-0.63	-0.65	0	0	0	0	0	0
11/26/2024 12:20	25501	MADI_T1	7	73	66	1.1	0.27	-0.83	0	0	0	0	0	0	0	0
11/26/2024 12:20	25503	MADI_T1	22	34	12	0.17	0.21	0.04	-0.93	-1.02	0	0	0	0	0	0
11/26/2024 12:20	48901	FOSP_T2	0	0	0	0	0	0	-0.18	-0.11	1	1	0	600	600	0
11/26/2024 12:20	25502	MADI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/26/2024 12:21	67002	STHI_T2	54	176	122	0.23	0.19	-0.04	0	0	0	0	0	0	0	0
11/26/2024 12:21	67001	STHI_T2	291	372	81	0.18	0.23	0.05	0.07	0.05	0	0	0	0	0	0
11/26/2024 12:22	67001	STHI_T2	291	372	81	0.18	0.23	0.05	0.14	0.1	0	0	0	0	0	0
11/26/2024 12:22	13905	SEID_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
11/26/2024 12:22	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 12:22	54603	SUMM_T2	0	0	0	0	0	0	-0.38	-0.36	1	1	0	900	900	0
11/26/2024 12:22	21901	HUMB_T1	0	0	0	0	0	0	-0.97	-0.92	0	0	0	0	0	0
11/26/2024 12:22	54601	SUMM_T2	11	12	1	0.36	0.48	0.12	0	0	0	0	0	0	0	0
11/26/2024 12:22	54602	SUMM_T2	6	10	4	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
11/26/2024 12:22	67002	STHI_T2	54	176	122	0.23	0.19	-0.04	1.74	1.77	0	0	0	0	0	0
11/26/2024 12:23	65003	NEFF_T2	8	3	-5	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
11/26/2024 12:23	65004	NEFF_T2	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
11/26/2024 12:23	65001	NEFF_T2	0	0	0	0	0	0	0.53	0.74	0	0	0	0	0	0
11/26/2024 12:23	67001	STHI_T2	291	372	81	0.18	0.23	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/26/2024 12:23	67002	STHI_T2	54	176	122	0.23	0.19	-0.04	2.32	2.36	0	0	0	0	0	0
11/26/2024 12:23	65005	NEFF_T2	2	1	-1	0.55	0.8	0.25	0	0	0	0	0	0	0	0
11/26/2024 12:24	54601	SUMM_T2	11	12	1	0.36	0.48	0.12	0	0	0	0	0	0	0	0
11/26/2024 12:24	67001	STHI_T2	291	372	81	0.18	0.23	0.05	0.07	0.05	0	0	0	0	0	0
11/26/2024 12:24	54602	SUMM_T2	6	10	4	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
11/26/2024 12:24	54603	SUMM_T2	0	0	0	0	0	0	-0.38	-0.36	1	1	0	900	900	0
11/26/2024 12:24	67002	STHI_T2	54	176	122	0.23	0.19	-0.04	1.16	1.18	0	0	0	0	0	0
11/26/2024 12:25	67001	STHI_T2	291	372	81	0.18	0.23	0.05	0	0	0	0	0	0	0	0
11/26/2024 12:25	67002	STHI_T2	54	176	122	0.23	0.19	-0.04	0.58	0.59	0	0	0	0	0	0
11/26/2024 12:26	10705	CATA_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
11/26/2024 12:26	14102	TRUM_T2	2	3	1	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
11/26/2024 12:26	67002	STHI_T2	54	176	122	0.23	0.19	-0.04	0.58	0.59	0	0	0	0	0	0
11/26/2024 12:26	10702	CATA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/26/2024 12:26	67001	STHI_T2	291	372	81	0.18	0.23	0.05	0	0	0	0	0	0	0	0
11/26/2024 12:27	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 12:27	42701	AUGU_T1	3	1	-2	0.53	0.7	0.17	0	0	0	0	0	0	0	0
11/26/2024 12:28	58003	WCAR_T1	8	9	1	0.51	0.46	-0.05	0.73	0.7	0	0	0	0	0	0
11/26/2024 12:28	10705	CATA_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
11/26/2024 12:28	58001	WCAR_T1	5	5	0	1.44	1.3	-0.14	0	0	0	0	0	0	0	0
11/26/2024 12:28	10702	CATA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/26/2024 12:29	44302	BEAV_T2	10	8	-2	0.58	0.46	-0.12	0	0	0	0	0	0	0	0
11/26/2024 12:29	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/26/2024 12:30	10705	CATA_T2	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
11/26/2024 12:30	10701	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 12:30	10707	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/26/2024 12:34	10105	ALLE_T3	6	6	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
11/26/2024 12:34	10101	ALLE_T3	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
11/26/2024 12:34	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 12:38	14802	TREI_T2	5	7	2	0.1	0.27	0.17	0.31	0.32	0	0	0	0	0	0
11/26/2024 12:38	14801	TREI_T2	9	28	19	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
11/26/2024 12:39	46002	BERW_T2	4	2	-2	0.38	0.15	-0.23	0	0	0	0	0	0	0	0
11/26/2024 12:39	46004	BERW_T2	1	1	0	0.4	0.2	-0.2	-0.84	-0.78	0	0	0	0	0	0
11/26/2024 12:40	14801	TREI_T2	9	28	19	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
11/26/2024 12:40	14802	TREI_T2	5	7	2	0.1	0.27	0.17	0.62	0.64	0	0	0	0	0	0
11/26/2024 12:41	46002	BERW_T2	4	2	-2	0.38	0.15	-0.23	0	0	0	0	0	0	0	0
11/26/2024 12:41	46004	BERW_T2	1	1	0	0.4	0.2	-0.2	-0.42	-0.39	0	0	0	0	0	0
11/26/2024 12:42	47201	FAXO_T2	0	0	0	0	0	0	-2.35	-2.32	1	1	0	1200	1200	0
11/26/2024 12:42	47203	FAXO_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
11/26/2024 12:42	14102	TRUM_T2	3	2	-1	0.4	0.5	0.1	-1.1	-1.03	3	3	0	2400	2400	0
11/26/2024 12:43	47203	FAXO_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
11/26/2024 12:43	47202	FAXO_T2	0	0	0	0	0	0	-1.02	-1	0	0	0	0	0	0
11/26/2024 12:44	67203	TEHI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/26/2024 12:44	67201	TEHI_T1	0	1	1	0	0.4	0.4	0.47	0.61	2	2	0	1500	1500	0
11/26/2024 12:45	41801	GOCI_T2	2	4	2	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
11/26/2024 12:47	62102	ELAN_T1	1	1	0	0.6	0.7	0.1	0.54	0.5	0	0	0	0	0	0
11/26/2024 12:51	46101	MACI_T2	0	0	0	0	0	0	0.18	0.17	1	1	0	1200	1200	0
11/26/2024 12:51	55101	WERT_T1	0	0	0	0	0	0	-0.86	-0.89	1	1	0	600	600	0
11/26/2024 12:52	13302	ORVI_T2	4	3	-1	0.53	1	0.47	1.41	1.37	0	0	0	0	0	0
11/26/2024 12:56	43302	WATS_T2	1	0	-1	0.1	0	-0.1	0.42	0.42	2	2	0	1800	1800	0
11/26/2024 12:56	43301	WATS_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/26/2024 12:58	62102	ELAN_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/26/2024 12:58	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 12:58	43301	WATS_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/26/2024 12:58	43302	WATS_T2	1	0	-1	0.1	0	-0.1	0.42	0.42	2	2	0	1800	1800	0
11/26/2024 13:00	64204	KINZ_T1	4	3	-1	0.48	0.7	0.22	0	0	0	0	0	0	0	0
11/26/2024 13:00	64202	KINZ_T1	4	3	-1	0.4	0.2	-0.2	0.62	0.55	0	0	0	0	0	0
11/26/2024 13:00	64305	LINC_T1	1	0	-1	0.5	0.3	-0.2	0.39	0.27	0	0	0	0	0	0
11/26/2024 13:01	63801	HEMP_T1	2	1	-1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
11/26/2024 13:01	63804	HEMP_T1	1	1	0	6.2	6.3	0.1	1.01	1.08	0	0	0	0	0	0
11/26/2024 13:01	63803	HEMP_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
11/26/2024 13:02	25402	LAHA_T2	0	0	0	0	0	0	-0.42	-0.51	0	0	0	0	0	0
11/26/2024 13:02	62102	ELAN_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
11/26/2024 13:02	62106	ELAN_T1	0	0	0	0	0	0	0.47	0.39	0	0	0	0	0	0
11/26/2024 13:03	43201	MVIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/26/2024 13:03	43202	MVIL_T2	25	63	38	0.18	0.39	0.21	-0.67	-0.65	0	0	0	0	0	0
11/26/2024 13:04	48901	FOSP_T2	0	0	0	0	0	0	-0.08	-0.12	1	1	0	600	600	0
11/26/2024 13:04	46506	LOHA_T1	3	3	0	3.9	4.33	0.43	0	0	0	0	0	0	0	0
11/26/2024 13:04	46504	LOHA_T1	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
11/26/2024 13:04	46501	LOHA_T1	0	0	0	0	0	0	-0.19	-0.24	1	1	0	1200	1200	0
11/26/2024 13:04	48902	FOSP_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/26/2024 13:05	52402	GRPA_T2	19	11	-8	0.53	0.66	0.13	0	0	0	0	0	0	0	0
11/26/2024 13:05	57702	PAXT_T1	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
11/26/2024 13:05	52403	GRPA_T2	49	30	-19	0.54	0.64	0.1	0	0	0	0	0	0	0	0
11/26/2024 13:05	52401	GRPA_T2	2	1	-1	0.55	0.6	0.05	-0.55	-0.51	0	0	0	0	0	0
11/26/2024 13:06	58401	MORO_T1	0	0	0	0	0	0	-1.16	-1.21	1	1	0	600	600	0
11/26/2024 13:06	58402	MORO_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/26/2024 13:06	65503	MOJO_T2	0	0	0	0	0	0	-0.01	-0.08	0	0	0	0	0	0
11/26/2024 13:07	44601	SALE_T2	0	0	0	0	0	0	0.92	0.48	1	1	0	600	600	0
11/26/2024 13:07	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.2	1	1	0	600	600	0
11/26/2024 13:07	60801	BUCK_T1	28	5	-23	0.24	0.3	0.06	-0.05	0.03	0	0	0	0	0	0
11/26/2024 13:07	60803	BUCK_T1	16	10	-6	0.38	0.26	-0.12	-0.54	-0.54	1	1	0	600	600	0
11/26/2024 13:07	58402	MORO_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/26/2024 13:08	60803	BUCK_T1	16	10	-6	0.38	0.26	-0.12	-1.62	-1.62	3	3	0	1800	1800	0
11/26/2024 13:08	60801	BUCK_T1	28	5	-23	0.24	0.3	0.06	0	0	0	0	0	0	0	0
11/26/2024 13:09	23001	SAJO_T1	0	0	0	0	0	0	0.07	0.11	0	0	0	0	0	0
11/26/2024 13:10	60801	BUCK_T1	28	5	-23	0.24	0.3	0.06	-0.05	0.03	0	0	0	0	0	0
11/26/2024 13:10	16101	BING_T2	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
11/26/2024 13:10	60803	BUCK_T1	16	10	-6	0.38	0.26	-0.12	0	0	0	0	0	0	0	0
11/26/2024 13:11	60803	BUCK_T1	16	10	-6	0.38	0.26	-0.12	-0.54	-0.54	1	1	0	600	600	0
11/26/2024 13:11	60801	BUCK_T1	28	5	-23	0.24	0.3	0.06	0	0	0	0	0	0	0	0
11/26/2024 13:12	11303	EMMA_T1	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
11/26/2024 13:12	11303	EMMA_T1	1	2	1	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
11/26/2024 13:13	46203	DANV_T2	2	7	5	0.35	0.36	0.01	-0.86	-0.82	0	0	0	0	0	0
11/26/2024 13:14	16101	BING_T2	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
11/26/2024 13:15	20603	GRWO_T2	0	0	0	0	0	0	-1.04	-0.99	1	1	0	1200	1200	0
11/26/2024 13:16	41801	GOCI_T2	3	2	-1	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
11/26/2024 13:20	13704	SCHN_T2	1	3	2	0.3	0.17	-0.13	-0.44	-0.43	0	0	0	0	0	0
11/26/2024 13:20	13701	SCHN_T2	3	1	-2	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
11/26/2024 13:28	20403	ASHF_T2	1	5	4	0.3	0.38	0.08	0.98	1.08	0	0	0	0	0	0
11/26/2024 13:28	11303	EMMA_T1	2	3	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
11/26/2024 13:28	17802	GILB_T1	2	2	0	0.85	0.9	0.05	0.06	0.04	0	0	0	0	0	0
11/26/2024 13:28	11301	EMMA_T1	0	0	0	0	0	0	-0.88	-0.85	0	0	0	0	0	0
11/26/2024 13:28	18001	ZION_T1	3	3	0	6.57	6.6	0.03	0	0	0	0	0	0	0	0
11/26/2024 13:28	20401	ASHF_T2	3	5	2	0.2	0.32	0.12	0	0	0	0	0	0	0	0
11/26/2024 13:29	23901	EFMO_T2	5	2	-3	0.18	0.6	0.42	-0.32	-0.33	0	0	0	0	0	0
11/26/2024 13:30	17802	GILB_T1	2	2	0	0.9	0.45	-0.45	0.06	0.04	0	0	0	0	0	0
11/26/2024 13:31	50501	MECH_T1	4	4	0	1.05	1.28	0.23	0.45	0.1	0	0	0	0	0	0
11/26/2024 13:31	50505	MECH_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/26/2024 13:31	50506	MECH_T1	0	1	1	0	0.2	0.2	-0.1	-0.05	0	0	0	0	0	0
11/26/2024 13:31	50502	MECH_T1	1	1	0	2.1	2.4	0.3	0	0	0	0	0	0	0	0
11/26/2024 13:32	50505	MECH_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/26/2024 13:32	50506	MECH_T1	0	1	1	0	0.2	0.2	-0.1	-0.05	0	0	0	0	0	0
11/26/2024 13:32	50501	MECH_T1	4	4	0	1.05	1.28	0.23	0	0	0	0	0	0	0	0
11/26/2024 13:32	50502	MECH_T1	1	1	0	2.1	2.4	0.3	0	0	0	0	0	0	0	0
11/26/2024 13:32	41801	GOCI_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/26/2024 13:36	50501	MECH_T1	4	4	0	1.05	1.28	0.23	0	0	0	0	0	0	0	0
11/26/2024 13:36	48902	FOSP_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/26/2024 13:36	48901	FOSP_T2	0	0	0	0	0	0	-0.16	-0.23	1	1	0	600	600	0
11/26/2024 13:36	50506	MECH_T1	0	1	1	0	0.2	0.2	-0.1	-0.05	0	0	0	0	0	0
11/26/2024 13:36	50505	MECH_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/26/2024 13:36	50502	MECH_T1	1	1	0	2.1	2.4	0.3	0	0	0	0	0	0	0	0
11/26/2024 13:40	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.33	0	0	0	0	0	0
11/26/2024 13:43	40802	EXCH_T2	0	1	1	0	0.3	0.3	-0.35	-0.29	0	0	0	0	0	0
11/26/2024 13:45	40802	EXCH_T2	1	1	0	0.3	0.1	-0.2	-0.35	-0.29	0	0	0	0	0	0
11/26/2024 13:48	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 13:57	57401	SPAN_T1	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0	0
11/26/2024 13:57	57403	SPAN_T1	4	2	-2	0.15	0.15	0	-0.05	-0.06	0	0	0	0	0	0
11/26/2024 14:03	64401	LAND_T1	0	0	0	0	0	0	-0.85	-0.85	1	1	0	600	600	0
11/26/2024 14:07	54601	SUMM_T2	13	13	0	0.56	0.71	0.15	-3.04	-3.02	2	2	0	2100	2100	0
11/26/2024 14:07	54602	SUMM_T2	10	10	0	0.17	0.45	0.28	0	0	0	0	0	0	0	0
11/26/2024 14:08	54602	SUMM_T2	10	10	0	0.17	0.45	0.28	0	0	0	0	0	0	0	0
11/26/2024 14:08	54601	SUMM_T2	13	13	0	0.56	0.71	0.15	-3.04	-3.02	2	2	0	2100	2100	0
11/26/2024 14:10	15204	SFAR_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
11/26/2024 14:10	54601	SUMM_T2	13	13	0	0.56	0.71	0.15	-3.04	-3.02	2	2	0	2100	2100	0
11/26/2024 14:10	57201	ROSS_T1	2	1	-1	0.1	0.1	0	-0.47	-0.49	0	0	0	0	0	0
11/26/2024 14:10	54602	SUMM_T2	10	10	0	0.17	0.45	0.28	0	0	0	0	0	0	0	0
11/26/2024 14:10	57205	ROSS_T1	2	3	1	0.55	0.33	-0.22	0	0	0	0	0	0	0	0
11/26/2024 14:11	55105	WERT_T1	0	0	0	0	0	0	-0.72	-0.78	1	1	0	900	900	0
11/26/2024 14:11	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 14:16	46001	BERW_T1	0	0	0	0	0	0	0.76	0.8	0	0	0	0	0	0
11/26/2024 14:19	67402	WAKE_T2	0	0	0	0	0	0	1	1.03	0	0	0	0	0	0
11/26/2024 14:21	67106	SPRI_T2	0	0	0	0	0	0	-1.34	-1.36	1	1	0	900	900	0
11/26/2024 14:22	67106	SPRI_T2	0	0	0	0	0	0	-1.34	-1.36	1	1	0	900	900	0
11/26/2024 14:23	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 14:25	47203	FAXO_T2	1	1	0	1.1	1	-0.1	-0.41	-0.4	0	0	0	0	0	0
11/26/2024 14:26	24801	VALM_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/26/2024 14:28	10705	CATA_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
11/26/2024 14:28	10702	CATA_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
11/26/2024 14:29	67402	WAKE_T2	0	0	0	0	0	0	1.03	1.02	0	0	0	0	0	0
11/26/2024 14:29	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 14:29	44502	HAMI_T2	1	1	0	2.8	3.2	0.4	0	0	0	0	0	0	0	0
11/26/2024 14:31	44505	HAMI_T2	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
11/26/2024 14:31	44502	HAMI_T2	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
11/26/2024 14:32	50502	MECH_T1	1	1	0	2.5	2.5	0	0	0	0	0	0	0	0	0
11/26/2024 14:32	10702	CATA_T2	1	1	0	0.7	0.7	0	-0.82	-0.83	0	0	0	0	0	0
11/26/2024 14:32	44505	HAMI_T2	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
11/26/2024 14:32	50505	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/26/2024 14:32	10705	CATA_T2	1	0	-1	0.1	0	-0.1	-0.16	0.02	0	0	0	0	0	0
11/26/2024 14:32	50501	MECH_T1	4	4	0	1.35	1.45	0.1	-0.02	0.11	0	0	0	0	0	0
11/26/2024 14:32	44502	HAMI_T2	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
11/26/2024 14:34	13101	NHAM_T1	0	0	0	0	0	0	-2.24	-2.39	2	2	0	2400	2400	0
11/26/2024 14:38	15203	SFAR_T2	0	0	0	0	0	0	-1.38	-1.35	0	0	0	0	0	0
11/26/2024 14:46	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.02	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/26/2024 14:52	10903	COOP_T2	1	2	1	0.1	0.15	0.05	-0.02	-0.32	1	1	0	600	600	0
11/26/2024 14:57	65206	PRIN_T4	1	1	0	5	0	-5	0	0	0	0	0	0	0	0
11/26/2024 14:57	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 14:57	65207	PRIN_T4	8	22	14	0.15	0.18	0.03	0	0	0	0	0	0	0	0
11/26/2024 14:59	47203	FAXO_T2	1	1	0	1	0.6	-0.4	-0.43	-0.42	0	0	0	0	0	0
11/26/2024 15:01	41001	LAUR_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/26/2024 15:01	41002	LAUR_T2	1	1	0	2.3	1.3	-1	0	0	0	0	0	0	0	0
11/26/2024 15:02	53901	HALI_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
11/26/2024 15:02	10702	CATA_T2	1	1	0	0.6	0.5	-0.1	-0.85	-0.86	0	0	0	0	0	0
11/26/2024 15:02	53903	HALI_T2	5	3	-2	0.88	1.27	0.39	0	0	0	0	0	0	0	0
11/26/2024 15:02	53902	HALI_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
11/26/2024 15:02	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 15:02	10101	ALLE_T3	2	2	0	5.7	4	-1.7	0	0	0	0	0	0	0	0
11/26/2024 15:03	65003	NEFF_T2	5	5	0	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
11/26/2024 15:03	65004	NEFF_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
11/26/2024 15:04	65003	NEFF_T2	5	5	0	0.2	0.14	-0.06	-1.86	-1.76	2	2	0	1800	1800	0
11/26/2024 15:04	41204	KENM_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
11/26/2024 15:05	43202	MVIL_T2	58	67	9	0.39	0.5	0.11	-1.24	-1.26	0	0	0	0	0	0
11/26/2024 15:06	65003	NEFF_T2	5	5	0	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
11/26/2024 15:11	60803	BUCK_T1	16	14	-2	0.37	0.21	-0.16	0	0	0	0	0	0	0	0
11/26/2024 15:11	60801	BUCK_T1	15	8	-7	0.16	0.13	-0.03	0	0.01	0	0	0	0	0	0
11/26/2024 15:12	42601	TUSC_T1	0	1	1	0	0.2	0.2	-0.26	-0.25	2	2	0	1800	1800	0
11/26/2024 15:13	59002	MIFF_T1	1	6	5	0.1	0.63	0.53	0	0	0	0	0	0	0	0
11/26/2024 15:13	59003	MIFF_T1	0	1	1	0	0.4	0.4	-0.4	-0.31	0	0	0	0	0	0
11/26/2024 15:14	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 15:15	24104	EHAZ_T1	0	0	0	0	0	0	-0.88	-0.89	1	1	0	1200	1200	0
11/26/2024 15:15	24105	EHAZ_T1	4	4	0	6.48	6.4	-0.08	0	0	0	0	0	0	0	0
11/26/2024 15:15	24101	EHAZ_T1	6	0	-6	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/26/2024 15:15	24102	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 15:18	43202	MVIL_T2	64	85	21	0.51	0.59	0.08	-0.63	-0.66	0	0	0	0	0	0
11/26/2024 15:20	46101	MACI_T2	0	0	0	0	0	0	-0.08	-0.1	1	1	0	1200	1200	0
11/26/2024 15:20	59003	MIFF_T1	1	1	0	0.4	0.2	-0.2	-0.4	-0.31	0	0	0	0	0	0
11/26/2024 15:20	43202	MVIL_T2	64	85	21	0.51	0.59	0.08	-0.63	-0.66	0	0	0	0	0	0
11/26/2024 15:20	59002	MIFF_T1	6	4	-2	0.63	0.2	-0.43	0	0	0	0	0	0	0	0
11/26/2024 15:23	40801	EXCH_T2	3	4	1	0.33	0.3	-0.03	-0.54	-0.53	1	1	0	1200	1200	0
11/26/2024 15:23	40802	EXCH_T2	11	12	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/26/2024 15:31	50505	MECH_T1	0	0	0	0	0	0	-0.93	-0.91	0	0	0	0	0	0
11/26/2024 15:31	50502	MECH_T1	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
11/26/2024 15:31	50501	MECH_T1	4	4	0	1.13	1.1	-0.03	0	0	0	0	0	0	0	0
11/26/2024 15:34	65601	QVIL_T2	3	29	26	0.1	0.14	0.04	0	0	0	0	0	0	0	0
11/26/2024 15:34	65603	QVIL_T2	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
11/26/2024 15:35	63501	HEID_TBK1-2	14	19	5	0.25	0.23	-0.02	-0.11	-0.5	1	1	0	900	900	0
11/26/2024 15:36	50502	MECH_T1	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
11/26/2024 15:36	50505	MECH_T1	0	0	0	0	0	0	-0.93	-0.91	0	0	0	0	0	0
11/26/2024 15:36	50506	MECH_T1	0	0	0	0	0	0	-0.15	0.04	0	0	0	0	0	0
11/26/2024 15:36	50501	MECH_T1	4	4	0	1.13	1.1	-0.03	0	0	0	0	0	0	0	0
11/26/2024 15:48	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
11/26/2024 15:48	63803	HEMP_T1	0	0	0	0	0	0	0.17	0.1	0	0	0	0	0	0
11/26/2024 15:54	13704	SCHN_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
11/26/2024 15:54	13701	SCHN_T2	0	0	0	0	0	0	-0.15	-0.18	1	1	0	600	600	0
11/26/2024 16:01	63601	LETO_T1	4	0	-4	0.53	0	-0.53	1.07	1.32	1	1	0	900	900	0
11/26/2024 16:10	10705	CATA_T2	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
11/26/2024 16:10	15201	SFAR_T1	0	0	0	0	0	0	-0.79	-0.8	2	2	0	1800	1800	0
11/26/2024 16:10	10702	CATA_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
11/26/2024 16:12	15203	SFAR_T2	0	0	0	0	0	0	-1.39	-1.38	0	0	0	0	0	0
11/26/2024 16:17	54505	ENOL_T2	1	1	0	0.7	0.6	-0.1	-1.42	-1.4	1	1	0	600	600	0
11/26/2024 16:17	54502	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/26/2024 16:17	67203	TEHI_T1	0	0	0	0	0	0	2.13	2.25	2	2	0	1500	1500	0
11/26/2024 16:18	46602	LACR_T1	0	0	0	0	0	0	-1.09	-1.06	0	0	0	0	0	0
11/26/2024 16:21	55001	NEWP_T1	1	1	0	0.5	0.2	-0.3	-0.32	-0.29	0	0	0	0	0	0
11/26/2024 16:21	55002	NEWP_T1	6	6	0	1.4	1.28	-0.12	0	0	0	0	0	0	0	0
11/26/2024 17:45	65503	MOJO_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
11/26/2024 17:45	65502	MOJO_T2	0	22	22	0	0.1	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:34	17002	RIRO_T2	6	6	0	0.12	0.1	-0.02	0.36	0.32	0	0	0	0	0	0
11/26/2024 18:37	61001	DONV_T1	0	0	0	0	0	0	-0.62	-0.56	0	0	0	0	0	0
11/26/2024 18:37	20401	ASHF_T2	0	2	2	0	0.2	0.2	-0.3	-0.26	0	0	0	0	0	0
11/26/2024 18:38	15203	SFAR_T2	0	0	0	0	0	0	-1.32	-1.34	0	0	0	0	0	0
11/26/2024 18:39	54505	ENOL_T2	1	1	0	0.2	0.4	0.2	-1.33	-1.33	1	1	0	600	600	0
11/26/2024 18:40	17802	GILB_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
11/26/2024 18:40	65001	NEFF_T2	0	0	0	0	0	0	0.19	0.23	0	0	0	0	0	0
11/26/2024 18:40	16101	BING_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
11/26/2024 18:40	14203	EALL_T1	0	0	0	0	0	0	0.78	0.86	0	0	0	0	0	0
11/26/2024 18:41	17802	GILB_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
11/26/2024 18:42	10101	ALLE_T3	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:42	10705	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:42	13303	ORVI_T1	0	0	0	0	0	0	0.89	0.9	0	0	0	0	0	0
11/26/2024 18:42	10702	CATA_T2	1	1	0	0.4	0.4	0	-0.95	-0.94	0	0	0	0	0	0
11/26/2024 18:42	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:42	12801	MICK_T1	0	0	0	0	0	0	-0.3	-0.32	1	1	0	600	600	0
11/26/2024 18:42	12803	MICK_T1	1	1	0	4.7	4.8	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:43	46002	BERW_T2	0	0	0	0	0	0	-1.07	-1.17	1	1	0	900	900	0
11/26/2024 18:43	47401	PENS_T1	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
11/26/2024 18:43	65004	NEFF_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
11/26/2024 18:43	46001	BERW_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
11/26/2024 18:43	65207	PRIN_T4	8	17	9	0.66	0.54	-0.12	0	0	0	0	0	0	0	0
11/26/2024 18:43	60803	BUCK_T1	0	2	2	0	0.1	0.1	-0.53	-0.52	1	1	0	600	600	0
11/26/2024 18:43	47403	PENS_T1	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
11/26/2024 18:43	44601	SALE_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
11/26/2024 18:43	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:43	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/26/2024 18:43	46001	BERW_T2	1	2	1	0.7	0	-0.7	0	0	0	0	0	0	0	0
11/26/2024 18:44	63501	HEID_TBK1-2	1	1	0	0.7	1	0.3	0.36	0.43	0	0	0	0	0	0
11/26/2024 18:44	10101	ALLE_T3	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:44	14201	EALL_T1	0	0	0	0	0	0	0.42	0.49	0	0	0	0	0	0
11/26/2024 18:44	21206	ECAR_T2	1	2	1	6.9	3.55	-3.35	0.07	0.05	0	0	0	0	0	0
11/26/2024 18:44	15203	SFAR_T2	0	0	0	0	0	0	-2.64	-2.68	0	0	0	0	0	0
11/26/2024 18:44	64903	MILL_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
11/26/2024 18:44	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:44	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:44	10903	COOP_T2	0	0	0	0	0	0	-0.27	-0.27	1	1	0	600	600	0
11/26/2024 18:44	10705	CATA_T2	0	1	1	0	0	0	-0.03	-0.03	0	0	0	0	0	0
11/26/2024 18:44	16101	BING_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
11/26/2024 18:44	40802	EXCH_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
11/26/2024 18:44	10702	CATA_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/26/2024 18:45	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:45	64503	LAVI_T1	5	23	18	0.12	0.27	0.15	0	0	0	0	0	0	0	0
11/26/2024 18:45	50502	MECH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
11/26/2024 18:45	25402	LAHA_T2	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
11/26/2024 18:45	64502	LAVI_T1	90	286	196	0.14	0.32	0.18	0	0	0	0	0	0	0	0
11/26/2024 18:45	67002	STHI_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
11/26/2024 18:45	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
11/26/2024 18:45	47203	FAXO_T2	0	1	1	0	1	1	-0.41	-0.37	0	0	0	0	0	0
11/26/2024 18:45	64903	MILL_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
11/26/2024 18:45	50501	MECH_T1	4	4	0	0.98	1.08	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:45	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/26/2024 18:45	50505	MECH_T1	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
11/26/2024 18:45	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:45	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
11/26/2024 18:45	64201	KINZ_T1	2	2	0	1.25	0.5	-0.75	-0.42	-0.44	3	3	0	1500	1500	0
11/26/2024 18:45	65802	RTWN_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
11/26/2024 18:45	17802	GILB_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
11/26/2024 18:45	64501	LAVI_T1	43	84	41	0.15	0.23	0.08	-0.44	-0.41	0	0	0	0	0	0
11/26/2024 18:45	20401	ASHF_T2	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:46	64801	MONE_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
11/26/2024 18:46	67604	WARW_T1	0	0	0	0	0	0	-0.14	-0.06	0	0	0	0	0	0
11/26/2024 18:46	11301	EMMA_T1	0	0	0	0	0	0	-0.85	-0.84	0	0	0	0	0	0
11/26/2024 18:46	11904	ETEX_T2	0	0	0	0	0	0	0.39	0.43	0	0	0	0	0	0
11/26/2024 18:46	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/26/2024 18:46	60201	ATGL_T2	8	9	1	0.16	0.14	-0.02	-0.2	-0.19	0	0	0	0	0	0
11/26/2024 18:46	14802	TREI_T2	0	1	1	0	0	0	0.81	0.83	0	0	0	0	0	0
11/26/2024 18:46	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:46	67605	WARW_T1	10	7	-3	0.26	0.36	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:46	10204	ALLE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:46	13701	SCHN_T2	0	0	0	0	0	0	-0.12	-0.12	1	1	0	600	600	0
11/26/2024 18:46	64401	LAND_T1	0	0	0	0	0	0	-1.18	-1.16	1	1	0	600	600	0
11/26/2024 18:46	14801	TREI_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
11/26/2024 18:46	10702	CATA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/26/2024 18:46	46506	LOHA_T1	3	3	0	2.7	2.7	0	0	0	0	0	0	0	0	0
11/26/2024 18:46	10206	ALLE_T2	1	1	0	2.2	1.6	-0.6	0	0	0	0	0	0	0	0
11/26/2024 18:46	12803	MICK_T1	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
11/26/2024 18:46	60501	NMAN_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
11/26/2024 18:46	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:46	67401	WAKE_T2	0	0	0	0	0	0	-1.22	-1.24	0	0	0	0	0	0
11/26/2024 18:46	14404	SSLA_T1	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
11/26/2024 18:46	15201	SFAR_T1	0	0	0	0	0	0	-1.66	-1.56	2	2	0	2400	2400	0
11/26/2024 18:46	42902	MIDD_T2	0	0	0	0	0	0	-1.18	-1.09	1	1	0	600	600	0
11/26/2024 18:46	54601	SUMM_T2	1	1	0	0.2	0.2	0	-3.01	-2.99	2	2	0	2100	2100	0
11/26/2024 18:46	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:46	67002	STHI_T2	0	0	0	0	0	0	1.12	1.1	0	0	0	0	0	0
11/26/2024 18:46	14203	EALL_T1	0	0	0	0	0	0	0.78	0.86	0	0	0	0	0	0
11/26/2024 18:46	46602	LACR_T1	0	0	0	0	0	0	-1	-1.04	0	0	0	0	0	0
11/26/2024 18:46	60502	NMAN_T2	0	0	0	0	0	0	-0.35	-0.08	0	0	0	0	0	0
11/26/2024 18:46	10705	CATA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/26/2024 18:46	23901	EFMO_T2	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
11/26/2024 18:46	43202	MVIL_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
11/26/2024 18:46	12802	MICK_T1	0	0	0	0	0	0	-1.34	-1.35	0	0	0	0	0	0
11/26/2024 18:46	10102	ALLE_T2	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:46	15103	LIPHA_T2	0	0	0	0	0	0	0.34	0.39	0	0	0	0	0	0
11/26/2024 18:46	46501	LOHA_T1	0	1	1	0	0	0	-0.15	-0.18	1	1	0	1200	1200	0
11/26/2024 18:47	64302	LINC_T2	0	0	0	0	0	0	0.98	0.96	0	0	0	0	0	0
11/26/2024 18:47	65603	QVIL_T2	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
11/26/2024 18:47	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0.06	0.06	0	0	0	0	0	0
11/26/2024 18:47	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/26/2024 18:47	46004	BERW_T2	0	2	2	0	1.05	1.05	-0.43	-0.45	0	0	0	0	0	0
11/26/2024 18:47	60301	TWVA_T2	0	0	0	0	0	0	-1.46	-1.46	1	1	0	1200	1200	0
11/26/2024 18:47	54506	ENOL_T2	0	0	0	0	0	0	0.45	0.48	1	1	0	600	600	0
11/26/2024 18:47	46101	MACI_T2	0	0	0	0	0	0	0.73	0.7	0	0	0	0	0	0
11/26/2024 18:47	48901	FOSP_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
11/26/2024 18:47	63501	HEID_TBK1-2	1	1	0	1	0.4	-0.6	0.36	0.43	0	0	0	0	0	0
11/26/2024 18:47	65601	QVIL_T2	3	16	13	0.1	0.14	0.04	0	0	0	0	0	0	0	0
11/26/2024 18:47	60903	DONG_T2	0	0	0	0	0	0	0.85	0.82	1	1	0	600	600	0
11/26/2024 18:47	45501	DERR_T2	0	2	2	0	0	0	0.62	0.62	2	2	0	1800	1800	0
11/26/2024 18:47	60901	DONG_T2	0	13	13	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:47	55002	NEWP_T1	4	6	2	0.7	1	0.3	-0.26	-0.26	0	0	0	0	0	0
11/26/2024 18:47	67002	STHI_T2	0	0	0	0	0	0	1.68	1.65	0	0	0	0	0	0
11/26/2024 18:48	64501	LAVI_T1	43	84	41	0.15	0.23	0.08	0	0	0	0	0	0	0	0
11/26/2024 18:48	64503	LAVI_T1	5	23	18	0.12	0.27	0.15	-0.52	-0.55	1	1	0	1200	1200	0
11/26/2024 18:48	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/26/2024 18:48	20403	ASHF_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
11/26/2024 18:48	20401	ASHF_T2	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:48	40802	EXCH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:48	67002	STHI_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
11/26/2024 18:48	55002	NEWP_T1	4	6	2	0.7	1	0.3	-0.26	-0.26	0	0	0	0	0	0
11/26/2024 18:48	60801	BUCK_T1	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
11/26/2024 18:48	15204	SFAR_T2	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
11/26/2024 18:48	53903	HALI_T2	2	2	0	1.3	1.35	0.05	-0.16	-0.16	0	0	0	0	0	0
11/26/2024 18:48	40801	EXCH_T2	0	0	0	0	0	0	-0.5	-0.52	1	1	0	1200	1200	0
11/26/2024 18:48	67401	WAKE_T2	0	0	0	0	0	0	-1.22	-1.24	0	0	0	0	0	0
11/26/2024 18:48	15201	SFAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:48	11202	ELHE_T2	0	0	0	0	0	0	0.37	0.37	1	1	0	1200	1200	0
11/26/2024 18:48	64502	LAVI_T1	90	286	196	0.14	0.32	0.18	0	0	0	0	0	0	0	0
11/26/2024 18:48	10702	CATA_T2	1	1	0	0.4	0.3	-0.1	-0.95	-0.94	0	0	0	0	0	0
11/26/2024 18:48	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
11/26/2024 18:48	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/26/2024 18:48	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:48	60803	BUCK_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/26/2024 18:48	10705	CATA_T2	1	0	-1	0.4	0	-0.4	-0.03	-0.03	0	0	0	0	0	0
11/26/2024 18:48	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:48	53902	HALI_T2	1	2	1	5.1	5.4	0.3	0	0	0	0	0	0	0	0
11/26/2024 18:48	10801	CHHI_T1	0	1	1	0	0	0	-0.96	-0.95	1	1	0	900	900	0
11/26/2024 18:48	14102	TRUM_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
11/26/2024 18:48	44505	HAMI_T2	0	1	1	0	0	0	-0.01	-0.05	0	0	0	0	0	0
11/26/2024 18:48	44502	HAMI_T2	1	2	1	3.2	3.3	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:48	10701	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:48	14103	TRUM_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:48	11904	ETEX_T2	0	0	0	0	0	0	0.19	0.22	0	0	0	0	0	0
11/26/2024 18:48	46101	MACI_T2	0	0	0	0	0	0	0.73	0.7	0	0	0	0	0	0
11/26/2024 18:49	63601	LETO_T1	0	0	0	0	0	0	1.33	1.3	1	1	0	900	900	0
11/26/2024 18:49	25503	MADI_T1	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
11/26/2024 18:49	45501	DERR_T2	0	2	2	0	0	0	0.62	0.62	2	2	0	1800	1800	0
11/26/2024 18:49	60301	TWVA_T2	0	0	0	0	0	0	-2.92	-2.92	2	2	0	2400	2400	0
11/26/2024 18:49	60501	NMAN_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
11/26/2024 18:49	60502	NMAN_T2	0	0	0	0	0	0	-0.35	-0.08	0	0	0	0	0	0
11/26/2024 18:49	25501	MADI_T1	4	3	-1	1.8	1.4	-0.4	0	0	0	0	0	0	0	0
11/26/2024 18:49	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:49	41204	KENM_T2	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
11/26/2024 18:49	63501	HEID_TBK1-2	1	1	0	1	0.4	-0.6	0.36	0.43	0	0	0	0	0	0
11/26/2024 18:49	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:49	67106	SPRI_T2	0	0	0	0	0	0	-1.36	-1.34	1	1	0	900	900	0
11/26/2024 18:50	45702	LIND_T2	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
11/26/2024 18:50	54201	PENN_T1	5	7	2	0.86	0.74	-0.12	0.04	0.03	0	0	0	0	0	0
11/26/2024 18:50	54501	ENOL_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
11/26/2024 18:50	64801	MONE_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
11/26/2024 18:50	48901	FOSP_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
11/26/2024 18:50	55002	NEWP_T1	4	6	2	0.7	1	0.3	-0.26	-0.26	0	0	0	0	0	0
11/26/2024 18:50	65601	QVIL_T2	3	16	13	0.1	0.14	0.04	-1.21	-1.19	1	1	0	900	900	0
11/26/2024 18:50	21901	HUMB_T1	0	0	0	0	0	0	-0.28	-0.11	0	0	0	0	0	0
11/26/2024 18:50	10801	CHHI_T1	0	1	1	0	0	0	-0.96	-0.95	1	1	0	900	900	0
11/26/2024 18:50	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
11/26/2024 18:50	65802	RTWN_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
11/26/2024 18:50	14802	TREI_T2	0	1	1	0	0	0	0.4	0.41	0	0	0	0	0	0
11/26/2024 18:50	65401	MARI_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
11/26/2024 18:50	43302	WATS_T2	4	4	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:50	60501	NMAN_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
11/26/2024 18:50	60502	NMAN_T2	0	0	0	0	0	0	-0.35	-0.08	0	0	0	0	0	0
11/26/2024 18:50	40703	FFLD_T1	4	4	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
11/26/2024 18:50	14404	SSLA_T1	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
11/26/2024 18:50	48902	FOSP_T2	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
11/26/2024 18:50	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0.06	0.06	0	0	0	0	0	0
11/26/2024 18:50	24104	EHAZ_T1	0	0	0	0	0	0	-0.87	-0.89	1	1	0	1200	1200	0
11/26/2024 18:50	40702	FFLD_T1	68	100	32	0.19	0.24	0.05	0	0	0	0	0	0	0	0
11/26/2024 18:50	24105	EHAZ_T1	4	4	0	7.1	7.3	0.2	0	0	0	0	0	0	0	0
11/26/2024 18:50	45501	DERR_T2	0	2	2	0	0	0	0.62	0.62	2	2	0	1800	1800	0
11/26/2024 18:50	45701	LIND_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
11/26/2024 18:50	15203	SFAR_T2	0	0	0	0	0	0	-1.32	-1.34	0	0	0	0	0	0
11/26/2024 18:50	10705	CATA_T2	1	0	-1	0.4	0	-0.4	-0.03	-0.03	0	0	0	0	0	0
11/26/2024 18:50	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:50	14401	SSLA_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
11/26/2024 18:50	43202	MVIL_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
11/26/2024 18:50	54203	PENN_T1	18	18	0	0.82	0.92	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:50	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:50	65402	MARI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:50	24102	EHAZ_T1	21	7	-14	0.43	0.43	0	0	0	0	0	0	0	0	0
11/26/2024 18:50	10702	CATA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/26/2024 18:50	24101	EHAZ_T1	13	22	9	0.77	0.88	0.11	0	0	0	0	0	0	0	0
11/26/2024 18:50	40701	FFLD_T1	34	49	15	0.63	0.48	-0.15	0	0	0	0	0	0	0	0
11/26/2024 18:50	43301	WATS_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
11/26/2024 18:51	67002	STHI_T2	0	0	0	0	0	0	1.1	1.12	0	0	0	0	0	0
11/26/2024 18:51	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/26/2024 18:51	60502	NMAN_T2	0	0	0	0	0	0	-0.08	-0.3	0	0	0	0	0	0
11/26/2024 18:51	45802	HEGI_T2	6	47	41	0.38	1	0.62	0	0	0	0	0	0	0	0
11/26/2024 18:51	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:51	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:51	42902	MIDD_T2	0	0	0	0	0	0	-1.18	-1.09	1	1	0	600	600	0
11/26/2024 18:51	40802	EXCH_T2	0	1	1	0	0	0	-0.25	-0.25	0	0	0	0	0	0
11/26/2024 18:51	54504	ENOL_T2	0	0	0	0	0	0	-1.06	-1.07	1	1	0	600	600	0
11/26/2024 18:51	60501	NMAN_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
11/26/2024 18:51	48901	FOSP_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
11/26/2024 18:51	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/26/2024 18:51	20601	GRWO_T2	1	1	0	2.9	0	-2.9	0	0	0	0	0	0	0	0
11/26/2024 18:51	43202	MVIL_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
11/26/2024 18:51	20603	GRWO_T2	0	0	0	0	0	0	-0.64	-0.64	0	1	1	0	900	900
11/26/2024 18:51	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
11/26/2024 18:51	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/26/2024 18:51	57401	SPAN_T1	2	2	0	0.6	1.05	0.45	0	0	0	0	0	0	0	0
11/26/2024 18:51	57403	SPAN_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
11/26/2024 18:51	64802	MONE_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
11/26/2024 18:51	64305	LINC_T1	0	0	0	0	0	0	-0.36	-0.44	0	0	0	0	0	0
11/26/2024 18:51	64201	KINZ_T1	2	2	0	1.25	0.5	-0.75	-0.88	-0.84	6	6	0	3000	3000	0
11/26/2024 18:52	46506	LOHA_T1	3	3	0	2.7	2.7	0	0	0	0	0	0	0	0	0
11/26/2024 18:52	46004	BERW_T2	0	2	2	0	1.05	1.05	-0.45	-0.41	0	0	0	0	0	0
11/26/2024 18:52	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
11/26/2024 18:52	60201	ATGL_T2	8	9	1	0.16	0.14	-0.02	-0.19	-0.23	0	0	0	0	0	0
11/26/2024 18:52	13302	ORVI_T2	0	0	0	0	0	0	1.43	1.33	0	0	0	0	0	0
11/26/2024 18:52	62106	ELAN_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
11/26/2024 18:52	10702	CATA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
11/26/2024 18:52	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/26/2024 18:52	12006	HATF_T1	0	0	0	0	0	0	1.06	1.04	0	0	0	0	0	0
11/26/2024 18:52	53903	HALI_T2	2	2	0	1.3	1.35	0.05	0	0	0	0	0	0	0	0
11/26/2024 18:52	58003	WCAR_T1	1	1	0	1.3	1.3	0	0.51	0.49	0	0	0	0	0	0
11/26/2024 18:52	10705	CATA_T2	1	0	-1	0.4	0	-0.4	-0.06	-0.02	0	0	0	0	0	0
11/26/2024 18:52	65503	MOJO_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
11/26/2024 18:52	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
11/26/2024 18:52	53902	HALI_T2	1	2	1	5.1	5.4	0.3	0	0	0	0	0	0	0	0
11/26/2024 18:52	63501	HEID_TBK1-2	1	1	0	1	0.4	-0.6	0.43	0.33	0	0	0	0	0	0
11/26/2024 18:52	58001	WCAR_T1	4	4	0	0.98	1.03	0.05	0	0	0	0	0	0	0	0
11/26/2024 18:52	41002	LAUR_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
11/26/2024 18:52	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:52	61304	EARL_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	600	600	0
11/26/2024 18:52	41001	LAUR_T2	1	1	0	1.4	1.9	0.5	0	0	0	0	0	0	0	0
11/26/2024 18:52	65502	MOJO_T2	103	123	20	0.11	0.11	0	0	0	0	0	0	0	0	0
11/26/2024 18:52	53901	HALI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:52	46001	BERW_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
11/26/2024 18:52	57203	ROSS_T1	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
11/26/2024 18:52	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:52	63803	HEMP_T1	0	0	0	0	0	0	0.52	0.57	0	0	0	0	0	0
11/26/2024 18:52	50501	MECH_T1	4	4	0	0.98	1.08	0.1	-0.27	-0.31	0	0	0	0	0	0
11/26/2024 18:52	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:52	45501	DERR_T2	0	2	2	0	0	0	0.62	0.62	2	2	0	1800	1800	0
11/26/2024 18:52	50502	MECH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
11/26/2024 18:52	54601	SUMM_T2	1	1	0	0.2	0.2	0	-2.99	-3.02	2	2	0	2100	2100	0
11/26/2024 18:53	54603	SUMM_T2	0	0	0	0	0	0	-0.56	-0.55	1	1	0	900	900	0
11/26/2024 18:53	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
11/26/2024 18:53	63501	HEID_TBK1-2	1	1	0	1	0.4	-0.6	0.43	0.33	0	0	0	0	0	0
11/26/2024 18:53	65205	PRIN_T1	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:53	64202	KINZ_T1	0	0	0	0	0	0	0.67	0.7	0	0	0	0	0	0
11/26/2024 18:53	52402	GRPA_T2	3	3	0	0.57	0.7	0.13	-0.93	-0.94	0	0	0	0	0	0
11/26/2024 18:53	54601	SUMM_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/26/2024 18:53	46502	LOHA_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
11/26/2024 18:53	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:53	60501	NMAN_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
11/26/2024 18:53	65202	PRIN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/26/2024 18:53	40802	EXCH_T2	0	1	1	0	0	0	-0.25	-0.25	0	0	0	0	0	0
11/26/2024 18:53	52403	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/26/2024 18:53	43202	MVIL_T2	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
11/26/2024 18:53	65003	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/26/2024 18:53	64201	KINZ_T1	2	2	0	1.25	0.5	-0.75	0	0	0	0	0	0	0	0
11/26/2024 18:53	43302	WATS_T2	4	4	0	0.45	0.55	0.1	-0.46	-0.46	2	2	0	1800	1800	0
11/26/2024 18:53	57201	ROSS_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
11/26/2024 18:53	46004	BERW_T2	0	2	2	0	1.05	1.05	-0.45	-0.41	0	0	0	0	0	0
11/26/2024 18:53	58202	NEWV_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
11/26/2024 18:53	55002	NEWP_T1	4	6	2	0.7	1	0.3	-0.26	-0.28	0	0	0	0	0	0
11/26/2024 18:53	55001	NEWP_T1	0	0	0	0	0	0	-0.36	-0.33	0	0	0	0	0	0
11/26/2024 18:53	67402	WAKE_T2	0	0	0	0	0	0	0.18	0.13	0	0	0	0	0	0
11/26/2024 18:53	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:53	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
11/26/2024 18:53	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:53	46506	LOHA_T1	3	3	0	2.7	2.7	0	0	0	0	0	0	0	0	0
11/26/2024 18:53	55101	WERT_T1	0	0	0	0	0	0	-1.17	-1.15	1	1	0	600	600	0
11/26/2024 18:53	60502	NMAN_T2	0	0	0	0	0	0	-0.08	-0.3	0	0	0	0	0	0
11/26/2024 18:54	60501	NMAN_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
11/26/2024 18:54	59002	MIFF_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
11/26/2024 18:54	54601	SUMM_T2	1	1	0	0.2	0.2	0	-2.99	-3.02	2	2	0	2100	2100	0
11/26/2024 18:54	40802	EXCH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:54	14103	TRUM_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:54	24703	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:54	14204	EALL_T2	0	0	0	0	0	0	0.23	0.12	0	0	0	0	0	0
11/26/2024 18:54	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0.06	0.06	0	0	0	0	0	0
11/26/2024 18:54	15103	LIPHA_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
11/26/2024 18:54	57401	SPAN_T1	2	2	0	0.6	1.05	0.45	0	0	0	0	0	0	0	0
11/26/2024 18:54	46001	BERW_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
11/26/2024 18:54	44502	HAMI_T2	1	2	1	3.2	3.3	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:54	11301	EMMA_T1	0	0	0	0	0	0	-0.84	-0.86	0	0	0	0	0	0
11/26/2024 18:54	57403	SPAN_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
11/26/2024 18:54	60803	BUCK_T1	1	2	1	0.1	0.1	0	-0.52	-0.54	1	1	0	600	600	0
11/26/2024 18:54	14403	SSLA_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
11/26/2024 18:54	18001	ZION_T1	2	2	0	8.85	9.15	0.3	0	0	0	0	0	0	0	0
11/26/2024 18:54	46102	MACJ_T1	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
11/26/2024 18:54	46203	DANV_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
11/26/2024 18:54	44505	HAMI_T2	0	1	1	0	0	0	-0.05	-0.01	0	0	0	0	0	0
11/26/2024 18:54	59003	MIFF_T1	1	1	0	0.1	0.4	0.3	-0.55	-0.27	0	0	0	0	0	0
11/26/2024 18:54	67002	STHI_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
11/26/2024 18:54	14102	TRUM_T2	1	1	0	6.1	6.1	0	-1.13	-1.23	3	3	0	2400	2400	0
11/26/2024 18:54	14802	TREI_T2	0	1	1	0	0	0	0.41	0.41	0	0	0	0	0	0
11/26/2024 18:54	42902	MIDD_T2	0	0	0	0	0	0	-1.09	-1.11	1	1	0	600	600	0
11/26/2024 18:54	40801	EXCH_T2	0	0	0	0	0	0	0.52	0.55	1	1	0	1200	1200	0
11/26/2024 18:54	65601	QVIL_T2	3	16	13	0.1	0.14	0.04	0	0	0	0	0	0	0	0
11/26/2024 18:54	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:54	60502	NMAN_T2	0	0	0	0	0	0	-0.08	-0.3	0	0	0	0	0	0
11/26/2024 18:54	24702	FLND_T2	0	0	0	0	0	0	-0.09	-0.16	1	1	0	1200	1200	0
11/26/2024 18:54	67203	TEHI_T1	1	1	0	0.6	0	-0.6	2.48	2.44	2	2	0	1500	1500	0
11/26/2024 18:55	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
11/26/2024 18:55	43302	WATS_T2	4	4	0	0.45	0.55	0.1	-0.46	-0.46	2	2	0	1800	1800	0
11/26/2024 18:55	43202	MVIL_T2	0	0	0	0	0	0	-1.38	-1.36	0	0	0	0	0	0
11/26/2024 18:55	67401	WAKE_T2	0	0	0	0	0	0	-1.24	-1.21	0	0	0	0	0	0
11/26/2024 18:55	57403	SPAN_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
11/26/2024 18:55	60501	NMAN_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
11/26/2024 18:55	65402	MARI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:55	23901	EFMO_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
11/26/2024 18:55	65802	RTWN_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
11/26/2024 18:55	65003	NEFF_T2	0	0	0	0	0	0	-1.84	-1.88	2	2	0	1800	1800	0
11/26/2024 18:55	45802	HEGI_T2	6	47	41	0.38	1	0.62	0.64	0.44	0	0	0	0	0	0
11/26/2024 18:55	65401	MARI_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
11/26/2024 18:55	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:55	60201	ATGL_T2	8	9	1	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
11/26/2024 18:55	42902	MIDD_T2	0	0	0	0	0	0	-1.09	-1.11	1	1	0	600	600	0
11/26/2024 18:55	57401	SPAN_T1	2	2	0	0.6	1.05	0.45	0	0	0	0	0	0	0	0
11/26/2024 18:55	64303	LINC_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
11/26/2024 18:55	57201	ROSS_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
11/26/2024 18:55	50501	MECH_T1	4	4	0	0.98	1.08	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:55	62106	ELAN_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
11/26/2024 18:55	60803	BUCK_T1	1	2	1	0.1	0.1	0	-1.04	-1.08	2	2	0	1200	1200	0
11/26/2024 18:55	50506	MECH_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
11/26/2024 18:55	50502	MECH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
11/26/2024 18:55	60502	NMAN_T2	0	0	0	0	0	0	-0.08	-0.3	0	0	0	0	0	0
11/26/2024 18:56	50502	MECH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
11/26/2024 18:56	58202	NEWV_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
11/26/2024 18:56	45702	LIND_T2	1	1	0	0.9	1.3	0.4	-1.13	-1.02	0	0	0	0	0	0
11/26/2024 18:56	58001	WCAR_T1	4	4	0	0.98	1.03	0.05	0	0	0	0	0	0	0	0
11/26/2024 18:56	67402	WAKE_T2	0	0	0	0	0	0	0.18	0.13	0	0	0	0	0	0
11/26/2024 18:56	65502	MOJO_T2	103	123	20	0.11	0.11	0	0	0	0	0	0	0	0	0
11/26/2024 18:56	57101	SPHI_T2	6	6	0	0.87	1	0.13	0	0	0	0	0	0	0	0
11/26/2024 18:56	50505	MECH_T1	0	0	0	0	0	0	-0.98	-0.93	0	0	0	0	0	0
11/26/2024 18:56	57702	PAXT_T1	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
11/26/2024 18:56	23001	SAIO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:56	47203	FAXO_T2	1	1	0	1.5	1	-0.5	-0.37	-0.4	0	0	0	0	0	0
11/26/2024 18:56	50501	MECH_T1	4	4	0	0.98	1.08	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:56	57106	SPHI_T2	2	3	1	0.55	0.57	0.02	0	0	0	0	0	0	0	0
11/26/2024 18:56	67203	TEHI_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
11/26/2024 18:56	13704	SCHN_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
11/26/2024 18:56	14203	EALL_T1	0	0	0	0	0	0	0.86	0.76	0	0	0	0	0	0
11/26/2024 18:56	57104	SPHI_T2	2	3	1	4.2	1.65	-2.55	-0.21	-0.16	0	0	0	0	0	0
11/26/2024 18:56	67002	STHI_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
11/26/2024 18:56	42902	MIDD_T2	0	0	0	0	0	0	-1.09	-1.11	1	1	0	600	600	0
11/26/2024 18:56	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:56	14802	TREI_T2	0	1	1	0	0	0	0.41	0.41	0	0	0	0	0	0
11/26/2024 18:56	61001	DONV_T1	0	0	0	0	0	0	-0.28	-0.12	0	0	0	0	0	0
11/26/2024 18:56	58003	WCAR_T1	1	1	0	1.3	1.3	0	0.51	0.49	0	0	0	0	0	0
11/26/2024 18:56	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/26/2024 18:56	58302	NOTT_T1	0	0	0	0	0	0	-0.45	-0.48	1	1	0	1200	1200	0
11/26/2024 18:56	67201	TEHI_T1	0	0	0	0	0	0	-0.06	-0.07	1	1	0	900	900	0
11/26/2024 18:56	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:56	54601	SUMM_T2	1	1	0	0.2	0.2	0	-2.99	-3.02	2	2	0	2100	2100	0
11/26/2024 18:56	14404	SSLA_T1	0	0	0	0	0	0	-0.1	-0.07	0	0	0	0	0	0
11/26/2024 18:56	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:57	65402	MARI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:57	40702	FFLD_T1	68	100	32	0.19	0.24	0.05	0	0	0	0	0	0	0	0
11/26/2024 18:57	53903	HALI_T2	2	2	0	1.3	1.35	0.05	-0.16	-0.15	0	0	0	0	0	0
11/26/2024 18:57	52403	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/26/2024 18:57	44502	HAMI_T2	1	2	1	3.2	3.3	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:57	60502	NMAN_T2	0	0	0	0	0	0	-0.16	-0.59	0	0	0	0	0	0
11/26/2024 18:57	50501	MECH_T1	4	4	0	0.98	1.08	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:57	40701	FFLD_T1	34	49	15	0.63	0.48	-0.15	0	0	0	0	0	0	0	0
11/26/2024 18:57	60901	DONG_T2	0	13	13	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:57	40703	FFLD_T1	4	4	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
11/26/2024 18:57	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
11/26/2024 18:57	65401	MARI_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
11/26/2024 18:57	50506	MECH_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
11/26/2024 18:57	52401	GRPA_T2	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
11/26/2024 18:57	60902	DONG_T2	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
11/26/2024 18:57	52402	GRPA_T2	3	3	0	0.57	0.7	0.13	0	0	0	0	0	0	0	0
11/26/2024 18:57	64201	KINZ_T1	2	2	0	1.25	0.5	-0.75	0	0	0	0	0	0	0	0
11/26/2024 18:57	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
11/26/2024 18:57	43304	WATS_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
11/26/2024 18:57	50502	MECH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
11/26/2024 18:57	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:57	42601	TUSC_T1	0	0	0	0	0	0	0.85	0.88	1	1	0	600	600	0
11/26/2024 18:57	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:57	44505	HAMI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:57	20401	ASHF_T2	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:57	63501	HEID_T8K1-2	1	1	0	1	0.4	-0.6	0.43	0.33	0	0	0	0	0	0
11/26/2024 18:57	43302	WATS_T2	4	4	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:57	20403	ASHF_T2	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
11/26/2024 18:57	60501	NMAN_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
11/26/2024 18:57	46506	LOHA_T1	3	3	0	2.7	2.7	0	0	0	0	0	0	0	0	0
11/26/2024 18:57	67106	SPRI_T2	0	0	0	0	0	0	-1.34	-1.36	1	1	0	900	900	0
11/26/2024 18:57	53902	HALI_T2	1	2	1	5.1	5.4	0.3	0	0	0	0	0	0	0	0
11/26/2024 18:58	64802	MONE_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
11/26/2024 18:58	50502	MECH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
11/26/2024 18:58	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:58	14403	SSLA_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
11/26/2024 18:58	40901	JESH_T1	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
11/26/2024 18:58	67401	WAKE_T2	0	0	0	0	0	0	-1.24	-1.21	0	0	0	0	0	0
11/26/2024 18:58	57702	PAXT_T1	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
11/26/2024 18:58	57205	ROSS_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
11/26/2024 18:58	50501	MECH_T1	4	4	0	0.98	1.08	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:58	10206	ALLE_T2	1	1	0	2.2	1.6	-0.6	0	0	0	0	0	0	0	0
11/26/2024 18:58	57403	SPAN_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
11/26/2024 18:58	60501	NMAN_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
11/26/2024 18:58	10102	ALLE_T2	1	1	0	6.7	6.8	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:58	54603	SUMM_T2	0	0	0	0	0	0	-0.56	-0.55	1	1	0	900	900	0
11/26/2024 18:58	42902	MIDD_T2	0	0	0	0	0	0	-1.09	-1.11	1	1	0	600	600	0
11/26/2024 18:58	55001	NEWP_T1	0	0	0	0	0	0	-0.36	-0.33	0	0	0	0	0	0
11/26/2024 18:58	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0.06	0.06	0	0	0	0	0	0
11/26/2024 18:58	54601	SUMM_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/26/2024 18:58	65601	QVIL_T2	3	16	13	0.1	0.14	0.04	-1.19	-1.24	1	1	0	900	900	0
11/26/2024 18:58	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:58	43302	WATS_T2	4	4	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
11/26/2024 18:58	60803	BUCK_T1	1	2	1	0.1	0.1	0	-0.52	-0.54	1	1	0	600	600	0
11/26/2024 18:58	62102	ELAN_T1	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
11/26/2024 18:58	43304	WATS_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
11/26/2024 18:58	10204	ALLE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:58	55002	NEWP_T1	4	6	2	0.7	1	0.3	0	0	0	0	0	0	0	0
11/26/2024 18:58	57401	SPAN_T1	2	2	0	0.6	1.05	0.45	0	0	0	0	0	0	0	0
11/26/2024 18:58	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:58	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 18:58	50506	MECH_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
11/26/2024 18:59	46203	DANV_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
11/26/2024 18:59	58401	MORO_T1	0	0	0	0	0	0	-1.08	-1.07	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/26/2024 18:59	64201	KINZ_T1	2	2	0	1.25	0.5	-0.75	0	0	0	0	0	0	0	0
11/26/2024 18:59	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
11/26/2024 18:59	65601	QVIL_T2	3	16	13	0.1	0.14	0.04	0	0	0	0	0	0	0	0
11/26/2024 18:59	64203	KINZ_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
11/26/2024 18:59	57203	ROSS_T1	0	0	0	0	0	0	0.34	0.31	0	0	0	0	0	0
11/26/2024 19:00	63804	HEMP_T1	1	1	0	5.8	5.7	-0.1	0.75	0.75	0	0	0	0	0	0
11/26/2024 19:00	57205	ROSS_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
11/26/2024 19:00	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 19:00	65401	MARI_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
11/26/2024 19:00	65601	QVIL_T2	16	32	16	0.14	0.17	0.03	0	0	0	0	0	0	0	0
11/26/2024 19:00	60501	NMAN_T2	2	9	7	0.1	0.14	0.04	0	0	0	0	0	0	0	0
11/26/2024 19:00	64704	LITI_T1	0	0	0	0	0	0	0.41	0.47	1	1	0	600	600	0
11/26/2024 19:00	65603	QVIL_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
11/26/2024 19:00	58402	MORO_T1	0	0	0	0	0	0	0.2	0.13	2	2	0	1500	1500	0
11/26/2024 19:01	53902	HALI_T2	1	2	1	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
11/26/2024 19:01	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 19:01	50501	MECH_T1	4	4	0	1.08	1.23	0.15	0	0	0	0	0	0	0	0
11/26/2024 19:01	64904	MILL_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
11/26/2024 19:01	57401	SPAN_T1	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
11/26/2024 19:01	50506	MECH_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
11/26/2024 19:01	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 19:01	53903	HALI_T2	2	2	0	1.35	1.3	-0.05	0	0	0	0	0	0	0	0
11/26/2024 19:01	50502	MECH_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
11/26/2024 19:01	57403	SPAN_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
11/26/2024 19:02	52403	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/26/2024 19:02	54601	SUMM_T2	1	1	0	0.2	0.2	0	-2.99	-3.02	2	2	0	2100	2100	0
11/26/2024 19:02	52402	GRPA_T2	3	3	0	0.53	0.7	0.17	-0.93	-0.94	0	0	0	0	0	0
11/26/2024 19:02	65601	QVIL_T2	16	32	16	0.14	0.17	0.03	0	0	0	0	0	0	0	0
11/26/2024 19:02	58001	WCAR_T1	4	4	0	1.03	1.1	0.07	0	0	0	0	0	0	0	0
11/26/2024 19:02	44301	BEAV_T2	3	2	-1	0.27	0	-0.27	0	0	0	0	0	0	0	0
11/26/2024 19:02	65603	QVIL_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
11/26/2024 19:02	58003	WCAR_T1	1	1	0	1.2	1.3	0.1	0.51	0.49	0	0	0	0	0	0
11/26/2024 19:03	58202	NEWV_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
11/26/2024 19:03	65207	PRIN_T4	15	26	11	0.57	0.35	-0.22	0	0	1	1	0	1200	1200	0
11/26/2024 19:03	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 19:04	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 19:04	55105	WERT_T1	0	0	0	0	0	0	-0.67	-0.64	1	1	0	900	900	0
11/26/2024 19:05	65601	QVIL_T2	16	32	16	0.14	0.17	0.03	0	0	0	0	0	0	0	0
11/26/2024 19:05	65401	MARI_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
11/26/2024 19:05	55001	NEWP_T1	0	1	1	0	0	0	-0.36	-0.33	0	0	0	0	0	0
11/26/2024 19:05	55002	NEWP_T1	4	6	2	1.33	1.05	-0.28	0	0	0	0	0	0	0	0
11/26/2024 19:05	52402	GRPA_T2	3	3	0	0.53	0.7	0.17	0	0	0	0	0	0	0	0
11/26/2024 19:05	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 19:05	52403	GRPA_T2	0	1	1	0	0.2	0.2	-0.13	-0.13	0	0	0	0	0	0
11/26/2024 19:06	59003	MIFF_T1	1	1	0	0.4	0.3	-0.1	-0.55	-0.27	0	0	0	0	0	0
11/26/2024 19:06	59002	MIFF_T1	3	5	2	0.17	0.28	0.11	0	0	0	0	0	0	0	0
11/26/2024 19:06	53903	HALI_T2	2	2	0	1.35	1.3	-0.05	-0.16	-0.15	0	0	0	0	0	0
11/26/2024 19:06	53902	HALI_T2	1	2	1	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
11/26/2024 19:09	55002	NEWP_T1	4	6	2	1.33	1.05	-0.28	-0.28	-0.25	0	0	0	0	0	0
11/26/2024 19:09	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/26/2024 19:12	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.11	1	1	0	600	600	0
11/26/2024 19:14	47201	FAXO_T2	0	0	0	0	0	0	-2.27	-2.26	1	1	0	1200	1200	0
11/26/2024 19:14	47203	FAXO_T2	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
11/26/2024 19:16	52402	GRPA_T2	3	3	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
11/26/2024 19:16	52403	GRPA_T2	1	1	0	0.2	0.5	0.3	-0.13	-0.16	0	0	0	0	0	0
11/26/2024 19:23	48901	FOSP_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
11/26/2024 19:49	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
11/26/2024 20:02	13101	NHAM_T1	0	0	0	0	0	0	-3.14	-3.21	2	2	0	2400	2400	0
11/26/2024 20:20	13905	SEID_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
11/26/2024 21:03	60801	BUCK_T1	4	21	17	0.1	0.17	0.07	-0.46	-0.46	0	0	0	0	0	0
11/26/2024 21:03	60803	BUCK_T1	5	11	6	0.18	0.18	0	0	0	0	0	0	0	0	0
11/26/2024 21:48	63202	MGTN_T2	1	1	0	4.4	0	-4.4	0	0	0	0	0	0	0	0
11/26/2024 21:48	63201	MGTN_T2	0	0	0	0	0	0	0.15	0.13	1	1	0	600	600	0
11/26/2024 21:51	46203	DANV_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
11/26/2024 22:22	13302	ORVI_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
11/26/2024 22:26	46203	DANV_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
11/27/2024 7:44	10805	CHHI_T2	1	10	9	8.4	8.2	-0.2	-0.62	-0.39	1	1	0	600	600	0
11/27/2024 7:50	15201	SFAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 7:50	15202	SFAR_T1	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
11/27/2024 7:57	63305	GREE_T1	1	2	1	0.1	0.15	0.05	-1.17	-1.2	0	0	0	0	0	0
11/27/2024 7:59	63305	GREE_T1	1	2	1	0.1	0.15	0.05	-1.17	-1.2	0	0	0	0	0	0
11/27/2024 8:01	61001	DONV_T1	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
11/27/2024 8:12	65702	RVIL_T2	0	0	0	0	0	0	-1.7	-0.02	0	0	0	0	0	0
11/27/2024 8:12	16101	BING_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
11/27/2024 8:13	65702	RVIL_T2	0	0	0	0	0	0	-1.7	-0.02	0	0	0	0	0	0
11/27/2024 8:16	12006	HATF_T1	2	0	-2	0.2	0	-0.2	0.62	0.55	1	1	0	1200	1200	0
11/27/2024 8:19	52501	PROG_T1	151	0	-151	0.21	0	-0.21	-0.77	-0.49	1	0	-1	300	0	-300
11/27/2024 8:20	52501	PROG_T1	151	0	-151	0.21	0	-0.21	-0.77	-0.49	1	0	-1	300	0	-300
11/27/2024 8:23	57205	ROSS_T1	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
11/27/2024 8:23	57401	SPAN_T1	0	2	2	0	0.55	0.55	-1.11	-1.04	1	1	0	600	600	0
11/27/2024 8:23	57403	SPAN_T1	5	27	22	0.16	0.33	0.17	0	0	0	0	0	0	0	0
11/27/2024 8:23	25801	SUTR_T2	2	2	0	8.1	8.35	0.25	0	0	0	0	0	0	0	0
11/27/2024 8:23	51204	MTON_T2	0	0	0	0	0	0	-0.43	-0.44	1	1	0	600	600	0
11/27/2024 8:23	52501	PROG_T1	151	0	-151	0.21	0	-0.21	-0.49	-0.48	0	0	0	0	0	0
11/27/2024 8:25	57401	SPAN_T1	0	2	2	0	0.55	0.55	-1.11	-1.04	1	1	0	600	600	0
11/27/2024 8:25	57403	SPAN_T1	5	27	22	0.16	0.33	0.17	0	0	0	0	0	0	0	0
11/27/2024 8:26	45502	DERR_T2	12	35	23	0.52	0.48	-0.04	0	0	0	0	0	0	0	0
11/27/2024 8:26	45501	DERR_T2	8	6	-2	0.26	0.35	0.09	1.15	1.03	2	2	0	1800	1800	0
11/27/2024 8:28	45501	DERR_T2	8	6	-2	0.26	0.35	0.09	1.15	1.03	2	2	0	1800	1800	0
11/27/2024 8:28	45502	DERR_T2	12	35	23	0.52	0.48	-0.04	0	0	0	0	0	0	0	0
11/27/2024 8:30	45502	DERR_T2	0	32	32	0	0.43	0.43	0.24	0.26	1	1	0	300	300	0
11/27/2024 8:30	45501	DERR_T2	0	5	5	0	0.8	0.8	0	0	0	0	0	0	0	0
11/27/2024 8:34	13302	ORVI_T2	0	0	0	0	0	0	0.16	1.52	0	0	0	0	0	0
11/27/2024 8:36	49803	UNIV_T1	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
11/27/2024 8:36	49804	UNIV_T1	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
11/27/2024 8:36	13302	ORVI_T2	0	0	0	0	0	0	1.52	1.4	0	0	0	0	0	0
11/27/2024 8:38	47403	PENS_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/27/2024 8:38	44301	BEAV_T2	1	0	-1	0.8	0	-0.8	0	0	2	2	0	1500	1500	0
11/27/2024 8:38	47401	PENS_T1	1	0	-1	0.1	0	-0.1	0.12	0.14	0	0	0	0	0	0
11/27/2024 8:38	13302	ORVI_T2	0	0	0	0	0	0	1.52	1.4	0	0	0	0	0	0
11/27/2024 8:39	24902	WHHA_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/27/2024 8:39	24901	WHHA_T1	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
11/27/2024 8:41	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
11/27/2024 8:41	54502	ENOL_T2	1	1	0	0.1	0.7	0.6	-2.08	-2.09	1	1	0	600	600	0
11/27/2024 8:42	44301	BEAV_T2	1	0	-1	0.8	0	-0.8	0	0	4	4	0	3000	3000	0
11/27/2024 8:42	58003	WCAR_T1	1	1	0	1.6	1.4	-0.2	0.16	0.68	1	0	-1	600	0	-600
11/27/2024 8:42	58001	WCAR_T1	4	4	0	1.28	1.25	-0.03	0	0	0	0	0	0	0	0
11/27/2024 8:44	24101	EHAZ_T1	20	8	-12	0.36	0.95	0.59	0	0	0	0	0	0	0	0
11/27/2024 8:44	24105	EHAZ_T1	4	4	0	6.43	6.18	-0.25	0	0	0	0	0	0	0	0
11/27/2024 8:44	24102	EHAZ_T1	0	0	0	0	0	0	1.31	0.19	0	0	0	0	0	0
11/27/2024 8:46	65402	MARI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 8:46	52403	GRPA_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
11/27/2024 8:46	45702	LIND_T2	0	1	1	0	0.1	0.1	-1.64	-1.67	0	0	0	0	0	0
11/27/2024 8:46	52402	GRPA_T2	3	4	1	0.5	0.25	-0.25	-0.77	-0.77	0	0	0	0	0	0
11/27/2024 8:46	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 8:47	64902	MILL_T2	0	0	0	0	0	0	-0.67	-0.7	1	1	0	900	900	0
11/27/2024 8:51	64802	MONE_T2	22	59	37	0.13	0.2	0.07	0.14	0.16	0	0	0	0	0	0
11/27/2024 8:51	64801	MONE_T2	5	19	14	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
11/27/2024 9:00	67502	WEWI_T2	2	3	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
11/27/2024 9:00	67503	WEWI_T2	1	1	0	8.3	8.1	-0.2	-0.01	-0.04	0	0	0	0	0	0
11/27/2024 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
11/27/2024 9:00	65402	MARI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 9:00	66501	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
11/27/2024 9:00	61001	DONV_T1	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
11/27/2024 9:00	55001	NEWP_T1	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
11/27/2024 9:00	45701	LIND_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
11/27/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
11/27/2024 9:00	55002	NEWP_T1	5	5	0	0.5	0.62	0.12	-0.19	-0.19	0	0	0	0	0	0
11/27/2024 9:00	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 9:00	57205	ROSS_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
11/27/2024 9:00	66505	SMAN_T2	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
11/27/2024 9:00	66502	SMAN_T2	4	1	-3	0.13	0.1	-0.03	0.17	0.29	0	0	0	0	0	0
11/27/2024 9:00	13302	ORVI_T2	0	0	0	0	0	0	4.21	4.58	0	0	0	0	0	0
11/27/2024 9:03	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 9:03	65402	MARI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 9:04	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
11/27/2024 9:06	41902	REED_T1	12	13	1	1.86	0.43	-1.43	1.13	1.14	0	0	0	0	0	0
11/27/2024 9:07	58001	WCAR_T1	4	4	0	0.98	1.2	0.22	0	0	0	0	0	0	0	0
11/27/2024 9:07	58003	WCAR_T1	1	1	0	1.2	1.3	0.1	0.67	0.66	0	0	0	0	0	0
11/27/2024 9:08	60301	TWVA_T2	0	1	1	0	0.1	0.1	-6.32	-6.51	4	4	0	3600	3600	0
11/27/2024 9:10	15201	SFAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 9:10	45501	DERR_T2	4	6	2	0.83	0.58	-0.25	1	1.12	2	2	0	1800	1800	0
11/27/2024 9:10	45502	DERR_T2	18	27	9	0.4	0.42	0.02	0	0	0	0	0	0	0	0
11/27/2024 9:11	58802	COCO_T2	0	0	0	0	0	0	-0.65	-0.55	1	1	0	1200	1200	0
11/27/2024 9:13	54504	ENOL_T2	0	0	0	0	0	0	-1	-1	1	1	0	600	600	0
11/27/2024 9:13	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
11/27/2024 9:13	45501	DERR_T2	4	6	2	0.83	0.58	-0.25	1	1.12	2	2	0	1800	1800	0
11/27/2024 9:13	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	-2.12	-2.08	1	1	0	600	600	0
11/27/2024 9:13	45502	DERR_T2	18	27	9	0.4	0.42	0.02	0	0	0	0	0	0	0	0
11/27/2024 9:16	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
11/27/2024 9:16	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/27/2024 9:16	54501	ENOL_T2	0	0	0	0	0	0	-0.53	-0.53	1	1	0	600	600	0
11/27/2024 9:17	64802	MONE_T2	45	55	10	0.18	0.22	0.04	0.16	0.15	0	0	0	0	0	0
11/27/2024 9:17	64801	MONE_T2	15	9	-6	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
11/27/2024 9:17	45702	LIND_T2	0	0	0	0	0	0	-1.66	-1.65	0	0	0	0	0	0
11/27/2024 9:18	45702	LIND_T2	0	0	0	0	0	0	-1.66	-1.65	0	0	0	0	0	0
11/27/2024 9:19	64802	MONE_T2	45	55	10	0.18	0.22	0.04	0.16	0.15	0	0	0	0	0	0
11/27/2024 9:19	58202	NEWV_T1	0	3	3	0	0.2	0.2	0.01	-0.04	0	0	0	0	0	0
11/27/2024 9:19	64801	MONE_T2	15	9	-6	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
11/27/2024 9:22	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 9:22	58202	NEWV_T1	0	3	3	0	0.2	0.2	-0.02	-0.07	0	0	0	0	0	0
11/27/2024 9:24	58001	WCAR_T1	4	4	0	1.1	1.28	0.18	0	0	0	0	0	0	0	0
11/27/2024 9:24	58003	WCAR_T1	1	1	0	1.1	1.3	0.2	0.66	0.67	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/27/2024 9:25	58003	WCAR_T1	1	1	0	1.1	1.3	0.2	0.66	0.67	0	0	0	0	0	0
11/27/2024 9:25	58001	WCAR_T1	4	4	0	1.1	1.28	0.18	0	0	0	0	0	0	0	0
11/27/2024 9:26	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.92	1	1	0	900	900	0
11/27/2024 9:26	14801	TREI_T2	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
11/27/2024 9:26	24901	WHHA_T1	0	0	0	0	0	0	-0.61	-0.58	0	0	0	0	0	0
11/27/2024 9:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 9:30	10705	CATA_T2	0	0	0	0	0	0	-2.68	-2.76	3	3	0	2700	2700	0
11/27/2024 9:34	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.92	1	1	0	900	900	0
11/27/2024 9:37	58402	MORO_T1	0	0	0	0	0	0	0.5	0.51	1	1	0	900	900	0
11/27/2024 9:43	58802	COCO_T2	0	0	0	0	0	0	-0.54	-0.55	1	1	0	1200	1200	0
11/27/2024 9:45	53902	HALI_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
11/27/2024 9:45	53903	HALI_T2	2	2	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
11/27/2024 9:45	53901	HALI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/27/2024 9:48	53901	HALI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/27/2024 9:48	53902	HALI_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
11/27/2024 9:48	53903	HALI_T2	2	2	0	1.2	1.4	0.2	-0.12	-0.12	0	0	0	0	0	0
11/27/2024 9:49	52404	GRPA_T2	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
11/27/2024 9:49	52402	GRPA_T2	1	4	3	0.2	0.1	-0.1	-0.8	-0.81	0	0	0	0	0	0
11/27/2024 9:49	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 9:51	57201	ROSS_T1	3	2	-1	0.1	0.1	0	-1.01	-1.02	0	0	0	0	0	0
11/27/2024 9:51	57205	ROSS_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/27/2024 9:53	20401	ASHF_T2	2	3	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
11/27/2024 9:53	20403	ASHF_T2	2	2	0	0.1	0.4	0.3	1.03	0.94	0	0	0	0	0	0
11/27/2024 9:54	67203	TEHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/27/2024 9:54	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 9:54	20403	ASHF_T2	2	2	0	0.1	0.4	0.3	1.03	0.94	0	0	0	0	0	0
11/27/2024 9:54	10105	ALLE_T3	0	6	6	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 9:54	10101	ALLE_T3	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
11/27/2024 9:54	20401	ASHF_T2	2	3	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
11/27/2024 9:54	67201	TEHI_T1	0	0	0	0	0	0	1.17	1.23	1	1	0	900	900	0
11/27/2024 9:56	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 9:56	20401	ASHF_T2	2	3	1	0.3	0.27	-0.03	-0.27	-0.18	0	0	0	0	0	0
11/27/2024 9:56	20403	ASHF_T2	2	2	0	0.1	0.4	0.3	1.03	0.94	0	0	0	0	0	0
11/27/2024 9:56	10105	ALLE_T3	0	6	6	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 9:56	10101	ALLE_T3	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
11/27/2024 9:59	45501	DERR_T2	7	12	5	0.6	0.6	0	0	0	0	0	0	0	0	0
11/27/2024 9:59	45502	DERR_T2	15	12	-3	0.37	0.35	-0.02	0.26	0.25	1	1	0	300	300	0
11/27/2024 10:04	67106	SPRI_T2	12	0	-12	0.52	0	-0.52	-1.98	-1.96	2	2	0	1500	1500	0
11/27/2024 10:04	41902	REED_T1	2	4	2	0.55	0.1	-0.45	1.07	1.12	0	0	0	0	0	0
11/27/2024 10:05	67106	SPRI_T2	12	0	-12	0.52	0	-0.52	-1.98	-1.96	2	2	0	1500	1500	0
11/27/2024 10:08	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.35	0	0	0	0	0	0
11/27/2024 10:10	55501	HERS_T1	52	52	0	0.15	0.33	0.18	0	0	0	0	0	0	0	0
11/27/2024 10:10	55507	HERS_T1	2	5	3	0.1	0.18	0.08	-0.01	-0.01	0	0	0	0	0	0
11/27/2024 10:11	45501	DERR_T2	11	11	0	0.95	0.3	-0.65	0	0	0	0	0	0	0	0
11/27/2024 10:11	45502	DERR_T2	10	7	-3	0.39	0.5	0.11	0.25	0.25	1	1	0	300	300	0
11/27/2024 10:12	55508	HERS_T2	2	2	0	1.6	1.7	0.1	-5.29	-5.29	2	2	0	2400	2400	0
11/27/2024 10:12	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.35	0	0	0	0	0	0
11/27/2024 10:14	45802	HEGI_T2	16	0	-16	0.38	0	-0.38	0.67	0.75	2	2	0	1800	1800	0
11/27/2024 10:14	17802	GILB_T1	0	2	2	0	0.85	0.85	0.05	0.04	0	0	0	0	0	0
11/27/2024 10:16	52404	GRPA_T2	1	1	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
11/27/2024 10:16	52403	GRPA_T2	0	7	7	0	0.36	0.36	-0.08	-0.12	0	0	0	0	0	0
11/27/2024 10:16	45802	HEGI_T2	0	7	7	0	0.17	0.17	0	0	0	0	0	0	0	0
11/27/2024 10:16	52402	GRPA_T2	1	5	4	0.1	0.24	0.14	0	0	0	0	0	0	0	0
11/27/2024 10:16	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 10:18	13303	ORVI_T1	1	3	2	0.1	0.2	0.1	-0.69	-0.68	0	0	0	0	0	0
11/27/2024 10:19	65207	PRIN_T4	1	4	3	0.2	0.88	0.68	0	0	1	1	0	1200	1200	0
11/27/2024 10:19	65206	PRIN_T4	4	22	18	0.1	0.11	0.01	0	0	0	0	0	0	0	0
11/27/2024 10:20	41902	REED_T1	2	3	1	0.25	0	-0.25	1.12	1.13	0	0	0	0	0	0
11/27/2024 10:20	13303	ORVI_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/27/2024 10:20	60502	NMAN_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
11/27/2024 10:21	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 10:22	57201	ROSS_T1	0	5	5	0	0.15	0.15	0	0	0	0	0	0	0	0
11/27/2024 10:22	57205	ROSS_T1	0	1	1	0	0.3	0.3	0.15	0.13	0	0	0	0	0	0
11/27/2024 10:26	23901	EFMO_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
11/27/2024 10:27	45501	DERR_T2	11	2	-9	0.55	0.3	-0.25	0.89	0.91	2	2	0	1800	1800	0
11/27/2024 10:27	45502	DERR_T2	6	4	-2	0.42	0.45	0.03	0	0	0	0	0	0	0	0
11/27/2024 10:29	63501	HEID_TBK1-2	1	1	0	0.9	1	0.1	0.1	0.11	1	1	0	900	900	0
11/27/2024 10:30	45501	DERR_T2	0	2	2	0	0.25	0.25	0.89	0.91	2	2	0	1800	1800	0
11/27/2024 10:30	45502	DERR_T2	0	3	3	0	0.63	0.63	0	0	0	0	0	0	0	0
11/27/2024 10:34	64305	LINC_T1	0	0	0	0	0	0	-0.14	-0.11	0	0	0	0	0	0
11/27/2024 10:34	13303	ORVI_T1	3	2	-1	0.2	0.15	-0.05	-0.34	-0.33	0	0	0	0	0	0
11/27/2024 10:37	57201	ROSS_T1	0	10	10	0	0.19	0.19	-1.02	-1	0	0	0	0	0	0
11/27/2024 10:37	57205	ROSS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/27/2024 10:38	54601	SUMM_T2	1	6	5	0.5	0.2	-0.3	-2.87	-2.94	2	2	0	2100	2100	0
11/27/2024 10:39	55503	HERS_T1	0	0	0	0	0	0	-1.73	-1.73	1	1	0	1200	1200	0
11/27/2024 10:39	55501	HERS_T1	52	52	0	0.33	0.76	0.43	0	0	0	0	0	0	0	0
11/27/2024 10:39	60701	BREC_T1	0	0	0	0	0	0	-0.52	-0.5	2	2	0	1200	1200	0
11/27/2024 10:39	55507	HERS_T1	5	21	16	0.18	0.22	0.04	0	0	0	0	0	0	0	0
11/27/2024 10:40	57201	ROSS_T1	0	10	10	0	0.19	0.19	0	0	0	0	0	0	0	0
11/27/2024 10:40	57203	ROSS_T1	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
11/27/2024 10:40	60701	BREC_T1	0	0	0	0	0	0	-0.52	-0.5	2	2	0	1200	1200	0
11/27/2024 10:40	57205	ROSS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/27/2024 10:41	61001	DONV_T1	0	1	1	0	0.2	0.2	-0.08	-0.1	0	0	0	0	0	0
11/27/2024 10:41	57201	ROSS_T1	0	10	10	0	0.19	0.19	0	0	0	0	0	0	0	0
11/27/2024 10:41	57203	ROSS_T1	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
11/27/2024 10:41	57205	ROSS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/27/2024 10:42	60201	ATGL_T2	0	0	0	0	0	0	-0.14	-0.21	0	0	0	0	0	0
11/27/2024 10:42	60701	BREC_T1	0	0	0	0	0	0	-0.52	-0.5	2	2	0	1200	1200	0
11/27/2024 10:43	60701	BREC_T1	0	0	0	0	0	0	-1.03	-1.01	4	4	0	2400	2400	0
11/27/2024 10:43	63501	HEID_TBK1-2	1	1	0	1	1	0	0.22	0.16	2	2	0	1800	1800	0
11/27/2024 10:44	21206	ECAR_T2	1	1	0	7.7	7.9	0.2	0	0	0	0	0	0	0	0
11/27/2024 10:44	61001	DONV_T1	0	1	1	0	0.2	0.2	-0.16	-0.2	0	0	0	0	0	0
11/27/2024 10:44	46002	BERW_T2	0	0	0	0	0	0	-0.59	-0.58	1	1	0	900	900	0
11/27/2024 10:44	21204	ECAR_T2	1	1	0	0	0	0	0.25	0.29	0	0	0	0	0	0
11/27/2024 10:45	63306	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/27/2024 10:45	63501	HEID_TBK1-2	1	2	1	1	0.55	-0.45	0.11	0.08	1	1	0	900	900	0
11/27/2024 10:45	63302	GREE_T1	0	0	0	0	0	0	0.51	0.54	0	0	0	0	0	0
11/27/2024 10:45	63305	GREE_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/27/2024 10:46	47203	FAXO_T2	1	1	0	1.2	1	-0.2	-0.39	-0.38	0	0	0	0	0	0
11/27/2024 10:46	47201	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 10:47	64302	LINC_T2	0	0	0	0	0	0	1.27	1.24	0	0	0	0	0	0
11/27/2024 10:48	54203	PENN_T1	18	18	0	1.37	1.24	-0.13	-0.02	-0.02	0	0	0	0	0	0
11/27/2024 10:48	54506	ENOL_T2	0	0	0	0	0	0	0.36	0.43	1	1	0	600	600	0
11/27/2024 10:48	54502	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/27/2024 10:48	58302	NOTT_T1	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
11/27/2024 10:48	63501	HEID_TBK1-2	1	2	1	1	0.55	-0.45	0.22	0.16	2	2	0	1800	1800	0
11/27/2024 10:48	54501	ENOL_T2	2	3	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
11/27/2024 10:48	54505	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
11/27/2024 10:48	54201	PENN_T1	7	8	1	0.49	0.49	0	0	0	0	0	0	0	0	0
11/27/2024 10:52	67801	WLAN_T1	2	3	1	0.7	0.43	-0.27	-0.21	-0.27	0	0	0	0	0	0
11/27/2024 10:52	67803	WLAN_T1	2	4	2	0.1	0.1	0	0	0	0	0	0	0	0	0
11/27/2024 10:52	67805	WLAN_T1	482	501	19	0.35	0.36	0.01	0	0	0	0	0	0	0	0
11/27/2024 10:52	67802	WLAN_T1	24	28	4	0.34	0.36	0.02	0	0	0	0	0	0	0	0
11/27/2024 10:53	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	2	2	0	1800	1800	0
11/27/2024 10:53	67801	WLAN_T1	2	3	1	0.7	0.43	-0.27	0	0	0	0	0	0	0	0
11/27/2024 10:53	67805	WLAN_T1	482	501	19	0.35	0.36	0.01	0	0	0	0	0	0	0	0
11/27/2024 10:53	67803	WLAN_T1	2	4	2	0.1	0.1	0	-1.5	-1.43	0	0	0	0	0	0
11/27/2024 10:53	67802	WLAN_T1	24	28	4	0.34	0.36	0.02	0	0	0	0	0	0	0	0
11/27/2024 10:54	10801	CHHI_T1	0	3	3	0	0.3	0.3	-0.7	-0.74	1	1	0	900	900	0
11/27/2024 10:54	67805	WLAN_T1	482	501	19	0.35	0.36	0.01	0	0	0	0	0	0	0	0
11/27/2024 10:54	67802	WLAN_T1	24	28	4	0.34	0.36	0.02	0	0	0	0	0	0	0	0
11/27/2024 10:54	67803	WLAN_T1	2	4	2	0.1	0.1	0	-1.5	-1.43	0	0	0	0	0	0
11/27/2024 10:54	67801	WLAN_T1	2	3	1	0.7	0.43	-0.27	-0.21	-0.27	0	0	0	0	0	0
11/27/2024 10:55	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	2	2	0	1800	1800	0
11/27/2024 10:56	61305	EARL_T1	0	0	0	0	0	0	-0.45	-0.56	2	2	0	1500	1500	0
11/27/2024 10:56	55508	HERS_T2	2	2	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
11/27/2024 10:57	67802	WLAN_T1	24	28	4	0.34	0.36	0.02	0	0	0	0	0	0	0	0
11/27/2024 10:57	48901	FOSP_T2	0	0	0	0	0	0	-0.12	-0.19	1	1	0	600	600	0
11/27/2024 10:57	67801	WLAN_T1	2	3	1	0.7	0.43	-0.27	0	0	0	0	0	0	0	0
11/27/2024 10:57	46803	HEPB_T2	4	2	-2	0.3	0.3	0	0.3	0.3	0	0	0	0	0	0
11/27/2024 10:57	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	2	2	0	1800	1800	0
11/27/2024 10:57	46801	HEPB_T2	5	3	-2	0.54	0.8	0.26	0	0	0	0	0	0	0	0
11/27/2024 10:57	67803	WLAN_T1	2	4	2	0.1	0.1	0	-1.5	-1.43	0	0	0	0	0	0
11/27/2024 10:57	67805	WLAN_T1	482	501	19	0.35	0.36	0.01	-1.4	-1.37	0	0	0	0	0	0
11/27/2024 10:58	67805	WLAN_T1	482	501	19	0.35	0.36	0.01	0	0	0	0	0	0	0	0
11/27/2024 10:58	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 10:58	10707	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/27/2024 10:58	67801	WLAN_T1	2	3	1	0.7	0.43	-0.27	0	0	0	0	0	0	0	0
11/27/2024 10:58	67803	WLAN_T1	2	4	2	0.1	0.1	0	-1.5	-1.43	0	0	0	0	0	0
11/27/2024 10:58	67802	WLAN_T1	24	28	4	0.34	0.36	0.02	0	0	0	0	0	0	0	0
11/27/2024 10:58	10705	CATA_T2	0	1	1	0	0.6	0.6	-0.92	-0.91	1	1	0	900	900	0
11/27/2024 11:04	14204	EALL_T2	0	0	0	0	0	0	0.27	0.35	0	0	0	0	0	0
11/27/2024 11:04	46801	HEPB_T2	3	3	0	0.8	0.67	-0.13	0	0	0	0	0	0	0	0
11/27/2024 11:04	46803	HEPB_T2	2	1	-1	0.25	0.4	0.15	0.3	0.3	0	0	0	0	0	0
11/27/2024 11:07	41901	REED_T1	6	5	-1	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
11/27/2024 11:07	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 11:07	41902	REED_T1	0	0	0	0	0	0	0.21	0.23	1	1	0	900	900	0
11/27/2024 11:08	15203	SFAR_T2	2	2	0	0.45	0.2	-0.25	-1.37	-1.35	0	0	0	0	0	0
11/27/2024 11:08	14801	TREI_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/27/2024 11:08	14802	TREI_T2	0	3	3	0	0.13	0.13	0.4	0.4	0	0	0	0	0	0
11/27/2024 11:08	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 11:08	10105	ALLE_T3	0	6	6	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 11:08	10101	ALLE_T3	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
11/27/2024 11:10	14801	TREI_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/27/2024 11:10	15203	SFAR_T2	2	2	0	0.45	0.2	-0.25	-1.37	-1.35	0	0	0	0	0	0
11/27/2024 11:10	14802	TREI_T2	0	3	3	0	0.13	0.13	0.4	0.4	0	0	0	0	0	0
11/27/2024 11:11	46004	BERW_T2	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
11/27/2024 11:12	40701	FFLD_T1	4	7	3	0.13	0.16	0.03	0	0	0	0	0	0	0	0
11/27/2024 11:12	10801	CHHI_T1	3	2	-1	0.27	0.35	0.08	-0.74	-0.69	1	1	0	900	900	0
11/27/2024 11:12	40702	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 11:12	11302	EMMA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 11:12	11301	EMMA_T1	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
11/27/2024 11:12	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/27/2024 11:12	11303	EMMA_T1	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
11/27/2024 11:13	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 11:13	44502	HAMI_T2	1	1	0	2.5	2.8	0.3	0	0	0	0	0	0	0	0
11/27/2024 11:14	60101	COCA_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
11/27/2024 11:14	10805	OHHI_T2	1	3	2	7.8	2.63	-5.17	-0.64	-0.75	1	1	0	600	600	0
11/27/2024 11:14	40701	FFLD_T1	4	7	3	0.13	0.16	0.03	0	0	0	0	0	0	0	0
11/27/2024 11:14	40702	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 11:15	64702	LITI_T2	0	0	0	0	0	0	-0.84	-0.74	0	0	0	0	0	0
11/27/2024 11:16	44502	HAMI_T2	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
11/27/2024 11:16	44505	HAMI_T2	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
11/27/2024 11:17	44505	HAMI_T2	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
11/27/2024 11:17	44502	HAMI_T2	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
11/27/2024 11:18	64702	LITI_T2	0	0	0	0	0	0	-0.84	-0.74	0	0	0	0	0	0
11/27/2024 11:19	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 11:24	60901	DONG_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/27/2024 11:24	46803	HEPB_T2	1	1	0	0.4	0.4	0	0.26	0.25	0	0	0	0	0	0
11/27/2024 11:24	46801	HEPB_T2	3	2	-1	0.67	0.9	0.23	0	0	0	0	0	0	0	0
11/27/2024 11:24	60902	DONG_T2	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
11/27/2024 11:25	49803	UNIV_T1	1	1	0	5.5	5.5	0	-1.02	-0.99	0	0	0	0	0	0
11/27/2024 11:26	14704	TREX_T1	1	1	0	5.3	5	-0.3	0	0	0	0	0	0	0	0
11/27/2024 11:26	67401	WAKE_T2	0	0	0	0	0	0	-1.09	-1.09	0	0	0	0	0	0
11/27/2024 11:26	10705	CATA_T2	1	1	0	0.5	0.3	-0.2	-0.91	-0.9	1	1	0	900	900	0
11/27/2024 11:26	10702	CATA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/27/2024 11:26	14705	TREX_T1	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
11/27/2024 11:28	61303	EARL_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
11/27/2024 11:29	57203	ROSS_T1	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
11/27/2024 11:29	57205	ROSS_T1	1	2	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/27/2024 11:29	57201	ROSS_T1	12	22	10	0.18	0.2	0.02	0	0	0	0	0	0	0	0
11/27/2024 11:30	45501	DERR_T2	0	0	0	0	0	0	0.91	0.99	2	2	0	1800	1800	0
11/27/2024 11:30	44801	EDAN_T2	0	2	2	0	0.2	0.2	-0.37	-0.39	0	0	0	0	0	0
11/27/2024 11:31	44801	EDAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/27/2024 11:31	44802	EDAN_T2	0	0	0	0	0	0	-2.29	-2.25	0	0	0	0	0	0
11/27/2024 11:32	64704	LITI_T1	0	0	0	0	0	0	0.1	0.06	1	1	0	600	600	0
11/27/2024 11:34	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.05	1	1	0	600	600	0
11/27/2024 11:36	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.05	1	1	0	600	600	0
11/27/2024 11:38	43304	WATS_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
11/27/2024 11:39	26002	WDAM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 11:41	46206	DANV_T2	0	0	0	0	0	0	1.72	1.46	2	2	0	2100	2100	0
11/27/2024 11:42	10701	CATA_T2	0	0	0	0	0	0	-0.44	-0.57	0	0	0	0	0	0
11/27/2024 11:42	10705	CATA_T2	0	1	1	0	2.1	2.1	-0.9	-0.9	1	1	0	900	900	0
11/27/2024 11:44	46206	DANV_T2	0	0	0	0	0	0	3.45	2.93	4	4	0	4200	4200	0
11/27/2024 11:44	25402	LAHA_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
11/27/2024 11:46	13101	NHAM_T1	0	0	0	0	0	0	-2.61	-2.93	2	2	0	2400	2400	0
11/27/2024 11:49	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 11:52	15103	UPHA_T2	2	2	0	0.25	0.45	0.2	0.38	0.38	0	0	0	0	0	0
11/27/2024 11:52	65205	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 11:53	59101	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 11:54	15103	UPHA_T2	2	2	0	0.25	0.45	0.2	0.38	0.38	0	0	0	0	0	0
11/27/2024 11:54	59101	WALK_T2	0	0	0	0	0	0	0.1	0.03	0	0	0	0	0	0
11/27/2024 11:55	67401	WAKE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 11:55	60803	BUCK_T1	6	14	8	0.15	0.27	0.12	0	0	0	0	0	0	0	0
11/27/2024 11:55	67402	WAKE_T2	0	1	1	0	0.2	0.2	0.46	0.21	0	0	0	0	0	0
11/27/2024 11:55	60801	BUCK_T1	1	17	16	0.3	0.17	-0.13	0.01	-0.17	0	0	0	0	0	0
11/27/2024 11:56	67402	WAKE_T2	0	1	1	0	0.2	0.2	0.46	0.21	0	0	0	0	0	0
11/27/2024 11:56	67401	WAKE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 11:56	23901	EFMO_T2	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
11/27/2024 11:58	59101	WALK_T2	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
11/27/2024 11:58	44301	BEAV_T2	0	0	0	0	0	0	0	0	2	1	-1	1500	600	-900
11/27/2024 12:04	64501	LAVI_T1	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
11/27/2024 12:05	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.18	-0.16	0	0	0	0	0	0
11/27/2024 12:06	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.31	-0.27	0	0	0	0	0	0
11/27/2024 12:07	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.16	-0.14	0	0	0	0	0	0
11/27/2024 12:08	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.16	-0.14	0	0	0	0	0	0
11/27/2024 12:11	60803	BUCK_T1	12	15	3	0.25	0.39	0.14	0	0	0	0	0	0	0	0
11/27/2024 12:11	60801	BUCK_T1	3	46	43	0.3	0.31	0.01	-0.17	-0.21	0	0	0	0	0	0
11/27/2024 12:14	40802	EXCH_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
11/27/2024 12:14	44801	EDAN_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
11/27/2024 12:14	40801	EXCH_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/27/2024 12:15	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/27/2024 12:15	40802	EXCH_T2	0	1	1	0	0.2	0.2	-0.39	-0.39	0	0	0	0	0	0
11/27/2024 12:15	44801	EDAN_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
11/27/2024 12:17	60101	COCA_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
11/27/2024 12:18	64101	REFR_T1	1	1	0	0.3	0.1	-0.2	-0.16	-0.14	0	0	0	0	0	0
11/27/2024 12:20	64101	REFR_T1	1	1	0	0.3	0.1	-0.2	-0.16	-0.14	0	0	0	0	0	0
11/27/2024 12:21	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 12:21	65207	PRIN_T4	6	9	3	0.57	0.85	0.28	0	0	0	0	0	0	0	0
11/27/2024 12:24	18001	ZION_T1	4	2	-2	4.95	9.75	4.8	0	0	0	0	0	0	0	0
11/27/2024 12:26	16101	BING_T2	1	0	-1	0.4	0	-0.4	0.32	0.37	0	0	0	0	0	0
11/27/2024 12:27	60101	COCA_T1	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
11/27/2024 12:28	53902	HALI_T2	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
11/27/2024 12:28	53903	HALI_T2	2	4	2	1.35	1	-0.35	-0.13	-0.12	0	0	0	0	0	0
11/27/2024 12:28	53901	HALI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
11/27/2024 12:29	63306	GREE_T1	1	1	0	0.1	0.2	0.1	-1.2	-1.21	0	0	0	0	0	0
11/27/2024 12:29	63305	GREE_T1	1	7	6	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/27/2024 12:29	60101	COCA_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
11/27/2024 12:30	63306	GREE_T1	1	0	-1	0.2	0	-0.2	-1.2	-1.21	0	0	0	0	0	0
11/27/2024 12:30	40802	EXCH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/27/2024 12:30	63305	GREE_T1	7	1	-6	0.13	0.3	0.17	0	0	0	0	0	0	0	0
11/27/2024 12:30	40801	EXCH_T2	0	0	0	0	0	0	-0.48	-0.49	1	1	0	1200	1200	0
11/27/2024 12:31	67401	WAKE_T2	4	3	-1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
11/27/2024 12:31	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
11/27/2024 12:32	53903	HALI_T2	2	6	4	1.6	0.85	-0.75	-0.13	-0.12	0	0	0	0	0	0
11/27/2024 12:32	53901	HALI_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
11/27/2024 12:32	53902	HALI_T2	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
11/27/2024 12:33	63305	GREE_T1	7	1	-6	0.13	0.3	0.17	0	0	0	0	0	0	0	0
11/27/2024 12:33	63306	GREE_T1	1	0	-1	0.2	0	-0.2	-1.2	-1.21	0	0	0	0	0	0
11/27/2024 12:34	63305	GREE_T1	7	1	-6	0.13	0.3	0.17	0	0	0	0	0	0	0	0
11/27/2024 12:34	63306	GREE_T1	1	0	-1	0.2	0	-0.2	-1.2	-1.21	0	0	0	0	0	0
11/27/2024 12:35	64101	REFR_T1	1	1	0	0.1	0.1	0	-0.14	-0.13	0	0	0	0	0	0
11/27/2024 12:35	55002	NEWP_T1	7	8	1	0.96	1.11	0.15	-0.21	-0.23	0	0	0	0	0	0
11/27/2024 12:36	64101	REFR_T1	1	1	0	0.1	0.1	0	-0.13	-0.14	0	0	0	0	0	0
11/27/2024 12:37	54203	PENN_T1	18	18	0	1.14	1.18	0.04	-0.05	-0.03	0	0	0	0	0	0
11/27/2024 12:37	60501	NMAN_T2	7	16	9	0.16	0.16	0	0	0	0	0	0	0	0	0
11/27/2024 12:37	64101	REFR_T1	1	1	0	0.1	0.1	0	-0.13	-0.14	0	0	0	0	0	0
11/27/2024 12:37	54201	PENN_T1	10	10	0	0.73	0.69	-0.04	0	0	0	0	0	0	0	0
11/27/2024 12:37	60502	NMAN_T2	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
11/27/2024 12:38	24902	WHHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 12:38	24901	WHHA_T1	0	0	0	0	0	0	-0.61	-0.64	0	0	0	0	0	0
11/27/2024 12:57	42701	AUGU_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
11/27/2024 12:58	42701	AUGU_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
11/27/2024 12:59	42701	AUGU_T1	1	1	0	0.9	0.8	-0.1	0	0	4	4	0	3600	3600	0
11/27/2024 13:00	10705	CATA_T2	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
11/27/2024 13:01	42701	AUGU_T1	1	1	0	0.8	0.8	0	0	0	2	2	0	1800	1800	0
11/27/2024 13:02	10705	CATA_T2	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
11/27/2024 13:03	55507	HERS_T1	10	24	14	0.23	0.25	0.02	-0.01	-0.01	0	0	0	0	0	0
11/27/2024 13:03	55501	HERS_T1	52	52	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
11/27/2024 13:05	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 13:05	65603	QVIL_T2	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
11/27/2024 13:05	65601	QVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/27/2024 13:06	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 13:06	14603	SWHI_T1	0	1	1	0	0.4	0.4	-1.03	-1.02	1	1	0	600	600	0
11/27/2024 13:06	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 13:06	65601	QVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/27/2024 13:07	65601	QVIL_T2	1	1	0	0.1	0.1	0	-1.22	-1.21	1	1	0	900	900	0
11/27/2024 13:07	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 13:07	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 13:08	26002	WDAM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/27/2024 13:08	14603	SWHI_T1	0	1	1	0	0.4	0.4	-2.06	-2.04	2	2	0	1200	1200	0
11/27/2024 13:08	14601	SWHI_T1	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
11/27/2024 13:10	14601	SWHI_T1	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
11/27/2024 13:10	14603	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/27/2024 13:11	59102	WALK_T2	0	5	5	0	0.32	0.32	0	0	0	0	0	0	0	0
11/27/2024 13:11	59101	WALK_T2	0	70	70	0	0.33	0.33	-0.38	-0.4	0	0	0	0	0	0
11/27/2024 13:15	40802	EXCH_T2	1	0	-1	0.3	0	-0.3	-0.18	-0.19	0	0	0	0	0	0
11/27/2024 13:16	14601	SWHI_T1	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
11/27/2024 13:16	63601	LETO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/27/2024 13:16	14603	SWHI_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/27/2024 13:16	63602	LETO_T1	0	0	0	0	0	0	-0.59	-0.28	0	0	0	0	0	0
11/27/2024 13:18	52401	GRPA_T2	1	2	1	0.3	0.3	0	-0.61	-0.6	0	0	0	0	0	0
11/27/2024 13:18	52403	GRPA_T2	3	2	-1	0.63	0.7	0.07	0	0	0	0	0	0	0	0
11/27/2024 13:18	63602	LETO_T1	0	0	0	0	0	0	-0.59	-0.28	0	0	0	0	0	0
11/27/2024 13:18	63601	LETO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/27/2024 13:18	52402	GRPA_T2	6	4	-2	0.52	0.58	0.06	0	0	0	0	0	0	0	0
11/27/2024 13:20	58003	WCAR_T1	1	1	0	1.5	0.8	-0.7	0.66	0.61	0	0	0	0	0	0
11/27/2024 13:20	58001	WCAR_T1	4	4	0	1.55	0.85	-0.7	0	0	0	0	0	0	0	0
11/27/2024 13:26	44301	BEAV_T2	1	1	0	2.6	2.3	-0.3	0	0	0	0	0	0	0	0
11/27/2024 13:29	64204	KINZ_T1	4	64	60	0.38	0.42	0.04	0	0	0	0	0	0	0	0
11/27/2024 13:29	64203	KINZ_T1	0	0	0	0	0	0	-0.08	0.63	2	1	-1	1800	600	-1200
11/27/2024 13:34	55002	NEWP_T1	7	7	0	1.1	1.36	0.26	-0.21	-0.24	0	0	0	0	0	0
11/27/2024 13:34	55001	NEWP_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/27/2024 13:34	64901	MILL_T1	8	7	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/27/2024 13:34	64904	MILL_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
11/27/2024 13:36	55001	NEWP_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/27/2024 13:36	57401	SPAN_T1	22	9	-13	0.25	0.34	0.09	-1.12	-0.92	1	1	0	600	600	0
11/27/2024 13:36	55002	NEWP_T1	7	7	0	1.1	1.36	0.26	-0.21	-0.24	0	0	0	0	0	0
11/27/2024 13:36	57403	SPAN_T1	87	26	-61	0.24	0.32	0.08	0	0	0	0	0	0	0	0
11/27/2024 13:37	57403	SPAN_T1	87	26	-61	0.24	0.32	0.08	0	0	0	0	0	0	0	0
11/27/2024 13:37	57401	SPAN_T1	22	9	-13	0.25	0.34	0.09	-0.92	-0.84	1	1	0	600	600	0
11/27/2024 13:38	57401	SPAN_T1	22	9	-13	0.25	0.34	0.09	-0.92	-0.84	1	1	0	600	600	0
11/27/2024 13:38	57403	SPAN_T1	87	26	-61	0.24	0.32	0.08	0.05	0.05	0	0	0	0	0	0
11/27/2024 13:40	57403	SPAN_T1	87	26	-61	0.24	0.32	0.08	0.05	0.05	0	0	0	0	0	0
11/27/2024 13:40	57401	SPAN_T1	22	9	-13	0.25	0.34	0.09	-2.75	-2.53	3	3	0	1800	1800	0
11/27/2024 13:54	14401	SSLA_T1	0	0	0	0	0	0	-0.58	-0.57	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/27/2024 13:54	14402	SSLA_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
11/27/2024 13:55	65802	RTWN_T2	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
11/27/2024 14:03	65502	MOJO_T2	8	286	278	0.1	0.18	0.08	0	0	0	0	0	0	0	0
11/27/2024 14:03	65503	MOJO_T2	0	21	21	0	0.1	0.1	-0.15	-0.17	0	0	0	0	0	0
11/27/2024 14:04	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
11/27/2024 14:07	65502	MOJO_T2	8	286	278	0.1	0.18	0.08	-1.03	-0.99	0	0	0	0	0	0
11/27/2024 14:07	65503	MOJO_T2	0	21	21	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 14:08	65502	MOJO_T2	8	286	278	0.1	0.18	0.08	-1.03	-0.99	0	0	0	0	0	0
11/27/2024 14:08	65503	MOJO_T2	0	21	21	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 14:11	54601	SUMM_T2	6	9	3	0.42	0.46	0.04	0	0	0	0	0	0	0	0
11/27/2024 14:11	54603	SUMM_T2	0	0	0	0	0	0	-0.47	-0.5	1	1	0	900	900	0
11/27/2024 14:11	54602	SUMM_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 14:12	11301	EMMA_T1	0	0	0	0	0	0	-1.72	-1.76	0	0	0	0	0	0
11/27/2024 14:13	54601	SUMM_T2	6	9	3	0.42	0.46	0.04	0	0	0	0	0	0	0	0
11/27/2024 14:13	54603	SUMM_T2	0	0	0	0	0	0	-0.47	-0.5	1	1	0	900	900	0
11/27/2024 14:13	61802	EELI_T2	0	0	0	0	0	0	-0.41	-0.47	0	0	0	0	0	0
11/27/2024 14:13	54602	SUMM_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 14:14	17401	FOHI_T1	0	0	0	0	0	0	-1.03	-1.05	0	0	0	0	0	0
11/27/2024 14:14	11301	EMMA_T1	0	0	0	0	0	0	-1.72	-1.76	0	0	0	0	0	0
11/27/2024 14:22	14801	TREI_T2	1	1	0	0.5	0.2	-0.3	0.36	0.34	0	0	0	0	0	0
11/27/2024 14:22	43301	WATS_T2	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
11/27/2024 14:23	57403	SPAN_T1	155	80	-75	0.32	0.3	-0.02	0.05	0.05	0	0	0	0	0	0
11/27/2024 14:23	57401	SPAN_T1	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
11/27/2024 14:24	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/27/2024 14:24	57401	SPAN_T1	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
11/27/2024 14:24	57403	SPAN_T1	155	80	-75	0.32	0.3	-0.02	0	0	0	0	0	0	0	0
11/27/2024 14:25	42504	ALTA_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
11/27/2024 14:25	42503	ALTA_T2	3	0	-3	0.1	0	-0.1	0.96	0.7	0	0	0	0	0	0
11/27/2024 14:25	42501	ALTA_T2	3	0	-3	0.1	0	-0.1	-0.04	-0.04	1	1	0	600	600	0
11/27/2024 14:26	54602	SUMM_T2	0	12	12	0	0.17	0.17	0	0	0	0	0	0	0	0
11/27/2024 14:26	57401	SPAN_T1	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
11/27/2024 14:26	57403	SPAN_T1	155	80	-75	0.32	0.3	-0.02	0.05	0.05	0	0	0	0	0	0
11/27/2024 14:26	54601	SUMM_T2	6	10	4	0.48	0.45	-0.03	-3	-2.99	2	2	0	2100	2100	0
11/27/2024 14:27	57401	SPAN_T1	2	2	0	1	1.2	0.2	-0.92	-0.93	1	1	0	600	600	0
11/27/2024 14:27	57403	SPAN_T1	155	80	-75	0.32	0.3	-0.02	0.05	0.05	0	0	0	0	0	0
11/27/2024 14:28	54602	SUMM_T2	0	12	12	0	0.17	0.17	0	0	0	0	0	0	0	0
11/27/2024 14:28	54601	SUMM_T2	6	10	4	0.48	0.45	-0.03	-3	-2.99	2	2	0	2100	2100	0
11/27/2024 14:30	54602	SUMM_T2	3	12	9	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/27/2024 14:30	54601	SUMM_T2	9	9	0	0.46	0.47	0.01	-3	-2.99	2	2	0	2100	2100	0
11/27/2024 14:31	21206	ECAR_T2	1	1	0	7.9	8.2	0.3	0.1	0.14	0	0	0	0	0	0
11/27/2024 14:31	21204	ECAR_T2	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 14:34	20201	JERM_T1	0	0	0	0	0	0	0.01	-0.01	2	2	0	2400	2400	0
11/27/2024 14:36	65503	MOJO_T2	10	88	78	0.1	0.1	0	-0.15	-0.24	0	0	0	0	0	0
11/27/2024 14:36	64101	REFR_T1	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
11/27/2024 14:36	65502	MOJO_T2	280	296	16	0.18	0.21	0.03	0	0	0	0	0	0	0	0
11/27/2024 14:37	65502	MOJO_T2	280	296	16	0.18	0.21	0.03	-0.93	-0.91	0	0	0	0	0	0
11/27/2024 14:37	65503	MOJO_T2	10	88	78	0.1	0.1	0	0	0	0	0	0	0	0	0
11/27/2024 14:38	14802	TREI_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
11/27/2024 14:38	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/27/2024 14:42	44302	BEAV_T2	0	0	0	0	0	0	-0.08	-0.04	0	0	0	0	0	0
11/27/2024 14:42	65802	RTWN_T2	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
11/27/2024 14:45	42501	ALTA_T2	0	0	0	0	0	0	-0.04	-0.01	1	1	0	600	600	0
11/27/2024 14:45	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 14:47	55002	NEWP_T1	6	6	0	1.27	1.42	0.15	0	0	0	0	0	0	0	0
11/27/2024 14:47	55001	NEWP_T1	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
11/27/2024 14:48	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 14:49	61701	ELIZ_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
11/27/2024 14:49	61703	ELIZ_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
11/27/2024 14:51	61701	ELIZ_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
11/27/2024 14:51	61703	ELIZ_T1	2	0	-2	0.25	0	-0.25	-1.83	-1.92	1	1	0	900	900	0
11/27/2024 14:52	65603	QVIL_T2	0	0	0	0	0	0	0.24	0.59	0	0	0	0	0	0
11/27/2024 14:52	65601	QVIL_T2	10	15	5	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
11/27/2024 14:52	65602	QVIL_T2	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
11/27/2024 14:54	65603	QVIL_T2	0	0	0	0	0	0	0.24	0.59	0	0	0	0	0	0
11/27/2024 14:54	55105	WERT_T1	0	0	0	0	0	0	-0.72	-0.72	1	1	0	900	900	0
11/27/2024 14:54	65602	QVIL_T2	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
11/27/2024 14:54	65601	QVIL_T2	10	15	5	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
11/27/2024 14:58	11203	ELHE_T1	0	0	0	0	0	0	0.78	0.79	0	0	0	0	0	0
11/27/2024 15:01	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/27/2024 15:01	52402	GRPA_T2	3	4	1	0.83	1.03	0.2	-1	-0.99	0	0	0	0	0	0
11/27/2024 15:01	52401	GRPA_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
11/27/2024 15:01	52403	GRPA_T2	8	11	3	0.15	0.27	0.12	0	0	0	0	0	0	0	0
11/27/2024 15:02	12007	HATF_T1	0	0	0	0	0	0	-0.91	-0.92	3	3	0	3600	3600	0
11/27/2024 15:06	14201	EALL_T1	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
11/27/2024 15:07	60501	NMAN_T2	16	23	7	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
11/27/2024 15:07	60502	NMAN_T2	0	0	0	0	0	0	-0.3	-0.41	0	0	0	0	0	0
11/27/2024 15:08	60501	NMAN_T2	16	23	7	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
11/27/2024 15:08	60502	NMAN_T2	0	0	0	0	0	0	-0.3	-0.41	0	0	0	0	0	0
11/27/2024 15:10	60404	DILL_T2	1	1	0	4.6	0	-4.6	-0.35	-0.3	1	1	0	1200	1200	0
11/27/2024 15:11	54505	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
11/27/2024 15:11	45302	WBER_T2	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
11/27/2024 15:11	45303	WBER_T2	1	1	0	9.7	9.8	0.1	0	0	0	0	0	0	0	0
11/27/2024 15:11	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	-2.09	-2.05	1	1	0	600	600	0
11/27/2024 15:12	60404	DILL_T2	1	1	0	4.6	0	-4.6	-0.35	-0.3	1	1	0	1200	1200	0
11/27/2024 15:13	54501	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
11/27/2024 15:13	54505	ENOL_T2	1	1	0	1	1	0	-2.72	-2.68	2	2	0	1200	1200	0
11/27/2024 15:14	54505	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
11/27/2024 15:14	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
11/27/2024 15:14	54503	ENOL_T2	0	0	0	0	0	0	-0.36	-0.41	1	1	0	600	600	0
11/27/2024 15:15	46004	BERW_T2	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
11/27/2024 15:27	44802	EDAN_T2	0	0	0	0	0	0	-2.19	-2.27	0	0	0	0	0	0
11/27/2024 15:27	44801	EDAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/27/2024 15:28	44801	EDAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/27/2024 15:28	44802	EDAN_T2	0	0	0	0	0	0	-2.19	-2.27	0	0	0	0	0	0
11/27/2024 15:29	44801	EDAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/27/2024 15:29	44802	EDAN_T2	0	0	0	0	0	0	-2.19	-2.27	0	0	0	0	0	0
11/27/2024 15:30	44802	EDAN_T2	0	0	0	0	0	0	-4.39	-4.53	0	0	0	0	0	0
11/27/2024 15:32	44801	EDAN_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/27/2024 15:32	44802	EDAN_T2	0	0	0	0	0	0	-2.19	-2.27	0	0	0	0	0	0
11/27/2024 15:35	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 15:44	54502	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/27/2024 15:44	54505	ENOL_T2	1	1	0	0.9	0.9	0	-1.32	-1.31	1	1	0	600	600	0
11/27/2024 15:45	54505	ENOL_T2	1	1	0	0.9	0.8	-0.1	-1.32	-1.31	1	1	0	600	600	0
11/27/2024 15:45	54502	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/27/2024 15:51	44502	HAMI_T2	1	1	0	3.4	3.2	-0.2	0	0	0	0	0	0	0	0
11/27/2024 15:51	44505	HAMI_T2	0	0	0	0	0	0	0.77	0.95	0	0	0	0	0	0
11/27/2024 15:59	54502	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/27/2024 15:59	54505	ENOL_T2	1	1	0	0.9	0.8	-0.1	-1.31	-1.33	1	1	0	600	600	0
11/27/2024 16:04	64305	LINC_T1	0	0	0	0	0	0	-0.07	-0.17	0	0	0	0	0	0
11/27/2024 17:46	11203	ELHE_T1	0	0	0	0	0	0	0.78	0.85	0	0	0	0	0	0
11/27/2024 18:28	45303	WBER_T2	1	2	1	9.8	4.95	-4.85	0	0	0	0	0	0	0	0
11/27/2024 18:28	45302	WBER_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
11/27/2024 18:31	46004	BERW_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
11/27/2024 18:31	46002	BERW_T2	0	0	0	0	0	0	-0.12	-0.18	0	0	0	0	0	0
11/27/2024 18:32	15203	SFAR_T2	0	0	0	0	0	0	-1.32	-1.32	0	0	0	0	0	0
11/27/2024 18:32	16101	BING_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
11/27/2024 18:32	44802	EDAN_T2	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
11/27/2024 18:32	14601	SWHI_T1	0	0	0	0	0	0	-0.84	-0.81	0	0	0	0	0	0
11/27/2024 18:32	13302	ORVI_T2	0	1	1	0	0.1	0.1	1.39	1.45	0	0	0	0	0	0
11/27/2024 18:32	45501	DERR_T2	0	0	0	0	0	0	0.42	0.29	2	2	0	1800	1800	0
11/27/2024 18:32	44801	EDAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/27/2024 18:32	15204	SFAR_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
11/27/2024 18:33	44502	HAMI_T2	1	1	0	2.7	3.2	0.5	0	0	0	0	0	0	0	0
11/27/2024 18:33	44505	HAMI_T2	0	0	0	0	0	0	0.97	0.97	0	0	0	0	0	0
11/27/2024 18:33	17802	GILB_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
11/27/2024 18:33	44501	HAMI_T2	0	10	10	0	0.17	0.17	0	0	0	0	0	0	0	0
11/27/2024 18:34	10103	ALLE_T3	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
11/27/2024 18:34	11301	EMMA_T1	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
11/27/2024 18:34	43301	WATS_T2	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
11/27/2024 18:34	25402	LAHA_T2	0	0	0	0	0	0	-0.76	-0.74	0	0	0	0	0	0
11/27/2024 18:34	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:34	14603	SWHI_T1	0	0	0	0	0	0	-0.98	-0.96	1	1	0	600	600	0
11/27/2024 18:34	61001	DONV_T1	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
11/27/2024 18:34	10805	CHHI_T2	1	1	0	7.1	7.1	0	-1.16	-1.11	1	1	0	600	600	0
11/27/2024 18:34	14601	SWHI_T1	0	0	0	0	0	0	-0.84	-0.81	0	0	0	0	0	0
11/27/2024 18:34	43304	WATS_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:34	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:34	43302	WATS_T2	1	4	3	0.1	0.53	0.43	0	0	0	0	0	0	0	0
11/27/2024 18:34	10101	ALLE_T3	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
11/27/2024 18:34	14801	TREI_T2	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
11/27/2024 18:35	44501	HAMI_T2	0	10	10	0	0.17	0.17	0	0	0	0	0	0	0	0
11/27/2024 18:35	46004	BERW_T2	0	4	4	0	0.2	0.2	-0.8	-0.82	0	0	0	0	0	0
11/27/2024 18:35	24901	WHHA_T1	0	0	0	0	0	0	-0.63	-0.59	0	0	0	0	0	0
11/27/2024 18:35	67402	WAKE_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
11/27/2024 18:35	42701	AUGU_T1	1	2	1	0.7	0.3	-0.4	0	0	2	2	0	1800	1800	0
11/27/2024 18:35	65207	PRIN_T4	2	2	0	2.65	3.95	1.3	0	0	1	1	0	1200	1200	0
11/27/2024 18:35	21206	ECAR_T2	2	2	0	3.6	3.55	-0.05	0.13	0.13	0	0	0	0	0	0
11/27/2024 18:35	44801	EDAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/27/2024 18:35	44502	HAMI_T2	1	1	0	2.7	3.2	0.5	0	0	0	0	0	0	0	0
11/27/2024 18:35	24902	WHHA_T1	6	5	-1	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
11/27/2024 18:35	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:35	44802	EDAN_T2	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
11/27/2024 18:35	40802	EXCH_T2	0	0	0	0	0	0	-0.27	-0.23	0	0	0	0	0	0
11/27/2024 18:35	44505	HAMI_T2	0	0	0	0	0	0	0.97	0.97	0	0	0	0	0	0
11/27/2024 18:35	57401	SPAN_T1	2	2	0	0.35	0.35	0	-0.84	-0.85	1	1	0	600	600	0
11/27/2024 18:35	45501	DERR_T2	0	0	0	0	0	0	1.27	0.88	6	6	0	5400	5400	0
11/27/2024 18:36	65502	MOJO_T2	212	285	73	0.17	0.29	0.12	-1.15	-1.13	0	0	0	0	0	0
11/27/2024 18:36	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:36	64302	LINC_T2	0	0	0	0	0	0	1	1.03	0	0	0	0	0	0
11/27/2024 18:36	14704	TREX_T1	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
11/27/2024 18:36	67106	SPRI_T2	0	0	0	0	0	0	-1.33	-1.33	1	1	0	900	900	0
11/27/2024 18:36	46206	DANV_T2	0	0	0	0	0	0	1.27	1.36	2	2	0	2100	2100	0
11/27/2024 18:36	10801	CHHI_T1	0	0	0	0	0	0	-0.89	-0.92	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/27/2024 18:36	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:36	10705	CATA_T2	0	0	0	0	0	0	0	0.06	0	0	0	0	0	0
11/27/2024 18:36	47203	FAXO_T2	1	1	0	1.2	0.6	-0.6	-0.38	-0.37	0	0	0	0	0	0
11/27/2024 18:36	10101	ALLE_T3	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
11/27/2024 18:36	14801	TREI_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
11/27/2024 18:36	15204	SFAR_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
11/27/2024 18:36	20403	ASHF_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
11/27/2024 18:36	14802	TREI_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
11/27/2024 18:36	44802	EDAN_T2	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
11/27/2024 18:36	20401	ASHF_T2	1	1	0	0.1	0.2	0.1	-0.24	-0.22	0	0	0	0	0	0
11/27/2024 18:36	10103	ALLE_T3	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
11/27/2024 18:36	14705	TREX_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
11/27/2024 18:36	63306	GREE_T1	0	0	0	0	0	0	-1.18	-1.19	0	0	0	0	0	0
11/27/2024 18:36	65503	MOJO_T2	25	128	103	0.1	0.17	0.07	-0.35	-0.39	0	0	0	0	0	0
11/27/2024 18:36	14201	EALL_T1	0	0	0	0	0	0	0.44	0.48	0	0	0	0	0	0
11/27/2024 18:36	63305	GREE_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 18:36	10702	CATA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/27/2024 18:36	15201	SFAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:36	44801	EDAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/27/2024 18:36	15203	SFAR_T2	0	0	0	0	0	0	-1.32	-1.3	0	0	0	0	0	0
11/27/2024 18:36	13303	ORVI_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
11/27/2024 18:37	60101	COCA_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
11/27/2024 18:37	20201	JERM_T1	0	0	0	0	0	0	-0.46	-0.54	2	2	0	2400	2400	0
11/27/2024 18:37	60301	TWVA_T2	0	0	0	0	0	0	-6.78	-5.44	4	2	-2	3600	2400	-1200
11/27/2024 18:37	40802	EXCH_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
11/27/2024 18:37	54504	ENOL_T2	0	0	0	0	0	0	-1.06	-1.04	1	1	0	600	600	0
11/27/2024 18:37	60403	DILL_T2	4	6	2	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
11/27/2024 18:37	63601	LETO_T1	3	5	2	0.37	0.38	0.01	0	0	0	0	0	0	0	0
11/27/2024 18:37	60404	DILL_T2	2	2	0	2.45	2.5	0.05	-0.51	-0.51	1	1	0	1200	1200	0
11/27/2024 18:37	44802	EDAN_T2	0	0	0	0	0	0	-0.94	-0.93	0	0	0	0	0	0
11/27/2024 18:37	54505	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/27/2024 18:37	63602	LETO_T1	0	0	0	0	0	0	-0.51	-0.57	0	0	0	0	0	0
11/27/2024 18:37	44801	EDAN_T2	0	1	1	0	0.3	0.3	-0.44	-0.43	0	0	0	0	0	0
11/27/2024 18:38	40703	FFLD_T1	4	4	0	0.45	0.48	0.03	0	0	0	0	0	0	0	0
11/27/2024 18:38	65802	RTWN_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
11/27/2024 18:38	42701	AUGU_T1	1	2	1	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
11/27/2024 18:38	53903	HALI_T2	2	2	0	1.35	1.3	-0.05	-0.15	-0.15	0	0	0	0	0	0
11/27/2024 18:38	61303	EARL_T1	0	0	0	0	0	0	0.17	0.13	0	0	0	0	0	0
11/27/2024 18:38	67801	WLAN_T1	2	2	0	0.15	0.35	0.2	-0.22	-0.14	0	0	0	0	0	0
11/27/2024 18:38	63601	LETO_T1	3	5	2	0.37	0.38	0.01	0	0	0	0	0	0	0	0
11/27/2024 18:38	64501	LAVI_T1	41	85	44	0.12	0.27	0.15	-0.39	-0.41	0	0	0	0	0	0
11/27/2024 18:38	11301	EMMA_T1	0	0	0	0	0	0	-0.85	-0.83	0	0	0	0	0	0
11/27/2024 18:38	67802	WLAN_T1	18	21	3	0.27	0.43	0.16	0	0	0	0	0	0	0	0
11/27/2024 18:38	40701	FFLD_T1	33	44	11	0.54	0.55	0.01	0	0	0	0	0	0	0	0
11/27/2024 18:38	14603	SWHI_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	600	600	0
11/27/2024 18:38	61802	EELI_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
11/27/2024 18:38	10705	CATA_T2	0	0	0	0	0	0	0	0.18	0	0	0	0	0	0
11/27/2024 18:38	64503	LAVI_T1	7	26	19	0.11	0.28	0.17	0	0	0	0	0	0	0	0
11/27/2024 18:38	14401	SSLA_T1	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
11/27/2024 18:38	40702	FFLD_T1	59	82	23	0.21	0.22	0.01	0	0	0	0	0	0	0	0
11/27/2024 18:38	64502	LAVI_T1	75	254	179	0.14	0.32	0.18	0	0	0	0	0	0	0	0
11/27/2024 18:38	65601	QVIL_T2	0	0	0	0	0	0	-1.19	-1.23	1	1	0	900	900	0
11/27/2024 18:38	10702	CATA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/27/2024 18:38	55002	NEWP_T1	5	5	0	0.38	0.54	0.16	-0.24	-0.24	0	0	0	0	0	0
11/27/2024 18:38	15103	UPHA_T2	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
11/27/2024 18:38	13302	ORVI_T2	0	1	1	0	0.1	0.1	1.45	1.52	0	0	0	0	0	0
11/27/2024 18:38	63501	HEID_TBK1-2	0	1	1	0	0.3	0.3	0.48	0.46	0	0	0	0	0	0
11/27/2024 18:38	63602	LETO_T1	0	0	0	0	0	0	-0.51	-0.57	0	0	0	0	0	0
11/27/2024 18:38	48901	FOSP_T2	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
11/27/2024 18:38	67804	WLAN_T1	2	3	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/27/2024 18:38	53902	HALI_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
11/27/2024 18:38	39601	LNFD_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
11/27/2024 18:38	67805	WLAN_T1	215	342	127	0.19	0.26	0.07	0	0	0	0	0	0	0	0
11/27/2024 18:39	63306	GREE_T1	0	0	0	0	0	0	-1.18	-1.19	0	0	0	0	0	0
11/27/2024 18:39	67803	WLAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:39	46206	DANV_T2	0	0	0	0	0	0	1.36	1.26	2	2	0	2100	2100	0
11/27/2024 18:39	67804	WLAN_T1	2	3	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/27/2024 18:39	67801	WLAN_T1	2	2	0	0.35	0.35	0.2	0	0	0	0	0	0	0	0
11/27/2024 18:39	20401	ASHF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/27/2024 18:39	42701	AUGU_T1	1	2	1	0.7	0.3	-0.4	0	0	2	2	0	1800	1800	0
11/27/2024 18:39	41902	REED_T1	2	0	-2	0.15	0	-0.15	1.1	1.07	0	0	0	0	0	0
11/27/2024 18:39	60801	BUCK_T1	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
11/27/2024 18:39	20403	ASHF_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
11/27/2024 18:39	65207	PRIN_T4	2	2	0	2.65	3.95	1.3	0	0	0	0	0	0	0	0
11/27/2024 18:39	41901	REED_T1	2	6	4	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
11/27/2024 18:39	63305	GREE_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 18:39	45502	DERR_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
11/27/2024 18:39	58802	COCO_T2	0	0	0	0	0	0	-0.57	-0.55	1	1	0	1200	1200	0
11/27/2024 18:39	57401	SPAN_T1	2	2	0	0.35	0.35	0	-1.71	-1.7	2	2	0	1200	1200	0
11/27/2024 18:39	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:39	67805	WLAN_T1	215	342	127	0.19	0.26	0.07	-1.5	-1.55	0	0	0	0	0	0
11/27/2024 18:39	45702	LIND_T2	1	1	0	0.9	1.3	0.4	-0.51	-0.53	0	0	0	0	0	0
11/27/2024 18:39	67802	WLAN_T1	18	21	3	0.27	0.43	0.16	0	0	0	0	0	0	0	0
11/27/2024 18:40	58003	WCAR_T1	1	1	0	0.2	0.4	0.2	0.45	0.43	0	0	0	0	0	0
11/27/2024 18:40	67803	WLAN_T1	0	0	0	0	0	0	-3.95	-4.12	0	0	0	0	0	0
11/27/2024 18:40	14601	SWHI_T1	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
11/27/2024 18:40	60502	NMAN_T2	0	0	0	0	0	0	-0.39	-0.53	0	0	0	0	0	0
11/27/2024 18:40	67802	WLAN_T1	18	21	3	0.27	0.43	0.16	0	0	0	0	0	0	0	0
11/27/2024 18:40	60201	ATGL_T2	0	0	0	0	0	0	-0.16	-0.22	0	0	0	0	0	0
11/27/2024 18:40	63501	HEID_TBK1-2	0	1	1	0	0.3	0.3	0.48	0.46	0	0	0	0	0	0
11/27/2024 18:40	60403	DILL_T2	4	6	2	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
11/27/2024 18:40	10705	CATA_T2	0	0	0	0	0	0	0	0.06	0	0	0	0	0	0
11/27/2024 18:40	14603	SWHI_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	600	600	0
11/27/2024 18:40	13302	ORVI_T2	0	1	1	0	0.1	0.1	1.45	1.52	0	0	0	0	0	0
11/27/2024 18:40	42701	AUGU_T1	1	2	1	0.7	0.3	-0.4	0	0	2	2	0	1800	1800	0
11/27/2024 18:40	14204	EALL_T2	0	0	0	0	0	0	0.26	0.1	0	0	0	0	0	0
11/27/2024 18:40	58001	WCAR_T1	4	4	0	0.33	0.43	0.1	0	0	0	0	0	0	0	0
11/27/2024 18:40	67805	WLAN_T1	215	342	127	0.19	0.26	0.07	0	0	0	0	0	0	0	0
11/27/2024 18:40	67804	WLAN_T1	2	3	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/27/2024 18:40	60501	NMAN_T2	7	18	11	0.13	0.16	0.03	0	0	0	0	0	0	0	0
11/27/2024 18:40	60404	DILL_T2	2	2	0	2.45	2.5	0.05	-0.51	-0.51	1	1	0	1200	1200	0
11/27/2024 18:40	10702	CATA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/27/2024 18:40	45501	DERR_T2	0	0	0	0	0	0	0.29	0.32	2	2	0	1800	1800	0
11/27/2024 18:40	67801	WLAN_T1	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
11/27/2024 18:40	54601	SUMM_T2	12	8	-4	0.35	0.48	0.13	-4.18	-4.14	2	2	0	2100	2100	0
11/27/2024 18:40	60101	COCA_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
11/27/2024 18:40	54602	SUMM_T2	4	8	4	0.18	0.3	0.12	0	0	0	0	0	0	0	0
11/27/2024 18:40	42503	ALTA_T2	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
11/27/2024 18:40	11301	EMMA_T1	0	0	0	0	0	0	-0.85	-0.83	0	0	0	0	0	0
11/27/2024 18:41	57401	SPAN_T1	2	2	0	0.35	0.35	0	-0.85	-0.85	1	1	0	600	600	0
11/27/2024 18:41	53902	HALI_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
11/27/2024 18:41	52402	GRPA_T2	3	3	0	0.47	0.6	0.13	-0.86	-0.91	0	0	0	0	0	0
11/27/2024 18:41	63501	HEID_TBK1-2	0	1	1	0	0.3	0.3	0.48	0.46	0	0	0	0	0	0
11/27/2024 18:41	24902	WHHA_T1	6	5	-1	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
11/27/2024 18:41	24901	WHHA_T1	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
11/27/2024 18:41	59101	WALK_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
11/27/2024 18:41	67401	WAKE_T2	0	0	0	0	0	0	-1.22	-1.18	0	0	0	0	0	0
11/27/2024 18:41	54506	ENOL_T2	0	0	0	0	0	0	0.41	0.34	1	1	0	600	600	0
11/27/2024 18:41	57203	ROSS_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
11/27/2024 18:41	58001	WCAR_T1	4	4	0	0.33	0.43	0.1	0	0	0	0	0	0	0	0
11/27/2024 18:41	44802	EDAN_T2	0	0	0	0	0	0	-0.94	-0.93	0	0	0	0	0	0
11/27/2024 18:41	55508	HERS_T2	2	2	0	1.2	1.2	0	-5.29	-5.29	2	2	0	2400	2400	0
11/27/2024 18:41	58202	NEWV_T1	0	0	0	0	0	0	0.13	0.05	0	0	0	0	0	0
11/27/2024 18:41	49803	UNIV_T1	1	1	0	5.3	5.2	-0.1	-1.09	-1.06	0	0	0	0	0	0
11/27/2024 18:41	57403	SPAN_T1	0	0	0	0	0	0	0.11	0.06	0	0	0	0	0	0
11/27/2024 18:41	60701	BREC_T1	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
11/27/2024 18:41	52403	GRPA_T2	3	3	0	0.63	0.7	0.07	0	0	0	0	0	0	0	0
11/27/2024 18:41	45701	LIND_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
11/27/2024 18:41	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:41	44801	EDAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/27/2024 18:41	54505	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/27/2024 18:41	65603	QVIL_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
11/27/2024 18:41	58003	WCAR_T1	1	1	0	0.2	0.4	0.2	0.45	0.43	0	0	0	0	0	0
11/27/2024 18:41	45702	LIND_T2	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
11/27/2024 18:41	53903	HALI_T2	2	2	0	1.35	1.3	-0.05	0	0	0	0	0	0	0	0
11/27/2024 18:41	64702	LITI_T2	0	0	0	0	0	0	-0.72	-0.77	0	0	0	0	0	0
11/27/2024 18:41	53901	HALI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:42	64305	LINC_T1	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
11/27/2024 18:42	10702	CATA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/27/2024 18:42	10705	CATA_T2	0	0	0	0	0	0	0	0.06	0	0	0	0	0	0
11/27/2024 18:42	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
11/27/2024 18:42	63305	GREE_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 18:42	13303	ORVI_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
11/27/2024 18:42	54601	SUMM_T2	12	8	-4	0.35	0.48	0.13	-4.18	-4.14	2	2	0	2100	2100	0
11/27/2024 18:42	55501	HERS_T1	52	52	0	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
11/27/2024 18:42	44801	EDAN_T2	0	1	1	0	0.3	0.3	-0.44	-0.43	0	0	0	0	0	0
11/27/2024 18:42	63306	GREE_T1	0	0	0	0	0	0	-1.18	-1.19	0	0	0	0	0	0
11/27/2024 18:42	55503	HERS_T1	0	0	0	0	0	0	-1.73	-1.73	1	1	0	1200	1200	0
11/27/2024 18:42	44505	HAMI_T2	0	0	0	0	0	0	0.97	0.64	0	0	0	0	0	0
11/27/2024 18:42	44501	HAMI_T2	0	10	10	0	0.17	0.17	0	0	0	0	0	0	0	0
11/27/2024 18:42	11301	EMMA_T1	0	0	0	0	0	0	-0.85	-0.83	0	0	0	0	0	0
11/27/2024 18:42	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:42	63501	HEID_TBK1-2	0	1	1	0	0.3	0.3	0.48	0.46	0	0	0	0	0	0
11/27/2024 18:42	44502	HAMI_T2	1	1	0	2.7	3.2	0.5	0	0	0	0	0	0	0	0
11/27/2024 18:42	42701	AUGU_T1	1	2	1	0.7	0.3	-0.4	0	0	2	2	0	1800	1800	0
11/27/2024 18:42	55002	NEWP_T1	5	5	0	0.38	0.54	0.16	-0.24	-0.24	0	0	0	0	0	0
11/27/2024 18:42	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
11/27/2024 18:42	65603	QVIL_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
11/27/2024 18:42	60502	NMAN_T2	0	0	0	0	0	0	-0.19	-0.27	0	0	0	0	0	0
11/27/2024 18:42	60701	BREC_T1	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
11/27/2024 18:42	55507	HERS_T1	4	6	2	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
11/27/2024 18:42	10701	CATA_T2	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
11/27/2024 18:42	54602	SUMM_T2	4	8	4	0.18	0.3	0.12	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/27/2024 18:42	60501	NMAN_T2	7	18	11	0.13	0.16	0.03	0	0	0	0	0	0	0	0
11/27/2024 18:42	59101	WALK_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
11/27/2024 18:42	42503	ALTA_T2	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
11/27/2024 18:43	65203	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:43	52403	GRPA_T2	3	3	0	0.63	0.7	0.07	0	0	0	0	0	0	0	0
11/27/2024 18:43	57401	SPAN_T1	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
11/27/2024 18:43	52401	GRPA_T2	0	0	0	0	0	0	-0.5	-0.48	0	0	0	0	0	0
11/27/2024 18:43	54601	SUMM_T2	12	8	-4	0.35	0.48	0.13	-4.18	-4.14	2	2	0	2100	2100	0
11/27/2024 18:43	54602	SUMM_T2	4	8	4	0.18	0.3	0.12	0	0	0	0	0	0	0	0
11/27/2024 18:43	59101	WALK_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
11/27/2024 18:43	57203	ROSS_T1	0	0	0	0	0	0	-1.07	-1.05	0	0	0	0	0	0
11/27/2024 18:43	52402	GRPA_T2	3	3	0	0.47	0.6	0.13	0	0	0	0	0	0	0	0
11/27/2024 18:43	57403	SPAN_T1	0	0	0	0	0	0	0.22	0.12	0	0	0	0	0	0
11/27/2024 18:43	65503	MOJO_T2	25	128	103	0.1	0.17	0.07	-0.35	-0.39	0	0	0	0	0	0
11/27/2024 18:43	43302	WATS_T2	1	4	3	0.1	0.53	0.43	0	0	0	0	0	0	0	0
11/27/2024 18:43	65205	PRIN_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
11/27/2024 18:43	43304	WATS_T2	0	4	4	0	0	0	-0.47	-0.48	0	0	0	0	0	0
11/27/2024 18:43	64704	LITI_T1	0	0	0	0	0	0	0.4	0.4	1	1	0	600	600	0
11/27/2024 18:43	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.13	0	0	0	0	0	0
11/27/2024 18:43	45802	HEGI_T2	43	40	-3	0.82	0.56	-0.26	1.25	1.21	0	0	0	0	0	0
11/27/2024 18:43	54505	ENOL_T2	1	1	0	0.3	0.4	0.1	-1.26	-1.28	1	1	0	600	600	0
11/27/2024 18:43	60501	NMAN_T2	7	18	11	0.13	0.16	0.03	0	0	0	0	0	0	0	0
11/27/2024 18:43	60502	NMAN_T2	0	0	0	0	0	0	-0.19	-0.27	0	0	0	0	0	0
11/27/2024 18:43	65502	MOJO_T2	212	285	73	0.17	0.29	0.12	0	0	0	0	0	0	0	0
11/27/2024 18:43	57205	ROSS_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
11/27/2024 18:43	65202	PRIN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/27/2024 18:43	58402	MORO_T1	1	1	0	0.1	0.1	0	-0.11	0.21	2	2	0	1500	1200	-300
11/27/2024 18:43	54203	PENN_T1	18	18	0	0.98	1.1	0.12	-0.04	-0.08	0	0	0	0	0	0
11/27/2024 18:43	54201	PENN_T1	7	8	1	0.36	0.36	0	0	0	0	0	0	0	0	0
11/27/2024 18:43	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/27/2024 18:44	45802	HEGI_T2	43	40	-3	0.82	0.56	-0.26	0	0	0	0	0	0	0	0
11/27/2024 18:44	57401	SPAN_T1	2	2	0	0.35	0.35	0	-0.85	-0.85	1	1	0	600	600	0
11/27/2024 18:44	10801	CHHI_T1	0	0	0	0	0	0	-0.89	-0.92	1	1	0	900	900	0
11/27/2024 18:44	46206	DANV_T2	0	0	0	0	0	0	1.36	1.26	2	2	0	2100	2100	0
11/27/2024 18:44	61001	DONV_T1	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
11/27/2024 18:44	45702	LIND_T2	1	1	0	0.9	1.3	0.4	-0.51	-0.53	0	0	0	0	0	0
11/27/2024 18:44	54602	SUMM_T2	4	8	4	0.18	0.3	0.12	0	0	0	0	0	0	0	0
11/27/2024 18:44	58802	COCO_T2	0	0	0	0	0	0	-0.57	-0.55	1	1	0	1200	1200	0
11/27/2024 18:44	64801	MONE_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 18:44	54503	ENOL_T2	0	0	0	0	0	0	-0.39	-0.41	1	1	0	600	600	0
11/27/2024 18:44	54203	PENN_T1	18	18	0	0.98	1.1	0.12	-0.04	-0.08	0	0	0	0	0	0
11/27/2024 18:44	46801	HEPB_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
11/27/2024 18:44	44801	EDAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/27/2024 18:44	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:44	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:44	54201	PENN_T1	7	8	1	0.36	0.36	0	0	0	0	0	0	0	0	0
11/27/2024 18:44	42701	AUGU_T1	1	2	1	0.7	0.3	-0.4	0	0	2	2	0	1800	1800	0
11/27/2024 18:44	46803	HEPB_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
11/27/2024 18:44	54501	ENOL_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
11/27/2024 18:44	54505	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/27/2024 18:44	54603	SUMM_T2	0	0	0	0	0	0	-0.52	-0.49	1	1	0	900	900	0
11/27/2024 18:44	54601	SUMM_T2	12	8	-4	0.35	0.48	0.13	0	0	0	0	0	0	0	0
11/27/2024 18:44	64802	MONE_T2	0	4	4	0	0.13	0.13	-0.1	-0.06	0	0	0	0	0	0
11/27/2024 18:44	60501	NMAN_T2	7	18	11	0.13	0.16	0.03	0	0	0	0	0	0	0	0
11/27/2024 18:44	54206	PENN_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
11/27/2024 18:44	60701	BREC_T1	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
11/27/2024 18:44	60101	COCA_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
11/27/2024 18:44	58202	NEWV_T1	0	0	0	0	0	0	0.07	0.02	0	0	0	0	0	0
11/27/2024 18:44	44802	EDAN_T2	0	0	0	0	0	0	-0.94	-0.93	0	0	0	0	0	0
11/27/2024 18:44	14802	TREI_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
11/27/2024 18:45	54505	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/27/2024 18:45	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:45	55002	NEWP_T1	4	4	0	0.28	0.9	0.62	0	0	0	0	0	0	0	0
11/27/2024 18:45	57203	ROSS_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
11/27/2024 18:45	44501	HAMI_T2	0	10	10	0	0.17	0.17	0	0	0	0	0	0	0	0
11/27/2024 18:45	63305	GREE_T1	3	2	-1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/27/2024 18:45	40701	FFLD_T1	37	48	11	0.52	0.52	0	0	0	0	0	0	0	0	0
11/27/2024 18:45	67804	WLAN_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
11/27/2024 18:45	20401	ASHF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/27/2024 18:45	55001	NEWP_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
11/27/2024 18:45	67805	WLAN_T1	317	344	27	0.23	0.26	0.03	0	0	0	0	0	0	0	0
11/27/2024 18:45	40702	FFLD_T1	54	98	44	0.21	0.23	0.02	0	0	0	0	0	0	0	0
11/27/2024 18:45	20403	ASHF_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
11/27/2024 18:45	57201	ROSS_T1	0	0	0	0	0	0	-1.07	-1.05	0	0	0	0	0	0
11/27/2024 18:45	23901	EFMO_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
11/27/2024 18:45	58302	NOTT_T1	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
11/27/2024 18:45	44502	HAMI_T2	0	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0
11/27/2024 18:45	67803	WLAN_T1	0	0	0	0	0	0	-3.95	-4.12	0	0	0	0	0	0
11/27/2024 18:45	54502	ENOL_T2	0	0	0	0	0	0	-2.02	-1.98	1	1	0	600	600	0
11/27/2024 18:45	53903	HALI_T2	2	2	0	1.05	1.3	0.25	-0.15	-0.15	0	0	0	0	0	0
11/27/2024 18:45	44801	EDAN_T2	0	1	1	0	0.6	0.6	-0.44	-0.43	0	0	0	0	0	0
11/27/2024 18:45	63306	GREE_T1	0	0	0	0	0	0	-1.18	-1.19	0	0	0	0	0	0
11/27/2024 18:45	40703	FFLD_T1	4	4	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
11/27/2024 18:45	67802	WLAN_T1	20	16	-4	0.44	0.51	0.07	0	0	0	0	0	0	0	0
11/27/2024 18:45	67801	WLAN_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
11/27/2024 18:45	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
11/27/2024 18:46	15203	SFAR_T2	0	0	0	0	0	0	-1.32	-1.3	0	0	0	0	0	0
11/27/2024 18:46	54601	SUMM_T2	7	11	4	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
11/27/2024 18:46	64801	MONE_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/27/2024 18:46	14802	TREI_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
11/27/2024 18:46	60701	BREC_T1	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
11/27/2024 18:46	64702	LITI_T2	0	0	0	0	0	0	-0.72	-0.77	0	0	0	0	0	0
11/27/2024 18:46	54603	SUMM_T2	0	0	0	0	0	0	-0.52	-0.49	1	1	0	900	900	0
11/27/2024 18:46	54502	ENOL_T2	0	0	0	0	0	0	-2.02	-1.98	1	1	0	600	600	0
11/27/2024 18:46	40802	EXCH_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
11/27/2024 18:46	18001	ZION_T1	2	2	0	8.75	8.8	0.05	0	0	0	0	0	0	0	0
11/27/2024 18:46	54505	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/27/2024 18:46	15103	UPHA_T2	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
11/27/2024 18:46	63501	HEID_TBK1-2	0	1	1	0	0.3	0.3	0.48	0.46	0	0	0	0	0	0
11/27/2024 18:46	58001	WCAR_T1	4	4	0	0.33	0.43	0.1	0	0	0	0	0	0	0	0
11/27/2024 18:46	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.13	0	0	0	0	0	0
11/27/2024 18:46	54602	SUMM_T2	2	13	11	0.1	0.32	0.22	0	0	0	0	0	0	0	0
11/27/2024 18:46	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:46	58003	WCAR_T1	1	1	0	0.4	0.5	0.1	0.9	0.87	0	0	0	0	0	0
11/27/2024 18:46	64802	MONE_T2	4	2	-2	0.13	0.1	-0.03	-0.1	-0.06	0	0	0	0	0	0
11/27/2024 18:46	57401	SPAN_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
11/27/2024 18:46	55002	NEWP_T1	4	4	0	0.28	0.9	0.62	-0.48	-0.48	0	0	0	0	0	0
11/27/2024 18:46	15204	SFAR_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/27/2024 18:46	67106	SPRI_T2	0	0	0	0	0	0	-1.33	-1.33	1	1	0	900	900	0
11/27/2024 18:47	61701	ELIZ_T1	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
11/27/2024 18:47	60903	DONG_T2	19	90	71	0.12	0.19	0.07	0	0	0	0	0	0	0	0
11/27/2024 18:47	42701	AUGU_T1	2	1	-1	0.2	0.5	0.3	0	0	2	2	0	1800	1800	0
11/27/2024 18:47	44802	EDAN_T2	0	0	0	0	0	0	-0.94	-0.93	0	0	0	0	0	0
11/27/2024 18:47	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:47	60902	DONG_T2	2	5	3	0.25	0.23	-0.02	0.54	0.54	0	0	0	0	0	0
11/27/2024 18:47	61703	ELIZ_T1	0	0	0	0	0	0	-1.79	-1.88	1	1	0	900	900	0
11/27/2024 18:47	58401	MORO_T1	0	0	0	0	0	0	-1	-1.02	1	1	0	600	600	0
11/27/2024 18:47	44801	EDAN_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
11/27/2024 18:47	57403	SPAN_T1	0	0	0	0	0	0	0.11	0.06	0	0	0	0	0	0
11/27/2024 18:47	59101	WALK_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
11/27/2024 18:47	57401	SPAN_T1	2	2	0	0.3	0.35	0.05	-1.71	-1.7	2	2	0	1200	1200	0
11/27/2024 18:47	60904	DONG_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/27/2024 18:47	58402	MORO_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
11/27/2024 18:48	42501	ALTA_T2	0	0	0	0	0	0	-0.06	-0.05	1	1	0	600	600	0
11/27/2024 18:48	13303	ORVI_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
11/27/2024 18:48	54602	SUMM_T2	2	13	11	0.1	0.32	0.22	0	0	0	0	0	0	0	0
11/27/2024 18:48	11301	EMMA_T1	0	0	0	0	0	0	-0.85	-0.83	0	0	0	0	0	0
11/27/2024 18:48	54601	SUMM_T2	7	11	4	0.43	0.4	-0.03	-4.18	-4.14	2	2	0	2100	2100	0
11/27/2024 18:48	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:48	40801	EXCH_T2	0	0	0	0	0	0	-0.47	-0.49	1	1	0	1200	1200	0
11/27/2024 18:49	64201	KINZ_T1	5	4	-1	0.24	0.1	-0.14	0	0	0	0	0	0	0	0
11/27/2024 18:49	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:49	64203	KINZ_T1	0	0	0	0	0	0	-0.44	-0.43	1	1	0	600	600	0
11/27/2024 18:49	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.13	0	0	0	0	0	0
11/27/2024 18:49	64204	KINZ_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
11/27/2024 18:49	53903	HALI_T2	2	2	0	1.05	1.3	0.25	-0.15	-0.15	0	0	0	0	0	0
11/27/2024 18:49	65802	RTWN_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
11/27/2024 18:49	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
11/27/2024 18:50	67201	TEHI_T1	0	0	0	0	0	0	0.7	0.6	0	0	0	0	0	0
11/27/2024 18:50	65503	MOJO_T2	30	130	100	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/27/2024 18:50	65502	MOJO_T2	236	289	53	0.19	0.29	0.1	-2.3	-2.26	0	0	0	0	0	0
11/27/2024 18:50	60801	BUCK_T1	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
11/27/2024 18:50	44301	BEAV_T2	4	7	3	1.33	0.65	-0.68	0	0	1	1	0	600	600	0
11/27/2024 18:50	67402	WAKE_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
11/27/2024 18:50	65603	QVIL_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
11/27/2024 18:50	58402	MORO_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
11/27/2024 18:50	63501	HEID_TBK1-2	0	1	1	0	0.3	0.3	0.48	0.46	0	0	0	0	0	0
11/27/2024 18:50	58401	MORO_T1	0	0	0	0	0	0	-1	-1.02	1	1	0	600	600	0
11/27/2024 18:51	67801	WLAN_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
11/27/2024 18:51	57401	SPAN_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
11/27/2024 18:51	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:51	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:51	26002	WDAM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/27/2024 18:51	57205	ROSS_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
11/27/2024 18:51	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:51	57203	ROSS_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
11/27/2024 18:51	64904	MILL_T1	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
11/27/2024 18:51	67802	WLAN_T1	20	16	-4	0.44	0.51	0.07	0	0	0	0	0	0	0	0
11/27/2024 18:51	57403	SPAN_T1	0	0	0	0	0	0	0.11	0.06	0	0	0	0	0	0
11/27/2024 18:51	67804	WLAN_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
11/27/2024 18:51	60501	NMAN_T2	13	18	5	0.14	0.16	0.02	0	0	0	0	0	0	0	0
11/27/2024 18:51	67805	WLAN_T1	317	344	27	0.23	0.26	0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/27/2024 18:52	60701	BREC_T1	0	0	0	0	0	0	-0.52	-0.51	1	1	0	600	600	0
11/27/2024 18:52	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 18:52	52403	GRPA_T2	3	3	0	0.83	0	-0.83	0	0	0	0	0	0	0	0
11/27/2024 18:52	52402	GRPA_T2	3	3	0	0.33	0.67	0.34	-0.91	-0.87	0	0	0	0	0	0
11/27/2024 18:52	61701	ELIZ_T1	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
11/27/2024 18:53	67802	WLAN_T1	20	16	-4	0.44	0.51	0.07	0	0	0	0	0	0	0	0
11/27/2024 18:53	55002	NEWP_T1	4	4	0	0.28	0.9	0.62	0	0	0	0	0	0	0	0
11/27/2024 18:53	67801	WLAN_T1	2	2	0	0.35	0.3	-0.05	-0.14	-0.25	0	0	0	0	0	0
11/27/2024 18:53	45502	DERR_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
11/27/2024 18:53	52403	GRPA_T2	3	3	0	0.83	0	-0.83	-0.1	-0.1	0	0	0	0	0	0
11/27/2024 18:53	67804	WLAN_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
11/27/2024 18:53	52402	GRPA_T2	3	3	0	0.33	0.67	0.34	0	0	0	0	0	0	0	0
11/27/2024 18:53	63302	GREE_T1	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
11/27/2024 18:53	55001	NEWP_T1	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
11/27/2024 18:53	44301	BEAV_T2	4	7	3	1.33	0.65	-0.68	0	0	0	0	0	0	0	0
11/27/2024 18:53	67805	WLAN_T1	317	344	27	0.23	0.26	0.03	0	0	0	0	0	0	0	0
11/27/2024 18:53	63305	GREE_T1	3	2	-1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/27/2024 18:54	44301	BEAV_T2	4	7	3	1.33	0.65	-0.68	0	0	0	0	0	0	0	0
11/27/2024 18:54	44302	BEAV_T2	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
11/27/2024 18:54	65503	MOJO_T2	30	130	100	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/27/2024 18:54	65502	MOJO_T2	236	289	53	0.19	0.29	0.1	0	0	0	0	0	0	0	0
11/27/2024 18:55	53903	HALI_T2	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
11/27/2024 18:55	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
11/27/2024 18:55	55105	WERT_T1	0	0	0	0	0	0	-0.57	-0.56	1	1	0	900	900	0
11/27/2024 18:56	10705	CATA_T2	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
11/27/2024 18:59	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
11/27/2024 19:05	40802	EXCH_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
11/27/2024 19:09	42501	ALTA_T2	0	0	0	0	0	0	-0.04	-0.06	1	1	0	600	600	0
11/27/2024 19:12	60101	COCA_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
11/27/2024 19:22	13101	NHAM_T1	0	1	1	0	0	0	-2.13	-2.24	2	2	0	2400	2400	0
11/27/2024 19:34	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/27/2024 20:00	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
11/27/2024 20:15	55508	HERS_T2	2	2	0	1.5	1.75	0.25	0	0	0	0	0	0	0	0
11/27/2024 20:23	46004	BERW_T2	1	0	-1	0.1	0	-0.1	-0.85	-0.84	0	0	0	0	0	0
11/27/2024 21:09	46803	HEPB_T2	0	0	0	0	0	0	0.36	0.32	0	0	0	0	0	0
11/27/2024 21:09	46801	HEPB_T2	2	2	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
11/28/2024 9:00	10705	CATA_T2	0	0	0	0	0	0	-0.91	-0.91	1	1	0	900	900	0
11/28/2024 9:00	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 9:00	54602	SUMM_T2	10	16	6	0.26	0.7	0.44	0	0	0	0	0	0	0	0
11/28/2024 9:00	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	-1.23	-1.26	1	1	0	600	600	0
11/28/2024 9:00	54601	SUMM_T2	5	9	4	0.42	0.41	-0.01	-4.15	-4.17	2	2	0	2100	2100	0
11/28/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
11/28/2024 9:07	67502	WEWI_T2	3	12	9	0.1	0.1	0	0	0	0	0	0	0	0	0
11/28/2024 9:07	67503	WEWI_T2	1	1	0	7.2	7.3	0.1	-0.02	-0.02	0	0	0	0	0	0
11/28/2024 9:25	21501	CEAV_T2	0	0	0	0	0	0	1.14	1.07	0	0	0	0	0	0
11/28/2024 10:04	65502	MOJO_T2	185	33	-152	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
11/28/2024 11:08	57401	SPAN_T1	0	0	0	0	0	0	-1.05	-1.05	1	1	0	600	600	0
11/28/2024 11:21	67001	STHI_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/28/2024 11:21	67002	STHI_T2	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
11/28/2024 11:22	67001	STHI_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/28/2024 11:22	67002	STHI_T2	0	0	0	0	0	0	1.3	1.28	0	0	0	0	0	0
11/28/2024 11:23	58003	WCAR_T1	1	1	0	0.4	0.9	0.5	0.59	0.6	0	0	0	0	0	0
11/28/2024 11:23	58001	WCAR_T1	4	4	0	0.3	0.78	0.48	0	0	0	0	0	0	0	0
11/28/2024 11:35	57201	ROSS_T1	0	0	0	0	0	0	-0.96	-1.03	0	0	0	0	0	0
11/28/2024 11:36	55002	NEWP_T1	2	5	3	0.3	0.36	0.06	-0.2	-0.22	0	0	0	0	0	0
11/28/2024 11:39	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 11:39	66501	SMAN_T2	2	3	1	0.1	0.17	0.07	0	0	0	0	0	0	0	0
11/28/2024 11:39	66505	SMAN_T2	2	2	0	0.15	0.5	0.35	0	0	0	0	0	0	0	0
11/28/2024 11:44	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 11:44	52401	GRPA_T2	3	1	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/28/2024 11:44	52403	GRPA_T2	7	8	1	0.89	0.36	-0.53	-0.17	-0.19	0	0	0	0	0	0
11/28/2024 11:44	52404	GRPA_T2	4	4	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
11/28/2024 11:48	64204	KINZ_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
11/28/2024 11:48	64201	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/28/2024 11:48	64203	KINZ_T1	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
11/28/2024 11:50	45701	LIND_T2	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
11/28/2024 11:50	45702	LIND_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
11/28/2024 11:50	57201	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 11:50	57205	ROSS_T1	0	1	1	0	0.8	0.8	0.16	0.16	0	0	0	0	0	0
11/28/2024 11:55	58002	WCAR_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
11/28/2024 11:55	58006	WCAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 11:55	57201	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 11:55	57205	ROSS_T1	0	1	1	0	0.8	0.8	0.16	0.13	0	0	0	0	0	0
11/28/2024 11:56	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 11:58	45801	HEGI_T1	0	0	0	0	0	0	-0.47	-0.48	1	1	0	900	900	0
11/28/2024 12:00	53902	HALI_T2	1	1	0	5	5.4	0.4	0	0	0	0	0	0	0	0
11/28/2024 12:00	53903	HALI_T2	2	2	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
11/28/2024 12:00	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/28/2024 12:03	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/28/2024 12:03	53902	HALI_T2	1	1	0	5	5.4	0.4	0	0	0	0	0	0	0	0
11/28/2024 12:03	53903	HALI_T2	2	2	0	1.3	1.6	0.3	-0.1	-0.12	0	0	0	0	0	0
11/28/2024 12:06	58202	NEWV_T1	8	8	0	0.6	0.35	-0.25	-0.27	-0.29	0	0	0	0	0	0
11/28/2024 12:07	58202	NEWV_T1	8	8	0	0.6	0.35	-0.25	-0.14	-0.15	0	0	0	0	0	0
11/28/2024 12:08	58006	WCAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 12:09	43801	SWIL_T1	15	24	9	0.57	0.47	-0.1	0	0	0	0	0	0	0	0
11/28/2024 12:09	43802	SWIL_T1	0	0	0	0	0	0	-0.14	-0.15	1	1	0	600	600	0
11/28/2024 12:13	47203	FAXO_T2	1	1	0	0.5	0.1	-0.4	-1.72	-1.7	1	1	0	1200	1200	0
11/28/2024 12:16	47802	MOCA_T2	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
11/28/2024 12:17	55503	HERS_T1	0	0	0	0	0	0	-1.73	-1.73	1	1	0	1200	1200	0
11/28/2024 12:17	55507	HERS_T1	25	34	9	0.23	0.3	0.07	0	0	0	0	0	0	0	0
11/28/2024 12:17	55501	HERS_T1	52	52	0	0.82	0.8	-0.02	0	0	0	0	0	0	0	0
11/28/2024 12:21	57201	ROSS_T1	1	15	14	0.1	0.2	0.1	-1.1	-1.11	0	0	0	0	0	0
11/28/2024 12:21	57205	ROSS_T1	1	1	0	0.8	0.1	-0.7	0.13	0.13	0	0	0	0	0	0
11/28/2024 12:22	57205	ROSS_T1	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
11/28/2024 12:22	57203	ROSS_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
11/28/2024 12:22	57201	ROSS_T1	1	15	14	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/28/2024 12:23	57205	ROSS_T1	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
11/28/2024 12:23	57203	ROSS_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
11/28/2024 12:23	57201	ROSS_T1	1	15	14	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/28/2024 12:24	54602	SUMM_T2	5	16	11	0.1	0.47	0.37	0	0	0	0	0	0	0	0
11/28/2024 12:24	54601	SUMM_T2	3	9	6	0.33	0.28	-0.05	-4.1	-4.18	2	2	0	2100	2100	0
11/28/2024 12:25	54601	SUMM_T2	3	9	6	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
11/28/2024 12:25	54602	SUMM_T2	5	16	11	0.1	0.47	0.37	0	0	0	0	0	0	0	0
11/28/2024 12:27	60904	DONG_T2	4	5	1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
11/28/2024 12:27	60901	DONG_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
11/28/2024 12:27	60903	DONG_T2	32	1	-31	0.13	0.4	0.27	0	0	0	0	0	0	0	0
11/28/2024 12:27	60902	DONG_T2	4	13	9	0.2	0.22	0.02	0.6	0.55	0	0	0	0	0	0
11/28/2024 12:28	60903	DONG_T2	32	1	-31	0.13	0.4	0.27	0	0	0	0	0	0	0	0
11/28/2024 12:28	60904	DONG_T2	4	5	1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
11/28/2024 12:28	60901	DONG_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
11/28/2024 12:28	60902	DONG_T2	4	13	9	0.2	0.22	0.02	0	0	0	0	0	0	0	0
11/28/2024 12:35	64701	LITI_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
11/28/2024 12:35	45702	LIND_T2	1	1	0	1.1	0.8	-0.3	-0.47	-0.51	0	0	0	0	0	0
11/28/2024 12:37	65202	PRIN_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/28/2024 12:37	65205	PRIN_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
11/28/2024 12:40	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 12:43	60901	DONG_T2	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
11/28/2024 12:43	60904	DONG_T2	2	12	10	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/28/2024 12:43	60902	DONG_T2	6	14	8	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
11/28/2024 12:43	60903	DONG_T2	1	2	1	0.3	0.3	0	0.67	0.64	0	0	0	0	0	0
11/28/2024 12:44	60901	DONG_T2	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
11/28/2024 12:44	60904	DONG_T2	2	12	10	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/28/2024 12:44	60902	DONG_T2	6	14	8	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
11/28/2024 12:44	60903	DONG_T2	1	2	1	0.3	0.3	0	0.67	0.64	0	0	0	0	0	0
11/28/2024 12:45	63804	HEMP_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
11/28/2024 12:45	63802	HEMP_T1	0	0	0	0	0	0	0.35	0.26	0	0	0	0	0	0
11/28/2024 12:46	45702	LIND_T2	1	1	0	0.8	0.8	0	-1.01	-1.05	0	0	0	0	0	0
11/28/2024 12:46	64403	LAND_T1	0	0	0	0	0	0	-2.01	-2.03	1	1	0	900	900	0
11/28/2024 12:47	22901	HARW_T1	9	6	-3	1.19	0.95	-0.24	0	0	0	0	0	0	0	0
11/28/2024 12:47	22905	HARW_T1	55	81	26	1.9	1	-0.9	-0.28	-0.26	0	0	0	0	0	0
11/28/2024 12:47	22903	HARW_T1	32	38	6	1.83	2.12	0.29	0	0	0	0	0	0	0	0
11/28/2024 12:52	14601	SWHI_T1	0	0	0	0	0	0	-0.81	-0.79	0	0	0	0	0	0
11/28/2024 12:52	16603	PONO_T2	0	0	0	0	0	0	0.77	0.76	0	0	0	0	0	0
11/28/2024 12:54	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 13:00	54502	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/28/2024 13:00	63501	HEID_TBK1-2	1	2	1	0.8	1.1	0.3	0.6	0.61	0	0	0	0	0	0
11/28/2024 13:00	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/28/2024 13:00	20603	GRWO_T2	5	13	8	0.16	0.21	0.05	0	0	0	0	0	0	0	0
11/28/2024 13:00	20601	GRWO_T2	0	19	19	0	0.19	0.19	-0.27	-0.29	0	0	0	0	0	0
11/28/2024 13:00	54504	ENOL_T2	0	0	0	0	0	0	-1.06	-1.07	1	1	0	600	600	0
11/28/2024 13:01	40801	EXCH_T2	2	3	1	0.1	0.27	0.17	0	0	0	0	0	0	0	0
11/28/2024 13:01	40802	EXCH_T2	0	1	1	0	0.1	0.1	-0.29	-0.3	0	0	0	0	0	0
11/28/2024 13:02	12001	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 13:02	12007	HATF_T1	0	0	0	0	0	0	1.22	1.15	1	1	0	1200	1200	0
11/28/2024 13:02	63501	HEID_TBK1-2	1	2	1	0.8	1.1	0.3	0.6	0.61	0	0	0	0	0	0
11/28/2024 13:02	12005	HATF_T1	3	3	0	0.47	0.57	0.1	0	0	0	0	0	0	0	0
11/28/2024 13:03	63501	HEID_TBK1-2	1	2	1	0.8	1.1	0.3	0.6	0.61	0	0	0	0	0	0
11/28/2024 13:09	44501	HAMI_T2	44	0	-44	0.21	0	-0.21	0	0	0	0	0	0	0	0
11/28/2024 13:09	44502	HAMI_T2	1	1	0	3.5	3	-0.5	0	0	0	0	0	0	0	0
11/28/2024 13:09	44503	HAMI_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
11/28/2024 13:12	61703	ELIZ_T1	0	0	0	0	0	0	-1.83	-1.86	1	1	0	900	900	0
11/28/2024 13:12	62602	ENGL_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
11/28/2024 13:12	40802	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 13:12	58802	COCO_T2	0	0	0	0	0	0	-0.59	-0.46	1	1	0	1200	1200	0
11/28/2024 13:12	62605	ENGL_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/28/2024 13:12	40801	EXCH_T2	2	3	1	0.1	0.27	0.17	-0.48	-0.48	1	1	0	1200	1200	0
11/28/2024 13:12	61701	ELIZ_T1	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
11/28/2024 13:12	62606	ENGL_T1	21	29	8	0.1	0.31	0.21	0	0	0	0	0	0	0	0
11/28/2024 13:17	59302	MCAL_T1	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
11/28/2024 13:17	64404	LAND_T2	13	38	25	0.12	0.14	0.02	0	0	0	0	0	0	0	0
11/28/2024 13:17	64402	LAND_T2	0	0	0	0	0	0	-0.62	-0.63	1	1	0	600	600	0
11/28/2024 13:17	59301	MCAL_T1	23	17	-6	0.3	0.39	0.09	-1.34	-1.32	0	0	0	0	0	0
11/28/2024 13:17	20601	GRWO_T2	2	19	17	0.1	0.19	0.09	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/28/2024 13:17	20603	GRWO_T2	3	13	10	0.17	0.21	0.04	-0.55	-0.59	1	1	0	900	900	0
11/28/2024 13:18	12005	HATF_T1	3	3	0	0.47	0.57	0.1	0	0	0	0	0	0	0	0
11/28/2024 13:18	12006	HATF_T1	0	0	0	0	0	0	0.04	0.1	0	0	0	0	0	0
11/28/2024 13:18	12001	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 13:18	12004	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 13:22	59402	RELD_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/28/2024 13:23	67401	WAKE_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
11/28/2024 13:23	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.26	0	0	0	0	0	0
11/28/2024 13:27	62606	ENGL_T1	0	32	32	0	0.1	0.1	-1.21	-1.21	1	1	0	900	900	0
11/28/2024 13:27	61305	EARL_T1	0	0	0	0	0	0	-0.07	-0.1	1	1	0	600	600	0
11/28/2024 13:27	62605	ENGL_T1	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
11/28/2024 13:28	10801	CHHI_T1	0	13	13	0	0.14	0.14	-1.49	-1.53	2	2	0	1500	1500	0
11/28/2024 13:30	64302	LINC_T2	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
11/28/2024 13:30	40802	EXCH_T2	1	9	8	0.1	0.11	0.01	-0.3	-0.29	0	0	0	0	0	0
11/28/2024 13:30	40801	EXCH_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/28/2024 13:32	64701	LITI_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
11/28/2024 13:32	64305	LINC_T1	1	2	1	0.1	0.15	0.05	-0.56	-0.57	0	0	0	0	0	0
11/28/2024 13:33	65001	NEFF_T2	3	9	6	0.1	0.13	0.03	-0.26	-0.26	0	0	0	0	0	0
11/28/2024 13:33	65003	NEFF_T2	3	2	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/28/2024 13:34	58302	NOTT_T1	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
11/28/2024 13:34	65001	NEFF_T2	3	9	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/28/2024 13:34	65003	NEFF_T2	3	2	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/28/2024 13:34	65004	NEFF_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
11/28/2024 13:34	64701	LITI_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
11/28/2024 13:35	65001	NEFF_T2	3	9	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/28/2024 13:35	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 13:35	65207	PRIN_T4	14	17	3	0.19	0.49	0.3	0	0	0	0	0	0	0	0
11/28/2024 13:35	65003	NEFF_T2	3	2	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/28/2024 13:36	65003	NEFF_T2	3	2	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/28/2024 13:36	65001	NEFF_T2	3	9	6	0.1	0.13	0.03	-0.13	-0.09	0	0	0	0	0	0
11/28/2024 13:37	45303	WBER_T2	9	9	0	1.72	1.73	0.01	0	0	0	0	0	0	0	0
11/28/2024 13:37	65003	NEFF_T2	3	2	-1	0.1	0.2	0.1	-1.78	-1.71	2	2	0	1800	1800	0
11/28/2024 13:37	45301	WBER_T2	13	22	9	0.18	0.21	0.03	0	0	0	0	0	0	0	0
11/28/2024 13:37	45302	WBER_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
11/28/2024 13:37	59202	THOM_T1	323	397	74	0.3	0.36	0.06	0	0	0	0	0	0	0	0
11/28/2024 13:37	59201	THOM_T1	34	37	3	0.39	0.5	0.11	0	0	0	0	0	0	0	0
11/28/2024 13:37	65001	NEFF_T2	3	9	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/28/2024 13:38	59201	THOM_T1	34	37	3	0.39	0.5	0.11	0	0	0	0	0	0	0	0
11/28/2024 13:38	59202	THOM_T1	323	397	74	0.3	0.36	0.06	0	0	0	0	0	0	0	0
11/28/2024 13:40	67401	WAKE_T2	1	7	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/28/2024 13:40	67402	WAKE_T2	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
11/28/2024 13:42	57205	ROSS_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/28/2024 13:42	57203	ROSS_T1	0	0	0	0	0	0	-0.3	0.38	0	0	0	0	0	0
11/28/2024 13:42	57201	ROSS_T1	21	33	12	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
11/28/2024 13:42	10801	CHHI_T1	0	13	13	0	0.14	0.14	-1.53	-1.59	2	2	0	1500	1500	0
11/28/2024 13:43	22905	HARW_T1	58	67	9	1.15	1.21	0.06	-0.27	-0.29	0	0	0	0	0	0
11/28/2024 13:43	22903	HARW_T1	25	27	2	4.16	1.66	-2.5	0	0	0	0	0	0	0	0
11/28/2024 13:43	22901	HARW_T1	9	11	2	0.79	0.89	0.1	0	0	0	0	0	0	0	0
11/28/2024 13:48	58401	MORO_T1	0	0	0	0	0	0	-1.12	-1.15	1	1	0	600	600	0
11/28/2024 13:51	58401	MORO_T1	0	0	0	0	0	0	-1.12	-1.15	1	1	0	600	600	0
11/28/2024 13:52	66202	SISP_T2	0	0	0	0	0	0	-0.89	-0.87	0	0	0	0	0	0
11/28/2024 13:53	58402	MORO_T1	0	0	0	0	0	0	0.16	0.16	1	1	0	900	900	0
11/28/2024 13:55	59201	THOM_T1	35	48	13	0.47	0.53	0.06	0	0	0	0	0	0	0	0
11/28/2024 13:55	59202	THOM_T1	369	387	18	0.33	0.45	0.12	0	0	0	0	0	0	0	0
11/28/2024 13:56	14204	EALL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 13:56	46204	DANV_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
11/28/2024 13:56	46206	DANV_T2	0	0	0	0	0	0	-0.62	-0.67	1	1	0	900	900	0
11/28/2024 14:00	11904	ETEX_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
11/28/2024 14:02	67402	WAKE_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
11/28/2024 14:02	67401	WAKE_T2	7	16	9	0.13	0.13	0	0	0	0	0	0	0	0	0
11/28/2024 14:04	59003	MIFF_T1	1	1	0	0.7	0.9	0.2	0.19	0.2	0	0	0	0	0	0
11/28/2024 14:04	59002	MIFF_T1	6	6	0	0.77	0.85	0.08	0	0	0	0	0	0	0	0
11/28/2024 14:05	59003	MIFF_T1	1	1	0	0.7	0.9	0.2	0.19	0.2	0	0	0	0	0	0
11/28/2024 14:05	59002	MIFF_T1	6	6	0	0.77	0.85	0.08	0	0	0	0	0	0	0	0
11/28/2024 14:06	59003	MIFF_T1	1	1	0	0.7	0.9	0.2	0.19	0.2	0	0	0	0	0	0
11/28/2024 14:06	59002	MIFF_T1	6	6	0	0.77	0.85	0.08	0	0	0	0	0	0	0	0
11/28/2024 14:06	64304	LINC_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
11/28/2024 14:08	43302	WATS_T2	4	4	0	0.88	0.93	0.05	0	0	0	0	0	0	0	0
11/28/2024 14:08	43304	WATS_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
11/28/2024 14:08	14204	EALL_T2	0	1	1	0	0	0	0.05	0	0	0	0	0	0	0
11/28/2024 14:08	67106	SPRI_T2	0	0	0	0	0	0	-2.66	-2.62	2	2	0	1800	1800	0
11/28/2024 14:10	54601	SUMM_T2	2	7	5	0.2	0.31	0.11	0	0	0	0	0	0	0	0
11/28/2024 14:10	54603	SUMM_T2	0	0	0	0	0	0	-0.53	-0.55	1	1	0	900	900	0
11/28/2024 14:10	43302	WATS_T2	4	4	0	0.88	0.93	0.05	0	0	0	0	0	0	0	0
11/28/2024 14:10	43301	WATS_T2	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
11/28/2024 14:11	58001	WCAR_T1	4	6	2	1.63	0.98	-0.65	0	0	0	0	0	0	0	0
11/28/2024 14:11	44301	BEAV_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/28/2024 14:11	58003	WCAR_T1	4	16	12	0.6	0.28	-0.32	1.26	1.24	0	0	0	0	0	0
11/28/2024 14:12	58001	WCAR_T1	4	6	2	1.63	0.98	-0.65	0	0	0	0	0	0	0	0
11/28/2024 14:12	58003	WCAR_T1	4	16	12	0.6	0.28	-0.32	0.63	0.62	0	0	0	0	0	0
11/28/2024 14:12	54603	SUMM_T2	0	0	0	0	0	0	-0.53	-0.55	1	1	0	900	900	0
11/28/2024 14:12	54601	SUMM_T2	2	7	5	0.2	0.31	0.11	0	0	0	0	0	0	0	0
11/28/2024 14:14	11507	FREE_T2	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
11/28/2024 14:14	17401	FOHI_T1	0	0	0	0	0	0	-1.05	-1.07	0	0	0	0	0	0
11/28/2024 14:15	44903	SCOT_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
11/28/2024 14:16	43304	WATS_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
11/28/2024 14:16	17401	FOHI_T1	0	0	0	0	0	0	-1.05	-1.07	0	0	0	0	0	0
11/28/2024 14:16	43301	WATS_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
11/28/2024 14:16	43302	WATS_T2	4	4	0	0.55	1.08	0.53	0	0	0	0	0	0	0	0
11/28/2024 14:17	58401	MORO_T1	0	0	0	0	0	0	-1.13	-1.15	1	1	0	600	600	0
11/28/2024 14:18	63601	LETO_T1	6	7	1	1.15	1.09	-0.06	0	0	0	0	0	0	0	0
11/28/2024 14:18	63602	LETO_T1	0	1	1	0	0.1	0.1	-0.55	-0.5	0	0	0	0	0	0
11/28/2024 14:19	64703	LITI_T2	32	48	16	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
11/28/2024 14:19	64702	LITI_T2	95	161	66	0.27	0.19	-0.08	-0.96	-0.96	0	0	0	0	0	0
11/28/2024 14:21	49803	UNIV_T1	1	1	0	4.6	4.8	0.2	0	0	0	0	0	0	0	0
11/28/2024 14:21	49804	UNIV_T1	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
11/28/2024 14:22	49803	UNIV_T1	1	1	0	4.6	4.8	0.2	-1.3	-1.29	0	0	0	0	0	0
11/28/2024 14:23	58401	MORO_T1	0	0	0	0	0	0	-1.15	-1.16	1	1	0	600	600	0
11/28/2024 14:26	43506	WWIL_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
11/28/2024 14:26	43504	WWIL_T1	13	15	2	0.28	0.35	0.07	0.57	0.57	0	0	0	0	0	0
11/28/2024 14:26	43505	WWIL_T1	1	1	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
11/28/2024 14:34	65003	NEFF_T2	4	4	0	0.23	0.28	0.05	0	0	0	0	0	0	0	0
11/28/2024 14:34	65001	NEFF_T2	49	86	37	0.13	0.14	0.01	-0.12	-0.06	0	0	0	0	0	0
11/28/2024 14:40	16302	ALPA_T2	0	0	0	0	0	0	0.46	0.5	0	0	0	0	0	0
11/28/2024 14:41	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/28/2024 14:41	54503	ENOL_T2	0	0	0	0	0	0	-0.45	-0.45	1	1	0	600	600	0
11/28/2024 14:41	54505	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
11/28/2024 14:44	14201	EALL_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
11/28/2024 14:45	53901	HALI_T2	1	1	0	0.7	0.8	0.1	-1.01	-1.01	0	0	0	0	0	0
11/28/2024 14:45	53903	HALI_T2	2	15	13	1.5	0.4	-1.1	0	0	0	0	0	0	0	0
11/28/2024 14:45	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
11/28/2024 14:46	53901	HALI_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/28/2024 14:46	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
11/28/2024 14:46	53903	HALI_T2	2	15	13	1.5	0.4	-1.1	0	0	0	0	0	0	0	0
11/28/2024 14:47	67303	WYOM_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
11/28/2024 14:47	53903	HALI_T2	2	15	13	1.5	0.4	-1.1	-0.15	-0.14	0	0	0	0	0	0
11/28/2024 14:47	64305	LINC_T1	2	2	0	0.2	0.4	0.2	-0.54	-0.54	0	0	0	0	0	0
11/28/2024 14:47	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
11/28/2024 14:47	53901	HALI_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/28/2024 14:49	65202	PRIN_T1	1	10	9	0.4	0.21	-0.19	0	0	0	0	0	0	0	0
11/28/2024 14:49	65203	PRIN_T1	0	39	39	0	0.13	0.13	0	0	1	1	0	900	900	0
11/28/2024 14:49	65205	PRIN_T1	1	8	7	1.8	0.38	-1.42	0	0	0	0	0	0	0	0
11/28/2024 14:52	54701	NEBL_T1	4	4	0	0.68	0.95	0.27	0	0	1	1	0	600	600	0
11/28/2024 14:55	46003	BERW_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 14:55	46004	BERW_T2	1	4	3	0.4	0.13	-0.27	0	0	0	0	0	0	0	0
11/28/2024 14:55	46002	BERW_T2	0	6	6	0	0.16	0.16	-0.52	-0.55	0	0	0	0	0	0
11/28/2024 14:57	46003	BERW_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 14:57	46002	BERW_T2	0	6	6	0	0.16	0.16	0	0	0	0	0	0	0	0
11/28/2024 14:57	46004	BERW_T2	1	4	3	0.4	0.13	-0.27	-0.81	-0.82	0	0	0	0	0	0
11/28/2024 14:59	46004	BERW_T2	1	4	3	0.4	0.13	-0.27	0	0	0	0	0	0	0	0
11/28/2024 14:59	46003	BERW_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 14:59	46002	BERW_T2	0	6	6	0	0.16	0.16	-0.52	-0.55	0	0	0	0	0	0
11/28/2024 15:03	52403	GRPA_T2	5	8	3	0.4	0.43	0.03	0	0	0	0	0	0	0	0
11/28/2024 15:03	52404	GRPA_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/28/2024 15:03	52402	GRPA_T2	5	7	2	0.9	0.66	-0.24	-0.78	-0.75	0	0	0	0	0	0
11/28/2024 15:03	52401	GRPA_T2	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/28/2024 15:04	64305	LINC_T1	2	2	0	0.25	0.4	0.15	-0.54	-0.5	0	0	0	0	0	0
11/28/2024 15:06	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 15:07	65004	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 15:07	65005	NEFF_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
11/28/2024 15:07	65003	NEFF_T2	4	21	17	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
11/28/2024 15:07	65001	NEFF_T2	55	151	96	0.13	0.17	0.04	0	0	0	0	0	0	0	0
11/28/2024 15:09	29201	APPE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 15:10	67401	WAKE_T2	11	42	31	0.15	0.13	-0.02	-0.89	-0.92	0	0	0	0	0	0
11/28/2024 15:10	67402	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 15:11	57203	ROSS_T1	0	0	0	0	0	0	0.35	0.39	0	0	0	0	0	0
11/28/2024 15:11	57201	ROSS_T1	22	47	25	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
11/28/2024 15:14	57201	ROSS_T1	22	47	25	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
11/28/2024 15:14	57205	ROSS_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
11/28/2024 15:45	40601	PIGR_T1	152	119	-33	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
11/28/2024 15:45	40602	PIGR_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
11/28/2024 16:29	49803	UNIV_T1	1	1	0	5.3	5	-0.3	-1.31	-1.28	0	0	0	0	0	0
11/28/2024 17:29	43302	WATS_T2	4	4	0	0.55	0.38	-0.17	0	0	0	0	0	0	0	0
11/28/2024 17:29	43304	WATS_T2	0	2	2	0	0	0	-0.24	-0.27	0	0	0	0	0	0
11/28/2024 17:57	44503	HAMI_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
11/28/2024 17:57	44502	HAMI_T2	1	1	0	3.1	3	-0.1	0	0	0	0	0	0	0	0
11/28/2024 18:01	22901	HARW_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 18:01	22905	HARW_T1	30	23	-7	0.88	0.68	-0.2	-0.32	-0.34	0	0	0	0	0	0
11/28/2024 18:01	22903	HARW_T1	1	21	20	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/28/2024 18:03	40802	EXCH_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
11/28/2024 18:04	22901	HARW_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 18:04	22905	HARW_T1	30	23	-7	0.88	0.68	-0.2	-0.32	-0.34	0	0	0	0	0	0
11/28/2024 18:04	22903	HARW_T1	1	21	20	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/28/2024 18:14	16302	ALPA_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
11/28/2024 18:15	20601	GRWO_T2	1	3	2	0.1	0.1	0	-0.32	-0.32	0	0	0	0	0	0
11/28/2024 18:16	40802	EXCH_T2	0	0	0	0	0	0	-0.32	-0.3	0	0	0	0	0	0
11/28/2024 18:17	40801	EXCH_T2	0	0	0	0	0	0	0.78	0.75	0	0	0	0	0	0
11/28/2024 18:17	58802	COCO_T2	0	0	0	0	0	0	-0.55	-0.58	1	1	0	1200	1200	0
11/28/2024 18:19	67106	SPRI_T2	0	0	0	0	0	0	-1.33	-1.33	1	1	0	900	900	0
11/28/2024 18:20	14201	EALL_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
11/28/2024 18:20	47202	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 18:20	47203	FAXO_T2	1	1	0	1.1	1	-0.1	-0.36	-0.38	0	0	0	0	0	0
11/28/2024 18:20	10801	CHHI_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
11/28/2024 18:20	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 18:22	67002	STHI_T2	95	81	-14	0.21	0.2	-0.01	1.8	1.77	0	0	0	0	0	0
11/28/2024 18:22	14601	SWHI_T1	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
11/28/2024 18:22	17401	FOHI_T1	0	0	0	0	0	0	-1.09	-1.11	0	0	0	0	0	0
11/28/2024 18:22	67001	STHI_T2	399	328	-71	0.29	0.25	-0.04	0	0	0	0	0	0	0	0
11/28/2024 18:23	43504	WWIL_T1	11	9	-2	0.35	0.34	-0.01	0.57	0.55	0	0	0	0	0	0
11/28/2024 18:23	45302	WBER_T2	13	4	-9	0.15	0.15	0	0.5	0.48	0	0	0	0	0	0
11/28/2024 18:23	45303	WBER_T2	25	17	-8	0.86	1.07	0.21	0	0	0	0	0	0	0	0
11/28/2024 18:23	43506	WWIL_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
11/28/2024 18:23	43505	WWIL_T1	1	1	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
11/28/2024 18:23	45301	WBER_T2	151	117	-34	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
11/28/2024 18:24	66202	SISP_T2	0	0	0	0	0	0	-0.89	-0.91	0	0	0	0	0	0
11/28/2024 18:24	65001	NEFF_T2	81	36	-45	0.16	0.13	-0.03	-0.12	-0.11	0	0	0	0	0	0
11/28/2024 18:24	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 18:24	65003	NEFF_T2	28	7	-21	0.18	0.23	0.05	0	0	0	0	0	0	0	0
11/28/2024 18:25	63501	HEID_TBK1-2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
11/28/2024 18:26	14204	EALL_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
11/28/2024 18:26	64701	LITI_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
11/28/2024 18:26	42701	AUGU_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
11/28/2024 18:26	64402	LAND_T2	0	0	0	0	0	0	-0.59	-0.59	1	1	0	600	600	0
11/28/2024 18:26	11507	FREE_T2	7	0	-7	0.23	0	-0.23	0.23	0.25	0	0	0	0	0	0
11/28/2024 18:26	11503	FREE_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
11/28/2024 18:26	17401	FOHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 18:27	65004	NEFF_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
11/28/2024 18:27	59301	MCAL_T1	25	7	-18	0.23	0.57	0.34	-1.28	-1.31	0	0	0	0	0	0
11/28/2024 18:27	65001	NEFF_T2	81	36	-45	0.16	0.13	-0.03	-0.23	-0.22	0	0	0	0	0	0
11/28/2024 18:27	59302	MCAL_T1	2	2	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
11/28/2024 18:27	63501	HEID_TBK1-2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
11/28/2024 18:27	65003	NEFF_T2	28	7	-21	0.18	0.23	0.05	0	0	0	0	0	0	0	0
11/28/2024 18:27	44903	SCOT_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
11/28/2024 18:28	59002	MIFF_T1	3	6	3	0.37	0.47	0.1	0	0	0	0	0	0	0	0
11/28/2024 18:28	67001	STHI_T2	399	328	-71	0.29	0.25	-0.04	0	0	0	0	0	0	0	0
11/28/2024 18:28	65207	PRIN_T4	226	303	77	0.26	0.21	-0.05	0	0	0	0	0	0	0	0
11/28/2024 18:28	65201	PRIN_T4	10	1	-9	0.22	0.1	-0.12	0	0	0	0	0	0	0	0
11/28/2024 18:28	59003	MIFF_T1	1	1	0	0.6	0.7	0.1	0.23	0.22	0	0	0	0	0	0
11/28/2024 18:28	67002	STHI_T2	95	81	-14	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
11/28/2024 18:28	65206	PRIN_T4	87	73	-14	0.19	0.17	-0.02	0	0	0	0	0	0	0	0
11/28/2024 18:29	46206	DANV_T2	0	0	0	0	0	0	-0.63	-0.63	1	1	0	900	900	0
11/28/2024 18:29	64701	LITI_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
11/28/2024 18:29	63501	HEID_TBK1-2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
11/28/2024 18:29	46204	DANV_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/28/2024 18:29	64302	LINC_T2	0	0	0	0	0	0	0.79	0.83	0	0	0	0	0	0
11/28/2024 18:30	67303	WYOM_T2	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
11/28/2024 18:30	63804	HEMP_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
11/28/2024 18:30	63802	HEMP_T1	0	0	0	0	0	0	0.05	0.07	0	0	0	0	0	0
11/28/2024 18:31	64702	LITI_T2	146	193	47	0.16	0.18	0.02	-1	-0.98	0	0	0	0	0	0
11/28/2024 18:31	46003	BERW_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/28/2024 18:31	46004	BERW_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/28/2024 18:31	20601	GRWO_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
11/28/2024 18:31	20603	GRWO_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
11/28/2024 18:31	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
11/28/2024 18:31	65205	PRIN_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
11/28/2024 18:31	65202	PRIN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/28/2024 18:31	64703	LITI_T2	45	66	21	0.17	0.18	0.01	0	0	0	0	0	0	0	0
11/28/2024 18:31	46002	BERW_T2	0	2	2	0	0.1	0.1	-0.53	-0.53	0	0	0	0	0	0
11/28/2024 18:32	59002	MIFF_T1	6	6	0	0.33	0.85	0.52	0	0	0	0	0	0	0	0
11/28/2024 18:32	11904	ETEX_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
11/28/2024 18:32	10801	CHHI_T1	0	0	0	0	0	0	-0.95	-0.96	1	1	0	900	900	0
11/28/2024 18:32	59003	MIFF_T1	1	1	0	0.6	0.7	0.1	0.23	0.22	0	0	0	0	0	0
11/28/2024 18:32	59201	THOM_T1	24	24	0	0.68	0.73	0.05	0	0	0	0	0	0	0	0
11/28/2024 18:32	59202	THOM_T1	329	346	17	0.43	0.48	0.05	0	0	0	0	0	0	0	0
11/28/2024 18:33	40601	PIGR_T1	7	33	26	0.14	0.14	0	0	0	0	0	0	0	0	0
11/28/2024 18:33	40602	PIGR_T1	1	1	0	1.9	1.4	-0.5	0	0	0	0	0	0	0	0
11/28/2024 18:33	64305	LINC_T1	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
11/28/2024 18:33	29201	APPE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 18:34	43301	WATS_T2	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
11/28/2024 18:34	43302	WATS_T2	4	4	0	0.28	0.7	0.42	0	0	0	0	0	0	0	0
11/28/2024 18:34	49803	UNIV_T1	1	1	0	5	5.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 18:34	65003	NEFF_T2	7	4	-3	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
11/28/2024 18:34	65205	PRIN_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
11/28/2024 18:34	60903	DONG_T2	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
11/28/2024 18:34	58202	NEWV_T1	0	0	0	0	0	0	-0.62	-0.58	0	0	0	0	0	0
11/28/2024 18:34	49804	UNIV_T1	0	0	0	0	0	0	0.5	0.41	0	0	0	0	0	0
11/28/2024 18:34	64304	LINC_T2	0	0	0	0	0	0	-0.51	-0.48	0	0	0	0	0	0
11/28/2024 18:34	65202	PRIN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/28/2024 18:34	67106	SPRI_T2	0	0	0	0	0	0	-1.33	-1.33	1	1	0	900	900	0
11/28/2024 18:34	65001	NEFF_T2	36	4	-32	0.13	0.13	0	0	0	0	0	0	0	0	0
11/28/2024 18:35	63601	LETO_T1	7	7	0	0.8	0.87	0.07	0	0	0	0	0	0	0	0
11/28/2024 18:35	16603	PONO_T2	0	0	0	0	0	0	0.72	0.68	0	0	0	0	0	0
11/28/2024 18:35	63602	LETO_T1	0	0	0	0	0	0	-0.52	-0.57	0	0	0	0	0	0
11/28/2024 18:35	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 18:36	58006	WCAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 18:36	21501	CEAV_T2	0	0	0	0	0	0	1.06	1.07	0	0	0	0	0	0
11/28/2024 18:36	52404	GRPA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/28/2024 18:36	52402	GRPA_T2	3	3	0	0.87	0.8	-0.07	0	0	0	0	0	0	0	0
11/28/2024 18:36	52403	GRPA_T2	1	1	0	0.1	0.5	0.4	-0.14	-0.15	0	0	0	0	0	0
11/28/2024 18:37	61701	ELIZ_T1	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0	0
11/28/2024 18:37	55501	HERS_T1	12	52	40	0.1	0.25	0.15	0	0	0	0	0	0	0	0
11/28/2024 18:37	55507	HERS_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 18:37	61703	ELIZ_T1	0	0	0	0	0	0	-1.85	-1.87	1	1	0	900	900	0
11/28/2024 18:37	62606	ENGL_T1	0	0	0	0	0	0	-1.32	-1.33	1	1	0	900	900	0
11/28/2024 18:37	55503	HERS_T1	0	0	0	0	0	0	-1.73	-1.73	0	0	0	0	0	0
11/28/2024 18:38	12006	HATF_T1	0	0	0	0	0	0	0.04	-0.02	0	0	0	0	0	0
11/28/2024 18:38	58001	WCAR_T1	4	4	0	0.95	1	0.05	0	0	0	0	0	0	0	0
11/28/2024 18:38	12005	HATF_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/28/2024 18:38	58003	WCAR_T1	1	1	0	1.8	1.8	0	0.47	0.47	0	0	0	0	0	0
11/28/2024 18:38	54701	NEBL_T1	4	8	4	0.48	0.4	-0.08	0	0	1	1	0	600	600	0
11/28/2024 18:39	45701	LIND_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
11/28/2024 18:39	62602	ENGL_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
11/28/2024 18:39	58003	WCAR_T1	1	1	0	1.8	1.8	0	0.47	0.47	0	0	0	0	0	0
11/28/2024 18:39	58001	WCAR_T1	4	4	0	0.95	1	0.05	0	0	0	0	0	0	0	0
11/28/2024 18:39	57403	SPAN_T1	15	21	6	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
11/28/2024 18:39	64701	LITI_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
11/28/2024 18:39	64305	LINC_T1	0	0	0	0	0	0	-0.46	-0.52	0	0	0	0	0	0
11/28/2024 18:39	57401	SPAN_T1	2	2	0	0.95	0.95	0	-0.95	-0.87	1	1	0	600	600	0
11/28/2024 18:39	45702	LIND_T2	2	6	4	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
11/28/2024 18:41	65502	MOJO_T2	245	292	47	0.16	0.22	0.06	0	0	0	0	0	0	0	0
11/28/2024 18:41	65503	MOJO_T2	7	57	50	0.11	0.11	0	0	0	0	0	0	0	0	0
11/28/2024 18:41	66505	SMAN_T2	3	3	0	0.9	1.43	0.53	0	0	0	0	0	0	0	0
11/28/2024 18:41	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 18:42	65001	NEFF_T2	36	4	-32	0.13	0.13	0	0	0	0	0	0	0	0	0
11/28/2024 18:42	59201	THOM_T1	24	24	0	0.68	0.73	0.05	0	0	0	0	0	0	0	0
11/28/2024 18:42	65003	NEFF_T2	7	4	-3	0.23	0.1	-0.13	-0.89	-0.91	1	1	0	600	600	0
11/28/2024 18:42	64305	LINC_T1	0	0	0	0	0	0	-0.46	-0.52	0	0	0	0	0	0
11/28/2024 18:42	59202	THOM_T1	329	346	17	0.43	0.48	0.05	0	0	0	0	0	0	0	0
11/28/2024 18:43	43801	SWIL_T1	20	27	7	0.51	0.39	-0.12	0	0	0	0	0	0	0	0
11/28/2024 18:43	57203	ROSS_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
11/28/2024 18:43	64403	LAND_T1	0	0	0	0	0	0	-2.03	-2.03	1	1	0	900	900	0
11/28/2024 18:43	65005	NEFF_T2	0	0	0	0	0	0	-0.1	-0.01	0	0	0	0	0	0
11/28/2024 18:43	65003	NEFF_T2	7	4	-3	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
11/28/2024 18:43	65001	NEFF_T2	36	4	-32	0.13	0.13	0	0	0	0	0	0	0	0	0
11/28/2024 18:43	60902	DONG_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
11/28/2024 18:43	57201	ROSS_T1	30	29	-1	0.27	0.31	0.04	0	0	0	0	0	0	0	0
11/28/2024 18:43	43802	SWIL_T1	0	0	0	0	0	0	-0.11	-0.11	1	1	0	600	600	0
11/28/2024 18:44	44301	BEAV_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/28/2024 18:44	59002	MIFF_T1	6	6	0	0.33	0.85	0.52	0	0	0	0	0	0	0	0
11/28/2024 18:44	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 18:44	43302	WATS_T2	4	4	0	0.28	0.7	0.42	0	0	0	0	0	0	0	0
11/28/2024 18:44	43304	WATS_T2	0	0	0	0	0	0	-0.34	-0.57	0	0	0	0	0	0
11/28/2024 18:44	59003	MIFF_T1	1	1	0	0.6	0.7	0.1	0.22	0.23	0	0	0	0	0	0
11/28/2024 18:45	67401	WAKE_T2	0	1	1	0	0.1	0.1	-0.89	-0.87	0	0	0	0	0	0
11/28/2024 18:45	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
11/28/2024 18:45	64702	LITI_T2	170	225	55	0.18	0.2	0.02	0	0	0	0	0	0	0	0
11/28/2024 18:45	64703	LITI_T2	66	75	9	0.17	0.22	0.05	0	0	0	0	0	0	0	0
11/28/2024 18:45	58004	WCAR_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 18:45	58006	WCAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 18:46	45702	LIND_T2	2	14	12	0.3	0.22	-0.08	-0.5	-0.49	0	0	0	0	0	0
11/28/2024 18:46	57201	ROSS_T1	29	91	62	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
11/28/2024 18:46	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 18:46	45704	LIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 18:46	54504	ENOL_T2	0	0	0	0	0	0	-1.08	-1.06	1	1	0	600	600	0
11/28/2024 18:46	54505	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
11/28/2024 18:46	60104	COCA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 18:46	57203	ROSS_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
11/28/2024 18:48	45702	LIND_T2	2	14	12	0.3	0.22	-0.08	-0.5	-0.49	0	0	0	0	0	0
11/28/2024 18:48	64204	KINZ_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
11/28/2024 18:48	64201	KINZ_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
11/28/2024 18:48	45704	LIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 18:48	64203	KINZ_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
11/28/2024 18:49	58001	WCAR_T1	3	4	1	1.17	1.73	0.56	0	0	0	0	0	0	0	0
11/28/2024 18:49	58302	NOTT_T1	0	1	1	0	0	0	0.12	0.15	0	0	0	0	0	0
11/28/2024 18:49	58003	WCAR_T1	1	3	2	1.7	0.7	-1	0.94	0.94	0	0	0	0	0	0
11/28/2024 18:49	54601	SUMM_T2	8	12	4	0.2	0.37	0.17	-3.02	-3.04	2	2	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/28/2024 18:50	54601	SUMM_T2	8	12	4	0.2	0.37	0.17	0	0	0	0	0	0	0	0
11/28/2024 18:50	57201	ROSS_T1	29	91	62	0.3	0.26	-0.04	-1.17	-1.17	0	0	0	0	0	0
11/28/2024 18:50	53901	HALI_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/28/2024 18:50	53903	HALI_T2	2	2	0	1.55	1.6	0.05	0	0	0	0	0	0	0	0
11/28/2024 18:50	54603	SUMM_T2	0	0	0	0	0	0	-0.58	-0.57	1	1	0	900	900	0
11/28/2024 18:50	53902	HALI_T2	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
11/28/2024 18:50	57205	ROSS_T1	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
11/28/2024 18:51	58202	NEWV_T1	0	7	7	0	0.31	0.31	-0.29	-0.31	0	0	0	0	0	0
11/28/2024 18:51	57201	ROSS_T1	29	91	62	0.3	0.26	-0.04	-1.17	-1.17	0	0	0	0	0	0
11/28/2024 18:52	55002	NEWP_T1	5	4	-1	0.86	0.75	-0.11	-0.24	-0.26	0	0	0	0	0	0
11/28/2024 18:52	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 18:52	58401	MORO_T1	0	0	0	0	0	0	-1.05	-1.13	1	1	0	600	600	0
11/28/2024 18:52	58402	MORO_T1	1	1	0	0.2	0	-0.2	0.42	0.43	1	1	0	900	900	0
11/28/2024 18:53	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/28/2024 18:53	67402	WAKE_T2	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
11/28/2024 18:53	52403	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/28/2024 18:53	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 18:53	52402	GRPA_T2	3	3	0	0.57	0.8	0.23	-0.65	-0.67	0	0	0	0	0	0
11/28/2024 18:54	54601	SUMM_T2	8	12	4	0.2	0.37	0.17	-3.04	-2.99	2	2	0	2100	2100	0
11/28/2024 18:54	53902	HALI_T2	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
11/28/2024 18:54	53903	HALI_T2	2	2	0	1.55	1.6	0.05	-0.12	-0.15	0	0	0	0	0	0
11/28/2024 18:54	53901	HALI_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/28/2024 18:54	58401	MORO_T1	0	0	0	0	0	0	-1.05	-1.13	1	1	0	600	600	0
11/28/2024 18:54	58402	MORO_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/28/2024 18:55	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2024 18:55	58401	MORO_T1	0	0	0	0	0	0	-1.05	-1.13	1	1	0	600	600	0
11/28/2024 18:55	54601	SUMM_T2	8	12	4	0.2	0.37	0.17	0	0	0	0	0	0	0	0
11/28/2024 18:55	58402	MORO_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/28/2024 18:56	57203	ROSS_T1	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
11/28/2024 18:56	54603	SUMM_T2	0	0	0	0	0	0	-0.57	-0.59	1	1	0	900	900	0
11/28/2024 18:56	54601	SUMM_T2	8	12	4	0.2	0.37	0.17	0	0	0	0	0	0	0	0
11/28/2024 18:56	57201	ROSS_T1	29	91	62	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
11/28/2024 18:58	53901	HALI_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/28/2024 18:58	53902	HALI_T2	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
11/28/2024 18:58	53903	HALI_T2	2	2	0	1.55	1.6	0.05	0	0	0	0	0	0	0	0
11/28/2024 19:00	57201	ROSS_T1	25	91	66	0.32	0.26	-0.06	0	0	0	0	0	0	0	0
11/28/2024 19:00	57205	ROSS_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
11/28/2024 19:03	53901	HALI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
11/28/2024 19:03	53902	HALI_T2	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
11/28/2024 19:03	53903	HALI_T2	2	2	0	1.45	1.6	0.15	-0.12	-0.15	0	0	0	0	0	0
11/28/2024 19:12	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/28/2024 19:12	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
11/28/2024 19:29	53903	HALI_T2	2	2	0	1.6	1.55	-0.05	0	0	0	0	0	0	0	0
11/28/2024 19:29	53902	HALI_T2	1	1	0	5.7	5.9	0.2	0	0	0	0	0	0	0	0
11/28/2024 19:29	53901	HALI_T2	1	1	0	0.6	0.7	0.1	-0.93	-0.97	0	0	0	0	0	0
11/28/2024 21:00	59201	THOM_T1	22	23	1	0.42	0.63	0.21	0	0	0	0	0	0	0	0
11/28/2024 21:00	59202	THOM_T1	211	291	80	0.23	0.31	0.08	0	0	0	0	0	0	0	0
11/29/2024 7:55	45501	DERR_T2	0	0	0	0	0	0	0.79	0.79	1	1	0	600	600	0
11/29/2024 7:58	61001	DONV_T1	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
11/29/2024 7:59	63305	GREE_T1	6	14	8	0.3	0.3	0	-1.6	-1.53	0	0	0	0	0	0
11/29/2024 8:01	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.06	1	1	0	600	600	0
11/29/2024 8:01	64204	KINZ_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
11/29/2024 8:01	64201	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/29/2024 8:05	55002	NEWP_T1	5	6	1	0.44	0.53	0.09	-0.21	-0.18	0	0	0	0	0	0
11/29/2024 8:05	65702	RVIL_T2	0	0	0	0	0	0	-1.08	-1.06	1	1	0	600	600	0
11/29/2024 8:08	16101	BING_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
11/29/2024 8:09	60301	TWVA_T2	0	0	0	0	0	0	-6.59	-6.64	4	4	0	3600	3600	0
11/29/2024 8:09	67106	SPRI_T2	0	0	0	0	0	0	-1.31	-1.33	1	1	0	900	900	0
11/29/2024 8:12	44801	EDAN_T2	1	0	-1	5.7	0	-5.7	-0.37	-0.39	0	0	0	0	0	0
11/29/2024 8:13	45501	DERR_T2	0	0	0	0	0	0	0.79	0.75	1	1	0	600	600	0
11/29/2024 8:14	12006	HATF_T1	2	2	0	0.6	0.1	-0.5	0.06	0.08	0	0	0	0	0	0
11/29/2024 8:18	64903	MILL_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
11/29/2024 8:20	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/29/2024 8:20	66501	SMAN_T2	0	16	16	0	0.12	0.12	0	0	0	0	0	0	0	0
11/29/2024 8:20	66505	SMAN_T2	2	2	0	0.4	0.75	0.35	0	0	0	0	0	0	0	0
11/29/2024 8:20	64802	MONE_T2	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
11/29/2024 8:20	66502	SMAN_T2	2	27	25	0.3	0.2	-0.1	0.18	0.04	0	0	0	0	0	0
11/29/2024 8:22	66502	SMAN_T2	2	27	25	0.3	0.2	-0.1	0.04	0.15	0	0	0	0	0	0
11/29/2024 8:22	66501	SMAN_T2	0	16	16	0	0.12	0.12	0	0	0	0	0	0	0	0
11/29/2024 8:22	66504	SMAN_T2	0	1	1	0	0.2	0.2	-0.43	-0.44	0	0	0	0	0	0
11/29/2024 8:22	66505	SMAN_T2	2	2	0	0.4	0.75	0.35	0	0	0	0	0	0	0	0
11/29/2024 8:24	66502	SMAN_T2	2	27	25	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/29/2024 8:24	66505	SMAN_T2	2	2	0	0.4	0.75	0.35	0	0	0	0	0	0	0	0
11/29/2024 8:24	66501	SMAN_T2	0	16	16	0	0.12	0.12	0	0	0	0	0	0	0	0
11/29/2024 8:24	65702	RVIL_T2	0	0	0	0	0	0	-1.07	-1.08	1	1	0	600	600	0
11/29/2024 8:24	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/29/2024 8:25	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/29/2024 8:25	66501	SMAN_T2	0	16	16	0	0.12	0.12	0	0	0	0	0	0	0	0
11/29/2024 8:25	66505	SMAN_T2	2	2	0	0.4	0.75	0.35	0	0	0	0	0	0	0	0
11/29/2024 8:25	66502	SMAN_T2	2	27	25	0.3	0.2	-0.1	0.02	0.08	0	0	0	0	0	0
11/29/2024 8:27	24702	FLND_T2	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
11/29/2024 8:28	11203	ELHE_T1	0	0	0	0	0	0	0.77	0.75	0	0	0	0	0	0
11/29/2024 8:29	63305	GREE_T1	12	15	3	0.26	0.51	0.25	0	0	0	0	0	0	0	0
11/29/2024 8:29	63306	GREE_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/29/2024 8:29	63304	GREE_T1	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
11/29/2024 8:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 8:30	63306	GREE_T1	1	1	0	0.3	0.4	0.1	-1.51	-1.51	1	1	0	900	900	0
11/29/2024 8:30	63305	GREE_T1	15	15	0	0.41	0.51	0.1	0	0	0	0	0	0	0	0
11/29/2024 8:31	63302	GREE_T1	0	0	0	0	0	0	0.37	0.4	0	0	0	0	0	0
11/29/2024 8:31	63306	GREE_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/29/2024 8:31	63305	GREE_T1	15	15	0	0.41	0.51	0.1	0	0	0	0	0	0	0	0
11/29/2024 8:32	65502	MOJO_T2	315	314	-1	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
11/29/2024 8:32	63305	GREE_T1	15	15	0	0.41	0.51	0.1	-1.53	-1.57	0	0	0	0	0	0
11/29/2024 8:32	63306	GREE_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
11/29/2024 8:32	65503	MOJO_T2	270	298	28	0.25	0.26	0.01	0	0	0	0	0	0	0	0
11/29/2024 8:33	65502	MOJO_T2	315	314	-1	0.45	0.43	-0.02	-0.81	-0.78	0	0	0	0	0	0
11/29/2024 8:33	65503	MOJO_T2	270	298	28	0.25	0.26	0.01	0	0	0	0	0	0	0	0
11/29/2024 8:34	66901	SHIL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
11/29/2024 8:34	66903	SHIL_T2	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
11/29/2024 8:34	51204	MTON_T2	0	0	0	0	0	0	-0.42	-0.44	1	1	0	600	600	0
11/29/2024 8:35	65503	MOJO_T2	270	298	28	0.25	0.26	0.01	-0.42	-0.4	0	0	0	0	0	0
11/29/2024 8:35	66901	SHIL_T2	1	1	0	0.8	0.7	-0.1	-0.47	-0.47	0	0	0	0	0	0
11/29/2024 8:35	66903	SHIL_T2	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
11/29/2024 8:35	65502	MOJO_T2	315	314	-1	0.45	0.43	-0.02	-0.81	-0.78	0	0	0	0	0	0
11/29/2024 8:35	65602	QVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/29/2024 8:35	66902	SHIL_T2	0	0	0	0	0	0	-1.03	-1.03	0	0	0	0	0	0
11/29/2024 8:35	65601	QVIL_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
11/29/2024 8:36	65503	MOJO_T2	270	298	28	0.25	0.26	0.01	-0.4	-0.41	0	0	0	0	0	0
11/29/2024 8:36	65502	MOJO_T2	315	314	-1	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
11/29/2024 8:37	65502	MOJO_T2	315	314	-1	0.45	0.43	-0.02	-0.78	-0.51	0	0	0	0	0	0
11/29/2024 8:37	65503	MOJO_T2	270	298	28	0.25	0.26	0.01	0	0	0	0	0	0	0	0
11/29/2024 8:37	58202	NEWV_T1	0	0	0	0	0	0	-0.24	-0.17	0	0	0	0	0	0
11/29/2024 8:38	65601	QVIL_T2	0	7	7	0	0.1	0.1	-1.16	-1.17	1	1	0	900	900	0
11/29/2024 8:38	65602	QVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/29/2024 8:39	42204	SHEN_T2	0	0	0	0	0	0	-0.71	-0.82	1	1	0	1200	1200	0
11/29/2024 8:42	21501	CEAV_T2	0	0	0	0	0	0	1.08	1.16	0	0	0	0	0	0
11/29/2024 8:48	65604	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/29/2024 8:48	65603	QVIL_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
11/29/2024 8:48	65602	QVIL_T2	1	21	20	0.1	0.32	0.22	0	0	0	0	0	0	0	0
11/29/2024 8:48	65601	QVIL_T2	5	33	28	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/29/2024 8:49	65601	QVIL_T2	5	33	28	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/29/2024 8:49	65602	QVIL_T2	1	21	20	0.1	0.32	0.22	0	0	0	0	0	0	0	0
11/29/2024 8:49	65604	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/29/2024 8:49	65603	QVIL_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
11/29/2024 8:51	66903	SHIL_T2	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
11/29/2024 8:51	66901	SHIL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
11/29/2024 8:54	67106	SPRI_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/29/2024 8:54	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 8:55	24801	VALM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 9:00	66902	SHIL_T2	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
11/29/2024 9:00	42204	SHEN_T2	0	0	0	0	0	0	-0.82	-0.84	1	1	0	1200	1200	0
11/29/2024 9:00	66901	SHIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/29/2024 9:00	54502	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/29/2024 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
11/29/2024 9:00	58202	NEWV_T1	0	0	0	0	0	0	-0.17	-0.12	0	0	0	0	0	0
11/29/2024 9:00	67503	WEWI_T2	1	0	-1	8.5	8.1	-0.4	-0.05	-0.05	0	0	0	0	0	0
11/29/2024 9:00	67502	WEWI_T2	1	5	4	0.4	0.22	-0.18	0	0	0	0	0	0	0	0
11/29/2024 9:00	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	-1.2	-1.2	1	1	0	600	600	0
11/29/2024 9:00	65604	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/29/2024 9:00	65602	QVIL_T2	2	23	21	0.2	0.39	0.19	0	0	0	0	0	0	0	0
11/29/2024 9:00	65601	QVIL_T2	6	33	27	0.1	0.15	0.05	-1.17	-1.13	1	1	0	900	900	0
11/29/2024 9:00	59201	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/29/2024 9:00	65603	QVIL_T2	0	0	0	0	0	0	0.15	0.05	0	0	0	0	0	0
11/29/2024 9:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
11/29/2024 9:01	65402	MARI_T1	12	0	-12	0.18	0	-0.18	0	0	0	0	0	0	0	0
11/29/2024 9:01	65401	MARI_T1	115	0	-115	0.16	0	-0.16	0	0	0	0	0	0	0	0
11/29/2024 9:02	65402	MARI_T1	12	0	-12	0.18	0	-0.18	0	0	0	0	0	0	0	0
11/29/2024 9:02	65401	MARI_T1	115	0	-115	0.16	0	-0.16	0	0	0	0	0	0	0	0
11/29/2024 9:03	65401	MARI_T1	115	0	-115	0.16	0	-0.16	0.38	0.42	0	0	0	0	0	0
11/29/2024 9:03	65402	MARI_T1	12	0	-12	0.18	0	-0.18	0	0	0	0	0	0	0	0
11/29/2024 9:04	65402	MARI_T1	12	0	-12	0.18	0	-0.18	0.21	0.18	0	0	0	0	0	0
11/29/2024 9:04	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/29/2024 9:04	67605	WARW_T1	34	38	4	0.51	0.55	0.04	0	0	0	0	0	0	0	0
11/29/2024 9:04	65401	MARI_T1	115	0	-115	0.16	0	-0.16	0.38	0.42	0	0	0	0	0	0
11/29/2024 9:05	65402	MARI_T1	12	0	-12	0.18	0	-0.18	0	0	0	0	0	0	0	0
11/29/2024 9:05	65401	MARI_T1	115	0	-115	0.16	0	-0.16	0.38	0.42	0	0	0	0	0	0
11/29/2024 9:06	65401	MARI_T1	115	0	-115	0.16	0	-0.16	0.42	0.52	0	0	0	0	0	0
11/29/2024 9:06	65402	MARI_T1	12	0	-12	0.18	0	-0.18	0	0	0	0	0	0	0	0
11/29/2024 9:06	13302	ORVI_T2	0	0	0	0	0	0	1.6	1.54	0	0	0	0	0	0
11/29/2024 9:07	65602	QVIL_T2	2	23	21	0.2	0.39	0.19	0	0	0	0	0	0	0	0
11/29/2024 9:07	65603	QVIL_T2	0	0	0	0	0	0	0.03	0.06	0	0	0	0	0	0
11/29/2024 9:07	60301	TWVA_T2	0	1	1	0	0.1	0.1	-6.75	-6.7	4	4	0	3600	3600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/29/2024 9:07	65604	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/29/2024 9:07	65601	QVIL_T2	6	33	27	0.1	0.15	0.05	0	0	0	0	0	0	0	0
11/29/2024 9:08	66901	SHIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/29/2024 9:08	55001	NEWP_T1	0	0	0	0	0	0	-0.29	-0.24	0	0	0	0	0	0
11/29/2024 9:08	55002	NEWP_T1	4	4	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
11/29/2024 9:08	66903	SHIL_T2	0	0	0	0	0	0	-1.97	-1.96	0	0	0	0	0	0
11/29/2024 9:09	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 9:09	66901	SHIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/29/2024 9:10	46004	BERW_T2	0	2	2	0	0	0	-0.76	-0.8	0	0	0	0	0	0
11/29/2024 9:11	45501	DERR_T2	0	0	0	0	0	0	0.75	0.73	1	1	0	600	600	0
11/29/2024 9:11	24801	VALM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 9:13	20603	GRWO_T2	0	0	0	0	0	0	-0.64	-0.58	1	1	0	900	900	0
11/29/2024 9:13	41301	FISH_T1	3	3	0	1.37	1.57	0.2	-0.41	-0.42	0	0	0	0	0	0
11/29/2024 9:14	63306	GREE_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
11/29/2024 9:14	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/29/2024 9:14	45501	DERR_T2	0	0	0	0	0	0	0.75	0.73	1	1	0	600	600	0
11/29/2024 9:14	63305	GREE_T1	14	14	0	0.31	0.32	0.01	-1.56	-1.51	0	0	0	0	0	0
11/29/2024 9:14	64204	KINZ_T1	9	1	-8	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
11/29/2024 9:14	64202	KINZ_T1	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
11/29/2024 9:14	64203	KINZ_T1	0	0	0	0	0	0	-0.04	-0.04	1	1	0	600	600	0
11/29/2024 9:15	63501	HEID_TBK1-2	6	2	-4	0.22	0.45	0.23	1.29	1.29	0	0	0	0	0	0
11/29/2024 9:15	63306	GREE_T1	1	1	0	0.5	0.2	-0.3	-1.5	-1.51	1	1	0	900	900	0
11/29/2024 9:15	63305	GREE_T1	14	4	-10	0.32	0.3	-0.02	0	0	0	0	0	0	0	0
11/29/2024 9:16	63501	HEID_TBK1-2	6	2	-4	0.22	0.45	0.23	0.64	0.65	0	0	0	0	0	0
11/29/2024 9:16	54506	ENOL_T2	0	0	0	0	0	0	0.27	0.43	1	1	0	600	600	0
11/29/2024 9:16	54505	ENOL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
11/29/2024 9:16	54502	ENOL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/29/2024 9:17	63801	HEMP_T1	0	0	0	0	0	0	-1.33	-0.34	1	0	-1	900	0	-900
11/29/2024 9:17	63804	HEMP_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
11/29/2024 9:17	40602	PIGR_T1	1	1	0	1.9	1.6	-0.3	0	0	0	0	0	0	0	0
11/29/2024 9:17	63803	HEMP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/29/2024 9:17	63306	GREE_T1	1	1	0	0.5	0.2	-0.3	-3	-3.01	2	2	0	1800	1800	0
11/29/2024 9:17	63305	GREE_T1	14	4	-10	0.32	0.3	-0.02	0	0	0	0	0	0	0	0
11/29/2024 9:17	40601	PIGR_T1	5	108	103	0.16	0.22	0.06	0	0	0	0	0	0	0	0
11/29/2024 9:18	64802	MONE_T2	1	0	-1	0.3	0	-0.3	0.4	0.37	0	0	0	0	0	0
11/29/2024 9:18	12006	HATF_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
11/29/2024 9:20	58302	NOTT_T1	0	0	0	0	0	0	-0.76	-0.8	1	1	0	900	900	0
11/29/2024 9:21	67106	SPRI_T2	2	3	1	0.1	0.13	0.03	-1.31	-1.31	1	1	0	900	900	0
11/29/2024 9:22	67106	SPRI_T2	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
11/29/2024 9:24	42504	ALTA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/29/2024 9:24	42501	ALTA_T2	0	0	0	0	0	0	0	-0.03	1	1	0	600	600	0
11/29/2024 9:25	42504	ALTA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/29/2024 9:25	67106	SPRI_T2	2	3	1	0.1	0.13	0.03	-1.31	-1.31	1	1	0	900	900	0
11/29/2024 9:25	42501	ALTA_T2	0	0	0	0	0	0	0	-0.03	1	1	0	600	600	0
11/29/2024 9:26	11203	ELHE_T1	0	0	0	0	0	0	0.79	0.81	0	0	0	0	0	0
11/29/2024 9:29	40702	FFLD_T1	176	212	36	0.43	0.58	0.15	-1.12	-1.11	1	1	0	1200	1200	0
11/29/2024 9:29	40703	FFLD_T1	4	4	0	0.48	0.6	0.12	0	0	0	0	0	0	0	0
11/29/2024 9:29	40701	FFLD_T1	33	60	27	0.6	0.54	-0.06	0	0	0	0	0	0	0	0
11/29/2024 9:31	40702	FFLD_T1	186	213	27	0.48	0.58	0.1	0	0	0	0	0	0	0	0
11/29/2024 9:31	40703	FFLD_T1	4	4	0	0.53	0.6	0.07	0	0	0	0	0	0	0	0
11/29/2024 9:31	40701	FFLD_T1	43	60	17	0.57	0.54	-0.03	0	0	0	0	0	0	0	0
11/29/2024 9:32	64702	LITI_T2	41	17	-24	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
11/29/2024 9:32	64701	LITI_T1	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
11/29/2024 9:32	64703	LITI_T2	28	10	-18	0.11	0.11	0	0	0	0	0	0	0	0	0
11/29/2024 9:32	40101	HUNT_T2	1	16	15	0.1	0	-0.1	-0.63	-0.62	0	0	0	0	0	0
11/29/2024 9:33	64703	LITI_T2	28	10	-18	0.11	0.11	0	0	0	0	0	0	0	0	0
11/29/2024 9:33	64702	LITI_T2	41	17	-24	0.11	0.1	-0.01	-0.98	-0.96	0	0	0	0	0	0
11/29/2024 9:34	64702	LITI_T2	41	17	-24	0.11	0.1	-0.01	-0.98	-0.96	0	0	0	0	0	0
11/29/2024 9:34	64703	LITI_T2	28	10	-18	0.11	0.11	0	0	0	0	0	0	0	0	0
11/29/2024 9:34	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
11/29/2024 9:35	64701	LITI_T1	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
11/29/2024 9:36	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
11/29/2024 9:38	64101	REFR_T1	0	0	0	0	0	0	-0.14	-0.08	0	0	0	0	0	0
11/29/2024 9:40	15103	UPHA_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
11/29/2024 9:41	58003	WCAR_T1	1	1	0	1.3	1.3	0	0	0	1	1	0	600	600	0
11/29/2024 9:41	58001	WCAR_T1	3	3	0	0.6	0.73	0.13	0	0	0	0	0	0	0	0
11/29/2024 9:46	59002	MIFF_T1	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/29/2024 9:46	59003	MIFF_T1	1	1	0	0.1	0.3	0.2	-0.39	-0.58	0	0	0	0	0	0
11/29/2024 9:49	65602	QVIL_T2	7	6	-1	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
11/29/2024 9:49	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 9:49	65601	QVIL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/29/2024 9:49	65702	RVIL_T2	0	0	0	0	0	0	-2.01	-2.08	2	2	0	1200	1200	0
11/29/2024 9:50	65702	RVIL_T2	0	0	0	0	0	0	-3.01	-3.12	3	3	0	1800	1800	0
11/29/2024 9:50	57201	ROSS_T1	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
11/29/2024 9:50	57205	ROSS_T1	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
11/29/2024 9:53	65601	QVIL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
11/29/2024 9:53	65602	QVIL_T2	7	6	-1	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
11/29/2024 9:53	65603	QVIL_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
11/29/2024 9:53	65702	RVIL_T2	0	0	0	0	0	0	-1.04	-1.06	1	1	0	600	600	0
11/29/2024 9:54	65702	RVIL_T2	0	0	0	0	0	0	-1.04	-1.06	1	1	0	600	600	0
11/29/2024 9:55	55002	NEWP_T1	4	4	0	0.65	0.63	-0.02	-0.2	-0.17	0	0	0	0	0	0
11/29/2024 9:58	16101	BING_T2	0	1	1	0	0	0	0.79	0.81	0	0	0	0	0	0
11/29/2024 9:58	16102	BING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
11/29/2024 9:58	60803	BUCK_T1	2	9	7	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
11/29/2024 9:58	60801	BUCK_T1	1	4	3	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
11/29/2024 10:02	45802	HEGI_T2	8	34	26	0.39	0.48	0.09	0	0	0	0	0	0	0	0
11/29/2024 10:06	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/29/2024 10:09	60201	ATGL_T2	16	7	-9	0.14	0.11	-0.03	0	0	0	0	0	0	0	0
11/29/2024 10:11	60201	ATGL_T2	16	7	-9	0.14	0.11	-0.03	-0.2	-0.19	0	0	0	0	0	0
11/29/2024 10:12	46506	LOHA_T1	3	3	0	2.87	2.43	-0.44	0	0	0	0	0	0	0	0
11/29/2024 10:12	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
11/29/2024 10:13	60201	ATGL_T2	16	7	-9	0.14	0.11	-0.03	-0.2	-0.19	0	0	0	0	0	0
11/29/2024 10:14	53902	HALI_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
11/29/2024 10:14	60201	ATGL_T2	16	7	-9	0.14	0.11	-0.03	0	0	0	0	0	0	0	0
11/29/2024 10:14	61305	EARL_T1	0	0	0	0	0	0	0	-0.01	1	1	0	900	900	0
11/29/2024 10:14	53901	HALI_T2	15	5	-10	0.23	0.44	0.21	-1.47	-1.41	0	0	0	0	0	0
11/29/2024 10:14	53903	HALI_T2	2	2	0	1.45	1.45	0	0	0	0	0	0	0	0	0
11/29/2024 10:16	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 10:17	53903	HALI_T2	2	2	0	1.45	1.4	-0.05	0	0	0	0	0	0	0	0
11/29/2024 10:17	45702	LIND_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
11/29/2024 10:17	53902	HALI_T2	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
11/29/2024 10:17	53901	HALI_T2	4	5	1	0.53	0.44	-0.09	-2.93	-2.82	0	0	0	0	0	0
11/29/2024 10:18	40101	HUNT_T2	9	61	52	0.26	0.44	0.18	-0.53	-0.6	0	0	0	0	0	0
11/29/2024 10:18	64904	MILL_T1	0	0	0	0	0	0	0.51	0.48	0	0	0	0	0	0
11/29/2024 10:21	66504	SMAN_T2	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
11/29/2024 10:21	66502	SMAN_T2	1	30	29	0.1	0.27	0.17	-0.05	0.13	0	0	0	0	0	0
11/29/2024 10:21	66505	SMAN_T2	3	3	0	0.57	0.73	0.16	0	0	0	0	0	0	0	0
11/29/2024 10:21	66501	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
11/29/2024 10:22	66501	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
11/29/2024 10:22	65001	NEFF_T2	0	0	0	0	0	0	0.09	-0.06	0	0	0	0	0	0
11/29/2024 10:22	44902	SCOT_T2	0	0	0	0	0	0	-0.94	-0.97	0	0	0	0	0	0
11/29/2024 10:22	66505	SMAN_T2	3	3	0	0.57	0.73	0.16	0	0	0	0	0	0	0	0
11/29/2024 10:22	66504	SMAN_T2	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
11/29/2024 10:22	66502	SMAN_T2	1	30	29	0.1	0.27	0.17	-0.03	0.06	0	0	0	0	0	0
11/29/2024 10:23	66501	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
11/29/2024 10:23	66505	SMAN_T2	3	3	0	0.57	0.73	0.16	0	0	0	0	0	0	0	0
11/29/2024 10:23	66504	SMAN_T2	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
11/29/2024 10:23	66502	SMAN_T2	1	30	29	0.1	0.27	0.17	-0.05	0.13	0	0	0	0	0	0
11/29/2024 10:24	66504	SMAN_T2	0	6	6	0	0.27	0.27	-1.07	-1.13	0	0	0	0	0	0
11/29/2024 10:24	18001	ZION_T1	2	4	2	9.55	4.88	-4.67	0	0	0	0	0	0	0	0
11/29/2024 10:24	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/29/2024 10:24	66502	SMAN_T2	1	30	29	0.1	0.27	0.17	-0.03	0.06	0	0	0	0	0	0
11/29/2024 10:24	66505	SMAN_T2	3	3	0	0.57	0.73	0.16	0	0	0	0	0	0	0	0
11/29/2024 10:24	66501	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
11/29/2024 10:24	42501	ALTA_T2	0	0	0	0	0	0	0.02	0.03	1	1	0	600	600	0
11/29/2024 10:25	66502	SMAN_T2	1	30	29	0.1	0.27	0.17	-0.03	0.06	0	0	0	0	0	0
11/29/2024 10:25	66501	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
11/29/2024 10:25	66504	SMAN_T2	0	6	6	0	0.27	0.27	-1.07	-1.13	0	0	0	0	0	0
11/29/2024 10:25	66505	SMAN_T2	3	3	0	0.57	0.73	0.16	0	0	0	0	0	0	0	0
11/29/2024 10:26	66502	SMAN_T2	1	30	29	0.1	0.27	0.17	-0.03	0.06	0	0	0	0	0	0
11/29/2024 10:26	66505	SMAN_T2	3	3	0	0.57	0.73	0.16	0	0	0	0	0	0	0	0
11/29/2024 10:26	66504	SMAN_T2	0	6	6	0	0.27	0.27	-0.54	-0.57	0	0	0	0	0	0
11/29/2024 10:26	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/29/2024 10:26	42501	ALTA_T2	0	0	0	0	0	0	0.02	0.03	1	1	0	600	600	0
11/29/2024 10:26	11202	ELHE_T2	0	0	0	0	0	0	0.41	0.38	1	1	0	1200	1200	0
11/29/2024 10:26	66503	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
11/29/2024 10:27	66501	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
11/29/2024 10:27	66505	SMAN_T2	3	3	0	0.57	0.73	0.16	0	0	0	0	0	0	0	0
11/29/2024 10:27	66504	SMAN_T2	0	6	6	0	0.27	0.27	-0.54	-0.57	0	0	0	0	0	0
11/29/2024 10:27	66502	SMAN_T2	1	30	29	0.1	0.27	0.17	0	0	0	0	0	0	0	0
11/29/2024 10:32	11507	FREE_T2	0	0	0	0	0	0	0.27	0.34	0	0	0	0	0	0
11/29/2024 10:33	45702	LIND_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
11/29/2024 10:42	10801	CHHI_T1	1	0	-1	0.8	0	-0.8	-0.93	-0.92	1	1	0	900	900	0
11/29/2024 10:43	44301	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/29/2024 10:44	53902	HALI_T2	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
11/29/2024 10:44	53901	HALI_T2	5	3	-2	0.44	0.5	0.06	-2.78	-2.84	0	0	0	0	0	0
11/29/2024 10:44	53903	HALI_T2	2	2	0	1.4	1.45	0.05	0	0	0	0	0	0	0	0
11/29/2024 10:45	53901	HALI_T2	3	3	0	0.5	0.57	0.07	0	0	0	0	0	0	0	0
11/29/2024 10:45	53902	HALI_T2	1	1	0	6	6.3	0.3	0	0	0	0	0	0	0	0
11/29/2024 10:45	53903	HALI_T2	2	2	0	1.3	1.45	0.15	0	0	0	0	0	0	0	0
11/29/2024 10:48	53901	HALI_T2	3	3	0	0.5	0.57	0.07	0	0	0	0	0	0	0	0
11/29/2024 10:48	53902	HALI_T2	1	1	0	6	6.3	0.3	0	0	0	0	0	0	0	0
11/29/2024 10:48	53903	HALI_T2	2	2	0	1.3	1.45	0.15	-0.09	-0.1	0	0	0	0	0	0
11/29/2024 10:48	47203	FAXO_T2	1	1	0	1.6	1.1	-0.5	-0.34	-0.32	0	0	0	0	0	0
11/29/2024 10:53	42601	TUSC_T1	0	0	0	0	0	0	-0.39	-0.34	1	1	0	1200	1200	0
11/29/2024 10:53	54602	SUMM_T2	15	16	1	0.34	0.56	0.22	0	0	0	0	0	0	0	0
11/29/2024 10:53	54601	SUMM_T2	7	11	4	0.37	0.44	0.07	-4.08	-4.15	2	2	0	2100	2100	0
11/29/2024 10:54	54602	SUMM_T2	15	16	1	0.34	0.56	0.22	0	0	0	0	0	0	0	0
11/29/2024 10:54	54601	SUMM_T2	7	11	4	0.37	0.44	0.07	-8.17	-8.31	4	4	0	4200	4200	0
11/29/2024 10:55	54601	SUMM_T2	7	11	4	0.37	0.44	0.07	-4.08	-4.15	2	2	0	2100	2100	0
11/29/2024 10:55	54602	SUMM_T2	15	16	1	0.34	0.56	0.22	0	0	0	0	0	0	0	0
11/29/2024 10:58	52403	GRPA_T2	2	2	0	0.85	0.9	0.05	-0.02	-0.07	0	0	0	0	0	0
11/29/2024 10:58	52402	GRPA_T2	2	3	1	0.15	0.3	0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/29/2024 10:59	53901	HALI_T2	3	3	0	0.5	0.57	0.07	0	0	0	0	0	0	0	0
11/29/2024 10:59	53902	HALI_T2	1	1	0	6	6.3	0.3	0	0	0	0	0	0	0	0
11/29/2024 10:59	53903	HALI_T2	2	2	0	1.3	1.45	0.15	-0.1	-0.1	0	0	0	0	0	0
11/29/2024 11:03	53902	HALI_T2	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
11/29/2024 11:03	53903	HALI_T2	2	2	0	1.45	1.45	0	-0.1	-0.1	0	0	0	0	0	0
11/29/2024 11:03	53901	HALI_T2	1	3	2	1.3	0.57	-0.73	0	0	0	0	0	0	0	0
11/29/2024 11:10	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
11/29/2024 11:15	40101	HUNT_T2	17	56	39	0.66	0.31	-0.35	-0.64	-0.63	0	0	0	0	0	0
11/29/2024 11:15	53901	HALI_T2	3	1	-2	0.57	1.2	0.63	0	0	0	0	0	0	0	0
11/29/2024 11:15	53902	HALI_T2	1	1	0	6.1	6	-0.1	-0.84	-0.86	0	0	0	0	0	0
11/29/2024 11:15	53903	HALI_T2	2	2	0	1.45	1.3	-0.15	0	0	0	0	0	0	0	0
11/29/2024 11:16	53901	HALI_T2	3	1	-2	0.57	1.2	0.63	0	0	0	0	0	0	0	0
11/29/2024 11:16	53903	HALI_T2	2	2	0	1.45	1.3	-0.15	0	0	0	0	0	0	0	0
11/29/2024 11:16	53902	HALI_T2	1	1	0	6.1	6	-0.1	-0.84	-0.86	0	0	0	0	0	0
11/29/2024 11:17	45702	LIND_T2	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
11/29/2024 11:17	22602	KIMB_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
11/29/2024 11:17	45701	LIND_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
11/29/2024 11:22	58202	NEWV_T1	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
11/29/2024 11:22	13905	SEID_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
11/29/2024 11:24	52402	GRPA_T2	3	3	0	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
11/29/2024 11:24	52403	GRPA_T2	2	2	0	1.55	1.2	-0.35	-0.07	-0.12	0	0	0	0	0	0
11/29/2024 11:26	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.88	1	1	0	900	900	0
11/29/2024 11:26	13101	NHAM_T1	3	0	-3	0.47	0	-0.47	-1.95	-1.96	2	2	0	2400	2400	0
11/29/2024 11:26	10702	CATA_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
11/29/2024 11:28	53902	HALI_T2	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
11/29/2024 11:28	53903	HALI_T2	2	2	0	1.45	1.3	-0.15	0	0	0	0	0	0	0	0
11/29/2024 11:28	53901	HALI_T2	3	1	-2	0.57	1.2	0.63	-1.38	-1.41	0	0	0	0	0	0
11/29/2024 11:30	53902	HALI_T2	1	0	-1	5.9	6	0.1	0	0	0	0	0	0	0	0
11/29/2024 11:30	53901	HALI_T2	1	1	0	1.2	1	-0.2	-2.76	-2.82	0	0	0	0	0	0
11/29/2024 11:30	53903	HALI_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
11/29/2024 11:31	55101	WERT_T1	0	0	0	0	0	0	-1.39	-1.43	1	1	0	600	600	0
11/29/2024 11:32	63602	LETO_T1	0	0	0	0	0	0	-0.44	-0.51	0	0	0	0	0	0
11/29/2024 11:32	17802	GILB_T1	0	0	0	0	0	0	0.11	0.23	0	0	0	0	0	0
11/29/2024 11:32	63601	LETO_T1	4	4	0	0.28	0.43	0.15	0	0	0	0	0	0	0	0
11/29/2024 11:34	63601	LETO_T1	4	4	0	0.28	0.43	0.15	0	0	0	0	0	0	0	0
11/29/2024 11:34	63602	LETO_T1	0	0	0	0	0	0	-0.44	-0.51	0	0	0	0	0	0
11/29/2024 11:38	67402	WAKE_T2	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
11/29/2024 11:40	10702	CATA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
11/29/2024 11:40	10705	CATA_T2	0	0	0	0	0	0	-0.88	-0.86	1	1	0	900	900	0
11/29/2024 11:42	10705	CATA_T2	0	0	0	0	0	0	-2.65	-2.57	3	3	0	2700	2700	0
11/29/2024 11:42	10702	CATA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
11/29/2024 11:43	61701	ELIZ_T1	1	2	1	5.2	3	-2.2	0.38	0.12	0	0	0	0	0	0
11/29/2024 11:44	10705	CATA_T2	0	0	0	0	0	0	-1.77	-1.72	2	2	0	1800	1800	0
11/29/2024 11:44	10702	CATA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
11/29/2024 11:46	10702	CATA_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
11/29/2024 11:46	13101	NHAM_T1	0	1	1	0	0	0	-1.96	-2.12	2	2	0	2400	2400	0
11/29/2024 11:46	10705	CATA_T2	0	0	0	0	0	0	-0.88	-0.86	1	1	0	900	900	0
11/29/2024 11:48	64802	MONE_T2	5	17	12	0.14	0.15	0.01	0.09	0.1	0	0	0	0	0	0
11/29/2024 11:48	64801	MONE_T2	6	6	0	0.13	0.2	0.07	0	0	0	0	0	0	0	0
11/29/2024 11:49	65502	MOJO_T2	45	202	157	0.1	0.14	0.04	-0.71	-0.74	0	0	0	0	0	0
11/29/2024 11:49	61701	ELIZ_T1	2	1	-1	3	5.1	2.1	0.38	0.12	0	0	0	0	0	0
11/29/2024 11:49	65503	MOJO_T2	3	37	34	0.1	0.11	0.01	-0.37	-0.4	0	0	0	0	0	0
11/29/2024 11:50	65502	MOJO_T2	45	202	157	0.1	0.14	0.04	0	0	0	0	0	0	0	0
11/29/2024 11:50	65503	MOJO_T2	3	37	34	0.1	0.11	0.01	0	0	0	0	0	0	0	0
11/29/2024 11:51	65502	MOJO_T2	45	202	157	0.1	0.14	0.04	0	0	0	0	0	0	0	0
11/29/2024 11:51	65503	MOJO_T2	3	37	34	0.1	0.11	0.01	-0.4	-0.4	0	0	0	0	0	0
11/29/2024 12:07	43304	WATS_T2	0	1	1	0	0.1	0.1	-0.36	-0.31	0	0	0	0	0	0
11/29/2024 12:08	67402	WAKE_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
11/29/2024 12:08	10705	CATA_T2	0	0	0	0	0	0	-0.86	-0.86	1	1	0	900	900	0
11/29/2024 12:08	10702	CATA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
11/29/2024 12:11	46004	BERW_T2	0	1	1	0	0	0	-0.7	-0.76	0	0	0	0	0	0
11/29/2024 12:11	46002	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 12:12	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 12:12	10105	ALLE_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/29/2024 12:12	10103	ALLE_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 12:12	10101	ALLE_T3	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
11/29/2024 12:13	40303	TAMA_T3	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
11/29/2024 12:13	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 12:13	40302	TAMA_T3	4	4	0	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
11/29/2024 12:15	60904	DONG_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/29/2024 12:15	60903	DONG_T2	0	1	1	0	0.2	0.2	0.76	0.76	0	0	0	0	0	0
11/29/2024 12:15	60901	DONG_T2	0	3	3	0	0.63	0.63	0	0	0	0	0	0	0	0
11/29/2024 12:15	60902	DONG_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
11/29/2024 12:16	60902	DONG_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
11/29/2024 12:16	60903	DONG_T2	0	1	1	0	0.2	0.2	0.76	0.76	0	0	0	0	0	0
11/29/2024 12:16	60904	DONG_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/29/2024 12:16	60901	DONG_T2	0	3	3	0	0.63	0.63	0	0	0	0	0	0	0	0
11/29/2024 12:17	52403	GRPA_T2	10	18	8	0.63	0.66	0.03	-0.14	-0.15	0	0	0	0	0	0
11/29/2024 12:17	52402	GRPA_T2	3	7	4	0.23	0.66	0.43	0	0	0	0	0	0	0	0
11/29/2024 12:23	54601	SUMM_T2	7	12	5	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
11/29/2024 12:23	54602	SUMM_T2	16	16	0	0.35	0.35	0	0	0	1	1	0	600	600	0
11/29/2024 12:27	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-1.02	1	1	0	600	600	0
11/29/2024 12:27	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
11/29/2024 12:27	54502	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/29/2024 12:30	52403	GRPA_T2	17	15	-2	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
11/29/2024 12:30	52402	GRPA_T2	3	7	4	0.57	0.66	0.09	-0.99	-1.01	0	0	0	0	0	0
11/29/2024 12:39	66505	SMAN_T2	3	3	0	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
11/29/2024 12:39	66503	SMAN_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
11/29/2024 12:39	54602	SUMM_T2	16	9	-7	0.35	0.29	-0.06	0	0	0	0	0	0	0	0
11/29/2024 12:39	54601	SUMM_T2	12	10	-2	0.33	0.43	0.1	0	0	0	0	0	0	0	0
11/29/2024 12:39	42701	AUGU_T1	1	3	2	0.4	0.2	-0.2	0	0	2	2	0	1800	1800	0
11/29/2024 12:41	66503	SMAN_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
11/29/2024 12:41	66505	SMAN_T2	3	3	0	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
11/29/2024 13:05	51201	MTON_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/29/2024 13:06	58401	MORO_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	600	600	0
11/29/2024 13:07	58401	MORO_T1	0	0	0	0	0	0	-0.97	-0.99	1	1	0	600	600	0
11/29/2024 13:11	46004	BERW_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/29/2024 13:11	46002	BERW_T2	0	0	0	0	0	0	-0.5	-0.48	0	0	0	0	0	0
11/29/2024 13:12	61001	DONV_T1	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
11/29/2024 13:13	61001	DONV_T1	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
11/29/2024 13:15	64401	LAND_T1	0	0	0	0	0	0	-0.46	-0.43	0	0	0	0	0	0
11/29/2024 13:18	64704	LITI_T1	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
11/29/2024 13:21	65804	RTWN_T1	0	0	0	0	0	0	0.06	0.03	1	1	0	600	600	0
11/29/2024 13:21	65801	RTWN_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/29/2024 13:21	57401	SPAN_T1	1	2	1	0.1	0.25	0.15	-1.05	-1.08	1	1	0	600	600	0
11/29/2024 13:21	57403	SPAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/29/2024 13:22	57403	SPAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/29/2024 13:22	57401	SPAN_T1	1	2	1	0.1	0.25	0.15	-2.16	-2.19	2	2	0	1200	1200	0
11/29/2024 13:23	65801	RTWN_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/29/2024 13:23	65804	RTWN_T1	0	0	0	0	0	0	0.06	0.03	1	1	0	600	600	0
11/29/2024 13:23	57403	SPAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/29/2024 13:23	57401	SPAN_T1	1	2	1	0.1	0.25	0.15	-1.08	-1.1	1	1	0	600	600	0
11/29/2024 13:24	65804	RTWN_T1	0	0	0	0	0	0	0.06	0.03	1	1	0	600	600	0
11/29/2024 13:24	65801	RTWN_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/29/2024 13:25	54601	SUMM_T2	6	13	7	0.47	0.67	0.2	0	0	0	0	0	0	0	0
11/29/2024 13:25	54603	SUMM_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	900	900	0
11/29/2024 13:25	54602	SUMM_T2	1	9	8	0.2	0.37	0.17	0	0	0	0	0	0	0	0
11/29/2024 13:26	57403	SPAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
11/29/2024 13:26	57401	SPAN_T1	1	2	1	0.1	0.25	0.15	-1.08	-1.1	1	1	0	600	600	0
11/29/2024 13:26	54602	SUMM_T2	1	9	8	0.2	0.37	0.17	0	0	0	0	0	0	0	0
11/29/2024 13:26	54601	SUMM_T2	6	13	7	0.47	0.67	0.2	0	0	0	0	0	0	0	0
11/29/2024 13:26	54603	SUMM_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	900	900	0
11/29/2024 13:28	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
11/29/2024 13:28	54504	ENOL_T2	0	0	0	0	0	0	-1.01	-1.02	1	1	0	600	600	0
11/29/2024 13:28	54505	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
11/29/2024 13:28	54502	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/29/2024 13:31	40101	HUNT_T2	145	202	57	0.48	0.47	-0.01	-0.59	-0.58	0	0	0	0	0	0
11/29/2024 13:32	63804	HEMP_T1	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
11/29/2024 13:32	63801	HEMP_T1	0	0	0	0	0	0	-0.36	-0.32	0	0	0	0	0	0
11/29/2024 13:33	40101	HUNT_T2	145	202	57	0.48	0.47	-0.01	0	0	0	0	0	0	0	0
11/29/2024 13:34	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
11/29/2024 13:34	54504	ENOL_T2	0	0	0	0	0	0	-1.01	-1.02	1	1	0	600	600	0
11/29/2024 13:34	54501	ENOL_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/29/2024 13:34	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
11/29/2024 13:42	57401	SPAN_T1	2	2	0	0.25	0.15	-0.1	-1.1	-1.12	1	1	0	600	600	0
11/29/2024 13:42	57403	SPAN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
11/29/2024 13:50	57403	SPAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/29/2024 13:50	57401	SPAN_T1	1	2	1	0.2	0.15	-0.05	-1.1	-1.12	1	1	0	600	600	0
11/29/2024 13:52	57403	SPAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/29/2024 13:52	57401	SPAN_T1	1	2	1	0.2	0.15	-0.05	-1.12	-0.88	1	1	0	600	600	0
11/29/2024 13:58	57401	SPAN_T1	1	2	1	0.2	0.15	-0.05	-1.12	-0.88	1	1	0	600	600	0
11/29/2024 13:58	57403	SPAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
11/29/2024 13:59	63501	HEID_TBK1-2	2	3	1	0.6	0.45	-0.15	0.46	0.45	0	0	0	0	0	0
11/29/2024 14:01	63501	HEID_TBK1-2	1	31	30	0.3	0.2	-0.1	0.46	0.45	0	0	0	0	0	0
11/29/2024 14:02	63501	HEID_TBK1-2	1	31	30	0.3	0.2	-0.1	0.46	0.45	0	0	0	0	0	0
11/29/2024 14:09	57401	SPAN_T1	2	2	0	0.15	0.25	0.1	-0.88	-0.97	1	1	0	600	600	0
11/29/2024 14:14	61302	EARL_T1	0	0	0	0	0	0	0.06	-0.09	2	2	0	1800	1800	0
11/29/2024 14:17	39601	LNFD_T1	0	9	9	0	0	0	0	0	1	1	0	900	900	0
11/29/2024 14:19	54206	PENN_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
11/29/2024 14:27	60901	DONG_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
11/29/2024 14:27	60903	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/29/2024 14:27	60902	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/29/2024 14:28	45802	HEGI_T2	46	49	3	1.13	1.51	0.38	1.16	-0.23	2	2	0	1800	1800	0
11/29/2024 14:32	14602	SWHI_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
11/29/2024 14:36	54201	PENN_T1	9	7	-2	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
11/29/2024 14:36	54203	PENN_T1	19	18	-1	1.08	1.1	0.02	-0.01	-0.03	0	0	0	0	0	0
11/29/2024 14:37	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	-1.13	-1.09	0	0	0	0	0	0
11/29/2024 14:42	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	-1.13	-1.09	0	0	0	0	0	0
11/29/2024 14:51	42201	SHEN_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
11/29/2024 15:00	59301	MCAL_T1	2	0	-2	1.35	0	-1.35	-1.92	-1.89	1	1	0	600	600	0
11/29/2024 15:00	59302	MCAL_T1	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/29/2024 15:01	46803	HEPB_T2	48	42	-6	0.23	0.21	-0.02	0.29	0.28	0	0	0	0	0	0
11/29/2024 15:01	46801	HEPB_T2	33	30	-3	0.38	0.42	0.04	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/29/2024 15:06	65503	MOJO_T2	187	124	-63	0.19	0.14	-0.05	0	0	0	0	0	0	0	0
11/29/2024 15:06	65502	MOJO_T2	314	308	-6	0.38	0.28	-0.1	-1.14	-1.16	0	0	0	0	0	0
11/29/2024 15:20	41902	REED_T1	5	22	17	0.52	0.28	-0.24	1.1	1.15	0	0	0	0	0	0
11/29/2024 15:21	41902	REED_T1	5	22	17	0.52	0.28	-0.24	1.15	1.15	0	0	0	0	0	0
11/29/2024 15:24	41902	REED_T1	5	22	17	0.52	0.28	-0.24	2.29	2.3	0	0	0	0	0	0
11/29/2024 15:26	67401	WAKE_T2	0	0	0	0	0	0	-1.05	-1.1	0	0	0	0	0	0
11/29/2024 15:32	46801	HEPB_T2	30	41	11	0.42	0.36	-0.06	0.6	0.62	0	0	0	0	0	0
11/29/2024 15:32	46803	HEPB_T2	41	41	0	0.21	0.24	0.03	0	0	0	0	0	0	0	0
11/29/2024 16:26	58202	NEWV_T1	0	0	0	0	0	0	-0.22	-0.57	0	0	0	0	0	0
11/29/2024 18:17	61701	ELIZ_T1	1	1	0	4.8	5	0.2	0.03	0.2	0	0	0	0	0	0
11/29/2024 18:21	46004	BERW_T2	2	3	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/29/2024 18:21	46002	BERW_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
11/29/2024 18:22	61701	ELIZ_T1	1	1	0	4.8	5	0.2	0.2	0	0	0	0	0	0	0
11/29/2024 18:25	42701	AUGU_T1	0	1	1	0	0.4	0.4	0	0	2	2	0	1800	1800	0
11/29/2024 18:26	16101	BING_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
11/29/2024 18:27	24801	VALM_T1	3	3	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/29/2024 18:27	42201	SHEN_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
11/29/2024 18:28	16101	BING_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
11/29/2024 18:28	11507	FREE_T2	3	4	1	0.5	0	-0.5	0.36	0.36	0	0	0	0	0	0
11/29/2024 18:30	40101	HUNT_T2	6	13	7	0.42	0.6	0.18	-1.51	-1.51	0	0	0	0	0	0
11/29/2024 18:31	41901	REED_T1	8	9	1	0.48	0.52	0.04	0	0	0	0	0	0	0	0
11/29/2024 18:31	41902	REED_T1	0	1	1	0	0	0	0.26	0.25	1	1	0	900	900	0
11/29/2024 18:32	17802	GILB_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
11/29/2024 18:32	13302	ORVI_T2	0	0	0	0	0	0	1.48	1.41	0	0	0	0	0	0
11/29/2024 18:32	42204	SHEN_T2	0	0	0	0	0	0	-0.86	-0.82	1	1	0	1200	1200	0
11/29/2024 18:32	40101	HUNT_T2	6	13	7	0.42	0.6	0.18	0	0	0	0	0	0	0	0
11/29/2024 18:32	66903	SHIL_T2	0	0	0	0	0	0	-1.67	-1.66	0	0	0	0	0	0
11/29/2024 18:33	53902	HALI_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
11/29/2024 18:33	53901	HALI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/29/2024 18:33	53903	HALI_T2	2	2	0	1.55	1.65	0.1	-0.07	-0.04	0	0	0	0	0	0
11/29/2024 18:33	63501	HEID_TBK1-2	62	80	18	0.43	0.39	-0.04	-0.45	-0.44	1	1	0	900	900	0
11/29/2024 18:33	61001	DONV_T1	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
11/29/2024 18:34	66505	SMAN_T2	3	3	0	1.3	1.37	0.07	0	0	0	0	0	0	0	0
11/29/2024 18:34	10101	ALLE_T3	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
11/29/2024 18:34	10105	ALLE_T3	12	8	-4	1.91	0	-1.91	0	0	0	0	0	0	0	0
11/29/2024 18:34	66504	SMAN_T2	0	0	0	0	0	0	-0.97	-0.94	0	0	0	0	0	0
11/29/2024 18:34	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 18:34	10205	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 18:34	39601	LNFD_T1	0	4	4	0	0	0	0	0	1	1	0	900	900	0
11/29/2024 18:34	66502	SMAN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
11/29/2024 18:34	10109	ALLE_T3	3	3	0	0.57	0	-0.57	0	0	0	0	0	0	0	0
11/29/2024 18:34	65401	MARI_T1	0	0	0	0	0	0	0.38	0.41	0	0	0	0	0	0
11/29/2024 18:34	63501	HEID_TBK1-2	62	80	18	0.43	0.39	-0.04	-0.45	-0.44	1	1	0	900	900	0
11/29/2024 18:36	65401	MARI_T1	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
11/29/2024 18:36	13905	SEID_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
11/29/2024 18:36	10705	CATA_T2	0	0	0	0	0	0	-0.86	-0.86	1	1	0	900	900	0
11/29/2024 18:36	45802	HEGI_T2	31	40	9	0.62	0.81	0.19	0	0	0	0	0	0	0	0
11/29/2024 18:36	13904	SEID_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/29/2024 18:36	66902	SHIL_T2	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
11/29/2024 18:37	53903	HALI_T2	2	2	0	1.55	1.65	0.1	-0.04	-0.08	0	0	0	0	0	0
11/29/2024 18:37	53902	HALI_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
11/29/2024 18:37	53901	HALI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/29/2024 18:37	22602	KIMB_T1	0	0	0	0	0	0	0.25	0.17	0	0	0	0	0	0
11/29/2024 18:37	63501	HEID_TBK1-2	62	80	18	0.43	0.39	-0.04	-0.44	0.47	1	0	-1	900	0	-900
11/29/2024 18:38	53903	HALI_T2	2	2	0	1.55	1.65	0.1	0	0	0	0	0	0	0	0
11/29/2024 18:38	65503	MOJO_T2	46	91	45	0.13	0.16	0.03	-0.48	-0.46	0	0	0	0	0	0
11/29/2024 18:38	65801	RTWN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 18:38	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 18:38	46506	LOHA_T1	3	3	0	2.17	2.23	0.06	0	0	0	0	0	0	0	0
11/29/2024 18:38	65804	RTWN_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
11/29/2024 18:38	41901	REED_T1	8	9	1	0.48	0.52	0.04	0	0	0	0	0	0	0	0
11/29/2024 18:38	66505	SMAN_T2	3	3	0	1.3	1.37	0.07	0	0	0	0	0	0	0	0
11/29/2024 18:38	66504	SMAN_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
11/29/2024 18:38	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
11/29/2024 18:38	65502	MOJO_T2	271	288	17	0.21	0.26	0.05	0	0	0	0	0	0	0	0
11/29/2024 18:38	40602	PIGR_T1	1	4	3	0.9	2.4	1.5	0	0	0	0	0	0	0	0
11/29/2024 18:38	53902	HALI_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
11/29/2024 18:38	40601	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/29/2024 18:38	61001	DONV_T1	0	0	0	0	0	0	-0.09	-0.06	0	0	0	0	0	0
11/29/2024 18:38	41902	REED_T1	0	1	1	0	0	0	0.25	0.26	1	1	0	900	900	0
11/29/2024 18:38	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 18:38	53901	HALI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/29/2024 18:38	67106	SPRI_T2	0	0	0	0	0	0	-1.31	-1.29	1	1	0	900	900	0
11/29/2024 18:39	64401	LAND_T1	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
11/29/2024 18:39	64702	LITI_T2	0	0	0	0	0	0	-0.91	-0.86	0	0	0	0	0	0
11/29/2024 18:39	64701	LITI_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
11/29/2024 18:39	46004	BERW_T2	0	4	4	0	0.5	0.5	-0.74	-0.72	0	0	0	0	0	0
11/29/2024 18:39	60902	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/29/2024 18:39	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 18:39	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 18:39	64101	REFR_T1	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
11/29/2024 18:40	65503	MOJO_T2	46	91	45	0.13	0.16	0.03	-0.48	-0.46	0	0	0	0	0	0
11/29/2024 18:40	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 18:40	65502	MOJO_T2	271	288	17	0.21	0.26	0.05	0	0	0	0	0	0	0	0
11/29/2024 18:40	41301	FISH_T1	2	2	0	1.1	1.2	0.1	-0.4	-0.41	0	0	0	0	0	0
11/29/2024 18:40	11202	ELHE_T2	0	0	0	0	0	0	0.42	0.39	1	1	0	1200	1200	0
11/29/2024 18:40	63602	LETO_T1	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
11/29/2024 18:40	41901	REED_T1	8	9	1	0.48	0.52	0.04	0	0	0	0	0	0	0	0
11/29/2024 18:40	20603	GRWO_T2	0	0	0	0	0	0	-0.55	-0.55	1	1	0	900	900	0
11/29/2024 18:40	41902	REED_T1	0	1	1	0	0	0	0.25	0.26	1	1	0	900	900	0
11/29/2024 18:40	45802	HEGI_T2	31	40	9	0.62	0.81	0.19	-0.45	-0.27	2	2	0	1800	1800	0
11/29/2024 18:40	65702	RVIL_T2	0	0	0	0	0	0	-1.11	-1.09	1	1	0	600	600	0
11/29/2024 18:40	47203	FAXO_T2	1	1	0	1.4	1.1	-0.3	-0.35	-0.34	0	0	0	0	0	0
11/29/2024 18:41	53903	HALI_T2	2	2	0	1.55	1.65	0.1	0	0	0	0	0	0	0	0
11/29/2024 18:41	45702	LIND_T2	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
11/29/2024 18:41	65001	NEFF_T2	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
11/29/2024 18:41	59302	MCAL_T1	2	1	-1	1	0.5	-0.5	0	0	0	0	0	0	0	0
11/29/2024 18:41	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/29/2024 18:41	65503	MOJO_T2	46	91	45	0.13	0.16	0.03	0	0	0	0	0	0	0	0
11/29/2024 18:41	65402	MARI_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
11/29/2024 18:41	65502	MOJO_T2	271	288	17	0.21	0.26	0.05	0	0	0	0	0	0	0	0
11/29/2024 18:41	53902	HALI_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
11/29/2024 18:41	53901	HALI_T2	1	1	0	0.2	0.5	0.3	-2.72	-2.72	0	0	0	0	0	0
11/29/2024 18:41	59301	MCAL_T1	2	2	0	0.9	0.9	0	-1.86	-1.88	1	1	0	600	600	0
11/29/2024 18:41	65702	RVIL_T2	0	0	0	0	0	0	-1.11	-1.09	1	1	0	600	600	0
11/29/2024 18:41	42504	ALTA_T2	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/29/2024 18:41	63305	GREE_T1	3	0	-3	0.1	0	-0.1	-1.55	-1.57	0	0	0	0	0	0
11/29/2024 18:41	66503	SMAN_T2	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
11/29/2024 18:41	67605	WARW_T1	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/29/2024 18:41	45701	LIND_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
11/29/2024 18:41	42501	ALTA_T2	0	0	0	0	0	0	0.01	0.05	1	1	0	600	600	0
11/29/2024 18:41	66505	SMAN_T2	3	3	0	1.3	1.37	0.07	0	0	0	0	0	0	0	0
11/29/2024 18:41	54201	PENN_T1	5	5	0	0.24	0.36	0.12	0	0	0	0	0	0	0	0
11/29/2024 18:41	54203	PENN_T1	18	18	0	0.75	0.89	0.14	-0.06	-0.07	0	0	0	0	0	0
11/29/2024 18:41	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/29/2024 18:42	65401	MARI_T1	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
11/29/2024 18:42	10705	CATA_T2	0	0	0	0	0	0	-0.86	-0.86	1	1	0	900	900	0
11/29/2024 18:42	40302	TAMA_T3	4	4	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
11/29/2024 18:42	53903	HALI_T2	2	2	0	1.55	1.65	0.1	0	0	0	0	0	0	0	0
11/29/2024 18:42	66505	SMAN_T2	3	3	0	1.3	1.37	0.07	0	0	0	0	0	0	0	0
11/29/2024 18:42	66504	SMAN_T2	0	0	0	0	0	0	-0.94	-0.92	0	0	0	0	0	0
11/29/2024 18:42	15103	UPHA_T2	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
11/29/2024 18:42	65603	QVIL_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
11/29/2024 18:42	63501	HEID_TBK1-2	62	80	18	0.43	0.39	-0.04	-0.44	0.47	1	0	-1	900	0	-900
11/29/2024 18:42	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 18:42	53901	HALI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/29/2024 18:42	40301	TAMA_T3	2	3	1	0.3	0.85	0.55	0	0	0	0	0	0	0	0
11/29/2024 18:42	42501	ALTA_T2	0	0	0	0	0	0	0.01	0.05	1	1	0	600	600	0
11/29/2024 18:42	53902	HALI_T2	1	1	0	5.8	5.9	0.1	-0.83	-0.82	0	0	0	0	0	0
11/29/2024 18:42	40303	TAMA_T3	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
11/29/2024 18:42	42504	ALTA_T2	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/29/2024 18:42	40101	HUNT_T2	6	13	7	0.42	0.6	0.18	-1.51	-1.5	0	0	0	0	0	0
11/29/2024 18:42	66502	SMAN_T2	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
11/29/2024 18:43	66502	SMAN_T2	0	0	0	0	0	0	-0.22	-0.18	0	0	0	0	0	0
11/29/2024 18:43	66505	SMAN_T2	3	3	0	1.3	1.37	0.07	0	0	0	0	0	0	0	0
11/29/2024 18:43	63305	GREE_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/29/2024 18:43	57401	SPAN_T1	0	0	0	0	0	0	-0.69	-0.7	1	1	0	600	600	0
11/29/2024 18:43	60902	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/29/2024 18:43	63306	GREE_T1	0	0	0	0	0	0	-1.42	-1.43	1	1	0	900	900	0
11/29/2024 18:43	66503	SMAN_T2	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
11/29/2024 18:43	45501	DERR_T2	0	1	1	0	0.2	0.2	0.26	0.24	1	1	0	600	600	0
11/29/2024 18:43	60903	DONG_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
11/29/2024 18:43	65702	RVIL_T2	0	0	0	0	0	0	-1.11	-1.09	1	1	0	600	600	0
11/29/2024 18:43	46004	BERW_T2	0	4	4	0	0.5	0.5	-0.74	-0.72	0	0	0	0	0	0
11/29/2024 18:44	53903	HALI_T2	2	2	0	1.55	1.65	0.1	0	0	0	0	0	0	0	0
11/29/2024 18:44	40101	HUNT_T2	6	13	7	0.42	0.6	0.18	-1.51	-1.5	0	0	0	0	0	0
11/29/2024 18:44	63602	LETO_T1	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
11/29/2024 18:44	65702	RVIL_T2	0	0	0	0	0	0	-2.22	-2.18	2	2	0	1200	1200	0
11/29/2024 18:44	10801	CHHI_T1	0	0	0	0	0	0	-1.44	-1.46	2	2	0	1500	1500	0
11/29/2024 18:44	10705	CATA_T2	0	0	0	0	0	0	-1.72	-1.71	2	2	0	1800	1800	0
11/29/2024 18:44	14602	SWHI_T1	0	1	1	0	0.1	0.1	0.21	0.19	0	0	0	0	0	0
11/29/2024 18:44	66502	SMAN_T2	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
11/29/2024 18:44	60301	TWVA_T2	0	0	0	0	0	0	-6.56	-6.64	4	4	0	3600	3600	0
11/29/2024 18:44	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/29/2024 18:44	53901	HALI_T2	1	1	0	0.2	0.5	0.3	-1.36	-1.36	0	0	0	0	0	0
11/29/2024 18:44	14605	SWHI_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 18:44	53902	HALI_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
11/29/2024 18:44	66505	SMAN_T2	3	3	0	1.3	1.37	0.07	0	0	0	0	0	0	0	0
11/29/2024 18:45	41901	REED_T1	9	9	0	0.51	0.44	-0.07	0	0	0	0	0	0	0	0
11/29/2024 18:45	54504	ENOL_T2	0	0	0	0	0	0	-1.01	-0.98	1	1	0	600	600	0
11/29/2024 18:45	60201	ATGL_T2	0	0	0	0	0	0	-0.16	-0.07	0	0	0	0	0	0
11/29/2024 18:45	42501	ALTA_T2	0	0	0	0	0	0	0.01	0.05	1	1	0	600	600	0
11/29/2024 18:45	54505	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/29/2024 18:45	66505	SMAN_T2	3	3	0	1.1	1.37	0.27	0	0	0	0	0	0	0	0
11/29/2024 18:45	45501	DERR_T2	0	1	1	0	0.5	0.5	0.26	0.24	1	1	0	600	600	0
11/29/2024 18:45	42504	ALTA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/29/2024 18:45	66504	SMAN_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
11/29/2024 18:45	41902	REED_T1	0	1	1	0	0	0	0.25	0.26	1	1	0	900	900	0
11/29/2024 18:46	10705	CATA_T2	0	0	0	0	0	0	-2.58	-2.57	3	3	0	2700	2700	0
11/29/2024 18:46	13101	NHAM_T1	0	0	0	0	0	0	-3.02	-2.95	2	2	0	2400	2400	0
11/29/2024 18:46	54602	SUMM_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/29/2024 18:46	66505	SMAN_T2	3	3	0	1.1	1.37	0.27	0	0	0	0	0	0	0	0
11/29/2024 18:46	43302	WATS_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/29/2024 18:46	66502	SMAN_T2	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
11/29/2024 18:46	43304	WATS_T2	0	1	1	0	0	0	-0.38	0.1	0	0	0	0	0	0
11/29/2024 18:46	54601	SUMM_T2	2	2	0	0.15	0.3	0.15	-4.04	-4.08	2	2	0	2100	2100	0
11/29/2024 18:46	65601	QVIL_T2	0	0	0	0	0	0	-1.09	-1.04	1	1	0	900	900	0
11/29/2024 18:46	46801	HEPB_T2	16	18	2	0.24	0.29	0.05	0.63	0.64	0	0	0	0	0	0
11/29/2024 18:46	58001	WCAR_T1	4	4	0	0.58	0.63	0.05	0	0	0	0	0	0	0	0
11/29/2024 18:46	46803	HEPB_T2	5	7	2	0.16	0.2	0.04	0	0	0	0	0	0	0	0
11/29/2024 18:46	57401	SPAN_T1	0	0	0	0	0	0	-0.69	-0.7	1	1	0	600	600	0
11/29/2024 18:46	58003	WCAR_T1	1	1	0	0.7	0.9	0.2	0.5	0.48	0	0	0	0	0	0
11/29/2024 18:47	46801	HEPB_T2	16	18	2	0.24	0.29	0.05	0	0	0	0	0	0	0	0
11/29/2024 18:47	63801	HEMP_T1	0	0	0	0	0	0	-0.36	-0.33	0	0	0	0	0	0
11/29/2024 18:47	66502	SMAN_T2	0	0	0	0	0	0	-0.22	-0.18	0	0	0	0	0	0
11/29/2024 18:47	65702	RVIL_T2	0	0	0	0	0	0	-1.11	-1.09	1	1	0	600	600	0
11/29/2024 18:47	66505	SMAN_T2	3	3	0	1.1	1.37	0.27	0	0	0	0	0	0	0	0
11/29/2024 18:47	66903	SHIL_T2	0	0	0	0	0	0	-1.66	-1.71	0	0	0	0	0	0
11/29/2024 18:47	67106	SPRI_T2	0	0	0	0	0	0	-1.31	-1.29	1	1	0	900	900	0
11/29/2024 18:47	60201	ATGL_T2	0	0	0	0	0	0	-0.16	-0.07	0	0	0	0	0	0
11/29/2024 18:47	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
11/29/2024 18:47	63501	HEID_TBK1-2	80	1	-79	0.39	0.6	0.21	-0.44	0.47	1	0	-1	900	0	-900
11/29/2024 18:47	61302	EARL_T1	0	0	0	0	0	0	-0.3	-0.29	2	2	0	1800	1800	0
11/29/2024 18:47	29301	DAPP_T1	1	1	0	9.4	9.4	0	0	0	1	1	0	600	600	0
11/29/2024 18:47	46803	HEPB_T2	5	7	2	0.16	0.2	0.04	0.37	0.37	0	0	0	0	0	0
11/29/2024 18:48	63501	HEID_TBK1-2	80	1	-79	0.39	0.6	0.21	-0.44	0.47	1	0	-1	900	0	-900
11/29/2024 18:48	54505	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/29/2024 18:48	63305	GREE_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
11/29/2024 18:48	53903	HALI_T2	2	2	0	1.6	1.65	0.05	0	0	0	0	0	0	0	0
11/29/2024 18:48	60803	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 18:48	63306	GREE_T1	0	0	0	0	0	0	-2.85	-2.87	2	2	0	1800	1800	0
11/29/2024 18:48	40703	FFLD_T1	4	4	0	0.88	0.9	0.02	0	0	0	0	0	0	0	0
11/29/2024 18:48	54601	SUMM_T2	2	2	0	0.15	0.3	0.15	-4.04	-4.08	2	2	0	2100	2100	0
11/29/2024 18:48	65702	RVIL_T2	0	0	0	0	0	0	-1.11	-1.09	1	1	0	600	600	0
11/29/2024 18:48	40701	FFLD_T1	68	72	4	0.69	0.73	0.04	0	0	0	0	0	0	0	0
11/29/2024 18:48	40702	FFLD_T1	203	223	20	0.75	0.77	0.02	-1.24	-1.18	1	1	0	1200	1200	0
11/29/2024 18:48	53901	HALI_T2	1	1	0	0.1	0.8	0.7	-1.36	-1.36	0	0	0	0	0	0
11/29/2024 18:48	53902	HALI_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
11/29/2024 18:48	65603	QVIL_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
11/29/2024 18:48	65401	MARI_T1	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
11/29/2024 18:48	54506	ENOL_T2	0	0	0	0	0	0	0.45	0.5	1	0	-1	600	0	-600
11/29/2024 18:48	54602	SUMM_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/29/2024 18:49	59003	MIFF_T1	0	0	0	0	0	0	-0.46	-0.63	0	0	0	0	0	0
11/29/2024 18:49	67402	WAKE_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
11/29/2024 18:50	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 18:50	57205	ROSS_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
11/29/2024 18:50	54602	SUMM_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/29/2024 18:50	54601	SUMM_T2	2	2	0	0.15	0.3	0.15	-4.04	-4.08	2	2	0	2100	2100	0
11/29/2024 18:50	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/29/2024 18:50	64101	RERR_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
11/29/2024 18:50	66505	SMAN_T2	3	3	0	1.1	1.37	0.27	0	0	0	0	0	0	0	0
11/29/2024 18:51	54603	SUMM_T2	0	0	0	0	0	0	-0.48	-0.46	1	1	0	900	900	0
11/29/2024 18:51	55101	WERT_T1	0	0	0	0	0	0	-1.07	-1.07	1	1	0	600	600	0
11/29/2024 18:51	54601	SUMM_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
11/29/2024 18:51	44902	SCOT_T2	1	1	0	0.5	0	-0.5	-0.95	-0.94	0	0	0	0	0	0
11/29/2024 18:51	42601	TUSC_T1	0	0	0	0	0	0	-0.47	-0.51	1	1	0	1200	1200	0
11/29/2024 18:51	54602	SUMM_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/29/2024 18:52	53901	HALI_T2	1	1	0	0.1	0.8	0.7	-2.72	-2.64	0	0	0	0	0	0
11/29/2024 18:52	54206	PENN_T2	0	0	0	0	0	0	-0.07	-0.03	0	0	0	0	0	0
11/29/2024 18:52	45702	LIND_T2	1	1	0	1.4	1.5	0.1	-0.5	-0.53	0	0	0	0	0	0
11/29/2024 18:52	53902	HALI_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
11/29/2024 18:52	18001	ZION_T1	2	2	0	8.9	8.85	-0.05	0	0	0	0	0	0	0	0
11/29/2024 18:52	65503	MOJO_T2	89	50	-39	0.15	0.15	0	0	0	0	0	0	0	0	0
11/29/2024 18:52	64701	LITI_T1	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
11/29/2024 18:52	53903	HALI_T2	2	2	0	1.6	1.65	0.05	0	0	0	0	0	0	0	0
11/29/2024 18:52	10705	CATA_T2	0	0	0	0	0	0	-0.86	-0.85	1	1	0	900	900	0
11/29/2024 18:52	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 18:52	67402	WAKE_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
11/29/2024 18:52	65502	MOJO_T2	285	282	-3	0.26	0.23	-0.03	-1.11	-1.19	0	0	0	0	0	0
11/29/2024 18:53	40701	FFLD_T1	68	72	4	0.69	0.73	0.04	0	0	0	0	0	0	0	0
11/29/2024 18:53	58302	NOTT_T1	0	0	0	0	0	0	-0.76	-0.73	1	1	0	900	900	0
11/29/2024 18:53	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/29/2024 18:53	40702	FFLD_T1	203	223	20	0.75	0.77	0.02	0	0	0	0	0	0	0	0
11/29/2024 18:53	40101	HUNT_T2	3	17	14	0.6	0.54	-0.06	-1.5	-1.53	0	0	0	0	0	0
11/29/2024 18:53	64702	LITI_T2	0	0	0	0	0	0	-0.86	-0.9	0	0	0	0	0	0
11/29/2024 18:53	40703	FFLD_T1	4	4	0	0.88	0.9	0.02	0	0	0	0	0	0	0	0
11/29/2024 18:54	54505	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/29/2024 18:54	67401	WAKE_T2	0	0	0	0	0	0	-1.11	-1.12	0	0	0	0	0	0
11/29/2024 18:54	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-0.99	1	1	0	600	600	0
11/29/2024 18:54	65503	MOJO_T2	89	50	-39	0.15	0.15	0	0	0	0	0	0	0	0	0
11/29/2024 18:54	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 18:54	64704	LITI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 18:54	65502	MOJO_T2	285	282	-3	0.26	0.23	-0.03	-1.11	-1.19	0	0	0	0	0	0
11/29/2024 18:55	42504	ALTA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/29/2024 18:55	65503	MOJO_T2	89	50	-39	0.15	0.15	0	0	0	0	0	0	0	0	0
11/29/2024 18:55	58401	MORO_T1	1	1	0	0.8	0.1	-0.7	-0.88	-0.94	1	1	0	600	600	0
11/29/2024 18:55	65502	MOJO_T2	285	282	-3	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
11/29/2024 18:55	57401	SPAN_T1	0	0	0	0	0	0	-0.7	-0.73	1	1	0	600	600	0
11/29/2024 18:55	42504	ALTA_T2	0	0	0	0	0	0	0.05	0	1	1	0	600	600	0
11/29/2024 18:55	67401	WAKE_T2	0	0	0	0	0	0	-1.11	-1.12	0	0	0	0	0	0
11/29/2024 18:55	65603	QVIL_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
11/29/2024 18:55	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 18:56	44301	BEAV_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
11/29/2024 18:56	58202	NEWV_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
11/29/2024 18:56	54603	SUMM_T2	0	0	0	0	0	0	-0.46	-0.49	1	1	0	900	900	0
11/29/2024 18:56	54602	SUMM_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/29/2024 18:56	57201	ROSS_T1	0	0	0	0	0	0	-1.11	-1.11	0	0	0	0	0	0
11/29/2024 18:56	51201	MTON_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 18:56	54601	SUMM_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
11/29/2024 18:57	64203	KINZ_T1	0	0	0	0	0	0	-0.4	-0.41	1	1	0	600	600	0
11/29/2024 18:57	54601	SUMM_T2	2	2	0	0.15	0.3	0.15	-4.08	-4.1	2	2	0	2100	2100	0
11/29/2024 18:57	57401	SPAN_T1	0	0	0	0	0	0	-0.7	-0.73	1	1	0	600	600	0
11/29/2024 18:57	53902	HALI_T2	1	1	0	5.9	5.8	-0.1	-0.82	-0.82	0	0	0	0	0	0
11/29/2024 18:57	54602	SUMM_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
11/29/2024 18:57	63801	HEMP_T1	0	0	0	0	0	0	-0.33	-0.25	0	0	0	0	0	0
11/29/2024 18:57	65603	QVIL_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
11/29/2024 18:57	53901	HALI_T2	1	1	0	0.1	0.8	0.7	-1.36	-1.32	0	0	0	0	0	0
11/29/2024 18:57	64204	KINZ_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
11/29/2024 18:57	53903	HALI_T2	2	2	0	1.6	1.65	0.05	0	0	0	0	0	0	0	0
11/29/2024 18:57	64201	KINZ_T1	1	4	3	0.8	0.33	-0.47	0	0	0	0	0	0	0	0
11/29/2024 18:57	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
11/29/2024 18:58	53903	HALI_T2	2	2	0	1.6	1.65	0.05	0	0	0	0	0	0	0	0
11/29/2024 18:58	53901	HALI_T2	1	1	0	0.1	0.8	0.7	-1.36	-1.32	0	0	0	0	0	0
11/29/2024 18:58	58401	MORO_T1	1	1	0	0.8	0.1	-0.7	-0.88	-0.94	1	1	0	600	600	0
11/29/2024 18:58	53902	HALI_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
11/29/2024 18:58	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 18:59	55002	NEWP_T1	4	4	0	0.55	0.85	0.3	-0.21	-0.2	0	0	0	0	0	0
11/29/2024 18:59	52401	GRPA_T2	4	1	-3	0.18	0.2	0.02	0	0	0	0	0	0	0	0
11/29/2024 18:59	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 18:59	52402	GRPA_T2	15	11	-4	0.73	0.4	-0.33	-0.92	-0.96	0	0	0	0	0	0
11/29/2024 19:00	54601	SUMM_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
11/29/2024 19:00	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 19:00	54602	SUMM_T2	2	10	8	0.1	0.22	0.12	0	0	1	1	0	600	600	0
11/29/2024 19:01	55001	NEWP_T1	0	0	0	0	0	0	-0.23	-0.18	0	0	0	0	0	0
11/29/2024 19:01	55002	NEWP_T1	4	4	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
11/29/2024 19:01	53901	HALI_T2	1	2	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
11/29/2024 19:01	53903	HALI_T2	2	3	1	1.65	1.17	-0.48	-0.08	-0.06	0	0	0	0	0	0
11/29/2024 19:01	53902	HALI_T2	1	1	0	5.4	5.8	0.4	0	0	0	0	0	0	0	0
11/29/2024 19:04	64904	MILL_T1	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
11/29/2024 19:07	60903	DONG_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
11/29/2024 19:19	57401	SPAN_T1	0	0	0	0	0	0	-0.73	-0.7	1	1	0	600	600	0
11/29/2024 19:48	10705	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/29/2024 19:48	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/29/2024 20:08	12005	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/29/2024 20:08	12006	HATF_T1	0	2	2	0	0	0	0.02	0.11	0	0	0	0	0	0
11/29/2024 21:44	52403	GRPA_T2	0	0	0	0	0	0	-0.19	-0.15	0	0	0	0	0	0
11/29/2024 21:44	52402	GRPA_T2	4	4	0	0.73	0.78	0.05	0	0	0	0	0	0	0	0
11/29/2024 23:40	57401	SPAN_T1	1	2	1	0.1	0.15	0.05	-0.74	-0.81	1	1	0	600	600	0
11/30/2024 7:38	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 7:38	66505	SMAN_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
11/30/2024 7:56	46203	DANV_T2	0	0	0	0	0	0	-1.77	-1.78	0	0	0	0	0	0
11/30/2024 8:00	53501	EVIL_T2	2	2	0	0.15	0.55	0.4	-0.56	-0.56	0	0	0	0	0	0
11/30/2024 8:04	52502	PROG_T2	0	0	0	0	0	0	-0.72	-0.68	2	2	0	1800	1800	0
11/30/2024 8:10	45501	DERR_T2	2	0	-2	0.3	0	-0.3	0.45	0.41	1	1	0	600	600	0
11/30/2024 8:10	45502	DERR_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/30/2024 8:14	16101	BING_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
11/30/2024 8:20	41902	REED_T1	25	12	-13	0.81	0.15	-0.66	1	0.97	0	0	0	0	0	0
11/30/2024 8:20	41901	REED_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/30/2024 8:21	46302	ROHR_T1	2	0	-2	0.5	0	-0.5	-0.35	-0.38	0	0	0	0	0	0
11/30/2024 8:21	46301	ROHR_T1	4	7	3	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
11/30/2024 8:22	43304	WATS_T2	1	0	-1	0.2	0	-0.2	-0.51	-0.53	0	0	0	0	0	0
11/30/2024 8:29	45501	DERR_T2	0	0	0	0	0	0	0.41	0.43	1	1	0	600	600	0
11/30/2024 8:31	45701	LIND_T2	0	0	0	0	0	0	-1.73	-1.73	0	0	0	0	0	0
11/30/2024 8:32	12006	HATF_T1	2	2	0	1.1	0.4	-0.7	0.02	0	0	0	0	0	0	0
11/30/2024 8:37	52502	PROG_T2	0	0	0	0	0	0	-0.34	-0.37	1	1	0	900	900	0
11/30/2024 8:44	26402	INOR_T1	0	0	0	0	0	0	-1.98	-1.93	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/30/2024 8:44	26401	INOR_T1	1	8	7	4.8	1.7	-3.1	0	0	0	0	0	0	0	0
11/30/2024 8:46	64402	LAND_T2	0	0	0	0	0	0	-0.45	-0.46	1	1	0	600	600	0
11/30/2024 8:49	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 8:51	67702	WERN_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
11/30/2024 8:51	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 8:52	14601	SWHI_T1	0	0	0	0	0	0	-1.44	-1.4	0	0	0	0	0	0
11/30/2024 8:53	67702	WERN_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
11/30/2024 8:53	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 8:54	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 8:54	67702	WERN_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
11/30/2024 8:55	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 8:55	67702	WERN_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
11/30/2024 8:58	44301	BEAV_T2	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
11/30/2024 9:00	45702	LIND_T2	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
11/30/2024 9:00	64203	KINZ_T1	0	0	0	0	0	0	-0.29	-0.32	1	1	0	600	600	0
11/30/2024 9:00	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
11/30/2024 9:00	42501	ALTA_T2	0	0	0	0	0	0	0	-0.03	1	1	0	600	600	0
11/30/2024 9:00	59202	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
11/30/2024 9:00	64204	KINZ_T1	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
11/30/2024 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
11/30/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.39	0.33	0	0	0	0	0	0
11/30/2024 9:00	67503	WEWI_T2	1	1	0	5.7	5.8	0.1	-0.57	-0.56	0	0	0	0	0	0
11/30/2024 9:05	63202	MGTN_T2	0	0	0	0	0	0	-0.91	-0.89	0	0	0	0	0	0
11/30/2024 9:07	52502	PROG_T2	0	0	0	0	0	0	-0.42	0.54	1	0	-1	900	0	-900
11/30/2024 9:07	53901	HALI_T2	1	0	-1	0.1	0	-0.1	-1.34	-1.36	0	0	0	0	0	0
11/30/2024 9:07	53902	HALI_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
11/30/2024 9:07	53903	HALI_T2	2	2	0	0.65	0.8	0.15	0	0	0	0	0	0	0	0
11/30/2024 9:08	67201	TEHI_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
11/30/2024 9:08	43304	WATS_T2	0	2	2	0	0	0	-0.53	-0.53	0	0	0	0	0	0
11/30/2024 9:08	52502	PROG_T2	0	0	0	0	0	0	-0.42	0.54	1	0	-1	900	0	-900
11/30/2024 9:09	52502	PROG_T2	0	0	0	0	0	0	-0.42	0.54	1	0	-1	900	0	-900
11/30/2024 9:12	45501	DERR_T2	0	0	0	0	0	0	0.4	0.37	1	1	0	600	600	0
11/30/2024 9:13	45501	DERR_T2	0	0	0	0	0	0	0.4	0.37	1	1	0	600	600	0
11/30/2024 9:14	12006	HATF_T1	2	2	0	0.55	0.4	-0.15	0.06	0.02	0	0	0	0	0	0
11/30/2024 9:14	63501	HEID_TBK1-2	24	34	10	0.2	0.24	0.04	-1.14	-1.26	3	3	0	2700	2700	0
11/30/2024 9:14	44301	BEAV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
11/30/2024 9:15	54506	ENOL_T2	0	0	0	0	0	0	0.29	0.27	1	1	0	600	600	0
11/30/2024 9:15	45501	DERR_T2	0	0	0	0	0	0	0.4	0.37	1	1	0	600	600	0
11/30/2024 9:15	65401	MARI_T1	0	0	0	0	0	0	0.4	0.44	0	0	0	0	0	0
11/30/2024 9:15	63501	HEID_TBK1-2	21	38	17	0.21	0.41	0.2	-0.38	-0.42	1	1	0	900	900	0
11/30/2024 9:17	65401	MARI_T1	0	0	0	0	0	0	0.4	0.44	0	0	0	0	0	0
11/30/2024 9:17	64402	LAND_T2	0	0	0	0	0	0	-0.44	-0.41	1	1	0	600	600	0
11/30/2024 9:18	65401	MARI_T1	0	0	0	0	0	0	0.4	0.44	0	0	0	0	0	0
11/30/2024 9:18	45701	LIND_T2	0	0	0	0	0	0	-1.72	-1.74	0	0	0	0	0	0
11/30/2024 9:19	65401	MARI_T1	0	0	0	0	0	0	0.4	0.44	0	0	0	0	0	0
11/30/2024 9:20	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 9:20	45702	LIND_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
11/30/2024 9:22	49804	UNIV_T1	1	2	1	0.1	0	-0.1	0.55	0.52	0	0	0	0	0	0
11/30/2024 9:22	49803	UNIV_T1	1	1	0	6.8	6.5	-0.3	0	0	0	0	0	0	0	0
11/30/2024 9:24	14403	SSLA_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
11/30/2024 9:25	42701	AUGU_T1	1	1	0	0.3	0.7	0.4	0	0	2	2	0	1800	1800	0
11/30/2024 9:30	67605	WARW_T1	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
11/30/2024 9:30	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/30/2024 9:31	64204	KINZ_T1	3	9	6	0.57	0.37	-0.2	0	0	0	0	0	0	0	0
11/30/2024 9:31	64201	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/30/2024 9:31	64202	KINZ_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
11/30/2024 9:33	41901	REED_T1	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
11/30/2024 9:33	64204	KINZ_T1	3	9	6	0.57	0.37	-0.2	0	0	0	0	0	0	0	0
11/30/2024 9:33	64202	KINZ_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
11/30/2024 9:33	64201	KINZ_T1	0	1	1	0	0.2	0.2	-1.68	-1.56	6	6	0	3000	3000	0
11/30/2024 9:33	41902	REED_T1	1	2	1	0.5	0.25	-0.25	1	0.97	0	0	0	0	0	0
11/30/2024 9:35	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 9:36	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 9:37	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 9:39	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 9:43	20403	ASHF_T2	0	0	0	0	0	0	0.63	0.66	0	0	0	0	0	0
11/30/2024 9:45	63602	LETO_T1	1	0	-1	8.4	0	-8.4	0	0	0	0	0	0	0	0
11/30/2024 9:45	63601	LETO_T1	5	5	0	0.4	0.68	0.28	0.29	0.43	1	1	0	900	900	0
11/30/2024 9:46	63601	LETO_T1	5	5	0	0.4	0.68	0.28	0.29	0.43	1	1	0	900	900	0
11/30/2024 9:46	63501	HEID_TBK1-2	37	38	1	0.42	0.41	-0.01	-0.41	-0.45	1	1	0	900	900	0
11/30/2024 9:46	63602	LETO_T1	1	0	-1	8.4	0	-8.4	0	0	0	0	0	0	0	0
11/30/2024 9:48	63501	HEID_TBK1-2	37	38	1	0.42	0.41	-0.01	-0.41	-0.45	1	1	0	900	900	0
11/30/2024 9:50	43202	MVIL_T2	2	1	-1	0.8	1.4	0.6	-0.64	-0.64	0	0	0	0	0	0
11/30/2024 9:51	43202	MVIL_T2	2	1	-1	0.8	1.4	0.6	-0.64	-0.64	0	0	0	0	0	0
11/30/2024 9:56	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 9:56	11104	EGYP_T1	1	0	-1	0.3	0	-0.3	0.34	0.33	0	0	0	0	0	0
11/30/2024 9:58	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 9:58	11104	EGYP_T1	1	0	-1	0.3	0	-0.3	0.34	0.33	0	0	0	0	0	0
11/30/2024 10:00	64204	KINZ_T1	2	24	22	0.7	0.34	-0.36	0	0	0	0	0	0	0	0
11/30/2024 10:00	64201	KINZ_T1	1	1	0	0.2	0.4	0.2	-0.82	-0.91	3	3	0	1500	1500	0
11/30/2024 10:02	25501	MADI_T1	169	153	-16	0.52	0.55	0.03	0	0	0	0	0	0	0	0
11/30/2024 10:02	25503	MADI_T1	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
11/30/2024 10:03	64101	REFR_T1	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
11/30/2024 10:03	64204	KINZ_T1	2	24	22	0.7	0.34	-0.36	0	0	0	0	0	0	0	0
11/30/2024 10:03	64201	KINZ_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/30/2024 10:06	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
11/30/2024 10:07	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
11/30/2024 10:08	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
11/30/2024 10:10	10801	CHHI_T1	2	2	0	0.2	0.4	0.2	-1.47	-1.41	2	2	0	1500	1500	0
11/30/2024 10:13	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
11/30/2024 10:16	40101	HUNT_T2	58	116	58	0.44	0.41	-0.03	-1.5	-1.51	0	0	0	0	0	0
11/30/2024 10:17	58202	NEWV_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
11/30/2024 10:17	58201	NEWV_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
11/30/2024 10:17	40101	HUNT_T2	58	116	58	0.44	0.41	-0.03	-1.5	-1.51	0	0	0	0	0	0
11/30/2024 10:18	40101	HUNT_T2	58	116	58	0.44	0.41	-0.03	-1.5	-1.51	0	0	0	0	0	0
11/30/2024 10:19	65205	PRIN_T1	3	1	-2	1.8	1.9	0.1	0	0	0	0	0	0	0	0
11/30/2024 10:19	65202	PRIN_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
11/30/2024 10:26	58003	WCAR_T1	1	1	0	1.1	1.3	0.2	-0.15	-0.14	1	1	0	600	600	0
11/30/2024 10:26	58001	WCAR_T1	4	4	0	0.48	0.8	0.32	0	0	0	0	0	0	0	0
11/30/2024 10:27	60801	BUCK_T1	0	2	2	0	0.35	0.35	-0.83	-0.86	1	1	0	600	600	0
11/30/2024 10:27	60803	BUCK_T1	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
11/30/2024 10:28	10805	CHHI_T2	1	1	0	7.7	7.4	-0.3	-1.18	-1.19	1	1	0	600	600	0
11/30/2024 10:30	10801	CHHI_T1	2	5	3	0.35	0.28	-0.07	-1.41	-1.41	2	2	0	1500	1500	0
11/30/2024 10:34	55001	NEWP_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
11/30/2024 10:34	55002	NEWP_T1	3	3	0	0.8	0.9	0.1	-0.17	-0.15	0	0	0	0	0	0
11/30/2024 10:38	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 10:38	61305	EARL_T1	0	0	0	0	0	0	-0.23	-0.23	1	1	0	600	600	0
11/30/2024 10:38	61302	EARL_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
11/30/2024 10:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 10:49	66203	SISP_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/30/2024 10:49	66202	SISP_T2	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
11/30/2024 10:52	58201	NEWV_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
11/30/2024 10:52	58202	NEWV_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
11/30/2024 10:53	42503	ALTA_T2	0	0	0	0	0	0	-0.66	-0.63	0	0	0	0	0	0
11/30/2024 10:56	60101	COCA_T1	0	1	1	0	0.2	0.2	0.82	0.84	0	0	0	0	0	0
11/30/2024 10:56	55001	NEWP_T1	1	1	0	0.6	0.6	0	-0.88	-0.91	1	1	0	600	600	0
11/30/2024 10:56	55002	NEWP_T1	2	3	1	1.15	0.67	-0.48	0	0	0	0	0	0	0	0
11/30/2024 10:58	22903	HARW_T1	32	38	6	1.61	1.32	-0.29	0.12	0.1	0	0	0	0	0	0
11/30/2024 10:58	22905	HARW_T1	40	52	12	0.58	0.53	-0.05	0	0	0	0	0	0	0	0
11/30/2024 10:58	60101	COCA_T1	0	1	1	0	0.2	0.2	1.22	1.26	0	0	0	0	0	0
11/30/2024 10:58	22901	HARW_T1	9	20	11	0.89	0.34	-0.55	-1.83	-1.83	1	1	0	1200	1200	0
11/30/2024 10:58	22906	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 10:59	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 10:59	40701	FFLD_T1	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/30/2024 10:59	40702	FFLD_T1	2	4	2	0.1	0.13	0.03	-1.24	-1.27	1	1	0	1200	1200	0
11/30/2024 11:01	63803	HEMP_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/30/2024 11:01	63804	HEMP_T1	1	2	1	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
11/30/2024 11:01	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 11:01	63801	HEMP_T1	1	3	2	0.5	0.37	-0.13	0.01	-0.07	0	0	0	0	0	0
11/30/2024 11:01	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/30/2024 11:02	63801	HEMP_T1	1	3	2	0.5	0.37	-0.13	0.01	-0.07	0	0	0	0	0	0
11/30/2024 11:02	63804	HEMP_T1	1	2	1	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
11/30/2024 11:02	63803	HEMP_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
11/30/2024 11:02	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/30/2024 11:06	57401	SPAN_T1	0	1	1	0	0.1	0.1	-1.08	-1.11	1	1	0	600	600	0
11/30/2024 11:07	57401	SPAN_T1	0	1	1	0	0.1	0.1	-2.22	-1.94	2	2	0	1200	1200	0
11/30/2024 11:08	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 11:08	13901	SEID_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
11/30/2024 11:08	13904	SEID_T1	6	12	6	0.25	0.33	0.08	0	0	0	0	0	0	0	0
11/30/2024 11:08	57401	SPAN_T1	0	1	1	0	0.1	0.1	-2.22	-1.94	2	2	0	1200	1200	0
11/30/2024 11:08	67702	WERN_T2	2	1	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
11/30/2024 11:10	57401	SPAN_T1	0	1	1	0	0.1	0.1	-2.22	-1.94	2	2	0	1200	1200	0
11/30/2024 11:13	45802	HEGI_T2	13	9	-4	0.52	0.24	-0.28	0	0	0	0	0	0	0	0
11/30/2024 11:15	40701	FFLD_T1	3	12	9	0.1	0.16	0.06	0	0	0	0	0	0	0	0
11/30/2024 11:15	46801	HEPB_T2	0	2	2	0	0.4	0.4	0.6	0.6	0	0	0	0	0	0
11/30/2024 11:15	40702	FFLD_T1	4	15	11	0.13	0.17	0.04	0	0	0	0	0	0	0	0
11/30/2024 11:18	64204	KINZ_T1	58	64	6	0.39	0.63	0.24	0	0	0	0	0	0	0	0
11/30/2024 11:18	64203	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/30/2024 11:18	64202	KINZ_T1	0	1	1	0	0.2	0.2	0.66	0.65	0	0	0	0	0	0
11/30/2024 11:18	64201	KINZ_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
11/30/2024 11:19	63305	GREE_T1	2	3	1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
11/30/2024 11:19	63302	GREE_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
11/30/2024 11:19	58401	MORO_T1	0	0	0	0	0	0	-1.01	-1.02	1	1	0	600	600	0
11/30/2024 11:19	63306	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/30/2024 11:20	58401	MORO_T1	0	0	0	0	0	0	-1.01	-1.02	1	1	0	600	600	0
11/30/2024 11:21	66504	SMAN_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
11/30/2024 11:22	67402	WAKE_T2	0	0	0	0	0	0	-0.37	-0.36	1	1	0	600	600	0
11/30/2024 11:24	60101	COCA_T1	1	1	0	0.2	0.5	0.3	0.38	0.39	0	0	0	0	0	0
11/30/2024 11:25	28602	BLYT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 11:27	60101	COCA_T1	1	1	0	0.2	0.5	0.3	0.38	0.39	0	0	0	0	0	0
11/30/2024 11:28	60101	COCA_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
11/30/2024 11:28	60102	COCA_T1	0	0	0	0	0	0	-0.81	-0.74	2	2	0	1200	1200	0
11/30/2024 11:29	60101	COCA_T1	1	1	0	0.2	0.5	0.3	0.38	0.39	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/30/2024 11:32	11401	FARM_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/30/2024 11:32	11403	FARM_T1	0	0	0	0	0	0	-0.21	-0.21	1	1	0	600	600	0
11/30/2024 11:32	11405	FARM_T1	17	28	11	0.14	0.16	0.02	0	0	0	0	0	0	0	0
11/30/2024 11:32	11402	FARM_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/30/2024 11:38	55002	NEWP_T1	4	3	-1	0.8	1.43	0.63	-0.17	-0.18	0	0	0	0	0	0
11/30/2024 11:38	55001	NEWP_T1	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
11/30/2024 11:39	42701	AUGU_T1	1	1	0	0.4	0.5	0.1	0	0	2	2	0	1800	1800	0
11/30/2024 11:41	42701	AUGU_T1	1	1	0	0.4	0.5	0.1	0	0	2	2	0	1800	1800	0
11/30/2024 11:42	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 11:44	40101	HUNT_T2	50	93	43	0.55	0.38	-0.17	-1.46	-1.36	0	0	0	0	0	0
11/30/2024 11:50	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 11:50	44202	POIN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/30/2024 11:51	44201	POIN_T1	49	59	10	0.19	0.19	0	-2	-2.05	1	1	0	1200	1200	0
11/30/2024 11:52	44201	POIN_T1	49	59	10	0.19	0.19	0	-2.05	-2.12	1	1	0	1200	1200	0
11/30/2024 11:59	20603	GRWO_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 11:59	20601	GRWO_T2	0	0	0	0	0	0	-0.17	-0.24	0	0	0	0	0	0
11/30/2024 12:02	22903	HARW_T1	54	49	-5	1.53	1.52	-0.01	0.16	0.11	0	0	0	0	0	0
11/30/2024 12:02	22901	HARW_T1	13	18	5	0.62	0.55	-0.07	0	0	0	0	0	0	0	0
11/30/2024 12:02	22906	HARW_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
11/30/2024 12:02	22904	HARW_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
11/30/2024 12:02	22905	HARW_T1	47	71	24	0.72	0.67	-0.05	0	0	0	0	0	0	0	0
11/30/2024 12:05	41902	REED_T1	10	9	-1	0.68	0	-0.68	0.97	0.96	0	0	0	0	0	0
11/30/2024 12:05	41901	REED_T1	2	3	1	0.1	0.23	0.13	0	0	0	0	0	0	0	0
11/30/2024 12:05	44201	POIN_T1	58	75	17	0.19	0.21	0.02	-2.05	-2.12	1	1	0	1200	1200	0
11/30/2024 12:06	44202	POIN_T2	0	1	1	0	0.2	0.2	-0.9	-0.89	1	1	0	1200	1200	0
11/30/2024 12:06	44201	POIN_T1	58	75	17	0.19	0.21	0.02	-4.1	-4.24	2	2	0	2400	2400	0
11/30/2024 12:08	41901	REED_T1	2	3	1	0.1	0.23	0.13	0	0	0	0	0	0	0	0
11/30/2024 12:08	44203	POIN_T2	0	0	0	0	0	0	-0.85	-0.78	2	2	0	2100	2100	0
11/30/2024 12:08	44202	POIN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
11/30/2024 12:08	41902	REED_T1	10	9	-1	0.68	0	-0.68	0.96	0.94	0	0	0	0	0	0
11/30/2024 12:09	42701	AUGU_T1	1	1	0	0.4	0.7	0.3	0	0	2	2	0	1800	1800	0
11/30/2024 12:09	44201	POIN_T1	58	75	17	0.19	0.21	0.02	-2.12	-2.09	1	1	0	1200	1200	0
11/30/2024 12:13	53901	HALI_T2	1	1	0	0.4	0.3	-0.1	-1.4	-1.38	0	0	0	0	0	0
11/30/2024 12:13	53902	HALI_T2	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
11/30/2024 12:13	53903	HALI_T2	2	3	1	0.85	0.87	0.02	0	0	0	0	0	0	0	0
11/30/2024 12:15	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 12:15	52402	GRPA_T2	1	4	3	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
11/30/2024 12:15	52403	GRPA_T2	12	37	25	0.83	0.46	-0.37	-0.15	-0.17	0	0	0	0	0	0
11/30/2024 12:22	14402	SSLA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/30/2024 12:22	14401	SSLA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
11/30/2024 12:22	14403	SSLA_T1	3	2	-1	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
11/30/2024 12:25	61304	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
11/30/2024 12:25	61302	EARL_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
11/30/2024 12:25	61303	EARL_T1	0	0	0	0	0	0	-0.09	-0.16	0	0	0	0	0	0
11/30/2024 12:28	44201	BEAV_T2	1	3	2	0.2	0.25	0.05	0	0	1	1	0	600	600	0
11/30/2024 12:32	20603	GRWO_T2	0	6	6	0	0	0	-0.5	-0.51	1	1	0	900	900	0
11/30/2024 12:52	52501	PROG_T1	3	8	5	0.37	0.3	-0.07	-0.51	-0.56	0	0	0	0	0	0
11/30/2024 12:53	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
11/30/2024 12:54	52501	PROG_T1	3	8	5	0.37	0.3	-0.07	-1.02	-1.11	0	0	0	0	0	0
11/30/2024 12:56	52501	PROG_T1	3	8	5	0.37	0.3	-0.07	-0.51	-0.56	0	0	0	0	0	0
11/30/2024 12:57	51204	MTON_T2	0	0	0	0	0	0	-1.45	-1.45	2	2	0	1500	1500	0
11/30/2024 13:00	24702	FLND_T2	6	6	0	1	0.97	-0.03	-0.45	-0.33	1	1	0	1200	1200	0
11/30/2024 13:00	22905	HARW_T1	55	68	13	0.82	0.91	0.09	-0.31	-0.29	0	0	0	0	0	0
11/30/2024 13:00	22903	HARW_T1	52	49	-3	1.45	1.8	0.35	0	0	0	0	0	0	0	0
11/30/2024 13:00	63601	LETO_T1	5	5	0	0.78	0.64	-0.14	0.31	0.4	1	1	0	900	900	0
11/30/2024 13:00	22901	HARW_T1	11	21	10	0.54	0.36	-0.18	0	0	0	0	0	0	0	0
11/30/2024 13:00	22906	HARW_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
11/30/2024 13:01	63501	HEID_TBK1-2	29	35	6	0.21	0.29	0.08	-0.37	-0.41	1	1	0	900	900	0
11/30/2024 13:03	53901	HALI_T2	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
11/30/2024 13:03	53902	HALI_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
11/30/2024 13:03	53903	HALI_T2	3	3	0	1.1	1.1	0	-0.09	-0.08	0	0	0	0	0	0
11/30/2024 13:05	58202	NEWV_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
11/30/2024 13:09	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
11/30/2024 13:22	44501	HAMI_T2	23	25	2	0.19	0.25	0.06	0	0	0	0	0	0	0	0
11/30/2024 13:22	44503	HAMI_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
11/30/2024 13:22	44505	HAMI_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
11/30/2024 13:22	44502	HAMI_T2	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
11/30/2024 13:24	44201	POIN_T1	44	77	33	0.19	0.21	0.02	-2.05	-2.1	1	1	0	1200	1200	0
11/30/2024 13:27	46203	DANV_T2	0	0	0	0	0	0	-1.75	-1.78	0	0	0	0	0	0
11/30/2024 13:28	46203	DANV_T2	0	0	0	0	0	0	-1.75	-1.78	0	0	0	0	0	0
11/30/2024 13:35	41902	REED_T1	3	0	-3	0.23	0	-0.23	1	0.99	0	0	0	0	0	0
11/30/2024 13:35	41901	REED_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
11/30/2024 13:36	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 13:36	14603	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 13:40	14601	SWHI_T1	0	0	0	0	0	0	-1.45	-1.48	0	0	0	0	0	0
11/30/2024 13:40	14603	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 13:47	63601	LETO_T1	5	5	0	0.42	0.58	0.16	0.4	0.38	1	1	0	900	900	0
11/30/2024 13:59	63501	HEID_TBK1-2	10	6	-4	0.13	0.18	0.05	-0.44	-0.42	1	1	0	900	900	0
11/30/2024 14:06	43203	MVIL_T2	0	0	0	0	0	0	-1.28	-1.29	0	0	0	0	0	0
11/30/2024 14:08	55105	WERT_T1	0	0	0	0	0	0	-0.59	-0.61	1	1	0	900	900	0
11/30/2024 14:14	53903	HALI_T2	3	3	0	0.9	0.77	-0.13	0	0	0	0	0	0	0	0
11/30/2024 14:14	53902	HALI_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
11/30/2024 14:14	53901	HALI_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
11/30/2024 14:21	65604	QVIL_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
11/30/2024 14:34	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
11/30/2024 14:39	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 14:56	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
11/30/2024 14:56	46506	LOHA_T1	3	3	0	1.37	1.33	-0.04	0	0	0	0	0	0	0	0
11/30/2024 14:56	46504	LOHA_T1	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
11/30/2024 14:56	46501	LOHA_T1	3	2	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
11/30/2024 15:08	44902	SCOT_T2	1	0	-1	1.3	0	-1.3	-0.91	-0.92	0	0	0	0	0	0
11/30/2024 15:35	64904	MILL_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
11/30/2024 15:45	20201	JERM_T1	0	0	0	0	0	0	1.41	1.4	0	0	0	0	0	0
11/30/2024 15:52	55002	NEWP_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
11/30/2024 15:52	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 15:56	14102	TRUM_T2	0	0	0	0	0	0	-0.59	-0.56	2	2	0	1500	1500	0
11/30/2024 15:56	14103	TRUM_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 18:36	46506	LOHA_T1	3	4	1	0.73	1	0.27	0	0	0	0	0	0	0	0
11/30/2024 18:36	25503	MADI_T1	0	0	0	0	0	0	-0.82	-0.79	0	0	0	0	0	0
11/30/2024 18:36	20201	JERM_T1	0	0	0	0	0	0	1.34	1.41	0	0	0	0	0	0
11/30/2024 18:36	25501	MADI_T1	16	33	17	0.73	0.45	-0.28	0	0	0	0	0	0	0	0
11/30/2024 18:36	46501	LOHA_T1	3	12	9	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
11/30/2024 18:36	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
11/30/2024 18:40	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 18:40	10805	CHHI_T2	1	1	0	7.9	7.7	-0.2	-1.07	-1.1	1	1	0	600	600	0
11/30/2024 18:41	63501	HEID_TBK1-2	1	16	15	0.6	0.17	-0.43	-0.48	-0.39	1	1	0	900	900	0
11/30/2024 18:42	22901	HARW_T1	40	60	20	1.15	0.83	-0.32	0	0	0	0	0	0	0	0
11/30/2024 18:42	22905	HARW_T1	160	140	-20	1.03	1.31	0.28	0	0	0	0	0	0	0	0
11/30/2024 18:42	22903	HARW_T1	15	16	1	0.52	0.4	-0.12	-1.15	-1.15	0	0	0	0	0	0
11/30/2024 18:42	22904	HARW_T1	7	7	0	0.21	0.89	0.68	0	0	0	0	0	0	0	0
11/30/2024 18:42	11104	EGYP_T1	1	1	0	2.6	0	-2.6	-0.47	-0.5	1	1	0	900	900	0
11/30/2024 18:42	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
11/30/2024 18:42	44203	POIN_T2	0	0	0	0	0	0	-0.98	-1	2	2	0	2100	2100	0
11/30/2024 18:42	11403	FARM_T1	0	0	0	0	0	0	-0.29	-0.25	1	1	0	600	600	0
11/30/2024 18:42	40101	HUNT_T2	472	441	-31	1.09	0.75	-0.34	-2.89	-2.81	0	0	0	0	0	0
11/30/2024 18:43	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 18:43	44201	POIN_T1	0	0	0	0	0	0	-2.04	-2.1	1	1	0	1200	1200	0
11/30/2024 18:43	42701	AUGU_T1	3	2	-1	1.2	0.65	-0.55	0	0	2	2	0	1800	1800	0
11/30/2024 18:43	20402	ASHF_T2	0	6	6	0	0.23	0.23	0	0	0	0	0	0	0	0
11/30/2024 18:43	67702	WERN_T2	3	14	11	0.87	0.8	-0.07	0	0	0	0	0	0	0	0
11/30/2024 18:43	20403	ASHF_T2	0	0	0	0	0	0	0.54	0.5	0	0	0	0	0	0
11/30/2024 18:43	63501	HEID_TBK1-2	1	16	15	0.6	0.17	-0.43	-0.48	-0.39	1	1	0	900	900	0
11/30/2024 18:43	60101	COCA_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
11/30/2024 18:43	20401	ASHF_T2	1	4	3	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
11/30/2024 18:44	13904	SEID_T1	12	14	2	0.49	0.5	0.01	0	0	0	0	0	0	0	0
11/30/2024 18:44	57401	SPAN_T1	0	0	0	0	0	0	-2.62	-2.68	2	2	0	1200	1200	0
11/30/2024 18:44	64201	KINZ_T1	0	0	0	0	0	0	-0.81	-0.78	3	3	0	1500	1500	0
11/30/2024 18:44	64204	KINZ_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
11/30/2024 18:44	44201	POIN_T1	0	0	0	0	0	0	-2.04	-2.1	1	1	0	1200	1200	0
11/30/2024 18:44	13901	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 18:44	60102	COCA_T1	0	0	0	0	0	0	-0.17	-0.05	2	2	0	1200	1200	0
11/30/2024 18:45	64204	KINZ_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
11/30/2024 18:45	45701	LIND_T2	0	0	0	0	0	0	-1.73	-1.74	0	0	0	0	0	0
11/30/2024 18:45	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 18:45	64201	KINZ_T1	0	0	0	0	0	0	-0.81	-0.78	3	3	0	1500	1500	0
11/30/2024 18:45	22905	HARW_T1	118	159	41	1.4	1.35	-0.05	0	0	0	0	0	0	0	0
11/30/2024 18:45	60101	COCA_T1	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
11/30/2024 18:45	64101	REFR_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
11/30/2024 18:45	22901	HARW_T1	27	59	32	0.84	0.65	-0.19	-1.72	-1.68	1	1	0	1200	1200	0
11/30/2024 18:45	42503	ALTA_T2	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
11/30/2024 18:45	42501	ALTA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 18:45	22903	HARW_T1	2	26	24	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
11/30/2024 18:45	22904	HARW_T1	7	7	0	0.89	1.33	0.44	0	0	0	0	0	0	0	0
11/30/2024 18:45	67702	WERN_T2	14	2	-12	0.3	0.6	0.3	0	0	0	0	0	0	0	0
11/30/2024 18:46	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 18:46	44301	BEAV_T2	2	2	0	0.85	0.8	-0.05	0	0	1	1	0	600	600	0
11/30/2024 18:46	22904	HARW_T1	7	7	0	0.89	1.33	0.44	0	0	0	0	0	0	0	0
11/30/2024 18:46	22901	HARW_T1	27	59	32	0.84	0.65	-0.19	0	0	0	0	0	0	0	0
11/30/2024 18:46	63501	HEID_TBK1-2	16	15	-1	0.16	0.16	0	-0.48	-0.39	1	1	0	900	900	0
11/30/2024 18:46	22903	HARW_T1	2	26	24	0.4	0.37	-0.03	-1.15	-1.15	0	0	0	0	0	0
11/30/2024 18:46	45501	DERR_T2	0	11	11	0	0.3	0.3	0.29	0.29	1	1	0	600	600	0
11/30/2024 18:46	45502	DERR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/30/2024 18:46	22905	HARW_T1	118	159	41	1.4	1.35	-0.05	0	0	0	0	0	0	0	0
11/30/2024 18:46	60801	BUCK_T1	0	0	0	0	0	0	-0.84	-0.86	1	1	0	600	600	0
11/30/2024 18:47	40702	FFLD_T1	0	0	0	0	0	0	-1.25	-1.23	1	1	0	1200	1200	0
11/30/2024 18:47	57401	SPAN_T1	0	0	0	0	0	0	-1.31	-1.34	1	1	0	600	600	0
11/30/2024 18:47	67702	WERN_T2	14	2	-12	0.3	0.6	0.3	0	0	0	0	0	0	0	0
11/30/2024 18:47	54506	ENOL_T2	0	0	0	0	0	0	0.26	0.28	0	1	1	0	600	600
11/30/2024 18:47	63202	MGTN_T2	0	2	2	0	0	0	0.4	0.43	0	0	0	0	0	0
11/30/2024 18:47	44503	HAMI_T2	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
11/30/2024 18:47	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 18:47	44502	HAMI_T2	1	2	1	2.3	2.3	0	0	0	0	0	0	0	0	0
11/30/2024 18:47	66202	SISP_T2	0	0	0	0	0	0	-0.96	-0.95	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
11/30/2024 18:47	64101	REFR_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
11/30/2024 18:47	66203	SISP_T2	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
11/30/2024 18:48	10801	CHHI_T1	0	0	0	0	0	0	-1.36	-1.4	2	2	0	1500	1500	0
11/30/2024 18:48	63601	LETO_T1	0	0	0	0	0	0	0.7	0.9	1	1	0	900	900	0
11/30/2024 18:48	14204	EALL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
11/30/2024 18:48	67702	WERN_T2	14	2	-12	0.3	0.6	0.3	0	0	0	0	0	0	0	0
11/30/2024 18:48	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 18:48	12005	HATF_T1	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
11/30/2024 18:48	11104	EGYP_T1	1	0	-1	1.2	0	-1.2	-0.47	-0.5	1	1	0	900	900	0
11/30/2024 18:48	63501	HEID_TBK1-2	16	15	-1	0.16	0.16	0	-0.48	-0.39	1	1	0	900	900	0
11/30/2024 18:48	45501	DERR_T2	0	11	11	0	0.3	0.3	0.29	0.29	1	1	0	600	600	0
11/30/2024 18:48	44202	POIN_T2	0	0	0	0	0	0	-0.91	-0.89	1	1	0	1200	1200	0
11/30/2024 18:48	45502	DERR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/30/2024 18:48	61303	EARL_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
11/30/2024 18:48	42701	AUGU_T1	2	3	1	0.65	1.35	0.7	0	0	2	2	0	1800	1800	0
11/30/2024 18:48	12006	HATF_T1	2	2	0	0.65	0.5	-0.15	0	0.01	0	0	0	0	0	0
11/30/2024 18:48	44201	POIN_T1	0	0	0	0	0	0	-2.04	-2.1	1	1	0	1200	1200	0
11/30/2024 18:49	45501	DERR_T2	0	11	11	0	0.3	0.3	0.29	0.29	1	1	0	600	600	0
11/30/2024 18:49	52404	GRPA_T2	2	4	2	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
11/30/2024 18:49	52402	GRPA_T2	30	12	-18	0.74	0.49	-0.25	0	0	0	0	0	0	0	0
11/30/2024 18:49	20402	ASHF_T2	4	5	1	0.38	0.5	0.12	0	0	0	0	0	0	0	0
11/30/2024 18:49	42701	AUGU_T1	2	3	1	0.65	1.35	0.7	0	0	2	2	0	1800	1800	0
11/30/2024 18:49	44201	POIN_T1	0	0	0	0	0	0	-2.04	-2.1	1	1	0	1200	1200	0
11/30/2024 18:49	52403	GRPA_T2	66	42	-24	1.01	0.66	-0.35	-0.7	-0.74	0	0	0	0	0	0
11/30/2024 18:49	44902	SCOT_T2	0	0	0	0	0	0	-0.88	-2.21	0	0	0	0	0	0
11/30/2024 18:49	64402	LAND_T2	0	0	0	0	0	0	-0.54	-0.46	1	1	0	600	600	0
11/30/2024 18:49	52401	GRPA_T2	1	3	2	1.7	0.5	-1.2	0	0	0	0	0	0	0	0
11/30/2024 18:49	45502	DERR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
11/30/2024 18:49	20403	ASHF_T2	0	0	0	0	0	0	0.54	0.5	0	0	0	0	0	0
11/30/2024 18:49	20401	ASHF_T2	2	3	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
11/30/2024 18:50	45702	LIND_T2	0	0	0	0	0	0	-1.67	-1.68	0	0	0	0	0	0
11/30/2024 18:50	55002	NEWP_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
11/30/2024 18:50	55001	NEWP_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 18:50	43202	MVIL_T2	2	7	5	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
11/30/2024 18:50	43201	MVIL_T2	2	2	0	0.4	1.7	1.3	-1.26	-1.24	0	0	0	0	0	0
11/30/2024 18:50	52501	PROG_T1	1	1	0	0.1	0.2	0.1	-0.78	-0.77	1	1	0	300	300	0
11/30/2024 18:50	20601	GRWO_T2	10	19	9	1.17	0.68	-0.49	0	0	0	0	0	0	0	0
11/30/2024 18:50	65205	PRIN_T1	1	2	1	1	1.1	0.1	0	0	0	0	0	0	0	0
11/30/2024 18:50	40101	HUNT_T2	416	427	11	0.85	0.72	-0.13	-1.44	-1.41	0	0	0	0	0	0
11/30/2024 18:50	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 18:50	41902	REED_T1	1	0	-1	0.3	0	-0.3	0.21	0.1	1	1	0	900	900	0
11/30/2024 18:50	58003	WCAR_T1	0	0	0	0	0	0	-0.18	-0.18	1	1	0	600	600	0
11/30/2024 18:50	45802	HEGI_T2	45	45	0	0.86	0.88	0.02	0	0	0	0	0	0	0	0
11/30/2024 18:50	41901	REED_T1	6	7	1	0.28	0.3	0.02	0	0	0	0	0	0	0	0
11/30/2024 18:50	14601	SWHI_T1	0	0	0	0	0	0	-1.38	-1.37	0	0	0	0	0	0
11/30/2024 18:50	20603	GRWO_T2	0	0	0	0	0	0	-0.5	-0.52	1	1	0	900	900	0
11/30/2024 18:50	46203	DANV_T2	0	0	0	0	0	0	-2.63	-2.63	0	0	0	0	0	0
11/30/2024 18:50	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 18:50	10801	CHHI_T1	0	0	0	0	0	0	-1.36	-1.4	2	2	0	1500	1500	0
11/30/2024 18:50	67702	WERN_T2	14	2	-12	0.3	0.6	0.3	0	0	0	0	0	0	0	0
11/30/2024 18:51	43201	MVIL_T2	2	2	0	0.4	1.7	1.3	0	0	0	0	0	0	0	0
11/30/2024 18:51	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 18:51	64101	REFR_T1	0	0	0	0	0	0	0.02	0.08	0	0	0	0	0	0
11/30/2024 18:51	44201	POIN_T1	0	0	0	0	0	0	-4.09	-4.2	2	2	0	2400	2400	0
11/30/2024 18:51	46801	HEPB_T2	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
11/30/2024 18:51	52501	PROG_T1	1	1	0	0.1	0.2	0.1	-0.78	-0.77	1	1	0	300	300	0
11/30/2024 18:51	60101	COCA_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
11/30/2024 18:51	43202	MVIL_T2	2	7	5	0.75	0.5	-0.25	-0.61	-0.6	0	0	0	0	0	0
11/30/2024 18:51	66505	SMAN_T2	3	3	0	1.13	0.87	-0.26	0	0	0	0	0	0	0	0
11/30/2024 18:52	53902	HALI_T2	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
11/30/2024 18:52	63501	HEID_TBK1-2	16	15	-1	0.16	0.16	0	-0.39	-0.37	1	1	0	900	900	0
11/30/2024 18:52	43201	MVIL_T2	2	2	0	0.4	1.7	1.3	0	0	0	0	0	0	0	0
11/30/2024 18:52	65401	MARI_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
11/30/2024 18:52	43202	MVIL_T2	2	7	5	0.75	0.5	-0.25	-0.6	-0.59	0	0	0	0	0	0
11/30/2024 18:52	53903	HALI_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
11/30/2024 18:52	57401	SPAN_T1	0	0	0	0	0	0	-1.34	-1.31	1	1	0	600	600	0
11/30/2024 18:52	53901	HALI_T2	0	0	0	0	0	0	-1.25	-1.26	0	0	0	0	0	0
11/30/2024 18:53	41902	REED_T1	1	0	-1	0.3	0	-0.3	0.1	0.16	1	1	0	900	900	0
11/30/2024 18:53	41901	REED_T1	6	7	1	0.28	0.3	0.02	0	0	0	0	0	0	0	0
11/30/2024 18:53	64204	KINZ_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
11/30/2024 18:53	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 18:53	41801	GOCI_T2	0	3	3	0	0.3	0.3	0	0	0	1	1	0	900	900
11/30/2024 18:53	67702	WERN_T2	14	2	-12	0.3	0.6	0.3	0	0	0	0	0	0	0	0
11/30/2024 18:53	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 18:54	51204	MTON_T2	0	0	0	0	0	0	-1.4	-1.41	2	2	0	1500	1500	0
11/30/2024 18:54	14103	TRUM_T2	6	7	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
11/30/2024 18:54	45702	LIND_T2	0	0	0	0	0	0	-1.68	-1.7	0	0	0	0	0	0
11/30/2024 18:54	58402	MORO_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
11/30/2024 18:54	58401	MORO_T1	1	1	0	1.1	0.2	-0.9	-2.46	-2.47	2	2	0	1200	1200	0
11/30/2024 18:54	20601	GRWO_T2	10	19	9	1.17	0.68	-0.49	-0.09	-0.13	0	0	0	0	0	0
11/30/2024 18:54	14102	TRUM_T2	1	1	0	6.3	6.3	0	-0.44	-0.55	2	2	0	1500	1500	0
11/30/2024 18:54	64204	KINZ_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
11/30/2024 18:54	64202	KINZ_T1	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
11/30/2024 18:54	67402	WAKE_T2	0	0	0	0	0	0	-0.37	-0.34	1	1	0	600	600	0
11/30/2024 18:55	63801	HEMP_T1	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
11/30/2024 18:55	52501	PROG_T1	1	1	0	0.1	0.2	0.1	-0.77	-0.8	1	1	0	300	300	0
11/30/2024 18:55	64204	KINZ_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
11/30/2024 18:55	63804	HEMP_T1	1	2	1	6.4	3.35	-3.05	0	0	0	0	0	0	0	0
11/30/2024 18:55	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 18:55	58202	NEWV_T1	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
11/30/2024 18:55	64203	KINZ_T1	0	0	0	0	0	0	-0.44	-0.43	1	1	0	600	600	0
11/30/2024 18:55	64101	REFR_T1	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
11/30/2024 18:55	67702	WERN_T2	14	2	-12	0.3	0.6	0.3	0	0	0	0	0	0	0	0
11/30/2024 18:56	44301	BEAV_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
11/30/2024 18:56	52501	PROG_T1	1	1	0	0.1	0.2	0.1	-0.77	-0.8	1	1	0	300	300	0
11/30/2024 18:56	58402	MORO_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
11/30/2024 18:56	43304	WATS_T2	2	8	6	0.1	0.28	0.18	-0.75	-0.75	0	0	0	0	0	0
11/30/2024 18:56	49804	UNIV_T1	1	1	0	1	1.1	0.1	0.59	0.52	0	0	0	0	0	0
11/30/2024 18:56	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 18:56	49803	UNIV_T1	6	1	-5	1.63	7.1	5.47	0	0	0	0	0	0	0	0
11/30/2024 18:56	63501	HEID_TBK1-2	16	15	-1	0.16	0.16	0	-0.39	-0.37	1	1	0	900	900	0
11/30/2024 18:56	52502	PROG_T2	0	0	0	0	0	0	0.61	-0.32	0	1	1	0	900	900
11/30/2024 18:56	67201	TEHI_T1	0	0	0	0	0	0	0.28	0.17	0	0	0	0	0	0
11/30/2024 18:56	40701	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 18:56	58401	MORO_T1	1	1	0	1.1	0.2	-0.9	-2.46	-2.47	2	2	0	1200	1200	0
11/30/2024 18:56	64101	REFR_T1	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
11/30/2024 18:57	41901	REED_T1	6	7	1	0.28	0.3	0.02	0	0	0	0	0	0	0	0
11/30/2024 18:57	52502	PROG_T2	0	0	0	0	0	0	0.61	-0.32	0	1	1	0	900	900
11/30/2024 18:57	44905	SCOT_T1	17	4	-13	0.46	0.1	-0.36	0	0	0	0	0	0	0	0
11/30/2024 18:57	64101	REFR_T1	0	0	0	0	0	0	0.02	0.08	0	0	0	0	0	0
11/30/2024 18:57	41902	REED_T1	1	0	-1	0.3	0	-0.3	0.1	0.16	1	1	0	900	900	0
11/30/2024 18:58	65401	MARI_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
11/30/2024 18:59	55001	NEWP_T1	0	3	3	0	0	0	-0.81	-0.81	1	1	0	600	600	0
11/30/2024 18:59	52502	PROG_T2	0	0	0	0	0	0	0.61	-0.32	0	1	1	0	900	900
11/30/2024 18:59	63801	HEMP_T1	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
11/30/2024 18:59	63804	HEMP_T1	1	2	1	6.4	3.35	-3.05	0	0	0	0	0	0	0	0
11/30/2024 18:59	63302	GREE_T1	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
11/30/2024 18:59	65401	MARI_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
11/30/2024 19:00	53902	HALI_T2	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
11/30/2024 19:00	53903	HALI_T2	2	2	0	0.65	0.45	-0.2	-0.18	-0.15	0	0	0	0	0	0
11/30/2024 19:00	44201	POIN_T1	0	0	0	0	0	0	-2.1	-2.03	1	1	0	1200	1200	0
11/30/2024 19:00	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2024 19:01	65401	MARI_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
11/30/2024 19:13	40101	HUNT_T2	411	490	79	0.75	0.82	0.07	-1.2	-1.37	0	0	0	0	0	0
11/30/2024 19:14	22901	HARW_T1	58	56	-2	0.69	1.52	0.83	0	0	0	0	0	0	0	0
11/30/2024 19:14	22903	HARW_T1	16	26	10	0.37	0.44	0.07	0	0	0	0	0	0	0	0
11/30/2024 19:14	22904	HARW_T1	7	9	2	1.33	0.73	-0.6	0	0	0	0	0	0	0	0
11/30/2024 19:14	22905	HARW_T1	131	166	35	1.45	1.2	-0.25	-0.24	-0.25	0	0	0	0	0	0
11/30/2024 19:28	60101	COCA_T1	0	0	0	0	0	0	0.38	0.42	0	0	0	0	0	0
11/30/2024 19:31	57401	SPAN_T1	0	0	0	0	0	0	-1.32	-1.31	1	1	0	600	600	0
11/30/2024 19:35	64904	MILL_T1	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
11/30/2024 19:39	57401	SPAN_T1	0	0	0	0	0	0	-1.31	-1.33	1	1	0	600	600	0
11/30/2024 19:46	46203	DANV_T2	1	0	-1	0.2	0	-0.2	-2.64	-2.66	0	0	0	0	0	0
11/30/2024 19:53	57401	SPAN_T1	0	0	0	0	0	0	-1.33	-1.34	1	1	0	600	600	0
12/1/2024 7:56	45501	DERR_T2	0	2	2	0	0.2	0.2	0.38	0.41	1	1	0	600	600	0
12/1/2024 7:56	45502	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/1/2024 8:03	45702	LIND_T2	0	0	0	0	0	0	-1.72	-1.72	0	0	0	0	0	0
12/1/2024 8:20	43201	MVIL_T2	0	0	0	0	0	0	-1.25	-1.26	0	0	0	0	0	0
12/1/2024 8:20	43202	MVIL_T2	7	4	-3	0.57	0.3	-0.27	0	0	0	0	0	0	0	0
12/1/2024 8:20	13704	SOHN_T2	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
12/1/2024 8:20	42001	MNVL_T2	6	14	8	0.85	0.9	0.05	0.86	0.82	0	0	0	0	0	0
12/1/2024 8:27	53502	EVIL_T2	0	11	11	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 8:27	53501	EVIL_T2	1	1	0	0.2	0.2	0	-0.59	-0.57	0	0	0	0	0	0
12/1/2024 8:28	45501	DERR_T2	2	0	-2	0.3	0	-0.3	0.42	0.42	1	1	0	600	600	0
12/1/2024 8:29	45701	LIND_T2	0	0	0	0	0	0	-1.74	-1.75	0	0	0	0	0	0
12/1/2024 8:33	41902	REED_T1	4	1	-3	0.28	0	-0.28	0.36	0.35	1	1	0	900	900	0
12/1/2024 8:33	55002	NEWP_T1	0	3	3	0	0.2	0.2	-0.13	-0.14	0	0	0	0	0	0
12/1/2024 8:33	55001	NEWP_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
12/1/2024 8:39	66703	STRA_T1	0	0	0	0	0	0	-0.74	-0.79	0	0	0	0	0	0
12/1/2024 8:39	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 8:41	51802	EBEN_T2	0	0	0	0	0	0	-0.43	-0.45	1	1	0	900	900	0
12/1/2024 8:41	51804	EBEN_T2	1	1	0	1.5	0.5	-1	0	0	0	0	0	0	0	0
12/1/2024 8:43	53501	EVIL_T2	1	2	1	0.2	0.2	0	-0.57	-0.58	0	0	0	0	0	0
12/1/2024 8:43	53502	EVIL_T2	11	0	-11	1.22	0	-1.22	0	0	0	0	0	0	0	0
12/1/2024 8:43	51804	EBEN_T2	1	1	0	1.5	0.5	-1	-0.21	-0.22	1	1	0	900	900	0
12/1/2024 8:45	65401	MARI_T1	0	0	0	0	0	0	0.48	0.43	0	0	0	0	0	0
12/1/2024 8:47	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 8:48	12006	HATF_T1	2	2	0	0.45	0.65	0.2	0.09	0.15	0	0	0	0	0	0
12/1/2024 8:48	12005	HATF_T1	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/1/2024 8:50	52502	PROG_T2	0	0	0	0	0	0	-0.24	-0.26	1	1	0	900	900	0
12/1/2024 8:53	52502	PROG_T2	0	0	0	0	0	0	-0.26	-0.27	1	1	0	900	900	0
12/1/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
12/1/2024 9:00	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/1/2024 9:00	43202	MVIL_T2	0	2	2	0	0.55	0.55	-1.1	-1.14	0	0	0	0	0	0
12/1/2024 9:00	41902	REED_T1	0	3	3	0	0	0	0.39	0.33	1	1	0	900	900	0
12/1/2024 9:00	28102	TWLA_T2	0	1	1	0	0	0	0.28	0.29	0	0	0	0	0	0
12/1/2024 9:00	67503	WEWI_T2	1	1	0	5.2	5.8	0.6	-0.53	-0.54	0	0	0	0	0	0
12/1/2024 9:00	52502	PROG_T2	0	0	0	0	0	0	-0.26	-0.27	1	1	0	900	900	0
12/1/2024 9:05	66504	SMAN_T2	0	1	1	0	0.1	0.1	-3.52	-3.38	2	2	0	2400	2400	0
12/1/2024 9:06	14601	SWHI_T1	0	0	0	0	0	0	-2.72	-2.74	0	0	0	0	0	0
12/1/2024 9:07	66504	SMAN_T2	0	1	1	0	0.1	0.1	-1.69	-1.74	1	1	0	1200	1200	0
12/1/2024 9:08	52502	PROG_T2	0	0	0	0	0	0	-0.27	-0.26	1	1	0	900	900	0
12/1/2024 9:08	49803	UNIV_T1	1	1	0	6.1	6.2	0.1	-0.98	-0.98	0	0	0	0	0	0
12/1/2024 9:08	49804	UNIV_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/1/2024 9:12	63501	HEID_TBK1-2	33	38	5	0.3	0.45	0.15	-0.44	-0.45	1	1	0	900	900	0
12/1/2024 9:12	14204	EALL_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
12/1/2024 9:13	63501	HEID_TBK1-2	33	38	5	0.3	0.45	0.15	-0.44	-0.45	1	1	0	900	900	0
12/1/2024 9:14	63501	HEID_TBK1-2	33	38	5	0.3	0.45	0.15	-0.44	-0.45	1	1	0	900	900	0
12/1/2024 9:14	12005	HATF_T1	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/1/2024 9:14	12006	HATF_T1	2	2	0	0.65	0.4	-0.25	0.09	0.13	0	0	0	0	0	0
12/1/2024 9:16	64202	KINZ_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
12/1/2024 9:16	45702	LIND_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/1/2024 9:16	45701	LIND_T2	0	0	0	0	0	0	-1.73	-1.74	0	0	0	0	0	0
12/1/2024 9:16	64204	KINZ_T1	1	16	15	1	0.34	-0.66	0	0	0	0	0	0	0	0
12/1/2024 9:16	64203	KINZ_T1	0	0	0	0	0	0	-0.35	-0.37	1	1	0	600	600	0
12/1/2024 9:17	45702	LIND_T2	1	1	0	0.2	0.1	-0.1	-3.42	-3.4	0	0	0	0	0	0
12/1/2024 9:17	54506	ENOL_T2	0	0	0	0	0	0	0.29	0.25	0	1	1	0	600	600
12/1/2024 9:18	63501	HEID_TBK1-2	30	39	9	0.27	0.64	0.37	-0.44	-0.45	1	1	0	900	900	0
12/1/2024 9:19	44201	POIN_T1	5	37	32	0.12	0.14	0.02	-1.92	-1.98	1	1	0	1200	1200	0
12/1/2024 9:20	44201	POIN_T1	5	37	32	0.12	0.14	0.02	-1.92	-1.98	1	1	0	1200	1200	0
12/1/2024 9:21	44201	POIN_T1	5	37	32	0.12	0.14	0.02	-1.92	-1.98	1	1	0	1200	1200	0
12/1/2024 9:21	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 9:21	66504	SMAN_T2	0	2	2	0	0.25	0.25	-1.74	-1.79	1	1	0	1200	1200	0
12/1/2024 9:22	66504	SMAN_T2	0	2	2	0	0.25	0.25	-1.74	-1.79	1	1	0	1200	1200	0
12/1/2024 9:22	44201	POIN_T1	5	37	32	0.12	0.14	0.02	-3.95	-4.11	2	2	0	2400	2400	0
12/1/2024 9:22	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 9:24	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 9:25	45501	DERR_T2	0	0	0	0	0	0	0.37	0.36	1	1	0	600	600	0
12/1/2024 9:25	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 9:25	66504	SMAN_T2	0	2	2	0	0.25	0.25	-1.74	-1.79	1	1	0	1200	1200	0
12/1/2024 9:26	45501	DERR_T2	0	0	0	0	0	0	0.37	0.36	1	1	0	600	600	0
12/1/2024 9:26	44302	BEAV_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
12/1/2024 9:26	44301	BEAV_T2	1	5	4	0.9	0.25	-0.65	0	0	0	0	0	0	0	0
12/1/2024 9:28	63801	HEMP_T1	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
12/1/2024 9:28	63804	HEMP_T1	1	2	1	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
12/1/2024 9:29	63804	HEMP_T1	1	2	1	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
12/1/2024 9:29	63801	HEMP_T1	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
12/1/2024 9:30	63305	GREE_T1	8	15	7	0.34	0.29	-0.05	-2.56	-2.54	1	1	0	900	900	0
12/1/2024 9:30	63306	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/1/2024 9:33	65202	PRIN_T1	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
12/1/2024 9:33	65205	PRIN_T1	2	1	-1	1.2	1.5	0.3	0	0	0	0	0	0	0	0
12/1/2024 9:35	63306	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/1/2024 9:35	63305	GREE_T1	8	15	7	0.34	0.29	-0.05	-2.56	-2.54	1	1	0	900	900	0
12/1/2024 9:36	57401	SPAN_T1	0	0	0	0	0	0	-1.58	-1.59	1	1	0	600	600	0
12/1/2024 9:37	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 9:38	57401	SPAN_T1	0	0	0	0	0	0	-1.59	-1.61	1	1	0	600	600	0
12/1/2024 9:38	65802	RTWN_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
12/1/2024 9:39	57403	SPAN_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
12/1/2024 9:39	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 9:41	57403	SPAN_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
12/1/2024 9:41	57401	SPAN_T1	0	0	0	0	0	0	-1.59	-1.61	1	1	0	600	600	0
12/1/2024 9:42	10801	CHHI_T1	0	1	1	0	0.1	0.1	-1.99	-1.99	3	3	0	2100	2100	0
12/1/2024 9:44	44801	EDAN_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
12/1/2024 9:44	45501	DERR_T2	0	0	0	0	0	0	0.36	0.33	1	1	0	600	600	0
12/1/2024 9:45	63501	HEID_TBK1-2	38	39	1	0.62	0.43	-0.19	-0.41	-0.44	1	1	0	900	900	0
12/1/2024 9:46	63501	HEID_TBK1-2	38	39	1	0.62	0.43	-0.19	-0.41	-0.44	1	1	0	900	900	0
12/1/2024 9:46	44801	EDAN_T2	0	1	1	0	0	0	-0.36	-0.37	0	0	0	0	0	0
12/1/2024 9:50	63305	GREE_T1	13	10	-3	0.31	0.31	0	0	0	0	0	0	0	0	0
12/1/2024 9:50	63306	GREE_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/1/2024 9:50	64101	REFR_T1	1	0	-1	0.2	0	-0.2	0.04	0.01	0	0	0	0	0	0
12/1/2024 9:50	63302	GREE_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
12/1/2024 9:52	44201	POIN_T1	31	52	21	0.15	0.21	0.06	-2.06	-2.05	1	1	0	1200	1200	0
12/1/2024 9:55	46203	DANV_T2	1	0	-1	0.1	0	-0.1	-1.75	-1.78	0	0	0	0	0	0
12/1/2024 9:56	60101	COCA_T1	0	1	1	0	0.3	0.3	0.38	0.36	0	0	0	0	0	0
12/1/2024 9:57	46203	DANV_T2	1	0	-1	0.1	0	-0.1	-1.75	-1.78	0	0	0	0	0	0
12/1/2024 9:58	46203	DANV_T2	1	0	-1	0.1	0	-0.1	-1.75	-1.78	0	0	0	0	0	0
12/1/2024 9:58	14204	EALL_T2	2	3	1	0.35	0	-0.35	0.01	0.15	0	0	0	0	0	0
12/1/2024 9:58	64101	REFR_T1	1	0	-1	0.2	0	-0.2	0.01	0.01	0	0	0	0	0	0
12/1/2024 9:59	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 9:59	46203	DANV_T2	1	0	-1	0.1	0	-0.1	-1.75	-1.78	0	0	0	0	0	0
12/1/2024 9:59	60101	COCA_T1	0	1	1	0	0.3	0.3	1.14	1.08	0	0	0	0	0	0
12/1/2024 9:59	41801	COCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 10:03	58201	NEWV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/1/2024 10:03	55002	NEWP_T1	2	2	0	0.6	0.2	-0.4	-0.12	-0.14	0	0	0	0	0	0
12/1/2024 10:03	58202	NEWV_T1	0	0	0	0	0	0	-0.18	-0.23	0	0	0	0	0	0
12/1/2024 10:04	52504	PROG_T1	50	0	-50	0.18	0	-0.18	0	0	0	0	0	0	0	0
12/1/2024 10:04	52501	PROG_T1	267	48	-219	0.36	0.1	-0.26	-0.75	-0.43	1	0	-1	300	0	-300
12/1/2024 10:04	57201	ROSS_T1	0	0	0	0	0	0	0.89	-0.77	0	0	0	0	0	0
12/1/2024 10:05	52504	PROG_T1	50	0	-50	0.18	0	-0.18	0	0	0	0	0	0	0	0
12/1/2024 10:05	52503	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 10:05	65207	PRIN_T4	2	4	2	2.5	3.3	0.8	0	0	0	0	0	0	0	0
12/1/2024 10:05	52502	PROG_T2	0	0	0	0	0	0	-0.3	-0.32	1	1	0	900	900	0
12/1/2024 10:05	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 10:05	44905	SCOT_T1	2	3	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/1/2024 10:05	52501	PROG_T1	267	48	-219	0.36	0.1	-0.26	-0.75	-0.43	1	0	-1	300	0	-300
12/1/2024 10:06	60101	COCA_T1	1	5	4	0.3	0.34	0.04	0.36	0.36	0	0	0	0	0	0
12/1/2024 10:07	52501	PROG_T1	267	48	-219	0.36	0.1	-0.26	-0.43	-0.43	0	0	0	0	0	0
12/1/2024 10:07	52502	PROG_T2	0	0	0	0	0	0	-0.65	-0.6	2	2	0	1800	1800	0
12/1/2024 10:07	52504	PROG_T1	50	0	-50	0.18	0	-0.18	0	0	0	0	0	0	0	0
12/1/2024 10:07	51204	MTON_T2	0	0	0	0	0	0	-1.4	-1.4	2	2	0	1500	1500	0
12/1/2024 10:07	52503	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 10:09	46004	BERW_T2	13	7	-6	0.7	0.84	0.14	0	0	0	0	0	0	0	0
12/1/2024 10:09	46002	BERW_T2	0	0	0	0	0	0	-1.41	-1.4	1	1	0	900	900	0
12/1/2024 10:12	11104	EGYP_T1	3	5	2	1.93	0.8	-1.13	0.47	0.4	0	0	0	0	0	0
12/1/2024 10:16	11104	EGYP_T1	5	4	-1	1.46	0	-1.46	0.47	0.4	0	0	0	0	0	0
12/1/2024 10:18	64101	REFR_T1	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
12/1/2024 10:21	57401	SPAN_T1	0	0	0	0	0	0	-1.59	-1.13	1	1	0	600	600	0
12/1/2024 10:23	57401	SPAN_T1	0	0	0	0	0	0	-1.13	-1.47	1	1	0	600	600	0
12/1/2024 10:24	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 10:27	46203	DANV_T2	0	1	1	0	0	0	-1.77	-1.82	0	0	0	0	0	0
12/1/2024 10:28	61303	EARL_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
12/1/2024 10:28	61302	EARL_T1	3	4	1	0.43	0.58	0.15	0	0	0	0	0	0	0	0
12/1/2024 10:29	46203	DANV_T2	0	1	1	0	0	0	-3.54	-3.63	0	0	0	0	0	0
12/1/2024 10:35	46004	BERW_T2	5	8	3	0.86	0.13	-0.73	-0.76	-0.7	0	0	0	0	0	0
12/1/2024 10:38	16102	BING_T2	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
12/1/2024 10:38	16101	BING_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
12/1/2024 10:38	16103	BING_T2	1	2	1	0.5	0.55	0.05	-1.6	-1.58	1	1	0	900	900	0
12/1/2024 10:39	67801	WLAN_T1	0	0	0	0	0	0	-0.4	-0.55	0	0	0	0	0	0
12/1/2024 10:39	67804	WLAN_T1	10	10	0	1.11	0.94	-0.17	0	0	0	0	0	0	0	0
12/1/2024 10:40	58001	WCAR_T1	4	4	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
12/1/2024 10:40	58003	WCAR_T1	1	1	0	1	1	0	-0.14	-0.13	1	1	0	600	600	0
12/1/2024 10:40	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
12/1/2024 10:42	11104	EGYP_T1	3	1	-2	0.8	0.5	-0.3	0.39	0.38	0	0	0	0	0	0
12/1/2024 10:42	10801	CHHI_T1	1	1	0	0.5	0.1	-0.4	-1.4	-1.4	2	2	0	1500	1500	0
12/1/2024 10:43	61302	EARL_T1	4	4	0	0.53	0.58	0.05	-0.13	-0.12	1	1	0	1200	1200	0
12/1/2024 10:44	16103	BING_T2	1	2	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
12/1/2024 10:44	16101	BING_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
12/1/2024 10:44	16102	BING_T2	0	5	5	0	0.14	0.14	-0.05	-0.05	0	0	0	0	0	0
12/1/2024 10:45	26704	HEMI_T2	0	0	0	0	0	0	-0.8	-0.76	1	1	0	1200	1200	0
12/1/2024 10:46	22901	HARW_T1	14	20	6	0.5	0.62	0.12	-1.85	-1.74	1	1	0	1200	1200	0
12/1/2024 10:46	22905	HARW_T1	47	52	5	1.55	1.91	0.36	0	0	0	0	0	0	0	0
12/1/2024 10:46	22904	HARW_T1	2	10	8	0.25	0.25	0	0	0	0	0	0	0	0	0
12/1/2024 10:46	22903	HARW_T1	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
12/1/2024 10:50	55002	NEWP_T1	1	1	0	0.1	0.2	0.1	-0.15	-0.13	0	0	0	0	0	0
12/1/2024 10:52	14401	SSLA_T1	0	6	6	0	0.17	0.17	0	0	0	0	0	0	0	0
12/1/2024 10:52	14403	SSLA_T1	4	4	0	0.28	0	-0.28	0	0	0	0	0	0	0	0
12/1/2024 10:54	14401	SSLA_T1	0	6	6	0	0.17	0.17	0	0	0	0	0	0	0	0
12/1/2024 10:54	14403	SSLA_T1	4	4	0	0.28	0	-0.28	0.01	0.02	1	1	0	600	600	0
12/1/2024 10:55	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 10:55	62106	ELAN_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
12/1/2024 10:56	42701	AUGU_T1	1	1	0	0.5	0.6	0.1	0	0	2	2	0	1800	1800	0
12/1/2024 10:56	11104	EGYP_T1	1	2	1	0.5	0	-0.5	0.38	0.4	0	0	0	0	0	0
12/1/2024 10:57	42701	AUGU_T1	1	1	0	0.5	0.6	0.1	0	0	2	2	0	1800	1800	0
12/1/2024 10:59	42701	AUGU_T1	1	1	0	0.5	0.6	0.1	0	0	2	2	0	1800	1800	0
12/1/2024 11:00	25501	MADI_T1	111	152	41	0.54	0.51	-0.03	0	0	0	0	0	0	0	0
12/1/2024 11:00	25503	MADI_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
12/1/2024 11:00	25502	MADI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/1/2024 11:00	61302	EARL_T1	2	1	-1	0.9	0.5	-0.4	-0.12	-0.1	1	1	0	1200	1200	0
12/1/2024 11:01	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 11:02	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 11:02	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 11:04	54203	PENN_T1	19	27	8	0.9	0.9	0	0	0	0	0	0	0	0	0
12/1/2024 11:04	54201	PENN_T1	62	110	48	0.35	0.35	0	-1.37	-1.34	0	0	0	0	0	0
12/1/2024 11:05	65501	MOJO_T1	0	0	0	0	0	0	-1.26	-1.27	1	1	0	900	900	0
12/1/2024 11:05	54201	PENN_T1	62	110	48	0.35	0.35	0	0	0	0	0	0	0	0	0
12/1/2024 11:05	55002	NEWP_T1	1	2	1	0.2	0.25	0.05	-0.13	-0.15	0	0	0	0	0	0
12/1/2024 11:05	54203	PENN_T1	19	27	8	0.9	0.9	0	0	0	0	0	0	0	0	0
12/1/2024 11:05	64101	REFR_T1	1	1	0	0.6	0.3	-0.3	0.04	-0.03	0	0	0	0	0	0
12/1/2024 11:05	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 11:05	65503	MOJO_T2	0	0	0	0	0	0	-1.26	-1.3	1	1	0	900	900	0
12/1/2024 11:05	51202	MTON_T2	0	0	0	0	0	0	-0.91	-0.94	1	1	0	1200	1200	0
12/1/2024 11:06	54203	PENN_T1	19	27	8	0.9	0.9	0	0	0	0	0	0	0	0	0
12/1/2024 11:06	65502	MOJO_T2	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
12/1/2024 11:06	57205	ROSS_T1	0	1	1	0	0.3	0.3	-0.8	-0.77	1	1	0	900	900	0
12/1/2024 11:06	14201	EALL_T1	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
12/1/2024 11:06	54201	PENN_T1	62	110	48	0.35	0.35	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/1/2024 11:06	44202	POIN_T2	1	1	0	0.1	0.3	0.2	-0.91	-0.91	1	1	0	1200	1200	0
12/1/2024 11:07	64101	REFR_T1	1	1	0	0.6	0.3	-0.3	-0.02	-0.01	0	0	0	0	0	0
12/1/2024 11:09	57401	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 11:09	64101	REFR_T1	1	1	0	0.6	0.3	-0.3	-0.03	-0.02	0	0	0	0	0	0
12/1/2024 11:09	57403	SPAN_T1	4	2	-2	0.15	0.15	0	0.17	0.23	0	0	0	0	0	0
12/1/2024 11:10	64101	REFR_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
12/1/2024 11:11	66505	SMAN_T2	0	0	0	0	0	0	-0.12	-0.21	1	1	0	900	900	0
12/1/2024 11:12	21206	ECAR_T2	2	2	0	3.95	7.8	3.85	0	0	0	0	0	0	0	0
12/1/2024 11:12	21204	ECAR_T2	2	1	-1	0.1	0	-0.1	0.23	0.23	0	0	0	0	0	0
12/1/2024 11:16	64402	LAND_T2	0	0	0	0	0	0	-0.6	-0.58	1	1	0	600	600	0
12/1/2024 11:20	58202	NEWV_T1	4	0	-4	0.2	0	-0.2	-0.29	-0.3	0	0	0	0	0	0
12/1/2024 11:22	44201	POIN_T1	68	90	22	0.22	0.25	0.03	-2.04	-2.03	1	1	0	1200	1200	0
12/1/2024 11:22	14102	TRUM_T2	2	2	0	0.55	0.75	0.2	-0.56	-0.58	2	2	0	1500	1500	0
12/1/2024 11:22	14103	TRUM_T2	1	9	8	0.5	0.46	-0.04	0	0	0	0	0	0	0	0
12/1/2024 11:22	44905	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 11:22	65503	MOJO_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/1/2024 11:22	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 11:22	65502	MOJO_T2	0	0	0	0	0	0	-0.88	-1.08	0	0	0	0	0	0
12/1/2024 11:23	51004	NHAR_T1	2	2	0	5.85	5.7	-0.15	0	0	0	0	0	0	0	0
12/1/2024 11:23	65502	MOJO_T2	0	0	0	0	0	0	-0.88	-1.08	0	0	0	0	0	0
12/1/2024 11:23	51003	NHAR_T1	0	0	0	0	0	0	-1.4	-1.39	0	0	0	0	0	0
12/1/2024 11:23	51002	NHAR_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
12/1/2024 11:23	65503	MOJO_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/1/2024 11:24	14603	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/1/2024 11:24	14602	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/1/2024 11:24	14604	SWHI_T1	0	0	0	0	0	0	-0.47	0.05	2	1	-1	1500	900	-600
12/1/2024 11:26	20401	ASHF_T2	1	0	-1	0.1	0	-0.1	-0.26	-0.26	0	0	0	0	0	0
12/1/2024 11:26	20402	ASHF_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
12/1/2024 11:28	60902	DONG_T2	0	0	0	0	0	0	0.55	0.48	0	0	0	0	0	0
12/1/2024 11:29	58102	NEKI_T1	1	1	0	1.5	1.5	0	-1.23	-1.23	1	1	0	1200	1200	0
12/1/2024 11:29	64305	LINC_T1	0	1	1	0	0.9	0.9	-0.64	-0.69	0	0	0	0	0	0
12/1/2024 11:29	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/1/2024 11:29	66505	SMAN_T2	0	0	0	0	0	0	-0.21	-0.09	1	1	0	900	900	0
12/1/2024 11:29	66504	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
12/1/2024 11:29	58101	NEKI_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
12/1/2024 11:31	46801	HEPB_T2	2	2	0	0.5	0.7	0.2	0.61	0.62	0	0	0	0	0	0
12/1/2024 11:33	22601	KIMB_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/1/2024 11:33	22602	KIMB_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
12/1/2024 11:36	22405	MORG_T2	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
12/1/2024 11:36	22402	MORG_T2	17	17	0	1.95	2.15	0.2	0	0	0	0	0	0	0	0
12/1/2024 11:38	44301	BEAV_T2	8	5	-3	0.46	0.32	-0.14	0	0	0	0	0	0	0	0
12/1/2024 11:38	14603	SWHI_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/1/2024 11:38	44302	BEAV_T2	23	32	9	0.41	0.38	-0.03	-0.58	-0.64	0	0	0	0	0	0
12/1/2024 11:38	14602	SWHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/1/2024 11:41	45501	DERR_T2	0	2	2	0	0.2	0.2	0.28	0.31	1	1	0	600	600	0
12/1/2024 11:42	55105	WERT_T1	0	0	0	0	0	0	-0.47	-0.48	1	1	0	900	900	0
12/1/2024 11:42	45501	DERR_T2	0	2	2	0	0.2	0.2	0.28	0.31	1	1	0	600	600	0
12/1/2024 11:43	64305	LINC_T1	1	1	0	0.9	0.9	0	-0.69	-0.73	0	0	0	0	0	0
12/1/2024 11:43	44302	BEAV_T2	23	32	9	0.41	0.38	-0.03	-0.58	-0.64	0	0	0	0	0	0
12/1/2024 11:43	44301	BEAV_T2	8	5	-3	0.46	0.32	-0.14	0	0	1	1	0	600	600	0
12/1/2024 11:46	44501	HAMI_T2	5	5	0	0.1	0.14	0.04	0	0	0	0	0	0	0	0
12/1/2024 11:46	44502	HAMI_T2	1	1	0	2.7	3.2	0.5	0	0	0	0	0	0	0	0
12/1/2024 11:46	44505	HAMI_T2	2	3	1	0.5	0.33	-0.17	0.33	0.32	0	0	0	0	0	0
12/1/2024 11:47	58401	MORO_T1	0	0	0	0	0	0	-1.6	-1.66	2	2	0	1200	1200	0
12/1/2024 11:51	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.07	0	0	0	0	0	0
12/1/2024 11:52	13904	SEID_T1	20	11	-9	0.91	0.15	-0.76	0	0	0	0	0	0	0	0
12/1/2024 11:52	16101	BING_T2	1	1	0	0.6	0.6	0	0.51	0.52	0	0	0	0	0	0
12/1/2024 11:52	16102	BING_T2	7	8	1	0.19	0.23	0.04	0	0	0	0	0	0	0	0
12/1/2024 11:52	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.11	0	0	0	0	0	0
12/1/2024 11:52	16103	BING_T2	2	4	2	0.5	0.38	-0.12	0	0	0	0	0	0	0	0
12/1/2024 11:52	13905	SEID_T1	0	0	0	0	0	0	0.35	0.38	0	0	0	0	0	0
12/1/2024 11:53	22903	HARW_T1	6	17	11	0.98	0.33	-0.65	0	0	0	0	0	0	0	0
12/1/2024 11:53	22904	HARW_T1	5	12	7	0.64	0.78	0.14	0	0	0	0	0	0	0	0
12/1/2024 11:53	22901	HARW_T1	12	11	-1	0.85	0.6	-0.25	0	0	0	0	0	0	0	0
12/1/2024 11:53	22905	HARW_T1	84	72	-12	1.08	1.24	0.16	-0.34	-0.33	0	0	0	0	0	0
12/1/2024 11:54	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.07	0	0	0	0	0	0
12/1/2024 11:56	45501	DERR_T2	2	2	0	0.15	0.2	0.05	0.31	0.33	1	1	0	600	600	0
12/1/2024 11:58	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
12/1/2024 11:58	20402	ASHF_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/1/2024 11:58	20403	ASHF_T2	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
12/1/2024 12:03	40901	JESH_T1	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
12/1/2024 12:03	40902	JESH_T1	0	0	0	0	0	0	-1.34	-1.34	1	1	0	600	600	0
12/1/2024 12:06	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 12:06	13904	SEID_T1	9	4	-5	0.18	0.5	0.32	0	0	0	0	0	0	0	0
12/1/2024 12:07	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.02	0	0	0	0	0	0
12/1/2024 12:08	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.04	0	0	0	0	0	0
12/1/2024 12:09	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.01	0	0	0	0	0	0
12/1/2024 12:10	52501	PROG_T1	12	15	3	0.16	0.17	0.01	-0.51	-0.48	0	0	0	0	0	0
12/1/2024 12:11	28602	BLYT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 12:14	64402	LAND_T2	0	0	0	0	0	0	-0.6	-0.59	1	1	0	600	600	0
12/1/2024 12:15	22903	HARW_T1	15	30	15	0.73	1.06	0.33	0	0	0	0	0	0	0	0
12/1/2024 12:15	22901	HARW_T1	11	12	1	0.57	0.64	0.07	0	0	0	0	0	0	0	0
12/1/2024 12:15	22904	HARW_T1	10	9	-1	1.53	0.84	-0.69	0	0	0	0	0	0	0	0
12/1/2024 12:15	22905	HARW_T1	64	87	23	1.22	1.07	-0.15	-0.33	-0.33	0	0	0	0	0	0
12/1/2024 12:16	64701	LITI_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
12/1/2024 12:17	64403	LAND_T1	0	0	0	0	0	0	-1.99	-1.98	1	1	0	900	900	0
12/1/2024 12:18	13303	ORVI_T1	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
12/1/2024 12:23	64101	REFR_T1	0	0	0	0	0	0	-0.03	0.03	0	0	0	0	0	0
12/1/2024 12:24	64101	REFR_T1	0	0	0	0	0	0	-0.02	0.02	0	0	0	0	0	0
12/1/2024 12:25	66503	SMAN_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
12/1/2024 12:25	66504	SMAN_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
12/1/2024 12:25	66502	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/1/2024 12:25	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/1/2024 12:26	64101	REFR_T1	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
12/1/2024 12:27	46203	DANV_T2	1	1	0	1.8	0	-1.8	-1.84	-1.85	0	0	0	0	0	0
12/1/2024 12:27	52402	GRPA_T2	5	9	4	0.7	0.47	-0.23	-0.76	-0.73	0	0	0	0	0	0
12/1/2024 12:27	52403	GRPA_T2	27	28	1	0.48	0.54	0.06	0	0	0	0	0	0	0	0
12/1/2024 12:29	52402	GRPA_T2	5	9	4	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
12/1/2024 12:29	52404	GRPA_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
12/1/2024 12:29	52403	GRPA_T2	27	28	1	0.48	0.54	0.06	0	0	0	0	0	0	0	0
12/1/2024 12:30	40101	HUNT_T2	125	340	215	0.69	0.77	0.08	-1.94	-1.89	0	0	0	0	0	0
12/1/2024 12:30	52404	GRPA_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
12/1/2024 12:30	46203	DANV_T2	0	0	0	0	0	0	-1.84	-1.85	0	0	0	0	0	0
12/1/2024 12:30	52402	GRPA_T2	6	9	3	0.78	0.3	-0.48	0	0	0	0	0	0	0	0
12/1/2024 12:30	52403	GRPA_T2	25	15	-10	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
12/1/2024 12:33	40101	HUNT_T2	125	340	215	0.69	0.77	0.08	-1.94	-1.89	0	0	0	0	0	0
12/1/2024 12:37	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 12:40	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 12:40	67702	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 12:42	22903	HARW_T1	28	32	4	1.25	1.06	-0.19	0	0	0	0	0	0	0	0
12/1/2024 12:42	22904	HARW_T1	9	10	1	1.6	0.79	-0.81	0	0	0	0	0	0	0	0
12/1/2024 12:42	22901	HARW_T1	10	15	5	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
12/1/2024 12:42	22905	HARW_T1	67	98	31	1.06	1.07	0.01	-0.32	-0.32	0	0	0	0	0	0
12/1/2024 12:44	40101	HUNT_T2	125	340	215	0.69	0.77	0.08	-1.89	-1.46	0	0	0	0	0	0
12/1/2024 12:45	54505	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/1/2024 12:45	54501	ENOL_T2	0	0	0	0	0	0	-0.51	-0.52	1	1	0	600	600	0
12/1/2024 12:46	54504	ENOL_T2	0	0	0	0	0	0	-0.99	-1	1	1	0	600	600	0
12/1/2024 12:46	64204	KINZ_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
12/1/2024 12:46	64201	KINZ_T1	0	1	1	0	0.2	0.2	-1.08	-0.98	4	4	0	2400	2400	0
12/1/2024 12:46	54505	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/1/2024 12:51	64201	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/1/2024 12:51	64204	KINZ_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
12/1/2024 12:55	67402	WAKE_T2	0	0	0	0	0	0	-0.36	-0.37	1	1	0	600	600	0
12/1/2024 12:57	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 12:58	61001	DONV_T1	0	2	2	0	0.3	0.3	-0.06	-0.03	0	0	0	0	0	0
12/1/2024 12:58	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 12:58	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/1/2024 12:58	40702	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/1/2024 12:59	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/1/2024 13:14	53901	HALI_T2	1	1	0	0.5	0.7	0.2	-1.3	-1.36	0	0	0	0	0	0
12/1/2024 13:14	64305	LINC_T1	1	1	0	0.6	0.9	0.3	-0.75	-0.75	0	0	0	0	0	0
12/1/2024 13:14	53902	HALI_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
12/1/2024 13:14	53903	HALI_T2	3	3	0	0.77	0.7	-0.07	0	0	0	0	0	0	0	0
12/1/2024 13:19	52502	PROG_T2	0	0	0	0	0	0	0.55	0.5	0	0	0	0	0	0
12/1/2024 13:25	44302	BEAV_T2	6	24	18	0.42	0.27	-0.15	0	0	0	0	0	0	0	0
12/1/2024 13:25	44301	BEAV_T2	2	3	1	0.75	0.17	-0.58	0	0	0	1	1	0	600	600
12/1/2024 13:32	44501	HAMI_T2	11	1	-10	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
12/1/2024 13:32	44502	HAMI_T2	1	1	0	3.2	2.9	-0.3	-0.89	-0.82	0	0	0	0	0	0
12/1/2024 13:35	43201	MVIL_T2	0	0	0	0	0	0	-1.28	-1.28	0	0	0	0	0	0
12/1/2024 13:35	43202	MVIL_T2	2	1	-1	1.3	1.3	0	0	0	0	0	0	0	0	0
12/1/2024 13:40	57401	SPAN_T1	0	0	0	0	0	0	-2.84	-2.94	2	2	0	1200	1200	0
12/1/2024 13:40	57403	SPAN_T1	7	6	-1	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
12/1/2024 13:41	57401	SPAN_T1	0	0	0	0	0	0	-1.42	-1.47	1	1	0	600	600	0
12/1/2024 13:41	57403	SPAN_T1	7	6	-1	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
12/1/2024 13:43	57403	SPAN_T1	7	6	-1	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
12/1/2024 13:43	57401	SPAN_T1	0	0	0	0	0	0	-1.42	-1.47	1	1	0	600	600	0
12/1/2024 13:44	57403	SPAN_T1	7	6	-1	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
12/1/2024 13:44	57401	SPAN_T1	0	0	0	0	0	0	-1.42	-1.47	1	1	0	600	600	0
12/1/2024 13:50	41903	REED_T1	0	0	0	0	0	0	-0.56	-0.55	1	1	0	1200	1200	0
12/1/2024 13:50	41901	REED_T1	6	7	1	0.2	0.39	0.19	0	0	0	0	0	0	0	0
12/1/2024 13:56	57403	SPAN_T1	6	11	5	0.17	0.22	0.05	0.15	0.14	0	0	0	0	0	0
12/1/2024 14:15	41504	FAIR_T2	0	0	0	0	0	0	-0.4	-0.35	0	0	0	0	0	0
12/1/2024 14:15	25402	LAHA_T2	257	231	-26	0.76	0.85	0.09	-0.68	-0.68	0	0	0	0	0	0
12/1/2024 14:18	23502	GEOR_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
12/1/2024 14:19	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/1/2024 14:20	55002	NEWP_T1	6	7	1	0.48	0.56	0.08	0	0	0	0	0	0	0	0
12/1/2024 14:20	55001	NEWP_T1	0	0	0	0	0	0	-0.27	-0.19	0	0	0	0	0	0
12/1/2024 14:24	60301	TWVA_T2	0	1	1	0	0	0	-3.74	-3.9	4	4	0	3600	3600	0
12/1/2024 14:33	65603	QVIL_T2	0	0	0	0	0	0	-0.97	-0.95	0	0	0	0	0	0
12/1/2024 14:35	65603	QVIL_T2	0	0	0	0	0	0	-0.97	-0.95	0	0	0	0	0	0
12/1/2024 14:36	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 14:36	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 14:44	47203	FAXO_T2	1	1	0	0.9	0.6	-0.3	-2.37	-2.39	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/1/2024 14:47	24702	FLND_T2	11	12	1	0.25	0.25	0	-0.77	-0.68	1	1	0	1200	1200	0
12/1/2024 14:55	60803	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 14:58	24101	EHAZ_T1	39	34	-5	1.05	0.61	-0.44	0	0	0	0	0	0	0	0
12/1/2024 14:58	24105	EHAZ_T1	15	19	4	2.13	2.45	0.32	0	0	0	0	0	0	0	0
12/1/2024 14:58	24102	EHAZ_T1	6	11	5	0.68	0.38	-0.3	0.03	0.02	0	0	0	0	0	0
12/1/2024 15:12	51204	MTON_T2	0	0	0	0	0	0	-0.78	-0.77	1	1	0	900	900	0
12/1/2024 15:14	22904	HARW_T1	3	9	6	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
12/1/2024 15:14	22903	HARW_T1	26	31	5	1.7	2.06	0.36	0	0	0	0	0	0	0	0
12/1/2024 15:14	22905	HARW_T1	138	120	-18	1.3	1.06	-0.24	-0.31	-0.29	0	0	0	0	0	0
12/1/2024 15:14	22901	HARW_T1	27	27	0	0.73	0.55	-0.18	0	0	0	0	0	0	0	0
12/1/2024 15:18	22905	HARW_T1	106	142	36	1.1	1.29	0.19	-0.31	-0.29	0	0	0	0	0	0
12/1/2024 15:18	22901	HARW_T1	27	26	-1	0.86	0.66	-0.2	0	0	0	0	0	0	0	0
12/1/2024 15:18	22904	HARW_T1	2	10	8	0.2	0.43	0.23	0	0	0	0	0	0	0	0
12/1/2024 15:18	22903	HARW_T1	31	27	-4	1.93	2.07	0.14	0	0	0	0	0	0	0	0
12/1/2024 15:25	44902	SCOT_T2	0	0	0	0	0	0	-0.94	-0.93	0	0	0	0	0	0
12/1/2024 15:44	44301	BEAV_T2	6	2	-4	0.83	1.3	0.47	0	0	1	1	0	600	600	0
12/1/2024 15:44	12006	HATF_T1	2	2	0	0.15	0.3	0.15	0.03	0.06	0	0	0	0	0	0
12/1/2024 15:44	45501	DERR_T2	0	1	1	0	0	0	0.35	0.33	1	1	0	600	600	0
12/1/2024 15:44	12005	HATF_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
12/1/2024 15:44	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 15:44	40602	PIGR_T1	2	2	0	1.7	1.65	-0.05	0	0	0	0	0	0	0	0
12/1/2024 15:45	63801	HEMP_T1	0	0	0	0	0	0	-0.36	-0.23	0	0	0	0	0	0
12/1/2024 15:45	63804	HEMP_T1	2	9	7	3.15	3.25	0.1	0	0	0	0	0	0	0	0
12/1/2024 15:58	11102	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 15:59	45501	DERR_T2	0	1	1	0	0.4	0.4	0.33	0.36	1	1	0	600	600	0
12/1/2024 16:22	16102	BING_T2	1	0	-1	0.2	0	-0.2	-0.11	-0.09	0	0	0	0	0	0
12/1/2024 18:30	22405	MORG_T2	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
12/1/2024 18:30	22402	MORG_T2	17	0	0	1.38	1.45	0.07	0	0	0	0	0	0	0	0
12/1/2024 18:30	22406	MORG_T2	2	2	0	0.25	0	-0.25	0	0	0	0	0	0	0	0
12/1/2024 18:31	44302	BEAV_T2	0	0	0	0	0	0	-1.3	-1.32	0	0	0	0	0	0
12/1/2024 18:32	26704	HEML_T2	0	0	0	0	0	0	-0.79	-0.79	1	1	0	1200	1200	0
12/1/2024 18:34	22904	HARW_T1	17	9	-8	0.39	0.9	0.51	0	0	0	0	0	0	0	0
12/1/2024 18:34	22901	HARW_T1	17	31	14	0.48	0.84	0.36	0	0	0	0	0	0	0	0
12/1/2024 18:34	22905	HARW_T1	146	156	10	1.47	0.96	-0.51	-0.22	-0.2	0	0	0	0	0	0
12/1/2024 18:34	22903	HARW_T1	31	31	0	2.55	1.69	-0.86	0	0	0	0	0	0	0	0
12/1/2024 18:35	47203	FAXO_T2	1	1	0	1.7	1.6	-0.1	-2.34	-2.32	1	1	0	1200	1200	0
12/1/2024 18:36	16101	BING_T2	0	0	0	0	0	0	0.6	0.65	0	0	0	0	0	0
12/1/2024 18:36	16103	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:36	13303	ORVI_T1	0	0	0	0	0	0	0.69	0.81	0	0	0	0	0	0
12/1/2024 18:37	45502	DERR_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
12/1/2024 18:37	45701	LIND_T2	0	0	0	0	0	0	-1.75	-1.73	0	0	0	0	0	0
12/1/2024 18:37	45501	DERR_T2	2	3	1	0.1	0.8	0.7	0.2	0.16	1	1	0	600	600	0
12/1/2024 18:38	45702	LIND_T2	0	0	0	0	0	0	-1.73	-1.72	0	0	0	0	0	0
12/1/2024 18:38	46002	BERW_T2	0	0	0	0	0	0	-1.45	-1.44	1	1	0	900	900	0
12/1/2024 18:38	46004	BERW_T2	11	18	7	0.47	0.42	-0.05	0	0	0	0	0	0	0	0
12/1/2024 18:39	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:39	57401	SPAN_T1	0	0	0	0	0	0	-1.36	-1.35	1	1	0	600	600	0
12/1/2024 18:40	63501	HEID_TBK1-2	0	32	32	0	0.3	0.3	-0.44	-0.52	1	1	0	900	900	0
12/1/2024 18:40	14201	EALL_T1	0	0	0	0	0	0	0.62	0.52	0	0	0	0	0	0
12/1/2024 18:40	45502	DERR_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
12/1/2024 18:40	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:40	46203	DANV_T2	1	2	1	0.2	0.1	-0.1	-2.73	-2.71	0	0	0	0	0	0
12/1/2024 18:40	63804	HEMP_T1	8	1	-7	1.24	6	4.76	0	0	0	0	0	0	0	0
12/1/2024 18:40	57401	SPAN_T1	0	0	0	0	0	0	-2.72	-2.69	2	2	0	1200	1200	0
12/1/2024 18:40	45501	DERR_T2	2	3	1	0.1	0.8	0.7	0.2	0.16	1	1	0	600	600	0
12/1/2024 18:40	63801	HEMP_T1	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
12/1/2024 18:41	64101	REFR_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
12/1/2024 18:41	45502	DERR_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
12/1/2024 18:41	25503	MADI_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
12/1/2024 18:41	45501	DERR_T2	2	3	1	0.1	0.8	0.7	0.41	0.33	2	2	0	1200	1200	0
12/1/2024 18:41	25501	MADI_T1	60	29	-31	0.44	0.63	0.19	0	0	0	0	0	0	0	0
12/1/2024 18:42	12005	HATF_T1	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/1/2024 18:42	25402	LAHA_T2	473	458	-15	1.54	1.24	-0.3	-0.55	-0.62	0	0	0	0	0	0
12/1/2024 18:42	45502	DERR_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
12/1/2024 18:42	12006	HATF_T1	2	2	0	0.8	0.7	-0.1	0.2	0.2	0	0	0	0	0	0
12/1/2024 18:42	44201	POIN_T1	81	102	21	0.25	0.25	0	-2.02	-2.14	1	1	0	1200	1200	0
12/1/2024 18:42	57401	SPAN_T1	0	0	0	0	0	0	-2.72	-2.69	2	2	0	1200	1200	0
12/1/2024 18:42	14604	MWH_T1	0	0	0	0	0	0	-0.52	-0.56	2	2	0	1500	1500	0
12/1/2024 18:42	63501	HEID_TBK1-2	0	32	32	0	0.3	0.3	-0.44	-0.52	1	1	0	900	900	0
12/1/2024 18:42	45501	DERR_T2	2	3	1	0.1	0.8	0.7	0.2	0.16	1	1	0	600	600	0
12/1/2024 18:42	11104	EGYP_T1	1	1	0	1.2	0	-1.2	-0.43	-0.44	1	1	0	900	900	0
12/1/2024 18:43	22904	HARW_T1	17	9	-8	0.39	0.9	0.51	0	0	0	0	0	0	0	0
12/1/2024 18:43	64203	KINZ_T1	6	6	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/1/2024 18:43	60101	COCA_T1	0	0	0	0	0	0	0.82	0.78	0	0	0	0	0	0
12/1/2024 18:43	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:43	22602	KIMB_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
12/1/2024 18:43	22903	HARW_T1	31	31	0	2.55	1.69	-0.86	0	0	0	0	0	0	0	0
12/1/2024 18:43	22901	HARW_T1	17	31	14	0.48	0.84	0.36	0	0	0	0	0	0	0	0
12/1/2024 18:43	24103	EHAZ_T1	4	5	1	1.78	1.32	-0.46	0	0	0	0	0	0	0	0
12/1/2024 18:43	24105	EHAZ_T1	6	6	0	4.55	4.27	-0.28	0	0	0	0	0	0	0	0
12/1/2024 18:43	22905	HARW_T1	146	156	10	1.47	0.96	-0.51	-0.2	-0.23	0	0	0	0	0	0
12/1/2024 18:43	24102	EHAZ_T1	21	8	-13	0.44	0.5	0.06	0.08	0.07	0	0	0	0	0	0
12/1/2024 18:43	64201	KINZ_T1	0	0	0	0	0	0	-1.7	-1.65	6	6	0	3000	3000	0
12/1/2024 18:43	45702	LIND_T2	0	0	0	0	0	0	-1.73	-1.72	0	0	0	0	0	0
12/1/2024 18:43	64204	KINZ_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
12/1/2024 18:43	24101	EHAZ_T1	45	40	-5	1.65	1.29	-0.36	0	0	0	0	0	0	0	0
12/1/2024 18:43	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:43	66505	SMAN_T2	1	3	2	0.3	0.63	0.33	0	0	0	0	0	0	0	0
12/1/2024 18:43	46203	DANV_T2	1	2	1	0.2	0.1	-0.1	-2.73	-2.71	0	0	0	0	0	0
12/1/2024 18:43	66504	SMAN_T2	0	0	0	0	0	0	-3.26	-0.68	2	0	-2	2400	0	-2400
12/1/2024 18:43	67702	WERN_T2	94	157	63	0.45	0.47	0.02	0	0	0	0	0	0	0	0
12/1/2024 18:44	16102	BING_T2	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
12/1/2024 18:44	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:44	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/1/2024 18:44	54203	PENN_T1	5	12	7	0.7	0.38	-0.32	0	0	0	0	0	0	0	0
12/1/2024 18:44	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:44	54201	PENN_T1	3	3	0	0.97	1.27	0.3	-1.4	-1.41	0	0	0	0	0	0
12/1/2024 18:44	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/1/2024 18:44	60101	COCA_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
12/1/2024 18:44	41902	REED_T1	20	30	10	0.91	0.56	-0.35	0	0	0	0	0	0	0	0
12/1/2024 18:44	16103	BING_T2	0	1	1	0	0	0	-2.01	-2.05	2	2	0	1500	1500	0
12/1/2024 18:44	67702	WERN_T2	94	157	63	0.45	0.47	0.02	0	0	0	0	0	0	0	0
12/1/2024 18:44	41903	REED_T1	0	0	0	0	0	0	-0.51	-0.48	1	1	0	1200	1200	0
12/1/2024 18:44	54506	ENOL_T2	0	0	0	0	0	0	0.53	0.41	1	1	0	600	600	0
12/1/2024 18:45	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:45	65207	PRIN_T4	3	4	1	2.37	0.63	-1.74	0	0	0	0	0	0	0	0
12/1/2024 18:45	43202	MVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
12/1/2024 18:45	57401	SPAN_T1	0	0	0	0	0	0	-1.36	-1.35	1	1	0	600	600	0
12/1/2024 18:45	65206	PRIN_T4	0	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0
12/1/2024 18:45	66505	SMAN_T2	3	3	0	0.3	0.63	0.33	0	0	0	0	0	0	0	0
12/1/2024 18:45	66504	SMAN_T2	0	0	0	0	0	0	-1.63	-0.34	1	0	-1	1200	0	-1200
12/1/2024 18:45	44801	EDAN_T2	0	1	1	0	0.7	0.7	-0.44	-0.43	0	0	0	0	0	0
12/1/2024 18:45	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/1/2024 18:45	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:45	41602	CLEV_T1	2	1	-1	0.15	0	-0.15	0	0	1	1	0	600	600	0
12/1/2024 18:45	43201	MVIL_T2	0	2	2	0	0.8	0.8	-1.26	-1.24	0	0	0	0	0	0
12/1/2024 18:45	54501	ENOL_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	600	600	0
12/1/2024 18:46	43202	MVIL_T2	3	2	-1	1.23	0	-1.23	-0.56	-0.56	0	0	0	0	0	0
12/1/2024 18:46	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	-0.35	-0.34	0	0	0	0	0	0
12/1/2024 18:46	64101	REFR_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
12/1/2024 18:46	63501	HEID_TBK1-2	0	36	36	0	0.49	0.49	-0.44	-0.52	1	1	0	900	900	0
12/1/2024 18:46	44801	EDAN_T2	4	1	-3	0.48	0.7	0.22	-0.44	-0.43	0	0	0	0	0	0
12/1/2024 18:46	49803	UNIV_T1	1	1	0	6.1	6.1	0	-0.99	-0.88	0	0	0	0	0	0
12/1/2024 18:46	49804	UNIV_T1	1	3	2	1.3	1	-0.3	0	0	0	0	0	0	0	0
12/1/2024 18:46	65202	PRIN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/1/2024 18:46	22905	HARW_T1	133	115	-18	1.19	1.08	-0.11	0	0	0	0	0	0	0	0
12/1/2024 18:46	57401	SPAN_T1	0	0	0	0	0	0	-1.36	-1.35	1	1	0	600	600	0
12/1/2024 18:46	23502	GEOR_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
12/1/2024 18:46	52402	GRPA_T2	9	12	3	0.51	0.4	-0.11	0	0	0	0	0	0	0	0
12/1/2024 18:46	22904	HARW_T1	9	1	-8	0.58	0.3	-0.28	0	0	0	0	0	0	0	0
12/1/2024 18:46	46801	HEPB_T2	2	2	0	1.8	1.85	0.05	-0.34	-0.37	0	0	0	0	0	0
12/1/2024 18:46	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:46	61302	EARL_T1	0	0	0	0	0	0	-0.53	-0.58	2	2	0	1800	1800	0
12/1/2024 18:46	13904	SEID_T1	38	71	33	1.06	0.78	-0.28	0	0	0	0	0	0	0	0
12/1/2024 18:46	52401	GRPA_T2	13	4	-9	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
12/1/2024 18:46	22903	HARW_T1	30	31	1	1.94	3.37	1.43	0	0	0	0	0	0	0	0
12/1/2024 18:46	22901	HARW_T1	16	33	17	1.01	0.43	-0.58	-1.73	-1.66	1	1	0	1200	1200	0
12/1/2024 18:46	52403	GRPA_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:46	46803	HEPB_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/1/2024 18:46	14204	EALL_T2	0	0	0	0	0	0	-1.32	-1.24	0	0	0	0	0	0
12/1/2024 18:46	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/1/2024 18:46	43201	MVIL_T2	4	2	-2	0.5	1	0.5	0	0	0	0	0	0	0	0
12/1/2024 18:46	65205	PRIN_T1	1	2	1	1.1	1.1	0	0	0	0	0	0	0	0	0
12/1/2024 18:46	13905	SEID_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
12/1/2024 18:47	54203	PENN_T1	12	13	1	0.33	0.36	0.03	-0.05	-0.04	0	0	0	0	0	0
12/1/2024 18:47	55002	NEWP_T1	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
12/1/2024 18:47	40902	JESH_T1	0	0	0	0	0	0	-1.89	-1.94	2	2	0	1200	1200	0
12/1/2024 18:47	44201	POIN_T1	72	107	35	0.2	0.26	0.06	-4.03	-4.27	2	2	0	2400	2400	0
12/1/2024 18:47	54201	PENN_T1	3	3	0	1.07	1.3	0.23	0	0	0	0	0	0	0	0
12/1/2024 18:47	65503	MOJO_T2	0	0	0	0	0	0	-0.47	-0.44	0	0	0	0	0	0
12/1/2024 18:47	67702	WERN_T2	84	157	73	0.48	0.49	0.01	0	0	0	0	0	0	0	0
12/1/2024 18:47	64101	REFR_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
12/1/2024 18:47	40901	JESH_T1	1	1	0	1.6	1	-0.6	0	0	0	0	0	0	0	0
12/1/2024 18:47	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:47	61303	EARL_T1	0	1	1	0	0	0	0.08	0.05	0	0	0	0	0	0
12/1/2024 18:47	63305	GREE_T1	2	2	0	0.15	0.3	0.15	-2.63	-2.66	1	1	0	900	900	0
12/1/2024 18:47	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/1/2024 18:47	66505	SMAN_T2	3	3	0	0.3	0.63	0.33	-0.57	-0.5	1	1	0	900	900	0
12/1/2024 18:48	51006	NHAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:48	44501	HAMI_T2	9	16	7	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
12/1/2024 18:48	46203	DANV_T2	0	3	3	0	0.1	0.1	-5.45	-5.42	0	0	0	0	0	0
12/1/2024 18:48	51004	NHAR_T1	2	2	0	6.5	6.45	-0.05	0	0	0	0	0	0	0	0
12/1/2024 18:48	44905	SCOT_T1	47	41	-6	0.79	0.33	-0.46	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/1/2024 18:48	52501	PROG_T1	0	1	1	0	0.1	0.1	-0.78	-0.82	1	1	0	300	300	0
12/1/2024 18:48	66505	SMAN_T2	3	3	0	0.3	0.63	0.33	0	0	0	0	0	0	0	0
12/1/2024 18:48	44505	HAMI_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
12/1/2024 18:48	44201	POIN_T1	72	107	35	0.2	0.26	0.06	-2.02	-2.14	1	1	0	1200	1200	0
12/1/2024 18:48	40101	HUNT_T2	593	676	83	2.22	2.03	-0.19	-1.51	-1.51	0	0	0	0	0	0
12/1/2024 18:48	41504	FAIR_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
12/1/2024 18:48	24701	FLND_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/1/2024 18:48	10801	CHHI_T1	2	0	-2	1.3	0	-1.3	-4	-4.02	6	6	0	4200	4200	0
12/1/2024 18:48	64403	LAND_T1	0	0	0	0	0	0	-1.94	-1.99	1	1	0	900	900	0
12/1/2024 18:48	14601	SWHI_T1	0	0	0	0	0	0	-1.31	-1.31	0	0	0	0	0	0
12/1/2024 18:48	62106	ELAN_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
12/1/2024 18:48	51003	NHAR_T1	0	0	0	0	0	0	-1.25	-1.29	0	0	0	0	0	0
12/1/2024 18:48	54201	PENN_T1	3	3	0	1.07	1.3	0.23	0	0	0	0	0	0	0	0
12/1/2024 18:48	15203	SFAR_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/1/2024 18:48	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:48	57401	SPAN_T1	0	0	0	0	0	0	-1.36	-1.35	1	1	0	600	600	0
12/1/2024 18:48	51002	NHAR_T1	2	1	-1	0.6	0.6	0	0	0	0	0	0	0	0	0
12/1/2024 18:48	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:48	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:48	54203	PENN_T1	12	13	1	0.33	0.36	0.03	-0.05	-0.04	0	0	0	0	0	0
12/1/2024 18:48	66504	SMAN_T2	0	0	0	0	0	0	-1.63	-0.34	1	0	-1	1200	0	-1200
12/1/2024 18:48	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:48	24702	FLND_T2	11	16	5	0.29	0.54	0.25	-0.72	-0.87	1	1	0	1200	1200	0
12/1/2024 18:48	67702	WERN_T2	84	157	73	0.48	0.49	0.01	0	0	0	0	0	0	0	0
12/1/2024 18:48	44502	HAMI_T2	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
12/1/2024 18:48	15204	SFAR_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
12/1/2024 18:48	11104	EGYP_T1	1	0	-1	0.8	0	-0.8	-0.43	-0.44	1	1	0	900	900	0
12/1/2024 18:48	40602	PIGR_T1	1	1	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
12/1/2024 18:49	44201	POIN_T1	72	107	35	0.2	0.26	0.06	-2.02	-2.14	1	1	0	1200	1200	0
12/1/2024 18:49	28604	BLYT_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
12/1/2024 18:49	44902	SCOT_T2	0	0	0	0	0	0	-2.21	-2.25	0	0	0	0	0	0
12/1/2024 18:49	52501	PROG_T1	0	1	1	0	0.1	0.1	-1.56	-1.64	2	2	0	600	600	0
12/1/2024 18:49	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:49	57201	ROSS_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
12/1/2024 18:49	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/1/2024 18:49	44301	BEAV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:49	65502	MOJO_T2	0	0	0	0	0	0	-1.22	-1.22	0	0	0	0	0	0
12/1/2024 18:49	60101	COCA_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
12/1/2024 18:49	54504	ENOL_T2	0	0	0	0	0	0	-1.6	-1.57	1	1	0	600	600	0
12/1/2024 18:49	44302	BEAV_T2	0	0	0	0	0	0	-1.32	-1.27	0	0	0	0	0	0
12/1/2024 18:49	41902	REED_T1	20	32	12	0.64	0.45	-0.19	0.08	0.08	1	1	0	900	900	0
12/1/2024 18:49	28602	BLYT_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/1/2024 18:50	44301	BEAV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:50	22903	HARW_T1	30	31	1	1.94	3.37	1.43	0	0	0	0	0	0	0	0
12/1/2024 18:50	64305	LINC_T1	0	0	0	0	0	0	-0.66	-0.69	0	0	0	0	0	0
12/1/2024 18:50	22905	HARW_T1	133	115	-18	1.19	1.08	-0.11	-0.39	-0.46	0	0	0	0	0	0
12/1/2024 18:50	40101	HUNT_T2	593	676	83	2.22	2.03	-0.19	-1.51	-1.51	0	0	0	0	0	0
12/1/2024 18:50	52502	PROG_T2	0	0	0	0	0	0	-0.36	-0.42	1	1	0	900	900	0
12/1/2024 18:50	61001	DONV_T1	0	0	0	0	0	0	-0.06	-0.02	0	0	0	0	0	0
12/1/2024 18:50	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:50	52501	PROG_T1	0	1	1	0	0.1	0.1	-0.78	-0.82	1	1	0	300	300	0
12/1/2024 18:50	14102	TRUM_T2	1	1	0	6.6	6.4	-0.2	-0.58	-0.59	2	2	0	1500	1500	0
12/1/2024 18:50	67702	WERN_T2	84	157	73	0.48	0.49	0.01	0	0	0	0	0	0	0	0
12/1/2024 18:50	63501	HEID_TBK1-2	0	36	36	0	0.49	0.49	-0.44	-0.52	1	1	0	900	900	0
12/1/2024 18:50	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/1/2024 18:50	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:50	11104	EGYP_T1	1	0	-1	0.8	0	-0.8	-0.43	-0.44	1	1	0	900	900	0
12/1/2024 18:50	65802	RTWN_T2	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
12/1/2024 18:50	22904	HARW_T1	9	1	-8	0.58	0.3	-0.28	0	0	0	0	0	0	0	0
12/1/2024 18:50	44302	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:50	44905	SCOT_T1	47	41	-6	0.79	0.33	-0.46	0	0	0	0	0	0	0	0
12/1/2024 18:50	22901	HARW_T1	16	33	17	1.01	0.43	-0.58	0	0	0	0	0	0	0	0
12/1/2024 18:50	57403	SPAN_T1	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
12/1/2024 18:51	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:51	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:51	63305	GREE_T1	2	2	0	0.15	0.3	0.15	-2.66	-2.61	1	1	0	900	900	0
12/1/2024 18:51	53902	HALI_T2	1	1	0	4.5	4.5	0	0	0	0	0	0	0	0	0
12/1/2024 18:51	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/1/2024 18:51	44201	POIN_T1	72	107	35	0.2	0.26	0.06	-2.02	-2.14	1	1	0	1200	1200	0
12/1/2024 18:51	53901	HALI_T2	0	0	0	0	0	0	-1.4	-1.38	0	0	0	0	0	0
12/1/2024 18:51	67702	WERN_T2	84	157	73	0.48	0.49	0.01	0	0	0	0	0	0	0	0
12/1/2024 18:51	60803	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:52	57401	SPAN_T1	0	0	0	0	0	0	-1.35	-1.29	1	1	0	600	600	0
12/1/2024 18:52	66505	SMAN_T2	3	3	0	0.3	0.63	0.33	0	0	0	0	0	0	0	0
12/1/2024 18:52	67801	WLAN_T1	0	0	0	0	0	0	-1.01	-1.05	0	0	0	0	0	0
12/1/2024 18:52	67804	WLAN_T1	10	10	0	2.03	1.8	-0.23	0	0	0	0	0	0	0	0
12/1/2024 18:52	67702	WERN_T2	84	157	73	0.48	0.49	0.01	0	0	0	0	0	0	0	0
12/1/2024 18:52	65603	QVIL_T2	0	0	0	0	0	0	-0.91	-0.9	0	0	0	0	0	0
12/1/2024 18:52	67805	WLAN_T1	4	14	10	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/1/2024 18:52	64101	REFR_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
12/1/2024 18:52	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:52	66504	SMAN_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
12/1/2024 18:52	58003	WCAR_T1	1	1	0	0.2	0.3	0.1	-0.18	-0.19	1	1	0	600	600	0
12/1/2024 18:52	65604	QVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:53	66502	MOJO_T2	0	0	0	0	0	0	-1.22	-1.18	0	0	0	0	0	0
12/1/2024 18:53	67702	WERN_T2	84	157	73	0.48	0.49	0.01	0	0	0	0	0	0	0	0
12/1/2024 18:53	64101	REFR_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
12/1/2024 18:53	55002	NEWP_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
12/1/2024 18:53	43201	MVIL_T2	4	2	-2	0.5	1	0.5	0	0	0	0	0	0	0	0
12/1/2024 18:53	20401	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/1/2024 18:53	20403	ASHF_T2	2	0	-2	0.1	0	-0.1	0.57	0.5	0	0	0	0	0	0
12/1/2024 18:53	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/1/2024 18:53	66504	SMAN_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
12/1/2024 18:53	66505	SMAN_T2	3	3	0	0.3	0.63	0.33	0	0	0	0	0	0	0	0
12/1/2024 18:53	64402	LAND_T2	0	0	0	0	0	0	-0.54	-0.56	1	1	0	600	600	0
12/1/2024 18:53	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:53	40101	HUNT_T2	593	676	83	2.22	2.03	-0.19	-1.51	-1.52	0	0	0	0	0	0
12/1/2024 18:53	20402	ASHF_T2	1	4	3	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/1/2024 18:53	43202	MVIL_T2	3	2	-1	1.23	0	-1.23	-0.56	-0.57	0	0	0	0	0	0
12/1/2024 18:54	14403	SSLA_T1	5	7	2	0.42	0.2	-0.22	0.23	0.21	1	1	0	600	600	0
12/1/2024 18:54	58401	MORO_T1	1	1	0	0.5	0	-0.5	-1.61	-1.63	2	2	0	1200	1200	0
12/1/2024 18:54	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:54	46203	DANV_T2	0	3	3	0	0.1	0.1	-2.71	-2.67	0	0	0	0	0	0
12/1/2024 18:54	57205	ROSS_T1	0	0	0	0	0	0	-0.83	-0.82	1	1	0	900	900	0
12/1/2024 18:55	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:55	57401	SPAN_T1	0	0	0	0	0	0	-1.35	-1.29	1	1	0	600	600	0
12/1/2024 18:55	57403	SPAN_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
12/1/2024 18:55	64203	KINZ_T1	6	1	-5	0.43	0	-0.43	0	0	0	0	0	0	0	0
12/1/2024 18:55	44301	BEAV_T2	0	2	2	0	0	0	0	0	1	1	0	600	600	0
12/1/2024 18:55	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:55	14403	SSLA_T1	5	7	2	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
12/1/2024 18:55	66503	SMAN_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
12/1/2024 18:55	64204	KINZ_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
12/1/2024 18:55	63501	HEID_TBK1-2	0	36	36	0	0.49	0.49	-1.03	-0.93	2	2	0	1800	1800	0
12/1/2024 18:55	66505	SMAN_T2	3	3	0	0.3	0.63	0.33	0	0	0	0	0	0	0	0
12/1/2024 18:56	65604	QVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:56	44301	BEAV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:56	45502	DERR_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
12/1/2024 18:56	57403	SPAN_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
12/1/2024 18:56	45501	DERR_T2	3	1	-2	0.53	0.4	-0.13	0.16	0.19	1	1	0	600	600	0
12/1/2024 18:56	65603	QVIL_T2	0	0	0	0	0	0	-0.91	-0.9	0	0	0	0	0	0
12/1/2024 18:57	64101	REFR_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
12/1/2024 18:57	52502	PROG_T2	0	0	0	0	0	0	-0.83	-0.72	2	2	0	1800	1800	0
12/1/2024 18:57	58202	NEWV_T1	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
12/1/2024 18:57	44201	POIN_T1	72	107	35	0.2	0.26	0.06	-2.14	-2.04	1	1	0	1200	1200	0
12/1/2024 18:57	46004	BERW_T2	17	11	-6	0.48	0.67	0.19	-0.77	-0.74	0	0	0	0	0	0
12/1/2024 18:58	65604	QVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:58	64101	REFR_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
12/1/2024 18:58	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:58	63804	HEMP_T1	1	2	1	6	6.1	0.1	0	0	0	0	0	0	0	0
12/1/2024 18:58	63801	HEMP_T1	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
12/1/2024 18:58	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 18:59	64204	KINZ_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
12/1/2024 18:59	58202	NEWV_T1	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
12/1/2024 18:59	64101	REFR_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
12/1/2024 18:59	63804	HEMP_T1	1	2	1	6	6.1	0.1	0	0	0	0	0	0	0	0
12/1/2024 18:59	64203	KINZ_T1	6	1	-5	0.43	0	-0.43	-0.41	-0.48	1	1	0	600	600	0
12/1/2024 18:59	63801	HEMP_T1	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
12/1/2024 19:00	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 19:01	63305	GREE_T1	2	2	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/1/2024 19:01	44301	BEAV_T2	0	2	2	0	0	0	0	0	1	1	0	600	600	0
12/1/2024 19:01	52403	GRPA_T2	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
12/1/2024 19:01	52401	GRPA_T2	4	3	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
12/1/2024 19:01	52402	GRPA_T2	8	8	0	0.74	0.33	-0.41	-0.7	-0.73	0	0	0	0	0	0
12/1/2024 19:01	63302	GREE_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
12/1/2024 19:01	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/1/2024 19:02	51202	MTON_T2	0	0	0	0	0	0	-0.95	-0.96	1	1	0	1200	1200	0
12/1/2024 19:02	65502	MOJO_T2	0	0	0	0	0	0	-1.22	-1.18	0	0	0	0	0	0
12/1/2024 19:03	55001	NEWP_T1	0	0	0	0	0	0	-0.81	-0.83	1	1	0	600	600	0
12/1/2024 19:03	55105	WERT_T1	0	0	0	0	0	0	-0.34	-0.34	1	1	0	900	900	0
12/1/2024 19:11	52502	PROG_T2	0	0	0	0	0	0	-0.36	-0.38	1	1	0	900	900	0
12/1/2024 19:18	60101	COCA_T1	0	0	0	0	0	0	0.4	0.36	0	0	0	0	0	0
12/1/2024 19:26	44502	HAMI_T2	1	1	0	2.8	2.9	0.1	-0.86	-0.86	0	0	0	0	0	0
12/1/2024 19:26	44501	HAMI_T2	15	9	-6	0.13	0.13	0	0	0	0	0	0	0	0	0
12/1/2024 19:31	60301	TWVA_T2	3	1	-2	0.43	0.3	-0.13	-3.83	-3.73	4	4	0	3600	3600	0
12/1/2024 20:25	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 7:42	62604	ENGL_T1	1	16	15	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
12/2/2024 7:42	62606	ENGL_T1	0	17	17	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 7:42	62605	ENGL_T1	0	0	0	0	0	0	-1.14	-1.16	0	0	0	0	0	0
12/2/2024 7:58	17805	GILB_T2	6	10	4	1.62	3.9	2.28	-0.11	-0.13	0	0	0	0	0	0
12/2/2024 8:03	43201	MVIL_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
12/2/2024 8:09	66701	STRA_T1	0	0	0	0	0	0	0.09	0.08	1	1	0	600	600	0
12/2/2024 8:12	16103	BING_T2	0	0	0	0	0	0	-1.43	-1.45	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/2/2024 8:20	54201	PENN_T1	174	7	-167	0.51	0.47	-0.04	-1.34	0.9	0	0	0	0	0	0
12/2/2024 8:20	54203	PENN_T1	272	18	-254	0.28	0.9	0.62	0	0	0	0	0	0	0	0
12/2/2024 8:20	54205	PENN_T1	34	0	-34	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/2/2024 8:21	67002	STHI_T2	0	1	1	0	0.1	0.1	0.68	0.69	0	0	0	0	0	0
12/2/2024 8:21	57201	ROSS_T1	0	2	2	0	0.1	0.1	-0.56	-0.58	0	0	0	0	0	0
12/2/2024 8:21	67001	STHI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
12/2/2024 8:26	45501	DERR_T2	2	2	0	0.3	0	-0.3	0.27	0.14	4	4	0	3600	3600	0
12/2/2024 8:28	14204	EALL_T2	0	0	0	0	0	0	0.29	0.24	0	0	0	0	0	0
12/2/2024 8:28	10805	CHHI_T2	1	10	9	7.6	1.8	-5.8	-0.92	-0.46	1	0	-1	600	0	-600
12/2/2024 8:32	12006	HATF_T1	2	2	0	1.3	1.05	-0.25	0.24	0.31	1	1	0	1200	1200	0
12/2/2024 8:33	45702	LIND_T2	5	3	-2	0.18	0.13	-0.05	-1.59	-1.62	0	0	0	0	0	0
12/2/2024 8:36	67002	STHI_T2	0	1	1	0	0.2	0.2	0.69	0.67	0	0	0	0	0	0
12/2/2024 8:36	67001	STHI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/2/2024 8:36	56501	ROCK_T2	12	44	32	0.38	0.25	-0.13	-1.62	-1.63	0	0	0	0	0	0
12/2/2024 8:37	55002	NEWP_T1	4	6	2	0.4	0.37	-0.03	-0.14	-0.18	0	0	0	0	0	0
12/2/2024 8:37	55001	NEWP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/2/2024 8:37	56501	ROCK_T2	12	44	32	0.38	0.25	-0.13	-1.63	-1.64	0	0	0	0	0	0
12/2/2024 8:38	44902	SCOT_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
12/2/2024 8:38	67002	STHI_T2	0	1	1	0	0.2	0.2	1.38	1.34	0	0	0	0	0	0
12/2/2024 8:38	67001	STHI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/2/2024 8:39	24901	WHHA_T1	0	0	0	0	0	0	-0.59	-0.56	0	0	0	0	0	0
12/2/2024 8:39	67002	STHI_T2	0	1	1	0	0.2	0.2	0.69	0.67	0	0	0	0	0	0
12/2/2024 8:39	24902	WHHA_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
12/2/2024 8:39	57201	ROSS_T1	2	0	-2	0.1	0	-0.1	-0.42	-0.53	0	0	0	0	0	0
12/2/2024 8:39	67001	STHI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/2/2024 8:39	56501	ROCK_T2	12	44	32	0.38	0.25	-0.13	-1.63	-1.64	0	0	0	0	0	0
12/2/2024 8:41	46206	DANV_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/2/2024 8:41	46203	DANV_T2	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
12/2/2024 8:41	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 8:47	25402	LAHA_T2	10	16	6	0.62	0.8	0.18	-0.57	-0.58	0	0	0	0	0	0
12/2/2024 8:47	45701	LIND_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
12/2/2024 8:47	45702	LIND_T2	2	4	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/2/2024 8:50	41901	REED_T1	6	7	1	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
12/2/2024 8:50	41902	REED_T1	2	4	2	0.45	0	-0.45	0.51	0.55	0	0	0	0	0	0
12/2/2024 8:50	46101	MACI_T2	0	0	0	0	0	0	0.5	0.49	1	1	0	1200	1200	0
12/2/2024 8:50	61103	BERK_T5	0	0	0	0	0	0	-0.01	0.38	0	0	0	0	0	0
12/2/2024 8:51	67702	WERN_T2	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
12/2/2024 8:51	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 8:52	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
12/2/2024 8:52	47401	PENS_T1	0	0	0	0	0	0	-0.82	-0.75	0	0	0	0	0	0
12/2/2024 8:53	55002	NEWP_T1	5	6	1	0.42	0.5	0.08	-0.18	-0.16	0	0	0	0	0	0
12/2/2024 8:53	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/2/2024 8:53	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 8:53	67702	WERN_T2	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
12/2/2024 9:00	20601	GRWO_T2	7	2	-5	0.76	2.9	2.14	0	0	0	0	0	0	0	0
12/2/2024 9:00	14204	EALL_T2	0	0	0	0	0	0	0.37	0.32	0	0	0	0	0	0
12/2/2024 9:00	40504	CRES_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 9:00	22901	HARW_T1	2	4	2	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
12/2/2024 9:00	22905	HARW_T1	2	6	4	0.3	0.43	0.13	-0.85	-0.83	0	0	0	0	0	0
12/2/2024 9:00	67503	WEWI_T2	1	1	0	6.9	7.9	1	0.23	0.23	0	0	0	0	0	0
12/2/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.4	0.44	0	0	0	0	0	0
12/2/2024 9:00	67502	WEWI_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
12/2/2024 9:00	20603	GRWO_T2	1	4	3	0.1	0.18	0.08	-0.47	-0.51	1	1	0	900	900	0
12/2/2024 9:00	22903	HARW_T1	3	5	2	0.53	0	-0.53	0	0	0	0	0	0	0	0
12/2/2024 9:03	64802	MONE_T2	0	3	3	0	0.13	0.13	0.28	0.3	0	0	0	0	0	0
12/2/2024 9:04	17002	RIRO_T2	24	40	16	0.19	0.21	0.02	0.69	0.65	0	0	0	0	0	0
12/2/2024 9:06	64305	LINC_T1	0	1	1	0	0.5	0.5	-0.22	-0.13	0	0	0	0	0	0
12/2/2024 9:07	57203	ROSS_T1	0	0	0	0	0	0	-0.04	-0.08	0	0	0	0	0	0
12/2/2024 9:08	57201	ROSS_T1	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
12/2/2024 9:08	47403	PENS_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
12/2/2024 9:08	16103	BING_T2	0	0	0	0	0	0	-1.45	-1.49	1	1	0	900	900	0
12/2/2024 9:08	47401	PENS_T1	0	0	0	0	0	0	-0.75	-0.9	0	0	0	0	0	0
12/2/2024 9:09	46002	BERW_T2	0	0	0	0	0	0	-0.7	-0.61	1	1	0	900	900	0
12/2/2024 9:09	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 9:14	63801	HEMP_T1	0	0	0	0	0	0	0.63	0.58	0	0	0	0	0	0
12/2/2024 9:14	63804	HEMP_T1	2	4	2	3.3	3.4	0.1	0	0	0	0	0	0	0	0
12/2/2024 9:14	63803	HEMP_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
12/2/2024 9:15	62102	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/2/2024 9:15	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 9:15	62105	ELAN_T1	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
12/2/2024 9:18	40601	PIGR_T1	1	12	11	0.1	0.15	0.05	0	0	0	0	0	0	0	0
12/2/2024 9:18	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 9:18	40602	PIGR_T1	1	1	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
12/2/2024 9:21	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/2/2024 9:21	67002	STHI_T2	1	1	0	0.3	0.5	0.2	0.68	0.68	0	0	0	0	0	0
12/2/2024 9:22	57401	SPAN_T1	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
12/2/2024 9:22	67701	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 9:22	57403	SPAN_T1	0	6	6	0	0.15	0.15	0.23	0.22	0	0	0	0	0	0
12/2/2024 9:22	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 9:24	67002	STHI_T2	1	1	0	0.3	0.5	0.2	1.36	1.35	0	0	0	0	0	0
12/2/2024 9:24	15104	UPHA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/2/2024 9:24	67701	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 9:24	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/2/2024 9:24	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 9:24	15103	UPHA_T2	0	1	1	0	0.2	0.2	-0.84	-0.85	0	0	0	0	0	0
12/2/2024 9:25	46206	DANV_T2	1	5	4	0.2	0.4	0.2	1.91	2	1	1	0	1200	1200	0
12/2/2024 9:25	67002	STHI_T2	1	1	0	0.3	0.5	0.2	1.36	1.35	0	0	0	0	0	0
12/2/2024 9:25	44902	SCOT_T2	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
12/2/2024 9:25	46203	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 9:25	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/2/2024 9:28	62106	ELAN_T1	0	0	0	0	0	0	1.13	1.14	0	0	0	0	0	0
12/2/2024 9:28	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 9:28	62102	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/2/2024 9:28	46206	DANV_T2	1	5	4	0.2	0.4	0.2	1.91	2	1	1	0	1200	1200	0
12/2/2024 9:28	46203	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 9:28	16302	ALPA_T2	1	1	0	0.2	0.3	0.1	-0.59	-0.67	0	0	0	0	0	0
12/2/2024 9:30	12007	HATF_T1	0	0	0	0	0	0	-0.66	-0.67	3	3	0	3600	3600	0
12/2/2024 9:30	46203	DANV_T2	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
12/2/2024 9:30	46206	DANV_T2	0	4	4	0	0.53	0.53	1.91	2	1	1	0	1200	1200	0
12/2/2024 9:30	63501	HEID_TBK1-2	30	9	-21	0.24	0.17	-0.07	-0.18	-0.15	1	1	0	900	900	0
12/2/2024 9:30	12006	HATF_T1	2	2	0	0.9	0.9	0	0.28	0.27	1	1	0	1200	1200	0
12/2/2024 9:31	54506	ENOL_T2	0	0	0	0	0	0	0.32	0.27	1	0	-1	600	0	-600
12/2/2024 9:31	54505	ENOL_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
12/2/2024 9:32	63501	HEID_TBK1-2	30	9	-21	0.24	0.17	-0.07	-0.55	-0.45	3	3	0	2700	2700	0
12/2/2024 9:33	63501	HEID_TBK1-2	30	9	-21	0.24	0.17	-0.07	-0.18	-0.15	1	1	0	900	900	0
12/2/2024 9:36	66502	SMAN_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
12/2/2024 9:36	65602	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/2/2024 9:36	66504	SMAN_T2	0	3	3	0	0.23	0.23	-0.25	-0.3	0	0	0	0	0	0
12/2/2024 9:36	65601	QVIL_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/2/2024 9:36	66501	SMAN_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
12/2/2024 9:36	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/2/2024 9:38	65802	RTWN_T2	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
12/2/2024 9:38	65803	RTWN_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
12/2/2024 9:39	65601	QVIL_T2	2	0	-2	0.2	0	-0.2	-0.92	-1.02	1	1	0	900	900	0
12/2/2024 9:39	65205	PRIN_T1	1	1	0	0.3	5.6	5.3	0	0	0	0	0	0	0	0
12/2/2024 9:39	65202	PRIN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/2/2024 9:39	58003	WCAR_T1	1	1	0	0.6	1.1	0.5	0	0	1	1	0	600	600	0
12/2/2024 9:39	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/2/2024 9:39	66504	SMAN_T2	0	3	3	0	0.23	0.23	-0.75	-0.91	0	0	0	0	0	0
12/2/2024 9:39	66501	SMAN_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
12/2/2024 9:39	65602	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/2/2024 9:39	66502	SMAN_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
12/2/2024 9:39	58001	WCAR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
12/2/2024 9:40	66502	SMAN_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
12/2/2024 9:40	66504	SMAN_T2	0	3	3	0	0.23	0.23	-0.5	-0.6	0	0	0	0	0	0
12/2/2024 9:40	10705	CATA_T2	0	0	0	0	0	0	-0.84	-0.86	1	1	0	900	900	0
12/2/2024 9:40	55002	NEWP_T1	6	3	-3	0.52	0.53	0.01	-0.15	-0.15	0	0	0	0	0	0
12/2/2024 9:40	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/2/2024 9:40	66501	SMAN_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
12/2/2024 9:42	14204	EALL_T2	0	0	0	0	0	0	0.36	0.28	0	0	0	0	0	0
12/2/2024 9:45	64301	LINC_T1	0	1	1	0	0	0	0.37	0.4	0	0	0	0	0	0
12/2/2024 9:45	45802	HEGI_T2	8	2	-6	0.31	0	-0.31	0	0	0	0	0	0	0	0
12/2/2024 9:46	11101	EGYP_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/2/2024 9:46	64301	LINC_T1	0	1	1	0	0	0	0.37	0.4	0	0	0	0	0	0
12/2/2024 9:46	11104	EGYP_T1	0	0	0	0	0	0	0.82	0.75	0	0	0	0	0	0
12/2/2024 9:47	25402	LAHA_T2	13	16	3	1.35	0.88	-0.47	-0.46	-0.47	0	0	0	0	0	0
12/2/2024 9:47	57304	MOAL_T2	1	0	-1	0.6	0	-0.6	0.11	0.09	0	0	0	0	0	0
12/2/2024 9:47	57301	MOAL_T2	0	8	8	0	0.25	0.25	0	0	0	0	0	0	0	0
12/2/2024 9:47	57303	MOAL_T2	1	1	0	7.2	6.6	-0.6	0	0	0	0	0	0	0	0
12/2/2024 9:47	64301	LINC_T1	0	1	1	0	0	0	0.37	0.4	0	0	0	0	0	0
12/2/2024 9:48	58401	MORO_T1	0	0	0	0	0	0	-1.75	-0.89	1	1	0	600	600	0
12/2/2024 9:49	64101	REFR_T1	1	1	0	0.1	0.3	0.2	0.06	0.04	0	0	0	0	0	0
12/2/2024 9:49	58401	MORO_T1	0	0	0	0	0	0	-1.75	-0.89	1	1	0	600	600	0
12/2/2024 9:50	64101	REFR_T1	1	1	0	0.1	0.3	0.2	0.06	0.04	0	0	0	0	0	0
12/2/2024 9:50	13303	ORVI_T1	0	0	0	0	0	0	1.18	1.12	0	0	0	0	0	0
12/2/2024 9:51	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 9:52	61101	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/2/2024 9:52	61103	BERK_T5	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
12/2/2024 9:52	16302	ALPA_T2	0	0	0	0	0	0	0.75	0.66	0	0	0	0	0	0
12/2/2024 9:53	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 9:54	16101	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/2/2024 9:54	16102	BING_T2	2	1	-1	0.2	0.2	0	0.06	0.06	0	0	0	0	0	0
12/2/2024 9:54	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 9:56	51503	SWAT_T1	2	2	0	0.85	1.25	0.4	0	0	0	0	0	0	0	0
12/2/2024 9:56	51502	SWAT_T1	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
12/2/2024 9:57	61103	BERK_T5	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
12/2/2024 9:57	61101	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/2/2024 9:57	57205	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 9:57	57203	ROSS_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
12/2/2024 9:57	64101	REFR_T1	1	1	0	0.1	0.3	0.2	0.04	-0.01	0	0	0	0	0	0
12/2/2024 9:57	57201	ROSS_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 9:58	44801	EDAN_T2	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
12/2/2024 9:58	57205	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/2/2024 9:58	57201	ROSS_T1	0	5	5	0	0.1	0.1	-0.46	-0.38	0	0	0	0	0	0
12/2/2024 9:59	53902	HALI_T2	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
12/2/2024 9:59	64101	REFR_T1	1	1	0	0.1	0.3	0.2	0.04	-0.01	0	0	0	0	0	0
12/2/2024 9:59	53903	HALI_T2	3	2	-1	1.2	1.5	0.3	0	0	0	0	0	0	0	0
12/2/2024 9:59	53901	HALI_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
12/2/2024 9:59	20601	GRWO_T2	1	1	0	2.9	2.6	-0.3	0	0	0	0	0	0	0	0
12/2/2024 9:59	20603	GRWO_T2	9	11	2	0.18	0.21	0.03	-0.5	-0.51	1	1	0	900	900	0
12/2/2024 10:00	44801	EDAN_T2	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
12/2/2024 10:00	16101	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/2/2024 10:00	16102	BING_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/2/2024 10:01	53901	HALI_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
12/2/2024 10:01	53902	HALI_T2	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
12/2/2024 10:01	64902	MILL_T2	2	0	-2	0.55	0	-0.55	-0.66	0.35	1	0	-1	900	0	-900
12/2/2024 10:01	53903	HALI_T2	2	4	2	1.5	0.9	-0.6	-0.03	-0.04	0	0	0	0	0	0
12/2/2024 10:01	47203	FAXO_T2	1	1	0	1.5	1.2	-0.3	-0.33	-0.32	0	0	0	0	0	0
12/2/2024 10:02	53902	HALI_T2	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
12/2/2024 10:02	42903	MIDD_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/2/2024 10:02	53901	HALI_T2	1	1	0	1	1	0	-1.29	-1.35	0	0	0	0	0	0
12/2/2024 10:02	53903	HALI_T2	2	4	2	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
12/2/2024 10:02	42902	MIDD_T2	0	0	0	0	0	0	-0.4	-0.44	0	0	0	0	0	0
12/2/2024 10:04	58202	NEWV_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
12/2/2024 10:06	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 10:06	64904	MILL_T1	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
12/2/2024 10:06	42903	MIDD_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/2/2024 10:07	64101	REFR_T1	1	2	1	0.1	0.4	0.3	-0.01	0.02	0	0	0	0	0	0
12/2/2024 10:08	58202	NEWV_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
12/2/2024 10:09	57205	ROSS_T1	1	2	1	0.1	0.4	0.3	0.27	0.25	0	0	0	0	0	0
12/2/2024 10:09	57201	ROSS_T1	5	7	2	0.1	0.11	0.01	0	0	0	0	0	0	0	0
12/2/2024 10:09	64101	REFR_T1	1	2	1	0.1	0.4	0.3	-0.01	0.02	0	0	0	0	0	0
12/2/2024 10:10	42902	MIDD_T2	0	0	0	0	0	0	-0.44	-0.3	0	0	0	0	0	0
12/2/2024 10:10	42903	MIDD_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/2/2024 10:11	44801	EDAN_T2	0	8	8	0	0.11	0.11	-0.3	-0.29	0	0	0	0	0	0
12/2/2024 10:12	14704	TREX_T1	1	1	0	6.2	6.5	0.3	0	0	0	0	0	0	0	0
12/2/2024 10:12	41901	REED_T1	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/2/2024 10:12	41902	REED_T1	0	3	3	0	0	0	1.05	1.06	0	0	0	0	0	0
12/2/2024 10:12	14705	TREX_T1	0	0	0	0	0	0	-0.34	-0.31	0	0	0	0	0	0
12/2/2024 10:13	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 10:13	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
12/2/2024 10:13	54504	ENOL_T2	0	0	0	0	0	0	-0.97	-1	1	1	0	600	600	0
12/2/2024 10:14	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 10:15	45702	LIND_T2	0	5	5	0	0.34	0.34	-1.68	-1.72	0	0	0	0	0	0
12/2/2024 10:15	40101	HUNT_T2	137	63	-74	0.51	0.54	0.03	-1.69	-1.68	0	0	0	0	0	0
12/2/2024 10:17	57203	ROSS_T1	0	0	0	0	0	0	-0.08	-0.11	0	0	0	0	0	0
12/2/2024 10:17	40101	HUNT_T2	137	63	-74	0.51	0.54	0.03	-1.69	-1.68	0	0	0	0	0	0
12/2/2024 10:17	45701	LIND_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
12/2/2024 10:17	57205	ROSS_T1	1	3	2	0.1	0.43	0.33	0	0	0	0	0	0	0	0
12/2/2024 10:17	57201	ROSS_T1	0	10	10	0	0.13	0.13	0	0	0	0	0	0	0	0
12/2/2024 10:17	45702	LIND_T2	3	5	2	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
12/2/2024 10:18	40101	HUNT_T2	137	63	-74	0.51	0.54	0.03	-1.69	-1.68	0	0	0	0	0	0
12/2/2024 10:18	45702	LIND_T2	3	5	2	0.37	0.34	-0.03	-1.68	-1.72	0	0	0	0	0	0
12/2/2024 10:19	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/2/2024 10:19	47403	PENS_T1	1	4	3	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
12/2/2024 10:19	65503	MOJO_T2	0	0	0	0	0	0	-1.05	-0.98	1	1	0	900	900	0
12/2/2024 10:19	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 10:19	47401	PENS_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
12/2/2024 10:21	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/2/2024 10:21	47403	PENS_T1	1	4	3	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
12/2/2024 10:21	47401	PENS_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
12/2/2024 10:22	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/2/2024 10:22	47401	PENS_T1	0	0	0	0	0	0	0.27	0.21	0	0	0	0	0	0
12/2/2024 10:22	47403	PENS_T1	1	4	3	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
12/2/2024 10:22	14603	SWHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/2/2024 10:22	14601	SWHI_T1	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
12/2/2024 10:23	47402	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/2/2024 10:23	41901	REED_T1	1	7	6	0.3	0.3	0	0	0	0	0	0	0	0	0
12/2/2024 10:23	47401	PENS_T1	0	0	0	0	0	0	0.27	0.21	0	0	0	0	0	0
12/2/2024 10:23	41902	REED_T1	0	3	3	0	0	0	1.06	0.52	0	1	1	0	900	900
12/2/2024 10:23	47403	PENS_T1	1	4	3	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
12/2/2024 10:24	44902	SCOT_T2	0	0	0	0	0	0	-0.84	-0.81	0	0	0	0	0	0
12/2/2024 10:25	44905	SCOT_T1	2	1	-1	0.55	0	-0.55	0	0	0	0	0	0	0	0
12/2/2024 10:26	10801	CHHI_T1	2	1	-1	0.45	0.5	0.05	-1.46	-0.87	2	1	-1	1500	900	-600
12/2/2024 10:28	10801	CHHI_T1	2	1	-1	0.45	0.5	0.05	-1.46	-0.87	2	1	-1	1500	900	-600
12/2/2024 10:28	46203	DANV_T2	0	1	1	0	0	0	-0.43	-0.45	0	0	0	0	0	0
12/2/2024 10:28	14603	SWHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/2/2024 10:28	46206	DANV_T2	0	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0
12/2/2024 10:28	10705	CATA_T2	0	0	0	0	0	0	-0.83	-0.84	1	1	0	900	900	0
12/2/2024 10:29	46203	DANV_T2	0	1	1	0	0	0	-0.43	-0.45	0	0	0	0	0	0
12/2/2024 10:29	46206	DANV_T2	0	1	1	0	4.6	4.6	0	0	0	0	0	0	0	0
12/2/2024 10:33	41901	REED_T1	1	8	7	0.2	0.36	0.16	0	0	0	0	0	0	0	0
12/2/2024 10:33	42902	MIDD_T2	0	0	0	0	0	0	-0.3	-0.33	0	0	0	0	0	0
12/2/2024 10:33	41902	REED_T1	3	0	-3	0.13	0	-0.13	1.06	0.52	0	1	1	0	900	900
12/2/2024 10:35	51702	OBER_T1	2	2	0	3.45	3.15	-0.3	-0.58	-0.6	1	1	0	600	600	0
12/2/2024 10:35	64802	MONE_T2	6	28	22	0.17	0.22	0.05	0.28	0.23	0	0	0	0	0	0
12/2/2024 10:35	64801	MONE_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/2/2024 10:36	64101	REFR_T1	2	2	0	0.4	0.35	-0.05	0.03	-0.04	0	0	0	0	0	0
12/2/2024 10:36	51702	OBER_T1	2	2	0	3.45	3.15	-0.3	-0.58	-0.6	1	1	0	600	600	0
12/2/2024 10:37	64101	REFR_T1	2	2	0	0.4	0.35	-0.05	0.03	-0.04	0	0	0	0	0	0
12/2/2024 10:37	64801	MONE_T2	1	1	0	0.5	0.4	-0.1	0.43	0.44	0	0	0	0	0	0
12/2/2024 10:37	64802	MONE_T2	6	28	22	0.17	0.22	0.05	0	0	0	0	0	0	0	0
12/2/2024 10:38	14801	TREI_T2	0	1	1	0	0.3	0.3	0.55	0.56	0	0	0	0	0	0
12/2/2024 10:38	64101	REFR_T1	2	2	0	0.4	0.35	-0.05	0.03	-0.04	0	0	0	0	0	0
12/2/2024 10:38	14802	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 10:40	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 10:40	40201	BEGA_T2	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
12/2/2024 10:42	11202	ELHE_T2	0	0	0	0	0	0	0.43	0.42	1	1	0	1200	1200	0
12/2/2024 10:43	40201	BEGA_T2	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
12/2/2024 10:44	44301	BEAV_T2	1	1	0	1.5	0	-1.5	0	0	1	1	0	600	600	0
12/2/2024 10:44	11101	EGYP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/2/2024 10:44	11104	EGYP_T1	1	0	-1	0.3	0	-0.3	0.29	0.3	0	0	0	0	0	0
12/2/2024 10:45	46801	HEPB_T2	0	33	33	0	0.29	0.29	0	0	0	0	0	0	0	0
12/2/2024 10:45	46803	HEPB_T2	0	32	32	0	0.19	0.19	0.28	0.28	0	0	0	0	0	0
12/2/2024 10:45	40101	HUNT_T2	32	47	15	0.51	0.4	-0.11	-1.7	-1.77	0	0	0	0	0	0
12/2/2024 10:52	54206	PENN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 10:52	54202	PENN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
12/2/2024 10:53	47403	PENS_T1	4	4	0	0.53	0.63	0.1	0	0	0	0	0	0	0	0
12/2/2024 10:53	54201	PENN_T1	9	10	1	0.64	0.78	0.14	0	0	0	0	0	0	0	0
12/2/2024 10:53	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/2/2024 10:53	47402	PENS_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 10:53	54505	ENOL_T2	1	2	1	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
12/2/2024 10:53	54503	ENOL_T2	0	0	0	0	0	0	-0.37	-0.36	1	1	0	600	600	0
12/2/2024 10:53	47401	PENS_T1	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
12/2/2024 10:53	54203	PENN_T1	19	19	0	1.12	1.15	0.03	0.06	0.08	0	0	0	0	0	0
12/2/2024 10:55	67203	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 10:55	67401	WAKE_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
12/2/2024 10:55	67402	WAKE_T2	0	0	0	0	0	0	0.48	0.48	1	1	0	600	600	0
12/2/2024 10:55	67201	TEHI_T1	3	4	1	0.7	0.35	-0.35	0.17	0.41	0	1	1	0	900	900
12/2/2024 10:56	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 10:56	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 10:57	48902	FOSP_T2	8	0	-8	0.28	0	-0.28	-0.22	0.61	1	0	-1	1200	0	-1200
12/2/2024 10:57	48901	FOSP_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
12/2/2024 11:00	63501	HEID_TBK1-2	26	1	-25	0.22	0.1	-0.12	-0.22	-0.21	1	1	0	900	900	0
12/2/2024 11:01	48901	FOSP_T2	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
12/2/2024 11:02	16004	DORN_T1	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
12/2/2024 11:02	16005	DORN_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
12/2/2024 11:03	40101	HUNT_T2	15	47	32	0.4	0.63	0.23	-1.77	-1.71	0	0	0	0	0	0
12/2/2024 11:04	46102	MACI_T1	0	0	0	0	0	0	0.69	0.75	0	0	0	0	0	0
12/2/2024 11:04	54201	PENN_T1	10	10	0	0.74	0.77	0.03	0.9	0.89	0	0	0	0	0	0
12/2/2024 11:04	54203	PENN_T1	18	19	1	1.17	1.27	0.1	0	0	0	0	0	0	0	0
12/2/2024 11:05	54201	PENN_T1	10	10	0	0.74	0.77	0.03	0	0	0	0	0	0	0	0
12/2/2024 11:05	54203	PENN_T1	18	19	1	1.17	1.27	0.1	0.06	0.08	0	0	0	0	0	0
12/2/2024 11:06	57401	SPAN_T1	2	4	2	0.5	0.6	0.1	0	0	0	0	0	0	0	0
12/2/2024 11:06	67203	TEHI_T1	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
12/2/2024 11:06	57403	SPAN_T1	16	21	5	0.26	0.33	0.07	0.2	0.17	0	0	0	0	0	0
12/2/2024 11:06	67201	TEHI_T1	4	2	-2	0.35	0.25	-0.1	0.41	0.91	0	1	1	0	900	900
12/2/2024 11:12	10705	CATA_T2	0	1	1	0	1.7	1.7	-0.73	-0.83	1	1	0	900	900	0
12/2/2024 11:14	13101	NHAM_T1	0	0	0	0	0	0	4.67	4.62	4	4	0	4200	4200	0
12/2/2024 11:15	54502	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
12/2/2024 11:15	54505	ENOL_T2	2	2	0	0.65	0.6	-0.05	-1.17	-1.17	1	1	0	600	600	0
12/2/2024 11:17	54505	ENOL_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
12/2/2024 11:17	54504	ENOL_T2	0	0	0	0	0	0	-1.01	-1.01	1	1	0	600	600	0
12/2/2024 11:17	54502	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
12/2/2024 11:21	64101	REFR_T1	3	1	-2	0.2	0.1	-0.1	-0.03	-0.03	0	0	0	0	0	0
12/2/2024 11:21	54602	SUMM_T2	16	16	0	0.59	0.71	0.12	0	0	0	0	0	0	0	0
12/2/2024 11:21	54601	SUMM_T2	9	9	0	0.61	0.9	0.29	-4.01	-3.98	2	2	0	2100	2100	0
12/2/2024 11:22	67002	STHI_T2	1	0	-1	0.1	0	-0.1	0.68	0.69	0	0	0	0	0	0
12/2/2024 11:22	67001	STHI_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
12/2/2024 11:22	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 11:23	57401	SPAN_T1	4	2	-2	0.6	0.75	0.15	0.01	-0.07	0	0	0	0	0	0
12/2/2024 11:23	54603	SUMM_T2	0	0	0	0	0	0	-0.43	-0.47	1	1	0	900	900	0
12/2/2024 11:23	57403	SPAN_T1	21	20	-1	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
12/2/2024 11:23	54602	SUMM_T2	16	16	0	0.59	0.71	0.12	0	0	0	0	0	0	0	0
12/2/2024 11:23	54601	SUMM_T2	9	9	0	0.61	0.9	0.29	0	0	0	0	0	0	0	0
12/2/2024 11:24	54601	SUMM_T2	9	9	0	0.61	0.9	0.29	0	0	0	0	0	0	0	0
12/2/2024 11:24	54603	SUMM_T2	0	0	0	0	0	0	-0.43	-0.47	1	1	0	900	900	0
12/2/2024 11:24	42501	ALTA_T2	1	3	2	0	0.1	0.1	0.08	0	0	0	0	0	0	0
12/2/2024 11:24	54602	SUMM_T2	16	16	0	0.59	0.71	0.12	0	0	0	0	0	0	0	0
12/2/2024 11:24	64101	REFR_T1	3	1	-2	0.2	0.1	-0.1	-0.03	-0.03	0	0	0	0	0	0
12/2/2024 11:24	42504	ALTA_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/2/2024 11:25	57401	SPAN_T1	4	2	-2	0.6	0.75	0.15	0	0	0	0	0	0	0	0
12/2/2024 11:25	57403	SPAN_T1	21	20	-1	0.3	0.29	-0.01	0.18	0.2	0	0	0	0	0	0
12/2/2024 11:26	57403	SPAN_T1	21	20	-1	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
12/2/2024 11:26	57205	ROSS_T1	2	4	2	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
12/2/2024 11:26	42501	ALTA_T2	1	3	2	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/2/2024 11:26	57201	ROSS_T1	10	13	3	0.16	0.18	0.02	0	0	0	0	0	0	0	0
12/2/2024 11:26	57401	SPAN_T1	4	2	-2	0.6	0.75	0.15	0.01	-0.07	0	0	0	0	0	0
12/2/2024 11:26	42504	ALTA_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/2/2024 11:26	42503	ALTA_T2	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
12/2/2024 11:26	57203	ROSS_T1	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
12/2/2024 11:26	64503	LAVI_T1	0	0	0	0	0	0	-1.66	-1.28	1	1	0	1200	1200	0
12/2/2024 11:28	40801	EXCH_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
12/2/2024 11:28	40802	EXCH_T2	0	3	3	0	0.13	0.13	-0.16	-0.52	0	0	0	0	0	0
12/2/2024 11:28	64101	REFR_T1	3	1	-2	0.2	0.1	-0.1	-0.03	-0.03	0	0	0	0	0	0
12/2/2024 11:29	54502	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
12/2/2024 11:29	54501	ENOL_T2	0	0	0	0	0	0	-0.52	-0.49	1	1	0	600	600	0
12/2/2024 11:29	54505	ENOL_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
12/2/2024 11:31	45802	HEGI_T2	12	13	1	0.38	0.34	-0.04	0.14	0.35	2	2	0	1800	1800	0
12/2/2024 11:31	54502	ENOL_T2	1	1	0	0.2	0.6	0.4	-2.01	-2.06	0	0	0	0	0	0
12/2/2024 11:31	54505	ENOL_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
12/2/2024 11:34	54502	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
12/2/2024 11:34	54501	ENOL_T2	0	0	0	0	0	0	-0.52	-0.49	1	1	0	600	600	0
12/2/2024 11:34	54505	ENOL_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
12/2/2024 11:36	41901	REED_T1	9	7	-2	0.34	0.25	-0.09	0	0	0	0	0	0	0	0
12/2/2024 11:36	41902	REED_T1	0	0	0	0	0	0	0.34	0.44	1	1	0	900	900	0
12/2/2024 11:38	41903	REED_T1	0	0	0	0	0	0	-0.29	-0.29	1	1	0	1200	1200	0
12/2/2024 11:38	41901	REED_T1	9	7	-2	0.34	0.25	-0.09	0	0	0	0	0	0	0	0
12/2/2024 11:39	64101	REFR_T1	0	1	1	0	0.1	0.1	-0.03	-0.01	0	0	0	0	0	0
12/2/2024 11:39	67001	STHI_T2	1	3	2	0.5	0.3	-0.2	0.15	0.13	0	0	0	0	0	0
12/2/2024 11:39	67002	STHI_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
12/2/2024 11:42	28602	BLYT_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/2/2024 11:44	63501	HEID_TBK1-2	0	30	30	0	0.19	0.19	-0.19	-0.27	0	1	1	0	900	900
12/2/2024 11:45	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 11:45	53902	HALI_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
12/2/2024 11:45	53903	HALI_T2	2	2	0	1.2	1.5	0.3	-0.05	-0.04	0	0	0	0	0	0
12/2/2024 11:46	53902	HALI_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
12/2/2024 11:46	53903	HALI_T2	2	2	0	1.2	1.5	0.3	-0.05	-0.04	0	0	0	0	0	0
12/2/2024 11:46	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 11:50	64101	REFR_T1	1	1	0	0.1	0.1	0	-0.03	-0.01	0	0	0	0	0	0
12/2/2024 11:50	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 11:50	54202	PENN_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
12/2/2024 11:51	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 11:51	54202	PENN_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
12/2/2024 11:53	57403	SPAN_T1	20	67	47	0.26	0.32	0.06	0.17	0.14	0	0	0	0	0	0
12/2/2024 11:53	57401	SPAN_T1	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
12/2/2024 11:54	57403	SPAN_T1	20	67	47	0.26	0.32	0.06	0	0	0	0	0	0	0	0
12/2/2024 11:54	57401	SPAN_T1	2	2	0	0.45	0.55	0.1	-0.11	-0.11	0	0	0	0	0	0
12/2/2024 11:55	67702	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 11:55	57401	SPAN_T1	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
12/2/2024 11:55	57403	SPAN_T1	20	67	47	0.26	0.32	0.06	0.17	0.14	0	0	0	0	0	0
12/2/2024 11:56	57401	SPAN_T1	2	2	0	0.45	0.55	0.1	-0.11	-0.11	0	0	0	0	0	0
12/2/2024 11:56	57403	SPAN_T1	20	67	47	0.26	0.32	0.06	0	0	0	0	0	0	0	0
12/2/2024 11:57	57401	SPAN_T1	2	2	0	0.45	0.55	0.1	-0.34	-0.33	0	0	0	0	0	0
12/2/2024 11:57	57403	SPAN_T1	20	67	47	0.26	0.32	0.06	0	0	0	0	0	0	0	0
12/2/2024 11:59	44801	EDAN_T2	1	2	1	2.7	0.2	-2.5	-0.35	-0.28	0	0	0	0	0	0
12/2/2024 11:59	40801	EXCH_T2	3	4	1	0.17	0.18	0.01	0	0	0	0	0	0	0	0
12/2/2024 11:59	40802	EXCH_T2	3	3	0	0.13	0.23	0.1	-0.58	-0.7	0	0	0	0	0	0
12/2/2024 12:01	53501	EVIL_T2	2	2	0	0.5	0.5	0	-0.73	-0.7	1	1	0	600	600	0
12/2/2024 12:01	53502	EVIL_T2	12	0	-12	0.96	0	-0.96	0	0	0	0	0	0	0	0
12/2/2024 12:03	22601	KIMB_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/2/2024 12:03	23403	HONE_T1	0	0	0	0	0	0	-0.7	-0.65	0	0	0	0	0	0
12/2/2024 12:03	22602	KIMB_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
12/2/2024 12:05	40101	HUNT_T2	65	83	18	0.62	0.46	-0.16	-1.62	-1.61	0	0	0	0	0	0
12/2/2024 12:07	56501	ROCK_T2	4	5	1	0.3	0.3	0	-1.16	-1.15	0	0	0	0	0	0
12/2/2024 12:08	56501	ROCK_T2	4	5	1	0.3	0.3	0	-2.31	-2.29	0	0	0	0	0	0
12/2/2024 12:11	60404	DILL_T2	0	0	0	0	0	0	0.05	0.14	1	1	0	1200	1200	0
12/2/2024 12:12	26401	INOR_T1	3	1	-2	1.57	4.7	3.13	0	0	0	0	0	0	0	0
12/2/2024 12:12	26402	INOR_T1	0	0	0	0	0	0	83.96	83.96	0	1	1	0	600	600
12/2/2024 12:13	53502	EVIL_T2	12	0	-12	0.96	0	-0.96	0	0	0	0	0	0	0	0
12/2/2024 12:13	53501	EVIL_T2	2	2	0	0.5	0.5	0	-1.39	-1.45	2	2	0	1200	1200	0
12/2/2024 12:14	53501	EVIL_T2	2	2	0	0.5	0.5	0	-0.7	-0.73	1	1	0	600	600	0
12/2/2024 12:14	61703	ELIZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/2/2024 12:14	61701	ELIZ_T1	2	1	-1	2.55	5.5	2.95	0.27	0.21	0	0	0	0	0	0
12/2/2024 12:14	53502	EVIL_T2	12	0	-12	0.96	0	-0.96	0	0	0	0	0	0	0	0
12/2/2024 12:15	64702	LITI_T2	0	0	0	0	0	0	-0.91	-0.85	0	0	0	0	0	0
12/2/2024 12:15	24701	FLND_T2	0	10	10	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 12:15	24702	FLND_T2	5	7	2	0.12	0.6	0.48	-0.16	0.24	1	1	0	1200	1200	0
12/2/2024 12:16	64702	LITI_T2	0	0	0	0	0	0	-0.91	-0.85	0	0	0	0	0	0
12/2/2024 12:16	53501	EVIL_T2	2	1	-1	0.5	0.4	-0.1	-0.7	-0.73	1	1	0	600	600	0
12/2/2024 12:17	53501	EVIL_T2	2	1	-1	0.5	0.4	-0.1	-0.7	-0.73	1	1	0	600	600	0
12/2/2024 12:17	64202	KINZ_T1	0	2	2	0	0.15	0.15	0.75	0.73	0	0	0	0	0	0
12/2/2024 12:17	64204	KINZ_T1	1	2	1	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
12/2/2024 12:19	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 12:19	39601	LNID_T1	7	11	4	0.44	0.53	0.09	0	0	1	1	0	900	900	0
12/2/2024 12:21	64101	REFR_T1	0	2	2	0	0.25	0.25	-0.03	-0.04	0	0	0	0	0	0
12/2/2024 12:24	55105	WERT_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
12/2/2024 12:24	55101	WERT_T1	0	0	0	0	0	0	-1.22	-1.19	1	1	0	600	600	0
12/2/2024 12:24	14604	SWHI_T1	0	0	0	0	0	0	-0.22	-0.22	2	2	0	1500	1500	0
12/2/2024 12:29	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 12:30	52403	GRPA_T2	7	3	-4	0.69	0.83	0.14	-0.17	-0.14	0	0	0	0	0	0
12/2/2024 12:30	52402	GRPA_T2	4	6	2	0.6	0.72	0.12	0	0	0	0	0	0	0	0
12/2/2024 12:30	52404	GRPA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/2/2024 12:30	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 12:30	52401	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
12/2/2024 12:35	45701	LIND_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
12/2/2024 12:35	45702	LIND_T2	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
12/2/2024 12:36	13901	SEID_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/2/2024 12:36	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 12:36	13902	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 12:36	13904	SEID_T1	24	30	6	0.77	0.3	-0.47	0	0	0	0	0	0	0	0
12/2/2024 12:37	66505	SMAN_T2	0	1	1	0	0.1	0.1	-0.05	0.02	1	1	0	900	900	0
12/2/2024 12:37	66504	SMAN_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/2/2024 12:39	65601	QVIL_T2	4	5	1	0.2	0.2	0	-1.05	-1.1	1	1	0	900	900	0
12/2/2024 12:39	66504	SMAN_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/2/2024 12:39	66505	SMAN_T2	0	1	1	0	0.1	0.1	-0.05	0.02	1	1	0	900	900	0
12/2/2024 12:39	65603	QVIL_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 12:42	40303	TAMA_T3	1	1	0	0.2	0.1	-0.1	2.61	2.67	0	0	0	0	0	0
12/2/2024 12:42	40301	TAMA_T3	6	6	0	0.64	0.72	0.08	0	0	0	0	0	0	0	0
12/2/2024 12:42	40302	TAMA_T3	14	20	6	0.62	0.52	-0.1	0	0	0	0	0	0	0	0
12/2/2024 12:46	44502	HAMI_T2	1	1	0	2.2	2.2	0	-0.81	-0.84	0	0	0	0	0	0
12/2/2024 12:47	64702	LITI_T2	0	0	0	0	0	0	-0.84	-0.79	0	0	0	0	0	0
12/2/2024 12:52	66504	SMAN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/2/2024 12:52	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0.02	-0.03	1	1	0	900	900	0
12/2/2024 12:54	66504	SMAN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/2/2024 12:54	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0.02	-0.03	1	1	0	900	900	0
12/2/2024 13:01	46602	LACR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 13:09	42501	ALTA_T2	30	23	-7	0.15	0.13	-0.02	0.04	0.04	1	1	0	600	600	0
12/2/2024 13:09	42503	ALTA_T2	3	2	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
12/2/2024 13:09	42504	ALTA_T2	3	3	0	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
12/2/2024 13:14	42503	ALTA_T2	3	2	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
12/2/2024 13:14	42504	ALTA_T2	3	3	0	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
12/2/2024 13:14	42501	ALTA_T2	30	23	-7	0.15	0.13	-0.02	0.04	0.04	1	1	0	600	600	0
12/2/2024 13:20	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 13:21	44905	SCOT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/2/2024 13:21	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 13:22	14601	SWHI_T1	0	0	0	0	0	0	-1.48	-1.46	0	0	0	0	0	0
12/2/2024 13:22	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 13:23	44901	SCOT_T2	0	0	0	0	0	0	-0.03	-0.09	0	0	0	0	0	0
12/2/2024 13:23	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 13:24	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 13:39	66902	SHIL_T2	0	0	0	0	0	0	-1.94	-1.95	0	0	0	0	0	0
12/2/2024 13:44	22903	HARW_T1	37	44	7	1.94	2.12	0.18	0	0	0	0	0	0	0	0
12/2/2024 13:44	58003	WCAR_T1	1	1	0	1.5	1.5	0	1.33	1.33	0	0	0	0	0	0
12/2/2024 13:44	58001	WCAR_T1	4	4	0	0.65	0.83	0.18	0	0	0	0	0	0	0	0
12/2/2024 13:44	22904	HARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/2/2024 13:44	22901	HARW_T1	15	10	-5	0.63	2	1.37	0	0	0	0	0	0	0	0
12/2/2024 13:44	22905	HARW_T1	54	69	15	1.1	0.68	-0.42	-0.28	-0.18	0	0	0	0	0	0
12/2/2024 13:47	42902	MIDD_T2	0	0	0	0	0	0	-0.44	-0.35	0	0	0	0	0	0
12/2/2024 13:48	42902	MIDD_T2	0	0	0	0	0	0	-0.44	-0.35	0	0	0	0	0	0
12/2/2024 13:48	11104	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 13:50	42902	MIDD_T2	0	0	0	0	0	0	-0.44	-0.35	0	0	0	0	0	0
12/2/2024 13:51	42902	MIDD_T2	0	0	0	0	0	0	-0.89	-0.69	0	0	0	0	0	0
12/2/2024 13:54	55101	WERT_T1	0	0	0	0	0	0	-3.62	-3.53	3	3	0	1800	1800	0
12/2/2024 13:56	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 13:57	55101	WERT_T1	0	0	0	0	0	0	-1.21	-1.18	1	1	0	600	600	0
12/2/2024 13:58	11104	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 14:02	55105	WERT_T1	0	0	0	0	0	0	-0.47	-0.45	1	1	0	900	900	0
12/2/2024 14:07	59101	WALK_T2	0	1	1	0	0	0	1.96	1.88	0	0	0	0	0	0
12/2/2024 14:08	59101	WALK_T2	0	1	1	0	0	0	1.96	1.88	0	0	0	0	0	0
12/2/2024 14:11	59101	WALK_T2	0	1	1	0	0	0	1.96	1.88	0	0	0	0	0	0
12/2/2024 14:14	10705	CATA_T2	0	0	0	0	0	0	-0.86	-0.87	1	1	0	900	900	0
12/2/2024 14:14	10702	CATA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/2/2024 14:15	22903	HARW_T1	24	24	0	1.38	1.1	-0.28	0	0	0	0	0	0	0	0
12/2/2024 14:15	22901	HARW_T1	2	4	2	1.95	1.2	-0.75	0	0	0	0	0	0	0	0
12/2/2024 14:15	22904	HARW_T1	2	1	-1	0.55	0	-0.55	0	0	0	0	0	0	0	0
12/2/2024 14:15	22905	HARW_T1	43	49	6	0.93	0.96	0.03	-0.23	-0.25	0	0	0	0	0	0
12/2/2024 14:16	10705	CATA_T2	0	0	0	0	0	0	-0.86	-0.87	1	1	0	900	900	0
12/2/2024 14:16	10702	CATA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/2/2024 14:21	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 14:22	24901	WHHA_T1	1	0	-1	0.1	0	-0.1	-0.66	-0.65	0	0	0	0	0	0
12/2/2024 14:22	24902	WHHA_T1	4	3	-1	0.33	0.35	0.02	0	0	0	0	0	0	0	0
12/2/2024 14:28	24901	WHHA_T1	1	0	-1	0.1	0	-0.1	-0.66	-0.65	0	0	0	0	0	0
12/2/2024 14:28	29301	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
12/2/2024 14:28	24902	WHHA_T1	4	3	-1	0.33	0.35	0.02	0	0	0	0	0	0	0	0
12/2/2024 14:40	40201	BEGA_T2	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/2/2024 14:41	40201	BEGA_T2	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/2/2024 14:47	42301	MOWR_T2	3	2	-1	0.2	0.3	0.1	-0.2	-0.26	0	0	0	0	0	0
12/2/2024 14:47	42302	MOWR_T2	8	17	9	0.19	0.18	-0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/2/2024 14:48	65502	MOJO_T2	0	0	0	0	0	0	-0.03	-0.13	0	0	0	0	0	0
12/2/2024 14:48	42301	MOWR_T2	3	2	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/2/2024 14:48	42302	MOWR_T2	8	17	9	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
12/2/2024 14:49	42301	MOWR_T2	3	2	-1	0.2	0.3	0.1	-0.81	-1.04	0	0	0	0	0	0
12/2/2024 14:49	42302	MOWR_T2	8	17	9	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
12/2/2024 14:49	65502	MOJO_T2	0	0	0	0	0	0	-0.03	-0.13	0	0	0	0	0	0
12/2/2024 14:50	42302	MOWR_T2	8	17	9	0.19	0.18	-0.01	0.71	0.72	0	0	0	0	0	0
12/2/2024 14:50	42301	MOWR_T2	3	2	-1	0.2	0.3	0.1	-0.2	-0.26	0	0	0	0	0	0
12/2/2024 14:51	42302	MOWR_T2	8	17	9	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
12/2/2024 14:51	42301	MOWR_T2	3	2	-1	0.2	0.3	0.1	-0.78	-0.75	0	0	0	0	0	0
12/2/2024 14:52	42302	MOWR_T2	8	17	9	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
12/2/2024 14:52	42301	MOWR_T2	3	2	-1	0.2	0.3	0.1	-0.52	-0.5	0	0	0	0	0	0
12/2/2024 14:56	55102	WERT_T2	0	0	0	0	0	0	-0.22	-0.27	0	0	0	0	0	0
12/2/2024 14:58	58001	WCAR_T1	4	4	0	0.93	0.9	-0.03	0	0	0	0	0	0	0	0
12/2/2024 14:58	58003	WCAR_T1	1	1	0	1.2	1.3	0.1	0.66	0.65	0	0	0	0	0	0
12/2/2024 15:03	64701	LITI_T1	0	0	0	0	0	0	0.28	0.38	0	0	0	0	0	0
12/2/2024 15:10	47401	PENS_T1	0	0	0	0	0	0	-0.94	-0.93	0	0	0	0	0	0
12/2/2024 15:11	47401	PENS_T1	0	0	0	0	0	0	-0.94	-0.93	0	0	0	0	0	0
12/2/2024 15:14	12006	HATF_T1	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
12/2/2024 15:14	12002	HATF_T1	0	1	1	0	0	0	-0.9	-0.87	1	1	0	1200	1200	0
12/2/2024 15:35	41205	KENM_T2	0	0	0	0	0	0	-0.74	-0.75	1	1	0	600	600	0
12/2/2024 15:35	41202	KENM_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
12/2/2024 18:26	17002	RIRO_T2	0	9	9	0	0.1	0.1	0.36	0.36	0	0	0	0	0	0
12/2/2024 18:26	46602	LACR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 18:28	41205	KENM_T2	0	1	1	0	0	0	-0.09	-0.08	0	0	0	0	0	0
12/2/2024 18:28	41202	KENM_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/2/2024 18:28	46203	DANV_T2	8	8	0	0.69	0.59	-0.1	-1.38	-1.39	0	0	0	0	0	0
12/2/2024 18:29	47402	PENS_T1	10	12	2	0.44	0.6	0.16	0	0	0	0	0	0	0	0
12/2/2024 18:29	65601	QVIL_T2	0	0	0	0	0	0	-1.01	-1.03	1	1	0	900	900	0
12/2/2024 18:29	60403	DILL_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/2/2024 18:29	47401	PENS_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
12/2/2024 18:29	60404	DILL_T2	0	1	1	0	3.5	3.5	-0.33	-0.29	1	1	0	1200	1200	0
12/2/2024 18:29	47403	PENS_T1	1	1	0	1.2	1.6	0.4	0	0	0	0	0	0	0	0
12/2/2024 18:30	46203	DANV_T2	0	7	7	0	0.54	0.54	0	0	0	0	0	0	0	0
12/2/2024 18:30	41902	REED_T1	12	13	1	0.36	0.9	0.54	0	0	0	0	0	0	0	0
12/2/2024 18:30	46206	DANV_T2	0	0	0	0	0	0	3.03	3.09	4	4	0	4200	4200	0
12/2/2024 18:30	41901	REED_T1	6	9	3	0.45	0.51	0.06	0	0	0	0	0	0	0	0
12/2/2024 18:30	40201	BEGA_T2	4	6	2	1.7	0.3	-1.4	0	0	0	0	0	0	0	0
12/2/2024 18:30	41903	REED_T1	0	0	0	0	0	0	-0.39	-0.4	1	1	0	1200	1200	0
12/2/2024 18:31	47401	PENS_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
12/2/2024 18:31	67002	STHI_T2	7	12	5	0.14	0.13	-0.01	0.64	0.65	0	0	0	0	0	0
12/2/2024 18:31	47403	PENS_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
12/2/2024 18:31	67001	STHI_T2	105	105	0	0.11	0.11	0	0	0	0	0	0	0	0	0
12/2/2024 18:31	47402	PENS_T1	4	14	10	0.75	0	-0.75	0	0	0	0	0	0	0	0
12/2/2024 18:32	22903	HARW_T1	25	24	-1	1.5	0.2	-1.3	0	0	0	0	0	0	0	0
12/2/2024 18:32	22901	HARW_T1	22	21	-1	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
12/2/2024 18:32	22905	HARW_T1	87	103	16	1.52	1.23	-0.29	-0.22	-0.19	0	0	0	0	0	0
12/2/2024 18:33	40201	BEGA_T2	4	6	2	1.7	0.3	-1.4	0	0	0	0	0	0	0	0
12/2/2024 18:34	42902	MIDD_T2	1	4	3	0.8	0.85	0.05	-0.41	-0.35	0	0	0	0	0	0
12/2/2024 18:34	63501	HEID_TBK1-2	0	5	5	0	0.12	0.12	-0.38	-0.45	1	1	0	900	900	0
12/2/2024 18:34	62106	ELAN_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
12/2/2024 18:34	42903	MIDD_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
12/2/2024 18:35	47403	PENS_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
12/2/2024 18:35	42302	MOWR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 18:35	47401	PENS_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
12/2/2024 18:35	40101	HUNT_T2	464	482	18	1.63	1.21	-0.42	-1.6	-1.62	0	0	0	0	0	0
12/2/2024 18:35	22903	HARW_T1	25	24	-1	1.5	0.2	-1.3	0	0	0	0	0	0	0	0
12/2/2024 18:35	26401	INOR_T1	2	1	-1	2.25	5	2.75	0	0	0	0	0	0	0	0
12/2/2024 18:35	64101	REFR_T1	0	0	0	0	0	0	0.02	0.05	0	0	0	0	0	0
12/2/2024 18:35	22901	HARW_T1	22	21	-1	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
12/2/2024 18:35	47402	PENS_T1	4	14	10	0.75	0	-0.75	0	0	0	0	0	0	0	0
12/2/2024 18:35	63501	HEID_TBK1-2	0	5	5	0	0.12	0.12	-0.38	-0.45	1	1	0	900	900	0
12/2/2024 18:35	45701	LIND_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
12/2/2024 18:35	45702	LIND_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/2/2024 18:35	42301	MOWR_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
12/2/2024 18:35	26402	INOR_T1	0	0	0	0	0	0	83.96	83.96	1	1	0	600	600	0
12/2/2024 18:35	39601	LNFD_T1	24	23	-1	1.55	1.06	-0.49	0	0	1	1	0	900	900	0
12/2/2024 18:35	22905	HARW_T1	87	103	16	1.52	1.23	-0.29	-0.22	-0.19	0	0	0	0	0	0
12/2/2024 18:36	46002	BERW_T2	0	0	0	0	0	0	-1.02	-1.03	1	1	0	900	900	0
12/2/2024 18:36	46004	BERW_T2	16	14	-2	0.67	1.27	0.6	0	0	0	0	0	0	0	0
12/2/2024 18:36	42301	MOWR_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
12/2/2024 18:36	66505	SMAN_T2	4	4	0	0.85	0.97	0.12	0	0	0	0	0	0	0	0
12/2/2024 18:36	16302	ALPA_T2	0	1	1	0	0.3	0.3	0.76	0.7	0	0	0	0	0	0
12/2/2024 18:36	14704	TREX_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
12/2/2024 18:36	40201	BEGA_T2	4	6	2	1.7	0.3	-1.4	0	0	0	0	0	0	0	0
12/2/2024 18:36	25402	LAHA_T2	42	60	18	0.76	0.88	0.12	0.48	0.52	0	0	0	0	0	0
12/2/2024 18:36	42302	MOWR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 18:36	66504	SMAN_T2	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
12/2/2024 18:36	14705	TREX_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
12/2/2024 18:37	45702	LIND_T2	1	1	0	0.4	0.4	0	-0.37	-0.44	0	0	0	0	0	0
12/2/2024 18:37	47203	FAXO_T2	1	1	0	1.1	1.2	0.1	-0.26	-0.3	0	0	0	0	0	0
12/2/2024 18:37	42301	MOWR_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
12/2/2024 18:37	59202	THOM_T1	1	1	0	2.3	0.8	-1.5	0	0	0	0	0	0	0	0
12/2/2024 18:37	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:37	40101	HUNT_T2	464	482	18	1.63	1.21	-0.42	-3.24	-3.24	0	0	0	0	0	0
12/2/2024 18:37	42302	MOWR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 18:37	23403	HONE_T1	0	0	0	0	0	0	-0.69	-0.73	0	0	0	0	0	0
12/2/2024 18:37	63501	HEID_TBK1-2	0	5	5	0	0.12	0.12	-0.45	-0.4	1	1	0	900	900	0
12/2/2024 18:38	20603	GRWO_T2	25	37	12	0.38	0.55	0.17	0.54	0.51	0	0	0	0	0	0
12/2/2024 18:38	67002	STHI_T2	7	12	5	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
12/2/2024 18:38	67702	WERN_T2	3	2	-1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
12/2/2024 18:38	42902	MIDD_T2	1	4	3	0.8	0.85	0.05	-0.35	-0.37	0	0	0	0	0	0
12/2/2024 18:38	44801	EDAN_T2	2	2	0	0.5	0.6	0.1	-0.42	-0.42	0	0	0	0	0	0
12/2/2024 18:38	66505	SMAN_T2	4	4	0	0.85	0.97	0.12	-0.43	-0.48	1	1	0	900	900	0
12/2/2024 18:38	47403	PENS_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
12/2/2024 18:38	59101	WALK_T2	0	0	0	0	0	0	1.03	1.1	1	1	0	600	600	0
12/2/2024 18:38	42903	MIDD_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
12/2/2024 18:38	47401	PENS_T1	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
12/2/2024 18:38	47402	PENS_T1	4	14	10	0.75	0	-0.75	0	0	0	0	0	0	0	0
12/2/2024 18:38	67001	STHI_T2	105	105	0	0.11	0.11	0	0	0	0	0	0	0	0	0
12/2/2024 18:38	40802	EXCH_T2	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
12/2/2024 18:38	62105	ELAN_T1	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
12/2/2024 18:38	59202	THOM_T1	1	1	0	2.3	0.8	-1.5	0	0	0	0	0	0	0	0
12/2/2024 18:38	45702	LIND_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/2/2024 18:38	63501	HEID_TBK1-2	0	5	5	0	0.12	0.12	-0.45	-0.4	1	1	0	900	900	0
12/2/2024 18:38	20602	GRWO_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:38	45701	LIND_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
12/2/2024 18:39	42302	MOWR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 18:39	42504	ALTA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/2/2024 18:39	65205	PRIN_T1	2	1	-1	1.25	1.7	0.45	0	0	0	0	0	0	0	0
12/2/2024 18:39	42503	ALTA_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/2/2024 18:39	59101	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:39	46206	DANV_T2	0	0	0	0	0	0	1.54	1.48	2	2	0	2100	2100	0
12/2/2024 18:39	42501	ALTA_T2	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
12/2/2024 18:39	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:39	46803	HEPB_T2	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
12/2/2024 18:39	40302	TAMA_T3	9	10	1	0.48	0.52	0.04	0	0	0	0	0	0	0	0
12/2/2024 18:39	42301	MOWR_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
12/2/2024 18:39	46203	DANV_T2	8	7	-1	0.53	0.54	0.01	0	0	0	0	0	0	0	0
12/2/2024 18:39	40101	HUNT_T2	464	482	18	1.63	1.21	-0.42	-1.62	-1.62	0	0	0	0	0	0
12/2/2024 18:39	40303	TAMA_T3	1	1	0	0.1	0.1	0	2.51	2.6	0	0	0	0	0	0
12/2/2024 18:40	42504	ALTA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/2/2024 18:40	64101	REFR_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
12/2/2024 18:40	42301	MOWR_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
12/2/2024 18:40	42903	MIDD_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
12/2/2024 18:40	16103	BING_T2	1	0	-1	0.4	0	-0.4	-1.42	-1.42	1	1	0	900	900	0
12/2/2024 18:40	53903	HALI_T2	2	2	0	1.3	1.5	0.2	-0.16	-0.15	0	0	0	0	0	0
12/2/2024 18:40	53901	HALI_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
12/2/2024 18:40	13303	ORVI_T1	0	0	0	0	0	0	0.97	0.96	0	0	0	0	0	0
12/2/2024 18:40	65503	MOJO_T2	0	0	0	0	0	0	-0.29	-0.35	0	0	0	0	0	0
12/2/2024 18:40	42902	MIDD_T2	1	4	3	0.8	0.85	0.05	-0.35	-0.37	0	0	0	0	0	0
12/2/2024 18:40	53902	HALI_T2	1	1	0	5.7	6	0.3	0	0	0	0	0	0	0	0
12/2/2024 18:40	15103	UPHA_T2	0	0	0	0	0	0	0.45	0.49	0	0	0	0	0	0
12/2/2024 18:40	24901	WHHA_T1	0	3	3	0	0.1	0.1	-0.6	-0.63	0	0	0	0	0	0
12/2/2024 18:40	67001	STHI_T2	105	105	0	0.11	0.11	0	0	0	0	0	0	0	0	0
12/2/2024 18:40	42503	ALTA_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/2/2024 18:40	16101	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 18:40	42302	MOWR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 18:40	24902	WHHA_T1	19	19	0	1.02	1.11	0.09	0	0	0	0	0	0	0	0
12/2/2024 18:40	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:40	11104	EGYP_T1	9	6	-3	0.59	0.3	-0.29	0.41	0.46	0	0	0	0	0	0
12/2/2024 18:40	45702	LIND_T2	1	1	0	0.4	0.4	0	-0.37	-0.44	0	0	0	0	0	0
12/2/2024 18:40	67002	STHI_T2	7	12	5	0.14	0.13	-0.01	0.65	0.65	0	0	0	0	0	0
12/2/2024 18:40	44801	EDAN_T2	2	2	0	0.5	0.6	0.1	-0.42	-0.42	0	0	0	0	0	0
12/2/2024 18:40	42501	ALTA_T2	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
12/2/2024 18:41	66505	SMAN_T2	4	4	0	0.85	0.97	0.12	-0.43	-0.48	1	1	0	900	900	0
12/2/2024 18:41	42503	ALTA_T2	3	0	-3	0.2	0	-0.2	0.55	0.56	0	0	0	0	0	0
12/2/2024 18:41	55002	NEWP_T1	0	3	3	0	0.6	0.6	-0.16	-0.18	0	0	0	0	0	0
12/2/2024 18:41	67001	STHI_T2	105	105	0	0.11	0.11	0	0	0	0	0	0	0	0	0
12/2/2024 18:41	58001	WCAR_T1	3	3	0	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/2/2024 18:41	53501	EVIL_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	600	600	0
12/2/2024 18:41	58003	WCAR_T1	1	1	0	0.6	0.6	0	0.49	0.48	0	0	0	0	0	0
12/2/2024 18:41	53903	HALI_T2	2	2	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
12/2/2024 18:41	53902	HALI_T2	1	1	0	5.7	6	0.3	0	0	0	0	0	0	0	0
12/2/2024 18:41	53901	HALI_T2	2	2	0	0.25	0.25	0	-1.31	-1.32	0	0	0	0	0	0
12/2/2024 18:41	42504	ALTA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/2/2024 18:41	42302	MOWR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 18:41	67002	STHI_T2	7	12	5	0.14	0.13	-0.01	0.65	0.65	0	0	0	0	0	0
12/2/2024 18:41	66504	SMAN_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
12/2/2024 18:42	28602	BLYT_T2	2	4	2	0.75	0	-0.75	0	0	0	0	0	0	0	0
12/2/2024 18:42	67702	WERN_T2	3	2	-1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
12/2/2024 18:42	44905	SCOT_T1	9	7	-2	0.29	0.4	0.11	0	0	0	0	0	0	0	0
12/2/2024 18:42	64101	REFR_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/2/2024 18:42	59101	WALK_T2	0	0	0	0	0	0	1.03	1.1	1	1	0	600	600	0
12/2/2024 18:42	53501	EVIL_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	600	600	0
12/2/2024 18:42	22602	KIMB_T1	0	0	0	0	0	0	0.26	0.15	0	0	0	0	0	0
12/2/2024 18:42	61701	ELIZ_T1	1	1	0	4.1	4.3	0.2	0.28	0.28	0	0	0	0	0	0
12/2/2024 18:42	44902	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:42	64503	LAVI_T1	0	0	0	0	0	0	-0.64	-0.71	1	1	0	1200	1200	0
12/2/2024 18:42	48901	FOSP_T2	1	4	3	0.1	0.18	0.08	0.29	0.29	0	0	0	0	0	0
12/2/2024 18:42	44902	SCOT_T2	0	0	0	0	0	0	-0.92	-0.88	0	0	0	0	0	0
12/2/2024 18:42	10705	CATA_T2	0	1	1	0	0	0	-0.86	-0.8	1	1	0	900	900	0
12/2/2024 18:42	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:42	48902	FOSP_T2	8	9	1	0.21	0.26	0.05	0	0	0	0	0	0	0	0
12/2/2024 18:43	67702	WERN_T2	3	2	-1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
12/2/2024 18:43	58003	WCAR_T1	1	1	0	0.6	0.6	0	0.49	0.48	0	0	0	0	0	0
12/2/2024 18:43	64301	LINC_T1	0	0	0	0	0	0	-0.84	-0.93	0	0	0	0	0	0
12/2/2024 18:43	44902	SCOT_T2	0	0	0	0	0	0	-0.92	-0.88	0	0	0	0	0	0
12/2/2024 18:43	64305	LINC_T1	0	0	0	0	0	0	-0.83	-0.47	0	0	0	0	0	0
12/2/2024 18:43	44905	SCOT_T1	9	7	-2	0.29	0.4	0.11	0	0	0	0	0	0	0	0
12/2/2024 18:43	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:43	40201	BEGA_T2	4	6	2	1.7	0.3	-1.4	0	0	0	0	0	0	0	0
12/2/2024 18:43	67001	STHI_T2	105	105	0	0.11	0.11	0	0	0	0	0	0	0	0	0
12/2/2024 18:43	58001	WCAR_T1	3	3	0	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/2/2024 18:43	63501	HEID_TBK1-2	0	5	5	0	0.12	0.12	-0.45	-0.4	1	1	0	900	900	0
12/2/2024 18:43	61103	BERK_T5	1	2	1	0.1	0.15	0.05	0.05	0.05	0	0	0	0	0	0
12/2/2024 18:43	44901	SCOT_T2	0	0	0	0	0	0	-0.12	-0.18	0	0	0	0	0	0
12/2/2024 18:43	67002	STHI_T2	7	12	5	0.14	0.13	-0.01	1.3	1.3	0	0	0	0	0	0
12/2/2024 18:43	61102	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/2/2024 18:44	40101	HUNT_T2	464	482	18	1.63	1.21	-0.42	-1.62	-1.62	0	0	0	0	0	0
12/2/2024 18:44	67702	WERN_T2	3	2	-1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
12/2/2024 18:44	46203	DANV_T2	8	7	-1	0.53	0.54	0.01	-1.39	-1.36	0	0	0	0	0	0
12/2/2024 18:44	40802	EXCH_T2	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
12/2/2024 18:44	64101	REFR_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
12/2/2024 18:44	13104	NHAM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:44	13101	NHAM_T1	10	18	8	0.28	0.29	0.01	-2.65	-2.6	2	2	0	2400	2400	0
12/2/2024 18:44	67001	STHI_T2	105	105	0	0.11	0.11	0	0.16	0.14	0	0	0	0	0	0
12/2/2024 18:44	64902	MILL_T2	0	0	0	0	0	0	-0.34	-0.31	0	0	0	0	0	0
12/2/2024 18:44	67002	STHI_T2	7	12	5	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
12/2/2024 18:44	10801	CHHI_T1	0	0	0	0	0	0	-1.36	-1.39	2	2	0	1500	1500	0
12/2/2024 18:44	66902	SHIL_T2	0	0	0	0	0	0	-1.93	-1.93	0	0	0	0	0	0
12/2/2024 18:44	11202	ELHE_T2	0	0	0	0	0	0	0.41	0.43	1	1	0	1200	1200	0
12/2/2024 18:44	12002	HATF_T1	0	0	0	0	0	0	-0.98	-1.06	1	1	0	1200	1200	0
12/2/2024 18:44	10705	CATA_T2	0	1	1	0	0	0	-0.86	-0.8	1	1	0	900	900	0
12/2/2024 18:44	12006	HATF_T1	2	2	0	1.25	1.6	0.35	0.85	0.81	0	0	0	0	0	0
12/2/2024 18:44	43304	WATS_T2	9	5	-4	0.52	0.45	-0.07	0	0	0	0	0	0	0	0
12/2/2024 18:44	64702	LITI_T2	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
12/2/2024 18:45	66504	SMAN_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
12/2/2024 18:45	54201	PENN_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
12/2/2024 18:45	54501	ENOL_T2	0	0	0	0	0	0	-0.48	-0.46	1	1	0	600	600	0
12/2/2024 18:45	42301	MOWR_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
12/2/2024 18:45	42302	MOWR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 18:45	54203	PENN_T1	18	18	0	0.76	0.78	0.02	-0.68	-0.67	1	1	0	600	600	0
12/2/2024 18:45	29301	DAPP_T1	1	1	0	8.8	9.3	0.5	0	0	1	1	0	600	600	0
12/2/2024 18:45	66505	SMAN_T2	4	3	-1	0.63	0.97	0.34	0	0	0	0	0	0	0	0
12/2/2024 18:45	42504	ALTA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/2/2024 18:45	20603	GRWO_T2	29	38	9	0.63	0.65	0.02	0.54	0.51	0	0	0	0	0	0
12/2/2024 18:45	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
12/2/2024 18:45	64301	LINC_T1	0	0	0	0	0	0	-0.84	-0.93	0	0	0	0	0	0
12/2/2024 18:45	42501	ALTA_T2	0	0	0	0	0	0	1.4	1.36	0	0	0	0	0	0
12/2/2024 18:45	20602	GRWO_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
12/2/2024 18:45	65502	MOJO_T2	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
12/2/2024 18:45	42902	MIDD_T2	0	2	2	0	0.85	0.85	-0.35	-0.37	0	0	0	0	0	0
12/2/2024 18:45	42903	MIDD_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
12/2/2024 18:45	54505	ENOL_T2	0	0	0	0	0	0	-1.12	-1.11	1	1	0	600	600	0
12/2/2024 18:45	64801	MONE_T2	0	0	0	0	0	0	0.47	0.43	0	0	0	0	0	0
12/2/2024 18:46	48902	FOSP_T2	8	9	1	0.24	0.28	0.04	0.07	0.1	0	0	0	0	0	0
12/2/2024 18:46	10801	CHHI_T1	0	0	0	0	0	0	-1.36	-1.39	2	2	0	1500	1500	0
12/2/2024 18:46	64204	KINZ_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
12/2/2024 18:46	57401	SPAN_T1	0	1	1	0	0.1	0.1	-0.62	-0.62	1	1	0	600	600	0
12/2/2024 18:46	14801	TREI_T2	0	0	0	0	0	0	0.74	0.77	0	0	0	0	0	0
12/2/2024 18:46	53901	HALI_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/2/2024 18:46	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:46	64202	KINZ_T1	0	0	0	0	0	0	0.76	0.71	0	0	0	0	0	0
12/2/2024 18:46	42302	MOWR_T2	0	1	1	0	0.1	0.1	0.63	0.63	0	0	0	0	0	0
12/2/2024 18:46	54203	PENN_T1	18	18	0	0.76	0.78	0.02	0	0	0	0	0	0	0	0
12/2/2024 18:46	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:46	10705	CATA_T2	1	0	-1	0.7	0	-0.7	-0.86	-0.8	1	1	0	900	900	0
12/2/2024 18:46	43304	WATS_T2	2	6	4	0.45	0.5	0.05	0	0	0	0	0	0	0	0
12/2/2024 18:46	53902	HALI_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
12/2/2024 18:46	48901	FOSP_T2	4	4	0	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
12/2/2024 18:46	67702	WERN_T2	1	2	1	0.9	0.9	0	0	0	0	0	0	0	0	0
12/2/2024 18:46	53903	HALI_T2	2	2	0	1.3	1.5	0.2	-0.16	-0.15	0	0	0	0	0	0
12/2/2024 18:46	54201	PENN_T1	2	2	0	0.15	0.15	0	0.86	0.9	0	0	0	0	0	0
12/2/2024 18:46	11104	EGYP_T1	6	4	-2	0.42	0.3	-0.12	0.41	0.46	0	0	0	0	0	0
12/2/2024 18:46	14601	SWHI_T1	0	0	0	0	0	0	-0.69	-0.62	0	0	0	0	0	0
12/2/2024 18:47	55101	WERT_T1	0	0	0	0	0	0	-1.42	-1.41	1	1	0	600	600	0
12/2/2024 18:47	42903	MIDD_T2	2	2	0	0.55	0.85	0.3	0	0	0	0	0	0	0	0
12/2/2024 18:47	42302	MOWR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 18:47	65601	QVIL_T2	0	0	0	0	0	0	-1.03	-1.04	1	1	0	900	900	0
12/2/2024 18:47	64101	REFR_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
12/2/2024 18:47	42902	MIDD_T2	4	2	-2	0.63	0.6	-0.03	-0.35	-0.37	0	0	0	0	0	0
12/2/2024 18:47	67001	STHI_T2	83	100	17	0.11	0.11	0	0	0	0	0	0	0	0	0
12/2/2024 18:47	57403	SPAN_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
12/2/2024 18:47	67002	STHI_T2	10	8	-2	0.12	0.13	0.01	0.65	0.65	0	0	0	0	0	0
12/2/2024 18:47	53501	EVIL_T2	0	0	0	0	0	0	-1.53	-1.51	2	2	0	1200	1200	0
12/2/2024 18:47	42301	MOWR_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
12/2/2024 18:47	57401	SPAN_T1	0	1	1	0	0.1	0.1	-0.62	-0.62	1	1	0	600	600	0
12/2/2024 18:48	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:48	65802	RTWN_T2	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
12/2/2024 18:48	51503	SWAT_T1	2	2	0	1.3	1.35	0.05	0	0	0	0	0	0	0	0
12/2/2024 18:48	46102	MACI_T1	0	1	1	0	0.1	0.1	0.69	0.69	0	0	0	0	0	0
12/2/2024 18:48	54603	SUMM_T2	0	0	0	0	0	0	-0.48	-0.5	1	1	0	900	900	0
12/2/2024 18:48	57203	ROSS_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
12/2/2024 18:48	54506	ENOL_T2	0	0	0	0	0	0	0.48	0.58	1	1	0	600	600	0
12/2/2024 18:48	45802	HEGI_T2	44	44	0	0.71	0.6	-0.11	0	0	0	0	0	0	0	0
12/2/2024 18:48	51502	SWAT_T1	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
12/2/2024 18:48	10705	CATA_T2	1	0	-1	0.7	0	-0.7	-0.86	-0.8	1	1	0	900	900	0
12/2/2024 18:48	67702	WERN_T2	1	2	1	0.9	0.9	0	0	0	0	0	0	0	0	0
12/2/2024 18:48	64101	REFR_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
12/2/2024 18:48	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:48	14601	SWHI_T1	0	0	0	0	0	0	-1.38	-1.25	0	0	0	0	0	0
12/2/2024 18:49	57203	ROSS_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
12/2/2024 18:49	58202	NEWV_T1	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
12/2/2024 18:49	66504	SMAN_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
12/2/2024 18:49	57401	SPAN_T1	0	1	1	0	0.1	0.1	-0.62	-0.62	1	1	0	600	600	0
12/2/2024 18:49	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:49	57403	SPAN_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
12/2/2024 18:49	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:49	54502	ENOL_T2	0	0	0	0	0	0	-1.88	-1.91	1	1	0	600	600	0
12/2/2024 18:49	58003	WCAR_T1	1	1	0	0.6	0.6	0	0.49	0.48	0	0	0	0	0	0
12/2/2024 18:49	67702	WERN_T2	1	2	1	0.9	0.9	0	0	0	0	0	0	0	0	0
12/2/2024 18:49	66505	SMAN_T2	4	3	-1	0.63	0.97	0.34	0	0	0	0	0	0	0	0
12/2/2024 18:49	63501	HEID_TBK1-2	1	18	17	0.1	0.14	0.04	-0.45	-0.4	1	1	0	900	900	0
12/2/2024 18:49	58001	WCAR_T1	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
12/2/2024 18:50	42903	MIDD_T2	2	2	0	0.55	0.85	0.3	0	0	0	0	0	0	0	0
12/2/2024 18:50	67402	WAKE_T2	0	0	0	0	0	0	-0.3	-0.32	1	1	0	600	600	0
12/2/2024 18:50	53902	HALI_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
12/2/2024 18:50	64301	LINC_T1	0	0	0	0	0	0	-0.84	-0.93	0	0	0	0	0	0
12/2/2024 18:50	61103	BERK_T5	2	2	0	0.15	0.15	0	0.05	0.05	0	0	0	0	0	0
12/2/2024 18:50	53901	HALI_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/2/2024 18:50	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:50	42902	MIDD_T2	4	2	-2	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
12/2/2024 18:50	42301	MOWR_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
12/2/2024 18:50	54206	PENN_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
12/2/2024 18:50	40602	PIGR_T1	3	2	-1	0.93	1.2	0.27	0	0	0	0	0	0	0	0
12/2/2024 18:50	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 18:50	10705	CATA_T2	1	0	-1	0.7	0	-0.7	-0.86	-0.8	1	1	0	900	900	0
12/2/2024 18:50	53903	HALI_T2	2	2	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
12/2/2024 18:50	42302	MOWR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 18:50	16101	BING_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/2/2024 18:51	64101	REFR_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
12/2/2024 18:51	56501	ROCK_T2	32	36	4	0.25	0.19	-0.06	-4.93	-4.96	0	0	0	0	0	0
12/2/2024 18:51	55101	WERT_T1	0	0	0	0	0	0	-1.42	-1.41	1	1	0	600	600	0
12/2/2024 18:51	44801	EDAN_T2	2	1	-1	0.4	0.8	0.4	-0.42	-0.42	0	0	0	0	0	0
12/2/2024 18:51	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:51	53501	EVIL_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	600	600	0
12/2/2024 18:51	54601	SUMM_T2	0	0	0	0	0	0	-3.87	-3.88	2	2	0	2100	2100	0
12/2/2024 18:51	59101	WALK_T2	0	0	0	0	0	0	1.03	1.1	1	1	0	600	600	0
12/2/2024 18:51	67702	WERN_T2	1	2	1	0.9	0.9	0	0	0	0	0	0	0	0	0
12/2/2024 18:51	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:51	54503	ENOL_T2	0	0	0	0	0	0	-0.31	-0.33	1	1	0	600	600	0
12/2/2024 18:52	53902	HALI_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
12/2/2024 18:52	45802	HEGI_T2	44	44	0	0.71	0.6	-0.11	1.28	1.3	0	0	0	0	0	0
12/2/2024 18:52	14204	EALL_T2	0	0	0	0	0	0	0.38	0.24	0	0	0	0	0	0
12/2/2024 18:52	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:52	11104	EGYP_T1	6	4	-2	0.42	0.3	-0.12	0.46	0.44	0	0	0	0	0	0
12/2/2024 18:52	55102	WERT_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
12/2/2024 18:52	53501	EVIL_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	600	600	0
12/2/2024 18:52	54504	ENOL_T2	0	0	0	0	0	0	-0.95	-0.97	1	1	0	600	600	0
12/2/2024 18:52	54603	SUMM_T2	0	0	0	0	0	0	-0.5	-0.51	1	1	0	900	900	0
12/2/2024 18:52	53901	HALI_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/2/2024 18:52	44301	BEAV_T2	5	4	-1	1.7	0.93	-0.77	-0.23	-0.31	1	1	0	600	600	0
12/2/2024 18:52	54203	PENN_T1	18	18	0	0.76	0.78	0.02	-0.67	-0.67	1	1	0	600	600	0
12/2/2024 18:52	42902	MIDD_T2	4	2	-2	0.63	0.6	-0.03	-0.37	-0.4	0	0	0	0	0	0
12/2/2024 18:52	53903	HALI_T2	2	2	0	1.3	1.5	0.2	-0.15	-0.14	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/2/2024 18:52	42903	MIDD_T2	2	2	0	0.55	0.85	0.3	0	0	0	0	0	0	0	0
12/2/2024 18:52	54201	PENN_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
12/2/2024 18:52	57401	SPAN_T1	0	1	1	0	0.1	0.1	-1.23	-1.27	2	2	0	1200	1200	0
12/2/2024 18:53	58401	MORO_T1	1	1	0	0.7	0	-0.7	-0.87	-0.92	1	1	0	600	600	0
12/2/2024 18:53	63501	HEID_TBK1-2	1	18	17	0.1	0.14	0.04	-0.4	-0.45	1	1	0	900	900	0
12/2/2024 18:53	57201	ROSS_T1	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
12/2/2024 18:53	64904	MILL_T1	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
12/2/2024 18:53	57401	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 18:53	57403	SPAN_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
12/2/2024 18:53	67203	TEHI_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
12/2/2024 18:53	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:53	67201	TEHI_T1	0	0	0	0	0	0	-0.27	-0.26	1	1	0	900	900	0
12/2/2024 18:53	58402	MORO_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/2/2024 18:53	55101	WERT_T1	0	0	0	0	0	0	-1.41	-1.54	1	1	0	600	600	0
12/2/2024 18:54	16005	DORN_T1	1	1	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
12/2/2024 18:54	51702	OBER_T1	2	2	0	2.1	2.1	0	-0.7	-0.7	1	1	0	600	600	0
12/2/2024 18:54	64802	MONE_T2	0	0	0	0	0	0	-0.02	0.02	0	0	0	0	0	0
12/2/2024 18:54	57201	ROSS_T1	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
12/2/2024 18:54	58001	WCAR_T1	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
12/2/2024 18:54	65502	MOJO_T2	0	0	0	0	0	0	-0.96	-0.96	0	0	0	0	0	0
12/2/2024 18:54	66505	SMAN_T2	4	3	-1	0.63	0.97	0.34	-0.48	-0.35	1	1	0	900	900	0
12/2/2024 18:54	16004	DORN_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
12/2/2024 18:54	57401	SPAN_T1	0	1	1	0	0.1	0.1	-0.62	-0.63	1	1	0	600	600	0
12/2/2024 18:54	58003	WCAR_T1	1	1	0	0.6	0.6	0	0.48	0.48	0	0	0	0	0	0
12/2/2024 18:55	57205	ROSS_T1	0	0	0	0	0	0	0.21	0.25	0	0	0	0	0	0
12/2/2024 18:56	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:56	57401	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 18:56	54501	ENOL_T2	0	0	0	0	0	0	-0.46	-0.48	1	1	0	600	600	0
12/2/2024 18:56	63801	HEMP_T1	0	0	0	0	0	0	0.3	-0.02	0	0	0	0	0	0
12/2/2024 18:56	54206	PENN_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
12/2/2024 18:56	63804	HEMP_T1	1	2	1	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
12/2/2024 18:57	57403	SPAN_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
12/2/2024 18:57	57401	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/2/2024 18:57	58202	NEWV_T1	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
12/2/2024 18:58	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 18:58	51702	OBER_T1	2	2	0	2.1	2.1	0	-0.7	-0.7	1	1	0	600	600	0
12/2/2024 18:58	58402	MORO_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/2/2024 18:58	58401	MORO_T1	1	1	0	0.7	0	-0.7	-0.87	-0.92	1	1	0	600	600	0
12/2/2024 18:58	57304	MOAL_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
12/2/2024 18:58	57303	MOAL_T2	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
12/2/2024 18:59	52401	GRPA_T2	74	58	-16	0.9	0.49	-0.41	0	0	0	0	0	0	0	0
12/2/2024 18:59	52403	GRPA_T2	1	2	1	0.2	0	-0.2	0	-0.01	0	0	0	0	0	0
12/2/2024 18:59	52402	GRPA_T2	4	6	2	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
12/2/2024 18:59	54504	ENOL_T2	0	0	0	0	0	0	-0.95	-0.97	1	1	0	600	600	0
12/2/2024 19:00	54206	PENN_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
12/2/2024 19:00	57401	SPAN_T1	1	1	0	0.1	0.1	0	-0.62	-0.63	1	1	0	600	600	0
12/2/2024 19:00	57403	SPAN_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
12/2/2024 19:02	55105	WERT_T1	0	0	0	0	0	0	-0.35	-0.35	1	1	0	900	900	0
12/2/2024 19:03	66505	SMAN_T2	3	3	0	0.97	0.4	-0.57	0	0	0	0	0	0	0	0
12/2/2024 19:03	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/2/2024 19:04	16302	ALPA_T2	1	0	-1	0.3	0	-0.3	0.7	0.7	0	0	0	0	0	0
12/2/2024 19:22	16102	BING_T2	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
12/2/2024 19:47	40101	HUNT_T2	308	441	133	0.76	1.24	0.48	-1.64	-1.56	0	0	0	0	0	0
12/2/2024 20:33	43302	WATS_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
12/2/2024 20:33	43304	WATS_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/2/2024 20:36	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
12/2/2024 20:36	66505	SMAN_T2	3	3	0	0.77	1.1	0.33	0	0	0	0	0	0	0	0
12/2/2024 20:40	67702	WERN_T2	101	142	41	0.42	0.5	0.08	0	0	0	0	0	0	0	0
12/2/2024 23:45	57203	ROSS_T1	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
12/3/2024 1:04	64701	LITI_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
12/3/2024 7:38	66503	SMAN_T2	1	0	-1	4.5	0	-4.5	0	0	0	0	0	0	0	0
12/3/2024 7:38	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 7:50	15201	SFAR_T1	0	0	0	0	0	0	-0.61	-0.61	2	2	0	1800	1800	0
12/3/2024 7:52	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 7:54	15201	SFAR_T1	0	0	0	0	0	0	-0.61	-0.65	2	2	0	1800	1800	0
12/3/2024 8:07	67002	STHI_T2	98	209	111	0.15	0.17	0.02	0.72	0.72	0	0	0	0	0	0
12/3/2024 8:07	67001	STHI_T2	276	366	90	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/3/2024 8:08	15201	SFAR_T1	0	0	0	0	0	0	-0.65	-0.63	2	2	0	1800	1800	0
12/3/2024 8:08	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 8:08	15203	SFAR_T2	0	1	1	0	0	0	-2.61	-2.64	0	0	0	0	0	0
12/3/2024 8:08	67001	STHI_T2	276	366	90	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/3/2024 8:08	67002	STHI_T2	98	209	111	0.15	0.17	0.02	0.72	0.72	0	0	0	0	0	0
12/3/2024 8:10	67002	STHI_T2	98	209	111	0.15	0.17	0.02	0.72	0.72	0	0	0	0	0	0
12/3/2024 8:10	67001	STHI_T2	276	366	90	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/3/2024 8:14	16103	BING_T2	0	0	0	0	0	0	-1.48	-1.52	1	1	0	900	900	0
12/3/2024 8:18	12006	HATF_T1	2	2	0	1.5	0.7	-0.8	0.27	0.18	1	1	0	1200	1200	0
12/3/2024 8:20	66703	STRA_T1	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
12/3/2024 8:21	55002	NEWP_T1	5	5	0	0.42	0.42	0	-0.18	-0.16	0	0	0	0	0	0
12/3/2024 8:21	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/3/2024 8:22	59101	WALK_T2	0	0	0	0	0	0	1.77	1.94	1	1	0	600	600	0
12/3/2024 8:23	59101	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 8:31	45702	LIND_T2	1	2	1	0.1	0.5	0.4	-0.4	-0.38	0	0	0	0	0	0
12/3/2024 8:33	64701	LITI_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
12/3/2024 8:48	45702	LIND_T2	1	3	2	0.2	0.35	0.15	0	0	0	0	0	0	0	0
12/3/2024 8:48	45701	LIND_T2	0	0	0	0	0	0	-1.65	-1.68	0	0	0	0	0	0
12/3/2024 8:50	65205	PRIN_T1	2	1	-1	0.95	0.3	-0.65	0	0	0	0	0	0	0	0
12/3/2024 8:52	41901	REED_T1	5	7	2	0.32	0.34	0.02	0	0	0	0	0	0	0	0
12/3/2024 8:52	43802	SWIL_T1	0	0	0	0	0	0	-0.12	-0.14	1	1	0	600	600	0
12/3/2024 8:52	41903	REED_T1	0	0	0	0	0	0	0.2	0.1	1	1	0	1200	1200	0
12/3/2024 8:52	43801	SWIL_T1	45	11	-34	0.3	0.58	0.28	0	0	0	0	0	0	0	0
12/3/2024 8:55	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 8:55	43801	SWIL_T1	45	11	-34	0.3	0.58	0.28	0	0	0	0	0	0	0	0
12/3/2024 9:00	65205	PRIN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/3/2024 9:00	22905	HARW_T1	0	1	1	0	0	0	-0.41	-0.42	0	0	0	0	0	0
12/3/2024 9:00	64802	MONE_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
12/3/2024 9:00	26402	INOR_T1	0	0	0	0	0	0	83.96	83.96	1	1	0	600	600	0
12/3/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
12/3/2024 9:00	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	-1.05	-1.09	1	0	-1	600	0	-600
12/3/2024 9:00	22901	HARW_T1	2	2	0	1.35	0.9	-0.45	0	0	0	0	0	0	0	0
12/3/2024 9:00	64305	LINC_T1	0	1	1	0	0.4	0.4	-0.48	-0.55	0	0	0	0	0	0
12/3/2024 9:00	22903	HARW_T1	3	3	0	1.1	1.6	0.5	0	0	0	0	0	0	0	0
12/3/2024 9:00	65202	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/3/2024 9:00	26401	INOR_T1	1	1	0	5.8	6.3	0.5	0	0	0	0	0	0	0	0
12/3/2024 9:01	52402	GRPA_T2	4	11	7	0.43	1.24	0.81	0	0	0	0	0	0	0	0
12/3/2024 9:01	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/3/2024 9:01	52403	GRPA_T2	4	7	3	0.53	0.52	-0.01	-0.04	-0.09	0	0	0	0	0	0
12/3/2024 9:01	52404	GRPA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/3/2024 9:02	64901	MILL_T1	18	23	5	0.13	0.14	0.01	0	0	0	0	0	0	0	0
12/3/2024 9:02	64904	MILL_T1	2	1	-1	0.1	0.1	0	-0.34	-0.35	0	0	0	0	0	0
12/3/2024 9:05	64101	REFR_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
12/3/2024 9:07	67502	WEWI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/3/2024 9:07	67503	WEWI_T2	1	1	0	7.3	7.6	0.3	0.2	0.13	0	0	0	0	0	0
12/3/2024 9:08	65702	RVIL_T2	0	0	0	0	0	0	-1.02	-1.02	1	1	0	600	600	0
12/3/2024 9:11	46206	DANV_T2	2	1	-1	0.35	0	-0.35	1.91	1.89	2	2	0	2100	2100	0
12/3/2024 9:11	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 9:12	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 9:12	16103	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 9:12	16102	BING_T2	0	1	1	0	0.1	0.1	0.02	0.13	0	0	0	0	0	0
12/3/2024 9:12	46206	DANV_T2	2	1	-1	0.35	0	-0.35	1.91	1.89	2	2	0	2100	2100	0
12/3/2024 9:14	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 9:14	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 9:14	46206	DANV_T2	2	1	-1	0.35	0	-0.35	1.91	1.89	2	2	0	2100	2100	0
12/3/2024 9:18	46506	LOHA_T1	3	3	0	3.43	3.7	0.27	0	0	0	0	0	0	0	0
12/3/2024 9:18	46501	LOHA_T1	0	0	0	0	0	0	0.04	-0.11	1	1	0	1200	1200	0
12/3/2024 9:20	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
12/3/2024 9:20	46506	LOHA_T1	3	3	0	3.43	3.7	0.27	0	0	0	0	0	0	0	0
12/3/2024 9:21	57401	SPAN_T1	2	2	0	0.6	0.2	-0.4	-0.67	-0.71	1	1	0	600	600	0
12/3/2024 9:21	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
12/3/2024 9:21	57403	SPAN_T1	24	1	-23	0.34	0.2	-0.14	0.22	0.15	0	0	0	0	0	0
12/3/2024 9:21	46506	LOHA_T1	3	3	0	3.43	3.7	0.27	0	0	0	0	0	0	0	0
12/3/2024 9:23	57201	ROSS_T1	0	0	0	0	0	0	-0.4	-0.44	0	0	0	0	0	0
12/3/2024 9:24	14801	TREI_T2	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
12/3/2024 9:24	67201	TEHI_T1	0	0	0	0	0	0	1.06	1.06	1	1	0	900	900	0
12/3/2024 9:24	67203	TEHI_T1	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
12/3/2024 9:24	14704	TREX_T1	1	1	0	7.7	6.5	-1.2	0	0	0	0	0	0	0	0
12/3/2024 9:24	14705	TREX_T1	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
12/3/2024 9:25	57203	ROSS_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
12/3/2024 9:25	57201	ROSS_T1	0	0	0	0	0	0	-0.4	-0.44	0	0	0	0	0	0
12/3/2024 9:27	45501	DERR_T2	0	0	0	0	0	0	0.77	0.78	2	2	0	1800	1800	0
12/3/2024 9:28	45501	DERR_T2	0	0	0	0	0	0	0.77	0.78	2	2	0	1800	1800	0
12/3/2024 9:29	23403	HONE_T1	0	0	0	0	0	0	-0.66	-0.69	0	0	0	0	0	0
12/3/2024 9:34	63803	HEMP_T1	1	2	1	0.6	0.5	-0.1	0.09	0.09	0	0	0	0	0	0
12/3/2024 9:34	64101	REFR_T1	0	1	1	0	0.3	0.3	0.06	-0.01	0	0	0	0	0	0
12/3/2024 9:34	63804	HEMP_T1	9	4	-5	2.43	6.4	3.97	0	0	0	0	0	0	0	0
12/3/2024 9:35	55002	NEWP_T1	1	3	2	0.9	0.63	-0.27	-0.18	-0.2	0	0	0	0	0	0
12/3/2024 9:35	64101	REFR_T1	0	1	1	0	0.3	0.3	0.06	-0.01	0	0	0	0	0	0
12/3/2024 9:36	64902	MILL_T2	0	1	1	0	0.8	0.8	-0.68	-0.7	1	1	0	900	900	0
12/3/2024 9:36	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
12/3/2024 9:37	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 9:37	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
12/3/2024 9:37	24901	WHHA_T1	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
12/3/2024 9:37	24902	WHHA_T1	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/3/2024 9:37	43801	SWIL_T1	10	5	-5	0.64	1.1	0.46	0	0	0	0	0	0	0	0
12/3/2024 9:38	13704	SCHN_T2	0	0	0	0	0	0	-0.19	-0.3	0	0	0	0	0	0
12/3/2024 9:39	43802	SWIL_T1	0	0	0	0	0	0	-0.15	-0.14	1	1	0	600	600	0
12/3/2024 9:39	43801	SWIL_T1	10	5	-5	0.64	1.1	0.46	0	0	0	0	0	0	0	0
12/3/2024 9:39	59101	WALK_T2	0	0	0	0	0	0	1.36	1.82	1	1	0	600	600	0
12/3/2024 9:39	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
12/3/2024 9:40	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
12/3/2024 9:41	59101	WALK_T2	0	0	0	0	0	0	2.72	3.65	2	2	0	1200	1200	0
12/3/2024 9:41	44801	EDAN_T2	0	2	2	0	0	0	-0.32	-0.32	0	0	0	0	0	0
12/3/2024 9:42	44801	EDAN_T2	0	2	2	0	0	0	-0.32	-0.32	0	0	0	0	0	0
12/3/2024 9:42	59101	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/3/2024 9:43	44801	EDAN_T2	0	2	2	0	0	0	-0.32	-0.32	0	0	0	0	0	0
12/3/2024 9:45	45701	LIND_T2	0	0	0	0	0	0	-1.62	-1.59	0	0	0	0	0	0
12/3/2024 9:47	53502	EVIL_T2	1	1	0	3.2	1.7	-1.5	0	0	0	0	0	0	0	0
12/3/2024 9:47	53501	EVIL_T2	2	3	1	0.6	0.5	-0.1	-1.14	-1.15	2	2	0	1200	1200	0
12/3/2024 9:48	64801	MONE_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/3/2024 9:48	64802	MONE_T2	2	25	23	0.15	0.16	0.01	0.28	0.23	0	0	0	0	0	0
12/3/2024 9:49	65207	PRIN_T4	2	2	0	2.85	1.3	-1.55	0	0	1	1	0	1200	1200	0
12/3/2024 9:49	65206	PRIN_T4	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
12/3/2024 9:50	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 9:51	64801	MONE_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/3/2024 9:51	64802	MONE_T2	2	25	23	0.15	0.16	0.01	0.23	0.27	0	0	0	0	0	0
12/3/2024 9:55	57205	ROSS_T1	0	0	0	0	0	0	0.31	0.26	0	0	0	0	0	0
12/3/2024 9:55	65802	RTWN_T2	0	0	0	0	0	0	-0.18	-0.09	0	0	0	0	0	0
12/3/2024 9:57	61001	DONV_T1	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
12/3/2024 9:59	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 9:59	44502	HAMI_T2	1	1	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
12/3/2024 10:00	61001	DONV_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
12/3/2024 10:01	44505	HAMI_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
12/3/2024 10:01	40801	EXCH_T2	0	2	2	0	0.1	0.1	-0.46	-0.5	1	1	0	1200	1200	0
12/3/2024 10:01	44502	HAMI_T2	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0	0
12/3/2024 10:02	44502	HAMI_T2	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0	0
12/3/2024 10:02	44505	HAMI_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
12/3/2024 10:02	14204	EALL_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
12/3/2024 10:03	65502	MOJO_T2	0	0	0	0	0	0	0.16	0.2	0	0	0	0	0	0
12/3/2024 10:04	47403	PENS_T1	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
12/3/2024 10:04	47401	PENS_T1	0	0	0	0	0	0	0.17	-1.01	0	0	0	0	0	0
12/3/2024 10:05	54201	PENN_T1	7	13	6	0.77	0.59	-0.18	0	0.02	0	0	0	0	0	0
12/3/2024 10:05	54203	PENN_T1	19	23	4	0.95	0.96	0.01	0.06	0.02	0	0	0	0	0	0
12/3/2024 10:06	55101	WERT_T1	0	0	0	0	0	0	-1.14	-1.14	1	1	0	600	600	0
12/3/2024 10:06	42902	MIDD_T2	0	0	0	0	0	0	-0.76	-0.7	1	1	0	600	600	0
12/3/2024 10:06	55105	WERT_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/3/2024 10:06	14201	EALL_T1	0	0	0	0	0	0	0.6	0.55	0	0	0	0	0	0
12/3/2024 10:06	42903	MIDD_T2	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
12/3/2024 10:06	54201	PENN_T1	7	13	6	0.77	0.59	-0.18	0	0	0	0	0	0	0	0
12/3/2024 10:06	54203	PENN_T1	19	23	4	0.95	0.96	0.01	0.06	0.02	0	0	0	0	0	0
12/3/2024 10:08	59101	WALK_T2	0	0	0	0	0	0	1.64	1.13	1	1	0	600	600	0
12/3/2024 10:08	25801	SUTR_T2	2	2	0	8.9	8.85	-0.05	-0.01	-0.02	0	0	0	0	0	0
12/3/2024 10:09	52204	DEVO_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
12/3/2024 10:09	60701	BREC_T1	0	0	0	0	0	0	-0.23	-0.24	2	2	0	1200	1200	0
12/3/2024 10:09	54203	PENN_T1	19	23	4	0.95	0.96	0.01	0	0	0	0	0	0	0	0
12/3/2024 10:09	54201	PENN_T1	7	13	6	0.77	0.59	-0.18	0.02	0	0	0	0	0	0	0
12/3/2024 10:09	52202	DEVO_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
12/3/2024 10:10	16302	ALPA_T2	1	0	-1	0.3	0	-0.3	0.67	0.65	0	0	0	0	0	0
12/3/2024 10:11	59101	WALK_T2	0	0	0	0	0	0	1.64	1.13	1	1	0	600	600	0
12/3/2024 10:12	16302	ALPA_T2	1	0	-1	0.3	0	-0.3	1.35	1.31	0	0	0	0	0	0
12/3/2024 10:12	60701	BREC_T1	0	0	0	0	0	0	-0.45	-0.48	4	4	0	2400	2400	0
12/3/2024 10:12	59101	WALK_T2	0	0	0	0	0	0	1.64	1.13	1	1	0	600	600	0
12/3/2024 10:13	60701	BREC_T1	0	0	0	0	0	0	-0.23	-0.24	2	2	0	1200	1200	0
12/3/2024 10:14	16302	ALPA_T2	1	0	-1	0.3	0	-0.3	0.67	0.65	0	0	0	0	0	0
12/3/2024 10:14	60701	BREC_T1	0	0	0	0	0	0	-0.23	-0.24	2	2	0	1200	1200	0
12/3/2024 10:14	45802	HEGI_T2	42	13	-29	0.93	0.36	-0.57	0	0	0	0	0	0	0	0
12/3/2024 10:15	54503	ENOL_T2	0	0	0	0	0	0	-0.38	-0.38	1	1	0	600	600	0
12/3/2024 10:15	54505	ENOL_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
12/3/2024 10:15	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/3/2024 10:18	58202	NEWV_T1	0	0	0	0	0	0	0.24	0.29	0	0	0	0	0	0
12/3/2024 10:18	52503	PROG_T2	0	0	0	0	0	0	0.47	0.56	0	0	0	0	0	0
12/3/2024 10:20	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 10:20	65207	PRIN_T4	2	3	1	2.8	1.9	-0.9	0	0	0	0	0	0	0	0
12/3/2024 10:20	52502	PROG_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
12/3/2024 10:20	65206	PRIN_T4	5	12	7	0.1	0.1	0	0	0	0	0	0	0	0	0
12/3/2024 10:21	64101	REFR_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/3/2024 10:21	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 10:21	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 10:22	64101	REFR_T1	1	0	-1	0.4	0	-0.4	-0.02	-0.02	0	0	0	0	0	0
12/3/2024 10:22	55002	NEWP_T1	3	5	2	0.63	0.64	0.01	-0.2	-0.18	0	0	0	0	0	0
12/3/2024 10:22	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/3/2024 10:23	65802	RTWN_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
12/3/2024 10:24	52502	PROG_T2	0	0	0	0	0	0	0.5	0.45	0	0	0	0	0	0
12/3/2024 10:26	10801	CHHI_T1	0	1	1	0	0.6	0.6	-0.74	-0.55	1	1	0	900	900	0
12/3/2024 10:29	52503	PROG_T2	0	0	0	0	0	0	0.56	0.41	0	0	0	0	0	0
12/3/2024 10:30	46203	DANV_T2	0	2	2	0	0.4	0.4	-0.48	-0.49	0	0	0	0	0	0
12/3/2024 10:30	10801	CHHI_T1	1	0	-1	0.6	0	-0.6	-0.74	-0.55	1	1	0	900	900	0
12/3/2024 10:30	46206	DANV_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
12/3/2024 10:31	46206	DANV_T2	2	1	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/3/2024 10:31	46203	DANV_T2	2	2	0	0.8	0.7	-0.1	-0.48	-0.49	0	0	0	0	0	0
12/3/2024 10:32	63602	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/3/2024 10:32	63601	LETO_T1	6	6	0	0.55	0.58	0.03	1.01	1.09	0	0	0	0	0	0
12/3/2024 10:35	63601	LETO_T1	6	6	0	0.55	0.58	0.03	1.01	1.09	0	0	0	0	0	0
12/3/2024 10:35	64904	MILL_T1	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
12/3/2024 10:35	63602	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/3/2024 10:36	67002	STHI_T2	5	4	-1	0.14	0.13	-0.01	1.35	1.31	0	0	0	0	0	0
12/3/2024 10:36	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 10:36	67001	STHI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/3/2024 10:37	67001	STHI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/3/2024 10:37	67002	STHI_T2	5	4	-1	0.14	0.13	-0.01	1.35	1.31	0	0	0	0	0	0
12/3/2024 10:38	67001	STHI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/3/2024 10:38	44902	SCOT_T2	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
12/3/2024 10:38	67002	STHI_T2	5	4	-1	0.14	0.13	-0.01	0.68	0.66	0	0	0	0	0	0
12/3/2024 10:39	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 10:39	53102	WTWN_T1	0	0	0	0	0	0	-1.16	-1.12	0	0	0	0	0	0
12/3/2024 10:39	67001	STHI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/3/2024 10:39	67002	STHI_T2	5	4	-1	0.14	0.13	-0.01	0.68	0.66	0	0	0	0	0	0
12/3/2024 10:40	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 10:42	54505	ENOL_T2	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
12/3/2024 10:42	54502	ENOL_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
12/3/2024 10:42	54501	ENOL_T2	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
12/3/2024 10:44	20603	GRWO_T2	16	10	-6	0.41	0.18	-0.23	-0.61	-0.56	1	1	0	900	900	0
12/3/2024 10:44	20601	GRWO_T2	1	1	0	0.6	2.1	1.5	0	0	0	0	0	0	0	0
12/3/2024 10:46	54502	ENOL_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
12/3/2024 10:46	11202	ELHE_T2	0	0	0	0	0	0	0.4	0.42	1	1	0	1200	1200	0
12/3/2024 10:46	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
12/3/2024 10:46	11201	ELHE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 10:46	54501	ENOL_T2	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
12/3/2024 10:46	52403	GRPA_T2	10	9	-1	0.92	0.74	-0.18	-0.07	-0.08	0	0	0	0	0	0
12/3/2024 10:46	52402	GRPA_T2	8	15	7	0.38	0.46	0.08	0	0	0	0	0	0	0	0
12/3/2024 10:46	52401	GRPA_T2	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
12/3/2024 10:48	47203	FAXO_T2	1	1	0	1.6	1.5	-0.1	-1.04	-1.04	0	0	0	0	0	0
12/3/2024 10:51	42902	MIDD_T2	0	2	2	0	0.3	0.3	-0.65	-0.72	1	1	0	600	600	0
12/3/2024 10:51	42903	MIDD_T2	2	2	0	0.55	0.8	0.25	0	0	0	0	0	0	0	0
12/3/2024 10:52	53102	WTWN_T1	0	0	0	0	0	0	-1.12	-1.12	0	0	0	0	0	0
12/3/2024 10:55	67402	WAKE_T2	2	1	-1	0.2	0.2	0	0.47	0.46	1	1	0	600	600	0
12/3/2024 10:55	67401	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/3/2024 10:56	67401	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/3/2024 10:56	67402	WAKE_T2	2	1	-1	0.2	0.2	0	0.47	0.46	1	1	0	600	600	0
12/3/2024 10:57	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 10:58	22905	HARW_T1	13	18	5	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
12/3/2024 10:58	22901	HARW_T1	2	5	3	1.4	1.45	0.05	0	0	0	0	0	0	0	0
12/3/2024 10:58	22903	HARW_T1	33	31	-2	1.76	1.64	-0.12	0.5	0.43	0	0	0	0	0	0
12/3/2024 11:00	40802	EXCH_T2	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
12/3/2024 11:00	40801	EXCH_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/3/2024 11:01	40801	EXCH_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/3/2024 11:01	40802	EXCH_T2	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
12/3/2024 11:03	22602	KIMB_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
12/3/2024 11:07	57401	SPAN_T1	40	54	14	0.26	0.25	-0.01	-1.6	-1.7	2	2	0	1200	1200	0
12/3/2024 11:07	57403	SPAN_T1	25	70	45	0.32	0.33	0.01	0	0	0	0	0	0	0	0
12/3/2024 11:08	14801	TREI_T2	2	3	1	0.5	0.5	0	0	0	0	0	0	0	0	0
12/3/2024 11:08	14802	TREI_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
12/3/2024 11:08	57403	SPAN_T1	25	70	45	0.32	0.33	0.01	0	0	0	0	0	0	0	0
12/3/2024 11:08	57401	SPAN_T1	40	54	14	0.26	0.25	-0.01	-2.41	-2.55	3	3	0	1800	1800	0
12/3/2024 11:09	57401	SPAN_T1	40	54	14	0.26	0.25	-0.01	-1.6	-1.7	2	2	0	1200	1200	0
12/3/2024 11:09	57403	SPAN_T1	25	70	45	0.32	0.33	0.01	0.28	0.3	0	0	0	0	0	0
12/3/2024 11:10	57203	ROSS_T1	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
12/3/2024 11:10	57401	SPAN_T1	40	54	14	0.26	0.25	-0.01	-0.8	-0.85	1	1	0	600	600	0
12/3/2024 11:10	57205	ROSS_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
12/3/2024 11:10	14802	TREI_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
12/3/2024 11:10	57403	SPAN_T1	25	70	45	0.32	0.33	0.01	0	0	0	0	0	0	0	0
12/3/2024 11:10	14801	TREI_T2	2	3	1	0.5	0.5	0	0	0	0	0	0	0	0	0
12/3/2024 11:12	12502	MITR_T2	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
12/3/2024 11:12	12501	MITR_T2	0	0	0	0	0	0	-0.04	-0.08	0	0	0	0	0	0
12/3/2024 11:13	44802	EDAN_T2	0	0	0	0	0	0	-2.19	-2.22	0	0	0	0	0	0
12/3/2024 11:13	44801	EDAN_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
12/3/2024 11:14	11301	EMMA_T1	0	0	0	0	0	0	-1.54	-1.5	0	0	0	0	0	0
12/3/2024 11:14	11303	EMMA_T1	2	4	2	0.55	0.48	-0.07	0	0	0	0	0	0	0	0
12/3/2024 11:15	40702	FFLD_T1	2	4	2	0.3	0.3	0	0	0	0	0	0	0	0	0
12/3/2024 11:15	57403	SPAN_T1	32	110	78	0.32	0.39	0.07	0	0	0	0	0	0	0	0
12/3/2024 11:15	40703	FFLD_T1	2	4	2	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
12/3/2024 11:15	40701	FFLD_T1	24	52	28	0.27	0.34	0.07	0	0	0	0	0	0	0	0
12/3/2024 11:15	44802	EDAN_T2	0	0	0	0	0	0	-4.38	-4.44	0	0	0	0	0	0
12/3/2024 11:15	57401	SPAN_T1	33	70	37	0.23	0.24	0.01	-0.8	-0.85	1	1	0	600	600	0
12/3/2024 11:15	43801	SWIL_T1	0	7	7	0	0.79	0.79	0	0	0	0	0	0	0	0
12/3/2024 11:15	43802	SWIL_T1	0	0	0	0	0	0	-0.13	-0.12	1	1	0	600	600	0
12/3/2024 11:15	63501	HEID_TBK1-2	1	0	-1	0.1	0	-0.1	0.07	0.1	1	1	0	900	900	0
12/3/2024 11:16	17802	GILB_T1	1	2	1	0.4	0.7	0.3	0.23	0.25	0	0	0	0	0	0
12/3/2024 11:16	52503	PROG_T2	0	0	0	0	0	0	0.6	0.41	0	0	0	0	0	0
12/3/2024 11:16	44802	EDAN_T2	0	0	0	0	0	0	-2.19	-2.22	0	0	0	0	0	0
12/3/2024 11:18	63501	HEID_TBK1-2	1	0	-1	0.1	0	-0.1	0.07	0.1	1	1	0	900	900	0
12/3/2024 11:20	51003	NHAR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
12/3/2024 11:20	51002	NHAR_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
12/3/2024 11:20	51004	NHAR_T1	2	2	0	5.55	5.45	-0.1	-0.51	-0.5	0	0	0	0	0	0
12/3/2024 11:20	51006	NHAR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/3/2024 11:24	59101	WALK_T2	0	0	0	0	0	0	1.75	1.83	1	1	0	600	600	0
12/3/2024 11:24	57403	SPAN_T1	32	110	78	0.32	0.39	0.07	0.15	0.16	0	0	0	0	0	0
12/3/2024 11:24	57401	SPAN_T1	33	70	37	0.23	0.24	0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/3/2024 11:24	59102	WALK_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
12/3/2024 11:26	59101	WALK_T2	0	0	0	0	0	0	1.75	1.83	1	1	0	600	600	0
12/3/2024 11:26	59102	WALK_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
12/3/2024 11:27	59101	WALK_T2	0	0	0	0	0	0	1.75	1.83	1	1	0	600	600	0
12/3/2024 11:27	59102	WALK_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
12/3/2024 11:30	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
12/3/2024 11:30	52403	GRPA_T2	5	15	10	0.8	0.57	-0.23	-0.06	-0.1	0	0	0	0	0	0
12/3/2024 11:30	52402	GRPA_T2	9	11	2	0.52	0.48	-0.04	0	0	0	0	0	0	0	0
12/3/2024 11:30	64204	KINZ_T1	1	19	18	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
12/3/2024 11:30	54506	ENOL_T2	0	1	1	0	0.1	0.1	-0.19	-0.2	1	1	0	600	600	0
12/3/2024 11:30	64202	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/3/2024 11:30	54504	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/3/2024 11:30	54505	ENOL_T2	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
12/3/2024 11:30	64203	KINZ_T1	0	0	0	0	0	0	-0.04	-0.34	2	2	0	900	900	0
12/3/2024 11:30	52401	GRPA_T2	1	3	2	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
12/3/2024 11:31	63501	HEID_TBK1-2	0	0	0	0	0	0	0.3	-0.08	3	3	0	2700	2700	0
12/3/2024 11:34	58202	NEWV_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
12/3/2024 11:41	49804	UNIV_T1	1	0	-1	0.8	0	-0.8	0.54	0.53	0	0	0	0	0	0
12/3/2024 11:41	49803	UNIV_T1	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
12/3/2024 11:42	21501	CEAV_T2	0	0	0	0	0	0	1.68	1.26	0	0	0	0	0	0
12/3/2024 11:42	45501	DERR_T2	0	0	0	0	0	0	0.64	0.64	2	2	0	1800	1800	0
12/3/2024 11:42	58003	WCAR_T1	1	3	2	1.3	0.6	-0.7	2.96	2.88	0	0	0	0	0	0
12/3/2024 11:42	58001	WCAR_T1	4	4	0	1.38	1.53	0.15	0	0	0	0	0	0	0	0
12/3/2024 11:42	21502	CEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/3/2024 11:43	44502	HAMI_T2	1	1	0	3.6	3.6	0	0	0	0	0	0	0	0	0
12/3/2024 11:43	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 11:44	53901	HALI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
12/3/2024 11:44	53903	HALI_T2	3	2	-1	0.83	1.4	0.57	-0.09	-0.09	0	0	0	0	0	0
12/3/2024 11:44	53902	HALI_T2	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
12/3/2024 11:44	60902	DONG_T2	0	0	0	0	0	0	0.45	0.52	0	0	0	0	0	0
12/3/2024 11:45	64203	KINZ_T1	0	0	0	0	0	0	-0.34	0.24	2	1	-1	900	600	-300
12/3/2024 11:45	64202	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/3/2024 11:45	64204	KINZ_T1	1	19	18	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
12/3/2024 11:46	16004	DORN_T1	1	0	-1	0.8	0	-0.8	-1.19	-1.18	1	1	0	1200	1200	0
12/3/2024 11:46	16005	DORN_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
12/3/2024 11:48	44505	HAMI_T2	0	0	0	0	0	0	1.08	1.07	0	0	0	0	0	0
12/3/2024 11:48	10903	COOP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/3/2024 11:48	44502	HAMI_T2	1	1	0	3.5	3.6	0.1	0	0	0	0	0	0	0	0
12/3/2024 11:49	65602	QVIL_T2	17	43	26	0.25	0.57	0.32	0	0	0	0	0	0	0	0
12/3/2024 11:49	65601	QVIL_T2	2	3	1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
12/3/2024 11:50	55002	NEWP_T1	6	8	2	0.7	0.7	0	-0.2	-0.18	0	0	0	0	0	0
12/3/2024 11:50	13302	ORVI_T2	2	2	0	1	0.95	-0.05	1.27	1.2	0	0	0	0	0	0
12/3/2024 11:51	52402	GRPA_T2	9	12	3	0.52	0.44	-0.08	0	0	0	0	0	0	0	0
12/3/2024 11:51	52401	GRPA_T2	2	29	27	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
12/3/2024 11:51	52403	GRPA_T2	6	15	9	0.75	0.56	-0.19	-0.1	-0.11	0	0	0	0	0	0
12/3/2024 11:54	65601	QVIL_T2	2	3	1	0.25	0.27	0.02	-1.14	-1.16	1	1	0	900	900	0
12/3/2024 11:54	65602	QVIL_T2	17	43	26	0.25	0.57	0.32	0	0	0	0	0	0	0	0
12/3/2024 11:55	57403	SPAN_T1	107	94	-13	0.39	0.36	-0.03	0.15	0.14	0	0	0	0	0	0
12/3/2024 11:55	57401	SPAN_T1	47	121	74	0.25	0.25	0	0	0	0	0	0	0	0	0
12/3/2024 11:55	46203	DANV_T2	1	3	2	0.3	0.3	0	-0.54	-0.6	0	0	0	0	0	0
12/3/2024 11:55	46206	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 11:55	46202	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 11:58	57403	SPAN_T1	107	94	-13	0.39	0.36	-0.03	0.15	0.14	0	0	0	0	0	0
12/3/2024 11:58	57401	SPAN_T1	47	121	74	0.25	0.25	0	0	0	0	0	0	0	0	0
12/3/2024 11:59	53903	HALI_T2	2	2	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
12/3/2024 11:59	53901	HALI_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
12/3/2024 11:59	53902	HALI_T2	1	1	0	5.8	5.7	-0.1	-0.88	-0.85	0	0	0	0	0	0
12/3/2024 12:05	65503	MOJO_T2	0	0	0	0	0	0	-1	-1.08	1	1	0	900	900	0
12/3/2024 12:11	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/3/2024 12:12	54601	SUMM_T2	9	11	2	1.01	0.79	-0.22	-1.99	0	2	2	0	2100	2100	0
12/3/2024 12:12	54602	SUMM_T2	5	4	-1	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
12/3/2024 12:14	59101	WALK_T2	0	5	5	0	0.38	0.38	1.43	1.33	1	1	0	600	600	0
12/3/2024 12:14	54602	SUMM_T2	5	4	-1	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
12/3/2024 12:14	24702	FLND_T2	0	0	0	0	0	0	0.03	-0.05	1	1	0	1200	1200	0
12/3/2024 12:14	59102	WALK_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/3/2024 12:14	54601	SUMM_T2	9	11	2	1.01	0.79	-0.22	-3.99	0	4	4	0	4200	4200	0
12/3/2024 12:15	40101	HUNT_T2	15	4	-11	0.57	0.4	-0.17	-1.67	-1.68	0	0	0	0	0	0
12/3/2024 12:15	54601	SUMM_T2	11	4	-7	0.79	0.43	-0.36	-1.99	0	2	2	0	2100	2100	0
12/3/2024 12:15	54602	SUMM_T2	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
12/3/2024 12:15	25402	LAHA_T2	5	8	3	0.56	0.77	0.21	0.71	0.4	0	0	0	0	0	0
12/3/2024 12:16	47202	FAXO_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 12:16	47201	FAXO_T2	0	0	0	0	0	0	-2.21	-2.23	1	1	0	1200	1200	0
12/3/2024 12:16	67602	WARW_T2	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
12/3/2024 12:16	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 12:16	47203	FAXO_T2	1	1	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
12/3/2024 12:16	54601	SUMM_T2	11	4	-7	0.79	0.43	-0.36	-1.99	0	2	2	0	2100	2100	0
12/3/2024 12:16	54602	SUMM_T2	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
12/3/2024 12:17	65001	NEFF_T2	0	0	0	0	0	0	0.67	0.6	0	0	0	0	0	0
12/3/2024 12:17	45702	LIND_T2	2	2	0	0.75	0.9	0.15	-0.55	-0.59	0	0	0	0	0	0
12/3/2024 12:17	65003	NEFF_T2	3	3	0	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
12/3/2024 12:18	65003	NEFF_T2	3	3	0	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
12/3/2024 12:18	65004	NEFF_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
12/3/2024 12:19	60501	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/3/2024 12:19	60502	NMAN_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
12/3/2024 12:20	22602	KIMB_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
12/3/2024 12:20	60501	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/3/2024 12:20	53903	HALI_T2	2	2	0	0.9	1.25	0.35	0	0	0	0	0	0	0	0
12/3/2024 12:20	53901	HALI_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
12/3/2024 12:20	53902	HALI_T2	1	1	0	5.4	5.8	0.4	0	0	0	0	0	0	0	0
12/3/2024 12:20	60502	NMAN_T2	0	1	1	0	0.6	0.6	-0.1	-0.3	0	0	0	0	0	0
12/3/2024 12:21	60501	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/3/2024 12:21	60502	NMAN_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
12/3/2024 12:22	54601	SUMM_T2	11	4	-7	0.79	0.43	-0.36	0	0	2	2	0	2100	2100	0
12/3/2024 12:22	56503	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 12:22	54602	SUMM_T2	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
12/3/2024 12:22	56501	ROCK_T2	0	1	1	0	0	0	-1.21	-1.17	0	0	0	0	0	0
12/3/2024 12:23	47401	PENS_T1	0	0	0	0	0	0	0.2	0.24	0	0	0	0	0	0
12/3/2024 12:23	47403	PENS_T1	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
12/3/2024 12:23	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/3/2024 12:25	54602	SUMM_T2	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
12/3/2024 12:25	54601	SUMM_T2	11	4	-7	0.79	0.43	-0.36	0	0	0	0	0	0	0	0
12/3/2024 12:27	46004	BERW_T2	0	6	6	0	0.32	0.32	0	0	0	0	0	0	0	0
12/3/2024 12:27	57205	ROSS_T1	3	3	0	0.53	0.6	0.07	0.29	0.27	0	0	0	0	0	0
12/3/2024 12:27	46002	BERW_T2	0	0	0	0	0	0	-0.67	-0.75	1	1	0	900	900

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/3/2024 13:00	60803	BUCK_T1	2	0	-2	0.2	0	-0.2	-0.5	-0.5	1	1	0	600	600	0
12/3/2024 13:00	60801	BUCK_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/3/2024 13:05	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 13:05	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/3/2024 13:05	66505	SMAN_T2	3	3	0	0.17	0.57	0.4	0	0	0	0	0	0	0	0
12/3/2024 13:05	66504	SMAN_T2	2	1	-1	0.85	0.1	-0.75	0	0	0	0	0	0	0	0
12/3/2024 13:05	47401	PENS_T1	2	0	-2	0.25	0	-0.25	-0.95	-1	0	0	0	0	0	0
12/3/2024 13:05	66502	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
12/3/2024 13:05	47403	PENS_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
12/3/2024 13:06	47401	PENS_T1	2	0	-2	0.25	0	-0.25	-0.95	-1	0	0	0	0	0	0
12/3/2024 13:06	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 13:06	47403	PENS_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
12/3/2024 13:08	47401	PENS_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
12/3/2024 13:08	47403	PENS_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
12/3/2024 13:08	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 13:15	44802	EDAN_T2	0	0	0	0	0	0	-2.21	-2.25	0	0	0	0	0	0
12/3/2024 13:16	44801	EDAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/3/2024 13:16	44802	EDAN_T2	0	0	0	0	0	0	-2.21	-2.25	0	0	0	0	0	0
12/3/2024 13:19	64501	LAVI_T1	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
12/3/2024 13:21	21206	ECAR_T2	1	1	0	7.8	8.2	0.4	0	0	0	0	0	0	0	0
12/3/2024 13:21	21204	ECAR_T2	1	4	3	0	0.1	0.1	0.24	0.25	0	0	0	0	0	0
12/3/2024 13:22	13901	SEID_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/3/2024 13:22	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 13:22	13904	SEID_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 13:25	67402	WAKE_T2	0	0	0	0	0	0	0.88	0.89	0	0	0	0	0	0
12/3/2024 13:26	49803	UNIV_T1	1	1	0	5.4	5.6	0.2	-0.93	-0.91	0	0	0	0	0	0
12/3/2024 13:29	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/3/2024 13:30	53501	EVIL_T2	0	1	1	0	0.4	0.4	-1.22	-1.15	2	2	0	1200	1200	0
12/3/2024 13:30	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 13:31	53501	EVIL_T2	0	1	1	0	0.4	0.4	-2.43	-2.31	4	4	0	2400	2400	0
12/3/2024 13:31	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 13:32	40101	HUNT_T2	5	52	47	0.58	1.5	0.92	-1.54	-1.64	0	0	0	0	0	0
12/3/2024 13:32	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 13:32	53501	EVIL_T2	0	1	1	0	0.4	0.4	-1.22	-1.15	2	2	0	1200	1200	0
12/3/2024 13:34	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 13:34	53501	EVIL_T2	0	1	1	0	0.4	0.4	-1.22	-1.15	2	2	0	1200	1200	0
12/3/2024 13:38	60301	TWVA_T2	0	0	0	0	0	0	-3.6	-3.64	4	4	0	3600	3600	0
12/3/2024 13:45	67402	WAKE_T2	0	0	0	0	0	0	0.89	1.07	0	0	0	0	0	0
12/3/2024 13:47	54502	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/3/2024 13:47	54505	ENOL_T2	1	1	0	0.9	1	0.1	-1.26	-1.26	1	1	0	600	600	0
12/3/2024 13:48	63803	HEMP_T1	2	2	0	0.65	0.3	-0.35	0	0	0	0	0	0	0	0
12/3/2024 13:48	63804	HEMP_T1	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
12/3/2024 13:48	63802	HEMP_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
12/3/2024 13:54	40101	HUNT_T2	2	67	65	0.85	0.66	-0.19	-1.69	-1.11	0	0	0	0	0	0
12/3/2024 13:55	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 14:02	54505	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
12/3/2024 14:02	54502	ENOL_T2	1	1	0	0.4	0.2	-0.2	-2.07	-2	1	1	0	600	600	0
12/3/2024 14:02	45702	LIND_T2	1	1	0	1.4	1.1	-0.3	-0.56	-0.57	0	0	0	0	0	0
12/3/2024 14:04	54502	ENOL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
12/3/2024 14:04	54505	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
12/3/2024 14:04	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-0.93	1	1	0	600	600	0
12/3/2024 14:07	66703	STRA_T1	3	5	2	0.17	0.34	0.17	-0.88	-0.85	0	0	0	0	0	0
12/3/2024 14:09	66703	STRA_T1	3	5	2	0.17	0.34	0.17	-0.88	-0.85	0	0	0	0	0	0
12/3/2024 14:10	16102	BING_T2	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
12/3/2024 14:10	16103	BING_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/3/2024 14:10	66703	STRA_T1	3	5	2	0.17	0.34	0.17	0	0	0	0	0	0	0	0
12/3/2024 14:12	16103	BING_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/3/2024 14:12	16102	BING_T2	1	2	1	0.6	0.5	-0.1	-0.01	0	0	0	0	0	0	0
12/3/2024 14:14	11103	EGYP_T1	0	1	1	0	1.4	1.4	0.32	0.31	0	0	0	0	0	0
12/3/2024 14:15	44502	HAMI_T2	0	1	1	0	3.5	3.5	0	0	0	0	0	0	0	0
12/3/2024 14:15	44503	HAMI_T2	0	0	0	0	0	0	-2.06	-2.04	1	1	0	1200	1200	0
12/3/2024 14:16	65003	NEFF_T2	4	5	1	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
12/3/2024 14:17	65003	NEFF_T2	4	5	1	0.15	0.14	-0.01	-1.39	-1.54	2	2	0	1800	1800	0
12/3/2024 14:20	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
12/3/2024 14:24	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 14:27	57203	ROSS_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
12/3/2024 14:28	57205	ROSS_T1	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
12/3/2024 14:28	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 14:28	40101	HUNT_T2	67	52	-15	0.56	0.45	-0.11	-1.05	-1.04	0	0	0	0	0	0
12/3/2024 14:29	46802	HEPB_T1	1	1	0	1.6	1.8	0.2	-1.15	-1.16	0	0	0	0	0	0
12/3/2024 14:30	45501	DERR_T2	0	0	0	0	0	0	0.68	0.52	2	2	0	1800	1800	0
12/3/2024 14:30	40101	HUNT_T2	48	170	122	0.6	0.5	-0.1	-1.05	-1.04	0	0	0	0	0	0
12/3/2024 14:39	66703	STRA_T1	5	5	0	0.34	0.5	0.16	-0.8	-0.7	0	0	0	0	0	0
12/3/2024 14:41	42501	ALTA_T2	0	0	0	0	0	0	0	-0.03	1	1	0	600	600	0
12/3/2024 14:41	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/3/2024 14:42	26001	WDAM_T1	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
12/3/2024 14:42	26002	WDAM_T1	2	2	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
12/3/2024 14:45	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 14:45	40802	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/3/2024 14:45	40801	EXCH_T2	2	2	0	0.15	0.25	0.1	-0.39	-0.45	1	1	0	1200	1200	0
12/3/2024 14:45	44904	SCOT_T1	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
12/3/2024 14:45	44901	SCOT_T2	0	0	0	0	0	0	-0.16	-0.14	0	0	0	0	0	0
12/3/2024 14:46	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 14:46	46101	MACI_T2	0	0	0	0	0	0	0	-0.08	1	1	0	1200	1200	0
12/3/2024 14:53	54502	ENOL_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/3/2024 14:53	54505	ENOL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
12/3/2024 14:53	54503	ENOL_T2	0	0	0	0	0	0	-0.76	-0.38	1	1	0	600	600	0
12/3/2024 14:56	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0.46	0.46	0	0	0	0	0	0
12/3/2024 14:56	60301	TWVA_T2	0	0	0	0	0	0	-1.84	-1.79	2	2	0	1800	1800	0
12/3/2024 15:10	15201	SFAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 15:12	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 15:20	50501	MECH_T1	4	4	0	1	0.85	-0.15	-0.06	-0.22	0	0	0	0	0	0
12/3/2024 15:20	50502	MECH_T1	1	1	0	1.9	2.2	0.3	0	0	0	0	0	0	0	0
12/3/2024 15:54	41901	REED_T1	8	7	-1	0.35	0.26	-0.09	0	0	0	0	0	0	0	0
12/3/2024 15:54	41903	REED_T1	0	0	0	0	0	0	-0.2	-0.21	1	1	0	1200	1200	0
12/3/2024 16:03	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 16:03	21206	ECAR_T2	2	2	0	3.85	4	0.15	-0.14	-0.12	0	0	0	0	0	0
12/3/2024 16:18	50502	MECH_T1	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
12/3/2024 16:18	50501	MECH_T1	4	4	0	1.08	1	-0.08	-0.24	-0.29	0	0	0	0	0	0
12/3/2024 16:49	57403	SPAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/3/2024 16:49	57401	SPAN_T1	2	2	0	0.5	0.55	0.05	-0.71	-0.68	1	1	0	600	600	0
12/3/2024 18:06	25402	LAHA_T2	83	67	-16	0.86	0.79	-0.07	0.47	0.51	0	0	0	0	0	0
12/3/2024 18:16	22904	HARW_T1	8	11	3	1.4	0.4	-1	0	0	0	0	0	0	0	0
12/3/2024 18:16	22905	HARW_T1	93	101	8	1.24	0.99	-0.25	0	0	0	0	0	0	0	0
12/3/2024 18:16	22903	HARW_T1	51	35	-16	1.21	1.45	0.24	0.29	0.32	0	0	0	0	0	0
12/3/2024 18:16	22901	HARW_T1	10	23	13	0.84	1.3	0.46	0	0	0	0	0	0	0	0
12/3/2024 18:18	49804	UNIV_T1	0	0	0	0	0	0	0.59	0.51	0	0	0	0	0	0
12/3/2024 18:18	49803	UNIV_T1	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
12/3/2024 18:20	14801	TREI_T2	0	0	0	0	0	0	0.69	0.73	0	0	0	0	0	0
12/3/2024 18:21	24901	WHHA_T1	3	0	-3	0.27	0	-0.27	-0.61	-0.59	0	0	0	0	0	0
12/3/2024 18:21	46101	MACI_T2	0	0	0	0	0	0	-0.61	-0.6	1	1	0	1200	1200	0
12/3/2024 18:21	24902	WHHA_T1	15	16	1	0.71	0.77	0.06	0	0	0	0	0	0	0	0
12/3/2024 18:21	46203	DANV_T2	8	8	0	0.76	0.54	-0.22	-1.39	-1.4	0	0	0	0	0	0
12/3/2024 18:24	14801	TREI_T2	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
12/3/2024 18:24	14802	TREI_T2	0	0	0	0	0	0	0.71	0.61	0	0	0	0	0	0
12/3/2024 18:25	44801	EDAN_T2	1	2	1	0.9	0.3	-0.6	-0.34	-0.34	0	0	0	0	0	0
12/3/2024 18:26	14802	TREI_T2	0	0	0	0	0	0	0.71	0.61	0	0	0	0	0	0
12/3/2024 18:27	46203	DANV_T2	8	8	0	0.76	0.54	-0.22	0	0	0	0	0	0	0	0
12/3/2024 18:27	46206	DANV_T2	0	0	0	0	0	0	1.47	1.58	2	2	0	2100	2100	0
12/3/2024 18:30	46004	BERW_T2	0	11	11	0	0.91	0.91	0	0	0	0	0	0	0	0
12/3/2024 18:30	46002	BERW_T2	0	0	0	0	0	0	-1.01	-1.03	1	1	0	900	900	0
12/3/2024 18:31	44904	SCOT_T1	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
12/3/2024 18:31	44902	SCOT_T2	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
12/3/2024 18:31	17802	GILB_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
12/3/2024 18:31	44905	SCOT_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:32	11202	ELHE_T2	0	0	0	0	0	0	0.42	0.44	1	1	0	1200	1200	0
12/3/2024 18:33	22903	HARW_T1	33	34	1	1.44	1.75	0.31	0	0	0	0	0	0	0	0
12/3/2024 18:33	22901	HARW_T1	11	23	12	1.3	1.24	-0.06	0	0	0	0	0	0	0	0
12/3/2024 18:33	22905	HARW_T1	80	94	14	1.16	1.19	0.03	-0.27	-0.3	0	0	0	0	0	0
12/3/2024 18:33	24901	WHHA_T1	0	0	0	0	0	0	-0.61	-0.59	0	0	0	0	0	0
12/3/2024 18:33	22904	HARW_T1	8	10	2	0.71	0	-0.71	0	0	0	0	0	0	0	0
12/3/2024 18:33	24902	WHHA_T1	11	15	4	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
12/3/2024 18:34	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:34	15201	SFAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:35	49803	UNIV_T1	1	1	0	6.4	5.8	-0.6	-0.97	-0.95	0	0	0	0	0	0
12/3/2024 18:35	21204	ECAR_T2	9	13	4	0.43	2.13	1.7	0	0	0	0	0	0	0	0
12/3/2024 18:35	21202	ECAR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:35	21206	ECAR_T2	2	2	0	3.7	3.7	0	0.25	0.26	0	0	0	0	0	0
12/3/2024 18:36	24701	FLND_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/3/2024 18:36	24702	FLND_T2	0	0	0	0	0	0	-0.2	-0.05	1	1	0	1200	1200	0
12/3/2024 18:36	46206	DANV_T2	0	0	0	0	0	0	1.47	1.58	2	2	0	2100	2100	0
12/3/2024 18:36	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:36	61001	DONV_T1	0	0	0	0	0	0	-0.14	0	0	0	0	0	0	0
12/3/2024 18:36	46203	DANV_T2	7	1	-6	0.54	0	-0.54	0	0	0	0	0	0	0	0
12/3/2024 18:36	14201	EALL_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
12/3/2024 18:38	10801	CHHI_T1	0	0	0	0	0	0	-1.33	-1.35	2	2	0	1500	1500	0
12/3/2024 18:38	44801	EDAN_T2	1	8	7	0.7	0.14	-0.56	0	0	0	0	0	0	0	0
12/3/2024 18:38	45501	DERR_T2	1	4	3	0.5	0.3	-0.2	0.42	0.41	2	2	0	1800	1800	0
12/3/2024 18:38	26001	WDAM_T1	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
12/3/2024 18:38	20601	GRWO_T2	1	1	0	0.2	1.2	1	0	0	0	0	0	0	0	0
12/3/2024 18:38	11104	EGYP_T1	1	1	0	1.3	0.2	-1.1	0	0	0	0	0	0	0	0
12/3/2024 18:38	11103	EGYP_T1	0	0	0	0	0	0	0.4	0.47	0	0	0	0	0	0
12/3/2024 18:38	44802	EDAN_T2	0	0	0	0	0	0	-6.53	-6.53	0	0	0	0	0	0
12/3/2024 18:38	26002	WDAM_T1	0	4	4	0	0.17	0.17	0	0	0	0	0	0	0	0
12/3/2024 18:38	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:38	65004	NEFF_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
12/3/2024 18:38	16102	BING_T2	0	0	0	0	0	0	-0.06	0.01	0	0	0	0	0	0
12/3/2024 18:38	20603	GRWO_T2	0	10	10	0	0.1	0.1	0.47	0.51	0	0	0	0	0	0
12/3/2024 18:39	43301	WATS_T2	0	0	0	0	0	0	-0.01	-0.08	0	0	0	0	0	0
12/3/2024 18:39	44801	EDAN_T2	1	8	7	0.7	0.14	-0.56	-0.34	-0.33	0	0	0	0	0	0
12/3/2024 18:39	44802	EDAN_T2	0	0	0	0	0	0	-2.18	-2.18	0	0	0	0	0	0
12/3/2024 18:39	43304	WATS_T2	8	1	-7	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/3/2024 18:39	46203	DANV_T2	7	1	-6	0.54	0	-0.54	-0.48	-0.44	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/3/2024 18:40	46502	LOHA_T1	0	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0
12/3/2024 18:40	16102	BING_T2	0	0	0	0	0	0	-0.06	0.01	0	0	0	0	0	0
12/3/2024 18:40	16302	ALPA_T2	0	0	0	0	0	0	0.77	0.71	0	0	0	0	0	0
12/3/2024 18:40	66505	SMAN_T2	3	3	0	1.23	1.33	0.1	0	0	0	0	0	0	0	0
12/3/2024 18:40	64101	REFR_T1	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
12/3/2024 18:40	44802	EDAN_T2	0	0	0	0	0	0	-2.18	-2.18	0	0	0	0	0	0
12/3/2024 18:40	46506	LOHA_T1	3	4	1	1.57	1.6	0.03	0	0	0	0	0	0	0	0
12/3/2024 18:40	46501	LOHA_T1	1	2	1	0.3	0.5	0.2	-0.11	-0.06	1	1	0	1200	1200	0
12/3/2024 18:40	65001	NEFF_T2	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
12/3/2024 18:40	65206	PRIN_T4	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/3/2024 18:40	12501	MITR_T2	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
12/3/2024 18:40	66504	SMAN_T2	0	0	0	0	0	0	-0.69	-0.73	0	0	0	0	0	0
12/3/2024 18:40	44801	EDAN_T2	1	8	7	0.7	0.14	-0.56	-0.34	-0.33	0	0	0	0	0	0
12/3/2024 18:40	12502	MITR_T2	12	3	-9	7.49	6.5	-0.99	0	0	0	0	0	0	0	0
12/3/2024 18:40	65207	PRIN_T4	3	2	-1	2.77	2.75	-0.02	0	0	1	1	0	1200	1200	0
12/3/2024 18:40	47203	FAXO_T2	1	1	0	2	1.5	-0.5	-1	-1	0	0	0	0	0	0
12/3/2024 18:40	11301	EMMA_T1	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
12/3/2024 18:40	57401	SPAN_T1	1	2	1	0.1	0.4	0.3	-0.66	-0.65	1	1	0	600	600	0
12/3/2024 18:40	45501	DERR_T2	1	4	3	0.5	0.3	-0.2	0.42	0.41	2	2	0	1800	1800	0
12/3/2024 18:41	67002	STHI_T2	0	0	0	0	0	0	0.6	0.65	0	0	0	0	0	0
12/3/2024 18:41	22602	KIMB_T1	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
12/3/2024 18:41	51004	NHAR_T1	3	7	4	3.77	1.67	-2.1	-0.53	-0.5	0	0	0	0	0	0
12/3/2024 18:41	51006	NHAR_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
12/3/2024 18:41	40101	HUNT_T2	447	440	-7	1.45	0.84	-0.61	-1.65	-1.67	0	0	0	0	0	0
12/3/2024 18:41	51002	NHAR_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
12/3/2024 18:41	25801	SUTR_T2	7	5	-2	2.76	5.67	2.91	-0.51	-0.49	0	0	0	0	0	0
12/3/2024 18:41	61506	EPET_T2	0	0	0	0	0	0	-0.98	-1.01	1	1	0	900	900	0
12/3/2024 18:41	54601	SUMM_T2	0	1	1	0	0.1	0.1	0	0	2	2	0	2100	2100	0
12/3/2024 18:41	63501	HEID_TBK1-2	14	36	22	0.17	0.39	0.22	-0.4	-0.44	1	1	0	900	900	0
12/3/2024 18:41	67001	STHI_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
12/3/2024 18:41	51003	NHAR_T1	3	3	0	0.13	0.17	0.04	0	0	0	0	0	0	0	0
12/3/2024 18:42	14705	TREX_T1	1	0	-1	9.8	0	-9.8	-0.32	-0.29	0	0	0	0	0	0
12/3/2024 18:42	45701	LIND_T2	0	0	0	0	0	0	-1.63	-1.62	0	0	0	0	0	0
12/3/2024 18:42	14704	TREX_T1	1	1	0	7	7	0	0	0	0	0	0	0	0	0
12/3/2024 18:42	64902	MILL_T2	0	0	0	0	0	0	-0.36	-0.33	0	0	0	0	0	0
12/3/2024 18:42	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:42	26402	INOR_T1	0	1	1	0	0	0	83.96	83.96	0	0	0	0	0	0
12/3/2024 18:42	14204	EALL_T2	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
12/3/2024 18:42	45702	LIND_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
12/3/2024 18:42	44505	HAMI_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
12/3/2024 18:42	16302	ALPA_T2	0	0	0	0	0	0	0.77	0.71	0	0	0	0	0	0
12/3/2024 18:42	26401	INOR_T1	1	2	1	5.4	5.6	0.2	0	0	0	0	0	0	0	0
12/3/2024 18:42	44502	HAMI_T2	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
12/3/2024 18:43	40801	EXCH_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/3/2024 18:43	46206	DANV_T2	0	0	0	0	0	0	1.58	1.57	2	2	0	2100	2100	0
12/3/2024 18:43	60803	BUCK_T1	0	0	0	0	0	0	-0.45	-0.46	1	1	0	600	600	0
12/3/2024 18:43	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/3/2024 18:43	43801	SWIL_T1	2	5	3	3.15	1.38	-1.77	0	0	0	0	0	0	0	0
12/3/2024 18:43	44502	HAMI_T2	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
12/3/2024 18:43	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:43	44505	HAMI_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
12/3/2024 18:43	42501	ALTA_T2	0	0	0	0	0	0	0.03	0.01	1	1	0	600	600	0
12/3/2024 18:43	46203	DANV_T2	7	1	-6	0.54	0	-0.54	0	0	0	0	0	0	0	0
12/3/2024 18:43	40802	EXCH_T2	0	1	1	0	0.1	0.1	-0.9	-0.89	0	0	0	0	0	0
12/3/2024 18:43	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/3/2024 18:44	67002	STHI_T2	0	0	0	0	0	0	0.6	0.65	0	0	0	0	0	0
12/3/2024 18:44	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/3/2024 18:44	65802	RTWN_T2	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
12/3/2024 18:44	64502	LAVI_T1	6	76	70	0.12	0.15	0.03	0	0	0	0	0	0	0	0
12/3/2024 18:44	47403	PENS_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
12/3/2024 18:44	65601	QVIL_T2	0	0	0	0	0	0	-1.07	-1.03	1	1	0	900	900	0
12/3/2024 18:44	44502	HAMI_T2	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
12/3/2024 18:44	67001	STHI_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
12/3/2024 18:44	64503	LAVI_T1	9	29	20	0.12	0.19	0.07	0	0	0	0	0	0	0	0
12/3/2024 18:44	16302	ALPA_T2	0	0	0	0	0	0	1.54	1.42	0	0	0	0	0	0
12/3/2024 18:44	64501	LAVI_T1	8	46	38	0.1	0.17	0.07	-0.39	-0.36	0	0	0	0	0	0
12/3/2024 18:44	10801	CHHI_T1	0	0	0	0	0	0	-1.33	-1.35	2	2	0	1500	1500	0
12/3/2024 18:44	47401	PENS_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
12/3/2024 18:44	47402	PENS_T1	0	12	12	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:44	44503	HAMI_T2	0	0	0	0	0	0	-0.73	-0.71	0	0	0	0	0	0
12/3/2024 18:44	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:45	55002	NEWP_T1	3	3	0	0.77	1.2	0.43	-0.18	-0.19	0	0	0	0	0	0
12/3/2024 18:45	67002	STHI_T2	0	0	0	0	0	0	0.6	0.65	0	0	0	0	0	0
12/3/2024 18:45	54201	PENN_T1	6	7	1	0.72	0.84	0.12	0	0	0	0	0	0	0	0
12/3/2024 18:45	54203	PENN_T1	18	18	0	0.8	0.99	0.19	-0.03	0	0	0	0	0	0	0
12/3/2024 18:45	63501	HEID_TBK1-2	32	37	5	0.23	0.38	0.15	-0.4	-0.44	1	1	0	900	900	0
12/3/2024 18:45	63802	HEMP_T1	0	0	0	0	0	0	0.12	0.19	0	0	0	0	0	0
12/3/2024 18:45	22602	KIMB_T1	0	1	1	0	0.1	0.1	0.53	0.54	0	0	0	0	0	0
12/3/2024 18:45	63804	HEMP_T1	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
12/3/2024 18:45	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
12/3/2024 18:46	40702	FFLD_T1	80	95	15	0.23	0.27	0.04	0	0	0	0	0	0	0	0
12/3/2024 18:46	23404	HONE_T1	1	14	13	0.1	0.11	0.01	0	0	0	0	0	0	0	0
12/3/2024 18:46	57401	SPAN_T1	2	2	0	0.4	0.45	0.05	-1.32	-1.31	2	2	0	1200	1200	0
12/3/2024 18:46	60801	BUCK_T1	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
12/3/2024 18:46	67002	STHI_T2	0	0	0	0	0	0	1.21	1.29	0	0	0	0	0	0
12/3/2024 18:46	16005	DORN_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
12/3/2024 18:46	23403	HONE_T1	11	31	20	0.14	0.13	-0.01	-0.7	-0.68	0	0	0	0	0	0
12/3/2024 18:46	16004	DORN_T1	0	0	0	0	0	0	-1.21	-1.23	1	1	0	1200	1200	0
12/3/2024 18:46	40701	FFLD_T1	33	33	0	0.64	0.66	0.02	0	0	0	0	0	0	0	0
12/3/2024 18:46	54506	ENOL_T2	0	0	0	0	0	0	0.64	0.43	1	1	0	600	600	0
12/3/2024 18:46	57203	ROSS_T1	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
12/3/2024 18:46	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:46	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
12/3/2024 18:46	40703	FFLD_T1	4	4	0	0.48	0.6	0.12	0	0	0	0	0	0	0	0
12/3/2024 18:46	54201	PENN_T1	6	7	1	0.72	0.84	0.12	-0.05	-0.05	0	0	0	0	0	0
12/3/2024 18:46	46203	DANV_T2	1	0	-1	0.4	0	-0.4	-0.48	-0.44	0	0	0	0	0	0
12/3/2024 18:46	40101	HUNT_T2	440	430	-10	1.2	0.84	-0.36	-1.65	-1.67	0	0	0	0	0	0
12/3/2024 18:46	54203	PENN_T1	18	18	0	0.8	0.99	0.19	0	0	0	0	0	0	0	0
12/3/2024 18:46	63601	LETO_T1	0	0	0	0	0	0	1.26	1.32	1	1	0	900	900	0
12/3/2024 18:47	65206	PRIN_T4	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/3/2024 18:47	65702	RVIL_T2	0	0	0	0	0	0	-0.61	-0.64	0	0	0	0	0	0
12/3/2024 18:47	40802	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/3/2024 18:47	58001	WCAR_T1	4	4	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
12/3/2024 18:47	47403	PENS_T1	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
12/3/2024 18:47	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/3/2024 18:47	66703	STRA_T1	0	3	3	0	0.2	0.2	-0.92	-0.92	0	0	0	0	0	0
12/3/2024 18:47	44905	SCOT_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:47	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
12/3/2024 18:47	53501	EVIL_T2	2	2	0	0.2	0.2	0	-3	-2.77	4	4	0	2400	2400	0
12/3/2024 18:47	66701	STRA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/3/2024 18:47	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:47	40702	FFLD_T1	80	95	15	0.23	0.27	0.04	0	0	0	0	0	0	0	0
12/3/2024 18:47	40801	EXCH_T2	2	3	1	0.15	0.1	-0.05	-0.46	-0.43	1	1	0	1200	1200	0
12/3/2024 18:47	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:47	42903	MIDD_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:47	47402	PENS_T1	4	8	4	0.35	0	-0.35	0	0	0	0	0	0	0	0
12/3/2024 18:47	65207	PRIN_T4	2	4	2	2.7	1.95	-0.75	0	0	0	0	0	0	0	0
12/3/2024 18:47	40703	FFLD_T1	4	4	0	0.48	0.6	0.12	0	0	0	0	0	0	0	0
12/3/2024 18:47	58202	NEWV_T1	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
12/3/2024 18:47	40701	FFLD_T1	33	33	0	0.64	0.66	0.02	0	0	0	0	0	0	0	0
12/3/2024 18:47	58003	WCAR_T1	1	1	0	0.5	0.7	0.2	0.55	0.57	0	0	0	0	0	0
12/3/2024 18:47	64101	REFR_T1	0	1	1	0	0	0	-0.01	0.02	0	0	0	0	0	0
12/3/2024 18:47	47401	PENS_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
12/3/2024 18:47	65205	PRIN_T1	1	2	1	1.2	1.2	0	0	0	0	0	0	0	0	0
12/3/2024 18:47	64305	LINC_T1	0	0	0	0	0	0	-0.83	-0.85	0	0	0	0	0	0
12/3/2024 18:47	42902	MIDD_T2	1	8	7	1.1	0.85	-0.25	-0.39	-0.47	0	0	0	0	0	0
12/3/2024 18:48	40801	EXCH_T2	2	3	1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
12/3/2024 18:48	58001	WCAR_T1	4	4	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
12/3/2024 18:48	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:48	40802	EXCH_T2	0	1	1	0	0.1	0.1	-0.9	-0.89	0	0	0	0	0	0
12/3/2024 18:48	63501	HEID_TBK1-2	32	37	5	0.23	0.38	0.15	-0.4	-0.44	1	1	0	900	900	0
12/3/2024 18:48	13704	SCHN_T2	0	0	0	0	0	0	-0.14	-0.26	0	0	0	0	0	0
12/3/2024 18:48	54601	SUMM_T2	0	1	1	0	0.1	0.1	0	0	2	2	0	2100	2100	0
12/3/2024 18:48	66703	STRA_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
12/3/2024 18:48	64101	REFR_T1	0	1	1	0	0	0	-0.01	0.02	0	0	0	0	0	0
12/3/2024 18:48	58003	WCAR_T1	1	1	0	0.5	0.7	0.2	0.55	0.57	0	0	0	0	0	0
12/3/2024 18:48	54203	PENN_T1	18	18	0	0.8	0.99	0.19	-0.03	0	0	0	0	0	0	0
12/3/2024 18:48	66701	STRA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/3/2024 18:48	54201	PENN_T1	6	7	1	0.72	0.84	0.12	-0.05	-0.05	0	0	0	0	0	0
12/3/2024 18:48	55101	WERT_T1	0	0	0	0	0	0	-1.49	-1.54	1	1	0	600	600	0
12/3/2024 18:48	63601	LETO_T1	0	0	0	0	0	0	1.26	1.32	1	1	0	900	900	0
12/3/2024 18:48	11301	EMMA_T1	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
12/3/2024 18:48	60301	TWVA_T2	0	3	3	0	0.2	0.2	-5.64	-5.59	6	6	0	5400	5400	0
12/3/2024 18:49	57401	SPAN_T1	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
12/3/2024 18:49	54601	SUMM_T2	0	1	1	0	0.1	0.1	0	0	2	2	0	2100	2100	0
12/3/2024 18:49	66505	SMAN_T2	3	3	0	1.33	1	-0.33	0	0	0	0	0	0	0	0
12/3/2024 18:49	66504	SMAN_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
12/3/2024 18:49	57201	ROSS_T1	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
12/3/2024 18:49	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:49	57403	SPAN_T1	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
12/3/2024 18:49	65503	MOJO_T2	0	0	0	0	0	0	-0.35	-0.32	0	0	0	0	0	0
12/3/2024 18:49	52503	PROG_T2	0	0	0	0	0	0	0.92	0.87	0	0	0	0	0	0
12/3/2024 18:50	47203	FAXO_T2	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
12/3/2024 18:50	47402	PENS_T1	4	8	4	0.35	0	-0.35	0	0	0	0	0	0	0	0
12/3/2024 18:50	47403	PENS_T1	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
12/3/2024 18:50	60502	NMAN_T2	0	0	0	0	0	0	-0.35	-0.3	0	0	0	0	0	0
12/3/2024 18:50	44502	HAMI_T2	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
12/3/2024 18:50	61001	DONV_T1	0	0	0	0	0	0	-0.07	0	0	0	0	0	0	0
12/3/2024 18:50	57401	SPAN_T1	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
12/3/2024 18:50	67402	WAKE_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
12/3/2024 18:50	47201	FAXO_T2	0	0	0	0	0	0	-2.19	-2.18	1	1	0	1200	1200	0
12/3/2024 18:50	47401	PENS_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
12/3/2024 18:50	44505	HAMI_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/3/2024 18:50	64802	MONE_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
12/3/2024 18:50	63804	HEMP_T1	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
12/3/2024 18:50	57403	SPAN_T1	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
12/3/2024 18:50	63803	HEMP_T1	0	0	0	0	0	0	0.61	0.67	0	0	0	0	0	0
12/3/2024 18:50	57203	ROSS_T1	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
12/3/2024 18:50	45802	HEGI_T2	34	46	12	0.8	1.35	0.55	0	0	0	0	0	0	0	0
12/3/2024 18:51	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:51	66703	STRA_T1	0	3	3	0	0.2	0.2	-0.92	-0.92	0	0	0	0	0	0
12/3/2024 18:51	46502	LOHA_T1	2	2	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
12/3/2024 18:51	44502	HAMI_T2	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
12/3/2024 18:51	46506	LOHA_T1	3	4	1	2.1	1.58	-0.52	0	0	0	0	0	0	0	0
12/3/2024 18:51	66701	STRA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/3/2024 18:51	64904	MILL_T1	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
12/3/2024 18:51	60201	ATGL_T2	0	0	0	0	0	0	-0.04	-0.11	0	0	0	0	0	0
12/3/2024 18:51	53501	EVIL_T2	2	2	0	0.2	0.2	0	-1.5	-1.38	2	2	0	1200	1200	0
12/3/2024 18:51	44905	SCOT_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:51	43801	SWIL_T1	5	6	1	1.34	1.15	-0.19	0	0	0	0	0	0	0	0
12/3/2024 18:51	53901	HALI_T2	2	2	0	0.3	0.4	0.1	-1.31	-1.35	0	0	0	0	0	0
12/3/2024 18:51	46501	LOHA_T1	1	2	1	0.9	0.15	-0.75	0	0	0	0	0	0	0	0
12/3/2024 18:51	57401	SPAN_T1	2	2	0	0.4	0.45	0.05	-0.66	-0.65	1	1	0	600	600	0
12/3/2024 18:51	43802	SWIL_T1	0	0	0	0	0	0	-0.1	-0.08	1	1	0	600	600	0
12/3/2024 18:51	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
12/3/2024 18:51	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:51	44505	HAMI_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
12/3/2024 18:51	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
12/3/2024 18:51	60803	BUCK_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	600	600	0
12/3/2024 18:51	64101	REFR_T1	0	1	1	0	0	0	0.02	0.02	0	0	0	0	0	0
12/3/2024 18:51	53903	HALI_T2	2	2	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
12/3/2024 18:51	54501	ENOL_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	600	600	0
12/3/2024 18:51	57201	ROSS_T1	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
12/3/2024 18:52	47402	PENS_T1	4	8	4	0.35	0	-0.35	0	0	0	0	0	0	0	0
12/3/2024 18:52	54502	ENOL_T2	0	0	0	0	0	0	-1.92	-1.87	1	1	0	600	600	0
12/3/2024 18:52	47403	PENS_T1	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
12/3/2024 18:52	57403	SPAN_T1	0	0	0	0	0	0	0.23	0.18	0	0	0	0	0	0
12/3/2024 18:52	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:52	57401	SPAN_T1	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
12/3/2024 18:52	60701	BREC_T1	0	0	0	0	0	0	-0.38	-0.38	1	1	0	600	600	0
12/3/2024 18:52	47401	PENS_T1	0	0	0	0	0	0	0.16	0.25	0	0	0	0	0	0
12/3/2024 18:52	58003	WCAR_T1	1	1	0	0.5	0.7	0.2	0.57	0.56	0	0	0	0	0	0
12/3/2024 18:52	66505	SMAN_T2	3	3	0	1.33	1	-0.33	0	0	0	0	0	0	0	0
12/3/2024 18:52	44901	SCOT_T2	0	0	0	0	0	0	-0.1	-0.15	0	0	0	0	0	0
12/3/2024 18:52	58001	WCAR_T1	4	4	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
12/3/2024 18:52	45702	LIND_T2	1	1	0	0.8	1	0.2	-0.54	-0.53	0	0	0	0	0	0
12/3/2024 18:52	60803	BUCK_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	600	600	0
12/3/2024 18:52	65802	RTWN_T2	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
12/3/2024 18:53	59101	WALK_T2	1	1	0	3.2	0	-3.2	1.03	1.02	1	1	0	600	600	0
12/3/2024 18:53	21502	CEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:53	44905	SCOT_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:53	60701	BREC_T1	0	0	0	0	0	0	-1.13	-1.14	3	3	0	1800	1800	0
12/3/2024 18:53	21501	CEAV_T2	0	0	0	0	0	0	1.07	1.08	0	0	0	0	0	0
12/3/2024 18:53	46502	LOHA_T1	2	2	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
12/3/2024 18:53	64101	REFR_T1	0	1	1	0	0	0	0.02	0.02	0	0	0	0	0	0
12/3/2024 18:53	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
12/3/2024 18:53	46501	LOHA_T1	1	2	1	0.9	0.15	-0.75	0	0	0	0	0	0	0	0
12/3/2024 18:53	67402	WAKE_T2	0	0	0	0	0	0	0.3	-0.33	0	1	1	0	600	600
12/3/2024 18:53	58003	WCAR_T1	1	1	0	0.5	0.7	0.2	0.57	0.56	0	0	0	0	0	0
12/3/2024 18:53	54601	SUMM_T2	0	1	1	0	0.1	0.1	0	0	2	2	0	2100	2100	0
12/3/2024 18:53	46506	LOHA_T1	3	4	1	2.1	1.58	-0.52	0	0	0	0	0	0	0	0
12/3/2024 18:53	54206	PENN_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
12/3/2024 18:53	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:53	63501	HEID_TBK1-2	32	37	5	0.23	0.38	0.15	-0.44	-0.46	1	1	0	900	900	0
12/3/2024 18:53	67702	WERN_T2	2	1	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/3/2024 18:53	58001	WCAR_T1	4	4	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
12/3/2024 18:54	60803	BUCK_T1	0	0	0	0	0	0	-0.92	-0.92	2	2	0	1200	1200	0
12/3/2024 18:54	53102	WTWN_T1	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
12/3/2024 18:54	53101	WTWN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/3/2024 18:54	53903	HALI_T2	2	2	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
12/3/2024 18:54	53901	HALI_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/3/2024 18:54	54501	ENOL_T2	0	0	0	0	0	0	-0.49	-0.48	1	1	0	600	600	0
12/3/2024 18:54	54601	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/3/2024 18:54	42903	MIDD_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:54	42902	MIDD_T2	1	8	7	1.1	0.85	-0.25	-0.47	-0.43	0	0	0	0	0	0
12/3/2024 18:54	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
12/3/2024 18:54	59101	WALK_T2	1	1	0	3.2	0	-3.2	2.06	2.03	2	2	0	1200	1200	0
12/3/2024 18:55	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
12/3/2024 18:55	66703	STRA_T1	0	3	3	0	0.2	0.2	-0.92	-0.92	0	0	0	0	0	0
12/3/2024 18:55	67602	WARW_T2	0	0	0	0	0	0	0.31	0.28	1	1	0	300	300	0
12/3/2024 18:55	65003	NEFF_T2	0	0	0	0	0	0	-1.51	-1.51	2	2	0	1800	1800	0
12/3/2024 18:55	67702	WERN_T2	2	1	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/3/2024 18:55	64101	REFR_T1	0	1	1	0	0	0	0.02	0.02	0	0	0	0	0	0
12/3/2024 18:55	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:55	67002	STHI_T2	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
12/3/2024 18:55	53101	WTWN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/3/2024 18:55	53102	WTWN_T1	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
12/3/2024 18:55	57401	SPAN_T1	2	2	0	0.4	0.45	0.05	-1.31	-1.3	2	2	0	1200	1200	0
12/3/2024 18:55	66701	STRA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/3/2024 18:55	65002	NEFF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:55	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:56	40101	HUNT_T2	440	430	-10	1.2	0.84	-0.36	-1.67	-1.63	0	0	0	0	0	0
12/3/2024 18:56	64101	REFR_T1	0	1	1	0	0	0	0.04	0.04	0	0	0	0	0	0
12/3/2024 18:56	57206	ROSS_T1	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
12/3/2024 18:56	53501	EVIL_T2	2	2	0	0.2	0.2	0	-1.38	-1.46	2	2	0	1200	1200	0
12/3/2024 18:56	52502	PROG_T2	0	0	0	0	0	0	-0.44	0.54	1	0	-1	900	0	-900
12/3/2024 18:56	67203	TEHI_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
12/3/2024 18:56	67201	TEHI_T1	0	0	0	0	0	0	-0.31	-0.3	1	1	0	900	900	0
12/3/2024 18:56	44502	HAMI_T2	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
12/3/2024 18:56	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:57	47403	PENS_T1	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
12/3/2024 18:57	55002	NEWP_T1	3	3	0	0.77	1.2	0.43	-0.19	-0.19	0	0	0	0	0	0
12/3/2024 18:57	58202	NEWV_T1	0	0	0	0	0	0	0.18	0.23	0	0	0	0	0	0
12/3/2024 18:57	64204	KINZ_T1	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
12/3/2024 18:57	63501	HEID_TBK1-2	32	37	5	0.23	0.38	0.15	-0.44	-0.46	1	1	0	900	900	0
12/3/2024 18:57	64203	KINZ_T1	0	2	2	0	0	0	-0.32	-0.29	1	1	0	600	600	0
12/3/2024 18:57	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:57	52204	DEVO_T2	4	4	0	1.35	1	-0.35	0	0	0	0	0	0	0	0
12/3/2024 18:57	47401	PENS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:57	56501	ROCK_T2	1	1	0	0.1	0.6	0.5	-0.98	-1	0	0	0	0	0	0
12/3/2024 18:57	52202	DEVO_T2	0	1	1	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/3/2024 18:57	57403	SPAN_T1	0	0	0	0	0	0	0.23	0.18	0	0	0	0	0	0
12/3/2024 18:57	64101	REFR_T1	0	1	1	0	0	0	0.02	0.02	0	0	0	0	0	0
12/3/2024 18:57	57401	SPAN_T1	2	2	0	0.4	0.45	0.05	-0.65	-0.65	1	1	0	600	600	0
12/3/2024 18:57	47402	PENS_T1	4	8	4	0.35	0	-0.35	0	0	0	0	0	0	0	0
12/3/2024 18:58	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:58	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:58	57401	SPAN_T1	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
12/3/2024 18:58	65502	MOJO_T2	0	0	0	0	0	0	-1	-0.98	0	0	0	0	0	0
12/3/2024 18:58	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:58	53501	EVIL_T2	2	2	0	0.2	0.2	0	-1.38	-1.46	2	2	0	1200	1200	0
12/3/2024 18:58	57403	SPAN_T1	0	0	0	0	0	0	0.23	0.18	0	0	0	0	0	0
12/3/2024 18:58	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:58	44905	SCOT_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 18:59	57401	SPAN_T1	2	2	0	0.4	0.45	0.05	-0.65	-0.65	1	1	0	600	600	0
12/3/2024 18:59	53501	EVIL_T2	2	2	0	0.2	0.2	0	-1.38	-1.46	2	2	0	1200	1200	0
12/3/2024 18:59	46802	HEPB_T1	1	1	0	0.4	0.3	-0.1	-1.01	-1.02	0	0	0	0	0	0
12/3/2024 18:59	54601	SUMM_T2	0	1	1	0	0.1	0.1	0	0	2	2	0	2100	2100	0
12/3/2024 19:00	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 19:00	55001	NEWP_T1	0	0	0	0	0	0	-0.12	-0.18	0	0	0	0	0	0
12/3/2024 19:00	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 19:00	52403	GRPA_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/3/2024 19:00	55002	NEWP_T1	3	3	0	0.97	1.2	0.23	0	0	0	0	0	0	0	0
12/3/2024 19:00	52402	GRPA_T2	4	7	3	0.48	0.78	0.3	0	0	0	0	0	0	0	0
12/3/2024 19:00	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/3/2024 19:01	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 19:01	43304	WATS_T2	1	7	6	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/3/2024 19:02	67402	WAKE_T2	0	0	0	0	0	0	0.3	-0.33	0	1	1	0	600	600
12/3/2024 19:03	54504	ENOL_T2	0	0	0	0	0	0	-0.99	-1.01	1	1	0	600	600	0
12/3/2024 19:04	59101	WALK_T2	1	0	-1	0.9	0	-0.9	1.03	1.02	1	1	0	600	600	0
12/3/2024 19:05	52502	PROG_T2	0	0	0	0	0	0	-0.44	0.54	1	0	-1	900	0	-900
12/3/2024 19:05	53902	HALI_T2	1	1	0	5.8	5.7	-0.1	-0.74	-0.77	0	0	0	0	0	0
12/3/2024 19:05	53903	HALI_T2	2	2	0	1.5	1.4	-0.1	-0.06	-0.07	0	0	0	0	0	0
12/3/2024 19:05	53901	HALI_T2	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
12/3/2024 19:09	64904	MILL_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
12/3/2024 19:12	40101	HUNT_T2	369	442	73	0.84	1.27	0.43	-1.63	-1.61	0	0	0	0	0	0
12/3/2024 19:34	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/3/2024 19:34	57401	SPAN_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/3/2024 19:51	64101	REFR_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
12/3/2024 19:57	54601	SUMM_T2	0	1	1	0	0.1	0.1	0	0	2	2	0	2100	2100	0
12/3/2024 20:13	60701	BREC_T1	0	10	10	0	0.1	0.1	-0.41	-0.42	1	1	0	600	600	0
12/3/2024 21:02	57401	SPAN_T1	2	2	0	0.4	0.7	0.3	-0.63	-0.68	1	1	0	600	600	0
12/3/2024 21:11	44802	EDAN_T2	0	0	0	0	0	0	-0.88	-0.86	0	0	0	0	0	0
12/3/2024 21:11	44801	EDAN_T2	2	1	-1	0.5	0.9	0.4	0	0	0	0	0	0	0	0
12/4/2024 0:15	54505	ENOL_T2	0	0	0	0	0	0	-1.15	-1.15	1	1	0	600	600	0
12/4/2024 3:03	43801	SWIL_T1	2	2	0	3	3	0	0	0	0	0	0	0	0	0
12/4/2024 3:03	43802	SWIL_T1	0	0	0	0	0	0	-0.26	-0.2	1	1	0	600	600	0
12/4/2024 3:41	64101	REFR_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
12/4/2024 8:58	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 8:58	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 9:00	67001	STHI_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
12/4/2024 9:00	54201	PENN_T1	10	10	0	1.07	0.47	-0.6	-0.84	1.73	0	0	0	0	0	0
12/4/2024 9:00	53102	WTWN_T1	0	0	0	0	0	0	-2.2	-2.22	0	0	0	0	0	0
12/4/2024 9:00	52502	PROG_T2	0	0	0	0	0	0	1.37	1.33	0	0	0	0	0	0
12/4/2024 9:00	21206	ECAR_T2	1	2	1	0.5	3.85	3.35	0.52	0.55	0	0	0	0	0	0
12/4/2024 9:00	51003	NHAR_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/4/2024 9:00	21202	ECAR_T2	1	7	6	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
12/4/2024 9:00	43801	SWIL_T1	0	6	6	0	0.87	0.87	0	0	0	0	0	0	0	0
12/4/2024 9:00	26402	INOR_T1	0	0	0	0	0	0	83.96	83.96	1	1	0	600	600	0
12/4/2024 9:00	60201	ATGL_T2	0	0	0	0	0	0	0.01	0.04	1	1	0	300	300	0
12/4/2024 9:00	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 9:00	61001	BONV_T1	0	0	0	0	0	0	-0.58	-0.52	0	0	0	0	0	0
12/4/2024 9:00	42501	ALTA_T2	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
12/4/2024 9:00	43301	WATS_T2	0	0	0	0	0	0	-0.35	-0.42	0	0	0	0	0	0
12/4/2024 9:00	51004	NHAR_T1	2	2	0	5.7	5.55	-0.15	-0.49	-0.54	0	0	0	0	0	0
12/4/2024 9:00	65503	MOJO_T2	0	1	1	0	0	0	-0.92	-1.05	1	1	0	900	900	0
12/4/2024 9:00	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 9:00	54501	ENOL_T2	0	0	0	0	0	0	-1	-1	2	2	0	1200	1200	0
12/4/2024 9:00	64901	MILL_T1	3	9	6	0.1	0.11	0.01	0	0	0	0	0	0	0	0
12/4/2024 9:00	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	-2.07	-2.14	2	2	0	1200	1200	0
12/4/2024 9:00	22903	HARW_T1	3	3	0	0.7	1.55	0.85	0.27	0.31	0	0	0	0	0	0
12/4/2024 9:00	58003	WCAR_T1	1	1	0	1	0.9	-0.1	2.91	2.95	4	4	0	2400	2400	0
12/4/2024 9:00	54504	ENOL_T2	0	0	0	0	0	0	-0.93	-0.98	1	1	0	600	600	0
12/4/2024 9:00	64904	MILL_T1	0	0	0	0	0	0	-0.28	-0.25	0	0	0	0	0	0
12/4/2024 9:00	64904	MILL_T1	0	0	0	0	0	0	-0.28	-0.25	0	0	0	0	0	0
12/4/2024 9:00	64904	MILL_T1	0	0	0	0	0	0	-0.28	-0.25	0	0	0	0	0	0
12/4/2024 9:00	64904	MILL_T1	0	0	0	0	0	0	-0.28	-0.25	0	0	0	0	0	0
12/4/2024 9:00	60301	TWVA_T2	0	0	0	0	0	0	-8.9	-8.88	6	6	0	5400	5400	0
12/4/2024 9:00	64801	EDAN_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
12/4/2024 9:00	40801	EXCH_T2	0	2	2	0	0.15	0.15	-0.93	-0.91	2	2	0	2400	2400	0
12/4/2024 9:00	65206	PRIN_T4	0	2	2	0	3.1	3.1	0	0	0	0	0	0	0	0
12/4/2024 9:00	45702	LIND_T2	0	1	1	0	0.9	0.9	-1.07	-1.04	0	0	0	0	0	0
12/4/2024 9:00	67002	STHI_T2	0	0	0	0	0	0	4.16	4.1	0	0	0	0	0	0
12/4/2024 9:00	43304	WATS_T2	0	0	0	0	0	0	0	0	0	4	4	0	2400	2400
12/4/2024 9:00	55101	WERT_T1	0	0	0	0	0	0	-1.07	-1.1	1	1	0	600	600	0
12/4/2024 9:00	65207	PRIN_T4	3	4	1	2.67	1.6	-1.07	0	0	1	1	0	1200	1200	0
12/4/2024 9:00	52401	GRPA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/4/2024 9:00	46506	LOHA_T1	0	3	3	0	3.37	3.37	0	0	0	0	0	0	0	0
12/4/2024 9:00	55001	NEWP_T1	0	0	0	0	0	0	-0.78	-0.78	1	1	0	600	600	0
12/4/2024 9:00	52204	DEVO_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/4/2024 9:00	52402	GRPA_T2	5	7	2	0.52	0.52	0	0	0	0	0	0	0	0	0
12/4/2024 9:00	45501	DERR_T2	0	2	2	0	0.25	0.25	2.74	2.9	6	6	0	5400	5400	0
12/4/2024 9:00	53902	HALI_T2	1	1	0	6	6.2	0.2	0	0	0	0	0	0	0	0
12/4/2024 9:00	53903	HALI_T2	2	2	0	1.05	1.6	0.55	-0.14	-0.14	0	0	0	0	0	0
12/4/2024 9:00	58202	NEWV_T1	0	0	0	0	0	0	0.29	0.39	0	0	0	0	0	0
12/4/2024 9:00	43802	SWIL_T1	0	0	0	0	0	0	-0.13	-0.14	1	1	0	600	600	0
12/4/2024 9:00	64101	REFR_T1	0	0	0	0	0	0	0.56	0.45	0	0	0	0	0	0
12/4/2024 9:00	63501	HEID_TBK1-2	0	0	0	0	0	0	0.7	1.17	5	5	0	4500	4500	0
12/4/2024 9:00	55002	NEWP_T1	7	6	-1	1.24	0.78	-0.46	-0.31	-0.33	0	0	0	0	0	0
12/4/2024 9:00	54502	ENOL_T2	0	2	2	0	0.2	0.2	-1.98	-2.02	1	1	0	600	600	0
12/4/2024 9:00	22905	HARW_T1	2	7	5	1.2	0	-1.2	-0.34	-0.35	0	0	0	0	0	0
12/4/2024 9:00	17802	GILB_T1	0	1	1	0	0.1	0.1	0.14	0.1	0	0	0	0	0	0
12/4/2024 9:00	53101	WTWN_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
12/4/2024 9:00	50501	MECH_T1	4	3	-1	0.38	0.2	-0.18	-0.09	-0.01	0	0	0	0	0	0
12/4/2024 9:00	40701	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 9:00	64305	LINC_T1	0	1	1	0	0	0	-0.41	-0.54	0	0	0	0	0	0
12/4/2024 9:00	60502	NMAN_T2	0	0	0	0	0	0	-0.02	0.02	0	0	0	0	0	0
12/4/2024 9:00	47201	FAXO_T2	0	0	0	0	0	0	-2.15	-2.15	1	1	0	1200	1200	0
12/4/2024 9:00	44802	EDAN_T2	0	0	0	0	0	0	-12.54	-12.36	0	0	0	0	0	0
12/4/2024 9:00	52503	PROG_T2	0	0	0	0	0	0	1.2	1.24	0	0	0	0	0	0
12/4/2024 9:00	65601	QVIL_T2	0	0	0	0	0	0	-0.9	-0.86	1	1	0	900	900	0
12/4/2024 9:00	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 9:00	57403	SPAN_T1	1	7	6	0.3	0.26	-0.04	1.35	1.25	0	0	0	0	0	0
12/4/2024 9:00	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/4/2024 9:00	57205	ROSS_T1	0	0	0	0	0	0	0.49	0.4	0	0	0	0	0	0
12/4/2024 9:00	24901	WHHA_T1	0	0	0	0	0	0	-1.23	-1.29	0	0	0	0	0	0
12/4/2024 9:00	60801	BUCK_T1	0	0	0	0	0	0	0.17	-0.02	0	0	0	0	0	0
12/4/2024 9:00	57203	ROSS_T1	0	0	0	0	0	0	1.23	1.23	0	0	0	0	0	0
12/4/2024 9:00	67402	WAKE_T2	0	0	0	0	0	0	1.48	1.42	3	3	0	1800	1800	0
12/4/2024 9:00	56501	ROCK_T2	66	110	44	0.24	0.22	-0.02	-1.63	-1.65	0	0	0	0	0	0
12/4/2024 9:00	65702	RVIL_T2	0	5	5	0	0	0	-1	-1	1	1	0	600	600	0
12/4/2024 9:00	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
12/4/2024 9:00	67602	WARW_T2	0	0	0	0	0	0	-0.26	-0.28	2	2	0	1500	1500	0
12/4/2024 9:00	40101	HUNT_T2	226	272	46	0.62	0.48	-0.14	-6.57	-6.47	0	0	0	0	0	0
12/4/2024 9:00	57201	ROSS_T1	0	0	0	0	0	0	-1.22	-1.15	0	0	0	0	0	0
12/4/2024 9:00	54203	PENN_T1	18	18	0	1.04	0.81	-0.23	1.49	1.48	0	0	0	0	0	0
12/4/2024 9:00	44502	HAMI_T2	0	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0
12/4/2024 9:00	45802	HEGI_T2	45	46	1	1.1	1.24	0.14	0	0	0	0	0	0	0	0
12/4/2024 9:00	47403	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/4/2024 9:00	67702	WERN_T2	2	2	0	0.15	1.2	1.05	0	0	0	0	0	0	0	0
12/4/2024 9:00	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 9:00	45502	DERR_T2	0	12	12	0	0.48	0.48	0	0	0	0	0	0	0	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.37	1	1	0	900	900	0
12/4/2024 9:00	44901	SCOT_T2	0	0	0	0	0	0	0.19	0.03	0	0	0	0	0	0
12/4/2024 9:00	46501	LOHA_T1	0	0	0	0	0	0	0.07	0.08	1	1	0	1200	1200	0
12/4/2024 9:00	44503	HAMI_T2	0	0	0	0	0	0	-0.76	-0.65	0	0	0	0	0	0
12/4/2024 9:00	20601	GRWO_T2	17	21	4	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
12/4/2024 9:00	60803	BUCK_T1	0	0	0	0	0	0	-2.14	-2.09	5	5	0	3000	3000	0
12/4/2024 9:00	50502	MECH_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
12/4/2024 9:00	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	6	6	0	5400	5400	0
12/4/2024 9:00	64802	MONE_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
12/4/2024 9:00	42902	MIDD_T2	0	0	0	0	0	0	-1.22	-1.38	2	2	0	1200	1200	0
12/4/2024 9:00	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 9:00	49803	UNIV_T1	0	1	1	0	6	6	-0.85	-0.84	0	0	0	0	0	0
12/4/2024 9:00	22906	HARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 9:00	41903	REED_T1	4	0	-4	0.68	0	-0.68	0.05	0.08	1	1	0	1200	1200	0
12/4/2024 9:00	58001	WCAR_T1	3	4	1	0.5	0.93	0.43	0	0	0	0	0	0	0	0
12/4/2024 9:00	65003	NEFF_T2	0	0	0	0	0	0	-1.18	-1.21	2	2	0	1800	1800	0
12/4/2024 9:00	54506	ENOL_T2	0	0	0	0	0	0	0.29	0.36	1	0	-1	600	0	-600
12/4/2024 9:00	64902	MILL_T2	0	0	0	0	0	0	-0.56	-0.59	1	1	0	900	900	0
12/4/2024 9:00	61506	EPET_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	900	900	0
12/4/2024 9:00	59101	WALK_T2	0	0	0	0	0	0	8.74	7.88	8	4	-4	4800	2400	-2400
12/4/2024 9:00	53501	EVIL_T2	1	2	1	0.2	0.5	0.3	-5.97	-6.29	12	12	0	7200	7200	0
12/4/2024 9:00	57401	SPAN_T1	2	2	0	0.4	0.75	0.35	1.65	0.78	10	0	-10	6000	0	-6000
12/4/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
12/4/2024 9:00	44902	SCOT_T2	0	0	0	0	0	0	-0.87	-0.89	0	0	0	0	0	0
12/4/2024 9:00	65502	MOJO_T2	0	0	0	0	0	0	-0.53	-0.13	0	0	0	0	0	0
12/4/2024 9:00	53301	GRAT_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
12/4/2024 9:00	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/4/2024 9:00	53502	EVIL_T2	1	1	0	3.7	3.1	-0.6	0	0	0	0	0	0	0	0
12/4/2024 9:00	25402	LANA_T2	144	93	-51	0.85	0.82	-0.03	0.61	0.57	0	0	0	0	0	0
12/4/2024 9:00	63802	HEMP_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
12/4/2024 9:00	63804	HEMP_T1	1	1	0	6	6.6	0.6	0	0	0	0	0	0	0	0
12/4/2024 9:00	21204	ECAR_T2	5	5	0	0.98	0.73	-0.25	-0.63	-0.65	0	0	0	0	0	0
12/4/2024 9:00	24902	WHHA_T1	3	5	2	0.97	1.08	0.11	0	0	0	0	0	0	0	0
12/4/2024 9:00	51006	NHAR_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/4/2024 9:00	52202	DEVO_T2	0	0	0	0	0	0	-1.37	-1.38	0	0	0	0	0	0
12/4/2024 9:00	46101	MACI_T2	0	0	0	0	0	0	-0.77	-0.82	2	2	0	2400	2400	0
12/4/2024 9:00	44505	HAMI_T2	0	0	0	0	0	0	1.44	1.39	0	0	0	0	0	0
12/4/2024 9:00	46503	LOHA_T1	0	0	0	0	0	0	-1.24	-1.22	0	0	0	0	0	0
12/4/2024 9:00	46206	DANV_T2	0	1	1	0	0.8	0.8	4.61	4.71	4	4	0	4200	4200	0
12/4/2024 9:00	67503	WEWI_T2	1	1	0	7.1	7.4	0.3	0.27	0.22	0	0	0	0	0	0
12/4/2024 9:00	53901	HALI_T2	1	1	0	0.7	1	0.3	-1.33	-1.31	0	0	0	0	0	0
12/4/2024 9:00	26001	WDAM_T1	10	14	4	0.94	0.68	-0.26	-0.32	-0.33	0	0	0	0	0	0
12/4/2024 9:00	65802	RTWN_T2	0	0	0	0	0	0	-0.24	-0.3	0	0	0	0	0	0
12/4/2024 9:00	65001	NEFF_T2	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
12/4/2024 9:00	63803	HEMP_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/4/2024 9:00	40802	EXCH_T2	0	1	1	0	0.1	0.1	-0.94	-1.43	0	0	0	0	0	0
12/4/2024 9:00	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 9:00	65004	NEFF_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
12/4/2024 9:00	63601	LETO_T1	0	0	0	0	0	0	2.33	2.29	4	2	-2	4200	1800	-2400
12/4/2024 9:00	47203	FAXO_T2	0	1	1	0	1.5	1.5	-0.97	-1	0	0	0	0	0	0
12/4/2024 9:00	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 9:00	64501	LAVI_T1	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
12/4/2024 9:00	52403	GRPA_T2	0	0	0	0	0	0	-0.09	-0.13	0	0	0	0	0	0
12/4/2024 9:00	25801	SUTR_T2	4	2	-2	4.25	8	3.75	0.11	0.09	0	0	0	0	0	0
12/4/2024 9:00	65205	PRIN_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
12/4/2024 9:00	66703	STRA_T1	0	3	3	0	0.2	0.2	-1.64	-1.78	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/4/2024 9:00	44904	SCOT_T1	0	0	0	0	0	0	0.93	0.94	0	0	0	0	0	0
12/4/2024 9:00	47401	PENS_T1	0	0	0	0	0	0	-4.16	-3.86	0	0	0	0	0	0
12/4/2024 9:00	66504	SMAN_T2	0	0	0	0	0	0	-4.3	-4.32	3	3	0	3600	3600	0
12/4/2024 9:00	22901	HARW_T1	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
12/4/2024 9:00	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 9:00	60902	DONG_T2	0	0	0	0	0	0	0.83	0.77	0	0	0	0	0	0
12/4/2024 9:00	45701	LIND_T2	0	0	0	0	0	0	-1.62	-1.6	0	0	0	0	0	0
12/4/2024 9:00	64204	KINZ_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
12/4/2024 9:00	51002	NHAR_T1	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
12/4/2024 9:00	23403	HONE_T1	0	0	0	0	0	0	-0.68	-0.62	0	0	0	0	0	0
12/4/2024 9:00	46203	DANV_T2	0	0	0	0	0	0	-1.08	-1.14	0	0	0	0	0	0
12/4/2024 9:00	54503	ENOL_T2	0	0	0	0	0	0	-0.34	-0.32	1	1	0	600	600	0
12/4/2024 9:00	60701	BREC_T1	4	2	-2	0.6	0	-0.6	-0.5	-0.65	10	10	0	6000	6000	0
12/4/2024 9:00	26401	INOR_T1	104	96	-8	1.55	0.63	-0.92	0	0	0	0	0	0	0	0
12/4/2024 9:00	60901	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/4/2024 9:00	20603	GRWO_T2	0	0	0	0	0	0	-0.5	-0.48	1	1	0	900	900	0
12/4/2024 9:00	54601	SUMM_T2	1	6	5	0.3	0.42	0.12	0	0	12	12	0	12600	12600	0
12/4/2024 9:00	64203	KINZ_T1	0	0	0	0	0	0	1.38	-0.52	3	3	0	2100	2100	0
12/4/2024 9:00	41901	REED_T1	1	5	4	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/4/2024 9:00	22602	KIMB_T1	0	0	0	0	0	0	1	0.98	0	0	0	0	0	0
12/4/2024 9:09	65902	SAKR_T2	0	0	0	0	0	0	-0.1	-0.27	1	1	0	300	300	0
12/4/2024 9:09	65901	SAKR_T2	1	1	0	8.1	8.5	0.4	0	0	0	0	0	0	0	0
12/4/2024 9:18	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 9:18	14601	SWHI_T1	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
12/4/2024 9:20	16103	BING_T2	0	0	0	0	0	0	-1.49	-1.49	1	1	0	900	900	0
12/4/2024 9:20	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 9:24	64901	MILL_T1	0	19	19	0	0.14	0.14	0	0	0	0	0	0	0	0
12/4/2024 9:24	64904	MILL_T1	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
12/4/2024 9:28	44901	SCOT_T2	0	0	0	0	0	0	0.04	0.16	0	0	0	0	0	0
12/4/2024 9:29	47901	HRDG_T1	0	0	0	0	0	0	1.18	1.2	0	0	0	0	0	0
12/4/2024 9:32	15201	SFAR_T1	0	0	0	0	0	0	-1.17	-1.27	4	4	0	3600	3600	0
12/4/2024 9:34	66702	STRA_T1	0	0	0	0	0	0	-0.38	0.8	3	3	0	2700	2700	0
12/4/2024 9:34	66703	STRA_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/4/2024 9:35	67001	STHI_T2	2	4	2	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
12/4/2024 9:35	67002	STHI_T2	0	0	0	0	0	0	1.38	1.42	0	0	0	0	0	0
12/4/2024 9:37	64801	MONE_T2	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
12/4/2024 9:37	53502	EVIL_T2	1	1	0	3.1	2.8	-0.3	0.22	0.32	2	2	0	1200	1200	0
12/4/2024 9:37	64802	MONE_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 9:37	66703	STRA_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/4/2024 9:37	66701	STRA_T1	0	0	0	0	0	0	-0.04	0.02	1	1	0	600	600	0
12/4/2024 9:37	66702	STRA_T1	0	0	0	0	0	0	0.8	0.72	3	3	0	2700	2700	0
12/4/2024 9:37	53501	EVIL_T2	2	5	3	0.5	0.9	0.4	0	0	0	0	0	0	0	0
12/4/2024 9:40	66701	STRA_T1	0	0	0	0	0	0	-0.04	0.02	1	1	0	600	600	0
12/4/2024 9:40	66703	STRA_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/4/2024 9:42	41902	REED_T1	0	4	4	0	0	0	0.34	0.35	1	1	0	900	900	0
12/4/2024 9:42	41901	REED_T1	5	2	-3	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/4/2024 9:43	67001	STHI_T2	2	4	2	0.4	0.33	-0.07	0.16	0.16	0	0	0	0	0	0
12/4/2024 9:47	45501	DERR_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
12/4/2024 9:47	45502	DERR_T2	1	5	4	0.2	0.2	0	0.1	0.19	0	0	0	0	0	0
12/4/2024 9:50	45702	LIND_T2	0	0	0	0	0	0	-0.95	-0.93	0	0	0	0	0	0
12/4/2024 9:51	45701	LIND_T2	0	0	0	0	0	0	-1.59	-1.56	0	0	0	0	0	0
12/4/2024 9:52	14601	SWHI_T1	0	0	0	0	0	0	-0.71	-0.62	0	0	0	0	0	0
12/4/2024 9:52	14605	SWHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/4/2024 9:54	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 9:54	14601	SWHI_T1	0	0	0	0	0	0	-0.71	-0.62	0	0	0	0	0	0
12/4/2024 9:54	14605	SWHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/4/2024 9:57	46602	LACR_T1	19	23	4	0.16	0.19	0.03	-1.07	-1.06	0	0	0	0	0	0
12/4/2024 9:58	58202	NEWV_T1	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
12/4/2024 10:00	67002	STHI_T2	0	0	0	0	0	0	2.11	2.04	0	0	0	0	0	0
12/4/2024 10:00	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 10:00	67001	STHI_T2	4	6	2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
12/4/2024 10:00	58402	MORO_T1	0	0	0	0	0	0	0.28	0.18	3	2	-1	2400	1500	-900
12/4/2024 10:01	57402	SPAN_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
12/4/2024 10:03	67001	STHI_T2	4	6	2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
12/4/2024 10:03	67002	STHI_T2	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
12/4/2024 10:03	46206	DANV_T2	1	1	0	0.5	0.1	-0.4	2.65	2.63	1	1	0	1200	1200	0
12/4/2024 10:04	10801	CHHI_T1	0	0	0	0	0	0	-1.25	-1.33	2	2	0	1500	1500	0
12/4/2024 10:04	57403	SPAN_T1	14	21	7	0.32	0.31	-0.01	0.25	0.23	0	0	0	0	0	0
12/4/2024 10:04	57401	SPAN_T1	2	2	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
12/4/2024 10:05	53501	EVIL_T2	1	3	2	0.6	0.25	-0.35	-1.04	-1	2	2	0	1200	1200	0
12/4/2024 10:05	53502	EVIL_T2	1	5	4	2.8	2.1	-0.7	0	0	0	0	0	0	0	0
12/4/2024 10:06	23401	HONE_T2	1	2	1	1.3	0	-1.3	-0.08	0.22	0	0	0	0	0	0
12/4/2024 10:06	48901	FOSP_T2	7	7	0	0.23	0.31	0.08	0	0	0	0	0	0	0	0
12/4/2024 10:06	48902	FOSP_T2	10	10	0	0.37	0.35	-0.02	-0.58	-0.57	0	2	2	0	2400	2400
12/4/2024 10:06	23402	HONE_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
12/4/2024 10:07	63804	HEMP_T1	1	9	8	6.1	6	-0.1	0	0	0	0	0	0	0	0
12/4/2024 10:07	63802	HEMP_T1	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
12/4/2024 10:07	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/4/2024 10:07	57201	ROSS_T1	0	0	0	0	0	0	-0.47	-0.44	0	0	0	0	0	0
12/4/2024 10:07	63803	HEMP_T1	1	4	3	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
12/4/2024 10:08	55002	NEWP_T1	6	6	0	0.72	0.87	0.15	0	0	0	0	0	0	0	0
12/4/2024 10:08	55001	NEWP_T1	1	1	0	0.1	0.1	0	-0.7	-0.13	1	1	0	600	600	0
12/4/2024 10:10	54603	SUMM_T2	0	0	0	0	0	0	-0.8	-0.84	2	2	0	1800	1800	0
12/4/2024 10:10	67002	STHI_T2	0	0	0	0	0	0	0.68	0.72	0	0	0	0	0	0
12/4/2024 10:10	57201	ROSS_T1	0	0	0	0	0	0	-0.47	-0.44	0	0	0	0	0	0
12/4/2024 10:10	67001	STHI_T2	4	6	2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
12/4/2024 10:10	67402	WAKE_T2	0	0	0	0	0	0	0.27	0.26	1	1	0	600	600	0
12/4/2024 10:10	15201	SFAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 10:10	54601	SUMM_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/4/2024 10:10	67401	WAKE_T2	1	0	-1	5.3	0	-5.3	0	0	0	0	0	0	0	0
12/4/2024 10:13	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 10:13	64802	MONE_T2	6	1	-5	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/4/2024 10:14	55001	NEWP_T1	1	1	0	0.1	0.1	0	-0.7	-0.13	1	1	0	600	600	0
12/4/2024 10:14	55002	NEWP_T1	6	6	0	0.72	0.87	0.15	0	0	0	0	0	0	0	0
12/4/2024 10:19	51503	SWAT_T1	2	2	0	0.95	1.15	0.2	0	0	0	0	0	0	0	0
12/4/2024 10:19	51502	SWAT_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
12/4/2024 10:22	12202	FOGE_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
12/4/2024 10:26	55002	NEWP_T1	6	3	-3	0.87	0.33	-0.54	0	0	0	0	0	0	0	0
12/4/2024 10:26	53502	EVIL_T2	1	5	4	2.1	2.4	0.3	0.36	0.38	2	2	0	1200	1200	0
12/4/2024 10:26	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	-0.13	-0.11	1	0	-1	600	0	-600
12/4/2024 10:26	53501	EVIL_T2	2	1	-1	0.25	0.9	0.65	0	0	0	0	0	0	0	0
12/4/2024 10:28	16102	BING_T2	1	1	0	0.7	0.6	-0.1	0.12	0.07	0	0	0	0	0	0
12/4/2024 10:33	52502	PROG_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
12/4/2024 10:35	67002	STHI_T2	0	14	14	0	0.14	0.14	0	0	0	0	0	0	0	0
12/4/2024 10:35	67001	STHI_T2	6	159	153	0.25	0.13	-0.12	0.3	0.3	0	0	0	0	0	0
12/4/2024 10:36	52502	PROG_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
12/4/2024 10:36	55001	NEWP_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 10:36	55002	NEWP_T1	3	3	0	0.33	0.1	-0.23	-0.19	-0.16	0	0	0	0	0	0
12/4/2024 10:37	57201	ROSS_T1	0	0	0	0	0	0	-0.4	-0.45	0	0	0	0	0	0
12/4/2024 10:37	67001	STHI_T2	6	159	153	0.25	0.13	-0.12	0	0	0	0	0	0	0	0
12/4/2024 10:37	67002	STHI_T2	0	14	14	0	0.14	0.14	0.72	0.7	0	0	0	0	0	0
12/4/2024 10:38	16302	ALPA_T2	0	1	1	0	0.1	0.1	-0.46	-0.56	0	0	0	0	0	0
12/4/2024 10:40	11103	EGYP_T1	0	0	0	0	0	0	-0.77	-0.73	0	0	0	0	0	0
12/4/2024 10:41	52403	GRPA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/4/2024 10:41	52402	GRPA_T2	1	4	3	0.2	0.25	0.05	-0.72	-0.72	0	0	0	0	0	0
12/4/2024 10:42	66703	STRA_T1	0	9	9	0	0.6	0.6	0	0	0	0	0	0	0	0
12/4/2024 10:42	66701	STRA_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
12/4/2024 10:44	67702	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 10:46	66703	STRA_T1	1	54	53	0.2	0.27	0.07	0	0	0	0	0	0	0	0
12/4/2024 10:46	66701	STRA_T1	1	1	0	0.1	1.3	1.2	0	0	0	0	0	0	0	0
12/4/2024 10:47	61102	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/4/2024 10:47	67702	WERN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/4/2024 10:47	61103	BERK_T5	0	0	0	0	0	0	0.88	0.42	0	0	0	0	0	0
12/4/2024 10:49	61103	BERK_T5	0	0	0	0	0	0	0.1	0.05	0	0	0	0	0	0
12/4/2024 10:49	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 10:49	61102	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/4/2024 10:51	45801	HEGI_T1	0	0	0	0	0	0	-0.56	-0.61	1	1	0	900	900	0
12/4/2024 10:53	52501	PROG_T1	289	271	-18	0.42	0.29	-0.13	-0.41	-0.38	0	0	0	0	0	0
12/4/2024 10:53	52504	PROG_T1	75	37	-38	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
12/4/2024 10:56	67203	TEHI_T1	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
12/4/2024 10:56	67201	TEHI_T1	0	0	0	0	0	0	0.71	0.59	1	1	0	900	900	0
12/4/2024 11:05	65502	MOJO_T2	0	0	0	0	0	0	-0.21	-0.32	0	0	0	0	0	0
12/4/2024 11:06	65503	MOJO_T2	0	0	0	0	0	0	-1.02	-0.98	1	1	0	900	900	0
12/4/2024 11:06	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 11:06	42902	MIDD_T2	0	0	0	0	0	0	-1.47	-1.43	2	2	0	1200	1200	0
12/4/2024 11:06	63801	HEMP_T1	1	0	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
12/4/2024 11:06	63803	HEMP_T1	1	0	-1	0.3	0	-0.3	0.08	0.02	0	0	0	0	0	0
12/4/2024 11:06	63804	HEMP_T1	2	1	-1	3.3	6.2	2.9	0	0	0	0	0	0	0	0
12/4/2024 11:10	57401	SPAN_T1	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
12/4/2024 11:10	57403	SPAN_T1	17	34	17	0.29	0.41	0.12	0.22	0.17	0	0	0	0	0	0
12/4/2024 11:11	57403	SPAN_T1	17	34	17	0.29	0.41	0.12	0.43	0.34	0	0	0	0	0	0
12/4/2024 11:11	57401	SPAN_T1	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
12/4/2024 11:14	10801	CHHI_T1	0	0	0	0	0	0	-1.37	-1.36	2	2	0	1500	1500	0
12/4/2024 11:26	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 11:27	66703	STRA_T1	54	95	41	0.27	0.26	-0.01	-0.76	-0.71	0	0	0	0	0	0
12/4/2024 11:27	66701	STRA_T1	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
12/4/2024 11:29	20502	HGTN_T1	3	3	0	6.4	6.27	-0.13	0	0	0	0	0	0	0	0
12/4/2024 11:29	20501	HGTN_T1	0	0	0	0	0	0	-0.46	-0.51	2	2	0	1200	1200	0
12/4/2024 11:29	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 11:30	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 11:30	61102	BERK_T5	0	0	0	0	0	0	1.04	1.04	2	2	0	600	600	0
12/4/2024 11:30	61101	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 11:36	47401	PENS_T1	0	4	4	0	1.08	1.08	-3.03	-3.04	0	0	0	0	0	0
12/4/2024 11:36	47402	PENS_T1	2	1	-1	1.25	0	-1.25	0	0	0	0	0	0	0	0
12/4/2024 11:36	47403	PENS_T1	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
12/4/2024 11:42	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 11:42	20403	ASHF_T2	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
12/4/2024 11:42	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 11:42	50624	CCTY_T2	2	2	0	7.05	6.9	-0.15	0	0	0	0	0	0	0	0
12/4/2024 11:42	50623	CCTY_T2	6	6	0	6.28	6.28	0	0	0	0	0	0	0	0	0
12/4/2024 11:42	50625	CCTY_T2	4	4	0	6.05	6.08	0.03	0	0	0	0	0	0	0	0
12/4/2024 11:43	20403	ASHF_T2	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
12/4/2024 11:43	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	-0.98	-1	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/4/2024 11:43	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 11:47	52403	GRPA_T2	15	79	64	0.64	0.5	-0.14	-0.07	-0.12	0	0	0	0	0	0
12/4/2024 11:47	52402	GRPA_T2	5	9	4	0.54	0.69	0.15	0	0	0	0	0	0	0	0
12/4/2024 11:47	52404	GRPA_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
12/4/2024 11:47	52401	GRPA_T2	1	6	5	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
12/4/2024 11:47	67402	WAKE_T2	0	0	0	0	0	0	1.11	1.09	0	0	0	0	0	0
12/4/2024 11:48	52403	GRPA_T2	15	79	64	0.64	0.5	-0.14	0	0	0	0	0	0	0	0
12/4/2024 11:48	52404	GRPA_T2	1	1	0	0.2	0.6	0.4	-0.29	-0.23	0	0	0	0	0	0
12/4/2024 11:48	52402	GRPA_T2	5	9	4	0.54	0.69	0.15	0	0	0	0	0	0	0	0
12/4/2024 11:48	52401	GRPA_T2	1	6	5	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
12/4/2024 11:50	43201	MVIL_T2	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
12/4/2024 11:53	49804	UNIV_T1	0	0	0	0	0	0	0.62	0.65	0	0	0	0	0	0
12/4/2024 11:53	49803	UNIV_T1	2	1	-1	4.1	5.9	1.8	0	0	0	0	0	0	0	0
12/4/2024 11:56	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 11:58	67106	SPRI_T2	0	0	0	0	0	0	167.92	167.92	2	2	0	1800	1800	0
12/4/2024 11:58	67101	SPRI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/4/2024 11:58	11301	EMMA_T1	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
12/4/2024 12:00	67101	SPRI_T2	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
12/4/2024 12:00	67106	SPRI_T2	0	5	5	0	0.16	0.16	83.96	83.96	1	1	0	900	900	0
12/4/2024 12:12	49803	UNIV_T1	1	1	0	5.9	5.8	-0.1	-0.85	-0.89	0	0	0	0	0	0
12/4/2024 12:12	40801	EXCH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/4/2024 12:12	40802	EXCH_T2	0	1	1	0	0.1	0.1	-0.71	-0.73	0	0	0	0	0	0
12/4/2024 12:12	11302	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 12:12	10801	CHHI_T1	0	0	0	0	0	0	-1.35	-1.35	2	2	0	1500	1500	0
12/4/2024 12:16	17802	GILB_T1	0	0	0	0	0	0	0.04	0.18	0	0	0	0	0	0
12/4/2024 12:16	11301	EMMA_T1	0	0	0	0	0	0	-0.66	-0.62	0	0	0	0	0	0
12/4/2024 12:18	22903	HARW_T1	6	23	17	0.2	0.77	0.57	0	0	0	0	0	0	0	0
12/4/2024 12:18	22904	HARW_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
12/4/2024 12:18	22901	HARW_T1	2	2	0	1.35	1.75	0.4	0	0	0	0	0	0	0	0
12/4/2024 12:18	22906	HARW_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/4/2024 12:18	53302	GRAT_T2	1	1	0	0.8	2.3	1.5	0	0	0	0	0	0	0	0
12/4/2024 12:18	22905	HARW_T1	1	0	-1	0.3	0	-0.3	-0.32	-0.31	0	0	0	0	0	0
12/4/2024 12:19	63803	HEMP_T1	1	2	1	0.1	0.15	0.05	0.03	0.04	0	0	0	0	0	0
12/4/2024 12:19	63801	HEMP_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
12/4/2024 12:19	63804	HEMP_T1	1	4	3	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
12/4/2024 12:23	60803	BUCK_T1	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/4/2024 12:23	58401	MORO_T1	0	0	0	0	0	0	-1.97	-2.04	2	2	0	1200	1200	0
12/4/2024 12:23	60801	BUCK_T1	1	2	1	0.3	0.3	0	-0.15	-0.15	0	0	0	0	0	0
12/4/2024 12:24	14603	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/4/2024 12:27	54505	ENOL_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
12/4/2024 12:27	54504	ENOL_T2	0	0	0	0	0	0	-1.01	-1.02	1	1	0	600	600	0
12/4/2024 12:27	54502	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/4/2024 12:30	55503	HERS_T1	0	0	0	0	0	0	-1.73	-1.73	0	0	0	0	0	0
12/4/2024 12:30	55501	HERS_T1	52	52	0	0.36	0.38	0.02	0	0	0	0	0	0	0	0
12/4/2024 12:32	55508	HERS_T2	2	2	0	1.5	1.55	0.05	-2.64	-2.64	0	0	0	0	0	0
12/4/2024 12:36	66505	SMAN_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
12/4/2024 12:36	66504	SMAN_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
12/4/2024 12:37	66505	SMAN_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
12/4/2024 12:37	66504	SMAN_T2	0	2	2	0	0.65	0.65	-0.43	-0.42	0	0	0	0	0	0
12/4/2024 12:41	52401	GRPA_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/4/2024 12:41	52402	GRPA_T2	9	6	-3	0.51	0.4	-0.11	0	0	0	0	0	0	0	0
12/4/2024 12:41	52403	GRPA_T2	4	1	-3	0.7	0.2	-0.5	-0.09	-0.11	0	0	0	0	0	0
12/4/2024 12:41	52404	GRPA_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/4/2024 12:43	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 12:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 12:47	55507	HERS_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/4/2024 12:47	55501	HERS_T1	52	52	0	0.32	0.37	0.05	0	0	0	0	0	0	0	0
12/4/2024 12:56	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 13:00	53903	HALI_T2	3	2	-1	0.97	1.3	0.33	0	0	0	0	0	0	0	0
12/4/2024 13:00	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
12/4/2024 13:01	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
12/4/2024 13:01	53903	HALI_T2	3	2	-1	0.97	1.3	0.33	0	0	0	0	0	0	0	0
12/4/2024 13:02	53903	HALI_T2	3	2	-1	0.97	1.3	0.33	0	0	0	0	0	0	0	0
12/4/2024 13:02	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
12/4/2024 13:02	57702	PAXT_T1	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
12/4/2024 13:03	57304	MOAL_T2	0	0	0	0	0	0	-0.09	-0.06	0	0	0	0	0	0
12/4/2024 13:03	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
12/4/2024 13:03	57303	MOAL_T2	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
12/4/2024 13:03	53903	HALI_T2	3	2	-1	0.97	1.3	0.33	0	0	0	0	0	0	0	0
12/4/2024 13:04	53903	HALI_T2	3	2	-1	0.97	1.3	0.33	0	0	0	0	0	0	0	0
12/4/2024 13:04	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
12/4/2024 13:07	57205	ROSS_T1	1	0	-1	0.5	0	-0.5	0.29	0.31	0	0	0	0	0	0
12/4/2024 13:07	64305	LINC_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/4/2024 13:07	64301	LINC_T1	0	0	0	0	0	0	0.14	0.05	0	0	0	0	0	0
12/4/2024 13:08	14603	SWHI_T1	0	0	0	0	0	0	-3.14	-3.15	4	4	0	2400	2400	0
12/4/2024 13:25	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 13:26	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 13:28	10705	CATA_T2	0	0	0	0	0	0	-1.75	-1.76	2	2	0	1800	1800	0
12/4/2024 13:30	10705	CATA_T2	0	0	0	0	0	0	-0.87	-0.88	1	1	0	900	900	0
12/4/2024 13:30	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 13:30	13101	NHAM_T1	0	0	0	0	0	0	-4.72	-2.82	4	2	-2	4200	2400	-1800
12/4/2024 13:32	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 13:32	10705	CATA_T2	0	0	0	0	0	0	-0.87	-0.88	1	1	0	900	900	0
12/4/2024 13:33	45802	HEGI_T2	18	14	-4	0.48	0.18	-0.3	0	0	0	0	0	0	0	0
12/4/2024 13:39	65205	PRIN_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
12/4/2024 13:42	61001	DONV_T1	1	0	-1	0.4	0	-0.4	-0.22	-0.21	0	0	0	0	0	0
12/4/2024 13:43	61001	DONV_T1	1	0	-1	0.4	0	-0.4	-0.22	-0.21	0	0	0	0	0	0
12/4/2024 13:50	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 13:50	63501	HEID_TBK1-2	0	1	1	0	0.4	0.4	0.01	0.11	1	1	0	900	900	0
12/4/2024 13:55	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 14:07	64101	REFR_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
12/4/2024 14:09	64101	REFR_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
12/4/2024 14:19	67702	WERN_T2	5	0	-5	0.44	0	-0.44	0	0	0	0	0	0	0	0
12/4/2024 14:19	64701	LITI_T1	0	0	0	0	0	0	0.37	0.41	0	0	0	0	0	0
12/4/2024 16:02	57205	ROSS_T1	0	0	0	0	0	0	0.23	0.26	0	0	0	0	0	0
12/4/2024 16:12	64904	MILL_T1	0	1	1	0	0	0	0.59	0.61	0	0	0	0	0	0
12/4/2024 17:07	23404	HONE_T1	9	21	12	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/4/2024 17:07	23403	HONE_T1	29	52	23	0.16	0.16	0	-0.69	-0.72	0	0	0	0	0	0
12/4/2024 17:33	25402	LAHA_T2	74	105	31	0.79	0.66	-0.13	0.35	0.36	0	0	0	0	0	0
12/4/2024 17:36	17802	GILB_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
12/4/2024 18:02	13101	NHAM_T1	8	11	3	0.79	0.39	-0.4	-2.73	-2.81	2	2	0	2400	2400	0
12/4/2024 18:04	67002	STHI_T2	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
12/4/2024 18:04	67001	STHI_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
12/4/2024 18:04	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:04	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:08	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:08	16103	BING_T2	0	0	0	0	0	0	-1.42	-1.48	1	1	0	900	900	0
12/4/2024 18:08	15201	SFAR_T1	0	0	0	0	0	0	-0.85	-0.86	2	2	0	1800	1800	0
12/4/2024 18:08	15202	SFAR_T1	1	0	-1	8.2	0	-8.2	0	0	0	0	0	0	0	0
12/4/2024 18:08	14603	SWHI_T1	0	0	0	0	0	0	-1.55	-1.55	2	2	0	1200	1200	0
12/4/2024 18:10	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:10	11301	EMMA_T1	0	0	0	0	0	0	-0.73	-0.71	0	0	0	0	0	0
12/4/2024 18:10	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:10	10705	CATA_T2	0	0	0	0	0	0	-0.85	-0.81	1	1	0	900	900	0
12/4/2024 18:11	58202	NEWV_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
12/4/2024 18:12	16302	ALPA_T2	0	0	0	0	0	0	-0.55	-0.58	0	0	0	0	0	0
12/4/2024 18:14	10801	CHHI_T1	0	0	0	0	0	0	-1.38	-1.38	2	2	0	1500	1500	0
12/4/2024 18:14	16102	BING_T2	0	1	1	0	0.1	0.1	-0.05	-0.09	0	0	0	0	0	0
12/4/2024 18:14	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
12/4/2024 18:15	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
12/4/2024 18:15	22905	HARW_T1	81	105	24	1.21	1.46	0.25	-0.22	-0.21	0	0	0	0	0	0
12/4/2024 18:15	22904	HARW_T1	4	6	2	0.95	0.78	-0.17	0	0	0	0	0	0	0	0
12/4/2024 18:15	22901	HARW_T1	19	30	11	0.93	1.33	0.4	0	0	0	0	0	0	0	0
12/4/2024 18:15	22903	HARW_T1	38	49	11	1.23	1.16	-0.07	0	0	0	0	0	0	0	0
12/4/2024 18:16	20603	GRWO_T2	28	25	-3	0.44	0.26	-0.18	0.55	0.54	0	0	0	0	0	0
12/4/2024 18:16	20601	GRWO_T2	3	3	0	1.03	1.25	0.22	0	0	0	0	0	0	0	0
12/4/2024 18:16	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:16	58003	WCAR_T1	1	1	0	1.1	1.1	0	0.59	0.57	0	0	0	0	0	0
12/4/2024 18:16	10705	CATA_T2	0	0	0	0	0	0	-1.69	-1.61	2	2	0	1800	1800	0
12/4/2024 18:16	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:16	58001	WCAR_T1	4	4	0	0.88	0.93	0.05	0	0	0	0	0	0	0	0
12/4/2024 18:18	58202	NEWV_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
12/4/2024 18:18	58402	MORO_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/4/2024 18:18	58401	MORO_T1	1	0	-1	0.2	0	-0.2	-0.9	-0.92	1	1	0	600	600	0
12/4/2024 18:19	24901	WHHA_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
12/4/2024 18:19	24902	WHHA_T1	16	25	9	0.95	0.71	-0.24	0	0	0	0	0	0	0	0
12/4/2024 18:20	15201	SFAR_T1	0	0	0	0	0	0	-0.85	-0.86	2	2	0	1800	1800	0
12/4/2024 18:20	58001	WCAR_T1	4	4	0	0.88	0.93	0.05	0	0	0	0	0	0	0	0
12/4/2024 18:20	14602	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:20	41602	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/4/2024 18:20	58003	WCAR_T1	1	1	0	1.1	1.1	0	0.59	0.57	0	0	0	0	0	0
12/4/2024 18:20	10801	CHHI_T1	0	0	0	0	0	0	-2.76	-2.76	4	4	0	3000	3000	0
12/4/2024 18:21	55001	NEWP_T1	0	0	0	0	0	0	-0.7	-0.73	1	1	0	600	600	0
12/4/2024 18:21	55002	NEWP_T1	4	4	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
12/4/2024 18:21	58402	MORO_T1	1	1	0	0.3	0	-0.3	-0.01	-0.02	3	3	0	1950	1950	0
12/4/2024 18:21	58401	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/4/2024 18:22	52402	GRPA_T2	11	3	-8	0.44	0.2	-0.24	0	0	0	0	0	0	0	0
12/4/2024 18:22	26402	INOR_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
12/4/2024 18:22	11103	EGYP_T1	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
12/4/2024 18:22	52401	GRPA_T2	4	5	1	0.28	0	-0.28	0	0	0	0	0	0	0	0
12/4/2024 18:22	52404	GRPA_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
12/4/2024 18:22	11104	EGYP_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
12/4/2024 18:22	40802	EXCH_T2	3	12	9	0.2	0.17	-0.03	-0.91	-0.88	0	0	0	0	0	0
12/4/2024 18:22	57205	ROSS_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
12/4/2024 18:22	26401	INOR_T1	22	39	17	0.5	0.78	0.28	0	0	0	0	0	0	0	0
12/4/2024 18:22	40801	EXCH_T2	2	4	2	0.25	0.28	0.03	0	0	0	0	0	0	0	0
12/4/2024 18:23	55002	NEWP_T1	4	4	0	0.75	0.7	-0.05	-0.21	-0.19	0	0	0	0	0	0
12/4/2024 18:23	52404	GRPA_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
12/4/2024 18:23	57201	ROSS_T1	0	0	0	0	0	0	-0.67	-0.6	0	0	0	0	0	0
12/4/2024 18:23	52401	GRPA_T2	4	5	1	0.28	0	-0.28	0	0	0	0	0	0	0	0
12/4/2024 18:23	57205	ROSS_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
12/4/2024 18:23	52402	GRPA_T2	11	3	-8	0.44	0.2	-0.24	0	0	0	0	0	0	0	0
12/4/2024 18:24	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/4/2024 18:24	54506	ENOL_T2	0	0	0	0	0	0	0.56	0.56	1	0	-1	600	0	-600
12/4/2024 18:24	58001	WCAR_T1	4	4	0	0.88	0.93	0.05	0	0	0	0	0	0	0	0
12/4/2024 18:24	54501	ENOL_T2	0	0	0	0	0	0	-0.48	-0.49	1	1	0	600	600	0
12/4/2024 18:24	20502	HGTN_T1	3	3	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
12/4/2024 18:24	52402	GRPA_T2	11	3	-8	0.44	0.2	-0.24	0	0	0	0	0	0	0	0
12/4/2024 18:24	57201	ROSS_T1	0	0	0	0	0	0	-0.67	-0.6	0	0	0	0	0	0
12/4/2024 18:24	52403	GRPA_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
12/4/2024 18:24	45501	DERR_T2	4	6	2	0.35	0.2	-0.15	0.72	0.71	2	2	0	1800	1800	0
12/4/2024 18:24	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/4/2024 18:24	55101	WERT_T1	0	0	0	0	0	0	-1.45	-1.4	1	1	0	600	600	0
12/4/2024 18:24	20501	HGTN_T1	0	0	0	0	0	0	-0.43	-0.48	2	2	0	1200	1200	0
12/4/2024 18:24	58003	WCAR_T1	1	1	0	1.1	1.1	0	1.14	1.18	0	0	0	0	0	0
12/4/2024 18:24	52401	GRPA_T2	4	5	1	0.28	0	-0.28	0	0	0	0	0	0	0	0
12/4/2024 18:25	45501	DERR_T2	4	6	2	0.35	0.2	-0.15	0.72	0.71	2	2	0	1800	1800	0
12/4/2024 18:25	46004	BERW_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
12/4/2024 18:25	54504	ENOL_T2	0	0	0	0	0	0	-1.01	-1.02	1	1	0	600	600	0
12/4/2024 18:25	57402	SPAN_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
12/4/2024 18:25	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/4/2024 18:25	55001	NEWP_T1	0	0	0	0	0	0	-0.73	-0.77	1	1	0	600	600	0
12/4/2024 18:25	57201	ROSS_T1	0	0	0	0	0	0	-0.67	-0.6	0	0	0	0	0	0
12/4/2024 18:25	55002	NEWP_T1	4	4	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
12/4/2024 18:25	46002	BERW_T2	0	0	0	0	0	0	-1.04	-1.1	1	1	0	900	900	0
12/4/2024 18:26	57403	SPAN_T1	0	0	0	0	0	0	0.2	0.16	0	0	0	0	0	0
12/4/2024 18:26	55002	NEWP_T1	4	4	0	0.75	0.7	-0.05	-0.21	-0.19	0	0	0	0	0	0
12/4/2024 18:26	57401	SPAN_T1	1	2	1	0.2	0.45	0.25	-0.68	-0.71	1	1	0	600	600	0
12/4/2024 18:26	57201	ROSS_T1	0	0	0	0	0	0	-0.67	-0.6	0	0	0	0	0	0
12/4/2024 18:27	46504	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/4/2024 18:27	57401	SPAN_T1	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
12/4/2024 18:27	66701	STRA_T1	0	0	0	0	0	0	-0.01	-0.02	1	1	0	600	600	0
12/4/2024 18:27	54603	SUMM_T2	0	0	0	0	0	0	-0.47	-0.47	1	1	0	900	900	0
12/4/2024 18:27	54601	SUMM_T2	3	3	0	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
12/4/2024 18:27	46602	LACR_T1	0	0	0	0	0	0	-1.07	-1.08	0	0	0	0	0	0
12/4/2024 18:27	57403	SPAN_T1	0	0	0	0	0	0	0.2	0.16	0	0	0	0	0	0
12/4/2024 18:27	46506	LOHA_T1	4	3	-1	0.6	1.67	1.07	0	0	0	0	0	0	0	0
12/4/2024 18:27	44901	SCOT_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
12/4/2024 18:27	46501	LOHA_T1	0	0	0	0	0	0	0.05	0.03	1	1	0	1200	1200	0
12/4/2024 18:28	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:28	54501	ENOL_T2	0	0	0	0	0	0	-0.48	-0.49	1	1	0	600	600	0
12/4/2024 18:28	47401	PENS_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
12/4/2024 18:28	50624	CCTY_T2	2	2	0	7.3	7.2	-0.1	0	0	0	0	0	0	0	0
12/4/2024 18:28	57401	SPAN_T1	1	2	1	0.2	0.45	0.25	-1.36	-1.41	2	2	0	1200	1200	0
12/4/2024 18:28	48902	FOSP_T2	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
12/4/2024 18:28	50625	CCTY_T2	2	2	0	7.2	6.75	-0.45	0	0	0	0	0	0	0	0
12/4/2024 18:28	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/4/2024 18:28	47403	PENS_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:28	47402	PENS_T1	4	2	-2	1	0.45	-0.55	0	0	0	0	0	0	0	0
12/4/2024 18:28	12202	FOGE_T2	1	1	0	0.8	0	-0.8	0	0	1	1	0	600	600	0
12/4/2024 18:28	50623	CCTY_T2	6	6	0	6.72	6.75	0.03	0	0	0	0	0	0	0	0
12/4/2024 18:28	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:28	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:29	57403	SPAN_T1	0	0	0	0	0	0	0.2	0.16	0	0	0	0	0	0
12/4/2024 18:29	53902	HALI_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
12/4/2024 18:29	40801	EXCH_T2	2	4	2	0.25	0.28	0.03	0	0	0	0	0	0	0	0
12/4/2024 18:29	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:29	40802	EXCH_T2	3	12	9	0.2	0.17	-0.03	-0.91	-0.88	0	0	0	0	0	0
12/4/2024 18:29	57401	SPAN_T1	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
12/4/2024 18:29	53903	HALI_T2	3	2	-1	1.17	1.6	0.43	0	0	0	0	0	0	0	0
12/4/2024 18:29	57303	MOAL_T2	1	1	0	7.9	7.7	-0.2	0	0	0	0	0	0	0	0
12/4/2024 18:29	53901	HALI_T2	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/4/2024 18:29	54601	SUMM_T2	3	3	0	0.27	0.23	-0.04	0	0	2	2	0	2100	2100	0
12/4/2024 18:29	57304	MOAL_T2	0	0	0	0	0	0	0.18	0.3	0	0	0	0	0	0
12/4/2024 18:30	54601	SUMM_T2	3	3	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:30	53903	HALI_T2	2	2	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
12/4/2024 18:30	14601	SWHI_T1	0	0	0	0	0	0	-2.09	-2.09	0	0	0	0	0	0
12/4/2024 18:30	54603	SUMM_T2	0	0	0	0	0	0	-0.47	-0.47	1	1	0	900	900	0
12/4/2024 18:30	23401	HONE_T2	2	6	4	0.2	0.7	0.5	-0.31	-0.29	0	0	0	0	0	0
12/4/2024 18:30	14602	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:30	53901	HALI_T2	3	2	-1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
12/4/2024 18:30	64101	REFR_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
12/4/2024 18:30	52502	PROG_T2	0	0	0	0	0	0	1.19	1.09	0	0	0	0	0	0
12/4/2024 18:30	23402	HONE_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
12/4/2024 18:30	45702	LIND_T2	0	1	1	0	0.8	0.8	-1.78	-1.78	0	0	0	0	0	0
12/4/2024 18:30	11302	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:30	60301	TWVA_T2	1	1	0	0.7	0	-0.7	-3.82	-3.74	4	4	0	3600	3600	0
12/4/2024 18:30	53902	HALI_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
12/4/2024 18:31	52502	PROG_T2	0	0	0	0	0	0	0.6	0.55	0	0	0	0	0	0
12/4/2024 18:31	57401	SPAN_T1	2	2	0	0.45	0.4	-0.05	-1.36	-1.41	2	2	0	1200	1200	0
12/4/2024 18:31	67001	STHI_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
12/4/2024 18:31	57403	SPAN_T1	0	0	0	0	0	0	0.2	0.16	0	0	0	0	0	0
12/4/2024 18:31	67402	WAKE_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
12/4/2024 18:31	67002	STHI_T2	0	1	1	0	0.1	0.1	0.61	0.65	0	0	0	0	0	0
12/4/2024 18:31	53501	EVIL_T2	0	1	1	0	0.1	0.1	-1.41	-1.51	2	2	0	1200	1200	0
12/4/2024 18:31	60801	BUCK_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
12/4/2024 18:32	45702	LIND_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
12/4/2024 18:32	52504	PROG_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:32	57401	SPAN_T1	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
12/4/2024 18:32	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:32	52401	GRPA_T2	5	0	-5	0.42	0	-0.42	0	0	0	0	0	0	0	0
12/4/2024 18:32	14602	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:32	53501	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:32	45701	LIND_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
12/4/2024 18:32	52402	GRPA_T2	3	3	0	0.2	0.43	0.23	-0.71	-0.74	0	0	0	0	0	0
12/4/2024 18:32	57403	SPAN_T1	0	0	0	0	0	0	0.59	0.49	0	0	0	0	0	0
12/4/2024 18:32	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:32	14603	SWHI_T1	0	0	0	0	0	0	-1.55	-0.89	2	1	-1	1200	600	-600
12/4/2024 18:32	52501	PROG_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:32	53502	EVIL_T2	0	0	0	0	0	0	0.12	0.17	1	1	0	600	600	0
12/4/2024 18:33	57702	PAXT_T1	0	0	0	0	0	0	-0.76	-0.73	0	0	0	0	0	0
12/4/2024 18:33	55002	NEWP_T1	4	4	0	0.6	0.68	0.08	0	0	0	0	0	0	0	0
12/4/2024 18:33	58401	MORO_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	600	600	0
12/4/2024 18:33	58402	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/4/2024 18:33	55001	NEWP_T1	0	0	0	0	0	0	-0.73	-0.77	1	1	0	600	600	0
12/4/2024 18:33	44902	SCOT_T2	0	1	1	0	0	0	-0.91	-0.88	0	0	0	0	0	0
12/4/2024 18:33	45702	LIND_T2	1	1	0	1.2	1	-0.2	-1.78	-1.78	0	0	0	0	0	0
12/4/2024 18:33	61103	BERK_T5	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
12/4/2024 18:34	47403	PENS_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
12/4/2024 18:34	67002	STHI_T2	0	1	1	0	0.1	0.1	2.44	2.59	0	0	0	0	0	0
12/4/2024 18:34	11301	EMMA_T1	0	0	0	0	0	0	-0.71	-0.74	0	0	0	0	0	0
12/4/2024 18:34	63802	HEMP_T1	0	0	0	0	0	0	0.2	0.12	0	0	0	0	0	0
12/4/2024 18:34	47402	PENS_T1	2	9	7	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
12/4/2024 18:34	47401	PENS_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
12/4/2024 18:34	52502	PROG_T2	0	0	0	0	0	0	0.6	0.55	0	0	0	0	0	0
12/4/2024 18:34	63804	HEMP_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:34	67001	STHI_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
12/4/2024 18:34	52501	PROG_T1	0	2	2	0	0.1	0.1	0.49	0.5	1	1	0	300	300	0
12/4/2024 18:34	55508	HERS_T2	2	2	0	0.95	1	0.05	-2.64	-2.64	0	0	0	0	0	0
12/4/2024 18:34	65503	MOJO_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
12/4/2024 18:34	52504	PROG_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:35	43202	MVIL_T2	5	3	-2	0.46	0.2	-0.26	0	0	0	0	0	0	0	0
12/4/2024 18:35	67001	STHI_T2	2	2	0	0.4	0.45	0.05	0.13	0.14	0	0	0	0	0	0
12/4/2024 18:35	67702	WERN_T2	3	5	2	1.07	0	-1.07	0	0	0	0	0	0	0	0
12/4/2024 18:35	47403	PENS_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
12/4/2024 18:35	64101	REFR_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
12/4/2024 18:35	43201	MVIL_T2	2	2	0	0.95	0.7	-0.25	-0.31	-0.34	0	0	0	0	0	0
12/4/2024 18:35	53502	EVIL_T2	0	0	0	0	0	0	0.12	0.17	1	1	0	600	600	0
12/4/2024 18:35	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:35	46206	DANV_T2	1	0	-1	0.1	0	-0.1	1.68	1.57	2	2	0	2100	2100	0
12/4/2024 18:35	53501	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:35	47402	PENS_T1	2	9	7	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
12/4/2024 18:35	67002	STHI_T2	0	1	1	0	0.1	0.1	0.61	0.65	0	0	0	0	0	0
12/4/2024 18:35	67106	SPRI_T2	0	0	0	0	0	0	83.96	83.96	1	1	0	900	900	0
12/4/2024 18:35	47401	PENS_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
12/4/2024 18:35	46203	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:36	67002	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:36	52402	GRPA_T2	3	3	0	0.2	0.43	0.23	0	0	0	0	0	0	0	0
12/4/2024 18:36	52403	GRPA_T2	0	1	1	0	0	0	0	-0.03	0	0	0	0	0	0
12/4/2024 18:36	47403	PENS_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
12/4/2024 18:36	41901	REED_T1	8	7	-1	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
12/4/2024 18:36	45501	DERR_T2	5	2	-3	0.26	0	-0.26	0.72	0.71	2	2	0	1800	1800	0
12/4/2024 18:36	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
12/4/2024 18:36	47401	PENS_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
12/4/2024 18:36	52401	GRPA_T2	5	0	-5	0.42	0	-0.42	0	0	0	0	0	0	0	0
12/4/2024 18:36	51503	SWAT_T1	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0	0
12/4/2024 18:36	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:36	46506	LOHA_T1	3	3	0	0.9	2.7	1.8	0	0	0	0	0	0	0	0
12/4/2024 18:36	51502	SWAT_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
12/4/2024 18:36	47402	PENS_T1	2	9	7	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
12/4/2024 18:36	67001	STHI_T2	2	2	0	0.4	0.45	0.05	0.14	0.14	0	0	0	0	0	0
12/4/2024 18:36	41902	REED_T1	3	6	3	0.5	0.15	-0.35	0.36	0.34	1	1	0	900	900	0
12/4/2024 18:36	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:36	46203	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:36	65502	MOJO_T2	0	0	0	0	0	0	-0.98	-0.96	0	0	0	0	0	0
12/4/2024 18:36	46206	DANV_T2	1	0	-1	0.1	0	-0.1	1.68	1.57	2	2	0	2100	2100	0
12/4/2024 18:36	45801	HEGI_T1	0	0	0	0	0	0	-0.24	-0.19	1	1	0	900	900	0
12/4/2024 18:37	66505	SMAN_T2	3	3	0	0.9	0.73	-0.17	0	0	0	0	0	0	0	0
12/4/2024 18:37	42903	MIDD_T2	2	2	0	0.35	0.95	0.6	0	0	0	0	0	0	0	0
12/4/2024 18:37	42902	MIDD_T2	1	1	0	0.8	0.8	0	-0.49	-0.49	0	0	0	0	0	0
12/4/2024 18:37	44905	SCOT_T1	3	3	0	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
12/4/2024 18:37	66504	SMAN_T2	0	0	0	0	0	0	-0.7	-0.65	0	0	0	0	0	0
12/4/2024 18:37	53302	GRAT_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
12/4/2024 18:37	55503	HERS_T1	0	0	0	0	0	0	-1.73	-1.73	0	0	0	0	0	0
12/4/2024 18:38	47401	PENS_T1	0	0	0	0	0	0	0.27	0.2	0	0	0	0	0	0
12/4/2024 18:38	67001	STHI_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/4/2024 18:38	66505	SMAN_T2	3	3	0	0.9	0.73	-0.17	0	0	0	0	0	0	0	0
12/4/2024 18:38	57401	SPAN_T1	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
12/4/2024 18:38	57403	SPAN_T1	0	0	0	0	0	0	0.16	0.2	0	0	0	0	0	0
12/4/2024 18:38	66504	SMAN_T2	0	0	0	0	0	0	-0.35	-0.32	0	0	0	0	0	0
12/4/2024 18:38	63501	HEID_TBK1-2	28	34	6	0.16	0.21	0.05	-0.93	-0.73	2	2	0	1800	1800	0
12/4/2024 18:38	61103	BERK_T5	0	0	0	0	0	0	0.07	0.1	0	0	0	0	0	0
12/4/2024 18:38	47403	PENS_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
12/4/2024 18:38	67106	SPRI_T2	0	0	0	0	0	0	83.96	83.96	1	1	0	900	900	0
12/4/2024 18:38	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:38	45802	HEGI_T2	45	47	2	1.34	1.39	0.05	0	0	0	0	0	0	0	0
12/4/2024 18:38	67002	STHI_T2	0	1	1	0	0.1	0.1	0.65	0.62	0	0	0	0	0	0
12/4/2024 18:38	47402	PENS_T1	2	9	7	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
12/4/2024 18:39	67402	WAKE_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
12/4/2024 18:39	63804	HEMP_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:39	20403	ASHF_T2	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
12/4/2024 18:39	67001	STHI_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
12/4/2024 18:39	61001	DONV_T1	0	0	0	0	0	0	-0.02	-0.1	0	0	0	0	0	0
12/4/2024 18:39	61103	BERK_T5	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
12/4/2024 18:39	64802	MONE_T2	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
12/4/2024 18:39	45502	DERR_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
12/4/2024 18:39	44801	EDAN_T2	1	1	0	0.1	0	-0.1	-0.32	-0.3	0	0	0	0	0	0
12/4/2024 18:39	66703	STRA_T1	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
12/4/2024 18:39	45501	DERR_T2	5	2	-3	0.26	0	-0.26	0	0	0	0	0	0	0	0
12/4/2024 18:39	64904	MILL_T1	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
12/4/2024 18:39	67002	STHI_T2	0	1	1	0	0.1	0.1	1.94	1.86	0	0	0	0	0	0
12/4/2024 18:39	63802	HEMP_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
12/4/2024 18:39	20401	ASHF_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/4/2024 18:39	63501	HEID_TBK1-2	28	34	6	0.16	0.21	0.05	-0.47	-0.36	1	1	0	900	900	0
12/4/2024 18:40	67702	WERN_T2	3	5	2	1.07	0	-1.07	0	0	0	0	0	0	0	0
12/4/2024 18:40	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:40	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:40	64904	MILL_T1	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
12/4/2024 18:40	61102	BERK_T5	0	0	0	0	0	0	0.51	0.48	1	1	0	300	300	0
12/4/2024 18:40	64101	REFR_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
12/4/2024 18:40	65207	PRIN_T4	3	3	0	3.3	2.15	-1.15	0	0	1	1	0	1200	1200	0
12/4/2024 18:40	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/4/2024 18:40	67001	STHI_T2	2	2	0	0.4	0.45	0.05	0.14	0.14	0	0	0	0	0	0
12/4/2024 18:40	61103	BERK_T5	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
12/4/2024 18:40	67002	STHI_T2	0	1	1	0	0.1	0.1	0.65	0.62	0	0	0	0	0	0
12/4/2024 18:40	49803	UNIV_T1	1	1	0	6.5	6.3	-0.2	-0.95	-0.93	0	0	0	0	0	0
12/4/2024 18:41	45802	HEGI_T2	45	47	2	1.34	1.39	0.05	0	0	0	0	0	0	0	0
12/4/2024 18:41	64101	REFR_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
12/4/2024 18:41	67702	WERN_T2	3	5	2	1.07	0	-1.07	0	0	0	0	0	0	0	0
12/4/2024 18:41	67402	WAKE_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
12/4/2024 18:41	61103	BERK_T5	0	0	0	0	0	0	0.07	0.1	0	0	0	0	0	0
12/4/2024 18:41	66703	STRA_T1	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
12/4/2024 18:41	57205	ROSS_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
12/4/2024 18:42	46203	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:42	64305	LINC_T1	0	0	0	0	0	0	-0.59	-0.49	0	0	0	0	0	0
12/4/2024 18:42	46506	LOHA_T1	3	3	0	0.9	2.7	1.8	0	0	0	0	0	0	0	0
12/4/2024 18:42	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
12/4/2024 18:42	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:42	65202	PRIN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/4/2024 18:42	53501	EVIL_T2	0	1	1	0	0.1	0.1	-1.51	-1.56	2	2	0	1200	1200	0
12/4/2024 18:42	63803	HEMP_T1	0	0	0	0	0	0	0.49	0.52	0	0	0	0	0	0
12/4/2024 18:42	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:42	64301	LINC_T1	0	0	0	0	0	0	-1.41	-1.35	0	0	0	0	0	0
12/4/2024 18:42	63804	HEMP_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
12/4/2024 18:42	57401	SPAN_T1	2	2	0	0.45	0.4	-0.05	-0.71	-0.7	1	1	0	600	600	0
12/4/2024 18:42	64701	LITI_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
12/4/2024 18:42	49803	UNIV_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
12/4/2024 18:42	67702	WERN_T2	3	5	2	1.07	0	-1.07	0	0	0	0	0	0	0	0
12/4/2024 18:42	65205	PRIN_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
12/4/2024 18:42	46206	DANV_T2	1	0	-1	0.1	0	-0.1	1.57	1.56	2	2	0	2100	2100	0
12/4/2024 18:42	49804	UNIV_T1	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
12/4/2024 18:42	64802	MONE_T2	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
12/4/2024 18:42	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:43	66701	STRA_T1	0	0	0	0	0	0	-0.02	-0.06	1	1	0	600	600	0
12/4/2024 18:43	67201	TEHI_T1	8	1	-7	0.19	0.1	-0.09	0.05	0.97	1	0	-1	900	0	-900
12/4/2024 18:43	64101	REFR_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
12/4/2024 18:43	66505	SMAN_T2	3	3	0	0.9	0.73	-0.17	0	0	0	0	0	0	0	0
12/4/2024 18:43	63501	HEID_TBK1-2	28	34	6	0.16	0.21	0.05	-0.47	-0.36	1	1	0	900	900	0
12/4/2024 18:43	67702	WERN_T2	3	5	2	1.07	0	-1.07	0	0	0	0	0	0	0	0
12/4/2024 18:43	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:43	67203	TEHI_T1	1	1	0	3.8	4	0.2	0	0	0	0	0	0	0	0
12/4/2024 18:44	42903	MIDD_T2	2	2	0	0.35	0.95	0.6	0	0	0	0	0	0	0	0
12/4/2024 18:44	40101	HUNT_T2	412	423	11	1.09	0.96	-0.13	-1.61	-1.62	0	0	0	0	0	0
12/4/2024 18:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:44	42901	MIDD_T2	1	1	0	0.8	0.8	0	-0.49	-0.49	0	0	0	0	0	0
12/4/2024 18:44	66702	STRA_T1	0	0	0	0	0	0	0.77	0.68	2	2	0	1500	1500	0
12/4/2024 18:44	61103	BERK_T5	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
12/4/2024 18:45	67402	WAKE_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
12/4/2024 18:45	64101	REFR_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
12/4/2024 18:45	61103	BERK_T5	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
12/4/2024 18:46	67402	WAKE_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
12/4/2024 18:46	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:46	64204	KINZ_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
12/4/2024 18:46	64203	KINZ_T1	6	3	-3	0.55	0.1	-0.45	-0.42	-0.36	1	1	0	600	600	0
12/4/2024 18:46	66703	STRA_T1	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
12/4/2024 18:46	40801	EXCH_T2	3	4	1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
12/4/2024 18:46	63501	HEID_TBK1-2	30	33	3	0.2	0.23	0.03	-0.47	-0.36	1	1	0	900	900	0
12/4/2024 18:46	40802	EXCH_T2	6	7	1	0.17	0.16	-0.01	-0.88	-0.89	0	0	0	0	0	0
12/4/2024 18:47	20401	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/4/2024 18:47	20403	ASHF_T2	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
12/4/2024 18:47	66703	STRA_T1	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
12/4/2024 18:48	63501	HEID_TBK1-2	30	33	3	0.2	0.23	0.03	-0.47	-0.36	1	1	0	900	900	0
12/4/2024 18:48	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:50	66505	SMAN_T2	3	3	0	0.4	0.73	0.33	0	0	0	0	0	0	0	0
12/4/2024 18:50	64904	MILL_T1	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
12/4/2024 18:50	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:52	65601	QVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 18:54	65601	QVIL_T2	0	1	1	0	0	0	-0.69	-0.77	1	1	0	900	900	0
12/4/2024 19:14	61001	DONV_T1	0	0	0	0	0	0	-0.05	0.04	0	0	0	0	0	0
12/4/2024 19:18	10705	CATA_T2	0	0	0	0	0	0	-0.87	-0.89	1	1	0	900	900	0
12/4/2024 19:18	10702	CATA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/4/2024 19:28	14602	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/4/2024 19:28	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2024 19:42	55507	HERS_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/4/2024 19:48	67401	WAKE_T2	0	0	0	0	0	0	-1.11	-1.12	0	0	0	0	0	0
12/4/2024 20:18	63804	HEMP_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
12/4/2024 20:18	63803	HEMP_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
12/5/2024 8:28	45502	DERR_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/5/2024 8:28	45501	DERR_T2	4	2	-2	0.48	0.2	-0.28	1.13	0.96	2	2	0	1800	1800	0
12/5/2024 8:48	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 8:49	65401	MARI_T1	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
12/5/2024 8:54	67605	WARW_T1	5	2	-3	0.28	0.45	0.17	83.96	83.96	0	0	0	0	0	0
12/5/2024 8:54	67605	WARW_T1	5	2	-3	0.28	0.45	0.17	83.96	83.96	0	0	0	0	0	0
12/5/2024 8:54	67605	WARW_T1	5	2	-3	0.28	0.45	0.17	83.96	83.96	0	0	0	0	0	0
12/5/2024 8:54	67605	WARW_T1	5	2	-3	0.28	0.45	0.17	83.96	83.96	0	0	0	0	0	0
12/5/2024 8:57	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 8:57	67605	WARW_T1	5	2	-3	0.28	0.45	0.17	0	0	0	0	0	0	0	0
12/5/2024 8:59	45802	HEGI_T2	13	11	-2	0.3	0.24	-0.06	0.21	0.25	1	1	0	900	900	0
12/5/2024 9:00	67503	WEWI_T2	1	6	5	8	7.4	-0.6	0.08	0.09	0	0	0	0	0	0
12/5/2024 9:00	67502	WEWI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/5/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
12/5/2024 9:01	45802	HEGI_T2	2	18	16	0.15	0.43	0.28	0.21	0.25	1	1	0	900	900	0
12/5/2024 9:03	52001	LING_T1	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
12/5/2024 9:07	58102	NEKI_T1	1	1	0	0.5	0.7	0.2	0.22	0.31	0	0	0	0	0	0
12/5/2024 9:08	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
12/5/2024 9:09	49802	UNIV_T2	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
12/5/2024 9:15	45501	DERR_T2	0	0	0	0	0	0	1.07	1.06	2	2	0	1800	1800	0
12/5/2024 9:16	63501	HEID_TBK1-2	0	0	0	0	0	0	0.1	0.13	1	1	0	900	900	0
12/5/2024 9:16	61503	EPET_T1	0	0	0	0	0	0	-1.08	-1.08	0	0	0	0	0	0
12/5/2024 9:20	14801	TREI_T2	2	0	-2	0.1	0	-0.1	1.23	1.17	0	0	0	0	0	0
12/5/2024 9:21	67002	STHI_T2	38	82	44	0.15	0.16	0.01	0.67	0.68	0	0	0	0	0	0
12/5/2024 9:21	67001	STHI_T2	248	277	29	0.17	0.18	0.01	0	0	0	0	0	0	0	0
12/5/2024 9:23	55101	WERT_T1	0	0	0	0	0	0	-1.05	-1.06	1	1	0	600	600	0
12/5/2024 9:23	44201	POIN_T1	206	177	-29	0.51	0.45	-0.06	-2.21	-1.55	2	2	0	2100	2100	0
12/5/2024 9:26	55101	WERT_T1	0	0	0	0	0	0	-1.05	-1.06	1	1	0	600	600	0
12/5/2024 9:29	61001	DONV_T1	0	0	0	0	0	0	-0.25	-0.21	0	0	0	0	0	0
12/5/2024 9:31	63601	LETO_T1	5	4	-1	0.66	0.15	-0.51	1.99	1.93	2	2	0	1800	1800	0
12/5/2024 9:34	64801	MONE_T2	5	22	17	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
12/5/2024 9:34	52403	GRPA_T2	1	11	10	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/5/2024 9:34	64802	MONE_T2	17	100	83	0.21	0.36	0.15	0	0	0	0	0	0	0	0
12/5/2024 9:34	52402	GRPA_T2	1	1	0	0.2	0.2	0	-0.65	-0.65	0	0	0	0	0	0
12/5/2024 9:35	64801	MONE_T2	5	22	17	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
12/5/2024 9:35	64802	MONE_T2	17	100	83	0.21	0.36	0.15	0.21	0.23	0	0	0	0	0	0
12/5/2024 9:37	57201	ROSS_T1	0	0	0	0	0	0	-0.57	-0.55	0	0	0	0	0	0
12/5/2024 9:40	57205	ROSS_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
12/5/2024 9:48	53902	HALI_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
12/5/2024 9:48	40101	HUNT_T2	44	30	-14	0.37	0.37	0	-1.5	-1.49	0	0	0	0	0	0
12/5/2024 9:48	53903	HALI_T2	2	2	0	1.5	1.5	0	0	0	0	0	0	0	0	0
12/5/2024 9:48	53901	HALI_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
12/5/2024 9:50	65601	QVIL_T2	0	0	0	0	0	0	-1.06	-0.99	1	1	0	900	900	0
12/5/2024 9:50	65602	QVIL_T2	0	13	13	0	0.22	0.22	0	0	0	0	0	0	0	0
12/5/2024 9:51	55002	NEWP_T1	5	6	1	0.36	0.48	0.12	-0.2	-0.18	0	0	0	0	0	0
12/5/2024 9:52	65602	QVIL_T2	0	13	13	0	0.22	0.22	0	0	0	0	0	0	0	0
12/5/2024 9:52	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 9:53	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 9:56	65901	SAKR_T2	1	1	0	7.7	8	0.3	0	0	0	0	0	0	0	0
12/5/2024 9:56	65902	SAKR_T2	0	0	0	0	0	0	-0.12	-0.03	1	1	0	300	300	0
12/5/2024 9:57	46005	BERW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 9:57	46001	BERW_T1	0	0	0	0	0	0	0.96	0.96	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/5/2024 9:59	54601	SUMM_T2	3	4	1	0.3	0.28	-0.02	0	0	2	2	0	2100	2100	0
12/5/2024 10:01	61506	EPET_T2	0	0	0	0	0	0	-1.17	-1.15	1	1	0	900	900	0
12/5/2024 10:05	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
12/5/2024 10:06	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.15	0	0	0	0	0	0
12/5/2024 10:07	64101	REFR_T1	0	0	0	0	0	0	-0.16	-0.3	0	0	0	0	0	0
12/5/2024 10:08	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.23	0	0	0	0	0	0
12/5/2024 10:08	67605	WARW_T1	1	24	23	0.4	0.33	-0.07	83.96	83.96	0	0	0	0	0	0
12/5/2024 10:09	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.08	0	0	0	0	0	0
12/5/2024 10:12	45501	DERR_T2	0	2	2	0	0	0	1.04	1.03	2	2	0	1800	1800	0
12/5/2024 10:12	45502	DERR_T2	3	3	0	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
12/5/2024 10:13	45802	HEGI_T2	3	38	35	0.53	0.6	0.07	0.21	0.27	1	1	0	900	900	0
12/5/2024 10:15	53502	EVIL_T2	1	11	10	2.8	1.9	-0.9	0	0	0	0	0	0	0	0
12/5/2024 10:15	53501	EVIL_T2	1	2	1	0.2	0.3	0.1	-1.17	-1.19	2	2	0	1200	1200	0
12/5/2024 10:20	13904	SEID_T1	5	3	-2	0.14	0	-0.14	0	0	0	0	0	0	0	0
12/5/2024 10:20	13901	SEID_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/5/2024 10:21	66502	SMAN_T2	5	18	13	0.2	0.21	0.01	0	0	0	0	0	0	0	0
12/5/2024 10:21	66504	SMAN_T2	2	1	-1	0.5	1.1	0.6	0	0	0	0	0	0	0	0
12/5/2024 10:21	66505	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/5/2024 10:21	66503	SMAN_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
12/5/2024 10:21	66501	SMAN_T2	2	2	0	0.35	1.05	0.7	0	0	0	0	0	0	0	0
12/5/2024 10:21	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 10:22	66504	SMAN_T2	2	1	-1	0.5	1.1	0.6	-0.59	-0.96	0	0	0	0	0	0
12/5/2024 10:22	66502	SMAN_T2	5	18	13	0.2	0.21	0.01	0	0	0	0	0	0	0	0
12/5/2024 10:22	66505	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/5/2024 10:22	66501	SMAN_T2	2	2	0	0.35	1.05	0.7	0	0	0	0	0	0	0	0
12/5/2024 10:23	66505	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/5/2024 10:23	66501	SMAN_T2	2	2	0	0.35	1.05	0.7	0	0	0	0	0	0	0	0
12/5/2024 10:23	66504	SMAN_T2	2	1	-1	0.5	1.1	0.6	-0.2	-0.32	0	0	0	0	0	0
12/5/2024 10:23	66502	SMAN_T2	5	18	13	0.2	0.21	0.01	0	0	0	0	0	0	0	0
12/5/2024 10:24	66501	SMAN_T2	2	2	0	0.35	1.05	0.7	0	0	0	0	0	0	0	0
12/5/2024 10:24	66505	SMAN_T2	0	1	1	0	0.4	0.4	0.04	-0.17	1	1	0	900	900	0
12/5/2024 10:24	66504	SMAN_T2	2	1	-1	0.5	1.1	0.6	-0.2	-0.32	0	0	0	0	0	0
12/5/2024 10:24	66502	SMAN_T2	5	18	13	0.2	0.21	0.01	0	0	0	0	0	0	0	0
12/5/2024 10:25	58102	NEKI_T1	1	1	0	0.5	0.5	0	0.34	0.36	0	0	0	0	0	0
12/5/2024 10:29	63501	HEID_TBK1-2	1	5	4	0.4	0.22	-0.18	0.12	0.25	1	1	0	900	900	0
12/5/2024 10:31	63501	HEID_TBK1-2	5	1	-4	0.22	0.2	-0.02	0.24	0.49	2	2	0	1800	1800	0
12/5/2024 10:33	60502	NMAN_T2	1	1	0	0.2	0	-0.2	-0.12	-0.16	0	0	0	0	0	0
12/5/2024 10:33	60504	NMAN_T2	4	3	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
12/5/2024 10:33	60501	NMAN_T2	17	1	-16	0.19	0.6	0.41	0	0	0	0	0	0	0	0
12/5/2024 10:33	54506	ENOL_T2	0	0	0	0	0	0	0.39	0.35	1	1	0	600	600	0
12/5/2024 10:33	54505	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/5/2024 10:35	60501	NMAN_T2	17	1	-16	0.19	0.6	0.41	0	0	0	0	0	0	0	0
12/5/2024 10:35	60504	NMAN_T2	4	3	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
12/5/2024 10:35	60502	NMAN_T2	1	1	0	0.2	0	-0.2	-0.12	-0.16	0	0	0	0	0	0
12/5/2024 10:35	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 10:36	44901	SCOT_T2	0	0	0	0	0	0	0.2	0.31	0	0	0	0	0	0
12/5/2024 10:36	44902	SCOT_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/5/2024 10:38	60504	NMAN_T2	4	3	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
12/5/2024 10:38	60502	NMAN_T2	1	1	0	0.2	0	-0.2	-0.16	-0.19	0	0	0	0	0	0
12/5/2024 10:38	60501	NMAN_T2	17	1	-16	0.19	0.6	0.41	0	0	0	0	0	0	0	0
12/5/2024 10:41	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 10:42	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 10:42	10901	COOP_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/5/2024 10:42	10903	COOP_T2	0	1	1	0	0.4	0.4	0.03	0.13	1	1	0	600	600	0
12/5/2024 10:44	65503	MOJO_T2	164	60	-104	0.24	0.21	-0.03	-1.22	-0.78	0	0	0	0	0	0
12/5/2024 10:44	51102	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 10:44	51108	CARL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/5/2024 10:44	51101	CARL_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
12/5/2024 10:44	10801	CHHI_T1	0	2	2	0	0.5	0.5	-1.21	-1.2	2	2	0	1500	1500	0
12/5/2024 10:44	12006	HATF_T1	2	2	0	1.4	1	-0.4	0.56	0.56	1	1	0	1200	1200	0
12/5/2024 10:44	65502	MOJO_T2	201	1	-200	0.13	0.1	-0.03	0.15	0.03	0	0	0	0	0	0
12/5/2024 10:44	14203	EALL_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/5/2024 10:44	14201	EALL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 10:46	63501	HEID_TBK1-2	0	1	1	0	0.5	0.5	0.25	0.08	1	1	0	900	900	0
12/5/2024 10:47	63501	HEID_TBK1-2	0	1	1	0	0.5	0.5	0.25	0.08	1	1	0	900	900	0
12/5/2024 10:48	65503	MOJO_T2	60	7	-53	0.21	0	-0.21	0	0	0	0	0	0	0	0
12/5/2024 10:48	65502	MOJO_T2	1	0	-1	0.1	0	-0.1	0.15	0.03	0	0	0	0	0	0
12/5/2024 10:52	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.08	0	0	0	0	0	0
12/5/2024 10:52	44902	SCOT_T2	1	1	0	0.3	0	-0.3	-0.86	-0.84	0	0	0	0	0	0
12/5/2024 10:54	61103	BERK_T5	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
12/5/2024 10:55	61103	BERK_T5	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
12/5/2024 10:56	61103	BERK_T5	0	0	0	0	0	0	0.08	0.15	0	0	0	0	0	0
12/5/2024 10:57	61103	BERK_T5	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
12/5/2024 11:00	41602	CLEV_T1	84	0	-84	7.68	0	-7.68	0	0	0	0	0	0	0	0
12/5/2024 11:00	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 11:01	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 11:01	41602	CLEV_T1	84	0	-84	7.68	0	-7.68	0	0	0	0	0	0	0	0
12/5/2024 11:10	17002	RIRO_T2	53	53	0	0.2	0.22	0.02	0.67	0.66	0	0	0	0	0	0
12/5/2024 11:12	10805	CHHI_T2	7	6	-1	2.16	7.8	5.64	-0.66	-0.94	1	1	0	600	600	0
12/5/2024 11:17	44801	EDAN_T2	50	26	-24	0.74	0.71	-0.03	0.02	-0.01	0	0	0	0	0	0
12/5/2024 11:19	58202	NEWV_T1	0	0	0	0	0	0	0.26	0.22	0	0	0	0	0	0
12/5/2024 11:20	66703	STRA_T1	0	0	0	0	0	0	-0.72	-0.67	0	0	0	0	0	0
12/5/2024 11:20	66701	STRA_T1	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
12/5/2024 11:21	66701	STRA_T1	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
12/5/2024 11:21	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 11:22	66701	STRA_T1	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
12/5/2024 11:22	67603	WARW_T1	0	0	0	0	0	0	-1.03	-0.99	0	0	0	0	0	0
12/5/2024 11:22	67605	WARW_T1	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
12/5/2024 11:22	66703	STRA_T1	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
12/5/2024 11:23	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/5/2024 11:23	67402	WAKE_T2	0	0	0	0	0	0	0.46	0.44	1	1	0	600	600	0
12/5/2024 11:24	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/5/2024 11:24	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 11:24	67605	WARW_T1	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
12/5/2024 11:24	67402	WAKE_T2	0	0	0	0	0	0	0.46	0.44	1	1	0	600	600	0
12/5/2024 11:24	67702	WERN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 11:25	60301	TWVA_T2	0	0	0	0	0	0	-1.87	-1.91	2	2	0	1800	1800	0
12/5/2024 11:28	10805	CHHI_T2	1	6	5	7.9	1.68	-6.22	-0.94	-1.01	1	1	0	600	600	0
12/5/2024 11:29	67702	WERN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 11:37	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 11:38	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/5/2024 11:38	52402	GRPA_T2	0	7	7	0	0.5	0.5	-0.74	-0.73	0	0	0	0	0	0
12/5/2024 11:38	52401	GRPA_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
12/5/2024 11:38	52403	GRPA_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
12/5/2024 11:39	66703	STRA_T1	0	0	0	0	0	0	-0.67	-0.58	0	0	0	0	0	0
12/5/2024 11:39	66701	STRA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/5/2024 11:40	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 11:40	10705	CATA_T2	0	0	0	0	0	0	-0.87	-0.85	1	1	0	900	900	0
12/5/2024 11:40	66701	STRA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/5/2024 11:41	46203	DANV_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
12/5/2024 11:45	45502	DERR_T2	0	23	23	0	0.52	0.52	0.24	0.26	0	0	0	0	0	0
12/5/2024 11:45	45501	DERR_T2	0	5	5	0	0.42	0.42	0	0	0	0	0	0	0	0
12/5/2024 11:46	10801	CHHI_T1	0	0	0	0	0	0	-1.16	-1.16	2	2	0	1500	1500	0
12/5/2024 11:51	64305	LINC_T1	0	0	0	0	0	0	-0.19	-0.28	0	0	0	0	0	0
12/5/2024 11:53	47403	PENS_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
12/5/2024 11:53	47401	PENS_T1	1	4	3	0.1	0.55	0.45	-0.99	-0.55	0	0	0	0	0	0
12/5/2024 11:59	53502	EVIL_T2	12	1	-11	1.58	0	-1.58	0.19	-0.18	2	2	0	1200	1200	0
12/5/2024 11:59	53501	EVIL_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
12/5/2024 12:06	55002	NEWP_T1	4	8	4	0.33	0.96	0.63	-0.18	-0.19	0	0	0	0	0	0
12/5/2024 12:07	67402	WAKE_T2	0	0	0	0	0	0	0.43	0.44	1	1	0	600	600	0
12/5/2024 12:08	11507	FREE_T2	1	2	1	0.2	0	-0.2	2.28	2.19	0	0	0	0	0	0
12/5/2024 12:09	52402	GRPA_T2	6	5	-1	0.55	0.76	0.21	0	0	0	0	0	0	0	0
12/5/2024 12:09	52403	GRPA_T2	1	4	3	1.8	0.5	-1.3	-0.04	-0.04	0	0	0	0	0	0
12/5/2024 12:09	52404	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
12/5/2024 12:09	52401	GRPA_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/5/2024 12:10	51109	CARL_T1	1	1	0	1.7	0	-1.7	0	0	0	0	0	0	0	0
12/5/2024 12:10	51101	CARL_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
12/5/2024 12:10	51108	CARL_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
12/5/2024 12:10	51104	CARL_T1	1	0	-1	5.3	0	-5.3	0	0	0	0	0	0	0	0
12/5/2024 12:10	51102	CARL_T1	1	4	3	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
12/5/2024 12:10	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 12:12	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 12:12	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/5/2024 12:13	46203	DANV_T2	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
12/5/2024 12:14	51102	CARL_T1	1	4	3	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
12/5/2024 12:14	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/5/2024 12:14	51104	CARL_T1	1	0	-1	5.3	0	-5.3	0	0	0	0	0	0	0	0
12/5/2024 12:14	51109	CARL_T1	1	1	0	1.7	0	-1.7	-0.93	-0.92	1	1	0	1200	1200	0
12/5/2024 12:14	46203	DANV_T2	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
12/5/2024 12:14	51101	CARL_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
12/5/2024 12:14	51108	CARL_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
12/5/2024 12:16	20601	GRWO_T2	34	1	-33	0.46	0	-0.46	0	0	0	0	0	0	0	0
12/5/2024 12:16	20603	GRWO_T2	0	8	8	0	0.19	0.19	-0.49	-0.54	1	1	0	900	900	0
12/5/2024 12:22	55101	WERT_T1	0	0	0	0	0	0	-1.07	-1.11	1	1	0	600	600	0
12/5/2024 12:42	51102	CARL_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
12/5/2024 12:42	51109	CARL_T1	0	0	0	0	0	0	-0.92	-0.95	1	1	0	1200	1200	0
12/5/2024 12:42	51108	CARL_T1	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
12/5/2024 12:42	51101	CARL_T1	1	2	1	5.6	6.1	0.5	0	0	0	0	0	0	0	0
12/5/2024 12:43	44801	EDAN_T2	9	11	2	0.99	0.93	-0.06	-0.03	-0.02	0	0	0	0	0	0
12/5/2024 12:45	53903	HALI_T2	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0	0
12/5/2024 12:45	53901	HALI_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
12/5/2024 12:45	53902	HALI_T2	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
12/5/2024 12:46	40101	HUNT_T2	7	9	2	0.43	0.5	0.07	-1.62	-1.6	0	0	0	0	0	0
12/5/2024 12:48	59301	MCAL_T1	2	2	0	0.1	0.1	0	-1.9	-1.68	1	1	0	600	600	0
12/5/2024 12:48	40101	HUNT_T2	7	9	2	0.43	0.5	0.07	-1.62	-1.6	0	0	0	0	0	0
12/5/2024 12:49	40101	HUNT_T2	7	9	2	0.43	0.5	0.07	-1.62	-1.6	0	0	0	0	0	0
12/5/2024 12:50	59301	MCAL_T1	2	2	0	0.1	0.1	0	-1.9	-1.68	1	1	0	600	600	0
12/5/2024 12:50	58401	MORO_T1	0	0	0	0	0	0	-0.96	-0.89	1	1	0	600	600	0
12/5/2024 12:52	58401	MORO_T1	0	0	0	0	0	0	-0.89	-0.93	1	1	0	600	600	0
12/5/2024 12:52	51201	MTON_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 12:53	53901	HALI_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
12/5/2024 12:53	53903	HALI_T2	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0	0
12/5/2024 12:53	53902	HALI_T2	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/5/2024 12:54	60502	NMAN_T2	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
12/5/2024 12:54	44801	EDAN_T2	9	11	2	1.08	0.86	-0.22	-0.02	-0.05	0	0	0	0	0	0
12/5/2024 12:55	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 12:56	46206	DANV_T2	0	155	155	0	0	0	1.4	1.41	2	2	0	2100	2100	0
12/5/2024 12:58	12704	MACU_T1	0	0	0	0	0	0	-0.96	-0.92	0	0	0	0	0	0
12/5/2024 12:59	52403	GRPA_T2	1	2	1	0.8	0	-0.8	-0.05	-0.03	0	0	0	0	0	0
12/5/2024 12:59	52402	GRPA_T2	4	4	0	0.83	0.93	0.1	0	0	0	0	0	0	0	0
12/5/2024 12:59	52404	GRPA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/5/2024 13:00	46206	DANV_T2	0	0	0	0	0	0	2.8	2.81	4	4	0	4200	4200	0
12/5/2024 13:00	54504	ENOL_T2	0	0	0	0	0	0	-1	-1.03	1	1	0	600	600	0
12/5/2024 13:00	54505	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/5/2024 13:02	44801	EDAN_T2	11	7	-4	0.88	0.96	0.08	-0.02	-0.05	0	0	0	0	0	0
12/5/2024 13:05	57304	MOAL_T2	0	1	1	0	0	0	0.1	0.06	0	0	0	0	0	0
12/5/2024 13:05	57303	MOAL_T2	1	1	0	8	8	0	0	0	0	0	0	0	0	0
12/5/2024 13:07	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 13:08	43301	WATS_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/5/2024 13:08	43304	WATS_T2	0	8	8	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 13:09	43304	WATS_T2	0	8	8	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 13:09	43301	WATS_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/5/2024 13:10	43304	WATS_T2	0	8	8	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 13:10	43301	WATS_T2	1	1	0	0.4	0.5	0.1	-0.06	-0.12	0	0	0	0	0	0
12/5/2024 13:11	43304	WATS_T2	0	8	8	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 13:11	43301	WATS_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/5/2024 13:18	43103	SMIL_T2	4	4	0	0.53	0.33	-0.2	0	0	0	0	0	0	0	0
12/5/2024 13:18	43102	SMIL_T2	6	6	0	0.58	0.65	0.07	-0.79	-0.79	1	1	0	600	600	0
12/5/2024 13:18	43105	SMIL_T2	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0	0
12/5/2024 13:24	11301	EMMA_T1	0	0	0	0	0	0	-0.71	-0.63	0	0	0	0	0	0
12/5/2024 13:25	49804	UNIV_T1	0	0	0	0	0	0	0.61	0.56	0	0	0	0	0	0
12/5/2024 13:25	49803	UNIV_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
12/5/2024 13:28	54504	ENOL_T2	0	0	0	0	0	0	-1	-1.02	1	1	0	600	600	0
12/5/2024 13:28	54505	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/5/2024 13:33	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
12/5/2024 13:33	53901	HALI_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/5/2024 13:33	53903	HALI_T2	2	2	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
12/5/2024 13:34	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.22	0	0	0	0	0	0
12/5/2024 13:35	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/5/2024 13:35	52404	GRPA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/5/2024 13:35	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.22	0	0	0	0	0	0
12/5/2024 13:35	52402	GRPA_T2	3	3	0	0.97	0.6	-0.37	0	0	0	0	0	0	0	0
12/5/2024 13:35	52403	GRPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 13:36	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 13:36	46206	DANV_T2	0	1	1	0	1.3	1.3	1.52	1.5	2	2	0	2100	2100	0
12/5/2024 13:40	46206	DANV_T2	0	1	1	0	1.3	1.3	1.5	1.3	2	2	0	2100	2100	0
12/5/2024 13:40	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 13:40	54601	SUMM_T2	4	3	-1	0.25	0.47	0.22	0	0	2	2	0	2100	2100	0
12/5/2024 13:44	40701	FFLD_T1	36	41	5	0.71	0.68	-0.03	0	0	0	0	0	0	0	0
12/5/2024 13:44	40702	FFLD_T1	38	97	59	0.21	0.28	0.07	0	0	0	0	0	0	0	0
12/5/2024 13:44	40703	FFLD_T1	4	4	0	0.63	0.73	0.1	0	0	0	0	0	0	0	0
12/5/2024 13:45	53902	HALI_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
12/5/2024 13:45	53903	HALI_T2	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
12/5/2024 13:45	53901	HALI_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
12/5/2024 13:45	53502	EVIL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
12/5/2024 13:45	53501	EVIL_T2	2	1	-1	0.2	0.2	0	-1.21	-1.23	2	2	0	1200	1200	0
12/5/2024 13:46	53902	HALI_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
12/5/2024 13:46	53901	HALI_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
12/5/2024 13:46	53903	HALI_T2	2	2	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
12/5/2024 13:48	67702	WEIN_T2	2	1	-1	0.15	0.9	0.75	0	0	0	0	0	0	0	0
12/5/2024 13:49	52102	MEIS_T1	0	3	3	0	0.3	0.3	0	0	1	1	0	450	450	0
12/5/2024 13:49	55002	NEWP_T1	7	5	-2	0.89	0.58	-0.31	-0.1	-0.08	0	0	0	0	0	0
12/5/2024 13:51	47401	PENS_T1	2	0	-2	0.65	0	-0.65	-0.98	-0.94	0	0	0	0	0	0
12/5/2024 13:51	47402	PENS_T1	1	3	2	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
12/5/2024 13:51	47403	PENS_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/5/2024 13:52	16301	ALPA_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
12/5/2024 13:54	16301	ALPA_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
12/5/2024 13:56	13101	NHAM_T1	0	0	0	0	0	0	-2.76	-2.71	2	2	0	2400	2400	0
12/5/2024 13:56	16301	ALPA_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
12/5/2024 13:58	10705	CATA_T2	0	0	0	0	0	0	-3.45	-3.28	4	4	0	3600	3600	0
12/5/2024 13:58	10702	CATA_T2	0	1	1	0	0.1	0.1	-0.75	-0.77	0	0	0	0	0	0
12/5/2024 14:00	10702	CATA_T2	0	1	1	0	0.5	0.5	-0.75	-0.77	0	0	0	0	0	0
12/5/2024 14:00	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 14:07	67605	WARW_T1	1	1	0	0.5	0.4	-0.1	83.96	83.96	0	0	0	0	0	0
12/5/2024 14:31	67402	WAKE_T2	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
12/5/2024 14:36	42902	MIDD_T2	0	0	0	0	0	0	-0.63	-0.68	1	1	0	600	600	0
12/5/2024 14:36	47402	PENS_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/5/2024 14:36	47401	PENS_T1	0	3	3	0	0.47	0.47	-0.95	-0.98	0	0	0	0	0	0
12/5/2024 14:36	47403	PENS_T1	1	1	0	0.4	1.6	1.2	0	0	0	0	0	0	0	0
12/5/2024 14:36	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 14:37	47402	PENS_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/5/2024 14:37	47403	PENS_T1	1	1	0	0.4	1.6	1.2	0	0	0	0	0	0	0	0
12/5/2024 14:37	47401	PENS_T1	0	3	3	0	0.47	0.47	-0.98	-1.05	0	0	0	0	0	0
12/5/2024 14:38	47403	PENS_T1	1	1	0	0.4	1.6	1.2	0	0	0	0	0	0	0	0
12/5/2024 14:38	47402	PENS_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/5/2024 14:38	47401	PENS_T1	0	3	3	0	0.47	0.47	-0.98	-1.05	0	0	0	0	0	0
12/5/2024 14:53	55002	NEWP_T1	4	5	1	0.3	0.46	0.16	-0.07	-0.07	0	0	0	0	0	0
12/5/2024 14:53	67106	SPRI_T2	0	0	0	0	0	0	167.92	167.92	2	2	0	1800	1800	0
12/5/2024 14:59	46203	DANV_T2	0	0	0	0	0	0	-0.89	-1	0	0	0	0	0	0
12/5/2024 15:06	67106	SPRI_T2	0	0	0	0	0	0	83.96	83.96	1	1	0	900	900	0
12/5/2024 15:07	44502	HAMI_T2	2	2	0	2	2.5	0.5	0.03	0.03	0	0	0	0	0	0
12/5/2024 15:10	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 15:11	45501	DERR_T2	0	3	3	0	0.53	0.53	0.91	0.99	2	2	0	1800	1800	0
12/5/2024 15:11	45502	DERR_T2	5	7	2	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
12/5/2024 15:15	51109	CARL_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
12/5/2024 15:15	51102	CARL_T1	1	2	1	1.6	0.75	-0.85	0	0	0	0	0	0	0	0
12/5/2024 15:15	51101	CARL_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
12/5/2024 15:15	51108	CARL_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/5/2024 15:15	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 15:15	45501	DERR_T2	0	3	3	0	0.6	0.6	0.91	0.99	2	2	0	1800	1800	0
12/5/2024 15:15	45502	DERR_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
12/5/2024 15:17	45802	HEGI_T2	38	43	5	0.61	0.8	0.19	0.03	0.03	1	1	0	900	900	0
12/5/2024 15:34	64701	LITI_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
12/5/2024 15:39	44502	HAMI_T2	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
12/5/2024 15:39	44504	HAMI_T2	0	0	0	0	0	0	-0.94	-0.98	0	0	0	0	0	0
12/5/2024 15:39	66701	STRA_T1	0	0	0	0	0	0	-0.08	-0.07	1	1	0	600	600	0
12/5/2024 15:41	66701	STRA_T1	0	0	0	0	0	0	-0.08	-0.07	1	1	0	600	600	0
12/5/2024 15:47	65502	MOJO_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
12/5/2024 15:47	65503	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/5/2024 15:49	41902	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 15:49	64203	KINZ_T1	0	0	0	0	0	0	-0.52	-0.54	3	3	0	2100	2100	0
12/5/2024 15:49	41901	REED_T1	5	8	3	0.24	0.33	0.09	0	0	0	0	0	0	0	0
12/5/2024 15:49	41903	REED_T1	0	0	0	0	0	0	0.03	-0.05	1	1	0	1200	1200	0
12/5/2024 15:49	64204	KINZ_T1	1	1	0	1.1	0.2	-0.9	0	0	0	0	0	0	0	0
12/5/2024 17:22	55002	NEWP_T1	1	3	2	0.1	0.37	0.27	-0.03	-0.11	0	0	0	0	0	0
12/5/2024 17:39	53502	EVIL_T2	0	0	0	0	0	0	-0.36	-0.45	2	2	0	1200	1200	0
12/5/2024 17:39	53501	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/5/2024 18:32	16301	ALPA_T1	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
12/5/2024 18:34	10805	CHHI_T2	13	7	-6	2.83	1.6	-1.23	0	0	1	1	0	600	600	0
12/5/2024 18:34	40101	HUNT_T2	543	526	-17	1.63	1.33	-0.3	-1.43	-1.44	0	0	0	0	0	0
12/5/2024 18:34	17002	RIRO_T2	17	10	-7	0.14	0.11	-0.03	0.41	0.42	0	0	0	0	0	0
12/5/2024 18:35	44801	EDAN_T2	2	2	0	1.1	0	-1.1	-0.31	-0.29	0	0	0	0	0	0
12/5/2024 18:36	14201	EALL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:36	44901	SCOT_T2	0	0	0	0	0	0	-0.04	0.11	0	0	0	0	0	0
12/5/2024 18:36	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:37	55002	NEWP_T1	1	3	2	0.2	0.47	0.27	-0.1	-0.12	0	0	0	0	0	0
12/5/2024 18:38	66504	SMAN_T2	0	0	0	0	0	0	-2.96	-3.01	2	2	0	2400	2400	0
12/5/2024 18:38	11301	EMMA_T1	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
12/5/2024 18:38	61103	BERK_T5	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
12/5/2024 18:38	66505	SMAN_T2	4	4	0	0.48	0.57	0.09	0	0	0	0	0	0	0	0
12/5/2024 18:38	11302	EMMA_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:38	10705	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:40	47402	PENS_T1	6	3	-3	1.38	0.2	-1.18	0	0	0	0	0	0	0	0
12/5/2024 18:40	47401	PENS_T1	0	0	0	0	0	0	-0.95	-0.98	0	0	0	0	0	0
12/5/2024 18:40	64701	LITI_T1	0	0	0	0	0	0	0.39	0.25	0	0	0	0	0	0
12/5/2024 18:40	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
12/5/2024 18:40	67106	SPRI_T2	0	0	0	0	0	0	83.96	83.96	1	1	0	900	900	0
12/5/2024 18:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:41	41602	CLEV_T1	1	47	46	0.1	0.28	0.18	0	0	0	0	0	0	0	0
12/5/2024 18:42	40101	HUNT_T2	543	526	-17	1.63	1.33	-0.3	-1.44	-1.42	0	0	0	0	0	0
12/5/2024 18:42	63501	HEID_TBK1-2	0	4	4	0	0.15	0.15	-1.23	-1.2	3	3	0	2700	2700	0
12/5/2024 18:42	14801	TREI_T2	1	0	-1	0.2	0	-0.2	1.71	1.63	0	0	0	0	0	0
12/5/2024 18:42	20601	GRWO_T2	3	3	0	0.73	0.73	0	0	0	0	0	0	0	0	0
12/5/2024 18:42	61503	EPET_T1	0	0	0	0	0	0	-1.01	-0.99	0	0	0	0	0	0
12/5/2024 18:42	13901	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:42	10705	CATA_T2	0	1	1	0	0	0	-0.84	-0.79	1	1	0	900	900	0
12/5/2024 18:42	10702	CATA_T2	0	0	0	0	0	0	-0.85	-0.84	0	0	0	0	0	0
12/5/2024 18:42	16301	ALPA_T1	0	0	0	0	0	0	0.19	0.24	0	0	0	0	0	0
12/5/2024 18:42	11507	FREE_T2	95	117	22	0.53	0.47	-0.06	2.72	2.63	0	0	0	0	0	0
12/5/2024 18:42	20603	GRWO_T2	13	24	11	0.36	0.29	-0.07	0.55	0.56	0	0	0	0	0	0
12/5/2024 18:42	13904	SEID_T1	33	40	7	1.38	1.49	0.11	0	0	0	0	0	0	0	0
12/5/2024 18:42	66701	STRA_T1	0	2	2	0	0.3	0.3	-0.11	-0.11	1	1	0	600	600	0
12/5/2024 18:42	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:43	44905	SCOT_T1	2	27	25	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
12/5/2024 18:43	43304	WATS_T2	31	18	-13	0.54	0.38	-0.16	0	0	0	0	0	0	0	0
12/5/2024 18:43	44502	HAMI_T2	1	1	0	2	1.8	-0.2	0.03	0.02	0	0	0	0	0	0
12/5/2024 18:43	43301	WATS_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
12/5/2024 18:43	40101	HUNT_T2	543	526	-17	1.63	1.33	-0.3	-1.44	-1.42	0	0	0	0	0	0
12/5/2024 18:44	44902	SCOT_T2	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
12/5/2024 18:44	13104	NHAM_T1	4	1	-3	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
12/5/2024 18:44	66503	SMAN_T2	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
12/5/2024 18:44	61103	BERK_T5	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
12/5/2024 18:44	61506	EPET_T2	0	0	0	0	0	0	-1.15	-1.13	1	1	0	900	900	0
12/5/2024 18:44	10801	CHHI_T1	0	3	3	0	1.1	1.1	0	0	2	2	0	1500	1500	0
12/5/2024 18:44	13101	NHAM_T1	1	10	9	0.1	0.24	0.14	-2.69	-2.52	2	2	0	2400	2400	0
12/5/2024 18:44	10903	COOP_T2	0	0	0	0	0	0	-0.11	-0.02	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/5/2024 18:44	16301	ALPA_T1	0	0	0	0	0	0	0.19	0.24	0	0	0	0	0	0
12/5/2024 18:44	67001	STHI_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
12/5/2024 18:44	66505	SMAN_T2	4	4	0	0.48	0.57	0.09	0	0	0	0	0	0	0	0
12/5/2024 18:44	67002	STHI_T2	0	0	0	0	0	0	0.65	0.67	0	0	0	0	0	0
12/5/2024 18:44	55002	NEWP_T1	1	3	2	0.2	0.47	0.27	-0.1	-0.12	0	0	0	0	0	0
12/5/2024 18:44	40101	HUNT_T2	543	526	-17	1.63	1.33	-0.3	-1.44	-1.42	0	0	0	0	0	0
12/5/2024 18:44	64101	REFR_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
12/5/2024 18:45	45501	DERR_T2	0	4	4	0	0.8	0.8	0.73	0.72	2	2	0	1800	1800	0
12/5/2024 18:45	67106	SPRI_T2	0	0	0	0	0	0	83.96	83.96	1	1	0	900	900	0
12/5/2024 18:45	66504	SMAN_T2	0	0	0	0	0	0	-1.48	-1.5	1	1	0	1200	1200	0
12/5/2024 18:45	45502	DERR_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
12/5/2024 18:45	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
12/5/2024 18:45	61103	BERK_T5	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
12/5/2024 18:45	47401	PENS_T1	0	0	0	0	0	0	-0.95	-0.98	0	0	0	0	0	0
12/5/2024 18:45	66505	SMAN_T2	2	4	2	0.4	0.57	0.17	0	0	0	0	0	0	0	0
12/5/2024 18:45	47402	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/5/2024 18:46	45501	DERR_T2	6	5	-1	0.63	0.3	-0.33	0.73	0.72	2	2	0	1800	1800	0
12/5/2024 18:46	45502	DERR_T2	3	2	-1	0.67	0.25	-0.42	0	0	0	0	0	0	0	0
12/5/2024 18:46	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:46	58102	NEKI_T1	1	1	0	0.6	0.7	0.1	0.39	0.44	0	0	0	0	0	0
12/5/2024 18:46	10705	CATA_T2	0	1	1	0	0.2	0.2	-0.84	-0.79	1	1	0	900	900	0
12/5/2024 18:46	66505	SMAN_T2	2	4	2	0.4	0.57	0.17	0	0	0	0	0	0	0	0
12/5/2024 18:46	10702	CATA_T2	0	0	0	0	0	0	-0.85	-0.84	0	0	0	0	0	0
12/5/2024 18:46	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.22	0	0	0	0	0	0
12/5/2024 18:46	65503	MOJO_T2	0	0	0	0	0	0	-0.63	-0.23	1	0	-1	900	0	-900
12/5/2024 18:47	63601	LETO_T1	0	0	0	0	0	0	1.16	1.33	1	1	0	900	900	0
12/5/2024 18:47	51102	CARL_T1	34	45	11	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/5/2024 18:47	63501	HEID_TBK1-2	1	14	13	0.2	0.17	-0.03	-0.41	-0.4	1	1	0	900	900	0
12/5/2024 18:47	41602	CLEV_T1	6	46	40	0.25	0.33	0.08	0	0	0	0	0	0	0	0
12/5/2024 18:47	51109	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/5/2024 18:47	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.22	0	0	0	0	0	0
12/5/2024 18:47	67603	WARW_T1	0	0	0	0	0	0	-1.3	-1.28	0	0	0	0	0	0
12/5/2024 18:47	44201	POIN_T1	120	136	16	0.35	0.36	0.01	-2.49	-2.53	2	2	0	2100	2100	0
12/5/2024 18:47	51108	CARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/5/2024 18:47	51101	CARL_T1	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
12/5/2024 18:47	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:47	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:48	64101	REFR_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
12/5/2024 18:48	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:48	65502	MOJO_T2	0	0	0	0	0	0	-0.89	-0.95	0	0	0	0	0	0
12/5/2024 18:48	44903	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:48	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:48	53903	HALI_T2	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
12/5/2024 18:48	42902	MIDD_T2	5	28	23	0.72	0.85	0.13	0	0	0	0	0	0	0	0
12/5/2024 18:48	65601	OVIL_T2	0	0	0	0	0	0	-0.95	-0.9	1	1	0	900	900	0
12/5/2024 18:48	40703	FFLD_T1	4	4	0	0.38	0.58	0.2	0	0	0	0	0	0	0	0
12/5/2024 18:48	45501	DERR_T2	6	5	-1	0.63	0.3	-0.33	0.73	0.72	2	2	0	1800	1800	0
12/5/2024 18:48	53902	HALI_T2	1	1	0	5.4	5.5	0.1	-0.8	-0.79	0	0	0	0	0	0
12/5/2024 18:48	54601	SUMM_T2	0	0	0	0	0	0	0	0	2	2	0	2100	2100	0
12/5/2024 18:48	40701	FFLD_T1	30	42	12	0.45	0.56	0.11	0	0	0	0	0	0	0	0
12/5/2024 18:48	45502	DERR_T2	3	2	-1	0.67	0.25	-0.42	-0.56	-0.56	0	0	0	0	0	0
12/5/2024 18:48	40702	FFLD_T1	18	75	57	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
12/5/2024 18:48	66701	STRA_T1	1	5	4	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
12/5/2024 18:48	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:48	54506	ENOL_T2	0	0	0	0	0	0	0.33	0.32	0	1	1	0	600	600
12/5/2024 18:48	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:48	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/5/2024 18:48	44905	SCOT_T1	14	27	13	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
12/5/2024 18:48	42903	MIDD_T2	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/5/2024 18:48	10705	CATA_T2	0	1	1	0	0.2	0.2	-1.68	-1.59	2	2	0	1800	1800	0
12/5/2024 18:48	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:48	44801	EDAN_T2	0	2	2	0	0.3	0.3	-0.58	-0.66	0	0	0	0	0	0
12/5/2024 18:48	16301	ALPA_T1	0	0	0	0	0	0	0.19	0.24	0	0	0	0	0	0
12/5/2024 18:49	53903	HALI_T2	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
12/5/2024 18:49	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/5/2024 18:49	63601	LETO_T1	0	0	0	0	0	0	1.16	1.33	1	1	0	900	900	0
12/5/2024 18:49	66504	SMAN_T2	0	0	0	0	0	0	-1.48	-1.5	1	1	0	1200	1200	0
12/5/2024 18:49	59302	MCAL_T1	1	1	0	1.6	0.4	-1.2	0	0	0	0	0	0	0	0
12/5/2024 18:49	57205	ROSS_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
12/5/2024 18:49	64101	REFR_T1	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
12/5/2024 18:49	67702	WERN_T2	1	7	6	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
12/5/2024 18:49	43304	WATS_T2	17	15	-2	0.51	0.3	-0.21	0	0	0	0	0	0	0	0
12/5/2024 18:49	59301	MCAL_T1	0	2	2	0	0.4	0.4	-1.51	-1.49	0	0	0	0	0	0
12/5/2024 18:49	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:49	53902	HALI_T2	1	1	0	5.4	5.5	0.1	-0.8	-0.79	0	0	0	0	0	0
12/5/2024 18:49	67703	WERN_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
12/5/2024 18:49	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.22	0	0	0	0	0	0
12/5/2024 18:49	61103	BERK_T5	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
12/5/2024 18:49	66505	SMAN_T2	2	4	2	0.4	0.57	0.17	0	0	0	0	0	0	0	0
12/5/2024 18:50	66701	STRA_T1	1	5	4	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
12/5/2024 18:50	46203	DANV_T2	8	10	2	0.54	0.3	-0.24	-1.29	-0.36	0	0	0	0	0	0
12/5/2024 18:50	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:50	45501	DERR_T2	6	5	-1	0.63	0.3	-0.33	0.73	0.72	2	2	0	1800	1800	0
12/5/2024 18:50	43102	SMIL_T2	0	0	0	0	0	0	-0.82	-0.81	1	1	0	600	600	0
12/5/2024 18:50	43304	WATS_T2	17	15	-2	0.51	0.3	-0.21	0	0	0	0	0	0	0	0
12/5/2024 18:50	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.22	0	0	0	0	0	0
12/5/2024 18:50	43101	SMIL_T2	1	1	0	0.4	2.3	1.9	0	0	0	0	0	0	0	0
12/5/2024 18:50	67605	WARW_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
12/5/2024 18:50	10805	CHHI_T2	7	7	0	1.63	2.43	0.8	0	0	1	1	0	600	600	0
12/5/2024 18:50	45502	DERR_T2	3	2	-1	0.67	0.25	-0.42	0	0	0	0	0	0	0	0
12/5/2024 18:50	54601	SUMM_T2	0	0	0	0	0	0	0	0	2	2	0	2100	2100	0
12/5/2024 18:50	10801	CHHI_T1	1	3	2	1.1	0.4	-0.7	0	0	2	2	0	1500	1500	0
12/5/2024 18:51	67106	SPRI_T2	0	0	0	0	0	0	83.96	83.96	1	1	0	900	900	0
12/5/2024 18:51	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
12/5/2024 18:51	45802	HEGI_T2	22	60	38	0.49	1.27	0.78	-0.28	0.65	1	1	0	900	900	0
12/5/2024 18:51	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:51	53902	HALI_T2	1	1	0	5.4	5.5	0.1	-0.8	-0.79	0	0	0	0	0	0
12/5/2024 18:51	53903	HALI_T2	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
12/5/2024 18:51	46001	BERW_T1	2	1	-1	0.2	0	-0.2	0.91	1	0	0	0	0	0	0
12/5/2024 18:51	61103	BERK_T5	0	0	0	0	0	0	0.1	0.05	0	0	0	0	0	0
12/5/2024 18:51	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/5/2024 18:51	66505	SMAN_T2	2	4	2	0.4	0.57	0.17	0	0	0	0	0	0	0	0
12/5/2024 18:52	12003	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:52	66701	STRA_T1	1	5	4	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
12/5/2024 18:52	55101	WERT_T1	0	0	0	0	0	0	-1.36	-1.36	1	1	0	600	600	0
12/5/2024 18:52	12001	HATF_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
12/5/2024 18:52	12006	HATF_T1	2	2	0	2	1.7	-0.3	1.16	1.2	0	0	0	0	0	0
12/5/2024 18:52	63501	HEID_TBK1-2	1	14	13	0.2	0.17	-0.03	-0.4	-0.45	1	1	0	900	900	0
12/5/2024 18:52	66505	SMAN_T2	2	4	2	0.4	0.57	0.17	-0.32	-0.24	1	1	0	900	900	0
12/5/2024 18:52	66703	STRA_T1	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
12/5/2024 18:53	44801	EDAN_T2	0	2	2	0	0.3	0.3	-0.33	-0.3	0	0	0	0	0	0
12/5/2024 18:53	53902	HALI_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
12/5/2024 18:53	46203	DANV_T2	8	10	2	0.54	0.3	-0.24	0	0	0	0	0	0	0	0
12/5/2024 18:53	53903	HALI_T2	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
12/5/2024 18:53	43304	WATS_T2	17	15	-2	0.51	0.3	-0.21	0	0	0	0	0	0	0	0
12/5/2024 18:53	55002	NEWP_T1	3	4	1	0.43	0.4	-0.03	-0.12	-0.12	0	0	0	0	0	0
12/5/2024 18:53	41903	REED_T1	0	0	0	0	0	0	0.08	0.07	1	1	0	1200	1200	0
12/5/2024 18:53	54504	ENOL_T2	0	0	0	0	0	0	-0.92	-0.94	1	1	0	600	600	0
12/5/2024 18:53	41901	REED_T1	6	8	2	0.23	0.31	0.08	0	0	0	0	0	0	0	0
12/5/2024 18:53	46206	DANV_T2	0	0	0	0	0	0	1.52	1.48	2	2	0	2100	2100	0
12/5/2024 18:53	63501	HEID_TBK1-2	1	14	13	0.2	0.17	-0.03	-0.4	-0.45	1	1	0	900	900	0
12/5/2024 18:53	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/5/2024 18:53	41902	REED_T1	11	19	8	0.48	0.79	0.31	0	0	0	0	0	0	0	0
12/5/2024 18:53	55101	WERT_T1	0	0	0	0	0	0	-1.36	-1.36	1	1	0	600	600	0
12/5/2024 18:53	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:53	61001	DONV_T1	0	0	0	0	0	0	-0.21	-0.31	0	0	0	0	0	0
12/5/2024 18:53	59202	THOM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/5/2024 18:54	52403	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:54	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
12/5/2024 18:54	53902	HALI_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
12/5/2024 18:54	47401	PENS_T1	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
12/5/2024 18:54	52402	GRPA_T2	9	0	-9	0.33	0	-0.33	-0.67	-0.75	0	0	0	0	0	0
12/5/2024 18:54	67401	WAKE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:54	52401	GRPA_T2	16	7	-9	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
12/5/2024 18:54	64802	MONE_T2	0	0	0	0	0	0	0.03	0.09	0	0	0	0	0	0
12/5/2024 18:54	47402	PENS_T1	3	0	0	1.73	0.2	-1.53	0	0	0	0	0	0	0	0
12/5/2024 18:54	53901	HALI_T2	0	1	1	0	0.1	0.1	-1.24	-1.23	0	0	0	0	0	0
12/5/2024 18:54	66703	STRA_T1	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
12/5/2024 18:54	67402	WAKE_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
12/5/2024 18:54	66701	STRA_T1	1	5	4	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
12/5/2024 18:54	53502	EVIL_T2	1	1	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
12/5/2024 18:54	60502	NMAN_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
12/5/2024 18:54	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
12/5/2024 18:54	52001	LING_T1	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
12/5/2024 18:54	53501	EVIL_T2	0	2	2	0	0.25	0.25	-1.44	-1.42	2	2	0	1200	1200	0
12/5/2024 18:54	53903	HALI_T2	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
12/5/2024 18:54	52101	MEIS_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
12/5/2024 18:54	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
12/5/2024 18:54	58202	NEWV_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
12/5/2024 18:55	51109	CARL_T1	0	1	1	0	0.1	0.1	-0.88	-0.86	1	1	0	1200	1200	0
12/5/2024 18:55	67401	WAKE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:55	64305	LINC_T1	0	0	0	0	0	0	-0.54	-0.6	0	0	0	0	0	0
12/5/2024 18:55	51101	CARL_T1	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
12/5/2024 18:55	67402	WAKE_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
12/5/2024 18:55	51102	CARL_T1	34	45	11	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/5/2024 18:55	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
12/5/2024 18:55	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:55	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
12/5/2024 18:55	58401	MORO_T1	1	1	0	0.7	0.8	0.1	-0.79	-0.84	1	1	0	600	600	0
12/5/2024 18:55	51108	CARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/5/2024 18:55	66701	STRA_T1	1	5	4	0.3	0.25	-0.05	-0.11	-0.09	1	1	0	600	600	0
12/5/2024 18:55	47402	PENS_T1	3	3	0	1.73	0.2	-1.53	0	0	0	0	0	0	0	0
12/5/2024 18:55	51201	MTON_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/5/2024 18:55	47401	PENS_T1	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
12/5/2024 18:56	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
12/5/2024 18:56	58102	NEKI_T1	1	1	0	0.6	0.7	0.1	0.44	0.4	0	0	0	0	0	0
12/5/2024 18:57	55101	WERT_T1	0	0	0	0	0	0	-1.36	-1.36	1	1	0	600	600	0
12/5/2024 18:57	67605	WARW_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
12/5/2024 18:57	66505	SMAN_T2	2	4	2	0.4	0.57	0.17	0	0	0	0	0	0	0	0
12/5/2024 18:57	66504	SMAN_T2	0	0	0	0	0	0	-1.5	-1.5	1	1	0	1200	1200	0
12/5/2024 18:57	64101	REFR_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
12/5/2024 18:57	43304	WATS_T2	17	15	-2	0.51	0.3	-0.21	0	0	0	0	0	0	0	0
12/5/2024 18:58	57304	MOAL_T2	0	0	0	0	0	0	-0.22	-0.27	0	0	0	0	0	0
12/5/2024 18:58	57303	MOAL_T2	1	1	0	8.7	8.4	-0.3	0	0	0	0	0	0	0	0
12/5/2024 18:58	65502	MOJO_T2	0	0	0	0	0	0	-0.95	-0.89	0	0	0	0	0	0
12/5/2024 18:58	65902	SAKR_T2	0	0	0	0	0	0	-0.43	-0.45	1	1	0	300	300	0
12/5/2024 18:58	46203	DANV_T2	8	10	2	0.54	0.3	-0.24	-0.36	-0.31	0	0	0	0	0	0
12/5/2024 18:58	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
12/5/2024 18:58	52401	GRPA_T2	16	7	-9	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
12/5/2024 18:58	52403	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:58	52402	GRPA_T2	9	0	-9	0.33	0	-0.33	-0.67	-0.75	0	0	0	0	0	0
12/5/2024 18:58	65901	SAKR_T2	1	1	0	7.8	7.4	-0.4	0	0	0	0	0	0	0	0
12/5/2024 18:58	57201	ROSS_T1	0	0	0	0	0	0	-0.56	-0.64	0	0	0	0	0	0
12/5/2024 18:59	42903	MIDD_T2	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/5/2024 18:59	51101	CARL_T1	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
12/5/2024 18:59	51102	CARL_T1	34	45	11	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/5/2024 18:59	42902	MIDD_T2	5	28	23	0.72	0.85	0.13	-0.34	-0.4	0	0	0	0	0	0
12/5/2024 18:59	51108	CARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/5/2024 18:59	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:59	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 18:59	51109	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/5/2024 19:00	53501	EVIL_T2	1	2	1	0.2	0.25	0.05	-1.44	-1.42	2	2	0	1200	1200	0
12/5/2024 19:00	58401	MORO_T1	1	1	0	0.8	0.5	-0.3	-0.79	-0.84	1	1	0	600	600	0
12/5/2024 19:00	66703	STRA_T1	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
12/5/2024 19:00	46203	DANV_T2	0	10	10	0	0.49	0.49	-0.36	-0.31	0	0	0	0	0	0
12/5/2024 19:00	53502	EVIL_T2	1	1	0	1.4	0.2	-1.2	0	0	0	0	0	0	0	0
12/5/2024 19:00	66701	STRA_T1	2	5	3	0.25	0	-0.25	0	0	0	0	0	0	0	0
12/5/2024 19:01	49804	UNIV_T1	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
12/5/2024 19:01	49803	UNIV_T1	2	6	4	3.4	6.4	3	0	0	0	0	0	0	0	0
12/5/2024 19:02	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
12/5/2024 19:03	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2024 19:10	10705	CATA_T2	1	1	0	0.6	0	-0.6	-0.77	-0.81	1	1	0	900	900	0
12/5/2024 19:13	53902	HALI_T2	1	1	0	5.5	5.6	0.1	-0.78	-0.83	0	0	0	0	0	0
12/5/2024 19:13	53903	HALI_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
12/5/2024 19:13	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/5/2024 19:36	64204	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/5/2024 19:36	64203	KINZ_T1	6	7	1	0.72	0	-0.72	-0.36	-0.34	1	1	0	600	600	0
12/5/2024 19:37	49802	UNIV_T2	0	0	0	0	0	0	-0.51	-0.72	0	0	0	0	0	0
12/6/2024 7:36	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 7:36	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/6/2024 7:48	64904	MILL_T1	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
12/6/2024 7:57	45502	DERR_T2	3	5	2	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
12/6/2024 7:57	45501	DERR_T2	4	0	-4	0.28	0	-0.28	0.65	0.62	2	2	0	1800	1800	0
12/6/2024 8:08	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 8:12	16103	BING_T2	0	0	0	0	0	0	-1.52	-1.5	1	1	0	900	900	0
12/6/2024 8:12	54505	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/6/2024 8:12	54502	ENOL_T2	0	0	0	0	0	0	-2	-1.98	1	1	0	600	600	0
12/6/2024 8:14	10102	ALLE_T2	21	24	3	2.12	1.99	-0.13	0	0	0	0	0	0	0	0
12/6/2024 8:14	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 8:14	10206	ALLE_T2	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
12/6/2024 8:14	12006	HATF_T1	2	2	0	1.45	1.4	-0.05	0.42	0.33	1	1	0	1200	1200	0
12/6/2024 8:16	10102	ALLE_T2	24	21	-3	1.92	1.97	0.05	0	0	0	0	0	0	0	0
12/6/2024 8:16	10206	ALLE_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
12/6/2024 8:16	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 8:20	55002	NEWP_T1	5	0	0	0.4	0.36	-0.04	-0.14	-0.17	0	0	0	0	0	0
12/6/2024 8:23	67001	STHI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/6/2024 8:23	67002	STHI_T2	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
12/6/2024 8:24	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 8:25	46206	DANV_T2	3	2	-1	0.27	0	-0.27	2.12	2.04	1	1	0	1200	1200	0
12/6/2024 8:25	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/6/2024 8:26	53601	DALM_T2	1	2	1	0.5	1.1	0.6	-0.39	-0.41	1	1	0	900	900	0
12/6/2024 8:27	54503	ENOL_T2	0	0	0	0	0	0	-0.88	-0.34	1	1	0	600	600	0
12/6/2024 8:27	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/6/2024 8:27	54505	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/6/2024 8:27	46206	DANV_T2	3	2	-1	0.27	0	-0.27	2.12	2.04	1	1	0	1200	1200	0
12/6/2024 8:28	54503	ENOL_T2	0	0	0	0	0	0	-0.88	-0.34	1	1	0	600	600	0
12/6/2024 8:28	54505	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/6/2024 8:29	54503	ENOL_T2	0	0	0	0	0	0	-0.88	-0.34	1	1	0	600	600	0
12/6/2024 8:29	54505	ENOL_T2	0	1	1	0	0.3	0.3	-1.07	-1.1	1	1	0	600	600	0
12/6/2024 8:30	45802	HEGI_T2	0	44	44	0	0.93	0.93	0.46	0.23	1	1	0	900	900	0
12/6/2024 8:30	46206	DANV_T2	0	0	0	0	0	0	2.12	2.04	1	1	0	1200	1200	0
12/6/2024 8:31	45802	HEGI_T2	0	44	44	0	0.93	0.93	0.46	0.23	1	1	0	900	900	0
12/6/2024 8:32	45702	LIND_T2	1	9	8	0.5	0.27	-0.23	-1.79	-1.79	0	0	0	0	0	0
12/6/2024 8:35	58102	NEKI_T1	1	2	1	1.4	0.6	-0.8	-0.75	0.26	1	0	-1	1200	0	-1200
12/6/2024 8:38	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 8:38	66703	STRA_T1	0	0	0	0	0	0	-0.53	-0.51	0	0	0	0	0	0
12/6/2024 8:38	51006	NHAR_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/6/2024 8:38	51004	NHAR_T1	2	2	0	5.65	5.65	0	0	0	0	0	0	0	0	0
12/6/2024 8:38	51002	NHAR_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
12/6/2024 8:38	51003	NHAR_T1	4	0	-4	0.23	0	-0.23	-2.23	-0.9	1	0	-1	1200	0	-1200
12/6/2024 8:42	67702	WERN_T2	3	1	-2	0.57	1.6	1.03	0	0	0	0	0	0	0	0
12/6/2024 8:42	63501	HEID_TBK1-2	1	41	40	0.1	0.4	0.3	-0.22	-0.21	1	1	0	900	900	0
12/6/2024 8:42	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 8:43	45501	DERR_T2	0	0	0	0	0	0	0.5	0.43	2	2	0	1800	1800	0
12/6/2024 8:44	53501	EVIL_T2	2	1	-1	0.45	0.2	-0.25	-1.01	-1.03	2	2	0	1200	1200	0
12/6/2024 8:44	53502	EVIL_T2	1	10	9	2.1	2	-0.1	0	0	0	0	0	0	0	0
12/6/2024 8:46	63501	HEID_TBK1-2	24	41	17	0.15	0.4	0.25	-0.22	-0.21	1	1	0	900	900	0
12/6/2024 8:47	63501	HEID_TBK1-2	24	41	17	0.15	0.4	0.25	-0.22	-0.21	1	1	0	900	900	0
12/6/2024 8:48	43201	MVIL_T2	0	1	1	0	0	0	-0.33	-0.32	0	0	0	0	0	0
12/6/2024 8:48	43202	MVIL_T2	2	3	1	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
12/6/2024 8:48	45702	LIND_T2	3	9	6	0.37	0.26	-0.11	-1.79	-1.78	0	0	0	0	0	0
12/6/2024 8:49	55002	NEWP_T1	3	2	-1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
12/6/2024 8:49	55001	NEWP_T1	0	0	0	0	0	0	-0.82	-0.85	1	1	0	600	600	0
12/6/2024 8:52	67001	STHI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/6/2024 8:52	67002	STHI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/6/2024 8:52	57201	ROSS_T1	0	0	0	0	0	0	-0.48	-0.36	0	0	0	0	0	0
12/6/2024 8:53	67002	STHI_T2	0	1	1	0	0.3	0.3	0.68	0.68	0	0	0	0	0	0
12/6/2024 8:53	67001	STHI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/6/2024 8:54	67002	STHI_T2	0	1	1	0	0.3	0.3	2.03	2.03	0	0	0	0	0	0
12/6/2024 8:54	67001	STHI_T2	1	1	0	0.3	0.4	0.1	0.14	0.14	0	0	0	0	0	0
12/6/2024 8:54	67702	WERN_T2	1	4	3	1.6	0.9	-0.7	0	0	0	0	0	0	0	0
12/6/2024 8:54	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 8:55	67001	STHI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/6/2024 8:55	67002	STHI_T2	0	1	1	0	0.3	0.3	0.68	0.68	0	0	0	0	0	0
12/6/2024 8:58	46002	BERW_T2	0	0	0	0	0	0	-0.57	-0.57	1	1	0	900	900	0
12/6/2024 9:00	66703	STRA_T1	0	1	1	0	0.3	0.3	-0.51	-0.58	0	0	0	0	0	0
12/6/2024 9:00	55002	NEWP_T1	2	4	2	0.6	0.65	0.05	0	0	0	0	0	0	0	0
12/6/2024 9:00	67502	WEWI_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
12/6/2024 9:00	66701	STRA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/6/2024 9:00	67702	WERN_T2	1	1	0	2	0.8	-1.2	0	0	0	0	0	0	0	0
12/6/2024 9:00	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 9:00	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/6/2024 9:00	67503	WEWI_T2	1	1	0	7.8	7.7	-0.1	0.15	0.1	0	0	0	0	0	0
12/6/2024 9:00	67002	STHI_T2	1	1	0	0.2	0.3	0.1	2.03	2.03	0	0	0	0	0	0
12/6/2024 9:00	40101	HUNT_T2	122	265	143	0.6	0.63	0.03	-1.61	-1.03	0	0	0	0	0	0
12/6/2024 9:00	55001	NEWP_T1	0	0	0	0	0	0	-0.85	-0.24	1	0	-1	600	0	-600
12/6/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.37	0.41	0	0	0	0	0	0
12/6/2024 9:00	58102	NEKI_T1	2	2	0	0.6	0.7	0.1	0.32	0.37	0	0	0	0	0	0
12/6/2024 9:02	40101	HUNT_T2	122	265	143	0.6	0.63	0.03	0	0	0	0	0	0	0	0
12/6/2024 9:04	64801	MONE_T2	4	1	-3	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
12/6/2024 9:04	64802	MONE_T2	16	7	-9	0.23	0.11	-0.12	0.24	0.28	0	0	0	0	0	0
12/6/2024 9:07	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 9:07	67702	WERN_T2	1	1	0	2	0.8	-1.2	0	0	0	0	0	0	0	0
12/6/2024 9:08	16103	BING_T2	0	0	0	0	0	0	-1.52	-1.55	1	1	0	900	900	0
12/6/2024 9:08	46101	MACI_T2	0	0	0	0	0	0	0.6	0.63	1	1	0	1200	1200	0
12/6/2024 9:08	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/6/2024 9:08	67002	STHI_T2	1	1	0	0.2	0.3	0.1	0.68	0.66	0	0	0	0	0	0
12/6/2024 9:09	44905	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 9:10	67001	STHI_T2	1	1	0	0.2	0.3	0.1	1.36	1.32	0	0	0	0	0	0
12/6/2024 9:10	67001	STHI_T2	1	1	0	0.4	0.4	0	0.14	0.14	0	0	0	0	0	0
12/6/2024 9:10	67702	WERN_T2	1	1	0	2	0.8	-1.2	0	0	0	0	0	0	0	0
12/6/2024 9:10	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 9:10	10805	CHHI_T2	1	6	5	7.5	7.4	-0.1	0	0	1	1	0	600	600	0
12/6/2024 9:10	45501	DERR_T2	0	0	0	0	0	0	0.85	0.94	4	4	0	3600	3600	0
12/6/2024 9:11	46004	BERW_T2	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
12/6/2024 9:13	24105	EHAZ_T1	15	24	9	2.02	2.58	0.56	0	0	0	0	0	0	0	0
12/6/2024 9:13	24101	EHAZ_T1	50	52	2	1	0.61	-0.39	0	0	0	0	0	0	0	0
12/6/2024 9:13	24104	EHAZ_T1	38	0	-38	0.14	0	-0.14	-2.14	-0.8	1	1	0	1200	1200	0
12/6/2024 9:13	63501	HEID_TBK1-2	40	23	-17	0.41	0.17	-0.24	-0.31	-0.2	1	1	0	900	900	0
12/6/2024 9:14	40701	FFLD_T1	36	52	16	0.62	0.72	0.1	0	0	0	0	0	0	0	0
12/6/2024 9:14	40703	FFLD_T1	4	4	0	0.63	0.85	0.22	0	0	0	0	0	0	0	0
12/6/2024 9:14	40702	FFLD_T1	92	148	56	0.27	0.4	0.13	0	0	0	0	0	0	0	0
12/6/2024 9:15	40701	FFLD_T1	0	37	37	0	0.68	0.68	0	0	0	0	0	0	0	0
12/6/2024 9:15	40702	FFLD_T1	0	86	86	0	0.23	0.23	0	0	0	0	0	0	0	0
12/6/2024 9:15	20603	GRWO_T2	0	8	8	0	0.2	0.2	0.51	0.53	0	0	0	0	0	0
12/6/2024 9:15	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 9:15	52402	GRPA_T2	3	7	4	0.2	0.23	0.03	-0.57	-0.59	0	0	0	0	0	0
12/6/2024 9:15	63501	HEID_TBK1-2	23	11	-12	0.17	0.13	-0.04	-0.31	-0.2	1	1	0	900	900	0
12/6/2024 9:15	52403	GRPA_T2	3	24	21	0.2	0.27	0.07	0	0	0	0	0	0	0	0
12/6/2024 9:15	52404	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/6/2024 9:15	20601	GRWO_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
12/6/2024 9:15	40703	FFLD_T1	0	4	4	0	0.65	0.65	0	0	0	0	0	0	0	0
12/6/2024 9:15	45501	DERR_T2	0	0	0	0	0	0	0.42	0.47	2	2	0	1800	1800	0
12/6/2024 9:17	63401	HONY_T1	0	0	0	0	0	0	1.11	0.98	0	0	0	0	0	0
12/6/2024 9:18	55002	NEWP_T1	2	7	5	0.3	0.56	0.26	-0.13	-0.13	0	0	0	0	0	0
12/6/2024 9:19	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/6/2024 9:19	65207	PRIN_T4	2	3	1	4	2.83	-1.17	0	0	1	1	0	1200	1200	0
12/6/2024 9:19	65206	PRIN_T4	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
12/6/2024 9:20	64801	MONE_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 9:20	57201	ROSS_T1	0	0	0	0	0	0	-0.36	-0.63	0	0	0	0	0	0
12/6/2024 9:20	64802	MONE_T2	6	8	2	0.1	0.19	0.09	0.28	0.25	0	0	0	0	0	0
12/6/2024 9:22	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/6/2024 9:22	52502	PROG_T2	0	0	0	0	0	0	-0.85	-0.84	2	2	0	1800	1800	0
12/6/2024 9:22	42501	ALTA_T2	0	0	0	0	0	0	0	0.06	2	2	0	1200	1200	0
12/6/2024 9:23	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/6/2024 9:23	67605	WARW_T1	1	4	3	0.1	0.35	0.25	83.96	83.96	0	0	0	0	0	0
12/6/2024 9:23	42501	ALTA_T2	0	0	0	0	0	0	0	0.03	1	1	0	600	600	0
12/6/2024 9:23	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 9:24	57201	ROSS_T1	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
12/6/2024 9:24	44902	SCOT_T2	0	0	0	0	0	0	-0.94	-0.92	0	0	0	0	0	0
12/6/2024 9:25	46204	DANV_T2	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
12/6/2024 9:25	46206	DANV_T2	0	7	7	0	0	0	2.5	2.52	1	1	0	1200	1200	0
12/6/2024 9:26	49802	UNIV_T2	0	0	0	0	0	0	-0.81	-0.86	0	0	0	0	0	0
12/6/2024 9:26	10805	CHHI_T2	6	1	-5	1.7	7.4	5.7	0	0	1	1	0	600	600	0
12/6/2024 9:28	46206	DANV_T2	0	7	7	0	0	0	5.01	5.03	2	2	0	2400	2400	0
12/6/2024 9:28	46204	DANV_T2	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
12/6/2024 9:29	53601	DALM_T2	1	1	0	0.9	0.5	-0.4	-0.44	-0.44	1	1	0	900	900	0
12/6/2024 9:29	40101	HUNT_T2	264	204	-60	0.81	0.57	-0.24	-1.04	-1.08	0	0	0	0	0	0
12/6/2024 9:31	40101	HUNT_T2	178	181	3	0.63	0.51	-0.12	-1.04	-1.08	0	0	0	0	0	0
12/6/2024 9:34	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 9:34	65602	QVIL_T2	9	9	0	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/6/2024 9:35	65602	QVIL_T2	9	9	0	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/6/2024 9:35	65601	QVIL_T2	0	0	0	0	0	0	-1	-1.03	1	1	0	900	900	0
12/6/2024 9:37	55002	NEWP_T1	4	7	3	0.65	0.56	-0.09	0	0	0	0	0	0	0	0
12/6/2024 9:37	55001	NEWP_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
12/6/2024 9:38	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 9:39	66703	STRA_T1	1	1	0	0.3	0.9	0.6	-0.62	-0.55	0	0	0	0	0	0
12/6/2024 9:39	49803	UNIV_T1	1	1	0	6.8	6.3	-0.5	0	0	0	0	0	0	0	0
12/6/2024 9:39	49804	UNIV_T1	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
12/6/2024 9:39	66701	STRA_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/6/2024 9:39	44901	SCOT_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
12/6/2024 9:40	55105	WERT_T1	0	0	0	0	0	0	-0.45	-0.47	1	1	0	900	900	0
12/6/2024 9:41	61502	EPET_T1	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
12/6/2024 9:41	42701	AUGU_T1	1	1	0	0.6	1	0.4	0	0	2	2	0	1800	1800	0
12/6/2024 9:42	61506	EPET_T2	0	0	0	0	0	0	-0.95	-0.92	1	1	0	900	900	0
12/6/2024 9:44	63501	HEID_TBK1-2	11	3	-8	0.13	0.1	-0.03	-0.27	-0.26	1	1	0	900	900	0
12/6/2024 9:45	63501	HEID_TBK1-2	0	22	22	0	0.16	0.16	-0.54	-0.51	2	2	0	1800	1800	0
12/6/2024 9:46	54506	ENOL_T2	0	0	0	0	0	0	0.37	0.3	0	0	0	0	0	0
12/6/2024 9:46	64904	MILL_T1	0	1	1	0	0.1	0.1	-0.32	-0.33	0	0	0	0	0	0
12/6/2024 9:47	58401	MORO_T1	0	0	0	0	0	0	-1.77	-1.8	1	1	0	600	600	0
12/6/2024 9:47	58402	MORO_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/6/2024 9:51	57205	ROSS_T1	0	0	0	0	0	0	0.38	0.33	0	0	0	0	0	0
12/6/2024 9:52	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 9:52	50103	HARR_T3	2	3	1	0.15	0.25	0.1	0	0	0	0	0	0	0	0
12/6/2024 9:52	50201	HARR_T3	1	1	0	8	8	0	0	0	0	0	0	0	0	0
12/6/2024 9:52	50106	HARR_T3	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/6/2024 9:52	50105	HARR_T3	6	6	0	6.95	7.03	0.08	0	0	0	0	0	0	0	0
12/6/2024 9:52	50202	HARR_T3	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
12/6/2024 9:53	57203	ROSS_T1	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
12/6/2024 9:54	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 9:55	67702	WERN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/6/2024 9:57	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 9:58	67702	WERN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/6/2024 9:59	64201	KINZ_T1	0	0	0	0	0	0	-0.9	-0.43	4	3	-1	2100	1500	-600
12/6/2024 9:59	64204	KINZ_T1	19	24	5	0.42	0.46	0.04	0	0	0	0	0	0	0	0
12/6/2024 9:59	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 10:01	45702	LIND_T2	0	0	0	0	0	0	-0.51	-0.48	0	0	0	0	0	0
12/6/2024 10:02	52403	GRPA_T2	3	3	0	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
12/6/2024 10:02	52402	GRPA_T2	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/6/2024 10:02	52404	GRPA_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
12/6/2024 10:03	40101	HUNT_T2	144	254	110	0.51	0.62	0.11	-1.02	-1.02	0	0	0	0	0	0
12/6/2024 10:06	46102	MACJ_T1	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
12/6/2024 10:07	59101	WALK_T2	0	0	0	0	0	0	1.48	1.55	0	0	0	0	0	0
12/6/2024 10:07	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/6/2024 10:07	60301	TWVA_T2	0	0	0	0	0	0	-6.13	-5.94	4	4	0	3600	3600	0
12/6/2024 10:07	66504	SMAN_T2	1	3	2	0.1	0.4	0.3	-0.25	-0.39	0	0	0	0	0	0
12/6/2024 10:08	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/6/2024 10:08	59101	WALK_T2	0	0	0	0	0	0	1.48	1.55	0	0	0	0	0	0
12/6/2024 10:08	66504	SMAN_T2	1	3	2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
12/6/2024 10:12	53502	EVIL_T2	1	1	0	3.9	3	-0.9	0	0	0	0	0	0	0	0
12/6/2024 10:12	53501	EVIL_T2	2	3	1	0.95	0.8	-0.15	-1.1	-1.06	2	2	0	1200	1200	0
12/6/2024 10:12	67702	WERN_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/6/2024 10:12	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 10:13	67702	WERN_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/6/2024 10:13	56803	BENV_T1	1	1	0	0.1	2.2	2.1	0.31	0.33	0	0	0	0	0	0
12/6/2024 10:13	66504	SMAN_T2	1	3	2	0.1	0.4	0.3	-0.5	-0.78	0	0	0	0	0	0
12/6/2024 10:13	56801	BENV_T1	4	3	-1	0.73	0.87	0.14	0	0	0	0	0	0	0	0
12/6/2024 10:13	53501	EVIL_T2	2	3	1	0.95	0.8	-0.15	-1.1	-1.06	2	2	0	1200	1200	0
12/6/2024 10:13	53502	EVIL_T2	1	1	0	3.9	3	-0.9	0	0	0	0	0	0	0	0
12/6/2024 10:13	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/6/2024 10:15	59101	WALK_T2	0	0	0	0	0	0	1.48	1.55	0	0	0	0	0	0
12/6/2024 10:16	53502	EVIL_T2	1	1	0	3	1.6	-1.4	0	0	0	0	0	0	0	0
12/6/2024 10:16	53501	EVIL_T2	2	2	0	0.55	1.1	0.55	-1.1	-1.06	2	2	0	1200	1200	0
12/6/2024 10:17	53502	EVIL_T2	1	1	0	3	1.6	-1.4	0	0	0	0	0	0	0	0
12/6/2024 10:17	53501	EVIL_T2	2	2	0	0.55	1.1	0.55	-1.1	-1.06	2	2	0	1200	1200	0
12/6/2024 10:18	53502	EVIL_T2	1	1	0	3	1.6	-1.4	0	0	0	0	0	0	0	0
12/6/2024 10:18	53501	EVIL_T2	2	2	0	0.55	1.1	0.55	-1.1	-1.06	2	2	0	1200	1200	0
12/6/2024 10:20	58401	MORO_T1	0	0	0	0	0	0	-1.79	-1.79	1	1	0	600	600	0
12/6/2024 10:21	52001	LING_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
12/6/2024 10:21	52003	LING_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 10:21	58401	MORO_T1	0	0	0	0	0	0	-1.79	-1.79	1	1	0	600	600	0
12/6/2024 10:23	65207	PRIN_T4	3	4	1	2.83	2.07	-0.76	0	0	1	1	0	1200	1200	0
12/6/2024 10:23	66402	ROBE_T1	0	0	0	0	0	0	-1.69	-1.6	2	2	0	1500	1500	0
12/6/2024 10:23	60301	TWVA_T2	0	0	0	0	0	0	-5.94	-6.09	4	4	0	3600	3600	0
12/6/2024 10:28	10801	CHHI_T1	0	4	4	0	0.4	0.4	-0.76	-1.16	1	2	1	900	1500	600
12/6/2024 10:29	24101	EHAZ_T1	52	50	-2	1.09	0.88	-0.21	0	0	0	0	0	0	0	0
12/6/2024 10:29	24102	EHAZ_T1	3	4	1	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
12/6/2024 10:29	24105	EHAZ_T1	12	11	-1	2.5	6.15	3.65	-1.94	-1.96	1	1	0	1200	1200	0
12/6/2024 10:29	24103	EHAZ_T1	15	7	-8	0.64	0.63	-0.01	0	0	0	0	0	0	0	0
12/6/2024 10:30	66703	STRA_T1	5	9	4	0.46	0.52	0.06	-0.65	-0.68	0	0	0	0	0	0
12/6/2024 10:30	66701	STRA_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
12/6/2024 10:32	42902	MIDD_T2	0	1	1	0	0.1	0.1	-0.73	-0.76	1	1	0	600	600	0
12/6/2024 10:32	60501	NMAN_T2	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
12/6/2024 10:32	60502	NMAN_T2	1	1	0	0.1	0.4	0.3	-0.11	-0.17	0	0	0	0	0	0
12/6/2024 10:32	42903	MIDD_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
12/6/2024 10:32	60504	NMAN_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
12/6/2024 10:34	42902	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 10:34	42903	MIDD_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
12/6/2024 10:35	60502	NMAN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
12/6/2024 10:35	60504	NMAN_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
12/6/2024 10:35	60501	NMAN_T2	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
12/6/2024 10:38	43801	SWIL_T1	1	4	3	4.8	1.33	-3.47	0	0	0	0	0	0	0	0
12/6/2024 10:38	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 10:39	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 10:40	10801	CHHI_T1	0	4	4	0	0.53	0.53	-2.32	-2.5	4	4	0	3000	3000	0
12/6/2024 10:41	61103	BERK_T5	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
12/6/2024 10:44	25402	LAHA_T2	16	13	-3	1.19	1.01	-0.18	0.38	0.37	0	0	0	0	0	0
12/6/2024 10:44	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-0.99	0	0	0	0	0	0
12/6/2024 10:45	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
12/6/2024 10:45	24101	EHAZ_T1	40	19	-21	0.88	0.44	-0.44	0	0	0	0	0	0	0	0
12/6/2024 10:45	63804	HEMP_T1	2	1	-1	3.65	6.8	3.15	0	0	0	0	0	0	0	0
12/6/2024 10:45	24103	EHAZ_T1	4	4	0	0.63	0.17	-0.46	0	0	0	0	0	0	0	0
12/6/2024 10:45	24102	EHAZ_T1	4	2	-2	1.85	0.2	-1.65	0	0	0	0	0	0	0	0
12/6/2024 10:45	63803	HEMP_T1	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
12/6/2024 10:45	24105	EHAZ_T1	4	4	0	6.15	6.03	-0.12	-1.96	-1.94	1	1	0	1200	1200	0
12/6/2024 10:45	63801	HEMP_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
12/6/2024 10:47	64203	KINZ_T1	2	0	-2	0.1	0	-0.1	-0.3	-0.33	3	3	0	2100	2100	0
12/6/2024 10:47	64204	KINZ_T1	3	1	-2	0.6	1.3	0.7	0	0	0	0	0	0	0	0
12/6/2024 10:47	64801	MONE_T2	8	26	18	0.2	0.23	0.03	0	0	0	0	0	0	0	0
12/6/2024 10:47	64202	KINZ_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
12/6/2024 10:47	64802	MONE_T2	31	79	48	0.19	0.35	0.16	0	0	0	0	0	0	0	0
12/6/2024 10:48	45702	LIND_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
12/6/2024 10:48	64203	KINZ_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/6/2024 10:48	64204	KINZ_T1	3	1	-2	0.6	1.3	0.7	0	0	0	0	0	0	0	0
12/6/2024 10:48	64202	KINZ_T1	0	2	2	0	0.25	0.25	0.82	0.78	0	0	0	0	0	0
12/6/2024 10:51	42903	MIDD_T2	2	2	0	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
12/6/2024 10:51	42902	MIDD_T2	0	1	1	0	0.1	0.1	-0.76	-0.75	1	1	0	600	600	0
12/6/2024 10:54	14603	SWHI_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
12/6/2024 10:54	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 10:58	45802	HEGI_T2	17	44	27	0.5	1	0.5	0.23	0.08	1	1	0	900	900	0
12/6/2024 10:59	45802	HEGI_T2	17	44	27	0.5	1	0.5	0	0	0	0	0	0	0	0
12/6/2024 11:00	62102	ELAN_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
12/6/2024 11:00	62106	ELAN_T1	0	0	0	0	0	0	1.1	1.08	0	0	0	0	0	0
12/6/2024 11:00	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 11:02	53501	EVIL_T2	2	2	0	0.95	0.95	0	-1.07	-1.03	2	2	0	1200	1200	0
12/6/2024 11:02	53502	EVIL_T2	1	11	10	1	0.7	-0.3	0	0	0	0	0	0	0	0
12/6/2024 11:03	22602	KIMB_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
12/6/2024 11:03	45802	HEGI_T2	18	44	26	0.54	1.44	0.9	0.23	0.08	1	1	0	900	900	0
12/6/2024 11:04	63601	LETO_T1	5	6	1	0.32	0.47	0.15	0.85	0.86	1	1	0	900	900	0
12/6/2024 11:06	55405	SHER_T1	21	28	7	0.69	0.69	0	0	0	0	0	0	0	0	0
12/6/2024 11:06	14603	SWHI_T1	1	1	0	0.3	0.7	0.4	-1.57	-1.55	2	2	0	1200	1200	0
12/6/2024 11:09	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 11:09	67605	WARW_T1	13	17	4	0.45	0.38	-0.07	83.96	83.96	0	0	0	0	0	0
12/6/2024 11:11	67601	WARW_T2	0	0	0	0	0	0	-0.43	-0.49	0	0	0	0	0	0
12/6/2024 11:11	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 11:11	67605	WARW_T1	13	17	4	0.45	0.38	-0.07	83.96	83.96	0	0	0	0	0	0
12/6/2024 11:11	67605	WARW_T1	13	17	4	0.45	0.38	-0.07	83.96	83.96	0	0	0	0	0	0
12/6/2024 11:11	67605	WARW_T1	13	17	4	0.45	0.38	-0.07	83.96	83.96	0	0	0	0	0	0
12/6/2024 11:11	67605	WARW_T1	13	17	4	0.45	0.38	-0.07	83.96	83.96	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/6/2024 11:12	14603	SWHI_T1	1	1	0	0.3	0.7	0.4	-1.57	-1.55	2	2	0	1200	1200	0
12/6/2024 11:12	55101	WERT_T1	0	0	0	0	0	0	-2.61	-2.64	2	2	0	1200	1200	0
12/6/2024 11:13	61703	ELIZ_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/6/2024 11:13	61701	ELIZ_T1	2	2	0	3	3	0	0.03	-0.01	0	0	0	0	0	0
12/6/2024 11:14	24702	FLND_T2	1	7	6	1	0.37	-0.63	0.18	0.08	1	1	0	1200	1200	0
12/6/2024 11:14	24701	FLND_T2	0	8	8	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 11:14	53901	HALI_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
12/6/2024 11:14	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
12/6/2024 11:14	53903	HALI_T2	3	4	1	0.97	0.93	-0.04	-0.06	-0.05	0	0	0	0	0	0
12/6/2024 11:15	44801	EDAN_T2	0	3	3	0	0.23	0.23	-0.48	-0.54	0	0	0	0	0	0
12/6/2024 11:17	60501	NMAN_T2	1	19	18	0.7	0.22	-0.48	0	0	0	0	0	0	0	0
12/6/2024 11:17	60504	NMAN_T2	2	4	2	0.35	0.45	0.1	0	0	0	0	0	0	0	0
12/6/2024 11:17	60502	NMAN_T2	1	2	1	0.6	0.9	0.3	-0.23	-0.15	0	0	0	0	0	0
12/6/2024 11:18	60504	NMAN_T2	2	4	2	0.35	0.45	0.1	0	0	0	0	0	0	0	0
12/6/2024 11:18	60502	NMAN_T2	1	2	1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
12/6/2024 11:18	60501	NMAN_T2	1	19	18	0.7	0.22	-0.48	0	0	0	0	0	0	0	0
12/6/2024 11:21	60501	NMAN_T2	1	19	18	0.7	0.22	-0.48	0	0	0	0	0	0	0	0
12/6/2024 11:21	60502	NMAN_T2	1	2	1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
12/6/2024 11:21	60504	NMAN_T2	2	4	2	0.35	0.45	0.1	0	0	0	0	0	0	0	0
12/6/2024 11:22	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 11:22	60504	NMAN_T2	2	4	2	0.35	0.45	0.1	0	0	0	0	0	0	0	0
12/6/2024 11:22	60502	NMAN_T2	1	2	1	0.6	0.9	0.3	-0.15	-0.21	0	0	0	0	0	0
12/6/2024 11:22	60501	NMAN_T2	1	19	18	0.7	0.22	-0.48	0	0	0	0	0	0	0	0
12/6/2024 11:23	43301	WATS_T2	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
12/6/2024 11:25	60803	BUCK_T1	4	10	6	0.15	0.26	0.11	0	0	0	0	0	0	0	0
12/6/2024 11:25	60801	BUCK_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/6/2024 11:26	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 11:27	53502	EVIL_T2	11	1	-10	0.35	0.5	0.15	0	0	0	0	0	0	0	0
12/6/2024 11:27	53501	EVIL_T2	2	2	0	0.8	0.9	0.1	-1.05	-1.1	2	2	0	1200	1200	0
12/6/2024 11:30	45802	HEGI_T2	44	42	-2	1.44	1.06	-0.38	-0.05	0.1	1	1	0	900	900	0
12/6/2024 11:31	40101	HUNT_T2	182	124	-58	0.64	0.42	-0.22	-1.03	-1.09	0	0	0	0	0	0
12/6/2024 11:31	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-1.01	1	1	0	600	600	0
12/6/2024 11:32	40101	HUNT_T2	182	124	-58	0.64	0.42	-0.22	-1.03	-1.09	0	0	0	0	0	0
12/6/2024 11:36	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 11:36	52004	LING_T2	2	2	0	3.1	3.35	0.25	0.07	0.06	0	0	0	0	0	0
12/6/2024 11:37	52004	LING_T2	2	2	0	3.1	3.35	0.25	0.06	0.09	0	0	0	0	0	0
12/6/2024 11:39	54601	SUMM_T2	2	3	1	0.2	0.3	0.1	0	0	2	2	0	2100	2100	0
12/6/2024 11:40	41601	CLEV_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/6/2024 11:40	60801	BUCK_T1	1	3	2	0.2	0.27	0.07	0.02	-0.01	0	0	0	0	0	0
12/6/2024 11:40	41602	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/6/2024 11:40	60803	BUCK_T1	10	14	4	0.22	0.22	0	0	0	0	0	0	0	0	0
12/6/2024 11:41	55101	WERT_T1	0	0	0	0	0	0	-1.13	-1.2	1	1	0	600	600	0
12/6/2024 11:43	41601	CLEV_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/6/2024 11:43	41602	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/6/2024 11:44	41601	CLEV_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/6/2024 11:44	41602	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/6/2024 11:46	53501	EVIL_T2	2	2	0	0.4	1	0.6	-1.1	-1.15	2	2	0	1200	1200	0
12/6/2024 11:46	53502	EVIL_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/6/2024 11:47	59002	MIFF_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
12/6/2024 11:47	59003	MIFF_T1	1	0	-1	0.3	0	-0.3	-0.27	0.48	0	0	0	0	0	0
12/6/2024 11:51	64101	REFR_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
12/6/2024 11:52	52004	LING_T2	2	2	0	3	3.55	0.55	0.09	0.09	0	0	0	0	0	0
12/6/2024 11:52	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 11:53	53102	WTWN_T1	0	0	0	0	0	0	-1.16	-1.18	0	0	0	0	0	0
12/6/2024 11:53	53101	WTWN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/6/2024 11:54	64101	REFR_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
12/6/2024 11:54	13901	SEID_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/6/2024 11:54	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 11:54	13904	SEID_T1	13	0	-13	0.36	0	-0.36	0	0	0	0	0	0	0	0
12/6/2024 11:55	66701	STRA_T1	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
12/6/2024 11:55	54601	SUMM_T2	2	3	1	0.35	0.27	-0.08	0	0	2	2	0	2100	2100	0
12/6/2024 11:55	66703	STRA_T1	6	17	11	0.57	0.38	-0.19	-0.67	-0.76	0	0	0	0	0	0
12/6/2024 11:56	53101	WTWN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/6/2024 11:56	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 11:57	53102	WTWN_T1	0	0	0	0	0	0	-1.16	-1.18	0	0	0	0	0	0
12/6/2024 11:57	53101	WTWN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/6/2024 11:58	53601	DALM_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
12/6/2024 11:58	53602	DALM_T2	0	0	0	0	0	0	-0.52	-0.53	1	1	0	600	600	0
12/6/2024 12:01	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
12/6/2024 12:01	63804	HEMP_T1	1	1	0	6.8	6.5	-0.3	0	0	0	0	0	0	0	0
12/6/2024 12:01	63801	HEMP_T1	1	2	1	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
12/6/2024 12:01	63803	HEMP_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
12/6/2024 12:07	56501	ROCK_T2	1	4	3	0.4	0.23	-0.17	-1.01	-0.97	0	0	0	0	0	0
12/6/2024 12:08	43102	SMIL_T2	6	6	0	0.78	1.15	0.37	-0.81	-0.81	1	1	0	600	600	0
12/6/2024 12:08	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 12:08	56501	ROCK_T2	1	4	3	0.4	0.23	-0.17	-1.01	-0.97	0	0	0	0	0	0
12/6/2024 12:08	43103	SMIL_T2	4	10	6	0.28	0.32	0.04	0	0	0	0	0	0	0	0
12/6/2024 12:08	43105	SMIL_T2	14	16	2	0.29	0.33	0.04	0	0	0	0	0	0	0	0
12/6/2024 12:09	43105	SMIL_T2	14	16	2	0.29	0.33	0.04	0	0	0	0	0	0	0	0
12/6/2024 12:09	44301	BEAV_T2	0	0	0	0	0	0	-0.63	-0.62	1	1	0	600	600	0
12/6/2024 12:09	43103	SMIL_T2	4	10	6	0.28	0.32	0.04	0	0	0	0	0	0	0	0
12/6/2024 12:09	43101	SMIL_T2	0	1	1	0	0	0	-0.6	-0.6	0	0	0	0	0	0
12/6/2024 12:09	43102	SMIL_T2	6	6	0	0.78	1.15	0.37	0	0	0	0	0	0	0	0
12/6/2024 12:10	44301	BEAV_T2	0	0	0	0	0	0	-0.63	-0.62	1	1	0	600	600	0
12/6/2024 12:10	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 12:11	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/6/2024 12:12	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 12:13	44301	BEAV_T2	0	0	0	0	0	0	-0.63	-0.62	1	1	0	600	600	0
12/6/2024 12:13	53903	HALI_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 12:13	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/6/2024 12:13	52403	GRPA_T2	3	1	-2	0.37	0.5	0.13	-0.09	-0.12	0	0	0	0	0	0
12/6/2024 12:13	52402	GRPA_T2	3	3	0	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
12/6/2024 12:13	53901	HALI_T2	1	1	0	0.5	0.3	-0.2	-0.9	-0.91	0	0	0	0	0	0
12/6/2024 12:13	41801	GOCI_T2	4	14	10	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
12/6/2024 12:13	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
12/6/2024 12:14	41305	FISH_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/6/2024 12:14	41801	GOCI_T2	4	14	10	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
12/6/2024 12:14	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 12:14	41301	FISH_T1	3	3	0	1.5	2.13	0.63	-0.28	-0.3	0	0	0	0	0	0
12/6/2024 12:15	41801	GOCI_T2	4	14	10	0.43	0.31	-0.12	0	0	0	0	0	0	0	0
12/6/2024 12:15	47403	PENS_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
12/6/2024 12:15	52402	GRPA_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/6/2024 12:15	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/6/2024 12:15	47401	PENS_T1	0	0	0	0	0	0	0.24	0.2	0	0	0	0	0	0
12/6/2024 12:15	52403	GRPA_T2	0	3	3	0	0.33	0.33	-0.09	-0.12	0	0	0	0	0	0
12/6/2024 12:19	63202	MGTN_T2	0	0	0	0	0	0	0.01	-0.02	1	1	0	900	900	0
12/6/2024 12:21	65503	MOJO_T2	0	0	0	0	0	0	-0.57	-0.61	0	0	0	0	0	0
12/6/2024 12:23	42802	SELI_T1	0	0	0	0	0	0	-1.73	-1.74	0	0	0	0	0	0
12/6/2024 12:24	46001	BERW_T1	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
12/6/2024 12:25	46001	BERW_T1	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
12/6/2024 12:27	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 12:27	60201	ATGL_T2	9	2	-7	0.16	0.25	0.09	-0.05	-0.07	0	0	0	0	0	0
12/6/2024 12:27	44801	EDAN_T2	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
12/6/2024 12:27	44802	EDAN_T2	0	0	0	0	0	0	-2.24	-2.2	0	0	0	0	0	0
12/6/2024 12:28	44801	EDAN_T2	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
12/6/2024 12:28	44802	EDAN_T2	0	0	0	0	0	0	-4.48	-4.41	0	0	0	0	0	0
12/6/2024 12:29	44802	EDAN_T2	0	0	0	0	0	0	-4.48	-4.41	0	0	0	0	0	0
12/6/2024 12:29	44801	EDAN_T2	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
12/6/2024 12:30	44802	EDAN_T2	0	0	0	0	0	0	-4.48	-4.41	0	0	0	0	0	0
12/6/2024 12:31	63501	HEID_TBK1-2	24	33	9	0.23	0.25	0.02	-0.3	-0.34	1	1	0	900	900	0
12/6/2024 12:34	42301	MOWR_T2	1	0	-1	0.2	0	-0.2	-0.25	-0.24	0	0	0	0	0	0
12/6/2024 12:35	25501	MADI_T1	7	8	1	1.15	1.45	0.3	0	0	0	0	0	0	0	0
12/6/2024 12:35	25503	MADI_T1	0	0	0	0	0	0	-0.92	-0.92	0	0	0	0	0	0
12/6/2024 12:37	41901	REED_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/6/2024 12:37	64101	REFR_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
12/6/2024 12:37	41902	REED_T1	0	0	0	0	0	0	2.26	2.31	0	0	0	0	0	0
12/6/2024 12:37	55002	NEWP_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
12/6/2024 12:38	55101	WERT_T1	0	0	0	0	0	0	-1.12	-0.87	1	1	0	600	600	0
12/6/2024 12:39	41901	REED_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/6/2024 12:39	55101	WERT_T1	0	0	0	0	0	0	-2.25	-1.75	2	2	0	1200	1200	0
12/6/2024 12:39	41902	REED_T1	0	0	0	0	0	0	1.13	1.15	0	0	0	0	0	0
12/6/2024 12:40	55101	WERT_T1	0	0	0	0	0	0	-1.12	-0.87	1	1	0	600	600	0
12/6/2024 12:40	23404	HONE_T1	35	9	-26	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
12/6/2024 12:40	23403	HONE_T1	58	19	-39	0.18	0.13	-0.05	-0.71	-0.69	0	0	0	0	0	0
12/6/2024 12:42	45501	DERR_T2	0	0	0	0	0	0	0.56	0.61	4	4	0	3600	3600	0
12/6/2024 12:43	55101	WERT_T1	0	0	0	0	0	0	-1.12	-0.87	1	1	0	600	600	0
12/6/2024 12:46	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 12:46	52403	GRPA_T2	3	1	-2	0.3	0	-0.3	-0.13	-0.08	0	0	0	0	0	0
12/6/2024 12:46	52401	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/6/2024 12:47	52502	PROG_T2	0	1	1	0	0	0	0.47	0.44	0	0	0	0	0	0
12/6/2024 12:49	41901	REED_T1	1	5	4	0.1	0.16	0.06	0	0	0	0	0	0	0	0
12/6/2024 12:49	41902	REED_T1	0	0	0	0	0	0	1.13	1.15	0	0	0	0	0	0
12/6/2024 12:54	67402	WAKE_T2	1	0	-1	0.3	0	-0.3	0.24	0.26	0	0	0	0	0	0
12/6/2024 12:54	67401	WAKE_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
12/6/2024 12:59	46002	BERW_T2	0	0	0	0	0	0	-0.71	-0.75	1	1	0	900	900	0
12/6/2024 12:59	45802	HEGI_T2	44	37	-7	1.35	0.66	-0.69	0.11	0.12	1	1	0	900	900	0
12/6/2024 12:59	46004	BERW_T2	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/6/2024 13:03	25501	MADI_T1	6	3	-3	1.45	2	0.55	0.42	0.42	0	0	0	0	0	0
12/6/2024 13:06	14204	EALL_T2	0	1	1	0	1.7	1.7	0.27	0.34	0	0	0	0	0	0
12/6/2024 13:10	14603	SWHI_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/6/2024 13:10	14601	SWHI_T1	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
12/6/2024 13:18	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 13:18	26402	INOR_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
12/6/2024 13:18	10705	CATA_T2	1	1	0	1.4	1.2	-0.2	-0.86	-0.87	1	1	0	900	900	0
12/6/2024 13:18	26401	INOR_T1	1	7	6	6.2	5.4	-0.8	0	0	0	0	0	0	0	0
12/6/2024 13:20	10705	CATA_T2	1	1	0	1.4	1.2	-0.2	-0.86	-0.87	1	1	0	900	900	0
12/6/2024 13:20	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 13:20	14802	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 13:20	14801	TREI_T2	1	1	0	0.8	0.7	-0.1	0.54	0.53	0	0	0	0	0	0
12/6/2024 13:22	14801	TREI_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
12/6/2024 13:22	14802	TREI_T2	0	1	1	0	0.1	0.1	0.45	0.46	0	0	0	0	0	0
12/6/2024 13:24	14801	TREI_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
12/6/2024 13:24	14802	TREI_T2	0	1	1	0	0.1	0.1	0.89	0.93	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/6/2024 13:26	16102	BING_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
12/6/2024 13:26	47402	PENS_T1	7	10	3	2.13	1.74	-0.39	0	0	0	0	0	0	0	0
12/6/2024 13:26	16101	BING_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
12/6/2024 13:26	47401	PENS_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
12/6/2024 13:26	14801	TREI_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
12/6/2024 13:26	47403	PENS_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
12/6/2024 13:26	16103	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/6/2024 13:26	14802	TREI_T2	0	1	1	0	0.1	0.1	0.45	0.46	0	0	0	0	0	0
12/6/2024 13:34	13101	NHAM_T1	0	0	0	0	0	0	-2.88	-2.9	2	2	0	2400	2400	0
12/6/2024 13:34	20603	GRWO_T2	8	4	-4	0.15	0.1	-0.05	0.48	0.43	0	0	0	0	0	0
12/6/2024 13:34	20601	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 13:36	10705	CATA_T2	1	1	0	1.2	0.1	-1.1	-0.88	-0.88	1	1	0	900	900	0
12/6/2024 13:36	10702	CATA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/6/2024 13:39	61101	BERK_T5	5	3	-2	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/6/2024 13:39	61103	BERK_T5	0	1	1	0	0.1	0.1	0.09	0.09	0	0	0	0	0	0
12/6/2024 13:41	47403	PENS_T1	1	1	0	0.5	1.7	1.2	0	0	0	0	0	0	0	0
12/6/2024 13:41	47402	PENS_T1	7	11	4	2.4	0.5	-1.9	0	0	0	0	0	0	0	0
12/6/2024 13:41	47401	PENS_T1	0	0	0	0	0	0	0.15	-0.9	0	0	0	0	0	0
12/6/2024 13:42	61101	BERK_T5	5	3	-2	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/6/2024 13:42	61103	BERK_T5	0	1	1	0	0.1	0.1	0.09	0.09	0	0	0	0	0	0
12/6/2024 13:43	61101	BERK_T5	5	3	-2	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/6/2024 13:43	61103	BERK_T5	0	1	1	0	0.1	0.1	0.09	0.09	0	0	0	0	0	0
12/6/2024 13:43	47402	PENS_T1	7	11	4	2.4	0.5	-1.9	0	0	0	0	0	0	0	0
12/6/2024 13:43	47403	PENS_T1	1	1	0	0.5	1.7	1.2	0	0	0	0	0	0	0	0
12/6/2024 13:43	47401	PENS_T1	0	0	0	0	0	0	0.15	-0.9	0	0	0	0	0	0
12/6/2024 13:45	47402	PENS_T1	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
12/6/2024 13:45	47403	PENS_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
12/6/2024 13:45	47401	PENS_T1	0	0	0	0	0	0	0.15	-0.9	0	0	0	0	0	0
12/6/2024 13:49	24204	PROV_T3	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
12/6/2024 13:49	24201	PROV_T3	1	1	0	6.6	6.7	0.1	-1.42	-1.39	1	1	0	1200	1200	0
12/6/2024 13:51	41901	REED_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/6/2024 13:51	41902	REED_T1	1	14	13	0.3	0.62	0.32	1.17	1.21	0	0	0	0	0	0
12/6/2024 14:04	44201	POIN_T1	128	207	79	0.35	0.55	0.2	-2.19	-2.16	2	2	0	2100	2100	0
12/6/2024 14:05	44201	POIN_T1	128	207	79	0.35	0.55	0.2	-2.19	-2.16	2	2	0	2100	2100	0
12/6/2024 14:06	15101	UPHA_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
12/6/2024 14:06	15102	UPHA_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
12/6/2024 14:06	24801	VALM_T1	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
12/6/2024 14:07	24801	VALM_T1	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
12/6/2024 14:07	67605	WARW_T1	13	13	0	0.41	0.48	0.07	83.96	83.96	0	0	0	0	0	0
12/6/2024 14:07	27604	PIRI_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
12/6/2024 14:08	44701	MUNC_T2	5	2	-3	0.12	0.2	0.08	-1.18	-1.21	0	0	0	0	0	0
12/6/2024 14:08	66703	STRA_T1	1	1	0	1.4	0.3	-1.1	0	0	0	0	0	0	0	0
12/6/2024 14:08	44702	MUNC_T2	39	39	0	0.22	0.33	0.11	0	0	0	0	0	0	0	0
12/6/2024 14:08	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 14:08	44703	MUNC_T2	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
12/6/2024 14:08	66702	STRA_T1	0	0	0	0	0	0	1.83	2.09	6	6	0	4500	4500	0
12/6/2024 14:08	64305	LINC_T1	1	0	-1	0.2	0	-0.2	-0.32	-0.25	0	0	0	0	0	0
12/6/2024 14:08	15803	WGAT_T1	0	0	0	0	0	0	-1.19	-1.32	0	0	0	0	0	0
12/6/2024 14:08	66701	STRA_T1	1	0	-1	0.2	0	-0.2	0.53	0.53	0	0	0	0	0	0
12/6/2024 14:09	67603	WARW_T1	0	0	0	0	0	0	-3.9	-3.83	0	0	0	0	0	0
12/6/2024 14:09	24801	VALM_T1	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
12/6/2024 14:09	49803	UNIV_T1	1	1	0	5.9	6	0.1	-1	-1	0	0	0	0	0	0
12/6/2024 14:09	67605	WARW_T1	13	13	0	0.41	0.48	0.07	0	0	0	0	0	0	0	0
12/6/2024 14:09	27604	PIRI_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
12/6/2024 14:09	44201	POIN_T1	128	207	79	0.35	0.55	0.2	-2.16	-2.45	2	2	0	2100	2100	0
12/6/2024 14:09	66703	STRA_T1	1	1	0	1.4	0.3	-1.1	-0.6	-0.6	0	0	0	0	0	0
12/6/2024 14:09	51306	WIND_T2	0	0	0	0	0	0	0.93	0.99	0	0	0	0	0	0
12/6/2024 14:09	66702	STRA_T1	0	0	0	0	0	0	1.22	1.4	4	4	0	3000	3000	0
12/6/2024 14:09	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/6/2024 14:09	66701	STRA_T1	1	0	-1	0.2	0	-0.2	0.53	0.53	0	0	0	0	0	0
12/6/2024 14:09	45303	WBER_T2	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
12/6/2024 14:10	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/6/2024 14:10	66702	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 14:10	66701	STRA_T1	1	0	-1	0.2	0	-0.2	0.53	0.53	0	0	0	0	0	0
12/6/2024 14:10	27604	PIRI_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
12/6/2024 14:10	66703	STRA_T1	1	1	0	1.4	0.3	-1.1	0	0	0	0	0	0	0	0
12/6/2024 14:10	14601	SWHI_T1	0	0	0	0	0	0	-1.56	-1.54	0	0	0	0	0	0
12/6/2024 14:11	67605	WARW_T1	13	13	0	0.41	0.48	0.07	83.96	83.96	0	0	0	0	0	0
12/6/2024 14:11	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/6/2024 14:11	49803	UNIV_T1	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
12/6/2024 14:11	49804	UNIV_T1	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
12/6/2024 14:11	47401	PENS_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
12/6/2024 14:11	45303	WBER_T2	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
12/6/2024 14:11	47402	PENS_T1	3	1	-2	0.37	0	-0.37	0	0	0	0	0	0	0	0
12/6/2024 14:11	47403	PENS_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
12/6/2024 14:12	45303	WBER_T2	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
12/6/2024 14:12	67603	WARW_T1	0	0	0	0	0	0	-0.98	-0.96	0	0	0	0	0	0
12/6/2024 14:12	67605	WARW_T1	13	13	0	0.41	0.48	0.07	0	0	0	0	0	0	0	0
12/6/2024 14:13	66701	STRA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/6/2024 14:13	66702	STRA_T1	0	0	0	0	0	0	0.61	0.7	2	2	0	1500	1500	0
12/6/2024 14:13	66703	STRA_T1	1	1	0	1.4	0.3	-1.1	0	0	0	0	0	0	0	0
12/6/2024 14:14	66703	STRA_T1	1	1	0	1.4	0.3	-1.1	0	0	0	0	0	0	0	0
12/6/2024 14:14	66701	STRA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/6/2024 14:15	47401	PENS_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
12/6/2024 14:17	47103	MARL_T2	2	12	10	0.35	0.21	-0.14	-0.49	-0.49	0	0	0	0	0	0
12/6/2024 14:17	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 14:17	47102	MARL_T2	11	6	-5	0.22	0.55	0.33	0	0	0	0	0	0	0	0
12/6/2024 14:18	13002	NBET_T2	0	0	0	0	0	0	-1.71	-1.7	2	2	0	2400	2400	0
12/6/2024 14:20	47103	MARL_T2	2	12	10	0.35	0.21	-0.14	-0.49	-0.49	0	0	0	0	0	0
12/6/2024 14:20	47102	MARL_T2	11	6	-5	0.22	0.55	0.33	0	0	0	0	0	0	0	0
12/6/2024 14:20	42201	SHEN_T2	0	0	0	0	0	0	0.06	0.09	1	1	0	600	600	0
12/6/2024 14:20	13001	NBET_T2	0	0	0	0	0	0	-0.79	-0.85	1	1	0	1200	1200	0
12/6/2024 14:20	13005	NBET_T2	0	0	0	0	0	0	-1.44	-1.36	2	2	0	2400	2400	0
12/6/2024 14:22	55002	NEWP_T1	3	2	-1	0.27	0.2	-0.07	-0.18	-0.18	0	0	0	0	0	0
12/6/2024 14:22	13503	MCMI_T2	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
12/6/2024 14:23	55002	NEWP_T1	3	2	-1	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
12/6/2024 14:23	42504	ALTA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/6/2024 14:23	55001	NEWP_T1	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
12/6/2024 14:23	42503	ALTA_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
12/6/2024 14:26	55101	WERT_T1	0	0	0	0	0	0	-1.02	-1.19	1	1	0	600	600	0
12/6/2024 14:34	42902	MIDD_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
12/6/2024 14:34	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 14:36	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 14:36	42902	MIDD_T2	0	0	0	0	0	0	-0.18	-0.14	0	0	0	0	0	0
12/6/2024 14:43	45801	HEGI_T1	0	0	0	0	0	0	-0.2	-0.21	1	1	0	900	900	0
12/6/2024 14:44	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 14:44	63501	HEID_TBK1-2	28	34	6	0.2	0.34	0.14	-0.32	-0.33	1	1	0	900	900	0
12/6/2024 14:48	10702	CATA_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
12/6/2024 14:48	10705	CATA_T2	1	1	0	0.6	0.3	-0.3	-1.75	-1.79	2	2	0	1800	1800	0
12/6/2024 14:48	10701	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 14:49	63501	HEID_TBK1-2	32	28	-4	0.34	0.23	-0.11	-0.32	-0.33	1	1	0	900	900	0
12/6/2024 14:50	10702	CATA_T2	1	1	0	0.8	0.6	-0.2	-0.78	-0.77	0	0	0	0	0	0
12/6/2024 14:50	10701	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 14:50	10705	CATA_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
12/6/2024 14:52	10701	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 14:52	10705	CATA_T2	1	1	0	0.6	0.3	-0.3	-3.58	-3.48	4	4	0	3600	3600	0
12/6/2024 14:52	10702	CATA_T2	1	1	0	0.8	0.6	-0.2	-0.77	-0.77	0	0	0	0	0	0
12/6/2024 14:54	67602	WARW_T2	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
12/6/2024 14:56	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/6/2024 14:56	67602	WARW_T2	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
12/6/2024 14:56	67605	WARW_T1	9	11	2	0.24	0.36	0.12	83.96	83.96	0	0	0	0	0	0
12/6/2024 15:04	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/6/2024 15:04	55002	NEWP_T1	0	2	2	0	0.15	0.15	-0.21	-0.18	0	0	0	0	0	0
12/6/2024 15:05	52002	LING_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
12/6/2024 15:05	54201	PENN_T1	5	10	5	0.26	0.54	0.28	0	0	0	0	0	0	0	0
12/6/2024 15:05	54203	PENN_T1	18	18	0	0.27	0.77	0.5	0	0	1	1	0	600	600	0
12/6/2024 15:05	52004	LING_T2	2	2	0	2.6	2.8	0.2	0.09	0.07	0	0	0	0	0	0
12/6/2024 15:05	44201	POIN_T1	124	127	3	0.33	0.31	-0.02	-2.19	-2.12	2	2	0	2100	2100	0
12/6/2024 15:06	44201	POIN_T1	124	127	3	0.33	0.31	-0.02	-6.58	-6.35	6	6	0	6300	6300	0
12/6/2024 15:08	54203	PENN_T1	18	18	0	0.27	0.77	0.5	0	0.02	1	1	0	600	600	0
12/6/2024 15:08	67602	WARW_T2	0	0	0	0	0	0	0.7	0.57	0	0	0	0	0	0
12/6/2024 15:08	54201	PENN_T1	5	10	5	0.26	0.54	0.28	0	0	0	0	0	0	0	0
12/6/2024 15:09	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 15:09	54602	SUMM_T2	0	0	0	0	0	0	-4.17	-4.18	1	1	0	600	600	0
12/6/2024 15:09	54601	SUMM_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
12/6/2024 15:09	67602	WARW_T2	0	0	0	0	0	0	1.39	1.14	0	0	0	0	0	0
12/6/2024 15:21	24206	PROV_T4	1	1	0	1.8	0	-1.8	0	0	0	0	0	0	0	0
12/6/2024 15:21	24202	PROV_T4	0	0	0	0	0	0	-0.69	-0.73	1	1	0	1200	1200	0
12/6/2024 15:22	66703	STRA_T1	0	0	0	0	0	0	-0.67	-0.72	0	0	0	0	0	0
12/6/2024 15:23	44502	HAMI_T2	1	1	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
12/6/2024 15:23	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 15:23	58402	MORO_T1	4	0	-4	0.18	0	-0.18	-0.67	-0.69	3	3	0	2400	2400	0
12/6/2024 15:23	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/6/2024 15:28	61103	BERK_T5	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
12/6/2024 15:32	12006	HATF_T1	0	0	0	0	0	0	-0.23	-0.33	1	1	0	1200	1200	0
12/6/2024 15:36	55002	NEWP_T1	1	4	3	0.2	0.1	-0.1	-0.19	-0.18	0	0	0	0	0	0
12/6/2024 15:43	48301	ORWI_T1	2	2	0	4.55	5.4	0.85	0	0	0	0	0	0	0	0
12/6/2024 15:46	48301	ORWI_T1	2	2	0	5.3	5.4	0.1	-0.46	-0.57	1	1	0	900	900	0
12/6/2024 15:46	10702	CATA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/6/2024 15:46	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 15:47	45801	HEGI_T1	0	0	0	0	0	0	-0.24	-0.24	1	1	0	900	900	0
12/6/2024 15:57	66502	SMAN_T2	0	0	0	0	0	0	-0.16	0.01	0	0	0	0	0	0
12/6/2024 15:57	66505	SMAN_T2	3	3	0	1.4	0.63	-0.77	0	0	0	0	0	0	0	0
12/6/2024 16:32	61102	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/6/2024 16:32	61103	BERK_T5	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
12/6/2024 17:00	10705	CATA_T2	0	1	1	0	0	0	-0.81	-0.81	1	1	0	900	900	0
12/6/2024 18:30	46002	BERW_T2	0	0	0	0	0	0	-1.29	-1.29	1	1	0	900	900	0
12/6/2024 18:30	46004	BERW_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/6/2024 18:31	45802	HEGI_T2	44	68	24	1.03	1.88	0.85	0	0	0	0	0	0	0	0
12/6/2024 18:31	46206	DANV_T2	0	0	0	0	0	0	1.6	1.61	2	2	0	2100	2100	0
12/6/2024 18:31	42301	MOWR_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
12/6/2024 18:31	45303	WBER_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
12/6/2024 18:31	27604	PIRI_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/6/2024 18:32	24103	EHAZ_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:32	25501	MADI_T1	8	61	53	1.63	0.38	-1.25	0	0	0	0	0	0	0	0
12/6/2024 18:32	45501	DERR_T2	1	2	1	0.2	0	-0.2	-0.41	-0.39	2	2	0	1800	1800	0
12/6/2024 18:32	24101	EHAZ_T1	35	45	10	1.25	0.53	-0.72	0	0	0	0	0	0	0	0
12/6/2024 18:32	24801	VALM_T1	1	1	0	3.1	0	-3.1	-0.3	-0.32	0	0	0	0	0	0
12/6/2024 18:32	24102	EHAZ_T1	4	4	0	0.53	0.33	-0.2	0	0	0	0	0	0	0	0
12/6/2024 18:32	24105	EHAZ_T1	11	16	5	2.63	3.97	1.34	-1.89	-1.93	1	1	0	1200	1200	0
12/6/2024 18:32	25503	MADI_T1	0	0	0	0	0	0	-0.76	-0.79	0	0	0	0	0	0
12/6/2024 18:32	61101	BERK_T5	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
12/6/2024 18:32	67002	STHI_T2	45	62	17	0.17	0.2	0.03	0.62	0.64	0	0	0	0	0	0
12/6/2024 18:32	61103	BERK_T5	1	2	1	0.1	0.15	0.05	0.05	0.04	0	0	0	0	0	0
12/6/2024 18:32	61102	BERK_T5	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/6/2024 18:32	67001	STHI_T2	204	312	108	0.15	0.17	0.02	0	0	0	0	0	0	0	0
12/6/2024 18:33	45501	DERR_T2	1	2	1	0.2	0	-0.2	-0.41	-0.39	2	2	0	1800	1800	0
12/6/2024 18:33	42501	ALTA_T2	0	0	0	0	0	0	0.06	0.06	2	2	0	1200	1200	0
12/6/2024 18:33	24201	PROV_T3	1	2	1	7.6	7.3	-0.3	-1.36	-1.34	1	1	0	1200	1200	0
12/6/2024 18:33	24204	PROV_T3	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
12/6/2024 18:33	46004	BERW_T2	11	1	-10	0.68	0	-0.68	-0.72	-0.69	0	0	0	0	0	0
12/6/2024 18:34	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:34	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:34	45801	HEGI_T1	0	0	0	0	0	0	-0.4	-0.37	1	1	0	900	900	0
12/6/2024 18:34	46005	BERW_T1	2	11	9	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/6/2024 18:35	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:35	44901	SCOT_T2	0	0	0	0	0	0	-0.25	-0.2	0	0	0	0	0	0
12/6/2024 18:35	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.79	-0.8	1	1	0	600	600	0
12/6/2024 18:35	27604	PIRI_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
12/6/2024 18:35	45801	HEGI_T1	0	0	0	0	0	0	-0.4	-0.37	1	1	0	900	900	0
12/6/2024 18:35	24202	PROV_T4	0	0	0	0	0	0	-0.75	-0.76	1	1	0	1200	1200	0
12/6/2024 18:35	24206	PROV_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:35	55002	NEWP_T1	2	4	2	0.15	0.3	0.15	0	0	0	0	0	0	0	0
12/6/2024 18:35	52004	LING_T2	2	2	0	2.5	2.95	0.45	0.09	0.1	0	0	0	0	0	0
12/6/2024 18:36	44201	POIN_T1	0	20	20	0	0.14	0.14	-2.02	-2.07	2	2	0	2100	2100	0
12/6/2024 18:36	44703	MUNC_T2	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/6/2024 18:36	45501	DERR_T2	1	2	1	0.2	0	-0.2	-0.41	-0.39	2	2	0	1800	1800	0
12/6/2024 18:36	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:36	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:36	44701	MUNC_T2	1	1	0	0.1	0.3	0.2	-1.24	-1.25	0	0	0	0	0	0
12/6/2024 18:36	67702	WERN_T2	1	6	5	1.1	1.2	0.1	0	0	0	0	0	0	0	0
12/6/2024 18:36	44702	MUNC_T2	37	50	13	0.24	0.32	0.08	0	0	0	0	0	0	0	0
12/6/2024 18:36	48301	ORWI_T1	2	2	0	5.45	5.6	0.15	0	0	0	0	0	0	0	0
12/6/2024 18:36	59003	MIFF_T1	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
12/6/2024 18:36	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:36	43801	SWIL_T1	6	23	17	1.25	0.5	-0.75	0	0	0	0	0	0	0	0
12/6/2024 18:37	67002	STHI_T2	45	62	17	0.17	0.2	0.03	1.28	1.26	0	0	0	0	0	0
12/6/2024 18:37	46001	BERW_T1	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
12/6/2024 18:37	23404	HONE_T1	22	39	17	0.15	0.15	0	0	0	0	0	0	0	0	0
12/6/2024 18:37	43304	WATS_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/6/2024 18:37	46005	BERW_T1	2	11	9	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/6/2024 18:37	41801	GOCI_T2	3	2	-1	0.93	0.5	-0.43	0	0	0	0	0	0	0	0
12/6/2024 18:37	66504	SMAN_T2	0	0	0	0	0	0	-0.73	-0.82	0	0	0	0	0	0
12/6/2024 18:37	23403	HONE_T1	47	64	17	0.18	0.18	0	-0.71	-0.68	0	0	0	0	0	0
12/6/2024 18:37	67001	STHI_T2	204	312	108	0.15	0.17	0.02	0	0	0	0	0	0	0	0
12/6/2024 18:37	66505	SMAN_T2	3	3	0	0.53	0.8	0.27	0	0	0	0	0	0	0	0
12/6/2024 18:37	55405	SHER_T1	10	10	0	0.89	1.17	0.28	0	0	0	0	0	0	0	0
12/6/2024 18:37	27604	PIRI_T1	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
12/6/2024 18:38	47103	MARL_T2	2	4	2	0.1	0.2	0.1	-0.45	-0.47	0	0	0	0	0	0
12/6/2024 18:38	43304	WATS_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
12/6/2024 18:38	47403	PENS_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
12/6/2024 18:38	41801	GOCI_T2	3	2	-1	0.93	0.5	-0.43	0	0	0	0	0	0	0	0
12/6/2024 18:38	14801	TREI_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/6/2024 18:38	10705	CATA_T2	0	0	0	0	0	0	-0.77	-0.77	1	1	0	900	900	0
12/6/2024 18:38	47402	PENS_T1	4	7	3	1.15	1.47	0.32	0	0	0	0	0	0	0	0
12/6/2024 18:38	44201	POIN_T1	0	20	20	0	0.14	0.14	-2.07	-2.14	2	2	0	2100	2100	0
12/6/2024 18:38	45303	WBER_T2	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
12/6/2024 18:38	14603	SWHI_T1	0	0	0	0	0	0	-1.52	-1.52	2	2	0	1200	1200	0
12/6/2024 18:38	47401	PENS_T1	0	0	0	0	0	0	0.09	0.17	0	0	0	0	0	0
12/6/2024 18:38	47102	MARL_T2	13	13	0	0.22	0.44	0.22	0	0	0	0	0	0	0	0
12/6/2024 18:38	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:38	43304	WATS_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/6/2024 18:38	14802	TREI_T2	0	3	3	0	0.6	0.6	0.63	0.63	0	0	0	0	0	0
12/6/2024 18:38	46101	MACI_T2	0	0	0	0	0	0	-0.56	-0.52	1	1	0	1200	1200	0
12/6/2024 18:38	10805	CHHI_T2	1	10	9	7.9	7.9	0	-0.74	-0.66	1	1	0	600	600	0
12/6/2024 18:39	41902	REED_T1	2	12	10	0.75	0.2	-0.55	0.71	0.71	0	0	0	0	0	0
12/6/2024 18:39	20603	GRWO_T2	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
12/6/2024 18:39	59101	WALK_T2	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
12/6/2024 18:39	49802	UNIV_T2	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
12/6/2024 18:39	20601	GRWO_T2	1	1	0	1.3	2.4	1.1	0	0	0	0	0	0	0	0
12/6/2024 18:39	44801	EDAN_T2	6	10	4	0.12	0.14	0.02	0	0	0	0	0	0	0	0
12/6/2024 18:39	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:39	61701	ELIZ_T1	1	1	0	4.8	5.1	0.3	0.09	0.19	0	0	0	0	0	0
12/6/2024 18:39	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:39	45802	HEGI_T2	44	68	24	1.03	1.88	0.85	-0.18	0.63	1	1	0	900	900	0
12/6/2024 18:39	13503	MCMI_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
12/6/2024 18:39	65503	MOJO_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
12/6/2024 18:39	41901	REED_T1	7	7	0	0.37	0.41	0.04	0	0	0	0	0	0	0	0
12/6/2024 18:39	44802	EDAN_T2	0	0	0	0	0	0	-6.39	-6.43	0	0	0	0	0	0
12/6/2024 18:40	40101	HUNT_T2	472	471	-1	1.28	0.97	-0.31	-3.07	-3.02	0	0	0	0	0	0
12/6/2024 18:40	24801	VALM_T1	1	1	0	3.1	0	-3.1	-0.32	-0.29	0	0	0	0	0	0
12/6/2024 18:40	10705	CATA_T2	0	0	0	0	0	0	-0.77	-0.77	1	1	0	900	900	0
12/6/2024 18:40	63501	HEID_TBK1-2	3	33	30	0.13	0.25	0.12	-1.39	-1.34	3	3	0	2700	2700	0
12/6/2024 18:40	42901	MIDD_T2	2	1	-1	0.5	0	-0.5	-0.41	-0.35	0	0	0	0	0	0
12/6/2024 18:40	42503	ALTA_T2	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
12/6/2024 18:40	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 18:40	61506	EPET_T2	0	0	0	0	0	0	-0.98	-1.03	1	1	0	900	900	0
12/6/2024 18:40	45802	HEGI_T2	44	68	24	1.03	1.88	0.85	-0.18	0.63	1	1	0	900	900	0
12/6/2024 18:40	44802	EDAN_T2	0	0	0	0	0	0	-2.13	-2.14	0	0	0	0	0	0
12/6/2024 18:40	66402	ROBE_T1	0	0	0	0	0	0	-2.04	-2.04	2	2	0	1500	1500	0
12/6/2024 18:40	15101	UPHA_T1	0	0	0	0	0	0	0.03	-0.03	0	0	0	0	0	0
12/6/2024 18:40	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 18:40	44801	EDAN_T2	6	10	4	0.12	0.14	0.02	0	0	0	0	0	0	0	0
12/6/2024 18:40	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/6/2024 18:40	15803	WGAT_T1	0	0	0	0	0	0	-1.29	-1.44	0	0	0	0	0	0
12/6/2024 18:40	64204	KINZ_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
12/6/2024 18:40	64203	KINZ_T1	0	0	0	0	0	0	-0.43	-0.37	1	1	0	600	600	0
12/6/2024 18:41	45501	DERR_T2	1	2	1	0.2	0	-0.2	-0.39	-0.41	2	2	0	1800	1800	0
12/6/2024 18:41	52404	GRPA_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
12/6/2024 18:41	46206	DANV_T2	0	0	0	0	0	0	1.61	1.6	2	2	0	2100	2100	0
12/6/2024 18:41	67702	WERN_T2	1	6	5	1.1	1.2	0.1	0	0	0	0	0	0	0	0
12/6/2024 18:41	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:41	44201	POIN_T1	0	20	20	0	0.14	0.14	-4.13	-4.28	4	4	0	4200	4200	0
12/6/2024 18:41	44301	BEAV_T2	2	0	-2	0.25	0	-0.25	-0.49	-0.55	1	1	0	600	600	0
12/6/2024 18:41	40101	HUNT_T2	472	471	-1	1.28	0.97	-0.31	-1.53	-1.51	0	0	0	0	0	0
12/6/2024 18:41	41902	REED_T1	2	12	10	0.75	0.2	-0.55	0.36	0.36	0	0	0	0	0	0
12/6/2024 18:41	44902	SCOT_T2	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
12/6/2024 18:41	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/6/2024 18:41	66701	STRA_T1	0	0	0	0	0	0	-0.13	-0.08	1	1	0	600	600	0
12/6/2024 18:41	41901	REED_T1	7	7	0	0.37	0.41	0.04	0	0	0	0	0	0	0	0
12/6/2024 18:41	52401	GRPA_T2	2	2	0	0.65	0.3	-0.35	0	0	0	0	0	0	0	0
12/6/2024 18:41	52402	GRPA_T2	8	2	-6	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
12/6/2024 18:41	42802	SELI_T1	0	0	0	0	0	0	-1.72	-1.72	0	0	0	0	0	0
12/6/2024 18:42	49803	UNIV_T1	1	1	0	6	6	0	-0.95	-0.95	0	0	0	0	0	0
12/6/2024 18:42	67001	STHI_T2	204	312	108	0.15	0.17	0.02	0	0	0	0	0	0	0	0
12/6/2024 18:42	61103	BERK_T5	1	2	1	0.1	0.15	0.05	0.04	0.08	0	0	0	0	0	0
12/6/2024 18:42	10702	CATA_T2	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
12/6/2024 18:42	67702	WERN_T2	1	6	5	1.1	1.2	0.1	0	0	0	0	0	0	0	0
12/6/2024 18:42	61101	BERK_T5	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
12/6/2024 18:42	67002	STHI_T2	45	62	17	0.17	0.2	0.03	1.28	1.26	0	0	0	0	0	0
12/6/2024 18:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:42	65503	MOJO_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
12/6/2024 18:42	13001	NBET_T2	0	0	0	0	0	0	-0.83	-0.82	1	1	0	1200	1200	0
12/6/2024 18:42	67603	WARW_T1	0	0	0	0	0	0	-2.33	-2.45	0	0	0	0	0	0
12/6/2024 18:42	40702	FFLD_T1	29	102	73	0.2	0.23	0.03	0	0	0	0	0	0	0	0
12/6/2024 18:42	63501	HEID_TBK1-2	3	33	30	0.13	0.25	0.12	-0.46	-0.45	1	1	0	900	900	0
12/6/2024 18:42	20601	GRWO_T2	1	1	0	1.3	2.4	1.1	0	0	0	0	0	0	0	0
12/6/2024 18:42	40101	HUNT_T2	472	471	-1	1.28	0.97	-0.31	-1.53	-1.51	0	0	0	0	0	0
12/6/2024 18:42	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:42	14802	TREI_T2	0	3	3	0	0.6	0.6	0.63	0.63	0	0	0	0	0	0
12/6/2024 18:42	52401	GRPA_T2	2	2	0	0.65	0.3	-0.35	0	0	0	0	0	0	0	0
12/6/2024 18:42	67605	WARW_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
12/6/2024 18:42	20603	GRWO_T2	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
12/6/2024 18:42	52004	LING_T2	2	2	0	2.5	2.95	0.45	0.1	0.09	0	0	0	0	0	0
12/6/2024 18:42	40703	FFLD_T1	3	4	1	0.43	0.55	0.12	0	0	0	0	0	0	0	0
12/6/2024 18:42	40701	FFLD_T1	32	36	4	0.47	0.6	0.13	0	0	0	0	0	0	0	0
12/6/2024 18:42	10801	CHHI_T1	0	0	0	0	0	0	-1.27	-1.35	2	2	0	1500	1500	0
12/6/2024 18:42	61102	BERK_T5	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/6/2024 18:42	52402	GRPA_T2	8	2	-6	0.43	0.2	-0.23	-0.71	-0.73	0	0	0	0	0	0
12/6/2024 18:42	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:42	14801	TREI_T2	1	1	0	0.1	0	-0.1	0.75	0.74	0	0	0	0	0	0
12/6/2024 18:43	47402	PENS_T1	4	7	3	1.15	1.47	0.32	0	0	0	0	0	0	0	0
12/6/2024 18:43	44301	BEAV_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
12/6/2024 18:43	47403	PENS_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
12/6/2024 18:43	64305	LINC_T1	0	0	0	0	0	0	-0.49	-0.56	0	0	0	0	0	0
12/6/2024 18:43	47401	PENS_T1	0	0	0	0	0	0	0.09	0.17	0	0	0	0	0	0
12/6/2024 18:43	46005	BERW_T1	2	11	9	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/6/2024 18:43	51306	WIND_T2	0	0	0	0	0	0	0.33	0.37	0	0	0	0	0	0
12/6/2024 18:43	65207	PRIN_T4	3	2	-1	1.4	1	-0.4	0	0	1	1	0	1200	1200	0
12/6/2024 18:43	56501	ROCK_T2	1	4	3	1	0.2	-0.8	-1.5	-1.46	0	0	0	0	0	0
12/6/2024 18:43	61101	BERK_T5	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
12/6/2024 18:43	61102	BERK_T5	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/6/2024 18:43	41301	FISH_T1	1	1	0	2.3	2.4	0.1	-0.26	-0.26	0	0	0	0	0	0
12/6/2024 18:43	60502	NMAN_T2	0	0	0	0	0	0	-0.29	-0.33	0	0	0	0	0	0
12/6/2024 18:43	46001	BERW_T1	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
12/6/2024 18:43	65206	PRIN_T4	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/6/2024 18:43	42902	MIDD_T2	2	1	-1	0.5	0	-0.5	-0.41	-0.35	0	0	0	0	0	0
12/6/2024 18:43	67605	WARW_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
12/6/2024 18:43	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:43	57203	ROSS_T1	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
12/6/2024 18:43	61103	BERK_T5	1	2	1	0.1	0.15	0.05	0.04	0.08	0	0	0	0	0	0
12/6/2024 18:43	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 18:44	66701	STRA_T1	0	0	0	0	0	0	-0.13	-0.08	1	1	0	600	600	0
12/6/2024 18:44	44505	HAMI_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
12/6/2024 18:44	55101	WERT_T1	0	0	0	0	0	0	-1.45	-1.5	1	1	0	600	600	0
12/6/2024 18:44	47402	PENS_T1	4	7	3	1.15	1.47	0.32	0	0	0	0	0	0	0	0
12/6/2024 18:44	44502	HAMI_T2	1	1	0	2.2	2.6	0.4	0	0	0	0	0	0	0	0
12/6/2024 18:44	54602	SUMM_T2	0	0	0	0	0	0	-3.95	-4.13	1	1	0	600	600	0
12/6/2024 18:44	58102	NEKI_T1	1	1	0	0.2	0.5	0.3	0.24	0.24	0	0	0	0	0	0
12/6/2024 18:44	65206	PRIN_T4	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 18:44	45501	DERR_T2	1	2	1	0.2	0	-0.2	-0.39	-0.41	2	2	0	1800	1800	0
12/6/2024 18:44	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:44	107105	CATA_T2	0	0	0	0	0	0	-1.54	-1.54	2	2	0	1800	1800	0
12/6/2024 18:44	59101	WALK_T2	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
12/6/2024 18:44	65601	QVIL_T2	0	0	0	0	0	0	-0.95	-1.01	1	1	0	900	900	0
12/6/2024 18:44	47401	PENS_T1	0	0	0	0	0	0	0.09	0.17	0	0	0	0	0	0
12/6/2024 18:44	53501	EVIL_T2	0	0	0	0	0	0	-1.46	-1.41	2	2	0	1200	1200	0
12/6/2024 18:44	53502	EVIL_T2	0	11	11	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:44	65207	PRIN_T4	3	2	-1	1.4	1	-0.4	0	0	0	0	0	0	0	0
12/6/2024 18:44	47403	PENS_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
12/6/2024 18:44	25501	MADI_T1	8	61	53	1.63	0.38	-1.25	-0.18	-0.17	1	1	0	600	600	0
12/6/2024 18:44	62106	ELAN_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/6/2024 18:44	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 18:44	25402	LAHA_T2	38	25	-13	0.72	0.62	-0.1	-0.89	-0.88	0	0	0	0	0	0
12/6/2024 18:44	64201	KINZ_T1	0	0	0	0	0	0	-0.94	-0.33	4	3	-1	2100	1500	-600
12/6/2024 18:44	43304	WATS_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/6/2024 18:44	64204	KINZ_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
12/6/2024 18:45	44802	EDAN_T2	0	0	0	0	0	0	-2.13	-2.14	0	0	0	0	0	0
12/6/2024 18:45	24103	EHAZ_T1	0	8	8	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:45	53101	WTWN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 18:45	45303	WBER_T2	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
12/6/2024 18:45	53501	EVIL_T2	0	0	0	0	0	0	-1.46	-1.41	2	2	0	1200	1200	0
12/6/2024 18:45	40101	HUNT_T2	452	444	-8	1.26	0.84	-0.42	-1.53	-1.51	0	0	0	0	0	0
12/6/2024 18:45	44801	EDAN_T2	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
12/6/2024 18:45	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:45	52001	LING_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
12/6/2024 18:45	55002	NEWP_T1	1	4	3	0.1	0.73	0.63	0	0	0	0	0	0	0	0
12/6/2024 18:45	24101	EHAZ_T1	41	53	12	1.03	0.54	-0.49	0	0	0	0	0	0	0	0
12/6/2024 18:45	66504	SMAN_T2	0	0	0	0	0	0	-0.36	-0.41	0	0	0	0	0	0
12/6/2024 18:45	53601	DALM_T2	0	1	1	0	0.2	0.2	-0.81	-0.83	1	1	0	900	900	0
12/6/2024 18:45	67402	WAKE_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
12/6/2024 18:45	54203	PENN_T1	18	18	0	0.36	0.91	0.55	0.01	0.01	1	1	0	600	600	0
12/6/2024 18:45	53502	EVIL_T2	11	0	-11	0.66	0	-0.66	0	0	0	0	0	0	0	0
12/6/2024 18:45	54201	PENN_T1	2	10	8	0.15	0.42	0.27	0	0	0	0	0	0	0	0
12/6/2024 18:45	24102	EHAZ_T1	3	6	3	0.33	0.45	0.12	0	0	0	0	0	0	0	0
12/6/2024 18:45	24105	EHAZ_T1	6	16	10	3.97	2.22	-1.75	0	0	0	0	0	0	0	0
12/6/2024 18:45	57201	ROSS_T1	0	0	0	0	0	0	-0.56	-0.72	0	0	0	0	0	0
12/6/2024 18:45	22602	KIMB_T1	0	8	8	0	0.13	0.13	0.22	0.2	0	0	0	0	0	0
12/6/2024 18:45	55001	NEWP_T1	0	0	0	0	0	0	-0.8	-0.82	1	1	0	600	600	0
12/6/2024 18:45	66505	SMAN_T2	3	3	0	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
12/6/2024 18:45	42501	ALTA_T2	0	0	0	0	0	0	0.03	0.06	1	1	0	600	600	0
12/6/2024 18:45	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 18:45	24104	EHAZ_T1	0	0	0	0	0	0	-0.85	-0.85	1	1	0	1200	1200	0
12/6/2024 18:46	41902	REED_T1	4	11	7	0.4	0.87	0.47	0.36	0.36	0	0	0	0	0	0
12/6/2024 18:46	66701	STRA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:46	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:46	60502	NMAN_T2	0	0	0	0	0	0	-0.29	-0.33	0	0	0	0	0	0
12/6/2024 18:46	44802	EDAN_T2	0	0	0	0	0	0	-2.13	-2.14	0	0	0	0	0	0
12/6/2024 18:46	67605	WARW_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
12/6/2024 18:46	47402	PENS_T1	7	3	-4	1.27	1.1	-0.17	0	0	0	0	0	0	0	0
12/6/2024 18:46	17401	FOHI_T1	0	0	0	0	0	0	-0.97	-0.99	0	0	0	0	0	0
12/6/2024 18:46	57205	ROSS_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
12/6/2024 18:46	67001	STHI_T2	252	504	252	0.16	0.24	0.08	0	0	0	0	0	0	0	0
12/6/2024 18:46	14601	SWHI_T1	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
12/6/2024 18:46	46102	MACI_T1	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
12/6/2024 18:46	63804	HEMP_T1	1	2	1	6.4	3.2	-3.2	0	0	0	0	0	0	0	0
12/6/2024 18:46	67002	STHI_T2	57	109	52	0.19	0.24	0.05	0	0	0	0	0	0	0	0
12/6/2024 18:46	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:46	41901	REED_T1	7	7	0	0.41	0.43	0.02	0	0	0	0	0	0	0	0
12/6/2024 18:46	13104	NHAM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/6/2024 18:46	44801	EDAN_T2	10	9	-1	0.13	0.2	0.07	-0.61	-0.59	0	0	0	0	0	0
12/6/2024 18:46	13101	NHAM_T1	1	4	3	0.4	0.35	-0.05	-2.81	-2.75	2	2	0	2400	2400	0
12/6/2024 18:46	63802	HEMP_T1	0	0	0	0	0	0	0.14	0.19	0	0	0	0	0	0
12/6/2024 18:46	10705	CATA_T2	0	0	0	0	0	0	-0.77	-0.77	1	1	0	900	900	0
12/6/2024 18:46	16102	BING_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
12/6/2024 18:46	47401	PENS_T1	0	0	0	0	0	0	0.09	0.17	0	0	0	0	0	0
12/6/2024 18:46	13005	NBET_T2	0	0	0	0	0	0	-0.82	-0.8	1	1	0	1200	1200	0
12/6/2024 18:46	66702	STRA_T1	0	0	0	0	0	0	0.48	0.46	2	2	0	1500	1500	0
12/6/2024 18:46	63501	HEID_TBK1-2	32	36	4	0.25	0.4	0.15	-0.46	-0.45	1	1	0	900	900	0
12/6/2024 18:46	60801	BUCK_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
12/6/2024 18:46	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/6/2024 18:47	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 18:47	44801	EDAN_T2	10	9	-1	0.13	0.2	0.07	0	0	0	0	0	0	0	0
12/6/2024 18:47	63802	HEMP_T1	0	0	0	0	0	0	0.14	0.19	0	0	0	0	0	0
12/6/2024 18:47	43102	SMIL_T2	3	6	3	0.13	0.27	0.14	-0.85	-0.84	1	1	0	600	600	0
12/6/2024 18:47	67603	WARW_T1	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
12/6/2024 18:47	53503	EVIL_T2	0	0	0	0	0	0	-2.92	-2.81	4	4	0	2400	2400	0
12/6/2024 18:47	67605	WARW_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
12/6/2024 18:47	53901	HALI_T2	0	5	5	0	0.32	0.32	-1.25	-1.28	0	0	0	0	0	0
12/6/2024 18:47	53502	EVIL_T2	11	0	-11	0.66	0	-0.66	0	0	0	0	0	0	0	0
12/6/2024 18:47	67702	WERN_T2	6	1	-5	0.45	0	-0.45	0	0	0	0	0	0	0	0
12/6/2024 18:47	60502	NMAN_T2	0	0	0	0	0	0	-0.29	-0.33	0	0	0	0	0	0
12/6/2024 18:47	60301	TWVA_T2	0	0	0	0	0	0	-6.38	-6.36	4	4	0	3600	3600	0
12/6/2024 18:47	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:47	66702	STRA_T1	0	0	0	0	0	0	0.48	0.46	2	2	0	1500	1500	0
12/6/2024 18:47	63202	MGTN_T2	1	0	-1	0.8	0	-0.8	-0.2	-0.26	1	1	0	900	900	0
12/6/2024 18:47	54506	ENOL_T2	0	0	0	0	0	0	0.43	0.5	0	0	0	0	0	0
12/6/2024 18:47	67602	WARW_T2	0	0	0	0	0	0	0.45	0.39	0	0	0	0	0	0
12/6/2024 18:47	67002	STHI_T2	57	109	52	0.19	0.24	0.05	0	0	0	0	0	0	0	0
12/6/2024 18:47	67001	STHI_T2	252	504	252	0.16	0.24	0.08	0.14	0.16	0	0	0	0	0	0
12/6/2024 18:47	43304	WATS_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/6/2024 18:47	44201	POIN_T1	0	65	65	0	0.22	0.22	-4.13	-4.28	4	4	0	4200	4200	0
12/6/2024 18:47	63804	HEMP_T1	1	2	1	6.4	3.2	-3.2	0	0	0	0	0	0	0	0
12/6/2024 18:47	44802	EDAN_T2	0	0	0	0	0	0	-2.13	-2.14	0	0	0	0	0	0
12/6/2024 18:47	66701	STRA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:47	43101	SMIL_T2	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
12/6/2024 18:47	53902	HALI_T2	1	1	0	5.5	6	0.5	0	0	0	0	0	0	0	0
12/6/2024 18:47	44905	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:47	53903	HALI_T2	2	2	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
12/6/2024 18:48	13005	NBET_T2	0	0	0	0	0	0	-0.82	-0.8	1	1	0	1200	1200	0
12/6/2024 18:48	60803	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:48	42902	MIDD_T2	1	0	-1	0.1	0	-0.1	-0.81	-0.71	0	0	0	0	0	0
12/6/2024 18:48	56801	BENV_T1	0	4	4	0	0.48	0.48	0	0	0	0	0	0	0	0
12/6/2024 18:48	53101	WTWN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 18:48	66701	STRA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:48	66702	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:48	43102	SMIL_T2	3	6	3	0.13	0.27	0.14	0	0	0	0	0	0	0	0
12/6/2024 18:48	40703	FFLD_T1	4	4	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
12/6/2024 18:48	44301	BEAV_T2	0	1	1	0	0	0	-0.49	-0.55	1	1	0	600	600	0
12/6/2024 18:48	14603	SWHI_T1	0	0	0	0	0	0	-1.52	-1.52	2	2	0	1200	1200	0
12/6/2024 18:48	58402	MORO_T1	0	1	1	0	0.1	0.1	-0.6	-0.58	3	3	0	2400	2400	0
12/6/2024 18:48	66505	SMAN_T2	3	3	0	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
12/6/2024 18:48	16103	BING_T2	0	0	0	0	0	0	-1.47	-1.47	1	1	0	900	900	0
12/6/2024 18:48	40701	FFLD_T1	33	50	17	0.58	0.6	0.02	0	0	0	0	0	0	0	0
12/6/2024 18:48	43101	SMIL_T2	1	1	0	1.3	0.9	-0.4	-0.55	-0.59	0	0	0	0	0	0
12/6/2024 18:48	42903	MIDD_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
12/6/2024 18:48	10801	CHHI_T1	0	0	0	0	0	0	-2.54	-2.7	4	4	0	3000	3000	0
12/6/2024 18:48	53102	WTWN_T1	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
12/6/2024 18:48	47401	PENS_T1	0	0	0	0	0	0	0.09	0.17	0	0	0	0	0	0
12/6/2024 18:48	56803	BENV_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
12/6/2024 18:48	47402	PENS_T1	7	3	-4	1.27	1.1	-0.17	0	0	0	0	0	0	0	0
12/6/2024 18:48	43304	WATS_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/6/2024 18:48	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:48	55101	WERT_T1	0	0	0	0	0	0	-1.45	-1.5	1	1	0	600	600	0
12/6/2024 18:48	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:48	64101	REFR_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
12/6/2024 18:48	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:48	40702	FFLD_T1	40	109	69	0.21	0.29	0.08	0	0	0	0	0	0	0	0
12/6/2024 18:48	10805	CHHI_T2	1	10	9	7.9	2.14	-5.76	-0.74	-0.66	1	1	0	600	600	0
12/6/2024 18:48	58401	MORO_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/6/2024 18:49	47401	PENS_T1	0	0	0	0	0	0	0.09	0.17	0	0	0	0	0	0
12/6/2024 18:49	67602	WARW_T2	0	0	0	0	0	0	0.9	0.78	0	0	0	0	0	0
12/6/2024 18:49	60201	ATGL_T2	0	0	0	0	0	0	-0.03	-0.15	0	0	0	0	0	0
12/6/2024 18:49	67601	WARW_T2	0	0	0	0	0	0	-0.49	-0.46	0	0	0	0	0	0
12/6/2024 18:49	41801	GOCI_T2	2	2	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
12/6/2024 18:49	56501	ROCK_T2	1	29	28	0.4	0.19	-0.21	-1.5	-1.46	0	0	0	0	0	0
12/6/2024 18:49	54203	PENN_T1	18	18	0	0.36	0.91	0.55	0.01	0.01	1	1	0	600	600	0
12/6/2024 18:49	47402	PENS_T1	7	3	-4	1.27	1.1	-0.17	0	0	0	0	0	0	0	0
12/6/2024 18:49	49804	UNIV_T1	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
12/6/2024 18:49	53101	WTWN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 18:49	54201	PENN_T1	2	10	8	0.15	0.42	0.27	0	0	0	0	0	0	0	0
12/6/2024 18:49	63501	HEID_TBK1-2	32	36	4	0.25	0.4	0.15	-0.46	-0.45	1	1	0	900	900	0
12/6/2024 18:49	53102	WTWN_T1	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
12/6/2024 18:49	63601	LETO_T1	0	0	0	0	0	0	0.91	0.96	1	1	0	900	900	0
12/6/2024 18:49	49803	UNIV_T1	1	1	0	6.3	5.9	-0.4	0	0	0	0	0	0	0	0
12/6/2024 18:49	63401	HONY_T1	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
12/6/2024 18:49	43304	WATS_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/6/2024 18:50	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:50	54601	SUMM_T2	0	2	2	0	0.5	0.5	0	0	2	2	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/6/2024 18:50	67702	WERN_T2	6	1	-5	0.45	0	-0.45	0	0	0	0	0	0	0	0
12/6/2024 18:50	58401	MORO_T1	1	1	0	0.5	0	-0.5	-0.83	-0.87	1	1	0	600	600	0
12/6/2024 18:50	13002	NBET_T2	0	0	0	0	0	0	-0.29	-0.29	1	1	0	1200	1200	0
12/6/2024 18:50	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 18:50	51306	WIND_T2	0	0	0	0	0	0	0.33	0.37	0	0	0	0	0	0
12/6/2024 18:50	67603	WARW_T1	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
12/6/2024 18:50	10702	CATA_T2	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
12/6/2024 18:50	44301	BEAV_T2	0	1	1	0	0	0	-0.49	-0.55	1	1	0	600	600	0
12/6/2024 18:50	12006	HATF_T1	2	2	0	1.05	0.15	-0.9	0.78	0.74	0	0	0	0	0	0
12/6/2024 18:50	42903	MIDD_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
12/6/2024 18:50	12005	HATF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/6/2024 18:50	10705	CATA_T2	0	0	0	0	0	0	-0.77	-0.77	1	1	0	900	900	0
12/6/2024 18:50	66703	STRA_T1	0	0	0	0	0	0	-0.83	-0.75	0	0	0	0	0	0
12/6/2024 18:50	42902	MIDD_T2	1	0	-1	0.1	0	-0.1	-0.41	-0.35	0	0	0	0	0	0
12/6/2024 18:50	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:50	66701	STRA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:50	14601	SWHI_T1	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
12/6/2024 18:50	55002	NEWP_T1	1	4	3	0.1	0.73	0.63	-0.18	-0.18	0	0	0	0	0	0
12/6/2024 18:51	53501	EVIL_T2	0	0	0	0	0	0	-1.46	-1.41	2	2	0	1200	1200	0
12/6/2024 18:51	59101	WALK_T2	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
12/6/2024 18:51	24801	VALM_T1	1	0	-1	2.6	0	-2.6	0	0	0	0	0	0	0	0
12/6/2024 18:51	45702	LIND_T2	1	1	0	0.7	1.1	0.4	-0.5	-0.5	0	0	0	0	0	0
12/6/2024 18:51	53502	EVIL_T2	11	0	-11	0.66	0	-0.66	0	0	0	0	0	0	0	0
12/6/2024 18:51	64204	KINZ_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
12/6/2024 18:51	66702	STRA_T1	0	0	0	0	0	0	1.38	1.4	6	6	0	4500	4500	0
12/6/2024 18:51	67002	STHI_T2	57	109	52	0.19	0.24	0.05	0.63	0.65	0	0	0	0	0	0
12/6/2024 18:51	55101	WERT_T1	0	0	0	0	0	0	-2.89	-3	2	2	0	1200	1200	0
12/6/2024 18:51	61502	EPET_T1	0	0	0	0	0	0	-1.07	-1.12	0	0	0	0	0	0
12/6/2024 18:51	57201	ROSS_T1	0	0	0	0	0	0	-0.56	-0.72	0	0	0	0	0	0
12/6/2024 18:51	64202	KINZ_T1	2	0	-2	0.1	0	-0.1	0.7	0.73	0	0	0	0	0	0
12/6/2024 18:51	63501	HEID_TBK1-2	32	36	4	0.25	0.4	0.15	-0.45	-0.47	1	1	0	900	900	0
12/6/2024 18:51	67001	STHI_T2	252	504	252	0.16	0.24	0.08	0	0	0	0	0	0	0	0
12/6/2024 18:51	51306	WIND_T2	0	0	0	0	0	0	0.33	0.37	0	0	0	0	0	0
12/6/2024 18:51	67605	WARW_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
12/6/2024 18:51	42201	SHEN_T2	0	0	0	0	0	0	0.16	0.15	1	1	0	600	600	0
12/6/2024 18:51	52502	PROG_T2	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
12/6/2024 18:51	66701	STRA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:52	42903	MIDD_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
12/6/2024 18:52	52403	GRPA_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
12/6/2024 18:52	46206	DANV_T2	0	0	0	0	0	0	1.6	1.54	2	2	0	2100	2100	0
12/6/2024 18:52	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:52	52402	GRPA_T2	0	6	6	0	0.4	0.4	0	0	0	0	0	0	0	0
12/6/2024 18:52	42902	MIDD_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/6/2024 18:52	64802	MONE_T2	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
12/6/2024 18:52	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:52	14601	SWHI_T1	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
12/6/2024 18:52	67702	WERN_T2	6	1	-5	0.45	0	-0.45	0	0	0	0	0	0	0	0
12/6/2024 18:52	52401	GRPA_T2	2	1	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/6/2024 18:53	55001	NEWP_T1	0	0	0	0	0	0	-0.82	-0.81	1	1	0	600	600	0
12/6/2024 18:53	53501	EVIL_T2	0	0	0	0	0	0	-1.41	-1.45	2	2	0	1200	1200	0
12/6/2024 18:53	47103	MARL_T2	3	8	5	0.13	0.2	0.07	-0.47	-0.47	0	0	0	0	0	0
12/6/2024 18:53	42903	MIDD_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
12/6/2024 18:53	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:53	66701	STRA_T1	0	5	5	0	0	0	-0.08	-0.11	1	1	0	600	600	0
12/6/2024 18:53	67702	WERN_T2	6	1	-5	0.45	0	-0.45	0	0	0	0	0	0	0	0
12/6/2024 18:53	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
12/6/2024 18:53	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 18:53	53502	EVIL_T2	11	0	-11	0.66	0	-0.66	0	0	0	0	0	0	0	0
12/6/2024 18:53	47401	PENS_T1	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
12/6/2024 18:53	47402	PENS_T1	7	3	-4	1.27	1.1	-0.17	0	0	0	0	0	0	0	0
12/6/2024 18:53	42902	MIDD_T2	1	0	-1	0.1	0	-0.1	-0.35	-0.42	0	0	0	0	0	0
12/6/2024 18:53	47102	MARL_T2	13	13	0	0.39	0.57	0.18	0	0	0	0	0	0	0	0
12/6/2024 18:53	58401	MORO_T1	1	1	0	0.5	0	-0.5	-0.87	-0.92	1	1	0	600	600	0
12/6/2024 18:53	55002	NEWP_T1	1	4	3	0.1	0.73	0.63	0	0	0	0	0	0	0	0
12/6/2024 18:53	67605	WARW_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
12/6/2024 18:54	55101	WERT_T1	0	0	0	0	0	0	-1.5	-1.51	1	1	0	600	600	0
12/6/2024 18:54	61102	BERK_T5	1	3	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/6/2024 18:54	14802	TREI_T2	3	3	0	1	0.1	-0.9	0.63	0.65	0	0	0	0	0	0
12/6/2024 18:54	14801	TREI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/6/2024 18:54	61103	BERK_T5	2	35	33	0.15	0.13	-0.02	0.08	0.07	0	0	0	0	0	0
12/6/2024 18:55	64101	REFR_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
12/6/2024 18:55	55105	WERT_T1	0	0	0	0	0	0	-0.36	-0.35	1	1	0	900	900	0
12/6/2024 18:55	67605	WARW_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
12/6/2024 18:55	44201	POIN_T1	0	65	65	0	0.22	0.22	-2.14	-2.06	2	2	0	2100	2100	0
12/6/2024 18:56	55101	WERT_T1	0	0	0	0	0	0	-1.5	-1.51	1	1	0	600	600	0
12/6/2024 18:56	67602	WARW_T2	0	0	0	0	0	0	0.78	0.69	0	0	0	0	0	0
12/6/2024 18:56	53902	HALI_T2	1	1	0	5.5	6	0.5	0	0	0	0	0	0	0	0
12/6/2024 18:56	53903	HALI_T2	2	2	0	1.1	1.3	0.2	-0.03	-0.04	0	0	0	0	0	0
12/6/2024 18:56	53901	HALI_T2	0	5	5	0	0.32	0.32	0	0	0	0	0	0	0	0
12/6/2024 18:57	66701	STRA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:57	64802	MONE_T2	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
12/6/2024 18:57	52004	LING_T2	2	2	0	2.65	2.95	0.3	0.09	0.09	0	0	0	0	0	0
12/6/2024 18:57	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:57	53501	EVIL_T2	0	0	0	0	0	0	-1.41	-1.45	2	2	0	1200	1200	0
12/6/2024 18:57	66702	STRA_T1	0	0	0	0	0	0	0.46	0.47	2	2	0	1500	1500	0
12/6/2024 18:57	53502	EVIL_T2	11	0	-11	0.66	0	-0.66	0	0	0	0	0	0	0	0
12/6/2024 18:58	58401	MORO_T1	1	1	0	0.5	0	-0.5	-0.87	-0.92	1	1	0	600	600	0
12/6/2024 18:58	66703	STRA_T1	0	0	0	0	0	0	-0.75	-0.82	0	0	0	0	0	0
12/6/2024 18:58	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/6/2024 18:58	66701	STRA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 18:59	63501	HEID_TBK1-2	32	36	4	0.25	0.4	0.15	-0.45	-0.47	1	1	0	900	900	0
12/6/2024 19:00	10705	CATA_T2	0	0	0	0	0	0	-0.77	-0.78	1	1	0	900	900	0
12/6/2024 19:00	66703	STRA_T1	0	0	0	0	0	0	-0.75	-0.82	0	0	0	0	0	0
12/6/2024 19:00	66701	STRA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 19:01	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 19:06	66701	STRA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
12/6/2024 19:06	66703	STRA_T1	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
12/6/2024 19:11	66505	SMAN_T2	3	3	0	0.6	0.87	0.27	0	0	0	0	0	0	0	0
12/6/2024 19:11	66502	SMAN_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
12/6/2024 19:13	66505	SMAN_T2	3	3	0	0.6	0.87	0.27	0	0	0	0	0	0	0	0
12/6/2024 19:13	66502	SMAN_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
12/6/2024 19:28	14204	EALL_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
12/6/2024 19:56	64904	MILL_T1	0	1	1	0	0	0	-0.27	-0.25	0	0	0	0	0	0
12/6/2024 20:00	10705	CATA_T2	0	0	0	0	0	0	-0.8	-0.78	1	1	0	900	900	0
12/7/2024 0:56	47401	PENS_T1	0	1	1	0	0.2	0.2	-0.08	-0.07	0	0	0	0	0	0
12/7/2024 1:51	24801	VALM_T1	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
12/7/2024 8:23	58102	NEKI_T1	0	1	1	0	0.7	0.7	0	0	1	1	0	1200	1200	0
12/7/2024 8:28	45501	DERR_T2	0	2	2	0	0	0	-0.64	-0.61	2	2	0	1800	1800	0
12/7/2024 8:30	45501	DERR_T2	0	0	0	0	0	0	-0.64	-0.61	2	2	0	1800	1800	0
12/7/2024 8:41	46204	DANV_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/7/2024 8:41	46203	DANV_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/7/2024 8:41	46206	DANV_T2	1	6	5	0.4	0	-0.4	1.48	1.27	2	2	0	2100	2100	0
12/7/2024 8:42	46204	DANV_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/7/2024 8:42	46206	DANV_T2	1	6	5	0.4	0	-0.4	1.48	1.27	2	2	0	2100	2100	0
12/7/2024 8:42	46203	DANV_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/7/2024 8:45	46203	DANV_T2	0	0	0	0	0	0	-1.83	-1.8	0	0	0	0	0	0
12/7/2024 8:45	46206	DANV_T2	0	0	0	0	0	0	1.48	1.27	2	2	0	2100	2100	0
12/7/2024 8:45	46204	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/7/2024 8:49	41903	REED_T1	0	0	0	0	0	0	-0.51	-0.52	1	1	0	1200	1200	0
12/7/2024 8:49	41902	REED_T1	12	28	16	0.51	0.33	-0.18	0	0	0	0	0	0	0	0
12/7/2024 8:51	65802	RTWN_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
12/7/2024 8:51	65803	RTWN_T2	22	18	-4	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
12/7/2024 8:51	55101	WERT_T1	0	0	0	0	0	0	-2.46	-2.28	1	1	0	600	600	0
12/7/2024 8:52	55101	WERT_T1	0	0	0	0	0	0	-2.28	-2.34	1	1	0	600	600	0
12/7/2024 8:54	44905	SCOT_T1	72	45	-27	1	0.39	-0.61	0	0	0	0	0	0	0	0
12/7/2024 8:58	53501	EVIL_T2	3	3	0	0.87	2	1.13	0	0	0	0	0	0	0	0
12/7/2024 8:59	24701	FLND_T2	9	9	0	0.2	1	0.8	0	0	0	0	0	0	0	0
12/7/2024 8:59	24702	FLND_T2	7	11	4	0.6	1.65	1.05	-0.56	-0.75	2	2	0	2400	2400	0
12/7/2024 9:00	55101	WERT_T1	0	0	0	0	0	0	-4.56	-4.68	2	2	0	1200	1200	0
12/7/2024 9:00	40504	CRES_T1	5	15	10	0.1	0.22	0.12	0	0	0	0	0	0	0	0
12/7/2024 9:00	41902	REED_T1	21	16	-5	0.55	0.43	-0.12	1.04	0.99	0	0	0	0	0	0
12/7/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
12/7/2024 9:00	41903	REED_T1	0	0	0	0	0	0	-0.52	-0.55	1	1	0	1200	1200	0
12/7/2024 9:07	67503	WEWI_T2	1	1	0	5.1	5.5	0.4	-0.51	-0.57	0	0	0	0	0	0
12/7/2024 9:07	66703	STRA_T1	0	0	0	0	0	0	-0.62	-0.69	0	0	0	0	0	0
12/7/2024 9:07	66701	STRA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/7/2024 9:08	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 9:08	41902	REED_T1	21	16	-5	0.55	0.43	-0.12	1.98	1.96	0	0	0	0	0	0
12/7/2024 9:08	66701	STRA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/7/2024 9:11	58102	NEKI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 9:12	46203	DANV_T2	0	2	2	0	0.3	0.3	-1.82	-1.87	0	0	0	0	0	0
12/7/2024 9:12	41301	FISH_T1	4	6	2	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
12/7/2024 9:12	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/7/2024 9:12	45501	DERR_T2	0	0	0	0	0	0	-0.7	-0.72	2	2	0	1800	1800	0
12/7/2024 9:13	41301	FISH_T1	4	6	2	0.75	0.55	-0.2	-0.37	-0.35	0	0	0	0	0	0
12/7/2024 9:14	41301	FISH_T1	4	6	2	0.75	0.55	-0.2	-0.37	-0.35	0	0	0	0	0	0
12/7/2024 9:14	24701	FLND_T2	9	9	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
12/7/2024 9:14	24702	FLND_T2	11	2	-9	0.63	1.45	0.82	-0.75	-0.74	2	2	0	2400	2400	0
12/7/2024 9:14	46801	HEPB_T2	0	2	2	0	1	1	0.64	-0.39	0	0	0	0	0	0
12/7/2024 9:15	46203	DANV_T2	0	2	2	0	0.65	0.65	-1.82	-1.87	0	0	0	0	0	0
12/7/2024 9:16	45501	DERR_T2	0	0	0	0	0	0	-0.7	-0.72	2	2	0	1800	1800	0
12/7/2024 9:16	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 9:20	52502	PROG_T2	0	0	0	0	0	0	-0.38	-0.4	1	1	0	900	900	0
12/7/2024 9:22	52502	PROG_T2	0	0	0	0	0	0	-0.4	-0.34	1	1	0	900	900	0
12/7/2024 9:23	65802	RTWN_T2	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
12/7/2024 9:23	65803	RTWN_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/7/2024 9:24	16102	BING_T2	0	1	1	0	0.1	0.1	-0.03	-0.03	0	0	0	0	0	0
12/7/2024 9:27	46203	DANV_T2	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/7/2024 9:27	46206	DANV_T2	0	0	0	0	0	0	1.49	1.45	2	2	0	2100	2100	0
12/7/2024 9:28	45802	HEGI_T2	7	6	-1	0.47	0.24	-0.23	-0.13	-0.08	1	1	0	900	900	0
12/7/2024 9:30	46206	DANV_T2	0	0	0	0	0	0	1.49	1.45	2	2	0	2100	2100	0
12/7/2024 9:30	20601	GRWO_T2	28	15	-13	0.43	0.65	0.22	0.73	0.74	0	0	0	0	0	0
12/7/2024 9:33	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.18	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/7/2024 9:33	22601	KIMB_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/7/2024 9:33	45802	HEGI_T2	5	7	2	0.24	0.25	0.01	-0.13	-0.08	1	1	0	900	900	0
12/7/2024 9:33	64401	LAND_T1	0	0	0	0	0	0	-1.08	-1.1	1	1	0	600	600	0
12/7/2024 9:34	65502	MOJO_T2	0	0	0	0	0	0	-0.8	-0.86	0	0	0	0	0	0
12/7/2024 9:34	25402	LAHA_T2	90	62	-28	0.84	0.78	-0.06	0.58	0.66	0	0	0	0	0	0
12/7/2024 9:37	43104	SMIL_T2	0	0	0	0	0	0	-0.69	-0.67	1	1	0	300	300	0
12/7/2024 9:37	43101	SMIL_T2	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
12/7/2024 9:37	43108	SMIL_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
12/7/2024 9:39	43101	SMIL_T2	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
12/7/2024 9:39	43108	SMIL_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
12/7/2024 9:39	43104	SMIL_T2	0	0	0	0	0	0	-0.69	-0.67	1	1	0	300	300	0
12/7/2024 9:42	46203	DANV_T2	2	0	-2	0.65	0	-0.65	-1.84	-1.84	0	0	0	0	0	0
12/7/2024 9:44	46203	DANV_T2	2	0	-2	0.65	0	-0.65	-1.84	-1.84	0	0	0	0	0	0
12/7/2024 9:44	46206	DANV_T2	0	0	0	0	0	0	1.45	1.45	2	2	0	2100	2100	0
12/7/2024 9:51	43202	MVIL_T2	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
12/7/2024 9:51	43201	MVIL_T2	0	0	0	0	0	0	-1.29	-1.28	0	0	0	0	0	0
12/7/2024 9:53	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 9:56	15001	BLMO_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/7/2024 10:00	52403	GRPA_T2	2	5	3	0.25	1.3	1.05	0	0	0	0	0	0	0	0
12/7/2024 10:00	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 10:00	52401	GRPA_T2	0	1	1	0	0	0	-1.16	-1.14	0	0	0	0	0	0
12/7/2024 10:00	40101	HUNT_T2	427	478	51	0.96	0.98	0.02	-1.31	-1.39	0	0	0	0	0	0
12/7/2024 10:00	52402	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 10:03	64401	LAND_T1	0	0	0	0	0	0	-1	-1.09	1	1	0	600	600	0
12/7/2024 10:03	58302	NOTT_T1	0	0	0	0	0	0	-0.23	-0.41	1	1	0	900	900	0
12/7/2024 10:08	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/7/2024 10:08	43103	SMIL_T2	0	0	0	0	0	0	-0.79	-0.82	0	0	0	0	0	0
12/7/2024 10:08	43101	SMIL_T2	1	1	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
12/7/2024 10:09	43103	SMIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 10:09	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/7/2024 10:09	43101	SMIL_T2	1	1	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
12/7/2024 10:10	43108	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/7/2024 10:10	43103	SMIL_T2	0	0	0	0	0	0	-0.79	-0.82	0	0	0	0	0	0
12/7/2024 10:10	43101	SMIL_T2	1	1	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
12/7/2024 10:11	40101	HUNT_T2	427	478	51	0.96	0.98	0.02	-1.39	-1.35	0	0	0	0	0	0
12/7/2024 10:12	16102	BING_T2	0	6	6	0	0.17	0.17	0	0	0	0	0	0	0	0
12/7/2024 10:12	16103	BING_T2	0	1	1	0	0.2	0.2	-1.61	-1.6	1	1	0	900	900	0
12/7/2024 10:14	52403	GRPA_T2	2	5	3	0.25	1.3	1.05	-0.75	-0.13	0	0	0	0	0	0
12/7/2024 10:14	52402	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 10:14	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 10:14	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 10:14	16102	BING_T2	0	6	6	0	0.17	0.17	0	0	0	0	0	0	0	0
12/7/2024 10:14	16103	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/7/2024 10:15	45802	HEGI_T2	19	18	-1	0.32	0.24	-0.08	0	0	0	0	0	0	0	0
12/7/2024 10:20	67702	WERN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/7/2024 10:20	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 10:21	67702	WERN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/7/2024 10:21	55002	NEWP_T1	0	5	5	0	0.28	0.28	-0.18	-0.18	0	0	0	0	0	0
12/7/2024 10:21	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 10:22	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 10:22	67702	WERN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/7/2024 10:23	67702	WERN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/7/2024 10:23	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 10:25	67702	WERN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/7/2024 10:25	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 10:26	16102	BING_T2	1	7	6	0.1	0.16	0.06	0	0	0	0	0	0	0	0
12/7/2024 10:26	16103	BING_T2	0	1	1	0	0.2	0.2	-1.6	-1.61	1	1	0	900	900	0
12/7/2024 10:26	16101	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/7/2024 10:26	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
12/7/2024 10:26	10801	OHHI_T1	0	1	1	0	0.2	0.2	-1.49	-1.5	2	2	0	1500	1500	0
12/7/2024 10:26	43104	SMIL_T2	0	0	0	0	0	0	-0.7	-0.69	1	1	0	300	300	0
12/7/2024 10:26	43101	SMIL_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/7/2024 10:27	43101	SMIL_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/7/2024 10:27	43104	SMIL_T2	0	0	0	0	0	0	-0.7	-0.69	1	1	0	300	300	0
12/7/2024 10:30	17401	FOHI_T1	0	0	0	0	0	0	-0.99	-0.96	0	0	0	0	0	0
12/7/2024 10:30	10801	OHHI_T1	1	2	1	0.2	0.3	0.1	-1.49	-1.5	2	2	0	1500	1500	0
12/7/2024 10:35	44905	SCOT_T1	10	3	-7	0.69	0.45	-0.24	0	0	0	0	0	0	0	0
12/7/2024 10:39	44905	SCOT_T1	10	3	-7	0.69	0.45	-0.24	0	0	0	0	0	0	0	0
12/7/2024 10:48	42903	MIDD_T2	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
12/7/2024 10:48	42902	MIDD_T2	0	0	0	0	0	0	-3.6	-3.66	3	3	0	1800	1800	0
12/7/2024 10:49	42902	MIDD_T2	0	0	0	0	0	0	-1.2	-1.22	1	1	0	600	600	0
12/7/2024 10:49	42903	MIDD_T2	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
12/7/2024 10:50	55405	SHER_T1	5	5	0	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
12/7/2024 10:55	43101	SMIL_T2	1	1	0	1.7	0	-1.7	0	0	0	0	0	0	0	0
12/7/2024 10:55	43104	SMIL_T2	0	0	0	0	0	0	-0.71	-0.69	1	1	0	300	300	0
12/7/2024 10:56	43104	SMIL_T2	0	0	0	0	0	0	-1.43	-1.39	2	2	0	600	600	0
12/7/2024 10:56	43101	SMIL_T2	1	1	0	1.7	0	-1.7	0	0	0	0	0	0	0	0
12/7/2024 10:58	43101	SMIL_T2	1	1	0	1.7	0	-1.7	0	0	0	0	0	0	0	0
12/7/2024 10:58	10801	OHHI_T1	0	4	4	0	0.33	0.33	-1.5	-1.53	2	2	0	1500	1500	0
12/7/2024 10:58	11202	ELHE_T2	0	0	0	0	0	0	0.43	0.41	1	1	0	1200	1200	0
12/7/2024 10:58	43104	SMIL_T2	0	0	0	0	0	0	-0.71	-0.69	1	1	0	300	300	0
12/7/2024 11:00	12002	HATF_T1	0	0	0	0	0	0	-1.37	-1.43	1	1	0	1200	1200	0
12/7/2024 11:00	24702	FLND_T2	12	12	0	0.48	4.1	3.62	-0.28	-0.42	2	2	0	2400	2400	0
12/7/2024 11:00	12005	HATF_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/7/2024 11:00	12007	HATF_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
12/7/2024 11:00	24701	FLND_T2	9	9	0	0.76	0.89	0.13	0	0	0	0	0	0	0	0
12/7/2024 11:02	63501	HEID_TBK1-2	20	21	1	0.16	0.18	0.02	-0.48	-0.5	1	1	0	900	900	0
12/7/2024 11:03	44502	HAMI_T2	1	2	1	2.5	2.5	0	0.05	0.05	0	0	0	0	0	0
12/7/2024 11:18	47101	MARL_T1	29	13	-16	0.92	1.71	0.79	0	0	0	0	0	0	0	0
12/7/2024 11:18	45802	HEGI_T2	8	7	-1	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
12/7/2024 11:18	47104	MARL_T1	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
12/7/2024 11:23	14401	SSLA_T1	3	3	0	1.23	0.2	-1.03	0	0	0	0	0	0	0	0
12/7/2024 11:23	14402	SSLA_T1	1	3	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/7/2024 11:23	14403	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 11:29	40602	PIGR_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
12/7/2024 11:30	24701	FLND_T2	9	9	0	0.89	0	-0.89	-0.75	-0.73	0	0	0	0	0	0
12/7/2024 11:30	24702	FLND_T2	12	19	7	0.57	0.57	0	0	0	0	0	0	0	0	0
12/7/2024 11:32	63804	HEMP_T1	8	3	-5	1.24	3.8	2.56	0	0	0	0	0	0	0	0
12/7/2024 11:32	63801	HEMP_T1	0	0	0	0	0	0	-0.27	-0.16	0	0	0	0	0	0
12/7/2024 11:35	64101	REFR_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
12/7/2024 11:36	13704	SCHN_T2	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
12/7/2024 11:37	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 11:39	40201	BEGA_T2	3	4	1	0.3	0.9	0.6	0	0	0	0	0	0	0	0
12/7/2024 11:40	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 11:41	40201	BEGA_T2	3	4	1	0.3	0.9	0.6	0	0	0	0	0	0	0	0
12/7/2024 11:42	10602	BLGL_T2	0	0	0	0	0	0	0.26	0.18	0	0	0	0	0	0
12/7/2024 11:43	46203	DANV_T2	0	1	1	0	0.4	0.4	-1.8	-1.75	0	0	0	0	0	0
12/7/2024 11:43	40201	BEGA_T2	3	4	1	0.3	0.9	0.6	0	0	0	0	0	0	0	0
12/7/2024 11:46	12007	HATF_T1	1	1	0	0.2	0.5	0.3	0.14	0	2	2	0	2400	2400	0
12/7/2024 11:46	12002	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/7/2024 11:46	12005	HATF_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
12/7/2024 11:50	52502	PROG_T2	0	0	0	0	0	0	-0.82	-0.78	2	2	0	1800	1800	0
12/7/2024 11:52	52502	PROG_T2	0	0	0	0	0	0	-0.78	-0.78	2	2	0	1800	1800	0
12/7/2024 11:54	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 11:55	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 12:00	12002	HATF_T1	0	1	1	0	0.1	0.1	-1.5	-1.5	1	1	0	1200	1200	0
12/7/2024 12:00	12007	HATF_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/7/2024 12:00	12005	HATF_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/7/2024 12:08	67402	WAKE_T2	0	0	0	0	0	0	-0.34	-0.34	1	1	0	600	600	0
12/7/2024 12:14	12002	HATF_T1	0	1	1	0	0.1	0.1	-1.5	-1.48	1	1	0	1200	1200	0
12/7/2024 12:14	12007	HATF_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/7/2024 12:14	12005	HATF_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/7/2024 12:15	26002	WDAM_T1	2	3	1	1.7	1.23	-0.47	0	0	0	0	0	0	0	0
12/7/2024 12:15	67402	WAKE_T2	0	0	0	0	0	0	-0.34	-0.34	1	1	0	600	600	0
12/7/2024 12:20	64101	REFR_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
12/7/2024 12:22	13303	ORVI_T1	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
12/7/2024 12:22	55002	NEWP_T1	5	5	0	0.3	0.64	0.34	-0.19	-0.18	0	0	0	0	0	0
12/7/2024 12:22	55001	NEWP_T1	0	2	2	0	0.1	0.1	-0.87	-0.25	1	0	-1	600	0	-600
12/7/2024 12:23	55002	NEWP_T1	5	5	0	0.3	0.64	0.34	0	0	0	0	0	0	0	0
12/7/2024 12:23	55001	NEWP_T1	0	2	2	0	0.1	0.1	-0.87	-0.25	1	0	-1	600	0	-600
12/7/2024 12:25	60803	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 12:31	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 12:32	63305	GREE_T1	7	12	5	0.41	0.38	-0.03	-2.58	-2.58	1	1	0	900	900	0
12/7/2024 12:34	64204	KINZ_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
12/7/2024 12:34	64202	KINZ_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/7/2024 12:34	64201	KINZ_T1	0	0	0	0	0	0	-0.81	-0.76	3	3	0	1500	1500	0
12/7/2024 12:39	41901	REED_T1	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
12/7/2024 12:39	41902	REED_T1	22	9	-13	0.76	0.32	-0.44	0.97	0.95	0	0	0	0	0	0
12/7/2024 12:43	63304	GREE_T1	0	0	0	0	0	0	-1.71	-1.79	0	0	0	0	0	0
12/7/2024 12:43	63305	GREE_T1	7	12	5	0.41	0.38	-0.03	0	0	0	0	0	0	0	0
12/7/2024 12:44	11901	ETEX_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
12/7/2024 12:45	65401	MARI_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
12/7/2024 12:45	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/7/2024 12:46	66302	MCGO_T2	0	0	0	0	0	0	-1.5	-1.5	1	1	0	600	600	0
12/7/2024 12:46	65401	MARI_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
12/7/2024 12:46	66303	MCGO_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/7/2024 12:47	60604	MCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 12:49	66302	MCGO_T2	0	0	0	0	0	0	-3.01	-3.01	2	2	0	1200	1200	0
12/7/2024 12:49	66303	MCGO_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/7/2024 12:54	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 12:54	43104	SMIL_T2	0	0	0	0	0	0	-0.67	-0.67	1	1	0	300	300	0
12/7/2024 12:56	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 12:56	43104	SMIL_T2	0	0	0	0	0	0	-2.01	-2.02	3	3	0	900	900	0
12/7/2024 13:01	42802	SELI_T1	0	0	0	0	0	0	-1.85	-1.83	0	0	0	0	0	0
12/7/2024 13:02	64403	LAND_T1	0	0	0	0	0	0	-1.78	-1.87	1	1	0	900	900	0
12/7/2024 13:04	66303	MCGO_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
12/7/2024 13:04	66302	MCGO_T2	0	0	0	0	0	0	-1.5	-1.51	1	1	0	600	600	0
12/7/2024 13:06	14403	SSLA_T1	4	0	-4	0.4	0	-0.4	0.6	0.59	0	0	0	0	0	0
12/7/2024 13:40	14403	SSLA_T1	0	0	0	0	0	0	0.61	0.66	0	0	0	0	0	0
12/7/2024 13:40	14402	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 13:59	61305	EARL_T1	0	0	0	0	0	0	-0.02	0.05	2	2	0	1500	1500	0
12/7/2024 14:04	64403	LAND_T1	0	0	0	0	0	0	-1.98	-1.96	1	1	0	900	900	0
12/7/2024 14:08	13704	SCHN_T2	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/7/2024 14:08	47401	PENS_T1	1	6	5	0.1	0.15	0.05	0.05	0.03	0	0	0	0	0	0
12/7/2024 14:11	42701	AUGU_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/7/2024 14:12	42701	AUGU_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/7/2024 14:16	17802	GILB_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
12/7/2024 14:22	65602	QVIL_T2	2	13	11	0.1	0.19	0.09	0	0	0	0	0	0	0	0
12/7/2024 14:22	65601	QVIL_T2	0	0	0	0	0	0	-1.08	-1.13	1	1	0	900	900	0
12/7/2024 14:34	64101	REFR_T1	1	0	-1	0.2	0	-0.2	0.23	0.22	0	0	0	0	0	0
12/7/2024 14:37	60301	TWVA_T2	0	0	0	0	0	0	-3.77	-3.77	4	4	0	3600	3600	0
12/7/2024 14:37	64101	REFR_T1	1	0	-1	0.2	0	-0.2	0.22	0.23	0	0	0	0	0	0
12/7/2024 14:38	64101	REFR_T1	1	0	-1	0.2	0	-0.2	0.22	0.23	0	0	0	0	0	0
12/7/2024 14:52	14601	SWHI_T1	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
12/7/2024 14:59	44502	HAMI_T2	1	1	0	3	3.1	0.1	0	0	0	0	0	0	0	0
12/7/2024 14:59	44505	HAMI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/7/2024 14:59	44501	HAMI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 15:00	44502	HAMI_T2	0	1	1	0	3	3	0	0	0	0	0	0	0	0
12/7/2024 15:00	44505	HAMI_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
12/7/2024 15:01	64401	LAND_T1	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
12/7/2024 15:02	44501	HAMI_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/7/2024 15:02	44502	HAMI_T2	1	1	0	3.1	3	-0.1	0	0	0	0	0	0	0	0
12/7/2024 15:02	44505	HAMI_T2	2	0	-2	0.1	0	-0.1	-0.33	-0.34	0	0	0	0	0	0
12/7/2024 15:03	47101	MARL_T1	6	8	2	0.95	1.1	0.15	-0.6	-0.63	0	0	0	0	0	0
12/7/2024 15:18	43104	SMIL_T2	0	0	0	0	0	0	-0.67	-0.7	1	1	0	300	300	0
12/7/2024 15:18	43101	SMIL_T2	1	0	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
12/7/2024 15:21	52001	LING_T1	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
12/7/2024 15:22	44701	MUNC_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
12/7/2024 15:22	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 15:32	63201	MGTN_T2	0	0	0	0	0	0	0.32	0.31	1	1	0	600	600	0
12/7/2024 15:32	63202	MGTN_T2	2	2	0	2.85	0.1	-2.75	0	0	0	0	0	0	0	0
12/7/2024 15:33	64202	KINZ_T1	3	1	-2	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
12/7/2024 15:33	64203	KINZ_T1	0	2	2	0	0	0	-0.39	-0.43	1	1	0	600	600	0
12/7/2024 15:33	64204	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/7/2024 15:51	55101	WERT_T1	0	0	0	0	0	0	-2.19	-2.1	1	1	0	600	600	0
12/7/2024 15:53	44202	POIN_T2	0	0	0	0	0	0	-0.86	-0.91	1	1	0	1200	1200	0
12/7/2024 15:53	55101	WERT_T1	0	0	0	0	0	0	-2.1	-2.06	1	1	0	600	600	0
12/7/2024 16:00	63804	HEMP_T1	2	1	-1	3	6.2	3.2	0.91	0.89	0	0	0	0	0	0
12/7/2024 18:26	10602	BLGL_T2	1	1	0	7.9	7.8	-0.1	0.34	0.33	0	0	0	0	0	0
12/7/2024 18:26	17401	FOHI_T1	0	1	1	0	0	0	-1.02	-1	0	0	0	0	0	0
12/7/2024 18:27	25402	LAHA_T2	56	84	28	0.84	0.76	-0.08	0.16	0.16	0	0	0	0	0	0
12/7/2024 18:30	13303	ORVI_T1	0	0	0	0	0	0	0.55	0.61	0	0	0	0	0	0
12/7/2024 18:30	17802	GILB_T1	0	1	1	0	0	0	0.12	0.11	0	0	0	0	0	0
12/7/2024 18:32	12005	HATF_T1	2	5	3	0.3	0.36	0.06	0	0	0	0	0	0	0	0
12/7/2024 18:32	16102	BING_T2	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
12/7/2024 18:32	12004	HATF_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
12/7/2024 18:32	12002	HATF_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
12/7/2024 18:32	12006	HATF_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:32	12001	HATF_T1	1	1	0	1.2	0.3	-0.9	0	0	0	0	0	0	0	0
12/7/2024 18:34	12006	HATF_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:34	12005	HATF_T1	2	5	3	0.3	0.36	0.06	0	0	0	0	0	0	0	0
12/7/2024 18:34	12004	HATF_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
12/7/2024 18:34	12002	HATF_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
12/7/2024 18:34	12001	HATF_T1	1	1	0	1.2	0.3	-0.9	0	0	0	0	0	0	0	0
12/7/2024 18:35	24702	FLND_T2	12	12	0	1.21	0.62	-0.59	0	0	0	0	0	0	0	0
12/7/2024 18:35	24701	FLND_T2	9	13	4	0.36	0	-0.36	-0.79	-0.8	0	0	0	0	0	0
12/7/2024 18:35	26002	WDAM_T1	1	3	2	0.3	2.2	1.9	0	0	0	0	0	0	0	0
12/7/2024 18:35	24703	FLND_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:36	15001	BLMO_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/7/2024 18:36	12006	HATF_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:36	12004	HATF_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
12/7/2024 18:36	12002	HATF_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
12/7/2024 18:36	64201	KINZ_T1	0	0	0	0	0	0	-0.63	-0.65	3	3	0	1500	1500	0
12/7/2024 18:36	64204	KINZ_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
12/7/2024 18:36	12001	HATF_T1	1	1	0	1.2	0.3	-0.9	0	0	0	0	0	0	0	0
12/7/2024 18:36	12005	HATF_T1	2	5	3	0.3	0.36	0.06	0	0	0	0	0	0	0	0
12/7/2024 18:38	24701	FLND_T2	9	13	4	0.36	0	-0.36	0	0	0	0	0	0	0	0
12/7/2024 18:38	10801	CHHI_T1	0	0	0	0	0	0	-2.06	-2.05	3	3	0	2100	2100	0
12/7/2024 18:38	24703	FLND_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:38	22602	KIMB_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
12/7/2024 18:38	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:38	24702	FLND_T2	12	12	0	1.21	0.62	-0.59	-0.61	-0.65	2	2	0	2400	2400	0
12/7/2024 18:38	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:39	65601	QVIL_T2	0	0	0	0	0	0	-1.09	-1.09	1	1	0	900	900	0
12/7/2024 18:40	11202	ELHE_T2	0	0	0	0	0	0	0.42	0.42	1	1	0	1200	1200	0
12/7/2024 18:40	10801	CHHI_T1	0	0	0	0	0	0	-2.06	-2.05	3	3	0	2100	2100	0
12/7/2024 18:40	11901	ETEX_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
12/7/2024 18:41	46801	HEPB_T2	2	2	0	0.2	0.55	0.35	-0.37	-0.36	0	0	0	0	0	0
12/7/2024 18:42	16103	BING_T2	0	0	0	0	0	0	-3.05	-2.91	2	2	0	1800	1800	0
12/7/2024 18:44	64401	LAND_T1	0	0	0	0	0	0	-1.11	-1.12	1	1	0	600	600	0
12/7/2024 18:45	47104	MARL_T1	0	0	0	0	0	0	-0.39	-0.36	0	0	0	0	0	0
12/7/2024 18:45	40101	HUNT_T2	506	459	-47	1.56	1.08	-0.48	-1.32	-1.32	0	0	0	0	0	0
12/7/2024 18:45	47101	MARL_T1	51	33	-18	0.95	0.66	-0.29	0	0	0	0	0	0	0	0
12/7/2024 18:46	46203	DANV_T2	7	7	0	0.36	0.46	0.1	0	0	0	0	0	0	0	0
12/7/2024 18:46	52502	PROG_T2	0	0	0	0	0	0	-0.4	-0.38	1	1	0	900	900	0
12/7/2024 18:46	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:46	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:46	10801	CHHI_T1	0	0	0	0	0	0	-2.06	-2.05	3	3	0	2100	2100	0
12/7/2024 18:46	46206	DANV_T2	0	0	0	0	0	0	0.23	0.22	2	2	0	2100	2100	0
12/7/2024 18:47	52401	GRPA_T2	7	13	6	0.19	0.33	0.14	0	0	0	0	0	0	0	0
12/7/2024 18:47	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:47	47402	PENS_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/7/2024 18:47	41901	REED_T1	2	6	4	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
12/7/2024 18:47	24703	FLND_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/7/2024 18:47	64401	LAND_T1	0	0	0	0	0	0	-1.11	-1.12	1	1	0	600	600	0
12/7/2024 18:47	52404	GRPA_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/7/2024 18:47	24701	FLND_T2	13	0	-13	0.53	0	-0.53	0	0	0	0	0	0	0	0
12/7/2024 18:47	41902	REED_T1	3	8	5	0.67	1.13	0.46	0.18	0.13	0	0	0	0	0	0
12/7/2024 18:47	47401	PENS_T1	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
12/7/2024 18:47	43201	MVIL_T2	0	0	0	0	0	0	-1.32	-1.29	0	0	0	0	0	0
12/7/2024 18:47	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:47	52403	GRPA_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
12/7/2024 18:47	24702	FLND_T2	12	18	6	0.62	0.51	-0.11	-0.61	-0.65	2	2	0	2400	2400	0
12/7/2024 18:47	67702	WERN_T2	1	4	3	1.2	1.2	0	0	0	0	0	0	0	0	0
12/7/2024 18:47	44905	SCOT_T1	81	94	13	0.8	0.71	-0.09	0	0	0	0	0	0	0	0
12/7/2024 18:48	67605	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/7/2024 18:48	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:48	47101	MARL_T1	51	33	-18	0.95	0.66	-0.29	-0.48	-0.55	0	0	0	0	0	0
12/7/2024 18:48	14601	SWHI_T1	0	0	0	0	0	0	-1.36	-1.39	0	0	0	0	0	0
12/7/2024 18:48	44501	DERR_T2	5	5	0	0.58	0	-0.58	-0.73	-0.74	2	2	0	1800	1800	0
12/7/2024 18:48	67604	WARW_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/7/2024 18:49	43103	SMIL_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
12/7/2024 18:49	43101	SMIL_T2	1	1	0	2	0.3	-1.7	0	0	0	0	0	0	0	0
12/7/2024 18:49	41901	REED_T1	2	6	4	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
12/7/2024 18:49	60301	TWVA_T2	1	1	0	0.3	0.5	0.2	-3.81	-3.83	4	4	0	3600	3600	0
12/7/2024 18:49	67702	WERN_T2	1	4	3	1.2	1.2	0	0	0	0	0	0	0	0	0
12/7/2024 18:49	41301	FISH_T1	1	3	2	2.3	1	-1.3	0	0	0	0	0	0	0	0
12/7/2024 18:49	45501	DERR_T2	5	5	0	0.58	0	-0.58	-0.73	-0.74	2	2	0	1800	1800	0
12/7/2024 18:49	41903	REED_T1	0	0	0	0	0	0	-0.51	-0.49	1	1	0	1200	1200	0
12/7/2024 18:49	41902	REED_T1	3	8	5	0.67	1.13	0.46	0	0	0	0	0	0	0	0
12/7/2024 18:49	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:49	43108	SMIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/7/2024 18:49	63501	HEID_TBK1-2	1	2	1	0.2	0.2	0	-0.49	-0.43	1	1	0	900	900	0
12/7/2024 18:50	42701	AUGU_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/7/2024 18:50	55001	NEWP_T1	1	1	0	2.7	2.7	0	-0.88	-0.85	1	1	0	600	600	0
12/7/2024 18:50	55002	NEWP_T1	2	4	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
12/7/2024 18:50	42902	MIDD_T2	1	0	-1	0.4	0	-0.4	-1.25	-1.25	1	1	0	600	600	0
12/7/2024 18:50	42901	MIDD_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:50	42903	MIDD_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
12/7/2024 18:50	63305	GREE_T1	3	4	1	0.17	0.23	0.06	0	0	0	0	0	0	0	0
12/7/2024 18:50	44502	HAMI_T2	2	1	-1	1.55	2.2	0.65	0.02	0.03	0	0	0	0	0	0
12/7/2024 18:50	46203	DANV_T2	7	7	0	0.36	0.46	0.1	-2.72	-2.74	0	0	0	0	0	0
12/7/2024 18:50	41602	CLEV_T1	26	5	-21	0.34	0	-0.34	0	0	1	1	0	600	600	0
12/7/2024 18:50	63304	GREE_T1	0	0	0	0	0	0	-1.76	-1.68	0	0	0	0	0	0
12/7/2024 18:50	67605	WARW_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/7/2024 18:50	46206	DANV_T2	0	0	0	0	0	0	0.23	0.22	2	2	0	2100	2100	0
12/7/2024 18:50	44503	HAMI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:51	63305	GREE_T1	3	4	1	0.17	0.23	0.06	-2.59	-2.63	1	1	0	900	900	0
12/7/2024 18:51	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:51	52404	GRPA_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/7/2024 18:51	43101	SMIL_T2	1	1	0	2	0.3	-1.7	0	0	0	0	0	0	0	0
12/7/2024 18:51	43108	SMIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/7/2024 18:51	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:51	40602	PIGR_T1	1	1	0	2.7	2.1	-0.6	0	0	0	0	0	0	0	0
12/7/2024 18:51	66701	STRA_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/7/2024 18:51	52401	GRPA_T2	7	13	6	0.19	0.33	0.14	-0.53	-0.52	0	0	0	0	0	0
12/7/2024 18:51	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:51	64401	LAND_T1	0	0	0	0	0	0	-1.12	-1.1	1	1	0	600	600	0
12/7/2024 18:51	64101	REFR_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
12/7/2024 18:51	43103	SMIL_T2	0	4	4	0	0.23	0.23	-2.22	-2.23	0	0	0	0	0	0
12/7/2024 18:52	52502	PROG_T2	0	0	0	0	0	0	-0.76	-0.8	2	2	0	1800	1800	0
12/7/2024 18:52	67702	WERN_T2	1	4	3	1.2	1.2	0	0	0	0	0	0	0	0	0
12/7/2024 18:52	55405	SHER_T1	5	5	0	0.22	0.48	0.26	0	0	0	0	0	0	0	0
12/7/2024 18:52	46203	DANV_T2	7	7	0	0.36	0.46	0.1	-2.74	-2.75	0	0	0	0	0	0
12/7/2024 18:52	65401	MARI_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
12/7/2024 18:52	41301	FISH_T1	1	3	2	2.3	1	-1.3	-0.76	-0.76	0	0	0	0	0	0
12/7/2024 18:52	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:52	40101	HUNT_T2	506	459	-47	1.56	1.08	-0.48	-1.32	-1.33	0	0	0	0	0	0
12/7/2024 18:52	67402	WAKE_T2	0	0	0	0	0	0	-0.34	-0.38	1	1	0	600	600	0
12/7/2024 18:53	43101	SMIL_T2	1	1	0	2	0.3	-1.7	0	0	0	0	0	0	0	0
12/7/2024 18:53	66302	MCGO_T2	0	0	0	0	0	0	-3.13	-3.13	2	2	0	1200	1200	0
12/7/2024 18:53	64403	LAND_T1	0	0	0	0	0	0	-2.01	-2	1	1	0	900	900	0
12/7/2024 18:53	55101	WERT_T1	0	0	0	0	0	0	-2.62	-2.61	1	1	0	600	600	0
12/7/2024 18:53	43104	SMIL_T2	0	0	0	0	0	0	-0.67	-0.67	1	1	0	300	300	0
12/7/2024 18:53	43103	SMIL_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
12/7/2024 18:53	46203	DANV_T2	7	7	0	0.36	0.46	0.1	-2.74	-2.75	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/7/2024 18:53	43108	SMIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/7/2024 18:54	67702	WERN_T2	1	4	3	1.2	1.2	0	0	0	0	0	0	0	0	0
12/7/2024 18:54	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:54	44905	SCOT_T1	81	94	13	0.8	0.71	-0.09	0	0	0	0	0	0	0	0
12/7/2024 18:54	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:54	58302	NOTT_T1	0	0	0	0	0	0	-0.21	-0.17	1	1	0	900	900	0
12/7/2024 18:54	20601	GRWO_T2	0	0	0	0	0	0	-0.18	-0.16	0	0	0	0	0	0
12/7/2024 18:54	45802	HEGI_T2	48	47	-1	1.03	1.16	0.13	-0.07	-0.07	1	1	0	900	900	0
12/7/2024 18:54	14401	SSLA_T1	11	7	-4	0.97	1.1	0.13	0	0	0	0	0	0	0	0
12/7/2024 18:54	66505	SMAN_T2	3	3	0	0.5	0.53	0.03	0	0	0	0	0	0	0	0
12/7/2024 18:54	60803	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:54	14403	SSLA_T1	11	9	-2	0.45	0.6	0.15	0.83	0.8	0	0	0	0	0	0
12/7/2024 18:54	20603	GRWO_T2	2	4	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/7/2024 18:54	14402	SSLA_T1	2	1	-1	0.65	0	-0.65	0	0	0	0	0	0	0	0
12/7/2024 18:55	43108	SMIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/7/2024 18:55	64403	LAND_T1	0	0	0	0	0	0	-2.01	-2	1	1	0	900	900	0
12/7/2024 18:55	43101	SMIL_T2	1	1	0	2	0.3	-1.7	0	0	0	0	0	0	0	0
12/7/2024 18:55	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:55	66703	STRA_T1	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
12/7/2024 18:55	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:55	14401	SSLA_T1	11	7	-4	0.97	1.1	0.13	0	0	0	0	0	0	0	0
12/7/2024 18:55	66701	STRA_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/7/2024 18:55	43103	SMIL_T2	0	4	4	0	0.23	0.23	-2.23	-2.23	0	0	0	0	0	0
12/7/2024 18:55	14403	SSLA_T1	11	9	-2	0.45	0.6	0.15	0	0	0	0	0	0	0	0
12/7/2024 18:55	43104	SMIL_T2	0	0	0	0	0	0	-0.67	-0.67	1	1	0	300	300	0
12/7/2024 18:55	14402	SSLA_T1	2	1	-1	0.65	0	-0.65	0	0	0	0	0	0	0	0
12/7/2024 18:55	65802	RTWN_T2	0	0	0	0	0	0	-0.18	-0.14	0	0	0	0	0	0
12/7/2024 18:56	46206	DANV_T2	0	0	0	0	0	0	0.22	0.21	2	2	0	2100	2100	0
12/7/2024 18:56	43108	SMIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/7/2024 18:56	63202	MGTN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:56	63201	MGTN_T2	0	0	0	0	0	0	0.39	0.38	1	1	0	600	600	0
12/7/2024 18:56	44503	HAMI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:56	52401	GRPA_T2	7	13	6	0.19	0.33	0.14	-0.52	-0.54	0	0	0	0	0	0
12/7/2024 18:56	43101	SMIL_T2	1	1	0	2	0.3	-1.7	0	0	0	0	0	0	0	0
12/7/2024 18:56	55101	WERT_T1	0	0	0	0	0	0	-7.87	-7.84	3	3	0	1800	1800	0
12/7/2024 18:56	52001	LING_T1	0	0	0	0	0	0	-0.94	-0.92	0	0	0	0	0	0
12/7/2024 18:56	55001	NEWP_T1	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0	0
12/7/2024 18:56	44502	HAMI_T2	2	1	-1	1.55	2.2	0.65	0	0	0	0	0	0	0	0
12/7/2024 18:56	55002	NEWP_T1	2	4	2	0.2	0.33	0.13	-0.21	-0.19	0	0	0	0	0	0
12/7/2024 18:56	43104	SMIL_T2	0	0	0	0	0	0	-1.34	-1.34	2	2	0	600	600	0
12/7/2024 18:56	66302	MCGO_T2	0	0	0	0	0	0	-3.13	-3.13	2	2	0	1200	1200	0
12/7/2024 18:56	43103	SMIL_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
12/7/2024 18:56	41902	REED_T1	3	8	5	0.67	1.13	0.46	0.13	0.13	0	0	0	0	0	0
12/7/2024 18:56	44505	HAMI_T2	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
12/7/2024 18:56	13704	SCHN_T2	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
12/7/2024 18:56	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:56	41901	REED_T1	2	6	4	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
12/7/2024 18:56	52404	GRPA_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/7/2024 18:56	46203	DANV_T2	7	7	0	0.36	0.46	0.1	0	0	0	0	0	0	0	0
12/7/2024 18:57	42901	MIDD_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:57	42903	MIDD_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
12/7/2024 18:57	42902	MIDD_T2	1	0	-1	0.4	0	-0.4	-1.25	-1.25	1	1	0	600	600	0
12/7/2024 18:58	43104	SMIL_T2	0	0	0	0	0	0	-0.67	-0.67	1	1	0	300	300	0
12/7/2024 18:58	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:58	43108	SMIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/7/2024 18:58	44505	HAMI_T2	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
12/7/2024 18:58	41901	REED_T1	2	6	4	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
12/7/2024 18:58	64204	KINZ_T1	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
12/7/2024 18:58	41902	REED_T1	3	8	5	0.67	1.13	0.46	0.13	0.13	0	0	0	0	0	0
12/7/2024 18:58	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:58	44502	HAMI_T2	2	1	-1	1.55	2.2	0.65	0	0	0	0	0	0	0	0
12/7/2024 18:58	43103	SMIL_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
12/7/2024 18:58	64203	KINZ_T1	0	0	0	0	0	0	-0.39	-0.47	1	1	0	600	600	0
12/7/2024 18:58	63804	HEMP_T1	7	1	-6	1.27	6.2	4.93	0	0	0	0	0	0	0	0
12/7/2024 18:58	44503	HAMI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:58	63801	HEMP_T1	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
12/7/2024 18:58	43101	SMIL_T2	1	1	0	2	0.3	-1.7	0	0	0	0	0	0	0	0
12/7/2024 18:58	67702	WERN_T2	1	4	3	1.2	1.2	0	0	0	0	0	0	0	0	0
12/7/2024 18:59	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 18:59	58102	NEKI_T1	1	0	-1	1	0	-1	0	0	1	1	0	1200	1200	0
12/7/2024 18:59	64101	REFR_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
12/7/2024 18:59	46203	DANV_T2	7	7	0	0.36	0.46	0.1	-2.74	-2.75	0	0	0	0	0	0
12/7/2024 18:59	60602	NCOL_T2	2	2	0	1	0.65	-0.35	0	0	0	0	0	0	0	0
12/7/2024 19:00	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 19:00	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 19:00	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 19:00	64101	REFR_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
12/7/2024 19:00	52502	PROG_T2	0	0	0	0	0	0	-0.76	-0.8	2	2	0	1800	1800	0
12/7/2024 19:00	46203	DANV_T2	0	7	7	0	0.44	0.44	-2.74	-2.75	0	0	0	0	0	0
12/7/2024 19:00	44503	HAMI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/7/2024 19:00	65401	MARI_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
12/7/2024 19:00	44502	HAMI_T2	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
12/7/2024 19:01	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 19:01	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 19:01	42901	MIDD_T2	0	1	1	0	0	0	-2.5	-2.5	2	2	0	1200	1200	0
12/7/2024 19:01	45802	HEGI_T2	47	48	1	1.14	1.09	-0.05	-0.07	-0.07	1	1	0	900	900	0
12/7/2024 19:01	42901	MIDD_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
12/7/2024 19:01	64101	REFR_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
12/7/2024 19:01	41902	REED_T1	5	7	2	1.18	0.88	-0.3	0.13	0.13	0	0	0	0	0	0
12/7/2024 19:01	41901	REED_T1	4	6	2	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
12/7/2024 19:01	42903	MIDD_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
12/7/2024 19:02	44202	POIN_T2	0	0	0	0	0	0	-0.87	-0.9	1	1	0	1200	1200	0
12/7/2024 19:02	65502	MOJO_T2	0	0	0	0	0	0	-1.14	-1.16	0	0	0	0	0	0
12/7/2024 19:03	42802	SEU_T1	0	0	0	0	0	0	-1.85	-1.86	0	0	0	0	0	0
12/7/2024 19:03	52502	PROG_T2	0	0	0	0	0	0	-0.38	-0.4	1	1	0	900	900	0
12/7/2024 19:07	55002	NEWP_T1	4	4	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
12/7/2024 19:07	55001	NEWP_T1	1	1	0	3.1	2.4	-0.7	-0.85	-0.84	1	1	0	600	600	0
12/7/2024 19:14	67402	WAKE_T2	0	0	0	0	0	0	-0.38	-0.35	1	1	0	600	600	0
12/7/2024 20:27	43101	SMIL_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
12/7/2024 20:27	43103	SMIL_T2	4	9	5	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/7/2024 20:55	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/7/2024 20:55	44701	MUNC_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/7/2024 21:30	66703	STRA_T1	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
12/8/2024 8:21	43201	MVIL_T2	1	1	0	0.3	0	-0.3	-0.37	-0.37	0	0	0	0	0	0
12/8/2024 8:21	43202	MVIL_T2	4	3	-1	0.63	1.4	0.77	0	0	0	0	0	0	0	0
12/8/2024 8:24	46301	ROHR_T1	1	2	1	4.2	4.4	0.2	0	0	0	0	0	0	0	0
12/8/2024 8:24	46302	ROHR_T1	5	4	-1	0.46	0.15	-0.31	-0.29	-0.29	0	0	0	0	0	0
12/8/2024 8:27	45501	DERR_T2	0	0	0	0	0	0	-0.89	-0.89	2	2	0	1800	1800	0
12/8/2024 8:29	45501	DERR_T2	0	0	0	0	0	0	-0.89	-0.89	2	2	0	1800	1800	0
12/8/2024 8:40	58102	NEKI_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
12/8/2024 8:42	14201	EALL_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
12/8/2024 8:43	63804	HEMP_T1	1	2	1	5.5	2.8	-2.7	0	0	0	0	0	0	0	0
12/8/2024 8:43	63802	HEMP_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
12/8/2024 8:44	63501	HEID_TBK1-2	0	33	33	0	0.33	0.33	-0.93	-0.95	2	2	0	1800	1800	0
12/8/2024 8:44	16101	BING_T2	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
12/8/2024 8:44	16102	BING_T2	5	2	-3	0.1	0.1	0	0	0	0	0	0	0	0	0
12/8/2024 8:45	64402	LAND_T2	0	0	0	0	0	0	-0.59	-0.59	1	1	0	600	600	0
12/8/2024 8:45	64404	LAND_T2	0	16	16	0	0.1	0.1	0	0	0	0	0	0	0	0
12/8/2024 8:46	63501	HEID_TBK1-2	7	35	28	0.11	0.34	0.23	-0.47	-0.48	1	1	0	900	900	0
12/8/2024 8:46	64202	KINZ_T1	2	3	1	0.4	0.4	0	0	0	0	0	0	0	0	0
12/8/2024 8:46	64201	KINZ_T1	4	5	1	0.25	0.28	0.03	-0.48	-0.5	2	2	0	1200	1200	0
12/8/2024 8:46	64204	KINZ_T1	2	4	2	0.25	0.33	0.08	0	0	0	0	0	0	0	0
12/8/2024 8:46	46801	HEPB_T2	2	4	2	0.4	0.55	0.15	0.61	0.63	0	0	0	0	0	0
12/8/2024 8:47	64202	KINZ_T1	2	3	1	0.4	0.4	0	0	0	0	0	0	0	0	0
12/8/2024 8:47	64201	KINZ_T1	4	5	1	0.25	0.28	0.03	0	0	0	0	0	0	0	0
12/8/2024 8:47	64204	KINZ_T1	2	4	2	0.25	0.33	0.08	0	0	0	0	0	0	0	0
12/8/2024 8:47	64203	KINZ_T1	0	0	0	0	0	0	-0.47	-0.48	1	1	0	600	600	0
12/8/2024 8:47	45702	LIND_T2	0	0	0	0	0	0	-1.76	-1.75	0	0	0	0	0	0
12/8/2024 8:52	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 8:53	43201	MVIL_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
12/8/2024 8:53	43202	MVIL_T2	1	4	3	1.9	0.4	-1.5	0	0	0	0	0	0	0	0
12/8/2024 8:54	44301	BEAV_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/8/2024 8:58	63501	HEID_TBK1-2	7	35	28	0.11	0.34	0.23	-0.48	-0.38	1	1	0	900	900	0
12/8/2024 8:59	67605	WARW_T1	0	4	4	0	0.37	0.37	-1.07	-1.15	0	0	0	0	0	0
12/8/2024 9:00	46301	ROHR_T1	0	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0
12/8/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
12/8/2024 9:00	67503	WEWI_T2	1	1	0	6.2	5.5	-0.7	-0.71	-0.05	0	0	0	0	0	0
12/8/2024 9:00	63501	HEID_TBK1-2	33	38	5	0.33	0.49	0.16	-0.48	-0.38	1	1	0	900	900	0
12/8/2024 9:00	46302	ROHR_T1	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
12/8/2024 9:01	66301	MCGO_T2	0	0	0	0	0	0	-0.32	-0.36	0	0	0	0	0	0
12/8/2024 9:01	66303	MCGO_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
12/8/2024 9:01	65401	MARI_T1	0	0	0	0	0	0	0.69	0.81	0	0	0	0	0	0
12/8/2024 9:01	66302	MCGO_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/8/2024 9:04	65401	MARI_T1	0	0	0	0	0	0	0.35	0.4	0	0	0	0	0	0
12/8/2024 9:05	65401	MARI_T1	0	0	0	0	0	0	0.35	0.4	0	0	0	0	0	0
12/8/2024 9:06	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 9:06	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 9:07	46301	ROHR_T1	1	1	0	4.8	4.9	0.1	0	0	0	0	0	0	0	0
12/8/2024 9:07	46302	ROHR_T1	4	6	2	0.38	0.13	-0.25	-0.29	-0.3	0	0	0	0	0	0
12/8/2024 9:07	65402	MARI_T1	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
12/8/2024 9:08	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 9:09	67605	WARW_T1	2	6	4	0.15	0.43	0.28	-1.15	-1.18	0	0	0	0	0	0
12/8/2024 9:10	16102	BING_T2	1	8	7	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/8/2024 9:10	16103	BING_T2	0	0	0	0	0	0	-1.63	-1.66	1	1	0	900	900	0
12/8/2024 9:10	44301	BEAV_T2	1	3	2	0.5	0.8	0.3	0	0	0	0	0	0	0	0
12/8/2024 9:14	63501	HEID_TBK1-2	33	38	5	0.33	0.49	0.16	-0.38	-0.45	1	1	0	900	900	0
12/8/2024 9:14	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 9:16	63601	LETO_T1	5	6	1	0.8	0.68	-0.12	0.29	0.3	1	1	0	900	900	0
12/8/2024 9:17	64402	LAND_T2	0	0	0	0	0	0	-0.58	-0.55	1	1	0	600	600	0
12/8/2024 9:17	64404	LAND_T2	16	0	-16	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/8/2024 9:18	25402	LAHA_T2	0	0	0	0	0	0	-0.57	-0.55	0	0	0	0	0	0
12/8/2024 9:18	45702	LIND_T2	0	0	0	0	0	0	-1.77	-1.76	0	0	0	0	0	0
12/8/2024 9:19	63601	LETO_T1	5	6	1	0.8	0.68	-0.12	0.29	0.3	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/8/2024 9:20	60301	TWVA_T2	0	0	0	0	0	0	-4.1	-4.11	4	4	0	3600	3600	0
12/8/2024 9:21	60502	NMAN_T2	0	1	1	0	0.6	0.6	-0.57	-0.56	0	0	0	0	0	0
12/8/2024 9:21	60504	NMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
12/8/2024 9:26	16102	BING_T2	5	6	1	0.1	0.15	0.05	-0.11	-0.16	0	0	0	0	0	0
12/8/2024 9:26	45501	DERR_T2	0	0	0	0	0	0	-0.92	-0.75	2	2	0	1800	1800	0
12/8/2024 9:27	46206	DANV_T2	0	0	0	0	0	0	1.91	2.01	6	6	0	6300	6300	0
12/8/2024 9:28	61302	EARL_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
12/8/2024 9:28	61304	EARL_T1	0	0	0	0	0	0	-0.99	-1.01	1	1	0	600	600	0
12/8/2024 9:29	63501	HEID_TBK1-2	32	41	9	0.29	0.5	0.21	-0.45	-0.38	1	1	0	900	900	0
12/8/2024 9:30	45501	DERR_T2	0	0	0	0	0	0	-0.92	-0.75	2	2	0	1800	1800	0
12/8/2024 9:31	63501	HEID_TBK1-2	38	42	4	0.49	0.52	0.03	-1.35	-1.14	3	3	0	2700	2700	0
12/8/2024 9:31	20603	GRWO_T2	0	0	0	0	0	0	-0.56	-0.58	1	1	0	900	900	0
12/8/2024 9:31	54506	ENOL_T2	0	0	0	0	0	0	0.25	0.26	1	1	0	600	600	0
12/8/2024 9:31	20601	GRWO_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
12/8/2024 9:32	63801	HEMP_T1	0	1	1	0	0.3	0.3	-0.38	-0.38	0	0	0	0	0	0
12/8/2024 9:32	63804	HEMP_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
12/8/2024 9:33	46801	HEPB_T2	2	2	0	0.35	0.45	0.1	0.59	0.59	0	0	0	0	0	0
12/8/2024 9:33	40602	PIGR_T1	1	1	0	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
12/8/2024 9:35	44905	SCOT_T1	10	13	3	0.57	0.34	-0.23	0	0	0	0	0	0	0	0
12/8/2024 9:35	67605	WARW_T1	6	13	7	0.43	0.35	-0.08	-1.18	-1.18	0	0	0	0	0	0
12/8/2024 9:37	14403	SSLA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 9:38	66202	SISP_T2	0	0	0	0	0	0	-0.86	-0.85	0	0	0	0	0	0
12/8/2024 9:38	10801	CHHI_T1	0	0	0	0	0	0	-1.52	-1.54	2	2	0	1500	1500	0
12/8/2024 9:40	10602	BLGL_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
12/8/2024 9:42	62104	ELAN_T1	0	0	0	0	0	0	0.7	0.7	2	2	0	2400	2400	0
12/8/2024 9:42	46203	DANV_T2	0	0	0	0	0	0	-1.94	-1.98	0	0	0	0	0	0
12/8/2024 9:43	62104	ELAN_T1	0	0	0	0	0	0	0.35	0.35	1	1	0	1200	1200	0
12/8/2024 9:45	64203	KINZ_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
12/8/2024 9:45	64201	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/8/2024 9:45	64204	KINZ_T1	2	1	-1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
12/8/2024 9:46	22602	KIMB_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
12/8/2024 9:46	46203	DANV_T2	0	0	0	0	0	0	-1.94	-1.98	0	0	0	0	0	0
12/8/2024 9:49	44201	POIN_T1	0	0	0	0	0	0	-3.97	-3.97	2	2	0	2400	2400	0
12/8/2024 9:50	44201	POIN_T1	0	0	0	0	0	0	-1.98	-1.98	1	1	0	1200	1200	0
12/8/2024 9:51	44201	POIN_T1	0	0	0	0	0	0	-1.98	-1.98	1	1	0	1200	1200	0
12/8/2024 9:52	60201	ATGL_T2	3	3	0	0.2	0.23	0.03	-0.4	-0.45	0	0	0	0	0	0
12/8/2024 9:52	44201	POIN_T1	0	0	0	0	0	0	-1.98	-2	1	1	0	1200	1200	0
12/8/2024 9:53	44201	POIN_T1	0	0	0	0	0	0	-1.98	-2	1	1	0	1200	1200	0
12/8/2024 9:53	65802	RTWN_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
12/8/2024 9:53	65803	RTWN_T2	20	4	-16	0.32	0.23	-0.09	0	0	0	0	0	0	0	0
12/8/2024 9:54	44201	POIN_T1	0	0	0	0	0	0	-1.98	-2	1	1	0	1200	1200	0
12/8/2024 9:55	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 9:55	60801	BUCK_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/8/2024 9:55	60803	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 9:55	43102	SMIL_T2	6	0	-6	0.25	0.4	0.15	0	0	0	0	0	0	0	0
12/8/2024 9:55	43101	SMIL_T2	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
12/8/2024 9:56	46203	DANV_T2	0	0	0	0	0	0	-1.98	-1.97	0	0	0	0	0	0
12/8/2024 9:57	43102	SMIL_T2	6	6	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
12/8/2024 9:57	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 9:57	43101	SMIL_T2	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
12/8/2024 10:00	46203	DANV_T2	0	0	0	0	0	0	-1.98	-1.97	0	0	0	0	0	0
12/8/2024 10:02	52001	LING_T1	0	0	0	0	0	0	-1.03	-1.05	0	0	0	0	0	0
12/8/2024 10:04	13303	ORVI_T1	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
12/8/2024 10:07	44905	SCOT_T1	13	39	26	0.31	0.64	0.33	0	0	0	0	0	0	0	0
12/8/2024 10:07	47403	PENS_T1	0	7	7	0	0.27	0.27	0	0	0	0	0	0	0	0
12/8/2024 10:07	47401	PENS_T1	4	27	23	0.5	0.41	-0.09	-0.01	0.06	0	0	0	0	0	0
12/8/2024 10:08	27603	PIRI_T2	0	0	0	0	0	0	-1.8	-1.79	2	2	0	1800	1800	0
12/8/2024 10:10	61302	EARL_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
12/8/2024 10:10	61304	EARL_T1	0	0	0	0	0	0	-1.02	-1.05	1	1	0	600	600	0
12/8/2024 10:12	61305	EARL_T1	0	0	0	0	0	0	-0.28	-0.36	1	1	0	900	900	0
12/8/2024 10:12	61302	EARL_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
12/8/2024 10:13	63305	GREE_T1	7	8	1	0.41	0.3	-0.11	-2.58	-2.62	1	1	0	900	900	0
12/8/2024 10:13	44301	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/8/2024 10:14	63302	GREE_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
12/8/2024 10:14	63305	GREE_T1	7	8	1	0.41	0.3	-0.11	-2.58	-2.62	1	1	0	900	900	0
12/8/2024 10:15	46801	HEPB_T2	0	2	2	0	0.3	0.3	0.57	0.56	0	0	0	0	0	0
12/8/2024 10:19	63501	HEID_TBK1-2	41	51	10	0.54	0.71	0.17	-0.54	-0.44	1	1	0	900	900	0
12/8/2024 10:19	64101	REFR_T1	1	1	0	0.1	0.7	0.6	0.16	0.1	0	0	0	0	0	0
12/8/2024 10:20	64101	REFR_T1	1	1	0	0.1	0.7	0.6	0.16	0.1	0	0	0	0	0	0
12/8/2024 10:21	41902	REED_T1	0	8	8	0	0	0	0.91	0.95	0	0	0	0	0	0
12/8/2024 10:21	64101	REFR_T1	1	1	0	0.1	0.7	0.6	0.1	0.08	0	0	0	0	0	0
12/8/2024 10:22	10801	CHHI_T1	0	1	1	0	0.2	0.2	-1.53	-1.53	2	2	0	1500	1500	0
12/8/2024 10:22	64101	REFR_T1	1	1	0	0.1	0.7	0.6	0.3	0.24	0	0	0	0	0	0
12/8/2024 10:23	64101	REFR_T1	1	1	0	0.1	0.7	0.6	0.3	0.24	0	0	0	0	0	0
12/8/2024 10:28	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 10:30	63501	HEID_TBK1-2	44	51	7	0.52	0.73	0.21	-0.44	-0.47	1	1	0	900	900	0
12/8/2024 10:34	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 10:34	51101	CARL_T1	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
12/8/2024 10:34	51102	CARL_T1	1	1	0	0.9	1.5	0.6	0	0	0	0	0	0	0	0
12/8/2024 10:34	51109	CARL_T1	1	1	0	2.2	0	-2.2	0	0	0	0	0	0	0	0
12/8/2024 10:40	10801	CHHI_T1	1	1	0	0.2	0.3	0.1	-1.53	-1.55	2	2	0	1500	1500	0
12/8/2024 10:43	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/8/2024 10:43	52403	GRPA_T2	10	11	1	0.49	0.46	-0.03	0	0	0	0	0	0	0	0
12/8/2024 10:43	52402	GRPA_T2	2	5	3	0.5	0.24	-0.26	-0.76	-0.69	0	0	0	0	0	0
12/8/2024 10:45	61302	EARL_T1	1	1	0	0.1	0.3	0.2	-0.14	-0.19	1	1	0	1200	1200	0
12/8/2024 10:47	55405	SHER_T1	9	9	0	0.7	0.78	0.08	0	0	0	0	0	0	0	0
12/8/2024 10:47	55507	HERS_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/8/2024 10:48	52402	GRPA_T2	3	2	-1	0.33	0.1	-0.23	-0.76	-0.69	0	0	0	0	0	0
12/8/2024 10:48	52403	GRPA_T2	11	4	-7	0.45	0.48	0.03	0	0	0	0	0	0	0	0
12/8/2024 10:49	64101	REFR_T1	1	1	0	0.7	0.6	-0.1	0.16	0.28	0	0	0	0	0	0
12/8/2024 10:50	64101	REFR_T1	1	1	0	0.7	0.6	-0.1	0.16	0.28	0	0	0	0	0	0
12/8/2024 10:51	57205	ROSS_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
12/8/2024 10:52	64101	REFR_T1	1	1	0	0.7	0.6	-0.1	0.14	0.12	0	0	0	0	0	0
12/8/2024 10:52	13704	SCHN_T2	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
12/8/2024 10:53	64101	REFR_T1	1	1	0	0.7	0.6	-0.1	0.28	0.24	0	0	0	0	0	0
12/8/2024 10:54	13704	SCHN_T2	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
12/8/2024 10:54	60801	BUCK_T1	2	3	1	0.35	0.3	-0.05	-0.18	-0.21	0	0	0	0	0	0
12/8/2024 10:54	60803	BUCK_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/8/2024 10:56	60101	COCA_T1	4	6	2	0.23	0.33	0.1	0.6	0.51	0	0	0	0	0	0
12/8/2024 10:57	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 10:57	60101	COCA_T1	4	6	2	0.23	0.33	0.1	0.3	0.26	0	0	0	0	0	0
12/8/2024 10:57	60102	COCA_T1	0	0	0	0	0	0	-0.18	-0.07	2	2	0	1200	1200	0
12/8/2024 10:57	60104	COCA_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
12/8/2024 10:58	60101	COCA_T1	4	6	2	0.23	0.33	0.1	0.3	0.26	0	0	0	0	0	0
12/8/2024 10:58	46803	HEPB_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
12/8/2024 10:58	46801	HEPB_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
12/8/2024 10:59	60101	COCA_T1	4	6	2	0.23	0.33	0.1	0.3	0.26	0	0	0	0	0	0
12/8/2024 11:02	46801	HEPB_T2	2	2	0	0.5	0.5	0	0.56	0.59	0	0	0	0	0	0
12/8/2024 11:07	55105	WERT_T1	0	0	0	0	0	0	-0.65	-0.64	1	1	0	900	900	0
12/8/2024 11:08	60201	ATGL_T2	23	67	44	0.19	0.27	0.08	-0.42	-0.44	0	0	0	0	0	0
12/8/2024 11:08	55101	WERT_T1	0	0	0	0	0	0	-3.07	-3.09	1	1	0	600	600	0
12/8/2024 11:10	44301	BEAV_T2	4	9	5	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
12/8/2024 11:10	55101	WERT_T1	0	0	0	0	0	0	-9.2	-9.27	3	3	0	1800	1800	0
12/8/2024 11:11	24702	FLND_T2	0	12	12	0	0	0	-0.64	-0.63	1	1	0	1200	1200	0
12/8/2024 11:11	55101	WERT_T1	0	0	0	0	0	0	-3.07	-3.09	1	1	0	600	600	0
12/8/2024 11:11	24703	FLND_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/8/2024 11:12	41305	FISH_T1	2	1	-1	0.45	0.6	0.15	0	0	0	0	0	0	0	0
12/8/2024 11:12	16101	BING_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/8/2024 11:12	55101	WERT_T1	0	0	0	0	0	0	-3.07	-3.09	1	1	0	600	600	0
12/8/2024 11:12	41301	FISH_T1	55	36	-19	0.22	0.26	0.04	0	0	0	0	0	0	0	0
12/8/2024 11:12	16103	BING_T2	4	5	1	0.33	0.34	0.01	0	0	0	0	0	0	0	0
12/8/2024 11:12	16102	BING_T2	25	25	0	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
12/8/2024 11:14	16101	BING_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/8/2024 11:14	16102	BING_T2	25	25	0	0.37	0.35	-0.02	-0.08	-0.1	0	0	0	0	0	0
12/8/2024 11:14	16103	BING_T2	4	5	1	0.33	0.34	0.01	0	0	0	0	0	0	0	0
12/8/2024 11:15	41305	FISH_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
12/8/2024 11:15	41301	FISH_T1	9	37	28	0.44	0.25	-0.19	-0.4	-0.39	0	0	0	0	0	0
12/8/2024 11:16	40101	HUNT_T2	149	147	-2	0.71	0.78	0.07	0	0	0	0	0	0	0	0
12/8/2024 11:17	53903	HALI_T2	2	2	0	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
12/8/2024 11:17	53901	HALI_T2	2	1	-1	0.3	1	0.7	-1.42	-1.46	0	0	0	0	0	0
12/8/2024 11:17	53902	HALI_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
12/8/2024 11:18	45702	LIND_T2	1	1	0	0.2	0.2	0	-1.8	-1.79	0	0	0	0	0	0
12/8/2024 11:18	40101	HUNT_T2	149	147	-2	0.71	0.78	0.07	-1.32	-1.36	0	0	0	0	0	0
12/8/2024 11:19	41301	FISH_T1	9	37	28	0.44	0.25	-0.19	-0.4	-0.39	0	0	0	0	0	0
12/8/2024 11:19	40101	HUNT_T2	149	147	-2	0.71	0.78	0.07	-1.32	-1.36	0	0	0	0	0	0
12/8/2024 11:19	41305	FISH_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
12/8/2024 11:20	64101	REFR_T1	0	3	3	0	0.13	0.13	0.24	0.26	0	0	0	0	0	0
12/8/2024 11:21	45702	LIND_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/8/2024 11:21	45701	LIND_T2	0	0	0	0	0	0	-1.63	-1.63	0	0	0	0	0	0
12/8/2024 11:22	13302	ORVI_T2	2	2	0	0.65	1	0.35	1.49	1.51	0	0	0	0	0	0
12/8/2024 11:26	26002	WDAM_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
12/8/2024 11:26	26001	WDAM_T1	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
12/8/2024 11:28	43101	SMIL_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
12/8/2024 11:28	43102	SMIL_T2	5	6	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
12/8/2024 11:28	43108	SMIL_T2	0	3	3	0	0.13	0.13	-0.95	-0.94	1	1	0	1200	1200	0
12/8/2024 11:32	64305	LINC_T1	1	1	0	0.9	0.9	0	-0.78	-0.76	0	0	0	0	0	0
12/8/2024 11:32	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/8/2024 11:32	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 11:40	44301	BEAV_T2	7	14	7	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/8/2024 11:40	10903	COOP_T2	9	9	0	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
12/8/2024 11:40	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 11:42	44301	BEAV_T2	7	14	7	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/8/2024 11:43	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 11:43	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 11:44	63305	GREE_T1	15	15	0	0.35	0.37	0.02	0	0	0	0	0	0	0	0
12/8/2024 11:44	44301	BEAV_T2	7	14	7	0.2	0.25	0.05	-0.92	-0.91	1	1	0	600	600	0
12/8/2024 11:44	44801	EDAN_T2	0	1	1	0	0.2	0.2	-0.94	-0.92	0	0	0	0	0	0
12/8/2024 11:44	63306	GREE_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/8/2024 11:45	40703	FFLD_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
12/8/2024 11:45	63306	GREE_T1	1	1	0	0.3	0.5	0.2	-2.2	-2.17	1	1	0	900	900	0
12/8/2024 11:45	40701	FFLD_T1	26	25	-1	0.22	0.26	0.04	0	0	0	0	0	0	0	0
12/8/2024 11:45	40702	FFLD_T1	42	77	35	0.15	0.18	0.03	0	0	0	0	0	0	0	0
12/8/2024 11:45	63305	GREE_T1	15	15	0	0.31	0.4	0.09	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/8/2024 11:46	40701	FFLD_T1	26	25	-1	0.22	0.26	0.04	0	0	0	0	0	0	0	0
12/8/2024 11:46	17401	FOHI_T1	0	0	0	0	0	0	-1.05	-1.02	0	0	0	0	0	0
12/8/2024 11:46	63306	GREE_T1	1	1	0	0.3	0.5	0.2	-4.41	-4.35	2	2	0	1800	1800	0
12/8/2024 11:46	63305	GREE_T1	15	15	0	0.31	0.4	0.09	0	0	0	0	0	0	0	0
12/8/2024 11:46	40703	FFLD_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
12/8/2024 11:46	40702	FFLD_T1	42	77	35	0.15	0.18	0.03	-1.3	-1.25	1	1	0	1200	1200	0
12/8/2024 11:46	52403	GRPA_T2	20	22	2	0.56	0.68	0.12	-0.16	-0.23	0	0	0	0	0	0
12/8/2024 11:46	52402	GRPA_T2	4	5	1	0.38	0.44	0.06	0	0	0	0	0	0	0	0
12/8/2024 11:46	52401	GRPA_T2	8	1	-7	0.19	0.8	0.61	0	0	0	0	0	0	0	0
12/8/2024 11:47	52401	GRPA_T2	8	1	-7	0.19	0.8	0.61	0	0	0	0	0	0	0	0
12/8/2024 11:47	52403	GRPA_T2	20	22	2	0.56	0.68	0.12	-0.16	-0.23	0	0	0	0	0	0
12/8/2024 11:47	53903	HALI_T2	2	4	2	1.1	0.6	-0.5	-0.11	-0.09	0	0	0	0	0	0
12/8/2024 11:47	52402	GRPA_T2	4	5	1	0.38	0.44	0.06	0	0	0	0	0	0	0	0
12/8/2024 11:47	53901	HALI_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
12/8/2024 11:47	53902	HALI_T2	1	2	1	5.8	2.95	-2.85	0	0	0	0	0	0	0	0
12/8/2024 11:48	53902	HALI_T2	1	2	1	5.8	2.95	-2.85	0	0	0	0	0	0	0	0
12/8/2024 11:48	53903	HALI_T2	2	4	2	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
12/8/2024 11:48	53901	HALI_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
12/8/2024 11:51	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 11:56	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 11:57	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 11:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 12:00	46801	HEPB_T2	0	2	2	0	0.65	0.65	0.57	0.6	0	0	0	0	0	0
12/8/2024 12:09	44801	EDAN_T2	1	1	0	0.2	0	-0.2	-0.48	-0.49	0	0	0	0	0	0
12/8/2024 12:12	42701	AUGU_T1	1	1	0	0.6	0.4	-0.2	0	0	2	2	0	1800	1800	0
12/8/2024 12:14	60101	COCA_T1	6	6	0	0.23	0.23	0	0.22	0.21	0	0	0	0	0	0
12/8/2024 12:19	40901	JESH_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
12/8/2024 12:19	40902	JESH_T1	0	0	0	0	0	0	-1.43	-1.42	1	1	0	600	600	0
12/8/2024 12:21	44901	SCOT_T2	0	0	0	0	0	0	-0.44	-0.59	0	0	0	0	0	0
12/8/2024 12:24	60201	ATGL_T2	122	132	10	0.31	0.35	0.04	0	0	0	0	0	0	0	0
12/8/2024 12:25	60201	ATGL_T2	122	132	10	0.31	0.35	0.04	-0.5	-0.39	0	0	0	0	0	0
12/8/2024 12:28	46501	LOHA_T1	2	1	-1	0.65	0	-0.65	0	0	0	0	0	0	0	0
12/8/2024 12:28	46506	LOHA_T1	3	3	0	2.03	1.83	-0.2	0	0	0	0	0	0	0	0
12/8/2024 12:28	46504	LOHA_T1	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
12/8/2024 12:28	46503	LOHA_T1	0	1	1	0	0	0	-0.61	-0.61	0	0	0	0	0	0
12/8/2024 12:29	54505	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/8/2024 12:29	54504	ENOL_T2	0	0	0	0	0	0	-1.07	-1.08	1	1	0	600	600	0
12/8/2024 12:36	55001	NEWP_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
12/8/2024 12:36	55002	NEWP_T1	7	9	2	0.84	0.9	0.06	-0.22	-0.22	0	0	0	0	0	0
12/8/2024 12:36	13302	ORVI_T2	4	5	1	0.68	0.58	-0.1	1.51	1.52	0	0	0	0	0	0
12/8/2024 12:38	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/8/2024 12:39	42701	AUGU_T1	1	1	0	0.3	0.6	0.3	0	0	2	2	0	1800	1800	0
12/8/2024 12:40	42701	AUGU_T1	1	1	0	0.3	0.6	0.3	0	0	2	2	0	1800	1800	0
12/8/2024 12:41	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/8/2024 12:42	10805	OHHI_T2	1	1	0	7.9	7.1	-0.8	-1.24	-1.29	1	1	0	600	600	0
12/8/2024 12:42	60801	BUCK_T1	9	15	6	0.22	0.25	0.03	-0.19	-0.19	0	0	0	0	0	0
12/8/2024 12:42	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
12/8/2024 12:42	60803	BUCK_T1	4	9	5	0.18	0.19	0.01	0	0	0	0	0	0	0	0
12/8/2024 12:43	42701	AUGU_T1	1	1	0	0.3	0.6	0.3	0	0	2	2	0	1800	1800	0
12/8/2024 12:48	55507	HERS_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/8/2024 12:49	55001	NEWP_T1	1	1	0	0.7	0.9	0.2	-0.38	-0.35	0	0	0	0	0	0
12/8/2024 12:49	55002	NEWP_T1	9	7	-2	0.83	1.13	0.3	0	0	0	0	0	0	0	0
12/8/2024 12:50	66502	SMAN_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
12/8/2024 12:50	66504	SMAN_T2	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
12/8/2024 12:52	66502	SMAN_T2	2	2	0	0.25	0.2	-0.05	-0.23	-0.21	0	0	0	0	0	0
12/8/2024 12:52	66504	SMAN_T2	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
12/8/2024 12:53	55001	NEWP_T1	1	1	0	0.7	0.9	0.2	-0.35	-0.4	0	0	0	0	0	0
12/8/2024 12:53	55002	NEWP_T1	9	7	-2	0.83	1.13	0.3	0	0	0	0	0	0	0	0
12/8/2024 12:54	66502	SMAN_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
12/8/2024 12:54	66504	SMAN_T2	2	2	0	0.45	0.55	0.1	-1.24	-1.25	0	0	0	0	0	0
12/8/2024 12:55	66504	SMAN_T2	2	2	0	0.45	0.55	0.1	-0.62	-0.63	0	0	0	0	0	0
12/8/2024 12:55	66502	SMAN_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
12/8/2024 12:56	16102	BING_T2	19	19	0	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
12/8/2024 12:56	16101	BING_T2	1	0	-1	0.2	0	-0.2	0.42	0.39	0	0	0	0	0	0
12/8/2024 12:56	16103	BING_T2	4	4	0	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
12/8/2024 12:58	42701	AUGU_T1	1	1	0	0.6	0.5	-0.1	0	0	2	2	0	1800	1800	0
12/8/2024 12:58	60201	ATGL_T2	125	133	8	0.34	0.32	-0.02	-0.47	-0.46	0	0	0	0	0	0
12/8/2024 13:02	65503	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/8/2024 13:02	42902	MIDD_T2	2	3	1	0.5	0.47	-0.03	-1.37	-1.38	1	1	0	600	600	0
12/8/2024 13:02	65502	MOJO_T2	0	0	0	0	0	0	-1.02	-1.39	0	0	0	0	0	0
12/8/2024 13:02	42903	MIDD_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
12/8/2024 13:03	65503	MOJO_T2	0	1	1	0	0.1	0.1	-0.8	-0.75	0	0	0	0	0	0
12/8/2024 13:03	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 13:03	42903	MIDD_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
12/8/2024 13:03	42902	MIDD_T2	2	3	1	0.5	0.47	-0.03	-1.37	-1.38	1	1	0	600	600	0
12/8/2024 13:05	65503	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/8/2024 13:05	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 13:07	52502	PROG_T2	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
12/8/2024 13:07	42902	MIDD_T2	2	3	1	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
12/8/2024 13:07	42903	MIDD_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
12/8/2024 13:08	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 13:08	14801	TREI_T2	2	1	-1	2.3	0.3	-2	0	0	0	0	0	0	0	0
12/8/2024 13:08	14802	TREI_T2	0	0	0	0	0	0	1.25	1.15	0	0	0	0	0	0
12/8/2024 13:09	52502	PROG_T2	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
12/8/2024 13:10	14801	TREI_T2	2	1	-1	2.3	0.3	-2	0	0	0	0	0	0	0	0
12/8/2024 13:10	14802	TREI_T2	0	0	0	0	0	0	0.83	0.77	0	0	0	0	0	0
12/8/2024 13:11	52402	GRPA_T2	3	7	4	0.4	0.22	-0.18	0	0	0	0	0	0	0	0
12/8/2024 13:11	52401	GRPA_T2	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0	0
12/8/2024 13:11	52403	GRPA_T2	16	11	-5	0.58	0.64	0.06	-0.24	-0.25	0	0	0	0	0	0
12/8/2024 13:20	65502	MOJO_T2	0	0	0	0	0	0	-1.39	-1.37	0	0	0	0	0	0
12/8/2024 13:20	65503	MOJO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/8/2024 13:22	65502	MOJO_T2	0	0	0	0	0	0	-1.37	-1.4	0	0	0	0	0	0
12/8/2024 13:22	65503	MOJO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/8/2024 13:36	64101	REFR_T1	1	9	8	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
12/8/2024 13:37	64101	REFR_T1	1	9	8	0.3	0.24	-0.06	0.09	0.05	0	0	0	0	0	0
12/8/2024 13:41	46004	BERW_T2	1	0	-1	1.8	0	-1.8	-0.81	-0.84	0	0	0	0	0	0
12/8/2024 13:47	52403	GRPA_T2	10	4	-6	0.53	0.65	0.12	-0.24	-0.24	0	0	0	0	0	0
12/8/2024 13:47	52401	GRPA_T2	2	4	2	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
12/8/2024 13:47	52402	GRPA_T2	6	7	1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
12/8/2024 13:50	52004	LING_T2	2	2	0	3.75	3.85	0.1	-0.03	-0.04	0	0	0	0	0	0
12/8/2024 14:02	42902	MIDD_T2	3	3	0	0.7	0.7	0	-1.41	-1.42	1	1	0	600	600	0
12/8/2024 14:02	42903	MIDD_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
12/8/2024 14:05	42902	MIDD_T2	3	3	0	0.7	0.7	0	-1.41	-1.42	1	1	0	600	600	0
12/8/2024 14:05	42903	MIDD_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
12/8/2024 14:06	67402	WAKE_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
12/8/2024 14:06	42902	MIDD_T2	3	3	0	0.7	0.7	0	-1.41	-1.42	1	1	0	600	600	0
12/8/2024 14:06	55002	NEWP_T1	7	7	0	1.09	1.06	-0.03	-0.24	-0.25	0	0	0	0	0	0
12/8/2024 14:06	55001	NEWP_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/8/2024 14:06	42903	MIDD_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
12/8/2024 14:10	14802	TREI_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
12/8/2024 14:10	42902	MIDD_T2	3	3	0	0.7	0.7	0	-1.42	-1.37	1	1	0	600	600	0
12/8/2024 14:10	42903	MIDD_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
12/8/2024 14:22	14601	SWHI_T1	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
12/8/2024 14:24	14601	SWHI_T1	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
12/8/2024 14:26	16103	BING_T2	3	6	3	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
12/8/2024 14:26	16101	BING_T2	0	0	0	0	0	0	0.35	0.38	0	0	0	0	0	0
12/8/2024 14:26	16102	BING_T2	16	21	5	0.33	0.38	0.05	0	0	0	0	0	0	0	0
12/8/2024 14:29	40101	HUNT_T2	4	15	11	0.5	1	0.5	-1.51	-1.53	0	0	0	0	0	0
12/8/2024 14:32	41002	LAUR_T2	17	18	1	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
12/8/2024 14:32	41001	LAUR_T2	64	63	-1	0.26	0.27	0.01	0	0	0	0	0	0	0	0
12/8/2024 14:33	47103	MARL_T2	26	31	5	0.22	0.22	0	-0.62	-0.57	0	0	0	0	0	0
12/8/2024 14:33	42902	MIDD_T2	3	2	-1	0.33	0.3	-0.03	-1.37	-1.41	1	1	0	600	600	0
12/8/2024 14:33	47102	MARL_T2	13	13	0	0.55	0.56	0.01	0	0	0	0	0	0	0	0
12/8/2024 14:33	42903	MIDD_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
12/8/2024 14:35	15603	NSTR_T2	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
12/8/2024 14:36	55002	NEWP_T1	7	7	0	0.57	0.76	0.19	-0.26	-0.25	0	0	0	0	0	0
12/8/2024 14:38	55002	NEWP_T1	7	7	0	0.57	0.76	0.19	-0.25	-0.26	0	0	0	0	0	0
12/8/2024 14:49	66303	MCGO_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
12/8/2024 14:49	66302	MCGO_T2	0	0	0	0	0	0	-1.84	-1.73	0	0	0	0	0	0
12/8/2024 14:52	55002	NEWP_T1	7	6	-1	0.66	1.05	0.39	0	0	0	0	0	0	0	0
12/8/2024 14:52	55001	NEWP_T1	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
12/8/2024 14:58	54503	ENOL_T2	0	0	0	0	0	0	-1.07	-1.09	1	1	0	600	600	0
12/8/2024 14:58	54505	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/8/2024 14:58	14204	EALL_T2	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
12/8/2024 15:03	66302	MCGO_T2	0	1	1	0	0	0	-0.86	-0.97	0	0	0	0	0	0
12/8/2024 15:03	66303	MCGO_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
12/8/2024 15:05	51102	CARL_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
12/8/2024 15:05	51109	CARL_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/8/2024 15:05	51101	CARL_T1	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
12/8/2024 15:08	14603	SWHI_T1	0	0	0	0	0	0	-1.67	-1.68	2	2	0	1200	1200	0
12/8/2024 15:10	14603	SWHI_T1	0	0	0	0	0	0	-1.67	-1.68	2	2	0	1200	1200	0
12/8/2024 15:19	66302	MCGO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 15:19	66303	MCGO_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
12/8/2024 15:19	66301	MCGO_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
12/8/2024 15:22	13604	RICH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 15:22	13601	RICH_T2	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
12/8/2024 15:28	28102	TWLA_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
12/8/2024 15:33	28102	TWLA_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
12/8/2024 15:37	55002	NEWP_T1	6	6	0	1.02	1.05	0.03	-0.27	-0.27	0	0	0	0	0	0
12/8/2024 15:44	24101	EHAZ_T1	12	14	2	0.74	0.69	-0.05	0	0	0	0	0	0	0	0
12/8/2024 15:44	24105	EHAZ_T1	4	13	9	6.4	6.8	0.4	0	0	0	0	0	0	0	0
12/8/2024 15:44	24102	EHAZ_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
12/8/2024 15:44	24103	EHAZ_T1	0	0	0	0	0	0	-1.55	-1.51	0	0	0	0	0	0
12/8/2024 15:59	17802	GILB_T1	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
12/8/2024 17:56	61302	EARL_T1	0	0	0	0	0	0	-0.1	-0.12	1	1	0	1200	1200	0
12/8/2024 18:26	26001	WDAM_T1	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
12/8/2024 18:30	10602	BLGL_T2	1	1	0	9.6	9.8	0.2	0.17	0.12	0	0	0	0	0	0
12/8/2024 18:31	15601	NSTR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:31	22602	KIMB_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
12/8/2024 18:31	15603	NSTR_T2	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
12/8/2024 18:34	16102	BING_T2	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
12/8/2024 18:34	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:34	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/8/2024 18:36	14801	TREI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/8/2024 18:36	16101	BING_T2	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
12/8/2024 18:36	14802	TREI_T2	0	0	0	0	0	0	0.92	0.96	0	0	0	0	0	0
12/8/2024 18:37	47403	PENS_T1	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
12/8/2024 18:37	63501	HEID_TBK1-2	12	34	22	0.13	0.21	0.08	-0.57	-0.58	1	1	0	900	900	0
12/8/2024 18:37	47401	PENS_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
12/8/2024 18:37	44301	BEAV_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
12/8/2024 18:38	24103	EHAZ_T1	0	0	0	0	0	0	-1.52	-1.51	0	0	0	0	0	0
12/8/2024 18:38	42902	MIDD_T2	0	0	0	0	0	0	-1.28	-1.31	1	1	0	600	600	0
12/8/2024 18:38	44201	POIN_T1	70	140	70	0.18	0.28	0.1	-1.97	-2.03	1	1	0	1200	1200	0
12/8/2024 18:38	10801	CHHI_T1	0	0	0	0	0	0	-1.49	-1.5	2	2	0	1500	1500	0
12/8/2024 18:38	52004	LING_T2	2	2	0	2.55	2.65	0.1	0.04	0.05	0	0	0	0	0	0
12/8/2024 18:38	46301	ROHR_T1	1	1	0	4.7	5	0.3	0	0	0	0	0	0	0	0
12/8/2024 18:38	24105	EHAZ_T1	4	4	0	6.58	6.3	-0.28	0	0	0	0	0	0	0	0
12/8/2024 18:38	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:38	13303	ORVI_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
12/8/2024 18:38	24102	EHAZ_T1	2	10	8	1	0.45	-0.55	0	0	0	0	0	0	0	0
12/8/2024 18:38	10805	CHHI_T2	1	7	6	7.8	1.5	-6.3	-1.18	-1.18	1	1	0	600	600	0
12/8/2024 18:38	24101	EHAZ_T1	29	35	6	2.12	1.98	-0.14	0	0	0	0	0	0	0	0
12/8/2024 18:38	46302	ROHR_T1	3	3	0	1.1	1.87	0.77	-1.06	-1.06	0	0	0	0	0	0
12/8/2024 18:39	44901	SCOT_T2	0	0	0	0	0	0	-0.46	-0.5	0	0	0	0	0	0
12/8/2024 18:40	60101	COCA_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
12/8/2024 18:40	63306	GREE_T1	0	0	0	0	0	0	-2.18	-2.18	1	1	0	900	900	0
12/8/2024 18:40	14802	TREI_T2	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
12/8/2024 18:40	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
12/8/2024 18:40	14801	TREI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/8/2024 18:40	24702	FLND_T2	5	12	7	0.28	0	-0.28	-0.42	-0.51	1	1	0	1200	1200	0
12/8/2024 18:40	42701	AUGU_T1	1	1	0	0.2	0.3	0.1	0	0	4	4	0	3600	3600	0
12/8/2024 18:41	66504	SMAN_T2	0	0	0	0	0	0	-3.84	-3.91	2	2	0	2400	2400	0
12/8/2024 18:41	46204	DANV_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
12/8/2024 18:41	46206	DANV_T2	1	1	0	0.7	0	-0.7	1.41	1.29	2	2	0	2100	2100	0
12/8/2024 18:41	66505	SMAN_T2	3	3	0	0.43	0.23	-0.2	0	0	0	0	0	0	0	0
12/8/2024 18:41	60801	BUCK_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
12/8/2024 18:42	44201	POIN_T1	70	140	70	0.18	0.28	0.1	-1.97	-2.03	1	1	0	1200	1200	0
12/8/2024 18:42	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:42	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:42	14603	SWHI_T1	0	0	0	0	0	0	-1.62	-1.61	2	2	0	1200	1200	0
12/8/2024 18:42	25402	LAHA_T2	0	0	0	0	0	0	-0.79	-0.77	0	0	0	0	0	0
12/8/2024 18:42	60102	COCA_T1	0	0	0	0	0	0	0.21	0.21	1	1	0	600	600	0
12/8/2024 18:42	14802	TREI_T2	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
12/8/2024 18:42	63501	HEID_TBK1-2	12	34	22	0.13	0.21	0.08	-0.57	-0.58	1	1	0	900	900	0
12/8/2024 18:42	16103	BING_T2	0	0	0	0	0	0	-0.98	-0.99	2	2	0	1500	1500	0
12/8/2024 18:42	14801	TREI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/8/2024 18:43	46204	DANV_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
12/8/2024 18:43	60201	ATGL_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
12/8/2024 18:43	46206	DANV_T2	1	1	0	0.7	0	-0.7	1.41	1.29	2	2	0	2100	2100	0
12/8/2024 18:43	60101	COCA_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
12/8/2024 18:44	41301	FISH_T1	1	3	2	2.5	1.1	-1.4	0	0	0	0	0	0	0	0
12/8/2024 18:44	62104	ELAN_T1	0	0	0	0	0	0	0.24	0.27	1	1	0	1200	1200	0
12/8/2024 18:44	14603	SWHI_T1	0	0	0	0	0	0	-1.62	-1.61	2	2	0	1200	1200	0
12/8/2024 18:44	16102	BING_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
12/8/2024 18:44	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:44	14204	EALL_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
12/8/2024 18:44	41602	CLEV_T1	0	5	5	0	0.1	0.1	0	0	1	1	0	600	600	0
12/8/2024 18:44	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:44	51101	CARL_T1	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
12/8/2024 18:44	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:45	63306	GREE_T1	0	0	0	0	0	0	-2.18	-2.18	1	1	0	900	900	0
12/8/2024 18:45	47103	MARL_T2	0	2	2	0	0.1	0.1	-0.54	-0.5	0	0	0	0	0	0
12/8/2024 18:45	47102	MARL_T2	2	12	10	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/8/2024 18:45	63601	LETO_T1	0	0	0	0	0	0	0.33	0.44	1	1	0	900	900	0
12/8/2024 18:45	42902	MIDD_T2	0	0	0	0	0	0	-1.28	-1.31	1	1	0	600	600	0
12/8/2024 18:46	40101	HUNT_T2	400	377	-23	0.83	0.54	-0.29	-1.44	-1.43	0	0	0	0	0	0
12/8/2024 18:46	55001	NEWP_T1	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
12/8/2024 18:46	55002	NEWP_T1	2	3	1	0.2	0.33	0.13	-0.26	-0.27	0	0	0	0	0	0
12/8/2024 18:47	60301	TWVA_T2	0	1	1	0	0	0	-4.14	-3.99	4	4	0	3600	3600	0
12/8/2024 18:47	45701	LIND_T2	0	0	0	0	0	0	-1.76	-1.76	0	0	0	0	0	0
12/8/2024 18:47	27603	PIRI_T2	0	0	0	0	0	0	-1.68	-1.66	2	2	0	1800	1800	0
12/8/2024 18:47	60101	COCA_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
12/8/2024 18:47	64101	REFR_T1	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
12/8/2024 18:47	45702	LIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/8/2024 18:48	13604	RICH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:48	13704	SCHN_T2	0	0	0	0	0	0	-0.96	-0.95	0	0	0	0	0	0
12/8/2024 18:48	13601	RICH_T2	2	2	0	2.35	2.2	-0.15	0	0	0	0	0	0	0	0
12/8/2024 18:48	54506	ENOL_T2	0	0	0	0	0	0	0.47	0.34	1	0	-1	600	0	-600
12/8/2024 18:48	10801	CHHI_T1	0	0	0	0	0	0	-2.99	-3	4	4	0	3000	3000	0
12/8/2024 18:49	64101	REFR_T1	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
12/8/2024 18:50	40101	HUNT_T2	400	377	-23	0.83	0.54	-0.29	-1.44	-1.43	0	0	0	0	0	0
12/8/2024 18:50	14605	SWHI_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/8/2024 18:50	60201	ATGL_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
12/8/2024 18:50	14601	SWHI_T1	0	0	0	0	0	0	-0.82	-0.82	0	0	0	0	0	0
12/8/2024 18:50	60101	COCA_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
12/8/2024 18:50	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:50	44201	POIN_T1	95	151	56	0.21	0.29	0.08	-1.97	-2.03	1	1	0	1200	1200	0
12/8/2024 18:50	14802	TREI_T2	0	0	0	0	0	0	0.92	0.96	0	0	0	0	0	0
12/8/2024 18:50	10903	CDOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:50	45702	LIND_T2	0	1	1	0	0.2	0.2	-1.77	-1.8	0	0	0	0	0	0
12/8/2024 18:51	44905	SCOT_T1	18	25	7	0.42	0.1	-0.32	0	0	0	0	0	0	0	0
12/8/2024 18:51	63601	LETO_T1	0	0	0	0	0	0	0.44	0.39	1	1	0	900	900	0
12/8/2024 18:52	13302	ORVI_T2	11	12	1	0.19	0.26	0.07	1.52	1.54	0	0	0	0	0	0
12/8/2024 18:52	45501	DERR_T2	0	1	1	0	0	0	-0.75	-0.78	2	2	0	1800	1800	0
12/8/2024 18:52	42701	AUGU_T1	1	1	0	0.2	0.3	0.1	0	0	4	4	0	3600	3600	0
12/8/2024 18:52	46206	DANV_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/8/2024 18:52	55103	WERT_T1	1	1	0	2	6.1	4.1	0	0	0	0	0	0	0	0
12/8/2024 18:52	65502	MOJO_T2	0	0	0	0	0	0	-1.29	-1.2	0	0	0	0	0	0
12/8/2024 18:52	16101	BING_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
12/8/2024 18:52	41301	FISH_T1	3	1	-2	1.03	2.7	1.67	-0.42	-0.44	0	0	0	0	0	0
12/8/2024 18:52	40602	PIGR_T1	1	1	0	2.1	1.5	-0.6	0	0	0	0	0	0	0	0
12/8/2024 18:52	66504	SMAN_T2	0	0	0	0	0	0	-1.96	-1.91	1	1	0	1200	1200	0
12/8/2024 18:52	55101	WERT_T1	0	0	0	0	0	0	-1.2	-1.25	1	1	0	600	600	0
12/8/2024 18:52	40702	FFLD_T1	0	0	0	0	0	0	-1.3	-1.33	1	1	0	1200	1200	0
12/8/2024 18:52	46203	DANV_T2	0	0	0	0	0	0	-1.95	-1.95	0	0	0	0	0	0
12/8/2024 18:52	66505	SMAN_T2	3	3	0	0.23	0.37	0.14	0	0	0	0	0	0	0	0
12/8/2024 18:53	63501	HEID_TBK1-2	25	37	12	0.15	0.34	0.19	-1.17	-1.2	2	2	0	1800	1800	0
12/8/2024 18:53	42701	AUGU_T1	1	1	0	0.2	0.3	0.1	0	0	2	2	0	1800	1800	0
12/8/2024 18:53	57205	ROSS_T1	0	0	0	0	0	0	-0.96	-0.97	1	1	0	900	900	0
12/8/2024 18:53	14403	SSLA_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
12/8/2024 18:53	20603	GRWO_T2	3	3	0	0.1	0.1	0	-0.56	-0.57	1	1	0	900	900	0
12/8/2024 18:53	45501	DERR_T2	0	1	1	0	0	0	-0.75	-0.78	2	2	0	1800	1800	0
12/8/2024 18:53	62104	ELAN_T1	0	0	0	0	0	0	0.27	0.27	1	1	0	1200	1200	0
12/8/2024 18:53	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:53	60201	ATGL_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
12/8/2024 18:53	14401	SSLA_T1	0	3	3	0	0.67	0.67	0	0	0	0	0	0	0	0
12/8/2024 18:54	65401	MARI_T1	0	0	0	0	0	0	0.75	0.66	0	0	0	0	0	0
12/8/2024 18:54	42902	MIDD_T2	0	0	0	0	0	0	-1.31	-1.3	1	1	0	600	600	0
12/8/2024 18:54	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:54	41001	LAUR_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
12/8/2024 18:54	64402	LAND_T2	0	0	0	0	0	0	-0.44	-0.49	1	1	0	600	600	0
12/8/2024 18:54	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:54	43101	SMIL_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
12/8/2024 18:54	43102	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/8/2024 18:54	67605	WARW_T1	1	2	1	0.3	0.1	-0.2	-1.19	-1.19	0	0	0	0	0	0
12/8/2024 18:54	60101	COCA_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
12/8/2024 18:54	46203	DANV_T2	0	0	0	0	0	0	-1.95	-1.95	0	0	0	0	0	0
12/8/2024 18:54	66301	MCGO_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
12/8/2024 18:54	41002	LAUR_T2	1	4	3	0.5	0.38	-0.12	0	0	0	0	0	0	0	0
12/8/2024 18:54	66505	SMAN_T2	3	3	0	0.23	0.37	0.14	0	0	0	0	0	0	0	0
12/8/2024 18:54	63306	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:54	44801	EDAN_T2	1	1	0	1.3	1.1	-0.2	-0.48	-0.48	0	0	0	0	0	0
12/8/2024 18:54	43108	SMIL_T2	0	0	0	0	0	0	-1.17	-1.16	1	1	0	1200	1200	0
12/8/2024 18:54	66303	MCGO_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/8/2024 18:54	46206	DANV_T2	1	0	-1	0.6	0	-0.6	1.29	1.32	2	2	0	2100	2100	0
12/8/2024 18:54	65503	MOJO_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
12/8/2024 18:55	60801	BUCK_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
12/8/2024 18:55	45702	LIND_T2	0	1	1	0	0.2	0.2	-1.8	-1.79	0	0	0	0	0	0
12/8/2024 18:55	42902	MIDD_T2	0	0	0	0	0	0	-1.31	-1.3	1	1	0	600	600	0
12/8/2024 18:55	55001	NEWP_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
12/8/2024 18:55	44201	POIN_T1	95	151	56	0.21	0.29	0.08	-4.06	-4.17	2	2	0	2400	2400	0
12/8/2024 18:55	44301	BEAV_T2	1	1	0	0.7	0.9	0.2	-1.62	-1.64	1	1	0	600	600	0
12/8/2024 18:55	64305	LINC_T1	0	0	0	0	0	0	-0.69	-0.78	0	0	0	0	0	0
12/8/2024 18:55	63501	HEID_TBK1-2	25	37	12	0.15	0.34	0.19	-1.17	-1.2	2	2	0	1800	1800	0
12/8/2024 18:55	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:55	61304	EARL_T1	0	0	0	0	0	0	-0.99	-1.01	1	1	0	600	600	0
12/8/2024 18:55	46801	HEPB_T2	0	2	2	0	0.25	0.25	0.58	0.55	0	0	0	0	0	0
12/8/2024 18:55	60803	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:55	65503	MOJO_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
12/8/2024 18:55	55002	NEWP_T1	2	3	1	0.2	0.33	0.13	-0.27	-0.25	0	0	0	0	0	0
12/8/2024 18:55	44801	EDAN_T2	1	1	0	1.3	1.1	-0.2	-0.48	-0.48	0	0	0	0	0	0
12/8/2024 18:55	66303	MCGO_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/8/2024 18:55	52502	PROG_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
12/8/2024 18:55	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.16	0	0	0	0	0	0
12/8/2024 18:55	66302	MCGO_T2	0	0	0	0	0	0	-3.3	-3.32	2	2	0	1200	1200	0
12/8/2024 18:55	66202	SISP_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
12/8/2024 18:55	41602	CLEV_T1	5	1	-4	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/8/2024 18:55	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:55	60201	ATGL_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
12/8/2024 18:56	40101	HUNT_T2	400	377	-23	0.83	0.54	-0.29	-1.43	-1.41	0	0	0	0	0	0
12/8/2024 18:56	51102	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:56	64203	KINZ_T1	0	0	0	0	0	0	-0.11	-0.53	0	1	1	0	600	600
12/8/2024 18:56	46203	DANV_T2	0	0	0	0	0	0	-1.95	-1.95	0	0	0	0	0	0
12/8/2024 18:56	41301	FISH_T1	3	1	-2	1.03	2.7	1.67	-0.42	-0.44	0	0	0	0	0	0
12/8/2024 18:56	55401	SHER_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:56	51104	CARL_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/8/2024 18:56	43102	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/8/2024 18:56	40901	JESH_T1	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
12/8/2024 18:56	41902	REED_T1	0	0	0	0	0	0	-0.05	-0.03	1	1	0	900	900	0
12/8/2024 18:56	51101	CARL_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
12/8/2024 18:56	64204	KINZ_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
12/8/2024 18:56	62106	ELAN_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/8/2024 18:56	64201	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
12/8/2024 18:56	55101	WERT_T1	0	0	0	0	0	0	-1.2	-1.25	1	1	0	600	600	0
12/8/2024 18:56	42902	MIDD_T2	0	0	0	0	0	0	-1.31	-1.3	1	1	0	600	600	0
12/8/2024 18:56	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:56	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/8/2024 18:56	55103	WERT_T1	1	1	0	2	6.1	4.1	0	0	0	0	0	0	0	0
12/8/2024 18:56	55405	SHER_T1	1	5	4	0.1	0.22	0.12	0	0	0	0	0	0	0	0
12/8/2024 18:56	40701	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:56	41602	CLEV_T1	5	1	-4	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/8/2024 18:56	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:56	46206	DANV_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/8/2024 18:56	40902	JESH_T1	0	0	0	0	0	0	-1.37	-1.37	1	1	0	600	600	0
12/8/2024 18:56	64101	REFR_T1	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
12/8/2024 18:56	44201	POIN_T1	95	151	56	0.21	0.29	0.08	-2.03	-2.09	1	1	0	1200	1200	0
12/8/2024 18:56	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:56	43101	SMIL_T2	0	1	1	0	0.8	0.8	-0.72	-0.73	0	0	0	0	0	0
12/8/2024 18:56	63806	GREE_T1	0	0	0	0	0	0	-2.18	-2.23	1	1	0	900	900	0
12/8/2024 18:57	43101	SMIL_T2	0	1	1	0	0.8	0.8	-0.72	-0.73	0	0	0	0	0	0
12/8/2024 18:57	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:57	55101	WERT_T1	0	0	0	0	0	0	-1.2	-1.25	1	1	0	600	600	0
12/8/2024 18:57	64101	REFR_T1	0	0	0	0	0	0	0.54	0.39	0	0	0	0	0	0
12/8/2024 18:57	46506	LOHA_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
12/8/2024 18:57	52402	GRPA_T2	0	1	1	0	0	0	-0.82	-0.83	0	0	0	0	0	0
12/8/2024 18:57	46501	LOHA_T1	2	7	5	0.4	0.6	0.2	0	0	0	0	0	0	0	0
12/8/2024 18:57	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:57	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
12/8/2024 18:57	55103	WERT_T1	1	1	0	2	6.1	4.1	0	0	0	0	0	0	0	0
12/8/2024 18:57	46801	HEPB_T2	0	2	2	0	0.25	0.25	0.58	0.55	0	0	0	0	0	0
12/8/2024 18:57	67605	WARW_T1	1	2	1	0.3	0.1	-0.2	-1.19	-1.19	0	0	0	0	0	0
12/8/2024 18:57	41602	CLEV_T1	5	1	-4	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/8/2024 18:57	43102	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/8/2024 18:58	63501	HEID_TBK1-2	25	37	12	0.15	0.34	0.19	-0.58	-0.6	1	1	0	900	900	0
12/8/2024 18:58	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:58	65502	MOJO_T2	0	0	0	0	0	0	-2.57	-2.4	0	0	0	0	0	0
12/8/2024 18:58	42902	MIDD_T2	0	0	0	0	0	0	-1.31	-1.3	1	1	0	600	600	0
12/8/2024 18:58	63305	GREE_T1	0	0	0	0	0	0	-3.24	-3.2	0	0	0	0	0	0
12/8/2024 18:58	40101	HUNT_T2	400	377	-23	0.83	0.54	-0.29	0	0	0	0	0	0	0	0
12/8/2024 18:58	65401	MARI_T1	0	0	0	0	0	0	0.37	0.33	0	0	0	0	0	0
12/8/2024 18:58	44905	SCOT_T1	18	25	7	0.42	0.1	-0.32	0	0	0	0	0	0	0	0
12/8/2024 18:58	55103	WERT_T1	1	1	0	2	6.1	4.1	0	0	0	0	0	0	0	0
12/8/2024 18:58	64101	REFR_T1	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
12/8/2024 18:58	54504	ENOL_T2	0	0	0	0	0	0	-1.05	-1.06	1	1	0	600	600	0
12/8/2024 18:58	60502	NMAN_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
12/8/2024 18:58	55101	WERT_T1	0	0	0	0	0	0	-1.2	-1.25	1	1	0	600	600	0
12/8/2024 18:58	55105	WERT_T1	0	0	0	0	0	0	-0.63	-0.61	1	1	0	900	900	0
12/8/2024 18:58	44201	POIN_T1	95	151	56	0.21	0.29	0.08	-2.03	-2.09	1	1	0	1200	1200	0
12/8/2024 18:59	55101	WERT_T1	0	0	0	0	0	0	-1.2	-1.25	1	1	0	600	600	0
12/8/2024 18:59	65803	RTWN_T2	12	7	-5	0.29	0.2	-0.09	0	0	0	0	0	0	0	0
12/8/2024 18:59	66303	MCGO_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/8/2024 18:59	52502	PROG_T2	0	0	0	0	0	0	0.71	0.73	0	0	0	0	0	0
12/8/2024 18:59	63302	GREE_T1	0	0	0	0	0	0	0.09	0.17	0	0	0	0	0	0
12/8/2024 18:59	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 18:59	65402	MARI_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
12/8/2024 18:59	65401	MARI_T1	0	0	0	0	0	0	0.37	0.33	0	0	0	0	0	0
12/8/2024 18:59	63804	HEMP_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
12/8/2024 18:59	52001	LING_T1	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
12/8/2024 18:59	55002	NEWP_T1	2	3	1	0.2	0.33	0.13	-0.54	-0.5	0	0	0	0	0	0
12/8/2024 18:59	66302	MCGO_T2	0	0	0	0	0	0	-1.65	-1.66	1	1	0	600	600	0
12/8/2024 18:59	42902	MIDD_T2	0	0	0	0	0	0	-1.31	-1.3	1	1	0	600	600	0
12/8/2024 18:59	63801	HEMP_T1	0	0	0	0	0	0	-0.16	-0.4	0	0	0	0	0	0
12/8/2024 18:59	65802	RTWN_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
12/8/2024 18:59	53903	HALI_T2	2	2	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
12/8/2024 18:59	60101	COCA_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
12/8/2024 18:59	55103	WERT_T1	1	1	0	2	6.1	4.1	0	0	0	0	0	0	0	0
12/8/2024 18:59	66301	MCGO_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
12/8/2024 18:59	53901	HALI_T2	1	0	-1	0.2	0	-0.2	-1.41	-1.42	0	0	0	0	0	0
12/8/2024 18:59	53902	HALI_T2	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
12/8/2024 19:00	46302	ROHR_T1	0	3	3	0	0.83	0.83	-1.06	-1.06	0	0	0	0	0	0
12/8/2024 19:00	53101	WTWN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 19:00	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 19:00	52402	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/8/2024 19:00	55101	WERT_T1	0	0	0	0	0	0	-1.2	-1.25	1	1	0	600	600	0
12/8/2024 19:00	55001	NEWP_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
12/8/2024 19:00	55002	NEWP_T1	2	4	2	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
12/8/2024 19:00	46301	ROHR_T1	0	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0
12/8/2024 19:00	52403	GRPA_T2	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
12/8/2024 19:00	66502	SMAN_T2	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
12/8/2024 19:00	55103	WERT_T1	1	1	0	6.4	3.8	-2.6	0	0	0	0	0	0	0	0
12/8/2024 19:00	66505	SMAN_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
12/8/2024 19:00	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 19:00	64101	REFR_T1	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
12/8/2024 19:01	46203	DANV_T2	0	0	0	0	0	0	-1.95	-1.95	0	0	0	0	0	0
12/8/2024 19:01	52502	PROG_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
12/8/2024 19:01	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2024 19:02	44301	BEAV_T2	1	2	1	0.9	1.5	0.6	0	0	0	0	0	0	0	0
12/8/2024 19:03	53903	HALI_T2	2	1	-1	0.55	0.3	-0.25	-0.11	-0.11	0	0	0	0	0	0
12/8/2024 19:03	52402	GRPA_T2	1	0	-1	0.4	0	-0.4	-0.82	-0.83	0	0	0	0	0	0
12/8/2024 19:03	53902	HALI_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
12/8/2024 19:09	28102	TWLA_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
12/8/2024 19:12	46004	BERW_T2	3	2	-1	0.33	0	-0.33	-0.8	-0.8	0	0	0	0	0	0
12/8/2024 19:14	44801	EDAN_T2	1	1	0	1.5	1.1	-0.4	-0.48	-0.47	0	0	0	0	0	0
12/8/2024 19:26	62104	ELAN_T1	0	0	0	0	0	0	0.29	0.26	1	1	0	1200	1200	0
12/8/2024 19:52	14601	SWHI_T1	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
12/8/2024 20:02	46803	HEPB_T2	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
12/8/2024 20:02	46801	HEPB_T2	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
12/8/2024 20:14	64101	REFR_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
12/8/2024 20:40	13704	SCHN_T2	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
12/8/2024 23:06	55002	NEWP_T1	6	6	0	0.73	0.77	0.04	-0.26	-0.27	0	0	0	0	0	0
12/8/2024 23:13	52401	GRPA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
12/8/2024 23:13	52402	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/8/2024 23:13	52403	GRPA_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
12/8/2024 23:44	13302	ORVI_T2	5	11	6	0.12	0.19	0.07	1.34	1.49	0	0	0	0	0	0
12/9/2024 8:55	10109	ALLE_T3	5	0	-5	0.56	0	-0.56	0	0	0	0	0	0	0	0
12/9/2024 8:55	10101	ALLE_T3	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
12/9/2024 8:55	10105	ALLE_T3	10	10	0	0.76	0.36	-0.4	0	0	0	0	0	0	0	0
12/9/2024 8:57	10903	COOP_T2	0	0	0	0	0	0	-0.16	-0.01	1	1	0	600	600	0
12/9/2024 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
12/9/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
12/9/2024 9:07	67503	WEWI_T2	1	1	0	8.4	8.4	0	0.02	0	0	0	0	0	0	0
12/9/2024 9:11	10801	CHHI_T1	0	0	0	0	0	0	-1.12	-1.11	2	2	0	1500	1500	0
12/9/2024 9:21	14601	SWHI_T1	0	0	0	0	0	0	-0.82	-0.78	0	0	0	0	0	0
12/9/2024 9:25	10105	ALLE_T3	10	10	0	0.77	0.99	0.22	0	0	0	0	0	0	0	0
12/9/2024 9:25	10103	ALLE_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/9/2024 9:25	10101	ALLE_T3	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
12/9/2024 9:25	10109	ALLE_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/9/2024 9:27	10103	ALLE_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/9/2024 9:27	10105	ALLE_T3	10	10	0	0.77	0.99	0.22	0	0	0	0	0	0	0	0
12/9/2024 9:27	10101	ALLE_T3	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
12/9/2024 9:27	10109	ALLE_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/9/2024 9:37	13704	SCHN_T2	0	0	0	0	0	0	-0.91	-0.9	0	0	0	0	0	0
12/9/2024 9:41	45501	DERR_T2	1	0	-1	0.4	0	-0.4	0.7	0.79	2	2	0	1800	1800	0
12/9/2024 9:42	40802	EXCH_T2	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
12/9/2024 9:45	40802	EXCH_T2	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
12/9/2024 9:49	13701	SCHN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/9/2024 9:53	13701	SCHN_T2	0	0	0	0	0	0	0.03	0.02	1	1	0	600	600	0
12/9/2024 10:04	52502	PROG_T2	0	0	0	0	0	0	0.38	0.44	0	0	0	0	0	0
12/9/2024 10:09	67402	WAKE_T2	0	1	1	0	0.2	0.2	0.4	0.36	1	1	0	600	600	0
12/9/2024 10:16	63601	LETO_T1	4	4	0	0.95	1.08	0.13	0.88	1.26	0	0	0	0	0	0
12/9/2024 10:17	63601	LETO_T1	4	4	0	0.95	1.08	0.13	0.88	1.26	0	0	0	0	0	0
12/9/2024 10:19	64101	REFR_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
12/9/2024 10:22	42501	ALTA_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	600	600	0
12/9/2024 10:27	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
12/9/2024 10:27	54502	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
12/9/2024 10:27	54504	ENOL_T2	0	0	0	0	0	0	-1.05	-1.03	1	1	0	600	600	0
12/9/2024 10:29	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
12/9/2024 10:29	54502	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
12/9/2024 10:29	54503	ENOL_T2	0	0	0	0	0	0	-0.39	-0.4	1	1	0	600	600	0
12/9/2024 10:43	24105	EHAZ_T1	4	4	0	6.9	6.43	-0.47	0	0	0	0	0	0	0	0
12/9/2024 10:43	45802	HEGI_T2	15	17	2	0.48	0.57	0.09	0	0	0	0	0	0	0	0
12/9/2024 10:43	24101	EHAZ_T1	60	57	-3	0.85	0.56	-0.29	0	0	0	0	0	0	0	0
12/9/2024 10:43	24102	EHAZ_T1	5	3	-2	0.46	0	-0.46	0.24	0.26	0	0	0	0	0	0
12/9/2024 10:43	40101	HUNT_T2	0	0	0	0	0	0	-1.57	-1.59	0	0	0	0	0	0
12/9/2024 10:45	45802	HEGI_T2	12	17	5	0.58	0.4	-0.18	0.71	0.89	1	1	0	900	900	0
12/9/2024 10:55	14204	EALL_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
12/9/2024 10:56	60803	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/9/2024 11:01	14204	EALL_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
12/9/2024 11:23	41902	REED_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
12/9/2024 11:23	41901	REED_T1	5	6	1	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
12/9/2024 12:02	44502	HAMI_T2	1	1	0	2.8	3.2	0.4	0	0	0	0	0	0	0	0
12/9/2024 12:02	44505	HAMI_T2	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
12/9/2024 12:37	41901	REED_T1	6	3	-3	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
12/9/2024 12:37	41903	REED_T1	0	0	0	0	0	0	-0.26	-0.26	1	1	0	1200	1200	0
12/9/2024 12:47	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.03	0	0	0	0	0	0
12/9/2024 12:51	65603	QVIL_T2	0	0	0	0	0	0	0.33	0.57	0	0	0	0	0	0
12/9/2024 12:52	65603	QVIL_T2	0	0	0	0	0	0	0.33	0.57	0	0	0	0	0	0
12/9/2024 12:52	52501	PROG_T1	40	4	-36	0.11	0.13	0.02	-0.8	-0.82	1	1	0	300	300	0
12/9/2024 13:05	57205	ROSS_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/9/2024 13:10	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/9/2024 13:22	54601	SUMM_T2	5	9	4	0.26	0.48	0.22	0	0	2	2	0	2100	2100	0
12/9/2024 13:50	67002	STHI_T2	0	0	0	0	0	0	1.2	1.13	0	0	0	0	0	0
12/9/2024 13:50	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/9/2024 13:51	67002	STHI_T2	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
12/9/2024 13:51	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0.08	0.09	0	0	0	0	0	0
12/9/2024 13:52	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/9/2024 13:52	67002	STHI_T2	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
12/9/2024 13:53	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/9/2024 13:53	67002	STHI_T2	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
12/9/2024 13:54	67001	STHI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/9/2024 13:54	67002	STHI_T2	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
12/9/2024 14:02	64301	LINC_T1	0	0	0	0	0	0	0.16	0.03	0	0	0	0	0	0
12/9/2024 14:03	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
12/9/2024 14:03	64202	KINZ_T1	3	3	0	0.4	0.73	0.33	0.74	0.72	0	0	0	0	0	0
12/9/2024 14:03	57303	MOAL_T2	1	1	0	7.4	7	-0.4	0	0	0	0	0	0	0	0
12/9/2024 14:03	57304	MOAL_T2	0	0	0	0	0	0	-0.02	-0.12	0	0	0	0	0	0
12/9/2024 14:21	67402	WAKE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/9/2024 14:21	67401	WAKE_T2	0	0	0	0	0	0	-0.88	-0.91	0	0	0	0	0	0
12/9/2024 14:24	55101	WERT_T1	0	0	0	0	0	0	-1.39	-1.35	1	1	0	600	600	0
12/9/2024 14:24	60803	BUCK_T1	4	13	9	0.13	0.17	0.04	-0.55	-0.54	1	1	0	600	600	0
12/9/2024 14:27	60803	BUCK_T1	4	13	9	0.13	0.17	0.04	-0.55	-0.54	1	1	0	600	600	0
12/9/2024 14:30	52402	GRPA_T2	4	9	5	0.25	0.48	0.23	0	0	0	0	0	0	0	0
12/9/2024 14:30	52401	GRPA_T2	1	2	1	0.4	0.3	-0.1	-0.54	-0.57	0	0	0	0	0	0
12/9/2024 14:31	53502	EVIL_T2	0	0	0	0	0	0	0.69	0.58	1	1	0	600	600	0
12/9/2024 14:31	53501	EVIL_T2	2	2	0	0.2	0.75	0.55	0	0	0	0	0	0	0	0
12/9/2024 14:46	61506	EPET_T2	0	0	0	0	0	0	-0.75	-0.91	1	1	0	900	900	0
12/9/2024 15:01	64704	LITI_T1	0	0	0	0	0	0	-0.01	0	1	1	0	600	600	0
12/9/2024 15:02	54505	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
12/9/2024 15:02	54503	ENOL_T2	0	0	0	0	0	0	-0.41	-0.42	1	1	0	600	600	0
12/9/2024 15:02	54502	ENOL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
12/9/2024 15:04	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/9/2024 15:04	60602	NCOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/9/2024 15:05	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/9/2024 15:09	60404	DILL_T2	1	1	0	6.9	5.7	-1.2	-0.34	-0.02	1	1	0	1200	1200	0
12/9/2024 15:10	60404	DILL_T2	1	1	0	6.9	5.7	-1.2	-0.34	-0.02	1	1	0	1200	1200	0
12/9/2024 15:11	60201	ATGL_T2	0	0	0	0	0	0	0	0.26	0	0	0	0	0	0
12/9/2024 15:13	60404	DILL_T2	1	1	0	6.9	5.7	-1.2	-0.34	-0.02	1	1	0	1200	1200	0
12/9/2024 15:14	60404	DILL_T2	1	1	0	6.9	5.7	-1.2	-0.34	-0.02	1	1	0	1200	1200	0
12/9/2024 15:15	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
12/9/2024 15:15	54505	ENOL_T2	1	1	0	1	1	0	-1.29	-1.27	1	1	0	600	600	0
12/9/2024 15:23	67401	WAKE_T2	4	9	5	0.1	0.12	0.02	-0.9	-0.92	0	0	0	0	0	0
12/9/2024 15:23	67402	WAKE_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/9/2024 15:24	67401	WAKE_T2	4	9	5	0.1	0.12	0.02	0	0	0	0	0	0	0	0
12/9/2024 15:24	67402	WAKE_T2	1	1	0	0.3	0.2	-0.1	0.22	0.21	0	0	0	0	0	0
12/9/2024 15:38	64701	LITI_T1	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
12/9/2024 15:42	61503	EPET_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
12/9/2024 15:43	52502	PROG_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
12/9/2024 15:43	61503	EPET_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
12/9/2024 15:55	60803	BUCK_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/9/2024 15:55	60801	BUCK_T1	0	0	0	0	0	0	0.13	0.03	0	0	0	0	0	0
12/9/2024 15:58	21501	CEAV_T2	0	0	0	0	0	0	1.1	1.07	0	0	0	0	0	0
12/9/2024 17:42	60404	DILL_T2	1	1	0	4.6	6.1	1.5	-0.44	-0.36	1	1	0	1200	1200	0
12/9/2024 18:20	42501	ALTA_T2	8	1	-7	0.1	0	-0.1	0	0.02	1	1	0	600	600	0
12/9/2024 18:20	42503	ALTA_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/9/2024 18:20	42504	ALTA_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
12/9/2024 18:21	40802	EXCH_T2	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
12/9/2024 18:21	40801	EXCH_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/9/2024 18:27	60404	DILL_T2	1	2	1	5.5	9.2	3.7	-0.34	-0.48	1	1	0	1200	1200	0
12/9/2024 18:29	67001	STHI_T2	347	363	16	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
12/9/2024 18:29	44502	HAMI_T2	1	1	0	3.1	2.9	-0.2	0	0	0	0	0	0	0	0
12/9/2024 18:29	67002	STHI_T2	66	83	17	0.2	0.2	0	0.57	0.6	0	0	0	0	0	0
12/9/2024 18:29	44505	HAMI_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
12/9/2024 18:30	40802	EXCH_T2	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
12/9/2024 18:30	40801	EXCH_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
12/9/2024 18:30	61503	EPET_T1	0	0	0	0	0	0	-0.47	-0.35	0	0	0	0	0	0
12/9/2024 18:31	61506	EPET_T2	0	0	0	0	0	0	-1.02	-1.08	1	1	0	900	900	0
12/9/2024 18:31	64701	LITI_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
12/9/2024 18:31	57205	ROSS_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
12/9/2024 18:32	52501	PROG_T1	0	2	2	0	0.1	0.1	-0.54	-0.53	0	0	0	0	0	0
12/9/2024 18:32	40101	HUNT_T2	80	16	-64	0.41	0.1	-0.31	-1.12	-1.12	0	0	0	0	0	0
12/9/2024 18:33	45502	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/9/2024 18:33	45501	DERR_T2	0	0	0	0	0	0	0.27	0.39	2	2	0	1800	1800	0
12/9/2024 18:34	60404	DILL_T2	1	0	-1	7.6	0	-7.6	-0.34	-0.48	1	1	0	1200	1200	0
12/9/2024 18:34	63601	LETO_T1	0	1	1	0	0.1	0.1	0.44	0.4	1	1	0	900	900	0
12/9/2024 18:34	67001	STHI_T2	321	396	75	0.2	0.24	0.04	0	0	0	0	0	0	0	0
12/9/2024 18:34	67002	STHI_T2	74	84	10	0.19	0.2	0.01	0.57	0.6	0	0	0	0	0	0
12/9/2024 18:35	13701	SCHN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/9/2024 18:36	60803	BUCK_T1	7	6	-1	0.14	0.12	-0.02	-0.54	-0.53	1	1	0	600	600	0
12/9/2024 18:36	64704	LITI_T1	0	0	0	0	0	0	-0.02	-0.04	1	1	0	600	600	0
12/9/2024 18:36	42701	AUGU_T1	1	1	0	0.2	0.2	0	0	0	2	2	0	1800	1800	0
12/9/2024 18:36	67001	STHI_T2	321	396	75	0.2	0.24	0.04	0	0	0	0	0	0	0	0
12/9/2024 18:36	63601	LETO_T1	0	1	1	0	0.1	0.1	0.4	0.4	1	1	0	900	900	0
12/9/2024 18:36	67002	STHI_T2	74	84	10	0.19	0.2	0.01	0.6	0.63	0	0	0	0	0	0
12/9/2024 18:36	60801	BUCK_T1	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
12/9/2024 18:36	45802	HEGI_T2	39	45	6	0.64	1.11	0.47	0	0.07	1	1	0	900	900	0
12/9/2024 18:36	60201	ATGL_T2	0	0	0	0	0	0	-0.19	-0.14	0	0	0	0	0	0
12/9/2024 18:37	54601	SUMM_T2	0	1	1	0	0.1	0.1	0	0	2	2	0	2100	2100	0
12/9/2024 18:37	67001	STHI_T2	321	396	75	0.2	0.24	0.04	0	0	0	0	0	0	0	0
12/9/2024 18:37	10801	CHHI_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	900	900	0
12/9/2024 18:37	52402	GRPA_T2	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/9/2024 18:37	67002	STHI_T2	74	84	10	0.19	0.2	0.01	0.6	0.63	0	0	0	0	0	0
12/9/2024 18:37	52401	GRPA_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
12/9/2024 18:38	67001	STHI_T2	321	396	75	0.2	0.24	0.04	0	0	0	0	0	0	0	0
12/9/2024 18:38	60801	BUCK_T1	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
12/9/2024 18:38	24105	EHAZ_T1	4	4	0	6.18	6.08	-0.1	0	0	0	0	0	0	0	0
12/9/2024 18:38	24101	EHAZ_T1	34	37	3	1.3	1.74	0.44	0	0	0	0	0	0	0	0
12/9/2024 18:38	67002	STHI_T2	74	84	10	0.19	0.2	0.01	0.6	0.63	0	0	0	0	0	0
12/9/2024 18:38	64101	REFR_T1	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
12/9/2024 18:38	60803	BUCK_T1	7	6	-1	0.14	0.12	-0.02	0	0	0	0	0	0	0	0
12/9/2024 18:38	24102	EHAZ_T1	3	5	2	0.43	0	-0.43	-0.29	-0.22	0	0	0	0	0	0
12/9/2024 18:39	67002	STHI_T2	74	84	10	0.19	0.2	0.01	0.6	0.63	0	0	0	0	0	0
12/9/2024 18:39	14204	EALL_T2	0	0	0	0	0	0	0.19	0.15	0	0	0	0	0	0
12/9/2024 18:39	17401	FOHI_T1	0	0	0	0	0	0	-1.06	-1.03	0	0	0	0	0	0
12/9/2024 18:39	67001	STHI_T2	321	396	75	0.2	0.24	0.04	0.09	0.08	0	0	0	0	0	0
12/9/2024 18:39	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/9/2024 18:39	65603	QVIL_T2	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
12/9/2024 18:40	21501	CEAV_T2	0	0	0	0	0	0	1.03	1.05	0	0	0	0	0	0
12/9/2024 18:40	61503	EPET_T1	0	0	0	0	0	0	-0.35	-0.44	0	0	0	0	0	0
12/9/2024 18:40	64301	LINC_T1	0	0	0	0	0	0	-0.33	-0.44	0	0	0	0	0	0
12/9/2024 18:41	64201	KINZ_T1	4	5	1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
12/9/2024 18:41	64202	KINZ_T1	0	2	2	0	0.25	0.25	0.74	0.7	0	0	0	0	0	0
12/9/2024 18:41	64204	KINZ_T1	1	2	1	1	0.5	-0.5	0	0	0	0	0	0	0	0
12/9/2024 18:42	67401	WAKE_T2	0	0	0	0	0	0	-0.97	-0.99	0	0	0	0	0	0
12/9/2024 18:42	55101	WERT_T1	0	0	0	0	0	0	-1.06	-1.06	1	1	0	600	600	0
12/9/2024 18:43	10109	ALLE_T3	0	5	5	0	0.56	0.56	0	0	0	0	0	0	0	0
12/9/2024 18:43	10101	ALLE_T3	17	7	-10	1.1	2.37	1.27	0	0	0	0	0	0	0	0
12/9/2024 18:43	67401	WAKE_T2	0	0	0	0	0	0	-0.97	-0.99	0	0	0	0	0	0
12/9/2024 18:43	10105	ALLE_T3	42	46	4	1.46	1.4	-0.06	0	0	0	0	0	0	0	0
12/9/2024 18:43	65603	QVIL_T2	0	0	0	0	0	0	0.04	0.01	0	0	0	0	0	0
12/9/2024 18:43	10205	ALLE_T3	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
12/9/2024 18:43	13704	SCHN_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
12/9/2024 18:43	10103	ALLE_T3	3	3	0	0.47	0	-0.47	0	0	0	0	0	0	0	0
12/9/2024 18:44	60803	BUCK_T1	7	6	-1	0.14	0.12	-0.02	-0.54	-0.53	1	1	0	600	600	0
12/9/2024 18:44	60801	BUCK_T1	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
12/9/2024 18:45	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
12/9/2024 18:45	14601	SWHI_T1	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
12/9/2024 18:46	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/9/2024 18:49	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
12/9/2024 21:12	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	-1.3	-1.31	1	1	0	600	600	0
12/9/2024 21:12	54502	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
12/10/2024 8:32	40101	HUNT_T2	2	8	6	0.15	0.15	0	-0.83	-0.85	0	0	0	0	0	0
12/10/2024 9:00	67503	WEWI_T2	1	1	0	8.3	8.7	0.4	0	0	0	0	0	0	0	0
12/10/2024 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
12/10/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
12/10/2024 9:11	67402	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/10/2024 9:11	67401	WAKE_T2	0	0	0	0	0	0	-0.9	-0.87	0	0	0	0	0	0
12/10/2024 9:17	21901	HUMB_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/10/2024 9:44	53501	EVIL_T2	1	2	1	0.3	0.4	0.1	-0.57	-0.52	1	1	0	600	600	0
12/10/2024 9:44	53502	EVIL_T2	1	3	2	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
12/10/2024 9:47	42902	MIDD_T2	0	0	0	0	0	0	-0.88	-0.68	1	1	0	600	600	0
12/10/2024 9:47	42903	MIDD_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/10/2024 9:48	42902	MIDD_T2	0	0	0	0	0	0	-0.88	-0.68	1	1	0	600	600	0
12/10/2024 9:48	42903	MIDD_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/10/2024 9:51	65601	QVIL_T2	0	0	0	0	0	0	-1.2	-1.18	1	1	0	900	900	0
12/10/2024 9:51	41902	REED_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
12/10/2024 9:51	41901	REED_T1	1	5	4	0.2	0.2	0	0	0	0	0	0	0	0	0
12/10/2024 9:52	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 9:56	47403	PENS_T1	1	1	0	0.7	1.6	0.9	0	0	0	0	0	0	0	0
12/10/2024 9:56	55101	WERT_T1	0	0	0	0	0	0	-1.27	-1.23	1	1	0	600	600	0
12/10/2024 9:56	47401	PENS_T1	0	7	7	0	0.14	0.14	-1.06	-1.09	0	0	0	0	0	0
12/10/2024 10:09	54601	SUMM_T2	6	6	0	0.35	0.37	0.02	0	0	0	0	0	0	0	0
12/10/2024 10:09	54603	SUMM_T2	0	0	0	0	0	0	-0.48	-0.48	1	1	0	900	900	0
12/10/2024 10:11	54603	SUMM_T2	0	0	0	0	0	0	-0.48	-0.48	1	1	0	900	900	0
12/10/2024 10:11	54601	SUMM_T2	6	6	0	0.35	0.37	0.02	0	0	0	0	0	0	0	0
12/10/2024 10:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 10:17	63802	HEMP_T1	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
12/10/2024 10:17	63804	HEMP_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
12/10/2024 10:22	65603	QVIL_T2	0	0	0	0	0	0	0.28	0.49	0	0	0	0	0	0
12/10/2024 10:30	63804	HEMP_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
12/10/2024 10:30	63803	HEMP_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
12/10/2024 10:34	46001	BERW_T1	0	0	0	0	0	0	0.91	0.95	0	0	0	0	0	0
12/10/2024 10:35	54206	PENN_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/10/2024 10:36	65603	QVIL_T2	0	0	0	0	0	0	0.49	0.43	0	0	0	0	0	0
12/10/2024 10:38	43801	SWIL_T1	1	1	0	5	4.8	-0.2	0	0	0	0	0	0	0	0
12/10/2024 10:38	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 10:46	20603	GRWO_T2	8	0	-8	0.25	0	-0.25	0.34	0.31	0	0	0	0	0	0
12/10/2024 10:46	20601	GRWO_T2	1	2	1	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
12/10/2024 10:49	64802	MONE_T2	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
12/10/2024 10:49	40101	HUNT_T2	7	6	-1	0.33	0.5	0.17	-0.76	-0.77	0	0	0	0	0	0
12/10/2024 10:49	64801	MONE_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
12/10/2024 10:50	54203	PENN_T1	18	18	0	0.94	1.01	0.07	-0.01	0.05	0	0	0	0	0	0
12/10/2024 10:50	54201	PENN_T1	7	9	2	0.76	0.62	-0.14	0	0	0	0	0	0	0	0
12/10/2024 10:54	43801	SWIL_T1	1	1	0	4.8	4.9	0.1	0	0	0	0	0	0	0	0
12/10/2024 10:54	44301	BEAV_T2	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
12/10/2024 10:54	43802	SWIL_T1	0	0	0	0	0	0	-0.25	-0.21	1	1	0	600	600	0
12/10/2024 10:56	45501	DERR_T2	0	1	1	0	0	0	0.62	0.73	2	2	0	1800	1800	0
12/10/2024 10:56	45502	DERR_T2	1	2	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
12/10/2024 10:57	45502	DERR_T2	1	2	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
12/10/2024 10:57	45501	DERR_T2	0	1	1	0	0	0	0.62	0.73	2	2	0	1800	1800	0
12/10/2024 11:01	45701	LIND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 11:01	45702	LIND_T2	0	1	1	0	1.4	1.4	-1.84	-1.85	0	0	0	0	0	0
12/10/2024 11:02	46602	LACR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 11:04	45701	LIND_T2	0	1	1	0	0	0	-0.3	-0.29	0	0	0	0	0	0
12/10/2024 11:04	45702	LIND_T2	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
12/10/2024 11:06	55001	NEWP_T1	0	0	0	0	0	0	-0.32	-0.3	0	0	0	0	0	0
12/10/2024 11:06	55002	NEWP_T1	3	5	2	0.47	0.58	0.11	0	0	0	0	0	0	0	0
12/10/2024 11:07	55001	NEWP_T1	0	0	0	0	0	0	-0.3	-0.34	0	0	0	0	0	0
12/10/2024 11:07	55002	NEWP_T1	3	5	2	0.47	0.58	0.11	0	0	0	0	0	0	0	0
12/10/2024 11:13	60803	BUCK_T1	2	11	9	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/10/2024 11:13	60801	BUCK_T1	0	0	0	0	0	0	0.2	0.13	0	0	0	0	0	0
12/10/2024 11:14	21901	HUMB_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
12/10/2024 11:15	63804	HEMP_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
12/10/2024 11:15	63803	HEMP_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
12/10/2024 11:18	63501	HEID_TBK1-2	1	2	1	0.3	0.55	0.25	-0.05	-0.07	1	1	0	900	900	0
12/10/2024 11:24	67401	WAKE_T2	1	2	1	0.1	0.1	0	-1.14	-1.16	0	0	0	0	0	0
12/10/2024 11:24	67402	WAKE_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/10/2024 11:25	10206	ALLE_T2	1	1	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
12/10/2024 11:25	10102	ALLE_T2	8	3	-5	1.13	6.6	5.47	0	0	0	0	0	0	0	0
12/10/2024 11:25	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 11:26	40802	EXCH_T2	1	1	0	0.2	0.4	0.2	-0.07	-0.07	0	0	0	0	0	0
12/10/2024 11:26	40801	EXCH_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/10/2024 11:28	40801	EXCH_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/10/2024 11:28	40802	EXCH_T2	1	1	0	0.2	0.4	0.2	-0.07	-0.07	0	0	0	0	0	0
12/10/2024 11:29	63804	HEMP_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
12/10/2024 11:29	63801	HEMP_T1	0	0	0	0	0	0	0.44	0.23	0	0	0	0	0	0
12/10/2024 11:30	40802	EXCH_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
12/10/2024 11:30	40801	EXCH_T2	3	2	-1	0.13	0.2	0.07	-0.51	-0.49	1	1	0	1200	1200	0
12/10/2024 11:32	40602	PIGR_T1	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
12/10/2024 11:32	40601	PIGR_T1	27	7	-20	0.13	0.11	-0.02	0	0	0	0	0	0	0	0
12/10/2024 11:38	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
12/10/2024 11:40	67402	WAKE_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/10/2024 11:40	67401	WAKE_T2	1	3	2	0.1	0.1	0	-1.16	-1.15	0	0	0	0	0	0
12/10/2024 11:40	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 11:41	46001	BERW_T1	0	0	0	0	0	0	0.97	0.96	0	0	0	0	0	0
12/10/2024 11:41	46002	BERW_T2	0	0	0	0	0	0	-0.72	-0.65	1	1	0	900	900	0
12/10/2024 11:41	46004	BERW_T2	0	1	1	0	0	0	-0.16	-0.14	0	0	0	0	0	0
12/10/2024 11:42	61503	EPET_T1	0	0	0	0	0	0	-1.11	-1.07	0	0	0	0	0	0
12/10/2024 11:43	46001	BERW_T1	0	0	0	0	0	0	0.97	0.96	0	0	0	0	0	0
12/10/2024 11:44	46004	BERW_T2	0	1	1	0	0	0	-0.16	-0.14	0	0	0	0	0	0
12/10/2024 11:45	61503	EPET_T1	0	0	0	0	0	0	-1.11	-1.07	0	0	0	0	0	0
12/10/2024 11:45	61505	EPET_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 11:46	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	-1.32	-1.35	1	1	0	600	600	0
12/10/2024 11:46	54502	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
12/10/2024 11:47	52401	GRPA_T2	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
12/10/2024 11:47	52402	GRPA_T2	8	4	-4	0.26	0.73	0.47	0	0	0	0	0	0	0	0
12/10/2024 11:47	52404	GRPA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
12/10/2024 11:47	52403	GRPA_T2	7	12	5	0.26	0.33	0.07	-0.2	-0.2	0	0	0	0	0	0
12/10/2024 11:48	65603	QVIL_T2	0	0	0	0	0	0	0.46	0.5	0	0	0	0	0	0
12/10/2024 11:48	20201	JERM_T1	0	0	0	0	0	0	-0.13	-0.12	2	2	0	2400	2400	0
12/10/2024 12:01	63804	HEMP_T1	1	1	0	6.1	5.8	-0.3	0.89	0.87	0	0	0	0	0	0
12/10/2024 12:01	63803	HEMP_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
12/10/2024 12:03	52401	GRPA_T2	2	2	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
12/10/2024 12:03	52403	GRPA_T2	12	5	-7	0.33	0.24	-0.09	-0.2	-0.21	0	0	0	0	0	0
12/10/2024 12:03	52402	GRPA_T2	4	4	0	0.73	0.5	-0.23	0	0	0	0	0	0	0	0
12/10/2024 12:03	52404	GRPA_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
12/10/2024 12:11	66902	SHIL_T2	0	0	0	0	0	0	-2.04	-2.03	0	0	0	0	0	0
12/10/2024 12:12	67401	WAKE_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/10/2024 12:12	67402	WAKE_T2	1	1	0	0.2	0.2	0	0.35	0.31	1	1	0	600	600	0
12/10/2024 12:15	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
12/10/2024 12:15	63803	HEMP_T1	3	1	-2	0.1	0.1	0	0.11	0.04	0	0	0	0	0	0
12/10/2024 12:16	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
12/10/2024 12:16	63803	HEMP_T1	3	1	-2	0.1	0.1	0	0.11	0.04	0	0	0	0	0	0
12/10/2024 12:23	49803	UNIV_T1	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
12/10/2024 12:23	49804	UNIV_T1	0	1	1	0	0.3	0.3	0.42	0.41	0	0	0	0	0	0
12/10/2024 12:24	60803	BUCK_T1	17	17	0	0.51	0.48	-0.03	0	0	0	0	0	0	0	0
12/10/2024 12:24	60801	BUCK_T1	37	37	0	0.28	0.3	0.02	0	0	0	0	0	0	0	0
12/10/2024 12:26	49804	UNIV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/10/2024 12:26	49803	UNIV_T1	1	1	0	5	4.9	-0.1	-1.15	-1.18	0	0	0	0	0	0
12/10/2024 12:29	24102	EHAZ_T1	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
12/10/2024 12:29	24105	EHAZ_T1	3	4	1	6.27	6.08	-0.19	0	0	0	0	0	0	0	0
12/10/2024 12:29	24101	EHAZ_T1	23	15	-8	1.46	0.3	-1.16	0	0	0	0	0	0	0	0
12/10/2024 12:29	24104	EHAZ_T1	0	0	0	0	0	0	-0.84	-0.85	1	1	0	1200	1200	0
12/10/2024 12:30	45802	HEGI_T2	3	3	0	0.6	0	-0.6	1.06	1.26	0	0	0	0	0	0
12/10/2024 12:31	13503	MCMI_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
12/10/2024 12:32	45802	HEGI_T2	3	3	0	0.6	0	-0.6	1.06	1.26	0	0	0	0	0	0
12/10/2024 12:32	54602	SUMM_T2	0	0	0	0	0	0	-8.6	-8.7	2	2	0	1200	1200	0
12/10/2024 12:32	40101	HUNT_T2	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
12/10/2024 12:32	54601	SUMM_T2	10	9	-1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
12/10/2024 12:34	55001	NEWP_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
12/10/2024 12:34	55002	NEWP_T1	5	6	1	1.02	0.77	-0.25	0	0	0	0	0	0	0	0
12/10/2024 12:36	43105	SMIL_T2	9	4	-5	0.13	0.13	0	0	0	0	0	0	0	0	0
12/10/2024 12:36	43103	SMIL_T2	20	20	0	0.36	0.44	0.08	-0.98	-0.95	0	0	0	0	0	0
12/10/2024 12:36	43108	SMIL_T2	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
12/10/2024 12:36	43102	SMIL_T2	8	8	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
12/10/2024 12:37	43102	SMIL_T2	8	8	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
12/10/2024 12:37	43108	SMIL_T2	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
12/10/2024 12:37	43105	SMIL_T2	9	4	-5	0.13	0.13	0	0	0	0	0	0	0	0	0
12/10/2024 12:37	43103	SMIL_T2	20	20	0	0.36	0.44	0.08	-0.98	-0.95	0	0	0	0	0	0
12/10/2024 12:38	43103	SMIL_T2	20	20	0	0.36	0.44	0.08	0	0	0	0	0	0	0	0
12/10/2024 12:38	43102	SMIL_T2	8	8	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
12/10/2024 12:38	43101	SMIL_T2	0	0	0	0	0	0	-0.72	-0.56	0	0	0	0	0	0
12/10/2024 12:38	43105	SMIL_T2	9	4	-5	0.13	0.13	0	0	0	0	0	0	0	0	0
12/10/2024 12:38	43108	SMIL_T2	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
12/10/2024 12:39	43105	SMIL_T2	9	4	-5	0.13	0.13	0	0	0	0	0	0	0	0	0
12/10/2024 12:39	43108	SMIL_T2	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
12/10/2024 12:39	43102	SMIL_T2	8	8	0	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
12/10/2024 12:39	43103	SMIL_T2	20	20	0	0.36	0.44	0.08	0	0	0	0	0	0	0	0
12/10/2024 12:42	48302	ORWI_T2	2	4	2	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
12/10/2024 12:58	65205	PRIN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/10/2024 13:18	41205	KENM_T2	0	0	0	0	0	0	-0.02	-0.07	0	0	0	0	0	0
12/10/2024 13:18	41202	KENM_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/10/2024 13:20	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/10/2024 13:27	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/10/2024 13:35	54601	SUMM_T2	9	9	0	0.41	0.66	0.25	0	0	0	0	0	0	0	0
12/10/2024 13:35	54602	SUMM_T2	0	3	3	0	0.1	0.1	-4.35	-4.31	1	1	0	600	600	0
12/10/2024 13:36	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/10/2024 13:40	66901	SHIL_T2	0	0	0	0	0	0	-0.31	-0.35	0	0	0	0	0	0
12/10/2024 13:56	60301	TWVA_T2	0	0	0	0	0	0	-1.96	-1.96	2	2	0	1800	1800	0
12/10/2024 14:32	24001	WIBA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 14:34	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 14:34	65503	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/10/2024 14:37	49804	UNIV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/10/2024 14:37	49803	UNIV_T1	1	1	0	5.1	5	-0.1	-1.09	-0.94	0	0	0	0	0	0
12/10/2024 17:43	46004	BERW_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/10/2024 17:43	46002	BERW_T2	0	0	0	0	0	0	-1.13	-1.13	1	1	0	900	900	0
12/10/2024 17:51	46004	BERW_T2	1	1	0	0.7	0	-0.7	-0.34	-0.41	0	0	0	0	0	0
12/10/2024 17:56	46602	LACR_T1	0	0	0	0	0	0	-1.13	-1.13	0	0	0	0	0	0
12/10/2024 17:57	45702	LIND_T2	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
12/10/2024 17:57	45701	LIND_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
12/10/2024 17:57	48302	ORWI_T2	2	7	5	0.5	0.9	0.4	0	0	0	0	0	0	0	0
12/10/2024 18:02	43801	SWIL_T1	2	2	0	3.2	3.1	-0.1	0	0	0	0	0	0	0	0
12/10/2024 18:02	40801	EXCH_T2	3	6	3	0.17	0.27	0.1	0	0	0	0	0	0	0	0
12/10/2024 18:02	40802	EXCH_T2	0	12	12	0	0.17	0.17	-0.31	-0.28	0	0	0	0	0	0
12/10/2024 18:02	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 18:02	41205	KENM_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
12/10/2024 18:04	20201	JERM_T1	0	1	1	0	0.1	0.1	-0.68	-0.69	2	2	0	2400	2400	0
12/10/2024 18:05	63804	HEMP_T1	1	1	0	6.4	6.2	-0.2	0.78	0.77	0	0	0	0	0	0
12/10/2024 18:07	45802	HEGI_T2	46	47	1	1.41	1.71	0.3	-0.2	0.68	1	0	-1	900	0	-900
12/10/2024 18:07	49803	UNIV_T1	1	1	0	5.4	5.1	-0.3	-1.15	-1.09	0	0	0	0	0	0
12/10/2024 18:08	55002	NEWP_T1	1	4	3	0.1	0.38	0.28	0	0	0	0	0	0	0	0
12/10/2024 18:08	55001	NEWP_T1	0	0	0	0	0	0	-0.3	-0.34	0	0	0	0	0	0
12/10/2024 18:10	63802	HEMP_T1	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
12/10/2024 18:10	63804	HEMP_T1	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
12/10/2024 18:11	60803	BUCK_T1	11	14	3	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
12/10/2024 18:11	60801	BUCK_T1	11	19	8	0.12	0.17	0.05	0	0	0	0	0	0	0	0
12/10/2024 18:12	65601	QVIL_T2	0	18	18	0	0.13	0.13	0	0	0	0	0	0	0	0
12/10/2024 18:12	20601	GRWO_T2	131	142	11	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
12/10/2024 18:12	20602	GRWO_T2	7	8	1	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
12/10/2024 18:12	65604	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/10/2024 18:12	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/10/2024 18:12	20603	GRWO_T2	120	121	1	0.49	0.44	-0.05	0.42	0.44	0	0	0	0	0	0
12/10/2024 18:12	65603	QVIL_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
12/10/2024 18:13	54201	PENN_T1	6	10	4	0.32	0.45	0.13	0	0	0	0	0	0	0	0
12/10/2024 18:13	63501	HEID_TBK1-2	32	35	3	0.31	0.47	0.16	-0.48	-0.5	1	1	0	900	900	0
12/10/2024 18:13	43105	SMIL_T2	0	4	4	0	0.17	0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/10/2024 18:13	43108	SMIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
12/10/2024 18:13	45702	LIND_T2	1	1	0	1.1	1.5	0.4	-0.64	-0.61	0	0	0	0	0	0
12/10/2024 18:13	43103	SMIL_T2	4	17	13	0.5	0.3	-0.2	-0.95	-0.94	0	0	0	0	0	0
12/10/2024 18:13	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 18:13	54203	PENN_T1	18	18	0	0.93	1.14	0.21	-0.05	-0.07	0	0	0	0	0	0
12/10/2024 18:13	61503	EPET_T1	0	0	0	0	0	0	-0.4	-0.44	0	0	0	0	0	0
12/10/2024 18:13	43102	SMIL_T2	6	6	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
12/10/2024 18:13	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 18:13	45501	DERR_T2	0	0	0	0	0	0	0.19	0.2	2	2	0	1800	1800	0
12/10/2024 18:14	67401	WAKE_T2	0	15	15	0	0.14	0.14	-1.18	-1.18	0	0	0	0	0	0
12/10/2024 18:14	43101	SMIL_T2	0	1	1	0	0	0	-0.74	-0.75	0	0	0	0	0	0
12/10/2024 18:14	43108	SMIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
12/10/2024 18:14	43105	SMIL_T2	0	4	4	0	0.17	0.17	0	0	0	0	0	0	0	0
12/10/2024 18:14	43102	SMIL_T2	6	6	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
12/10/2024 18:14	43103	SMIL_T2	4	17	13	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
12/10/2024 18:15	43102	SMIL_T2	6	6	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
12/10/2024 18:15	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 18:15	43108	SMIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
12/10/2024 18:15	43103	SMIL_T2	4	17	13	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
12/10/2024 18:15	43105	SMIL_T2	1	4	3	0.1	0.17	0.07	0	0	0	0	0	0	0	0
12/10/2024 18:16	24103	EHAZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 18:16	24102	EHAZ_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
12/10/2024 18:16	24101	EHAZ_T1	1	30	29	1.1	0.72	-0.38	0	0	0	0	0	0	0	0
12/10/2024 18:16	24105	EHAZ_T1	4	6	2	6.48	6.43	-0.05	0	0	0	0	0	0	0	0
12/10/2024 18:16	24104	EHAZ_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	1200	1200	0
12/10/2024 18:17	43108	SMIL_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
12/10/2024 18:17	43105	SMIL_T2	1	4	3	0.1	0.17	0.07	0	0	0	0	0	0	0	0
12/10/2024 18:17	43102	SMIL_T2	6	6	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
12/10/2024 18:17	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 18:17	43103	SMIL_T2	4	17	13	0.38	0.3	-0.08	-0.95	-0.94	0	0	0	0	0	0
12/10/2024 18:17	54601	SUMM_T2	9	9	0	0.34	0.48	0.14	0	0	0	0	0	0	0	0
12/10/2024 18:17	45501	DERR_T2	0	0	0	0	0	0	0.19	0.2	2	2	0	1800	1800	0
12/10/2024 18:17	54603	SUMM_T2	0	0	0	0	0	0	-0.52	-0.55	1	1	0	900	900	0
12/10/2024 18:17	54206	PENN_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
12/10/2024 18:17	21901	HUMB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 18:17	49803	UNIV_T1	1	1	0	5.1	5.1	0	-1.15	-1.09	0	0	0	0	0	0
12/10/2024 18:17	46001	BERW_T1	0	0	0	0	0	0	1.33	1.32	0	0	0	0	0	0
12/10/2024 18:18	54601	SUMM_T2	9	9	0	0.34	0.48	0.14	0	0	0	0	0	0	0	0
12/10/2024 18:18	65205	PRIN_T1	1	1	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
12/10/2024 18:18	65604	QVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/10/2024 18:18	65602	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/10/2024 18:18	46001	BERW_T1	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
12/10/2024 18:18	66901	SHIL_T2	0	0	0	0	0	0	-0.3	-0.38	0	0	0	0	0	0
12/10/2024 18:18	45802	HEGI_T2	47	22	-25	1.71	0.52	-1.19	0	0	0	0	0	0	0	0
12/10/2024 18:18	63801	HEMP_T1	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
12/10/2024 18:18	65603	QVIL_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
12/10/2024 18:18	63804	HEMP_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
12/10/2024 18:18	21901	HUMB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 18:18	61503	EPET_T1	0	0	0	0	0	0	-0.4	-0.44	0	0	0	0	0	0
12/10/2024 18:18	54602	SUMM_T2	0	0	0	0	0	0	-4.4	-4.38	1	1	0	600	600	0
12/10/2024 18:18	65601	QVIL_T2	18	9	-9	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
12/10/2024 18:19	66902	SHIL_T2	0	0	0	0	0	0	-1.99	-1.99	0	0	0	0	0	0
12/10/2024 18:19	41802	GOCI_T2	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
12/10/2024 18:19	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
12/10/2024 18:19	40101	HUNT_T2	44	40	-4	0.38	0.24	-0.14	-0.89	-0.86	0	0	0	0	0	0
12/10/2024 18:19	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	-1.31	-1.32	1	1	0	600	600	0
12/10/2024 18:19	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 18:20	40802	EXCH_T2	0	12	12	0	0.17	0.17	0	0	0	0	0	0	0	0
12/10/2024 18:20	47401	PENS_T1	0	0	0	0	0	0	0.12	0.19	0	0	0	0	0	0
12/10/2024 18:20	67401	WAKE_T2	15	1	-14	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
12/10/2024 18:20	64801	MONE_T2	10	3	-7	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
12/10/2024 18:20	49804	UNIV_T1	0	0	0	0	0	0	0.44	0.49	0	0	0	0	0	0
12/10/2024 18:20	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
12/10/2024 18:20	47403	PENS_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/10/2024 18:20	40801	EXCH_T2	1	7	6	0.2	0.26	0.06	-0.52	-0.55	1	1	0	1200	1200	0
12/10/2024 18:20	49803	UNIV_T1	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
12/10/2024 18:20	64802	MONE_T2	31	10	-21	0.18	0.16	-0.02	-0.11	-0.07	0	0	0	0	0	0
12/10/2024 18:20	46004	BERW_T2	0	2	2	0	0.6	0.6	-0.41	-0.32	0	0	0	0	0	0
12/10/2024 18:21	55002	NEWP_T1	3	4	1	0.23	0.38	0.15	0	0	0	0	0	0	0	0
12/10/2024 18:21	63803	HEMP_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
12/10/2024 18:21	63804	HEMP_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
12/10/2024 18:21	55001	NEWP_T1	0	0	0	0	0	0	-0.3	-0.34	0	0	0	0	0	0
12/10/2024 18:21	60301	TWVA_T2	0	0	0	0	0	0	-2.07	-2.06	2	2	0	1800	1800	0
12/10/2024 18:22	55101	WERT_T1	0	0	0	0	0	0	-1.01	-0.98	1	1	0	600	600	0
12/10/2024 18:22	55103	WERT_T1	0	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0
12/10/2024 18:23	65601	QVIL_T2	18	9	-9	0.13	0.1	-0.03	-1.17	-1.17	1	1	0	900	900	0
12/10/2024 18:23	65602	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/10/2024 18:23	67401	WAKE_T2	15	1	-14	0.14	0.1	-0.04	-1.18	-1.17	0	0	0	0	0	0
12/10/2024 18:23	24004	WIBA_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
12/10/2024 18:23	43801	SWIL_T1	2	2	0	3.1	3.1	0	0	0	0	0	0	0	0	0
12/10/2024 18:23	24001	WIBA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 18:23	65604	QVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/10/2024 18:23	43802	SWIL_T1	0	0	0	0	0	0	-0.22	-0.22	1	1	0	600	600	0
12/10/2024 18:23	13503	MCMI_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
12/10/2024 18:24	54601	SUMM_T2	9	9	0	0.34	0.48	0.14	0	0	0	0	0	0	0	0
12/10/2024 18:24	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/10/2024 18:24	63803	HEMP_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
12/10/2024 18:24	54603	SUMM_T2	0	0	0	0	0	0	-0.55	-0.53	1	1	0	900	900	0
12/10/2024 18:24	63804	HEMP_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
12/10/2024 18:25	65601	QVIL_T2	18	9	-9	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
12/10/2024 18:25	65602	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/10/2024 18:25	65603	QVIL_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
12/10/2024 18:25	41901	REED_T1	6	9	3	0.22	0.42	0.2	0	0	0	0	0	0	0	0
12/10/2024 18:25	65604	QVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/10/2024 18:25	41902	REED_T1	5	2	-3	0.54	0.1	-0.44	1.07	1.11	0	0	0	0	0	0
12/10/2024 18:26	40101	HUNT_T2	44	40	-4	0.38	0.24	-0.14	-0.86	-0.86	0	0	0	0	0	0
12/10/2024 18:27	45802	HEGI_T2	47	22	-25	1.71	0.52	-1.19	0.68	0.86	0	0	0	0	0	0
12/10/2024 18:28	63804	HEMP_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
12/10/2024 18:28	65601	QVIL_T2	18	9	-9	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
12/10/2024 18:28	65602	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/10/2024 18:28	63803	HEMP_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
12/10/2024 18:28	40802	PIGR_T1	2	1	-1	1.35	2	0.65	0	0	0	0	0	0	0	0
12/10/2024 18:28	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 18:28	65604	QVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/10/2024 18:28	40601	PIGR_T1	0	38	38	0	0.14	0.14	0	0	0	0	0	0	0	0
12/10/2024 18:29	55001	NEWP_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
12/10/2024 18:29	42903	MIDD_T2	2	2	0	0.85	0.5	-0.35	0	0	0	0	0	0	0	0
12/10/2024 18:29	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 18:29	60803	BUCK_T1	13	6	-7	0.22	0.25	0.03	0	0	0	0	0	0	0	0
12/10/2024 18:29	65601	QVIL_T2	18	9	-9	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
12/10/2024 18:29	60801	BUCK_T1	19	1	-18	0.17	0.1	-0.07	-0.23	-0.21	0	0	0	0	0	0
12/10/2024 18:29	42902	MIDD_T2	0	0	0	0	0	0	-0.49	-0.53	0	0	0	0	0	0
12/10/2024 18:29	65602	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/10/2024 18:29	65604	QVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/10/2024 18:29	55002	NEWP_T1	3	4	1	0.23	0.38	0.15	0	0	0	0	0	0	0	0
12/10/2024 18:31	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 18:31	42903	MIDD_T2	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
12/10/2024 18:32	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 18:32	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	-1.18	-1.17	0	0	0	0	0	0
12/10/2024 18:32	41802	GOCI_T2	7	0	-7	0.13	0	-0.13	0	0	0	0	0	0	0	0
12/10/2024 18:33	42903	MIDD_T2	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
12/10/2024 18:33	40802	EXCH_T2	12	1	-11	0.17	0.1	-0.07	-0.29	-0.3	0	0	0	0	0	0
12/10/2024 18:33	42902	MIDD_T2	0	0	0	0	0	0	-0.49	-0.53	0	0	0	0	0	0
12/10/2024 18:33	44301	BEAV_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/10/2024 18:33	40801	EXCH_T2	6	3	-3	0.27	0.27	0	0	0	0	0	0	0	0	0
12/10/2024 18:34	65602	QVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
12/10/2024 18:34	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/10/2024 18:34	65601	QVIL_T2	9	7	-2	0.1	0.11	0.01	0	0	0	0	0	0	0	0
12/10/2024 18:37	53501	EVIL_T2	2	2	0	0.5	0.75	0.25	-0.98	-0.9	1	1	0	600	600	0
12/10/2024 18:40	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2024 18:41	52403	GRPA_T2	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
12/10/2024 18:41	52404	GRPA_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
12/10/2024 18:41	52402	GRPA_T2	3	3	0	0.53	0.83	0.3	0	0	0	0	0	0	0	0
12/10/2024 19:07	52403	GRPA_T2	0	0	0	0	0	0	-0.11	-0.15	0	0	0	0	0	0
12/10/2024 19:07	52404	GRPA_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
12/10/2024 19:07	52402	GRPA_T2	3	3	0	0.83	0.9	0.07	0	0	0	0	0	0	0	0
12/10/2024 21:00	63804	HEMP_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
12/10/2024 21:00	63803	HEMP_T1	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
12/11/2024 9:00	67503	WEWI_T2	1	1	0	9.1	8.9	-0.2	-0.17	-0.15	0	0	0	0	0	0
12/11/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.41	0.28	0	0	0	0	0	0
12/11/2024 9:51	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/11/2024 9:51	67002	STHI_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
12/11/2024 10:07	13702	SCHN_T1	0	0	0	0	0	0	0.76	0.77	0	0	0	0	0	0
12/11/2024 10:09	12102	SALL_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
12/11/2024 10:33	16101	BING_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
12/11/2024 11:33	64801	MONE_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
12/11/2024 11:33	64802	MONE_T2	23	298	275	0.12	0.26	0.14	0	0	0	0	0	0	0	0
12/11/2024 11:58	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/11/2024 12:20	44201	POIN_T1	1	84	83	0.1	0.23	0.13	-3.36	-3.42	4	4	0	4200	4200	0
12/11/2024 12:22	43103	SMIL_T2	19	21	2	0.58	0.6	0.02	-1.97	-1.97	0	0	0	0	0	0
12/11/2024 12:22	43108	SMIL_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
12/11/2024 12:22	43105	SMIL_T2	17	16	-1	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
12/11/2024 12:22	43102	SMIL_T2	8	6	-2	0.68	0.52	-0.16	0	0	0	0	0	0	0	0
12/11/2024 12:25	43103	SMIL_T2	19	21	2	0.58	0.6	0.02	-0.99	-0.98	0	0	0	0	0	0
12/11/2024 12:25	43102	SMIL_T2	8	6	-2	0.68	0.52	-0.16	0	0	0	0	0	0	0	0
12/11/2024 12:25	43108	SMIL_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
12/11/2024 12:25	43105	SMIL_T2	17	16	-1	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
12/11/2024 16:16	64802	MONE_T2	1	9	8	0.1	0.12	0.02	0	0	0	0	0	0	0	0
12/11/2024 16:46	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/11/2024 17:49	13702	SCHN_T1	0	0	0	0	0	0	0.77	0.76	0	0	0	0	0	0
12/11/2024 18:05	16102	BING_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/11/2024 18:05	16101	BING_T2	0	0	0	0	0	0	0.38	0.44	0	0	0	0	0	0
12/11/2024 18:07	12102	SALL_T2	0	0	0	0	0	0	0.04	0.08	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/11/2024 18:10	67001	STHI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/11/2024 18:10	67002	STHI_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
12/11/2024 18:26	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 7:53	10805	CHHI_T2	1	1	0	7.5	7.4	-0.1	-0.85	-0.84	1	1	0	600	600	0
12/12/2024 7:59	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 8:04	55002	NEWP_T1	6	6	0	0.93	0.52	-0.41	0	0	0	0	0	0	0	0
12/12/2024 8:04	64802	MONE_T2	0	3	3	0	0.1	0.1	0.26	0.21	0	0	0	0	0	0
12/12/2024 8:04	55507	HERS_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/12/2024 8:04	55001	NEWP_T1	1	1	0	0.1	0.2	0.1	-0.8	-0.81	1	1	0	600	600	0
12/12/2024 8:04	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/12/2024 8:05	55503	HERS_T1	0	0	0	0	0	0	-1.73	-1.73	1	0	-1	1200	0	-1200
12/12/2024 8:14	45502	DERR_T2	5	11	6	0.44	0.47	0.03	0	0	0	0	0	0	0	0
12/12/2024 8:14	45501	DERR_T2	11	25	14	0.38	0.5	0.12	1.24	0.63	2	2	0	1800	1800	0
12/12/2024 8:15	21901	HUMB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 8:21	67101	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 8:22	52001	LING_T1	0	0	0	0	0	0	0.36	0.31	0	0	0	0	0	0
12/12/2024 8:23	66902	SHIL_T2	0	0	0	0	0	0	-1.98	-1.99	0	0	0	0	0	0
12/12/2024 8:29	49804	UNIV_T1	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
12/12/2024 8:29	49803	UNIV_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
12/12/2024 8:33	12006	HATF_T1	2	2	0	1.75	1.45	-0.3	0.98	0.98	1	1	0	1200	1200	0
12/12/2024 8:35	13303	ORVI_T1	0	0	0	0	0	0	-0.32	-0.22	0	0	0	0	0	0
12/12/2024 8:37	64904	MILL_T1	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
12/12/2024 8:37	64901	MILL_T1	11	21	10	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
12/12/2024 8:40	46206	DANV_T2	1	3	2	0.3	0.3	0	4.98	5.08	2	2	0	2400	2400	0
12/12/2024 8:40	46204	DANV_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
12/12/2024 8:41	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 8:41	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
12/12/2024 8:41	10102	ALLE_T2	8	11	3	1.31	1.76	0.45	0	0	0	0	0	0	0	0
12/12/2024 8:41	10206	ALLE_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
12/12/2024 8:42	46204	DANV_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
12/12/2024 8:42	46206	DANV_T2	1	3	2	0.3	0.3	0	2.49	2.54	1	1	0	1200	1200	0
12/12/2024 8:51	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 8:51	46002	BERW_T2	0	0	0	0	0	0	-0.52	-0.52	1	1	0	900	900	0
12/12/2024 8:51	55002	NEWP_T1	4	7	3	0.23	0.78	0.55	-0.15	-0.15	0	0	0	0	0	0
12/12/2024 8:55	41902	REED_T1	2	2	0	0.3	0	-0.3	1.09	0.41	0	0	0	0	0	0
12/12/2024 8:55	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/12/2024 8:57	66503	SMAN_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
12/12/2024 8:58	63501	HEID_TBK1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 9:00	67702	WERN_T2	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
12/12/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
12/12/2024 9:01	67702	WERN_T2	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
12/12/2024 9:03	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/12/2024 9:03	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 9:03	67002	STHI_T2	0	1	1	0	0.1	0.1	2.1	1.98	0	0	0	0	0	0
12/12/2024 9:03	67702	WERN_T2	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
12/12/2024 9:04	64101	REFR_T1	0	2	2	0	0.1	0.1	-0.03	-0.04	0	0	0	0	0	0
12/12/2024 9:04	67702	WERN_T2	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
12/12/2024 9:04	67002	STHI_T2	0	1	1	0	0.1	0.1	1.4	1.32	0	0	0	0	0	0
12/12/2024 9:04	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 9:04	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/12/2024 9:05	55002	NEWP_T1	4	6	2	0.23	0.9	0.67	-0.15	-0.16	0	0	0	0	0	0
12/12/2024 9:05	64101	REFR_T1	0	2	2	0	0.1	0.1	-0.09	-0.12	0	0	0	0	0	0
12/12/2024 9:06	67002	STHI_T2	0	1	1	0	0.1	0.1	0.66	0.66	0	0	0	0	0	0
12/12/2024 9:06	67503	WEWI_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
12/12/2024 9:06	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/12/2024 9:06	64101	REFR_T1	0	2	2	0	0.1	0.1	-0.04	-0.05	0	0	0	0	0	0
12/12/2024 9:06	67502	WEWI_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
12/12/2024 9:07	55002	NEWP_T1	4	6	2	0.23	0.9	0.67	-0.16	-0.14	0	0	0	0	0	0
12/12/2024 9:08	24105	EHAZ_T1	4	4	0	5.95	5.78	-0.17	-2.04	-2.07	1	1	0	1200	1200	0
12/12/2024 9:08	24101	EHAZ_T1	20	34	14	0.46	0.61	0.15	0	0	0	0	0	0	0	0
12/12/2024 9:08	64101	REFR_T1	0	2	2	0	0.1	0.1	-0.08	-0.1	0	0	0	0	0	0
12/12/2024 9:08	24102	EHAZ_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/12/2024 9:09	14601	SWHI_T1	0	0	0	0	0	0	-0.7	-0.8	0	0	0	0	0	0
12/12/2024 9:09	64101	REFR_T1	0	2	2	0	0.1	0.1	-0.04	-0.05	0	0	0	0	0	0
12/12/2024 9:11	11203	ELHE_T1	0	0	0	0	0	0	0.93	1.1	0	0	0	0	0	0
12/12/2024 9:12	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 9:12	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
12/12/2024 9:13	14204	EALL_T2	0	0	0	0	0	0	0.33	0.22	0	0	0	0	0	0
12/12/2024 9:14	66505	SMAN_T2	0	0	0	0	0	0	0.01	-0.11	1	1	0	900	900	0
12/12/2024 9:14	63501	HEID_TBK1-2	0	0	0	0	0	0	0.16	0.08	1	1	0	900	900	0
12/12/2024 9:16	40602	PIGR_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
12/12/2024 9:17	63802	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/12/2024 9:17	63804	HEMP_T1	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
12/12/2024 9:17	63803	HEMP_T1	1	3	2	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
12/12/2024 9:17	63801	HEMP_T1	0	1	1	0	0.1	0.1	0.33	1.04	0	0	0	0	0	0
12/12/2024 9:19	24206	PROV_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 9:19	24202	PROV_T4	0	0	0	0	0	0	-0.73	-0.73	1	1	0	1200	1200	0
12/12/2024 9:21	14201	EALL_T1	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
12/12/2024 9:21	57702	PAXT_T1	15	19	4	0.26	0.25	-0.01	0.44	0.44	0	0	0	0	0	0
12/12/2024 9:21	57701	PAXT_T1	303	313	10	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
12/12/2024 9:22	45501	DERR_T2	62	1	-61	0.73	0	-0.73	0.14	0.07	2	2	0	1800	1800	0
12/12/2024 9:22	54203	PENN_T1	18	18	0	1.29	1.32	0.03	0.71	0.72	0	0	0	0	0	0
12/12/2024 9:22	54201	PENN_T1	11	12	1	1.35	1.13	-0.22	-0.47	-0.43	0	0	0	0	0	0
12/12/2024 9:22	55002	NEWP_T1	6	7	1	0.78	0.89	0.11	-0.14	-0.16	0	0	0	0	0	0
12/12/2024 9:23	54201	PENN_T1	11	12	1	1.35	1.13	-0.22	-1.4	-1.29	0	0	0	0	0	0
12/12/2024 9:23	54203	PENN_T1	18	18	0	1.29	1.32	0.03	0	0	0	0	0	0	0	0
12/12/2024 9:24	54202	PENN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/12/2024 9:24	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 9:24	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 9:24	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 9:25	54201	PENN_T1	11	12	1	1.35	1.13	-0.22	0	0	0	0	0	0	0	0
12/12/2024 9:25	57701	PAXT_T1	303	313	10	0.19	0.18	-0.01	-0.05	-0.05	0	0	0	0	0	0
12/12/2024 9:25	54203	PENN_T1	18	18	0	1.29	1.32	0.03	0.71	0.72	0	0	0	0	0	0
12/12/2024 9:25	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 9:25	57702	PAXT_T1	15	19	4	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
12/12/2024 9:27	46206	DANV_T2	0	0	0	0	0	0	2.58	2.59	1	1	0	1200	1200	0
12/12/2024 9:29	46206	DANV_T2	0	0	0	0	0	0	5.16	5.18	2	2	0	2400	2400	0
12/12/2024 9:29	44801	EDAN_T2	0	1	1	0	0	0	-0.29	-0.31	0	0	0	0	0	0
12/12/2024 9:30	44801	EDAN_T2	1	0	-1	0.2	0	-0.2	-0.29	-0.31	0	0	0	0	0	0
12/12/2024 9:30	67702	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/12/2024 9:31	67702	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/12/2024 9:32	67702	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/12/2024 9:33	67702	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/12/2024 9:34	45001	LIME_2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 9:34	45003	LIME_2	1	1	0	3.1	3.4	0.3	0.53	0.44	0	0	0	0	0	0
12/12/2024 9:34	45002	LIME_2	1	1	0	4.3	4.1	-0.2	0	0	0	0	0	0	0	0
12/12/2024 9:38	42501	ALTA_T2	0	0	0	0	0	0	-0.02	0	1	1	0	600	600	0
12/12/2024 9:38	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/12/2024 9:42	42501	ALTA_T2	0	0	0	0	0	0	-0.04	0	2	2	0	1200	1200	0
12/12/2024 9:42	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/12/2024 9:43	67605	WARW_T1	3	11	8	0.4	0.29	-0.11	-1.17	-1.12	0	0	0	0	0	0
12/12/2024 9:44	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 9:44	67605	WARW_T1	3	11	8	0.4	0.29	-0.11	0	0	0	0	0	0	0	0
12/12/2024 9:45	53501	EVIL_T2	2	2	0	0.55	0.5	-0.05	-1.33	-1.27	2	2	0	1500	1500	0
12/12/2024 9:45	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
12/12/2024 9:45	67605	WARW_T1	5	12	7	0.4	0.37	-0.03	-1.17	-1.12	0	0	0	0	0	0
12/12/2024 9:45	53502	EVIL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
12/12/2024 9:45	54501	ENOL_T2	0	0	0	0	0	0	-0.5	-0.52	1	1	0	600	600	0
12/12/2024 9:45	54502	ENOL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
12/12/2024 9:46	67605	WARW_T1	5	12	7	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
12/12/2024 9:46	67603	WARW_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
12/12/2024 9:47	45501	DERR_T2	0	1	1	0	0	0	0.07	0.09	2	2	0	1800	1800	0
12/12/2024 9:47	54501	ENOL_T2	0	0	0	0	0	0	-0.5	-0.52	1	1	0	600	600	0
12/12/2024 9:47	54502	ENOL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
12/12/2024 9:47	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
12/12/2024 9:49	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 9:49	46002	BERW_T2	0	0	0	0	0	0	-0.53	-0.44	1	1	0	900	900	0
12/12/2024 9:50	64904	MILL_T1	0	0	0	0	0	0	0.55	0.5	0	0	0	0	0	0
12/12/2024 9:52	44902	SCOT_T2	0	0	0	0	0	0	-0.93	-0.9	0	0	0	0	0	0
12/12/2024 9:52	55002	NEWP_T1	7	8	1	0.89	1.06	0.17	-0.15	-0.15	0	0	0	0	0	0
12/12/2024 9:57	14603	SWHI_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
12/12/2024 9:57	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/12/2024 9:57	10705	CATA_T2	0	0	0	0	0	0	-1.74	-1.7	2	2	0	1800	1800	0
12/12/2024 9:57	14601	SWHI_T1	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
12/12/2024 9:58	54601	SUMM_T2	7	7	0	0.59	0.64	0.05	-1.8	-1.78	2	2	0	2100	2100	0
12/12/2024 9:59	10705	CATA_T2	0	0	0	0	0	0	-2.61	-2.55	3	3	0	2700	2700	0
12/12/2024 9:59	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/12/2024 10:00	63501	HEID_TBK1-2	0	2	2	0	0.25	0.25	0.06	0.06	1	1	0	900	900	0
12/12/2024 10:01	10707	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/12/2024 10:01	64801	MONE_T2	6	11	5	0.15	0.22	0.07	0	0	0	0	0	0	0	0
12/12/2024 10:01	64802	MONE_T2	49	69	20	0.25	0.26	0.01	0	0	0	0	0	0	0	0
12/12/2024 10:01	63804	HEMP_T1	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
12/12/2024 10:01	10705	CATA_T2	0	0	0	0	0	0	-0.87	-0.85	1	1	0	900	900	0
12/12/2024 10:01	63803	HEMP_T1	1	1	0	0.3	0.5	0.2	0.08	0.06	0	0	0	0	0	0
12/12/2024 10:01	10702	CATA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/12/2024 10:02	63501	HEID_TBK1-2	0	2	2	0	0.25	0.25	0.06	0.06	1	1	0	900	900	0
12/12/2024 10:03	11203	ELHE_T1	0	0	0	0	0	0	1.2	1.22	0	0	0	0	0	0
12/12/2024 10:04	64801	MONE_T2	6	11	5	0.15	0.22	0.07	0	0	0	0	0	0	0	0
12/12/2024 10:04	64802	MONE_T2	49	69	20	0.25	0.26	0.01	0	0	0	0	0	0	0	0
12/12/2024 10:05	55002	NEWP_T1	7	8	1	0.97	1.05	0.08	-0.15	-0.15	0	0	0	0	0	0
12/12/2024 10:05	64801	MONE_T2	6	11	5	0.15	0.22	0.07	0	0	0	0	0	0	0	0
12/12/2024 10:05	64802	MONE_T2	49	69	20	0.25	0.26	0.01	0.22	0.24	0	0	0	0	0	0
12/12/2024 10:07	14603	SWHI_T1	1	1	0	0.4	0.5	0.1	-0.95	-0.94	1	1	0	600	600	0
12/12/2024 10:07	52003	LING_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/12/2024 10:07	52001	LING_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
12/12/2024 10:08	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 10:09	57205	ROSS_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
12/12/2024 10:09	14603	SWHI_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/12/2024 10:10	60701	BREC_T1	2	19	17	0.2	0.26	0.06	-0.29	-0.32	2	2	0	1200	1200	0
12/12/2024 10:11	60701	BREC_T1	2	19	17	0.2	0.26	0.06	-1.16	-1.29	8	8	0	4800	4800	0
12/12/2024 10:11	14603	SWHI_T1	1	1	0	0.4	0.5	0.1	-0.95	-0.94	1	1	0	600	600	0
12/12/2024 10:12	60701	BREC_T1	2	19	17	0.2	0.26	0.06	-1.16	-1.29	8	8	0	4800	4800	0
12/12/2024 10:13	53502	EVIL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/12/2024 10:13	53501	EVIL_T2	1	2	1	0.5	0.45	-0.05	-1.4	-1.47	2	2	0	1500	1500	0
12/12/2024 10:14	40101	HUNT_T2	70	112	42	0.5	0.34	-0.16	-2.46	-2.7	0	0	0	0	0	0
12/12/2024 10:15	40101	HUNT_T2	108	66	-42	0.4	0.34	-0.06	-1.23	-1.35	0	0	0	0	0	0
12/12/2024 10:17	53502	EVIL_T2	1	4	3	1.2	0.6	-0.6	0	0	0	0	0	0	0	0
12/12/2024 10:17	53501	EVIL_T2	2	2	0	0.45	0.45	0	-1.4	-1.47	2	2	0	1500	1500	0
12/12/2024 10:18	53502	EVIL_T2	1	4	3	1.2	0.6	-0.6	0	0	0	0	0	0	0	0
12/12/2024 10:18	53501	EVIL_T2	2	2	0	0.45	0.45	0	-4.2	-4.42	6	6	0	4500	4500	0
12/12/2024 10:18	40101	HUNT_T2	108	66	-42	0.4	0.34	-0.06	-1.23	-1.35	0	0	0	0	0	0
12/12/2024 10:19	54601	SUMM_T2	7	9	2	0.63	0.7	0.07	0	0	0	0	0	0	0	0
12/12/2024 10:19	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/12/2024 10:20	67702	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 10:20	57704	PAXT_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/12/2024 10:20	57703	PAXT_T2	103	171	68	0.16	0.22	0.06	0	0	0	0	0	0	0	0
12/12/2024 10:22	66902	SHIL_T2	0	0	0	0	0	0	-6	-6.03	0	0	0	0	0	0
12/12/2024 10:24	58202	NEWV_T1	0	0	0	0	0	0	0.04	-0.03	0	0	0	0	0	0
12/12/2024 10:27	54601	SUMM_T2	7	9	2	0.63	0.7	0.07	-1.78	-1.8	2	2	0	2100	2100	0
12/12/2024 10:30	61103	BERK_T5	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
12/12/2024 10:32	40101	HUNT_T2	65	50	-15	0.43	0.3	-0.13	-1.35	-1.36	0	0	0	0	0	0
12/12/2024 10:33	45003	LIME_2	1	1	0	3.5	3.4	-0.1	0	0	0	0	0	0	0	0
12/12/2024 10:33	45001	LIME_2	4	20	16	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/12/2024 10:33	61103	BERK_T5	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
12/12/2024 10:33	45002	LIME_2	1	1	0	4.9	5.2	0.3	-0.31	-0.3	0	0	0	0	0	0
12/12/2024 10:39	65207	PRIN_T4	2	2	0	3.9	0.95	-2.95	0	0	0	0	0	0	0	0
12/12/2024 10:39	10801	CHHI_T1	0	1	1	0	0.1	0.1	-0.49	-0.48	1	1	0	900	900	0
12/12/2024 10:39	65206	PRIN_T4	1	2	1	2.8	0	-2.8	0	0	0	0	0	0	0	0
12/12/2024 10:39	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 10:40	59102	WALK_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/12/2024 10:40	59101	WALK_T2	0	0	0	0	0	0	1.76	1.99	0	0	0	0	0	0
12/12/2024 10:45	20603	GRWO_T2	1	0	-1	0.1	0	-0.1	0.44	0.4	0	0	0	0	0	0
12/12/2024 10:48	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
12/12/2024 10:48	54503	ENOL_T2	0	0	0	0	0	0	-0.4	-0.4	1	1	0	600	600	0
12/12/2024 10:48	54502	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/12/2024 10:49	61701	ELIZ_T1	2	2	0	3.25	3.3	0.05	0.09	0.16	0	0	0	0	0	0
12/12/2024 10:49	61703	ELIZ_T1	9	14	5	0.4	0.31	-0.09	0	0	0	0	0	0	0	0
12/12/2024 10:49	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
12/12/2024 10:50	64101	REFR_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
12/12/2024 10:50	65205	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 10:51	58401	MORO_T1	0	0	0	0	0	0	-1.84	-1.91	1	1	0	600	600	0
12/12/2024 10:52	55001	NEWP_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
12/12/2024 10:52	64101	REFR_T1	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
12/12/2024 10:52	45002	LIME_2	1	3	2	4.8	1.9	-2.9	0	0	0	0	0	0	0	0
12/12/2024 10:52	55002	NEWP_T1	11	10	-1	0.78	0.84	0.06	-0.17	-0.17	0	0	0	0	0	0
12/12/2024 10:52	45003	LIME_2	1	1	0	3.4	3.3	-0.1	0	0	0	0	0	0	0	0
12/12/2024 10:52	45001	LIME_2	19	6	-13	0.19	0.2	0.01	0	0	0	0	0	0	0	0
12/12/2024 10:54	58401	MORO_T1	0	0	0	0	0	0	-3.82	-3.76	2	2	0	1200	1200	0
12/12/2024 10:54	45501	DERR_T2	0	0	0	0	0	0	0.96	0.97	2	2	0	1800	1800	0
12/12/2024 10:55	44901	SCOT_T2	0	0	0	0	0	0	0.33	0.05	0	0	0	0	0	0
12/12/2024 10:58	45501	DERR_T2	0	0	0	0	0	0	0.96	0.97	2	2	0	1800	1800	0
12/12/2024 10:59	66903	SHIL_T2	0	0	0	0	0	0	-0.97	-0.93	0	0	0	0	0	0
12/12/2024 10:59	62102	ELAN_T1	1	1	0	0.5	0.7	0.2	0.73	0.74	0	0	0	0	0	0
12/12/2024 10:59	66902	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/12/2024 11:01	20603	GRWO_T2	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
12/12/2024 11:02	49803	UNIV_T1	1	1	0	6	5.9	-0.1	-0.9	-0.95	0	0	0	0	0	0
12/12/2024 11:03	53302	GRAT_T2	1	3	2	0.7	0.17	-0.53	0	0	0	0	0	0	0	0
12/12/2024 11:04	64101	REFR_T1	0	1	1	0	0.4	0.4	-0.06	-0.05	0	0	0	0	0	0
12/12/2024 11:04	46602	LAOR_T1	12	19	7	0.16	0.21	0.05	-0.92	-0.8	0	0	0	0	0	0
12/12/2024 11:04	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 11:04	60501	NMAN_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/12/2024 11:04	60504	NMAN_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
12/12/2024 11:05	64101	REFR_T1	0	1	1	0	0.4	0.4	-0.06	-0.05	0	0	0	0	0	0
12/12/2024 11:09	64101	REFR_T1	0	1	1	0	0.4	0.4	-0.05	-0.06	0	0	0	0	0	0
12/12/2024 11:10	64101	REFR_T1	0	1	1	0	0.4	0.4	-0.05	-0.06	0	0	0	0	0	0
12/12/2024 11:10	59101	WALK_T2	0	0	0	0	0	0	2.38	2.34	0	0	0	0	0	0
12/12/2024 11:11	10705	CATA_T2	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
12/12/2024 11:11	10707	CATA_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
12/12/2024 11:11	10702	CATA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/12/2024 11:11	10701	CATA_T2	0	0	0	0	0	0	-0.45	-0.44	0	0	0	0	0	0
12/12/2024 11:11	10703	CATA_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
12/12/2024 11:13	48901	FOSP_T2	0	0	0	0	0	0	-0.08	-0.05	1	1	0	600	600	0
12/12/2024 11:13	10705	CATA_T2	0	1	1	0	1.4	1.4	-2.61	-2.67	3	3	0	2700	2700	0
12/12/2024 11:13	10703	CATA_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
12/12/2024 11:13	48902	FOSP_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
12/12/2024 11:13	10702	CATA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/12/2024 11:13	14205	EALL_T2	0	0	0	0	0	0	-0.38	-0.35	0	0	0	0	0	0
12/12/2024 11:13	10707	CATA_T2	1	1	0	0.1	0.4	0.3	0.59	0.54	0	0	0	0	0	0
12/12/2024 11:14	48902	FOSP_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
12/12/2024 11:14	21901	HUMB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 11:14	61001	DONV_T1	2	2	0	0.65	0.55	-0.1	-0.07	-0.06	0	0	0	0	0	0
12/12/2024 11:14	48901	FOSP_T2	0	0	0	0	0	0	-0.08	-0.05	1	1	0	600	600	0
12/12/2024 11:14	28102	TWLA_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
12/12/2024 11:15	48901	FOSP_T2	0	0	0	0	0	0	-0.08	-0.05	1	1	0	600	600	0
12/12/2024 11:15	48902	FOSP_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
12/12/2024 11:15	10703	CATA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
12/12/2024 11:15	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
12/12/2024 11:15	10705	CATA_T2	0	1	1	0	1.9	1.9	-3.48	-3.56	4	4	0	3600	3600	0
12/12/2024 11:15	10702	CATA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/12/2024 11:15	13101	NHAM_T1	0	0	0	0	0	0	-2.86	-2.84	2	2	0	2400	2400	0
12/12/2024 11:15	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 11:15	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/12/2024 11:15	10701	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 11:15	10707	CATA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/12/2024 11:15	54506	ENOL_T2	0	0	0	0	0	0	0.43	0.38	1	0	-1	600	0	-600
12/12/2024 11:16	57101	SPHI_T2	6	6	0	0.83	0.73	-0.1	0	0	0	0	0	0	0	0
12/12/2024 11:16	61103	BERK_T5	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
12/12/2024 11:16	57104	SPHI_T2	2	4	2	1.85	1.5	-0.35	-1.84	-1.8	1	1	0	900	900	0
12/12/2024 11:16	48902	FOSP_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
12/12/2024 11:16	57106	SPHI_T2	3	3	0	1.77	2.13	0.36	0	0	0	0	0	0	0	0
12/12/2024 11:16	57701	PAXT_T1	0	21	21	0	0.11	0.11	0	0	0	0	0	0	0	0
12/12/2024 11:16	63501	HEID_TBK1-2	2	10	8	0.2	0.2	0	0.04	0.04	1	1	0	900	900	0
12/12/2024 11:16	57702	PAXT_T1	4	6	2	0.23	0.33	0.1	0.13	0.12	0	0	0	0	0	0
12/12/2024 11:16	48901	FOSP_T2	0	0	0	0	0	0	-0.08	-0.05	1	1	0	600	600	0
12/12/2024 11:16	57103	SPHI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
12/12/2024 11:17	10707	CATA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/12/2024 11:17	62105	ELAN_T1	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
12/12/2024 11:17	10703	CATA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
12/12/2024 11:17	48901	FOSP_T2	0	0	0	0	0	0	-0.08	-0.05	1	1	0	600	600	0
12/12/2024 11:17	10702	CATA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/12/2024 11:17	63501	HEID_TBK1-2	2	10	8	0.2	0.2	0	0.04	0.04	1	1	0	900	900	0
12/12/2024 11:17	10705	CATA_T2	0	1	1	0	1.9	1.9	-0.87	-0.89	1	1	0	900	900	0
12/12/2024 11:17	62102	ELAN_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
12/12/2024 11:17	48902	FOSP_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
12/12/2024 11:20	44905	SCOT_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 11:23	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/12/2024 11:23	55002	NEWP_T1	7	7	0	0.79	0.83	0.04	-0.19	-0.18	0	0	0	0	0	0
12/12/2024 11:23	59101	WALK_T2	0	0	0	0	0	0	2.34	2.43	0	0	0	0	0	0
12/12/2024 11:24	59101	WALK_T2	0	0	0	0	0	0	4.69	4.87	0	0	0	0	0	0
12/12/2024 11:25	44905	SCOT_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 11:27	67402	WAKE_T2	0	0	0	0	0	0	1.09	1.12	0	0	0	0	0	0
12/12/2024 11:27	67401	WAKE_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/12/2024 11:29	45802	HEGI_T2	6	32	26	0.18	0.62	0.44	0.35	0.28	1	1	0	900	900	0
12/12/2024 11:29	62102	ELAN_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
12/12/2024 11:29	62106	ELAN_T1	0	0	0	0	0	0	1.11	1.12	0	0	0	0	0	0
12/12/2024 11:31	45802	HEGI_T2	9	42	33	0.29	0.93	0.64	0	0	0	0	0	0	0	0
12/12/2024 11:32	45802	HEGI_T2	9	42	33	0.29	0.93	0.64	0.35	0.28	1	1	0	900	900	0
12/12/2024 11:33	61103	BERK_T5	0	1	1	0	0.1	0.1	0.09	0.09	0	0	0	0	0	0
12/12/2024 11:33	61101	BERK_T5	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
12/12/2024 11:36	66902	SHIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/12/2024 11:36	66901	SHIL_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
12/12/2024 11:38	59101	WALK_T2	0	0	0	0	0	0	2.43	2.58	0	0	0	0	0	0
12/12/2024 11:40	59101	WALK_T2	0	0	0	0	0	0	4.87	5.16	0	0	0	0	0	0
12/12/2024 11:41	44802	EDAN_T2	0	0	0	0	0	0	-2.16	-2.15	0	0	0	0	0	0
12/12/2024 11:41	44801	EDAN_T2	3	2	-1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
12/12/2024 11:42	44801	EDAN_T2	3	2	-1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
12/12/2024 11:42	44802	EDAN_T2	0	0	0	0	0	0	-2.16	-2.15	0	0	0	0	0	0
12/12/2024 11:43	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 11:44	44802	EDAN_T2	0	0	0	0	0	0	-4.32	-4.3	0	0	0	0	0	0
12/12/2024 11:44	44801	EDAN_T2	3	2	-1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
12/12/2024 11:45	44802	EDAN_T2	0	0	0	0	0	0	-4.32	-4.3	0	0	0	0	0	0
12/12/2024 11:45	44801	EDAN_T2	1	3	2	0.1	0.43	0.33	0	0	0	0	0	0	0	0
12/12/2024 11:47	44801	EDAN_T2	1	3	2	0.1	0.43	0.33	0	0	0	0	0	0	0	0
12/12/2024 11:47	41801	GOCI_T2	1	7	6	0.2	0.23	0.03	0	0	0	0	0	0	0	0
12/12/2024 11:47	44802	EDAN_T2	0	0	0	0	0	0	-2.16	-2.15	0	0	0	0	0	0
12/12/2024 11:48	20201	JERM_T1	0	0	0	0	0	0	-0.39	-0.35	2	2	0	2400	2400	0
12/12/2024 11:48	52004	LING_T2	2	2	0	3.65	3.65	0	0.08	0.06	0	0	0	0	0	0
12/12/2024 11:49	63602	LETO_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
12/12/2024 11:49	63601	LETO_T1	6	6	0	0.42	0.57	0.15	2.14	2.04	2	2	0	1800	1800	0
12/12/2024 11:49	10801	CHHI_T1	3	3	0	0.3	0.57	0.27	-0.51	-0.52	1	1	0	900	900	0
12/12/2024 11:50	44505	HAMI_T2	0	0	0	0	0	0	1.4	1.4	0	0	0	0	0	0
12/12/2024 11:50	60701	BREC_T1	9	2	-7	0.32	0.7	0.38	-0.37	-0.37	2	2	0	1200	1200	0
12/12/2024 11:50	44502	HAMI_T2	1	1	0	2.2	2.7	0.5	0	0	0	0	0	0	0	0
12/12/2024 11:51	28102	TWLA_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
12/12/2024 11:51	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
12/12/2024 11:52	64101	REFR_T1	2	3	1	0.2	0.33	0.13	-0.03	0.04	0	0	0	0	0	0
12/12/2024 11:53	55405	SHER_T1	5	5	0	1.36	1.28	-0.08	0	0	0	0	0	0	0	0
12/12/2024 11:54	59101	WALK_T2	0	0	0	0	0	0	2.58	2.33	0	0	0	0	0	0
12/12/2024 11:54	59102	WALK_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
12/12/2024 11:59	45501	DERR_T2	0	0	0	0	0	0	0.72	0.58	2	2	0	1800	1800	0
12/12/2024 12:04	40101	HUNT_T2	32	86	54	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
12/12/2024 12:04	54701	NEBL_T1	8	7	-1	0.79	0.5	-0.29	0	0	1	1	0	600	600	0
12/12/2024 12:05	10805	CHHI_T2	8	8	0	1.81	4.3	2.49	-0.34	-0.4	1	1	0	600	600	0
12/12/2024 12:06	52004	LING_T2	2	2	0	3.65	3.85	0.2	0.06	0.13	0	0	0	0	0	0
12/12/2024 12:07	10801	CHHI_T1	2	3	1	0.75	0.27	-0.48	-0.55	-0.56	1	1	0	900	900	0
12/12/2024 12:10	60101	COCA_T1	5	5	0	0.38	0.58	0.2	0.41	0.37	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/12/2024 12:10	60102	COCA_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/12/2024 12:11	40201	BEGA_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
12/12/2024 12:12	40201	BEGA_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
12/12/2024 12:12	60102	COCA_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/12/2024 12:12	45902	AUBU_T1	0	4	4	0	0	0	0.01	0.01	2	2	0	1200	1200	0
12/12/2024 12:12	60101	COCA_T1	5	5	0	0.38	0.58	0.2	0.41	0.37	0	0	0	0	0	0
12/12/2024 12:14	60102	COCA_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/12/2024 12:14	60101	COCA_T1	5	5	0	0.38	0.58	0.2	0.82	0.74	0	0	0	0	0	0
12/12/2024 12:15	60101	COCA_T1	5	5	0	0.56	0.48	-0.08	0.41	0.37	0	0	0	0	0	0
12/12/2024 12:15	60102	COCA_T1	1	0	-1	0.3	0	-0.3	-0.56	-0.29	2	2	0	1200	1200	0
12/12/2024 12:18	41002	LAUR_T2	32	19	-13	0.28	0.29	0.01	-0.96	-0.96	0	0	0	0	0	0
12/12/2024 12:18	28403	HART_T2	0	0	0	0	0	0	-0.62	-0.61	1	1	0	900	900	0
12/12/2024 12:18	41001	LAUR_T2	69	58	-11	0.31	0.24	-0.07	0	0	0	0	0	0	0	0
12/12/2024 12:19	44201	POIN_T1	93	110	17	0.24	0.28	0.04	-2.21	-2.25	2	2	0	2100	2100	0
12/12/2024 12:20	44201	POIN_T1	93	110	17	0.24	0.28	0.04	-2.21	-2.25	2	2	0	2100	2100	0
12/12/2024 12:21	43304	WATS_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/12/2024 12:21	43301	WATS_T2	0	0	0	0	0	0	-0.44	-0.22	0	0	0	0	0	0
12/12/2024 12:22	57102	SPHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/12/2024 12:22	57103	SPHI_T2	2	3	1	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
12/12/2024 12:22	57104	SPHI_T2	5	4	-1	3.04	2.7	-0.34	-1.83	-1.82	1	1	0	900	900	0
12/12/2024 12:22	57106	SPHI_T2	3	3	0	2.27	2.2	-0.07	0	0	0	0	0	0	0	0
12/12/2024 12:22	57101	SPHI_T2	6	6	0	1.03	1.12	0.09	0	0	0	0	0	0	0	0
12/12/2024 12:23	57101	SPHI_T2	6	6	0	1.03	1.12	0.09	0	0	0	0	0	0	0	0
12/12/2024 12:23	57103	SPHI_T2	2	3	1	0.4	0.27	-0.13	-0.87	-0.89	1	1	0	600	600	0
12/12/2024 12:23	44201	POIN_T1	93	110	17	0.24	0.28	0.04	-2.25	-2.15	2	2	0	2100	2100	0
12/12/2024 12:23	57102	SPHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/12/2024 12:23	57106	SPHI_T2	3	3	0	2.27	2.2	-0.07	0	0	0	0	0	0	0	0
12/12/2024 12:23	57104	SPHI_T2	5	4	-1	3.04	2.7	-0.34	-1.83	-1.82	1	1	0	900	900	0
12/12/2024 12:24	57106	SPHI_T2	3	3	0	2.27	2.2	-0.07	0	0	0	0	0	0	0	0
12/12/2024 12:24	57102	SPHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/12/2024 12:24	57104	SPHI_T2	5	4	-1	3.04	2.7	-0.34	-1.83	-1.82	1	1	0	900	900	0
12/12/2024 12:24	57103	SPHI_T2	2	3	1	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
12/12/2024 12:24	57101	SPHI_T2	6	6	0	1.03	1.12	0.09	0	0	0	0	0	0	0	0
12/12/2024 12:24	60504	NMAN_T2	3	4	1	0.53	0.6	0.07	0	0	0	0	0	0	0	0
12/12/2024 12:24	60501	NMAN_T2	1	6	5	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
12/12/2024 12:25	45902	AUBU_T1	0	4	4	0	0	0	0.01	0.01	2	2	0	1200	1200	0
12/12/2024 12:25	48303	ORWI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/12/2024 12:25	57101	SPHI_T2	6	6	0	1.03	1.12	0.09	0	0	0	0	0	0	0	0
12/12/2024 12:25	48302	ORWI_T2	2	2	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
12/12/2024 12:25	57106	SPHI_T2	3	3	0	2.27	2.2	-0.07	0	0	0	0	0	0	0	0
12/12/2024 12:25	57104	SPHI_T2	5	4	-1	3.04	2.7	-0.34	-1.83	-1.82	1	1	0	900	900	0
12/12/2024 12:25	57102	SPHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/12/2024 12:25	57103	SPHI_T2	2	3	1	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
12/12/2024 12:26	57106	SPHI_T2	3	3	0	2.27	2.2	-0.07	0	0	0	0	0	0	0	0
12/12/2024 12:26	57104	SPHI_T2	5	4	-1	3.04	2.7	-0.34	0	0	0	0	0	0	0	0
12/12/2024 12:26	45902	AUBU_T1	0	4	4	0	0	0	0.01	0.01	1	1	0	600	600	0
12/12/2024 12:26	57102	SPHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/12/2024 12:26	57103	SPHI_T2	2	3	1	0.4	0.27	-0.13	-0.87	-0.89	1	1	0	600	600	0
12/12/2024 12:26	57101	SPHI_T2	6	6	0	1.03	1.12	0.09	0	0	0	0	0	0	0	0
12/12/2024 12:27	67402	WAKE_T2	0	0	0	0	0	0	1.05	1.08	0	0	0	0	0	0
12/12/2024 12:27	55002	NEWP_T1	8	7	-1	0.84	0.9	0.06	-0.18	-0.19	0	0	0	0	0	0
12/12/2024 12:27	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/12/2024 12:27	67401	WAKE_T2	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
12/12/2024 12:27	64602	LEOL_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
12/12/2024 12:29	14203	EALL_T1	0	1	1	0	0.1	0.1	-0.63	-0.6	2	2	0	2400	2400	0
12/12/2024 12:29	47203	FAXO_T2	1	1	0	0.8	0.4	-0.4	-0.32	-0.31	0	0	0	0	0	0
12/12/2024 12:30	41801	GOCI_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
12/12/2024 12:33	41801	GOCI_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
12/12/2024 12:33	60803	BUCK_T1	16	17	1	0.62	0.48	-0.14	0	0	0	0	0	0	0	0
12/12/2024 12:33	60801	BUCK_T1	29	22	-7	0.32	0.28	-0.04	-0.17	-0.11	0	0	0	0	0	0
12/12/2024 12:34	60801	BUCK_T1	29	22	-7	0.32	0.28	-0.04	-0.34	-0.22	0	0	0	0	0	0
12/12/2024 12:34	60803	BUCK_T1	16	17	1	0.62	0.48	-0.14	0	0	0	0	0	0	0	0
12/12/2024 12:34	54505	ENOL_T2	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
12/12/2024 12:34	54502	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/12/2024 12:34	54504	ENOL_T2	0	0	0	0	0	0	-1.03	-1.04	1	1	0	600	600	0
12/12/2024 12:34	54506	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/12/2024 12:35	43102	SMIL_T2	7	6	-1	0.9	0.83	-0.07	-0.83	-0.8	1	1	0	600	600	0
12/12/2024 12:35	43103	SMIL_T2	4	4	0	0.33	0.5	0.17	0	0	0	0	0	0	0	0
12/12/2024 12:35	43105	SMIL_T2	12	13	1	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
12/12/2024 12:35	43101	SMIL_T2	0	1	1	0	0	0	-0.69	-0.67	0	0	0	0	0	0
12/12/2024 12:35	13302	ORVI_T2	1	1	0	1.4	1.5	0.1	1.51	1.44	0	0	0	0	0	0
12/12/2024 12:36	60801	BUCK_T1	29	22	-7	0.32	0.28	-0.04	-0.11	0.01	0	0	0	0	0	0
12/12/2024 12:36	60803	BUCK_T1	16	17	1	0.62	0.48	-0.14	0	0	0	0	0	0	0	0
12/12/2024 12:37	58101	NEKI_T1	4	3	-1	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
12/12/2024 12:37	58102	NEKI_T1	2	2	0	0.85	0.75	-0.1	0.36	0.32	0	0	0	0	0	0
12/12/2024 12:37	60803	BUCK_T1	16	17	1	0.62	0.48	-0.14	0	0	0	0	0	0	0	0
12/12/2024 12:37	60801	BUCK_T1	29	22	-7	0.32	0.28	-0.04	-0.11	0.01	0	0	0	0	0	0
12/12/2024 12:39	66501	SMAN_T2	2	2	0	1.05	0.25	-0.8	0	0	0	0	0	0	0	0
12/12/2024 12:39	66505	SMAN_T2	5	3	-2	0.36	0.2	-0.16	-0.14	-0.2	1	1	0	900	900	0
12/12/2024 12:39	66502	SMAN_T2	8	4	-4	0.34	0.2	-0.14	0	0	0	0	0	0	0	0
12/12/2024 12:39	66504	SMAN_T2	2	2	0	0.9	0.45	-0.45	0	0	0	0	0	0	0	0
12/12/2024 12:43	60201	ATGL_T2	1	2	1	0.5	0.3	-0.2	-0.03	-0.05	0	0	0	0	0	0
12/12/2024 12:43	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/12/2024 12:43	54601	SUMM_T2	9	5	-4	0.61	0.4	-0.21	0	0	0	0	0	0	0	0
12/12/2024 12:44	54601	SUMM_T2	9	5	-4	0.61	0.4	-0.21	0	0	0	0	0	0	0	0
12/12/2024 12:44	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/12/2024 12:51	14203	EALL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/12/2024 12:51	14201	EALL_T1	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
12/12/2024 12:54	61103	BERK_T5	0	1	1	0	0.2	0.2	0.09	0.09	0	0	0	0	0	0
12/12/2024 12:54	61101	BERK_T5	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/12/2024 12:54	58101	NEKI_T1	3	4	1	0.57	0.45	-0.12	0	0	0	0	0	0	0	0
12/12/2024 12:54	58102	NEKI_T1	2	2	0	0.7	0.7	0	0.32	0.33	0	0	0	0	0	0
12/12/2024 13:00	53501	EVIL_T2	1	1	0	0.3	0.6	0.3	-0.63	-0.53	1	1	0	600	600	0
12/12/2024 13:00	53502	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/12/2024 13:04	45002	LIME_2	1	1	0	3.9	3.9	0	0	0	0	0	0	0	0	0
12/12/2024 13:04	45001	LIME_2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
12/12/2024 13:04	45003	LIME_2	2	2	0	1.4	2.5	1.1	0.4	0.47	0	0	0	0	0	0
12/12/2024 13:10	54206	PENN_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
12/12/2024 13:12	54206	PENN_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
12/12/2024 13:16	21202	ECAR_T2	6	0	-6	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/12/2024 13:16	21206	ECAR_T2	2	2	0	3.75	3.7	-0.05	0	0	0	0	0	0	0	0
12/12/2024 13:16	21204	ECAR_T2	1	1	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
12/12/2024 13:19	43106	SMIL_T2	0	0	0	0	0	0	-1.05	-0.98	2	2	0	2400	2400	0
12/12/2024 13:19	64101	REFR_T1	1	2	1	0.1	0.35	0.25	-0.05	-0.06	0	0	0	0	0	0
12/12/2024 13:19	43103	SMIL_T2	5	4	-1	0.54	0.28	-0.26	0	0	0	0	0	0	0	0
12/12/2024 13:19	43105	SMIL_T2	6	8	2	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
12/12/2024 13:19	43102	SMIL_T2	6	6	0	0.82	0.93	0.11	0	0	0	0	0	0	0	0
12/12/2024 13:19	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 13:20	60504	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/12/2024 13:20	60502	NMAN_T2	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
12/12/2024 13:21	60504	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/12/2024 13:21	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 13:23	60504	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/12/2024 13:23	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 13:29	11303	EMMA_T1	4	3	-1	0.33	0.4	0.07	0	0	0	0	0	0	0	0
12/12/2024 13:29	11301	EMMA_T1	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
12/12/2024 13:31	11301	EMMA_T1	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
12/12/2024 13:31	11303	EMMA_T1	3	3	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/12/2024 13:33	40101	HUNT_T2	19	22	3	0.51	0.62	0.11	0	0	0	0	0	0	0	0
12/12/2024 13:34	54701	NEBL_T1	7	8	1	0.43	0.7	0.27	0	0	1	1	0	600	600	0
12/12/2024 13:34	65503	MOJO_T2	0	0	0	0	0	0	-0.97	-1.02	1	1	0	900	900	0
12/12/2024 13:35	53903	HALI_T2	4	4	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
12/12/2024 13:35	53901	HALI_T2	1	1	0	0.9	0.8	-0.1	-0.95	-0.94	0	0	0	0	0	0
12/12/2024 13:35	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
12/12/2024 13:37	65503	MOJO_T2	0	0	0	0	0	0	-1.02	-1.08	1	1	0	900	900	0
12/12/2024 13:37	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 13:39	46802	HEPB_T1	1	1	0	0.8	0.8	0	-0.11	-0.15	0	0	0	0	0	0
12/12/2024 13:48	46102	MACI_T1	1	1	0	3.6	0	-3.6	0.7	0.66	0	0	0	0	0	0
12/12/2024 13:48	46101	MACI_T2	0	0	0	0	0	0	0.26	0.01	1	1	0	1200	1200	0
12/12/2024 13:49	17002	RIRO_T2	2	1	-1	0.7	1	0.3	0.63	0.7	0	0	0	0	0	0
12/12/2024 13:52	64101	REFR_T1	2	2	0	0.3	0.3	0	-0.04	-0.04	0	0	0	0	0	0
12/12/2024 13:52	57205	ROSS_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
12/12/2024 13:52	57201	ROSS_T1	1	0	-1	0.1	0	-0.1	-0.67	-0.5	0	0	0	0	0	0
12/12/2024 13:53	57201	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/12/2024 13:53	57205	ROSS_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
12/12/2024 13:53	57203	ROSS_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
12/12/2024 13:54	57201	ROSS_T1	1	0	-1	0.1	0	-0.1	-0.67	-0.5	0	0	0	0	0	0
12/12/2024 13:54	57205	ROSS_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
12/12/2024 13:56	46504	LOHA_T1	2	2	0	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
12/12/2024 13:56	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
12/12/2024 13:56	46506	LOHA_T1	3	3	0	2.83	2.63	-0.2	0	0	0	0	0	0	0	0
12/12/2024 13:56	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 13:58	61703	ELIZ_T1	0	0	0	0	0	0	-1.93	-2.1	1	1	0	900	900	0
12/12/2024 13:58	61701	ELIZ_T1	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
12/12/2024 13:59	57201	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/12/2024 13:59	57203	ROSS_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
12/12/2024 13:59	57205	ROSS_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
12/12/2024 14:03	43105	SMIL_T2	5	16	11	0.2	0.26	0.06	0	0	0	0	0	0	0	0
12/12/2024 14:03	24105	EHAZ_T1	4	4	0	6.93	7	0.07	0	0	0	0	0	0	0	0
12/12/2024 14:03	24101	EHAZ_T1	26	44	18	0.77	0.72	-0.05	0	0	0	0	0	0	0	0
12/12/2024 14:03	24102	EHAZ_T1	3	1	-2	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
12/12/2024 14:03	43102	SMIL_T2	5	7	2	0.82	0.71	-0.11	0	0	0	0	0	0	0	0
12/12/2024 14:03	24103	EHAZ_T1	0	12	12	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 14:03	24104	EHAZ_T1	0	0	0	0	0	0	-0.8	-0.84	1	1	0	1200	1200	0
12/12/2024 14:03	43103	SMIL_T2	4	4	0	0.28	0.65	0.37	0	0	0	0	0	0	0	0
12/12/2024 14:03	43108	SMIL_T2	0	0	0	0	0	0	-1.28	-1.26	1	1	0	1200	1200	0
12/12/2024 14:06	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 14:06	21202	ECAR_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 14:06	21206	ECAR_T2	2	2	0	3.65	7.2	3.55	0.33	0.34	0	0	0	0	0	0
12/12/2024 14:07	64204	KINZ_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
12/12/2024 14:07	64201	KINZ_T1	0	0	0	0	0	0	0.07	0.14	3	3	0	1500	1500	0
12/12/2024 14:07	21206	ECAR_T2	2	2	0	3.65	7.2	3.55	0.33	0.34	0	0	0	0	0	0
12/12/2024 14:07	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/12/2024 14:07	21202	ECAR_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 14:08	64101	REFR_T1	2	2	0	0.25	0.3	0.05	-0.04	-0.04	0	0	0	0	0	0
12/12/2024 14:09	52004	LING_T2	2	2	0	3.7	3.7	0	0.06	0.05	0	0	0	0	0	0
12/12/2024 14:15	45802	HEGI_T2	9	12	3	0.4	0.34	-0.06	0.61	0.69	1	1	0	900	900	0
12/12/2024 14:16	67402	WAKE_T2	0	1	1	0	0.2	0.2	1.08	1.11	0	0	0	0	0	0
12/12/2024 14:16	67401	WAKE_T2	0	47	47	0	0.3	0.3	0	0	0	0	0	0	0	0
12/12/2024 14:27	16102	BING_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
12/12/2024 14:29	16102	BING_T2	1	1	0	0.2	0.6	0.4	-0.03	0	0	0	0	0	0	0
12/12/2024 14:30	54505	ENOL_T2	1	1	0	0.9	1	0.1	-1.29	-1.24	1	1	0	600	600	0
12/12/2024 14:30	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/12/2024 14:30	54506	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/12/2024 14:31	41205	KENM_T2	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
12/12/2024 14:31	67402	WAKE_T2	0	1	1	0	0.2	0.2	1.11	0.27	0	0	0	0	0	0
12/12/2024 14:31	41202	KENM_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
12/12/2024 14:31	40701	FFLD_T1	33	45	12	0.6	0.74	0.14	0	0	0	0	0	0	0	0
12/12/2024 14:31	40703	FFLD_T1	4	4	0	0.4	0.75	0.35	0	0	0	0	0	0	0	0
12/12/2024 14:31	67401	WAKE_T2	5	49	44	0.1	0.3	0.2	0	0	0	0	0	0	0	0
12/12/2024 14:31	40702	FFLD_T1	4	84	80	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
12/12/2024 14:32	54505	ENOL_T2	1	1	0	0.9	1	0.1	-1.29	-1.24	1	1	0	600	600	0
12/12/2024 14:32	54506	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/12/2024 14:32	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/12/2024 14:34	54504	ENOL_T2	0	0	0	0	0	0	-1.05	-1.08	1	1	0	600	600	0
12/12/2024 14:34	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 14:34	54506	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/12/2024 14:34	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/12/2024 14:34	21206	ECAR_T2	1	2	1	7.2	7.7	0.5	0.34	0.36	0	0	0	0	0	0
12/12/2024 14:34	21202	ECAR_T2	3	4	1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
12/12/2024 14:34	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
12/12/2024 14:35	22602	KIMB_T1	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
12/12/2024 14:38	53901	HALI_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
12/12/2024 14:38	60502	NMAN_T2	0	0	0	0	0	0	-0.25	-0.12	0	0	0	0	0	0
12/12/2024 14:38	60504	NMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
12/12/2024 14:38	53903	HALI_T2	2	2	0	1.35	1.5	0.15	0	0	0	0	0	0	0	0
12/12/2024 14:38	60501	NMAN_T2	0	20	20	0	0.13	0.13	0	0	0	0	0	0	0	0
12/12/2024 14:38	53902	HALI_T2	1	1	0	4.9	5.7	0.8	0	0	0	0	0	0	0	0
12/12/2024 14:43	62102	ELAN_T1	1	0	-1	0.1	0	-0.1	0.62	0.63	0	0	0	0	0	0
12/12/2024 14:58	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 14:58	59101	WALK_T2	0	0	0	0	0	0	1.91	1.69	0	0	0	0	0	0
12/12/2024 15:01	41202	KENM_T2	1	1	0	0.5	0.2	-0.3	-0.45	-0.49	0	0	0	0	0	0
12/12/2024 15:08	58101	NEKI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/12/2024 15:08	58102	NEKI_T1	1	1	0	1.6	1.4	-0.2	0.31	0.28	0	0	0	0	0	0
12/12/2024 15:12	54203	PENN_T1	19	18	-1	1.04	0.95	-0.09	0.66	0.66	0	0	0	0	0	0
12/12/2024 15:12	54201	PENN_T1	9	9	0	0.71	0.59	-0.12	0	0	0	0	0	0	0	0
12/12/2024 15:13	67101	SPRI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/12/2024 15:13	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 15:15	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 15:19	61103	BERK_T5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 15:22	57203	ROSS_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
12/12/2024 15:33	14801	TREI_T2	0	0	0	0	0	0	0.47	0.54	0	0	0	0	0	0
12/12/2024 15:36	64802	MONE_T2	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
12/12/2024 15:45	14201	EALL_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
12/12/2024 15:47	14201	EALL_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
12/12/2024 15:52	45002	LIME_2	1	1	0	3.3	4	0.7	0	0	0	0	0	0	0	0
12/12/2024 15:52	45001	LIME_2	1	3	2	0.9	0.45	-0.45	0	0	0	0	0	0	0	0
12/12/2024 15:52	45003	LIME_2	1	4	3	2.8	1.5	-1.3	0.32	0.31	0	0	0	0	0	0
12/12/2024 15:55	57201	ROSS_T1	0	0	0	0	0	0	-0.51	-0.36	0	0	0	0	0	0
12/12/2024 16:50	57106	SPHI_T2	3	3	0	1.87	1.6	-0.27	0	0	0	0	0	0	0	0
12/12/2024 16:50	57103	SPHI_T2	0	0	0	0	0	0	-0.85	-0.84	1	1	0	600	600	0
12/12/2024 16:50	57101	SPHI_T2	6	0	-6	0.52	0	-0.52	0	0	0	0	0	0	0	0
12/12/2024 16:50	57104	SPHI_T2	2	2	0	5.6	3.15	-2.45	0	0	0	0	0	0	0	0
12/12/2024 18:12	66902	SHIL_T2	0	0	0	0	0	0	-3.9	-3.84	0	0	0	0	0	0
12/12/2024 18:33	17002	RIRO_T2	15	21	6	0.16	0.17	0.01	0.36	0.41	0	0	0	0	0	0
12/12/2024 18:35	21202	ECAR_T2	8	7	-1	1.39	0.74	-0.65	0	0	0	0	0	0	0	0
12/12/2024 18:35	48901	FOSP_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
12/12/2024 18:35	21204	ECAR_T2	4	5	1	1	0.77	-0.23	0	0	0	0	0	0	0	0
12/12/2024 18:35	21206	ECAR_T2	2	2	0	3.75	3.65	-0.1	0.43	0.45	0	0	0	0	0	0
12/12/2024 18:36	61701	ELIZ_T1	1	1	0	5	5.2	0.2	0.31	0.31	0	0	0	0	0	0
12/12/2024 18:36	67703	WERN_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/12/2024 18:36	67702	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:37	10705	CATA_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/12/2024 18:37	14201	EALL_T1	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
12/12/2024 18:38	24101	EHAZ_T1	36	41	5	1.23	1.34	0.11	0	0	0	0	0	0	0	0
12/12/2024 18:38	24102	EHAZ_T1	21	28	7	1.02	0.7	-0.32	0	0	0	0	0	0	0	0
12/12/2024 18:38	24105	EHAZ_T1	16	23	7	1.96	2.14	0.18	-1.93	-1.92	1	1	0	1200	1200	0
12/12/2024 18:39	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
12/12/2024 18:39	66903	SHIL_T2	0	0	0	0	0	0	-0.99	-1	0	0	0	0	0	0
12/12/2024 18:39	14201	EALL_T1	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
12/12/2024 18:39	45902	AUBU_T1	3	4	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/12/2024 18:39	46004	BERW_T2	12	11	-1	0.83	1.3	0.47	0	0	0	0	0	0	0	0
12/12/2024 18:39	16102	BING_T2	1	1	0	0.9	0.6	-0.3	-0.05	-0.04	0	0	0	0	0	0
12/12/2024 18:39	57702	PAXT_T1	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
12/12/2024 18:39	67703	WERN_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/12/2024 18:39	46002	BERW_T2	0	0	0	0	0	0	-0.99	-0.99	1	1	0	900	900	0
12/12/2024 18:39	67702	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:39	10705	CATA_T2	1	1	0	0.6	0	-0.6	-0.8	-0.77	1	1	0	900	900	0
12/12/2024 18:40	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
12/12/2024 18:40	52004	LING_T2	2	3	1	2.75	1.93	-0.82	0.09	0.11	0	0	0	0	0	0
12/12/2024 18:40	67002	STHI_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
12/12/2024 18:40	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
12/12/2024 18:40	21901	HUMB_T1	0	0	0	0	0	0	-1.6	-1.57	0	0	0	0	0	0
12/12/2024 18:41	11302	EMMA_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:41	61103	BERK_T5	0	1	1	0	0.1	0.1	0.04	0.03	0	0	0	0	0	0
12/12/2024 18:41	45902	AUBU_T1	3	4	1	0.4	0	-0.4	0.01	0.01	2	2	0	1200	1200	0
12/12/2024 18:41	10705	CATA_T2	1	1	0	0.6	0	-0.6	-2.4	-2.31	3	3	0	2700	2700	0
12/12/2024 18:41	44201	POIN_T1	26	27	1	0.17	0.13	-0.04	-2.21	-2.28	2	2	0	2100	2100	0
12/12/2024 18:41	10801	OHHI_T1	0	0	0	0	0	0	-1.29	-1.31	2	2	0	1500	1500	0
12/12/2024 18:41	11301	EMMA_T1	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
12/12/2024 18:41	41202	KENM_T2	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
12/12/2024 18:41	64101	REFR_T1	0	0	0	0	0	0	0.04	0.07	0	0	0	0	0	0
12/12/2024 18:41	63501	HEID_T8K1-2	2	28	26	0.55	0.2	-0.35	-0.45	-0.44	1	1	0	900	900	0
12/12/2024 18:41	10805	OHHI_T2	7	7	0	2.04	1.73	-0.31	-0.78	-0.85	1	1	0	600	600	0
12/12/2024 18:41	61102	BERK_T5	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/12/2024 18:41	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:41	10701	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:41	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:41	67002	STHI_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
12/12/2024 18:41	66901	SHIL_T2	0	0	0	0	0	0	-0.29	-0.35	0	0	0	0	0	0
12/12/2024 18:41	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
12/12/2024 18:42	47203	FAXO_T2	1	1	0	0.4	0.1	-0.3	-0.97	-0.98	0	0	0	0	0	0
12/12/2024 18:42	21202	ECAR_T2	8	7	-1	1.39	0.74	-0.65	0	0	0	0	0	0	0	0
12/12/2024 18:42	21204	ECAR_T2	4	5	1	1	0.77	-0.23	0	0	0	0	0	0	0	0
12/12/2024 18:42	21206	ECAR_T2	2	2	0	3.75	3.65	-0.1	0.45	0.5	0	0	0	0	0	0
12/12/2024 18:42	44801	EDAN_T2	2	2	0	3.5	0.4	-3.1	0	0	0	0	0	0	0	0
12/12/2024 18:42	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:42	44802	EDAN_T2	0	0	0	0	0	0	-2.11	-2.1	0	0	0	0	0	0
12/12/2024 18:42	44901	SCOT_T2	0	0	0	0	0	0	-0.05	0.02	0	0	0	0	0	0
12/12/2024 18:42	40101	HUNT_T2	498	487	-11	1.49	1.08	-0.41	-1.52	-1.53	0	0	0	0	0	0
12/12/2024 18:43	60101	COCA_T1	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0	0
12/12/2024 18:43	42502	ALTA_T2	4	5	1	0.13	0.16	0.03	0	0	0	0	0	0	0	0
12/12/2024 18:43	67002	STHI_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
12/12/2024 18:43	45902	AUBU_T1	3	4	1	0.4	0	-0.4	0.01	0.01	2	2	0	1200	1200	0
12/12/2024 18:43	14801	TREI_T2	1	0	-1	0.5	0	-0.5	0.77	0.74	0	0	0	0	0	0
12/12/2024 18:43	42504	ALTA_T2	2	3	1	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
12/12/2024 18:43	14203	EALL_T1	0	0	0	0	0	0	-0.42	-0.42	1	1	0	1200	1200	0
12/12/2024 18:43	42503	ALTA_T2	29	42	13	0.21	0.22	0.01	0	0	0	0	0	0	0	0
12/12/2024 18:43	14205	EALL_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
12/12/2024 18:43	10705	CATA_T2	1	1	0	0.6	0	-0.6	-0.8	-0.77	1	1	0	900	900	0
12/12/2024 18:43	48901	FOSP_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
12/12/2024 18:43	57104	SPHI_T2	3	4	1	5.2	3.35	-1.85	-1.79	-1.76	1	1	0	900	900	0
12/12/2024 18:43	57106	SPHI_T2	3	3	0	1.13	1.17	0.04	0	0	0	0	0	0	0	0
12/12/2024 18:43	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:43	42501	ALTA_T2	37	38	1	0.2	0.24	0.04	0.18	0.28	2	2	0	1200	1200	0
12/12/2024 18:43	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
12/12/2024 18:43	48302	ORWI_T2	2	2	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
12/12/2024 18:43	14603	SWHI_T1	0	0	0	0	0	0	-0.86	-0.88	1	1	0	600	600	0
12/12/2024 18:43	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:43	41205	KENM_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
12/12/2024 18:43	44201	POIN_T1	26	27	1	0.17	0.13	-0.04	-2.21	-2.28	2	2	0	2100	2100	0
12/12/2024 18:44	45902	AUBU_T1	3	4	1	0.4	0	-0.4	0.01	0.01	1	1	0	600	600	0
12/12/2024 18:44	67703	WERN_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/12/2024 18:44	67702	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:44	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:44	45501	DERR_T2	5	7	2	0.6	1.45	0.85	0.82	0.78	4	4	0	3600	3600	0
12/12/2024 18:44	46204	DANV_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
12/12/2024 18:44	48901	FOSP_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
12/12/2024 18:44	54203	PENN_T1	18	18	0	0.46	0.51	0.05	-0.03	0.02	1	1	0	600	600	0
12/12/2024 18:44	46206	DANV_T2	0	0	0	0	0	0	1.66	1.62	2	2	0	2100	2100	0
12/12/2024 18:44	46203	DANV_T2	7	7	0	0.41	0.57	0.16	0	0	0	0	0	0	0	0
12/12/2024 18:44	45502	DERR_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/12/2024 18:44	61103	BERK_T5	0	1	1	0	0.1	0.1	0.04	0.03	0	0	0	0	0	0
12/12/2024 18:44	63601	LETO_T1	0	0	0	0	0	0	1.33	1.48	1	1	0	900	900	0
12/12/2024 18:44	61102	BERK_T5	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/12/2024 18:44	54201	PENN_T1	3	4	1	0.33	0.35	0.02	0	0	0	0	0	0	0	0
12/12/2024 18:44	60701	BREC_T1	0	0	0	0	0	0	-1.03	-1.03	3	3	0	1800	1800	0
12/12/2024 18:45	53302	GRAT_T2	6	7	1	1.07	0.92	-0.15	0	0	0	0	0	0	0	0
12/12/2024 18:45	46204	DANV_T2	3	4	1	0.53	0.35	-0.18	0	0	0	0	0	0	0	0
12/12/2024 18:45	54203	PENN_T1	18	18	0	0.51	0.51	0	0	0	0	0	0	0	0	0
12/12/2024 18:45	55002	NEWP_T1	2	2	0	0.4	0.2	-0.2	-0.18	-0.14	0	0	0	0	0	0
12/12/2024 18:45	63501	HEID_T8K1-2	23	29	6	0.21	0.23	0.02	-0.45	-0.44	1	1	0	900	900	0
12/12/2024 18:45	64203	KINZ_T1	4	0	-4	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/12/2024 18:45	57104	SPHI_T2	2	3	1	4.5	2.35	-2.15	-1.79	-1.76	1	1	0	900	900	0
12/12/2024 18:45	54201	PENN_T1	4	3	-1	0.3	0.5	0.2	0.82	0.82	0	0	0	0	0	0
12/12/2024 18:45	46206	DANV_T2	0	1	1	0	0	0	1.66	1.62	2	2	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/12/2024 18:45	57106	SPHI_T2	3	3	0	1.17	1.23	0.06	0	0	0	0	0	0	0	0
12/12/2024 18:45	44802	EDAN_T2	0	0	0	0	0	0	-2.11	-2.1	0	0	0	0	0	0
12/12/2024 18:45	22601	KIMB_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/12/2024 18:45	44801	EDAN_T2	2	1	-1	3.35	0.3	-3.05	0	0	0	0	0	0	0	0
12/12/2024 18:45	62105	ELAN_T1	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
12/12/2024 18:45	43301	WATS_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
12/12/2024 18:45	64603	LEOL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:45	10707	CATA_T2	0	0	0	0	0	0	0.61	0.54	0	0	0	0	0	0
12/12/2024 18:45	10705	CATA_T2	1	0	-1	0.9	0	-0.9	-1.6	-1.54	2	2	0	1800	1800	0
12/12/2024 18:45	64204	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
12/12/2024 18:45	67001	STHI_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
12/12/2024 18:45	60502	NMAN_T2	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
12/12/2024 18:45	46203	DANV_T2	7	7	0	0.54	0.5	-0.04	0	0	0	0	0	0	0	0
12/12/2024 18:45	64602	LEOL_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
12/12/2024 18:45	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
12/12/2024 18:45	62106	ELAN_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
12/12/2024 18:45	64201	KINZ_T1	4	5	1	0.33	0.1	-0.23	-0.25	-0.25	3	3	0	1500	1500	0
12/12/2024 18:45	67002	STHI_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
12/12/2024 18:45	43304	WATS_T2	4	3	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
12/12/2024 18:46	64101	REFR_T1	0	0	0	0	0	0	0.04	0.07	0	0	0	0	0	0
12/12/2024 18:46	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:46	43103	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:46	43101	SMIL_T2	2	3	1	2.1	1.05	-1.05	0	0	0	0	0	0	0	0
12/12/2024 18:46	43105	SMIL_T2	1	0	-1	5.9	0	-5.9	0	0	0	0	0	0	0	0
12/12/2024 18:46	59101	WALK_T2	0	0	0	0	0	0	0.85	0.89	1	1	0	600	600	0
12/12/2024 18:46	43102	SMIL_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
12/12/2024 18:46	67605	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:46	60101	COCA_T1	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0	0
12/12/2024 18:46	57203	ROSS_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
12/12/2024 18:46	57205	ROSS_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
12/12/2024 18:46	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:46	67001	STHI_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
12/12/2024 18:46	24202	PROV_T4	0	0	0	0	0	0	-0.73	-0.72	1	1	0	1200	1200	0
12/12/2024 18:46	63501	HEID_TBK1-2	23	29	6	0.21	0.23	0.02	-0.45	-0.44	1	1	0	900	900	0
12/12/2024 18:46	65207	PRIN_T4	3	2	-1	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
12/12/2024 18:46	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:46	24206	PROV_T4	0	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0
12/12/2024 18:46	67603	WARW_T1	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
12/12/2024 18:46	43108	SMIL_T2	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
12/12/2024 18:46	67002	STHI_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
12/12/2024 18:46	60102	COCA_T1	0	0	0	0	0	0	-0.85	-0.63	3	3	0	2100	2100	0
12/12/2024 18:46	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
12/12/2024 18:46	46602	LACR_T1	0	0	0	0	0	0	-1	-0.97	0	0	0	0	0	0
12/12/2024 18:47	16102	BING_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
12/12/2024 18:47	44801	EDAN_T2	2	1	-1	3.35	0.3	-3.05	0	0	0	0	0	0	0	0
12/12/2024 18:47	66505	SMAN_T2	4	3	-1	0.4	0.63	0.23	0	0	0	0	0	0	0	0
12/12/2024 18:47	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
12/12/2024 18:47	53501	EVIL_T2	1	1	0	0.2	0.2	0	-1.49	-1.45	2	2	0	1200	1200	0
12/12/2024 18:47	41801	GOCI_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:47	67703	WERN_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/12/2024 18:47	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:47	13101	NHAM_T1	1	4	3	0.2	0.1	-0.1	-3.86	-3.92	4	4	0	4200	4200	0
12/12/2024 18:47	10705	CATA_T2	1	0	-1	0.9	0	-0.9	-1.6	-1.54	2	2	0	1800	1800	0
12/12/2024 18:47	54501	ENOL_T2	0	0	0	0	0	0	-0.49	-0.48	1	1	0	600	600	0
12/12/2024 18:47	53502	EVIL_T2	0	11	11	0	0.34	0.34	0	0	0	0	0	0	0	0
12/12/2024 18:47	54203	PENN_T1	18	18	0	0.51	0.51	0	0	0	0	0	0	0	0	0
12/12/2024 18:47	44802	EDAN_T2	0	0	0	0	0	0	-2.11	-2.1	0	0	0	0	0	0
12/12/2024 18:47	67702	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/12/2024 18:47	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:47	64101	REFR_T1	0	0	0	0	0	0	0.04	0.07	0	0	0	0	0	0
12/12/2024 18:47	60502	NMAN_T2	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
12/12/2024 18:47	54505	ENOL_T2	0	0	0	0	0	0	-1.07	-1.09	1	1	0	600	600	0
12/12/2024 18:47	10801	CHHI_T1	0	0	0	0	0	0	-1.29	-1.31	2	2	0	1500	1500	0
12/12/2024 18:47	54201	PENN_T1	4	3	-1	0.3	0.5	0.2	0.82	0.82	0	0	0	0	0	0
12/12/2024 18:47	65503	MOJO_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
12/12/2024 18:47	46101	MACI_T2	0	0	0	0	0	0	-0.51	-0.51	1	1	0	1200	1200	0
12/12/2024 18:47	22601	KIMB_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/12/2024 18:47	54506	ENOL_T2	0	0	0	0	0	0	0.37	0.51	0	0	0	0	0	0
12/12/2024 18:47	14603	SWHI_T1	0	0	0	0	0	0	-0.86	-0.88	1	1	0	600	600	0
12/12/2024 18:47	14601	SWHI_T1	0	0	0	0	0	0	-1.44	-1.42	0	0	0	0	0	0
12/12/2024 18:48	43102	SMIL_T2	0	4	4	0	0.1	0.1	-0.8	-0.82	1	1	0	600	600	0
12/12/2024 18:48	43103	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:48	43105	SMIL_T2	1	0	-1	5.9	0	-5.9	0	0	0	0	0	0	0	0
12/12/2024 18:48	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:48	40703	FFLD_T1	4	4	0	0.33	0.55	0.22	0	0	0	0	0	0	0	0
12/12/2024 18:48	54601	SUMM_T2	0	0	0	0	0	0	-1.74	-1.75	2	2	0	2100	2100	0
12/12/2024 18:48	57104	SPHI_T2	2	3	1	4.5	2.35	-2.15	-1.79	-1.76	1	1	0	900	900	0
12/12/2024 18:48	43101	SMIL_T2	2	3	1	2.1	1.05	-1.05	0	0	0	0	0	0	0	0
12/12/2024 18:48	63804	HEMP_T1	1	8	7	6.7	6.3	-0.4	0	0	0	0	0	0	0	0
12/12/2024 18:48	55002	NEWP_T1	2	2	0	0.4	0.2	-0.2	-0.36	-0.28	0	0	0	0	0	0
12/12/2024 18:48	57702	PAXT_T1	0	0	0	0	0	0	-0.74	-0.74	0	0	0	0	0	0
12/12/2024 18:48	45502	DERR_T2	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
12/12/2024 18:48	67703	WERN_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/12/2024 18:48	40702	FFLD_T1	23	96	73	0.27	0.28	0.01	0	0	0	0	0	0	0	0
12/12/2024 18:48	67605	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:48	40602	PIGR_T1	1	1	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
12/12/2024 18:48	55405	SHER_T1	5	5	0	0.86	1	0.14	0	0	0	0	0	0	0	0
12/12/2024 18:48	40101	HUNT_T2	454	512	58	1.31	1.07	-0.24	-1.52	-1.53	0	0	0	0	0	0
12/12/2024 18:48	40603	PIGR_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
12/12/2024 18:48	63601	LETO_T1	0	0	0	0	0	0	1.33	1.48	1	1	0	900	900	0
12/12/2024 18:48	67704	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/12/2024 18:48	40701	FFLD_T1	25	32	7	0.4	0.59	0.19	0	0	0	0	0	0	0	0
12/12/2024 18:48	57106	SPHI_T2	3	3	0	1.17	1.23	0.06	0	0	0	0	0	0	0	0
12/12/2024 18:48	63501	HEID_TBK1-2	23	29	6	0.21	0.23	0.02	-0.45	-0.44	1	1	0	900	900	0
12/12/2024 18:48	45501	DERR_T2	7	4	-3	0.94	1.45	0.51	0.41	0.39	2	2	0	1800	1800	0
12/12/2024 18:48	64802	MONE_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
12/12/2024 18:48	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:48	63803	HEMP_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
12/12/2024 18:49	44802	EDAN_T2	0	0	0	0	0	0	-2.11	-2.1	0	0	0	0	0	0
12/12/2024 18:49	10705	CATA_T2	1	0	-1	0.9	0	-0.9	-2.4	-2.31	3	3	0	2700	2700	0
12/12/2024 18:49	61102	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/12/2024 18:49	44801	EDAN_T2	2	1	-1	3.35	0.3	-3.05	0	0	0	0	0	0	0	0
12/12/2024 18:49	46102	MACI_T1	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
12/12/2024 18:49	44505	HAMI_T2	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
12/12/2024 18:49	14204	EALL_T2	0	0	0	0	0	0	0.32	0.21	0	0	0	0	0	0
12/12/2024 18:49	44502	HAMI_T2	1	1	0	2.8	2.8	0	0	0	0	0	0	0	0	0
12/12/2024 18:49	14205	EALL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:49	54203	PENN_T1	18	18	0	0.51	0.51	0	0	0	0	0	0	0	0	0
12/12/2024 18:49	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/12/2024 18:49	60801	BUCK_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
12/12/2024 18:49	10801	CHHI_T1	0	0	0	0	0	0	-1.29	-1.31	2	2	0	1500	1500	0
12/12/2024 18:49	52004	LING_T2	3	3	0	1.93	2.75	0.82	0.09	0.11	0	0	0	0	0	0
12/12/2024 18:49	54201	PENN_T1	4	3	-1	0.3	0.5	0.2	0.82	0.82	0	0	0	0	0	0
12/12/2024 18:49	54701	NEBL_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	600	600	0
12/12/2024 18:49	61103	BERK_T5	1	0	-1	0.1	0	-0.1	0.04	0.03	0	0	0	0	0	0
12/12/2024 18:49	60701	BREC_T1	0	0	0	0	0	0	-0.34	-0.34	1	1	0	600	600	0
12/12/2024 18:49	10805	CHHI_T2	7	10	3	1.73	2.31	0.58	-0.78	-0.85	1	1	0	600	600	0
12/12/2024 18:50	53902	HALI_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
12/12/2024 18:50	57201	ROSS_T1	0	0	0	0	0	0	-0.79	-0.83	0	0	0	0	0	0
12/12/2024 18:50	24102	EHAZ_T1	23	28	5	0.7	0.41	-0.29	0	0	0	0	0	0	0	0
12/12/2024 18:50	57704	PAXT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:50	53903	HALI_T2	2	2	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
12/12/2024 18:50	55002	NEWP_T1	2	2	0	0.4	0.2	-0.2	-0.18	-0.14	0	0	0	0	0	0
12/12/2024 18:50	40101	HUNT_T2	454	512	58	1.31	1.07	-0.24	-1.52	-1.53	0	0	0	0	0	0
12/12/2024 18:50	20601	GRWO_T2	9	3	-6	0.66	0.53	-0.13	0	0	0	0	0	0	0	0
12/12/2024 18:50	24101	EHAZ_T1	39	41	2	1.36	0.7	-0.66	0	0	0	0	0	0	0	0
12/12/2024 18:50	46501	LOHA_T1	6	10	4	0.92	0.9	-0.02	0	0	0	0	0	0	0	0
12/12/2024 18:50	57703	PAXT_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:50	44505	HAMI_T2	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
12/12/2024 18:50	60201	ATGL_T2	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
12/12/2024 18:50	44502	HAMI_T2	1	1	0	2.8	2.8	0	0	0	0	0	0	0	0	0
12/12/2024 18:50	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:50	61103	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/12/2024 18:50	24104	EHAZ_T1	0	0	0	0	0	0	-0.8	-0.8	1	1	0	1200	1200	0
12/12/2024 18:50	67702	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/12/2024 18:50	61102	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/12/2024 18:50	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
12/12/2024 18:50	67703	WERN_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/12/2024 18:50	53901	HALI_T2	0	0	0	0	0	0	-1.26	-1.3	0	0	0	0	0	0
12/12/2024 18:50	48901	FOSP_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
12/12/2024 18:50	20603	GRWO_T2	20	18	-2	1.69	0	-1.69	1	0.96	0	0	0	0	0	0
12/12/2024 18:50	46506	LOHA_T1	4	3	-1	0.8	0.87	0.07	0	0	0	0	0	0	0	0
12/12/2024 18:50	24105	EHAZ_T1	16	23	7	2.14	2.39	0.25	0	0	0	0	0	0	0	0
12/12/2024 18:51	65202	PRIN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/12/2024 18:51	40101	HUNT_T2	454	512	58	1.31	1.07	-0.24	-1.53	-1.49	0	0	0	0	0	0
12/12/2024 18:51	67402	WAKE_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
12/12/2024 18:51	11302	EMMA_T1	0	3	3	0	1	1	0	0	0	0	0	0	0	0
12/12/2024 18:51	54503	ENOL_T2	0	0	0	0	0	0	-0.33	-0.33	1	1	0	600	600	0
12/12/2024 18:51	67703	WERN_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/12/2024 18:51	61001	DONV_T1	0	0	0	0	0	0	-0.21	-0.26	0	0	0	0	0	0
12/12/2024 18:51	10705	CATA_T2	1	0	-1	0.9	0	-0.9	-0.8	-0.77	1	1	0	900	900	0
12/12/2024 18:51	45501	DERR_T2	7	4	-3	0.94	1.45	0.51	0.39	0.42	2	2	0	1800	1800	0
12/12/2024 18:51	54504	ENOL_T2	0	0	0	0	0	0	-0.99	-1.01	1	1	0	600	600	0
12/12/2024 18:51	48901	FOSP_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
12/12/2024 18:51	46204	DANV_T2	3	4	1	0.53	0.35	-0.18	0	0	0	0	0	0	0	0
12/12/2024 18:51	67605	WARW_T1	0	1	1	0	0	0	-0.94	-1.02	0	0	0	0	0	0
12/12/2024 18:51	64101	REFR_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
12/12/2024 18:51	54201	PENN_T1	4	3	-1	0.3	0.5	0.2	0.82	0.82	0	0	0	0	0	0
12/12/2024 18:51	65205	PRIN_T1	1	3	2	1.3	0.7	-0.6	0	0	0	0	0	0	0	0
12/12/2024 18:51	46203	DANV_T2	7	7	0	0.54	0.5	-0.04	0	0	0	0	0	0	0	0
12/12/2024 18:51	46206	DANV_T2	0	1	1	0	0	0	1.62	1.6	2	2	0	2100	2100	0
12/12/2024 18:51	45502	DERR_T2	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
12/12/2024 18:51	65503	MOJO_T2	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/12/2024 18:51	40201	BEGA_T2	9	25	16	0.68	0.2	-0.48	0	0	0	0	0	0	0	0
12/12/2024 18:51	67702	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/12/2024 18:51	54206	PENN_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
12/12/2024 18:51	11301	EMMA_T1	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
12/12/2024 18:51	67001	STHI_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
12/12/2024 18:51	67002	STHI_T2	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
12/12/2024 18:51	60701	BREC_T1	0	0	0	0	0	0	-0.69	-0.73	2	2	0	1200	1200	0
12/12/2024 18:51	54203	PENN_T1	18	18	0	0.51	0.51	0	-0.03	0.02	1	1	0	600	600	0
12/12/2024 18:52	61103	BERK_T5	1	0	-1	0.1	0	-0.1	0.03	0.03	0	0	0	0	0	0
12/12/2024 18:52	57106	SPHI_T2	3	3	0	1.17	1.23	0.06	0	0	0	0	0	0	0	0
12/12/2024 18:52	66505	SMAN_T2	4	3	-1	0.4	0.63	0.23	-0.32	-0.34	1	1	0	900	900	0
12/12/2024 18:52	54203	PENN_T1	18	18	0	0.51	0.51	0	0.02	-0.02	1	1	0	600	600	0
12/12/2024 18:52	57104	SPHI_T2	2	3	1	4.5	2.35	-2.15	-1.76	-1.82	1	1	0	900	900	0
12/12/2024 18:52	52001	LING_T1	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
12/12/2024 18:52	54601	SUMM_T2	0	0	0	0	0	0	-1.75	-1.76	2	2	0	2100	2100	0
12/12/2024 18:52	53502	EVIL_T2	0	11	11	0	0.34	0.34	0	0	0	0	0	0	0	0
12/12/2024 18:52	61703	ELIZ_T1	0	0	0	0	0	0	-2.48	-2.44	2	2	0	2100	2100	0
12/12/2024 18:52	41002	LAUR_T2	3	3	0	0.53	0.47	-0.06	-0.85	-0.84	0	0	0	0	0	0
12/12/2024 18:52	61102	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/12/2024 18:52	60701	BREC_T1	0	0	0	0	0	0	-0.34	-0.36	1	1	0	600	600	0
12/12/2024 18:52	45802	HEGI_T2	43	34	-9	0.94	0.53	-0.41	0	0	0	0	0	0	0	0
12/12/2024 18:52	67702	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/12/2024 18:52	41001	LAUR_T2	2	1	-1	0.6	1.1	0.5	0	0	0	0	0	0	0	0
12/12/2024 18:52	53501	EVIL_T2	1	1	0	0.2	0.2	0	-0.72	-0.73	1	1	0	600	600	0
12/12/2024 18:52	61701	ELIZ_T1	1	2	1	5	5.2	0.2	0	0	0	0	0	0	0	0
12/12/2024 18:52	59101	WALK_T2	0	0	0	0	0	0	0.89	0.87	1	1	0	600	600	0
12/12/2024 18:52	54201	PENN_T1	4	3	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/12/2024 18:52	67703	WERN_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/12/2024 18:53	57203	ROSS_T1	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
12/12/2024 18:53	44902	SCOT_T2	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
12/12/2024 18:53	54701	NEBL_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	600	600	0
12/12/2024 18:53	45502	DERR_T2	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
12/12/2024 18:53	45501	DERR_T2	7	4	-3	0.94	1.45	0.51	0.39	0.42	2	2	0	1800	1800	0
12/12/2024 18:53	43101	SMIL_T2	2	3	1	2.1	1.05	-1.05	-0.54	-0.54	0	0	0	0	0	0
12/12/2024 18:53	60101	COCA_T1	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
12/12/2024 18:53	44201	POIN_T1	26	38	12	0.11	0.17	0.06	-2.28	-2.35	2	2	0	2100	2100	0
12/12/2024 18:53	40101	HUNT_T2	454	512	58	1.31	1.07	-0.24	0	0	0	0	0	0	0	0
12/12/2024 18:53	41801	GOCI_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:53	43103	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:53	43102	SMIL_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
12/12/2024 18:53	45802	HEGI_T2	43	34	-9	0.94	0.53	-0.41	-0.11	0	1	1	0	900	900	0
12/12/2024 18:53	43105	SMIL_T2	1	0	-1	5.9	0	-5.9	0	0	0	0	0	0	0	0
12/12/2024 18:53	60701	BREC_T1	0	0	0	0	0	0	-0.34	-0.36	1	1	0	600	600	0
12/12/2024 18:54	44802	EDAN_T2	0	0	0	0	0	0	-2.1	-2.11	0	0	0	0	0	0
12/12/2024 18:54	43106	SMIL_T2	0	0	0	0	0	0	-1.79	-1.8	2	2	0	2400	2400	0
12/12/2024 18:54	44801	EDAN_T2	2	1	-1	3.35	0.3	-3.05	0	0	0	0	0	0	0	0
12/12/2024 18:54	67402	WAKE_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
12/12/2024 18:54	43103	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:54	57201	ROSS_T1	0	0	0	0	0	0	-0.83	-0.77	0	0	0	0	0	0
12/12/2024 18:54	57106	SPHI_T2	3	3	0	1.17	1.23	0.06	0	0	0	0	0	0	0	0
12/12/2024 18:54	40702	FFLD_T1	23	96	73	0.27	0.28	0.01	0	0	0	0	0	0	0	0
12/12/2024 18:54	43101	SMIL_T2	2	3	1	2.1	1.05	-1.05	0	0	0	0	0	0	0	0
12/12/2024 18:54	63501	HEID_TBK1-2	23	29	6	0.21	0.23	0.02	-0.44	-0.43	1	1	0	900	900	0
12/12/2024 18:54	58402	MORO_T1	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/12/2024 18:54	57103	SPHI_T2	0	0	0	0	0	0	-0.82	-0.81	1	1	0	600	600	0
12/12/2024 18:54	64101	REFR_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
12/12/2024 18:54	43102	SMIL_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
12/12/2024 18:54	58401	MORO_T1	1	1	0	0.6	0	-0.6	-0.86	-0.97	1	1	0	600	600	0
12/12/2024 18:54	40703	FFLD_T1	4	4	0	0.33	0.55	0.22	0	0	0	0	0	0	0	0
12/12/2024 18:54	40701	FFLD_T1	25	32	7	0.4	0.59	0.19	0	0	0	0	0	0	0	0
12/12/2024 18:54	43105	SMIL_T2	1	0	-1	5.9	0	-5.9	0	0	0	0	0	0	0	0
12/12/2024 18:54	57104	SPHI_T2	2	3	1	4.5	2.35	-2.15	0	0	0	0	0	0	0	0
12/12/2024 18:55	54505	ENOL_T2	0	0	0	0	0	0	-1.09	-1.06	1	1	0	600	600	0
12/12/2024 18:55	10701	CATA_T2	0	0	0	0	0	0	-0.65	-0.68	0	0	0	0	0	0
12/12/2024 18:55	57701	PAXT_T1	0	0	0	0	0	0	-1.02	-1.02	1	1	0	900	900	0
12/12/2024 18:55	64101	REFR_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
12/12/2024 18:55	57104	SPHI_T2	2	3	1	4.5	2.35	-2.15	-1.76	-1.82	1	1	0	900	900	0
12/12/2024 18:55	44801	EDAN_T2	2	1	-1	3.35	0.3	-3.05	0	0	0	0	0	0	0	0
12/12/2024 18:55	45003	LIME_2	59	60	1	0.79	0.56	-0.23	0	0	0	0	0	0	0	0
12/12/2024 18:55	44802	EDAN_T2	0	0	0	0	0	0	-2.1	-2.11	0	0	0	0	0	0
12/12/2024 18:55	57106	SPHI_T2	3	3	0	1.17	1.23	0.06	0	0	0	0	0	0	0	0
12/12/2024 18:55	58102	NEKI_T1	1	1	0	0.6	0.6	0	0.26	0.34	0	0	0	0	0	0
12/12/2024 18:55	45802	HEGI_T2	43	34	-9	0.94	0.53	-0.41	-0.11	0	1	1	0	900	900	0
12/12/2024 18:55	45001	LIME_2	53	12	-41	0.51	1.12	0.61	0	0	0	0	0	0	0	0
12/12/2024 18:55	45002	LIME_2	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
12/12/2024 18:55	10705	CATA_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/12/2024 18:56	44905	SCOT_T1	58	52	-6	0.94	0.73	-0.21	0	0	0	0	0	0	0	0
12/12/2024 18:56	67702	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/12/2024 18:56	67703	WERN_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/12/2024 18:56	57201	ROSS_T1	0	0	0	0	0	0	-0.83	-0.77	0	0	0	0	0	0
12/12/2024 18:56	57106	SPHI_T2	3	3	0	1.17	1.23	0.06	0	0	0	0	0	0	0	0
12/12/2024 18:56	58202	NEWV_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
12/12/2024 18:56	59101	WALK_T2	0	0	0	0	0	0	0.89	0.87	1	1	0	600	600	0
12/12/2024 18:56	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/12/2024 18:56	57104	SPHI_T2	2	3	1	4.5	2.35	-2.15	0	0	0	0	0	0	0	0
12/12/2024 18:56	54206	PENN_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
12/12/2024 18:56	64101	REFR_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
12/12/2024 18:56	60701	BREC_T1	0	0	0	0	0	0	-0.34	-0.36	1	1	0	600	600	0
12/12/2024 18:57	62102	ELAN_T1	0	0	0	0	0	0	0.84	0.82	0	0	0	0	0	0
12/12/2024 18:57	44801	EDAN_T2	2	1	-1	3.35	0.3	-3.05	0	0	0	0	0	0	0	0
12/12/2024 18:57	54501	ENOL_T2	0	0	0	0	0	0	-0.48	-0.51	1	1	0	600	600	0
12/12/2024 18:57	58402	MORO_T1	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/12/2024 18:57	53502	EVIL_T2	0	11	11	0	0.34	0.34	0	0	0	0	0	0	0	0
12/12/2024 18:57	59101	WALK_T2	0	0	0	0	0	0	0.89	0.87	1	1	0	600	600	0
12/12/2024 18:57	67605	WARW_T1	0	1	1	0	0	0	-0.94	-1.02	0	0	0	0	0	0
12/12/2024 18:57	60803	BUCK_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
12/12/2024 18:57	53501	EVIL_T2	1	1	0	0.2	0.2	0	-0.72	-0.73	1	1	0	600	600	0
12/12/2024 18:57	58401	MORO_T1	1	1	0	0.6	0	-0.6	-0.86	-0.97	1	1	0	600	600	0
12/12/2024 18:57	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:57	40201	BEGA_T2	9	25	16	0.68	0.2	-0.48	0	0	0	0	0	0	0	0
12/12/2024 18:57	14203	EALL_T1	0	0	0	0	0	0	-0.42	-0.46	1	1	0	1200	1200	0
12/12/2024 18:57	44802	EDAN_T2	0	0	0	0	0	0	2.1	2.11	0	0	0	0	0	0
12/12/2024 18:58	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/12/2024 18:58	52004	LING_T2	3	3	0	1.93	2.75	0.82	0.11	0.1	0	0	0	0	0	0
12/12/2024 18:58	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:58	64101	REFR_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
12/12/2024 18:58	57203	ROSS_T1	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
12/12/2024 18:59	42503	ALTA_T2	42	30	-12	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
12/12/2024 18:59	42501	ALTA_T2	38	30	-8	0.24	0.16	-0.08	0.14	0.08	1	1	0	600	600	0
12/12/2024 18:59	58401	MORO_T1	1	1	0	0.6	0	-0.6	-0.86	-0.97	1	1	0	600	600	0
12/12/2024 18:59	42502	ALTA_T2	5	2	-3	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
12/12/2024 18:59	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/12/2024 18:59	58102	NEKI_T1	1	1	0	0.6	0.6	0	0.26	0.34	0	0	0	0	0	0
12/12/2024 18:59	63804	HEMP_T1	1	8	7	6.7	6.3	-0.4	0	0	0	0	0	0	0	0
12/12/2024 18:59	40101	HUNT_T2	454	512	58	1.31	1.07	-0.24	-1.53	-1.49	0	0	0	0	0	0
12/12/2024 18:59	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:59	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 18:59	42504	ALTA_T2	3	3	0	0.47	0.37	-0.1	0	0	0	0	0	0	0	0
12/12/2024 18:59	58402	MORO_T1	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/12/2024 18:59	63801	HEMP_T1	0	0	0	0	0	0	-0.14	0.31	0	0	0	0	0	0
12/12/2024 19:00	49803	UNIV_T1	11	5	-6	0.96	7	6.04	-0.85	-0.83	0	0	0	0	0	0
12/12/2024 19:00	49804	UNIV_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
12/12/2024 19:01	67605	WARW_T1	0	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0
12/12/2024 19:01	53502	EVIL_T2	11	11	0	0.34	0	-0.34	0	0	0	0	0	0	0	0
12/12/2024 19:01	64101	REFR_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
12/12/2024 19:01	53501	EVIL_T2	1	1	0	0.2	0.2	0	-0.72	-0.73	1	1	0	600	600	0
12/12/2024 19:01	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2024 19:02	45002	LIME_2	1	1	0	2.7	3.4	0.7	-0.13	-0.15	0	0	0	0	0	0
12/12/2024 19:02	54504	ENOL_T2	0	0	0	0	0	0	-1.01	-0.98	1	1	0	600	600	0
12/12/2024 19:02	45003	LIME_2	59	58	-1	0.71	0.54	-0.17	0	0	0	0	0	0	0	0
12/12/2024 19:02	59101	WALK_T2	0	0	0	0	0	0	0.89	0.87	1	1	0	600	600	0
12/12/2024 19:02	45001	LIME_2	11	8	-3	0.89	0.85	-0.04	0	0	0	0	0	0	0	0
12/12/2024 19:02	67402	WAKE_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
12/12/2024 19:03	53501	EVIL_T2	1	1	0	0.2	0.2	0	-0.72	-0.73	1	1	0	600	600	0
12/12/2024 19:03	53502	EVIL_T2	11	11	0	0.34	0	-0.34	0	0	0	0	0	0	0	0
12/12/2024 19:03	54206	PENN_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
12/12/2024 19:04	64904	MILL_T1	0	0	0	0	0	0	-0.35	-0.31	0	0	0	0	0	0
12/12/2024 19:06	28102	TWLA_T2	0	1	1	0	0.3	0.3	0.24	0.25	0	0	0	0	0	0
12/12/2024 19:07	14201	EALL_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
12/12/2024 19:09	14201	EALL_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
12/12/2024 19:19	10705	CATA_T2	0	0	0	0	0	0	-0.77	-0.77	1	1	0	900	900	0
12/12/2024 19:37	66902	SHIL_T2	0	0	0	0	0	0	-1.96	-1.93	0	0	0	0	0	0
12/12/2024 19:48	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/12/2024 19:48	62102	ELAN_T1	0	0	0	0	0	0	0.85	0.81	0	0	0	0	0	0
12/12/2024 19:51	20201	JERM_T1	0	0	0	0	0	0	1.49	1.43	0	0	0	0	0	0
12/12/2024 20:15	60701	BREC_T1	0	1	1	0	0.2	0.2	-0.34	-0.4	1	1	0	600	600	0
12/12/2024 22:04	46802	HEPB_T1	0	1	1	0	0.1	0.1	-0.14	-0.2	0	0	0	0	0	0
12/13/2024 8:19	12202	FOGE_T2	0	0	0	0	0	0	-0.2	-0.22	1	1	0	600	600	0
12/13/2024 8:20	67002	STHI_T2	0	16	16	0	0.13	0.13	0	0	0	0	0	0	0	0
12/13/2024 8:20	67001	STHI_T2	2	84	82	0.4	0.12	-0.28	0.17	0.18	0	0	0	0	0	0
12/13/2024 8:27	16102	BING_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/13/2024 8:27	16101	BING_T2	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
12/13/2024 8:32	45002	LIME_2	1	1	0	4.4	4.5	0.1	0	0	0	0	0	0	0	0
12/13/2024 8:32	45003	LIME_2	6	1	-5	0.78	2.9	2.12	0.59	0.57	0	0	0	0	0	0
12/13/2024 8:32	45001	LIME_2	0	18	18	0	0.18	0.18	0	0	0	0	0	0	0	0
12/13/2024 8:34	47901	HRDG_T1	0	0	0	0	0	0	1.57	1.71	0	0	0	0	0	0
12/13/2024 8:35	52502	PROG_T2	0	0	0	0	0	0	-0.28	-0.29	1	1	0	900	900	0
12/13/2024 8:37	52502	PROG_T2	0	0	0	0	0	0	-0.58	-0.57	2	2	0	1800	1800	0
12/13/2024 8:39	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 8:41	45501	DERR_T2	10	4	-6	0.42	0	-0.42	0.99	1.02	2	2	0	1800	1800	0
12/13/2024 8:41	45502	DERR_T2	12	5	-7	0.73	0.5	-0.23	0	0	0	0	0	0	0	0
12/13/2024 8:44	45502	DERR_T2	12	5	-7	0.73	0.5	-0.23	0	0	0	0	0	0	0	0
12/13/2024 8:44	45501	DERR_T2	10	4	-6	0.42	0	-0.42	0.99	1.02	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/13/2024 8:45	61102	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/13/2024 8:45	61103	BERK_T5	0	7	7	0	0.11	0.11	0.1	0.12	0	0	0	0	0	0
12/13/2024 8:46	61103	BERK_T5	0	7	7	0	0.11	0.11	0.1	0.12	0	0	0	0	0	0
12/13/2024 8:46	61102	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/13/2024 8:47	61102	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/13/2024 8:47	61103	BERK_T5	0	7	7	0	0.11	0.11	0.1	0.12	0	0	0	0	0	0
12/13/2024 8:50	41901	REED_T1	3	5	2	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
12/13/2024 8:50	41903	REED_T1	0	0	0	0	0	0	-0.09	-0.1	1	1	0	1200	1200	0
12/13/2024 8:50	41902	REED_T1	3	2	-1	0.6	0.6	0	0	0	0	0	0	0	0	0
12/13/2024 8:53	57205	ROSS_T1	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
12/13/2024 8:59	61103	BERK_T5	0	7	7	0	0.11	0.11	0.12	0.09	0	0	0	0	0	0
12/13/2024 8:59	61102	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/13/2024 9:00	54502	ENOL_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/13/2024 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
12/13/2024 9:00	54503	ENOL_T2	0	0	0	0	0	0	-0.36	-0.36	1	1	0	600	600	0
12/13/2024 9:00	53501	EVIL_T2	2	2	0	0.35	0.8	0.45	-1.43	-1.37	2	2	0	1200	1200	0
12/13/2024 9:00	52502	PROG_T2	0	0	0	0	0	0	-0.28	0.65	1	0	-1	900	0	-900
12/13/2024 9:00	54505	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/13/2024 9:00	64101	REFR_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
12/13/2024 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
12/13/2024 9:00	53502	EVIL_T2	13	2	-11	0.71	2.6	1.89	0	0	0	0	0	0	0	0
12/13/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
12/13/2024 9:01	13503	MCMI_T2	0	0	0	0	0	0	-0.53	-0.6	0	0	0	0	0	0
12/13/2024 9:05	52502	PROG_T2	0	0	0	0	0	0	-0.28	0.65	1	0	-1	900	0	-900
12/13/2024 9:07	14201	EALL_T1	0	1	1	0	0	0	0.67	0.65	0	0	0	0	0	0
12/13/2024 9:08	52502	PROG_T2	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
12/13/2024 9:08	55002	NEWP_T1	4	6	2	0.7	0.48	-0.22	-0.17	-0.15	0	0	0	0	0	0
12/13/2024 9:09	57205	ROSS_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
12/13/2024 9:09	43103	SMIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/13/2024 9:09	43108	SMIL_T2	0	0	0	0	0	0	-1.26	-1.27	1	1	0	1200	1200	0
12/13/2024 9:09	43105	SMIL_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
12/13/2024 9:09	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
12/13/2024 9:09	43102	SMIL_T2	6	6	0	0.37	0.6	0.23	0	0	0	0	0	0	0	0
12/13/2024 9:09	43101	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 9:09	57203	ROSS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 9:09	45902	AUBU_T1	10	0	-10	0.83	0	-0.83	0	0	0	0	0	0	0	0
12/13/2024 9:10	59101	WALK_T2	1	1	0	0.5	0.7	0.2	1.05	0.95	1	1	0	600	600	0
12/13/2024 9:13	45501	DERR_T2	1	5	4	0.1	0	-0.1	1.05	1.1	2	2	0	1800	1800	0
12/13/2024 9:13	45502	DERR_T2	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/13/2024 9:14	26704	HEML_T2	0	0	0	0	0	0	-0.8	-0.76	1	1	0	1200	1200	0
12/13/2024 9:15	45501	DERR_T2	3	2	-1	1.37	0	-1.37	1.05	1.1	2	2	0	1800	1800	0
12/13/2024 9:15	45502	DERR_T2	3	2	-1	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
12/13/2024 9:16	45002	LIME_2	1	3	2	3.5	1.83	-1.67	0	0	0	0	0	0	0	0
12/13/2024 9:16	45003	LIME_2	2	2	0	1.85	3.4	1.55	0.68	0.61	0	0	0	0	0	0
12/13/2024 9:16	49804	UNIV_T1	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
12/13/2024 9:16	49803	UNIV_T1	1	1	0	6.1	5.7	-0.4	0	0	0	0	0	0	0	0
12/13/2024 9:16	45001	LIME_2	25	35	10	0.16	0.35	0.19	0	0	0	0	0	0	0	0
12/13/2024 9:17	11103	EGYP_T1	0	0	0	0	0	0	-0.75	-0.8	0	0	0	0	0	0
12/13/2024 9:17	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 9:17	11104	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 9:18	53501	EVIL_T2	2	2	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
12/13/2024 9:18	53502	EVIL_T2	2	1	-1	1.5	3.2	1.7	1	0.96	1	1	0	600	600	0
12/13/2024 9:19	13503	MCMI_T2	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
12/13/2024 9:27	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 9:28	46002	BERW_T2	0	0	0	0	0	0	-0.78	-0.82	1	1	0	900	900	0
12/13/2024 9:29	63501	HEID_TBK1-2	26	36	10	0.18	0.29	0.11	-0.33	-0.4	1	1	0	900	900	0
12/13/2024 9:29	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 9:30	63501	HEID_TBK1-2	28	47	19	0.21	0.48	0.27	-0.33	-0.4	1	1	0	900	900	0
12/13/2024 9:30	67702	WERN_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/13/2024 9:30	54504	ENOL_T2	0	0	0	0	0	0	-0.93	-0.91	1	1	0	600	600	0
12/13/2024 9:30	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 9:30	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/13/2024 9:31	63501	HEID_TBK1-2	28	47	19	0.21	0.48	0.27	-0.67	-0.8	2	2	0	1800	1800	0
12/13/2024 9:31	54506	ENOL_T2	0	0	0	0	0	0	0.24	0.26	1	1	0	600	600	0
12/13/2024 9:31	13901	SEID_T1	0	1	1	0	0	0	-0.92	-0.82	1	1	0	1200	1200	0
12/13/2024 9:31	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/13/2024 9:31	61103	BERK_T5	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
12/13/2024 9:31	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 9:31	13904	SEID_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/13/2024 9:31	67702	WERN_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/13/2024 9:32	63501	HEID_TBK1-2	28	47	19	0.21	0.48	0.27	0	0	0	0	0	0	0	0
12/13/2024 9:33	63501	HEID_TBK1-2	28	47	19	0.21	0.48	0.27	-0.33	-0.4	1	1	0	900	900	0
12/13/2024 9:33	61103	BERK_T5	0	0	0	0	0	0	0.22	0.18	0	0	0	0	0	0
12/13/2024 9:33	67702	WERN_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/13/2024 9:34	61103	BERK_T5	0	0	0	0	0	0	0.22	0.18	0	0	0	0	0	0
12/13/2024 9:34	67702	WERN_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/13/2024 9:34	65703	RVIL_T1	0	0	0	0	0	0	-2.36	-2.39	1	1	0	900	900	0
12/13/2024 9:35	58202	NEWV_T1	0	1	1	0	0.1	0.1	0.02	0.01	0	0	0	0	0	0
12/13/2024 9:36	61103	BERK_T5	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
12/13/2024 9:37	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 9:37	13302	ORVI_T2	1	1	0	0.1	0.2	0.1	0.95	0.94	0	0	0	0	0	0
12/13/2024 9:39	65703	RVIL_T1	0	0	0	0	0	0	-2.39	-1.3	1	1	0	900	900	0
12/13/2024 9:40	46206	DANV_T2	0	0	0	0	0	0	1.62	1.58	2	2	0	2100	2100	0
12/13/2024 9:41	46206	DANV_T2	0	0	0	0	0	0	1.62	1.58	2	2	0	2100	2100	0
12/13/2024 9:42	46206	DANV_T2	0	0	0	0	0	0	1.62	1.58	2	2	0	2100	2100	0
12/13/2024 9:43	24104	EHAZ_T1	5	17	12	0.14	0.19	0.05	-2.16	-2.14	1	1	0	1200	1200	0
12/13/2024 9:43	24103	EHAZ_T1	4	3	-1	0.75	0	-0.75	0	0	0	0	0	0	0	0
12/13/2024 9:43	24105	EHAZ_T1	16	11	-5	2.32	6.73	4.41	0	0	0	0	0	0	0	0
12/13/2024 9:43	24101	EHAZ_T1	12	14	2	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
12/13/2024 9:45	47203	FAXO_T2	0	0	0	0	0	0	-1.62	-1.69	1	1	0	1200	1200	0
12/13/2024 9:45	47202	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 9:45	10801	CHHI_T1	1	2	1	0.2	0.55	0.35	-1.33	-1.32	2	2	0	1500	1500	0
12/13/2024 9:47	13303	ORVI_T1	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
12/13/2024 9:51	65205	PRIN_T1	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
12/13/2024 9:53	48302	ORWI_T2	2	2	0	0.8	0.95	0.15	0.19	0.17	0	0	0	0	0	0
12/13/2024 9:55	14603	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/13/2024 9:55	14601	SWHI_T1	0	0	0	0	0	0	-2.75	-2.77	0	0	0	0	0	0
12/13/2024 9:57	14601	SWHI_T1	0	0	0	0	0	0	-1.38	-1.38	0	0	0	0	0	0
12/13/2024 9:57	67605	WARW_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/13/2024 9:57	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 9:57	14603	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/13/2024 9:59	46802	HEPB_T1	1	1	0	1.8	1.8	0	-1.06	-1.06	0	0	0	0	0	0
12/13/2024 10:02	40101	HUNT_T2	132	55	-77	0.6	0.5	-0.1	-1.4	-1.47	0	0	0	0	0	0
12/13/2024 10:03	45003	LIME_2	1	1	0	3.6	3.6	0	0	0	0	0	0	0	0	0
12/13/2024 10:03	45002	LIME_2	2	2	0	2.1	2.45	0.35	0	0	0	0	0	0	0	0
12/13/2024 10:03	45001	LIME_2	28	23	-5	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
12/13/2024 10:03	43202	MVIL_T2	1	1	0	0.1	0.3	0.2	-0.53	-0.56	0	0	0	0	0	0
12/13/2024 10:03	13302	ORVI_T2	0	3	3	0	0.3	0.3	0.94	0.9	0	0	0	0	0	0
12/13/2024 10:03	40101	HUNT_T2	132	55	-77	0.6	0.5	-0.1	-2.81	-2.94	0	0	0	0	0	0
12/13/2024 10:03	44905	SCOT_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/13/2024 10:04	60502	NMAN_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
12/13/2024 10:04	60501	NMAN_T2	8	8	0	0.14	0.18	0.04	0	0	0	0	0	0	0	0
12/13/2024 10:05	60501	NMAN_T2	8	8	0	0.14	0.18	0.04	0	0	0	0	0	0	0	0
12/13/2024 10:05	60502	NMAN_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
12/13/2024 10:06	43202	MVIL_T2	1	1	0	0.1	0.3	0.2	-0.56	-0.56	0	0	0	0	0	0
12/13/2024 10:07	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 10:07	60501	NMAN_T2	8	8	0	0.14	0.18	0.04	0	0	0	0	0	0	0	0
12/13/2024 10:08	44601	SALE_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
12/13/2024 10:08	60501	NMAN_T2	8	8	0	0.14	0.18	0.04	0	0	0	0	0	0	0	0
12/13/2024 10:08	60502	NMAN_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
12/13/2024 10:09	14601	SWHI_T1	0	0	0	0	0	0	-1.38	-1.4	0	0	0	0	0	0
12/13/2024 10:09	14603	SWHI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/13/2024 10:10	42701	AUGU_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
12/13/2024 10:11	16101	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 10:11	16102	BING_T2	1	1	0	0.9	1	0.1	0.12	0.17	0	0	0	0	0	0
12/13/2024 10:13	16102	BING_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
12/13/2024 10:13	42701	AUGU_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
12/13/2024 10:13	16101	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 10:16	40603	PIGR_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/13/2024 10:16	40602	PIGR_T1	1	1	0	2.6	2.5	-0.1	0	0	0	0	0	0	0	0
12/13/2024 10:16	63803	HEMP_T1	1	9	8	0.1	0.16	0.06	0.1	0.08	0	0	0	0	0	0
12/13/2024 10:16	63804	HEMP_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
12/13/2024 10:16	63801	HEMP_T1	0	1	1	0	0.1	0.1	-0.7	-0.66	1	1	0	900	900	0
12/13/2024 10:17	14204	EALL_T2	1	0	-1	0.2	0	-0.2	0.64	0.46	0	0	0	0	0	0
12/13/2024 10:17	20603	GRWO_T2	20	19	-1	1.4	0.31	-1.09	0	0	0	0	0	0	0	0
12/13/2024 10:17	20601	GRWO_T2	52	43	-9	0.47	0.39	-0.08	0.81	0.8	0	0	0	0	0	0
12/13/2024 10:18	60502	NMAN_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
12/13/2024 10:18	63803	HEMP_T1	1	9	8	0.1	0.16	0.06	0	0	0	0	0	0	0	0
12/13/2024 10:18	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 10:18	60501	NMAN_T2	6	6	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
12/13/2024 10:18	63802	HEMP_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
12/13/2024 10:18	63804	HEMP_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
12/13/2024 10:19	63801	HEMP_T1	0	1	1	0	0.1	0.1	-0.7	-0.66	1	1	0	900	900	0
12/13/2024 10:19	63803	HEMP_T1	1	9	8	0.1	0.16	0.06	0	0	0	0	0	0	0	0
12/13/2024 10:19	63804	HEMP_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
12/13/2024 10:19	60501	NMAN_T2	6	6	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
12/13/2024 10:19	60502	NMAN_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
12/13/2024 10:20	57704	PAXT_T2	0	6	6	0	0.22	0.22	0	0	0	0	0	0	0	0
12/13/2024 10:20	63501	HEID_TBK1-2	43	48	5	0.52	0.57	0.05	-0.36	-0.33	1	1	0	900	900	0
12/13/2024 10:20	57703	PAXT_T2	144	188	44	0.22	0.43	0.21	0	0	0	0	0	0	0	0
12/13/2024 10:20	53501	EVIL_T2	2	2	0	0.5	0.35	-0.15	-1.26	-1.33	2	2	0	1200	1200	0
12/13/2024 10:20	53502	EVIL_T2	1	1	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
12/13/2024 10:20	47901	HRDG_T1	0	0	0	0	0	0	2.09	1.77	0	0	0	0	0	0
12/13/2024 10:21	57702	PAXT_T1	10	20	10	0.25	0.4	0.15	0.26	0.22	0	0	0	0	0	0
12/13/2024 10:21	67001	STHI_T2	92	253	161	0.12	0.16	0.04	0.16	0.15	0	0	0	0	0	0
12/13/2024 10:21	60502	NMAN_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
12/13/2024 10:21	60501	NMAN_T2	6	6	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
12/13/2024 10:21	67002	STHI_T2	28	105	77	0.18	0.21	0.03	0.73	0.75	0	0	0	0	0	0
12/13/2024 10:21	53501	EVIL_T2	2	2	0	0.5	0.35	-0.15	-1.26	-1.33	2	2	0	1200	1200	0
12/13/2024 10:21	57701	PAXT_T1	55	387	332	0.14	0.24	0.1	-0.01	-0.02	0	0	0	0	0	0
12/13/2024 10:21	53502	EVIL_T2	1	1	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
12/13/2024 10:22	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 10:22	67702	WERN_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/13/2024 10:22	67002	STHI_T2	28	105	77	0.18	0.21	0.03	1.46	1.5	0	0	0	0	0	0
12/13/2024 10:22	67001	STHI_T2	92	253	161	0.12	0.16	0.04	0	0	0	0	0	0	0	0
12/13/2024 10:23	67702	WERN_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/13/2024 10:23	60501	NMAN_T2	6	6	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
12/13/2024 10:23	67001	STHI_T2	92	253	161	0.12	0.16	0.04	0	0	0	0	0	0	0	0
12/13/2024 10:23	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 10:23	60502	NMAN_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
12/13/2024 10:23	67002	STHI_T2	28	105	77	0.18	0.21	0.03	0.73	0.75	0	0	0	0	0	0
12/13/2024 10:24	67002	STHI_T2	28	105	77	0.18	0.21	0.03	2.2	2.25	0	0	0	0	0	0
12/13/2024 10:24	67001	STHI_T2	92	253	161	0.12	0.16	0.04	0	0	0	0	0	0	0	0
12/13/2024 10:24	42802	SELI_T1	0	0	0	0	0	0	-2.53	-2.58	1	1	0	900	900	0
12/13/2024 10:25	67702	WERN_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/13/2024 10:25	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 10:25	67002	STHI_T2	28	105	77	0.18	0.21	0.03	1.46	1.5	0	0	0	0	0	0
12/13/2024 10:25	67001	STHI_T2	92	253	161	0.12	0.16	0.04	0.16	0.15	0	0	0	0	0	0
12/13/2024 10:26	67002	STHI_T2	28	105	77	0.18	0.21	0.03	0.73	0.75	0	0	0	0	0	0
12/13/2024 10:26	67001	STHI_T2	92	253	161	0.12	0.16	0.04	0.16	0.15	0	0	0	0	0	0
12/13/2024 10:27	44601	SALE_T2	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
12/13/2024 10:28	40702	FFLD_T1	1	11	10	0.2	0.21	0.01	-0.93	-0.93	1	1	0	1200	1200	0
12/13/2024 10:28	40701	FFLD_T1	13	27	14	0.16	0.43	0.27	0	0	0	0	0	0	0	0
12/13/2024 10:28	40703	FFLD_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
12/13/2024 10:29	13302	ORVI_T2	1	3	2	0.1	0.5	0.4	0.86	0.87	0	0	0	0	0	0
12/13/2024 10:29	44801	EDAN_T2	0	2	2	0	1.55	1.55	0	0	0	0	0	0	0	0
12/13/2024 10:30	44801	EDAN_T2	2	4	2	1.55	0.25	-1.3	-0.29	-0.3	0	0	0	0	0	0
12/13/2024 10:31	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 10:32	40701	FFLD_T1	21	27	6	0.29	0.43	0.14	0	0	0	0	0	0	0	0
12/13/2024 10:32	40702	FFLD_T1	2	11	9	0.2	0.21	0.01	0	0	0	0	0	0	0	0
12/13/2024 10:32	40703	FFLD_T1	2	3	1	0.15	0.33	0.18	0	0	0	0	0	0	0	0
12/13/2024 10:35	53502	EVIL_T2	1	1	0	2.6	2.1	-0.5	0	0	0	0	0	0	0	0
12/13/2024 10:35	53501	EVIL_T2	2	2	0	0.35	0.95	0.6	-1.33	-1.35	2	2	0	1200	1200	0
12/13/2024 10:36	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 10:36	60501	NMAN_T2	6	2	-4	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/13/2024 10:41	10801	CHHI_T1	2	0	-2	0.55	0	-0.55	-0.56	-0.54	1	1	0	900	900	0
12/13/2024 10:41	54601	SUMM_T2	5	5	0	0.34	0.46	0.12	-1.72	-1.73	2	2	0	2100	2100	0
12/13/2024 10:43	40702	FFLD_T1	2	11	9	0.2	0.21	0.01	0	0	0	0	0	0	0	0
12/13/2024 10:43	62106	ELAN_T1	0	0	0	0	0	0	1.01	1.01	0	0	0	0	0	0
12/13/2024 10:43	45501	DERR_T2	0	0	0	0	0	0	0.92	1	2	2	0	1800	1800	0
12/13/2024 10:43	40701	FFLD_T1	21	27	6	0.29	0.43	0.14	0	0	0	0	0	0	0	0
12/13/2024 10:43	40703	FFLD_T1	2	3	1	0.15	0.33	0.18	0	0	0	0	0	0	0	0
12/13/2024 10:43	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 10:46	64802	MONE_T2	3	19	16	0.1	0.19	0.09	0	0	0	0	0	0	0	0
12/13/2024 10:46	64801	MONE_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 10:47	44902	SCOT_T2	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
12/13/2024 10:47	44901	SCOT_T2	1	1	0	0.3	0.5	0.2	0.07	0.1	0	0	0	0	0	0
12/13/2024 10:48	64802	MONE_T2	3	19	16	0.1	0.19	0.09	0.27	0.23	0	0	0	0	0	0
12/13/2024 10:48	64801	MONE_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 10:49	40101	HUNT_T2	72	268	196	0.68	0.57	-0.11	-1.6	-1.05	0	0	0	0	0	0
12/13/2024 10:50	60501	NMAN_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
12/13/2024 10:50	63804	HEMP_T1	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
12/13/2024 10:50	63801	HEMP_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
12/13/2024 10:50	54202	PENN_T2	2	1	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
12/13/2024 10:50	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 10:50	60504	NMAN_T2	0	0	0	0	0	0	-0.46	-0.46	1	1	0	1200	1200	0
12/13/2024 10:50	63803	HEMP_T1	2	3	1	0.35	0.37	0.02	0.08	0.09	0	0	0	0	0	0
12/13/2024 10:50	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 10:51	54201	PENN_T1	24	6	-18	0.45	0.97	0.52	0	0	0	0	0	0	0	0
12/13/2024 10:51	54203	PENN_T1	21	20	-1	0.89	0.76	-0.13	0.73	0.7	0	0	0	0	0	0
12/13/2024 10:52	54203	PENN_T1	21	20	-1	0.89	0.76	-0.13	0	0	0	0	0	0	0	0
12/13/2024 10:52	54201	PENN_T1	24	6	-18	0.45	0.97	0.52	-0.04	0.01	0	0	0	0	0	0
12/13/2024 10:53	14203	EALL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 10:53	14201	EALL_T1	0	0	0	0	0	0	0.7	0.62	0	0	0	0	0	0
12/13/2024 10:53	55002	NEWP_T1	9	7	-2	1.13	1.34	0.21	-0.67	-0.59	0	0	0	0	0	0
12/13/2024 10:53	55001	NEWP_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
12/13/2024 10:54	55002	NEWP_T1	9	7	-2	1.13	1.34	0.21	-0.17	-0.15	0	0	0	0	0	0
12/13/2024 10:54	54203	PENN_T1	21	20	-1	0.89	0.76	-0.13	0	0	0	0	0	0	0	0
12/13/2024 10:54	55001	NEWP_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
12/13/2024 10:54	54201	PENN_T1	24	6	-18	0.45	0.97	0.52	-0.04	0.01	0	0	0	0	0	0
12/13/2024 10:55	54201	PENN_T1	24	6	-18	0.45	0.97	0.52	0	0	0	0	0	0	0	0
12/13/2024 10:55	45902	AUBU_T1	4	5	1	1.1	0.98	-0.12	0.01	0.01	1	1	0	600	600	0
12/13/2024 10:55	54203	PENN_T1	21	20	-1	0.89	0.76	-0.13	0.7	0.72	0	0	0	0	0	0
12/13/2024 10:55	13302	ORVI_T2	3	3	0	0.5	0.67	0.17	0.86	0.86	0	0	0	0	0	0
12/13/2024 10:56	48302	ORWI_T2	2	2	0	0.95	1.05	0.1	0	0	0	0	0	0	0	0
12/13/2024 10:58	41801	GOCI_T2	1	3	2	0.5	0.53	0.03	0	0	0	0	0	0	0	0
12/13/2024 11:01	64902	MILL_T2	0	0	0	0	0	0	-0.63	-0.62	1	1	0	900	900	0
12/13/2024 11:01	61001	DONV_T1	1	2	1	0.5	0.45	-0.05	0.02	0.01	0	0	0	0	0	0
12/13/2024 11:02	20501	HGTN_T1	0	0	0	0	0	0	-0.59	-0.58	2	2	0	1200	1200	0
12/13/2024 11:02	20502	HGTN_T1	3	3	0	5.9	5.83	-0.07	0	0	0	0	0	0	0	0
12/13/2024 11:02	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 11:03	61103	BERK_T5	0	1	1	0	0.1	0.1	0.24	0.24	0	0	0	0	0	0
12/13/2024 11:03	61102	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/13/2024 11:04	61103	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 11:04	64802	MONE_T2	8	25	17	0.13	0.21	0.08	0	0	0	0	0	0	0	0
12/13/2024 11:04	64801	MONE_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
12/13/2024 11:04	61102	BERK_T5	1	0	-1	0.1	0	-0.1	0.72	0.76	1	1	0	300	300	0
12/13/2024 11:05	10903	COOP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 11:05	10901	COOP_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
12/13/2024 11:05	61103	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 11:05	61102	BERK_T5	1	0	-1	0.1	0	-0.1	0.72	0.76	1	1	0	300	300	0
12/13/2024 11:06	64101	REFR_T1	0	1	1	0	0.1	0.1	0.02	-0.03	0	0	0	0	0	0
12/13/2024 11:07	67605	WARW_T1	2	3	1	0.7	0.4	-0.3	-1.16	-1.18	0	0	0	0	0	0
12/13/2024 11:08	64103	REFR_T1	0	1	1	0	0.1	0.1	0.02	-0.03	0	0	0	0	0	0
12/13/2024 11:09	64101	REFR_T1	0	1	1	0	0.1	0.1	0.02	-0.03	0	0	0	0	0	0
12/13/2024 11:10	67605	WARW_T1	2	3	1	0.7	0.4	-0.3	-1.16	-1.18	0	0	0	0	0	0
12/13/2024 11:12	64101	REFR_T1	0	1	1	0	0.1	0.1	0.02	-0.03	0	0	0	0	0	0
12/13/2024 11:13	20601	GRWO_T2	27	15	-12	0.4	0.9	0.5	0.8	0.78	0	0	0	0	0	0
12/13/2024 11:13	20603	GRWO_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
12/13/2024 11:15	64101	REFR_T1	1	0	-1	0.1	0	-0.1	0.02	-0.03	0	0	0	0	0	0
12/13/2024 11:18	53302	GRAT_T2	2	1	-1	1.45	1.7	0.25	0	0	0	0	0	0	0	0
12/13/2024 11:20	64101	REFR_T1	1	0	-1	0.1	0	-0.1	0.02	-0.03	0	0	0	0	0	0
12/13/2024 11:24	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 11:24	60501	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/13/2024 11:24	46004	BERW_T2	3	1	-2	0.63	0.1	-0.53	-0.63	-0.7	0	0	0	0	0	0
12/13/2024 11:25	50103	HARR_T3	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
12/13/2024 11:25	50107	HARR_T3	2	0	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
12/13/2024 11:25	50106	HARR_T3	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/13/2024 11:25	50202	HARR_T3	0	0	0	0	0	0	-1.55	-1.54	0	0	0	0	0	0
12/13/2024 11:25	50201	HARR_T3	1	1	0	7.7	8.2	0.5	0	0	0	0	0	0	0	0
12/13/2024 11:25	50105	HARR_T3	17	14	-3	3.71	3.62	-0.09	0	0	0	0	0	0	0	0
12/13/2024 11:26	59101	WALK_T2	1	1	0	2	1.4	-0.6	4.02	3.84	0	0	0	0	0	0
12/13/2024 11:29	11203	ELHE_T1	0	0	0	0	0	0	0.98	0.96	0	0	0	0	0	0
12/13/2024 11:31	45003	LIME_2	1	1	0	2.9	3.7	0.8	0.43	0.35	0	0	0	0	0	0
12/13/2024 11:31	45001	LIME_2	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
12/13/2024 11:31	45002	LIME_2	1	1	0	5.2	5.6	0.4	0	0	0	0	0	0	0	0
12/13/2024 11:32	45003	LIME_2	1	1	0	2.9	3.7	0.8	0.43	0.35	0	0	0	0	0	0
12/13/2024 11:32	20601	GRWO_T2	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
12/13/2024 11:32	20603	GRWO_T2	0	0	0	0	0	0	-0.53	-0.51	1	1	0	900	900	0
12/13/2024 11:32	45002	LIME_2	1	1	0	5.2	5.6	0.4	0	0	0	0	0	0	0	0
12/13/2024 11:32	45001	LIME_2	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
12/13/2024 11:33	11202	ELHE_T2	0	0	0	0	0	0	0.42	0.4	1	1	0	1200	1200	0
12/13/2024 11:34	45001	LIME_2	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
12/13/2024 11:34	61103	BERK_T5	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
12/13/2024 11:34	45002	LIME_2	1	1	0	5.2	5.6	0.4	0	0	0	0	0	0	0	0
12/13/2024 11:34	45003	LIME_2	1	1	0	2.9	3.7	0.8	0	0	0	0	0	0	0	0
12/13/2024 11:35	45001	LIME_2	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
12/13/2024 11:35	45003	LIME_2	1	1	0	2.9	3.7	0.8	0	0	0	0	0	0	0	0
12/13/2024 11:35	45002	LIME_2	1	1	0	5.2	5.6	0.4	0	0	0	0	0	0	0	0
12/13/2024 11:39	13302	ORVI_T2	4	9	5	0.65	0.39	-0.26	2.45	2.54	0	0	0	0	0	0
12/13/2024 11:40	67402	WAKE_T2	0	1	1	0	0.2	0.2	0.23	0.25	0	0	0	0	0	0
12/13/2024 11:40	64302	LINC_T2	0	0	0	0	0	0	1.14	1.14	0	0	0	0	0	0
12/13/2024 11:40	67401	WAKE_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/13/2024 11:40	64304	LINC_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/13/2024 11:41	13302	ORVI_T2	4	9	5	0.65	0.39	-0.26	0.82	0.85	0	0	0	0	0	0
12/13/2024 11:43	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
12/13/2024 11:45	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
12/13/2024 11:46	64801	MONE_T2	1	5	4	0.5	0.14	-0.36	0.4	0.42	0	0	0	0	0	0
12/13/2024 11:46	64802	MONE_T2	17	41	24	0.22	0.24	0.02	0	0	0	0	0	0	0	0
12/13/2024 11:47	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 11:47	40901	JESH_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
12/13/2024 11:47	64304	LINC_T2	2	1	-1	0.35	0.7	0.35	0	0	0	0	0	0	0	0
12/13/2024 11:47	64302	LINC_T2	0	0	0	0	0	0	1.14	1.14	0	0	0	0	0	0
12/13/2024 11:48	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
12/13/2024 11:48	65503	MOJO_T2	0	1	1	0	0.1	0.1	-1.11	-1.13	1	1	0	900	900	0
12/13/2024 11:48	60901	DONG_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
12/13/2024 11:48	60902	DONG_T2	0	1	1	0	0.2	0.2	0.76	0.72	0	0	0	0	0	0
12/13/2024 11:50	66502	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
12/13/2024 11:50	66504	SMAN_T2	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
12/13/2024 11:50	66505	SMAN_T2	0	0	0	0	0	0	0.09	-0.18	1	1	0	900	900	0
12/13/2024 11:50	65503	MOJO_T2	0	1	1	0	0.1	0.1	-1.11	-1.13	1	1	0	900	900	0
12/13/2024 11:50	66501	SMAN_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
12/13/2024 11:50	65502	MOJO_T2	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
12/13/2024 11:51	65502	MOJO_T2	0	0	0	0	0	0	-0.03	0.1	0	0	0	0	0	0
12/13/2024 11:51	65303	NIBRI_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
12/13/2024 11:51	65303	MOJO_T2	0	1	1	0	0.1	0.1	-1.13	-1.17	1	1	0	900	900	0
12/13/2024 11:52	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 11:52	43103	SMIL_T2	4	4	0	0.3	0.43	0.13	0	0	0	0	0	0	0	0
12/13/2024 11:52	43102	SMIL_T2	6	6	0	0.65	0.82	0.17	-0.82	-0.82	1	1	0	600	600	0
12/13/2024 11:52	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 11:52	43105	SMIL_T2	8	12	4	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
12/13/2024 11:52	43101	SMIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/13/2024 11:52	65503	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 11:54	66504	SMAN_T2	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
12/13/2024 11:54	66505	SMAN_T2	0	0	0	0	0	0	-0.18	-0.2	1	1	0	900	900	0
12/13/2024 11:54	66501	SMAN_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/13/2024 11:54	66502	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
12/13/2024 11:55	66504	SMAN_T2	0	4	4	0	0.45	0.45	-0.33	-0.35	0	0	0	0	0	0
12/13/2024 11:55	43108	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 11:55	43102	SMIL_T2	6	6	0	0.65	0.82	0.17	-0.82	-0.82	1	1	0	600	600	0
12/13/2024 11:55	43101	SMIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/13/2024 11:55	66502	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
12/13/2024 11:55	66501	SMAN_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
12/13/2024 11:55	43105	SMIL_T2	8	12	4	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
12/13/2024 11:55	43103	SMIL_T2	4	4	0	0.3	0.43	0.13	0	0	0	0	0	0	0	0
12/13/2024 11:56	66504	SMAN_T2	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
12/13/2024 11:56	66502	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
12/13/2024 11:56	66501	SMAN_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
12/13/2024 11:56	44801	EDAN_T2	4	2	-2	0.35	0.5	0.15	0	0	0	0	0	0	0	0
12/13/2024 11:56	44802	EDAN_T2	0	0	0	0	0	0	-4.37	-4.42	0	0	0	0	0	0
12/13/2024 11:57	10805	CHHI_T2	3	5	2	2.7	1.68	-1.02	-0.56	-0.53	1	1	0	600	600	0
12/13/2024 11:58	44802	EDAN_T2	0	0	0	0	0	0	-4.37	-4.42	0	0	0	0	0	0
12/13/2024 11:58	44801	EDAN_T2	4	2	-2	0.35	0.5	0.15	0	0	0	0	0	0	0	0
12/13/2024 12:00	44802	EDAN_T2	0	1	1	0	0.1	0.1	-4.37	-4.42	0	0	0	0	0	0
12/13/2024 12:00	44801	EDAN_T2	2	3	1	0.35	0.47	0.12	0	0	0	0	0	0	0	0
12/13/2024 12:01	40902	JESH_T1	0	0	0	0	0	0	-1.09	-1.1	1	1	0	600	600	0
12/13/2024 12:01	40901	JESH_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
12/13/2024 12:02	64904	MILL_T1	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
12/13/2024 12:05	48901	FOSP_T2	0	0	0	0	0	0	-0.1	-0.12	1	1	0	600	600	0
12/13/2024 12:05	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 12:06	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 12:06	44802	EDAN_T2	0	1	1	0	0.1	0.1	-2.21	-2.25	0	0	0	0	0	0
12/13/2024 12:06	44801	EDAN_T2	2	3	1	0.35	0.47	0.12	0	0	0	0	0	0	0	0
12/13/2024 12:06	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/13/2024 12:07	55002	NEWP_T1	10	7	-3	1.32	1.3	-0.02	-0.37	-0.38	0	0	0	0	0	0
12/13/2024 12:07	43103	SMIL_T2	4	4	0	0.43	0.35	-0.08	0	0	0	0	0	0	0	0
12/13/2024 12:07	43105	SMIL_T2	12	4	-8	0.33	0.48	0.15	0	0	0	0	0	0	0	0
12/13/2024 12:07	43101	SMIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/13/2024 12:07	55001	NEWP_T1	2	1	-1	0.6	0.3	-0.3	-0.29	-0.25	0	0	0	0	0	0
12/13/2024 12:07	43102	SMIL_T2	6	6	0	0.82	0.73	-0.09	0	0	0	0	0	0	0	0
12/13/2024 12:07	43108	SMIL_T2	0	1	1	0	0	0	0.3	0.09	0	0	0	0	0	0
12/13/2024 12:08	44302	BEAV_T2	2	2	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
12/13/2024 12:08	44301	BEAV_T2	3	0	-3	0.27	0	-0.27	-0.34	-0.37	1	1	0	600	600	0
12/13/2024 12:08	63602	LETO_T1	0	0	0	0	0	0	-0.4	-0.46	0	0	0	0	0	0
12/13/2024 12:08	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 12:09	55002	NEWP_T1	10	7	-3	1.32	1.3	-0.02	0	0	0	0	0	0	0	0
12/13/2024 12:09	55001	NEWP_T1	2	1	-1	0.6	0.3	-0.3	-0.29	-0.25	0	0	0	0	0	0
12/13/2024 12:12	40101	HUNT_T2	41	66	25	0.59	0.45	-0.14	-1.09	-1.06	0	0	0	0	0	0
12/13/2024 12:13	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 12:13	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 12:13	55105	WERT_T1	0	0	0	0	0	0	-0.46	-0.5	1	1	0	900	900	0
12/13/2024 12:13	62102	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/13/2024 12:13	62105	ELAN_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
12/13/2024 12:15	44801	EDAN_T2	2	3	1	0.5	0.33	-0.17	-0.59	-0.71	0	0	0	0	0	0
12/13/2024 12:15	44802	EDAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 12:16	61302	EARL_T1	1	1	0	1.5	1.6	0.1	-0.08	-0.09	2	2	0	1800	1800	0
12/13/2024 12:16	61304	EARL_T1	0	0	0	0	0	0	-0.8	-0.75	1	1	0	600	600	0
12/13/2024 12:17	25501	MADI_T1	43	20	-23	0.45	0.84	0.39	0.41	0.4	0	0	0	0	0	0
12/13/2024 12:17	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 12:17	25503	MADI_T1	0	1	1	0	0.1	0.1	-0.89	-0.88	0	0	0	0	0	0
12/13/2024 12:18	48303	ORWI_T2	1	0	-1	0.1	0	-0.1	0.04	0.03	0	0	0	0	0	0
12/13/2024 12:18	45802	HEGI_T2	25	40	15	0.56	0.76	0.2	0	0	0	0	0	0	0	0
12/13/2024 12:18	48302	ORWI_T2	2	2	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
12/13/2024 12:20	41002	LAUR_T2	37	47	10	0.37	0.34	-0.03	-0.98	-0.96	0	0	0	0	0	0
12/13/2024 12:20	41001	LAUR_T2	77	73	-4	0.49	0.45	-0.04	0	0	0	0	0	0	0	0
12/13/2024 12:21	61302	EARL_T1	1	1	0	1.5	1.6	0.1	-0.09	0.11	2	2	0	1800	1800	0
12/13/2024 12:22	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 12:22	57104	SPHI_T2	4	4	0	3.6	4.65	1.05	0	0	0	0	0	0	0	0
12/13/2024 12:22	57106	SPHI_T2	3	4	1	2.07	1.68	-0.39	0	0	0	0	0	0	0	0
12/13/2024 12:22	57101	SPHI_T2	4	6	2	0.35	0.92	0.57	0.32	0.32	0	0	0	0	0	0
12/13/2024 12:22	41901	REED_T1	7	6	-1	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
12/13/2024 12:22	41902	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 12:24	57106	SPHI_T2	3	4	1	2.07	1.68	-0.39	0	0	0	0	0	0	0	0
12/13/2024 12:24	57103	SPHI_T2	0	0	0	0	0	0	-0.85	-0.86	1	1	0	600	600	0
12/13/2024 12:24	57101	SPHI_T2	4	6	2	0.35	0.92	0.57	0	0	0	0	0	0	0	0
12/13/2024 12:24	65207	PRIN_T4	2	2	0	1.35	2.8	1.45	0	0	1	1	0	1200	1200	0
12/13/2024 12:24	57104	SPHI_T2	4	4	0	3.6	4.65	1.05	-3.59	-3.65	2	2	0	1800	1800	0
12/13/2024 12:26	57101	SPHI_T2	4	6	2	0.35	0.92	0.57	0	0	0	0	0	0	0	0
12/13/2024 12:26	57106	SPHI_T2	3	4	1	2.07	1.68	-0.39	0	0	0	0	0	0	0	0
12/13/2024 12:26	57104	SPHI_T2	4	4	0	3.6	4.65	1.05	-3.59	-3.65	2	2	0	1800	1800	0
12/13/2024 12:30	64802	MONE_T2	41	64	23	0.26	0.3	0.04	0.08	0.1	0	0	0	0	0	0
12/13/2024 12:30	64801	MONE_T2	5	6	1	0.18	0.22	0.04	0	0	0	0	0	0	0	0
12/13/2024 12:32	20603	GRWO_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/13/2024 12:32	20601	GRWO_T2	1	1	0	1	0.2	-0.8	0.76	0.75	0	0	0	0	0	0
12/13/2024 12:33	24206	PROV_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 12:33	24202	PROV_T4	0	0	0	0	0	0	-0.67	-0.68	1	1	0	1200	1200	0
12/13/2024 12:34	49804	UNIV_T1	3	4	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
12/13/2024 12:34	64204	KINZ_T1	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/13/2024 12:34	64201	KINZ_T1	0	0	0	0	0	0	-0.39	-0.22	3	3	0	1500	1500	0
12/13/2024 12:34	65207	PRIN_T4	2	3	1	2.8	2.8	0	0	0	0	0	0	0	0	0
12/13/2024 12:34	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 12:34	64202	KINZ_T1	2	2	0	0.1	0.35	0.25	0	0	0	0	0	0	0	0
12/13/2024 12:34	49803	UNIV_T1	1	1	0	5.3	5.5	0.2	-1.1	-1.07	0	0	0	0	0	0
12/13/2024 12:35	64202	KINZ_T1	2	2	0	0.1	0.35	0.25	0	0	0	0	0	0	0	0
12/13/2024 12:35	64201	KINZ_T1	0	0	0	0	0	0	-0.39	-0.22	3	3	0	1500	1500	0
12/13/2024 12:35	64204	KINZ_T1	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/13/2024 12:38	59102	WALK_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
12/13/2024 12:38	59101	WALK_T2	3	15	12	0.47	0.21	-0.26	-0.48	-0.58	0	0	0	0	0	0
12/13/2024 12:38	55002	NEWP_T1	7	7	0	1.13	1.2	0.07	-0.19	-0.22	0	0	0	0	0	0
12/13/2024 12:38	55001	NEWP_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
12/13/2024 12:40	59101	WALK_T2	3	15	12	0.47	0.21	-0.26	0	0	0	0	0	0	0	0
12/13/2024 12:40	59102	WALK_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
12/13/2024 12:41	59102	WALK_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
12/13/2024 12:41	59101	WALK_T2	3	15	12	0.47	0.21	-0.26	-0.48	-0.58	0	0	0	0	0	0
12/13/2024 12:44	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/13/2024 12:44	62105	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 12:44	62102	ELAN_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
12/13/2024 12:44	62101	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/13/2024 12:44	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/13/2024 12:44	62106	ELAN_T1	0	0	0	0	0	0	1.09	1.27	0	0	0	0	0	0
12/13/2024 12:44	54505	ENOL_T2	1	2	1	0.5	0.35	-0.15	-1.17	-1.21	1	1	0	600	600	0
12/13/2024 12:48	55002	NEWP_T1	6	8	2	1.23	0.91	-0.32	-0.19	-0.22	0	0	0	0	0	0
12/13/2024 12:48	55001	NEWP_T1	1	2	1	0.1	0.8	0.7	0	0	0	0	0	0	0	0
12/13/2024 12:49	14203	EALL_T1	0	0	0	0	0	0	-0.61	-0.65	2	2	0	2400	2400	0
12/13/2024 12:50	41902	REED_T1	1	0	-1	0.1	0	-0.1	1.13	1.1	0	0	0	0	0	0
12/13/2024 12:53	13502	MCMI_T1	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
12/13/2024 12:53	24201	PROV_T3	5	2	-3	1.5	3.6	2.1	-1.36	-0.05	1	0	-1	1200	0	-1200
12/13/2024 12:53	24204	PROV_T3	2	1	-1	2.8	5.7	2.9	0	0	0	0	0	0	0	0
12/13/2024 12:53	24205	PROV_T3	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
12/13/2024 12:53	13501	MCMI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 12:54	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
12/13/2024 12:55	13501	MCMI_T1	0	1	1	0	0	0	0.11	0.17	0	0	0	0	0	0
12/13/2024 12:55	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/13/2024 12:55	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 12:56	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/13/2024 12:56	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
12/13/2024 12:56	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 12:57	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
12/13/2024 12:58	60803	BUCK_T1	4	2	-2	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
12/13/2024 12:58	60801	BUCK_T1	2	1	-1	0.2	0.4	0.2	-0.16	-0.19	0	0	0	0	0	0
12/13/2024 12:58	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
12/13/2024 12:59	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 12:59	44502	HAMI_T2	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
12/13/2024 13:00	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 13:00	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 13:00	44502	HAMI_T2	1	1	0	2.3	2.6	0.3	0	0	0	0	0	0	0	0
12/13/2024 13:04	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 13:04	44502	HAMI_T2	1	1	0	2.3	2.6	0.3	0	0	0	0	0	0	0	0
12/13/2024 13:06	66501	SMAN_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/13/2024 13:06	66504	SMAN_T2	4	2	-2	0.4	0.3	-0.1	-0.43	-0.49	0	0	0	0	0	0
12/13/2024 13:06	66505	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/13/2024 13:07	67106	SPEI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 13:08	66501	SMAN_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/13/2024 13:08	66505	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/13/2024 13:08	66504	SMAN_T2	4	2	-2	0.4	0.3	-0.1	-0.86	-0.99	0	0	0	0	0	0
12/13/2024 13:10	43102	SMIL_T2	6	7	1	0.62	0.74	0.12	0	0	0	0	0	0	0	0
12/13/2024 13:10	66504	SMAN_T2	4	2	-2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/13/2024 13:10	66501	SMAN_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/13/2024 13:10	66505	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/13/2024 13:10	43105	SMIL_T2	3	5	2	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
12/13/2024 13:10	43103	SMIL_T2	4	4	0	0.23	0.53	0.3	-1.41	-1.72	0	0	0	0	0	0
12/13/2024 13:10	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
12/13/2024 13:13	54501	ENOL_T2	0	0	0	0	0	0	0.17	0.11	0	0	0	0	0	0
12/13/2024 13:13	54505	ENOL_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
12/13/2024 13:13	54502	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/13/2024 13:13	10703	CATA_T2	1	2	1	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
12/13/2024 13:13	10705	CATA_T2	1	1	0	1.6	1.4	-0.2	-0.89	-0.9	1	1	0	900	900	0
12/13/2024 13:15	13101	NHAM_T1	0	0	0	0	0	0	-4.58	-4.74	4	4	0	4200	4200	0
12/13/2024 13:18	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 13:18	54501	ENOL_T2	0	0	0	0	0	0	0.17	0.11	0	0	0	0	0	0
12/13/2024 13:18	54505	ENOL_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
12/13/2024 13:25	53102	WTWN_T1	0	0	0	0	0	0	-1.15	-0.48	0	0	0	0	0	0
12/13/2024 13:25	43105	SMIL_T2	3	5	2	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
12/13/2024 13:25	43101	SMIL_T2	0	0	0	0	0	0	-0.67	-0.61	0	0	0	0	0	0
12/13/2024 13:25	43103	SMIL_T2	4	4	0	0.4	0.53	0.13	0	0	0	0	0	0	0	0
12/13/2024 13:25	43102	SMIL_T2	6	7	1	0.62	0.83	0.21	0	0	0	0	0	0	0	0
12/13/2024 13:25	67605	WARW_T1	4	9	5	0.48	0.45	-0.03	-1.25	-1.26	0	0	0	0	0	0
12/13/2024 13:27	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 13:33	67605	WARW_T1	7	9	2	0.41	0.4	-0.01	-1.25	-1.26	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/13/2024 13:35	48301	ORWI_T1	2	2	0	5.3	5.3	0	-0.48	-0.49	1	1	0	900	900	0
12/13/2024 13:36	52502	PROG_T2	0	0	0	0	0	0	0.48	0.43	0	0	0	0	0	0
12/13/2024 13:37	52502	PROG_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
12/13/2024 13:39	14801	TREI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/13/2024 13:39	52502	PROG_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
12/13/2024 13:39	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
12/13/2024 13:39	14802	TREI_T2	1	1	0	0.4	0.2	-0.2	0.45	0.51	0	0	0	0	0	0
12/13/2024 13:39	67401	WAKE_T2	0	1	1	0	0.1	0.1	-1.1	-1.08	0	0	0	0	0	0
12/13/2024 13:39	46004	BERW_T2	1	1	0	0.2	0.3	0.1	-0.73	-0.74	0	0	0	0	0	0
12/13/2024 13:47	48902	FOSP_T2	1	1	0	0.2	0.4	0.2	0.24	0.32	0	0	0	0	0	0
12/13/2024 13:49	45002	LIME_2	1	1	0	4.4	5.2	0.8	0.54	0.56	0	0	0	0	0	0
12/13/2024 13:49	45001	LIME_2	8	10	2	0.29	0.17	-0.12	0	0	0	0	0	0	0	0
12/13/2024 13:49	45003	LIME_2	2	1	-1	2.1	4.4	2.3	0	0	0	0	0	0	0	0
12/13/2024 13:49	12402	MILF_T1	4	2	-2	0.18	0.2	0.02	-1.07	-1.09	0	0	0	0	0	0
12/13/2024 13:49	12401	MILF_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
12/13/2024 13:51	55002	NEWP_T1	7	7	0	0.67	0.96	0.29	-0.19	-0.21	0	0	0	0	0	0
12/13/2024 13:51	12401	MILF_T1	1	1	0	0.5	0.1	-0.4	-0.25	-0.25	0	0	0	0	0	0
12/13/2024 13:51	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/13/2024 13:51	12402	MILF_T1	4	2	-2	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/13/2024 13:54	67002	STHI_T2	9	11	2	0.21	0.23	0.02	0	0	0	0	0	0	0	0
12/13/2024 13:54	67001	STHI_T2	5	7	2	0.3	0.29	-0.01	0.12	0.12	0	0	0	0	0	0
12/13/2024 13:56	42501	ALTA_T2	0	0	0	0	0	0	0.03	0.12	1	1	0	600	600	0
12/13/2024 13:58	42501	ALTA_T2	0	0	0	0	0	0	0.06	0.23	2	2	0	1200	1200	0
12/13/2024 13:58	55105	WERT_T1	0	0	0	0	0	0	-0.56	-0.59	1	1	0	900	900	0
12/13/2024 14:03	50502	MECH_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
12/13/2024 14:03	50501	MECH_T1	4	4	0	0.63	0.7	0.07	0	0	0	0	0	0	0	0
12/13/2024 14:03	50506	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 14:06	64204	KINZ_T1	1	2	1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
12/13/2024 14:06	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 14:06	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 14:08	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 14:08	43801	SWIL_T1	2	2	0	2.5	2.5	0	0	0	0	0	0	0	0	0
12/13/2024 14:10	63801	HEMP_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/13/2024 14:10	63802	HEMP_T1	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
12/13/2024 14:10	63803	HEMP_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/13/2024 14:10	63804	HEMP_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
12/13/2024 14:11	42301	MOWR_T2	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
12/13/2024 14:11	11203	ELHE_T1	2	2	0	1.1	0	-1.1	0.85	0.86	0	0	0	0	0	0
12/13/2024 14:13	46004	BERW_T2	1	1	0	0.3	0.4	0.1	-0.71	-0.71	0	0	0	0	0	0
12/13/2024 14:17	45802	HEGI_T2	36	46	10	0.81	1.38	0.57	-0.11	-0.16	1	1	0	900	900	0
12/13/2024 14:18	45802	HEGI_T2	36	46	10	0.81	1.38	0.57	-0.11	-0.16	1	1	0	900	900	0
12/13/2024 14:25	64602	LEOL_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
12/13/2024 14:26	45902	AUBU_T1	4	4	0	0.65	0	-0.65	0.01	0.01	1	1	0	600	600	0
12/13/2024 14:28	45902	AUBU_T1	4	4	0	0.65	0	-0.65	0.01	0.01	1	1	0	600	600	0
12/13/2024 14:33	67604	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 14:33	67605	WARW_T1	5	4	-1	0.58	0.6	0.02	0	0	0	0	0	0	0	0
12/13/2024 14:33	65401	MARI_T1	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
12/13/2024 14:34	65401	MARI_T1	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
12/13/2024 14:34	44201	POIN_T1	42	132	90	0.16	0.29	0.13	-1.93	-2.04	2	2	0	2100	2100	0
12/13/2024 14:35	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 14:36	65401	MARI_T1	0	0	0	0	0	0	0.79	0.73	0	0	0	0	0	0
12/13/2024 14:36	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 14:36	63803	HEMP_T1	1	6	5	0.2	0.18	-0.02	0.08	0.06	0	0	0	0	0	0
12/13/2024 14:36	63801	HEMP_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
12/13/2024 14:36	44201	POIN_T1	42	132	90	0.16	0.29	0.13	-2.04	-2.07	2	2	0	2100	2100	0
12/13/2024 14:36	63804	HEMP_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
12/13/2024 14:37	61103	BERK_T5	7	2	-5	0.19	0.2	0.01	0	0	0	0	0	0	0	0
12/13/2024 14:37	61102	BERK_T5	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/13/2024 14:37	61101	BERK_T5	4	0	-4	0.25	0	-0.25	0	0	0	0	0	0	0	0
12/13/2024 14:37	47802	MOCA_T2	0	0	0	0	0	0	-0.89	-0.91	0	0	0	0	0	0
12/13/2024 14:38	44201	POIN_T1	42	132	90	0.16	0.29	0.13	-2.04	-2.07	2	2	0	2100	2100	0
12/13/2024 14:38	42503	ALTA_T2	0	0	0	0	0	0	0.17	0.1	0	0	0	0	0	0
12/13/2024 14:38	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 14:39	44201	POIN_T1	42	132	90	0.16	0.29	0.13	-4.09	-4.14	4	4	0	4200	4200	0
12/13/2024 14:40	44201	POIN_T1	42	132	90	0.16	0.29	0.13	-2.04	-2.07	2	2	0	2100	2100	0
12/13/2024 14:46	20601	GRWO_T2	1	1	0	1.2	1.6	0.4	0	0	0	0	0	0	0	0
12/13/2024 14:46	20603	GRWO_T2	0	2	2	0	0	0	-0.56	-0.57	1	1	0	900	900	0
12/13/2024 14:48	45002	LIME_2	1	1	0	4.8	4.6	-0.2	0.59	0.58	0	0	0	0	0	0
12/13/2024 14:48	45003	LIME_2	1	1	0	4	3.7	-0.3	0	0	0	0	0	0	0	0
12/13/2024 14:48	45001	LIME_2	27	1	-26	0.29	0.2	-0.09	0	0	0	0	0	0	0	0
12/13/2024 14:49	14205	EALL_T2	0	0	0	0	0	0	-0.47	-0.44	0	0	0	0	0	0
12/13/2024 14:50	53501	EVIL_T2	2	2	0	0.45	0.45	0	-0.92	-0.79	1	1	0	600	600	0
12/13/2024 14:51	59002	MIFF_T1	3	6	3	0.27	0.4	0.13	0	0	0	0	0	0	0	0
12/13/2024 14:51	59003	MIFF_T1	1	1	0	0.1	0.9	0.8	0.95	-0.22	0	0	0	0	0	0
12/13/2024 14:53	24201	PROV_T3	15	1	-14	0.59	7.4	6.81	-1.41	-1.39	1	1	0	1200	1200	0
12/13/2024 14:53	24205	PROV_T3	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/13/2024 14:53	24204	PROV_T3	2	1	-1	2.9	6.2	3.3	0	0	0	0	0	0	0	0
12/13/2024 14:53	14603	SWHI_T1	1	0	-1	0.1	0	-0.1	-0.95	-0.97	1	1	0	600	600	0
12/13/2024 14:57	14603	SWHI_T1	1	0	-1	0.1	0	-0.1	-0.95	-0.97	1	1	0	600	600	0
12/13/2024 14:58	60201	ATGL_T2	0	0	0	0	0	0	-0.27	-0.13	0	0	0	0	0	0
12/13/2024 14:59	18001	ZION_T1	2	2	0	9.65	9.55	-0.1	0	0	0	0	0	0	0	0
12/13/2024 15:08	54203	PENN_T1	19	19	0	0.68	0.75	0.07	0.66	0.7	0	0	0	0	0	0
12/13/2024 15:08	54201	PENN_T1	3	4	1	1.53	1.28	-0.25	0	0	0	0	0	0	0	0
12/13/2024 15:13	14801	TREI_T2	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
12/13/2024 15:31	41205	KENM_T2	0	0	0	0	0	0	-0.75	-0.75	1	1	0	600	600	0
12/13/2024 15:31	41202	KENM_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
12/13/2024 15:35	14502	SCHO_T1	1	1	0	2.6	3.6	1	0.29	0.29	0	0	0	0	0	0
12/13/2024 15:36	21701	SUBU_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
12/13/2024 15:36	21702	SUBU_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 15:36	21705	SUBU_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
12/13/2024 15:36	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 15:37	14801	TREI_T2	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
12/13/2024 15:49	54505	ENOL_T2	1	1	0	0.4	0.1	-0.3	-1.22	-1.2	1	1	0	600	600	0
12/13/2024 15:51	52001	LING_T1	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
12/13/2024 16:07	64204	KINZ_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
12/13/2024 16:07	64203	KINZ_T1	0	0	0	0	0	0	-0.1	-0.15	1	1	0	600	600	0
12/13/2024 16:27	60301	TWVA_T2	0	0	0	0	0	0	-1.89	-1.86	2	2	0	1800	1800	0
12/13/2024 17:42	52502	PROG_T2	0	0	0	0	0	0	-0.35	-0.37	1	1	0	900	900	0
12/13/2024 18:23	14204	EALL_T2	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
12/13/2024 18:30	26704	HEML_T2	0	0	0	0	0	0	-0.81	-0.78	1	1	0	1200	1200	0
12/13/2024 18:31	67702	WERN_T2	39	10	-29	0.31	0.5	0.19	0	0	0	0	0	0	0	0
12/13/2024 18:31	67703	WERN_T2	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
12/13/2024 18:32	55001	NEWP_T1	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
12/13/2024 18:32	55002	NEWP_T1	4	5	1	0.68	0.66	-0.02	0	0	0	0	0	0	0	0
12/13/2024 18:33	13302	ORVI_T2	9	4	-5	0.19	0.13	-0.06	0.93	0.9	0	0	0	0	0	0
12/13/2024 18:34	57101	SPHI_T2	0	6	6	0	0.27	0.27	0.31	0.32	0	0	0	0	0	0
12/13/2024 18:34	57106	SPHI_T2	3	3	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
12/13/2024 18:34	46002	BERW_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
12/13/2024 18:34	57104	SPHI_T2	2	2	0	3.75	4.1	0.35	0	0	0	0	0	0	0	0
12/13/2024 18:34	46004	BERW_T2	13	13	0	0.29	0.15	-0.14	0	0	0	0	0	0	0	0
12/13/2024 18:34	13502	MCMI_T1	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
12/13/2024 18:34	13501	MCMI_T1	2	2	0	1.15	0.3	-0.85	0	0	0	0	0	0	0	0
12/13/2024 18:35	10805	OHHI_T2	1	1	0	7	6.8	-0.2	-1.05	-1.03	1	1	0	600	600	0
12/13/2024 18:35	20601	GRWO_T2	3	3	0	0.5	1.1	0.6	0.07	0.05	0	0	0	0	0	0
12/13/2024 18:35	65503	MOJO_T2	0	0	0	0	0	0	-0.39	-0.35	0	0	0	0	0	0
12/13/2024 18:35	13503	MCMI_T2	0	0	0	0	0	0	-0.55	-0.52	0	0	0	0	0	0
12/13/2024 18:35	65502	MOJO_T2	0	47	47	0	0.11	0.11	0	0	0	0	0	0	0	0
12/13/2024 18:35	12402	MILF_T1	0	0	0	0	0	0	-1.22	-1.21	0	0	0	0	0	0
12/13/2024 18:35	20603	GRWO_T2	1	2	1	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
12/13/2024 18:36	61101	BERK_T5	3	3	0	0.97	0.27	-0.7	0	0	0	0	0	0	0	0
12/13/2024 18:36	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
12/13/2024 18:36	40101	HUNT_T2	455	499	44	1.27	1.22	-0.05	-1.55	-1.53	0	0	0	0	0	0
12/13/2024 18:36	13501	MCMI_T1	2	2	0	1.15	0.3	-0.85	0.48	0.46	0	0	0	0	0	0
12/13/2024 18:36	61102	BERK_T5	4	7	3	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
12/13/2024 18:36	61103	BERK_T5	63	172	109	0.16	0.16	0	0.09	0.09	0	0	0	0	0	0
12/13/2024 18:37	14203	EALL_T1	0	0	0	0	0	0	-0.38	-0.43	1	1	0	1200	1200	0
12/13/2024 18:37	13303	ORVI_T1	0	0	0	0	0	0	0.78	0.84	0	0	0	0	0	0
12/13/2024 18:37	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
12/13/2024 18:37	67002	STHI_T2	32	43	11	0.13	0.17	0.04	0.67	0.68	0	0	0	0	0	0
12/13/2024 18:37	14603	SWHI_T1	0	0	0	0	0	0	-0.86	-0.87	1	1	0	600	600	0
12/13/2024 18:37	64302	LINC_T2	0	0	0	0	0	0	1.13	1.12	0	0	0	0	0	0
12/13/2024 18:37	14201	EALL_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
12/13/2024 18:37	14801	TREI_T2	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
12/13/2024 18:37	66505	SMAN_T2	3	3	0	0.57	1.3	0.73	-0.5	-0.5	1	1	0	900	900	0
12/13/2024 18:37	13901	SEID_T1	0	0	0	0	0	0	-1.06	-1.05	1	1	0	1200	1200	0
12/13/2024 18:37	67001	STHI_T2	76	148	72	0.13	0.13	0	0	0	0	0	0	0	0	0
12/13/2024 18:37	13904	SEID_T1	19	22	3	0.89	0.46	-0.43	0	0	0	0	0	0	0	0
12/13/2024 18:37	63501	HEID_TBK1-2	1	36	35	0.1	0.48	0.38	-0.38	-0.42	1	1	0	900	900	0
12/13/2024 18:37	48302	ORWI_T2	2	2	0	1.4	1.4	0	-0.53	-0.54	0	0	0	0	0	0
12/13/2024 18:38	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/13/2024 18:38	54203	PENN_T1	18	18	0	0.53	0.68	0.15	0.7	0.67	0	0	0	0	0	0
12/13/2024 18:38	54201	PENN_T1	3	3	0	1.27	1.4	0.13	0	0	0	0	0	0	0	0
12/13/2024 18:38	47802	MOCA_T2	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
12/13/2024 18:38	67001	STHI_T2	76	148	72	0.13	0.13	0	0	0	0	0	0	0	0	0
12/13/2024 18:38	48302	ORWI_T2	2	2	0	1.4	1.4	0	0	0	0	0	0	0	0	0
12/13/2024 18:38	67002	STHI_T2	32	43	11	0.13	0.17	0.04	0.67	0.68	0	0	0	0	0	0
12/13/2024 18:39	60902	DONG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:39	67702	WERN_T2	39	10	-29	0.31	0.5	0.19	0	0	0	0	0	0	0	0
12/13/2024 18:39	62106	ELAN_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
12/13/2024 18:39	60201	ATGL_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
12/13/2024 18:39	24204	PROV_T3	1	2	1	6	3	-3	0	0	0	0	0	0	0	0
12/13/2024 18:39	67002	STHI_T2	32	43	11	0.13	0.17	0.04	1.34	1.36	0	0	0	0	0	0
12/13/2024 18:39	63501	HEID_TBK1-2	1	36	35	0.1	0.48	0.38	-0.38	-0.42	1	1	0	900	900	0
12/13/2024 18:39	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:39	67703	WERN_T2	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
12/13/2024 18:39	66505	SMAN_T2	3	3	0	0.57	1.3	0.73	0	0	0	0	0	0	0	0
12/13/2024 18:39	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:39	62105	ELAN_T1	0	0	0	0	0	0	0.61	0.57	0	0	0	0	0	0
12/13/2024 18:39	14802	TREI_T2	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
12/13/2024 18:39	24201	PROV_T3	1	3	2	7.7	7.5	-0.2	-1.36	-1.36	1	1	0	1200	1200	0
12/13/2024 18:39	14203	EALL_T1	0	0	0	0	0	0	-0.38	-0.43	1	1	0	1200	1200	0
12/13/2024 18:39	66504	SMAN_T2	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
12/13/2024 18:39	67001	STHI_T2	76	148	72	0.13	0.13	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/13/2024 18:39	44901	SCOT_T2	0	0	0	0	0	0	-0.17	-0.06	0	0	0	0	0	0
12/13/2024 18:39	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:39	24205	PROV_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 18:40	67002	STHI_T2	32	43	11	0.13	0.17	0.04	0.67	0.68	0	0	0	0	0	0
12/13/2024 18:40	44802	EDAN_T2	0	0	0	0	0	0	-2.08	-2.1	0	0	0	0	0	0
12/13/2024 18:40	46004	BERW_T2	13	13	0	0.29	0.15	-0.14	-0.65	-0.65	0	0	0	0	0	0
12/13/2024 18:40	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:40	63804	HEMP_T1	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
12/13/2024 18:40	65703	RVIL_T1	0	0	0	0	0	0	-0.38	-0.45	0	0	0	0	0	0
12/13/2024 18:40	41901	REED_T1	5	7	2	0.36	0.44	0.08	0	0	0	0	0	0	0	0
12/13/2024 18:40	41205	KENM_T2	0	0	0	0	0	0	-0.76	-0.75	1	1	0	600	600	0
12/13/2024 18:40	44801	EDAN_T2	2	2	0	3	0.2	-2.8	0	0	0	0	0	0	0	0
12/13/2024 18:40	67402	WAKE_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
12/13/2024 18:40	42503	ALTA_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
12/13/2024 18:40	41902	REED_T1	5	29	24	0.38	0.5	0.12	0	0	0	0	0	0	0	0
12/13/2024 18:40	43103	SMIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:40	47203	FAXO_T2	1	1	0	0.5	0.1	-0.4	-1.65	-1.66	1	1	0	1200	1200	0
12/13/2024 18:40	43102	SMIL_T2	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
12/13/2024 18:40	55002	NEWP_T1	4	5	1	0.68	0.66	-0.02	-0.15	-0.16	0	0	0	0	0	0
12/13/2024 18:40	66505	SMAN_T2	3	3	0	0.57	1.3	0.73	-0.5	-0.5	1	1	0	900	900	0
12/13/2024 18:40	65401	MARI_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
12/13/2024 18:40	46203	DANV_T2	7	1	-6	0.61	0	-0.61	0	0	0	0	0	0	0	0
12/13/2024 18:40	64801	MONE_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
12/13/2024 18:40	43101	SMIL_T2	1	2	1	2.3	0.7	-1.6	0	0	0	0	0	0	0	0
12/13/2024 18:40	67001	STHI_T2	76	148	72	0.13	0.13	0	0	0	0	0	0	0	0	0
12/13/2024 18:40	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
12/13/2024 18:40	46206	DANV_T2	1	0	-1	1.3	0	-1.3	1.23	0.4	2	2	0	2100	2100	0
12/13/2024 18:40	48301	ORWI_T1	2	2	0	5.8	5.7	-0.1	-0.53	-0.57	1	1	0	900	900	0
12/13/2024 18:40	40101	HUNT_T2	455	499	44	1.27	1.22	-0.05	-1.55	-1.53	0	0	0	0	0	0
12/13/2024 18:40	63802	HEMP_T1	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
12/13/2024 18:41	43102	SMIL_T2	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
12/13/2024 18:41	65207	PRIN_T4	3	4	1	1.87	1.88	0.01	0	0	1	1	0	1200	1200	0
12/13/2024 18:41	13101	NHAM_T1	2	2	0	1.35	1.2	-0.15	-2.75	-2.75	2	2	0	2400	2400	0
12/13/2024 18:41	14205	EALL_T2	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
12/13/2024 18:41	60504	NMAN_T2	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
12/13/2024 18:41	63501	HEID_TBK1-2	1	36	35	0.1	0.48	0.38	0	0	0	0	0	0	0	0
12/13/2024 18:41	43103	SMIL_T2	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
12/13/2024 18:41	64602	LEOL_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
12/13/2024 18:41	67702	WERN_T2	39	10	-29	0.31	0.5	0.19	0	0	0	0	0	0	0	0
12/13/2024 18:41	67703	WERN_T2	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
12/13/2024 18:41	55002	NEWP_T1	4	5	1	0.68	0.66	-0.02	-0.15	-0.16	0	0	0	0	0	0
12/13/2024 18:41	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:41	24202	PROV_T4	0	0	0	0	0	0	-0.72	-0.72	1	1	0	1200	1200	0
12/13/2024 18:41	67002	STHI_T2	32	43	11	0.13	0.17	0.04	1.34	1.36	0	0	0	0	0	0
12/13/2024 18:41	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:41	43108	SMIL_T2	0	0	0	0	0	0	-1.28	-1.26	1	1	0	1200	1200	0
12/13/2024 18:41	67001	STHI_T2	76	148	72	0.13	0.13	0	0.17	0.17	0	0	0	0	0	0
12/13/2024 18:41	14801	TREI_T2	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
12/13/2024 18:41	64204	KINZ_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
12/13/2024 18:41	64201	KINZ_T1	0	1	1	0	0	0	-0.54	-0.58	3	3	0	1500	1500	0
12/13/2024 18:41	44201	POIN_T1	1	34	33	0.1	0.18	0.08	-2.08	-2.1	2	2	0	2100	2100	0
12/13/2024 18:41	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:41	13302	ORVI_T2	9	4	-5	0.19	0.13	-0.06	0.9	0.95	0	0	0	0	0	0
12/13/2024 18:41	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:41	42501	ALTA_T2	0	0	0	0	0	0	0.26	0.15	2	2	0	1200	1200	0
12/13/2024 18:41	47901	HRDG_T1	0	0	0	0	0	0	0.86	0.59	0	0	0	0	0	0
12/13/2024 18:41	43101	SMIL_T2	1	2	1	2.3	0.7	-1.6	0	0	0	0	0	0	0	0
12/13/2024 18:41	25501	MADI_T1	22	11	-11	0.86	2.15	1.29	-0.15	-0.13	1	1	0	600	600	0
12/13/2024 18:42	44801	EDAN_T2	2	2	0	3	0.2	-2.8	0	0	0	0	0	0	0	0
12/13/2024 18:42	66504	SMAN_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
12/13/2024 18:42	66505	SMAN_T2	3	3	0	0.57	1.3	0.73	0	0	0	0	0	0	0	0
12/13/2024 18:42	54506	ENOL_T2	0	0	0	0	0	0	0.44	0.42	0	1	1	0	600	600
12/13/2024 18:42	42802	SELI_T1	0	0	0	0	0	0	-2.58	-2.58	1	1	0	900	900	0
12/13/2024 18:42	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:42	45501	DERR_T2	0	5	5	0	0.3	0.3	0.47	0.6	2	2	0	1800	1800	0
12/13/2024 18:42	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
12/13/2024 18:42	55002	NEWP_T1	4	5	1	0.68	0.66	-0.02	-0.15	-0.16	0	0	0	0	0	0
12/13/2024 18:42	61103	BERK_T5	63	172	109	0.16	0.16	0	0.05	0.05	0	0	0	0	0	0
12/13/2024 18:42	67702	WERN_T2	39	10	-29	0.31	0.5	0.19	0	0	0	0	0	0	0	0
12/13/2024 18:42	21701	SUBU_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
12/13/2024 18:42	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:42	67703	WERN_T2	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
12/13/2024 18:42	48902	FOSP_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
12/13/2024 18:42	25501	MADI_T1	22	11	-11	0.86	2.15	1.29	0	0	0	0	0	0	0	0
12/13/2024 18:42	21702	SUBU_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:42	61101	BERK_T5	3	3	0	0.97	0.27	-0.7	0	0	0	0	0	0	0	0
12/13/2024 18:42	61102	BERK_T5	4	7	3	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
12/13/2024 18:42	44802	EDAN_T2	0	0	0	0	0	0	-2.08	-2.1	0	0	0	0	0	0
12/13/2024 18:42	25501	MADI_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
12/13/2024 18:42	45502	DERR_T2	2	2	0	0.65	0.3	-0.35	0	0	0	0	0	0	0	0
12/13/2024 18:42	21705	SUBU_T1	2	2	0	5.6	4.05	-1.55	0	0	0	0	0	0	0	0
12/13/2024 18:43	44601	SALE_T2	0	0	0	0	0	0	-0.07	-0.12	0	0	0	0	0	0
12/13/2024 18:43	64902	MILL_T2	0	0	0	0	0	0	-0.6	-0.59	1	1	0	900	900	0
12/13/2024 18:43	65502	MOJO_T2	0	47	47	0	0.11	0.11	0	0	0	0	0	0	0	0
12/13/2024 18:43	54201	PENN_T1	3	3	0	1.27	1.4	0.13	0.04	0	0	0	0	0	0	0
12/13/2024 18:43	46206	DANV_T2	1	0	-1	1.3	0	-1.3	1.23	0.4	2	2	0	2100	2100	0
12/13/2024 18:43	65503	MOJO_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
12/13/2024 18:43	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:43	64101	REFR_T1	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
12/13/2024 18:43	41602	CLEV_T1	0	59	59	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:43	61103	BERK_T5	63	172	109	0.16	0.16	0	0.05	0.05	0	0	0	0	0	0
12/13/2024 18:43	54203	PENN_T1	18	18	0	0.53	0.68	0.15	0	0	0	0	0	0	0	0
12/13/2024 18:43	67605	WARW_T1	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
12/13/2024 18:43	65303	NBRI_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
12/13/2024 18:43	61102	BERK_T5	4	7	3	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
12/13/2024 18:43	64204	KINZ_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
12/13/2024 18:43	64201	KINZ_T1	0	1	1	0	0	0	-0.54	-0.58	3	3	0	1500	1500	0
12/13/2024 18:43	67002	STHI_T2	32	43	11	0.13	0.17	0.04	0	0	0	0	0	0	0	0
12/13/2024 18:43	67001	STHI_T2	76	148	72	0.13	0.13	0	0.17	0.17	0	0	0	0	0	0
12/13/2024 18:43	14601	SWHI_T1	0	0	0	0	0	0	-1.38	-1.35	0	0	0	0	0	0
12/13/2024 18:43	46203	DANV_T2	7	1	-6	0.61	0	-0.61	0	0	0	0	0	0	0	0
12/13/2024 18:43	67703	WERN_T2	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
12/13/2024 18:43	61101	BERK_T5	3	3	0	0.97	0.27	-0.7	0	0	0	0	0	0	0	0
12/13/2024 18:43	67702	WERN_T2	39	10	-29	0.31	0.5	0.19	0	0	0	0	0	0	0	0
12/13/2024 18:43	44801	EDAN_T2	2	2	0	3	0.2	-2.8	0	0	0	0	0	0	0	0
12/13/2024 18:43	44802	EDAN_T2	0	0	0	0	0	0	-2.08	-2.1	0	0	0	0	0	0
12/13/2024 18:43	13302	ORVI_T2	9	4	-5	0.19	0.13	-0.06	0.9	0.95	0	0	0	0	0	0
12/13/2024 18:43	48901	FOSP_T2	0	0	0	0	0	0	0.32	0.28	0	0	0	0	0	0
12/13/2024 18:44	54505	ENOL_T2	0	0	0	0	0	0	-1.09	-1.06	1	1	0	600	600	0
12/13/2024 18:44	60502	NMAN_T2	0	0	0	0	0	0	-0.59	-0.32	0	0	0	0	0	0
12/13/2024 18:44	63501	HEID_TBK1-2	1	36	35	0.1	0.48	0.38	-0.38	-0.42	1	1	0	900	900	0
12/13/2024 18:44	24104	EHAZ_T1	0	0	0	0	0	0	-2.2	-2.21	1	1	0	1200	1200	0
12/13/2024 18:44	63804	HEMP_T1	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
12/13/2024 18:44	24101	EHAZ_T1	71	71	0	1.49	2.4	0.91	0	0	0	0	0	0	0	0
12/13/2024 18:44	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:44	61103	BERK_T5	63	172	109	0.16	0.16	0	0.05	0.05	0	0	0	0	0	0
12/13/2024 18:44	61101	BERK_T5	3	3	0	0.97	0.27	-0.7	0	0	0	0	0	0	0	0
12/13/2024 18:44	61102	BERK_T5	4	7	3	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
12/13/2024 18:44	24102	EHAZ_T1	10	29	19	1.12	0.45	-0.67	0	0	0	0	0	0	0	0
12/13/2024 18:44	64101	REFR_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
12/13/2024 18:44	65401	MARI_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
12/13/2024 18:44	54501	ENOL_T2	0	0	0	0	0	0	0.17	0.22	0	0	0	0	0	0
12/13/2024 18:44	13503	MCMI_T2	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
12/13/2024 18:44	61302	EARL_T1	0	0	0	0	0	0	-0.22	-0.21	2	2	0	1800	1800	0
12/13/2024 18:44	59101	WALK_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
12/13/2024 18:44	24105	EHAZ_T1	37	32	-5	1.49	1.47	-0.02	0	0	0	0	0	0	0	0
12/13/2024 18:44	67703	WERN_T2	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
12/13/2024 18:44	67702	WERN_T2	39	10	-29	0.31	0.5	0.19	0	0	0	0	0	0	0	0
12/13/2024 18:44	63802	HEMP_T1	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
12/13/2024 18:44	44801	EDAN_T2	2	2	0	3	0.2	-2.8	0	0	0	0	0	0	0	0
12/13/2024 18:44	44802	EDAN_T2	0	0	0	0	0	0	-2.08	-2.1	0	0	0	0	0	0
12/13/2024 18:45	53502	EVIL_T2	0	0	0	0	0	0	-0.48	-0.47	2	2	0	1200	1200	0
12/13/2024 18:45	64802	MONE_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
12/13/2024 18:45	65703	RVIL_T1	0	0	0	0	0	0	-0.38	-0.45	0	0	0	0	0	0
12/13/2024 18:45	13302	ORVI_T2	4	0	-4	0.13	0	-0.13	0.9	0.95	0	0	0	0	0	0
12/13/2024 18:45	40701	FFLD_T1	18	17	-1	0.18	0.19	0.01	0	0	0	0	0	0	0	0
12/13/2024 18:45	14603	SWHI_T1	0	0	0	0	0	0	-0.86	-0.87	1	1	0	600	600	0
12/13/2024 18:45	10801	CHHI_T1	0	0	0	0	0	0	-1.35	-1.36	2	2	0	1500	1500	0
12/13/2024 18:45	65502	MOJO_T2	0	47	47	0	0.11	0.11	0	0	0	0	0	0	0	0
12/13/2024 18:45	45501	DERR_T2	5	4	-1	0.24	0.35	0.11	0.47	0.6	2	2	0	1800	1800	0
12/13/2024 18:45	61602	BING_T2	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
12/13/2024 18:45	44601	SALE_T2	0	0	0	0	0	0	-0.07	-0.12	0	0	0	0	0	0
12/13/2024 18:45	65503	MOJO_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
12/13/2024 18:45	44201	POIN_T1	15	34	19	0.1	0.18	0.08	-2.08	-2.1	2	2	0	2100	2100	0
12/13/2024 18:45	14601	SWHI_T1	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
12/13/2024 18:45	45502	DERR_T2	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/13/2024 18:45	54601	SUMM_T2	1	1	0	0.4	0.3	-0.1	-1.66	-1.72	2	2	0	2100	2100	0
12/13/2024 18:45	53501	EVIL_T2	2	4	2	1.25	0.57	-0.68	-0.89	-0.89	1	1	0	600	600	0
12/13/2024 18:45	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:45	40702	FFLD_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
12/13/2024 18:45	43102	SMIL_T2	5	6	1	0.12	0.27	0.15	0	0	0	0	0	0	0	0
12/13/2024 18:45	67605	WARW_T1	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
12/13/2024 18:45	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:45	67604	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:45	57702	PAXT_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
12/13/2024 18:45	40703	FFLD_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/13/2024 18:45	41801	GOO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/13/2024 18:45	43101	SMIL_T2	2	1	-1	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
12/13/2024 18:45	43108	SMIL_T2	0	0	0	0	0	0	-1.28	-1.26	1	1	0	1200	1200	0
12/13/2024 18:46	43801	SWIL_T1	2	2	0	3.25	3.2	-0.05	0	0	0	0	0	0	0	0
12/13/2024 18:46	45003	LIME_2	7	16	9	0.56	2.1	1.54	0.36	0.38	0	0	0	0	0	0
12/13/2024 18:46	65502	MOJO_T2	0	47	47	0	0.11	0.11	-0.95	-0.97	0	0	0	0	0	0
12/13/2024 18:46	65205	PRIN_T1	2	1	-1	1.4	1.7	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/13/2024 18:46	40601	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 18:46	45502	DERR_T2	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/13/2024 18:46	67002	STHI_T2	35	41	6	0.14	0.17	0.03	0.67	0.68	0	0	0	0	0	0
12/13/2024 18:46	40603	PIGR_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/13/2024 18:46	45501	DERR_T2	5	4	-1	0.24	0.35	0.11	0.47	0.6	2	2	0	1800	1800	0
12/13/2024 18:46	40602	PIGR_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
12/13/2024 18:46	44505	HAMI_T2	0	0	0	0	0	0	0.24	0.27	0	0	0	0	0	0
12/13/2024 18:46	45802	HEGI_T2	7	18	11	0.26	0.32	0.06	0	0	0	0	0	0	0	0
12/13/2024 18:46	45002	LIME_2	1	1	0	4	4.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 18:46	67703	WERN_T2	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
12/13/2024 18:46	41002	LAUR_T2	4	4	0	0.83	0.63	-0.2	-0.89	-0.89	0	0	0	0	0	0
12/13/2024 18:46	61102	BERK_T5	3	7	4	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
12/13/2024 18:46	44201	POIN_T1	15	34	19	0.1	0.18	0.08	-2.08	-2.1	2	2	0	2100	2100	0
12/13/2024 18:46	45001	LIME_2	6	20	14	0.15	0.19	0.04	0	0	0	0	0	0	0	0
12/13/2024 18:46	41001	LAUR_T2	0	3	3	0	1.45	1.45	0	0	0	0	0	0	0	0
12/13/2024 18:46	67001	STHI_T2	86	147	61	0.12	0.13	0.01	0	0	0	0	0	0	0	0
12/13/2024 18:46	63801	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:46	61101	BERK_T5	3	3	0	0.47	0	-0.47	0	0	0	0	0	0	0	0
12/13/2024 18:46	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:46	42701	AUGU_T1	0	1	1	0	0	0	0	0	2	2	0	1800	1800	0
12/13/2024 18:46	63804	HEMP_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
12/13/2024 18:46	44502	HAMI_T2	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
12/13/2024 18:46	54503	ENOL_T2	0	0	0	0	0	0	-0.34	-0.33	1	1	0	600	600	0
12/13/2024 18:46	61103	BERK_T5	74	173	99	0.16	0.16	0	0.05	0.05	0	0	0	0	0	0
12/13/2024 18:46	40101	HUNT_T2	458	498	40	1.21	1.61	0.4	-1.55	-1.53	0	0	0	0	0	0
12/13/2024 18:46	63803	HEMP_T1	0	0	0	0	0	0	0.59	0.55	0	0	0	0	0	0
12/13/2024 18:46	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:46	55002	NEWP_T1	4	5	1	0.8	0.54	-0.26	-0.15	-0.16	0	0	0	0	0	0
12/13/2024 18:46	67702	WERN_T2	10	2	-8	0.39	0.5	0.11	0	0	0	0	0	0	0	0
12/13/2024 18:47	48302	ORWI_T2	2	2	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
12/13/2024 18:47	57205	ROSS_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
12/13/2024 18:47	61102	BERK_T5	3	7	4	0.2	0.17	-0.03	0.54	0.52	1	1	0	300	300	0
12/13/2024 18:47	54504	ENOL_T2	0	0	0	0	0	0	-0.96	-0.95	1	1	0	600	600	0
12/13/2024 18:47	10701	CATA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/13/2024 18:47	67703	WERN_T2	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
12/13/2024 18:47	40701	FFLD_T1	18	17	-1	0.18	0.19	0.01	0	0	0	0	0	0	0	0
12/13/2024 18:47	41901	REED_T1	7	5	-2	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
12/13/2024 18:47	41902	REED_T1	25	31	6	0.41	0.5	0.09	0.38	0.34	1	1	0	900	900	0
12/13/2024 18:47	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:47	64101	REFR_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
12/13/2024 18:47	48303	ORWI_T2	0	0	0	0	0	0	0.86	0.84	0	0	0	0	0	0
12/13/2024 18:47	14204	EALL_T2	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
12/13/2024 18:47	13501	MCMI_T1	2	3	1	0.3	1.25	0.95	0	0	0	0	0	0	0	0
12/13/2024 18:47	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:47	20603	GRWO_T2	1	2	1	0.6	0	-0.6	-0.46	-0.51	1	1	0	900	900	0
12/13/2024 18:47	61103	BERK_T5	74	173	99	0.16	0.16	0	0.05	0.05	0	0	0	0	0	0
12/13/2024 18:47	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:47	61101	BERK_T5	3	3	0	0.47	0	-0.47	0	0	0	0	0	0	0	0
12/13/2024 18:47	67702	WERN_T2	10	2	-8	0.39	0.5	0.11	0	0	0	0	0	0	0	0
12/13/2024 18:47	40101	HUNT_T2	458	498	40	1.21	1.61	0.4	-1.55	-1.53	0	0	0	0	0	0
12/13/2024 18:47	54203	PENN_T1	18	18	0	0.66	0.69	0.03	1.4	1.34	0	0	0	0	0	0
12/13/2024 18:47	59002	MIFF_T1	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
12/13/2024 18:47	63501	HEID_TBK1-2	3	37	34	0.4	0.48	0.08	-0.38	-0.42	1	1	0	900	900	0
12/13/2024 18:47	40901	JESH_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
12/13/2024 18:47	10801	CHHI_T1	0	0	0	0	0	0	-1.35	-1.36	2	2	0	1500	1500	0
12/13/2024 18:47	14601	SWHI_T1	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
12/13/2024 18:47	40703	FFLD_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/13/2024 18:47	57201	ROSS_T1	8	13	5	0.13	0.15	0.02	0	0	0	0	0	0	0	0
12/13/2024 18:47	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:47	53101	WTWN_T1	1	1	0	1.1	0.3	-0.8	0	0	0	0	0	0	0	0
12/13/2024 18:47	20601	GRWO_T2	3	3	0	1.13	0.77	-0.36	0	0	0	0	0	0	0	0
12/13/2024 18:47	59003	MIFF_T1	1	1	0	0.2	0.1	-0.1	0.35	0.39	0	0	0	0	0	0
12/13/2024 18:47	40702	FFLD_T1	2	2	0	0.25	0.3	0.05	-0.6	-0.68	1	1	0	1200	1200	0
12/13/2024 18:47	10705	CATA_T2	0	0	0	0	0	0	-0.68	-0.75	1	1	0	900	900	0
12/13/2024 18:47	54201	PENN_T1	3	3	0	1.33	1.43	0.1	0	0	0	0	0	0	0	0
12/13/2024 18:48	45001	LIME_2	6	20	14	0.15	0.19	0.04	0	0	0	0	0	0	0	0
12/13/2024 18:48	66505	SMAN_T2	3	3	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
12/13/2024 18:48	61103	BERK_T5	74	173	99	0.16	0.16	0	0.05	0.05	0	0	0	0	0	0
12/13/2024 18:48	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:48	62106	ELAN_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
12/13/2024 18:48	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:48	44201	POIN_T1	15	34	19	0.1	0.18	0.08	-2.08	-2.1	2	2	0	2100	2100	0
12/13/2024 18:48	52502	PROG_T2	0	0	0	0	0	0	-0.75	-0.69	2	2	0	1800	1800	0
12/13/2024 18:48	20601	GRWO_T2	3	3	0	1.13	0.77	-0.36	0.05	0.02	0	0	0	0	0	0
12/13/2024 18:48	46004	BERW_T2	3	14	11	0.27	0.15	-0.12	-0.65	-0.65	0	0	0	0	0	0
12/13/2024 18:48	60502	NMAN_T2	0	0	0	0	0	0	-0.3	-0.16	0	0	0	0	0	0
12/13/2024 18:48	20603	GRWO_T2	1	2	1	0.6	0	-0.6	-0.46	-0.51	1	1	0	900	900	0
12/13/2024 18:48	45003	LIME_2	7	16	9	0.56	2.1	1.54	0.36	0.38	0	0	0	0	0	0
12/13/2024 18:48	67001	STHI_T2	86	147	61	0.12	0.13	0.01	0	0	0	0	0	0	0	0
12/13/2024 18:48	45002	LIME_2	1	1	0	4	4.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 18:48	61101	BERK_T5	3	3	0	0.47	0	-0.47	0	0	0	0	0	0	0	0
12/13/2024 18:48	67002	STHI_T2	35	41	6	0.14	0.17	0.03	0.67	0.68	0	0	0	0	0	0
12/13/2024 18:48	61102	BERK_T5	3	7	4	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
12/13/2024 18:48	65401	MARI_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
12/13/2024 18:49	54501	ENOL_T2	0	0	0	0	0	0	0.17	0.22	0	0	0	0	0	0
12/13/2024 18:49	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:49	18001	ZION_T1	2	2	0	8.35	8.45	0.1	0	0	0	0	0	0	0	0
12/13/2024 18:49	67401	WAKE_T2	0	0	0	0	0	0	-1.09	-1.11	0	0	0	0	0	0
12/13/2024 18:49	63804	HEMP_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
12/13/2024 18:49	57106	SPHI_T2	3	3	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
12/13/2024 18:49	61001	DONV_T1	0	0	0	0	0	0	0	-0.05	0	0	0	0	0	0
12/13/2024 18:49	59101	WALK_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
12/13/2024 18:49	67001	STHI_T2	86	147	61	0.12	0.13	0.01	0	0	0	0	0	0	0	0
12/13/2024 18:49	57704	PAXT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:49	57104	SPHI_T2	1	1	0	2.1	2	-0.1	-3.58	-3.58	2	2	0	1800	1800	0
12/13/2024 18:49	14502	SCHO_T1	1	1	0	2	2.1	0.1	0.39	0.38	0	0	0	0	0	0
12/13/2024 18:49	57703	PAXT_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:49	63801	HEMP_T1	0	1	1	0	0	0	-0.22	0.21	0	0	0	0	0	0
12/13/2024 18:49	64204	KINZ_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
12/13/2024 18:49	42301	MOWR_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
12/13/2024 18:49	43202	MVIL_T2	1	1	0	0.3	0	-0.3	-0.55	-0.58	0	0	0	0	0	0
12/13/2024 18:49	67002	STHI_T2	35	41	6	0.14	0.17	0.03	0.67	0.68	0	0	0	0	0	0
12/13/2024 18:49	20501	HGTN_T1	0	0	0	0	0	0	-0.49	-0.48	2	2	0	1200	1200	0
12/13/2024 18:49	67605	WARW_T1	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
12/13/2024 18:49	60801	BUCK_T1	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
12/13/2024 18:49	60502	NMAN_T2	0	0	0	0	0	0	-0.3	-0.16	0	0	0	0	0	0
12/13/2024 18:49	20502	HGTN_T1	3	3	0	5.5	5.57	0.07	0	0	0	0	0	0	0	0
12/13/2024 18:49	64201	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/13/2024 18:49	44801	EDAN_T2	2	1	-1	3.8	0.5	-3.3	-0.63	-0.65	0	0	0	0	0	0
12/13/2024 18:49	57101	SPHI_T2	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
12/13/2024 18:50	41801	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/13/2024 18:50	52001	LING_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
12/13/2024 18:50	55002	NEWP_T1	4	5	1	0.8	0.54	-0.26	-0.15	-0.16	0	0	0	0	0	0
12/13/2024 18:50	61101	BERK_T5	3	3	0	0.47	0	-0.47	0	0	0	0	0	0	0	0
12/13/2024 18:50	44902	SCOT_T2	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
12/13/2024 18:50	45001	LIME_2	6	20	14	0.15	0.19	0.04	0	0	0	0	0	0	0	0
12/13/2024 18:50	63804	HEMP_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
12/13/2024 18:50	45002	LIME_2	1	1	0	4	4.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 18:50	59102	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:50	40902	JESH_T1	0	0	0	0	0	0	-1.21	-1.24	1	1	0	600	600	0
12/13/2024 18:50	64101	REFR_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
12/13/2024 18:50	57101	SPHI_T2	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
12/13/2024 18:50	57104	SPHI_T2	1	1	0	2.1	2	-0.1	-1.79	-1.79	1	1	0	900	900	0
12/13/2024 18:50	43102	SMIL_T2	5	6	1	0.12	0.27	0.15	-0.82	-0.84	1	1	0	600	600	0
12/13/2024 18:50	63801	HEMP_T1	0	1	1	0	0	0	-0.22	0.21	0	0	0	0	0	0
12/13/2024 18:50	45003	LIME_2	7	16	9	0.56	2.1	1.54	0	0	0	0	0	0	0	0
12/13/2024 18:50	44201	POIN_T1	15	34	19	0.1	0.18	0.08	-2.08	-2.1	2	2	0	2100	2100	0
12/13/2024 18:50	43101	SMIL_T2	2	1	-1	0.85	0.7	-0.15	-0.58	-0.6	0	0	0	0	0	0
12/13/2024 18:50	42501	ALTA_T2	0	0	0	0	0	0	0.13	0.08	1	1	0	600	600	0
12/13/2024 18:50	57106	SPHI_T2	3	3	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
12/13/2024 18:50	67002	STHI_T2	35	41	6	0.14	0.17	0.03	0	0	0	0	0	0	0	0
12/13/2024 18:50	24205	PROV_T3	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/13/2024 18:50	24201	PROV_T3	1	3	2	7.5	2.8	-4.7	-1.36	-1.36	1	1	0	1200	1200	0
12/13/2024 18:50	61102	BERK_T5	3	7	4	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
12/13/2024 18:50	61103	BERK_T5	74	173	99	0.16	0.16	0	0.05	0.05	0	0	0	0	0	0
12/13/2024 18:50	24204	PROV_T3	1	2	1	5.9	3.05	-2.85	0	0	0	0	0	0	0	0
12/13/2024 18:50	40901	JESH_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
12/13/2024 18:50	67001	STHI_T2	86	147	61	0.12	0.13	0.01	0.17	0.17	0	0	0	0	0	0
12/13/2024 18:50	45802	HEGI_T2	7	18	11	0.26	0.32	0.06	0.62	0.62	0	0	0	0	0	0
12/13/2024 18:51	40701	FFLD_T1	18	17	-1	0.18	0.19	0.01	0	0	0	0	0	0	0	0
12/13/2024 18:51	44905	SCOT_T1	12	32	20	0.34	0.36	0.02	0	0	0	0	0	0	0	0
12/13/2024 18:51	57104	SPHI_T2	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
12/13/2024 18:51	44502	HAMI_T2	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
12/13/2024 18:51	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:51	66505	SMAN_T2	3	3	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
12/13/2024 18:51	44801	EDAN_T2	2	1	-1	3.8	0.5	-3.3	0	0	0	0	0	0	0	0
12/13/2024 18:51	40702	FFLD_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
12/13/2024 18:51	44802	EDAN_T2	0	0	0	0	0	0	-4.19	-4.22	0	0	0	0	0	0
12/13/2024 18:51	45802	HEGI_T2	7	18	11	0.26	0.32	0.06	0.62	0.65	0	0	0	0	0	0
12/13/2024 18:51	43102	SMIL_T2	5	6	1	0.12	0.27	0.15	0	0	0	0	0	0	0	0
12/13/2024 18:51	44301	BEAV_T2	3	3	0	1.13	0.2	-0.93	-0.68	-0.63	1	1	0	600	600	0
12/13/2024 18:51	60502	NMAN_T2	0	0	0	0	0	0	-0.16	-0.31	0	0	0	0	0	0
12/13/2024 18:51	66503	SMAN_T2	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
12/13/2024 18:51	57101	SPHI_T2	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
12/13/2024 18:51	59101	WALK_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
12/13/2024 18:51	55002	NEWP_T1	4	5	1	0.8	0.54	-0.26	-0.15	-0.16	0	0	0	0	0	0
12/13/2024 18:51	40703	FFLD_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/13/2024 18:51	43101	SMIL_T2	2	1	-1	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
12/13/2024 18:51	58202	NEWV_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
12/13/2024 18:51	44505	HAMI_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
12/13/2024 18:51	63501	HEID_TBK1-2	3	37	34	0.4	0.48	0.08	-0.85	-0.91	2	2	0	1800	1800	0
12/13/2024 18:51	57106	SPHI_T2	3	3	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
12/13/2024 18:51	43103	SMIL_T2	0	0	0	0	0	0	-0.84	-0.86	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/13/2024 18:52	43102	SMIL_T2	5	6	1	0.12	0.27	0.15	-0.84	-0.84	1	1	0	600	600	0
12/13/2024 18:52	53102	WTWN_T1	0	0	0	0	0	0	-0.46	-0.51	0	0	0	0	0	0
12/13/2024 18:52	57101	SPHI_T2	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
12/13/2024 18:52	60502	NMAN_T2	0	0	0	0	0	0	-0.16	-0.31	0	0	0	0	0	0
12/13/2024 18:52	44502	HAMI_T2	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
12/13/2024 18:52	57104	SPHI_T2	1	1	0	2.1	2	-0.1	-1.79	-1.78	1	1	0	900	900	0
12/13/2024 18:52	49804	UNIV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:52	43101	SMIL_T2	2	1	-1	0.85	0.7	-0.15	0	0	0	0	0	0	0	0
12/13/2024 18:52	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:52	57106	SPHI_T2	3	3	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
12/13/2024 18:52	49803	UNIV_T1	1	1	0	6.5	6.5	0	-0.84	-0.88	0	0	0	0	0	0
12/13/2024 18:52	59101	WALK_T2	0	0	0	0	0	0	0	-0.38	0	0	0	0	0	0
12/13/2024 18:52	43202	MVIL_T2	1	1	0	0.3	0	-0.3	-0.58	-0.57	0	0	0	0	0	0
12/13/2024 18:52	46206	DANV_T2	0	0	0	0	0	0	0.4	0.9	2	2	0	2100	2100	0
12/13/2024 18:52	46203	DANV_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 18:52	53101	WTWN_T1	1	1	0	1.1	0.3	-0.8	0	0	0	0	0	0	0	0
12/13/2024 18:52	64101	REFR_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
12/13/2024 18:53	64101	REFR_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
12/13/2024 18:53	57101	SPHI_T2	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
12/13/2024 18:53	45002	LIME_2	1	1	0	4	4.1	0.1	0	0	0	0	0	0	0	0
12/13/2024 18:53	57104	SPHI_T2	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
12/13/2024 18:53	57701	PAXT_T1	0	0	0	0	0	0	-1.02	-1.02	1	1	0	900	900	0
12/13/2024 18:53	45001	LIME_2	6	20	14	0.15	0.19	0.04	0	0	0	0	0	0	0	0
12/13/2024 18:53	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:53	11104	EGYP_T1	2	13	11	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
12/13/2024 18:53	11103	EGYP_T1	0	0	0	0	0	0	0.49	0.52	0	0	0	0	0	0
12/13/2024 18:53	53501	EVIL_T2	2	4	2	1.25	0.57	-0.68	-0.89	-0.79	1	1	0	600	600	0
12/13/2024 18:53	67605	WARW_T1	0	0	0	0	0	0	-0.98	-1.12	0	0	0	0	0	0
12/13/2024 18:53	52502	PROG_T2	0	0	0	0	0	0	-0.35	-0.38	1	1	0	900	900	0
12/13/2024 18:53	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:53	45003	LIME_2	7	16	9	0.56	2.1	1.54	0	0	0	0	0	0	0	0
12/13/2024 18:53	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:53	57106	SPHI_T2	3	3	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
12/13/2024 18:53	64802	MONE_T2	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
12/13/2024 18:53	44905	SCOT_T1	12	32	20	0.34	0.36	0.02	0	0	0	0	0	0	0	0
12/13/2024 18:54	44802	EDAN_T2	0	0	0	0	0	0	-2.1	-2.11	0	0	0	0	0	0
12/13/2024 18:54	57106	SPHI_T2	3	3	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
12/13/2024 18:54	57104	SPHI_T2	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
12/13/2024 18:54	67703	WERN_T2	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
12/13/2024 18:54	67702	WERN_T2	10	2	-8	0.39	0.5	0.11	0	0	0	0	0	0	0	0
12/13/2024 18:54	44801	EDAN_T2	2	1	-1	3.8	0.5	-3.3	0	0	0	0	0	0	0	0
12/13/2024 18:54	57101	SPHI_T2	0	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0
12/13/2024 18:54	64101	REFR_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
12/13/2024 18:54	57103	SPHI_T2	0	0	0	0	0	0	-0.74	-0.77	1	1	0	600	600	0
12/13/2024 18:54	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:55	64203	KINZ_T1	0	0	0	0	0	0	-0.37	-0.35	1	1	0	600	600	0
12/13/2024 18:55	64201	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/13/2024 18:55	64204	KINZ_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
12/13/2024 18:55	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:55	64101	REFR_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
12/13/2024 18:55	45001	LIME_2	6	20	14	0.15	0.19	0.04	0	0	0	0	0	0	0	0
12/13/2024 18:55	12401	MILF_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
12/13/2024 18:55	45003	LIME_2	7	16	9	0.56	2.1	1.54	0	0	0	0	0	0	0	0
12/13/2024 18:55	45002	LIME_2	1	1	0	4	4.1	0.1	-0.21	-0.23	0	0	0	0	0	0
12/13/2024 18:56	45001	LIME_2	6	20	14	0.15	0.19	0.04	0	0	0	0	0	0	0	0
12/13/2024 18:56	45002	LIME_2	1	1	0	4	4.1	0.1	-0.21	-0.23	0	0	0	0	0	0
12/13/2024 18:56	49804	UNIV_T1	0	1	1	0	0	0	0.62	0.6	0	0	0	0	0	0
12/13/2024 18:56	65502	MOJO_T2	0	47	47	0	0.11	0.11	-0.97	-0.96	0	0	0	0	0	0
12/13/2024 18:56	44201	POIN_T1	15	34	19	0.1	0.18	0.08	-2.1	-2.16	2	2	0	2100	2100	0
12/13/2024 18:56	45003	LIME_2	7	16	9	0.56	2.1	1.54	0	0	0	0	0	0	0	0
12/13/2024 18:56	60301	TWVA_T2	0	0	0	0	0	0	-1.97	-1.91	2	2	0	1800	1800	0
12/13/2024 18:56	49803	UNIV_T1	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
12/13/2024 18:57	52502	PROG_T2	0	0	0	0	0	0	-0.35	-0.38	1	1	0	900	900	0
12/13/2024 18:57	55105	WERT_T1	0	0	0	0	0	0	-0.35	-0.33	1	1	0	900	900	0
12/13/2024 18:57	61304	EARL_T1	0	0	0	0	0	0	-0.81	-0.81	1	1	0	600	600	0
12/13/2024 18:57	64904	MILL_T1	0	0	0	0	0	0	0.74	0.74	0	0	0	0	0	0
12/13/2024 18:58	59101	WALK_T2	0	0	0	0	0	0	-0.33	-0.38	0	0	0	0	0	0
12/13/2024 18:58	55002	NEWP_T1	4	5	1	0.8	0.54	-0.26	0	0	0	0	0	0	0	0
12/13/2024 18:58	65401	MARI_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
12/13/2024 18:58	55001	NEWP_T1	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
12/13/2024 18:59	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 18:59	59101	WALK_T2	0	0	0	0	0	0	-0.33	-0.38	0	0	0	0	0	0
12/13/2024 19:01	50506	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 19:01	50502	MECH_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
12/13/2024 19:01	50501	MECH_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
12/13/2024 19:04	52502	PROG_T2	0	1	1	0	0	0	-0.35	-0.38	1	1	0	900	900	0
12/13/2024 19:05	46004	BERW_T2	12	19	7	0.63	0.2	-0.43	-0.65	-0.68	0	0	0	0	0	0
12/13/2024 19:18	44301	BEAV_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/13/2024 19:38	46802	WEPB_T1	1	1	0	1.4	1.3	-0.1	-1.04	-1.05	0	0	0	0	0	0
12/13/2024 19:46	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 19:47	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2024 19:49	50106	HARR_T3	2	2	0	1.4	0.2	-1.2	0	0	0	0	0	0	0	0
12/13/2024 19:49	45001	LIME_2	3	29	26	0.13	0.29	0.16	0	0	0	0	0	0	0	0
12/13/2024 19:49	50202	HARR_T3	0	0	0	0	0	0	-1.5	-1.49	0	0	0	0	0	0
12/13/2024 19:49	50201	HARR_T3	2	2	0	3.55	2.7	-0.85	0	0	0	0	0	0	0	0
12/13/2024 19:49	50105	HARR_T3	6	6	0	6.78	6.8	0.02	0	0	0	0	0	0	0	0
12/13/2024 19:49	45002	LIME_2	1	1	0	2.5	4.1	1.6	0	0	0	0	0	0	0	0
12/13/2024 19:49	45003	LIME_2	9	10	1	0.57	0.88	0.31	0.37	0.38	0	0	0	0	0	0
12/13/2024 20:35	53302	GRAT_T2	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
12/13/2024 22:31	67001	STHI_T2	0	1	1	0	0.1	0.1	0.14	0.14	0	0	0	0	0	0
12/14/2024 9:23	47403	PENS_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
12/14/2024 9:23	46506	LOHA_T1	4	4	0	0.4	1	0.6	0	0	0	0	0	0	0	0
12/14/2024 9:23	67201	TEHI_T1	0	0	0	0	0	0	0.84	0.92	0	0	0	0	0	0
12/14/2024 9:23	48902	FOSP_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
12/14/2024 9:23	47402	PENS_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/14/2024 9:23	49803	UNIV_T1	1	1	0	6.7	6.6	-0.1	-0.84	-0.87	0	0	0	0	0	0
12/14/2024 9:23	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
12/14/2024 9:23	20403	ASHF_T2	0	0	0	0	0	0	1.28	1.29	0	0	0	0	0	0
12/14/2024 9:23	20502	HGTN_T1	3	3	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
12/14/2024 9:23	61102	BERK_T5	0	0	0	0	0	0	0.34	0.44	1	1	0	300	300	0
12/14/2024 9:23	45701	LIND_T2	0	0	0	0	0	0	-3.3	-3.34	0	0	0	0	0	0
12/14/2024 9:23	20402	ASHF_T2	63	21	-42	0.35	0.42	0.07	0	0	0	0	0	0	0	0
12/14/2024 9:23	46501	LOHA_T1	34	32	-2	0.76	0.97	0.21	0.01	-0.04	1	1	0	1200	1200	0
12/14/2024 9:23	67203	TEHI_T1	1	0	-1	2.3	0	-2.3	0	0	0	0	0	0	0	0
12/14/2024 9:23	46002	BERW_T2	0	0	0	0	0	0	-1.4	-1.45	1	1	0	900	900	0
12/14/2024 9:23	43201	MVIL_T2	0	1	1	0	0	0	-1.23	-1.23	0	0	0	0	0	0
12/14/2024 9:23	45801	HEGI_T1	0	0	0	0	0	0	-0.96	-0.99	1	1	0	900	900	0
12/14/2024 9:23	45502	DERR_T2	8	9	1	0.81	0.45	-0.36	-0.53	-0.55	0	0	0	0	0	0
12/14/2024 9:23	61103	BERK_T5	0	0	0	0	0	0	0.79	0.67	0	0	0	0	0	0
12/14/2024 9:23	45702	LIND_T2	0	0	0	0	0	0	-3.39	-3.32	0	0	0	0	0	0
12/14/2024 9:23	45802	HEGI_T2	14	29	15	0.38	0.51	0.13	0	0	0	0	0	0	0	0
12/14/2024 9:23	20401	ASHF_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/14/2024 9:23	46204	DANV_T2	4	8	4	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
12/14/2024 9:23	45501	DERR_T2	9	7	-2	1.03	1	-0.03	1.41	1.4	6	6	0	5400	5400	0
12/14/2024 9:23	24902	WHHA_T1	3	3	0	1.63	2.5	0.87	0	0	0	0	0	0	0	0
12/14/2024 9:23	44901	SCOT_T2	0	0	0	0	0	0	-0.32	-0.47	0	0	0	0	0	0
12/14/2024 9:23	49804	UNIV_T1	2	0	-2	0.1	0	-0.1	-0.51	-0.55	0	0	0	0	0	0
12/14/2024 9:23	20501	HGTN_T1	0	0	0	0	0	0	-0.47	-0.57	1	1	0	600	600	0
12/14/2024 9:23	44801	EDAN_T2	1	1	0	0.3	0	-0.3	-0.3	-0.31	0	0	0	0	0	0
12/14/2024 9:23	46602	LACR_T1	0	1	1	0	0.5	0.5	-0.96	-1	0	0	0	0	0	0
12/14/2024 9:23	24901	WHHA_T1	4	19	15	0.48	0.34	-0.14	-1.1	-1.17	0	0	0	0	0	0
12/14/2024 9:23	46004	BERW_T2	19	31	12	0.34	0.49	0.15	0	0	0	0	0	0	0	0
12/14/2024 9:23	63501	HEID_TBK1-2	0	7	7	0	0.13	0.13	-0.77	-0.74	2	2	0	1800	1800	0
12/14/2024 9:23	46206	DANV_T2	0	2	2	0	0	0	-3.02	-3.02	6	6	0	6300	6300	0
12/14/2024 9:23	43202	MVIL_T2	5	4	-1	1.68	1.3	-0.38	0	0	0	0	0	0	0	0
12/14/2024 9:23	47401	PENS_T1	0	5	5	0	0.74	0.74	0.54	0.6	0	0	0	0	0	0
12/14/2024 9:23	44902	SCOT_T2	0	0	0	0	0	0	-0.89	-0.87	0	0	0	0	0	0
12/14/2024 13:08	67605	WARW_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
12/14/2024 13:08	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/14/2024 14:03	13904	SEID_T1	11	10	-1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
12/14/2024 14:03	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/14/2024 14:03	13901	SEID_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/14/2024 15:30	52004	LING_T2	2	2	0	3.25	2.9	-0.35	0.05	0.04	0	0	0	0	0	0
12/14/2024 15:42	52001	LING_T1	0	0	0	0	0	0	-0.99	-0.95	0	0	0	0	0	0
12/14/2024 18:39	52004	LING_T2	4	3	-1	1.03	1.7	0.67	0.09	0.1	0	0	0	0	0	0
12/14/2024 18:39	52002	LING_T2	3	2	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/14/2024 18:43	13901	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/14/2024 18:43	13904	SEID_T1	26	10	-16	1.15	0.3	-0.85	0	0	0	0	0	0	0	0
12/14/2024 18:43	13902	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/14/2024 18:48	67605	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/14/2024 18:48	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/14/2024 18:51	52001	LING_T1	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
12/14/2024 18:51	52003	LING_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 8:31	23401	HONE_T2	0	2	2	0	0.2	0.2	0.05	-0.05	0	0	0	0	0	0
12/15/2024 8:35	10801	CHHI_T1	1	1	0	0.6	0	-0.6	-1.93	-1.93	3	3	0	2100	2100	0
12/15/2024 8:43	46301	ROHR_T1	3	5	2	1.63	1.87	0.24	0	0	0	0	0	0	0	0
12/15/2024 8:43	46302	ROHR_T1	13	24	11	0.65	0.47	-0.18	0.29	0.28	0	0	0	0	0	0
12/15/2024 8:43	44902	SCOT_T2	0	0	0	0	0	0	-0.89	-0.86	0	0	0	0	0	0
12/15/2024 8:45	13704	SCHN_T2	0	0	0	0	0	0	-1.42	-1.4	0	0	0	0	0	0
12/15/2024 8:45	14605	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/15/2024 8:45	14601	SWHI_T1	0	0	0	0	0	0	-1.3	-1.28	0	0	0	0	0	0
12/15/2024 8:45	42601	TUSC_T1	49	64	15	0.93	1.52	0.59	-0.4	-0.4	2	2	0	1800	1800	0
12/15/2024 8:47	14605	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/15/2024 8:47	14601	SWHI_T1	0	0	0	0	0	0	-1.3	-1.28	0	0	0	0	0	0
12/15/2024 8:47	40201	BEGA_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/15/2024 8:47	42601	TUSC_T1	49	64	15	0.93	1.52	0.59	-0.4	-0.4	2	2	0	1800	1800	0
12/15/2024 8:47	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 8:49	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 8:55	40302	TAMA_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 8:55	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 8:56	40302	TAMA_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 8:56	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 8:57	16103	BING_T2	0	0	0	0	0	0	-2.02	-2.05	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/15/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
12/15/2024 9:00	28102	TWLA_T2	7	14	7	0.26	0.29	0.03	0.3	0.3	0	0	0	0	0	0
12/15/2024 9:00	40301	TAMA_T3	1	2	1	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 9:00	40302	TAMA_T3	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
12/15/2024 9:00	67503	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/15/2024 9:01	15601	NSTR_T2	15	39	24	0.45	0.63	0.18	0	0	0	0	0	0	0	0
12/15/2024 9:01	15603	NSTR_T2	114	61	-53	0.61	0.53	-0.08	-0.43	-0.49	0	0	0	0	0	0
12/15/2024 9:06	13503	MCMI_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
12/15/2024 9:11	13503	MCMI_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
12/15/2024 9:11	16103	BING_T2	0	0	0	0	0	0	-2.05	-2.04	2	2	0	1500	1500	0
12/15/2024 9:19	13704	SOHN_T2	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0
12/15/2024 9:23	66203	SISP_T2	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
12/15/2024 9:23	66202	SISP_T2	0	0	0	0	0	0	-0.87	-0.92	0	0	0	0	0	0
12/15/2024 9:28	24105	EHAZ_T1	4	11	7	6.68	6.65	-0.03	0	0	0	0	0	0	0	0
12/15/2024 9:28	24101	EHAZ_T1	68	67	-1	1.91	1.78	-0.13	0	0	0	0	0	0	0	0
12/15/2024 9:28	24102	EHAZ_T1	22	6	-16	1.25	0.47	-0.78	0.12	0.12	0	0	0	0	0	0
12/15/2024 9:32	52004	LING_T2	2	2	0	1.9	2.15	0.25	0.1	0.09	0	0	0	0	0	0
12/15/2024 9:32	45002	LIME_2	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
12/15/2024 9:32	45003	LIME_2	2	2	0	1.4	2	0.6	0	0	0	0	0	0	0	0
12/15/2024 9:32	45001	LIME_2	2	2	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
12/15/2024 9:32	13503	MCMI_T2	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
12/15/2024 9:33	52004	LING_T2	2	2	0	1.9	2.15	0.25	0.1	0.09	0	0	0	0	0	0
12/15/2024 9:37	64101	REFR_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
12/15/2024 9:49	45002	LIME_2	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
12/15/2024 9:49	45003	LIME_2	2	2	0	2.05	1.65	-0.4	0.26	0.25	0	0	0	0	0	0
12/15/2024 9:49	45001	LIME_2	1	3	2	0.7	0.7	0	0	0	0	0	0	0	0	0
12/15/2024 12:08	67702	WERN_T2	1	1	0	1.8	1.3	-0.5	0	0	0	0	0	0	0	0
12/15/2024 12:11	10801	OHH_T1	0	1	1	0	0	0	-1.97	-1.97	3	3	0	2100	2100	0
12/15/2024 12:14	63501	HEID_TBK1-2	3	30	27	0.13	0.27	0.14	-0.53	-0.5	1	1	0	900	900	0
12/15/2024 12:15	44501	HAMI_T2	1	8	7	0.2	0.64	0.44	0	0	0	0	0	0	0	0
12/15/2024 12:15	44503	HAMI_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
12/15/2024 12:15	66201	SISP_T2	1	1	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
12/15/2024 12:15	66202	SISP_T2	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
12/15/2024 12:15	63501	HEID_TBK1-2	27	32	5	0.25	0.28	0.03	0	0	0	0	0	0	0	0
12/15/2024 12:15	44502	HAMI_T2	1	1	0	1.9	2.1	0.2	0	0	0	0	0	0	0	0
12/15/2024 12:16	64201	KINZ_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/15/2024 12:16	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/15/2024 12:16	64203	KINZ_T1	0	0	0	0	0	0	-0.41	-0.46	1	1	0	600	600	0
12/15/2024 12:16	64204	KINZ_T1	1	2	1	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
12/15/2024 12:17	13501	MCMI_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
12/15/2024 12:19	43101	SMIL_T2	1	2	1	5.1	2.8	-2.3	0	0	0	0	0	0	0	0
12/15/2024 12:19	13501	MCMI_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
12/15/2024 12:19	43104	SMIL_T2	0	0	0	0	0	0	-1.91	-1.92	3	3	0	900	900	0
12/15/2024 12:20	43101	SMIL_T2	1	2	1	5.1	2.8	-2.3	0	0	0	0	0	0	0	0
12/15/2024 12:20	43103	SMIL_T2	0	0	0	0	0	0	-4.03	-4.09	0	0	0	0	0	0
12/15/2024 12:29	43101	SMIL_T2	1	2	1	5.1	2.8	-2.3	0	0	0	0	0	0	0	0
12/15/2024 12:29	43104	SMIL_T2	0	0	0	0	0	0	-0.64	-0.64	1	1	0	300	300	0
12/15/2024 12:29	43103	SMIL_T2	0	0	0	0	0	0	-2.04	-2.06	0	0	0	0	0	0
12/15/2024 12:30	43103	SMIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 12:30	43101	SMIL_T2	1	2	1	2.8	4.2	1.4	0	0	0	0	0	0	0	0
12/15/2024 12:32	65503	MOJO_T2	0	0	0	0	0	0	-1.27	-1.28	1	1	0	900	900	0
12/15/2024 12:33	43202	MVIL_T2	1	1	0	1.5	2.1	0.6	-0.58	-0.6	0	0	0	0	0	0
12/15/2024 12:38	21203	ECAR_T1	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
12/15/2024 12:42	44504	HAMI_T2	0	0	0	0	0	0	-1.17	-1.18	0	0	0	0	0	0
12/15/2024 12:42	44502	HAMI_T2	1	1	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0
12/15/2024 12:42	44501	HAMI_T2	8	7	-1	1.1	0.43	-0.67	0	0	0	0	0	0	0	0
12/15/2024 12:50	57602	RUTH_T2	12	17	5	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
12/15/2024 12:52	57602	RUTH_T2	12	17	5	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
12/15/2024 12:53	57602	RUTH_T2	12	17	5	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
12/15/2024 12:54	57602	RUTH_T2	12	17	5	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
12/15/2024 12:55	45902	AUBU_T1	5	7	2	1.7	0.3	-1.4	0	0	0	0	0	0	0	0
12/15/2024 12:55	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
12/15/2024 12:59	44501	HAMI_T2	7	3	-4	0.64	0.2	-0.44	0	0	0	0	0	0	0	0
12/15/2024 12:59	44502	HAMI_T2	1	1	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0
12/15/2024 12:59	44505	HAMI_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
12/15/2024 13:01	57602	RUTH_T2	17	16	-1	0.52	0.37	-0.15	0	0	0	0	0	0	0	0
12/15/2024 13:03	44202	POIN_T2	0	0	0	0	0	0	-0.88	-0.86	1	1	0	1200	1200	0
12/15/2024 13:08	44201	POIN_T1	22	44	22	0.13	0.21	0.08	-1.97	-1.99	1	1	0	1200	1200	0
12/15/2024 13:19	63801	HEMP_T1	0	0	0	0	0	0	-0.35	-0.03	0	0	0	0	0	0
12/15/2024 13:19	63804	HEMP_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
12/15/2024 13:21	67702	WERN_T2	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
12/15/2024 13:21	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 13:22	43101	SMIL_T2	4	1	-3	0.33	1.3	0.97	0	0	0	0	0	0	0	0
12/15/2024 13:22	43103	SMIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 13:23	67702	WERN_T2	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
12/15/2024 13:23	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 13:24	67702	WERN_T2	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
12/15/2024 13:24	44301	BEAV_T2	0	0	0	0	0	0	-1.57	-1.53	1	1	0	600	600	0
12/15/2024 13:24	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 13:25	43101	SMIL_T2	4	1	-3	0.33	1.3	0.97	0	0	0	0	0	0	0	0
12/15/2024 13:25	43103	SMIL_T2	0	0	0	0	0	0	-2.14	-2.1	0	0	0	0	0	0
12/15/2024 13:33	55405	SHER_T1	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/15/2024 13:41	11104	EGYP_T1	2	9	7	0.5	0.65	0.15	0	0	0	0	0	0	0	0
12/15/2024 13:41	11102	EGYP_T1	7	6	-1	0.61	0.1	-0.51	0	0	0	0	0	0	0	0
12/15/2024 13:42	60102	COCA_T1	0	0	0	0	0	0	-0.18	-0.14	2	2	0	1200	1200	0
12/15/2024 13:43	60104	COCA_T2	4	4	0	0.45	0.53	0.08	0	0	0	0	0	0	0	0
12/15/2024 13:43	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 13:53	13901	SEID_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	1200	1200	0
12/15/2024 13:53	13904	SEID_T1	15	39	24	1.34	0.92	-0.42	0	0	0	0	0	0	0	0
12/15/2024 13:53	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	900	900	0
12/15/2024 13:56	42701	AUGU_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/15/2024 13:57	42701	AUGU_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/15/2024 14:00	44501	HAMI_T2	3	4	1	0.73	0.37	-0.36	0	0	0	0	0	0	0	0
12/15/2024 14:00	44502	HAMI_T2	1	1	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
12/15/2024 14:00	44505	HAMI_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
12/15/2024 14:21	67702	WERN_T2	3	4	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
12/15/2024 14:21	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 14:22	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 14:22	67702	WERN_T2	3	4	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
12/15/2024 14:23	14103	TRUM_T2	8	7	-1	1	0.27	-0.73	0	0	0	0	0	0	0	0
12/15/2024 14:23	14102	TRUM_T2	0	0	0	0	0	0	-1.47	0	3	0	-3	2400	0	-2400
12/15/2024 14:24	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 14:24	67702	WERN_T2	3	4	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
12/15/2024 14:25	67702	WERN_T2	3	4	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
12/15/2024 14:25	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 14:31	63501	HEID_TBK1-2	32	29	-3	0.37	0.26	-0.11	-0.55	0	1	0	-1	900	0	-900
12/15/2024 15:24	64101	REFR_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
12/15/2024 15:26	52501	PROG_T1	171	140	-31	0.24	0.19	-0.05	0	-0.75	1	1	0	300	300	0
12/15/2024 15:26	20603	GRWO_T2	21	21	0	3.64	3.06	-0.58	-0.44	-0.44	1	1	0	900	900	0
12/15/2024 15:26	20602	GRWO_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 15:26	20601	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 15:26	52504	PROG_T1	8	0	-8	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/15/2024 15:26	52001	LING_T1	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
12/15/2024 15:31	64101	REFR_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
12/15/2024 15:36	63501	HEID_TBK1-2	30	13	-17	0.29	0.14	-0.15	-0.52	-0.52	1	1	0	900	900	0
12/15/2024 15:39	63501	HEID_TBK1-2	30	13	-17	0.29	0.14	-0.15	-0.52	-0.52	1	1	0	900	900	0
12/15/2024 15:40	63501	HEID_TBK1-2	30	13	-17	0.29	0.14	-0.15	-0.52	-0.52	1	1	0	900	900	0
12/15/2024 15:41	54506	ENOL_T2	0	0	0	0	0	0	0.36	0.34	0	1	1	0	600	600
12/15/2024 17:45	44301	BEAV_T2	3	3	0	0.9	2.6	1.7	-1.44	-1.4	1	1	0	600	600	0
12/15/2024 18:09	43202	MVIL_T2	2	4	2	0.65	0.43	-0.22	-0.59	-0.62	0	0	0	0	0	0
12/15/2024 18:10	54506	ENOL_T2	0	0	0	0	0	0	0.47	0.45	1	0	-1	600	0	-600
12/15/2024 18:10	54503	ENOL_T2	1	1	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
12/15/2024 18:11	43103	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 18:11	43104	SMIL_T2	0	0	0	0	0	0	-0.62	-0.63	1	1	0	300	300	0
12/15/2024 18:11	43101	SMIL_T2	3	2	-1	1.27	1.4	0.13	0	0	0	0	0	0	0	0
12/15/2024 18:17	45003	LIME_2	32	33	1	0.44	0.6	0.16	0	0	0	0	0	0	0	0
12/15/2024 18:17	45002	LIME_2	1	1	0	3	4.2	1.2	-0.24	-0.28	0	0	0	0	0	0
12/15/2024 18:17	45001	LIME_2	43	19	-24	0.45	0.44	-0.01	0	0	0	0	0	0	0	0
12/15/2024 18:18	13503	MCMI_T2	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
12/15/2024 18:18	24105	EHAZ_T1	24	39	15	1.62	1.45	-0.17	0	0	0	0	0	0	0	0
12/15/2024 18:18	24102	EHAZ_T1	28	27	-1	0.69	0.43	-0.26	-1.07	-1.09	0	0	0	0	0	0
12/15/2024 18:18	13501	MCMI_T1	1	2	1	0.2	0	-0.2	0.42	0.43	0	0	0	0	0	0
12/15/2024 18:18	24101	EHAZ_T1	83	99	16	1.36	1.36	0	0	0	0	0	0	0	0	0
12/15/2024 18:22	45902	AUBU_T1	4	0	-4	0.25	0	-0.25	0	0	0	0	0	0	0	0
12/15/2024 18:22	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
12/15/2024 18:23	43103	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 18:23	43101	SMIL_T2	2	2	0	0.9	2	1.1	0	0	0	0	0	0	0	0
12/15/2024 18:23	43104	SMIL_T2	0	0	0	0	0	0	-1.89	-1.92	3	3	0	900	900	0
12/15/2024 18:24	57602	RUTH_T2	38	50	12	0.67	0.7	0.03	0	0	0	0	0	0	0	0
12/15/2024 18:25	14102	TRUM_T2	1	1	0	7.2	7.1	-0.1	0.42	0.37	1	1	0	900	900	0
12/15/2024 18:26	45002	LIME_2	1	1	0	3	4.2	1.2	0	0	0	0	0	0	0	0
12/15/2024 18:26	63501	HEID_TBK1-2	1	22	21	0.1	0.14	0.04	-0.45	-0.45	1	1	0	900	900	0
12/15/2024 18:26	52504	PROG_T1	4	3	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
12/15/2024 18:26	45001	LIME_2	43	19	-24	0.45	0.44	-0.01	0	0	0	0	0	0	0	0
12/15/2024 18:26	52501	PROG_T1	177	163	-14	0.22	0.22	0	-0.75	-0.75	1	1	0	300	300	0
12/15/2024 18:26	13503	MCMI_T2	0	0	0	0	0	0	-0.49	-0.55	0	0	0	0	0	0
12/15/2024 18:26	45003	LIME_2	32	33	1	0.44	0.6	0.16	0.45	0.45	0	0	0	0	0	0
12/15/2024 18:27	57602	RUTH_T2	38	50	12	0.67	0.7	0.03	0	0	0	0	0	0	0	0
12/15/2024 18:27	13901	SEID_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
12/15/2024 18:27	40302	TAMA_T3	2	0	-2	0.55	0	-0.55	0.17	0.2	0	0	0	0	0	0
12/15/2024 18:27	67703	WERN_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
12/15/2024 18:27	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 18:27	67702	WERN_T2	71	55	-16	0.41	0.35	-0.06	0	0	0	0	0	0	0	0
12/15/2024 18:27	64101	REFR_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
12/15/2024 18:27	13904	SEID_T1	33	33	0	1.37	1.72	0.35	0	0	0	0	0	0	0	0
12/15/2024 18:28	57602	RUTH_T2	38	50	12	0.67	0.7	0.03	0	0	0	0	0	0	0	0
12/15/2024 18:28	67703	WERN_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
12/15/2024 18:28	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 18:28	52001	LING_T1	0	0	0	0	0	0	-0.88	-0.91	0	0	0	0	0	0
12/15/2024 18:28	40302	TAMA_T3	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
12/15/2024 18:28	67702	WERN_T2	71	55	-16	0.41	0.35	-0.06	0	0	0	0	0	0	0	0
12/15/2024 18:29	43103	SMIL_T2	0	1	1	0	0	0	-6.31	-6.46	0	0	0	0	0	0
12/15/2024 18:29	21203	ECAR_T1	0	3	3	0	0.3	0.3	-0.63	-0.65	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/15/2024 18:29	10801	CHHI_T1	0	0	0	0	0	0	-2.01	-2.01	3	3	0	2100	2100	0
12/15/2024 18:29	43101	SMIL_T2	2	2	0	0.9	2	1.1	0	0	0	0	0	0	0	0
12/15/2024 18:30	67702	WERN_T2	51	35	-16	0.38	0.41	0.03	0	0	0	0	0	0	0	0
12/15/2024 18:30	44501	HAMI_T2	13	8	-5	0.39	0.23	-0.16	0	0	0	0	0	0	0	0
12/15/2024 18:30	52501	PROG_T1	151	159	8	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
12/15/2024 18:30	44505	HAMI_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
12/15/2024 18:30	67703	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/15/2024 18:30	52504	PROG_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
12/15/2024 18:30	63501	HEID_TBK1-2	1	33	32	0.2	0.2	0	0	0	0	0	0	0	0	0
12/15/2024 18:30	44502	HAMI_T2	1	2	1	2	1.8	-0.2	0	0	0	0	0	0	0	0
12/15/2024 18:31	43101	SMIL_T2	1	2	1	2	2.6	0.6	0	0	0	0	0	0	0	0
12/15/2024 18:31	43103	SMIL_T2	1	0	-1	0.2	0	-0.2	-2.1	-2.15	0	0	0	0	0	0
12/15/2024 18:31	67703	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/15/2024 18:31	60102	COCA_T1	0	0	0	0	0	0	-0.32	-0.24	2	2	0	1200	1200	0
12/15/2024 18:31	67702	WERN_T2	51	35	-16	0.38	0.41	0.03	0	0	0	0	0	0	0	0
12/15/2024 18:32	20602	GRWO_T2	4	4	0	0.13	0	-0.13	0	0	0	0	0	0	0	0
12/15/2024 18:32	20601	GRWO_T2	4	3	-1	1.65	2.25	0.6	0	0	0	0	0	0	0	0
12/15/2024 18:32	57602	RUTH_T2	43	70	27	0.95	0.86	-0.09	0	0	0	0	0	0	0	0
12/15/2024 18:32	20603	GRWO_T2	2	0	-2	0.15	0	-0.15	-0.43	-0.41	1	1	0	900	900	0
12/15/2024 18:32	57603	RUTH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 18:33	55405	SHER_T1	5	5	0	0.22	0.26	0.04	0	0	0	0	0	0	0	0
12/15/2024 18:33	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 18:34	52002	LING_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/15/2024 18:34	67702	WERN_T2	51	35	-16	0.38	0.41	0.03	0	0	0	0	0	0	0	0
12/15/2024 18:34	67703	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/15/2024 18:34	15603	NSTR_T2	3	4	1	1.33	0	-1.33	-0.92	-0.94	0	0	0	0	0	0
12/15/2024 18:34	52004	LING_T2	2	2	0	2.45	2.5	0.05	-0.42	-0.45	0	0	0	0	0	0
12/15/2024 18:34	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 18:34	15601	NSTR_T2	17	21	4	0.31	0.51	0.2	0	0	0	0	0	0	0	0
12/15/2024 18:34	13503	MCMI_T2	0	0	0	0	0	0	-0.49	-0.55	0	0	0	0	0	0
12/15/2024 18:35	63501	HEID_TBK1-2	1	33	32	0.2	0.2	0	-0.45	-0.45	1	1	0	900	900	0
12/15/2024 18:35	11104	EGYP_T1	2	2	0	1.7	0	-1.7	0	0	0	0	0	0	0	0
12/15/2024 18:35	57602	RUTH_T2	43	70	27	0.95	0.86	-0.09	0	0	0	0	0	0	0	0
12/15/2024 18:35	11102	EGYP_T1	10	10	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/15/2024 18:35	57603	RUTH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 18:36	67702	WERN_T2	51	35	-16	0.38	0.41	0.03	0	0	0	0	0	0	0	0
12/15/2024 18:36	63501	HEID_TBK1-2	1	33	32	0.2	0.2	0	-0.45	-0.4	1	1	0	900	900	0
12/15/2024 18:36	67703	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/15/2024 18:39	44202	POIN_T2	0	0	0	0	0	0	-0.87	-0.88	1	1	0	1200	1200	0
12/15/2024 18:39	13704	SCHN_T2	2	2	0	4.1	2.15	-1.95	-0.81	-0.8	0	0	0	0	0	0
12/15/2024 18:40	64101	REFR_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
12/15/2024 18:40	52004	LING_T2	2	2	0	2.45	2.5	0.05	-0.45	-0.46	0	0	0	0	0	0
12/15/2024 18:40	57603	RUTH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 18:40	52002	LING_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/15/2024 18:40	57602	RUTH_T2	43	70	27	0.95	0.86	-0.09	0	0	0	0	0	0	0	0
12/15/2024 18:41	63501	HEID_TBK1-2	1	33	32	0.2	0.2	0	-0.45	-0.4	1	1	0	900	900	0
12/15/2024 18:43	64203	KINZ_T1	0	0	0	0	0	0	-0.45	-0.48	1	1	0	600	600	0
12/15/2024 18:43	64204	KINZ_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
12/15/2024 18:44	67703	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/15/2024 18:44	44201	POIN_T1	0	0	0	0	0	0	-2.03	-1.97	1	1	0	1200	1200	0
12/15/2024 18:44	67702	WERN_T2	51	35	-16	0.38	0.41	0.03	0	0	0	0	0	0	0	0
12/15/2024 18:47	16103	BING_T2	0	0	0	0	0	0	-1.55	-1.53	1	1	0	900	900	0
12/15/2024 18:48	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 19:34	63801	HEMP_T1	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
12/15/2024 19:34	63804	HEMP_T1	1	9	8	6.6	6.7	0.1	0	0	0	0	0	0	0	0
12/15/2024 20:01	67702	WERN_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
12/15/2024 20:01	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2024 21:13	66202	SISP_T2	0	0	0	0	0	0	-0.97	-0.92	0	0	0	0	0	0
12/15/2024 22:59	43402	BENT_T1	0	0	0	0	0	0	-1.56	-1.55	2	2	0	1500	1500	0
12/16/2024 4:11	65503	MOJO_T2	0	0	0	0	0	0	-0.52	-0.48	0	0	0	0	0	0
12/16/2024 9:00	43103	SMIL_T2	0	1	1	0	0.1	0.1	-0.83	-0.85	0	0	0	0	0	0
12/16/2024 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
12/16/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
12/16/2024 9:00	43102	SMIL_T2	6	6	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
12/16/2024 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
12/16/2024 9:00	43101	SMIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/16/2024 9:14	61506	EPET_T2	0	0	0	0	0	0	-0.72	-0.64	1	1	0	900	900	0
12/16/2024 9:16	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/16/2024 9:16	64802	MONE_T2	0	1	1	0	0.1	0.1	0.2	0.2	0	0	0	0	0	0
12/16/2024 9:37	14601	SWHI_T1	0	0	0	0	0	0	-0.79	-0.73	0	0	0	0	0	0
12/16/2024 9:39	60301	TWVA_T2	0	0	0	0	0	0	-2.97	-3.03	2	2	0	1800	1800	0
12/16/2024 9:43	10805	CHHI_T2	1	7	6	8	8.1	0.1	-0.53	-0.47	1	1	0	600	600	0
12/16/2024 10:04	65503	MOJO_T2	0	0	0	0	0	0	-0.91	-0.89	1	1	0	900	900	0
12/16/2024 10:06	60301	TWVA_T2	0	0	0	0	0	0	-6.09	-6.08	4	4	0	3600	3600	0
12/16/2024 10:07	17002	RIRO_T2	11	35	24	0.11	0.17	0.06	0.63	0.69	0	0	0	0	0	0
12/16/2024 10:09	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 10:10	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 10:16	64802	MONE_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
12/16/2024 10:38	67605	WARW_T1	5	14	9	0.34	0.41	0.07	-1.07	-1.09	0	0	0	0	0	0
12/16/2024 10:43	57702	PAXT_T1	1	0	-1	0.1	0	-0.1	0.18	0.17	0	0	0	0	0	0
12/16/2024 10:43	57701	PAXT_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/16/2024 10:43	24101	EHAZ_T1	33	27	-6	1.55	0.98	-0.57	0	0	0	0	0	0	0	0
12/16/2024 10:43	24105	EHAZ_T1	4	4	0	7.1	6.18	-0.92	-2	-2.02	1	1	0	1200	1200	0
12/16/2024 10:43	63501	HEID_TBK1-2	0	0	0	0	0	0	0.27	0.07	1	1	0	900	900	0
12/16/2024 10:43	24102	EHAZ_T1	7	3	-4	0.67	0.25	-0.42	0	0	0	0	0	0	0	0
12/16/2024 10:45	45802	HEGI_T2	2	8	6	0.45	0.17	-0.28	0	0	0	0	0	0	0	0
12/16/2024 10:45	63803	HEMP_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
12/16/2024 10:45	63601	LETO_T1	6	6	0	0.58	0.65	0.07	0.3	0.39	1	1	0	900	900	0
12/16/2024 10:45	63602	LETO_T1	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
12/16/2024 10:45	63804	HEMP_T1	1	2	1	6.3	6.4	0.1	0	0	0	0	0	0	0	0
12/16/2024 10:47	63601	LETO_T1	6	6	0	0.58	0.65	0.07	0.3	0.39	1	1	0	900	900	0
12/16/2024 10:47	63602	LETO_T1	3	1	-2	0.1	0.1	0	-0.82	-0.9	0	0	0	0	0	0
12/16/2024 10:50	64101	REFR_T1	0	3	3	0	0	0	-0.07	-0.04	0	0	0	0	0	0
12/16/2024 10:59	63804	HEMP_T1	1	2	1	6.3	6.4	0.1	0	0	0	0	0	0	0	0
12/16/2024 10:59	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.23	0	0	0	0	0	0
12/16/2024 11:03	65503	MOJO_T2	0	1	1	0	0	0	-0.94	-0.97	1	1	0	900	900	0
12/16/2024 11:05	57205	ROSS_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
12/16/2024 11:08	61103	BERK_T5	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
12/16/2024 11:08	67702	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 11:09	67702	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 11:10	67702	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 11:11	61103	BERK_T5	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
12/16/2024 11:11	67702	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 11:12	67702	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 11:13	67702	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 11:13	61103	BERK_T5	0	0	0	0	0	0	-0.01	0.05	0	0	0	0	0	0
12/16/2024 11:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 11:30	61103	BERK_T5	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
12/16/2024 11:36	21702	SUBU_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 11:36	67402	WAKE_T2	0	0	0	0	0	0	0.41	0.39	1	1	0	600	600	0
12/16/2024 11:36	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 11:36	67401	WAKE_T2	0	0	0	0	0	0	-1.09	-1.06	0	0	0	0	0	0
12/16/2024 11:36	21705	SUBU_T1	1	2	1	5.5	5.5	0	0	0	0	0	0	0	0	0
12/16/2024 11:36	21701	SUBU_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
12/16/2024 11:38	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 11:38	43801	SWIL_T1	1	2	1	5	2.5	-2.5	0	0	0	0	0	0	0	0
12/16/2024 11:39	42503	ALTA_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
12/16/2024 11:40	42501	ALTA_T2	0	0	0	0	0	0	0.01	0	1	1	0	600	600	0
12/16/2024 11:42	61103	BERK_T5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 11:45	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 11:51	14603	SWHI_T1	0	0	0	0	0	0	-1.6	-1.59	2	2	0	1200	1200	0
12/16/2024 11:51	44901	SCOT_T2	0	0	0	0	0	0	-0.01	-0.07	0	0	0	0	0	0
12/16/2024 11:54	67402	WAKE_T2	0	0	0	0	0	0	0.39	0.39	1	1	0	600	600	0
12/16/2024 11:55	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 11:55	14603	SWHI_T1	0	0	0	0	0	0	-1.59	-1.6	2	2	0	1200	1200	0
12/16/2024 11:58	45802	HEGI_T2	14	10	-4	0.37	0.2	-0.17	0.77	0.76	1	1	0	900	900	0
12/16/2024 12:01	45802	HEGI_T2	10	11	1	0.31	0.36	0.05	0.77	0.76	1	1	0	900	900	0
12/16/2024 12:05	57201	ROSS_T1	0	0	0	0	0	0	-0.56	-0.49	0	0	0	0	0	0
12/16/2024 12:07	57201	ROSS_T1	0	0	0	0	0	0	-0.49	-0.59	0	0	0	0	0	0
12/16/2024 12:08	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
12/16/2024 12:08	64302	LINC_T2	0	0	0	0	0	0	1	1.01	0	0	0	0	0	0
12/16/2024 12:08	57201	ROSS_T1	0	0	0	0	0	0	-0.49	-0.59	0	0	0	0	0	0
12/16/2024 12:08	45902	AUBU_T1	4	4	0	0.53	0	-0.53	0	0	0	0	0	0	0	0
12/16/2024 12:11	54504	ENOL_T2	0	0	0	0	0	0	-0.95	-1	1	1	0	600	600	0
12/16/2024 12:11	54505	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/16/2024 12:11	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/16/2024 12:12	45302	WBER_T2	0	0	0	0	0	0	0.75	0.72	0	0	0	0	0	0
12/16/2024 12:15	20601	GRWO_T2	5	3	-2	1.04	0.3	-0.74	0	0	0	0	0	0	0	0
12/16/2024 12:15	20603	GRWO_T2	0	2	2	0	0.1	0.1	-0.52	-0.56	1	1	0	900	900	0
12/16/2024 12:18	64702	LITI_T2	0	0	0	0	0	0	-0.79	-0.75	0	0	0	0	0	0
12/16/2024 12:19	64801	MONE_T2	1	5	4	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
12/16/2024 12:19	58202	NEWV_T1	0	0	0	0	0	0	0.02	-0.04	0	0	0	0	0	0
12/16/2024 12:19	64802	MONE_T2	7	10	3	0.13	0.13	0	0	0	0	0	0	0	0	0
12/16/2024 12:20	58401	MORO_T1	0	0	0	0	0	0	-0.95	-1	1	1	0	600	600	0
12/16/2024 12:24	46001	BERW_T1	0	0	0	0	0	0	0.9	0.91	0	0	0	0	0	0
12/16/2024 12:29	14204	EALL_T2	0	0	0	0	0	0	0.21	0.15	0	0	0	0	0	0
12/16/2024 12:31	64802	MONE_T2	8	9	1	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
12/16/2024 12:31	64801	MONE_T2	5	4	-1	0.2	0.15	-0.05	0.32	0.32	0	0	0	0	0	0
12/16/2024 12:34	67106	SPRI_T2	0	0	0	0	0	0	-1.92	-1.91	2	2	0	1500	1500	0
12/16/2024 12:36	67106	SPRI_T2	0	0	0	0	0	0	-1.91	-1.92	2	2	0	1500	1500	0
12/16/2024 12:37	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/16/2024 12:37	54601	SUMM_T2	4	3	-1	0.33	0.4	0.07	0	0	0	0	0	0	0	0
12/16/2024 12:38	67106	SPRI_T2	0	0	0	0	0	0	-1.91	-1.92	2	2	0	1500	1500	0
12/16/2024 12:39	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 12:40	54601	SUMM_T2	4	3	-1	0.33	0.4	0.07	0	0	0	0	0	0	0	0
12/16/2024 12:40	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/16/2024 12:40	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 13:00	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 13:02	42902	MIDD_T2	0	0	0	0	0	0	-0.91	-0.92	1	1	0	600	600	0
12/16/2024 13:04	41903	REED_T1	0	0	0	0	0	0	0.09	0.08	1	1	0	1200	1200	0
12/16/2024 13:04	41901	REED_T1	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
12/16/2024 13:05	59402	RFLD_T2	0	1	1	0	0	0	-0.9	-0.87	1	1	0	450	450	0
12/16/2024 13:06	57201	ROSS_T1	4	1	-3	0.1	0.1	0	-0.61	-0.58	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/16/2024 13:08	54601	SUMM_T2	3	5	2	0.4	0.3	-0.1	-1.75	-1.78	2	2	0	2100	2100	0
12/16/2024 13:09	42501	ALTA_T2	0	0	0	0	0	0	0.03	0.08	2	2	0	1200	1200	0
12/16/2024 13:09	61103	BERK_T5	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
12/16/2024 13:09	42504	ALTA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/16/2024 13:10	61103	BERK_T5	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
12/16/2024 13:11	42504	ALTA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/16/2024 13:11	42501	ALTA_T2	0	0	0	0	0	0	0.02	0.04	1	1	0	600	600	0
12/16/2024 13:12	61103	BERK_T5	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
12/16/2024 13:13	61103	BERK_T5	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
12/16/2024 13:18	24204	PROV_T3	2	2	0	2.9	2.95	0.05	0	0	0	0	0	0	0	0
12/16/2024 13:18	24201	PROV_T3	1	1	0	6.6	6.4	-0.2	-1.43	-1.42	1	1	0	1200	1200	0
12/16/2024 13:20	64904	MILL_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
12/16/2024 13:21	24202	PROV_T4	0	0	0	0	0	0	-0.76	-0.75	1	1	0	1200	1200	0
12/16/2024 13:32	46101	MACI_T2	0	0	0	0	0	0	0.7	0.24	1	1	0	1200	1200	0
12/16/2024 13:35	57201	ROSS_T1	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
12/16/2024 13:35	57203	ROSS_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
12/16/2024 13:41	57701	PAXT_T1	6	186	180	0.12	0.18	0.06	0	0	0	0	0	0	0	0
12/16/2024 13:41	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
12/16/2024 13:41	57702	PAXT_T1	5	15	10	0.16	0.25	0.09	0.1	0.13	0	0	0	0	0	0
12/16/2024 13:41	54503	ENOL_T2	0	0	0	0	0	0	-0.41	-0.41	1	1	0	600	600	0
12/16/2024 13:41	54502	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/16/2024 13:42	57701	PAXT_T1	6	186	180	0.12	0.18	0.06	-0.04	-0.04	0	0	0	0	0	0
12/16/2024 13:42	57702	PAXT_T1	5	15	10	0.16	0.25	0.09	0.1	0.13	0	0	0	0	0	0
12/16/2024 13:43	54502	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/16/2024 13:43	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	-1.24	-1.2	1	1	0	600	600	0
12/16/2024 13:44	57701	PAXT_T1	6	186	180	0.12	0.18	0.06	0	0	0	0	0	0	0	0
12/16/2024 13:44	57702	PAXT_T1	5	15	10	0.16	0.25	0.09	0.1	0.13	0	0	0	0	0	0
12/16/2024 13:45	57701	PAXT_T1	186	94	-92	0.18	0.14	-0.04	0	0	0	0	0	0	0	0
12/16/2024 13:45	57702	PAXT_T1	15	13	-2	0.25	0.19	-0.06	0.1	0.13	0	0	0	0	0	0
12/16/2024 13:46	57704	PAXT_T2	4	3	-1	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
12/16/2024 13:46	46101	MACI_T2	0	0	0	0	0	0	0.24	0.14	1	1	0	1200	1200	0
12/16/2024 13:46	57703	PAXT_T2	162	149	-13	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
12/16/2024 13:52	46101	MACI_T2	0	0	0	0	0	0	0.14	-0.03	1	1	0	1200	1200	0
12/16/2024 13:56	46206	DANV_T2	0	0	0	0	0	0	1.91	1.93	2	2	0	2100	2100	0
12/16/2024 13:59	46206	DANV_T2	0	0	0	0	0	0	1.91	1.93	2	2	0	2100	2100	0
12/16/2024 14:09	57203	ROSS_T1	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
12/16/2024 14:09	57201	ROSS_T1	6	6	0	0.12	0.17	0.05	0	0	0	0	0	0	0	0
12/16/2024 14:14	64702	LITI_T2	0	0	0	0	0	0	-0.71	-0.69	0	0	0	0	0	0
12/16/2024 14:30	45002	LIME_2	1	1	0	5.6	5.4	-0.2	0.57	0.63	0	0	0	0	0	0
12/16/2024 14:30	45003	LIME_2	1	1	0	3.4	3.7	0.3	0	0	0	0	0	0	0	0
12/16/2024 14:30	45001	LIME_2	31	9	-22	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
12/16/2024 14:35	57203	ROSS_T1	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
12/16/2024 14:44	62604	ENGL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/16/2024 14:44	62605	ENGL_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
12/16/2024 14:44	62606	ENGL_T1	14	84	70	0.1	0.22	0.12	-1.25	-1.35	1	1	0	900	900	0
12/16/2024 14:45	53903	HALI_T2	2	2	0	1.4	1.5	0.1	-0.18	-0.18	0	0	0	0	0	0
12/16/2024 14:45	53902	HALI_T2	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
12/16/2024 14:45	53901	HALI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/16/2024 14:45	21901	HUMB_T1	0	0	0	0	0	0	-2.02	-2.01	0	0	0	0	0	0
12/16/2024 14:46	53902	HALI_T2	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
12/16/2024 14:46	53901	HALI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/16/2024 14:46	53903	HALI_T2	2	2	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
12/16/2024 14:47	47802	MOCA_T2	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
12/16/2024 14:48	53901	HALI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/16/2024 14:48	53902	HALI_T2	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
12/16/2024 14:48	53903	HALI_T2	2	2	0	1.4	1.5	0.1	-0.18	-0.18	0	0	0	0	0	0
12/16/2024 14:54	42504	ALTA_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
12/16/2024 14:54	44905	SCOT_T1	2	3	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/16/2024 14:54	42501	ALTA_T2	0	1	1	0	0	0	-0.02	-0.03	2	2	0	1200	1200	0
12/16/2024 15:12	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 16:00	66504	SMAN_T2	7	16	9	0.26	0	-0.26	0	0	0	0	0	0	0	0
12/16/2024 16:00	66505	SMAN_T2	3	3	0	0.83	0.7	-0.13	0	0	0	0	0	0	0	0
12/16/2024 18:08	63602	LETO_T1	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
12/16/2024 18:12	64801	MONE_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
12/16/2024 18:17	10805	CHHI_T2	6	1	-5	1.53	7.8	6.27	-0.46	-0.8	0	1	1	0	600	600
12/16/2024 18:18	53903	HALI_T2	4	18	14	0.68	0.33	-0.35	-0.17	-0.18	0	0	0	0	0	0
12/16/2024 18:18	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
12/16/2024 18:18	53901	HALI_T2	2	6	4	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
12/16/2024 18:20	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	-1.08	-1.15	0	0	0	0	0	0
12/16/2024 18:20	24206	PROV_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:20	24202	PROV_T4	0	0	0	0	0	0	-0.68	-0.79	1	1	0	1200	1200	0
12/16/2024 18:20	63802	HEMP_T1	0	0	0	0	0	0	0.12	0.16	0	0	0	0	0	0
12/16/2024 18:20	63804	HEMP_T1	2	1	-1	3.2	6.4	3.2	0	0	0	0	0	0	0	0
12/16/2024 18:21	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:21	63501	HEID_TBK1-2	36	26	-10	0.33	0.16	-0.17	-0.48	-0.46	1	1	0	900	900	0
12/16/2024 18:21	61506	EPET_T2	0	0	0	0	0	0	-1.04	-0.95	1	1	0	900	900	0
12/16/2024 18:21	63601	LETO_T1	0	0	0	0	0	0	1.1	1.17	1	1	0	900	900	0
12/16/2024 18:22	42903	MIDD_T2	2	2	0	1.1	1.25	0.15	0	0	0	0	0	0	0	0
12/16/2024 18:22	42902	MIDD_T2	0	0	0	0	0	0	-0.53	-0.57	0	0	0	0	0	0
12/16/2024 18:22	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:22	42503	ALTA_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
12/16/2024 18:23	62606	ENGL_T1	0	0	0	0	0	0	-1.38	-1.32	1	1	0	900	900	0
12/16/2024 18:23	64302	LINC_T2	0	0	0	0	0	0	1.07	1.06	0	0	0	0	0	0
12/16/2024 18:23	63601	LETO_T1	0	0	0	0	0	0	1.1	1.17	1	1	0	900	900	0
12/16/2024 18:23	64802	MONE_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
12/16/2024 18:23	57205	ROSS_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
12/16/2024 18:24	57203	ROSS_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
12/16/2024 18:24	67703	WERN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/16/2024 18:24	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:24	63602	LETO_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
12/16/2024 18:25	57704	PAXT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:25	57702	PAXT_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
12/16/2024 18:25	17002	RIRO_T2	106	3	-103	0.19	0.1	-0.09	0.34	0.35	0	0	0	0	0	0
12/16/2024 18:26	21705	SUBU_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
12/16/2024 18:26	21702	SUBU_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:26	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
12/16/2024 18:26	61102	BERK_T5	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/16/2024 18:26	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:26	45902	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/16/2024 18:26	21701	SUBU_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
12/16/2024 18:26	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:26	67703	WERN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/16/2024 18:26	61103	BERK_T5	5	2	-3	0.14	0.15	0.01	-0.01	-0.01	0	0	0	0	0	0
12/16/2024 18:27	61102	BERK_T5	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/16/2024 18:27	45802	HEGI_T2	28	43	15	0.61	0.98	0.37	-0.07	-0.16	1	1	0	900	900	0
12/16/2024 18:27	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:27	64101	REFR_T1	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
12/16/2024 18:27	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:27	57201	ROSS_T1	0	0	0	0	0	0	-0.61	-0.68	0	0	0	0	0	0
12/16/2024 18:27	67106	SPRI_T2	0	0	0	0	0	0	-1.26	-1.26	1	1	0	900	900	0
12/16/2024 18:27	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:27	52204	DEVO_T2	4	3	-1	1.45	0.2	-1.25	0	0	0	0	0	0	0	0
12/16/2024 18:27	14602	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/16/2024 18:27	67703	WERN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/16/2024 18:27	64802	MONE_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
12/16/2024 18:27	14603	SWHI_T1	0	0	0	0	0	0	-0.91	-0.92	1	1	0	600	600	0
12/16/2024 18:27	61103	BERK_T5	5	2	-3	0.14	0.15	0.01	-0.01	0	0	0	0	0	0	0
12/16/2024 18:27	46206	DANV_T2	0	0	0	0	0	0	2.05	2.02	2	2	0	2100	2100	0
12/16/2024 18:28	57201	ROSS_T1	0	0	0	0	0	0	-0.61	-0.68	0	0	0	0	0	0
12/16/2024 18:28	61103	BERK_T5	5	2	-3	0.14	0.15	0.01	-0.01	0	0	0	0	0	0	0
12/16/2024 18:28	47802	MOCA_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
12/16/2024 18:28	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:28	61102	BERK_T5	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/16/2024 18:28	67703	WERN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/16/2024 18:28	67402	WAKE_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
12/16/2024 18:28	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/16/2024 18:28	45302	WBER_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
12/16/2024 18:28	67106	SPRI_T2	0	0	0	0	0	0	-1.26	-1.26	1	1	0	900	900	0
12/16/2024 18:29	64702	LITI_T2	0	0	0	0	0	0	-0.73	-0.76	0	0	0	0	0	0
12/16/2024 18:29	41902	REED_T1	7	9	2	1.44	0.48	-0.96	0	0	0	0	0	0	0	0
12/16/2024 18:29	54504	ENOL_T2	0	0	0	0	0	0	-1.04	-1.02	1	1	0	600	600	0
12/16/2024 18:29	42501	ALTA_T2	0	0	0	0	0	0	-0.01	0.12	1	1	0	600	600	0
12/16/2024 18:29	60301	TWVA_T2	0	1	1	0	0	0	-2	-2.04	2	2	0	1800	1800	0
12/16/2024 18:29	54505	ENOL_T2	0	1	1	0	0.2	0.2	-1.21	-1.24	1	1	0	600	600	0
12/16/2024 18:29	41901	REED_T1	3	6	3	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
12/16/2024 18:29	57702	PAXT_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
12/16/2024 18:29	45802	HEGI_T2	28	43	15	0.61	0.98	0.37	-0.07	-0.16	1	1	0	900	900	0
12/16/2024 18:29	14602	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/16/2024 18:29	41903	REED_T1	0	0	0	0	0	0	-0.3	-0.24	1	1	0	1200	1200	0
12/16/2024 18:30	61103	BERK_T5	1	16	15	0.1	0.16	0.06	-0.01	0	0	0	0	0	0	0
12/16/2024 18:30	61102	BERK_T5	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/16/2024 18:30	57701	PAXT_T1	0	0	0	0	0	0	-1.03	-1.03	1	1	0	900	900	0
12/16/2024 18:31	61103	BERK_T5	1	16	15	0.1	0.16	0.06	0	0	0	0	0	0	0	0
12/16/2024 18:31	14602	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/16/2024 18:31	61102	BERK_T5	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/16/2024 18:31	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:31	63803	HEMP_T1	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
12/16/2024 18:31	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:31	63804	HEMP_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
12/16/2024 18:32	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:32	67605	WARW_T1	1	2	1	0.1	0.15	0.05	-0.87	-0.89	0	0	0	0	0	0
12/16/2024 18:32	58202	NEWV_T1	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
12/16/2024 18:32	64702	LITI_T2	0	0	0	0	0	0	-0.73	-0.76	0	0	0	0	0	0
12/16/2024 18:32	60301	TWVA_T2	0	1	1	0	0	0	-4	-4.08	4	4	0	3600	3600	0
12/16/2024 18:32	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:33	53901	HALI_T2	3	6	3	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/16/2024 18:33	24204	PROV_T3	2	2	0	3	3	0	0	0	0	0	0	0	0	0
12/16/2024 18:33	53902	HALI_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
12/16/2024 18:33	46101	MACI_T2	0	0	0	0	0	0	0.79	0.75	0	0	0	0	0	0
12/16/2024 18:33	53903	HALI_T2	5	25	20	0.76	0.31	-0.45	-0.18	-0.18	0	0	0	0	0	0
12/16/2024 18:33	14602	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/16/2024 18:33	57702	PAXT_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
12/16/2024 18:33	24201	PROV_T3	1	1	0	7.3	6.9	-0.4	-1.39	-1.37	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/16/2024 18:33	43801	SWIL_T1	2	2	0	3.15	3.15	0	0	0	0	0	0	0	0	0
12/16/2024 18:33	57201	ROSS_T1	0	9	9	0	0.12	0.12	-0.61	-0.68	0	0	0	0	0	0
12/16/2024 18:33	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:33	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:34	61103	BERK_T5	1	16	15	0.1	0.16	0.06	-0.01	0	0	0	0	0	0	0
12/16/2024 18:34	61102	BERK_T5	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/16/2024 18:34	67106	SPRI_T2	0	0	0	0	0	0	-1.26	-1.26	1	1	0	900	900	0
12/16/2024 18:34	64904	MILL_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
12/16/2024 18:35	61102	BERK_T5	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/16/2024 18:35	57702	PAXT_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
12/16/2024 18:35	61103	BERK_T5	1	16	15	0.1	0.16	0.06	-0.01	0	0	0	0	0	0	0
12/16/2024 18:35	44905	SCOT_T1	66	59	-7	1.05	0.45	-0.6	0	0	0	0	0	0	0	0
12/16/2024 18:35	57201	ROSS_T1	0	9	9	0	0.12	0.12	-0.61	-0.68	0	0	0	0	0	0
12/16/2024 18:35	42501	ALTA_T2	0	0	0	0	0	0	-0.01	0.12	1	1	0	600	600	0
12/16/2024 18:36	21901	HUMB_T1	0	0	0	0	0	0	-1.97	-1.95	0	0	0	0	0	0
12/16/2024 18:37	44901	SCOT_T2	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
12/16/2024 18:37	52204	DEVO_T2	2	2	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
12/16/2024 18:37	14603	SWHI_T1	0	0	0	0	0	0	-0.92	-0.93	1	1	0	600	600	0
12/16/2024 18:37	14602	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/16/2024 18:37	14204	EALL_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
12/16/2024 18:37	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:37	61102	BERK_T5	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/16/2024 18:37	42501	ALTA_T2	0	0	0	0	0	0	0.12	0.03	1	1	0	600	600	0
12/16/2024 18:37	61103	BERK_T5	1	16	15	0.1	0.16	0.06	0	0.03	0	0	0	0	0	0
12/16/2024 18:38	42501	ALTA_T2	0	0	0	0	0	0	0.23	0.06	2	2	0	1200	1200	0
12/16/2024 18:38	54601	SUMM_T2	0	2	2	0	0.35	0.35	-1.75	-1.75	2	2	0	2100	2100	0
12/16/2024 18:38	24102	EHAZ_T1	14	11	-3	0.83	0.97	0.14	0	0	0	0	0	0	0	0
12/16/2024 18:38	20603	GRWO_T2	9	13	4	0.2	0.21	0.01	0.49	0.46	0	0	0	0	0	0
12/16/2024 18:38	24101	EHAZ_T1	50	40	-10	1.86	1.45	-0.41	0	0	0	0	0	0	0	0
12/16/2024 18:38	46101	MACI_T2	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
12/16/2024 18:38	24105	EHAZ_T1	17	16	-1	2.28	6.63	4.35	-0.67	-0.69	0	0	0	0	0	0
12/16/2024 18:39	54601	SUMM_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
12/16/2024 18:39	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2024 18:39	57201	ROSS_T1	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
12/16/2024 18:39	14601	SWHI_T1	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
12/16/2024 18:39	57203	ROSS_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
12/16/2024 18:39	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/16/2024 18:39	14602	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/16/2024 18:39	46206	DANV_T2	0	0	0	0	0	0	2.02	2.01	2	2	0	2100	2100	0
12/16/2024 18:40	45001	LIME_2	9	18	9	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
12/16/2024 18:40	42501	ALTA_T2	0	0	0	0	0	0	0.12	0.03	1	1	0	600	600	0
12/16/2024 18:40	54505	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/16/2024 18:40	45002	LIME_2	1	1	0	3.2	4.3	1.1	-0.31	-0.32	0	0	0	0	0	0
12/16/2024 18:40	54503	ENOL_T2	0	0	0	0	0	0	-0.37	-0.38	1	1	0	600	600	0
12/16/2024 18:40	45003	LIME_2	1	2	1	3.1	3.2	0.1	0	0	0	0	0	0	0	0
12/16/2024 18:41	46101	MACI_T2	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
12/16/2024 18:41	46001	BERW_T1	0	0	0	0	0	0	0.69	0.65	0	0	0	0	0	0
12/16/2024 18:42	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/16/2024 18:42	54601	SUMM_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
12/16/2024 18:43	53903	HALI_T2	5	25	20	0.76	0.31	-0.45	0	0	0	0	0	0	0	0
12/16/2024 18:43	53902	HALI_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
12/16/2024 18:43	53901	HALI_T2	3	6	3	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/16/2024 19:11	67402	WAKE_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
12/16/2024 19:31	65503	MOJO_T2	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
12/16/2024 19:38	65503	MOJO_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
12/16/2024 19:42	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 8:45	22602	KIMB_T1	0	0	0	0	0	0	0.24	0.16	0	0	0	0	0	0
12/17/2024 9:00	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.46	0.5	0	0	0	0	0	0
12/17/2024 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
12/17/2024 9:00	67503	WEWI_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
12/17/2024 9:00	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/17/2024 9:09	60301	TWVA_T2	0	0	0	0	0	0	-3.17	-3.2	2	2	0	1800	1800	0
12/17/2024 9:11	61503	EPET_T1	0	0	0	0	0	0	-1.13	-1.11	0	0	0	0	0	0
12/17/2024 9:12	61503	EPET_T1	0	0	0	0	0	0	-1.13	-1.11	0	0	0	0	0	0
12/17/2024 9:13	63501	HEID_TBK1-2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
12/17/2024 9:28	63804	HEMP_T1	1	1	0	6.4	6.1	-0.3	0	0	0	0	0	0	0	0
12/17/2024 9:28	63801	HEMP_T1	0	0	0	0	0	0	-0.82	-0.89	1	1	0	900	900	0
12/17/2024 9:29	40101	HUNT_T2	33	77	44	0.31	0.17	-0.14	-1.31	-1.2	0	0	0	0	0	0
12/17/2024 9:30	45801	HEGI_T1	0	0	0	0	0	0	-0.78	-0.11	1	1	0	900	900	0
12/17/2024 9:30	45002	LIME_2	1	1	0	3.7	5.1	1.4	0	0	0	0	0	0	0	0
12/17/2024 9:30	45001	LIME_2	11	3	-8	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
12/17/2024 9:30	45003	LIME_2	1	1	0	2	2.6	0.6	0.5	0.43	0	0	0	0	0	0
12/17/2024 9:31	64801	MONE_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
12/17/2024 9:31	47901	HRDG_T1	0	0	0	0	0	0	2.09	1.28	0	1	1	0	1200	1200
12/17/2024 9:31	63804	HEMP_T1	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
12/17/2024 9:31	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 9:31	63801	HEMP_T1	0	0	0	0	0	0	-0.82	-0.89	1	1	0	900	900	0
12/17/2024 9:32	64802	MONE_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
12/17/2024 9:32	64801	MONE_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
12/17/2024 9:32	63802	HEMP_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
12/17/2024 9:32	63804	HEMP_T1	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
12/17/2024 9:33	65502	MOJO_T2	0	0	0	0	0	0	-0.27	-0.46	0	0	0	0	0	0
12/17/2024 9:35	43801	SWIL_T1	4	3	-1	1.45	1.8	0.35	0	0	0	0	0	0	0	0
12/17/2024 9:35	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.2	1	1	0	600	600	0
12/17/2024 9:36	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 9:36	43801	SWIL_T1	4	3	-1	1.45	1.8	0.35	0	0	0	0	0	0	0	0
12/17/2024 9:41	20603	GRWO_T2	0	0	0	0	0	0	-0.65	-0.66	1	1	0	900	900	0
12/17/2024 9:42	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-1.05	1	1	0	600	600	0
12/17/2024 9:42	54502	ENOL_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
12/17/2024 9:42	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
12/17/2024 9:45	10101	ALLE_T3	2	2	0	5.65	5.2	-0.45	0	0	0	0	0	0	0	0
12/17/2024 9:45	10109	ALLE_T3	0	4	4	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 9:45	10103	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 9:45	47104	MARL_T1	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
12/17/2024 9:45	10105	ALLE_T3	1	0	-1	3.6	0	-3.6	0	0	0	0	0	0	0	0
12/17/2024 9:47	10101	ALLE_T3	2	2	0	5.65	5.2	-0.45	0	0	0	0	0	0	0	0
12/17/2024 9:47	10105	ALLE_T3	1	0	-1	3.6	0	-3.6	0	0	0	0	0	0	0	0
12/17/2024 9:47	42902	MIDD_T2	0	0	0	0	0	0	-1.61	-1.67	2	2	0	1200	1200	0
12/17/2024 9:47	10103	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 9:47	10109	ALLE_T3	0	4	4	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 9:48	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 9:57	47101	MARL_T1	0	0	0	0	0	0	-0.75	-0.78	0	0	0	0	0	0
12/17/2024 9:58	65603	QVIL_T2	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
12/17/2024 9:59	47101	MARL_T1	0	0	0	0	0	0	-1.51	-1.57	0	0	0	0	0	0
12/17/2024 10:01	47101	MARL_T1	0	0	0	0	0	0	-0.75	-0.78	0	0	0	0	0	0
12/17/2024 10:01	64904	MILL_T1	0	0	0	0	0	0	0.43	0.39	0	0	0	0	0	0
12/17/2024 10:03	46602	LACR_T1	0	0	0	0	0	0	-0.81	-0.8	0	0	0	0	0	0
12/17/2024 10:04	25501	MADI_T1	3	4	1	1.6	1.55	-0.05	0	0	0	0	0	0	0	0
12/17/2024 10:04	25503	MADI_T1	0	0	0	0	0	0	-0.97	-0.86	0	0	0	0	0	0
12/17/2024 10:05	24202	PROV_T4	0	0	0	0	0	0	-0.78	-0.75	1	1	0	1200	1200	0
12/17/2024 10:07	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.56	1	1	0	900	900	0
12/17/2024 10:07	13202	PALM_T2	0	1	1	0	0	0	0	4	4	4	0	3600	3600	0
12/17/2024 10:07	55103	WERT_T1	1	1	0	8.7	3	-5.7	0	0	0	0	0	0	0	0
12/17/2024 10:09	55103	WERT_T1	1	1	0	8.7	3	-5.7	0	0	0	0	0	0	0	0
12/17/2024 10:09	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.56	1	1	0	900	900	0
12/17/2024 10:10	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 10:10	55103	WERT_T1	1	1	0	8.7	3	-5.7	0	0	0	0	0	0	0	0
12/17/2024 10:15	40101	HUNT_T2	2	11	9	0.3	0.3	0	-1.23	-1.27	0	0	0	0	0	0
12/17/2024 10:18	24201	PROV_T3	1	1	0	6.8	6.9	0.1	-1.48	-1.47	1	1	0	1200	1200	0
12/17/2024 10:18	24204	PROV_T3	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
12/17/2024 10:20	66903	SHIL_T2	0	0	0	0	0	0	-1.04	-1.09	0	0	0	0	0	0
12/17/2024 10:23	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 10:23	43801	SWIL_T1	1	1	0	5.2	5.1	-0.1	0	0	0	0	0	0	0	0
12/17/2024 10:23	43802	SWIL_T1	0	0	0	0	0	0	-0.19	-0.21	1	1	0	600	600	0
12/17/2024 10:28	54505	ENOL_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
12/17/2024 10:28	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
12/17/2024 10:28	54501	ENOL_T2	0	0	0	0	0	0	0.3	0	0	0	0	0	0	0
12/17/2024 10:30	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
12/17/2024 10:30	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
12/17/2024 10:30	54504	ENOL_T2	0	0	0	0	0	0	-1.07	0	1	1	0	600	600	0
12/17/2024 10:31	40101	HUNT_T2	10	10	0	0.24	0	-0.24	-1.27	-1.25	0	0	0	0	0	0
12/17/2024 10:32	40101	HUNT_T2	10	10	0	0.24	0	-0.24	-1.27	-1.25	0	0	0	0	0	0
12/17/2024 10:33	67106	SPRI_T2	0	0	0	0	0	0	-1.96	-1.97	1	1	0	900	900	0
12/17/2024 10:34	55002	NEWP_T1	6	6	0	0.98	1.02	0.04	-0.2	-0.2	0	0	0	0	0	0
12/17/2024 10:35	14601	SWHI_T1	0	0	0	0	0	0	-0.89	-0.87	0	0	0	0	0	0
12/17/2024 10:36	67106	SPRI_T2	0	0	0	0	0	0	-1.97	-1.95	1	1	0	900	900	0
12/17/2024 10:37	67106	SPRI_T2	0	0	0	0	0	0	-1.97	-1.95	1	1	0	900	900	0
12/17/2024 10:37	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 10:38	67605	WARW_T1	5	2	-3	0.24	0.25	0.01	-0.8	-0.83	0	0	0	0	0	0
12/17/2024 10:39	14601	SWHI_T1	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
12/17/2024 10:39	10705	CATA_T2	0	0	0	0	0	0	-0.97	-0.93	1	1	0	900	900	0
12/17/2024 10:39	10701	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 10:39	10801	CHHI_T1	0	0	0	0	0	0	-0.93	-0.83	1	1	0	900	900	0
12/17/2024 10:41	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 10:41	50624	CCTY_T2	2	2	0	7.05	7.1	0.05	0	0	0	0	0	0	0	0
12/17/2024 10:41	50625	CCTY_T2	4	4	0	6.1	6.33	0.23	0	0	0	0	0	0	0	0
12/17/2024 10:41	50623	CCTY_T2	6	6	0	6.58	6.55	-0.03	0	0	0	0	0	0	0	0
12/17/2024 10:41	41602	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/17/2024 10:41	10701	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 10:41	41601	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 10:41	10705	CATA_T2	0	0	0	0	0	0	-2.91	-2.78	3	3	0	2700	2700	0
12/17/2024 10:43	10705	CATA_T2	0	0	0	0	0	0	-1.94	-1.85	2	2	0	1800	1800	0
12/17/2024 10:43	58202	NEWV_T1	0	0	0	0	0	0	-0.08	-0.05	0	0	0	0	0	0
12/17/2024 10:43	10701	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 10:50	64101	REFR_T1	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
12/17/2024 10:50	57205	ROSS_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
12/17/2024 10:51	13905	SEID_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
12/17/2024 10:53	60801	BUCK_T1	0	0	0	0	0	0	0.08	0.15	0	0	0	0	0	0
12/17/2024 10:53	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 10:53	46002	BERW_T2	0	0	0	0	0	0	-0.55	-0.48	1	1	0	900	900	0
12/17/2024 10:53	46004	BERW_T2	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
12/17/2024 10:53	60803	BUCK_T1	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/17/2024 10:54	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
12/17/2024 10:55	54602	SUMM_T2	0	10	10	0	0.14	0.14	0	0	0	0	0	0	0	0
12/17/2024 10:55	54603	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 10:55	54601	SUMM_T2	9	10	1	0.61	0.74	0.13	0	0	2	2	0	2100	2100	0
12/17/2024 10:56	48302	ORWI_T2	2	2	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
12/17/2024 10:57	60803	BUCK_T1	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
12/17/2024 10:57	13101	NHAM_T1	1	1	0	0.9	0.7	-0.2	-2.25	-2.26	2	2	0	2400	2400	0
12/17/2024 10:57	60801	BUCK_T1	0	0	0	0	0	0	0.08	0.15	0	0	0	0	0	0
12/17/2024 10:58	24204	PROV_T3	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
12/17/2024 10:58	24201	PROV_T3	1	4	3	6.9	1.68	-5.22	-1.49	-1.47	1	1	0	1200	1200	0
12/17/2024 10:59	10705	CATA_T2	0	1	1	0	0	0	-0.93	-1	1	1	0	900	900	0
12/17/2024 11:01	42902	MIDD_T2	0	2	2	0	0.4	0.4	-0.76	-0.67	1	1	0	600	600	0
12/17/2024 11:01	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 11:02	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 11:02	42902	MIDD_T2	0	2	2	0	0.4	0.4	-0.76	-0.67	1	1	0	600	600	0
12/17/2024 11:03	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 11:03	42902	MIDD_T2	0	2	2	0	0.4	0.4	-0.76	-0.67	1	1	0	600	600	0
12/17/2024 11:04	42902	MIDD_T2	0	2	2	0	0.4	0.4	-0.76	-0.67	1	1	0	600	600	0
12/17/2024 11:04	48301	ORWI_T1	2	2	0	5.3	5.6	0.3	-0.46	-0.46	1	1	0	900	900	0
12/17/2024 11:04	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 11:06	54602	SUMM_T2	0	10	10	0	0.14	0.14	0	0	2	2	0	1200	1200	0
12/17/2024 11:06	54601	SUMM_T2	8	9	1	0.56	0.81	0.25	0	0	4	4	0	4200	4200	0
12/17/2024 11:06	54603	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 11:07	54603	SUMM_T2	0	2	2	0	0.1	0.1	0	0	1	1	0	900	900	0
12/17/2024 11:07	54601	SUMM_T2	8	9	1	0.56	0.81	0.25	0	0	0	0	0	0	0	0
12/17/2024 11:07	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 11:07	42701	AUGU_T1	0	1	1	0	0.8	0.8	0	0	2	2	0	1800	1800	0
12/17/2024 11:07	54602	SUMM_T2	0	10	10	0	0.14	0.14	0	0	0	0	0	0	0	0
12/17/2024 11:08	54603	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 11:08	54601	SUMM_T2	8	9	1	0.56	0.81	0.25	0	0	0	0	0	0	0	0
12/17/2024 11:08	54602	SUMM_T2	0	10	10	0	0.14	0.14	0	0	0	0	0	0	0	0
12/17/2024 11:09	54602	SUMM_T2	0	10	10	0	0.14	0.14	0	0	0	0	0	0	0	0
12/17/2024 11:09	54601	SUMM_T2	8	9	1	0.56	0.81	0.25	0	0	0	0	0	0	0	0
12/17/2024 11:09	54603	SUMM_T2	0	2	2	0	0.1	0.1	0	0	1	1	0	900	900	0
12/17/2024 11:09	46004	BERW_T2	0	1	1	0	0	0	-0.14	-0.2	0	0	0	0	0	0
12/17/2024 11:10	54601	SUMM_T2	8	9	1	0.56	0.81	0.25	0	0	2	2	0	2100	2100	0
12/17/2024 11:10	54602	SUMM_T2	0	10	10	0	0.14	0.14	0	0	0	0	0	0	0	0
12/17/2024 11:10	54603	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 11:11	54603	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 11:11	54601	SUMM_T2	8	9	1	0.56	0.81	0.25	0	0	2	2	0	2100	2100	0
12/17/2024 11:11	54602	SUMM_T2	0	10	10	0	0.14	0.14	0	0	0	0	0	0	0	0
12/17/2024 11:14	41002	LAUR_T2	4	27	23	0.7	0.29	-0.41	-0.99	-1.02	0	0	0	0	0	0
12/17/2024 11:14	45002	LIME_2	1	1	0	5.7	6.1	0.4	0.54	0.55	0	0	0	0	0	0
12/17/2024 11:14	40101	HUNT_T2	7	2	-5	0.18	0	-0.18	-1.3	-0.79	0	0	0	0	0	0
12/17/2024 11:14	45001	LIME_2	4	28	24	0.18	0.28	0.1	0	0	0	0	0	0	0	0
12/17/2024 11:14	41001	LAUR_T2	30	66	36	0.17	0.23	0.06	0	0	0	0	0	0	0	0
12/17/2024 11:14	45003	LIME_2	1	1	0	3.3	4.1	0.8	0	0	0	0	0	0	0	0
12/17/2024 11:15	45003	LIME_2	1	1	0	3.4	4.2	0.8	0	0	0	0	0	0	0	0
12/17/2024 11:15	63501	HEID_TBK1-2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/17/2024 11:15	45001	LIME_2	0	33	33	0	0.36	0.36	0	0	0	0	0	0	0	0
12/17/2024 11:15	45002	LIME_2	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 11:15	13502	MCMI_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
12/17/2024 11:16	45002	LIME_2	1	1	0	6	6.1	0.1	0.54	0.55	0	0	0	0	0	0
12/17/2024 11:16	45001	LIME_2	0	33	33	0	0.36	0.36	0	0	0	0	0	0	0	0
12/17/2024 11:16	45003	LIME_2	1	1	0	3.4	4.2	0.8	0	0	0	0	0	0	0	0
12/17/2024 11:17	13503	MCMI_T2	0	1	1	0	0.2	0.2	0.03	0.03	0	0	0	0	0	0
12/17/2024 11:20	54602	SUMM_T2	10	0	-10	0.14	0	-0.14	0	0	1	1	0	600	600	0
12/17/2024 11:20	54603	SUMM_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 11:20	54601	SUMM_T2	9	6	-3	0.81	0.52	-0.29	0	0	0	0	0	0	0	0
12/17/2024 11:21	14801	TREI_T2	0	1	1	0	0.1	0.1	0.84	0.82	0	0	0	0	0	0
12/17/2024 11:21	58402	MORO_T1	0	0	0	0	0	0	-0.97	-0.94	3	3	0	2400	2400	0
12/17/2024 11:22	54602	SUMM_T2	10	0	-10	0.14	0	-0.14	0	0	0	0	0	0	0	0
12/17/2024 11:22	54601	SUMM_T2	9	6	-3	0.81	0.52	-0.29	0	0	0	0	0	0	0	0
12/17/2024 11:22	54603	SUMM_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 11:23	54603	SUMM_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 11:23	54601	SUMM_T2	9	6	-3	0.81	0.52	-0.29	0	0	0	0	0	0	0	0
12/17/2024 11:23	17002	RIRO_T2	29	50	21	0.14	0.16	0.02	0.62	0.59	0	0	0	0	0	0
12/17/2024 11:23	54602	SUMM_T2	10	0	-10	0.14	0	-0.14	0	0	0	0	0	0	0	0
12/17/2024 11:24	54603	SUMM_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 11:24	21705	SUBU_T1	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
12/17/2024 11:24	21701	SUBU_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
12/17/2024 11:24	54602	SUMM_T2	10	0	-10	0.14	0	-0.14	0	0	1	1	0	600	600	0
12/17/2024 11:24	54601	SUMM_T2	9	6	-3	0.81	0.52	-0.29	0	0	0	0	0	0	0	0
12/17/2024 11:24	21901	HUMB_T1	0	0	0	0	0	0	-2.23	-2.18	0	0	0	0	0	0
12/17/2024 11:24	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 11:24	21702	SUBU_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 11:25	45501	DERR_T2	0	0	0	0	0	0	1.53	1.56	4	4	0	3600	3600	0
12/17/2024 11:25	54601	SUMM_T2	9	6	-3	0.81	0.52	-0.29	0	0	2	2	0	2100	2100	0
12/17/2024 11:25	54603	SUMM_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 11:25	54602	SUMM_T2	10	0	-10	0.14	0	-0.14	0	0	0	0	0	0	0	0
12/17/2024 11:26	48902	FOSP_T2	0	1	1	0	0.2	0.2	0.56	0.43	0	0	0	0	0	0
12/17/2024 11:27	57702	PAXT_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
12/17/2024 11:27	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
12/17/2024 11:28	48901	FOSP_T2	0	0	0	0	0	0	-0.2	-0.1	1	1	0	600	600	0
12/17/2024 11:28	48902	FOSP_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/17/2024 11:29	48901	FOSP_T2	0	0	0	0	0	0	-0.2	-0.1	1	1	0	600	600	0
12/17/2024 11:29	48902	FOSP_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/17/2024 11:31	10105	ALLE_T3	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 11:31	10101	ALLE_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
12/17/2024 11:31	46504	LOHA_T1	11	2	-9	0.32	1	0.68	0	0	0	0	0	0	0	0
12/17/2024 11:31	14205	EALL_T2	0	0	0	0	0	0	-0.28	-0.32	0	0	0	0	0	0
12/17/2024 11:31	46506	LOHA_T1	4	4	0	3.35	3.8	0.45	0	0	0	0	0	0	0	0
12/17/2024 11:31	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 11:31	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
12/17/2024 11:32	46504	LOHA_T1	11	2	-9	0.32	1	0.68	0	0	0	0	0	0	0	0
12/17/2024 11:32	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
12/17/2024 11:32	46506	LOHA_T1	4	4	0	3.35	3.8	0.45	0	0	0	0	0	0	0	0
12/17/2024 11:33	12807	MICK_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
12/17/2024 11:33	12803	MICK_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
12/17/2024 11:33	12802	MICK_T1	0	0	0	0	0	0	-1.17	-1.18	0	0	0	0	0	0
12/17/2024 11:33	14204	EALL_T2	0	0	0	0	0	0	0.26	0.32	0	0	0	0	0	0
12/17/2024 11:34	58401	MORO_T1	0	0	0	0	0	0	-1.09	-1.11	1	1	0	600	600	0
12/17/2024 11:35	42902	MIDD_T2	2	6	4	0.4	0.37	-0.03	-0.67	-0.76	1	1	0	600	600	0
12/17/2024 11:35	42903	MIDD_T2	2	2	0	0.1	0.55	0.45	0	0	0	0	0	0	0	0
12/17/2024 11:35	57203	ROSS_T1	0	0	0	0	0	0	-0.28	-0.26	0	0	0	0	0	0
12/17/2024 11:36	58401	MORO_T1	0	0	0	0	0	0	-1.09	-1.11	1	1	0	600	600	0
12/17/2024 11:36	44901	SCOT_T2	0	0	0	0	0	0	0.41	0.31	0	0	0	0	0	0
12/17/2024 11:36	60201	ATGL_T2	3	12	9	0.13	0.15	0.02	0.01	0.07	0	0	0	0	0	0
12/17/2024 11:36	57201	ROSS_T1	0	0	0	0	0	0	-0.88	-0.95	0	0	0	0	0	0
12/17/2024 11:36	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 11:37	57201	ROSS_T1	0	0	0	0	0	0	-0.95	-0.6	0	0	0	0	0	0
12/17/2024 11:38	57203	ROSS_T1	0	0	0	0	0	0	-0.26	-0.3	0	0	0	0	0	0
12/17/2024 11:38	57201	ROSS_T1	0	0	0	0	0	0	-0.48	-0.3	0	0	0	0	0	0
12/17/2024 11:38	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 11:39	10801	CHHI_T1	0	0	0	0	0	0	-0.93	-0.78	1	1	0	900	900	0
12/17/2024 11:41	44801	EDAN_T2	0	2	2	0	0.2	0.2	-0.41	-0.4	0	0	0	0	0	0
12/17/2024 11:42	53903	HALI_T2	2	2	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
12/17/2024 11:42	53901	HALI_T2	1	1	0	0.6	1	0.4	-1.01	-1.01	0	0	0	0	0	0
12/17/2024 11:42	53902	HALI_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
12/17/2024 11:44	40101	HUNT_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 11:45	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
12/17/2024 11:45	53903	HALI_T2	2	3	1	1.3	0.93	-0.37	-0.11	-0.11	0	0	0	0	0	0
12/17/2024 11:45	53901	HALI_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
12/17/2024 11:47	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
12/17/2024 11:47	55001	NEWP_T1	2	3	1	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
12/17/2024 11:47	55002	NEWP_T1	7	9	2	1.46	1.24	-0.22	-0.22	-0.23	0	0	0	0	0	0
12/17/2024 11:47	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.13	0	0	0	0	0	0
12/17/2024 11:47	53901	HALI_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
12/17/2024 11:47	40101	HUNT_T2	3	2	-1	0.17	0.2	0.03	-0.81	-0.67	0	0	0	0	0	0
12/17/2024 11:47	53903	HALI_T2	2	3	1	1.3	0.93	-0.37	0	0	0	0	0	0	0	0
12/17/2024 11:48	55002	NEWP_T1	7	9	2	1.46	1.24	-0.22	-0.22	-0.23	0	0	0	0	0	0
12/17/2024 11:48	55001	NEWP_T1	2	3	1	0.55	0.53	-0.02	-0.31	-0.34	0	0	0	0	0	0
12/17/2024 11:48	13503	MCMI_T2	1	2	1	0.2	0.15	-0.05	-0.01	0	0	0	0	0	0	0
12/17/2024 11:48	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.13	0	0	0	0	0	0
12/17/2024 11:48	50501	MECH_T1	4	4	0	0.6	0.83	0.23	0	0	0	0	0	0	0	0
12/17/2024 11:48	50502	MECH_T1	1	1	0	1.6	2.1	0.5	0	0	0	0	0	0	0	0
12/17/2024 11:48	50505	MECH_T1	0	0	0	0	0	0	-0.83	-0.8	0	0	0	0	0	0
12/17/2024 11:49	14201	EALL_T1	0	0	0	0	0	0	0.52	0.55	0	0	0	0	0	0
12/17/2024 11:49	55001	NEWP_T1	2	3	1	0.55	0.53	-0.02	-0.31	-0.34	0	0	0	0	0	0
12/17/2024 11:49	64101	REFR_T1	0	0	0	0	0	0	-0.4	-0.26	0	0	0	0	0	0
12/17/2024 11:49	55002	NEWP_T1	7	9	2	1.46	1.24	-0.22	-0.22	-0.23	0	0	0	0	0	0
12/17/2024 11:50	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.13	0	0	0	0	0	0
12/17/2024 11:51	44902	SCOT_T2	0	0	0	0	0	0	-0.98	-0.94	0	0	0	0	0	0
12/17/2024 11:51	55001	NEWP_T1	2	3	1	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
12/17/2024 11:51	44901	SCOT_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 11:51	55002	NEWP_T1	7	9	2	1.46	1.24	-0.22	-0.22	-0.23	0	0	0	0	0	0
12/17/2024 11:52	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
12/17/2024 11:52	54202	PENN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 11:52	54206	PENN_T2	1	0	-1	0.1	0	-0.1	-0.05	-0.05	0	0	0	0	0	0
12/17/2024 11:52	54203	PENN_T1	18	19	1	1.32	1.27	-0.05	-0.01	-0.04	0	0	0	0	0	0
12/17/2024 11:52	54201	PENN_T1	9	11	2	0.43	0.55	0.12	0	0	0	0	0	0	0	0
12/17/2024 11:53	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
12/17/2024 11:53	14801	TREI_T2	1	1	0	0.1	0.6	0.5	0.4	0.43	0	0	0	0	0	0
12/17/2024 11:54	43101	SMIL_T2	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
12/17/2024 11:54	43105	SMIL_T2	10	9	-1	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
12/17/2024 11:54	43103	SMIL_T2	9	11	2	0.37	0.43	0.06	0	0	0	0	0	0	0	0
12/17/2024 11:54	43102	SMIL_T2	6	6	0	0.75	0.97	0.22	0	0	0	0	0	0	0	0
12/17/2024 11:56	41305	FISH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/17/2024 11:56	41301	FISH_T1	3	13	10	1.33	0.45	-0.88	-0.3	-0.29	0	0	0	0	0	0
12/17/2024 11:57	47203	FAXO_T2	0	9	9	0	0	0	-1.77	-1.74	1	1	0	1200	1200	0
12/17/2024 11:57	47202	FAXO_T2	0	0	0	0	0	0	-2.38	-2.35	0	0	0	0	0	0
12/17/2024 11:58	48901	FOSP_T2	0	1	1	0	0.2	0.2	-0.15	-0.18	1	1	0	600	600	0
12/17/2024 11:58	48902	FOSP_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/17/2024 11:59	63803	HEMP_T1	3	1	-2	0.3	0.3	0	0.23	0.26	0	0	0	0	0	0
12/17/2024 11:59	57104	SPHI_T2	1	3	2	1.1	0.6	-0.5	-1.21	-1.22	0	0	0	0	0	0
12/17/2024 11:59	63801	HEMP_T1	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/17/2024 11:59	57101	SPHI_T2	6	4	-2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/17/2024 11:59	48901	FOSP_T2	0	1	1	0	0.2	0.2	-0.15	-0.18	1	1	0	600	600	0
12/17/2024 11:59	57106	SPHI_T2	3	3	0	1.8	1.63	-0.17	0	0	0	0	0	0	0	0
12/17/2024 11:59	63804	HEMP_T1	1	1	0	6	6.2	0.2	0	0	0	0	0	0	0	0
12/17/2024 11:59	63802	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 11:59	48902	FOSP_T2	1	2	1	0.2	0.45	0.25	0.55	0.36	0	0	0	0	0	0
12/17/2024 12:00	47203	FAXO_T2	0	9	9	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 12:00	47202	FAXO_T2	0	0	0	0	0	0	-2.38	-2.35	0	0	0	0	0	0
12/17/2024 12:00	48901	FOSP_T2	0	1	1	0	0.2	0.2	-0.15	-0.18	1	1	0	600	600	0
12/17/2024 12:00	48902	FOSP_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
12/17/2024 12:01	48901	FOSP_T2	0	1	1	0	0.2	0.2	-0.15	-0.18	1	1	0	600	600	0
12/17/2024 12:01	48902	FOSP_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
12/17/2024 12:03	13901	SEID_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/17/2024 12:03	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 12:05	13302	ORVI_T2	1	3	2	0.3	0.27	-0.03	1.37	1.4	0	0	0	0	0	0
12/17/2024 12:07	13302	ORVI_T2	1	3	2	0.3	0.27	-0.03	2.8	2.75	0	0	0	0	0	0
12/17/2024 12:07	45602	WOOL_T1	0	1	1	0	0.1	0.1	0.63	0.62	0	0	0	0	0	0
12/17/2024 12:07	45601	WOOL_T1	1	0	-1	1.8	0	-1.8	0	0	0	0	0	0	0	0
12/17/2024 12:08	21701	SUBU_T1	1	2	1	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
12/17/2024 12:08	21704	SUBU_T1	0	0	0	0	0	0	-2.41	-2.44	2	2	0	2400	2400	0
12/17/2024 12:08	21702	SUBU_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 12:08	21705	SUBU_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
12/17/2024 12:09	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 12:09	63801	HEMP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/17/2024 12:09	63803	HEMP_T1	1	1	0	0.2	0.3	0.1	0.13	0.22	0	0	0	0	0	0
12/17/2024 12:09	44502	HAMI_T2	1	1	0	3.1	3	-0.1	0	0	0	0	0	0	0	0
12/17/2024 12:09	63804	HEMP_T1	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
12/17/2024 12:09	45501	DERR_T2	0	2	2	0	0.15	0.15	0.71	0.73	2	2	0	1800	1800	0
12/17/2024 12:10	61302	EARL_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
12/17/2024 12:10	61303	EARL_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
12/17/2024 12:11	61304	EARL_T1	0	0	0	0	0	0	-0.86	-0.91	1	1	0	600	600	0
12/17/2024 12:11	21206	ECAR_T2	1	1	0	7.5	7.8	0.3	0.5	0.46	0	0	0	0	0	0
12/17/2024 12:11	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 12:11	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 12:11	61302	EARL_T1	1	1	0	0.1	0.7	0.6	0.26	0.18	2	2	0	1800	1800	0
12/17/2024 12:11	44502	HAMI_T2	1	1	0	3.1	3	-0.1	0	0	0	0	0	0	0	0
12/17/2024 12:11	44505	HAMI_T2	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
12/17/2024 12:11	60901	DONG_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/17/2024 12:12	44801	EDAN_T2	2	3	1	0.2	0.57	0.37	-0.41	-0.41	0	0	0	0	0	0
12/17/2024 12:13	13302	ORVI_T2	1	3	2	0.3	0.27	-0.03	1.4	1.38	0	0	0	0	0	0
12/17/2024 12:13	61304	EARL_T1	0	0	0	0	0	0	-0.86	-0.91	1	1	0	600	600	0
12/17/2024 12:13	61302	EARL_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
12/17/2024 12:14	64702	LITI_T2	0	0	0	0	0	0	-0.68	-0.78	0	0	0	0	0	0
12/17/2024 12:15	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 12:15	10101	ALLE_T3	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
12/17/2024 12:15	25503	MADI_T1	0	0	0	0	0	0	-0.91	-0.95	0	0	0	0	0	0
12/17/2024 12:15	10103	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 12:15	64702	LITI_T2	0	0	0	0	0	0	-0.68	-0.78	0	0	0	0	0	0
12/17/2024 12:15	10105	ALLE_T3	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
12/17/2024 12:15	25501	MADI_T1	3	4	1	1.63	1.55	-0.08	0	0	0	0	0	0	0	0
12/17/2024 12:16	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
12/17/2024 12:17	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 12:17	13503	MCMI_T2	1	0	-1	0.2	0	-0.2	0.04	0.03	0	0	0	0	0	0
12/17/2024 12:17	44201	POIN_T1	33	79	46	0.15	0.21	0.06	-1.69	-1.69	2	2	0	2100	2100	0
12/17/2024 12:17	64801	MONE_T2	9	11	2	0.17	0.21	0.04	0.26	0.26	0	0	0	0	0	0
12/17/2024 12:17	64802	MONE_T2	171	291	120	0.17	0.21	0.04	0	0	0	0	0	0	0	0
12/17/2024 12:18	64802	MONE_T2	171	291	120	0.17	0.21	0.04	0	0	0	0	0	0	0	0
12/17/2024 12:18	44201	POIN_T1	33	79	46	0.15	0.21	0.06	-5.06	-5.07	6	6	0	6300	6300	0
12/17/2024 12:18	64801	MONE_T2	9	11	2	0.17	0.21	0.04	0	0	0	0	0	0	0	0
12/17/2024 12:19	44201	POIN_T1	33	79	46	0.15	0.21	0.06	-1.69	-1.69	2	2	0	2100	2100	0
12/17/2024 12:20	57203	ROSS_T1	0	0	0	0	0	0	-0.27	0.36	0	0	0	0	0	0
12/17/2024 12:20	57205	ROSS_T1	1	1	0	0.5	0.8	0.3	0.3	0.24	0	0	0	0	0	0
12/17/2024 12:20	15601	NSTR_T2	2	3	1	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
12/17/2024 12:20	57201	ROSS_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
12/17/2024 12:20	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 12:20	15603	NSTR_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
12/17/2024 12:21	57205	ROSS_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
12/17/2024 12:21	43102	SMIL_T2	5	7	2	0.7	0.87	0.17	-0.87	-0.89	1	1	0	600	600	0
12/17/2024 12:21	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 12:21	64101	REFR_T1	0	1	1	0	0.1	0.1	-0.15	-0.15	0	0	0	0	0	0
12/17/2024 12:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 12:21	43105	SMIL_T2	9	15	6	0.17	0.29	0.12	0	0	0	0	0	0	0	0
12/17/2024 12:21	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 12:21	43103	SMIL_T2	11	17	6	0.42	0.46	0.04	0	0	0	0	0	0	0	0
12/17/2024 12:21	57201	ROSS_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
12/17/2024 12:22	44201	POIN_T1	33	79	46	0.15	0.21	0.06	-3.38	-2.12	4	4	0	4200	4200	0
12/17/2024 12:23	13302	ORVI_T2	1	3	2	0.2	0.45	0.25	2.75	2.84	0	0	0	0	0	0
12/17/2024 12:23	15603	NSTR_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
12/17/2024 12:23	15601	NSTR_T2	2	3	1	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
12/17/2024 12:23	59102	WALK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/17/2024 12:23	59101	WALK_T2	0	0	0	0	0	0	2.27	2.24	0	0	0	0	0	0
12/17/2024 12:24	59102	WALK_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/17/2024 12:24	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 12:24	43103	SMIL_T2	11	17	6	0.42	0.46	0.04	0	0	0	0	0	0	0	0
12/17/2024 12:24	59101	WALK_T2	0	0	0	0	0	0	4.54	4.47	0	0	0	0	0	0
12/17/2024 12:24	44502	HAMI_T2	1	1	0	3	2.9	-0.1	0	0	0	0	0	0	0	0
12/17/2024 12:24	44505	HAMI_T2	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
12/17/2024 12:24	43105	SMIL_T2	9	15	6	0.17	0.29	0.12	0	0	0	0	0	0	0	0
12/17/2024 12:24	43102	SMIL_T2	5	7	2	0.7	0.87	0.17	-0.87	-0.89	1	1	0	600	600	0
12/17/2024 12:25	15601	NSTR_T2	2	3	1	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
12/17/2024 12:25	15603	NSTR_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
12/17/2024 12:27	21206	ECAR_T2	1	1	0	7.7	7.8	0.1	0	0	0	0	0	0	0	0
12/17/2024 12:27	45801	HEGI_T1	0	0	0	0	0	0	-0.18	-0.07	1	1	0	900	900	0
12/17/2024 12:27	21204	ECAR_T2	1	1	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
12/17/2024 12:30	13501	MCMI_T1	0	0	0	0	0	0	0.13	0.17	0	0	0	0	0	0
12/17/2024 12:30	13502	MCMI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 12:32	48902	FOSP_T2	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/17/2024 12:32	48901	FOSP_T2	1	0	-1	0.1	0	-0.1	-0.15	-0.18	1	1	0	600	600	0
12/17/2024 12:33	10707	CATA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/17/2024 12:33	51603	DUKE_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
12/17/2024 12:33	10702	CATA_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/17/2024 12:33	10705	CATA_T2	0	1	1	0	1.6	1.6	-1	-1.02	1	1	0	900	900	0
12/17/2024 12:33	10703	CATA_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
12/17/2024 12:35	43105	SMIL_T2	15	12	-3	0.29	0.29	0	0	0	0	0	0	0	0	0
12/17/2024 12:35	43102	SMIL_T2	6	8	2	0.9	0.93	0.03	0	0	0	0	0	0	0	0
12/17/2024 12:35	43103	SMIL_T2	17	18	1	0.46	0.49	0.03	0	0	0	0	0	0	0	0
12/17/2024 12:35	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 12:36	43103	SMIL_T2	17	18	1	0.46	0.49	0.03	-0.91	-0.95	0	0	0	0	0	0
12/17/2024 12:36	43102	SMIL_T2	6	8	2	0.9	0.93	0.03	0	0	0	0	0	0	0	0
12/17/2024 12:36	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 12:36	43105	SMIL_T2	15	12	-3	0.29	0.29	0	0	0	0	0	0	0	0	0
12/17/2024 12:37	14603	SWHI_T1	2	1	-1	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
12/17/2024 12:37	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 12:37	43103	SMIL_T2	17	18	1	0.46	0.49	0.03	-0.91	-0.95	0	0	0	0	0	0
12/17/2024 12:37	64101	REFR_T1	1	0	-1	0.1	0	-0.1	-0.15	-0.19	0	0	0	0	0	0
12/17/2024 12:37	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 12:37	43102	SMIL_T2	6	8	2	0.9	0.93	0.03	0	0	0	0	0	0	0	0
12/17/2024 12:37	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 12:37	43105	SMIL_T2	15	12	-3	0.29	0.29	0	0	0	0	0	0	0	0	0
12/17/2024 12:37	50701	SMEC_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
12/17/2024 12:39	43105	SMIL_T2	15	12	-3	0.29	0.29	0	0	0	0	0	0	0	0	0
12/17/2024 12:39	43102	SMIL_T2	6	8	2	0.9	0.93	0.03	-0.89	-0.86	1	1	0	600	600	0
12/17/2024 12:39	43103	SMIL_T2	17	18	1	0.46	0.49	0.03	0	0	0	0	0	0	0	0
12/17/2024 12:39	45501	DERR_T2	2	2	0	0.15	0.3	0.15	0.68	0.76	2	2	0	1800	1800	0
12/17/2024 12:39	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 12:39	64101	REFR_T1	1	0	-1	0.1	0	-0.1	-0.15	-0.19	0	0	0	0	0	0
12/17/2024 12:39	14603	SWHI_T1	2	1	-1	0.8	0.2	-0.6	-2.05	-2.03	2	2	0	1200	1200	0
12/17/2024 12:39	14601	SWHI_T1	0	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0
12/17/2024 12:39	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 12:39	45502	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 12:40	50701	SMEC_T1	0	2	2	0	0.55	0.55	0	-0.01	0	0	0	0	0	0
12/17/2024 12:45	17401	FOHI_T1	0	0	0	0	0	0	-2.32	-2.29	0	0	0	0	0	0
12/17/2024 12:45	44801	EDAN_T2	3	3	0	0.53	0.57	0.04	-0.43	-0.44	0	0	0	0	0	0
12/17/2024 12:49	13303	ORVI_T1	0	0	0	0	0	0	1.05	1.05	0	0	0	0	0	0
12/17/2024 12:54	41602	CLEV_T1	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
12/17/2024 12:54	41601	CLEV_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/17/2024 12:57	24105	EHAZ_T1	4	4	0	6.25	6.28	0.03	0	0	0	0	0	0	0	0
12/17/2024 12:57	24104	EHAZ_T1	0	0	0	0	0	0	-0.85	-0.85	1	1	0	1200	1200	0
12/17/2024 12:57	13303	ORVI_T1	0	0	0	0	0	0	1.05	1.03	0	0	0	0	0	0
12/17/2024 12:57	24101	EHAZ_T1	4	8	4	0.68	0.56	-0.12	0	0	0	0	0	0	0	0
12/17/2024 12:58	41601	CLEV_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/17/2024 12:58	41602	CLEV_T1	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
12/17/2024 13:00	46102	MACI_T1	0	1	1	0	0	0	0.62	0.62	0	0	0	0	0	0
12/17/2024 13:00	63501	HEID_TBK1-2	0	26	26	0	0.2	0.2	-0.06	-0.08	2	2	0	1800	1800	0
12/17/2024 13:03	14203	EALL_T1	0	0	0	0	0	0	-0.74	-0.75	2	2	0	2400	2400	0
12/17/2024 13:05	66504	SMAN_T2	0	1	1	0	0.4	0.4	-0.51	-0.51	0	0	0	0	0	0
12/17/2024 13:05	43104	SMIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/17/2024 13:05	43105	SMIL_T2	12	10	-2	0.29	0.18	-0.11	0	0	0	0	0	0	0	0
12/17/2024 13:05	14203	EALL_T1	0	0	0	0	0	0	-0.37	-0.38	1	1	0	1200	1200	0
12/17/2024 13:05	43102	SMIL_T2	8	7	-1	0.83	0.71	-0.12	0	0	0	0	0	0	0	0
12/17/2024 13:05	66505	SMAN_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
12/17/2024 13:05	66502	SMAN_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
12/17/2024 13:05	43103	SMIL_T2	18	19	1	0.49	0.49	0	0	0	0	0	0	0	0	0
12/17/2024 13:05	66501	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
12/17/2024 13:06	66505	SMAN_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
12/17/2024 13:06	66501	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
12/17/2024 13:06	66502	SMAN_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
12/17/2024 13:06	66504	SMAN_T2	0	1	1	0	0.4	0.4	-0.51	-0.53	0	0	0	0	0	0
12/17/2024 13:07	66505	SMAN_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
12/17/2024 13:07	66504	SMAN_T2	0	1	1	0	0.4	0.4	-1.02	-1.06	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/17/2024 13:07	66501	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
12/17/2024 13:07	66502	SMAN_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
12/17/2024 13:08	66502	SMAN_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
12/17/2024 13:08	66505	SMAN_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
12/17/2024 13:08	66504	SMAN_T2	0	1	1	0	0.4	0.4	-0.51	-0.53	0	0	0	0	0	0
12/17/2024 13:08	66501	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
12/17/2024 13:09	66501	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
12/17/2024 13:09	66502	SMAN_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
12/17/2024 13:09	66504	SMAN_T2	0	1	1	0	0.4	0.4	-0.51	-0.53	0	0	0	0	0	0
12/17/2024 13:09	66505	SMAN_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
12/17/2024 13:11	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 13:13	47202	FAXO_T2	0	0	0	0	0	0	-2.37	-2.35	0	0	0	0	0	0
12/17/2024 13:13	53903	HALI_T2	4	5	1	0.98	0.98	0	-0.13	-0.13	0	0	0	0	0	0
12/17/2024 13:13	53901	HALI_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
12/17/2024 13:13	53902	HALI_T2	1	2	1	5.6	3.1	-2.5	0	0	0	0	0	0	0	0
12/17/2024 13:14	63501	HEID_TBK1-2	0	26	26	0	0.2	0.2	-0.04	-0.07	1	1	0	900	900	0
12/17/2024 13:15	52003	LING_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 13:15	52001	LING_T1	0	0	0	0	0	0	0.19	0.14	0	0	0	0	0	0
12/17/2024 13:16	53901	HALI_T2	1	1	0	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
12/17/2024 13:16	52004	LING_T2	2	2	0	4.35	4.55	0.2	0.06	0.05	0	0	0	0	0	0
12/17/2024 13:16	63501	HEID_TBK1-2	26	23	-3	0.2	0.17	-0.03	-0.04	-0.07	1	1	0	900	900	0
12/17/2024 13:16	53903	HALI_T2	5	3	-2	0.98	0.7	-0.28	0	0	0	0	0	0	0	0
12/17/2024 13:16	53902	HALI_T2	2	1	-1	3.1	5.5	2.4	0	0	0	0	0	0	0	0
12/17/2024 13:17	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 13:17	53902	HALI_T2	2	1	-1	3.1	5.5	2.4	0	0	0	0	0	0	0	0
12/17/2024 13:17	53901	HALI_T2	1	1	0	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
12/17/2024 13:17	54502	ENOL_T2	1	5	4	0.8	0.32	-0.48	0	0	0	0	0	0	0	0
12/17/2024 13:17	54506	ENOL_T2	0	0	0	0	0	0	0.35	0.26	0	0	0	0	0	0
12/17/2024 13:17	54505	ENOL_T2	1	2	1	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
12/17/2024 13:17	53903	HALI_T2	5	3	-2	0.98	0.7	-0.28	-0.13	-0.13	0	0	0	0	0	0
12/17/2024 13:20	48303	ORWI_T2	1	1	0	0.3	0.1	-0.2	0.59	0.55	0	0	0	0	0	0
12/17/2024 13:20	48302	ORWI_T2	2	2	0	1.7	2	0.3	0	0	0	0	0	0	0	0
12/17/2024 13:21	13303	ORVI_T1	0	0	0	0	0	0	1.03	1.06	0	0	0	0	0	0
12/17/2024 13:22	51304	WIND_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/17/2024 13:22	50701	SMEC_T1	2	1	-1	0.15	0.3	0.15	0.18	0.21	0	0	0	0	0	0
12/17/2024 13:22	51306	WIND_T2	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
12/17/2024 13:24	50701	SMEC_T1	2	1	-1	0.15	0.3	0.15	0.09	0.11	0	0	0	0	0	0
12/17/2024 13:25	61001	DONV_T1	2	1	-1	0.2	0.3	0.1	-0.33	-0.32	0	0	0	0	0	0
12/17/2024 13:25	61005	DONV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 13:26	44504	HAMI_T2	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
12/17/2024 13:26	41801	GOCI_T2	3	25	22	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
12/17/2024 13:26	44502	HAMI_T2	1	1	0	2.8	3.2	0.4	0.06	0.05	0	0	0	0	0	0
12/17/2024 13:27	20603	GRWO_T2	2	7	5	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
12/17/2024 13:27	20601	GRWO_T2	0	0	0	0	0	0	0.32	0.36	0	0	0	0	0	0
12/17/2024 13:27	41801	GOCI_T2	3	25	22	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
12/17/2024 13:29	16102	BING_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
12/17/2024 13:30	41801	GOCI_T2	8	25	17	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
12/17/2024 13:31	20603	GRWO_T2	7	9	2	0.14	0.13	-0.01	0.35	0.44	0	0	0	0	0	0
12/17/2024 13:35	14705	TREX_T1	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
12/17/2024 13:35	14704	TREX_T1	1	1	0	6.8	6.2	-0.6	0	0	0	0	0	0	0	0
12/17/2024 13:37	67401	WAKE_T2	0	6	6	0	0.1	0.1	-1.1	-1.07	0	0	0	0	0	0
12/17/2024 13:37	67402	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 13:38	57205	ROSS_T1	1	3	2	0.7	0.43	-0.27	0	0	0	0	0	0	0	0
12/17/2024 13:38	57201	ROSS_T1	1	13	12	0.2	0.2	0	0	0	0	0	0	0	0	0
12/17/2024 13:38	57203	ROSS_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
12/17/2024 13:40	29201	APPE_T1	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
12/17/2024 13:40	67401	WAKE_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 13:40	67402	WAKE_T2	0	1	1	0	0.1	0.1	1.01	1	0	0	0	0	0	0
12/17/2024 13:40	29202	APPE_T1	3	17	14	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
12/17/2024 13:41	60803	BUCK_T1	1	11	10	0.1	0.17	0.07	0	0	0	0	0	0	0	0
12/17/2024 13:41	60801	BUCK_T1	0	1	1	0	0.2	0.2	0.1	0.11	0	0	0	0	0	0
12/17/2024 13:43	52402	GRPA_T2	7	10	3	0.69	0.6	-0.09	0	0	0	0	0	0	0	0
12/17/2024 13:43	62105	ELAN_T1	7	46	39	0.11	0.13	0.02	0	0	0	0	0	0	0	0
12/17/2024 13:43	52403	GRPA_T2	28	28	0	0.73	0.77	0.04	-0.17	-0.18	0	0	0	0	0	0
12/17/2024 13:43	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/17/2024 13:43	52401	GRPA_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/17/2024 13:43	62106	ELAN_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/17/2024 13:43	52404	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/17/2024 13:43	62102	ELAN_T1	1	1	0	0.5	0.6	0.1	0.59	0.55	0	0	0	0	0	0
12/17/2024 13:43	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 13:44	52401	GRPA_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/17/2024 13:44	52402	GRPA_T2	7	10	3	0.69	0.6	-0.09	-0.92	-0.96	0	0	0	0	0	0
12/17/2024 13:44	52404	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/17/2024 13:44	52403	GRPA_T2	28	28	0	0.73	0.77	0.04	-0.17	-0.18	0	0	0	0	0	0
12/17/2024 13:45	52403	GRPA_T2	27	27	0	0.8	0.67	-0.13	-0.17	-0.18	0	0	0	0	0	0
12/17/2024 13:45	52404	GRPA_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/17/2024 13:45	52401	GRPA_T2	2	2	0	0.4	0.35	-0.05	-0.53	-0.5	0	0	0	0	0	0
12/17/2024 13:45	52402	GRPA_T2	10	9	-1	0.52	0.6	0.08	-0.92	-0.96	0	0	0	0	0	0
12/17/2024 13:47	44703	MUNC_T2	3	3	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
12/17/2024 13:47	44702	MUNC_T2	64	97	33	0.19	0.19	0	0	0	0	0	0	0	0	0
12/17/2024 13:47	44701	MUNC_T2	7	9	2	0.13	0.23	0.1	-1.03	-1.08	0	0	0	0	0	0
12/17/2024 13:52	44903	SCOT_T1	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
12/17/2024 13:53	40301	TAMA_T3	4	5	1	0.53	0.45	-0.08	0	0	0	0	0	0	0	0
12/17/2024 13:53	40302	TAMA_T3	18	25	7	0.46	0.36	-0.1	0	0	0	0	0	0	0	0
12/17/2024 13:53	40303	TAMA_T3	1	4	3	0.2	4	3.8	2.5	2.46	0	0	0	0	0	0
12/17/2024 13:53	44903	SCOT_T1	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
12/17/2024 13:53	44901	SCOT_T2	0	0	0	0	0	0	0.19	0.27	0	0	0	0	0	0
12/17/2024 13:54	60901	DONG_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/17/2024 13:54	60902	DONG_T2	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
12/17/2024 13:54	44903	SCOT_T1	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
12/17/2024 13:56	62106	ELAN_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/17/2024 13:56	62102	ELAN_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
12/17/2024 13:56	62101	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/17/2024 13:56	62105	ELAN_T1	42	23	-19	0.13	0.11	-0.02	0	0	0	0	0	0	0	0
12/17/2024 13:56	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/17/2024 13:57	62102	ELAN_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
12/17/2024 13:57	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/17/2024 13:57	62101	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/17/2024 13:57	62106	ELAN_T1	2	2	0	0.3	0.3	0	0.56	1.03	0	0	0	0	0	0
12/17/2024 13:57	11203	ELHE_T1	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0	0
12/17/2024 13:57	62105	ELAN_T1	42	23	-19	0.13	0.11	-0.02	0.32	0.32	0	0	0	0	0	0
12/17/2024 13:58	62101	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/17/2024 13:58	62106	ELAN_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/17/2024 13:58	55503	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 13:58	55501	HERS_T1	52	52	0	0.61	0.6	-0.01	0	0	0	0	0	0	0	0
12/17/2024 13:58	62105	ELAN_T1	42	23	-19	0.13	0.11	-0.02	0.32	0.32	0	0	0	0	0	0
12/17/2024 13:58	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/17/2024 13:58	62102	ELAN_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
12/17/2024 13:59	17802	GILB_T1	4	4	0	0.73	0.63	-0.1	0.1	0.08	0	0	0	0	0	0
12/17/2024 13:59	55508	HERS_T2	2	2	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
12/17/2024 14:00	55508	HERS_T2	2	2	0	1.6	1.6	0	0	0	0	0	0	0	0	0
12/17/2024 14:00	62105	ELAN_T1	23	0	-23	0.11	0	-0.11	0	0	0	0	0	0	0	0
12/17/2024 14:00	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 14:00	62106	ELAN_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/17/2024 14:00	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 14:00	62102	ELAN_T1	1	1	0	0.6	0.3	-0.3	0.55	0.48	0	0	0	0	0	0
12/17/2024 14:00	45802	HEGI_T2	10	23	13	0.22	0.64	0.42	0	0	0	0	0	0	0	0
12/17/2024 14:01	52402	GRPA_T2	9	7	-2	0.59	0.7	0.11	0	0	0	0	0	0	0	0
12/17/2024 14:01	52404	GRPA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/17/2024 14:01	52401	GRPA_T2	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
12/17/2024 14:01	52403	GRPA_T2	27	23	-4	0.67	0.57	-0.1	-0.18	-0.19	0	0	0	0	0	0
12/17/2024 14:03	13901	SEID_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/17/2024 14:03	55507	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 14:03	67401	WAKE_T2	4	6	2	0.1	0.1	0	0	0	0	0	0	0	0	0
12/17/2024 14:03	13904	SEID_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/17/2024 14:03	55508	HERS_T2	2	2	0	1.6	1.6	0	0	0	0	0	0	0	0	0
12/17/2024 14:03	67402	WAKE_T2	1	0	-1	0.1	0	-0.1	1	1	0	0	0	0	0	0
12/17/2024 14:03	55501	HERS_T1	52	52	0	0.6	0.49	-0.11	0	0	0	0	0	0	0	0
12/17/2024 14:05	66502	SMAN_T2	4	2	-2	0.25	0.15	-0.1	0.35	0.32	0	0	0	0	0	0
12/17/2024 14:05	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	-0.92	-0.9	0	0	0	0	0	0
12/17/2024 14:05	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 14:05	66505	SMAN_T2	3	3	0	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
12/17/2024 14:06	66505	SMAN_T2	3	3	0	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
12/17/2024 14:06	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 14:06	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/17/2024 14:06	66502	SMAN_T2	4	2	-2	0.25	0.15	-0.1	0.95	0.89	0	0	0	0	0	0
12/17/2024 14:07	66502	SMAN_T2	4	2	-2	0.25	0.15	-0.1	0.63	0.59	0	0	0	0	0	0
12/17/2024 14:07	66505	SMAN_T2	3	3	0	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
12/17/2024 14:07	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	-0.9	-0.92	0	0	0	0	0	0
12/17/2024 14:07	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 14:08	65202	PRIN_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/17/2024 14:08	66502	SMAN_T2	4	2	-2	0.25	0.15	-0.1	0.32	0.3	0	0	0	0	0	0
12/17/2024 14:08	66505	SMAN_T2	3	3	0	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
12/17/2024 14:08	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 14:08	65205	PRIN_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
12/17/2024 14:08	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/17/2024 14:09	66502	SMAN_T2	4	2	-2	0.25	0.15	-0.1	0.32	0.3	0	0	0	0	0	0
12/17/2024 14:09	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/17/2024 14:09	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 14:09	66505	SMAN_T2	3	3	0	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
12/17/2024 14:10	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 14:10	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/17/2024 14:10	66502	SMAN_T2	4	2	-2	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
12/17/2024 14:10	66505	SMAN_T2	3	3	0	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
12/17/2024 14:11	11303	EMMA_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
12/17/2024 14:11	11301	EMMA_T1	0	0	0	0	0	0	-1.74	-1.76	0	0	0	0	0	0
12/17/2024 14:12	66505	SMAN_T2	3	3	0	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
12/17/2024 14:12	66502	SMAN_T2	4	2	-2	0.25	0.15	-0.1	0.32	0.3	0	0	0	0	0	0
12/17/2024 14:12	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/17/2024 14:12	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 14:14	26704	HEMI_T2	3	23	20	0.1	0.13	0.03	-0.84	-0.86	1	1	0	1200	1200	0
12/17/2024 14:16	52404	GRPA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/17/2024 14:16	52402	GRPA_T2	7	4	-3	0.7	0.83	0.13	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/17/2024 14:16	52403	GRPA_T2	23	18	-5	0.56	0.45	-0.11	-0.19	-0.2	0	0	0	0	0	0
12/17/2024 14:16	52401	GRPA_T2	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
12/17/2024 14:18	44701	MUNC_T2	8	6	-2	0.21	0.22	0.01	-1.02	-1.03	0	0	0	0	0	0
12/17/2024 14:18	44702	MUNC_T2	66	66	0	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/17/2024 14:18	44703	MUNC_T2	3	3	0	1.23	1.2	-0.03	0	0	0	0	0	0	0	0
12/17/2024 14:23	42504	ALTA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/17/2024 14:23	42503	ALTA_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
12/17/2024 14:23	57205	ROSS_T1	3	4	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
12/17/2024 14:23	42501	ALTA_T2	0	0	0	0	0	0	1.19	1.17	0	0	0	0	0	0
12/17/2024 14:23	57203	ROSS_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
12/17/2024 14:23	57201	ROSS_T1	10	16	6	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
12/17/2024 14:24	42501	ALTA_T2	0	0	0	0	0	0	1.19	1.17	0	0	0	0	0	0
12/17/2024 14:24	56803	BENV_T1	2	2	0	0.7	0.7	0	0.13	0.11	0	0	0	0	0	0
12/17/2024 14:24	56801	BENV_T1	1	2	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
12/17/2024 14:24	42504	ALTA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/17/2024 14:25	42501	ALTA_T2	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
12/17/2024 14:25	42504	ALTA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/17/2024 14:25	14201	EALL_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
12/17/2024 14:25	67401	WAKE_T2	4	47	43	0.1	0.28	0.18	-2.27	-2.3	0	0	0	0	0	0
12/17/2024 14:27	21402	EXET_T2	2	5	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
12/17/2024 14:27	21403	EXET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 14:31	15601	NSTR_T2	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/17/2024 14:31	15603	NSTR_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
12/17/2024 14:33	44201	POIN_T1	137	54	-83	0.24	0.2	-0.04	-1.67	-1.71	2	2	0	2100	2100	0
12/17/2024 14:33	63501	HEID_TBK1-2	1	2	1	0.1	0.5	0.4	-0.06	-0.1	1	1	0	900	900	0
12/17/2024 14:34	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.18	0	0	0	0	0	0
12/17/2024 14:37	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
12/17/2024 14:38	44301	BEAV_T2	0	0	0	0	0	0	-0.43	-0.3	0	0	0	0	0	0
12/17/2024 14:38	44302	BEAV_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/17/2024 14:39	61304	EARL_T1	0	0	0	0	0	0	-0.96	-0.84	1	1	0	600	600	0
12/17/2024 14:39	41202	KENM_T2	1	1	0	0.7	0.8	0.1	-0.63	-0.59	0	0	0	0	0	0
12/17/2024 14:40	64902	MILL_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
12/17/2024 14:40	44301	BEAV_T2	0	0	0	0	0	0	-0.43	-0.3	0	0	0	0	0	0
12/17/2024 14:40	44302	BEAV_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/17/2024 14:41	64901	MILL_T1	31	44	13	0.19	0.19	0	0	0	0	0	0	0	0	0
12/17/2024 14:41	64904	MILL_T1	1	1	0	0.1	0.1	0	0.35	0.33	0	0	0	0	0	0
12/17/2024 14:41	44302	BEAV_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/17/2024 14:41	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 14:42	44302	BEAV_T2	1	1	0	0.2	0.2	0	0.52	0.5	0	0	0	0	0	0
12/17/2024 14:44	64901	MILL_T1	31	44	13	0.19	0.19	0	0	0	0	0	0	0	0	0
12/17/2024 14:44	64904	MILL_T1	1	1	0	0.1	0.1	0	0.35	0.33	0	0	0	0	0	0
12/17/2024 14:45	22602	KIMB_T1	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
12/17/2024 14:45	22601	KIMB_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 14:47	22601	KIMB_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 14:47	22602	KIMB_T1	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
12/17/2024 14:50	51401	LYKE_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
12/17/2024 14:54	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 14:55	14801	TREI_T2	2	4	2	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
12/17/2024 14:55	14802	TREI_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
12/17/2024 15:04	48303	ORWI_T2	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
12/17/2024 15:04	48302	ORWI_T2	2	2	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0
12/17/2024 15:06	65207	PRIN_T4	3	2	-1	3.27	2.05	-1.22	0	0	1	1	0	1200	1200	0
12/17/2024 15:06	54203	PENN_T1	20	18	-2	1.2	1.27	0.07	-0.03	0	0	0	0	0	0	0
12/17/2024 15:06	54201	PENN_T1	11	11	0	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
12/17/2024 15:06	65206	PRIN_T4	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
12/17/2024 15:08	52403	GRPA_T2	12	12	0	0.37	0.64	0.27	-0.11	-0.13	0	0	0	0	0	0
12/17/2024 15:08	52401	GRPA_T2	2	2	0	0.15	0.5	0.35	0	0	0	0	0	0	0	0
12/17/2024 15:08	52402	GRPA_T2	3	13	10	0.97	0.49	-0.48	0	0	0	0	0	0	0	0
12/17/2024 15:08	52404	GRPA_T2	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
12/17/2024 15:11	42504	ALTA_T2	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
12/17/2024 15:11	42503	ALTA_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
12/17/2024 15:11	42501	ALTA_T2	1	2	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 15:14	43302	WATS_T2	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/17/2024 15:14	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 15:16	64201	KINZ_T1	1	1	0	0.1	0.1	0	-0.47	-0.37	2	2	0	1200	1200	0
12/17/2024 15:16	64204	KINZ_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
12/17/2024 15:18	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 15:18	43302	WATS_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
12/17/2024 15:21	58101	NEKI_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/17/2024 15:21	43801	SWIL_T1	12	8	-4	0.5	0.76	0.26	0	0	0	0	0	0	0	0
12/17/2024 15:21	58102	NEKI_T1	1	1	0	1.3	1.3	0	0.1	0.05	0	0	0	0	0	0
12/17/2024 15:21	43802	SWIL_T1	0	0	0	0	0	0	-0.22	-0.22	1	1	0	600	600	0
12/17/2024 15:22	43802	SWIL_T1	0	0	0	0	0	0	-0.22	-0.22	1	1	0	600	600	0
12/17/2024 15:22	43801	SWIL_T1	12	8	-4	0.5	0.76	0.26	0	0	0	0	0	0	0	0
12/17/2024 15:24	43802	SWIL_T1	0	0	0	0	0	0	-0.22	-0.22	1	1	0	600	600	0
12/17/2024 15:24	43801	SWIL_T1	12	8	-4	0.5	0.76	0.26	0	0	0	0	0	0	0	0
12/17/2024 15:25	14603	SWHI_T1	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
12/17/2024 15:27	55507	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 15:27	55501	HERS_T1	52	52	0	0.11	0.12	0.01	0	0	0	0	0	0	0	0
12/17/2024 15:30	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
12/17/2024 15:30	63803	HEMP_T1	0	1	1	0	0.1	0.1	0.13	0.1	0	0	0	0	0	0
12/17/2024 15:31	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 15:32	65502	MOJO_T2	0	0	0	0	0	0	-0.37	-0.58	0	0	0	0	0	0
12/17/2024 15:33	65004	NEFF_T2	0	0	0	0	0	0	-0.56	-0.55	0	0	0	0	0	0
12/17/2024 15:33	54602	SUMM_T2	0	0	0	0	0	0	0	-1.61	1	1	0	600	600	0
12/17/2024 15:33	54601	SUMM_T2	7	9	2	0.51	0.39	-0.12	0	0	0	0	0	0	0	0
12/17/2024 15:33	65003	NEFF_T2	4	41	37	0.2	0.13	-0.07	-1.81	-1.89	2	2	0	1800	1800	0
12/17/2024 15:34	65003	NEFF_T2	4	41	37	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
12/17/2024 15:35	14201	EALL_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
12/17/2024 15:46	40602	PIGR_T1	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
12/17/2024 15:46	40601	PIGR_T1	4	22	18	0.1	0.12	0.02	0	0	0	0	0	0	0	0
12/17/2024 15:51	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/17/2024 15:51	65205	PRIN_T1	1	1	0	0.7	1.4	0.7	0	0	0	0	0	0	0	0
12/17/2024 15:55	15104	UPHA_T2	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
12/17/2024 15:58	40703	FFLD_T1	3	4	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/17/2024 15:58	40702	FFLD_T1	3	23	20	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
12/17/2024 15:58	40701	FFLD_T1	22	30	8	0.32	0.41	0.09	0	0	0	0	0	0	0	0
12/17/2024 16:00	40701	FFLD_T1	29	33	4	0.4	0.56	0.16	0	0	0	0	0	0	0	0
12/17/2024 16:00	40703	FFLD_T1	4	4	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/17/2024 16:00	40702	FFLD_T1	22	57	35	0.19	0.19	0	-0.71	-0.64	1	1	0	1200	1200	0
12/17/2024 16:04	46101	MACI_T2	0	0	0	0	0	0	-0.1	-0.05	1	1	0	1200	1200	0
12/17/2024 18:05	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:05	40303	TAMA_T3	2	2	0	0.4	0.75	0.35	2.46	2.4	0	0	0	0	0	0
12/17/2024 18:05	40302	TAMA_T3	9	9	0	0.58	0.64	0.06	0	0	0	0	0	0	0	0
12/17/2024 18:31	26704	HEML_T2	0	0	0	0	0	0	-0.87	-0.86	1	1	0	1200	1200	0
12/17/2024 18:33	17002	RIRO_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
12/17/2024 18:34	13502	MCMI_T1	0	0	0	0	0	0	-0.2	-0.15	0	0	0	0	0	0
12/17/2024 18:35	47104	MARL_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
12/17/2024 18:35	47101	MARL_T1	6	2	-4	0.4	1.4	1	0	0	0	0	0	0	0	0
12/17/2024 18:35	48901	FOSP_T2	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
12/17/2024 18:37	13302	ORVI_T2	0	0	0	0	0	0	1.3	1.38	0	0	0	0	0	0
12/17/2024 18:37	15601	NSTR_T2	3	3	0	0.3	0.53	0.23	0	0	0	0	0	0	0	0
12/17/2024 18:37	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:37	14602	SWHI_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
12/17/2024 18:37	15603	NSTR_T2	0	0	0	0	0	0	-0.98	-0.92	0	0	0	0	0	0
12/17/2024 18:37	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:39	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:39	10105	ALLE_T3	14	22	8	0.46	1.35	0.89	0	0	0	0	0	0	0	0
12/17/2024 18:39	14602	SWHI_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
12/17/2024 18:39	14201	EALL_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
12/17/2024 18:39	21204	ECAR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/17/2024 18:39	21206	ECAR_T2	1	1	0	7.5	7.6	0.1	0.13	0.12	0	0	0	0	0	0
12/17/2024 18:39	10109	ALLE_T3	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
12/17/2024 18:39	10101	ALLE_T3	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
12/17/2024 18:40	46004	BERW_T2	2	1	-1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
12/17/2024 18:40	46002	BERW_T2	0	0	0	0	0	0	-1.13	-1.13	1	1	0	900	900	0
12/17/2024 18:41	14201	EALL_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
12/17/2024 18:41	62106	ELAN_T1	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
12/17/2024 18:41	13303	ORVI_T1	0	0	0	0	0	0	0.81	0.84	0	0	0	0	0	0
12/17/2024 18:41	20603	GRWO_T2	34	34	0	0.3	0.37	0.07	0.42	0.43	0	0	0	0	0	0
12/17/2024 18:41	44901	SCOT_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
12/17/2024 18:41	14203	EALL_T1	0	0	0	0	0	0	-0.54	-0.57	1	1	0	1200	1200	0
12/17/2024 18:41	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:41	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
12/17/2024 18:41	14801	TREI_T2	0	0	0	0	0	0	0.49	0.52	0	0	0	0	0	0
12/17/2024 18:41	16102	BING_T2	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
12/17/2024 18:42	44201	POIN_T1	0	0	0	0	0	0	-2.14	-2.06	2	2	0	2100	2100	0
12/17/2024 18:42	43102	SMIL_T2	1	6	5	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
12/17/2024 18:42	43105	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 18:42	66504	SMAN_T2	0	0	0	0	0	0	-0.86	-1.02	0	0	0	0	0	0
12/17/2024 18:42	66505	SMAN_T2	3	3	0	1	0.83	-0.17	0	0	0	0	0	0	0	0
12/17/2024 18:42	43103	SMIL_T2	4	4	0	0.2	0.45	0.25	0	0	0	0	0	0	0	0
12/17/2024 18:43	10101	ALLE_T3	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
12/17/2024 18:43	14801	TREI_T2	0	0	0	0	0	0	0.49	0.52	0	0	0	0	0	0
12/17/2024 18:43	10109	ALLE_T3	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
12/17/2024 18:43	10105	ALLE_T3	14	22	8	0.46	1.35	0.89	0	0	0	0	0	0	0	0
12/17/2024 18:43	65603	OVIL_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
12/17/2024 18:43	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:44	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:44	48901	FOSP_T2	0	0	0	0	0	0	0.58	0.64	0	0	0	0	0	0
12/17/2024 18:44	25501	MADI_T1	4	4	0	1.88	2.43	0.55	0	0	0	0	0	0	0	0
12/17/2024 18:44	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:44	44801	EDAN_T2	1	2	1	0.1	0	-0.1	-0.41	-0.4	0	0	0	0	0	0
12/17/2024 18:44	21206	ECAR_T2	1	1	0	7.5	7.6	0.1	0.13	0.12	0	0	0	0	0	0
12/17/2024 18:44	21204	ECAR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/17/2024 18:44	66502	SMAN_T2	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
12/17/2024 18:44	67106	SPRI_T2	0	0	0	0	0	0	-1.29	-1.28	1	1	0	900	900	0
12/17/2024 18:44	66505	SMAN_T2	3	3	0	1	0.83	-0.17	0	0	0	0	0	0	0	0
12/17/2024 18:44	47101	MARL_T1	6	2	-4	0.4	1.4	1	-0.72	-0.71	1	1	0	600	600	0
12/17/2024 18:44	25503	MADI_T1	0	4	4	0	0.1	0.1	-1.49	-1.49	0	0	0	0	0	0
12/17/2024 18:45	21901	HUMB_T1	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0
12/17/2024 18:45	14602	SWHI_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
12/17/2024 18:45	14201	EALL_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/17/2024 18:45	11301	EMMA_T1	0	0	0	0	0	0	-0.8	-0.83	0	0	0	0	0	0
12/17/2024 18:45	14801	TREI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:45	14603	SWHI_T1	0	0	0	0	0	0	-0.99	-0.99	1	1	0	600	600	0
12/17/2024 18:45	14705	TREX_T1	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
12/17/2024 18:45	21403	EXET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:45	14802	TREI_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
12/17/2024 18:45	40101	HUNT_T2	232	335	103	0.58	0.63	0.05	-2.74	-2.82	0	0	0	0	0	0
12/17/2024 18:45	44201	POIN_T1	0	0	0	0	0	0	-2.14	-2.06	2	2	0	2100	2100	0
12/17/2024 18:45	43801	SWIL_T1	2	2	0	3.35	3.1	-0.25	0	0	0	0	0	0	0	0
12/17/2024 18:45	10705	CATA_T2	0	0	0	0	0	0	0.04	0.16	0	0	0	0	0	0
12/17/2024 18:45	63803	HEMP_T1	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
12/17/2024 18:45	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.16	1	1	0	600	600	0
12/17/2024 18:45	24202	PROV_T4	6	1	-5	0.12	0	-0.12	-0.83	-0.8	1	1	0	1200	1200	0
12/17/2024 18:45	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
12/17/2024 18:45	14704	TREX_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
12/17/2024 18:45	45801	HEGI_T1	0	0	0	0	0	0	-0.4	-0.32	1	1	0	900	900	0
12/17/2024 18:45	17802	GILB_T1	0	0	0	0	0	0	0.09	0.15	0	0	0	0	0	0
12/17/2024 18:46	44701	MUNC_T2	0	0	0	0	0	0	-1.38	-1.37	0	0	0	0	0	0
12/17/2024 18:46	22602	KIMB_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
12/17/2024 18:46	44702	MUNC_T2	13	6	-7	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
12/17/2024 18:46	41202	KENM_T2	0	1	1	0	0.4	0.4	-0.53	-0.51	0	0	0	0	0	0
12/17/2024 18:46	64801	MONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 18:46	43103	SMIL_T2	4	4	0	0.45	0.28	-0.17	0	0	0	0	0	0	0	0
12/17/2024 18:46	64802	MONE_T2	3	1	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 18:46	63501	HEID_TBK1-2	0	0	0	0	0	0	0.79	0.87	0	0	0	0	0	0
12/17/2024 18:46	44703	MUNC_T2	3	3	0	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
12/17/2024 18:46	43105	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 18:46	61503	EPET_T1	0	0	0	0	0	0	-0.38	-0.44	0	0	0	0	0	0
12/17/2024 18:46	48301	ORWI_T1	2	2	0	5	4.8	-0.2	0.42	0.48	0	0	0	0	0	0
12/17/2024 18:46	13503	MCMI_T2	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
12/17/2024 18:46	43102	SMIL_T2	4	4	0	0.18	0.13	-0.05	-0.35	-0.34	0	0	0	0	0	0
12/17/2024 18:46	42501	ALTA_T2	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
12/17/2024 18:46	42902	MIDD_T2	0	1	1	0	0	0	-0.54	-0.51	0	0	0	0	0	0
12/17/2024 18:46	15601	NSTR_T2	3	3	0	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
12/17/2024 18:46	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 18:46	46004	BERW_T2	1	1	0	0.8	1	0.2	-0.3	-0.39	0	0	0	0	0	0
12/17/2024 18:46	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:46	41205	KENM_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:47	67401	WAKE_T2	0	0	0	0	0	0	-1.2	-1.2	0	0	0	0	0	0
12/17/2024 18:47	47203	FAXO_T2	1	1	0	0.9	0	-0.9	-1.75	-1.73	1	1	0	1200	1200	0
12/17/2024 18:47	11203	ELHE_T1	0	0	0	0	0	0	0.85	0.95	0	0	0	0	0	0
12/17/2024 18:47	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:47	40101	HUNT_T2	232	335	103	0.58	0.63	0.05	-1.37	-1.41	0	0	0	0	0	0
12/17/2024 18:47	14602	SWHI_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
12/17/2024 18:47	44903	SCOT_T1	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
12/17/2024 18:47	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:47	14203	EALL_T1	0	0	0	0	0	0	-0.54	-0.57	1	1	0	1200	1200	0
12/17/2024 18:47	47202	FAXO_T2	0	0	0	0	0	0	-2.28	-2.27	0	0	0	0	0	0
12/17/2024 18:47	66505	SMAN_T2	3	3	0	0.83	0.87	0.04	0	0	0	0	0	0	0	0
12/17/2024 18:47	14801	TREI_T2	0	1	1	0	0	0	0.49	0.52	0	0	0	0	0	0
12/17/2024 18:47	64904	MILL_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
12/17/2024 18:47	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:47	60301	TWVA_T2	0	0	0	0	0	0	-2.11	-2.09	2	2	0	1800	1800	0
12/17/2024 18:47	10705	CATA_T2	0	0	0	0	0	0	0.02	0.08	0	0	0	0	0	0
12/17/2024 18:47	55002	NEWP_T1	4	4	0	0.53	0.8	0.27	-0.22	-0.24	0	0	0	0	0	0
12/17/2024 18:47	12802	MICK_T1	0	0	0	0	0	0	-1.32	-1.3	0	0	0	0	0	0
12/17/2024 18:47	10109	ALLE_T3	3	3	0	0.57	0.33	-0.24	0	0	0	0	0	0	0	0
12/17/2024 18:47	48302	ORWI_T2	2	2	0	1.7	1.45	-0.25	0	0	0	0	0	0	0	0
12/17/2024 18:47	12807	MICK_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/17/2024 18:47	67106	SPRI_T2	0	0	0	0	0	0	-1.29	-1.28	1	1	0	900	900	0
12/17/2024 18:47	13901	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:47	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:47	66504	SMAN_T2	0	0	0	0	0	0	-0.43	-0.51	0	0	0	0	0	0
12/17/2024 18:47	43801	SWIL_T1	2	2	0	3.35	3.1	-0.25	0	0	0	0	0	0	0	0
12/17/2024 18:47	44201	POIN_T1	0	0	0	0	0	0	-2.14	-2.06	2	2	0	2100	2100	0
12/17/2024 18:47	14205	EALL_T2	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
12/17/2024 18:47	10105	ALLE_T3	16	22	6	1.39	0.35	-1.04	0	0	0	0	0	0	0	0
12/17/2024 18:47	10101	ALLE_T3	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
12/17/2024 18:47	12803	MICK_T1	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
12/17/2024 18:47	64901	MILL_T1	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
12/17/2024 18:47	14603	SWHI_T1	0	0	0	0	0	0	-0.99	-0.99	1	1	0	600	600	0
12/17/2024 18:47	52004	LING_T2	4	2	-2	2.28	3.3	1.02	0.04	0.05	0	0	0	0	0	0
12/17/2024 18:47	42501	ALTA_T2	0	0	0	0	0	0	1.29	1.29	0	0	0	0	0	0
12/17/2024 18:48	24102	EHAZ_T1	24	32	8	0.53	0.6	0.07	0	0	0	0	0	0	0	0
12/17/2024 18:48	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
12/17/2024 18:48	66504	SMAN_T2	0	0	0	0	0	0	-0.86	-1.02	0	0	0	0	0	0
12/17/2024 18:48	46602	LACR_T1	0	0	0	0	0	0	-0.83	-0.87	0	0	0	0	0	0
12/17/2024 18:48	24105	EHAZ_T1	4	4	0	6.58	6.5	-0.08	0	0	0	0	0	0	0	0
12/17/2024 18:48	53902	HALI_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
12/17/2024 18:48	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:48	53901	HALI_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
12/17/2024 18:48	53903	HALI_T2	2	2	0	0.8	1	0.2	-0.13	-0.13	0	0	0	0	0	0
12/17/2024 18:48	55001	NEWP_T1	0	1	1	0	0	0	-0.94	-0.9	1	1	0	600	600	0
12/17/2024 18:48	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
12/17/2024 18:48	54506	ENOL_T2	0	0	0	0	0	0	0.48	0.46	1	1	0	600	600	0
12/17/2024 18:48	55002	NEWP_T1	4	4	0	0.53	0.8	0.27	0	0	0	0	0	0	0	0
12/17/2024 18:48	48901	FOSP_T2	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
12/17/2024 18:48	44502	HAMI_T2	1	1	0	2.3	2.1	-0.2	0	0	0	0	0	0	0	0
12/17/2024 18:48	54504	ENOL_T2	0	0	0	0	0	0	-1.06	-1.08	1	1	0	600	600	0
12/17/2024 18:48	61303	EARL_T1	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
12/17/2024 18:48	24104	EHAZ_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	1200	1200	0
12/17/2024 18:48	50502	MECH_T1	1	1	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0
12/17/2024 18:48	43102	SMIL_T2	4	4	0	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
12/17/2024 18:48	50501	MECH_T1	4	5	1	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
12/17/2024 18:48	66505	SMAN_T2	3	3	0	0.83	0.87	0.04	0	0	0	0	0	0	0	0
12/17/2024 18:48	50505	MECH_T1	0	0	0	0	0	0	-0.93	-0.91	0	0	0	0	0	0
12/17/2024 18:48	44505	HAMI_T2	1	0	-1	0.7	0	-0.7	0.51	0.51	0	0	0	0	0	0
12/17/2024 18:48	43302	WATS_T2	4	1	-3	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
12/17/2024 18:48	43105	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 18:48	48902	FOSP_T2	0	0	0	0	0	0	0.11	0.15	0	0	0	0	0	0
12/17/2024 18:48	44903	SCOT_T1	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
12/17/2024 18:48	43103	SMIL_T2	4	4	0	0.45	0.28	-0.17	-0.9	-0.93	0	0	0	0	0	0
12/17/2024 18:48	24101	EHAZ_T1	3	6	3	0.13	0	-0.13	0	0	0	0	0	0	0	0
12/17/2024 18:49	44903	SCOT_T1	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
12/17/2024 18:49	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/17/2024 18:49	17401	FOHI_T1	0	0	0	0	0	0	-2.24	-2.23	0	0	0	0	0	0
12/17/2024 18:49	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/17/2024 18:49	54601	SUMM_T2	0	0	0	0	0	0	-1.89	-1.88	2	2	0	2100	2100	0
12/17/2024 18:49	64702	LITI_T2	0	1	1	0	0	0	-0.74	-0.73	0	0	0	0	0	0
12/17/2024 18:49	22602	KIMB_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
12/17/2024 18:49	21705	SUBU_T1	1	2	1	5.8	5.8	0	0	0	0	0	0	0	0	0
12/17/2024 18:49	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:49	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:49	21702	SUBU_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:49	13503	MCMI_T2	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
12/17/2024 18:49	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:49	55002	NEWP_T1	4	4	0	0.53	0.8	0.27	-0.22	-0.24	0	0	0	0	0	0
12/17/2024 18:49	45902	AUBU_T1	0	2	2	0	0	0	0.01	0.01	1	1	0	600	600	0
12/17/2024 18:49	65205	PRIN_T1	1	2	1	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
12/17/2024 18:49	21701	SUBU_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
12/17/2024 18:49	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
12/17/2024 18:49	47901	HRDG_T1	0	0	0	0	0	0	1.76	1.77	0	0	0	0	0	0
12/17/2024 18:49	10801	CHHI_T1	0	0	0	0	0	0	-0.95	-0.91	1	1	0	900	900	0
12/17/2024 18:49	13101	NHAM_T1	1	4	3	0.5	0.5	0	-3.1	-2.98	2	2	0	2400	2400	0
12/17/2024 18:49	66505	SMAN_T2	3	3	0	0.83	0.87	0.04	0	0	0	0	0	0	0	0
12/17/2024 18:49	48902	FOSP_T2	0	0	0	0	0	0	0.11	0.15	0	0	0	0	0	0
12/17/2024 18:49	54602	SUMM_T2	0	0	0	0	0	0	-1.64	-1.63	1	1	0	600	600	0
12/17/2024 18:49	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:49	24204	PROV_T3	2	2	0	3	3.05	0.05	0	0	0	0	0	0	0	0
12/17/2024 18:49	13302	ORVI_T2	0	0	0	0	0	0	1.3	1.38	0	0	0	0	0	0
12/17/2024 18:49	14602	SWHI_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
12/17/2024 18:49	24201	PROV_T3	1	1	0	6.4	6.5	0.1	-1.45	-1.46	1	1	0	1200	1200	0
12/17/2024 18:49	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:49	66504	SMAN_T2	0	0	0	0	0	0	-0.43	-0.51	0	0	0	0	0	0
12/17/2024 18:49	54201	PENN_T1	3	5	2	0.17	0.36	0.19	0	0	0	0	0	0	0	0
12/17/2024 18:49	54203	PENN_T1	18	18	0	0.52	0.73	0.21	-0.07	-0.1	0	0	0	0	0	0
12/17/2024 18:50	62106	ELAN_T1	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
12/17/2024 18:50	15601	NSTR_T2	3	3	0	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
12/17/2024 18:50	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
12/17/2024 18:50	66505	SMAN_T2	3	3	0	0.83	0.87	0.04	0	0	0	0	0	0	0	0
12/17/2024 18:50	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
12/17/2024 18:50	54601	SUMM_T2	0	0	0	0	0	0	-1.89	-1.88	2	2	0	2100	2100	0
12/17/2024 18:50	42902	MIDD_T2	0	1	1	0	0	0	-0.54	-0.51	0	0	0	0	0	0
12/17/2024 18:50	48901	FOSP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:50	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 18:50	66502	SMAN_T2	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
12/17/2024 18:50	61302	EARL_T1	0	0	0	0	0	0	-0.25	-0.26	2	2	0	1800	1800	0
12/17/2024 18:50	44201	POIN_T1	0	0	0	0	0	0	-2.14	-2.06	2	2	0	2100	2100	0
12/17/2024 18:50	42503	ALTA_T2	0	0	0	0	0	0	0.41	0.45	0	0	0	0	0	0
12/17/2024 18:51	13202	PALM_T2	0	0	0	0	0	0	0	0	3	3	0	3000	3000	0
12/17/2024 18:51	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:51	40702	FFLD_T1	6	5	-1	0.27	0.32	0.05	0	0	0	0	0	0	0	0
12/17/2024 18:51	44505	HAMI_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
12/17/2024 18:51	64802	MONE_T2	3	1	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 18:51	63803	HEMP_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
12/17/2024 18:51	54203	PENN_T1	18	18	0	0.52	0.73	0.21	-0.07	-0.1	0	0	0	0	0	0
12/17/2024 18:51	14602	SWHI_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
12/17/2024 18:51	40701	FFLD_T1	25	27	2	0.41	0.3	-0.11	0	0	0	0	0	0	0	0
12/17/2024 18:51	54201	PENN_T1	3	5	2	0.17	0.36	0.19	0	0	0	0	0	0	0	0
12/17/2024 18:51	10705	CATA_T2	0	0	0	0	0	0	0.02	0.08	0	0	0	0	0	0
12/17/2024 18:51	48302	ORWI_T2	2	2	0	1.7	1.45	-0.25	0	0	0	0	0	0	0	0
12/17/2024 18:51	64801	MONE_T2	1	0	-1	0.1	0	-0.1	0.29	0.31	0	0	0	0	0	0
12/17/2024 18:51	62105	ELAN_T1	0	0	0	0	0	0	0.4	0.44	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/17/2024 18:51	42902	MIDD_T2	0	1	1	0	0	0	-0.51	-0.53	0	0	0	0	0	0
12/17/2024 18:51	63501	HEID_TBK1-2	0	0	0	0	0	0	0.44	0.36	0	0	0	0	0	0
12/17/2024 18:51	21701	SUBU_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
12/17/2024 18:51	21704	SUBU_T1	0	0	0	0	0	0	-1.3	-1.3	1	1	0	1200	1200	0
12/17/2024 18:51	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:51	44301	BEAV_T2	2	1	-1	1	0	-1	-0.09	0.18	1	1	0	600	600	0
12/17/2024 18:51	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
12/17/2024 18:51	46101	MACI_T2	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
12/17/2024 18:51	64204	KINZ_T1	17	5	-12	0.25	0.34	0.09	0	0	0	0	0	0	0	0
12/17/2024 18:51	47101	MARL_T1	2	1	-1	0.9	1.4	0.5	-0.71	-0.66	1	1	0	600	600	0
12/17/2024 18:51	64201	KINZ_T1	7	0	0	0.54	0.44	-0.1	-0.54	-0.53	2	2	0	1200	1200	0
12/17/2024 18:51	21702	SUBU_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:51	45602	WOOL_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
12/17/2024 18:51	44302	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:51	57201	ROSS_T1	0	0	0	0	0	0	-0.7	-0.73	0	0	0	0	0	0
12/17/2024 18:51	45501	DERR_T2	0	0	0	0	0	0	1.21	1.26	4	4	0	3600	3600	0
12/17/2024 18:51	44902	SCOT_T2	0	1	1	0	0	0	-0.99	-0.97	0	0	0	0	0	0
12/17/2024 18:51	40703	FFLD_T1	3	3	0	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
12/17/2024 18:51	64202	KINZ_T1	5	2	-3	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/17/2024 18:51	44502	HAMI_T2	1	1	0	2.3	2.1	-0.2	0.02	0.02	0	0	0	0	0	0
12/17/2024 18:51	13303	ORVI_T1	0	0	0	0	0	0	0.81	0.84	0	0	0	0	0	0
12/17/2024 18:51	48303	ORWI_T2	0	0	0	0	0	0	1.27	1.22	0	0	0	0	0	0
12/17/2024 18:51	42503	ALTA_T2	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
12/17/2024 18:51	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 18:51	45801	HEGI_T1	0	0	0	0	0	0	-0.32	-0.3	1	1	0	900	900	0
12/17/2024 18:51	61001	DONV_T1	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
12/17/2024 18:51	14601	SWHI_T1	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
12/17/2024 18:51	46102	MACI_T1	0	1	1	0	0.1	0.1	0.64	0.64	0	0	0	0	0	0
12/17/2024 18:51	51401	LYKE_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
12/17/2024 18:51	21705	SUBU_T1	1	2	1	5.8	5.8	0	0	0	0	0	0	0	0	0
12/17/2024 18:51	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:52	43801	SWIL_T1	2	2	0	3.35	3.1	-0.25	0	0	0	0	0	0	0	0
12/17/2024 18:52	64801	MONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 18:52	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:52	47202	FAXO_T2	0	0	0	0	0	0	-2.27	-2.3	0	0	0	0	0	0
12/17/2024 18:52	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:52	53903	HALI_T2	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
12/17/2024 18:52	45501	DERR_T2	0	0	0	0	0	0	0.61	0.63	2	2	0	1800	1800	0
12/17/2024 18:52	57201	ROSS_T1	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
12/17/2024 18:52	67401	WAKE_T2	0	0	0	0	0	0	-2.4	-2.4	0	0	0	0	0	0
12/17/2024 18:52	50701	SMEC_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
12/17/2024 18:52	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:52	60201	ATGL_T2	0	0	0	0	0	0	-0.01	-0.08	0	0	0	0	0	0
12/17/2024 18:52	55503	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:52	43802	SWIL_T1	0	0	0	0	0	0	-0.16	-0.18	1	1	0	600	600	0
12/17/2024 18:52	53901	HALI_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
12/17/2024 18:52	63501	HEID_TBK1-2	0	0	0	0	0	0	0.44	0.36	0	0	0	0	0	0
12/17/2024 18:52	55508	HERS_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
12/17/2024 18:52	64802	MONE_T2	3	1	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 18:52	47101	MARL_T1	2	1	-1	0.9	1.4	0.5	-0.71	-0.66	1	1	0	600	600	0
12/17/2024 18:52	54206	PENN_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
12/17/2024 18:52	44301	BEAV_T2	2	1	-1	1	0	-1	-0.09	0.18	1	1	0	600	600	0
12/17/2024 18:52	53902	HALI_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
12/17/2024 18:52	47203	FAXO_T2	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/17/2024 18:53	14203	EALL_T1	0	0	0	0	0	0	-0.57	-0.56	1	1	0	1200	1200	0
12/17/2024 18:53	55002	NEWP_T1	4	4	0	0.53	0.8	0.27	-0.24	-0.23	0	0	0	0	0	0
12/17/2024 18:53	53902	HALI_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
12/17/2024 18:53	40703	FFLD_T1	3	3	0	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
12/17/2024 18:53	10801	CHHI_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	900	900	0
12/17/2024 18:53	44801	EDAN_T2	0	2	2	0	0.25	0.25	-0.8	-0.9	0	0	0	0	0	0
12/17/2024 18:53	40101	HUNT_T2	232	335	103	0.58	0.63	0.05	-1.41	-1.39	0	0	0	0	0	0
12/17/2024 18:53	53901	HALI_T2	1	2	1	0.2	0.2	0	-1.45	-1.43	0	0	0	0	0	0
12/17/2024 18:53	60902	DONG_T2	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
12/17/2024 18:53	54501	ENOL_T2	0	0	0	0	0	0	0.15	0.1	0	0	0	0	0	0
12/17/2024 18:53	57702	PAXT_T1	0	0	0	0	0	0	0.01	0.05	0	0	0	0	0	0
12/17/2024 18:53	40701	FFLD_T1	25	27	2	0.41	0.3	-0.11	0	0	0	0	0	0	0	0
12/17/2024 18:53	53903	HALI_T2	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
12/17/2024 18:53	45501	DERR_T2	0	0	0	0	0	0	0.61	0.63	2	2	0	1800	1800	0
12/17/2024 18:53	48901	FOSP_T2	0	0	0	0	0	0	0.32	0.27	0	0	0	0	0	0
12/17/2024 18:53	40702	FFLD_T1	6	5	-1	0.27	0.32	0.05	-0.81	-0.65	1	1	0	1200	1200	0
12/17/2024 18:53	57203	ROSS_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
12/17/2024 18:53	14204	EALL_T2	0	0	0	0	0	0	0.87	0.91	0	0	0	0	0	0
12/17/2024 18:53	54601	SUMM_T2	0	0	0	0	0	0	-3.76	-3.73	4	4	0	4200	4200	0
12/17/2024 18:53	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:53	42902	MIDD_T2	0	1	1	0	0	0	-0.51	-0.53	0	0	0	0	0	0
12/17/2024 18:53	10705	CATA_T2	0	0	0	0	0	0	0.08	0.02	0	0	0	0	0	0
12/17/2024 18:53	44505	HAMI_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
12/17/2024 18:53	44502	HAMI_T2	1	1	0	2.3	2.1	-0.2	0	0	0	0	0	0	0	0
12/17/2024 18:53	65003	NEFF_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
12/17/2024 18:53	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:53	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 18:53	62102	ELAN_T1	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
12/17/2024 18:53	14602	SWHI_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
12/17/2024 18:53	14601	SWHI_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
12/17/2024 18:53	29201	APPE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:53	15104	UPHA_T2	0	0	0	0	0	0	0.46	0.41	0	0	0	0	0	0
12/17/2024 18:54	43105	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 18:54	57104	SPHI_T2	2	2	0	4.3	0.7	-3.6	-1.24	-1.24	0	0	0	0	0	0
12/17/2024 18:54	48901	FOSP_T2	0	0	0	0	0	0	0.64	0.54	0	0	0	0	0	0
12/17/2024 18:54	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:54	55508	HERS_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
12/17/2024 18:54	42902	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:54	64802	MONE_T2	3	1	-2	0.1	0	-0.1	-0.09	-0.06	0	0	0	0	0	0
12/17/2024 18:54	44301	BEAV_T2	2	1	-1	1	0	-1	0	0	0	0	0	0	0	0
12/17/2024 18:54	52402	GRPA_T2	5	5	0	0.48	0.63	0.15	-0.76	-0.81	0	0	0	0	0	0
12/17/2024 18:54	57205	ROSS_T1	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
12/17/2024 18:54	52404	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/17/2024 18:54	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
12/17/2024 18:54	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
12/17/2024 18:54	43103	SMIL_T2	4	4	0	0.45	0.28	-0.17	0	0	0	0	0	0	0	0
12/17/2024 18:54	66505	SMAN_T2	3	3	0	0.83	0.87	0.04	0	0	0	0	0	0	0	0
12/17/2024 18:54	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:54	43102	SMIL_T2	4	4	0	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
12/17/2024 18:54	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 18:54	20603	GRWO_T2	31	31	0	0.38	0.35	-0.03	0.43	0.4	0	0	0	0	0	0
12/17/2024 18:54	50701	SMEC_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
12/17/2024 18:54	57101	SPHI_T2	5	6	1	0.18	0.27	0.09	0	0	0	0	0	0	0	0
12/17/2024 18:54	45802	HEGI_T2	48	48	0	1.69	2.44	0.75	0	0	0	0	0	0	0	0
12/17/2024 18:54	64801	MONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 18:54	54602	SUMM_T2	0	0	0	0	0	0	-1.63	-1.63	1	1	0	600	600	0
12/17/2024 18:54	57106	SPHI_T2	3	3	0	1.17	1.3	0.13	0	0	0	0	0	0	0	0
12/17/2024 18:54	43101	SMIL_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
12/17/2024 18:54	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
12/17/2024 18:54	63803	HEMP_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
12/17/2024 18:54	40101	HUNT_T2	232	335	103	0.58	0.63	0.05	-1.41	-1.39	0	0	0	0	0	0
12/17/2024 18:54	67402	WAKE_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
12/17/2024 18:55	62105	ELAN_T1	0	0	0	0	0	0	0.4	0.44	0	0	0	0	0	0
12/17/2024 18:55	43302	WATS_T2	4	1	-3	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
12/17/2024 18:55	52404	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/17/2024 18:55	42902	MIDD_T2	0	1	1	0	0	0	-0.51	-0.53	0	0	0	0	0	0
12/17/2024 18:55	48303	ORWI_T2	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
12/17/2024 18:55	14602	SWHI_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
12/17/2024 18:55	66505	SMAN_T2	3	3	0	0.83	0.87	0.04	0	0	0	0	0	0	0	0
12/17/2024 18:55	11301	EMMA_T1	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
12/17/2024 18:55	52402	GRPA_T2	5	5	0	0.48	0.63	0.15	0	0	0	0	0	0	0	0
12/17/2024 18:55	13302	ORVI_T2	0	0	0	0	0	0	1.38	1.47	0	0	0	0	0	0
12/17/2024 18:55	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
12/17/2024 18:55	65502	MOJO_T2	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
12/17/2024 18:55	44201	POIN_T1	0	0	0	0	0	0	-2.06	-1.95	2	2	0	2100	2100	0
12/17/2024 18:55	64101	REFR_T1	0	0	0	0	0	0	-0.9	-0.85	0	0	0	0	0	0
12/17/2024 18:55	43802	SWIL_T1	0	0	0	0	0	0	-0.16	-0.18	1	1	0	600	600	0
12/17/2024 18:55	44505	HAMI_T2	1	0	-1	0.7	0	-0.7	0.51	0.52	0	0	0	0	0	0
12/17/2024 18:55	10705	CATA_T2	0	0	0	0	0	0	0.08	0.02	0	0	0	0	0	0
12/17/2024 18:55	14603	SWHI_T1	0	0	0	0	0	0	-0.99	-0.98	1	1	0	600	600	0
12/17/2024 18:55	63501	HEID_TBK1-2	0	0	0	0	0	0	0.87	0.72	0	0	0	0	0	0
12/17/2024 18:55	43801	SWIL_T1	2	2	0	3.35	3.1	-0.25	0	0	0	0	0	0	0	0
12/17/2024 18:55	63801	HEMP_T1	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
12/17/2024 18:55	52401	GRPA_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
12/17/2024 18:55	48302	ORWI_T2	2	2	0	1.7	1.45	-0.25	0	0	0	0	0	0	0	0
12/17/2024 18:55	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
12/17/2024 18:55	50701	SMEC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:55	44502	HAMI_T2	1	1	0	2.3	2.1	-0.2	0	0	0	0	0	0	0	0
12/17/2024 18:55	40602	PIGR_T1	2	2	0	5.65	0	-5.65	0	0	0	0	0	0	0	0
12/17/2024 18:55	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 18:55	66504	SMAN_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
12/17/2024 18:55	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:55	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:55	61503	EPET_T1	0	0	0	0	0	0	-0.44	-0.38	0	0	0	0	0	0
12/17/2024 18:56	43801	SWIL_T1	2	2	0	3.35	3.1	-0.25	0	0	0	0	0	0	0	0
12/17/2024 18:56	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:56	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:56	57201	ROSS_T1	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
12/17/2024 18:56	51603	DUKE_T1	0	0	0	0	0	0	-0.25	-0.31	0	0	0	0	0	0
12/17/2024 18:56	52001	LING_T1	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
12/17/2024 18:56	43102	SMIL_T2	4	4	0	0.18	0.13	-0.05	-0.34	-0.35	0	0	0	0	0	0
12/17/2024 18:56	50625	CCTY_T2	3	3	0	7.97	7.83	-0.14	0	0	0	0	0	0	0	0
12/17/2024 18:56	50624	CCTY_T2	2	2	0	7.15	7	-0.15	0	0	0	0	0	0	0	0
12/17/2024 18:56	40101	HUNT_T2	232	335	103	0.58	0.63	0.05	-1.41	-1.39	0	0	0	0	0	0
12/17/2024 18:56	42902	MIDD_T2	0	1	1	0	0	0	-0.51	-0.53	0	0	0	0	0	0
12/17/2024 18:56	55508	HERS_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
12/17/2024 18:56	24204	PROV_T3	2	2	0	3	3.05	0.05	0	0	0	0	0	0	0	0
12/17/2024 18:56	43103	SMIL_T2	4	4	0	0.45	0.28	-0.17	0	0	0	0	0	0	0	0
12/17/2024 18:56	58402	MORO_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/17/2024 18:56	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
12/17/2024 18:56	24201	PROV_T3	1	1	0	6.4	6.5	0.1	-1.46	-1.46	1	1	0	1200	1200	0
12/17/2024 18:56	43105	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 18:56	44201	POIN_T1	0	0	0	0	0	0	-2.06	-1.95	2	2	0	2100	2100	0
12/17/2024 18:56	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 18:56	64904	MILL_T1	0	0	0	0	0	0	0.44	-0.5	0	0	0	0	0	0
12/17/2024 18:56	54501	ENOL_T2	0	0	0	0	0	0	0.15	0.1	0	0	0	0	0	0
12/17/2024 18:56	66505	SMAN_T2	3	3	0	0.83	0.87	0.04	0	0	0	0	0	0	0	0
12/17/2024 18:56	66504	SMAN_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
12/17/2024 18:56	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:56	64901	MILL_T1	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
12/17/2024 18:56	61304	EARL_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	600	600	0
12/17/2024 18:56	58401	MORO_T1	0	0	0	0	0	0	-1.09	-1.15	1	1	0	600	600	0
12/17/2024 18:56	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
12/17/2024 18:56	54504	ENOL_T2	0	0	0	0	0	0	-1.08	-1.08	1	1	0	600	600	0
12/17/2024 18:56	41301	FISH_T1	0	1	1	0	2.8	2.8	-0.32	-0.33	0	0	0	0	0	0
12/17/2024 18:56	43802	SWIL_T1	0	0	0	0	0	0	-0.16	-0.18	1	1	0	600	600	0
12/17/2024 18:56	55002	NEWP_T1	4	4	0	0.53	0.8	0.27	-0.24	-0.23	0	0	0	0	0	0
12/17/2024 18:56	64702	LITI_T2	0	1	1	0	0	0	-0.73	-0.82	0	0	0	0	0	0
12/17/2024 18:56	50623	CCTY_T2	6	6	0	7.62	7.12	-0.5	0	0	0	0	0	0	0	0
12/17/2024 18:57	43105	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 18:57	45001	LIME_2	23	12	-11	0.25	0.17	-0.08	0	0	0	0	0	0	0	0
12/17/2024 18:57	46506	LOHA_T1	4	4	0	2.83	2.58	-0.25	0	0	0	0	0	0	0	0
12/17/2024 18:57	65003	NEFF_T2	1	4	3	0.1	0.1	0	-1.84	-1.68	2	2	0	1800	1800	0
12/17/2024 18:57	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:57	55002	NEWP_T1	4	4	0	0.53	0.8	0.27	-0.24	-0.23	0	0	0	0	0	0
12/17/2024 18:57	58401	MORO_T1	0	0	0	0	0	0	-1.09	-1.15	1	1	0	600	600	0
12/17/2024 18:57	43103	SMIL_T2	4	4	0	0.45	0.28	-0.17	0	0	0	0	0	0	0	0
12/17/2024 18:57	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
12/17/2024 18:57	44201	POIN_T1	0	0	0	0	0	0	-2.06	-1.95	2	2	0	2100	2100	0
12/17/2024 18:57	56803	BENV_T1	5	5	0	0.18	0.52	0.34	-0.1	-0.09	0	0	0	0	0	0
12/17/2024 18:57	58402	MORO_T1	1	0	-1	0.9	0	-0.9	-1.25	-0.34	4	3	-1	2850	1950	-900
12/17/2024 18:57	45003	LIME_2	1	1	0	2.5	2.2	-0.3	0.28	0.25	0	0	0	0	0	0
12/17/2024 18:57	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:57	44701	MUNC_T2	0	0	0	0	0	0	-1.37	-1.34	0	0	0	0	0	0
12/17/2024 18:57	57201	ROSS_T1	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
12/17/2024 18:57	56801	BENV_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/17/2024 18:57	45002	LIME_2	1	1	0	4.9	5.1	0.2	0	0	0	0	0	0	0	0
12/17/2024 18:57	43102	SMIL_T2	4	4	0	0.18	0.13	-0.05	-0.34	-0.35	0	0	0	0	0	0
12/17/2024 18:57	67605	WARW_T1	0	0	0	0	0	0	-0.79	-0.82	0	0	0	0	0	0
12/17/2024 18:57	58202	NEWV_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
12/17/2024 18:57	44703	MUNC_T2	3	3	0	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
12/17/2024 18:57	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/17/2024 18:57	59101	WALK_T2	0	0	0	0	0	0	0.99	0.9	1	1	0	600	600	0
12/17/2024 18:57	46501	LOHA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/17/2024 18:57	44702	MUNC_T2	13	6	-7	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
12/17/2024 18:58	47202	FAXO_T2	0	0	0	0	0	0	-2.27	-2.3	0	0	0	0	0	0
12/17/2024 18:58	65502	MOJO_T2	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
12/17/2024 18:58	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:58	42501	ALTA_T2	0	0	0	0	0	0	1.29	1.35	0	0	0	0	0	0
12/17/2024 18:58	20601	GRWO_T2	0	0	0	0	0	0	-0.12	-0.16	0	0	0	0	0	0
12/17/2024 18:58	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 18:58	47203	FAXO_T2	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/17/2024 18:58	53903	HALI_T2	2	2	0	0.8	1	0.2	-0.13	-0.13	0	0	0	0	0	0
12/17/2024 18:58	20603	GRWO_T2	31	31	0	0.38	0.35	-0.03	0	0	0	0	0	0	0	0
12/17/2024 18:58	53901	HALI_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
12/17/2024 18:58	53902	HALI_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
12/17/2024 18:58	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:58	57205	ROSS_T1	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
12/17/2024 18:58	42902	MIDD_T2	0	1	1	0	0	0	-0.51	-0.53	0	0	0	0	0	0
12/17/2024 18:58	59101	WALK_T2	0	0	0	0	0	0	0.99	0.9	1	1	0	600	600	0
12/17/2024 18:59	64901	MILL_T1	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
12/17/2024 18:59	43801	SWIL_T1	2	2	0	3.35	3.1	-0.25	0	0	0	0	0	0	0	0
12/17/2024 18:59	66505	SMAN_T2	3	3	0	0.83	0.87	0.04	0	0	0	0	0	0	0	0
12/17/2024 18:59	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 18:59	64904	MILL_T1	0	0	0	0	0	0	0.44	-0.5	0	0	0	0	0	0
12/17/2024 18:59	43105	SMIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/17/2024 18:59	62102	ELAN_T1	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
12/17/2024 18:59	54601	SUMM_T2	0	0	0	0	0	0	-1.88	-1.87	2	2	0	2100	2100	0
12/17/2024 18:59	47101	MARL_T1	2	1	-1	0.9	1.4	0.5	-0.71	-0.66	1	1	0	600	600	0
12/17/2024 18:59	43103	SMIL_T2	4	4	0	0.45	0.28	-0.17	-0.93	-0.91	0	0	0	0	0	0
12/17/2024 18:59	43102	SMIL_T2	4	4	0	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
12/17/2024 18:59	43802	SWIL_T1	0	0	0	0	0	0	-0.16	-0.18	1	1	0	600	600	0
12/17/2024 18:59	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
12/17/2024 18:59	57205	ROSS_T1	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
12/17/2024 18:59	43302	WATS_T2	4	1	-3	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
12/17/2024 18:59	55103	WERT_T1	1	1	0	3.9	3.9	0	0	0	0	0	0	0	0	0
12/17/2024 18:59	66504	SMAN_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
12/17/2024 18:59	55105	WERT_T1	0	0	0	0	0	0	-0.64	-0.65	1	1	0	900	900	0
12/17/2024 19:00	67106	SPRI_T2	0	0	0	0	0	0	-1.28	-1.29	1	1	0	900	900	0
12/17/2024 19:00	45001	LIME_2	12	2	-10	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
12/17/2024 19:00	54602	SUMM_T2	0	0	0	0	0	0	-1.63	-1.63	1	1	0	600	600	0
12/17/2024 19:00	45003	LIME_2	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
12/17/2024 19:00	61304	EARL_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	600	600	0
12/17/2024 19:00	55103	WERT_T1	1	1	0	4.9	3.9	-1	0	0	0	0	0	0	0	0
12/17/2024 19:00	66504	SMAN_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
12/17/2024 19:00	66505	SMAN_T2	2	3	1	0.5	0.87	0.37	0	0	0	0	0	0	0	0
12/17/2024 19:00	45002	LIME_2	1	1	0	5.1	4.8	-0.3	-0.46	-0.41	0	0	0	0	0	0
12/17/2024 19:00	55105	WERT_T1	0	0	0	0	0	0	-0.64	-0.65	1	1	0	900	900	0
12/17/2024 19:00	50701	SMEC_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
12/17/2024 19:01	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 19:01	63801	HEMP_T1	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
12/17/2024 19:01	57203	ROSS_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
12/17/2024 19:01	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 19:01	63804	HEMP_T1	1	1	0	6	6.2	0.2	0	0	0	0	0	0	0	0
12/17/2024 19:02	53903	HALI_T2	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
12/17/2024 19:02	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/17/2024 19:02	44201	POIN_T1	0	0	0	0	0	0	-2.06	-1.95	2	2	0	2100	2100	0
12/17/2024 19:02	59101	WALK_T2	0	0	0	0	0	0	0.99	0.9	1	1	0	600	600	0
12/17/2024 19:02	58102	NEKI_T1	1	1	0	0.6	0.7	0.1	0.14	0.11	0	0	0	0	0	0
12/17/2024 19:02	53901	HALI_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
12/17/2024 19:02	53902	HALI_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
12/17/2024 19:03	52404	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/17/2024 19:03	52402	GRPA_T2	3	5	2	0.63	0.8	0.17	0	0	0	0	0	0	0	0
12/17/2024 19:03	46506	LOHA_T1	4	4	0	2.58	2.3	-0.28	0	0	0	0	0	0	0	0
12/17/2024 19:03	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
12/17/2024 19:03	44902	SCOT_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 19:03	51306	WIND_T2	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
12/17/2024 19:03	46501	LOHA_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/17/2024 19:03	52403	GRPA_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
12/17/2024 19:03	45001	LIME_2	12	2	-10	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
12/17/2024 19:03	66505	SMAN_T2	2	3	1	0.5	0.87	0.37	0	0	0	0	0	0	0	0
12/17/2024 19:03	66903	SHIL_T2	0	0	0	0	0	0	-1.06	-1.07	0	0	0	0	0	0
12/17/2024 19:03	45003	LIME_2	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
12/17/2024 19:03	54601	SUMM_T2	0	0	0	0	0	0	-1.88	-1.87	2	2	0	2100	2100	0
12/17/2024 19:03	44901	SCOT_T2	0	0	0	0	0	0	-0.04	-0.09	0	0	0	0	0	0
12/17/2024 19:03	45002	LIME_2	1	1	0	5.1	4.8	-0.3	-0.46	-0.41	0	0	0	0	0	0
12/17/2024 19:03	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
12/17/2024 19:04	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 19:04	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
12/17/2024 19:04	67402	WAKE_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
12/17/2024 19:04	52402	GRPA_T2	3	5	2	0.63	0.8	0.17	-0.76	-0.81	0	0	0	0	0	0
12/17/2024 19:04	52404	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/17/2024 19:05	53903	HALI_T2	2	2	0	0.9	1	0.1	-0.13	-0.13	0	0	0	0	0	0
12/17/2024 19:05	53902	HALI_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
12/17/2024 19:05	53901	HALI_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
12/17/2024 19:05	55002	NEWP_T1	4	4	0	0.63	0.8	0.17	0	0	0	0	0	0	0	0
12/17/2024 19:05	52403	GRPA_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
12/17/2024 19:05	66505	SMAN_T2	2	3	1	0.5	0.87	0.37	0	0	0	0	0	0	0	0
12/17/2024 19:05	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	-0.9	-0.93	1	1	0	600	600	0
12/17/2024 19:05	66502	SMAN_T2	0	0	0	0	0	0	-0.32	-0.41	0	0	0	0	0	0
12/17/2024 19:05	52404	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/17/2024 19:05	52402	GRPA_T2	3	5	2	0.63	0.8	0.17	0	0	0	0	0	0	0	0
12/17/2024 19:06	57203	ROSS_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
12/17/2024 19:11	13303	ORVI_T1	0	0	0	0	0	0	0.79	0.81	0	0	0	0	0	0
12/17/2024 19:16	57203	ROSS_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
12/17/2024 19:20	63804	HEMP_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
12/17/2024 19:20	63803	HEMP_T1	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
12/17/2024 19:22	13503	MCMI_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
12/17/2024 19:33	65003	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/17/2024 19:33	65004	NEFF_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
12/17/2024 19:34	63804	HEMP_T1	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
12/17/2024 19:34	63802	HEMP_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
12/17/2024 19:39	66502	SMAN_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
12/17/2024 19:39	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 19:39	65207	PRIN_T4	2	3	1	0.8	1.1	0.3	0	0	1	1	0	1200	1200	0
12/17/2024 19:39	66505	SMAN_T2	3	3	0	0.47	1.1	0.63	0	0	0	0	0	0	0	0
12/17/2024 20:02	64902	MILL_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
12/17/2024 20:13	13905	SEID_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
12/17/2024 20:44	13501	MCMI_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
12/17/2024 20:44	66505	SMAN_T2	3	3	0	1.2	1.63	0.43	0	0	0	0	0	0	0	0
12/17/2024 20:44	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2024 22:09	61304	EARL_T1	0	0	0	0	0	0	-1.1	-1.11	1	1	0	600	600	0
12/17/2024 22:24	66502	SMAN_T2	0	0	0	0	0	0	-0.25	-0.14	0	0	0	0	0	0
12/17/2024 22:24	66505	SMAN_T2	3	3	0	0.9	1.53	0.63	0	0	0	0	0	0	0	0
12/18/2024 7:49	13704	SCHN_T2	0	0	0	0	0	0	-0.08	-0.71	0	0	0	0	0	0
12/18/2024 7:54	60301	TWVA_T2	0	0	0	0	0	0	-2.65	-2.77	3	3	0	2700	2700	0
12/18/2024 8:00	62607	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/18/2024 8:00	62604	ENGL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/18/2024 8:00	62606	ENGL_T1	74	86	12	0.29	0.24	-0.05	0	0	0	0	0	0	0	0
12/18/2024 8:00	62605	ENGL_T1	1	3	2	0.1	0.13	0.03	-1.19	-1.18	0	0	0	0	0	0
12/18/2024 8:00	26704	HEML_T2	0	0	0	0	0	0	-0.81	-0.78	1	1	0	1200	1200	0
12/18/2024 8:00	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/18/2024 8:07	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 8:20	52502	PROG_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
12/18/2024 8:21	52502	PROG_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
12/18/2024 8:23	52503	PROG_T2	0	0	0	0	0	0	0.61	0.67	0	0	0	0	0	0
12/18/2024 8:24	46204	DANV_T2	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/18/2024 8:24	46203	DANV_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
12/18/2024 8:27	53501	EVIL_T2	1	2	1	0.3	0.35	0.05	-0.37	-0.42	0	0	0	0	0	0
12/18/2024 8:27	53502	EVIL_T2	1	1	0	3.6	2.1	-1.5	0	0	0	0	0	0	0	0
12/18/2024 8:29	45501	DERR_T2	2	0	-2	0.4	0	-0.4	0.46	0.37	2	2	0	1800	1800	0
12/18/2024 8:30	51904	COPA_T1	2	1	-1	0.2	0.2	0	-1.02	-1.03	2	2	0	1200	1200	0
12/18/2024 8:32	23401	HONE_T2	1	0	-1	1.4	0	-1.4	0.13	0.14	0	0	0	0	0	0
12/18/2024 8:34	43201	MVIL_T2	0	0	0	0	0	0	-1.11	-1.13	0	0	0	0	0	0
12/18/2024 8:34	43202	MVIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/18/2024 8:36	55002	NEWP_T1	6	6	0	0.7	0.95	0.25	-0.18	-0.16	0	0	0	0	0	0
12/18/2024 8:37	15104	UPHA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/18/2024 8:37	15103	UPHA_T2	0	1	1	0	0.3	0.3	-0.86	-0.85	0	0	0	0	0	0
12/18/2024 8:41	45501	DERR_T2	0	0	0	0	0	0	0.37	0.32	2	2	0	1800	1800	0
12/18/2024 8:42	40801	EXCH_T2	0	0	0	0	0	0	-0.51	-0.53	1	1	0	1200	1200	0
12/18/2024 8:42	40802	EXCH_T2	0	0	0	0	0	0	-0.24	0.23	0	0	0	0	0	0
12/18/2024 8:43	40801	EXCH_T2	0	0	0	0	0	0	-1.02	-1.06	2	2	0	2400	2400	0
12/18/2024 8:43	63305	GREE_T1	0	7	7	0	0.16	0.16	-1.33	-1.37	0	0	0	0	0	0
12/18/2024 8:43	40802	EXCH_T2	0	0	0	0	0	0	-0.24	0.23	0	0	0	0	0	0
12/18/2024 8:44	40801	EXCH_T2	0	0	0	0	0	0	-0.51	-0.53	1	1	0	1200	1200	0
12/18/2024 8:44	63305	GREE_T1	0	7	7	0	0.16	0.16	-1.33	-1.37	0	0	0	0	0	0
12/18/2024 8:46	64802	MONE_T2	28	40	12	0.19	0.22	0.03	0	0	0	0	0	0	0	0
12/18/2024 8:46	64801	MONE_T2	14	28	14	0.16	0.21	0.05	0	0	0	0	0	0	0	0
12/18/2024 8:47	64802	MONE_T2	28	40	12	0.19	0.22	0.03	0.16	0.19	0	0	0	0	0	0
12/18/2024 8:47	64801	MONE_T2	14	28	14	0.16	0.21	0.05	0	0	0	0	0	0	0	0
12/18/2024 8:47	59003	MIFF_T1	1	1	0	0.1	0.2	0.1	-1.18	-1.05	0	0	0	0	0	0
12/18/2024 8:50	43202	MVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/18/2024 8:50	43201	MVIL_T2	0	0	0	0	0	0	-1.13	-1.21	0	0	0	0	0	0
12/18/2024 8:50	55001	NEWP_T1	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
12/18/2024 8:50	55002	NEWP_T1	6	6	0	0.78	0.73	-0.05	0	0	0	0	0	0	0	0
12/18/2024 8:50	56501	ROCK_T2	6	7	1	0.73	0.38	-0.35	-0.95	-0.97	0	0	0	0	0	0
12/18/2024 8:51	43202	MVIL_T2	1	0	-1	0.2	0	-0.2	-0.53	-0.53	0	0	0	0	0	0
12/18/2024 8:52	41902	REED_T1	1	13	12	0.3	0.66	0.36	1.17	1.19	0	0	0	0	0	0
12/18/2024 8:53	56501	ROCK_T2	6	7	1	0.73	0.38	-0.35	-1.94	0.59	0	0	0	0	0	0
12/18/2024 8:53	67401	WAKE_T2	0	4	4	0	0.13	0.13	-0.8	-0.82	0	0	0	0	0	0
12/18/2024 8:54	49804	UNIV_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
12/18/2024 8:54	49803	UNIV_T1	1	1	0	6.2	5.6	-0.6	0	0	0	0	0	0	0	0
12/18/2024 8:54	60903	DONG_T2	0	1	1	0	0.2	0.2	-0.03	0.01	1	1	0	600	600	0
12/18/2024 8:55	61802	EELI_T2	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
12/18/2024 9:00	52402	GRPA_T2	10	5	-5	0.33	0.38	0.05	0	0	0	0	0	0	0	0
12/18/2024 9:00	41801	GOCI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
12/18/2024 9:00	55001	NEWP_T1	0	0	0	0	0	0	-0.28	-0.25	0	0	0	0	0	0
12/18/2024 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
12/18/2024 9:00	55002	NEWP_T1	5	6	1	0.8	0.47	-0.33	0	0	0	0	0	0	0	0
12/18/2024 9:00	52401	GRPA_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
12/18/2024 9:00	61302	EARL_T1	0	0	0	0	0	0	0.77	0.56	2	2	0	1800	1800	0
12/18/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
12/18/2024 9:00	52403	GRPA_T2	5	7	2	0.22	0.28	0.06	-0.07	-0.04	0	0	0	0	0	0
12/18/2024 9:00	63501	HEID_TBK1-2	0	0	0	0	0	0	0.05	0.05	2	2	0	1800	1800	0
12/18/2024 9:00	54601	SUMM_T2	6	8	2	0.3	0.58	0.28	-1.78	-1.8	2	2	0	2100	2100	0
12/18/2024 9:04	54201	PENN_T1	9	55	46	0.88	0.36	-0.52	0.03	0.01	0	0	0	0	0	0
12/18/2024 9:04	54203	PENN_T1	18	116	98	1.21	0.34	-0.87	0	0	0	0	0	0	0	0
12/18/2024 9:04	54205	PENN_T1	0	41	41	0	0.11	0.11	0	0	0	0	0	0	0	0
12/18/2024 9:06	41801	GOCI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
12/18/2024 9:07	14201	EALL_T1	0	0	0	0	0	0	0.51	0.54	0	0	0	0	0	0
12/18/2024 9:07	67503	WEWI_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
12/18/2024 9:07	44901	SCOT_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
12/18/2024 9:07	67502	WEWI_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/18/2024 9:08	54201	PENN_T1	9	55	46	0.88	0.36	-0.52	0.01	0.03	0	0	0	0	0	0
12/18/2024 9:08	54203	PENN_T1	18	116	98	1.21	0.34	-0.87	0	0	0	0	0	0	0	0
12/18/2024 9:08	54205	PENN_T1	0	41	41	0	0.11	0.11	0	0	0	0	0	0	0	0
12/18/2024 9:09	59101	WALK_T2	0	0	0	0	0	0	1.19	1.16	2	2	0	1200	1200	0
12/18/2024 9:09	16302	ALPA_T2	0	0	0	0	0	0	0.71	0.82	0	0	0	0	0	0
12/18/2024 9:11	45501	DERR_T2	0	1	1	0	0	0	0.32	0.39	2	2	0	1800	1800	0
12/18/2024 9:12	41301	FISH_T1	1	3	2	2.8	1.6	-1.2	-0.28	-0.27	0	0	0	0	0	0
12/18/2024 9:12	45501	DERR_T2	0	1	1	0	0	0	0.32	0.39	2	2	0	1800	1800	0
12/18/2024 9:13	26702	HEML_T2	0	1	1	0	4	4	0	0	0	0	0	0	0	0
12/18/2024 9:13	26704	HEML_T2	0	0	0	0	0	0	-0.82	-0.81	1	1	0	1200	1200	0
12/18/2024 9:14	44801	EDAN_T2	0	2	2	0	0	0	-0.39	-0.35	0	0	0	0	0	0
12/18/2024 9:15	14801	TREI_T2	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
12/18/2024 9:15	29301	DAPP_T1	1	1	0	8.8	8.5	-0.3	0	0	0	0	0	0	0	0
12/18/2024 9:15	44201	POIN_T1	32	8	-24	0.14	0.1	-0.04	-1.67	-1.11	2	2	0	2100	2100	0
12/18/2024 9:15	29302	DAPP_T1	2	3	1	0.15	0.1	-0.05	0	0	1	1	0	600	600	0
12/18/2024 9:16	44201	POIN_T1	32	8	-24	0.14	0.1	-0.04	-1.67	-1.11	2	2	0	2100	2100	0
12/18/2024 9:17	44201	POIN_T1	32	8	-24	0.14	0.1	-0.04	-3.34	-2.23	4	4	0	4200	4200	0
12/18/2024 9:17	61001	DONV_T1	0	0	0	0	0	0	-0.03	0.02	0	0	0	0	0	0
12/18/2024 9:18	41902	REED_T1	10	1	-9	0.62	0	-0.62	1.19	1.12	0	0	0	0	0	0
12/18/2024 9:18	44201	POIN_T1	32	8	-24	0.14	0.1	-0.04	-3.34	-2.23	4	4	0	4200	4200	0
12/18/2024 9:19	51204	MTON_T2	0	1	1	0	0.1	0.1	-0.73	-0.77	1	1	0	900	900	0
12/18/2024 9:19	51202	MTON_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 9:20	52402	GRPA_T2	5	3	-2	0.38	0.4	0.02	-0.63	-0.66	0	0	0	0	0	0
12/18/2024 9:20	52401	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/18/2024 9:20	52403	GRPA_T2	4	4	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
12/18/2024 9:21	43202	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 9:21	60902	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 9:21	43201	MVIL_T2	0	0	0	0	0	0	-1.15	-1.19	0	0	0	0	0	0
12/18/2024 9:21	46302	ROHR_T1	3	3	0	0.53	0.7	0.17	0.19	0.18	0	0	0	0	0	0
12/18/2024 9:21	20601	GRWO_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/18/2024 9:21	54602	SUMM_T2	0	1	1	0	0.1	0.1	-2.77	-2.83	1	1	0	600	600	0
12/18/2024 9:21	54601	SUMM_T2	6	10	4	0.6	0.71	0.11	0	0	0	0	0	0	0	0
12/18/2024 9:21	60903	DONG_T2	1	1	0	0.2	0.1	-0.1	0.01	0	1	1	0	600	600	0
12/18/2024 9:21	20603	GRWO_T2	0	0	0	0	0	0	-0.62	-0.65	1	1	0	900	900	0
12/18/2024 9:21	54603	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 9:21	46301	ROHR_T1	2	1	-1	2.8	6	3.2	0	0	0	0	0	0	0	0
12/18/2024 9:22	54603	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 9:22	51202	MTON_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 9:22	51204	MTON_T2	0	1	1	0	0.1	0.1	-0.77	-0.75	1	1	0	900	900	0
12/18/2024 9:22	54602	SUMM_T2	0	1	1	0	0.1	0.1	-2.83	-2.72	1	1	0	600	600	0
12/18/2024 9:22	54601	SUMM_T2	6	10	4	0.6	0.71	0.11	0	0	0	0	0	0	0	0
12/18/2024 9:23	54603	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 9:23	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 9:23	54601	SUMM_T2	6	10	4	0.6	0.71	0.11	0	0	0	0	0	0	0	0
12/18/2024 9:24	54601	SUMM_T2	6	10	4	0.6	0.71	0.11	0	0	0	0	0	0	0	0
12/18/2024 9:24	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 9:24	40201	BEGA_T2	6	4	-2	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
12/18/2024 9:24	54603	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 9:25	21705	SUBU_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
12/18/2024 9:25	21702	SUBU_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 9:25	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 9:25	40201	BEGA_T2	6	4	-2	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
12/18/2024 9:25	21701	SUBU_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
12/18/2024 9:26	40201	BEGA_T2	6	4	-2	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
12/18/2024 9:27	23403	HONE_T1	0	0	0	0	0	0	-0.72	-0.68	0	0	0	0	0	0
12/18/2024 9:31	65503	MOJO_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
12/18/2024 9:31	65502	MOJO_T2	13	179	166	0.1	0.12	0.02	0	0	0	0	0	0	0	0
12/18/2024 9:32	65503	MOJO_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
12/18/2024 9:32	65502	MOJO_T2	13	179	166	0.1	0.12	0.02	-1.35	-1.49	1	1	0	900	900	0
12/18/2024 9:33	65503	MOJO_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
12/18/2024 9:33	65502	MOJO_T2	13	179	166	0.1	0.12	0.02	0	0	0	0	0	0	0	0
12/18/2024 9:34	65502	MOJO_T2	13	179	166	0.1	0.12	0.02	-2.7	-2.98	2	2	0	1800	1800	0
12/18/2024 9:35	65502	MOJO_T2	13	179	166	0.1	0.12	0.02	0	0	0	0	0	0	0	0
12/18/2024 9:35	65205	PRIN_T1	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
12/18/2024 9:35	14603	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/18/2024 9:35	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 9:35	65202	PRIN_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
12/18/2024 9:37	24202	PROV_T4	0	0	0	0	0	0	-0.65	-0.67	1	1	0	1200	1200	0
12/18/2024 9:39	29401	BELT_T1	3	26	23	0.13	0.15	0.02	0	0	1	1	0	900	900	0
12/18/2024 9:39	14601	SWHI_T1	0	0	0	0	0	0	-1.67	-1.63	0	0	0	0	0	0
12/18/2024 9:39	14603	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/18/2024 9:39	29402	BELT_T1	1	2	1	7.1	3.95	-3.15	0	0	0	0	0	0	0	0
12/18/2024 9:40	29402	BELT_T1	1	2	1	7.1	3.95	-3.15	0	0	0	0	0	0	0	0
12/18/2024 9:40	61001	DONV_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
12/18/2024 9:40	29401	BELT_T1	3	26	23	0.13	0.15	0.02	0	0	0	0	0	0	0	0
12/18/2024 9:43	41602	CLEV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/18/2024 9:44	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.02	0.05	2	2	0	1800	1800	0
12/18/2024 9:44	54505	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
12/18/2024 9:44	54501	ENOL_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
12/18/2024 9:44	40801	EXCH_T2	0	0	0	0	0	0	-0.5	-0.43	1	1	0	1200	1200	0
12/18/2024 9:44	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
12/18/2024 9:46	54502	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
12/18/2024 9:46	54505	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
12/18/2024 9:46	54501	ENOL_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
12/18/2024 9:47	29302	DAPP_T1	2	4	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/18/2024 9:47	29301	DAPP_T1	1	1	0	8	6.7	-1.3	0	0	1	1	0	600	600	0
12/18/2024 9:50	52502	PROG_T2	0	0	0	0	0	0	0.93	0.91	0	0	0	0	0	0
12/18/2024 9:51	57205	ROSS_T1	0	0	0	0	0	0	0.14	0.2	0	0	0	0	0	0
12/18/2024 9:54	43802	SWIL_T1	0	0	0	0	0	0	-0.13	-0.13	1	1	0	600	600	0
12/18/2024 9:54	46004	BERW_T2	2	2	0	1.5	0.6	-0.9	0	0	0	0	0	0	0	0
12/18/2024 9:54	43801	SWIL_T1	1	1	0	4.7	4.7	0	0	0	0	0	0	0	0	0
12/18/2024 9:54	46002	BERW_T2	0	0	0	0	0	0	-1.2	-1.19	1	1	0	900	900	0
12/18/2024 9:54	52502	PROG_T2	0	0	0	0	0	0	0.45	0.4	0	0	0	0	0	0
12/18/2024 9:55	14801	TREI_T2	0	1	1	0	0.1	0.1	0.49	0.49	0	0	0	0	0	0
12/18/2024 9:55	10805	CHHI_T2	1	1	0	7.8	7.5	-0.3	-0.71	-0.69	1	1	0	600	600	0
12/18/2024 9:55	10705	CATA_T2	0	0	0	0	0	0	-0.9	-0.94	1	1	0	900	900	0
12/18/2024 9:55	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 9:57	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 9:57	16101	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 9:57	10705	CATA_T2	0	0	0	0	0	0	-2.7	-2.81	3	3	0	2700	2700	0
12/18/2024 9:57	16102	BING_T2	0	1	1	0	0.2	0.2	0.01	0.02	0	0	0	0	0	0
12/18/2024 9:58	44801	EDAN_T2	1	0	-1	0.1	0	-0.1	-0.38	-0.39	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/18/2024 9:59	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/18/2024 9:59	16101	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 10:00	40703	FFLD_T1	4	4	0	0.58	0.73	0.15	0	0	0	0	0	0	0	0
12/18/2024 10:00	40101	HUNT_T2	44	109	65	0.39	0.54	0.15	-1.27	-1.3	0	0	0	0	0	0
12/18/2024 10:00	63501	HEID_TBK1-2	0	19	19	0	0.15	0.15	0.02	-0.04	1	1	0	900	900	0
12/18/2024 10:00	40701	FFLD_T1	33	48	15	0.6	0.59	-0.01	0	0	0	0	0	0	0	0
12/18/2024 10:00	40702	FFLD_T1	63	106	43	0.2	0.28	0.08	0	0	0	0	0	0	0	0
12/18/2024 10:01	40702	FFLD_T1	63	106	43	0.2	0.28	0.08	-0.8	-0.87	1	1	0	1200	1200	0
12/18/2024 10:01	40701	FFLD_T1	33	48	15	0.6	0.59	-0.01	0	0	0	0	0	0	0	0
12/18/2024 10:01	64902	MILL_T2	0	0	0	0	0	0	-0.66	-0.69	1	1	0	900	900	0
12/18/2024 10:01	17401	POHI_T1	0	0	0	0	0	0	-2.29	-2.21	0	0	0	0	0	0
12/18/2024 10:01	40703	FFLD_T1	4	4	0	0.58	0.73	0.15	0	0	0	0	0	0	0	0
12/18/2024 10:02	54505	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
12/18/2024 10:02	54506	ENOL_T2	0	0	0	0	0	0	0.37	0.33	1	1	0	600	600	0
12/18/2024 10:02	54502	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/18/2024 10:04	65802	RTWN_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
12/18/2024 10:05	64903	MILL_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
12/18/2024 10:06	42802	SELI_T1	0	0	0	0	0	0	-2.4	-2.38	1	1	0	900	900	0
12/18/2024 10:06	41902	REED_T1	0	0	0	0	0	0	1.11	1.14	0	0	0	0	0	0
12/18/2024 10:07	65802	RTWN_T2	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
12/18/2024 10:07	15104	UPHA_T2	1	2	1	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
12/18/2024 10:07	15103	UPHA_T2	0	1	1	0	0.3	0.3	0.43	0.42	0	0	0	0	0	0
12/18/2024 10:08	52502	PROG_T2	0	1	1	0	0	0	0.4	0.35	0	0	0	0	0	0
12/18/2024 10:11	54505	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
12/18/2024 10:11	54502	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/18/2024 10:11	54503	ENOL_T2	0	0	0	0	0	0	-0.4	-0.41	1	1	0	600	600	0
12/18/2024 10:12	25603	ARRO_T1	398	438	40	2.82	2.68	-0.14	0	0	0	0	0	0	0	0
12/18/2024 10:12	25601	ARRO_T1	195	196	1	2.08	2.71	0.63	0	0	1	1	0	900	900	0
12/18/2024 10:12	25602	ARRO_T1	405	411	6	2.06	2.76	0.7	0	0	0	0	0	0	0	0
12/18/2024 10:13	54502	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/18/2024 10:13	54505	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
12/18/2024 10:13	10801	CHIH_T1	0	3	3	0	0.2	0.2	-0.87	-0.85	1	1	0	900	900	0
12/18/2024 10:13	54506	ENOL_T2	0	0	0	0	0	0	0.33	0.41	1	1	0	600	600	0
12/18/2024 10:14	17802	GILB_T1	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
12/18/2024 10:16	40703	FFLD_T1	4	4	0	0.7	0.73	0.03	0	0	0	0	0	0	0	0
12/18/2024 10:16	40701	FFLD_T1	38	54	16	0.67	0.58	-0.09	0	0	0	0	0	0	0	0
12/18/2024 10:16	40702	FFLD_T1	102	113	11	0.27	0.37	0.1	0	0	0	0	0	0	0	0
12/18/2024 10:17	16203	POFA_T2	5	11	6	0.1	0.15	0.05	0	0	0	0	0	0	0	0
12/18/2024 10:17	42902	MIDD_T2	0	0	0	0	0	0	-0.06	0.02	0	0	0	0	0	0
12/18/2024 10:17	16201	POFA_T2	35	67	32	0.13	0.17	0.04	0	0	0	0	0	0	0	0
12/18/2024 10:17	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 10:18	16203	POFA_T2	5	11	6	0.1	0.15	0.05	0	0	0	0	0	0	0	0
12/18/2024 10:18	16201	POFA_T2	35	67	32	0.13	0.17	0.04	0	0	0	0	0	0	0	0
12/18/2024 10:18	42903	MIDD_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 10:18	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 10:19	58401	MORO_T1	0	0	0	0	0	0	-1	-1.04	1	1	0	600	600	0
12/18/2024 10:19	58402	MORO_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/18/2024 10:19	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 10:20	66502	SMAN_T2	14	10	-4	0.24	0.21	-0.03	0.75	0.8	0	0	0	0	0	0
12/18/2024 10:20	54502	ENOL_T2	1	1	0	0.5	0.1	-0.4	-2.08	-2.07	1	1	0	600	600	0
12/18/2024 10:20	66505	SMAN_T2	3	0	-3	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/18/2024 10:20	66504	SMAN_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
12/18/2024 10:20	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 10:20	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
12/18/2024 10:21	66502	SMAN_T2	14	10	-4	0.24	0.21	-0.03	0.4	0.27	0	0	0	0	0	0
12/18/2024 10:21	58402	MORO_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/18/2024 10:21	66504	SMAN_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
12/18/2024 10:21	66505	SMAN_T2	3	0	-3	0.5	0	-0.5	-0.18	0.03	2	2	0	1800	1800	0
12/18/2024 10:21	58401	MORO_T1	0	0	0	0	0	0	-1	-1.04	1	1	0	600	600	0
12/18/2024 10:22	66502	SMAN_T2	14	10	-4	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
12/18/2024 10:22	66504	SMAN_T2	2	2	0	0.55	0.7	0.15	-2.09	-2.07	0	0	0	0	0	0
12/18/2024 10:22	65903	SMAR_T2	0	0	0	0	0	0	-0.86	-0.84	3	3	0	2100	2100	0
12/18/2024 10:22	60201	ATGL_T2	2	10	8	0.1	0.2	0.1	-0.07	0.01	0	0	0	0	0	0
12/18/2024 10:22	66505	SMAN_T2	3	0	-3	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/18/2024 10:22	65901	SAKR_T2	1	1	0	9.1	9.3	0.2	0	0	0	0	0	0	0	0
12/18/2024 10:23	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 10:23	66504	SMAN_T2	2	2	0	0.55	0.7	0.15	-0.42	-0.41	0	0	0	0	0	0
12/18/2024 10:23	66502	SMAN_T2	14	10	-4	0.24	0.21	-0.03	0.4	0.27	0	0	0	0	0	0
12/18/2024 10:23	14802	TREI_T2	0	1	1	0	0.1	0.1	0.39	0.42	0	0	0	0	0	0
12/18/2024 10:23	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/18/2024 10:23	66505	SMAN_T2	3	0	-3	0.5	0	-0.5	-0.09	0.02	1	1	0	900	900	0
12/18/2024 10:24	43301	WATS_T2	0	0	0	0	0	0	-0.24	-0.18	0	0	0	0	0	0
12/18/2024 10:24	66504	SMAN_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
12/18/2024 10:24	66505	SMAN_T2	3	0	-3	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/18/2024 10:24	66502	SMAN_T2	14	10	-4	0.24	0.21	-0.03	1.19	0.81	0	0	0	0	0	0
12/18/2024 10:26	60201	ATGL_T2	2	10	8	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/18/2024 10:27	10703	CATA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/18/2024 10:27	10705	CATA_T2	0	0	0	0	0	0	-2.73	-2.81	3	3	0	2700	2700	0
12/18/2024 10:27	44801	EDAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
12/18/2024 10:27	14204	EALL_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
12/18/2024 10:27	10801	CHIH_T1	3	2	-1	0.2	0.35	0.15	-0.85	-0.77	1	1	0	900	900	0
12/18/2024 10:27	10702	CATA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
12/18/2024 10:28	28805	LAKE_T1	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
12/18/2024 10:29	10702	CATA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
12/18/2024 10:29	10703	CATA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/18/2024 10:29	10705	CATA_T2	0	0	0	0	0	0	-0.91	-0.94	1	1	0	900	900	0
12/18/2024 10:31	28805	LAKE_T1	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
12/18/2024 10:32	41801	GOCI_T2	3	7	4	0.47	0.21	-0.26	0	0	0	0	0	0	0	0
12/18/2024 10:32	41802	GOCI_T2	0	14	14	0	0.12	0.12	0	0	0	0	0	0	0	0
12/18/2024 10:33	46301	ROHR_T1	1	1	0	6.3	4.4	-1.9	0	0	0	0	0	0	0	0
12/18/2024 10:33	20201	JERM_T2	0	0	0	0	0	0	0.98	1.37	1	1	0	1200	1200	0
12/18/2024 10:33	46302	ROHR_T1	3	3	0	0.23	0.75	0.52	0.18	0.14	0	0	0	0	0	0
12/18/2024 10:35	16203	POFA_T2	4	10	6	0.13	0.14	0.01	0	0	0	0	0	0	0	0
12/18/2024 10:35	13101	NHAM_T1	0	0	0	0	0	0	-2.92	-2.94	2	2	0	2400	2400	0
12/18/2024 10:35	16201	POFA_T2	35	65	30	0.14	0.17	0.03	0	0	0	0	0	0	0	0
12/18/2024 10:35	21901	HUMB_T1	0	0	0	0	0	0	0	-2.1	0	0	0	0	0	0
12/18/2024 10:35	43201	MVIL_T2	0	0	0	0	0	0	-1.16	-1.18	0	0	0	0	0	0
12/18/2024 10:37	43801	SWIL_T1	1	2	1	4.7	2.4	-2.3	0	0	0	0	0	0	0	0
12/18/2024 10:37	46302	ROHR_T1	3	3	0	0.23	0.75	0.52	0.14	0.17	0	0	0	0	0	0
12/18/2024 10:37	40101	HUNT_T2	93	8	-85	0.55	0.9	0.35	-0.93	-0.8	0	0	0	0	0	0
12/18/2024 10:37	46301	ROHR_T1	1	1	0	6.3	4.4	-1.9	0	0	0	0	0	0	0	0
12/18/2024 10:37	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 10:42	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 10:42	29402	BELT_T1	1	3	2	7.3	3.85	-3.45	0	0	0	0	0	0	0	0
12/18/2024 10:46	52402	GRPA_T2	3	4	1	0.33	0.43	0.1	0	0	0	0	0	0	0	0
12/18/2024 10:46	52401	GRPA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/18/2024 10:46	52403	GRPA_T2	1	2	1	0.5	0.45	-0.05	-0.05	-0.07	0	0	0	0	0	0
12/18/2024 10:47	64801	MONE_T2	19	20	1	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/18/2024 10:47	64802	MONE_T2	57	93	36	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
12/18/2024 10:48	29401	BELT_T1	1	0	-1	0.1	0	-0.1	0	0	3	3	0	2700	2700	0
12/18/2024 10:48	24201	PROV_T3	1	1	0	6.3	6.1	-0.2	-1.46	-1.46	1	1	0	1200	1200	0
12/18/2024 10:48	64801	MONE_T2	19	20	1	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/18/2024 10:48	24204	PROV_T3	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
12/18/2024 10:48	64802	MONE_T2	57	93	36	0.24	0.21	-0.03	0.33	0.32	0	0	0	0	0	0
12/18/2024 10:48	29402	BELT_T1	2	1	-1	3.85	7.3	3.45	0	0	0	0	0	0	0	0
12/18/2024 10:50	54201	PENN_T1	30	9	-21	0.41	0.81	0.4	0	0	0	0	0	0	0	0
12/18/2024 10:50	54203	PENN_T1	39	23	-16	0.7	1.02	0.32	0.05	0	0	0	0	0	0	0
12/18/2024 10:50	43202	MVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 10:50	43201	MVIL_T2	0	0	0	0	0	0	-1.18	-1.25	0	0	0	0	0	0
12/18/2024 10:50	54205	PENN_T1	32	0	-32	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/18/2024 10:52	42501	ALTA_T2	0	0	0	0	0	0	-0.02	0.01	1	1	0	600	600	0
12/18/2024 10:52	54203	PENN_T1	39	23	-16	0.7	1.02	0.32	0	0	0	0	0	0	0	0
12/18/2024 10:52	54205	PENN_T1	32	0	-32	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/18/2024 10:52	54201	PENN_T1	30	9	-21	0.41	0.81	0.4	0	0	0	0	0	0	0	0
12/18/2024 10:55	10101	ALLE_T3	2	2	0	5.2	3.75	-1.45	0	0	0	0	0	0	0	0
12/18/2024 10:55	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 10:55	10109	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 10:55	10801	CHIH_T1	1	3	2	0.6	0.37	-0.23	-0.86	-0.86	1	1	0	900	900	0
12/18/2024 10:56	25603	ARRO_T1	506	460	-46	3.02	2.97	-0.05	0	0	0	0	0	0	0	0
12/18/2024 10:56	25601	ARRO_T1	193	193	0	1.15	1.16	0.01	0	0	0	0	0	0	0	0
12/18/2024 10:56	25602	ARRO_T1	400	397	-3	0.91	0.88	-0.03	0	0	0	0	0	0	0	0
12/18/2024 10:56	62104	ELAN_T1	0	0	0	0	0	0	1.03	1.1	1	1	0	1200	1200	0
12/18/2024 10:56	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 10:57	14201	EALL_T1	0	0	0	0	0	0	0.6	0.55	0	0	0	0	0	0
12/18/2024 10:57	45303	WBER_T2	1	2	1	10	10	0	0	0	0	0	0	0	0	0
12/18/2024 10:57	42501	ALTA_T2	0	0	0	0	0	0	-0.06	0.02	3	3	0	1800	1800	0
12/18/2024 10:57	45302	WBER_T2	0	0	0	0	0	0	0.84	0.75	0	0	0	0	0	0
12/18/2024 10:59	14205	EALL_T2	0	0	0	0	0	0	-0.26	-0.32	0	0	0	0	0	0
12/18/2024 10:59	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 10:59	52401	GRPA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/18/2024 10:59	52402	GRPA_T2	3	4	1	0.33	0.43	0.1	-0.72	-0.72	0	0	0	0	0	0
12/18/2024 10:59	52403	GRPA_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
12/18/2024 11:01	66302	MCGO_T2	1	1	0	1	0.4	-0.6	-1.95	-2.09	2	2	0	1200	1200	0
12/18/2024 11:01	66303	MCGO_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/18/2024 11:02	64801	MONE_T2	20	7	-13	0.2	0.14	-0.06	0.28	0.29	0	0	0	0	0	0
12/18/2024 11:02	64802	MONE_T2	92	34	-58	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
12/18/2024 11:03	41902	REED_T1	0	0	0	0	0	0	1.11	1.11	0	0	0	0	0	0
12/18/2024 11:04	55002	NEWP_T1	6	7	1	1	0.61	-0.39	-0.23	-0.21	0	0	0	0	0	0
12/18/2024 11:05	47104	MARL_T1	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
12/18/2024 11:05	21901	HUMB_T1	0	0	0	0	0	0	-2.1	-2.09	0	0	0	0	0	0
12/18/2024 11:05	47101	MARL_T1	5	2	-3	0.28	0	-0.28	0	0	0	0	0	0	0	0
12/18/2024 11:06	43202	MVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 11:06	43201	MVIL_T2	0	0	0	0	0	0	-1.12	-1.21	0	0	0	0	0	0
12/18/2024 11:07	14801	TREI_T2	0	1	1	0	0.5	0.5	0.42	0.4	0	0	0	0	0	0
12/18/2024 11:07	14802	TREI_T2	1	2	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
12/18/2024 11:08	60201	ATGL_T2	5	2	-3	0.14	0.25	0.11	-0.05	-0.09	0	0	0	0	0	0
12/18/2024 11:10	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/18/2024 11:10	66503	SMAN_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
12/18/2024 11:10	66501	SMAN_T2	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
12/18/2024 11:10	66502	SMAN_T2	4	3	-1	0.23	0.17	-0.06	0.37	0.35	0	0	0	0	0	0
12/18/2024 11:10	66504	SMAN_T2	2	2	0	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
12/18/2024 11:11	15103	UPHA_T2	1	2	1	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
12/18/2024 11:11	11203	ELHE_T1	0	0	0	0	0	0	0.92	0.88	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/18/2024 11:11	15104	UPHA_T2	1	0	-1	0.1	0	-0.1	0.76	0.76	0	0	0	0	0	0
12/18/2024 11:13	46002	BERW_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/18/2024 11:13	46004	BERW_T2	1	1	0	0.1	0	-0.1	0.04	-0.18	0	0	0	0	0	0
12/18/2024 11:13	45802	HEGI_T2	10	0	-10	0.23	0	-0.23	0.48	0.32	1	1	0	900	900	0
12/18/2024 11:14	45802	HEGI_T2	10	0	-10	0.23	0	-0.23	0.48	0.32	1	1	0	900	900	0
12/18/2024 11:14	63501	HEID_TBK1-2	2	6	4	0.15	0.28	0.13	0.07	0	1	1	0	900	900	0
12/18/2024 11:15	52403	GRPA_T2	2	1	-1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
12/18/2024 11:15	52401	GRPA_T2	1	1	0	0.1	0.3	0.2	-0.59	-0.54	0	0	0	0	0	0
12/18/2024 11:15	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 11:15	52402	GRPA_T2	3	6	3	0.27	0.3	0.03	0	0	0	0	0	0	0	0
12/18/2024 11:17	43201	MVIL_T2	0	0	0	0	0	-1.12	-1.21	0	0	0	0	0	0	0
12/18/2024 11:17	43202	MVIL_T2	2	0	-2	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/18/2024 11:17	63501	HEID_TBK1-2	4	5	1	0.2	0.3	0.1	0.14	0.01	2	2	0	1800	1800	0
12/18/2024 11:17	64904	MILL_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
12/18/2024 11:23	60701	BREC_T1	0	0	0	0	0	0	-0.21	-0.25	2	2	0	1200	1200	0
12/18/2024 11:24	60701	BREC_T1	0	0	0	0	0	0	-0.85	-1.01	8	8	0	4800	4800	0
12/18/2024 11:25	42501	ALTA_T2	0	0	0	0	0	0	-0.03	0	1	1	0	600	600	0
12/18/2024 11:25	61502	EPET_T1	0	0	0	0	0	0	-1.31	-1.22	0	0	0	0	0	0
12/18/2024 11:26	60701	BREC_T1	0	0	0	0	0	0	-0.21	-0.25	2	2	0	1200	1200	0
12/18/2024 11:27	60701	BREC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 11:27	64305	LINC_T1	2	2	0	0.6	0.6	0	-0.17	-0.25	0	0	0	0	0	0
12/18/2024 11:28	60701	BREC_T1	0	0	0	0	0	0	-0.21	-0.25	2	2	0	1200	1200	0
12/18/2024 11:32	43201	MVIL_T2	0	0	0	0	0	0	-1.21	-1.21	0	0	0	0	0	0
12/18/2024 11:36	55002	NEWP_T1	7	7	0	0.54	0.57	0.03	0	0	0	0	0	0	0	0
12/18/2024 11:36	55001	NEWP_T1	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
12/18/2024 11:36	57101	SPHI_T2	6	6	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
12/18/2024 11:36	57103	SPHI_T2	0	0	0	0	0	0	-1.82	-1.84	2	2	0	1200	1200	0
12/18/2024 11:36	58202	NEWV_T1	0	0	0	0	0	0	-0.12	-0.06	0	0	0	0	0	0
12/18/2024 11:36	57104	SPHI_T2	2	3	1	2.3	1	-1.3	0	0	0	0	0	0	0	0
12/18/2024 11:36	57106	SPHI_T2	3	3	0	2.13	2.17	0.04	0	0	0	0	0	0	0	0
12/18/2024 11:37	17002	RIRO_T2	1	4	3	0.8	0.55	-0.25	0.53	0.6	0	0	0	0	0	0
12/18/2024 11:37	57101	SPHI_T2	6	6	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
12/18/2024 11:37	43301	WATS_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
12/18/2024 11:37	57104	SPHI_T2	2	3	1	2.3	1	-1.3	-7.27	7.48	4	4	0	3600	3600	0
12/18/2024 11:37	55002	NEWP_T1	7	7	0	0.54	0.57	0.03	0	0	0	0	0	0	0	0
12/18/2024 11:37	57106	SPHI_T2	3	3	0	2.13	2.17	0.04	0	0	0	0	0	0	0	0
12/18/2024 11:37	55001	NEWP_T1	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
12/18/2024 11:38	57101	SPHI_T2	6	6	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
12/18/2024 11:38	57106	SPHI_T2	3	3	0	2.13	2.17	0.04	0	0	0	0	0	0	0	0
12/18/2024 11:38	57104	SPHI_T2	2	3	1	2.3	1	-1.3	-3.64	-3.74	2	2	0	1800	1800	0
12/18/2024 11:39	57104	SPHI_T2	2	3	1	2.3	1	-1.3	0	0	0	0	0	0	0	0
12/18/2024 11:39	57106	SPHI_T2	3	3	0	2.13	2.17	0.04	0	0	0	0	0	0	0	0
12/18/2024 11:39	57101	SPHI_T2	6	6	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
12/18/2024 11:43	11303	EMMA_T1	3	3	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
12/18/2024 11:43	11202	ELHE_T2	0	0	0	0	0	0	0.39	0.39	1	1	0	1200	1200	0
12/18/2024 11:43	11301	EMMA_T1	0	0	0	0	0	0	-0.81	-0.85	0	0	0	0	0	0
12/18/2024 11:47	13302	ORVI_T2	2	1	-1	0.25	1.1	0.85	1.36	1.43	0	0	0	0	0	0
12/18/2024 11:51	46004	BERW_T2	0	1	1	0	0	0	-0.2	-0.22	0	0	0	0	0	0
12/18/2024 11:55	14802	TREI_T2	2	0	-2	0.2	0	-0.2	0.69	0.73	0	0	0	0	0	0
12/18/2024 11:55	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 11:55	14801	TREI_T2	2	1	-1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
12/18/2024 11:59	44505	HAMI_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
12/18/2024 11:59	44502	HAMI_T2	1	1	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
12/18/2024 12:01	44502	HAMI_T2	1	1	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
12/18/2024 12:01	44505	HAMI_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
12/18/2024 12:14	63501	HEID_TBK1-2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
12/18/2024 12:17	48301	ORWI_T1	2	2	0	5.2	5.2	0	0.16	0.13	0	0	0	0	0	0
12/18/2024 12:19	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 12:20	42903	MIDD_T2	2	2	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
12/18/2024 12:21	15103	UPHA_T2	5	1	-4	0.44	0.4	-0.04	0.37	0.39	0	0	0	0	0	0
12/18/2024 12:23	60803	BUCK_T1	13	0	-13	0.31	0	-0.31	0	0	0	0	0	0	0	0
12/18/2024 12:23	60801	BUCK_T1	21	0	-21	0.19	0	-0.19	-0.17	-0.21	0	0	0	0	0	0
12/18/2024 12:23	15101	UPHA_T1	1	1	0	0.4	1.1	0.7	0.67	0.73	0	0	0	0	0	0
12/18/2024 12:23	15102	UPHA_T1	2	1	-1	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
12/18/2024 12:24	64101	REFR_T1	0	0	0	0	0	0	-0.11	-0.07	0	0	0	0	0	0
12/18/2024 12:27	60801	BUCK_T1	21	0	-21	0.19	0	-0.19	-0.17	-0.21	0	0	0	0	0	0
12/18/2024 12:27	60803	BUCK_T1	13	0	-13	0.31	0	-0.31	0	0	0	0	0	0	0	0
12/18/2024 12:33	63602	LETO_T1	0	0	0	0	0	0	-1.08	-0.76	0	0	0	0	0	0
12/18/2024 12:33	48301	ORWI_T1	2	2	0	5.2	5.1	-0.1	0.13	0.12	0	0	0	0	0	0
12/18/2024 12:36	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 12:36	48301	ORWI_T1	2	2	0	5.2	5.1	-0.1	0.12	0.06	0	0	0	0	0	0
12/18/2024 12:37	66902	SHIL_T2	0	0	0	0	0	0	-5.9	-5.87	0	0	0	0	0	0
12/18/2024 12:38	66903	SHIL_T2	0	0	0	0	0	0	-2.04	-2.02	0	0	0	0	0	0
12/18/2024 12:39	66903	SHIL_T2	0	0	0	0	0	0	-1.02	-1.01	0	0	0	0	0	0
12/18/2024 12:43	11301	EMMA_T1	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
12/18/2024 12:43	11303	EMMA_T1	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
12/18/2024 12:46	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	-0.05	-0.1	1	1	0	900	900	0
12/18/2024 12:59	10702	CATA_T2	0	0	0	0	0	0	-0.3	-0.43	0	0	0	0	0	0
12/18/2024 13:01	10705	CATA_T2	0	0	0	0	0	0	-0.98	-0.97	1	1	0	900	900	0
12/18/2024 13:01	10701	CATA_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
12/18/2024 13:01	10702	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/18/2024 13:04	44701	MUNC_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/18/2024 13:04	44702	MUNC_T2	1	21	20	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
12/18/2024 13:04	44703	MUNC_T2	3	3	0	0.5	0.4	-0.1	0.51	0.53	0	0	0	0	0	0
12/18/2024 13:07	57303	MOAL_T2	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
12/18/2024 13:07	57301	MOAL_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
12/18/2024 13:08	44702	MUNC_T2	1	21	20	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
12/18/2024 13:08	44703	MUNC_T2	3	3	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/18/2024 13:08	44701	MUNC_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/18/2024 13:13	16101	BING_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
12/18/2024 13:17	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 13:17	40701	FFLD_T1	622	2	-620	7.12	0.1	-7.02	0	0	0	0	0	0	0	0
12/18/2024 13:20	66903	SHIL_T2	0	0	0	0	0	0	-1.03	-1.03	0	0	0	0	0	0
12/18/2024 13:22	44902	SCOT_T2	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
12/18/2024 13:28	40701	FFLD_T1	622	2	-620	7.12	0.1	-7.02	0	0	0	0	0	0	0	0
12/18/2024 13:32	63804	HEMP_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
12/18/2024 13:32	63803	HEMP_T1	2	3	1	0.1	0.15	0.05	0.09	0.05	0	0	0	0	0	0
12/18/2024 13:38	49804	UNIV_T1	0	0	0	0	0	0	0.41	0.47	0	0	0	0	0	0
12/18/2024 13:38	49803	UNIV_T1	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
12/18/2024 13:39	18001	ZION_T1	2	2	0	9.55	9.65	0.1	0	0	0	0	0	0	0	0
12/18/2024 13:43	18001	ZION_T1	2	2	0	9.55	9.65	0.1	0	0	0	0	0	0	0	0
12/18/2024 13:46	13502	MCMI_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
12/18/2024 13:50	61001	DONV_T1	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
12/18/2024 13:51	67401	WAKE_T2	25	49	24	0.19	0.26	0.07	-1.12	-1.15	0	0	0	0	0	0
12/18/2024 13:53	67401	WAKE_T2	25	49	24	0.19	0.26	0.07	-1.12	-1.15	0	0	0	0	0	0
12/18/2024 13:55	67401	WAKE_T2	25	49	24	0.19	0.26	0.07	0	0	0	0	0	0	0	0
12/18/2024 13:55	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
12/18/2024 13:57	13702	SCHN_T1	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
12/18/2024 13:58	63802	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 13:58	63803	HEMP_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
12/18/2024 13:58	63804	HEMP_T1	1	1	0	5.7	5.8	0.1	0.96	1.06	0	0	0	0	0	0
12/18/2024 14:01	13701	SCHN_T2	0	0	0	0	0	0	-0.13	-0.09	1	1	0	600	600	0
12/18/2024 14:29	10702	CATA_T2	1	1	0	0.2	0.4	0.2	-0.84	-0.83	0	0	0	0	0	0
12/18/2024 14:31	10702	CATA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/18/2024 14:31	10705	CATA_T2	0	0	0	0	0	0	-2.04	-2	2	2	0	1800	1800	0
12/18/2024 14:33	10702	CATA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/18/2024 14:33	10705	CATA_T2	0	0	0	0	0	0	-1.02	-1	1	1	0	900	900	0
12/18/2024 16:41	11203	ELHE_T1	0	0	0	0	0	0	0.85	0.84	0	0	0	0	0	0
12/18/2024 17:35	25602	ARRO_T1	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
12/18/2024 17:45	17002	RIRO_T2	116	203	87	0.21	0.24	0.03	0.32	0.35	0	0	0	0	0	0
12/18/2024 17:47	13702	SCHN_T1	0	0	0	0	0	0	0.78	0.77	0	0	0	0	0	0
12/18/2024 17:48	29402	BELT_T1	1	1	0	7.6	8	0.4	0	0	0	0	0	0	0	0
12/18/2024 17:48	29401	BELT_T1	35	26	-9	0.18	0.16	-0.02	0	0	1	1	0	900	900	0
12/18/2024 17:48	60801	BUCK_T1	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
12/18/2024 17:49	10705	CATA_T2	0	0	0	0	0	0	-0.95	-0.94	1	1	0	900	900	0
12/18/2024 17:49	14801	TREI_T2	1	0	-1	0.3	0	-0.3	0.53	0.54	0	0	0	0	0	0
12/18/2024 17:49	14802	TREI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 17:51	14802	TREI_T2	0	1	1	0	0	0	0.5	0.47	0	0	0	0	0	0
12/18/2024 17:51	14801	TREI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/18/2024 17:52	29401	BELT_T1	35	26	-9	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
12/18/2024 17:52	29402	BELT_T1	1	1	0	7.6	8	0.4	0	0	0	0	0	0	0	0
12/18/2024 17:53	14801	TREI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/18/2024 17:53	14802	TREI_T2	0	1	1	0	0	0	0.47	0.48	0	0	0	0	0	0
12/18/2024 17:53	29402	BELT_T1	1	1	0	7.6	8	0.4	0	0	0	0	0	0	0	0
12/18/2024 17:53	29401	BELT_T1	35	26	-9	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
12/18/2024 17:56	17902	GILB_T1	0	1	1	0	0	0	0.17	0.21	0	0	0	0	0	0
12/18/2024 17:57	10705	CATA_T2	0	0	0	0	0	0	-0.94	-0.92	1	1	0	900	900	0
12/18/2024 17:58	45302	WBER_T2	0	0	0	0	0	0	0.59	0.54	0	0	0	0	0	0
12/18/2024 17:58	26704	HEML_T2	0	0	0	0	0	0	-0.84	-0.86	1	1	0	1200	1200	0
12/18/2024 17:58	13502	MCMI_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
12/18/2024 17:59	47101	MARL_T1	0	18	18	0	0.53	0.53	0	0	0	0	0	0	0	0
12/18/2024 17:59	46302	ROHR_T1	2	3	1	0.65	0.33	-0.32	0.2	0.19	0	0	0	0	0	0
12/18/2024 17:59	47104	MARL_T1	0	1	1	0	0	0	-0.37	-0.37	0	0	0	0	0	0
12/18/2024 17:59	46301	ROHR_T1	1	2	1	3.9	3.6	-0.3	0	0	0	0	0	0	0	0
12/18/2024 17:59	14201	EALL_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
12/18/2024 18:00	65503	MOJO_T2	0	0	0	0	0	0	-0.24	-0.29	0	0	0	0	0	0
12/18/2024 18:00	65502	MOJO_T2	67	235	168	0.11	0.19	0.08	0	0	0	0	0	0	0	0
12/18/2024 18:01	21901	HUMB_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
12/18/2024 18:02	28805	LAKE_T1	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
12/18/2024 18:02	21701	SUBU_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
12/18/2024 18:02	24202	PROV_T4	0	5	5	0	0.14	0.14	-0.78	-0.76	1	1	0	1200	1200	0
12/18/2024 18:02	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:02	21705	SUBU_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
12/18/2024 18:02	46002	BERW_T2	0	0	0	0	0	0	-1.06	-1.02	1	1	0	900	900	0
12/18/2024 18:02	21702	SUBU_T1	1	2	1	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:02	46004	BERW_T2	3	1	-2	0.83	0	-0.83	-0.31	-0.31	0	0	0	0	0	0
12/18/2024 18:02	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:03	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:03	10805	CHHI_T2	1	1	0	7.2	6.9	-0.3	-0.99	-1.01	1	1	0	600	600	0
12/18/2024 18:04	40201	BEGA_T2	4	7	3	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
12/18/2024 18:04	65503	MOJO_T2	0	0	0	0	0	0	-0.24	-0.29	0	0	0	0	0	0
12/18/2024 18:04	65502	MOJO_T2	67	235	168	0.11	0.19	0.08	0	0	0	0	0	0	0	0
12/18/2024 18:05	66505	SMAN_T2	3	3	0	0.97	1	0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/18/2024 18:05	29301	DAPP_T1	1	1	0	9.4	9.4	0	0	0	0	0	0	0	0	0
12/18/2024 18:05	66502	SMAN_T2	0	0	0	0	0	0	0.03	-0.02	0	0	0	0	0	0
12/18/2024 18:05	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/18/2024 18:05	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:05	10705	CATA_T2	0	0	0	0	0	0	-0.94	-0.92	1	1	0	900	900	0
12/18/2024 18:05	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:05	29302	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
12/18/2024 18:06	66505	SMAN_T2	3	3	0	0.97	1	0.03	0	0	0	0	0	0	0	0
12/18/2024 18:06	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:06	63501	HEID_TBK1-2	23	37	14	0.17	0.39	0.22	0	0	0	0	0	0	0	0
12/18/2024 18:07	43302	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:07	13101	NHAM_T1	1	1	0	2.7	3.5	0.8	-3.02	-2.95	2	2	0	2400	2400	0
12/18/2024 18:07	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:07	48301	ORWI_T1	2	2	0	5.3	5.25	-0.05	-0.01	-0.01	0	0	0	0	0	0
12/18/2024 18:07	10205	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:07	10103	ALLE_T3	1	1	0	9.4	0	-9.4	0	0	0	0	0	0	0	0
12/18/2024 18:07	43304	WATS_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
12/18/2024 18:07	43301	WATS_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
12/18/2024 18:07	10101	ALLE_T3	1	3	2	6.3	6.3	0	0	0	0	0	0	0	0	0
12/18/2024 18:07	10105	ALLE_T3	17	25	8	1.12	1.75	0.63	0	0	0	0	0	0	0	0
12/18/2024 18:07	44702	MUNC_T2	4	5	1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
12/18/2024 18:07	18001	ZION_T1	2	2	0	7.55	9.55	2	0	0	0	0	0	0	0	0
12/18/2024 18:07	44703	MUNC_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/18/2024 18:07	14801	TREI_T2	0	0	0	0	0	0	1.07	1.03	0	0	0	0	0	0
12/18/2024 18:08	60701	BREC_T1	0	3	3	0	0.13	0.13	-0.47	-0.46	1	1	0	600	600	0
12/18/2024 18:08	64802	MONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/18/2024 18:08	66505	SMAN_T2	3	3	0	0.97	1	0.03	-0.36	-0.25	1	1	0	900	900	0
12/18/2024 18:09	15103	UPHA_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
12/18/2024 18:09	43801	SWIL_T1	2	2	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
12/18/2024 18:09	16302	ALPA_T2	0	0	0	0	0	0	0.64	0.6	0	0	0	0	0	0
12/18/2024 18:09	14205	EALL_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
12/18/2024 18:09	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:09	43802	SWIL_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:09	10705	CATA_T2	0	0	0	0	0	0	-1.85	-1.86	2	2	0	1800	1800	0
12/18/2024 18:09	15101	UPHA_T1	0	0	0	0	0	0	0.64	0.59	0	0	0	0	0	0
12/18/2024 18:10	55002	NEWP_T1	5	6	1	1.28	0.93	-0.35	0	0	0	0	0	0	0	0
12/18/2024 18:10	66903	SHIL_T2	0	0	0	0	0	0	-1.06	-1.05	0	0	0	0	0	0
12/18/2024 18:10	55001	NEWP_T1	0	0	0	0	0	0	-0.83	-0.9	1	1	0	600	600	0
12/18/2024 18:11	54506	ENOL_T2	0	0	0	0	0	0	0.42	0.48	1	1	0	600	600	0
12/18/2024 18:11	25601	ARRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:11	11301	EMMA_T1	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
12/18/2024 18:11	54505	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/18/2024 18:11	11303	EMMA_T1	1	1	0	3.3	0	-3.3	0	0	0	0	0	0	0	0
12/18/2024 18:11	63501	HEID_TBK1-2	23	37	14	0.17	0.39	0.22	-1.06	-1.03	2	2	0	1800	1800	0
12/18/2024 18:11	10801	CHHI_T1	0	0	0	0	0	0	-1.54	-1.55	2	2	0	1500	1500	0
12/18/2024 18:11	13701	SCHN_T2	0	0	0	0	0	0	-0.08	-0.08	1	1	0	600	600	0
12/18/2024 18:11	10705	CATA_T2	0	0	0	0	0	0	-2.77	-2.79	3	3	0	2700	2700	0
12/18/2024 18:12	54203	PENN_T1	18	19	1	1.25	1.38	0.13	0	0	0	0	0	0	0	0
12/18/2024 18:12	43304	WATS_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
12/18/2024 18:12	54601	SUMM_T2	6	8	2	0.23	0.28	0.05	0	0	0	0	0	0	0	0
12/18/2024 18:12	62104	ELAN_T1	0	0	0	0	0	0	0.89	0.9	1	1	0	1200	1200	0
12/18/2024 18:12	57106	SPHI_T2	3	3	0	1.07	1.2	0.13	0	0	0	0	0	0	0	0
12/18/2024 18:12	57104	SPHI_T2	3	3	0	5.23	3.05	-2.18	-1.89	-1.9	1	1	0	900	900	0
12/18/2024 18:12	43301	WATS_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
12/18/2024 18:12	54201	PENN_T1	7	9	2	0.86	0.76	-0.1	0.06	0.02	0	0	0	0	0	0
12/18/2024 18:12	45501	DERR_T2	2	2	0	1.8	0	-1.8	0.43	0.32	2	2	0	1800	1800	0
12/18/2024 18:12	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:12	54602	SUMM_T2	0	0	0	0	0	0	-2.93	-2.85	1	1	0	600	600	0
12/18/2024 18:12	45502	DERR_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/18/2024 18:12	43302	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:13	54203	PENN_T1	18	19	1	1.25	1.38	0.13	-0.04	-0.06	0	0	0	0	0	0
12/18/2024 18:13	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:13	54201	PENN_T1	7	9	2	0.86	0.76	-0.1	0	0	0	0	0	0	0	0
12/18/2024 18:13	54601	SUMM_T2	6	8	2	0.23	0.28	0.05	0	0	0	0	0	0	0	0
12/18/2024 18:13	66505	SMAN_T2	3	3	0	0.97	1	0.03	-0.36	-0.25	1	1	0	900	900	0
12/18/2024 18:13	10705	CATA_T2	0	0	0	0	0	0	-0.92	-0.93	1	1	0	900	900	0
12/18/2024 18:13	66902	SHIL_T2	0	0	0	0	0	0	-1.84	-1.83	0	0	0	0	0	0
12/18/2024 18:14	45502	DERR_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/18/2024 18:14	45501	DERR_T2	2	2	0	1.8	0	-1.8	0.43	0.32	2	2	0	1800	1800	0
12/18/2024 18:14	48301	ORWI_T1	2	2	0	5.3	5.25	-0.05	-0.01	-0.01	0	0	0	0	0	0
12/18/2024 18:14	60201	ATGL_T2	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
12/18/2024 18:14	63501	HEID_TBK1-2	23	37	14	0.17	0.39	0.22	-0.53	-0.51	1	1	0	900	900	0
12/18/2024 18:14	40702	FFLD_T1	1	0	-1	0.1	0	-0.1	-0.72	-0.79	1	1	0	1200	1200	0
12/18/2024 18:15	42802	SELI_T1	0	0	0	0	0	0	-1.35	-1.4	1	1	0	900	900	0
12/18/2024 18:15	23403	HONE_T1	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
12/18/2024 18:15	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:15	60201	ATGL_T2	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
12/18/2024 18:16	54201	PENN_T1	9	24	15	0.73	0.39	-0.34	0	0	0	0	0	0	0	0
12/18/2024 18:16	64305	LINC_T1	2	1	-1	0.2	0.4	0.2	-0.54	-0.63	0	0	0	0	0	0
12/18/2024 18:16	54203	PENN_T1	19	20	1	1.37	1.3	-0.07	-0.04	-0.06	0	0	0	0	0	0
12/18/2024 18:17	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:17	11202	ELHE_T2	0	0	0	0	0	0	0.38	0.38	1	1	0	1200	1200	0
12/18/2024 18:17	24204	PROV_T3	2	4	2	2.9	1.53	-1.37	0	0	0	0	0	0	0	0
12/18/2024 18:17	24201	PROV_T3	1	2	1	7.1	3.4	-3.7	-1.4	-1.41	1	1	0	1200	1200	0
12/18/2024 18:18	44505	HAMI_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
12/18/2024 18:18	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:18	42501	ALTA_T2	0	0	0	0	0	0	-0.05	0	2	2	0	1200	1200	0
12/18/2024 18:18	44201	POIN_T1	61	97	36	0.2	0.24	0.04	-2.07	-2.17	2	2	0	2100	2100	0
12/18/2024 18:18	44502	HAMI_T2	1	1	0	2.7	2.8	0.1	0	0	0	0	0	0	0	0
12/18/2024 18:19	45802	HEGI_T2	11	49	38	0.3	1.4	1.1	1.47	0.63	0	0	0	0	0	0
12/18/2024 18:19	10801	CHHI_T1	0	0	0	0	0	0	-1.54	-1.55	2	2	0	1500	1500	0
12/18/2024 18:19	64802	MONE_T2	0	3	3	0	0.1	0.1	-0.05	-0.05	0	0	0	0	0	0
12/18/2024 18:19	52502	PROG_T2	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
12/18/2024 18:19	44902	SCOT_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:19	44901	SCOT_T2	0	0	0	0	0	0	0.15	0.09	0	0	0	0	0	0
12/18/2024 18:19	54201	PENN_T1	9	24	15	0.73	0.39	-0.34	0.06	0.02	0	0	0	0	0	0
12/18/2024 18:19	44801	EDAN_T2	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
12/18/2024 18:19	11301	EMMA_T1	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
12/18/2024 18:19	10702	CATA_T2	0	0	0	0	0	0	-1.72	-1.72	0	0	0	0	0	0
12/18/2024 18:19	17401	FOHI_T1	0	0	0	0	0	0	-2.21	-2.16	0	0	0	0	0	0
12/18/2024 18:19	54203	PENN_T1	19	20	1	1.37	1.3	-0.07	0	0	0	0	0	0	0	0
12/18/2024 18:19	10705	CATA_T2	0	0	0	0	0	0	-0.92	-0.93	1	1	0	900	900	0
12/18/2024 18:19	11303	EMMA_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/18/2024 18:19	65503	MOJO_T2	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
12/18/2024 18:19	65502	MOJO_T2	235	0	-235	0.19	0	-0.19	-1.91	-1.03	1	0	-1	900	0	-900
12/18/2024 18:20	66502	SMAN_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
12/18/2024 18:20	66505	SMAN_T2	3	3	0	0.97	0.87	-0.1	0	0	0	0	0	0	0	0
12/18/2024 18:20	66504	SMAN_T2	0	0	0	0	0	0	-1.13	-1.22	0	0	0	0	0	0
12/18/2024 18:21	10801	CHHI_T1	0	0	0	0	0	0	-1.54	-1.55	2	2	0	1500	1500	0
12/18/2024 18:21	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/18/2024 18:21	40201	BEGA_T2	3	8	5	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
12/18/2024 18:21	43201	MVIL_T2	0	0	0	0	0	0	-1.3	-1.31	0	0	0	0	0	0
12/18/2024 18:21	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:21	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:21	64903	MILL_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
12/18/2024 18:21	66505	SMAN_T2	3	3	0	0.97	0.87	-0.1	0	0	0	0	0	0	0	0
12/18/2024 18:21	44902	SCOT_T2	0	1	1	0	0	0	-0.92	-0.95	0	0	0	0	0	0
12/18/2024 18:21	60903	DONG_T2	0	0	0	0	0	0	0.27	0.19	1	1	0	600	600	0
12/18/2024 18:21	29301	DAPP_T1	1	1	0	9.4	9.4	0	0	0	1	1	0	600	600	0
12/18/2024 18:21	10705	CATA_T2	0	0	0	0	0	0	-1.85	-1.86	2	2	0	1800	1800	0
12/18/2024 18:21	52502	PROG_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
12/18/2024 18:21	54506	ENOL_T2	0	0	0	0	0	0	0.42	0.48	1	1	0	600	600	0
12/18/2024 18:21	66903	SHIL_T2	0	0	0	0	0	0	-1.05	-1.04	0	0	0	0	0	0
12/18/2024 18:21	15104	UPHA_T2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
12/18/2024 18:21	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
12/18/2024 18:21	10701	CATA_T2	0	0	0	0	0	0	-0.68	-0.77	0	0	0	0	0	0
12/18/2024 18:22	57301	MOAL_T2	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
12/18/2024 18:22	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:22	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:22	44201	POIN_T1	61	97	36	0.2	0.24	0.04	-2.17	-2.16	2	2	0	2100	2100	0
12/18/2024 18:22	57303	MOAL_T2	1	1	0	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
12/18/2024 18:23	28805	LAKE_T1	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
12/18/2024 18:23	14204	EALL_T2	0	0	0	0	0	0	0.91	0.84	0	0	0	0	0	0
12/18/2024 18:23	65502	MOJO_T2	235	0	-235	0.19	0	-0.19	0	0	0	0	0	0	0	0
12/18/2024 18:23	16101	BING_T2	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
12/18/2024 18:23	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:23	54501	ENOL_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
12/18/2024 18:23	14601	SWHI_T1	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
12/18/2024 18:23	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 18:23	41301	FISH_T1	2	1	-1	1.25	2.6	1.35	-0.36	-0.34	0	0	0	0	0	0
12/18/2024 18:23	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/18/2024 18:23	42501	ALTA_T2	0	0	0	0	0	0	0	-0.04	1	1	0	600	600	0
12/18/2024 18:24	60701	BREC_T1	2	21	19	0.15	0.12	-0.03	-0.46	-0.47	1	1	0	600	600	0
12/18/2024 18:24	43802	SWIL_T1	0	3	3	0	0.43	0.43	-0.15	-0.14	1	1	0	600	600	0
12/18/2024 18:24	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:24	43801	SWIL_T1	2	2	0	3.25	3.15	-0.1	0	0	0	0	0	0	0	0
12/18/2024 18:24	66903	SHIL_T2	0	0	0	0	0	0	-2.1	-2.08	0	0	0	0	0	0
12/18/2024 18:24	46004	BERW_T2	1	1	0	1.1	0	-1.1	-0.3	-0.29	0	0	0	0	0	0
12/18/2024 18:24	67401	WAKE_T2	0	2	2	0	0.1	0.1	-1.18	-1.19	0	0	0	0	0	0
12/18/2024 18:24	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:25	63602	LETO_T1	0	0	0	0	0	0	-0.97	-1.04	0	0	0	0	0	0
12/18/2024 18:25	29402	BELT_T1	1	5	4	8	7.7	-0.3	0	0	0	0	0	0	0	0
12/18/2024 18:25	14601	SWHI_T1	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
12/18/2024 18:25	45802	HEGI_T2	11	49	38	0.3	1.4	1.1	0	0	0	0	0	0	0	0
12/18/2024 18:25	44201	POIN_T1	61	97	36	0.2	0.24	0.04	-2.17	-2.16	2	2	0	2100	2100	0
12/18/2024 18:25	29401	BELT_T1	24	30	6	0.16	0.21	0.05	0	0	3	3	0	2700	2700	0
12/18/2024 18:25	48301	ORWI_T1	2	2	0	5.25	5.1	-0.15	-0.01	0	0	0	0	0	0	0
12/18/2024 18:25	14802	TREI_T2	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
12/18/2024 18:25	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 18:25	67401	WAKE_T2	0	2	2	0	0.1	0.1	-1.18	-1.19	0	0	0	0	0	0
12/18/2024 18:25	40101	HUNT_T2	89	108	19	0.5	0.53	0.03	-1.44	-1.44	0	0	0	0	0	0
12/18/2024 18:26	46301	ROHR_T1	1	1	0	3.6	4	0.4	0	0	0	0	0	0	0	0
12/18/2024 18:26	21901	HUMB_T1	0	0	0	0	0	0	-0.51	-0.62	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/18/2024 18:26	46302	ROHR_T1	0	4	4	0	0.43	0.43	0.18	0.18	0	0	0	0	0	0
12/18/2024 18:26	60701	BREC_T1	2	21	19	0.15	0.12	-0.03	-0.46	-0.47	1	1	0	600	600	0
12/18/2024 18:26	44801	EDAN_T2	1	1	0	0.8	0.3	-0.5	-0.45	-0.44	0	0	0	0	0	0
12/18/2024 18:27	49804	UNIV_T1	0	0	0	0	0	0	0.52	0.43	0	0	0	0	0	0
12/18/2024 18:27	46302	ROHR_T1	0	4	4	0	0.43	0.43	0.18	0.18	0	0	0	0	0	0
12/18/2024 18:27	46301	ROHR_T1	1	1	0	3.6	4	0.4	0	0	0	0	0	0	0	0
12/18/2024 18:27	44801	EDAN_T2	1	1	0	0.8	0.3	-0.5	-0.45	-0.44	0	0	0	0	0	0
12/18/2024 18:27	16102	BING_T2	0	1	1	0	0.1	0.1	-0.15	-0.14	0	0	0	0	0	0
12/18/2024 18:27	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
12/18/2024 18:27	49803	UNIV_T1	1	1	0	6.2	5.8	-0.4	0	0	0	0	0	0	0	0
12/18/2024 18:27	20603	GRWO_T2	0	1	1	0	0.1	0.1	0.44	0.47	0	0	0	0	0	0
12/18/2024 18:27	42903	MIDD_T2	2	0	-2	0.75	0	-0.75	0	0	0	0	0	0	0	0
12/18/2024 18:27	57104	SPHI_T2	3	3	0	3.63	1.65	-1.98	-1.9	-1.88	1	1	0	900	900	0
12/18/2024 18:27	20601	GRWO_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/18/2024 18:27	57106	SPHI_T2	3	3	0	1.2	1.17	-0.03	0	0	0	0	0	0	0	0
12/18/2024 18:27	66505	SMAN_T2	3	3	0	0.97	0.87	-0.1	0	0	0	0	0	0	0	0
12/18/2024 18:27	42902	MIDD_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/18/2024 18:28	44505	HAMI_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
12/18/2024 18:28	60701	BREC_T1	2	21	19	0.15	0.12	-0.03	-0.46	-0.47	1	1	0	600	600	0
12/18/2024 18:28	51204	MTON_T2	0	0	0	0	0	0	-0.47	-0.48	1	1	0	600	600	0
12/18/2024 18:28	66505	SMAN_T2	3	3	0	0.97	0.87	-0.1	0	0	0	0	0	0	0	0
12/18/2024 18:28	42501	ALTA_T2	0	0	0	0	0	0	0	-0.04	1	1	0	600	600	0
12/18/2024 18:28	44502	HAMI_T2	1	1	0	2.7	2.8	0.1	0	0	0	0	0	0	0	0
12/18/2024 18:28	42902	MIDD_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/18/2024 18:28	42903	MIDD_T2	2	0	-2	0.75	0	-0.75	0	0	0	0	0	0	0	0
12/18/2024 18:28	66502	SMAN_T2	0	0	0	0	0	0	-0.01	-0.06	0	0	0	0	0	0
12/18/2024 18:29	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/18/2024 18:29	66502	SMAN_T2	0	0	0	0	0	0	-0.04	-0.18	0	0	0	0	0	0
12/18/2024 18:29	54502	ENOL_T2	0	0	0	0	0	0	-2.03	-2.01	1	1	0	600	600	0
12/18/2024 18:29	44502	HAMI_T2	1	1	0	2.7	2.8	0.1	0	0	0	0	0	0	0	0
12/18/2024 18:29	57106	SPHI_T2	3	3	0	1.2	1.17	-0.03	0	0	0	0	0	0	0	0
12/18/2024 18:29	57104	SPHI_T2	3	3	0	3.63	1.65	-1.98	-1.9	-1.88	1	1	0	900	900	0
12/18/2024 18:29	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:29	65802	RTWN_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
12/18/2024 18:29	66505	SMAN_T2	3	3	0	0.97	0.87	-0.1	0	0	0	0	0	0	0	0
12/18/2024 18:29	63804	HEMP_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
12/18/2024 18:29	15103	UPHA_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
12/18/2024 18:29	63803	HEMP_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
12/18/2024 18:30	67401	WAKE_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
12/18/2024 18:30	52401	GRPA_T2	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
12/18/2024 18:30	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
12/18/2024 18:30	66502	SMAN_T2	0	0	0	0	0	0	-0.01	-0.06	0	0	0	0	0	0
12/18/2024 18:30	66505	SMAN_T2	3	3	0	0.87	0.87	0	-0.25	-0.27	1	1	0	900	900	0
12/18/2024 18:30	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:30	57104	SPHI_T2	2	3	1	3.15	1.8	-1.35	0	0	0	0	0	0	0	0
12/18/2024 18:30	51204	MTON_T2	0	0	0	0	0	0	-0.47	-0.48	1	1	0	600	600	0
12/18/2024 18:30	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-1	-1.02	1	1	0	600	600	0
12/18/2024 18:30	44201	POIN_T1	76	118	42	0.22	0.27	0.05	-2.17	-2.16	2	2	0	2100	2100	0
12/18/2024 18:30	40101	HUNT_T2	107	66	-41	0.6	0.44	-0.16	-1.44	-1.44	0	0	0	0	0	0
12/18/2024 18:30	52402	GRPA_T2	1	3	2	0.2	0.63	0.43	0	0	0	0	0	0	0	0
12/18/2024 18:30	57205	ROSS_T1	0	0	0	0	0	0	0.1	0.15	0	0	0	0	0	0
12/18/2024 18:30	57106	SPHI_T2	3	3	0	1.17	1.27	0.1	0	0	0	0	0	0	0	0
12/18/2024 18:30	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 18:31	44201	POIN_T1	76	118	42	0.22	0.27	0.05	-2.17	-2.16	2	2	0	2100	2100	0
12/18/2024 18:31	40201	BEGA_T2	7	8	1	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
12/18/2024 18:31	42902	MIDD_T2	1	1	0	0.3	0.1	-0.2	-0.44	-0.48	0	0	0	0	0	0
12/18/2024 18:31	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:31	65502	MOJO_T2	0	0	0	0	0	0	-1.03	-1.05	0	0	0	0	0	0
12/18/2024 18:31	57104	SPHI_T2	2	3	1	3.15	1.8	-1.35	-1.9	-1.88	1	1	0	900	900	0
12/18/2024 18:31	57106	SPHI_T2	3	3	0	1.17	1.27	0.1	0	0	0	0	0	0	0	0
12/18/2024 18:31	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
12/18/2024 18:31	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:31	54501	ENOL_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
12/18/2024 18:31	65802	RTWN_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
12/18/2024 18:31	65205	PRIN_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
12/18/2024 18:32	66902	SHIL_T2	0	0	0	0	0	0	-3.66	-3.62	0	0	0	0	0	0
12/18/2024 18:32	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
12/18/2024 18:32	57106	SPHI_T2	3	3	0	1.17	1.27	0.1	0	0	0	0	0	0	0	0
12/18/2024 18:32	57104	SPHI_T2	2	3	1	3.15	1.8	-1.35	0	0	0	0	0	0	0	0
12/18/2024 18:32	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 18:32	59101	WALK_T2	0	0	0	0	0	0	0.97	0.94	1	1	0	600	600	0
12/18/2024 18:32	63501	HEID_TBK1-2	35	36	1	0.35	0.62	0.27	-0.51	-0.58	1	1	0	900	900	0
12/18/2024 18:32	42902	MIDD_T2	1	1	0	0.3	0.1	-0.2	-0.44	-0.48	0	0	0	0	0	0
12/18/2024 18:32	52402	GRPA_T2	1	3	2	0.2	0.63	0.43	-0.64	-0.63	0	0	0	0	0	0
12/18/2024 18:32	66505	SMAN_T2	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0	0
12/18/2024 18:32	40201	BEGA_T2	7	8	1	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
12/18/2024 18:32	66502	SMAN_T2	0	0	0	0	0	0	-0.01	-0.06	0	0	0	0	0	0
12/18/2024 18:32	57103	SPHI_T2	0	0	0	0	0	0	-0.9	-0.9	1	1	0	600	600	0
12/18/2024 18:33	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:33	64101	REFR_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
12/18/2024 18:33	66302	MCGO_T2	0	0	0	0	0	0	-3.05	-3.31	2	2	0	1200	1200	0
12/18/2024 18:33	64902	MILL_T2	0	0	0	0	0	0	-0.38	-0.43	0	0	0	0	0	0
12/18/2024 18:33	63501	HEID_TBK1-2	35	36	1	0.35	0.62	0.27	-1.03	-1.16	2	2	0	1800	1800	0
12/18/2024 18:33	66303	MCGO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/18/2024 18:34	65502	MOJO_T2	0	0	0	0	0	0	-1.03	-1.05	0	0	0	0	0	0
12/18/2024 18:34	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:34	40801	EXCH_T2	0	0	0	0	0	0	-0.5	-0.49	1	1	0	1200	1200	0
12/18/2024 18:35	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
12/18/2024 18:35	54503	ENOL_T2	0	0	0	0	0	0	-0.38	-0.39	1	1	0	600	600	0
12/18/2024 18:35	66505	SMAN_T2	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0	0
12/18/2024 18:35	65903	SMIR_T2	0	0	0	0	0	0	-1.01	-1.01	3	3	0	2100	2100	0
12/18/2024 18:35	44201	POIN_T1	76	118	42	0.22	0.27	0.05	-2.17	-2.16	2	2	0	2100	2100	0
12/18/2024 18:35	66503	SMAN_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
12/18/2024 18:35	55002	NEWP_T1	4	5	1	1.28	1.08	-0.2	-0.23	-0.22	0	0	0	0	0	0
12/18/2024 18:36	61502	EPET_T1	0	0	0	0	0	0	-0.94	-1.17	0	0	0	0	0	0
12/18/2024 18:36	57104	SPHI_T2	2	3	1	3.15	1.8	-1.35	-3.81	-3.77	2	2	0	1800	1800	0
12/18/2024 18:36	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:36	58202	NEWV_T1	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
12/18/2024 18:36	57106	SPHI_T2	3	3	0	1.17	1.27	0.1	0	0	0	0	0	0	0	0
12/18/2024 18:36	54601	SUMM_T2	8	9	1	0.25	0.42	0.17	0	0	0	0	0	0	0	0
12/18/2024 18:37	55001	NEWP_T1	0	0	0	0	0	0	-0.88	-0.25	1	0	-1	600	0	-600
12/18/2024 18:37	55002	NEWP_T1	4	5	1	1.28	1.08	-0.2	0	0	0	0	0	0	0	0
12/18/2024 18:39	52502	PROG_T2	0	0	0	0	0	0	0.41	0.36	0	0	0	0	0	0
12/18/2024 18:40	57103	SPHI_T2	0	0	0	0	0	0	-0.9	-0.94	1	1	0	600	600	0
12/18/2024 18:40	57104	SPHI_T2	2	3	1	3.15	1.8	-1.35	0	0	0	0	0	0	0	0
12/18/2024 18:40	57106	SPHI_T2	3	3	0	1.17	1.27	0.1	0	0	0	0	0	0	0	0
12/18/2024 18:40	64904	MILL_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
12/18/2024 18:40	60701	BREC_T1	3	89	86	0.13	0.12	-0.01	-0.47	-0.48	1	1	0	600	600	0
12/18/2024 18:41	60701	BREC_T1	3	89	86	0.13	0.12	-0.01	-0.47	-0.48	1	1	0	600	600	0
12/18/2024 18:41	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 18:41	52402	GRPA_T2	1	3	2	0.2	0.63	0.43	-0.63	-0.67	0	0	0	0	0	0
12/18/2024 18:41	52403	GRPA_T2	0	0	0	0	0	0	-0.07	-0.02	0	0	0	0	0	0
12/18/2024 18:42	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-1.02	-1.05	1	1	0	600	600	0
12/18/2024 18:42	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2024 18:43	60701	BREC_T1	3	89	86	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
12/18/2024 18:44	64801	MONE_T2	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
12/18/2024 18:44	64802	MONE_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
12/18/2024 18:45	60801	BUCK_T1	0	0	0	0	0	0	-0.19	-0.23	0	0	0	0	0	0
12/18/2024 19:11	20201	JERM_T1	0	0	0	0	0	0	0.48	0.45	1	1	0	1200	1200	0
12/18/2024 19:15	14201	EALL_T1	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
12/18/2024 19:20	61001	DONV_T1	0	0	0	0	0	0	-0.3	-0.13	0	0	0	0	0	0
12/18/2024 19:51	54603	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/18/2024 19:51	54602	SUMM_T2	0	0	0	0	0	0	-2.78	-2.87	1	1	0	600	600	0
12/18/2024 19:51	54601	SUMM_T2	6	8	2	0.4	0.53	0.13	0	0	0	0	0	0	0	0
12/18/2024 20:05	42501	ALTA_T2	0	0	0	0	0	0	-0.02	-0.01	1	1	0	600	600	0
12/19/2024 7:58	26704	HEML_T2	0	0	0	0	0	0	-0.83	-0.83	1	1	0	1200	1200	0
12/19/2024 8:09	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 8:09	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 8:15	63305	GREE_T1	0	1	1	0	0.2	0.2	-1.26	-1.33	0	0	0	0	0	0
12/19/2024 8:18	52001	LING_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
12/19/2024 8:19	13302	ORVI_T2	0	0	0	0	0	0	1.44	1.45	0	0	0	0	0	0
12/19/2024 8:25	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 8:25	16101	BING_T2	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
12/19/2024 8:33	58803	COCO_T1	1	1	0	2.1	2.1	0	-0.1	-0.11	0	0	0	0	0	0
12/19/2024 8:34	57306	MOAL_T2	0	0	0	0	0	0	-9.25	-9.29	3	3	0	3600	3600	0
12/19/2024 8:34	50505	MECH_T1	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
12/19/2024 8:34	50501	MECH_T1	4	4	0	0.9	1.15	0.25	0	0	0	0	0	0	0	0
12/19/2024 8:34	57302	MOAL_T2	0	0	0	0	0	0	-1.55	-1.58	1	1	0	1200	1200	0
12/19/2024 8:34	57303	MOAL_T2	1	1	0	7	7	0	0	0	0	0	0	0	0	0
12/19/2024 8:34	64802	MONE_T2	0	1	1	0	0.2	0.2	0.17	0.18	0	0	0	0	0	0
12/19/2024 8:34	50502	MECH_T1	1	2	1	1.3	1.8	0.5	0	0	0	0	0	0	0	0
12/19/2024 8:43	63501	HEID_TBK1-2	0	0	0	0	0	0	0.04	-0.02	1	1	0	900	900	0
12/19/2024 8:44	40602	PIGR_T1	1	1	0	2.6	2.1	-0.5	0	0	0	0	0	0	0	0
12/19/2024 8:44	40601	PIGR_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 8:46	63801	HEMP_T1	0	0	0	0	0	0	0.34	1	0	0	0	0	0	0
12/19/2024 8:46	63803	HEMP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/19/2024 8:46	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
12/19/2024 8:50	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 8:50	65207	PRIN_T4	4	4	0	1.18	1.6	0.42	0	0	0	0	0	0	0	0
12/19/2024 8:50	64902	MILL_T2	0	0	0	0	0	0	-0.68	-0.69	1	1	0	900	900	0
12/19/2024 8:53	64902	MILL_T2	0	0	0	0	0	0	-0.69	-0.73	1	1	0	900	900	0
12/19/2024 8:59	51905	COPA_T1	0	0	0	0	0	0	-0.81	-0.58	0	0	0	0	0	0
12/19/2024 9:00	23403	HONE_T1	0	4	4	0	0.1	0.1	-0.64	-0.72	0	0	0	0	0	0
12/19/2024 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
12/19/2024 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
12/19/2024 9:00	67502	WEWI_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
12/19/2024 9:00	64801	MONE_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
12/19/2024 9:00	63803	HEMP_T1	1	1	0	0.1	0.3	0.2	0.15	0.15	0	0	0	0	0	0
12/19/2024 9:00	64802	MONE_T2	1	15	14	0.2	0.18	-0.02	0.14	0.21	0	0	0	0	0	0
12/19/2024 9:00	40505	CRES_T1	0	1	1	0	0	0	0.49	0.47	0	0	0	0	0	0
12/19/2024 9:00	51905	COPA_T1	0	0	0	0	0	0	-0.81	-0.58	0	0	0	0	0	0
12/19/2024 9:00	63804	HEMP_T1	1	1	0	6	6.2	0.2	0	0	0	0	0	0	0	0
12/19/2024 9:01	14102	TRUM_T2	3	3	0	0.43	0.25	-0.18	-0.97	0	3	2	-1	2400	1500	-900

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/19/2024 9:04	15603	NSTR_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
12/19/2024 9:04	64702	LITI_T2	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
12/19/2024 9:05	13202	PALM_T2	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
12/19/2024 9:06	64702	LITI_T2	0	0	0	0	0	0	-0.76	-0.83	0	0	0	0	0	0
12/19/2024 9:12	44502	HAMI_T2	1	1	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0
12/19/2024 9:12	44505	HAMI_T2	0	0	0	0	0	0	0.5	0.55	0	0	0	0	0	0
12/19/2024 9:13	63305	GREE_T1	0	1	1	0	0.3	0.3	-2.2	-2.42	0	0	0	0	0	0
12/19/2024 9:14	44502	HAMI_T2	1	1	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0
12/19/2024 9:14	44505	HAMI_T2	0	0	0	0	0	0	0.5	0.55	0	0	0	0	0	0
12/19/2024 9:15	65401	MARI_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
12/19/2024 9:17	64802	MONE_T2	1	40	39	0.1	0.19	0.09	0.21	0.18	0	0	0	0	0	0
12/19/2024 9:17	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 9:17	64801	MONE_T2	1	8	7	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/19/2024 9:18	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 9:18	58401	MORO_T1	0	0	0	0	0	0	-1.86	-1.84	1	1	0	600	600	0
12/19/2024 9:21	58401	MORO_T1	0	0	0	0	0	0	-1.86	-1.84	1	1	0	600	600	0
12/19/2024 9:21	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 9:24	44902	SCOT_T2	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
12/19/2024 9:28	26704	HEML_T2	0	0	0	0	0	0	-0.84	-0.81	1	1	0	1200	1200	0
12/19/2024 9:31	20603	GRWO_T2	0	1	1	0	0.1	0.1	-0.63	-0.59	1	1	0	900	900	0
12/19/2024 9:31	20601	GRWO_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/19/2024 9:33	63601	LETO_T1	2	4	2	0.25	0.43	0.18	0	0	0	0	0	0	0	0
12/19/2024 9:33	63602	LETO_T1	1	1	0	0.2	0.1	-0.1	-0.3	-0.43	0	0	0	0	0	0
12/19/2024 9:36	57201	ROSS_T1	0	0	0	0	0	0	-0.96	-0.87	0	0	0	0	0	0
12/19/2024 9:37	52502	PROG_T2	0	0	0	0	0	0	0.49	0.44	0	0	0	0	0	0
12/19/2024 9:38	52502	PROG_T2	0	0	0	0	0	0	1.47	1.33	0	0	0	0	0	0
12/19/2024 9:39	63602	LETO_T1	1	1	0	0.2	0.1	-0.1	-0.43	-0.37	0	0	0	0	0	0
12/19/2024 9:39	63601	LETO_T1	2	4	2	0.25	0.43	0.18	0	0	0	0	0	0	0	0
12/19/2024 9:41	57205	ROSS_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
12/19/2024 9:41	43302	WATS_T2	0	0	0	0	0	0	-0.07	-0.13	3	3	0	2400	2400	0
12/19/2024 9:46	52004	LING_T2	2	2	0	3.45	3.65	0.2	0.07	0.09	0	0	0	0	0	0
12/19/2024 9:47	52001	LING_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
12/19/2024 9:53	44901	SCOT_T2	0	0	0	0	0	0	0.02	0.12	0	0	0	0	0	0
12/19/2024 9:54	55101	WERT_T1	0	0	0	0	0	0	-1.43	-1.45	2	2	0	1500	1500	0
12/19/2024 9:54	42701	AUGU_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
12/19/2024 9:54	55103	WERT_T1	1	1	0	4.8	3.5	-1.3	0	0	0	0	0	0	0	0
12/19/2024 9:55	42701	AUGU_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
12/19/2024 9:57	14204	EALL_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
12/19/2024 10:00	46504	LOHA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/19/2024 10:00	46506	LOHA_T1	3	3	0	3.73	3.2	-0.53	0	0	0	0	0	0	0	0
12/19/2024 10:00	46501	LOHA_T1	0	1	1	0	0	0	-0.08	-0.1	1	1	0	1200	1200	0
12/19/2024 10:01	55405	SHER_T1	5	9	4	1.04	0.82	-0.22	0	0	0	0	0	0	0	0
12/19/2024 10:02	63501	HEID_TBK1-2	1	0	-1	0.2	0	-0.2	-0.06	-0.06	1	1	0	900	900	0
12/19/2024 10:09	57201	ROSS_T1	0	0	0	0	0	0	-0.51	-0.41	0	0	0	0	0	0
12/19/2024 10:11	16102	BING_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
12/19/2024 10:11	16101	BING_T2	0	0	0	0	0	0	0.45	0.49	0	0	0	0	0	0
12/19/2024 10:12	40702	FFLD_T1	108	77	-31	0.33	0.21	-0.12	0	0	0	0	0	0	0	0
12/19/2024 10:12	40701	FFLD_T1	40	40	0	0.74	0.62	-0.12	0	0	0	0	0	0	0	0
12/19/2024 10:12	40703	FFLD_T1	4	4	0	0.78	0.6	-0.18	0	0	0	0	0	0	0	0
12/19/2024 10:13	46001	BERW_T1	0	0	0	0	0	0	0.87	0.94	0	0	0	0	0	0
12/19/2024 10:14	54502	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/19/2024 10:14	49804	UNIV_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
12/19/2024 10:14	49803	UNIV_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
12/19/2024 10:14	54504	ENOL_T2	0	0	0	0	0	0	-2	-2	2	2	0	1200	1200	0
12/19/2024 10:14	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/19/2024 10:15	60201	ATGL_T2	1	0	-1	0.2	0	-0.2	-0.1	-0.09	0	0	0	0	0	0
12/19/2024 10:15	10801	CHIH_T1	0	0	0	0	0	0	-0.77	-0.79	1	1	0	900	900	0
12/19/2024 10:15	40701	FFLD_T1	40	35	-5	0.59	0.76	0.17	0	0	0	0	0	0	0	0
12/19/2024 10:15	40702	FFLD_T1	70	107	37	0.21	0.26	0.05	-0.9	-0.86	1	1	0	1200	1200	0
12/19/2024 10:15	40703	FFLD_T1	4	4	0	0.58	0.68	0.1	0	0	0	0	0	0	0	0
12/19/2024 10:19	13303	ORVI_T1	0	0	0	0	0	0	1	1.04	0	0	0	0	0	0
12/19/2024 10:21	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
12/19/2024 10:22	55002	NEWP_T1	5	5	0	0.68	0.6	-0.08	-0.19	-0.21	0	0	0	0	0	0
12/19/2024 10:22	55101	WERT_T1	0	0	0	0	0	0	-1.3	-1.51	2	2	0	1500	1500	0
12/19/2024 10:22	55103	WERT_T1	1	1	0	4.7	4.1	-0.6	0	0	0	0	0	0	0	0
12/19/2024 10:29	29401	BELT_T1	0	24	24	0	0.15	0.15	0	0	1	1	0	900	900	0
12/19/2024 10:29	29402	BELT_T1	1	1	0	7	7.4	0.4	0	0	0	0	0	0	0	0
12/19/2024 10:35	66505	SMAN_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
12/19/2024 10:35	66503	SMAN_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
12/19/2024 10:36	66505	SMAN_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
12/19/2024 10:36	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 10:41	61001	DONV_T1	1	1	0	0.3	0.1	-0.2	-0.05	0	0	0	0	0	0	0
12/19/2024 10:49	55002	NEWP_T1	5	5	0	0.6	0.46	-0.14	-0.21	-0.19	0	0	0	0	0	0
12/19/2024 10:51	14603	SWIH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 10:55	25602	ARRO_T1	405	405	0	2.06	2.34	0.28	0	0	0	0	0	0	0	0
12/19/2024 10:55	64904	MILL_T1	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
12/19/2024 10:55	25603	ARRO_T1	309	354	45	1.58	2.64	1.06	0	0	0	0	0	0	0	0
12/19/2024 10:55	25601	ARRO_T1	195	195	0	2.19	2.51	0.32	0	0	1	1	0	900	900	0
12/19/2024 11:00	24202	PROV_T4	0	0	0	0	0	0	-0.69	-0.75	1	1	0	1200	1200	0
12/19/2024 11:02	64801	MONE_T2	8	8	0	0.14	0.16	0.02	0	0	0	0	0	0	0	0
12/19/2024 11:02	52402	GRPA_T2	1	3	2	0.2	0.87	0.67	0	0	0	0	0	0	0	0
12/19/2024 11:02	64802	MONE_T2	46	55	9	0.28	0.29	0.01	0	0	0	0	0	0	0	0
12/19/2024 11:02	52401	GRPA_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
12/19/2024 11:02	52403	GRPA_T2	1	11	10	0.3	0.58	0.28	-0.12	-0.11	0	0	0	0	0	0
12/19/2024 11:07	64305	LINC_T1	0	1	1	0	0.6	0.6	0.26	-0.29	0	0	0	0	0	0
12/19/2024 11:13	24201	PROV_T3	1	1	0	6.5	6.5	0	-1.44	-1.41	1	1	0	1200	1200	0
12/19/2024 11:13	24204	PROV_T3	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
12/19/2024 11:14	63501	HEID_TBK1-2	0	40	40	0	0.34	0.34	-0.16	-0.14	1	1	0	900	900	0
12/19/2024 11:14	61502	EPET_T1	1	1	0	0.2	0.1	-0.1	-1.15	-1.24	0	0	0	0	0	0
12/19/2024 11:17	54506	ENOL_T2	0	0	0	0	0	0	0.43	0.37	1	0	-1	600	0	-600
12/19/2024 11:17	54502	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/19/2024 11:17	54505	ENOL_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
12/19/2024 11:17	63501	HEID_TBK1-2	4	42	38	0.13	0.36	0.23	-0.32	-0.28	2	2	0	1800	1800	0
12/19/2024 11:18	60501	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 11:18	60502	NMAN_T2	0	1	1	0	0.8	0.8	-0.27	-0.3	0	0	0	0	0	0
12/19/2024 11:18	60504	NMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/19/2024 11:18	45802	HEGI_T2	8	12	4	0.29	0.44	0.15	1.09	0.57	2	2	0	1800	1800	0
12/19/2024 11:19	55002	NEWP_T1	4	6	2	0.38	1.07	0.69	-0.2	-0.19	0	0	0	0	0	0
12/19/2024 11:20	55002	NEWP_T1	4	6	2	0.38	1.07	0.69	-0.2	-0.19	0	0	0	0	0	0
12/19/2024 11:20	64101	REFR_T1	0	1	1	0	0.5	0.5	-0.03	-0.05	0	0	0	0	0	0
12/19/2024 11:21	60504	NMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/19/2024 11:21	60501	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 11:21	60502	NMAN_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
12/19/2024 11:21	64101	REFR_T1	0	1	1	0	0.5	0.5	-0.05	-0.03	0	0	0	0	0	0
12/19/2024 11:22	64101	REFR_T1	0	1	1	0	0.5	0.5	-0.05	-0.03	0	0	0	0	0	0
12/19/2024 11:22	55002	NEWP_T1	4	6	2	0.38	1.07	0.69	-0.19	-0.19	0	0	0	0	0	0
12/19/2024 11:24	64302	LINC_T2	0	0	0	0	0	0	1.33	1.14	0	0	0	0	0	0
12/19/2024 11:24	64304	LINC_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
12/19/2024 11:25	60902	DONG_T2	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
12/19/2024 11:25	29301	DAPP_T1	1	1	0	9.3	9.7	0.4	0	0	0	0	0	0	0	0
12/19/2024 11:25	29302	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
12/19/2024 11:27	66203	SISP_T2	1	1	0	0.8	0	-0.8	-0.58	-0.55	1	1	0	1200	1200	0
12/19/2024 11:27	53501	EVIL_T2	2	2	0	0.8	0.95	0.15	-0.74	-0.74	1	1	0	600	600	0
12/19/2024 11:29	61703	ELIZ_T1	1	3	2	0.1	0.17	0.07	-2.53	-2.49	2	2	0	2100	2100	0
12/19/2024 11:29	61701	ELIZ_T1	1	1	0	5.6	6	0.4	0	0	0	0	0	0	0	0
12/19/2024 11:29	46602	LACR_T1	0	0	0	0	0	0	-0.86	-0.8	0	0	0	0	0	0
12/19/2024 11:30	61703	ELIZ_T1	3	1	-2	0.17	0.2	0.03	-5.06	-4.98	4	4	0	4200	4200	0
12/19/2024 11:30	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 11:30	61701	ELIZ_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
12/19/2024 11:31	61703	ELIZ_T1	3	1	-2	0.17	0.2	0.03	-5.06	-4.98	4	4	0	4200	4200	0
12/19/2024 11:31	54502	ENOL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
12/19/2024 11:31	61701	ELIZ_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
12/19/2024 11:31	54504	ENOL_T2	0	0	0	0	0	0	-1.04	-1.06	1	1	0	600	600	0
12/19/2024 11:31	54505	ENOL_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
12/19/2024 11:33	13502	MCMI_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
12/19/2024 11:33	13503	MCMI_T2	0	0	0	0	0	0	0.12	0.16	0	0	0	0	0	0
12/19/2024 11:34	65003	NEFF_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/19/2024 11:34	65005	NEFF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/19/2024 11:34	65001	NEFF_T2	0	0	0	0	0	0	0.54	0.48	0	0	0	0	0	0
12/19/2024 11:34	65004	NEFF_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
12/19/2024 11:35	57205	ROSS_T1	1	4	3	0.2	0.63	0.43	0	0	0	0	0	0	0	0
12/19/2024 11:35	57201	ROSS_T1	0	26	26	0	0.26	0.26	-0.53	-0.49	0	0	0	0	0	0
12/19/2024 11:36	65003	NEFF_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/19/2024 11:36	65004	NEFF_T2	1	1	0	0.7	0.2	-0.5	-0.48	-0.5	1	0	-1	600	0	-600
12/19/2024 11:36	50701	SMEC_T1	0	3	3	0	0.4	0.4	0.15	0.19	0	0	0	0	0	0
12/19/2024 11:36	65005	NEFF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/19/2024 11:38	57205	ROSS_T1	1	4	3	0.2	0.63	0.43	0.2	0.19	0	0	0	0	0	0
12/19/2024 11:38	57201	ROSS_T1	0	26	26	0	0.26	0.26	0	0	0	0	0	0	0	0
12/19/2024 11:39	50701	SMEC_T1	0	3	3	0	0.4	0.4	0.19	0.06	0	0	0	0	0	0
12/19/2024 11:39	25601	ARRO_T1	195	194	-1	1.94	1.43	-0.51	0	0	0	0	0	0	0	0
12/19/2024 11:39	25603	ARRO_T1	314	315	1	2.19	2.07	-0.12	0	0	0	0	0	0	0	0
12/19/2024 11:39	25602	ARRO_T1	405	403	-2	1.85	1.09	-0.76	0	0	0	0	0	0	0	0
12/19/2024 11:40	50701	SMEC_T1	0	3	3	0	0.4	0.4	0.19	0.06	0	0	0	0	0	0
12/19/2024 11:45	52403	GRPA_T2	27	15	-12	0.59	0.54	-0.05	0	0	0	0	0	0	0	0
12/19/2024 11:45	25601	ARRO_T1	194	195	1	1.42	2.17	0.75	0	0	0	0	0	0	0	0
12/19/2024 11:45	24105	EHAZ_T1	4	11	7	6.83	2.5	-4.33	0	0	0	0	0	0	0	0
12/19/2024 11:45	24102	EHAZ_T1	4	3	-1	0.7	1.8	1.1	0.17	0.2	0	0	0	0	0	0
12/19/2024 11:45	25602	ARRO_T1	400	405	5	1.06	2.13	1.07	0	0	0	0	0	0	0	0
12/19/2024 11:45	24101	EHAZ_T1	34	30	-4	1.12	1.12	0	0	0	0	0	0	0	0	0
12/19/2024 11:45	25603	ARRO_T1	314	315	1	2.06	1.29	-0.77	0	0	0	0	0	0	0	0
12/19/2024 11:45	52404	GRPA_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
12/19/2024 11:45	52402	GRPA_T2	4	3	-1	0.95	1.43	0.48	-0.79	-0.8	0	0	0	0	0	0
12/19/2024 11:45	52401	GRPA_T2	4	2	-2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/19/2024 11:46	52404	GRPA_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
12/19/2024 11:46	52402	GRPA_T2	4	3	-1	0.95	1.43	0.48	-0.79	-0.8	0	0	0	0	0	0
12/19/2024 11:46	52401	GRPA_T2	4	2	-2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/19/2024 11:46	52403	GRPA_T2	27	15	-12	0.59	0.54	-0.05	-0.08	-0.14	0	0	0	0	0	0
12/19/2024 11:47	63501	HEID_TBK1-2	36	31	-5	0.28	0.27	-0.01	-0.53	-0.76	3	3	0	2700	2700	0
12/19/2024 11:49	60502	NMAN_T2	1	1	0	0.8	0.5	-0.3	-0.32	-0.24	0	0	0	0	0	0
12/19/2024 11:49	10705	CATA_T2	0	0	0	0	0	0	-1.87	-1.85	2	2	0	1800	1800	0
12/19/2024 11:49	60501	NMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/19/2024 11:50	65202	PRIN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/19/2024 11:50	65205	PRIN_T1	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/19/2024 11:50	63501	HEID_TBK1-2	36	31	-5	0.28	0.27	-0.01	-0.18	-0.25	1	1	0	900	900	0
12/19/2024 11:51	55001	NEWP_T1	0	0	0	0	0	0	-0.33	-0.3	0	0	0	0	0	0
12/19/2024 11:51	55002	NEWP_T1	6	6	0	1.07	1.15	0.08	-0.19	-0.2	0	0	0	0	0	0
12/19/2024 11:51	63501	HEID_TBK1-2	36	31	-5	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
12/19/2024 11:52	55001	NEWP_T1	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
12/19/2024 11:52	57205	ROSS_T1	2	4	2	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
12/19/2024 11:52	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 11:52	55002	NEWP_T1	6	6	0	1.07	1.15	0.08	0	0	0	0	0	0	0	0
12/19/2024 11:52	57201	ROSS_T1	24	26	2	0.2	0.26	0.06	0	0	0	0	0	0	0	0
12/19/2024 11:53	57201	ROSS_T1	24	26	2	0.2	0.26	0.06	0	0	0	0	0	0	0	0
12/19/2024 11:53	57203	ROSS_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
12/19/2024 11:53	57205	ROSS_T1	2	4	2	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
12/19/2024 11:55	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 11:55	44502	HAMI_T2	1	1	0	2.4	2.9	0.5	0	0	0	0	0	0	0	0
12/19/2024 11:55	57201	ROSS_T1	24	26	2	0.2	0.26	0.06	0	0	0	0	0	0	0	0
12/19/2024 11:55	57205	ROSS_T1	2	4	2	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
12/19/2024 11:55	57203	ROSS_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
12/19/2024 11:56	57205	ROSS_T1	2	4	2	0.65	0.63	-0.02	0.19	0.17	0	0	0	0	0	0
12/19/2024 11:56	54601	SUMM_T2	4	4	0	0.33	0.43	0.1	0	0	0	0	0	0	0	0
12/19/2024 11:56	57201	ROSS_T1	24	26	2	0.2	0.26	0.06	0	0	0	0	0	0	0	0
12/19/2024 11:56	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/19/2024 11:57	61703	ELIZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/19/2024 11:57	61701	ELIZ_T1	1	1	0	6	6	0	0.25	0.08	0	0	0	0	0	0
12/19/2024 11:58	44502	HAMI_T2	1	1	0	2.4	2.9	0.5	0	0	0	0	0	0	0	0
12/19/2024 11:58	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 12:00	57205	ROSS_T1	4	1	-3	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
12/19/2024 12:00	57201	ROSS_T1	26	0	-26	0.26	0	-0.26	0	0	0	0	0	0	0	0
12/19/2024 12:00	57203	ROSS_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
12/19/2024 12:01	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/19/2024 12:01	54601	SUMM_T2	4	2	-2	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
12/19/2024 12:02	64702	LITI_T2	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
12/19/2024 12:04	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.06	1	1	0	600	600	0
12/19/2024 12:04	58402	MORO_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
12/19/2024 12:06	60502	NMAN_T2	1	0	-1	0.5	0	-0.5	-0.33	-0.31	0	0	0	0	0	0
12/19/2024 12:06	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.06	1	1	0	600	600	0
12/19/2024 12:06	58402	MORO_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
12/19/2024 12:07	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 12:07	41901	REED_T1	9	8	-1	0.59	0.54	-0.05	0	0	0	0	0	0	0	0
12/19/2024 12:07	58402	MORO_T1	2	0	-2	0.15	0	-0.15	-0.96	-1.03	3	3	0	2400	2400	0
12/19/2024 12:08	67402	WAKE_T2	1	0	-1	0.1	0	-0.1	1.11	1.1	0	0	0	0	0	0
12/19/2024 12:09	60801	BUCK_T1	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
12/19/2024 12:09	60803	BUCK_T1	4	14	10	0.13	0.26	0.13	-0.52	-0.52	1	1	0	600	600	0
12/19/2024 12:10	60801	BUCK_T1	0	8	8	0	0.13	0.13	-0.1	-0.15	0	0	0	0	0	0
12/19/2024 12:10	25602	ARRO_T1	398	407	9	1.01	2.49	1.48	0	0	0	0	0	0	0	0
12/19/2024 12:10	25601	ARRO_T1	193	195	2	1.27	2.49	1.22	0	0	0	0	0	0	0	0
12/19/2024 12:10	60803	BUCK_T1	4	14	10	0.13	0.26	0.13	-0.52	-0.52	1	1	0	600	600	0
12/19/2024 12:10	25603	ARRO_T1	302	59	-243	1.33	0.18	-1.15	-1.27	-1.28	0	0	0	0	0	0
12/19/2024 12:11	60803	BUCK_T1	4	14	10	0.13	0.26	0.13	-0.52	-0.52	1	1	0	600	600	0
12/19/2024 12:11	60801	BUCK_T1	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
12/19/2024 12:13	57205	ROSS_T1	4	1	-3	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
12/19/2024 12:13	57201	ROSS_T1	26	0	-26	0.26	0	-0.26	0	0	0	0	0	0	0	0
12/19/2024 12:13	14201	EALL_T1	0	1	1	0	0	0	0.59	0.59	0	0	0	0	0	0
12/19/2024 12:13	57203	ROSS_T1	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
12/19/2024 12:14	14705	TREX_T1	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
12/19/2024 12:14	60801	BUCK_T1	0	8	8	0	0.13	0.13	-0.29	-0.44	0	0	0	0	0	0
12/19/2024 12:14	14704	TREX_T1	1	1	0	7.3	7	-0.3	0	0	0	0	0	0	0	0
12/19/2024 12:14	60803	BUCK_T1	4	14	10	0.13	0.26	0.13	-1.04	-1.04	2	2	0	1200	1200	0
12/19/2024 12:15	25601	ARRO_T1	195	196	1	2.17	2.48	0.31	0	0	0	0	0	0	0	0
12/19/2024 12:15	40101	HUNT_T2	7	68	61	0.36	0.42	0.06	-1.24	-1.23	0	0	0	0	0	0
12/19/2024 12:15	41802	GOCI_T2	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
12/19/2024 12:15	41801	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/19/2024 12:15	25602	ARRO_T1	405	409	4	2.13	2.47	0.34	0	0	0	0	0	0	0	0
12/19/2024 12:15	48301	ORWI_T1	2	2	0	5.75	5.7	-0.05	-0.48	-0.38	1	1	0	900	900	0
12/19/2024 12:15	25603	ARRO_T1	27	58	31	0.15	0.18	0.03	-2.55	-2.56	0	0	0	0	0	0
12/19/2024 12:16	41801	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/19/2024 12:16	48301	ORWI_T1	2	2	0	5.75	5.7	-0.05	-0.96	-0.76	2	2	0	1800	1800	0
12/19/2024 12:16	14205	EALL_T2	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
12/19/2024 12:16	41802	GOCI_T2	8	0	-8	0.11	0	-0.11	0	0	0	0	0	0	0	0
12/19/2024 12:17	42903	MIDD_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
12/19/2024 12:17	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 12:18	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 12:19	42903	MIDD_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
12/19/2024 12:19	42902	MIDD_T2	0	0	0	0	0	0	-0.11	-0.04	0	0	0	0	0	0
12/19/2024 12:22	55002	NEWP_T1	6	6	0	0.97	1.03	0.06	-0.22	-0.23	0	0	0	0	0	0
12/19/2024 12:22	42902	MIDD_T2	0	0	0	0	0	0	-0.04	-0.13	0	0	0	0	0	0
12/19/2024 12:22	42903	MIDD_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
12/19/2024 12:27	48302	ORWI_T2	2	2	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
12/19/2024 12:27	48303	ORWI_T2	0	0	0	0	0	0	0.46	0.52	0	0	0	0	0	0
12/19/2024 12:28	10801	CHHI_T1	0	0	0	0	0	0	-0.65	-0.72	1	1	0	900	900	0
12/19/2024 12:28	11504	FREE_T1	0	0	0	0	0	0	-2.4	-2.35	2	2	0	2100	2100	0
12/19/2024 12:30	41305	FISH_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
12/19/2024 12:30	10805	CHHI_T2	1	2	1	7.8	7.8	0	-0.51	-0.46	1	1	0	600	600	0
12/19/2024 12:30	41301	FISH_T1	5	11	6	0.7	0.49	-0.21	-0.26	-0.27	0	0	0	0	0	0
12/19/2024 12:30	11504	FREE_T1	0	0	0	0	0	0	-2.4	-2.35	2	2	0	2100	2100	0
12/19/2024 12:32	45802	HEGI_T2	19	41	22	0.43	0.72	0.29	0	0	0	0	0	0	0	0
12/19/2024 12:36	14603	SWHI_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
12/19/2024 12:36	14601	SWHI_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
12/19/2024 12:38	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 12:38	14603	SWHI_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
12/19/2024 12:40	12801	MICK_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
12/19/2024 12:40	14601	SWHI_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
12/19/2024 12:40	14603	SWHI_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
12/19/2024 12:40	12807	MICK_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
12/19/2024 12:40	12803	MICK_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/19/2024 12:41	26401	INOR_T1	2	3	1	6.9	6.15	-0.75	-0.01	-0.01	0	0	0	0	0	0
12/19/2024 12:42	18001	ZION_T1	2	2	0	9.7	9.6	-0.1	0	0	0	0	0	0	0	0
12/19/2024 12:48	11301	EMMA_T1	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
12/19/2024 12:50	64202	KINZ_T1	3	2	-1	0.47	0.25	-0.22	0.7	0.7	0	0	0	0	0	0
12/19/2024 12:50	64204	KINZ_T1	3	1	-2	0.53	1	0.47	0	0	0	0	0	0	0	0
12/19/2024 12:53	66902	SHIL_T2	0	36	36	0	0.14	0.14	0	0	0	0	0	0	0	0
12/19/2024 12:53	66901	SHIL_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
12/19/2024 12:55	66902	SHIL_T2	0	36	36	0	0.14	0.14	-2.52	-3.78	0	0	0	0	0	0
12/19/2024 12:55	43201	MVIL_T2	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
12/19/2024 12:56	66902	SHIL_T2	0	36	36	0	0.14	0.14	0	0	0	0	0	0	0	0
12/19/2024 12:56	11202	ELHE_T2	0	0	0	0	0	0	0.38	0.4	1	0	-1	1200	0	-1200
12/19/2024 12:56	66903	SHIL_T2	0	0	0	0	0	0	-1.19	-1.16	0	0	0	0	0	0
12/19/2024 12:58	29402	BELT_T1	1	1	0	7	7.4	0.4	0	0	0	0	0	0	0	0
12/19/2024 12:58	29401	BELT_T1	3	10	7	0.1	0.12	0.02	0	0	0	0	0	0	0	0
12/19/2024 12:58	66902	SHIL_T2	0	36	36	0	0.14	0.14	-1.26	-1.89	0	0	0	0	0	0
12/19/2024 12:58	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 13:01	47901	HRDG_T1	0	0	0	0	0	0	2.36	2.46	0	0	0	0	0	0
12/19/2024 13:02	43801	SWIL_T1	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
12/19/2024 13:02	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.19	1	1	0	600	600	0
12/19/2024 13:06	14802	TREI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/19/2024 13:06	14801	TREI_T2	2	1	-1	0.55	0.8	0.25	0.41	0.42	0	0	0	0	0	0
12/19/2024 13:07	66903	SHIL_T2	0	0	0	0	0	0	-1.16	-1.18	0	0	0	0	0	0
12/19/2024 13:07	66902	SHIL_T2	0	52	52	0	0.18	0.18	0	0	0	0	0	0	0	0
12/19/2024 13:09	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 13:11	66903	SHIL_T2	0	0	0	0	0	0	-1.16	-1.18	0	0	0	0	0	0
12/19/2024 13:11	66902	SHIL_T2	0	52	52	0	0.18	0.18	0	0	0	0	0	0	0	0
12/19/2024 13:12	66902	SHIL_T2	0	52	52	0	0.18	0.18	0	0	0	0	0	0	0	0
12/19/2024 13:12	66903	SHIL_T2	0	0	0	0	0	0	-1.16	-1.18	0	0	0	0	0	0
12/19/2024 13:16	17401	FOHI_T1	0	0	0	0	0	0	-2.31	-2.27	0	0	0	0	0	0
12/19/2024 13:25	43801	SWIL_T1	1	1	0	5	5.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 13:25	43802	SWIL_T1	0	0	0	0	0	0	-0.18	0	1	1	0	600	600	0
12/19/2024 13:26	14801	TREI_T2	1	1	0	0.8	0.5	-0.3	0.42	0.42	0	0	0	0	0	0
12/19/2024 13:32	42902	MIDD_T2	0	0	0	0	0	0	-0.17	-0.08	0	0	0	0	0	0
12/19/2024 13:36	48602	POCA_T1	0	0	0	0	0	0	0.76	0.69	2	2	0	2400	2400	0
12/19/2024 13:40	49803	UNIV_T1	1	1	0	5.7	5.4	-0.3	-1.05	-1.07	0	0	0	0	0	0
12/19/2024 13:40	14801	TREI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/19/2024 13:40	14802	TREI_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
12/19/2024 13:42	17802	GILB_T1	1	0	-1	0.3	0	-0.3	0.17	0.16	0	0	0	0	0	0
12/19/2024 13:46	10801	CHHI_T1	0	0	0	0	0	0	-0.79	-0.75	1	1	0	900	900	0
12/19/2024 13:46	11301	EMMA_T1	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
12/19/2024 13:47	40101	HUNT_T2	49	92	43	0.31	0.33	0.02	-0.55	-0.51	0	0	0	0	0	0
12/19/2024 13:48	67402	WAKE_T2	0	0	0	0	0	0	1.12	1.09	0	0	0	0	0	0
12/19/2024 13:49	40101	HUNT_T2	49	92	43	0.31	0.33	0.02	-0.55	-0.51	0	0	0	0	0	0
12/19/2024 13:56	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 13:56	45501	DERR_T2	0	0	0	0	0	0	0.39	0.37	2	2	0	1800	1800	0
12/19/2024 13:58	24703	FLND_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 13:58	24702	FLND_T2	0	0	0	0	0	0	0.28	0.17	1	1	0	1200	1200	0
12/19/2024 13:59	52001	LING_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
12/19/2024 14:00	45501	DERR_T2	0	0	0	0	0	0	0.39	0.37	2	2	0	1800	1800	0
12/19/2024 14:01	41301	FISH_T1	3	2	-1	0.57	0.85	0.28	0	0	0	0	0	0	0	0
12/19/2024 14:03	41301	FISH_T1	3	2	-1	0.57	0.85	0.28	-0.29	-0.29	0	0	0	0	0	0
12/19/2024 14:07	54601	SUMM_T2	1	1	0	0.3	0.5	0.2	-1.85	-1.82	2	2	0	2100	2100	0
12/19/2024 14:11	54601	SUMM_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/19/2024 14:11	54603	SUMM_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/19/2024 14:13	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 14:29	54503	ENOL_T2	0	0	0	0	0	0	-0.4	-0.42	1	1	0	600	600	0
12/19/2024 14:29	54502	ENOL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
12/19/2024 14:29	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/19/2024 14:31	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/19/2024 14:31	54501	ENOL_T2	0	0	0	0	0	0	0.1	0.27	0	0	0	0	0	0
12/19/2024 14:31	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/19/2024 14:33	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/19/2024 14:33	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/19/2024 14:33	54501	ENOL_T2	0	0	0	0	0	0	0.1	0.27	0	0	0	0	0	0
12/19/2024 14:34	12002	HATF_T1	0	0	0	0	0	0	-0.82	-0.79	1	1	0	1200	1200	0
12/19/2024 14:51	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 14:51	63501	HEID_TBK1-2	2	3	1	0.7	0.63	-0.07	-0.29	-0.25	1	1	0	900	900	0
12/19/2024 14:51	41902	REED_T1	0	0	0	0	0	0	1.21	1.19	0	0	0	0	0	0
12/19/2024 14:53	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/19/2024 14:53	41902	REED_T1	0	0	0	0	0	0	2.37	2.28	0	0	0	0	0	0
12/19/2024 14:54	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 14:54	41902	REED_T1	0	0	0	0	0	0	1.19	1.14	0	0	0	0	0	0
12/19/2024 14:57	60701	BREC_T1	0	0	0	0	0	0	-0.85	-0.9	4	4	0	2400	2400	0
12/19/2024 14:58	60701	BREC_T1	0	0	0	0	0	0	-0.43	-0.45	2	2	0	1200	1200	0
12/19/2024 15:03	60701	BREC_T1	0	0	0	0	0	0	-0.43	-0.45	2	2	0	1200	1200	0
12/19/2024 15:25	60301	TWVA_T2	0	0	0	0	0	0	-3.28	-3.28	2	2	0	1800	1800	0
12/19/2024 15:33	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 15:35	66505	SMAN_T2	3	3	0	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
12/19/2024 15:35	66503	SMAN_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
12/19/2024 15:38	42601	TUSC_T1	0	1	1	0	0.1	0.1	-0.44	-0.36	1	1	0	1200	1200	0
12/19/2024 16:41	21501	CEAV_T2	0	0	0	0	0	0	1.13	1.1	0	0	0	0	0	0
12/19/2024 18:14	46602	LACR_T1	0	0	0	0	0	0	-0.79	-0.77	0	0	0	0	0	0
12/19/2024 18:20	17802	GILB_T1	0	0	0	0	0	0	0.18	0.24	0	0	0	0	0	0
12/19/2024 18:22	11504	FREE_T1	0	0	0	0	0	0	-2.29	-2.27	2	2	0	2100	2100	0
12/19/2024 18:23	13502	MCMI_T1	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
12/19/2024 18:23	13503	MCMI_T2	0	0	0	0	0	0	0.27	-0.66	0	0	0	0	0	0
12/19/2024 18:25	46501	LOHA_T1	1	1	0	0.3	0	-0.3	-0.13	-0.15	1	1	0	1200	1200	0
12/19/2024 18:25	46506	LOHA_T1	3	3	0	2.67	2.7	0.03	0	0	0	0	0	0	0	0
12/19/2024 18:26	39601	LNFD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:28	29402	BELT_T1	1	4	3	7.2	2.28	-4.92	0	0	0	0	0	0	0	0
12/19/2024 18:28	29401	BELT_T1	2	1	-1	0.1	0.1	0	0	0	1	1	0	900	900	0
12/19/2024 18:29	25602	ARRO_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
12/19/2024 18:29	26704	HEML_T2	0	0	0	0	0	0	-0.81	-0.82	1	1	0	1200	1200	0
12/19/2024 18:30	15603	NSTR_T2	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
12/19/2024 18:30	52004	LING_T2	4	3	-1	1.93	2.43	0.5	0.08	0.06	0	0	0	0	0	0
12/19/2024 18:30	15601	NSTR_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/19/2024 18:30	14801	TREI_T2	0	0	0	0	0	0	0.61	0.63	0	0	0	0	0	0
12/19/2024 18:31	54506	ENOL_T2	0	0	0	0	0	0	0.49	0.42	1	1	0	600	600	0
12/19/2024 18:31	40701	FFLD_T1	32	33	1	0.68	0.56	-0.12	0	0	0	0	0	0	0	0
12/19/2024 18:31	54505	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/19/2024 18:31	40703	FFLD_T1	4	4	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/19/2024 18:31	24702	FLND_T2	13	13	0	0.72	0.42	-0.3	-0.05	0.15	1	1	0	1200	1200	0
12/19/2024 18:31	40702	FFLD_T1	44	28	-16	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
12/19/2024 18:32	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:32	25601	ARRO_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
12/19/2024 18:33	29302	DAPP_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
12/19/2024 18:33	24102	EHAZ_T1	1	8	7	0.3	0.6	0.3	-0.25	-0.24	0	0	0	0	0	0
12/19/2024 18:33	24105	EHAZ_T1	4	4	0	5.73	5.85	0.12	0	0	0	0	0	0	0	0
12/19/2024 18:33	24101	EHAZ_T1	36	58	22	1.91	2.28	0.37	0	0	0	0	0	0	0	0
12/19/2024 18:33	29301	DAPP_T1	1	1	0	9.8	9.8	0	0	0	0	0	0	0	0	0
12/19/2024 18:34	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:34	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:34	16101	BING_T2	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
12/19/2024 18:34	60301	TWVA_T2	0	0	0	0	0	0	-3.29	-3.3	2	2	0	1800	1800	0
12/19/2024 18:34	11301	EMMA_T1	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
12/19/2024 18:34	44901	SCOT_T2	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
12/19/2024 18:35	66903	SHIL_T2	0	0	0	0	0	0	-1.21	-1.25	0	0	0	0	0	0
12/19/2024 18:35	40701	FFLD_T1	32	33	1	0.68	0.56	-0.12	0	0	0	0	0	0	0	0
12/19/2024 18:35	40703	FFLD_T1	4	4	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/19/2024 18:35	40702	FFLD_T1	44	28	-16	0.25	0.2	-0.05	-0.66	-0.62	1	1	0	1200	1200	0
12/19/2024 18:36	14205	EALL_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
12/19/2024 18:36	17401	FOHI_T1	0	0	0	0	0	0	-2.15	-2.11	0	0	0	0	0	0
12/19/2024 18:36	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:36	11504	FREE_T1	0	0	0	0	0	0	-2.27	-2.3	2	2	0	2100	2100	0
12/19/2024 18:36	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:36	14704	TREX_T1	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
12/19/2024 18:36	14705	TREX_T1	0	1	1	0	0	0	-0.34	-0.33	0	0	0	0	0	0
12/19/2024 18:36	63501	HEID_TBK1-2	36	1	-35	0.45	0.5	0.05	-0.42	0.45	1	0	-1	900	0	-900
12/19/2024 18:37	20603	GRWO_T2	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
12/19/2024 18:37	66902	SHIL_T2	0	0	0	0	0	0	-1.77	-1.75	0	0	0	0	0	0
12/19/2024 18:37	20602	GRWO_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/19/2024 18:37	50701	SMEC_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
12/19/2024 18:37	52001	LING_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
12/19/2024 18:37	63501	HEID_TBK1-2	36	1	-35	0.45	0.5	0.05	0.45	0.43	0	0	0	0	0	0
12/19/2024 18:37	61701	ELIZ_T1	1	1	0	4.5	4.8	0.3	0.23	0.15	0	0	0	0	0	0
12/19/2024 18:37	63602	LETO_T1	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
12/19/2024 18:37	20601	GRWO_T2	1	1	0	2.1	1.9	-0.2	0	0	0	0	0	0	0	0
12/19/2024 18:38	14601	SWHI_T1	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
12/19/2024 18:38	11202	ELHE_T2	0	0	0	0	0	0	0.41	0.41	1	1	0	1200	1200	0
12/19/2024 18:38	63501	HEID_TBK1-2	36	1	-35	0.45	0.5	0.05	0.45	0.43	0	0	0	0	0	0
12/19/2024 18:38	25603	ARRO_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
12/19/2024 18:38	54505	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/19/2024 18:38	54501	ENOL_T2	0	0	0	0	0	0	-0.54	-0.52	1	1	0	600	600	0
12/19/2024 18:38	10705	CATA_T2	0	0	0	0	0	0	-1.74	-1.74	2	2	0	1800	1800	0
12/19/2024 18:39	55001	NEWP_T1	0	1	1	0	0.1	0.1	-0.91	-0.9	1	1	0	600	600	0
12/19/2024 18:39	66901	SHIL_T2	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
12/19/2024 18:39	55002	NEWP_T1	4	4	0	1.15	1.38	0.23	-0.2	-0.2	0	0	0	0	0	0
12/19/2024 18:40	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
12/19/2024 18:40	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 18:40	60501	NMAN_T2	4	11	7	0.1	0.17	0.07	0	0	0	0	0	0	0	0
12/19/2024 18:40	55002	NEWP_T1	4	4	0	1.15	1.38	0.23	-0.2	-0.2	0	0	0	0	0	0
12/19/2024 18:40	12001	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:40	43801	SWIL_T1	2	2	0	3.05	2.9	-0.15	0	0	0	0	0	0	0	0
12/19/2024 18:40	43802	SWIL_T1	0	0	0	0	0	0	-0.15	-0.16	1	1	0	600	600	0
12/19/2024 18:40	54505	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/19/2024 18:40	54503	ENOL_T2	0	0	0	0	0	0	-0.38	-0.37	1	1	0	600	600	0
12/19/2024 18:40	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:40	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:40	12006	HATF_T1	2	2	0	0.95	0.85	-0.1	0	0	0	0	0	0	0	0
12/19/2024 18:40	40101	HUNT_T2	428	444	16	1.22	1.11	-0.11	-1.42	-1.41	0	0	0	0	0	0
12/19/2024 18:40	12002	HATF_T1	0	0	0	0	0	0	0.34	-0.94	0	1	1	0	1200	1200
12/19/2024 18:40	63501	HEID_TBK1-2	36	1	-35	0.45	0.5	0.05	0	0	0	0	0	0	0	0
12/19/2024 18:40	60502	NMAN_T2	0	0	0	0	0	0	-0.35	-0.31	0	0	0	0	0	0
12/19/2024 18:40	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:41	40101	HUNT_T2	428	444	16	1.22	1.11	-0.11	-1.42	-1.41	0	0	0	0	0	0
12/19/2024 18:41	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
12/19/2024 18:41	55002	NEWP_T1	4	4	0	1.15	1.38	0.23	-0.2	-0.2	0	0	0	0	0	0
12/19/2024 18:41	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 18:41	44902	SCOT_T2	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
12/19/2024 18:42	65004	NEFF_T2	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
12/19/2024 18:42	10801	CHHI_T1	0	0	0	0	0	0	-1.46	-1.46	2	2	0	1500	1500	0
12/19/2024 18:42	12801	MICK_T1	0	0	0	0	0	0	-0.42	-0.36	0	0	0	0	0	0
12/19/2024 18:42	63501	HEID_TBK1-2	36	1	-35	0.45	0.5	0.05	0.45	0.43	0	0	0	0	0	0
12/19/2024 18:42	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:42	24202	PROV_T4	1	0	-1	0.1	0	-0.1	-0.74	-0.75	1	1	0	1200	1200	0
12/19/2024 18:42	12803	MICK_T1	1	1	0	4.2	4.2	0	0	0	0	0	0	0	0	0
12/19/2024 18:42	42902	MIDD_T2	0	1	1	0	0	0	-0.47	-0.51	0	0	0	0	0	0
12/19/2024 18:42	65003	NEFF_T2	0	14	14	0	0.14	0.14	0	0	0	0	0	0	0	0
12/19/2024 18:42	12807	MICK_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
12/19/2024 18:42	45501	DERR_T2	0	0	0	0	0	0	0.57	0.56	2	2	0	1800	1800	0
12/19/2024 18:42	52001	LING_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
12/19/2024 18:42	60701	BREC_T1	0	0	0	0	0	0	-0.45	-0.45	1	1	0	600	600	0
12/19/2024 18:42	66902	SHIL_T2	0	0	0	0	0	0	-3.54	-3.5	0	0	0	0	0	0
12/19/2024 18:43	43304	WATS_T2	2	9	7	0.2	0.5	0.3	0	0	0	0	0	0	0	0
12/19/2024 18:43	43801	SWIL_T1	2	2	0	3.05	2.9	-0.15	0	0	0	0	0	0	0	0
12/19/2024 18:43	43302	WATS_T2	4	4	0	0.5	0.3	-0.2	-0.56	-0.54	2	2	0	1800	1800	0
12/19/2024 18:43	60701	BREC_T1	0	0	0	0	0	0	-0.45	-0.45	1	1	0	600	600	0
12/19/2024 18:43	63805	GREE_T1	0	0	0	0	0	0	-1.45	-1.53	0	0	0	0	0	0
12/19/2024 18:43	43802	SWIL_T1	0	0	0	0	0	0	-0.15	-0.16	1	1	0	600	600	0
12/19/2024 18:44	45501	DERR_T2	0	0	0	0	0	0	0.57	0.56	2	2	0	1800	1800	0
12/19/2024 18:44	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:44	14802	TREI_T2	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
12/19/2024 18:44	64802	MONE_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
12/19/2024 18:44	57201	ROSS_T1	0	0	0	0	0	0	-0.68	-0.63	0	0	0	0	0	0
12/19/2024 18:44	60201	ATGL_T2	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
12/19/2024 18:44	44502	HAMI_T2	1	1	0	2.5	2.3	-0.2	0	0	0	0	0	0	0	0
12/19/2024 18:44	10801	CHHI_T1	0	0	0	0	0	0	-1.46	-1.46	2	2	0	1500	1500	0
12/19/2024 18:44	44505	HAMI_T2	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
12/19/2024 18:44	14201	EALL_T1	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
12/19/2024 18:44	60803	BUCK_T1	0	0	0	0	0	0	-0.47	-0.47	1	1	0	600	600	0
12/19/2024 18:45	24204	PROV_T3	1	7	6	5.8	0.97	-4.83	0	0	0	0	0	0	0	0
12/19/2024 18:45	63602	LETO_T1	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
12/19/2024 18:45	24205	PROV_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 18:45	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:45	63801	HEMP_T1	0	0	0	0	0	0	0.63	0.66	0	0	0	0	0	0
12/19/2024 18:45	63804	HEMP_T1	1	1	0	6.6	6.1	-0.5	0	0	0	0	0	0	0	0
12/19/2024 18:45	65001	NEFF_T2	0	0	0	0	0	0	0.28	0.4	0	0	0	0	0	0
12/19/2024 18:45	42902	MIDD_T2	1	1	0	0.1	0	-0.1	-0.47	-0.51	0	0	0	0	0	0
12/19/2024 18:45	44905	SCOT_T1	13	27	14	0.35	0.46	0.11	0	0	0	0	0	0	0	0
12/19/2024 18:45	24201	PROV_T3	1	1	0	7.1	6.6	-0.5	-1.36	-1.38	1	1	0	1200	1200	0
12/19/2024 18:45	65003	NEFF_T2	3	102	99	0.1	0.25	0.15	0	0	0	0	0	0	0	0
12/19/2024 18:45	55405	SHER_T1	5	5	0	0.52	0.7	0.18	0	0	0	0	0	0	0	0
12/19/2024 18:46	64802	MONE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:46	60501	NMAN_T2	3	11	8	0.1	0.17	0.07	0	0	0	0	0	0	0	0
12/19/2024 18:46	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:46	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
12/19/2024 18:46	60803	BUCK_T1	0	0	0	0	0	0	-0.94	-0.94	2	2	0	1200	1200	0
12/19/2024 18:46	14801	TREI_T2	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
12/19/2024 18:46	65202	PRIN_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/19/2024 18:46	60502	NMAN_T2	0	0	0	0	0	0	-0.35	-0.31	0	0	0	0	0	0
12/19/2024 18:46	65205	PRIN_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
12/19/2024 18:47	64202	KINZ_T1	0	0	0	0	0	0	0.71	0.74	0	0	0	0	0	0
12/19/2024 18:47	64204	KINZ_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
12/19/2024 18:47	61703	ELIZ_T1	0	0	0	0	0	0	-2.45	-2.49	2	2	0	2100	2100	0
12/19/2024 18:47	61701	ELIZ_T1	1	1	0	4.6	5.1	0.5	0	0	0	0	0	0	0	0
12/19/2024 18:47	55103	WERT_T1	1	1	0	5.2	4.1	-1.1	0	0	0	0	0	0	0	0
12/19/2024 18:47	41902	REED_T1	1	5	4	0.1	0.43	0.33	0.31	0.32	0	0	0	0	0	0
12/19/2024 18:47	42902	MIDD_T2	1	1	0	0.1	0	-0.1	-0.47	-0.51	0	0	0	0	0	0
12/19/2024 18:47	63501	HEID_TBK1-2	1	1	0	0.4	0.5	0.1	0.9	0.86	0	0	0	0	0	0
12/19/2024 18:47	41901	REED_T1	5	5	0	0.22	0.34	0.12	0	0	0	0	0	0	0	0
12/19/2024 18:47	43202	MVIL_T2	2	3	1	1.25	1.7	0.45	0	0	0	0	0	0	0	0
12/19/2024 18:47	64201	KINZ_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/19/2024 18:47	55101	WERT_T1	0	0	0	0	0	0	-1.16	-1.3	2	2	0	1500	1500	0
12/19/2024 18:47	43201	MVIL_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
12/19/2024 18:48	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:48	44502	HAMI_T2	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
12/19/2024 18:48	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:48	10805	CHHI_T2	1	1	0	7.7	7.4	-0.3	-0.99	-0.97	1	1	0	600	600	0
12/19/2024 18:48	13202	PALM_T2	0	2	2	0	0	0	0	0	3	3	0	3000	3000	0
12/19/2024 18:48	13303	ORVI_T1	0	0	0	0	0	0	0.74	0.76	0	0	0	0	0	0
12/19/2024 18:48	60501	NMAN_T2	3	11	8	0.1	0.17	0.07	0	0	0	0	0	0	0	0
12/19/2024 18:49	63804	HEMP_T1	1	1	0	6.6	6.1	-0.5	0	0	0	0	0	0	0	0
12/19/2024 18:49	45802	HEGI_T2	13	14	1	0.38	0.49	0.11	1.54	1.36	0	0	0	0	0	0
12/19/2024 18:49	48301	ORWI_T1	2	2	0	3.5	3.85	0.35	0.37	0.31	0	0	0	0	0	0
12/19/2024 18:49	61001	DONV_T1	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
12/19/2024 18:49	25603	ARRO_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
12/19/2024 18:49	54601	SUMM_T2	2	4	2	0.25	0.45	0.2	0	0	0	0	0	0	0	0
12/19/2024 18:49	65401	MARI_T1	0	0	0	0	0	0	0.32	0.35	0	0	0	0	0	0
12/19/2024 18:49	41902	REED_T1	1	5	4	0.1	0.43	0.33	0.62	0.64	0	0	0	0	0	0
12/19/2024 18:49	57205	ROSS_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
12/19/2024 18:49	41901	REED_T1	5	5	0	0.22	0.34	0.12	0	0	0	0	0	0	0	0
12/19/2024 18:49	49803	UNIV_T1	1	1	0	6.4	6.3	-0.1	-0.99	-0.98	0	0	0	0	0	0
12/19/2024 18:49	63803	HEMP_T1	0	0	0	0	0	0	0.63	0.66	0	0	0	0	0	0
12/19/2024 18:49	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/19/2024 18:50	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/19/2024 18:50	52402	GRPA_T2	3	3	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
12/19/2024 18:50	54601	SUMM_T2	2	4	2	0.25	0.45	0.2	0	0	0	0	0	0	0	0
12/19/2024 18:50	41301	FISH_T1	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
12/19/2024 18:50	41902	REED_T1	1	5	4	0.1	0.43	0.33	0.31	0.32	0	0	0	0	0	0
12/19/2024 18:50	66903	SHIL_T2	0	0	0	0	0	0	-1.25	-1.23	0	0	0	0	0	0
12/19/2024 18:50	52403	GRPA_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
12/19/2024 18:50	64702	LITI_T2	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
12/19/2024 18:50	44505	HAMI_T2	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
12/19/2024 18:50	44502	HAMI_T2	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
12/19/2024 18:50	64802	MONE_T2	0	1	1	0	0	0	-0.02	0	0	0	0	0	0	0
12/19/2024 18:50	48301	ORWI_T1	2	2	0	3.5	3.85	0.35	0.37	0.31	0	0	0	0	0	0
12/19/2024 18:50	41901	REED_T1	5	5	0	0.22	0.34	0.12	0	0	0	0	0	0	0	0
12/19/2024 18:50	57205	ROSS_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
12/19/2024 18:50	52404	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
12/19/2024 18:50	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:50	10801	CHHI_T1	0	0	0	0	0	0	-1.46	-1.46	2	2	0	1500	1500	0
12/19/2024 18:50	57203	ROSS_T1	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
12/19/2024 18:50	66902	SHIL_T2	0	12	12	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 18:50	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:51	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:51	53501	EVIL_T2	2	1	-1	0.45	0.2	-0.25	-0.9	-0.88	1	1	0	600	600	0
12/19/2024 18:51	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-1.02	1	1	0	600	600	0
12/19/2024 18:51	55001	NEWP_T1	1	1	0	0.1	0.1	0	-0.9	-0.86	1	1	0	600	600	0
12/19/2024 18:51	48303	ORWI_T2	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
12/19/2024 18:51	48602	POCA_T1	0	0	0	0	0	0	1.55	1.5	0	0	0	0	0	0
12/19/2024 18:51	54505	ENOL_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
12/19/2024 18:51	61703	ELIZ_T1	0	0	0	0	0	0	-2.45	-2.49	2	2	0	2100	2100	0
12/19/2024 18:51	55002	NEWP_T1	4	4	0	1.33	1.5	0.17	0	0	0	0	0	0	0	0
12/19/2024 18:51	47901	HRDG_T1	0	0	0	0	0	0	0.87	0.82	0	0	0	0	0	0
12/19/2024 18:51	61701	ELIZ_T1	1	1	0	4.6	5.1	0.5	0	0	0	0	0	0	0	0
12/19/2024 18:51	44502	HAMI_T2	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
12/19/2024 18:51	52402	GRPA_T2	3	3	0	0.9	0.7	-0.2	-0.72	-0.74	0	0	0	0	0	0
12/19/2024 18:51	48302	ORWI_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
12/19/2024 18:51	41301	FISH_T1	1	1	0	2.2	2.3	0.1	-0.27	-0.28	0	0	0	0	0	0
12/19/2024 18:51	52404	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
12/19/2024 18:51	57203	ROSS_T1	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
12/19/2024 18:52	61701	ELIZ_T1	1	1	0	4.6	5.1	0.5	0	0	0	0	0	0	0	0
12/19/2024 18:52	14601	SWHI_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
12/19/2024 18:52	49804	UNIV_T1	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
12/19/2024 18:52	60502	NMAN_T2	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
12/19/2024 18:52	60501	NMAN_T2	3	11	8	0.1	0.17	0.07	0	0	0	0	0	0	0	0
12/19/2024 18:52	14204	EALL_T2	0	0	0	0	0	0	0.13	0.22	0	0	0	0	0	0
12/19/2024 18:52	49803	UNIV_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
12/19/2024 18:52	50701	SMEC_T1	0	0	0	0	0	0	0.12	0.06	0	0	0	0	0	0
12/19/2024 18:52	61703	ELIZ_T1	0	0	0	0	0	0	-2.49	-2.49	2	2	0	2100	2100	0
12/19/2024 18:53	57205	ROSS_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
12/19/2024 18:53	57201	ROSS_T1	0	0	0	0	0	0	-1.26	-1.23	0	0	0	0	0	0
12/19/2024 18:53	58402	MORO_T1	0	1	1	0	0.1	0.1	-1.12	-1.12	4	4	0	2850	2850	0
12/19/2024 18:53	54505	ENOL_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
12/19/2024 18:53	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-1.02	1	1	0	600	600	0
12/19/2024 18:53	61701	ELIZ_T1	1	1	0	4.6	5.1	0.5	0	0	0	0	0	0	0	0
12/19/2024 18:53	61703	ELIZ_T1	0	0	0	0	0	0	-2.49	-2.49	2	2	0	2100	2100	0
12/19/2024 18:53	41301	FISH_T1	1	1	0	2.2	2.3	0.1	-0.28	-0.26	0	0	0	0	0	0
12/19/2024 18:53	52502	PROG_T2	0	0	0	0	0	0	0.85	-0.96	0	2	2	0	1800	1800
12/19/2024 18:54	21502	CEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 18:54	21501	CEAV_T2	0	0	0	0	0	0	1.17	1.14	0	0	0	0	0	0
12/19/2024 18:54	50701	SMEC_T1	0	0	0	0	0	0	0.12	0.06	0	0	0	0	0	0
12/19/2024 18:54	58401	MORO_T1	0	0	0	0	0	0	-0.94	-1.03	1	1	0	600	600	0
12/19/2024 18:54	11301	EMMA_T1	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
12/19/2024 18:54	40101	HUNT_T2	407	445	38	1.12	1.13	0.01	-1.41	-1.42	0	0	0	0	0	0
12/19/2024 18:54	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 18:54	52502	PROG_T2	0	0	0	0	0	0	0.43	-0.48	0	1	1	0	900	900
12/19/2024 18:55	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:55	52502	PROG_T2	0	0	0	0	0	0	0.43	-0.48	0	1	1	0	900	900
12/19/2024 18:55	63501	HEID_TBK1-2	1	1	0	0.4	0.5	0.1	0.43	0.38	0	0	0	0	0	0
12/19/2024 18:55	60803	BUCK_T1	0	0	0	0	0	0	-0.47	-0.48	1	1	0	600	600	0
12/19/2024 18:55	66902	SHIL_T2	0	12	12	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 18:55	66903	SHIL_T2	0	0	0	0	0	0	-1.23	-1.23	0	0	0	0	0	0
12/19/2024 18:55	65003	NEFF_T2	3	102	99	0.1	0.25	0.15	0	0	0	0	0	0	0	0
12/19/2024 18:55	66505	SMAN_T2	3	3	0	1.07	1.27	0.2	0	0	0	0	0	0	0	0
12/19/2024 18:55	48301	ORWI_T1	2	2	0	3.5	3.85	0.35	0.31	0.36	0	0	0	0	0	0
12/19/2024 18:55	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:55	54501	ENOL_T2	0	0	0	0	0	0	-0.52	-0.47	1	1	0	600	600	0
12/19/2024 18:55	60801	BUCK_T1	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
12/19/2024 18:55	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-1.02	1	1	0	600	600	0
12/19/2024 18:55	65005	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:55	54505	ENOL_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
12/19/2024 18:56	18001	ZION_T1	2	2	0	9	9.2	0.2	0	0	0	0	0	0	0	0
12/19/2024 18:56	48602	POCA_T1	0	0	0	0	0	0	1.5	1.54	0	0	0	0	0	0
12/19/2024 18:56	66902	SHIL_T2	0	12	12	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 18:56	45802	HEGI_T2	13	14	1	0.38	0.49	0.11	0	0	0	0	0	0	0	0
12/19/2024 18:56	66903	SHIL_T2	0	0	0	0	0	0	-1.23	-1.23	0	0	0	0	0	0
12/19/2024 18:57	63305	GREE_T1	0	4	4	0	0.25	0.25	-1.53	-1.46	0	0	0	0	0	0
12/19/2024 18:57	61703	ELIZ_T1	0	0	0	0	0	0	-2.49	-2.49	2	2	0	2100	2100	0
12/19/2024 18:57	61701	ELIZ_T1	1	1	0	4.6	5.1	0.5	0	0	0	0	0	0	0	0
12/19/2024 18:57	64802	MONE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:57	60701	BREC_T1	0	0	0	0	0	0	-0.45	-0.42	1	1	0	600	600	0
12/19/2024 18:57	61502	EPET_T1	0	0	0	0	0	0	-1.19	-1.22	0	0	0	0	0	0
12/19/2024 18:57	67402	WAKE_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
12/19/2024 18:58	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:58	61701	ELIZ_T1	1	1	0	4.6	5.1	0.5	0	0	0	0	0	0	0	0
12/19/2024 18:58	60803	BUCK_T1	0	0	0	0	0	0	-0.47	-0.48	1	1	0	600	600	0
12/19/2024 18:58	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:58	57205	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:59	55103	WERT_T1	1	1	0	5.2	4.1	-1.1	0	0	0	0	0	0	0	0
12/19/2024 18:59	55101	WERT_T1	0	0	0	0	0	0	-1.3	-1.3	2	2	0	1500	1500	0
12/19/2024 18:59	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:59	60501	NMAN_T2	3	11	8	0.1	0.17	0.07	0	0	0	0	0	0	0	0
12/19/2024 18:59	66203	SISP_T2	0	0	0	0	0	0	-0.63	-1.33	1	2	1	1200	1800	600
12/19/2024 18:59	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.12	0	0	0	0	0	0
12/19/2024 18:59	64802	MONE_T2	0	1	1	0	0	0	0	-0.02	0	0	0	0	0	0
12/19/2024 18:59	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 18:59	65502	MOJO_T2	12	24	12	0.1	0.1	0	0	0	0	0	0	0	0	0
12/19/2024 19:00	58401	MORO_T1	0	0	0	0	0	0	-0.94	-1.03	1	1	0	600	600	0
12/19/2024 19:00	60701	BREC_T1	0	0	0	0	0	0	-0.45	-0.42	1	1	0	600	600	0
12/19/2024 19:00	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 19:00	57203	ROSS_T1	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
12/19/2024 19:00	63501	HEID_TBK1-2	1	1	0	0.5	0.3	-0.2	0.43	0.38	0	0	0	0	0	0
12/19/2024 19:00	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 19:01	60501	NMAN_T2	11	4	-7	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
12/19/2024 19:01	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/19/2024 19:02	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 19:02	64901	MILL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/19/2024 19:02	64904	MILL_T1	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
12/19/2024 19:02	52402	GRPA_T2	3	3	0	0.67	1.03	0.36	-0.72	-0.74	0	0	0	0	0	0
12/19/2024 19:02	52403	GRPA_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
12/19/2024 19:02	52404	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
12/19/2024 19:02	58401	MORO_T1	0	0	0	0	0	0	-0.94	-1.03	1	1	0	600	600	0
12/19/2024 19:04	64101	REFR_T1	0	1	1	0	0	0	-0.04	-0.06	0	0	0	0	0	0
12/19/2024 19:05	64305	LINC_T1	0	0	0	0	0	0	-0.5	-0.62	0	0	0	0	0	0
12/19/2024 19:06	46001	BERW_T1	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
12/19/2024 19:09	67402	WAKE_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
12/19/2024 19:17	58402	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/19/2024 19:17	58401	MORO_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	600	600	0
12/19/2024 20:09	57201	ROSS_T1	0	0	0	0	0	0	-0.63	-0.59	0	0	0	0	0	0
12/20/2024 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
12/20/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
12/20/2024 9:00	10705	CATA_T2	0	0	0	0	0	0	-2.65	-2.61	3	3	0	2700	2700	0
12/20/2024 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
12/20/2024 9:13	57004	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/20/2024 9:13	57001	WHHI_T2	0	0	0	0	0	0	-1.08	-1.07	1	1	0	900	900	0
12/20/2024 9:34	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/20/2024 10:22	20603	GRWO_T2	0	0	0	0	0	0	-0.52	-0.5	1	1	0	900	900	0
12/20/2024 10:22	20601	GRWO_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/20/2024 11:42	53501	EVIL_T2	2	0	0	1.05	0.95	-0.1	0	0	0	0	0	0	0	0
12/20/2024 11:42	10805	CHHI_T2	1	1	0	7.5	7.2	-0.3	-0.97	-0.99	1	1	0	600	600	0
12/20/2024 11:48	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/20/2024 11:50	57205	ROSS_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
12/20/2024 11:52	57201	ROSS_T1	0	0	0	0	0	0	-0.61	-0.54	0	0	0	0	0	0
12/20/2024 12:01	20201	JERM_T1	13	34	21	0.12	0.18	0.06	0	0	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/20/2024 12:08	54601	SUMM_T2	0	0	0	0	0	0	-1.72	-1.71	2	2	0	2100	2100	0
12/20/2024 12:23	46004	BERW_T2	1	3	2	0.5	0	-0.5	-0.5	-0.51	0	0	0	0	0	0
12/20/2024 12:23	24202	PROV_T4	0	0	0	0	0	0	-0.74	-0.72	1	1	0	1200	1200	0
12/20/2024 12:24	60701	BREC_T1	0	0	0	0	0	0	-0.3	-0.3	2	2	0	1200	1200	0
12/20/2024 12:26	60701	BREC_T1	0	0	0	0	0	0	-0.3	-0.3	2	2	0	1200	1200	0
12/20/2024 12:28	60701	BREC_T1	0	0	0	0	0	0	-0.3	-0.3	2	2	0	1200	1200	0
12/20/2024 12:28	63501	HEID_TBK1-2	31	31	0	0.29	0.19	-0.1	-0.41	-0.44	1	1	0	900	900	0
12/20/2024 12:29	41504	FAIR_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
12/20/2024 12:31	63501	HEID_TBK1-2	24	33	9	0.19	0.26	0.07	-0.41	-0.44	1	1	0	900	900	0
12/20/2024 12:33	63501	HEID_TBK1-2	24	33	9	0.19	0.26	0.07	-0.41	-0.44	1	1	0	900	900	0
12/20/2024 12:36	57201	ROSS_T1	0	0	0	0	0	0	-0.47	-0.53	0	0	0	0	0	0
12/20/2024 12:47	58401	MORO_T1	0	0	0	0	0	0	-0.93	-0.89	1	1	0	600	600	0
12/20/2024 12:49	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/20/2024 12:56	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/20/2024 12:56	60904	DONG_T2	1	0	-1	3.9	0	-3.9	0	0	0	0	0	0	0	0
12/20/2024 12:56	60201	ATGL_T2	0	0	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
12/20/2024 13:16	64203	KINZ_T1	0	0	0	0	0	0	-0.68	-0.67	3	3	0	2100	2100	0
12/20/2024 13:16	64204	KINZ_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/20/2024 13:23	46002	BERW_T2	0	0	0	0	0	0	-0.84	-0.82	1	1	0	900	900	0
12/20/2024 13:23	46004	BERW_T2	3	6	3	0.13	0	-0.13	0	0	0	0	0	0	0	0
12/20/2024 13:34	52502	PROG_T2	0	0	0	0	0	0	0.52	0.59	0	0	0	0	0	0
12/20/2024 13:54	44901	SCOT_T2	0	0	0	0	0	0	-0.25	-0.37	0	0	0	0	0	0
12/20/2024 14:06	63804	HEMP_T1	1	1	0	6.6	6.4	-0.2	0.56	0.59	0	0	0	0	0	0
12/20/2024 17:28	10805	CHHI_T2	7	8	1	1.64	1.62	-0.02	-0.97	-1.01	1	1	0	600	600	0
12/20/2024 18:00	20601	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/20/2024 18:00	20603	GRWO_T2	13	19	6	0.22	0.31	0.09	-0.47	-0.5	1	1	0	900	900	0
12/20/2024 18:02	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/20/2024 18:03	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/20/2024 18:06	20201	JERM_T1	0	0	0	0	0	0	0.03	-0.02	1	1	0	1200	1200	0
12/20/2024 18:10	53501	EVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/20/2024 18:11	24202	PROV_T4	0	0	0	0	0	0	-0.76	-0.76	1	1	0	1200	1200	0
12/20/2024 18:12	46002	BERW_T2	0	0	0	0	0	0	-0.26	-0.22	0	0	0	0	0	0
12/20/2024 18:12	46004	BERW_T2	3	6	3	0.97	0.4	-0.57	0	0	0	0	0	0	0	0
12/20/2024 18:14	63501	HEID_TBK1-2	1	2	1	0.2	0.1	-0.1	-0.37	-0.41	1	1	0	900	900	0
12/20/2024 18:15	63501	HEID_TBK1-2	1	2	1	0.1	0.15	0.05	-0.37	-0.41	1	1	0	900	900	0
12/20/2024 18:15	41504	FAIR_T2	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
12/20/2024 18:17	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/20/2024 18:18	46004	BERW_T2	5	6	1	0.44	0.45	0.01	-0.75	-0.73	0	0	0	0	0	0
12/20/2024 18:22	52502	PROG_T2	0	0	0	0	0	0	0.63	0.58	0	0	0	0	0	0
12/20/2024 18:24	60201	ATGL_T2	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
12/20/2024 18:27	63501	HEID_TBK1-2	1	2	1	0.1	0.15	0.05	-0.41	-0.46	1	1	0	900	900	0
12/20/2024 18:30	60701	BREC_T1	0	0	0	0	0	0	-0.37	-0.35	1	1	0	600	600	0
12/20/2024 18:33	57201	ROSS_T1	0	18	18	0	0.18	0.18	0	0	0	0	0	0	0	0
12/20/2024 18:33	57205	ROSS_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
12/20/2024 18:34	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/20/2024 18:34	57001	WHHI_T2	0	0	0	0	0	0	-0.32	-0.29	1	1	0	900	900	0
12/20/2024 18:36	57201	ROSS_T1	0	18	18	0	0.18	0.18	-0.53	-0.61	0	0	0	0	0	0
12/20/2024 18:38	57201	ROSS_T1	0	18	18	0	0.18	0.18	-0.53	-0.61	0	0	0	0	0	0
12/20/2024 18:39	54601	SUMM_T2	1	2	1	0.1	0.3	0.2	-1.8	-1.78	2	2	0	2100	2100	0
12/20/2024 19:29	60701	BREC_T1	0	0	0	0	0	0	-0.37	-0.37	1	1	0	600	600	0
12/20/2024 20:12	44901	SCOT_T2	0	0	0	0	0	0	-0.25	-0.13	0	0	0	0	0	0
12/20/2024 22:28	60701	BREC_T1	0	0	0	0	0	0	-0.54	-0.55	1	1	0	600	600	0
12/21/2024 9:00	67503	WEWI_T2	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
12/21/2024 9:00	40505	CRES_T1	1	0	-1	1.2	0	-1.2	0.37	0.38	0	0	0	0	0	0
12/21/2024 9:00	40504	CRES_T1	1	3	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
12/21/2024 9:00	10705	CATA_T2	1	0	-1	1.4	0	-1.4	-0.81	-0.8	1	1	0	900	900	0
12/21/2024 9:19	28102	TWLA_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
12/21/2024 9:39	64403	LAND_T1	0	0	0	0	0	0	-1.67	-1.7	1	1	0	900	900	0
12/21/2024 10:12	52202	DEVO_T2	1	0	-1	0.3	0	-0.3	-3.33	-3.3	0	0	0	0	0	0
12/21/2024 10:12	52204	DEVO_T2	7	7	0	1.93	0.6	-1.33	0	0	0	0	0	0	0	0
12/21/2024 10:17	52004	LING_T2	2	2	0	2.15	2.85	0.7	0.09	0.09	0	0	0	0	0	0
12/21/2024 10:19	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 10:20	52502	PROG_T2	0	0	0	0	0	0	-0.34	0.66	1	0	-1	900	0	-900
12/21/2024 10:21	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 10:22	52502	PROG_T2	0	0	0	0	0	0	1.31	1.3	0	0	0	0	0	0
12/21/2024 10:29	52402	GRPA_T2	4	3	-1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
12/21/2024 10:29	52404	GRPA_T2	2	0	-2	0.8	0	-0.8	0	0	0	0	0	0	0	0
12/21/2024 10:29	52401	GRPA_T2	0	7	7	0	0.5	0.5	0	0	0	0	0	0	0	0
12/21/2024 10:29	52403	GRPA_T2	37	61	24	0.66	0.58	-0.08	-0.22	-0.16	0	0	0	0	0	0
12/21/2024 10:32	58402	MORO_T1	0	0	0	0	0	0	-1.14	-1.09	3	3	0	2400	2400	0
12/21/2024 10:35	55002	NEWP_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
12/21/2024 10:39	59202	THOM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/21/2024 10:42	44301	BEAV_T2	3	6	3	1.6	1.78	0.18	-0.86	-0.92	1	1	0	600	600	0
12/21/2024 10:45	40101	HUNT_T2	471	489	18	2	1.4	-0.6	-1.73	-1.81	0	0	0	0	0	0
12/21/2024 10:51	67702	WERN_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
12/21/2024 10:51	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 10:52	67702	WERN_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
12/21/2024 10:52	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 10:52	64101	REFR_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
12/21/2024 10:53	64101	REFR_T1	0	0	0	0	0	0	0.24	0.17	0	0	0	0	0	0
12/21/2024 10:55	63202	MGTN_T2	1	1	0	9.7	5.3	-4.4	0.45	0.45	0	0	0	0	0	0
12/21/2024 10:55	64101	REFR_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
12/21/2024 10:56	67702	WERN_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
12/21/2024 10:56	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 11:02	52002	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/21/2024 11:02	52004	LING_T2	2	2	0	3.05	3.25	0.2	0.06	0.08	0	0	0	0	0	0
12/21/2024 11:04	52502	PROG_T2	0	0	0	0	0	0	0.6	0.62	0	0	0	0	0	0
12/21/2024 11:06	51204	MTON_T2	0	0	0	0	0	0	-0.76	-0.77	1	1	0	900	900	0
12/21/2024 11:09	67402	WAKE_T2	0	0	0	0	0	0	-0.33	-0.34	1	1	0	600	600	0
12/21/2024 11:10	67401	WAKE_T2	0	0	0	0	0	0	-1.06	-1.04	0	0	0	0	0	0
12/21/2024 11:11	67403	WAKE_T2	0	0	0	0	0	0	-1.06	-1.04	0	0	0	0	0	0
12/21/2024 11:16	40603	PIGR_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/21/2024 11:16	40602	PIGR_T1	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
12/21/2024 11:18	63804	HEMP_T1	1	7	6	5.9	6.4	0.5	0	0	0	0	0	0	0	0
12/21/2024 11:18	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	-0.06	-0.11	0	0	0	0	0	0
12/21/2024 11:21	51201	MTON_T1	0	0	0	0	0	0	0.12	0.08	0	0	0	0	0	0
12/21/2024 11:26	43304	WATS_T2	2	11	9	0.2	0.33	0.13	0	0	0	0	0	0	0	0
12/21/2024 11:27	61001	DONV_T1	0	0	0	0	0	0	-0.1	-0.04	0	0	0	0	0	0
12/21/2024 11:31	61001	DONV_T1	0	1	1	0	0.7	0.7	-0.05	-0.02	0	0	0	0	0	0
12/21/2024 11:36	67703	WERN_T2	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
12/21/2024 11:36	67702	WERN_T2	3	1	-2	1.23	0	-1.23	0	0	0	0	0	0	0	0
12/21/2024 11:46	44502	HAMI_T2	1	1	0	2.5	2.8	0.3	0	0	0	0	0	0	0	0
12/21/2024 11:46	44503	HAMI_T2	0	0	0	0	0	0	-0.57	-0.54	0	0	0	0	0	0
12/21/2024 11:46	58202	NEWV_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
12/21/2024 11:46	44501	HAMI_T2	2	7	5	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/21/2024 11:51	58101	NEKI_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
12/21/2024 11:51	58102	NEKI_T1	1	1	0	0.8	0.9	0.1	-1.13	-1.18	1	1	0	1200	1200	0
12/21/2024 11:52	50107	HARR_T3	10	11	1	0.57	0.99	0.42	0	0	0	0	0	0	0	0
12/21/2024 11:52	50105	HARR_T3	14	7	-7	3.21	6.95	3.74	0	0	0	0	0	0	0	0
12/21/2024 11:52	50202	HARR_T3	0	0	0	0	0	0	-1.51	-1.53	0	0	0	0	0	0
12/21/2024 11:52	50106	HARR_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
12/21/2024 11:52	50201	HARR_T3	1	1	0	6.4	6.7	0.3	0	0	0	0	0	0	0	0
12/21/2024 12:12	53502	EVIL_T2	0	11	11	0	0.27	0.27	0.19	0.22	1	1	0	600	600	0
12/21/2024 12:12	53501	EVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/21/2024 12:15	64203	KINZ_T1	0	4	4	0	0.28	0.28	-0.37	-0.3	1	1	0	600	600	0
12/21/2024 12:15	64204	KINZ_T1	1	16	15	1.1	0.34	-0.76	0	0	0	0	0	0	0	0
12/21/2024 12:19	52502	PROG_T2	0	0	0	0	0	0	0.57	0.51	0	0	0	0	0	0
12/21/2024 12:29	61302	EARL_T1	0	0	0	0	0	0	-0.41	-0.32	2	2	0	1800	1800	0
12/21/2024 12:31	61304	EARL_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	600	600	0
12/21/2024 12:31	64402	LAND_T2	0	0	0	0	0	0	-0.51	-0.55	1	1	0	600	600	0
12/21/2024 12:32	63305	GREE_T1	14	13	-1	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
12/21/2024 12:32	63302	GREE_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
12/21/2024 12:32	40101	HUNT_T2	416	436	20	0.89	0.74	-0.15	0	0	0	0	0	0	0	0
12/21/2024 12:33	52004	LING_T2	2	3	1	3.15	2.8	-0.35	0.08	0.05	0	0	0	0	0	0
12/21/2024 12:33	52002	LING_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/21/2024 12:34	55002	NEWP_T1	1	6	5	0.2	0.58	0.38	-0.32	-0.36	0	0	0	0	0	0
12/21/2024 12:34	57703	PAXT_T2	183	163	-20	0.39	0.28	-0.11	0	0	0	0	0	0	0	0
12/21/2024 12:34	63501	HEID_TBK1-2	33	35	2	0.24	0.29	0.05	-0.45	-0.47	1	1	0	900	900	0
12/21/2024 12:34	57704	PAXT_T2	4	4	0	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
12/21/2024 12:35	55002	NEWP_T1	1	6	5	0.2	0.58	0.38	0	0	0	0	0	0	0	0
12/21/2024 12:35	55001	NEWP_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	600	600	0
12/21/2024 12:36	55001	NEWP_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	600	600	0
12/21/2024 12:36	55002	NEWP_T1	1	6	5	0.2	0.58	0.38	-0.18	-0.2	0	0	0	0	0	0
12/21/2024 12:40	44301	BEAV_T2	2	5	3	2.25	1.8	-0.45	0	0	0	0	0	0	0	0
12/21/2024 12:41	52403	GRPA_T2	13	6	-7	0.6	0.23	-0.37	-0.17	-0.21	0	0	0	0	0	0
12/21/2024 12:41	52402	GRPA_T2	1	3	2	0.2	0.5	0.3	0	0	0	0	0	0	0	0
12/21/2024 12:42	44301	BEAV_T2	2	5	3	2.25	1.8	-0.45	-0.82	-0.91	1	1	0	600	600	0
12/21/2024 12:42	61103	BERK_T5	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
12/21/2024 12:46	53502	EVIL_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 12:46	53501	EVIL_T2	0	1	1	0	0.2	0.2	-0.66	-0.58	0	0	0	0	0	0
12/21/2024 12:47	64203	KINZ_T1	4	0	-4	0.73	0	-0.73	-0.38	-0.37	1	1	0	600	600	0
12/21/2024 12:47	63501	HEID_TBK1-2	32	35	3	0.24	0.28	0.04	-0.95	-0.96	2	2	0	1800	1800	0
12/21/2024 12:47	64204	KINZ_T1	16	3	-13	0.32	0.5	0.18	0	0	0	0	0	0	0	0
12/21/2024 12:47	52001	LING_T1	0	0	0	0	0	0	-0.91	-0.89	0	0	0	0	0	0
12/21/2024 12:47	54506	ENOL_T2	0	0	0	0	0	0	0.29	0.22	0	1	1	0	600	600
12/21/2024 12:47	64202	KINZ_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
12/21/2024 12:48	63501	HEID_TBK1-2	32	35	3	0.24	0.28	0.04	-0.47	-0.48	1	1	0	900	900	0
12/21/2024 12:50	63501	HEID_TBK1-2	32	35	3	0.24	0.28	0.04	-0.47	-0.48	1	1	0	900	900	0
12/21/2024 13:01	61103	BERK_T5	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
12/21/2024 13:01	61305	EARL_T1	0	0	0	0	0	0	-0.68	-0.6	2	2	0	1500	1500	0
12/21/2024 13:05	44201	POIN_T1	0	0	0	0	0	0	-1.64	-1.68	1	1	0	1200	1200	0
12/21/2024 13:08	67702	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 13:08	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 13:09	67702	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 13:09	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 13:11	67702	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 13:11	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 13:20	51202	MTON_T2	0	0	0	0	0	0	-0.99	-0.99	1	1	0	1200	1200	0
12/21/2024 13:26	44301	BEAV_T2	3	1	-2	1.87	3.7	1.83	-0.92	-0.93	1	1	0	600	600	0
12/21/2024 13:32	42903	MIDD_T2	2	0	-2	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/21/2024 13:32	42902	MIDD_T2	0	0	0	0	0	0	-1.28	-1.27	1	1	0	600	600	0
12/21/2024 13:33	42903	MIDD_T2	2	0	-2	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/21/2024 13:33	42902	MIDD_T2	0	0	0	0	0	0	-1.28	-1.27	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/21/2024 13:36	42902	MIDD_T2	0	0	0	0	0	0	-1.28	-1.27	1	1	0	600	600	0
12/21/2024 13:36	42903	MIDD_T2	2	0	-2	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/21/2024 13:38	65205	PRIN_T1	1	2	1	1.2	2.75	1.55	0	0	0	0	0	0	0	0
12/21/2024 13:40	61103	BERK_T5	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
12/21/2024 13:42	63201	MGTN_T2	0	0	0	0	0	0	0.32	0.38	1	1	0	600	600	0
12/21/2024 13:44	53501	EVIL_T2	0	2	2	0	0.2	0.2	-0.67	-0.68	0	0	0	0	0	0
12/21/2024 13:44	53502	EVIL_T2	0	11	11	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 13:45	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 13:47	63201	MGTN_T2	0	0	0	0	0	0	0.32	0.38	1	1	0	600	600	0
12/21/2024 13:48	63306	GREE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/21/2024 13:48	63305	GREE_T1	11	11	0	0.31	0.27	-0.04	-5.21	-5.24	2	2	0	1800	1800	0
12/21/2024 13:53	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 13:55	67702	WERN_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
12/21/2024 13:55	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 13:58	46204	DANV_T2	11	43	32	0.54	0.43	-0.11	0	0	0	0	0	0	0	0
12/21/2024 13:58	46206	DANV_T2	5	16	11	0.2	0.5	0.3	0	0	0	0	0	0	0	0
12/21/2024 13:58	46203	DANV_T2	0	0	0	0	0	0	-3.58	-3.51	0	0	0	0	0	0
12/21/2024 14:02	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 14:02	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
12/21/2024 14:02	64204	KINZ_T1	3	15	12	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
12/21/2024 14:11	44301	BEAV_T2	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
12/21/2024 14:13	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
12/21/2024 14:13	53901	HALI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/21/2024 14:13	53903	HALI_T2	2	2	0	1	1.25	0.25	-0.16	-0.17	0	0	0	0	0	0
12/21/2024 14:15	53501	EVIL_T2	1	2	1	0.1	0.6	0.5	-0.68	-0.65	0	0	0	0	0	0
12/21/2024 14:17	20603	GRWO_T2	1	5	4	0.1	0.18	0.08	-0.49	-0.49	1	1	0	900	900	0
12/21/2024 14:25	46204	DANV_T2	43	21	-22	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/21/2024 14:25	46203	DANV_T2	0	0	0	0	0	0	-1.75	-1.73	0	0	0	0	0	0
12/21/2024 14:25	46206	DANV_T2	16	9	-7	0.67	0.95	0.28	0	0	0	0	0	0	0	0
12/21/2024 14:28	53901	HALI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/21/2024 14:28	53903	HALI_T2	2	2	0	0.95	1.25	0.3	-0.17	-0.16	0	0	0	0	0	0
12/21/2024 14:28	53902	HALI_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
12/21/2024 14:31	13503	MCMI_T2	0	0	0	0	0	0	-0.56	-0.55	0	0	0	0	0	0
12/21/2024 14:37	44501	HAMI_T2	10	17	7	0.17	0.19	0.02	0	0	0	0	0	0	0	0
12/21/2024 14:37	44502	HAMI_T2	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
12/21/2024 14:37	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 15:04	64401	LAND_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 15:04	64403	LAND_T1	0	0	0	0	0	0	-1.84	-1.95	1	1	0	900	900	0
12/21/2024 15:06	52002	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/21/2024 15:06	52004	LING_T2	2	2	0	3.05	2.85	-0.2	0.06	0.05	0	0	0	0	0	0
12/21/2024 16:02	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	-0.42	-0.37	1	1	0	900	900	0
12/21/2024 16:17	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	-0.74	-0.9	2	2	0	1800	1800	0
12/21/2024 17:51	40101	HUNT_T2	487	574	87	1.8	1.92	0.12	-1.77	-1.15	0	0	0	0	0	0
12/21/2024 18:31	46204	DANV_T2	96	111	15	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
12/21/2024 18:31	46206	DANV_T2	47	35	-12	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
12/21/2024 18:31	46203	DANV_T2	3	4	1	0.2	0.2	0	-2.46	-2.46	0	0	0	0	0	0
12/21/2024 18:35	52002	LING_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/21/2024 18:35	52004	LING_T2	2	2	0	1.95	2.15	0.2	-0.39	-0.38	0	0	0	0	0	0
12/21/2024 18:38	13503	MCMI_T2	9	1	-8	0.58	0	-0.58	-0.34	-0.35	0	0	0	0	0	0
12/21/2024 18:41	44301	BEAV_T2	6	7	1	1.55	1.8	0.25	0	0	0	0	0	0	0	0
12/21/2024 18:41	53902	HALI_T2	1	1	0	4.7	4.9	0.2	0	0	0	0	0	0	0	0
12/21/2024 18:41	53903	HALI_T2	2	2	0	0.8	0.5	-0.3	-0.23	-0.23	0	0	0	0	0	0
12/21/2024 18:42	40602	PIGR_T1	1	1	0	2.6	2.2	-0.4	0	0	0	0	0	0	0	0
12/21/2024 18:42	55001	NEWP_T1	0	0	0	0	0	0	-0.8	-0.76	1	1	0	600	600	0
12/21/2024 18:42	59202	THOM_T1	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
12/21/2024 18:42	55002	NEWP_T1	4	4	0	0.73	0.55	-0.18	0	0	0	0	0	0	0	0
12/21/2024 18:42	40603	PIGR_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
12/21/2024 18:43	61001	DONV_T1	0	0	0	0	0	0	0.06	-0.08	0	0	0	0	0	0
12/21/2024 18:44	52002	LING_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/21/2024 18:44	44502	HAMI_T2	1	2	1	2.4	1.9	-0.5	0	0	0	0	0	0	0	0
12/21/2024 18:44	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 18:44	20603	GRWO_T2	6	8	2	1.1	1.13	0.03	0	0	0	0	0	0	0	0
12/21/2024 18:44	52004	LING_T2	2	2	0	1.95	2.15	0.2	-0.38	-0.39	0	0	0	0	0	0
12/21/2024 18:44	44501	HAMI_T2	3	4	1	0.17	0.33	0.16	0	0	0	0	0	0	0	0
12/21/2024 18:44	20603	GRWO_T2	13	19	6	0.25	0.34	0.09	-0.39	-0.41	1	1	0	900	900	0
12/21/2024 18:44	44503	HAMI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 18:45	44501	HAMI_T2	4	3	-1	0.43	0	-0.43	0	0	0	0	0	0	0	0
12/21/2024 18:45	67703	WERN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/21/2024 18:45	44502	HAMI_T2	2	1	-1	1.8	1.8	0	0	0	0	0	0	0	0	0
12/21/2024 18:45	44503	HAMI_T2	0	4	4	0	0.2	0.2	-0.64	-0.69	0	0	0	0	0	0
12/21/2024 18:45	67702	WERN_T2	1	1	0	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
12/21/2024 18:46	55002	NEWP_T1	4	4	0	0.53	0.58	0.05	-0.13	-0.16	0	0	0	0	0	0
12/21/2024 18:46	53501	EVIL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
12/21/2024 18:46	44201	PCIN_T1	0	0	0	0	0	0	-1.53	-1.49	1	1	0	1200	1200	0
12/21/2024 18:46	63501	HEID_TBK1-2	0	1	1	0	0	0	-0.38	-0.44	1	1	0	900	900	0
12/21/2024 18:46	53502	EVIL_T2	0	0	0	0	0	0	-0.37	-0.46	2	2	0	1200	1200	0
12/21/2024 18:46	63202	MGTN_T2	1	1	0	0.2	0	-0.2	0.43	0.44	0	0	0	0	0	0
12/21/2024 18:47	55002	NEWP_T1	4	4	0	0.53	0.58	0.05	-0.13	-0.16	0	0	0	0	0	0
12/21/2024 18:48	67401	WAKE_T2	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
12/21/2024 18:49	55001	NEWP_T1	0	0	0	0	0	0	-0.8	-0.76	1	1	0	600	600	0
12/21/2024 18:49	54506	ENOL_T2	0	0	0	0	0	0	-0.93	-0.99	0	0	0	0	0	0
12/21/2024 18:49	67702	WERN_T2	1	1	0	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
12/21/2024 18:49	55002	NEWP_T1	4	4	0	0.53	0.58	0.05	0	0	0	0	0	0	0	0
12/21/2024 18:49	67703	WERN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/21/2024 18:49	44301	BEAV_T2	7	5	-2	1.61	5.8	4.19	-1.32	-1.37	1	1	0	600	600	0
12/21/2024 18:50	67703	WERN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/21/2024 18:50	67702	WERN_T2	1	1	0	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
12/21/2024 18:50	58102	NEKI_T1	1	1	0	0.7	0.8	0.1	-1.11	-1.11	1	1	0	1200	1200	0
12/21/2024 18:50	42903	MIDD_T2	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
12/21/2024 18:50	44301	BEAV_T2	7	5	-2	1.61	5.8	4.19	0	0	0	0	0	0	0	0
12/21/2024 18:50	61103	BERK_T5	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
12/21/2024 18:50	42902	MIDD_T2	2	5	3	0.8	0.78	-0.02	0	0	0	0	0	0	0	0
12/21/2024 18:51	50202	HARR_T3	0	0	0	0	0	0	-1.53	-1.47	0	0	0	0	0	0
12/21/2024 18:51	42903	MIDD_T2	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
12/21/2024 18:51	50106	HARR_T3	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
12/21/2024 18:51	52004	LING_T2	2	2	0	2.1	2.15	0.05	0	0	0	0	0	0	0	0
12/21/2024 18:51	67402	WAKE_T2	0	0	0	0	0	0	-0.29	-0.29	1	1	0	600	600	0
12/21/2024 18:51	50105	HARR_T3	7	8	1	6.03	7.1	1.07	0	0	0	0	0	0	0	0
12/21/2024 18:51	52002	LING_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/21/2024 18:51	42902	MIDD_T2	2	5	3	0.8	0.78	-0.02	-1.17	-1.16	1	1	0	600	600	0
12/21/2024 18:51	50201	HARR_T3	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
12/21/2024 18:52	43304	WATS_T2	25	24	-1	0.65	0.33	-0.32	0	0	1	1	0	600	600	0
12/21/2024 18:52	43301	WATS_T2	2	3	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
12/21/2024 18:52	67702	WERN_T2	1	1	0	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
12/21/2024 18:52	46206	DANV_T2	35	12	-23	0.36	0.32	-0.04	0	0	0	0	0	0	0	0
12/21/2024 18:52	52502	PROG_T2	0	0	0	0	0	0	1.46	1.39	0	0	0	0	0	0
12/21/2024 18:52	67703	WERN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/21/2024 18:52	46204	DANV_T2	111	44	-67	0.62	0.33	-0.29	0	0	0	0	0	0	0	0
12/21/2024 18:52	46203	DANV_T2	0	8	8	0	0.22	0.22	-2.49	-2.45	0	0	0	0	0	0
12/21/2024 18:52	64101	REFR_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
12/21/2024 18:53	63305	GREE_T1	0	0	0	0	0	0	-2.61	-2.61	1	1	0	900	900	0
12/21/2024 18:53	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 18:53	61103	BERK_T5	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
12/21/2024 18:54	67703	WERN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/21/2024 18:54	52204	DEVO_T2	7	7	0	1.44	0.97	-0.47	0	0	0	0	0	0	0	0
12/21/2024 18:54	63501	HEID_TBK1-2	0	1	1	0	0	0	-0.44	-0.43	1	1	0	900	900	0
12/21/2024 18:54	55002	NEWP_T1	4	4	0	0.53	0.58	0.05	-0.16	-0.12	0	0	0	0	0	0
12/21/2024 18:54	67702	WERN_T2	1	1	0	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
12/21/2024 18:54	52202	DEVO_T2	0	1	1	0	0	0	-3.14	-3.16	0	0	0	0	0	0
12/21/2024 18:54	64101	REFR_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
12/21/2024 18:54	52001	LING_T1	0	0	0	0	0	0	-0.88	-0.85	0	0	0	0	0	0
12/21/2024 18:55	64402	LAND_T2	0	0	0	0	0	0	-0.43	-0.43	1	1	0	600	600	0
12/21/2024 18:55	42903	MIDD_T2	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
12/21/2024 18:55	57703	PAXT_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
12/21/2024 18:55	64404	LAND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 18:55	42902	MIDD_T2	2	5	3	0.8	0.78	-0.02	-2.32	-2.38	2	2	0	1200	1200	0
12/21/2024 18:55	57704	PAXT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 18:55	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 18:55	40101	HUNT_T2	491	507	16	2.3	2.05	-0.25	0	0	0	0	0	0	0	0
12/21/2024 18:56	58402	MORO_T1	4	3	-1	0.48	0.2	-0.28	-0.66	-0.68	4	4	0	2250	2250	0
12/21/2024 18:56	58401	MORO_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
12/21/2024 18:56	64101	REFR_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
12/21/2024 18:57	61303	EARL_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/21/2024 18:57	64403	LAND_T1	0	0	0	0	0	0	-1.9	-1.93	1	1	0	900	900	0
12/21/2024 18:57	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 18:57	51204	MTON_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
12/21/2024 18:57	63305	GREE_T1	0	0	0	0	0	0	-2.61	-2.61	1	1	0	900	900	0
12/21/2024 18:57	61001	DONV_T1	0	0	0	0	0	0	-0.04	-0.07	0	0	0	0	0	0
12/21/2024 18:57	66505	SMAN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/21/2024 18:57	61302	EARL_T1	0	0	0	0	0	0	-0.21	-0.23	2	2	0	1800	1800	0
12/21/2024 18:58	53501	EVIL_T2	1	1	0	0.8	0.8	0	-0.51	-0.54	0	0	0	0	0	0
12/21/2024 18:58	51204	MTON_T2	0	0	0	0	0	0	-0.74	-0.74	1	1	0	900	900	0
12/21/2024 18:58	52403	GRPA_T2	2	3	1	0.5	0	-0.5	-0.59	-0.6	0	0	0	0	0	0
12/21/2024 18:58	52401	GRPA_T2	8	5	-3	0.56	0	-0.56	0	0	0	0	0	0	0	0
12/21/2024 18:58	52404	GRPA_T2	3	4	1	0.57	0.2	-0.37	0	0	0	0	0	0	0	0
12/21/2024 18:58	63501	HEID_TBK1-2	0	1	1	0	0	0	-0.44	-0.43	1	1	0	900	900	0
12/21/2024 18:58	52402	GRPA_T2	0	11	11	0	0.38	0.38	0	0	0	0	0	0	0	0
12/21/2024 18:58	58202	NEWV_T1	0	0	0	0	0	0	-0.2	-0.31	0	0	0	0	0	0
12/21/2024 18:58	64403	LAND_T1	0	0	0	0	0	0	-1.9	-1.93	1	1	0	900	900	0
12/21/2024 18:59	44301	BEAV_T2	7	5	-2	1.61	5.8	4.19	-1.37	-1.34	1	1	0	600	600	0
12/21/2024 18:59	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/21/2024 18:59	67703	WERN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/21/2024 18:59	64204	KINZ_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
12/21/2024 18:59	67702	WERN_T2	1	1	0	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
12/21/2024 18:59	55002	NEWP_T1	4	4	0	0.53	0.58	0.05	-0.16	-0.12	0	0	0	0	0	0
12/21/2024 18:59	64203	KINZ_T1	0	0	0	0	0	0	-0.98	-0.95	2	2	0	900	900	0
12/21/2024 18:59	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 19:00	52502	PROG_T2	0	0	0	0	0	0	0.73	0.69	0	0	0	0	0	0
12/21/2024 19:00	63801	HEMP_T1	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
12/21/2024 19:00	63804	HEMP_T1	1	3	2	6.6	6.6	0	0	0	0	0	0	0	0	0
12/21/2024 19:00	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 19:01	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 19:01	64204	KINZ_T1	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/21/2024 19:01	52502	PROG_T2	0	0	0	0	0	0	0.73	0.69	0	0	0	0	0	0
12/21/2024 19:01	64202	KINZ_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/21/2024 19:01	64101	REFR_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
12/21/2024 19:01	63501	HEID_TBK1-2	0	1	1	0	0	0	-0.44	-0.43	1	1	0	900	900	0
12/21/2024 19:02	52004	LING_T2	2	2	0	2.15	2.1	-0.05	-0.39	-0.34	0	0	0	0	0	0
12/21/2024 19:02	52002	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/21/2024 19:02	51202	MTON_T2	0	0	0	0	0	0	-0.93	-0.91	1	1	0	1200	1200	0
12/21/2024 19:03	64101	REFR_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
12/21/2024 19:05	52502	PROG_T2	0	0	0	0	0	0	0.73	0.69	0	0	0	0	0	0
12/21/2024 19:05	63302	GREE_T1	0	0	0	0	0	0	-0.42	-0.47	0	0	0	0	0	0
12/21/2024 19:05	61304	EARL_T1	0	0	0	0	0	0	-0.78	-0.81	1	1	0	600	600	0
12/21/2024 19:06	53902	HALI_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
12/21/2024 19:06	53903	HALI_T2	2	2	0	0.4	0.6	0.2	-0.23	-0.22	0	0	0	0	0	0
12/21/2024 19:28	65205	PRIN_T1	2	2	0	2.1	0.6	-1.5	0	0	0	0	0	0	0	0
12/21/2024 23:47	63201	MGTN_T2	0	0	0	0	0	0	-0.23	-0.24	1	1	0	600	600	0
12/21/2024 23:47	63202	MGTN_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/22/2024 8:04	63401	HONY_T1	0	0	0	0	0	0	0.04	0.01	1	1	0	600	600	0
12/22/2024 8:07	57702	PAXT_T1	12	14	2	0.72	1.01	0.29	-0.47	-0.46	0	0	0	0	0	0
12/22/2024 8:15	63401	HONY_T1	0	0	0	0	0	0	0.01	0	1	1	0	600	600	0
12/22/2024 8:21	52502	PROG_T2	0	0	0	0	0	0	-0.17	-0.14	1	1	0	900	900	0
12/22/2024 8:21	52503	PROG_T2	0	0	0	0	0	0	0.65	0.67	0	0	0	0	0	0
12/22/2024 8:28	52502	PROG_T2	0	0	0	0	0	0	-0.17	-0.14	1	1	0	900	900	0
12/22/2024 8:36	67702	WERN_T2	207	39	-168	0.95	1.3	0.35	0	0	0	0	0	0	0	0
12/22/2024 8:36	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 8:37	53902	HALI_T2	1	1	0	4.5	4.8	0.3	0	0	0	0	0	0	0	0
12/22/2024 8:37	53903	HALI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
12/22/2024 8:37	53901	HALI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 8:38	67702	WERN_T2	207	39	-168	0.95	1.3	0.35	0	0	0	0	0	0	0	0
12/22/2024 8:38	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 8:40	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 8:40	67702	WERN_T2	207	39	-168	0.95	1.3	0.35	0	0	0	0	0	0	0	0
12/22/2024 8:44	52404	GRPA_T2	25	49	24	0.52	0.53	0.01	0	0	0	0	0	0	0	0
12/22/2024 8:44	53501	EVIL_T2	1	3	2	0.2	0.5	0.3	-0.43	-0.44	0	0	0	0	0	0
12/22/2024 8:44	52402	GRPA_T2	34	18	-16	0.52	0.53	0.01	0	0	0	0	0	0	0	0
12/22/2024 8:44	52403	GRPA_T2	5	9	4	0.42	0.29	-0.13	0	0	0	0	0	0	0	0
12/22/2024 8:44	11102	EGYP_T1	10	10	0	1.33	0.86	-0.47	0	0	0	0	0	0	0	0
12/22/2024 8:44	11104	EGYP_T1	12	26	14	0.35	0.35	0	0	0	0	0	0	0	0	0
12/22/2024 8:44	52401	GRPA_T2	1	0	-1	0.5	0	-0.5	-0.49	-0.46	0	0	0	0	0	0
12/22/2024 8:44	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 8:47	63401	HONY_T1	0	0	0	0	0	0	0.01	-0.01	1	1	0	600	600	0
12/22/2024 8:47	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/22/2024 8:47	52502	PROG_T2	0	0	0	0	0	0	-0.14	0.76	1	0	-1	900	0	-900
12/22/2024 8:52	64902	MILL_T2	0	0	0	0	0	0	-1.14	-1.13	1	1	0	900	900	0
12/22/2024 8:53	55002	NEWP_T1	4	4	0	0.25	0.23	-0.02	-0.13	-0.12	0	0	0	0	0	0
12/22/2024 8:53	55001	NEWP_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/22/2024 8:54	67702	WERN_T2	39	2	-37	0.45	1.3	0.85	0	0	0	0	0	0	0	0
12/22/2024 8:55	67702	WERN_T2	39	2	-37	0.45	1.3	0.85	0	0	0	0	0	0	0	0
12/22/2024 8:56	44301	BEAV_T2	2	2	0	3.65	5.8	2.15	0	0	0	0	0	0	0	0
12/22/2024 8:59	53501	EVIL_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
12/22/2024 8:59	53502	EVIL_T2	0	12	12	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
12/22/2024 9:00	10705	CATA_T2	0	0	0	0	0	0	-2.05	-2.05	1	1	0	900	900	0
12/22/2024 9:00	52502	PROG_T2	0	0	0	0	0	0	0.76	0.75	0	0	0	0	0	0
12/22/2024 9:00	40503	CRES_T1	10	2	-8	0.53	0	-0.53	0	0	0	0	0	0	0	0
12/22/2024 9:00	40504	CRES_T1	14	13	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
12/22/2024 9:04	54201	PENN_T1	61	99	38	0.36	0.39	0.03	-1.4	-1.4	0	0	0	0	0	0
12/22/2024 9:04	54203	PENN_T1	18	21	3	0.88	0.86	-0.02	0	0	0	0	0	0	0	0
12/22/2024 9:04	14201	EALL_T1	0	0	0	0	0	0	0.65	0.69	0	0	0	0	0	0
12/22/2024 9:05	54201	PENN_T1	61	99	38	0.36	0.39	0.03	-1.4	-1.4	0	0	0	0	0	0
12/22/2024 9:05	54203	PENN_T1	18	21	3	0.88	0.86	-0.02	0.08	0.07	0	0	0	0	0	0
12/22/2024 9:05	56501	ROCK_T2	3	5	2	0.1	0.2	0.1	-1.42	-1.41	0	0	0	0	0	0
12/22/2024 9:06	56501	ROCK_T2	3	5	2	0.1	0.2	0.1	-1.41	-1.49	0	0	0	0	0	0
12/22/2024 9:07	54201	PENN_T1	61	99	38	0.36	0.39	0.03	0	0	0	0	0	0	0	0
12/22/2024 9:07	54203	PENN_T1	18	21	3	0.88	0.86	-0.02	0.07	0.12	0	0	0	0	0	0
12/22/2024 9:08	67503	WEWI_T2	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
12/22/2024 9:08	51201	MTON_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
12/22/2024 9:10	67702	WERN_T2	1	2	1	1.3	0.4	-0.9	0	0	0	0	0	0	0	0
12/22/2024 9:11	46204	DANV_T2	124	120	-4	1.62	1.2	-0.42	0	0	0	0	0	0	0	0
12/22/2024 9:11	53501	EVIL_T2	3	1	-2	0.4	0.1	-0.3	-0.38	-0.4	0	0	0	0	0	0
12/22/2024 9:11	53502	EVIL_T2	0	12	12	0	0.91	0.91	0	0	0	0	0	0	0	0
12/22/2024 9:11	67702	WERN_T2	1	2	1	1.3	0.4	-0.9	0	0	0	0	0	0	0	0
12/22/2024 9:11	46206	DANV_T2	29	18	-11	0.65	0.54	-0.11	0	0	0	0	0	0	0	0
12/22/2024 9:11	46203	DANV_T2	10	0	-10	0.31	0	-0.31	-2.34	-2.39	0	0	0	0	0	0
12/22/2024 9:14	53501	EVIL_T2	3	1	-2	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
12/22/2024 9:14	53502	EVIL_T2	0	12	12	0	0.91	0.91	0	0	0	0	0	0	0	0
12/22/2024 9:18	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.47	-0.46	1	1	0	900	900	0
12/22/2024 9:20	55002	NEWP_T1	3	3	0	0.2	0.33	0.13	-0.12	-0.13	0	0	0	0	0	0
12/22/2024 9:20	64101	REFR_T1	0	0	0	0	0	0	0.17	0.13	0	0	0	0	0	0
12/22/2024 9:21	67702	WERN_T2	2	1	-1	0.95	0.4	-0.55	0	0	0	0	0	0	0	0
12/22/2024 9:21	64101	REFR_T1	0	0	0	0	0	0	0.34	0.26	0	0	0	0	0	0
12/22/2024 9:21	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 9:21	58302	NOTT_T1	0	0	0	0	0	0	-0.81	-0.79	1	1	0	900	900	0
12/22/2024 9:22	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 9:22	67702	WERN_T2	2	1	-1	0.95	0.4	-0.55	0	0	0	0	0	0	0	0
12/22/2024 9:22	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 9:23	64101	REFR_T1	0	0	0	0	0	0	0.26	0.3	0	0	0	0	0	0
12/22/2024 9:23	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 9:23	67702	WERN_T2	2	1	-1	0.95	0.4	-0.55	0	0	0	0	0	0	0	0
12/22/2024 9:24	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 9:24	64101	REFR_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
12/22/2024 9:24	67702	WERN_T2	2	1	-1	0.95	0.4	-0.55	0	0	0	0	0	0	0	0
12/22/2024 9:25	67702	WERN_T2	2	1	-1	0.95	0.4	-0.55	0	0	0	0	0	0	0	0
12/22/2024 9:25	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 9:26	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 9:26	67702	WERN_T2	2	1	-1	0.95	0.4	-0.55	0	0	0	0	0	0	0	0
12/22/2024 9:29	53903	HALI_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/22/2024 9:29	64101	REFR_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
12/22/2024 9:29	53902	HALI_T2	1	1	0	4.8	4.9	0.1	-0.81	-0.83	0	0	0	0	0	0
12/22/2024 9:30	42902	MIDD_T2	9	2	-7	0.58	0	-0.58	-1.23	-1.38	0	0	0	0	0	0
12/22/2024 9:30	42903	MIDD_T2	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
12/22/2024 9:31	63302	GREE_T1	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
12/22/2024 9:31	63305	GREE_T1	4	7	3	0.5	0.53	0.03	0	0	0	0	0	0	0	0
12/22/2024 9:31	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 9:32	53903	HALI_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
12/22/2024 9:32	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/22/2024 9:32	53902	HALI_T2	1	1	0	4.9	5.1	0.2	-1.62	-1.66	0	0	0	0	0	0
12/22/2024 9:32	42902	MIDD_T2	9	2	-7	0.58	0	-0.58	0	0	0	0	0	0	0	0
12/22/2024 9:32	42903	MIDD_T2	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
12/22/2024 9:33	53902	HALI_T2	1	1	0	4.9	5.1	0.2	-0.81	-0.83	0	0	0	0	0	0
12/22/2024 9:33	53903	HALI_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
12/22/2024 9:33	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/22/2024 9:45	40603	PIGR_T1	5	10	5	0.72	0.74	0.02	0	0	0	0	0	0	0	0
12/22/2024 9:45	52403	GRPA_T2	62	45	-17	0.49	0.5	0.01	0	0	0	0	0	0	0	0
12/22/2024 9:45	52404	GRPA_T2	6	2	-4	0.28	0	-0.28	0	0	0	0	0	0	0	0
12/22/2024 9:45	40602	PIGR_T1	1	2	1	3.8	3.5	-0.3	0	0	0	0	0	0	0	0
12/22/2024 9:45	52402	GRPA_T2	3	3	0	0.67	0.25	-0.42	-0.78	-0.8	0	0	0	0	0	0
12/22/2024 9:45	40601	PIGR_T1	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
12/22/2024 9:47	55002	NEWP_T1	1	4	3	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
12/22/2024 9:47	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
12/22/2024 9:47	55001	NEWP_T1	0	0	0	0	0	0	-0.74	-0.78	1	1	0	600	600	0
12/22/2024 9:47	52401	GRPA_T2	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
12/22/2024 9:47	63801	HEMP_T1	1	1	0	0.1	0.1	0	-0.09	-0.03	0	0	0	0	0	0
12/22/2024 9:47	52404	GRPA_T2	6	2	-4	0.28	0	-0.28	0	0	0	0	0	0	0	0
12/22/2024 9:47	52402	GRPA_T2	3	3	0	0.67	0.25	-0.42	0	0	0	0	0	0	0	0
12/22/2024 9:47	52403	GRPA_T2	62	45	-17	0.49	0.5	0.01	0	0	0	0	0	0	0	0
12/22/2024 9:47	63803	HEMP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/22/2024 9:52	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 9:52	67702	WERN_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
12/22/2024 9:55	44302	BEAV_T2	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
12/22/2024 9:55	44301	BEAV_T2	1	3	2	6	2.35	-3.65	0	0	0	0	0	0	0	0
12/22/2024 9:56	45502	DERR_T2	8	7	-1	0.59	0.64	0.05	0	0	0	0	0	0	0	0
12/22/2024 9:56	45501	DERR_T2	0	3	3	0	0	0	-0.58	-0.55	2	2	0	1800	1800	0
12/22/2024 9:57	44302	BEAV_T2	1	3	2	0.1	0.27	0.17	0.27	0.28	0	0	0	0	0	0
12/22/2024 9:57	44301	BEAV_T2	1	3	2	6	2.35	-3.65	0	0	0	0	0	0	0	0
12/22/2024 9:58	44301	BEAV_T2	1	3	2	6	2.35	-3.65	0	0	0	0	0	0	0	0
12/22/2024 9:58	44302	BEAV_T2	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
12/22/2024 9:58	54506	ENOL_T2	0	0	0	0	0	0	0.21	0.23	1	0	-1	600	0	-600
12/22/2024 10:00	64201	KINZ_T1	0	0	0	0	0	0	-0.65	-0.66	3	3	0	1500	1500	0
12/22/2024 10:00	64202	KINZ_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/22/2024 10:00	64204	KINZ_T1	22	64	42	0.36	1	0.64	0	0	0	0	0	0	0	0
12/22/2024 10:00	64203	KINZ_T1	4	6	2	0.25	0.55	0.3	0	0	0	0	0	0	0	0
12/22/2024 10:01	64202	KINZ_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/22/2024 10:01	64203	KINZ_T1	4	6	2	0.25	0.55	0.3	0	0	0	0	0	0	0	0
12/22/2024 10:01	64204	KINZ_T1	22	64	42	0.36	1	0.64	0	0	0	0	0	0	0	0
12/22/2024 10:01	51204	MTON_T2	0	0	0	0	0	0	-0.7	-0.71	1	1	0	900	900	0
12/22/2024 10:01	63501	HEID_TBK1-2	14	9	-5	0.14	0.16	0.02	-0.46	-0.43	1	1	0	900	900	0
12/22/2024 10:02	64204	KINZ_T1	22	64	42	0.36	1	0.64	0	0	0	0	0	0	0	0
12/22/2024 10:02	55002	NEWP_T1	2	5	3	0.45	0.88	0.43	0	0	0	0	0	0	0	0
12/22/2024 10:02	64202	KINZ_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/22/2024 10:02	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 10:02	64203	KINZ_T1	4	6	2	0.25	0.55	0.3	-0.35	-0.24	1	1	0	600	600	0
12/22/2024 10:03	63501	HEID_TBK1-2	14	9	-5	0.14	0.16	0.02	-0.46	-0.43	1	1	0	900	900	0
12/22/2024 10:04	55001	NEWP_T1	0	0	0	0	0	0	-0.78	-0.77	1	1	0	600	600	0
12/22/2024 10:04	63501	HEID_TBK1-2	14	9	-5	0.14	0.16	0.02	-0.46	-0.43	1	1	0	900	900	0
12/22/2024 10:04	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 10:04	64202	KINZ_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/22/2024 10:04	55002	NEWP_T1	2	5	3	0.45	0.88	0.43	0	0	0	0	0	0	0	0
12/22/2024 10:04	64203	KINZ_T1	4	6	2	0.25	0.55	0.3	0	0	0	0	0	0	0	0
12/22/2024 10:04	64204	KINZ_T1	22	64	42	0.36	1	0.64	0	0	0	0	0	0	0	0
12/22/2024 10:05	64203	KINZ_T1	4	6	2	0.25	0.55	0.3	0	0	0	0	0	0	0	0
12/22/2024 10:05	64202	KINZ_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/22/2024 10:05	64204	KINZ_T1	22	64	42	0.36	1	0.64	0	0	0	0	0	0	0	0
12/22/2024 10:05	64201	KINZ_T1	0	0	0	0	0	0	-0.65	-0.66	3	3	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/22/2024 10:06	58202	NEWV_T1	0	0	0	0	0	0	-0.19	-0.27	0	0	0	0	0	0
12/22/2024 10:07	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
12/22/2024 10:08	44201	POIN_T1	46	0	-46	0.23	0	-0.23	-1.87	-1.86	1	1	0	1200	1200	0
12/22/2024 10:10	40201	BEGA_T2	9	20	11	0.64	1.3	0.66	0	0	0	0	0	0	0	0
12/22/2024 10:17	55002	NEWP_T1	4	4	0	0.63	1.05	0.42	-0.13	-0.1	0	0	0	0	0	0
12/22/2024 10:17	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 10:18	64204	KINZ_T1	38	66	28	0.43	1.05	0.62	0	0	0	0	0	0	0	0
12/22/2024 10:18	64203	KINZ_T1	4	6	2	0.55	0.83	0.28	-0.24	-0.31	1	1	0	600	600	0
12/22/2024 10:18	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 10:20	65702	RVIL_T2	0	5	5	0	0.14	0.14	167.92	167.92	0	0	0	0	0	0
12/22/2024 10:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 10:25	55105	WERT_T1	0	0	0	0	0	0	-0.34	-0.34	1	1	0	900	900	0
12/22/2024 10:27	61302	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/22/2024 10:27	61304	EARL_T1	0	0	0	0	0	0	-0.83	-0.84	1	1	0	600	600	0
12/22/2024 10:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
12/22/2024 10:30	13503	MCMI_T2	8	9	1	0.63	0	-0.63	-0.23	-0.26	0	0	0	0	0	0
12/22/2024 10:31	13503	MCMI_T2	8	9	1	0.63	0	-0.63	-0.23	-0.26	0	0	0	0	0	0
12/22/2024 10:31	63401	HONY_T1	0	0	0	0	0	0	-0.01	-0.03	1	1	0	600	600	0
12/22/2024 10:31	66503	SMAN_T2	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
12/22/2024 10:32	65901	SAKR_T2	1	1	0	10	10	0	0	0	0	0	0	0	0	0
12/22/2024 10:32	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 10:32	65903	SAKR_T2	0	0	0	0	0	0	-2.02	-2	6	6	0	4200	4200	0
12/22/2024 10:32	55002	NEWP_T1	4	2	-2	1.05	1.25	0.2	-0.1	-0.14	0	0	0	0	0	0
12/22/2024 10:33	55002	NEWP_T1	4	2	-2	1.05	1.25	0.2	-0.21	-0.28	0	0	0	0	0	0
12/22/2024 10:33	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 10:34	40101	HUNT_T2	642	576	-66	2.7	2.64	-0.06	0	0	0	0	0	0	0	0
12/22/2024 10:34	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 10:34	60502	NMAN_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
12/22/2024 10:34	55002	NEWP_T1	4	2	-2	1.05	1.25	0.2	-0.1	-0.14	0	0	0	0	0	0
12/22/2024 10:34	60501	NMAN_T2	3	8	5	0.37	0.21	-0.16	0	0	0	0	0	0	0	0
12/22/2024 10:35	65903	SAKR_T2	0	0	0	0	0	0	-1.01	-1	3	3	0	2100	2100	0
12/22/2024 10:35	65901	SAKR_T2	1	1	0	10	10	0	0	0	0	0	0	0	0	0
12/22/2024 10:37	60501	NMAN_T2	3	8	5	0.37	0.21	-0.16	0	0	0	0	0	0	0	0
12/22/2024 10:37	52503	PROG_T2	0	0	0	0	0	0	0.68	0.77	0	0	0	0	0	0
12/22/2024 10:37	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 10:38	44302	BEAV_T2	11	11	0	0.21	0.21	0	0.26	0.26	0	0	0	0	0	0
12/22/2024 10:38	44301	BEAV_T2	8	5	-3	0.69	1.48	0.79	0	0	0	0	0	0	0	0
12/22/2024 10:40	67401	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/22/2024 10:40	67402	WAKE_T2	0	0	0	0	0	0	-0.27	-0.24	1	1	0	600	600	0
12/22/2024 10:40	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
12/22/2024 10:42	10801	CHHI_T1	4	3	-1	1.08	0.95	-0.13	-1.9	-1.91	3	3	0	2100	2100	0
12/22/2024 10:44	42902	MIDD_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/22/2024 10:44	42901	MIDD_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/22/2024 10:44	52403	GRPA_T2	24	66	42	0.53	0.55	0.02	-0.17	-0.17	0	0	0	0	0	0
12/22/2024 10:44	42903	MIDD_T2	2	2	0	1.05	1.45	0.4	-0.86	-0.76	0	0	0	0	0	0
12/22/2024 10:44	52402	GRPA_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/22/2024 10:45	46204	DANV_T2	5	81	76	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
12/22/2024 10:45	46206	DANV_T2	0	11	11	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 10:45	53903	HALI_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
12/22/2024 10:45	53902	HALI_T2	1	1	0	4.8	5.3	0.5	0	0	0	0	0	0	0	0
12/22/2024 10:45	46203	DANV_T2	6	1	-5	0.33	0	-0.33	-2.48	-1.57	0	0	0	0	0	0
12/22/2024 10:45	53901	HALI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
12/22/2024 10:47	40901	JESH_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
12/22/2024 10:47	40902	JESH_T1	0	0	0	0	0	0	-2.48	-2.46	3	3	0	1800	1800	0
12/22/2024 10:50	44203	POIN_T2	0	2	2	0	0	0	-1.19	-1.17	2	2	0	2100	2100	0
12/22/2024 11:31	13503	MCMI_T2	0	2	2	0	0	0	-0.27	-0.3	0	0	0	0	0	0
12/22/2024 11:34	57704	PAXT_T2	10	3	-7	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
12/22/2024 11:34	57703	PAXT_T2	189	178	-11	0.7	0.36	-0.34	0	0	0	0	0	0	0	0
12/22/2024 11:41	50202	HARR_T3	0	1	1	0	0	0	-1.48	-1.48	0	0	0	0	0	0
12/22/2024 11:41	50105	HARR_T3	6	9	3	6.63	6.62	-0.01	0	0	0	0	0	0	0	0
12/22/2024 11:41	53501	EVIL_T2	2	2	0	0.4	0.55	0.15	-1.18	-1.16	0	0	0	0	0	0
12/22/2024 11:41	50201	HARR_T3	2	2	0	3.05	5.9	2.85	0	0	0	0	0	0	0	0
12/22/2024 11:41	50106	HARR_T3	3	1	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
12/22/2024 11:42	42701	AUGU_T1	4	3	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
12/22/2024 11:43	53501	EVIL_T2	2	2	0	0.4	0.55	0.15	-0.59	-0.58	0	0	0	0	0	0
12/22/2024 11:45	53501	EVIL_T2	1	2	1	0.9	0.65	-0.25	-0.59	-0.58	0	0	0	0	0	0
12/22/2024 11:46	53501	EVIL_T2	1	2	1	0.9	0.65	-0.25	-0.59	-0.58	0	0	0	0	0	0
12/22/2024 11:47	52004	LING_T2	2	2	0	3.2	3.3	0.1	0.08	0.09	0	0	0	0	0	0
12/22/2024 11:47	57303	MOAL_T2	1	1	0	7.6	7.3	-0.3	0	0	0	0	0	0	0	0
12/22/2024 11:47	57304	MOAL_T2	0	0	0	0	0	0	-0.47	-0.52	0	0	0	0	0	0
12/22/2024 11:48	64203	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 11:48	64204	KINZ_T1	70	70	0	1.65	1.48	-0.17	0	0	0	0	0	0	0	0
12/22/2024 11:48	43202	MVIL_T2	4	5	1	0.53	0.55	0.02	-0.54	-0.57	0	0	0	0	0	0
12/22/2024 11:48	43201	MVIL_T2	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/22/2024 11:48	63501	HEID_TBK1-2	25	36	11	0.2	0.33	0.13	0	0	0	0	0	0	0	0
12/22/2024 11:48	64202	KINZ_T1	2	1	-1	0.25	0	-0.25	0.81	0.83	0	0	0	0	0	0
12/22/2024 11:49	55001	NEWP_T1	1	2	1	0.4	0	-0.4	-0.27	-0.27	0	0	0	0	0	0
12/22/2024 11:49	55002	NEWP_T1	2	2	0	0.85	1.05	0.2	0	0	0	0	0	0	0	0
12/22/2024 11:50	55002	NEWP_T1	2	2	0	0.85	1.05	0.2	0	0	0	0	0	0	0	0
12/22/2024 11:50	55001	NEWP_T1	1	2	1	0.4	0	-0.4	-0.27	-0.27	0	0	0	0	0	0
12/22/2024 11:51	44301	BEAV_T2	4	1	-3	1.55	4.6	3.05	-0.73	-0.72	0	0	0	0	0	0
12/22/2024 11:51	48301	ORWI_T1	2	2	0	5	5.35	0.35	-0.95	-0.96	1	1	0	900	900	0
12/22/2024 11:51	66203	SISP_T2	1	1	0	1.7	0	-1.7	-0.53	-0.56	1	1	0	1200	1200	0
12/22/2024 11:51	44302	BEAV_T2	4	5	1	0.55	0.64	0.09	0	0	0	0	0	0	0	0
12/22/2024 11:51	66201	SISP_T2	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
12/22/2024 11:52	55001	NEWP_T1	1	2	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/22/2024 11:52	55002	NEWP_T1	2	2	0	0.85	1.05	0.2	-0.18	-0.16	0	0	0	0	0	0
12/22/2024 11:57	46205	DANV_T2	1	0	-1	1.8	0	-1.8	0	0	0	0	0	0	0	0
12/22/2024 11:57	46203	DANV_T2	1	4	3	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
12/22/2024 11:57	46206	DANV_T2	21	19	-2	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
12/22/2024 11:57	46204	DANV_T2	111	127	16	0.8	0.47	-0.33	-0.46	-0.49	1	1	0	1200	1200	0
12/22/2024 12:04	63501	HEID_TBK1-2	33	31	-2	0.32	0.27	-0.05	-0.35	-0.47	1	1	0	900	900	0
12/22/2024 12:04	58102	NEKI_T1	1	1	0	1.2	1.4	0.2	-1.11	-1.08	1	1	0	1200	1200	0
12/22/2024 12:04	58101	NEKI_T1	2	3	1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
12/22/2024 12:07	66201	SISP_T2	1	1	0	2.8	0	-2.8	0	0	0	0	0	0	0	0
12/22/2024 12:07	66203	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 12:08	44201	POIN_T1	7	63	56	0.11	0.23	0.12	-1.97	-1.96	1	1	0	1200	1200	0
12/22/2024 12:12	43304	WATS_T2	16	21	5	0.41	0.59	0.18	0	0	0	0	0	0	0	0
12/22/2024 12:14	53902	HALI_T2	1	1	0	5.6	5.8	0.2	-0.93	-0.93	0	0	0	0	0	0
12/22/2024 12:14	54504	ENOL_T2	0	0	0	0	0	0	-1.59	-0.94	1	1	0	600	600	0
12/22/2024 12:14	53903	HALI_T2	3	3	0	0.47	0.57	0.1	0	0	0	0	0	0	0	0
12/22/2024 12:14	53901	HALI_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/22/2024 12:17	52403	GRPA_T2	17	19	2	0.45	0.57	0.12	-0.17	-0.17	0	0	0	0	0	0
12/22/2024 12:17	42901	MIDD_T2	1	3	2	0.5	0.17	-0.33	0	0	0	0	0	0	0	0
12/22/2024 12:17	42903	MIDD_T2	2	2	0	1.65	1.6	-0.05	0	0	0	0	0	0	0	0
12/22/2024 12:17	52402	GRPA_T2	3	3	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/22/2024 12:17	42902	MIDD_T2	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
12/22/2024 12:21	64101	REFR_T1	0	1	1	0	0.1	0.1	0.08	0.09	0	0	0	0	0	0
12/22/2024 12:22	64101	REFR_T1	0	1	1	0	0.1	0.1	0.09	0.08	0	0	0	0	0	0
12/22/2024 12:23	64101	REFR_T1	0	1	1	0	0.1	0.1	0.27	0.24	0	0	0	0	0	0
12/22/2024 12:24	64101	REFR_T1	0	1	1	0	0.1	0.1	0.27	0.24	0	0	0	0	0	0
12/22/2024 12:25	64101	REFR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/22/2024 12:26	14103	TRUM_T2	4	6	2	0.23	0	-0.23	0	0	0	0	0	0	0	0
12/22/2024 12:26	14102	TRUM_T2	0	0	0	0	0	0	-1.48	-1.45	3	3	0	2400	2400	0
12/22/2024 12:42	67402	WAKE_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
12/22/2024 12:42	67401	WAKE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/22/2024 12:42	47401	PENS_T1	34	34	0	0.92	0.65	-0.27	0	0	0	0	0	0	0	0
12/22/2024 12:42	47403	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/22/2024 12:43	47401	PENS_T1	34	34	0	0.92	0.65	-0.27	0	0	0	0	0	0	0	0
12/22/2024 12:43	47403	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/22/2024 12:44	47403	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/22/2024 12:44	47401	PENS_T1	34	34	0	0.92	0.65	-0.27	0	0	0	0	0	0	0	0
12/22/2024 12:45	47401	PENS_T1	33	34	1	0.8	0.74	-0.06	0	0	0	0	0	0	0	0
12/22/2024 12:45	47403	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/22/2024 12:46	47401	PENS_T1	33	34	1	0.8	0.74	-0.06	0	0	0	0	0	0	0	0
12/22/2024 12:46	47403	PENS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/22/2024 12:50	44201	POIN_T1	46	73	27	0.17	0.23	0.06	-1.97	-1.96	1	1	0	1200	1200	0
12/22/2024 12:55	42701	AUGU_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/22/2024 12:57	42701	AUGU_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/22/2024 13:01	64402	LAND_T2	1	1	0	0.1	0.1	0	-0.43	-0.48	1	1	0	600	600	0
12/22/2024 13:02	58401	MORO_T1	1	0	-1	0.4	0	-0.4	-1.06	-1	1	1	0	600	600	0
12/22/2024 13:02	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 13:03	52004	LING_T2	2	2	0	2.85	2.85	0	0.14	0.14	0	0	0	0	0	0
12/22/2024 13:03	52002	LING_T2	2	1	-1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
12/22/2024 13:03	55002	NEWP_T1	4	5	1	0.8	0.78	-0.02	-0.18	-0.16	0	0	0	0	0	0
12/22/2024 13:04	58401	MORO_T1	1	0	-1	0.4	0	-0.4	-1.06	-1	1	1	0	600	600	0
12/22/2024 13:04	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 13:05	46501	LOHA_T1	14	13	-1	0.68	0.62	-0.06	0	0	0	0	0	0	0	0
12/22/2024 13:05	46506	LOHA_T1	3	3	0	2.73	2.7	-0.03	-1.12	-1.15	1	1	0	900	900	0
12/22/2024 13:05	46502	LOHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 13:08	66504	SMAN_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
12/22/2024 13:10	66504	SMAN_T2	0	0	0	0	0	0	-0.96	-1.03	0	0	0	0	0	0
12/22/2024 13:11	52102	MEIS_T1	4	6	2	0.35	0.38	0.03	0	0	1	1	0	450	450	0
12/22/2024 13:11	52101	MEIS_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/22/2024 13:15	53501	EVIL_T2	2	2	0	0.45	0.8	0.35	-0.61	-0.66	0	0	0	0	0	0
12/22/2024 13:17	23203	HIRU_T2	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
12/22/2024 13:17	23201	HIRU_T2	2	0	-2	1	0	-1	0	0	0	0	0	0	0	0
12/22/2024 13:24	13704	SCHN_T2	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
12/22/2024 13:26	45501	DERR_T2	2	0	-2	1	0	-1	-0.69	-0.57	2	2	0	1800	1800	0
12/22/2024 13:26	45502	DERR_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/22/2024 13:30	47401	PENS_T1	32	41	9	1.14	1.29	0.15	0	0	0	0	0	0	0	0
12/22/2024 13:30	47403	PENS_T1	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
12/22/2024 13:30	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 13:33	63804	HEMP_T1	4	1	-3	1.75	6	4.25	0	0	0	0	0	0	0	0
12/22/2024 13:33	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	-0.04	-0.03	0	0	0	0	0	0
12/22/2024 13:33	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/22/2024 13:38	65702	RVIL_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
12/22/2024 13:45	52403	GRPA_T2	9	9	0	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
12/22/2024 13:45	47402	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/22/2024 13:45	47403	PENS_T1	1	1	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
12/22/2024 13:45	47401	PENS_T1	31	54	23	1.48	1.07	-0.41	0	0	0	0	0	0	0	0
12/22/2024 13:45	52402	GRPA_T2	1	3	2	0.1	0	-0.1	-0.74	-0.74	0	0	0	0	0	0
12/22/2024 13:45	52404	GRPA_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/22/2024 13:49	58402	MORO_T1	0	0	0	0	0	0	-1.45	-1.5	6	6	0	3900	3900	0
12/22/2024 13:53	64101	REFR_T1	1	0	-1	0.3	0	-0.3	0.1	0.12	0	0	0	0	0	0
12/22/2024 13:55	64101	REFR_T1	1	0	-1	0.3	0	-0.3	0.05	0.06	0	0	0	0	0	0
12/22/2024 13:56	64101	REFR_T1	1	0	-1	0.3	0	-0.3	0.05	0.06	0	0	0	0	0	0
12/22/2024 13:57	64101	REFR_T1	1	0	-1	0.3	0	-0.3	0.05	0.06	0	0	0	0	0	0
12/22/2024 13:58	10801	CHHI_T1	1	2	1	1.2	1	-0.2	-1.99	-2.01	3	3	0	2100	2100	0
12/22/2024 14:00	41801	GOCI_T2	3	3	0	4.37	3.5	-0.87	0	0	0	0	0	0	0	0
12/22/2024 14:04	64904	MILL_T1	0	0	0	0	0	0	-0.21	-0.17	0	0	0	0	0	0
12/22/2024 14:06	55002	NEWP_T1	2	2	0	0.4	0.3	-0.1	-0.2	-0.18	0	0	0	0	0	0
12/22/2024 14:11	64101	REFR_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
12/22/2024 14:16	53901	HALI_T2	1	1	0	0.2	0.2	0	-1.23	-1.29	0	0	0	0	0	0
12/22/2024 14:16	53902	HALI_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
12/22/2024 14:16	53903	HALI_T2	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
12/22/2024 14:32	41801	GOCI_T2	3	3	0	3.5	1.1	-2.4	0	0	0	1	1	0	900	900
12/22/2024 14:33	64204	KINZ_T1	69	53	-16	1.48	0.37	-1.11	0	0	0	0	0	0	0	0
12/22/2024 14:33	64201	KINZ_T1	1	0	-1	0.4	0	-0.4	-0.81	-0.75	3	3	0	1500	1500	0
12/22/2024 14:52	57006	WHHI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/22/2024 14:52	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 14:52	15202	SFAR_T1	0	0	0	0	0	0	-0.81	-0.83	1	1	0	1200	1200	0
12/22/2024 14:54	44902	SCOT_T2	0	0	0	0	0	0	-0.85	-0.87	0	0	0	0	0	0
12/22/2024 14:54	57002	WHHI_T2	0	0	0	0	0	0	-1.61	-1.59	1	1	0	1200	1200	0
12/22/2024 14:54	57006	WHHI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/22/2024 14:57	57006	WHHI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/22/2024 14:57	57001	WHHI_T2	0	0	0	0	0	0	-1.61	-1.63	1	1	0	900	900	0
12/22/2024 15:00	11104	EGYP_T1	10	29	19	0.48	0.9	0.42	0	0	0	0	0	0	0	0
12/22/2024 15:00	11103	EGYP_T1	0	0	0	0	0	0	-0.76	-0.79	0	0	0	0	0	0
12/22/2024 15:07	65802	RTWN_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
12/22/2024 15:47	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.48	-0.48	1	1	0	900	900	0
12/22/2024 15:54	61303	BERK_T5	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
12/22/2024 16:00	11102	EGYP_T1	7	7	0	0.54	0	-0.54	0	0	0	0	0	0	0	0
12/22/2024 16:00	11101	EGYP_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 16:00	11104	EGYP_T1	9	3	-6	0.34	0	-0.34	0	0	0	0	0	0	0	0
12/22/2024 16:00	45802	HEGI_T2	4	10	6	0.23	0.24	0.01	-0.22	-0.27	1	1	0	900	900	0
12/22/2024 16:02	67702	WERN_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
12/22/2024 16:02	67703	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 16:02	45802	HEGI_T2	4	10	6	0.23	0.24	0.01	-0.22	-0.27	1	1	0	900	900	0
12/22/2024 16:12	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 16:12	46001	BERW_T1	0	8	8	0	0.1	0.1	0.81	0.76	0	0	0	0	0	0
12/22/2024 16:12	52204	DEVO_T2	6	7	1	0.98	1.59	0.61	0	0	0	0	0	0	0	0
12/22/2024 16:12	46005	BERW_T1	0	11	11	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 16:14	52202	DEVO_T2	0	0	0	0	0	0	-3.22	-3.15	0	0	0	0	0	0
12/22/2024 16:14	52204	DEVO_T2	6	7	1	0.98	1.59	0.61	0	0	0	0	0	0	0	0
12/22/2024 16:15	45802	HEGI_T2	5	9	4	0.24	0.26	0.02	-0.27	-0.14	1	1	0	900	900	0
12/22/2024 16:16	63501	HEID_TBK1-2	0	5	5	0	0.12	0.12	-0.48	-0.43	1	1	0	900	900	0
12/22/2024 16:18	65502	MOJO_T2	0	0	0	0	0	0	-1.11	-1.06	0	0	0	0	0	0
12/22/2024 16:18	45802	HEGI_T2	5	9	4	0.24	0.26	0.02	-0.27	-0.14	1	1	0	900	900	0
12/22/2024 16:21	65502	MOJO_T2	0	0	0	0	0	0	-1.11	-1.06	0	0	0	0	0	0
12/22/2024 16:22	66505	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/22/2024 16:22	66503	SMAN_T2	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
12/22/2024 16:26	66505	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/22/2024 16:26	66503	SMAN_T2	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
12/22/2024 17:05	51802	EBEN_T2	0	3	3	0	0	0	-0.38	-0.35	1	1	0	900	900	0
12/22/2024 17:05	51804	EBEN_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
12/22/2024 18:04	14201	EALL_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
12/22/2024 18:35	47403	PENS_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
12/22/2024 18:35	47401	PENS_T1	228	254	26	1.86	2.07	0.21	0	0	0	0	0	0	0	0
12/22/2024 18:35	47402	PENS_T1	2	1	-1	0.4	1.2	0.8	0	0	0	0	0	0	0	0
12/22/2024 18:39	52004	LING_T2	3	4	1	1.77	2.3	0.53	-0.27	-0.28	0	0	0	0	0	0
12/22/2024 18:39	52002	LING_T2	6	3	-3	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/22/2024 18:42	46203	DANV_T2	17	5	-12	0.34	0.2	-0.14	-2.29	-2.27	0	0	0	0	0	0
12/22/2024 18:42	47403	PENS_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
12/22/2024 18:42	47402	PENS_T1	2	1	-1	0.4	1.2	0.8	0	0	0	0	0	0	0	0
12/22/2024 18:42	46206	DANV_T2	30	30	0	0.44	0.47	0.03	0	0	0	0	0	0	0	0
12/22/2024 18:42	47401	PENS_T1	228	254	26	1.86	2.07	0.21	0	0	0	0	0	0	0	0
12/22/2024 18:42	46204	DANV_T2	103	109	6	0.83	0.57	-0.26	0	0	0	0	0	0	0	0
12/22/2024 18:42	10801	CHHI_T1	152	198	46	0.68	0.64	-0.04	-1.7	-1.68	3	3	0	2100	2100	0
12/22/2024 18:45	48301	ORWI_T1	2	2	0	4.2	4.5	0.3	-0.96	-0.97	1	1	0	900	900	0
12/22/2024 18:45	40603	PIGR_T1	5	12	7	0.42	0.53	0.11	0	0	0	0	0	0	0	0
12/22/2024 18:45	40602	PIGR_T1	17	8	-9	0.85	1.15	0.3	0	0	0	0	0	0	0	0
12/22/2024 18:45	40601	PIGR_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/22/2024 18:45	52404	GRPA_T2	46	14	-32	0.5	0.62	0.12	0	0	0	0	0	0	0	0
12/22/2024 18:45	13503	MCMI_T2	29	5	-24	0.48	0.1	-0.38	-0.15	-0.2	0	0	0	0	0	0
12/22/2024 18:45	52403	GRPA_T2	4	2	-2	0.65	1.3	0.65	-0.63	-0.66	0	0	0	0	0	0
12/22/2024 18:45	52402	GRPA_T2	20	6	-14	0.73	0.4	-0.33	0	0	0	0	0	0	0	0
12/22/2024 18:45	52401	GRPA_T2	20	35	15	0.34	0.37	0.03	0	0	0	0	0	0	0	0
12/22/2024 18:46	11104	EGYP_T1	7	3	-4	1.03	2.7	1.67	0	0	0	0	0	0	0	0
12/22/2024 18:46	11102	EGYP_T1	15	21	6	0.66	0.59	-0.07	0	0	0	0	0	0	0	0
12/22/2024 18:46	45502	DERR_T2	79	65	-14	0.9	0.47	-0.43	0	0	0	0	0	0	0	0
12/22/2024 18:46	66504	SMAN_T2	0	0	0	0	0	0	-2.86	-2.82	2	2	0	2400	2400	0
12/22/2024 18:46	66505	SMAN_T2	2	1	-1	0.85	0	-0.85	0	0	0	0	0	0	0	0
12/22/2024 18:46	45501	DERR_T2	15	15	0	1.28	0.45	-0.83	-0.45	-0.37	2	2	0	1800	1800	0
12/22/2024 18:46	11101	EGYP_T1	2	3	1	0.35	0	-0.35	0	0	0	0	0	0	0	0
12/22/2024 18:46	11103	EGYP_T1	0	0	0	0	0	0	-0.66	-0.6	0	0	0	0	0	0
12/22/2024 18:47	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:47	42701	AUGU_T1	9	10	1	0.74	0.56	-0.18	0	0	0	0	0	0	0	0
12/22/2024 18:47	52002	LING_T2	3	0	-3	0.63	0	-0.63	0	0	0	0	0	0	0	0
12/22/2024 18:47	52004	LING_T2	3	3	0	1.5	2.3	0.8	-0.27	-0.28	0	0	0	0	0	0
12/22/2024 18:47	54504	ENOL_T2	0	0	0	0	0	0	-1.51	-1.52	1	1	0	600	600	0
12/22/2024 18:47	44201	POIN_T1	23	20	-3	0.13	0.15	0.02	-1.89	-1.9	1	1	0	1200	1200	0
12/22/2024 18:47	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:47	54502	ENOL_T2	4	3	-1	0.33	0	-0.33	0	0	0	0	0	0	0	0
12/22/2024 18:47	67702	WERN_T2	268	256	-12	2.31	0.74	-1.57	0	0	0	0	0	0	0	0
12/22/2024 18:48	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:48	53903	HALI_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/22/2024 18:48	53902	HALI_T2	1	1	0	5	5.3	0.3	-0.94	-0.93	0	0	0	0	0	0
12/22/2024 18:48	43202	MVIL_T2	18	9	-9	0.82	0.88	0.06	-0.48	-0.57	0	0	0	0	0	0
12/22/2024 18:48	23201	HIRU_T2	8	7	-1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
12/22/2024 18:48	54502	ENOL_T2	4	3	-1	0.33	0	-0.33	0	0	0	0	0	0	0	0
12/22/2024 18:48	54201	PENN_T1	6	27	21	1.08	0.39	-0.69	-1.39	-1.37	0	0	0	0	0	0
12/22/2024 18:48	15202	SFAR_T1	0	1	1	0	0	0	-0.79	-0.78	1	1	0	1200	1200	0
12/22/2024 18:48	54506	ENOL_T2	0	0	0	0	0	0	-0.8	-0.85	0	0	0	0	0	0
12/22/2024 18:48	15201	SFAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:48	43201	MVIL_T2	21	21	0	0.6	0.68	0.08	0	0	0	0	0	0	0	0
12/22/2024 18:48	23203	HIRU_T2	2	0	-2	0.1	0	-0.1	-0.69	-0.69	0	0	0	0	0	0
12/22/2024 18:48	54203	PENN_T1	18	18	0	0.34	0.68	0.34	0.1	0.07	0	0	0	0	0	0
12/22/2024 18:49	44201	POIN_T1	23	20	-3	0.13	0.15	0.02	-1.89	-1.9	1	1	0	1200	1200	0
12/22/2024 18:49	44301	BEAV_T2	3	4	1	2.4	2.85	0.45	0	0	0	0	0	0	0	0
12/22/2024 18:49	66505	SMAN_T2	2	1	-1	0.85	0	-0.85	0	0	0	0	0	0	0	0
12/22/2024 18:49	67702	WERN_T2	268	256	-12	2.31	0.74	-1.57	0	0	0	0	0	0	0	0
12/22/2024 18:49	42701	AUGU_T1	9	10	1	0.74	0.56	-0.18	0	0	0	0	0	0	0	0
12/22/2024 18:49	41801	GOCI_T2	2	1	-1	0.15	0	-0.15	0	0	1	1	0	900	900	0
12/22/2024 18:49	52004	LING_T2	3	3	0	1.5	2.3	0.8	0	0	0	0	0	0	0	0
12/22/2024 18:49	44302	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:49	52204	DEVO_T2	7	7	0	2.87	1.74	-1.13	0	0	0	0	0	0	0	0
12/22/2024 18:49	57703	PAXT_T2	68	132	64	0.16	0.22	0.06	0	0	0	0	0	0	0	0
12/22/2024 18:49	46001	BERW_T1	3	8	5	0.17	0.35	0.18	0.87	0.9	0	0	0	0	0	0
12/22/2024 18:49	52202	DEVO_T2	0	1	1	0	0	0	-3.08	-3.05	0	0	0	0	0	0
12/22/2024 18:49	53902	HALI_T2	1	1	0	5	5.3	0.3	-0.94	-0.93	0	0	0	0	0	0
12/22/2024 18:49	66504	SMAN_T2	0	0	0	0	0	0	-1.43	-1.41	1	1	0	1200	1200	0
12/22/2024 18:49	55001	NEWP_T1	0	0	0	0	0	0	-0.79	-0.79	1	1	0	600	600	0
12/22/2024 18:49	53903	HALI_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/22/2024 18:49	57704	PAXT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:49	46005	BERW_T1	7	11	4	0.2	0.66	0.46	0	0	0	0	0	0	0	0
12/22/2024 18:49	52002	LING_T2	3	0	-3	0.63	0	-0.63	0	0	0	0	0	0	0	0
12/22/2024 18:49	42902	MIDD_T2	9	14	5	0.57	0.58	0.01	-0.43	-0.44	0	0	0	0	0	0
12/22/2024 18:49	40201	BEGA_T2	85	131	46	0.5	0.41	-0.09	0	0	0	0	0	0	0	0
12/22/2024 18:49	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:49	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:49	55002	NEWP_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/22/2024 18:50	44301	BEAV_T2	3	4	1	2.4	2.85	0.45	0	0	0	0	0	0	0	0
12/22/2024 18:50	47403	PENS_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
12/22/2024 18:50	47401	PENS_T1	242	257	15	2.09	1.91	-0.18	0	0	0	0	0	0	0	0
12/22/2024 18:50	44302	BEAV_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
12/22/2024 18:50	64202	KINZ_T1	1	1	0	0.5	3.7	3.2	0	0	0	0	0	0	0	0
12/22/2024 18:50	64201	KINZ_T1	5	8	3	0.38	0.18	-0.2	-1.14	-0.99	6	6	0	3000	3000	0
12/22/2024 18:50	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.37	-0.38	1	1	0	900	900	0
12/22/2024 18:50	65901	SAKR_T2	1	1	0	8.9	9	0.1	0	0	0	0	0	0	0	0
12/22/2024 18:50	65903	SAKR_T2	0	1	1	0	0	0	-1.02	-1.01	3	3	0	2100	2100	0
12/22/2024 18:50	65902	SAKR_T2	2	0	-2	0.8	0	-0.8	0	0	0	0	0	0	0	0
12/22/2024 18:50	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:50	67702	WERN_T2	268	256	-12	2.31	0.74	-1.57	0	0	0	0	0	0	0	0
12/22/2024 18:50	53903	HALI_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/22/2024 18:50	47402	PENS_T1	1	2	1	1.6	0.6	-1	0	0	0	0	0	0	0	0
12/22/2024 18:50	64203	KINZ_T1	6	6	0	1.27	0.35	-0.92	0	0	0	0	0	0	0	0
12/22/2024 18:50	53902	HALI_T2	1	1	0	5	5.3	0.3	-0.94	-0.93	0	0	0	0	0	0
12/22/2024 18:50	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/22/2024 18:51	66201	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:51	53501	EVIL_T2	1	1	0	0.1	0.2	0.1	-2.16	-2.06	2	2	0	1200	1200	0
12/22/2024 18:51	47401	PENS_T1	242	257	15	2.09	1.91	-0.18	0	0	0	0	0	0	0	0
12/22/2024 18:51	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:51	13503	MCMI_T2	29	5	-24	0.48	0.1	-0.38	-0.2	-0.19	0	0	0	0	0	0
12/22/2024 18:51	66203	SISP_T2	0	0	0	0	0	0	-1.37	-1.38	2	2	0	1800	1800	0
12/22/2024 18:51	65901	SAKR_T2	1	1	0	8.9	9	0.1	0	0	0	0	0	0	0	0
12/22/2024 18:51	65903	SAKR_T2	0	1	1	0	0	0	-1.02	-1.01	3	3	0	2100	2100	0
12/22/2024 18:51	47402	PENS_T1	1	2	1	1.6	0.6	-1	0	0	0	0	0	0	0	0
12/22/2024 18:51	45501	DERR_T2	15	15	0	1.28	0.45	-0.83	-0.45	-0.37	2	2	0	1800	1800	0
12/22/2024 18:51	43304	WATS_T2	7	16	9	0.31	0.33	0.02	0	0	0	0	0	0	0	0
12/22/2024 18:51	64904	MILL_T1	0	0	0	0	0	0	-0.02	0.01	0	0	0	0	0	0
12/22/2024 18:51	55002	NEWP_T1	1	2	1	0.2	0.25	0.05	-0.14	-0.12	0	0	0	0	0	0
12/22/2024 18:51	52503	PROG_T2	0	0	0	0	0	0	-0.35	-0.34	1	1	0	900	900	0
12/22/2024 18:51	43301	WATS_T2	30	36	6	0.36	0.9	0.54	0	0	0	0	0	0	0	0
12/22/2024 18:51	47403	PENS_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
12/22/2024 18:51	67702	WERN_T2	268	256	-12	2.31	0.74	-1.57	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/22/2024 18:51	45502	DERR_T2	79	65	-14	0.9	0.47	-0.43	0	0	0	0	0	0	0	0
12/22/2024 18:51	65902	SAKR_T2	2	0	-2	0.8	0	-0.8	0	0	0	0	0	0	0	0
12/22/2024 18:52	54201	PENN_T1	6	27	21	1.08	0.39	-0.69	0	0	0	0	0	0	0	0
12/22/2024 18:52	46204	DANV_T2	109	104	-5	0.89	0.57	-0.32	-0.44	-0.43	1	1	0	1200	1200	0
12/22/2024 18:52	50202	HARR_T3	19	1	-18	0.75	0	-0.75	-1.47	-1.43	0	0	0	0	0	0
12/22/2024 18:52	13503	MCMI_T2	29	5	-24	0.48	0.1	-0.38	-0.2	-0.19	0	0	0	0	0	0
12/22/2024 18:52	61101	BERK_T5	12	2	-10	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/22/2024 18:52	63801	HEMP_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
12/22/2024 18:52	65702	RVIL_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
12/22/2024 18:52	64101	REFR_T1	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
12/22/2024 18:52	55002	NEWP_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/22/2024 18:52	54203	PENN_T1	18	18	0	0.34	0.68	0.34	0.07	0.09	0	0	0	0	0	0
12/22/2024 18:52	50201	HARR_T3	5	3	-2	1.36	2.75	1.39	0	0	0	0	0	0	0	0
12/22/2024 18:52	67702	WERN_T2	268	256	-12	2.31	0.74	-1.57	0	0	0	0	0	0	0	0
12/22/2024 18:52	46203	DANV_T2	5	4	-1	0.46	0.1	-0.36	0	0	0	0	0	0	0	0
12/22/2024 18:52	63804	HEMP_T1	1	3	2	6.3	5.7	-0.6	0	0	0	0	0	0	0	0
12/22/2024 18:52	60501	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:52	50102	HARR_T3	1	1	0	1.7	0.8	-0.9	0	0	0	0	0	0	0	0
12/22/2024 18:52	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:52	60504	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:52	60502	NMAN_T2	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
12/22/2024 18:52	50103	HARR_T3	2	5	3	0.45	0	-0.45	0	0	0	0	0	0	0	0
12/22/2024 18:52	55001	NEWP_T1	0	0	0	0	0	0	-0.79	-0.8	1	1	0	600	600	0
12/22/2024 18:52	10801	CHHI_T1	198	163	-35	1.01	0.62	-0.39	-1.68	-1.65	3	3	0	2100	2100	0
12/22/2024 18:52	50106	HARR_T3	2	2	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
12/22/2024 18:52	50105	HARR_T3	19	12	-7	3.01	7.5	4.49	0	0	0	0	0	0	0	0
12/22/2024 18:52	61103	BERK_T5	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
12/22/2024 18:52	46206	DANV_T2	26	34	8	0.57	0.43	-0.14	0	0	0	0	0	0	0	0
12/22/2024 18:53	52402	GRPA_T2	20	6	-14	0.73	0.4	-0.33	0	0	0	0	0	0	0	0
12/22/2024 18:53	65802	RTWN_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
12/22/2024 18:53	47401	PENS_T1	242	257	15	2.09	1.91	-0.18	0	0	0	0	0	0	0	0
12/22/2024 18:53	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.77	-0.62	2	2	0	1800	1800	0
12/22/2024 18:53	66503	SMAN_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
12/22/2024 18:53	47402	PENS_T1	1	2	1	1.6	0.6	-1	0	0	0	0	0	0	0	0
12/22/2024 18:53	65502	MOJO_T2	0	0	0	0	0	0	-1.02	-1.08	0	0	0	0	0	0
12/22/2024 18:53	52401	GRPA_T2	20	35	15	0.34	0.37	0.03	-0.46	-0.4	0	0	0	0	0	0
12/22/2024 18:53	47403	PENS_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
12/22/2024 18:53	55002	NEWP_T1	1	2	1	0.2	0.25	0.05	-0.14	-0.12	0	0	0	0	0	0
12/22/2024 18:53	52404	GRPA_T2	46	14	-32	0.5	0.62	0.12	0	0	0	0	0	0	0	0
12/22/2024 18:53	52403	GRPA_T2	4	2	-2	0.65	1.3	0.65	0	0	0	0	0	0	0	0
12/22/2024 18:53	64101	REFR_T1	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
12/22/2024 18:53	67702	WERN_T2	268	256	-12	2.31	0.74	-1.57	0	0	0	0	0	0	0	0
12/22/2024 18:53	64402	LAND_T2	0	0	0	0	0	0	-0.44	-0.46	1	1	0	600	600	0
12/22/2024 18:53	66505	SMAN_T2	2	1	-1	0.85	0	-0.85	0	0	0	0	0	0	0	0
12/22/2024 18:53	44203	POIN_T2	0	2	2	0	0	0	-0.74	-0.79	2	2	0	2100	2100	0
12/22/2024 18:54	47401	PENS_T1	242	257	15	2.09	1.91	-0.18	0	0	0	0	0	0	0	0
12/22/2024 18:54	42902	MIDD_T2	9	14	5	0.57	0.58	0.01	-0.44	-0.44	0	0	0	0	0	0
12/22/2024 18:54	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:54	47402	PENS_T1	1	2	1	1.6	0.6	-1	0	0	0	0	0	0	0	0
12/22/2024 18:54	66505	SMAN_T2	2	1	-1	0.85	0	-0.85	0	0	0	0	0	0	0	0
12/22/2024 18:54	55002	NEWP_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/22/2024 18:54	53901	HALI_T2	0	0	0	0	0	0	-1.19	-1.23	0	0	0	0	0	0
12/22/2024 18:54	52202	DEVO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:54	53501	EVIL_T2	1	1	0	0.1	0.2	0.1	-1.08	-1.03	1	1	0	600	600	0
12/22/2024 18:54	53902	HALI_T2	1	1	0	5	5.3	0.3	-0.93	-0.94	0	0	0	0	0	0
12/22/2024 18:54	58401	MORO_T1	1	2	1	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
12/22/2024 18:54	52204	DEVO_T2	7	7	0	2.87	1.74	-1.13	0	0	0	0	0	0	0	0
12/22/2024 18:54	47403	PENS_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
12/22/2024 18:54	55001	NEWP_T1	0	0	0	0	0	0	-0.79	-0.8	1	1	0	600	600	0
12/22/2024 18:54	58102	NEKI_T1	1	1	0	0.2	0.5	0.3	-1.06	-1.09	1	1	0	1200	1200	0
12/22/2024 18:54	58402	MORO_T1	4	2	-2	1.53	0.2	-1.33	-0.42	-0.4	3	3	0	1950	1950	0
12/22/2024 18:54	53903	HALI_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/22/2024 18:54	13704	SCHN_T2	15	25	10	0.53	0.86	0.33	-0.59	-0.59	0	0	0	0	0	0
12/22/2024 18:54	66503	SMAN_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
12/22/2024 18:54	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:54	13701	SCHN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:54	67702	WERN_T2	268	256	-12	2.31	0.74	-1.57	0	0	0	0	0	0	0	0
12/22/2024 18:55	64101	REFR_T1	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
12/22/2024 18:55	47401	PENS_T1	242	257	15	2.09	1.91	-0.18	0	0	0	0	0	0	0	0
12/22/2024 18:55	47403	PENS_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
12/22/2024 18:55	63401	HONY_T1	0	0	0	0	0	0	0.05	0.01	1	1	0	600	600	0
12/22/2024 18:55	47402	PENS_T1	1	2	1	1.6	0.6	-1	0	0	0	0	0	0	0	0
12/22/2024 18:55	56501	ROCK_T2	11	50	39	0.18	0.19	0.01	-2.41	-2.39	0	0	0	0	0	0
12/22/2024 18:55	55002	NEWP_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/22/2024 18:55	55001	NEWP_T1	0	0	0	0	0	0	-0.79	-0.8	1	1	0	600	600	0
12/22/2024 18:55	40902	JESH_T1	0	0	0	0	0	0	-2.38	-2.32	3	3	0	1800	1800	0
12/22/2024 18:55	40901	JESH_T1	1	1	0	1.8	1.2	-0.6	0	0	0	0	0	0	0	0
12/22/2024 18:55	53501	EVIL_T2	1	1	0	0.1	0.2	0.1	-1.08	-1.03	1	1	0	600	600	0
12/22/2024 18:55	45802	HEGI_T2	18	13	-5	0.42	0.46	0.04	-0.18	-0.03	1	1	0	900	900	0
12/22/2024 18:56	58402	MORO_T1	4	2	-2	1.53	0.2	-1.33	0	0	0	0	0	0	0	0
12/22/2024 18:56	47403	PENS_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
12/22/2024 18:56	66505	SMAN_T2	2	1	-1	0.85	0	-0.85	0	0	0	0	0	0	0	0
12/22/2024 18:56	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:56	55002	NEWP_T1	1	2	1	0.2	0.25	0.05	-0.14	-0.12	0	0	0	0	0	0
12/22/2024 18:56	57001	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:56	66503	SMAN_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
12/22/2024 18:56	56501	ROCK_T2	11	50	39	0.18	0.19	0.01	-2.41	-2.39	0	0	0	0	0	0
12/22/2024 18:56	52403	GRPA_T2	4	2	-2	0.65	1.3	0.65	0	0	0	0	0	0	0	0
12/22/2024 18:56	44902	SCOT_T2	0	0	0	0	0	0	-0.84	-0.86	0	0	0	0	0	0
12/22/2024 18:56	47401	PENS_T1	242	257	15	2.09	1.91	-0.18	0	0	0	0	0	0	0	0
12/22/2024 18:56	52404	GRPA_T2	46	14	-32	0.5	0.62	0.12	0	0	0	0	0	0	0	0
12/22/2024 18:56	64101	REFR_T1	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
12/22/2024 18:56	58302	NOTT_T1	0	0	0	0	0	0	-0.8	-0.81	1	1	0	900	900	0
12/22/2024 18:56	53501	EVIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/22/2024 18:56	57006	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/22/2024 18:56	57002	WHHI_T2	0	0	0	0	0	0	-2.6	-2.64	1	1	0	1200	1200	0
12/22/2024 18:56	52401	GRPA_T2	20	35	15	0.34	0.37	0.03	0	0	0	0	0	0	0	0
12/22/2024 18:56	42902	MIDD_T2	9	14	5	0.57	0.58	0.01	-0.44	-0.44	0	0	0	0	0	0
12/22/2024 18:56	47402	PENS_T1	1	2	1	1.6	0.6	-1	0	0	0	0	0	0	0	0
12/22/2024 18:56	52402	GRPA_T2	20	6	-14	0.73	0.4	-0.33	-0.71	-0.69	0	0	0	0	0	0
12/22/2024 18:56	58202	NEWV_T1	0	0	0	0	0	0	-0.2	-0.24	0	0	0	0	0	0
12/22/2024 18:56	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:56	58401	MORO_T1	1	2	1	1.5	1.1	-0.4	-2.41	-2.46	2	2	0	1200	1200	0
12/22/2024 18:57	64101	REFR_T1	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
12/22/2024 18:57	53501	EVIL_T2	1	1	0	0.1	0.2	0.1	-1.08	-1.03	1	1	0	600	600	0
12/22/2024 18:57	42903	MIDD_T2	0	0	0	0	0	0	-0.82	-0.8	0	0	0	0	0	0
12/22/2024 18:57	42902	MIDD_T2	9	14	5	0.57	0.58	0.01	0	0	0	0	0	0	0	0
12/22/2024 18:57	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:57	63801	HEMP_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
12/22/2024 18:57	63804	HEMP_T1	1	3	2	6.3	5.7	-0.6	0	0	0	0	0	0	0	0
12/22/2024 18:57	66201	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:57	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:58	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:58	57006	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/22/2024 18:58	47402	PENS_T1	1	2	1	1.6	0.6	-1	0	0	0	0	0	0	0	0
12/22/2024 18:58	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:58	67402	WAKE_T2	0	0	0	0	0	0	-0.22	-0.21	1	1	0	600	600	0
12/22/2024 18:58	11102	EGYP_T1	15	21	6	0.66	0.59	-0.07	0	0	0	0	0	0	0	0
12/22/2024 18:58	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:58	64201	KINZ_T1	5	8	3	0.38	0.18	-0.2	0	0	0	0	0	0	0	0
12/22/2024 18:58	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
12/22/2024 18:58	64203	KINZ_T1	6	6	0	1.27	0.35	-0.92	-0.92	-0.97	2	2	0	900	900	0
12/22/2024 18:58	47403	PENS_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
12/22/2024 18:58	57001	WHHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:58	40101	HUNT_T2	1074	1048	-26	2.9	3	0.1	0	0	0	0	0	0	0	0
12/22/2024 18:58	14103	TRUM_T2	13	13	0	1.02	0.58	-0.44	0	0	0	0	0	0	0	0
12/22/2024 18:58	67702	WERN_T2	268	256	-12	2.31	0.74	-1.57	0	0	0	0	0	0	0	0
12/22/2024 18:58	45802	HEGI_T2	18	13	-5	0.42	0.46	0.04	-0.18	-0.03	1	1	0	900	900	0
12/22/2024 18:58	11104	EGYP_T1	7	3	-4	1.03	2.7	1.67	0	0	0	0	0	0	0	0
12/22/2024 18:58	64101	REFR_T1	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
12/22/2024 18:58	11101	EGYP_T1	2	3	1	0.35	0	-0.35	0	0	0	0	0	0	0	0
12/22/2024 18:58	47401	PENS_T1	242	257	15	2.09	1.91	-0.18	0	0	0	0	0	0	0	0
12/22/2024 18:58	14102	TRUM_T2	1	1	0	6.5	6.1	-0.4	-1.32	-1.36	3	3	0	2400	2400	0
12/22/2024 18:58	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/22/2024 18:58	64202	KINZ_T1	1	1	0	0.5	3.7	3.2	0.63	0.67	0	0	0	0	0	0
12/22/2024 18:58	42701	AUGU_T1	9	10	1	0.74	0.56	-0.18	0	0	0	0	0	0	0	0
12/22/2024 18:58	52101	MEIS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 18:59	53902	HALI_T2	1	1	0	5	5.3	0.3	-0.93	-0.94	0	0	0	0	0	0
12/22/2024 18:59	64203	KINZ_T1	6	6	0	1.27	0.35	-0.92	0	0	0	0	0	0	0	0
12/22/2024 18:59	65903	SAKR_T2	0	1	1	0	0	0	-1.01	-1.01	3	3	0	2100	2100	0
12/22/2024 18:59	64202	KINZ_T1	1	1	0	0.5	3.7	3.2	0	0	0	0	0	0	0	0
12/22/2024 18:59	46502	LOHA_T1	5	3	-2	1.66	0	-1.66	0	0	0	0	0	0	0	0
12/22/2024 18:59	65901	SAKR_T2	1	1	0	8.9	9	0.1	0	0	0	0	0	0	0	0
12/22/2024 18:59	42902	MIDD_T2	9	14	5	0.57	0.58	0.01	-0.44	-0.44	0	0	0	0	0	0
12/22/2024 18:59	58402	MORO_T1	4	2	-2	1.53	0.2	-1.33	-0.42	-0.4	3	3	0	1950	1950	0
12/22/2024 18:59	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/22/2024 18:59	46506	LOHA_T1	4	2	-2	0.2	0.6	0.4	-1.01	-1.04	1	1	0	900	900	0
12/22/2024 18:59	65902	SAKR_T2	2	0	-2	0.8	0	-0.8	0	0	0	0	0	0	0	0
12/22/2024 18:59	46501	LOHA_T1	38	42	4	0.73	0.82	0.09	0	0	0	0	0	0	0	0
12/22/2024 18:59	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.38	-0.31	1	1	0	900	900	0
12/22/2024 18:59	64201	KINZ_T1	5	8	3	0.38	0.18	-0.2	0	0	0	0	0	0	0	0
12/22/2024 18:59	53903	HALI_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/22/2024 18:59	58401	MORO_T1	1	2	1	1.5	1.1	-0.4	-2.41	-2.46	2	2	0	1200	1200	0
12/22/2024 18:59	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 19:00	52404	GRPA_T2	6	16	10	0.7	0.58	-0.12	0	0	0	0	0	0	0	0
12/22/2024 19:00	55002	NEWP_T1	1	2	1	0.1	0.25	0.15	-0.14	-0.12	0	0	0	0	0	0
12/22/2024 19:00	60504	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 19:00	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 19:00	52403	GRPA_T2	1	3	2	1.4	0.7	-0.7	0	0	0	0	0	0	0	0
12/22/2024 19:00	52401	GRPA_T2	21	38	17	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
12/22/2024 19:00	64101	REFR_T1	0	0	0	0	0	0	0.48	0.4	0	0	0	0	0	0
12/22/2024 19:00	60501	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 19:00	53501	EVIL_T2	1	1	0	0.2	0.7	0.5	-1.08	-1.03	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/22/2024 19:00	53502	EVIL_T2	0	11	11	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 19:00	52402	GRPA_T2	5	17	12	0.5	0.4	-0.1	-0.71	-0.69	0	0	0	0	0	0
12/22/2024 19:01	60501	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 19:01	46206	DANV_T2	26	32	6	0.55	0.36	-0.19	0	0	0	0	0	0	0	0
12/22/2024 19:01	46204	DANV_T2	98	104	6	0.59	0.48	-0.11	0	0	0	0	0	0	0	0
12/22/2024 19:01	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.38	-0.31	1	1	0	900	900	0
12/22/2024 19:01	46203	DANV_T2	4	14	10	0.2	0.1	-0.1	-2.27	-2.26	0	0	0	0	0	0
12/22/2024 19:01	44301	BEAV_T2	4	2	-2	2.1	2.9	0.8	0	0	0	0	0	0	0	0
12/22/2024 19:01	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 19:01	60504	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 19:02	57304	MOAL_T2	0	18	18	0	0	0	-1.09	-1.12	1	1	0	900	900	0
12/22/2024 19:02	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2024 19:02	61304	EARL_T1	0	0	0	0	0	0	-0.78	-0.74	1	1	0	600	600	0
12/22/2024 19:02	64101	REFR_T1	0	0	0	0	0	0	0.32	0.27	0	0	0	0	0	0
12/22/2024 19:02	55002	NEWP_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
12/22/2024 19:02	57303	MOAL_T2	1	1	0	8.4	8.4	0	0	0	0	0	0	0	0	0
12/22/2024 19:02	51204	MTON_T2	0	0	0	0	0	0	-0.66	-0.64	1	1	0	900	900	0
12/22/2024 19:02	65702	RVIL_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
12/22/2024 19:04	63302	GREE_T1	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
12/22/2024 19:04	63305	GREE_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/22/2024 19:06	65502	MOJO_T2	0	0	0	0	0	0	-1.02	-1.08	0	0	0	0	0	0
12/22/2024 19:06	55105	WERT_T1	0	0	0	0	0	0	-0.21	-0.2	1	1	0	900	900	0
12/22/2024 19:07	44301	BEAV_T2	4	2	-2	2.1	2.9	0.8	0	0	0	0	0	0	0	0
12/22/2024 19:07	44302	BEAV_T2	0	0	0	0	0	0	0	0.24	0	0	0	0	0	0
12/22/2024 19:12	64202	KINZ_T1	1	2	1	3.9	2.4	-1.5	0	0	0	0	0	0	0	0
12/22/2024 19:12	64204	KINZ_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
12/22/2024 19:12	64203	KINZ_T1	6	4	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
12/22/2024 19:12	64201	KINZ_T1	8	4	-4	0.66	0	-0.66	0	0	0	0	0	0	0	0
12/22/2024 19:19	54201	PENN_T1	24	67	43	0.42	0.36	-0.06	-1.39	-1.38	0	0	0	0	0	0
12/22/2024 19:19	54203	PENN_T1	18	18	0	0.68	0.8	0.12	0	0	0	0	0	0	0	0
12/22/2024 19:49	44201	POIN_T1	36	35	-1	0.16	0.19	0.03	-1.98	-1.83	1	1	0	1200	1200	0
12/22/2024 19:54	52402	GRPA_T2	5	19	14	0.78	0.47	-0.31	0	0	0	0	0	0	0	0
12/22/2024 19:54	52403	GRPA_T2	1	5	4	0.6	0.5	-0.1	-0.7	-0.72	0	0	0	0	0	0
12/22/2024 19:54	52404	GRPA_T2	12	35	23	0.63	0.52	-0.11	0	0	0	0	0	0	0	0
12/22/2024 19:54	52401	GRPA_T2	17	39	22	0.51	0.44	-0.07	0	0	0	0	0	0	0	0
12/22/2024 23:21	65702	RVIL_T2	3	7	4	0.13	0.11	-0.02	83.96	83.96	0	0	0	0	0	0
12/23/2024 7:53	55101	WERT_T1	2	0	-2	0.7	0	-0.7	-2.37	-2.26	4	4	0	3000	3000	0
12/23/2024 7:58	60902	DONG_T2	0	0	0	0	0	0	0.32	0.18	0	0	0	0	0	0
12/23/2024 8:00	52004	LING_T2	8	6	-2	1.01	2.55	1.54	-0.29	-0.28	0	0	0	0	0	0
12/23/2024 8:00	52002	LING_T2	11	6	-5	0.49	0.2	-0.29	0	0	0	0	0	0	0	0
12/23/2024 8:11	57602	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 8:14	53902	HALI_T2	1	1	0	4.2	5.4	1.2	0	0	0	0	0	0	0	0
12/23/2024 8:14	53903	HALI_T2	2	2	0	0.15	0.7	0.55	0	0	0	0	0	0	0	0
12/23/2024 8:14	53901	HALI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 8:15	63401	HONY_T1	2	4	2	1.65	1.05	-0.6	0.53	0.52	1	1	0	600	600	0
12/23/2024 8:18	60502	NMAN_T2	0	0	0	0	0	0	0	0.09	0	0	0	0	0	0
12/23/2024 8:18	60501	NMAN_T2	3	8	5	1.03	0.26	-0.77	0	0	0	0	0	0	0	0
12/23/2024 8:19	52502	PROG_T2	0	0	0	0	0	0	1.78	-0.15	0	2	2	0	1800	1800
12/23/2024 8:20	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 8:27	57602	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 8:27	51903	COPA_T1	5	5	0	1.18	1.02	-0.16	0	0	0	0	0	0	0	0
12/23/2024 8:27	51905	COPA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/23/2024 8:29	53902	HALI_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
12/23/2024 8:29	53903	HALI_T2	2	2	0	0.65	0.7	0.05	-0.17	-0.17	0	0	0	0	0	0
12/23/2024 8:31	13503	MCMI_T2	10	6	-4	0.84	0	-0.84	-0.09	-0.06	0	0	0	0	0	0
12/23/2024 8:33	60504	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 8:33	60501	NMAN_T2	2	11	9	0.8	0.13	-0.67	0	0	0	0	0	0	0	0
12/23/2024 8:33	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 8:34	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.07	-0.06	0	0	0	0	0	0
12/23/2024 8:34	55001	NEWP_T1	13	3	-10	0.92	0	-0.92	0	0	0	0	0	0	0	0
12/23/2024 8:35	60501	NMAN_T2	2	11	9	0.8	0.13	-0.67	0	0	0	0	0	0	0	0
12/23/2024 8:35	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 8:35	60504	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 8:37	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 8:37	67702	WERN_T2	275	266	-9	2.8	1.41	-1.39	0	0	0	0	0	0	0	0
12/23/2024 8:38	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 8:38	67702	WERN_T2	275	266	-9	2.8	1.41	-1.39	0	0	0	0	0	0	0	0
12/23/2024 8:40	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 8:40	67702	WERN_T2	275	266	-9	2.8	1.41	-1.39	0	0	0	0	0	0	0	0
12/23/2024 8:41	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 8:41	53502	EVIL_T2	13	12	-1	2.88	0.68	-2.2	0	0	0	0	0	0	0	0
12/23/2024 8:41	55101	WERT_T1	5	0	-5	0.12	0	-0.12	-1.17	-1.22	2	2	0	1500	1500	0
12/23/2024 8:41	53601	DALM_T2	6	7	1	1.77	1.23	-0.54	-0.52	-0.55	1	1	0	900	900	0
12/23/2024 8:41	53501	EVIL_T2	4	3	-1	0.95	0.53	-0.42	0	0	0	0	0	0	0	0
12/23/2024 8:44	41802	GOCI_T2	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
12/23/2024 8:44	41801	GOCI_T2	15	5	-10	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/23/2024 8:46	63401	HONY_T1	2	2	0	1.05	1	-0.05	0.46	0.47	1	1	0	600	600	0
12/23/2024 8:47	20601	GRWO_T2	105	144	39	0.94	1.02	0.08	0.29	0.3	0	0	0	0	0	0
12/23/2024 8:47	20603	GRWO_T2	21	23	2	2.81	2.5	-0.31	0	0	0	0	0	0	0	0
12/23/2024 8:49	42902	MIDD_T2	13	37	24	0.42	0.4	-0.02	0	0	0	0	0	0	0	0
12/23/2024 8:49	42901	MIDD_T2	1	10	9	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
12/23/2024 8:49	42903	MIDD_T2	2	2	0	1.5	1.7	0.2	0.16	0.26	1	1	0	1200	1200	0
12/23/2024 8:50	67702	WERN_T2	266	246	-20	2.36	0.44	-1.92	0	0	0	0	0	0	0	0
12/23/2024 8:50	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 8:52	67702	WERN_T2	266	246	-20	2.36	0.44	-1.92	0	0	0	0	0	0	0	0
12/23/2024 8:52	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 8:53	67702	WERN_T2	266	246	-20	2.36	0.44	-1.92	0	0	0	0	0	0	0	0
12/23/2024 8:53	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 8:54	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/23/2024 8:54	66505	SMAN_T2	0	2	2	0	0.35	0.35	0.02	-0.22	1	2	1	900	1100	200
12/23/2024 8:56	53501	EVIL_T2	3	3	0	0.63	0.53	-0.1	-2.61	-2.02	4	3	-1	2700	2100	-600
12/23/2024 8:56	53502	EVIL_T2	12	13	1	0.68	1.93	1.25	0	0	0	0	0	0	0	0
12/23/2024 8:58	67702	WERN_T2	266	246	-20	2.36	0.44	-1.92	0	0	0	0	0	0	0	0
12/23/2024 8:59	63401	HONY_T1	2	2	0	1.05	1	-0.05	0.47	0.36	1	1	0	600	600	0
12/23/2024 8:59	59101	WALK_T2	0	2	2	0	0	0	2.27	1.76	1	1	0	600	600	0
12/23/2024 9:00	67503	WEWI_T2	2	0	-2	0.1	0	-0.1	0.65	0.58	0	0	0	0	0	0
12/23/2024 9:00	42902	MIDD_T2	31	29	-2	0.52	0.44	-0.08	-0.31	-0.35	0	0	0	0	0	0
12/23/2024 9:00	67702	WERN_T2	246	82	-164	1.41	0.88	-0.53	0	0	0	0	0	0	0	0
12/23/2024 9:00	40503	CRES_T1	2	2	0	0.25	0	-0.25	0	0	0	0	0	0	0	0
12/23/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
12/23/2024 9:00	42901	MIDD_T2	2	10	8	0.25	0.17	-0.08	0	0	0	0	0	0	0	0
12/23/2024 9:00	40504	CRES_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 9:00	42903	MIDD_T2	2	2	0	1.45	1.7	0.25	0	0	0	0	0	0	0	0
12/23/2024 9:00	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 9:01	51903	COPA_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
12/23/2024 9:01	51905	COPA_T1	1	29	28	0.3	0.13	-0.17	-1.57	-1.6	0	0	0	0	0	0
12/23/2024 9:01	51906	COPA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/23/2024 9:01	44502	HAMI_T2	1	2	1	2.8	2.15	-0.65	0	0	0	0	0	0	0	0
12/23/2024 9:01	44505	HAMI_T2	3	2	-1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
12/23/2024 9:04	64802	MONE_T2	1	7	6	0.1	0.14	0.04	0	0	0	0	0	0	0	0
12/23/2024 9:04	64801	MONE_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
12/23/2024 9:06	57201	ROSS_T1	0	4	4	0	0.13	0.13	-2.21	-2.23	0	0	0	0	0	0
12/23/2024 9:08	67702	WERN_T2	246	82	-164	1.41	0.88	-0.53	0	0	0	0	0	0	0	0
12/23/2024 9:08	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 9:09	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/23/2024 9:09	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 9:09	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 9:09	67702	WERN_T2	246	82	-164	1.41	0.88	-0.53	0	0	0	0	0	0	0	0
12/23/2024 9:09	66505	SMAN_T2	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
12/23/2024 9:10	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 9:10	67702	WERN_T2	246	82	-164	1.41	0.88	-0.53	0	0	0	0	0	0	0	0
12/23/2024 9:11	46203	DANV_T2	5	20	15	0.58	0.52	-0.06	-0.87	-0.89	0	0	0	0	0	0
12/23/2024 9:11	46204	DANV_T2	118	119	1	1.31	0.95	-0.36	0	0	0	0	0	0	0	0
12/23/2024 9:11	46206	DANV_T2	12	77	65	0.33	0.42	0.09	0	0	0	0	0	0	0	0
12/23/2024 9:14	63804	HEMP_T1	1	1	0	7.3	7.1	-0.2	0.7	0.71	0	0	0	0	0	0
12/23/2024 9:15	41801	GOCI_T2	4	1	-3	0.58	0.2	-0.38	0	0	0	0	0	0	0	0
12/23/2024 9:18	13503	MCMI_T2	1	2	1	0.3	0.3	0	-0.21	-0.22	0	0	0	0	0	0
12/23/2024 9:18	28403	HART_T2	3	2	-1	0.87	1.7	0.83	-0.46	-0.47	1	1	0	900	900	0
12/23/2024 9:21	55002	NEWP_T1	4	4	0	0.38	0.48	0.1	-0.05	-0.07	0	0	0	0	0	0
12/23/2024 9:24	67702	WERN_T2	82	4	-78	0.44	1.2	0.76	0	0	0	0	0	0	0	0
12/23/2024 9:25	59101	WALK_T2	2	2	0	0.35	0	-0.35	1.9	1.73	1	1	0	600	600	0
12/23/2024 9:25	67702	WERN_T2	82	4	-78	0.44	1.2	0.76	0	0	0	0	0	0	0	0
12/23/2024 9:27	67702	WERN_T2	82	4	-78	0.44	1.2	0.76	0	0	0	0	0	0	0	0
12/23/2024 9:30	51905	COPA_T1	28	47	19	0.13	0.16	0.03	0	0	0	0	0	0	0	0
12/23/2024 9:30	13702	SCHN_T1	2	2	0	0.45	0	-0.45	0	0	0	0	0	0	0	0
12/23/2024 9:30	51903	COPA_T1	5	0	-5	0.42	0	-0.42	0	0	0	0	0	0	0	0
12/23/2024 9:32	42903	MIDD_T2	2	2	0	1.15	1.75	0.6	0	0	0	0	0	0	0	0
12/23/2024 9:32	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.05	-0.1	1	1	0	900	900	0
12/23/2024 9:32	42901	MIDD_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/23/2024 9:32	42902	MIDD_T2	14	12	-2	0.88	0.23	-0.65	-0.7	-0.74	0	0	0	0	0	0
12/23/2024 9:33	26704	HEML_T2	0	0	0	0	0	0	-0.68	-0.68	1	1	0	1200	1200	0
12/23/2024 9:33	26702	HEML_T2	4	2	-2	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/23/2024 9:33	52503	PROG_T2	0	1	1	0	0.1	0.1	0.92	0.77	0	0	0	0	0	0
12/23/2024 9:36	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/23/2024 9:36	52503	PROG_T2	0	1	1	0	0.1	0.1	0.77	0.74	0	0	0	0	0	0
12/23/2024 9:36	42901	MIDD_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/23/2024 9:36	42903	MIDD_T2	2	2	0	1.15	1.75	0.6	0	0	0	0	0	0	0	0
12/23/2024 9:36	42902	MIDD_T2	14	12	-2	0.88	0.23	-0.65	-0.35	-0.37	0	0	0	0	0	0
12/23/2024 9:36	59101	WALK_T2	2	0	-2	0.65	0	-0.65	1.73	1.96	1	1	0	600	600	0
12/23/2024 9:37	66504	SMAN_T2	0	0	0	0	0	0	-0.04	-0.01	0	0	0	0	0	0
12/23/2024 9:37	52503	PROG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/23/2024 9:37	66505	SMAN_T2	3	2	-1	0.57	0.65	0.08	0	0	0	0	0	0	0	0
12/23/2024 9:37	42901	MIDD_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/23/2024 9:37	42903	MIDD_T2	2	2	0	1.15	1.75	0.6	0	0	0	0	0	0	0	0
12/23/2024 9:37	42902	MIDD_T2	14	12	-2	0.88	0.23	-0.65	-0.37	-0.39	0	0	0	0	0	0
12/23/2024 9:37	66502	SMAN_T2	0	0	0	0	0	0	0.46	0.32	0	0	0	0	0	0
12/23/2024 9:37	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/23/2024 9:38	55101	WERT_T1	0	0	0	0	0	0	-4.36	-4.37	8	8	0	6000	6000	0
12/23/2024 9:38	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/23/2024 9:38	66503	SMAN_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
12/23/2024 9:38	66505	SMAN_T2	3	2	-1	0.57	0.65	0.08	0	0	0	0	0	0	0	0
12/23/2024 9:39	44301	BEAV_T2	3	8	5	1.77	1.4	-0.37	0	0	0	0	0	0	0	0
12/23/2024 9:39	66505	SMAN_T2	3	2	-1	0.57	0.65	0.08	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/23/2024 9:39	66504	SMAN_T2	0	0	0	0	0	0	-0.07	-0.02	0	0	0	0	0	0
12/23/2024 9:39	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/23/2024 9:39	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 9:39	67702	WERN_T2	4	2	-2	0.88	1.2	0.32	0	0	0	0	0	0	0	0
12/23/2024 9:39	44302	BEAV_T2	8	41	33	0.11	0.27	0.16	0	0	0	0	0	0	0	0
12/23/2024 9:39	55101	WERT_T1	0	0	0	0	0	0	-1.09	-1.09	2	2	0	1500	1500	0
12/23/2024 9:40	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/23/2024 9:40	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 9:40	66505	SMAN_T2	3	2	-1	0.57	0.65	0.08	0	0	0	0	0	0	0	0
12/23/2024 9:40	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/23/2024 9:40	67702	WERN_T2	4	2	-2	0.88	1.2	0.32	0	0	0	0	0	0	0	0
12/23/2024 9:40	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 9:40	66502	SMAN_T2	0	0	0	0	0	0	0.46	0.32	0	0	0	0	0	0
12/23/2024 9:40	44301	BEAV_T2	3	8	5	1.77	1.4	-0.37	0	0	0	0	0	0	0	0
12/23/2024 9:40	59101	WALK_T2	2	0	-2	0.65	0	-0.65	1.73	1.96	1	1	0	600	600	0
12/23/2024 9:40	44302	BEAV_T2	8	41	33	0.11	0.27	0.16	0.34	0.34	0	0	0	0	0	0
12/23/2024 9:41	55101	WERT_T1	0	0	0	0	0	0	-1.09	-1.09	2	2	0	1500	1500	0
12/23/2024 9:42	53901	HALI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
12/23/2024 9:42	53501	EVIL_T2	1	2	1	0.1	0.3	0.2	-2.15	-2.08	3	3	0	2100	2100	0
12/23/2024 9:42	53902	HALI_T2	1	1	0	5.6	6	0.4	-0.84	-0.86	0	0	0	0	0	0
12/23/2024 9:42	53502	EVIL_T2	12	13	1	1.76	4.1	2.34	0	0	0	0	0	0	0	0
12/23/2024 9:42	53903	HALI_T2	2	3	1	1.15	0.8	-0.35	0	0	0	0	0	0	0	0
12/23/2024 9:43	53903	HALI_T2	2	3	1	1.15	0.8	-0.35	0	0	0	0	0	0	0	0
12/23/2024 9:43	53502	EVIL_T2	12	13	1	1.76	4.1	2.34	0	0	0	0	0	0	0	0
12/23/2024 9:43	53501	EVIL_T2	1	2	1	0.1	0.3	0.2	-2.15	-2.08	3	3	0	2100	2100	0
12/23/2024 9:43	53901	HALI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
12/23/2024 9:43	53902	HALI_T2	1	1	0	5.6	6	0.4	-0.84	-0.86	0	0	0	0	0	0
12/23/2024 9:44	45502	DERR_T2	4	3	-1	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
12/23/2024 9:44	53501	EVIL_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
12/23/2024 9:44	53502	EVIL_T2	12	13	1	1.76	4.1	2.34	0	0	0	0	0	0	0	0
12/23/2024 9:44	45501	DERR_T2	43	7	-36	0.53	0.62	0.09	0.45	0.41	2	2	0	1800	1800	0
12/23/2024 9:45	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.1	-0.16	1	1	0	900	900	0
12/23/2024 9:45	53902	HALI_T2	1	1	0	5.8	6	0.2	-0.84	-0.86	0	0	0	0	0	0
12/23/2024 9:45	53903	HALI_T2	1	3	2	0.3	0.8	0.5	0	0	0	0	0	0	0	0
12/23/2024 9:45	53901	HALI_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/23/2024 9:46	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/23/2024 9:46	54506	ENOL_T2	0	0	0	0	0	0	0.25	0.24	1	0	-1	600	0	-600
12/23/2024 9:46	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/23/2024 9:47	42903	MIDD_T2	2	2	0	1.4	1.75	0.35	0	0	0	0	0	0	0	0
12/23/2024 9:47	53901	HALI_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/23/2024 9:47	13503	MCMI_T2	2	0	-2	0.35	0	-0.35	-0.22	-0.29	0	0	0	0	0	0
12/23/2024 9:47	53902	HALI_T2	1	1	0	5.8	6	0.2	-0.84	-0.86	0	0	0	0	0	0
12/23/2024 9:47	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.1	-0.16	1	1	0	900	900	0
12/23/2024 9:47	42902	MIDD_T2	5	15	10	0.72	0.28	-0.44	-0.37	-0.39	0	0	0	0	0	0
12/23/2024 9:47	42901	MIDD_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/23/2024 9:47	53903	HALI_T2	1	3	2	0.3	0.8	0.5	0	0	0	0	0	0	0	0
12/23/2024 9:49	13503	MCMI_T2	2	0	-2	0.35	0	-0.35	-0.22	-0.29	0	0	0	0	0	0
12/23/2024 9:49	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.1	-0.16	1	1	0	900	900	0
12/23/2024 9:50	14704	TREX_T1	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
12/23/2024 9:50	14705	TREX_T1	0	2	2	0	0	0	-0.21	-0.22	0	0	0	0	0	0
12/23/2024 9:53	57201	ROSS_T1	2	7	5	0.15	0.16	0.01	0	0	0	0	0	0	0	0
12/23/2024 9:53	57203	ROSS_T1	0	0	0	0	0	0	-0.92	-0.26	0	0	0	0	0	0
12/23/2024 9:54	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 9:54	14502	SCHO_T1	1	1	0	6.5	5.8	-0.7	0.46	0.46	0	0	0	0	0	0
12/23/2024 9:54	14501	SCHO_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
12/23/2024 9:54	55101	WERT_T1	0	0	0	0	0	0	-2.19	-2.45	4	4	0	3000	3000	0
12/23/2024 9:55	55101	WERT_T1	0	0	0	0	0	0	-1.09	-1.23	2	2	0	1500	1500	0
12/23/2024 9:55	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 9:56	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 9:56	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 9:56	61101	BERK_T5	4	4	0	0.23	0.3	0.07	-2.33	-1.77	0	0	0	0	0	0
12/23/2024 9:58	52403	GRPA_T2	7	21	14	0.4	0.6	0.2	0	0	0	0	0	0	0	0
12/23/2024 9:58	52404	GRPA_T2	28	7	-21	0.66	0.6	-0.06	0	0	0	0	0	0	0	0
12/23/2024 9:58	52402	GRPA_T2	7	9	2	0.31	0.43	0.12	-0.6	-0.6	0	0	0	0	0	0
12/23/2024 10:00	62604	ENGL_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
12/23/2024 10:00	62605	ENGL_T1	0	0	0	0	0	0	-1.16	-1.14	0	0	0	0	0	0
12/23/2024 10:00	52404	GRPA_T2	7	2	-5	0.74	0.6	-0.14	0	0	0	0	0	0	0	0
12/23/2024 10:00	52402	GRPA_T2	6	11	5	0.32	0.46	0.14	-0.6	-0.6	0	0	0	0	0	0
12/23/2024 10:00	62607	ENGL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/23/2024 10:00	52403	GRPA_T2	15	22	7	0.44	0.76	0.32	0	0	0	0	0	0	0	0
12/23/2024 10:01	58202	NEWV_T1	0	3	3	0	0.13	0.13	0.08	0.02	0	0	0	0	0	0
12/23/2024 10:05	64904	MILL_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
12/23/2024 10:06	64101	REFR_T1	0	0	0	0	0	0	0.41	0.35	0	0	0	0	0	0
12/23/2024 10:07	64101	REFR_T1	0	0	0	0	0	0	0.35	0.4	0	0	0	0	0	0
12/23/2024 10:08	64503	LAVI_T1	0	0	0	0	0	0	-1.15	-1.12	1	1	0	1200	1200	0
12/23/2024 10:08	64502	LAVI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/23/2024 10:09	64101	REFR_T1	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
12/23/2024 10:09	43304	WATS_T2	4	8	4	0.48	0.37	-0.11	0	0	0	0	0	0	0	0
12/23/2024 10:09	43301	WATS_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/23/2024 10:11	46204	DANV_T2	119	119	0	1.4	0.61	-0.79	0	0	0	0	0	0	0	0
12/23/2024 10:11	46203	DANV_T2	9	6	-3	0.57	0.1	-0.47	-0.97	-0.92	0	0	0	0	0	0
12/23/2024 10:11	46206	DANV_T2	85	98	13	0.64	0.46	-0.18	0	0	0	0	0	0	0	0
12/23/2024 10:13	46204	DANV_T2	119	119	0	1.4	0.61	-0.79	-0.42	-0.41	1	1	0	1200	1200	0
12/23/2024 10:13	46203	DANV_T2	9	6	-3	0.57	0.1	-0.47	0	0	0	0	0	0	0	0
12/23/2024 10:13	46206	DANV_T2	85	98	13	0.64	0.46	-0.18	0	0	0	0	0	0	0	0
12/23/2024 10:13	51905	COPA_T1	47	14	-33	0.16	0.11	-0.05	-1.61	-1.63	0	0	0	0	0	0
12/23/2024 10:13	62605	ENGL_T1	0	0	0	0	0	0	-1.14	-1.13	0	0	0	0	0	0
12/23/2024 10:13	51903	COPA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 10:13	62607	ENGL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/23/2024 10:13	62604	ENGL_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
12/23/2024 10:16	62605	ENGL_T1	0	0	0	0	0	0	-1.14	-1.13	0	0	0	0	0	0
12/23/2024 10:16	13902	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 10:16	13904	SEID_T1	64	60	-4	1	0.8	-0.2	0	0	0	0	0	0	0	0
12/23/2024 10:16	62607	ENGL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/23/2024 10:16	62604	ENGL_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
12/23/2024 10:17	65502	MOID_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 10:18	52102	MEIS_T1	1	2	1	0.2	0.1	-0.1	0	0	1	1	0	450	450	0
12/23/2024 10:20	58202	NEWV_T1	1	9	8	0.1	0.18	0.08	0.01	0.07	0	0	0	0	0	0
12/23/2024 10:26	53502	EVIL_T2	12	15	3	2.01	2.11	0.1	0	0	0	0	0	0	0	0
12/23/2024 10:26	11104	EGYP_T1	4	6	2	0.38	0.45	0.07	0	0	0	0	0	0	0	0
12/23/2024 10:26	53501	EVIL_T2	0	0	0	0	0	0	-6.39	-6.67	9	9	0	6300	6300	0
12/23/2024 10:26	11103	EGYP_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 10:26	11101	EGYP_T1	1	2	1	3.5	0.5	-3	-0.53	-0.57	1	1	0	1200	1200	0
12/23/2024 10:28	10801	CHHI_T1	5	35	30	0.76	0.63	-0.13	-1.48	-1.5	3	3	0	2100	2100	0
12/23/2024 10:29	45802	HEGI_T2	47	41	-6	1.8	0.84	-0.96	0	0	0	0	0	0	0	0
12/23/2024 10:29	53501	EVIL_T2	0	0	0	0	0	0	-2.13	-2.22	3	3	0	2100	2100	0
12/23/2024 10:29	53502	EVIL_T2	12	15	3	2.01	2.11	0.1	0	0	0	0	0	0	0	0
12/23/2024 10:30	53501	EVIL_T2	0	1	1	0	0.5	0.5	-2.13	-2.22	3	3	0	2100	2100	0
12/23/2024 10:30	53502	EVIL_T2	15	14	-1	2.36	0.84	-1.52	0.2	0.19	2	2	0	1200	1200	0
12/23/2024 10:32	58401	MORO_T1	0	0	0	0	0	0	-4.75	-4.8	4	4	0	2400	2400	0
12/23/2024 10:33	46501	LOHA_T1	20	10	-10	0.9	1.2	0.3	0	0	0	0	0	0	0	0
12/23/2024 10:33	46506	LOHA_T1	3	3	0	0.73	2.43	1.7	-1.02	-1.04	1	1	0	900	900	0
12/23/2024 10:33	46504	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 10:39	64101	REFR_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
12/23/2024 10:42	45502	DERR_T2	2	7	5	0.1	0.26	0.16	0	0	0	0	0	0	0	0
12/23/2024 10:42	45501	DERR_T2	2	3	1	0.4	0.8	0.4	0.43	0.42	2	2	0	1800	1800	0
12/23/2024 10:44	45502	DERR_T2	2	7	5	0.1	0.26	0.16	0	0	0	0	0	0	0	0
12/23/2024 10:44	50201	HARR_T3	4	1	-3	1.6	5.8	4.2	0	0	0	0	0	0	0	0
12/23/2024 10:44	50105	HARR_T3	19	21	2	3.07	3.43	0.36	0	0	0	0	0	0	0	0
12/23/2024 10:44	50106	HARR_T3	8	10	2	0.41	0.6	0.19	0	0	0	0	0	0	0	0
12/23/2024 10:44	45501	DERR_T2	2	3	1	0.4	0.8	0.4	0.43	0.42	2	2	0	1800	1800	0
12/23/2024 10:44	50202	HARR_T3	10	15	5	0.32	0.37	0.05	-0.15	-0.16	0	0	0	0	0	0
12/23/2024 10:44	50102	HARR_T3	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
12/23/2024 10:46	65903	SAKR_T2	0	0	0	0	0	0	-1.63	-1.68	6	6	0	4200	4200	0
12/23/2024 10:49	65903	SAKR_T2	0	0	0	0	0	0	-0.81	-0.84	3	3	0	2100	2100	0
12/23/2024 10:50	54701	NEBL_T1	1	2	1	0.4	0.45	0.05	0	0	1	1	0	600	600	0
12/23/2024 10:50	64101	REFR_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
12/23/2024 10:53	55105	WERT_T1	0	0	0	0	0	0	-0.24	-0.15	1	1	0	900	900	0
12/23/2024 10:57	47101	MARL_T1	176	143	-33	0.91	0.95	0.04	-0.9	-0.87	1	1	0	600	600	0
12/23/2024 11:00	65903	SAKR_T2	0	0	0	0	0	0	-0.84	-0.8	3	3	0	2100	2100	0
12/23/2024 11:02	52402	GRPA_T2	7	7	0	0.29	0.52	0.23	0	0	0	0	0	0	0	0
12/23/2024 11:02	52403	GRPA_T2	27	23	-4	0.89	1	0.11	-0.46	-0.38	0	0	0	0	0	0
12/23/2024 11:02	65903	SAKR_T2	0	0	0	0	0	0	-1.68	-1.6	6	6	0	4200	4200	0
12/23/2024 11:02	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 11:02	52401	GRPA_T2	1	3	2	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
12/23/2024 11:05	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 11:05	66203	SISP_T2	0	0	0	0	0	0	-0.93	-0.96	2	2	0	1800	1800	0
12/23/2024 11:06	65205	PRIN_T1	1	2	1	1.4	0.7	-0.7	0	0	0	0	0	0	0	0
12/23/2024 11:07	44902	SCOT_T2	21	140	119	0.14	0.14	0	-0.81	-0.78	0	0	0	0	0	0
12/23/2024 11:08	43304	WATS_T2	23	10	-13	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
12/23/2024 11:08	64101	REFR_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
12/23/2024 11:09	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 11:10	43304	WATS_T2	23	10	-13	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
12/23/2024 11:11	64203	KINZ_T1	11	11	0	1.04	0.99	-0.05	0	0	0	0	0	0	0	0
12/23/2024 11:11	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 11:11	64204	KINZ_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
12/23/2024 11:11	62607	ENGL_T1	1	1	0	0.5	0.6	0.1	-0.58	-0.57	0	0	0	0	0	0
12/23/2024 11:11	62604	ENGL_T1	3	5	2	0.23	0.28	0.05	0	0	0	0	0	0	0	0
12/23/2024 11:11	62605	ENGL_T1	2	4	2	0.15	0.2	0.05	0	0	0	0	0	0	0	0
12/23/2024 11:11	62606	ENGL_T1	24	55	31	0.1	0.1	0	0	0	0	0	0	0	0	0
12/23/2024 11:12	14601	SWHI_T1	0	0	0	0	0	0	-1.22	-1.2	0	0	0	0	0	0
12/23/2024 11:12	14603	SWHI_T1	1	1	0	0.2	1.2	1	0	0	0	0	0	0	0	0
12/23/2024 11:14	64101	REFR_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
12/23/2024 11:15	62606	ENGL_T1	0	57	57	0	0.12	0.12	0	0	0	0	0	0	0	0
12/23/2024 11:15	62604	ENGL_T1	4	6	2	0.23	0.28	0.05	0	0	0	0	0	0	0	0
12/23/2024 11:15	62607	ENGL_T1	1	1	0	0.5	0.6	0.1	-0.58	-0.57	0	0	0	0	0	0
12/23/2024 11:15	62605	ENGL_T1	2	5	3	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/23/2024 11:18	54203	PENN_T1	197	345	148	0.33	0.32	-0.01	0.12	0.17	0	0	0	0	0	0
12/23/2024 11:18	54201	PENN_T1	234	279	45	0.48	0.55	0.07	0	0	0	0	0	0	0	0
12/23/2024 11:18	54205	PENN_T1	44	57	13	0.1	0.37	0.27	0	0	0	0	0	0	0	0
12/23/2024 11:19	54205	PENN_T1	44	57	13	0.1	0.37	0.27	0	0	0	0	0	0	0	0
12/23/2024 11:19	54201	PENN_T1	234	279	45	0.48	0.55	0.07	-1.33	-1.35	0	0	0	0	0	0
12/23/2024 11:19	54203	PENN_T1	197	345	148	0.33	0.32	-0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/23/2024 11:20	14203	EALL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 11:20	54203	PENN_T1	197	345	148	0.33	0.32	-0.01	0.12	0.17	0	0	0	0	0	0
12/23/2024 11:20	54205	PENN_T1	44	57	13	0.1	0.37	0.27	0	0	0	0	0	0	0	0
12/23/2024 11:20	14201	EALL_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
12/23/2024 11:20	54201	PENN_T1	234	279	45	0.48	0.55	0.07	0	0	0	0	0	0	0	0
12/23/2024 11:21	54203	PENN_T1	197	345	148	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
12/23/2024 11:21	54201	PENN_T1	234	279	45	0.48	0.55	0.07	-1.35	-1.36	0	0	0	0	0	0
12/23/2024 11:21	67401	WAKE_T2	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
12/23/2024 11:21	54205	PENN_T1	44	57	13	0.1	0.37	0.27	0	0	0	0	0	0	0	0
12/23/2024 11:21	67402	WAKE_T2	0	1	1	0	0.2	0.2	0.45	0.43	0	0	0	0	0	0
12/23/2024 11:26	10801	CHHI_T1	16	5	-11	0.69	0.77	0.08	-1.54	-1.63	3	3	0	2100	2100	0
12/23/2024 11:27	67402	WAKE_T2	0	1	1	0	0.2	0.2	0.43	0.43	0	0	0	0	0	0
12/23/2024 11:27	67401	WAKE_T2	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
12/23/2024 11:30	52004	LING_T2	2	2	0	3.4	3.6	0.2	0.18	0.17	0	0	0	0	0	0
12/23/2024 11:31	55002	NEWP_T1	3	5	2	0.9	0.8	-0.1	-0.1	-0.1	0	0	0	0	0	0
12/23/2024 11:31	53902	HALI_T2	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
12/23/2024 11:31	53903	HALI_T2	3	2	-1	0.97	0.7	-0.27	0	0	0	0	0	0	0	0
12/23/2024 11:31	53901	HALI_T2	1	1	0	0.5	0.4	-0.1	-1.19	-1.18	0	0	0	0	0	0
12/23/2024 11:32	52402	GRPA_T2	5	8	3	0.52	0.67	0.15	0	0	0	0	0	0	0	0
12/23/2024 11:32	52403	GRPA_T2	22	28	6	1	0.93	-0.07	-0.4	-0.43	0	0	0	0	0	0
12/23/2024 11:32	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/23/2024 11:32	52401	GRPA_T2	2	1	-1	0.35	0.9	0.55	0	0	0	0	0	0	0	0
12/23/2024 11:33	52004	LING_T2	2	2	0	3.4	3.6	0.2	0.36	0.35	0	0	0	0	0	0
12/23/2024 11:33	63803	HEMP_T1	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
12/23/2024 11:33	63802	HEMP_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/23/2024 11:33	63804	HEMP_T1	3	9	6	2.33	6.7	4.37	0.81	0.83	0	0	0	0	0	0
12/23/2024 11:33	63801	HEMP_T1	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
12/23/2024 11:34	64301	LINC_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/23/2024 11:34	64305	LINC_T1	2	1	-1	0.75	1.2	0.45	-0.25	-0.15	0	0	0	0	0	0
12/23/2024 11:34	52502	PROG_T2	0	0	0	0	0	0	-0.46	-0.42	2	2	0	1800	1800	0
12/23/2024 11:35	55002	NEWP_T1	3	5	2	0.9	0.8	-0.1	-0.1	-0.1	0	0	0	0	0	0
12/23/2024 11:36	55002	NEWP_T1	3	5	2	0.9	0.8	-0.1	-0.2	-0.2	0	0	0	0	0	0
12/23/2024 11:36	52502	PROG_T2	0	0	0	0	0	0	-0.21	0.7	1	1	0	900	900	0
12/23/2024 11:37	52502	PROG_T2	0	0	0	0	0	0	-0.21	0.7	1	0	-1	900	0	-900
12/23/2024 11:38	64101	REFR_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
12/23/2024 11:39	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 11:39	44901	SCOT_T2	0	10	10	0	0.22	0.22	0.12	0.07	0	0	0	0	0	0
12/23/2024 11:39	44902	SCOT_T2	137	487	350	0.14	0.39	0.25	0	0	0	0	0	0	0	0
12/23/2024 11:39	44905	SCOT_T1	4	1	-3	0.38	0	-0.38	0	0	0	0	0	0	0	0
12/23/2024 11:40	44301	BEAV_T2	10	11	1	0.55	0.68	0.13	0	0	0	0	0	0	0	0
12/23/2024 11:40	44302	BEAV_T2	151	247	96	0.4	0.48	0.08	0.95	0.75	0	0	0	0	0	0
12/23/2024 11:40	64101	REFR_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
12/23/2024 11:42	44302	BEAV_T2	151	247	96	0.4	0.48	0.08	0	0	0	0	0	0	0	0
12/23/2024 11:42	44301	BEAV_T2	10	11	1	0.55	0.68	0.13	0	0	0	0	0	0	0	0
12/23/2024 11:43	21504	CEAV_T1	0	0	0	0	0	0	-0.86	-0.85	1	1	0	1200	1200	0
12/23/2024 11:44	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/23/2024 11:44	52401	GRPA_T2	2	1	-1	0.35	0.9	0.55	0	0	0	0	0	0	0	0
12/23/2024 11:44	52402	GRPA_T2	5	8	3	0.52	0.67	0.15	0	0	0	0	0	0	0	0
12/23/2024 11:44	52403	GRPA_T2	22	28	6	1	0.93	-0.07	-0.43	0.1	0	0	0	0	0	0
12/23/2024 11:45	61304	EARL_T1	0	0	0	0	0	0	-0.47	-0.59	1	1	0	600	600	0
12/23/2024 11:45	20601	GRWO_T2	36	34	-2	0.72	0.77	0.05	0	0	0	0	0	0	0	0
12/23/2024 11:45	40701	FFLD_T1	31	30	-1	0.45	0.63	0.18	0	0	0	0	0	0	0	0
12/23/2024 11:45	40703	FFLD_T1	4	4	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
12/23/2024 11:45	40702	FFLD_T1	10	45	35	0.3	0.19	-0.11	-0.97	-1.01	1	1	0	1200	1200	0
12/23/2024 11:45	20603	GRWO_T2	22	29	7	2.78	1.7	-1.08	-0.34	-0.38	1	1	0	900	900	0
12/23/2024 11:46	40702	FFLD_T1	10	45	35	0.3	0.19	-0.11	0	0	0	0	0	0	0	0
12/23/2024 11:46	40703	FFLD_T1	4	4	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
12/23/2024 11:46	40701	FFLD_T1	31	30	-1	0.45	0.63	0.18	0	0	0	0	0	0	0	0
12/23/2024 11:46	46802	HEPB_T1	1	2	1	1.8	1.05	-0.75	-1.11	-1.15	0	0	0	0	0	0
12/23/2024 11:47	54701	NEBL_T1	1	4	3	1.3	0.43	-0.87	0	0	1	1	0	600	600	0
12/23/2024 11:47	58401	MORO_T1	0	0	0	0	0	0	-1.74	-1.75	1	1	0	600	600	0
12/23/2024 11:52	57201	ROSS_T1	3	8	5	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
12/23/2024 11:52	57205	ROSS_T1	1	1	0	0.4	0.5	0.1	-0.04	-0.04	0	0	0	0	0	0
12/23/2024 11:53	67702	WERN_T2	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
12/23/2024 11:53	67703	WERN_T2	0	1	1	0	0	0	0.26	0.04	0	0	0	0	0	0
12/23/2024 11:54	67702	WERN_T2	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
12/23/2024 11:54	67703	WERN_T2	0	1	1	0	0	0	0.26	0.04	0	0	0	0	0	0
12/23/2024 11:54	60701	BREC_T1	2	5	3	0.3	0.5	0.2	-0.63	-0.86	2	2	0	1200	1200	0
12/23/2024 11:55	60701	BREC_T1	2	5	3	0.3	0.5	0.2	-0.63	-0.86	2	2	0	1200	1200	0
12/23/2024 11:55	67703	WERN_T2	0	1	1	0	0	0	0.26	0.04	0	0	0	0	0	0
12/23/2024 11:55	67702	WERN_T2	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
12/23/2024 11:56	67703	WERN_T2	0	1	1	0	0	0	0.26	0.04	0	0	0	0	0	0
12/23/2024 11:56	60701	BREC_T1	2	5	3	0.3	0.5	0.2	-0.63	-0.86	2	2	0	1200	1200	0
12/23/2024 11:56	67702	WERN_T2	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
12/23/2024 11:57	67702	WERN_T2	1	1	0	2	1.8	-0.2	0	0	0	0	0	0	0	0
12/23/2024 11:57	67703	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 11:58	10801	CHHI_T1	4	3	-1	0.7	1.05	0.35	-1.25	-1.29	2	2	0	1500	1500	0
12/23/2024 11:59	60701	BREC_T1	2	5	3	0.3	0.5	0.2	-1.26	-1.71	4	4	0	2400	2400	0
12/23/2024 12:02	58402	MORO_T1	0	0	0	0	0	0	-2.33	-2.37	6	6	0	4800	4800	0
12/23/2024 12:03	58402	MORO_T1	0	0	0	0	0	0	-1.16	-1.19	3	3	0	2400	2400	0
12/23/2024 12:05	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/23/2024 12:05	54205	PENN_T1	57	62	5	0.34	0.39	0.05	0	0	0	0	0	0	0	0
12/23/2024 12:05	54203	PENN_T1	270	349	79	0.31	0.34	0.03	0.77	0.8	0	0	0	0	0	0
12/23/2024 12:05	54201	PENN_T1	248	262	14	0.52	0.54	0.02	0	0	0	0	0	0	0	0
12/23/2024 12:07	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/23/2024 12:08	64101	REFR_T1	0	1	1	0	0.3	0.3	0.15	0.12	0	0	0	0	0	0
12/23/2024 12:09	67002	STHI_T2	3	50	47	0.2	0.19	-0.01	0.74	0.78	0	0	0	0	0	0
12/23/2024 12:09	67001	STHI_T2	1	137	136	0.7	0.14	-0.56	0.21	0.23	0	0	0	0	0	0
12/23/2024 12:10	67001	STHI_T2	1	137	136	0.7	0.14	-0.56	0	0	0	0	0	0	0	0
12/23/2024 12:10	67002	STHI_T2	3	50	47	0.2	0.19	-0.01	1.49	1.56	0	0	0	0	0	0
12/23/2024 12:11	67001	STHI_T2	1	137	136	0.7	0.14	-0.56	0	0	0	0	0	0	0	0
12/23/2024 12:11	67002	STHI_T2	3	50	47	0.2	0.19	-0.01	0.74	0.78	0	0	0	0	0	0
12/23/2024 12:11	60701	BREC_T1	5	5	0	0.44	0.5	0.06	-0.86	-0.26	2	1	-1	1200	600	-600
12/23/2024 12:12	67002	STHI_T2	3	50	47	0.2	0.19	-0.01	0.74	0.78	0	0	0	0	0	0
12/23/2024 12:12	67001	STHI_T2	1	137	136	0.7	0.14	-0.56	0	0	0	0	0	0	0	0
12/23/2024 12:15	45802	HEGI_T2	20	46	26	0.6	1.69	1.09	0.31	0.12	1	1	0	900	900	0
12/23/2024 12:16	45802	HEGI_T2	20	46	26	0.6	1.69	1.09	0	0	0	0	0	0	0	0
12/23/2024 12:18	45802	HEGI_T2	20	46	26	0.6	1.69	1.09	0.31	0.12	1	1	0	900	900	0
12/23/2024 12:19	42902	MIDD_T2	2	3	1	0.3	0.1	-0.2	-2.14	-2.16	2	2	0	1200	1200	0
12/23/2024 12:19	42903	MIDD_T2	2	1	-1	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
12/23/2024 12:20	42902	MIDD_T2	2	3	1	0.3	0.1	-0.2	-1.07	-1.08	1	1	0	600	600	0
12/23/2024 12:20	42903	MIDD_T2	2	1	-1	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
12/23/2024 12:21	42902	MIDD_T2	2	3	1	0.3	0.1	-0.2	-1.07	-1.08	1	1	0	600	600	0
12/23/2024 12:21	42903	MIDD_T2	2	1	-1	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
12/23/2024 12:22	66902	SHIL_T2	0	0	0	0	0	0	-3.74	-3.78	0	0	0	0	0	0
12/23/2024 12:23	66902	SHIL_T2	0	0	0	0	0	0	-1.87	-1.89	0	0	0	0	0	0
12/23/2024 12:23	66901	SHIL_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
12/23/2024 12:26	58701	ROSE_T2	0	0	0	0	0	0	-0.14	-0.13	1	1	0	600	600	0
12/23/2024 12:26	67001	STHI_T2	17	137	120	0.24	0.14	-0.1	0	0	0	0	0	0	0	0
12/23/2024 12:26	58705	ROSE_T2	5	5	0	2.32	2.32	0	0	0	0	0	0	0	0	0
12/23/2024 12:26	67002	STHI_T2	21	51	30	0.2	0.19	-0.01	0.78	0.76	0	0	0	0	0	0
12/23/2024 12:26	58706	ROSE_T2	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
12/23/2024 12:27	67703	WERN_T2	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
12/23/2024 12:27	67702	WERN_T2	1	2	1	1.8	1	-0.8	0	0	0	0	0	0	0	0
12/23/2024 12:28	67702	WERN_T2	1	2	1	1.8	1	-0.8	0	0	0	0	0	0	0	0
12/23/2024 12:28	67703	WERN_T2	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
12/23/2024 12:29	40703	FFLD_T1	4	4	0	0.45	0.63	0.18	0	0	0	0	0	0	0	0
12/23/2024 12:29	40702	FFLD_T1	44	73	29	0.19	0.23	0.04	0	0	0	0	0	0	0	0
12/23/2024 12:29	40701	FFLD_T1	30	31	1	0.6	0.64	0.04	0	0	0	0	0	0	0	0
12/23/2024 12:31	63501	HEID_TBK1-2	40	28	-12	0.46	0.23	-0.23	-0.24	-0.18	1	1	0	900	900	0
12/23/2024 12:33	20603	GRWO_T2	21	21	0	4.42	4.01	-0.41	0	0	0	0	0	0	0	0
12/23/2024 12:33	64802	MONE_T2	7	14	7	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
12/23/2024 12:33	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/23/2024 12:33	20601	GRWO_T2	45	36	-9	0.66	0.53	-0.13	0.12	0.1	0	0	0	0	0	0
12/23/2024 12:33	63501	HEID_TBK1-2	40	28	-12	0.46	0.23	-0.23	-0.24	-0.18	1	1	0	900	900	0
12/23/2024 12:34	64802	MONE_T2	7	14	7	0.3	0.24	-0.06	0.16	0.14	0	0	0	0	0	0
12/23/2024 12:34	63501	HEID_TBK1-2	40	28	-12	0.46	0.23	-0.23	-0.24	-0.18	1	1	0	900	900	0
12/23/2024 12:34	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/23/2024 12:35	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/23/2024 12:35	64802	MONE_T2	7	14	7	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
12/23/2024 12:44	54505	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/23/2024 12:44	54504	ENOL_T2	0	0	0	0	0	0	-0.94	-0.94	1	1	0	600	600	0
12/23/2024 12:47	64802	MONE_T2	9	17	8	0.24	0.25	0.01	0	0	0	0	0	0	0	0
12/23/2024 12:47	64801	MONE_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
12/23/2024 12:52	48301	ORWI_T1	2	4	2	5.4	2.9	-2.5	-0.54	-0.54	1	1	0	900	900	0
12/23/2024 12:54	64101	REFR_T1	1	1	0	0.1	0.1	0	0.08	0.1	0	0	0	0	0	0
12/23/2024 12:56	62606	ENGL_T1	12	62	50	0.1	0.17	0.07	0	0	0	0	0	0	0	0
12/23/2024 12:56	62607	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/23/2024 12:56	62604	ENGL_T1	5	13	8	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
12/23/2024 12:56	62605	ENGL_T1	3	13	10	0.27	0.15	-0.12	-1.14	-1.14	0	0	0	0	0	0
12/23/2024 12:56	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 12:58	62604	ENGL_T1	5	13	8	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
12/23/2024 12:58	62605	ENGL_T1	3	13	10	0.27	0.15	-0.12	-1.14	-1.14	0	0	0	0	0	0
12/23/2024 12:58	62607	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/23/2024 12:58	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 12:58	62606	ENGL_T1	12	62	50	0.1	0.17	0.07	0	0	0	0	0	0	0	0
12/23/2024 13:14	46203	DANV_T2	2	0	-2	0.3	0	-0.3	-0.33	-0.39	0	0	0	0	0	0
12/23/2024 13:20	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
12/23/2024 13:20	65207	PRIN_T4	1	6	5	0.8	0.28	-0.52	0	0	0	0	0	0	0	0
12/23/2024 13:20	65206	PRIN_T4	2	1	-1	0.3	1.1	0.8	0	0	0	0	0	0	0	0
12/23/2024 13:22	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0.76	0.75	0	0	0	0	0	0
12/23/2024 13:22	14802	TREI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/23/2024 13:23	57704	PAXT_T2	6	3	-3	0.18	0.27	0.09	0	0	0	0	0	0	0	0
12/23/2024 13:23	57703	PAXT_T2	179	183	4	0.44	0.46	0.02	0	0	0	0	0	0	0	0
12/23/2024 13:45	53502	EVIL_T2	1	12	11	0.1	1.2	1.1	0.06	0.06	2	2	0	1200	1200	0
12/23/2024 13:45	53501	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 13:49	22803	HAUT_T2	35	42	7	1.1	1.26	0.16	0	0	0	0	0	0	0	0
12/23/2024 13:49	22805	HAUT_T2	128	156	28	1.08	1.02	-0.06	0	0	0	0	0	0	0	0
12/23/2024 14:00	11302	EMMA_T1	8	6	-2	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
12/23/2024 14:00	11303	EMMA_T1	0	0	0	0	0	0	-1.15	-1.16	0	0	0	0	0	0
12/23/2024 14:02	11301	EMMA_T1	0	0	0	0	0	0	-0.6	-0.56	0	0	0	0	0	0
12/23/2024 14:02	11302	EMMA_T1	8	6	-2	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
12/23/2024 14:07	57201	ROSS_T1	0	1	1	0	0.1	0.1	-1.12	-1.13	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/23/2024 14:08	57201	ROSS_T1	0	1	1	0	0.1	0.1	-1.12	-1.13	0	0	0	0	0	0
12/23/2024 14:09	57201	ROSS_T1	0	1	1	0	0.1	0.1	-1.12	-1.13	0	0	0	0	0	0
12/23/2024 14:19	64501	LAVI_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
12/23/2024 14:19	64503	LAVI_T1	0	12	12	0	0.28	0.28	0	0	0	0	0	0	0	0
12/23/2024 14:19	64502	LAVI_T1	1	132	131	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
12/23/2024 14:34	24103	EHAZ_T1	4	6	2	0.85	0.67	-0.18	-0.26	-0.25	0	0	0	0	0	0
12/23/2024 14:34	24101	EHAZ_T1	87	109	22	1.8	1.54	-0.26	0	0	0	0	0	0	0	0
12/23/2024 14:34	24105	EHAZ_T1	16	24	8	2.11	1.99	-0.12	0	0	0	0	0	0	0	0
12/23/2024 14:34	24102	EHAZ_T1	34	33	-1	1.14	1.01	-0.13	0	0	0	0	0	0	0	0
12/23/2024 14:35	63501	HEID_TBK1-2	13	35	22	0.16	0.33	0.17	-0.29	-0.34	1	1	0	900	900	0
12/23/2024 14:47	42902	MIDD_T2	23	8	-15	0.28	0.14	-0.14	0	0	0	0	0	0	0	0
12/23/2024 14:47	42901	MIDD_T2	32	1	-31	0.16	0.2	0.04	0	0	0	0	0	0	0	0
12/23/2024 14:47	42903	MIDD_T2	2	2	0	1.75	1.15	-0.6	0	0	0	0	0	0	0	0
12/23/2024 14:49	44201	POIN_T1	21	12	-9	0.11	0.13	0.02	-1.92	-1.98	2	2	0	2100	2100	0
12/23/2024 14:54	67703	WERN_T2	0	0	0	0	0	0	-1.27	-1.24	0	0	0	0	0	0
12/23/2024 14:55	59101	WALK_T2	0	0	0	0	0	0	1.42	1.49	1	1	0	600	600	0
12/23/2024 15:14	60902	DONG_T2	0	0	0	0	0	0	0.66	0.59	0	0	0	0	0	0
12/23/2024 15:17	42902	MIDD_T2	5	1	-4	0.26	0.1	-0.16	-0.32	-0.31	0	0	0	0	0	0
12/23/2024 15:17	42903	MIDD_T2	2	3	1	1.1	1.1	0	0	0	0	0	0	0	0	0
12/23/2024 15:17	42901	MIDD_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/23/2024 15:34	55002	NEWP_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
12/23/2024 15:45	52004	LING_T2	4	4	0	1.68	1.6	-0.08	0.17	0.2	0	0	0	0	0	0
12/23/2024 15:54	52102	MEIS_T1	1	12	11	0.5	0.17	-0.33	0	1	1	1	0	450	450	0
12/23/2024 15:54	52101	MEIS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/23/2024 15:58	44505	HAMI_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
12/23/2024 15:58	44502	HAMI_T2	1	1	0	2.8	2.9	0.1	0	0	0	0	0	0	0	0
12/23/2024 16:01	44502	HAMI_T2	1	1	0	2.7	3.2	0.5	0	0	0	0	0	0	0	0
12/23/2024 16:01	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 16:01	44501	HAMI_T2	0	9	9	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 16:11	60801	BUCK_T1	0	0	0	0	0	0	-0.54	-0.52	1	1	0	600	600	0
12/23/2024 18:12	14201	EALL_T1	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
12/23/2024 18:28	14704	TREX_T1	1	1	0	7.9	7.6	-0.3	0	0	0	0	0	0	0	0
12/23/2024 18:28	14705	TREX_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
12/23/2024 18:29	26704	HEML_T2	0	1	1	0	0	0	-0.78	-0.74	1	1	0	1200	1200	0
12/23/2024 18:31	13503	MCMI_T2	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
12/23/2024 18:34	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:34	46204	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/23/2024 18:34	14602	SWHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/23/2024 18:34	14605	SWHI_T1	1	1	0	1.5	0.3	-1.2	0	0	0	0	0	0	0	0
12/23/2024 18:34	14601	SWHI_T1	0	0	0	0	0	0	-1.19	-1.21	0	0	0	0	0	0
12/23/2024 18:34	46203	DANV_T2	14	15	1	0.92	0.71	-0.21	-1.18	-1.15	0	0	0	0	0	0
12/23/2024 18:34	11301	EMMA_T1	0	0	0	0	0	0	-0.6	-0.5	0	0	0	0	0	0
12/23/2024 18:35	13503	MCMI_T2	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
12/23/2024 18:36	14801	TREI_T2	1	1	0	1.4	0.7	-0.7	0.95	0.89	0	0	0	0	0	0
12/23/2024 18:38	11303	EMMA_T1	0	0	0	0	0	0	-1.1	-1.09	0	0	0	0	0	0
12/23/2024 18:38	10801	CHHI_T1	12	3	-9	0.38	0.2	-0.18	-1.21	-1.21	2	2	0	1500	1500	0
12/23/2024 18:38	21504	CEAV_T1	0	0	0	0	0	0	-0.89	-0.88	1	1	0	1200	1200	0
12/23/2024 18:39	40703	FFLD_T1	4	4	0	0.63	0.83	0.2	0	0	0	0	0	0	0	0
12/23/2024 18:39	40702	FFLD_T1	98	147	49	0.26	0.45	0.19	-1.29	-0.7	1	1	0	1200	1200	0
12/23/2024 18:39	40701	FFLD_T1	27	46	19	0.66	0.63	-0.03	0	0	0	0	0	0	0	0
12/23/2024 18:40	11102	EGYP_T1	6	8	2	0.4	0.4	0	0	0	0	0	0	0	0	0
12/23/2024 18:40	11101	EGYP_T1	1	1	0	1.7	1.1	-0.6	-0.62	-0.59	1	1	0	1200	1200	0
12/23/2024 18:40	67002	STHI_T2	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
12/23/2024 18:40	40702	FFLD_T1	98	147	49	0.26	0.45	0.19	0	0	0	0	0	0	0	0
12/23/2024 18:40	10801	CHHI_T1	12	3	-9	0.38	0.2	-0.18	-1.21	-1.21	2	2	0	1500	1500	0
12/23/2024 18:40	11103	EGYP_T1	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
12/23/2024 18:40	67001	STHI_T2	1	2	1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
12/23/2024 18:40	40701	FFLD_T1	27	46	19	0.66	0.63	-0.03	0	0	0	0	0	0	0	0
12/23/2024 18:40	46203	DANV_T2	14	15	1	0.92	0.71	-0.21	-1.15	-1.16	0	0	0	0	0	0
12/23/2024 18:40	11104	EGYP_T1	6	3	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
12/23/2024 18:40	46204	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/23/2024 18:40	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:40	40703	FFLD_T1	4	4	0	0.63	0.83	0.2	0	0	0	0	0	0	0	0
12/23/2024 18:41	13503	MCMI_T2	0	0	0	0	0	0	-0.33	-0.29	0	0	0	0	0	0
12/23/2024 18:41	43304	WATS_T2	24	31	7	0.61	0.5	-0.11	0	0	0	0	0	0	0	0
12/23/2024 18:42	44502	HAMI_T2	1	3	2	2.2	1.9	-0.3	0	0	0	0	0	0	0	0
12/23/2024 18:42	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:42	13902	SEID_T1	6	2	-4	0.97	0	-0.97	0	0	0	0	0	0	0	0
12/23/2024 18:42	64501	LAVI_T1	51	94	43	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/23/2024 18:42	64502	LAVI_T1	262	303	41	0.4	0.57	0.17	0	0	0	0	0	0	0	0
12/23/2024 18:42	13904	SEID_T1	54	47	-7	1.22	1.49	0.27	0	0	0	0	0	0	0	0
12/23/2024 18:42	46203	DANV_T2	14	15	1	0.92	0.71	-0.21	0	0	0	0	0	0	0	0
12/23/2024 18:42	66902	SHIL_T2	0	0	0	0	0	0	-1.85	-1.85	0	0	0	0	0	0
12/23/2024 18:42	44505	HAMI_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
12/23/2024 18:42	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:42	64503	LAVI_T1	35	38	3	0.6	0.74	0.14	-0.8	-0.86	1	1	0	1200	1200	0
12/23/2024 18:42	46204	DANV_T2	0	1	1	0	0.1	0.1	-0.43	-0.45	1	1	0	1200	1200	0
12/23/2024 18:42	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:44	67001	STHI_T2	1	2	1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
12/23/2024 18:44	67002	STHI_T2	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
12/23/2024 18:45	67703	WERN_T2	0	0	0	0	0	0	-1.56	-1.57	0	0	0	0	0	0
12/23/2024 18:45	45501	DERR_T2	14	6	-8	0.49	0.45	-0.04	0.32	0.34	2	2	0	1800	1800	0
12/23/2024 18:45	45502	DERR_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
12/23/2024 18:47	66902	SHIL_T2	0	0	0	0	0	0	-3.7	-3.7	0	0	0	0	0	0
12/23/2024 18:47	44201	POIN_T1	63	50	-13	0.28	0.18	-0.1	-2.07	-2.12	2	2	0	2100	2100	0
12/23/2024 18:47	67703	WERN_T2	0	0	0	0	0	0	-1.56	-1.57	0	0	0	0	0	0
12/23/2024 18:47	66901	SHIL_T2	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
12/23/2024 18:48	44301	BEAV_T2	3	13	10	1.03	0.86	-0.17	0	0	0	0	0	0	0	0
12/23/2024 18:48	44302	BEAV_T2	40	21	-19	0.24	0.18	-0.06	0.28	0.25	0	0	0	0	0	0
12/23/2024 18:48	62605	ENGL_T1	0	0	0	0	0	0	-1.14	-1.13	0	0	0	0	0	0
12/23/2024 18:49	67002	STHI_T2	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
12/23/2024 18:49	42902	MIDD_T2	35	31	-4	0.77	0.74	-0.03	-0.37	-0.4	0	0	0	0	0	0
12/23/2024 18:49	42901	MIDD_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/23/2024 18:49	65901	SAKR_T2	1	1	0	9.6	9.4	-0.2	0	0	0	0	0	0	0	0
12/23/2024 18:49	44301	BEAV_T2	3	13	10	1.03	0.86	-0.17	0	0	0	0	0	0	0	0
12/23/2024 18:49	44302	BEAV_T2	40	21	-19	0.24	0.18	-0.06	0	0	0	0	0	0	0	0
12/23/2024 18:49	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:49	65903	SAKR_T2	0	0	0	0	0	0	-1.98	-1.94	6	6	0	4200	4200	0
12/23/2024 18:49	52503	PROG_T2	0	0	0	0	0	0	0.57	0.6	0	0	0	0	0	0
12/23/2024 18:49	42903	MIDD_T2	2	2	0	1.05	0.95	-0.1	0	0	0	0	0	0	0	0
12/23/2024 18:49	67001	STHI_T2	1	2	1	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
12/23/2024 18:49	48301	ORWI_T1	2	2	0	4.5	4.6	0.1	0.36	0.3	0	0	0	0	0	0
12/23/2024 18:50	67002	STHI_T2	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
12/23/2024 18:50	66505	SMAN_T2	3	3	0	0.77	0.57	-0.2	0	0	0	0	0	0	0	0
12/23/2024 18:50	66504	SMAN_T2	0	0	0	0	0	0	-2.75	-0.28	2	0	-2	2400	0	-2400
12/23/2024 18:50	67001	STHI_T2	1	2	1	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
12/23/2024 18:51	54201	PENN_T1	220	247	27	0.52	0.53	0.01	-1.36	-1.39	0	0	0	0	0	0
12/23/2024 18:51	53502	EVIL_T2	1	12	11	0.1	0	-0.1	0.05	0.07	1	1	0	600	600	0
12/23/2024 18:51	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:51	55002	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.14	-0.14	0	0	0	0	0	0
12/23/2024 18:51	65206	PRIN_T4	0	2	2	0	1.85	1.85	0	0	0	0	0	0	0	0
12/23/2024 18:51	54205	PENN_T1	81	83	2	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
12/23/2024 18:51	45802	HEGI_T2	33	48	15	0.63	1.51	0.88	0	0	0	0	0	0	0	0
12/23/2024 18:51	45502	DERR_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
12/23/2024 18:51	65207	PRIN_T4	2	3	1	1.45	2.3	0.85	0	0	0	0	0	0	0	0
12/23/2024 18:51	67702	WERN_T2	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
12/23/2024 18:51	54203	PENN_T1	274	275	1	0.31	0.34	0.03	0	0	0	0	0	0	0	0
12/23/2024 18:51	52503	PROG_T2	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
12/23/2024 18:51	61101	BERK_T5	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
12/23/2024 18:51	45501	DERR_T2	14	6	-8	0.49	0.45	-0.04	0.32	0.34	2	2	0	1800	1800	0
12/23/2024 18:51	55001	NEWP_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/23/2024 18:52	64502	LAVI_T1	302	308	6	0.55	0.66	0.11	0	0	0	0	0	0	0	0
12/23/2024 18:52	54203	PENN_T1	274	275	1	0.31	0.34	0.03	0.73	0.74	0	0	0	0	0	0
12/23/2024 18:52	54201	PENN_T1	220	247	27	0.52	0.53	0.01	0	0	0	0	0	0	0	0
12/23/2024 18:52	64503	LAVI_T1	38	43	5	0.73	0.72	-0.01	0	0	0	0	0	0	0	0
12/23/2024 18:52	13702	SCHN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:52	67703	WERN_T2	0	0	0	0	0	0	-1.57	-1.57	0	0	0	0	0	0
12/23/2024 18:52	63501	HEID_TBK1-2	5	26	21	0.12	0.3	0.18	-0.36	-0.32	1	1	0	900	900	0
12/23/2024 18:52	64501	LAVI_T1	93	88	-5	0.3	0.3	0	-0.35	-0.38	0	0	0	0	0	0
12/23/2024 18:52	54205	PENN_T1	81	83	2	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
12/23/2024 18:52	67702	WERN_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
12/23/2024 18:53	53903	HALI_T2	8	8	0	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
12/23/2024 18:53	62607	ENGL_T1	0	0	0	0	0	0	-0.56	-0.9	0	1	1	0	300	300
12/23/2024 18:53	20601	GRWO_T2	3	4	1	1.4	0.87	-0.53	0	0	0	0	0	0	0	0
12/23/2024 18:53	20603	GRWO_T2	98	96	-2	0.41	0.55	0.14	-0.36	-0.35	1	1	0	900	900	0
12/23/2024 18:53	63501	HEID_TBK1-2	5	26	21	0.12	0.3	0.18	-0.36	-0.32	1	1	0	900	900	0
12/23/2024 18:53	57203	ROSS_T1	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
12/23/2024 18:53	53901	HALI_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
12/23/2024 18:53	60701	BREC_T1	0	0	0	0	0	0	-0.32	-0.3	1	1	0	600	600	0
12/23/2024 18:53	20602	GRWO_T2	3	3	0	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
12/23/2024 18:53	53902	HALI_T2	1	1	0	5.7	6.2	0.5	-0.85	-0.85	0	0	0	0	0	0
12/23/2024 18:53	41801	GOCI_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/23/2024 18:54	14502	SCHO_T1	1	1	0	6.8	5.7	-1.1	0.41	0.41	0	0	0	0	0	0
12/23/2024 18:54	53902	HALI_T2	1	1	0	5.7	6.2	0.5	-0.85	-0.85	0	0	0	0	0	0
12/23/2024 18:54	62607	ENGL_T1	0	0	0	0	0	0	-0.56	-0.9	0	1	1	0	300	300
12/23/2024 18:54	44301	BEAV_T2	3	13	10	1.03	0.86	-0.17	0	0	0	0	0	0	0	0
12/23/2024 18:54	43304	WATS_T2	29	28	-1	0.92	0.5	-0.42	0	0	0	0	0	0	0	0
12/23/2024 18:54	54203	PENN_T1	274	275	1	0.31	0.34	0.03	0	0	0	0	0	0	0	0
12/23/2024 18:54	67702	WERN_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
12/23/2024 18:54	67703	WERN_T2	0	0	0	0	0	0	-1.57	-1.57	0	0	0	0	0	0
12/23/2024 18:54	52004	LING_T2	2	2	0	5.45	5.6	0.15	0.16	0.17	0	0	0	0	0	0
12/23/2024 18:54	54201	PENN_T1	220	247	27	0.52	0.53	0.01	-1.36	-1.39	0	0	0	0	0	0
12/23/2024 18:54	53903	HALI_T2	8	8	0	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
12/23/2024 18:54	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:54	53901	HALI_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
12/23/2024 18:54	54205	PENN_T1	81	83	2	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
12/23/2024 18:54	44302	BEAV_T2	40	21	-19	0.24	0.18	-0.06	0.25	0.29	0	0	0	0	0	0
12/23/2024 18:54	67001	STHI_T2	1	2	1	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
12/23/2024 18:54	67002	STHI_T2	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
12/23/2024 18:55	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:55	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:55	60903	DONG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:55	47104	MARL_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/23/2024 18:55	57201	ROSS_T1	0	0	0	0	0	0	-1.19	-1.2	0	0	0	0	0	0
12/23/2024 18:55	52004	LING_T2	2	2	0	5.45	5.6	0.15	0.16	0.17	0	0	0	0	0	0
12/23/2024 18:55	67703	WERN_T2	0	0	0	0	0	0	-1.57	-1.57	0	0	0	0	0	0
12/23/2024 18:55	47101	MARL_T1	177	181	4	1.3	1.42	0.12	-0.9	-0.89	1	1	0	600	600	0
12/23/2024 18:55	53502	EVIL_T2	1	12	11	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/23/2024 18:55	44905	SCOT_T1	10	31	21	0.4	0.41	0.01	0	0	0	0	0	0	0	0
12/23/2024 18:55	57704	PAXT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:55	53501	EVIL_T2	0	0	0	0	0	0	-2.77	-2.81	4	4	0	2400	2400	0
12/23/2024 18:55	60902	DONG_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
12/23/2024 18:55	58706	ROSE_T2	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
12/23/2024 18:55	43304	WATS_T2	29	28	-1	0.92	0.5	-0.42	0	0	0	0	0	0	0	0
12/23/2024 18:55	58705	ROSE_T2	5	5	0	1.96	2.06	0.1	0	0	0	0	0	0	0	0
12/23/2024 18:55	64101	REFR_T1	0	1	1	0	0	0	0.12	0.12	0	0	0	0	0	0
12/23/2024 18:55	58701	ROSE_T2	0	0	0	0	0	0	-0.16	-0.16	1	1	0	600	600	0
12/23/2024 18:55	64305	LINC_T1	0	0	0	0	0	0	-0.47	-0.56	0	0	0	0	0	0
12/23/2024 18:55	45802	HEGI_T2	33	48	15	0.63	1.51	0.88	0	0	0	0	0	0	0	0
12/23/2024 18:56	24105	EHAZ_T1	44	41	-3	1.5	1.14	-0.36	0	0	0	0	0	0	0	0
12/23/2024 18:56	22802	HAUT_T2	3	2	-1	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
12/23/2024 18:56	22805	HAUT_T2	87	94	7	1.18	1.31	0.13	0	0	0	0	0	0	0	0
12/23/2024 18:56	66505	SMAN_T2	3	3	0	0.77	0.57	-0.2	0	0	0	0	0	0	0	0
12/23/2024 18:56	63501	HEID_TBK1-2	5	26	21	0.12	0.3	0.18	-0.36	-0.32	1	1	0	900	900	0
12/23/2024 18:56	53903	HALI_T2	8	8	0	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
12/23/2024 18:56	53901	HALI_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
12/23/2024 18:56	22801	HAUT_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/23/2024 18:56	55002	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.14	-0.14	0	0	0	0	0	0
12/23/2024 18:56	57201	ROSS_T1	0	0	0	0	0	0	-1.19	-1.2	0	0	0	0	0	0
12/23/2024 18:56	60701	BREC_T1	0	0	0	0	0	0	-0.32	-0.3	1	1	0	600	600	0
12/23/2024 18:56	55101	WERT_T1	0	0	0	0	0	0	-3.47	-3.47	4	4	0	3000	3000	0
12/23/2024 18:56	24103	EHAZ_T1	0	3	3	0	3.2	3.2	-0.45	-0.46	0	0	0	0	0	0
12/23/2024 18:56	40702	FFLD_T1	147	77	-70	0.45	0.27	-0.18	0	0	0	0	0	0	0	0
12/23/2024 18:56	55001	NEWP_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/23/2024 18:56	22803	HAUT_T2	52	62	10	1.01	1.18	0.17	0	0	0	0	0	0	0	0
12/23/2024 18:56	20603	GRWO_T2	98	96	-2	0.41	0.55	0.14	0	0	0	0	0	0	0	0
12/23/2024 18:56	20602	GRWO_T2	3	3	0	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
12/23/2024 18:56	66502	SMAN_T2	0	0	0	0	0	0	0.07	-0.03	0	0	0	0	0	0
12/23/2024 18:56	62605	ENGL_T1	0	0	0	0	0	0	-1.13	-1.12	0	0	0	0	0	0
12/23/2024 18:56	24101	EHAZ_T1	67	83	16	2.21	2.12	-0.09	0	0	0	0	0	0	0	0
12/23/2024 18:56	20601	GRWO_T2	3	4	1	1.4	0.87	-0.53	0.06	0.04	0	0	0	0	0	0
12/23/2024 18:56	53902	HALI_T2	1	1	0	5.7	6.2	0.5	-0.85	-0.85	0	0	0	0	0	0
12/23/2024 18:56	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:56	40703	FFLD_T1	4	4	0	0.83	0.58	-0.25	0	0	0	0	0	0	0	0
12/23/2024 18:56	24102	EHAZ_T1	38	35	-3	1.11	1.26	0.15	0	0	0	0	0	0	0	0
12/23/2024 18:56	40701	FFLD_T1	46	31	-15	0.63	0.62	-0.01	0	0	0	0	0	0	0	0
12/23/2024 18:57	65202	PRIN_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
12/23/2024 18:57	58402	MORO_T1	1	1	0	1	0	-1	-1.36	-1.38	4	4	0	2700	2700	0
12/23/2024 18:57	64204	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/23/2024 18:57	64202	KINZ_T1	1	1	0	1.7	0	-1.7	0	0	0	0	0	0	0	0
12/23/2024 18:57	51905	COPA_T1	0	1	1	0	0	0	-0.59	-0.59	0	0	0	0	0	0
12/23/2024 18:57	46203	DANV_T2	14	12	-2	0.72	0.78	0.06	-1.16	-1.15	0	0	0	0	0	0
12/23/2024 18:57	50202	HARR_T3	0	10	10	0	0.2	0.2	-0.33	-0.16	0	0	0	0	0	0
12/23/2024 18:57	50103	HARR_T3	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
12/23/2024 18:57	58401	MORO_T1	1	1	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
12/23/2024 18:57	50106	HARR_T3	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/23/2024 18:57	45501	DERR_T2	14	6	-8	0.49	0.45	-0.04	0.34	0.19	2	2	0	1800	1800	0
12/23/2024 18:57	46204	DANV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/23/2024 18:57	58202	NEWV_T1	0	0	0	0	0	0	0.1	0.01	0	0	0	0	0	0
12/23/2024 18:57	67703	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:57	65205	PRIN_T1	2	1	-1	4.4	1.5	-2.9	0	0	0	0	0	0	0	0
12/23/2024 18:57	66505	SMAN_T2	3	3	0	0.77	0.57	-0.2	0	0	0	0	0	0	0	0
12/23/2024 18:57	64203	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:57	46501	LOHA_T1	7	5	-2	0.96	0.87	-0.09	0	0	0	0	0	0	0	0
12/23/2024 18:57	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:57	45802	HEGI_T2	33	48	15	0.63	1.51	0.88	-0.06	-0.14	1	1	0	900	900	0
12/23/2024 18:57	50105	HARR_T3	19	19	0	2.74	2.84	0.1	0	0	0	0	0	0	0	0
12/23/2024 18:57	46206	DANV_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/23/2024 18:57	45502	DERR_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
12/23/2024 18:57	50201	HARR_T3	2	2	0	2.8	3.35	0.55	0	0	0	0	0	0	0	0
12/23/2024 18:57	51904	COPA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/23/2024 18:57	46506	LOHA_T1	1	3	2	0.2	0.87	0.67	0.02	0.01	0	0	0	0	0	0
12/23/2024 18:57	64801	MONE_T2	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
12/23/2024 18:57	63501	HEID_TBK1-2	5	26	21	0.12	0.3	0.18	-0.36	-0.32	1	1	0	900	900	0
12/23/2024 18:58	53902	HALI_T2	1	1	0	5.7	6.2	0.5	-0.85	-0.85	0	0	0	0	0	0
12/23/2024 18:58	64101	REFR_T1	0	1	1	0	0	0	0.24	0.24	0	0	0	0	0	0
12/23/2024 18:58	67703	WERN_T2	0	0	0	0	0	0	-1.57	-1.57	0	0	0	0	0	0
12/23/2024 18:58	62605	ENGL_T1	0	0	0	0	0	0	-1.13	-1.12	0	0	0	0	0	0
12/23/2024 18:58	66504	SMAN_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
12/23/2024 18:58	57201	ROSS_T1	0	0	0	0	0	0	-1.19	-1.2	0	0	0	0	0	0
12/23/2024 18:58	55002	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.14	-0.14	0	0	0	0	0	0
12/23/2024 18:58	52102	MEIS_T1	2	1	-1	0.45	0.1	-0.35	0	0	1	1	0	450	450	0
12/23/2024 18:58	54701	NEBL_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
12/23/2024 18:58	53502	EVIL_T2	1	12	11	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/23/2024 18:58	67001	STHI_T2	1	2	1	0.8	0.55	-0.25	0.18	0.18	0	0	0	0	0	0
12/23/2024 18:58	66505	SMAN_T2	3	3	0	0.77	0.57	-0.2	0	0	0	0	0	0	0	0
12/23/2024 18:58	67002	STHI_T2	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
12/23/2024 18:58	53501	EVIL_T2	0	0	0	0	0	0	-1.39	-1.4	2	2	0	1200	1200	0
12/23/2024 18:58	53903	HALI_T2	8	8	0	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
12/23/2024 18:58	52101	MEIS_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/23/2024 18:58	55001	NEWP_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/23/2024 18:58	53901	HALI_T2	0	2	2	0	0.5	0.5	-1.22	-1.26	0	0	0	0	0	0
12/23/2024 18:59	51905	COPA_T1	0	1	1	0	0	0	-0.59	-0.59	0	0	0	0	0	0
12/23/2024 18:59	44905	SCOT_T2	43	46	3	0.18	0.19	0.01	-0.08	-0.13	0	0	0	0	0	0
12/23/2024 18:59	66505	SMAN_T2	3	3	0	0.77	0.57	-0.2	0	0	0	0	0	0	0	0
12/23/2024 18:59	57201	ROSS_T1	0	0	0	0	0	0	-1.19	-1.2	0	0	0	0	0	0
12/23/2024 18:59	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:59	51904	COPA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/23/2024 18:59	44902	SCOT_T2	562	542	-20	0.57	0.52	-0.05	-0.84	-0.8	0	0	0	0	0	0
12/23/2024 18:59	55001	NEWP_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/23/2024 18:59	53502	EVIL_T2	1	12	11	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/23/2024 18:59	53501	EVIL_T2	0	0	0	0	0	0	-1.39	-1.4	2	2	0	1200	1200	0
12/23/2024 18:59	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:59	44302	BEAV_T2	40	21	-19	0.24	0.18	-0.06	0.25	0.29	0	0	0	0	0	0
12/23/2024 18:59	67402	WAKE_T2	0	0	0	0	0	0	0.32	0.36	0	0	0	0	0	0
12/23/2024 18:59	44301	BEAV_T2	3	13	10	1.03	0.86	-0.17	0	0	0	0	0	0	0	0
12/23/2024 18:59	52006	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 18:59	60701	BREC_T1	0	0	0	0	0	0	-0.32	-0.3	1	1	0	600	600	0
12/23/2024 18:59	52004	LING_T2	2	2	0	5.45	5.6	0.15	0.16	0.17	0	0	0	0	0	0
12/23/2024 18:59	66502	SMAN_T2	0	0	0	0	0	0	0.07	-0.03	0	0	0	0	0	0
12/23/2024 18:59	45802	HEGI_T2	33	48	15	0.63	1.51	0.88	-0.06	-0.14	1	1	0	900	900	0
12/23/2024 18:59	55002	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.14	-0.14	0	0	0	0	0	0
12/23/2024 19:00	66201	SISP_T2	1	3	2	2.5	4	1.5	0	0	0	0	0	0	0	0
12/23/2024 19:00	63501	HEID_TBK1-2	11	28	17	0.17	0.29	0.12	-0.36	-0.32	1	1	0	900	900	0
12/23/2024 19:00	62605	ENGL_T1	0	0	0	0	0	0	-1.13	-1.12	0	0	0	0	0	0
12/23/2024 19:00	53502	EVIL_T2	12	0	-12	1.76	0	-1.76	0	0	0	0	0	0	0	0
12/23/2024 19:00	66203	SISP_T2	1	1	0	3.4	0	-3.4	-1.22	-1.28	2	2	0	1800	1800	0
12/23/2024 19:00	60701	BREC_T1	0	0	0	0	0	0	-0.64	-0.6	2	2	0	1200	1200	0
12/23/2024 19:00	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/23/2024 19:00	61304	EARL_T1	0	0	0	0	0	0	-0.69	-0.73	1	1	0	600	600	0
12/23/2024 19:00	52402	GRPA_T2	26	12	-14	0.53	0.51	-0.02	-0.63	-0.67	0	0	0	0	0	0
12/23/2024 19:00	54205	PENN_T1	83	76	-7	0.2	0.2	0	0	0	0	0	0	0	0	0
12/23/2024 19:00	53501	EVIL_T2	0	1	1	0	0.1	0.1	-1.39	-1.4	2	2	0	1200	1200	0
12/23/2024 19:00	64101	REFR_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
12/23/2024 19:00	60801	BUCK_T1	0	0	0	0	0	0	-0.79	-0.83	1	1	0	600	600	0
12/23/2024 19:00	52403	GRPA_T2	1	1	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
12/23/2024 19:00	52502	PROG_T2	0	0	0	0	0	0	-0.48	-0.52	2	2	0	1800	1800	0
12/23/2024 19:00	64801	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 19:00	54203	PENN_T1	262	258	-4	0.34	0.32	-0.02	1.47	1.47	0	0	0	0	0	0
12/23/2024 19:00	55101	WERT_T1	0	0	0	0	0	0	-1.73	-1.74	2	2	0	1500	1500	0
12/23/2024 19:00	66503	SMAN_T2	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
12/23/2024 19:00	61303	EARL_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
12/23/2024 19:00	54201	PENN_T1	230	233	3	0.53	0.51	-0.02	0	0	0	0	0	0	0	0
12/23/2024 19:00	66505	SMAN_T2	3	3	0	0.57	0.4	-0.17	0	0	0	0	0	0	0	0
12/23/2024 19:01	66505	SMAN_T2	3	3	0	0.57	0.4	-0.17	0	0	0	0	0	0	0	0
12/23/2024 19:01	51904	COPA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/23/2024 19:01	55101	WERT_T1	0	0	0	0	0	0	-5.2	-5.21	6	6	0	4500	4500	0
12/23/2024 19:01	57205	ROSS_T1	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
12/23/2024 19:01	66203	SISP_T2	1	1	0	3.4	0	-3.4	0	0	0	0	0	0	0	0
12/23/2024 19:01	66201	SISP_T2	1	3	2	2.5	4	1.5	0	0	0	0	0	0	0	0
12/23/2024 19:01	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 19:01	51905	COPA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 19:01	64101	REFR_T1	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
12/23/2024 19:02	54505	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/23/2024 19:02	53502	EVIL_T2	12	0	-12	1.76	0	-1.76	0	0	0	0	0	0	0	0
12/23/2024 19:02	53501	EVIL_T2	0	1	1	0	0.1	0.1	-1.39	-1.4	2	2	0	1200	1200	0
12/23/2024 19:02	54504	ENOL_T2	0	0	0	0	0	0	-0.93	-0.94	1	1	0	600	600	0
12/23/2024 19:02	58402	MORO_T1	1	0	-1	0.7	0	-0.7	-1.36	-1.38	4	4	0	2700	2700	0
12/23/2024 19:02	52502	PROG_T2	0	0	0	0	0	0	-0.24	-0.26	1	1	0	900	900	0
12/23/2024 19:02	59101	WALK_T2	0	4	4	0	0.3	0.3	1.13	1.13	6	6	0	3600	3600	0
12/23/2024 19:02	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 19:02	57201	ROSS_T1	0	0	0	0	0	0	-1.19	-1.2	0	0	0	0	0	0
12/23/2024 19:02	65903	SAKR_T2	0	0	0	0	0	0	-0.97	-0.97	3	3	0	2100	2100	0
12/23/2024 19:02	44302	BEAV_T2	17	38	21	0.18	0.25	0.07	0	0	0	0	0	0	0	0
12/23/2024 19:02	67703	WERN_T2	0	0	0	0	0	0	-1.57	-1.57	0	0	0	0	0	0
12/23/2024 19:02	44301	BEAV_T2	5	13	8	0.86	0.81	-0.05	0	0	0	0	0	0	0	0
12/23/2024 19:02	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 19:02	55002	NEWP_T1	0	2	2	0	0.5	0.5	-0.14	-0.14	0	0	0	0	0	0
12/23/2024 19:02	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/23/2024 19:02	63804	HEMP_T1	1	9	8	6.6	1.04	-5.56	0.64	0.63	0	0	0	0	0	0
12/23/2024 19:02	55001	NEWP_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/23/2024 19:02	65901	SAKR_T2	1	1	0	8.9	9.4	0.5	0	0	0	0	0	0	0	0
12/23/2024 19:02	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/23/2024 19:02	58401	MORO_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
12/23/2024 19:03	53502	EVIL_T2	12	0	-12	1.76	0	-1.76	0	0	0	0	0	0	0	0
12/23/2024 19:03	58401	MORO_T1	1	1	0	0.6	0.2	-0.4	-3.49	-3.71	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/23/2024 19:03	64101	REFR_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
12/23/2024 19:03	64802	MONE_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
12/23/2024 19:03	53501	EVIL_T2	0	1	1	0	0.1	0.1	-1.39	-1.4	2	2	0	1200	1200	0
12/23/2024 19:03	62605	ENGL_T1	0	0	0	0	0	0	-1.13	-1.12	0	0	0	0	0	0
12/23/2024 19:03	58402	MORO_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
12/23/2024 19:03	52502	PROG_T2	0	0	0	0	0	0	-0.24	-0.26	1	1	0	900	900	0
12/23/2024 19:04	55101	WERT_T1	0	0	0	0	0	0	-1.73	-1.74	2	2	0	1500	1500	0
12/23/2024 19:04	58401	MORO_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
12/23/2024 19:04	63804	HEMP_T1	1	9	8	6.6	1.04	-5.56	0.64	0.63	0	0	0	0	0	0
12/23/2024 19:04	52402	GRPA_T2	26	12	-14	0.53	0.51	-0.02	-0.63	-0.67	0	0	0	0	0	0
12/23/2024 19:04	52403	GRPA_T2	1	1	0	1.6	0	-1.6	0.05	0	0	0	0	0	0	0
12/23/2024 19:04	58402	MORO_T1	1	0	-1	0.7	0	-0.7	-1.36	-1.38	4	4	0	2700	2700	0
12/23/2024 19:05	44301	BEAV_T2	5	13	8	0.86	0.81	-0.05	0	0	0	0	0	0	0	0
12/23/2024 19:05	55101	WERT_T1	0	0	0	0	0	0	-1.73	-1.74	2	2	0	1500	1500	0
12/23/2024 19:05	58401	MORO_T1	1	1	0	0.6	0.2	-0.4	-1.74	-1.85	1	1	0	600	600	0
12/23/2024 19:05	52403	GRPA_T2	1	1	0	1.6	0	-1.6	0.05	0	0	0	0	0	0	0
12/23/2024 19:05	52402	GRPA_T2	26	12	-14	0.53	0.51	-0.02	0	0	0	0	0	0	0	0
12/23/2024 19:05	44302	BEAV_T2	17	38	21	0.18	0.25	0.07	0.25	0.29	0	0	0	0	0	0
12/23/2024 19:05	58402	MORO_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
12/23/2024 19:05	64904	MILL_T1	0	0	0	0	0	0	-0.11	-0.14	0	0	0	0	0	0
12/23/2024 19:05	64101	REFR_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
12/23/2024 19:05	58202	NEWV_T1	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
12/23/2024 19:06	64101	REFR_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
12/23/2024 19:07	55105	WERT_T1	0	0	0	0	0	0	-0.27	-0.3	1	1	0	900	900	0
12/23/2024 19:07	59101	WALK_T2	0	4	4	0	0.3	0.3	0.38	0.34	2	2	0	1200	1200	0
12/23/2024 19:11	55101	WERT_T1	0	0	0	0	0	0	-1.74	-1.81	2	2	0	1500	1500	0
12/23/2024 19:26	52402	GRPA_T2	9	10	1	0.5	0.17	-0.33	0	0	0	0	0	0	0	0
12/23/2024 19:26	52403	GRPA_T2	1	0	-1	0.2	0	-0.2	-0.02	-0.05	0	0	0	0	0	0
12/23/2024 19:51	46802	HEPB_T1	1	1	0	0.9	1.2	0.3	-1.18	-1.14	0	0	0	0	0	0
12/23/2024 22:02	60701	BREC_T1	41	0	-41	0.14	0	-0.14	-0.38	-0.38	1	1	0	600	600	0
12/24/2024 1:02	44505	HAMI_T2	4	3	-1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
12/24/2024 1:02	44502	HAMI_T2	1	1	0	3.2	3	-0.2	0	0	0	0	0	0	0	0
12/24/2024 1:19	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 1:29	28403	HART_T2	0	0	0	0	0	0	-0.79	-0.81	1	1	0	900	900	0
12/24/2024 9:00	44902	SCOT_T2	381	432	51	0.35	0.41	0.06	0	0	0	0	0	0	0	0
12/24/2024 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
12/24/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.5	0.45	0	0	0	0	0	0
12/24/2024 9:00	57203	ROSS_T1	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
12/24/2024 9:00	44901	SCOT_T2	68	127	59	0.24	0.3	0.06	-0.38	-0.36	0	0	0	0	0	0
12/24/2024 9:18	66502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 9:28	57602	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 9:30	57602	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 9:33	58202	NEWV_T1	0	0	0	0	0	0	-0.12	-0.17	0	0	0	0	0	0
12/24/2024 9:37	57205	ROSS_T1	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
12/24/2024 9:38	57201	ROSS_T1	0	0	0	0	0	0	-1.18	-1.18	0	0	0	0	0	0
12/24/2024 9:39	57201	ROSS_T1	0	0	0	0	0	0	-1.18	-1.18	0	0	0	0	0	0
12/24/2024 9:45	52403	GRPA_T2	2	4	2	0.55	0.75	0.2	0	0	0	0	0	0	0	0
12/24/2024 9:45	52402	GRPA_T2	6	5	-1	0.4	0.1	-0.3	-0.82	-0.77	0	0	0	0	0	0
12/24/2024 9:45	52401	GRPA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
12/24/2024 9:47	52402	GRPA_T2	6	5	-1	0.4	0.1	-0.3	-0.82	-0.77	0	0	0	0	0	0
12/24/2024 9:47	52403	GRPA_T2	2	4	2	0.55	0.75	0.2	0	0	0	0	0	0	0	0
12/24/2024 9:47	52401	GRPA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
12/24/2024 10:04	64401	LAND_T1	0	0	0	0	0	0	-1.01	-0.98	1	1	0	600	600	0
12/24/2024 10:07	55002	NEWP_T1	2	0	-2	0.25	0	-0.25	-0.14	-0.12	0	0	0	0	0	0
12/24/2024 10:16	62606	ENGL_T1	0	37	37	0	0.1	0.1	0	0	0	0	0	0	0	0
12/24/2024 10:16	62605	ENGL_T1	0	2	2	0	0.15	0.15	-1.16	-1.16	0	0	0	0	0	0
12/24/2024 10:16	62604	ENGL_T1	1	4	3	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/24/2024 10:18	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.14	-0.12	0	0	0	0	0	0
12/24/2024 10:42	53502	EVIL_T2	4	12	8	0.65	0.43	-0.22	0	0	0	0	0	0	0	0
12/24/2024 10:42	53501	EVIL_T2	1	1	0	0.5	1.3	0.8	-0.55	-0.58	0	0	0	0	0	0
12/24/2024 10:47	64403	LAND_T1	0	0	0	0	0	0	-1.96	-2	1	1	0	900	900	0
12/24/2024 11:00	40101	HUNT_T2	520	507	-13	1.61	1.04	-0.57	0	0	0	0	0	0	0	0
12/24/2024 11:10	21501	CEAV_T2	0	0	0	0	0	0	1.15	1.15	0	0	0	0	0	0
12/24/2024 11:16	45801	HEGI_T1	0	0	0	0	0	0	-0.27	-0.3	1	1	0	900	900	0
12/24/2024 11:25	67001	STHI_T2	5	151	146	0.26	0.12	-0.14	0	0	0	0	0	0	0	0
12/24/2024 11:25	67002	STHI_T2	1	19	18	0.1	0.14	0.04	0.77	0.73	0	0	0	0	0	0
12/24/2024 11:30	53903	HALI_T2	2	8	6	0.9	0.4	-0.5	-0.09	-0.1	0	0	0	0	0	0
12/24/2024 11:30	53901	HALI_T2	1	3	2	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
12/24/2024 11:30	53902	HALI_T2	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
12/24/2024 11:30	63501	HEID_TBK1-2	8	36	28	0.11	0.33	0.22	-0.35	-0.3	1	1	0	900	900	0
12/24/2024 11:34	58402	MORO_T1	0	0	0	0	0	0	-1.52	-0.64	3	2	-1	2400	1500	-900
12/24/2024 11:36	57201	ROSS_T1	0	0	0	0	0	0	-1.17	-1.19	0	0	0	0	0	0
12/24/2024 11:37	55002	NEWP_T1	5	3	-2	0.34	0.43	0.09	0	0	0	0	0	0	0	0
12/24/2024 11:37	55001	NEWP_T1	0	1	1	0	0.8	0.8	-0.76	-0.77	1	1	0	600	600	0
12/24/2024 11:43	61304	EARL_T1	0	0	0	0	0	0	-0.68	-0.7	1	1	0	600	600	0
12/24/2024 11:45	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 11:48	13503	MCMI_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
12/24/2024 11:58	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 11:58	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
12/24/2024 11:58	54501	ENOL_T2	0	0	0	0	0	0	-0.47	-0.47	1	1	0	600	600	0
12/24/2024 11:59	60902	DONG_T2	0	0	0	0	0	0	0.67	0.63	0	0	0	0	0	0
12/24/2024 12:03	40101	HUNT_T2	417	386	-31	0.99	0.91	-0.08	-1.6	-1.73	0	0	0	0	0	0
12/24/2024 12:04	51204	MTON_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
12/24/2024 12:05	57201	ROSS_T1	0	4	4	0	0.1	0.1	-1.19	-1.15	0	0	0	0	0	0
12/24/2024 12:06	54201	PENN_T1	7	10	3	0.54	0.76	0.22	0	0	0	0	0	0	0	0
12/24/2024 12:06	54203	PENN_T1	18	18	0	0.91	1.27	0.36	0.02	0.03	0	0	0	0	0	0
12/24/2024 12:07	48302	ORWI_T2	2	3	1	1.35	0.97	-0.38	0.12	0.13	0	0	0	0	0	0
12/24/2024 12:07	64101	REFR_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
12/24/2024 12:08	64101	REFR_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
12/24/2024 12:08	54201	PENN_T1	7	10	3	0.54	0.76	0.22	0	0	0	0	0	0	0	0
12/24/2024 12:08	54203	PENN_T1	18	18	0	0.91	1.27	0.36	0.02	0.03	0	0	0	0	0	0
12/24/2024 12:09	64101	REFR_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
12/24/2024 12:12	61001	DONV_T1	1	2	1	0.2	0.85	0.65	0	0	0	0	0	0	0	0
12/24/2024 12:13	44301	BEAV_T2	1	1	0	1.5	1.4	-0.1	-1.26	-1.33	1	1	0	600	600	0
12/24/2024 12:14	61001	DONV_T1	1	2	1	0.2	0.85	0.65	0	0	0	0	0	0	0	0
12/24/2024 12:14	63306	GREE_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
12/24/2024 12:14	63302	GREE_T1	0	1	1	0	0.1	0.1	0.34	0.32	0	0	0	0	0	0
12/24/2024 12:14	63305	GREE_T1	7	16	9	0.44	0.39	-0.05	0	0	0	0	0	0	0	0
12/24/2024 12:15	44301	BEAV_T2	1	1	0	1.5	1.4	-0.1	-1.26	-1.33	1	1	0	600	600	0
12/24/2024 12:15	45802	HEGI_T2	46	47	1	1.4	0.65	-0.75	0.13	0.97	0	0	0	0	0	0
12/24/2024 12:16	63501	HEID_TBK1-2	36	50	14	0.45	0.41	-0.04	-0.63	-0.64	2	2	0	1800	1800	0
12/24/2024 12:16	54506	ENOL_T2	0	0	0	0	0	0	0.4	0.4	1	1	0	600	600	0
12/24/2024 12:16	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
12/24/2024 12:17	64703	LITI_T2	15	16	1	0.13	0.16	0.03	0	0	0	0	0	0	0	0
12/24/2024 12:17	64702	LITI_T2	4	8	4	0.1	0.13	0.03	-0.92	-0.92	0	0	0	0	0	0
12/24/2024 12:17	45802	HEGI_T2	46	47	1	1.4	0.65	-0.75	0.13	0.97	0	0	0	0	0	0
12/24/2024 12:18	64703	LITI_T2	15	16	1	0.13	0.16	0.03	0	0	0	0	0	0	0	0
12/24/2024 12:18	64802	MONE_T2	29	58	29	0.15	0.19	0.04	0.15	0.03	0	0	0	0	0	0
12/24/2024 12:18	64801	MONE_T2	5	8	3	0.2	0.24	0.04	0	0	0	0	0	0	0	0
12/24/2024 12:18	64702	LITI_T2	4	8	4	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/24/2024 12:19	64802	MONE_T2	29	58	29	0.15	0.19	0.04	0	0	0	0	0	0	0	0
12/24/2024 12:19	64801	MONE_T2	5	8	3	0.2	0.24	0.04	0	0	0	0	0	0	0	0
12/24/2024 12:19	64703	LITI_T2	15	16	1	0.13	0.16	0.03	0	0	0	0	0	0	0	0
12/24/2024 12:19	64702	LITI_T2	4	8	4	0.1	0.13	0.03	-0.92	-0.92	0	0	0	0	0	0
12/24/2024 12:20	64101	REFR_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
12/24/2024 12:20	63501	HEID_TBK1-2	36	50	14	0.45	0.41	-0.04	-0.31	-0.32	1	1	0	900	900	0
12/24/2024 12:21	64101	REFR_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
12/24/2024 12:22	64802	MONE_T2	29	58	29	0.15	0.19	0.04	0	0	0	0	0	0	0	0
12/24/2024 12:22	64801	MONE_T2	5	8	3	0.2	0.24	0.04	0	0	0	0	0	0	0	0
12/24/2024 12:22	64101	REFR_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
12/24/2024 12:24	64101	REFR_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
12/24/2024 12:27	60903	DONG_T2	0	0	0	0	0	0	0.12	0.14	1	1	0	600	600	0
12/24/2024 12:27	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-0.95	1	1	0	600	600	0
12/24/2024 12:27	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
12/24/2024 12:29	60903	DONG_T2	0	0	0	0	0	0	0.12	0.14	1	1	0	600	600	0
12/24/2024 12:29	45801	HEGI_T1	0	0	0	0	0	0	-0.34	-0.32	1	1	0	900	900	0
12/24/2024 12:31	64201	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/24/2024 12:31	64203	KINZ_T1	0	0	0	0	0	0	-0.07	0.55	1	0	-1	600	0	-600
12/24/2024 12:31	64204	KINZ_T1	4	3	-1	0.53	0.47	-0.06	0	0	0	0	0	0	0	0
12/24/2024 12:31	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/24/2024 12:31	44505	HAMI_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/24/2024 12:31	44502	HAMI_T2	1	1	0	2.2	2.6	0.4	0	0	0	0	0	0	0	0
12/24/2024 12:32	64204	KINZ_T1	4	3	-1	0.53	0.47	-0.06	0	0	0	0	0	0	0	0
12/24/2024 12:32	64203	KINZ_T1	0	0	0	0	0	0	-0.07	0.55	1	0	-1	600	0	-600
12/24/2024 12:32	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/24/2024 12:32	64201	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/24/2024 12:33	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 12:33	64801	MONE_T2	6	7	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/24/2024 12:33	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/24/2024 12:33	13503	MCMI_T2	0	0	0	0	0	0	0.39	0.33	0	0	0	0	0	0
12/24/2024 12:33	64204	KINZ_T1	4	3	-1	0.53	0.47	-0.06	0	0	0	0	0	0	0	0
12/24/2024 12:33	64201	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/24/2024 12:33	64802	MONE_T2	39	62	23	0.17	0.19	0.02	0.03	0	0	0	0	0	0	0
12/24/2024 12:37	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
12/24/2024 12:38	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/24/2024 12:38	54601	SUMM_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
12/24/2024 12:39	66505	SMAN_T2	1	3	2	0.1	0.67	0.57	0	0	0	0	0	0	0	0
12/24/2024 12:39	66503	SMAN_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
12/24/2024 12:40	54601	SUMM_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
12/24/2024 12:40	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/24/2024 12:44	61701	ELIZ_T1	1	2	1	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
12/24/2024 12:44	11903	ETEX_T1	0	0	0	0	0	0	0.5	0.42	0	0	0	0	0	0
12/24/2024 12:44	61703	ELIZ_T1	2	0	-2	0.1	0	-0.1	-2.48	-2.44	2	2	0	2100	2100	0
12/24/2024 12:46	63306	GREE_T1	2	1	-1	0.55	0.6	0.05	0	0	0	0	0	0	0	0
12/24/2024 12:46	63305	GREE_T1	16	16	0	0.48	0.5	0.02	-1.56	-1.54	0	0	0	0	0	0
12/24/2024 12:46	63302	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/24/2024 12:47	63306	GREE_T1	2	1	-1	0.55	0.6	0.05	0	0	0	0	0	0	0	0
12/24/2024 12:47	63302	GREE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/24/2024 12:47	63305	GREE_T1	16	16	0	0.48	0.5	0.02	-1.56	-1.54	0	0	0	0	0	0
12/24/2024 12:51	52502	PROG_T2	0	0	0	0	0	0	1.75	1.71	3	0	-3	2700	0	-2700
12/24/2024 12:52	14801	TREI_T2	0	1	1	0	0	0	0.66	0.7	0	0	0	0	0	0
12/24/2024 12:52	66505	SMAN_T2	2	3	1	0.3	0.67	0.37	0	0	0	0	0	0	0	0
12/24/2024 12:52	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/24/2024 12:52	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/24/2024 12:53	66505	SMAN_T2	2	3	1	0.3	0.67	0.37	0	0	0	0	0	0	0	0
12/24/2024 12:53	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 12:53	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 12:53	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/24/2024 12:54	66505	SMAN_T2	2	3	1	0.3	0.67	0.37	0	0	0	0	0	0	0	0
12/24/2024 12:54	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/24/2024 12:54	66502	SMAN_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
12/24/2024 12:54	66503	SMAN_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
12/24/2024 12:54	14801	TREI_T2	0	1	1	0	0	0	0.66	0.7	0	0	0	0	0	0
12/24/2024 12:56	66505	SMAN_T2	2	3	1	0.3	0.67	0.37	0	0	0	0	0	0	0	0
12/24/2024 12:56	14801	TREI_T2	0	1	1	0	0	0	0.66	0.7	0	0	0	0	0	0
12/24/2024 12:56	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/24/2024 12:56	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 12:56	42701	AUGU_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/24/2024 13:02	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
12/24/2024 13:02	66505	SMAN_T2	3	3	0	0.67	0.5	-0.17	0	0	0	0	0	0	0	0
12/24/2024 13:02	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 13:03	63601	LETO_T1	3	4	1	0.57	0.48	-0.09	1.2	1.32	0	0	0	0	0	0
12/24/2024 13:09	52502	PROG_T2	0	0	0	0	0	0	0.57	0.64	0	0	0	0	0	0
12/24/2024 13:13	61701	ELIZ_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
12/24/2024 13:13	61703	ELIZ_T1	0	0	0	0	0	0	-2.5	-1.81	2	1	-1	2100	900	-1200
12/24/2024 13:14	10801	OHHI_T1	1	1	0	0.7	1.1	0.4	-1.41	-1.43	2	2	0	1500	1500	0
12/24/2024 13:15	63305	GREE_T1	16	16	0	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
12/24/2024 13:15	63306	GREE_T1	1	1	0	0.2	0.3	0.1	-1.49	-1.49	1	1	0	900	900	0
12/24/2024 13:16	64202	KINZ_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
12/24/2024 13:16	64204	KINZ_T1	3	2	-1	0.37	0.4	0.03	0	0	0	0	0	0	0	0
12/24/2024 13:16	64201	KINZ_T1	0	0	0	0	0	0	0.13	0.26	2	2	0	600	600	0
12/24/2024 13:16	61305	EARL_T1	0	0	0	0	0	0	0.53	0.57	0	0	0	0	0	0
12/24/2024 13:17	66502	SMAN_T2	0	2	2	0	0.3	0.3	0	0.01	0	0	0	0	0	0
12/24/2024 13:17	66501	SMAN_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
12/24/2024 13:17	66505	SMAN_T2	3	3	0	0.4	0.53	0.13	0	0	0	0	0	0	0	0
12/24/2024 13:18	64202	KINZ_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
12/24/2024 13:18	64204	KINZ_T1	3	2	-1	0.37	0.4	0.03	0	0	0	0	0	0	0	0
12/24/2024 13:18	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 13:19	64204	KINZ_T1	3	2	-1	0.37	0.4	0.03	0	0	0	0	0	0	0	0
12/24/2024 13:19	64202	KINZ_T1	0	2	2	0	0.5	0.5	0.39	0.36	0	0	0	0	0	0
12/24/2024 13:31	40802	EXCH_T2	6	15	9	0.15	0.16	0.01	0	0	0	0	0	0	0	0
12/24/2024 13:31	40801	EXCH_T2	4	7	3	0.4	0.34	-0.06	-0.43	-0.4	1	1	0	1200	1200	0
12/24/2024 13:32	63804	HEMP_T1	1	5	4	0.4	6.4	6.2	-0.2	0	0	0	0	0	0	0
12/24/2024 13:32	63801	HEMP_T1	0	0	0	0	0	0	-1.26	-0.29	1	0	-1	900	0	-900
12/24/2024 13:37	58202	NEWV_T1	2	2	0	0.15	0.2	0.05	-0.16	-0.09	0	0	0	0	0	0
12/24/2024 13:38	15102	UPHA_T1	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
12/24/2024 13:38	15101	UPHA_T1	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
12/24/2024 13:40	44301	BEAV_T2	1	1	0	2.3	1.6	-0.7	-1.39	-1.34	1	1	0	600	600	0
12/24/2024 13:40	67401	WAKE_T2	26	38	12	0.2	0.26	0.06	-1.06	-1.07	0	0	0	0	0	0
12/24/2024 13:45	63305	GREE_T1	12	16	4	0.52	0.48	-0.04	0	0	0	0	0	0	0	0
12/24/2024 13:45	63306	GREE_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/24/2024 13:45	63303	GREE_T1	0	0	0	0	0	0	0.1	0.18	1	1	0	600	600	0
12/24/2024 13:53	54601	SUMM_T2	3	4	1	0.33	0.35	0.02	-1.73	-1.74	2	2	0	2100	2100	0
12/24/2024 13:54	52502	PROG_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
12/24/2024 14:09	64904	MILL_T1	4	8	4	0.2	0.16	-0.04	-0.27	-0.29	0	0	0	0	0	0
12/24/2024 14:09	64901	MILL_T1	62	76	14	0.23	0.27	0.04	0	0	0	0	0	0	0	0
12/24/2024 14:12	54501	ENOL_T2	0	0	0	0	0	0	-0.96	-1.02	2	2	0	1200	1200	0
12/24/2024 14:12	11103	EGYP_T1	1	1	0	3.3	3.7	0.4	0	0	0	0	0	0	0	0
12/24/2024 14:12	11104	EGYP_T1	6	16	10	0.22	0.3	0.08	0	0	0	0	0	0	0	0
12/24/2024 14:12	54505	ENOL_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
12/24/2024 14:12	11101	EGYP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/24/2024 14:14	11103	EGYP_T1	1	1	0	3.3	3.7	0.4	0.42	0.45	0	0	0	0	0	0
12/24/2024 14:14	63804	HEMP_T1	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
12/24/2024 14:14	63802	HEMP_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
12/24/2024 14:14	11104	EGYP_T1	6	16	10	0.22	0.3	0.08	0	0	0	0	0	0	0	0
12/24/2024 14:14	11101	EGYP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/24/2024 14:15	60104	COCA_T2	3	4	1	0.13	0.2	0.07	0	0	0	0	0	0	0	0
12/24/2024 14:15	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 14:27	60102	COCA_T1	0	0	0	0	0	0	-0.9	-0.66	2	2	0	1200	1200	0
12/24/2024 14:28	44301	BEAV_T2	2	2	0	0.9	1.3	0.4	-1.47	-1.51	1	1	0	600	600	0
12/24/2024 14:31	13503	MCMI_T2	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
12/24/2024 14:37	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/24/2024 14:38	13503	MCMI_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
12/24/2024 14:42	60201	ATGL_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
12/24/2024 14:58	62604	ENGL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/24/2024 14:58	62605	ENGL_T1	2	16	14	0.1	0.11	0.01	0	0	0	0	0	0	0	0
12/24/2024 14:58	62606	ENGL_T1	79	77	-2	0.16	0.23	0.07	0	0	0	0	0	0	0	0
12/24/2024 14:58	62607	ENGL_T1	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
12/24/2024 14:59	62607	ENGL_T1	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
12/24/2024 14:59	62605	ENGL_T1	2	16	14	0.1	0.11	0.01	0	0	0	0	0	0	0	0
12/24/2024 14:59	62606	ENGL_T1	79	77	-2	0.16	0.23	0.07	0	0	0	0	0	0	0	0
12/24/2024 14:59	62604	ENGL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/24/2024 15:06	15103	UPHA_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
12/24/2024 15:07	55001	NEWP_T1	0	0	0	0	0	0	-0.24	-0.19	0	0	0	0	0	0
12/24/2024 15:07	55002	NEWP_T1	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
12/24/2024 15:12	18001	ZION_T1	2	2	0	9.45	9.15	-0.3	0	0	0	0	0	0	0	0
12/24/2024 15:12	60301	TWVA_T2	0	0	0	0	0	0	-1.19	-1.16	1	1	0	1200	1200	0
12/24/2024 15:13	67402	WAKE_T2	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
12/24/2024 15:13	67401	WAKE_T2	43	29	-14	0.35	0.27	-0.08	0	0	0	0	0	0	0	0
12/24/2024 18:10	21501	CEAV_T2	0	0	0	0	0	0	1.13	1.06	0	0	0	0	0	0
12/24/2024 18:18	14801	TREI_T2	1	1	0	0.6	0.5	-0.1	0.73	0.75	0	0	0	0	0	0
12/24/2024 18:24	54506	ENOL_T2	0	0	0	0	0	0	0.36	0.35	0	1	1	0	600	600
12/24/2024 18:24	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
12/24/2024 18:27	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
12/24/2024 18:28	63601	LETO_T1	0	1	1	0	0.1	0.1	0.99	1.04	0	0	0	0	0	0
12/24/2024 18:28	64401	LAND_T1	0	0	0	0	0	0	-1.09	-1.08	1	1	0	600	600	0
12/24/2024 18:28	54203	PENN_T1	18	18	0	1.23	1.25	0.02	-0.07	-0.03	0	0	0	0	0	0
12/24/2024 18:28	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
12/24/2024 18:28	54201	PENN_T1	10	8	-2	0.66	0.78	0.12	0	0	0	0	0	0	0	0
12/24/2024 18:29	62605	ENGL_T1	0	1	1	0	0.1	0.1	-1.17	-1.18	0	0	0	0	0	0
12/24/2024 18:29	62606	ENGL_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
12/24/2024 18:29	58202	NEWV_T1	0	4	4	0	0.28	0.28	-0.3	-0.38	0	0	0	0	0	0
12/24/2024 18:30	44301	BEAV_T2	1	1	0	2.1	2	-0.1	-1.61	-1.62	1	1	0	600	600	0
12/24/2024 18:30	57201	ROSS_T1	179	251	72	0.29	0.3	0.01	-1.22	-1.22	0	0	0	0	0	0
12/24/2024 18:30	54501	ENOL_T2	0	0	0	0	0	0	-0.5	-0.5	1	1	0	600	600	0
12/24/2024 18:30	57203	ROSS_T1	4	5	1	0.1	0.14	0.04	0	0	0	0	0	0	0	0
12/24/2024 18:30	14802	TREI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 18:30	14801	TREI_T2	1	1	0	0.2	0.5	0.3	0.75	0.67	0	0	0	0	0	0
12/24/2024 18:30	57205	ROSS_T1	456	445	-11	0.26	0.28	0.02	0	0	0	0	0	0	0	0
12/24/2024 18:30	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
12/24/2024 18:31	57201	ROSS_T1	179	251	72	0.29	0.3	0.01	-1.22	-1.22	0	0	0	0	0	0
12/24/2024 18:31	44505	HAMI_T2	5	7	2	0.18	0.21	0.03	0	0	0	0	0	0	0	0
12/24/2024 18:31	57203	ROSS_T1	4	5	1	0.1	0.14	0.04	0	0	0	0	0	0	0	0
12/24/2024 18:31	44502	HAMI_T2	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
12/24/2024 18:31	64204	KINZ_T1	4	4	0	0.18	0.28	0.1	0	0	0	0	0	0	0	0
12/24/2024 18:31	57205	ROSS_T1	456	445	-11	0.26	0.28	0.02	0	0	0	0	0	0	0	0
12/24/2024 18:31	64202	KINZ_T1	3	2	-1	0.17	0.25	0.08	0	0	0	0	0	0	0	0
12/24/2024 18:31	64201	KINZ_T1	4	4	0	0.33	0.35	0.02	-0.84	-0.78	3	3	0	1500	1500	0
12/24/2024 18:32	57203	ROSS_T1	4	5	1	0.1	0.14	0.04	0	0	0	0	0	0	0	0
12/24/2024 18:32	57205	ROSS_T1	456	445	-11	0.26	0.28	0.02	0	0	0	0	0	0	0	0
12/24/2024 18:32	57201	ROSS_T1	179	251	72	0.29	0.3	0.01	-1.22	-1.22	0	0	0	0	0	0
12/24/2024 18:32	42701	AUGU_T1	12	15	3	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
12/24/2024 18:32	18001	ZION_T1	2	2	0	9.05	8.85	-0.2	0	0	0	0	0	0	0	0
12/24/2024 18:33	45802	HEGI_T2	46	48	2	1.56	1.59	0.03	0.73	0.74	0	0	0	0	0	0
12/24/2024 18:34	66505	SMAN_T2	3	3	0	0.67	1.23	0.56	0	0	0	0	0	0	0	0
12/24/2024 18:34	11903	ETEX_T1	0	0	0	0	0	0	0.43	0.37	0	0	0	0	0	0
12/24/2024 18:34	57205	ROSS_T1	456	445	-11	0.26	0.28	0.02	-0.18	-0.17	0	0	0	0	0	0
12/24/2024 18:34	66503	SMAN_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
12/24/2024 18:34	14801	TREI_T2	1	1	0	0.2	0.5	0.3	0.75	0.67	0	0	0	0	0	0
12/24/2024 18:34	62605	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/24/2024 18:34	57201	ROSS_T1	179	251	72	0.29	0.3	0.01	0	0	0	0	0	0	0	0
12/24/2024 18:34	14802	TREI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 18:34	57203	ROSS_T1	4	5	1	0.1	0.14	0.04	0	0	0	0	0	0	0	0
12/24/2024 18:34	61001	DONV_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
12/24/2024 18:34	63501	HEID_TBK1-2	41	169	128	0.45	0.42	-0.03	0	0	0	0	0	0	0	0
12/24/2024 18:34	62607	ENGL_T1	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
12/24/2024 18:34	62606	ENGL_T1	9	21	12	0.1	0.1	0	0	0	0	0	0	0	0	0
12/24/2024 18:35	57205	ROSS_T1	456	445	-11	0.26	0.28	0.02	0	0	0	0	0	0	0	0
12/24/2024 18:35	60902	DONG_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/24/2024 18:35	57203	ROSS_T1	4	5	1	0.1	0.14	0.04	0	0	0	0	0	0	0	0
12/24/2024 18:35	66505	SMAN_T2	3	3	0	0.67	1.23	0.56	0	0	0	0	0	0	0	0
12/24/2024 18:35	63305	GREE_T1	15	12	-3	0.51	0.34	-0.17	-1.64	-1.65	0	0	0	0	0	0
12/24/2024 18:35	64703	LITI_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
12/24/2024 18:35	66502	SMAN_T2	0	0	0	0	0	0	0.09	-0.03	0	0	0	0	0	0
12/24/2024 18:35	60903	DONG_T2	0	1	1	0	0.2	0.2	0.57	0.59	0	0	0	0	0	0
12/24/2024 18:35	64702	LITI_T2	0	4	4	0	0.1	0.1	-0.94	-0.95	0	0	0	0	0	0
12/24/2024 18:35	54501	ENOL_T2	0	0	0	0	0	0	-0.99	-1	2	2	0	1200	1200	0
12/24/2024 18:35	57201	ROSS_T1	179	251	72	0.29	0.3	0.01	-1.22	-1.22	0	0	0	0	0	0
12/24/2024 18:35	63501	HEID_TBK1-2	41	169	128	0.45	0.42	-0.03	-0.41	-0.44	1	1	0	900	900	0
12/24/2024 18:35	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
12/24/2024 18:36	66505	SMAN_T2	3	3	0	0.67	1.23	0.56	0	0	0	0	0	0	0	0
12/24/2024 18:36	54201	PENN_T1	8	8	0	0.63	0.83	0.2	0	0	0	0	0	0	0	0
12/24/2024 18:36	40802	EXCH_T2	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
12/24/2024 18:36	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
12/24/2024 18:36	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 18:36	40801	EXCH_T2	3	1	-2	0.23	0.2	-0.03	-0.45	-0.44	1	1	0	1200	1200	0
12/24/2024 18:36	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
12/24/2024 18:36	61001	DONV_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
12/24/2024 18:36	63802	HEMP_T1	0	0	0	0	0	0	0.19	0.11	0	0	0	0	0	0
12/24/2024 18:36	67001	STHI_T2	72	173	101	0.12	0.13	0.01	0	0	0	0	0	0	0	0
12/24/2024 18:36	10801	OHHI_T1	0	0	0	0	0	0	-1.41	-1.42	2	2	0	1500	1500	0
12/24/2024 18:36	54601	SUMM_T2	2	4	2	0.35	0.4	0.05	-1.82	-1.84	2	2	0	2100	2100	0
12/24/2024 18:36	67002	STHI_T2	8	30	22	0.11	0.14	0.03	0.63	0.63	0	0	0	0	0	0
12/24/2024 18:36	54203	PENN_T1	18	18	0	1.09	1.31	0.22	-0.03	-0.03	0	0	0	0	0	0
12/24/2024 18:36	57602	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 18:37	64802	MONE_T2	1	4	3	0.1	0.13	0.03	-0.03	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/24/2024 18:37	66502	SMAN_T2	0	0	0	0	0	0	-0.03	0.06	0	0	0	0	0	0
12/24/2024 18:37	54601	SUMM_T2	2	4	2	0.35	0.4	0.05	0	0	0	0	0	0	0	0
12/24/2024 18:37	66505	SMAN_T2	3	3	0	0.67	1.23	0.56	0	0	0	0	0	0	0	0
12/24/2024 18:37	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/24/2024 18:37	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/24/2024 18:38	66502	SMAN_T2	0	0	0	0	0	0	-0.03	0.06	0	0	0	0	0	0
12/24/2024 18:38	52402	GRPA_T2	3	1	-2	0.5	0.1	-0.4	-0.74	-0.74	0	0	0	0	0	0
12/24/2024 18:38	15101	UPHA_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
12/24/2024 18:38	44301	BEAV_T2	1	1	0	2.1	2	-0.1	-1.62	-1.62	1	1	0	600	600	0
12/24/2024 18:38	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 18:38	51204	MTON_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
12/24/2024 18:38	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 18:38	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/24/2024 18:38	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
12/24/2024 18:38	64802	MONE_T2	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/24/2024 18:38	60201	ATGL_T2	1	9	8	0.1	0.2	0.1	0.01	-0.15	0	0	0	0	0	0
12/24/2024 18:38	66505	SMAN_T2	3	3	0	0.67	1.23	0.56	0	0	0	0	0	0	0	0
12/24/2024 18:39	60902	DONG_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/24/2024 18:39	40101	HUNT_T2	141	249	108	0.84	0.79	-0.05	0	0	0	0	0	0	0	0
12/24/2024 18:39	60903	DONG_T2	0	1	1	0	0.2	0.2	0.59	0.59	0	0	0	0	0	0
12/24/2024 18:39	64204	KINZ_T1	4	4	0	0.18	0.28	0.1	0	0	0	0	0	0	0	0
12/24/2024 18:39	62607	ENGL_T1	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
12/24/2024 18:39	62605	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/24/2024 18:39	13503	MCMI_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
12/24/2024 18:39	45802	HEGI_T2	46	48	2	1.56	1.59	0.03	0.74	0.74	0	0	0	0	0	0
12/24/2024 18:39	62606	ENGL_T1	9	21	12	0.1	0.1	0	0	0	0	0	0	0	0	0
12/24/2024 18:39	64201	KINZ_T1	4	4	0	0.33	0.35	0.02	0	0	0	0	0	0	0	0
12/24/2024 18:39	64202	KINZ_T1	3	2	-1	0.17	0.25	0.08	0.69	0.67	0	0	0	0	0	0
12/24/2024 18:40	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/24/2024 18:40	54601	SUMM_T2	2	4	2	0.35	0.4	0.05	0	0	0	0	0	0	0	0
12/24/2024 18:41	58202	NEWV_T1	0	4	4	0	0.28	0.28	-0.19	-0.31	0	0	0	0	0	0
12/24/2024 18:41	63305	GREE_T1	15	12	-3	0.51	0.34	-0.17	0	0	0	0	0	0	0	0
12/24/2024 18:41	48303	ORWI_T2	8	26	18	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
12/24/2024 18:41	48302	ORWI_T2	61	90	29	0.25	0.36	0.11	0.08	0.07	0	0	0	0	0	0
12/24/2024 18:41	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/24/2024 18:41	63306	GREE_T1	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
12/24/2024 18:42	11104	EGYP_T1	3	3	0	1.57	0.1	-1.47	0	0	0	0	0	0	0	0
12/24/2024 18:42	60301	TWVA_T2	0	0	0	0	0	0	-1.31	-1.3	1	1	0	1200	1200	0
12/24/2024 18:42	11103	EGYP_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
12/24/2024 18:42	52502	PROG_T2	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
12/24/2024 18:42	64403	LAND_T1	0	0	0	0	0	0	-2	-2	1	1	0	900	900	0
12/24/2024 18:42	15103	UPHA_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
12/24/2024 18:43	63501	HEID_TBK1-2	41	169	128	0.45	0.42	-0.03	-0.44	-0.51	1	1	0	900	900	0
12/24/2024 18:43	64202	KINZ_T1	3	2	-1	0.17	0.25	0.08	0	0	0	0	0	0	0	0
12/24/2024 18:43	60902	DONG_T2	1	2	1	0.1	0.2	0.1	0.5	0.55	0	0	0	0	0	0
12/24/2024 18:43	63305	GREE_T1	15	12	-3	0.51	0.34	-0.17	-1.65	-1.64	0	0	0	0	0	0
12/24/2024 18:43	52502	PROG_T2	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
12/24/2024 18:43	44301	BEAV_T2	1	1	0	2.1	2	-0.1	-1.62	-1.62	1	1	0	600	600	0
12/24/2024 18:43	64201	KINZ_T1	4	4	0	0.33	0.35	0.02	0	0	0	0	0	0	0	0
12/24/2024 18:43	66505	SMAN_T2	3	3	0	0.67	1.23	0.56	0	0	0	0	0	0	0	0
12/24/2024 18:43	67402	WAKE_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
12/24/2024 18:43	64204	KINZ_T1	4	4	0	0.18	0.28	0.1	0	0	0	0	0	0	0	0
12/24/2024 18:43	60903	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/24/2024 18:43	67401	WAKE_T2	17	26	9	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/24/2024 18:43	66502	SMAN_T2	0	0	0	0	0	0	-0.03	0.06	0	0	0	0	0	0
12/24/2024 18:43	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
12/24/2024 18:43	64203	KINZ_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
12/24/2024 18:44	63303	GREE_T1	0	0	0	0	0	0	-0.2	-0.17	1	1	0	600	600	0
12/24/2024 18:44	61701	ELIZ_T1	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
12/24/2024 18:44	61703	ELIZ_T1	0	0	0	0	0	0	-1.94	-1.8	1	1	0	900	900	0
12/24/2024 18:44	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
12/24/2024 18:44	54504	ENOL_T2	0	0	0	0	0	0	-1	-1.02	1	1	0	600	600	0
12/24/2024 18:44	63305	GREE_T1	15	12	-3	0.51	0.34	-0.17	0	0	0	0	0	0	0	0
12/24/2024 18:45	66502	SMAN_T2	0	0	0	0	0	0	-0.07	0.12	0	0	0	0	0	0
12/24/2024 18:45	13503	MCMI_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
12/24/2024 18:45	64802	MONE_T2	1	9	8	0.2	0.12	-0.08	0	0	0	0	0	0	0	0
12/24/2024 18:45	52502	PROG_T2	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
12/24/2024 18:45	58402	MORO_T1	0	0	0	0	0	0	-0.71	-0.77	2	2	0	1500	1500	0
12/24/2024 18:45	60102	COCA_T1	0	0	0	0	0	0	-0.17	-0.17	1	1	0	600	600	0
12/24/2024 18:45	66505	SMAN_T2	3	3	0	1.23	1.1	-0.13	0	0	0	0	0	0	0	0
12/24/2024 18:45	64801	MONE_T2	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/24/2024 18:45	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
12/24/2024 18:46	64802	MONE_T2	1	9	8	0.2	0.12	-0.08	-0.03	-0.01	0	0	0	0	0	0
12/24/2024 18:46	66505	SMAN_T2	3	3	0	1.23	1.1	-0.13	0	0	0	0	0	0	0	0
12/24/2024 18:46	66503	SMAN_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
12/24/2024 18:46	61701	ELIZ_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
12/24/2024 18:46	61703	ELIZ_T1	0	0	0	0	0	0	-1.94	-1.8	1	1	0	900	900	0
12/24/2024 18:46	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 18:46	52402	GRPA_T2	1	3	2	0.1	0.13	0.03	-0.74	-0.74	0	0	0	0	0	0
12/24/2024 18:46	64801	MONE_T2	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/24/2024 18:47	55002	NEWP_T1	2	3	1	0.6	0.3	-0.3	-0.21	-0.18	0	0	0	0	0	0
12/24/2024 18:47	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 18:47	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
12/24/2024 18:47	63801	HEMP_T1	0	0	0	0	0	0	-0.38	-0.17	0	0	0	0	0	0
12/24/2024 18:48	64202	KINZ_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
12/24/2024 18:48	66505	SMAN_T2	3	3	0	1.23	1.1	-0.13	0	0	0	0	0	0	0	0
12/24/2024 18:48	52502	PROG_T2	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
12/24/2024 18:48	64201	KINZ_T1	4	4	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
12/24/2024 18:48	64204	KINZ_T1	3	2	-1	0.13	0.5	0.37	0	0	0	0	0	0	0	0
12/24/2024 18:48	66502	SMAN_T2	0	0	0	0	0	0	-0.03	0.06	0	0	0	0	0	0
12/24/2024 18:49	67402	WAKE_T2	19	26	7	0.21	0.25	0.04	-1.16	-1.14	0	0	0	0	0	0
12/24/2024 18:50	63501	HEID_TBK1-2	127	167	40	0.4	0.42	0.02	-0.44	-0.51	1	1	0	900	900	0
12/24/2024 18:50	11104	EGYP_T1	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
12/24/2024 18:50	64203	KINZ_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
12/24/2024 18:50	64202	KINZ_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
12/24/2024 18:50	64201	KINZ_T1	4	4	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
12/24/2024 18:50	64204	KINZ_T1	3	2	-1	0.13	0.5	0.37	0	0	0	0	0	0	0	0
12/24/2024 18:51	53903	HALI_T2	2	6	4	0.8	0.48	-0.32	-0.08	-0.08	0	0	0	0	0	0
12/24/2024 18:51	53901	HALI_T2	5	8	3	0.34	0.34	0	0	0	0	0	0	0	0	0
12/24/2024 18:51	53902	HALI_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
12/24/2024 18:53	55001	NEWP_T1	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
12/24/2024 18:53	53501	EVIL_T2	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
12/24/2024 18:53	64702	LITI_T2	4	4	0	0.1	0.1	0	-0.94	-0.96	0	0	0	0	0	0
12/24/2024 18:53	40101	HUNT_T2	235	306	71	0.84	0.81	-0.03	-1.6	-1.62	0	0	0	0	0	0
12/24/2024 18:53	55002	NEWP_T1	2	3	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
12/24/2024 18:53	63302	GREE_T1	0	0	0	0	0	0	0.21	0.26	0	0	0	0	0	0
12/24/2024 18:53	64703	LITI_T2	5	8	3	0.1	0.11	0.01	0	0	0	0	0	0	0	0
12/24/2024 18:53	65502	MOJO_T2	178	270	92	0.14	0.24	0.1	0	0	0	0	0	0	0	0
12/24/2024 18:53	63305	GREE_T1	12	14	2	0.34	0.39	0.05	0	0	0	0	0	0	0	0
12/24/2024 18:53	65503	MOJO_T2	0	49	49	0	0.13	0.13	0	0	0	0	0	0	0	0
12/24/2024 18:54	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
12/24/2024 18:55	64703	LITI_T2	5	8	3	0.1	0.11	0.01	0	0	0	0	0	0	0	0
12/24/2024 18:55	64702	LITI_T2	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/24/2024 18:55	63501	HEID_TBK1-2	127	167	40	0.4	0.42	0.02	-0.51	-0.27	1	1	0	900	900	0
12/24/2024 18:56	61304	EARL_T1	0	0	0	0	0	0	-0.9	-0.8	1	1	0	600	600	0
12/24/2024 18:57	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 18:58	44301	BEAV_T2	1	1	0	2.2	1.8	-0.4	-1.62	-1.62	1	1	0	600	600	0
12/24/2024 19:01	52502	PROG_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
12/24/2024 19:41	57602	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/24/2024 20:02	40802	EXCH_T2	1	1	0	0.1	0.1	0	-0.24	-0.24	0	0	0	0	0	0
12/24/2024 20:02	40801	EXCH_T2	2	3	1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
12/24/2024 20:17	64901	MILL_T1	53	87	34	0.18	0.29	0.11	0	0	0	0	0	0	0	0
12/24/2024 20:17	64904	MILL_T1	1	12	11	0.2	0.18	-0.02	-0.39	-0.39	0	0	0	0	0	0
12/24/2024 21:17	64204	KINZ_T1	1	1	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
12/24/2024 21:17	64201	KINZ_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
12/24/2024 21:17	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
12/25/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
12/25/2024 9:08	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/25/2024 9:08	54501	ENOL_T2	0	0	0	0	0	0	-0.51	-0.52	1	1	0	600	600	0
12/25/2024 9:35	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 9:45	61802	EELI_T2	0	0	0	0	0	0	-0.29	-0.33	0	0	0	0	0	0
12/25/2024 9:46	51204	MTON_T2	0	0	0	0	0	0	-0.41	-0.43	1	1	0	600	600	0
12/25/2024 9:50	14401	SSLA_T1	1	0	-1	0.1	0	-0.1	-1.59	-1.57	2	2	0	1800	1800	0
12/25/2024 9:50	14402	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 9:54	54602	SUMM_T2	2	2	0	0.2	0.25	0.05	-1.78	-1.78	2	2	0	2100	2100	0
12/25/2024 9:56	10801	CHHI_T1	3	1	-2	0.73	1.6	0.87	-1.41	-1.4	2	2	0	1500	1500	0
12/25/2024 9:58	11104	EGYP_T1	6	4	-2	0.37	0.5	0.13	0	0	0	0	0	0	0	0
12/25/2024 10:04	64203	KINZ_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
12/25/2024 10:04	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/25/2024 10:05	41901	REED_T1	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
12/25/2024 10:05	41902	REED_T1	26	40	14	0.35	0.26	-0.09	0.97	0.97	0	0	0	0	0	0
12/25/2024 10:08	41902	REED_T1	26	40	14	0.35	0.26	-0.09	1.93	1.98	0	0	0	0	0	0
12/25/2024 10:08	41901	REED_T1	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
12/25/2024 10:08	13704	SCHN_T2	0	0	0	0	0	0	-0.88	-0.91	0	0	0	0	0	0
12/25/2024 10:11	60301	TWVA_T2	0	0	0	0	0	0	-3.27	-3.29	2	2	0	1800	1800	0
12/25/2024 10:17	44502	HAMI_T2	1	1	0	1.8	2.2	0.4	0	0	0	0	0	0	0	0
12/25/2024 10:17	44503	HAMI_T2	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
12/25/2024 10:17	44505	HAMI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 10:18	53803	MBRG_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
12/25/2024 10:18	44502	HAMI_T2	1	1	0	1.8	2.2	0.4	0	0	0	0	0	0	0	0
12/25/2024 10:18	44505	HAMI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 10:19	64203	KINZ_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
12/25/2024 10:19	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/25/2024 10:35	55002	NEWP_T1	3	5	2	0.43	0.56	0.13	-0.17	-0.19	0	0	0	0	0	0
12/25/2024 10:37	44901	SCOT_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 10:37	44902	SCOT_T2	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
12/25/2024 10:42	29401	BELT_T1	2	1	-1	0.1	0.1	0	0	0	1	1	0	900	900	0
12/25/2024 10:42	29402	BELT_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
12/25/2024 10:44	61703	ELIZ_T1	0	0	0	0	0	0	-1.85	-1.86	1	1	0	900	900	0
12/25/2024 10:44	61701	ELIZ_T1	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
12/25/2024 10:45	13503	MCMI_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
12/25/2024 10:46	52001	LING_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/25/2024 10:50	57205	ROSS_T1	0	0	0	0	0	0	-0.16	-0.14	0	0	0	0	0	0
12/25/2024 10:54	67402	WAKE_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
12/25/2024 10:54	67401	WAKE_T2	39	41	2	0.21	0.23	0.02	0	0	0	0	0	0	0	0
12/25/2024 11:07	57201	ROSS_T1	0	0	0	0	0	0	-2.44	-2.52	0	0	0	0	0	0
12/25/2024 11:08	57201	ROSS_T1	0	0	0	0	0	0	-2.44	-2.52	0	0	0	0	0	0
12/25/2024 11:11	44301	BEAV_T2	1	1	0	2	2	0	-1.57	-1.58	1	1	0	600	600	0
12/25/2024 11:13	44301	BEAV_T2	1	1	0	2	2	0	-1.57	-1.58	1	1	0	600	600	0
12/25/2024 11:14	11103	EGYP_T1	0	0	0	0	0	0	-0.91	-0.91	0	0	0	0	0	0
12/25/2024 11:14	11104	EGYP_T1	9	10	1	0.28	0.15	-0.13	0	0	0	0	0	0	0	0
12/25/2024 11:16	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 11:19	57203	ROSS_T1	0	0	0	0	0	0	-0.2	-0.23	0	0	0	0	0	0
12/25/2024 11:21	55002	NEWP_T1	4	6	2	0.78	0.47	-0.31	-0.18	-0.2	0	0	0	0	0	0
12/25/2024 11:22	55002	NEWP_T1	4	6	2	0.78	0.47	-0.31	0	0	0	0	0	0	0	0
12/25/2024 11:22	55001	NEWP_T1	0	0	0	0	0	0	-0.37	-0.33	0	0	0	0	0	0
12/25/2024 11:24	42701	AUGU_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/25/2024 11:25	46005	BERW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 11:25	46001	BERW_T1	1	0	-1	0.9	0	-0.9	0.82	0.78	0	0	0	0	0	0
12/25/2024 11:26	42701	AUGU_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/25/2024 11:29	52403	GRPA_T2	0	1	1	0	0.1	0.1	-0.2	-0.2	0	0	0	0	0	0
12/25/2024 11:29	52402	GRPA_T2	4	8	4	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
12/25/2024 11:32	11507	FREE_T2	1	1	0	1.6	0	-1.6	0.24	0.25	0	0	0	0	0	0
12/25/2024 11:32	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 11:33	63501	HEID_TBK1-2	1	6	5	0.1	0.12	0.02	-0.26	-0.29	1	1	0	900	900	0
12/25/2024 11:35	44901	SCOT_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
12/25/2024 11:36	13702	SCHN_T1	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
12/25/2024 11:37	48303	ORWI_T2	0	0	0	0	0	0	0.42	0.39	0	0	0	0	0	0
12/25/2024 11:37	48302	ORWI_T2	6	2	-4	0.57	1.4	0.83	0	0	0	0	0	0	0	0
12/25/2024 11:38	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/25/2024 11:38	14601	SWHI_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
12/25/2024 11:38	13702	SCHN_T1	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
12/25/2024 11:40	14601	SWHI_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
12/25/2024 11:40	61103	BERK_T5	0	0	0	0	0	0	0.18	0.09	0	0	0	0	0	0
12/25/2024 11:40	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 11:40	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/25/2024 11:41	61103	BERK_T5	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
12/25/2024 11:41	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 11:43	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 11:43	61103	BERK_T5	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
12/25/2024 11:44	53903	HALI_T2	2	2	0	1.15	1.2	0.05	-0.18	-0.17	0	0	0	0	0	0
12/25/2024 11:44	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 11:44	53901	HALI_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
12/25/2024 11:44	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
12/25/2024 11:44	61103	BERK_T5	0	0	0	0	0	0	0.18	0.09	0	0	0	0	0	0
12/25/2024 11:47	64702	LITI_T2	0	4	4	0	0.1	0.1	-0.97	-0.93	0	0	0	0	0	0
12/25/2024 11:47	64703	LITI_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 11:48	64702	LITI_T2	0	4	4	0	0.1	0.1	-0.97	-0.93	0	0	0	0	0	0
12/25/2024 11:48	64703	LITI_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 11:50	52403	GRPA_T2	0	2	2	0	0.1	0.1	-0.2	-0.22	0	0	0	0	0	0
12/25/2024 11:50	52404	GRPA_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
12/25/2024 11:50	52402	GRPA_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
12/25/2024 11:54	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 11:54	43304	WATS_T2	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/25/2024 11:56	61305	EARL_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
12/25/2024 11:57	67401	WAKE_T2	45	54	9	0.22	0.25	0.03	-0.89	-0.88	0	0	0	0	0	0
12/25/2024 11:58	60902	DONG_T2	0	0	0	0	0	0	0.62	0.58	0	0	0	0	0	0
12/25/2024 11:59	50105	HARR_T3	19	19	0	4.33	4.43	0.1	0	0	0	0	0	0	0	0
12/25/2024 11:59	50202	HARR_T3	6	6	0	0.2	0.3	0.1	-0.36	-0.36	0	0	0	0	0	0
12/25/2024 11:59	50107	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 11:59	50201	HARR_T3	2	2	0	3.95	4.3	0.35	0	0	0	0	0	0	0	0
12/25/2024 11:59	50103	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 11:59	65205	PRIN_T1	1	1	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
12/25/2024 11:59	65202	PRIN_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
12/25/2024 12:10	15603	NSTR_T2	0	0	0	0	0	0	-1.1	-1.06	0	0	0	0	0	0
12/25/2024 12:12	10801	CHHI_T1	1	0	-1	0.2	0	-0.2	-1.45	-1.4	2	2	0	1500	1500	0
12/25/2024 12:14	63501	HEID_TBK1-2	6	21	15	0.12	0.2	0.08	-0.32	-0.27	1	1	0	900	900	0
12/25/2024 12:15	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
12/25/2024 12:15	61701	ELIZ_T1	1	1	0	5.5	5.6	0.1	-0.38	-0.4	0	0	0	0	0	0
12/25/2024 12:15	54506	ENOL_T2	0	0	0	0	0	0	0.26	0.4	1	1	0	600	600	0
12/25/2024 12:15	26704	HEML_T2	0	0	0	0	0	0	-0.84	-0.82	1	1	0	1200	1200	0
12/25/2024 12:16	53903	HALI_T2	2	2	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
12/25/2024 12:16	53902	HALI_T2	1	1	0	5.4	5.7	0.3	0	0	0	0	0	0	0	0
12/25/2024 12:16	53901	HALI_T2	1	4	3	0.5	0.38	-0.12	-1.39	-1.37	0	0	0	0	0	0
12/25/2024 12:17	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
12/25/2024 12:17	64201	KINZ_T1	1	3	2	0.4	0.5	0.1	-0.56	-0.55	2	2	0	1200	1200	0
12/25/2024 12:18	47101	MARL_T1	63	50	-13	1.26	1.01	-0.25	-1.11	-1.09	0	0	0	0	0	0
12/25/2024 12:18	63501	HEID_TBK1-2	15	38	23	0.16	0.28	0.12	-0.64	-0.54	2	2	0	1800	1800	0
12/25/2024 12:19	61102	BERK_T5	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
12/25/2024 12:19	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 12:19	64801	MONE_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
12/25/2024 12:19	61103	BERK_T5	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
12/25/2024 12:20	64305	LINC_T1	0	0	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
12/25/2024 12:24	13702	SCHN_T1	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
12/25/2024 12:28	10805	CHHI_T2	1	7	6	7.5	7.2	-0.3	-1.19	-1.22	1	1	0	600	600	0
12/25/2024 12:28	41301	FISH_T1	1	2	1	2.9	1.55	-1.35	-0.4	-0.41	0	0	0	0	0	0
12/25/2024 12:29	61701	ELIZ_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
12/25/2024 12:30	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 12:30	63801	HEMP_T1	0	0	0	0	0	0	-1.37	-1.36	1	1	0	900	900	0
12/25/2024 12:30	60902	DONG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/25/2024 12:30	63804	HEMP_T1	1	9	8	6.1	1.75	-4.35	0	0	0	0	0	0	0	0
12/25/2024 12:30	40602	PIGR_T1	1	1	0	2.9	2.7	-0.2	0	0	0	0	0	0	0	0
12/25/2024 12:31	63804	HEMP_T1	1	9	8	6.1	1.75	-4.35	0	0	0	0	0	0	0	0
12/25/2024 12:31	63801	HEMP_T1	0	0	0	0	0	0	-1.37	-1.36	1	1	0	900	900	0
12/25/2024 12:35	52502	PROG_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
12/25/2024 12:38	52502	PROG_T2	0	0	0	0	0	0	-0.5	0.47	1	0	-1	900	0	-900
12/25/2024 12:49	64302	LINC_T2	0	0	0	0	0	0	0.73	0.74	0	0	0	0	0	0
12/25/2024 12:49	64304	LINC_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
12/25/2024 12:52	64801	MONE_T2	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
12/25/2024 12:52	64802	MONE_T2	0	3	3	0	0.17	0.17	0.3	0.26	0	0	0	0	0	0
12/25/2024 12:53	66504	SMAN_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
12/25/2024 12:53	66502	SMAN_T2	0	0	0	0	0	0	-0.27	-0.22	0	0	0	0	0	0
12/25/2024 12:53	66505	SMAN_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/25/2024 12:55	66503	SMAN_T2	0	0	0	0	0	0	0.3	0.33	0	0	0	0	0	0
12/25/2024 12:55	66504	SMAN_T2	0	0	0	0	0	0	-1	-1.04	0	0	0	0	0	0
12/25/2024 12:55	66505	SMAN_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/25/2024 12:56	67401	WAKE_T2	94	89	-5	0.27	0.27	0	-0.85	-0.9	0	0	0	0	0	0
12/25/2024 13:02	55002	NEWP_T1	5	6	1	0.54	0.63	0.09	-0.21	-0.24	0	0	0	0	0	0
12/25/2024 13:03	64305	LINC_T1	0	0	0	0	0	0	-0.71	-0.75	0	0	0	0	0	0
12/25/2024 13:03	63501	HEID_TBK1-2	39	49	10	0.28	0.29	0.01	-0.35	-0.36	1	1	0	900	900	0
12/25/2024 13:03	55002	NEWP_T1	5	6	1	0.54	0.63	0.09	-0.21	-0.24	0	0	0	0	0	0
12/25/2024 13:04	64305	LINC_T1	0	0	0	0	0	0	-0.71	-0.75	0	0	0	0	0	0
12/25/2024 13:04	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 13:07	55002	NEWP_T1	5	6	1	0.54	0.63	0.09	-0.24	-0.22	0	0	0	0	0	0
12/25/2024 13:12	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
12/25/2024 13:12	54501	ENOL_T2	0	0	0	0	0	0	-0.53	-0.53	1	1	0	600	600	0
12/25/2024 13:12	16102	BING_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
12/25/2024 13:14	20603	GRWO_T2	0	4	4	0	0	0	-0.47	-0.49	1	1	0	900	900	0
12/25/2024 13:14	20601	GRWO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/25/2024 13:15	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
12/25/2024 13:15	54501	ENOL_T2	0	0	0	0	0	0	-0.53	-0.53	1	1	0	600	600	0
12/25/2024 13:19	13503	MCMI_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
12/25/2024 13:25	60701	BREC_T1	236	407	171	0.22	0.37	0.15	-1.6	-1.6	3	3	0	1800	1800	0
12/25/2024 13:26	60701	BREC_T1	236	407	171	0.22	0.37	0.15	-0.53	-0.53	1	1	0	600	600	0
12/25/2024 13:27	60701	BREC_T1	236	407	171	0.22	0.37	0.15	-1.06	-1.07	2	2	0	1200	1200	0
12/25/2024 13:28	60903	DONG_T2	0	1	1	0	0.2	0.2	0.02	0.04	1	1	0	600	600	0
12/25/2024 13:28	60701	BREC_T1	236	407	171	0.22	0.37	0.15	-0.53	-0.53	1	1	0	600	600	0
12/25/2024 13:28	60902	DONG_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 13:28	60901	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 13:30	60701	BREC_T1	203	440	237	0.19	0.39	0.2	-1.06	-1.07	2	2	0	1200	1200	0
12/25/2024 13:34	63501	HEID_TBK1-2	49	34	-15	0.29	0.26	-0.03	-0.51	-0.65	2	2	0	1800	1800	0
12/25/2024 13:34	52502	PROG_T2	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
12/25/2024 13:35	44702	MUNC_T2	72	87	15	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
12/25/2024 13:35	44701	MUNC_T2	5	5	0	0.16	0.18	0.02	-1.37	-1.37	0	0	0	0	0	0
12/25/2024 13:35	44703	MUNC_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
12/25/2024 13:36	54601	SUMM_T2	4	9	5	0.43	0.48	0.05	0	0	0	0	0	0	0	0
12/25/2024 13:36	44903	SCOT_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 13:36	14602	SWHI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/25/2024 13:36	52502	PROG_T2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
12/25/2024 13:36	54602	SUMM_T2	1	6	5	0.1	0.12	0.02	0	0	0	0	0	0	0	0
12/25/2024 13:36	44904	SCOT_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
12/25/2024 13:36	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/25/2024 13:37	52502	PROG_T2	0	0	0	0	0	0	0.86	0.83	0	0	0	0	0	0
12/25/2024 13:38	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 13:38	65207	PRIN_T4	10	5	-5	0.58	2.53	1.95	0	0	1	1	0	1200	1200	0
12/25/2024 13:39	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/25/2024 13:39	54601	SUMM_T2	4	9	5	0.43	0.48	0.05	0	0	0	0	0	0	0	0
12/25/2024 13:39	54602	SUMM_T2	1	6	5	0.1	0.12	0.02	0	0	0	0	0	0	0	0
12/25/2024 13:51	58402	MORO_T1	0	0	0	0	0	0	-1.08	-1.08	2	2	0	1500	1500	0
12/25/2024 14:04	46602	LACR_T1	0	2	2	0	0.1	0.1	-0.96	-0.98	0	0	0	0	0	0
12/25/2024 14:05	65202	PRIN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/25/2024 14:05	60701	BREC_T1	431	406	-25	0.38	0.3	-0.08	-1.06	-1.09	2	2	0	1200	1200	0
12/25/2024 14:05	65205	PRIN_T1	2	2	0	4.25	1.6	-2.65	0	0	0	0	0	0	0	0
12/25/2024 14:08	65207	PRIN_T4	4	6	2	3.53	1.75	-1.78	0	0	1	1	0	1200	1200	0
12/25/2024 14:08	65206	PRIN_T4	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 14:09	67401	WAKE_T2	90	108	18	0.31	0.28	-0.03	-0.91	-0.93	0	0	0	0	0	0
12/25/2024 14:09	67402	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 14:16	20601	GRWO_T2	0	0	0	0	0	0	-0.26	-0.22	0	0	0	0	0	0
12/25/2024 14:16	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 14:17	64305	LINC_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 14:17	64301	LINC_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
12/25/2024 14:18	52006	LING_T2	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
12/25/2024 14:18	52004	LING_T2	2	2	0	6	6.05	0.05	0.2	0.21	0	0	0	0	0	0
12/25/2024 14:19	64305	LINC_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 14:19	64301	LINC_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/25/2024 14:24	65207	PRIN_T4	6	3	-3	1.73	3.23	1.5	0	0	1	1	0	1200	1200	0
12/25/2024 14:24	65206	PRIN_T4	5	2	-3	0.94	0.1	-0.84	0	0	0	0	0	0	0	0
12/25/2024 14:25	67402	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 14:25	67401	WAKE_T2	84	117	33	0.24	0.29	0.05	0	0	0	0	0	0	0	0
12/25/2024 14:26	67401	WAKE_T2	84	117	33	0.24	0.29	0.05	0	0	0	0	0	0	0	0
12/25/2024 14:26	67402	WAKE_T2	0	1	1	0	0.1	0.1	0.45	0.44	0	0	0	0	0	0
12/25/2024 14:29	52403	GRPA_T2	0	1	1	0	0.2	0.2	-0.26	-0.23	0	0	0	0	0	0
12/25/2024 14:29	63305	GREE_T1	14	20	6	0.49	0.41	-0.08	0	0	0	0	0	0	0	0
12/25/2024 14:29	63301	GREE_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
12/25/2024 14:29	63302	GREE_T1	0	0	0	0	0	0	0.1	0.05	0	0	0	0	0	0
12/25/2024 14:29	52402	GRPA_T2	3	4	1	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
12/25/2024 14:31	63501	HEID_TBK1-2	33	35	2	0.35	0.28	-0.07	-0.34	-0.31	1	1	0	900	900	0
12/25/2024 14:31	63304	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 14:31	63301	GREE_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/25/2024 14:31	63305	GREE_T1	20	18	-2	0.4	0.44	0.04	-1.65	-1.65	0	0	0	0	0	0
12/25/2024 14:32	63305	GREE_T1	20	18	-2	0.4	0.44	0.04	-1.65	-1.65	0	0	0	0	0	0
12/25/2024 14:32	63304	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 14:32	63306	GREE_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
12/25/2024 14:32	63301	GREE_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/25/2024 14:33	63301	GREE_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/25/2024 14:33	63303	GREE_T1	0	0	0	0	0	0	-0.18	-0.2	1	1	0	600	600	0
12/25/2024 14:33	63305	GREE_T1	20	18	-2	0.4	0.44	0.04	0	0	0	0	0	0	0	0
12/25/2024 14:33	63304	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 14:42	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 14:42	60104	COCA_T2	3	4	1	0.13	0.3	0.17	0	0	0	0	0	0	0	0
12/25/2024 14:43	62606	ENGL_T1	143	101	-42	0.27	0.19	-0.08	-1.51	-1.52	1	1	0	900	900	0
12/25/2024 14:43	44301	BEAV_T2	3	3	0	0.63	0.63	0	0	0	0	0	0	0	0	0
12/25/2024 14:43	62604	ENGL_T1	4	4	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/25/2024 14:43	62602	ENGL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/25/2024 14:43	62605	ENGL_T1	35	27	-8	0.13	0.11	-0.02	0	0	0	0	0	0	0	0
12/25/2024 14:43	44302	BEAV_T2	8	3	-5	0.15	0.17	0.02	0.26	0.26	0	0	0	0	0	0
12/25/2024 14:50	59402	RFLD_T2	0	0	0	0	0	0	-1.8	-1.83	2	2	0	900	900	0
12/25/2024 14:54	59402	RFLD_T2	0	0	0	0	0	0	-0.91	-0.91	1	1	0	450	450	0
12/25/2024 15:00	61103	BERK_T5	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
12/25/2024 15:00	61101	BERK_T5	1	1	0	0.3	0.4	0.1	-0.95	-0.92	0	0	0	0	0	0
12/25/2024 15:00	61102	BERK_T5	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/25/2024 15:12	10801	CHHI_T1	0	0	0	0	0	0	-1.5	-1.52	2	2	0	1500	1500	0
12/25/2024 15:16	40101	HUNT_T2	133	103	-30	0.79	0.69	-0.1	-1.7	-1.7	0	0	0	0	0	0
12/25/2024 15:21	47101	MARL_T1	4	5	1	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
12/25/2024 15:21	47104	MARL_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
12/25/2024 15:35	47101	MARL_T1	5	3	-2	0.84	0	-0.84	-0.64	-0.69	0	0	0	0	0	0
12/25/2024 15:51	54602	SUMM_T2	2	5	3	0.1	0.1	0	-2.97	-3	1	1	0	600	600	0
12/25/2024 15:51	54601	SUMM_T2	7	7	0	0.51	0.6	0.09	0	0	0	0	0	0	0	0
12/25/2024 17:32	14401	SSLA_T1	0	0	0	0	0	0	-1.6	-1.57	2	2	0	1800	1800	0
12/25/2024 18:02	54602	SUMM_T2	0	0	0	0	0	0	-2.84	-2.88	1	1	0	600	600	0
12/25/2024 18:02	54601	SUMM_T2	1	3	2	0.2	0.37	0.17	0	0	0	0	0	0	0	0
12/25/2024 18:30	44503	HAMI_T2	0	0	0	0	0	0	-0.85	-0.87	0	0	0	0	0	0
12/25/2024 18:30	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 18:30	44502	HAMI_T2	1	1	0	3	2.8	-0.2	0	0	0	0	0	0	0	0
12/25/2024 18:30	44505	HAMI_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
12/25/2024 18:31	66504	SMAN_T2	0	0	0	0	0	0	-1.09	-1.07	0	0	0	0	0	0
12/25/2024 18:31	67401	WAKE_T2	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
12/25/2024 18:31	66505	SMAN_T2	3	3	0	1.03	1	-0.03	0	0	0	0	0	0	0	0
12/25/2024 18:32	40101	HUNT_T2	140	334	194	0.6	0.68	0.08	-1.64	-1.66	0	0	0	0	0	0
12/25/2024 18:32	13702	SCHN_T1	0	0	0	0	0	0	-0.64	-0.61	0	0	0	0	0	0
12/25/2024 18:32	14601	SWHI_T1	0	0	0	0	0	0	-0.78	-0.74	0	0	0	0	0	0
12/25/2024 18:33	26704	HEML_T2	0	0	0	0	0	0	-0.83	-0.82	1	1	0	1200	1200	0
12/25/2024 18:33	61701	ELIZ_T1	1	1	0	5.1	5.2	0.1	-0.38	-0.35	0	0	0	0	0	0
12/25/2024 18:33	63501	HEID_TBK1-2	1	1	0	0.7	0.6	-0.1	-0.55	-0.6	2	2	0	1800	1800	0
12/25/2024 18:34	63501	HEID_TBK1-2	1	1	0	0.7	0.6	-0.1	-0.27	-0.3	1	1	0	900	900	0
12/25/2024 18:34	44505	HAMI_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
12/25/2024 18:34	44703	MUNC_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/25/2024 18:34	44702	MUNC_T2	52	62	10	0.24	0.28	0.04	0	0	0	0	0	0	0	0
12/25/2024 18:34	44701	MUNC_T2	0	0	0	0	0	0	-1.32	-1.32	0	0	0	0	0	0
12/25/2024 18:34	44502	HAMI_T2	1	1	0	3	2.8	-0.2	0	0	0	0	0	0	0	0
12/25/2024 18:34	62606	ENGL_T1	0	0	0	0	0	0	-1.5	-1.5	1	1	0	900	900	0
12/25/2024 18:34	20603	GRWO_T2	10	1	-9	0.24	0.1	-0.14	-0.5	-0.52	1	1	0	900	900	0
12/25/2024 18:35	60301	TWVA_T2	0	0	0	0	0	0	-2.07	-2.05	2	2	0	1800	1800	0
12/25/2024 18:35	52004	LING_T2	2	2	0	5.6	5.55	-0.05	0.24	0.25	0	0	0	0	0	0
12/25/2024 18:35	61103	BERK_T5	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
12/25/2024 18:35	64204	KINZ_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
12/25/2024 18:35	61102	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/25/2024 18:35	52006	LING_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
12/25/2024 18:35	64201	KINZ_T1	1	1	0	0.4	0.4	0	-0.81	-0.81	3	3	0	1500	1500	0
12/25/2024 18:35	61101	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/25/2024 18:36	67402	WAKE_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
12/25/2024 18:36	67401	WAKE_T2	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
12/25/2024 18:36	63501	HEID_TBK1-2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
12/25/2024 18:36	47101	MARL_T1	5	5	0	0.62	0.4	-0.22	0	0	0	0	0	0	0	0
12/25/2024 18:36	61101	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/25/2024 18:36	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 18:36	13702	SCHN_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
12/25/2024 18:36	61102	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/25/2024 18:36	60701	BREC_T1	198	73	-125	0.17	0.15	-0.02	-0.48	-0.47	1	1	0	600	600	0
12/25/2024 18:36	61103	BERK_T5	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
12/25/2024 18:36	47104	MARL_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
12/25/2024 18:37	55002	NEWP_T1	4	5	1	0.7	0.64	-0.06	-0.2	-0.2	0	0	0	0	0	0
12/25/2024 18:37	46602	LACR_T1	0	0	0	0	0	0	-0.93	-0.97	0	0	0	0	0	0
12/25/2024 18:37	61102	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/25/2024 18:37	15603	NSTR_T2	0	0	0	0	0	0	-1.08	-1.06	0	0	0	0	0	0
12/25/2024 18:37	41901	REED_T1	6	4	-2	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
12/25/2024 18:37	15601	NSTR_T2	1	6	5	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
12/25/2024 18:37	61101	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/25/2024 18:37	54505	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/25/2024 18:37	60701	BREC_T1	198	73	-125	0.17	0.15	-0.02	-0.47	-0.47	1	1	0	600	600	0
12/25/2024 18:37	64302	LINC_T2	0	0	0	0	0	0	0.72	0.78	0	0	0	0	0	0
12/25/2024 18:37	61103	BERK_T5	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
12/25/2024 18:37	54501	ENOL_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
12/25/2024 18:37	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 18:37	67401	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 18:37	41902	REED_T1	1	6	5	0.1	0.1	0	0.95	0.97	0	0	0	0	0	0
12/25/2024 18:37	64702	LITI_T2	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
12/25/2024 18:38	44904	SCOT_T1	10	43	33	0.14	0.2	0.06	-0.02	-0.04	0	0	0	0	0	0
12/25/2024 18:38	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
12/25/2024 18:38	61103	BERK_T5	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
12/25/2024 18:38	44903	SCOT_T1	24	64	40	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
12/25/2024 18:38	11507	FREE_T2	2	1	-1	0.5	0.7	0.2	0.38	0.26	0	0	0	0	0	0
12/25/2024 18:38	64802	MONE_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
12/25/2024 18:38	20603	GRWO_T2	10	1	-9	0.24	0.1	-0.14	0	0	0	0	0	0	0	0
12/25/2024 18:38	53901	HALI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/25/2024 18:38	61102	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/25/2024 18:38	61101	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/25/2024 18:38	63501	HEID_TBK1-2	1	1	0	0.7	0.6	-0.1	-0.3	-0.35	1	1	0	900	900	0
12/25/2024 18:38	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 18:38	55002	NEWP_T1	4	5	1	0.7	0.64	-0.06	-0.2	-0.2	0	0	0	0	0	0
12/25/2024 18:38	20601	GRWO_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
12/25/2024 18:38	53903	HALI_T2	2	2	0	0.35	1	0.65	0	0	0	0	0	0	0	0
12/25/2024 18:39	60902	DONG_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/25/2024 18:39	55001	NEWP_T1	0	0	0	0	0	0	-0.36	-0.32	0	0	0	0	0	0
12/25/2024 18:39	55002	NEWP_T1	4	5	1	0.7	0.64	-0.06	-0.2	-0.2	0	0	0	0	0	0
12/25/2024 18:39	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 18:39	64301	LINC_T1	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
12/25/2024 18:39	54601	SUMM_T2	3	2	-1	0.3	0.4	0.1	-1.81	-1.83	2	2	0	2100	2100	0
12/25/2024 18:39	60701	BREC_T1	198	73	-125	0.17	0.15	-0.02	-0.94	-0.94	2	2	0	1200	1200	0
12/25/2024 18:39	53901	HALI_T2	1	1	0	0.5	0.5	0	-1.37	-1.41	0	0	0	0	0	0
12/25/2024 18:39	63306	GREE_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
12/25/2024 18:39	59402	RFLD_T2	0	0	0	0	0	0	-0.86	-0.88	1	1	0	450	450	0
12/25/2024 18:39	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/25/2024 18:39	63305	GREE_T1	3	3	0	0.23	0.23	0	-1.68	-1.67	0	0	0	0	0	0
12/25/2024 18:39	53903	HALI_T2	2	2	0	0.35	1	0.65	0	0	0	0	0	0	0	0
12/25/2024 18:39	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
12/25/2024 18:39	29402	BELT_T1	1	1	0	5.5	5.8	0.3	0	0	0	0	0	0	0	0
12/25/2024 18:39	65205	PRIN_T1	2	1	-1	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
12/25/2024 18:40	61102	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/25/2024 18:40	63305	GREE_T1	3	3	0	0.23	0.23	0	-1.68	-1.67	0	0	0	0	0	0
12/25/2024 18:40	10805	CHHI_T2	1	6	5	7.7	7.7	0	-1.15	-1.14	1	1	0	600	600	0
12/25/2024 18:40	64305	LINC_T1	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
12/25/2024 18:40	64301	LINC_T1	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
12/25/2024 18:40	66502	SMAN_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
12/25/2024 18:40	46001	BERW_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
12/25/2024 18:40	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
12/25/2024 18:40	52502	PROG_T2	0	0	0	0	0	0	-0.5	-0.51	1	1	0	900	900	0
12/25/2024 18:40	61101	BERK_T5	1	0	-1	0.1	0	-0.1	-0.91	-0.9	0	0	0	0	0	0
12/25/2024 18:40	57201	ROSS_T1	0	0	0	0	0	0	-1.34	-1.32	0	0	0	0	0	0
12/25/2024 18:40	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 18:40	66505	SMAN_T2	3	3	0	1.03	1	-0.03	0	0	0	0	0	0	0	0
12/25/2024 18:40	57203	ROSS_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
12/25/2024 18:41	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/25/2024 18:41	66505	SMAN_T2	3	3	0	1.03	1	-0.03	0	0	0	0	0	0	0	0
12/25/2024 18:41	52502	PROG_T2	0	0	0	0	0	0	-0.5	-0.51	1	1	0	900	900	0
12/25/2024 18:41	52001	LING_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
12/25/2024 18:41	57201	ROSS_T1	0	0	0	0	0	0	-1.34	-1.32	0	0	0	0	0	0
12/25/2024 18:41	66503	SMAN_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
12/25/2024 18:41	54601	SUMM_T2	3	2	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/25/2024 18:41	60701	BREC_T1	198	73	-125	0.17	0.15	-0.02	-0.47	-0.47	1	1	0	600	600	0
12/25/2024 18:42	61103	BERK_T5	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
12/25/2024 18:42	14601	SWHI_T1	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
12/25/2024 18:42	53801	MBRG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 18:42	52502	PROG_T2	0	0	0	0	0	0	-0.5	-0.51	1	1	0	900	900	0
12/25/2024 18:42	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 18:42	57205	ROSS_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
12/25/2024 18:42	61101	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/25/2024 18:42	53803	MBRG_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/25/2024 18:42	61102	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/25/2024 18:42	50201	HARR_T3	2	2	0	3.95	4.05	0.1	0	0	0	0	0	0	0	0
12/25/2024 18:42	50202	HARR_T3	5	0	-5	0.24	0	-0.24	-0.37	-0.37	0	0	0	0	0	0
12/25/2024 18:42	50103	HARR_T3	2	1	-1	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
12/25/2024 18:42	50105	HARR_T3	6	6	0	6.5	6.25	-0.25	0	0	0	0	0	0	0	0
12/25/2024 18:42	59402	RFLD_T2	0	0	0	0	0	0	-0.86	-0.88	1	1	0	450	450	0
12/25/2024 18:42	16102	BING_T2	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
12/25/2024 18:43	60701	BREC_T1	198	73	-125	0.17	0.15	-0.02	-0.94	-0.94	2	2	0	1200	1200	0
12/25/2024 18:43	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 18:43	67402	WAKE_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
12/25/2024 18:43	55002	NEWP_T1	4	5	1	0.7	0.64	-0.06	-0.2	-0.2	0	0	0	0	0	0
12/25/2024 18:43	13503	MCMI_T2	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
12/25/2024 18:43	54603	SUMM_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/25/2024 18:43	63501	HEID_TBK1-2	1	1	0	0.7	0.6	-0.1	-0.3	-0.35	1	1	0	900	900	0
12/25/2024 18:43	54601	SUMM_T2	3	2	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/25/2024 18:43	52502	PROG_T2	0	0	0	0	0	0	-0.5	-0.51	1	1	0	900	900	0
12/25/2024 18:43	57201	ROSS_T1	0	0	0	0	0	0	-1.34	-1.32	0	0	0	0	0	0
12/25/2024 18:44	41902	REED_T1	1	6	5	0.1	0.1	0	0.95	0.97	0	0	0	0	0	0
12/25/2024 18:44	41901	REED_T1	6	4	-2	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
12/25/2024 18:44	60701	BREC_T1	198	73	-125	0.17	0.15	-0.02	-0.47	-0.47	1	1	0	600	600	0
12/25/2024 18:44	44301	BEAV_T2	1	1	0	2.2	2.2	0	-1.64	-1.61	1	1	0	600	600	0
12/25/2024 18:44	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 18:45	47101	MARL_T1	5	11	6	0.34	0.43	0.09	-0.62	-0.56	0	0	0	0	0	0
12/25/2024 18:45	63801	HEMP_T1	0	0	0	0	0	0	-0.45	-0.06	0	0	0	0	0	0
12/25/2024 18:45	63804	HEMP_T1	1	1	0	6.3	5.7	-0.6	0	0	0	0	0	0	0	0
12/25/2024 18:45	60903	DONG_T2	0	0	0	0	0	0	0.45	0.53	0	0	0	0	0	0
12/25/2024 18:45	44301	BEAV_T2	1	1	0	2.2	2.5	0.3	-1.64	-1.61	1	1	0	600	600	0
12/25/2024 18:46	63302	GREE_T1	0	0	0	0	0	0	0.06	0.17	0	0	0	0	0	0
12/25/2024 18:46	10801	CHHI_T1	2	3	1	0.65	0.4	-0.25	-2.82	-2.8	4	4	0	3000	3000	0
12/25/2024 18:46	52502	PROG_T2	0	0	0	0	0	0	-1	-1.02	2	2	0	1800	1800	0
12/25/2024 18:46	57201	ROSS_T1	0	0	0	0	0	0	-1.34	-1.32	0	0	0	0	0	0
12/25/2024 18:46	41301	FISH_T1	50	62	12	0.17	0.17	0	-0.41	-0.4	0	0	0	0	0	0
12/25/2024 18:46	44901	SCOT_T2	34	23	-11	0.23	0.23	0	-0.71	-0.73	0	0	0	0	0	0
12/25/2024 18:46	44902	SCOT_T2	155	133	-22	0.14	0.13	-0.01	-0.92	-0.95	0	0	0	0	0	0
12/25/2024 18:46	63305	GREE_T1	3	4	1	0.23	0.28	0.05	0	0	0	0	0	0	0	0
12/25/2024 18:47	59402	RFLD_T2	0	0	0	0	0	0	-0.86	-0.88	1	1	0	450	450	0
12/25/2024 18:47	41902	REED_T1	4	5	1	0.23	0.33	0.1	0.95	0.97	0	0	0	0	0	0
12/25/2024 18:47	61701	ELIZ_T1	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
12/25/2024 18:47	63303	GREE_T1	0	0	0	0	0	0	-0.23	-0.21	1	1	0	600	600	0
12/25/2024 18:47	60902	DONG_T2	0	0	0	0	0	0	0.54	0.5	0	0	0	0	0	0
12/25/2024 18:47	40602	PIGR_T1	1	1	0	2.5	2.6	0.1	0	0	0	0	0	0	0	0
12/25/2024 18:47	51204	MTON_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
12/25/2024 18:47	63305	GREE_T1	3	4	1	0.23	0.28	0.05	0	0	0	0	0	0	0	0
12/25/2024 18:47	61103	BERK_T5	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
12/25/2024 18:47	61703	ELIZ_T1	0	1	1	0	0	0	-1.7	-1.84	1	1	0	900	900	0
12/25/2024 18:47	41901	REED_T1	3	4	1	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
12/25/2024 18:47	61102	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/25/2024 18:48	64204	KINZ_T1	1	1	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
12/25/2024 18:48	60701	BREC_T1	73	1	-72	0.15	0.1	-0.05	-0.47	-0.47	1	1	0	600	600	0
12/25/2024 18:48	11104	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 18:48	13702	SCHN_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
12/25/2024 18:48	67401	WAKE_T2	0	0	0	0	0	0	-0.85	-0.9	0	0	0	0	0	0
12/25/2024 18:48	64305	LINC_T1	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
12/25/2024 18:48	64201	KINZ_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/25/2024 18:48	64203	KINZ_T1	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
12/25/2024 18:48	67402	WAKE_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
12/25/2024 18:48	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 18:49	64305	LINC_T1	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
12/25/2024 18:49	43302	WATS_T2	4	4	0	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
12/25/2024 18:49	44301	BEAV_T2	1	1	0	2.2	2.5	0.3	0	0	0	0	0	0	0	0
12/25/2024 18:49	53902	HALI_T2	1	1	0	5.3	5	-0.3	0	0	0	0	0	0	0	0
12/25/2024 18:49	55002	NEWP_T1	5	4	-1	0.58	0.75	0.17	-0.2	-0.2	0	0	0	0	0	0
12/25/2024 18:49	44302	BEAV_T2	0	0	0	0	0	0	0.26	0.22	0	0	0	0	0	0
12/25/2024 18:49	53901	HALI_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
12/25/2024 18:49	43304	WATS_T2	8	6	-2	0.18	0	-0.18	0	0	0	0	0	0	0	0
12/25/2024 18:49	53903	HALI_T2	2	2	0	1	0.85	-0.15	-0.12	-0.09	0	0	0	0	0	0
12/25/2024 18:50	11103	EGYP_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
12/25/2024 18:50	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 18:50	13503	MCMI_T2	0	1	1	0	0	0	0.38	0.4	0	0	0	0	0	0
12/25/2024 18:50	60701	BREC_T1	73	1	-72	0.15	0.1	-0.05	-0.47	-0.47	1	1	0	600	600	0
12/25/2024 18:52	13704	SCHN_T2	0	0	0	0	0	0	-0.9	-0.87	0	0	0	0	0	0
12/25/2024 18:52	63804	HEMP_T1	1	1	0	6.3	5.7	-0.6	0	0	0	0	0	0	0	0
12/25/2024 18:52	61703	ELIZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 18:52	61701	ELIZ_T1	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
12/25/2024 18:52	63801	HEMP_T1	0	0	0	0	0	0	-0.06	-0.4	0	0	0	0	0	0
12/25/2024 18:53	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 18:53	60104	COCA_T2	3	3	0	0.27	0.13	-0.14	0	0	0	0	0	0	0	0
12/25/2024 18:54	58401	MORO_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/25/2024 18:54	58402	MORO_T1	0	0	0	0	0	0	-0.76	-0.78	2	2	0	1500	1500	0
12/25/2024 18:56	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/25/2024 18:56	52403	GRPA_T2	0	0	0	0	0	0	-0.12	-0.15	0	0	0	0	0	0
12/25/2024 18:56	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 19:03	65207	PRIN_T4	3	4	1	1.47	1.55	0.08	0	0	1	1	0	1200	1200	0
12/25/2024 19:03	47101	MARL_T1	4	14	10	0.45	0.36	-0.09	-0.56	-0.59	0	0	0	0	0	0
12/25/2024 19:03	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/25/2024 19:05	64702	LITI_T2	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
12/25/2024 19:24	54501	ENOL_T2	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
12/25/2024 19:24	54505	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/25/2024 23:29	60701	BREC_T1	23	54	31	0.13	0.15	0.02	-0.52	-0.53	1	1	0	600	600	0
12/26/2024 8:06	13704	SCHN_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
12/26/2024 8:07	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 8:33	26704	HEML_T2	0	0	0	0	0	0	-0.75	-0.71	1	1	0	1200	1200	0
12/26/2024 8:49	13503	MCMI_T2	1	1	0	0.5	0.3	-0.2	0.52	0.5	0	0	0	0	0	0
12/26/2024 9:00	48302	ORWI_T2	2	2	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
12/26/2024 9:00	15601	NSTR_T2	32	36	4	0.34	0.36	0.02	0	0	0	0	0	0	0	0
12/26/2024 9:00	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.15	0.19	0	0	0	0	0	0
12/26/2024 9:00	48303	ORWI_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
12/26/2024 9:00	40505	CRES_T1	0	1	1	0	2.9	2.9	0.44	0.47	0	0	0	0	0	0
12/26/2024 9:00	57205	ROSS_T1	0	0	0	0	0	0	-0.1	-0.07	0	0	0	0	0	0
12/26/2024 9:00	15603	NSTR_T2	1	0	-1	1.1	0	-1.1	-0.89	-0.88	0	0	0	0	0	0
12/26/2024 9:05	58302	NOTT_T1	0	0	0	0	0	0	-1.32	-1.36	2	2	0	2100	2100	0
12/26/2024 9:08	13704	SCHN_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
12/26/2024 9:10	29402	BELT_T1	1	1	0	5	4.8	-0.2	0	0	0	0	0	0	0	0
12/26/2024 9:14	11103	EGYP_T1	0	0	0	0	0	0	-0.81	-0.75	0	0	0	0	0	0
12/26/2024 9:14	11104	EGYP_T1	1	15	14	1.2	0.55	-0.65	0	0	0	0	0	0	0	0
12/26/2024 9:14	10801	CHHI_T1	2	1	-1	0.25	0	-0.25	-1.73	-1.82	3	3	0	2100	2100	0
12/26/2024 9:15	26704	HEML_T2	0	0	0	0	0	0	-0.73	-0.72	1	1	0	1200	1200	0
12/26/2024 9:17	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 9:17	52404	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 9:17	52402	GRPA_T2	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
12/26/2024 9:17	52403	GRPA_T2	0	1	1	0	0.1	0.1	-0.05	-0.05	0	0	0	0	0	0
12/26/2024 9:20	13503	MCMI_T2	1	0	-1	0.4	0	-0.4	0.45	0.46	0	0	0	0	0	0
12/26/2024 9:20	57201	ROSS_T1	0	0	0	0	0	0	-1.23	-1.24	0	0	0	0	0	0
12/26/2024 9:22	57201	ROSS_T1	0	0	0	0	0	0	-1.24	-1.22	0	0	0	0	0	0
12/26/2024 9:23	57201	ROSS_T1	0	0	0	0	0	0	-2.48	-2.43	0	0	0	0	0	0
12/26/2024 9:31	13503	MCMI_T2	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
12/26/2024 9:35	55002	NEWP_T1	2	4	2	0.25	0.15	-0.1	-0.16	-0.16	0	0	0	0	0	0
12/26/2024 9:36	55002	NEWP_T1	2	4	2	0.25	0.15	-0.1	-0.16	-0.16	0	0	0	0	0	0
12/26/2024 9:36	13702	SCHN_T1	0	0	0	0	0	0	-0.49	-0.55	0	0	0	0	0	0
12/26/2024 9:38	13303	ORVI_T1	0	0	0	0	0	0	0.85	0.93	0	0	0	0	0	0
12/26/2024 9:39	29402	BELT_T1	1	2	1	4.7	3.1	-1.6	0	0	0	0	0	0	0	0
12/26/2024 9:42	60903	DONG_T2	0	0	0	0	0	0	0.03	0.08	1	1	0	600	600	0
12/26/2024 9:42	10805	CHHI_T2	7	7	0	1.66	1.38	-0.28	-2.28	-0.98	2	1	-1	1800	600	-1200
12/26/2024 9:44	52403	GRPA_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
12/26/2024 9:44	10805	CHHI_T2	7	7	0	1.66	1.38	-0.28	-2.28	-0.98	2	1	-1	1800	600	-1200
12/26/2024 9:44	52402	GRPA_T2	0	3	3	0	0.57	0.57	-0.72	-0.7	0	0	0	0	0	0
12/26/2024 9:44	14204	EALL_T2	1	1	0	0.2	0.4	0.2	0.18	0.23	0	0	0	0	0	0
12/26/2024 9:44	60903	DONG_T2	0	0	0	0	0	0	0.03	0.08	1	1	0	600	600	0
12/26/2024 9:44	52404	GRPA_T2	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
12/26/2024 9:44	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 9:45	53501	EVIL_T2	1	2	1	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
12/26/2024 9:45	53502	EVIL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
12/26/2024 9:46	52403	GRPA_T2	1	5	4	0.1	0.24	0.14	0	0	0	0	0	0	0	0
12/26/2024 9:46	54201	PENN_T1	7	9	2	0.66	0.64	-0.02	0.84	0.88	0	0	0	0	0	0
12/26/2024 9:46	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/26/2024 9:46	52402	GRPA_T2	3	3	0	0.57	0.43	-0.14	-0.72	-0.7	0	0	0	0	0	0
12/26/2024 9:46	54203	PENN_T1	18	18	0	1.39	1.57	0.18	0	0	0	0	0	0	0	0
12/26/2024 9:47	54203	PENN_T1	18	18	0	1.39	1.57	0.18	-0.11	-0.13	0	0	0	0	0	0
12/26/2024 9:47	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 9:47	54201	PENN_T1	7	9	2	0.66	0.64	-0.02	0	0	0	0	0	0	0	0
12/26/2024 9:50	58401	MORO_T1	0	0	0	0	0	0	-4.92	-5	4	2	-2	2400	1200	-1200
12/26/2024 9:50	64101	REFR_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
12/26/2024 9:50	51204	MTON_T2	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
12/26/2024 9:52	14605	SWHI_T1	0	0	0	0	0	0	1.25	1.19	1	1	0	1200	1200	0
12/26/2024 9:52	14602	SWHI_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/26/2024 9:53	54601	SUMM_T2	3	4	1	0.17	0.35	0.18	-1.71	-1.72	2	2	0	2100	2100	0
12/26/2024 9:54	66502	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 9:58	16102	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 9:58	16103	BING_T2	11	1	-10	0.17	0.1	-0.07	-2	-0.69	1	1	0	900	900	0
12/26/2024 10:04	51202	MTON_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
12/26/2024 10:04	65206	PRIN_T4	3	1	-2	2.23	0	-2.23	0	0	0	0	0	0	0	0
12/26/2024 10:04	65207	PRIN_T4	3	4	1	2.47	3.53	1.06	0	0	0	0	0	0	0	0
12/26/2024 10:04	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 10:05	58202	NEWV_T1	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
12/26/2024 10:06	65205	PRIN_T1	2	1	-1	1.55	1.6	0.05	0	0	0	0	0	0	0	0
12/26/2024 10:06	65202	PRIN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/26/2024 10:09	42503	ALTA_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
12/26/2024 10:09	41901	REED_T1	9	9	0	0.84	0.8	-0.04	0	0	0	0	0	0	0	0
12/26/2024 10:09	41903	REED_T1	0	0	0	0	0	0	-0.04	-0.11	1	1	0	1200	1200	0
12/26/2024 10:09	54601	SUMM_T2	4	4	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
12/26/2024 10:09	54602	SUMM_T2	0	0	0	0	0	0	-2.85	-2.82	1	1	0	600	600	0
12/26/2024 10:10	54602	SUMM_T2	0	0	0	0	0	0	-2.85	-2.82	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/26/2024 10:10	15102	UPHA_T1	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
12/26/2024 10:10	15101	UPHA_T1	0	0	0	0	0	0	0.12	0.82	0	0	0	0	0	0
12/26/2024 10:10	54601	SUMM_T2	4	4	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
12/26/2024 10:15	47203	FAXO_T2	1	1	0	0.4	0.1	-0.3	-1.67	-1.68	1	1	0	1200	1200	0
12/26/2024 10:18	63501	HEID_TBK1-2	1	1	0	0.1	0.1	0	-0.31	-0.28	1	1	0	900	900	0
12/26/2024 10:20	14401	SSLA_T1	26	0	-26	0.15	0	-0.15	-1.5	-1.54	2	2	0	1800	1800	0
12/26/2024 10:22	14401	SSLA_T1	26	0	-26	0.15	0	-0.15	0	0	0	0	0	0	0	0
12/26/2024 10:22	14404	SSLA_T1	0	0	0	0	0	0	0.16	0.2	0	0	0	0	0	0
12/26/2024 10:34	12401	MILF_T1	1	2	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
12/26/2024 10:34	12402	MILF_T1	5	6	1	0.46	0.45	-0.01	-1.2	-1.2	0	0	0	0	0	0
12/26/2024 10:35	26401	INOR_T1	13	14	1	1.07	2.38	1.31	0	0	0	0	0	0	0	0
12/26/2024 10:35	26402	INOR_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
12/26/2024 10:36	12401	MILF_T1	1	2	1	0.2	0.6	0.4	-0.17	-0.18	0	0	0	0	0	0
12/26/2024 10:36	12402	MILF_T1	5	6	1	0.46	0.45	-0.01	0	0	0	0	0	0	0	0
12/26/2024 10:39	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 10:42	10801	CHHI_T1	1	1	0	1.7	0.2	-1.5	-1.24	-1.28	2	2	0	1500	1500	0
12/26/2024 10:42	42701	AUGU_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/26/2024 10:43	42701	AUGU_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/26/2024 10:48	63501	HEID_TBK1-2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/26/2024 10:51	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 10:56	11302	EMMA_T1	22	36	14	0.22	0.26	0.04	0	0	0	0	0	0	0	0
12/26/2024 10:56	11303	EMMA_T1	0	1	1	0	0.1	0.1	-1.17	-1.17	0	0	0	0	0	0
12/26/2024 10:58	11303	EMMA_T1	0	1	1	0	0.1	0.1	-1.17	-1.17	0	0	0	0	0	0
12/26/2024 10:58	11302	EMMA_T1	22	36	14	0.22	0.26	0.04	0	0	0	0	0	0	0	0
12/26/2024 11:01	52404	GRPA_T2	2	1	-1	0.65	0	-0.65	0	0	0	0	0	0	0	0
12/26/2024 11:01	52403	GRPA_T2	16	8	-8	0.43	0.61	0.18	-0.08	-0.1	0	0	0	0	0	0
12/26/2024 11:01	52402	GRPA_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
12/26/2024 11:01	61305	EARL_T1	0	0	0	0	0	0	-0.54	-0.44	2	2	0	1500	1500	0
12/26/2024 11:02	23401	HONE_T2	11	24	13	0.71	0.73	0.02	0.18	0.29	0	0	0	0	0	0
12/26/2024 11:03	20603	GRWO_T2	16	5	-11	0.29	0	-0.29	0	0	0	0	0	0	0	0
12/26/2024 11:03	20601	GRWO_T2	59	90	31	0.74	0.7	-0.04	0.27	0.32	0	0	0	0	0	0
12/26/2024 11:08	52402	GRPA_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
12/26/2024 11:08	52404	GRPA_T2	2	1	-1	0.65	0	-0.65	0	0	0	0	0	0	0	0
12/26/2024 11:08	66503	SMAN_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
12/26/2024 11:08	52403	GRPA_T2	16	8	-8	0.43	0.61	0.18	-0.1	-0.07	0	0	0	0	0	0
12/26/2024 11:12	53502	EVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/26/2024 11:12	53501	EVIL_T2	1	2	1	0.2	0.85	0.65	-0.37	-0.38	0	0	0	0	0	0
12/26/2024 11:23	44901	SCOT_T2	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
12/26/2024 11:27	45501	DERR_T2	2	2	0	0.7	0	-0.7	0.45	0.42	2	2	0	1800	1800	0
12/26/2024 11:28	45501	DERR_T2	2	2	0	0.7	0	-0.7	0.45	0.42	2	2	0	1800	1800	0
12/26/2024 11:32	29402	BELT_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
12/26/2024 11:32	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/26/2024 11:39	42802	SELI_T1	0	0	0	0	0	0	-1.63	-1.74	0	0	0	0	0	0
12/26/2024 11:40	60201	ATGL_T2	0	0	0	0	0	0	-0.12	-0.16	0	0	0	0	0	0
12/26/2024 11:42	62105	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 11:42	62103	ELAN_T1	1	1	0	0	0.3	0.3	0	0	0	0	0	0	0	0
12/26/2024 11:42	62101	ELAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/26/2024 11:42	62104	ELAN_T1	0	0	0	0	0	0	0.63	0.65	2	2	0	1500	1500	0
12/26/2024 11:43	62103	ELAN_T1	1	1	0	0	0.3	0.3	0	0	0	0	0	0	0	0
12/26/2024 11:43	62106	ELAN_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
12/26/2024 11:43	62105	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 11:43	62101	ELAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/26/2024 11:43	62104	ELAN_T1	0	0	0	0	0	0	0.63	0.65	2	2	0	1500	1500	0
12/26/2024 11:44	62105	ELAN_T1	0	2	2	0	0.1	0.1	0.53	0.53	0	0	0	0	0	0
12/26/2024 11:44	62103	ELAN_T1	1	1	0	0	0.3	0.3	0	0	0	0	0	0	0	0
12/26/2024 11:44	62101	ELAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/26/2024 11:45	62105	ELAN_T1	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
12/26/2024 11:45	62103	ELAN_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
12/26/2024 11:45	62104	ELAN_T1	0	0	0	0	0	0	0.63	0.65	2	2	0	1500	1500	0
12/26/2024 11:45	62101	ELAN_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
12/26/2024 11:45	62106	ELAN_T1	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
12/26/2024 11:46	17402	FOHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 11:46	17401	FOHI_T1	0	0	0	0	0	0	-2.09	-2.1	0	0	0	0	0	0
12/26/2024 11:48	62106	ELAN_T1	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
12/26/2024 11:48	62101	ELAN_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
12/26/2024 11:48	62103	ELAN_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
12/26/2024 11:48	62105	ELAN_T1	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
12/26/2024 11:58	44801	EDAN_T2	0	2	2	0	1.3	1.3	-0.25	-0.25	0	0	0	0	0	0
12/26/2024 12:01	44801	EDAN_T2	2	1	-1	0.9	0	-0.9	-0.25	-0.25	0	0	0	0	0	0
12/26/2024 12:05	41901	REED_T1	9	10	1	0.7	0.92	0.22	0	0	0	0	0	0	0	0
12/26/2024 12:05	41902	REED_T1	1	3	2	0.2	0.8	0.6	0.66	0.64	0	0	0	0	0	0
12/26/2024 12:06	41902	REED_T1	1	3	2	0.2	0.8	0.6	0.33	0.32	0	0	0	0	0	0
12/26/2024 12:06	41901	REED_T1	9	10	1	0.7	0.92	0.22	0	0	0	0	0	0	0	0
12/26/2024 12:06	66505	SMAN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/26/2024 12:06	66502	SMAN_T2	0	0	0	0	0	0	0.16	0.12	0	0	0	0	0	0
12/26/2024 12:07	24201	PROV_T3	1	10	9	6.2	0.74	-5.46	-1.33	-1.33	1	1	0	1200	1200	0
12/26/2024 12:07	24204	PROV_T3	1	10	9	5.7	0.66	-5.04	0	0	0	0	0	0	0	0
12/26/2024 12:07	24205	PROV_T3	9	55	46	0.43	0.26	-0.17	0	0	0	0	0	0	0	0
12/26/2024 12:07	67401	WAKE_T2	18	21	3	0.18	0.2	0.02	-1.06	-1.04	0	0	0	0	0	0
12/26/2024 12:07	66505	SMAN_T2	1	1	0	0.2	0.4	0.2	0	-0.13	1	1	0	900	900	0
12/26/2024 12:08	66505	SMAN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/26/2024 12:08	66502	SMAN_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
12/26/2024 12:09	67401	WAKE_T2	18	21	3	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/26/2024 12:09	67402	WAKE_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
12/26/2024 12:10	66505	SMAN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/26/2024 12:10	65802	RTWN_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
12/26/2024 12:10	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 12:12	67401	WAKE_T2	18	21	3	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/26/2024 12:12	67402	WAKE_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
12/26/2024 12:16	52001	LING_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
12/26/2024 12:19	65303	NBRI_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
12/26/2024 12:20	66902	SHIL_T2	0	0	0	0	0	0	-0.82	-0.93	0	0	0	0	0	0
12/26/2024 12:20	52503	PROG_T2	0	0	0	0	0	0	-0.41	-0.38	1	1	0	900	900	0
12/26/2024 12:21	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 12:21	16201	POFA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 12:22	66505	SMAN_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
12/26/2024 12:22	48302	ORWI_T2	2	2	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
12/26/2024 12:22	48303	ORWI_T2	0	0	0	0	0	0	0.53	0.67	0	0	0	0	0	0
12/26/2024 12:22	66502	SMAN_T2	0	0	0	0	0	0	0.12	0.22	0	0	0	0	0	0
12/26/2024 12:22	52503	PROG_T2	0	0	0	0	0	0	-0.38	-0.49	1	1	0	900	900	0
12/26/2024 12:24	66502	SMAN_T2	0	0	0	0	0	0	0.36	0.66	0	0	0	0	0	0
12/26/2024 12:24	58202	NEWV_T1	0	0	0	0	0	0	-0.36	-0.17	0	0	0	0	0	0
12/26/2024 12:24	66505	SMAN_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
12/26/2024 12:25	66505	SMAN_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
12/26/2024 12:25	66502	SMAN_T2	0	0	0	0	0	0	0.36	0.66	0	0	0	0	0	0
12/26/2024 12:25	66902	SHIL_T2	0	0	0	0	0	0	-1.85	-1.81	0	0	0	0	0	0
12/26/2024 12:27	59002	MIFF_T1	5	1	-4	0.24	0.1	-0.14	0	0	0	0	0	0	0	0
12/26/2024 12:27	59003	MIFF_T1	1	0	-1	0.5	0	-0.5	-0.51	-0.35	0	0	0	0	0	0
12/26/2024 12:28	11303	EMMA_T1	2	5	3	0.4	0.34	-0.06	0	0	0	0	0	0	0	0
12/26/2024 12:28	11302	EMMA_T1	9	24	15	0.21	0.28	0.07	0	0	0	0	0	0	0	0
12/26/2024 12:29	63501	HEID_TBK1-2	35	37	2	0.29	0.32	0.03	-0.27	-0.32	1	1	0	900	900	0
12/26/2024 12:29	61304	EARL_T1	0	0	0	0	0	0	-0.84	-0.82	1	1	0	600	600	0
12/26/2024 12:29	40801	EXCH_T2	3	4	1	0.27	0.18	-0.09	-0.42	-0.39	1	1	0	1200	1200	0
12/26/2024 12:30	63501	HEID_TBK1-2	35	34	-1	0.33	0.26	-0.07	-0.54	-0.63	2	2	0	1800	1800	0
12/26/2024 12:31	40801	EXCH_T2	3	3	0	0.2	0.17	-0.03	-0.42	-0.39	1	1	0	1200	1200	0
12/26/2024 12:32	63602	LETO_T1	1	0	-1	7.7	0	-7.7	0	0	0	0	0	0	0	0
12/26/2024 12:32	63601	LETO_T1	6	6	0	0.93	0.93	0	0.67	0.61	0	0	0	0	0	0
12/26/2024 12:33	62105	ELAN_T1	61	62	1	0.14	0.11	-0.03	0	0	0	0	0	0	0	0
12/26/2024 12:33	62104	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/26/2024 12:33	62101	ELAN_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/26/2024 12:33	40801	EXCH_T2	3	3	0	0.2	0.17	-0.03	-0.42	-0.39	1	1	0	1200	1200	0
12/26/2024 12:33	62103	ELAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/26/2024 12:33	62106	ELAN_T1	9	4	-5	0.13	0.13	0	0.01	0	0	0	0	0	0	0
12/26/2024 12:34	63803	HEMP_T1	0	0	0	0	0	0	0.23	0.18	0	0	0	0	0	0
12/26/2024 12:34	64802	MONE_T2	0	4	4	0	0.1	0.1	0.2	0.18	0	0	0	0	0	0
12/26/2024 12:34	63804	HEMP_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
12/26/2024 12:35	66903	SHIL_T2	0	0	0	0	0	0	-1.15	-1.14	0	0	0	0	0	0
12/26/2024 12:36	63601	LETO_T1	6	6	0	0.93	0.93	0	0.67	0.61	0	0	0	0	0	0
12/26/2024 12:36	63602	LETO_T1	1	0	-1	7.7	0	-7.7	0	0	0	0	0	0	0	0
12/26/2024 12:37	24202	PROV_T4	0	0	0	0	0	0	-0.76	-0.77	1	1	0	1200	1200	0
12/26/2024 12:38	14401	SSLA_T1	4	2	-2	0.13	0.15	0.02	0	0	0	0	0	0	0	0
12/26/2024 12:38	14404	SSLA_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
12/26/2024 12:38	66903	SHIL_T2	0	0	0	0	0	0	-1.14	-1.15	0	0	0	0	0	0
12/26/2024 12:39	66903	SHIL_T2	0	0	0	0	0	0	-1.14	-1.15	0	0	0	0	0	0
12/26/2024 12:40	15103	UPHA_T2	1	2	1	0.8	0.45	-0.35	0.38	0.42	0	0	0	0	0	0
12/26/2024 12:40	66903	SHIL_T2	0	0	0	0	0	0	-1.14	-1.15	0	0	0	0	0	0
12/26/2024 12:42	17401	FOHI_T1	0	0	0	0	0	0	-2.12	-2.13	0	0	0	0	0	0
12/26/2024 12:46	11302	EMMA_T1	19	12	-7	0.18	0.23	0.05	0	0	0	0	0	0	0	0
12/26/2024 12:46	11303	EMMA_T1	5	4	-1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
12/26/2024 12:46	11301	EMMA_T1	0	0	0	0	0	0	-0.04	-0.07	0	0	0	0	0	0
12/26/2024 12:57	61701	ELIZ_T1	1	1	0	6	5.7	-0.3	0.01	0.06	0	0	0	0	0	0
12/26/2024 13:03	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	-1.64	-0.45	2	0	-2	1200	0	-1200
12/26/2024 13:03	55002	NEWP_T1	4	1	-3	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
12/26/2024 13:07	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
12/26/2024 13:18	64902	MILL_T2	0	0	0	0	0	0	-0.65	-0.66	1	1	0	900	900	0
12/26/2024 13:19	23404	HONE_T1	2	33	31	0.1	0.12	0.02	0	0	0	0	0	0	0	0
12/26/2024 13:19	23403	HONE_T1	10	14	4	0.13	0.16	0.03	-0.68	-0.68	0	0	0	0	0	0
12/26/2024 13:23	41901	REED_T1	9	9	0	0.9	0.99	0.09	0	0	0	0	0	0	0	0
12/26/2024 13:23	41903	REED_T1	0	0	0	0	0	0	-0.17	-0.17	1	1	0	1200	1200	0
12/26/2024 13:24	66901	SHIL_T2	0	0	0	0	0	0	-0.21	-0.3	0	0	0	0	0	0
12/26/2024 13:26	60701	BREC_T1	0	0	0	0	0	0	-0.3	-0.31	2	2	0	1200	1200	0
12/26/2024 13:28	60701	BREC_T1	0	0	0	0	0	0	-0.3	-0.31	2	2	0	1200	1200	0
12/26/2024 13:29	54601	SUMM_T2	6	9	3	0.5	0.6	0.1	0	0	0	0	0	0	0	0
12/26/2024 13:29	54603	SUMM_T2	0	2	2	0	0.2	0.2	-0.28	-0.32	1	1	0	900	900	0
12/26/2024 13:29	13503	MCMI_T2	1	1	0	0.1	0.2	0.1	0.27	0.24	0	0	0	0	0	0
12/26/2024 13:30	54603	SUMM_T2	2	2	0	0.1	0.2	0.1	-0.28	-0.32	1	1	0	900	900	0
12/26/2024 13:30	54601	SUMM_T2	9	10	1	0.41	0.58	0.17	0	0	0	0	0	0	0	0
12/26/2024 13:30	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 13:31	60902	DONG_T2	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
12/26/2024 13:38	15104	UPHA_T2	0	0	0	0	0	0	0.77	0.73	0	0	0	0	0	0
12/26/2024 13:38	15103	UPHA_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/26/2024 13:39	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 13:40	16302	ALPA_T2	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/26/2024 13:42	54603	SUMM_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/26/2024 13:42	64204	KINZ_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
12/26/2024 13:42	64203	KINZ_T1	0	0	0	0	0	0	0.02	0.06	1	1	0	600	600	0
12/26/2024 13:42	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 13:42	54502	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/26/2024 13:42	54601	SUMM_T2	9	10	1	0.41	0.58	0.17	-1.75	-1.81	2	2	0	2100	2100	0
12/26/2024 13:42	54501	ENOL_T2	0	3	3	0	0.1	0.1	-0.5	-0.48	1	1	0	600	600	0
12/26/2024 13:42	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 13:42	54504	ENOL_T2	0	0	0	0	0	0	-0.99	-0.98	1	1	0	600	600	0
12/26/2024 13:43	54601	SUMM_T2	9	10	1	0.41	0.58	0.17	-1.75	-1.81	2	2	0	2100	2100	0
12/26/2024 13:43	54603	SUMM_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/26/2024 13:43	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 13:43	54602	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 13:44	62105	ELAN_T1	58	92	34	0.11	0.13	0.02	0	0	0	0	0	0	0	0
12/26/2024 13:44	62101	ELAN_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/26/2024 13:44	62103	ELAN_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/26/2024 13:44	62106	ELAN_T1	10	12	2	0.12	0.21	0.09	0	0	0	0	0	0	0	0
12/26/2024 13:44	62104	ELAN_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
12/26/2024 13:45	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/26/2024 13:45	54501	ENOL_T2	3	2	-1	0.1	0.1	0	-0.5	-0.48	1	1	0	600	600	0
12/26/2024 13:45	54505	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
12/26/2024 13:46	62101	ELAN_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/26/2024 13:46	62106	ELAN_T1	12	12	0	0.18	0.21	0.03	0	0	0	0	0	0	0	0
12/26/2024 13:46	62105	ELAN_T1	78	90	12	0.13	0.12	-0.01	0.54	0.52	0	0	0	0	0	0
12/26/2024 13:46	62104	ELAN_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
12/26/2024 13:46	62103	ELAN_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/26/2024 13:47	54601	SUMM_T2	7	12	5	0.69	0.53	-0.16	-1.75	-1.81	2	2	0	2100	2100	0
12/26/2024 13:47	54602	SUMM_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
12/26/2024 13:47	54603	SUMM_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/26/2024 13:49	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 13:51	22602	KIMB_T1	0	0	0	0	0	0	0.16	0.22	0	0	0	0	0	0
12/26/2024 13:54	22602	KIMB_T1	0	0	0	0	0	0	0.16	0.22	0	0	0	0	0	0
12/26/2024 14:00	11301	EMMA_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
12/26/2024 14:00	11303	EMMA_T1	3	1	-2	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
12/26/2024 14:01	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/26/2024 14:01	54505	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
12/26/2024 14:01	54501	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/26/2024 14:01	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-1	1	1	0	600	600	0
12/26/2024 14:02	12403	MILF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/26/2024 14:02	12401	MILF_T1	1	2	1	0.2	0.35	0.15	-0.24	-0.24	0	0	0	0	0	0
12/26/2024 14:02	12402	MILF_T1	29	28	-1	0.27	0.29	0.02	0	0	0	0	0	0	0	0
12/26/2024 14:04	20602	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 14:04	65003	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 14:04	20601	GRWO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/26/2024 14:04	20603	GRWO_T2	18	0	-18	0.83	0	-0.83	-1.85	-1.85	2	2	0	2100	2100	0
12/26/2024 14:05	65003	NEFF_T2	0	0	0	0	0	0	-1.35	-1.26	2	2	0	1800	1800	0
12/26/2024 14:06	12402	MILF_T1	29	28	-1	0.27	0.29	0.02	0	0	0	0	0	0	0	0
12/26/2024 14:06	12403	MILF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/26/2024 14:06	12401	MILF_T1	1	2	1	0.2	0.35	0.15	-0.24	-0.26	0	0	0	0	0	0
12/26/2024 14:07	65005	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 14:07	65001	NEFF_T2	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
12/26/2024 14:08	65004	NEFF_T2	0	0	0	0	0	0	-2.16	-0.8	2	0	-2	1200	0	-1200
12/26/2024 14:10	43801	SWIL_T1	2	2	0	3.2	3.2	0	0	0	0	0	0	0	0	0
12/26/2024 14:10	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 14:12	60701	BREC_T1	1	0	-1	0.4	0	-0.4	-0.25	-0.23	2	2	0	1200	1200	0
12/26/2024 14:13	60701	BREC_T1	1	0	-1	0.4	0	-0.4	-0.25	-0.23	2	2	0	1200	1200	0
12/26/2024 14:14	64203	KINZ_T1	0	0	0	0	0	0	0.01	0.04	1	1	0	600	600	0
12/26/2024 14:14	64204	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/26/2024 14:14	11507	FREE_T2	0	1	1	0	0	0	0.49	0.54	0	0	0	0	0	0
12/26/2024 14:17	63804	HEMP_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
12/26/2024 14:17	64703	LITI_T2	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/26/2024 14:17	64702	LITI_T2	0	0	0	0	0	0	-0.87	-0.92	0	0	0	0	0	0
12/26/2024 14:17	63802	HEMP_T1	0	0	0	0	0	0	0.27	0.22	0	0	0	0	0	0
12/26/2024 14:20	48303	ORWI_T2	1	14	13	0.1	0.14	0.04	0.58	0.55	0	0	0	0	0	0
12/26/2024 14:20	48302	ORWI_T2	8	47	39	0.55	0.22	-0.33	0	0	0	0	0	0	0	0
12/26/2024 14:22	65206	PRIN_T4	10	9	-1	0.1	0.11	0.01	0	0	0	0	0	0	0	0
12/26/2024 14:22	65207	PRIN_T4	8	7	-1	1.49	0.75	-0.74	0	0	1	1	0	1200	1200	0
12/26/2024 14:22	64802	MONE_T2	18	18	0	0.12	0.13	0.01	0.16	0.15	0	0	0	0	0	0
12/26/2024 14:22	64801	MONE_T2	5	3	-2	0.16	0.2	0.04	0	0	0	0	0	0	0	0
12/26/2024 14:22	55105	WERT_T1	0	0	0	0	0	0	-0.47	-0.48	1	1	0	900	900	0
12/26/2024 14:22	55103	WERT_T1	1	1	0	4.1	3.6	-0.5	0	0	0	0	0	0	0	0
12/26/2024 14:24	42501	ALTA_T2	0	12	12	0	0.13	0.13	0.05	0.07	1	1	0	600	600	0
12/26/2024 14:24	42504	ALTA_T2	2	3	1	0.3	0.37	0.07	0	0	0	0	0	0	0	0
12/26/2024 14:24	42503	ALTA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/26/2024 14:28	67402	WAKE_T2	0	0	0	0	0	0	0.32	0.35	0	0	0	0	0	0
12/26/2024 14:28	67401	WAKE_T2	30	33	3	0.24	0.24	0	0	0	0	0	0	0	0	0
12/26/2024 14:29	54601	SUMM_T2	9	9	0	0.52	0.47	-0.05	0	0	0	0	0	0	0	0
12/26/2024 14:29	54603	SUMM_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/26/2024 14:29	54602	SUMM_T2	2	6	4	0.2	0.1	-0.1	-2.42	-2.41	1	1	0	600	600	0
12/26/2024 14:30	54603	SUMM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/26/2024 14:30	54602	SUMM_T2	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/26/2024 14:30	54601	SUMM_T2	9	3	-6	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
12/26/2024 14:33	45802	HEGI_T2	14	10	-4	0.61	0.8	0.19	0	0	0	0	0	0	0	0
12/26/2024 14:34	14704	TREX_T1	1	1	0	8.1	7.9	-0.2	0	0	0	0	0	0	0	0
12/26/2024 14:34	13704	SCHN_T2	0	0	0	0	0	0	-0.36	-0.33	0	0	0	0	0	0
12/26/2024 14:34	14705	TREX_T1	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
12/26/2024 14:35	57203	ROSS_T1	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
12/26/2024 14:35	57201	ROSS_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 14:36	13905	SEID_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	1200	1200	0
12/26/2024 14:36	13904	SEID_T1	26	12	-14	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
12/26/2024 14:36	13902	SEID_T1	5	7	2	0.8	0.9	0.1	0	0	0	0	0	0	0	0
12/26/2024 14:40	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0.53	0.54	0	0	0	0	0	0
12/26/2024 14:48	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 14:48	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 14:48	62101	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/26/2024 14:48	62102	ELAN_T1	0	0	0	0	0	0	0.92	0.71	0	0	0	0	0	0
12/26/2024 14:53	41902	REED_T1	12	23	11	0.54	0.6	0.06	1.27	1.2	0	0	0	0	0	0
12/26/2024 14:53	41901	REED_T1	3	6	3	0.17	0.22	0.05	0	0	0	0	0	0	0	0
12/26/2024 14:53	60301	TWVA_T2	0	0	0	0	0	0	-3.23	-3.2	2	2	0	1800	1800	0
12/26/2024 14:54	41902	REED_T1	12	23	11	0.54	0.6	0.06	1.27	1.2	0	0	0	0	0	0
12/26/2024 14:54	41901	REED_T1	3	6	3	0.17	0.22	0.05	0	0	0	0	0	0	0	0
12/26/2024 14:58	64702	LITI_T2	0	0	0	0	0	0	-0.94	-0.92	0	0	0	0	0	0
12/26/2024 15:00	13701	SCHN_T2	0	0	0	0	0	0	-0.01	-0.02	1	1	0	600	600	0
12/26/2024 15:03	63804	HEMP_T1	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
12/26/2024 15:03	63803	HEMP_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
12/26/2024 15:08	21705	SUBU_T1	2	2	0	3.15	2.8	-0.35	0	0	0	0	0	0	0	0
12/26/2024 15:08	21702	SUBU_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 15:08	21701	SUBU_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
12/26/2024 15:08	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 15:14	11203	ELHE_T1	0	0	0	0	0	0	0.82	0.89	0	0	0	0	0	0
12/26/2024 15:20	48301	ORWI_T1	7	9	2	1.69	1.37	-0.32	0.44	0.43	0	0	0	0	0	0
12/26/2024 15:22	66504	SMAN_T2	0	0	0	0	0	0	-0.3	-0.37	0	0	0	0	0	0
12/26/2024 15:22	66505	SMAN_T2	3	3	0	0.27	0.33	0.06	0	0	0	0	0	0	0	0
12/26/2024 15:25	66505	SMAN_T2	3	3	0	0.27	0.33	0.06	0	0	0	0	0	0	0	0
12/26/2024 15:25	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 15:26	66505	SMAN_T2	3	3	0	0.27	0.33	0.06	0	0	0	0	0	0	0	0
12/26/2024 15:26	66504	SMAN_T2	0	0	0	0	0	0	-0.3	-0.37	0	0	0	0	0	0
12/26/2024 15:46	52403	GRPA_T2	0	0	0	0	0	0	-0.08	-0.02	0	0	0	0	0	0
12/26/2024 15:46	52402	GRPA_T2	2	7	5	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/26/2024 16:02	17805	GILB_T2	0	0	0	0	0	0	0.33	0.43	0	0	0	0	0	0
12/26/2024 16:53	66502	SMAN_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
12/26/2024 16:53	66505	SMAN_T2	1	3	2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
12/26/2024 16:54	11203	ELHE_T1	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
12/26/2024 17:59	54602	SUMM_T2	0	1	1	0	0	0	-2.33	-2.35	1	1	0	600	600	0
12/26/2024 18:10	55002	NEWP_T1	1	4	3	0.2	0.55	0.35	-0.17	-0.19	0	0	0	0	0	0
12/26/2024 18:33	61701	ELIZ_T1	1	1	0	5.1	5.2	0.1	0.26	0.29	0	0	0	0	0	0
12/26/2024 18:33	63803	HEMP_T1	0	0	0	0	0	0	0.63	0.65	0	0	0	0	0	0
12/26/2024 18:33	63804	HEMP_T1	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
12/26/2024 18:37	66502	SMAN_T2	0	0	0	0	0	0	0.02	-0.12	0	0	0	0	0	0
12/26/2024 18:37	65206	PRIN_T4	1	0	-1	6.5	0	-6.5	0	0	0	0	0	0	0	0
12/26/2024 18:37	65004	NEFF_T2	0	1	1	0	0.2	0.2	-1.07	-1.04	1	1	0	600	600	0
12/26/2024 18:37	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 18:37	66505	SMAN_T2	3	3	0	0.4	0.73	0.33	0	0	0	0	0	0	0	0
12/26/2024 18:37	65003	NEFF_T2	0	43	43	0	0.16	0.16	0	0	0	0	0	0	0	0
12/26/2024 18:37	62104	ELAN_T1	0	0	0	0	0	0	1.32	1.26	0	0	0	0	0	0
12/26/2024 18:37	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 18:37	62105	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 18:37	65207	PRIN_T4	2	3	1	2.25	0.65	-1.6	0	0	1	1	0	1200	1200	0
12/26/2024 18:39	63601	LETO_T1	4	5	1	0.18	0.28	0.1	0.73	0.8	0	0	0	0	0	0
12/26/2024 18:39	44901	SCOT_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
12/26/2024 18:40	65001	NEFF_T2	0	0	0	0	0	0	0.22	0.15	0	0	0	0	0	0
12/26/2024 18:40	66505	SMAN_T2	3	3	0	0.4	0.73	0.33	0	0	0	0	0	0	0	0
12/26/2024 18:40	65004	NEFF_T2	0	1	1	0	0.2	0.2	-1.07	-1.04	1	1	0	600	600	0
12/26/2024 18:40	63501	HEID_TBK1-2	1	32	31	0.1	0.27	0.17	-0.43	-0.39	1	1	0	900	900	0
12/26/2024 18:40	65003	NEFF_T2	0	43	43	0	0.16	0.16	0	0	0	0	0	0	0	0
12/26/2024 18:40	66502	SMAN_T2	0	0	0	0	0	0	0.01	-0.06	0	0	0	0	0	0
12/26/2024 18:41	26704	HEMI_T2	0	0	0	0	0	0	-0.76	-0.78	1	1	0	1200	1200	0
12/26/2024 18:42	60301	TWVA_T2	0	1	1	0	0	0	-0.34	-0.38	0	0	0	0	0	0
12/26/2024 18:42	63501	HEID_TBK1-2	1	32	31	0.1	0.27	0.17	-0.43	-0.39	1	1	0	900	900	0
12/26/2024 18:42	12402	MILF_T1	1	1	0	0.9	0.9	0	-1.21	-1.22	0	0	0	0	0	0
12/26/2024 18:42	62105	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 18:42	26402	INOR_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
12/26/2024 18:42	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:42	26401	INOR_T1	8	5	-3	1.83	3.23	1.4	0	0	0	0	0	0	0	0
12/26/2024 18:42	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 18:42	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 18:42	11301	EMMA_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
12/26/2024 18:43	41901	REED_T1	9	9	0	0.56	0.56	0	0	0	0	0	0	0	0	0
12/26/2024 18:43	60701	BREC_T1	0	0	0	0	0	0	-0.33	-0.35	1	1	0	600	600	0
12/26/2024 18:43	60903	DONG_T2	0	0	0	0	0	0	0.56	0.55	1	1	0	600	600	0
12/26/2024 18:43	63601	LETO_T1	4	5	1	0.18	0.28	0.1	0.73	0.8	0	0	0	0	0	0
12/26/2024 18:43	64902	MILL_T2	0	0	0	0	0	0	-0.65	-0.68	1	1	0	900	900	0
12/26/2024 18:43	63501	HEID_TBK1-2	1	32	31	0.1	0.27	0.17	-0.43	-0.39	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/26/2024 18:43	65206	PRIN_T4	1	0	-1	6.5	0	-6.5	0	0	0	0	0	0	0	0
12/26/2024 18:43	41902	REED_T1	5	4	-1	0.18	0.35	0.17	0	0	0	0	0	0	0	0
12/26/2024 18:43	66903	SHIL_T2	0	0	0	0	0	0	-1.21	-1.21	0	0	0	0	0	0
12/26/2024 18:43	41903	REED_T1	0	0	0	0	0	0	-0.41	-0.41	1	1	0	1200	1200	0
12/26/2024 18:43	65207	PRIN_T4	2	3	1	2.25	0.65	-1.6	0	0	0	0	0	0	0	0
12/26/2024 18:43	62105	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 18:43	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:43	66502	SMAN_T2	0	0	0	0	0	0	0.01	-0.06	0	0	0	0	0	0
12/26/2024 18:43	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 18:43	62104	ELAN_T1	0	0	0	0	0	0	1.32	1.26	0	0	0	0	0	0
12/26/2024 18:43	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 18:43	66505	SMAN_T2	3	3	0	0.4	0.73	0.33	0	0	0	0	0	0	0	0
12/26/2024 18:44	41901	REED_T1	9	9	0	0.56	0.56	0	0	0	0	0	0	0	0	0
12/26/2024 18:44	41902	REED_T1	5	4	-1	0.18	0.35	0.17	0.71	0.7	2	2	0	1800	1800	0
12/26/2024 18:44	45501	DERR_T2	0	1	1	0	0	0	0.46	0.47	2	2	0	1800	1800	0
12/26/2024 18:44	13303	ORVI_T1	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
12/26/2024 18:44	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:44	66505	SMAN_T2	3	3	0	0.4	0.73	0.33	0	0	0	0	0	0	0	0
12/26/2024 18:44	23403	HONE_T1	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
12/26/2024 18:44	45502	DERR_T2	1	2	1	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/26/2024 18:44	10805	CHHI_T2	7	7	0	2.67	2.13	-0.54	-0.98	-0.93	1	1	0	600	600	0
12/26/2024 18:45	48301	ORWI_T1	2	2	0	4.95	5	0.05	0.34	0.3	0	0	0	0	0	0
12/26/2024 18:45	60701	BREC_T1	0	0	0	0	0	0	-0.33	-0.35	1	1	0	600	600	0
12/26/2024 18:45	63804	HEMP_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
12/26/2024 18:45	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/26/2024 18:45	67402	WAKE_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
12/26/2024 18:45	62106	ELAN_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
12/26/2024 18:45	65003	NEFF_T2	24	57	33	0.16	0.17	0.01	0	0	0	0	0	0	0	0
12/26/2024 18:45	65005	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:45	62104	ELAN_T1	0	0	0	0	0	0	1.32	1.26	0	0	0	0	0	0
12/26/2024 18:45	29402	BELT_T1	1	9	8	4.4	0.74	-3.66	0	0	0	0	0	0	0	0
12/26/2024 18:45	64702	LITI_T2	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
12/26/2024 18:45	60201	ATGL_T2	0	0	0	0	0	0	0.27	-0.03	0	0	0	0	0	0
12/26/2024 18:45	62105	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/26/2024 18:45	60903	DONG_T2	0	0	0	0	0	0	0.56	0.55	1	1	0	600	600	0
12/26/2024 18:45	67401	WAKE_T2	15	29	14	0.2	0.26	0.06	0	0	0	0	0	0	0	0
12/26/2024 18:45	65004	NEFF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/26/2024 18:45	63802	HEMP_T1	0	1	1	0	0	0	0.16	0.17	0	0	0	0	0	0
12/26/2024 18:45	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/26/2024 18:46	11302	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:46	60701	BREC_T1	0	0	0	0	0	0	-0.33	-0.35	1	1	0	600	600	0
12/26/2024 18:46	14704	TREX_T1	1	1	0	7.7	7.7	0	0	0	0	0	0	0	0	0
12/26/2024 18:46	66505	SMAN_T2	3	3	0	0.73	0.67	-0.06	0	0	0	0	0	0	0	0
12/26/2024 18:46	16302	ALPA_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
12/26/2024 18:46	14705	TREX_T1	0	2	2	0	0	0	-0.28	-0.25	0	0	0	0	0	0
12/26/2024 18:46	13904	SEID_T1	29	45	16	0.92	0.4	-0.52	0	0	0	0	0	0	0	0
12/26/2024 18:46	13902	SEID_T1	5	5	0	0.68	0.88	0.2	0	0	0	0	0	0	0	0
12/26/2024 18:46	66502	SMAN_T2	0	0	0	0	0	0	0.01	-0.06	0	0	0	0	0	0
12/26/2024 18:46	11507	FREE_T2	16	5	-11	0.73	0.4	-0.33	0.65	0.46	0	0	0	0	0	0
12/26/2024 18:46	47203	FAXO_T2	0	1	1	0	0	0	-1.71	-1.72	1	1	0	1200	1200	0
12/26/2024 18:46	13905	SEID_T1	0	0	0	0	0	0	-0.86	-0.84	1	1	0	1200	1200	0
12/26/2024 18:46	54505	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/26/2024 18:46	11303	EMMA_T1	0	0	0	0	0	0	-0.99	-1	0	0	0	0	0	0
12/26/2024 18:46	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:46	54504	ENOL_T2	0	0	0	0	0	0	-0.96	-0.98	1	1	0	600	600	0
12/26/2024 18:46	13701	SCHN_T2	0	0	0	0	0	0	0.04	0.05	1	1	0	600	600	0
12/26/2024 18:47	66505	SMAN_T2	3	3	0	0.73	0.67	-0.06	0	0	0	0	0	0	0	0
12/26/2024 18:47	63501	HEID_TBK1-2	29	36	7	0.25	0.34	0.09	-0.43	-0.39	1	1	0	900	900	0
12/26/2024 18:47	62105	ELAN_T1	1	1	0	0.1	0.1	0	0.54	0.52	0	0	0	0	0	0
12/26/2024 18:47	62102	ELAN_T1	0	0	0	0	0	0	0.79	0.85	0	0	0	0	0	0
12/26/2024 18:47	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:47	66502	SMAN_T2	0	0	0	0	0	0	0.01	-0.06	0	0	0	0	0	0
12/26/2024 18:47	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/26/2024 18:47	67402	WAKE_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
12/26/2024 18:47	67401	WAKE_T2	15	29	14	0.2	0.26	0.06	0	0	0	0	0	0	0	0
12/26/2024 18:47	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/26/2024 18:48	11301	EMMA_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
12/26/2024 18:48	15101	UPHA_T1	0	0	0	0	0	0	0.66	0.64	0	0	0	0	0	0
12/26/2024 18:48	15102	UPHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:48	15103	UPHA_T2	0	0	0	0	0	0	0.5	0.42	0	0	0	0	0	0
12/26/2024 18:48	62105	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/26/2024 18:48	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/26/2024 18:48	54203	PENN_T1	18	18	0	0.81	0.81	0	-0.03	-0.03	1	1	0	600	600	0
12/26/2024 18:48	45501	DERR_T2	0	1	1	0	0	0	0.46	0.47	2	2	0	1800	1800	0
12/26/2024 18:48	66902	SHIL_T2	0	0	0	0	0	0	-3.84	-3.82	0	0	0	0	0	0
12/26/2024 18:48	45502	DERR_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:48	62106	ELAN_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
12/26/2024 18:48	23401	HONE_T2	18	27	9	0.36	0.68	0.32	0.06	0.11	0	0	0	0	0	0
12/26/2024 18:48	54201	PENN_T1	6	6	0	0.23	0.3	0.07	0.81	0.86	0	0	0	0	0	0
12/26/2024 18:48	66505	SMAN_T2	3	3	0	0.73	0.67	-0.06	0	0	0	0	0	0	0	0
12/26/2024 18:48	14801	TREI_T2	0	0	0	0	0	0	0.76	0.79	0	0	0	0	0	0
12/26/2024 18:48	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:48	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/26/2024 18:48	66502	SMAN_T2	0	0	0	0	0	0	0.01	-0.06	0	0	0	0	0	0
12/26/2024 18:49	60903	DONG_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/26/2024 18:49	65201	PRIN_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
12/26/2024 18:49	24202	PROV_T4	0	1	1	0	0	0	-0.79	-0.79	1	1	0	1200	1200	0
12/26/2024 18:49	57203	ROSS_T1	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
12/26/2024 18:49	40801	EXCH_T2	0	1	1	0	0	0	-0.34	-0.36	1	1	0	1200	1200	0
12/26/2024 18:49	66902	SHIL_T2	0	0	0	0	0	0	-1.92	-1.91	0	0	0	0	0	0
12/26/2024 18:50	66502	SMAN_T2	3	3	0	0.73	0.67	-0.06	0	0	0	0	0	0	0	0
12/26/2024 18:50	55105	WERT_T1	0	0	0	0	0	0	-0.37	-0.41	1	1	0	900	900	0
12/26/2024 18:50	14204	EALL_T2	0	0	0	0	0	0	0.25	0.18	0	0	0	0	0	0
12/26/2024 18:50	17401	FOHI_T1	0	0	0	0	0	0	-2.01	-2.01	0	0	0	0	0	0
12/26/2024 18:50	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/26/2024 18:50	66503	SMAN_T2	0	0	0	0	0	0	0.42	0.38	0	0	0	0	0	0
12/26/2024 18:50	22602	KIMB_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
12/26/2024 18:50	29402	BELT_T1	1	9	8	4.4	0.74	-3.66	0	0	0	0	0	0	0	0
12/26/2024 18:50	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:50	55103	WERT_T1	1	1	0	4.1	4.1	0	0	0	0	0	0	0	0	0
12/26/2024 18:50	12401	MILF_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
12/26/2024 18:50	64802	MONE_T2	0	2	2	0	0.15	0.15	0.02	0.03	0	0	0	0	0	0
12/26/2024 18:50	12402	MILF_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
12/26/2024 18:50	66901	SHIL_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
12/26/2024 18:50	52503	PROG_T2	0	0	0	0	0	0	-0.48	-0.48	1	1	0	900	900	0
12/26/2024 18:50	65303	NBRI_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
12/26/2024 18:50	54601	SUMM_T2	0	0	0	0	0	0	-1.77	-1.77	2	2	0	2100	2100	0
12/26/2024 18:50	11303	EMMA_T1	0	0	0	0	0	0	-0.99	-1	0	0	0	0	0	0
12/26/2024 18:51	66505	SMAN_T2	3	3	0	0.73	0.67	-0.06	0	0	0	0	0	0	0	0
12/26/2024 18:51	60902	DONG_T2	0	0	0	0	0	0	0.47	0.51	0	0	0	0	0	0
12/26/2024 18:51	66504	SMAN_T2	0	0	0	0	0	0	-0.23	-0.36	0	0	0	0	0	0
12/26/2024 18:51	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/26/2024 18:51	44801	EDAN_T2	1	1	0	1	0.9	-0.1	-0.38	-0.37	0	0	0	0	0	0
12/26/2024 18:51	42503	ALTA_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
12/26/2024 18:51	54505	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/26/2024 18:51	54501	ENOL_T2	0	0	0	0	0	0	-0.48	-0.49	1	1	0	600	600	0
12/26/2024 18:51	54601	SUMM_T2	0	0	0	0	0	0	-1.77	-1.77	2	2	0	2100	2100	0
12/26/2024 18:51	40801	EXCH_T2	0	1	1	0	0	0	-0.34	-0.36	1	1	0	1200	1200	0
12/26/2024 18:51	64101	REFR_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
12/26/2024 18:52	20603	GRWO_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:52	43302	WATS_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
12/26/2024 18:52	63802	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:52	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/26/2024 18:52	14404	SSLA_T1	0	0	0	0	0	0	0.14	0.09	0	0	0	0	0	0
12/26/2024 18:52	63803	HEMP_T1	0	0	0	0	0	0	0.66	0.71	0	0	0	0	0	0
12/26/2024 18:52	20601	GRWO_T2	9	11	2	0.59	0.68	0.09	-0.02	-0.04	0	0	0	0	0	0
12/26/2024 18:52	43304	WATS_T2	16	6	-10	0.47	0.2	-0.27	0	0	0	0	0	0	0	0
12/26/2024 18:52	13503	MCMI_T2	0	1	1	0	0	0	0.4	0.4	0	0	0	0	0	0
12/26/2024 18:52	58202	NEWV_T1	0	0	0	0	0	0	-0.08	0.07	0	0	0	0	0	0
12/26/2024 18:52	14403	SSLA_T1	1	3	2	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/26/2024 18:52	63804	HEMP_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
12/26/2024 18:52	40801	EXCH_T2	0	1	1	0	0	0	-0.36	-0.37	1	1	0	1200	1200	0
12/26/2024 18:52	64802	MONE_T2	0	2	2	0	0.15	0.15	0	0.02	0	0	0	0	0	0
12/26/2024 18:52	42501	ALTA_T2	0	0	0	0	0	0	0.03	0.01	1	1	0	600	600	0
12/26/2024 18:52	20602	GRWO_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/26/2024 18:53	55103	WERT_T1	1	1	0	4.1	4.1	0	0	0	0	0	0	0	0	0
12/26/2024 18:53	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:53	22602	KIMB_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
12/26/2024 18:53	65004	NEFF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/26/2024 18:53	20603	GRWO_T2	0	2	2	0	0	0	-0.48	-0.47	1	1	0	900	900	0
12/26/2024 18:53	54601	SUMM_T2	0	0	0	0	0	0	-1.77	-1.77	2	2	0	2100	2100	0
12/26/2024 18:53	54206	PENN_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
12/26/2024 18:53	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:53	55105	WERT_T1	0	0	0	0	0	0	-0.41	-0.39	1	1	0	900	900	0
12/26/2024 18:53	65003	NEFF_T2	24	57	33	0.16	0.17	0.01	0	0	0	0	0	0	0	0
12/26/2024 18:53	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:53	44801	EDAN_T2	1	1	0	1	0.9	-0.1	-0.37	-0.36	0	0	0	0	0	0
12/26/2024 18:53	67402	WAKE_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
12/26/2024 18:53	20601	GRWO_T2	9	11	2	0.59	0.68	0.09	0	0	0	0	0	0	0	0
12/26/2024 18:53	58401	MORO_T1	1	1	0	0.7	0.7	0	-1.55	-1.64	2	2	0	1200	1200	0
12/26/2024 18:53	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:53	66903	SHIL_T2	0	0	0	0	0	0	-1.21	-1.23	0	0	0	0	0	0
12/26/2024 18:53	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/26/2024 18:53	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/26/2024 18:53	20602	GRWO_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
12/26/2024 18:53	67401	WAKE_T2	15	29	14	0.2	0.26	0.06	0	0	0	0	0	0	0	0
12/26/2024 18:53	43801	SWIL_T1	11	8	-3	0.72	0.94	0.22	0	0	0	0	0	0	0	0
12/26/2024 18:53	62105	ELAN_T1	1	1	0	0.1	0.1	0	0.52	0.54	0	0	0	0	0	0
12/26/2024 18:54	62105	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/26/2024 18:54	54603	SUMM_T2	0	0	0	0	0	0	-0.36	-0.36	1	1	0	900	900	0
12/26/2024 18:54	41902	REED_T1	2	4	2	0.45	0	-0.45	0.35	0.28	1	1	0	900	900	0
12/26/2024 18:54	65802	RTWN_T2	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
12/26/2024 18:54	16201	POFA_T2	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/26/2024 18:54	41903	REED_T1	0	0	0	0	0	0	-0.41	-0.44	1	1	0	1200	1200	0
12/26/2024 18:54	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/26/2024 18:54	65003	NEFF_T2	24	57	33	0.16	0.17	0.01	-2.08	-2.09	2	2	0	1800	1800	0
12/26/2024 18:54	21704	SUBU_T1	6	10	4	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
12/26/2024 18:54	21705	SUBU_T1	2	2	0	3.4	3.65	0.25	0	0	0	0	0	0	0	0
12/26/2024 18:54	65004	NEFF_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/26/2024 18:54	54602	SUMM_T2	0	0	0	0	0	0	-2.38	-2.36	1	1	0	600	600	0
12/26/2024 18:54	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:54	57201	ROSS_T1	0	0	0	0	0	0	-1.03	-1.07	0	0	0	0	0	0
12/26/2024 18:54	21701	SUBU_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
12/26/2024 18:54	65803	RTWN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 18:54	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/26/2024 18:54	21702	SUBU_T1	1	5	4	0	0.2	0.2	0	0	0	0	0	0	0	0
12/26/2024 18:54	41901	REED_T1	9	7	-2	0.49	0.77	0.28	0	0	0	0	0	0	0	0
12/26/2024 18:54	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:55	17805	GILB_T2	0	0	0	0	0	0	-0.59	-0.62	0	0	0	0	0	0
12/26/2024 18:55	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:55	41902	REED_T1	2	4	2	0.45	0	-0.45	0.35	0.28	1	1	0	900	900	0
12/26/2024 18:55	41901	REED_T1	9	7	-2	0.49	0.77	0.28	0	0	0	0	0	0	0	0
12/26/2024 18:55	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:55	48302	ORWI_T2	2	2	0	1.5	1.5	0	0	0	0	0	0	0	0	0
12/26/2024 18:55	55002	NEWP_T1	3	3	0	0.67	0.6	-0.07	0	0	0	0	0	0	0	0
12/26/2024 18:55	13503	MCMI_T2	0	1	1	0	0	0	0.4	0.4	0	0	0	0	0	0
12/26/2024 18:55	54501	ENOL_T2	0	0	0	0	0	0	-0.48	-0.49	1	1	0	600	600	0
12/26/2024 18:55	48303	ORWI_T2	0	0	0	0	0	0	1.12	1.1	0	0	0	0	0	0
12/26/2024 18:55	54505	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/26/2024 18:55	52001	LING_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
12/26/2024 18:55	42802	SELI_T1	0	0	0	0	0	0	-1.74	-1.73	0	0	0	0	0	0
12/26/2024 18:55	55001	NEWP_T1	0	2	2	0	0	0	-1.78	-1.7	2	2	0	1200	1200	0
12/26/2024 18:56	66505	SMAN_T2	3	3	0	0.73	0.67	-0.06	-0.41	-0.46	1	1	0	900	900	0
12/26/2024 18:56	12401	MILF_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
12/26/2024 18:56	14605	SWHI_T1	0	0	0	0	0	0	1.13	1.11	1	1	0	1200	1200	0
12/26/2024 18:56	24204	PROV_T3	4	10	6	1.53	0.7	-0.83	0	0	0	0	0	0	0	0
12/26/2024 18:56	54603	SUMM_T2	0	0	0	0	0	0	-0.36	-0.36	1	1	0	900	900	0
12/26/2024 18:56	24205	PROV_T3	18	59	41	0.32	0.23	-0.09	0	0	0	0	0	0	0	0
12/26/2024 18:56	57201	ROSS_T1	0	0	0	0	0	0	-1.03	-1.07	0	0	0	0	0	0
12/26/2024 18:56	12402	MILF_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
12/26/2024 18:56	66903	SHIL_T2	0	0	0	0	0	0	-1.21	-1.23	0	0	0	0	0	0
12/26/2024 18:56	66502	SMAN_T2	0	0	0	0	0	0	-0.06	-0.14	0	0	0	0	0	0
12/26/2024 18:56	14403	SSLA_T1	1	3	2	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/26/2024 18:56	24201	PROV_T3	1	1	0	6.6	6.2	-0.4	-1.32	-1.34	1	1	0	1200	1200	0
12/26/2024 18:56	51204	MTON_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
12/26/2024 18:56	14401	SSLA_T1	0	0	0	0	0	0	-0.9	-0.89	1	1	0	1200	1200	0
12/26/2024 18:56	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:56	57205	ROSS_T1	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
12/26/2024 18:57	64203	KINZ_T1	0	0	0	0	0	0	-0.41	-0.33	1	1	0	600	600	0
12/26/2024 18:57	60701	BREC_T1	0	0	0	0	0	0	-0.35	-0.38	1	1	0	600	600	0
12/26/2024 18:57	67401	WAKE_T2	15	29	14	0.2	0.26	0.06	-1.13	-1.13	0	0	0	0	0	0
12/26/2024 18:57	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
12/26/2024 18:57	64201	KINZ_T1	2	4	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/26/2024 18:57	66505	SMAN_T2	3	3	0	0.73	0.67	-0.06	0	0	0	0	0	0	0	0
12/26/2024 18:57	66504	SMAN_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
12/26/2024 18:58	61303	EARL_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
12/26/2024 18:58	61304	EARL_T1	0	0	0	0	0	0	-0.84	-0.89	1	1	0	600	600	0
12/26/2024 18:58	53501	EVIL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
12/26/2024 18:58	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:58	10805	CHHI_T2	7	11	4	2.14	3	0.86	-0.93	-0.96	1	1	0	600	600	0
12/26/2024 18:58	15104	UPHA_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
12/26/2024 18:58	58302	NOTT_T1	0	0	0	0	0	0	-0.41	-0.31	1	1	0	1200	1200	0
12/26/2024 18:58	64702	LITI_T2	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
12/26/2024 18:58	10801	CHHI_T1	0	0	0	0	0	0	-2	-1.98	3	3	0	2100	2100	0
12/26/2024 18:59	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 18:59	43304	WATS_T2	16	6	-10	0.47	0.2	-0.27	0	0	0	0	0	0	0	0
12/26/2024 18:59	51202	MTON_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
12/26/2024 18:59	43302	WATS_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
12/26/2024 19:00	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 19:00	58401	MORO_T1	1	1	0	0.7	0	-0.7	-1.55	-1.64	2	2	0	1200	1200	0
12/26/2024 19:00	66903	SHIL_T2	0	0	0	0	0	0	-1.21	-1.23	0	0	0	0	0	0
12/26/2024 19:00	41902	REED_T1	4	0	-4	0.33	0	-0.33	0.35	0.28	1	1	0	900	900	0
12/26/2024 19:00	41901	REED_T1	7	7	0	0.61	0.76	0.15	0	0	0	0	0	0	0	0
12/26/2024 19:00	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-0.97	1	1	0	600	600	0
12/26/2024 19:00	58202	NEWV_T1	0	0	0	0	0	0	-0.04	0.04	0	0	0	0	0	0
12/26/2024 19:00	52401	GRPA_T2	7	3	-4	0.43	0	-0.43	0	0	0	0	0	0	0	0
12/26/2024 19:00	13702	SCHN_T1	0	0	0	0	0	0	-0.47	-0.53	0	0	0	0	0	0
12/26/2024 19:00	54505	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/26/2024 19:00	52402	GRPA_T2	3	5	2	0.2	0.7	0.5	-0.56	-0.57	0	0	0	0	0	0
12/26/2024 19:01	59002	MIFF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/26/2024 19:01	57201	ROSS_T1	0	0	0	0	0	0	-1.03	-1.07	0	0	0	0	0	0
12/26/2024 19:01	45802	HEGI_T2	45	27	-18	0.96	0.46	-0.5	0	0	0	0	0	0	0	0
12/26/2024 19:01	59003	MIFF_T1	0	2	2	0	0.3	0.3	-0.99	-1.09	0	0	0	0	0	0
12/26/2024 19:02	11103	EGYP_T1	0	0	0	0	0	0	0.47	0.53	0	0	0	0	0	0
12/26/2024 19:02	11104	EGYP_T1	2	1	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/26/2024 19:03	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 19:03	52402	GRPA_T2	3	5	2	0.2	0.7	0.5	-0.56	-0.57	0	0	0	0	0	0
12/26/2024 19:03	55002	NEWP_T1	3	3	0	0.43	0.6	0.17	-0.18	-0.17	0	0	0	0	0	0
12/26/2024 19:03	57201	ROSS_T1	0	0	0	0	0	0	-1.03	-1.07	0	0	0	0	0	0
12/26/2024 19:03	54601	SUMM_T2	0	1	1	0	0.2	0.2	-1.77	-1.77	2	2	0	2100	2100	0
12/26/2024 19:03	52401	GRPA_T2	7	3	-4	0.43	0	-0.43	0	0	0	0	0	0	0	0
12/26/2024 19:04	12402	MILF_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
12/26/2024 19:04	12401	MILF_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
12/26/2024 19:04	48302	ORWI_T2	2	2	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
12/26/2024 19:04	48303	ORWI_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
12/26/2024 19:06	53501	EVIL_T2	0	1	1	0	0.8	0.8	-0.38	-0.38	0	0	0	0	0	0
12/26/2024 19:10	13503	MCMI_T2	0	0	0	0	0	0	0.4	0.45	0	0	0	0	0	0
12/26/2024 19:13	52503	PROG_T2	0	0	0	0	0	0	-0.52	-0.5	1	1	0	900	900	0
12/26/2024 19:52	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/26/2024 19:52	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/26/2024 19:52	16103	BING_T2	0	1	1	0	0.1	0.1	-2.14	-2.15	2	2	0	1500	1500	0
12/26/2024 19:56	52402	GRPA_T2	3	3	0	0.6	0.77	0.17	0	0	0	0	0	0	0	0
12/26/2024 19:56	52403	GRPA_T2	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
12/26/2024 19:58	14404	SSLA_T1	0	0	0	0	0	0	0.1	0.05	0	0	0	0	0	0
12/26/2024 19:58	14403	SSLA_T1	0	5	5	0	2.2	2.2	0	0	0	0	0	0	0	0
12/27/2024 0:20	54602	SUMM_T2	0	0	0	0	0	0	-2.4	-2.45	1	1	0	600	600	0
12/27/2024 7:54	13704	SCHN_T2	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
12/27/2024 8:00	26704	HEML_T2	0	0	0	0	0	0	-0.75	-0.77	1	1	0	1200	1200	0
12/27/2024 8:08	48301	ORWI_T1	3	2	-1	3.9	5.7	1.8	-0.52	-0.51	1	1	0	900	900	0
12/27/2024 8:18	52502	PROG_T2	0	0	0	0	0	0	0.6	-0.35	0	1	1	0	900	900
12/27/2024 8:19	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 8:22	66504	SMAN_T2	0	1	1	0	0.1	0.1	-1.53	-1.55	1	1	0	1200	1200	0
12/27/2024 8:22	66503	SMAN_T2	0	0	0	0	0	0	0.38	0.42	0	0	0	0	0	0
12/27/2024 8:23	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 8:33	20601	GRWO_T2	156	124	-32	1.04	0.47	-0.57	0.63	0.65	0	0	0	0	0	0
12/27/2024 8:33	20603	GRWO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/27/2024 8:36	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 8:36	66505	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
12/27/2024 8:38	13302	ORVI_T2	0	0	0	0	0	0	1.19	1.21	0	0	0	0	0	0
12/27/2024 8:45	63501	HEID_TBK1-2	34	43	9	0.4	0.38	-0.02	-0.55	-0.48	2	2	0	1800	1800	0
12/27/2024 8:47	63501	HEID_TBK1-2	34	43	9	0.4	0.38	-0.02	-0.27	-0.24	1	1	0	900	900	0
12/27/2024 8:49	60501	NMAN_T2	7	12	5	0.1	0.17	0.07	0	0	0	0	0	0	0	0
12/27/2024 8:49	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 8:51	60501	NMAN_T2	7	12	5	0.1	0.17	0.07	0	0	0	0	0	0	0	0
12/27/2024 8:51	60502	NMAN_T2	0	0	0	0	0	0	-0.1	-0.07	0	0	0	0	0	0
12/27/2024 8:52	60502	NMAN_T2	0	0	0	0	0	0	-0.07	0.12	0	0	0	0	0	0
12/27/2024 8:52	60501	NMAN_T2	7	12	5	0.1	0.17	0.07	0	0	0	0	0	0	0	0
12/27/2024 9:00	48302	ORWI_T2	2	2	0	1.9	1.9	0	0	0	0	0	0	0	0	0
12/27/2024 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
12/27/2024 9:00	10801	CHHI_T1	6	27	21	0.45	1.1	0.65	-1.61	-1.81	3	3	0	2100	2100	0
12/27/2024 9:00	48303	ORWI_T2	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
12/27/2024 9:00	67502	WEWI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/27/2024 9:00	58202	NEWV_T1	0	0	0	0	0	0	-0.22	-0.15	0	0	0	0	0	0
12/27/2024 9:00	53501	EVIL_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
12/27/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
12/27/2024 9:00	53502	EVIL_T2	1	1	0	3.3	2.8	-0.5	0	0	0	0	0	0	0	0
12/27/2024 9:03	54506	ENOL_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
12/27/2024 9:03	54504	ENOL_T2	0	1	1	0	9.7	9.7	0	0	0	0	0	0	0	0
12/27/2024 9:03	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/27/2024 9:11	29402	BELT_T1	1	1	0	4.6	5.1	0.5	0	0	0	0	0	0	0	0
12/27/2024 9:11	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/27/2024 9:17	26704	HEML_T2	0	0	0	0	0	0	-0.74	-0.69	1	1	0	1200	1200	0
12/27/2024 9:17	63501	HEID_TBK1-2	35	33	-2	0.32	0.25	-0.07	-0.55	-0.4	2	2	0	1800	1800	0
12/27/2024 9:18	13503	MCMI_T2	3	0	-3	0.4	0	-0.4	0.45	0.43	0	0	0	0	0	0
12/27/2024 9:21	63501	HEID_TBK1-2	35	33	-2	0.32	0.25	-0.07	-0.28	-0.2	1	1	0	900	900	0
12/27/2024 9:21	24202	PROV_T4	0	0	0	0	0	0	-0.8	-0.79	1	1	0	1200	1200	0
12/27/2024 9:21	57205	ROSS_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
12/27/2024 9:24	57201	ROSS_T1	0	0	0	0	0	0	-0.78	-0.71	0	0	0	0	0	0
12/27/2024 9:26	61001	DONV_T1	0	0	0	0	0	0	-0.49	-0.43	0	0	0	0	0	0
12/27/2024 9:27	62605	ENGL_T1	0	0	0	0	0	0	-1.15	-1.16	0	0	0	0	0	0
12/27/2024 9:27	62606	ENGL_T1	1	41	40	0.1	0.1	0	0	0	0	0	0	0	0	0
12/27/2024 9:29	62606	ENGL_T1	1	41	40	0.1	0.1	0	0	0	0	0	0	0	0	0
12/27/2024 9:29	61001	DONV_T1	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
12/27/2024 9:29	62607	ENGL_T1	0	0	0	0	0	0	-1.04	-1.02	1	1	0	300	300	0
12/27/2024 9:29	62605	ENGL_T1	0	0	0	0	0	0	-1.15	-1.16	0	0	0	0	0	0
12/27/2024 9:31	62605	ENGL_T1	0	1	1	0	0.1	0.1	-3.45	-3.48	0	0	0	0	0	0
12/27/2024 9:31	62606	ENGL_T1	13	49	36	0.1	0.15	0.05	0	0	0	0	0	0	0	0
12/27/2024 9:37	57201	ROSS_T1	0	0	0	0	0	0	-0.71	-0.8	0	0	0	0	0	0
12/27/2024 9:38	57201	ROSS_T1	0	0	0	0	0	0	-0.71	-0.8	0	0	0	0	0	0
12/27/2024 9:40	25603	ARRO_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
12/27/2024 9:40	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 9:40	55101	WERT_T1	0	0	0	0	0	0	-1.27	-1.32	2	2	0	1500	1500	0
12/27/2024 9:41	55101	WERT_T1	0	0	0	0	0	0	-1.27	-1.32	2	2	0	1500	1500	0
12/27/2024 9:41	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 9:43	53501	EVIL_T2	1	2	1	1	0.95	-0.05	-0.82	-0.86	1	1	0	600	600	0
12/27/2024 9:43	53502	EVIL_T2	1	1	0	3.7	3	-0.7	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/27/2024 9:46	10801	CHHI_T1	4	2	-2	1.1	0.8	-0.3	-1.65	-1.72	3	3	0	2100	2100	0
12/27/2024 9:46	63601	LETO_T1	6	7	1	0.58	0.87	0.29	0.59	0.62	0	0	0	0	0	0
12/27/2024 9:49	63601	LETO_T1	6	7	1	0.58	0.87	0.29	0.59	0.62	0	0	0	0	0	0
12/27/2024 9:50	63501	HEID_TBK1-2	30	74	44	0.24	0.39	0.15	-0.2	-0.25	1	1	0	900	900	0
12/27/2024 9:50	52502	PROG_T2	0	0	0	0	0	0	-0.35	0.58	1	0	-1	900	0	-900
12/27/2024 9:51	24205	PROV_T3	5	7	2	0.26	0.32	0.06	0	0	0	0	0	0	0	0
12/27/2024 9:51	24204	PROV_T3	2	2	0	2.9	2.9	0	0	0	0	0	0	0	0	0
12/27/2024 9:51	24201	PROV_T3	1	3	2	6.3	2.1	-4.2	-1.38	-1.37	1	1	0	1200	1200	0
12/27/2024 9:51	52502	PROG_T2	0	0	0	0	0	0	0.58	0.58	1	0	-1	900	0	-900
12/27/2024 9:52	52502	PROG_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
12/27/2024 9:53	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
12/27/2024 9:53	52502	PROG_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
12/27/2024 9:54	52502	PROG_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
12/27/2024 9:55	54601	SUMM_T2	0	2	2	0	0.25	0.25	-1.74	-1.69	2	2	0	2100	2100	0
12/27/2024 9:58	48901	FOSP_T2	4	4	0	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
12/27/2024 9:58	48902	FOSP_T2	15	15	0	0.29	0.26	-0.03	-2.7	-2.2	4	4	0	4800	4800	0
12/27/2024 9:59	48902	FOSP_T2	15	15	0	0.29	0.26	-0.03	-1.35	-1.1	2	2	0	2400	2400	0
12/27/2024 9:59	48901	FOSP_T2	4	4	0	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
12/27/2024 10:00	48901	FOSP_T2	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
12/27/2024 10:00	48902	FOSP_T2	14	10	-4	0.24	0.28	0.04	-2.7	-2.2	4	4	0	4800	4800	0
12/27/2024 10:01	63802	HEMP_T1	0	0	0	0	0	0	0.29	0.24	0	0	0	0	0	0
12/27/2024 10:01	63803	HEMP_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
12/27/2024 10:01	63804	HEMP_T1	1	1	0	6.7	6.2	-0.5	0	0	0	0	0	0	0	0
12/27/2024 10:01	48902	FOSP_T2	14	10	-4	0.24	0.28	0.04	-1.35	-1.1	2	2	0	2400	2400	0
12/27/2024 10:01	63801	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/27/2024 10:01	63501	HEID_TBK1-2	36	75	39	0.37	0.39	0.02	-0.5	-0.47	2	2	0	1800	1800	0
12/27/2024 10:01	48901	FOSP_T2	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
12/27/2024 10:02	20603	GRWO_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 10:02	20601	GRWO_T2	59	43	-16	0.58	0.44	-0.14	0.68	0.66	0	0	0	0	0	0
12/27/2024 10:03	48902	FOSP_T2	14	10	-4	0.24	0.28	0.04	-1.35	-1.1	2	2	0	2400	2400	0
12/27/2024 10:03	48901	FOSP_T2	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
12/27/2024 10:07	67002	STHI_T2	156	258	102	0.22	0.25	0.03	0.73	0.72	0	0	0	0	0	0
12/27/2024 10:07	67001	STHI_T2	333	434	101	0.22	0.29	0.07	0.17	0.19	0	0	0	0	0	0
12/27/2024 10:08	67002	STHI_T2	156	258	102	0.22	0.25	0.03	1.45	1.44	0	0	0	0	0	0
12/27/2024 10:08	67001	STHI_T2	333	434	101	0.22	0.29	0.07	0	0	0	0	0	0	0	0
12/27/2024 10:09	67001	STHI_T2	333	434	101	0.22	0.29	0.07	0	0	0	0	0	0	0	0
12/27/2024 10:09	67002	STHI_T2	156	258	102	0.22	0.25	0.03	4.36	4.33	0	0	0	0	0	0
12/27/2024 10:10	67002	STHI_T2	156	258	102	0.22	0.25	0.03	0.73	0.72	0	0	0	0	0	0
12/27/2024 10:10	67001	STHI_T2	333	434	101	0.22	0.29	0.07	0	0	0	0	0	0	0	0
12/27/2024 10:11	67001	STHI_T2	333	434	101	0.22	0.29	0.07	0	0	0	0	0	0	0	0
12/27/2024 10:11	67002	STHI_T2	156	258	102	0.22	0.25	0.03	1.45	1.44	0	0	0	0	0	0
12/27/2024 10:12	26401	INOR_T1	16	18	2	0.99	5.8	4.81	0	0	0	0	0	0	0	0
12/27/2024 10:12	67001	STHI_T2	333	434	101	0.22	0.29	0.07	0	0	0	0	0	0	0	0
12/27/2024 10:12	26402	INOR_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
12/27/2024 10:12	29402	BELT_T1	1	2	1	5	2.95	-2.05	0	0	0	0	0	0	0	0
12/27/2024 10:12	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:12	67002	STHI_T2	156	258	102	0.22	0.25	0.03	0.73	0.72	0	0	0	0	0	0
12/27/2024 10:14	29402	BELT_T1	1	2	1	5	2.95	-2.05	0	0	0	0	0	0	0	0
12/27/2024 10:14	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:16	20603	GRWO_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
12/27/2024 10:16	54504	ENOL_T2	0	0	0	0	0	0	-0.96	-0.95	1	1	0	600	600	0
12/27/2024 10:16	54505	ENOL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
12/27/2024 10:16	61001	DONV_T1	1	1	0	0.6	0.5	-0.1	-0.03	-0.02	0	0	0	0	0	0
12/27/2024 10:16	20601	GRWO_T2	40	22	-18	0.53	0.29	-0.24	0.66	0.58	0	0	0	0	0	0
12/27/2024 10:17	65502	MOJO_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/27/2024 10:17	65503	MOJO_T2	11	5	-6	0.12	0.12	0	0	0	0	0	0	0	0	0
12/27/2024 10:18	64202	KINZ_T1	2	3	1	0.35	0.67	0.32	0	0	0	0	0	0	0	0
12/27/2024 10:18	20603	GRWO_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
12/27/2024 10:18	64203	KINZ_T1	4	0	-4	0.13	0	-0.13	0.21	0.25	1	1	0	600	600	0
12/27/2024 10:18	64204	KINZ_T1	36	12	-24	0.43	0.28	-0.15	0	0	0	0	0	0	0	0
12/27/2024 10:18	20601	GRWO_T2	40	22	-18	0.53	0.29	-0.24	0.66	0.58	0	0	0	0	0	0
12/27/2024 10:20	65502	MOJO_T2	4	0	-4	0.1	0	-0.1	-0.39	-0.3	0	0	0	0	0	0
12/27/2024 10:20	40602	PIGR_T1	15	1	-14	0.46	3	2.54	0	0	0	0	0	0	0	0
12/27/2024 10:20	40601	PIGR_T1	9	1	-8	0.23	0.3	0.07	-0.77	-0.71	0	0	0	0	0	0
12/27/2024 10:20	65503	MOJO_T2	11	5	-6	0.12	0.12	0	0	0	0	0	0	0	0	0
12/27/2024 10:20	51204	MTON_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
12/27/2024 10:20	40603	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/27/2024 10:21	65503	MOJO_T2	11	5	-6	0.12	0.12	0	-1.22	-1.16	1	1	0	900	900	0
12/27/2024 10:21	65502	MOJO_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/27/2024 10:21	40602	PIGR_T1	15	1	-14	0.46	3	2.54	0	0	0	0	0	0	0	0
12/27/2024 10:21	54201	PENN_T1	9	10	1	0.54	0.56	0.02	0	0	0	0	0	0	0	0
12/27/2024 10:21	66505	SMAN_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:21	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:21	40601	PIGR_T1	9	1	-8	0.23	0.3	0.07	0	0	0	0	0	0	0	0
12/27/2024 10:21	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:21	54203	PENN_T1	18	18	0	1.08	1.08	0	0.01	0.03	0	0	0	0	0	0
12/27/2024 10:21	40603	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/27/2024 10:21	66502	SMAN_T2	1	5	4	0.2	0.18	-0.02	0.49	0.54	0	0	0	0	0	0
12/27/2024 10:22	66505	SMAN_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:22	40603	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/27/2024 10:22	65502	MOJO_T2	4	0	-4	0.1	0	-0.1	-0.3	-0.27	0	0	0	0	0	0
12/27/2024 10:22	66502	SMAN_T2	1	5	4	0.2	0.18	-0.02	0.54	0.75	0	0	0	0	0	0
12/27/2024 10:22	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:22	55002	NEWP_T1	0	2	2	0	0.15	0.15	-0.15	-0.17	0	0	0	0	0	0
12/27/2024 10:22	40602	PIGR_T1	15	1	-14	0.46	3	2.54	0	0	0	0	0	0	0	0
12/27/2024 10:22	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:22	40601	PIGR_T1	9	1	-8	0.23	0.3	0.07	0	0	0	0	0	0	0	0
12/27/2024 10:22	14801	TREI_T2	0	1	1	0	0.1	0.1	0.68	0.65	0	0	0	0	0	0
12/27/2024 10:22	65503	MOJO_T2	11	5	-6	0.12	0.12	0	0	0	0	0	0	0	0	0
12/27/2024 10:23	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:23	66505	SMAN_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:23	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:23	66502	SMAN_T2	1	5	4	0.2	0.18	-0.02	0.27	0.37	0	0	0	0	0	0
12/27/2024 10:23	54203	PENN_T1	18	18	0	1.08	1.08	0	0.01	0.03	0	0	0	0	0	0
12/27/2024 10:23	54201	PENN_T1	9	10	1	0.54	0.56	0.02	0	0	0	0	0	0	0	0
12/27/2024 10:24	40603	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/27/2024 10:24	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:24	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.31	-0.35	0	0	0	0	0	0
12/27/2024 10:24	66502	SMAN_T2	1	5	4	0.2	0.18	-0.02	0.27	0.37	0	0	0	0	0	0
12/27/2024 10:24	66505	SMAN_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:24	40601	PIGR_T1	9	1	-8	0.23	0.3	0.07	-0.71	-0.67	0	0	0	0	0	0
12/27/2024 10:24	40602	PIGR_T1	15	1	-14	0.46	3	2.54	-0.49	-0.44	1	1	0	600	600	0
12/27/2024 10:25	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.62	-0.7	0	0	0	0	0	0
12/27/2024 10:25	40602	PIGR_T1	15	1	-14	0.46	3	2.54	0	0	0	0	0	0	0	0
12/27/2024 10:25	40601	PIGR_T1	9	1	-8	0.23	0.3	0.07	0	0	0	0	0	0	0	0
12/27/2024 10:25	66502	SMAN_T2	1	5	4	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
12/27/2024 10:25	66505	SMAN_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:25	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:25	40603	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/27/2024 10:25	60701	BREC_T1	0	0	0	0	0	0	-0.27	-0.29	2	2	0	1200	1200	0
12/27/2024 10:26	66505	SMAN_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:26	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:26	66502	SMAN_T2	1	5	4	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
12/27/2024 10:26	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:27	46204	DANV_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
12/27/2024 10:27	61304	EARL_T1	0	0	0	0	0	0	-0.84	-0.83	1	1	0	600	600	0
12/27/2024 10:27	46203	DANV_T2	2	0	-2	2.5	0	-2.5	-0.29	-0.3	0	0	0	0	0	0
12/27/2024 10:29	46204	DANV_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
12/27/2024 10:29	46203	DANV_T2	2	0	-2	2.5	0	-2.5	-0.29	-0.3	0	0	0	0	0	0
12/27/2024 10:34	13303	ORVI_T1	0	0	0	0	0	0	0.86	0.87	0	0	0	0	0	0
12/27/2024 10:34	23401	HONE_T2	13	36	23	0.45	0.45	0	0.12	0.1	0	0	0	0	0	0
12/27/2024 10:36	44902	SCOT_T2	0	0	0	0	0	0	-0.89	-0.87	0	0	0	0	0	0
12/27/2024 10:36	44901	SCOT_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:38	26401	INOR_T1	2	2	0	5.8	5.85	0.05	0	0	0	0	0	0	0	0
12/27/2024 10:38	41903	REED_T1	0	0	0	0	0	0	-0.09	-0.23	1	1	0	1200	1200	0
12/27/2024 10:38	26402	INOR_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
12/27/2024 10:38	41902	REED_T1	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/27/2024 10:38	41901	REED_T1	5	8	3	0.34	0.54	0.2	0	0	0	0	0	0	0	0
12/27/2024 10:39	65802	RTWN_T2	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
12/27/2024 10:39	65803	RTWN_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
12/27/2024 10:40	40602	PIGR_T1	1	2	1	3.1	2.8	-0.3	-0.44	-0.45	1	1	0	600	600	0
12/27/2024 10:40	44901	SCOT_T2	0	1	1	0	0.1	0.1	0.1	0.04	0	0	0	0	0	0
12/27/2024 10:40	40601	PIGR_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/27/2024 10:41	42504	ALTA_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
12/27/2024 10:41	42503	ALTA_T2	0	6	6	0	0.17	0.17	0	0	0	0	0	0	0	0
12/27/2024 10:41	42501	ALTA_T2	0	8	8	0	0.15	0.15	0.11	0.25	2	2	0	1200	1200	0
12/27/2024 10:42	42504	ALTA_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
12/27/2024 10:42	10801	CHHI_T1	1	1	0	0.5	0.5	0	-1.72	-1.76	3	3	0	2100	2100	0
12/27/2024 10:42	42503	ALTA_T2	0	6	6	0	0.17	0.17	0	0	0	0	0	0	0	0
12/27/2024 10:42	42501	ALTA_T2	0	8	8	0	0.15	0.15	0.06	0.13	1	1	0	600	600	0
12/27/2024 10:44	41801	GOCI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/27/2024 10:44	61305	EARL_T1	0	0	0	0	0	0	-0.16	-0.15	2	2	0	1500	1500	0
12/27/2024 10:45	41801	GOCI_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
12/27/2024 10:47	53802	MBRG_T2	0	0	0	0	0	0	-0.3	-0.26	0	0	0	0	0	0
12/27/2024 10:49	64702	LITI_T2	0	7	7	0	0.1	0.1	-0.93	-0.86	0	0	0	0	0	0
12/27/2024 10:50	53802	MBRG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 10:50	16201	POPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 10:50	64101	REFR_T1	0	0	0	0	0	0	0.08	-0.02	0	0	0	0	0	0
12/27/2024 10:51	64101	REFR_T1	0	0	0	0	0	0	0.08	-0.02	0	0	0	0	0	0
12/27/2024 10:52	44904	SCOT_T1	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
12/27/2024 10:52	44905	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 10:54	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/27/2024 10:55	60701	BREC_T1	0	1	1	0	0.2	0.2	-0.59	-0.46	4	4	0	2400	2400	0
12/27/2024 10:55	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
12/27/2024 10:55	40601	PIGR_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/27/2024 10:55	40603	PIGR_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/27/2024 10:55	40602	PIGR_T1	1	1	0	3	2.4	-0.6	-0.45	-0.46	1	1	0	600	600	0
12/27/2024 10:56	60701	BREC_T1	0	1	1	0	0.2	0.2	-0.59	-0.46	4	4	0	2400	2400	0
12/27/2024 10:56	42701	AUGU_T1	2	9	7	0.55	0.21	-0.34	0	0	0	0	0	0	0	0
12/27/2024 10:57	60701	BREC_T1	0	1	1	0	0.2	0.2	-0.29	-0.23	2	2	0	1200	1200	0
12/27/2024 10:59	55501	HERS_T1	13	31	18	0.1	0.1	0	0	0	0	0	0	0	0	0
12/27/2024 10:59	42701	AUGU_T1	2	9	7	0.55	0.21	-0.34	0	0	0	0	0	0	0	0
12/27/2024 10:59	55507	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/27/2024 11:00	43402	BENT_T1	1	1	0	0.4	0	-0.4	-0.92	-0.91	1	1	0	900	900	0
12/27/2024 11:00	55508	HERS_T2	2	3	1	1.6	1.8	0.2	0	0	1	1	0	1200	1200	0
12/27/2024 11:00	43401	BENT_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/27/2024 11:01	45802	HEGI_T2	1	18	17	0.1	0.57	0.47	0	0	0	0	0	0	0	0
12/27/2024 11:02	45802	HEGI_T2	1	18	17	0.1	0.57	0.47	0.23	0.24	1	1	0	900	900	0
12/27/2024 11:02	63501	HEID_TBK1-2	52	107	55	0.52	0.4	-0.12	-0.33	-0.28	1	1	0	900	900	0
12/27/2024 11:03	64501	LAVI_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
12/27/2024 11:03	55508	HERS_T2	2	3	1	1.6	1.8	0.2	0	0	1	1	0	1200	1200	0
12/27/2024 11:03	64502	LAVI_T1	2	12	10	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
12/27/2024 11:04	45802	HEGI_T2	1	18	17	0.1	0.57	0.47	0.23	0.24	1	1	0	900	900	0
12/27/2024 11:07	44905	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 11:07	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 11:08	66903	SHIL_T2	0	0	0	0	0	0	-1.14	-1.14	0	0	0	0	0	0
12/27/2024 11:09	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 11:10	13704	SCHN_T2	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
12/27/2024 11:12	16101	BING_T2	0	1	1	0	0	0	0.55	0.53	0	0	0	0	0	0
12/27/2024 11:12	14801	TREI_T2	0	0	0	0	0	0	0.61	0.64	0	0	0	0	0	0
12/27/2024 11:13	47203	FAXO_T2	1	1	0	0.1	0	-0.1	-1.69	-1.69	1	1	0	1200	1200	0
12/27/2024 11:16	64201	KINZ_T1	0	0	0	0	0	0	-0.28	-0.26	3	3	0	1500	1500	0
12/27/2024 11:16	64202	KINZ_T1	3	3	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
12/27/2024 11:16	64204	KINZ_T1	13	19	6	0.39	0.53	0.14	0	0	0	0	0	0	0	0
12/27/2024 11:16	64203	KINZ_T1	0	0	0	0	0	0	0.16	0.13	1	1	0	600	600	0
12/27/2024 11:18	55001	NEWP_T1	1	1	0	0.2	0.1	-0.1	-0.84	-0.79	1	1	0	600	600	0
12/27/2024 11:18	55002	NEWP_T1	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
12/27/2024 11:19	64201	KINZ_T1	0	0	0	0	0	0	-0.28	-0.26	3	3	0	1500	1500	0
12/27/2024 11:19	64202	KINZ_T1	3	3	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
12/27/2024 11:19	64204	KINZ_T1	13	19	6	0.39	0.53	0.14	0	0	0	0	0	0	0	0
12/27/2024 11:20	57201	ROSS_T1	0	35	35	0	0.18	0.18	-0.87	-1	0	0	0	0	0	0
12/27/2024 11:21	65207	PRIN_T4	2	2	0	1.8	0.5	-1.3	0	0	1	1	0	1200	1200	0
12/27/2024 11:21	65206	PRIN_T4	8	2	-6	0.1	1.35	1.25	0	0	0	0	0	0	0	0
12/27/2024 11:22	55001	NEWP_T1	1	1	0	0.2	0.1	-0.1	-0.79	-0.8	1	1	0	600	600	0
12/27/2024 11:22	55002	NEWP_T1	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
12/27/2024 11:24	46004	BERW_T2	3	4	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/27/2024 11:24	46002	BERW_T2	0	0	0	0	0	0	-0.79	-0.82	1	1	0	900	900	0
12/27/2024 11:26	49803	UNIV_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
12/27/2024 11:26	49804	UNIV_T1	0	1	1	0	0	0	0.59	0.52	0	0	0	0	0	0
12/27/2024 11:27	45501	DERR_T2	0	0	0	0	0	0	0.44	0.44	2	2	0	1800	1800	0
12/27/2024 11:31	45501	DERR_T2	0	0	0	0	0	0	0.44	0.44	2	2	0	1800	1800	0
12/27/2024 11:31	52001	LING_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
12/27/2024 11:33	52004	LING_T2	2	2	0	6.25	6.4	0.15	0.23	0.23	0	0	0	0	0	0
12/27/2024 11:33	52002	LING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/27/2024 11:33	65303	NBRI_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
12/27/2024 11:33	52006	LING_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
12/27/2024 11:34	64801	MONE_T2	10	33	23	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
12/27/2024 11:34	64802	MONE_T2	41	114	73	0.2	0.24	0.04	0	0	0	0	0	0	0	0
12/27/2024 11:35	64801	MONE_T2	10	33	23	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
12/27/2024 11:35	64802	MONE_T2	41	114	73	0.2	0.24	0.04	0.29	0.14	0	0	0	0	0	0
12/27/2024 11:36	64802	MONE_T2	41	114	73	0.2	0.24	0.04	0	0	0	0	0	0	0	0
12/27/2024 11:36	64303	LINC_T1	0	0	0	0	0	0	-0.23	-0.14	0	0	0	0	0	0
12/27/2024 11:36	64305	LINC_T1	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
12/27/2024 11:36	64801	MONE_T2	10	33	23	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
12/27/2024 11:38	44901	SCOT_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/27/2024 11:38	44902	SCOT_T2	0	0	0	0	0	0	-0.92	-0.94	0	0	0	0	0	0
12/27/2024 11:42	17401	FOHI_T1	0	0	0	0	0	0	-2.1	-2.12	0	0	0	0	0	0
12/27/2024 11:43	40802	EXCH_T2	0	2	2	0	0.15	0.15	-0.44	-0.49	0	0	0	0	0	0
12/27/2024 11:43	40801	EXCH_T2	2	3	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/27/2024 11:44	40801	EXCH_T2	2	3	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/27/2024 11:44	40802	EXCH_T2	0	2	2	0	0.15	0.15	-0.44	-0.49	0	0	0	0	0	0
12/27/2024 11:44	24101	EHAZ_T1	27	27	0	0.83	1.46	0.63	0	0	0	0	0	0	0	0
12/27/2024 11:44	14204	EALL_T2	0	0	0	0	0	0	-0.42	-0.39	0	0	0	0	0	0
12/27/2024 11:44	24104	EHAZ_T1	0	0	0	0	0	0	-0.84	-0.84	1	1	0	1200	1200	0
12/27/2024 11:44	24102	EHAZ_T1	3	1	-2	0.83	0.2	-0.63	0	0	0	0	0	0	0	0
12/27/2024 11:44	24105	EHAZ_T1	24	28	4	1.5	1.84	0.34	0	0	0	0	0	0	0	0
12/27/2024 11:45	20601	GRWO_T2	3	4	1	2.47	1.68	-0.79	0.57	0.54	0	0	0	0	0	0
12/27/2024 11:45	20603	GRWO_T2	0	6	6	0	0.16	0.16	0	0	0	0	0	0	0	0
12/27/2024 11:46	44502	HAMI_T2	2	2	0	1.6	2	0.4	0	0	0	0	0	0	0	0
12/27/2024 11:46	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/27/2024 11:47	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/27/2024 11:47	52402	GRPA_T2	4	10	6	0.78	0.49	-0.29	0	0	0	0	0	0	0	0
12/27/2024 11:47	52404	GRPA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/27/2024 11:47	52403	GRPA_T2	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
12/27/2024 11:47	44502	HAMI_T2	2	2	0	1.6	2	0.4	0	0	0	0	0	0	0	0
12/27/2024 11:47	52401	GRPA_T2	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
12/27/2024 11:48	46504	LOHA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/27/2024 11:48	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
12/27/2024 11:48	46506	LOHA_T1	3	3	0	2	2.47	0.47	0	0	0	0	0	0	0	0
12/27/2024 11:48	46501	LOHA_T1	1	2	1	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
12/27/2024 11:49	44502	HAMI_T2	2	2	0	1.6	2	0.4	0	0	0	0	0	0	0	0
12/27/2024 11:49	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 11:49	46501	LOHA_T1	1	2	1	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
12/27/2024 11:49	46504	LOHA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/27/2024 11:49	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
12/27/2024 11:49	46506	LOHA_T1	3	3	0	2	2.47	0.47	0	0	0	0	0	0	0	0
12/27/2024 11:50	57205	ROSS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/27/2024 11:50	57203	ROSS_T1	0	0	0	0	0	0	0.65	0.59	0	0	0	0	0	0
12/27/2024 11:50	57201	ROSS_T1	34	38	4	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
12/27/2024 11:50	64101	REFR_T1	1	1	0	0.1	0.1	0	-0.01	-0.02	0	0	0	0	0	0
12/27/2024 11:51	64101	REFR_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/27/2024 11:52	14704	TREX_T1	1	1	0	7.4	7.2	-0.2	0	0	0	0	0	0	0	0
12/27/2024 11:52	14705	TREX_T1	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
12/27/2024 11:53	61701	ELIZ_T1	1	1	0	5.5	5.5	0	0.28	0.42	0	0	0	0	0	0
12/27/2024 11:53	61703	ELIZ_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/27/2024 11:54	64305	LINC_T1	2	2	0	0.5	0.6	0.1	-0.37	-0.54	0	0	0	0	0	0
12/27/2024 11:55	44905	SCOT_T1	4	0	-4	3.9	0	-3.9	0	0	0	0	0	0	0	0
12/27/2024 11:55	60803	BUCK_T1	8	8	0	0.2	0.29	0.09	-0.47	-0.48	1	1	0	600	600	0
12/27/2024 11:55	60801	BUCK_T1	1	9	8	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
12/27/2024 11:58	60801	BUCK_T1	1	9	8	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
12/27/2024 11:58	62607	ENGL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/27/2024 11:58	60803	BUCK_T1	8	8	0	0.2	0.29	0.09	-1.41	-1.44	3	3	0	1800	1800	0
12/27/2024 11:58	62605	ENGL_T1	8	2	-6	0.19	0.15	-0.04	0	0	0	0	0	0	0	0
12/27/2024 11:58	62606	ENGL_T1	59	28	-31	0.11	0.1	-0.01	-1.44	-1.47	1	1	0	900	900	0
12/27/2024 11:59	61103	BERK_T5	0	2	2	0	0.1	0.1	0.12	0.11	0	0	0	0	0	0
12/27/2024 11:59	60801	BUCK_T1	1	9	8	0.4	0.27	-0.13	-0.02	-0.1	0	0	0	0	0	0
12/27/2024 11:59	60803	BUCK_T1	8	8	0	0.2	0.29	0.09	-0.47	-0.48	1	1	0	600	600	0
12/27/2024 11:59	61101	BERK_T5	2	5	3	0.15	0.24	0.09	0	0	0	0	0	0	0	0
12/27/2024 12:00	61101	BERK_T5	5	3	-2	0.24	0.15	-0.09	-0.62	-0.63	0	0	0	0	0	0
12/27/2024 12:00	20601	GRWO_T2	4	4	0	1.73	1.45	-0.28	0	0	0	0	0	0	0	0
12/27/2024 12:00	20603	GRWO_T2	4	6	2	0.1	0.15	0.05	-0.54	-0.54	1	1	0	900	900	0
12/27/2024 12:00	61103	BERK_T5	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/27/2024 12:02	61103	BERK_T5	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/27/2024 12:02	61101	BERK_T5	5	3	-2	0.24	0.15	-0.09	-0.62	-0.63	0	0	0	0	0	0
12/27/2024 12:04	53802	MBRG_T2	0	0	0	0	0	0	0.7	0.76	0	0	0	0	0	0
12/27/2024 12:04	53803	MBRG_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/27/2024 12:04	46101	MACI_T2	0	0	0	0	0	0	0.28	0.28	1	1	0	1200	1200	0
12/27/2024 12:05	61101	BERK_T5	5	3	-2	0.24	0.15	-0.09	-0.62	-0.63	0	0	0	0	0	0
12/27/2024 12:05	61103	BERK_T5	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/27/2024 12:06	64702	LITI_T2	0	0	0	0	0	0	-0.94	-0.96	0	0	0	0	0	0
12/27/2024 12:08	43801	SWIL_T1	2	2	0	2.65	3	0.35	0	0	0	0	0	0	0	0
12/27/2024 12:08	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 12:10	42501	ALTA_T2	3	12	9	0.1	0.14	0.04	0.04	0.04	1	1	0	600	600	0
12/27/2024 12:10	42503	ALTA_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/27/2024 12:10	42504	ALTA_T2	2	3	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
12/27/2024 12:11	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 12:11	46102	MACI_T1	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
12/27/2024 12:11	66505	SMAN_T2	3	3	0	0.23	0.43	0.2	0	0	0	0	0	0	0	0
12/27/2024 12:11	66504	SMAN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/27/2024 12:11	66502	SMAN_T2	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/27/2024 12:11	60803	BUCK_T1	5	23	18	0.18	0.34	0.16	0	0	0	0	0	0	0	0
12/27/2024 12:11	60801	BUCK_T1	1	38	37	0.6	0.32	-0.28	-0.1	-0.17	0	0	0	0	0	0
12/27/2024 12:13	24702	FLND_T2	0	0	0	0	0	0	0.11	0.07	1	1	0	1200	1200	0
12/27/2024 12:13	24703	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 12:14	41301	FISH_T1	5	64	59	1.08	0.2	-0.88	-0.38	-0.38	0	0	0	0	0	0
12/27/2024 12:14	60801	BUCK_T1	1	38	37	0.6	0.32	-0.28	-0.21	-0.34	0	0	0	0	0	0
12/27/2024 12:14	41305	FISH_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
12/27/2024 12:14	60803	BUCK_T1	5	23	18	0.18	0.34	0.16	0	0	0	0	0	0	0	0
12/27/2024 12:15	41301	FISH_T1	56	58	2	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/27/2024 12:15	41305	FISH_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
12/27/2024 12:18	62606	ENGL_T1	24	65	41	0.1	0.22	0.12	0	0	0	0	0	0	0	0
12/27/2024 12:18	41305	FISH_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
12/27/2024 12:18	41301	FISH_T1	56	58	2	0.18	0.2	0.02	-0.38	-0.38	0	0	0	0	0	0
12/27/2024 12:18	62607	ENGL_T1	0	1	1	0	0.2	0.2	-0.72	-0.71	0	0	0	0	0	0
12/27/2024 12:18	62605	ENGL_T1	2	5	3	0.15	0.2	0.05	0	0	0	0	0	0	0	0
12/27/2024 12:19	62605	ENGL_T1	2	5	3	0.15	0.2	0.05	-1.18	-1.18	0	0	0	0	0	0
12/27/2024 12:19	62607	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/27/2024 12:19	62606	ENGL_T1	24	65	41	0.1	0.22	0.12	0	0	0	0	0	0	0	0
12/27/2024 12:20	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 12:29	41801	GOCI_T2	5	24	19	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
12/27/2024 12:30	48901	FOSP_T2	0	1	1	0	0	0	0.93	0.98	0	0	0	0	0	0
12/27/2024 12:30	11302	EMMA_T1	8	13	5	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
12/27/2024 12:30	11301	EMMA_T1	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
12/27/2024 12:30	11303	EMMA_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
12/27/2024 12:30	22602	KIMB_T1	0	0	0	0	0	0	0.23	0.26	0	0	0	0	0	0
12/27/2024 12:30	48902	FOSP_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
12/27/2024 12:31	62607	ENGL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/27/2024 12:31	48901	FOSP_T2	0	1	1	0	0	0	0.46	0.49	0	0	0	0	0	0
12/27/2024 12:31	62605	ENGL_T1	4	3	-1	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
12/27/2024 12:31	62606	ENGL_T1	65	62	-3	0.2	0.13	-0.07	-1.46	-1.46	1	1	0	900	900	0
12/27/2024 12:31	48902	FOSP_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
12/27/2024 12:32	57106	SPHI_T2	3	3	0	1.8	1.97	0.17	0	0	0	0	0	0	0	0
12/27/2024 12:32	62605	ENGL_T1	4	3	-1	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
12/27/2024 12:32	57104	SPHI_T2	3	2	-1	1.07	2.3	1.23	-1.78	-1.8	1	1	0	900	900	0
12/27/2024 12:32	62606	ENGL_T1	65	62	-3	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
12/27/2024 12:32	57101	SPHI_T2	6	6	0	0.43	0.77	0.34	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/27/2024 12:32	57702	PAXT_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
12/27/2024 12:32	22602	KIMB_T1	0	0	0	0	0	0	0.23	0.26	0	0	0	0	0	0
12/27/2024 12:32	62607	ENGL_T1	1	1	0	0.2	0.2	0	-1.42	-1.4	0	0	0	0	0	0
12/27/2024 12:32	48901	FOSP_T2	0	1	1	0	0	0	0.46	0.49	0	0	0	0	0	0
12/27/2024 12:32	48902	FOSP_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
12/27/2024 12:36	60201	ATGL_T2	40	46	6	0.22	0.22	0	-0.23	-0.14	0	0	0	0	0	0
12/27/2024 12:37	54601	SUMM_T2	7	6	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
12/27/2024 12:37	66505	SMAN_T2	3	3	0	0.43	0.77	0.34	0	0	0	0	0	0	0	0
12/27/2024 12:37	54203	PENN_T1	18	19	1	1.54	1.3	-0.24	0	0	0	0	0	0	0	0
12/27/2024 12:37	54602	SUMM_T2	1	0	-1	0.1	0	-0.1	-2.36	-2.44	1	1	0	600	600	0
12/27/2024 12:37	66502	SMAN_T2	4	13	9	0.13	0.36	0.23	0	0	0	0	0	0	0	0
12/27/2024 12:37	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 12:37	66504	SMAN_T2	0	7	7	0	0.17	0.17	0	0	0	0	0	0	0	0
12/27/2024 12:37	54201	PENN_T1	9	10	1	0.68	0.73	0.05	0.87	0.87	0	0	0	0	0	0
12/27/2024 12:38	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 12:38	54505	ENOL_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
12/27/2024 12:38	66505	SMAN_T2	3	3	0	0.43	0.77	0.34	0	0	0	0	0	0	0	0
12/27/2024 12:38	66502	SMAN_T2	4	13	9	0.13	0.36	0.23	0.05	0.08	0	0	0	0	0	0
12/27/2024 12:38	54501	ENOL_T2	0	0	0	0	0	0	-0.5	-0.52	1	1	0	600	600	0
12/27/2024 12:38	66504	SMAN_T2	0	7	7	0	0.17	0.17	-0.54	-0.52	0	0	0	0	0	0
12/27/2024 12:38	54502	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/27/2024 12:39	54602	SUMM_T2	1	0	-1	0.1	0	-0.1	-2.36	-2.44	1	1	0	600	600	0
12/27/2024 12:39	66504	SMAN_T2	0	7	7	0	0.17	0.17	0	0	0	0	0	0	0	0
12/27/2024 12:39	66503	SMAN_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
12/27/2024 12:39	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 12:39	66505	SMAN_T2	3	3	0	0.43	0.77	0.34	0	0	0	0	0	0	0	0
12/27/2024 12:39	54601	SUMM_T2	7	6	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
12/27/2024 12:39	66502	SMAN_T2	4	13	9	0.13	0.36	0.23	0.05	0.08	0	0	0	0	0	0
12/27/2024 12:40	66504	SMAN_T2	0	7	7	0	0.17	0.17	-0.54	-0.52	0	0	0	0	0	0
12/27/2024 12:40	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 12:40	66505	SMAN_T2	3	3	0	0.43	0.77	0.34	0	0	0	0	0	0	0	0
12/27/2024 12:40	66502	SMAN_T2	4	13	9	0.13	0.36	0.23	0.05	0.08	0	0	0	0	0	0
12/27/2024 12:41	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 12:41	54501	ENOL_T2	0	0	0	0	0	0	-0.5	-0.52	1	1	0	600	600	0
12/27/2024 12:41	54502	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/27/2024 12:41	66504	SMAN_T2	0	7	7	0	0.17	0.17	-0.54	-0.52	0	0	0	0	0	0
12/27/2024 12:41	66502	SMAN_T2	4	13	9	0.13	0.36	0.23	0	0	0	0	0	0	0	0
12/27/2024 12:41	54505	ENOL_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
12/27/2024 12:41	66505	SMAN_T2	3	3	0	0.43	0.77	0.34	0	0	0	0	0	0	0	0
12/27/2024 12:42	10702	CATA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/27/2024 12:42	10703	CATA_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
12/27/2024 12:42	16102	BING_T2	0	2	2	0	0.1	0.1	0.06	0.05	0	0	0	0	0	0
12/27/2024 12:42	10705	CATA_T2	1	1	0	1.5	0.1	-1.4	-0.82	-0.78	1	1	0	900	900	0
12/27/2024 12:49	40101	HUNT_T2	379	290	-89	0.95	0.77	-0.18	-2.73	-2.68	0	0	0	0	0	0
12/27/2024 12:54	43304	WATS_T2	1	3	2	0.3	1.1	0.8	0	0	0	0	0	0	0	0
12/27/2024 12:57	43304	WATS_T2	1	3	2	0.3	1.1	0.8	0	0	0	0	0	0	0	0
12/27/2024 12:58	60902	DONG_T2	2	2	0	0.25	0.15	-0.1	0.61	0.67	0	0	0	0	0	0
12/27/2024 12:58	11302	EMMA_T1	13	9	-4	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
12/27/2024 12:58	10705	CATA_T2	0	1	1	0	1.3	1.3	-1.57	-1.7	2	2	0	1800	1800	0
12/27/2024 12:58	60901	DONG_T2	2	1	-1	0.45	0.7	0.25	0	0	0	0	0	0	0	0
12/27/2024 12:58	10703	CATA_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
12/27/2024 12:58	10702	CATA_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/27/2024 12:58	11303	EMMA_T1	1	3	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
12/27/2024 13:04	46506	LOHA_T1	4	4	0	1.8	2.05	0.25	0	0	0	0	0	0	0	0
12/27/2024 13:04	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
12/27/2024 13:07	57205	ROSS_T1	1	117	116	0.7	0.12	-0.58	-0.13	-0.13	0	0	0	0	0	0
12/27/2024 13:07	57201	ROSS_T1	48	92	44	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/27/2024 13:11	52403	GRPA_T2	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
12/27/2024 13:11	52402	GRPA_T2	4	3	-1	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
12/27/2024 13:11	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 13:12	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 13:12	64101	REIR_T1	1	1	0	0.1	0.3	0.2	-0.03	-0.04	0	0	0	0	0	0
12/27/2024 13:13	53501	EVIL_T2	2	2	0	0.45	0.85	0.4	-1.57	-1.55	2	2	0	1200	1200	0
12/27/2024 13:13	53502	EVIL_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
12/27/2024 13:14	53501	EVIL_T2	2	2	0	0.45	0.85	0.4	-0.78	-0.78	1	1	0	600	600	0
12/27/2024 13:14	53502	EVIL_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
12/27/2024 13:15	53502	EVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/27/2024 13:15	53501	EVIL_T2	2	2	0	0.6	0.85	0.25	-1.57	-1.55	2	2	0	1200	1200	0
12/27/2024 13:16	62606	ENGL_T1	58	90	32	0.13	0.26	0.13	0	0	0	0	0	0	0	0
12/27/2024 13:16	62601	ENGL_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
12/27/2024 13:16	62605	ENGL_T1	2	13	11	0.35	0.13	-0.22	0	0	0	0	0	0	0	0
12/27/2024 13:17	47101	MARL_T1	13	7	-6	1.12	1.25	0.13	0	0	0	0	0	0	0	0
12/27/2024 13:17	52002	LING_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
12/27/2024 13:17	52006	LING_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
12/27/2024 13:17	52004	LING_T2	2	2	0	6.55	6.6	0.05	0.17	0.19	0	0	0	0	0	0
12/27/2024 13:17	47104	MARL_T1	0	0	0	0	0	0	-0.35	-0.32	0	0	0	0	0	0
12/27/2024 13:20	64204	KINZ_T1	17	52	35	0.29	0.46	0.17	0	0	0	0	0	0	0	0
12/27/2024 13:20	64202	KINZ_T1	0	3	3	0	0.3	0.3	0.71	0.7	0	0	0	0	0	0
12/27/2024 13:23	57201	ROSS_T1	77	93	16	0.25	0.27	0.02	0	0	0	0	0	0	0	0
12/27/2024 13:23	57203	ROSS_T1	0	0	0	0	0	0	0.58	0.49	0	0	0	0	0	0
12/27/2024 13:23	57205	ROSS_T1	6	131	125	0.23	0.12	-0.11	0	0	0	0	0	0	0	0
12/27/2024 13:23	61701	ELIZ_T1	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
12/27/2024 13:23	61703	ELIZ_T1	0	0	0	0	0	0	-1.89	-1.93	1	1	0	900	900	0
12/27/2024 13:25	42802	SELI_T1	0	0	0	0	0	0	-1.7	-1.66	0	0	0	0	0	0
12/27/2024 13:25	57205	ROSS_T1	6	131	125	0.23	0.12	-0.11	-0.13	-0.15	0	0	0	0	0	0
12/27/2024 13:25	57201	ROSS_T1	77	93	16	0.25	0.27	0.02	0	0	0	0	0	0	0	0
12/27/2024 13:26	10702	CATA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/27/2024 13:26	10703	CATA_T2	1	2	1	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
12/27/2024 13:26	10705	CATA_T2	1	1	0	1.3	1	-0.3	-0.87	-0.88	1	1	0	900	900	0
12/27/2024 13:27	60101	COCA_T1	1	1	0	0.2	0.2	0	0.35	0.35	0	0	0	0	0	0
12/27/2024 13:28	10703	CATA_T2	1	2	1	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
12/27/2024 13:28	10707	CATA_T2	0	0	0	0	0	0	1.21	1.16	0	0	0	0	0	0
12/27/2024 13:28	10702	CATA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/27/2024 13:28	10705	CATA_T2	1	1	0	1.3	1	-0.3	-0.87	-0.88	1	1	0	900	900	0
12/27/2024 13:28	60101	COCA_T1	1	1	0	0.2	0.2	0	0.35	0.35	0	0	0	0	0	0
12/27/2024 13:29	62106	ELAN_T1	1	1	0	0.6	0.5	-0.1	0	-0.01	0	0	0	0	0	0
12/27/2024 13:30	40602	PIGR_T1	4	6	2	0.73	0.53	-0.2	0	0	0	0	0	0	0	0
12/27/2024 13:30	10703	CATA_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
12/27/2024 13:30	10702	CATA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/27/2024 13:30	10705	CATA_T2	1	1	0	1	1	0	-0.87	-0.88	1	1	0	900	900	0
12/27/2024 13:30	40601	PIGR_T1	18	36	18	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
12/27/2024 13:30	10707	CATA_T2	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
12/27/2024 13:31	63801	HEMP_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/27/2024 13:31	63804	HEMP_T1	1	1	0	6.3	5.9	-0.4	0.91	0.93	0	0	0	0	0	0
12/27/2024 13:31	63803	HEMP_T1	2	3	1	0.25	0.2	-0.05	0.14	0.13	0	0	0	0	0	0
12/27/2024 13:33	63804	HEMP_T1	1	1	0	6.3	5.9	-0.4	0	0	0	0	0	0	0	0
12/27/2024 13:33	58401	MORO_T1	0	0	0	0	0	0	-0.99	-1.02	1	1	0	600	600	0
12/27/2024 13:33	63803	HEMP_T1	2	3	1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
12/27/2024 13:33	63801	HEMP_T1	1	1	0	0.3	0.2	-0.1	0.21	0.22	0	0	0	0	0	0
12/27/2024 13:35	58401	MORO_T1	0	0	0	0	0	0	-0.99	-1.02	1	1	0	600	600	0
12/27/2024 13:36	64202	KINZ_T1	2	3	1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
12/27/2024 13:36	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 13:36	64204	KINZ_T1	49	50	1	0.47	0.44	-0.03	0	0	0	0	0	0	0	0
12/27/2024 13:36	60201	ATGL_T2	44	93	49	0.2	0.29	0.09	-0.11	-0.14	0	0	0	0	0	0
12/27/2024 13:37	66501	SMAN_T2	5	4	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/27/2024 13:37	66502	SMAN_T2	17	11	-6	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
12/27/2024 13:37	57205	ROSS_T1	115	95	-20	0.12	0.12	0	0	0	0	0	0	0	0	0
12/27/2024 13:37	66504	SMAN_T2	3	3	0	0.2	0.17	-0.03	-0.5	-0.48	0	0	0	0	0	0
12/27/2024 13:37	57201	ROSS_T1	83	103	20	0.24	0.26	0.02	0	0	0	0	0	0	0	0
12/27/2024 13:37	66505	SMAN_T2	3	3	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
12/27/2024 13:38	66502	SMAN_T2	17	11	-6	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
12/27/2024 13:38	66501	SMAN_T2	5	4	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/27/2024 13:38	66505	SMAN_T2	3	3	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
12/27/2024 13:38	66504	SMAN_T2	3	3	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
12/27/2024 13:39	66502	SMAN_T2	17	11	-6	0.34	0.32	-0.02	0.11	0.09	0	0	0	0	0	0
12/27/2024 13:39	66501	SMAN_T2	5	4	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/27/2024 13:39	66505	SMAN_T2	3	3	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
12/27/2024 13:39	66504	SMAN_T2	3	3	0	0.2	0.17	-0.03	-0.5	-0.48	0	0	0	0	0	0
12/27/2024 13:40	10109	ALLE_T3	1	9	8	1.4	0.83	-0.57	0	0	0	0	0	0	0	0
12/27/2024 13:40	66502	SMAN_T2	17	11	-6	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
12/27/2024 13:40	66501	SMAN_T2	5	4	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/27/2024 13:40	10105	ALLE_T3	16	17	1	1.06	1.7	0.64	0	0	0	0	0	0	0	0
12/27/2024 13:40	66505	SMAN_T2	3	3	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
12/27/2024 13:40	10103	ALLE_T3	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/27/2024 13:40	10101	ALLE_T3	59	55	-4	0.63	0.76	0.13	0	0	0	0	0	0	0	0
12/27/2024 13:40	66504	SMAN_T2	3	3	0	0.2	0.17	-0.03	-1	-0.97	0	0	0	0	0	0
12/27/2024 13:40	10107	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 13:40	10205	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 13:42	60101	COCA_T1	1	1	0	0.2	0.1	-0.1	0.35	0.46	0	0	0	0	0	0
12/27/2024 13:42	66501	SMAN_T2	5	4	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/27/2024 13:42	66504	SMAN_T2	3	3	0	0.2	0.17	-0.03	-1	-0.97	0	0	0	0	0	0
12/27/2024 13:42	66502	SMAN_T2	17	11	-6	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
12/27/2024 13:42	66505	SMAN_T2	3	3	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
12/27/2024 13:42	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 13:44	60101	COCA_T1	1	1	0	0.2	0.1	-0.1	0.35	0.46	0	0	0	0	0	0
12/27/2024 13:44	10801	CHHI_T1	0	3	3	0	0.27	0.27	-1.44	-1.53	2	2	0	1500	1500	0
12/27/2024 13:45	60801	BUCK_T1	74	72	-2	0.51	0.53	0.02	-0.2	-0.19	0	0	0	0	0	0
12/27/2024 13:45	60803	BUCK_T1	22	26	4	0.58	0.52	-0.06	0	0	0	0	0	0	0	0
12/27/2024 13:45	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 13:45	62102	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 13:45	60101	COCA_T1	1	1	0	0.1	0.1	0	0.35	0.46	0	0	0	0	0	0
12/27/2024 13:45	62106	ELAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/27/2024 13:45	62104	ELAN_T1	0	0	0	0	0	0	0.98	0.94	1	1	0	1200	1200	0
12/27/2024 13:45	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 13:46	60803	BUCK_T1	22	26	4	0.58	0.52	-0.06	0	0	0	0	0	0	0	0
12/27/2024 13:46	62102	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 13:46	60801	BUCK_T1	74	72	-2	0.51	0.53	0.02	-0.2	-0.19	0	0	0	0	0	0
12/27/2024 13:46	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 13:46	62106	ELAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/27/2024 13:46	62104	ELAN_T1	0	0	0	0	0	0	0.98	0.94	1	1	0	1200	1200	0
12/27/2024 13:46	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 13:46	60101	COCA_T1	1	1	0	0.1	0.1	0	0.35	0.46	0	0	0	0	0	0
12/27/2024 13:47	62605	ENGL_T1	12	46	34	0.13	0.13	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/27/2024 13:47	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 13:47	62606	ENGL_T1	90	113	23	0.29	0.29	0	0	0	0	0	0	0	0	0
12/27/2024 13:47	62102	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 13:47	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 13:47	62104	ELAN_T1	0	0	0	0	0	0	0.98	0.94	1	1	0	1200	1200	0
12/27/2024 13:47	62106	ELAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/27/2024 13:47	62607	ENGL_T1	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
12/27/2024 13:48	62106	ELAN_T1	0	1	1	0	0.3	0.3	-0.01	-0.02	0	0	0	0	0	0
12/27/2024 13:48	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 13:48	63803	HEMP_T1	3	5	2	0.17	0.22	0.05	0	0	0	0	0	0	0	0
12/27/2024 13:48	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 13:48	10705	CATA_T2	1	1	0	1	0.1	-0.9	-0.88	-0.89	1	1	0	900	900	0
12/27/2024 13:48	10703	CATA_T2	2	1	-1	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
12/27/2024 13:48	63801	HEMP_T1	1	2	1	0.2	0.3	0.1	0.22	0.16	0	0	0	0	0	0
12/27/2024 13:48	10702	CATA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/27/2024 13:48	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
12/27/2024 13:48	62102	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 13:52	21702	SUBU_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 13:52	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 13:52	21701	SUBU_T1	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
12/27/2024 13:52	21705	SUBU_T1	2	2	0	2.95	3.05	0.1	0	0	0	0	0	0	0	0
12/27/2024 13:53	52502	PROG_T2	0	0	0	0	0	0	0.36	-0.58	0	1	1	0	900	900
12/27/2024 13:53	57203	ROSS_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
12/27/2024 13:53	57201	ROSS_T1	85	101	16	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
12/27/2024 13:53	57205	ROSS_T1	89	55	-34	0.12	0.13	0.01	0	0	0	0	0	0	0	0
12/27/2024 13:53	54601	SUMM_T2	6	7	1	0.52	0.37	-0.15	0	0	0	0	0	0	0	0
12/27/2024 13:53	54603	SUMM_T2	0	0	0	0	0	0	-0.39	-0.32	1	1	0	900	900	0
12/27/2024 13:55	54601	SUMM_T2	6	7	1	0.52	0.37	-0.15	0	0	0	0	0	0	0	0
12/27/2024 13:55	54603	SUMM_T2	0	0	0	0	0	0	-0.39	-0.32	1	1	0	900	900	0
12/27/2024 14:02	62605	ENGL_T1	39	44	5	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
12/27/2024 14:02	62606	ENGL_T1	107	104	-3	0.3	0.3	0	0	0	0	0	0	0	0	0
12/27/2024 14:02	62602	ENGL_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
12/27/2024 14:04	58401	MORO_T1	0	0	0	0	0	0	-1	-1.04	1	1	0	600	600	0
12/27/2024 14:06	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 14:17	46506	LOHA_T1	4	4	0	2.33	2.65	0.32	0	0	0	0	0	0	0	0
12/27/2024 14:17	46501	LOHA_T1	1	1	0	0.8	0.4	-0.4	-0.31	-0.3	1	1	0	1200	1200	0
12/27/2024 14:18	63801	HEMP_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
12/27/2024 14:18	58402	MORO_T1	0	0	0	0	0	0	-0.53	-0.56	2	2	0	1500	1500	0
12/27/2024 14:18	63803	HEMP_T1	5	5	0	0.22	0.18	-0.04	0.3	0.26	0	0	0	0	0	0
12/27/2024 14:18	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
12/27/2024 14:19	58402	MORO_T1	0	0	0	0	0	0	-0.53	-0.56	2	2	0	1500	1500	0
12/27/2024 14:20	63802	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 14:20	63801	HEMP_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
12/27/2024 14:20	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
12/27/2024 14:20	63803	HEMP_T1	5	5	0	0.22	0.18	-0.04	0.15	0.13	0	0	0	0	0	0
12/27/2024 14:24	60201	ATGL_T2	79	100	21	0.25	0.27	0.02	-0.16	-0.14	0	0	0	0	0	0
12/27/2024 14:35	44201	POIN_T1	38	98	60	0.15	0.26	0.11	-2.1	-2.1	2	2	0	2100	2100	0
12/27/2024 14:37	44901	SCOT_T2	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
12/27/2024 14:37	44201	POIN_T1	38	98	60	0.15	0.26	0.11	-2.1	-2.09	2	2	0	2100	2100	0
12/27/2024 14:38	43301	WATS_T2	0	0	0	0	0	0	-0.22	-0.32	0	0	0	0	0	0
12/27/2024 14:38	43304	WATS_T2	2	3	1	0.55	0	-0.55	0	0	0	0	0	0	0	0
12/27/2024 14:38	44201	POIN_T1	38	98	60	0.15	0.26	0.11	-2.1	-2.09	2	2	0	2100	2100	0
12/27/2024 14:42	11303	EMMA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/27/2024 14:42	11301	EMMA_T1	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
12/27/2024 14:42	11302	EMMA_T1	5	17	12	0.14	0.18	0.04	0	0	0	0	0	0	0	0
12/27/2024 14:46	66503	SMAN_T2	0	0	0	0	0	0	0.3	0.37	0	0	0	0	0	0
12/27/2024 14:46	66505	SMAN_T2	3	3	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
12/27/2024 14:46	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/27/2024 14:46	60102	COCA_T1	0	0	0	0	0	0	-0.45	-0.87	2	2	0	1200	1200	0
12/27/2024 14:49	57201	ROSS_T1	66	86	20	0.21	0.22	0.01	0	0	0	0	0	0	0	0
12/27/2024 14:49	57205	ROSS_T1	11	91	80	0.14	0.11	-0.03	-0.15	-0.13	0	0	0	0	0	0
12/27/2024 14:50	43202	MVIL_T2	49	39	-10	0.33	0.23	-0.1	-0.54	-0.57	0	0	0	0	0	0
12/27/2024 14:50	44201	POIN_T1	69	99	30	0.2	0.26	0.06	-2.1	-2.09	2	2	0	2100	2100	0
12/27/2024 14:51	44201	POIN_T1	69	99	30	0.2	0.26	0.06	-2.1	-2.09	2	2	0	2100	2100	0
12/27/2024 14:52	43202	MVIL_T2	49	39	-10	0.33	0.23	-0.1	-0.57	-0.53	0	0	0	0	0	0
12/27/2024 14:54	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 14:54	54601	SUMM_T2	7	9	2	0.49	0.6	0.11	0	0	0	0	0	0	0	0
12/27/2024 14:54	44201	POIN_T1	69	99	30	0.2	0.26	0.06	-4.19	-4.29	4	4	0	4200	4200	0
12/27/2024 14:54	54602	SUMM_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 14:54	14801	TREI_T2	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
12/27/2024 14:55	44201	POIN_T1	69	99	30	0.2	0.26	0.06	-2.09	-2.15	2	2	0	2100	2100	0
12/27/2024 14:56	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 14:56	10206	ALLE_T2	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
12/27/2024 14:56	10102	ALLE_T2	44	44	0	3.16	3.42	0.26	0	0	0	0	0	0	0	0
12/27/2024 14:59	43301	WATS_T2	0	0	0	0	0	0	-0.32	-0.26	0	0	0	0	0	0
12/27/2024 14:59	43304	WATS_T2	3	2	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/27/2024 15:03	63802	HEMP_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
12/27/2024 15:03	63804	HEMP_T1	1	1	0	6	6.2	0.2	0	0	0	0	0	0	0	0
12/27/2024 15:12	10805	CHHI_T2	7	1	-6	1.36	7.7	6.34	-1.44	-1	1	1	0	600	600	0
12/27/2024 15:18	12401	MILF_T1	0	0	0	0	0	0	-0.58	-0.54	0	0	0	0	0	0
12/27/2024 15:18	12402	MILF_T1	8	8	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/27/2024 15:22	12402	MILF_T1	8	8	0	0.3	0.3	0	-1.33	-1.34	0	0	0	0	0	0
12/27/2024 15:24	63802	HEMP_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
12/27/2024 15:24	63804	HEMP_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
12/27/2024 15:26	44302	BEAV_T2	64	21	-43	0.26	0.13	-0.13	0.28	0.27	0	0	0	0	0	0
12/27/2024 15:26	44301	BEAV_T2	5	4	-1	0.88	1.45	0.57	0	0	0	0	0	0	0	0
12/27/2024 15:29	23403	HONE_T1	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
12/27/2024 15:35	57203	ROSS_T1	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
12/27/2024 15:35	57201	ROSS_T1	22	4	-18	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
12/27/2024 15:51	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.41	0	0	0	0	0	0
12/27/2024 15:52	42201	SHEN_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
12/27/2024 15:53	64904	MILL_T1	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
12/27/2024 15:54	13302	ORVI_T2	0	0	0	0	0	0	1.33	1.37	0	0	0	0	0	0
12/27/2024 15:57	29402	BELT_T1	41	45	4	0.49	0.46	-0.03	0	0	0	0	0	0	0	0
12/27/2024 16:10	60301	TWVA_T2	0	0	0	0	0	0	-3.3	-3.24	2	2	0	1800	1800	0
12/27/2024 16:10	13302	ORVI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 17:03	60803	BUCK_T1	1	1	0	0.1	0.1	0	-0.5	-0.49	1	1	0	600	600	0
12/27/2024 18:33	26704	HEML_T2	0	0	0	0	0	0	-0.8	-0.82	1	1	0	1200	1200	0
12/27/2024 18:35	26402	INOR_T1	0	0	0	0	0	0	-0.14	-0.2	1	1	0	600	600	0
12/27/2024 18:35	26401	INOR_T1	2	2	0	6.55	6.7	0.15	0	0	0	0	0	0	0	0
12/27/2024 18:36	24703	FLND_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/27/2024 18:36	24702	FLND_T2	0	13	13	0	0.57	0.57	-0.3	-0.22	1	1	0	1200	1200	0
12/27/2024 18:37	24202	PROV_T4	0	0	0	0	0	0	-0.84	-0.84	1	1	0	1200	1200	0
12/27/2024 18:38	47104	MARL_T1	0	0	0	0	0	0	-0.31	-0.38	0	0	0	0	0	0
12/27/2024 18:38	47101	MARL_T1	60	69	9	1.38	0.98	-0.4	0	0	0	0	0	0	0	0
12/27/2024 18:38	10705	CATA_T2	0	0	0	0	0	0	-0.78	-0.8	1	1	0	900	900	0
12/27/2024 18:39	47203	FAKO_T2	1	1	0	1.1	0.4	-0.7	-1.01	-1.01	0	0	0	0	0	0
12/27/2024 18:40	12402	MILF_T1	3	3	0	0.17	0.13	-0.04	-1.29	-1.29	0	0	0	0	0	0
12/27/2024 18:40	16101	BING_T2	0	0	0	0	0	0	0.58	0.54	0	0	0	0	0	0
12/27/2024 18:40	46004	BERW_T2	8	10	2	1.04	0.4	-0.64	0	0	0	0	0	0	0	0
12/27/2024 18:40	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:40	46002	BERW_T2	0	0	0	0	0	0	-1.26	-1.26	1	1	0	900	900	0
12/27/2024 18:40	16103	BING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/27/2024 18:40	29402	BELT_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
12/27/2024 18:41	61001	DONV_T1	0	0	0	0	0	0	-0.18	-0.22	0	0	0	0	0	0
12/27/2024 18:41	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:41	21705	SUBU_T1	2	2	0	3.9	3.8	-0.1	0	0	0	0	0	0	0	0
12/27/2024 18:41	21701	SUBU_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
12/27/2024 18:41	21702	SUBU_T1	9	9	0	1.01	0.33	-0.68	0	0	0	0	0	0	0	0
12/27/2024 18:42	10206	ALLE_T2	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
12/27/2024 18:42	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:42	10102	ALLE_T2	27	28	1	6.03	4.43	-1.6	0	0	0	0	0	0	0	0
12/27/2024 18:42	14704	TREX_T1	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
12/27/2024 18:42	13302	ORVI_T2	0	0	0	0	0	0	1.54	1.51	0	0	0	0	0	0
12/27/2024 18:42	14705	TREX_T1	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
12/27/2024 18:42	10801	CHHI_T1	1	1	0	0.4	0	-0.4	-2.07	-2.01	3	3	0	2100	2100	0
12/27/2024 18:42	10805	CHHI_T2	1	1	0	7.9	7.9	0	-1.04	-1.02	1	1	0	600	600	0
12/27/2024 18:42	11301	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:42	13303	ORVI_T1	0	0	0	0	0	0	0.68	0.71	0	0	0	0	0	0
12/27/2024 18:43	13503	MCMI_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
12/27/2024 18:43	26402	INOR_T1	0	0	0	0	0	0	-0.2	-0.19	1	1	0	600	600	0
12/27/2024 18:43	66504	SMAN_T2	0	0	0	0	0	0	-0.9	-0.98	0	0	0	0	0	0
12/27/2024 18:43	48902	FOSP_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/27/2024 18:43	66505	SMAN_T2	3	3	0	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
12/27/2024 18:43	26401	INOR_T1	2	2	0	6.55	6.7	0.15	0	0	0	0	0	0	0	0
12/27/2024 18:43	48901	FOSP_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
12/27/2024 18:44	29402	BELT_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
12/27/2024 18:44	14801	TREI_T2	0	1	1	0	0	0	1.42	1.45	0	0	0	0	0	0
12/27/2024 18:44	62101	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/27/2024 18:44	11301	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:44	10109	ALLE_T3	5	6	1	0.82	0.34	-0.48	0	0	0	0	0	0	0	0
12/27/2024 18:44	10101	ALLE_T3	27	84	57	1.6	1.22	-0.38	0	0	0	0	0	0	0	0
12/27/2024 18:44	62607	ENGL_T1	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
12/27/2024 18:44	10801	CHHI_T1	1	1	0	0.4	0	-0.4	-2.07	-2.01	3	3	0	2100	2100	0
12/27/2024 18:44	23403	HONE_T1	5	11	6	0.12	0.12	0	-0.68	-0.67	0	0	0	0	0	0
12/27/2024 18:44	42501	ALTA_T2	0	0	0	0	0	0	0.02	0.04	2	2	0	1200	1200	0
12/27/2024 18:44	10105	ALLE_T3	28	38	10	2.03	2.85	0.82	0	0	0	0	0	0	0	0
12/27/2024 18:44	10707	CATA_T2	0	0	0	0	0	0	1.17	1.12	0	0	0	0	0	0
12/27/2024 18:44	16103	BING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/27/2024 18:44	63501	HEID_TBK1-2	34	37	3	0.26	0.49	0.23	-0.45	-0.47	1	1	0	900	900	0
12/27/2024 18:44	10107	ALLE_T3	1	8	7	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/27/2024 18:44	65503	MOJO_T2	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
12/27/2024 18:44	10103	ALLE_T3	3	14	11	0.47	0.41	-0.06	0	0	0	0	0	0	0	0
12/27/2024 18:44	10705	CATA_T2	0	0	0	0	0	0	-1.56	-1.6	2	2	0	1800	1800	0
12/27/2024 18:44	42504	ALTA_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
12/27/2024 18:44	62104	ELAN_T1	0	0	0	0	0	0	0.82	0.83	1	1	0	1200	1200	0
12/27/2024 18:44	10205	ALLE_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:44	16102	BING_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
12/27/2024 18:44	17401	FOHI_T1	0	0	0	0	0	0	-2	-2.01	0	0	0	0	0	0
12/27/2024 18:44	44201	POIN_T1	6	2	-4	0.1	0.1	0	-2.21	-2.16	2	2	0	2100	2100	0
12/27/2024 18:44	22602	KIMB_T1	0	0	0	0	0	0	0.26	0.18	0	0	0	0	0	0
12/27/2024 18:45	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/27/2024 18:45	54602	SUMM_T2	0	0	0	0	0	0	-2.42	-2.37	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/27/2024 18:45	44201	POIN_T1	2	0	-2	0.1	0	-0.1	-2.21	-2.16	2	2	0	2100	2100	0
12/27/2024 18:45	20603	GRWO_T2	25	43	18	0.31	0.36	0.05	0	0	0	0	0	0	0	0
12/27/2024 18:45	67002	STHI_T2	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
12/27/2024 18:45	20601	GRWO_T2	0	1	1	0	0	0	-0.12	-0.12	0	0	0	0	0	0
12/27/2024 18:45	54601	SUMM_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/27/2024 18:46	13704	SCHN_T2	0	0	0	0	0	0	-0.85	-0.83	0	0	0	0	0	0
12/27/2024 18:46	45501	DERR_T2	5	4	-1	0.7	0.97	0.27	-0.67	-0.66	2	2	0	1800	1800	0
12/27/2024 18:46	41903	REED_T1	0	0	0	0	0	0	-0.5	-0.54	1	1	0	1200	1200	0
12/27/2024 18:46	46101	MACI_T2	0	0	0	0	0	0	-0.6	-0.6	1	1	0	1200	1200	0
12/27/2024 18:46	40802	EXCH_T2	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
12/27/2024 18:46	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:46	40601	PIGR_T1	6	3	-3	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
12/27/2024 18:46	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/27/2024 18:46	44201	POIN_T1	2	0	-2	0.1	0	-0.1	-2.21	-2.16	2	2	0	2100	2100	0
12/27/2024 18:46	41902	REED_T1	10	7	-3	0.69	0.37	-0.32	0	0	0	0	0	0	0	0
12/27/2024 18:46	43202	MVIL_T2	0	0	0	0	0	0	-0.61	-0.59	0	0	0	0	0	0
12/27/2024 18:46	40602	PIGR_T1	12	16	4	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
12/27/2024 18:46	61101	BERK_T5	0	0	0	0	0	0	-0.98	-0.96	0	0	0	0	0	0
12/27/2024 18:46	29402	BELT_T1	1	1	0	5.2	5.7	0.5	0	0	0	0	0	0	0	0
12/27/2024 18:46	63501	HEID_TBK1-2	34	38	4	0.52	0.47	-0.05	-0.9	-0.94	2	2	0	1800	1800	0
12/27/2024 18:46	65207	PRIN_T4	3	4	1	1.43	2.03	0.6	0	0	1	1	0	1200	1200	0
12/27/2024 18:46	41901	REED_T1	6	8	2	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
12/27/2024 18:46	10801	OHHI_T1	1	0	-1	0.9	0	-0.9	-2.07	-2.01	3	3	0	2100	2100	0
12/27/2024 18:46	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:46	42201	SHEN_T2	0	1	1	0	0	0	0.43	0.41	0	0	0	0	0	0
12/27/2024 18:46	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/27/2024 18:47	55508	HERS_T2	2	2	0	0.7	0.8	0.1	0	0	1	1	0	1200	1200	0
12/27/2024 18:47	62607	ENGL_T1	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
12/27/2024 18:47	60102	COCA_T1	0	0	0	0	0	0	-1.04	-0.7	2	2	0	1200	1200	0
12/27/2024 18:47	63501	HEID_TBK1-2	34	38	4	0.52	0.47	-0.05	-0.45	-0.47	1	1	0	900	900	0
12/27/2024 18:47	62605	ENGL_T1	0	0	0	0	0	0	-1.17	-1.17	0	0	0	0	0	0
12/27/2024 18:47	60101	COCA_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
12/27/2024 18:47	66505	SMAN_T2	3	3	0	0.37	0.57	0.2	0	0	0	0	0	0	0	0
12/27/2024 18:47	52502	PROG_T2	0	0	0	0	0	0	-0.5	-0.46	1	1	0	900	900	0
12/27/2024 18:47	66502	SMAN_T2	0	0	0	0	0	0	-0.12	-0.04	0	0	0	0	0	0
12/27/2024 18:47	48901	FOSP_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
12/27/2024 18:47	43801	SWIL_T1	2	2	0	3.2	3.15	-0.05	0	0	0	0	0	0	0	0
12/27/2024 18:47	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:48	41301	FISH_T1	1	1	0	2.6	2.5	-0.1	0	0	0	0	0	0	0	0
12/27/2024 18:48	67002	STHI_T2	0	0	0	0	0	0	3	3	0	0	0	0	0	0
12/27/2024 18:48	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:48	60803	BUCK_T1	2	3	1	0.1	0.13	0.03	-0.5	-0.51	1	1	0	600	600	0
12/27/2024 18:48	44901	SCOT_T2	0	0	0	0	0	0	-0.2	-0.23	0	0	0	0	0	0
12/27/2024 18:48	10707	CATA_T2	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
12/27/2024 18:48	48902	FOSP_T2	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
12/27/2024 18:48	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:48	55001	NEWP_T1	0	1	1	0	0	0	-0.91	-0.94	1	1	0	600	600	0
12/27/2024 18:48	64201	KINZ_T1	4	6	2	0.18	0.2	0.02	-0.45	-0.48	2	2	0	1200	1200	0
12/27/2024 18:48	60201	ATGL_T2	0	1	1	0	0.1	0.1	-0.13	-0.16	0	0	0	0	0	0
12/27/2024 18:48	10701	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:48	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/27/2024 18:48	45501	DERR_T2	5	4	-1	0.7	0.97	0.27	-0.67	-0.66	2	2	0	1800	1800	0
12/27/2024 18:48	48901	FOSP_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
12/27/2024 18:48	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:48	23401	HONE_T2	0	1	1	0	0	0	-0.19	-0.23	0	0	0	0	0	0
12/27/2024 18:48	42701	AUGU_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/27/2024 18:48	12402	MILF_T1	3	1	-2	0.13	0.2	0.07	0	0	0	0	0	0	0	0
12/27/2024 18:48	10705	CATA_T2	0	0	0	0	0	0	-0.78	-0.8	1	1	0	900	900	0
12/27/2024 18:48	66504	SMAN_T2	0	0	0	0	0	0	-0.45	-0.49	0	0	0	0	0	0
12/27/2024 18:48	61701	ELIZ_T1	1	1	0	4.5	4.7	0.2	0.14	0.12	0	0	0	0	0	0
12/27/2024 18:48	57205	ROSS_T1	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
12/27/2024 18:48	14801	TREI_T2	0	2	2	0	0	0	0.71	0.72	0	0	0	0	0	0
12/27/2024 18:48	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
12/27/2024 18:48	52004	LING_T2	2	2	0	5.45	5.5	0.05	0.27	0.25	0	0	0	0	0	0
12/27/2024 18:48	46203	DANV_T2	0	1	1	0	0	0	-0.39	-0.44	0	0	0	0	0	0
12/27/2024 18:48	66505	SMAN_T2	3	3	0	0.37	0.57	0.2	0	0	0	0	0	0	0	0
12/27/2024 18:48	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
12/27/2024 18:48	12401	MILF_T1	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
12/27/2024 18:48	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:49	20601	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:49	24105	EHAZ_T1	4	4	0	5.83	5.75	-0.08	0	0	0	0	0	0	0	0
12/27/2024 18:49	43304	WATS_T2	19	9	-10	0.51	0.34	-0.17	0	0	0	0	0	0	0	0
12/27/2024 18:49	66502	SMAN_T2	0	0	0	0	0	0	-0.12	-0.04	0	0	0	0	0	0
12/27/2024 18:49	52004	LING_T2	2	2	0	5.45	5.5	0.05	0.27	0.25	0	0	0	0	0	0
12/27/2024 18:49	24102	EHAZ_T1	2	12	10	2.5	1.06	-1.44	0	0	0	0	0	0	0	0
12/27/2024 18:49	54501	ENOL_T2	0	0	0	0	0	0	-0.5	-0.45	1	1	0	600	600	0
12/27/2024 18:49	54201	PENN_T1	4	8	4	0.33	0.36	0.03	0	0	0	0	0	0	0	0
12/27/2024 18:49	60101	COCA_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
12/27/2024 18:49	20603	GRWO_T2	25	43	18	0.31	0.36	0.05	0.53	0.53	0	0	0	0	0	0
12/27/2024 18:49	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
12/27/2024 18:49	40602	PIGR_T1	12	16	4	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
12/27/2024 18:49	54505	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/27/2024 18:49	54601	SUMM_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/27/2024 18:49	63501	HEID_TBK1-2	34	38	4	0.52	0.47	-0.05	-0.45	-0.47	1	1	0	900	900	0
12/27/2024 18:49	66505	SMAN_T2	3	3	0	0.37	0.57	0.2	0	0	0	0	0	0	0	0
12/27/2024 18:49	64305	LINC_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
12/27/2024 18:49	53501	EVIL_T2	1	2	1	0.4	0.15	-0.25	-0.91	-0.88	1	1	0	600	600	0
12/27/2024 18:49	62605	ENGL_T1	0	0	0	0	0	0	-1.17	-1.17	0	0	0	0	0	0
12/27/2024 18:49	40601	PIGR_T1	6	3	-3	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
12/27/2024 18:49	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/27/2024 18:49	43302	WATS_T2	4	2	-2	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
12/27/2024 18:49	54203	PENN_T1	18	18	0	0.71	0.78	0.07	-0.03	-0.05	0	0	0	0	0	0
12/27/2024 18:49	24104	EHAZ_T1	0	0	0	0	0	0	-0.86	-0.87	1	1	0	1200	1200	0
12/27/2024 18:49	52502	PROG_T2	0	0	0	0	0	0	-0.5	-0.46	1	1	0	900	900	0
12/27/2024 18:49	61103	BERK_T5	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
12/27/2024 18:49	42201	SHEN_T2	0	1	1	0	0	0	0.43	0.41	0	0	0	0	0	0
12/27/2024 18:49	67002	STHI_T2	0	0	0	0	0	0	1.2	1.2	0	0	0	0	0	0
12/27/2024 18:49	24101	EHAZ_T1	44	48	4	1.82	0.95	-0.87	0	0	0	0	0	0	0	0
12/27/2024 18:49	61101	BERK_T5	0	0	0	0	0	0	-0.98	-0.96	0	0	0	0	0	0
12/27/2024 18:49	65502	MOJO_T2	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
12/27/2024 18:49	46506	LOHA_T1	3	3	0	2.07	2.03	-0.04	0	0	0	0	0	0	0	0
12/27/2024 18:49	64702	LITI_T2	0	0	0	0	0	0	-0.96	-0.95	0	0	0	0	0	0
12/27/2024 18:49	46501	LOHA_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
12/27/2024 18:49	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:49	57201	ROSS_T1	0	0	0	0	0	0	-0.98	-0.9	0	0	0	0	0	0
12/27/2024 18:50	54505	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/27/2024 18:50	22602	KIMB_T1	0	0	0	0	0	0	0.26	0.18	0	0	0	0	0	0
12/27/2024 18:50	57203	ROSS_T1	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
12/27/2024 18:50	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:50	66505	SMAN_T2	3	3	0	0.37	0.57	0.2	0	0	0	0	0	0	0	0
12/27/2024 18:50	60101	COCA_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
12/27/2024 18:50	63601	LETO_T1	5	6	1	0.38	0.55	0.17	1.21	1.36	0	0	0	0	0	0
12/27/2024 18:50	54203	PENN_T1	18	18	0	0.71	0.78	0.07	-0.03	-0.05	0	0	0	0	0	0
12/27/2024 18:50	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:50	54201	PENN_T1	4	8	4	0.33	0.36	0.03	0	0	0	0	0	0	0	0
12/27/2024 18:50	61101	BERK_T5	0	0	0	0	0	0	-0.98	-0.96	0	0	0	0	0	0
12/27/2024 18:50	43304	WATS_T2	19	9	-10	0.51	0.34	-0.17	0	0	0	0	0	0	0	0
12/27/2024 18:50	60803	BUCK_T1	2	3	1	0.1	0.13	0.03	-0.5	-0.51	1	1	0	600	600	0
12/27/2024 18:50	61001	DONV_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
12/27/2024 18:50	48902	FOSP_T2	0	0	0	0	0	0	0.01	0.06	0	0	0	0	0	0
12/27/2024 18:50	66504	SMAN_T2	0	0	0	0	0	0	-0.45	-0.49	0	0	0	0	0	0
12/27/2024 18:50	43301	WATS_T2	0	0	0	0	0	0	-0.47	-0.51	0	0	0	0	0	0
12/27/2024 18:50	64201	KINZ_T1	4	6	2	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/27/2024 18:50	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:50	67002	STHI_T2	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
12/27/2024 18:50	40602	PIGR_T1	12	16	4	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
12/27/2024 18:50	46506	LOHA_T1	3	3	0	2.07	2.03	-0.04	0	0	0	0	0	0	0	0
12/27/2024 18:50	63802	HEMP_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
12/27/2024 18:50	53501	EVIL_T2	1	2	1	0.4	0.15	-0.25	-0.91	-0.88	1	1	0	600	600	0
12/27/2024 18:50	46501	LOHA_T1	1	1	0	0.5	0.1	-0.4	-0.31	-0.26	1	1	0	1200	1200	0
12/27/2024 18:50	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
12/27/2024 18:50	16201	POFA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:50	60301	TWVA_T2	0	1	1	0	0	0	-3.3	-3.29	2	2	0	1800	1800	0
12/27/2024 18:50	48901	FOSP_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
12/27/2024 18:50	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-1	1	1	0	600	600	0
12/27/2024 18:50	10701	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:50	64501	LAVI_T1	53	35	-18	0.2	0.15	-0.05	-0.68	-0.7	0	0	0	0	0	0
12/27/2024 18:50	64503	LAVI_T1	51	37	-14	0.55	0.48	-0.07	0	0	0	0	0	0	0	0
12/27/2024 18:50	11302	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:50	62607	ENGL_T1	0	0	0	0	0	0	-1.4	-1.39	0	0	0	0	0	0
12/27/2024 18:50	57202	PAXT_T1	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
12/27/2024 18:50	55508	HERS_T2	2	2	0	0.7	0.8	0.1	0	0	1	1	0	1200	1200	0
12/27/2024 18:50	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/27/2024 18:50	60801	BUCK_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
12/27/2024 18:50	63501	HEID_TBK1-2	34	38	4	0.52	0.47	-0.05	0	0	0	0	0	0	0	0
12/27/2024 18:50	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:50	44201	POIN_T1	2	0	-2	0.1	0	-0.1	-2.21	-2.16	2	2	0	2100	2100	0
12/27/2024 18:50	10705	CATA_T2	0	0	0	0	0	0	-0.78	-0.8	1	1	0	900	900	0
12/27/2024 18:50	44902	SCOT_T2	0	0	0	0	0	0	-0.94	-0.9	0	0	0	0	0	0
12/27/2024 18:50	40601	PIGR_T1	6	3	-3	0.12	0.1	-0.02	-0.75	-0.8	0	0	0	0	0	0
12/27/2024 18:50	14204	EALL_T2	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
12/27/2024 18:50	63804	HEMP_T1	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
12/27/2024 18:50	64502	LAVI_T1	196	136	-60	0.28	0.21	-0.07	0	0	0	0	0	0	0	0
12/27/2024 18:50	44905	SCOT_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/27/2024 18:50	44904	SCOT_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
12/27/2024 18:50	43302	WATS_T2	4	2	-2	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
12/27/2024 18:51	42701	AUGU_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
12/27/2024 18:51	53501	EVIL_T2	1	2	1	0.4	0.15	-0.25	-0.88	-0.88	1	1	0	600	600	0
12/27/2024 18:51	40601	PIGR_T1	6	3	-3	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
12/27/2024 18:51	62605	ENGL_T1	0	0	0	0	0	0	-1.17	-1.17	0	0	0	0	0	0
12/27/2024 18:51	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
12/27/2024 18:51	46506	LOHA_T1	3	3	0	2.07	2.03	-0.04	0	0	0	0	0	0	0	0
12/27/2024 18:51	20601	GRWO_T2	0	1	1	0	0	0	-0.12	-0.12	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/27/2024 18:51	66502	SMAN_T2	0	0	0	0	0	0	-0.12	-0.04	0	0	0	0	0	0
12/27/2024 18:51	46501	LOHA_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
12/27/2024 18:51	64802	MONE_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
12/27/2024 18:51	62106	ELAN_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
12/27/2024 18:51	54506	ENOL_T2	0	0	0	0	0	0	0.43	0.47	1	1	0	600	600	0
12/27/2024 18:51	60101	COCA_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
12/27/2024 18:51	64201	KINZ_T1	4	6	2	0.18	0.2	0.02	-0.45	-0.48	2	2	0	1200	1200	0
12/27/2024 18:51	43302	WATS_T2	4	2	-2	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
12/27/2024 18:51	54203	PENN_T1	18	18	0	0.71	0.78	0.07	0	0	0	0	0	0	0	0
12/27/2024 18:51	40602	PIGR_T1	12	16	4	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
12/27/2024 18:51	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/27/2024 18:51	40101	HUNT_T2	282	228	-54	0.72	0.69	-0.03	-1.59	-1.57	0	0	0	0	0	0
12/27/2024 18:51	57201	ROSS_T1	0	0	0	0	0	0	-0.9	-0.97	0	0	0	0	0	0
12/27/2024 18:51	44201	POIN_T1	2	0	-2	0.1	0	-0.1	-2.21	-2.16	2	2	0	2100	2100	0
12/27/2024 18:51	44505	HAMI_T2	1	1	0	2.6	3.4	0.8	-0.01	-0.01	0	0	0	0	0	0
12/27/2024 18:51	42802	SEU_T1	0	0	0	0	0	0	-1.78	-1.77	0	0	0	0	0	0
12/27/2024 18:51	44502	HAMI_T2	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
12/27/2024 18:51	43304	WATS_T2	19	9	-10	0.51	0.34	-0.17	0	0	0	0	0	0	0	0
12/27/2024 18:51	54505	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/27/2024 18:51	20603	GRWO_T2	25	43	18	0.31	0.36	0.05	0	0	0	0	0	0	0	0
12/27/2024 18:51	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:51	67002	STHI_T2	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
12/27/2024 18:51	63804	HEMP_T1	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
12/27/2024 18:51	66505	SMAN_T2	3	3	0	0.37	0.57	0.2	0	0	0	0	0	0	0	0
12/27/2024 18:51	66504	SMAN_T2	0	0	0	0	0	0	-1.35	-1.47	0	0	0	0	0	0
12/27/2024 18:51	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
12/27/2024 18:51	62104	ELAN_T1	0	1	1	0	0	0	0.82	0.83	1	1	0	1200	1200	0
12/27/2024 18:51	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/27/2024 18:51	63802	HEMP_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
12/27/2024 18:51	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
12/27/2024 18:51	45802	HEGI_T2	36	19	-17	0.7	0.49	-0.21	0.46	0.57	0	0	0	0	0	0
12/27/2024 18:51	54201	PENN_T1	4	8	4	0.33	0.36	0.03	0.82	0.78	0	0	0	0	0	0
12/27/2024 18:52	62104	ELAN_T1	0	1	1	0	0	0	0.83	0.85	1	1	0	1200	1200	0
12/27/2024 18:52	60101	COCA_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
12/27/2024 18:52	44505	HAMI_T2	1	1	0	2.6	3.4	0.8	-0.01	-0.01	0	0	0	0	0	0
12/27/2024 18:52	42504	ALTA_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
12/27/2024 18:52	62607	ENGL_T1	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
12/27/2024 18:52	66504	SMAN_T2	0	0	0	0	0	0	-0.98	-0.89	0	0	0	0	0	0
12/27/2024 18:52	65802	RTWN_T2	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
12/27/2024 18:52	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:52	65303	NBRI_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
12/27/2024 18:52	64201	KINZ_T1	4	6	2	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/27/2024 18:52	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0.12	0.12	0	0	0	0	0	0
12/27/2024 18:52	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:52	52001	LING_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
12/27/2024 18:52	44502	HAMI_T2	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
12/27/2024 18:52	48902	FOSP_T2	0	0	0	0	0	0	0.02	0.07	0	0	0	0	0	0
12/27/2024 18:52	57201	ROSS_T1	0	0	0	0	0	0	-0.9	-0.97	0	0	0	0	0	0
12/27/2024 18:52	46203	DANV_T2	0	1	1	0	0	0	-0.44	-0.41	0	0	0	0	0	0
12/27/2024 18:52	54603	SUMM_T2	0	0	0	0	0	0	-0.42	-0.41	1	1	0	900	900	0
12/27/2024 18:52	66505	SMAN_T2	3	3	0	0.37	0.57	0.2	0	0	0	0	0	0	0	0
12/27/2024 18:52	60201	ATGL_T2	0	1	1	0	0.1	0.1	-0.16	-0.12	0	0	0	0	0	0
12/27/2024 18:52	67002	STHI_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
12/27/2024 18:52	45802	HEGI_T2	36	19	-17	0.7	0.49	-0.21	0.57	0.8	0	0	0	0	0	0
12/27/2024 18:52	42501	ALTA_T2	0	0	0	0	0	0	0.02	0.01	1	1	0	600	600	0
12/27/2024 18:52	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
12/27/2024 18:52	55101	WERT_T1	0	0	0	0	0	0	-1.93	-1.88	2	2	0	1500	1500	0
12/27/2024 18:52	54602	SUMM_T2	0	0	0	0	0	0	-2.37	-2.42	1	1	0	600	600	0
12/27/2024 18:52	66503	SMAN_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
12/27/2024 18:52	13302	ORVI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:52	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/27/2024 18:52	58402	MORO_T1	1	1	0	0.7	0	-0.7	-0.76	-0.78	3	3	0	1800	1800	0
12/27/2024 18:52	54601	SUMM_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/27/2024 18:53	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:53	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/27/2024 18:53	60803	BUCK_T1	2	3	1	0.1	0.13	0.03	-0.51	-0.52	1	1	0	600	600	0
12/27/2024 18:53	62106	ELAN_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
12/27/2024 18:53	54601	SUMM_T2	0	1	1	0	0.3	0.3	-1.79	-1.83	2	2	0	2100	2100	0
12/27/2024 18:53	61001	DONV_T1	0	0	0	0	0	0	-0.22	-0.12	0	0	0	0	0	0
12/27/2024 18:53	58402	MORO_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
12/27/2024 18:53	43402	BENT_T1	0	1	1	0	0	0	-0.87	-1.52	1	2	1	900	1500	600
12/27/2024 18:53	66505	SMAN_T2	3	3	0	0.37	0.57	0.2	0	0	0	0	0	0	0	0
12/27/2024 18:53	60701	BREC_T1	0	0	0	0	0	0	-0.9	-0.94	2	2	0	1200	1200	0
12/27/2024 18:53	60803	BUCK_T1	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
12/27/2024 18:53	62605	ENGL_T1	0	0	0	0	0	0	-1.17	-1.17	0	0	0	0	0	0
12/27/2024 18:53	40802	EXCH_T2	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
12/27/2024 18:53	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
12/27/2024 18:53	44902	SCOT_T2	0	0	0	0	0	0	-0.9	-0.94	0	0	0	0	0	0
12/27/2024 18:53	62601	ENGL_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
12/27/2024 18:53	57203	ROSS_T1	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
12/27/2024 18:53	41301	FISH_T1	1	1	0	2.6	2.5	-0.1	-0.39	-0.41	0	0	0	0	0	0
12/27/2024 18:53	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
12/27/2024 18:53	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:53	53802	MBRG_T2	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
12/27/2024 18:53	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/27/2024 18:53	58401	MORO_T1	0	0	0	0	0	0	-0.94	-1.01	1	1	0	600	600	0
12/27/2024 18:53	57201	ROSS_T1	0	0	0	0	0	0	-0.9	-0.97	0	0	0	0	0	0
12/27/2024 18:53	43401	BENT_T1	16	13	-3	3.17	2.21	-0.96	0	0	0	0	0	0	0	0
12/27/2024 18:54	61703	ELIZ_T1	0	0	0	0	0	0	-1.84	-1.85	1	1	0	900	900	0
12/27/2024 18:54	48902	FOSP_T2	0	0	0	0	0	0	0.02	0.07	0	0	0	0	0	0
12/27/2024 18:54	43202	MVIL_T2	0	0	0	0	0	0	-0.59	-0.62	0	0	0	0	0	0
12/27/2024 18:54	60803	BUCK_T1	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/27/2024 18:54	54206	PENN_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
12/27/2024 18:54	24205	PROV_T3	17	7	-10	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
12/27/2024 18:54	44905	SCOT_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/27/2024 18:54	64702	LITI_T2	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
12/27/2024 18:54	25603	ARRO_T1	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
12/27/2024 18:54	40601	PIGR_T1	6	3	-3	0.12	0.1	-0.02	-0.8	-0.8	0	0	0	0	0	0
12/27/2024 18:54	52502	PROG_T2	0	0	0	0	0	0	-0.92	-0.94	2	2	0	1800	1800	0
12/27/2024 18:54	53501	EVIL_T2	1	2	1	0.4	0.15	-0.25	-0.88	-0.88	1	1	0	600	600	0
12/27/2024 18:54	60201	ATGL_T2	0	1	1	0	0.1	0.1	-0.16	-0.12	0	0	0	0	0	0
12/27/2024 18:54	51204	MTON_T2	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
12/27/2024 18:54	60801	BUCK_T1	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
12/27/2024 18:54	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/27/2024 18:54	55001	NEWP_T1	0	1	1	0	0	0	-0.94	-0.93	1	1	0	600	600	0
12/27/2024 18:54	66505	SMAN_T2	3	3	0	0.37	0.57	0.2	0	0	0	0	0	0	0	0
12/27/2024 18:54	63804	HEMP_T1	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
12/27/2024 18:54	53802	MBRG_T2	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
12/27/2024 18:54	62606	ENGL_T1	0	0	0	0	0	0	-1.48	-1.48	1	1	0	900	900	0
12/27/2024 18:54	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:54	66502	SMAN_T2	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
12/27/2024 18:54	24204	PROV_T3	13	4	-9	0.6	1.53	0.93	0	0	0	0	0	0	0	0
12/27/2024 18:54	67002	STHI_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
12/27/2024 18:54	61701	ELIZ_T1	1	1	0	4.5	4.7	0.2	0	0	0	0	0	0	0	0
12/27/2024 18:54	40602	PIGR_T1	12	16	4	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
12/27/2024 18:54	60701	BREC_T1	0	0	0	0	0	0	-0.45	-0.47	1	1	0	600	600	0
12/27/2024 18:54	54601	SUMM_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/27/2024 18:54	45802	HEGI_T2	36	19	-17	0.7	0.49	-0.21	0	0	0	0	0	0	0	0
12/27/2024 18:54	63802	HEMP_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
12/27/2024 18:54	54603	SUMM_T2	0	0	0	0	0	0	-0.42	-0.41	1	1	0	900	900	0
12/27/2024 18:54	24201	PROV_T3	2	1	-1	3.45	6.6	3.15	-1.36	-1.37	1	1	0	1200	1200	0
12/27/2024 18:55	58402	MORO_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
12/27/2024 18:55	57106	SPHI_T2	3	3	0	1.43	1.57	0.14	0	0	0	0	0	0	0	0
12/27/2024 18:55	60803	BUCK_T1	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/27/2024 18:55	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/27/2024 18:55	44201	POIN_T1	2	0	-2	0.1	0	-0.1	-2.16	-2.14	2	2	0	2100	2100	0
12/27/2024 18:55	62602	ENGL_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
12/27/2024 18:55	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/27/2024 18:55	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
12/27/2024 18:55	60902	DONG_T2	0	0	0	0	0	0	0.52	0.47	0	0	0	0	0	0
12/27/2024 18:55	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:55	60801	BUCK_T1	0	0	0	0	0	0	-0.38	-0.34	0	0	0	0	0	0
12/27/2024 18:55	60101	COCA_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
12/27/2024 18:55	67002	STHI_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
12/27/2024 18:55	57104	SPHI_T2	2	2	0	0.55	2	1.45	-1.81	-1.83	1	1	0	900	900	0
12/27/2024 18:55	60701	BREC_T1	0	0	0	0	0	0	-0.9	-0.94	2	2	0	1200	1200	0
12/27/2024 18:55	66505	SMAN_T2	3	3	0	0.37	0.57	0.2	0	0	0	0	0	0	0	0
12/27/2024 18:55	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:55	40601	PIGR_T1	6	3	-3	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
12/27/2024 18:55	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:55	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:55	40602	PIGR_T1	12	16	4	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
12/27/2024 18:56	64201	KINZ_T1	4	6	2	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/27/2024 18:56	42504	ALTA_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
12/27/2024 18:56	66502	SMAN_T2	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
12/27/2024 18:56	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:56	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
12/27/2024 18:56	63501	HEID_TBK1-2	34	38	4	0.52	0.47	-0.05	-0.47	-0.48	1	1	0	900	900	0
12/27/2024 18:56	63804	HEMP_T1	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
12/27/2024 18:56	63803	HEMP_T1	0	0	0	0	0	0	1.8	1.77	0	0	0	0	0	0
12/27/2024 18:56	40602	PIGR_T1	12	16	4	0.28	0.26	-0.02	-1.82	-1.8	1	1	0	600	600	0
12/27/2024 18:56	57205	ROSS_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
12/27/2024 18:56	43304	WATS_T2	19	9	-10	0.51	0.34	-0.17	0	0	0	0	0	0	0	0
12/27/2024 18:56	54505	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/27/2024 18:56	55101	WERT_T1	0	0	0	0	0	0	-1.93	-1.88	2	2	0	1500	1500	0
12/27/2024 18:56	64303	LINC_T1	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
12/27/2024 18:56	46102	MACI_T1	4	4	0	0.15	0.15	0	0.66	0.66	0	0	0	0	0	0
12/27/2024 18:56	42501	ALTA_T2	0	0	0	0	0	0	0.02	0.01	1	1	0	600	600	0
12/27/2024 18:56	43302	WATS_T2	4	2	-2	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
12/27/2024 18:56	64202	KINZ_T1	0	1	1	0	0	0	0.35	0.37	0	0	0	0	0	0
12/27/2024 18:56	40601	PIGR_T1	6	3	-3	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
12/27/2024 18:56	66505	SMAN_T2	3	3	0	0.37	0.57	0.2	0	0	0	0	0	0	0	0
12/27/2024 18:56	54501	ENOL_T2	0	0	0	0	0	0	-0.45	-0.51	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/27/2024 18:56	62605	ENGL_T1	0	0	0	0	0	0	-1.17	-1.17	0	0	0	0	0	0
12/27/2024 18:56	60701	BREC_T1	0	0	0	0	0	0	-0.45	-0.47	1	1	0	600	600	0
12/27/2024 18:56	60803	BUCK_T1	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/27/2024 18:57	57205	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:57	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:57	63804	HEMP_T1	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
12/27/2024 18:57	63801	HEMP_T1	0	0	0	0	0	0	-0.3	-0.15	0	0	0	0	0	0
12/27/2024 18:57	66505	SMAN_T2	3	3	0	0.37	0.57	0.2	0	0	0	0	0	0	0	0
12/27/2024 18:57	66903	SHIL_T2	0	0	0	0	0	0	-1.24	-1.24	0	0	0	0	0	0
12/27/2024 18:57	66502	SMAN_T2	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
12/27/2024 18:57	44201	POIN_T1	2	0	-2	0.1	0	-0.1	-4.32	-4.28	4	4	0	4200	4200	0
12/27/2024 18:57	51303	WIND_T1	14	4	-10	0.15	0	-0.15	0	0	0	0	0	0	0	0
12/27/2024 18:57	41301	FISH_T1	1	1	0	2.6	2.5	-0.1	-0.39	-0.41	0	0	0	0	0	0
12/27/2024 18:57	53802	MBRG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:58	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
12/27/2024 18:58	12402	MILF_T1	3	1	-2	0.13	0.2	0.07	0	0	0	0	0	0	0	0
12/27/2024 18:58	64203	KINZ_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
12/27/2024 18:58	58402	MORO_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
12/27/2024 18:58	12401	MILF_T1	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
12/27/2024 18:58	60803	BUCK_T1	2	3	1	0.1	0.13	0.03	-0.51	-0.52	1	1	0	600	600	0
12/27/2024 18:58	58401	MORO_T1	0	0	0	0	0	0	-0.94	-1.01	1	1	0	600	600	0
12/27/2024 18:58	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/27/2024 18:58	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 18:58	40101	HUNT_T2	282	228	-54	0.72	0.69	-0.03	-1.57	-1.6	0	0	0	0	0	0
12/27/2024 18:58	64201	KINZ_T1	4	6	2	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/27/2024 18:58	62606	ENGL_T1	0	0	0	0	0	0	-1.48	-1.48	1	1	0	900	900	0
12/27/2024 18:58	49803	UNIV_T1	1	1	0	7.7	6.6	-1.1	0	0	0	0	0	0	0	0
12/27/2024 18:58	49804	UNIV_T1	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
12/27/2024 18:59	44901	SCOT_T2	0	0	0	0	0	0	-0.23	-0.15	0	0	0	0	0	0
12/27/2024 18:59	63804	HEMP_T1	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
12/27/2024 18:59	63801	HEMP_T1	0	0	0	0	0	0	-0.3	-0.15	0	0	0	0	0	0
12/27/2024 18:59	53501	EVIL_T2	1	2	1	0.4	0.15	-0.25	-0.88	-0.88	1	1	0	600	600	0
12/27/2024 18:59	66504	SMAN_T2	0	0	0	0	0	0	-0.49	-0.45	0	0	0	0	0	0
12/27/2024 18:59	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/27/2024 18:59	66505	SMAN_T2	3	3	0	0.37	0.57	0.2	0	0	0	0	0	0	0	0
12/27/2024 18:59	46506	LOHA_T1	3	3	0	2.07	2.03	-0.04	0	0	0	0	0	0	0	0
12/27/2024 18:59	57205	ROSS_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
12/27/2024 18:59	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
12/27/2024 18:59	63501	HEID_TBK1-2	34	38	4	0.52	0.47	-0.05	-0.47	-0.48	1	1	0	900	900	0
12/27/2024 18:59	46501	LOHA_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
12/27/2024 18:59	57203	ROSS_T1	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
12/27/2024 19:00	60803	BUCK_T1	2	4	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/27/2024 19:00	57203	ROSS_T1	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
12/27/2024 19:00	60801	BUCK_T1	0	3	3	0	0.1	0.1	-0.19	-0.17	0	0	0	0	0	0
12/27/2024 19:00	53802	MBRG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 19:00	58402	MORO_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
12/27/2024 19:00	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 19:00	58401	MORO_T1	0	0	0	0	0	0	-0.94	-1.01	1	1	0	600	600	0
12/27/2024 19:00	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 19:01	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 19:01	66504	SMAN_T2	0	0	0	0	0	0	-0.49	-0.45	0	0	0	0	0	0
12/27/2024 19:01	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/27/2024 19:01	63804	HEMP_T1	1	1	0	6.4	6	-0.4	0.83	0.85	0	0	0	0	0	0
12/27/2024 19:01	52502	PROG_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	900	900	0
12/27/2024 19:01	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 19:01	66505	SMAN_T2	3	3	0	0.4	0.87	0.47	0	0	0	0	0	0	0	0
12/27/2024 19:01	58402	MORO_T1	1	0	-1	2	0	-2	-0.76	-0.78	3	3	0	1800	1800	0
12/27/2024 19:02	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 19:02	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.21	-0.18	0	0	0	0	0	0
12/27/2024 19:02	55001	NEWP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/27/2024 19:02	61304	EARL_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	600	600	0
12/27/2024 19:02	55507	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 19:02	53501	EVIL_T2	1	2	1	0.2	0.1	-0.1	-0.88	-0.88	1	1	0	600	600	0
12/27/2024 19:03	66505	SMAN_T2	3	3	0	0.4	0.87	0.47	0	0	0	0	0	0	0	0
12/27/2024 19:03	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
12/27/2024 19:03	66504	SMAN_T2	0	0	0	0	0	0	-0.49	-0.45	0	0	0	0	0	0
12/27/2024 19:04	64901	MILL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 19:04	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/27/2024 19:04	64904	MILL_T1	0	0	0	0	0	0	-0.33	-0.41	0	0	0	0	0	0
12/27/2024 19:05	54601	SUMM_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/27/2024 19:05	65502	MOJO_T2	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
12/27/2024 19:05	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2024 19:19	63804	HEMP_T1	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
12/27/2024 19:19	63803	HEMP_T1	0	0	0	0	0	0	0.59	0.62	0	0	0	0	0	0
12/27/2024 19:21	20601	GRWO_T2	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
12/27/2024 19:21	20603	GRWO_T2	38	47	9	0.51	0.37	-0.14	0	0	0	0	0	0	0	0
12/27/2024 20:01	57201	ROSS_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
12/27/2024 20:01	57205	ROSS_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
12/27/2024 20:23	62605	ENGL_T1	0	0	0	0	0	0	-1.2	-1.19	0	0	0	0	0	0
12/27/2024 20:23	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/28/2024 9:00	48302	ORWI_T2	2	2	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
12/28/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
12/28/2024 9:00	67503	WEWI_T2	1	1	0	0.3	0	-0.3	-0.03	-0.02	0	0	0	0	0	0
12/28/2024 9:00	48303	ORWI_T2	0	0	0	0	0	0	0.44	0.49	0	0	0	0	0	0
12/28/2024 9:20	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 9:50	27604	PIRI_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
12/28/2024 9:53	27604	PIRI_T1	0	0	0	0	0	0	0.82	0.88	0	0	0	0	0	0
12/28/2024 10:01	45802	HEGI_T2	2	17	15	0.1	0.31	0.21	0.3	0.44	0	0	0	0	0	0
12/28/2024 10:03	52502	PROG_T2	0	0	0	0	0	0	-0.53	-0.47	1	1	0	900	900	0
12/28/2024 10:04	52502	PROG_T2	0	0	0	0	0	0	-0.53	-0.47	1	1	0	900	900	0
12/28/2024 10:04	40602	PIGR_T1	1	0	-1	1.6	1.3	-0.3	-1.82	-1.87	1	1	0	600	600	0
12/28/2024 10:05	40602	PIGR_T1	1	1	0	1.6	1.3	-0.3	-1.82	-1.87	1	1	0	600	600	0
12/28/2024 10:06	58402	MORO_T1	0	0	0	0	0	0	-1.4	-1.38	3	3	0	1950	1950	0
12/28/2024 10:07	40602	PIGR_T1	1	1	0	1.6	1.3	-0.3	-1.87	-1.85	1	1	0	600	600	0
12/28/2024 10:09	40602	PIGR_T1	1	1	0	1.6	1.3	-0.3	-1.87	-1.85	1	1	0	600	600	0
12/28/2024 10:13	46001	BERW_T1	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
12/28/2024 10:17	63601	LETO_T1	5	5	0	0.44	0.4	-0.04	-0.36	-0.41	1	1	0	900	900	0
12/28/2024 10:17	58401	MORO_T1	0	0	0	0	0	0	-1.14	-1.11	1	1	0	600	600	0
12/28/2024 10:18	47101	MARL_T1	11	16	5	0.75	0.49	-0.26	0	0	0	0	0	0	0	0
12/28/2024 10:18	47104	MARL_T1	1	0	-1	2.7	0	-2.7	-0.39	-0.38	0	0	0	0	0	0
12/28/2024 10:19	58401	MORO_T1	0	0	0	0	0	0	-1.14	-1.11	1	1	0	600	600	0
12/28/2024 10:19	63601	LETO_T1	5	5	0	0.44	0.4	-0.04	-0.36	-0.41	1	1	0	900	900	0
12/28/2024 10:22	42802	SELI_T1	0	0	0	0	0	0	-1.61	-1.64	0	0	0	0	0	0
12/28/2024 10:22	44901	SCOT_T2	0	0	0	0	0	0	-0.48	-0.69	0	0	0	0	0	0
12/28/2024 10:30	14601	SWHI_T1	0	0	0	0	0	0	-0.76	-0.75	0	0	0	0	0	0
12/28/2024 10:30	14605	SWHI_T1	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
12/28/2024 10:31	13501	MCMI_T1	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
12/28/2024 10:32	64204	KINZ_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
12/28/2024 10:32	52002	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 10:32	64203	KINZ_T1	0	0	0	0	0	0	0.2	0.28	0	0	0	0	0	0
12/28/2024 10:32	52004	LING_T2	2	2	0	4.2	4.1	-0.1	0.03	0	0	0	0	0	0	0
12/28/2024 10:33	23403	HONE_T1	0	0	0	0	0	0	-0.71	-0.75	0	0	0	0	0	0
12/28/2024 10:37	44902	SCOT_T2	0	0	0	0	0	0	-0.93	-0.95	0	0	0	0	0	0
12/28/2024 10:43	46203	DANV_T2	1	1	0	1.5	0.8	-0.7	0	0	0	0	0	0	0	0
12/28/2024 10:43	46206	DANV_T2	5	3	-2	0.44	0	-0.44	1.21	1.34	2	2	0	2100	2100	0
12/28/2024 10:43	46204	DANV_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
12/28/2024 10:44	46204	DANV_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
12/28/2024 10:44	46203	DANV_T2	1	1	0	1.5	0.8	-0.7	0	0	0	0	0	0	0	0
12/28/2024 10:44	46206	DANV_T2	5	3	-2	0.44	0	-0.44	1.21	1.34	2	2	0	2100	2100	0
12/28/2024 10:45	46206	DANV_T2	1	2	1	0.2	0.15	-0.05	1.21	1.34	2	2	0	2100	2100	0
12/28/2024 10:45	52004	LING_T2	2	2	0	3.95	4.3	0.35	0	0	0	0	0	0	0	0
12/28/2024 10:45	46204	DANV_T2	3	4	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
12/28/2024 10:45	46203	DANV_T2	1	1	0	2.4	0	-2.4	0	0	0	0	0	0	0	0
12/28/2024 10:45	52002	LING_T2	0	1	1	0	0	0	-0.08	-0.08	0	0	0	0	0	0
12/28/2024 10:46	52004	LING_T2	2	2	0	3.95	4.3	0.35	0	0	0	0	0	0	0	0
12/28/2024 10:46	52001	LING_T1	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
12/28/2024 10:46	52002	LING_T2	0	1	1	0	0	0	-0.08	-0.08	0	0	0	0	0	0
12/28/2024 10:48	23401	HONE_T2	1	0	-1	0.4	0	-0.4	-0.03	-0.02	0	0	0	0	0	0
12/28/2024 10:54	57303	MOAL_T2	1	1	0	8.4	7.8	-0.6	0	0	0	0	0	0	0	0
12/28/2024 10:54	57301	MOAL_T2	0	0	0	0	0	0	-2.98	-2.92	0	0	0	0	0	0
12/28/2024 10:57	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 10:58	17802	GILB_T1	2	0	-2	0.3	0	-0.3	0.09	0.08	0	0	0	0	0	0
12/28/2024 11:02	63501	HEID_TBK1-2	0	18	18	0	0.17	0.17	0	0	0	0	0	0	0	0
12/28/2024 11:05	44502	HAMI_T2	1	2	1	1.7	1.7	0	0	0	0	0	0	0	0	0
12/28/2024 11:05	44503	HAMI_T2	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
12/28/2024 11:08	40602	PIGR_T1	1	2	1	1.8	0.8	-1	0	0	0	0	0	0	0	0
12/28/2024 11:11	45602	WOOL_T1	0	0	0	0	0	0	0.57	0.54	0	0	0	0	0	0
12/28/2024 11:17	26704	HEML_T2	0	0	0	0	0	0	-0.83	-0.82	1	1	0	1200	1200	0
12/28/2024 11:23	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 11:23	55103	WERT_T1	1	1	0	7.7	8.4	0.7	0	0	0	0	0	0	0	0
12/28/2024 11:41	43402	BENT_T1	0	0	0	0	0	0	-1.53	-1.53	2	2	0	1500	1500	0
12/28/2024 11:41	43401	BENT_T1	8	13	5	1.5	1.54	0.04	0	0	0	0	0	0	0	0
12/28/2024 11:42	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 11:43	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.18	0	0	0	0	0	0
12/28/2024 11:46	12006	HATF_T1	0	2	2	0	0	0	0.39	0.35	0	0	0	0	0	0
12/28/2024 11:46	12005	HATF_T1	2	3	1	0.35	0.47	0.12	0	0	0	0	0	0	0	0
12/28/2024 11:46	12007	HATF_T1	0	0	0	0	0	0	-0.07	-0.03	1	1	0	1200	1200	0
12/28/2024 11:46	63501	HEID_TBK1-2	31	35	4	0.27	0.37	0.1	-0.4	-0.44	1	1	0	900	900	0
12/28/2024 11:47	20603	GRWO_T2	1	0	-1	0.1	0	-0.1	-0.51	-0.49	1	1	0	900	900	0
12/28/2024 11:47	20602	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 12:00	11104	EGYP_T1	8	8	0	0.56	0.4	-0.16	0	0	0	0	0	0	0	0
12/28/2024 12:00	11103	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 12:04	13302	ORVI_T2	0	1	1	0	0.1	0.1	1.53	1.47	0	0	0	0	0	0
12/28/2024 12:10	16301	ALPA_T1	0	0	0	0	0	0	0.26	0.2	0	0	0	0	0	0
12/28/2024 12:16	16301	ALPA_T1	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
12/28/2024 12:20	46602	LACR_T1	2	0	-2	0	0	0	-0.81	-0.78	0	0	0	0	0	0
12/28/2024 12:21	65205	PRIN_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
12/28/2024 12:28	45602	WOOL_T1	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
12/28/2024 12:30	16101	BING_T2	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
12/28/2024 12:31	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
12/28/2024 12:31	40602	PIGR_T1	1	1	0	3.2	3.1	-0.1	0	0	0	0	0	0	0	0
12/28/2024 12:31	63801	HEMP_T1	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
12/28/2024 12:40	42701	AUGU_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/28/2024 12:43	42701	AUGU_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/28/2024 12:43	61304	EARL_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	600	600	0
12/28/2024 12:44	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/28/2024 12:44	29402	BELT_T1	107	15	-92	0.6	0.59	-0.01	0	0	0	0	0	0	0	0
12/28/2024 12:45	60801	BUCK_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
12/28/2024 12:45	60803	BUCK_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/28/2024 12:47	44502	HAMI_T2	1	1	0	2.1	1.8	-0.3	0	0	0	0	0	0	0	0
12/28/2024 12:47	44505	HAMI_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
12/28/2024 12:49	44505	HAMI_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
12/28/2024 12:49	44502	HAMI_T2	1	1	0	2.1	1.8	-0.3	0	0	0	0	0	0	0	0
12/28/2024 12:50	41902	REED_T1	0	4	4	0	0.1	0.1	0.84	0.83	0	0	0	0	0	0
12/28/2024 12:50	52502	PROG_T2	0	0	0	0	0	0	-0.47	0.44	1	0	-1	900	0	-900
12/28/2024 12:51	64101	REFR_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
12/28/2024 12:52	43802	SWIL_T1	0	0	0	0	0	0	-0.13	-0.14	1	1	0	600	600	0
12/28/2024 12:52	43801	SWIL_T1	2	5	3	3.1	1.36	-1.74	0	0	0	0	0	0	0	0
12/28/2024 12:52	41902	REED_T1	0	4	4	0	0.1	0.1	1.65	1.7	0	0	0	0	0	0
12/28/2024 12:54	41902	REED_T1	0	4	4	0	0.1	0.1	0.83	0.85	0	0	0	0	0	0
12/28/2024 12:58	10801	CHHI_T1	0	0	0	0	0	0	-2.09	-2.1	3	3	0	2100	2100	0
12/28/2024 13:02	46204	DANV_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
12/28/2024 13:02	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
12/28/2024 13:02	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
12/28/2024 13:02	46206	DANV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/28/2024 13:02	46203	DANV_T2	0	0	0	0	0	0	-1.88	-1.93	0	0	0	0	0	0
12/28/2024 13:02	63801	HEMP_T1	0	0	0	0	0	0	-0.35	-0.23	0	0	0	0	0	0
12/28/2024 13:03	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
12/28/2024 13:20	13303	ORVI_T1	0	0	0	0	0	0	0.67	0.77	0	0	0	0	0	0
12/28/2024 13:23	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 13:23	44701	MUNC_T2	3	1	-2	0.23	0.5	0.27	0	0	0	0	0	0	0	0
12/28/2024 13:28	54501	ENOL_T2	0	0	0	0	0	0	-0.51	-0.53	1	1	0	600	600	0
12/28/2024 13:29	63302	GREE_T1	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
12/28/2024 13:29	63305	GREE_T1	15	15	0	0.43	0.56	0.13	0	0	0	0	0	0	0	0
12/28/2024 13:29	63301	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/28/2024 13:29	61503	EPET_T1	0	0	0	0	0	0	-1.17	-1.18	0	0	0	0	0	0
12/28/2024 13:30	55002	NEWP_T1	5	5	0	0.54	0.56	0.02	-0.22	-0.21	0	0	0	0	0	0
12/28/2024 13:30	63305	GREE_T1	15	15	0	0.52	0.56	0.04	-2.67	-2.67	1	1	0	900	900	0
12/28/2024 13:30	61503	EPET_T1	0	0	0	0	0	0	-1.17	-1.18	0	0	0	0	0	0
12/28/2024 13:30	63301	GREE_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/28/2024 13:31	63301	GREE_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/28/2024 13:31	63306	GREE_T1	0	0	0	0	0	0	-2.16	-2.17	1	1	0	900	900	0
12/28/2024 13:31	63305	GREE_T1	15	15	0	0.52	0.56	0.04	0	0	0	0	0	0	0	0
12/28/2024 13:32	28805	LAKE_T1	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
12/28/2024 13:33	63301	GREE_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/28/2024 13:33	28805	LAKE_T1	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
12/28/2024 13:33	63305	GREE_T1	15	15	0	0.52	0.56	0.04	-2.67	-2.67	1	1	0	900	900	0
12/28/2024 13:33	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0.81	0.8	0	0	0	0	0	0
12/28/2024 13:34	64701	LITI_T1	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
12/28/2024 13:35	52502	PROG_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
12/28/2024 13:35	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0.81	0.8	0	0	0	0	0	0
12/28/2024 13:36	13303	ORVI_T1	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
12/28/2024 13:36	64101	REFR_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
12/28/2024 13:39	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
12/28/2024 13:40	64101	REFR_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
12/28/2024 13:43	62106	ELAN_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
12/28/2024 13:44	10805	CHHI_T2	1	1	0	8	7.8	-0.2	-1.41	-1.45	1	1	0	600	600	0
12/28/2024 13:45	62105	ELAN_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
12/28/2024 13:50	65207	PRIN_T4	4	5	1	1.7	0.6	-1.1	0	0	1	1	0	1200	1200	0
12/28/2024 13:50	13302	ORVI_T2	12	12	0	0.31	0.25	-0.06	1.52	1.49	0	0	0	0	0	0
12/28/2024 13:52	13302	ORVI_T2	12	12	0	0.31	0.25	-0.06	2.98	3.12	0	0	0	0	0	0
12/28/2024 13:56	16102	BING_T2	1	1	0	0.2	0.2	0	-0.07	-0.07	0	0	0	0	0	0
12/28/2024 14:03	47102	MARL_T2	64	68	4	0.34	0.37	0.03	0	0	0	0	0	0	0	0
12/28/2024 14:03	47103	MARL_T2	53	62	9	0.34	0.46	0.12	-0.52	-0.56	0	0	0	0	0	0
12/28/2024 14:03	52002	LING_T2	1	0	-1	1.1	0	-1.1	-0.05	-0.06	0	0	0	0	0	0
12/28/2024 14:03	52004	LING_T2	2	2	0	4.6	4.7	0.1	0	0	0	0	0	0	0	0
12/28/2024 14:04	52004	LING_T2	2	2	0	4.6	4.7	0.1	0	0	0	0	0	0	0	0
12/28/2024 14:04	52002	LING_T2	1	0	-1	1.1	0	-1.1	-0.05	-0.06	0	0	0	0	0	0
12/28/2024 14:05	52004	LING_T2	2	2	0	4.6	4.7	0.1	0	0	0	0	0	0	0	0
12/28/2024 14:05	52002	LING_T2	1	0	-1	1.1	0	-1.1	-0.05	-0.06	0	0	0	0	0	0
12/28/2024 14:12	15603	NSTR_T2	0	0	0	0	0	0	-1.21	-1.19	0	0	0	0	0	0
12/28/2024 14:14	60201	ATGL_T2	2	25	23	0.1	0.15	0.05	-0.22	-0.26	0	0	0	0	0	0
12/28/2024 14:16	12001	HATF_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/28/2024 14:16	12004	HATF_T1	3	13	10	0.13	0.14	0.01	0	0	0	0	0	0	0	0
12/28/2024 14:16	12005	HATF_T1	4	5	1	0.45	0.54	0.09	0	0	0	0	0	0	0	0
12/28/2024 14:16	12002	HATF_T1	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
12/28/2024 14:21	21705	SUBU_T1	2	2	0	4.45	4.05	-0.4	0	0	0	0	0	0	0	0
12/28/2024 14:21	21702	SUBU_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 14:21	21701	SUBU_T1	1	1	0	6.3	6	-0.3	0	0	0	0	0	0	0	0
12/28/2024 14:21	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 14:30	45501	DERR_T2	0	0	0	0	0	0	-1.36	-1.24	4	4	0	3600	3600	0
12/28/2024 14:31	45501	DERR_T2	0	0	0	0	0	0	-0.68	-0.62	2	2	0	1800	1800	0
12/28/2024 14:33	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 14:36	57205	ROSS_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
12/28/2024 14:38	43801	SWIL_T1	2	2	0	3.25	3.25	0	0	0	0	0	0	0	0	0
12/28/2024 14:38	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 14:39	42802	SELI_T1	0	0	0	0	0	0	-1.72	-1.73	0	0	0	0	0	0
12/28/2024 14:45	24101	EHAZ_T1	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
12/28/2024 14:45	24105	EHAZ_T1	4	5	1	6.48	6.5	0.02	0	0	0	0	0	0	0	0
12/28/2024 14:45	24102	EHAZ_T1	3	23	20	0.57	0.97	0.4	0	0	0	0	0	0	0	0
12/28/2024 14:45	24103	EHAZ_T1	0	0	0	0	0	0	-1.53	-1.51	0	0	0	0	0	0
12/28/2024 15:07	61002	DONV_T2	0	0	0	0	0	0	-0.8	-0.85	1	1	0	600	600	0
12/28/2024 15:08	61002	DONV_T2	0	0	0	0	0	0	-0.8	-0.85	1	1	0	600	600	0
12/28/2024 15:24	46004	BERW_T2	0	1	1	0	0	0	-0.8	-0.68	0	0	0	0	0	0
12/28/2024 18:26	16101	BING_T2	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
12/28/2024 18:28	13302	ORVI_T2	5	6	1	0.1	0.13	0.03	1.13	1.2	0	0	0	0	0	0
12/28/2024 18:30	13303	ORVI_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
12/28/2024 18:30	63501	HEID_TBK1-2	1	36	35	0.1	0.43	0.33	-0.46	-0.47	1	1	0	900	900	0
12/28/2024 18:30	16102	BING_T2	0	0	0	0	0	0	-0.14	-0.09	0	0	0	0	0	0
12/28/2024 18:30	63804	HEMP_T1	1	1	0	6.1	5.9	-0.2	0.75	0.78	0	0	0	0	0	0
12/28/2024 18:31	47101	MARL_T1	24	25	1	0.78	0.72	-0.06	0	0	0	0	0	0	0	0
12/28/2024 18:31	47104	MARL_T1	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
12/28/2024 18:32	10805	CHHI_T2	1	1	0	8.7	8.5	-0.2	-1.17	-1.17	1	1	0	600	600	0
12/28/2024 18:33	63501	HEID_TBK1-2	1	36	35	0.1	0.43	0.33	0	0	0	0	0	0	0	0
12/28/2024 18:34	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 18:34	21701	SUBU_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
12/28/2024 18:34	21705	SUBU_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
12/28/2024 18:34	13501	MCMI_T1	0	1	1	0	0.1	0.1	0.29	0.28	0	0	0	0	0	0
12/28/2024 18:34	21702	SUBU_T1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 18:34	26704	HEML_T2	0	0	0	0	0	0	-0.83	-0.84	1	1	0	1200	1200	0
12/28/2024 18:34	17802	GILB_T1	0	0	0	0	0	0	0.02	0.05	0	0	0	0	0	0
12/28/2024 18:35	15603	NSTR_T2	0	0	0	0	0	0	-1.16	-1.17	0	0	0	0	0	0
12/28/2024 18:35	15601	NSTR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 18:36	29402	BELT_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
12/28/2024 18:36	52502	PROG_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
12/28/2024 18:36	16301	ALPA_T1	0	1	1	0	0	0	0.07	0.07	0	0	0	0	0	0
12/28/2024 18:36	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/28/2024 18:36	12006	HATF_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
12/28/2024 18:36	12005	HATF_T1	3	2	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/28/2024 18:36	13302	ORVI_T2	5	13	8	0.14	0.22	0.08	1.2	1.13	0	0	0	0	0	0
12/28/2024 18:37	23404	HONE_T1	16	59	43	0.11	0.23	0.12	0	0	0	0	0	0	0	0
12/28/2024 18:37	28805	LAKE_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
12/28/2024 18:37	63304	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/28/2024 18:37	63601	LETO_T1	0	5	5	0	0.22	0.22	-0.25	-0.27	1	1	0	900	900	0
12/28/2024 18:37	63305	GREE_T1	15	15	0	0.26	0.47	0.21	-2.69	-2.71	1	1	0	900	900	0
12/28/2024 18:37	23403	HONE_T1	34	150	116	0.16	0.2	0.04	-0.77	-0.73	0	0	0	0	0	0
12/28/2024 18:37	57205	ROSS_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
12/28/2024 18:38	63601	LETO_T1	0	5	5	0	0.22	0.22	-0.25	-0.27	1	1	0	900	900	0
12/28/2024 18:38	13302	ORVI_T2	5	13	8	0.14	0.22	0.08	1.2	1.13	0	0	0	0	0	0
12/28/2024 18:38	14602	SWHI_T1	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
12/28/2024 18:38	61503	EPET_T1	0	0	0	0	0	0	-1.17	-1.19	0	0	0	0	0	0
12/28/2024 18:38	12002	HATF_T1	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
12/28/2024 18:38	12005	HATF_T1	3	2	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/28/2024 18:38	14601	SWHI_T1	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
12/28/2024 18:38	27604	PIRI_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
12/28/2024 18:38	46602	LACR_T1	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
12/28/2024 18:38	52502	PROG_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
12/28/2024 18:39	65207	PRIN_T4	2	3	1	3.8	0.87	-2.93	0	0	1	1	0	1200	1200	0
12/28/2024 18:39	41902	REED_T1	5	4	-1	0.96	0.3	-0.66	0.9	0.89	0	0	0	0	0	0
12/28/2024 18:39	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
12/28/2024 18:39	64701	LITI_T1	0	0	0	0	0	0	0.02	0.05	0	0	0	0	0	0
12/28/2024 18:40	40602	PIGR_T1	1	1	0	3.4	3	-0.4	-0.65	-0.59	1	1	0	600	600	0
12/28/2024 18:40	16301	ALPA_T1	0	1	1	0	0	0	0.07	0.07	0	0	0	0	0	0
12/28/2024 18:40	57301	MOAL_T2	0	0	0	0	0	0	-3.11	-3.13	0	0	0	0	0	0
12/28/2024 18:40	52004	LING_T2	2	3	1	4.35	4.65	0.3	0	0	0	0	0	0	0	0
12/28/2024 18:40	57303	MOAL_T2	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
12/28/2024 18:40	13303	ORVI_T1	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
12/28/2024 18:41	45602	WOOL_T1	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
12/28/2024 18:41	63306	GREE_T1	0	0	0	0	0	0	-2.16	-2.13	1	1	0	900	900	0
12/28/2024 18:41	24103	EHAZ_T1	0	0	0	0	0	0	-1.63	-1.61	0	0	0	0	0	0
12/28/2024 18:41	24105	EHAZ_T1	4	4	0	6.48	6.2	-0.28	0	0	0	0	0	0	0	0
12/28/2024 18:41	63304	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/28/2024 18:41	46206	DANV_T2	4	2	-2	0.35	0.1	-0.25	1.37	1.41	2	2	0	2100	2100	0
12/28/2024 18:41	24101	EHAZ_T1	16	20	4	1.21	0.92	-0.29	0	0	0	0	0	0	0	0
12/28/2024 18:41	63305	GREE_T1	15	15	0	0.26	0.47	0.21	0	0	0	0	0	0	0	0
12/28/2024 18:41	52004	LING_T2	2	3	1	4.35	4.65	0.3	0	0	0	0	0	0	0	0
12/28/2024 18:41	52002	LING_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
12/28/2024 18:41	40602	PIGR_T1	1	1	0	3.4	3	-0.4	-0.65	-0.59	1	1	0	600	600	0
12/28/2024 18:41	24102	EHAZ_T1	11	9	-2	0.61	0.7	0.09	0	0	0	0	0	0	0	0
12/28/2024 18:42	60201	ATGL_T2	1	5	4	0.1	0.12	0.02	-0.44	-0.43	0	0	0	0	0	0
12/28/2024 18:42	62106	ELAN_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
12/28/2024 18:42	46203	DANV_T2	0	0	0	0	0	0	-1.93	-1.94	0	0	0	0	0	0
12/28/2024 18:42	46206	DANV_T2	4	2	-2	0.35	0.1	-0.25	1.37	1.41	2	2	0	2100	2100	0
12/28/2024 18:42	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/28/2024 18:42	45602	WOOL_T1	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
12/28/2024 18:43	52002	LING_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/28/2024 18:43	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 18:43	44502	HAMI_T2	1	1	0	1.9	2.1	0.2	0	0	0	0	0	0	0	0
12/28/2024 18:43	52004	LING_T2	2	3	1	4.35	4.65	0.3	0	0	0	0	0	0	0	0
12/28/2024 18:43	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 18:43	44701	MUNC_T2	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/28/2024 18:44	52001	LING_T1	0	0	0	0	0	0	-1.05	-1.06	0	0	0	0	0	0
12/28/2024 18:44	11103	EGYP_T1	1	0	-1	2.4	0	-2.4	0	0	0	0	0	0	0	0
12/28/2024 18:44	11104	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 18:44	10801	CHHI_T1	0	0	0	0	0	0	-2.14	-2.14	3	3	0	2100	2100	0
12/28/2024 18:45	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 18:45	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/28/2024 18:45	63304	GREE_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
12/28/2024 18:45	52004	LING_T2	2	3	1	4.35	4.65	0.3	0.03	0.05	0	0	0	0	0	0
12/28/2024 18:45	63303	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 18:45	63305	GREE_T1	15	15	0	0.35	0.5	0.15	-2.69	-2.71	1	1	0	900	900	0
12/28/2024 18:45	43801	SWIL_T1	2	4	2	3.3	1.7	-1.6	0	0	0	0	0	0	0	0
12/28/2024 18:45	62105	ELAN_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
12/28/2024 18:46	44901	SCOT_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
12/28/2024 18:46	44902	SCOT_T2	0	0	0	0	0	0	-0.97	-0.9	0	0	0	0	0	0
12/28/2024 18:46	58402	MORO_T1	0	0	0	0	0	0	-0.73	-0.8	2	2	0	1350	1350	0
12/28/2024 18:46	63801	HEMP_T1	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
12/28/2024 18:46	42802	SELI_T1	0	0	0	0	0	0	-1.73	-1.72	0	0	0	0	0	0
12/28/2024 18:46	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 18:46	61503	EPET_T1	0	0	0	0	0	0	-1.17	-1.19	0	0	0	0	0	0
12/28/2024 18:46	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
12/28/2024 18:46	44502	HAMI_T2	1	1	0	1.9	2.2	0.3	0	0	0	0	0	0	0	0
12/28/2024 18:47	46001	BERW_T1	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
12/28/2024 18:47	60801	BUCK_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
12/28/2024 18:47	64201	KINZ_T1	5	8	3	0.28	0.3	0.02	0	0	0	0	0	0	0	0
12/28/2024 18:47	20601	GRWO_T2	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
12/28/2024 18:47	41902	REED_T1	4	1	-3	0.63	0	-0.63	0.9	0.89	0	0	0	0	0	0
12/28/2024 18:47	64203	KINZ_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
12/28/2024 18:47	45501	DERR_T2	1	1	0	0.5	0	-0.5	-1.42	-1.4	4	4	0	3600	3600	0
12/28/2024 18:47	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/28/2024 18:47	52502	PROG_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
12/28/2024 18:47	20603	GRWO_T2	0	7	7	0	0.18	0.18	-0.53	-0.56	1	1	0	900	900	0
12/28/2024 18:47	64202	KINZ_T1	0	8	8	0	0.19	0.19	0	0	0	0	0	0	0	0
12/28/2024 18:47	64204	KINZ_T1	1	13	12	0.8	0.19	-0.61	0	0	0	0	0	0	0	0
12/28/2024 18:48	60801	BUCK_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
12/28/2024 18:48	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
12/28/2024 18:48	61002	DONV_T2	0	0	0	0	0	0	-0.88	-0.85	1	1	0	600	600	0
12/28/2024 18:48	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/28/2024 18:48	58401	MORO_T1	0	0	0	0	0	0	-1.13	-1.13	1	1	0	600	600	0
12/28/2024 18:48	41902	REED_T1	4	1	-3	0.63	0	-0.63	0.9	0.89	0	0	0	0	0	0
12/28/2024 18:49	63302	GREE_T1	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
12/28/2024 18:49	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 18:49	43802	SWIL_T1	0	0	0	0	0	0	-0.19	-0.18	1	1	0	600	600	0
12/28/2024 18:49	63304	GREE_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
12/28/2024 18:49	63305	GREE_T1	15	15	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
12/28/2024 18:49	66505	SMAN_T2	3	3	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
12/28/2024 18:49	63801	HEMP_T1	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
12/28/2024 18:49	41902	REED_T1	4	1	-3	0.63	0	-0.63	0.9	0.89	0	0	0	0	0	0
12/28/2024 18:49	63303	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 18:49	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
12/28/2024 18:49	61304	EARL_T1	0	0	0	0	0	0	-0.99	-1	1	1	0	600	600	0
12/28/2024 18:49	43801	SWIL_T1	2	4	2	3.3	1.7	-1.6	0	0	0	0	0	0	0	0
12/28/2024 18:50	46206	DANV_T2	2	1	-1	0.3	0.1	-0.2	1.37	1.41	2	2	0	2100	2100	0
12/28/2024 18:50	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 18:50	22602	KIMB_T1	0	0	0	0	0	0	0.2	0.24	0	0	0	0	0	0
12/28/2024 18:50	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 18:50	55002	NEWP_T1	2	4	2	0.75	0.68	-0.07	-0.23	-0.24	0	0	0	0	0	0
12/28/2024 18:50	42701	AUGU_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/28/2024 18:51	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
12/28/2024 18:51	43402	BENT_T1	0	0	0	0	0	0	-1.56	-1.53	2	2	0	1500	1500	0
12/28/2024 18:51	58401	MORO_T1	0	0	0	0	0	0	-1.13	-1.16	1	1	0	600	600	0
12/28/2024 18:51	40602	PIGR_T1	1	1	0	3.6	3	-0.6	0	0	0	0	0	0	0	0
12/28/2024 18:51	44502	HAMI_T2	1	1	0	1.9	2.2	0.3	0	0	0	0	0	0	0	0
12/28/2024 18:51	45802	HEGI_T2	26	43	17	0.42	0.52	0.1	0.58	0.57	0	0	0	0	0	0
12/28/2024 18:51	44505	HAMI_T2	0	0	0	0	0	0	0.25	0.28	0	0	0	0	0	0
12/28/2024 18:51	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/28/2024 18:52	65502	MOJO_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
12/28/2024 18:53	28805	LAKE_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
12/28/2024 18:53	45501	DERR_T2	1	1	0	0.5	0	-0.5	-0.7	-0.74	2	2	0	1800	1800	0
12/28/2024 18:53	44505	HAMI_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
12/28/2024 18:53	44502	HAMI_T2	1	1	0	1.9	2.2	0.3	0	0	0	0	0	0	0	0
12/28/2024 18:54	40602	PIGR_T1	1	1	0	3.6	3	-0.6	-1.18	-1.22	2	2	0	1200	1200	0
12/28/2024 18:54	22602	KIMB_T1	0	0	0	0	0	0	0.24	0.14	0	0	0	0	0	0
12/28/2024 18:56	23401	HONE_T2	0	0	0	0	0	0	-0.02	-0.14	0	0	0	0	0	0
12/28/2024 19:03	47102	MARL_T2	53	63	10	0.38	0.39	0.01	0	0	0	0	0	0	0	0
12/28/2024 19:03	47103	MARL_T2	57	60	3	0.47	0.53	0.06	-0.51	-0.54	0	0	0	0	0	0
12/28/2024 19:05	44503	HAMI_T2	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
12/28/2024 19:05	44502	HAMI_T2	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
12/28/2024 19:26	40602	PIGR_T1	1	1	0	3	3	0	0	0	0	0	0	0	0	0
12/28/2024 19:27	65205	PRIN_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
12/28/2024 19:27	65202	PRIN_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/28/2024 19:44	16301	ALPA_T1	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
12/28/2024 20:07	52502	PROG_T2	0	0	0	0	0	0	0.42	0.37	0	0	0	0	0	0
12/29/2024 8:45	64204	KINZ_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/29/2024 8:45	64203	KINZ_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
12/29/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
12/29/2024 9:08	67503	WEWI_T2	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
12/29/2024 9:32	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/29/2024 9:32	64203	KINZ_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
12/29/2024 9:52	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 9:59	63501	HEID_TBK1-2	31	35	4	0.46	0.53	0.07	-0.6	-0.61	1	1	0	900	900	0
12/29/2024 10:02	41303	FISH_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/29/2024 10:02	41301	FISH_T1	120	115	-5	0.39	0.33	-0.06	-0.41	-0.4	0	0	0	0	0	0
12/29/2024 10:02	41305	FISH_T1	9	3	-6	0.18	0.27	0.09	0	0	0	0	0	0	0	0
12/29/2024 10:10	60803	BUCK_T1	5	18	13	0.2	0.38	0.18	0	0	0	0	0	0	0	0
12/29/2024 10:10	60801	BUCK_T1	28	59	31	0.17	0.45	0.28	-0.21	-0.23	0	0	0	0	0	0
12/29/2024 10:13	60803	BUCK_T1	5	18	13	0.2	0.38	0.18	-1.65	-1.65	3	3	0	1800	1800	0
12/29/2024 10:13	60801	BUCK_T1	28	59	31	0.17	0.45	0.28	-0.21	-0.23	0	0	0	0	0	0
12/29/2024 10:14	26704	HEML_T2	0	0	0	0	0	0	-0.82	-0.84	1	1	0	1200	1200	0
12/29/2024 10:14	60803	BUCK_T1	5	18	13	0.2	0.38	0.18	-0.55	-0.55	1	1	0	600	600	0
12/29/2024 10:14	60801	BUCK_T1	28	59	31	0.17	0.45	0.28	0	0	0	0	0	0	0	0
12/29/2024 10:16	60803	BUCK_T1	17	19	2	0.34	0.42	0.08	-0.55	-0.55	1	1	0	600	600	0
12/29/2024 10:16	60801	BUCK_T1	55	63	8	0.35	0.43	0.08	0	0	0	0	0	0	0	0
12/29/2024 10:30	61304	EARL_T1	0	0	0	0	0	0	-0.95	-0.94	1	1	0	600	600	0
12/29/2024 10:40	60201	ATGL_T2	2	4	2	0.2	0.15	-0.05	0.45	0.46	0	0	0	0	0	0
12/29/2024 10:44	46206	DANV_T2	4	1	-3	0.6	0	-0.6	1.47	1.45	2	2	0	2100	2100	0
12/29/2024 10:44	46204	DANV_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
12/29/2024 10:45	46206	DANV_T2	1	1	0	0	0	0	1.47	1.45	2	2	0	2100	2100	0
12/29/2024 10:45	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 10:46	63501	HEID_TBK1-2	31	37	6	0.34	0.58	0.24	-0.52	-0.52	1	1	0	900	900	0
12/29/2024 10:48	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 10:49	65503	MOJO_T2	0	0	0	0	0	0	-0.39	-0.36	0	0	0	0	0	0
12/29/2024 10:50	65502	MOJO_T2	0	0	0	0	0	0	-2.1	-1.98	0	0	0	0	0	0
12/29/2024 10:51	64101	REFR_T1	0	0	0	0	0	0	-0.4	-0.48	0	0	0	0	0	0
12/29/2024 10:52	64101	REFR_T1	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
12/29/2024 10:53	65202	PRIN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
12/29/2024 10:53	65205	PRIN_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
12/29/2024 10:53	64101	REFR_T1	0	0	0	0	0	0	-0.32	-0.4	0	0	0	0	0	0
12/29/2024 10:54	64101	REFR_T1	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
12/29/2024 10:55	64101	REFR_T1	0	0	0	0	0	0	-0.32	-0.4	0	0	0	0	0	0
12/29/2024 10:56	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 10:58	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 10:59	60201	ATGL_T2	1	4	3	0.1	0.15	0.05	0.46	0.45	0	0	0	0	0	0
12/29/2024 11:06	40602	PIGR_T1	1	1	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
12/29/2024 11:07	40602	PIGR_T1	1	1	0	1.9	1.7	-0.2	-1.89	-1.99	1	1	0	600	600	0
12/29/2024 11:09	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/29/2024 11:09	66502	SMAN_T2	0	0	0	0	0	0	0	-0.18	0	0	0	0	0	0
12/29/2024 11:12	44801	EDAN_T2	0	1	1	0	0	0	-0.44	-0.47	0	0	0	0	0	0
12/29/2024 11:18	52004	LING_T2	2	2	0	4.4	4.35	-0.05	0.04	0	0	0	0	0	0	0
12/29/2024 11:18	13303	ORVI_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
12/29/2024 11:26	14601	SWHI_T1	0	0	0	0	0	0	-1.64	-1.68	0	0	0	0	0	0
12/29/2024 11:27	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 11:33	65502	MOJO_T2	0	2	2	0	0.1	0.1	-1.07	-1.41	0	0	0	0	0	0
12/29/2024 11:34	63601	LETO_T1	5	5	0	0.42	0.6	0.18	0.29	0.15	1	1	0	900	900	0
12/29/2024 11:35	65503	MOJO_T2	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
12/29/2024 11:35	65502	MOJO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/29/2024 11:36	65502	MOJO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/29/2024 11:37	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.58	-0.5	0	0	0	0	0	0
12/29/2024 11:37	65503	MOJO_T2	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
12/29/2024 11:37	65502	MOJO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/29/2024 11:40	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	-1.16	-1.01	0	0	0	0	0	0
12/29/2024 11:42	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/29/2024 11:44	45801	HEGI_T1	0	0	0	0	0	0	-1.19	-1.18	1	1	0	900	900	0
12/29/2024 11:46	61001	DONV_T1	1	0	-1	0.6	0	-0.6	0.56	0.48	0	0	0	0	0	0
12/29/2024 11:56	10602	BLGL_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
12/29/2024 11:58	10801	CHHI_T1	0	0	0	0	0	0	-2.15	-2.14	3	3	0	2100	2100	0
12/29/2024 11:59	46206	DANV_T2	2	1	-1	0.35	0.2	-0.15	1.4	1.44	2	2	0	2100	2100	0
12/29/2024 11:59	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/29/2024 12:00	10805	CHHI_T2	1	7	6	7.9	7.7	-0.2	-1.59	-1.65	1	1	0	600	600	0
12/29/2024 12:00	11301	EMMA_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
12/29/2024 12:02	63801	HEMP_T1	0	0	0	0	0	0	-0.22	-0.28	0	0	0	0	0	0
12/29/2024 12:02	63804	HEMP_T1	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
12/29/2024 12:06	13302	ORVI_T2	2	4	2	0.1	0.38	0.28	1.4	1.45	0	0	0	0	0	0
12/29/2024 12:08	13302	ORVI_T2	2	4	2	0.1	0.38	0.28	4.21	4.35	0	0	0	0	0	0
12/29/2024 12:14	54506	ENOL_T2	0	0	0	0	0	0	0.32	0.29	0	1	1	0	600	600
12/29/2024 12:16	45501	DERR_T2	0	0	0	0	0	0	-1.26	-1.4	4	4	0	3600	3600	0
12/29/2024 12:19	63501	HEID_TBK1-2	34	34	0	0.34	0.35	0.01	-1.02	-1.04	2	2	0	1800	1800	0
12/29/2024 12:30	10801	CHHI_T1	0	0	0	0	0	0	-2.15	-2.16	3	3	0	2100	2100	0
12/29/2024 12:32	16102	BING_T2	5	0	-5	0.2	0	-0.2	-0.13	-0.15	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/29/2024 12:32	16103	BING_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/29/2024 12:34	40602	PIGR_T1	3	1	-2	0.57	1.2	0.63	0	0	0	0	0	0	0	0
12/29/2024 12:35	63804	HEMP_T1	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
12/29/2024 12:35	63801	HEMP_T1	0	0	0	0	0	0	-0.3	-0.26	0	0	0	0	0	0
12/29/2024 12:47	47101	MARL_T1	6	5	-1	0.13	0	-0.13	-0.16	-0.08	0	0	0	0	0	0
12/29/2024 12:50	47103	MARL_T2	2	2	0	0.2	0.2	0	-0.56	-0.63	0	0	0	0	0	0
12/29/2024 12:50	40602	PIGR_T1	1	1	0	1.2	1.3	0.1	-4.11	-4.11	2	2	0	1200	1200	0
12/29/2024 12:50	47102	MARL_T2	13	13	0	0.12	0.21	0.09	0	0	0	0	0	0	0	0
12/29/2024 12:51	47102	MARL_T2	13	13	0	0.12	0.21	0.09	0	0	0	0	0	0	0	0
12/29/2024 12:51	47103	MARL_T2	2	2	0	0.2	0.2	0	-0.56	-0.63	0	0	0	0	0	0
12/29/2024 12:51	47101	MARL_T1	6	5	-1	0.13	0	-0.13	-0.16	-0.08	0	0	0	0	0	0
12/29/2024 12:53	42802	SELI_T1	0	0	0	0	0	0	-1.75	-1.74	0	0	0	0	0	0
12/29/2024 12:54	40602	PIGR_T1	1	1	0	1.2	1.3	0.1	-2.05	-2.05	1	1	0	600	600	0
12/29/2024 13:03	64501	LAVI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/29/2024 13:03	64503	LAVI_T1	24	30	6	0.33	0.41	0.08	-1.24	-1.2	1	1	0	1200	1200	0
12/29/2024 13:03	64502	LAVI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/29/2024 13:04	64502	LAVI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/29/2024 13:04	64503	LAVI_T1	24	30	6	0.33	0.41	0.08	-1.24	-1.2	1	1	0	1200	1200	0
12/29/2024 13:04	64501	LAVI_T1	1	1	0	0.1	0.2	0.1	-0.41	-0.39	0	0	0	0	0	0
12/29/2024 13:05	64501	LAVI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/29/2024 13:05	64502	LAVI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/29/2024 13:05	64503	LAVI_T1	24	30	6	0.33	0.41	0.08	-1.24	-1.2	1	1	0	1200	1200	0
12/29/2024 13:06	64503	LAVI_T1	24	30	6	0.33	0.41	0.08	-1.24	-1.2	1	1	0	1200	1200	0
12/29/2024 13:06	64502	LAVI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/29/2024 13:06	64501	LAVI_T1	1	1	0	0.1	0.2	0.1	-0.41	-0.39	0	0	0	0	0	0
12/29/2024 13:09	44901	SCOT_T2	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
12/29/2024 13:13	61305	EARL_T1	0	0	0	0	0	0	-0.14	-0.17	1	1	0	600	600	0
12/29/2024 13:15	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 13:21	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 13:38	14603	SWHI_T1	0	0	0	0	0	0	-1.65	-1.66	2	2	0	1200	1200	0
12/29/2024 13:40	14603	SWHI_T1	0	0	0	0	0	0	-1.65	-1.66	2	2	0	1200	1200	0
12/29/2024 13:46	11301	EMMA_T1	0	0	0	0	0	0	-0.85	-0.87	0	0	0	0	0	0
12/29/2024 13:46	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 13:48	52004	LING_T2	2	2	0	4.5	4.45	-0.05	-0.03	0	0	0	0	0	0	0
12/29/2024 13:50	52004	LING_T2	2	2	0	4.5	4.45	-0.05	-0.03	0	0	0	0	0	0	0
12/29/2024 13:52	64101	REFR_T1	1	0	-1	0.3	0	-0.3	-0.21	-0.21	0	0	0	0	0	0
12/29/2024 13:53	64101	REFR_T1	1	0	-1	0.3	0	-0.3	-0.21	-0.21	0	0	0	0	0	0
12/29/2024 13:54	64101	REFR_T1	1	0	-1	0.3	0	-0.3	-0.43	-0.41	0	0	0	0	0	0
12/29/2024 14:04	12006	HATF_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
12/29/2024 14:04	12005	HATF_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
12/29/2024 14:08	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 14:10	64501	LAVI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/29/2024 14:10	64503	LAVI_T1	16	32	16	0.24	0.3	0.06	-1.21	-1.27	1	1	0	1200	1200	0
12/29/2024 14:15	45802	HEGI_T2	4	6	2	0.18	0.13	-0.05	0.13	0.14	1	1	0	900	900	0
12/29/2024 14:16	45802	HEGI_T2	4	6	2	0.18	0.13	-0.05	0.13	0.14	1	1	0	900	900	0
12/29/2024 14:34	20601	GRWO_T2	1	2	1	0.1	0.15	0.05	-0.29	-0.31	0	0	0	0	0	0
12/29/2024 14:34	20603	GRWO_T2	20	32	12	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
12/29/2024 14:51	15603	NSTR_T2	0	0	0	0	0	0	-1.3	-1.24	0	0	0	0	0	0
12/29/2024 14:57	45501	DERR_T2	1	0	-1	0.1	0	-0.1	-0.75	-0.75	2	2	0	1800	1800	0
12/29/2024 15:00	45501	DERR_T2	0	0	0	0	0	0	-0.75	-0.75	2	2	0	1800	1800	0
12/29/2024 15:02	16101	BING_T2	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
12/29/2024 15:02	16102	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/29/2024 15:03	52004	LING_T2	2	2	0	4.45	4.4	-0.05	-0.04	-0.03	0	0	0	0	0	0
12/29/2024 15:04	52004	LING_T2	2	2	0	4.45	4.4	-0.05	-0.04	-0.03	0	0	0	0	0	0
12/29/2024 15:10	10602	BLGL_T2	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
12/29/2024 15:16	44503	HAMI_T2	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
12/29/2024 15:16	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
12/29/2024 15:16	44502	HAMI_T2	1	1	0	2.3	2.6	0.3	0	0	0	0	0	0	0	0
12/29/2024 15:28	17805	GILB_T2	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
12/29/2024 15:30	17805	GILB_T2	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
12/29/2024 15:44	11507	FREE_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
12/29/2024 15:53	60801	BUCK_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/29/2024 15:53	60803	BUCK_T1	3	3	0	0.3	0.3	0	0.03	0	0	0	0	0	0	0
12/29/2024 15:58	60803	BUCK_T1	3	3	0	0.3	0.3	0	0.01	0	0	0	0	0	0	0
12/29/2024 15:58	60801	BUCK_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/29/2024 16:08	60803	BUCK_T1	161	3	-158	3.33	0.43	-2.9	0	0.03	0	0	0	0	0	0
12/29/2024 18:22	47102	MARL_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
12/29/2024 18:22	47103	MARL_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
12/29/2024 18:25	44504	HAMI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 18:25	44502	HAMI_T2	1	2	1	2.6	2.5	-0.1	0	0	0	0	0	0	0	0
12/29/2024 18:25	44503	HAMI_T2	0	0	0	0	0	0	-0.83	-0.89	0	0	0	0	0	0
12/29/2024 18:25	44501	HAMI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 18:27	26704	HEML_T2	0	0	0	0	0	0	-0.86	-0.84	1	1	0	1200	1200	0
12/29/2024 18:28	10805	CHHI_T2	1	1	0	7.9	7.6	-0.3	-1.67	-1.68	1	1	0	600	600	0
12/29/2024 18:29	42802	SELI_T1	0	0	0	0	0	0	-1.79	-1.74	0	0	0	0	0	0
12/29/2024 18:31	15603	NSTR_T2	0	0	0	0	0	0	-1.26	-1.29	0	0	0	0	0	0
12/29/2024 18:31	22602	KIMB_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
12/29/2024 18:31	60801	BUCK_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
12/29/2024 18:32	17805	GILB_T2	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
12/29/2024 18:33	52002	LING_T2	1	2	1	0.4	0.9	0.5	0	0	0	0	0	0	0	0
12/29/2024 18:33	52004	LING_T2	2	2	0	3.95	4.05	0.1	0	0	0	0	0	0	0	0
12/29/2024 18:34	45501	DERR_T2	0	0	0	0	0	0	-0.77	-0.8	2	2	0	1800	1800	0
12/29/2024 18:36	10801	CHHI_T1	0	0	0	0	0	0	-4.41	0	6	6	0	4200	4200	0
12/29/2024 18:36	46206	DANV_T2	0	0	0	0	0	0	-0.32	-0.36	2	2	0	2100	2100	0
12/29/2024 18:36	65503	MOJO_T2	0	1	1	0	0.1	0.1	-0.38	-0.41	0	0	0	0	0	0
12/29/2024 18:36	65502	MOJO_T2	0	71	71	0	0.11	0.11	0	0	0	0	0	0	0	0
12/29/2024 18:36	20601	GRWO_T2	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
12/29/2024 18:37	42701	AUGU_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/29/2024 18:38	46206	DANV_T2	0	0	0	0	0	0	-0.36	0.46	2	2	0	2100	2100	0
12/29/2024 18:38	13302	ORVI_T2	2	2	0	0.15	0.2	0.05	1.39	1.44	0	0	0	0	0	0
12/29/2024 18:38	45501	DERR_T2	0	0	0	0	0	0	-0.8	-0.83	2	2	0	1800	1800	0
12/29/2024 18:38	11301	EMMA_T1	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
12/29/2024 18:39	60801	BUCK_T1	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
12/29/2024 18:39	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
12/29/2024 18:39	63501	HEID_TBK1-2	25	36	11	0.18	0.3	0.12	-0.44	-0.5	1	1	0	900	900	0
12/29/2024 18:40	66504	SMAN_T2	0	0	0	0	0	0	-3.71	-1.17	2	0	-2	2400	0	-2400
12/29/2024 18:40	16101	BING_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
12/29/2024 18:40	10602	BLGL_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
12/29/2024 18:40	64501	LAVI_T1	36	94	58	0.15	0.25	0.1	0	0	0	0	0	0	0	0
12/29/2024 18:40	65503	MOJO_T2	0	1	1	0	0.1	0.1	-0.41	-0.39	0	0	0	0	0	0
12/29/2024 18:40	16102	BING_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
12/29/2024 18:40	14603	SWHI_T1	0	0	0	0	0	0	-1.68	-1.66	2	2	0	1200	1200	0
12/29/2024 18:40	45501	DERR_T2	0	0	0	0	0	0	-1.61	-1.67	4	4	0	3600	3600	0
12/29/2024 18:40	42701	AUGU_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/29/2024 18:40	40602	PIGR_T1	1	1	0	1.4	1.1	-0.3	-2.05	-2.05	1	1	0	600	600	0
12/29/2024 18:40	65502	MOJO_T2	0	71	71	0	0.11	0.11	0	0	0	0	0	0	0	0
12/29/2024 18:40	45801	HEGI_T1	0	0	0	0	0	0	-1.17	-1.17	1	1	0	900	900	0
12/29/2024 18:40	65205	PRIN_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
12/29/2024 18:40	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 18:40	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/29/2024 18:40	64503	LAVI_T1	58	182	124	0.47	0.3	-0.17	-1.28	-1.09	1	1	0	1200	1200	0
12/29/2024 18:40	65202	PRIN_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/29/2024 18:40	64502	LAVI_T1	151	250	99	0.19	0.28	0.09	0	0	0	0	0	0	0	0
12/29/2024 18:40	13303	ORVI_T1	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
12/29/2024 18:41	64503	LAVI_T1	58	182	124	0.47	0.3	-0.17	-1.28	-1.09	1	1	0	1200	1200	0
12/29/2024 18:41	63501	HEID_TBK1-2	25	36	11	0.18	0.3	0.12	0	0	0	0	0	0	0	0
12/29/2024 18:41	64502	LAVI_T1	151	250	99	0.19	0.28	0.09	0	0	0	0	0	0	0	0
12/29/2024 18:41	64501	LAVI_T1	36	94	58	0.15	0.25	0.1	0	0	0	0	0	0	0	0
12/29/2024 18:42	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/29/2024 18:42	66504	SMAN_T2	0	0	0	0	0	0	-1.86	-0.59	1	0	-1	1200	0	-1200
12/29/2024 18:42	12006	HATF_T1	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
12/29/2024 18:42	54506	ENOL_T2	0	0	0	0	0	0	-0.76	-0.81	1	0	-1	600	0	-600
12/29/2024 18:42	63601	LETO_T1	2	3	1	0.2	0.17	-0.03	0.39	0.4	1	1	0	900	900	0
12/29/2024 18:42	13302	ORVI_T2	2	2	0	0.15	0.2	0.05	1.39	1.44	0	0	0	0	0	0
12/29/2024 18:42	11507	FREE_T2	0	4	4	0	0	0	0.18	0.15	0	0	0	0	0	0
12/29/2024 18:42	12005	HATF_T1	4	5	1	0.35	0.38	0.03	0	0	0	0	0	0	0	0
12/29/2024 18:43	63501	HEID_TBK1-2	25	36	11	0.18	0.3	0.12	-0.44	-0.5	1	1	0	900	900	0
12/29/2024 18:43	65503	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/29/2024 18:43	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
12/29/2024 18:43	65502	MOJO_T2	0	71	71	0	0.11	0.11	-1.22	-1.26	0	0	0	0	0	0
12/29/2024 18:43	45802	HEGI_T2	15	19	4	0.37	0.31	-0.06	0.12	0.1	1	1	0	900	900	0
12/29/2024 18:44	40602	PIGR_T1	1	1	0	1.4	1.1	-0.3	-2.05	-2.05	1	1	0	600	600	0
12/29/2024 18:44	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/29/2024 18:44	45802	HEGI_T2	15	19	4	0.37	0.31	-0.06	0.12	0.1	1	1	0	900	900	0
12/29/2024 18:44	60201	ATGL_T2	0	0	0	0	0	0	0.47	0.5	0	0	0	0	0	0
12/29/2024 18:44	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 18:45	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
12/29/2024 18:45	44801	EDAN_T2	0	1	1	0	0.1	0.1	-0.5	-0.5	0	0	0	0	0	0
12/29/2024 18:45	64503	LAVI_T1	181	319	138	0.3	0.36	0.06	0	0	0	0	0	0	0	0
12/29/2024 18:45	46206	DANV_T2	0	0	0	0	0	0	-0.36	0.46	2	2	0	2100	2100	0
12/29/2024 18:45	64502	LAVI_T1	247	292	45	0.28	0.39	0.11	0	0	0	0	0	0	0	0
12/29/2024 18:45	44901	SCOT_T2	0	0	0	0	0	0	-0.68	-0.73	0	0	0	0	0	0
12/29/2024 18:45	64501	LAVI_T1	93	123	30	0.25	0.33	0.08	-0.39	-0.38	0	0	0	0	0	0
12/29/2024 18:46	14601	SWHI_T1	0	0	0	0	0	0	-1.72	-1.74	0	0	0	0	0	0
12/29/2024 18:46	66502	SMAN_T2	0	0	0	0	0	0	-0.21	-0.33	0	0	0	0	0	0
12/29/2024 18:46	47101	MARL_T1	14	27	13	0.86	1.02	0.16	-0.14	-0.14	0	0	0	0	0	0
12/29/2024 18:46	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 18:46	61001	DONV_T1	0	0	0	0	0	0	-0.13	-0.08	0	0	0	0	0	0
12/29/2024 18:46	65503	MOJO_T2	0	17	17	0	0.12	0.12	-0.41	-0.39	0	0	0	0	0	0
12/29/2024 18:46	60201	ATGL_T2	0	0	0	0	0	0	0.47	0.5	0	0	0	0	0	0
12/29/2024 18:46	11301	EMMA_T1	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
12/29/2024 18:46	65502	MOJO_T2	1	182	181	0.1	0.16	0.06	0	0	0	0	0	0	0	0
12/29/2024 18:46	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/29/2024 18:46	41301	FISH_T1	1	1	0	2.4	2.5	0.1	-0.45	-0.46	0	0	0	0	0	0
12/29/2024 18:46	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
12/29/2024 18:46	13302	ORVI_T2	1	2	1	0.2	0.2	0	1.39	1.44	0	0	0	0	0	0
12/29/2024 18:47	63804	HEMP_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
12/29/2024 18:47	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 18:47	40602	PIGR_T1	1	1	0	1.2	1	-0.2	-2.05	-2.05	1	1	0	600	600	0
12/29/2024 18:47	64503	LAVI_T1	181	319	138	0.3	0.36	0.06	0	0	0	0	0	0	0	0
12/29/2024 18:47	63801	HEMP_T1	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
12/29/2024 18:47	64502	LAVI_T1	247	292	45	0.28	0.39	0.11	0	0	0	0	0	0	0	0
12/29/2024 18:47	64501	LAVI_T1	93	123	30	0.25	0.33	0.08	-0.39	-0.38	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/29/2024 18:48	65502	MOJO_T2	1	182	181	0.1	0.16	0.06	-1.22	-1.26	0	0	0	0	0	0
12/29/2024 18:48	14603	SWHI_T1	0	0	0	0	0	0	-1.68	-1.66	2	2	0	1200	1200	0
12/29/2024 18:48	65503	MOJO_T2	0	17	17	0	0.12	0.12	0	0	0	0	0	0	0	0
12/29/2024 18:48	52002	LING_T2	1	2	1	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
12/29/2024 18:48	64503	LAVI_T1	181	319	138	0.3	0.36	0.06	-1.28	-1.09	1	1	0	1200	1200	0
12/29/2024 18:48	64501	LAVI_T1	93	123	30	0.25	0.33	0.08	0	0	0	0	0	0	0	0
12/29/2024 18:48	66202	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 18:48	40602	PIGR_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
12/29/2024 18:48	52004	LING_T2	2	2	0	4.05	4.25	0.2	0	0	0	0	0	0	0	0
12/29/2024 18:48	64502	LAVI_T1	247	292	45	0.28	0.39	0.11	0	0	0	0	0	0	0	0
12/29/2024 18:48	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 18:49	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
12/29/2024 18:49	52002	LING_T2	1	2	1	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
12/29/2024 18:49	52004	LING_T2	2	2	0	4.05	4.25	0.2	0	0	0	0	0	0	0	0
12/29/2024 18:49	64501	LAVI_T1	93	123	30	0.25	0.33	0.08	0	0	0	0	0	0	0	0
12/29/2024 18:49	64502	LAVI_T1	247	292	45	0.28	0.39	0.11	0	0	0	0	0	0	0	0
12/29/2024 18:49	64503	LAVI_T1	181	319	138	0.3	0.36	0.06	-1.28	-1.09	1	1	0	1200	1200	0
12/29/2024 18:49	61304	EARL_T1	0	0	0	0	0	0	-1.04	-1.08	1	1	0	600	600	0
12/29/2024 18:50	63501	HEID_TBK1-2	35	41	6	0.29	0.64	0.35	-0.44	-0.5	1	1	0	900	900	0
12/29/2024 18:51	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 18:51	60501	NMAN_T2	0	12	12	0	0.17	0.17	0	0	0	0	0	0	0	0
12/29/2024 18:51	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
12/29/2024 18:52	40602	PIGR_T1	1	1	0	1.2	1	-0.2	-2.05	-2.05	1	1	0	600	600	0
12/29/2024 18:53	63501	HEID_TBK1-2	35	41	6	0.29	0.64	0.35	-0.5	-0.48	1	1	0	900	900	0
12/29/2024 18:54	65503	MOJO_T2	0	17	17	0	0.12	0.12	0	0	0	0	0	0	0	0
12/29/2024 18:54	65502	MOJO_T2	1	182	181	0.1	0.16	0.06	-1.26	-1.27	0	0	0	0	0	0
12/29/2024 18:56	16102	BING_T2	2	2	0	0.1	0.35	0.25	-0.19	-0.21	0	0	0	0	0	0
12/29/2024 18:56	64101	REFR_T1	0	0	0	0	0	0	-0.6	-0.48	0	0	0	0	0	0
12/29/2024 18:56	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/29/2024 18:56	65503	MOJO_T2	0	17	17	0	0.12	0.12	0	0	0	0	0	0	0	0
12/29/2024 18:56	65502	MOJO_T2	1	182	181	0.1	0.16	0.06	0	0	0	0	0	0	0	0
12/29/2024 18:58	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.16	0	0	0	0	0	0
12/29/2024 19:58	64501	LAVI_T1	130	141	11	0.35	0.47	0.12	0	0	0	0	0	0	0	0
12/29/2024 19:58	64503	LAVI_T1	394	424	30	0.45	0.57	0.12	-1.26	-1.19	1	1	0	1200	1200	0
12/29/2024 19:58	64502	LAVI_T1	300	343	43	0.48	0.61	0.13	0	0	0	0	0	0	0	0
12/29/2024 20:02	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
12/29/2024 20:02	64201	KINZ_T1	2	1	-1	1.7	1	-0.7	0	0	0	0	0	0	0	0
12/29/2024 20:02	64204	KINZ_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
12/29/2024 20:02	64203	KINZ_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
12/30/2024 8:01	26704	HEML_T2	0	3	3	0	0.1	0.1	-0.89	-0.88	1	1	0	1200	1200	0
12/30/2024 8:32	52001	LING_T1	0	0	0	0	0	0	0.11	0.18	0	0	0	0	0	0
12/30/2024 8:33	44502	HAMI_T2	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
12/30/2024 8:33	64204	KINZ_T1	1	12	11	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
12/30/2024 8:33	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 8:33	64202	KINZ_T1	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
12/30/2024 8:33	64203	KINZ_T1	0	0	0	0	0	0	0.07	0.12	1	1	0	600	600	0
12/30/2024 8:34	64202	KINZ_T1	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
12/30/2024 8:34	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 8:34	64204	KINZ_T1	1	12	11	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
12/30/2024 8:35	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
12/30/2024 8:36	44502	HAMI_T2	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
12/30/2024 8:36	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 8:39	46002	BERW_T2	0	0	0	0	0	0	-0.89	-0.83	1	1	0	900	900	0
12/30/2024 8:40	67103	SPRI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 8:42	52403	GRPA_T2	0	5	5	0	0.26	0.26	0	0	0	0	0	0	0	0
12/30/2024 8:42	52402	GRPA_T2	1	4	3	0.1	0.45	0.35	-0.79	-0.76	0	0	0	0	0	0
12/30/2024 8:44	62607	ENGL_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
12/30/2024 8:44	62605	ENGL_T1	0	64	64	0	0.13	0.13	-1.23	-1.22	0	0	0	0	0	0
12/30/2024 8:44	53501	EVIL_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
12/30/2024 8:44	62601	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/30/2024 8:44	62606	ENGL_T1	150	335	185	0.24	0.28	0.04	0	0	0	0	0	0	0	0
12/30/2024 8:44	53502	EVIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/30/2024 8:44	62604	ENGL_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
12/30/2024 8:45	62607	ENGL_T1	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
12/30/2024 8:45	62604	ENGL_T1	3	4	1	0.1	0.13	0.03	-0.4	-0.44	0	0	0	0	0	0
12/30/2024 8:45	62605	ENGL_T1	36	61	25	0.14	0.14	0	0	0	0	0	0	0	0	0
12/30/2024 8:45	62606	ENGL_T1	280	326	46	0.26	0.28	0.02	0	0	0	0	0	0	0	0
12/30/2024 8:45	62601	ENGL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/30/2024 8:47	58401	MORO_T1	0	0	0	0	0	0	-1.06	-1.01	1	1	0	600	600	0
12/30/2024 8:48	58401	MORO_T1	0	0	0	0	0	0	-1.06	-1.01	1	1	0	600	600	0
12/30/2024 8:49	65206	PRIN_T4	12	18	6	0.68	0.11	-0.57	0	0	0	0	0	0	0	0
12/30/2024 8:49	65201	PRIN_T4	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
12/30/2024 8:49	65207	PRIN_T4	10	21	11	0.56	0.32	-0.24	0	0	0	0	0	0	0	0
12/30/2024 8:52	14801	TREI_T2	0	0	0	0	0	0	0.37	0.31	0	0	0	0	0	0
12/30/2024 8:52	55102	WERT_T2	0	0	0	0	0	0	-0.86	-0.87	1	1	0	600	600	0
12/30/2024 8:56	44301	BEAV_T2	2	2	0	1.15	0.7	-0.45	0.18	-0.68	4	4	0	3000	3000	0
12/30/2024 8:57	44301	BEAV_T2	2	2	0	1.15	0.7	-0.45	0	0	0	0	0	0	0	0
12/30/2024 8:58	12006	HATF_T1	0	0	0	0	0	0	0.38	0.45	1	1	0	1200	1200	0
12/30/2024 8:58	20603	GRWO_T2	0	0	0	0	0	0	-0.7	-0.67	1	1	0	900	900	0
12/30/2024 8:58	20601	GRWO_T2	4	10	6	0.68	0.33	-0.35	0	0	0	0	0	0	0	0
12/30/2024 9:00	40601	PIGR_T1	1	7	6	0.1	0.17	0.07	0	0	0	0	0	0	0	0
12/30/2024 9:00	67503	WEWI_T2	0	1	1	0	1.2	1.2	-0.12	-0.12	0	0	0	0	0	0
12/30/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
12/30/2024 9:00	40602	PIGR_T1	1	1	0	1.2	1.4	0.2	-0.78	-0.75	1	1	0	600	600	0
12/30/2024 9:00	67502	WEWI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/30/2024 9:04	64802	MONE_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/30/2024 9:04	64801	MONE_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
12/30/2024 9:05	40602	PIGR_T1	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
12/30/2024 9:05	40601	PIGR_T1	1	7	6	0.1	0.17	0.07	-0.06	-0.1	0	0	0	0	0	0
12/30/2024 9:06	14801	TREI_T2	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
12/30/2024 9:07	40602	PIGR_T1	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
12/30/2024 9:07	40601	PIGR_T1	1	7	6	0.1	0.17	0.07	0	0	0	0	0	0	0	0
12/30/2024 9:08	55105	WERT_T1	0	0	0	0	0	0	-0.67	-0.65	1	1	0	900	900	0
12/30/2024 9:10	46002	BERW_T2	0	0	0	0	0	0	-0.89	-0.89	1	1	0	900	900	0
12/30/2024 9:10	14801	TREI_T2	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
12/30/2024 9:13	52403	GRPA_T2	5	5	0	0.26	0.32	0.06	0	0	0	0	0	0	0	0
12/30/2024 9:13	52402	GRPA_T2	3	3	0	0.57	0.27	-0.3	-0.76	-0.77	0	0	0	0	0	0
12/30/2024 9:15	64702	LITI_T2	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
12/30/2024 9:15	64202	KINZ_T1	3	2	-1	0.3	0.55	0.25	0	0	0	0	0	0	0	0
12/30/2024 9:15	64204	KINZ_T1	3	56	53	0.4	0.43	0.03	0	0	0	0	0	0	0	0
12/30/2024 9:15	64203	KINZ_T1	0	0	0	0	0	0	0.07	0.07	1	1	0	600	600	0
12/30/2024 9:16	64202	KINZ_T1	3	2	-1	0.3	0.55	0.25	0	0	0	0	0	0	0	0
12/30/2024 9:16	64204	KINZ_T1	3	56	53	0.4	0.43	0.03	0	0	0	0	0	0	0	0
12/30/2024 9:16	63501	HEID_TBK1-2	12	2	-10	0.13	0.65	0.52	0.49	0.53	0	0	0	0	0	0
12/30/2024 9:16	64702	LITI_T2	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
12/30/2024 9:16	64201	KINZ_T1	0	0	0	0	0	0	-0.2	-0.26	3	3	0	1500	1500	0
12/30/2024 9:17	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 9:17	44502	HAMI_T2	1	2	1	2.6	2.6	0	0	0	0	0	0	0	0	0
12/30/2024 9:18	44502	HAMI_T2	1	2	1	2.6	2.6	0	0	0	0	0	0	0	0	0
12/30/2024 9:18	44505	HAMI_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
12/30/2024 9:18	20601	GRWO_T2	4	5	1	0.3	0	-0.3	1.07	1.13	0	0	0	0	0	0
12/30/2024 9:19	64202	KINZ_T1	3	2	-1	0.3	0.55	0.25	0	0	0	0	0	0	0	0
12/30/2024 9:19	64801	MONE_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
12/30/2024 9:19	64802	MONE_T2	1	4	3	0.2	0.25	0.05	0.32	0.3	0	0	0	0	0	0
12/30/2024 9:19	64201	KINZ_T1	0	0	0	0	0	0	-0.2	-0.26	3	3	0	1500	1500	0
12/30/2024 9:19	64204	KINZ_T1	3	56	53	0.4	0.43	0.03	0	0	0	0	0	0	0	0
12/30/2024 9:20	13503	MCMI_T2	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
12/30/2024 9:20	40602	PIGR_T1	1	1	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
12/30/2024 9:20	40601	PIGR_T1	1	7	6	0.3	0.17	-0.13	-0.1	-0.11	0	0	0	0	0	0
12/30/2024 9:21	40601	PIGR_T1	1	7	6	0.3	0.17	-0.13	-0.1	-0.11	0	0	0	0	0	0
12/30/2024 9:21	40602	PIGR_T1	1	1	0	1.4	1.1	-0.3	-0.75	-0.74	1	1	0	600	600	0
12/30/2024 9:22	44502	HAMI_T2	1	2	1	2.6	2.6	0	0	0	0	0	0	0	0	0
12/30/2024 9:22	44505	HAMI_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
12/30/2024 9:23	40601	PIGR_T1	1	7	6	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
12/30/2024 9:23	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 9:23	40602	PIGR_T1	1	1	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
12/30/2024 9:24	64204	KINZ_T1	3	56	53	0.4	0.43	0.03	0	0	0	0	0	0	0	0
12/30/2024 9:24	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 9:24	64202	KINZ_T1	3	2	-1	0.3	0.55	0.25	0	0	0	0	0	0	0	0
12/30/2024 9:24	55102	WERT_T2	0	0	0	0	0	0	-0.87	-0.87	1	1	0	600	600	0
12/30/2024 9:25	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 9:26	55102	WERT_T2	0	0	0	0	0	0	-0.87	-0.87	1	1	0	600	600	0
12/30/2024 9:28	63501	HEID_TBK1-2	12	2	-10	0.13	0.65	0.52	0	0	0	0	0	0	0	0
12/30/2024 9:29	20603	GRWO_T2	0	0	0	0	0	0	-0.64	-0.69	1	1	0	900	900	0
12/30/2024 9:29	20601	GRWO_T2	4	5	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/30/2024 9:30	12001	HATF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/30/2024 9:30	52001	LING_T1	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
12/30/2024 9:30	12006	HATF_T1	0	0	0	0	0	0	0.51	0.39	1	1	0	1200	1200	0
12/30/2024 9:36	67002	STHI_T2	0	7	7	0	0.14	0.14	0	0	0	0	0	0	0	0
12/30/2024 9:36	67001	STHI_T2	1	3	2	0.5	0.3	-0.2	0.06	0.05	0	0	0	0	0	0
12/30/2024 9:37	67001	STHI_T2	1	3	2	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
12/30/2024 9:37	67002	STHI_T2	0	7	7	0	0.14	0.14	0.58	0.6	0	0	0	0	0	0
12/30/2024 9:38	67001	STHI_T2	1	3	2	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
12/30/2024 9:38	67002	STHI_T2	0	7	7	0	0.14	0.14	1.74	1.79	0	0	0	0	0	0
12/30/2024 9:38	14601	SWHI_T1	0	0	0	0	0	0	-0.94	-0.92	0	0	0	0	0	0
12/30/2024 9:38	14603	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/30/2024 9:40	67001	STHI_T2	1	3	2	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
12/30/2024 9:40	67002	STHI_T2	0	7	7	0	0.14	0.14	0.58	0.6	0	0	0	0	0	0
12/30/2024 9:45	63501	HEID_TBK1-2	2	2	0	0.65	0.5	-0.15	0.53	0.53	0	0	0	0	0	0
12/30/2024 9:46	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
12/30/2024 9:46	54502	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
12/30/2024 9:46	63501	HEID_TBK1-2	2	2	0	0.65	0.5	-0.15	1.59	1.59	0	0	0	0	0	0
12/30/2024 9:46	26704	HEML_T2	0	0	0	0	0	0	-0.84	-0.86	1	1	0	1200	1200	0
12/30/2024 9:46	54506	ENOL_T2	0	0	0	0	0	0	0.28	0.36	1	1	0	600	600	0
12/30/2024 9:47	52006	LING_T2	2	2	0	0.95	0.85	-0.1	0	0	0	0	0	0	0	0
12/30/2024 9:47	63501	HEID_TBK1-2	2	2	0	0.65	0.5	-0.15	0.53	0.53	0	0	0	0	0	0
12/30/2024 9:47	52004	LING_T2	2	4	2	6.4	3.35	-3.05	0.09	0.08	0	0	0	0	0	0
12/30/2024 9:47	52002	LING_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
12/30/2024 9:48	52004	LING_T2	2	4	2	6.4	3.35	-3.05	0.09	0.08	0	0	0	0	0	0
12/30/2024 9:48	52002	LING_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
12/30/2024 9:48	52006	LING_T2	2	2	0	0.95	0.85	-0.1	0	0	0	0	0	0	0	0
12/30/2024 9:51	57203	ROSS_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
12/30/2024 9:52	14705	TREX_T1	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/30/2024 9:52	14704	TREX_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
12/30/2024 9:53	40602	PIGR_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
12/30/2024 9:53	40601	PIGR_T1	4	7	3	0.13	0.16	0.03	0	0	0	0	0	0	0	0
12/30/2024 10:01	40101	HUNT_T2	1	5	4	0.4	1.2	0.8	-0.51	-0.48	0	0	0	0	0	0
12/30/2024 10:02	55507	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 10:03	24202	PROV_T4	13	13	0	0.15	0.1	-0.05	-0.86	-0.86	1	1	0	1200	1200	0
12/30/2024 10:03	24206	PROV_T4	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/30/2024 10:04	52502	PROG_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
12/30/2024 10:07	40601	PIGR_T1	7	2	-5	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
12/30/2024 10:07	40602	PIGR_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
12/30/2024 10:08	54601	SUMM_T2	12	12	0	0.74	0.67	-0.07	-1.89	-1.92	2	2	0	2100	2100	0
12/30/2024 10:08	40601	PIGR_T1	7	2	-5	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
12/30/2024 10:08	40602	PIGR_T1	1	1	0	1.1	1.1	0	-0.77	-0.75	1	1	0	600	600	0
12/30/2024 10:08	54603	SUMM_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/30/2024 10:08	54602	SUMM_T2	6	6	0	0.12	0.15	0.03	0	0	0	0	0	0	0	0
12/30/2024 10:09	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 10:09	55105	WERT_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/30/2024 10:16	52403	GRPA_T2	1	0	-1	0.7	0	-0.7	-0.06	-0.16	0	0	0	0	0	0
12/30/2024 10:16	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 10:16	58401	MORO_T1	0	0	0	0	0	0	-1.05	-1.06	1	1	0	600	600	0
12/30/2024 10:16	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 10:18	58401	MORO_T1	0	0	0	0	0	0	-3.15	-3.17	3	3	0	1800	1800	0
12/30/2024 10:19	44901	SCOT_T2	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
12/30/2024 10:20	58401	MORO_T1	0	0	0	0	0	0	-1.05	-1.06	1	1	0	600	600	0
12/30/2024 10:24	55105	WERT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/30/2024 10:24	10805	CHHI_T2	1	1	0	8.1	8.1	0	0	0	1	1	0	600	600	0
12/30/2024 10:24	55101	WERT_T1	0	0	0	0	0	0	-1.04	-0.97	2	2	0	1500	1500	0
12/30/2024 10:25	55101	WERT_T1	0	0	0	0	0	0	-1.04	-0.97	2	2	0	1500	1500	0
12/30/2024 10:25	55105	WERT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/30/2024 10:28	10805	CHHI_T2	1	1	0	8.1	8.1	0	0	0	1	1	0	600	600	0
12/30/2024 10:28	55507	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 10:33	52004	LING_T2	3	3	0	4.37	4.47	0.1	0.08	0.09	0	0	0	0	0	0
12/30/2024 10:33	52002	LING_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
12/30/2024 10:33	52006	LING_T2	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
12/30/2024 10:34	13303	ORVI_T1	0	0	0	0	0	0	0.94	0.93	0	0	0	0	0	0
12/30/2024 10:35	42802	SELI_T1	0	0	0	0	0	0	-1.49	-1.5	0	0	0	0	0	0
12/30/2024 10:37	59101	WALK_T2	0	0	0	0	0	0	1.11	1.2	0	0	0	0	0	0
12/30/2024 10:40	60803	BUCK_T1	16	17	1	0.44	0.54	0.1	0	0	0	0	0	0	0	0
12/30/2024 10:40	60801	BUCK_T1	2	14	12	0.35	0.2	-0.15	0.13	0.16	0	0	0	0	0	0
12/30/2024 10:41	60803	BUCK_T1	16	17	1	0.44	0.54	0.1	-0.52	-0.52	1	1	0	600	600	0
12/30/2024 10:41	60801	BUCK_T1	2	14	12	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
12/30/2024 10:42	60803	BUCK_T1	16	17	1	0.44	0.54	0.1	-1.56	-1.56	3	3	0	1800	1800	0
12/30/2024 10:42	60801	BUCK_T1	2	14	12	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
12/30/2024 10:42	10801	CHHI_T1	1	2	1	0.1	0.1	0	0	0	1	1	0	900	900	0
12/30/2024 10:43	60803	BUCK_T1	16	17	1	0.44	0.54	0.1	-0.52	-0.52	1	1	0	600	600	0
12/30/2024 10:43	60801	BUCK_T1	2	14	12	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
12/30/2024 10:44	45802	HEGI_T2	8	14	6	0.2	0.2	0	1.03	1.1	0	0	0	0	0	0
12/30/2024 10:44	10801	CHHI_T1	1	2	1	0.1	0.1	0	0	0	1	1	0	900	900	0
12/30/2024 10:45	60801	BUCK_T1	13	12	-1	0.21	0.18	-0.03	0.13	0.16	0	0	0	0	0	0
12/30/2024 10:45	45802	HEGI_T2	5	16	11	0.2	0.47	0.27	1.03	1.1	0	0	0	0	0	0
12/30/2024 10:45	66203	SISP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/30/2024 10:45	60803	BUCK_T1	16	14	-2	0.54	0.52	-0.02	0	0	0	0	0	0	0	0
12/30/2024 10:46	45802	HEGI_T2	5	16	11	0.2	0.47	0.27	0	0	0	0	0	0	0	0
12/30/2024 10:46	40101	HUNT_T2	7	100	93	0.37	0.3	-0.07	-0.45	-0.44	0	0	0	0	0	0
12/30/2024 10:47	65503	MOJO_T2	26	26	0	0.11	0.12	0.01	-1.09	-1.12	1	1	0	900	900	0
12/30/2024 10:47	65502	MOJO_T2	4	5	1	0.1	0.1	0	0	0	0	0	0	0	0	0
12/30/2024 10:48	13303	ORVI_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
12/30/2024 10:49	65503	MOJO_T2	26	26	0	0.11	0.12	0.01	0	0	0	0	0	0	0	0
12/30/2024 10:49	65502	MOJO_T2	4	5	1	0.1	0.1	0	0	0	0	0	0	0	0	0
12/30/2024 10:50	65503	MOJO_T2	26	26	0	0.11	0.12	0.01	0	0	0	0	0	0	0	0
12/30/2024 10:50	65502	MOJO_T2	4	5	1	0.1	0.1	0	-0.27	-0.22	0	0	0	0	0	0
12/30/2024 10:51	54602	SUMM_T2	6	10	4	0.17	0.22	0.05	0	0	0	0	0	0	0	0
12/30/2024 10:51	54601	SUMM_T2	12	12	0	0.62	0.6	-0.02	-1.92	-1.89	2	2	0	2100	2100	0
12/30/2024 10:51	65503	MOJO_T2	26	26	0	0.11	0.12	0.01	-1.09	-1.12	1	1	0	900	900	0
12/30/2024 10:51	65502	MOJO_T2	4	5	1	0.1	0.1	0	-0.27	-0.22	0	0	0	0	0	0
12/30/2024 10:51	54603	SUMM_T2	2	3	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/30/2024 10:51	57205	ROSS_T1	0	1	1	0	0.1	0.1	-0.21	-0.21	0	0	0	0	0	0
12/30/2024 10:52	54602	SUMM_T2	6	10	4	0.17	0.22	0.05	0	0	0	0	0	0	0	0
12/30/2024 10:52	54601	SUMM_T2	12	12	0	0.62	0.6	-0.02	-1.92	-1.89	2	2	0	2100	2100	0
12/30/2024 10:52	54603	SUMM_T2	2	3	1	0.2	0.1	-0.1	-0.36	-0.21	1	1	0	900	900	0
12/30/2024 10:52	65503	MOJO_T2	26	26	0	0.11	0.12	0.01	-1.12	-1.06	1	1	0	900	900	0
12/30/2024 10:52	13303	ORVI_T1	0	3	3	0	0.13	0.13	0.85	0.91	0	0	0	0	0	0
12/30/2024 10:52	41501	FAIR_T2	0	0	0	0	0	0	-1.01	-1.05	1	1	0	600	600	0
12/30/2024 10:52	65502	MOJO_T2	4	5	1	0.1	0.1	0	0	0	0	0	0	0	0	0
12/30/2024 10:53	54601	SUMM_T2	12	12	0	0.62	0.6	-0.02	0	0	0	0	0	0	0	0
12/30/2024 10:53	54602	SUMM_T2	6	10	4	0.17	0.22	0.05	0	0	0	0	0	0	0	0
12/30/2024 10:53	54603	SUMM_T2	2	3	1	0.2	0.1	-0.1	-0.36	-0.21	1	1	0	900	900	0
12/30/2024 10:54	54602	SUMM_T2	6	10	4	0.17	0.22	0.05	0	0	0	0	0	0	0	0
12/30/2024 10:54	54603	SUMM_T2	2	3	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/30/2024 10:54	54601	SUMM_T2	12	12	0	0.62	0.6	-0.02	-1.92	-1.89	2	2	0	2100	2100	0
12/30/2024 11:00	53501	EVIL_T2	1	2	1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
12/30/2024 11:00	63803	HEMP_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/30/2024 11:00	63801	HEMP_T1	1	1	0	0.6	0.6	0	0.94	0.28	0	0	0	0	0	0
12/30/2024 11:00	63804	HEMP_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
12/30/2024 11:00	53502	EVIL_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
12/30/2024 11:02	23403	HONE_T1	0	0	0	0	0	0	-0.76	-0.79	0	0	0	0	0	0
12/30/2024 11:02	40602	PIGR_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
12/30/2024 11:02	55002	NEWP_T1	6	6	0	0.9	0.85	-0.05	-0.2	-0.23	0	0	0	0	0	0
12/30/2024 11:05	13503	MCMI_T2	0	0	0	0	0	0	0.04	-0.01	0	0	0	0	0	0
12/30/2024 11:12	44801	EDAN_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
12/30/2024 11:13	44801	EDAN_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
12/30/2024 11:14	11507	FREE_T2	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
12/30/2024 11:14	44801	EDAN_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
12/30/2024 11:14	55508	HERS_T2	2	2	0	1.2	1.2	0	0	0	1	1	0	1200	1200	0
12/30/2024 11:16	55503	HERS_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
12/30/2024 11:16	13303	ORVI_T1	3	0	-3	0.13	0	-0.13	0.91	0.91	0	0	0	0	0	0
12/30/2024 11:17	61701	ELIZ_T1	1	1	0	5.3	5.3	0	0.15	0.16	0	0	0	0	0	0
12/30/2024 11:17	64801	MONE_T2	17	30	13	0.19	0.22	0.03	0	0	0	0	0	0	0	0
12/30/2024 11:17	64802	MONE_T2	92	325	233	0.21	0.28	0.07	0	0	0	0	0	0	0	0
12/30/2024 11:17	61703	ELIZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/30/2024 11:18	58101	NEKI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/30/2024 11:18	64904	MILL_T1	0	0	0	0	0	0	0.43	0.39	0	0	0	0	0	0
12/30/2024 11:18	58102	NEKI_T1	1	1	0	1	0.7	-0.3	0.13	0.15	0	0	0	0	0	0
12/30/2024 11:19	64802	MONE_T2	92	325	233	0.21	0.28	0.07	0	0	0	0	0	0	0	0
12/30/2024 11:19	64801	MONE_T2	17	30	13	0.19	0.22	0.03	0	0	0	0	0	0	0	0
12/30/2024 11:20	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
12/30/2024 11:22	64101	REFR_T1	0	0	0	0	0	0	-0.28	-0.32	0	0	0	0	0	0
12/30/2024 11:23	64101	REFR_T1	0	0	0	0	0	0	-0.41	-0.47	0	0	0	0	0	0
12/30/2024 11:24	64101	REFR_T1	0	0	0	0	0	0	-0.41	-0.47	0	0	0	0	0	0
12/30/2024 11:25	57505	LAWN_T3	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
12/30/2024 11:27	29402	BELT_T1	63	104	41	0.48	0.56	0.08	0	0	0	0	0	0	0	0
12/30/2024 11:27	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/30/2024 11:28	54502	ENOL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
12/30/2024 11:28	54501	ENOL_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
12/30/2024 11:28	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
12/30/2024 11:29	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
12/30/2024 11:29	54502	ENOL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
12/30/2024 11:29	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
12/30/2024 11:29	54501	ENOL_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
12/30/2024 11:31	53501	EVIL_T2	2	2	0	0.65	0.6	-0.05	-0.47	-0.42	0	0	0	0	0	0
12/30/2024 11:31	53502	EVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/30/2024 11:33	40101	HUNT_T2	42	10	-32	0.32	0.2	-0.12	-0.46	-0.54	0	0	0	0	0	0
12/30/2024 11:34	42002	MNVL_T2	1	1	0	8	7.9	-0.1	-0.24	-0.16	0	0	0	0	0	0
12/30/2024 11:38	13905	SEID_T1	0	0	0	0	0	0	-1	-1.08	1	1	0	1200	1200	0
12/30/2024 11:38	55101	WERT_T1	0	0	0	0	0	0	-2.34	-1.93	4	4	0	3000	3000	0
12/30/2024 11:39	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 11:40	14601	SWHI_T1	0	0	0	0	0	0	-1.8	-1.76	0	0	0	0	0	0
12/30/2024 11:43	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 11:43	60902	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/30/2024 11:43	60901	DONG_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
12/30/2024 11:52	10801	CHHI_T1	1	2	1	0.2	0	-0.2	0	0	1	1	0	900	900	0
12/30/2024 11:52	13101	NHAM_T1	0	0	0	0	0	0	-1.34	-1.69	1	1	0	1200	1200	0
12/30/2024 11:54	64301	LINC_T1	0	0	0	0	0	0	-0.43	-0.19	0	0	0	0	0	0
12/30/2024 11:54	44302	BEAV_T2	0	187	187	0	0.38	0.38	0	0	0	0	0	0	0	0
12/30/2024 11:54	44301	BEAV_T2	3	8	5	1	0.4	-0.6	-0.46	-1.35	2	2	0	1500	1500	0
12/30/2024 11:55	54602	SUMM_T2	5	2	-3	0.1	0.1	0	0	0	0	0	0	0	0	0
12/30/2024 11:55	44302	BEAV_T2	0	187	187	0	0.38	0.38	0	0	0	0	0	0	0	0
12/30/2024 11:55	44301	BEAV_T2	3	8	5	1	0.4	-0.6	-0.46	-1.35	2	2	0	1500	1500	0
12/30/2024 11:55	54601	SUMM_T2	12	12	0	0.48	0.57	0.09	-1.91	-1.91	2	2	0	2100	2100	0
12/30/2024 11:56	44302	BEAV_T2	0	187	187	0	0.38	0.38	0	0	0	0	0	0	0	0
12/30/2024 11:56	44301	BEAV_T2	3	8	5	1	0.4	-0.6	-0.91	-2.7	4	4	0	3000	3000	0
12/30/2024 12:00	55508	HERS_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
12/30/2024 12:02	55002	NEWP_T1	5	6	1	0.64	0.85	0.21	-0.6	-0.66	0	0	0	0	0	0
12/30/2024 12:02	64204	KINZ_T1	58	57	-1	0.39	0.46	0.07	0	0	0	0	0	0	0	0
12/30/2024 12:02	64201	KINZ_T1	7	0	-7	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/30/2024 12:02	64302	LINC_T2	0	0	0	0	0	0	1	1	0	0	0	0	0	0
12/30/2024 12:02	64202	KINZ_T1	3	0	-3	0.33	0	-0.33	0.68	0.67	0	0	0	0	0	0
12/30/2024 12:06	55001	NEWP_T1	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
12/30/2024 12:06	55002	NEWP_T1	5	6	1	0.64	0.85	0.21	0	0	0	0	0	0	0	0
12/30/2024 12:07	55001	NEWP_T1	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
12/30/2024 12:07	55002	NEWP_T1	5	6	1	0.64	0.85	0.21	0	0	0	0	0	0	0	0
12/30/2024 12:18	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 12:20	65202	PRIN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/30/2024 12:20	65205	PRIN_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
12/30/2024 12:20	52501	PROG_T1	0	0	0	0	0	0	0.48	0.45	1	1	0	300	300	0
12/30/2024 12:23	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
12/30/2024 12:24	64101	REFR_T1	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
12/30/2024 12:26	60803	BUCK_T1	24	20	-4	0.67	0.69	0.02	0	0	0	0	0	0	0	0
12/30/2024 12:26	60801	BUCK_T1	79	67	-12	0.48	0.42	-0.06	-0.16	-0.1	0	0	0	0	0	0
12/30/2024 12:27	60803	BUCK_T1	24	20	-4	0.67	0.69	0.02	0	0	0	0	0	0	0	0
12/30/2024 12:27	60801	BUCK_T1	79	67	-12	0.48	0.42	-0.06	-0.16	-0.1	0	0	0	0	0	0
12/30/2024 12:28	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 12:29	60803	BUCK_T1	24	20	-4	0.67	0.69	0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/30/2024 12:29	60801	BUCK_T1	79	67	-12	0.48	0.42	-0.06	-0.16	-0.1	0	0	0	0	0	0
12/30/2024 12:31	60802	BUCK_T2	0	0	0	0	0	0	0.45	0.39	0	0	0	0	0	0
12/30/2024 12:37	60301	TWVA_T2	0	0	0	0	0	0	-2.01	-1.98	2	2	0	1800	1800	0
12/30/2024 12:40	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 12:40	65207	PRIN_T4	5	13	8	1	0.32	-0.68	0	0	0	0	0	0	0	0
12/30/2024 12:40	65206	PRIN_T4	7	11	4	0.1	0.1	0	0	0	0	0	0	0	0	0
12/30/2024 12:44	63602	LETO_T1	7	0	-7	0.1	0	-0.1	-0.41	-0.21	0	0	0	0	0	0
12/30/2024 12:44	63601	LETO_T1	5	5	0	0.8	0.84	0.04	0	0	0	0	0	0	0	0
12/30/2024 12:47	45802	HEGI_T2	8	9	1	1.18	1.06	-0.12	0	0	0	0	0	0	0	0
12/30/2024 12:48	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 12:49	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 12:49	63601	LETO_T1	5	5	0	0.84	0.74	-0.1	0	0	0	0	0	0	0	0
12/30/2024 12:49	63602	LETO_T1	0	0	0	0	0	0	-0.41	-0.21	0	0	0	0	0	0
12/30/2024 12:50	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 12:57	54206	PENN_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
12/30/2024 12:57	44301	BEAV_T2	3	2	-1	1.03	0.9	-0.13	-0.53	-0.56	2	2	0	1500	1500	0
12/30/2024 12:58	60903	DONG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 12:58	60901	DONG_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
12/30/2024 12:58	44301	BEAV_T2	3	2	-1	1.03	0.9	-0.13	0	0	0	0	0	0	0	0
12/30/2024 12:58	60902	DONG_T2	0	1	1	0	0	0	0.74	0.71	0	0	0	0	0	0
12/30/2024 12:59	52004	LING_T2	2	2	0	6.35	6.45	0.1	0.12	0.1	0	0	0	0	0	0
12/30/2024 12:59	52002	LING_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
12/30/2024 12:59	52006	LING_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
12/30/2024 13:01	52002	LING_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
12/30/2024 13:01	52004	LING_T2	2	2	0	6.45	6.45	0	0	0	0	0	0	0	0	0
12/30/2024 13:01	52006	LING_T2	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
12/30/2024 13:04	43304	WATS_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
12/30/2024 13:23	44902	SCOT_T2	0	0	0	0	0	0	-0.97	-0.96	0	0	0	0	0	0
12/30/2024 13:31	52004	LING_T2	2	2	0	6.45	6.45	0	0.13	0.09	0	0	0	0	0	0
12/30/2024 13:31	52002	LING_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
12/30/2024 13:31	52006	LING_T2	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
12/30/2024 13:32	52403	GRPA_T2	1	2	1	1.5	0.35	-1.15	-0.14	-0.13	0	0	0	0	0	0
12/30/2024 13:32	52402	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/30/2024 13:35	54602	SUMM_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/30/2024 13:35	54601	SUMM_T2	8	9	1	0.58	0.57	-0.01	-3.77	-3.75	4	4	0	4200	4200	0
12/30/2024 13:35	61703	ELIZ_T1	0	0	0	0	0	0	-1.91	-1.94	1	1	0	900	900	0
12/30/2024 13:35	61701	ELIZ_T1	1	1	0	4.8	5.1	0.3	0	0	0	0	0	0	0	0
12/30/2024 13:49	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
12/30/2024 13:51	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 13:52	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
12/30/2024 13:54	10101	ALLE_T3	2	2	0	5.8	5.75	-0.05	0	0	0	0	0	0	0	0
12/30/2024 13:56	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 13:56	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 13:57	65206	PRIN_T4	1	37	36	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
12/30/2024 13:57	65207	PRIN_T4	18	83	65	0.47	0.22	-0.25	0	0	1	1	0	1200	1200	0
12/30/2024 13:57	65201	PRIN_T4	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
12/30/2024 13:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 14:04	61001	DONV_T1	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
12/30/2024 14:09	57201	ROSS_T1	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
12/30/2024 14:12	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
12/30/2024 14:18	64802	MONE_T2	165	325	160	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
12/30/2024 14:18	64801	MONE_T2	55	28	-27	0.22	0.23	0.01	0.17	0.14	0	0	0	0	0	0
12/30/2024 14:18	67502	WEWI_T2	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
12/30/2024 14:24	57201	ROSS_T1	0	0	0	0	0	0	-0.52	-0.48	0	0	0	0	0	0
12/30/2024 14:31	53801	MBRG_T2	0	17	17	0	0.16	0.16	-0.96	-0.99	0	0	0	0	0	0
12/30/2024 14:31	53803	MBRG_T2	0	1	1	0	0.1	0.1	0.04	0.04	0	0	0	0	0	0
12/30/2024 14:32	53803	MBRG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/30/2024 14:32	53802	MBRG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 14:32	53801	MBRG_T2	0	17	17	0	0.16	0.16	0	0	0	0	0	0	0	0
12/30/2024 14:33	53801	MBRG_T2	0	17	17	0	0.16	0.16	0	0	0	0	0	0	0	0
12/30/2024 14:33	53802	MBRG_T2	0	0	0	0	0	0	1.17	1.16	0	0	0	0	0	0
12/30/2024 14:33	53803	MBRG_T2	0	1	1	0	0.1	0.1	0.04	0.04	0	0	0	0	0	0
12/30/2024 14:34	53803	MBRG_T2	0	1	1	0	0.1	0.1	0.04	0.04	0	0	0	0	0	0
12/30/2024 14:34	53801	MBRG_T2	0	17	17	0	0.16	0.16	0	0	0	0	0	0	0	0
12/30/2024 14:35	53801	MBRG_T2	0	17	17	0	0.16	0.16	0	0	0	0	0	0	0	0
12/30/2024 14:35	53802	MBRG_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
12/30/2024 14:35	53803	MBRG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:37	55105	WERT_T1	0	0	0	0	0	0	-0.58	-0.63	1	1	0	900	900	0
12/30/2024 14:40	29402	BELT_T1	92	50	-42	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
12/30/2024 14:40	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/30/2024 14:43	60803	BUCK_T1	14	20	6	0.31	0.42	0.11	-0.56	-0.56	1	1	0	600	600	0
12/30/2024 14:43	60801	BUCK_T1	8	24	16	0.13	0.2	0.07	0	0	0	0	0	0	0	0
12/30/2024 14:51	57201	ROSS_T1	0	0	0	0	0	0	-0.45	-0.54	0	0	0	0	0	0
12/30/2024 14:58	55105	WERT_T1	0	0	0	0	0	0	-0.63	-0.65	1	1	0	900	900	0
12/30/2024 14:59	43505	WWIL_T1	1	1	0	3	2.3	-0.7	0	0	0	0	0	0	0	0
12/30/2024 14:59	43506	WWIL_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
12/30/2024 14:59	43504	WWIL_T1	4	3	-1	0.33	0.4	0.07	0.6	0.57	0	0	0	0	0	0
12/30/2024 15:12	60301	TWVA_T2	0	0	0	0	0	0	-2.05	-2.07	2	2	0	1800	1800	0
12/30/2024 15:15	46602	LACR_T1	1	1	0	0.2	0.2	0	-0.67	-0.73	0	0	0	0	0	0
12/30/2024 15:18	52502	PROG_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
12/30/2024 15:19	44505	HAMI_T2	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
12/30/2024 15:19	44502	HAMI_T2	1	1	0	2.5	2.7	0.2	0	0	0	0	0	0	0	0
12/30/2024 15:20	52402	GRPA_T2	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
12/30/2024 15:20	52403	GRPA_T2	0	1	1	0	0.1	0.1	-0.18	-0.12	0	0	0	0	0	0
12/30/2024 15:20	52404	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 15:25	60404	DILL_T2	0	1	1	0	0.5	0.5	0.97	0.87	0	0	0	0	0	0
12/30/2024 15:25	60403	DILL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/30/2024 15:26	60403	DILL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/30/2024 15:26	60404	DILL_T2	0	1	1	0	0.5	0.5	0.97	0.87	0	0	0	0	0	0
12/30/2024 15:28	61305	EARL_T1	0	0	0	0	0	0	0	0.05	1	1	0	600	600	0
12/30/2024 15:30	53501	EVIL_T2	1	2	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
12/30/2024 15:30	53502	EVIL_T2	0	0	0	0	0	0	0.45	0.43	1	1	0	600	600	0
12/30/2024 15:44	61304	EARL_T1	0	0	0	0	0	0	-0.79	-0.81	1	1	0	600	600	0
12/30/2024 15:45	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
12/30/2024 15:45	40101	HUNT_T2	1	4	3	0.4	0	-0.4	-0.88	-0.87	0	0	0	0	0	0
12/30/2024 15:45	54504	ENOL_T2	0	0	0	0	0	0	-1.11	-1.09	1	1	0	600	600	0
12/30/2024 15:45	54502	ENOL_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
12/30/2024 15:50	65003	NEFF_T2	12	18	6	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
12/30/2024 15:50	65004	NEFF_T2	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
12/30/2024 15:51	65004	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 15:51	65003	NEFF_T2	12	18	6	0.2	0.16	-0.04	-1.75	-1.75	2	2	0	1800	1800	0
12/30/2024 15:52	65005	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 15:52	65003	NEFF_T2	12	18	6	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
12/30/2024 16:03	64701	LITI_T1	0	0	0	0	0	0	0.31	0.14	0	0	0	0	0	0
12/30/2024 16:10	64301	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 16:10	64305	LINC_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/30/2024 16:12	61304	EARL_T1	0	0	0	0	0	0	-0.8	-0.81	1	1	0	600	600	0
12/30/2024 16:23	54601	SUMM_T2	9	9	0	0.71	0.6	-0.11	0	0	0	0	0	0	0	0
12/30/2024 16:23	54603	SUMM_T2	2	0	-2	0.1	0	-0.1	-0.44	-0.4	1	1	0	900	900	0
12/30/2024 16:23	54602	SUMM_T2	5	0	-5	0.12	0	-0.12	0	0	0	0	0	0	0	0
12/30/2024 18:27	46004	BERW_T2	4	8	4	0.75	0.35	-0.4	0	0	0	0	0	0	0	0
12/30/2024 18:27	46002	BERW_T2	0	0	0	0	0	0	-1.2	-1.18	1	1	0	900	900	0
12/30/2024 18:31	26704	HEML_T2	0	0	0	0	0	0	-0.85	-0.84	1	1	0	1200	1200	0
12/30/2024 18:32	10805	CHHI_T2	1	1	0	7.6	7.6	0	0	0	1	1	0	600	600	0
12/30/2024 18:39	23404	HONE_T1	70	100	30	0.23	0.25	0.02	0	0	0	0	0	0	0	0
12/30/2024 18:39	23403	HONE_T1	143	260	117	0.22	0.24	0.02	-0.77	-0.78	0	0	0	0	0	0
12/30/2024 18:40	11507	FREE_T2	1	2	1	0.3	0	-0.3	0.17	0.16	0	0	0	0	0	0
12/30/2024 18:42	10105	ALLE_T3	0	8	8	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 18:42	10101	ALLE_T3	2	2	0	5.2	5.75	0.55	0	0	0	0	0	0	0	0
12/30/2024 18:45	43506	WWIL_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
12/30/2024 18:45	43505	WWIL_T1	1	1	0	2.2	2.1	-0.1	0	0	0	0	0	0	0	0
12/30/2024 18:45	46602	LACR_T1	1	2	1	0.2	0.25	0.05	-0.79	-0.83	0	0	0	0	0	0
12/30/2024 18:45	43504	WWIL_T1	1	2	1	0.4	0.25	-0.15	0.61	0.58	0	0	0	0	0	0
12/30/2024 18:46	40602	PIGR_T1	1	1	0	2.4	2.1	-0.3	0	0	0	0	0	0	0	0
12/30/2024 18:46	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 18:46	14801	TREI_T2	0	1	1	0	0	0	0.47	0.52	0	0	0	0	0	0
12/30/2024 18:47	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/30/2024 18:47	55001	NEWP_T1	0	0	0	0	0	0	-0.35	-0.31	0	0	0	0	0	0
12/30/2024 18:47	29402	BELT_T1	84	59	-25	0.52	0.49	-0.03	0	0	0	0	0	0	0	0
12/30/2024 18:47	55002	NEWP_T1	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
12/30/2024 18:47	13503	MCMI_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
12/30/2024 18:48	24202	PROV_T4	0	0	0	0	0	0	-0.89	-0.88	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/30/2024 18:48	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 18:48	61701	ELIZ_T1	1	2	1	5.4	5	-0.4	-0.1	-0.03	0	0	0	0	0	0
12/30/2024 18:48	24206	PROV_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 18:48	52006	LING_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
12/30/2024 18:48	52004	LING_T2	2	2	0	6	6.05	0.05	0.19	0.21	0	0	0	0	0	0
12/30/2024 18:50	13303	ORVI_T1	0	0	0	0	0	0	0.6	0.57	0	0	0	0	0	0
12/30/2024 18:50	22602	KIMB_T1	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
12/30/2024 18:50	40602	PIGR_T1	1	1	0	2.4	2.1	-0.3	0	0	0	0	0	0	0	0
12/30/2024 18:50	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 18:51	64302	LINC_T2	0	0	0	0	0	0	0.49	0.54	0	0	0	0	0	0
12/30/2024 18:52	14801	TREI_T2	0	1	1	0	0	0	0.52	0.49	0	0	0	0	0	0
12/30/2024 18:52	63501	HEID_TBK1-2	1	1	0	0.6	0.3	-0.3	0.39	0.4	0	0	0	0	0	0
12/30/2024 18:54	64305	LINC_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/30/2024 18:54	14601	SWHI_T1	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
12/30/2024 18:54	65003	NEFF_T2	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
12/30/2024 18:54	44901	SCOT_T2	0	0	0	0	0	0	-0.07	-0.19	0	0	0	0	0	0
12/30/2024 18:54	12006	HATF_T1	0	0	0	0	0	0	1.05	1.03	0	0	0	0	0	0
12/30/2024 18:54	67002	STHI_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
12/30/2024 18:54	60803	BUCK_T1	13	18	5	0.28	0.37	0.09	0	0	0	0	0	0	0	0
12/30/2024 18:54	14602	SWHI_T1	1	1	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
12/30/2024 18:54	60801	BUCK_T1	32	40	8	0.2	0.28	0.08	-0.2	-0.21	0	0	0	0	0	0
12/30/2024 18:54	65004	NEFF_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
12/30/2024 18:54	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/30/2024 18:54	64301	LINC_T1	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
12/30/2024 18:55	54602	SUMM_T2	8	2	-6	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
12/30/2024 18:55	63501	HEID_TBK1-2	1	1	0	0.6	0.3	-0.3	0.39	0.4	0	0	0	0	0	0
12/30/2024 18:55	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/30/2024 18:55	54601	SUMM_T2	12	10	-2	0.57	0.57	0	-3.72	-3.74	4	4	0	4200	4200	0
12/30/2024 18:55	54501	ENOL_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
12/30/2024 18:55	65207	PRIN_T4	15	23	8	0.63	0.49	-0.14	0	0	1	1	0	1200	1200	0
12/30/2024 18:55	44801	EDAN_T2	0	1	1	0	0.3	0.3	-0.47	-0.48	0	0	0	0	0	0
12/30/2024 18:55	67002	STHI_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
12/30/2024 18:55	54603	SUMM_T2	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
12/30/2024 18:55	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
12/30/2024 18:55	53802	MBRG_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
12/30/2024 18:55	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 18:55	65206	PRIN_T4	2	16	14	0.1	0.1	0	0	0	0	0	0	0	0	0
12/30/2024 18:56	63601	LETO_T1	5	4	-1	0.18	0.2	0.02	0	0	0	0	0	0	0	0
12/30/2024 18:56	14602	SWHI_T1	1	1	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
12/30/2024 18:56	40101	HUNT_T2	32	13	-19	0.48	0.3	-0.18	-0.85	-0.86	0	0	0	0	0	0
12/30/2024 18:56	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/30/2024 18:56	52004	LING_T2	2	2	0	6	6.05	0.05	0.21	0.17	0	0	0	0	0	0
12/30/2024 18:56	63602	LETO_T1	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
12/30/2024 18:56	52502	PROG_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
12/30/2024 18:56	54601	SUMM_T2	12	10	-2	0.57	0.57	0	0	0	0	0	0	0	0	0
12/30/2024 18:56	65503	MOJO_T2	0	0	0	0	0	0	-0.38	-0.36	0	0	0	0	0	0
12/30/2024 18:56	60801	BUCK_T1	32	40	8	0.2	0.28	0.08	-0.2	-0.21	0	0	0	0	0	0
12/30/2024 18:56	52006	LING_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
12/30/2024 18:56	20601	GRWO_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/30/2024 18:56	54602	SUMM_T2	8	2	-6	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
12/30/2024 18:56	60803	BUCK_T1	13	18	5	0.28	0.37	0.09	0	0	0	0	0	0	0	0
12/30/2024 18:56	67002	STHI_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
12/30/2024 18:56	54603	SUMM_T2	2	2	0	0.25	0.5	0.25	-0.42	-0.47	1	1	0	900	900	0
12/30/2024 18:56	64801	MONE_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
12/30/2024 18:56	64802	MONE_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
12/30/2024 18:56	10801	CHHI_T1	0	0	0	0	0	0	0	0	6	6	0	4200	4200	0
12/30/2024 18:56	14601	SWHI_T1	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
12/30/2024 18:56	20603	GRWO_T2	0	0	0	0	0	0	0.4	0.36	0	0	0	0	0	0
12/30/2024 18:57	52004	LING_T2	2	2	0	6	6.05	0.05	0.21	0.17	0	0	0	0	0	0
12/30/2024 18:57	40602	PIGR_T1	1	1	0	2.4	2.1	-0.3	0	0	0	0	0	0	0	0
12/30/2024 18:57	65206	PRIN_T4	2	16	14	0.1	0.1	0	0	0	0	0	0	0	0	0
12/30/2024 18:57	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
12/30/2024 18:57	64701	LITI_T1	0	0	0	0	0	0	0.2	0.13	0	0	0	0	0	0
12/30/2024 18:57	64305	LINC_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/30/2024 18:57	43302	WATS_T2	4	2	-2	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
12/30/2024 18:57	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
12/30/2024 18:57	64301	LINC_T1	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
12/30/2024 18:57	29402	BELT_T1	84	59	-25	0.52	0.49	-0.03	0	0	0	0	0	0	0	0
12/30/2024 18:57	53803	MBRG_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
12/30/2024 18:57	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 18:57	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 18:57	64201	KINZ_T1	0	0	0	0	0	0	0.53	0.55	2	2	0	600	600	0
12/30/2024 18:57	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 18:57	57203	ROSS_T1	0	0	0	0	0	0	0.34	0.39	0	0	0	0	0	0
12/30/2024 18:57	55002	NEWP_T1	2	2	0	0.3	0.25	-0.05	-0.24	-0.24	0	0	0	0	0	0
12/30/2024 18:57	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
12/30/2024 18:57	52006	LING_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
12/30/2024 18:57	54506	ENOL_T2	0	0	0	0	0	0	0.57	0.69	1	1	0	600	600	0
12/30/2024 18:57	65207	PRIN_T4	15	23	8	0.63	0.49	-0.14	0	0	0	0	0	0	0	0
12/30/2024 18:58	40602	PIGR_T1	1	1	0	2.4	2.1	-0.3	0	0	0	0	0	0	0	0
12/30/2024 18:58	13101	NHAM_T1	0	0	0	0	0	0	-1.09	-1.06	1	1	0	1200	1200	0
12/30/2024 18:58	54601	SUMM_T2	12	10	-2	0.57	0.57	0	-1.86	-1.87	2	2	0	2100	2100	0
12/30/2024 18:58	44302	BEAV_T2	306	361	55	0.48	0.55	0.07	0	0	0	0	0	0	0	0
12/30/2024 18:58	55102	WERT_T2	0	0	0	0	0	0	-0.78	-0.71	0	0	0	0	0	0
12/30/2024 18:58	44301	BEAV_T2	10	15	5	0.71	0.63	-0.08	-0.98	-1.07	1	1	0	600	600	0
12/30/2024 18:58	54603	SUMM_T2	2	2	0	0.25	0.5	0.25	0	0	0	0	0	0	0	0
12/30/2024 18:58	63501	HEID_TBK1-2	1	1	0	0.6	0.3	-0.3	0.39	0.4	0	0	0	0	0	0
12/30/2024 18:58	52006	LING_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
12/30/2024 18:58	52004	LING_T2	2	2	0	6	6.05	0.05	0	0	0	0	0	0	0	0
12/30/2024 18:58	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
12/30/2024 18:58	54602	SUMM_T2	8	2	-6	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
12/30/2024 18:58	40601	PIGR_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
12/30/2024 18:59	64204	KINZ_T1	1	1	0	0.4	1.1	0.7	0	0	0	0	0	0	0	0
12/30/2024 18:59	57205	ROSS_T1	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
12/30/2024 18:59	55101	WERT_T1	0	0	0	0	0	0	-1.41	-1.4	2	2	0	1500	1500	0
12/30/2024 18:59	54206	PENN_T2	0	4	4	0	0.13	0.13	-0.05	-0.07	0	0	0	0	0	0
12/30/2024 18:59	44902	SCOT_T2	0	0	0	0	0	0	-0.93	-0.96	0	0	0	0	0	0
12/30/2024 18:59	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
12/30/2024 18:59	64201	KINZ_T1	0	0	0	0	0	0	0.53	0.55	2	2	0	600	600	0
12/30/2024 18:59	65503	MOJO_T2	0	0	0	0	0	0	-0.38	-0.36	0	0	0	0	0	0
12/30/2024 18:59	60802	BUCK_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
12/30/2024 18:59	40602	PIGR_T1	1	1	0	2.4	2.1	-0.3	0	0	0	0	0	0	0	0
12/30/2024 18:59	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 18:59	20601	GRWO_T2	1	1	0	0.4	0	-0.4	-0.23	-0.24	0	0	0	0	0	0
12/30/2024 18:59	61001	DONV_T1	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
12/30/2024 18:59	60803	BUCK_T1	13	18	5	0.28	0.37	0.09	0	0	0	0	0	0	0	0
12/30/2024 18:59	40601	PIGR_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
12/30/2024 18:59	55103	WERT_T1	1	1	0	7.2	5.8	-1.4	0	0	0	0	0	0	0	0
12/30/2024 18:59	64702	LITI_T2	0	0	0	0	0	0	-0.8	-0.84	0	0	0	0	0	0
12/30/2024 18:59	64101	REFR_T1	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
12/30/2024 18:59	53801	MBRG_T2	0	0	0	0	0	0	-1.13	-1.1	0	0	0	0	0	0
12/30/2024 18:59	54204	PENN_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
12/30/2024 18:59	42802	SELI_T1	0	0	0	0	0	0	-1.56	-1.53	0	0	0	0	0	0
12/30/2024 18:59	60801	BUCK_T1	32	40	8	0.2	0.28	0.08	-0.2	-0.21	0	0	0	0	0	0
12/30/2024 18:59	67002	STHI_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
12/30/2024 19:00	53501	EVIL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
12/30/2024 19:00	40602	PIGR_T1	1	1	0	2.3	2.1	-0.2	0	0	0	0	0	0	0	0
12/30/2024 19:00	14602	SWHI_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/30/2024 19:00	54603	SUMM_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/30/2024 19:00	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:00	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
12/30/2024 19:00	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
12/30/2024 19:00	10801	CHHI_T1	0	0	0	0	0	0	0	0	3	3	0	2100	2100	0
12/30/2024 19:00	44302	BEAV_T2	361	0	-361	0.55	0	-0.55	0	0	0	0	0	0	0	0
12/30/2024 19:00	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:00	65004	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:00	54602	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/30/2024 19:00	44301	BEAV_T2	14	3	-11	0.63	1.9	1.27	-0.98	-1.07	1	1	0	600	600	0
12/30/2024 19:00	65503	MOJO_T2	0	0	0	0	0	0	-0.38	-0.36	0	0	0	0	0	0
12/30/2024 19:00	40101	HUNT_T2	11	24	13	0.59	0.26	-0.33	-0.85	-0.86	0	0	0	0	0	0
12/30/2024 19:00	67502	WEWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:00	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:00	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:00	45802	HEGI_T2	46	46	0	0.85	1.27	0.42	0.58	0.54	0	0	0	0	0	0
12/30/2024 19:00	54601	SUMM_T2	7	10	3	0.61	0.63	0.02	-1.86	-1.87	2	2	0	2100	2100	0
12/30/2024 19:00	10805	CHHI_T2	1	1	0	7.7	7.7	0	0	0	1	1	0	600	600	0
12/30/2024 19:00	14601	SWHI_T1	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
12/30/2024 19:00	65003	NEFF_T2	3	4	1	0.13	0.18	0.05	0	0	0	0	0	0	0	0
12/30/2024 19:00	58102	NEKI_T1	1	1	0	1.4	1.5	0.1	0.23	0.19	0	0	0	0	0	0
12/30/2024 19:00	44905	SCOT_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:00	65502	MOJO_T2	0	0	0	0	0	0	-1.09	-1.15	0	0	0	0	0	0
12/30/2024 19:01	44502	HAMI_T2	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
12/30/2024 19:01	44801	EDAN_T2	1	1	0	0.3	0	-0.3	-0.47	-0.48	0	0	0	0	0	0
12/30/2024 19:01	53802	MBRG_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
12/30/2024 19:01	42002	MNVL_T2	0	0	0	0	0	0	-0.8	-0.77	0	0	0	0	0	0
12/30/2024 19:01	60801	BUCK_T1	37	44	7	0.24	0.33	0.09	0	0	0	0	0	0	0	0
12/30/2024 19:01	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:01	55508	HERS_T2	2	2	0	1	1	0	0	0	1	1	0	1200	1200	0
12/30/2024 19:01	44501	HAMI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
12/30/2024 19:01	52402	GRPA_T2	0	3	3	0	0.43	0.43	-0.75	-0.82	0	0	0	0	0	0
12/30/2024 19:01	53803	MBRG_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
12/30/2024 19:01	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:01	65005	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:01	44301	BEAV_T2	14	3	-11	0.63	1.9	1.27	-0.98	-1.07	1	1	0	600	600	0
12/30/2024 19:01	60404	DILL_T2	0	1	1	0	0	0	1.32	1.57	0	0	0	0	0	0
12/30/2024 19:01	54501	ENOL_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
12/30/2024 19:01	60803	BUCK_T1	13	18	5	0.32	0.47	0.15	0	0	0	0	0	0	0	0
12/30/2024 19:01	44302	BEAV_T2	361	0	-361	0.55	0	-0.55	0	0	0	0	0	0	0	0
12/30/2024 19:01	60403	DILL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/30/2024 19:01	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
12/30/2024 19:01	44505	HAMI_T2	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
12/30/2024 19:01	59101	WALK_T2	0	0	0	0	0	0	1.44	1.1	0	0	0	0	0	0
12/30/2024 19:01	65003	NEFF_T2	3	4	1	0.13	0.18	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/30/2024 19:01	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/30/2024 19:01	43302	WATS_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
12/30/2024 19:01	64802	MONE_T2	2	1	-1	0.1	0.1	0	0.23	0.22	0	0	0	0	0	0
12/30/2024 19:02	57201	ROSS_T1	0	0	0	0	0	0	-0.59	-0.54	0	0	0	0	0	0
12/30/2024 19:02	63501	HEID_TBK1-2	1	0	-1	0.3	0	-0.3	0.39	0.4	0	0	0	0	0	0
12/30/2024 19:02	43302	WATS_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
12/30/2024 19:02	58401	MORO_T1	0	0	0	0	0	0	-1.01	-1.08	1	1	0	600	600	0
12/30/2024 19:02	55105	WERT_T1	0	0	0	0	0	0	-0.57	-0.54	1	1	0	900	900	0
12/30/2024 19:02	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:02	55002	NEWP_T1	0	2	2	0	0.25	0.25	-0.48	-0.48	0	0	0	0	0	0
12/30/2024 19:02	65202	PRIN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/30/2024 19:02	41501	FAIR_T2	0	0	0	0	0	0	-1.11	-1.13	1	1	0	600	600	0
12/30/2024 19:02	60803	BUCK_T1	13	18	5	0.32	0.47	0.15	-0.53	-0.55	1	1	0	600	600	0
12/30/2024 19:02	65205	PRIN_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
12/30/2024 19:02	13303	ORVI_T1	0	0	0	0	0	0	0.57	0.64	0	0	0	0	0	0
12/30/2024 19:02	60801	BUCK_T1	37	44	7	0.24	0.33	0.09	0	0	0	0	0	0	0	0
12/30/2024 19:02	60301	TWVA_T2	0	0	0	0	0	0	-3.41	-3.41	2	2	0	1800	1800	0
12/30/2024 19:02	44801	EDAN_T2	1	1	0	0.3	0	-0.3	-0.47	-0.48	0	0	0	0	0	0
12/30/2024 19:02	52001	LING_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
12/30/2024 19:02	55103	WERT_T1	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
12/30/2024 19:03	54602	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/30/2024 19:03	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:03	58401	MORO_T1	0	0	0	0	0	0	-1.01	-1.08	1	1	0	600	600	0
12/30/2024 19:03	44502	HAMI_T2	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
12/30/2024 19:03	57201	ROSS_T1	0	0	0	0	0	0	-1.18	-1.08	0	0	0	0	0	0
12/30/2024 19:03	54601	SUMM_T2	7	10	3	0.61	0.63	0.02	-1.86	-1.87	2	2	0	2100	2100	0
12/30/2024 19:03	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:03	55503	HERS_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
12/30/2024 19:03	64802	MONE_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
12/30/2024 19:03	52004	LING_T2	2	2	0	5.95	6.05	0.1	0.21	0.17	0	0	0	0	0	0
12/30/2024 19:03	44505	HAMI_T2	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
12/30/2024 19:03	45802	HEGI_T2	46	46	0	0.85	1.27	0.42	0.58	0.54	0	0	0	0	0	0
12/30/2024 19:03	44501	HAMI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
12/30/2024 19:03	67002	STHI_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
12/30/2024 19:03	43302	WATS_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
12/30/2024 19:03	40602	PIGR_T1	1	1	0	2.3	2.1	-0.2	-1.35	-1.35	2	2	0	1200	1200	0
12/30/2024 19:03	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
12/30/2024 19:03	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0.07	0.07	0	0	0	0	0	0
12/30/2024 19:03	54603	SUMM_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/30/2024 19:03	52006	LING_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/30/2024 19:03	53802	MBRG_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
12/30/2024 19:04	54603	SUMM_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/30/2024 19:04	44301	BEAV_T2	14	3	-11	0.63	1.9	1.27	-1.96	-2.14	2	2	0	1200	1200	0
12/30/2024 19:04	55508	HERS_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
12/30/2024 19:04	40101	HUNT_T2	11	24	13	0.59	0.26	-0.33	-0.85	-0.86	0	0	0	0	0	0
12/30/2024 19:04	40601	PIGR_T1	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
12/30/2024 19:04	65503	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:04	54601	SUMM_T2	7	10	3	0.61	0.63	0.02	-1.86	-1.87	2	2	0	2100	2100	0
12/30/2024 19:04	44302	BEAV_T2	361	0	-361	0.55	0	-0.55	0	0	0	0	0	0	0	0
12/30/2024 19:04	63501	HEID_TBK1-2	1	0	-1	0.3	0	-0.3	0.39	0.4	0	0	0	0	0	0
12/30/2024 19:04	40602	PIGR_T1	1	1	0	2.3	2.1	-0.2	0	0	0	0	0	0	0	0
12/30/2024 19:04	54602	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/30/2024 19:04	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:05	60801	BUCK_T1	37	44	7	0.24	0.33	0.09	-0.2	-0.21	0	0	0	0	0	0
12/30/2024 19:05	60902	DONG_T2	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
12/30/2024 19:05	44302	BEAV_T2	361	0	-361	0.55	0	-0.55	0	0	0	0	0	0	0	0
12/30/2024 19:05	58401	MORO_T1	0	0	0	0	0	0	-1.01	-1.08	1	1	0	600	600	0
12/30/2024 19:05	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:05	57505	LAWN_T3	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
12/30/2024 19:05	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:05	53802	MBRG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:05	53501	EVIL_T2	1	1	0	0.3	0.2	-0.1	-0.69	-0.71	0	0	0	0	0	0
12/30/2024 19:05	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:05	65003	NEFF_T2	3	4	1	0.13	0.18	0.05	-1.8	-1.78	2	2	0	1800	1800	0
12/30/2024 19:05	55101	WERT_T1	0	0	0	0	0	0	-1.41	-1.4	2	2	0	1500	1500	0
12/30/2024 19:05	60803	BUCK_T1	13	18	5	0.32	0.47	0.15	-0.53	-0.55	1	1	0	600	600	0
12/30/2024 19:05	64101	REFR_T1	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
12/30/2024 19:05	55103	WERT_T1	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
12/30/2024 19:05	64702	LITI_T2	0	0	0	0	0	0	-0.8	-0.84	0	0	0	0	0	0
12/30/2024 19:05	44301	BEAV_T2	14	3	-11	0.63	1.9	1.27	0	0	0	0	0	0	0	0
12/30/2024 19:06	61304	EARL_T1	0	0	0	0	0	0	-0.91	-0.92	1	1	0	600	600	0
12/30/2024 19:06	61703	ELIZ_T1	0	0	0	0	0	0	-1.86	-1.6	1	1	0	900	900	0
12/30/2024 19:06	64204	KINZ_T1	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
12/30/2024 19:06	64202	KINZ_T1	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
12/30/2024 19:06	60803	BUCK_T1	13	18	5	0.32	0.47	0.15	-0.53	-0.55	1	1	0	600	600	0
12/30/2024 19:06	60801	BUCK_T1	37	44	7	0.24	0.33	0.09	0	0	0	0	0	0	0	0
12/30/2024 19:06	61701	ELIZ_T1	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
12/30/2024 19:06	63801	HEMP_T1	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
12/30/2024 19:06	54603	SUMM_T2	2	2	0	0.3	0.5	0.2	-0.47	-0.44	1	1	0	900	900	0
12/30/2024 19:06	54602	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/30/2024 19:06	54601	SUMM_T2	7	10	3	0.61	0.63	0.02	0	0	0	0	0	0	0	0
12/30/2024 19:06	63804	HEMP_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
12/30/2024 19:06	64101	REFR_T1	0	0	0	0	0	0	-0.39	-0.36	0	0	0	0	0	0
12/30/2024 19:06	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:07	63501	HEID_TBK1-2	1	0	-1	0.3	0	-0.3	0.4	0.4	0	0	0	0	0	0
12/30/2024 19:07	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
12/30/2024 19:07	64802	MONE_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
12/30/2024 19:07	55001	NEWP_T1	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
12/30/2024 19:07	55002	NEWP_T1	0	2	2	0	0.25	0.25	-0.24	-0.23	0	0	0	0	0	0
12/30/2024 19:08	52402	GRPA_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
12/30/2024 19:08	52403	GRPA_T2	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
12/30/2024 19:08	53802	MBRG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:08	58401	MORO_T1	0	0	0	0	0	0	-2.17	-2.21	2	2	0	1200	1200	0
12/30/2024 19:08	64204	KINZ_T1	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
12/30/2024 19:08	64203	KINZ_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
12/30/2024 19:09	52004	LING_T2	2	2	0	5.95	6.05	0.1	0.17	0.19	0	0	0	0	0	0
12/30/2024 19:09	64301	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:09	52006	LING_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/30/2024 19:09	61304	EARL_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	600	600	0
12/30/2024 19:09	64305	LINC_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
12/30/2024 19:09	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:09	65502	MOJO_T2	0	0	0	0	0	0	-1.15	-1.1	0	0	0	0	0	0
12/30/2024 19:10	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
12/30/2024 19:10	54504	ENOL_T2	0	0	0	0	0	0	-1.08	-1.08	1	1	0	600	600	0
12/30/2024 19:10	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
12/30/2024 19:10	52501	PROG_T1	0	0	0	0	0	0	0.39	0.41	1	1	0	300	300	0
12/30/2024 19:10	60801	BUCK_T1	37	44	7	0.24	0.33	0.09	-0.21	-0.22	0	0	0	0	0	0
12/30/2024 19:10	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/30/2024 19:10	60803	BUCK_T1	13	18	5	0.32	0.47	0.15	0	0	0	0	0	0	0	0
12/30/2024 19:11	55105	WERT_T1	0	0	0	0	0	0	-0.54	-0.57	1	1	0	900	900	0
12/30/2024 19:11	55103	WERT_T1	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
12/30/2024 19:14	54204	PENN_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
12/30/2024 19:14	54206	PENN_T2	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
12/30/2024 19:14	54202	PENN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/30/2024 19:18	13303	ORVI_T1	0	0	0	0	0	0	0.64	0.66	0	0	0	0	0	0
12/30/2024 19:29	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:41	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/30/2024 19:41	64204	KINZ_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
12/30/2024 19:41	64201	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/30/2024 19:41	64202	KINZ_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
12/30/2024 20:27	64904	MILL_T1	0	0	0	0	0	0	0.55	0.49	0	0	0	0	0	0
12/30/2024 20:39	40101	HUNT_T2	43	61	18	0.36	0.31	-0.05	-0.87	-0.86	0	0	0	0	0	0
12/30/2024 20:54	13905	SEID_T1	0	0	0	0	0	0	-1.07	-1.06	1	1	0	1200	1200	0
12/30/2024 23:42	52502	PROG_T2	0	0	0	0	0	0	-0.58	0.36	1	0	-1	900	0	-900
12/31/2024 0:28	14705	TREX_T1	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
12/31/2024 0:28	14704	TREX_T1	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
12/31/2024 3:40	13503	MCMI_T2	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
12/31/2024 7:49	26704	HEMI_T2	0	0	0	0	0	0	-0.83	-0.84	1	1	0	1200	1200	0
12/31/2024 7:54	13704	SCHN_T2	0	0	0	0	0	0	-0.21	-0.3	0	0	0	0	0	0
12/31/2024 8:18	64204	KINZ_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
12/31/2024 8:18	64201	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/31/2024 8:18	64202	KINZ_T1	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
12/31/2024 8:26	16102	BING_T2	1	1	0	4.2	4.4	0.2	0	0	0	0	0	0	0	0
12/31/2024 8:26	16101	BING_T2	0	0	0	0	0	0	0.47	0.5	0	0	0	0	0	0
12/31/2024 8:27	62104	ELAN_T1	0	0	0	0	0	0	0.75	0.7	2	2	0	1500	1500	0
12/31/2024 8:29	61503	EPET_T1	0	0	0	0	0	0	-1.08	-1.05	0	0	0	0	0	0
12/31/2024 8:30	62104	ELAN_T1	0	0	0	0	0	0	0.75	0.7	2	2	0	1500	1500	0
12/31/2024 8:30	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 8:30	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 8:31	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 8:31	62104	ELAN_T1	0	0	0	0	0	0	0.75	0.7	2	2	0	1500	1500	0
12/31/2024 8:31	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 8:33	64202	KINZ_T1	2	3	1	0.2	0.67	0.47	0	0	0	0	0	0	0	0
12/31/2024 8:33	64204	KINZ_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
12/31/2024 8:33	64201	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/31/2024 8:33	64203	KINZ_T1	0	0	0	0	0	0	0.22	0.27	1	1	0	600	600	0
12/31/2024 8:37	65803	RTWN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
12/31/2024 8:37	65802	RTWN_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
12/31/2024 8:42	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 8:42	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 8:42	62105	ELAN_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
12/31/2024 8:44	62106	ELAN_T1	0	0	0	0	0	0	1.01	1.01	0	0	0	0	0	0
12/31/2024 8:44	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 8:44	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 8:46	61001	DONV_T1	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
12/31/2024 8:59	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 8:59	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 8:59	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/31/2024 8:59	47203	FAXO_T2	1	1	0	0.2	0.1	-0.1	-1.69	-1.71	1	1	0	1200	1200	0
12/31/2024 9:00	46602	LACR_T1	1	1	0	0.1	0.1	0	-0.81	-0.81	0	0	0	0	0	0
12/31/2024 9:00	62106	ELAN_T1	0	0	0	0	0	0	1.01	1.03	0	0	0	0	0	0
12/31/2024 9:00	62101	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/31/2024 9:00	67502	WEWI_T2	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/31/2024 9:00	23403	HONE_T1	0	0	0	0	0	0	-0.78	-0.71	0	0	0	0	0	0
12/31/2024 9:00	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/31/2024 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
12/31/2024 9:00	42701	AUGU_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
12/31/2024 9:00	40505	CRES_T1	0	0	0	0	0	0	0.35	0.38	0	0	0	0	0	0
12/31/2024 9:01	40101	HUNT_T2	171	245	74	0.45	0.49	0.04	-1.07	-1.08	0	0	0	0	0	0
12/31/2024 9:13	40802	EXCH_T2	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
12/31/2024 9:13	52402	GRPA_T2	6	4	-2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/31/2024 9:13	52403	GRPA_T2	0	1	1	0	0.1	0.1	-0.12	-0.11	0	0	0	0	0	0
12/31/2024 9:14	62101	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/31/2024 9:14	10805	CHHI_T2	7	1	-6	1.84	7.6	5.76	-1.14	-1.15	1	1	0	600	600	0
12/31/2024 9:14	47203	FAXO_T2	1	1	0	0.2	0	-0.2	-1.71	-1.71	1	1	0	1200	1200	0
12/31/2024 9:14	62104	ELAN_T1	0	0	0	0	0	0	0.72	0.8	2	2	0	1500	1500	0
12/31/2024 9:14	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
12/31/2024 9:14	62105	ELAN_T1	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
12/31/2024 9:15	52404	GRPA_T2	0	0	0	0	0	0	0.66	1.14	0	0	0	0	0	0
12/31/2024 9:15	62102	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/31/2024 9:15	52402	GRPA_T2	4	1	-3	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
12/31/2024 9:15	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/31/2024 9:15	53501	EVIL_T2	2	2	0	0.85	0.75	-0.1	-0.47	-0.51	0	0	0	0	0	0
12/31/2024 9:15	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/31/2024 9:15	62106	ELAN_T1	0	0	0	0	0	0	1.03	1.02	0	0	0	0	0	0
12/31/2024 9:15	52403	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
12/31/2024 9:16	22601	KIMB_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/31/2024 9:16	40802	EXCH_T2	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
12/31/2024 9:16	22602	KIMB_T1	0	0	0	0	0	0	0.19	0.23	0	0	0	0	0	0
12/31/2024 9:20	46206	DANV_T2	0	0	0	0	0	0	2.36	2.44	1	1	0	1200	1200	0
12/31/2024 9:21	46206	DANV_T2	0	0	0	0	0	0	2.36	2.44	1	1	0	1200	1200	0
12/31/2024 9:23	57201	ROSS_T1	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
12/31/2024 9:24	57201	ROSS_T1	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
12/31/2024 9:24	46206	DANV_T2	0	0	0	0	0	0	2.44	2.46	1	1	0	1200	1200	0
12/31/2024 9:27	29402	BELT_T1	41	17	-24	0.43	0.59	0.16	0	0	0	0	0	0	0	0
12/31/2024 9:27	29401	BELT_T1	20	11	-9	0.15	0.12	-0.03	0	0	1	1	0	900	900	0
12/31/2024 9:28	29401	BELT_T1	20	11	-9	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
12/31/2024 9:28	29402	BELT_T1	41	17	-24	0.43	0.59	0.16	0	0	0	0	0	0	0	0
12/31/2024 9:29	26704	HEML_T2	0	0	0	0	0	0	-0.81	-0.83	1	1	0	1200	1200	0
12/31/2024 9:31	64201	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/31/2024 9:31	64203	KINZ_T1	0	0	0	0	0	0	0.21	0.33	1	1	0	600	600	0
12/31/2024 9:31	64202	KINZ_T1	2	3	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
12/31/2024 9:31	64204	KINZ_T1	2	26	24	0.75	0.49	-0.26	0	0	0	0	0	0	0	0
12/31/2024 9:32	64204	KINZ_T1	2	26	24	0.75	0.49	-0.26	0	0	0	0	0	0	0	0
12/31/2024 9:32	64201	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/31/2024 9:32	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 9:32	64202	KINZ_T1	2	3	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
12/31/2024 9:33	55002	NEWP_T1	4	6	2	0.48	1.13	0.65	-0.17	-0.18	0	0	0	0	0	0
12/31/2024 9:35	57203	ROSS_T1	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
12/31/2024 9:35	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/31/2024 9:35	62102	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/31/2024 9:35	62104	ELAN_T1	0	0	0	0	0	0	0.8	0.8	2	2	0	1500	1500	0
12/31/2024 9:35	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/31/2024 9:36	44901	SCOT_T2	0	0	0	0	0	0	-0.31	-0.46	0	0	0	0	0	0
12/31/2024 9:37	24202	PROV_T4	6	11	5	0.13	0.17	0.04	-0.86	-0.83	1	1	0	1200	1200	0
12/31/2024 9:38	14705	TREX_T1	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
12/31/2024 9:38	14704	TREX_T1	1	1	0	7.1	6.6	-0.5	0	0	0	0	0	0	0	0
12/31/2024 9:43	42701	AUGU_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
12/31/2024 9:44	63501	HEID_TBK1-2	46	39	-7	0.42	0.44	0.02	-0.3	-0.31	1	1	0	900	900	0
12/31/2024 9:44	54502	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
12/31/2024 9:44	54506	ENOL_T2	0	0	0	0	0	0	0.28	0.36	0	1	1	0	600	600
12/31/2024 9:44	11507	FREE_T2	0	0	0	0	0	0	0.32	0.19	0	0	0	0	0	0
12/31/2024 9:44	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
12/31/2024 9:46	64204	KINZ_T1	26	17	-9	0.49	0.28	-0.21	0	0	0	0	0	0	0	0
12/31/2024 9:46	40703	FFLD_T1	3	3	0	0.27	0.3	0.03	0	0	0	0	0	0	0	0
12/31/2024 9:46	64202	KINZ_T1	3	2	-1	0.33	0.4	0.07	0	0	0	0	0	0	0	0
12/31/2024 9:46	61304	EARL_T1	1	1	0	0.1	0.2	0.1	-0.76	-0.73	1	1	0	600	600	0
12/31/2024 9:46	64201	KINZ_T1	1	1	0	0.4	0.2	-0.2	-0.66	-0.07	6	6	0	3000	3000	0
12/31/2024 9:46	63501	HEID_TBK1-2	35	40	5	0.39	0.46	0.07	-0.6	-0.61	2	2	0	1800	1800	0
12/31/2024 9:46	52403	GRPA_T2	1	8	7	0.2	0.6	0.4	0	0	0	0	0	0	0	0
12/31/2024 9:46	40702	FFLD_T1	3	3	0	0.3	0.33	0.03	-0.53	-0.52	1	1	0	1200	1200	0
12/31/2024 9:46	52401	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
12/31/2024 9:46	40701	FFLD_T1	30	29	-1	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
12/31/2024 9:46	52402	GRPA_T2	1	5	4	0.2	0.36	0.16	-0.68	-0.68	0	0	0	0	0	0
12/31/2024 9:47	52401	GRPA_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
12/31/2024 9:47	64903	MILL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/31/2024 9:47	63501	HEID_TBK1-2	35	40	5	0.39	0.46	0.07	-0.3	-0.31	1	1	0	900	900	0
12/31/2024 9:47	64902	MILL_T2	0	0	0	0	0	0	-0.66	0.27	1	0	-1	900	0	-900
12/31/2024 9:47	64202	KINZ_T1	3	2	-1	0.33	0.4	0.07	0	0	0	0	0	0	0	0
12/31/2024 9:47	64204	KINZ_T1	26	17	-9	0.49	0.28	-0.21	0	0	0	0	0	0	0	0
12/31/2024 9:47	64201	KINZ_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
12/31/2024 9:47	52403	GRPA_T2	1	8	7	0.2	0.6	0.4	0	0	0	0	0	0	0	0
12/31/2024 9:47	52402	GRPA_T2	1	5	4	0.2	0.36	0.16	-0.68	-0.68	0	0	0	0	0	0
12/31/2024 9:48	61304	EARL_T1	1	1	0	0.1	0.2	0.1	-0.76	-0.73	1	1	0	600	600	0
12/31/2024 9:49	64204	KINZ_T1	26	17	-9	0.49	0.28	-0.21	0	0	0	0	0	0	0	0
12/31/2024 9:49	64202	KINZ_T1	3	2	-1	0.33	0.4	0.07	0	0	0	0	0	0	0	0
12/31/2024 9:49	64201	KINZ_T1	1	1	0	0.4	0.2	-0.2	-0.33	-0.03	3	3	0	1500	1500	0
12/31/2024 9:49	63501	HEID_TBK1-2	35	40	5	0.39	0.46	0.07	-0.6	-0.61	2	2	0	1800	1800	0
12/31/2024 9:53	43801	SWIL_T1	2	2	0	2.35	2.65	0.3	0	0	0	0	0	0	0	0
12/31/2024 9:53	43802	SWIL_T1	0	0	0	0	0	0	-0.14	-0.13	1	1	0	600	600	0
12/31/2024 9:54	54603	SUMM_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/31/2024 9:54	54601	SUMM_T2	12	7	-5	0.75	0.44	-0.31	-1.89	-1.84	2	2	0	2100	2100	0
12/31/2024 9:55	54603	SUMM_T2	2	0	-2	0.2	0	-0.2	-0.35	-0.31	1	1	0	900	900	0
12/31/2024 9:55	54601	SUMM_T2	12	7	-5	0.75	0.44	-0.31	0	0	0	0	0	0	0	0
12/31/2024 9:57	53501	EVIL_T2	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
12/31/2024 9:57	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-1.02	1	1	0	600	600	0
12/31/2024 9:57	54502	ENOL_T2	1	1	0	0.7	0.6	-0.1	-2.07	-2.09	1	1	0	600	600	0
12/31/2024 9:57	54505	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
12/31/2024 9:57	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 9:58	54505	ENOL_T2	1	1	0	1.1	1.1	0	-1.24	-1.24	1	1	0	600	600	0
12/31/2024 9:58	54502	ENOL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
12/31/2024 9:59	54505	ENOL_T2	1	1	0	1.1	1.1	0	-1.24	-1.24	1	1	0	600	600	0
12/31/2024 9:59	54502	ENOL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
12/31/2024 10:04	55002	NEWP_T1	6	7	1	0.67	0.97	0.3	-0.2	-0.2	0	0	0	0	0	0
12/31/2024 10:05	41902	REED_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/31/2024 10:05	55002	NEWP_T1	6	7	1	0.67	0.97	0.3	-0.4	-0.4	0	0	0	0	0	0
12/31/2024 10:05	41902	REED_T1	3	0	-3	0.2	0	-0.2	1.2	1.15	0	0	0	0	0	0
12/31/2024 10:06	14801	TREI_T2	0	1	1	0	0.1	0.1	0.57	0.56	0	0	0	0	0	0
12/31/2024 10:08	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 10:08	57205	ROSS_T1	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
12/31/2024 10:10	67402	WAKE_T2	1	0	-1	0.1	0	-0.1	0.44	0.45	1	1	0	600	600	0
12/31/2024 10:10	14801	TREI_T2	0	1	1	0	0.1	0.1	0.57	0.56	0	0	0	0	0	0
12/31/2024 10:10	67401	WAKE_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
12/31/2024 10:11	43801	SWIL_T1	1	2	1	4.9	2.7	-2.2	0	0	0	0	0	0	0	0
12/31/2024 10:11	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 10:13	52401	GRPA_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
12/31/2024 10:13	52403	GRPA_T2	1	18	17	0.8	0.54	-0.26	-0.09	-0.11	0	0	0	0	0	0
12/31/2024 10:13	52402	GRPA_T2	2	10	8	0.15	0.32	0.17	0	0	0	0	0	0	0	0
12/31/2024 10:16	13503	MCMI_T2	1	0	-1	9.2	0	-9.2	0.15	0.12	0	0	0	0	0	0
12/31/2024 10:21	64101	REFR_T1	0	1	1	0	0.1	0.1	-0.08	-0.08	0	0	0	0	0	0
12/31/2024 10:21	41901	REED_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
12/31/2024 10:21	41902	REED_T1	0	0	0	0	0	0	1.15	1.17	0	0	0	0	0	0
12/31/2024 10:22	64101	REFR_T1	0	1	1	0	0.1	0.1	-0.08	-0.11	0	0	0	0	0	0
12/31/2024 10:24	67401	WAKE_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
12/31/2024 10:24	67402	WAKE_T2	0	0	0	0	0	0	0.45	0.44	1	1	0	600	600	0
12/31/2024 10:24	14603	SWHI_T1	0	1	1	0	0.1	0.1	-1.61	-1.6	2	2	0	1200	1200	0
12/31/2024 10:25	60201	ATGL_T2	5	7	2	0.2	0.26	0.06	-0.08	-0.07	0	0	0	0	0	0
12/31/2024 10:26	14603	SWHI_T1	0	1	1	0	0.1	0.1	-1.61	-1.6	2	2	0	1200	1200	0
12/31/2024 10:26	42802	SEUI_T1	0	0	0	0	0	0	-2.45	-2.43	1	1	0	900	900	0
12/31/2024 10:29	53502	EVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
12/31/2024 10:29	53501	EVIL_T2	2	2	0	0.35	0.9	0.55	-0.54	-0.59	0	0	0	0	0	0
12/31/2024 10:30	53501	EVIL_T2	2	2	0	0.65	1.15	0.5	-0.54	-0.59	0	0	0	0	0	0
12/31/2024 10:31	53501	EVIL_T2	2	2	0	0.65	1.15	0.5	-1.09	-1.18	0	0	0	0	0	0
12/31/2024 10:31	42802	SEUI_T1	0	0	0	0	0	0	-2.45	-2.43	1	1	0	900	900	0
12/31/2024 10:32	53501	EVIL_T2	2	2	0	0.65	1.15	0.5	-0.54	-0.59	0	0	0	0	0	0
12/31/2024 10:32	64901	MILL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 10:32	64904	MILL_T1	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
12/31/2024 10:34	13303	ORVI_T1	0	0	0	0	0	0	0.9	0.92	0	0	0	0	0	0
12/31/2024 10:35	44901	SCOT_T2	55	154	99	0.24	0.44	0.2	0	0	0	0	0	0	0	0
12/31/2024 10:35	44902	SCOT_T2	0	5	5	0	0.28	0.28	-0.94	-0.96	0	0	0	0	0	0
12/31/2024 10:37	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 10:38	44901	SCOT_T2	55	154	99	0.24	0.44	0.2	-0.11	-0.31	0	0	0	0	0	0
12/31/2024 10:38	44902	SCOT_T2	0	5	5	0	0.28	0.28	0	0	0	0	0	0	0	0
12/31/2024 10:42	53501	EVIL_T2	2	2	0	0.65	1.15	0.5	-0.59	-0.6	0	0	0	0	0	0
12/31/2024 10:42	10801	CHHI_T1	0	4	4	0	0.2	0.2	-3.11	0	4	4	0	3000	3000	0
12/31/2024 10:43	60404	DILL_T2	1	1	0	4.9	2.7	-2.2	0.62	0.63	0	0	0	0	0	0
12/31/2024 10:43	60403	DILL_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/31/2024 10:44	53501	EVIL_T2	2	2	0	0.65	1.15	0.5	-0.59	-0.6	0	0	0	0	0	0
12/31/2024 10:46	60404	DILL_T2	1	1	0	6.8	2.7	-4.1	0.62	0.63	0	0	0	0	0	0
12/31/2024 10:46	61302	EARL_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
12/31/2024 10:46	61303	EARL_T1	0	0	0	0	0	0	0.33	0.15	0	0	0	0	0	0
12/31/2024 10:46	60403	DILL_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/31/2024 10:46	61304	EARL_T1	1	6	5	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
12/31/2024 10:48	20601	GRWO_T2	1	1	0	2.6	2.7	0.1	0	0	0	0	0	0	0	0
12/31/2024 10:48	20603	GRWO_T2	0	0	0	0	0	0	-0.63	-0.6	1	1	0	900	900	0
12/31/2024 10:51	46203	DANV_T2	0	0	0	0	0	0	-0.64	-0.6	0	0	0	0	0	0
12/31/2024 10:52	46203	DANV_T2	0	0	0	0	0	0	-0.6	-0.65	0	0	0	0	0	0
12/31/2024 10:55	46203	DANV_T2	0	0	0	0	0	0	-0.6	-0.65	0	0	0	0	0	0
12/31/2024 10:56	66201	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 10:56	66203	SISP_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
12/31/2024 11:01	60901	DONG_T2	1	3	2	0.8	0.37	-0.43	0	0	0	0	0	0	0	0
12/31/2024 11:01	60903	DONG_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
12/31/2024 11:01	60904	DONG_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/31/2024 11:01	60902	DONG_T2	2	4	2	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
12/31/2024 11:03	55501	HERS_T1	0	46	46	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 11:03	55507	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/31/2024 11:04	64802	MONE_T2	105	92	-13	0.29	0.22	-0.07	0	0	0	0	0	0	0	0
12/31/2024 11:04	64801	MONE_T2	36	9	-27	0.23	0.23	0	0	0	0	0	0	0	0	0
12/31/2024 11:04	55501	HERS_T1	0	46	46	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 11:04	55503	HERS_T1	0	0	0	0	0	0	0	0	0	1	0	1200	1200	0
12/31/2024 11:06	64801	MONE_T2	36	9	-27	0.23	0.23	0	0	0	0	0	0	0	0	0
12/31/2024 11:06	65206	PRIN_T4	23	18	-5	0.12	0.12	0	0	0	0	0	0	0	0	0
12/31/2024 11:06	65207	PRIN_T4	15	27	12	0.49	0.18	-0.31	0	0	0	0	0	0	0	0
12/31/2024 11:06	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 11:06	64802	MONE_T2	105	92	-13	0.29	0.22	-0.07	0.16	0.34	0	0	0	0	0	0
12/31/2024 11:07	64802	MONE_T2	105	92	-13	0.29	0.22	-0.07	0	0	0	0	0	0	0	0
12/31/2024 11:07	64801	MONE_T2	36	9	-27	0.23	0.23	0	0	0	0	0	0	0	0	0
12/31/2024 11:08	64801	MONE_T2	36	9	-27	0.23	0.23	0	0	0	0	0	0	0	0	0
12/31/2024 11:08	64802	MONE_T2	105	92	-13	0.29	0.22	-0.07	0	0	0	0	0	0	0	0
12/31/2024 11:10	46002	BERW_T2	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
12/31/2024 11:11	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 11:12	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 11:14	46001	BERW_T1	0	0	0	0	0	0	1.1	1.15	0	0	0	0	0	0
12/31/2024 11:15	28403	HART_T2	0	0	0	0	0	0	-0.72	-0.7	1	1	0	900	900	0
12/31/2024 11:15	46001	BERW_T1	0	0	0	0	0	0	1.1	1.15	0	0	0	0	0	0
12/31/2024 11:16	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 11:16	10101	ALLE_T3	2	2	0	3.1	5.95	2.85	0	0	0	0	0	0	0	0
12/31/2024 11:17	60903	DONG_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
12/31/2024 11:17	60904	DONG_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
12/31/2024 11:17	60901	DONG_T2	2	3	1	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
12/31/2024 11:17	60902	DONG_T2	2	5	3	0.4	0.24	-0.16	0.75	0.78	0	0	0	0	0	0
12/31/2024 11:18	52402	GRPA_T2	5	8	3	0.58	0.77	0.19	0	0	0	0	0	0	0	0
12/31/2024 11:18	52401	GRPA_T2	11	5	-6	0.16	0.26	0.1	0	0	0	0	0	0	0	0
12/31/2024 11:18	52403	GRPA_T2	15	31	16	0.56	0.6	0.04	-0.12	-0.18	0	0	0	0	0	0
12/31/2024 11:20	46803	HEPB_T2	1	4	3	0.2	0.15	-0.05	0.3	0.33	0	0	0	0	0	0
12/31/2024 11:20	46801	HEPB_T2	4	10	6	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
12/31/2024 11:21	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 11:21	54206	PENN_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
12/31/2024 11:21	44902	SCOT_T2	5	7	2	0.46	0.17	-0.29	0	0	0	0	0	0	0	0
12/31/2024 11:21	54202	PENN_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/31/2024 11:21	44901	SCOT_T2	77	71	-6	0.26	0.22	-0.04	-0.19	-0.36	0	0	0	0	0	0
12/31/2024 11:22	65205	PRIN_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
12/31/2024 11:23	54203	PENN_T1	23	20	-3	0.99	0.99	0	0.64	0.64	0	0	0	0	0	0
12/31/2024 11:23	54201	PENN_T1	10	10	0	0.76	0.72	-0.04	0	0	0	0	0	0	0	0
12/31/2024 11:24	14201	EALL_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
12/31/2024 11:24	14801	TREI_T2	0	1	1	0	0.3	0.3	0.49	0.49	0	0	0	0	0	0
12/31/2024 11:24	13704	SCHN_T2	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
12/31/2024 11:25	44301	BEAV_T2	6	3	-3	0.72	0.97	0.25	0	0	0	0	0	0	0	0
12/31/2024 11:25	44302	BEAV_T2	5	9	4	0.32	0.39	0.07	0	0	0	0	0	0	0	0
12/31/2024 11:26	14801	TREI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/31/2024 11:26	14802	TREI_T2	0	0	0	0	0	0	0.45	0.41	0	0	0	0	0	0
12/31/2024 11:26	44901	SCOT_T2	77	71	-6	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
12/31/2024 11:26	44902	SCOT_T2	5	7	2	0.46	0.17	-0.29	-0.91	-0.94	0	0	0	0	0	0
12/31/2024 11:27	44301	BEAV_T2	6	3	-3	0.72	0.97	0.25	-3.1	-3	4	4	0	3000	3000	0
12/31/2024 11:27	44302	BEAV_T2	5	9	4	0.32	0.39	0.07	0	0	0	0	0	0	0	0
12/31/2024 11:28	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
12/31/2024 11:28	10801	OHHI_T1	23	8	-15	0.28	0.51	0.23	-1.57	-1.57	2	2	0	1500	1500	0
12/31/2024 11:28	44302	BEAV_T2	5	9	4	0.32	0.39	0.07	0	0	0	0	0	0	0	0
12/31/2024 11:28	44301	BEAV_T2	6	3	-3	0.72	0.97	0.25	0	0	0	0	0	0	0	0
12/31/2024 11:29	44301	BEAV_T2	6	3	-3	0.72	0.97	0.25	-1.55	-1.5	2	2	0	1500	1500	0
12/31/2024 11:29	44302	BEAV_T2	5	9	4	0.32	0.39	0.07	0	0	0	0	0	0	0	0
12/31/2024 11:30	44302	BEAV_T2	9	12	3	0.39	0.22	-0.17	0	0	0	0	0	0	0	0
12/31/2024 11:30	41801	GOCI_T2	25	16	-9	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
12/31/2024 11:30	44301	BEAV_T2	3	4	1	0.97	0.7	-0.27	-1.55	-1.5	2	2	0	1500	1500	0
12/31/2024 11:31	61001	DONV_T1	1	1	0	0.4	0.2	-0.2	-0.08	-0.04	0	0	0	0	0	0
12/31/2024 11:31	41801	GOCI_T2	25	16	-9	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
12/31/2024 11:32	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.7	0	0	0	0	0	0
12/31/2024 11:34	41801	GOCI_T2	25	16	-9	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
12/31/2024 11:34	54603	SUMM_T2	0	0	0	0	0	0	-0.43	-0.39	1	1	0	900	900	0
12/31/2024 11:34	54601	SUMM_T2	3	5	2	0.53	0.42	-0.11	0	0	0	0	0	0	0	0
12/31/2024 11:34	58401	MORO_T1	0	0	0	0	0	0	-1.09	-1.08	1	1	0	600	600	0
12/31/2024 11:35	63501	HEID_TBK1-2	106	3	-103	0.41	0.2	-0.21	-0.17	0.72	1	0	-1	900	0	-900
12/31/2024 11:35	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.7	0	0	0	0	0	0
12/31/2024 11:35	54201	PENN_T1	8	10	2	0.76	0.72	-0.04	0	0	0	0	0	0	0	0
12/31/2024 11:35	54203	PENN_T1	20	20	0	0.91	1	0.09	0.64	0.64	0	0	0	0	0	0
12/31/2024 11:36	63501	HEID_TBK1-2	106	3	-103	0.41	0.2	-0.21	-0.17	0.72	1	0	-1	900	0	-900
12/31/2024 11:36	13701	SCHN_T2	0	4	4	0	0.23	0.23	-0.04	-0.04	1	1	0	600	600	0
12/31/2024 11:37	54201	PENN_T1	8	10	2	0.76	0.72	-0.04	0.12	0.09	0	0	0	0	0	0
12/31/2024 11:37	54203	PENN_T1	20	20	0	0.91	1	0.09	0	0	0	0	0	0	0	0
12/31/2024 11:38	14601	SWHI_T1	0	0	0	0	0	0	-1.56	-1.61	0	0	0	0	0	0
12/31/2024 11:38	14603	SWHI_T1	1	3	2	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
12/31/2024 11:38	54203	PENN_T1	20	20	0	0.91	1	0.09	0	0	0	0	0	0	0	0
12/31/2024 11:38	49803	UNIV_T1	1	1	0	5	5	0	0	0	0	0	0	0	0	0
12/31/2024 11:38	49804	UNIV_T1	0	5	5	0	0	0	0.46	0.48	0	0	0	0	0	0
12/31/2024 11:38	54201	PENN_T1	8	10	2	0.76	0.72	-0.04	0.12	0.09	0	0	0	0	0	0
12/31/2024 11:42	60902	DONG_T2	4	4	0	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
12/31/2024 11:42	14603	SWHI_T1	1	3	2	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
12/31/2024 11:42	60901	DONG_T2	3	2	-1	0.37	0.6	0.23	0	0	0	0	0	0	0	0
12/31/2024 11:42	16102	BING_T2	1	1	0	5.8	4.7	-1.1	-0.04	-0.06	0	0	0	0	0	0
12/31/2024 11:42	16103	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/31/2024 11:42	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 11:42	10101	ALLE_T3	2	2	0	5.95	6.05	0.1	0	0	0	0	0	0	0	0
12/31/2024 11:42	60903	DONG_T2	1	0	-1	0.5	0	-0.5	0.32	0.3	2	2	0	1200	1200	0
12/31/2024 11:42	60904	DONG_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
12/31/2024 11:42	14601	SWHI_T1	0	0	0	0	0	0	-0.78	-0.81	0	0	0	0	0	0
12/31/2024 11:42	60201	ATGL_T2	48	19	-29	0.23	0.22	-0.01	-0.12	-0.1	0	0	0	0	0	0
12/31/2024 11:43	60201	ATGL_T2	48	19	-29	0.23	0.22	-0.01	-0.12	-0.1	0	0	0	0	0	0
12/31/2024 11:44	43801	SWIL_T1	1	15	14	4.8	0.48	-4.32	0	0	0	0	0	0	0	0
12/31/2024 11:44	16103	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
12/31/2024 11:44	16102	BING_T2	1	1	0	5.8	4.7	-1.1	0	0	0	0	0	0	0	0
12/31/2024 11:44	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.17	1	1	0	600	600	0
12/31/2024 11:45	61701	ELIZ_T1	2	1	-1	3.1	6.1	3	0	0	0	0	0	0	0	0
12/31/2024 11:45	61703	ELIZ_T1	3	4	1	0.23	0.35	0.12	-1.9	-1.91	1	1	0	900	900	0
12/31/2024 11:45	53902	HALI_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
12/31/2024 11:45	53901	HALI_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
12/31/2024 11:45	53903	HALI_T2	6	20	14	0.78	0.39	-0.39	-0.18	-0.12	0	0	0	0	0	0
12/31/2024 11:46	53902	HALI_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
12/31/2024 11:46	53903	HALI_T2	6	20	14	0.78	0.39	-0.39	-0.09	-0.06	0	0	0	0	0	0
12/31/2024 11:46	53901	HALI_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
12/31/2024 11:47	44505	HAMI_T2	2	2	0	0.3	0.1	-0.2	0.26	0.25	0	0	0	0	0	0
12/31/2024 11:47	53903	HALI_T2	6	20	14	0.78	0.39	-0.39	0	0	0	0	0	0	0	0
12/31/2024 11:47	44502	HAMI_T2	1	1	0	2.9	2.8	-0.1	0	0	0	0	0	0	0	0
12/31/2024 11:47	53901	HALI_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
12/31/2024 11:47	53902	HALI_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
12/31/2024 11:48	44502	HAMI_T2	1	1	0	2.9	2.8	-0.1	0	0	0	0	0	0	0	0
12/31/2024 11:48	44505	HAMI_T2	2	2	0	0.3	0.1	-0.2	0.26	0.25	0	0	0	0	0	0
12/31/2024 11:49	46506	LOHA_T1	4	4	0	2.33	2.43	0.1	0	0	0	0	0	0	0	0
12/31/2024 11:49	46501	LOHA_T1	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
12/31/2024 11:49	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
12/31/2024 11:50	46501	LOHA_T1	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
12/31/2024 11:50	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
12/31/2024 11:50	46506	LOHA_T1	4	4	0	2.33	2.43	0.1	0	0	0	0	0	0	0	0
12/31/2024 11:52	14203	EALL_T1	0	0	0	0	0	0	0.87	0.98	0	0	0	0	0	0
12/31/2024 11:54	14603	SWHI_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
12/31/2024 11:54	14601	SWHI_T1	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
12/31/2024 11:54	14204	EALL_T2	0	0	0	0	0	0	0.92	0.8	0	0	0	0	0	0
12/31/2024 11:56	14203	EALL_T1	0	0	0	0	0	0	0.87	0.98	0	0	0	0	0	0
12/31/2024 11:56	14604	SWHI_T1	0	0	0	0	0	0	0.93	0.89	0	0	0	0	0	0
12/31/2024 11:56	14603	SWHI_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
12/31/2024 12:00	54504	ENOL_T2	0	0	0	0	0	0	-1.05	-0.92	1	1	0	600	600	0
12/31/2024 12:00	54502	ENOL_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
12/31/2024 12:00	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
12/31/2024 12:02	58102	NEKI_T1	1	2	1	1.1	0.6	-0.5	0.25	0.21	0	0	0	0	0	0
12/31/2024 12:02	58101	NEKI_T1	2	3	1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
12/31/2024 12:03	53901	HALI_T2	1	1	0	1.2	1.1	-0.1	-1.01	-1	0	0	0	0	0	0
12/31/2024 12:03	53902	HALI_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
12/31/2024 12:03	53903	HALI_T2	8	24	16	0.64	0.32	-0.32	0	0	0	0	0	0	0	0
12/31/2024 12:07	67106	SPRI_T2	0	0	0	0	0	0	-1.95	-1.96	2	2	0	1500	1500	0
12/31/2024 12:08	67106	SPRI_T2	0	0	0	0	0	0	-1.95	-1.96	2	2	0	1500	1500	0
12/31/2024 12:11	60101	COCA_T1	1	2	1	0.4	0.25	-0.15	0.23	0.25	0	0	0	0	0	0
12/31/2024 12:12	45302	WBER_T2	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
12/31/2024 12:12	45303	WBER_T2	1	1	0	9.5	9.5	0	0	0	0	0	0	0	0	0
12/31/2024 12:12	60101	COCA_T1	1	2	1	0.4	0.25	-0.15	0.23	0.25	0	0	0	0	0	0
12/31/2024 12:13	64304	LINC_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
12/31/2024 12:13	60101	COCA_T1	1	2	1	0.4	0.25	-0.15	0.46	0.5	0	0	0	0	0	0
12/31/2024 12:13	64302	LINC_T2	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
12/31/2024 12:14	64305	LINC_T1	4	3	-1	0.35	0.37	0.02	-0.3	-0.34	0	0	0	0	0	0
12/31/2024 12:16	60101	COCA_T1	1	4	3	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
12/31/2024 12:16	60102	COCA_T1	0	0	0	0	0	0	-0.61	-0.79	2	2	0	1200	1200	0
12/31/2024 12:16	11301	EMMA_T1	0	0	0	0	0	0	-0.79	-0.83	0	0	0	0	0	0
12/31/2024 12:17	21901	HUMB_T1	0	0	0	0	0	0	-2	-1.98	0	0	0	0	0	0
12/31/2024 12:19	58401	MORO_T1	0	0	0	0	0	0	-1.1	-1.12	1	1	0	600	600	0
12/31/2024 12:19	58402	MORO_T1	0	0	0	0	0	0	0.51	0.46	1	1	0	900	900	0
12/31/2024 12:22	60101	COCA_T1	1	4	3	0.4	0.38	-0.02	0.25	0.24	0	0	0	0	0	0
12/31/2024 12:22	58401	MORO_T1	0	0	0	0	0	0	-1.12	-1.13	1	1	0	600	600	0
12/31/2024 12:25	61304	EARL_T1	0	7	7	0	0	0	-0.18	-0.09	0	0	0	0	0	0
12/31/2024 12:25	61302	EARL_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
12/31/2024 12:27	54601	SUMM_T2	3	5	2	0.53	0.4	-0.13	-1.91	-1.84	2	2	0	2100	2100	0
12/31/2024 12:29	64202	KINZ_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
12/31/2024 12:29	64204	KINZ_T1	15	15	0	0.27	0.35	0.08	0	0	0	0	0	0	0	0
12/31/2024 12:30	63801	HEMP_T1	2	5	3	0.75	0.38	-0.37	-1.01	-1.12	1	1	0	900	900	0
12/31/2024 12:30	63803	HEMP_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
12/31/2024 12:30	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
12/31/2024 12:34	40101	HUNT_T2	113	64	-49	0.44	0.43	-0.01	-0.45	-0.51	0	0	0	0	0	0
12/31/2024 12:36	64101	REFR_T1	1	1	0	0.4	0.1	-0.3	-0.09	-0.11	0	0	0	0	0	0
12/31/2024 12:36	44201	POIN_T1	189	207	18	0.37	0.41	0.04	-1.99	-2.01	2	2	0	2100	2100	0
12/31/2024 12:37	64101	REFR_T1	1	1	0	0.4	0.1	-0.3	-0.23	-0.3	0	0	0	0	0	0
12/31/2024 12:37	44201	POIN_T1	189	207	18	0.37	0.41	0.04	-2.01	-2.09	2	2	0	2100	2100	0
12/31/2024 12:38	44201	POIN_T1	189	207	18	0.37	0.41	0.04	-4.03	-4.18	4	4	0	4200	4200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/31/2024 12:38	64101	REFR_T1	1	1	0	0.4	0.1	-0.3	-0.57	-0.75	0	0	0	0	0	0
12/31/2024 12:39	44201	POIN_T1	189	207	18	0.37	0.41	0.04	-2.01	-2.09	2	2	0	2100	2100	0
12/31/2024 12:39	57205	ROSS_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
12/31/2024 12:39	64101	REFR_T1	1	1	0	0.4	0.1	-0.3	-0.11	-0.15	0	0	0	0	0	0
12/31/2024 12:39	57201	ROSS_T1	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
12/31/2024 12:39	57203	ROSS_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
12/31/2024 12:40	44201	POIN_T1	189	207	18	0.37	0.41	0.04	-2.01	-2.09	2	2	0	2100	2100	0
12/31/2024 12:41	42701	AUGU_T1	1	1	0	0.7	1.1	0.4	0	0	2	2	0	1800	1800	0
12/31/2024 12:41	44201	POIN_T1	189	207	18	0.37	0.41	0.04	-4.03	-4.18	4	4	0	4200	4200	0
12/31/2024 12:43	42701	AUGU_T1	1	1	0	0.7	1.1	0.4	0	0	2	2	0	1800	1800	0
12/31/2024 12:53	44601	SALE_T2	1	0	-1	9.2	0	-9.2	-0.1	-0.15	0	0	0	0	0	0
12/31/2024 12:54	44601	SALE_T2	1	0	-1	9.2	0	-9.2	-0.1	-0.15	0	0	0	0	0	0
12/31/2024 12:55	53903	HALI_T2	7	18	11	0.64	0.35	-0.29	0	0	0	0	0	0	0	0
12/31/2024 12:55	53901	HALI_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
12/31/2024 12:55	53902	HALI_T2	1	1	0	6.3	6.4	0.1	-0.2	-0.2	0	0	0	0	0	0
12/31/2024 13:00	61001	DONV_T1	1	1	0	1	0.7	-0.3	-0.1	-0.1	0	0	0	0	0	0
12/31/2024 13:00	10805	CHHI_T2	1	1	0	7.6	7.7	0.1	-1	-1.02	1	1	0	600	600	0
12/31/2024 13:02	10805	CHHI_T2	1	1	0	7.6	7.7	0.1	-1	-1.02	1	1	0	600	600	0
12/31/2024 13:04	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 13:11	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 13:14	64305	LINC_T1	2	1	-1	0.4	0.5	0.1	-0.33	-0.32	0	0	0	0	0	0
12/31/2024 13:17	41301	FISH_T1	57	73	16	0.18	0.21	0.03	-0.37	-0.36	0	0	0	0	0	0
12/31/2024 13:17	41305	FISH_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
12/31/2024 13:19	65503	MOJO_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
12/31/2024 13:19	65502	MOJO_T2	0	0	0	0	0	0	-0.15	-0.34	0	0	0	0	0	0
12/31/2024 13:19	65501	MOJO_T1	1	1	0	0.2	0.2	0	-0.53	-0.48	1	1	0	900	900	0
12/31/2024 13:21	64101	REFR_T1	1	3	2	0.2	0.43	0.23	-0.17	-0.18	0	0	0	0	0	0
12/31/2024 13:21	27501	WEIS_T1	0	0	0	0	0	0	-1.07	-1.1	1	1	0	1200	1200	0
12/31/2024 13:22	65503	MOJO_T2	0	2	2	0	0.45	0.45	-0.62	-0.68	0	0	0	0	0	0
12/31/2024 13:22	64101	REFR_T1	1	3	2	0.2	0.43	0.23	-0.18	-0.18	0	0	0	0	0	0
12/31/2024 13:22	65502	MOJO_T2	0	0	0	0	0	0	-0.34	-0.46	0	0	0	0	0	0
12/31/2024 13:23	60404	DILL_T2	0	0	0	0	0	0	0.68	0.54	0	0	0	0	0	0
12/31/2024 13:24	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 13:25	64101	REFR_T1	1	3	2	0.2	0.43	0.23	-0.18	-0.18	0	0	0	0	0	0
12/31/2024 13:27	60801	BUCK_T1	1	2	1	0.6	0.3	-0.3	0.07	0.15	0	0	0	0	0	0
12/31/2024 13:27	60803	BUCK_T1	11	14	3	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
12/31/2024 13:34	45802	HEGI_T2	12	24	12	0.32	0.44	0.12	0	0	0	0	0	0	0	0
12/31/2024 13:35	46501	LOHA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
12/31/2024 13:35	46502	LOHA_T1	0	0	0	0	0	0	-2.76	-2.71	1	1	0	1200	1200	0
12/31/2024 13:35	46506	LOHA_T1	3	4	1	3.7	3	-0.7	0	0	0	0	0	0	0	0
12/31/2024 13:43	23502	GEOR_T1	0	0	0	0	0	0	-0.13	-0.07	0	0	0	0	0	0
12/31/2024 13:46	61305	EARL_T1	0	0	0	0	0	0	0.18	-0.01	1	1	0	600	600	0
12/31/2024 13:46	41202	KENM_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
12/31/2024 13:46	41205	KENM_T2	0	0	0	0	0	0	-0.75	-0.74	1	1	0	600	600	0
12/31/2024 13:51	64101	REFR_T1	2	0	-2	0.4	0	-0.4	-0.54	-0.43	0	0	0	0	0	0
12/31/2024 13:52	64101	REFR_T1	2	0	-2	0.4	0	-0.4	-0.29	-0.27	0	0	0	0	0	0
12/31/2024 13:53	64101	REFR_T1	2	0	-2	0.4	0	-0.4	-0.14	-0.13	0	0	0	0	0	0
12/31/2024 13:54	64101	REFR_T1	2	0	-2	0.4	0	-0.4	-0.29	-0.27	0	0	0	0	0	0
12/31/2024 13:55	64101	REFR_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/31/2024 13:55	40601	PIGR_T1	23	43	20	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
12/31/2024 13:55	40602	PIGR_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
12/31/2024 13:56	64101	REFR_T1	2	0	-2	0.4	0	-0.4	-0.29	-0.27	0	0	0	0	0	0
12/31/2024 13:57	40602	PIGR_T1	1	1	0	1.1	0.9	-0.2	-0.73	-0.75	1	1	0	600	600	0
12/31/2024 13:57	60902	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 13:57	60903	DONG_T2	0	1	1	0	0.1	0.1	-0.05	-0.04	1	1	0	600	600	0
12/31/2024 13:57	40601	PIGR_T1	23	43	20	0.16	0.13	-0.03	-0.85	-0.83	0	0	0	0	0	0
12/31/2024 13:57	64101	REFR_T1	2	0	-2	0.4	0	-0.4	-0.14	-0.13	0	0	0	0	0	0
12/31/2024 13:59	40601	PIGR_T1	23	43	20	0.16	0.13	-0.03	-0.85	-0.83	0	0	0	0	0	0
12/31/2024 13:59	40602	PIGR_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
12/31/2024 14:00	40601	PIGR_T1	35	87	52	0.13	0.18	0.05	0	0	0	0	0	0	0	0
12/31/2024 14:00	40602	PIGR_T1	1	1	0	1.1	0.9	-0.2	-0.73	-0.75	1	1	0	600	600	0
12/31/2024 14:01	40602	PIGR_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
12/31/2024 14:01	40601	PIGR_T1	35	87	52	0.13	0.18	0.05	0	0	0	0	0	0	0	0
12/31/2024 14:01	64101	REFR_T1	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
12/31/2024 14:01	41202	KENM_T2	1	1	0	1	0.8	-0.2	-0.56	-0.56	0	0	0	0	0	0
12/31/2024 14:05	63602	LETO_T1	0	49	49	0	0.15	0.15	-0.52	-0.56	0	0	0	0	0	0
12/31/2024 14:05	63601	LETO_T1	7	7	0	0.74	0.94	0.2	0	0	0	0	0	0	0	0
12/31/2024 14:06	63602	LETO_T1	0	49	49	0	0.15	0.15	-0.52	-0.56	0	0	0	0	0	0
12/31/2024 14:06	63601	LETO_T1	7	7	0	0.74	0.94	0.2	0	0	0	0	0	0	0	0
12/31/2024 14:16	60902	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 14:16	60903	DONG_T2	0	1	1	0	0.1	0.1	-0.04	-0.05	1	1	0	600	600	0
12/31/2024 14:21	44703	MUNC_T2	3	3	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
12/31/2024 14:21	44702	MUNC_T2	91	131	40	0.32	0.36	0.04	0	0	0	0	0	0	0	0
12/31/2024 14:21	44701	MUNC_T2	4	5	1	0.23	0.32	0.09	-1.2	-1.17	0	0	0	0	0	0
12/31/2024 14:22	14702	TREX_T2	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
12/31/2024 14:24	14702	TREX_T2	0	0	0	0	0	0	0.74	0.78	0	0	0	0	0	0
12/31/2024 14:24	14303	SUMN_T1	3	3	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
12/31/2024 14:24	14302	SUMN_T1	10	11	1	0.65	0.61	-0.04	0	0	0	0	0	0	0	0
12/31/2024 14:24	14308	SUMN_T1	27	28	1	1.31	0.87	-0.44	0.23	0.24	0	0	0	0	0	0
12/31/2024 14:24	14301	SUMN_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 14:26	14702	TREX_T2	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
12/31/2024 14:27	44203	POIN_T2	2	0	-2	1.4	0	-1.4	0	0	0	0	0	0	0	0
12/31/2024 14:35	47103	MARL_T2	53	66	13	0.43	0.48	0.05	-0.56	-0.55	0	0	0	0	0	0
12/31/2024 14:35	47102	MARL_T2	15	21	6	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
12/31/2024 14:40	14204	EALL_T2	0	0	0	0	0	0	1	0.8	0	0	0	0	0	0
12/31/2024 14:50	64701	LITI_T1	0	0	0	0	0	0	0.31	0.27	0	0	0	0	0	0
12/31/2024 14:56	60803	BUCK_T1	11	10	-1	0.25	0.2	-0.05	-1.12	-1.1	2	2	0	1200	1200	0
12/31/2024 15:00	60803	BUCK_T1	9	6	-3	0.21	0.17	-0.04	-1.12	-1.1	2	2	0	1200	1200	0
12/31/2024 15:01	60803	BUCK_T1	9	6	-3	0.21	0.17	-0.04	-0.56	-0.55	1	1	0	600	600	0
12/31/2024 15:04	61502	EPET_T1	7	41	34	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
12/31/2024 15:04	61503	EPET_T1	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
12/31/2024 15:10	54601	SUMM_T2	1	1	0	0.1	0.4	0.3	-1.89	-1.87	2	2	0	2100	2100	0
12/31/2024 15:10	42501	ALTA_T2	0	1	1	0	0	0	-0.04	-0.06	1	1	0	600	600	0
12/31/2024 15:19	15603	NSTR_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
12/31/2024 15:21	54601	SUMM_T2	1	1	0	0.3	0.4	0.1	-1.87	-1.91	2	2	0	2100	2100	0
12/31/2024 15:52	66505	SMAN_T2	3	2	-1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
12/31/2024 15:52	66504	SMAN_T2	0	0	0	0	0	0	-0.5	-0.48	0	0	0	0	0	0
12/31/2024 15:54	66504	SMAN_T2	0	0	0	0	0	0	-0.5	-0.48	0	0	0	0	0	0
12/31/2024 15:54	66505	SMAN_T2	3	2	-1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
12/31/2024 16:35	60803	BUCK_T1	0	1	1	0	0.1	0.1	-0.53	-0.54	1	1	0	600	600	0
12/31/2024 17:42	14204	EALL_T2	1	0	-1	0.2	0	-0.2	0.55	0.57	0	0	0	0	0	0
12/31/2024 17:46	61801	EELI_T2	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
12/31/2024 18:01	44301	BEAV_T2	2	2	0	1.3	2.1	0.8	0	0	0	0	0	0	0	0
12/31/2024 18:04	44301	BEAV_T2	2	2	0	1.3	2.1	0.8	0	0	0	0	0	0	0	0
12/31/2024 18:04	13303	ORVI_T1	883	1	-882	6.69	0	-6.69	0.63	0.49	0	0	0	0	0	0
12/31/2024 18:05	61001	DONV_T1	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
12/31/2024 18:14	57203	ROSS_T1	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
12/31/2024 18:15	57203	ROSS_T1	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
12/31/2024 18:16	44201	POIN_T1	143	151	8	0.35	0.35	0	-2.28	-2.16	2	2	0	2100	2100	0
12/31/2024 18:16	54203	PENN_T1	18	18	0	1.06	1.19	0.13	0	0	0	0	0	0	0	0
12/31/2024 18:16	54201	PENN_T1	5	10	5	1.04	0.72	-0.32	0.11	0.23	0	0	0	0	0	0
12/31/2024 18:17	54502	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/31/2024 18:17	57201	ROSS_T1	0	0	0	0	0	0	-1.03	-1.04	0	0	0	0	0	0
12/31/2024 18:17	44201	POIN_T1	143	151	8	0.35	0.35	0	-2.28	-2.16	2	2	0	2100	2100	0
12/31/2024 18:17	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	-1.32	-1.32	1	1	0	600	600	0
12/31/2024 18:18	57201	ROSS_T1	0	0	0	0	0	0	-1.03	-1.04	0	0	0	0	0	0
12/31/2024 18:18	54506	ENOL_T2	0	0	0	0	0	0	0.4	0.37	1	1	0	600	600	0
12/31/2024 18:18	54502	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/31/2024 18:18	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
12/31/2024 18:18	57205	ROSS_T1	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
12/31/2024 18:19	54201	PENN_T1	5	10	5	1.04	0.72	-0.32	0	0	0	0	0	0	0	0
12/31/2024 18:19	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
12/31/2024 18:19	54203	PENN_T1	18	18	0	1.06	1.19	0.13	0.6	0.61	0	0	0	0	0	0
12/31/2024 18:20	44201	POIN_T1	143	151	8	0.35	0.35	0	-2.28	-2.16	2	2	0	2100	2100	0
12/31/2024 18:21	54206	PENN_T2	0	5	5	0	0.1	0.1	-0.1	-0.04	0	0	0	0	0	0
12/31/2024 18:21	44201	POIN_T1	143	151	8	0.35	0.35	0	-4.56	-4.33	4	4	0	4200	4200	0
12/31/2024 18:21	52402	GRPA_T2	3	3	0	0.27	0.53	0.26	-1.36	-1.44	0	0	0	0	0	0
12/31/2024 18:21	54204	PENN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:22	44502	HAMI_T2	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
12/31/2024 18:22	44702	MUNC_T2	118	144	26	0.44	0.5	0.06	0	0	0	0	0	0	0	0
12/31/2024 18:22	44703	MUNC_T2	3	3	0	0.73	1.23	0.5	0	0	0	0	0	0	0	0
12/31/2024 18:22	54502	ENOL_T2	0	1	1	0	0.4	0.4	-2.02	-1.96	1	1	0	600	600	0
12/31/2024 18:22	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
12/31/2024 18:22	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 18:22	44701	MUNC_T2	9	14	5	0.2	0.19	-0.01	-1.38	-1.36	0	0	0	0	0	0
12/31/2024 18:23	54201	PENN_T1	5	10	5	1.04	0.72	-0.32	0	0	0	0	0	0	0	0
12/31/2024 18:23	46206	DANV_T2	0	0	0	0	0	0	1.51	1.45	2	2	0	2100	2100	0
12/31/2024 18:23	54203	PENN_T1	18	18	0	1.06	1.19	0.13	0.61	0.63	0	0	0	0	0	0
12/31/2024 18:23	40101	HUNT_T2	7	9	2	0.77	0.53	-0.24	-1.19	-1.17	0	0	0	0	0	0
12/31/2024 18:24	14302	SUMN_T1	14	9	-5	1.14	0.61	-0.53	0	0	0	0	0	0	0	0
12/31/2024 18:24	14301	SUMN_T1	4	1	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
12/31/2024 18:24	54603	SUMM_T2	0	2	2	0	0.3	0.3	-0.45	-0.41	1	1	0	900	900	0
12/31/2024 18:24	52402	GRPA_T2	3	3	0	0.27	0.53	0.26	0	0	0	0	0	0	0	0
12/31/2024 18:24	14304	SUMN_T1	1	0	-1	2.8	0	-2.8	0	0	0	0	0	0	0	0
12/31/2024 18:24	14306	SUMN_T1	7	8	1	0.53	0	-0.53	0	0	0	0	0	0	0	0
12/31/2024 18:24	54601	SUMM_T2	9	12	3	0.66	0.72	0.06	0	0	0	0	0	0	0	0
12/31/2024 18:24	14308	SUMN_T1	41	76	35	0.64	1.02	0.38	0.24	0.23	0	0	0	0	0	0
12/31/2024 18:24	52403	GRPA_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
12/31/2024 18:24	14303	SUMN_T1	4	11	7	5.13	2.34	-2.79	0	0	0	0	0	0	0	0
12/31/2024 18:25	44502	HAMI_T2	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
12/31/2024 18:25	44505	HAMI_T2	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
12/31/2024 18:25	60902	DONG_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:25	60903	DONG_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
12/31/2024 18:25	55002	NEWP_T1	4	4	0	0.45	0.83	0.38	-0.26	-0.26	0	0	0	0	0	0
12/31/2024 18:26	60903	DONG_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
12/31/2024 18:26	65502	MOJO_T2	29	289	260	0.1	0.28	0.18	0	0	0	0	0	0	0	0
12/31/2024 18:26	60902	DONG_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:26	52403	GRPA_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
12/31/2024 18:26	52402	GRPA_T2	3	3	0	0.27	0.53	0.26	0	0	0	0	0	0	0	0
12/31/2024 18:26	65503	MOJO_T2	0	103	103	0	0.17	0.17	-0.43	-0.44	0	0	0	0	0	0
12/31/2024 18:26	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 18:27	52403	GRPA_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
12/31/2024 18:27	52402	GRPA_T2	3	3	0	0.27	0.53	0.26	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/31/2024 18:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 18:27	52404	GRPA_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
12/31/2024 18:28	14203	EALL_T1	0	0	0	0	0	0	0.76	0.77	0	0	0	0	0	0
12/31/2024 18:28	65502	MOJO_T2	29	289	260	0.1	0.28	0.18	-1.23	-1.2	0	0	0	0	0	0
12/31/2024 18:28	60902	DONG_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:28	44201	POIN_T1	143	151	8	0.35	0.35	0	-2.16	-2.22	2	2	0	2100	2100	0
12/31/2024 18:28	65503	MOJO_T2	0	103	103	0	0.17	0.17	0	0	0	0	0	0	0	0
12/31/2024 18:28	46206	DANV_T2	0	0	0	0	0	0	1.51	1.45	2	2	0	2100	2100	0
12/31/2024 18:28	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-0.99	0	0	0	0	0	0
12/31/2024 18:28	60903	DONG_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
12/31/2024 18:29	60902	DONG_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:29	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 18:29	55002	NEWP_T1	4	4	0	0.45	0.83	0.38	-0.26	-0.26	0	0	0	0	0	0
12/31/2024 18:30	66501	SMAN_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
12/31/2024 18:30	66505	SMAN_T2	3	3	0	0.63	1.47	0.84	0	0	0	0	0	0	0	0
12/31/2024 18:30	66502	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:30	64101	REFR_T1	0	0	0	0	0	0	-0.14	-0.18	0	0	0	0	0	0
12/31/2024 18:30	44201	POIN_T1	113	159	46	0.29	0.36	0.07	-2.16	-2.22	2	2	0	2100	2100	0
12/31/2024 18:30	66504	SMAN_T2	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
12/31/2024 18:31	60403	DILL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
12/31/2024 18:31	60404	DILL_T2	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
12/31/2024 18:31	60903	DONG_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
12/31/2024 18:31	60902	DONG_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
12/31/2024 18:31	64101	REFR_T1	0	0	0	0	0	0	-0.14	-0.18	0	0	0	0	0	0
12/31/2024 18:32	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
12/31/2024 18:32	46203	DANV_T2	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
12/31/2024 18:32	53903	HALI_T2	2	2	0	1.25	1.35	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:32	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:32	44301	BEAV_T2	2	2	0	1.2	0.9	-0.3	-1.53	-1.53	1	1	0	600	600	0
12/31/2024 18:33	29402	BELT_T1	1	1	0	5.9	6.5	0.6	0	0	0	0	0	0	0	0
12/31/2024 18:33	54502	ENOL_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
12/31/2024 18:33	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	900	900	0
12/31/2024 18:33	54505	ENOL_T2	1	1	0	0.8	1	0.2	-1.32	-1.32	1	1	0	600	600	0
12/31/2024 18:34	14603	SWHI_T1	0	0	0	0	0	0	-1.61	-1.65	2	2	0	1200	1200	0
12/31/2024 18:34	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:34	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/31/2024 18:34	41202	KENM_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
12/31/2024 18:34	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 18:34	44201	POIN_T1	113	159	46	0.29	0.36	0.07	-2.16	-2.22	2	2	0	2100	2100	0
12/31/2024 18:34	53903	HALI_T2	2	2	0	1.25	1.35	0.1	-0.11	-0.11	0	0	0	0	0	0
12/31/2024 18:34	40602	PIGR_T1	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
12/31/2024 18:34	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
12/31/2024 18:34	64101	REFR_T1	0	0	0	0	0	0	-0.14	-0.18	0	0	0	0	0	0
12/31/2024 18:34	40601	PIGR_T1	25	64	39	0.12	0.18	0.06	0	0	0	0	0	0	0	0
12/31/2024 18:34	53501	EVIL_T2	2	1	-1	0.6	0.5	-0.1	-1.65	-1.43	0	0	0	0	0	0
12/31/2024 18:35	40801	EXCH_T2	4	3	-1	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
12/31/2024 18:35	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 18:35	40601	PIGR_T1	25	64	39	0.12	0.18	0.06	0	0	0	0	0	0	0	0
12/31/2024 18:35	64701	LITI_T1	0	0	0	0	0	0	0.16	0.21	0	0	0	0	0	0
12/31/2024 18:35	44502	HAMI_T2	1	1	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
12/31/2024 18:35	41205	KENM_T2	0	0	0	0	0	0	-0.77	-0.78	1	1	0	600	600	0
12/31/2024 18:35	41802	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:35	40802	EXCH_T2	3	3	0	0.1	0.13	0.03	-0.28	-0.28	0	0	0	0	0	0
12/31/2024 18:35	64702	LITI_T2	0	0	0	0	0	0	-0.83	-0.87	0	0	0	0	0	0
12/31/2024 18:35	40602	PIGR_T1	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
12/31/2024 18:35	21901	HUMB_T1	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
12/31/2024 18:35	44505	HAMI_T2	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
12/31/2024 18:35	63501	HEID_TBK1-2	1	16	15	1.2	0.23	-0.97	0	0	0	0	0	0	0	0
12/31/2024 18:35	43801	SWIL_T1	11	25	14	0.74	0.46	-0.28	0	0	0	0	0	0	0	0
12/31/2024 18:35	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 18:36	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:36	46002	BERW_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
12/31/2024 18:36	46004	BERW_T2	4	5	1	0.75	0.97	0.22	0	0	0	0	0	0	0	0
12/31/2024 18:36	14801	TREI_T2	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
12/31/2024 18:36	14702	TREX_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
12/31/2024 18:36	10105	ALLE_T3	8	8	0	0.63	0	-0.63	0	0	0	0	0	0	0	0
12/31/2024 18:36	16102	BING_T2	1	1	0	4.9	4.1	-0.8	-0.12	-0.12	0	0	0	0	0	0
12/31/2024 18:36	14705	TREX_T1	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
12/31/2024 18:36	14201	EALL_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
12/31/2024 18:36	10205	ALLE_T3	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
12/31/2024 18:36	10101	ALLE_T3	3	5	2	3.93	4.5	0.57	0	0	0	0	0	0	0	0
12/31/2024 18:36	63602	LETO_T1	62	93	31	0.14	0.18	0.04	-0.49	-0.55	0	0	0	0	0	0
12/31/2024 18:36	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
12/31/2024 18:36	63601	LETO_T1	7	7	0	0.94	1.04	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:36	10107	ALLE_T3	8	1	-7	0.36	0	-0.36	0	0	0	0	0	0	0	0
12/31/2024 18:36	14704	TREX_T1	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
12/31/2024 18:36	53903	HALI_T2	2	2	0	1.25	1.35	0.1	-0.11	-0.11	0	0	0	0	0	0
12/31/2024 18:36	14802	TREI_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
12/31/2024 18:37	53903	HALI_T2	2	2	0	1.25	1.35	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:37	47203	FAXO_T2	1	1	0	0.2	0.1	-0.1	-1.74	-1.75	1	1	0	1200	1200	0
12/31/2024 18:37	53501	EVIL_T2	2	1	-1	0.6	0.5	-0.1	-0.71	-0.73	0	0	0	0	0	0
12/31/2024 18:37	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
12/31/2024 18:37	64302	LINC_T2	0	0	0	0	0	0	0.48	0.36	0	0	0	0	0	0
12/31/2024 18:37	53901	HALI_T2	0	1	1	0	0.1	0.1	-0.94	-0.96	0	0	0	0	0	0
12/31/2024 18:38	53501	EVIL_T2	2	1	-1	0.6	0.5	-0.1	-0.71	-0.73	0	0	0	0	0	0
12/31/2024 18:38	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 18:38	13701	SCHN_T2	0	0	0	0	0	0	-0.11	-0.11	1	1	0	600	600	0
12/31/2024 18:38	40702	FFLD_T1	145	186	41	0.36	0.55	0.19	0	0	0	0	0	0	0	0
12/31/2024 18:38	14203	EALL_T1	0	0	0	0	0	0	0.77	0.75	0	0	0	0	0	0
12/31/2024 18:38	14801	TREI_T2	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
12/31/2024 18:38	46203	DANV_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
12/31/2024 18:38	40701	FFLD_T1	31	62	31	0.4	0.44	0.04	0	0	0	0	0	0	0	0
12/31/2024 18:38	14601	SWHI_T1	0	0	0	0	0	0	-1.66	-1.64	0	0	0	0	0	0
12/31/2024 18:38	55002	NEWP_T1	4	4	0	0.83	0.88	0.05	-0.26	-0.24	0	0	0	0	0	0
12/31/2024 18:38	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
12/31/2024 18:38	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/31/2024 18:38	40703	FFLD_T1	4	4	0	0.38	0.6	0.22	0	0	0	0	0	0	0	0
12/31/2024 18:38	10801	CHHI_T1	0	0	0	0	0	0	-1.51	-1.55	2	2	0	1500	1500	0
12/31/2024 18:38	43802	SWIL_T1	0	0	0	0	0	0	-0.19	-0.2	1	1	0	600	600	0
12/31/2024 18:38	14204	EALL_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
12/31/2024 18:38	14702	TREX_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
12/31/2024 18:38	43801	SWIL_T1	11	25	14	0.74	0.46	-0.28	0	0	0	0	0	0	0	0
12/31/2024 18:38	44301	BEAV_T2	2	2	0	1.2	0.9	-0.3	-1.53	-1.57	1	1	0	600	600	0
12/31/2024 18:39	47102	MARL_T2	13	18	5	0.62	0.66	0.04	0	0	0	0	0	0	0	0
12/31/2024 18:39	47103	MARL_T2	23	46	23	0.21	0.28	0.07	-0.56	-0.6	0	0	0	0	0	0
12/31/2024 18:39	54206	PENN_T2	0	33	33	0	0.11	0.11	-0.08	-0.17	0	0	0	0	0	0
12/31/2024 18:39	54204	PENN_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
12/31/2024 18:39	55002	NEWP_T1	4	4	0	0.83	0.88	0.05	-0.26	-0.24	0	0	0	0	0	0
12/31/2024 18:39	46203	DANV_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
12/31/2024 18:39	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.3	0	0	0	0	0	0
12/31/2024 18:39	29402	BELT_T1	1	1	0	5.9	6.5	0.6	0	0	0	0	0	0	0	0
12/31/2024 18:39	54202	PENN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:39	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:39	58401	MORO_T1	0	0	0	0	0	0	-1.05	-1.02	1	1	0	600	600	0
12/31/2024 18:40	11301	EMMA_T1	0	0	0	0	0	0	-0.85	-0.82	0	0	0	0	0	0
12/31/2024 18:40	14601	SWHI_T1	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
12/31/2024 18:40	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 18:40	60101	COCA_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
12/31/2024 18:40	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
12/31/2024 18:40	46506	LOHA_T1	4	4	0	2.75	3.08	0.33	0	0	0	0	0	0	0	0
12/31/2024 18:40	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.3	0	0	0	0	0	0
12/31/2024 18:40	53903	HALI_T2	2	2	0	1.25	1.35	0.1	-0.11	-0.11	0	0	0	0	0	0
12/31/2024 18:40	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:40	11507	FREE_T2	0	2	2	0	0	0	0.2	0.17	0	0	0	0	0	0
12/31/2024 18:40	46502	LOHA_T1	0	0	0	0	0	0	-2.85	-2.86	1	1	0	1200	1200	0
12/31/2024 18:40	53501	EVIL_T2	2	1	-1	0.6	0.5	-0.1	-0.71	-0.73	0	0	0	0	0	0
12/31/2024 18:40	14702	TREX_T2	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
12/31/2024 18:40	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/31/2024 18:40	26704	HEML_T2	0	0	0	0	0	0	-0.85	-0.87	1	1	0	1200	1200	0
12/31/2024 18:40	46803	HEPB_T2	0	0	0	0	0	0	0.23	0.26	0	0	0	0	0	0
12/31/2024 18:40	10805	CHHI_T2	2	1	-1	4.1	7.4	3.3	-1.21	-1.22	1	1	0	600	600	0
12/31/2024 18:41	44901	SCOT_T2	3	6	3	0.1	0.22	0.12	-0.72	-0.73	0	0	0	0	0	0
12/31/2024 18:41	40602	PIGR_T1	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
12/31/2024 18:41	40601	PIGR_T1	25	64	39	0.12	0.18	0.06	-0.18	-0.12	0	0	0	0	0	0
12/31/2024 18:41	44301	BEAV_T2	2	2	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
12/31/2024 18:41	44902	SCOT_T2	0	10	10	0	0.14	0.14	0	0	0	0	0	0	0	0
12/31/2024 18:41	63501	HEID_TBK1-2	1	16	15	1.2	0.23	-0.97	1.17	0.87	0	0	0	0	0	0
12/31/2024 18:42	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 18:42	44901	SCOT_T2	3	6	3	0.1	0.22	0.12	-0.72	-0.73	0	0	0	0	0	0
12/31/2024 18:42	60803	BUCK_T1	6	12	6	0.22	0.23	0.01	0	0	0	0	0	0	0	0
12/31/2024 18:42	44902	SCOT_T2	0	10	10	0	0.14	0.14	0	0	0	0	0	0	0	0
12/31/2024 18:42	62105	ELAN_T1	94	278	184	0.16	0.27	0.11	0	0	0	0	0	0	0	0
12/31/2024 18:42	62106	ELAN_T1	41	109	68	0.18	0.31	0.13	-0.03	-0.04	0	0	0	0	0	0
12/31/2024 18:42	62103	ELAN_T1	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
12/31/2024 18:42	10101	ALLE_T3	3	5	2	3.93	4.5	0.57	0	0	0	0	0	0	0	0
12/31/2024 18:42	10105	ALLE_T3	8	8	0	0.63	0	-0.63	0	0	0	0	0	0	0	0
12/31/2024 18:42	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 18:42	14601	SWHI_T1	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
12/31/2024 18:42	10107	ALLE_T3	8	1	-7	0.36	0	-0.36	0	0	0	0	0	0	0	0
12/31/2024 18:42	62101	ELAN_T1	12	150	138	0.15	0.2	0.05	0	0	0	0	0	0	0	0
12/31/2024 18:42	10205	ALLE_T3	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
12/31/2024 18:42	60801	BUCK_T1	4	27	23	0.1	0.22	0.12	-0.19	-0.21	0	0	0	0	0	0
12/31/2024 18:42	44301	BEAV_T2	2	2	0	1.2	0.9	-0.3	-1.53	-1.57	1	1	0	600	600	0
12/31/2024 18:42	63501	HEID_TBK1-2	1	16	15	1.2	0.23	-0.97	0.58	0.43	0	0	0	0	0	0
12/31/2024 18:42	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/31/2024 18:42	62104	ELAN_T1	10	115	105	0.1	0.19	0.09	0	0	0	0	0	0	0	0
12/31/2024 18:42	62102	ELAN_T1	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
12/31/2024 18:43	58402	MORO_T1	0	0	0	0	0	0	0.3	0.26	2	2	0	1200	1200	0
12/31/2024 18:43	24206	PROV_T4	1	1	0	5.2	0	-5.2	0	0	0	0	0	0	0	0
12/31/2024 18:43	61303	EARL_T1	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
12/31/2024 18:43	24202	PROV_T4	0	8	8	0	0.13	0.13	-0.89	-0.88	1	1	0	1200	1200	0
12/31/2024 18:43	40701	FFLD_T1	31	62	31	0.4	0.44	0.04	0	0	0	0	0	0	0	0
12/31/2024 18:43	65502	MOJO_T2	256	319	63	0.19	0.46	0.27	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/31/2024 18:43	44301	BEAV_T2	2	2	0	1.2	0.9	-0.3	-1.53	-1.57	1	1	0	600	600	0
12/31/2024 18:43	60101	COCA_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
12/31/2024 18:43	53501	EVIL_T2	2	1	-1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
12/31/2024 18:43	40703	FFLD_T1	4	4	0	0.38	0.6	0.22	0	0	0	0	0	0	0	0
12/31/2024 18:43	45302	WBER_T2	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
12/31/2024 18:43	65503	MOJO_T2	30	227	197	0.12	0.24	0.12	-0.44	-0.45	0	0	0	0	0	0
12/31/2024 18:43	23502	GEOR_T1	0	0	0	0	0	0	-0.42	-0.3	0	0	0	0	0	0
12/31/2024 18:43	45303	WBER_T2	9	9	0	1.36	1.54	0.18	0	0	0	0	0	0	0	0
12/31/2024 18:43	40702	FFLD_T1	145	186	41	0.36	0.55	0.19	0	0	0	0	0	0	0	0
12/31/2024 18:43	22602	KIMB_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
12/31/2024 18:44	40702	FFLD_T1	145	186	41	0.36	0.55	0.19	-1.28	-1.34	1	1	0	1200	1200	0
12/31/2024 18:44	60102	COCA_T1	0	0	0	0	0	0	-1.2	0.11	1	1	0	600	600	0
12/31/2024 18:44	44902	SCOT_T2	0	10	10	0	0.14	0.14	-0.94	-0.97	0	0	0	0	0	0
12/31/2024 18:44	16102	BING_T2	1	1	0	4.9	4.1	-0.8	0	0	0	0	0	0	0	0
12/31/2024 18:44	15603	NSTR_T2	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
12/31/2024 18:44	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
12/31/2024 18:44	15601	NSTR_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
12/31/2024 18:44	44901	SCOT_T2	3	6	3	0.1	0.22	0.12	0	0	0	0	0	0	0	0
12/31/2024 18:44	14603	SWHI_T1	0	0	0	0	0	0	-1.65	-1.66	2	2	0	1200	1200	0
12/31/2024 18:44	40703	FFLD_T1	4	4	0	0.38	0.6	0.22	0	0	0	0	0	0	0	0
12/31/2024 18:44	13704	SOHN_T2	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
12/31/2024 18:44	60101	COCA_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
12/31/2024 18:44	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 18:44	40701	FFLD_T1	31	62	31	0.4	0.44	0.04	0	0	0	0	0	0	0	0
12/31/2024 18:45	44601	SALE_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
12/31/2024 18:45	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
12/31/2024 18:45	60101	COCA_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
12/31/2024 18:45	42701	AUGU_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
12/31/2024 18:45	64305	LINC_T1	0	1	1	0	0.1	0.1	-0.61	-0.7	0	0	0	0	0	0
12/31/2024 18:45	46001	BERW_T1	0	0	0	0	0	0	0.55	0.66	0	0	0	0	0	0
12/31/2024 18:46	44601	SALE_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
12/31/2024 18:46	42501	ALTA_T2	0	0	0	0	0	0	-0.02	-0.03	1	1	0	600	600	0
12/31/2024 18:46	10805	CHHI_T2	1	1	0	7.6	7.4	-0.2	-2.43	-2.43	2	2	0	1200	1200	0
12/31/2024 18:46	60101	COCA_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
12/31/2024 18:46	55501	HERS_T1	0	39	39	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:46	55503	HERS_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
12/31/2024 18:46	64101	REFR_T1	0	0	0	0	0	0	-0.54	-0.45	0	0	0	0	0	0
12/31/2024 18:47	63501	HEID_TBK1-2	1	37	36	0.9	0.33	-0.57	0.58	0.43	0	0	0	0	0	0
12/31/2024 18:47	65502	MOJO_T2	288	340	52	0.28	0.52	0.24	-1.2	-1.22	0	0	0	0	0	0
12/31/2024 18:47	62101	ELAN_T1	35	186	151	0.15	0.22	0.07	0	0	0	0	0	0	0	0
12/31/2024 18:47	62106	ELAN_T1	67	121	54	0.2	0.34	0.14	0	0	0	0	0	0	0	0
12/31/2024 18:47	42701	AUGU_T1	0	1	1	0	0.6	0.6	0	0	2	2	0	1800	1800	0
12/31/2024 18:47	66501	SMAN_T2	2	7	5	0.1	0.17	0.07	0	0	0	0	0	0	0	0
12/31/2024 18:47	62104	ELAN_T1	31	125	94	0.13	0.19	0.06	0.8	0.84	2	2	0	1500	1500	0
12/31/2024 18:47	49803	UNIV_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
12/31/2024 18:47	60801	BUCK_T1	14	38	24	0.13	0.27	0.14	0	0	0	0	0	0	0	0
12/31/2024 18:47	62103	ELAN_T1	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/31/2024 18:47	65503	MOJO_T2	103	274	171	0.17	0.29	0.12	0	0	0	0	0	0	0	0
12/31/2024 18:47	61001	DONV_T1	0	0	0	0	0	0	-0.03	-0.1	0	0	0	0	0	0
12/31/2024 18:47	66502	SMAN_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
12/31/2024 18:47	66505	SMAN_T2	3	3	0	1.47	1.23	-0.24	0	0	0	0	0	0	0	0
12/31/2024 18:47	62105	ELAN_T1	190	304	114	0.18	0.33	0.15	0	0	0	0	0	0	0	0
12/31/2024 18:47	60803	BUCK_T1	9	19	10	0.19	0.27	0.08	-0.54	-0.55	1	1	0	600	600	0
12/31/2024 18:47	66504	SMAN_T2	0	0	0	0	0	0	-0.48	-0.55	0	0	0	0	0	0
12/31/2024 18:47	62102	ELAN_T1	2	5	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
12/31/2024 18:47	49804	UNIV_T1	0	1	1	0	0	0	0.37	0.4	0	0	0	0	0	0
12/31/2024 18:47	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 18:48	60904	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:48	53501	EVIL_T2	1	1	0	0.2	0.5	0.3	-0.71	-0.73	0	0	0	0	0	0
12/31/2024 18:48	61502	EPET_T1	40	80	40	0.15	0.24	0.09	0	0	0	0	0	0	0	0
12/31/2024 18:48	62105	ELAN_T1	190	304	114	0.18	0.33	0.15	0.47	0.44	0	0	0	0	0	0
12/31/2024 18:48	60902	DONG_T2	2	4	2	0.1	0.2	0.1	0.52	0.5	0	0	0	0	0	0
12/31/2024 18:48	62104	ELAN_T1	31	125	94	0.13	0.19	0.06	0	0	0	0	0	0	0	0
12/31/2024 18:48	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 18:48	61503	EPET_T1	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
12/31/2024 18:48	62101	ELAN_T1	35	186	151	0.15	0.22	0.07	0	0	0	0	0	0	0	0
12/31/2024 18:48	63804	HEMP_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
12/31/2024 18:48	62106	ELAN_T1	67	121	54	0.2	0.34	0.14	0	0	0	0	0	0	0	0
12/31/2024 18:48	64902	MILL_T2	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
12/31/2024 18:48	63801	HEMP_T1	0	0	0	0	0	0	0.08	-0.42	0	0	0	0	0	0
12/31/2024 18:48	62102	ELAN_T1	2	5	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
12/31/2024 18:48	44905	SCOT_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
12/31/2024 18:48	62103	ELAN_T1	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/31/2024 18:49	58101	NEIL_T1	1	23	22	0.1	0.12	0.02	0	0	0	0	0	0	0	0
12/31/2024 18:49	46506	LOHA_T1	4	4	0	3.08	3.18	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:49	65202	PRIN_T1	1	9	8	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
12/31/2024 18:49	65203	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:49	63602	LETO_T1	93	47	-46	0.18	0.13	-0.05	-0.55	-0.55	0	0	0	0	0	0
12/31/2024 18:49	65205	PRIN_T1	1	6	5	1.7	0.4	-1.3	0	0	0	0	0	0	0	0
12/31/2024 18:49	40801	EXCH_T2	3	2	-1	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
12/31/2024 18:49	54504	ENOL_T2	0	0	0	0	0	0	-1.07	-1.1	1	1	0	600	600	0
12/31/2024 18:49	58102	NEKI_T1	1	2	1	1.7	1	-0.7	-0.12	-0.08	0	0	0	0	0	0
12/31/2024 18:49	64802	MONE_T2	81	191	110	0.21	0.22	0.01	0	0	0	0	0	0	0	0
12/31/2024 18:49	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
12/31/2024 18:49	40802	EXCH_T2	3	0	-3	0.13	0	-0.13	-0.28	-0.3	0	0	0	0	0	0
12/31/2024 18:49	63601	LETO_T1	7	7	0	1	1	0	0	0	0	0	0	0	0	0
12/31/2024 18:49	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
12/31/2024 18:49	64801	MONE_T2	19	34	15	0.21	0.24	0.03	0	0	0	0	0	0	0	0
12/31/2024 18:49	54502	ENOL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
12/31/2024 18:50	41901	REED_T1	8	8	0	0.55	0.73	0.18	0	0	0	0	0	0	0	0
12/31/2024 18:50	64201	KINZ_T1	9	2	-7	0.22	0.1	-0.12	0	0	0	0	0	0	0	0
12/31/2024 18:50	64201	KINZ_T1	7	1	-6	0.3	0.1	-0.2	0.48	0.34	1	1	0	300	300	0
12/31/2024 18:50	61701	ELIZ_T1	1	2	1	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
12/31/2024 18:50	64204	KINZ_T1	10	1	-9	0.25	1	0.75	0	0	0	0	0	0	0	0
12/31/2024 18:50	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
12/31/2024 18:50	41902	REED_T1	0	0	0	0	0	0	1.06	1.08	0	0	0	0	0	0
12/31/2024 18:50	10801	CHHI_T1	0	0	0	0	0	0	-1.51	-1.55	2	2	0	1500	1500	0
12/31/2024 18:50	42802	SELI_T1	0	0	0	0	0	0	-1.55	-1.57	0	0	0	0	0	0
12/31/2024 18:50	63501	HEID_TBK1-2	1	37	36	0.9	0.33	-0.57	0.58	0.43	0	0	0	0	0	0
12/31/2024 18:50	61703	ELIZ_T1	0	0	0	0	0	0	-1.92	-1.92	1	1	0	900	900	0
12/31/2024 18:50	65501	MOJO_T1	0	0	0	0	0	0	-0.6	-0.59	1	1	0	900	900	0
12/31/2024 18:50	64702	LITI_T2	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
12/31/2024 18:50	67106	SPRI_T2	0	0	0	0	0	0	-1.97	-1.99	2	2	0	1500	1500	0
12/31/2024 18:51	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 18:51	63501	HEID_TBK1-2	1	37	36	0.9	0.33	-0.57	0.58	0.43	0	0	0	0	0	0
12/31/2024 18:51	44905	SCOT_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
12/31/2024 18:51	46206	DANV_T2	0	0	0	0	0	0	1.45	1.47	2	2	0	2100	2100	0
12/31/2024 18:51	40101	HUNT_T2	4	3	-1	0.53	0.2	-0.33	-1.17	-1.19	0	0	0	0	0	0
12/31/2024 18:51	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 18:52	44902	SCOT_T2	1	51	50	0.1	0.12	0.02	-0.97	-0.98	0	0	0	0	0	0
12/31/2024 18:52	62105	ELAN_T1	190	304	114	0.18	0.33	0.15	0	0	0	0	0	0	0	0
12/31/2024 18:52	62106	ELAN_T1	67	121	54	0.2	0.34	0.14	0	0	0	0	0	0	0	0
12/31/2024 18:52	63501	HEID_TBK1-2	1	37	36	0.9	0.33	-0.57	0.43	0.4	0	0	0	0	0	0
12/31/2024 18:52	64202	KINZ_T1	9	2	-7	0.22	0.1	-0.12	0	0	0	0	0	0	0	0
12/31/2024 18:52	20603	GRWO_T2	7	13	6	0.14	0.24	0.1	0.42	0.42	0	0	0	0	0	0
12/31/2024 18:52	46001	BERW_T1	0	0	0	0	0	0	0.66	0.55	0	0	0	0	0	0
12/31/2024 18:52	62101	ELAN_T1	35	186	151	0.15	0.22	0.07	0	0	0	0	0	0	0	0
12/31/2024 18:52	62104	ELAN_T1	31	125	94	0.13	0.19	0.06	0.84	0.92	2	2	0	1500	1500	0
12/31/2024 18:52	44901	SCOT_T2	4	6	2	0.2	0.25	0.05	0	0	0	0	0	0	0	0
12/31/2024 18:52	62103	ELAN_T1	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
12/31/2024 18:52	62102	ELAN_T1	2	5	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
12/31/2024 18:52	64201	KINZ_T1	7	1	-6	0.3	0.1	-0.2	0.68	0.61	2	2	0	600	600	0
12/31/2024 18:52	64204	KINZ_T1	10	1	-9	0.25	1	0.75	0	0	0	0	0	0	0	0
12/31/2024 18:53	54502	ENOL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
12/31/2024 18:53	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 18:53	54504	ENOL_T2	0	0	0	0	0	0	-1.1	-1.11	1	1	0	600	600	0
12/31/2024 18:53	44902	SCOT_T2	1	51	50	0.1	0.12	0.02	0	0	0	0	0	0	0	0
12/31/2024 18:53	44901	SCOT_T2	4	6	2	0.2	0.25	0.05	-0.73	-0.75	0	0	0	0	0	0
12/31/2024 18:53	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
12/31/2024 18:53	40601	PIGR_T1	11	101	90	0.14	0.22	0.08	-0.12	-0.19	0	0	0	0	0	0
12/31/2024 18:53	40602	PIGR_T1	1	1	0	1.9	1.5	-0.4	-0.01	0	0	0	0	0	0	0
12/31/2024 18:53	60201	ATGL_T2	15	37	22	0.21	0.21	0	-0.21	-0.23	0	0	0	0	0	0
12/31/2024 18:54	40602	PIGR_T1	1	1	0	1.9	1.5	-0.4	-0.01	0	0	0	0	0	0	0
12/31/2024 18:54	61304	EARL_T1	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
12/31/2024 18:54	64204	KINZ_T1	10	1	-9	0.25	1	0.75	0	0	0	0	0	0	0	0
12/31/2024 18:54	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 18:54	64202	KINZ_T1	9	2	-7	0.22	0.1	-0.12	0	0	0	0	0	0	0	0
12/31/2024 18:54	45802	HEGI_T2	12	39	27	0.64	0.58	-0.06	0	0	0	0	0	0	0	0
12/31/2024 18:54	60201	ATGL_T2	15	37	22	0.21	0.21	0	-0.21	-0.23	0	0	0	0	0	0
12/31/2024 18:54	64201	KINZ_T1	7	1	-6	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/31/2024 18:54	40601	PIGR_T1	11	101	90	0.14	0.22	0.08	0	0	0	0	0	0	0	0
12/31/2024 18:54	67106	SPRI_T2	0	0	0	0	0	0	-1.99	-1.99	2	2	0	1500	1500	0
12/31/2024 18:54	41301	FISH_T1	1	7	6	2.9	0.51	-2.39	-0.43	-0.43	0	0	0	0	0	0
12/31/2024 18:55	46506	LOHA_T1	4	4	0	3.08	3.18	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:55	64801	MONE_T2	19	34	15	0.21	0.24	0.03	0	0	0	0	0	0	0	0
12/31/2024 18:55	64802	MONE_T2	81	191	110	0.21	0.22	0.01	0	0	0	0	0	0	0	0
12/31/2024 18:55	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
12/31/2024 18:55	41802	GOCI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:55	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
12/31/2024 18:55	67401	WAKE_T2	49	95	46	0.24	0.26	0.02	0	0	0	0	0	0	0	0
12/31/2024 18:55	41801	GOCI_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 18:55	63501	HEID_TBK1-2	1	37	36	0.9	0.33	-0.57	0.43	0.4	0	0	0	0	0	0
12/31/2024 18:56	60801	BUCK_T1	14	38	24	0.13	0.27	0.14	0	0	0	0	0	0	0	0
12/31/2024 18:56	40601	PIGR_T1	11	101	90	0.14	0.22	0.08	0	0	0	0	0	0	0	0
12/31/2024 18:56	60803	BUCK_T1	9	19	10	0.19	0.27	0.08	-0.55	-0.55	1	1	0	600	600	0
12/31/2024 18:56	40602	PIGR_T1	1	1	0	1.9	1.5	-0.4	0	0	0	0	0	0	0	0
12/31/2024 18:57	60803	BUCK_T1	9	19	10	0.19	0.27	0.08	-0.55	-0.55	1	1	0	600	600	0
12/31/2024 18:57	64201	KINZ_T1	7	1	-6	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/31/2024 18:57	27501	WEIS_T1	0	0	0	0	0	0	-1.26	-1.26	1	1	0	1200	1200	0
12/31/2024 18:57	64802	MONE_T2	81	191	110	0.21	0.22	0.01	0	0	0	0	0	0	0	0
12/31/2024 18:57	64801	MONE_T2	19	34	15	0.21	0.24	0.03	0	0	0	0	0	0	0	0
12/31/2024 18:57	64204	KINZ_T1	10	1	-9	0.25	1	0.75	0	0	0	0	0	0	0	0
12/31/2024 18:57	60801	BUCK_T1	14	38	24	0.13	0.27	0.14	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
12/31/2024 18:57	64202	KINZ_T1	9	2	-7	0.22	0.1	-0.12	0.28	0.28	0	0	0	0	0	0
12/31/2024 18:58	64202	KINZ_T1	9	2	-7	0.22	0.1	-0.12	0	0	0	0	0	0	0	0
12/31/2024 18:58	64201	KINZ_T1	7	1	-6	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
12/31/2024 18:58	64204	KINZ_T1	10	1	-9	0.25	1	0.75	0	0	0	0	0	0	0	0
12/31/2024 18:58	10801	CHHI_T1	0	0	0	0	0	0	-1.55	-1.54	2	2	0	1500	1500	0
12/31/2024 18:59	64801	MONE_T2	19	34	15	0.21	0.24	0.03	0	0	0	0	0	0	0	0
12/31/2024 18:59	64802	MONE_T2	81	191	110	0.21	0.22	0.01	-0.07	-0.11	0	0	0	0	0	0
12/31/2024 18:59	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
12/31/2024 18:59	67401	WAKE_T2	49	95	46	0.24	0.26	0.02	0	0	0	0	0	0	0	0
12/31/2024 19:00	44301	BEAV_T2	2	2	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
12/31/2024 19:01	64904	MILL_T1	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0	0
12/31/2024 19:01	64901	MILL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 19:02	61304	EARL_T1	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
12/31/2024 19:03	60801	BUCK_T1	27	40	13	0.22	0.27	0.05	0	0	0	0	0	0	0	0
12/31/2024 19:03	64203	KINZ_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
12/31/2024 19:03	64204	KINZ_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
12/31/2024 19:03	64201	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
12/31/2024 19:03	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
12/31/2024 19:03	60803	BUCK_T1	11	21	10	0.24	0.31	0.07	-0.55	-0.55	1	1	0	600	600	0
12/31/2024 19:04	53903	HALI_T2	2	15	13	1.35	0.31	-1.04	0	0	0	0	0	0	0	0
12/31/2024 19:04	53901	HALI_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
12/31/2024 19:04	53902	HALI_T2	1	1	0	5.8	6.1	0.3	-0.25	-0.24	0	0	0	0	0	0
12/31/2024 19:18	14801	TREI_T2	0	0	0	0	0	0	0.49	0.52	0	0	0	0	0	0
12/31/2024 19:20	65207	PRIN_T4	19	59	40	0.54	0.22	-0.32	0	0	0	0	0	0	0	0
12/31/2024 19:20	65201	PRIN_T4	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
12/31/2024 19:20	65206	PRIN_T4	13	73	60	0.14	0.16	0.02	0	0	0	0	0	0	0	0
12/31/2024 19:27	40601	PIGR_T1	101	185	84	0.22	0.32	0.1	0	0	0	0	0	0	0	0
12/31/2024 19:27	40602	PIGR_T1	1	0	-1	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
12/31/2024 20:03	61304	EARL_T1	0	0	0	0	0	0	-0.32	-0.37	0	0	0	0	0	0
12/31/2024 20:04	55507	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2024 20:04	55501	HERS_T1	52	52	0	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
12/31/2024 20:12	43801	SWIL_T1	74	83	9	0.3	0.34	0.04	0	0	0	0	0	0	0	0
12/31/2024 20:12	43802	SWIL_T1	0	1	1	0	0.1	0.1	-0.2	-0.23	1	1	0	600	600	0
12/31/2024 22:19	60201	ATGL_T2	34	8	-26	0.17	0.25	0.08	0.42	0.4	0	0	0	0	0	0
12/31/2024 23:38	61801	EELI_T2	0	1	1	0	0.1	0.1	-0.5	-0.45	0	0	0	0	0	0
1/1/2025 0:56	23403	HONE_T1	0	0	0	0	0	0	-0.87	-0.81	0	0	0	0	0	0
1/1/2025 8:09	66505	SMAN_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
1/1/2025 8:09	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/1/2025 8:09	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 8:16	64203	KINZ_T1	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
1/1/2025 8:16	64204	KINZ_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/1/2025 8:35	13503	MCMI_T2	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
1/1/2025 8:38	64904	MILL_T1	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
1/1/2025 8:39	57205	ROSS_T1	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
1/1/2025 8:40	52502	PROG_T2	0	0	0	0	0	0	0.36	0.41	0	0	0	0	0	0
1/1/2025 8:50	64902	MILL_T2	0	0	0	0	0	0	-0.79	-0.75	1	1	0	900	900	0
1/1/2025 8:54	65802	RTWN_T2	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
1/1/2025 8:54	65803	RTWN_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
1/1/2025 8:55	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/1/2025 8:55	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 8:56	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/1/2025 8:56	67002	STHI_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
1/1/2025 8:57	67001	STHI_T2	1	1	0	0.4	0.4	0	0.08	0.08	0	0	0	0	0	0
1/1/2025 8:57	67002	STHI_T2	0	0	0	0	0	0	2.08	2.04	0	0	0	0	0	0
1/1/2025 8:58	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/1/2025 8:58	67002	STHI_T2	0	0	0	0	0	0	1.04	1.02	0	0	0	0	0	0
1/1/2025 8:59	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/1/2025 8:59	67002	STHI_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
1/1/2025 9:00	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.8	1	1	0	900	900	0
1/1/2025 9:00	14604	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
1/1/2025 9:00	40504	CRES_T1	81	36	-45	0.32	0.18	-0.14	0	0	0	0	0	0	0	0
1/1/2025 9:00	26704	HEMI_T2	0	0	0	0	0	0	-0.87	-0.85	1	1	0	1200	1200	0
1/1/2025 9:06	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.8	1	1	0	900	900	0
1/1/2025 9:08	67503	WEWI_T2	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
1/1/2025 9:09	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/1/2025 9:09	67002	STHI_T2	0	0	0	0	0	0	0.51	0.54	0	0	0	0	0	0
1/1/2025 9:11	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/1/2025 9:11	67002	STHI_T2	0	0	0	0	0	0	0.51	0.54	0	0	0	0	0	0
1/1/2025 9:11	57205	ROSS_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
1/1/2025 9:12	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/1/2025 9:12	67002	STHI_T2	0	0	0	0	0	0	1.02	1.08	0	0	0	0	0	0
1/1/2025 9:14	29402	BELT_T1	130	123	-7	0.97	1.06	0.09	0	0	0	0	0	0	0	0
1/1/2025 9:14	67002	STHI_T2	0	0	0	0	0	0	1.02	1.08	0	0	0	0	0	0
1/1/2025 9:14	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/1/2025 9:14	29401	BELT_T1	18	0	-18	0.14	0	-0.14	0	0	1	1	0	900	900	0
1/1/2025 9:21	55002	NEWP_T1	4	6	2	0.63	0.42	-0.21	-0.22	-0.22	0	0	0	0	0	0
1/1/2025 9:22	52502	PROG_T2	0	0	0	0	0	0	-0.53	0.37	1	0	-1	900	0	-900
1/1/2025 9:23	52502	PROG_T2	0	0	0	0	0	0	-1.06	0.74	2	0	-2	1800	0	-1800
1/1/2025 9:25	65802	RTWN_T2	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
1/1/2025 9:25	65803	RTWN_T2	3	7	4	0.1	0.27	0.17	0	0	0	0	0	0	0	0
1/1/2025 9:26	65803	RTWN_T2	3	7	4	0.1	0.27	0.17	0	0	0	0	0	0	0	0
1/1/2025 9:26	65802	RTWN_T2	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
1/1/2025 9:27	65802	RTWN_T2	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
1/1/2025 9:27	65803	RTWN_T2	3	7	4	0.1	0.27	0.17	0	0	0	0	0	0	0	0
1/1/2025 9:28	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/1/2025 9:28	29402	BELT_T1	117	122	5	1	1.02	0.02	0	0	0	0	0	0	0	0
1/1/2025 9:29	67402	WAKE_T2	0	1	1	0	0.2	0.2	0.21	0.22	0	0	0	0	0	0
1/1/2025 9:32	52404	GRPA_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
1/1/2025 9:32	52402	GRPA_T2	3	4	1	0.43	0.53	0.1	0	0	0	0	0	0	0	0
1/1/2025 9:32	11507	TREE_T2	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
1/1/2025 9:33	52402	GRPA_T2	3	4	1	0.43	0.53	0.1	0	0	0	0	0	0	0	0
1/1/2025 9:33	52404	GRPA_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
1/1/2025 9:34	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 9:34	10101	ALLE_T3	2	2	0	4.5	5.6	1.1	0	0	0	0	0	0	0	0
1/1/2025 9:36	55001	NEWP_T1	0	0	0	0	0	0	-0.31	-0.26	0	0	0	0	0	0
1/1/2025 9:36	55002	NEWP_T1	6	5	-1	0.38	0.48	0.1	0	0	0	0	0	0	0	0
1/1/2025 9:37	55002	NEWP_T1	6	5	-1	0.38	0.48	0.1	0	0	0	0	0	0	0	0
1/1/2025 9:37	65003	NEFF_T2	4	4	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
1/1/2025 9:37	65001	NEFF_T2	15	53	38	0.13	0.14	0.01	-0.19	-0.16	0	0	0	0	0	0
1/1/2025 9:37	55001	NEWP_T1	0	0	0	0	0	0	-0.31	-0.26	0	0	0	0	0	0
1/1/2025 9:38	66505	SMAN_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/1/2025 9:38	66502	SMAN_T2	0	0	0	0	0	0	-0.11	0	0	0	0	0	0	0
1/1/2025 9:39	65001	NEFF_T2	15	53	38	0.13	0.14	0.01	-0.38	-0.32	0	0	0	0	0	0
1/1/2025 9:39	65003	NEFF_T2	4	4	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
1/1/2025 9:39	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 9:39	66505	SMAN_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/1/2025 9:39	66502	SMAN_T2	0	0	0	0	0	0	-0.11	0	0	0	0	0	0	0
1/1/2025 9:41	66502	SMAN_T2	0	0	0	0	0	0	-0.23	0	0	0	0	0	0	0
1/1/2025 9:41	65001	NEFF_T2	15	53	38	0.13	0.14	0.01	0	0	0	0	0	0	0	0
1/1/2025 9:41	66505	SMAN_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/1/2025 9:41	65005	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 9:41	65003	NEFF_T2	4	4	0	0.15	0.2	0.05	-1.76	-1.8	2	2	0	1800	1800	0
1/1/2025 9:42	65001	NEFF_T2	15	53	38	0.13	0.14	0.01	0	0	0	0	0	0	0	0
1/1/2025 9:42	65003	NEFF_T2	4	4	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
1/1/2025 9:42	65004	NEFF_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
1/1/2025 9:43	66502	SMAN_T2	0	0	0	0	0	0	-0.34	-0.01	0	0	0	0	0	0
1/1/2025 9:43	66505	SMAN_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/1/2025 9:44	67401	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 9:44	67402	WAKE_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/1/2025 9:44	66502	SMAN_T2	0	0	0	0	0	0	-0.23	0	0	0	0	0	0	0
1/1/2025 9:44	66505	SMAN_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/1/2025 9:45	64203	KINZ_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
1/1/2025 9:45	40602	PIGR_T1	1	1	0	2.2	2.3	0.1	-0.01	0.02	0	0	0	0	0	0
1/1/2025 9:45	64204	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/1/2025 9:46	10103	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 9:46	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 9:46	10101	ALLE_T3	2	2	0	5.6	6.45	0.85	0	0	0	0	0	0	0	0
1/1/2025 9:46	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 9:52	58101	NEKI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 9:52	10602	BLGL_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
1/1/2025 9:52	58102	NEKI_T1	1	1	0	1.4	1.3	-0.1	-0.21	-0.19	0	0	0	0	0	0
1/1/2025 9:53	58402	MORO_T1	0	0	0	0	0	0	-0.22	-0.2	2	2	0	1500	1500	0
1/1/2025 9:54	64101	REFR_T1	0	0	0	0	0	0	0.05	0.09	0	0	0	0	0	0
1/1/2025 9:55	66505	SMAN_T2	1	1	0	0.2	0.3	0.1	-0.11	-0.1	1	1	0	900	900	0
1/1/2025 9:55	54601	SUMM_T2	9	9	0	0.4	0.39	-0.01	1.86	1.84	2	2	0	2100	2100	0
1/1/2025 9:55	54603	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 9:56	17002	RIRO_T2	4	1	-3	0.1	0.3	0.2	0.32	0.3	0	0	0	0	0	0
1/1/2025 9:56	14801	TREI_T2	0	0	0	0	0	0	0.44	0.52	0	0	0	0	0	0
1/1/2025 9:57	66505	SMAN_T2	1	1	0	0.2	0.3	0.1	-0.11	-0.1	1	1	0	900	900	0
1/1/2025 10:02	40602	PIGR_T1	1	1	0	2.3	2.4	0.1	0.02	-0.01	0	0	0	0	0	0
1/1/2025 10:06	64702	LITI_T2	0	0	0	0	0	0	-0.85	-0.83	0	0	0	0	0	0
1/1/2025 10:07	64802	MONE_T2	1	1	0	0.6	0.2	-0.4	0.36	0.34	0	0	0	0	0	0
1/1/2025 10:08	64802	MONE_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
1/1/2025 10:08	57201	ROSS_T1	0	0	0	0	0	0	-1.16	-1.16	0	0	0	0	0	0
1/1/2025 10:08	52502	PROG_T2	0	0	0	0	0	0	-0.6	0.37	1	0	-1	900	0	-900
1/1/2025 10:13	57201	ROSS_T1	0	0	0	0	0	0	-1.16	-1.16	0	0	0	0	0	0
1/1/2025 10:15	60101	COCA_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
1/1/2025 10:16	65207	PRIN_T4	9	3	-6	0.29	0.9	0.61	0	0	1	1	0	1200	1200	0
1/1/2025 10:16	65206	PRIN_T4	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/1/2025 10:17	17802	GILB_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
1/1/2025 10:21	64702	LITI_T2	0	0	0	0	0	0	-0.83	-0.9	0	0	0	0	0	0
1/1/2025 10:22	63801	HEMP_T1	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
1/1/2025 10:22	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
1/1/2025 10:24	40303	TAMA_T3	71	98	27	0.26	0.26	0	0	0	0	0	0	0	0	0
1/1/2025 10:24	40301	TAMA_T3	19	21	2	0.58	0.53	-0.05	1.24	1.25	0	0	0	0	0	0
1/1/2025 10:24	41901	REED_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
1/1/2025 10:24	54601	SUMM_T2	5	6	1	0.42	0.4	-0.02	-1.85	-1.81	2	2	0	2100	2100	0
1/1/2025 10:24	41902	REED_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 10:24	40302	TAMA_T3	51	51	0	0.64	0.65	0.01	0	0	0	0	0	0	0	0
1/1/2025 10:24	41903	REED_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
1/1/2025 10:25	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 10:25	65206	PRIN_T4	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/1/2025 10:25	65207	PRIN_T4	9	3	-6	0.29	0.9	0.61	0	0	0	0	0	0	0	0
1/1/2025 10:26	65202	PRIN_T1	4	5	1	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
1/1/2025 10:26	65203	PRIN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/1/2025 10:26	65205	PRIN_T1	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
1/1/2025 10:28	44301	BEAV_T2	1	1	0	2.4	2.6	0.2	-0.82	-0.8	1	1	0	600	600	0
1/1/2025 10:30	13704	SCHN_T2	0	0	0	0	0	0	-0.4	-0.36	0	0	0	0	0	0
1/1/2025 10:40	66505	SMAN_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
1/1/2025 10:40	66504	SMAN_T2	0	0	0	0	0	0	-1.14	-1.11	0	0	0	0	0	0
1/1/2025 10:43	66504	SMAN_T2	0	0	0	0	0	0	-0.57	-0.55	0	0	0	0	0	0
1/1/2025 10:43	66505	SMAN_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
1/1/2025 10:44	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/1/2025 10:44	42501	ALTA_T2	0	0	0	0	0	0	-0.02	-0.01	1	1	0	600	600	0
1/1/2025 10:46	61703	ELIZ_T1	0	0	0	0	0	0	-1.78	-1.87	1	1	0	900	900	0
1/1/2025 10:46	61305	EARL_T1	0	0	0	0	0	0	0.39	0.44	0	0	0	0	0	0
1/1/2025 10:46	61701	ELIZ_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
1/1/2025 10:49	40301	TAMA_T3	18	26	8	0.51	0.49	-0.02	0	0	0	0	0	0	0	0
1/1/2025 10:49	40302	TAMA_T3	48	52	4	0.66	0.66	0	0	0	0	0	0	0	0	0
1/1/2025 10:49	60904	DONG_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/1/2025 10:49	60901	DONG_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/1/2025 10:49	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 10:49	40303	TAMA_T3	87	102	15	0.27	0.26	-0.01	0.86	0.92	0	0	0	0	0	0
1/1/2025 10:49	60902	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/1/2025 10:50	65502	MOJO_T2	0	0	0	0	0	0	-0.97	-1.04	0	0	0	0	0	0
1/1/2025 10:51	65502	MOJO_T2	0	0	0	0	0	0	-0.97	-1.04	0	0	0	0	0	0
1/1/2025 10:53	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 10:55	65503	MOJO_T2	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
1/1/2025 10:55	64302	LINC_T2	0	0	0	0	0	0	0.51	0.44	0	0	0	0	0	0
1/1/2025 10:55	64304	LINC_T2	1	0	-1	3.8	0	-3.8	0	0	0	0	0	0	0	0
1/1/2025 10:56	66901	SHIL_T2	1	1	0	0.2	0.3	0.1	-0.48	-0.47	0	0	0	0	0	0
1/1/2025 11:02	10801	CHHI_T1	0	0	0	0	0	0	-2.19	-2.19	3	3	0	2100	2100	0
1/1/2025 11:05	58401	MORO_T1	0	0	0	0	0	0	-1	-0.98	1	1	0	600	600	0
1/1/2025 11:08	58401	MORO_T1	0	0	0	0	0	0	-0.98	-0.99	1	1	0	600	600	0
1/1/2025 11:11	64305	LINC_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
1/1/2025 11:12	14201	EALL_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
1/1/2025 11:12	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
1/1/2025 11:12	14207	EALL_T1	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
1/1/2025 11:12	67401	WAKE_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
1/1/2025 11:15	60904	DONG_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/1/2025 11:15	60901	DONG_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/1/2025 11:15	60902	DONG_T2	0	0	0	0	0	0	0.72	0.78	0	0	0	0	0	0
1/1/2025 11:26	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
1/1/2025 11:27	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
1/1/2025 11:28	60801	BUCK_T1	13	6	-7	0.18	0.13	-0.05	-0.21	-0.2	0	0	0	0	0	0
1/1/2025 11:28	54603	SUMM_T2	0	0	0	0	0	0	-0.44	-0.38	1	1	0	900	900	0
1/1/2025 11:28	60803	BUCK_T1	15	14	-1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
1/1/2025 11:28	54601	SUMM_T2	3	6	3	0.57	0.67	0.1	0	0	0	0	0	0	0	0
1/1/2025 11:28	46205	DANV_T2	0	0	0	0	0	0	-0.79	-0.81	1	1	0	1200	1200	0
1/1/2025 11:30	60801	BUCK_T1	6	3	-3	0.13	0.13	0	-0.21	-0.2	0	0	0	0	0	0
1/1/2025 11:30	47203	FAXO_T2	0	1	1	0	0.1	0.1	-1.71	-1.73	1	1	0	1200	1200	0
1/1/2025 11:30	60803	BUCK_T1	14	12	-2	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
1/1/2025 11:31	58803	COCO_T1	1	1	0	2.6	2.7	0.1	-0.18	-0.19	0	0	0	0	0	0
1/1/2025 11:32	60803	BUCK_T1	14	12	-2	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
1/1/2025 11:32	60801	BUCK_T1	6	3	-3	0.13	0.13	0	-0.21	-0.2	0	0	0	0	0	0
1/1/2025 11:32	52001	LING_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
1/1/2025 11:33	52004	LING_T2	2	2	0	5.7	5.6	-0.1	0.31	0.26	0	0	0	0	0	0
1/1/2025 11:33	52002	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/1/2025 11:35	63501	HEID_TBK1-2	0	0	0	0	0	0	0.67	0.69	0	0	0	0	0	0
1/1/2025 11:35	52004	LING_T2	2	2	0	5.7	5.6	-0.1	0.62	0.52	0	0	0	0	0	0
1/1/2025 11:35	52002	LING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/1/2025 11:38	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
1/1/2025 11:38	63501	HEID_TBK1-2	0	0	0	0	0	0	1.38	1.34	0	0	0	0	0	0
1/1/2025 11:43	67001	STHI_T2	36	28	-8	0.13	0.13	0	0	0	0	0	0	0	0	0
1/1/2025 11:43	67002	STHI_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
1/1/2025 11:47	54504	ENOL_T2	0	0	0	0	0	0	-1.03	-1.04	1	1	0	600	600	0
1/1/2025 11:47	54502	ENOL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/1/2025 11:47	54505	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
1/1/2025 11:52	64101	REFR_T1	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
1/1/2025 11:54	64305	LINC_T1	0	0	0	0	0	0	-0.63	-0.55	0	0	0	0	0	0
1/1/2025 11:54	64101	REFR_T1	0	0	0	0	0	0	0.44	0.59	0	0	0	0	0	0
1/1/2025 11:55	67001	STHI_T2	28	4	-24	0.13	0.3	0.17	0.1	0.1	0	0	0	0	0	0
1/1/2025 11:55	64101	REFR_T1	0	0	0	0	0	0	0.18	0.23	0	0	0	0	0	0
1/1/2025 11:55	67002	STHI_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/1/2025 11:56	64101	REFR_T1	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
1/1/2025 12:00	45502	DERR_T2	0	1	1	0	0	0	-0.59	-0.6	0	0	0	0	0	0
1/1/2025 12:00	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/1/2025 12:00	54501	ENOL_T2	0	0	0	0	0	0	-0.53	-0.53	1	1	0	600	600	0
1/1/2025 12:00	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
1/1/2025 12:00	61001	DONV_T1	1	1	0	0.8	0.7	-0.1	0.53	0.55	0	0	0	0	0	0
1/1/2025 12:00	14702	TREX_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
1/1/2025 12:01	62106	ELAN_T1	24	26	2	0.17	0.2	0.03	-0.02	-0.02	0	0	0	0	0	0
1/1/2025 12:01	62103	ELAN_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/1/2025 12:01	62101	ELAN_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
1/1/2025 12:01	62104	ELAN_T1	13	22	9	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
1/1/2025 12:01	62105	ELAN_T1	21	37	16	0.14	0.14	0	0	0	0	0	0	0	0	0
1/1/2025 12:01	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/1/2025 12:01	61304	EARL_T1	0	0	0	0	0	0	-0.9	-0.94	1	1	0	600	600	0
1/1/2025 12:02	61701	ELIZ_T1	1	1	0	6.2	5.8	-0.4	-0.16	-0.4	0	0	0	0	0	0
1/1/2025 12:02	61703	ELIZ_T1	7	4	-3	0.29	0.13	-0.16	0	0	0	0	0	0	0	0
1/1/2025 12:02	52403	GRPA_T2	1	1	0	0.6	0	-0.6	-0.17	-0.17	0	0	0	0	0	0
1/1/2025 12:03	62106	ELAN_T1	24	26	2	0.17	0.2	0.03	0	0	0	0	0	0	0	0
1/1/2025 12:03	62105	ELAN_T1	21	37	16	0.14	0.14	0	0	0	0	0	0	0	0	0
1/1/2025 12:03	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/1/2025 12:03	62101	ELAN_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
1/1/2025 12:03	62104	ELAN_T1	13	22	9	0.12	0.11	-0.01	0.78	0.81	1	1	0	1200	1200	0
1/1/2025 12:03	62103	ELAN_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/1/2025 12:04	62103	ELAN_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/1/2025 12:04	62105	ELAN_T1	21	37	16	0.14	0.14	0	0	0	0	0	0	0	0	0
1/1/2025 12:04	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/1/2025 12:04	13702	SCHN_T1	37	37	0	0.59	0.48	-0.11	-0.7	-0.72	0	0	0	0	0	0
1/1/2025 12:04	62104	ELAN_T1	13	22	9	0.12	0.11	-0.01	0.78	0.81	1	1	0	1200	1200	0
1/1/2025 12:04	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
1/1/2025 12:04	62101	ELAN_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
1/1/2025 12:04	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/1/2025 12:04	62106	ELAN_T1	24	26	2	0.17	0.2	0.03	0	0	0	0	0	0	0	0
1/1/2025 12:04	54501	ENOL_T2	0	0	0	0	0	0	-0.53	-0.53	1	1	0	600	600	0
1/1/2025 12:05	52403	GRPA_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/1/2025 12:05	54501	ENOL_T2	0	0	0	0	0	0	-0.53	-0.53	1	1	0	600	600	0
1/1/2025 12:05	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/1/2025 12:05	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
1/1/2025 12:05	52401	GRPA_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
1/1/2025 12:06	62105	ELAN_T1	21	37	16	0.14	0.14	0	0	0	0	0	0	0	0	0
1/1/2025 12:06	62101	ELAN_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
1/1/2025 12:06	62103	ELAN_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/1/2025 12:06	62104	ELAN_T1	13	22	9	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
1/1/2025 12:06	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/1/2025 12:06	62106	ELAN_T1	24	26	2	0.17	0.2	0.03	0	0	0	0	0	0	0	0
1/1/2025 12:07	62103	ELAN_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/1/2025 12:07	62101	ELAN_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
1/1/2025 12:07	62104	ELAN_T1	13	22	9	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
1/1/2025 12:07	62105	ELAN_T1	21	37	16	0.14	0.14	0	0.42	0.42	0	0	0	0	0	0
1/1/2025 12:07	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/1/2025 12:07	62106	ELAN_T1	24	26	2	0.17	0.2	0.03	-0.02	-0.03	0	0	0	0	0	0
1/1/2025 12:11	45303	WBER_T2	8	8	0	1.38	1.4	0.02	0	0	0	0	0	0	0	0
1/1/2025 12:11	45302	WBER_T2	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
1/1/2025 12:13	66505	SMAN_T2	0	1	1	0	0.1	0.1	-0.2	-0.27	1	1	0	900	900	0
1/1/2025 12:18	61703	ELIZ_T1	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
1/1/2025 12:18	61701	ELIZ_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
1/1/2025 12:19	45802	HEGI_T2	37	16	-21	0.7	0.36	-0.34	0	0	0	0	0	0	0	0
1/1/2025 12:20	46101	MAQI_T2	0	0	0	0	0	0	0.71	0.72	0	0	0	0	0	0
1/1/2025 12:22	63602	LETO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/1/2025 12:22	63601	LETO_T1	7	8	1	0.93	1.23	0.3	0.74	0.74	0	0	0	0	0	0
1/1/2025 12:23	63602	LETO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/1/2025 12:23	63601	LETO_T1	7	8	1	0.93	1.23	0.3	0.74	0.74	0	0	0	0	0	0
1/1/2025 12:26	57203	ROSS_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
1/1/2025 12:30	46004	BERW_T2	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
1/1/2025 12:30	60803	BUCK_T1	7	8	1	0.19	0.2	0.01	0	0	0	0	0	0	0	0
1/1/2025 12:30	60801	BUCK_T1	3	14	11	0.33	0.21	-0.12	-0.19	-0.22	0	0	0	0	0	0
1/1/2025 12:32	65803	RTWN_T2	4	6	2	0.15	0.2	0.05	0	0	0	0	0	0	0	0
1/1/2025 12:32	60801	BUCK_T1	3	14	11	0.33	0.21	-0.12	-0.19	-0.22	0	0	0	0	0	0
1/1/2025 12:32	60803	BUCK_T1	7	8	1	0.19	0.2	0.01	0	0	0	0	0	0	0	0
1/1/2025 12:32	61001	DONV_T1	1	1	0	0.1	0.3	0.2	1.12	1	0	0	0	0	0	0
1/1/2025 12:32	65802	RTWN_T2	1	1	0	1.4	0.5	-0.9	-0.26	-0.24	0	0	0	0	0	0
1/1/2025 12:48	52004	LING_T2	2	2	0	5.6	6.3	0.7	0.28	0.27	0	0	0	0	0	0
1/1/2025 12:48	52006	LING_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
1/1/2025 12:48	52002	LING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/1/2025 12:49	46803	HEPB_T2	3	2	-1	0.13	0.15	0.02	0.26	0.29	0	0	0	0	0	0
1/1/2025 12:49	46801	HEPB_T2	4	3	-1	0.33	0.33	0	0	0	0	0	0	0	0	0
1/1/2025 12:49	64501	LAVI_T1	26	30	4	0.12	0.14	0.02	-0.43	-0.4	0	0	0	0	0	0
1/1/2025 12:49	64502	LAVI_T1	38	29	-9	0.13	0.14	0.01	0	0	0	0	0	0	0	0
1/1/2025 12:49	64503	LAVI_T1	43	52	9	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
1/1/2025 12:50	64503	LAVI_T1	43	52	9	0.43	0.4	-0.03	-2.42	-2.45	2	2	0	2400	2400	0
1/1/2025 12:50	64502	LAVI_T1	38	29	-9	0.13	0.14	0.01	0	0	0	0	0	0	0	0
1/1/2025 12:50	64501	LAVI_T1	26	30	4	0.12	0.14	0.02	0	0	0	0	0	0	0	0
1/1/2025 12:50	52502	PROG_T2	0	0	0	0	0	0	-0.62	-0.59	1	1	0	900	900	0
1/1/2025 12:51	64503	LAVI_T1	43	52	9	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
1/1/2025 12:51	64501	LAVI_T1	26	30	4	0.12	0.14	0.02	-0.43	-0.4	0	0	0	0	0	0
1/1/2025 12:51	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	0.65	0.66	0	0	0	0	0	0
1/1/2025 12:51	64502	LAVI_T1	38	29	-9	0.13	0.14	0.01	0	0	0	0	0	0	0	0
1/1/2025 12:52	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	0.66	0.66	0	0	0	0	0	0
1/1/2025 12:53	64501	LAVI_T1	26	30	4	0.12	0.14	0.02	0	0	0	0	0	0	0	0
1/1/2025 12:53	64503	LAVI_T1	43	52	9	0.43	0.4	-0.03	-2.45	-2.42	2	2	0	2400	2400	0
1/1/2025 12:53	64502	LAVI_T1	38	29	-9	0.13	0.14	0.01	0	0	0	0	0	0	0	0
1/1/2025 12:57	67304	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/1/2025 12:58	46002	BERW_T2	0	0	0	0	0	0	-0.49	-0.46	0	0	0	0	0	0
1/1/2025 12:58	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 13:02	11301	EMMA_T1	0	0	0	0	0	0	-0.79	-0.75	0	0	0	0	0	0
1/1/2025 13:05	47102	MARL_T2	13	13	0	0.22	0.24	0.02	0	0	0	0	0	0	0	0
1/1/2025 13:05	47103	MARL_T2	2	1	-1	0.2	0.1	-0.1	-0.56	-0.56	0	0	0	0	0	0
1/1/2025 13:06	47103	MARL_T2	2	1	-1	0.2	0.1	-0.1	-0.56	-0.56	0	0	0	0	0	0
1/1/2025 13:06	47102	MARL_T2	13	13	0	0.22	0.24	0.02	0	0	0	0	0	0	0	0
1/1/2025 13:08	40902	JESH_T1	0	0	0	0	0	0	-0.73	-0.69	0	0	0	0	0	0
1/1/2025 13:08	40901	JESH_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
1/1/2025 13:10	57201	ROSS_T1	0	0	0	0	0	0	-1.12	-1.1	0	0	0	0	0	0
1/1/2025 13:11	61703	ELIZ_T1	0	0	0	0	0	0	-1.77	-1.74	1	1	0	900	900	0
1/1/2025 13:11	61701	ELIZ_T1	1	1	0	5.9	6.3	0.4	0	0	0	0	0	0	0	0
1/1/2025 13:13	64201	KINZ_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/1/2025 13:13	64204	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/1/2025 13:13	57201	ROSS_T1	0	0	0	0	0	0	-1.12	-1.1	0	0	0	0	0	0
1/1/2025 13:13	64202	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/1/2025 13:13	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 13:16	43802	SWIL_T1	0	0	0	0	0	0	-0.06	-0.04	1	1	0	600	600	0
1/1/2025 13:16	43801	SWIL_T1	2	5	3	3.2	1.34	-1.86	0	0	0	0	0	0	0	0
1/1/2025 13:21	48301	ORWI_T1	3	11	8	3.93	1.23	-2.7	0.03	0	0	0	0	0	0	0
1/1/2025 13:22	48301	ORWI_T1	3	11	8	3.93	1.23	-2.7	0	-0.05	0	0	0	0	0	0
1/1/2025 13:22	58401	MORO_T1	0	0	0	0	0	0	-1	-1	1	1	0	600	600	0
1/1/2025 13:23	58401	MORO_T1	0	0	0	0	0	0	-1	-1	1	1	0	600	600	0
1/1/2025 13:24	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 13:25	48303	ORWI_T2	1	46	45	0.1	0.14	0.04	0.38	0.37	0	0	0	0	0	0
1/1/2025 13:25	48302	ORWI_T2	16	72	56	0.36	0.27	-0.09	0	0	0	0	0	0	0	0
1/1/2025 13:29	64305	LINC_T1	0	1	1	0	0	0	-0.59	-0.62	0	0	0	0	0	0
1/1/2025 13:30	64301	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 13:35	64202	KINZ_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
1/1/2025 13:35	64204	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
1/1/2025 13:35	64201	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/1/2025 13:36	64302	LINC_T2	0	0	0	0	0	0	0	0.11	0	0	0	0	0	0
1/1/2025 13:46	13704	SCHN_T2	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
1/1/2025 13:48	10801	CHIH_T1	0	0	0	0	0	0	-2.16	-2.15	3	3	0	2100	2100	0
1/1/2025 13:56	48302	ORWI_T2	49	49	0	0.24	0.24	0	0	0	0	0	0	0	0	0
1/1/2025 13:56	48303	ORWI_T2	18	5	-13	0.14	0.14	0	0.37	0.38	0	0	0	0	0	0
1/1/2025 13:58	46001	BERW_T1	0	0	0	0	0	0	0.6	0.55	0	0	0	0	0	0
1/1/2025 13:58	54206	PENN_T2	0	0	0	0	0	0	-0.08	-0.04	0	0	0	0	0	0
1/1/2025 13:58	46005	BERW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 13:59	54201	PENN_T1	11	12	1	0.8	0.63	-0.17	0.06	0.06	0	0	0	0	0	0
1/1/2025 13:59	54203	PENN_T1	20	20	0	1.18	1.22	0.04	0	0	0	0	0	0	0	0
1/1/2025 14:00	43801	SWIL_T1	2	2	0	3.2	3.05	-0.15	0	0	0	0	0	0	0	0
1/1/2025 14:00	54206	PENN_T2	0	0	0	0	0	0	-0.08	-0.04	0	0	0	0	0	0
1/1/2025 14:00	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 14:01	54203	PENN_T1	20	20	0	1.21	1.19	-0.02	-0.02	-0.04	0	0	0	0	0	0
1/1/2025 14:01	54201	PENN_T1	12	10	-2	0.63	0.75	0.12	0	0	0	0	0	0	0	0
1/1/2025 14:02	54206	PENN_T2	0	0	0	0	0	0	-0.08	-0.04	0	0	0	0	0	0
1/1/2025 14:05	42401	GIMA_T1	49	36	-13	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
1/1/2025 14:06	54203	PENN_T1	20	20	0	1.21	1.19	-0.02	0	0	0	0	0	0	0	0
1/1/2025 14:06	54201	PENN_T1	12	10	-2	0.63	0.75	0.12	0.06	0.02	0	0	0	0	0	0
1/1/2025 14:06	63602	LETO_T1	0	0	0	0	0	0	-0.53	-0.49	0	0	0	0	0	0
1/1/2025 14:06	63601	LETO_T1	6	6	0	1.03	1.15	0.12	0	0	0	0	0	0	0	0
1/1/2025 14:07	63602	LETO_T1	0	0	0	0	0	0	-0.49	-0.56	0	0	0	0	0	0
1/1/2025 14:07	63601	LETO_T1	6	6	0	1.03	1.15	0.12	0	0	0	0	0	0	0	0
1/1/2025 14:13	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 14:16	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 14:17	42501	ALTA_T2	0	0	0	0	0	0	-0.04	0	2	2	0	1200	1200	0
1/1/2025 14:17	42504	ALTA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/1/2025 14:20	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	0.65	0.66	0	0	0	0	0	0
1/1/2025 14:22	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	0.66	0.64	0	0	0	0	0	0
1/1/2025 14:24	14603	SWHI_T1	0	0	0	0	0	0	-1.66	-1.65	2	2	0	1200	1200	0
1/1/2025 14:26	14603	SWHI_T1	0	0	0	0	0	0	-1.66	-1.65	2	2	0	1200	1200	0
1/1/2025 14:31	52403	GRPA_T2	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
1/1/2025 14:31	52402	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/1/2025 14:33	64204	KINZ_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/1/2025 14:33	64201	KINZ_T1	0	0	0	0	0	0	0.06	0.03	2	2	0	600	600	0
1/1/2025 14:34	51702	OBER_T1	2	2	0	2.65	2.8	0.15	-0.89	-0.86	1	1	0	600	600	0
1/1/2025 14:35	64204	KINZ_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/1/2025 14:35	46801	HEPB_T2	18	20	2	0.23	0.24	0.01	0	0	0	0	0	0	0	0
1/1/2025 14:35	51702	OBER_T1	2	2	0	2.65	2.8	0.15	-0.89	-0.86	1	1	0	600	600	0
1/1/2025 14:35	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 14:35	46803	HEPB_T2	11	10	-1	0.18	0.18	0	0	0	0	0	0	0	0	0
1/1/2025 14:37	64201	KINZ_T1	0	0	0	0	0	0	0.03	0.06	2	2	0	600	600	0
1/1/2025 14:37	64204	KINZ_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/1/2025 14:40	65001	NEFF_T2	0	7	7	0	1	1	0	-0.18	0	0	0	0	0	0
1/1/2025 14:52	65001	NEFF_T2	0	7	7	0	0	0	-0.18	-0.19	0	0	0	0	0	0
1/1/2025 14:59	64301	LINC_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
1/1/2025 14:59	43304	WATS_T2	1	2	1	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
1/1/2025 15:00	43304	WATS_T2	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
1/1/2025 15:00	65001	NEFF_T2	42	0	-42	0.92	0	-0.92	-0.18	-0.19	0	0	0	0	0	0
1/1/2025 15:01	43304	WATS_T2	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
1/1/2025 15:10	65901	SAKR_T2	0	0	0	0	0	0	-1.86	-0.97	2	1	-1	1500	900	-600
1/1/2025 15:22	40101	HUNT_T2	42	251	209	0.46	0.47	0.01	-1.17	-1.13	0	0	0	0	0	0
1/1/2025 15:26	14602	SWHI_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/1/2025 15:26	14601	SWHI_T1	0	0	0	0	0	0	-1.66	-1.64	0	0	0	0	0	0
1/1/2025 15:44	64701	LITI_T1	0	0	0	0	0	0	0.12	0.26	0	0	0	0	0	0
1/1/2025 15:56	16102	BING_T2	1	1	0	4.5	4.2	-0.3	0	0	0	0	0	0	0	0
1/1/2025 15:56	16101	BING_T2	0	1	1	0	0	0	0.43	0.44	0	0	0	0	0	0
1/1/2025 16:01	43301	WATS_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
1/1/2025 16:01	43304	WATS_T2	0	8	8	0	0.3	0.3	0	0	0	0	0	0	0	0
1/1/2025 16:34	63501	HEID_TBK1-2	1	1	0	0.3	0.3	0	0.67	0.68	0	0	0	0	0	0
1/1/2025 16:37	64701	LITI_T1	0	0	0	0	0	0	0.1	0.14	0	0	0	0	0	0
1/1/2025 17:48	17802	GILB_T1	0	57	57	0	0	0	0.06	0.09	0	0	0	0	0	0
1/1/2025 17:52	10105	ALLE_T3	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/1/2025 17:52	10101	ALLE_T3	1	1	0	6.7	6.2	-0.5	0	0	0	0	0	0	0	0
1/1/2025 17:52	10205	ALLE_T3	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
1/1/2025 17:52	10103	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 17:52	10109	ALLE_T3	5	6	1	0.56	0.76	0.2	0	0	0	0	0	0	0	0
1/1/2025 18:06	61701	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 18:29	46004	BERW_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
1/1/2025 18:29	46002	BERW_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
1/1/2025 18:32	46004	BERW_T2	1	6	5	0.5	0.5	0	0.74	0.79	0	0	0	0	0	0
1/1/2025 18:36	46001	BERW_T1	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
1/1/2025 18:38	13702	SCHN_T1	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
1/1/2025 18:38	52402	GRPA_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/1/2025 18:38	52404	GRPA_T2	0	1	1	0	0	0	0.44	0.47	0	0	0	0	0	0
1/1/2025 18:38	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 18:38	52401	GRPA_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/1/2025 18:39	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/1/2025 18:39	42501	ALTA_T2	0	0	0	0	0	0	-0.04	0	2	2	0	1200	1200	0
1/1/2025 18:40	52402	GRPA_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/1/2025 18:40	52401	GRPA_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/1/2025 18:40	52404	GRPA_T2	0	1	1	0	0	0	0.44	0.47	0	0	0	0	0	0
1/1/2025 18:40	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 18:41	29401	BELT_T1	6	20	14	0.12	0.16	0.04	0	0	1	1	0	900	900	0
1/1/2025 18:41	29402	BELT_T1	5	14	9	1.32	0.61	-0.71	0	0	0	0	0	0	0	0
1/1/2025 18:42	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.41	0	0	0	0	0	0
1/1/2025 18:42	10602	BLGI_T2	1	1	0	9.3	9	-0.3	0.32	0.27	0	0	0	0	0	0
1/1/2025 18:42	11301	EMMA_T1	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
1/1/2025 18:44	14603	SWHI_T1	2	1	-1	1.3	0	-1.3	-1.61	-1.59	2	2	0	1200	1200	0
1/1/2025 18:45	45302	WBER_T2	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
1/1/2025 18:45	45303	WBER_T2	2	4	2	4.75	2.55	-2.2	0	0	0	0	0	0	0	0
1/1/2025 18:46	10101	ALLE_T3	1	2	1	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
1/1/2025 18:46	14801	TREI_T2	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
1/1/2025 18:46	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 18:46	13704	SCHN_T2	0	0	0	0	0	0	-0.92	-0.88	0	0	0	0	0	0
1/1/2025 18:46	17002	RIRO_T2	13	23	10	0.11	0.17	0.06	0.31	0.35	0	0	0	0	0	0
1/1/2025 18:46	10109	ALLE_T3	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
1/1/2025 18:46	10105	ALLE_T3	3	11	8	1.07	0.3	-0.77	0	0	0	0	0	0	0	0
1/1/2025 18:47	54505	ENOL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
1/1/2025 18:47	54504	ENOL_T2	0	0	0	0	0	0	-1	-0.98	1	1	0	600	600	0
1/1/2025 18:47	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.41	0	0	0	0	0	0
1/1/2025 18:47	47102	MARL_T2	2	9	7	0.1	0.13	0.03	0	0	0	0	0	0	0	0
1/1/2025 18:47	48301	ORWI_T1	2	3	1	5.3	3.8	-1.5	-0.01	0.02	0	0	0	0	0	0
1/1/2025 18:47	55001	NEWP_T1	1	1	0	0.8	0	-0.8	-0.26	-0.27	0	0	0	0	0	0
1/1/2025 18:47	47103	MARL_T2	0	1	1	0	0.1	0.1	0.51	0.52	0	0	0	0	0	0
1/1/2025 18:47	55002	NEWP_T1	4	6	2	0.98	0.83	-0.15	0	0	0	0	0	0	0	0
1/1/2025 18:48	16101	BING_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
1/1/2025 18:48	16102	BING_T2	1	2	1	2.6	2.9	0.3	0	0	0	0	0	0	0	0
1/1/2025 18:48	43301	WATS_T2	0	0	0	0	0	0	-0.31	-0.39	0	0	0	0	0	0
1/1/2025 18:48	43302	WATS_T2	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
1/1/2025 18:48	11507	FREE_T2	1	1	0	0.2	0.3	0.1	0.21	0.17	0	0	0	0	0	0
1/1/2025 18:48	14201	EALL_T1	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
1/1/2025 18:48	43304	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/1/2025 18:49	26704	HEMI_T2	0	0	0	0	0	0	-0.84	-0.84	1	1	0	1200	1200	0
1/1/2025 18:49	43801	SWIL_T1	2	2	0	2.95	3.15	0.2	0	0	0	0	0	0	0	0
1/1/2025 18:49	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 18:50	61001	DONV_T1	0	0	0	0	0	0	-0.11	-0.14	0	0	0	0	0	0
1/1/2025 18:51	43302	WATS_T2	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
1/1/2025 18:51	29401	BELT_T1	8	19	11	0.13	0.15	0.02	0	0	1	1	0	900	900	0
1/1/2025 18:51	43304	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/1/2025 18:51	60801	BUCK_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
1/1/2025 18:51	52502	PROG_T2	0	0	0	0	0	0	-0.44	-0.48	1	1	0	900	900	0
1/1/2025 18:51	29402	BELT_T1	14	1	-13	0.61	6.4	5.79	0	0	0	0	0	0	0	0
1/1/2025 18:52	10101	ALLE_T3	1	2	1	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
1/1/2025 18:52	40301	TAMA_T3	14	23	9	0.5	0.58	0.08	0	0	0	0	0	0	0	0
1/1/2025 18:52	40101	HUNT_T2	118	97	-21	0.71	0.69	-0.02	-1.36	-1.39	0	0	0	0	0	0
1/1/2025 18:52	54201	PENN_T1	13	31	18	0.56	0.44	-0.12	0	0	0	0	0	0	0	0
1/1/2025 18:52	40302	TAMA_T3	31	44	13	0.6	0.68	0.08	0	0	0	0	0	0	0	0
1/1/2025 18:52	54203	PENN_T1	19	59	40	1.36	0.56	-0.8	-0.02	-0.04	0	0	0	0	0	0
1/1/2025 18:52	54205	PENN_T1	0	27	27	0	0.1	0.1	0	0	0	0	0	0	0	0
1/1/2025 18:52	10105	ALLE_T3	3	11	8	1.07	0.3	-0.77	0	0	0	0	0	0	0	0
1/1/2025 18:52	40303	TAMA_T3	27	73	46	0.31	0.33	0.02	0.8	0.8	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/1/2025 18:52	10109	ALLE_T3	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
1/1/2025 18:53	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	-0.25	-0.25	1	1	0	900	900	0
1/1/2025 18:53	67002	STHI_T2	66	82	16	0.21	0.23	0.02	0.65	0.63	0	0	0	0	0	0
1/1/2025 18:53	66505	SMAN_T2	2	3	1	0.6	0.73	0.13	0	0	0	0	0	0	0	0
1/1/2025 18:53	47202	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 18:53	66502	SMAN_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
1/1/2025 18:53	67001	STHI_T2	368	460	92	0.21	0.27	0.06	0	0	0	0	0	0	0	0
1/1/2025 18:53	65503	MOJO_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
1/1/2025 18:53	52502	PROG_T2	0	0	0	0	0	0	-0.44	-0.48	1	1	0	900	900	0
1/1/2025 18:53	48301	ORWI_T1	2	3	1	5.3	3.8	-1.5	0.02	0	0	0	0	0	0	0
1/1/2025 18:53	47203	FAXO_T2	0	1	1	0	0.4	0.4	-1.72	-1.7	1	1	0	1200	1200	0
1/1/2025 18:54	14703	TREX_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/1/2025 18:54	14702	TREX_T2	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
1/1/2025 18:54	42401	GIMA_T1	2	10	8	0.1	0.18	0.08	0	0	0	0	0	0	0	0
1/1/2025 18:54	46101	MACI_T2	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
1/1/2025 18:54	14701	TREX_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/1/2025 18:54	52502	PROG_T2	0	0	0	0	0	0	-0.44	-0.48	1	1	0	900	900	0
1/1/2025 18:54	66901	SHIL_T2	0	0	0	0	0	0	-0.43	-0.39	0	0	0	0	0	0
1/1/2025 18:54	58401	MORO_T1	0	0	0	0	0	0	-0.92	-0.97	1	1	0	600	600	0
1/1/2025 18:54	66504	SMAN_T2	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
1/1/2025 18:54	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 18:54	57203	ROSS_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
1/1/2025 18:54	65207	PRIN_T4	2	2	0	0.8	0.5	-0.3	0	0	1	1	0	1200	1200	0
1/1/2025 18:54	10801	CHHI_T1	0	0	0	0	0	0	-2.13	-2.1	3	3	0	2100	2100	0
1/1/2025 18:54	66505	SMAN_T2	2	3	1	0.6	0.73	0.13	-0.41	-0.46	1	1	0	900	900	0
1/1/2025 18:54	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 18:54	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 18:54	54501	ENOL_T2	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
1/1/2025 18:54	52006	LING_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/1/2025 18:54	54505	ENOL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
1/1/2025 18:54	52004	LING_T2	2	2	0	5.8	5.9	0.1	0.24	0.23	0	0	0	0	0	0
1/1/2025 18:55	47103	MARL_T2	0	1	1	0	0.1	0.1	-0.52	-0.53	0	0	0	0	0	0
1/1/2025 18:55	54201	PENN_T1	13	31	18	0.56	0.44	-0.12	0.01	-0.02	0	0	0	0	0	0
1/1/2025 18:55	54203	PENN_T1	19	59	40	1.36	0.56	-0.8	0	0	0	0	0	0	0	0
1/1/2025 18:55	47102	MARL_T2	2	9	7	0.1	0.13	0.03	0	0	0	0	0	0	0	0
1/1/2025 18:55	64502	LAVI_T1	278	302	24	0.4	0.45	0.05	0	0	0	0	0	0	0	0
1/1/2025 18:55	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	-0.25	-0.25	1	1	0	900	900	0
1/1/2025 18:55	64301	LINC_T1	0	0	0	0	0	0	-0.14	-0.09	0	0	0	0	0	0
1/1/2025 18:55	48302	ORWI_T2	2	8	6	1.5	0.49	-1.01	0	0	0	0	0	0	0	0
1/1/2025 18:55	54601	SUMM_T2	2	4	2	0.45	0.43	-0.02	-1.79	-1.81	2	2	0	2100	2100	0
1/1/2025 18:55	48303	ORWI_T2	0	0	0	0	0	0	0.37	0.41	0	0	0	0	0	0
1/1/2025 18:55	65003	NEFF_T2	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
1/1/2025 18:55	64503	LAVI_T1	79	262	183	0.56	0.33	-0.23	-1.24	-1.24	1	1	0	1200	1200	0
1/1/2025 18:55	64501	LAVI_T1	106	128	22	0.31	0.37	0.06	0	0	0	0	0	0	0	0
1/1/2025 18:55	65004	NEFF_T2	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
1/1/2025 18:55	54205	PENN_T1	0	27	27	0	0.1	0.1	0	0	0	0	0	0	0	0
1/1/2025 18:55	52001	LING_T1	0	0	0	0	0	0	0.28	0.34	0	0	0	0	0	0
1/1/2025 18:56	48302	ORWI_T2	2	8	6	1.5	0.49	-1.01	0	0	0	0	0	0	0	0
1/1/2025 18:56	14603	SWHI_T1	0	1	1	0	0	0	-1.59	-1.62	2	2	0	1200	1200	0
1/1/2025 18:56	43304	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/1/2025 18:56	64201	KINZ_T1	1	1	0	0.5	0.6	0.1	-0.72	-0.75	3	3	0	1500	1500	0
1/1/2025 18:56	14601	SWHI_T1	0	0	0	0	0	0	-1.58	-1.6	0	0	0	0	0	0
1/1/2025 18:56	48303	ORWI_T2	0	0	0	0	0	0	0.37	0.41	0	0	0	0	0	0
1/1/2025 18:56	67002	STHI_T2	66	82	16	0.21	0.23	0.02	1.3	1.26	0	0	0	0	0	0
1/1/2025 18:56	64204	KINZ_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
1/1/2025 18:56	43302	WATS_T2	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
1/1/2025 18:56	54206	PENN_T2	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
1/1/2025 18:56	67001	STHI_T2	368	460	92	0.21	0.27	0.06	0	0	0	0	0	0	0	0
1/1/2025 18:56	57201	ROSS_T1	0	0	0	0	0	0	-1.19	-1.21	0	0	0	0	0	0
1/1/2025 18:57	67001	STHI_T2	368	460	92	0.21	0.27	0.06	0	0	0	0	0	0	0	0
1/1/2025 18:57	48301	ORWI_T1	2	3	1	5.3	3.8	-1.5	0.02	0	0	0	0	0	0	0
1/1/2025 18:57	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
1/1/2025 18:57	66505	SMAN_T2	2	3	1	0.6	0.73	0.13	0	0	0	0	0	0	0	0
1/1/2025 18:57	66502	SMAN_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
1/1/2025 18:57	60101	COCA_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
1/1/2025 18:57	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	900	900	0
1/1/2025 18:57	44301	BEAV_T2	4	2	-2	0.88	2.5	1.62	-1.08	-0.86	1	1	0	600	600	0
1/1/2025 18:57	67002	STHI_T2	66	82	16	0.21	0.23	0.02	0.65	0.63	0	0	0	0	0	0
1/1/2025 18:57	43304	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/1/2025 18:57	43302	WATS_T2	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
1/1/2025 18:58	62106	ELAN_T1	5	15	10	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
1/1/2025 18:58	64502	LAVI_T1	278	302	24	0.4	0.45	0.05	0	0	0	0	0	0	0	0
1/1/2025 18:58	62101	ELAN_T1	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/1/2025 18:58	64503	LAVI_T1	79	262	183	0.56	0.33	-0.23	-1.24	-1.24	1	1	0	1200	1200	0
1/1/2025 18:58	63601	LETO_T1	6	5	-1	0.65	0.64	-0.01	0.75	0.59	0	0	0	0	0	0
1/1/2025 18:58	64701	LITI_T1	0	0	0	0	0	0	0.08	0.04	0	0	0	0	0	0
1/1/2025 18:58	62104	ELAN_T1	3	15	12	0.1	0.11	0.01	0.84	0.84	1	1	0	1200	1200	0
1/1/2025 18:58	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
1/1/2025 18:58	62105	ELAN_T1	6	30	24	0.1	0.14	0.04	0	0	0	0	0	0	0	0
1/1/2025 18:58	51702	OBER_T1	2	2	0	2.05	2.4	0.35	-0.96	-0.94	1	1	0	600	600	0
1/1/2025 18:58	65802	RTWN_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
1/1/2025 18:58	10801	CHHI_T1	0	0	0	0	0	0	-2.13	-2.1	3	3	0	2100	2100	0
1/1/2025 18:58	67001	STHI_T2	368	460	92	0.21	0.27	0.06	0	0	0	0	0	0	0	0
1/1/2025 18:58	57201	ROSS_T1	0	0	0	0	0	0	-1.19	-1.21	0	0	0	0	0	0
1/1/2025 18:58	64501	LAVI_T1	106	128	22	0.31	0.37	0.06	0	0	0	0	0	0	0	0
1/1/2025 18:58	54601	SUMM_T2	2	4	2	0.45	0.43	-0.02	-1.79	-1.81	2	2	0	2100	2100	0
1/1/2025 18:58	66505	SMAN_T2	2	3	1	0.6	0.73	0.13	0	0	0	0	0	0	0	0
1/1/2025 18:58	58102	NEKI_T1	1	1	0	1.5	1.6	0.1	-0.12	-0.09	0	0	0	0	0	0
1/1/2025 18:58	62103	ELAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/1/2025 18:58	67002	STHI_T2	66	82	16	0.21	0.23	0.02	0	0	0	0	0	0	0	0
1/1/2025 18:59	62104	ELAN_T1	3	15	12	0.1	0.11	0.01	0	0	0	0	0	0	0	0
1/1/2025 18:59	54603	SUMM_T2	0	0	0	0	0	0	-0.45	-0.44	1	1	0	900	900	0
1/1/2025 18:59	41903	REED_T1	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
1/1/2025 18:59	62101	ELAN_T1	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/1/2025 18:59	64201	KINZ_T1	1	1	0	0.5	0.6	0.1	-0.72	-0.75	3	3	0	1500	1500	0
1/1/2025 18:59	66505	SMAN_T2	2	3	1	0.6	0.73	0.13	-0.41	-0.46	1	1	0	900	900	0
1/1/2025 18:59	62105	ELAN_T1	6	30	24	0.1	0.14	0.04	0.49	0.51	0	0	0	0	0	0
1/1/2025 18:59	41902	REED_T1	14	18	4	0.71	0.34	-0.37	0	0	0	0	0	0	0	0
1/1/2025 18:59	41901	REED_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
1/1/2025 18:59	62103	ELAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/1/2025 18:59	64204	KINZ_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
1/1/2025 18:59	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	-0.25	-0.25	1	1	0	900	900	0
1/1/2025 18:59	54601	SUMM_T2	2	4	2	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
1/1/2025 18:59	60801	BUCK_T1	0	0	0	0	0	0	-0.4	-0.36	0	0	0	0	0	0
1/1/2025 18:59	62106	ELAN_T1	5	15	10	0.16	0.15	-0.01	-0.04	-0.05	0	0	0	0	0	0
1/1/2025 19:00	67001	STHI_T2	417	487	70	0.25	0.29	0.04	0	0	0	0	0	0	0	0
1/1/2025 19:00	63601	LETO_T1	5	6	1	0.62	0.55	-0.07	0.75	0.59	0	0	0	0	0	0
1/1/2025 19:00	64702	LITI_T2	0	0	0	0	0	0	-0.85	-0.91	0	0	0	0	0	0
1/1/2025 19:00	66505	SMAN_T2	3	3	0	0.63	0.8	0.17	0	0	0	0	0	0	0	0
1/1/2025 19:00	64502	LAVI_T1	286	317	31	0.42	0.54	0.12	0	0	0	0	0	0	0	0
1/1/2025 19:00	52401	GRPA_T2	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
1/1/2025 19:00	40901	JESH_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
1/1/2025 19:00	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/1/2025 19:00	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/1/2025 19:00	43801	SWIL_T1	2	2	0	3.15	3.2	0.05	0	0	0	0	0	0	0	0
1/1/2025 19:00	46205	DANV_T2	0	0	0	0	0	0	-0.82	-0.85	1	1	0	1200	1200	0
1/1/2025 19:00	65802	RTWN_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
1/1/2025 19:00	52404	GRPA_T2	1	7	6	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/1/2025 19:00	54501	ENOL_T2	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
1/1/2025 19:00	64501	LAVI_T1	121	132	11	0.36	0.4	0.04	-0.38	-0.41	0	0	0	0	0	0
1/1/2025 19:00	52402	GRPA_T2	1	4	3	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/1/2025 19:00	64503	LAVI_T1	202	298	96	0.33	0.35	0.02	0	0	0	0	0	0	0	0
1/1/2025 19:00	40902	JESH_T1	0	0	0	0	0	0	-0.7	-0.74	0	0	0	0	0	0
1/1/2025 19:00	67002	STHI_T2	74	107	33	0.22	0.22	0	0.65	0.63	0	0	0	0	0	0
1/1/2025 19:00	64101	REFR_T1	0	0	0	0	0	0	0.4	0.36	0	0	0	0	0	0
1/1/2025 19:00	66502	SMAN_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
1/1/2025 19:00	52403	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/1/2025 19:00	43802	SWIL_T1	0	0	0	0	0	0	-0.06	-0.05	1	1	0	600	600	0
1/1/2025 19:01	43304	WATS_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/1/2025 19:01	52006	LING_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
1/1/2025 19:01	40301	TAMA_T3	22	23	1	0.57	0.56	-0.01	1.28	1.22	0	0	0	0	0	0
1/1/2025 19:01	64501	LAVI_T1	121	132	11	0.36	0.4	0.04	-0.38	-0.41	0	0	0	0	0	0
1/1/2025 19:01	67402	WAKE_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
1/1/2025 19:01	64502	LAVI_T1	286	317	31	0.42	0.54	0.12	0	0	0	0	0	0	0	0
1/1/2025 19:01	51702	OBER_T1	2	2	0	2.3	2.75	0.45	-0.96	-0.94	1	1	0	600	600	0
1/1/2025 19:01	43302	WATS_T2	3	4	1	0.17	0.23	0.06	0	0	0	0	0	0	0	0
1/1/2025 19:01	63501	HEID_TBK1-2	0	5	5	0	0.12	0.12	-0.25	-0.25	1	1	0	900	900	0
1/1/2025 19:01	64503	LAVI_T1	202	298	96	0.33	0.35	0.02	0	0	0	0	0	0	0	0
1/1/2025 19:01	66505	SMAN_T2	3	3	0	0.63	0.8	0.17	0	0	0	0	0	0	0	0
1/1/2025 19:01	40303	TAMA_T3	61	74	13	0.32	0.34	0.02	0	0	0	0	0	0	0	0
1/1/2025 19:01	40302	TAMA_T3	42	43	1	0.67	0.67	0	0	0	0	0	0	0	0	0
1/1/2025 19:01	66502	SMAN_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
1/1/2025 19:01	67401	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 19:01	52004	LING_T2	2	2	0	5.85	5.95	0.1	0.24	0.23	0	0	0	0	0	0
1/1/2025 19:02	64802	MONE_T2	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
1/1/2025 19:02	62104	ELAN_T1	13	41	28	0.12	0.14	0.02	0	0	0	0	0	0	0	0
1/1/2025 19:02	64902	MILL_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	900	900	0
1/1/2025 19:02	62103	ELAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/1/2025 19:02	62106	ELAN_T1	13	12	-1	0.16	0.14	-0.02	-0.04	-0.05	0	0	0	0	0	0
1/1/2025 19:02	43302	WATS_T2	3	4	1	0.17	0.23	0.06	0	0	0	0	0	0	0	0
1/1/2025 19:02	65205	PRIN_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
1/1/2025 19:02	64305	LINC_T1	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
1/1/2025 19:02	62101	ELAN_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/1/2025 19:02	43304	WATS_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/1/2025 19:02	62105	ELAN_T1	29	24	-5	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
1/1/2025 19:03	65003	NEFF_T2	4	9	5	0.1	0.15	0.05	0	0	0	0	0	0	0	0
1/1/2025 19:03	54206	PENN_T2	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
1/1/2025 19:03	65802	RTWN_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
1/1/2025 19:03	66502	SMAN_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
1/1/2025 19:03	64501	LAVI_T1	121	132	11	0.36	0.4	0.04	0	0	0	0	0	0	0	0
1/1/2025 19:03	66505	SMAN_T2	3	3	0	0.63	0.8	0.17	0	0	0	0	0	0	0	0
1/1/2025 19:03	62103	ELAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/1/2025 19:03	46803	HEPB_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/1/2025 19:03	45802	HEGI_T2	7	44	37	0.34	0.47	0.13	0	0	0	0	0	0	0	0
1/1/2025 19:03	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 19:03	62105	ELAN_T1	29	24	-5	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
1/1/2025 19:03	62101	ELAN_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/1/2025 19:03	42501	ALTA_T2	0	0	0	0	0	0	0	0.01	1	1	0	600	600	0
1/1/2025 19:03	46801	HEPB_T2	2	3	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
1/1/2025 19:03	62106	ELAN_T1	13	12	-1	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
1/1/2025 19:03	62104	ELAN_T1	13	41	28	0.12	0.14	0.02	0.84	0.84	1	1	0	1200	1200	0
1/1/2025 19:03	40602	PIGR_T1	1	1	0	3	2.8	-0.2	0.08	0.07	0	0	0	0	0	0
1/1/2025 19:03	64503	LAVI_T1	202	298	96	0.33	0.35	0.02	-1.24	-1.24	1	1	0	1200	1200	0
1/1/2025 19:03	64502	LAVI_T1	286	317	31	0.42	0.54	0.12	0	0	0	0	0	0	0	0
1/1/2025 19:03	42504	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/1/2025 19:03	58401	MORO_T1	0	0	0	0	0	0	-0.92	-0.97	1	1	0	600	600	0
1/1/2025 19:03	44301	BEAV_T2	1	2	1	2.5	2.05	-0.45	0	0	0	0	0	0	0	0
1/1/2025 19:04	55002	NEWP_T1	5	6	1	0.86	0.87	0.01	-0.21	-0.19	0	0	0	0	0	0
1/1/2025 19:04	65502	MOJO_T2	0	0	0	0	0	0	-1.2	-1.23	0	0	0	0	0	0
1/1/2025 19:04	52404	GRPA_T2	1	7	6	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/1/2025 19:04	54206	PENN_T2	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
1/1/2025 19:04	67304	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 19:04	61001	DONV_T1	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
1/1/2025 19:04	55001	NEWP_T1	0	1	1	0	0	0	-0.27	-0.24	0	0	0	0	0	0
1/1/2025 19:04	52402	GRPA_T2	1	4	3	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/1/2025 19:04	64101	REFR_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
1/1/2025 19:04	52403	GRPA_T2	1	0	-1	0.1	0	-0.1	-0.09	-0.09	0	0	0	0	0	0
1/1/2025 19:05	61703	ELIZ_T1	0	0	0	0	0	0	-2.48	-2.53	2	2	0	2100	2100	0
1/1/2025 19:05	64101	REFR_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
1/1/2025 19:05	61701	ELIZ_T1	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
1/1/2025 19:05	64502	LAVI_T1	286	317	31	0.42	0.54	0.12	0	0	0	0	0	0	0	0
1/1/2025 19:05	60801	BUCK_T1	0	0	0	0	0	0	-0.4	-0.36	0	0	0	0	0	0
1/1/2025 19:05	64702	LITI_T2	0	0	0	0	0	0	-0.85	-0.91	0	0	0	0	0	0
1/1/2025 19:05	61001	DONV_T1	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
1/1/2025 19:05	65003	NEFF_T2	4	9	5	0.1	0.15	0.05	0	0	0	0	0	0	0	0
1/1/2025 19:05	66505	SMAN_T2	3	3	0	0.63	0.8	0.17	0	0	0	0	0	0	0	0
1/1/2025 19:05	64503	LAVI_T1	202	298	96	0.33	0.35	0.02	-1.24	-1.24	1	1	0	1200	1200	0
1/1/2025 19:05	57201	ROSS_T1	0	0	0	0	0	0	-2.38	-2.41	0	0	0	0	0	0
1/1/2025 19:05	65005	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 19:05	64501	LAVI_T1	121	132	11	0.36	0.4	0.04	0	0	0	0	0	0	0	0
1/1/2025 19:05	66502	SMAN_T2	0	0	0	0	0	0	-0.1	-0.07	0	0	0	0	0	0
1/1/2025 19:06	63602	LETO_T1	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
1/1/2025 19:06	64101	REFR_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
1/1/2025 19:06	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 19:06	66505	SMAN_T2	3	3	0	0.63	0.8	0.17	0	0	0	0	0	0	0	0
1/1/2025 19:06	63601	LETO_T1	5	6	1	0.62	0.55	-0.07	0	0	0	0	0	0	0	0
1/1/2025 19:06	65901	SAKR_T2	0	0	0	0	0	0	-1.29	-1.29	1	1	0	900	900	0
1/1/2025 19:06	67001	STHI_T2	417	487	70	0.25	0.29	0.04	0.15	0.12	0	0	0	0	0	0
1/1/2025 19:06	67002	STHI_T2	74	107	33	0.22	0.22	0	0.65	0.63	0	0	0	0	0	0
1/1/2025 19:06	57205	ROSS_T1	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
1/1/2025 19:06	64202	KINZ_T1	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
1/1/2025 19:06	64204	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
1/1/2025 19:06	64201	KINZ_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
1/1/2025 19:07	66505	SMAN_T2	3	3	0	0.63	0.8	0.17	0	0	0	0	0	0	0	0
1/1/2025 19:07	66502	SMAN_T2	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
1/1/2025 19:07	60902	DONG_T2	0	0	0	0	0	0	0.55	0.5	0	0	0	0	0	0
1/1/2025 19:07	64203	KINZ_T1	0	0	0	0	0	0	0.15	0.25	0	0	0	0	0	0
1/1/2025 19:07	63801	HEMP_T1	0	0	0	0	0	0	-0.36	0	0	0	0	0	0	0
1/1/2025 19:07	64204	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
1/1/2025 19:07	52404	GRPA_T2	1	7	6	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/1/2025 19:07	52402	GRPA_T2	1	4	3	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/1/2025 19:07	64201	KINZ_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
1/1/2025 19:07	52403	GRPA_T2	1	0	-1	0.1	0	-0.1	-0.09	-0.11	0	0	0	0	0	0
1/1/2025 19:07	63602	LETO_T1	0	0	0	0	0	0	-0.46	-0.4	0	0	0	0	0	0
1/1/2025 19:07	63804	HEMP_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
1/1/2025 19:07	63601	LETO_T1	5	6	1	0.62	0.55	-0.07	0	0	0	0	0	0	0	0
1/1/2025 19:07	40602	PIGR_T1	1	1	0	3	2.8	-0.2	0.07	0.11	0	0	0	0	0	0
1/1/2025 19:07	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 19:08	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 19:08	61703	ELIZ_T1	0	0	0	0	0	0	-2.53	-2.55	2	2	0	2100	2100	0
1/1/2025 19:08	65003	NEFF_T2	4	9	5	0.1	0.15	0.05	-2.21	-2.16	2	2	0	1800	1800	0
1/1/2025 19:08	61701	ELIZ_T1	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
1/1/2025 19:08	58401	MORO_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	600	600	0
1/1/2025 19:09	64101	REFR_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
1/1/2025 19:09	61701	ELIZ_T1	1	1	0	5.6	5.9	0.3	-0.06	0.03	0	0	0	0	0	0
1/1/2025 19:09	63501	HEID_TBK1-2	0	5	5	0	0.12	0.12	-0.25	-0.24	1	1	0	900	900	0
1/1/2025 19:09	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 19:10	67402	WAKE_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
1/1/2025 19:11	58401	MORO_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	600	600	0
1/1/2025 19:11	65502	MOJO_T2	0	0	0	0	0	0	-1.23	-1.18	0	0	0	0	0	0
1/1/2025 19:11	64305	LINC_T1	0	0	0	0	0	0	-0.67	-0.72	0	0	0	0	0	0
1/1/2025 19:11	64301	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 19:11	61304	EARL_T1	0	0	0	0	0	0	-0.92	-0.91	1	1	0	600	600	0
1/1/2025 19:11	64101	REFR_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
1/1/2025 19:12	64101	REFR_T1	0	0	0	0	0	0	0.53	0.63	0	0	0	0	0	0
1/1/2025 19:13	46803	HEPB_T2	2	2	0	0.15	0.15	0	0.26	0.27	0	0	0	0	0	0
1/1/2025 19:13	46801	HEPB_T2	2	3	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
1/1/2025 19:20	45502	DERR_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
1/1/2025 19:32	58402	MORO_T1	0	0	0	0	0	0	-0.17	-0.15	2	2	0	1500	1500	0
1/1/2025 19:48	13704	SCHN_T2	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
1/1/2025 20:38	54201	PENN_T1	22	65	43	0.49	0.36	-0.13	-0.05	-0.03	0	0	0	0	0	0
1/1/2025 20:38	54205	PENN_T1	0	71	71	0	0.25	0.25	0	0	0	0	0	0	0	0
1/1/2025 20:38	54203	PENN_T1	28	168	140	0.97	0.33	-0.64	0	0	0	0	0	0	0	0
1/1/2025 20:42	52004	LING_T2	2	2	0	5.9	6.15	0.25	0.23	0.25	0	0	0	0	0	0
1/1/2025 20:42	52006	LING_T2	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
1/1/2025 21:04	65802	RTWN_T2	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
1/1/2025 22:16	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
1/1/2025 22:16	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/1/2025 22:16	64201	KINZ_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/1/2025 22:16	64202	KINZ_T1	3	3	0	0.7	0.57	-0.13	0	0	0	0	0	0	0	0
1/2/2025 8:33	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/2/2025 8:33	55002	NEWP_T1	6	7	1	1	0.71	-0.29	-0.18	-0.18	0	0	0	0	0	0
1/2/2025 8:36	52502	PROG_T2	0	0	0	0	0	0	-0.4	0.53	1	1	0	900	900	0
1/2/2025 8:37	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 8:38	52502	PROG_T2	0	0	0	0	0	0	-0.4	0.53	1	0	-1	900	0	-900
1/2/2025 8:41	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 8:43	53502	EVIL_T2	1	1	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
1/2/2025 8:43	53501	EVIL_T2	2	1	-1	0.25	0.4	0.15	-0.52	-0.54	1	1	0	600	600	0
1/2/2025 8:45	53501	EVIL_T2	1	1	0	0.4	0.5	0.1	-0.52	-0.54	1	1	0	600	600	0
1/2/2025 8:45	53502	EVIL_T2	1	2	1	2.4	2.9	0.5	0	0	0	0	0	0	0	0
1/2/2025 8:46	53502	EVIL_T2	1	2	1	2.4	2.9	0.5	0	0	0	0	0	0	0	0
1/2/2025 8:46	53501	EVIL_T2	1	1	0	0.4	0.5	0.1	-0.52	-0.54	1	1	0	600	600	0
1/2/2025 8:47	55002	NEWP_T1	5	7	2	0.82	0.67	-0.15	-0.18	-0.17	0	0	0	0	0	0
1/2/2025 8:48	55002	NEWP_T1	5	7	2	0.82	0.67	-0.15	-0.18	-0.17	0	0	0	0	0	0
1/2/2025 8:49	55002	NEWP_T1	5	7	2	0.82	0.67	-0.15	-0.18	-0.17	0	0	0	0	0	0
1/2/2025 8:51	0	SCOT_T2	0	0	0	0	0	0	0.29	0.17	0	0	0	0	0	0
1/2/2025 8:59	54505	ENOL_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
1/2/2025 8:59	54506	ENOL_T2	0	0	0	0	0	0	0.42	0.34	1	1	0	600	600	0
1/2/2025 8:59	61503	EPET_T1	0	0	0	0	0	0	-1.09	-0.98	0	0	0	0	0	0
1/2/2025 8:59	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/2/2025 9:00	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/2/2025 9:00	40602	PIGR_T1	1	1	0	2.8	2.8	0	-0.49	-0.5	1	1	0	600	600	0
1/2/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.57	0.54	0	0	0	0	0	0
1/2/2025 9:00	67502	WEWI_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
1/2/2025 9:00	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/2/2025 9:00	13704	SCHN_T2	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
1/2/2025 9:00	10602	BLGL_T2	1	1	0	7.4	7.5	0.1	1.26	1.4	0	0	0	0	0	0
1/2/2025 9:00	54506	ENOL_T2	0	0	0	0	0	0	0.42	0.34	1	1	0	600	600	0
1/2/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
1/2/2025 9:00	52402	GRPA_T2	5	6	1	0.24	0.28	0.04	0	0	0	0	0	0	0	0
1/2/2025 9:00	63501	HEID_TBK1-2	32	25	-7	0.28	0.19	-0.09	-0.2	-0.23	1	1	0	900	900	0
1/2/2025 9:00	52404	GRPA_T2	0	0	0	0	0	0	0.5	0.09	0	0	0	0	0	0
1/2/2025 9:00	52401	GRPA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
1/2/2025 9:00	52403	GRPA_T2	3	3	0	0.17	0.2	0.03	0	0	0	0	0	0	0	0
1/2/2025 9:01	63501	HEID_TBK1-2	32	25	-7	0.28	0.19	-0.09	0	0	0	0	0	0	0	0
1/2/2025 9:02	50506	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 9:02	50501	MECH_T1	4	4	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
1/2/2025 9:02	50502	MECH_T1	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
1/2/2025 9:03	50502	MECH_T1	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
1/2/2025 9:03	50506	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 9:03	50501	MECH_T1	4	4	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
1/2/2025 9:06	52403	GRPA_T2	3	3	0	0.17	0.2	0.03	0	0	0	0	0	0	0	0
1/2/2025 9:06	52402	GRPA_T2	5	6	1	0.24	0.28	0.04	-0.74	-0.73	0	0	0	0	0	0
1/2/2025 9:06	52401	GRPA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
1/2/2025 9:07	44502	HAMI_T2	1	1	0	2.1	2.2	0.1	0.05	0.06	0	0	0	0	0	0
1/2/2025 9:07	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/2/2025 9:07	41902	REED_T1	11	9	-2	0.87	0	-0.87	1.32	1.3	0	0	0	0	0	0
1/2/2025 9:08	67402	WAKE_T2	0	0	0	0	0	0	0.27	0.28	1	1	0	600	600	0
1/2/2025 9:09	41902	REED_T1	11	9	-2	0.87	0	-0.87	1.32	1.3	0	0	0	0	0	0
1/2/2025 9:09	41901	REED_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/2/2025 9:10	29401	BELT_T1	2	9	7	0.1	0.1	0	0	0	1	1	0	900	900	0
1/2/2025 9:10	29402	BELT_T1	1	4	3	7	1.85	-5.15	0	0	0	0	0	0	0	0
1/2/2025 9:10	16302	ALPA_T2	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
1/2/2025 9:11	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 9:11	46002	BERW_T2	0	0	0	0	0	0	-0.61	-0.67	1	1	0	900	900	0
1/2/2025 9:12	53501	EVIL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/2/2025 9:12	45501	DERR_T2	0	3	3	0	0	0	0.15	0.18	2	2	0	1800	1800	0
1/2/2025 9:12	53502	EVIL_T2	1	2	1	3.1	1.8	-1.3	0	0	0	0	0	0	0	0
1/2/2025 9:14	61503	EPET_T1	0	0	0	0	0	0	-0.98	-1.1	0	0	0	0	0	0
1/2/2025 9:16	45501	DERR_T2	1	2	1	0.4	0	-0.4	0.15	0.18	2	2	0	1800	1800	0
1/2/2025 9:16	53501	EVIL_T2	1	2	1	0.5	0.3	-0.2	-0.61	-0.57	1	1	0	600	600	0
1/2/2025 9:16	53502	EVIL_T2	1	1	0	2.9	1.8	-1.1	0	0	0	0	0	0	0	0
1/2/2025 9:19	55002	NEWP_T1	5	5	0	0.82	0.34	-0.48	0	0	0	0	0	0	0	0
1/2/2025 9:19	55001	NEWP_T1	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
1/2/2025 9:20	55002	NEWP_T1	5	5	0	0.82	0.34	-0.48	-0.18	-0.17	0	0	0	0	0	0
1/2/2025 9:20	55001	NEWP_T1	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/2/2025 9:21	55002	NEWP_T1	5	5	0	0.82	0.34	-0.48	-0.17	-0.18	0	0	0	0	0	0
1/2/2025 9:22	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
1/2/2025 9:22	24201	PROV_T3	7	12	5	0.91	0.6	-0.31	-1.47	-1.46	1	1	0	1200	1200	0
1/2/2025 9:22	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/2/2025 9:22	24204	PROV_T3	2	2	0	2.8	2.8	0	0	0	0	0	0	0	0	0
1/2/2025 9:23	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/2/2025 9:23	58202	NEWV_T1	0	0	0	0	0	0	-0.04	0.03	0	0	0	0	0	0
1/2/2025 9:23	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 9:24	14601	SWHI_T1	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
1/2/2025 9:24	14603	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/2/2025 9:25	29401	BELT_T1	8	1	-7	0.1	0.1	0	0	0	0	0	0	0	0	0
1/2/2025 9:25	29402	BELT_T1	4	2	-2	1.85	3.5	1.65	0	0	0	0	0	0	0	0
1/2/2025 9:26	10801	CHHI_T1	0	18	18	0	0.19	0.19	-1.16	-1.2	2	2	0	1500	1500	0
1/2/2025 9:26	10705	CATA_T2	0	0	0	0	0	0	-1.74	-1.75	2	2	0	1800	1800	0
1/2/2025 9:27	44502	HAMI_T2	1	1	0	2.2	2	-0.2	0	0	0	0	0	0	0	0
1/2/2025 9:27	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 9:28	44505	HAMI_T2	0	0	0	0	0	0	0.65	0.67	0	0	0	0	0	0
1/2/2025 9:28	44502	HAMI_T2	1	1	0	2.2	2	-0.2	0	0	0	0	0	0	0	0
1/2/2025 9:29	29401	BELT_T1	8	1	-7	0.1	0.1	0	0	0	0	0	0	0	0	0
1/2/2025 9:29	29402	BELT_T1	4	2	-2	1.85	3.5	1.65	0	0	0	0	0	0	0	0
1/2/2025 9:30	10705	CATA_T2	0	0	0	0	0	0	-0.87	-0.87	1	1	0	900	900	0
1/2/2025 9:30	44801	EDAN_T2	0	1	1	0	0.1	0.1	-0.29	-0.32	0	0	0	0	0	0
1/2/2025 9:31	44801	EDAN_T2	0	1	1	0	0.1	0.1	-0.29	-0.32	0	0	0	0	0	0
1/2/2025 9:31	63601	LETO_T1	5	5	0	0.68	0.32	-0.36	1.31	1.47	0	0	0	0	0	0
1/2/2025 9:31	26704	HEML_T2	0	0	0	0	0	0	-0.8	-0.78	1	1	0	1200	1200	0
1/2/2025 9:31	63501	HEID_TBK1-2	24	1	-23	0.19	0.2	0.01	-0.17	-0.21	1	1	0	900	900	0
1/2/2025 9:35	63501	HEID_TBK1-2	24	1	-23	0.19	0.2	0.01	-0.17	-0.21	1	1	0	900	900	0
1/2/2025 9:37	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
1/2/2025 9:38	13702	SCHN_T1	0	0	0	0	0	0	1.3	1.21	0	0	0	0	0	0
1/2/2025 9:41	25801	SUTR_T2	2	2	0	7.65	7.95	0.3	0.01	0.01	0	0	0	0	0	0
1/2/2025 9:42	16102	BING_T2	1	1	0	3.9	3.5	-0.4	0	0	0	0	0	0	0	0
1/2/2025 9:42	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
1/2/2025 9:42	54501	ENOL_T2	0	0	0	0	0	0	-0.53	-0.54	1	1	0	600	600	0
1/2/2025 9:42	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/2/2025 9:43	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/2/2025 9:43	54501	ENOL_T2	0	0	0	0	0	0	-0.53	-0.54	1	1	0	600	600	0
1/2/2025 9:43	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
1/2/2025 9:43	61001	DONV_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
1/2/2025 9:45	47203	FAXO_T2	1	1	0	0.4	0.2	-0.2	-1.7	-1.71	1	1	0	1200	1200	0
1/2/2025 9:46	17803	GILB_T2	7	24	17	0.11	0.17	0.06	0	0	0	0	0	0	0	0
1/2/2025 9:46	52401	GRPA_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
1/2/2025 9:46	52402	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/2/2025 9:46	17805	GILB_T2	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
1/2/2025 9:46	52403	GRPA_T2	3	0	-3	0.13	0	-0.13	-0.06	-0.05	0	0	0	0	0	0
1/2/2025 9:46	17804	GILB_T2	1	0	-1	0.1	0	-0.1	0	-0.03	0	0	0	0	0	0
1/2/2025 9:49	40602	PIGR_T1	1	1	0	2.6	2.3	-0.3	0	0	0	0	0	0	0	0
1/2/2025 9:49	40601	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/2/2025 9:50	64101	REFR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/2/2025 9:51	40601	PIGR_T1	0	1	1	0	0.2	0.2	-0.12	-0.14	0	0	0	0	0	0
1/2/2025 9:51	40602	PIGR_T1	1	1	0	2.6	2.3	-0.3	0	0	0	0	0	0	0	0
1/2/2025 9:51	64101	REFR_T1	0	2	2	0	0.1	0.1	-0.01	-0.03	0	0	0	0	0	0
1/2/2025 9:52	40602	PIGR_T1	1	1	0	2.6	2.3	-0.3	0	0	0	0	0	0	0	0
1/2/2025 9:52	40601	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/2/2025 9:52	64101	REFR_T1	0	2	2	0	0.1	0.1	-0.06	-0.06	0	0	0	0	0	0
1/2/2025 9:53	40601	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/2/2025 9:53	64101	REFR_T1	0	2	2	0	0.1	0.1	-0.03	-0.03	0	0	0	0	0	0
1/2/2025 9:53	40602	PIGR_T1	1	1	0	2.6	2.3	-0.3	0	0	0	0	0	0	0	0
1/2/2025 9:54	44901	SCOT_T2	0	0	0	0	0	0	0.18	0.07	0	0	0	0	0	0
1/2/2025 9:54	40602	PIGR_T1	1	1	0	2.6	2.3	-0.3	0	0	0	0	0	0	0	0
1/2/2025 9:54	64101	REFR_T1	0	2	2	0	0.1	0.1	-0.09	-0.09	0	0	0	0	0	0
1/2/2025 9:54	40601	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/2/2025 9:55	64101	REFR_T1	0	2	2	0	0.1	0.1	-0.03	-0.03	0	0	0	0	0	0
1/2/2025 9:56	54601	SUMM_T2	5	6	1	0.58	0.52	-0.06	-1.84	-1.85	2	2	0	2100	2100	0
1/2/2025 10:02	11507	FREE_T2	0	0	0	0	0	0	0.39	0.31	0	0	0	0	0	0
1/2/2025 10:03	40602	PIGR_T1	1	1	0	2.6	2.3	-0.3	-0.55	-0.57	1	1	0	600	600	0
1/2/2025 10:03	40601	PIGR_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/2/2025 10:04	58102	NEKI_T1	1	1	0	0.8	0.9	0.1	0.21	0.18	0	0	0	0	0	0
1/2/2025 10:05	64801	MONE_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/2/2025 10:05	41902	REED_T1	0	1	1	0	0	0	2.47	2.49	0	0	0	0	0	0
1/2/2025 10:05	64904	MILL_T1	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
1/2/2025 10:05	64802	MONE_T2	2	2	0	0.2	0.2	0	0.41	0.52	0	0	0	0	0	0
1/2/2025 10:06	64802	MONE_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/2/2025 10:06	64801	MONE_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/2/2025 10:07	55002	NEWP_T1	2	7	5	0.15	0.34	0.19	-0.18	-0.17	0	0	0	0	0	0
1/2/2025 10:09	49803	UNIV_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
1/2/2025 10:09	49804	UNIV_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
1/2/2025 10:12	46004	BERW_T2	0	0	0	0	0	0	-0.7	-0.66	0	0	0	0	0	0
1/2/2025 10:14	14204	EALL_T2	0	0	0	0	0	0	-0.05	0.09	0	0	0	0	0	0
1/2/2025 10:14	17401	FOHI_T1	0	0	0	0	0	0	-1.03	-1.03	0	0	0	0	0	0
1/2/2025 10:15	40101	HUNT_T2	428	431	3	1.02	0.98	-0.04	-1.03	-1.04	0	0	0	0	0	0
1/2/2025 10:17	52401	GRPA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
1/2/2025 10:17	52402	GRPA_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
1/2/2025 10:17	52404	GRPA_T2	0	0	0	0	0	0	0.45	0.61	0	0	0	0	0	0
1/2/2025 10:18	40101	HUNT_T2	428	431	3	1.02	0.98	-0.04	-1.03	-1.04	0	0	0	0	0	0
1/2/2025 10:19	40101	HUNT_T2	428	431	3	1.02	0.98	-0.04	-1.03	-1.04	0	0	0	0	0	0
1/2/2025 10:20	54202	PENN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/2/2025 10:20	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 10:21	41902	REED_T1	0	1	1	0	0	0	1.25	1.2	0	0	0	0	0	0
1/2/2025 10:23	55002	NEWP_T1	7	6	-1	0.33	0.4	0.07	-0.17	-0.19	0	0	0	0	0	0
1/2/2025 10:24	54601	SUMM_T2	6	6	0	0.52	0.43	-0.09	0	0	0	0	0	0	0	0
1/2/2025 10:24	50505	MECH_T1	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
1/2/2025 10:24	50504	MECH_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/2/2025 10:24	54603	SUMM_T2	0	0	0	0	0	0	-0.72	-0.72	2	2	0	1800	1800	0
1/2/2025 10:24	50501	MECH_T1	4	4	0	1.23	1.03	-0.2	0	0	0	0	0	0	0	0
1/2/2025 10:24	50502	MECH_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
1/2/2025 10:25	60801	BUCK_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
1/2/2025 10:26	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 10:26	10805	CHHI_T2	1	1	0	7.1	7	-0.1	-0.57	-0.73	1	1	0	600	600	0
1/2/2025 10:27	53502	EVIL_T2	1	1	0	2.7	1.7	-1	0	0	0	0	0	0	0	0
1/2/2025 10:27	53501	EVIL_T2	2	1	-1	0.25	0.5	0.25	-0.67	-0.61	1	1	0	600	600	0
1/2/2025 10:28	53502	EVIL_T2	1	1	0	2.7	1.7	-1	0	0	0	0	0	0	0	0
1/2/2025 10:28	60801	BUCK_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
1/2/2025 10:28	46206	DANV_T2	0	0	0	0	0	0	1.88	1.87	2	2	0	2100	2100	0
1/2/2025 10:28	53501	EVIL_T2	2	1	-1	0.25	0.5	0.25	-0.67	-0.61	1	1	0	600	600	0
1/2/2025 10:29	53502	EVIL_T2	1	1	0	2.7	1.7	-1	0	0	0	0	0	0	0	0
1/2/2025 10:29	53501	EVIL_T2	2	1	-1	0.25	0.5	0.25	-0.67	-0.61	1	1	0	600	600	0
1/2/2025 10:30	23401	HONE_T2	1	1	0	0.1	0.2	0.1	0.52	0.52	0	0	0	0	0	0
1/2/2025 10:30	46206	DANV_T2	0	0	0	0	0	0	1.88	1.87	2	2	0	2100	2100	0
1/2/2025 10:31	46206	DANV_T2	0	0	0	0	0	0	1.88	1.87	2	2	0	2100	2100	0
1/2/2025 10:31	53502	EVIL_T2	1	1	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
1/2/2025 10:31	53501	EVIL_T2	1	2	1	0.5	0.25	-0.25	-1.34	-1.22	2	2	0	1200	1200	0
1/2/2025 10:32	23403	HONE_T1	0	16	16	0	0.12	0.12	-0.71	-0.73	0	0	0	0	0	0
1/2/2025 10:32	23404	HONE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/2/2025 10:33	64204	KINZ_T1	19	11	-8	0.49	0.26	-0.23	0	0	0	0	0	0	0	0
1/2/2025 10:33	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/2/2025 10:33	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 10:34	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
1/2/2025 10:36	17002	RIRO_T2	23	56	33	0.2	0.28	0.08	0.66	0.66	0	0	0	0	0	0
1/2/2025 10:36	67106	SPRI_T2	0	0	0	0	0	0	-1.25	-1.24	1	1	0	900	900	0
1/2/2025 10:37	66505	SMAN_T2	0	0	0	0	0	0	-0.05	-0.04	1	1	0	900	900	0
1/2/2025 10:37	66501	SMAN_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
1/2/2025 10:37	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/2/2025 10:40	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/2/2025 10:40	66501	SMAN_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
1/2/2025 10:41	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/2/2025 10:41	66505	SMAN_T2	0	0	0	0	0	0	-0.05	-0.04	1	1	0	900	900	0
1/2/2025 10:41	67402	WAKE_T2	0	0	0	0	0	0	0.5	0.49	1	1	0	600	600	0
1/2/2025 10:41	66501	SMAN_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
1/2/2025 10:42	10801	CHHI_T1	2	1	-1	0.55	1.1	0.55	-1.22	-1.18	2	2	0	1500	1500	0
1/2/2025 10:48	10801	CHHI_T1	1	3	2	1.1	0.43	-0.67	-1.22	-1.18	2	2	0	1500	1500	0
1/2/2025 10:50	57201	ROSS_T1	0	0	0	0	0	0	-1.42	-1.39	0	0	0	0	0	0
1/2/2025 10:52	43802	SWIL_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 10:52	43801	SWIL_T1	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
1/2/2025 10:54	46004	BERW_T2	0	1	1	0	0	0	-0.68	-0.65	0	0	0	0	0	0
1/2/2025 10:55	44301	BEAV_T2	4	2	-2	0.93	1.4	0.47	0	0	0	0	0	0	0	0
1/2/2025 10:55	44302	BEAV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/2/2025 10:56	10705	CATA_T2	1	1	0	0.5	0.8	0.3	-0.84	-0.86	1	1	0	900	900	0
1/2/2025 10:56	10703	CATA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/2/2025 10:57	46203	DANV_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
1/2/2025 10:59	46203	DANV_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
1/2/2025 10:59	24105	EHAZ_T1	4	4	0	7.18	7.25	0.07	0	0	0	0	0	0	0	0
1/2/2025 10:59	24101	EHAZ_T1	43	48	5	1.19	1.32	0.13	0	0	0	0	0	0	0	0
1/2/2025 10:59	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 10:59	24102	EHAZ_T1	1	2	1	0.1	0.2	0.1	0.09	-0.01	0	0	0	0	0	0
1/2/2025 10:59	24103	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 11:00	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 11:01	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 11:03	65503	MOJO_T2	0	15	15	0	0.14	0.14	-0.93	-0.97	1	1	0	900	900	0
1/2/2025 11:03	65502	MOJO_T2	0	178	178	0	0.11	0.11	0	0	0	0	0	0	0	0
1/2/2025 11:04	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 11:05	65503	MOJO_T2	0	15	15	0	0.14	0.14	-0.93	-0.97	1	1	0	900	900	0
1/2/2025 11:05	65502	MOJO_T2	0	178	178	0	0.11	0.11	0	0	0	0	0	0	0	0
1/2/2025 11:06	65502	MOJO_T2	0	178	178	0	0.11	0.11	0	0	0	0	0	0	0	0
1/2/2025 11:06	65503	MOJO_T2	0	15	15	0	0.14	0.14	0	0	0	0	0	0	0	0
1/2/2025 11:07	64101	REFR_T1	2	0	-2	0.2	0	-0.2	-0.03	-0.03	0	0	0	0	0	0
1/2/2025 11:08	66501	SMAN_T2	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
1/2/2025 11:08	66502	SMAN_T2	1	9	8	0.1	0.28	0.18	0	0	0	0	0	0	0	0
1/2/2025 11:08	66504	SMAN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
1/2/2025 11:09	66504	SMAN_T2	0	2	2	0	0.45	0.45	-0.42	-0.46	0	0	0	0	0	0
1/2/2025 11:09	66502	SMAN_T2	1	9	8	0.1	0.28	0.18	0	0	0	0	0	0	0	0
1/2/2025 11:09	64101	REFR_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/2/2025 11:09	66501	SMAN_T2	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
1/2/2025 11:10	66502	SMAN_T2	1	9	8	0.1	0.28	0.18	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/2/2025 11:10	66504	SMAN_T2	0	2	2	0	0.45	0.45	-0.42	-0.46	0	0	0	0	0	0
1/2/2025 11:10	66501	SMAN_T2	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
1/2/2025 11:12	66501	SMAN_T2	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
1/2/2025 11:12	66504	SMAN_T2	0	2	2	0	0.45	0.45	-0.42	-0.46	0	0	0	0	0	0
1/2/2025 11:12	66502	SMAN_T2	1	9	8	0.1	0.28	0.18	0	0	0	0	0	0	0	0
1/2/2025 11:16	20601	GRWO_T2	4	4	0	1.35	0.93	-0.42	0	0	0	0	0	0	0	0
1/2/2025 11:16	63501	HEID_TBK1-2	46	50	4	0.55	0.57	0.02	-0.14	-0.13	1	1	0	900	900	0
1/2/2025 11:16	20603	GRWO_T2	1	3	2	0.1	0	-0.1	0.39	0.44	0	0	0	0	0	0
1/2/2025 11:17	63501	HEID_TBK1-2	46	50	4	0.55	0.57	0.02	-0.14	-0.13	1	1	0	900	900	0
1/2/2025 11:20	63501	HEID_TBK1-2	46	50	4	0.55	0.57	0.02	-0.14	-0.13	1	1	0	900	900	0
1/2/2025 11:21	66501	SMAN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
1/2/2025 11:21	66504	SMAN_T2	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
1/2/2025 11:21	66503	SMAN_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/2/2025 11:21	66502	SMAN_T2	5	9	4	0.16	0.28	0.12	0.53	0.52	0	0	0	0	0	0
1/2/2025 11:28	60904	DONG_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
1/2/2025 11:28	60902	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/2/2025 11:28	60901	DONG_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
1/2/2025 11:30	64305	LINC_T1	1	1	0	0.1	0.7	0.6	-0.16	-0.25	0	0	0	0	0	0
1/2/2025 11:30	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/2/2025 11:30	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
1/2/2025 11:30	54504	ENOL_T2	0	1	1	0	0.1	0.1	-0.98	-1.01	1	1	0	600	600	0
1/2/2025 11:31	24101	EHAZ_T1	55	55	0	1.5	0.71	-0.79	0	0	0	0	0	0	0	0
1/2/2025 11:31	17802	GILB_T1	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
1/2/2025 11:31	24105	EHAZ_T1	4	4	0	7.25	7.13	-0.12	0	0	0	0	0	0	0	0
1/2/2025 11:31	60904	DONG_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
1/2/2025 11:31	24103	EHAZ_T1	0	0	0	0	0	0	-0.17	-0.33	0	0	0	0	0	0
1/2/2025 11:31	24102	EHAZ_T1	2	7	5	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
1/2/2025 11:31	60901	DONG_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/2/2025 11:31	60902	DONG_T2	1	0	-1	0.2	0	-0.2	0.72	0.77	0	0	0	0	0	0
1/2/2025 11:36	66504	SMAN_T2	2	3	1	0.35	0.2	-0.15	-0.93	-0.84	0	0	0	0	0	0
1/2/2025 11:36	66505	SMAN_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
1/2/2025 11:36	66501	SMAN_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
1/2/2025 11:36	66502	SMAN_T2	9	7	-2	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
1/2/2025 11:37	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
1/2/2025 11:39	66504	SMAN_T2	2	3	1	0.35	0.2	-0.15	-0.42	-0.46	0	0	0	0	0	0
1/2/2025 11:39	66505	SMAN_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
1/2/2025 11:39	66501	SMAN_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
1/2/2025 11:39	66502	SMAN_T2	9	7	-2	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
1/2/2025 11:46	54203	PENN_T1	20	18	-2	0.99	1.14	0.15	0.02	0.01	0	0	0	0	0	0
1/2/2025 11:46	46602	LAOR_T1	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
1/2/2025 11:46	54201	PENN_T1	7	8	1	0.81	0.8	-0.01	0	0	0	0	0	0	0	0
1/2/2025 11:49	60605	NCOL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/2/2025 11:49	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 11:50	52501	PROG_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/2/2025 11:51	52501	PROG_T1	1	0	-1	0.2	0	-0.2	-0.45	-0.44	0	0	0	0	0	0
1/2/2025 11:51	66502	SMAN_T2	7	6	-1	0.21	0.3	0.09	0	0	0	0	0	0	0	0
1/2/2025 11:51	66505	SMAN_T2	0	4	4	0	0.43	0.43	0	0	0	0	0	0	0	0
1/2/2025 11:51	66504	SMAN_T2	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/2/2025 11:51	66501	SMAN_T2	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
1/2/2025 11:51	66503	SMAN_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
1/2/2025 11:55	63602	LETO_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/2/2025 11:55	44902	SCOT_T2	0	0	0	0	0	0	-0.88	-0.88	0	0	0	0	0	0
1/2/2025 11:55	63601	LETO_T1	6	5	-1	0.95	0.5	-0.45	1.45	1.6	0	0	0	0	0	0
1/2/2025 11:55	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
1/2/2025 11:58	52402	GRPA_T2	5	5	0	0.5	0.68	0.18	0	0	0	0	0	0	0	0
1/2/2025 11:58	52403	GRPA_T2	4	22	18	0.43	0.58	0.15	-0.06	-0.06	0	0	0	0	0	0
1/2/2025 11:58	52401	GRPA_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
1/2/2025 12:00	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 12:00	64203	KINZ_T1	0	0	0	0	0	0	-0.26	-0.22	2	2	0	1800	1800	0
1/2/2025 12:00	64202	KINZ_T1	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
1/2/2025 12:00	64204	KINZ_T1	2	4	2	0.4	0.6	0.2	0	0	0	0	0	0	0	0
1/2/2025 12:01	45802	HEGI_T2	1	9	8	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/2/2025 12:02	23403	HONE_T1	79	114	35	0.17	0.21	0.04	0	0	0	0	0	0	0	0
1/2/2025 12:02	23404	HONE_T1	23	53	30	0.14	0.18	0.04	0	0	0	0	0	0	0	0
1/2/2025 12:08	10805	CHHI_T2	1	1	0	7.5	7.5	0	-0.79	-0.79	1	1	0	600	600	0
1/2/2025 12:09	42701	AUGU_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
1/2/2025 12:13	64305	LINC_T1	1	2	1	0.7	0.5	-0.2	-0.31	-0.32	0	0	0	0	0	0
1/2/2025 12:13	42701	AUGU_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
1/2/2025 12:14	61504	EPET_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
1/2/2025 12:14	61505	EPET_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
1/2/2025 12:16	63804	HEMP_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
1/2/2025 12:16	63801	HEMP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/2/2025 12:16	63802	HEMP_T1	0	0	0	0	0	0	0.53	0.42	0	0	0	0	0	0
1/2/2025 12:16	63803	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/2/2025 12:20	64202	KINZ_T1	2	3	1	0.2	0.37	0.17	0.79	0.81	0	0	0	0	0	0
1/2/2025 12:20	64204	KINZ_T1	3	16	13	0.5	0.29	-0.21	0	0	0	0	0	0	0	0
1/2/2025 12:20	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 12:20	63501	HEID_TBK1-2	37	3	-34	0.24	0.1	-0.14	-0.09	-0.28	1	1	0	900	900	0
1/2/2025 12:22	55002	NEWP_T1	5	4	-1	0.52	0.35	-0.17	-0.17	-0.18	0	0	0	0	0	0
1/2/2025 12:22	58102	NEKI_T1	1	1	0	1	0.9	-0.1	0.27	0.29	0	0	0	0	0	0
1/2/2025 12:23	55002	NEWP_T1	5	4	-1	0.52	0.35	-0.17	-0.17	-0.18	0	0	0	0	0	0
1/2/2025 12:24	55002	NEWP_T1	5	4	-1	0.52	0.35	-0.17	-0.17	-0.18	0	0	0	0	0	0
1/2/2025 12:24	13704	SCHN_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
1/2/2025 12:40	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 12:45	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
1/2/2025 12:46	20601	GRWO_T2	4	7	3	1.1	0.78	-0.32	0.58	0.54	0	0	0	0	0	0
1/2/2025 12:55	66901	SHIL_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
1/2/2025 12:55	66902	SHIL_T2	0	0	0	0	0	0	-1.9	-1.88	0	0	0	0	0	0
1/2/2025 12:57	67402	WAKE_T2	0	0	0	0	0	0	0.52	0.53	1	1	0	600	600	0
1/2/2025 13:01	62102	ELAN_T1	0	0	0	0	0	0	0.92	0.7	0	0	0	0	0	0
1/2/2025 13:04	26703	HEML_T1	0	0	0	0	0	0	-0.78	-0.75	1	1	0	600	600	0
1/2/2025 13:04	22602	KIMB_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
1/2/2025 13:10	67402	WAKE_T2	0	0	0	0	0	0	0.53	0.5	1	1	0	600	600	0
1/2/2025 13:10	59101	WALK_T2	0	0	0	0	0	0	1.16	1.01	1	1	0	600	600	0
1/2/2025 13:11	55103	WERT_T1	1	1	0	1	4.4	3.4	0	0	0	0	0	0	0	0
1/2/2025 13:11	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 13:12	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 13:18	58401	MORO_T1	0	0	0	0	0	0	-0.95	-0.9	1	1	0	600	600	0
1/2/2025 13:20	58401	MORO_T1	0	0	0	0	0	0	-0.95	-0.9	1	1	0	600	600	0
1/2/2025 13:26	44902	SCOT_T2	0	0	0	0	0	0	-0.94	-0.92	0	0	0	0	0	0
1/2/2025 13:40	46001	BERW_T1	0	0	0	0	0	0	1.03	1.02	0	0	0	0	0	0
1/2/2025 13:52	24202	PROV_T4	0	0	0	0	0	0	-0.73	-0.72	1	1	0	1200	1200	0
1/2/2025 13:53	40301	TAMA_T3	2	4	2	1.9	0.1	-1.8	0	0	0	0	0	0	0	0
1/2/2025 13:53	40302	TAMA_T3	4	9	5	0.28	0.39	0.11	0	0	0	0	0	0	0	0
1/2/2025 13:54	40301	TAMA_T3	2	4	2	1.9	0.1	-1.8	0	0	0	0	0	0	0	0
1/2/2025 13:54	40302	TAMA_T3	4	9	5	0.28	0.39	0.11	0.43	0.42	0	0	0	0	0	0
1/2/2025 13:58	45501	DERR_T2	0	0	0	0	0	0	0.19	0.19	2	2	0	1800	1800	0
1/2/2025 13:59	40802	EXCH_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
1/2/2025 13:59	40801	EXCH_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/2/2025 14:02	40802	EXCH_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
1/2/2025 14:02	40801	EXCH_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
1/2/2025 14:13	53502	EVIL_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
1/2/2025 14:13	53501	EVIL_T2	1	2	1	1.1	1.1	0	0	0	0	0	0	0	0	0
1/2/2025 14:21	17802	GILB_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
1/2/2025 14:24	11507	FREE_T2	2	4	2	0.4	0.4	0	0.65	0.64	0	0	0	0	0	0
1/2/2025 14:26	43304	WATS_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 14:37	58203	NEWV_T2	1	1	0	4.8	4.2	-0.6	-1.17	-1.19	0	0	0	0	0	0
1/2/2025 14:38	53101	WTWN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/2/2025 14:38	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 14:42	61305	EARL_T1	0	0	0	0	0	0	-0.01	0.09	2	2	0	1500	1500	0
1/2/2025 14:43	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 14:43	53101	WTWN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/2/2025 14:48	58202	NEWV_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
1/2/2025 14:49	23403	HONE_T1	0	1	1	0	0.1	0.1	-0.67	-0.6	0	0	0	0	0	0
1/2/2025 14:50	23401	HONE_T2	3	3	0	0.4	0	-0.4	0.51	0.42	0	0	0	0	0	0
1/2/2025 15:00	62104	ELAN_T1	0	0	0	0	0	0	0.86	0.9	2	2	0	1500	1500	0
1/2/2025 15:01	62105	ELAN_T1	0	0	0	0	0	0	0.45	0.5	0	0	0	0	0	0
1/2/2025 15:01	62104	ELAN_T1	0	0	0	0	0	0	0.86	0.9	2	2	0	1500	1500	0
1/2/2025 15:03	62104	ELAN_T1	0	0	0	0	0	0	0.86	0.9	2	2	0	1500	1500	0
1/2/2025 15:03	47802	MOCA_T2	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
1/2/2025 15:04	62106	ELAN_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
1/2/2025 15:11	42501	ALTA_T2	0	0	0	0	0	0	0.04	0.05	1	1	0	600	600	0
1/2/2025 15:11	42504	ALTA_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
1/2/2025 15:24	13704	SCHN_T2	0	0	0	0	0	0	-0.34	-0.27	0	0	0	0	0	0
1/2/2025 15:41	29402	BELT_T1	13	9	-4	0.67	0.83	0.16	0	0	0	0	0	0	0	0
1/2/2025 15:41	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	900	900	0
1/2/2025 18:30	24202	PROV_T4	4	5	1	0.1	0.14	0.04	-0.73	-0.74	1	1	0	1200	1200	0
1/2/2025 18:30	24206	PROV_T4	1	1	0	2.4	0	-2.4	0	0	0	0	0	0	0	0
1/2/2025 18:31	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/2/2025 18:31	55002	NEWP_T1	4	4	0	0.7	0.7	0	-0.19	-0.18	0	0	0	0	0	0
1/2/2025 18:34	17802	GILB_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
1/2/2025 18:35	63501	HEID_TBK1-2	23	33	10	0.19	0.34	0.15	0	0	0	0	0	0	0	0
1/2/2025 18:35	53501	EVIL_T2	0	1	1	0	0.4	0.4	-0.81	-0.74	1	1	0	600	600	0
1/2/2025 18:36	55002	NEWP_T1	4	4	0	0.7	0.7	0	-0.36	-0.36	0	0	0	0	0	0
1/2/2025 18:36	10705	CATA_T2	0	0	0	0	0	0	-1.66	-1.61	2	2	0	1800	1800	0
1/2/2025 18:36	29402	BELT_T1	4	1	-3	1.48	5	3.52	0	0	0	0	0	0	0	0
1/2/2025 18:36	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/2/2025 18:36	52501	PROG_T1	0	21	21	0	0.1	0.1	-0.43	-0.45	0	0	0	0	0	0
1/2/2025 18:36	53501	EVIL_T2	0	1	1	0	0.4	0.4	-0.74	-0.9	1	1	0	600	600	0
1/2/2025 18:36	47203	FAXO_T2	1	1	0	0.1	0.1	0	-1.7	-1.71	1	1	0	1200	1200	0
1/2/2025 18:37	25801	SUTR_T2	2	2	0	8.5	8.8	0.3	-0.54	-0.55	0	0	0	0	0	0
1/2/2025 18:37	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/2/2025 18:37	55002	NEWP_T1	4	4	0	0.7	0.7	0	-0.18	-0.18	0	0	0	0	0	0
1/2/2025 18:38	50501	MECH_T1	4	4	0	0.58	0.75	0.17	0	0	0	0	0	0	0	0
1/2/2025 18:38	17802	GILB_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
1/2/2025 18:38	50502	MECH_T1	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
1/2/2025 18:38	50505	MECH_T1	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
1/2/2025 18:39	54201	PENN_T1	7	6	-1	0.5	0.32	-0.18	0	0	0	0	0	0	0	0
1/2/2025 18:39	58102	NEKI_T1	1	1	0	1.3	0.9	-0.4	0.34	0.28	0	0	0	0	0	0
1/2/2025 18:39	54203	PENN_T1	18	18	0	1.14	0.88	-0.26	0	-0.02	0	0	0	0	0	0
1/2/2025 18:39	54505	ENOL_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
1/2/2025 18:39	54501	ENOL_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	600	600	0
1/2/2025 18:40	26703	HEML_T1	0	0	0	0	0	0	-0.7	-0.71	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/2/2025 18:40	55002	NEWP_T1	4	4	0	0.7	0.7	0	-0.18	-0.18	0	0	0	0	0	0
1/2/2025 18:40	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/2/2025 18:40	66505	SMAN_T2	3	3	0	0.67	0.73	0.06	-0.46	-0.32	1	1	0	900	900	0
1/2/2025 18:41	53501	EVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/2/2025 18:41	66505	SMAN_T2	3	3	0	0.67	0.73	0.06	0	0	0	0	0	0	0	0
1/2/2025 18:41	17805	GILB_T2	0	0	0	0	0	0	0.26	0.31	0	0	0	0	0	0
1/2/2025 18:41	66504	SMAN_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
1/2/2025 18:41	65503	MOJO_T2	1	0	-1	0.1	0	-0.1	-0.21	-0.19	0	0	0	0	0	0
1/2/2025 18:42	17002	RIRO_T2	54	54	0	0.26	0.25	-0.01	0.41	0.39	0	0	0	0	0	0
1/2/2025 18:42	26704	HEML_T2	0	0	0	0	0	0	-0.82	-0.79	1	1	0	1200	1200	0
1/2/2025 18:42	64305	LINC_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
1/2/2025 18:42	10805	CHHI_T2	1	7	6	6.9	6.9	0	-1.02	-1.02	1	1	0	600	600	0
1/2/2025 18:42	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/2/2025 18:42	46002	BERW_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
1/2/2025 18:42	66505	SMAN_T2	3	3	0	0.67	0.73	0.06	0	0	0	0	0	0	0	0
1/2/2025 18:42	29402	BELT_T1	4	1	-3	1.48	5	3.52	0	0	0	0	0	0	0	0
1/2/2025 18:42	17805	GILB_T2	0	0	0	0	0	0	0.26	0.31	0	0	0	0	0	0
1/2/2025 18:42	63501	HEID_TBK1-2	23	33	10	0.19	0.34	0.15	-0.35	-0.39	1	1	0	900	900	0
1/2/2025 18:42	10705	CATA_T2	0	0	0	0	0	0	-0.83	-0.8	1	1	0	900	900	0
1/2/2025 18:42	46004	BERW_T2	1	10	9	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/2/2025 18:42	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:43	62105	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/2/2025 18:43	54505	ENOL_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
1/2/2025 18:43	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:43	40802	EXCH_T2	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
1/2/2025 18:43	54501	ENOL_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	600	600	0
1/2/2025 18:43	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/2/2025 18:43	63601	LETO_T1	0	0	0	0	0	0	0.74	0.96	1	1	0	900	900	0
1/2/2025 18:43	62104	ELAN_T1	0	0	0	0	0	0	0.87	0.83	2	2	0	1500	1500	0
1/2/2025 18:43	40602	PIGR_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
1/2/2025 18:43	54601	SUMM_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
1/2/2025 18:43	54603	SUMM_T2	0	0	0	0	0	0	-0.36	-0.32	1	1	0	900	900	0
1/2/2025 18:43	62101	ELAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/2/2025 18:43	40601	PIGR_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/2/2025 18:43	62106	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/2/2025 18:44	52501	PROG_T1	0	21	21	0	0.1	0.1	0	0	0	0	0	0	0	0
1/2/2025 18:44	17401	FOHI_T1	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
1/2/2025 18:44	52402	GRPA_T2	3	8	5	0.83	0.27	-0.56	0	0	0	0	0	0	0	0
1/2/2025 18:44	16302	ALPA_T2	0	0	0	0	0	0	-0.56	-0.68	0	0	0	0	0	0
1/2/2025 18:44	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	-0.18	-0.18	0	0	0	0	0	0
1/2/2025 18:44	63804	HEMP_T1	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
1/2/2025 18:44	66505	SMAN_T2	3	3	0	0.67	0.73	0.06	-0.46	-0.32	1	1	0	900	900	0
1/2/2025 18:44	47802	MOCA_T2	0	0	0	0	0	0	-0.91	-0.91	0	0	0	0	0	0
1/2/2025 18:44	63501	HEID_TBK1-2	23	33	10	0.19	0.34	0.15	-0.35	-0.39	1	1	0	900	900	0
1/2/2025 18:44	63802	HEMP_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
1/2/2025 18:44	54206	PENN_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
1/2/2025 18:44	44901	SCOT_T2	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
1/2/2025 18:45	43801	SWIL_T1	3	6	3	2.2	1.1	-1.1	0	0	0	0	0	0	0	0
1/2/2025 18:45	40601	PIGR_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/2/2025 18:45	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/2/2025 18:45	40602	PIGR_T1	1	2	1	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
1/2/2025 18:45	66504	SMAN_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
1/2/2025 18:45	40603	PIGR_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
1/2/2025 18:45	46001	BERW_T1	0	0	0	0	0	0	0.85	0.79	0	0	0	0	0	0
1/2/2025 18:45	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:45	66505	SMAN_T2	3	3	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/2/2025 18:45	63601	LETO_T1	0	0	0	0	0	0	0.74	0.96	1	1	0	900	900	0
1/2/2025 18:45	29402	BELT_T1	1	1	0	4.9	5.1	0.2	0	0	0	0	0	0	0	0
1/2/2025 18:46	66505	SMAN_T2	3	3	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/2/2025 18:46	10801	CHHI_T1	0	0	0	0	0	0	-2.7	-2.78	4	4	0	3000	3000	0
1/2/2025 18:46	66503	SMAN_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
1/2/2025 18:46	54505	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/2/2025 18:46	62101	ELAN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/2/2025 18:46	50502	MECH_T1	1	1	0	1.9	2.1	0.2	0	0	0	0	0	0	0	0
1/2/2025 18:46	50501	MECH_T1	4	4	0	0.58	0.75	0.17	0	0	0	0	0	0	0	0
1/2/2025 18:46	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/2/2025 18:46	45501	DERR_T2	0	1	1	0	0	0	0.24	0.33	2	2	0	1800	1800	0
1/2/2025 18:46	63501	HEID_TBK1-2	28	41	13	0.25	0.49	0.24	-0.35	-0.39	1	1	0	900	900	0
1/2/2025 18:46	45502	DERR_T2	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/2/2025 18:46	55001	NEWP_T1	0	0	0	0	0	0	-0.8	-0.84	1	1	0	600	600	0
1/2/2025 18:46	46004	BERW_T2	3	9	6	0.5	0.4	-0.1	-0.73	-0.67	0	0	0	0	0	0
1/2/2025 18:46	54504	ENOL_T2	0	0	0	0	0	0	-0.95	-0.97	1	1	0	600	600	0
1/2/2025 18:46	24101	EHAZ_T1	78	78	0	1.67	1.62	-0.05	0	0	0	0	0	0	0	0
1/2/2025 18:46	55002	NEWP_T1	4	3	-1	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
1/2/2025 18:46	50506	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:46	62104	ELAN_T1	0	0	0	0	0	0	0.87	0.83	2	2	0	1500	1500	0
1/2/2025 18:46	46602	LACR_T1	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
1/2/2025 18:46	24105	EHAZ_T1	5	8	3	4.76	5.78	1.02	0	0	0	0	0	0	0	0
1/2/2025 18:46	60801	BUCK_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
1/2/2025 18:46	24102	EHAZ_T1	38	38	0	0.52	0.58	0.06	0.87	0.88	0	0	0	0	0	0
1/2/2025 18:47	63501	HEID_TBK1-2	28	41	13	0.25	0.49	0.24	-0.35	-0.39	1	1	0	900	900	0
1/2/2025 18:47	46203	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:47	52402	GRPA_T2	3	7	4	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
1/2/2025 18:47	53501	EVIL_T2	0	2	2	0	0.35	0.35	-0.74	-0.9	1	1	0	600	600	0
1/2/2025 18:47	66505	SMAN_T2	3	3	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/2/2025 18:47	43304	WATS_T2	11	15	4	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
1/2/2025 18:47	66504	SMAN_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
1/2/2025 18:47	61503	EPET_T1	0	0	0	0	0	0	-1.01	-1.05	0	0	0	0	0	0
1/2/2025 18:47	60801	BUCK_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
1/2/2025 18:47	54603	SUMM_T2	0	0	0	0	0	0	-0.36	-0.32	1	1	0	900	900	0
1/2/2025 18:47	54601	SUMM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/2/2025 18:47	52403	GRPA_T2	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
1/2/2025 18:47	65503	MOJO_T2	0	1	1	0	0.1	0.1	-0.21	-0.19	0	0	0	0	0	0
1/2/2025 18:47	46206	DANV_T2	1	0	-1	0.2	0	-0.2	1.92	1.91	2	2	0	2100	2100	0
1/2/2025 18:47	65502	MOJO_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
1/2/2025 18:48	64101	REFR_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
1/2/2025 18:48	66505	SMAN_T2	3	3	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/2/2025 18:48	40302	TAMA_T3	5	6	1	0.5	0.45	-0.05	0.38	0.31	0	0	0	0	0	0
1/2/2025 18:48	40602	PIGR_T1	1	2	1	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
1/2/2025 18:48	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:48	40603	PIGR_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
1/2/2025 18:48	45502	DERR_T2	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/2/2025 18:48	14204	EALL_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
1/2/2025 18:48	57201	ROSS_T1	4	7	3	0.1	0.13	0.03	-0.67	-0.65	0	0	0	0	0	0
1/2/2025 18:48	16103	BING_T2	3	3	0	1.6	1.57	-0.03	0	0	0	0	0	0	0	0
1/2/2025 18:48	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:48	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:48	45501	DERR_T2	0	1	1	0	0	0	0.24	0.33	2	2	0	1800	1800	0
1/2/2025 18:48	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:48	16102	BING_T2	1	1	0	4.9	4.2	-0.7	0	0	0	0	0	0	0	0
1/2/2025 18:48	40601	PIGR_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/2/2025 18:49	45502	DERR_T2	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/2/2025 18:49	46206	DANV_T2	1	0	-1	0.2	0	-0.2	1.92	1.91	2	2	0	2100	2100	0
1/2/2025 18:49	62105	ELAN_T1	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
1/2/2025 18:49	52402	GRPA_T2	3	7	4	0.27	0.15	-0.12	-0.89	-0.87	0	0	0	0	0	0
1/2/2025 18:49	61001	DONV_T1	0	0	0	0	0	0	-0.24	-0.21	0	0	0	0	0	0
1/2/2025 18:49	44501	HAMI_T2	2	7	5	0.1	0.13	0.03	0	0	0	0	0	0	0	0
1/2/2025 18:49	62101	ELAN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/2/2025 18:49	50502	MECH_T1	1	1	0	1.9	2.1	0.2	0	0	0	0	0	0	0	0
1/2/2025 18:49	23401	HONE_T2	4	40	36	0.6	0.8	0.2	0.16	0.18	0	0	0	0	0	0
1/2/2025 18:49	45501	DERR_T2	0	1	1	0	0	0	0.24	0.33	2	2	0	1800	1800	0
1/2/2025 18:49	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/2/2025 18:49	46203	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:49	50501	MECH_T1	4	4	0	0.58	0.75	0.17	0	0	0	0	0	0	0	0
1/2/2025 18:49	63501	HEID_TBK1-2	28	41	13	0.25	0.49	0.24	-0.35	-0.39	1	1	0	900	900	0
1/2/2025 18:49	63802	HEMP_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
1/2/2025 18:49	44502	HAMI_T2	1	1	0	2.9	3	0.1	0.04	0.03	0	0	0	0	0	0
1/2/2025 18:49	50506	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:49	60902	DONG_T2	0	0	0	0	0	0	0.58	0.52	0	0	0	0	0	0
1/2/2025 18:49	63804	HEMP_T1	1	1	0	6.4	6	-0.4	0	0	0	0	0	0	0	0
1/2/2025 18:50	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:50	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:50	64802	MONE_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
1/2/2025 18:50	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:50	62101	ELAN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/2/2025 18:50	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/2/2025 18:50	53501	EVIL_T2	0	2	2	0	0.35	0.35	-0.74	-0.9	1	1	0	600	600	0
1/2/2025 18:50	44501	HAMI_T2	2	7	5	0.1	0.13	0.03	0	0	0	0	0	0	0	0
1/2/2025 18:50	44502	HAMI_T2	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
1/2/2025 18:50	13702	SOHN_T1	0	0	0	0	0	0	0.7	0.69	0	0	0	0	0	0
1/2/2025 18:50	66505	SMAN_T2	3	3	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/2/2025 18:51	62101	ELAN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/2/2025 18:51	58401	MORO_T1	0	0	0	0	0	0	-0.87	-0.93	1	1	0	600	600	0
1/2/2025 18:51	24201	PROV_T3	1	1	0	7.9	7	-0.9	-1.32	-1.34	1	1	0	1200	1200	0
1/2/2025 18:51	58402	MORO_T1	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/2/2025 18:51	62104	ELAN_T1	0	0	0	0	0	0	0.87	0.83	2	2	0	1500	1500	0
1/2/2025 18:51	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/2/2025 18:51	20601	GRWO_T2	1	1	0	2.2	1.8	-0.4	0	0	0	0	0	0	0	0
1/2/2025 18:51	40602	PIGR_T1	1	2	1	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
1/2/2025 18:51	20603	GRWO_T2	9	9	0	0.21	0.2	-0.01	0.55	0.5	0	0	0	0	0	0
1/2/2025 18:51	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:51	40601	PIGR_T1	2	0	-2	0.1	0	-0.1	-0.05	-0.06	0	0	0	0	0	0
1/2/2025 18:51	40603	PIGR_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
1/2/2025 18:51	24204	PROV_T3	2	2	0	2.95	2.9	-0.05	0	0	0	0	0	0	0	0
1/2/2025 18:52	66901	SHIL_T2	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
1/2/2025 18:52	10705	CATA_T2	0	0	0	0	0	0	-0.8	-0.8	1	1	0	900	900	0
1/2/2025 18:52	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/2/2025 18:52	66902	SHIL_T2	0	0	0	0	0	0	-1.82	-1.86	0	0	0	0	0	0
1/2/2025 18:52	44505	HAMI_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
1/2/2025 18:52	62101	ELAN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/2/2025 18:52	44502	HAMI_T2	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
1/2/2025 18:52	62102	ELAN_T1	0	0	0	0	0	0	0.77	0.84	0	0	0	0	0	0
1/2/2025 18:52	14601	SWHI_T1	0	0	0	0	0	0	-0.7	-0.73	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/2/2025 18:52	10805	CHHI_T2	1	7	6	6.9	1.68	-5.22	-1.02	-1.04	1	1	0	600	600	0
1/2/2025 18:52	40603	PIGR_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
1/2/2025 18:52	64101	REFR_T1	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
1/2/2025 18:52	59101	WALK_T2	0	0	0	0	0	0	0.39	0.45	1	1	0	600	600	0
1/2/2025 18:52	44501	HAMI_T2	2	7	5	0.1	0.13	0.03	0	0	0	0	0	0	0	0
1/2/2025 18:52	40602	PIGR_T1	1	2	1	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
1/2/2025 18:52	10801	CHHI_T1	0	0	0	0	0	0	-1.39	-1.37	2	2	0	1500	1500	0
1/2/2025 18:52	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:52	40101	HUNT_T2	105	155	50	0.83	0.79	-0.04	-1.65	-1.68	0	0	0	0	0	0
1/2/2025 18:52	40601	PIGR_T1	2	0	-2	0.1	0	-0.1	-0.06	-0.06	0	0	0	0	0	0
1/2/2025 18:53	53101	WTWN_T1	2	1	-1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
1/2/2025 18:53	52403	GRPA_T2	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
1/2/2025 18:53	52402	GRPA_T2	3	7	4	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
1/2/2025 18:53	40302	TAMA_T3	5	6	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
1/2/2025 18:53	64101	REFR_T1	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
1/2/2025 18:53	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:53	52101	MEIS_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/2/2025 18:53	52102	MEIS_T1	2	0	-2	0.1	0	-0.1	0	0	1	1	0	450	450	0
1/2/2025 18:53	57201	ROSS_T1	4	7	3	0.1	0.13	0.03	-0.65	-0.68	0	0	0	0	0	0
1/2/2025 18:53	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:53	42701	AUGU_T1	4	4	0	0.65	0.3	-0.35	0	0	0	0	0	0	0	0
1/2/2025 18:54	46206	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/2/2025 18:54	46203	DANV_T2	0	2	2	0	0	0	-0.37	-0.39	0	0	0	0	0	0
1/2/2025 18:54	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:54	64204	KINZ_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/2/2025 18:54	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
1/2/2025 18:55	53501	EVIL_T2	0	2	2	0	0.35	0.35	-0.9	-0.9	1	1	0	600	600	0
1/2/2025 18:55	44302	BEAV_T2	87	50	-37	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
1/2/2025 18:55	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:55	44301	BEAV_T2	6	3	-3	0.42	0.93	0.51	0	0	0	0	0	0	0	0
1/2/2025 18:55	40602	PIGR_T1	1	2	1	1.9	1.8	-0.1	-1.07	-1.11	1	1	0	600	600	0
1/2/2025 18:55	66503	SMAN_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
1/2/2025 18:55	66505	SMAN_T2	3	3	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/2/2025 18:55	40603	PIGR_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
1/2/2025 18:55	40601	PIGR_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/2/2025 18:55	44902	SCOT_T2	0	0	0	0	0	0	-0.89	-0.95	0	0	0	0	0	0
1/2/2025 18:56	42501	ALTA_T2	0	0	0	0	0	0	0.04	0.02	1	1	0	600	600	0
1/2/2025 18:56	64101	REFR_T1	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
1/2/2025 18:56	66505	SMAN_T2	3	3	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/2/2025 18:56	42504	ALTA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/2/2025 18:56	67402	WAKE_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
1/2/2025 18:56	64802	MONE_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
1/2/2025 18:56	44902	SCOT_T2	0	0	0	0	0	0	-0.89	-0.95	0	0	0	0	0	0
1/2/2025 18:56	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
1/2/2025 18:56	41902	REED_T1	1	4	3	0.6	0.2	-0.4	0.31	0.26	1	1	0	900	900	0
1/2/2025 18:56	23403	HONE_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/2/2025 18:56	46004	BERW_T2	3	9	6	0.5	0.4	-0.1	-0.67	-0.72	0	0	0	0	0	0
1/2/2025 18:56	41901	REED_T1	6	6	0	0.33	0.33	0	0	0	0	0	0	0	0	0
1/2/2025 18:56	66504	SMAN_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
1/2/2025 18:57	43304	WATS_T2	11	15	4	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
1/2/2025 18:57	58401	MORO_T1	0	0	0	0	0	0	-0.87	-0.93	1	1	0	600	600	0
1/2/2025 18:57	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:57	54601	SUMM_T2	1	0	-1	0.1	0	-0.1	-1.77	-1.78	2	2	0	2100	2100	0
1/2/2025 18:57	23401	HONE_T2	4	40	36	0.6	0.8	0.2	0.18	0.17	0	0	0	0	0	0
1/2/2025 18:57	44801	EDAN_T2	1	3	2	1.5	0.9	-0.6	-0.38	-0.34	0	0	0	0	0	0
1/2/2025 18:57	42701	AUGU_T1	4	4	0	0.65	0.3	-0.35	0	0	0	0	0	0	0	0
1/2/2025 18:57	58402	MORO_T1	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/2/2025 18:58	66505	SMAN_T2	3	3	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/2/2025 18:58	44801	EDAN_T2	1	3	2	1.5	0.9	-0.6	-0.38	-0.34	0	0	0	0	0	0
1/2/2025 18:58	44905	SCOT_T1	2	13	11	0.85	0.46	-0.39	0	0	0	0	0	0	0	0
1/2/2025 18:58	66502	SMAN_T2	0	0	0	0	0	0	-0.13	-0.05	0	0	0	0	0	0
1/2/2025 18:59	60902	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 18:59	64101	REFR_T1	0	0	0	0	0	0	0.21	0.09	0	0	0	0	0	0
1/2/2025 18:59	53501	EVIL_T2	0	2	2	0	0.35	0.35	-0.9	-0.9	1	1	0	600	600	0
1/2/2025 18:59	64202	KINZ_T1	0	0	0	0	0	0	0.53	0.57	0	0	0	0	0	0
1/2/2025 18:59	64204	KINZ_T1	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/2/2025 18:59	58203	NEWV_T2	1	1	0	4.5	4.6	0.1	-1.14	-1.14	0	0	0	0	0	0
1/2/2025 18:59	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 19:00	44502	HAMI_T2	1	2	1	3	3	0	0	0	0	0	0	0	0	0
1/2/2025 19:00	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 19:00	13702	SCHN_T1	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
1/2/2025 19:00	64204	KINZ_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
1/2/2025 19:00	49803	UNIV_T1	1	1	0	7	6.6	-0.4	0	0	0	0	0	0	0	0
1/2/2025 19:00	46206	DANV_T2	0	0	0	0	0	0	1.91	1.95	2	2	0	2100	2100	0
1/2/2025 19:00	67402	WAKE_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
1/2/2025 19:00	44501	HAMI_T2	7	1	-6	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
1/2/2025 19:00	64101	REFR_T1	0	0	0	0	0	0	0.21	0.09	0	0	0	0	0	0
1/2/2025 19:00	41901	REED_T1	4	6	2	0.23	0.33	0.1	0	0	0	0	0	0	0	0
1/2/2025 19:00	46203	DANV_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/2/2025 19:00	41902	REED_T1	1	4	3	0.5	0	-0.5	0.31	0.26	1	1	0	900	900	0
1/2/2025 19:00	49804	UNIV_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
1/2/2025 19:00	44505	HAMI_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
1/2/2025 19:00	64203	KINZ_T1	0	0	0	0	0	0	-0.27	-0.27	1	1	0	600	600	0
1/2/2025 19:01	40802	EXCH_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
1/2/2025 19:01	66504	SMAN_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
1/2/2025 19:01	20603	GRWO_T2	8	11	3	0.21	0.24	0.03	0	0	0	0	0	0	0	0
1/2/2025 19:01	66505	SMAN_T2	3	3	0	0.6	0.97	0.37	0	0	0	0	0	0	0	0
1/2/2025 19:01	40801	EXCH_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/2/2025 19:01	20601	GRWO_T2	1	1	0	1.8	2.1	0.3	-0.06	-0.04	0	0	0	0	0	0
1/2/2025 19:01	45802	HEGI_T2	45	48	3	1.59	2.21	0.62	0	0	0	0	0	0	0	0
1/2/2025 19:01	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 19:02	55002	NEWP_T1	3	4	1	0.53	0.38	-0.15	0	0	0	0	0	0	0	0
1/2/2025 19:02	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 19:02	55001	NEWP_T1	0	0	0	0	0	0	-0.84	-0.83	1	1	0	600	600	0
1/2/2025 19:02	63501	HEID_TBK1-2	31	45	14	0.35	0.48	0.13	-0.39	-0.45	1	1	0	900	900	0
1/2/2025 19:02	46203	DANV_T2	2	0	-2	0.2	0	-0.2	-0.37	-0.39	0	0	0	0	0	0
1/2/2025 19:03	67106	SPRI_T2	0	0	0	0	0	0	-1.23	-1.22	1	1	0	900	900	0
1/2/2025 19:04	41901	REED_T1	4	6	2	0.23	0.33	0.1	0	0	0	0	0	0	0	0
1/2/2025 19:04	41902	REED_T1	1	4	3	0.5	0	-0.5	0.63	0.53	2	2	0	1800	1800	0
1/2/2025 19:04	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 19:04	65502	MOJO_T2	0	43	43	0	0.1	0.1	0	0	0	0	0	0	0	0
1/2/2025 19:04	65503	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/2/2025 19:05	64904	MILL_T1	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
1/2/2025 19:10	40101	HUNT_T2	145	119	-26	0.82	0.67	-0.15	-1.68	-1.68	0	0	0	0	0	0
1/2/2025 19:34	40101	HUNT_T2	84	173	89	0.69	0.74	0.05	-1.68	-1.68	0	0	0	0	0	0
1/2/2025 19:47	52404	GRPA_T2	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
1/2/2025 19:47	52402	GRPA_T2	3	3	0	0.33	0.47	0.14	0	0	0	0	0	0	0	0
1/2/2025 20:12	67402	WAKE_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
1/2/2025 23:45	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2025 23:45	40602	PIGR_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
1/3/2025 1:12	13704	SCHN_T2	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
1/3/2025 7:57	59003	MIFF_T1	0	0	0	0	0	0	-0.65	-0.88	0	0	0	0	0	0
1/3/2025 8:19	65502	MOJO_T2	0	276	276	0	0.27	0.27	0	0	0	0	0	0	0	0
1/3/2025 8:19	65503	MOJO_T2	0	94	94	0	0.13	0.13	0	0	0	0	0	0	0	0
1/3/2025 8:26	14201	EALL_T1	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
1/3/2025 8:28	24102	EHAZ_T1	1	4	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/3/2025 8:28	24105	EHAZ_T1	4	5	1	6.4	6.28	-0.12	0	0	0	0	0	0	0	0
1/3/2025 8:28	24101	EHAZ_T1	28	31	3	0.75	0.44	-0.31	0	0	0	0	0	0	0	0
1/3/2025 8:28	24104	EHAZ_T1	0	2	2	0	0.1	0.1	-2.21	-2.21	1	1	0	1200	1200	0
1/3/2025 8:32	13503	MCMI_T2	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
1/3/2025 8:36	55002	NEWP_T1	5	5	0	0.84	0.64	-0.2	-0.18	-0.18	0	0	0	0	0	0
1/3/2025 8:36	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/3/2025 8:56	53502	EVIL_T2	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
1/3/2025 8:56	53501	EVIL_T2	2	3	1	0.3	0.9	0.6	0	0	0	0	0	0	0	0
1/3/2025 8:56	46206	DANV_T2	0	1	1	0	0	0	1.43	1.39	1	1	0	1200	1200	0
1/3/2025 9:00	45501	DERR_T2	0	3	3	0	0.15	0.15	0.22	0.28	2	2	0	1800	1800	0
1/3/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
1/3/2025 9:00	63501	HEID_TBK1-2	20	28	8	0.17	0.21	0.04	-0.47	-0.64	2	2	0	1800	1800	0
1/3/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
1/3/2025 9:05	52503	PROG_T2	0	0	0	0	0	0	-0.34	-0.4	1	1	0	900	900	0
1/3/2025 9:07	46101	MACI_T2	0	0	0	0	0	0	-0.62	-0.64	2	2	0	2400	2400	0
1/3/2025 9:08	52503	PROG_T2	0	0	0	0	0	0	-0.4	0.52	1	0	-1	900	0	-900
1/3/2025 9:10	45501	DERR_T2	0	3	3	0	0.15	0.15	0.28	0.26	2	2	0	1800	1800	0
1/3/2025 9:14	63501	HEID_TBK1-2	20	28	8	0.17	0.21	0.04	0	0	0	0	0	0	0	0
1/3/2025 9:14	14204	EALL_T2	0	0	0	0	0	0	-0.28	-0.23	0	0	0	0	0	0
1/3/2025 9:16	12006	HATF_T1	2	2	0	1.9	1.5	-0.4	0.84	0.82	1	1	0	1200	1200	0
1/3/2025 9:16	63305	GREE_T1	3	0	-3	0.3	0	-0.3	-2.07	-1.25	1	0	-1	900	0	-900
1/3/2025 9:17	63501	HEID_TBK1-2	25	33	8	0.21	0.29	0.08	-0.32	-0.26	1	1	0	900	900	0
1/3/2025 9:17	63305	GREE_T1	3	0	-3	0.3	0	-0.3	-2.07	-1.25	1	0	-1	900	0	-900
1/3/2025 9:17	20603	GRWO_T2	0	0	0	0	0	0	-0.58	-0.57	1	1	0	900	900	0
1/3/2025 9:18	55002	NEWP_T1	5	6	1	0.42	0.55	0.13	-0.17	-0.18	0	0	0	0	0	0
1/3/2025 9:20	41901	REED_T1	6	8	2	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
1/3/2025 9:20	41903	REED_T1	0	0	0	0	0	0	-0.41	-0.42	1	1	0	1200	1200	0
1/3/2025 9:20	41902	REED_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 9:21	58302	NOTT_T1	0	0	0	0	0	0	0.8	0.8	1	0	-1	1200	0	-1200
1/3/2025 9:21	44901	SCOT_T2	0	0	0	0	0	0	-0.23	-0.52	0	0	0	0	0	0
1/3/2025 9:21	44902	SCOT_T2	0	1	1	0	0.5	0.5	-0.94	-0.94	0	0	0	0	0	0
1/3/2025 9:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 9:30	26704	HEMI_T2	0	0	0	0	0	0	-0.77	-0.79	1	1	0	1200	1200	0
1/3/2025 9:32	24105	EHAZ_T1	4	4	0	6.38	6.58	0.2	0	0	0	0	0	0	0	0
1/3/2025 9:32	24102	EHAZ_T1	1	5	4	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/3/2025 9:32	24101	EHAZ_T1	12	10	-2	0.69	0.25	-0.44	0	0	0	0	0	0	0	0
1/3/2025 9:32	24104	EHAZ_T1	11	62	51	0.11	0.27	0.16	-2.19	-2.2	1	1	0	1200	1200	0
1/3/2025 9:35	52502	PROG_T2	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
1/3/2025 9:36	65502	MOJO_T2	0	10	10	0	0.1	0.1	-1.03	-1.26	1	1	0	900	900	0
1/3/2025 9:37	52502	PROG_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
1/3/2025 9:38	65502	MOJO_T2	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 9:39	65502	MOJO_T2	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 9:39	65503	MOJO_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
1/3/2025 9:40	46002	BERW_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	900	900	0
1/3/2025 9:40	46004	BERW_T2	2	5	3	1.35	0.8	-0.55	0	0	0	0	0	0	0	0
1/3/2025 9:41	53502	EVIL_T2	1	1	0	1	0.6	-0.4	0.35	0.28	2	2	0	1200	1200	0
1/3/2025 9:41	53501	EVIL_T2	2	3	1	0.45	0.85	0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/3/2025 9:44	52403	GRPA_T2	2	2	0	0.4	0.4	0	-0.09	-0.09	0	0	0	0	0	0
1/3/2025 9:44	52402	GRPA_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
1/3/2025 9:44	53501	EVIL_T2	2	3	1	0.45	0.85	0.4	0	0	0	0	0	0	0	0
1/3/2025 9:44	47203	FAXO_T2	1	1	0	0.6	0	-0.6	-1.71	-1.74	1	1	0	1200	1200	0
1/3/2025 9:44	54501	ENOL_T2	0	0	0	0	0	0	-0.46	-0.49	1	1	0	600	600	0
1/3/2025 9:44	52401	GRPA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
1/3/2025 9:44	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
1/3/2025 9:44	53502	EVIL_T2	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
1/3/2025 9:45	53502	EVIL_T2	1	1	0	1.1	0.6	-0.5	0.35	0.28	2	2	0	1200	1200	0
1/3/2025 9:45	63501	HEID_TBK1-2	33	48	15	0.29	0.51	0.22	-0.33	-0.33	1	1	0	900	900	0
1/3/2025 9:45	53501	EVIL_T2	2	3	1	0.7	0.97	0.27	0	0	0	0	0	0	0	0
1/3/2025 9:46	53502	EVIL_T2	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
1/3/2025 9:46	53501	EVIL_T2	2	3	1	0.7	0.97	0.27	-0.68	-0.7	1	1	0	600	600	0
1/3/2025 9:47	13503	MCMI_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
1/3/2025 9:48	54205	PENN_T1	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 9:48	57205	ROSS_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
1/3/2025 9:48	54203	PENN_T1	18	46	28	1.03	0.58	-0.45	0	0	0	0	0	0	0	0
1/3/2025 9:48	54201	PENN_T1	8	37	29	0.89	0.35	-0.54	0.02	-0.01	0	0	0	0	0	0
1/3/2025 9:49	65702	RVIL_T2	0	0	0	0	0	0	-1.47	-1.38	1	1	0	600	600	0
1/3/2025 9:49	63501	HEID_TBK1-2	33	48	15	0.29	0.51	0.22	-0.33	-0.33	1	1	0	900	900	0
1/3/2025 9:49	52502	PROG_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
1/3/2025 9:50	14201	EALL_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
1/3/2025 9:50	55002	NEWP_T1	5	6	1	0.5	0.73	0.23	-0.48	-0.54	0	0	0	0	0	0
1/3/2025 9:51	54201	PENN_T1	8	37	29	0.89	0.35	-0.54	-0.01	-0.01	0	0	0	0	0	0
1/3/2025 9:51	54205	PENN_T1	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 9:51	54203	PENN_T1	18	46	28	1.03	0.58	-0.45	0.07	0.06	0	0	0	0	0	0
1/3/2025 9:51	65702	RVIL_T2	0	0	0	0	0	0	-1.47	-1.38	1	1	0	600	600	0
1/3/2025 9:52	54205	PENN_T1	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 9:52	54201	PENN_T1	8	37	29	0.89	0.35	-0.54	0	0	0	0	0	0	0	0
1/3/2025 9:52	54203	PENN_T1	18	46	28	1.03	0.58	-0.45	0.07	0.06	0	0	0	0	0	0
1/3/2025 9:54	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 9:55	46004	BERW_T2	3	8	5	1.03	0.93	-0.1	-0.67	-0.63	0	0	0	0	0	0
1/3/2025 9:56	16102	BING_T2	1	1	0	5.8	4.2	-1.6	0	0	0	0	0	0	0	0
1/3/2025 9:56	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 10:15	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-1.01	1	1	0	600	600	0
1/3/2025 10:15	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
1/3/2025 10:15	23401	HONE_T2	2	5	3	0.4	0.9	0.5	0.13	0.15	0	0	0	0	0	0
1/3/2025 10:15	54502	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/3/2025 10:16	52401	GRPA_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
1/3/2025 10:16	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 10:16	52402	GRPA_T2	1	0	-1	0.1	0	-0.1	-0.63	-0.63	0	0	0	0	0	0
1/3/2025 10:17	55002	NEWP_T1	6	7	1	0.73	0.73	0	-0.17	-0.17	0	0	0	0	0	0
1/3/2025 10:18	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 10:18	23401	HONE_T2	2	5	3	0.4	0.9	0.5	0.13	0.15	0	0	0	0	0	0
1/3/2025 10:18	52401	GRPA_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
1/3/2025 10:18	52402	GRPA_T2	1	0	-1	0.1	0	-0.1	-0.63	-0.63	0	0	0	0	0	0
1/3/2025 10:19	64101	REFR_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
1/3/2025 10:20	64101	REFR_T1	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
1/3/2025 10:20	65205	PRIN_T1	1	2	1	1.5	1.6	0.1	0	0	0	0	0	0	0	0
1/3/2025 10:21	55002	NEWP_T1	6	7	1	0.73	0.73	0	-0.17	-0.19	0	0	0	0	0	0
1/3/2025 10:22	65502	MOJO_T2	0	0	0	0	0	0	-0.74	-0.77	1	1	0	900	900	0
1/3/2025 10:22	64101	REFR_T1	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
1/3/2025 10:22	55002	NEWP_T1	6	7	1	0.73	0.73	0	-0.17	-0.19	0	0	0	0	0	0
1/3/2025 10:23	64101	REFR_T1	0	0	0	0	0	0	-0.03	0.03	0	0	0	0	0	0
1/3/2025 10:24	64101	REFR_T1	0	0	0	0	0	0	-0.02	0.02	0	0	0	0	0	0
1/3/2025 10:25	46004	BERW_T2	7	5	-2	0.81	0.7	-0.11	-0.69	-0.66	0	0	0	0	0	0
1/3/2025 10:26	44503	HAMI_T2	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
1/3/2025 10:26	10801	CHHI_T1	2	1	-1	0.15	0.2	0.05	-2.56	-2.47	4	4	0	3000	3000	0
1/3/2025 10:26	44502	HAMI_T2	1	1	0	1.8	2.8	1	0	0	0	0	0	0	0	0
1/3/2025 10:27	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 10:32	22002	BOHE_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
1/3/2025 10:37	40602	PIGR_T1	1	1	0	1.5	2.1	0.6	0.1	0.1	0	0	0	0	0	0
1/3/2025 10:37	40601	PIGR_T1	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/3/2025 10:40	13704	SCHN_T2	0	0	0	0	0	0	-0.87	-0.32	0	0	0	0	0	0
1/3/2025 10:42	29401	BELT_T1	0	18	18	0	0.14	0.14	0	0	0	0	0	0	0	0
1/3/2025 10:42	48902	FOSP_T2	2	0	-2	0.2	0	-0.2	1.1	1.09	0	0	0	0	0	0
1/3/2025 10:42	29402	BELT_T1	2	17	15	3.45	0.61	-2.84	0	0	0	0	0	0	0	0
1/3/2025 10:42	48901	FOSP_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/3/2025 10:42	10801	CHHI_T1	1	2	1	0.1	0.15	0.05	-1.24	-1.34	2	2	0	1500	1500	0
1/3/2025 10:43	29401	BELT_T1	0	18	18	0	0.14	0.14	0	0	1	1	0	900	900	0
1/3/2025 10:43	29402	BELT_T1	2	17	15	3.45	0.61	-2.84	0	0	0	0	0	0	0	0
1/3/2025 10:45	63804	HEMP_T1	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
1/3/2025 10:45	63803	HEMP_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
1/3/2025 10:45	63802	HEMP_T1	0	0	0	0	0	0	0.17	0.27	0	0	0	0	0	0
1/3/2025 10:45	63801	HEMP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/3/2025 10:47	63801	HEMP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/3/2025 10:47	63802	HEMP_T1	0	0	0	0	0	0	0.17	0.27	0	0	0	0	0	0
1/3/2025 10:47	63804	HEMP_T1	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
1/3/2025 10:47	63803	HEMP_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
1/3/2025 10:50	58202	NEWV_T1	0	0	0	0	0	0	-0.19	-0.27	0	0	0	0	0	0
1/3/2025 10:52	44902	SCOT_T2	0	1	1	0	0.1	0.1	-0.95	-0.88	0	0	0	0	0	0
1/3/2025 10:52	13704	SCHN_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
1/3/2025 10:56	14204	EALL_T2	0	1	1	0	0.1	0.1	-0.26	-0.3	0	0	0	0	0	0
1/3/2025 10:58	17805	GILB_T2	1	0	-1	0.2	0	-0.2	0.18	0.18	0	0	0	0	0	0
1/3/2025 10:58	54506	ENOL_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
1/3/2025 10:58	54502	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/3/2025 10:58	54505	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/3/2025 10:59	17805	GILB_T2	1	0	-1	0.2	0	-0.2	0.18	0.18	0	0	0	0	0	0
1/3/2025 11:00	63501	HEID_TBK1-2	35	46	11	0.38	0.44	0.06	-0.37	-0.36	1	1	0	900	900	0
1/3/2025 11:00	45802	HEGI_T2	1	44	43	0.1	1.45	1.35	0.73	-0.08	1	1	0	900	900	0
1/3/2025 11:02	45802	HEGI_T2	1	44	43	0.1	1.45	1.35	0	0	0	0	0	0	0	0
1/3/2025 11:03	45802	HEGI_T2	1	44	43	0.1	1.45	1.35	0.73	-0.08	1	1	0	900	900	0
1/3/2025 11:03	63501	HEID_TBK1-2	35	46	11	0.38	0.44	0.06	-0.37	-0.36	1	1	0	900	900	0
1/3/2025 11:04	63501	HEID_TBK1-2	35	46	11	0.38	0.44	0.06	-0.37	-0.36	1	1	0	900	900	0
1/3/2025 11:09	54603	SUMM_T2	0	0	0	0	0	0	-0.3	-0.29	1	1	0	900	900	0
1/3/2025 11:09	54601	SUMM_T2	3	1	-2	0.47	0.7	0.23	0	0	0	0	0	0	0	0
1/3/2025 11:09	43304	WATS_T2	0	2	2	0	0	0	0	0.02	0	0	0	0	0	0
1/3/2025 11:10	54601	SUMM_T2	3	1	-2	0.47	0.7	0.23	0	0	0	0	0	0	0	0
1/3/2025 11:10	54603	SUMM_T2	0	0	0	0	0	0	-0.3	-0.29	1	1	0	900	900	0
1/3/2025 11:12	43304	WATS_T2	0	2	2	0	0	0	0	0.02	0	0	0	0	0	0
1/3/2025 11:14	62105	ELAN_T1	0	0	0	0	0	0	0.54	0.49	0	0	0	0	0	0
1/3/2025 11:14	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 11:15	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/3/2025 11:15	62104	ELAN_T1	0	0	0	0	0	0	1.1	1.05	2	2	0	1500	1500	0
1/3/2025 11:18	46102	MACI_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
1/3/2025 11:18	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/3/2025 11:18	12006	HATF_T1	2	2	0	2	1	-1	0	0	0	0	0	0	0	0
1/3/2025 11:18	12002	HATF_T1	0	0	0	0	0	0	-0.75	-0.64	1	1	0	1200	1200	0
1/3/2025 11:18	62104	ELAN_T1	0	0	0	0	0	0	1.1	1.05	2	2	0	1500	1500	0
1/3/2025 11:19	62104	ELAN_T1	0	0	0	0	0	0	1.1	1.05	2	2	0	1500	1500	0
1/3/2025 11:19	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/3/2025 11:19	62106	ELAN_T1	0	0	0	0	0	0	1.15	1.15	0	0	0	0	0	0
1/3/2025 11:20	46101	MACI_T2	0	0	0	0	0	0	-0.64	-0.67	2	2	0	2400	2400	0
1/3/2025 11:22	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 11:22	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 11:22	66502	SMAN_T2	0	0	0	0	0	0	0.21	0.41	0	0	0	0	0	0
1/3/2025 11:22	66503	SMAN_T2	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
1/3/2025 11:23	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 11:23	66502	SMAN_T2	0	0	0	0	0	0	0.21	0.41	0	0	0	0	0	0
1/3/2025 11:23	49803	UNIV_T1	1	1	0	5.7	5.5	-0.2	-0.86	-0.88	0	0	0	0	0	0
1/3/2025 11:24	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 11:24	66502	SMAN_T2	0	0	0	0	0	0	0.21	0.41	0	0	0	0	0	0
1/3/2025 11:24	66503	SMAN_T2	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
1/3/2025 11:25	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 11:25	66502	SMAN_T2	0	0	0	0	0	0	0.21	0.41	0	0	0	0	0	0
1/3/2025 11:25	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 11:26	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 11:26	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 11:26	54501	ENOL_T2	0	0	0	0	0	0	-0.49	-0.5	1	1	0	600	600	0
1/3/2025 11:26	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/3/2025 11:26	66502	SMAN_T2	0	0	0	0	0	0	0.21	0.41	0	0	0	0	0	0
1/3/2025 11:26	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/3/2025 11:28	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/3/2025 11:28	54501	ENOL_T2	0	0	0	0	0	0	-0.49	-0.5	1	1	0	600	600	0
1/3/2025 11:28	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/3/2025 11:30	63602	LETO_T1	0	0	0	0	0	0	-0.44	-0.48	0	0	0	0	0	0
1/3/2025 11:30	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 11:30	14205	EALL_T2	0	0	0	0	0	0	-0.44	-0.51	0	0	0	0	0	0
1/3/2025 11:30	63803	HEMP_T1	1	0	-1	0.1	0	-0.1	0.17	0.13	0	0	0	0	0	0
1/3/2025 11:30	63804	HEMP_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
1/3/2025 11:33	63602	LETO_T1	0	0	0	0	0	0	-0.44	-0.48	0	0	0	0	0	0
1/3/2025 11:38	14802	TREI_T2	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
1/3/2025 11:38	14801	TREI_T2	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
1/3/2025 11:41	60701	BREC_T1	2	2	0	0.2	0.35	0.15	-1.21	-1.24	6	6	0	3600	3600	0
1/3/2025 11:42	60701	BREC_T1	2	2	0	0.2	0.35	0.15	-0.81	-0.83	4	4	0	2400	2400	0
1/3/2025 11:42	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
1/3/2025 11:43	60701	BREC_T1	2	2	0	0.2	0.35	0.15	-0.4	-0.41	2	2	0	1200	1200	0
1/3/2025 11:44	60701	BREC_T1	2	2	0	0.2	0.35	0.15	-2.01	-2.07	10	10	0	6000	6000	0
1/3/2025 11:44	11301	EMMA_T1	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
1/3/2025 11:45	60701	BREC_T1	2	2	0	0.35	0.25	-0.1	-0.4	-0.41	2	2	0	1200	1200	0
1/3/2025 11:49	46501	LOHA_T1	2	2	0	1.95	0.4	-1.55	0	0	0	0	0	0	0	0
1/3/2025 11:49	46506	LOHA_T1	3	4	1	3.5	3.2	-0.3	0	0	0	0	0	0	0	0
1/3/2025 11:49	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
1/3/2025 11:49	46504	LOHA_T1	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
1/3/2025 11:50	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
1/3/2025 11:50	46504	LOHA_T1	2	2	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
1/3/2025 11:50	46506	LOHA_T1	3	4	1	3.5	3.2	-0.3	0	0	0	0	0	0	0	0
1/3/2025 11:50	46501	LOHA_T1	2	2	0	1.95	0.4	-1.55	0	0	0	0	0	0	0	0
1/3/2025 11:50	60701	BREC_T1	2	2	0	0.35	0.25	-0.1	-0.4	-0.41	2	2	0	1200	1200	0
1/3/2025 12:03	58401	MORO_T1	0	0	0	0	0	0	-0.82	-0.83	1	1	0	600	600	0
1/3/2025 12:03	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 12:04	58402	MORO_T1	0	0	0	0	0	0	-0.65	-0.66	3	3	0	2400	2400	0
1/3/2025 12:04	58401	MORO_T1	0	0	0	0	0	0	-0.82	-0.83	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/3/2025 12:05	65802	RTWN_T2	0	0	0	0	0	0	-0.18	-0.14	0	0	0	0	0	0
1/3/2025 12:05	57201	ROSS_T1	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
1/3/2025 12:06	54601	SUMM_T2	2	3	1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
1/3/2025 12:06	54602	SUMM_T2	0	0	0	0	0	0	-2.43	-2.35	1	1	0	600	600	0
1/3/2025 12:07	60902	DONG_T2	0	10	10	0	0.25	0.25	0.69	0.79	0	0	0	0	0	0
1/3/2025 12:07	64101	REFR_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
1/3/2025 12:07	60901	DONG_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/3/2025 12:07	60904	DONG_T2	0	10	10	0	0.12	0.12	0	0	0	0	0	0	0	0
1/3/2025 12:07	60903	DONG_T2	0	26	26	0	0.14	0.14	0	0	0	0	0	0	0	0
1/3/2025 12:08	54601	SUMM_T2	2	3	1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
1/3/2025 12:08	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 12:10	54601	SUMM_T2	2	3	1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
1/3/2025 12:10	57201	ROSS_T1	0	0	0	0	0	0	-0.53	-0.51	0	0	0	0	0	0
1/3/2025 12:10	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 12:12	18001	ZION_T1	2	2	0	9.45	9.55	0.1	0	0	0	0	0	0	0	0
1/3/2025 12:14	40802	EXCH_T2	0	0	0	0	0	0	-0.15	-0.1	0	0	0	0	0	0
1/3/2025 12:16	40802	EXCH_T2	0	0	0	0	0	0	-0.15	-0.1	0	0	0	0	0	0
1/3/2025 12:17	47203	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 12:17	47202	FAXO_T2	0	0	0	0	0	0	-2.27	-2.26	0	0	0	0	0	0
1/3/2025 12:17	43304	WATS_T2	0	2	2	0	0	0	0.01	0.06	0	0	0	0	0	0
1/3/2025 12:20	53903	HALI_T2	2	2	0	1.15	1.2	0.05	0	0	0	0	0	0	0	0
1/3/2025 12:20	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 12:20	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
1/3/2025 12:22	65702	RVIL_T2	0	0	0	0	0	0	-0.8	-0.85	0	0	0	0	0	0
1/3/2025 12:26	66505	SMAN_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
1/3/2025 12:26	66502	SMAN_T2	1	3	2	0.1	0.13	0.03	0.16	0.14	0	0	0	0	0	0
1/3/2025 12:27	51603	DUKE_T1	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
1/3/2025 12:28	11301	EMMA_T1	0	0	0	0	0	0	-0.72	-0.69	0	0	0	0	0	0
1/3/2025 12:29	66502	SMAN_T2	1	3	2	0.1	0.13	0.03	0.16	0.14	0	0	0	0	0	0
1/3/2025 12:29	61302	EARL_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/3/2025 12:29	66505	SMAN_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
1/3/2025 12:29	61305	EARL_T1	0	0	0	0	0	0	0.37	0.5	2	2	0	1500	1500	0
1/3/2025 12:30	61304	EARL_T1	0	0	0	0	0	0	-0.92	-0.9	1	1	0	600	600	0
1/3/2025 12:30	22602	KIMB_T1	0	0	0	0	0	0	0.16	0.23	0	0	0	0	0	0
1/3/2025 12:34	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 12:35	64802	MONE_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
1/3/2025 12:35	66502	SMAN_T2	3	0	-3	0.13	0	-0.13	0.16	0.14	0	0	0	0	0	0
1/3/2025 12:35	66505	SMAN_T2	1	2	1	0.3	0.65	0.35	0	0	0	0	0	0	0	0
1/3/2025 12:40	43402	BENT_T1	0	0	0	0	0	0	-0.89	-0.88	1	1	0	900	900	0
1/3/2025 12:42	43402	BENT_T1	0	0	0	0	0	0	-0.89	-0.88	1	1	0	900	900	0
1/3/2025 12:45	54601	SUMM_T2	1	1	0	0.6	0.2	-0.4	-1.72	-1.75	2	2	0	2100	2100	0
1/3/2025 12:46	52502	PROG_T2	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
1/3/2025 12:50	60501	NMAN_T2	22	10	-12	0.15	0.15	0	0	0	0	0	0	0	0	0
1/3/2025 12:50	60502	NMAN_T2	0	0	0	0	0	0	-0.1	-0.05	0	0	0	0	0	0
1/3/2025 12:51	60902	DONG_T2	6	2	-4	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/3/2025 12:51	60903	DONG_T2	1	1	0	0.4	0.2	-0.2	0.04	-0.01	1	1	0	600	600	0
1/3/2025 12:51	60901	DONG_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/3/2025 12:51	60904	DONG_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/3/2025 12:53	60902	DONG_T2	6	2	-4	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/3/2025 12:53	60903	DONG_T2	1	1	0	0.4	0.2	-0.2	-0.01	0.05	1	1	0	600	600	0
1/3/2025 12:53	60904	DONG_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/3/2025 12:53	60901	DONG_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/3/2025 12:57	62604	ENGL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/3/2025 12:57	62606	ENGL_T1	57	59	2	0.2	0.2	0	0	0	0	0	0	0	0	0
1/3/2025 12:57	62602	ENGL_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
1/3/2025 12:57	62605	ENGL_T1	0	0	0	0	0	0	-2.33	-2.34	0	0	0	0	0	0
1/3/2025 12:58	62604	ENGL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/3/2025 12:58	62606	ENGL_T1	57	59	2	0.2	0.2	0	-1.44	-1.44	1	1	0	900	900	0
1/3/2025 12:59	62605	ENGL_T1	0	0	0	0	0	0	-1.16	-1.17	0	0	0	0	0	0
1/3/2025 12:59	62606	ENGL_T1	57	59	2	0.2	0.2	0	0	0	0	0	0	0	0	0
1/3/2025 12:59	62604	ENGL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/3/2025 13:00	62604	ENGL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/3/2025 13:00	62605	ENGL_T1	0	0	0	0	0	0	-2.33	-2.34	0	0	0	0	0	0
1/3/2025 13:00	62606	ENGL_T1	59	63	4	0.2	0.21	0.01	0	0	0	0	0	0	0	0
1/3/2025 13:01	62607	ENGL_T1	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
1/3/2025 13:01	62606	ENGL_T1	59	63	4	0.2	0.21	0.01	0	0	0	0	0	0	0	0
1/3/2025 13:01	62604	ENGL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/3/2025 13:03	62605	ENGL_T1	0	0	0	0	0	0	-1.16	-1.17	0	0	0	0	0	0
1/3/2025 13:03	62606	ENGL_T1	59	63	4	0.2	0.21	0.01	0	0	0	0	0	0	0	0
1/3/2025 13:03	62604	ENGL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/3/2025 13:11	49803	UNIV_T1	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
1/3/2025 13:11	49804	UNIV_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
1/3/2025 13:22	67001	STHI_T2	1	1	0	0.2	0.4	0.2	0.15	0.14	0	0	0	0	0	0
1/3/2025 13:23	67002	STHI_T2	0	0	0	0	0	0	1.93	1.96	0	0	0	0	0	0
1/3/2025 13:23	67001	STHI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/3/2025 13:25	67002	STHI_T2	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
1/3/2025 13:25	67001	STHI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/3/2025 13:27	67001	STHI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/3/2025 13:27	67002	STHI_T2	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
1/3/2025 13:32	40101	HUNT_T2	123	364	241	0.75	0.75	0	-1.47	-1.47	0	0	0	0	0	0
1/3/2025 13:34	40101	HUNT_T2	123	364	241	0.75	0.75	0	-1.47	-1.47	0	0	0	0	0	0
1/3/2025 13:34	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 13:35	64902	MILL_T2	0	0	0	0	0	0	-0.68	-0.68	1	1	0	900	900	0
1/3/2025 13:39	57203	ROSS_T1	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
1/3/2025 13:49	13503	MCMI_T2	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
1/3/2025 13:53	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/3/2025 13:53	67002	STHI_T2	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
1/3/2025 13:55	57201	ROSS_T1	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
1/3/2025 13:55	44902	SCOT_T2	70	153	83	0.13	0.13	0	0	0	0	0	0	0	0	0
1/3/2025 13:55	44901	SCOT_T2	5	60	55	0.1	0.19	0.09	-0.38	-0.42	0	0	0	0	0	0
1/3/2025 14:03	66502	SMAN_T2	0	0	0	0	0	0	0.1	0.06	0	0	0	0	0	0
1/3/2025 14:14	16302	ALPA_T2	0	0	0	0	0	0	-0.61	-0.73	0	0	0	0	0	0
1/3/2025 14:21	64802	MONE_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
1/3/2025 14:24	43802	SWIL_T1	0	0	0	0	0	0	-0.12	-0.14	1	1	0	600	600	0
1/3/2025 14:24	43801	SWIL_T1	6	13	7	0.88	0.53	-0.35	0	0	0	0	0	0	0	0
1/3/2025 14:25	44301	BEAV_T2	1	1	0	1.8	1.4	-0.4	-0.71	-0.77	1	1	0	600	600	0
1/3/2025 14:26	43801	SWIL_T1	6	13	7	0.88	0.53	-0.35	0	0	0	0	0	0	0	0
1/3/2025 14:26	44301	BEAV_T2	1	1	0	1.8	1.4	-0.4	-0.71	-0.77	1	1	0	600	600	0
1/3/2025 14:26	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 14:33	46602	LACR_T1	0	3	3	0	0.2	0.2	-0.77	-0.79	0	0	0	0	0	0
1/3/2025 14:33	64701	LITI_T1	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
1/3/2025 14:34	64302	LINC_T2	0	0	0	0	0	0	0.67	0.6	0	0	0	0	0	0
1/3/2025 14:35	64304	LINC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 14:36	64304	LINC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 14:41	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.9	1	1	0	900	900	0
1/3/2025 14:57	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.89	1	1	0	900	900	0
1/3/2025 14:58	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.89	1	1	0	900	900	0
1/3/2025 15:16	43801	SWIL_T1	11	11	0	0.59	0.7	0.11	0	0	0	0	0	0	0	0
1/3/2025 15:16	43802	SWIL_T1	0	0	0	0	0	0	-0.15	-0.12	1	1	0	600	600	0
1/3/2025 15:22	13704	SCHN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 15:25	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 15:25	42501	ALTA_T2	0	0	0	0	0	0	0.04	0.07	1	1	0	600	600	0
1/3/2025 15:26	42601	TUSC_T1	0	15	15	0	0	0	-0.27	-0.17	2	2	0	1800	1800	0
1/3/2025 16:57	44902	SCOT_T2	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
1/3/2025 17:25	62607	ENGL_T1	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
1/3/2025 17:25	62602	ENGL_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
1/3/2025 18:14	62104	ELAN_T1	0	0	0	0	0	0	0.84	0.84	2	2	0	1500	1500	0
1/3/2025 18:21	64802	MONE_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
1/3/2025 18:22	66505	SMAN_T2	3	3	0	0.77	0.63	-0.14	0	0	0	0	0	0	0	0
1/3/2025 18:22	66503	SMAN_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
1/3/2025 18:23	62602	ENGL_T1	1	1	0	1.7	0	-1.7	0	0	0	0	0	0	0	0
1/3/2025 18:23	62605	ENGL_T1	0	0	0	0	0	0	-1.15	-1.14	0	0	0	0	0	0
1/3/2025 18:24	64701	LITI_T1	0	0	0	0	0	0	0.19	0.28	0	0	0	0	0	0
1/3/2025 18:25	64302	LINC_T2	0	0	0	0	0	0	0.73	0.66	0	0	0	0	0	0
1/3/2025 18:25	63501	HEID_TBK1-2	1	29	28	0.1	0.26	0.16	0	0	0	0	0	0	0	0
1/3/2025 18:25	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:26	64304	LINC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:26	65205	PRIN_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
1/3/2025 18:26	63305	GREE_T1	0	0	0	0	0	0	-1.38	-1.33	0	0	0	0	0	0
1/3/2025 18:29	65702	RVIL_T2	0	0	0	0	0	0	-0.79	-0.86	0	0	0	0	0	0
1/3/2025 18:29	62104	ELAN_T1	0	0	0	0	0	0	0.84	0.93	2	2	0	1500	1500	0
1/3/2025 18:29	62105	ELAN_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
1/3/2025 18:31	64101	REFR_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
1/3/2025 18:31	63501	HEID_TBK1-2	0	36	36	0	0.46	0.46	-0.4	-0.45	1	1	0	900	900	0
1/3/2025 18:32	67002	STHI_T2	66	102	36	0.21	0.26	0.05	0.62	0.61	0	0	0	0	0	0
1/3/2025 18:32	67001	STHI_T2	243	367	124	0.16	0.22	0.06	0	0	0	0	0	0	0	0
1/3/2025 18:34	67002	STHI_T2	66	102	36	0.21	0.26	0.05	0.62	0.61	0	0	0	0	0	0
1/3/2025 18:34	66502	SMAN_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
1/3/2025 18:34	67001	STHI_T2	243	367	124	0.16	0.22	0.06	0	0	0	0	0	0	0	0
1/3/2025 18:34	63501	HEID_TBK1-2	0	36	36	0	0.46	0.46	-0.4	-0.45	1	1	0	900	900	0
1/3/2025 18:34	63804	HEMP_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
1/3/2025 18:34	63802	HEMP_T1	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
1/3/2025 18:34	16302	ALPA_T2	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
1/3/2025 18:34	66505	SMAN_T2	3	3	0	0.27	0.67	0.4	0	0	0	0	0	0	0	0
1/3/2025 18:35	65503	MOJO_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
1/3/2025 18:35	60701	BREC_T1	0	0	0	0	0	0	-0.37	-0.34	1	1	0	600	600	0
1/3/2025 18:35	63501	HEID_TBK1-2	0	36	36	0	0.46	0.46	-0.4	-0.45	1	1	0	900	900	0
1/3/2025 18:35	64101	REFR_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
1/3/2025 18:35	60903	DONG_T2	0	0	0	0	0	0	0.85	0.64	1	1	0	600	600	0
1/3/2025 18:36	57205	ROSS_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
1/3/2025 18:36	65502	MOJO_T2	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
1/3/2025 18:36	63305	GREE_T1	0	0	0	0	0	0	-1.38	-1.33	0	0	0	0	0	0
1/3/2025 18:36	60701	BREC_T1	0	0	0	0	0	0	-0.75	-0.69	2	2	0	1200	1200	0
1/3/2025 18:37	60701	BREC_T1	0	0	0	0	0	0	-0.69	-0.69	2	2	0	1200	1200	0
1/3/2025 18:38	64101	REFR_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
1/3/2025 18:38	67002	STHI_T2	66	102	36	0.21	0.26	0.05	1.23	1.24	0	0	0	0	0	0
1/3/2025 18:38	67001	STHI_T2	243	367	124	0.16	0.22	0.06	0	0	0	0	0	0	0	0
1/3/2025 18:38	60701	BREC_T1	0	0	0	0	0	0	-0.34	-0.34	1	1	0	600	600	0
1/3/2025 18:39	62104	ELAN_T1	0	0	0	0	0	0	0.93	0.91	2	2	0	1500	1500	0
1/3/2025 18:39	60701	BREC_T1	0	0	0	0	0	0	-0.69	-0.69	2	2	0	1200	1200	0
1/3/2025 18:40	66505	SMAN_T2	3	3	0	0.27	0.67	0.4	0	0	0	0	0	0	0	0
1/3/2025 18:40	17805	GILB_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
1/3/2025 18:40	60903	DONG_T2	0	0	0	0	0	0	0.64	0.47	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/3/2025 18:40	55002	NEWP_T1	4	4	0	0.78	0.48	-0.3	-0.36	-0.4	0	0	0	0	0	0
1/3/2025 18:40	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:40	17803	GILB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/3/2025 18:41	66502	SMAN_T2	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
1/3/2025 18:41	67002	STHI_T2	66	102	36	0.21	0.26	0.05	0.61	0.62	0	0	0	0	0	0
1/3/2025 18:41	66505	SMAN_T2	3	3	0	0.27	0.67	0.4	0	0	0	0	0	0	0	0
1/3/2025 18:41	67001	STHI_T2	243	367	124	0.16	0.22	0.06	0	0	0	0	0	0	0	0
1/3/2025 18:41	62605	ENGL_T1	0	0	0	0	0	0	-1.14	-1.16	0	0	0	0	0	0
1/3/2025 18:41	46004	BERW_T2	6	22	16	1.15	0.95	-0.2	0	0	0	0	0	0	0	0
1/3/2025 18:41	46002	BERW_T2	0	0	0	0	0	0	-1.25	-1.24	1	1	0	900	900	0
1/3/2025 18:41	26704	HEMI_T2	0	0	0	0	0	0	-0.8	-0.78	1	1	0	1200	1200	0
1/3/2025 18:41	60502	NMAN_T2	0	0	0	0	0	0	-0.21	-0.27	0	0	0	0	0	0
1/3/2025 18:41	62602	ENGL_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
1/3/2025 18:41	57201	ROSS_T1	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
1/3/2025 18:41	60701	BREC_T1	0	0	0	0	0	0	-0.34	-0.34	1	1	0	600	600	0
1/3/2025 18:41	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 18:42	63804	HEMP_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
1/3/2025 18:42	45802	HEGI_T2	45	41	-4	1.6	0.71	-0.89	0.54	0.7	0	0	0	0	0	0
1/3/2025 18:42	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
1/3/2025 18:42	52404	GRPA_T2	2	1	-1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
1/3/2025 18:42	52402	GRPA_T2	1	2	1	0.2	0.25	0.05	-0.77	-0.79	0	0	0	0	0	0
1/3/2025 18:42	66503	SMAN_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
1/3/2025 18:42	60701	BREC_T1	0	0	0	0	0	0	-0.34	-0.34	1	1	0	600	600	0
1/3/2025 18:42	13704	SCHN_T2	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
1/3/2025 18:42	66502	SMAN_T2	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
1/3/2025 18:42	66505	SMAN_T2	3	3	0	0.27	0.67	0.4	0	0	0	0	0	0	0	0
1/3/2025 18:42	52401	GRPA_T2	7	2	-5	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/3/2025 18:42	63803	HEMP_T1	0	0	0	0	0	0	0.74	0.68	0	0	0	0	0	0
1/3/2025 18:43	63804	HEMP_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
1/3/2025 18:43	52403	GRPA_T2	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
1/3/2025 18:43	66505	SMAN_T2	3	3	0	0.27	0.67	0.4	0	0	0	0	0	0	0	0
1/3/2025 18:43	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:43	52402	GRPA_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
1/3/2025 18:43	66502	SMAN_T2	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
1/3/2025 18:43	64101	REFR_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
1/3/2025 18:43	63802	HEMP_T1	0	0	0	0	0	0	0.15	0.23	0	0	0	0	0	0
1/3/2025 18:43	60701	BREC_T1	0	0	0	0	0	0	-0.34	-0.34	1	1	0	600	600	0
1/3/2025 18:43	52404	GRPA_T2	2	1	-1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
1/3/2025 18:43	52401	GRPA_T2	7	2	-5	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/3/2025 18:44	12002	HATF_T1	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
1/3/2025 18:44	12006	HATF_T1	2	2	0	1.75	1.35	-0.4	0	0	0	0	0	0	0	0
1/3/2025 18:44	64802	MONE_T2	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
1/3/2025 18:44	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
1/3/2025 18:44	14204	EALL_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
1/3/2025 18:44	66502	SMAN_T2	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
1/3/2025 18:44	43401	BENT_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:44	62606	ENGL_T1	0	0	0	0	0	0	-1.44	-1.44	1	1	0	900	900	0
1/3/2025 18:44	65802	RTWN_T2	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
1/3/2025 18:44	66505	SMAN_T2	3	3	0	0.27	0.67	0.4	0	0	0	0	0	0	0	0
1/3/2025 18:44	14802	TREI_T2	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
1/3/2025 18:44	62602	ENGL_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
1/3/2025 18:44	57201	ROSS_T1	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
1/3/2025 18:45	45802	HEGI_T2	41	27	-14	0.7	0.53	-0.17	0.54	0.7	0	0	0	0	0	0
1/3/2025 18:45	22002	BOHE_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
1/3/2025 18:45	63501	HEID_TBK1-2	29	36	7	0.26	0.46	0.2	-0.45	-0.43	1	1	0	900	900	0
1/3/2025 18:45	29401	BELT_T1	4	2	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
1/3/2025 18:45	17805	GILB_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
1/3/2025 18:45	66505	SMAN_T2	3	3	0	0.63	0.67	0.04	0	0	0	0	0	0	0	0
1/3/2025 18:45	66502	SMAN_T2	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
1/3/2025 18:45	29402	BELT_T1	86	90	4	0.67	0.66	-0.01	0	0	0	0	0	0	0	0
1/3/2025 18:46	10801	CHHI_T1	0	0	0	0	0	0	-1.36	-1.36	2	2	0	1500	1500	0
1/3/2025 18:46	52402	GRPA_T2	1	2	1	0.1	0.25	0.15	-0.77	-0.79	0	0	0	0	0	0
1/3/2025 18:46	64101	REFR_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
1/3/2025 18:46	40802	EXCH_T2	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
1/3/2025 18:46	29402	BELT_T1	86	90	4	0.67	0.66	-0.01	0	0	0	0	0	0	0	0
1/3/2025 18:46	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:46	52401	GRPA_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/3/2025 18:46	63602	LETO_T1	0	0	0	0	0	0	-0.44	-0.48	0	0	0	0	0	0
1/3/2025 18:46	52404	GRPA_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
1/3/2025 18:46	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:46	62605	ENGL_T1	0	0	0	0	0	0	-1.14	-1.16	0	0	0	0	0	0
1/3/2025 18:46	29401	BELT_T1	4	2	-2	0.1	0.1	0	0	0	1	1	0	900	900	0
1/3/2025 18:46	18001	ZION_T1	2	2	0	8.55	8.65	0.1	0	0	0	0	0	0	0	0
1/3/2025 18:46	53501	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 18:47	44301	BEAV_T2	1	2	1	2.4	1.65	-0.75	-1.17	-1.09	2	2	0	1200	1200	0
1/3/2025 18:47	63501	HEID_TBK1-2	29	36	7	0.26	0.46	0.2	-0.45	-0.43	1	1	0	900	900	0
1/3/2025 18:47	64101	REFR_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
1/3/2025 18:47	46101	MACI_T2	0	0	0	0	0	0	-0.52	-0.55	1	1	0	1200	1200	0
1/3/2025 18:47	53502	EVIL_T2	0	0	0	0	0	0	-0.45	-0.46	2	2	0	1200	1200	0
1/3/2025 18:48	45502	DERR_T2	1	2	1	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/3/2025 18:48	66505	SMAN_T2	3	3	0	0.63	0.67	0.04	0	0	0	0	0	0	0	0
1/3/2025 18:48	14801	TREI_T2	0	1	1	0	0	0	0.77	0.74	0	0	0	0	0	0
1/3/2025 18:48	44901	SCOT_T2	0	0	0	0	0	0	-0.27	-0.37	0	0	0	0	0	0
1/3/2025 18:48	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:48	62605	ENGL_T1	0	0	0	0	0	0	-1.14	-1.16	0	0	0	0	0	0
1/3/2025 18:48	66502	SMAN_T2	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
1/3/2025 18:48	14201	EALL_T1	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
1/3/2025 18:48	13503	MCMI_T2	0	0	0	0	0	0	-0.63	-0.58	0	0	0	0	0	0
1/3/2025 18:48	45501	DERR_T2	0	0	0	0	0	0	0.32	0.31	4	4	0	3600	3600	0
1/3/2025 18:48	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:48	64101	REFR_T1	0	0	0	0	0	0	0.1	0.06	0	0	0	0	0	0
1/3/2025 18:48	46101	MACI_T2	0	0	0	0	0	0	-0.52	-0.55	1	1	0	1200	1200	0
1/3/2025 18:48	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:49	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:49	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:49	62605	ENGL_T1	0	0	0	0	0	0	-1.14	-1.16	0	0	0	0	0	0
1/3/2025 18:49	48902	FOSP_T2	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
1/3/2025 18:49	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
1/3/2025 18:49	62602	ENGL_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
1/3/2025 18:49	63602	LETO_T1	0	0	0	0	0	0	-0.44	-0.48	0	0	0	0	0	0
1/3/2025 18:49	46506	LOHA_T1	3	3	0	2.2	2.13	-0.07	0	0	0	0	0	0	0	0
1/3/2025 18:49	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
1/3/2025 18:49	46501	LOHA_T1	11	6	-5	0.61	0.85	0.24	0	0	0	0	0	0	0	0
1/3/2025 18:49	45802	HEGI_T2	41	27	-14	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
1/3/2025 18:49	44901	SCOT_T2	0	0	0	0	0	0	-0.27	-0.37	0	0	0	0	0	0
1/3/2025 18:49	43401	BENT_T1	1	3	2	1	0.3	-0.7	0	0	0	0	0	0	0	0
1/3/2025 18:50	46602	LACK_T1	1	1	0	0.1	0.1	0	-0.71	-0.78	0	0	0	0	0	0
1/3/2025 18:50	67001	STHI_T2	339	363	24	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
1/3/2025 18:50	62605	ENGL_T1	0	0	0	0	0	0	-1.14	-1.16	0	0	0	0	0	0
1/3/2025 18:50	67002	STHI_T2	100	90	-10	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
1/3/2025 18:50	10801	CHHI_T1	0	0	0	0	0	0	-1.36	-1.36	2	2	0	1500	1500	0
1/3/2025 18:50	62607	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:50	63501	HEID_TBK1-2	29	36	7	0.26	0.46	0.2	-0.45	-0.43	1	1	0	900	900	0
1/3/2025 18:50	23402	HONE_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/3/2025 18:50	23401	HONE_T2	5	12	7	1.18	1	-0.18	-0.31	-0.26	0	0	0	0	0	0
1/3/2025 18:50	54602	SUMM_T2	0	0	0	0	0	0	-2.34	-2.38	1	1	0	600	600	0
1/3/2025 18:51	54201	PENN_T1	4	8	4	1.25	0.85	-0.4	-0.05	-0.05	0	0	0	0	0	0
1/3/2025 18:51	53501	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 18:51	60902	DONG_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
1/3/2025 18:51	52502	PROG_T2	0	0	0	0	0	0	-0.33	-0.36	1	1	0	900	900	0
1/3/2025 18:51	54203	PENN_T1	18	18	0	0.96	1.02	0.06	0	0	0	0	0	0	0	0
1/3/2025 18:51	53502	EVIL_T2	0	0	0	0	0	0	-0.46	0.14	2	2	0	1200	1200	0
1/3/2025 18:51	51603	DUKE_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
1/3/2025 18:51	55002	NEWP_T1	4	4	0	0.48	0.53	0.05	-0.2	-0.19	0	0	0	0	0	0
1/3/2025 18:52	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 18:52	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:52	58402	MORO_T1	0	1	1	0	0	0	-0.08	-0.14	3	3	0	1950	1950	0
1/3/2025 18:52	11301	EMMA_T1	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
1/3/2025 18:52	58401	MORO_T1	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/3/2025 18:52	54501	ENOL_T2	0	0	0	0	0	0	-0.48	-0.47	1	1	0	600	600	0
1/3/2025 18:52	14204	EALL_T2	0	0	0	0	0	0	-0.15	-0.13	0	0	0	0	0	0
1/3/2025 18:52	67001	STHI_T2	339	363	24	0.22	0.18	-0.04	0.15	0.15	0	0	0	0	0	0
1/3/2025 18:52	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:52	67002	STHI_T2	100	90	-10	0.26	0.25	-0.01	0.62	0.64	0	0	0	0	0	0
1/3/2025 18:52	14801	TREI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:53	65702	RVIL_T2	0	0	0	0	0	0	-1.76	-1.77	0	0	0	0	0	0
1/3/2025 18:53	52503	PROG_T2	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
1/3/2025 18:53	53903	HALI_T2	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
1/3/2025 18:53	53902	HALI_T2	1	1	0	5.2	5.5	0.3	0	0	0	0	0	0	0	0
1/3/2025 18:53	61304	EARL_T1	0	0	0	0	0	0	-0.83	-0.82	1	1	0	600	600	0
1/3/2025 18:53	52502	PROG_T2	0	0	0	0	0	0	-0.33	-0.36	1	1	0	900	900	0
1/3/2025 18:53	22602	KIMB_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
1/3/2025 18:53	58302	NOTT_T1	0	0	0	0	0	0	0.91	0.91	0	0	0	0	0	0
1/3/2025 18:53	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/3/2025 18:54	46003	BERW_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/3/2025 18:54	46004	BERW_T2	14	26	12	0.89	0.81	-0.08	-0.74	-0.68	0	0	0	0	0	0
1/3/2025 18:54	54203	PENN_T1	18	18	0	0.96	1.02	0.06	0	0	0	0	0	0	0	0
1/3/2025 18:54	40101	HUNT_T2	362	362	0	1.02	0.82	-0.2	-1.64	-1.6	0	0	0	0	0	0
1/3/2025 18:54	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:54	54501	ENOL_T2	0	0	0	0	0	0	-0.48	-0.47	1	1	0	600	600	0
1/3/2025 18:54	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 18:54	54201	PENN_T1	4	8	4	1.25	0.85	-0.4	-0.05	-0.05	0	0	0	0	0	0
1/3/2025 18:54	60701	BREC_T1	0	0	0	0	0	0	-0.34	-0.36	1	1	0	600	600	0
1/3/2025 18:55	43401	BENT_T1	1	3	2	1	0.3	-0.7	0	0	0	0	0	0	0	0
1/3/2025 18:55	53501	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 18:55	49803	UNIV_T1	1	1	0	6.3	6.3	0	-0.9	-0.92	0	0	0	0	0	0
1/3/2025 18:55	54504	ENOL_T2	0	0	0	0	0	0	-0.94	-0.93	1	1	0	600	600	0
1/3/2025 18:55	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 18:55	47203	FAXO_T2	1	1	0	0.7	0	-0.7	-1.71	-1.72	1	1	0	1200	1200	0
1/3/2025 18:55	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
1/3/2025 18:55	44902	SCOT_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
1/3/2025 18:55	43802	SWIL_T1	0	0	0	0	0	0	-0.12	-0.12	1	1	0	600	600	0
1/3/2025 18:55	43801	SWIL_T1	5	5	0	1.42	1.34	-0.08	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/3/2025 18:56	10801	CHHI_T1	0	0	0	0	0	0	-1.36	-1.41	2	2	0	1500	1500	0
1/3/2025 18:56	24105	EHAZ_T1	4	17	13	6.03	5.85	-0.18	0	0	0	0	0	0	0	0
1/3/2025 18:56	46506	LOHA_T1	3	3	0	2.2	2.13	-0.07	0	0	0	0	0	0	0	0
1/3/2025 18:56	46501	LOHA_T1	11	6	-5	0.61	0.85	0.24	0	0	0	0	0	0	0	0
1/3/2025 18:56	54603	SUMM_T2	0	0	0	0	0	0	-0.27	-0.37	1	1	0	900	900	0
1/3/2025 18:56	40101	HUNT_T2	362	362	0	1.02	0.82	-0.2	-1.64	-1.6	0	0	0	0	0	0
1/3/2025 18:56	48902	FOSP_T2	0	0	0	0	0	0	0.1	0.14	0	0	0	0	0	0
1/3/2025 18:56	20601	GRWO_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/3/2025 18:56	55002	NEWP_T1	4	4	0	0.48	0.53	0.05	-0.2	-0.19	0	0	0	0	0	0
1/3/2025 18:56	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
1/3/2025 18:56	24104	EHAZ_T1	0	0	0	0	0	0	-0.84	-0.85	1	1	0	1200	1200	0
1/3/2025 18:56	24102	EHAZ_T1	25	26	1	0.72	1.2	0.48	0	0	0	0	0	0	0	0
1/3/2025 18:56	24101	EHAZ_T1	69	72	3	1.27	1	-0.27	0	0	0	0	0	0	0	0
1/3/2025 18:56	13704	SCHN_T2	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
1/3/2025 18:56	20603	GRWO_T2	22	5	-17	0.3	0.15	-0.15	0.5	0.49	0	0	0	0	0	0
1/3/2025 18:57	40802	EXCH_T2	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
1/3/2025 18:57	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:57	65502	MOJO_T2	0	0	0	0	0	0	-0.96	-0.96	0	0	0	0	0	0
1/3/2025 18:57	44905	SCOT_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
1/3/2025 18:57	40701	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 18:57	54603	SUMM_T2	0	0	0	0	0	0	-0.27	-0.37	1	1	0	900	900	0
1/3/2025 18:58	54201	PENN_T1	4	8	4	1.25	0.85	-0.4	0	0	0	0	0	0	0	0
1/3/2025 18:58	44902	SCOT_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
1/3/2025 18:58	49804	UNIV_T1	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
1/3/2025 18:58	49803	UNIV_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
1/3/2025 18:58	54601	SUMM_T2	0	0	0	0	0	0	-1.72	-1.72	2	2	0	2100	2100	0
1/3/2025 18:58	54203	PENN_T1	18	18	0	0.96	1.02	0.06	0.03	0.02	0	0	0	0	0	0
1/3/2025 18:58	58202	NEWV_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
1/3/2025 18:58	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:59	43801	SWIL_T1	5	5	0	1.42	1.34	-0.08	0	0	0	0	0	0	0	0
1/3/2025 18:59	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 18:59	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 19:00	52503	PROG_T2	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
1/3/2025 19:00	46003	BERW_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/3/2025 19:00	11301	EMMA_T1	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
1/3/2025 19:00	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	-0.81	-0.89	1	1	0	600	600	0
1/3/2025 19:00	44503	HAMI_T2	0	0	0	0	0	0	-0.75	-0.78	0	0	0	0	0	0
1/3/2025 19:00	46102	MACI_T1	0	1	1	0	0	0	0.66	0.66	0	0	0	0	0	0
1/3/2025 19:00	44502	HAMI_T2	1	1	0	2.8	2.8	0	0	0	0	0	0	0	0	0
1/3/2025 19:00	44501	HAMI_T2	3	1	-2	0.4	0.4	0	0	0	0	0	0	0	0	0
1/3/2025 19:00	64903	MILL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 19:00	46004	BERW_T2	18	23	5	1.07	0.68	-0.39	-0.74	-0.68	0	0	0	0	0	0
1/3/2025 19:00	64902	MILL_T2	0	0	0	0	0	0	-0.63	-0.64	1	1	0	900	900	0
1/3/2025 19:01	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 19:01	54201	PENN_T1	5	9	4	1.12	0.77	-0.35	0	0	0	0	0	0	0	0
1/3/2025 19:01	54506	ENOL_T2	0	0	0	0	0	0	0.4	0.38	1	0	-1	600	0	-600
1/3/2025 19:01	54203	PENN_T1	18	18	0	0.99	1.12	0.13	0.03	0.02	0	0	0	0	0	0
1/3/2025 19:01	64101	REFR_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
1/3/2025 19:02	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 19:02	43302	WATS_T2	4	3	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/3/2025 19:02	12006	HATF_T1	2	2	0	1.35	1.3	-0.05	0.69	0.66	0	0	0	0	0	0
1/3/2025 19:02	54501	ENOL_T2	0	0	0	0	0	0	-0.48	-0.47	1	1	0	600	600	0
1/3/2025 19:02	43801	SWIL_T1	5	2	-3	1.34	3.1	1.76	0	0	0	0	0	0	0	0
1/3/2025 19:02	43802	SWIL_T1	0	0	0	0	0	0	-0.12	-0.12	1	1	0	600	600	0
1/3/2025 19:02	43304	WATS_T2	2	3	1	0.15	0.2	0.05	-0.12	-0.08	0	0	0	0	0	0
1/3/2025 19:03	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 19:03	40603	PIGR_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
1/3/2025 19:03	40602	PIGR_T1	1	5	4	1	2.7	1.7	-1.14	0.12	0	0	0	0	0	0
1/3/2025 19:03	40601	PIGR_T1	8	0	-8	0.14	0	-0.14	0	0	0	0	0	0	0	0
1/3/2025 19:04	43302	WATS_T2	4	3	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/3/2025 19:04	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 19:04	43304	WATS_T2	2	3	1	0.15	0.2	0.05	-0.12	-0.08	0	0	0	0	0	0
1/3/2025 19:07	41902	REED_T1	4	3	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
1/3/2025 19:07	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 19:07	41901	REED_T1	9	8	-1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
1/3/2025 19:07	41903	REED_T1	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
1/3/2025 19:07	58401	MORO_T1	0	0	0	0	0	0	-0.92	-0.94	1	1	0	600	600	0
1/3/2025 19:09	58401	MORO_T1	0	0	0	0	0	0	-0.92	-0.94	1	1	0	600	600	0
1/3/2025 19:09	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/3/2025 19:10	43304	WATS_T2	2	3	1	0.15	0.2	0.05	-0.08	-0.06	0	0	0	0	0	0
1/3/2025 19:10	43302	WATS_T2	4	3	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/3/2025 19:12	66505	SMAN_T2	3	3	0	0.67	0.5	-0.17	0	0	0	0	0	0	0	0
1/3/2025 19:12	66502	SMAN_T2	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0
1/3/2025 19:23	42601	TUSC_T1	0	1	1	0	0	0	-0.28	-0.27	2	2	0	1800	1800	0
1/3/2025 19:26	64101	REFR_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
1/3/2025 19:36	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2025 19:36	16102	BING_T2	1	1	0	3.3	4	0.7	0	0	0	0	0	0	0	0
1/3/2025 20:42	44902	SCOT_T2	0	0	0	0	0	0	-0.92	-0.93	0	0	0	0	0	0
1/3/2025 20:44	14205	FALL_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
1/3/2025 20:54	44901	SCOT_T2	0	0	0	0	0	0	-0.1	-0.21	0	0	0	0	0	0
1/3/2025 21:48	60701	BREC_T1	254	24	-230	0.18	0.11	-0.07	-0.43	-0.44	1	1	0	600	600	0
1/3/2025 22:49	66505	SMAN_T2	3	3	0	0.23	0.87	0.64	0	0	0	0	0	0	0	0
1/3/2025 22:49	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 8:01	40101	HUNT_T2	296	445	149	0.65	0.73	0.08	-1.46	-1.54	0	0	0	0	0	0
1/4/2025 8:10	16102	BING_T2	1	1	0	1.1	3.7	2.6	0	0	0	0	0	0	0	0
1/4/2025 8:10	16103	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/4/2025 8:29	53501	EVIL_T2	1	1	0	0.1	1.1	1	0	0	0	0	0	0	0	0
1/4/2025 8:29	53502	EVIL_T2	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
1/4/2025 8:44	16102	BING_T2	1	1	0	3.7	4.5	0.8	0	0	0	0	0	0	0	0
1/4/2025 8:44	16103	BING_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/4/2025 8:44	16101	BING_T2	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
1/4/2025 8:46	26704	HEML_T2	0	0	0	0	0	0	-0.82	-0.78	1	1	0	1200	1200	0
1/4/2025 8:52	13704	SCHN_T2	0	1	1	0	0	0	-0.75	-0.75	0	0	0	0	0	0
1/4/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.38	0.43	0	0	0	0	0	0
1/4/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
1/4/2025 9:08	13704	SCHN_T2	0	1	1	0	0.2	0.2	-0.75	-0.75	0	0	0	0	0	0
1/4/2025 9:08	13702	SCHN_T1	0	2	2	0	0.3	0.3	-0.52	-0.53	0	0	0	0	0	0
1/4/2025 9:10	16103	BING_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
1/4/2025 9:10	16101	BING_T2	0	0	0	0	0	0	0.61	0.58	0	0	0	0	0	0
1/4/2025 9:10	16102	BING_T2	1	1	0	4.3	5.8	1.5	0	0	0	0	0	0	0	0
1/4/2025 9:12	10801	CHHI_T1	0	0	0	0	0	0	-1.97	-1.94	3	3	0	2100	2100	0
1/4/2025 9:16	53501	EVIL_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
1/4/2025 9:16	53502	EVIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/4/2025 9:16	23402	HONE_T2	3	0	-3	1.13	0	-1.13	0	0	0	0	0	0	0	0
1/4/2025 9:16	23401	HONE_T2	5	14	9	0.6	0.3	-0.3	0.06	0.06	0	0	0	0	0	0
1/4/2025 9:18	26704	HEML_T2	0	0	0	0	0	0	-0.79	-0.79	1	1	0	1200	1200	0
1/4/2025 9:20	58302	NOTT_T1	0	0	0	0	0	0	-1.37	-1.33	2	2	0	2100	2100	0
1/4/2025 9:21	52502	PROG_T2	0	0	0	0	0	0	-0.56	-0.53	2	2	0	1800	1800	0
1/4/2025 9:22	14605	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/4/2025 9:22	14601	SWHI_T1	0	0	0	0	0	0	-0.69	-0.65	0	0	0	0	0	0
1/4/2025 9:22	52502	PROG_T2	0	0	0	0	0	0	-0.28	-0.26	1	1	0	900	900	0
1/4/2025 9:23	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 9:24	52502	PROG_T2	0	0	0	0	0	0	-0.28	-0.26	1	1	0	900	900	0
1/4/2025 9:25	63501	HEID_T8K1-2	1	0	-1	0.2	0	-0.2	-0.38	-0.4	1	1	0	900	900	0
1/4/2025 9:26	13702	SCHN_T1	2	3	1	0.3	0.23	-0.07	-1.05	-0.98	0	0	0	0	0	0
1/4/2025 9:27	53501	EVIL_T2	2	2	0	0.6	0.65	0.05	-0.63	-0.61	0	0	0	0	0	0
1/4/2025 9:27	53502	EVIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/4/2025 9:30	53903	HALI_T2	2	2	0	0.55	0.15	-0.4	0	0	0	0	0	0	0	0
1/4/2025 9:30	45502	DERR_T2	3	14	11	1.17	1.33	0.16	0	0	0	0	0	0	0	0
1/4/2025 9:30	53902	HALI_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
1/4/2025 9:30	45501	DERR_T2	2	18	16	0.4	0.7	0.3	-1.28	-1.32	4	4	0	3600	3600	0
1/4/2025 9:30	53901	HALI_T2	0	0	0	0	0	0	-1.34	-1.35	0	0	0	0	0	0
1/4/2025 9:33	55002	NEWP_T1	4	3	-1	0.3	0.23	-0.07	-0.15	-0.15	0	0	0	0	0	0
1/4/2025 9:33	65502	MOJO_T2	0	0	0	0	0	0	-0.82	-0.92	0	0	0	0	0	0
1/4/2025 9:34	65502	MOJO_T2	0	0	0	0	0	0	-0.82	-0.92	0	0	0	0	0	0
1/4/2025 9:35	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 9:38	52502	PROG_T2	0	0	0	0	0	0	-0.26	-0.29	1	1	0	900	900	0
1/4/2025 9:46	26703	HEML_T1	2	8	6	1.05	0.3	-0.75	-0.59	-0.59	1	1	0	600	600	0
1/4/2025 9:46	26701	HEML_T1	5	4	-1	0.44	0.83	0.39	0	0	0	0	0	0	0	0
1/4/2025 9:47	23401	HONE_T2	12	24	12	0.56	0.17	-0.39	0.03	0.07	0	0	0	0	0	0
1/4/2025 9:49	55405	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 9:56	13704	SCHN_T2	1	1	0	0.1	0.4	0.3	-0.75	-0.72	0	0	0	0	0	0
1/4/2025 10:00	10805	CHHI_T2	1	6	5	8.1	7.4	-0.7	-1.4	-1.44	1	1	0	600	600	0
1/4/2025 10:00	14605	SWHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/4/2025 10:00	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 10:08	40301	TAMA_T3	2	5	3	0.7	0.7	0	0	0	0	0	0	0	0	0
1/4/2025 10:08	40302	TAMA_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 10:10	40302	TAMA_T3	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
1/4/2025 10:10	40301	TAMA_T3	2	5	3	0.7	0.7	0	0	0	0	0	0	0	0	0
1/4/2025 10:11	43301	WATS_T2	8	3	-5	0.31	0.2	-0.11	0	0	0	0	0	0	0	0
1/4/2025 10:11	43304	WATS_T2	0	4	4	0	0.1	0.1	-0.42	-0.43	0	0	0	0	0	0
1/4/2025 10:12	43304	WATS_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
1/4/2025 10:12	42701	AUGU_T1	4	10	6	0.2	0.28	0.08	0	0	2	2	0	1800	1800	0
1/4/2025 10:12	43301	WATS_T2	8	3	-5	0.31	0.2	-0.11	0	0	0	0	0	0	0	0
1/4/2025 10:13	43304	WATS_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
1/4/2025 10:13	43301	WATS_T2	8	3	-5	0.31	0.2	-0.11	0	0	0	0	0	0	0	0
1/4/2025 10:14	44802	EDAN_T2	0	0	0	0	0	0	-2.06	-2.06	0	0	0	0	0	0
1/4/2025 10:14	44801	EDAN_T2	1	2	1	0.5	1.1	0.6	0	0	0	0	0	0	0	0
1/4/2025 10:16	44801	EDAN_T2	1	2	1	1.1	1.2	0.1	0	0	0	0	0	0	0	0
1/4/2025 10:16	44802	EDAN_T2	0	0	0	0	0	0	-4.12	-4.12	0	0	0	0	0	0
1/4/2025 10:17	44801	EDAN_T2	1	2	1	1.1	1.2	0.1	0	0	0	0	0	0	0	0
1/4/2025 10:17	44802	EDAN_T2	0	0	0	0	0	0	-2.06	-2.06	0	0	0	0	0	0
1/4/2025 10:20	46803	HEPB_T2	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
1/4/2025 10:21	40602	PIGR_T1	1	1	0	3	3.2	0.2	-1.67	-1.65	1	1	0	600	600	0
1/4/2025 10:21	40603	PIGR_T1	2	2	0	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/4/2025 10:22	44901	SCOT_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
1/4/2025 10:24	13702	SCHN_T1	2	5	3	0.15	0.3	0.15	-0.5	-0.5	0	0	0	0	0	0
1/4/2025 10:27	43402	BENT_T1	0	1	1	0	0.3	0.3	-0.88	-0.87	1	1	0	900	900	0
1/4/2025 10:27	43401	BENT_T1	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
1/4/2025 10:30	50201	HARR_T3	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
1/4/2025 10:30	50103	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 10:30	50105	HARR_T3	6	6	0	7.28	7.25	-0.03	0	0	0	0	0	0	0	0
1/4/2025 10:30	50202	HARR_T3	0	0	0	0	0	0	-1.48	-1.5	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/4/2025 10:30	50106	HARR_T3	3	4	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
1/4/2025 10:30	50107	HARR_T3	3	3	0	0.33	0.45	0.12	0	0	0	0	0	0	0	0
1/4/2025 10:34	58401	MORO_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	600	600	0
1/4/2025 10:34	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/4/2025 10:35	40602	PIGR_T1	1	1	0	3.2	2.6	-0.6	0	0	0	0	0	0	0	0
1/4/2025 10:35	40603	PIGR_T1	1	2	1	0.2	1.4	1.2	0	0	0	0	0	0	0	0
1/4/2025 10:36	58401	MORO_T1	0	0	0	0	0	0	-0.9	-0.88	1	1	0	600	600	0
1/4/2025 10:36	56501	ROCK_T2	2	2	0	1.15	0.8	-0.35	-1.56	-1.49	0	0	0	0	0	0
1/4/2025 10:36	13201	PALM_T1	13	24	11	0.51	0.32	-0.19	-0.3	-0.29	0	0	0	0	0	0
1/4/2025 10:36	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/4/2025 10:37	40602	PIGR_T1	1	1	0	3.2	2.6	-0.6	-1.67	-1.68	1	1	0	600	600	0
1/4/2025 10:37	40603	PIGR_T1	1	2	1	0.2	1.4	1.2	0	0	0	0	0	0	0	0
1/4/2025 10:37	56501	ROCK_T2	2	2	0	1.15	0.8	-0.35	-1.56	-1.49	0	0	0	0	0	0
1/4/2025 10:41	49803	UNIV_T1	1	2	1	6.3	6.3	0	0	0	0	0	0	0	0	0
1/4/2025 10:41	49804	UNIV_T1	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
1/4/2025 10:50	46602	LACR_T1	4	13	9	0.2	0.2	0	-0.66	-0.7	0	0	0	0	0	0
1/4/2025 10:52	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 10:54	46301	ROHR_T1	2	2	0	2.5	2.6	0.1	0	0	0	0	0	0	0	0
1/4/2025 10:54	46302	ROHR_T1	9	11	2	0.79	0.75	-0.04	0.56	0.6	0	0	0	0	0	0
1/4/2025 11:00	53601	DALM_T2	0	3	3	0	0.2	0.2	-0.09	-0.08	0	0	0	0	0	0
1/4/2025 11:04	13503	MCMI_T2	0	1	1	0	0	0	-0.54	-0.51	0	0	0	0	0	0
1/4/2025 11:07	41902	REED_T1	11	3	-8	0.69	0.73	0.04	0.09	0.16	1	1	0	900	900	0
1/4/2025 11:07	41901	REED_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
1/4/2025 11:08	13201	PALM_T1	22	48	26	0.57	0.73	0.16	-0.29	-0.29	0	0	0	0	0	0
1/4/2025 11:10	55103	WERT_T1	0	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0
1/4/2025 11:10	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 11:12	10801	CHHI_T1	0	1	1	0	0	0	-1.95	-1.92	3	3	0	2100	2100	0
1/4/2025 11:14	52402	GRPA_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/4/2025 11:14	52404	GRPA_T2	0	2	2	0	0	0	-0.17	-0.19	0	0	0	0	0	0
1/4/2025 11:14	52403	GRPA_T2	5	13	8	0.18	0.45	0.27	0	0	0	0	0	0	0	0
1/4/2025 11:15	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 11:15	52404	GRPA_T2	2	0	-2	0.1	0	-0.1	-0.17	-0.19	0	0	0	0	0	0
1/4/2025 11:15	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 11:15	52403	GRPA_T2	2	16	14	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
1/4/2025 11:29	44301	BEAV_T2	2	1	-1	1.15	2.1	0.95	0	0	0	0	0	0	0	0
1/4/2025 11:39	49803	UNIV_T1	1	1	0	6.9	6.5	-0.4	0	0	0	0	0	0	0	0
1/4/2025 11:40	49803	UNIV_T1	1	1	0	6.9	6.5	-0.4	-0.89	-0.88	0	0	0	0	0	0
1/4/2025 11:44	46206	DANV_T2	5	2	-3	0.36	0.2	-0.16	0	0	0	0	0	0	0	0
1/4/2025 11:44	51804	EBEN_T2	1	1	0	1	0.2	-0.8	-0.31	-0.24	2	2	0	1800	1800	0
1/4/2025 11:44	46203	DANV_T2	0	200	200	0	0.87	0.87	-2.59	-2.57	0	0	0	0	0	0
1/4/2025 11:44	43402	BENT_T1	1	1	0	0.9	0	-0.9	-0.85	-0.87	1	1	0	900	900	0
1/4/2025 11:44	46204	DANV_T2	69	92	23	0.33	0.37	0.04	0	0	0	0	0	0	0	0
1/4/2025 11:44	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 11:44	51802	EBEN_T2	8	5	-3	0.94	0.55	-0.39	0	0	0	0	0	0	0	0
1/4/2025 11:46	51802	EBEN_T2	5	2	-3	0.66	0.55	-0.11	0	0	0	0	0	0	0	0
1/4/2025 11:46	20603	GRWO_T2	6	18	12	0.15	0	-0.15	-0.44	-0.46	1	1	0	900	900	0
1/4/2025 11:46	20601	GRWO_T2	3	3	0	0.63	0.45	-0.18	0	0	0	0	0	0	0	0
1/4/2025 11:46	53902	HALI_T2	1	1	0	4.8	5	0.2	-3.4	-3.41	0	0	0	0	0	0
1/4/2025 11:46	51804	EBEN_T2	1	1	0	1.4	0.2	-1.2	-0.15	-0.12	1	1	0	900	900	0
1/4/2025 11:46	10801	CHHI_T1	0	4	4	0	0.55	0.55	-1.92	-1.89	3	3	0	2100	2100	0
1/4/2025 11:46	53903	HALI_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/4/2025 11:47	46206	DANV_T2	2	9	7	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/4/2025 11:47	46204	DANV_T2	36	100	64	0.4	0.43	0.03	0	0	0	0	0	0	0	0
1/4/2025 11:47	52002	LING_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
1/4/2025 11:47	46203	DANV_T2	10	16	6	0.34	0.81	0.47	-2.59	-2.57	0	0	0	0	0	0
1/4/2025 11:47	52004	LING_T2	2	2	0	4.4	4.6	0.2	0	0	0	0	0	0	0	0
1/4/2025 11:48	52004	LING_T2	2	2	0	4.4	4.6	0.2	0	0	0	0	0	0	0	0
1/4/2025 11:48	52002	LING_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
1/4/2025 11:48	46204	DANV_T2	36	100	64	0.4	0.43	0.03	0	0	0	0	0	0	0	0
1/4/2025 11:48	46203	DANV_T2	10	16	6	0.34	0.81	0.47	0	0	0	0	0	0	0	0
1/4/2025 11:48	53902	HALI_T2	1	1	0	4.8	5	0.2	-0.85	-0.85	0	0	0	0	0	0
1/4/2025 11:48	53903	HALI_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/4/2025 11:48	46206	DANV_T2	2	9	7	0.3	0	-0.3	0.82	0.82	2	2	0	2100	2100	0
1/4/2025 11:49	52002	LING_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
1/4/2025 11:49	52004	LING_T2	2	2	0	4.4	4.6	0.2	0	0	0	0	0	0	0	0
1/4/2025 11:50	44201	POIN_T1	1	4	3	0.1	0.1	0	-1.67	-1.75	1	1	0	1200	1200	0
1/4/2025 11:51	46204	DANV_T2	36	100	64	0.4	0.43	0.03	0	0	0	0	0	0	0	0
1/4/2025 11:51	52004	LING_T2	2	2	0	4.4	4.6	0.2	0	0	0	0	0	0	0	0
1/4/2025 11:51	46206	DANV_T2	2	9	7	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/4/2025 11:51	46203	DANV_T2	10	16	6	0.34	0.81	0.47	-2.59	-2.57	0	0	0	0	0	0
1/4/2025 11:51	52002	LING_T2	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
1/4/2025 11:52	56501	ROCK_T2	6	9	3	0.6	0.61	0.01	0	0	0	0	0	0	0	0
1/4/2025 11:52	44201	POIN_T1	1	4	3	0.1	0.1	0	-1.75	-1.66	1	1	0	1200	1200	0
1/4/2025 11:52	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 11:52	56504	ROCK_T2	0	0	0	0	0	0	-0.04	-0.07	0	0	0	0	0	0
1/4/2025 11:53	51804	EBEN_T2	1	1	0	1.4	0.2	-1.2	0	0	0	0	0	0	0	0
1/4/2025 11:53	51802	EBEN_T2	5	2	-3	0.66	0.55	-0.11	-0.33	-0.35	1	1	0	900	900	0
1/4/2025 11:53	56504	ROCK_T2	0	0	0	0	0	0	-0.04	-0.07	0	0	0	0	0	0
1/4/2025 11:53	44201	POIN_T1	1	4	3	0.1	0.1	0	-1.75	-1.66	1	1	0	1200	1200	0
1/4/2025 11:53	56501	ROCK_T2	6	9	3	0.6	0.61	0.01	-1.5	-1.49	0	0	0	0	0	0
1/4/2025 11:54	60504	NMAN_T2	0	0	0	0	0	0	-0.65	-0.72	1	1	0	1200	1200	0
1/4/2025 11:58	46203	DANV_T2	10	16	6	0.34	0.81	0.47	-2.57	-1.7	0	0	0	0	0	0
1/4/2025 11:58	46204	DANV_T2	36	100	64	0.4	0.43	0.03	0	0	0	0	0	0	0	0
1/4/2025 11:58	53601	DALM_T2	3	2	-1	0.17	0.5	0.33	-0.04	-0.04	0	0	0	0	0	0
1/4/2025 11:58	46206	DANV_T2	2	9	7	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/4/2025 12:00	53501	EVIL_T2	1	1	0	1.2	0.1	-1.1	-0.59	-0.6	0	0	0	0	0	0
1/4/2025 12:04	11804	FRAN_T1	1	1	0	0.1	0	-0.1	0.64	0.64	0	0	0	0	0	0
1/4/2025 12:04	42701	AUGU_T1	1	1	0	0.2	0.5	0.3	0	0	2	2	0	1800	1800	0
1/4/2025 12:14	11102	EGYP_T1	6	11	5	0.2	0.37	0.17	0	0	0	0	0	0	0	0
1/4/2025 12:14	11101	EGYP_T1	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
1/4/2025 12:14	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
1/4/2025 12:14	11104	EGYP_T1	2	25	23	1.25	0.38	-0.87	0.62	0.62	0	0	0	0	0	0
1/4/2025 12:15	53501	EVIL_T2	1	1	0	0.1	0.1	0	-0.6	-0.61	0	0	0	0	0	0
1/4/2025 12:16	11102	EGYP_T1	7	11	4	0.37	0.77	0.4	0	0	0	0	0	0	0	0
1/4/2025 12:16	11104	EGYP_T1	16	48	32	0.29	0.45	0.16	0.62	0.62	0	0	0	0	0	0
1/4/2025 12:16	53501	EVIL_T2	1	1	0	0.1	0.1	0	-0.6	-0.61	0	0	0	0	0	0
1/4/2025 12:16	11101	EGYP_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/4/2025 12:20	46101	MACI_T2	0	1	1	0	0	0	-1.79	-1.9	2	2	0	2400	2400	0
1/4/2025 12:35	43201	MVIL_T2	10	10	0	0.62	0.32	-0.3	-1.2	-1.21	0	0	0	0	0	0
1/4/2025 12:35	43202	MVIL_T2	4	13	9	0.7	0.9	0.2	0	0	0	0	0	0	0	0
1/4/2025 12:40	16102	BING_T2	1	1	0	5.7	3.7	-2	0.06	0.03	0	0	0	0	0	0
1/4/2025 12:40	16103	BING_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/4/2025 12:42	10801	CHHI_T1	1	0	-1	0.3	0	-0.3	-1.96	-2.02	3	3	0	2100	2100	0
1/4/2025 12:44	16102	BING_T2	1	1	0	5.7	3.7	-2	0	0	0	0	0	0	0	0
1/4/2025 12:44	16103	BING_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/4/2025 12:44	44802	EDAN_T2	0	0	0	0	0	0	-3.39	-3.44	1	1	0	1200	1200	0
1/4/2025 12:46	44802	EDAN_T2	0	0	0	0	0	0	-6.78	-6.88	2	2	0	2400	2400	0
1/4/2025 12:47	52004	LING_T2	2	2	0	4.7	4.8	0.1	0.1	0.09	0	0	0	0	0	0
1/4/2025 12:49	52004	LING_T2	2	2	0	4.7	4.8	0.1	0.1	0.09	0	0	0	0	0	0
1/4/2025 12:49	64401	LAND_T1	0	0	0	0	0	0	-1.01	-1.03	1	1	0	600	600	0
1/4/2025 12:50	55001	NEWP_T1	0	0	0	0	0	0	-0.77	-0.76	1	1	0	600	600	0
1/4/2025 12:50	55002	NEWP_T1	2	2	0	0.55	0.25	-0.3	0	0	0	0	0	0	0	0
1/4/2025 12:51	44203	POIN_T1	0	0	0	0	0	0	-3.49	-3.52	2	2	0	2400	2400	0
1/4/2025 12:52	44201	POIN_T1	0	0	0	0	0	0	-1.76	-1.74	1	1	0	1200	1200	0
1/4/2025 12:52	43201	MVIL_T2	10	6	-4	0.82	0.33	-0.49	0	0	0	0	0	0	0	0
1/4/2025 12:52	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 12:52	43202	MVIL_T2	11	14	3	0.95	0.89	-0.06	-1.23	-1.12	0	0	0	0	0	0
1/4/2025 12:54	56504	ROCK_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
1/4/2025 12:54	56501	ROCK_T2	3	7	4	0.53	0.85	0.32	0	0	0	0	0	0	0	0
1/4/2025 12:55	44201	POIN_T1	0	0	0	0	0	0	-1.76	-1.74	1	1	0	1200	1200	0
1/4/2025 12:56	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 12:57	20801	LOPO_T1	19	17	-2	0.59	0.4	-0.19	0	0	0	0	0	0	0	0
1/4/2025 12:57	20802	LOPO_T1	3	3	0	0.27	0.2	-0.07	-0.88	-0.87	1	1	0	600	600	0
1/4/2025 13:03	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 13:05	58102	NEKI_T1	1	1	0	0.6	0.8	0.2	-1.05	-1.1	1	1	0	1200	1200	0
1/4/2025 13:05	43202	MVIL_T2	12	12	0	0.88	0.74	-0.14	-0.62	-0.56	0	0	0	0	0	0
1/4/2025 13:05	43201	MVIL_T2	5	5	0	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
1/4/2025 13:06	64204	KINZ_T1	1	13	12	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
1/4/2025 13:06	64203	KINZ_T1	0	0	0	0	0	0	-0.98	-0.28	2	1	-1	900	600	-300
1/4/2025 13:07	56501	ROCK_T2	7	7	0	0.81	0.58	-0.23	-1.55	-1.5	0	0	0	0	0	0
1/4/2025 13:08	55002	NEWP_T1	2	3	1	0.2	0.67	0.47	-0.15	-0.18	0	0	0	0	0	0
1/4/2025 13:08	56501	ROCK_T2	7	7	0	0.81	0.58	-0.23	-1.55	-1.5	0	0	0	0	0	0
1/4/2025 13:10	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 13:10	16102	BING_T2	1	1	0	3.3	6.1	2.8	0	0	0	0	0	0	0	0
1/4/2025 13:14	44801	EDAN_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
1/4/2025 13:16	12005	HATF_T1	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/4/2025 13:16	12006	HATF_T1	2	2	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
1/4/2025 13:16	12007	HATF_T1	0	0	0	0	0	0	0.03	0.04	1	1	0	1200	1200	0
1/4/2025 13:18	44801	EDAN_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
1/4/2025 13:18	63501	HEID_TBK1-2	24	28	4	0.21	0.19	-0.02	-0.43	-0.4	1	1	0	900	900	0
1/4/2025 13:18	54506	ENOL_T2	0	0	0	0	0	0	0.16	0.19	1	1	0	600	600	0
1/4/2025 13:18	55002	NEWP_T1	1	3	2	0.4	0.7	0.3	-0.15	-0.18	0	0	0	0	0	0
1/4/2025 13:20	63501	HEID_TBK1-2	24	28	4	0.21	0.19	-0.02	-0.86	-0.8	2	2	0	1800	1800	0
1/4/2025 13:22	14403	SSLA_T1	6	5	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
1/4/2025 13:22	14402	SSLA_T1	1	3	2	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/4/2025 13:22	14401	SSLA_T1	3	3	0	1.9	0.7	-1.2	0	0	0	0	0	0	0	0
1/4/2025 13:32	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
1/4/2025 13:32	63802	HEMP_T1	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
1/4/2025 13:35	63802	HEMP_T1	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
1/4/2025 13:35	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
1/4/2025 13:36	63801	HEMP_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
1/4/2025 13:36	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
1/4/2025 13:40	41902	REED_T1	0	6	6	0	0	0	0.17	0.15	1	1	0	900	900	0
1/4/2025 13:40	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 13:40	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 13:40	41901	REED_T1	6	6	0	0.53	0.57	0.04	0	0	0	0	0	0	0	0
1/4/2025 13:45	52403	GRPA_T2	4	10	6	0.35	0.5	0.15	0	0	0	0	0	0	0	0
1/4/2025 13:45	52401	GRPA_T2	2	0	-2	0.4	0	-0.4	-0.51	-0.56	0	0	0	0	0	0
1/4/2025 13:45	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 13:45	52402	GRPA_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/4/2025 13:46	12002	HATF_T1	0	0	0	0	0	0	-1.33	-1.33	1	1	0	1200	1200	0
1/4/2025 13:46	12005	HATF_T1	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/4/2025 13:46	61001	DONV_T1	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/4/2025 13:46	12006	HATF_T1	2	2	0	1	0.75	-0.25	0	0	0	0	0	0	0	0
1/4/2025 13:49	43201	MVIL_T2	6	5	-1	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
1/4/2025 13:49	43202	MVIL_T2	3	9	6	1	0.72	-0.28	-0.62	-0.59	0	0	0	0	0	0
1/4/2025 13:51	55002	NEWP_T1	3	2	-1	0.63	0.2	-0.43	-0.18	-0.17	0	0	0	0	0	0
1/4/2025 13:51	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 13:52	43202	MVIL_T2	3	9	6	1	0.72	-0.28	-0.59	-0.57	0	0	0	0	0	0
1/4/2025 13:52	43201	MVIL_T2	6	5	-1	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
1/4/2025 13:53	44203	POIN_T2	0	0	0	0	0	0	-0.92	-0.96	2	2	0	2100	2100	0
1/4/2025 13:53	44202	POIN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/4/2025 13:54	13302	ORVI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 13:55	42701	AUGU_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/4/2025 13:56	43201	MVIL_T2	6	5	-1	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
1/4/2025 13:56	43202	MVIL_T2	3	9	6	1	0.72	-0.28	-0.59	-0.57	0	0	0	0	0	0
1/4/2025 13:59	45502	DERR_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/4/2025 13:59	45501	DERR_T2	0	1	1	0	0	0	-0.38	-0.39	2	2	0	1800	1800	0
1/4/2025 14:00	45501	DERR_T2	1	0	-1	0.5	0	-0.5	-0.38	-0.39	2	2	0	1800	1800	0
1/4/2025 14:02	45501	DERR_T2	1	0	-1	0.5	0	-0.5	-0.38	-0.39	2	2	0	1800	1800	0
1/4/2025 14:03	46204	DANV_T2	21	55	34	0.42	0.39	-0.03	0	0	0	0	0	0	0	0
1/4/2025 14:03	46203	DANV_T2	24	28	4	1.01	1.11	0.1	-5.46	-5.58	0	0	0	0	0	0
1/4/2025 14:04	13501	MCMI_T1	1	3	2	2	0.4	-1.6	0.52	0.45	0	0	0	0	0	0
1/4/2025 14:05	46204	DANV_T2	21	55	34	0.42	0.39	-0.03	0	0	0	0	0	0	0	0
1/4/2025 14:05	46203	DANV_T2	24	28	4	1.01	1.11	0.1	-2.73	-2.79	0	0	0	0	0	0
1/4/2025 14:06	44201	POIN_T1	33	31	-2	0.15	0.15	0	-1.7	-1.77	1	1	0	1200	1200	0
1/4/2025 14:07	66902	SHIL_T2	0	0	0	0	0	0	-1.94	-1.94	0	0	0	0	0	0
1/4/2025 14:09	66902	SHIL_T2	0	0	0	0	0	0	-5.81	-5.81	0	0	0	0	0	0
1/4/2025 14:11	66901	SHIL_T2	0	0	0	0	0	0	-3.4	-3.42	2	2	0	2400	2400	0
1/4/2025 14:12	44905	SCOT_T1	12	6	-6	0.78	0.45	-0.33	0	0	0	0	0	0	0	0
1/4/2025 14:19	46204	DANV_T2	25	54	29	0.42	0.45	0.03	0	0	0	0	0	0	0	0
1/4/2025 14:19	46206	DANV_T2	0	1	1	0	0	0	0.71	0.72	2	2	0	2100	2100	0
1/4/2025 14:19	63501	HEID_TBK1-2	30	27	-3	0.24	0.17	-0.07	0	0	0	0	0	0	0	0
1/4/2025 14:19	46203	DANV_T2	27	25	-2	1.11	0.98	-0.13	0	0	0	0	0	0	0	0
1/4/2025 14:20	66902	SHIL_T2	0	0	0	0	0	0	-1.94	-1.94	0	0	0	0	0	0
1/4/2025 14:24	44203	POIN_T2	0	0	0	0	0	0	-1.01	-0.98	2	2	0	2100	2100	0
1/4/2025 14:24	44202	POIN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/4/2025 14:29	60102	COCA_T1	0	0	0	0	0	0	-0.83	-0.72	2	2	0	1200	1200	0
1/4/2025 14:29	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 14:29	60104	COCA_T2	4	3	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
1/4/2025 14:30	16102	BING_T2	1	1	0	4.5	4.2	-0.3	0	0	0	0	0	0	0	0
1/4/2025 14:30	16103	BING_T2	1	1	0	0.3	0.2	-0.1	-1.54	-1.52	1	1	0	900	900	0
1/4/2025 14:31	45802	HEGI_T2	38	49	11	0.45	0.74	0.29	-0.01	-0.02	1	1	0	900	900	0
1/4/2025 14:35	45802	HEGI_T2	38	49	11	0.45	0.74	0.29	0	0	0	0	0	0	0	0
1/4/2025 14:36	63501	HEID_TBK1-2	24	25	1	0.17	0.16	-0.01	-0.39	-0.42	1	1	0	900	900	0
1/4/2025 14:38	63501	HEID_TBK1-2	24	25	1	0.17	0.16	-0.01	-0.42	-0.37	1	1	0	900	900	0
1/4/2025 14:38	13702	SCHN_T1	0	0	0	0	0	0	1.3	1.32	0	0	0	0	0	0
1/4/2025 14:42	13702	SCHN_T1	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
1/4/2025 14:44	45802	HEGI_T2	38	49	11	0.45	0.74	0.29	-0.02	0.11	1	1	0	900	900	0
1/4/2025 14:45	46001	BERW_T1	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
1/4/2025 15:08	28102	TWLA_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
1/4/2025 15:18	28403	HART_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 15:24	25801	SUTR_T2	2	2	0	8.7	8.45	-0.25	-0.54	-0.54	0	0	0	0	0	0
1/4/2025 15:24	44902	SCOT_T2	0	0	0	0	0	0	-0.87	-0.9	0	0	0	0	0	0
1/4/2025 15:31	45802	HEGI_T2	22	23	1	0.34	0.32	-0.02	0	0.03	1	1	0	900	900	0
1/4/2025 15:40	67103	SPRI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
1/4/2025 15:52	54602	SUMM_T2	0	0	0	0	0	0	-2.32	-2.34	1	1	0	600	600	0
1/4/2025 15:55	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 16:12	14603	SWHI_T1	1	1	0	0.8	0.5	-0.3	-1.51	-1.51	2	2	0	1200	1200	0
1/4/2025 16:14	14603	SWHI_T1	1	1	0	0.8	0.5	-0.3	-1.51	-1.51	2	2	0	1200	1200	0
1/4/2025 17:53	28102	TWLA_T2	23	14	-9	0.73	1.03	0.3	0.29	0.3	0	0	0	0	0	0
1/4/2025 17:57	43402	BENT_T1	0	5	5	0	0	0	-0.61	-0.88	1	1	0	900	900	0
1/4/2025 17:57	43401	BENT_T1	2	9	7	0.45	0	-0.45	0	0	0	0	0	0	0	0
1/4/2025 17:59	43402	BENT_T1	0	5	5	0	0	0	-0.61	-0.88	1	1	0	900	900	0
1/4/2025 17:59	43401	BENT_T1	2	9	7	0.45	0	-0.45	0	0	0	0	0	0	0	0
1/4/2025 18:36	42701	AUGU_T1	6	7	1	0.75	0.38	-0.37	0	0	0	0	0	0	0	0
1/4/2025 18:36	46206	DANV_T2	2	1	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/4/2025 18:36	46203	DANV_T2	24	9	-15	0.38	0.2	-0.18	-2.5	-2.55	0	0	0	0	0	0
1/4/2025 18:36	46204	DANV_T2	89	109	20	0.47	0.22	-0.25	0	0	0	0	0	0	0	0
1/4/2025 18:38	46602	LACR_T1	0	1	1	0	0.2	0.2	-0.7	-0.67	0	0	0	0	0	0
1/4/2025 18:38	25801	SUTR_T2	3	6	3	5.63	4.33	-1.3	-0.48	-0.5	0	0	0	0	0	0
1/4/2025 18:42	11102	EGYP_T1	11	10	-1	0.68	0.73	0.05	0	0	0	0	0	0	0	0
1/4/2025 18:42	44802	EDAN_T2	0	0	0	0	0	0	-3.41	-3.43	1	1	0	1200	1200	0
1/4/2025 18:42	49803	UNIV_T1	1	4	3	5.5	6.3	0.8	-2.05	-0.8	0	0	0	0	0	0
1/4/2025 18:42	11104	EGYP_T1	2	0	-2	0.25	0	-0.25	-0.26	-0.28	1	1	0	900	900	0
1/4/2025 18:42	26703	HEML_T1	1	1	0	0.9	0	-0.9	-0.59	-0.52	1	1	0	600	600	0
1/4/2025 18:42	26701	HEML_T1	7	7	0	0.6	0.54	-0.06	0	0	0	0	0	0	0	0
1/4/2025 18:43	44802	EDAN_T2	0	0	0	0	0	0	-3.41	-3.43	1	1	0	1200	1200	0
1/4/2025 18:44	10805	CHHI_T2	1	4	3	8.1	8	-0.1	-1.36	-1.44	1	1	0	600	600	0
1/4/2025 18:44	46204	DANV_T2	89	109	20	0.47	0.22	-0.25	0	0	0	0	0	0	0	0
1/4/2025 18:44	46206	DANV_T2	2	1	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/4/2025 18:44	46203	DANV_T2	24	9	-15	0.38	0.2	-0.18	-2.55	-2.5	0	0	0	0	0	0
1/4/2025 18:44	44802	EDAN_T2	0	0	0	0	0	0	-6.82	-6.86	2	2	0	2400	2400	0
1/4/2025 18:45	26704	HEML_T2	0	0	0	0	0	0	-0.79	-0.77	1	1	0	1200	1200	0
1/4/2025 18:46	44203	POIN_T2	0	0	0	0	0	0	-0.99	-1.13	2	2	0	2100	2100	0
1/4/2025 18:46	13702	SCHN_T1	0	0	0	0	0	0	1.51	1.47	0	0	0	0	0	0
1/4/2025 18:46	46301	ROHR_T1	13	2	-11	0.67	3.4	2.73	0	0	0	0	0	0	0	0
1/4/2025 18:46	49803	UNIV_T1	1	7	6	6.3	2.4	-3.9	0	0	0	0	0	0	0	0
1/4/2025 18:46	13201	PALM_T1	41	39	-2	0.95	0.71	-0.24	-0.27	-0.28	0	0	0	0	0	0
1/4/2025 18:46	46302	ROHR_T1	8	6	-2	1.41	0.25	-1.16	-0.29	-0.32	0	0	0	0	0	0
1/4/2025 18:46	45501	DERR_T2	0	4	4	0	0	0	-0.56	-0.5	2	2	0	1800	1800	0
1/4/2025 18:46	45502	DERR_T2	3	5	2	0.53	0.33	-0.2	0	0	0	0	0	0	0	0
1/4/2025 18:47	46203	DANV_T2	4	7	3	0.65	0.37	-0.28	0	0	0	0	0	0	0	0
1/4/2025 18:47	46204	DANV_T2	108	6	-102	0.63	0.1	-0.53	0	0	0	0	0	0	0	0
1/4/2025 18:47	46206	DANV_T2	1	0	-1	0.6	0	-0.6	0.81	0.85	2	2	0	2100	2100	0
1/4/2025 18:48	13501	MCMI_T1	4	2	-2	0.6	0.7	0.1	0.48	0.48	0	0	0	0	0	0
1/4/2025 18:48	16102	BING_T2	1	1	0	5.5	4.5	-1	0	0	0	0	0	0	0	0
1/4/2025 18:48	51802	EBEN_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/4/2025 18:48	16101	BING_T2	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
1/4/2025 18:48	51804	EBEN_T2	1	1	0	0.2	0	-0.2	-1.4	-1.42	1	1	0	900	900	0
1/4/2025 18:48	11102	EGYP_T1	10	9	-1	1	0.6	-0.4	0	0	0	0	0	0	0	0
1/4/2025 18:48	11104	EGYP_T1	0	2	2	0	0	0	-0.26	-0.28	1	1	0	900	900	0
1/4/2025 18:48	13302	ORVI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 18:48	20801	LOPO_T1	67	61	-6	0.54	0.53	-0.01	0	0	0	0	0	0	0	0
1/4/2025 18:48	20802	LOPO_T1	2	8	6	0.25	0	-0.25	-0.81	-0.81	1	1	0	600	600	0
1/4/2025 18:49	52402	GRPA_T2	2	5	3	0.15	0.5	0.35	0	0	0	0	0	0	0	0
1/4/2025 18:49	45502	DERR_T2	3	5	2	0.53	0.33	-0.2	0	0	0	0	0	0	0	0
1/4/2025 18:49	52404	GRPA_T2	23	14	-9	0.52	0.18	-0.34	-0.32	-0.32	0	0	0	0	0	0
1/4/2025 18:49	52401	GRPA_T2	46	21	-25	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
1/4/2025 18:49	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 18:49	52403	GRPA_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/4/2025 18:49	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 18:49	45501	DERR_T2	0	4	4	0	0	0	-0.56	-0.5	2	2	0	1800	1800	0
1/4/2025 18:49	46101	MACI_T2	0	0	0	0	0	0	-0.59	-0.6	1	1	0	1200	1200	0
1/4/2025 18:49	56501	ROCK_T2	5	3	-2	0.66	0.85	0.19	-1.43	-1.45	0	0	0	0	0	0
1/4/2025 18:50	41802	GOCI_T2	1	2	1	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
1/4/2025 18:50	56501	ROCK_T2	5	3	-2	0.66	0.85	0.19	0	0	0	0	0	0	0	0
1/4/2025 18:50	16102	BING_T2	1	1	0	5.5	4.5	-1	0	0.06	0	0	0	0	0	0
1/4/2025 18:50	40302	TAMA_T3	1	4	3	0.3	0.2	-0.1	0.19	0.18	0	0	0	0	0	0
1/4/2025 18:50	41801	GOCI_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/4/2025 18:50	40301	TAMA_T3	2	1	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/4/2025 18:50	55001	NEWP_T1	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/4/2025 18:50	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 18:50	55002	NEWP_T1	0	4	4	0	0.48	0.48	-0.14	-0.15	0	0	0	0	0	0
1/4/2025 18:50	10801	CHHI_T1	19	34	15	0.63	0.46	-0.17	-1.91	-1.89	3	3	0	2100	2100	0
1/4/2025 18:50	56504	ROCK_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
1/4/2025 18:51	53902	HALI_T2	1	1	0	5.2	4.9	-0.3	-1.02	-0.83	0	0	0	0	0	0
1/4/2025 18:51	46204	DANV_T2	108	6	-102	0.63	0.1	-0.53	0	0	0	0	0	0	0	0
1/4/2025 18:51	46203	DANV_T2	4	7	3	0.65	0.37	-0.28	-2.55	-2.5	0	0	0	0	0	0
1/4/2025 18:51	46206	DANV_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/4/2025 18:51	53903	HALI_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
1/4/2025 18:51	28102	TWLA_T2	15	10	-5	0.74	0.47	-0.27	0.3	0.29	0	0	0	0	0	0
1/4/2025 18:52	64201	KINZ_T1	1	0	-1	1.9	0	-1.9	0	0	0	0	0	0	0	0
1/4/2025 18:52	46001	BERW_T1	3	2	-1	0.1	0	-0.1	0.86	0.82	0	0	0	0	0	0
1/4/2025 18:52	45502	DERR_T2	3	5	2	0.53	0.33	-0.2	0	0	0	0	0	0	0	0
1/4/2025 18:52	45501	DERR_T2	0	4	4	0	0	0	-0.5	-0.55	2	2	0	1800	1800	0
1/4/2025 18:52	44901	SCOT_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
1/4/2025 18:52	13201	PALM_T1	41	39	-2	0.95	0.71	-0.24	-0.28	-0.3	0	0	0	0	0	0
1/4/2025 18:52	44201	POIN_T1	0	0	0	0	0	0	-3.27	-3.38	2	2	0	2400	2400	0
1/4/2025 18:52	64203	KINZ_T1	1	0	-1	0.1	0	-0.1	-0.96	-0.97	2	2	0	900	900	0
1/4/2025 18:52	64202	KINZ_T1	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
1/4/2025 18:52	20603	GRWO_T2	18	19	1	0.82	0.27	-0.55	-0.38	-0.38	1	1	0	900	900	0
1/4/2025 18:52	64204	KINZ_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
1/4/2025 18:52	46005	BERW_T1	0	11	11	0	0.51	0.51	0	0	0	0	0	0	0	0
1/4/2025 18:53	44902	SCOT_T2	0	0	0	0	0	0	-0.86	-0.85	0	0	0	0	0	0
1/4/2025 18:53	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.36	-0.35	1	1	0	900	900	0
1/4/2025 18:53	44802	EDAN_T2	0	0	0	0	0	0	-10.29	-10.23	3	3	0	3600	3600	0
1/4/2025 18:53	23402	HONE_T2	2	4	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/4/2025 18:53	40301	TAMA_T3	2	1	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/4/2025 18:53	52002	LING_T2	6	1	-5	0.48	1	0.52	0.04	0.01	0	0	0	0	0	0
1/4/2025 18:53	52004	LING_T2	4	4	0	1.85	2.23	0.38	0	0	0	0	0	0	0	0
1/4/2025 18:53	56501	ROCK_T2	5	3	-2	0.66	0.85	0.19	-1.45	-1.44	0	0	0	0	0	0
1/4/2025 18:53	44201	POIN_T1	0	0	0	0	0	0	-1.64	-1.69	1	1	0	1200	1200	0
1/4/2025 18:53	40302	TAMA_T3	1	4	3	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/4/2025 18:53	23401	HONE_T2	16	21	5	0.62	0.4	-0.22	0	0	0	0	0	0	0	0
1/4/2025 18:53	41602	CLEV_T1	3	0	-3	0.23	0	-0.23	0	0	1	1	0	600	600	0
1/4/2025 18:54	44201	POIN_T1	0	0	0	0	0	0	-3.27	-3.38	2	2	0	2400	2400	0
1/4/2025 18:54	66902	SHIL_T2	0	0	0	0	0	0	-1.88	-1.88	0	0	0	0	0	0
1/4/2025 18:54	66901	SHIL_T2	0	0	0	0	0	0	-1.64	-1.59	1	1	0	1200	1200	0
1/4/2025 18:54	40603	PIGR_T1	10	9	-1	0.39	0.1	-0.29	0	0	0	0	0	0	0	0
1/4/2025 18:54	46203	DANV_T2	4	7	3	0.65	0.37	-0.28	-2.5	-2.5	0	0	0	0	0	0
1/4/2025 18:54	40602	PIGR_T1	1	1	0	3.2	2.6	-0.6	0	0	0	0	0	0	0	0
1/4/2025 18:54	45502	DERR_T2	3	5	2	0.53	0.33	-0.2	0	0	0	0	0	0	0	0
1/4/2025 18:54	45501	DERR_T2	0	4	4	0	0	0	-0.5	-0.55	2	2	0	1800	1800	0
1/4/2025 18:54	46204	DANV_T2	108	6	-102	0.63	0.1	-0.53	0	0	0	0	0	0	0	0
1/4/2025 18:54	44801	EDAN_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/4/2025 18:54	46206	DANV_T2	1	0	-1	0.6	0	-0.6	0.85	0.82	2	2	0	2100	2100	0
1/4/2025 18:54	13702	SCHN_T1	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
1/4/2025 18:54	54506	ENOL_T2	0	0	0	0	0	0	-0.94	-0.92	0	1	1	0	600	600
1/4/2025 18:54	14601	SWHI_T1	0	0	0	0	0	0	-1.28	-1.3	0	0	0	0	0	0
1/4/2025 18:55	52002	LING_T2	6	1	-5	0.48	1	0.52	0.04	0.01	0	0	0	0	0	0
1/4/2025 18:55	44801	EDAN_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
1/4/2025 18:55	52004	LING_T2	4	4	0	1.85	2.23	0.38	0	0	0	0	0	0	0	0
1/4/2025 18:55	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.36	-0.35	1	1	0	900	900	0
1/4/2025 18:56	53903	HALI_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
1/4/2025 18:56	45502	DERR_T2	3	5	2	0.53	0.33	-0.2	0	0	0	0	0	0	0	0
1/4/2025 18:56	50107	HARR_T3	4	2	-2	0.25	0.4	0.15	0	0	0	0	0	0	0	0
1/4/2025 18:56	10801	CHHI_T1	19	34	15	0.63	0.46	-0.17	-1.89	-1.9	3	3	0	2100	2100	0
1/4/2025 18:56	14603	SWHI_T1	0	0	0	0	0	0	-1.48	-1.47	2	2	0	1200	1200	0
1/4/2025 18:56	50105	HARR_T3	20	19	-1	2.58	3.84	1.26	0	0	0	0	0	0	0	0
1/4/2025 18:56	53902	HALI_T2	1	1	0	5.2	4.9	-0.3	-1.02	-0.83	0	0	0	0	0	0
1/4/2025 18:56	43201	MVIL_T2	11	5	-6	0.37	0.1	-0.27	0	0	0	0	0	0	0	0
1/4/2025 18:56	50102	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 18:56	50106	HARR_T3	3	14	11	1.03	0.44	-0.59	0	0	0	0	0	0	0	0
1/4/2025 18:56	45501	DERR_T2	0	4	4	0	0	0	-0.5	-0.55	2	2	0	1800	1800	0
1/4/2025 18:56	50201	HARR_T3	3	7	4	2	5.6	3.6	0	0	0	0	0	0	0	0
1/4/2025 18:56	50202	HARR_T3	7	1	-6	0.57	0	-0.57	-1.47	-1.44	0	0	0	0	0	0
1/4/2025 18:56	50103	HARR_T3	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/4/2025 18:56	43202	MVIL_T2	9	2	-7	0.43	0.8	0.37	-0.55	-0.59	0	0	0	0	0	0
1/4/2025 18:56	46302	ROHR_T1	8	6	-2	1.41	0.25	-1.16	-0.32	-0.34	0	0	0	0	0	0
1/4/2025 18:56	46301	ROHR_T1	13	2	-11	0.67	3.4	2.73	0	0	0	0	0	0	0	0
1/4/2025 18:57	13503	MCMI_T2	4	3	-1	0.23	0.15	-0.08	-0.41	-0.42	0	0	0	0	0	0
1/4/2025 18:57	52002	LING_T2	6	1	-5	0.48	1	0.52	0	0	0	0	0	0	0	0
1/4/2025 18:57	64401	LAND_T1	0	0	0	0	0	0	-0.93	-1.01	1	1	0	600	600	0
1/4/2025 18:57	53903	HALI_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
1/4/2025 18:57	65502	MOJO_T2	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
1/4/2025 18:57	44201	POIN_T1	0	0	0	0	0	0	-1.64	-1.69	1	1	0	1200	1200	0
1/4/2025 18:57	56501	ROCK_T2	5	3	-2	0.66	0.85	0.19	-1.45	-1.44	0	0	0	0	0	0
1/4/2025 18:57	43301	WATS_T2	10	0	-10	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/4/2025 18:57	53902	HALI_T2	1	1	0	5.2	4.9	-0.3	-1.02	-0.83	0	0	0	0	0	0
1/4/2025 18:57	43304	WATS_T2	12	4	-8	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
1/4/2025 18:57	60102	COCA_T1	0	0	0	0	0	0	-0.71	-0.8	2	2	0	1200	1200	0
1/4/2025 18:57	52004	LING_T2	4	4	0	1.85	2.23	0.38	0.17	0.17	0	0	0	0	0	0
1/4/2025 18:57	52502	PROG_T2	0	0	0	0	0	0	-0.22	0.7	1	0	-1	900	0	-900
1/4/2025 18:58	11102	EGYP_T1	10	9	-1	1	0.6	-0.4	0	0	0	0	0	0	0	0
1/4/2025 18:58	46204	DANV_T2	108	6	-102	0.63	0.1	-0.53	0	0	0	0	0	0	0	0
1/4/2025 18:58	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 18:58	11104	EGYP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 18:58	12006	HATF_T1	2	2	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
1/4/2025 18:58	66902	SHIL_T2	0	0	0	0	0	0	-3.76	-3.77	0	0	0	0	0	0
1/4/2025 18:58	16102	BING_T2	1	1	0	5.5	4.5	-1	0	0	0	0	0	0	0	0
1/4/2025 18:58	51802	EBEN_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/4/2025 18:58	53601	DALM_T2	1	1	0	0.4	0.8	0.4	-0.62	-0.58	0	0	0	0	0	0
1/4/2025 18:58	46206	DANV_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/4/2025 18:58	43202	MVIL_T2	9	2	-7	0.43	0.8	0.37	0	0	0	0	0	0	0	0
1/4/2025 18:58	43201	MVIL_T2	11	5	-6	0.37	0.1	-0.27	-1.22	-1.22	0	0	0	0	0	0
1/4/2025 18:58	53903	HALI_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
1/4/2025 18:58	51804	EBEN_T2	1	1	0	0.2	0	-0.2	-1.42	-1.4	1	1	0	900	900	0
1/4/2025 18:58	53902	HALI_T2	1	1	0	5.2	4.9	-0.3	-1.02	-0.83	0	0	0	0	0	0
1/4/2025 18:58	12002	HATF_T1	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
1/4/2025 18:58	16103	BING_T2	0	0	0	0	0	0	-2.08	-2.05	2	2	0	1500	1500	0
1/4/2025 18:58	12005	HATF_T1	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/4/2025 18:58	46203	DANV_T2	4	7	3	0.65	0.37	-0.28	-2.5	-2.5	0	0	0	0	0	0
1/4/2025 18:59	66902	SHIL_T2	0	0	0	0	0	0	-1.88	-1.88	0	0	0	0	0	0
1/4/2025 18:59	45802	HEGI_T2	31	45	14	0.35	0.54	0.19	-0.06	-0.06	1	1	0	900	900	0
1/4/2025 18:59	23402	HONE_T2	2	4	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/4/2025 18:59	60504	NMAN_T2	0	0	0	0	0	0	-0.71	-0.7	1	1	0	1200	1200	0
1/4/2025 18:59	23401	HONE_T2	16	21	5	0.62	0.4	-0.22	0	0	0	0	0	0	0	0
1/4/2025 18:59	43201	MVIL_T2	11	5	-6	0.37	0.1	-0.27	0	0	0	0	0	0	0	0
1/4/2025 18:59	55002	NEWP_T1	0	4	4	0	0.48	0.48	-0.15	-0.13	0	0	0	0	0	0
1/4/2025 18:59	46206	DANV_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/4/2025 18:59	55001	NEWP_T1	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/4/2025 18:59	46204	DANV_T2	108	6	-102	0.63	0.1	-0.53	0	0	0	0	0	0	0	0
1/4/2025 18:59	46203	DANV_T2	4	7	3	0.65	0.37	-0.28	-2.5	-2.5	0	0	0	0	0	0
1/4/2025 18:59	43202	MVIL_T2	9	2	-7	0.43	0.8	0.37	-1.1	-1.18	0	0	0	0	0	0
1/4/2025 18:59	44201	POIN_T1	0	0	0	0	0	0	-1.64	-1.69	1	1	0	1200	1200	0
1/4/2025 19:00	13702	SCHN_T1	0	2	2	0	0.15	0.15	0.73	0.75	0	0	0	0	0	0
1/4/2025 19:00	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 19:00	52401	GRPA_T2	9	52	43	0.26	0.41	0.15	-0.45	-0.45	0	0	0	0	0	0
1/4/2025 19:00	10801	CHHI_T1	34	35	1	0.76	0.57	-0.19	-1.89	-1.9	3	3	0	2100	2100	0
1/4/2025 19:00	52404	GRPA_T2	14	10	-4	0.48	0.18	-0.3	0	0	0	0	0	0	0	0
1/4/2025 19:00	41901	REED_T1	6	7	1	0.38	0.44	0.06	0	0	0	0	0	0	0	0
1/4/2025 19:00	55405	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 19:00	52402	GRPA_T2	1	10	9	0.5	0.5	0	0	0	0	0	0	0	0	0
1/4/2025 19:00	41902	REED_T1	22	21	-1	0.31	0.31	0	0.24	0.22	1	1	0	900	900	0
1/4/2025 19:00	13704	SCHN_T2	1	1	0	0.2	0.5	0.3	-1.42	-1.4	0	0	0	0	0	0
1/4/2025 19:00	11804	FRAN_T1	9	21	12	0.59	0.49	-0.1	0.64	0.67	0	0	0	0	0	0
1/4/2025 19:00	56501	ROCK_T2	3	3	0	0.93	0.7	-0.23	-2.9	-2.88	0	0	0	0	0	0
1/4/2025 19:01	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 19:01	44301	BEAV_T2	4	4	0	1.25	3.4	2.15	0	0	0	0	0	0	0	0
1/4/2025 19:01	67103	SPBI_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
1/4/2025 19:01	56501	ROCK_T2	3	3	0	0.93	0.7	-0.23	0	0	0	0	0	0	0	0
1/4/2025 19:01	56504	ROCK_T2	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
1/4/2025 19:01	52502	PROG_T2	0	0	0	0	0	0	-0.22	0.7	1	0	-1	900	0	-900
1/4/2025 19:01	44201	POIN_T1	0	0	0	0	0	0	-1.64	-1.69	1	1	0	1200	1200	0
1/4/2025 19:01	63802	HEMP_T1	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
1/4/2025 19:01	63804	HEMP_T1	1	7	6	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
1/4/2025 19:02	52502	PROG_T2	0	0	0	0	0	0	-0.22	0.7	1	0	-1	900	0	-900
1/4/2025 19:02	58302	NOTT_T1	0	0	0	0	0	0	-1.44	-1.37	2	2	0	2100	2100	0
1/4/2025 19:02	45802	HEGI_T2	40	39	-1	0.54	0.48	-0.06	0	0	0	0	0	0	0	0
1/4/2025 19:02	42701	AUGU_T1	4	10	6	0.38	0.3	-0.08	0	0	2	2	0	1800	1800	0
1/4/2025 19:02	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.73	-0.71	2	2	0	1800	1800	0
1/4/2025 19:02	43202	MVIL_T2	2	2	0	0.9	0.6	-0.3	-0.55	-0.59	0	0	0	0	0	0
1/4/2025 19:02	46203	DANV_T2	6	7	1	0.2	0.41	0.21	-2.5	-2.5	0	0	0	0	0	0
1/4/2025 19:02	43201	MVIL_T2	4	4	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/4/2025 19:02	56504	ROCK_T2	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
1/4/2025 19:02	46204	DANV_T2	6	3	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
1/4/2025 19:02	56501	ROCK_T2	3	3	0	0.93	0.7	-0.23	0	0	0	0	0	0	0	0
1/4/2025 19:03	66902	SHIL_T2	0	0	0	0	0	0	-1.88	-1.88	0	0	0	0	0	0
1/4/2025 19:03	53501	EVIL_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
1/4/2025 19:03	43304	WATS_T2	2	5	3	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
1/4/2025 19:03	58401	MORO_T1	1	1	0	0.4	0	-0.4	-1.47	-1.46	2	2	0	1200	1200	0
1/4/2025 19:03	53903	HALI_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
1/4/2025 19:03	53902	HALI_T2	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
1/4/2025 19:03	53502	EVIL_T2	9	0	-9	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/4/2025 19:03	63802	HEMP_T1	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
1/4/2025 19:03	52502	PROG_T2	0	0	0	0	0	0	-0.44	1.4	2	0	-2	1800	0	-1800
1/4/2025 19:03	53901	HALI_T2	0	0	0	0	0	0	-1.29	-1.3	0	0	0	0	0	0
1/4/2025 19:03	63804	HEMP_T1	1	7	6	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
1/4/2025 19:04	52002	LING_T2	1	2	1	1.9	0	-1.9	0.04	0.01	0	0	0	0	0	0
1/4/2025 19:04	52004	LING_T2	4	4	0	2.33	2.73	0.4	0	0	0	0	0	0	0	0
1/4/2025 19:05	49803	UNIV_T1	4	8	4	1.88	2.43	0.55	0	0	0	0	0	0	0	0
1/4/2025 19:05	42701	AUGU_T1	4	10	6	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
1/4/2025 19:05	49804	UNIV_T1	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
1/4/2025 19:05	66901	SHIL_T2	0	0	0	0	0	0	1.64	1.59	1	1	0	1200	1200	0
1/4/2025 19:06	53501	EVIL_T2	1	2	1	0.4	0.4	0	-0.52	-0.51	0	0	0	0	0	0
1/4/2025 19:06	53502	EVIL_T2	9	0	-9	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/4/2025 19:06	43304	WATS_T2	2	5	3	0.25	0.1	-0.15	-0.32	-0.31	0	0	0	0	0	0
1/4/2025 19:06	44905	SCOT_T1	37	41	4	0.81	0.51	-0.3	0	0	0	0	0	0	0	0
1/4/2025 19:06	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 19:07	52004	LING_T2	4	4	0	2.33	2.73	0.4	0.17	0.19	0	0	0	0	0	0
1/4/2025 19:07	51802	EBEN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 19:07	53902	HALI_T2	1	1	0	4.9	4.8	-0.1	-0.83	-0.83	0	0	0	0	0	0
1/4/2025 19:07	58401	MORO_T1	1	1	0	0.4	0	-0.4	-1.46	-1.51	2	2	0	1200	1200	0
1/4/2025 19:07	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.35	-0.36	1	1	0	900	900	0
1/4/2025 19:07	43202	MVIL_T2	2	2	0	0.9	0.6	-0.3	-0.59	-0.56	0	0	0	0	0	0
1/4/2025 19:07	51804	EBEN_T2	1	1	0	0.6	0	-0.6	-1.4	-1.42	1	1	0	900	900	0
1/4/2025 19:07	52002	LING_T2	1	2	1	1.9	0	-1.9	0.01	0.01	0	0	0	0	0	0
1/4/2025 19:07	43201	MVIL_T2	4	4	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/4/2025 19:07	53903	HALI_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
1/4/2025 19:08	42701	AUGU_T1	4	10	6	0.38	0.3	-0.08	0	0	2	2	0	1800	1800	0
1/4/2025 19:09	61001	DONV_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
1/4/2025 19:09	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 19:10	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.35	-0.36	1	1	0	900	900	0
1/4/2025 19:11	63801	HEMP_T1	0	0	0	0	0	0	-0.28	0.44	0	0	0	0	0	0
1/4/2025 19:11	63804	HEMP_T1	1	7	6	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
1/4/2025 19:11	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 19:12	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 19:12	65502	MOJO_T2	0	0	0	0	0	0	-1.02	-1.06	0	0	0	0	0	0
1/4/2025 19:13	43202	MVIL_T2	2	2	0	0.9	0.6	-0.3	-0.59	-0.56	0	0	0	0	0	0
1/4/2025 19:13	43201	MVIL_T2	4	4	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/4/2025 19:13	40603	PIGR_T1	9	14	5	0.47	0.1	-0.37	0	0	0	0	0	0	0	0
1/4/2025 19:13	40602	PIGR_T1	1	5	4	2.7	2.6	-0.1	-1.6	-1.59	1	1	0	600	600	0
1/4/2025 20:16	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/4/2025 20:16	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 0:48	45802	HEGI_T2	48	48	0	2.03	2.15	0.12	-0.15	-0.15	1	1	0	900	900	0
1/5/2025 8:33	55002	NEWP_T1	2	2	0	0.15	0.25	0.1	-0.14	-0.13	0	0	0	0	0	0
1/5/2025 8:33	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/5/2025 8:36	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	-0.73	-0.75	1	1	0	600	600	0
1/5/2025 8:36	55002	NEWP_T1	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
1/5/2025 8:40	16103	BING_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
1/5/2025 8:40	16102	BING_T2	1	1	0	6.1	4.5	-1.6	0	0	0	0	0	0	0	0
1/5/2025 8:42	16101	BING_T2	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
1/5/2025 8:42	16103	BING_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
1/5/2025 8:42	16102	BING_T2	1	1	0	6.1	4.5	-1.6	0	0	0	0	0	0	0	0
1/5/2025 8:52	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 9:00	67503	WEWI_T2	1	0	-1	0.2	0	-0.2	-0.37	-0.4	0	0	0	0	0	0
1/5/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
1/5/2025 9:00	13503	MCMI_T2	1	1	0	0.9	1	0.1	-0.51	-0.52	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/5/2025 9:00	28102	TWLA_T2	0	1	1	0	0	0	0.27	0.28	0	0	0	0	0	0
1/5/2025 9:01	63305	GREE_T1	3	4	1	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
1/5/2025 9:01	63302	GREE_T1	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
1/5/2025 9:03	52502	PROG_T2	0	1	1	0	0.1	0.1	-0.26	0.66	1	0	-1	900	0	-900
1/5/2025 9:06	14601	SWHI_T1	0	0	0	0	0	0	-1.33	-1.31	0	0	0	0	0	0
1/5/2025 9:07	56501	ROCK_T2	2	2	0	1.1	0.4	-0.7	-1.52	-1.49	0	0	0	0	0	0
1/5/2025 9:07	52502	PROG_T2	0	1	1	0	0.1	0.1	0.66	-0.28	0	1	1	0	900	900
1/5/2025 9:08	14601	SWHI_T1	0	0	0	0	0	0	-1.33	-1.31	0	0	0	0	0	0
1/5/2025 9:09	29402	BELT_T1	1	1	0	4.4	4.6	0.2	0	0	0	0	0	0	0	0
1/5/2025 9:10	29402	BELT_T1	1	1	0	4.4	4.6	0.2	0	0	0	0	0	0	0	0
1/5/2025 9:13	56501	ROCK_T2	2	2	0	1.1	0.4	-0.7	-1.52	-1.49	0	0	0	0	0	0
1/5/2025 9:15	63501	HEID_TBK1-2	24	31	7	0.19	0.27	0.08	-0.39	-0.41	1	1	0	900	900	0
1/5/2025 9:15	54506	ENOL_T2	0	0	0	0	0	0	0.24	0.18	0	0	0	0	0	0
1/5/2025 9:17	63501	HEID_TBK1-2	24	31	7	0.19	0.27	0.08	-0.78	-0.82	2	2	0	1800	1800	0
1/5/2025 9:21	41901	REED_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/5/2025 9:21	41902	REED_T1	3	7	4	0.47	0.17	-0.3	0.37	0.41	0	0	0	0	0	0
1/5/2025 9:21	40301	TAMA_T3	2	2	0	2.2	1.8	-0.4	0	0	0	0	0	0	0	0
1/5/2025 9:21	40302	TAMA_T3	0	3	3	0	0.1	0.1	0.17	0.17	0	0	0	0	0	0
1/5/2025 9:22	13704	SCHN_T2	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
1/5/2025 9:22	41901	REED_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/5/2025 9:22	41902	REED_T1	3	7	4	0.47	0.17	-0.3	0.41	0.33	0	0	0	0	0	0
1/5/2025 9:23	41901	REED_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/5/2025 9:23	41902	REED_T1	3	7	4	0.47	0.17	-0.3	0.41	0.33	0	0	0	0	0	0
1/5/2025 9:23	40301	TAMA_T3	2	2	0	2.2	1.8	-0.4	0	0	0	0	0	0	0	0
1/5/2025 9:23	40302	TAMA_T3	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/5/2025 9:24	41901	REED_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/5/2025 9:24	41902	REED_T1	3	7	4	0.47	0.17	-0.3	0.41	0.33	0	0	0	0	0	0
1/5/2025 9:24	60201	ATGL_T2	10	46	36	0.24	0.22	-0.02	-0.13	-0.19	0	0	0	0	0	0
1/5/2025 9:28	16103	BING_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/5/2025 9:28	16102	BING_T2	1	1	0	5.5	4.4	-1.1	0	0	0	0	0	0	0	0
1/5/2025 9:31	13503	MCMI_T2	1	1	0	1.1	1.3	0.2	-0.49	-0.5	0	0	0	0	0	0
1/5/2025 9:31	53501	EVIL_T2	1	2	1	0.5	0.9	0.4	-0.55	-0.59	0	0	0	0	0	0
1/5/2025 9:31	53502	EVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/5/2025 9:32	63501	HEID_TBK1-2	25	33	8	0.22	0.42	0.2	-0.41	-0.42	1	1	0	900	900	0
1/5/2025 9:33	52502	PROG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/5/2025 9:33	64203	KINZ_T1	0	0	0	0	0	0	-0.21	-0.22	1	1	0	600	600	0
1/5/2025 9:33	64204	KINZ_T1	3	31	28	0.67	0.41	-0.26	0	0	0	0	0	0	0	0
1/5/2025 9:34	52502	PROG_T2	1	0	-1	0.1	0	-0.1	-0.28	-0.12	1	1	0	900	900	0
1/5/2025 9:35	52502	PROG_T2	1	0	-1	0.1	0	-0.1	-0.28	-0.12	1	1	0	900	900	0
1/5/2025 9:35	63501	HEID_TBK1-2	25	33	8	0.22	0.42	0.2	-0.41	-0.42	1	1	0	900	900	0
1/5/2025 9:36	55002	NEWP_T1	2	1	-1	0.3	0.8	0.5	-0.12	-0.12	0	0	0	0	0	0
1/5/2025 9:37	52502	PROG_T2	1	0	-1	0.1	0	-0.1	-0.12	0.62	1	0	-1	900	0	-900
1/5/2025 9:38	65203	PRIN_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
1/5/2025 9:38	65205	PRIN_T1	1	2	1	1.7	1.8	0.1	0	0	0	0	0	0	0	0
1/5/2025 9:38	52502	PROG_T2	1	0	-1	0.1	0	-0.1	-0.12	0.62	1	0	-1	900	0	-900
1/5/2025 9:38	65202	PRIN_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
1/5/2025 9:41	45501	DERR_T2	4	3	-1	0.35	0	-0.35	-0.74	-0.77	2	2	0	1800	1800	0
1/5/2025 9:41	45502	DERR_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
1/5/2025 9:42	45502	DERR_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
1/5/2025 9:42	45501	DERR_T2	4	3	-1	0.35	0	-0.35	-0.74	-0.77	2	2	0	1800	1800	0
1/5/2025 9:43	44301	BEAV_T2	2	2	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
1/5/2025 9:43	45502	DERR_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
1/5/2025 9:43	45501	DERR_T2	4	3	-1	0.35	0	-0.35	-0.74	-0.77	2	2	0	1800	1800	0
1/5/2025 9:44	11104	EGYP_T1	30	14	-16	0.41	0.23	-0.18	0	0	0	0	0	0	0	0
1/5/2025 9:44	11102	EGYP_T1	2	6	4	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
1/5/2025 9:44	45502	DERR_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
1/5/2025 9:44	45501	DERR_T2	4	3	-1	0.35	0	-0.35	-0.74	-0.77	2	2	0	1800	1800	0
1/5/2025 9:45	23401	HONE_T2	2	9	7	0.3	0.25	-0.05	0.01	-0.05	0	0	0	0	0	0
1/5/2025 9:46	23401	HONE_T2	2	9	7	0.3	0.25	-0.05	0.01	-0.05	0	0	0	0	0	0
1/5/2025 9:46	63403	HONY_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
1/5/2025 9:48	64204	KINZ_T1	31	29	-2	0.41	0.5	0.09	0	0	0	0	0	0	0	0
1/5/2025 9:48	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 9:49	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
1/5/2025 9:49	28403	HART_T2	3	6	3	0.37	0.1	-0.27	0	0	0	0	0	0	0	0
1/5/2025 9:49	65207	PRIN_T4	4	4	0	1.78	1.83	0.05	0	0	0	0	0	0	0	0
1/5/2025 9:49	65206	PRIN_T4	2	1	-1	4.15	5.2	1.05	0	0	0	0	0	0	0	0
1/5/2025 9:56	46206	DANV_T2	1	3	2	0.1	0	-0.1	0.82	0.83	2	2	0	2100	2100	0
1/5/2025 9:56	46203	DANV_T2	6	6	0	0.33	0.5	0.17	0	0	0	0	0	0	0	0
1/5/2025 9:56	46204	DANV_T2	83	45	-38	0.45	0.31	-0.14	0	0	0	0	0	0	0	0
1/5/2025 9:58	45502	DERR_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/5/2025 9:58	46206	DANV_T2	1	3	2	0.1	0	-0.1	0.82	0.83	2	2	0	2100	2100	0
1/5/2025 9:58	45501	DERR_T2	0	3	3	0	0.5	0.5	-0.77	-0.73	2	2	0	1800	1800	0
1/5/2025 9:58	53902	HALI_T2	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
1/5/2025 9:58	53903	HALI_T2	2	3	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/5/2025 9:58	46204	DANV_T2	83	45	-38	0.45	0.31	-0.14	0	0	0	0	0	0	0	0
1/5/2025 9:58	46203	DANV_T2	6	6	0	0.33	0.5	0.17	0	0	0	0	0	0	0	0
1/5/2025 9:59	46203	DANV_T2	6	6	0	0.33	0.5	0.17	0	0	0	0	0	0	0	0
1/5/2025 9:59	46206	DANV_T2	1	3	2	0.1	0	-0.1	0.82	0.83	2	2	0	2100	2100	0
1/5/2025 9:59	46204	DANV_T2	83	45	-38	0.45	0.31	-0.14	0	0	0	0	0	0	0	0
1/5/2025 10:00	26704	HEMI_T2	0	0	0	0	0	0	-0.78	-0.8	1	1	0	1200	1200	0
1/5/2025 10:00	53902	HALI_T2	1	1	0	5	5.1	0.1	-1.67	-1.68	0	0	0	0	0	0
1/5/2025 10:00	46204	DANV_T2	44	26	-18	0.35	0.26	-0.09	0	0	0	0	0	0	0	0
1/5/2025 10:00	46203	DANV_T2	6	6	0	0.5	0.48	-0.02	-7.65	-7.62	0	0	0	0	0	0
1/5/2025 10:00	53903	HALI_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
1/5/2025 10:00	46206	DANV_T2	0	3	3	0	0.9	0.9	0	0	0	0	0	0	0	0
1/5/2025 10:01	53902	HALI_T2	1	1	0	5	5.1	0.1	-1.67	-1.68	0	0	0	0	0	0
1/5/2025 10:01	53903	HALI_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
1/5/2025 10:02	53903	HALI_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
1/5/2025 10:02	53902	HALI_T2	1	1	0	5	5.1	0.1	-0.83	-0.84	0	0	0	0	0	0
1/5/2025 10:05	43202	MVIL_T2	8	16	8	0.9	1.1	0.2	-0.57	-0.6	0	0	0	0	0	0
1/5/2025 10:05	43201	MVIL_T2	11	4	-7	0.36	0.45	0.09	0	0	0	0	0	0	0	0
1/5/2025 10:05	64204	KINZ_T1	15	60	45	0.31	0.54	0.23	0	0	0	0	0	0	0	0
1/5/2025 10:05	64203	KINZ_T1	0	0	0	0	0	0	-0.26	-0.25	1	1	0	600	600	0
1/5/2025 10:06	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/5/2025 10:06	66504	SMAN_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/5/2025 10:07	43201	MVIL_T2	11	4	-7	0.36	0.45	0.09	-1.21	-1.25	0	0	0	0	0	0
1/5/2025 10:07	43202	MVIL_T2	8	16	8	0.9	1.1	0.2	0	0	0	0	0	0	0	0
1/5/2025 10:08	66504	SMAN_T2	1	2	1	0.2	0.3	0.1	-3.34	-3.38	2	2	0	2400	2400	0
1/5/2025 10:08	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/5/2025 10:09	66502	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/5/2025 10:09	44301	BEAV_T2	2	3	1	1.7	0.8	-0.9	0	0	0	0	0	0	0	0
1/5/2025 10:09	63501	HEID_TBK1-2	33	39	6	0.42	0.52	0.1	-0.35	-0.36	1	1	0	900	900	0
1/5/2025 10:09	66504	SMAN_T2	1	2	1	0.2	0.3	0.1	-1.67	-1.69	1	1	0	1200	1200	0
1/5/2025 10:10	14404	SSLA_T1	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/5/2025 10:10	14403	SSLA_T1	17	17	0	0.69	0.55	-0.14	0.89	0.91	0	0	0	0	0	0
1/5/2025 10:10	14401	SSLA_T1	3	3	0	1.33	0.9	-0.43	0	0	0	0	0	0	0	0
1/5/2025 10:10	14402	SSLA_T1	6	1	-5	0.85	0	-0.85	0	0	0	0	0	0	0	0
1/5/2025 10:13	53501	EVIL_T2	2	2	0	0.5	0.6	0.1	-1.21	-1.21	0	0	0	0	0	0
1/5/2025 10:14	53501	EVIL_T2	2	2	0	0.5	0.6	0.1	-0.6	-0.6	0	0	0	0	0	0
1/5/2025 10:16	53501	EVIL_T2	2	3	1	0.6	0.5	-0.1	-0.6	-0.6	0	0	0	0	0	0
1/5/2025 10:17	53501	EVIL_T2	2	3	1	0.6	0.5	-0.1	-0.6	-0.6	0	0	0	0	0	0
1/5/2025 10:17	63501	HEID_TBK1-2	34	40	6	0.4	0.53	0.13	0	0	0	0	0	0	0	0
1/5/2025 10:18	44502	HAMI_T2	1	1	0	1.9	2	0.1	0.05	0.05	0	0	0	0	0	0
1/5/2025 10:18	44501	HAMI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/5/2025 10:18	13202	PALM_T2	19	19	0	0.48	0.97	0.49	-1.79	-1.84	4	4	0	3600	3600	0
1/5/2025 10:19	63401	HONY_T1	0	0	0	0	0	0	0	-0.02	1	1	0	600	600	0
1/5/2025 10:21	44901	SCOT_T2	0	0	0	0	0	0	-0.33	-0.45	0	0	0	0	0	0
1/5/2025 10:24	13702	SCHN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/5/2025 10:24	44903	SCOT_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/5/2025 10:24	44905	SCOT_T1	40	14	-26	0.72	0.4	-0.32	0	0	0	0	0	0	0	0
1/5/2025 10:25	47101	MARL_T1	10	19	9	0.67	0.54	-0.13	-0.51	-0.52	0	0	0	0	0	0
1/5/2025 10:27	53501	EVIL_T2	2	3	1	0.6	0.5	-0.1	-0.6	-0.59	0	0	0	0	0	0
1/5/2025 10:28	53501	EVIL_T2	2	3	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/5/2025 10:29	53501	EVIL_T2	2	3	1	0.6	0.5	-0.1	-0.6	-0.59	0	0	0	0	0	0
1/5/2025 10:30	11102	EGYP_T1	0	9	9	0	0.15	0.15	0	0	0	0	0	0	0	0
1/5/2025 10:30	61304	EARL_T1	0	0	0	0	0	0	-0.83	-0.86	1	1	0	600	600	0
1/5/2025 10:30	61302	EARL_T1	1	4	3	0.4	0.43	0.03	0	0	0	0	0	0	0	0
1/5/2025 10:30	11104	EGYP_T1	11	13	2	0.95	0.37	-0.58	0.58	0.5	0	0	0	0	0	0
1/5/2025 10:31	66302	MCGO_T2	1	1	0	1	0.4	-0.6	-1.47	-1.47	1	1	0	600	600	0
1/5/2025 10:31	46101	MACI_T2	0	0	0	0	0	0	-0.59	-0.58	1	1	0	1200	1200	0
1/5/2025 10:31	66303	MCGO_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/5/2025 10:34	66303	MCGO_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/5/2025 10:34	66302	MCGO_T2	1	1	0	1	0.9	-0.1	-2.94	-2.94	2	2	0	1200	1200	0
1/5/2025 10:35	58401	MORO_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	600	600	0
1/5/2025 10:35	58402	MORO_T1	1	0	-1	1.6	0	-1.6	0	0	0	0	0	0	0	0
1/5/2025 10:36	46302	ROHR_T1	2	7	5	0.25	0.47	0.22	-0.34	-0.33	0	0	0	0	0	0
1/5/2025 10:36	46301	ROHR_T1	3	3	0	1.43	3.9	2.47	0	0	0	0	0	0	0	0
1/5/2025 10:36	41902	REED_T1	1	2	1	0.7	0	-0.7	0.34	0.19	0	0	0	0	0	0
1/5/2025 10:36	41901	REED_T1	4	6	2	0.38	0.27	-0.11	0	0	0	0	0	0	0	0
1/5/2025 10:38	13201	PALM_T1	14	27	13	0.91	0.7	-0.21	-0.29	-0.28	0	0	0	0	0	0
1/5/2025 10:41	46206	DANV_T2	1	1	0	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
1/5/2025 10:41	46204	DANV_T2	20	6	-14	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
1/5/2025 10:41	46203	DANV_T2	6	9	3	0.48	0.59	0.11	-2.55	-2.64	0	0	0	0	0	0
1/5/2025 10:41	43304	WATS_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
1/5/2025 10:41	43301	WATS_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
1/5/2025 10:42	11102	EGYP_T1	0	9	9	0	0.15	0.15	0	0	0	0	0	0	0	0
1/5/2025 10:42	49803	UNIV_T1	2	1	-1	3.5	6.7	3.2	0	0	0	0	0	0	0	0
1/5/2025 10:42	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 10:42	49804	UNIV_T1	0	0	0	0	0	0	0.62	0.66	0	0	0	0	0	0
1/5/2025 10:42	11104	EGYP_T1	11	13	2	0.95	0.37	-0.58	0.5	0.54	0	0	0	0	0	0
1/5/2025 10:42	43301	WATS_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
1/5/2025 10:43	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 10:43	43301	WATS_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
1/5/2025 10:44	46203	DANV_T2	6	9	3	0.48	0.59	0.11	-5.1	-5.27	0	0	0	0	0	0
1/5/2025 10:44	46204	DANV_T2	20	6	-14	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
1/5/2025 10:44	46206	DANV_T2	1	1	0	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
1/5/2025 10:45	46203	DANV_T2	9	8	-1	0.49	0.53	0.04	-2.55	-2.64	0	0	0	0	0	0
1/5/2025 10:45	46206	DANV_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/5/2025 10:45	46204	DANV_T2	6	5	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
1/5/2025 10:46	11104	EGYP_T1	11	7	-4	0.45	1.05	0.6	0.5	0.54	0	0	0	0	0	0
1/5/2025 10:46	11102	EGYP_T1	7	8	1	0.14	0	-0.14	0	0	0	0	0	0	0	0
1/5/2025 10:47	58401	MORO_T1	0	0	0	0	0	0	-0.91	-0.95	1	1	0	600	600	0
1/5/2025 10:48	58402	MORO_T1	0	0	0	0	0	0	-0.86	-0.87	3	3	0	2400	2400	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/5/2025 10:49	43201	MVIL_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/5/2025 10:49	43202	MVIL_T2	6	6	0	0.92	0.62	-0.3	-0.61	-0.61	0	0	0	0	0	0
1/5/2025 10:50	14403	SSLA_T1	6	5	-1	0.9	0.44	-0.46	0	0	0	0	0	0	0	0
1/5/2025 10:50	58401	MORO_T1	0	0	0	0	0	0	-0.91	-0.95	1	1	0	600	600	0
1/5/2025 10:50	14401	SSLA_T1	3	9	6	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/5/2025 10:50	14402	SSLA_T1	0	5	5	0	0.23	0.23	0	0	0	0	0	0	0	0
1/5/2025 10:51	58401	MORO_T1	0	0	0	0	0	0	-0.95	-0.94	1	1	0	600	600	0
1/5/2025 10:52	43201	MVIL_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/5/2025 10:52	64101	REFR_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
1/5/2025 10:52	43202	MVIL_T2	6	6	0	0.92	0.62	-0.3	-0.61	-0.59	0	0	0	0	0	0
1/5/2025 10:53	14401	SSLA_T1	3	9	6	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/5/2025 10:53	14403	SSLA_T1	6	5	-1	0.9	0.44	-0.46	0	0	0	0	0	0	0	0
1/5/2025 10:53	14402	SSLA_T1	0	5	5	0	0.23	0.23	0	0	0	0	0	0	0	0
1/5/2025 10:54	64101	REFR_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
1/5/2025 10:55	60801	BUCK_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/5/2025 10:55	60803	BUCK_T1	2	3	1	0.2	0.2	0	0	0	0	0	0	0	0	0
1/5/2025 10:55	45302	WBER_T2	7	9	2	0.54	0.1	-0.44	0.88	0.83	0	0	0	0	0	0
1/5/2025 10:56	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 10:57	44802	EDAN_T2	0	0	0	0	0	0	-2.06	-2.12	0	0	0	0	0	0
1/5/2025 10:57	60801	BUCK_T1	1	1	0	0.1	0.4	0.3	-0.13	-0.14	0	0	0	0	0	0
1/5/2025 10:57	64101	REFR_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
1/5/2025 10:57	44801	EDAN_T2	5	1	-4	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
1/5/2025 10:57	60803	BUCK_T1	2	3	1	0.2	0.2	0	0	0	0	0	0	0	0	0
1/5/2025 10:58	44802	EDAN_T2	0	0	0	0	0	0	-6.18	-6.35	0	0	0	0	0	0
1/5/2025 10:58	44801	EDAN_T2	5	1	-4	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
1/5/2025 10:59	44802	EDAN_T2	0	0	0	0	0	0	-4.12	-4.23	0	0	0	0	0	0
1/5/2025 10:59	44801	EDAN_T2	5	1	-4	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
1/5/2025 11:01	44801	EDAN_T2	1	2	1	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
1/5/2025 11:01	44802	EDAN_T2	0	0	0	0	0	0	-2.06	-2.12	0	0	0	0	0	0
1/5/2025 11:04	64403	LAND_T1	0	0	0	0	0	0	-1.96	-1.98	1	1	0	900	900	0
1/5/2025 11:05	64101	REFR_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
1/5/2025 11:07	64101	REFR_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
1/5/2025 11:08	55105	WERT_T1	0	0	0	0	0	0	-0.41	-0.4	1	1	0	900	900	0
1/5/2025 11:08	66505	SMAN_T2	0	0	0	0	0	0	-0.09	-0.21	1	1	0	900	900	0
1/5/2025 11:08	66504	SMAN_T2	3	1	-2	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
1/5/2025 11:08	66502	SMAN_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
1/5/2025 11:09	57201	ROSS_T1	0	1	1	0	0.2	0.2	-2.16	-2.12	0	0	0	0	0	0
1/5/2025 11:09	64101	REFR_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
1/5/2025 11:09	57205	ROSS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/5/2025 11:09	44301	BEAV_T2	2	3	1	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
1/5/2025 11:10	60801	BUCK_T1	1	1	0	0.4	0.4	0	-0.14	-0.17	0	0	0	0	0	0
1/5/2025 11:10	60803	BUCK_T1	3	5	2	0.2	0.22	0.02	0	0	0	0	0	0	0	0
1/5/2025 11:11	46204	DANV_T2	3	4	1	0.23	1.2	0.97	0	0	0	0	0	0	0	0
1/5/2025 11:11	46203	DANV_T2	8	9	1	0.53	0.57	0.04	-2.64	-2.65	0	0	0	0	0	0
1/5/2025 11:11	60801	BUCK_T1	1	1	0	0.4	0.4	0	-0.14	-0.17	0	0	0	0	0	0
1/5/2025 11:11	60803	BUCK_T1	3	5	2	0.2	0.22	0.02	0	0	0	0	0	0	0	0
1/5/2025 11:11	46206	DANV_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/5/2025 11:13	44301	BEAV_T2	2	3	1	1.2	1.1	-0.1	-1.39	-1.36	1	1	0	600	600	0
1/5/2025 11:13	60201	ATGL_T2	73	117	44	0.36	0.4	0.04	-0.27	-0.18	0	0	0	0	0	0
1/5/2025 11:14	46204	DANV_T2	3	4	1	0.23	1.2	0.97	0	0	0	0	0	0	0	0
1/5/2025 11:14	46206	DANV_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/5/2025 11:14	22003	BOHE_T1	19	6	-13	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
1/5/2025 11:14	28403	HART_T2	0	0	0	0	0	0	-0.45	-0.52	1	1	0	900	900	0
1/5/2025 11:14	46203	DANV_T2	8	9	1	0.53	0.57	0.04	-2.64	-2.65	0	0	0	0	0	0
1/5/2025 11:14	22002	BOHE_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/5/2025 11:16	52401	GRPA_T2	2	4	2	0.2	0.25	0.05	0	0	0	0	0	0	0	0
1/5/2025 11:16	52403	GRPA_T2	26	50	24	0.7	0.5	-0.2	-0.62	-0.6	0	0	0	0	0	0
1/5/2025 11:16	52402	GRPA_T2	3	3	0	0.37	1.1	0.73	0	0	0	0	0	0	0	0
1/5/2025 11:17	52401	GRPA_T2	2	4	2	0.2	0.25	0.05	0	0	0	0	0	0	0	0
1/5/2025 11:17	52403	GRPA_T2	26	50	24	0.7	0.5	-0.2	-0.62	-0.6	0	0	0	0	0	0
1/5/2025 11:17	52402	GRPA_T2	3	3	0	0.37	1.1	0.73	0	0	0	0	0	0	0	0
1/5/2025 11:17	55002	NEWP_T1	4	5	1	0.83	0.76	-0.07	0	0	0	0	0	0	0	0
1/5/2025 11:17	55001	NEWP_T1	0	0	0	0	0	0	-0.76	-0.2	1	0	-1	600	0	-600
1/5/2025 11:21	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 11:22	57205	ROSS_T1	1	1	0	0.2	0.7	0.5	-0.08	-0.09	0	0	0	0	0	0
1/5/2025 11:22	55001	NEWP_T1	0	0	0	0	0	0	-0.2	-0.17	0	0	0	0	0	0
1/5/2025 11:22	57201	ROSS_T1	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
1/5/2025 11:22	55002	NEWP_T1	4	5	1	0.83	0.76	-0.07	0	0	0	0	0	0	0	0
1/5/2025 11:23	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 11:23	64101	REFR_T1	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
1/5/2025 11:24	64101	REFR_T1	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
1/5/2025 11:24	44902	SCOT_T2	0	0	0	0	0	0	-0.86	-0.89	0	0	0	0	0	0
1/5/2025 11:26	10801	CHHI_T1	1	3	2	0.6	0.8	0.2	-1.97	-2.02	3	3	0	2100	2100	0
1/5/2025 11:28	12205	FOGE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 11:30	10801	CHHI_T1	3	1	-2	0.2	0.8	0.6	-1.97	-2.02	3	3	0	2100	2100	0
1/5/2025 11:31	61001	DONV_T1	2	2	0	0.8	0.75	-0.05	0.01	0.02	0	0	0	0	0	0
1/5/2025 11:31	46802	HEPB_T1	1	1	0	1.1	1.1	0	-1.28	-1.29	0	0	0	0	0	0
1/5/2025 11:32	28403	HART_T2	0	0	0	0	0	0	-0.52	-0.55	1	1	0	900	900	0
1/5/2025 11:33	52402	GRPA_T2	3	2	-1	1.03	1.1	0.07	0	0	0	0	0	0	0	0
1/5/2025 11:33	52403	GRPA_T2	46	60	14	0.51	0.43	-0.08	-0.6	-0.64	0	0	0	0	0	0
1/5/2025 11:33	52401	GRPA_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
1/5/2025 11:35	64305	LINC_T1	1	1	0	1	0.9	-0.1	-0.64	-0.67	0	0	0	0	0	0
1/5/2025 11:38	13702	SOHN_T1	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
1/5/2025 11:39	64101	REFR_T1	0	0	0	0	0	0	0.16	0.12	0	0	0	0	0	0
1/5/2025 11:40	64101	REFR_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
1/5/2025 11:41	44302	BEAV_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/5/2025 11:41	64101	REFR_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
1/5/2025 11:41	44301	BEAV_T2	3	3	0	1.1	1.35	0.25	-2.72	-2.71	2	2	0	1200	1200	0
1/5/2025 11:42	64101	REFR_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
1/5/2025 11:44	44302	BEAV_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/5/2025 11:44	44301	BEAV_T2	3	3	0	1.1	1.35	0.25	0	0	0	0	0	0	0	0
1/5/2025 11:45	62104	ELAN_T1	0	0	0	0	0	0	0.54	0.56	2	2	0	1500	1500	0
1/5/2025 11:45	62106	ELAN_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
1/5/2025 11:46	24102	EHAZ_T1	36	28	-8	1.01	0.35	-0.66	0.13	0.15	0	0	0	0	0	0
1/5/2025 11:46	24101	EHAZ_T1	53	53	0	1.61	0.99	-0.62	0	0	0	0	0	0	0	0
1/5/2025 11:46	24103	EHAZ_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 11:46	24104	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/5/2025 11:46	24105	EHAZ_T1	14	19	5	2.26	2.88	0.62	0	0	0	0	0	0	0	0
1/5/2025 11:46	62104	ELAN_T1	0	0	0	0	0	0	0.54	0.56	2	2	0	1500	1500	0
1/5/2025 11:46	62106	ELAN_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
1/5/2025 11:47	52004	LING_T2	2	2	0	4.95	4.45	-0.5	0	0	0	0	0	0	0	0
1/5/2025 11:47	52002	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 11:48	22803	HAUT_T2	31	31	0	1.01	1.16	0.15	0	0	0	0	0	0	0	0
1/5/2025 11:48	55405	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 11:48	22805	HAUT_T2	39	43	4	1.2	0.74	-0.46	-1.26	-1.27	1	1	0	1200	1200	0
1/5/2025 11:48	13303	ORVI_T1	0	0	0	0	0	0	0.7	0.72	0	0	0	0	0	0
1/5/2025 11:51	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 11:51	44905	SCOT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 11:59	60201	ATGL_T2	113	134	21	0.41	0.4	-0.01	-0.25	-0.29	0	0	0	0	0	0
1/5/2025 12:00	40901	JESH_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
1/5/2025 12:00	40902	JESH_T1	0	0	0	0	0	0	-1.2	-1.24	1	1	0	600	600	0
1/5/2025 12:01	26701	HEML_T1	8	5	-3	0.8	0.97	0.17	0	0	0	0	0	0	0	0
1/5/2025 12:01	26703	HEML_T1	0	2	2	0	0.2	0.2	-0.61	-0.6	1	1	0	600	600	0
1/5/2025 12:02	58102	NEKI_T1	0	1	1	0	0.1	0.1	0.24	0.11	0	0	0	0	0	0
1/5/2025 12:02	58101	NEKI_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/5/2025 12:05	22001	BOHE_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
1/5/2025 12:05	66203	SISP_T2	0	0	0	0	0	0	-0.73	-0.78	1	1	0	1200	1200	0
1/5/2025 12:05	64302	LINC_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
1/5/2025 12:05	22003	BOHE_T1	11	22	11	0.25	0.39	0.14	0.2	0.2	0	0	0	0	0	0
1/5/2025 12:05	22002	BOHE_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
1/5/2025 12:05	64304	LINC_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/5/2025 12:10	60803	BUCK_T1	7	3	-4	0.26	0.23	-0.03	-0.47	-0.46	1	1	0	600	600	0
1/5/2025 12:10	20401	ASHF_T2	0	1	1	0	0	0	-0.27	-0.26	0	0	0	0	0	0
1/5/2025 12:10	66203	SISP_T2	0	0	0	0	0	0	-0.78	-0.75	1	1	0	1200	1200	0
1/5/2025 12:10	20402	ASHF_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/5/2025 12:10	60801	BUCK_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
1/5/2025 12:11	60803	BUCK_T1	7	3	-4	0.26	0.23	-0.03	-0.47	-0.46	1	1	0	600	600	0
1/5/2025 12:11	41602	CLEV_T1	1	2	1	0.2	0	-0.2	0	0	1	1	0	600	600	0
1/5/2025 12:11	60801	BUCK_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
1/5/2025 12:12	61302	EARL_T1	3	3	0	0.5	0.57	0.07	0	0	0	0	0	0	0	0
1/5/2025 12:12	61303	EARL_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
1/5/2025 12:14	10805	CHHI_T2	7	7	0	2.99	7.7	4.71	-1.12	-1.08	1	1	0	600	600	0
1/5/2025 12:14	60803	BUCK_T1	7	3	-4	0.26	0.23	-0.03	-0.94	-0.92	2	2	0	1200	1200	0
1/5/2025 12:14	10801	CHHI_T1	1	1	0	0.7	1.2	0.5	-1.97	-2	3	3	0	2100	2100	0
1/5/2025 12:14	60801	BUCK_T1	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
1/5/2025 12:15	60801	BUCK_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/5/2025 12:15	52403	GRPA_T2	71	32	-39	0.5	0.56	0.06	-0.62	-0.63	0	0	0	0	0	0
1/5/2025 12:15	52402	GRPA_T2	1	5	4	1.4	0.5	-0.9	0	0	0	0	0	0	0	0
1/5/2025 12:15	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/5/2025 12:15	60803	BUCK_T1	3	6	3	0.23	0.18	-0.05	-0.47	-0.46	1	1	0	600	600	0
1/5/2025 12:17	41801	GOCI_T2	2	3	1	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
1/5/2025 12:18	47001	HUGH_T2	3	3	0	7.87	7.73	-0.14	-1.64	-1.63	1	1	0	900	900	0
1/5/2025 12:18	47002	HUGH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/5/2025 12:21	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 12:21	60504	NMAN_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
1/5/2025 12:21	60501	NMAN_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
1/5/2025 12:22	60502	NMAN_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
1/5/2025 12:22	60504	NMAN_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
1/5/2025 12:22	60501	NMAN_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
1/5/2025 12:23	44901	SCOT_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
1/5/2025 12:23	44902	SCOT_T2	0	0	0	0	0	0	-0.88	-0.91	0	0	0	0	0	0
1/5/2025 12:24	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 12:24	60504	NMAN_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
1/5/2025 12:24	44905	SCOT_T1	2	6	4	0.45	0	-0.45	0	0	0	0	0	0	0	0
1/5/2025 12:24	60501	NMAN_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
1/5/2025 12:30	28403	HART_T2	0	0	0	0	0	0	-0.55	-0.56	1	1	0	900	900	0
1/5/2025 12:30	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/5/2025 12:30	63804	HEMP_T1	9	5	-4	1.51	1.4	-0.11	0	0	0	0	0	0	0	0
1/5/2025 12:30	63801	HEMP_T1	1	2	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
1/5/2025 12:30	63802	HEMP_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
1/5/2025 12:32	44501	HAMI_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
1/5/2025 12:32	63801	HEMP_T1	1	2	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
1/5/2025 12:32	63802	HEMP_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/5/2025 12:32	44502	HAMI_T2	1	1	0	1.9	2.5	0.6	0	0	0	0	0	0	0	0
1/5/2025 12:32	44505	HAMI_T2	0	2	2	0	0.2	0.2	0.65	0.64	0	0	0	0	0	0
1/5/2025 12:32	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/5/2025 12:32	63804	HEMP_T1	9	5	-4	1.51	1.4	-0.11	0	0	0	0	0	0	0	0
1/5/2025 12:33	44502	HAMI_T2	1	1	0	1.9	2.5	0.6	0	0	0	0	0	0	0	0
1/5/2025 12:33	44501	HAMI_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
1/5/2025 12:33	44505	HAMI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/5/2025 12:34	46506	LOHA_T1	3	3	0	1.47	2.53	1.06	0	0	0	0	0	0	0	0
1/5/2025 12:34	13503	MCMI_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
1/5/2025 12:34	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 12:34	46501	LOHA_T1	30	13	-17	0.6	1.02	0.42	0	0	0	0	0	0	0	0
1/5/2025 12:34	46503	LOHA_T1	0	0	0	0	0	0	-1.22	-1.2	0	0	0	0	0	0
1/5/2025 12:35	44905	SCOT_T1	6	2	-4	0.93	0	-0.93	0	0	0	0	0	0	0	0
1/5/2025 12:35	44904	SCOT_T1	0	0	0	0	0	0	-0.43	-0.37	0	0	0	0	0	0
1/5/2025 12:36	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 12:36	64101	REFR_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
1/5/2025 12:36	13501	MCMI_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 12:37	46301	ROHR_T1	2	1	-1	2.2	4.5	2.3	0	0	0	0	0	0	0	0
1/5/2025 12:37	64101	REFR_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
1/5/2025 12:37	46302	ROHR_T1	7	4	-3	0.44	1	0.56	-0.4	-0.38	0	0	0	0	0	0
1/5/2025 12:38	64101	REFR_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
1/5/2025 12:40	46302	ROHR_T1	7	4	-3	0.44	1	0.56	-0.4	-0.38	0	0	0	0	0	0
1/5/2025 12:40	46301	ROHR_T1	2	1	-1	2.2	4.5	2.3	0	0	0	0	0	0	0	0
1/5/2025 12:45	63804	HEMP_T1	5	5	0	1.4	6.1	4.7	0	0	0	0	0	0	0	0
1/5/2025 12:45	63803	HEMP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/5/2025 12:45	63801	HEMP_T1	1	4	3	0.9	0.35	-0.55	-0.31	-0.27	0	0	0	0	0	0
1/5/2025 12:46	46801	HEPB_T2	1	1	0	0.3	0.2	-0.1	0.65	0.67	0	0	0	0	0	0
1/5/2025 12:49	40603	PIGR_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/5/2025 12:49	40601	PIGR_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
1/5/2025 12:49	40602	PIGR_T1	1	2	1	1.5	0.65	-0.85	0	0	0	0	0	0	0	0
1/5/2025 12:56	46002	BERW_T2	0	0	0	0	0	0	-1.41	-1.45	1	1	0	900	900	0
1/5/2025 12:56	46004	BERW_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 12:57	44302	BEAV_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
1/5/2025 12:57	44301	BEAV_T2	4	10	6	0.8	0.33	-0.47	-1.4	-1.39	1	1	0	600	600	0
1/5/2025 12:58	44302	BEAV_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
1/5/2025 12:58	44301	BEAV_T2	4	10	6	0.8	0.33	-0.47	-2.79	-2.78	2	2	0	1200	1200	0
1/5/2025 13:02	64203	KINZ_T1	4	0	-4	0.28	0	-0.28	0	0	0	0	0	0	0	0
1/5/2025 13:02	64204	KINZ_T1	45	67	22	0.5	0.66	0.16	0	0	0	0	0	0	0	0
1/5/2025 13:02	64202	KINZ_T1	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
1/5/2025 13:15	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/5/2025 13:15	52402	GRPA_T2	1	1	0	0.7	0.1	-0.6	-0.71	-0.72	0	0	0	0	0	0
1/5/2025 13:15	52403	GRPA_T2	19	16	-3	0.58	0.59	0.01	0	0	0	0	0	0	0	0
1/5/2025 13:16	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/5/2025 13:16	52402	GRPA_T2	1	1	0	0.7	0.1	-0.6	-0.71	-0.72	0	0	0	0	0	0
1/5/2025 13:16	52403	GRPA_T2	19	16	-3	0.58	0.59	0.01	0	0	0	0	0	0	0	0
1/5/2025 13:17	40101	HUNT_T2	239	347	108	0.93	0.89	-0.04	-3.73	-3.7	0	0	0	0	0	0
1/5/2025 13:18	40101	HUNT_T2	239	347	108	0.93	0.89	-0.04	-1.87	-1.85	0	0	0	0	0	0
1/5/2025 13:29	50103	HARR_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 13:29	50201	HARR_T3	1	3	2	6.9	3.4	-3.5	0	0	0	0	0	0	0	0
1/5/2025 13:29	50102	HARR_T3	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/5/2025 13:29	50105	HARR_T3	15	26	11	3.15	2.29	-0.86	0	0	0	0	0	0	0	0
1/5/2025 13:29	50106	HARR_T3	10	10	0	0.41	0.43	0.02	0	0	0	0	0	0	0	0
1/5/2025 13:29	50202	HARR_T3	15	6	-9	0.45	0.35	-0.1	-1.47	-1.46	0	0	0	0	0	0
1/5/2025 13:29	50107	HARR_T3	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 13:30	20601	GRWO_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
1/5/2025 13:34	52502	PROG_T2	0	0	0	0	0	0	0.52	0.55	0	0	0	0	0	0
1/5/2025 13:35	44901	SCOT_T2	0	0	0	0	0	0	-0.43	-0.29	0	0	0	0	0	0
1/5/2025 13:39	64101	REFR_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
1/5/2025 13:40	64101	REFR_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
1/5/2025 13:54	60803	BUCK_T1	2	2	0	0.15	0.2	0.05	-0.5	-0.49	1	1	0	600	600	0
1/5/2025 13:55	64101	REFR_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
1/5/2025 13:59	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 14:21	64101	REFR_T1	0	0	0	0	0	0	0.07	0.04	0	0	0	0	0	0
1/5/2025 14:22	64101	REFR_T1	0	0	0	0	0	0	0.04	0.07	0	0	0	0	0	0
1/5/2025 14:28	53901	HALI_T2	0	0	0	0	0	0	-1.31	-1.3	0	0	0	0	0	0
1/5/2025 14:28	53903	HALI_T2	3	2	-1	0.47	0.8	0.33	0	0	0	0	0	0	0	0
1/5/2025 14:28	53902	HALI_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
1/5/2025 14:34	43202	MVIL_T2	1	2	1	0.4	1	0.6	0	0	0	0	0	0	0	0
1/5/2025 14:34	43201	MVIL_T2	0	0	0	0	0	0	-1.28	-1.28	0	0	0	0	0	0
1/5/2025 14:47	64201	KINZ_T1	1	1	0	0.3	0.1	-0.2	-0.69	-0.79	3	3	0	1500	1500	0
1/5/2025 14:47	64203	KINZ_T1	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0	0
1/5/2025 14:47	64204	KINZ_T1	24	3	-21	0.43	0.5	0.07	0	0	0	0	0	0	0	0
1/5/2025 14:50	43202	MVIL_T2	2	1	-1	0.6	1	0.4	0	0	0	0	0	0	0	0
1/5/2025 14:50	43201	MVIL_T2	0	0	0	0	0	0	-1.28	-1.28	0	0	0	0	0	0
1/5/2025 14:54	64101	REFR_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
1/5/2025 14:57	44801	EDAN_T2	0	1	1	0	0.2	0.2	-0.39	-0.37	0	0	0	0	0	0
1/5/2025 15:04	40602	PIGR_T1	1	1	0	1.6	1.6	0	-1.87	-1.82	1	1	0	600	600	0
1/5/2025 15:05	40602	PIGR_T1	1	1	0	1.6	1.6	0	-1.87	-1.82	1	1	0	600	600	0
1/5/2025 15:29	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 15:29	52401	GRPA_T2	2	1	-1	0.35	0	-0.35	-0.57	-0.54	0	0	0	0	0	0
1/5/2025 15:29	52402	GRPA_T2	1	4	3	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/5/2025 15:29	52403	GRPA_T2	2	11	9	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
1/5/2025 15:32	52401	GRPA_T2	0	2	2	0	0	0	-0.57	-0.54	0	0	0	0	0	0
1/5/2025 15:32	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 15:32	52402	GRPA_T2	4	1	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
1/5/2025 15:32	52403	GRPA_T2	7	11	4	0.67	1.65	0.98	0	0	0	0	0	0	0	0
1/5/2025 15:37	29401	BELT_T1	0	0	0	0	0	0	0	0	3	3	0	2700	2700	0
1/5/2025 15:37	29402	BELT_T1	1	1	0	5.4	4.6	-0.8	0	0	0	0	0	0	0	0
1/5/2025 15:58	12005	HATF_T1	2	6	4	0.1	0.62	0.52	0	0	0	0	0	0	0	0
1/5/2025 15:58	12001	HATF_T1	0	0	0	0	0	0	0.49	1.15	1	0	-1	600	0	-600
1/5/2025 15:58	12004	HATF_T1	0	9	9	0	0.17	0.17	0	0	0	0	0	0	0	0
1/5/2025 15:58	12006	HATF_T1	2	2	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
1/5/2025 16:00	12001	HATF_T1	0	0	0	0	0	0	0.49	1.15	1	0	-1	600	0	-600
1/5/2025 16:00	12006	HATF_T1	2	2	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
1/5/2025 16:00	12005	HATF_T1	5	6	1	0.38	0.6	0.22	0	0	0	0	0	0	0	0
1/5/2025 16:00	12004	HATF_T1	0	9	9	0	0.17	0.17	0	0	0	0	0	0	0	0
1/5/2025 16:02	12005	HATF_T1	5	6	1	0.38	0.6	0.22	0	0	0	0	0	0	0	0
1/5/2025 16:02	12004	HATF_T1	0	9	9	0	0.17	0.17	0	0	0	0	0	0	0	0
1/5/2025 16:02	12001	HATF_T1	0	0	0	0	0	0	0.49	1.15	1	0	-1	600	0	-600
1/5/2025 16:02	12006	HATF_T1	2	2	0	0.7	0.2	-0.5	0.38	0.49	0	0	0	0	0	0
1/5/2025 16:04	27604	PIRI_T1	0	0	0	0	0	0	0.96	1.06	0	0	0	0	0	0
1/5/2025 16:19	41801	GOCI_T2	1	5	4	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
1/5/2025 18:40	26704	HEML_T2	0	0	0	0	0	0	-0.8	-0.79	1	1	0	1200	1200	0
1/5/2025 18:40	26703	HEML_T1	0	1	1	0	0	0	-0.62	-0.63	1	1	0	600	600	0
1/5/2025 18:40	26701	HEML_T1	4	5	1	0.95	0.2	-0.75	0	0	0	0	0	0	0	0
1/5/2025 18:47	22003	BOHE_T1	5	92	87	0.26	0.35	0.09	0.17	0.18	0	0	0	0	0	0
1/5/2025 18:47	63403	HONY_T2	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
1/5/2025 18:47	22002	BOHE_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
1/5/2025 18:47	22001	BOHE_T1	0	81	81	0	0.27	0.27	0	0	0	0	0	0	0	0
1/5/2025 18:48	40301	TAMA_T3	4	3	-1	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
1/5/2025 18:48	46004	BERW_T2	14	56	42	0.84	0.61	-0.23	0	0	0	0	0	0	0	0
1/5/2025 18:48	46003	BERW_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
1/5/2025 18:48	46002	BERW_T2	0	0	0	0	0	0	-1.41	-1.4	1	1	0	900	900	0
1/5/2025 18:48	40302	TAMA_T3	4	3	-1	0.65	0.2	-0.45	0.21	0.25	0	0	0	0	0	0
1/5/2025 18:50	22001	BOHE_T1	0	81	81	0	0.27	0.27	0	0	0	0	0	0	0	0
1/5/2025 18:50	46302	ROHR_T1	3	5	2	0.3	0.2	-0.1	-0.3	-0.34	0	0	0	0	0	0
1/5/2025 18:50	22003	BOHE_T1	5	92	87	0.26	0.35	0.09	0	0	0	0	0	0	0	0
1/5/2025 18:50	22002	BOHE_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
1/5/2025 18:50	46301	ROHR_T1	10	8	-2	0.72	1.63	0.91	0	0	0	0	0	0	0	0
1/5/2025 18:51	62104	ELAN_T1	0	0	0	0	0	0	0.45	0.45	2	2	0	1500	1500	0
1/5/2025 18:52	13303	ORVI_T1	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
1/5/2025 18:53	66504	SMAN_T2	0	0	0	0	0	0	-3.22	-3.31	2	2	0	2400	2400	0
1/5/2025 18:53	44802	EDAN_T2	0	0	0	0	0	0	-2.09	-2.09	0	0	0	0	0	0
1/5/2025 18:53	44801	EDAN_T2	1	2	1	1.7	0.85	-0.85	0	0	0	0	0	0	0	0
1/5/2025 18:53	66505	SMAN_T2	3	4	1	0.3	0.55	0.25	0	0	0	0	0	0	0	0
1/5/2025 18:53	29401	BELT_T1	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
1/5/2025 18:53	29402	BELT_T1	1	7	6	3.9	4.2	0.3	0	0	0	0	0	0	0	0
1/5/2025 18:53	64101	REFR_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
1/5/2025 18:54	64201	KINZ_T1	0	0	0	0	0	0	-0.66	-0.66	3	3	0	1500	1500	0
1/5/2025 18:54	29402	BELT_T1	1	7	6	3.9	4.2	0.3	0	0	0	0	0	0	0	0
1/5/2025 18:54	12005	HATF_T1	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
1/5/2025 18:54	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 18:54	11102	EGYP_T1	15	11	-4	1.01	0.97	-0.04	0	0	0	0	0	0	0	0
1/5/2025 18:54	29401	BELT_T1	1	1	0	0.5	1.1	0.6	0	0	3	3	0	2700	2700	0
1/5/2025 18:54	12001	HATF_T1	0	0	0	0	0	0	0.93	0.89	0	0	0	0	0	0
1/5/2025 18:54	12006	HATF_T1	2	2	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
1/5/2025 18:54	64203	KINZ_T1	8	8	0	2.25	1.27	-0.98	0	0	0	0	0	0	0	0
1/5/2025 18:54	10801	CHHI_T1	5	1	-4	0.72	0	-0.72	-1.94	-1.93	3	3	0	2100	2100	0
1/5/2025 18:54	11104	EGYP_T1	2	21	19	0.35	0.4	0.05	-0.54	-0.54	2	2	0	1800	1800	0
1/5/2025 18:54	64204	KINZ_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
1/5/2025 18:54	63501	HEID_TBK1-2	19	35	16	0.15	0.38	0.23	-0.42	-0.47	1	1	0	900	900	0
1/5/2025 18:55	44901	SCOT_T2	0	0	0	0	0	0	-0.54	-0.49	0	0	0	0	0	0
1/5/2025 18:55	46206	DANV_T2	0	0	0	0	0	0	0.75	0.76	2	2	0	2100	2100	0
1/5/2025 18:55	40302	TAMA_T3	4	3	-1	0.65	0.2	-0.45	0	0	0	0	0	0	0	0
1/5/2025 18:55	46204	DANV_T2	99	39	-60	0.67	0.48	-0.19	0	0	0	0	0	0	0	0
1/5/2025 18:55	45302	WBER_T2	8	13	5	0.59	0.29	-0.3	0.59	0.58	0	0	0	0	0	0
1/5/2025 18:55	13503	MCMI_T2	0	1	1	0	0	0	-0.45	-0.42	0	0	0	0	0	0
1/5/2025 18:55	46203	DANV_T2	14	13	-1	0.59	0.6	0.01	-2.51	-2.54	0	0	0	0	0	0
1/5/2025 18:55	40301	TAMA_T3	4	3	-1	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
1/5/2025 18:56	24102	EHAZ_T1	4	12	8	0.5	0.58	0.08	-1.08	-1.03	0	0	0	0	0	0
1/5/2025 18:56	24103	EHAZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 18:56	44501	HAMI_T2	1	7	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
1/5/2025 18:56	62104	ELAN_T1	0	0	0	0	0	0	0.45	0.48	2	2	0	1500	1500	0
1/5/2025 18:56	24101	EHAZ_T1	86	95	9	2.23	2.04	-0.19	0	0	0	0	0	0	0	0
1/5/2025 18:56	45502	DERR_T2	4	7	3	0.8	0.58	-0.22	0	0	0	0	0	0	0	0
1/5/2025 18:56	22805	HAUT_T2	225	230	5	1.18	1.06	-0.12	-1.1	-1.09	1	1	0	1200	1200	0
1/5/2025 18:56	44502	HAMI_T2	1	2	1	2.3	2.3	0	0	0	0	0	0	0	0	0
1/5/2025 18:56	44301	BEAV_T2	3	5	2	1.9	0.86	-1.04	-1.37	-1.33	1	1	0	600	600	0
1/5/2025 18:56	24105	EHAZ_T1	12	23	11	2.76	2.29	-0.47	0	0	0	0	0	0	0	0
1/5/2025 18:56	57201	ROSS_T1	0	0	0	0	0	0	-1.07	-1.05	0	0	0	0	0	0
1/5/2025 18:56	45501	DERR_T2	0	2	2	0	0	0	-1.2	-1.09	4	4	0	3600	3600	0
1/5/2025 18:56	12006	HATF_T1	2	2	0	1.5	1.1	-0.4	0.43	0.47	0	0	0	0	0	0
1/5/2025 18:56	23401	HONE_T2	8	34	26	0.46	0.63	0.17	-0.03	-0.02	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/5/2025 18:56	43304	WATS_T2	22	19	-3	0.43	0.28	-0.15	0	0	0	0	0	0	0	0
1/5/2025 18:56	22803	HAUT_T2	134	126	-8	1.99	1.7	-0.29	0	0	0	0	0	0	0	0
1/5/2025 18:56	13702	SCHN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 18:56	12205	FOGE_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
1/5/2025 18:56	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 18:56	12005	HATF_T1	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
1/5/2025 18:56	43301	WATS_T2	4	4	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
1/5/2025 18:57	65206	PRIN_T4	2	1	-1	4.75	0	-4.75	0	0	0	0	0	0	0	0
1/5/2025 18:57	46203	DANV_T2	14	13	-1	0.59	0.6	0.01	-2.51	-2.54	0	0	0	0	0	0
1/5/2025 18:57	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
1/5/2025 18:57	46204	DANV_T2	99	39	-60	0.67	0.48	-0.19	0	0	0	0	0	0	0	0
1/5/2025 18:57	13503	MCMI_T2	0	1	1	0	0	0	-0.45	-0.42	0	0	0	0	0	0
1/5/2025 18:57	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
1/5/2025 18:57	27604	PIRI_T1	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
1/5/2025 18:57	46501	LOHA_T1	88	81	-7	0.89	0.69	-0.2	0	0	0	0	0	0	0	0
1/5/2025 18:57	53902	HALI_T2	1	2	1	4	2.6	-1.4	-0.87	-0.84	0	0	0	0	0	0
1/5/2025 18:57	65207	PRIN_T4	3	3	0	2.8	1.73	-1.07	0	0	0	0	0	0	0	0
1/5/2025 18:57	63804	HEMP_T1	1	1	0	7.1	6.2	-0.9	0	0	0	0	0	0	0	0
1/5/2025 18:57	53903	HALI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
1/5/2025 18:57	46506	LOHA_T1	4	4	0	0.63	0.43	-0.2	0	0	0	0	0	0	0	0
1/5/2025 18:57	63501	HEID_TBK1-2	19	35	16	0.15	0.38	0.23	-0.42	-0.47	1	1	0	900	900	0
1/5/2025 18:57	63802	HEMP_T1	0	0	0	0	0	0	0.19	0.26	0	0	0	0	0	0
1/5/2025 18:57	23401	HONE_T2	8	34	26	0.46	0.63	0.17	-0.03	-0.02	0	0	0	0	0	0
1/5/2025 18:58	54506	ENOL_T2	0	0	0	0	0	0	-1.08	-1.09	1	1	0	600	600	0
1/5/2025 18:58	53902	HALI_T2	1	2	1	4	2.6	-1.4	-0.87	-0.84	0	0	0	0	0	0
1/5/2025 18:58	44802	EDAN_T2	0	0	0	0	0	0	-2.09	-2.09	0	0	0	0	0	0
1/5/2025 18:58	12001	HATF_T1	0	0	0	0	0	0	0.93	0.89	0	0	0	0	0	0
1/5/2025 18:58	12006	HATF_T1	2	2	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
1/5/2025 18:58	53903	HALI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
1/5/2025 18:58	52502	PROG_T2	0	0	0	0	0	0	0.74	0.71	0	0	0	0	0	0
1/5/2025 18:58	40101	HUNT_T2	622	633	11	1.98	1.84	-0.14	-1.7	-1.71	0	0	0	0	0	0
1/5/2025 18:58	53501	EVIL_T2	1	1	0	1.9	2.4	0.5	-1.03	-1.02	0	0	0	0	0	0
1/5/2025 18:58	44801	EDAN_T2	1	2	1	1.7	0.85	-0.85	0	0	0	0	0	0	0	0
1/5/2025 18:58	12005	HATF_T1	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
1/5/2025 18:58	60801	BUCK_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
1/5/2025 18:58	64305	LINC_T1	0	0	0	0	0	0	-0.64	-0.67	0	0	0	0	0	0
1/5/2025 18:58	55405	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 18:59	64204	KINZ_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
1/5/2025 18:59	13501	MCMI_T1	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
1/5/2025 18:59	44502	HAMI_T2	1	2	1	2.3	2.3	0	0.02	0.03	0	0	0	0	0	0
1/5/2025 18:59	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 18:59	53501	EVIL_T2	1	1	0	1.9	2.4	0.5	-0.51	-0.51	0	0	0	0	0	0
1/5/2025 18:59	28403	HART_T2	1	1	0	0.1	0	-0.1	-0.48	-0.49	1	1	0	900	900	0
1/5/2025 18:59	55001	NEWP_T1	0	0	0	0	0	0	-1.49	-1.51	2	2	0	1200	1200	0
1/5/2025 18:59	60201	ATGL_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
1/5/2025 18:59	52502	PROG_T2	0	0	0	0	0	0	0.74	0.71	0	0	0	0	0	0
1/5/2025 18:59	55002	NEWP_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
1/5/2025 18:59	46203	DANV_T2	14	13	-1	0.59	0.6	0.01	-2.51	-2.54	0	0	0	0	0	0
1/5/2025 18:59	64203	KINZ_T1	8	8	0	2.25	1.27	-0.98	0	0	0	0	0	0	0	0
1/5/2025 18:59	46204	DANV_T2	99	39	-60	0.67	0.48	-0.19	0	0	0	0	0	0	0	0
1/5/2025 18:59	60803	BUCK_T1	0	0	0	0	0	0	-0.47	-0.46	1	1	0	600	600	0
1/5/2025 18:59	44905	SCOT_T1	42	54	12	0.76	0.64	-0.12	0	0	0	0	0	0	0	0
1/5/2025 18:59	44501	HAMI_T2	1	7	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
1/5/2025 18:59	60801	BUCK_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
1/5/2025 18:59	44904	SCOT_T1	0	0	0	0	0	0	-0.27	-0.34	0	0	0	0	0	0
1/5/2025 19:00	14403	SSLA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 19:00	44802	EDAN_T2	0	0	0	0	0	0	-4.18	-4.18	0	0	0	0	0	0
1/5/2025 19:00	14601	SWHI_T1	0	0	0	0	0	0	-2.5	-2.52	0	0	0	0	0	0
1/5/2025 19:00	44501	HAMI_T2	3	7	4	0.1	0.13	0.03	0	0	0	0	0	0	0	0
1/5/2025 19:00	50202	HARR_T3	14	15	1	1.11	0.34	-0.77	-1.47	-1.4	0	0	0	0	0	0
1/5/2025 19:00	46101	MACI_T2	0	0	0	0	0	0	-0.61	-0.62	1	1	0	1200	1200	0
1/5/2025 19:00	45501	DERR_T2	2	0	-2	0.1	0	-0.1	-0.6	-0.55	2	2	0	1800	1800	0
1/5/2025 19:00	64101	REFR_T1	0	0	0	0	0	0	0.18	0.22	0	0	0	0	0	0
1/5/2025 19:00	50103	HARR_T3	5	4	-1	0.54	0	-0.54	0	0	0	0	0	0	0	0
1/5/2025 19:00	63501	HEID_TBK1-2	35	11	-24	0.38	0.13	-0.25	-0.42	-0.47	1	1	0	900	900	0
1/5/2025 19:00	66203	SISP_T2	0	0	0	0	0	0	-1.39	-1.4	2	2	0	1800	1800	0
1/5/2025 19:00	43201	MVIL_T2	8	9	1	0.6	0.54	-0.06	0	0	0	0	0	0	0	0
1/5/2025 19:00	44502	HAMI_T2	2	1	-1	2.05	2.3	0.25	0	0	0	0	0	0	0	0
1/5/2025 19:00	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 19:00	46204	DANV_T2	19	38	19	0.5	0.36	-0.14	0	0	0	0	0	0	0	0
1/5/2025 19:00	50106	HARR_T3	15	15	0	0.46	0.68	0.22	0	0	0	0	0	0	0	0
1/5/2025 19:00	14602	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/5/2025 19:00	50105	HARR_T3	26	28	2	2.42	2.45	0.03	0	0	0	0	0	0	0	0
1/5/2025 19:00	44801	EDAN_T2	2	3	1	0.95	1.4	0.45	0	0	0	0	0	0	0	0
1/5/2025 19:00	44301	BEAV_T2	5	6	1	1	1.17	0.17	-1.37	-1.33	1	1	0	600	600	0
1/5/2025 19:00	14605	SWHI_T1	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/5/2025 19:00	53903	HALI_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
1/5/2025 19:00	50102	HARR_T3	1	2	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
1/5/2025 19:00	53902	HALI_T2	2	2	0	2.65	4.6	1.95	-2.61	-2.52	0	0	0	0	0	0
1/5/2025 19:00	50201	HARR_T3	7	2	-5	1	6.2	5.2	0	0	0	0	0	0	0	0
1/5/2025 19:00	45502	DERR_T2	7	4	-3	0.56	0.45	-0.11	0	0	0	0	0	0	0	0
1/5/2025 19:00	43202	MVIL_T2	4	5	1	0.6	0.6	0	-0.61	-0.59	0	0	0	0	0	0
1/5/2025 19:00	46203	DANV_T2	13	8	-5	0.67	0.69	0.02	-2.51	-2.54	0	0	0	0	0	0
1/5/2025 19:00	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 19:00	14401	SSLA_T1	6	0	-6	0.83	0	-0.83	0	0	0	0	0	0	0	0
1/5/2025 19:00	44505	HAMI_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
1/5/2025 19:01	41802	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 19:01	61303	EARL_T1	0	1	1	0	0	0	-0.01	-0.02	0	0	0	0	0	0
1/5/2025 19:01	40101	HUNT_T2	605	625	20	1.85	1.81	-0.04	-1.7	-1.71	0	0	0	0	0	0
1/5/2025 19:01	44301	BEAV_T2	5	6	1	1	1.17	0.17	-1.37	-1.33	1	1	0	600	600	0
1/5/2025 19:01	44501	HAMI_T2	3	7	4	0.1	0.13	0.03	0	0	0	0	0	0	0	0
1/5/2025 19:01	63802	HEMP_T1	0	0	0	0	0	0	0.19	0.26	0	0	0	0	0	0
1/5/2025 19:01	53903	HALI_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
1/5/2025 19:01	63501	HEID_TBK1-2	35	11	-24	0.38	0.13	-0.25	0	0	0	0	0	0	0	0
1/5/2025 19:01	53901	HALI_T2	0	0	0	0	0	0	-1.37	-1.37	0	0	0	0	0	0
1/5/2025 19:01	64101	REFR_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
1/5/2025 19:01	60201	ATGL_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
1/5/2025 19:01	58401	MORO_T1	1	1	0	0.5	0	-0.5	-1.52	-1.56	2	2	0	1200	1200	0
1/5/2025 19:01	63803	HEMP_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 19:01	63804	HEMP_T1	1	1	0	6.6	6.2	-0.4	0	0	0	0	0	0	0	0
1/5/2025 19:01	60502	NMAN_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
1/5/2025 19:01	53902	HALI_T2	2	2	0	2.65	4.6	1.95	0	0	0	0	0	0	0	0
1/5/2025 19:01	44505	HAMI_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
1/5/2025 19:01	56501	ROCK_T2	194	236	42	0.27	0.27	0	-4.82	-4.75	0	0	0	0	0	0
1/5/2025 19:01	41801	GOCI_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
1/5/2025 19:01	44502	HAMI_T2	2	1	-1	2.05	2.3	0.25	0	0	0	0	0	0	0	0
1/5/2025 19:02	52403	GRPA_T2	3	0	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
1/5/2025 19:02	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 19:02	46204	DANV_T2	19	38	19	0.5	0.36	-0.14	0	0	0	0	0	0	0	0
1/5/2025 19:02	46203	DANV_T2	13	8	-5	0.67	0.69	0.02	-5.03	-5.07	0	0	0	0	0	0
1/5/2025 19:02	11104	EGYP_T1	1	22	21	0.4	0.1	-0.3	-0.27	-0.27	1	1	0	900	900	0
1/5/2025 19:02	58102	NEKI_T1	1	1	0	0.8	0.9	0.1	-1.19	-1.1	1	1	0	1200	1200	0
1/5/2025 19:02	66505	SMAN_T2	4	2	-2	0.58	0.2	-0.38	0	0	0	0	0	0	0	0
1/5/2025 19:02	52401	GRPA_T2	2	0	-2	0.15	0	-0.15	-1.08	-1.1	0	0	0	0	0	0
1/5/2025 19:02	11102	EGYP_T1	11	10	-1	0.9	0.91	0.01	0	0	0	0	0	0	0	0
1/5/2025 19:02	10801	CHHI_T1	1	12	11	1.2	0	-1.2	-1.94	-1.93	3	3	0	2100	2100	0
1/5/2025 19:02	11101	EGYP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/5/2025 19:02	40602	PIGR_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
1/5/2025 19:02	12001	HATF_T1	0	0	0	0	0	0	0.93	0.89	0	0	0	0	0	0
1/5/2025 19:02	13202	PALM_T2	9	19	10	0.39	0.43	0.04	-1.72	-1.82	4	4	0	3600	3600	0
1/5/2025 19:02	52404	GRPA_T2	2	5	3	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/5/2025 19:02	43202	MVIL_T2	4	5	1	0.6	0.6	0	-0.61	-0.59	0	0	0	0	0	0
1/5/2025 19:02	12005	HATF_T1	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
1/5/2025 19:02	44301	BEAV_T2	5	6	1	1	1.17	0.17	-1.37	-1.33	1	1	0	600	600	0
1/5/2025 19:02	43201	MVIL_T2	8	9	1	0.6	0.54	-0.06	-1.23	-1.22	0	0	0	0	0	0
1/5/2025 19:02	12006	HATF_T1	2	2	0	1.7	1.1	-0.6	0	0	0	0	0	0	0	0
1/5/2025 19:02	66504	SMAN_T2	0	0	0	0	0	0	-1.61	-1.66	1	1	0	1200	1200	0
1/5/2025 19:02	64403	LAND_T1	0	0	0	0	0	0	-1.94	-1.94	1	1	0	900	900	0
1/5/2025 19:02	13201	PALM_T1	40	58	18	0.78	0.81	0.03	-0.3	-0.29	0	0	0	0	0	0
1/5/2025 19:02	52402	GRPA_T2	0	8	8	0	0	0	-0.81	-0.82	0	0	0	0	0	0
1/5/2025 19:02	13702	SCHN_T1	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
1/5/2025 19:03	46302	ROHR_T1	4	5	1	0.23	0.35	0.12	-0.34	-0.33	0	0	0	0	0	0
1/5/2025 19:03	40101	HUNT_T2	605	625	20	1.85	1.81	-0.04	-1.7	-1.71	0	0	0	0	0	0
1/5/2025 19:03	60801	BUCK_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
1/5/2025 19:03	44301	BEAV_T2	5	6	1	1	1.17	0.17	0	0	0	0	0	0	0	0
1/5/2025 19:03	64101	REFR_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
1/5/2025 19:03	46301	ROHR_T1	6	5	-1	1.15	1.27	0.12	0	0	0	0	0	0	0	0
1/5/2025 19:03	57205	ROSS_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
1/5/2025 19:03	46204	DANV_T2	19	38	19	0.5	0.36	-0.14	0	0	0	0	0	0	0	0
1/5/2025 19:03	53501	EVIL_T2	1	1	0	2.4	1.9	-0.5	0	0	0	0	0	0	0	0
1/5/2025 19:03	52004	LING_T2	2	2	0	3.65	3.75	0.1	0	0	0	0	0	0	0	0
1/5/2025 19:03	46203	DANV_T2	13	8	-5	0.67	0.69	0.02	-2.51	-2.54	0	0	0	0	0	0
1/5/2025 19:03	41602	CLEV_T1	2	4	2	0.15	0	-0.15	0	0	1	1	0	600	600	0
1/5/2025 19:03	52002	LING_T2	2	6	4	0.35	0.43	0.08	0	0	0	0	0	0	0	0
1/5/2025 19:04	47101	MARL_T1	122	144	22	0.98	0.95	-0.03	-0.32	-0.29	0	0	0	0	0	0
1/5/2025 19:04	10805	CHHI_T2	6	8	2	1.68	2.57	0.89	-1.37	-1.39	1	1	0	600	600	0
1/5/2025 19:04	14403	SSLA_T1	0	0	0	0	0	0	0.38	0.39	1	1	0	600	600	0
1/5/2025 19:04	52502	PROG_T2	0	0	0	0	0	0	0.74	0.71	0	0	0	0	0	0
1/5/2025 19:04	13704	SCHN_T2	1	1	0	0.7	0.4	-0.3	-0.71	-0.73	0	0	0	0	0	0
1/5/2025 19:04	45501	DERR_T2	2	0	-2	0.1	0	-0.1	-0.6	-0.55	2	2	0	1800	1800	0
1/5/2025 19:04	52404	GRPA_T2	2	5	3	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/5/2025 19:04	64202	KINZ_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
1/5/2025 19:04	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 19:04	52401	GRPA_T2	2	0	-2	0.15	0	-0.15	-1.08	-1.1	0	0	0	0	0	0
1/5/2025 19:04	10801	CHHI_T1	1	12	11	1.2	0	-1.2	-1.94	-1.93	3	3	0	2100	2100	0
1/5/2025 19:04	60803	BUCK_T1	0	0	0	0	0	0	-0.94	-0.92	2	2	0	1200	1200	0
1/5/2025 19:04	46204	DANV_T2	19	38	19	0.5	0.36	-0.14	0	0	0	0	0	0	0	0
1/5/2025 19:04	55002	NEWP_T1	2	2	0	0.3	0.5	0.2	-0.16	-0.15	0	0	0	0	0	0
1/5/2025 19:04	14401	SSLA_T1	6	0	-6	0.83	0	-0.83	0	0	0	0	0	0	0	0
1/5/2025 19:04	64203	KINZ_T1	8	6	-2	1.75	1.03	-0.72	0	0	0	0	0	0	0	0
1/5/2025 19:04	46206	DANV_T2	0	0	0	0	0	0	0.75	0.76	2	2	0	2100	2100	0
1/5/2025 19:04	64204	KINZ_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
1/5/2025 19:04	63401	HONY_T1	0	0	0	0	0	0	-0.02	-0.08	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/5/2025 19:04	46801	HEPB_T2	2	2	0	0.6	0.95	0.35	-0.27	-0.3	0	0	0	0	0	0
1/5/2025 19:04	52402	GRPA_T2	0	8	8	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 19:04	44801	EDAN_T2	2	3	1	0.95	1.4	0.45	-0.33	-0.33	0	0	0	0	0	0
1/5/2025 19:04	52403	GRPA_T2	3	0	-3	0.43	0	-0.43	0	0	0	0	0	0	0	0
1/5/2025 19:04	46203	DANV_T2	13	8	-5	0.67	0.69	0.02	-2.51	-2.54	0	0	0	0	0	0
1/5/2025 19:04	45502	DERR_T2	7	4	-3	0.56	0.45	-0.11	0	0	0	0	0	0	0	0
1/5/2025 19:05	63501	HEID_TBK1-2	35	11	-24	0.38	0.13	-0.25	-0.42	-0.47	1	1	0	900	900	0
1/5/2025 19:05	60803	BUCK_T1	0	0	0	0	0	0	-0.47	-0.46	1	1	0	600	600	0
1/5/2025 19:05	45502	DERR_T2	7	4	-3	0.56	0.45	-0.11	0	0	0	0	0	0	0	0
1/5/2025 19:05	40602	PIGR_T1	1	1	0	1.8	1.8	0	-1.65	-1.66	1	1	0	600	600	0
1/5/2025 19:05	52502	PROG_T2	0	0	0	0	0	0	0.74	0.71	0	0	0	0	0	0
1/5/2025 19:05	64101	REFR_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
1/5/2025 19:05	45501	DERR_T2	2	0	-2	0.1	0	-0.1	-0.6	-0.55	2	2	0	1800	1800	0
1/5/2025 19:05	61001	DONV_T1	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
1/5/2025 19:05	43304	WATS_T2	19	22	3	0.41	0.28	-0.13	-0.37	-0.41	0	0	0	0	0	0
1/5/2025 19:05	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 19:05	41901	REED_T1	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
1/5/2025 19:05	43301	WATS_T2	4	2	-2	0.48	0.7	0.22	0	0	0	0	0	0	0	0
1/5/2025 19:05	41902	REED_T1	28	17	-11	0.4	0.3	-0.1	0.26	0.18	0	0	0	0	0	0
1/5/2025 19:06	64101	REFR_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
1/5/2025 19:06	44905	SCOT_T1	54	40	-14	0.9	0.58	-0.32	0	0	0	0	0	0	0	0
1/5/2025 19:06	14403	SSLA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 19:06	40602	PIGR_T1	1	1	0	1.8	1.8	0	-1.65	-1.66	1	1	0	600	600	0
1/5/2025 19:06	40901	JESH_T1	1	1	0	1.9	1	-0.9	0	0	0	0	0	0	0	0
1/5/2025 19:06	44801	EDAN_T2	2	3	1	0.95	1.4	0.45	0	0	0	0	0	0	0	0
1/5/2025 19:06	52502	PROG_T2	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
1/5/2025 19:06	11101	EGYP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/5/2025 19:06	11104	EGYP_T1	1	22	21	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
1/5/2025 19:06	11102	EGYP_T1	11	10	-1	0.9	0.91	0.01	0	0	0	0	0	0	0	0
1/5/2025 19:06	43201	MVIL_T2	8	9	1	0.6	0.54	-0.06	0	0	0	0	0	0	0	0
1/5/2025 19:06	46204	DANV_T2	19	38	19	0.5	0.36	-0.14	0	0	0	0	0	0	0	0
1/5/2025 19:06	46203	DANV_T2	13	8	-5	0.67	0.69	0.02	-2.51	-2.54	0	0	0	0	0	0
1/5/2025 19:06	57201	ROSS_T1	0	0	0	0	0	0	-1.05	-1.09	0	0	0	0	0	0
1/5/2025 19:06	40902	JESH_T1	1	0	-1	0.2	0	-0.2	-1.78	-1.79	2	2	0	1200	1200	0
1/5/2025 19:06	44301	BEAV_T2	5	6	1	1	1.17	0.17	-1.37	-1.33	1	1	0	600	600	0
1/5/2025 19:06	14401	SSLA_T1	6	0	-6	0.83	0	-0.83	0	0	0	0	0	0	0	0
1/5/2025 19:06	44902	SCOT_T2	0	0	0	0	0	0	-0.85	-0.89	0	0	0	0	0	0
1/5/2025 19:06	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 19:06	43202	MVIL_T2	4	5	1	0.6	0.6	0	-0.61	-0.59	0	0	0	0	0	0
1/5/2025 19:06	44802	EDAN_T2	0	0	0	0	0	0	-2.09	-2.09	0	0	0	0	0	0
1/5/2025 19:07	44501	HAMI_T2	3	7	4	0.1	0.13	0.03	0	0	0	0	0	0	0	0
1/5/2025 19:07	58402	MORO_T1	0	0	0	0	0	0	-0.46	-0.51	3	3	0	1950	1950	0
1/5/2025 19:07	64101	REFR_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
1/5/2025 19:07	44502	HAMI_T2	2	1	-1	2.05	2.3	0.25	0	0	0	0	0	0	0	0
1/5/2025 19:07	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 19:07	44802	EDAN_T2	0	0	0	0	0	0	-4.18	-4.22	0	0	0	0	0	0
1/5/2025 19:07	58401	MORO_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/5/2025 19:07	43304	WATS_T2	19	22	3	0.41	0.28	-0.13	0	0	0	0	0	0	0	0
1/5/2025 19:07	53501	EVIL_T2	1	1	0	2.4	1.9	-0.5	-0.51	-0.55	0	0	0	0	0	0
1/5/2025 19:07	44301	BEAV_T2	5	6	1	1	1.17	0.17	-1.33	-1.4	1	1	0	600	600	0
1/5/2025 19:07	41902	REED_T1	28	17	-11	0.4	0.3	-0.1	0.18	0.24	0	0	0	0	0	0
1/5/2025 19:07	44801	EDAN_T2	2	3	1	0.95	1.4	0.45	0	0	0	0	0	0	0	0
1/5/2025 19:07	41901	REED_T1	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
1/5/2025 19:07	43301	WATS_T2	4	2	-2	0.48	0.7	0.22	0	0	0	0	0	0	0	0
1/5/2025 19:08	63804	HEMP_T1	1	1	0	6.6	6.2	-0.4	0	0	0	0	0	0	0	0
1/5/2025 19:08	53501	EVIL_T2	1	1	0	2.4	1.9	-0.5	-0.51	-0.55	0	0	0	0	0	0
1/5/2025 19:08	46501	LOHA_T1	81	74	-7	0.87	0.71	-0.16	0	0	0	0	0	0	0	0
1/5/2025 19:08	20601	GRWO_T2	11	26	15	0.94	0.85	-0.09	0	-0.01	0	0	0	0	0	0
1/5/2025 19:08	46302	ROHR_T1	4	5	1	0.23	0.35	0.12	-0.33	-0.32	0	0	0	0	0	0
1/5/2025 19:08	49803	UNIV_T1	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
1/5/2025 19:08	52401	GRPA_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
1/5/2025 19:08	44801	EDAN_T2	2	3	1	0.95	1.4	0.45	0	0	0	0	0	0	0	0
1/5/2025 19:08	20602	GRWO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/5/2025 19:08	63801	HEMP_T1	0	0	0	0	0	0	-0.29	-0.33	0	0	0	0	0	0
1/5/2025 19:08	52402	GRPA_T2	0	8	8	0	0	0	-0.82	-0.88	0	0	0	0	0	0
1/5/2025 19:08	49804	UNIV_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
1/5/2025 19:08	63803	HEMP_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 19:08	66302	MCGO_T2	0	1	1	0	0	0	-2.82	-2.73	2	2	0	1200	1200	0
1/5/2025 19:08	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.59	0	0	0	0	0	0
1/5/2025 19:08	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 19:08	65502	MOJO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/5/2025 19:08	20603	GRWO_T2	22	25	3	2.78	2.31	-0.47	0	0	0	0	0	0	0	0
1/5/2025 19:08	46301	ROHR_T1	6	5	-1	1.15	1.27	0.12	0	0	0	0	0	0	0	0
1/5/2025 19:08	52404	GRPA_T2	2	5	3	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/5/2025 19:08	52403	GRPA_T2	3	0	-3	0.43	0	-0.43	-0.68	-0.7	0	0	0	0	0	0
1/5/2025 19:08	66505	SMAN_T2	4	2	-2	0.58	0.2	-0.38	-0.32	-0.41	1	1	0	900	900	0
1/5/2025 19:08	63501	HEID_TBK1-2	35	11	-24	0.38	0.13	-0.25	-0.47	-0.45	1	1	0	900	900	0
1/5/2025 19:08	46506	LOHA_T1	2	4	2	0.55	0.37	-0.18	0	0	0	0	0	0	0	0
1/5/2025 19:09	46203	DANV_T2	13	8	-5	0.67	0.69	0.02	0	0	0	0	0	0	0	0
1/5/2025 19:09	41902	REED_T1	28	17	-11	0.4	0.3	-0.1	0.18	0.24	0	0	0	0	0	0
1/5/2025 19:09	46204	DANV_T2	19	38	19	0.5	0.36	-0.14	0	0	0	0	0	0	0	0
1/5/2025 19:09	41901	REED_T1	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
1/5/2025 19:09	58401	MORO_T1	1	1	0	0.5	0	-0.5	-3.11	-3.17	4	4	0	2400	2400	0
1/5/2025 19:09	60201	ATGL_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
1/5/2025 19:09	44905	SCOT_T1	54	40	-14	0.9	0.58	-0.32	0	0	0	0	0	0	0	0
1/5/2025 19:09	46206	DANV_T2	0	0	0	0	0	0	0.76	0.72	2	2	0	2100	2100	0
1/5/2025 19:10	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 19:10	64204	KINZ_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
1/5/2025 19:10	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 19:10	64101	REFR_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
1/5/2025 19:10	61304	EARL_T1	0	0	0	0	0	0	-0.77	-0.79	1	1	0	600	600	0
1/5/2025 19:10	64203	KINZ_T1	8	6	-2	1.75	1.03	-0.72	-0.95	-0.34	2	1	-1	900	600	-300
1/5/2025 19:11	44901	SCOT_T2	0	0	0	0	0	0	-0.49	-0.46	0	0	0	0	0	0
1/5/2025 19:11	44301	BEAV_T2	5	6	1	1.17	0.17	0	0	0	0	0	0	0	0	0
1/5/2025 19:12	64101	REFR_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
1/5/2025 19:12	53501	EVIL_T2	1	1	0	2.4	1.9	-0.5	-0.51	-0.55	0	0	0	0	0	0
1/5/2025 19:12	52502	PROG_T2	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
1/5/2025 19:13	55105	WERT_T1	0	0	0	0	0	0	-0.32	-0.3	1	1	0	900	900	0
1/5/2025 19:13	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 19:14	12205	FOGE_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
1/5/2025 19:16	12205	FOGE_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
1/5/2025 19:25	28403	HART_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/5/2025 19:27	63501	HEID_TBK1-2	1	11	10	0.1	0.13	0.03	-0.45	-0.49	1	1	0	900	900	0
1/5/2025 19:28	65202	PRIN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/5/2025 19:28	65205	PRIN_T1	2	1	-1	0.95	1.4	0.45	0	0	0	0	0	0	0	0
1/5/2025 19:29	66302	MCGO_T2	1	0	-1	0.2	0	-0.2	-1.37	-1.38	1	1	0	600	600	0
1/5/2025 20:15	13503	MCMI_T2	1	0	-1	0.9	0	-0.9	-0.43	-0.43	0	0	0	0	0	0
1/5/2025 20:30	16102	BING_T2	1	1	0	4.1	4.5	0.4	0	0	0	0	0	0	0	0
1/5/2025 20:30	16103	BING_T2	1	1	0	1.1	0.4	-0.7	0	0	0	0	0	0	0	0
1/5/2025 21:44	52403	GRPA_T2	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
1/5/2025 21:44	52402	GRPA_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/5/2025 21:44	52404	GRPA_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/6/2025 9:00	40505	CRES_T1	0	1	1	0	0	0	0.42	0.51	0	0	0	0	0	0
1/6/2025 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
1/6/2025 9:00	40503	CRES_T1	2	3	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/6/2025 9:00	67502	WEWI_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
1/6/2025 9:00	67503	WEWI_T2	1	2	1	0.4	0.5	0.1	-0.31	-0.33	0	0	0	0	0	0
1/6/2025 9:00	52502	PROG_T2	0	0	0	0	0	0	-0.24	0.68	1	0	-1	900	0	-900
1/6/2025 9:00	54506	ENOL_T2	0	0	0	0	0	0	0.27	0.28	1	1	0	600	600	0
1/6/2025 9:00	40504	CRES_T1	13	13	0	0.48	0.58	0.1	0	0	0	0	0	0	0	0
1/6/2025 14:12	21501	CEAV_T2	0	0	0	0	0	0	-0.03	-0.24	1	1	0	1200	1200	0
1/6/2025 18:32	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/6/2025 18:39	21501	CEAV_T2	0	2	2	0	0	0	-0.26	-0.27	1	1	0	1200	1200	0
1/7/2025 8:01	26704	HEML_T2	0	0	0	0	0	0	-0.76	-0.78	1	1	0	1200	1200	0
1/7/2025 8:01	26702	HEML_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 8:33	13503	MCMI_T2	0	0	0	0	0	0	-0.27	-0.32	0	0	0	0	0	0
1/7/2025 8:34	13202	PALM_T2	0	0	0	0	0	0	-2.07	-2.13	4	4	0	3600	3600	0
1/7/2025 8:53	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 8:54	66505	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/7/2025 8:54	66502	SMAN_T2	0	0	0	0	0	0	0.52	0.31	0	0	0	0	0	0
1/7/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
1/7/2025 9:00	40504	CRES_T1	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/7/2025 9:00	13202	PALM_T2	0	0	0	0	0	0	-2.11	-2.07	4	4	0	3600	3600	0
1/7/2025 9:00	13503	MCMI_T2	0	2	2	0	0	0	-0.32	-0.31	0	0	0	0	0	0
1/7/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
1/7/2025 9:00	28102	TWLA_T2	0	1	1	0	0	0	0.28	0.31	0	0	0	0	0	0
1/7/2025 9:06	43304	WATS_T2	4	5	1	0.43	0.15	-0.28	0	0	0	0	0	0	0	0
1/7/2025 9:06	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 9:09	67401	WAKE_T2	276	309	33	0.7	0.77	0.07	0	0	0	0	0	0	0	0
1/7/2025 9:09	67402	WAKE_T2	56	92	36	0.34	0.4	0.06	0.47	0.51	0	0	0	0	0	0
1/7/2025 9:09	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 9:10	67002	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/7/2025 9:10	66502	SMAN_T2	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
1/7/2025 9:10	66505	SMAN_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
1/7/2025 9:10	67001	STHI_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
1/7/2025 9:13	24102	EHAZ_T1	6	9	3	0.63	0.64	0.01	0.28	0.1	0	0	0	0	0	0
1/7/2025 9:13	24101	EHAZ_T1	49	69	20	1.26	1.13	-0.13	0	0	0	0	0	0	0	0
1/7/2025 9:13	24105	EHAZ_T1	11	16	5	2.59	2.1	-0.49	0	0	0	0	0	0	0	0
1/7/2025 9:15	26704	HEML_T2	0	0	0	0	0	0	-0.78	-0.74	1	1	0	1200	1200	0
1/7/2025 9:23	13503	MCMI_T2	0	2	2	0	0	0	-0.34	-0.4	0	0	0	0	0	0
1/7/2025 9:40	14403	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/7/2025 9:40	14401	SSLA_T1	0	3	3	0	0	0	-1.47	-1.47	2	2	0	1800	1800	0
1/7/2025 9:48	13503	MCMI_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
1/7/2025 9:51	16902	MECK_T1	90	69	-21	0.64	0.72	0.08	-2.02	-2.06	0	0	0	0	0	0
1/7/2025 9:52	13702	SCHN_T1	1	2	1	0.2	0.2	0	-0.46	-0.46	0	0	0	0	0	0
1/7/2025 9:54	13702	SCHN_T1	1	2	1	0.2	0.2	0	-0.46	-0.46	0	0	0	0	0	0
1/7/2025 9:56	45502	DERR_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/7/2025 9:56	45501	DERR_T2	2	0	-2	0.2	0	-0.2	0.44	0.58	2	2	0	1800	1800	0
1/7/2025 9:59	45502	DERR_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/7/2025 9:59	45501	DERR_T2	2	0	-2	0.2	0	-0.2	0.44	0.58	2	2	0	1800	1800	0
1/7/2025 10:03	42902	MIDD_T2	0	0	0	0	0	0	-0.62	-0.43	1	0	-1	600	0	-600
1/7/2025 10:03	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 10:03	13501	MCMI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/7/2025 10:03	42903	MIDD_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
1/7/2025 10:04	42903	MIDD_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
1/7/2025 10:04	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 10:05	41901	REED_T1	2	7	5	0.25	0.3	0.05	0	0	0	0	0	0	0	0
1/7/2025 10:05	41902	REED_T1	0	0	0	0	0	0	0.41	0.46	1	1	0	900	900	0
1/7/2025 10:08	41903	REED_T1	0	0	0	0	0	0	0.11	0.16	1	1	0	1200	1200	0
1/7/2025 10:08	41901	REED_T1	2	7	5	0.25	0.3	0.05	0	0	0	0	0	0	0	0
1/7/2025 10:14	10801	CHHI_T1	1	1	0	0.8	0.8	0	-1.74	-1.01	3	2	-1	2100	1500	-600
1/7/2025 10:17	20601	GRWO_T2	134	106	-28	0.9	0.59	-0.31	0.88	0.87	0	0	0	0	0	0
1/7/2025 10:17	20603	GRWO_T2	7	11	4	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
1/7/2025 10:19	20601	GRWO_T2	134	106	-28	0.9	0.59	-0.31	0	0	0	0	0	0	0	0
1/7/2025 10:19	20603	GRWO_T2	7	11	4	0.21	0.1	-0.11	-0.48	-0.5	1	1	0	900	900	0
1/7/2025 10:20	20603	GRWO_T2	7	11	4	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
1/7/2025 10:20	20601	GRWO_T2	134	106	-28	0.9	0.59	-0.31	0.88	0.87	0	0	0	0	0	0
1/7/2025 10:28	53501	EVIL_T2	2	0	-2	0.85	0	-0.85	-1.38	-1.35	2	2	0	1200	1200	0
1/7/2025 10:28	53502	EVIL_T2	1	14	13	0.2	0.64	0.44	0	0	0	0	0	0	0	0
1/7/2025 10:30	11104	EGYP_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 10:30	11103	EGYP_T1	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
1/7/2025 10:33	64301	LINC_T1	0	0	0	0	0	0	-0.78	0.57	0	0	0	0	0	0
1/7/2025 10:36	64301	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 10:38	66902	SHIL_T2	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
1/7/2025 10:38	66901	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/7/2025 10:39	44901	SCOT_T2	0	0	0	0	0	0	0.06	-0.14	0	0	0	0	0	0
1/7/2025 10:42	16101	BING_T2	0	1	1	0	0.1	0.1	0.54	0.53	0	0	0	0	0	0
1/7/2025 10:42	24104	EHAZ_T1	3	2	-1	0.13	0.15	0.02	-0.77	-0.78	1	1	0	1200	1200	0
1/7/2025 10:42	16102	BING_T2	1	2	1	4.6	3.8	-0.8	0	0	0	0	0	0	0	0
1/7/2025 10:42	24102	EHAZ_T1	9	43	34	1.56	0.98	-0.58	0	0	0	0	0	0	0	0
1/7/2025 10:42	24101	EHAZ_T1	62	62	0	1.36	1.25	-0.11	0	0	0	0	0	0	0	0
1/7/2025 10:42	16103	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/7/2025 10:42	24105	EHAZ_T1	5	16	11	4.68	1.92	-2.76	0	0	0	0	0	0	0	0
1/7/2025 10:43	21901	HUMB_T1	322	324	2	3.31	3.13	-0.18	-1.52	-1.6	0	0	0	0	0	0
1/7/2025 10:44	29402	BELT_T1	1	1	0	5.4	6.1	0.7	0	0	0	0	0	0	0	0
1/7/2025 10:44	10801	CHHI_T1	1	1	0	0.1	0.9	0.8	-1.01	-1.13	2	2	0	1500	1500	0
1/7/2025 10:44	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/7/2025 10:44	11101	EGYP_T1	0	0	0	0	0	0	-0.72	0.58	1	0	-1	1200	0	-1200
1/7/2025 10:44	11104	EGYP_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 10:44	17401	FOHI_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
1/7/2025 10:45	23402	HONE_T2	3	0	-3	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/7/2025 10:45	23401	HONE_T2	70	79	9	0.65	0.67	0.02	0.35	0.18	0	0	0	0	0	0
1/7/2025 10:47	63501	HEID_TBK1-2	0	0	0	0	0	0	0.17	0.11	1	1	0	900	900	0
1/7/2025 10:48	63501	HEID_TBK1-2	0	0	0	0	0	0	0.17	0.11	1	1	0	900	900	0
1/7/2025 10:49	64501	LAVI_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
1/7/2025 10:50	20802	LOPO_T1	12	8	-4	0.54	0.5	-0.04	-0.87	-0.88	1	1	0	600	600	0
1/7/2025 10:50	20801	LOPO_T1	66	56	-10	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
1/7/2025 10:52	41902	REED_T1	4	2	-2	0.38	0	-0.38	0.48	0.39	1	1	0	900	900	0
1/7/2025 10:52	41901	REED_T1	8	7	-1	0.55	0.56	0.01	0	0	0	0	0	0	0	0
1/7/2025 10:56	15103	UPHA_T2	1	20	19	0.1	0.11	0.01	-0.77	-0.73	0	0	0	0	0	0
1/7/2025 11:00	53501	EVIL_T2	1	1	0	0.1	0.4	0.3	-1.45	-1.35	2	2	0	1200	1200	0
1/7/2025 11:00	40603	PIGR_T1	2	1	-1	0.95	0	-0.95	0	0	0	0	0	0	0	0
1/7/2025 11:00	40601	PIGR_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/7/2025 11:00	53502	EVIL_T2	13	11	-2	1.2	0	-1.2	0	0	0	0	0	0	0	0
1/7/2025 11:00	40602	PIGR_T1	0	0	0	0	0	0	-1.48	-1.53	1	1	0	600	600	0
1/7/2025 11:03	46206	DANV_T2	7	10	3	1.26	0.4	-0.86	0	0	0	0	0	0	0	0
1/7/2025 11:03	46204	DANV_T2	2	3	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
1/7/2025 11:03	43304	WATS_T2	0	0	0	0	0	0	-0.28	-0.27	1	1	0	600	600	0
1/7/2025 11:03	46203	DANV_T2	1	1	0	0.2	0	-0.2	-0.39	-0.45	0	0	0	0	0	0
1/7/2025 11:04	43304	WATS_T2	0	0	0	0	0	0	-0.28	-0.27	1	1	0	600	600	0
1/7/2025 11:05	46206	DANV_T2	7	10	3	1.26	0.4	-0.86	0	0	0	0	0	0	0	0
1/7/2025 11:05	63501	HEID_TBK1-2	0	0	0	0	0	0	0.11	0.16	1	1	0	900	900	0
1/7/2025 11:05	46203	DANV_T2	1	1	0	0.2	0	-0.2	-0.39	-0.45	0	0	0	0	0	0
1/7/2025 11:05	46204	DANV_T2	2	3	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
1/7/2025 11:06	46203	DANV_T2	1	1	0	0.2	0	-0.2	-0.39	-0.45	0	0	0	0	0	0
1/7/2025 11:06	46206	DANV_T2	7	10	3	1.26	0.4	-0.86	2.42	2.51	2	2	0	2100	2100	0
1/7/2025 11:06	46204	DANV_T2	2	3	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
1/7/2025 11:07	55101	WERT_T1	0	0	0	0	0	0	-1.28	-1.38	2	2	0	1500	1500	0
1/7/2025 11:07	46204	DANV_T2	2	3	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
1/7/2025 11:07	46203	DANV_T2	1	1	0	0.2	0	-0.2	-0.45	-0.45	0	0	0	0	0	0
1/7/2025 11:07	46206	DANV_T2	7	10	3	1.26	0.4	-0.86	0	0	0	0	0	0	0	0
1/7/2025 11:08	41901	REED_T1	7	8	1	0.56	0.46	-0.1	0	0	0	0	0	0	0	0
1/7/2025 11:08	41902	REED_T1	2	0	-2	0.2	0	-0.2	0.39	0.33	1	1	0	900	900	0
1/7/2025 11:09	46206	DANV_T2	7	10	3	1.26	0.4	-0.86	2.51	2.5	2	2	0	2100	2100	0
1/7/2025 11:09	46204	DANV_T2	2	3	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
1/7/2025 11:09	46203	DANV_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/7/2025 11:10	10801	CHHI_T1	1	1	0	0.9	0.5	-0.4	-1.08	-1.08	2	2	0	1500	1500	0
1/7/2025 11:11	55101	WERT_T1	0	0	0	0	0	0	-1.28	-1.38	2	2	0	1500	1500	0
1/7/2025 11:15	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 11:15	53501	EVIL_T2	1	1	0	0.2	0.4	0.2	-1.35	-1.37	2	2	0	1200	1200	0
1/7/2025 11:15	53502	EVIL_T2	0	11	11	0	0.1	0.1	0	0	0	0	0	0	0	0
1/7/2025 11:15	45501	DERR_T2	0	0	0	0	0	0	0.49	0.55	2	2	0	1800	1800	0
1/7/2025 11:18	43304	WATS_T2	0	0	0	0	0	0	-0.27	-0.33	1	1	0	600	600	0
1/7/2025 11:21	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 11:23	44902	SCOT_T2	0	0	0	0	0	0	-0.89	-0.87	0	0	0	0	0	0
1/7/2025 11:27	49803	UNIV_T1	1	1	0	6.8	6.3	-0.5	0	0	0	0	0	0	0	0
1/7/2025 11:27	49804	UNIV_T1	1	0	-1	0.2	0	-0.2	0.62	0.59	0	0	0	0	0	0
1/7/2025 11:28	54504	ENOL_T2	0	0	0	0	0	0	0.97	0.97	1	1	0	600	600	0
1/7/2025 11:28	54505	ENOL_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
1/7/2025 11:28	10801	CHHI_T1	1	0	-1	0.5	0	-0.5	-1.08	-1.16	2	2	0	1500	1500	0
1/7/2025 11:29	44801	EDAN_T2	0	1	1	0	0.1	0.1	-0.3	-0.25	0	0	0	0	0	0
1/7/2025 11:33	46802	HEPB_T1	31	88	57	0.24	0.18	-0.06	-1.16	-1.16	0	0	0	0	0	0
1/7/2025 11:37	54601	SUMM_T2	6	6	0	0.33	0.32	-0.01	-1.78	-1.74	2	2	0	2100	2100	0
1/7/2025 11:39	41901	REED_T1	7	8	1	0.47	0.35	-0.12	0	0	0	0	0	0	0	0
1/7/2025 11:39	41902	REED_T1	0	0	0	0	0	0	0.43	0.37	1	1	0	900	900	0
1/7/2025 11:41	54601	SUMM_T2	6	6	0	0.33	0.32	-0.01	-1.78	-1.74	2	2	0	2100	2100	0
1/7/2025 11:42	48301	ORWI_T1	2	47	45	5.25	5.2	-0.05	-0.25	-0.29	1	1	0	900	900	0
1/7/2025 11:43	29402	BELT_T1	1	1	0	5.9	6.2	0.3	0	0	0	0	0	0	0	0
1/7/2025 11:43	60201	ATGL_T2	11	50	39	0.36	0.25	-0.11	0.36	0.23	0	0	0	0	0	0
1/7/2025 11:44	29402	BELT_T1	1	1	0	5.9	6.2	0.3	0	0	0	0	0	0	0	0
1/7/2025 11:44	44301	BEAV_T2	1	1	0	2.1	1.9	-0.2	0	0	0	0	0	0	0	0
1/7/2025 11:44	10805	CHHI_T2	6	1	-5	1.78	7.3	5.52	-0.71	-0.77	1	1	0	600	600	0
1/7/2025 11:45	54502	ENOL_T2	0	0	0	0	0	0	-2	-1.99	1	1	0	600	600	0
1/7/2025 11:45	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
1/7/2025 11:46	46801	HEPB_T2	15	25	10	0.21	0.23	0.02	0	0	0	0	0	0	0	0
1/7/2025 11:46	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 11:46	44502	HAMI_T2	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
1/7/2025 11:46	46803	HEPB_T2	3	10	7	0.33	0.19	-0.14	0.55	0.52	0	0	0	0	0	0
1/7/2025 11:46	42401	GIMA_T1	31	51	20	0.27	0.28	0.01	0	0	0	0	0	0	0	0
1/7/2025 11:47	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 11:47	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 11:47	44502	HAMI_T2	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
1/7/2025 11:48	44502	HAMI_T2	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
1/7/2025 11:48	44505	HAMI_T2	0	0	0	0	0	0	-0.12	-0.06	0	0	0	0	0	0
1/7/2025 11:49	44502	HAMI_T2	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
1/7/2025 11:49	45802	HEGI_T2	1	27	26	0.1	0.51	0.41	0.59	0.55	1	1	0	900	900	0
1/7/2025 11:49	44505	HAMI_T2	0	0	0	0	0	0	-0.12	-0.06	0	0	0	0	0	0
1/7/2025 11:51	45802	HEGI_T2	1	27	26	0.1	0.51	0.41	0	0	0	0	0	0	0	0
1/7/2025 11:52	45802	HEGI_T2	1	27	26	0.1	0.51	0.41	0.55	0.69	1	1	0	900	900	0
1/7/2025 11:52	44902	SCOT_T2	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
1/7/2025 11:53	64101	REFR_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
1/7/2025 11:55	41902	REED_T1	0	0	0	0	0	0	0.37	0.33	1	1	0	900	900	0
1/7/2025 11:55	41901	REED_T1	7	9	2	0.36	0.62	0.26	0	0	0	0	0	0	0	0
1/7/2025 11:56	44905	SCOT_T1	2	5	3	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/7/2025 11:58	11104	EGYP_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
1/7/2025 11:58	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 12:00	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 12:00	11104	EGYP_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
1/7/2025 12:02	64402	LAND_T2	0	0	0	0	0	0	-0.31	-0.28	1	1	0	600	600	0
1/7/2025 12:02	14603	SWHI_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/7/2025 12:02	46402	FLEM_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
1/7/2025 12:02	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 12:03	47001	HUGH_T2	3	3	0	7	7.43	0.43	-0.55	-0.58	0	0	0	0	0	0
1/7/2025 12:03	47002	HUGH_T2	2	1	-1	0.85	0.3	-0.55	0	0	0	0	0	0	0	0
1/7/2025 12:04	64503	LAVI_T1	0	0	0	0	0	0	-1.45	-1.38	1	1	0	1200	1200	0
1/7/2025 12:04	13104	NHAM_T1	9	0	-9	0.72	0	-0.72	0	0	0	0	0	0	0	0
1/7/2025 12:04	13101	NHAM_T1	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
1/7/2025 12:05	64503	LAVI_T1	0	0	0	0	0	0	-2.9	-2.77	2	2	0	2400	2400	0
1/7/2025 12:05	41902	REED_T1	0	1	1	0	0	0	0.37	0.33	1	1	0	900	900	0
1/7/2025 12:05	41901	REED_T1	7	9	2	0.39	0.64	0.25	0	0	0	0	0	0	0	0
1/7/2025 12:05	46602	LACR_T1	2	5	3	0.85	0.5	-0.35	-0.79	-0.79	0	0	0	0	0	0
1/7/2025 12:08	10705	CATA_T2	0	2	2	0	1.3	1.3	-0.8	-0.76	1	1	0	900	900	0
1/7/2025 12:09	26703	HEML_T1	0	0	0	0	0	0	-0.62	-0.6	1	1	0	600	600	0
1/7/2025 12:09	26701	HEML_T1	4	3	-1	1.1	1.23	0.13	0	0	0	0	0	0	0	0
1/7/2025 12:10	13702	SCHN_T1	0	1	1	0	0	0	1.48	1.41	0	0	0	0	0	0
1/7/2025 12:10	13705	SCHN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 12:12	10805	CHHI_T2	1	6	5	7.3	6.9	-0.4	-0.88	-0.85	1	1	0	600	600	0
1/7/2025 12:15	40702	FFLD_T1	2	2	0	0.3	0.3	0	-0.59	-0.61	0	0	0	0	0	0
1/7/2025 12:15	61001	DONV_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
1/7/2025 12:15	40701	FFLD_T1	29	26	-3	0.33	0.37	0.04	0	0	0	0	0	0	0	0
1/7/2025 12:15	40703	FFLD_T1	2	3	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
1/7/2025 12:16	54505	ENOL_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
1/7/2025 12:16	54504	ENOL_T2	0	0	0	0	0	0	-0.99	-0.96	1	1	0	600	600	0
1/7/2025 12:17	40701	FFLD_T1	29	26	-3	0.33	0.37	0.04	0	0	0	0	0	0	0	0
1/7/2025 12:17	40703	FFLD_T1	2	3	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
1/7/2025 12:17	40702	FFLD_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/7/2025 12:18	40601	PIGR_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/7/2025 12:18	45501	DERR_T2	0	1	1	0	0.1	0.1	0.57	0.44	2	2	0	1800	1800	0
1/7/2025 12:18	47802	MOCA_T2	0	0	0	0	0	0	-1.48	-1.52	0	0	0	0	0	0
1/7/2025 12:18	40602	PIGR_T1	0	0	0	0	0	0	-1.6	-1.62	1	1	0	600	600	0
1/7/2025 12:19	15601	NSTR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 12:19	15603	NSTR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/7/2025 12:20	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
1/7/2025 12:20	64101	REFR_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
1/7/2025 12:21	65702	RVIL_T2	0	0	0	0	0	0	-1.4	-1.38	1	1	0	600	600	0
1/7/2025 12:21	44201	POIN_T1	40	91	51	0.17	0.27	0.1	-2.01	-2.01	2	2	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/7/2025 12:22	14204	EALL_T2	0	0	0	0	0	0	0.29	0.19	0	0	0	0	0	0
1/7/2025 12:22	15601	NSTR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 12:22	14205	EALL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/7/2025 12:22	13701	SCHN_T2	0	0	0	0	0	0	0.05	0.04	1	1	0	600	600	0
1/7/2025 12:22	14801	TREI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/7/2025 12:22	15603	NSTR_T2	1	0	-1	0.1	0	-0.1	0	0	1	0	0	0	0	0
1/7/2025 12:22	14802	TREI_T2	1	0	-1	0.2	0	-0.2	0.56	0.57	0	0	0	0	0	0
1/7/2025 12:22	44201	POIN_T1	40	91	51	0.17	0.27	0.1	-2.01	-1.94	2	2	0	2100	2100	0
1/7/2025 12:23	15603	NSTR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/7/2025 12:23	15601	NSTR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 12:23	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 12:23	46206	DANV_T2	0	0	0	0	0	0	2.16	2.14	2	2	0	2100	2100	0
1/7/2025 12:24	14802	TREI_T2	1	0	-1	0.2	0	-0.2	0.56	0.57	0	0	0	0	0	0
1/7/2025 12:24	14801	TREI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/7/2025 12:25	64101	REFR_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
1/7/2025 12:25	15603	NSTR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/7/2025 12:25	15601	NSTR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 12:27	44302	BEAV_T2	35	7	-28	0.2	0.11	-0.09	0.28	0.26	0	0	0	0	0	0
1/7/2025 12:27	54601	SUMM_T2	5	5	0	0.3	0.34	0.04	0	0	0	0	0	0	0	0
1/7/2025 12:27	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 12:27	44301	BEAV_T2	2	3	1	0.7	0.8	0.1	0	0	0	0	0	0	0	0
1/7/2025 12:29	61701	ELIZ_T1	1	1	0	5.4	5.8	0.4	0	0	0	0	0	0	0	0
1/7/2025 12:29	61703	ELIZ_T1	106	49	-57	0.31	0.18	-0.13	-3.14	-2.54	2	2	0	2100	2100	0
1/7/2025 12:32	61701	ELIZ_T1	1	1	0	5.8	5	-0.8	0	0	0	0	0	0	0	0
1/7/2025 12:32	61703	ELIZ_T1	49	0	-49	0.18	0	-0.18	-3.14	-2.54	2	2	0	2100	2100	0
1/7/2025 12:33	61701	ELIZ_T1	1	1	0	5.8	5	-0.8	0.23	0.29	0	0	0	0	0	0
1/7/2025 12:33	61703	ELIZ_T1	49	0	-49	0.18	0	-0.18	0	0	0	0	0	0	0	0
1/7/2025 12:34	52502	PROG_T2	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
1/7/2025 12:35	52502	PROG_T2	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
1/7/2025 12:35	64801	MONE_T2	1	5	4	0.3	0.12	-0.18	0	0	0	0	0	0	0	0
1/7/2025 12:35	64802	MONE_T2	8	21	13	0.16	0.21	0.05	0	0	0	0	0	0	0	0
1/7/2025 12:37	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 12:39	52502	PROG_T2	0	0	0	0	0	0	1.09	1.05	0	0	0	0	0	0
1/7/2025 12:41	46002	BERW_T2	0	0	0	0	0	0	-0.58	-0.46	1	1	0	900	900	0
1/7/2025 12:43	61305	EARL_T1	0	0	0	0	0	0	0.45	0.46	2	2	0	1500	1500	0
1/7/2025 12:43	45501	DERR_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
1/7/2025 12:43	45502	DERR_T2	0	0	0	0	0	0	-0.58	-0.57	0	0	0	0	0	0
1/7/2025 12:44	61303	EARL_T1	0	0	0	0	0	0	0.77	0.84	0	0	0	0	0	0
1/7/2025 12:46	62604	ENGL_T1	40	39	-1	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
1/7/2025 12:46	62602	ENGL_T1	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/7/2025 12:46	62605	ENGL_T1	78	82	4	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
1/7/2025 12:46	62606	ENGL_T1	173	180	7	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
1/7/2025 12:46	62607	ENGL_T1	1	2	1	0.7	0.45	-0.25	-0.63	-0.6	0	0	0	0	0	0
1/7/2025 12:48	54601	SUMM_T2	4	5	1	0.28	0.32	0.04	-1.78	-1.73	2	2	0	2100	2100	0
1/7/2025 12:51	64101	REFR_T1	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
1/7/2025 12:52	64101	REFR_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
1/7/2025 13:03	40902	JESH_T1	0	0	0	0	0	0	-1.03	-1.15	1	1	0	600	600	0
1/7/2025 13:03	40901	JESH_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
1/7/2025 13:04	64901	MILL_T1	42	37	-5	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
1/7/2025 13:04	64904	MILL_T1	2	2	0	0.15	0.1	-0.05	-0.3	-0.26	0	0	0	0	0	0
1/7/2025 13:07	56501	ROCK_T2	0	66	66	0	0.2	0.2	-1.6	-1.63	0	0	0	0	0	0
1/7/2025 13:07	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 13:08	60502	NMAN_T2	0	0	0	0	0	0	-0.11	-0.07	0	0	0	0	0	0
1/7/2025 13:08	10206	ALLE_T2	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
1/7/2025 13:08	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 13:08	51201	MTON_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 13:08	10102	ALLE_T2	44	35	-9	3.33	2.78	-0.55	0	0	0	0	0	0	0	0
1/7/2025 13:08	58401	MORO_T1	0	0	0	0	0	0	-0.92	-0.87	1	1	0	600	600	0
1/7/2025 13:10	10206	ALLE_T2	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
1/7/2025 13:10	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 13:10	10102	ALLE_T2	44	35	-9	3.33	2.78	-0.55	0	0	0	0	0	0	0	0
1/7/2025 13:10	15001	BLMO_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/7/2025 13:15	41801	GOCI_T2	1	2	1	0.7	0.7	0	0	0	0	0	0	0	0	0
1/7/2025 13:16	11302	EMMA_T1	0	12	12	0	0.2	0.2	0	0	0	0	0	0	0	0
1/7/2025 13:16	11303	EMMA_T1	1	4	3	0.2	0.35	0.15	0	0	0	0	0	0	0	0
1/7/2025 13:16	11301	EMMA_T1	0	1	1	0	0	0	-0.64	-0.63	0	0	0	0	0	0
1/7/2025 13:19	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/7/2025 13:19	43304	WATS_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
1/7/2025 13:20	13701	SCHN_T2	0	1	1	0	0.1	0.1	0.03	0.03	1	1	0	600	600	0
1/7/2025 13:22	64101	REFR_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
1/7/2025 13:22	43304	WATS_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
1/7/2025 13:22	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/7/2025 13:24	57201	ROSS_T1	0	1	1	0	0.1	0.1	-0.43	-0.38	0	0	0	0	0	0
1/7/2025 13:26	13701	SCHN_T2	0	1	1	0	0.1	0.1	0.03	0.01	1	1	0	600	600	0
1/7/2025 13:55	42701	AUGU_T1	1	0	-1	0.7	0	-0.7	0	0	2	2	0	1800	1800	0
1/7/2025 13:57	20601	GRWO_T2	1	1	0	4	3.1	-0.9	0.87	0.87	0	0	0	0	0	0
1/7/2025 13:57	20603	GRWO_T2	45	46	1	0.37	0.26	-0.11	0	0	0	0	0	0	0	0
1/7/2025 13:58	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/7/2025 13:58	40802	EXCH_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
1/7/2025 13:59	20601	GRWO_T2	1	1	0	4	3.1	-0.9	0	0	0	0	0	0	0	0
1/7/2025 13:59	20603	GRWO_T2	45	46	1	0.37	0.26	-0.11	-0.51	-0.57	1	1	0	900	900	0
1/7/2025 14:00	52101	MEIS_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/7/2025 14:00	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
1/7/2025 15:31	54502	ENOL_T2	0	0	0	0	0	0	-1.96	-1.99	1	1	0	600	600	0
1/7/2025 15:31	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/7/2025 18:42	26701	HEML_T1	16	17	1	0.74	0.81	0.07	0	0	0	0	0	0	0	0
1/7/2025 18:42	26703	HEML_T1	17	8	-9	0.65	0.57	-0.08	-0.54	-0.55	1	1	0	600	600	0
1/7/2025 18:47	16902	MECK_T1	62	75	13	0.74	0.72	-0.02	-2.03	-2	0	0	0	0	0	0
1/7/2025 18:47	26704	HEML_T2	0	0	0	0	0	0	-0.76	-0.79	1	1	0	1200	1200	0
1/7/2025 18:52	29401	BELT_T1	11	6	-5	0.17	0.12	-0.05	0	0	1	1	0	900	900	0
1/7/2025 18:52	29402	BELT_T1	36	20	-16	0.51	0.53	0.02	0	0	0	0	0	0	0	0
1/7/2025 18:53	46206	DANV_T2	1	6	5	0.2	0.2	0	0	0	0	0	0	0	0	0
1/7/2025 18:53	23402	HONE_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 18:53	23401	HONE_T2	45	103	58	0.59	0.48	-0.11	0.22	0.2	0	0	0	0	0	0
1/7/2025 18:53	46204	DANV_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
1/7/2025 18:53	46203	DANV_T2	15	14	-1	0.87	0.82	-0.05	-1.19	-1.18	0	0	0	0	0	0
1/7/2025 18:54	20601	GRWO_T2	5	7	2	1.44	1.7	0.26	0	0	0	0	0	0	0	0
1/7/2025 18:54	22602	KIMB_T1	0	0	0	0	0	0	0.28	0.24	0	0	0	0	0	0
1/7/2025 18:54	15601	NSTR_T2	33	89	56	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
1/7/2025 18:54	20603	GRWO_T2	43	43	0	0.46	0.42	-0.04	0.62	0.6	0	0	0	0	0	0
1/7/2025 18:54	20801	LOPO_T1	223	287	64	0.72	0.71	-0.01	0	0	0	0	0	0	0	0
1/7/2025 18:54	20802	LOPO_T1	69	116	47	0.71	0.64	-0.07	-0.81	-0.82	1	1	0	600	600	0
1/7/2025 18:54	22601	KIMB_T1	3	2	-1	0.23	0.4	0.17	0	0	0	0	0	0	0	0
1/7/2025 18:55	29402	BELT_T1	36	20	-16	0.51	0.53	0.02	0	0	0	0	0	0	0	0
1/7/2025 18:55	29401	BELT_T1	11	6	-5	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
1/7/2025 18:55	44801	EDAN_T2	1	3	2	0.3	0.6	0.3	-0.32	-0.32	0	0	0	0	0	0
1/7/2025 18:55	40802	EXCH_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
1/7/2025 18:56	10805	CHHI_T2	7	1	-6	1.61	7.5	5.89	-0.81	-1.09	1	1	0	600	600	0
1/7/2025 18:56	61303	EARL_T1	0	0	0	0	0	0	0.42	0.3	0	0	0	0	0	0
1/7/2025 18:56	11102	EGYP_T1	4	7	3	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/7/2025 18:56	11104	EGYP_T1	2	3	1	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
1/7/2025 18:56	11101	EGYP_T1	0	0	0	0	0	0	-0.61	-0.61	1	1	0	1200	1200	0
1/7/2025 18:56	61701	ELIZ_T1	1	2	1	4.5	4.3	-0.2	0.29	0.36	0	0	0	0	0	0
1/7/2025 18:56	45502	DERR_T2	3	4	1	0.93	1.1	0.17	0	0	0	0	0	0	0	0
1/7/2025 18:56	45501	DERR_T2	2	10	8	0.1	0.78	0.68	0.33	0.2	2	2	0	1800	1800	0
1/7/2025 18:56	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 18:56	11301	EMMA_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
1/7/2025 18:56	66902	SHIL_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
1/7/2025 18:56	21901	HUMB_T1	320	321	1	2.43	2.4	-0.03	-1.42	-1.41	0	0	0	0	0	0
1/7/2025 18:56	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 18:57	44901	SCOT_T2	0	0	0	0	0	0	0.07	-0.25	0	0	0	0	0	0
1/7/2025 18:57	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 18:57	46402	FLEM_T2	4	4	0	1.3	0.33	-0.97	0	0	2	2	0	1800	1800	0
1/7/2025 18:57	13503	MCMI_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
1/7/2025 18:57	44502	HAMI_T2	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
1/7/2025 18:58	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 18:58	48301	ORWI_T1	2	2	0	3.95	4.2	0.25	0.46	0.45	0	0	0	0	0	0
1/7/2025 18:58	64301	LINC_T1	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
1/7/2025 18:58	15601	NSTR_T2	33	89	56	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
1/7/2025 18:58	46803	HEPB_T2	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
1/7/2025 18:58	15103	UPHA_T2	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
1/7/2025 18:58	10206	ALLE_T2	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
1/7/2025 18:58	10102	ALLE_T2	34	33	-1	3.47	4.14	0.67	0	0	0	0	0	0	0	0
1/7/2025 18:59	46004	BERW_T2	21	31	10	0.67	0.79	0.12	0	0	0	0	0	0	0	0
1/7/2025 18:59	15601	NSTR_T2	33	89	56	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
1/7/2025 18:59	64101	REFR_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
1/7/2025 18:59	46802	HEPB_T1	1	1	0	1.1	1.1	0	-1.04	-0.98	0	0	0	0	0	0
1/7/2025 18:59	46002	BERW_T2	0	0	0	0	0	0	-0.98	-1.01	1	1	0	900	900	0
1/7/2025 18:59	44902	SCOT_T2	0	0	0	0	0	0	-0.86	-0.89	0	0	0	0	0	0
1/7/2025 18:59	47802	MOCA_T2	0	0	0	0	0	0	-0.77	-0.84	0	0	0	0	0	0
1/7/2025 18:59	46602	LACR_T1	0	0	0	0	0	0	-0.73	-0.78	0	0	0	0	0	0
1/7/2025 19:00	45501	DERR_T2	10	5	-5	0.53	1.05	0.52	0.33	0.2	2	2	0	1800	1800	0
1/7/2025 19:00	45502	DERR_T2	4	1	-3	0.38	1	0.62	0	0	0	0	0	0	0	0
1/7/2025 19:00	24105	EHAZ_T1	4	11	7	5.83	5.78	-0.05	0	0	0	0	0	0	0	0
1/7/2025 19:00	24103	EHAZ_T1	13	20	7	1.22	0.69	-0.53	0	0	0	0	0	0	0	0
1/7/2025 19:00	44201	POIN_T1	102	120	18	0.39	0.36	-0.03	-2.28	-2.31	2	2	0	2100	2100	0
1/7/2025 19:00	10102	ALLE_T2	28	34	6	4.15	4.31	0.16	0	0	0	0	0	0	0	0
1/7/2025 19:00	24101	EHAZ_T1	42	45	3	2.2	1.69	-0.51	0	0	0	0	0	0	0	0
1/7/2025 19:00	10801	CHHI_T1	5	6	1	0.44	0.25	-0.19	-1.87	-1.88	3	3	0	2100	2100	0
1/7/2025 19:00	13503	MCMI_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
1/7/2025 19:00	24102	EHAZ_T1	35	39	4	0.87	1.04	0.17	-0.23	-0.14	0	0	0	0	0	0
1/7/2025 19:00	10204	ALLE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 19:00	10206	ALLE_T2	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
1/7/2025 19:00	13202	PALM_T2	0	0	0	0	0	0	-1.91	-1.91	4	4	0	3600	3600	0
1/7/2025 19:00	44301	BEAV_T2	3	9	6	3.2	2.85	-0.35	0	0	0	0	0	0	0	0
1/7/2025 19:00	44302	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 19:00	44905	SCOT_T1	16	46	30	0.46	0.58	0.12	0	0	0	0	0	0	0	0
1/7/2025 19:01	20603	GRWO_T2	39	41	2	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
1/7/2025 19:01	24105	EHAZ_T1	4	11	7	5.83	5.78	-0.05	0	0	0	0	0	0	0	0
1/7/2025 19:01	40701	FFLD_T1	16	15	-1	0.23	0.31	0.08	0	0	0	0	0	0	0	0
1/7/2025 19:01	44502	HAMI_T2	1	2	1	2.3	2.3	0	0	0	0	0	0	0	0	0
1/7/2025 19:01	24101	EHAZ_T1	42	45	3	2.2	1.69	-0.51	0	0	0	0	0	0	0	0
1/7/2025 19:01	24104	EHAZ_T1	0	0	0	0	0	0	-0.8	-0.81	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/7/2025 19:01	40702	FFLD_T1	2	4	2	0.2	0.25	0.05	0	0	0	0	0	0	0	0
1/7/2025 19:01	24103	EHAZ_T1	13	20	7	1.22	0.69	-0.53	0	0	0	0	0	0	0	0
1/7/2025 19:01	20601	GRWO_T2	7	3	-4	1.34	3.2	1.86	0.1	0.1	0	0	0	0	0	0
1/7/2025 19:01	40703	FFLD_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/7/2025 19:01	43304	WATS_T2	29	26	-3	0.73	0.46	-0.27	0.23	0.23	1	1	0	600	600	0
1/7/2025 19:01	24102	EHAZ_T1	35	39	4	0.87	1.04	0.17	0	0	0	0	0	0	0	0
1/7/2025 19:01	44505	HAMI_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
1/7/2025 19:02	67401	WAKE_T2	287	325	38	0.64	0.71	0.07	0	0	0	0	0	0	0	0
1/7/2025 19:02	46206	DANV_T2	6	1	-5	0.2	0	-0.2	4.04	3.96	4	4	0	4200	4200	0
1/7/2025 19:02	45502	DERR_T2	4	1	-3	0.38	1	0.62	0	0	0	0	0	0	0	0
1/7/2025 19:02	67402	WAKE_T2	57	84	27	0.29	0.31	0.02	0.36	0.36	0	0	0	0	0	0
1/7/2025 19:02	45501	DERR_T2	10	5	-5	0.53	1.05	0.52	0.33	0.2	2	2	0	1800	1800	0
1/7/2025 19:02	62606	ENGL_T1	3	0	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
1/7/2025 19:02	10801	CHHI_T1	5	6	1	0.44	0.25	-0.19	-1.87	-1.88	3	3	0	2100	2100	0
1/7/2025 19:02	17401	FOHI_T1	1	0	-1	0.4	0	-0.4	-0.96	-0.96	0	0	0	0	0	0
1/7/2025 19:02	46203	DANV_T2	12	14	2	0.88	0.87	-0.01	0	0	0	0	0	0	0	0
1/7/2025 19:02	44301	BEAV_T2	3	9	6	3.2	2.85	-0.35	0	0	0	0	0	0	0	0
1/7/2025 19:02	15001	BLMO_T1	2	5	3	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/7/2025 19:02	62607	ENGL_T1	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
1/7/2025 19:02	44902	SCOT_T2	0	0	0	0	0	0	-0.86	-0.89	0	0	0	0	0	0
1/7/2025 19:02	44302	BEAV_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
1/7/2025 19:02	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 19:03	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 19:03	67001	STHI_T2	1	2	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
1/7/2025 19:03	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 19:03	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 19:04	14802	TREI_T2	2	8	6	0.45	0.5	0.05	0.74	0.74	0	0	0	0	0	0
1/7/2025 19:04	64502	LAVI_T1	280	303	23	0.54	0.65	0.11	0	0	0	0	0	0	0	0
1/7/2025 19:04	14801	TREI_T2	2	3	1	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
1/7/2025 19:04	41602	CLEV_T1	7	60	53	0.26	0.32	0.06	0	0	1	1	0	600	600	0
1/7/2025 19:04	64501	LAVI_T1	106	122	16	0.34	0.49	0.15	0	0	0	0	0	0	0	0
1/7/2025 19:04	60201	ATGL_T2	7	8	1	0.34	0.23	-0.11	0.01	0.14	0	0	0	0	0	0
1/7/2025 19:04	54601	SUMM_T2	0	0	0	0	0	0	-3.36	-3.23	4	4	0	4200	4200	0
1/7/2025 19:04	64503	LAVI_T1	65	67	2	0.59	0.7	0.11	-4.54	-4.5	2	2	0	2400	2400	0
1/7/2025 19:05	58402	MORO_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/7/2025 19:05	61703	ELIZ_T1	0	0	0	0	0	0	-2.61	-2.63	2	2	0	2100	2100	0
1/7/2025 19:05	42701	AUGU_T1	6	4	-2	0.23	0.93	0.7	0	0	2	2	0	1800	1800	0
1/7/2025 19:05	41902	REED_T1	63	60	-3	0.59	0.47	-0.12	0.47	0.35	1	1	0	900	900	0
1/7/2025 19:05	40701	FFLD_T1	16	15	-1	0.23	0.31	0.08	0	0	0	0	0	0	0	0
1/7/2025 19:05	42902	MIDD_T2	4	17	13	0.53	0.19	-0.34	-0.47	-0.47	0	0	0	0	0	0
1/7/2025 19:05	60502	NMAN_T2	0	0	0	0	0	0	-0.1	-0.15	0	0	0	0	0	0
1/7/2025 19:05	42903	MIDD_T2	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
1/7/2025 19:05	58401	MORO_T1	0	0	0	0	0	0	-0.78	-0.88	1	1	0	600	600	0
1/7/2025 19:05	40702	FFLD_T1	2	4	2	0.2	0.25	0.05	-0.73	-0.72	0	0	0	0	0	0
1/7/2025 19:05	40703	FFLD_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/7/2025 19:05	61701	ELIZ_T1	2	1	-1	2.25	4.5	2.25	0	0	0	0	0	0	0	0
1/7/2025 19:05	60501	NMAN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/7/2025 19:05	41901	REED_T1	8	10	2	0.55	0.68	0.13	0	0	0	0	0	0	0	0
1/7/2025 19:06	45802	HEGI_T2	42	48	6	0.88	1.76	0.88	0	0	0	0	0	0	0	0
1/7/2025 19:06	46203	DANV_T2	12	14	2	0.88	0.87	-0.01	-2.39	-2.35	0	0	0	0	0	0
1/7/2025 19:06	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 19:06	66505	SMAN_T2	0	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0
1/7/2025 19:06	14403	SSLA_T1	7	10	3	0.84	0.85	0.01	0	0	0	0	0	0	0	0
1/7/2025 19:06	14401	SSLA_T1	0	3	3	0	0.17	0.17	-1.48	-1.47	2	2	0	1800	1800	0
1/7/2025 19:06	66502	SMAN_T2	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
1/7/2025 19:06	55101	WERT_T1	0	0	0	0	0	0	-1.59	-1.72	2	2	0	1500	1500	0
1/7/2025 19:06	57201	ROSS_T1	0	0	0	0	0	0	-0.48	-0.6	0	0	0	0	0	0
1/7/2025 19:06	44201	POIN_T1	102	120	18	0.39	0.36	-0.03	-2.28	-2.31	2	2	0	2100	2100	0
1/7/2025 19:06	16102	BING_T2	1	1	0	3.9	3.6	-0.3	0	0	0	0	0	0	0	0
1/7/2025 19:06	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 19:06	14204	EALL_T2	1	6	5	3.1	0.45	-2.65	0.35	0.3	0	0	0	0	0	0
1/7/2025 19:06	10805	CHHI_T2	1	7	6	7.7	7.5	-0.2	-1.09	-1.05	1	1	0	600	600	0
1/7/2025 19:06	46206	DANV_T2	6	1	-5	0.2	0	-0.2	2.02	1.98	2	2	0	2100	2100	0
1/7/2025 19:06	43304	WATS_T2	29	26	-3	0.73	0.46	-0.27	0.23	0.23	1	1	0	600	600	0
1/7/2025 19:06	14402	SSLA_T1	5	12	7	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
1/7/2025 19:07	64404	LAND_T2	47	67	20	0.12	0.17	0.05	0	0	0	0	0	0	0	0
1/7/2025 19:07	45501	DERR_T2	10	5	-5	0.53	1.05	0.52	0.2	-0.28	2	2	0	1800	1800	0
1/7/2025 19:07	40603	PIGR_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
1/7/2025 19:07	64402	LAND_T2	0	0	0	0	0	0	-0.41	-0.43	1	1	0	600	600	0
1/7/2025 19:07	61303	EARL_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
1/7/2025 19:07	40602	PIGR_T1	0	0	0	0	0	0	-1.48	-1.47	1	1	0	600	600	0
1/7/2025 19:07	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 19:07	45502	DERR_T2	4	1	-3	0.38	1	0.62	0	0	0	0	0	0	0	0
1/7/2025 19:07	63501	HEID_TBK1-2	9	75	66	0.21	0.34	0.13	-0.36	-0.36	1	1	0	900	900	0
1/7/2025 19:08	20603	GRWO_T2	39	41	2	0.45	0.33	-0.12	0.6	0.59	0	0	0	0	0	0
1/7/2025 19:08	10801	CHHI_T1	5	6	1	0.44	0.25	-0.19	-1.88	-1.88	3	3	0	2100	2100	0
1/7/2025 19:08	64503	LAVI_T1	65	67	2	0.59	0.7	0.11	-2.25	-2.08	1	1	0	1200	1200	0
1/7/2025 19:08	44502	HAMI_T2	1	2	1	2.3	2.3	0	0	0	0	0	0	0	0	0
1/7/2025 19:08	43304	WATS_T2	29	26	-3	0.73	0.46	-0.27	0.23	0.23	1	1	0	600	600	0
1/7/2025 19:08	11103	EGYP_T1	0	1	1	0	0	0	0.54	0.56	0	0	0	0	0	0
1/7/2025 19:08	64501	LAVI_T1	106	122	16	0.34	0.49	0.15	-0.38	-0.37	0	0	0	0	0	0
1/7/2025 19:08	13104	NHAM_T1	9	10	1	0.97	1.01	0.04	0	0	0	0	0	0	0	0
1/7/2025 19:08	13101	NHAM_T1	13	12	-1	0.84	4.2	3.36	0	0	0	0	0	0	0	0
1/7/2025 19:08	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 19:08	11102	EGYP_T1	0	7	7	0	0.4	0.4	0	0	0	0	0	0	0	0
1/7/2025 19:08	20601	GRWO_T2	7	3	-4	1.34	3.2	1.86	0	0	0	0	0	0	0	0
1/7/2025 19:08	64502	LAVI_T1	280	303	23	0.54	0.65	0.11	0	0	0	0	0	0	0	0
1/7/2025 19:08	11104	EGYP_T1	3	3	0	0.73	1.8	1.07	0	0	0	0	0	0	0	0
1/7/2025 19:08	14802	TREI_T2	2	8	6	0.45	0.5	0.05	0.74	0.76	0	0	0	0	0	0
1/7/2025 19:08	52502	PROG_T2	0	0	0	0	0	0	0.7	0.72	0	0	0	0	0	0
1/7/2025 19:08	14801	TREI_T2	2	3	1	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
1/7/2025 19:09	13501	MCMI_T1	2	1	-1	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
1/7/2025 19:09	60501	NMAN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/7/2025 19:09	43304	WATS_T2	29	26	-3	0.73	0.46	-0.27	0	0	0	0	0	0	0	0
1/7/2025 19:09	42902	MIDD_T2	4	17	13	0.53	0.19	-0.34	0	0	0	0	0	0	0	0
1/7/2025 19:09	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 19:09	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 19:09	42903	MIDD_T2	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
1/7/2025 19:10	54504	ENOL_T2	0	0	0	0	0	0	-0.94	-0.91	1	1	0	600	600	0
1/7/2025 19:10	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
1/7/2025 19:10	13702	SCHN_T1	0	0	0	0	0	0	1.66	1.58	0	0	0	0	0	0
1/7/2025 19:10	45802	HEGI_T2	42	48	6	0.88	1.76	0.88	-0.32	-0.34	1	1	0	900	900	0
1/7/2025 19:10	52101	MEIS_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
1/7/2025 19:10	40901	JESH_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/7/2025 19:10	61001	DONV_T1	0	0	0	0	0	0	-0.23	-0.18	0	0	0	0	0	0
1/7/2025 19:10	51201	MTON_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 19:10	40902	JESH_T1	0	1	1	0	0	0	-1.04	-1.11	1	1	0	600	600	0
1/7/2025 19:10	54505	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/7/2025 19:11	55101	WERT_T1	0	0	0	0	0	0	-1.59	-1.72	2	2	0	1500	1500	0
1/7/2025 19:11	43304	WATS_T2	29	26	-3	0.73	0.46	-0.27	0.23	0.23	1	1	0	600	600	0
1/7/2025 19:12	46203	DANV_T2	12	14	2	0.88	0.87	-0.01	-1.18	-1.11	0	0	0	0	0	0
1/7/2025 19:12	49803	UNIV_T1	1	1	0	6.6	6.1	-0.5	0	0	0	0	0	0	0	0
1/7/2025 19:12	20603	GRWO_T2	39	41	2	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
1/7/2025 19:12	43304	WATS_T2	29	26	-3	0.73	0.46	-0.27	0	0	0	0	0	0	0	0
1/7/2025 19:12	64301	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 19:12	49804	UNIV_T1	3	2	-1	0.57	0.2	-0.37	0.7	0.68	0	0	0	0	0	0
1/7/2025 19:12	63501	HEID_TBK1-2	9	75	66	0.21	0.34	0.13	-0.36	-0.36	1	1	0	900	900	0
1/7/2025 19:12	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 19:12	20601	GRWO_T2	7	3	-4	1.34	3.2	1.86	0.1	0.09	0	0	0	0	0	0
1/7/2025 19:12	46206	DANV_T2	6	1	-5	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/7/2025 19:12	45802	HEGI_T2	42	48	6	0.88	1.76	0.88	-0.32	-0.34	1	1	0	900	900	0
1/7/2025 19:13	53501	EVIL_T2	0	0	0	0	0	0	-1.37	-1.43	2	2	0	1200	1200	0
1/7/2025 19:13	61701	ELIZ_T1	2	1	-1	2.25	4.5	2.25	0	0	0	0	0	0	0	0
1/7/2025 19:13	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 19:13	66203	SISP_T2	1	1	0	3.2	0	-3.2	0	0	0	0	0	0	0	0
1/7/2025 19:13	56501	ROCK_T2	2	8	6	1.85	0.33	-1.52	-1.39	-1.38	0	0	0	0	0	0
1/7/2025 19:13	52502	PROG_T2	0	0	0	0	0	0	1.4	1.44	0	0	0	0	0	0
1/7/2025 19:13	61703	ELIZ_T1	0	0	0	0	0	0	-2.63	-2.63	2	2	0	2100	2100	0
1/7/2025 19:14	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 19:14	41903	REED_T1	0	0	0	0	0	0	0.12	0.16	1	1	0	1200	1200	0
1/7/2025 19:14	41901	REED_T1	8	10	2	0.55	0.68	0.13	0	0	0	0	0	0	0	0
1/7/2025 19:14	52502	PROG_T2	0	0	0	0	0	0	0.7	0.72	0	0	0	0	0	0
1/7/2025 19:14	41902	REED_T1	63	60	-3	0.59	0.47	-0.12	0	0	0	0	0	0	0	0
1/7/2025 19:14	64101	REFR_T1	0	0	0	0	0	0	0.15	0.1	0	0	0	0	0	0
1/7/2025 19:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 19:14	43304	WATS_T2	29	26	-3	0.73	0.46	-0.27	0.23	0.23	1	1	0	600	600	0
1/7/2025 19:14	54601	SUMM_T2	0	0	0	0	0	0	-1.62	-1.68	2	2	0	2100	2100	0
1/7/2025 19:15	64101	REFR_T1	0	0	0	0	0	0	0.15	0.1	0	0	0	0	0	0
1/7/2025 19:15	63501	HEID_TBK1-2	26	74	48	0.25	0.34	0.09	-0.36	-0.36	1	1	0	900	900	0
1/7/2025 19:16	64101	REFR_T1	0	0	0	0	0	0	0.15	0.1	0	0	0	0	0	0
1/7/2025 19:16	44301	BEAV_T2	6	7	1	2.07	2.56	0.49	0	0	0	0	0	0	0	0
1/7/2025 19:16	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2025 19:16	54504	ENOL_T2	0	0	0	0	0	0	-0.94	-0.91	1	1	0	600	600	0
1/7/2025 19:16	54505	ENOL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/7/2025 19:16	60501	NMAN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/7/2025 19:18	64904	MILL_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
1/7/2025 19:28	11104	EGYP_T1	3	2	-1	1.03	0	-1.03	-0.56	-0.52	2	2	0	1800	1800	0
1/7/2025 19:28	11103	EGYP_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/7/2025 19:28	11102	EGYP_T1	7	6	-1	0.41	0	-0.41	0	0	0	0	0	0	0	0
1/7/2025 19:34	13503	MCMI_T2	0	0	0	0	0	0	-0.3	-0.33	0	0	0	0	0	0
1/7/2025 19:39	42401	GIMA_T1	25	22	-3	0.31	0.35	0.04	0	0	0	0	0	0	0	0
1/7/2025 19:52	16101	BING_T2	0	0	0	0	0	0	0.68	0.7	0	0	0	0	0	0
1/7/2025 19:52	16102	BING_T2	1	1	0	4.5	4.9	0.4	0	0	0	0	0	0	0	0
1/7/2025 19:53	65702	RVIL_T2	0	0	0	0	0	0	-1.44	-1.47	1	1	0	600	600	0
1/7/2025 23:22	13701	SCHN_T2	0	0	0	0	0	0	-0.01	0.01	1	1	0	600	600	0
1/8/2025 8:10	16101	BING_T2	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
1/8/2025 8:10	16102	BING_T2	1	1	0	1.7	5.5	3.8	0	0	0	0	0	0	0	0
1/8/2025 8:26	16102	BING_T2	1	1	0	5.5	4.8	-0.7	0	0	0	0	0	0	0	0
1/8/2025 8:26	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 8:28	20603	GRWO_T2	4	4	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
1/8/2025 8:28	45501	DERR_T2	4	2	-2	0.35	0	-0.35	0.35	0.34	2	2	0	1800	1800	0
1/8/2025 8:28	45502	DERR_T2	2	4	2	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
1/8/2025 8:28	20601	GRWO_T2	108	101	-7	0.8	0.64	-0.16	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/8/2025 8:48	20801	LOPO_T1	113	101	-12	0.53	0.55	0.02	0	0	0	0	0	0	0	0
1/8/2025 8:48	20802	LOPO_T1	24	21	-3	0.91	0.62	-0.29	-0.86	-0.86	1	1	0	600	600	0
1/8/2025 8:49	13503	MCMI_T2	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
1/8/2025 8:53	67002	STHI_T2	25	52	27	0.15	0.16	0.01	0.72	0.68	0	0	0	0	0	0
1/8/2025 8:53	67001	STHI_T2	83	186	103	0.12	0.13	0.01	0	0	0	0	0	0	0	0
1/8/2025 8:53	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 8:53	40302	TAMA_T3	4	4	0	0.28	0.48	0.2	0	0	0	0	0	0	0	0
1/8/2025 8:55	67001	STHI_T2	83	186	103	0.12	0.13	0.01	0	0	0	0	0	0	0	0
1/8/2025 8:55	67002	STHI_T2	25	52	27	0.15	0.16	0.01	1.44	1.36	0	0	0	0	0	0
1/8/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
1/8/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
1/8/2025 9:00	26704	HEMI_T2	0	0	0	0	0	0	-0.76	-0.75	1	1	0	1200	1200	0
1/8/2025 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
1/8/2025 9:09	66901	SHIL_T2	2	6	4	0.1	0.1	0	0	0	0	0	0	0	0	0
1/8/2025 9:09	66902	SHIL_T2	0	0	0	0	0	0	-0.89	-0.91	0	0	0	0	0	0
1/8/2025 9:10	43304	WATS_T2	4	4	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
1/8/2025 9:12	24101	EHAZ_T1	58	69	11	1.24	1.17	-0.07	0	0	0	0	0	0	0	0
1/8/2025 9:12	24105	EHAZ_T1	4	4	0	5.55	6	0.45	0	0	0	0	0	0	0	0
1/8/2025 9:12	24102	EHAZ_T1	4	12	8	0.35	0.6	0.25	0	0	0	0	0	0	0	0
1/8/2025 9:12	24104	EHAZ_T1	9	0	-9	0.13	0	-0.13	-2.13	-2.14	1	1	0	1200	1200	0
1/8/2025 9:13	61103	BERK_T5	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
1/8/2025 9:13	53502	EVIL_T2	13	1	-12	1.17	2.9	1.73	0	0	0	0	0	0	0	0
1/8/2025 9:13	53501	EVIL_T2	2	14	12	0.8	0.85	0.05	0	0	0	0	0	0	0	0
1/8/2025 9:14	16102	BING_T2	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
1/8/2025 9:14	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 9:14	60201	ATGL_T2	5	5	0	0.22	0.42	0.2	0.27	0.29	0	0	0	0	0	0
1/8/2025 9:18	13503	MCMI_T2	0	1	1	0	0.1	0.1	-0.49	-0.51	0	0	0	0	0	0
1/8/2025 9:22	13702	SCHN_T1	0	1	1	0	0.2	0.2	-0.46	-0.42	0	0	0	0	0	0
1/8/2025 9:23	44901	SCOT_T2	10	1	-9	0.2	0.1	-0.1	0.18	0.03	0	0	0	0	0	0
1/8/2025 9:23	44902	SCOT_T2	479	283	-196	0.36	0.22	-0.14	0	0	0	0	0	0	0	0
1/8/2025 9:24	44902	SCOT_T2	479	283	-196	0.36	0.22	-0.14	0	0	0	0	0	0	0	0
1/8/2025 9:24	44901	SCOT_T2	10	1	-9	0.2	0.1	-0.1	0.18	0.03	0	0	0	0	0	0
1/8/2025 9:24	13702	SCHN_T1	0	1	1	0	0.2	0.2	-0.46	-0.42	0	0	0	0	0	0
1/8/2025 9:25	44901	SCOT_T2	10	1	-9	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/8/2025 9:25	44902	SCOT_T2	479	283	-196	0.36	0.22	-0.14	-0.84	-0.82	0	0	0	0	0	0
1/8/2025 9:25	29402	BELT_T1	8	32	24	0.88	0.44	-0.44	0	0	0	0	0	0	0	0
1/8/2025 9:25	42701	AUGU_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
1/8/2025 9:26	45502	DERR_T2	1	18	17	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 9:26	45501	DERR_T2	2	1	-1	0.35	0	-0.35	0.38	0.35	2	2	0	1800	1800	0
1/8/2025 9:27	29402	BELT_T1	8	32	24	0.88	0.44	-0.44	0	0	0	0	0	0	0	0
1/8/2025 9:28	16102	BING_T2	1	1	0	4.2	5.5	1.3	0.19	0.07	0	0	0	0	0	0
1/8/2025 9:29	26402	INOR_T1	37	3	-34	0.4	0.4	0	-2.25	-2.24	2	2	0	1200	1200	0
1/8/2025 9:29	26401	INOR_T1	202	152	-50	2.53	2.33	-0.2	0	0	0	0	0	0	0	0
1/8/2025 9:30	63501	HEID_TBK1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 9:30	64503	LAVI_T1	0	0	0	0	0	0	-3.46	-2.57	2	2	0	2400	2400	0
1/8/2025 9:31	20603	GRWO_T2	3	4	1	0.33	0.15	-0.18	-0.52	-0.51	1	1	0	900	900	0
1/8/2025 9:31	20601	GRWO_T2	29	33	4	0.67	0.54	-0.13	0	0	0	0	0	0	0	0
1/8/2025 9:33	64503	LAVI_T1	0	0	0	0	0	0	-1.73	-1.29	1	1	0	1200	1200	0
1/8/2025 9:34	64501	LAVI_T1	0	0	0	0	0	0	-0.09	-0.13	0	0	0	0	0	0
1/8/2025 9:35	41902	REED_T1	3	1	-2	0.33	0	-0.33	0	0	0	0	0	0	0	0
1/8/2025 9:35	64503	LAVI_T1	0	0	0	0	0	0	-1.73	-1.29	1	1	0	1200	1200	0
1/8/2025 9:35	41901	REED_T1	5	6	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
1/8/2025 9:35	41903	REED_T1	0	0	0	0	0	0	0.25	0.25	1	1	0	1200	1200	0
1/8/2025 9:44	20601	GRWO_T2	29	33	4	0.67	0.54	-0.13	0.95	1.07	0	0	0	0	0	0
1/8/2025 9:44	29402	BELT_T1	4	32	28	1.6	0.44	-1.16	0	0	0	0	0	0	0	0
1/8/2025 9:44	45501	DERR_T2	1	1	0	0.1	0	-0.1	0.35	0.33	2	2	0	1800	1800	0
1/8/2025 9:44	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/8/2025 9:44	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/8/2025 9:44	20603	GRWO_T2	3	4	1	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
1/8/2025 9:49	20601	GRWO_T2	30	32	2	0.53	0.55	0.02	0.95	1.07	0	0	0	0	0	0
1/8/2025 9:49	20603	GRWO_T2	4	16	12	0.15	0.15	0	0	0	0	0	0	0	0	0
1/8/2025 9:50	64101	REFR_T1	0	0	0	0	0	0	0.33	0.15	0	0	0	0	0	0
1/8/2025 9:51	64101	REFR_T1	0	0	0	0	0	0	0.22	0.1	0	0	0	0	0	0
1/8/2025 9:52	64101	REFR_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
1/8/2025 9:53	56603	HAMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 9:53	43304	WATS_T2	2	0	-2	0.15	0	-0.15	0.46	0.46	2	2	0	1200	1200	0
1/8/2025 9:53	64101	REFR_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
1/8/2025 9:53	55101	WERT_T1	0	0	0	0	0	0	-1.27	-1.25	2	2	0	1500	1500	0
1/8/2025 9:54	55101	WERT_T1	0	0	0	0	0	0	-2.54	-2.5	4	4	0	3000	3000	0
1/8/2025 9:55	44901	SCOT_T2	1	172	171	0.1	0.27	0.17	0	0	0	0	0	0	0	0
1/8/2025 9:55	44902	SCOT_T2	280	625	345	0.22	0.58	0.36	-0.86	-0.83	0	0	0	0	0	0
1/8/2025 9:56	55101	WERT_T1	0	0	0	0	0	0	-1.27	-1.25	2	2	0	1500	1500	0
1/8/2025 9:57	43304	WATS_T2	2	0	-2	0.15	0	-0.15	0.23	0.23	1	1	0	600	600	0
1/8/2025 9:57	55101	WERT_T1	0	0	0	0	0	0	-1.27	-1.25	2	2	0	1500	1500	0
1/8/2025 9:58	62606	ENGL_T1	116	96	-20	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
1/8/2025 9:58	62604	ENGL_T1	20	3	-17	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
1/8/2025 9:58	62605	ENGL_T1	13	1	-12	0.14	0.2	0.06	-1.14	-1.16	0	0	0	0	0	0
1/8/2025 9:58	11104	EGYP_T1	1	0	-1	0.3	0	-0.3	0.56	0.51	0	0	0	0	0	0
1/8/2025 9:59	46204	DANV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/8/2025 9:59	45502	DERR_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 9:59	46203	DANV_T2	7	9	2	0.56	0.86	0.3	-2.64	-0.83	0	0	0	0	0	0
1/8/2025 9:59	46206	DANV_T2	2	1	-1	0.4	0	-0.4	3.86	3.87	4	4	0	4200	4200	0
1/8/2025 9:59	45501	DERR_T2	0	1	1	0	0	0	0.33	0.24	2	2	0	1800	1800	0
1/8/2025 10:00	46203	DANV_T2	9	2	-7	0.86	0.1	-0.76	-1.32	-0.41	0	0	0	0	0	0
1/8/2025 10:00	11104	EGYP_T1	0	1	1	0	0	0	0.56	0.51	0	0	0	0	0	0
1/8/2025 10:00	46206	DANV_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/8/2025 10:01	22803	HAUT_T2	13	12	-1	1.15	3.2	2.05	0	0	0	0	0	0	0	0
1/8/2025 10:01	22805	HAUT_T2	37	36	-1	0.86	1	0.14	-1.28	-1.28	1	1	0	1200	1200	0
1/8/2025 10:01	26401	INOR_T1	159	153	-6	2.27	2.36	0.09	0	0	0	0	0	0	0	0
1/8/2025 10:01	26402	INOR_T1	2	8	6	0.45	0.5	0.05	-2.28	-2.33	2	2	0	1200	1200	0
1/8/2025 10:08	15103	UPHA_T2	0	0	0	0	0	0	-0.73	-0.76	0	0	0	0	0	0
1/8/2025 10:09	43304	WATS_T2	0	0	0	0	0	0	0.23	0.23	1	1	0	600	600	0
1/8/2025 10:12	43304	WATS_T2	0	0	0	0	0	0	0.46	0.46	2	2	0	1200	1200	0
1/8/2025 10:12	27901	BCRK_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
1/8/2025 10:13	61001	DONV_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
1/8/2025 10:14	11104	EGYP_T1	0	1	1	0	0	0	0.51	0.48	0	0	0	0	0	0
1/8/2025 10:14	11101	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 10:15	23401	HONE_T2	27	159	132	0.49	0.62	0.13	0.27	0.25	0	0	0	0	0	0
1/8/2025 10:16	14205	EALL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 10:16	11104	EGYP_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
1/8/2025 10:16	17401	FOHI_T1	0	0	0	0	0	0	-0.96	-0.96	0	0	0	0	0	0
1/8/2025 10:16	14204	EALL_T2	0	0	0	0	0	0	0.23	0.33	0	0	0	0	0	0
1/8/2025 10:16	11101	EGYP_T1	0	0	0	0	0	0	-0.61	-0.63	1	1	0	1200	1200	0
1/8/2025 10:23	44901	SCOT_T2	172	131	-41	0.27	0.31	0.04	0.29	0.24	0	0	0	0	0	0
1/8/2025 10:23	44902	SCOT_T2	624	531	-93	0.58	0.45	-0.13	0	0	0	0	0	0	0	0
1/8/2025 10:24	24206	PROV_T4	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
1/8/2025 10:24	24202	PROV_T4	0	0	0	0	0	0	-0.69	-0.72	1	1	0	1200	1200	0
1/8/2025 10:28	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 10:29	24102	EHAZ_T1	15	16	1	0.88	0.61	-0.27	0.14	0.23	0	0	0	0	0	0
1/8/2025 10:29	24105	EHAZ_T1	4	4	0	6.2	6.23	0.03	0	0	0	0	0	0	0	0
1/8/2025 10:29	24101	EHAZ_T1	53	65	12	1.18	1.34	0.16	0	0	0	0	0	0	0	0
1/8/2025 10:29	46206	DANV_T2	0	0	0	0	0	0	1.88	1.89	2	2	0	2100	2100	0
1/8/2025 10:29	24103	EHAZ_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
1/8/2025 10:29	46203	DANV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 10:29	24104	EHAZ_T1	1	70	69	0.1	0.26	0.16	0	0	0	0	0	0	0	0
1/8/2025 10:31	62607	ENGL_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/8/2025 10:31	62606	ENGL_T1	65	66	1	0.16	0.21	0.05	0	0	0	0	0	0	0	0
1/8/2025 10:31	62604	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 10:31	62605	ENGL_T1	1	1	0	0.2	0.1	-0.1	-1.17	-1.17	0	0	0	0	0	0
1/8/2025 10:33	64802	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/8/2025 10:33	20802	LOPO_T1	15	8	-7	0.58	0.45	-0.13	-0.88	-0.9	1	1	0	600	600	0
1/8/2025 10:33	20801	LOPO_T1	86	43	-43	0.61	0.44	-0.17	0	0	0	0	0	0	0	0
1/8/2025 10:34	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 10:34	20802	LOPO_T1	15	8	-7	0.58	0.45	-0.13	-0.88	-0.9	1	1	0	600	600	0
1/8/2025 10:34	13503	MCMI_T2	0	1	1	0	0.3	0.3	-0.53	-0.54	0	0	0	0	0	0
1/8/2025 10:34	13501	MCMI_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 10:34	20801	LOPO_T1	86	43	-43	0.61	0.44	-0.17	0	0	0	0	0	0	0	0
1/8/2025 10:36	43801	SWIL_T1	1	2	1	4.8	2.4	-2.4	0	0	0	0	0	0	0	0
1/8/2025 10:36	64802	MONE_T2	0	1	1	0	0.1	0.1	0.27	0.26	0	0	0	0	0	0
1/8/2025 10:36	43802	SWIL_T1	0	0	0	0	0	0	-0.11	-0.07	1	1	0	600	600	0
1/8/2025 10:38	13702	SCHN_T1	0	0	0	0	0	0	0.72	0.67	0	0	0	0	0	0
1/8/2025 10:40	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 10:40	13702	SCHN_T1	0	0	0	0	0	0	0.72	0.67	0	0	0	0	0	0
1/8/2025 10:41	60904	DONG_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/8/2025 10:41	60902	DONG_T2	0	0	0	0	0	0	0.7	0.81	0	0	0	0	0	0
1/8/2025 10:42	67402	WAKE_T2	0	0	0	0	0	0	0.6	0.61	1	1	0	600	600	0
1/8/2025 10:42	20403	ASHF_T2	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
1/8/2025 10:42	20401	ASHF_T2	4	4	0	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
1/8/2025 10:43	26703	HEMI_T1	5	8	3	0.52	0.43	-0.09	-0.57	-0.6	1	1	0	600	600	0
1/8/2025 10:43	26701	HEMI_T1	15	8	-7	0.55	0.44	-0.11	0	0	0	0	0	0	0	0
1/8/2025 10:44	16006	DORN_T2	0	0	0	0	0	0	0.89	0.91	0	0	0	0	0	0
1/8/2025 10:44	17802	GILB_T1	0	1	1	0	0.7	0.7	0.19	0.13	0	0	0	0	0	0
1/8/2025 10:49	39601	LNFD_T1	12	16	4	1.25	1.44	0.19	0	0	0	0	0	0	0	0
1/8/2025 10:49	40602	PIGR_T1	0	0	0	0	0	0	-1.36	-1.41	1	1	0	600	600	0
1/8/2025 10:49	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
1/8/2025 10:51	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 10:51	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 10:53	52502	PROG_T2	0	0	0	0	0	0	1.28	1.36	0	0	0	0	0	0
1/8/2025 10:53	40602	PIGR_T1	0	0	0	0	0	0	-1.41	-1.38	1	1	0	600	600	0
1/8/2025 10:54	13704	SCHN_T2	0	0	0	0	0	0	-0.69	-0.73	0	0	0	0	0	0
1/8/2025 10:54	13701	SCHN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 10:54	49803	UNIV_T1	1	1	0	6.2	6.3	0.1	-0.85	-0.89	0	0	0	0	0	0
1/8/2025 10:54	52502	PROG_T2	0	0	0	0	0	0	0.64	0.68	0	0	0	0	0	0
1/8/2025 10:57	49803	UNIV_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
1/8/2025 10:58	20401	ASHF_T2	3	7	4	0.23	0.38	0.15	-0.03	-0.05	0	0	0	0	0	0
1/8/2025 10:58	46002	BERW_T2	0	0	0	0	0	0	-0.39	-0.46	1	1	0	900	900	0
1/8/2025 10:58	28403	HART_T2	0	0	0	0	0	0	-0.67	-0.67	1	1	0	900	900	0
1/8/2025 10:58	46004	BERW_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 10:58	20403	ASHF_T2	2	2	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
1/8/2025 11:00	47203	FAXO_T2	1	1	0	0.4	0.4	0	-1.69	-1.69	1	1	0	1200	1200	0
1/8/2025 11:01	54505	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/8/2025 11:01	54501	ENOL_T2	0	0	0	0	0	0	-0.49	-0.45	1	1	0	600	600	0
1/8/2025 11:02	46402	FLEM_T2	2	2	0	0.4	0	-0.4	0	0	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/8/2025 11:02	10801	CHHI_T1	1	2	1	0.8	0.4	-0.4	-1.46	-1.25	2	2	0	1500	1500	0
1/8/2025 11:02	63501	HEID_TBK1-2	0	0	0	0	0	0	0.2	0.32	1	1	0	900	900	0
1/8/2025 11:02	45802	HEGI_T2	10	49	39	0.57	1.31	0.74	0	0	0	0	0	0	0	0
1/8/2025 11:04	10801	CHHI_T1	1	2	1	0.8	0.4	-0.4	-1.46	-1.25	2	2	0	1500	1500	0
1/8/2025 11:08	64305	LINC_T1	0	0	0	0	0	0	-0.14	-0.2	0	0	0	0	0	0
1/8/2025 11:08	13904	SEID_T1	1	9	8	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
1/8/2025 11:08	41902	REED_T1	0	1	1	0	0	0	0.42	0.4	1	1	0	900	900	0
1/8/2025 11:08	13902	SEID_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/8/2025 11:08	41901	REED_T1	2	3	1	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
1/8/2025 11:10	16102	BING_T2	1	1	0	4.7	5.1	0.4	0	0	0	0	0	0	0	0
1/8/2025 11:10	16103	BING_T2	0	0	0	0	0	0	-1.46	-1.55	1	1	0	900	900	0
1/8/2025 11:10	13904	SEID_T1	1	9	8	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
1/8/2025 11:10	13902	SEID_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/8/2025 11:12	44801	EDAN_T2	0	0	0	0	0	0	-0.29	-0.25	0	0	0	0	0	0
1/8/2025 11:13	46004	BERW_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 11:13	46002	BERW_T2	0	0	0	0	0	0	-0.46	-0.44	1	1	0	900	900	0
1/8/2025 11:15	24102	EHAZ_T1	9	32	23	0.52	0.52	0	0	0	0	0	0	0	0	0
1/8/2025 11:15	24105	EHAZ_T1	4	9	5	6.98	6.98	0	0	0	0	0	0	0	0	0
1/8/2025 11:15	24101	EHAZ_T1	65	112	47	1.48	1.56	0.08	0	0	0	0	0	0	0	0
1/8/2025 11:15	24103	EHAZ_T1	3	3	0	0.37	0	-0.37	-0.19	-0.09	0	0	0	0	0	0
1/8/2025 11:15	24104	EHAZ_T1	9	11	2	0.22	0.28	0.06	0	0	0	0	0	0	0	0
1/8/2025 11:17	20601	GRWO_T2	6	7	1	0.43	0.77	0.34	0.87	0.85	0	0	0	0	0	0
1/8/2025 11:17	20603	GRWO_T2	5	6	1	0.34	0.23	-0.11	0	0	0	0	0	0	0	0
1/8/2025 11:20	64101	REFR_T1	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
1/8/2025 11:23	64101	REFR_T1	0	0	0	0	0	0	0.05	0.07	0	0	0	0	0	0
1/8/2025 11:30	41801	GOCI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 11:30	16004	DORN_T1	0	0	0	0	0	0	-1.02	-1.02	1	1	0	1200	1200	0
1/8/2025 11:30	16005	DORN_T1	1	1	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
1/8/2025 11:31	47203	FAXO_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/8/2025 11:31	47202	FAXO_T2	0	0	0	0	0	0	-2.25	-2.22	0	0	0	0	0	0
1/8/2025 11:33	64203	KINZ_T1	6	3	-3	1.02	0	-1.02	0	0	0	0	0	0	0	0
1/8/2025 11:33	64201	KINZ_T1	0	0	0	0	0	0	-0.21	-0.38	4	4	0	2100	2100	0
1/8/2025 11:33	64204	KINZ_T1	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
1/8/2025 11:33	64202	KINZ_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
1/8/2025 11:36	13606	RICH_T2	2	1	-1	0.55	0	-0.55	0	0	0	0	0	0	0	0
1/8/2025 11:36	13604	RICH_T2	0	0	0	0	0	0	0	0	2	2	0	1500	1500	0
1/8/2025 11:39	58401	MORO_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
1/8/2025 11:40	54601	SUMM_T2	0	1	1	0	0.2	0.2	-1.68	-1.67	2	2	0	2100	2100	0
1/8/2025 11:40	16302	ALPA_T2	0	1	1	0	0.4	0.4	-0.62	-0.64	0	0	0	0	0	0
1/8/2025 11:41	42504	ALTA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/8/2025 11:41	42501	ALTA_T2	0	0	0	0	0	0	0.08	0.12	1	1	0	600	600	0
1/8/2025 11:42	44302	BEAV_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
1/8/2025 11:42	44301	BEAV_T2	1	1	0	7.1	7	-0.1	-0.19	-0.04	2	2	0	1500	1500	0
1/8/2025 11:43	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/8/2025 11:43	46206	DANV_T2	0	3	3	0	1.3	1.3	0	0	0	0	0	0	0	0
1/8/2025 11:43	52402	GRPA_T2	1	2	1	0.3	0.3	0	-0.77	-0.77	0	0	0	0	0	0
1/8/2025 11:43	46204	DANV_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/8/2025 11:43	52401	GRPA_T2	1	2	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
1/8/2025 11:43	46203	DANV_T2	0	0	0	0	0	0	-0.33	-0.37	0	0	0	0	0	0
1/8/2025 11:43	52403	GRPA_T2	1	4	3	1.1	0.17	-0.93	0	0	0	0	0	0	0	0
1/8/2025 11:44	52004	LING_T2	2	2	0	5.65	5.7	0.05	0.32	0.34	0	0	0	0	0	0
1/8/2025 11:44	46206	DANV_T2	0	3	3	0	1.3	1.3	0	0	0	0	0	0	0	0
1/8/2025 11:44	16007	DORN_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
1/8/2025 11:44	46204	DANV_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/8/2025 11:44	16005	DORN_T1	1	1	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
1/8/2025 11:44	46203	DANV_T2	0	0	0	0	0	0	-0.33	-0.37	0	0	0	0	0	0
1/8/2025 11:45	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
1/8/2025 11:46	52404	GRPA_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 11:46	11302	EMMA_T1	3	5	2	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
1/8/2025 11:46	52403	GRPA_T2	4	3	-1	0.43	0.35	-0.08	0	0	0	0	0	0	0	0
1/8/2025 11:46	52401	GRPA_T2	1	2	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
1/8/2025 11:46	52004	LING_T2	2	2	0	5.7	5.7	0	0.32	0.34	0	0	0	0	0	0
1/8/2025 11:46	11301	EMMA_T1	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
1/8/2025 11:46	52402	GRPA_T2	1	4	3	0.5	0.15	-0.35	-0.77	-0.77	0	0	0	0	0	0
1/8/2025 11:46	11303	EMMA_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
1/8/2025 11:48	20603	GRWO_T2	6	8	2	0.23	0.23	0	-0.51	-0.52	1	1	0	900	900	0
1/8/2025 11:48	13503	MCMI_T2	0	1	1	0	0	0	0.37	0.4	0	0	0	0	0	0
1/8/2025 11:48	10801	CHHI_T1	1	1	0	0.5	0.4	-0.1	-1.28	-1.28	2	2	0	1500	1500	0
1/8/2025 11:48	20601	GRWO_T2	5	16	11	0.68	1.08	0.4	0	0	0	0	0	0	0	0
1/8/2025 11:50	10805	CHHI_T2	1	11	10	7.4	1.01	-6.39	-0.75	-0.77	1	1	0	600	600	0
1/8/2025 11:52	14403	SSLA_T1	1	1	0	0.4	0.2	-0.2	0.94	0.94	0	0	0	0	0	0
1/8/2025 11:52	55101	WERT_T1	0	0	0	0	0	0	-1.42	-1.3	2	2	0	1500	1500	0
1/8/2025 11:52	14401	SSLA_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 11:52	14402	SSLA_T1	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 11:53	66901	SHIL_T2	25	28	3	0.12	0.16	0.04	0	0	0	0	0	0	0	0
1/8/2025 11:53	64305	LINC_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/8/2025 11:53	66903	SHIL_T2	0	0	0	0	0	0	-1.16	-1.15	0	0	0	0	0	0
1/8/2025 11:53	66902	SHIL_T2	1	0	-1	6.1	0	-6.1	0	0	0	0	0	0	0	0
1/8/2025 11:53	64301	LINC_T1	0	1	1	0	0.1	0.1	-0.82	-0.89	0	0	0	0	0	0
1/8/2025 11:54	64305	LINC_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/8/2025 11:54	66902	SHIL_T2	1	0	-1	6.1	0	-6.1	0	0	0	0	0	0	0	0
1/8/2025 11:54	66903	SHIL_T2	0	0	0	0	0	0	-3.48	-3.45	0	0	0	0	0	0
1/8/2025 11:54	64301	LINC_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/8/2025 11:54	14402	SSLA_T1	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 11:54	14401	SSLA_T1	0	3	3	0	0	0	-1.51	-1.49	2	2	0	1800	1800	0
1/8/2025 11:54	14403	SSLA_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
1/8/2025 11:54	66901	SHIL_T2	25	28	3	0.12	0.16	0.04	0	0	0	0	0	0	0	0
1/8/2025 11:55	66901	SHIL_T2	25	28	3	0.12	0.16	0.04	-1.54	-1.53	1	1	0	1200	1200	0
1/8/2025 11:55	64305	LINC_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/8/2025 11:55	64301	LINC_T1	0	1	1	0	0.1	0.1	-0.82	-0.89	0	0	0	0	0	0
1/8/2025 11:55	44901	SCOT_T1	3	4	1	1	1.08	0.08	0	0	0	0	0	0	0	0
1/8/2025 11:55	66902	SHIL_T2	1	0	-1	6.1	0	-6.1	-0.92	-0.92	0	0	0	0	0	0
1/8/2025 11:56	66903	SHIL_T2	0	0	0	0	0	0	-1.16	-1.15	0	0	0	0	0	0
1/8/2025 11:56	66901	SHIL_T2	25	28	3	0.12	0.16	0.04	0	0	0	0	0	0	0	0
1/8/2025 11:56	66902	SHIL_T2	1	0	-1	6.1	0	-6.1	0	0	0	0	0	0	0	0
1/8/2025 11:56	55101	WERT_T1	0	0	0	0	0	0	-1.42	-1.3	2	2	0	1500	1500	0
1/8/2025 11:57	66901	SHIL_T2	25	28	3	0.12	0.16	0.04	0	0	0	0	0	0	0	0
1/8/2025 11:57	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 11:57	66902	SHIL_T2	1	0	-1	6.1	0	-6.1	0	0	0	0	0	0	0	0
1/8/2025 11:58	58202	NEWV_T1	0	0	0	0	0	0	-0.07	-0.18	0	0	0	0	0	0
1/8/2025 12:01	44502	HAMI_T2	1	1	0	2	2	0	0.05	0.05	0	0	0	0	0	0
1/8/2025 12:03	13503	MCMI_T2	1	0	-1	0.2	0	-0.2	0.4	0.53	0	0	0	0	0	0
1/8/2025 12:05	55002	NEWP_T1	6	6	0	0.73	0.78	0.05	-0.34	-0.3	0	0	0	0	0	0
1/8/2025 12:06	14402	SSLA_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
1/8/2025 12:06	14401	SSLA_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
1/8/2025 12:06	14403	SSLA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/8/2025 12:08	14401	SSLA_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
1/8/2025 12:08	14403	SSLA_T1	1	1	0	0.2	0.1	-0.1	0.94	0.93	0	0	0	0	0	0
1/8/2025 12:08	14402	SSLA_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
1/8/2025 12:14	20201	JERM_T1	0	0	0	0	0	0	-0.15	-0.08	2	2	0	2400	2400	0
1/8/2025 12:15	41501	FAIR_T2	0	0	0	0	0	0	-0.91	-0.89	1	1	0	600	600	0
1/8/2025 12:17	46506	LOHA_T1	3	3	0	1.67	2.03	0.36	0	0	0	0	0	0	0	0
1/8/2025 12:17	46501	LOHA_T1	75	81	6	0.74	0.74	0	-0.22	-0.19	1	1	0	1200	1200	0
1/8/2025 12:18	65502	MOJO_T2	0	0	0	0	0	0	-1.15	-1.23	1	1	0	900	900	0
1/8/2025 12:19	65503	MOJO_T2	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
1/8/2025 12:19	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 12:20	46501	LOHA_T1	75	81	6	0.74	0.74	0	-0.22	-0.19	1	1	0	1200	1200	0
1/8/2025 12:20	13701	SCHN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/8/2025 12:20	46203	DANV_T2	0	1	1	0	0	0	-0.44	-0.4	0	0	0	0	0	0
1/8/2025 12:20	46206	DANV_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/8/2025 12:20	13704	SCHN_T2	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
1/8/2025 12:20	46506	LOHA_T1	3	3	0	1.67	2.03	0.36	0	0	0	0	0	0	0	0
1/8/2025 12:20	65502	MOJO_T2	0	0	0	0	0	0	-1.15	-1.23	1	1	0	900	900	0
1/8/2025 12:21	64301	LINC_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 12:21	64305	LINC_T1	0	0	0	0	0	0	-0.21	-0.33	0	0	0	0	0	0
1/8/2025 12:22	52504	PROG_T1	35	25	-10	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
1/8/2025 12:22	64101	REFR_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
1/8/2025 12:22	52501	PROG_T1	67	29	-38	0.16	0.11	-0.05	0.62	0.65	1	1	0	300	300	0
1/8/2025 12:23	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 12:24	44905	SCOT_T1	4	2	-2	1.13	0.5	-0.63	0	0	0	0	0	0	0	0
1/8/2025 12:24	44904	SCOT_T1	0	0	0	0	0	0	0.78	0.83	0	0	0	0	0	0
1/8/2025 12:25	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 12:31	46802	HEPB_T1	1	1	0	1.1	1.7	0.6	-1.15	-1.17	0	0	0	0	0	0
1/8/2025 12:33	13501	MCMI_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
1/8/2025 12:33	13502	MCMI_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
1/8/2025 12:35	58102	NEWP_T1	1	2	1	1	2	1.1	-0.9	-0.79	-0.82	1	1	0	1200	1200
1/8/2025 12:38	64101	REFR_T1	0	0	0	0	0	0	0	0.04	0.07	0	0	0	0	0
1/8/2025 12:40	44301	BEAV_T2	7	1	-6	1.45	7.9	6.45	0	0	0	0	0	0	0	0
1/8/2025 12:40	44302	BEAV_T2	187	22	-165	0.38	0.3	-0.08	0.3	0.26	0	0	0	0	0	0
1/8/2025 12:42	42503	ALTA_T2	3	0	-3	0.5	0	-0.5	0.22	0.16	0	0	0	0	0	0
1/8/2025 12:42	42504	ALTA_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/8/2025 12:42	60801	BUCK_T1	68	43	-25	0.4	0.32	-0.08	-0.1	0.14	0	0	0	0	0	0
1/8/2025 12:42	60803	BUCK_T1	31	23	-8	0.69	0.6	-0.09	0	0	0	0	0	0	0	0
1/8/2025 12:43	44302	BEAV_T2	187	22	-165	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
1/8/2025 12:43	44301	BEAV_T2	7	1	-6	1.45	7.9	6.45	0	0	0	0	0	0	0	0
1/8/2025 12:44	60801	BUCK_T1	68	43	-25	0.4	0.32	-0.08	-0.1	0.14	0	0	0	0	0	0
1/8/2025 12:44	60803	BUCK_T1	31	23	-8	0.69	0.6	-0.09	0	0	0	0	0	0	0	0
1/8/2025 12:47	55508	HERS_T2	2	2	0	1.65	1.65	0	0	0	1	1	0	1200	1200	0
1/8/2025 12:48	20601	GRWO_T2	1	3	2	0.1	0.2	0.1	0.79	0.83	0	0	0	0	0	0
1/8/2025 12:48	20603	GRWO_T2	16	19	3	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
1/8/2025 12:49	55507	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 12:49	55501	HERS_T1	3	29	26	0.1	0.1	0	0	0	0	0	0	0	0	0
1/8/2025 12:52	58102	NEWP_T1	2	1	-1	1.1	1	-0.1	0.43	0.39	0	0	0	0	0	0
1/8/2025 12:52	55002	NEWP_T1	4	7	3	0.58	0.99	0.41	-0.3	-0.3	0	0	0	0	0	0
1/8/2025 12:53	55002	NEWP_T1	4	7	3	0.58	0.99	0.41	-0.15	-0.15	0	0	0	0	0	0
1/8/2025 12:54	13904	SEID_T1	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
1/8/2025 12:54	13902	SEID_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 12:57	61701	ELIZ_T1	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0	0
1/8/2025 12:57	61703	ELIZ_T1	0	0	0	0	0	0	-5.63	-5.51	3	3	0	2700	2700	0
1/8/2025 12:58	61703	ELIZ_T1	0	0	0	0	0	0	-1.88	-1.84	1	1	0	900	900	0
1/8/2025 12:58	67101	SPRI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/8/2025 12:58	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 12:58	61701	ELIZ_T1	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/8/2025 13:00	67106	SPRI_T2	0	0	0	0	0	0	-1.01	-1.01	1	1	0	900	900	0
1/8/2025 13:00	67101	SPRI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/8/2025 13:01	45802	HEGI_T2	43	5	-38	1.14	0.15	-0.99	-0.24	0.64	1	1	0	900	900	0
1/8/2025 13:01	61701	ELIZ_T1	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:01	63501	HEID_TBK1-2	7	11	4	0.23	0.35	0.12	0.13	0.12	1	1	0	900	900	0
1/8/2025 13:01	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:02	54506	ENOL_T2	0	0	0	0	0	0	0.31	0.3	1	1	0	600	600	0
1/8/2025 13:02	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/8/2025 13:03	63501	HEID_TBK1-2	7	11	4	0.23	0.35	0.12	0.26	0.25	2	2	0	1800	1800	0
1/8/2025 13:03	45802	HEGI_T2	43	5	-38	1.14	0.15	-0.99	-0.24	0.64	1	1	0	900	900	0
1/8/2025 13:08	42504	ALTA_T2	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:08	55101	WERT_T1	0	0	0	0	0	0	-1.41	-1.32	2	2	0	1500	1500	0
1/8/2025 13:08	44601	SALE_T2	0	1	1	0	0	0	-0.06	0	0	0	0	0	0	0
1/8/2025 13:08	42501	ALTA_T2	0	0	0	0	0	0	0.06	0.07	1	1	0	600	600	0
1/8/2025 13:09	42504	ALTA_T2	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:09	42501	ALTA_T2	0	0	0	0	0	0	0.11	0.14	2	2	0	1200	1200	0
1/8/2025 13:10	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:10	13904	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/8/2025 13:10	13902	SEID_T1	3	0	-3	0.67	0	-0.67	0	0	0	0	0	0	0	0
1/8/2025 13:12	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/8/2025 13:12	54504	ENOL_T2	0	0	0	0	0	0	-0.97	-0.96	1	1	0	600	600	0
1/8/2025 13:14	45802	HEGI_T2	43	5	-38	1.14	0.15	-0.99	0.64	0.75	1	1	0	900	900	0
1/8/2025 13:17	22601	KIMB_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/8/2025 13:17	45802	HEGI_T2	5	3	-2	0.26	0.2	-0.06	0.64	0.75	1	1	0	900	900	0
1/8/2025 13:17	22602	KIMB_T1	0	0	0	0	0	0	0.18	0.27	0	0	0	0	0	0
1/8/2025 13:20	53501	EVIL_T2	1	2	1	0.3	0.35	0.05	-1.31	-1.3	2	2	0	1200	1200	0
1/8/2025 13:20	53502	EVIL_T2	1	1	0	1.5	0.1	-1.4	0	0	0	0	0	0	0	0
1/8/2025 13:21	65703	RVIL_T1	0	0	0	0	0	0	-1.18	-1.19	1	1	0	900	900	0
1/8/2025 13:23	65702	RVIL_T2	0	0	0	0	0	0	-1.36	-1.33	1	1	0	600	600	0
1/8/2025 13:24	41902	REED_T1	1	1	0	0.4	0	-0.4	0.4	0.35	1	1	0	900	900	0
1/8/2025 13:24	65702	RVIL_T2	0	0	0	0	0	0	-1.36	-1.33	1	1	0	600	600	0
1/8/2025 13:24	41901	REED_T1	7	8	1	0.36	0.45	0.09	0	0	0	0	0	0	0	0
1/8/2025 13:25	61102	BERK_T5	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:25	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/8/2025 13:25	61103	BERK_T5	17	6	-11	0.14	0.22	0.08	0.11	0.11	0	0	0	0	0	0
1/8/2025 13:25	64101	REFR_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
1/8/2025 13:25	20401	ASHF_T2	4	6	2	0.23	0.24	0.01	0	0	0	0	0	0	0	0
1/8/2025 13:25	65702	RVIL_T2	0	0	0	0	0	0	-1.36	-1.33	1	1	0	600	600	0
1/8/2025 13:25	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.35	0.29	0	0	0	0	0	0
1/8/2025 13:26	65702	RVIL_T2	0	0	0	0	0	0	-1.36	-1.33	1	1	0	600	600	0
1/8/2025 13:27	61103	BERK_T5	17	6	-11	0.14	0.22	0.08	0.11	0.11	0	0	0	0	0	0
1/8/2025 13:27	61102	BERK_T5	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:28	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/8/2025 13:28	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.35	0.29	0	0	0	0	0	0
1/8/2025 13:28	20401	ASHF_T2	4	6	2	0.23	0.24	0.01	0	0	0	0	0	0	0	0
1/8/2025 13:28	61102	BERK_T5	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:28	61103	BERK_T5	17	6	-11	0.14	0.22	0.08	0.11	0.11	0	0	0	0	0	0
1/8/2025 13:30	20401	ASHF_T2	5	3	-2	0.24	0.27	0.03	0	0	0	0	0	0	0	0
1/8/2025 13:30	20402	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 13:30	20403	ASHF_T2	1	1	0	0.1	0.3	0.2	0.35	0.29	0	0	0	0	0	0
1/8/2025 13:32	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.22	0	0	0	0	0	0
1/8/2025 13:32	22601	KIMB_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/8/2025 13:36	13702	SCHN_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
1/8/2025 13:36	13302	ORVI_T2	0	0	0	0	0	0	1.52	1.55	0	0	0	0	0	0
1/8/2025 13:37	49803	UNIV_T1	2	2	0	3.35	3.1	-0.25	-0.92	-0.95	0	0	0	0	0	0
1/8/2025 13:38	12801	MICK_T1	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
1/8/2025 13:38	14401	SSLA_T1	66	8	-58	0.2	0.25	0.05	0	0	0	0	0	0	0	0
1/8/2025 13:38	66902	SHIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:38	49803	UNIV_T1	2	2	0	3.35	3.1	-0.25	0	0	0	0	0	0	0	0
1/8/2025 13:38	14403	SSLA_T1	1	0	-1	0.1	0	-0.1	0.94	0.93	0	0	0	0	0	0
1/8/2025 13:38	49804	UNIV_T1	0	0	0	0	0	0	0.64	0.57	0	0	0	0	0	0
1/8/2025 13:38	15102	UPHA_T1	5	2	-3	0.52	0.7	0.18	0	0	0	0	0	0	0	0
1/8/2025 13:38	66901	SHIL_T2	45	9	-36	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
1/8/2025 13:38	43301	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:38	12802	MICK_T1	0	0	0	0	0	0	-1	-1.04	0	0	0	0	0	0
1/8/2025 13:38	12807	MICK_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
1/8/2025 13:38	43304	WATS_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/8/2025 13:38	66903	SHIL_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:38	12803	MICK_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
1/8/2025 13:38	42401	GIMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:38	15101	UPHA_T1	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
1/8/2025 13:39	65005	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:39	42701	AUGU_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:39	42501	ALTA_T2	0	0	0	0	0	0	0.05	0.1	1	1	0	600	600	0
1/8/2025 13:39	27502	WEIS_T2	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
1/8/2025 13:39	24801	VALM_T1	1	1	0	0.4	0	-0.4	-0.27	-0.29	0	0	0	0	0	0
1/8/2025 13:40	12803	MICK_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
1/8/2025 13:40	20401	ASHF_T2	5	3	-2	0.24	0.27	0.03	-0.09	-0.08	0	0	0	0	0	0
1/8/2025 13:40	11901	ETEX_T2	0	0	0	0	0	0	0.48	0.41	0	0	0	0	0	0
1/8/2025 13:40	66903	SHIL_T2	2	1	-1	0.2	0.1	-0.1	-1.15	-1.15	0	0	0	0	0	0
1/8/2025 13:40	43304	WATS_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/8/2025 13:40	43301	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:40	60803	BUCK_T1	18	20	2	0.53	0.46	-0.07	-0.46	-0.47	1	1	0	600	600	0
1/8/2025 13:40	20403	ASHF_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/8/2025 13:40	60801	BUCK_T1	22	20	-2	0.32	0.23	-0.09	0	0	0	0	0	0	0	0
1/8/2025 13:40	54601	SUMM_T2	2	2	0	0.4	0.25	-0.15	-1.68	-1.65	2	2	0	2100	2100	0
1/8/2025 13:40	42701	AUGU_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:40	12802	MICK_T1	0	0	0	0	0	0	-1	-1.04	0	0	0	0	0	0
1/8/2025 13:40	13702	SCHN_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
1/8/2025 13:40	16302	ALPA_T2	0	1	1	0	0.1	0.1	-1.22	-1.28	0	0	0	0	0	0
1/8/2025 13:40	20402	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 13:40	12801	MICK_T1	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
1/8/2025 13:40	66901	SHIL_T2	45	9	-36	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
1/8/2025 13:40	60201	ATGL_T2	90	108	18	0.33	0.35	0.02	0.19	0.26	0	0	0	0	0	0
1/8/2025 13:40	66902	SHIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:40	12807	MICK_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
1/8/2025 13:41	66902	SHIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:41	60801	BUCK_T1	22	20	-2	0.32	0.23	-0.09	0	0	0	0	0	0	0	0
1/8/2025 13:41	66901	SHIL_T2	45	9	-36	0.13	0.1	-0.03	-1.62	-1.6	1	1	0	1200	1200	0
1/8/2025 13:41	27202	YATE_T2	0	0	0	0	0	0	-1.81	-1.75	1	1	0	900	900	0
1/8/2025 13:41	66903	SHIL_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:41	51902	COPA_T1	8	10	2	0.11	0.12	0.01	0	0	0	0	0	0	0	0
1/8/2025 13:41	43304	WATS_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/8/2025 13:41	46002	BERW_T2	0	0	0	0	0	0	-1.3	-1.07	2	2	0	1800	1800	0
1/8/2025 13:41	27502	WEIS_T2	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
1/8/2025 13:41	51904	COPA_T1	4	4	0	0.33	0.43	0.1	0	0	0	0	0	0	0	0
1/8/2025 13:41	60803	BUCK_T1	18	20	2	0.53	0.46	-0.07	-0.92	-0.94	2	2	0	1200	1200	0
1/8/2025 13:41	46005	BERW_T1	0	0	0	0	0	0	-1.77	-1.77	2	2	0	2100	2100	0
1/8/2025 13:41	51906	COPA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/8/2025 13:41	43301	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:41	60701	BREC_T1	0	1	1	0	0.1	0.1	-0.5	-0.59	4	4	0	2400	2400	0
1/8/2025 13:42	51002	NHAR_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
1/8/2025 13:42	42701	AUGU_T1	1	1	0	1	0.9	-0.1	0	0	2	2	0	1800	1800	0
1/8/2025 13:42	66901	SHIL_T2	45	9	-36	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
1/8/2025 13:42	11901	ETEX_T2	0	0	0	0	0	0	0.48	0.41	0	0	0	0	0	0
1/8/2025 13:42	60803	BUCK_T1	18	20	2	0.53	0.46	-0.07	-0.46	-0.47	1	1	0	600	600	0
1/8/2025 13:42	24801	VALM_T1	1	1	0	0.4	0	-0.4	-0.27	-0.29	0	0	0	0	0	0
1/8/2025 13:42	61304	EARL_T1	0	0	0	0	0	0	-0.65	-0.68	1	1	0	600	600	0
1/8/2025 13:42	51902	COPA_T1	8	10	2	0.11	0.12	0.01	-1.67	-1.7	0	0	0	0	0	0
1/8/2025 13:42	44801	EDAN_T2	2	2	0	0.45	0.15	-0.3	0	0	0	0	0	0	0	0
1/8/2025 13:42	51004	NHAR_T1	3	4	1	3.7	2.83	-0.87	-0.48	-0.46	0	0	0	0	0	0
1/8/2025 13:42	13002	NBET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:42	43304	WATS_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/8/2025 13:42	66903	SHIL_T2	2	1	-1	0.2	0.1	-0.1	-2.3	-2.3	0	0	0	0	0	0
1/8/2025 13:42	66902	SHIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:42	61303	EARL_T1	0	0	0	0	0	0	1	1.06	0	0	0	0	0	0
1/8/2025 13:42	51003	NHAR_T1	1	1	0	6.8	6.8	0	-1.76	-1.73	1	1	0	1200	1200	0
1/8/2025 13:42	60801	BUCK_T1	22	20	-2	0.32	0.23	-0.09	0.08	0.12	0	0	0	0	0	0
1/8/2025 13:42	51006	NHAR_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/8/2025 13:42	67303	WYOM_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
1/8/2025 13:42	42501	ALTA_T2	0	0	0	0	0	0	0.11	0.19	2	2	0	1200	1200	0
1/8/2025 13:42	46002	BERW_T2	0	0	0	0	0	0	-0.65	-0.54	1	1	0	900	900	0
1/8/2025 13:42	51904	COPA_T1	4	4	0	0.33	0.43	0.1	0	0	0	0	0	0	0	0
1/8/2025 13:42	16302	ALPA_T2	0	1	1	0	0.1	0.1	-1.22	-1.28	0	0	0	0	0	0
1/8/2025 13:42	44802	EDAN_T2	0	0	0	0	0	0	-2.06	-2.08	0	0	0	0	0	0
1/8/2025 13:42	43302	WATS_T2	0	0	0	0	0	0	0	0	3	3	0	2400	2400	0
1/8/2025 13:42	51906	COPA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/8/2025 13:43	46004	BERW_T2	0	0	0	0	0	0	-0.11	-0.18	0	0	0	0	0	0
1/8/2025 13:43	40902	JESH_T1	0	0	0	0	0	0	-0.88	-0.97	1	1	0	600	600	0
1/8/2025 13:43	51006	NHAR_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/8/2025 13:43	51003	NHAR_T1	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
1/8/2025 13:43	44802	EDAN_T2	0	0	0	0	0	0	-8.24	-8.32	0	0	0	0	0	0
1/8/2025 13:43	42501	ALTA_T2	0	0	0	0	0	0	0.21	0.38	4	4	0	2400	2400	0
1/8/2025 13:43	44801	EDAN_T2	2	2	0	0.45	0.15	-0.3	0	0	0	0	0	0	0	0
1/8/2025 13:43	51002	NHAR_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
1/8/2025 13:43	51005	NHAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:43	57702	PAXT_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
1/8/2025 13:43	60701	BREC_T1	0	1	1	0	0.1	0.1	-0.75	-0.89	6	6	0	3600	3600	0
1/8/2025 13:43	27502	WEIS_T2	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
1/8/2025 13:43	51004	NHAR_T1	3	4	1	3.7	2.83	-0.87	-0.48	-0.46	0	0	0	0	0	0
1/8/2025 13:43	40901	JESH_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
1/8/2025 13:43	52401	GRPA_T2	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
1/8/2025 13:43	52402	GRPA_T2	4	3	-1	0.63	0.43	-0.2	0	0	0	0	0	0	0	0
1/8/2025 13:43	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:43	52403	GRPA_T2	1	1	0	0.8	0.2	-0.6	0.03	-0.05	0	0	0	0	0	0
1/8/2025 13:43	42701	AUGU_T1	1	1	0	1	0.9	-0.1	0	0	4	4	0	3600	3600	0
1/8/2025 13:44	11904	ETEX_T2	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
1/8/2025 13:44	63401	HONY_T1	0	0	0	0	0	0	0.23	0.12	1	1	0	600	600	0
1/8/2025 13:44	20603	GRWO_T2	38	64	26	0.26	0.27	0.01	0	0	0	0	0	0	0	0
1/8/2025 13:44	20601	GRWO_T2	3	0	-3	0.47	0	-0.47	0.69	0.63	0	0	0	0	0	0
1/8/2025 13:44	13002	NBET_T2	0	0	0	0	0	0	-0.29	-0.35	1	1	0	1200	1200	0
1/8/2025 13:44	60701	BREC_T1	0	1	1	0	0.1	0.1	-0.75	-0.89	6	6	0	3600	3600	0
1/8/2025 13:44	46203	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/8/2025 13:44	44802	EDAN_T2	0	0	0	0	0	0	-2.06	-2.08	0	0	0	0	0	0
1/8/2025 13:44	44801	EDAN_T2	2	2	0	0.45	0.15	-0.3	0	0	0	0	0	0	0	0
1/8/2025 13:44	53601	DALM_T2	0	1	1	0	0.3	0.3	-0.59	-0.57	1	1	0	900	900	0
1/8/2025 13:44	46206	DANV_T2	0	0	0	0	0	0	3.72	3.63	4	4	0	4200	4200	0
1/8/2025 13:45	55501	HERS_T1	52	52	0	0.24	0.12	-0.12	0	0	0	0	0	0	0	0
1/8/2025 13:45	40701	FFLD_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:45	48901	FOSP_T2	4	2	-2	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
1/8/2025 13:45	45802	HEGI_T2	2	45	43	0.2	1.56	1.36	0.8	-0.28	1	1	0	900	900	0
1/8/2025 13:45	60701	BREC_T1	0	1	1	0	0.1	0.1	-0.25	-0.3	2	2	0	1200	1200	0
1/8/2025 13:45	44501	HAMI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:45	48902	FOSP_T2	8	4	-4	0.31	0.33	0.02	-0.2	-0.19	1	1	0	1200	1200	0
1/8/2025 13:45	44502	HAMI_T2	1	1	0	2.4	2.2	-0.2	0.05	0.06	0	0	0	0	0	0
1/8/2025 13:45	51006	NHAR_T1	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
1/8/2025 13:45	67501	WEWI_T1	0	0	0	0	0	0	-0.95	-1.11	1	1	0	600	600	0
1/8/2025 13:45	51002	NHAR_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:45	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:45	51004	NHAR_T1	4	2	-2	2.83	5.7	2.87	0	0	0	0	0	0	0	0
1/8/2025 13:45	46004	BERW_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:45	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:45	46002	BERW_T2	0	0	0	0	0	0	-0.65	-0.54	1	1	0	900	900	0
1/8/2025 13:45	40901	JESH_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/8/2025 13:45	40902	JESH_T1	0	0	0	0	0	0	-0.88	-0.97	1	1	0	600	600	0
1/8/2025 13:45	46203	DANV_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
1/8/2025 13:45	55503	HERS_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
1/8/2025 13:45	44503	HAMI_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:45	51003	NHAR_T1	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:46	11303	EMMA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/8/2025 13:46	60803	BUCK_T1	19	20	1	0.47	0.46	-0.01	0	0	0	0	0	0	0	0
1/8/2025 13:46	64203	KINZ_T1	0	0	0	0	0	0	-0.85	-0.84	3	3	0	2100	2100	0
1/8/2025 13:46	64204	KINZ_T1	1	18	17	0.2	0.34	0.14	0	0	0	0	0	0	0	0
1/8/2025 13:46	47002	HUGH_T2	1	3	2	0.4	0.45	0.05	0	0	0	0	0	0	0	0
1/8/2025 13:46	48902	FOSP_T2	8	4	-4	0.31	0.33	0.02	-0.2	-0.19	1	1	0	1200	1200	0
1/8/2025 13:46	47001	HUGH_T2	6	14	8	4.45	2.01	-2.44	-1.53	-1.58	1	1	0	900	900	0
1/8/2025 13:46	10903	COOP_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 13:46	44802	EDAN_T2	0	0	0	0	0	0	-2.06	-2.08	0	0	0	0	0	0
1/8/2025 13:46	13002	NBET_T2	0	0	0	0	0	0	-0.29	-0.35	1	1	0	1200	1200	0
1/8/2025 13:46	11202	ELHE_T2	0	1	1	0	0	0	0.42	0.41	1	1	0	1200	1200	0
1/8/2025 13:46	60801	BUCK_T1	20	11	-9	0.23	0.13	-0.1	0.08	0.12	0	0	0	0	0	0
1/8/2025 13:46	44801	EDAN_T2	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
1/8/2025 13:46	48901	FOSP_T2	4	2	-2	0.18	0.1	-0.08	0.05	0.06	1	1	0	600	600	0
1/8/2025 13:46	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:46	11301	EMMA_T1	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
1/8/2025 13:46	11302	EMMA_T1	3	1	-2	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
1/8/2025 13:47	59202	THOM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 13:47	63802	HEMP_T1	0	0	0	0	0	0	0.26	0.22	0	0	0	0	0	0
1/8/2025 13:47	40601	PIGR_T1	1	7	6	0.1	0.24	0.14	0	0	0	0	0	0	0	0
1/8/2025 13:47	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:47	44802	EDAN_T2	0	0	0	0	0	0	-2.06	-2.08	0	0	0	0	0	0
1/8/2025 13:47	64204	KINZ_T1	1	18	17	0.2	0.34	0.14	0	0	0	0	0	0	0	0
1/8/2025 13:47	66903	SHIL_T2	0	1	1	0	0.1	0.1	-1.15	-1.15	0	0	0	0	0	0
1/8/2025 13:47	21705	SUBU_T1	2	2	0	4.7	4.75	0.05	0	0	0	0	0	0	0	0
1/8/2025 13:47	63401	HONY_T1	0	0	0	0	0	0	0.23	0.12	1	1	0	600	600	0
1/8/2025 13:47	21701	SUBU_T1	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
1/8/2025 13:47	63804	HEMP_T1	8	5	-3	1.3	1.58	0.28	0	0	0	0	0	0	0	0
1/8/2025 13:47	40901	JESH_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/8/2025 13:47	44503	HAMI_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:47	44801	EDAN_T2	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
1/8/2025 13:47	44501	HAMI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:47	40902	JESH_T1	0	0	0	0	0	0	-0.88	-0.97	1	1	0	600	600	0
1/8/2025 13:47	44502	HAMI_T2	1	1	0	2.4	2.2	-0.2	0.05	0.06	0	0	0	0	0	0
1/8/2025 13:47	48901	FOSP_T2	4	2	-2	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
1/8/2025 13:47	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:47	66901	SHIL_T2	9	4	-5	0.1	0.1	0	0	0	0	0	0	0	0	0
1/8/2025 13:47	63801	HEMP_T1	0	0	0	0	0	0	0.21	0.42	0	0	0	0	0	0
1/8/2025 13:47	48902	FOSP_T2	8	4	-4	0.31	0.33	0.02	-0.2	-0.19	1	1	0	1200	1200	0
1/8/2025 13:47	64202	KINZ_T1	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
1/8/2025 13:48	10805	CHHI_T2	4	1	-3	1.95	7.1	5.15	-0.79	-0.86	1	1	0	600	600	0
1/8/2025 13:48	63401	HONY_T1	0	0	0	0	0	0	0.23	0.12	1	1	0	600	600	0
1/8/2025 13:48	42701	AUGU_T1	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
1/8/2025 13:49	22001	BOHE_T1	1	0	-1	0.1	0	-0.1	-1.44	-1.48	1	1	0	600	600	0
1/8/2025 13:49	22002	BOHE_T1	2	2	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
1/8/2025 13:49	52403	GRPA_T2	1	1	0	0.2	0.2	0	0.03	-0.05	0	0	0	0	0	0
1/8/2025 13:49	45802	HEGI_T2	2	45	43	0.2	1.56	1.36	0.8	-0.28	1	1	0	900	900	0
1/8/2025 13:49	52401	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/8/2025 13:49	22003	BOHE_T1	1	135	134	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/8/2025 13:49	54201	PENN_T1	62	41	-21	0.28	0.3	0.02	0	-0.03	0	0	0	0	0	0
1/8/2025 13:49	44703	MUNC_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
1/8/2025 13:49	46402	FLEM_T2	4	3	-1	0.58	0.1	-0.48	0	0	2	2	0	1800	1800	0
1/8/2025 13:49	46206	DANV_T2	0	0	0	0	0	0	1.86	1.82	2	2	0	2100	2100	0
1/8/2025 13:49	46401	FLEM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:49	54203	PENN_T1	100	57	-43	0.35	0.5	0.15	0	0	0	0	0	0	0	0
1/8/2025 13:49	44701	MUNC_T2	0	0	0	0	0	0	-0.99	-0.96	0	0	0	0	0	0
1/8/2025 13:49	60501	NMAN_T2	5	8	3	0.12	0.15	0.03	0	0	0	0	0	0	0	0
1/8/2025 13:49	54205	PENN_T1	27	0	-27	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:49	42701	AUGU_T1	1	1	0	0.9	0.6	-0.3	0	0	2	2	0	1800	1800	0
1/8/2025 13:49	52402	GRPA_T2	3	2	-1	0.43	0	-0.43	0	0	0	0	0	0	0	0
1/8/2025 13:49	60502	NMAN_T2	1	1	0	0.5	0.4	-0.1	-0.18	-0.2	0	0	0	0	0	0
1/8/2025 13:50	60502	NMAN_T2	1	1	0	0.5	0.4	-0.1	-0.18	-0.2	0	0	0	0	0	0
1/8/2025 13:50	59202	THOM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 13:50	14201	EALL_T1	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
1/8/2025 13:50	10805	CHHI_T2	4	1	-3	1.95	7.1	5.15	-1.59	-1.71	2	2	0	1200	1200	0
1/8/2025 13:50	44703	MUNC_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
1/8/2025 13:50	60501	NMAN_T2	5	8	3	0.12	0.15	0.03	0	0	0	0	0	0	0	0
1/8/2025 13:50	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:51	44703	MUNC_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
1/8/2025 13:51	41902	REED_T1	0	0	0	0	0	0	0.35	0.34	1	1	0	900	900	0
1/8/2025 13:51	13503	MCMI_T2	0	1	1	0	0	0	0.36	0.4	0	0	0	0	0	0
1/8/2025 13:51	41901	REED_T1	5	6	1	0.58	0.38	-0.2	0	0	0	0	0	0	0	0
1/8/2025 13:51	48602	POCA_T1	0	0	0	0	0	0	0.47	0.31	1	1	0	1200	1200	0
1/8/2025 13:52	10805	CHHI_T2	4	1	-3	1.95	7.1	5.15	-0.86	-0.79	1	1	0	600	600	0
1/8/2025 13:52	48602	POCA_T1	0	0	0	0	0	0	0.31	0.49	1	1	0	1200	1200	0
1/8/2025 13:52	41901	REED_T1	5	6	1	0.58	0.38	-0.2	0	0	0	0	0	0	0	0
1/8/2025 13:52	60501	NMAN_T2	5	8	3	0.12	0.15	0.03	0	0	0	0	0	0	0	0
1/8/2025 13:52	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:52	60502	NMAN_T2	1	1	0	0.5	0.4	-0.1	-0.2	-0.23	0	0	0	0	0	0
1/8/2025 13:52	41902	REED_T1	0	0	0	0	0	0	0.34	0.41	1	1	0	900	900	0
1/8/2025 13:52	16301	ALPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:53	44501	HAMI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:53	54203	PENN_T1	100	57	-43	0.35	0.5	0.15	0.04	0.03	0	0	0	0	0	0
1/8/2025 13:53	44503	HAMI_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 13:53	60502	NMAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:53	54205	PENN_T1	27	0	-27	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:53	60501	NMAN_T2	5	8	3	0.12	0.15	0.03	0	0	0	0	0	0	0	0
1/8/2025 13:53	54201	PENN_T1	62	41	-21	0.28	0.3	0.02	0	0	0	0	0	0	0	0
1/8/2025 13:53	44502	HAMI_T2	1	1	0	2.4	2.2	-0.2	0.06	0.06	0	0	0	0	0	0
1/8/2025 13:54	22002	BOHE_T1	2	2	0	1.3	0	-1.3	-1.38	-1.4	1	1	0	600	600	0
1/8/2025 13:54	22003	BOHE_T1	1	135	134	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/8/2025 13:54	41901	REED_T1	5	6	1	0.58	0.38	-0.2	0	0	0	0	0	0	0	0
1/8/2025 13:54	22001	BOHE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 13:54	58402	MORO_T1	0	0	0	0	0	0	-0.26	-0.19	3	3	0	2400	2400	0
1/8/2025 13:54	41902	REED_T1	0	0	0	0	0	0	0.34	0.41	1	1	0	900	900	0
1/8/2025 13:55	41902	REED_T1	0	0	0	0	0	0	0.34	0.41	1	1	0	900	900	0
1/8/2025 13:55	44703	MUNC_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
1/8/2025 13:55	41901	REED_T1	5	6	1	0.58	0.38	-0.2	0	0	0	0	0	0	0	0
1/8/2025 13:58	45501	DERR_T2	1	1	0	2.4	0	-2.4	0.51	0.49	2	2	0	1800	1800	0
1/8/2025 13:58	17802	GILB_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
1/8/2025 13:59	45501	DERR_T2	1	1	0	2.4	0	-2.4	0.51	0.49	2	2	0	1800	1800	0
1/8/2025 14:01	13503	MCMI_T2	0	1	1	0	0.7	0.7	0.36	0.4	0	0	0	0	0	0
1/8/2025 14:02	53802	MBRG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 14:02	50505	MECH_T1	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
1/8/2025 14:02	50502	MECH_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
1/8/2025 14:02	50501	MECH_T1	4	4	0	0.23	0.5	0.27	0	0	0	0	0	0	0	0
1/8/2025 14:02	53803	MBRG_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
1/8/2025 14:02	41202	KENM_T2	0	0	0	0	0	0	-0.36	-0.33	0	0	0	0	0	0
1/8/2025 14:03	41205	KENM_T2	0	0	0	0	0	0	-0.71	-0.74	1	1	0	600	600	0
1/8/2025 14:03	65003	NEFF_T2	0	0	0	0	0	0	-0.96	-0.8	2	2	0	1800	1800	0
1/8/2025 14:03	43201	MVIL_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
1/8/2025 14:03	50505	MECH_T1	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
1/8/2025 14:03	50501	MECH_T1	4	4	0	0.23	0.5	0.27	0	0	0	0	0	0	0	0
1/8/2025 14:03	47901	HRDG_T1	0	0	0	0	0	0	1.01	0.98	1	1	0	1200	1200	0
1/8/2025 14:03	47101	MARL_T1	70	75	5	0.8	0.53	-0.27	0	0	0	0	0	0	0	0
1/8/2025 14:03	50502	MECH_T1	1	1	0	1.1	1.1	0	0.14	0.18	1	1	0	900	900	0
1/8/2025 14:03	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 14:03	47104	MARL_T1	0	0	0	0	0	0	-0.78	-0.7	0	0	0	0	0	0
1/8/2025 14:04	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 14:04	27604	PIRI_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
1/8/2025 14:04	50502	MECH_T1	1	1	0	1.1	1.1	0	0.14	0.18	1	1	0	900	900	0
1/8/2025 14:04	41204	KENM_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
1/8/2025 14:04	50501	MECH_T1	4	4	0	0.23	0.5	0.27	0	0	0	0	0	0	0	0
1/8/2025 14:04	53802	MBRG_T2	0	0	0	0	0	0	2.75	2.51	0	0	0	0	0	0
1/8/2025 14:04	11504	FREE_T1	2	0	-2	0.2	0	-0.2	-2.08	-1.99	2	2	0	2100	2100	0
1/8/2025 14:04	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 14:04	65004	NEFF_T2	0	0	0	0	0	0	-1.08	-1.07	1	1	0	600	600	0
1/8/2025 14:04	48602	POCA_T1	0	0	0	0	0	0	0.31	0.49	1	1	0	1200	1200	0
1/8/2025 14:04	50506	MECH_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
1/8/2025 14:05	49803	UNIV_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
1/8/2025 14:05	16401	MOPO_T1	1	3	2	0.7	1	0.3	0	0	0	0	0	0	0	0
1/8/2025 14:05	44701	MUNC_T2	0	0	0	0	0	0	-0.96	-0.94	0	0	0	0	0	0
1/8/2025 14:05	50501	MECH_T1	4	4	0	0.23	0.5	0.27	0	0	0	0	0	0	0	0
1/8/2025 14:05	41901	REED_T1	6	6	0	0.38	0.28	-0.1	-1.2	-1.21	1	1	0	900	900	0
1/8/2025 14:05	22405	MORG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 14:05	22402	MORG_T2	17	17	0	2.42	2.28	-0.14	0	0	0	0	0	0	0	0
1/8/2025 14:05	65503	MOJO_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/8/2025 14:05	48602	POCA_T1	0	0	0	0	0	0	0.31	0.49	1	1	0	1200	1200	0
1/8/2025 14:05	44703	MUNC_T2	1	1	0	0.2	0.2	0	0.51	0.5	0	0	0	0	0	0
1/8/2025 14:05	50506	MECH_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
1/8/2025 14:05	50502	MECH_T1	1	1	0	1.1	1.1	0	0.14	0.18	1	1	0	900	900	0
1/8/2025 14:05	53802	MBRG_T2	0	0	0	0	0	0	1.37	1.26	0	0	0	0	0	0
1/8/2025 14:05	49804	UNIV_T1	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
1/8/2025 14:05	16402	MOPO_T1	0	0	0	0	0	0	-0.7	-0.73	0	0	0	0	0	0
1/8/2025 14:05	65501	MOJO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 14:06	50501	MECH_T1	4	4	0	0.23	0.5	0.27	0	0	0	0	0	0	0	0
1/8/2025 14:06	15602	NSTR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 14:06	41202	KENM_T2	0	0	0	0	0	0	-0.72	-0.66	0	0	0	0	0	0
1/8/2025 14:06	53801	MBRG_T2	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
1/8/2025 14:06	65802	RTWN_T2	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
1/8/2025 14:06	66505	SMAN_T2	3	3	0	0.5	0.33	-0.17	-0.2	-0.1	1	1	0	900	900	0
1/8/2025 14:06	65501	MOJO_T1	0	0	0	0	0	0	-1.05	-1.1	1	1	0	900	900	0
1/8/2025 14:06	43202	MVIL_T2	0	0	0	0	0	0	-0.55	-0.52	0	0	0	0	0	0
1/8/2025 14:06	10805	CHHI_T2	1	2	1	7.3	3.6	-3.7	-0.79	-0.8	1	1	0	600	600	0
1/8/2025 14:06	53803	MBRG_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
1/8/2025 14:06	42903	MIDD_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
1/8/2025 14:06	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 14:06	48601	POCA_T1	0	0	0	0	0	0	-0.58	-0.57	0	0	0	0	0	0
1/8/2025 14:06	15203	SFAR_T2	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
1/8/2025 14:06	53802	MBRG_T2	0	0	0	0	0	0	1.26	1.31	0	0	0	0	0	0
1/8/2025 14:06	15603	NSTR_T2	0	0	0	0	0	0	-1.11	-1.07	0	0	0	0	0	0
1/8/2025 14:06	22405	MORG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 14:06	50502	MECH_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
1/8/2025 14:06	22402	MORG_T2	17	17	0	2.42	2.28	-0.14	0	0	0	0	0	0	0	0
1/8/2025 14:07	13704	SCHN_T2	0	0	0	0	0	0	-0.78	-0.74	0	0	0	0	0	0
1/8/2025 14:07	65004	NEFF_T2	0	0	0	0	0	0	-1.07	-1.06	1	1	0	600	600	0
1/8/2025 14:07	16401	MOPO_T1	1	3	2	0.7	1	0.3	0	0	0	0	0	0	0	0
1/8/2025 14:07	65503	MOJO_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
1/8/2025 14:07	53803	MBRG_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
1/8/2025 14:07	48602	POCA_T1	0	0	0	0	0	0	0.49	0.46	1	1	0	1200	1200	0
1/8/2025 14:07	43202	MVIL_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
1/8/2025 14:07	41901	REED_T1	6	6	0	0.38	0.28	-0.1	0	0	0	0	0	0	0	0
1/8/2025 14:07	41204	KENM_T2	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
1/8/2025 14:07	16402	MOPO_T1	0	0	0	0	0	0	-0.73	-0.7	0	0	0	0	0	0
1/8/2025 14:07	48301	ORWI_T1	2	2	0	4.7	4.95	0.25	-0.45	-0.64	1	1	0	900	900	0
1/8/2025 14:07	42201	SHEN_T2	0	0	0	0	0	0	-0.14	-0.03	2	2	0	1200	1200	0
1/8/2025 14:08	13704	SCHN_T2	0	0	0	0	0	0	-3.89	-3.69	0	0	0	0	0	0
1/8/2025 14:08	15201	SFAR_T1	0	0	0	0	0	0	-0.62	-0.67	2	2	0	1800	1800	0
1/8/2025 14:08	65004	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 14:08	53102	WTWN_T1	0	0	0	0	0	0	-1.05	-1.04	0	0	0	0	0	0
1/8/2025 14:08	66505	SMAN_T2	3	3	0	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
1/8/2025 14:08	43304	WATS_T2	0	1	1	0	0	0	0.46	0.46	0	0	0	0	0	0
1/8/2025 14:08	13701	SCHN_T2	0	0	0	0	0	0	0.04	0.04	1	1	0	600	600	0
1/8/2025 14:08	66504	SMAN_T2	0	0	0	0	0	0	-1.13	-1.09	0	0	0	0	0	0
1/8/2025 14:08	48302	ORWI_T2	2	2	0	1	1	0	-1.08	-1.11	0	0	0	0	0	0
1/8/2025 14:08	15202	SFAR_T1	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
1/8/2025 14:08	53101	WTWN_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 14:08	15203	SFAR_T2	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
1/8/2025 14:08	10805	CHHI_T2	1	2	1	7.3	3.6	-3.7	-0.79	-0.8	1	1	0	600	600	0
1/8/2025 14:08	15204	SFAR_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
1/8/2025 14:09	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 14:09	42201	SHEN_T2	0	0	0	0	0	0	-0.07	-0.01	1	1	0	600	600	0
1/8/2025 14:09	66103	REAM_T2	0	0	0	0	0	0	0.95	0.87	1	1	0	1200	1200	0
1/8/2025 14:09	27604	PIRI_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
1/8/2025 14:09	65003	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 14:10	15203	SFAR_T2	0	0	0	0	0	0	-2.65	-2.8	0	0	0	0	0	0
1/8/2025 14:10	43304	WATS_T2	0	1	1	0	0	0	0.23	0.23	0	0	0	0	0	0
1/8/2025 14:10	13704	SCHN_T2	0	0	0	0	0	0	-0.78	-0.74	0	0	0	0	0	0
1/8/2025 14:10	48302	ORWI_T2	2	2	0	1	1	0	-0.54	-0.56	0	0	0	0	0	0
1/8/2025 14:10	42201	SHEN_T2	0	0	0	0	0	0	-0.07	-0.01	1	1	0	600	600	0
1/8/2025 14:10	53101	WTWN_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 14:10	15201	SFAR_T1	0	0	0	0	0	0	-0.62	-0.67	2	2	0	1800	1800	0
1/8/2025 14:10	53102	WTWN_T1	0	0	0	0	0	0	-1.05	-1.04	0	0	0	0	0	0
1/8/2025 14:11	61101	BERK_T5	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/8/2025 14:11	66503	SMAN_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
1/8/2025 14:11	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/8/2025 14:11	66505	SMAN_T2	3	3	0	0.5	0.33	-0.17	-0.1	-0.11	1	1	0	900	900	0
1/8/2025 14:11	61103	BERK_T5	5	6	1	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
1/8/2025 14:12	15204	SFAR_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
1/8/2025 14:12	15201	SFAR_T1	0	0	0	0	0	0	-0.62	-0.67	2	2	0	1800	1800	0
1/8/2025 14:13	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 14:13	44201	POIN_T1	8	92	84	0.11	0.27	0.16	-3.18	-4.27	4	4	0	4200	4200	0
1/8/2025 14:14	44801	EDAN_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
1/8/2025 14:14	12502	MITR_T2	1	2	1	6.6	3.4	-3.2	0	0	0	0	0	0	0	0
1/8/2025 14:14	15203	SFAR_T2	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
1/8/2025 14:14	61102	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/8/2025 14:14	61103	BERK_T5	5	6	1	0.3	0.17	-0.13	0.11	0.11	0	0	0	0	0	0
1/8/2025 14:14	61101	BERK_T5	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/8/2025 14:14	12505	MITR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 14:14	44802	EDAN_T2	0	0	0	0	0	0	-2.08	-2.12	0	0	0	0	0	0
1/8/2025 14:15	62102	ELAN_T1	0	0	0	0	0	0	0.8	0.76	0	0	0	0	0	0
1/8/2025 14:15	40901	JESH_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/8/2025 14:15	61103	BERK_T5	5	4	-1	0.18	0.18	0	0	0	0	0	0	0	0	0
1/8/2025 14:15	66505	SMAN_T2	1	3	2	0.1	0.77	0.67	0	0	0	0	0	0	0	0
1/8/2025 14:15	44201	POIN_T1	2	92	90	0.1	0.27	0.17	-6.36	-8.54	8	8	0	8400	8400	0
1/8/2025 14:15	61101	BERK_T5	1	4	3	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
1/8/2025 14:15	40802	EXCH_T2	0	0	0	0	0	0	-0.4	-0.32	0	0	0	0	0	0
1/8/2025 14:15	23901	EFMO_T2	0	1	1	0	0	0	-0.15	-0.13	0	0	0	0	0	0
1/8/2025 14:15	61102	BERK_T5	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/8/2025 14:15	66502	SMAN_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
1/8/2025 14:15	40902	JESH_T1	0	0	0	0	0	0	-0.96	-1.03	1	1	0	600	600	0
1/8/2025 14:16	44201	POIN_T1	2	92	90	0.1	0.27	0.17	-3.18	-4.27	4	4	0	4200	4200	0
1/8/2025 14:16	61306	EARL_T1	0	0	0	0	0	0	-1.26	-1.27	0	0	0	0	0	0
1/8/2025 14:17	44201	POIN_T1	2	92	90	0.1	0.27	0.17	0	0	0	0	0	0	0	0
1/8/2025 14:18	62102	ELAN_T1	0	0	0	0	0	0	0.8	0.76	0	0	0	0	0	0
1/8/2025 14:18	14604	SWHI_T1	0	0	0	0	0	0	0.52	0.55	0	0	0	0	0	0
1/8/2025 14:24	40802	EXCH_T2	0	0	0	0	0	0	-0.32	-0.4	0	0	0	0	0	0
1/8/2025 14:24	52502	PROG_T2	0	0	0	0	0	0	0.59	0.56	0	0	0	0	0	0
1/8/2025 14:24	13702	SCHN_T1	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
1/8/2025 14:28	46203	DANV_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
1/8/2025 14:28	13501	MCMI_T1	0	1	1	0	0	0	0.39	0.36	0	0	0	0	0	0
1/8/2025 14:30	60404	DILL_T2	0	0	0	0	0	0	0.06	0.01	1	1	0	1200	1200	0
1/8/2025 14:30	62606	ENGL_T1	0	0	0	0	0	0	-1.38	-1.37	1	1	0	900	900	0
1/8/2025 14:31	46206	DANV_T2	0	2	2	0	0	0	1.85	1.81	2	2	0	2100	2100	0
1/8/2025 14:32	46206	DANV_T2	0	2	2	0	0	0	3.7	3.62	4	4	0	4200	4200	0
1/8/2025 14:33	65001	NEFF_T2	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
1/8/2025 14:34	51204	MTON_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
1/8/2025 14:37	65001	NEFF_T2	0	0	0	0	0	0	0.55	0.6	0	0	0	0	0	0
1/8/2025 14:39	44703	MUNC_T2	0	1	1	0	0.1	0.1	0.56	0.5	0	0	0	0	0	0
1/8/2025 14:40	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 14:42	16101	BING_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
1/8/2025 14:42	16102	BING_T2	1	1	0	5.6	5.3	-0.3	0	0	0	0	0	0	0	0
1/8/2025 14:42	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 14:43	44703	MUNC_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/8/2025 14:53	59101	WALK_T2	0	1	1	0	0.3	0.3	1.69	1.77	1	1	0	600	600	0
1/8/2025 14:56	43304	WATS_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
1/8/2025 14:57	44301	BEAV_T2	2	2	0	4.65	8.1	3.45	-0.46	-0.28	1	1	0	600	600	0
1/8/2025 14:57	44302	BEAV_T2	27	3	-24	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
1/8/2025 14:58	44302	BEAV_T2	27	3	-24	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
1/8/2025 14:58	61305	EARL_T1	0	0	0	0	0	0	0.53	0.42	2	2	0	1500	1500	0
1/8/2025 14:58	44301	BEAV_T2	2	2	0	4.65	8.1	3.45	-0.46	-0.28	1	1	0	600	600	0
1/8/2025 15:01	43304	WATS_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
1/8/2025 15:04	15603	NSTR_T2	0	0	0	0	0	0	-1.07	-1	0	0	0	0	0	0
1/8/2025 15:10	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 15:16	46102	MACJ_T1	1	2	1	0.2	0	-0.2	0.69	0.7	0	0	0	0	0	0
1/8/2025 15:30	45802	HEGI_T2	11	18	7	0.54	0.49	-0.05	0	0	0	0	0	0	0	0
1/8/2025 15:40	16301	ALPA_T1	0	0	0	0	0	0	0.17	0.2	0	0	0	0	0	0
1/8/2025 15:40	54603	SUMM_T2	0	0	0	0	0	0	-0.24	-0.32	1	1	0	900	900	0
1/8/2025 15:40	54601	SUMM_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/8/2025 15:42	16301	ALPA_T1	0	0	0	0	0	0	0.17	0.2	0	0	0	0	0	0
1/8/2025 15:44	16301	ALPA_T1	0	0	0	0	0	0	0.34	0.4	0	0	0	0	0	0
1/8/2025 15:50	16301	ALPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 15:55	67402	WAKE_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
1/8/2025 16:00	54506	ENOL_T2	0	0	0	0	0	0	0.37	0.38	0	1	1	0	600	600
1/8/2025 16:00	54505	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/8/2025 16:07	41901	REED_T1	9	12	3	0.44	0.73	0.29	0	0	0	0	0	0	0	0
1/8/2025 16:07	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 16:07	41902	REED_T1	0	2	2	0	0	0	0.48	0.43	1	1	0	900	900	0
1/8/2025 16:07	40302	TAMA_T3	6	4	-2	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
1/8/2025 16:11	45801	HEGI_T1	0	0	0	0	0	0	-0.83	-0.81	1	1	0	900	900	0
1/8/2025 16:22	66903	SHIL_T2	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
1/8/2025 16:22	66901	SHIL_T2	57	44	-13	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
1/8/2025 16:22	66902	SHIL_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 16:42	42701	AUGU_T1	2	10	8	1.1	0.4	-0.7	0	0	2	2	0	1800	1800	0
1/8/2025 16:45	45501	DERR_T2	1	8	7	0.4	0.4	0	0	0	0	0	0	0	0	0
1/8/2025 16:45	45502	DERR_T2	0	31	31	0	0.48	0.48	-0.54	-0.52	0	0	0	0	0	0
1/8/2025 18:43	23401	HONE_T2	124	81	-43	0.67	0.49	-0.18	0.33	0.24	0	0	0	0	0	0
1/8/2025 18:43	23402	HONE_T2	3	6	3	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/8/2025 18:45	26401	INOR_T1	75	176	101	0.62	0.65	0.03	0	0	0	0	0	0	0	0
1/8/2025 18:45	26402	INOR_T1	0	0	0	0	0	0	-1.56	-1.53	2	2	0	1200	1200	0
1/8/2025 18:45	66901	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 18:46	26703	HEML_T1	15	13	-2	0.57	0.48	-0.09	-0.46	-0.49	1	1	0	600	600	0
1/8/2025 18:46	26701	HEML_T1	18	29	11	0.66	0.65	-0.01	0	0	0	0	0	0	0	0
1/8/2025 18:50	11502	FREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 18:50	11504	FREE_T1	9	9	0	0.51	0.28	-0.23	-2.07	-2.09	2	2	0	2100	2100	0
1/8/2025 18:50	26704	HEML_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
1/8/2025 18:52	21705	SUBU_T1	2	5	3	7.2	3.6	-3.6	0	0	0	0	0	0	0	0
1/8/2025 18:52	22002	BOHE_T1	0	0	0	0	0	0	0.51	0.54	0	0	0	0	0	0
1/8/2025 18:52	21701	SUBU_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
1/8/2025 18:52	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/8/2025 18:52	27604	PIRI_T1	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
1/8/2025 18:53	26401	INOR_T1	75	176	101	0.62	0.65	0.03	0	0	0	0	0	0	0	0
1/8/2025 18:53	20802	LOPO_T1	8	9	1	0.61	0.71	0.1	-0.81	-0.8	1	1	0	600	600	0
1/8/2025 18:53	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 18:53	50505	MECH_T1	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
1/8/2025 18:53	65503	MOJO_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
1/8/2025 18:53	20801	LOPO_T1	32	33	1	0.64	0.61	-0.03	0	0	0	0	0	0	0	0
1/8/2025 18:53	54506	ENOL_T2	0	0	0	0	0	0	0.41	0.4	1	1	0	600	600	0
1/8/2025 18:53	50502	MECH_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
1/8/2025 18:53	26402	INOR_T1	0	0	0	0	0	0	-1.53	-1.56	2	2	0	1200	1200	0
1/8/2025 18:54	42501	ALTA_T2	0	0	0	0	0	0	0.12	0.1	1	1	0	600	600	0
1/8/2025 18:54	16301	ALPA_T1	1	1	0	0.7	0	-0.7	0.33	0.32	0	0	0	0	0	0
1/8/2025 18:54	22402	MORG_T2	17	17	0	2.01	1.91	-0.1	0	0	0	0	0	0	0	0
1/8/2025 18:54	10805	CHHI_T2	13	13	0	3.12	3.19	0.07	-0.97	-0.75	1	1	0	600	600	0
1/8/2025 18:54	22405	MORG_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/8/2025 18:54	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/8/2025 18:55	15603	NSTR_T2	2	3	1	0.4	1.1	0.7	-0.87	-0.83	0	0	0	0	0	0
1/8/2025 18:55	62606	ENGL_T1	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
1/8/2025 18:55	20601	GRWO_T2	24	27	3	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
1/8/2025 18:55	15601	NSTR_T2	35	81	46	0.63	0.58	-0.05	0	0	0	0	0	0	0	0
1/8/2025 18:55	20603	GRWO_T2	4	6	2	0.15	0.12	-0.03	-0.38	-0.37	1	1	0	900	900	0
1/8/2025 18:55	15602	NSTR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 18:55	66903	SHIL_T2	0	0	0	0	0	0	-1.19	-1.21	0	0	0	0	0	0
1/8/2025 18:55	62605	ENGL_T1	0	0	0	0	0	0	-1.12	-1.1	0	0	0	0	0	0
1/8/2025 18:55	66902	SHIL_T2	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
1/8/2025 18:55	29402	BELT_T1	16	15	-1	0.56	0.56	0	0	0	0	0	0	0	0	0
1/8/2025 18:55	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/8/2025 18:56	13501	MCMI_T1	2	2	0	0.6	0.7	0.1	0.6	0.59	0	0	0	0	0	0
1/8/2025 18:56	66504	SMAN_T2	0	0	0	0	0	0	-2.87	-2.93	2	2	0	2400	2400	0
1/8/2025 18:56	15203	SFAR_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
1/8/2025 18:56	44702	MUNC_T2	3	4	1	0.17	0.25	0.08	0	0	0	0	0	0	0	0
1/8/2025 18:56	10805	CHHI_T2	13	13	0	3.12	3.19	0.07	-0.97	-0.75	1	1	0	600	600	0
1/8/2025 18:56	16302	ALPA_T2	0	0	0	0	0	0	-0.52	-0.48	0	0	0	0	0	0
1/8/2025 18:56	11101	EGYP_T1	1	1	0	1.3	1.1	-0.2	0.76	0.73	0	0	0	0	0	0
1/8/2025 18:56	66505	SMAN_T2	3	3	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
1/8/2025 18:56	46004	BERW_T2	27	33	6	0.74	0.78	0.04	0	0	0	0	0	0	0	0
1/8/2025 18:56	11904	ETEX_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/8/2025 18:56	44703	MUNC_T2	2	2	0	0.15	0	-0.15	0.62	0.57	0	0	0	0	0	0
1/8/2025 18:56	11901	ETEX_T2	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
1/8/2025 18:56	27502	WEIS_T2	32	24	-8	0.53	0.38	-0.15	-0.67	-0.7	0	0	0	0	0	0
1/8/2025 18:56	11104	EGYP_T1	8	6	-2	0.29	0.23	-0.06	0	0	0	0	0	0	0	0
1/8/2025 18:56	46002	BERW_T2	0	0	0	0	0	0	-0.87	-0.94	1	1	0	900	900	0
1/8/2025 18:56	11102	EGYP_T1	7	8	1	0.83	0.63	-0.2	0	0	0	0	0	0	0	0
1/8/2025 18:56	44701	MUNC_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 18:56	27503	WEIS_T2	3	1	-2	0.73	0	-0.73	0	0	0	0	0	0	0	0
1/8/2025 18:57	63401	HONY_T1	0	0	0	0	0	0	0.36	0.36	1	1	0	600	600	0
1/8/2025 18:57	43201	MVIL_T2	2	4	2	1.25	1.4	0.15	-0.28	-0.27	0	0	0	0	0	0
1/8/2025 18:57	55002	NEWP_T1	3	3	0	0.7	0.53	-0.17	-0.12	-0.1	0	0	0	0	0	0
1/8/2025 18:57	43202	MVIL_T2	2	0	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
1/8/2025 18:57	44901	SCOT_T2	27	30	3	0.17	0.16	-0.01	-0.05	0.11	0	0	0	0	0	0
1/8/2025 18:57	44902	SCOT_T2	531	530	-1	0.51	0.55	0.04	0	0	0	0	0	0	0	0
1/8/2025 18:57	64101	REFR_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
1/8/2025 18:57	50502	MECH_T1	1	1	0	0.8	0.6	-0.2	0.06	0.04	1	1	0	900	900	0
1/8/2025 18:57	17802	GILB_T1	1	0	-1	3	0	-3	0.41	0.41	0	0	0	0	0	0
1/8/2025 18:57	47101	MARL_T1	179	280	101	1.25	1.1	-0.15	0	0	0	0	0	0	0	0
1/8/2025 18:57	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 18:57	22601	KIMB_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/8/2025 18:57	50506	MECH_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
1/8/2025 18:57	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 18:57	47104	MARL_T1	0	0	0	0	0	0	-2.03	-2.03	0	0	0	0	0	0
1/8/2025 18:57	22602	KIMB_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
1/8/2025 18:57	41205	KENM_T2	0	0	0	0	0	0	-0.73	-0.73	1	1	0	600	600	0
1/8/2025 18:57	65703	RVIL_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
1/8/2025 18:58	17802	GILB_T1	1	0	-1	3	0	-3	0.41	0.41	0	0	0	0	0	0
1/8/2025 18:58	13606	RICH_T2	22	28	6	0.53	0.7	0.17	0	0	0	0	0	0	0	0
1/8/2025 18:58	44201	POIN_T1	37	41	4	0.19	0.16	-0.03	-2.26	-2.27	2	2	0	2100	2100	0
1/8/2025 18:58	11104	EGYP_T1	8	6	-2	0.29	0.23	-0.06	-0.16	-0.17	1	1	0	900	900	0
1/8/2025 18:58	13002	NBET_T2	0	0	0	0	0	0	-0.23	-0.2	1	1	0	1200	1200	0
1/8/2025 18:58	20201	JERM_T1	79	1	-78	0.25	0.1	-0.15	-0.44	1.63	2	0	-2	2400	0	-2400
1/8/2025 18:58	15203	SFAR_T2	1	1	0	0.9	0.7	-0.2	-0.43	-0.41	0	0	0	0	0	0
1/8/2025 18:58	24202	PROV_T4	0	0	0	0	0	0	-0.7	-0.74	1	1	0	1200	1200	0
1/8/2025 18:58	15103	UPHA_T2	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
1/8/2025 18:58	13001	NBET_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 18:58	16406	MOPO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 18:58	13601	RICH_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
1/8/2025 18:58	65004	NEFF_T2	0	0	0	0	0	0	-1	-0.97	1	1	0	600	600	0
1/8/2025 18:58	16401	MOPO_T1	9	18	9	1.01	0.87	-0.14	0	0	0	0	0	0	0	0
1/8/2025 18:58	15201	SFAR_T1	0	0	0	0	0	0	-0.75	-0.73	2	2	0	1800	1800	0
1/8/2025 18:58	16402	MOPO_T1	5	6	1	0.58	0.8	0.22	-0.67	-0.66	0	0	0	0	0	0
1/8/2025 18:58	11101	EGYP_T1	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
1/8/2025 18:58	11102	EGYP_T1	7	8	1	0.83	0.63	-0.2	0	0	0	0	0	0	0	0
1/8/2025 18:58	46004	BERW_T2	27	33	6	0.74	0.78	0.04	-0.21	-0.31	0	0	0	0	0	0
1/8/2025 18:58	50502	MECH_T1	1	1	0	0.8	0.6	-0.2	0.06	0.04	1	1	0	900	900	0
1/8/2025 18:58	13604	RICH_T2	0	0	0	0	0	0	-1.81	-1.82	2	2	0	1500	1500	0
1/8/2025 18:58	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 18:58	10805	CHHI_T2	13	13	0	3.12	3.19	0.07	-1.94	-1.49	2	2	0	1200	1200	0
1/8/2025 18:58	11301	EMMA_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
1/8/2025 18:59	50506	MECH_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
1/8/2025 18:59	51003	NHAR_T1	2	7	5	3.7	7.2	3.5	-2.04	-2.05	1	1	0	1200	1200	0
1/8/2025 18:59	16402	MOPO_T1	5	6	1	0.58	0.8	0.22	-0.67	-0.66	0	0	0	0	0	0
1/8/2025 18:59	54501	ENOL_T2	0	0	0	0	0	0	-0.44	-0.45	1	1	0	600	600	0
1/8/2025 18:59	63501	HEID_TBK1-2	11	11	0	0.34	0.32	-0.02	-0.35	-0.32	1	1	0	900	900	0
1/8/2025 18:59	44201	POIN_T1	37	41	4	0.19	0.16	-0.03	-2.26	-2.27	2	2	0	2100	2100	0
1/8/2025 18:59	51002	NHAR_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
1/8/2025 18:59	24102	EHAZ_T1	41	44	3	1.6	1.05	-0.55	-0.16	-0.24	0	0	0	0	0	0
1/8/2025 18:59	61306	EARL_T1	0	0	0	0	0	0	-1.26	-1.26	0	0	0	0	0	0
1/8/2025 18:59	65702	RVIL_T2	0	0	0	0	0	0	-1.39	-1.4	1	1	0	600	600	0
1/8/2025 18:59	54201	PENN_T1	3	3	0	0.8	1.13	0.33	-0.03	-0.06	0	0	0	0	0	0
1/8/2025 18:59	24103	EHAZ_T1	10	18	8	0.19	0.48	0.29	0	0	0	0	0	0	0	0
1/8/2025 18:59	51004	NHAR_T1	3	3	0	4.47	6.2	1.73	0	0	0	0	0	0	0	0
1/8/2025 18:59	61303	EARL_T1	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
1/8/2025 18:59	46002	BERW_T2	0	0	0	0	0	0	-0.87	-0.94	1	1	0	900	900	0
1/8/2025 18:59	24101	EHAZ_T1	61	98	37	1.63	1.58	-0.05	0	0	0	0	0	0	0	0
1/8/2025 18:59	53802	MBRG_T2	0	2	2	0	0.1	0.1	0.79	0.71	0	0	0	0	0	0
1/8/2025 18:59	16406	MOPO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 18:59	61103	BERK_T5	0	0	0	0	0	0	0.05	0.1	0	0	0	0	0	0
1/8/2025 18:59	22001	BOHE_T1	0	0	0	0	0	0	-0.18	-0.2	1	1	0	600	600	0
1/8/2025 18:59	46004	BERW_T2	27	33	6	0.74	0.78	0.04	0	0	0	0	0	0	0	0
1/8/2025 18:59	50502	MECH_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
1/8/2025 18:59	16401	MOPO_T1	9	18	9	1.01	0.87	-0.14	0	0	0	0	0	0	0	0
1/8/2025 18:59	54203	PENN_T1	18	18	0	0.51	0.39	-0.12	0	0	0	0	0	0	0	0
1/8/2025 18:59	24105	EHAZ_T1	16	25	9	2.77	3	0.23	0	0	0	0	0	0	0	0
1/8/2025 18:59	29402	BELT_T1	16	15	-1	0.56	0.56	0	0	0	0	0	0	0	0	0
1/8/2025 19:00	51002	NHAR_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
1/8/2025 19:00	13904	SEID_T1	23	40	17	0.5	0.64	0.14	0	0	0	0	0	0	0	0
1/8/2025 19:00	15204	SFAR_T2	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
1/8/2025 19:00	13903	SEID_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/8/2025 19:00	60201	ATGL_T2	4	6	2	0.13	0.37	0.24	0.25	0.08	0	0	0	0	0	0
1/8/2025 19:00	59202	THOM_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
1/8/2025 19:00	51004	NHAR_T1	3	2	-1	4.33	6.2	1.87	-0.48	-0.52	0	0	0	0	0	0
1/8/2025 19:00	15203	SFAR_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
1/8/2025 19:00	42201	SHEN_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
1/8/2025 19:00	64503	LAVI_T1	50	54	4	0.69	0.58	-0.11	-2.24	-2.27	1	1	0	1200	1200	0
1/8/2025 19:00	42504	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:00	66503	SMAN_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
1/8/2025 19:00	20403	ASHF_T2	0	9	9	0	0.42	0.42	0.77	0.8	0	0	0	0	0	0
1/8/2025 19:00	27502	WEIS_T2	20	18	-2	0.41	0.43	0.02	-0.67	-0.7	0	0	0	0	0	0
1/8/2025 19:00	20402	ASHF_T2	7	24	17	0.64	0.68	0.04	0	0	0	0	0	0	0	0
1/8/2025 19:00	20801	LOPO_T1	24	37	13	0.61	0.63	0.02	0	0	0	0	0	0	0	0
1/8/2025 19:00	13002	NBET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:00	10801	CHHI_T1	4	17	13	0.2	0.25	0.05	-1.81	-1.77	3	3	0	2100	2100	0
1/8/2025 19:00	16302	ALPA_T2	0	0	0	0	0	0	-1.05	-0.96	0	0	0	0	0	0
1/8/2025 19:00	64502	LAVI_T1	247	251	4	0.41	0.37	-0.04	0	0	0	0	0	0	0	0
1/8/2025 19:00	13503	MCMI_T2	1	8	7	0.2	0.8	0.6	-0.26	-0.29	0	0	0	0	0	0
1/8/2025 19:00	47203	FAXO_T2	1	1	0	0.6	0.5	-0.1	-1.67	-1.67	1	1	0	1200	1200	0
1/8/2025 19:00	53802	MBRG_T2	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
1/8/2025 19:00	64501	LAVI_T1	77	58	-19	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
1/8/2025 19:00	53802	MBRG_T2	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:00	27503	WEIS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:00	20802	LOPO_T1	7	12	5	0.96	0.77	-0.19	-0.81	-0.8	1	1	0	600	600	0
1/8/2025 19:00	65001	NEFF_T2	0	0	0	0	0	0	0.31	0.37	0	0	0	0	0	0
1/8/2025 19:00	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:00	20401	ASHF_T2	2	8	6	0.6	0.85	0.25	0	0	0	0	0	0	0	0
1/8/2025 19:00	51003	NHAR_T1	1	7	6	7.2	2.67	-4.53	0	0	0	0	0	0	0	0
1/8/2025 19:00	13704	SCHN_T2	0	1	1	0	0.1	0.1	-0.6	-0.6	0	0	0	0	0	0
1/8/2025 19:00	14203	EALL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:00	60801	BUCK_T1	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
1/8/2025 19:00	66505	SMAN_T2	3	3	0	0.6	1.03	0.43	0	0	0	0	0	0	0	0
1/8/2025 19:00	11104	EGYP_T1	6	4	-2	0.48	0.2	-0.28	-0.16	-0.17	1	1	0	900	900	0
1/8/2025 19:00	11102	EGYP_T1	7	8	1	0.64	0.48	-0.16	0	0	0	0	0	0	0	0
1/8/2025 19:00	42203	SHEN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/8/2025 19:00	16103	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:00	64802	MONE_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
1/8/2025 19:00	13001	NBET_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:00	16102	BING_T2	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:00	15201	SFAR_T1	0	0	0	0	0	0	-1.51	-1.47	4	4	0	3600	3600	0
1/8/2025 19:00	66903	SHIL_T2	0	0	0	0	0	0	-1.19	-1.21	0	0	0	0	0	0
1/8/2025 19:00	14201	EALL_T1	0	0	0	0	0	0	0.73	0.67	0	0	0	0	0	0
1/8/2025 19:00	60803	BUCK_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
1/8/2025 19:00	11101	EGYP_T1	1	1	0	1.1	2.2	1.1	0	0	0	0	0	0	0	0
1/8/2025 19:00	16101	BING_T2	0	1	1	0	0	0	0.73	0.69	0	0	0	0	0	0
1/8/2025 19:00	42501	ALTA_T2	0	0	0	0	0	0	0.23	0.21	2	2	0	1200	1200	0
1/8/2025 19:00	13902	SEID_T1	3	5	2	0.93	0.25	-0.68	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/8/2025 19:00	44601	SALE_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
1/8/2025 19:01	48301	ORWI_T1	2	2	0	5.3	5.1	-0.2	-0.79	-0.79	1	1	0	900	900	0
1/8/2025 19:01	46004	BERW_T2	32	19	-13	0.73	0.85	0.12	0	0	0	0	0	0	0	0
1/8/2025 19:01	27202	YATE_T2	0	0	0	0	0	0	-1.04	-0.83	1	1	0	900	900	0
1/8/2025 19:01	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:01	65001	NEFF_T2	0	0	0	0	0	0	0.31	0.37	0	0	0	0	0	0
1/8/2025 19:01	44902	SCOT_T2	527	469	-58	0.55	0.44	-0.11	0	0	0	0	0	0	0	0
1/8/2025 19:01	47001	HUGH_T2	3	3	0	6.23	6.2	-0.03	-1.31	-1.24	1	1	0	900	900	0
1/8/2025 19:01	46506	LOHA_T1	2	3	1	0.6	0.47	-0.13	0	0	0	0	0	0	0	0
1/8/2025 19:01	44703	MUNC_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:01	44702	MUNC_T2	1	5	4	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
1/8/2025 19:01	44502	HAMI_T2	3	2	-1	0.7	1.8	1.1	0.03	0.03	0	0	0	0	0	0
1/8/2025 19:01	55507	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:01	44901	SCOT_T2	29	3	-26	0.16	0.23	0.07	-0.05	0.11	0	0	0	0	0	0
1/8/2025 19:01	46501	LOHA_T1	84	89	5	0.82	0.75	-0.07	-1.12	-1.21	1	1	0	1200	1200	0
1/8/2025 19:01	20401	ASHF_T2	2	8	6	0.6	0.85	0.25	0	0	0	0	0	0	0	0
1/8/2025 19:01	46002	BERW_T2	0	0	0	0	0	0	-0.87	-0.94	1	1	0	900	900	0
1/8/2025 19:01	50502	MECH_T1	1	1	0	0.6	0.5	-0.1	0.06	0.04	1	1	0	900	900	0
1/8/2025 19:01	44905	SCOT_T1	38	43	5	0.63	0.39	-0.24	0	0	0	0	0	0	0	0
1/8/2025 19:01	44701	MUNC_T2	1	3	2	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/8/2025 19:01	44904	SCOT_T1	0	0	0	0	0	0	0.76	0.77	0	0	0	0	0	0
1/8/2025 19:01	47002	HUGH_T2	3	3	0	1	0.75	-0.25	0	0	0	0	0	0	0	0
1/8/2025 19:01	13503	MCMI_T2	1	8	7	0.2	0.8	0.6	-0.26	-0.29	0	0	0	0	0	0
1/8/2025 19:01	20403	ASHF_T2	0	9	9	0	0.42	0.42	0.77	0.8	0	0	0	0	0	0
1/8/2025 19:01	20402	ASHF_T2	7	24	17	0.64	0.68	0.04	0	0	0	0	0	0	0	0
1/8/2025 19:02	22601	KIMB_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
1/8/2025 19:02	51905	COPA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:02	13302	ORVI_T2	0	0	0	0	0	0	1.61	1.65	0	0	0	0	0	0
1/8/2025 19:02	16302	ALPA_T2	0	0	0	0	0	0	-0.52	-0.48	0	0	0	0	0	0
1/8/2025 19:02	15202	SFAR_T1	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
1/8/2025 19:02	13704	SCHN_T2	0	1	1	0	0.1	0.1	-0.6	-0.6	0	0	0	0	0	0
1/8/2025 19:02	11301	EMMA_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
1/8/2025 19:02	46001	BERW_T1	8	11	3	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:02	10805	CHHI_T2	13	14	1	3.35	3.22	-0.13	-0.97	-0.75	1	1	0	600	600	0
1/8/2025 19:02	55101	WERT_T1	0	0	0	0	0	0	-1.63	-1.7	2	2	0	1500	1500	0
1/8/2025 19:02	66505	SMAN_T2	3	3	0	0.6	1.03	0.43	0	0	0	0	0	0	0	0
1/8/2025 19:02	17401	FOHI_T1	0	0	0	0	0	0	-0.96	-0.95	0	0	0	0	0	0
1/8/2025 19:02	46004	BERW_T2	32	19	-13	0.73	0.85	0.12	0	0	0	0	0	0	0	0
1/8/2025 19:02	51902	COPA_T1	0	0	0	0	0	0	-1.64	-1.64	0	0	0	0	0	0
1/8/2025 19:02	60801	BUCK_T1	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
1/8/2025 19:02	46204	DANV_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:02	51002	NHAR_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
1/8/2025 19:02	13001	NBET_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:02	24801	VALM_T1	0	1	1	0	0	0	-0.26	-0.26	0	0	0	0	0	0
1/8/2025 19:02	15101	UPHA_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
1/8/2025 19:02	16301	ALPA_T1	0	1	1	0	0	0	0.33	0.32	0	0	0	0	0	0
1/8/2025 19:02	62102	ELAN_T1	0	0	0	0	0	0	0.95	1	0	0	0	0	0	0
1/8/2025 19:02	51004	NHAR_T1	3	2	-1	4.33	6.2	1.87	-0.48	-0.52	0	0	0	0	0	0
1/8/2025 19:02	60803	BUCK_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
1/8/2025 19:02	13002	NBET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:02	49803	UNIV_T1	2	10	8	3.7	6.9	3.2	-0.78	-0.79	0	0	0	0	0	0
1/8/2025 19:02	61303	EARL_T1	1	1	0	1.2	0.9	-0.3	0.48	0.42	0	0	0	0	0	0
1/8/2025 19:02	54203	PENN_T1	18	18	0	0.39	0.34	-0.05	0.06	0.05	0	0	0	0	0	0
1/8/2025 19:02	44201	POIN_T1	22	41	19	0.15	0.16	0.01	-2.26	-2.27	2	2	0	2100	2100	0
1/8/2025 19:02	64101	REFR_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
1/8/2025 19:02	44502	HAMI_T2	3	2	-1	0.7	1.8	1.1	0.03	0.03	0	0	0	0	0	0
1/8/2025 19:02	41801	GOCI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:02	14604	SWHI_T1	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
1/8/2025 19:02	46002	BERW_T2	0	0	0	0	0	0	-1.74	-1.88	2	2	0	1800	1800	0
1/8/2025 19:02	64301	LINC_T1	0	0	0	0	0	0	0.08	0.13	0	0	0	0	0	0
1/8/2025 19:02	42501	ALTA_T2	0	0	0	0	0	0	0.23	0.21	2	2	0	1200	1200	0
1/8/2025 19:02	66903	SHIL_T2	0	0	0	0	0	0	-2.38	-2.41	0	0	0	0	0	0
1/8/2025 19:02	66504	SMAN_T2	0	0	0	0	0	0	-1.43	-1.46	1	1	0	1200	1200	0
1/8/2025 19:02	42701	AUGU_T1	21	20	-1	0.63	0.64	0.01	0	0	0	0	0	0	0	0
1/8/2025 19:02	49804	UNIV_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:02	22602	KIMB_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
1/8/2025 19:02	15203	SFAR_T2	1	1	0	0.7	0.9	0.2	-0.43	-0.41	0	0	0	0	0	0
1/8/2025 19:02	47901	HRDG_T1	0	0	0	0	0	0	0.57	0.72	0	0	0	0	0	0
1/8/2025 19:02	46203	DANV_T2	9	14	5	0.84	0.7	-0.14	0	0	0	0	0	0	0	0
1/8/2025 19:02	54201	PENN_T1	3	3	0	1.07	1.07	0	0	0	0	0	0	0	0	0
1/8/2025 19:02	51003	NHAR_T1	1	7	6	7.2	2.67	-4.53	0	0	0	0	0	0	0	0
1/8/2025 19:02	46005	BERW_T1	0	0	0	0	0	0	-1.74	-1.71	2	2	0	2100	2100	0
1/8/2025 19:02	51906	COPA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:02	48602	POCA_T1	0	0	0	0	0	0	0.75	0.86	2	2	0	2400	2400	0
1/8/2025 19:02	13701	SCHN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:02	46206	DANV_T2	0	3	3	0	0.1	0.1	1.7	1.65	2	2	0	2100	2100	0
1/8/2025 19:02	63501	HEID_TBK1-2	11	12	1	0.32	0.29	-0.03	0	0	0	0	0	0	0	0
1/8/2025 19:02	42504	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:03	48902	FOSP_T2	2	1	-1	0.2	0.1	-0.1	0.21	0.3	0	0	0	0	0	0
1/8/2025 19:03	58102	NEKI_T1	0	0	0	0	0	0	0.53	0.4	0	0	0	0	0	0
1/8/2025 19:03	51002	NHAR_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
1/8/2025 19:03	64503	LAVI_T1	50	54	4	0.69	0.58	-0.11	-2.24	-2.27	1	1	0	1200	1200	0
1/8/2025 19:03	13503	MCMI_T2	1	8	7	0.2	0.8	0.6	-0.26	-0.29	0	0	0	0	0	0
1/8/2025 19:03	63804	HEMP_T1	9	2	-7	2.19	6.9	4.71	0	0	0	0	0	0	0	0
1/8/2025 19:03	27502	WEIS_T2	20	18	-2	0.41	0.43	0.02	-0.67	-0.7	0	0	0	0	0	0
1/8/2025 19:03	43304	WATS_T2	24	27	3	0.88	0.68	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:03	51004	NHAR_T1	3	2	-1	4.33	6.2	1.87	0	0	0	0	0	0	0	0
1/8/2025 19:03	45502	DERR_T2	8	14	6	0.73	0.77	0.04	0	0	0	0	0	0	0	0
1/8/2025 19:03	57702	PAXT_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
1/8/2025 19:03	60701	BREC_T1	10	4	-6	0.14	0.13	-0.01	-0.89	-0.87	2	2	0	1200	1200	0
1/8/2025 19:03	66103	REAM_T2	0	0	0	0	0	0	0.51	0.41	1	1	0	1200	1200	0
1/8/2025 19:03	60404	DILL_T2	1	0	-1	0.1	0	-0.1	-0.35	-0.34	1	1	0	1200	1200	0
1/8/2025 19:03	63802	HEMP_T1	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
1/8/2025 19:03	48901	FOSP_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
1/8/2025 19:03	41602	CLEV_T1	4	37	33	0.43	0.4	-0.03	0	0	1	1	0	600	600	0
1/8/2025 19:03	51003	NHAR_T1	1	7	6	7.2	2.67	-4.53	0	0	0	0	0	0	0	0
1/8/2025 19:03	46004	BERW_T2	32	19	-13	0.73	0.85	0.12	-0.21	-0.31	0	0	0	0	0	0
1/8/2025 19:03	65502	MOJO_T2	0	0	0	0	0	0	-1.83	-1.79	1	1	0	900	900	0
1/8/2025 19:03	45501	DERR_T2	19	36	17	0.55	0.56	0.01	0.59	0.53	2	2	0	1800	1800	0
1/8/2025 19:03	65702	RVIL_T2	0	0	0	0	0	0	-1.39	-1.4	1	1	0	600	600	0
1/8/2025 19:03	44801	EDAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:03	64101	REFR_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
1/8/2025 19:03	44802	EDAN_T2	0	0	0	0	0	0	-5.97	-6	0	0	0	0	0	0
1/8/2025 19:03	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:03	27503	WEIS_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:03	64501	LAVI_T1	77	58	-19	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
1/8/2025 19:03	44301	BEAV_T2	15	13	-2	1.57	1.98	0.41	-0.29	0.05	1	1	0	600	600	0
1/8/2025 19:03	64502	LAVI_T1	247	251	4	0.41	0.37	-0.04	0	0	0	0	0	0	0	0
1/8/2025 19:04	13501	MCMI_T1	1	2	1	1.4	0.6	-0.8	0	0	0	0	0	0	0	0
1/8/2025 19:04	53602	DALM_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:04	41902	REED_T1	69	91	22	0.6	0.52	-0.08	0.49	0.46	1	1	0	900	900	0
1/8/2025 19:04	46401	FLEM_T2	1	3	2	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/8/2025 19:04	14401	SSLA_T1	0	3	3	0	0.27	0.27	-1.47	-1.43	2	2	0	1800	1800	0
1/8/2025 19:04	12803	MICK_T1	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
1/8/2025 19:04	12802	MICK_T1	0	0	0	0	0	0	-1.1	-1.12	0	0	0	0	0	0
1/8/2025 19:04	61102	BERK_T5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:04	55002	NEWP_T1	3	2	-1	0.53	0.25	-0.28	-0.12	-0.1	0	0	0	0	0	0
1/8/2025 19:04	16302	ALPA_T2	0	0	0	0	0	0	-0.52	-0.48	0	0	0	0	0	0
1/8/2025 19:04	46206	DANV_T2	0	3	3	0	0.1	0.1	1.7	1.65	2	2	0	2100	2100	0
1/8/2025 19:04	42401	GIMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:04	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:04	27604	PIRI_T1	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
1/8/2025 19:04	51002	NHAR_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
1/8/2025 19:04	14402	SSLA_T1	5	13	8	0.28	0.45	0.17	0	0	0	0	0	0	0	0
1/8/2025 19:04	66901	SHIL_T2	0	0	0	0	0	0	-1.56	-1.61	1	1	0	1200	1200	0
1/8/2025 19:04	66505	SMAN_T2	3	3	0	0.6	1.03	0.43	0	0	0	0	0	0	0	0
1/8/2025 19:04	55001	NEWP_T1	0	7	7	0	1	1	0	0	0	0	0	0	0	0
1/8/2025 19:04	63401	HONY_T1	0	0	0	0	0	0	0.36	0.36	1	1	0	600	600	0
1/8/2025 19:04	11901	ETEX_T2	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
1/8/2025 19:04	15203	SFAR_T2	1	1	0	0.7	0.9	0.2	-1.73	-1.64	0	0	0	0	0	0
1/8/2025 19:04	42504	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:04	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:04	42201	SHEN_T2	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
1/8/2025 19:04	51003	NHAR_T1	1	7	6	7.2	2.67	-4.53	0	0	0	0	0	0	0	0
1/8/2025 19:04	45801	HEGI_T1	0	0	0	0	0	0	-0.78	-0.78	1	1	0	900	900	0
1/8/2025 19:04	46402	FLEM_T2	2	4	2	0.55	0	-0.55	0	0	2	2	0	1800	1800	0
1/8/2025 19:04	14204	EALL_T2	0	1	1	0	0	0	0.26	0.27	0	0	0	0	0	0
1/8/2025 19:04	41901	REED_T1	7	8	1	0.64	0.6	-0.04	0	0	0	0	0	0	0	0
1/8/2025 19:04	11904	ETEX_T2	2	1	-1	0.75	0	-0.75	-0.67	-0.66	0	0	0	0	0	0
1/8/2025 19:04	46203	DANV_T2	9	14	5	0.84	0.7	-0.14	0	0	0	0	0	0	0	0
1/8/2025 19:04	10805	CHHI_T2	13	14	1	3.35	3.22	-0.13	-0.97	-0.75	1	1	0	600	600	0
1/8/2025 19:04	42203	SHEN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/8/2025 19:04	48602	POCA_T1	0	0	0	0	0	0	0.38	0.43	1	1	0	1200	1200	0
1/8/2025 19:04	15101	UPHA_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
1/8/2025 19:04	46204	DANV_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:04	10801	CHHI_T1	4	17	13	0.2	0.25	0.05	-1.81	-1.77	3	3	0	2100	2100	0
1/8/2025 19:04	51004	NHAR_T1	3	2	-1	4.33	6.2	1.87	0	0	0	0	0	0	0	0
1/8/2025 19:04	11302	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:04	55508	HERS_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
1/8/2025 19:04	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:04	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:04	44201	POIN_T1	22	41	19	0.15	0.16	0.01	-4.51	-4.54	4	4	0	4200	4200	0
1/8/2025 19:04	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:04	13704	SCHN_T2	0	1	1	0	0.1	0.1	-0.6	-0.6	0	0	0	0	0	0
1/8/2025 19:04	14403	SSLA_T1	12	13	1	0.6	0.83	0.23	0	0	0	0	0	0	0	0
1/8/2025 19:04	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:04	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:04	53601	DALM_T2	0	0	0	0	0	0	-0.93	-0.97	1	1	0	900	900	0
1/8/2025 19:04	42501	ALTA_T2	0	0	0	0	0	0	0.12	0.1	1	1	0	600	600	0
1/8/2025 19:04	43304	WATS_T2	24	27	3	0.88	0.68	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:04	41204	KENM_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
1/8/2025 19:05	41901	REED_T1	7	8	1	0.64	0.6	-0.04	0	0	0	0	0	0	0	0
1/8/2025 19:05	24104	EHAZ_T1	0	0	0	0	0	0	-0.8	-0.78	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/8/2025 19:05	59101	WALK_T2	0	0	0	0	0	0	1.16	1.18	1	1	0	600	600	0
1/8/2025 19:05	24105	EHAZ_T1	23	25	2	3	2.13	-0.87	0	0	0	0	0	0	0	0
1/8/2025 19:05	67501	WEWI_T1	0	0	0	0	0	0	-0.99	-0.89	1	1	0	600	600	0
1/8/2025 19:05	55101	WERT_T1	0	0	0	0	0	0	-1.63	-1.7	2	2	0	1500	1500	0
1/8/2025 19:05	40302	TAMA_T3	5	11	6	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
1/8/2025 19:05	43801	SWIL_T1	2	2	0	2.95	2.95	0	0	0	0	0	0	0	0	0
1/8/2025 19:05	22405	MORG_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:05	55001	NEWP_T1	0	7	7	0	1	1	0	0	0	0	0	0	0	0
1/8/2025 19:05	43802	SWIL_T1	0	0	0	0	0	0	-0.01	-0.04	1	1	0	600	600	0
1/8/2025 19:05	44701	MUNC_T2	1	3	2	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/8/2025 19:05	40702	FFLD_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
1/8/2025 19:05	65802	RTWN_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
1/8/2025 19:05	44702	MUNC_T2	1	5	4	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
1/8/2025 19:05	46206	DANV_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/8/2025 19:05	48901	FOSP_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
1/8/2025 19:05	42503	ALTA_T2	0	0	0	0	0	0	-0.53	-0.5	0	0	0	0	0	0
1/8/2025 19:05	61103	BERK_T5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:05	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:05	41902	REED_T1	69	91	22	0.6	0.52	-0.08	0	0	0	0	0	0	0	0
1/8/2025 19:05	44703	MUNC_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:05	40701	FFLD_T1	2	9	7	0.1	0.14	0.04	0	0	0	0	0	0	0	0
1/8/2025 19:05	46506	LOHA_T1	2	3	1	0.6	0.47	-0.13	0	0	0	0	0	0	0	0
1/8/2025 19:05	52004	LING_T2	2	2	0	5	5	0	0.19	0.17	0	0	0	0	0	0
1/8/2025 19:05	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:05	22402	MORG_T2	17	17	0	1.87	2.06	0.19	0	0	0	0	0	0	0	0
1/8/2025 19:05	61701	ELIZ_T1	2	2	0	2.2	2.5	0.3	0	0	0	0	0	0	0	0
1/8/2025 19:05	24101	EHAZ_T1	88	91	3	1.43	1.41	-0.02	0	0	0	0	0	0	0	0
1/8/2025 19:05	24102	EHAZ_T1	40	43	3	1.49	1	-0.49	0	0	0	0	0	0	0	0
1/8/2025 19:05	46204	DANV_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:05	61303	EARL_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
1/8/2025 19:05	46203	DANV_T2	9	14	5	0.84	0.7	-0.14	-1.06	-1.12	0	0	0	0	0	0
1/8/2025 19:05	24103	EHAZ_T1	14	18	4	0.48	1.26	0.78	0	0	0	0	0	0	0	0
1/8/2025 19:05	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:05	55002	NEWP_T1	3	2	-1	0.53	0.25	-0.28	-0.12	-0.1	0	0	0	0	0	0
1/8/2025 19:05	42504	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:05	46501	LOHA_T1	84	89	5	0.82	0.75	-0.07	-1.12	-1.21	1	1	0	1200	1200	0
1/8/2025 19:05	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:05	48902	FOSP_T2	2	1	-1	0.2	0.1	-0.1	0.21	0.3	0	0	0	0	0	0
1/8/2025 19:05	61703	ELIZ_T1	0	0	0	0	0	0	-5.23	-5.2	4	4	0	4200	4200	0
1/8/2025 19:05	44502	HAMI_T2	3	2	-1	0.7	1.8	1.1	0.03	0.03	0	0	0	0	0	0
1/8/2025 19:06	13001	NBET_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:06	54601	SUMM_T2	0	0	0	0	0	0	-3.05	-3.12	4	4	0	4200	4200	0
1/8/2025 19:06	43202	MVIL_T2	0	0	0	0	0	0	-0.56	-0.53	0	0	0	0	0	0
1/8/2025 19:06	43304	WATS_T2	24	27	3	0.88	0.68	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:06	44703	MUNC_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:06	15203	SFAR_T2	1	1	0	0.7	0.9	0.2	-0.41	-0.42	0	0	0	0	0	0
1/8/2025 19:06	42203	SHEN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/8/2025 19:06	13702	SCHN_T1	6	3	-3	0.22	0.43	0.21	-0.34	-0.31	0	0	0	0	0	0
1/8/2025 19:06	64502	LAVI_T1	247	251	4	0.41	0.37	-0.04	0	0	0	0	0	0	0	0
1/8/2025 19:06	20603	GRWO_T2	5	4	-1	0.12	0.13	0.01	-0.38	-0.37	1	1	0	900	900	0
1/8/2025 19:06	10801	OHHI_T1	4	17	13	0.2	0.25	0.05	-1.77	-1.77	3	3	0	2100	2100	0
1/8/2025 19:06	48902	FOSP_T2	2	1	-1	0.2	0.1	-0.1	0.21	0.3	0	0	0	0	0	0
1/8/2025 19:06	12802	MICK_T1	0	0	0	0	0	0	-1.12	-1.12	0	0	0	0	0	0
1/8/2025 19:06	63501	HEID_TBK1-2	11	12	1	0.32	0.29	-0.03	-0.35	-0.32	1	1	0	900	900	0
1/8/2025 19:06	41901	REED_T1	7	8	1	0.64	0.6	-0.04	0	0	0	0	0	0	0	0
1/8/2025 19:06	60803	BUCK_T1	0	3	3	0	0.13	0.13	-0.43	-0.44	1	1	0	600	600	0
1/8/2025 19:06	64501	LAVI_T1	77	58	-19	0.28	0.27	-0.01	-0.37	-0.35	0	0	0	0	0	0
1/8/2025 19:06	45501	DERR_T2	19	36	17	0.55	0.56	0.01	1.19	1.06	4	4	0	3600	3600	0
1/8/2025 19:06	64101	REFR_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
1/8/2025 19:06	65702	RVIL_T2	0	0	0	0	0	0	-1.39	-1.4	1	1	0	600	600	0
1/8/2025 19:06	52504	PROG_T1	13	8	-5	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
1/8/2025 19:06	13002	NBET_T2	0	0	0	0	0	0	-0.2	-0.2	1	1	0	1200	1200	0
1/8/2025 19:06	42201	SHEN_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
1/8/2025 19:06	50502	MECH_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:06	41902	REED_T1	69	91	22	0.6	0.52	-0.08	0.49	0.46	1	1	0	900	900	0
1/8/2025 19:06	53803	MBRG_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
1/8/2025 19:06	45502	DERR_T2	8	14	6	0.73	0.77	0.04	0	0	0	0	0	0	0	0
1/8/2025 19:06	53802	MBRG_T2	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:06	20601	GRWO_T2	21	30	9	0.65	0.62	-0.03	0	0	0	0	0	0	0	0
1/8/2025 19:06	44201	POIN_T1	22	41	19	0.15	0.16	0.01	-2.26	-2.27	2	2	0	2100	2100	0
1/8/2025 19:06	11904	ETEX_T2	2	1	-1	0.75	0	-0.75	0	0	0	0	0	0	0	0
1/8/2025 19:06	46401	FLEM_T2	1	3	2	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/8/2025 19:06	12803	MICK_T1	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
1/8/2025 19:06	44701	MUNC_T2	1	3	2	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/8/2025 19:06	16103	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:06	44702	MUNC_T2	1	5	4	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
1/8/2025 19:06	43201	MVIL_T2	1	4	3	1.8	0.8	-1	0	0	0	0	0	0	0	0
1/8/2025 19:06	53501	EVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:06	52501	PROG_T1	238	231	-7	0.3	0.33	0.03	-0.68	-0.69	1	1	0	300	300	0
1/8/2025 19:06	65802	RTWN_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
1/8/2025 19:06	22803	HAUT_T2	88	113	25	1.38	1.12	-0.26	0	0	0	0	0	0	0	0
1/8/2025 19:06	48901	FOSP_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
1/8/2025 19:06	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:06	22805	HAUT_T2	80	115	35	1.25	1.19	-0.06	-1.14	-1.11	1	1	0	1200	1200	0
1/8/2025 19:06	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:06	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:06	23902	EFMO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/8/2025 19:06	46402	FLEM_T2	2	4	2	0.55	0	-0.55	0	0	2	2	0	1800	1800	0
1/8/2025 19:06	16102	BING_T2	1	1	0	6	5.8	-0.2	-1.29	-1.29	1	1	0	1200	1200	0
1/8/2025 19:06	64503	LAVI_T1	50	54	4	0.69	0.58	-0.11	0	0	0	0	0	0	0	0
1/8/2025 19:06	53502	EVIL_T2	12	11	-1	2.41	1.51	-0.9	0	0	0	0	0	0	0	0
1/8/2025 19:06	23901	EFMO_T2	0	1	1	0	0	0	-0.96	-0.93	0	0	0	0	0	0
1/8/2025 19:07	48901	FOSP_T2	2	0	-2	0.15	0	-0.15	-0.35	-0.32	1	1	0	600	600	0
1/8/2025 19:07	60502	NMAN_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
1/8/2025 19:07	60803	BUCK_T1	0	3	3	0	0.13	0.13	-0.88	-0.86	2	2	0	1200	1200	0
1/8/2025 19:07	64501	LAVI_T1	77	58	-19	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
1/8/2025 19:07	53803	MBRG_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
1/8/2025 19:07	61103	BERK_T5	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
1/8/2025 19:07	64503	LAVI_T1	50	54	4	0.69	0.58	-0.11	-2.27	-2.19	1	1	0	1200	1200	0
1/8/2025 19:07	65004	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:07	48602	POCA_T1	0	0	0	0	0	0	0.43	0.42	1	1	0	1200	1200	0
1/8/2025 19:07	64502	LAVI_T1	247	251	4	0.41	0.37	-0.04	0	0	0	0	0	0	0	0
1/8/2025 19:07	53802	MBRG_T2	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:07	66902	SHIL_T2	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
1/8/2025 19:07	43304	WATS_T2	24	27	3	0.88	0.68	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:07	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:07	52502	PROG_T2	0	0	0	0	0	0	-0.19	-0.23	1	1	0	900	900	0
1/8/2025 19:07	42701	AUGU_T1	21	20	-1	0.63	0.64	0.01	0	0	2	2	0	1800	1800	0
1/8/2025 19:07	63401	HONY_T1	0	0	0	0	0	0	0.36	0.23	1	1	0	600	600	0
1/8/2025 19:07	48902	FOSP_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:07	51204	MTON_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
1/8/2025 19:07	66901	SHIL_T2	0	0	0	0	0	0	-1.61	-1.58	1	1	0	1200	1200	0
1/8/2025 19:08	60201	ATGL_T2	4	6	2	0.13	0.37	0.24	0.08	0.15	0	0	0	0	0	0
1/8/2025 19:08	52102	MEIS_T1	1	0	-1	1.6	0	-1.6	0	0	1	1	0	450	450	0
1/8/2025 19:08	63801	HEMP_T1	0	0	0	0	0	0	-0.11	0.55	0	0	0	0	0	0
1/8/2025 19:08	64202	KINZ_T1	0	1	1	0	0.4	0.4	0.84	0.91	0	0	0	0	0	0
1/8/2025 19:08	64204	KINZ_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:08	62606	ENGL_T1	0	0	0	0	0	0	-1.37	-1.35	1	1	0	900	900	0
1/8/2025 19:08	40603	PIGR_T1	6	37	31	0.38	0.56	0.18	0	0	0	0	0	0	0	0
1/8/2025 19:08	20401	ASHF_T2	2	8	6	0.6	0.85	0.25	0	0	0	0	0	0	0	0
1/8/2025 19:08	43304	WATS_T2	24	27	3	0.88	0.68	-0.2	0.23	0.23	1	1	0	600	600	0
1/8/2025 19:08	12502	MITR_T2	14	17	3	1.04	1.54	0.5	0	0	0	0	0	0	0	0
1/8/2025 19:08	64501	LAVI_T1	77	58	-19	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
1/8/2025 19:08	45502	DERR_T2	8	14	6	0.73	0.77	0.04	0	0	0	0	0	0	0	0
1/8/2025 19:08	11104	EGYP_T1	6	4	-2	0.48	0.2	-0.28	-0.17	-0.15	1	1	0	900	900	0
1/8/2025 19:08	52402	GRPA_T2	8	9	1	0.51	0.33	-0.18	0	0	0	0	0	0	0	0
1/8/2025 19:08	50505	MECH_T1	0	0	0	0	0	0	-0.79	-0.74	0	0	0	0	0	0
1/8/2025 19:08	11102	EGYP_T1	7	8	1	0.64	0.48	-0.16	0	0	0	0	0	0	0	0
1/8/2025 19:08	64101	REFR_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
1/8/2025 19:08	61103	BERK_T5	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
1/8/2025 19:08	14401	SSLA_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
1/8/2025 19:08	64203	KINZ_T1	8	6	-2	1.01	0.7	-0.31	0	0	0	0	0	0	0	0
1/8/2025 19:08	52403	GRPA_T2	4	13	9	0.38	0.2	-0.18	0.04	0.01	0	0	0	0	0	0
1/8/2025 19:08	64502	LAVI_T1	247	251	4	0.41	0.37	-0.04	0	0	0	0	0	0	0	0
1/8/2025 19:08	14402	SSLA_T1	5	13	8	0.28	0.45	0.17	0	0	0	0	0	0	0	0
1/8/2025 19:08	64503	LAVI_T1	50	54	4	0.69	0.58	-0.11	-2.27	-2.19	1	1	0	1200	1200	0
1/8/2025 19:08	13704	SCHN_T2	0	1	1	0	0.1	0.1	-1.2	-1.16	0	0	0	0	0	0
1/8/2025 19:08	50502	MECH_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:08	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:08	11101	EGYP_T1	1	1	0	1.1	2.2	1.1	0	0	0	0	0	0	0	0
1/8/2025 19:08	12505	MITR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:08	44902	SCOT_T2	527	469	-58	0.55	0.44	-0.11	-0.85	-0.83	0	0	0	0	0	0
1/8/2025 19:08	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:08	63804	HEMP_T1	9	2	-7	2.19	6.9	4.71	0	0	0	0	0	0	0	0
1/8/2025 19:08	20402	ASHF_T2	7	24	17	0.64	0.68	0.04	0	0	0	0	0	0	0	0
1/8/2025 19:08	42701	AUGU_T1	21	20	-1	0.63	0.64	0.01	0	0	2	2	0	1800	1800	0
1/8/2025 19:08	53802	MBRG_T2	2	1	-1	0.2	0	-0.2	0.71	0.8	0	0	0	0	0	0
1/8/2025 19:08	48302	ORWI_T2	2	2	0	0.7	0.5	-0.2	-0.5	-0.48	0	0	0	0	0	0
1/8/2025 19:08	44901	SCOT_T2	29	3	-26	0.16	0.23	0.07	0	0	0	0	0	0	0	0
1/8/2025 19:08	46102	MACI_T1	0	1	1	0	0	0	0.74	0.74	0	0	0	0	0	0
1/8/2025 19:08	42504	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:08	20403	ASHF_T2	0	9	9	0	0.42	0.42	0.8	0.78	0	0	0	0	0	0
1/8/2025 19:08	55508	HERS_T2	2	2	0	1	1	0	0	0	1	1	0	1200	1200	0
1/8/2025 19:08	42501	ALTA_T2	0	0	0	0	0	0	0.1	0.17	1	1	0	600	600	0
1/8/2025 19:08	52401	GRPA_T2	70	67	-3	0.88	0.43	-0.45	0	0	0	0	0	0	0	0
1/8/2025 19:08	14403	SSLA_T1	12	13	1	0.6	0.83	0.23	1.13	1.17	0	0	0	0	0	0
1/8/2025 19:08	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:08	45501	DERR_T2	19	36	17	0.55	0.56	0.01	0.53	0.48	2	2	0	1800	1800	0
1/8/2025 19:08	64301	LINC_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
1/8/2025 19:08	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:09	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:09	50502	MECH_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:09	46204	DANV_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/8/2025 19:09	58401	MORO_T1	1	3	2	1.7	0	-1.7	0	0	0	0	0	0	0	0
1/8/2025 19:09	44701	MUNC_T2	1	3	2	0.3	0	-0.3	-1.06	-1.04	0	0	0	0	0	0
1/8/2025 19:09	67402	WAKE_T2	0	0	0	0	0	0	-0.25	-0.23	1	1	0	600	600	0
1/8/2025 19:09	44801	EDAN_T2	0	2	2	0	0	0	-0.28	-0.24	0	0	0	0	0	0
1/8/2025 19:09	54603	SUMM_T2	0	0	0	0	0	0	-0.28	-0.3	1	1	0	900	900	0
1/8/2025 19:09	46206	DANV_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/8/2025 19:09	44301	BEAV_T2	15	13	-2	1.57	1.98	0.41	0.05	0.03	1	1	0	600	600	0
1/8/2025 19:09	52401	GRPA_T2	70	67	-3	0.88	0.43	-0.45	0	0	0	0	0	0	0	0
1/8/2025 19:09	52403	GRPA_T2	4	13	9	0.38	0.2	-0.18	0	0	0	0	0	0	0	0
1/8/2025 19:09	66903	SHIL_T2	0	0	0	0	0	0	-2.41	-2.28	0	0	0	0	0	0
1/8/2025 19:09	44703	MUNC_T2	0	3	3	0	0	0	0.57	0.6	0	0	0	0	0	0
1/8/2025 19:09	44702	MUNC_T2	1	5	4	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
1/8/2025 19:09	58402	MORO_T1	1	0	-1	0.1	0	-0.1	-0.57	-0.55	4	4	0	2850	2850	0
1/8/2025 19:09	60502	NMAN_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
1/8/2025 19:09	58202	NEWV_T1	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
1/8/2025 19:09	43304	WATS_T2	24	27	3	0.88	0.68	-0.2	0.23	0.23	1	1	0	600	600	0
1/8/2025 19:09	62605	ENGL_T1	0	0	0	0	0	0	-1.1	-1.12	0	0	0	0	0	0
1/8/2025 19:09	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:09	46203	DANV_T2	9	14	5	0.84	0.7	-0.14	-1.12	-1.09	0	0	0	0	0	0
1/8/2025 19:09	61001	DONV_T1	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
1/8/2025 19:09	52402	GRPA_T2	8	9	1	0.51	0.33	-0.18	-0.76	-0.78	0	0	0	0	0	0
1/8/2025 19:09	48602	POCA_T1	0	0	0	0	0	0	0.43	0.42	1	1	0	1200	1200	0
1/8/2025 19:09	54504	ENOL_T2	0	0	0	0	0	0	-0.9	-0.91	1	1	0	600	600	0
1/8/2025 19:09	44802	EDAN_T2	0	0	0	0	0	0	-4	-4.06	0	0	0	0	0	0
1/8/2025 19:10	46203	DANV_T2	9	14	5	0.84	0.7	-0.14	0	0	0	0	0	0	0	0
1/8/2025 19:10	40602	PIGR_T1	0	0	0	0	0	0	-1.41	-1.41	1	1	0	600	600	0
1/8/2025 19:10	13702	SCHN_T1	6	3	-3	0.22	0.43	0.21	-0.34	-0.31	0	0	0	0	0	0
1/8/2025 19:10	46204	DANV_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:10	44201	POIN_T1	22	41	19	0.15	0.16	0.01	-2.27	-2.27	2	2	0	2100	2100	0
1/8/2025 19:10	58102	NEKI_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
1/8/2025 19:10	63501	HEID_TBK1-2	11	12	1	0.32	0.29	-0.03	-0.32	-0.33	1	1	0	900	900	0
1/8/2025 19:10	65702	RVIL_T2	0	0	0	0	0	0	-1.4	-1.43	1	1	0	600	600	0
1/8/2025 19:10	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:10	46206	DANV_T2	0	3	3	0	0.1	0.1	1.65	1.63	2	2	0	2100	2100	0
1/8/2025 19:10	20603	GRWO_T2	5	4	-1	0.12	0.13	0.01	0	0	0	0	0	0	0	0
1/8/2025 19:10	46802	HEPB_T1	1	1	0	0.4	0.5	0.1	-1.1	-1.08	0	0	0	0	0	0
1/8/2025 19:10	41204	KENM_T2	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
1/8/2025 19:10	11102	EGYP_T1	7	8	1	0.64	0.48	-0.16	0	0	0	0	0	0	0	0
1/8/2025 19:10	40603	PIGR_T1	6	37	31	0.38	0.56	0.18	0	0	0	0	0	0	0	0
1/8/2025 19:10	60701	BREC_T1	10	4	-6	0.14	0.13	-0.01	-1.74	-1.76	4	4	0	2400	2400	0
1/8/2025 19:10	58401	MORO_T1	1	3	2	1.7	0	-1.7	0	0	1	2	1	600	1200	600
1/8/2025 19:10	61701	ELIZ_T1	2	2	0	2.2	2.5	0.3	0	0	0	0	0	0	0	0
1/8/2025 19:10	43304	WATS_T2	24	27	3	0.88	0.68	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:10	43202	MVIL_T2	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
1/8/2025 19:10	20601	GRWO_T2	21	30	9	0.65	0.62	-0.03	0.84	0.81	0	0	0	0	0	0
1/8/2025 19:10	63804	HEMP_T1	9	2	-7	2.19	6.9	4.71	0.64	0.65	0	0	0	0	0	0
1/8/2025 19:10	58402	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:10	45802	HEGI_T2	48	48	0	2.44	1.9	-0.54	0	0	0	0	0	0	0	0
1/8/2025 19:10	11104	EGYP_T1	6	4	-2	0.48	0.2	-0.28	0	0	0	0	0	0	0	0
1/8/2025 19:10	45501	DERR_T2	19	36	17	0.55	0.56	0.01	0.53	0.48	2	2	0	1800	1800	0
1/8/2025 19:10	55101	WERT_T1	0	0	0	0	0	0	-3.41	-3.21	4	4	0	3000	3000	0
1/8/2025 19:10	43201	MVIL_T2	1	4	3	1.8	0.8	-1	0	0	0	0	0	0	0	0
1/8/2025 19:10	11101	EGYP_T1	1	1	0	1.1	2.2	1.1	0	0	0	0	0	0	0	0
1/8/2025 19:10	15203	SFAR_T2	1	1	0	0.7	0.9	0.2	-0.41	-0.42	0	0	0	0	0	0
1/8/2025 19:10	45502	DERR_T2	8	14	6	0.73	0.77	0.04	0	0	0	0	0	0	0	0
1/8/2025 19:10	61703	ELIZ_T1	0	0	0	0	0	0	-2.6	-2.62	2	2	0	2100	2100	0
1/8/2025 19:10	42701	AUGU_T1	21	20	-1	0.63	0.64	0.01	0	0	0	0	0	0	0	0
1/8/2025 19:10	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:10	66903	SHIL_T2	0	0	0	0	0	0	-2.41	-2.28	0	0	0	0	0	0
1/8/2025 19:10	16301	ALPA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:11	40902	JESH_T1	2	1	-1	0.1	0	-0.1	-1.08	-1.1	1	1	0	600	600	0
1/8/2025 19:11	48302	ORWI_T2	2	2	0	0.7	0.5	-0.2	-0.5	-0.48	0	0	0	0	0	0
1/8/2025 19:11	40901	JESH_T1	1	1	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
1/8/2025 19:11	40903	JESH_T1	2	5	3	0.15	0	-0.15	0	0	0	0	0	0	0	0
1/8/2025 19:11	61703	ELIZ_T1	0	0	0	0	0	0	-2.6	-2.62	2	2	0	2100	2100	0
1/8/2025 19:11	44902	SCOT_T2	527	469	-58	0.55	0.44	-0.11	-0.85	-0.83	0	0	0	0	0	0
1/8/2025 19:11	20402	ASHF_T2	7	24	17	0.64	0.68	0.04	0	0	0	0	0	0	0	0
1/8/2025 19:11	44702	MUNC_T2	1	5	4	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
1/8/2025 19:11	40201	BEGA_T2	35	53	18	0.47	0.68	0.21	0	0	0	0	0	0	0	0
1/8/2025 19:11	44901	SCOT_T2	29	3	-26	0.16	0.23	0.07	0	0	0	0	0	0	0	0
1/8/2025 19:11	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:11	44201	POIN_T1	22	41	19	0.15	0.16	0.01	-2.27	-2.27	2	2	0	2100	2100	0
1/8/2025 19:11	53101	WTWN_T1	2	4	2	0.4	0.8	0.4	0	0	0	0	0	0	0	0
1/8/2025 19:11	60701	BREC_T1	10	4	-6	0.14	0.13	-0.01	-0.87	-0.88	2	2	0	1200	1200	0
1/8/2025 19:11	53102	WTWN_T1	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
1/8/2025 19:11	52502	PROG_T2	0	0	0	0	0	0	-0.39	-0.46	2	2	0	1800	1800	0
1/8/2025 19:11	55503	HERS_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
1/8/2025 19:11	44701	MUNC_T2	1	3	2	0.3	0	-0.3	-1.06	-1.04	0	0	0	0	0	0
1/8/2025 19:11	65005	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:11	20401	ASHF_T2	2	8	6	0.6	0.85	0.25	0	-0.03	0	0	0	0	0	0
1/8/2025 19:11	41902	REED_T1	69	91	22	0.6	0.52	-0.08	0.92	0.96	2	2	0	1800	1800	0
1/8/2025 19:11	64101	REFR_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
1/8/2025 19:11	42701	AUGU_T1	21	20	-1	0.63	0.64	0.01	0	0	0	0	0	0	0	0
1/8/2025 19:11	45802	HEGI_T2	48	48	0	2.44	1.9	-0.54	-0.42	-0.3	1	1	0	900	900	0
1/8/2025 19:11	61701	ELIZ_T1	2	2	0	2.2	2.5	0.3	0	0	0	0	0	0	0	0
1/8/2025 19:11	41901	REED_T1	7	8	1	0.64	0.6	-0.04	0	0	0	0	0	0	0	0
1/8/2025 19:11	44703	MUNC_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:11	55101	WERT_T1	0	0	0	0	0	0	-1.7	-1.6	2	2	0	1500	1500	0
1/8/2025 19:11	20403	ASHF_T2	0	9	9	0	0.42	0.42	0	0	0	0	0	0	0	0
1/8/2025 19:12	53102	WTWN_T1	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
1/8/2025 19:12	44802	EDAN_T2	0	0	0	0	0	0	-2	-2.03	0	0	0	0	0	0
1/8/2025 19:12	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:12	13704	SCHN_T2	0	1	1	0	0.1	0.1	-1.2	-1.16	0	0	0	0	0	0
1/8/2025 19:12	65003	NEFF_T2	0	0	0	0	0	0	-1.1	-1.12	2	2	0	1800	1800	0
1/8/2025 19:12	60803	BUCK_T1	0	3	3	0	0.13	0.13	-0.44	-0.43	1	1	0	600	600	0
1/8/2025 19:12	64202	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/8/2025 19:12	13702	SCHN_T1	6	3	-3	0.22	0.43	0.21	-0.34	-0.31	0	0	0	0	0	0
1/8/2025 19:12	65503	MOJO_T2	0	0	0	0	0	0	-0.27	-0.22	0	0	0	0	0	0
1/8/2025 19:12	60502	NMAN_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
1/8/2025 19:12	45501	DERR_T2	19	36	17	0.55	0.56	0.01	0	0	0	0	0	0	0	0
1/8/2025 19:12	40902	JESH_T1	2	1	-1	0.1	0	-0.1	-1.08	-1.1	1	1	0	600	600	0
1/8/2025 19:12	64201	KINZ_T1	0	1	1	0	0	0	0.56	-0.59	3	3	0	1500	1500	0
1/8/2025 19:12	40602	PIGR_T1	0	0	0	0	0	0	-1.41	-1.41	1	1	0	600	600	0
1/8/2025 19:12	60701	BREC_T1	10	4	-6	0.14	0.13	-0.01	-0.87	-0.88	2	2	0	1200	1200	0
1/8/2025 19:12	44801	EDAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:12	40603	PIGR_T1	6	37	31	0.38	0.56	0.18	0	0	0	0	0	0	0	0
1/8/2025 19:12	52402	GRPA_T2	8	9	1	0.51	0.33	-0.18	-0.76	-0.78	0	0	0	0	0	0
1/8/2025 19:12	67106	SPRI_T2	0	0	0	0	0	0	-0.88	-0.87	1	1	0	900	900	0
1/8/2025 19:12	55101	WERT_T1	0	0	0	0	0	0	-3.41	-3.21	4	4	0	3000	3000	0
1/8/2025 19:12	45502	DERR_T2	8	14	6	0.73	0.77	0.04	-0.52	-0.52	0	0	0	0	0	0
1/8/2025 19:12	59202	THOM_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
1/8/2025 19:12	52401	GRPA_T2	70	67	-3	0.88	0.43	-0.45	0	0	0	0	0	0	0	0
1/8/2025 19:12	49804	UNIV_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:12	64204	KINZ_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:12	52403	GRPA_T2	4	13	9	0.38	0.2	-0.18	0	0	0	0	0	0	0	0
1/8/2025 19:12	64101	REFR_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
1/8/2025 19:12	53802	MBRG_T2	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/8/2025 19:12	64203	KINZ_T1	8	6	-2	1.01	0.7	-0.31	0	0	0	0	0	0	0	0
1/8/2025 19:12	40903	JESH_T1	2	5	3	0.15	0	-0.15	0	0	0	0	0	0	0	0
1/8/2025 19:12	49803	UNIV_T1	2	10	8	3.7	6.9	3.2	0	0	0	0	0	0	0	0
1/8/2025 19:12	53101	WTWN_T1	2	4	2	0.4	0.8	0.4	0	0	0	0	0	0	0	0
1/8/2025 19:12	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:12	40901	JESH_T1	1	1	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
1/8/2025 19:13	61303	EARL_T1	1	1	0	1.2	0.9	-0.3	0.42	0.37	0	0	0	0	0	0
1/8/2025 19:13	51003	NHAR_T1	1	7	6	7.2	2.67	-4.53	0	0	0	0	0	0	0	0
1/8/2025 19:13	43304	WATS_T2	24	27	3	0.88	0.68	-0.2	0.46	0.46	2	2	0	1200	1200	0
1/8/2025 19:13	66903	SHIL_T2	0	0	0	0	0	0	-1.21	-1.14	0	0	0	0	0	0
1/8/2025 19:13	44502	HAMI_T2	3	2	-1	0.7	1.8	1.1	0.03	0.03	0	0	0	0	0	0
1/8/2025 19:13	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:13	60803	BUCK_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
1/8/2025 19:13	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:13	44801	EDAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:13	51002	NHAR_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
1/8/2025 19:13	60801	BUCK_T1	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
1/8/2025 19:13	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:13	49804	UNIV_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:13	65003	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:13	44802	EDAN_T2	0	0	0	0	0	0	-2	-2.03	0	0	0	0	0	0
1/8/2025 19:13	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:13	61701	ELIZ_T1	2	2	0	2.2	2.5	0.3	0	0	0	0	0	0	0	0
1/8/2025 19:13	51005	NHAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:13	52403	GRPA_T2	4	13	9	0.38	0.2	-0.18	0.04	0.01	0	0	0	0	0	0
1/8/2025 19:13	52502	PROG_T2	0	0	0	0	0	0	-0.19	-0.23	1	1	0	900	900	0
1/8/2025 19:13	52401	GRPA_T2	70	67	-3	0.88	0.43	-0.45	0	0	0	0	0	0	0	0
1/8/2025 19:13	49803	UNIV_T1	2	10	8	3.7	6.9	3.2	-0.79	-0.8	0	0	0	0	0	0
1/8/2025 19:13	52402	GRPA_T2	8	9	1	0.51	0.33	-0.18	0	0	0	0	0	0	0	0
1/8/2025 19:13	51004	NHAR_T1	3	2	-1	4.33	6.2	1.87	0	0	0	0	0	0	0	0
1/8/2025 19:14	40902	JESH_T1	2	1	-1	0.1	0	-0.1	-1.08	-1.1	1	1	0	600	600	0
1/8/2025 19:14	42701	AUGU_T1	21	20	-1	0.63	0.64	0.01	0	0	4	4	0	3600	3600	0
1/8/2025 19:14	45802	HEGI_T2	48	48	0	2.44	1.9	-0.54	-0.42	-0.3	1	1	0	900	900	0
1/8/2025 19:14	42501	ALTA_T2	0	0	0	0	0	0	0.31	0.52	3	3	0	1800	1800	0
1/8/2025 19:14	43304	WATS_T2	24	27	3	0.88	0.68	-0.2	0.23	0.23	1	1	0	600	600	0
1/8/2025 19:14	42504	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:14	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:14	40901	JESH_T1	1	1	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
1/8/2025 19:14	41901	REED_T1	7	8	1	0.64	0.6	-0.04	-1.23	-1.32	1	1	0	900	900	0
1/8/2025 19:14	62102	ELAN_T1	0	0	0	0	0	0	1	0.91	0	0	0	0	0	0
1/8/2025 19:14	13701	SCHN_T2	0	0	0	0	0	0	0.1	0.15	1	1	0	600	600	0
1/8/2025 19:14	40903	JESH_T1	2	5	3	0.15	0	-0.15	0	0	0	0	0	0	0	0
1/8/2025 19:14	41902	REED_T1	69	91	22	0.6	0.52	-0.08	0	0	0	0	0	0	0	0
1/8/2025 19:14	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:14	16301	ALPA_T1	0	1	1	0	0	0	0.32	0.33	0	0	0	0	0	0
1/8/2025 19:14	63501	HEID_TBK1-2	11	12	1	0.32	0.29	-0.03	-0.32	-0.33	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/8/2025 19:14	13704	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/8/2025 19:14	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:15	64301	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:15	41902	REED_T1	56	99	43	0.55	0.48	-0.07	0.46	0.48	1	1	0	900	900	0
1/8/2025 19:15	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:15	46203	DANV_T2	11	16	5	0.57	0.7	0.13	-1.12	-1.09	0	0	0	0	0	0
1/8/2025 19:15	44905	SCOT_T1	42	48	6	0.54	0.45	-0.09	0	0	0	0	0	0	0	0
1/8/2025 19:15	44301	BEAV_T2	10	11	1	1.79	2.38	0.59	0.05	0.03	1	1	0	600	600	0
1/8/2025 19:15	46206	DANV_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/8/2025 19:15	65501	MOJO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:15	43304	WATS_T2	26	27	1	1.03	0.55	-0.48	0.23	0.23	1	1	0	600	600	0
1/8/2025 19:15	60701	BREC_T1	4	2	-2	0.13	0.1	-0.03	-0.87	-0.88	2	2	0	1200	1200	0
1/8/2025 19:15	41901	REED_T1	5	8	3	0.58	0.6	0.02	0	0	0	0	0	0	0	0
1/8/2025 19:15	65502	MOJO_T2	0	258	258	0	0.22	0.22	-1.79	-1.69	1	1	0	900	900	0
1/8/2025 19:15	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:16	46203	DANV_T2	11	16	5	0.57	0.7	0.13	-2.23	-2.18	0	0	0	0	0	0
1/8/2025 19:16	64101	REFR_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
1/8/2025 19:16	49804	UNIV_T1	0	1	1	0	0	0	0.7	0.71	0	0	0	0	0	0
1/8/2025 19:16	51902	COPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:16	52004	LING_T2	2	2	0	5	5	0	0.17	0.17	0	0	0	0	0	0
1/8/2025 19:16	13702	SCHN_T1	2	5	3	0.55	0.22	-0.33	-0.34	-0.31	0	0	0	0	0	0
1/8/2025 19:16	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/8/2025 19:16	40701	FFLD_T1	9	5	-4	0.14	0.12	-0.02	0	0	0	0	0	0	0	0
1/8/2025 19:16	64305	LINC_T1	0	0	0	0	0	0	-0.56	-0.49	0	0	0	0	0	0
1/8/2025 19:16	49803	UNIV_T1	10	2	-8	0.91	7.2	6.29	0	0	0	0	0	0	0	0
1/8/2025 19:16	46206	DANV_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/8/2025 19:16	51906	COPA_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/8/2025 19:16	16103	BING_T2	0	1	1	0	0.4	0.4	-1.38	-1.39	1	1	0	900	900	0
1/8/2025 19:16	51905	COPA_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
1/8/2025 19:16	42902	MIDD_T2	28	29	1	0.66	1.47	0.81	0	0	0	0	0	0	0	0
1/8/2025 19:16	40702	FFLD_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:16	16102	BING_T2	1	1	0	4.2	5.8	1.6	0	0	0	0	0	0	0	0
1/8/2025 19:16	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:16	65501	MOJO_T1	0	0	0	0	0	0	-1.07	-1.15	1	1	0	900	900	0
1/8/2025 19:17	64204	KINZ_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
1/8/2025 19:17	44901	SCOT_T2	3	2	-1	0.2	0.25	0.05	0.11	0.08	0	0	0	0	0	0
1/8/2025 19:17	60801	BUCK_T1	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
1/8/2025 19:17	53802	MBRG_T2	1	1	0	0.2	0	-0.2	0.71	0.8	0	0	0	0	0	0
1/8/2025 19:17	44802	EDAN_T2	0	0	0	0	0	0	-2	-2.03	0	0	0	0	0	0
1/8/2025 19:17	41902	REED_T1	56	99	43	0.55	0.48	-0.07	0	0	0	0	0	0	0	0
1/8/2025 19:17	64203	KINZ_T1	6	8	2	0.7	0.72	0.02	-1.69	-1.73	2	2	0	1800	1800	0
1/8/2025 19:17	44902	SCOT_T2	446	443	-3	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
1/8/2025 19:17	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:17	64202	KINZ_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/8/2025 19:17	53801	MBRG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:17	44203	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:17	41903	REED_T1	0	0	0	0	0	0	0.15	0.1	1	1	0	1200	1200	0
1/8/2025 19:17	60803	BUCK_T1	3	4	1	0.13	0.18	0.05	0	0	0	0	0	0	0	0
1/8/2025 19:17	44202	POIN_T2	4	1	-3	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/8/2025 19:17	44201	POIN_T1	41	31	-10	0.16	0.16	0	0	0	0	0	0	0	0	0
1/8/2025 19:17	41901	REED_T1	5	8	3	0.58	0.6	0.02	0	0	0	0	0	0	0	0
1/8/2025 19:17	44801	EDAN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:18	55101	WERT_T1	0	0	0	0	0	0	-1.7	-1.6	2	2	0	1500	1500	0
1/8/2025 19:18	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:18	61304	EARL_T1	0	0	0	0	0	0	-0.67	-0.7	1	1	0	600	600	0
1/8/2025 19:18	43304	WATS_T2	26	27	1	1.03	0.55	-0.48	0.23	0.23	1	1	0	600	600	0
1/8/2025 19:18	61303	EARL_T1	1	1	0	1.3	0.1	-1.2	0	0	0	0	0	0	0	0
1/8/2025 19:18	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:18	40802	EXCH_T2	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
1/8/2025 19:18	48302	ORWI_T2	2	2	0	0.5	0.45	-0.05	-0.5	-0.48	0	0	0	0	0	0
1/8/2025 19:19	44302	BEAV_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
1/8/2025 19:19	44301	BEAV_T2	10	11	1	1.79	2.38	0.59	0	0	0	0	0	0	0	0
1/8/2025 19:25	60701	BREC_T1	4	2	-2	0.13	0.1	-0.03	-0.88	-0.88	2	2	0	1200	1200	0
1/8/2025 19:38	10805	CHHI_T2	14	16	2	3.31	3.15	-0.16	-0.69	-0.69	1	1	0	600	600	0
1/8/2025 19:39	48601	POCA_T1	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
1/8/2025 19:39	24801	VALM_T1	1	0	-1	0.1	0	-0.1	-0.24	-0.22	0	0	0	0	0	0
1/8/2025 19:43	53801	MBRG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 19:43	53802	MBRG_T2	0	1	1	0	0	0	0.72	0.8	0	0	0	0	0	0
1/8/2025 19:58	60701	BREC_T1	1	37	36	0.6	0.14	-0.46	-0.91	-0.93	2	2	0	1200	1200	0
1/8/2025 20:01	41902	REED_T1	66	52	-14	0.63	0.57	-0.06	0	0	0	0	0	0	0	0
1/8/2025 20:01	41901	REED_T1	5	7	2	0.36	0.46	0.1	0	0	0	0	0	0	0	0
1/8/2025 20:24	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2025 20:24	44701	MUNC_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/8/2025 20:24	44702	MUNC_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/8/2025 20:30	42503	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/8/2025 20:30	42501	ALTA_T2	0	0	0	0	0	0	0.1	0.11	1	1	0	600	600	0
1/8/2025 20:30	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/8/2025 22:02	13902	SEID_T1	3	1	-2	0.57	0.6	0.03	0	0	0	0	0	0	0	0
1/8/2025 22:02	13904	SEID_T1	32	44	12	0.77	0.51	-0.26	0	0	0	0	0	0	0	0
1/8/2025 22:04	41202	KENM_T2	0	0	0	0	0	0	-0.68	-0.82	0	0	0	0	0	0
1/8/2025 22:05	41202	KENM_T2	0	0	0	0	0	0	-0.34	-0.41	0	0	0	0	0	0
1/8/2025 23:47	60701	BREC_T1	1	0	-1	0.9	0	-0.9	-0.38	-0.37	1	1	0	600	600	0
1/9/2025 7:56	13704	SCHN_T2	2	5	3	0.4	0.9	0.5	-0.47	-0.49	0	0	0	0	0	0
1/9/2025 7:58	26702	HEML_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 7:58	26704	HEML_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
1/9/2025 8:09	55101	WERT_T1	1	2	1	0.1	0	-0.1	-1.13	-1.14	2	2	0	1500	1500	0
1/9/2025 8:09	40301	TAMA_T3	1	2	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/9/2025 8:09	40302	TAMA_T3	4	6	2	0.48	0.65	0.17	0	0	0	0	0	0	0	0
1/9/2025 8:09	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 8:10	40302	TAMA_T3	4	6	2	0.48	0.65	0.17	0.3	0.36	0	0	0	0	0	0
1/9/2025 8:10	40301	TAMA_T3	1	2	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/9/2025 8:10	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 8:10	16102	BING_T2	0	1	1	0	3.8	3.8	0	0	0	0	0	0	0	0
1/9/2025 8:11	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 8:11	55101	WERT_T1	1	2	1	0.1	0	-0.1	-1.13	-1.14	2	2	0	1500	1500	0
1/9/2025 8:12	45501	DERR_T2	31	10	-21	0.46	0.3	-0.16	0.66	0.65	2	2	0	1800	1800	0
1/9/2025 8:12	45502	DERR_T2	7	9	2	0.9	0.87	-0.03	0	0	0	0	0	0	0	0
1/9/2025 8:19	52503	PROG_T2	0	46	46	0	0.16	0.16	-0.24	-0.26	1	1	0	900	900	0
1/9/2025 8:28	51603	DUKE_T1	0	0	0	0	0	0	-0.75	-0.78	0	0	0	0	0	0
1/9/2025 8:29	53501	EVIL_T2	1	2	1	0.5	0.65	0.15	-1.59	-1.67	3	3	0	1800	1800	0
1/9/2025 8:29	53502	EVIL_T2	12	12	0	1.42	0.61	-0.81	0	0	0	0	0	0	0	0
1/9/2025 8:30	53502	EVIL_T2	12	12	0	0.63	1.26	0.63	0	0	0	0	0	0	0	0
1/9/2025 8:30	53501	EVIL_T2	2	1	-1	0.45	1.2	0.75	0	0	0	0	0	0	0	0
1/9/2025 8:30	51603	DUKE_T1	0	0	0	0	0	0	-1.5	-1.57	0	0	0	0	0	0
1/9/2025 8:32	13503	MCMI_T2	7	4	-3	0.51	0.4	-0.11	-0.28	-0.3	0	0	0	0	0	0
1/9/2025 8:34	15601	NSTR_T2	4	10	6	0.18	0.25	0.07	0	0	0	0	0	0	0	0
1/9/2025 8:34	15603	NSTR_T2	1	3	2	0.4	1.5	1.1	-0.91	-0.93	0	0	0	0	0	0
1/9/2025 8:34	52503	PROG_T2	3	57	54	0.1	0.23	0.13	-0.26	-0.29	1	1	0	900	900	0
1/9/2025 8:34	12703	MACU_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
1/9/2025 8:36	41902	REED_T1	29	3	-26	0.76	0	-0.76	1.07	0.97	2	2	0	1800	1800	0
1/9/2025 8:36	41903	REED_T1	4	0	-4	0.38	0	-0.38	0	0	0	0	0	0	0	0
1/9/2025 8:36	41901	REED_T1	7	8	1	0.34	0.56	0.22	0	0	0	0	0	0	0	0
1/9/2025 8:37	40301	TAMA_T3	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 8:37	40302	TAMA_T3	6	7	1	0.47	0.5	0.03	0	0	0	0	0	0	0	0
1/9/2025 8:42	60903	DONG_T2	0	0	0	0	0	0	0.34	0.33	1	1	0	600	600	0
1/9/2025 8:42	60901	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/9/2025 8:42	60902	DONG_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/9/2025 8:45	20601	GRWO_T2	69	61	-8	0.74	0.68	-0.06	0.48	0.5	0	0	0	0	0	0
1/9/2025 8:46	44503	HAMI_T2	2	1	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
1/9/2025 8:46	44502	HAMI_T2	2	1	-1	2.5	1.9	-0.6	0.06	0.05	0	0	0	0	0	0
1/9/2025 8:48	14201	EALL_T1	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
1/9/2025 8:50	55002	NEWP_T1	5	6	1	0.4	0.67	0.27	-0.13	-0.12	0	0	0	0	0	0
1/9/2025 8:53	59101	WALK_T2	1	0	-1	0.9	0	-0.9	1.4	1.39	1	1	0	600	600	0
1/9/2025 8:53	55101	WERT_T1	0	0	0	0	0	0	-1.21	-1.23	2	2	0	1500	1500	0
1/9/2025 8:56	45502	DERR_T2	6	1	-5	0.63	0	-0.63	0	0	0	0	0	0	0	0
1/9/2025 8:56	45501	DERR_T2	2	14	12	0.5	0.38	-0.12	0.6	0.63	2	2	0	1800	1800	0
1/9/2025 8:57	46206	DANV_T2	1	5	4	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
1/9/2025 8:57	46204	DANV_T2	8	27	19	0.44	0.27	-0.17	0	0	0	0	0	0	0	0
1/9/2025 8:57	46203	DANV_T2	8	9	1	0.78	0.67	-0.11	-1.2	-1.2	0	0	0	0	0	0
1/9/2025 8:58	29402	BELT_T1	1	8	7	5.3	0.88	-4.42	0	0	0	0	0	0	0	0
1/9/2025 9:00	47203	FAXO_T2	1	1	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
1/9/2025 9:00	46206	DANV_T2	5	1	-4	0.38	0.8	0.42	0	0	0	0	0	0	0	0
1/9/2025 9:00	15603	NSTR_T2	1	0	-1	1.5	0	-1.5	-0.91	-0.91	0	0	0	0	0	0
1/9/2025 9:00	47202	FAXO_T2	0	0	0	0	0	0	-2.23	-2.2	0	0	0	0	0	0
1/9/2025 9:00	28102	TWLA_T2	1	1	0	0.2	0	-0.2	0.29	0.28	0	0	0	0	0	0
1/9/2025 9:00	52503	PROG_T2	57	43	-14	0.23	0.18	-0.05	-0.13	-0.26	1	1	0	900	900	0
1/9/2025 9:00	53501	EVIL_T2	1	2	1	0.9	0.9	0	-1.11	-1.17	2	2	0	1200	1200	0
1/9/2025 9:00	13503	MCMI_T2	1	1	0	0.4	0	-0.4	-0.32	-0.34	0	0	0	0	0	0
1/9/2025 9:00	60404	DILL_T2	0	0	0	0	0	0	0.24	0.3	1	1	0	1200	1200	0
1/9/2025 9:00	55002	NEWP_T1	5	4	-1	0.78	0.63	-0.15	-0.12	-0.11	0	0	0	0	0	0
1/9/2025 9:00	46203	DANV_T2	8	13	5	0.64	0.67	0.03	-1.2	-1.2	0	0	0	0	0	0
1/9/2025 9:00	53502	EVIL_T2	12	12	0	1.32	0.5	-0.82	0	0	0	0	0	0	0	0
1/9/2025 9:00	15601	NSTR_T2	10	11	1	0.34	0.16	-0.18	0	0	0	0	0	0	0	0
1/9/2025 9:00	47201	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.55	0.51	0	0	0	0	0	0
1/9/2025 9:00	46204	DANV_T2	20	24	4	0.31	0.43	0.12	0	0	0	0	0	0	0	0
1/9/2025 9:02	41801	GOCI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/9/2025 9:03	64801	MONE_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
1/9/2025 9:03	64802	MONE_T2	3	12	9	0.1	0.24	0.14	0	0	0	0	0	0	0	0
1/9/2025 9:07	41801	GOCI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/9/2025 9:08	67503	WEWI_T2	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
1/9/2025 9:11	45501	DERR_T2	8	11	3	0.38	0.42	0.04	0.63	0.65	2	2	0	1800	1800	0
1/9/2025 9:11	45502	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 9:13	29402	BELT_T1	8	24	16	0.81	0.52	-0.29	0	0	0	0	0	0	0	0
1/9/2025 9:14	29402	BELT_T1	8	24	16	0.81	0.52	-0.29	0	0	0	0	0	0	0	0
1/9/2025 9:15	20601	GRWO_T2	47	57	10	0.68	0.58	-0.1	0.46	0.43	0	0	0	0	0	0
1/9/2025 9:16	45501	DERR_T2	11	5	-6	0.47	0.2	-0.27	1.26	1.3	4	4	0	3600	3600	0
1/9/2025 9:16	45502	DERR_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/9/2025 9:16	20601	GRWO_T2	47	57	10	0.68	0.58	-0.1	0.46	0.43	0	0	0	0	0	0
1/9/2025 9:17	26704	HEML_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
1/9/2025 9:19	22602	KIMB_T1	0	0	0	0	0	0	0.18	0.28	0	0	0	0	0	0
1/9/2025 9:19	41902	REED_T1	0	7	7	0	6.44	6.44	0.59	0.62	1	1	0	900	900	0
1/9/2025 9:19	41901	REED_T1	7	9	2	0.56	0.57	0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/9/2025 9:19	41903	REED_T1	0	0	0	0	0	0	0.25	0.22	1	1	0	1200	1200	0
1/9/2025 9:19	22601	KIMB_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/9/2025 9:19	44201	POIN_T1	70	60	-10	0.29	0.26	-0.03	-2.01	-1.93	2	2	0	2100	2100	0
1/9/2025 9:20	41902	REED_T1	0	7	7	0	6.44	6.44	0.59	0.62	1	1	0	900	900	0
1/9/2025 9:20	44201	POIN_T1	70	60	-10	0.29	0.26	-0.03	-2.01	-1.93	2	2	0	2100	2100	0
1/9/2025 9:20	41901	REED_T1	7	9	2	0.56	0.57	0.01	0	0	0	0	0	0	0	0
1/9/2025 9:21	64801	MONE_T2	3	4	1	0.1	0.1	0	0	0	0	0	0	0	0	0
1/9/2025 9:21	44901	SCOT_T2	2	15	13	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
1/9/2025 9:21	44902	SCOT_T2	421	542	121	0.41	0.49	0.08	-0.85	-0.81	0	0	0	0	0	0
1/9/2025 9:21	64802	MONE_T2	11	11	0	0.24	0.2	-0.04	0.38	0.35	0	0	0	0	0	0
1/9/2025 9:21	44201	POIN_T1	70	60	-10	0.29	0.26	-0.03	-2.01	-1.93	2	2	0	2100	2100	0
1/9/2025 9:22	44902	SCOT_T2	421	542	121	0.41	0.49	0.08	-0.81	-0.84	0	0	0	0	0	0
1/9/2025 9:22	44901	SCOT_T2	2	15	13	0.3	0.27	-0.03	0.31	0.45	0	0	0	0	0	0
1/9/2025 9:23	41902	REED_T1	0	7	7	0	6.44	6.44	0.62	0.47	1	1	0	900	900	0
1/9/2025 9:23	41901	REED_T1	7	9	2	0.56	0.57	0.01	0	0	0	0	0	0	0	0
1/9/2025 9:24	43304	WATS_T2	0	2	2	0	0.4	0.4	0.23	0.23	0	0	0	0	0	0
1/9/2025 9:24	13503	MCMI_T2	1	1	0	0.1	0.1	0	-0.39	-0.45	0	0	0	0	0	0
1/9/2025 9:24	13702	SCHN_T1	4	18	14	0.28	0.36	0.08	-0.35	-0.35	0	0	0	0	0	0
1/9/2025 9:24	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 9:26	46206	DANV_T2	1	3	2	1.2	0	-1.2	1.65	2.36	1	1	0	1200	1200	0
1/9/2025 9:26	46204	DANV_T2	24	7	-17	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
1/9/2025 9:26	46203	DANV_T2	9	13	4	0.66	0.67	0.01	0	0	0	0	0	0	0	0
1/9/2025 9:26	14204	EALL_T2	0	0	0	0	0	0	0.25	0.31	0	0	0	0	0	0
1/9/2025 9:27	46204	DANV_T2	24	7	-17	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
1/9/2025 9:27	46206	DANV_T2	1	3	2	1.2	0	-1.2	1.65	2.36	1	1	0	1200	1200	0
1/9/2025 9:27	46203	DANV_T2	9	13	4	0.66	0.67	0.01	0	0	0	0	0	0	0	0
1/9/2025 9:28	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 9:28	16102	BING_T2	1	1	0	3.6	3.8	0.2	0	0	0	0	0	0	0	0
1/9/2025 9:29	22601	KIMB_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/9/2025 9:29	22602	KIMB_T1	0	0	0	0	0	0	0.28	0.23	0	0	0	0	0	0
1/9/2025 9:30	46206	DANV_T2	1	2	1	0.8	0	-0.8	1.65	2.36	1	1	0	1200	1200	0
1/9/2025 9:30	46203	DANV_T2	13	9	-4	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
1/9/2025 9:30	46204	DANV_T2	7	2	-5	0.49	0.2	-0.29	0	0	0	0	0	0	0	0
1/9/2025 9:32	64503	LAVI_T1	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
1/9/2025 9:32	64501	LAVI_T1	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
1/9/2025 9:34	64901	MILL_T1	3	3	0	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
1/9/2025 9:34	43201	MVIL_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
1/9/2025 9:34	64904	MILL_T1	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
1/9/2025 9:34	13302	ORVI_T2	0	0	0	0	0	0	1.63	1.65	0	0	0	0	0	0
1/9/2025 9:36	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/9/2025 9:36	66502	SMAN_T2	1	1	0	0.1	0.3	0.2	0.5	0.31	0	0	0	0	0	0
1/9/2025 9:37	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/9/2025 9:37	66502	SMAN_T2	1	1	0	0.1	0.3	0.2	0.62	0.74	0	0	0	0	0	0
1/9/2025 9:38	66502	SMAN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/9/2025 9:38	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/9/2025 9:38	66504	SMAN_T2	0	0	0	0	0	0	0.01	0.1	0	0	0	0	0	0
1/9/2025 9:38	60201	ATGL_T2	15	26	11	0.41	0.32	-0.09	0.31	0.23	0	0	0	0	0	0
1/9/2025 9:39	66502	SMAN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/9/2025 9:39	66504	SMAN_T2	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0
1/9/2025 9:39	29402	BELT_T1	24	38	14	0.51	0.43	-0.08	0	0	0	0	0	0	0	0
1/9/2025 9:39	29401	BELT_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/9/2025 9:39	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/9/2025 9:39	44301	BEAV_T2	1	5	4	9.3	8.7	-0.6	0	0	0	0	0	0	0	0
1/9/2025 9:40	53601	DALM_T2	1	6	5	0.2	1.2	1	-0.11	-0.13	1	1	0	900	900	0
1/9/2025 9:40	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/9/2025 9:40	66502	SMAN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/9/2025 9:41	55101	WERT_T1	0	0	0	0	0	0	-1.28	-1.24	2	2	0	1500	1500	0
1/9/2025 9:41	53601	DALM_T2	1	6	5	0.2	1.2	1	-0.11	-0.13	1	1	0	900	900	0
1/9/2025 9:42	55101	WERT_T1	0	0	0	0	0	0	-1.28	-1.24	2	2	0	1500	1500	0
1/9/2025 9:42	61801	EELI_T2	4	4	0	0.35	0.58	0.23	0	0	0	0	0	0	0	0
1/9/2025 9:42	40801	EXCH_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
1/9/2025 9:42	40802	EXCH_T2	1	3	2	0.3	0.3	0	-0.32	-0.26	0	0	0	0	0	0
1/9/2025 9:42	29401	BELT_T1	0	3	3	0	0.1	0.1	0	0	1	1	0	900	900	0
1/9/2025 9:42	61802	EELI_T2	0	0	0	0	0	0	-0.07	-0.15	0	0	0	0	0	0
1/9/2025 9:42	29402	BELT_T1	24	38	14	0.51	0.43	-0.08	0	0	0	0	0	0	0	0
1/9/2025 9:43	41903	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 9:43	41901	REED_T1	7	9	2	0.47	0.59	0.12	0	0	0	0	0	0	0	0
1/9/2025 9:43	40802	EXCH_T2	1	3	2	0.3	0.3	0	-0.32	-0.26	0	0	0	0	0	0
1/9/2025 9:43	41902	REED_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 9:43	40801	EXCH_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
1/9/2025 9:44	46203	DANV_T2	13	9	-4	0.65	0.63	-0.02	-1.24	-1.28	0	0	0	0	0	0
1/9/2025 9:44	66502	SMAN_T2	1	1	0	0.1	0.3	0.2	0.31	0.37	0	0	0	0	0	0
1/9/2025 9:44	46206	DANV_T2	1	2	1	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/9/2025 9:44	66501	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/9/2025 9:44	46204	DANV_T2	7	2	-5	0.49	0.2	-0.29	0	0	0	0	0	0	0	0
1/9/2025 9:45	63804	HEMP_T1	1	4	3	6.6	3.5	-3.1	0	0	0	0	0	0	0	0
1/9/2025 9:45	63801	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/9/2025 9:45	63803	HEMP_T1	5	0	-5	0.12	0	-0.12	0	0	0	0	0	0	0	0
1/9/2025 9:45	63802	HEMP_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
1/9/2025 9:48	55001	NEWP_T1	0	0	0	0	0	0	-0.7	-0.71	1	1	0	600	600	0
1/9/2025 9:48	55002	NEWP_T1	4	6	2	0.73	1.02	0.29	0	0	0	0	0	0	0	0
1/9/2025 9:48	63501	HEID_TBK1-2	3	11	8	0.17	0.18	0.01	0	0	0	0	0	0	0	0
1/9/2025 9:50	46203	DANV_T2	8	9	1	0.6	0.58	-0.02	-1.24	-1.28	0	0	0	0	0	0
1/9/2025 9:50	46206	DANV_T2	2	7	5	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/9/2025 9:50	46204	DANV_T2	1	13	12	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
1/9/2025 9:51	55002	NEWP_T1	4	6	2	0.73	1.02	0.29	0	0	0	0	0	0	0	0
1/9/2025 9:51	55001	NEWP_T1	0	0	0	0	0	0	-0.71	-0.71	1	1	0	600	600	0
1/9/2025 9:52	14403	SSLA_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/9/2025 9:52	14401	SSLA_T1	0	0	0	0	0	0	-1.51	-1.43	2	2	0	1800	1800	0
1/9/2025 9:52	14402	SSLA_T1	2	3	1	0.8	1	0.2	0	0	0	0	0	0	0	0
1/9/2025 9:53	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 9:54	14402	SSLA_T1	2	3	1	0.8	1	0.2	0	0	0	0	0	0	0	0
1/9/2025 9:54	60701	BREC_T1	1	2	1	0.2	0	-0.2	-0.18	-0.2	1	0	-1	600	0	-600
1/9/2025 9:54	14403	SSLA_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/9/2025 9:55	61801	EELI_T2	4	5	1	0.55	0.46	-0.09	0	0	0	0	0	0	0	0
1/9/2025 9:55	21501	CEAV_T2	0	0	0	0	0	0	0.15	-0.04	1	1	0	1200	1200	0
1/9/2025 9:55	61802	EELI_T2	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
1/9/2025 9:55	60701	BREC_T1	1	2	1	0.2	0	-0.2	-0.18	-0.2	1	0	-1	600	0	-600
1/9/2025 9:56	60701	BREC_T1	1	2	1	0.2	0	-0.2	-0.36	-0.39	2	0	-2	1200	0	-1200
1/9/2025 9:56	44801	EDAN_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
1/9/2025 9:57	60701	BREC_T1	1	2	1	0.2	0	-0.2	-0.18	-0.2	1	0	-1	600	0	-600
1/9/2025 9:58	44801	EDAN_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
1/9/2025 9:59	44502	HAMI_T2	1	2	1	1.3	1.95	0.65	0.05	0.06	0	0	0	0	0	0
1/9/2025 9:59	44501	HAMI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/9/2025 9:59	47203	FAXO_T2	1	1	0	1.6	1	-0.6	-0.99	-0.98	0	0	0	0	0	0
1/9/2025 9:59	40201	BEGA_T2	1	3	2	1.6	0.25	-1.35	0	0	0	0	0	0	0	0
1/9/2025 9:59	44503	HAMI_T2	4	0	-4	0.33	0	-0.33	0	0	0	0	0	0	0	0
1/9/2025 10:00	61802	EELI_T2	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
1/9/2025 10:00	54505	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/9/2025 10:00	54504	ENOL_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/9/2025 10:00	21502	CEAV_T2	0	0	0	0	0	0	-0.9	-0.9	1	1	0	1200	1200	0
1/9/2025 10:00	54501	ENOL_T2	0	0	0	0	0	0	-0.44	-0.44	1	1	0	600	600	0
1/9/2025 10:00	61801	EELI_T2	4	3	-1	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
1/9/2025 10:01	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
1/9/2025 10:01	63501	HEID_TBK1-2	11	0	-11	0.18	0	-0.18	0.28	0.25	1	0	-1	900	0	-900
1/9/2025 10:01	44503	HAMI_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 10:01	44502	HAMI_T2	2	2	0	1.95	1.7	-0.25	0	0	0	0	0	0	0	0
1/9/2025 10:01	44504	HAMI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 10:02	63501	HEID_TBK1-2	11	0	-11	0.18	0	-0.18	0.28	0.25	1	0	-1	900	0	-900
1/9/2025 10:02	46802	HEPB_T1	8	1	-7	0.4	1.8	1.4	-1.11	-1.08	0	0	0	0	0	0
1/9/2025 10:03	44503	HAMI_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 10:03	44502	HAMI_T2	2	2	0	1.95	1.7	-0.25	0	0	0	0	0	0	0	0
1/9/2025 10:03	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
1/9/2025 10:03	44504	HAMI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 10:04	55002	NEWP_T1	4	7	3	1.03	0.93	-0.1	-0.16	-0.14	0	0	0	0	0	0
1/9/2025 10:05	55002	NEWP_T1	4	7	3	1.03	0.93	-0.1	-0.16	-0.14	0	0	0	0	0	0
1/9/2025 10:06	13702	SCHN_T1	0	0	0	0	0	0	0.81	0.78	0	0	0	0	0	0
1/9/2025 10:07	41901	REED_T1	8	9	1	0.63	0.79	0.16	0	0	0	0	0	0	0	0
1/9/2025 10:07	41902	REED_T1	0	1	1	0	0	0	0.5	0.47	1	1	0	900	900	0
1/9/2025 10:07	44801	EDAN_T2	0	0	0	0	0	0	-0.27	-0.23	0	0	0	0	0	0
1/9/2025 10:10	13702	SCHN_T1	0	0	0	0	0	0	0.81	0.78	0	0	0	0	0	0
1/9/2025 10:13	40703	FFLD_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/9/2025 10:13	40702	FFLD_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/9/2025 10:13	40701	FFLD_T1	3	18	15	0.1	0.26	0.16	0	0	0	0	0	0	0	0
1/9/2025 10:14	10801	CHHI_T1	1	1	0	0.5	1.5	1	-1.18	-1.14	2	2	0	1500	1500	0
1/9/2025 10:14	40703	FFLD_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/9/2025 10:14	40701	FFLD_T1	3	18	15	0.1	0.26	0.16	0	0	0	0	0	0	0	0
1/9/2025 10:14	40702	FFLD_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/9/2025 10:15	41602	CLEV_T1	2	1	-1	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
1/9/2025 10:16	11101	EGYP_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/9/2025 10:16	11104	EGYP_T1	0	0	0	0	0	0	1.13	1.08	0	0	0	0	0	0
1/9/2025 10:18	44801	EDAN_T2	0	0	0	0	0	0	-0.27	-0.23	0	0	0	0	0	0
1/9/2025 10:20	41902	REED_T1	0	0	0	0	0	0	0.5	0.47	1	1	0	900	900	0
1/9/2025 10:20	44901	SCOT_T2	72	246	174	0.26	0.42	0.16	0.29	0.38	0	0	0	0	0	0
1/9/2025 10:20	44902	SCOT_T2	473	688	215	0.38	0.7	0.32	0	0	0	0	0	0	0	0
1/9/2025 10:20	41901	REED_T1	7	9	2	0.44	0.82	0.38	0	0	0	0	0	0	0	0
1/9/2025 10:20	64101	REFR_T1	0	0	0	0	0	0	0.28	0.2	0	0	0	0	0	0
1/9/2025 10:20	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 10:21	44901	SCOT_T2	72	246	174	0.26	0.42	0.16	0.29	0.38	0	0	0	0	0	0
1/9/2025 10:21	44902	SCOT_T2	473	688	215	0.38	0.7	0.32	0	0	0	0	0	0	0	0
1/9/2025 10:21	54601	SUMM_T2	0	3	3	0	0.3	0.3	-1.69	-1.69	2	2	0	2100	2100	0
1/9/2025 10:21	64101	REFR_T1	0	0	0	0	0	0	0.28	0.2	0	0	0	0	0	0
1/9/2025 10:22	57201	ROSS_T1	0	0	0	0	0	0	-0.55	-0.6	0	0	0	0	0	0
1/9/2025 10:22	64101	REFR_T1	0	0	0	0	0	0	0.1	0.14	0	0	0	0	0	0
1/9/2025 10:23	64101	REFR_T1	0	0	0	0	0	0	0.1	0.14	0	0	0	0	0	0
1/9/2025 10:23	41902	REED_T1	0	0	0	0	0	0	0.94	0.85	2	2	0	1800	1800	0
1/9/2025 10:23	58202	NEWV_T1	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
1/9/2025 10:23	41901	REED_T1	7	9	2	0.44	0.82	0.38	0	0	0	0	0	0	0	0
1/9/2025 10:24	67402	WAKE_T2	2	2	0	0.3	0	-0.3	0.41	0.42	0	0	0	0	0	0
1/9/2025 10:24	67401	WAKE_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/9/2025 10:24	57201	ROSS_T1	0	0	0	0	0	0	-0.55	-0.6	0	0	0	0	0	0
1/9/2025 10:24	44905	SCOT_T1	13	3	-10	0.41	0.3	-0.11	0	0	0	0	0	0	0	0
1/9/2025 10:25	64101	REFR_T1	0	0	0	0	0	0	0.2	0.28	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/9/2025 10:27	27901	BCRK_T1	3	1	-2	2.4	6.4	4	0	0	0	0	0	0	0	0
1/9/2025 10:29	53501	EVIL_T2	1	1	0	0.6	1	0.4	-1.15	-1.17	2	2	0	1200	1200	0
1/9/2025 10:29	53502	EVIL_T2	12	12	0	0.58	1	0.42	0	0	0	0	0	0	0	0
1/9/2025 10:30	53501	EVIL_T2	1	1	0	0.5	1	0.5	-3.46	-3.5	6	6	0	3600	3600	0
1/9/2025 10:30	53502	EVIL_T2	12	13	1	1.18	1	-0.18	0	0	0	0	0	0	0	0
1/9/2025 10:30	20603	GRWO_T2	0	3	3	0	0	0	-0.44	-0.45	1	1	0	900	900	0
1/9/2025 10:30	20601	GRWO_T2	33	26	-7	0.51	0.45	-0.06	0	0	0	0	0	0	0	0
1/9/2025 10:31	40703	FFLD_T1	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
1/9/2025 10:31	53502	EVIL_T2	12	13	1	1.18	1	-0.18	0	0	0	0	0	0	0	0
1/9/2025 10:31	53501	EVIL_T2	1	1	0	0.5	1	0.5	-1.15	-1.17	2	2	0	1200	1200	0
1/9/2025 10:31	40702	FFLD_T1	2	2	0	0.15	0.15	0	-0.38	-0.39	0	0	0	0	0	0
1/9/2025 10:31	40701	FFLD_T1	18	22	4	0.26	0.26	0	0	0	0	0	0	0	0	0
1/9/2025 10:32	53502	EVIL_T2	12	13	1	1.18	1	-0.18	0	0	0	0	0	0	0	0
1/9/2025 10:32	53501	EVIL_T2	1	1	0	0.5	1	0.5	-1.15	-1.17	2	2	0	1200	1200	0
1/9/2025 10:33	13501	MCMI_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
1/9/2025 10:33	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 10:34	55001	NEWP_T1	0	2	2	0	0.25	0.25	-0.68	-0.74	0	0	0	0	0	0
1/9/2025 10:34	55002	NEWP_T1	6	9	3	0.87	0.81	-0.06	0	0	0	0	0	0	0	0
1/9/2025 10:36	55002	NEWP_T1	6	9	3	0.87	0.81	-0.06	-0.15	-0.13	0	0	0	0	0	0
1/9/2025 10:36	55001	NEWP_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
1/9/2025 10:37	55105	WERT_T1	1	1	0	0.2	0.3	0.1	-0.35	-0.33	0	0	0	0	0	0
1/9/2025 10:37	55103	WERT_T1	0	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0
1/9/2025 10:38	55105	WERT_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/9/2025 10:38	55103	WERT_T1	0	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0
1/9/2025 10:38	57205	ROSS_T1	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
1/9/2025 10:38	55101	WERT_T1	0	0	0	0	0	0	-3.68	-3.48	6	6	0	4500	4500	0
1/9/2025 10:40	55103	WERT_T1	0	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0
1/9/2025 10:40	55105	WERT_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/9/2025 10:40	55101	WERT_T1	0	0	0	0	0	0	-1.23	-1.16	2	2	0	1500	1500	0
1/9/2025 10:41	46002	BERW_T2	0	0	0	0	0	0	-1.04	-1.07	0	0	0	0	0	0
1/9/2025 10:41	55103	WERT_T1	0	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0
1/9/2025 10:41	55101	WERT_T1	0	0	0	0	0	0	-1.23	-1.16	2	2	0	1500	1500	0
1/9/2025 10:41	55105	WERT_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/9/2025 10:41	46004	BERW_T2	5	4	-1	0.62	0	-0.62	0	0	0	0	0	0	0	0
1/9/2025 10:42	17401	FOHI_T1	0	0	0	0	0	0	-0.94	-0.96	0	0	0	0	0	0
1/9/2025 10:42	11101	EGYP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/9/2025 10:42	11104	EGYP_T1	0	4	4	0	0	0	0.57	0.55	0	0	0	0	0	0
1/9/2025 10:42	55001	NEWP_T1	0	2	2	0	0.25	0.25	-0.74	-0.74	0	0	0	0	0	0
1/9/2025 10:42	55002	NEWP_T1	6	9	3	0.87	0.81	-0.06	0	0	0	0	0	0	0	0
1/9/2025 10:43	54504	ENOL_T2	0	0	0	0	0	0	-0.94	-0.93	1	1	0	600	600	0
1/9/2025 10:43	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
1/9/2025 10:44	63305	GREE_T1	3	4	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
1/9/2025 10:44	63306	GREE_T1	1	1	0	0.2	0.5	0.3	-2.07	-2.04	1	1	0	900	900	0
1/9/2025 10:45	63301	GREE_T1	1	0	-1	9.8	0	-9.8	0	0	0	0	0	0	0	0
1/9/2025 10:45	63306	GREE_T1	1	0	-1	0.5	0.3	-0.2	-2.07	-2.04	1	1	0	900	900	0
1/9/2025 10:45	66502	SMAN_T2	0	4	4	0	0.15	0.15	0.34	0.33	0	0	0	0	0	0
1/9/2025 10:45	63305	GREE_T1	4	1	-3	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
1/9/2025 10:45	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/9/2025 10:46	40801	EXCH_T2	3	2	-1	0.4	0.55	0.15	-0.36	-0.42	1	1	0	1200	1200	0
1/9/2025 10:46	40802	EXCH_T2	29	21	-8	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
1/9/2025 10:47	52401	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
1/9/2025 10:47	63306	GREE_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
1/9/2025 10:47	63305	GREE_T1	4	1	-3	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
1/9/2025 10:47	63301	GREE_T1	1	0	-1	9.8	0	-9.8	0	0	0	0	0	0	0	0
1/9/2025 10:47	63302	GREE_T1	0	0	0	0	0	0	0.63	0.66	0	0	0	0	0	0
1/9/2025 10:47	52402	GRPA_T2	6	7	1	0.78	0.46	-0.32	0	0	0	0	0	0	0	0
1/9/2025 10:47	52403	GRPA_T2	24	20	-4	0.52	0.48	-0.04	0	-0.01	0	0	0	0	0	0
1/9/2025 10:49	60501	NMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/9/2025 10:49	60502	NMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 10:49	60504	NMAN_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
1/9/2025 10:50	13705	SCHN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/9/2025 10:50	54201	PENN_T1	10	8	-2	0.65	0.65	0	0	0	0	0	0	0	0	0
1/9/2025 10:50	54203	PENN_T1	19	19	0	1.01	1.08	0.07	0.09	0.09	0	0	0	0	0	0
1/9/2025 10:50	13702	SCHN_T1	3	0	-3	0.3	0	-0.3	-0.47	0.74	0	0	0	0	0	0
1/9/2025 10:51	55001	NEWP_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
1/9/2025 10:51	55002	NEWP_T1	7	8	1	0.76	0.93	0.17	-0.13	-0.15	0	0	0	0	0	0
1/9/2025 10:53	43304	WATS_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
1/9/2025 10:53	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 10:53	41901	REED_T1	9	9	0	0.77	0.88	0.11	0	0	0	0	0	0	0	0
1/9/2025 10:53	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/9/2025 10:54	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 10:56	20402	ASHF_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/9/2025 10:56	13705	SCHN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/9/2025 10:56	20403	ASHF_T2	2	0	-2	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
1/9/2025 10:56	13702	SCHN_T1	3	0	-3	0.3	0	-0.3	0.74	0.78	0	0	0	0	0	0
1/9/2025 10:56	20401	ASHF_T2	5	4	-1	0.34	0.45	0.11	-0.04	-0.05	0	0	0	0	0	0
1/9/2025 10:57	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/9/2025 10:57	43304	WATS_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
1/9/2025 11:02	12606	MACA_T1	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
1/9/2025 11:02	12602	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 11:05	57201	ROSS_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/9/2025 11:05	57203	ROSS_T1	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0
1/9/2025 11:13	17803	GILB_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/9/2025 11:13	17804	GILB_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
1/9/2025 11:13	17805	GILB_T2	0	0	0	0	0	0	-0.46	0.41	0	0	0	0	0	0
1/9/2025 11:14	17804	GILB_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
1/9/2025 11:14	17805	GILB_T2	0	0	0	0	0	0	-0.46	0.41	0	0	0	0	0	0
1/9/2025 11:14	17803	GILB_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/9/2025 11:20	52502	PROG_T2	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
1/9/2025 11:21	66203	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 11:21	52502	PROG_T2	0	0	0	0	0	0	0.64	0.59	0	0	0	0	0	0
1/9/2025 11:21	44801	EDAN_T2	1	1	0	0.2	0.3	0.1	-0.27	-0.3	0	0	0	0	0	0
1/9/2025 11:23	66203	SISP_T2	0	1	1	0	0	0	-0.87	-0.96	2	2	0	1800	1800	0
1/9/2025 11:23	52502	PROG_T2	0	0	0	0	0	0	0.64	0.59	0	0	0	0	0	0
1/9/2025 11:25	43402	BENT_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
1/9/2025 11:25	43401	BENT_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/9/2025 11:26	10801	CHHI_T1	1	3	2	1.6	0.77	-0.83	-1.12	-1.14	2	2	0	1500	1500	0
1/9/2025 11:27	43401	BENT_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/9/2025 11:27	43402	BENT_T1	0	0	0	0	0	0	0.24	0.2	0	0	0	0	0	0
1/9/2025 11:28	43401	BENT_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/9/2025 11:28	10801	CHHI_T1	1	3	2	1.6	0.77	-0.83	-1.12	-1.14	2	2	0	1500	1500	0
1/9/2025 11:28	43402	BENT_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
1/9/2025 11:31	46803	HEPB_T2	13	10	-3	0.21	0.24	0.03	0.48	0.56	0	0	0	0	0	0
1/9/2025 11:31	46801	HEPB_T2	20	18	-2	0.28	0.21	-0.07	0	0	0	0	0	0	0	0
1/9/2025 11:32	20603	GRWO_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
1/9/2025 11:32	64305	LINC_T1	2	1	-1	0.45	0.5	0.05	-0.06	-0.18	0	0	0	0	0	0
1/9/2025 11:32	20601	GRWO_T2	1	2	1	0.6	0.7	0.1	0.41	0.41	0	0	0	0	0	0
1/9/2025 11:36	15203	SFAR_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
1/9/2025 11:36	15204	SFAR_T2	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
1/9/2025 11:36	13303	ORVI_T1	0	0	0	0	0	0	1.03	0.97	0	0	0	0	0	0
1/9/2025 11:38	15203	SFAR_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
1/9/2025 11:38	15204	SFAR_T2	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
1/9/2025 11:38	15201	SFAR_T1	2	1	-1	0.9	1.6	0.7	0.51	0.31	2	2	0	2400	2400	0
1/9/2025 11:40	52502	PROG_T2	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
1/9/2025 11:40	15201	SFAR_T1	2	1	-1	0.9	1.6	0.7	0.25	0.15	1	1	0	1200	1200	0
1/9/2025 11:42	15201	SFAR_T1	2	1	-1	0.9	1.6	0.7	0.25	0.15	1	1	0	1200	1200	0
1/9/2025 11:44	42701	AUGU_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
1/9/2025 11:44	15202	SFAR_T1	0	0	0	0	0	0	-0.46	-0.43	0	0	0	0	0	0
1/9/2025 11:44	15201	SFAR_T1	2	1	-1	0.9	1.6	0.7	0	0	0	0	0	0	0	0
1/9/2025 11:44	46803	HEPB_T2	13	10	-3	0.21	0.24	0.03	0	0	0	0	0	0	0	0
1/9/2025 11:44	46801	HEPB_T2	20	18	-2	0.28	0.21	-0.07	0	0	0	0	0	0	0	0
1/9/2025 11:44	10801	CHHI_T1	3	2	-1	0.73	0.9	0.17	-1.14	-1.16	2	2	0	1500	1500	0
1/9/2025 11:45	41801	GOCI_T2	4	15	11	0.25	0.37	0.12	0	0	0	0	0	0	0	0
1/9/2025 11:47	52402	GRPA_T2	4	4	0	0.28	0.55	0.27	0	0	0	0	0	0	0	0
1/9/2025 11:47	52401	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/9/2025 11:47	52403	GRPA_T2	15	19	4	0.61	0.63	0.02	-0.02	-0.06	0	0	0	0	0	0
1/9/2025 11:49	52403	GRPA_T2	15	19	4	0.61	0.63	0.02	-0.02	-0.06	0	0	0	0	0	0
1/9/2025 11:49	52402	GRPA_T2	4	4	0	0.28	0.55	0.27	0	0	0	0	0	0	0	0
1/9/2025 11:49	52401	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/9/2025 11:50	64101	REFR_T1	0	1	1	0	0	0	0.1	0.08	0	0	0	0	0	0
1/9/2025 11:52	66505	SMAN_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
1/9/2025 11:52	66501	SMAN_T2	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/9/2025 11:52	66502	SMAN_T2	7	11	4	0.31	0.31	0	0.46	0.25	0	0	0	0	0	0
1/9/2025 11:52	64101	REFR_T1	0	1	1	0	0	0	0.08	0.07	0	0	0	0	0	0
1/9/2025 11:52	66504	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/9/2025 11:53	64101	REFR_T1	0	1	1	0	0	0	0.08	0.07	0	0	0	0	0	0
1/9/2025 11:53	44601	SALE_T2	0	0	0	0	0	0	0	-0.05	0	0	0	0	0	0
1/9/2025 11:53	67002	STHI_T2	2	2	0	0.3	0.3	0	0.7	0.69	0	0	0	0	0	0
1/9/2025 11:53	67001	STHI_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
1/9/2025 11:54	66502	SMAN_T2	7	11	4	0.31	0.31	0	0.46	0.25	0	0	0	0	0	0
1/9/2025 11:54	66504	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/9/2025 11:54	66505	SMAN_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
1/9/2025 11:54	66501	SMAN_T2	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/9/2025 11:55	66503	SMAN_T2	0	0	0	0	0	0	0.86	0.86	0	0	0	0	0	0
1/9/2025 11:55	66501	SMAN_T2	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/9/2025 11:55	66502	SMAN_T2	7	11	4	0.31	0.31	0	0	0	0	0	0	0	0	0
1/9/2025 11:55	66505	SMAN_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
1/9/2025 11:55	66504	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/9/2025 12:02	54506	ENOL_T2	0	0	0	0	0	0	0.32	0.32	1	1	0	600	600	0
1/9/2025 12:02	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
1/9/2025 12:02	63501	HEID_TBK1-2	14	9	-5	0.26	0.31	0.05	0.19	0.13	1	1	0	900	900	0
1/9/2025 12:03	63501	HEID_TBK1-2	14	9	-5	0.26	0.31	0.05	0.19	0.13	1	1	0	900	900	0
1/9/2025 12:04	64503	LAVI_T1	15	17	2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
1/9/2025 12:04	63501	HEID_TBK1-2	14	9	-5	0.26	0.31	0.05	0.19	0.13	1	1	0	900	900	0
1/9/2025 12:04	64502	LAVI_T1	12	15	3	0.19	0.25	0.06	0	0	0	0	0	0	0	0
1/9/2025 12:04	64501	LAVI_T1	0	3	3	0	0.1	0.1	0.02	-0.08	0	0	0	0	0	0
1/9/2025 12:07	44601	SALE_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
1/9/2025 12:09	44601	SALE_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
1/9/2025 12:09	64101	REFR_T1	0	1	1	0	0.2	0.2	0.07	0.07	0	0	0	0	0	0
1/9/2025 12:10	40201	BEGA_T2	3	3	0	0.43	0.5	0.07	0	0	0	0	0	0	0	0
1/9/2025 12:12	45501	DERR_T2	0	0	0	0	0	0	1.08	1.03	2	2	0	1200	1200	0
1/9/2025 12:12	45502	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/9/2025 12:12	61001	DONV_T1	1	2	1	0.8	0.3	-0.5	-0.2	-0.18	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/9/2025 12:13	45501	DERR_T2	0	0	0	0	0	0	0.54	0.52	1	1	0	600	600	0
1/9/2025 12:13	45502	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/9/2025 12:14	45501	DERR_T2	0	0	0	0	0	0	1.08	1.03	2	2	0	1200	1200	0
1/9/2025 12:14	45502	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/9/2025 12:19	64101	REFR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/9/2025 12:20	64101	REFR_T1	0	1	1	0	0.2	0.2	0.14	0.14	0	0	0	0	0	0
1/9/2025 12:22	22803	HAUT_T2	22	20	-2	1.75	2.21	0.46	0	0	0	0	0	0	0	0
1/9/2025 12:22	64101	REFR_T1	0	1	1	0	0.2	0.2	0.07	0.07	0	0	0	0	0	0
1/9/2025 12:22	44601	SALE_T2	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
1/9/2025 12:22	22805	HAUT_T2	38	47	9	1.75	1.37	-0.38	-1.23	-1.18	1	1	0	1200	1200	0
1/9/2025 12:25	58202	NEWV_T1	0	0	0	0	0	0	-0.16	-0.22	0	0	0	0	0	0
1/9/2025 12:26	16302	ALPA_T2	1	0	-1	0.4	0	-0.4	-0.62	-0.57	0	0	0	0	0	0
1/9/2025 12:28	61802	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/9/2025 12:28	61801	EELI_T2	8	10	2	0.41	0.49	0.08	0	0	0	0	0	0	0	0
1/9/2025 12:28	61803	EELI_T2	0	0	0	0	0	0	1	0.99	0	0	0	0	0	0
1/9/2025 12:29	61802	EELI_T2	0	1	1	0	0.1	0.1	-0.14	-0.14	0	0	0	0	0	0
1/9/2025 12:29	61801	EELI_T2	8	10	2	0.41	0.49	0.08	0	0	0	0	0	0	0	0
1/9/2025 12:30	61803	EELI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/9/2025 12:30	61801	EELI_T2	10	10	0	0.42	0.43	0.01	-0.2	-0.19	0	0	0	0	0	0
1/9/2025 12:30	61802	EELI_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
1/9/2025 12:36	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 12:36	64101	REFR_T1	1	0	-1	0.2	0	-0.2	0.14	0.14	0	0	0	0	0	0
1/9/2025 12:38	59101	WALK_T2	1	0	-1	0.1	0	-0.1	2	1.86	0	0	0	0	0	0
1/9/2025 12:39	59101	WALK_T2	1	0	-1	0.1	0	-0.1	3.99	3.71	0	0	0	0	0	0
1/9/2025 12:43	60801	BUCK_T1	2	2	0	0.3	0.45	0.15	-0.1	-0.06	0	0	0	0	0	0
1/9/2025 12:43	60803	BUCK_T1	1	4	3	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
1/9/2025 12:48	52502	PROG_T2	0	0	0	0	0	0	0.51	0.56	0	0	0	0	0	0
1/9/2025 12:49	64802	MONE_T2	5	15	10	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
1/9/2025 12:49	64801	MONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/9/2025 12:51	67002	STHI_T2	5	5	0	0.22	0.3	0.08	0.7	0.68	0	0	0	0	0	0
1/9/2025 12:51	67001	STHI_T2	3	3	0	0.23	0.37	0.14	0	0	0	0	0	0	0	0
1/9/2025 12:52	67002	STHI_T2	5	5	0	0.22	0.3	0.08	1.36	1.36	0	0	0	0	0	0
1/9/2025 12:52	67001	STHI_T2	3	3	0	0.23	0.37	0.14	0	0	0	0	0	0	0	0
1/9/2025 12:53	67002	STHI_T2	5	5	0	0.22	0.3	0.08	0.68	0.68	0	0	0	0	0	0
1/9/2025 12:53	67001	STHI_T2	3	3	0	0.23	0.37	0.14	0	0	0	0	0	0	0	0
1/9/2025 12:54	67002	STHI_T2	5	5	0	0.22	0.3	0.08	0	0	0	0	0	0	0	0
1/9/2025 12:54	67001	STHI_T2	3	3	0	0.23	0.37	0.14	0	0	0	0	0	0	0	0
1/9/2025 12:56	67001	STHI_T2	3	3	0	0.23	0.37	0.14	0	0	0	0	0	0	0	0
1/9/2025 12:56	67002	STHI_T2	5	5	0	0.22	0.3	0.08	0.68	0.68	0	0	0	0	0	0
1/9/2025 12:57	42504	ALTA_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/9/2025 12:57	42501	ALTA_T2	0	0	0	0	0	0	0.1	0.09	1	1	0	600	600	0
1/9/2025 12:58	44901	SCOT_T2	75	127	52	0.2	0.29	0.09	0	0	0	0	0	0	0	0
1/9/2025 12:58	44902	SCOT_T2	534	550	16	0.46	0.49	0.03	-0.86	-0.86	0	0	0	0	0	0
1/9/2025 13:03	26701	HEML_T1	2	3	1	1.6	0.75	-0.85	0	0	0	0	0	0	0	0
1/9/2025 13:03	26703	HEML_T1	0	0	0	0	0	0	-0.63	-0.61	1	1	0	600	600	0
1/9/2025 13:08	15101	UPHA_T1	1	1	0	0.3	0.2	-0.1	0.1	0.12	0	0	0	0	0	0
1/9/2025 13:08	15102	UPHA_T1	2	4	2	1	0.68	-0.32	0	0	0	0	0	0	0	0
1/9/2025 13:08	15103	UPHA_T2	4	1	-3	0.33	0.2	-0.13	0.54	0.5	0	0	0	0	0	0
1/9/2025 13:12	14802	TREI_T2	0	0	0	0	0	0	1.11	1.12	0	0	0	0	0	0
1/9/2025 13:12	14801	TREI_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
1/9/2025 13:14	11202	ELHE_T2	0	0	0	0	0	0	0.44	0.42	1	1	0	1200	1200	0
1/9/2025 13:16	40101	HUNT_T2	432	466	34	1.5	1.75	0.25	-1.57	-0.97	0	0	0	0	0	0
1/9/2025 13:16	41601	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/9/2025 13:17	41601	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/9/2025 13:17	40101	HUNT_T2	432	466	34	1.5	1.75	0.25	-1.57	-0.97	0	0	0	0	0	0
1/9/2025 13:19	54201	PENN_T1	10	10	0	0.97	0.81	-0.16	0	0	0	0	0	0	0	0
1/9/2025 13:19	54203	PENN_T1	20	20	0	1.24	1.07	-0.17	0.04	0.05	0	0	0	0	0	0
1/9/2025 13:20	41601	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/9/2025 13:22	15201	SFAR_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/9/2025 13:22	15202	SFAR_T1	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
1/9/2025 13:25	57205	ROSS_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/9/2025 13:25	57201	ROSS_T1	2	3	1	0.3	0.17	-0.13	-0.67	-0.66	0	0	0	0	0	0
1/9/2025 13:31	40601	PIGR_T1	1	4	3	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
1/9/2025 13:31	40602	PIGR_T1	0	2	2	0	0	0	-0.34	-0.35	1	1	0	600	600	0
1/9/2025 13:31	20201	JERM_T1	0	0	0	0	0	0	-0.2	-0.31	2	2	0	2400	2400	0
1/9/2025 13:32	40101	HUNT_T2	464	454	-10	1.82	1.36	-0.46	0	0	0	0	0	0	0	0
1/9/2025 13:32	46102	MACI_T1	3	2	-1	0.33	0	-0.33	0.73	0.74	0	0	0	0	0	0
1/9/2025 13:37	40101	HUNT_T2	464	454	-10	1.82	1.36	-0.46	-0.98	-1.04	0	0	0	0	0	0
1/9/2025 13:37	57201	ROSS_T1	2	2	0	0.2	0.3	0.1	-0.66	-0.68	0	0	0	0	0	0
1/9/2025 13:37	57205	ROSS_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/9/2025 13:38	13702	SCHN_T1	0	0	0	0	0	0	0.63	0.65	0	0	0	0	0	0
1/9/2025 13:40	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 13:50	64101	REFR_T1	0	1	1	0	0.1	0.1	0.05	0.05	0	0	0	0	0	0
1/9/2025 13:51	64101	REFR_T1	0	1	1	0	0.1	0.1	0.05	0.05	0	0	0	0	0	0
1/9/2025 13:52	64101	REFR_T1	0	1	1	0	0.1	0.1	0.05	0.1	0	0	0	0	0	0
1/9/2025 13:54	67401	WAKE_T2	5	10	5	0.14	0.15	0.01	-0.9	-0.88	0	0	0	0	0	0
1/9/2025 13:56	10801	CHHI_T1	2	3	1	0.6	0.65	0.05	-1.45	-0.86	2	1	-1	1500	900	-600
1/9/2025 13:58	10805	CHHI_T2	2	1	-1	3.6	7.1	3.5	-0.81	-0.89	1	1	0	600	600	0
1/9/2025 13:58	44801	DIAN_T2	2	3	1	0.2	0.3	0.1	-0.29	-0.3	0	0	0	0	0	0
1/9/2025 14:05	65205	PRIN_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
1/9/2025 14:06	50502	MECH_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
1/9/2025 14:06	13701	SCHN_T2	0	2	2	0	0.15	0.15	0.03	0.05	0	0	0	0	0	0
1/9/2025 14:06	50506	MECH_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
1/9/2025 14:06	13704	SCHN_T2	0	0	0	0	0	0	-0.8	-0.83	0	0	0	0	0	0
1/9/2025 14:06	50501	MECH_T1	4	4	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
1/9/2025 14:07	50506	MECH_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
1/9/2025 14:07	64101	REFR_T1	0	1	1	0	0.2	0.2	0.1	0.11	0	0	0	0	0	0
1/9/2025 14:07	50501	MECH_T1	4	4	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
1/9/2025 14:07	50502	MECH_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
1/9/2025 14:09	42503	ALTA_T2	3	1	-2	0.23	0	-0.23	0	0	0	0	0	0	0	0
1/9/2025 14:09	42504	ALTA_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
1/9/2025 14:09	42501	ALTA_T2	0	0	0	0	0	0	0.07	0.07	1	1	0	600	600	0
1/9/2025 14:10	67001	STHI_T2	1	3	2	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
1/9/2025 14:10	67002	STHI_T2	6	6	0	0.12	0.2	0.08	1.32	1.28	0	0	0	0	0	0
1/9/2025 14:10	14204	EALL_T2	0	0	0	0	0	0	0.24	0.2	0	0	0	0	0	0
1/9/2025 14:11	42503	ALTA_T2	3	1	-2	0.23	0	-0.23	0	0	0	0	0	0	0	0
1/9/2025 14:11	42504	ALTA_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
1/9/2025 14:11	42501	ALTA_T2	0	0	0	0	0	0	0.14	0.14	2	2	0	1200	1200	0
1/9/2025 14:12	67001	STHI_T2	1	3	2	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
1/9/2025 14:12	67002	STHI_T2	6	6	0	0.12	0.2	0.08	0.66	0.64	0	0	0	0	0	0
1/9/2025 14:20	65702	RVIL_T2	0	0	0	0	0	0	-1.36	-1.39	0	0	0	0	0	0
1/9/2025 14:21	65702	RVIL_T2	0	0	0	0	0	0	-1.36	-1.39	0	0	0	0	0	0
1/9/2025 14:23	54601	SUMM_T2	4	6	2	0.43	0.4	-0.03	-1.77	-1.74	2	2	0	2100	2100	0
1/9/2025 14:23	65702	RVIL_T2	0	0	0	0	0	0	-2.78	-2.63	0	0	0	0	0	0
1/9/2025 14:23	64101	REFR_T1	1	1	0	0.1	0.2	0.1	0.11	0.08	0	0	0	0	0	0
1/9/2025 14:24	43301	WATS_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/9/2025 14:24	65702	RVIL_T2	0	0	0	0	0	0	-1.39	-1.31	0	0	0	0	0	0
1/9/2025 14:36	22701	MINO_T1	0	0	0	0	0	0	-1.08	-1.09	1	1	0	600	600	0
1/9/2025 14:39	64101	REFR_T1	1	1	0	0.2	0.1	-0.1	0.08	0.08	0	0	0	0	0	0
1/9/2025 14:42	60801	BUCK_T1	0	1	1	0	0.1	0.1	0.11	0.09	0	0	0	0	0	0
1/9/2025 14:42	60803	BUCK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/9/2025 14:44	60801	BUCK_T1	0	1	1	0	0.1	0.1	0.11	0.09	0	0	0	0	0	0
1/9/2025 14:44	45802	HEGI_T2	6	2	-4	0.2	0.4	0.2	0.68	0.66	0	0	0	0	0	0
1/9/2025 14:44	60803	BUCK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/9/2025 14:47	45802	HEGI_T2	1	3	2	0.4	0.4	0	0.68	0.66	0	0	0	0	0	0
1/9/2025 14:47	41202	KENM_T2	1	0	-1	0.3	0	-0.3	-0.44	0.64	0	0	0	0	0	0
1/9/2025 14:48	45802	HEGI_T2	1	3	2	0.4	0.4	0	0	0	0	0	0	0	0	0
1/9/2025 14:53	24202	PROV_T4	0	0	0	0	0	0	-0.65	-0.71	1	1	0	1200	1200	0
1/9/2025 14:53	66901	SHIL_T2	0	0	0	0	0	0	-1.55	-1.58	1	1	0	1200	1200	0
1/9/2025 14:54	66903	SHIL_T2	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
1/9/2025 14:56	43301	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/9/2025 14:56	43302	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
1/9/2025 15:00	52403	GRPA_T2	3	6	3	0.6	0.58	-0.02	-0.02	0.07	0	0	0	0	0	0
1/9/2025 15:00	52402	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/9/2025 15:06	66903	SHIL_T2	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
1/9/2025 15:09	66903	SHIL_T2	0	0	0	0	0	0	-1.15	-1.19	0	0	0	0	0	0
1/9/2025 15:10	46501	LOHA_T1	0	1	1	0	0	0	-0.83	-0.81	0	1	1	0	1200	1200
1/9/2025 15:10	46504	LOHA_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/9/2025 15:10	46506	LOHA_T1	4	3	-1	2.78	3.73	0.95	0	0	0	0	0	0	0	0
1/9/2025 15:11	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 15:14	60201	ATGL_T2	90	81	-9	0.39	0.33	-0.06	0.1	0.14	0	0	0	0	0	0
1/9/2025 15:17	46101	MACI_T2	0	0	0	0	0	0	0.06	0.14	1	1	0	1200	1200	0
1/9/2025 15:21	64802	MONE_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/9/2025 15:23	64101	REFR_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
1/9/2025 15:42	53101	WTWN_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
1/9/2025 15:42	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 15:52	50701	SMEC_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
1/9/2025 15:55	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0.17	0.15	0	0	0	0	0	0
1/9/2025 16:03	20601	GRWO_T2	0	0	0	0	0	0	0.04	0.1	0	0	0	0	0	0
1/9/2025 16:03	20603	GRWO_T2	31	13	-18	0.42	0.27	-0.15	0	0	0	0	0	0	0	0
1/9/2025 16:14	11904	ETEX_T2	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
1/9/2025 16:22	44201	POIN_T1	105	107	2	0.32	0.36	0.04	-2.07	-2.34	2	2	0	2100	2100	0
1/9/2025 16:24	44201	POIN_T1	105	107	2	0.32	0.36	0.04	-2.07	-2.34	2	2	0	2100	2100	0
1/9/2025 16:25	44201	POIN_T1	105	107	2	0.32	0.36	0.04	-2.07	-2.34	2	2	0	2100	2100	0
1/9/2025 16:46	40901	JESH_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
1/9/2025 16:46	40902	JESH_T1	0	0	0	0	0	0	-0.48	-0.52	0	0	0	0	0	0
1/9/2025 16:47	41602	CLEV_T1	8	7	-1	0.44	0	-0.44	0	0	0	0	0	0	0	0
1/9/2025 17:36	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 17:38	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 18:44	13702	SCHN_T1	0	0	0	0	0	0	0.78	0.77	0	0	0	0	0	0
1/9/2025 18:49	26704	HEML_T2	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
1/9/2025 18:52	26703	HEML_T1	24	4	-20	0.47	0.1	-0.37	-0.51	-0.51	1	1	0	600	600	0
1/9/2025 18:52	26701	HEML_T1	10	15	5	0.7	0.82	0.12	0	0	0	0	0	0	0	0
1/9/2025 18:53	67002	STHI_T2	12	7	-5	0.16	0.13	-0.03	0.7	0.7	0	0	0	0	0	0
1/9/2025 18:53	15603	NSTR_T2	0	0	0	0	0	0	-0.88	-0.95	0	0	0	0	0	0
1/9/2025 18:53	67001	STHI_T2	98	15	-83	0.13	0.18	0.05	0	0	0	0	0	0	0	0
1/9/2025 18:53	15601	NSTR_T2	30	48	18	0.44	0.51	0.07	0	0	0	0	0	0	0	0
1/9/2025 18:54	55001	NEWP_T1	0	0	0	0	0	0	-0.7	-0.67	1	1	0	600	600	0
1/9/2025 18:54	55002	NEWP_T1	4	4	0	0.63	0.83	0.2	0	0	0	0	0	0	0	0
1/9/2025 18:54	46002	BERW_T2	0	0	0	0	0	0	-0.94	-0.97	1	1	0	900	900	0
1/9/2025 18:54	46004	BERW_T2	14	20	6	1.01	0.9	-0.11	0	0	0	0	0	0	0	0
1/9/2025 18:54	43401	BENT_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/9/2025 18:54	43402	BENT_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/9/2025 18:55	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 18:55	17805	GILB_T2	0	0	0	0	0	0	-0.49	-0.46	0	0	0	0	0	0
1/9/2025 18:56	13303	ORVI_T1	0	0	0	0	0	0	0.86	0.86	0	0	0	0	0	0
1/9/2025 18:56	66903	SHIL_T2	0	0	0	0	0	0	-1.21	-1.21	0	0	0	0	0	0
1/9/2025 18:56	66901	SHIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/9/2025 18:56	22602	KIMB_T1	0	0	0	0	0	0	0.5	0.36	0	0	0	0	0	0
1/9/2025 18:57	29402	BELT_T1	7	24	17	1	0.53	-0.47	0	0	0	0	0	0	0	0
1/9/2025 18:57	20201	JERM_T1	0	2	2	0	0.1	0.1	-0.4	-0.57	2	2	0	2400	2400	0
1/9/2025 18:58	64503	LAVI_T1	76	24	-52	0.63	0.36	-0.27	0	0	0	0	0	0	0	0
1/9/2025 18:58	10805	CHHI_T2	1	7	6	7.8	1.63	-6.17	-0.85	-0.72	1	1	0	600	600	0
1/9/2025 18:58	67001	STHI_T2	98	15	-83	0.13	0.18	0.05	0	0	0	0	0	0	0	0
1/9/2025 18:58	13704	SCHN_T2	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
1/9/2025 18:58	63501	HEID_TBK1-2	22	14	-8	0.4	0.32	-0.08	-0.29	-0.36	1	1	0	900	900	0
1/9/2025 18:58	67002	STHI_T2	12	7	-5	0.16	0.13	-0.03	0.7	0.7	0	0	0	0	0	0
1/9/2025 18:58	64502	LAVI_T1	292	116	-176	0.59	0.21	-0.38	0	0	0	0	0	0	0	0
1/9/2025 18:58	64501	LAVI_T1	117	0	-117	0.39	0	-0.39	-0.36	-0.38	0	0	0	0	0	0
1/9/2025 18:59	60201	ATGL_T2	5	7	2	0.42	0.36	-0.06	0.24	0.25	0	0	0	0	0	0
1/9/2025 18:59	41202	KENM_T2	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
1/9/2025 18:59	40801	EXCH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/9/2025 18:59	40802	EXCH_T2	0	2	2	0	0.1	0.1	-0.81	-0.81	0	0	0	0	0	0
1/9/2025 19:00	21502	CEAV_T2	0	0	0	0	0	0	-0.93	-0.87	1	1	0	1200	1200	0
1/9/2025 19:00	15104	UPHA_T2	1	0	-1	3.1	0	-3.1	0	0	0	0	0	0	0	0
1/9/2025 19:00	16302	ALPA_T2	0	0	0	0	0	0	-0.58	-0.61	0	0	0	0	0	0
1/9/2025 19:00	13302	ORVI_T2	0	0	0	0	0	0	1.67	1.69	0	0	0	0	0	0
1/9/2025 19:00	15201	SFAR_T1	0	0	0	0	0	0	-0.07	-0.17	1	1	0	1200	1200	0
1/9/2025 19:00	21501	CEAV_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:00	24202	PROV_T4	0	0	0	0	0	0	-0.72	-0.72	1	1	0	1200	1200	0
1/9/2025 19:00	15101	UPHA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:00	15103	UPHA_T2	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
1/9/2025 19:01	52503	PROG_T2	30	32	2	0.14	0.14	0	-0.34	-0.37	1	1	0	900	900	0
1/9/2025 19:01	46502	LOHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:01	44902	SCOT_T2	580	591	11	0.6	0.63	0.03	0	0	0	0	0	0	0	0
1/9/2025 19:01	46501	LOHA_T1	16	16	0	0.59	1.11	0.52	-0.7	-0.75	1	1	0	1200	1200	0
1/9/2025 19:01	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:01	46506	LOHA_T1	3	3	0	1.3	1.23	-0.07	0	0	0	0	0	0	0	0
1/9/2025 19:01	54504	ENOL_T2	0	0	0	0	0	0	-0.91	-0.91	1	1	0	600	600	0
1/9/2025 19:01	44901	SCOT_T2	24	33	9	0.19	0.22	0.03	0.15	0.17	0	0	0	0	0	0
1/9/2025 19:01	29402	BELT_T1	24	10	-14	0.5	0.79	0.29	0	0	0	0	0	0	0	0
1/9/2025 19:01	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/9/2025 19:01	17805	GILB_T2	0	0	0	0	0	0	-0.49	-0.46	0	0	0	0	0	0
1/9/2025 19:01	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/9/2025 19:01	27901	BCRK_T1	2	2	0	3.1	3.15	0.05	0	0	0	0	0	0	0	0
1/9/2025 19:02	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:02	61801	EELI_T2	2	2	0	0.35	0.5	0.15	-0.85	-0.88	1	1	0	600	600	0
1/9/2025 19:02	10801	CHHI_T1	23	33	10	0.64	0.56	-0.08	-1.21	-1.28	2	2	0	1500	1500	0
1/9/2025 19:02	13701	SCHN_T2	0	0	0	0	0	0	0.09	0.09	1	1	0	600	600	0
1/9/2025 19:02	15201	SFAR_T1	0	0	0	0	0	0	-0.07	-0.17	1	1	0	1200	1200	0
1/9/2025 19:02	20601	GRWO_T2	2	1	-1	5.35	1	-4.35	0.08	0.11	0	0	0	0	0	0
1/9/2025 19:02	17401	FOHI_T1	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
1/9/2025 19:02	11102	EGYP_T1	8	10	2	0.74	0.35	-0.39	0	0	0	0	0	0	0	0
1/9/2025 19:02	44201	POIN_T1	131	156	25	0.4	0.44	0.04	-2.47	-2.49	2	2	0	2100	2100	0
1/9/2025 19:02	43301	WATS_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:02	11904	ETEX_T2	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
1/9/2025 19:02	43304	WATS_T2	5	28	23	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
1/9/2025 19:02	63501	HEID_TBK1-2	14	8	-6	0.32	0.23	-0.09	-0.29	-0.36	1	1	0	900	900	0
1/9/2025 19:02	20603	GRWO_T2	33	37	4	0.85	0.35	-0.5	0	0	0	0	0	0	0	0
1/9/2025 19:02	46101	MACI_T2	0	0	0	0	0	0	-0.56	-0.56	1	1	0	1200	1200	0
1/9/2025 19:02	42701	AUGU_T1	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
1/9/2025 19:02	11104	EGYP_T1	0	1	1	0	0	0	-0.3	-0.29	1	1	0	900	900	0
1/9/2025 19:03	45501	DERR_T2	0	3	3	0	0.5	0.5	0.17	0.18	2	2	0	1800	1800	0
1/9/2025 19:03	46802	HEPB_T1	1	1	0	0.9	1	0.1	-1.05	-1.04	0	0	0	0	0	0
1/9/2025 19:03	45502	DERR_T2	6	3	-3	1.4	0.5	-0.9	0	0	0	0	0	0	0	0
1/9/2025 19:03	57203	ROSS_T1	0	0	0	0	0	0	0.64	0.67	0	0	0	0	0	0
1/9/2025 19:03	44601	SALE_T2	0	0	0	0	0	0	-0.13	-0.09	0	0	0	0	0	0
1/9/2025 19:03	44201	POIN_T1	131	156	25	0.4	0.44	0.04	-2.47	-2.49	2	2	0	2100	2100	0
1/9/2025 19:03	54203	PENN_T1	18	18	0	0.63	0.87	0.24	0.05	0.05	0	0	0	0	0	0
1/9/2025 19:03	54201	PENN_T1	7	8	1	0.46	0.55	0.09	0	0	0	0	0	0	0	0
1/9/2025 19:04	41901	REED_T1	8	8	0	0.73	0.95	0.22	0	0	0	0	0	0	0	0
1/9/2025 19:04	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:04	41602	CLEV_T1	1	4	3	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/9/2025 19:04	22803	HAUT_T2	63	106	43	1.45	1.3	-0.15	0	0	0	0	0	0	0	0
1/9/2025 19:04	15201	SFAR_T1	0	0	0	0	0	0	-0.14	-0.34	2	2	0	2400	2400	0
1/9/2025 19:04	66903	SHIL_T2	0	0	0	0	0	0	-1.21	-1.21	0	0	0	0	0	0
1/9/2025 19:04	22805	HAUT_T2	114	146	32	1.22	1.33	0.11	-1.17	-1.11	1	1	0	1200	1200	0
1/9/2025 19:04	45501	DERR_T2	0	3	3	0	0.5	0.5	0.17	0.18	2	2	0	1800	1800	0
1/9/2025 19:04	42503	ALTA_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
1/9/2025 19:04	41902	REED_T1	69	45	-24	0.44	0.49	0.05	0	0	0	0	0	0	0	0
1/9/2025 19:04	46206	DANV_T2	0	0	0	0	0	0	3.02	1.8	4	4	0	4200	4200	0
1/9/2025 19:04	46203	DANV_T2	17	20	3	1.02	0.91	-0.11	0	0	0	0	0	0	0	0
1/9/2025 19:04	42504	ALTA_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/9/2025 19:04	45502	DERR_T2	6	3	-3	1.4	0.5	-0.9	0	0	0	0	0	0	0	0
1/9/2025 19:04	15202	SFAR_T1	0	0	0	0	0	0	-0.44	-0.48	0	0	0	0	0	0
1/9/2025 19:04	42501	ALTA_T2	2	3	1	0.15	0.2	0.05	0.14	0.18	2	2	0	1200	1200	0
1/9/2025 19:04	46204	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/9/2025 19:05	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:05	45502	DERR_T2	6	3	-3	1.4	0.5	-0.9	0	0	0	0	0	0	0	0
1/9/2025 19:05	42501	ALTA_T2	2	3	1	0.15	0.2	0.05	0.07	0.09	1	1	0	600	600	0
1/9/2025 19:05	50502	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/9/2025 19:05	67002	STHI_T2	7	6	-1	0.11	0.13	0.02	2.1	2.1	0	0	0	0	0	0
1/9/2025 19:05	42503	ALTA_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
1/9/2025 19:05	63501	HEID_TBK1-2	14	8	-6	0.32	0.23	-0.09	0	0	0	0	0	0	0	0
1/9/2025 19:05	44902	SCOT_T2	580	591	11	0.6	0.63	0.03	0	0	0	0	0	0	0	0
1/9/2025 19:05	66505	SMAN_T2	3	2	-1	0.67	0.45	-0.22	0	0	0	0	0	0	0	0
1/9/2025 19:05	66504	SMAN_T2	0	0	0	0	0	0	-3.02	-3.03	2	2	0	2400	2400	0
1/9/2025 19:05	50506	MECH_T1	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
1/9/2025 19:05	40101	HUNT_T2	542	685	143	3.17	2.82	-0.35	-1.48	-1.45	0	0	0	0	0	0
1/9/2025 19:05	54501	ENOL_T2	0	0	0	0	0	0	-0.45	-0.44	1	1	0	600	600	0
1/9/2025 19:05	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/9/2025 19:05	43301	WATS_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:05	52503	PROG_T2	30	32	2	0.14	0.14	0	0	0	0	0	0	0	0	0
1/9/2025 19:05	66203	SISP_T2	0	0	0	0	0	0	-1.18	-1.27	2	2	0	1800	1800	0
1/9/2025 19:05	60803	BUCK_T1	4	3	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
1/9/2025 19:05	44901	SCOT_T2	24	33	9	0.19	0.22	0.03	0.15	0.17	0	0	0	0	0	0
1/9/2025 19:05	67001	STHI_T2	10	37	27	0.21	0.14	-0.07	0	0	0	0	0	0	0	0
1/9/2025 19:05	47203	FAXO_T2	1	1	0	1.4	1.3	-0.1	-1	-0.99	0	0	0	0	0	0
1/9/2025 19:05	60801	BUCK_T1	0	0	0	0	0	0	-0.14	-0.11	0	0	0	0	0	0
1/9/2025 19:05	47201	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:05	42504	ALTA_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/9/2025 19:05	43302	WATS_T2	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
1/9/2025 19:05	13503	MCMI_T2	0	0	0	0	0	0	-0.33	-0.3	0	0	0	0	0	0
1/9/2025 19:05	66201	SISP_T2	1	1	0	4.7	1.9	-2.8	0	0	0	0	0	0	0	0
1/9/2025 19:05	45501	DERR_T2	0	3	3	0	0.5	0.5	0.17	0.18	2	2	0	1800	1800	0
1/9/2025 19:05	43304	WATS_T2	5	28	23	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
1/9/2025 19:06	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:06	43401	BENT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:06	60801	BUCK_T1	0	0	0	0	0	0	-0.14	-0.11	0	0	0	0	0	0
1/9/2025 19:06	11104	EGYP_T1	0	1	1	0	0	0	-0.29	-0.3	1	1	0	900	900	0
1/9/2025 19:06	15204	SFAR_T2	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
1/9/2025 19:06	11102	EGYP_T1	8	10	2	0.74	0.35	-0.39	0	0	0	0	0	0	0	0
1/9/2025 19:06	67002	STHI_T2	7	6	-1	0.11	0.13	0.02	1.4	1.4	0	0	0	0	0	0
1/9/2025 19:06	14204	EALL_T2	1	0	-1	0.2	0	-0.2	0.24	0.29	0	0	0	0	0	0
1/9/2025 19:06	63306	GREE_T1	0	0	0	0	0	0	-2.01	-2.08	1	1	0	900	900	0
1/9/2025 19:06	10801	CHHI_T1	23	33	10	0.64	0.56	-0.08	-1.28	-1.28	2	2	0	1500	1500	0
1/9/2025 19:06	43304	WATS_T2	5	28	23	0.28	0.2	-0.08	-0.15	-0.16	1	1	0	600	600	0
1/9/2025 19:06	46204	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/9/2025 19:06	41901	REED_T1	8	8	0	0.73	0.95	0.22	0	0	0	0	0	0	0	0
1/9/2025 19:06	11202	ELHE_T2	0	0	0	0	0	0	0.48	0.47	1	1	0	1200	1200	0
1/9/2025 19:06	46203	DANV_T2	17	20	3	1.02	0.91	-0.11	-1.22	-1.18	0	0	0	0	0	0
1/9/2025 19:06	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:06	15203	SFAR_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
1/9/2025 19:06	64305	LINC_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
1/9/2025 19:06	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:06	57201	ROSS_T1	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
1/9/2025 19:06	43301	WATS_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:06	41902	REED_T1	69	45	-24	0.44	0.49	0.05	0	0	0	0	0	0	0	0
1/9/2025 19:06	43402	BENT_T1	0	1	1	0	0	0	0.08	0.1	0	0	0	0	0	0
1/9/2025 19:06	67001	STHI_T2	10	37	27	0.21	0.14	-0.07	0	0	0	0	0	0	0	0
1/9/2025 19:06	41903	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:06	44601	SALE_T2	0	0	0	0	0	0	-0.13	-0.09	0	0	0	0	0	0
1/9/2025 19:06	55002	NEWP_T1	2	4	2	0.85	0.93	0.08	-0.14	-0.13	0	0	0	0	0	0
1/9/2025 19:06	60803	BUCK_T1	4	3	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
1/9/2025 19:07	65702	RVIL_T2	0	0	0	0	0	0	-4.32	-4.28	3	3	0	1800	1800	0
1/9/2025 19:07	57205	ROSS_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
1/9/2025 19:07	64101	REFR_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
1/9/2025 19:07	40802	EXCH_T2	0	2	2	0	0.1	0.1	-0.81	-0.82	0	0	0	0	0	0
1/9/2025 19:07	13503	MCMI_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
1/9/2025 19:07	53601	DALM_T2	1	2	1	0.3	0	-0.3	-0.22	-0.07	0	0	0	0	0	0
1/9/2025 19:07	67002	STHI_T2	7	6	-1	0.11	0.13	0.02	0	0	0	0	0	0	0	0
1/9/2025 19:07	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:07	66505	SMAN_T2	3	2	-1	0.67	0.45	-0.22	0	0	0	0	0	0	0	0
1/9/2025 19:07	66502	SMAN_T2	0	0	0	0	0	0	-0.15	-0.23	0	0	0	0	0	0
1/9/2025 19:07	67001	STHI_T2	10	37	27	0.21	0.14	-0.07	0	0	0	0	0	0	0	0
1/9/2025 19:07	44502	HAMI_T2	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
1/9/2025 19:07	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:07	40801	EXCH_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/9/2025 19:08	44801	EDAN_T2	0	2	2	0	0.2	0.2	-0.28	-0.3	0	0	0	0	0	0
1/9/2025 19:08	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.12	0	0	0	0	0	0
1/9/2025 19:08	41902	REED_T1	69	45	-24	0.44	0.49	0.05	0.35	0.42	1	1	0	900	900	0
1/9/2025 19:08	44502	HAMI_T2	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
1/9/2025 19:08	46203	DANV_T2	17	20	3	1.02	0.91	-0.11	-1.18	-1.2	0	0	0	0	0	0
1/9/2025 19:08	40702	FFLD_T1	0	0	0	0	0	0	-0.65	-0.74	0	0	0	0	0	0
1/9/2025 19:08	55002	NEWP_T1	2	4	2	0.85	0.93	0.08	0	0	0	0	0	0	0	0
1/9/2025 19:08	41901	REED_T1	8	8	0	0.73	0.95	0.22	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/9/2025 19:08	64101	REFR_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
1/9/2025 19:08	55001	NEWP_T1	0	0	0	0	0	0	-0.67	-0.72	1	1	0	600	600	0
1/9/2025 19:08	66505	SMAN_T2	3	2	-1	0.67	0.45	-0.22	0	0	0	0	0	0	0	0
1/9/2025 19:08	54506	ENOL_T2	0	0	0	0	0	0	0.42	0.37	1	1	0	600	600	0
1/9/2025 19:08	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:08	13501	MCMI_T1	4	5	1	0.95	0.87	-0.08	0	0	0	0	0	0	0	0
1/9/2025 19:08	61801	EELI_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
1/9/2025 19:08	44505	HAMI_T2	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
1/9/2025 19:08	61802	EELI_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
1/9/2025 19:08	10801	CHHI_T1	23	33	10	0.64	0.56	-0.08	-1.28	-1.28	2	2	0	1500	1500	0
1/9/2025 19:08	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/9/2025 19:08	40101	HUNT_T2	542	685	143	3.17	2.82	-0.35	-1.45	-1.46	0	0	0	0	0	0
1/9/2025 19:08	65702	RVIL_T2	0	0	0	0	0	0	-1.44	-1.43	1	1	0	600	600	0
1/9/2025 19:08	55101	WERT_T1	0	0	0	0	0	0	-1.6	-1.66	2	2	0	1500	1500	0
1/9/2025 19:08	46204	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/9/2025 19:09	43402	BENT_T1	0	1	1	0	0	0	0.1	0.06	0	0	0	0	0	0
1/9/2025 19:09	44902	SCOT_T2	580	591	11	0.6	0.63	0.03	-0.82	-0.84	0	0	0	0	0	0
1/9/2025 19:09	45501	DERR_T2	0	3	3	0	0.5	0.5	0.18	0.16	2	2	0	1800	1800	0
1/9/2025 19:09	46801	HEPB_T2	2	5	3	1.2	0.58	-0.62	0	0	0	0	0	0	0	0
1/9/2025 19:09	46803	HEPB_T2	1	1	0	0.1	0.2	0.1	0.56	0.54	0	0	0	0	0	0
1/9/2025 19:09	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:09	44901	SCOT_T2	24	33	9	0.19	0.22	0.03	0	0	0	0	0	0	0	0
1/9/2025 19:09	63501	HEID_TBK1-2	14	8	-6	0.32	0.23	-0.09	-0.36	-0.39	1	1	0	900	900	0
1/9/2025 19:09	67001	STHI_T2	10	37	27	0.21	0.14	-0.07	0	0	0	0	0	0	0	0
1/9/2025 19:09	45502	DERR_T2	6	3	-3	1.4	0.5	-0.9	0	0	0	0	0	0	0	0
1/9/2025 19:09	44502	HAMI_T2	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
1/9/2025 19:09	52503	PROG_T2	30	32	2	0.14	0.14	0	0	0	0	0	0	0	0	0
1/9/2025 19:09	41602	CLEV_T1	1	4	3	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/9/2025 19:09	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:09	53501	EVIL_T2	2	2	0	0.55	0.7	0.15	-2.77	-2.87	4	4	0	2400	2400	0
1/9/2025 19:09	44505	HAMI_T2	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
1/9/2025 19:09	64802	MONE_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
1/9/2025 19:09	43401	BENT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:09	67002	STHI_T2	7	6	-1	0.11	0.13	0.02	0.7	0.71	0	0	0	0	0	0
1/9/2025 19:10	66503	SMAN_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
1/9/2025 19:10	65202	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/9/2025 19:10	65205	PRIN_T1	1	4	3	1.8	3.4	1.6	0	0	0	0	0	0	0	0
1/9/2025 19:10	14204	EALL_T2	1	0	-1	0.2	0	-0.2	0.24	0.29	0	0	0	0	0	0
1/9/2025 19:10	43304	WATS_T2	5	28	23	0.28	0.2	-0.08	-0.16	-0.13	1	1	0	600	600	0
1/9/2025 19:10	14402	SSLA_T1	4	2	-2	0.73	0	-0.73	0	0	0	0	0	0	0	0
1/9/2025 19:10	66505	SMAN_T2	3	2	-1	0.67	0.45	-0.22	0	0	0	0	0	0	0	0
1/9/2025 19:10	13702	SCHN_T1	0	0	0	0	0	0	0.76	0.76	0	0	0	0	0	0
1/9/2025 19:10	64502	LAVI_T1	116	16	-100	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
1/9/2025 19:10	11102	EGYP_T1	8	10	2	0.74	0.35	-0.39	0	0	0	0	0	0	0	0
1/9/2025 19:10	14401	SSLA_T1	6	6	0	0.4	0	-0.4	-1.06	-1.04	1	1	0	600	600	0
1/9/2025 19:10	64501	LAVI_T1	0	0	0	0	0	0	-0.38	-0.36	0	0	0	0	0	0
1/9/2025 19:10	43301	WATS_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:10	44905	SCOT_T1	42	40	-2	0.74	0.38	-0.36	0	0	0	0	0	0	0	0
1/9/2025 19:10	53501	EVIL_T2	2	2	0	0.55	0.7	0.15	-2.77	-2.87	4	4	0	2400	2400	0
1/9/2025 19:10	63802	HEMP_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
1/9/2025 19:10	44901	SCOT_T2	24	33	9	0.19	0.22	0.03	0	0	0	0	0	0	0	0
1/9/2025 19:10	44201	POIN_T1	131	156	25	0.4	0.44	0.04	-2.49	-2.45	2	2	0	2100	2100	0
1/9/2025 19:10	57201	ROSS_T1	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
1/9/2025 19:10	42701	AUGU_T1	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
1/9/2025 19:10	61802	EELI_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
1/9/2025 19:10	44801	EDAN_T2	0	2	2	0	0.2	0.2	-0.28	-0.3	0	0	0	0	0	0
1/9/2025 19:10	45502	DERR_T2	6	3	-3	1.4	0.5	-0.9	0	0	0	0	0	0	0	0
1/9/2025 19:10	45501	DERR_T2	0	3	3	0	0.5	0.5	0.18	0.16	2	2	0	1800	1800	0
1/9/2025 19:10	44902	SCOT_T2	580	591	11	0.6	0.63	0.03	-0.82	-0.84	0	0	0	0	0	0
1/9/2025 19:10	11104	EGYP_T1	0	1	1	0	0	0	-0.29	-0.3	1	1	0	900	900	0
1/9/2025 19:10	61801	EELI_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
1/9/2025 19:10	66504	SMAN_T2	0	0	0	0	0	0	-1.51	-1.49	1	1	0	1200	1200	0
1/9/2025 19:10	12606	MACA_T1	23	16	-7	1.15	0.51	-0.64	0	0	0	0	0	0	0	0
1/9/2025 19:10	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:10	63804	HEMP_T1	1	9	8	6	6.1	0.1	0	0	0	0	0	0	0	0
1/9/2025 19:10	14403	SSLA_T1	7	9	2	0.66	0.35	-0.31	0	0	0	0	0	0	0	0
1/9/2025 19:10	12602	MACA_T1	4	5	1	0.1	0.16	0.06	0	0	0	0	0	0	0	0
1/9/2025 19:10	10801	CHHI_T1	23	33	10	0.64	0.56	-0.08	-1.28	-1.28	2	2	0	1500	1500	0
1/9/2025 19:10	64503	LAVI_T1	24	13	-11	0.36	0.26	-0.1	0	0	0	0	0	0	0	0
1/9/2025 19:10	45802	HEGI_T2	17	27	10	0.46	0.61	0.15	0	0	0	0	0	0	0	0
1/9/2025 19:10	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:11	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:11	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:11	52502	PROG_T2	0	0	0	0	0	0	0.71	0.74	0	0	0	0	0	0
1/9/2025 19:11	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:11	60201	ATGL_T2	7	5	-2	0.36	0.36	0	0.25	0.23	0	0	0	0	0	0
1/9/2025 19:11	60701	BREC_T1	3	7	4	0.33	0.69	0.36	-0.32	-0.31	1	1	0	600	600	0
1/9/2025 19:11	45501	DERR_T2	0	3	3	0	0.5	0.5	0.18	0.16	2	2	0	1800	1800	0
1/9/2025 19:11	55101	WERT_T1	0	0	0	0	0	0	-3.19	-3.33	4	4	0	3000	3000	0
1/9/2025 19:11	21501	CEAV_T2	1	1	0	0	0	0	-0.21	-0.23	1	1	0	1200	1200	0
1/9/2025 19:11	41602	CLEV_T1	1	4	3	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/9/2025 19:11	57201	ROSS_T1	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
1/9/2025 19:11	64101	REFR_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
1/9/2025 19:11	52503	PROG_T2	30	32	2	0.14	0.14	0	0	0	0	0	0	0	0	0
1/9/2025 19:11	45502	DERR_T2	6	3	-3	1.4	0.5	-0.9	0	0	0	0	0	0	0	0
1/9/2025 19:12	40602	PIGR_T1	1	10	9	0.1	0.25	0.15	-1.46	-1.51	1	1	0	600	600	0
1/9/2025 19:12	14402	SSLA_T1	4	2	-2	0.73	0	-0.73	0	0	0	0	0	0	0	0
1/9/2025 19:12	66505	SMAN_T2	3	2	-1	0.67	0.45	-0.22	0	0	0	0	0	0	0	0
1/9/2025 19:12	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:12	50506	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:12	13702	SCHN_T1	0	0	0	0	0	0	0.76	0.76	0	0	0	0	0	0
1/9/2025 19:12	61801	EELI_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
1/9/2025 19:12	14401	SSLA_T1	6	6	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/9/2025 19:12	55001	NEWP_T1	0	0	0	0	0	0	-0.67	-0.72	1	1	0	600	600	0
1/9/2025 19:12	53101	WTWN_T1	1	3	2	1.5	1.6	0.1	0	0	0	0	0	0	0	0
1/9/2025 19:12	61803	EELI_T2	0	0	0	0	0	0	0.77	0.77	0	0	0	0	0	0
1/9/2025 19:12	43401	BENT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:12	66903	SHIL_T2	0	0	0	0	0	0	-1.21	-1.21	0	0	0	0	0	0
1/9/2025 19:12	55002	NEWP_T1	2	4	2	0.85	0.93	0.08	0	0	0	0	0	0	0	0
1/9/2025 19:12	57201	ROSS_T1	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
1/9/2025 19:12	61802	EELI_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
1/9/2025 19:12	54601	SUMM_T2	0	0	0	0	0	0	-1.59	-1.62	2	2	0	2100	2100	0
1/9/2025 19:12	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:12	20601	GRWO_T2	2	1	-1	5.35	1	-4.35	0	0	0	0	0	0	0	0
1/9/2025 19:12	40603	PIGR_T1	1	6	5	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
1/9/2025 19:12	60803	BUCK_T1	4	3	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
1/9/2025 19:12	14403	SSLA_T1	7	9	2	0.66	0.35	-0.31	0	0	0	0	0	0	0	0
1/9/2025 19:12	63306	GREE_T1	0	0	0	0	0	0	-2.08	-2.11	1	1	0	900	900	0
1/9/2025 19:12	20603	GRWO_T2	33	37	4	0.85	0.35	-0.5	-0.42	-0.42	1	1	0	900	900	0
1/9/2025 19:12	50502	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/9/2025 19:12	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:12	45502	DERR_T2	6	3	-3	1.4	0.5	-0.9	0	0	0	0	0	0	0	0
1/9/2025 19:12	60801	BUCK_T1	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
1/9/2025 19:12	43402	BENT_T1	0	1	1	0	0	0	0.1	0.06	0	0	0	0	0	0
1/9/2025 19:12	45501	DERR_T2	0	3	3	0	0.5	0.5	0.18	0.16	2	2	0	1800	1800	0
1/9/2025 19:12	45802	HEGI_T2	17	27	10	0.46	0.61	0.15	-0.11	-0.03	1	1	0	900	900	0
1/9/2025 19:12	44201	POIN_T1	131	156	25	0.4	0.44	0.04	-2.49	-2.45	2	2	0	2100	2100	0
1/9/2025 19:12	44502	HAMI_T2	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
1/9/2025 19:12	59101	WAUK_T2	0	1	1	0	0	0	1.96	2.07	2	2	0	1200	1200	0
1/9/2025 19:12	64101	REFR_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
1/9/2025 19:13	42504	ALTA_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/9/2025 19:13	42501	ALTA_T2	2	3	1	0.15	0.2	0.05	0.09	0.08	1	1	0	600	600	0
1/9/2025 19:13	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.12	0	0	0	0	0	0
1/9/2025 19:13	66505	SMAN_T2	3	2	-1	0.67	0.45	-0.22	0	0	0	0	0	0	0	0
1/9/2025 19:13	60701	BREC_T1	3	7	4	0.33	0.69	0.36	-0.64	-0.62	2	2	0	1200	1200	0
1/9/2025 19:13	46203	DANV_T2	17	20	3	1.02	0.91	-0.11	-1.18	-1.2	0	0	0	0	0	0
1/9/2025 19:13	42503	ALTA_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
1/9/2025 19:13	64101	REFR_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
1/9/2025 19:13	40101	HUNT_T2	542	685	143	3.17	2.82	-0.35	0	0	0	0	0	0	0	0
1/9/2025 19:13	61801	EELI_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
1/9/2025 19:13	40201	BEGA_T2	0	22	22	0	0.16	0.16	0	0	0	0	0	0	0	0
1/9/2025 19:13	61802	EELI_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
1/9/2025 19:13	40901	JESH_T1	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
1/9/2025 19:13	46206	DANV_T2	0	0	0	0	0	0	0.9	0.93	2	2	0	2100	2100	0
1/9/2025 19:13	46204	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/9/2025 19:13	40902	JESH_T1	0	1	1	0	0	0	-1.11	-1.14	1	1	0	600	600	0
1/9/2025 19:13	61001	DONV_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
1/9/2025 19:14	45502	DERR_T2	6	3	-3	1.4	0.5	-0.9	0	0	0	0	0	0	0	0
1/9/2025 19:14	15202	SFAR_T1	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
1/9/2025 19:14	45802	HEGI_T2	17	27	10	0.46	0.61	0.15	-0.11	-0.03	1	1	0	900	900	0
1/9/2025 19:14	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:14	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.12	0	0	0	0	0	0
1/9/2025 19:14	53501	EVIL_T2	2	2	0	0.55	0.7	0.15	-1.39	-1.44	2	2	0	1200	1200	0
1/9/2025 19:14	13702	SCHN_T1	0	0	0	0	0	0	0.76	0.76	0	0	0	0	0	0
1/9/2025 19:14	67002	STHI_T2	7	6	-1	0.11	0.13	0.02	0.7	0.71	0	0	0	0	0	0
1/9/2025 19:14	67401	WAKE_T2	0	0	0	0	0	0	-0.97	-1.01	0	0	0	0	0	0
1/9/2025 19:14	67001	STHI_T2	10	37	27	0.21	0.14	-0.07	0.17	0.16	0	0	0	0	0	0
1/9/2025 19:14	63501	HEID_TBK1-2	14	8	-6	0.32	0.23	-0.09	-0.36	-0.39	1	1	0	900	900	0
1/9/2025 19:14	40701	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:14	66201	SISP_T2	1	1	0	4.7	1.9	-2.8	0	0	0	0	0	0	0	0
1/9/2025 19:14	20603	GRWO_T2	33	37	4	0.85	0.35	-0.5	0	0	0	0	0	0	0	0
1/9/2025 19:14	64101	REFR_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
1/9/2025 19:14	66505	SMAN_T2	3	2	-1	0.67	0.45	-0.22	0	0	0	0	0	0	0	0
1/9/2025 19:14	20601	GRWO_T2	2	1	-1	5.35	1	-4.35	0.23	0.19	0	0	0	0	0	0
1/9/2025 19:14	44201	POIN_T1	131	156	25	0.4	0.44	0.04	-2.49	-2.45	2	2	0	2100	2100	0
1/9/2025 19:14	45501	DERR_T2	0	3	3	0	0.5	0.5	0.18	0.16	2	2	0	1800	1800	0
1/9/2025 19:15	44901	SCOT_T2	33	2	-31	0.22	0.1	-0.12	0.17	0.14	0	0	0	0	0	0
1/9/2025 19:15	52401	GRPA_T2	4	12	8	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
1/9/2025 19:15	63501	HEID_TBK1-2	8	7	-1	0.2	0.23	0.03	-0.36	-0.39	1	1	0	900	900	0
1/9/2025 19:15	52403	GRPA_T2	1	3	2	0.5	0	-0.5	0.08	0.06	0	0	0	0	0	0
1/9/2025 19:15	55002	NEWP_T1	4	4	0	0.83	0.85	0.02	-0.14	-0.13	0	0	0	0	0	0
1/9/2025 19:15	46102	MACI_T1	7	7	0	0.3	0	-0.3	0.72	0.7	0	0	0	0	0	0
1/9/2025 19:15	52402	GRPA_T2	8	9	1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/9/2025 19:15	44902	SCOT_T2	590	464	-126	0.63	0.41	-0.22	0	0	0	0	0	0	0	0
1/9/2025 19:15	52404	GRPA_T2	3	4	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
1/9/2025 19:16	60701	BREC_T1	7	7	0	0.87	0.53	-0.34	-0.32	-0.31	1	1	0	600	600	0
1/9/2025 19:16	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:16	53501	EVIL_T2	2	2	0	0.7	0.35	-0.35	-1.39	-1.44	2	2	0	1200	1200	0
1/9/2025 19:16	64101	REFR_T1	0	0	0	0	0	0	0.48	0.51	0	0	0	0	0	0
1/9/2025 19:17	64101	REFR_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
1/9/2025 19:17	53501	EVIL_T2	2	2	0	0.7	0.35	-0.35	-1.39	-1.44	2	2	0	1200	1200	0
1/9/2025 19:17	43301	WATS_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/9/2025 19:17	52503	PROG_T2	32	0	-32	0.14	0	-0.14	0	0	0	0	0	0	0	0
1/9/2025 19:17	43304	WATS_T2	4	31	27	0.2	0.67	0.47	-0.31	-0.26	2	2	0	1200	1200	0
1/9/2025 19:17	52502	PROG_T2	0	0	0	0	0	0	0.71	0.74	0	0	0	0	0	0
1/9/2025 19:17	44801	EDAN_T2	2	1	-1	0.15	0.2	0.05	-0.28	-0.3	0	0	0	0	0	0
1/9/2025 19:18	58202	NEWV_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
1/9/2025 19:18	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:18	44301	BEAV_T2	4	12	8	1.9	1.11	-0.79	0	0	0	0	0	0	0	0
1/9/2025 19:18	44201	POIN_T1	152	144	-8	0.43	0.42	-0.01	-2.49	-2.45	2	2	0	2100	2100	0
1/9/2025 19:18	66503	SMAN_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
1/9/2025 19:18	66505	SMAN_T2	2	3	1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
1/9/2025 19:18	64101	REFR_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
1/9/2025 19:18	64904	MILL_T1	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
1/9/2025 19:18	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:19	52502	PROG_T2	0	0	0	0	0	0	0.71	0.74	0	0	0	0	0	0
1/9/2025 19:19	58202	NEWV_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
1/9/2025 19:19	52503	PROG_T2	32	0	-32	0.14	0	-0.14	0	0	0	0	0	0	0	0
1/9/2025 19:20	44905	SCOT_T1	21	42	21	0.38	0.57	0.19	0	0	0	0	0	0	0	0
1/9/2025 19:20	63302	GREE_T1	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
1/9/2025 19:20	55101	WERT_T1	0	0	0	0	0	0	-1.6	-1.66	2	2	0	1500	1500	0
1/9/2025 19:20	41902	REED_T1	40	55	15	0.44	0.45	0.01	0	0	0	0	0	0	0	0
1/9/2025 19:20	41903	REED_T1	0	0	0	0	0	0	0.09	0.18	1	1	0	1200	1200	0
1/9/2025 19:20	50701	SMEC_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
1/9/2025 19:20	41901	REED_T1	8	9	1	0.95	0.66	-0.29	0	0	0	0	0	0	0	0
1/9/2025 19:21	52402	GRPA_T2	8	9	1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
1/9/2025 19:21	52403	GRPA_T2	1	3	2	0.5	0	-0.5	0.06	0.03	0	0	0	0	0	0
1/9/2025 19:21	52404	GRPA_T2	3	4	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
1/9/2025 19:21	52401	GRPA_T2	4	12	8	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
1/9/2025 19:22	52503	PROG_T2	32	0	-32	0.14	0	-0.14	0	0	0	0	0	0	0	0
1/9/2025 19:22	55101	WERT_T1	0	0	0	0	0	0	-1.66	-1.61	2	2	0	1500	1500	0
1/9/2025 19:22	55105	WERT_T1	0	0	0	0	0	0	-0.24	-0.24	1	1	0	900	900	0
1/9/2025 19:22	52502	PROG_T2	0	0	0	0	0	0	0.74	0.73	0	0	0	0	0	0
1/9/2025 19:23	59101	WALK_T2	0	1	1	0	1	1	1.04	1.01	1	1	0	600	600	0
1/9/2025 19:25	55002	NEWP_T1	4	4	0	0.83	0.85	0.02	0	0	0	0	0	0	0	0
1/9/2025 19:25	55001	NEWP_T1	0	0	0	0	0	0	-0.72	-0.72	1	1	0	600	600	0
1/9/2025 19:25	55101	WERT_T1	0	0	0	0	0	0	-1.66	-1.61	2	2	0	1500	1500	0
1/9/2025 19:25	44502	HAMI_T2	1	1	0	2.3	2.1	-0.2	0.03	0.02	0	0	0	0	0	0
1/9/2025 19:25	40101	HUNT_T2	552	870	318	2.9	2.32	-0.58	-1.46	-1.4	0	0	0	0	0	0
1/9/2025 19:27	44601	SALE_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
1/9/2025 19:30	63306	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:30	65702	RVIL_T2	0	0	0	0	0	0	-1.43	-1.43	1	1	0	600	600	0
1/9/2025 19:31	54203	PENN_T1	18	18	0	0.87	0.76	-0.11	0.06	0.03	0	0	0	0	0	0
1/9/2025 19:31	54201	PENN_T1	8	7	-1	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
1/9/2025 19:40	22701	MINO_T1	0	0	0	0	0	0	-1.04	-1.03	1	1	0	600	600	0
1/9/2025 19:56	16102	BING_T2	1	1	0	4.2	3.6	-0.6	0	0	0	0	0	0	0	0
1/9/2025 19:56	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2025 19:59	60701	BREC_T1	4	4	0	0.53	0.2	-0.33	-0.32	-0.31	1	1	0	600	600	0
1/9/2025 20:06	55101	WERT_T1	0	0	0	0	0	0	-1.74	-1.74	2	2	0	1500	1500	0
1/9/2025 21:28	54601	SUMM_T2	1	0	-1	0.1	0	-0.1	-1.63	-1.62	2	2	0	2100	2100	0
1/9/2025 21:44	44901	SCOT_T2	178	80	-98	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
1/9/2025 21:44	44902	SCOT_T2	694	618	-76	0.93	0.69	-0.24	-0.86	-0.87	0	0	0	0	0	0
1/9/2025 22:56	66901	SHIL_T2	0	0	0	0	0	0	-0.34	-1.72	0	1	1	0	1200	1200
1/10/2025 7:46	26702	HEMI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 7:46	26704	HEMI_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
1/10/2025 7:53	56501	ROCK_T2	2	3	1	1.25	1.4	0.15	-1.37	-1.33	0	0	0	0	0	0
1/10/2025 7:53	56504	ROCK_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/10/2025 7:54	66503	SMAN_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
1/10/2025 7:54	66505	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/10/2025 7:56	11102	EGYP_T1	6	6	0	0.17	0	-0.17	0	0	0	0	0	0	0	0
1/10/2025 7:56	11104	EGYP_T1	21	5	-16	0.53	0	-0.53	0	0	0	0	0	0	0	0
1/10/2025 7:56	55101	WERT_T1	0	0	0	0	0	0	-1.14	-1.22	2	2	0	1500	1500	0
1/10/2025 8:00	63401	HONY_T1	0	0	0	0	0	0	0.04	0.03	1	1	0	600	600	0
1/10/2025 8:06	13704	SCHN_T2	0	0	0	0	0	0	-0.65	-0.68	0	0	0	0	0	0
1/10/2025 8:07	55101	WERT_T1	0	0	0	0	0	0	-1.22	-1.13	2	2	0	1500	1500	0
1/10/2025 8:08	66504	SMAN_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
1/10/2025 8:08	66505	SMAN_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/10/2025 8:10	55101	WERT_T1	0	0	0	0	0	0	-1.22	-1.13	2	2	0	1500	1500	0
1/10/2025 8:10	49804	UNIV_T1	0	2	2	0	0	0	0.69	0.76	0	0	0	0	0	0
1/10/2025 8:10	49803	UNIV_T1	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
1/10/2025 8:11	55101	WERT_T1	0	0	0	0	0	0	-1.22	-1.13	2	2	0	1500	1500	0
1/10/2025 8:12	51603	DUKE_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
1/10/2025 8:12	57602	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:12	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:12	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:12	16102	BING_T2	1	1	0	1.1	2.9	1.8	0	0	0	0	0	0	0	0
1/10/2025 8:14	41902	REED_T1	2	3	1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
1/10/2025 8:14	41901	REED_T1	8	9	1	0.6	0.78	0.18	0	0	0	0	0	0	0	0
1/10/2025 8:14	41903	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:15	63401	HONY_T1	0	0	0	0	0	0	0.03	0.14	1	1	0	600	600	0
1/10/2025 8:16	51603	DUKE_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
1/10/2025 8:16	52001	LING_T1	0	0	0	0	0	0	-0.83	-0.85	0	0	0	0	0	0
1/10/2025 8:20	52501	PROG_T1	277	178	-99	0.47	0.2	-0.27	0	0	0	0	0	0	0	0
1/10/2025 8:20	52502	PROG_T2	0	0	0	0	0	0	-0.19	-0.2	1	1	0	900	900	0
1/10/2025 8:20	52504	PROG_T1	169	11	-158	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
1/10/2025 8:20	65702	RVIL_T2	0	0	0	0	0	0	-1.3	-1.36	1	1	0	600	600	0
1/10/2025 8:22	52504	PROG_T1	169	11	-158	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
1/10/2025 8:22	52501	PROG_T1	277	178	-99	0.47	0.2	-0.27	-0.54	-0.57	1	1	0	300	300	0
1/10/2025 8:26	11202	ELHE_T2	0	0	0	0	0	0	0.47	0.47	1	1	0	1200	1200	0
1/10/2025 8:26	46204	DANV_T2	10	67	57	0.49	0.31	-0.18	0	0	0	0	0	0	0	0
1/10/2025 8:26	46206	DANV_T2	10	43	33	0.5	0.41	-0.09	0	0	0	0	0	0	0	0
1/10/2025 8:26	46203	DANV_T2	10	10	0	0.77	0.82	0.05	-1.1	-1.13	0	0	0	0	0	0
1/10/2025 8:27	46206	DANV_T2	10	43	33	0.5	0.41	-0.09	0	0	0	0	0	0	0	0
1/10/2025 8:27	24103	EHAZ_T1	3	0	-3	0.1	0	-0.1	-0.21	-0.18	0	0	0	0	0	0
1/10/2025 8:27	61304	EARL_T1	0	0	0	0	0	0	-0.43	-0.52	1	1	0	600	600	0
1/10/2025 8:27	57101	SPHI_T2	6	6	0	0.82	0.58	-0.24	0	0	0	0	0	0	0	0
1/10/2025 8:27	24102	EHAZ_T1	8	12	4	1.45	0.7	-0.75	0	0	0	0	0	0	0	0
1/10/2025 8:27	57106	SPHI_T2	3	3	0	1.97	1.93	-0.04	0	0	0	0	0	0	0	0
1/10/2025 8:27	46203	DANV_T2	10	10	0	0.77	0.82	0.05	-1.1	-1.13	0	0	0	0	0	0
1/10/2025 8:27	46204	DANV_T2	10	67	57	0.49	0.31	-0.18	0	0	0	0	0	0	0	0
1/10/2025 8:27	57104	SPHI_T2	2	3	1	3.15	3.45	0.3	-1.68	-1.68	1	1	0	900	900	0
1/10/2025 8:27	24101	EHAZ_T1	108	133	25	1.4	1.36	-0.04	0	0	0	0	0	0	0	0
1/10/2025 8:27	24105	EHAZ_T1	16	16	0	2.28	2.4	0.12	0	0	0	0	0	0	0	0
1/10/2025 8:28	54502	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:28	54501	ENOL_T2	0	0	0	0	0	0	-0.45	-0.46	1	1	0	600	600	0
1/10/2025 8:28	11201	ELHE_T2	0	0	0	0	0	0	-0.15	-0.01	2	2	0	2400	2400	0
1/10/2025 8:28	11406	FARM_T1	1	1	0	1.8	1	-0.8	0	0	0	0	0	0	0	0
1/10/2025 8:28	61802	EELI_T2	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
1/10/2025 8:28	61801	EELI_T2	4	4	0	0.25	0.4	0.15	-0.74	-0.74	1	1	0	600	600	0
1/10/2025 8:28	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 8:28	12006	HATF_T1	2	2	0	1.4	1.75	0.35	-0.12	-0.19	2	2	0	2400	2400	0
1/10/2025 8:28	11405	FARM_T1	1	14	13	0.1	0.13	0.03	0.93	0.94	1	1	0	1200	1200	0
1/10/2025 8:28	13501	MCMI_T1	2	2	0	2.35	1.3	-1.05	0.5	0.47	0	0	0	0	0	0
1/10/2025 8:28	12001	HATF_T1	1	1	0	3.1	2.9	-0.2	0	0	0	0	0	0	0	0
1/10/2025 8:29	63804	HEMP_T1	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
1/10/2025 8:29	58701	ROSE_T2	0	0	0	0	0	0	-2.98	-3.08	2	2	0	1200	1200	0
1/10/2025 8:29	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 8:29	58705	ROSE_T2	5	5	0	1.58	1.46	-0.12	0	0	0	0	0	0	0	0
1/10/2025 8:29	48901	FOSP_T2	0	0	0	0	0	0	0.06	0.12	1	1	0	600	600	0
1/10/2025 8:29	24101	EHAZ_T1	108	133	25	1.4	1.36	-0.04	0	0	0	0	0	0	0	0
1/10/2025 8:29	24105	EHAZ_T1	16	16	0	2.28	2.4	0.12	0	0	0	0	0	0	0	0
1/10/2025 8:29	61304	EARL_T1	0	0	0	0	0	0	-0.43	-0.52	1	1	0	600	600	0
1/10/2025 8:29	63802	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:29	58706	ROSE_T2	1	1	0	2	2	0	0	0	0	0	0	0	0	0
1/10/2025 8:29	24102	EHAZ_T1	8	12	4	1.45	0.7	-0.75	0	0	0	0	0	0	0	0
1/10/2025 8:29	24103	EHAZ_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/10/2025 8:29	54502	ENOL_T2	0	0	0	0	0	0	-1.92	-1.92	1	1	0	600	600	0
1/10/2025 8:29	24104	EHAZ_T1	0	0	0	0	0	0	-2.13	-2.15	1	1	0	1200	1200	0
1/10/2025 8:29	61306	EARL_T1	0	0	0	0	0	0	-3.78	-3.78	0	0	0	0	0	0
1/10/2025 8:30	12006	HATF_T1	2	2	0	1.75	1.95	0.2	0	0	0	0	0	0	0	0
1/10/2025 8:30	41202	KENM_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
1/10/2025 8:30	54505	ENOL_T2	0	1	1	0	0.3	0.3	-0.98	-0.99	1	1	0	600	600	0
1/10/2025 8:30	24101	EHAZ_T1	106	128	22	1.52	1.31	-0.21	0	0	0	0	0	0	0	0
1/10/2025 8:30	22805	HAUT_T2	23	29	6	1.55	1.4	-0.15	0	0	0	0	0	0	0	0
1/10/2025 8:30	58706	ROSE_T2	1	1	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
1/10/2025 8:30	64204	KINZ_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
1/10/2025 8:30	24105	EHAZ_T1	12	16	4	2.43	1.88	-0.55	-1.91	-1.88	1	1	0	1200	1200	0
1/10/2025 8:30	13503	MCMI_T2	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
1/10/2025 8:30	22803	HAUT_T2	9	24	15	2.29	1.21	-1.08	0	0	0	0	0	0	0	0
1/10/2025 8:30	54503	ENOL_T2	0	0	0	0	0	0	-1.95	-1.97	2	2	0	1200	1200	0
1/10/2025 8:30	64702	LITI_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
1/10/2025 8:30	11407	FARM_T1	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
1/10/2025 8:30	17401	FOHI_T1	0	0	0	0	0	0	-1.94	-1.96	0	0	0	0	0	0
1/10/2025 8:30	58701	ROSE_T2	0	0	0	0	0	0	-1.49	-1.54	1	1	0	600	600	0
1/10/2025 8:30	12001	HATF_T1	1	1	0	3.4	2.9	-0.5	0	0	0	0	0	0	0	0
1/10/2025 8:30	12002	HATF_T1	0	0	0	0	0	0	-0.59	-0.55	1	1	0	1200	1200	0
1/10/2025 8:30	64203	KINZ_T1	0	0	0	0	0	0	-1.52	-1.69	3	3	0	2100	2100	0
1/10/2025 8:30	11404	FARM_T1	0	0	0	0	0	0	-0.49	-0.47	1	1	0	1200	1200	0
1/10/2025 8:30	11406	FARM_T1	1	1	0	1	1	0	-0.67	-0.74	0	0	0	0	0	0
1/10/2025 8:30	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:30	11401	FARM_T1	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
1/10/2025 8:30	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:30	11405	FARM_T1	4	17	13	0.13	0.14	0.01	0	0	0	0	0	0	0	0
1/10/2025 8:30	11201	ELHE_T2	0	0	0	0	0	0	-0.15	-0.01	2	2	0	2400	2400	0
1/10/2025 8:30	58705	ROSE_T2	5	5	0	1.42	1.82	0.4	0	0	0	0	0	0	0	0
1/10/2025 8:30	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/10/2025 8:30	11403	FARM_T1	0	0	0	0	0	0	-0.02	-0.06	1	1	0	600	600	0
1/10/2025 8:30	24102	EHAZ_T1	8	14	6	0.76	0.73	-0.03	0	0	0	0	0	0	0	0
1/10/2025 8:31	48902	FOSP_T2	0	0	0	0	0	0	0.91	0.86	0	0	0	0	0	0
1/10/2025 8:31	48901	FOSP_T2	0	0	0	0	0	0	0.06	0.12	1	1	0	600	600	0
1/10/2025 8:31	23901	EFMO_T2	0	1	1	0	0	0	-1.01	-1	0	0	0	0	0	0
1/10/2025 8:31	64203	KINZ_T1	0	0	0	0	0	0	-1.52	-1.69	3	3	0	2100	2100	0
1/10/2025 8:31	40801	EXCH_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/10/2025 8:31	24105	EHAZ_T1	12	16	4	2.43	1.88	-0.55	0	0	0	0	0	0	0	0
1/10/2025 8:31	40802	EXCH_T2	0	0	0	0	0	0	-0.38	-0.5	0	0	0	0	0	0
1/10/2025 8:31	24103	EHAZ_T1	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
1/10/2025 8:31	24101	EHAZ_T1	106	128	22	1.52	1.31	-0.21	0	0	0	0	0	0	0	0
1/10/2025 8:31	24102	EHAZ_T1	8	14	6	0.76	0.73	-0.03	-0.34	-0.39	0	0	0	0	0	0
1/10/2025 8:31	54505	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/10/2025 8:31	64702	LITI_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
1/10/2025 8:31	23902	EFMO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:31	64204	KINZ_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
1/10/2025 8:31	64603	LEOL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:31	54503	ENOL_T2	0	0	0	0	0	0	-0.98	-0.98	1	1	0	600	600	0
1/10/2025 8:31	20601	GRWO_T2	12	38	26	0.43	0.51	0.08	0	0	0	0	0	0	0	0
1/10/2025 8:31	24104	EHAZ_T1	0	0	0	0	0	0	-2.13	-2.15	1	1	0	1200	1200	0
1/10/2025 8:31	64601	LEOL_T1	0	0	0	0	0	0	-1.48	-1.58	1	1	0	1200	1200	0
1/10/2025 8:31	20603	GRWO_T2	0	0	0	0	0	0	-0.43	-0.45	1	1	0	900	900	0
1/10/2025 8:32	58702	ROSE_T2	0	0	0	0	0	0	-1.42	-1.38	0	0	0	0	0	0
1/10/2025 8:32	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:32	11406	FARM_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
1/10/2025 8:32	54503	ENOL_T2	0	0	0	0	0	0	-0.98	-0.98	1	1	0	600	600	0
1/10/2025 8:32	11202	ELHE_T2	0	0	0	0	0	0	0.47	0.47	1	1	0	1200	1200	0
1/10/2025 8:32	11407	FARM_T1	0	0	0	0	0	0	-2	-1.96	0	0	0	0	0	0
1/10/2025 8:32	41202	KENM_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
1/10/2025 8:32	11401	FARM_T1	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
1/10/2025 8:32	64204	KINZ_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
1/10/2025 8:32	63802	HEMP_T1	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
1/10/2025 8:32	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:32	51604	DUKE_T2	0	0	0	0	0	0	-2.47	-2.45	1	1	0	900	900	0
1/10/2025 8:32	66302	MCGO_T2	0	0	0	0	0	0	-1.03	-0.99	1	1	0	600	600	0
1/10/2025 8:32	58706	ROSE_T2	1	1	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
1/10/2025 8:32	12006	HATF_T1	2	2	0	1.75	1.95	0.2	0	0	0	0	0	0	0	0
1/10/2025 8:32	11405	FARM_T1	4	17	13	0.13	0.14	0.01	0	0	0	0	0	0	0	0
1/10/2025 8:32	11201	ELHE_T2	0	0	0	0	0	0	-0.15	-0.01	2	2	0	2400	2400	0
1/10/2025 8:32	58701	ROSE_T2	0	0	0	0	0	0	-1.49	-1.54	1	1	0	600	600	0
1/10/2025 8:32	58705	ROSE_T2	5	5	0	1.42	1.82	0.4	0	0	0	0	0	0	0	0
1/10/2025 8:32	12001	HATF_T1	1	1	0	3.4	2.9	-0.5	0.7	0.86	1	1	0	600	600	0
1/10/2025 8:32	13501	MCMI_T2	2	2	0	1.3	1	-0.3	0.5	0.47	0	0	0	0	0	0
1/10/2025 8:32	12002	HATF_T1	0	0	0	0	0	0	-1.19	-1.11	2	2	0	2400	2400	0
1/10/2025 8:32	54505	ENOL_T2	0	1	1	0	0.3	0.3	-0.98	-0.99	1	1	0	600	600	0
1/10/2025 8:32	63804	HEMP_T1	1	1	0	7.1	6.9	-0.2	0	0	0	0	0	0	0	0
1/10/2025 8:33	64702	LITI_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
1/10/2025 8:33	64203	KINZ_T1	0	0	0	0	0	0	-1.52	-1.69	3	3	0	2100	2100	0
1/10/2025 8:33	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:33	15601	NSTR_T2	11	6	-5	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
1/10/2025 8:33	55002	NEWP_T1	5	5	0	0.42	0.74	0.32	-0.11	-0.11	0	0	0	0	0	0
1/10/2025 8:33	51604	DUKE_T2	0	0	0	0	0	0	-2.47	-2.45	1	1	0	900	900	0
1/10/2025 8:33	64204	KINZ_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
1/10/2025 8:33	42401	GIMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:33	48902	FOSP_T2	0	0	0	0	0	0	0.91	0.86	0	0	0	0	0	0
1/10/2025 8:33	15603	NSTR_T2	0	0	0	0	0	0	-0.94	-0.97	0	0	0	0	0	0
1/10/2025 8:34	52502	PROG_T2	0	0	0	0	0	0	-0.2	-0.25	1	1	0	900	900	0
1/10/2025 8:34	64702	LITI_T2	0	0	0	0	0	0	-1.4	-1.36	0	0	0	0	0	0
1/10/2025 8:34	64204	KINZ_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
1/10/2025 8:34	12006	HATF_T1	2	2	0	1.75	1.95	0.2	0	0	0	0	0	0	0	0
1/10/2025 8:34	12001	HATF_T1	1	1	0	3.4	2.9	-0.5	0.7	0.86	1	1	0	600	600	0
1/10/2025 8:34	24105	EHAZ_T1	12	16	4	2.43	1.88	-0.55	0	0	0	0	0	0	0	0
1/10/2025 8:34	64201	KINZ_T1	0	0	0	0	0	0	-1.74	-1.67	8	8	0	4200	4200	0
1/10/2025 8:34	24103	EHAZ_T1	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
1/10/2025 8:34	41202	KENM_T2	1	0	-1	0.9	0	-0.9	-0.22	-0.26	0	0	0	0	0	0
1/10/2025 8:34	24102	EHAZ_T1	8	14	6	0.76	0.73	-0.03	0	0	0	0	0	0	0	0
1/10/2025 8:34	24101	EHAZ_T1	106	128	22	1.52	1.31	-0.21	0	0	0	0	0	0	0	0
1/10/2025 8:35	64203	KINZ_T1	0	0	0	0	0	0	-1.52	-1.69	3	3	0	2100	2100	0
1/10/2025 8:35	64204	KINZ_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
1/10/2025 8:35	41202	KENM_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
1/10/2025 8:35	41205	KENM_T2	0	0	0	0	0	0	-0.75	-0.74	1	1	0	600	600	0
1/10/2025 8:35	41901	REED_T1	6	8	2	0.72	0.94	0.22	0	0	0	0	0	0	0	0
1/10/2025 8:35	41903	REED_T1	0	0	0	0	0	0	0.06	0.06	1	1	0	1200	1200	0
1/10/2025 8:35	41902	REED_T1	3	5	2	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
1/10/2025 8:35	52502	PROG_T2	0	0	0	0	0	0	-0.2	-0.25	1	1	0	900	900	0
1/10/2025 8:36	64702	LITI_T2	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
1/10/2025 8:37	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:37	40501	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:37	40502	CRES_T2	6	3	-3	0.25	0.23	-0.02	-0.38	-0.41	0	0	0	0	0	0
1/10/2025 8:38	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:39	44901	SCOT_T2	28	45	17	0.2	0.23	0.03	0.2	0.17	0	0	0	0	0	0
1/10/2025 8:39	44902	SCOT_T2	492	567	75	0.59	0.63	0.04	0	0	0	0	0	0	0	0
1/10/2025 8:40	44301	BEAV_T2	1	1	0	0.3	0	-0.3	-0.02	-0.53	2	2	0	1500	1500	0
1/10/2025 8:42	44301	BEAV_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/10/2025 8:43	62606	ENGL_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
1/10/2025 8:43	62605	ENGL_T1	0	0	0	0	0	0	-1.13	-1.16	0	0	0	0	0	0
1/10/2025 8:44	62605	ENGL_T1	0	0	0	0	0	0	-1.13	-1.16	0	0	0	0	0	0
1/10/2025 8:44	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:44	62606	ENGL_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
1/10/2025 8:44	53502	EVIL_T2	1	15	14	2.3	1.6	-0.7	0.31	0.4	2	2	0	1200	1200	0
1/10/2025 8:44	21501	CEAV_T2	1	1	0	0	0	0	-0.18	-0.13	1	1	0	1200	1200	0
1/10/2025 8:44	15202	SFAR_T1	0	0	0	0	0	0	-0.4	-0.47	0	0	0	0	0	0
1/10/2025 8:44	53501	EVIL_T2	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
1/10/2025 8:46	13503	MCMI_T2	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
1/10/2025 8:46	48902	FOSP_T2	0	0	0	0	0	0	0.86	0.87	0	0	0	0	0	0
1/10/2025 8:47	46602	LACR_T1	13	16	3	0.15	0.16	0.01	-0.82	-0.79	0	0	0	0	0	0
1/10/2025 8:48	16902	MECK_T1	78	87	9	0.74	0.73	-0.01	-3.03	-2.97	0	0	0	0	0	0
1/10/2025 8:49	55002	NEWP_T1	5	7	2	0.44	0.76	0.32	-0.11	-0.17	0	0	0	0	0	0
1/10/2025 8:51	41902	REED_T1	5	2	-3	0.42	0	-0.42	0.49	0.48	1	1	0	900	900	0
1/10/2025 8:51	41901	REED_T1	7	8	1	0.79	0.94	0.15	0	0	0	0	0	0	0	0
1/10/2025 8:53	59101	WALK_T2	1	1	0	1.9	1	-0.9	1.17	0.99	1	1	0	600	600	0
1/10/2025 8:56	11101	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:56	11104	EGYP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:58	61701	ELIZ_T1	1	2	1	6.8	3.5	-3.3	0	0	0	0	0	0	0	0
1/10/2025 8:58	11101	EGYP_T1	0	0	0	0	0	0	-0.53	-0.56	1	1	0	1200	1200	0
1/10/2025 8:58	61703	ELIZ_T1	15	60	45	0.21	0.25	0.04	-0.92	-0.87	1	1	0	900	900	0
1/10/2025 8:58	11104	EGYP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 8:59	53501	EVIL_T2	1	7	6	1.3	0.8	-0.5	-1.66	-1.71	3	3	0	1800	1800	0
1/10/2025 8:59	53502	EVIL_T2	2	15	13	1.6	0.66	-0.94	0	0	0	0	0	0	0	0
1/10/2025 9:00	63501	HEID_TBK1-2	57	99	42	0.32	0.43	0.11	-0.21	-0.2	1	1	0	900	900	0
1/10/2025 9:00	28102	TWLA_T2	0	1	1	0	0	0	0.28	0.27	0	0	0	0	0	0
1/10/2025 9:00	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/10/2025 9:00	53502	EVIL_T2	15	13	-2	0.65	1.2	0.55	0	0	0	0	0	0	0	0
1/10/2025 9:00	15603	NSTR_T2	0	0	0	0	0	0	-1	-0.97	0	0	0	0	0	0
1/10/2025 9:00	61701	ELIZ_T1	2	2	0	3.5	3.55	0.05	0	0	0	0	0	0	0	0
1/10/2025 9:00	52502	PROG_T2	0	0	0	0	0	0	0.69	0.66	0	0	0	0	0	0
1/10/2025 9:00	40503	CRES_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.29	0.25	0	0	0	0	0	0
1/10/2025 9:00	61703	ELIZ_T1	57	58	1	0.24	0.24	0	-0.92	-0.87	1	1	0	900	900	0
1/10/2025 9:00	15601	NSTR_T2	5	6	1	0.18	0	-0.18	0	0	0	0	0	0	0	0
1/10/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
1/10/2025 9:00	53501	EVIL_T2	1	2	1	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
1/10/2025 9:00	54506	ENOL_T2	0	0	0	0	0	0	0.34	0.34	0	1	1	0	600	600
1/10/2025 9:01	53903	HALI_T2	2	2	0	0.35	1.25	0.9	0	0	0	0	0	0	0	0
1/10/2025 9:01	53901	HALI_T2	2	1	-1	1.45	0.7	-0.75	-1.26	-1.23	0	0	0	0	0	0
1/10/2025 9:01	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
1/10/2025 9:05	55101	WERT_T1	0	0	0	0	0	0	-1.11	-1.27	2	2	0	1500	1500	0
1/10/2025 9:08	49804	UNIV_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
1/10/2025 9:08	49803	UNIV_T1	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
1/10/2025 9:10	15103	WPHA_T2	0	0	0	0	0	0	-0.77	-0.8	0	0	0	0	0	0
1/10/2025 9:10	16102	BING_T2	1	1	0	1.6	3.7	2.1	0	0	0	0	0	0	0	0
1/10/2025 9:10	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 9:10	13704	SCHN_T2	0	0	0	0	0	0	-0.7	-0.66	0	0	0	0	0	0
1/10/2025 9:14	23401	HONE_T2	4	6	2	0.43	0.5	0.07	-0.07	0.02	0	0	0	0	0	0
1/10/2025 9:15	22803	HAUT_T2	15	41	26	1.41	1.36	-0.05	0	0	0	0	0	0	0	0
1/10/2025 9:15	26704	HEML_T2	1	1	0	0.1	0.6	0.5	-0.29	-0.31	0	0	0	0	0	0
1/10/2025 9:15	22805	HAUT_T2	20	31	11	1.3	1.44	0.14	-1.26	-1.29	1	1	0	1200	1200	0
1/10/2025 9:16	63501	HEID_TBK1-2	99	15	-84	0.43	0.31	-0.12	0	0	0	0	0	0	0	0
1/10/2025 9:17	63501	HEID_TBK1-2	99	15	-84	0.43	0.31	-0.12	-0.2	-0.26	1	1	0	900	900	0
1/10/2025 9:18	63501	HEID_TBK1-2	99	15	-84	0.43	0.31	-0.12	-0.2	-0.26	1	1	0	900	900	0
1/10/2025 9:18	65502	MOJO_T2	7	0	-7	0.11	0	-0.11	-0.22	-0.42	0	0	0	0	0	0
1/10/2025 9:18	65503	MOJO_T2	13	0	-13	0.11	0	-0.11	0	0	0	0	0	0	0	0
1/10/2025 9:18	52401	GRPA_T2	3	4	1	0.43	0.5	0.07	0	0	0	0	0	0	0	0
1/10/2025 9:18	52403	GRPA_T2	5	6	1	0.34	0.2	-0.14	0	0	0	0	0	0	0	0
1/10/2025 9:18	52402	GRPA_T2	3	4	1	0.27	0.3	0.03	-0.64	-0.69	0	0	0	0	0	0
1/10/2025 9:18	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 9:19	63501	HEID_TBK1-2	99	15	-84	0.43	0.31	-0.12	-0.2	-0.26	1	1	0	900	900	0
1/10/2025 9:19	26401	INOR_T1	41	10	-31	0.65	2.38	1.73	0	0	0	0	0	0	0	0
1/10/2025 9:19	65502	MOJO_T2	7	0	-7	0.11	0	-0.11	0	0	0	0	0	0	0	0
1/10/2025 9:19	65503	MOJO_T2	13	0	-13	0.11	0	-0.11	0	0	0	0	0	0	0	0
1/10/2025 9:20	63501	HEID_TBK1-2	99	15	-84	0.43	0.31	-0.12	-0.4	-0.52	2	2	0	1800	1800	0
1/10/2025 9:21	64101	REFR_T1	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
1/10/2025 9:21	24202	PROV_T4	0	0	0	0	0	0	-0.7	-0.72	1	1	0	1200	1200	0
1/10/2025 9:22	65502	MOJO_T2	7	0	-7	0.11	0	-0.11	-0.42	-0.31	0	0	0	0	0	0
1/10/2025 9:22	57205	ROSS_T1	0	40	40	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 9:22	57201	ROSS_T1	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
1/10/2025 9:22	65503	MOJO_T2	13	0	-13	0.11	0	-0.11	0	0	0	0	0	0	0	0
1/10/2025 9:23	41901	REED_T1	8	8	0	0.79	0.91	0.12	0	0	0	0	0	0	0	0
1/10/2025 9:23	57205	ROSS_T1	0	40	40	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 9:23	64101	REFR_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
1/10/2025 9:23	41902	REED_T1	0	0	0	0	0	0	0.54	0.48	1	1	0	900	900	0
1/10/2025 9:23	57201	ROSS_T1	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
1/10/2025 9:24	13701	SCHN_T2	0	0	0	0	0	0	0.11	0.12	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/10/2025 9:24	64101	REFR_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
1/10/2025 9:26	64101	REFR_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
1/10/2025 9:29	64101	REFR_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
1/10/2025 9:29	53901	HALI_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
1/10/2025 9:29	53902	HALI_T2	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
1/10/2025 9:29	53903	HALI_T2	2	2	0	1.25	1.2	-0.05	-0.15	-0.15	0	0	0	0	0	0
1/10/2025 9:30	64101	REFR_T1	0	2	2	0	0	0	0.14	0.14	0	0	0	0	0	0
1/10/2025 9:31	53501	EVIL_T2	2	2	0	0.2	0.55	0.35	-1.16	-1.21	2	2	0	1200	1200	0
1/10/2025 9:31	53502	EVIL_T2	2	13	11	1.2	0.36	-0.84	0	0	0	0	0	0	0	0
1/10/2025 9:31	65401	MARI_T1	1	0	-1	4.9	0	-4.9	0	0	0	0	0	0	0	0
1/10/2025 9:32	65401	MARI_T1	1	0	-1	4.9	0	-4.9	-0.14	-0.09	0	0	0	0	0	0
1/10/2025 9:32	11301	EMMA_T1	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
1/10/2025 9:34	64204	KINZ_T1	2	2	0	0.25	0.65	0.4	0	0	0	0	0	0	0	0
1/10/2025 9:34	64202	KINZ_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 9:34	65401	MARI_T1	1	0	-1	4.9	0	-4.9	0	0	0	0	0	0	0	0
1/10/2025 9:34	64203	KINZ_T1	0	0	0	0	0	0	-1.05	-1.01	2	2	0	1800	1800	0
1/10/2025 9:35	65401	MARI_T1	1	0	-1	4.9	0	-4.9	-0.14	-0.09	0	0	0	0	0	0
1/10/2025 9:35	57205	ROSS_T1	0	83	83	0	0.12	0.12	-1.34	-1.37	0	0	0	0	0	0
1/10/2025 9:37	67604	WARW_T1	0	0	0	0	0	0	0.9	0.92	0	0	0	0	0	0
1/10/2025 9:38	63501	HEID_TBK1-2	15	8	-7	0.31	0.23	-0.08	-0.29	-0.24	1	1	0	900	900	0
1/10/2025 9:40	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 9:40	13702	SOHN_T1	0	0	0	0	0	0	1.43	1.4	0	0	0	0	0	0
1/10/2025 9:41	44501	DERR_T2	1	0	-1	0.1	0	-0.1	0.47	0.39	2	2	0	1800	1800	0
1/10/2025 9:43	29402	BELT_T1	1	2	1	5.6	5.8	0.2	0	0	0	0	0	0	0	0
1/10/2025 9:43	54504	ENOL_T2	0	0	0	0	0	0	-0.91	-0.93	1	1	0	600	600	0
1/10/2025 9:43	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/10/2025 9:44	65503	MOJO_T2	0	1	1	0	0	0	-1.3	-1.27	1	1	0	900	900	0
1/10/2025 9:46	44501	DERR_T2	0	1	1	0	0	0	0.47	0.39	2	2	0	1800	1800	0
1/10/2025 9:50	58202	NEWV_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
1/10/2025 9:51	58202	NEWV_T1	0	0	0	0	0	0	-0.04	0	0	0	0	0	0	0
1/10/2025 9:55	44302	BEAV_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
1/10/2025 9:55	44301	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/10/2025 9:56	46206	DANV_T2	26	14	-12	0.52	4.31	3.79	2.7	2.58	1	1	0	1200	1200	0
1/10/2025 9:56	44501	DERR_T2	0	1	1	0	0	0	0.39	0.39	2	2	0	1800	1800	0
1/10/2025 9:56	46204	DANV_T2	14	0	-14	0.27	0	-0.27	0	0	0	0	0	0	0	0
1/10/2025 9:56	46203	DANV_T2	10	18	8	0.69	0.75	0.06	-1.29	-1.32	0	0	0	0	0	0
1/10/2025 9:56	40201	BEGA_T2	2	4	2	1.55	0.8	-0.75	0	0	0	0	0	0	0	0
1/10/2025 9:57	46204	DANV_T2	14	0	-14	0.27	0	-0.27	0	0	0	0	0	0	0	0
1/10/2025 9:57	46203	DANV_T2	10	18	8	0.69	0.75	0.06	-1.29	-1.32	0	0	0	0	0	0
1/10/2025 9:57	44801	EDAN_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
1/10/2025 9:57	46206	DANV_T2	26	14	-12	0.52	4.31	3.79	2.7	2.58	1	1	0	1200	1200	0
1/10/2025 9:58	11104	EGYP_T1	2	1	-1	0.25	0.7	0.45	0.51	0.45	0	0	0	0	0	0
1/10/2025 9:58	11101	EGYP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/10/2025 10:00	11104	EGYP_T1	1	1	0	0.7	0.4	-0.3	0.51	0.45	0	0	0	0	0	0
1/10/2025 10:00	29402	BELT_T1	1	1	0	5.8	6.3	0.5	0	0	0	0	0	0	0	0
1/10/2025 10:00	11101	EGYP_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/10/2025 10:00	46206	DANV_T2	12	11	-1	3.42	0	-3.42	2.7	2.58	1	1	0	1200	1200	0
1/10/2025 10:00	46203	DANV_T2	10	32	22	0.82	0.62	-0.2	-1.29	-1.32	0	0	0	0	0	0
1/10/2025 10:00	65503	MOJO_T2	0	0	0	0	0	0	-1.27	-1.27	1	1	0	900	900	0
1/10/2025 10:04	55002	NEWP_T1	6	7	1	0.97	0.74	-0.23	-0.16	-0.11	0	0	0	0	0	0
1/10/2025 10:04	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 10:04	14603	SWHI_T1	0	0	0	0	0	0	-1.53	-1.57	2	2	0	1200	1200	0
1/10/2025 10:05	41902	REED_T1	0	4	4	0	0	0	0.46	0.42	1	1	0	900	900	0
1/10/2025 10:05	41901	REED_T1	9	9	0	0.88	1.24	0.36	0	0	0	0	0	0	0	0
1/10/2025 10:05	64101	REFR_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
1/10/2025 10:05	55002	NEWP_T1	6	7	1	0.97	0.74	-0.23	-0.16	-0.11	0	0	0	0	0	0
1/10/2025 10:06	44801	EDAN_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
1/10/2025 10:06	14603	SWHI_T1	0	0	0	0	0	0	-1.57	-1.55	2	2	0	1200	1200	0
1/10/2025 10:06	55002	NEWP_T1	6	7	1	0.97	0.74	-0.23	-0.22	-0.3	0	0	0	0	0	0
1/10/2025 10:06	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 10:06	64101	REFR_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
1/10/2025 10:08	14604	SWHI_T1	0	0	0	0	0	0	0.01	-0.01	1	1	0	900	900	0
1/10/2025 10:08	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 10:08	64101	REFR_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
1/10/2025 10:10	14603	SWHI_T1	0	0	0	0	0	0	-1.57	-1.55	2	2	0	1200	1200	0
1/10/2025 10:10	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 10:12	40801	EXCH_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/10/2025 10:12	40802	EXCH_T2	0	1	1	0	0.6	0.6	-0.07	0.07	0	0	0	0	0	0
1/10/2025 10:13	46004	BERW_T2	1	4	3	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
1/10/2025 10:13	46002	BERW_T2	0	0	0	0	0	0	-0.57	-0.55	1	1	0	900	900	0
1/10/2025 10:14	29402	BELT_T1	1	1	0	5.8	6.3	0.5	0	0	0	0	0	0	0	0
1/10/2025 10:14	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/10/2025 10:15	40801	EXCH_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/10/2025 10:15	40802	EXCH_T2	1	1	0	0.6	0.3	-0.3	-0.07	0.07	0	0	0	0	0	0
1/10/2025 10:16	64204	KINZ_T1	3	3	0	0.47	0.37	-0.1	0	0	0	0	0	0	0	0
1/10/2025 10:16	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 10:16	64202	KINZ_T1	0	7	7	0	0.35	0.35	0	0	0	0	0	0	0	0
1/10/2025 10:19	51204	MTON_T2	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
1/10/2025 10:22	13302	ORVI_T2	0	0	0	0	0	0	1.59	1.57	0	0	0	0	0	0
1/10/2025 10:24	64101	REFR_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
1/10/2025 10:24	13704	SOHN_T2	2	3	1	0.1	0.1	0	-0.81	-0.79	0	0	0	0	0	0
1/10/2025 10:28	40702	FFLD_T1	0	1	1	0	0.1	0.1	-0.4	-0.38	0	0	0	0	0	0
1/10/2025 10:28	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 10:28	40701	FFLD_T1	10	17	7	0.11	0.19	0.08	0	0	0	0	0	0	0	0
1/10/2025 10:31	61001	DONV_T1	1	1	0	0.2	0.8	0.6	-0.21	-0.22	0	0	0	0	0	0
1/10/2025 10:40	60201	ATGL_T2	40	18	-22	0.27	0.3	0.03	0.15	0.16	0	0	0	0	0	0
1/10/2025 10:40	40201	BEGA_T2	3	3	0	0.67	0.95	0.28	0	0	0	0	0	0	0	0
1/10/2025 10:40	44302	BEAV_T2	2	6	4	0.2	0.35	0.15	0	0	0	0	0	0	0	0
1/10/2025 10:40	10801	OHHI_T1	3	2	-1	0.33	0.4	0.07	-1.16	-1.17	2	0	-2	1500	0	-1500
1/10/2025 10:40	44301	BEAV_T2	0	0	0	0	0	0	-0.12	-0.06	1	1	0	600	600	0
1/10/2025 10:40	64101	REFR_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
1/10/2025 10:42	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 10:42	62106	ELAN_T1	0	0	0	0	0	0	0.45	0.41	0	0	0	0	0	0
1/10/2025 10:42	10801	OHHI_T1	3	2	-1	0.33	0.4	0.07	-1.16	-1.17	2	0	-2	1500	0	-1500
1/10/2025 10:43	53501	EVIL_T2	2	2	0	0.8	0.95	0.15	-1.22	-1.21	2	0	-2	1200	0	-1200
1/10/2025 10:43	53502	EVIL_T2	12	1	-11	1.37	1	-0.37	0	0	0	0	0	0	0	0
1/10/2025 10:43	44502	HAMI_T2	2	1	-1	1.95	2.7	0.75	0.06	0.05	0	0	0	0	0	0
1/10/2025 10:43	44505	HAMI_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
1/10/2025 10:44	53501	EVIL_T2	2	2	0	0.8	0.95	0.15	-2.44	-2.42	4	0	-4	2400	0	-2400
1/10/2025 10:44	53502	EVIL_T2	12	1	-11	1.37	1	-0.37	0	0	0	0	0	0	0	0
1/10/2025 10:45	44502	HAMI_T2	1	1	0	2.7	2.9	0.2	0.06	0.05	0	0	0	0	0	0
1/10/2025 10:45	53502	EVIL_T2	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
1/10/2025 10:45	44505	HAMI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 10:45	53501	EVIL_T2	2	1	-1	0.95	1.4	0.45	-1.22	-1.21	2	0	-2	1200	0	-1200
1/10/2025 10:46	44505	HAMI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 10:46	53501	EVIL_T2	2	1	-1	0.95	1.4	0.45	-1.22	-1.21	2	0	-2	1200	0	-1200
1/10/2025 10:46	53502	EVIL_T2	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
1/10/2025 10:46	44502	HAMI_T2	1	1	0	2.7	2.9	0.2	0.06	0.05	0	0	0	0	0	0
1/10/2025 10:47	13503	MCMI_T2	3	1	-2	0.43	0	-0.43	0.41	0.42	0	0	0	0	0	0
1/10/2025 10:48	13502	MCMI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/10/2025 10:48	46602	LACR_T1	12	21	9	0.28	0.25	-0.03	-0.87	-0.89	0	0	0	0	0	0
1/10/2025 10:51	64101	REFR_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
1/10/2025 10:51	52502	PROG_T2	1	2	1	0.4	0.4	0	-0.39	-0.36	1	1	0	900	900	0
1/10/2025 10:52	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 10:52	64904	MILL_T1	0	0	0	0	0	0	-0.23	-0.19	0	0	0	0	0	0
1/10/2025 10:52	64901	MILL_T1	0	13	13	0	0.12	0.12	0	0	0	0	0	0	0	0
1/10/2025 10:53	43304	WATS_T2	0	1	1	0	0	0	0.05	0.14	0	0	0	0	0	0
1/10/2025 10:53	52502	PROG_T2	1	2	1	0.4	0.4	0	-0.39	-0.36	1	1	0	900	900	0
1/10/2025 10:53	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 10:55	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 10:55	64101	REFR_T1	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
1/10/2025 10:55	43304	WATS_T2	0	1	1	0	0	0	0.05	0.14	0	0	0	0	0	0
1/10/2025 10:55	55103	WERT_T1	1	1	0	7.1	6.7	-0.4	0	0	0	0	0	0	0	0
1/10/2025 10:55	55101	WERT_T1	0	0	0	0	0	0	-1.32	-1.3	2	2	0	1500	1500	0
1/10/2025 10:56	55105	WERT_T1	0	0	0	0	0	0	-0.39	-0.4	1	1	0	900	900	0
1/10/2025 10:56	55103	WERT_T1	1	1	0	7.1	6.7	-0.4	0	0	0	0	0	0	0	0
1/10/2025 10:56	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 10:57	55101	WERT_T1	0	0	0	0	0	0	-1.32	-1.3	2	2	0	1500	1500	0
1/10/2025 10:57	43304	WATS_T2	0	1	1	0	0	0	0.1	0.27	0	0	0	0	0	0
1/10/2025 10:57	46206	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/10/2025 10:57	55103	WERT_T1	1	1	0	7.1	6.7	-0.4	0	0	0	0	0	0	0	0
1/10/2025 10:57	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 10:57	46203	DANV_T2	33	43	10	0.7	0.59	-0.11	-1.38	-0.48	0	0	0	0	0	0
1/10/2025 10:58	46206	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/10/2025 10:58	46203	DANV_T2	33	43	10	0.7	0.59	-0.11	-1.38	-0.48	0	0	0	0	0	0
1/10/2025 10:59	46203	DANV_T2	33	43	10	0.7	0.59	-0.11	-1.38	-0.48	0	0	0	0	0	0
1/10/2025 10:59	46206	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/10/2025 10:59	52401	GRPA_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
1/10/2025 10:59	52402	GRPA_T2	6	5	-1	0.45	0.86	0.41	0	0	0	0	0	0	0	0
1/10/2025 10:59	52403	GRPA_T2	19	221	202	0.63	0.69	0.06	-0.4	-0.45	0	0	0	0	0	0
1/10/2025 11:00	46203	DANV_T2	43	0	-43	0.59	0	-0.59	-1.38	-0.48	0	0	0	0	0	0
1/10/2025 11:01	52403	GRPA_T2	210	147	-63	0.68	0.62	-0.06	-0.4	-0.45	0	0	0	0	0	0
1/10/2025 11:01	52401	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/10/2025 11:01	52402	GRPA_T2	5	7	2	0.58	0.92	0.34	0	0	0	0	0	0	0	0
1/10/2025 11:02	52401	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/10/2025 11:02	52402	GRPA_T2	5	7	2	0.58	0.92	0.34	0	0	0	0	0	0	0	0
1/10/2025 11:02	52403	GRPA_T2	210	147	-63	0.68	0.62	-0.06	-0.4	-0.45	0	0	0	0	0	0
1/10/2025 11:03	52004	LING_T2	2	2	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
1/10/2025 11:03	46004	BERW_T2	4	2	-2	0.35	0.1	-0.25	-0.63	-0.62	0	0	0	0	0	0
1/10/2025 11:04	52401	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/10/2025 11:04	20601	GRWO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 11:04	52402	GRPA_T2	5	7	2	0.58	0.92	0.34	0	0	0	0	0	0	0	0
1/10/2025 11:04	20603	GRWO_T2	3	4	1	0.2	0.15	-0.05	0.53	0.49	0	0	0	0	0	0
1/10/2025 11:04	52403	GRPA_T2	210	147	-63	0.68	0.62	-0.06	-0.4	-0.45	0	0	0	0	0	0
1/10/2025 11:06	64101	REFR_T1	0	1	1	0	0.3	0.3	0.04	0.06	0	0	0	0	0	0
1/10/2025 11:07	41901	REED_T1	9	10	1	0.86	1.18	0.32	0	0	0	0	0	0	0	0
1/10/2025 11:07	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 11:08	41901	REED_T1	9	10	1	0.86	1.18	0.32	0	0	0	0	0	0	0	0
1/10/2025 11:08	41902	REED_T1	0	0	0	0	0	0	0.42	0.39	1	1	0	900	900	0
1/10/2025 11:14	10805	OHHI_T2	1	1	0	7.3	7	-0.3	-0.84	-0.78	1	1	0	600	600	0
1/10/2025 11:14	46802	HEPB_T1	55	44	-11	0.24	0.22	-0.02	-1.1	-1.11	0	0	0	0	0	0
1/10/2025 11:14	10801	OHHI_T1	2	7	5	0.4	0.51	0.11	-1.17	-1.18	0	0	0	0	0	0
1/10/2025 11:16	47203	FAXO_T2	1	1	0	0.7	0.3	-0.4	-1.02	-1	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/10/2025 11:18	60504	NMAN_T2	2	3	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
1/10/2025 11:18	60502	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/10/2025 11:18	60501	NMAN_T2	4	35	31	0.2	0.23	0.03	0	0	0	0	0	0	0	0
1/10/2025 11:19	64802	MONE_T2	2	5	3	0.1	0.14	0.04	0	0	0	0	0	0	0	0
1/10/2025 11:19	64801	MONE_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/10/2025 11:20	60502	NMAN_T2	0	1	1	0	0.2	0.2	-0.21	-0.09	0	0	0	0	0	0
1/10/2025 11:20	60501	NMAN_T2	4	35	31	0.2	0.23	0.03	0	0	0	0	0	0	0	0
1/10/2025 11:20	63501	HEID_TBK1-2	74	104	30	0.44	0.33	-0.11	-0.36	-0.19	1	1	0	900	900	0
1/10/2025 11:20	64801	MONE_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/10/2025 11:20	64802	MONE_T2	2	5	3	0.1	0.14	0.04	0.24	0.23	0	0	0	0	0	0
1/10/2025 11:20	60504	NMAN_T2	2	3	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
1/10/2025 11:21	64101	REFR_T1	0	1	1	0	0.3	0.3	0.06	0.05	0	0	0	0	0	0
1/10/2025 11:22	60502	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/10/2025 11:22	60504	NMAN_T2	2	3	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
1/10/2025 11:22	60501	NMAN_T2	4	35	31	0.2	0.23	0.03	0	0	0	0	0	0	0	0
1/10/2025 11:23	43304	WATS_T2	1	2	1	0.5	0	-0.5	0.18	0.18	0	0	0	0	0	0
1/10/2025 11:24	67402	WAKE_T2	0	0	0	0	0	0	0.96	1	0	0	0	0	0	0
1/10/2025 11:25	43304	WATS_T2	1	2	1	0.5	0	-0.5	0.09	0.09	0	0	0	0	0	0
1/10/2025 11:26	43304	WATS_T2	1	2	1	0.5	0	-0.5	0.09	0.09	0	0	0	0	0	0
1/10/2025 11:28	62106	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 11:28	62101	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/10/2025 11:28	62102	ELAN_T1	0	0	0	0	0	0	0.9	0.85	0	0	0	0	0	0
1/10/2025 11:35	63501	HEID_TBK1-2	50	155	105	0.29	0.37	0.08	-0.19	-0.21	1	1	0	900	900	0
1/10/2025 11:36	54601	SUMM_T2	3	3	0	0.2	0.33	0.13	-1.69	-1.74	2	2	0	2100	2100	0
1/10/2025 11:38	64101	REFR_T1	1	0	-1	0.3	0	-0.3	0.03	-0.01	0	0	0	0	0	0
1/10/2025 11:39	54603	SUMM_T2	0	0	0	0	0	0	-0.74	-0.74	2	2	0	1800	1800	0
1/10/2025 11:39	54601	SUMM_T2	3	3	0	0.2	0.33	0.13	0	0	0	0	0	0	0	0
1/10/2025 11:44	11904	ETEX_T2	0	1	1	0	0.4	0.4	-0.67	-0.68	0	0	0	0	0	0
1/10/2025 11:46	11901	ETEX_T2	0	0	0	0	0	0	0.37	0.41	0	0	0	0	0	0
1/10/2025 11:46	11904	ETEX_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/10/2025 11:48	52502	PROG_T2	9	3	-6	0.18	0.33	0.15	0	0	0	0	0	0	0	0
1/10/2025 11:51	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 11:58	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 11:58	62101	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/10/2025 11:58	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 11:58	62106	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/10/2025 11:58	62105	ELAN_T1	0	2	2	0	0.1	0.1	0.51	0.52	0	0	0	0	0	0
1/10/2025 12:01	62101	ELAN_T1	1	3	2	0.2	2.5	2.3	0	0	0	0	0	0	0	0
1/10/2025 12:01	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 12:01	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 12:01	62105	ELAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 12:01	62106	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/10/2025 12:05	62101	ELAN_T1	1	3	2	0.2	2.5	2.3	0	0	0	0	0	0	0	0
1/10/2025 12:05	62105	ELAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 12:05	62106	ELAN_T1	1	0	-1	0.2	0.1	-0.1	0.43	0.41	0	0	0	0	0	0
1/10/2025 12:05	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 12:05	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 12:08	14801	TREI_T2	1	1	0	0.4	0.7	0.3	0.62	0.57	0	0	0	0	0	0
1/10/2025 12:10	15704	TANN_T1	98	109	11	1.36	1.81	0.45	0	0	0	0	0	0	0	0
1/10/2025 12:10	15701	TANN_T1	4	7	3	1.43	0.99	-0.44	0	0	0	0	0	0	0	0
1/10/2025 12:12	20403	ASHF_T2	2	1	-1	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
1/10/2025 12:12	60904	DONG_T2	2	1	-1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
1/10/2025 12:12	60902	DONG_T2	2	2	0	0.55	0.45	-0.1	0.62	0.61	0	0	0	0	0	0
1/10/2025 12:12	20402	ASHF_T2	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
1/10/2025 12:12	60901	DONG_T2	3	1	-2	0.47	0.8	0.33	0	0	0	0	0	0	0	0
1/10/2025 12:12	11303	EMMA_T1	4	7	3	0.2	0.41	0.21	0	0	0	0	0	0	0	0
1/10/2025 12:12	11301	EMMA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 12:12	11302	EMMA_T1	10	18	8	0.13	0.18	0.05	0	0	0	0	0	0	0	0
1/10/2025 12:12	20401	ASHF_T2	6	9	3	0.53	0.46	-0.07	-0.1	-0.28	0	0	0	0	0	0
1/10/2025 12:13	20402	ASHF_T2	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
1/10/2025 12:13	20403	ASHF_T2	2	1	-1	0.45	0.1	-0.35	0.35	0.26	0	0	0	0	0	0
1/10/2025 12:13	67402	WAKE_T2	0	0	0	0	0	0	1	0.95	0	0	0	0	0	0
1/10/2025 12:13	20401	ASHF_T2	6	9	3	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
1/10/2025 12:14	11301	EMMA_T1	0	1	1	0	0.1	0.1	-1.32	-1.43	0	0	0	0	0	0
1/10/2025 12:14	11302	EMMA_T1	10	18	8	0.13	0.18	0.05	0	0	0	0	0	0	0	0
1/10/2025 12:14	11303	EMMA_T1	4	7	3	0.2	0.41	0.21	0	0	0	0	0	0	0	0
1/10/2025 12:15	40101	HUNT_T2	135	269	134	0.77	0.74	-0.03	-1.55	-1.55	0	0	0	0	0	0
1/10/2025 12:15	66203	SISP_T2	0	0	0	0	0	0	-1.26	-1.28	2	2	0	1800	1800	0
1/10/2025 12:17	64305	LINC_T1	2	4	2	0.65	0.6	-0.05	-0.32	-0.33	0	0	0	0	0	0
1/10/2025 12:17	40101	HUNT_T2	135	269	134	0.77	0.74	-0.03	-1.55	-1.55	0	0	0	0	0	0
1/10/2025 12:18	11901	ETEX_T2	0	1	1	0	0.3	0.3	0.38	0.37	0	0	0	0	0	0
1/10/2025 12:18	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 12:18	11904	ETEX_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 12:20	65802	RTWN_T2	1	1	0	0.3	0.5	0.2	-0.16	-0.17	0	0	0	0	0	0
1/10/2025 12:30	46803	HEPB_T2	37	32	-5	0.23	0.25	0.02	0	0	0	0	0	0	0	0
1/10/2025 12:30	46801	HEPB_T2	39	43	4	0.42	0.36	-0.06	0.61	0.63	0	0	0	0	0	0
1/10/2025 12:31	46504	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/10/2025 12:31	63804	HEMP_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
1/10/2025 12:31	63803	HEMP_T1	5	2	-3	0.28	0.55	0.27	0.21	0.25	0	0	0	0	0	0
1/10/2025 12:31	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
1/10/2025 12:31	46501	LOHA_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
1/10/2025 12:31	46506	LOHA_T1	4	4	0	2.25	2.58	0.33	0	0	0	0	0	0	0	0
1/10/2025 12:31	46502	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 12:31	63801	HEMP_T1	2	1	-1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/10/2025 12:32	46506	LOHA_T1	4	4	0	2.25	2.58	0.33	0	0	0	0	0	0	0	0
1/10/2025 12:32	46501	LOHA_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
1/10/2025 12:32	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
1/10/2025 12:32	46502	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 12:32	46504	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/10/2025 12:32	41801	GOCI_T2	1	3	2	0.1	4.87	4.77	0	0	0	0	0	0	0	0
1/10/2025 12:34	52001	LING_T1	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
1/10/2025 12:34	46803	HEPB_T2	37	32	-5	0.23	0.25	0.02	0.51	0.54	0	0	0	0	0	0
1/10/2025 12:34	46801	HEPB_T2	39	43	4	0.42	0.36	-0.06	0	0	0	0	0	0	0	0
1/10/2025 12:35	52202	DEVO_T2	0	0	0	0	0	0	-2.36	-2.39	0	0	0	0	0	0
1/10/2025 12:35	44201	POIN_T1	203	126	-77	0.49	0.35	-0.14	-5.93	-5.85	6	6	0	6300	6300	0
1/10/2025 12:36	64802	MONE_T2	15	4	-11	0.18	0.23	0.05	0	0	0	0	0	0	0	0
1/10/2025 12:36	64801	MONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/10/2025 12:37	44201	POIN_T1	203	126	-77	0.49	0.35	-0.14	-1.95	-1.97	2	2	0	2100	2100	0
1/10/2025 12:38	44201	POIN_T1	203	126	-77	0.49	0.35	-0.14	-1.95	-1.97	2	2	0	2100	2100	0
1/10/2025 12:39	44201	POIN_T1	203	126	-77	0.49	0.35	-0.14	-1.95	-1.97	2	2	0	2100	2100	0
1/10/2025 12:39	45802	HEGI_T2	7	9	2	0.27	0.38	0.11	0.59	0.59	0	0	0	0	0	0
1/10/2025 12:40	45802	HEGI_T2	7	9	2	0.27	0.38	0.11	0	0	0	0	0	0	0	0
1/10/2025 12:40	44201	POIN_T1	203	126	-77	0.49	0.35	-0.14	-1.95	-1.97	2	2	0	2100	2100	0
1/10/2025 12:42	45802	HEGI_T2	7	9	2	0.27	0.38	0.11	0.59	0.59	0	0	0	0	0	0
1/10/2025 12:49	40101	HUNT_T2	235	277	42	0.79	0.74	-0.05	0	0	0	0	0	0	0	0
1/10/2025 12:51	40601	PIGR_T1	0	2	2	0	0.1	0.1	-0.63	-0.61	0	0	0	0	0	0
1/10/2025 12:51	40602	PIGR_T1	0	0	0	0	0	0	-0.53	-0.54	1	1	0	600	600	0
1/10/2025 12:52	40601	PIGR_T1	0	2	2	0	0.1	0.1	-0.61	-0.63	0	0	0	0	0	0
1/10/2025 12:52	40602	PIGR_T1	0	0	0	0	0	0	-0.54	-0.52	1	1	0	600	600	0
1/10/2025 12:53	40601	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 13:00	20603	GRWO_T2	15	12	-3	0.35	0	-0.35	0	0	0	0	0	0	0	0
1/10/2025 13:00	20601	GRWO_T2	2	2	0	1.75	0.6	-1.15	0.31	0.38	0	0	0	0	0	0
1/10/2025 13:24	43301	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 13:29	61503	EPET_T1	0	0	0	0	0	0	-1.01	-0.94	0	0	0	0	0	0
1/10/2025 13:34	20201	JERM_T1	0	0	0	0	0	0	-0.21	-0.24	2	2	0	2400	2400	0
1/10/2025 13:57	22002	BOHE_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
1/10/2025 14:08	14802	TREI_T2	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
1/10/2025 14:08	14801	TREI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/10/2025 14:14	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
1/10/2025 14:14	54501	ENOL_T2	0	0	0	0	0	0	-0.51	-0.49	0	1	1	0	600	600
1/10/2025 14:16	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/10/2025 14:16	54501	ENOL_T2	0	0	0	0	0	0	-0.51	-0.49	0	1	1	0	600	600
1/10/2025 14:18	60502	NMAN_T2	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
1/10/2025 14:18	60501	NMAN_T2	1	21	20	0.1	0.15	0.05	0	0	0	0	0	0	0	0
1/10/2025 14:21	44902	SCOT_T2	621	671	50	0.73	0.8	0.07	0	0	0	0	0	0	0	0
1/10/2025 14:21	44901	SCOT_T2	131	243	112	0.26	0.36	0.1	0.2	0.12	0	0	0	0	0	0
1/10/2025 14:22	67001	STHI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/10/2025 14:22	56504	ROCK_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
1/10/2025 14:22	56501	ROCK_T2	1	3	2	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
1/10/2025 14:22	67002	STHI_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
1/10/2025 14:22	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 14:24	67002	STHI_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
1/10/2025 14:24	44902	SCOT_T2	621	671	50	0.73	0.8	0.07	-0.92	-0.91	0	0	0	0	0	0
1/10/2025 14:24	44901	SCOT_T2	131	243	112	0.26	0.36	0.1	0	0	0	0	0	0	0	0
1/10/2025 14:24	67001	STHI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/10/2025 14:25	67002	STHI_T2	0	0	0	0	0	0	1.81	1.76	0	0	0	0	0	0
1/10/2025 14:25	44901	SCOT_T2	131	243	112	0.26	0.36	0.1	0.25	0.19	0	0	0	0	0	0
1/10/2025 14:25	44902	SCOT_T2	621	671	50	0.73	0.8	0.07	-0.92	-0.91	0	0	0	0	0	0
1/10/2025 14:25	67001	STHI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/10/2025 14:26	67002	STHI_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
1/10/2025 14:26	67001	STHI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/10/2025 14:28	16102	BING_T2	1	1	0	4.9	4.6	-0.3	0.07	0.04	0	0	0	0	0	0
1/10/2025 14:30	26703	HEML_T1	0	0	0	0	0	0	-0.71	-0.73	1	1	0	600	600	0
1/10/2025 14:33	13503	MCMI_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
1/10/2025 14:34	65502	MOJO_T2	0	268	268	0	0.2	0.2	0	0	0	0	0	0	0	0
1/10/2025 14:34	67402	WAKE_T2	0	0	0	0	0	0	0.51	0.35	1	0	-1	600	0	-600
1/10/2025 14:34	65503	MOJO_T2	0	128	128	0	0.18	0.18	-1.3	-1.36	0	0	0	0	0	0
1/10/2025 14:35	65502	MOJO_T2	0	268	268	0	0.2	0.2	0	0	0	0	0	0	0	0
1/10/2025 14:35	65503	MOJO_T2	0	128	128	0	0.18	0.18	-1.3	-1.36	0	0	0	0	0	0
1/10/2025 14:39	42601	TUSC_T1	13	17	4	1.18	1.6	0.42	-0.31	-0.35	1	2	1	1200	1800	600
1/10/2025 14:54	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0.58	0.56	0	0	0	0	0	0
1/10/2025 15:03	55002	NEWP_T1	4	5	1	0.45	0.8	0.35	-0.19	-0.2	0	0	0	0	0	0
1/10/2025 15:07	65001	NEFF_T2	231	234	3	0.37	0.39	0.02	-0.97	-0.87	1	1	0	1200	1200	0
1/10/2025 15:20	44201	POIN_T1	143	231	88	0.31	0.49	0.18	-2.17	-2.22	2	2	0	2100	2100	0
1/10/2025 15:22	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 15:30	66901	SHIL_T2	0	0	0	0	0	0	-1.61	-1.65	1	1	0	1200	1200	0
1/10/2025 15:32	66903	SHIL_T2	0	0	0	0	0	0	-1.16	-1.15	0	0	0	0	0	0
1/10/2025 15:33	66903	SHIL_T2	0	0	0	0	0	0	-1.16	-1.15	0	0	0	0	0	0
1/10/2025 15:35	55002	NEWP_T1	5	5	0	0.74	0.36	-0.38	-0.19	-0.18	0	0	0	0	0	0
1/10/2025 15:37	41901	REED_T1	13	13	0	1.31	1.31	0	0	0	0	0	0	0	0	0
1/10/2025 15:37	41903	REED_T1	0	0	0	0	0	0	-0.32	-0.29	1	1	0	1200	1200	0
1/10/2025 15:38	11302	EMMA_T1	0	0	0	0	0	0	-1.18	-1.18	1	1	0	600	600	0
1/10/2025 15:39	41903	REED_T1	0	0	0	0	0	0	-0.32	-0.29	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/10/2025 15:39	41901	REED_T1	13	13	0	1.31	1.31	0	0	0	0	0	0	0	0	0
1/10/2025 15:43	42701	AUGU_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/10/2025 15:44	42701	AUGU_T1	1	1	0	0.4	0.5	0.1	0	0	2	2	0	1800	1800	0
1/10/2025 15:52	14801	TREI_T2	0	0	0	0	0	0	0.59	0.62	0	0	0	0	0	0
1/10/2025 15:58	46004	BERW_T2	1	2	1	0.3	0	-0.3	-0.79	-0.67	0	0	0	0	0	0
1/10/2025 16:07	60301	TWVA_T2	0	0	0	0	0	0	-3.16	-3.15	2	2	0	1800	1800	0
1/10/2025 18:46	10805	CHHI_T2	1	1	0	7.1	7	-0.1	-0.97	-1.06	1	1	0	600	600	0
1/10/2025 18:47	26703	HEML_T1	6	1	-5	0.55	0	-0.55	-0.6	-0.63	1	1	0	600	600	0
1/10/2025 18:47	26701	HEML_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 18:47	26704	HEML_T2	0	1	1	0	0	0	-0.34	-0.36	0	0	0	0	0	0
1/10/2025 18:49	24202	PROV_T4	0	0	0	0	0	0	-0.72	-0.72	1	1	0	1200	1200	0
1/10/2025 18:50	20401	ASHF_T2	5	5	0	0.52	0.4	-0.12	-0.12	-0.13	0	0	0	0	0	0
1/10/2025 18:50	43304	WATS_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 18:50	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/10/2025 18:50	43301	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 18:51	46602	LACR_T1	0	2	2	0	0.15	0.15	-0.94	-0.89	0	0	0	0	0	0
1/10/2025 18:52	65001	NEFF_T2	155	240	85	0.19	0.38	0.19	-1.12	-1.15	1	1	0	1200	1200	0
1/10/2025 18:52	14801	TREI_T2	1	0	-1	2.7	0	-2.7	0	0	0	0	0	0	0	0
1/10/2025 18:52	15603	NSTR_T2	0	0	0	0	0	0	-1.05	-1.07	0	0	0	0	0	0
1/10/2025 18:52	44201	POIN_T1	72	137	65	0.25	0.36	0.11	-4.47	-4.42	4	4	0	4200	4200	0
1/10/2025 18:52	14802	TREI_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
1/10/2025 18:52	15601	NSTR_T2	6	9	3	0.43	0.44	0.01	0	0	0	0	0	0	0	0
1/10/2025 18:53	63501	HEID_TBK1-2	39	96	57	0.28	0.49	0.21	0	0	0	0	0	0	0	0
1/10/2025 18:53	44201	POIN_T1	72	137	65	0.25	0.36	0.11	-2.23	-2.21	2	2	0	2100	2100	0
1/10/2025 18:53	46002	BERW_T2	0	0	0	0	0	0	-1.18	-1.2	1	1	0	900	900	0
1/10/2025 18:53	46004	BERW_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 18:54	14801	TREI_T2	1	0	-1	2.7	0	-2.7	0.76	0.72	0	0	0	0	0	0
1/10/2025 18:54	44901	SCOT_T2	203	245	42	0.4	0.43	0.03	0	-0.04	0	0	0	0	0	0
1/10/2025 18:54	22002	BOHE_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
1/10/2025 18:54	63501	HEID_TBK1-2	39	96	57	0.28	0.49	0.21	-0.44	-0.39	1	1	0	900	900	0
1/10/2025 18:54	11104	EGYP_T1	0	3	3	0	0.15	0.15	-0.46	-0.41	1	1	0	900	900	0
1/10/2025 18:54	41901	REED_T1	13	13	0	1.33	1.15	-0.18	0	0	0	0	0	0	0	0
1/10/2025 18:54	11302	EMMA_T1	0	0	0	0	0	0	-1.2	-1.2	1	1	0	600	600	0
1/10/2025 18:54	40601	PIGR_T1	53	64	11	0.42	0.45	0.03	0	0	0	0	0	0	0	0
1/10/2025 18:54	11102	EGYP_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 18:54	13302	ORVI_T2	0	2	2	0	0.1	0.1	1.58	1.52	0	0	0	0	0	0
1/10/2025 18:54	40602	PIGR_T1	53	90	37	0.22	0.22	0	0	0	0	0	0	0	0	0
1/10/2025 18:54	40801	EXCH_T2	3	4	1	0.5	0.5	0	0	0	0	0	0	0	0	0
1/10/2025 18:54	11303	EMMA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 18:54	41902	REED_T1	5	5	0	0.12	0.13	0.01	0	0	0	0	0	0	0	0
1/10/2025 18:54	40603	PIGR_T1	0	14	14	0	0.12	0.12	0	0	0	0	0	0	0	0
1/10/2025 18:54	44902	SCOT_T2	727	752	25	1.03	1.06	0.03	0	0	0	0	0	0	0	0
1/10/2025 18:54	43304	WATS_T2	0	2	2	0	0	0	0.04	0.29	0	0	0	0	0	0
1/10/2025 18:54	16102	BING_T2	1	1	0	4.5	4.8	0.3	-0.06	-0.07	0	0	0	0	0	0
1/10/2025 18:54	11301	EMMA_T1	0	0	0	0	0	0	-0.71	-0.67	0	0	0	0	0	0
1/10/2025 18:54	40802	EXCH_T2	105	157	52	0.2	0.26	0.06	-0.83	-0.85	0	0	0	0	0	0
1/10/2025 18:54	14603	SWHI_T1	0	0	0	0	0	0	-1.55	-1.56	2	2	0	1200	1200	0
1/10/2025 18:54	20201	JERM_T1	0	0	0	0	0	0	-0.52	-0.55	2	2	0	2400	2400	0
1/10/2025 18:55	40602	PIGR_T1	53	90	37	0.22	0.22	0	0	0	0	0	0	0	0	0
1/10/2025 18:55	57201	ROSS_T1	4	1	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/10/2025 18:55	57205	ROSS_T1	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
1/10/2025 18:55	13503	MCMI_T2	0	0	0	0	0	0	0.52	0.46	0	0	0	0	0	0
1/10/2025 18:55	60301	TWVA_T2	1	2	1	0.2	0	-0.2	-2.46	-2.52	1	1	0	1200	1200	0
1/10/2025 18:55	41801	GOCI_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/10/2025 18:55	54504	ENOL_T2	0	0	0	0	0	0	-0.97	-0.97	1	1	0	600	600	0
1/10/2025 18:55	44201	POIN_T1	72	137	65	0.25	0.36	0.11	-4.47	-4.42	4	4	0	4200	4200	0
1/10/2025 18:55	40101	HUNT_T2	424	435	11	1.15	1.08	-0.07	-1.68	-1.66	0	0	0	0	0	0
1/10/2025 18:55	65502	MOJO_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 18:55	67002	STHI_T2	71	149	78	0.17	0.2	0.03	0	0	0	0	0	0	0	0
1/10/2025 18:55	65503	MOJO_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
1/10/2025 18:55	40601	PIGR_T1	53	64	11	0.42	0.45	0.03	0	0	0	0	0	0	0	0
1/10/2025 18:55	54505	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/10/2025 18:55	40603	PIGR_T1	0	14	14	0	0.12	0.12	0	0	0	0	0	0	0	0
1/10/2025 18:55	67001	STHI_T2	222	386	164	0.2	0.24	0.04	0	0	0	0	0	0	0	0
1/10/2025 18:55	46203	DANV_T2	37	43	6	0.63	0.59	-0.04	-1.37	-0.38	0	0	0	0	0	0
1/10/2025 18:56	52004	LING_T2	2	2	0	5.3	5.4	0.1	0.39	0.42	0	0	0	0	0	0
1/10/2025 18:56	46802	HEPB_T1	1	1	0	0.3	1	0.7	-1.18	-1.16	0	0	0	0	0	0
1/10/2025 18:56	10801	CHHI_T1	0	0	0	0	0	0	-1.37	-1.35	2	2	0	1500	1500	0
1/10/2025 18:56	46206	DANV_T2	0	0	0	0	0	0	1.64	1.61	2	2	0	2100	2100	0
1/10/2025 18:56	60502	NMAN_T2	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
1/10/2025 18:56	11901	ETEX_T2	0	0	0	0	0	0	0.29	0.33	0	0	0	0	0	0
1/10/2025 18:56	60501	NMAN_T2	3	29	26	0.1	0.23	0.13	0	0	0	0	0	0	0	0
1/10/2025 18:56	46203	DANV_T2	37	43	6	0.63	0.59	-0.04	0	0	0	0	0	0	0	0
1/10/2025 18:56	63501	HEID_TBK1-2	39	96	57	0.28	0.49	0.21	-0.44	-0.39	1	1	0	900	900	0
1/10/2025 18:56	13701	SCHN_T2	0	0	0	0	0	0	0.03	0.01	1	1	0	600	600	0
1/10/2025 18:56	14801	TREI_T2	1	0	-1	2.7	0	-2.7	0.76	0.72	0	0	0	0	0	0
1/10/2025 18:56	11303	EMMA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 18:56	46004	BERW_T2	0	2	2	0	0	0	-0.67	-0.64	0	0	0	0	0	0
1/10/2025 18:56	26401	MOR_T1	2	3	1	6.6	6.55	-0.05	0	0	0	0	0	0	0	0
1/10/2025 18:56	11301	EMMA_T1	0	0	0	0	0	0	-0.71	-0.67	0	0	0	0	0	0
1/10/2025 18:57	20401	ASHF_T2	5	5	0	0.52	0.4	-0.12	0	0	0	0	0	0	0	0
1/10/2025 18:57	60502	NMAN_T2	0	0	0	0	0	0	-0.29	-0.31	0	0	0	0	0	0
1/10/2025 18:57	29402	BELT_T1	1	1	0	5.9	5.6	-0.3	0	0	0	0	0	0	0	0
1/10/2025 18:57	45502	DERR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/10/2025 18:57	46201	DERR_T2	2	2	0	1.15	0.35	-0.8	0.14	0.16	2	2	0	1800	1800	0
1/10/2025 18:57	65503	MOJO_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
1/10/2025 18:57	46206	DANV_T2	0	0	0	0	0	0	1.64	1.61	2	2	0	2100	2100	0
1/10/2025 18:57	40101	HUNT_T2	424	435	11	1.15	1.08	-0.07	0	0	0	0	0	0	0	0
1/10/2025 18:57	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/10/2025 18:57	65502	MOJO_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 18:57	20403	ASHF_T2	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
1/10/2025 18:57	46203	DANV_T2	37	43	6	0.63	0.59	-0.04	0	0	0	0	0	0	0	0
1/10/2025 18:57	60501	NMAN_T2	3	29	26	0.1	0.23	0.13	0	0	0	0	0	0	0	0
1/10/2025 18:58	47203	FAXO_T2	1	1	0	1.6	1.5	-0.1	-1.05	-1.04	0	0	0	0	0	0
1/10/2025 18:58	45501	DERR_T2	2	2	0	1.15	0.35	-0.8	0.14	0.16	2	2	0	1800	1800	0
1/10/2025 18:58	23401	HONE_T2	8	5	-3	0.7	1.2	0.5	-0.11	-0.08	0	0	0	0	0	0
1/10/2025 18:58	15104	UPHA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 18:58	10801	CHHI_T1	0	0	0	0	0	0	-1.37	-1.35	2	2	0	1500	1500	0
1/10/2025 18:58	14604	SWHI_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	900	900	0
1/10/2025 18:58	23402	HONE_T2	0	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0
1/10/2025 18:58	15103	UPHA_T2	0	0	0	0	0	0	0.49	0.52	0	0	0	0	0	0
1/10/2025 18:58	46803	HEPB_T2	6	14	8	0.2	0.25	0.05	0.56	0.54	0	0	0	0	0	0
1/10/2025 18:58	44902	SCOT_T2	727	752	25	1.03	1.06	0.03	0	0	0	0	0	0	0	0
1/10/2025 18:58	67604	WARW_T1	0	0	0	0	0	0	0.83	0.8	0	0	0	0	0	0
1/10/2025 18:58	45502	DERR_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/10/2025 18:58	13704	SCHN_T2	0	0	0	0	0	0	-0.89	-0.83	0	0	0	0	0	0
1/10/2025 18:58	46801	HEPB_T2	19	31	12	0.17	0.31	0.14	0	0	0	0	0	0	0	0
1/10/2025 18:58	46203	DANV_T2	37	43	6	0.63	0.59	-0.04	-1.37	-0.38	0	0	0	0	0	0
1/10/2025 18:58	64101	REFR_T1	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
1/10/2025 18:58	14801	TREI_T2	1	0	-1	2.7	0	-2.7	0.76	0.72	0	0	0	0	0	0
1/10/2025 18:58	67002	STHI_T2	71	149	78	0.17	0.2	0.03	2.04	1.98	0	0	0	0	0	0
1/10/2025 18:58	44901	SCOT_T2	203	245	42	0.4	0.43	0.03	0	-0.04	0	0	0	0	0	0
1/10/2025 18:58	67001	STHI_T2	222	386	164	0.2	0.24	0.04	0	0	0	0	0	0	0	0
1/10/2025 18:59	60501	NMAN_T2	3	29	26	0.1	0.23	0.13	0	0	0	0	0	0	0	0
1/10/2025 18:59	66903	SHIL_T2	0	10	10	0	0.11	0.11	-1.24	-1.24	0	0	0	0	0	0
1/10/2025 18:59	43304	WATS_T2	0	2	2	0	0	0	0.04	0.29	0	0	0	0	0	0
1/10/2025 18:59	40702	FFLD_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/10/2025 18:59	54501	ENOL_T2	0	0	0	0	0	0	-0.48	-0.47	1	1	0	600	600	0
1/10/2025 18:59	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 18:59	41901	REED_T1	13	13	0	1.33	1.15	-0.18	0	0	0	0	0	0	0	0
1/10/2025 18:59	55101	WERT_T1	0	0	0	0	0	0	-1.7	-1.81	2	2	0	1500	1500	0
1/10/2025 18:59	42701	AUGU_T1	3	2	-1	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
1/10/2025 18:59	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 18:59	61503	EPET_T1	0	0	0	0	0	0	-0.94	-1.09	0	0	0	0	0	0
1/10/2025 18:59	57201	ROSS_T1	4	1	-3	0.1	0	-0.1	-0.57	-0.71	0	0	0	0	0	0
1/10/2025 18:59	41902	REED_T1	5	5	0	0.12	0.13	0.01	0	0	0	0	0	0	0	0
1/10/2025 18:59	55002	NEWP_T1	4	4	0	0.73	0.8	0.07	-0.2	-0.18	0	0	0	0	0	0
1/10/2025 18:59	60201	ATGL_T2	19	59	40	0.23	0.27	0.04	-0.03	-0.14	0	0	0	0	0	0
1/10/2025 18:59	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 18:59	54505	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/10/2025 18:59	40701	FFLD_T1	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
1/10/2025 18:59	41903	REED_T1	0	0	0	0	0	0	-0.35	-0.31	1	1	0	1200	1200	0
1/10/2025 18:59	67001	STHI_T2	222	386	164	0.2	0.24	0.04	0	0	0	0	0	0	0	0
1/10/2025 18:59	67002	STHI_T2	71	149	78	0.17	0.2	0.03	0.68	0.66	0	0	0	0	0	0
1/10/2025 18:59	66901	SHIL_T2	14	74	60	0.15	0.16	0.01	0	0	0	0	0	0	0	0
1/10/2025 19:00	62105	ELAN_T1	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
1/10/2025 19:00	46801	HEPB_T2	21	30	9	0.23	0.32	0.09	0.64	0.62	0	0	0	0	0	0
1/10/2025 19:00	40601	PIGR_T1	55	97	42	0.41	0.35	-0.06	0	0	0	0	0	0	0	0
1/10/2025 19:00	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:00	40603	PIGR_T1	14	4	-10	0.12	0.13	0.01	0	0	0	0	0	0	0	0
1/10/2025 19:00	64204	KINZ_T1	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
1/10/2025 19:00	66903	SHIL_T2	0	10	10	0	0.11	0.11	0	0	0	0	0	0	0	0
1/10/2025 19:00	11102	EGYP_T1	6	0	-6	0.18	0	-0.18	0	0	0	0	0	0	0	0
1/10/2025 19:00	14602	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/10/2025 19:00	10801	CHHI_T1	0	0	0	0	0	0	-1.37	-1.35	2	2	0	1500	1500	0
1/10/2025 19:00	65502	MOJO_T2	0	20	20	0	0.1	0.1	-1.01	-0.98	0	0	0	0	0	0
1/10/2025 19:00	46803	HEPB_T2	8	14	6	0.23	0.25	0.02	0	0	0	0	0	0	0	0
1/10/2025 19:00	66901	SHIL_T2	12	150	138	0.13	0.18	0.05	-1.62	-1.64	1	1	0	1200	1200	0
1/10/2025 19:00	11904	ETEX_T2	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
1/10/2025 19:00	62106	ELAN_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
1/10/2025 19:00	63501	HEID_TBK1-2	60	124	64	0.41	0.47	0.06	-0.44	-0.39	1	1	0	900	900	0
1/10/2025 19:00	13702	SCHN_T1	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
1/10/2025 19:00	40602	PIGR_T1	71	75	4	0.22	0.24	0.02	0	0	0	0	0	0	0	0
1/10/2025 19:00	11104	EGYP_T1	1	3	2	0.1	0.15	0.05	-0.46	-0.41	1	1	0	900	900	0
1/10/2025 19:00	66902	SHIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 19:00	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:00	64202	KINZ_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/10/2025 19:00	13503	MCMI_T2	0	1	1	0	0	0	0.52	0.46	0	0	0	0	0	0
1/10/2025 19:00	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:01	29402	BELT_T1	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
1/10/2025 19:01	64203	KINZ_T1	0	0	0	0	0	0	-0.29	-0.31	1	1	0	600	600	0
1/10/2025 19:01	64202	KINZ_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/10/2025 19:01	53902	HALI_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/10/2025 19:01	67001	STHI_T2	222	434	212	0.19	0.26	0.07	0	0	0	0	0	0	0	0
1/10/2025 19:01	65502	MOJO_T2	0	20	20	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 19:01	53901	HALI_T2	0	0	0	0	0	0	-1.28	-1.25	0	0	0	0	0	0
1/10/2025 19:01	54601	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 19:01	54603	SUMM_T2	0	0	0	0	0	0	-0.37	-0.36	1	1	0	900	900	0
1/10/2025 19:01	64204	KINZ_T1	1	1	0	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
1/10/2025 19:01	67002	STHI_T2	64	189	125	0.16	0.21	0.05	0.68	0.66	0	0	0	0	0	0
1/10/2025 19:01	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/10/2025 19:01	52502	PROG_T2	0	0	0	0	0	0	-0.34	-0.4	1	1	0	900	900	0
1/10/2025 19:01	63501	HEID_TBK1-2	60	124	64	0.41	0.47	0.06	-0.44	-0.39	1	1	0	900	900	0
1/10/2025 19:01	44302	BEAV_T2	116	266	150	0.38	0.4	0.02	0	0	0	0	0	0	0	0
1/10/2025 19:01	44301	BEAV_T2	7	8	1	0.4	0.58	0.18	-0.64	-0.83	1	1	0	600	600	0
1/10/2025 19:01	64101	REFR_T1	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
1/10/2025 19:01	53903	HALI_T2	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
1/10/2025 19:01	65503	MOJO_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
1/10/2025 19:01	55002	NEWP_T1	4	4	0	0.63	0.93	0.3	-0.2	-0.18	0	0	0	0	0	0
1/10/2025 19:02	52402	GRPA_T2	3	3	0	0.33	0.63	0.3	-0.88	-0.88	0	0	0	0	0	0
1/10/2025 19:02	14602	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/10/2025 19:02	46203	DANV_T2	41	4	-37	0.59	0.4	-0.19	-2.74	-0.76	0	0	0	0	0	0
1/10/2025 19:02	45502	DERR_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
1/10/2025 19:02	64305	LINC_T1	1	2	1	0.2	0.3	0.1	-0.62	-0.58	0	0	0	0	0	0
1/10/2025 19:02	64101	REFR_T1	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
1/10/2025 19:02	45802	HEGI_T2	15	46	31	0.48	1.25	0.77	0.33	0.35	0	0	0	0	0	0
1/10/2025 19:02	67001	STHI_T2	222	434	212	0.19	0.26	0.07	0	0	0	0	0	0	0	0
1/10/2025 19:02	40701	FFLD_T1	5	10	5	0.1	0.12	0.02	0	0	0	0	0	0	0	0
1/10/2025 19:02	40702	FFLD_T1	1	2	1	0.1	0.15	0.05	-0.96	-0.91	0	0	0	0	0	0
1/10/2025 19:02	65401	MARI_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
1/10/2025 19:02	52001	LING_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
1/10/2025 19:02	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:02	55002	NEWP_T1	4	4	0	0.63	0.93	0.3	-0.4	-0.36	0	0	0	0	0	0
1/10/2025 19:02	14603	SWHI_T1	0	0	0	0	0	0	-3.1	-3.12	4	4	0	2400	2400	0
1/10/2025 19:02	13704	SCHN_T2	0	0	0	0	0	0	-0.89	-0.83	0	0	0	0	0	0
1/10/2025 19:02	11302	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:02	42701	AUGU_T1	1	2	1	0.4	0.2	-0.2	0	0	2	2	0	1800	1800	0
1/10/2025 19:02	11303	EMMA_T1	0	1	1	0	9.2	9.2	0	0	0	0	0	0	0	0
1/10/2025 19:02	45501	DERR_T2	2	2	0	0.9	0	-0.9	0.14	0.16	2	2	0	1800	1800	0
1/10/2025 19:02	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:02	52403	GRPA_T2	1	0	-1	0.6	0	-0.6	-0.03	-0.05	0	0	0	0	0	0
1/10/2025 19:02	67002	STHI_T2	64	189	125	0.16	0.21	0.05	0.68	0.66	0	0	0	0	0	0
1/10/2025 19:02	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/10/2025 19:02	62105	ELAN_T1	0	1	1	0	1.4	1.4	0.56	0.55	0	0	0	0	0	0
1/10/2025 19:02	11901	ETEX_T2	0	0	0	0	0	0	0.29	0.33	0	0	0	0	0	0
1/10/2025 19:03	43304	WATS_T2	0	6	6	0	0	0	0.04	0.29	0	0	0	0	0	0
1/10/2025 19:03	44201	POIN_T1	111	151	40	0.32	0.42	0.1	-2.23	-2.21	2	2	0	2100	2100	0
1/10/2025 19:03	20603	GRWO_T2	12	20	8	0.42	0.35	-0.07	-0.44	-0.49	1	1	0	900	900	0
1/10/2025 19:03	53501	EVIL_T2	1	0	-1	1	0	-1	-3.25	-3.2	4	4	0	2400	2400	0
1/10/2025 19:03	64101	REFR_T1	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
1/10/2025 19:03	44901	SCOT_T2	222	276	54	0.4	0.5	0.1	0	-0.04	0	0	0	0	0	0
1/10/2025 19:03	56501	ROCK_T2	3	4	1	0.9	1.1	0.2	0	0	0	0	0	0	0	0
1/10/2025 19:03	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/10/2025 19:03	44902	SCOT_T2	739	757	18	1.01	1.14	0.13	-1.7	-1.7	0	0	0	0	0	0
1/10/2025 19:03	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:03	45802	HEGI_T2	15	46	31	0.48	1.25	0.77	0	0	0	0	0	0	0	0
1/10/2025 19:03	55101	WERT_T1	0	0	0	0	0	0	-1.7	-1.81	2	2	0	1500	1500	0
1/10/2025 19:03	56504	ROCK_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
1/10/2025 19:03	63501	HEID_TBK1-2	60	124	64	0.41	0.47	0.06	-0.44	-0.39	1	1	0	900	900	0
1/10/2025 19:03	20601	GRWO_T2	2	1	-1	2.3	3.2	0.9	0	0	0	0	0	0	0	0
1/10/2025 19:03	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:03	52502	PROG_T2	0	0	0	0	0	0	-0.34	-0.4	1	1	0	900	900	0
1/10/2025 19:03	54501	ENOL_T2	0	0	0	0	0	0	-0.48	-0.47	1	1	0	600	600	0
1/10/2025 19:04	40603	PIGR_T1	14	4	-10	0.12	0.13	0.01	0	0	0	0	0	0	0	0
1/10/2025 19:04	40602	PIGR_T1	71	75	4	0.22	0.24	0.02	0	0	0	0	0	0	0	0
1/10/2025 19:04	66203	SISP_T2	1	1	0	3.2	1.5	-1.7	-0.93	-0.91	1	1	0	1200	1200	0
1/10/2025 19:04	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:04	51204	MTON_T2	0	0	0	0	0	0	-0.4	-0.4	1	1	0	600	600	0
1/10/2025 19:04	13702	SCHN_T1	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
1/10/2025 19:04	55101	WERT_T1	0	0	0	0	0	0	-1.7	-1.81	2	2	0	1500	1500	0
1/10/2025 19:04	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:04	53501	EVIL_T2	1	0	-1	1	0	-1	-1.63	-1.6	2	2	0	1200	1200	0
1/10/2025 19:04	16102	BING_T2	1	1	0	3.9	4.8	0.9	0	0	0	0	0	0	0	0
1/10/2025 19:04	40601	PIGR_T1	55	97	42	0.41	0.35	-0.06	-0.8	-0.75	0	0	0	0	0	0
1/10/2025 19:04	64101	REFR_T1	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
1/10/2025 19:05	54601	SUMM_T2	0	1	1	0	0.1	0.1	-1.71	-1.71	2	2	0	2100	2100	0
1/10/2025 19:05	65401	MARI_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
1/10/2025 19:05	62105	ELAN_T1	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
1/10/2025 19:05	40601	PIGR_T1	55	97	42	0.41	0.35	-0.06	0	0	0	0	0	0	0	0
1/10/2025 19:05	60902	DONG_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
1/10/2025 19:05	43304	WATS_T2	0	6	6	0	0	0	0.04	0.29	0	0	0	0	0	0
1/10/2025 19:05	40602	PIGR_T1	71	75	4	0.22	0.24	0.02	-1.77	-1.76	1	1	0	600	600	0
1/10/2025 19:05	52202	DEVO_T2	0	0	0	0	0	0	-1.15	-1.12	0	0	0	0	0	0
1/10/2025 19:05	63803	HEMP_T1	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
1/10/2025 19:05	65802	RTWN_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
1/10/2025 19:05	40603	PIGR_T1	14	4	-10	0.12	0.13	0.01	0	0	0	0	0	0	0	0
1/10/2025 19:05	66203	SISP_T2	1	1	0	3.2	1.5	-1.7	0	0	0	0	0	0	0	0
1/10/2025 19:05	61001	DONV_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
1/10/2025 19:05	46506	LOHA_T1	3	4	1	1.43	1.25	-0.18	0	0	0	0	0	0	0	0
1/10/2025 19:05	52204	DEVO_T2	2	1	-1	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
1/10/2025 19:05	63804	HEMP_T1	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
1/10/2025 19:05	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:05	55101	WERT_T1	0	0	0	0	0	0	-1.7	-1.81	2	2	0	1500	1500	0
1/10/2025 19:05	62105	ELAN_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
1/10/2025 19:05	46501	LOHA_T1	4	6	2	0.45	0.88	0.43	0	0	0	0	0	0	0	0
1/10/2025 19:05	53501	EVIL_T2	1	0	-1	1	0	-1	-1.63	-1.6	2	2	0	1200	1200	0
1/10/2025 19:05	57201	ROSS_T1	1	0	-1	0	0	0	-0.57	-0.71	0	0	0	0	0	0
1/10/2025 19:05	64101	REFR_T1	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
1/10/2025 19:05	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
1/10/2025 19:06	58202	NEWV_T1	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
1/10/2025 19:06	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:06	55101	WERT_T1	0	0	0	0	0	0	-1.81	-1.8	2	2	0	1500	1500	0
1/10/2025 19:06	40602	PIGR_T1	71	75	4	0.22	0.24	0.02	0	0	0	0	0	0	0	0
1/10/2025 19:06	46206	DANV_T2	0	0	0	0	0	0	1.64	1.61	2	2	0	2100	2100	0
1/10/2025 19:06	44502	REED_T1	3	11	8	0.23	0.24	0.01	0.43	0.42	1	1	0	900	900	0
1/10/2025 19:06	11301	EMMA_T1	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
1/10/2025 19:06	11303	EMMA_T1	0	1	1	0	9.2	9.2	0	0	0	0	0	0	0	0
1/10/2025 19:06	67402	WAKE_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
1/10/2025 19:06	40601	PIGR_T1	55	97	42	0.41	0.35	-0.06	-0.8	-0.75	0	0	0	0	0	0
1/10/2025 19:06	42601	TUSC_T1	14	16	2	0.46	0.77	0.31	-0.34	-0.37	1	1	0	1200	1200	0
1/10/2025 19:06	54603	SUMM_T2	0	0	0	0	0	0	-0.36	-0.38	1	1	0	900	900	0
1/10/2025 19:06	40603	PIGR_T1	14	4	-10	0.12	0.13	0.01	0	0	0	0	0	0	0	0
1/10/2025 19:06	54601	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 19:06	53903	HALI_T2	2	2	0	0.7	0.7	0	-0.18	-0.15	0	0	0	0	0	0
1/10/2025 19:06	64101	REFR_T1	0	0	0	0	0	0	0.12	0.04	0	0	0	0	0	0
1/10/2025 19:06	41901	REED_T1	13	9	-4	1.11	1.47	0.36	0	0	0	0	0	0	0	0
1/10/2025 19:06	13501	MCMI_T1	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/10/2025 19:06	53902	HALI_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
1/10/2025 19:06	46203	DANV_T2	41	4	-37	0.59	0.4	-0.19	-2.74	-0.76	0	0	0	0	0	0
1/10/2025 19:07	40702	FFLD_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
1/10/2025 19:07	40602	PIGR_T1	71	75	4	0.22	0.24	0.02	0	0	0	0	0	0	0	0
1/10/2025 19:07	52403	GRPA_T2	1	0	-1	0.6	0	-0.6	-0.05	-0.06	0	0	0	0	0	0
1/10/2025 19:07	40701	FFLD_T1	5	10	5	0.1	0.12	0.02	0	0	0	0	0	0	0	0
1/10/2025 19:07	53501	EVIL_T2	1	0	-1	1	0	-1	-1.6	-1.56	2	2	0	1200	1200	0
1/10/2025 19:07	40201	BEGA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/10/2025 19:07	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:07	60501	NMAN_T2	5	29	24	0.16	0.24	0.08	0	0	0	0	0	0	0	0
1/10/2025 19:07	63501	HEID_TBK1-2	60	124	64	0.41	0.47	0.06	-0.39	-0.36	1	1	0	900	900	0
1/10/2025 19:07	43304	WATS_T2	0	6	6	0	0	0	0.29	0.26	0	0	0	0	0	0
1/10/2025 19:07	40603	PIGR_T1	14	4	-10	0.12	0.13	0.01	0	0	0	0	0	0	0	0
1/10/2025 19:07	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:07	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/10/2025 19:07	52402	GRPA_T2	3	3	0	0.33	0.63	0.3	0	0	0	0	0	0	0	0
1/10/2025 19:07	58202	NEWV_T1	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
1/10/2025 19:07	64802	MONE_T2	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
1/10/2025 19:07	40601	PIGR_T1	55	97	42	0.41	0.35	-0.06	0	0	0	0	0	0	0	0
1/10/2025 19:08	49803	UNIV_T1	1	1	0	6.1	5.7	-0.4	0	0	0	0	0	0	0	0
1/10/2025 19:08	43304	WATS_T2	0	6	6	0	0	0	0.29	0.26	0	0	0	0	0	0
1/10/2025 19:08	49801	UNIV_T1	0	0	0	0	0	0	0.51	0.54	0	0	0	0	0	0
1/10/2025 19:09	43304	WATS_T2	0	6	6	0	0	0	0.29	0.26	0	0	0	0	0	0
1/10/2025 19:09	52204	DEVO_T2	2	1	-1	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
1/10/2025 19:09	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:09	52402	GRPA_T2	3	3	0	0.33	0.63	0.3	0	0	0	0	0	0	0	0
1/10/2025 19:09	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/10/2025 19:09	66902	SHIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 19:09	66901	SHIL_T2	12	150	138	0.13	0.18	0.05	0	0	0	0	0	0	0	0
1/10/2025 19:09	40602	PIGR_T1	71	75	4	0.22	0.24	0.02	-1.76	-1.78	1	1	0	600	600	0
1/10/2025 19:09	40603	PIGR_T1	14	4	-10	0.12	0.13	0.01	0	0	0	0	0	0	0	0
1/10/2025 19:09	53501	EVIL_T2	1	0	-1	1	0	-1	-1.6	-1.56	2	2	0	1200	1200	0
1/10/2025 19:09	55105	WERT_T1	0	0	0	0	0	0	-0.33	-0.32	1	1	0	900	900	0
1/10/2025 19:09	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:09	40802	EXCH_T2	117	156	39	0.21	0.27	0.06	-0.85	-0.87	0	0	0	0	0	0
1/10/2025 19:09	40601	PIGR_T1	55	97	42	0.41	0.35	-0.06	0	0	0	0	0	0	0	0
1/10/2025 19:09	20603	GRWO_T2	12	20	8	0.42	0.35	-0.07	0	0	0	0	0	0	0	0
1/10/2025 19:09	52403	GRPA_T2	1	0	-1	0.6	0	-0.6	-0.05	-0.06	0	0	0	0	0	0
1/10/2025 19:09	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:09	66903	SHIL_T2	0	10	10	0	0.11	0.11	-1.24	-1.23	0	0	0	0	0	0
1/10/2025 19:09	20601	GRWO_T2	2	1	-1	2.3	3.2	0.9	0	-0.03	0	0	0	0	0	0
1/10/2025 19:09	46203	DANV_T2	41	4	-37	0.59	0.4	-0.19	-0.38	-0.39	0	0	0	0	0	0
1/10/2025 19:09	52202	DEVO_T2	0	0	0	0	0	0	-1.12	-1.17	0	0	0	0	0	0
1/10/2025 19:09	40801	EXCH_T2	3	4	1	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
1/10/2025 19:10	55002	NEWP_T1	4	4	0	0.63	0.93	0.3	-0.18	-0.21	0	0	0	0	0	0
1/10/2025 19:10	43304	WATS_T2	0	6	6	0	0	0	0.29	0.26	0	0	0	0	0	0
1/10/2025 19:10	64101	REFR_T1	0	0	0	0	0	0	0.04	0.12	0	0	0	0	0	0
1/10/2025 19:10	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:10	45802	HEGI_T2	15	46	31	0.48	1.25	0.77	0.35	0.27	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/10/2025 19:10	65502	MOJO_T2	0	20	20	0	0.1	0.1	-0.98	-0.97	0	0	0	0	0	0
1/10/2025 19:10	44905	SCOT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:10	40101	HUNT_T2	427	442	15	1.12	1.14	0.02	-1.66	-1.61	0	0	0	0	0	0
1/10/2025 19:11	46506	LOHA_T1	3	4	1	1.43	1.25	-0.18	0	0	0	0	0	0	0	0
1/10/2025 19:11	44301	BEAV_T2	7	8	1	0.4	0.58	0.18	0	0	0	0	0	0	0	0
1/10/2025 19:11	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
1/10/2025 19:11	44302	BEAV_T2	116	266	150	0.38	0.4	0.02	0	0	0	0	0	0	0	0
1/10/2025 19:11	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:11	65502	MOJO_T2	0	20	20	0	0.1	0.1	0	0	0	0	0	0	0	0
1/10/2025 19:11	46501	LOHA_T1	4	6	2	0.45	0.88	0.43	0	0	0	0	0	0	0	0
1/10/2025 19:11	44201	POIN_T1	111	151	40	0.32	0.42	0.1	-2.21	-2.26	2	2	0	2100	2100	0
1/10/2025 19:11	41801	GOCI_T2	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/10/2025 19:12	64101	REFR_T1	0	0	0	0	0	0	0.02	0.06	0	0	0	0	0	0
1/10/2025 19:12	44201	POIN_T1	111	151	40	0.32	0.42	0.1	-2.21	-2.26	2	2	0	2100	2100	0
1/10/2025 19:12	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:13	63501	HEID_TBK1-2	60	124	64	0.41	0.47	0.06	-0.39	-0.36	1	1	0	900	900	0
1/10/2025 19:13	41903	REED_T1	0	0	0	0	0	0	-0.31	0.97	1	0	-1	1200	0	-1200
1/10/2025 19:13	41901	REED_T1	13	9	-4	1.11	1.47	0.36	0	0	0	0	0	0	0	0
1/10/2025 19:13	41902	REED_T1	3	11	8	0.23	0.24	0.01	0	0	0	0	0	0	0	0
1/10/2025 19:15	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:26	64904	MILL_T1	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
1/10/2025 19:32	13503	MCMI_T2	1	1	0	0.2	0.2	0	0.46	-0.52	0	0	0	0	0	0
1/10/2025 19:37	15704	TANN_T1	105	4	-101	0.96	0	-0.96	-0.62	-0.21	0	0	0	0	0	0
1/10/2025 19:37	15701	TANN_T1	1	1	0	3.5	4	0.5	0	0	0	0	0	0	0	0
1/10/2025 19:46	67402	WAKE_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
1/10/2025 19:47	22803	HAUT_T2	29	38	9	1.14	0.61	-0.53	0	0	0	0	0	0	0	0
1/10/2025 19:47	22805	HAUT_T2	42	39	-3	1.97	1.73	-0.24	-1.31	-1.3	1	1	0	1200	1200	0
1/10/2025 19:50	46004	BERW_T2	11	9	-2	0.36	0.6	0.24	-0.71	-0.74	0	0	0	0	0	0
1/10/2025 19:50	46002	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/10/2025 19:55	62102	ELAN_T1	0	0	0	0	0	0	0.85	0.79	0	0	0	0	0	0
1/11/2025 8:01	51804	EBEN_T2	1	1	0	1.8	2.5	0.7	0	0	0	0	0	0	0	0
1/11/2025 8:01	51802	EBEN_T2	4	2	-2	0.43	0.5	0.07	-0.38	-0.36	1	1	0	900	900	0
1/11/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.31	0.43	0	0	0	0	0	0
1/11/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
1/11/2025 9:00	28102	TWLA_T2	2	6	4	0.15	0.1	-0.05	0.26	0.28	0	0	0	0	0	0
1/11/2025 9:39	55101	WERT_T1	0	0	0	0	0	0	-1.67	-1.73	2	2	0	1500	1500	0
1/11/2025 10:11	55101	WERT_T1	0	0	0	0	0	0	-1.67	-1.69	2	2	0	1500	1500	0
1/11/2025 10:13	64204	KINZ_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
1/11/2025 10:13	64201	KINZ_T1	0	0	0	0	0	0	-0.79	-0.76	3	3	0	1500	1500	0
1/11/2025 10:13	64202	KINZ_T1	4	4	0	0.33	0.73	0.4	0	0	0	0	0	0	0	0
1/11/2025 10:17	26704	HEML_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
1/11/2025 10:20	65804	RTWN_T1	0	0	0	0	0	0	-0.01	-0.02	1	1	0	600	600	0
1/11/2025 10:20	65001	NEFF_T2	166	211	45	0.21	0.24	0.03	0	0	0	0	0	0	0	0
1/11/2025 10:20	65004	NEFF_T2	0	0	0	0	0	0	-1.03	-1.05	1	1	0	600	600	0
1/11/2025 10:22	65804	RTWN_T1	0	0	0	0	0	0	-0.02	-0.03	1	1	0	600	600	0
1/11/2025 10:30	12003	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 10:30	12006	HATF_T1	2	2	0	0.8	0.65	-0.15	0.47	0.47	0	0	0	0	0	0
1/11/2025 10:30	12001	HATF_T1	1	1	0	3.3	2.7	-0.6	0	0	0	0	0	0	0	0
1/11/2025 10:52	13303	ORVI_T1	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
1/11/2025 10:55	29402	BELT_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
1/11/2025 10:58	29402	BELT_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
1/11/2025 10:59	53501	EVIL_T2	3	3	0	0.6	0.63	0.03	-0.64	-0.6	0	0	0	0	0	0
1/11/2025 10:59	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 11:00	51802	EBEN_T2	1	0	-1	0.2	0	-0.2	-0.32	-0.37	1	1	0	900	900	0
1/11/2025 11:00	51804	EBEN_T2	1	1	0	1.8	0.9	-0.9	0	0	0	0	0	0	0	0
1/11/2025 11:02	50105	HARR_T3	23	10	-13	2.34	7.15	4.81	0	0	0	0	0	0	0	0
1/11/2025 11:02	44502	HAMI_T2	2	1	-1	1.9	3.1	1.2	0.04	0.05	0	0	0	0	0	0
1/11/2025 11:02	50106	HARR_T3	19	26	7	1.23	1.11	-0.12	0	0	0	0	0	0	0	0
1/11/2025 11:02	44505	HAMI_T2	4	8	4	0.25	0.31	0.06	0	0	0	0	0	0	0	0
1/11/2025 11:02	50103	HARR_T3	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/11/2025 11:02	50107	HARR_T3	12	12	0	1.11	1.51	0.4	0	0	0	0	0	0	0	0
1/11/2025 11:02	50201	HARR_T4	1	2	1	4.5	6.4	1.9	0	0	0	0	0	0	0	0
1/11/2025 11:02	44503	HAMI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 11:05	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 11:08	13902	SEID_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/11/2025 11:08	13904	SEID_T1	36	34	-2	0.72	0.41	-0.31	0	0	0	0	0	0	0	0
1/11/2025 11:10	44302	BEAV_T2	0	0	0	0	0	0	0.25	0.32	0	0	0	0	0	0
1/11/2025 11:10	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 11:16	22002	BOHE_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
1/11/2025 11:16	11103	EGYP_T1	0	0	0	0	0	0	-0.84	-0.81	0	0	0	0	0	0
1/11/2025 11:16	11104	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 11:16	22003	BOHE_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
1/11/2025 11:22	52004	LING_T2	2	2	0	4.6	4.9	0.3	0.1	0.14	0	0	0	0	0	0
1/11/2025 11:23	56501	ROCK_T2	2	5	3	1.4	0.9	-0.5	-0.96	-0.96	0	0	0	0	0	0
1/11/2025 11:24	52001	LING_T1	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
1/11/2025 11:28	16102	BING_T2	1	1	0	4.6	4.6	0	-0.05	-0.01	0	0	0	0	0	0
1/11/2025 11:28	10801	CHHI_T1	0	2	2	0	0	0	-1.45	-1.41	2	2	0	1500	1500	0
1/11/2025 11:32	12006	HATF_T1	2	2	0	0.4	0.1	-0.3	0.44	0.39	0	0	0	0	0	0
1/11/2025 11:32	12005	HATF_T1	2	2	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/11/2025 11:32	12001	HATF_T1	0	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0
1/11/2025 11:36	63501	HEID_TBK1-2	12	44	32	0.25	0.28	0.03	-0.42	-0.46	1	1	0	900	900	0
1/11/2025 11:38	13103	NHAM_T2	3	3	0	1.63	1.43	-0.2	-1.59	-1.55	1	1	0	600	600	0
1/11/2025 11:38	13105	NHAM_T2	8	1	-7	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/11/2025 11:43	61702	ELIZ_T2	0	1	1	0	0.5	0.5	-0.64	-0.65	1	1	0	300	300	0
1/11/2025 11:43	61704	ELIZ_T2	5	2	-3	0.38	0.1	-0.28	0	0	0	0	0	0	0	0
1/11/2025 11:46	61703	ELIZ_T1	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
1/11/2025 11:46	61701	ELIZ_T1	1	2	1	6.2	3.65	-2.55	0	0	0	0	0	0	0	0
1/11/2025 11:48	12001	HATF_T1	1	1	0	1.8	3.1	1.3	0	0	0	0	0	0	0	0
1/11/2025 11:48	12002	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 11:48	12006	HATF_T1	2	2	0	1	0.1	-0.9	0.39	0.39	0	0	0	0	0	0
1/11/2025 11:48	12005	HATF_T1	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
1/11/2025 11:56	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 11:56	16102	BING_T2	1	1	0	2.4	3.4	1	0	0	0	0	0	0	0	0
1/11/2025 11:59	53903	HALI_T2	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
1/11/2025 11:59	53902	HALI_T2	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
1/11/2025 11:59	53901	HALI_T2	0	2	2	0	0.15	0.15	-1.3	-1.29	0	0	0	0	0	0
1/11/2025 12:03	64401	LAND_T1	0	0	0	0	0	0	-1.06	-1.06	1	1	0	600	600	0
1/11/2025 12:04	12006	HATF_T1	1	2	1	0.1	0.5	0.4	0.39	0.34	0	0	0	0	0	0
1/11/2025 12:04	12001	HATF_T1	1	1	0	3.1	3.4	0.3	0	0	0	0	0	0	0	0
1/11/2025 12:04	12005	HATF_T1	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
1/11/2025 12:05	64401	LAND_T1	0	0	0	0	0	0	-1.06	-1.06	1	1	0	600	600	0
1/11/2025 12:09	60301	TWVA_T2	0	0	0	0	0	0	-3.16	-3.18	2	2	0	1800	1800	0
1/11/2025 12:11	61801	EELI_T2	2	4	2	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
1/11/2025 12:11	61802	EELI_T2	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
1/11/2025 12:15	61801	EELI_T2	3	3	0	0.63	0.7	0.07	0	0	0	0	0	0	0	0
1/11/2025 12:15	61802	EELI_T2	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
1/11/2025 12:16	41903	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 12:16	64305	LINC_T1	0	0	0	0	0	0	-0.62	-0.65	0	0	0	0	0	0
1/11/2025 12:16	41901	REED_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/11/2025 12:16	41902	REED_T1	14	11	-3	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
1/11/2025 12:17	64403	LAND_T1	0	0	0	0	0	0	-1.79	-1.77	1	1	0	900	900	0
1/11/2025 12:19	55002	NEWP_T1	5	6	1	0.62	1.02	0.4	-0.18	-0.19	0	0	0	0	0	0
1/11/2025 12:21	52004	LING_T2	2	3	1	4.85	3.33	-1.52	0	0	0	0	0	0	0	0
1/11/2025 12:28	16102	BING_T2	1	1	0	3.4	3.2	-0.2	0	0	0	0	0	0	0	0
1/11/2025 12:28	16103	BING_T2	0	0	0	0	0	0	-1.58	-1.56	1	1	0	900	900	0
1/11/2025 12:31	53903	HALI_T2	2	2	0	1.1	0.9	-0.2	-0.17	-0.2	0	0	0	0	0	0
1/11/2025 12:31	54506	ENOL_T2	0	0	0	0	0	0	0.2	0.24	1	0	-1	600	0	-600
1/11/2025 12:31	53901	HALI_T2	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
1/11/2025 12:31	63501	HEID_TBK1-2	92	83	-9	0.45	0.49	0.04	-0.84	-0.8	2	2	0	1800	1800	0
1/11/2025 12:31	53902	HALI_T2	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
1/11/2025 12:32	52402	GRPA_T2	1	2	1	0.1	0.1	0	-0.94	-0.91	0	0	0	0	0	0
1/11/2025 12:32	52401	GRPA_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/11/2025 12:32	52403	GRPA_T2	3	5	2	1.03	0.63	-0.4	0	0	0	0	0	0	0	0
1/11/2025 12:32	63501	HEID_TBK1-2	92	83	-9	0.45	0.49	0.04	-0.42	-0.4	1	1	0	900	900	0
1/11/2025 12:33	63501	HEID_TBK1-2	92	83	-9	0.45	0.49	0.04	-0.84	-0.8	2	2	0	1800	1800	0
1/11/2025 12:34	66303	MCGO_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
1/11/2025 12:34	64305	LINC_T1	0	0	0	0	0	0	-0.65	-0.69	0	0	0	0	0	0
1/11/2025 12:34	66302	MCGO_T2	1	1	0	0.6	0.1	-0.5	-0.82	-0.88	0	0	0	0	0	0
1/11/2025 12:34	63501	HEID_TBK1-2	92	83	-9	0.45	0.49	0.04	0	0	0	0	0	0	0	0
1/11/2025 12:35	64404	LAND_T2	66	10	-56	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
1/11/2025 12:35	64402	LAND_T2	1	1	0	0.3	0.5	0.2	-0.49	-0.58	1	1	0	600	600	0
1/11/2025 12:37	66302	MCGO_T2	1	1	0	0.6	0.1	-0.5	-0.88	-0.88	0	0	0	0	0	0
1/11/2025 12:37	66303	MCGO_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
1/11/2025 12:38	57303	MOAL_T2	1	1	0	8.1	8	-0.1	0	0	0	0	0	0	0	0
1/11/2025 12:38	57304	MOAL_T2	0	0	0	0	0	0	-0.58	-0.68	0	0	0	0	0	0
1/11/2025 12:45	60803	BUCK_T1	3	3	0	0.73	0.93	0.2	0	0	0	0	0	0	0	0
1/11/2025 12:45	60801	BUCK_T1	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
1/11/2025 12:46	53901	HALI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/11/2025 12:46	64305	LINC_T1	0	0	0	0	0	0	-0.69	-0.73	0	0	0	0	0	0
1/11/2025 12:46	53903	HALI_T2	2	2	0	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
1/11/2025 12:46	53902	HALI_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
1/11/2025 12:58	53901	HALI_T2	1	0	-1	0.3	0	-0.3	-1.32	-1.34	0	0	0	0	0	0
1/11/2025 12:58	53903	HALI_T2	2	2	0	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
1/11/2025 12:58	53902	HALI_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
1/11/2025 13:00	64204	KINZ_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
1/11/2025 13:00	64203	KINZ_T1	0	0	0	0	0	0	-0.4	-0.37	1	1	0	600	600	0
1/11/2025 13:00	45501	DERR_T2	0	3	3	0	0	0	-0.42	-0.4	2	2	0	1800	1800	0
1/11/2025 13:01	45501	DERR_T2	0	3	3	0	0	0	-0.42	-0.4	2	2	0	1800	1800	0
1/11/2025 13:08	13904	SEID_T1	15	54	39	0.73	1.03	0.3	0	0	0	0	0	0	0	0
1/11/2025 13:08	13902	SEID_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/11/2025 13:08	13905	SEID_T1	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
1/11/2025 13:10	10805	CHHI_T2	1	1	0	7.6	7.9	0.3	-1.1	-1.11	1	1	0	600	600	0
1/11/2025 13:13	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 13:16	53501	EVIL_T2	2	1	-1	0.75	1.6	0.85	0	0	0	0	0	0	0	0
1/11/2025 13:18	13503	MCMI_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
1/11/2025 13:21	64101	REFR_T1	0	0	0	0	0	0	0.06	-0.02	0	0	0	0	0	0
1/11/2025 13:23	64101	REFR_T1	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
1/11/2025 13:24	64101	REFR_T1	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
1/11/2025 13:25	64101	REFR_T1	0	0	0	0	0	0	-0.02	0.02	0	0	0	0	0	0
1/11/2025 13:27	61001	DONV_T1	1	1	0	0.5	0.4	-0.1	-0.03	0.01	0	0	0	0	0	0
1/11/2025 13:29	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 13:34	64402	LAND_T2	0	0	0	0	0	0	-0.52	-0.46	1	1	0	600	600	0
1/11/2025 13:44	52403	GRPA_T2	2	4	2	0.35	0.25	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/11/2025 13:44	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 13:44	52404	GRPA_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
1/11/2025 13:46	12007	HATF_T1	0	0	0	0	0	0	0.13	0.12	1	1	0	1200	1200	0
1/11/2025 13:46	12001	HATF_T1	1	1	0	1.9	0	-1.9	0	0	0	0	0	0	0	0
1/11/2025 13:46	12005	HATF_T1	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
1/11/2025 13:46	12006	HATF_T1	2	2	0	1	0.15	-0.85	0	0	0	0	0	0	0	0
1/11/2025 13:46	12004	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/11/2025 13:52	64101	REFR_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
1/11/2025 13:53	64101	REFR_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
1/11/2025 14:06	14201	EALL_T1	0	0	0	0	0	0	0.7	0.65	0	0	0	0	0	0
1/11/2025 14:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 14:14	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 14:14	21501	CEAV_T2	4	1	-3	0.1	0	-0.1	-0.07	-0.23	1	1	0	1200	1200	0
1/11/2025 14:14	53501	EVIL_T2	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
1/11/2025 14:16	54504	ENOL_T2	0	0	0	0	0	0	-1.01	-1	1	1	0	600	600	0
1/11/2025 14:19	54201	PENN_T1	42	29	-13	0.43	0.44	0.01	0	0	0	0	0	0	0	0
1/11/2025 14:19	54203	PENN_T1	20	20	0	1.03	0.98	-0.05	0	0.02	0	0	0	0	0	0
1/11/2025 14:24	60803	BUCK_T1	2	3	1	1.1	0.87	-0.23	0	0	0	0	0	0	0	0
1/11/2025 14:24	60801	BUCK_T1	6	3	-3	0.12	0.1	-0.02	-0.21	-0.21	0	0	0	0	0	0
1/11/2025 14:24	64904	MILL_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
1/11/2025 14:29	53901	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/11/2025 14:29	53902	HALI_T2	1	1	0	5.3	5.3	0	-0.9	-0.87	0	0	0	0	0	0
1/11/2025 14:29	53903	HALI_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
1/11/2025 14:31	53901	HALI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/11/2025 14:31	53903	HALI_T2	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
1/11/2025 14:31	53902	HALI_T2	1	1	0	5	5.4	0.4	-1.8	-1.74	0	0	0	0	0	0
1/11/2025 14:33	53902	HALI_T2	1	1	0	5	5.4	0.4	-1.8	-1.74	0	0	0	0	0	0
1/11/2025 14:33	53901	HALI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/11/2025 14:33	53903	HALI_T2	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
1/11/2025 14:35	54201	PENN_T1	28	21	-7	0.45	0.5	0.05	-1.36	-1.38	0	0	0	0	0	0
1/11/2025 14:35	54203	PENN_T1	20	19	-1	0.97	0.96	-0.01	0.02	0.01	0	0	0	0	0	0
1/11/2025 14:36	58202	NEWV_T1	4	2	-2	0.15	0.15	0	-0.29	-0.34	0	0	0	0	0	0
1/11/2025 14:38	58202	NEWV_T1	4	2	-2	0.15	0.15	0	-0.29	-0.34	0	0	0	0	0	0
1/11/2025 14:54	64101	REFR_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
1/11/2025 14:56	61103	BERK_T5	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
1/11/2025 15:06	11104	EGYP_T1	1	18	17	0.1	0.17	0.07	0	0	0	0	0	0	0	0
1/11/2025 15:11	60201	ATGL_T2	139	128	-11	0.38	0.37	-0.01	-0.22	-0.25	0	0	0	0	0	0
1/11/2025 15:29	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
1/11/2025 15:29	63801	HEMP_T1	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
1/11/2025 15:30	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 15:30	40601	PIGR_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
1/11/2025 15:30	40603	PIGR_T1	1	5	4	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/11/2025 15:32	52403	GRPA_T2	3	8	5	0.87	0.56	-0.31	0	0	0	0	0	0	0	0
1/11/2025 15:32	52402	GRPA_T2	1	5	4	0.6	0.5	-0.1	-0.8	-0.81	0	0	0	0	0	0
1/11/2025 15:41	60102	COCA_T1	0	0	0	0	0	0	-0.7	-0.7	2	2	0	1200	1200	0
1/11/2025 15:42	16101	BING_T2	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
1/11/2025 15:42	16102	BING_T2	1	1	0	5	4	-1	0	0	0	0	0	0	0	0
1/11/2025 15:43	60104	COCA_T2	4	4	0	0.48	0.38	-0.1	0	0	0	0	0	0	0	0
1/11/2025 15:43	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 15:50	44701	MUNC_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 15:50	44703	MUNC_T2	2	2	0	0.4	0.4	0	-0.29	-0.26	0	0	0	0	0	0
1/11/2025 16:03	58401	MORO_T1	0	0	0	0	0	0	0	0	2	2	0	1500	1500	0
1/11/2025 16:06	58401	MORO_T1	0	0	0	0	0	0	0	0	2	2	0	1500	1500	0
1/11/2025 16:30	52403	GRPA_T2	2	10	8	0.35	0.63	0.28	0	0	0	0	0	0	0	0
1/11/2025 16:30	52402	GRPA_T2	3	7	4	0.5	0.8	0.3	-0.85	-0.79	0	0	0	0	0	0
1/11/2025 16:30	52404	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 18:26	44502	HAMI_T2	1	2	1	2.5	2.6	0.1	0.02	0.02	0	0	0	0	0	0
1/11/2025 18:26	44505	HAMI_T2	4	4	0	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
1/11/2025 18:41	26704	HEML_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
1/11/2025 18:46	22002	BOHE_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
1/11/2025 18:47	45501	DERR_T2	2	2	0	1.2	0.7	-0.5	-0.61	-0.61	2	2	0	1800	1800	0
1/11/2025 18:47	45502	DERR_T2	3	2	-1	1.03	0.9	-0.13	0	0	0	0	0	0	0	0
1/11/2025 18:49	41902	REED_T1	29	46	17	0.41	0.45	0.04	0	0	0	0	0	0	0	0
1/11/2025 18:49	40602	PIGR_T1	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/11/2025 18:49	41901	REED_T1	4	8	4	0.23	0.39	0.16	0	0	0	0	0	0	0	0
1/11/2025 18:49	41903	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 18:49	40603	PIGR_T1	40	12	-28	0.58	0.42	-0.16	0	0	0	0	0	0	0	0
1/11/2025 18:50	13902	SEID_T1	8	1	-7	0.35	0	-0.35	0	0	0	0	0	0	0	0
1/11/2025 18:50	13905	SEID_T1	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
1/11/2025 18:50	13904	SEID_T1	28	35	7	0.55	0.44	-0.11	0	0	0	0	0	0	0	0
1/11/2025 18:52	50105	HARR_T3	26	22	-4	2.89	3.28	0.39	0	0	0	0	0	0	0	0
1/11/2025 18:52	50106	HARR_T3	27	35	8	1.1	1.04	-0.06	0	0	0	0	0	0	0	0
1/11/2025 18:52	50201	HARR_T3	2	3	1	3.3	2.7	-0.6	0	0	0	0	0	0	0	0
1/11/2025 18:52	13105	NHAM_T2	17	7	-10	1.03	0	-1.03	0	0	0	0	0	0	0	0
1/11/2025 18:52	21501	CEAV_T2	1	1	0	0	0	0	-0.26	-0.26	1	1	0	1200	1200	0
1/11/2025 18:52	50103	HARR_T3	4	0	-4	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/11/2025 18:52	13103	NHAM_T2	0	0	0	0	0	0	-1.53	-1.53	1	1	0	600	600	0
1/11/2025 18:52	50202	HARR_T3	8	7	-1	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
1/11/2025 18:52	14201	EALL_T1	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
1/11/2025 18:52	13102	NHAM_T2	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
1/11/2025 18:53	60301	TWVA_T2	0	0	0	0	0	0	-3.2	-3.22	2	2	0	1800	1800	0
1/11/2025 18:54	13503	MCMI_T2	0	0	0	0	0	0	-0.5	-0.47	0	0	0	0	0	0
1/11/2025 18:54	16102	BING_T2	1	1	0	3	4.2	1.2	-0.03	-0.02	0	0	0	0	0	0
1/11/2025 18:54	52404	GRPA_T2	3	0	-3	0.53	0	-0.53	-0.19	-0.23	0	0	0	0	0	0
1/11/2025 18:54	52403	GRPA_T2	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/11/2025 18:54	53901	HALI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 18:54	54201	PENN_T1	9	28	19	0.93	0.5	-0.43	-1.4	-1.41	0	0	0	0	0	0
1/11/2025 18:54	52402	GRPA_T2	3	4	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
1/11/2025 18:54	54203	PENN_T1	18	18	0	0.82	1.07	0.25	0	0	0	0	0	0	0	0
1/11/2025 18:54	53902	HALI_T2	1	1	0	4.3	4.5	0.2	-0.86	-0.87	0	0	0	0	0	0
1/11/2025 18:56	53902	HALI_T2	1	1	0	4.3	4.5	0.2	-0.86	-0.87	0	0	0	0	0	0
1/11/2025 18:56	11102	EGYP_T1	0	10	10	0	0.4	0.4	0	0	0	0	0	0	0	0
1/11/2025 18:56	16101	BING_T2	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
1/11/2025 18:56	11103	EGYP_T1	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
1/11/2025 18:56	16102	BING_T2	1	1	0	3	4.2	1.2	0	0	0	0	0	0	0	0
1/11/2025 18:56	53901	HALI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 18:56	11104	EGYP_T1	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
1/11/2025 18:56	16103	BING_T2	0	0	0	0	0	0	-2.15	-2.16	2	2	0	1500	1500	0
1/11/2025 18:57	63501	HEID_TBK1-2	4	24	20	0.18	0.3	0.12	0	0	0	0	0	0	0	0
1/11/2025 18:58	64203	KINZ_T1	4	2	-2	1.23	0	-1.23	0	0	0	0	0	0	0	0
1/11/2025 18:58	64204	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/11/2025 18:58	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/11/2025 18:58	65004	NEFF_T2	0	0	0	0	0	0	-1.04	-1.02	1	1	0	600	600	0
1/11/2025 18:58	65001	NEFF_T2	196	212	16	0.23	0.27	0.04	0	0	0	0	0	0	0	0
1/11/2025 18:58	64201	KINZ_T1	0	0	0	0	0	0	-0.68	-0.68	3	3	0	1500	1500	0
1/11/2025 18:58	63501	HEID_TBK1-2	4	24	20	0.18	0.3	0.12	-0.38	-0.4	1	1	0	900	900	0
1/11/2025 18:59	52002	LING_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 18:59	64401	LAND_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	600	600	0
1/11/2025 18:59	52004	LING_T2	2	2	0	3.8	4.1	0.3	0.24	0.21	0	0	0	0	0	0
1/11/2025 18:59	63501	HEID_TBK1-2	4	24	20	0.18	0.3	0.12	-0.38	-0.4	1	1	0	900	900	0
1/11/2025 19:00	53903	HALI_T2	0	2	2	0	0.1	0.1	-0.17	-0.16	0	0	0	0	0	0
1/11/2025 19:00	52004	LING_T2	2	3	1	3.85	4.15	0.3	0	0	0	0	0	0	0	0
1/11/2025 19:00	13303	ORVI_T1	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
1/11/2025 19:00	53901	HALI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 19:00	12004	HATF_T1	3	9	6	0.1	0.18	0.08	0	0	0	0	0	0	0	0
1/11/2025 19:00	29402	BELT_T1	1	5	4	3.6	2	-1.6	0	0	0	0	0	0	0	0
1/11/2025 19:00	52002	LING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/11/2025 19:00	52001	LING_T1	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
1/11/2025 19:00	12005	HATF_T1	2	3	1	0.45	0.65	0.2	0	0	0	0	0	0	0	0
1/11/2025 19:00	54203	PENN_T1	18	18	0	1.01	1.06	0.05	-0.67	0	1	0	-1	600	0	-600
1/11/2025 19:00	63501	HEID_TBK1-2	23	18	-5	0.3	0.2	-0.1	-0.38	-0.4	1	1	0	900	900	0
1/11/2025 19:00	54201	PENN_T1	25	26	1	0.5	0.52	0.02	0	0	0	0	0	0	0	0
1/11/2025 19:00	12006	HATF_T1	2	2	0	1.55	1.1	-0.45	0.32	0.31	0	0	0	0	0	0
1/11/2025 19:00	53902	HALI_T2	1	1	0	4.3	4.5	0.2	-0.86	-0.87	0	0	0	0	0	0
1/11/2025 19:01	53901	HALI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 19:01	53903	HALI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/11/2025 19:01	64305	LINC_T1	0	0	0	0	0	0	-0.57	-0.66	0	0	0	0	0	0
1/11/2025 19:01	53902	HALI_T2	1	1	0	4.3	4.5	0.2	-0.86	-0.87	0	0	0	0	0	0
1/11/2025 19:01	60102	COCA_T1	0	0	0	0	0	0	-1.27	-1.1	2	2	0	1200	1200	0
1/11/2025 19:02	45502	DERR_T2	2	1	-1	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
1/11/2025 19:02	53501	EVIL_T2	0	0	0	0	0	0	-0.61	-0.55	0	0	0	0	0	0
1/11/2025 19:02	60201	ATGL_T2	0	5	5	0	0.16	0.16	-0.22	-0.27	0	0	0	0	0	0
1/11/2025 19:02	53902	HALI_T2	1	1	0	4.3	4.5	0.2	-0.86	-0.87	0	0	0	0	0	0
1/11/2025 19:02	53903	HALI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/11/2025 19:02	13904	SEID_T1	35	29	-6	0.51	0.51	0	0	0	0	0	0	0	0	0
1/11/2025 19:02	45501	DERR_T2	2	3	1	0.7	0.75	0.05	-0.61	-0.61	2	2	0	1800	1800	0
1/11/2025 19:02	64401	LAND_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	600	600	0
1/11/2025 19:02	13902	SEID_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/11/2025 19:02	53901	HALI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 19:03	56501	ROCK_T2	1	2	1	2.2	0.9	-1.3	-1.61	-1.61	0	0	0	0	0	0
1/11/2025 19:03	64402	LAND_T2	0	0	0	0	0	0	-0.58	-0.58	1	1	0	600	600	0
1/11/2025 19:03	53501	EVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 19:04	53903	HALI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/11/2025 19:04	61802	EELI_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
1/11/2025 19:04	66303	MCGO_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/11/2025 19:04	44701	MUNC_T2	11	3	-8	0.37	0.15	-0.22	0	0	0	0	0	0	0	0
1/11/2025 19:04	66302	MCGO_T2	0	0	0	0	0	0	-1.44	-1.46	1	1	0	600	600	0
1/11/2025 19:04	53902	HALI_T2	1	1	0	4.3	4.5	0.2	0	0	0	0	0	0	0	0
1/11/2025 19:04	53901	HALI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 19:04	44703	MUNC_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/11/2025 19:04	65804	RTWN_T1	0	0	0	0	0	0	-0.03	-0.05	1	1	0	600	600	0
1/11/2025 19:05	53903	HALI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/11/2025 19:05	53902	HALI_T2	1	1	0	4.3	4.5	0.2	0	0	0	0	0	0	0	0
1/11/2025 19:05	55002	NEWP_T1	2	4	2	0.2	0.5	0.3	-0.18	-0.19	0	0	0	0	0	0
1/11/2025 19:05	53901	HALI_T2	0	1	1	0	0	0	-1.36	-1.37	0	0	0	0	0	0
1/11/2025 19:06	63501	HEID_TBK1-2	23	18	-5	0.3	0.2	-0.1	-0.38	-0.4	1	1	0	900	900	0
1/11/2025 19:06	54506	ENOL_T2	0	0	0	0	0	0	-0.94	-0.96	1	1	0	600	600	0
1/11/2025 19:07	54203	PENN_T1	18	18	0	1.01	1.06	0.05	0	0.01	0	0	0	0	0	0
1/11/2025 19:07	55101	WERT_T1	0	0	0	0	0	0	-1.92	-1.88	2	2	0	1500	1500	0
1/11/2025 19:07	54201	PENN_T1	25	26	1	0.5	0.52	0.02	0	0	0	0	0	0	0	0
1/11/2025 19:07	64101	REFR_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
1/11/2025 19:07	60801	BUCK_T1	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
1/11/2025 19:08	61001	DONV_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/11/2025 19:08	16101	BING_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 19:08	16102	BING_T2	1	1	0	4.2	3.8	-0.4	0	0	0	0	0	0	0	0
1/11/2025 19:08	64403	LAND_T1	0	0	0	0	0	0	-1.98	-1.97	1	1	0	900	900	0
1/11/2025 19:08	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 19:08	10805	CHHI_T2	1	1	0	7.9	8	0.1	-1.05	-1.07	1	1	0	600	600	0
1/11/2025 19:08	61103	BERK_T5	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
1/11/2025 19:09	52403	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/11/2025 19:09	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 19:09	61802	EELI_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
1/11/2025 19:09	61702	ELIZ_T2	0	0	0	0	0	0	-0.67	-0.63	1	1	0	300	300	0
1/11/2025 19:09	52402	GRPA_T2	1	4	3	0.9	0.1	-0.8	-0.95	-0.8	0	0	0	0	0	0
1/11/2025 19:10	64402	LAND_T2	0	0	0	0	0	0	-0.58	-0.58	1	1	0	600	600	0
1/11/2025 19:10	64101	REFR_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
1/11/2025 19:10	63801	HEMP_T1	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
1/11/2025 19:10	63804	HEMP_T1	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
1/11/2025 19:10	10801	CHHI_T1	0	0	0	0	0	0	-2.03	-1.99	3	3	0	2100	2100	0
1/11/2025 19:11	57304	MOAL_T2	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
1/11/2025 19:11	63501	HEID_TBK1-2	23	18	-5	0.3	0.2	-0.1	-0.4	-0.37	1	1	0	900	900	0
1/11/2025 19:11	57303	MOAL_T2	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
1/11/2025 19:11	64101	REFR_T1	0	0	0	0	0	0	0.16	0.12	0	0	0	0	0	0
1/11/2025 19:12	66505	SMAN_T2	3	3	0	0.73	0.83	0.1	0	0	0	0	0	0	0	0
1/11/2025 19:12	11102	EGYP_T1	6	10	4	0.4	0.86	0.46	0	0	0	0	0	0	0	0
1/11/2025 19:12	58402	MORO_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/11/2025 19:12	64202	KINZ_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/11/2025 19:12	11104	EGYP_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/11/2025 19:12	64203	KINZ_T1	0	2	2	0	0.1	0.1	-0.4	-0.36	1	1	0	600	600	0
1/11/2025 19:12	64204	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/11/2025 19:12	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 19:12	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 19:12	58401	MORO_T1	0	1	1	0	0.4	0.4	0	0	2	2	0	1500	1500	0
1/11/2025 19:12	63501	HEID_TBK1-2	23	18	-5	0.3	0.2	-0.1	-0.4	-0.37	1	1	0	900	900	0
1/11/2025 19:13	66302	MCGO_T2	0	0	0	0	0	0	-1.46	-0.86	1	0	-1	600	0	-600
1/11/2025 19:13	64101	REFR_T1	0	0	0	0	0	0	0.16	0.12	0	0	0	0	0	0
1/11/2025 19:13	66303	MCGO_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/11/2025 19:14	64101	REFR_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
1/11/2025 19:15	61701	ELIZ_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
1/11/2025 19:15	58202	NEWV_T1	2	4	2	0.2	0.23	0.03	-0.28	-0.27	0	0	0	0	0	0
1/11/2025 19:16	58202	NEWV_T1	2	4	2	0.2	0.23	0.03	-0.28	-0.27	0	0	0	0	0	0
1/11/2025 19:16	55101	WERT_T1	0	0	0	0	0	0	-1.92	-1.88	2	2	0	1500	1500	0
1/11/2025 19:17	64101	REFR_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
1/11/2025 19:18	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 19:18	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/11/2025 19:18	52403	GRPA_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
1/11/2025 19:18	52402	GRPA_T2	4	6	2	0.5	0.1	-0.4	-0.95	-0.8	0	0	0	0	0	0
1/11/2025 19:19	64904	MILL_T1	0	0	0	0	0	0	-0.21	-0.26	0	0	0	0	0	0
1/12/2025 8:24	16101	BING_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
1/12/2025 8:24	16102	BING_T2	1	1	0	4	2.9	-1.1	0	0	0	0	0	0	0	0
1/12/2025 8:28	45502	DERR_T2	3	6	3	0.83	0.4	-0.43	0	0	0	0	0	0	0	0
1/12/2025 8:28	45501	DERR_T2	2	3	1	0.35	0	-0.35	-0.75	-0.81	2	2	0	1800	1800	0
1/12/2025 8:46	63305	GREE_T1	11	15	4	0.38	0.33	-0.05	-2.62	-2.62	1	1	0	900	900	0
1/12/2025 8:46	63301	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 8:46	63306	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/12/2025 8:46	63304	GREE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 8:48	63304	GREE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 8:48	63301	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 8:48	63306	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/12/2025 8:48	63305	GREE_T1	11	15	4	0.38	0.33	-0.05	-2.62	-2.62	1	1	0	900	900	0
1/12/2025 8:48	13503	MCMI_T2	0	1	1	0	0	0	-0.61	0.35	0	0	0	0	0	0
1/12/2025 8:50	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 8:50	16102	BING_T2	1	1	0	2.9	5	2.1	0	0	0	0	0	0	0	0
1/12/2025 8:53	44901	SCOT_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
1/12/2025 8:53	44902	SCOT_T2	0	182	182	0	0.21	0.21	-0.99	-0.95	0	0	0	0	0	0
1/12/2025 8:56	45501	DERR_T2	0	0	0	0	0	0	-0.76	-0.83	2	2	0	1800	1800	0
1/12/2025 8:56	45502	DERR_T2	2	2	0	0.4	1.85	1.45	0	0	0	0	0	0	0	0
1/12/2025 9:00	28102	TWLA_T2	1	1	0	0.3	0	-0.3	0.25	0.26	0	0	0	0	0	0
1/12/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
1/12/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.38	0.33	0	0	0	0	0	0
1/12/2025 9:00	63501	HEID_TBK1-2	58	90	32	0.47	0.47	0	-0.51	-0.55	1	1	0	900	900	0
1/12/2025 9:03	65502	MOJO_T2	0	0	0	0	0	0	-1.05	-0.93	0	0	0	0	0	0
1/12/2025 9:03	65401	MARI_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
1/12/2025 9:04	65503	MOJO_T2	0	0	0	0	0	0	-1.48	-1.48	1	1	0	900	900	0
1/12/2025 9:05	65502	MOJO_T2	0	0	0	0	0	0	-1.05	-0.93	0	0	0	0	0	0
1/12/2025 9:05	65401	MARI_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
1/12/2025 9:06	65401	MARI_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
1/12/2025 9:08	65802	RTWN_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
1/12/2025 9:08	65803	RTWN_T2	19	31	12	0.27	0.33	0.06	0	0	0	0	0	0	0	0
1/12/2025 9:10	45502	DERR_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
1/12/2025 9:10	45501	DERR_T2	0	0	0	0	0	0	-0.83	-0.8	2	2	0	1800	1800	0
1/12/2025 9:11	45502	DERR_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
1/12/2025 9:11	45501	DERR_T2	0	0	0	0	0	0	-0.83	-0.8	2	2	0	1800	1800	0
1/12/2025 9:12	61001	DONV_T1	0	0	0	0	0	0	0.66	0.6	0	0	0	0	0	0
1/12/2025 9:16	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 9:17	64201	KINZ_T1	1	7	6	0.1	0.26	0.16	0	0	0	0	0	0	0	0
1/12/2025 9:17	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
1/12/2025 9:17	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 9:17	64202	KINZ_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/12/2025 9:17	64204	KINZ_T1	1	4	3	0.4	0.45	0.05	0	0	0	0	0	0	0	0
1/12/2025 9:17	63801	HEMP_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
1/12/2025 9:18	64203	KINZ_T1	0	0	0	0	0	0	-0.46	-0.45	1	1	0	600	600	0
1/12/2025 9:18	64204	KINZ_T1	1	4	3	0.4	0.45	0.05	0	0	0	0	0	0	0	0
1/12/2025 9:18	64201	KINZ_T1	1	7	6	0.1	0.26	0.16	0	0	0	0	0	0	0	0
1/12/2025 9:18	64202	KINZ_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/12/2025 9:22	65205	PRIN_T1	1	1	0	1.8	1.2	-0.6	0	0	0	0	0	0	0	0
1/12/2025 9:22	65202	PRIN_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
1/12/2025 9:26	61801	EELI_T2	2	4	2	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
1/12/2025 9:26	61802	EELI_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
1/12/2025 9:28	44301	BEAV_T2	2	1	-1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
1/12/2025 9:28	61001	DONV_T1	0	0	0	0	0	0	0.6	0.55	0	0	0	0	0	0
1/12/2025 9:28	26704	HEML_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
1/12/2025 9:29	63501	HEID_TBK1-2	58	95	37	0.49	0.47	-0.02	0	0	0	0	0	0	0	0
1/12/2025 9:30	61802	EELI_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
1/12/2025 9:30	61801	EELI_T2	4	3	-1	0.48	0.57	0.09	0	0	0	0	0	0	0	0
1/12/2025 9:30	41902	REED_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 9:30	41903	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 9:30	41901	REED_T1	8	8	0	0.68	0.68	0	0	0	0	0	0	0	0	0
1/12/2025 9:31	63501	HEID_TBK1-2	90	81	-9	0.47	0.5	0.03	-0.5	-0.49	1	1	0	900	900	0
1/12/2025 9:32	63305	GREE_T1	15	8	-7	0.35	0.39	0.04	-2.62	-2.66	1	1	0	900	900	0
1/12/2025 9:32	63302	GREE_T1	1	1	0	7.3	1.2	-6.1	0	0	0	0	0	0	0	0
1/12/2025 9:32	63304	GREE_T1	14	1	-13	0.1	0.1	0	0	0	0	0	0	0	0	0
1/12/2025 9:32	63306	GREE_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/12/2025 9:33	63501	HEID_TBK1-2	90	81	-9	0.47	0.5	0.03	-0.5	-0.49	1	1	0	900	900	0
1/12/2025 9:34	27605	PIRI_T2	0	0	0	0	0	0	-0.73	-0.7	1	1	0	900	900	0
1/12/2025 9:34	57201	ROSS_T1	0	0	0	0	0	0	-1.12	-1.08	0	0	0	0	0	0
1/12/2025 9:35	52502	PROG_T2	0	0	0	0	0	0	-0.39	-0.39	1	1	0	900	900	0
1/12/2025 9:36	66302	MCGO_T2	0	1	1	0	0.5	0.5	-1.68	-1.73	0	0	0	0	0	0
1/12/2025 9:36	66303	MCGO_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
1/12/2025 9:36	54201	PENN_T1	14	48	34	0.6	0.37	-0.23	0	0	0	0	0	0	0	0
1/12/2025 9:36	54203	PENN_T1	18	18	0	0.86	1.13	0.27	0.01	0.03	0	0	0	0	0	0
1/12/2025 9:36	44202	POIN_T2	0	1	1	0	0.1	0.1	-0.89	-0.91	1	1	0	1200	1200	0
1/12/2025 9:36	14201	EALL_T1	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
1/12/2025 9:37	65901	SAKR_T2	0	0	0	0	0	0	-1.71	-1.73	2	2	0	1500	1500	0
1/12/2025 9:37	57201	ROSS_T1	0	0	0	0	0	0	-1.08	-1.09	0	0	0	0	0	0
1/12/2025 9:37	52502	PROG_T2	0	0	0	0	0	0	-0.39	-0.44	1	1	0	900	900	0
1/12/2025 9:38	54203	PENN_T1	18	18	0	0.86	1.13	0.27	0	0	0	0	0	0	0	0
1/12/2025 9:38	54201	PENN_T1	14	48	34	0.6	0.37	-0.23	-1.38	-1.37	0	0	0	0	0	0
1/12/2025 9:38	10801	CHHI_T1	0	1	1	0	0.1	0.1	-1.49	-1.46	2	2	0	1500	1500	0
1/12/2025 9:40	21501	CEAV_T2	1	1	0	0	0	0	1.32	1.03	0	0	0	0	0	0
1/12/2025 9:42	62106	ELAN_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
1/12/2025 9:42	29402	BELT_T1	11	49	38	0.61	0.47	-0.14	0	0	0	0	0	0	0	0
1/12/2025 9:43	46203	DANV_T2	0	0	0	0	0	0	-1.76	-1.75	0	0	0	0	0	0
1/12/2025 9:43	46204	DANV_T2	3	6	3	0.23	0	-0.23	0	0	0	0	0	0	0	0
1/12/2025 9:43	46206	DANV_T2	11	15	4	0.49	0.34	-0.15	0	0	0	0	0	0	0	0
1/12/2025 9:44	46206	DANV_T2	11	15	4	0.49	0.34	-0.15	0	0	0	0	0	0	0	0
1/12/2025 9:44	46204	DANV_T2	3	6	3	0.23	0	-0.23	0	0	0	0	0	0	0	0
1/12/2025 9:44	45501	DERR_T2	0	0	0	0	0	0	-0.83	-0.81	2	2	0	1800	1800	0
1/12/2025 9:44	63501	HEID_TBK1-2	90	81	-9	0.47	0.5	0.03	-0.49	-0.51	1	1	0	900	900	0
1/12/2025 9:44	45502	DERR_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/12/2025 9:44	46203	DANV_T2	0	0	0	0	0	0	-1.76	-1.75	0	0	0	0	0	0
1/12/2025 9:44	11903	ETEX_T1	0	0	0	0	0	0	0.5	0.38	0	0	0	0	0	0
1/12/2025 9:46	12005	HATF_T1	3	4	1	0.27	0.35	0.08	0	0	0	0	0	0	0	0
1/12/2025 9:46	12006	HATF_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 9:46	11903	ETEX_T1	0	0	0	0	0	0	0.5	0.38	0	0	0	0	0	0
1/12/2025 9:46	12007	HATF_T1	0	0	0	0	0	0	0.09	0.09	1	1	0	1200	1200	0
1/12/2025 9:46	12004	HATF_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
1/12/2025 9:48	63501	HEID_TBK1-2	79	55	-24	0.5	0.56	0.06	-0.98	-1.02	2	2	0	1800	1800	0
1/12/2025 9:48	54506	ENOL_T2	0	0	0	0	0	0	-1.05	0.35	1	1	0	600	600	0
1/12/2025 9:48	54505	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/12/2025 9:49	40101	HUNT_T2	497	497	0	1.25	1.03	-0.22	-1.31	-1.3	0	0	0	0	0	0
1/12/2025 9:50	29402	BELT_T1	49	33	-16	0.46	0.5	0.04	0	0	0	0	0	0	0	0
1/12/2025 9:51	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/12/2025 9:51	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 9:52	13303	ORVI_T1	0	0	0	0	0	0	0.63	0.66	0	0	0	0	0	0
1/12/2025 9:53	67002	STHI_T2	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
1/12/2025 9:53	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/12/2025 9:54	42504	ALTA_T2	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
1/12/2025 9:54	67002	STHI_T2	0	0	0	0	0	0	1.91	1.89	0	0	0	0	0	0
1/12/2025 9:54	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/12/2025 9:54	42501	ALTA_T2	1	0	-1	0.1	0	-0.1	-1.3	-1.35	1	1	0	600	600	0
1/12/2025 9:55	67002	STHI_T2	0	0	0	0	0	0	1.28	1.26	0	0	0	0	0	0
1/12/2025 9:55	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/12/2025 9:56	43304	WATS_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
1/12/2025 9:57	45501	DERR_T2	0	0	0	0	0	0	-0.81	-0.83	2	2	0	1800	1800	0
1/12/2025 10:02	13503	MCMI_T2	1	0	-1	0.3	0	-0.3	0.37	0.36	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/12/2025 10:04	52004	LING_T2	3	2	-1	3.07	4.75	1.68	0	0	0	0	0	0	0	0
1/12/2025 10:04	52002	LING_T2	0	0	0	0	0	0	-0.15	-0.21	0	0	0	0	0	0
1/12/2025 10:10	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 10:11	61103	BERK_T5	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
1/12/2025 10:14	41301	FISH_T1	2	3	1	0.75	1.23	0.48	-0.8	-0.81	0	0	0	0	0	0
1/12/2025 10:14	61103	BERK_T5	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
1/12/2025 10:17	66303	MCGO_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
1/12/2025 10:17	66302	MCGO_T2	1	1	0	0.6	0.8	0.2	-1.78	-1.76	0	0	0	0	0	0
1/12/2025 10:18	54203	PENN_T1	18	20	2	0.61	0.8	0.19	0	0	0	0	0	0	0	0
1/12/2025 10:18	54201	PENN_T1	7	14	7	0.94	0.75	-0.19	0	0	0	0	0	0	0	0
1/12/2025 10:18	64402	LAND_T2	0	0	0	0	0	0	-0.55	-0.59	1	1	0	600	600	0
1/12/2025 10:18	22602	KIMB_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
1/12/2025 10:21	43201	MVIL_T2	1	0	-1	2.3	0	-2.3	-1.27	-1.28	0	0	0	0	0	0
1/12/2025 10:21	43202	MVIL_T2	2	4	2	1	1.4	0.4	0	0	0	0	0	0	0	0
1/12/2025 10:22	13702	SCHN_T1	0	0	0	0	0	0	0.59	0.53	0	0	0	0	0	0
1/12/2025 10:24	13702	SCHN_T1	0	0	0	0	0	0	0.59	0.53	0	0	0	0	0	0
1/12/2025 10:25	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 10:25	43801	SWIL_T1	9	14	5	0.78	0.6	-0.18	0	0	0	0	0	0	0	0
1/12/2025 10:26	60201	ATGL_T2	3	5	2	0.13	0.14	0.01	0.59	0.59	0	0	0	0	0	0
1/12/2025 10:28	62105	ELAN_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
1/12/2025 10:28	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 10:28	20601	GRWO_T2	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
1/12/2025 10:28	20603	GRWO_T2	11	16	5	0.2	0.34	0.14	0	0	0	0	0	0	0	0
1/12/2025 10:30	46802	HEPB_T1	1	2	1	0.4	0.3	-0.1	-1.19	-1.23	0	0	0	0	0	0
1/12/2025 10:31	46803	HEPB_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/12/2025 10:31	53903	HALI_T2	3	2	-1	1.1	0.95	-0.15	0	0	0	0	0	0	0	0
1/12/2025 10:31	53902	HALI_T2	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
1/12/2025 10:31	46801	HEPB_T2	1	2	1	0.2	0.5	0.3	0.65	0.64	0	0	0	0	0	0
1/12/2025 10:31	53901	HALI_T2	1	1	0	0.2	0.3	0.1	-1.29	-1.32	0	0	0	0	0	0
1/12/2025 10:34	65502	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 10:34	65503	MOJO_T2	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
1/12/2025 10:35	22602	KIMB_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
1/12/2025 10:36	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 10:37	65502	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 10:37	65503	MOJO_T2	0	5	5	0	0.14	0.14	-3.01	-3.03	2	2	0	1800	1800	0
1/12/2025 10:39	22003	BOHE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 10:39	60803	BUCK_T1	8	15	7	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/12/2025 10:39	22002	BOHE_T1	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
1/12/2025 10:39	60801	BUCK_T1	15	31	16	0.17	0.29	0.12	-0.18	-0.16	0	0	0	0	0	0
1/12/2025 10:41	60801	BUCK_T1	15	31	16	0.17	0.29	0.12	-0.18	-0.16	0	0	0	0	0	0
1/12/2025 10:41	46206	DANV_T2	1	5	4	0.2	0.15	-0.05	1.66	1.65	2	2	0	2100	2100	0
1/12/2025 10:41	46204	DANV_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/12/2025 10:41	60803	BUCK_T1	8	15	7	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/12/2025 10:43	46206	DANV_T2	1	5	4	0.2	0.15	-0.05	1.66	1.65	2	2	0	2100	2100	0
1/12/2025 10:43	46204	DANV_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/12/2025 10:45	60803	BUCK_T1	11	13	2	0.28	0.45	0.17	0	0	0	0	0	0	0	0
1/12/2025 10:45	46204	DANV_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
1/12/2025 10:45	60801	BUCK_T1	15	33	18	0.21	0.29	0.08	-0.18	-0.16	0	0	0	0	0	0
1/12/2025 10:45	46206	DANV_T2	2	6	4	0.15	0.58	0.43	1.66	1.65	2	2	0	2100	2100	0
1/12/2025 10:46	17804	GILB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/12/2025 10:46	17805	GILB_T2	0	0	0	0	0	0	0.12	0.2	0	0	0	0	0	0
1/12/2025 10:46	17803	GILB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/12/2025 10:49	58202	NEWV_T1	6	9	3	0.2	0.31	0.11	-0.21	-0.21	0	0	0	0	0	0
1/12/2025 10:50	52502	PROG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/12/2025 10:51	58202	NEWV_T1	6	9	3	0.2	0.31	0.11	-0.21	-0.19	0	0	0	0	0	0
1/12/2025 10:51	66505	SMAN_T2	0	0	0	0	0	0	-0.16	-0.31	1	1	0	900	900	0
1/12/2025 10:52	66505	SMAN_T2	0	0	0	0	0	0	-0.31	-0.18	1	1	0	900	900	0
1/12/2025 10:53	55105	WERT_T1	0	0	0	0	0	0	-0.55	-0.57	1	1	0	900	900	0
1/12/2025 10:53	47101	MARL_T1	29	37	8	0.47	0.59	0.12	-0.62	-0.63	0	0	0	0	0	0
1/12/2025 10:54	55105	WERT_T1	0	0	0	0	0	0	-0.55	-0.57	1	1	0	900	900	0
1/12/2025 10:54	24202	PROV_T4	0	0	0	0	0	0	-0.79	-0.83	1	1	0	1200	1200	0
1/12/2025 10:57	46004	BERW_T2	8	13	5	0.64	0.8	0.16	0	0	0	0	0	0	0	0
1/12/2025 10:57	46002	BERW_T2	0	0	0	0	0	0	-1.38	-1.46	1	1	0	900	900	0
1/12/2025 10:57	41301	FISH_T1	3	2	-1	1.1	0.95	-0.15	-0.82	-0.8	0	0	0	0	0	0
1/12/2025 10:57	60201	ATGL_T2	5	6	1	0.14	0.25	0.11	0.62	0.63	0	0	0	0	0	0
1/12/2025 10:59	40201	BEGA_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
1/12/2025 10:59	54203	PENN_T1	20	21	1	0.79	0.99	0.2	0	0	0	0	0	0	0	0
1/12/2025 10:59	54201	PENN_T1	14	28	14	0.74	0.46	-0.28	-1.37	-1.36	0	0	0	0	0	0
1/12/2025 11:00	10801	CHHI_T1	1	2	1	0.3	0.4	0.1	-1.49	-1.52	2	2	0	1500	1500	0
1/12/2025 11:02	29402	BELT_T1	52	46	-6	0.51	0.44	-0.07	0	0	0	0	0	0	0	0
1/12/2025 11:02	41301	FISH_T1	2	2	0	0.65	1.3	0.65	-0.82	-0.8	0	0	0	0	0	0
1/12/2025 11:02	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/12/2025 11:04	12005	HATF_T1	4	4	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/12/2025 11:04	12004	HATF_T1	6	8	2	0.12	0.13	0.01	0	0	0	0	0	0	0	0
1/12/2025 11:04	12003	HATF_T1	0	0	0	0	0	0	0.92	0.97	0	0	0	0	0	0
1/12/2025 11:04	12007	HATF_T1	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/12/2025 11:04	12006	HATF_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
1/12/2025 11:06	57205	ROSS_T1	1	1	0	0.2	0.5	0.3	-0.14	-0.18	0	0	0	0	0	0
1/12/2025 11:11	46203	DANV_T2	0	1	1	0	0	0	-1.81	-1.79	0	0	0	0	0	0
1/12/2025 11:11	46206	DANV_T2	5	6	1	0.58	0.88	0.3	0	0	0	0	0	0	0	0
1/12/2025 11:11	46204	DANV_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/12/2025 11:12	16302	ALPA_T2	1	1	0	0.3	0.4	0.1	-0.9	-0.89	0	0	0	0	0	0
1/12/2025 11:14	10801	CHHI_T1	1	2	1	0.3	0.4	0.1	-1.52	-1.48	2	2	0	1500	1500	0
1/12/2025 11:17	46602	LACR_T1	16	32	16	0.25	0.34	0.09	-0.8	-0.82	0	0	0	0	0	0
1/12/2025 11:18	64403	LAND_T1	0	0	0	0	0	0	-1.97	-1.81	1	1	0	900	900	0
1/12/2025 11:20	10801	CHHI_T1	2	1	-1	0.4	0.7	0.3	-1.52	-1.48	2	2	0	1500	1500	0
1/12/2025 11:20	64101	REFR_T1	0	3	3	0	0.23	0.23	-0.03	-0.15	0	0	0	0	0	0
1/12/2025 11:21	66203	SISP_T2	1	0	-1	0.2	0	-0.2	-0.89	-0.95	1	1	0	1200	1200	0
1/12/2025 11:21	44902	SCOT_T2	137	165	28	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
1/12/2025 11:21	44901	SCOT_T2	76	165	89	0.28	0.5	0.22	-0.44	-0.47	0	0	0	0	0	0
1/12/2025 11:21	64101	REFR_T1	0	3	3	0	0.23	0.23	-0.03	-0.15	0	0	0	0	0	0
1/12/2025 11:22	64101	REFR_T1	0	3	3	0	0.23	0.23	-0.2	-0.08	0	0	0	0	0	0
1/12/2025 11:23	43304	WATS_T2	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
1/12/2025 11:23	64101	REFR_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
1/12/2025 11:23	44901	SCOT_T2	76	165	89	0.28	0.5	0.22	-0.47	-0.4	0	0	0	0	0	0
1/12/2025 11:23	44902	SCOT_T2	137	165	28	0.2	0.17	-0.03	-0.9	-0.93	0	0	0	0	0	0
1/12/2025 11:24	44901	SCOT_T2	76	165	89	0.28	0.5	0.22	-0.47	-0.4	0	0	0	0	0	0
1/12/2025 11:24	41901	REED_T1	3	4	1	0.2	0.2	0	0	0	0	0	0	0	0	0
1/12/2025 11:24	66505	SMAN_T2	0	1	1	0	0.3	0.3	-0.41	-0.35	1	1	0	900	900	0
1/12/2025 11:24	66504	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/12/2025 11:24	41902	REED_T1	4	9	5	0.25	0.2	-0.05	1.01	0.92	0	0	0	0	0	0
1/12/2025 11:24	44902	SCOT_T2	137	165	28	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
1/12/2025 11:25	44902	SCOT_T2	137	165	28	0.2	0.17	-0.03	-0.9	-0.93	0	0	0	0	0	0
1/12/2025 11:25	44901	SCOT_T2	76	165	89	0.28	0.5	0.22	0	0	0	0	0	0	0	0
1/12/2025 11:29	46001	BERW_T1	0	0	0	0	0	0	0.65	0.59	0	0	0	0	0	0
1/12/2025 11:29	61803	EELI_T2	0	0	0	0	0	0	0.84	0.87	0	0	0	0	0	0
1/12/2025 11:29	61801	EELI_T2	6	8	2	0.57	0.59	0.02	0	0	0	0	0	0	0	0
1/12/2025 11:33	64201	KINZ_T1	1	4	3	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
1/12/2025 11:33	64202	KINZ_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/12/2025 11:33	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/12/2025 11:33	52402	GRPA_T2	4	4	0	0.28	0.3	0.02	0	0	0	0	0	0	0	0
1/12/2025 11:33	64203	KINZ_T1	1	2	1	0.5	0.45	-0.05	0.16	0.21	0	0	0	0	0	0
1/12/2025 11:33	64204	KINZ_T1	70	80	10	1.04	1.08	0.04	0	0	0	0	0	0	0	0
1/12/2025 11:33	52403	GRPA_T2	9	3	-6	0.66	0.63	-0.03	-0.24	-0.22	0	0	0	0	0	0
1/12/2025 11:35	40602	PIGR_T1	0	0	0	0	0	0	-1.83	-1.82	1	1	0	600	600	0
1/12/2025 11:36	40602	PIGR_T1	0	0	0	0	0	0	-1.83	-1.82	1	1	0	600	600	0
1/12/2025 11:42	16103	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/12/2025 11:42	16102	BING_T2	1	7	6	3.8	0.77	-3.03	-0.01	0.01	0	0	0	0	0	0
1/12/2025 11:44	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 11:44	43304	WATS_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
1/12/2025 11:44	44801	EDAN_T2	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
1/12/2025 11:46	44801	EDAN_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
1/12/2025 11:48	64305	LINC_T1	3	4	1	0.6	0.55	-0.05	-0.66	-0.61	0	0	0	0	0	0
1/12/2025 11:49	22805	HAUT_T2	70	70	0	1.5	1.45	-0.05	0	0	0	0	0	0	0	0
1/12/2025 11:49	22803	HAUT_T2	85	103	18	1.13	0.76	-0.37	0	0	0	0	0	0	0	0
1/12/2025 11:49	64305	LINC_T1	3	4	1	0.6	0.55	-0.05	-0.66	-0.61	0	0	0	0	0	0
1/12/2025 11:54	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 11:54	14603	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/12/2025 11:55	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 11:55	43304	WATS_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
1/12/2025 11:56	16103	BING_T2	1	0	-1	0.4	0	-0.4	-1.61	-1.63	1	1	0	900	900	0
1/12/2025 11:56	43304	WATS_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
1/12/2025 11:56	16102	BING_T2	5	4	-1	0.94	1.5	0.56	0	0	0	0	0	0	0	0
1/12/2025 11:56	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 11:57	43304	WATS_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
1/12/2025 11:57	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 11:58	40201	BEGA_T2	1	1	0	1.7	0	-1.7	0	0	0	0	0	0	0	0
1/12/2025 12:01	67402	WAKE_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
1/12/2025 12:01	67401	WAKE_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/12/2025 12:02	64302	LINC_T2	0	0	0	0	0	0	0.24	0.18	0	0	0	0	0	0
1/12/2025 12:02	64304	LINC_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/12/2025 12:05	64802	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 12:05	64305	LINC_T1	4	3	-1	0.55	0.57	0.02	-0.61	-0.72	0	0	0	0	0	0
1/12/2025 12:05	64801	MONE_T2	1	0	-1	0.1	0	-0.1	-0.63	-0.63	0	0	0	0	0	0
1/12/2025 12:05	65005	NEFF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/12/2025 12:05	65001	NEFF_T2	2	5	3	0.2	0.16	-0.04	-1.29	-1.33	1	1	0	1200	1200	0
1/12/2025 12:07	65005	NEFF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/12/2025 12:07	65001	NEFF_T2	2	5	3	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
1/12/2025 12:10	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 12:12	44802	EDAN_T2	0	1	1	0	0.1	0.1	-6.69	-6.76	0	0	0	0	0	0
1/12/2025 12:12	44801	EDAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/12/2025 12:13	44802	EDAN_T2	0	1	1	0	0.1	0.1	-2.23	-2.25	0	0	0	0	0	0
1/12/2025 12:13	44801	EDAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/12/2025 12:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 12:15	44801	EDAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/12/2025 12:15	46801	HEPB_T2	2	10	8	0.25	0.29	0.04	0.63	0.62	0	0	0	0	0	0
1/12/2025 12:15	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 12:15	44802	EDAN_T2	0	1	1	0	0.1	0.1	-2.23	-2.25	0	0	0	0	0	0
1/12/2025 12:15	46803	HEPB_T2	2	5	3	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
1/12/2025 12:16	44802	EDAN_T2	0	1	1	0	0.1	0.1	-2.23	-2.25	0	0	0	0	0	0
1/12/2025 12:16	44801	EDAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/12/2025 12:17	44801	EDAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/12/2025 12:17	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/12/2025 12:17	44802	EDAN_T2	0	1	1	0	0.1	0.1	-2.23	-2.25	0	0	0	0	0	0
1/12/2025 12:18	52004	LING_T2	2	2	0	5.1	5.2	0.1	0.07	0.11	0	0	0	0	0	0
1/12/2025 12:19	52004	LING_T2	2	2	0	5.1	5.2	0.1	0.07	0.11	0	0	0	0	0	0
1/12/2025 12:20	41001	LAUR_T2	49	66	17	0.25	0.31	0.06	0	0	0	0	0	0	0	0
1/12/2025 12:20	41002	LAUR_T2	8	11	3	0.43	0.39	-0.04	0.08	0.05	0	0	0	0	0	0
1/12/2025 12:21	41901	REED_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
1/12/2025 12:21	41902	REED_T1	8	2	-6	0.59	0	-0.59	0.87	0.97	0	0	0	0	0	0
1/12/2025 12:22	14603	SWHI_T1	0	0	0	0	0	0	-3.18	-3.16	4	4	0	2400	2400	0
1/12/2025 12:24	14603	SWHI_T1	0	0	0	0	0	0	-1.59	-1.58	2	2	0	1200	1200	0
1/12/2025 12:26	60801	BUCK_T1	33	43	10	0.34	0.44	0.1	0	0	0	0	0	0	0	0
1/12/2025 12:26	45602	WOOL_T1	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
1/12/2025 12:26	60803	BUCK_T1	16	20	4	0.49	0.54	0.05	-1.04	-1.02	2	2	0	1200	1200	0
1/12/2025 12:27	60803	BUCK_T1	16	20	4	0.49	0.54	0.05	0	0	0	0	0	0	0	0
1/12/2025 12:27	60801	BUCK_T1	33	43	10	0.34	0.44	0.1	-0.17	-0.15	0	0	0	0	0	0
1/12/2025 12:28	60803	BUCK_T1	16	20	4	0.49	0.54	0.05	0	0	0	0	0	0	0	0
1/12/2025 12:28	60801	BUCK_T1	33	43	10	0.34	0.44	0.1	0	0	0	0	0	0	0	0
1/12/2025 12:29	60803	BUCK_T1	16	20	4	0.49	0.54	0.05	-0.52	-0.51	1	1	0	600	600	0
1/12/2025 12:29	60801	BUCK_T1	33	43	10	0.34	0.44	0.1	-0.17	-0.15	0	0	0	0	0	0
1/12/2025 12:29	61701	ELIZ_T1	2	3	1	2.8	2.03	-0.77	0.73	0.7	0	0	0	0	0	0
1/12/2025 12:29	61703	ELIZ_T1	7	8	1	0.37	0.46	0.09	0	0	0	0	0	0	0	0
1/12/2025 12:30	60801	BUCK_T1	38	62	24	0.39	0.42	0.03	0	0	0	0	0	0	0	0
1/12/2025 12:30	60803	BUCK_T1	18	22	4	0.54	0.51	-0.03	-0.52	-0.51	1	1	0	600	600	0
1/12/2025 12:31	61801	EELI_T2	1	5	4	0.7	0.38	-0.32	-0.36	-0.35	0	0	0	0	0	0
1/12/2025 12:32	64202	KINZ_T1	4	0	-4	0.38	0	-0.38	0	0	0	0	0	0	0	0
1/12/2025 12:32	40902	JESH_T1	0	0	0	0	0	0	-1.4	-1.42	1	1	0	600	600	0
1/12/2025 12:32	64201	KINZ_T1	9	0	-9	0.32	0	-0.32	-0.38	-0.43	2	2	0	1200	1200	0
1/12/2025 12:32	60803	BUCK_T1	18	22	4	0.54	0.51	-0.03	-0.52	-0.51	1	1	0	600	600	0
1/12/2025 12:32	40901	JESH_T1	1	0	-1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
1/12/2025 12:32	64203	KINZ_T1	7	0	-7	0.24	0	-0.24	0	0	0	0	0	0	0	0
1/12/2025 12:32	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 12:32	64204	KINZ_T1	120	3	-117	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/12/2025 12:32	60801	BUCK_T1	38	62	24	0.39	0.42	0.03	0	0	0	0	0	0	0	0
1/12/2025 12:33	63601	LETO_T1	5	6	1	0.32	0.42	0.1	0.37	0.39	1	1	0	900	900	0
1/12/2025 12:33	63602	LETO_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/12/2025 12:34	64201	KINZ_T1	9	0	-9	0.32	0	-0.32	0	0	0	0	0	0	0	0
1/12/2025 12:34	64204	KINZ_T1	120	3	-117	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/12/2025 12:34	64203	KINZ_T1	7	0	-7	0.24	0	-0.24	0	0	0	0	0	0	0	0
1/12/2025 12:34	64202	KINZ_T1	4	0	-4	0.38	0	-0.38	0.72	0.68	0	0	0	0	0	0
1/12/2025 12:35	64203	KINZ_T1	7	0	-7	0.24	0	-0.24	0	0	0	0	0	0	0	0
1/12/2025 12:35	64204	KINZ_T1	120	3	-117	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/12/2025 12:35	64202	KINZ_T1	4	0	-4	0.38	0	-0.38	0	0	0	0	0	0	0	0
1/12/2025 12:35	63602	LETO_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/12/2025 12:35	63601	LETO_T1	5	6	1	0.32	0.42	0.1	0.37	0.39	1	1	0	900	900	0
1/12/2025 12:35	64201	KINZ_T1	9	0	-9	0.32	0	-0.32	-0.38	-0.43	2	2	0	1200	1200	0
1/12/2025 12:36	13704	SCHN_T2	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
1/12/2025 12:37	46004	BERW_T2	2	2	0	0.45	0.4	-0.05	-0.7	-0.74	0	0	0	0	0	0
1/12/2025 12:40	42503	ALTA_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
1/12/2025 12:41	40702	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 12:41	40701	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 12:42	61701	ELIZ_T1	3	3	0	2.03	2.1	0.07	0	0	0	0	0	0	0	0
1/12/2025 12:42	61703	ELIZ_T1	8	8	0	0.46	0.43	-0.03	-0.81	-0.89	1	1	0	900	900	0
1/12/2025 12:43	52402	GRPA_T2	2	1	-1	0.5	0.2	-0.3	-0.8	-0.78	0	0	0	0	0	0
1/12/2025 12:43	52403	GRPA_T2	16	2	-14	0.56	0.8	0.24	0	0	0	0	0	0	0	0
1/12/2025 12:43	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/12/2025 12:44	52403	GRPA_T2	16	2	-14	0.56	0.8	0.24	0	0	0	0	0	0	0	0
1/12/2025 12:44	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/12/2025 12:44	52402	GRPA_T2	2	1	-1	0.5	0.2	-0.3	-0.8	-0.78	0	0	0	0	0	0
1/12/2025 12:46	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 12:46	65402	MARI_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/12/2025 12:46	40702	FFLD_T1	1	0	-1	0.1	0	-0.1	-0.83	-0.8	0	0	0	0	0	0
1/12/2025 12:46	65401	MARI_T1	0	1	1	0	0.1	0.1	0.59	0.55	0	0	0	0	0	0
1/12/2025 12:58	52001	LING_T1	0	0	0	0	0	0	-1	-1.04	0	0	0	0	0	0
1/12/2025 13:00	61302	EARL_T1	1	2	1	0.4	0.65	0.25	0	0	0	0	0	0	0	0
1/12/2025 13:00	64403	LAND_T1	0	0	0	0	0	0	-1.92	-1.95	1	1	0	900	900	0
1/12/2025 13:00	61801	EELI_T2	4	5	1	0.35	0.38	0.03	-0.38	-0.38	0	0	0	0	0	0
1/12/2025 13:00	61304	EARL_T1	0	0	0	0	0	0	-1.01	-1.03	1	1	0	600	600	0
1/12/2025 13:02	58401	MORO_T1	0	0	0	0	0	0	0	0	2	2	0	1500	1500	0
1/12/2025 13:04	58401	MORO_T1	0	0	0	0	0	0	0	0	2	2	0	1500	1500	0
1/12/2025 13:06	58202	NEWV_T1	8	9	1	0.64	0.92	0.28	-0.23	-0.25	0	0	0	0	0	0
1/12/2025 13:07	58401	MORO_T1	0	0	0	0	0	0	0	0	2	1	-1	1500	600	-900
1/12/2025 13:09	44502	HAMI_T2	1	1	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
1/12/2025 13:09	57002	WHHI_T2	6	1	-5	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
1/12/2025 13:09	57006	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/12/2025 13:09	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 13:11	44502	HAMI_T2	1	1	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
1/12/2025 13:11	44505	HAMI_T2	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
1/12/2025 13:11	57006	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/12/2025 13:11	57002	WHHI_T2	6	1	-5	0.22	0.2	-0.02	-2.47	-2.46	1	1	0	1200	1200	0
1/12/2025 13:12	57006	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/12/2025 13:12	57002	WHHI_T2	6	1	-5	0.22	0.2	-0.02	-2.47	-2.46	1	1	0	1200	1200	0
1/12/2025 13:12	57001	WHHI_T2	0	0	0	0	0	0	-0.31	-0.34	1	1	0	900	900	0
1/12/2025 13:15	20603	GRWO_T2	0	0	0	0	0	0	0.52	0.45	0	0	0	0	0	0
1/12/2025 13:15	41304	FISH_T2	1	1	0	0	0	0	0.44	0.42	0	0	0	0	0	0
1/12/2025 13:16	64204	KINZ_T1	2	3	1	0.45	0.7	0.25	0	0	0	0	0	0	0	0
1/12/2025 13:16	52401	GRPA_T2	0	7	7	0	0.27	0.27	0	0	0	0	0	0	0	0
1/12/2025 13:16	52402	GRPA_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
1/12/2025 13:16	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 13:16	52403	GRPA_T2	2	11	9	0.9	0.71	-0.19	-0.18	-0.2	0	0	0	0	0	0
1/12/2025 13:17	52401	GRPA_T2	0	7	7	0	0.27	0.27	0	0	0	0	0	0	0	0
1/12/2025 13:17	52402	GRPA_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
1/12/2025 13:17	52403	GRPA_T2	2	11	9	0.9	0.71	-0.19	-0.18	-0.2	0	0	0	0	0	0
1/12/2025 13:19	42903	MIDD_T2	2	2	0	0.9	1.25	0.35	0	0	0	0	0	0	0	0
1/12/2025 13:19	42902	MIDD_T2	3	3	0	0.43	0.67	0.24	-0.7	-0.67	0	0	0	0	0	0
1/12/2025 13:21	42903	MIDD_T2	2	2	0	0.9	1.25	0.35	0	0	0	0	0	0	0	0
1/12/2025 13:21	42902	MIDD_T2	3	3	0	0.43	0.67	0.24	0	0	0	0	0	0	0	0
1/12/2025 13:28	12005	HATF_T1	3	3	0	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
1/12/2025 13:28	12006	HATF_T1	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
1/12/2025 13:32	66302	MCGO_T2	1	1	0	0.6	1	0.4	-0.93	-0.9	0	0	0	0	0	0
1/12/2025 13:32	66303	MCGO_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
1/12/2025 13:33	66303	MCGO_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
1/12/2025 13:33	66301	MCGO_T2	0	0	0	0	0	0	-2.54	-2.48	0	0	0	0	0	0
1/12/2025 13:33	66302	MCGO_T2	1	1	0	0.6	1	0.4	-0.93	-0.9	0	0	0	0	0	0
1/12/2025 13:34	52004	LING_T2	2	2	0	4.9	5	0.1	0.05	0.06	0	0	0	0	0	0
1/12/2025 13:34	13503	MCMI_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
1/12/2025 13:37	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 13:45	17802	GILB_T1	0	0	0	0	0	0	0.03	0.06	0	0	0	0	0	0
1/12/2025 13:49	52004	LING_T2	2	2	0	4.9	5	0.1	0	0	0	0	0	0	0	0
1/12/2025 13:54	44302	BEAV_T2	4	1	-3	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
1/12/2025 13:54	44301	BEAV_T2	4	13	9	0.2	0.2	0	-0.89	-0.93	1	1	0	600	600	0
1/12/2025 13:55	42701	AUGU_T1	0	1	1	0	0.6	0.6	0	0	2	2	0	1800	1800	0
1/12/2025 13:58	42701	AUGU_T1	0	1	1	0	0.6	0.6	0	0	2	2	0	1800	1800	0
1/12/2025 13:59	52403	GRPA_T2	8	4	-4	0.75	1	0.25	-0.47	-0.43	0	0	0	0	0	0
1/12/2025 13:59	52401	GRPA_T2	7	2	-5	0.23	0.15	-0.08	0	0	0	0	0	0	0	0
1/12/2025 13:59	52402	GRPA_T2	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
1/12/2025 14:01	24102	EHAZ_T1	29	51	22	0.97	0.47	-0.5	0.09	0.07	0	0	0	0	0	0
1/12/2025 14:01	24101	EHAZ_T1	73	70	-3	1.39	1.31	-0.08	0	0	0	0	0	0	0	0
1/12/2025 14:01	24103	EHAZ_T1	0	13	13	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 14:01	24105	EHAZ_T1	11	16	5	2.96	2.38	-0.58	0	0	0	0	0	0	0	0
1/12/2025 14:16	11104	EGYP_T1	1	3	2	0.1	0.3	0.2	0.31	0.31	0	0	0	0	0	0
1/12/2025 14:21	64305	LINC_T1	1	3	2	0.8	0.57	-0.23	-0.74	-0.8	0	0	0	0	0	0
1/12/2025 14:26	63401	HONY_T1	0	0	0	0	0	0	-0.51	-0.52	1	1	0	600	600	0
1/12/2025 14:26	63404	HONY_T1	2	26	24	0.15	0.2	0.05	0	0	0	0	0	0	0	0
1/12/2025 14:33	40101	HUNT_T2	278	399	121	0.75	0.82	0.07	-1.54	-1.53	0	0	0	0	0	0
1/12/2025 14:37	41901	REED_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/12/2025 14:37	41902	REED_T1	0	18	18	0	0	0	0.99	1	0	0	0	0	0	0
1/12/2025 14:47	52402	GRPA_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/12/2025 14:47	52403	GRPA_T2	3	1	-2	0.6	1.1	0.5	-0.24	-0.24	0	0	0	0	0	0
1/12/2025 14:47	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 14:55	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 15:08	13704	SCHN_T2	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
1/12/2025 15:17	63801	HEMP_T1	0	0	0	0	0	0	-0.28	0.11	0	0	0	0	0	0
1/12/2025 15:17	63804	HEMP_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 15:22	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
1/12/2025 15:25	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
1/12/2025 15:41	49803	UNIV_T1	1	1	0	5.5	5.9	0.4	-0.98	-1.02	0	0	0	0	0	0
1/12/2025 15:44	16102	BING_T2	0	0	0	0	0	0	0.48	0.51	0	0	0	0	0	0
1/12/2025 15:44	16102	BING_T2	1	1	0	3	3	0	0	0	0	0	0	0	0	0
1/12/2025 16:09	60301	TWVA_T2	0	0	0	0	0	0	-3.31	-3.32	2	2	0	1800	1800	0
1/12/2025 18:43	26704	HEML_T2	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
1/12/2025 18:53	46602	LACR_T1	1	6	5	0.1	0.2	0.1	-0.78	-0.76	0	0	0	0	0	0
1/12/2025 18:53	17805	GILB_T2	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
1/12/2025 18:53	17804	GILB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/12/2025 18:53	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 18:54	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.2	0	0	0	0	0	0
1/12/2025 18:56	14603	SWHI_T1	0	0	0	0	0	0	-1.55	-1.56	2	2	0	1200	1200	0
1/12/2025 18:56	27605	PIRI_T2	0	0	0	0	0	0	-0.61	-0.61	1	1	0	900	900	0
1/12/2025 18:58	16101	BING_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
1/12/2025 18:58	45501	DERR_T2	3	3	0	0.83	0.5	-0.33	-0.65	-0.66	2	2	0	1800	1800	0
1/12/2025 18:58	40901	JESH_T1	1	1	0	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
1/12/2025 18:58	46203	DANV_T2	7	11	4	0.59	0.85	0.26	-2.74	-2.71	0	0	0	0	0	0
1/12/2025 18:58	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 18:58	16302	ALPA_T2	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
1/12/2025 18:58	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 18:58	17805	GILB_T2	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
1/12/2025 18:58	17804	GILB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/12/2025 18:58	14201	EALL_T1	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
1/12/2025 18:58	46206	DANV_T2	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
1/12/2025 18:58	17802	GILB_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
1/12/2025 18:58	61001	DONV_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
1/12/2025 18:58	40902	JESH_T1	2	1	-1	1.45	0	-1.45	0	0	0	0	0	0	0	0
1/12/2025 18:59	64203	KINZ_T1	0	6	6	0	0	0	-0.47	-0.48	1	1	0	600	600	0
1/12/2025 18:59	64204	KINZ_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
1/12/2025 18:59	22003	BOHE_T1	219	233	14	0.43	0.48	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/12/2025 18:59	22001	BOHE_T1	110	128	18	0.34	0.35	0.01	0	0	0	0	0	0	0	0
1/12/2025 18:59	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.2	0	0	0	0	0	0
1/12/2025 18:59	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 18:59	46802	HEPB_T1	1	1	0	0.7	1	0.3	-1.2	-1.17	0	0	0	0	0	0
1/12/2025 18:59	22002	BOHE_T1	4	5	1	0.5	0.46	-0.04	0.36	0.34	0	0	0	0	0	0
1/12/2025 19:00	24102	EHAZ_T1	23	26	3	0.59	0.68	0.09	0.11	0.11	0	0	0	0	0	0
1/12/2025 19:00	46004	BERW_T2	8	3	-5	0.65	0.3	-0.35	0	0	0	0	0	0	0	0
1/12/2025 19:00	44902	SCOT_T2	10	205	195	0.13	0.31	0.18	0	0	0	0	0	0	0	0
1/12/2025 19:00	24101	EHAZ_T1	63	56	-7	0.81	1.12	0.31	0	0	0	0	0	0	0	0
1/12/2025 19:00	65001	NEFF_T2	0	1	1	0	0.1	0.1	-1.3	-1.35	1	1	0	1200	1200	0
1/12/2025 19:00	24105	EHAZ_T1	17	7	-10	2.15	6.33	4.18	0	0	0	0	0	0	0	0
1/12/2025 19:00	46801	HEPB_T2	0	2	2	0	0.2	0.2	0.63	0.64	0	0	0	0	0	0
1/12/2025 19:00	13303	ORVI_T1	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
1/12/2025 19:00	45501	DERR_T2	3	3	0	0.5	0.7	0.2	-0.65	-0.66	2	2	0	1800	1800	0
1/12/2025 19:00	46002	BERW_T2	0	0	0	0	0	0	-1.47	-1.48	1	1	0	900	900	0
1/12/2025 19:00	44901	SCOT_T2	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
1/12/2025 19:00	13503	MCMI_T2	1	0	-1	0.2	0	-0.2	-0.61	-0.58	0	0	0	0	0	0
1/12/2025 19:01	29402	BELT_T1	1	1	0	4	4.4	0.4	0	0	0	0	0	0	0	0
1/12/2025 19:01	46206	DANV_T2	0	0	0	0	0	0	0.6	0.46	2	2	0	2100	2100	0
1/12/2025 19:01	43304	WATS_T2	2	0	-2	0.55	0	-0.55	-0.23	-0.22	0	0	0	0	0	0
1/12/2025 19:01	46203	DANV_T2	7	14	7	0.57	0.77	0.2	0	0	0	0	0	0	0	0
1/12/2025 19:01	49803	UNIV_T1	6	1	-5	1.37	6	4.63	-0.93	-0.95	0	0	0	0	0	0
1/12/2025 19:01	44802	EDAN_T2	0	0	0	0	0	0	-6.54	-6.6	0	0	0	0	0	0
1/12/2025 19:01	49804	UNIV_T1	2	0	-2	1	0	-1	0	0	0	0	0	0	0	0
1/12/2025 19:01	44801	EDAN_T2	2	1	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/12/2025 19:02	42701	AUGU_T1	0	1	1	0	0.4	0.4	0	0	2	2	0	1800	1800	0
1/12/2025 19:02	16102	BING_T2	0	0	0	0	0	0	-0.08	-0.11	0	0	0	0	0	0
1/12/2025 19:02	12005	HATF_T1	3	3	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/12/2025 19:02	44802	EDAN_T2	0	0	0	0	0	0	-2.18	-2.2	0	0	0	0	0	0
1/12/2025 19:02	12006	HATF_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:02	12004	HATF_T1	0	14	14	0	0.16	0.16	0	0	0	0	0	0	0	0
1/12/2025 19:02	13503	MCMI_T2	1	0	-1	0.2	0	-0.2	-0.61	-0.58	0	0	0	0	0	0
1/12/2025 19:02	12001	HATF_T1	3	22	19	0.1	0.14	0.04	0	0	0	0	0	0	0	0
1/12/2025 19:02	44801	EDAN_T2	2	1	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/12/2025 19:02	12003	HATF_T1	0	0	0	0	0	0	0.87	0.85	0	0	0	0	0	0
1/12/2025 19:02	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:03	22805	HAUT_T2	73	55	-18	1.83	1.97	0.14	0	0	0	0	0	0	0	0
1/12/2025 19:03	24202	PROV_T4	0	0	0	0	0	0	-0.84	-0.81	1	1	0	1200	1200	0
1/12/2025 19:03	44901	SCOT_T2	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
1/12/2025 19:03	61701	ELIZ_T1	1	1	0	5.8	6.1	0.3	0.01	0.32	0	0	0	0	0	0
1/12/2025 19:03	22803	HAUT_T2	71	44	-27	1.36	0.73	-0.63	0	0	0	0	0	0	0	0
1/12/2025 19:03	65401	MARI_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
1/12/2025 19:03	46206	DANV_T2	0	0	0	0	0	0	0.6	0.46	2	2	0	2100	2100	0
1/12/2025 19:03	60801	BUCK_T1	0	0	0	0	0	0	-0.32	-0.4	0	0	0	0	0	0
1/12/2025 19:03	46203	DANV_T2	7	14	7	0.57	0.77	0.2	0	0	0	0	0	0	0	0
1/12/2025 19:03	45501	DERR_T2	3	3	0	0.5	0.7	0.2	-1.3	-1.32	4	4	0	3600	3600	0
1/12/2025 19:03	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/12/2025 19:03	29402	BELT_T1	1	1	0	4	4.4	0.4	0	0	0	0	0	0	0	0
1/12/2025 19:03	44501	HAMI_T2	1	10	9	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
1/12/2025 19:03	24206	PROV_T4	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/12/2025 19:03	44202	POIN_T2	0	0	0	0	0	0	-0.91	-0.91	1	1	0	1200	1200	0
1/12/2025 19:03	42503	ALTA_T2	3	4	1	0.53	0.2	-0.33	-0.57	-0.59	0	0	0	0	0	0
1/12/2025 19:03	44505	HAMI_T2	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
1/12/2025 19:03	44902	SCOT_T2	10	205	195	0.13	0.31	0.18	0	0	0	0	0	0	0	0
1/12/2025 19:03	44502	HAMI_T2	1	2	1	2.3	2.9	0.6	0	0	0	0	0	0	0	0
1/12/2025 19:03	65503	MOJO_T2	0	6	6	0	0.17	0.17	-1.55	-1.57	1	1	0	900	900	0
1/12/2025 19:03	41801	OOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:04	54203	PENN_T1	18	18	0	0.73	1	0.27	-0.04	-0.02	0	0	0	0	0	0
1/12/2025 19:04	11903	ETEX_T1	0	0	0	0	0	0	0.43	0.48	0	0	0	0	0	0
1/12/2025 19:04	60803	BUCK_T1	0	0	0	0	0	0	-0.49	-0.49	1	1	0	600	600	0
1/12/2025 19:04	65401	MARI_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
1/12/2025 19:04	40702	FFLD_T1	0	0	0	0	0	0	-0.8	-0.83	0	0	0	0	0	0
1/12/2025 19:04	44501	HAMI_T2	1	10	9	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
1/12/2025 19:04	43304	WATS_T2	2	0	-2	0.55	0	-0.55	-0.47	-0.43	0	0	0	0	0	0
1/12/2025 19:04	66505	SMAN_T2	3	3	0	0.37	1.03	0.66	-0.54	-0.53	1	1	0	900	900	0
1/12/2025 19:04	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:04	40902	JESH_T1	0	0	0	0	0	0	-1.32	-1.33	1	1	0	600	600	0
1/12/2025 19:04	62106	ELAN_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
1/12/2025 19:04	40901	JESH_T1	1	1	0	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
1/12/2025 19:04	54201	PENN_T1	5	20	15	1.14	0.46	-0.68	0	0	0	0	0	0	0	0
1/12/2025 19:04	44502	HAMI_T2	1	2	1	2.3	2.9	0.6	0	0	0	0	0	0	0	0
1/12/2025 19:05	20603	GRWO_T2	0	3	3	0	0.15	0.15	-0.46	-0.47	1	1	0	900	900	0
1/12/2025 19:05	46801	HEPB_T2	0	2	2	0	0.2	0.2	0.63	0.64	0	0	0	0	0	0
1/12/2025 19:05	62105	ELAN_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
1/12/2025 19:05	43201	MVIL_T2	9	1	-8	0.64	0	-0.64	-1.23	-1.27	0	0	0	0	0	0
1/12/2025 19:05	45602	WOOL_T1	0	2	2	0	0	0	0	-0.05	0	0	0	0	0	0
1/12/2025 19:05	63501	HEID_TBK1-2	37	52	15	0.26	0.56	0.3	0	0	0	0	0	0	0	0
1/12/2025 19:05	42701	AUGU_T1	0	1	1	0	0.4	0.4	0	0	2	2	0	1800	1800	0
1/12/2025 19:05	43202	MVIL_T2	8	0	-8	0.98	0.65	-0.33	0	0	0	0	0	0	0	0
1/12/2025 19:05	43304	WATS_T2	2	0	-2	0.55	0	-0.55	-0.23	-0.22	0	0	0	0	0	0
1/12/2025 19:05	20601	GRWO_T2	1	2	1	2.5	3.6	1.1	0	0	0	0	0	0	0	0
1/12/2025 19:05	41301	FISH_T1	3	2	-1	1.43	1.05	-0.38	-0.83	-0.82	0	0	0	0	0	0
1/12/2025 19:05	60803	BUCK_T1	0	0	0	0	0	0	-0.49	-0.49	1	1	0	600	600	0
1/12/2025 19:06	41001	LAUR_T2	1	2	1	1.2	0.1	-1.1	0	0	0	0	0	0	0	0
1/12/2025 19:06	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 19:06	65503	MOJO_T2	0	6	6	0	0.17	0.17	-1.55	-1.57	1	1	0	900	900	0
1/12/2025 19:06	47101	MARL_T1	114	71	-43	0.85	1.06	0.21	-0.47	-0.45	0	0	0	0	0	0
1/12/2025 19:06	46203	DANV_T2	7	14	7	0.57	0.77	0.2	-2.74	-2.71	0	0	0	0	0	0
1/12/2025 19:06	44501	HAMI_T2	1	10	9	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
1/12/2025 19:06	67002	STHI_T2	0	0	0	0	0	0	1.18	1.15	0	0	0	0	0	0
1/12/2025 19:06	64203	KINZ_T1	0	6	6	0	0.48	0.48	0	0	0	0	0	0	0	0
1/12/2025 19:06	44502	HAMI_T2	1	2	1	2.3	2.9	0.6	0	0	0	0	0	0	0	0
1/12/2025 19:06	64201	KINZ_T1	0	0	0	0	0	0	-0.72	-0.69	3	3	0	1500	1500	0
1/12/2025 19:06	46004	BERW_T2	8	3	-5	0.65	0.3	-0.35	-0.71	-0.69	0	0	0	0	0	0
1/12/2025 19:06	66505	SMAN_T2	3	3	0	0.37	1.03	0.66	-0.54	-0.53	1	1	0	900	900	0
1/12/2025 19:06	41002	LAUR_T2	4	4	0	0.3	0.38	0.08	0.11	0.1	0	0	0	0	0	0
1/12/2025 19:06	63501	HEID_TBK1-2	37	52	15	0.26	0.56	0.3	-0.53	-0.51	1	1	0	900	900	0
1/12/2025 19:06	44505	HAMI_T2	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
1/12/2025 19:06	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:06	64204	KINZ_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
1/12/2025 19:06	67402	WAKE_T2	0	0	0	0	0	0	-0.35	-0.37	1	1	0	600	600	0
1/12/2025 19:07	41204	FISH_T2	2	2	0	0.1	0.3	0.2	0.47	0.46	0	0	0	0	0	0
1/12/2025 19:07	42701	AUGU_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/12/2025 19:07	41902	REED_T1	1	2	1	0.5	0	-0.5	0.08	0.18	0	0	0	0	0	0
1/12/2025 19:07	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:07	44902	SCOT_T2	10	205	195	0.13	0.31	0.18	-0.94	-0.91	0	0	0	0	0	0
1/12/2025 19:07	40201	BEGA_T2	3	3	0	0.17	0	-0.17	0	0	0	0	0	0	0	0
1/12/2025 19:07	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
1/12/2025 19:07	52502	PROG_T2	0	0	0	0	0	0	-0.42	-0.44	1	1	0	900	900	0
1/12/2025 19:07	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 19:07	41301	FISH_T1	3	2	-1	1.43	1.05	-0.38	0	0	0	0	0	0	0	0
1/12/2025 19:07	41901	REED_T1	9	9	0	0.5	0.62	0.12	0	0	0	0	0	0	0	0
1/12/2025 19:08	10801	OHHI_T1	0	1	1	0	0	0	-2.88	-2.8	4	4	0	3000	3000	0
1/12/2025 19:08	66302	MCGO_T2	0	0	0	0	0	0	-0.76	-0.69	0	0	0	0	0	0
1/12/2025 19:08	66203	SISP_T2	1	1	0	0.3	0	-0.3	-0.87	-0.87	1	1	0	1200	1200	0
1/12/2025 19:08	20603	GRWO_T2	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
1/12/2025 19:08	12005	HATF_T1	3	3	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/12/2025 19:08	12001	HATF_T1	3	22	19	0.1	0.14	0.04	0	0	0	0	0	0	0	0
1/12/2025 19:08	61802	EELI_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
1/12/2025 19:08	63501	HEID_TBK1-2	37	52	15	0.26	0.56	0.3	-1.01	-1	2	2	0	1800	1800	0
1/12/2025 19:08	12006	HATF_T1	0	2	2	0	0	0	0.26	0.34	0	0	0	0	0	0
1/12/2025 19:08	63601	LETO_T1	0	0	0	0	0	0	0.18	0.11	1	1	0	900	900	0
1/12/2025 19:08	64101	REFR_T1	0	1	1	0	0	0	0.05	0.05	0	0	0	0	0	0
1/12/2025 19:08	57002	WHHI_T2	0	0	0	0	0	0	-2.45	-2.45	1	1	0	1200	1200	0
1/12/2025 19:08	11903	ETEX_T1	0	0	0	0	0	0	0.48	0.43	0	0	0	0	0	0
1/12/2025 19:08	20601	GRWO_T2	1	2	1	2.5	3.6	1.1	-0.13	-0.15	0	0	0	0	0	0
1/12/2025 19:08	16103	BING_T2	0	0	0	0	0	0	-1.53	-1.53	1	1	0	900	900	0
1/12/2025 19:08	61801	EELI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 19:08	14603	SWHI_T1	0	0	0	0	0	0	-1.56	-1.54	2	2	0	1200	1200	0
1/12/2025 19:08	12004	HATF_T1	0	14	14	0	0.16	0.16	0	0	0	0	0	0	0	0
1/12/2025 19:09	44501	HAMI_T2	1	10	9	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
1/12/2025 19:09	41301	FISH_T1	3	2	-1	1.43	1.05	-0.38	-0.82	-0.83	0	0	0	0	0	0
1/12/2025 19:09	44301	BEAV_T2	2	2	0	1.95	0.7	-1.25	-1.51	-1.52	1	1	0	600	600	0
1/12/2025 19:09	64201	KINZ_T1	0	0	0	0	0	0	-0.69	-0.75	3	3	0	1500	1500	0
1/12/2025 19:09	52001	LING_T1	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
1/12/2025 19:09	44905	SCOT_T1	29	24	-5	0.43	0.13	-0.3	0	0	0	0	0	0	0	0
1/12/2025 19:09	54506	ENOL_T2	0	0	0	0	0	0	-0.99	-0.97	1	1	0	600	600	0
1/12/2025 19:09	44502	HAMI_T2	1	2	1	2.3	2.9	0.6	0	0	0	0	0	0	0	0
1/12/2025 19:09	64203	KINZ_T1	0	6	6	0	0.48	0.48	0	0	0	0	0	0	0	0
1/12/2025 19:09	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:09	64204	KINZ_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
1/12/2025 19:09	64305	LINC_T1	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
1/12/2025 19:09	52502	PROG_T2	0	0	0	0	0	0	-0.42	-0.44	1	1	0	900	900	0
1/12/2025 19:10	52002	LING_T2	0	0	0	0	0	0	-0.05	-0.1	0	0	0	0	0	0
1/12/2025 19:10	53903	HALI_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
1/12/2025 19:10	64801	MONE_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
1/12/2025 19:10	11104	EGYP_T1	2	1	-1	0.3	0	-0.3	-0.48	-0.52	1	1	0	900	900	0
1/12/2025 19:10	60201	ATGL_T2	19	28	9	0.18	0.19	0.01	-0.29	-0.35	0	0	0	0	0	0
1/12/2025 19:10	54203	PENN_T1	18	18	0	0.73	1	0.27	0	0	0	0	0	0	0	0
1/12/2025 19:10	54201	PENN_T1	5	20	15	1.14	0.46	-0.68	-1.36	-1.41	0	0	0	0	0	0
1/12/2025 19:10	52004	LING_T2	2	2	0	4.2	4.45	0.25	0.16	0.15	0	0	0	0	0	0
1/12/2025 19:10	57201	ROSS_T1	0	0	0	0	0	0	-0.93	-0.97	0	0	0	0	0	0
1/12/2025 19:10	14603	SWHI_T1	0	0	0	0	0	0	-1.56	-1.54	2	2	0	1200	1200	0
1/12/2025 19:10	60803	BUCK_T1	0	0	0	0	0	0	-0.49	-0.51	1	1	0	600	600	0
1/12/2025 19:10	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 19:10	53902	HALI_T2	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
1/12/2025 19:10	10801	OHHI_T1	0	1	1	0	0	0	-1.44	-1.4	2	2	0	1500	1500	0
1/12/2025 19:10	67002	STHI_T2	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
1/12/2025 19:10	11101	EGYP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/12/2025 19:10	42902	MIDD_T2	3	2	-1	0.63	0	-0.63	-0.57	-0.62	0	0	0	0	0	0
1/12/2025 19:10	11102	EGYP_T1	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/12/2025 19:10	40701	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:10	61801	EELI_T2	0	2	2	0	0.1	0.1	-0.98	-1	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/12/2025 19:10	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:10	63501	HEID_TBK1-2	37	52	15	0.26	0.56	0.3	-0.51	-0.5	1	1	0	900	900	0
1/12/2025 19:10	13702	SCHN_T1	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
1/12/2025 19:10	53901	HALI_T2	1	1	0	0	0.3	0.3	-1.3	-1.3	0	0	0	0	0	0
1/12/2025 19:11	44801	EDAN_T2	2	1	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/12/2025 19:11	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 19:11	57205	ROSS_T1	0	0	0	0	0	0	-1.43	-1.46	0	0	0	0	0	0
1/12/2025 19:11	65503	MOJO_T2	0	6	6	0	0.17	0.17	-1.57	-1.55	1	1	0	900	900	0
1/12/2025 19:11	46001	BERW_T1	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
1/12/2025 19:11	40201	BEGA_T2	3	3	0	0.17	0	-0.17	0	0	0	0	0	0	0	0
1/12/2025 19:11	66505	SMAN_T2	3	3	0	0.37	1.03	0.66	-0.53	-0.56	1	1	0	900	900	0
1/12/2025 19:11	44901	SCOT_T2	0	0	0	0	0	0	-0.57	-0.52	0	0	0	0	0	0
1/12/2025 19:11	60201	ATGL_T2	19	28	9	0.18	0.19	0.01	-0.29	-0.35	0	0	0	0	0	0
1/12/2025 19:11	61001	DONV_T1	0	0	0	0	0	0	0.03	-0.05	0	0	0	0	0	0
1/12/2025 19:11	67002	STHI_T2	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
1/12/2025 19:11	44802	EDAN_T2	0	0	0	0	0	0	-2.2	-2.18	0	0	0	0	0	0
1/12/2025 19:11	54203	PENN_T1	18	18	0	0.73	1	0.27	0	0	0	0	0	0	0	0
1/12/2025 19:11	46203	DANV_T2	7	14	7	0.57	0.77	0.2	0	0	0	0	0	0	0	0
1/12/2025 19:11	44902	SCOT_T2	10	205	195	0.13	0.31	0.18	-0.94	-0.91	0	0	0	0	0	0
1/12/2025 19:11	40101	HUNT_T2	297	262	-35	0.92	0.87	-0.05	-1.88	-1.83	0	0	0	0	0	0
1/12/2025 19:11	46206	DANV_T2	0	0	0	0	0	0	0.46	0.41	2	2	0	2100	2100	0
1/12/2025 19:11	54201	PENN_T1	5	20	15	1.14	0.46	-0.68	-1.36	-1.41	0	0	0	0	0	0
1/12/2025 19:12	67002	STHI_T2	0	0	0	0	0	0	1.15	1.18	0	0	0	0	0	0
1/12/2025 19:12	46203	DANV_T2	7	14	7	0.57	0.77	0.2	-2.71	-2.77	0	0	0	0	0	0
1/12/2025 19:12	65005	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:12	54203	PENN_T1	18	18	0	0.73	1	0.27	-0.02	-0.04	0	0	0	0	0	0
1/12/2025 19:12	65803	RTWN_T2	7	7	0	0.19	0.1	-0.09	0	0	0	0	0	0	0	0
1/12/2025 19:12	54201	PENN_T1	5	20	15	1.14	0.46	-0.68	0	0	0	0	0	0	0	0
1/12/2025 19:12	65502	MOJO_T2	0	0	0	0	0	0	-1.11	-1.13	0	0	0	0	0	0
1/12/2025 19:12	65001	NEFF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 19:12	44801	EDAN_T2	2	1	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/12/2025 19:12	65503	MOJO_T2	0	6	6	0	0.17	0.17	0	0	0	0	0	0	0	0
1/12/2025 19:12	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:12	44802	EDAN_T2	0	0	0	0	0	0	-2.2	-2.18	0	0	0	0	0	0
1/12/2025 19:12	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:12	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:12	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 19:12	61103	BERK_T5	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
1/12/2025 19:12	65802	RTWN_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
1/12/2025 19:13	64203	KINZ_T1	0	6	6	0	0.48	0.48	0	0	0	0	0	0	0	0
1/12/2025 19:13	61802	EELI_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
1/12/2025 19:13	52402	GRPA_T2	0	11	11	0	0	0	-0.9	-0.86	0	0	0	0	0	0
1/12/2025 19:13	61801	EELI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 19:13	60301	TWVA_T2	0	0	0	0	0	0	-1.99	-1.98	2	2	0	1800	1800	0
1/12/2025 19:13	64101	REFR_T1	0	1	1	0	0	0	0.1	0.1	0	0	0	0	0	0
1/12/2025 19:13	64202	KINZ_T1	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
1/12/2025 19:13	44801	EDAN_T2	2	1	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/12/2025 19:13	52403	GRPA_T2	4	1	-3	0.68	0.2	-0.48	0	0	0	0	0	0	0	0
1/12/2025 19:13	64204	KINZ_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
1/12/2025 19:13	44802	EDAN_T2	0	0	0	0	0	0	-2.2	-2.18	0	0	0	0	0	0
1/12/2025 19:13	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:13	52401	GRPA_T2	5	0	-5	0.22	0	-0.22	0	0	0	0	0	0	0	0
1/12/2025 19:13	40602	PIGR_T1	0	0	0	0	0	0	-1.79	-1.77	1	1	0	600	600	0
1/12/2025 19:13	60803	BUCK_T1	0	0	0	0	0	0	-0.49	-0.51	1	1	0	600	600	0
1/12/2025 19:13	66302	MCGO_T2	0	0	0	0	0	0	-0.76	-0.69	0	0	0	0	0	0
1/12/2025 19:13	43304	WATS_T2	2	0	-2	0.55	0	-0.55	-0.22	-0.26	0	0	0	0	0	0
1/12/2025 19:14	66203	SISP_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/12/2025 19:14	58401	MORO_T1	1	0	-1	0.5	0	-0.5	0	0	2	2	0	1500	1500	0
1/12/2025 19:14	43304	WATS_T2	2	0	-2	0.55	0	-0.55	-0.22	-0.26	0	0	0	0	0	0
1/12/2025 19:14	13702	SCHN_T1	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
1/12/2025 19:14	64101	REFR_T1	0	1	1	0	0	0	0.05	0.05	0	0	0	0	0	0
1/12/2025 19:14	21501	CEAV_T2	1	0	-1	0	0	0	1.02	0.99	0	0	0	0	0	0
1/12/2025 19:14	63305	GREE_T1	2	3	1	0.1	0.27	0.17	-2.64	-2.65	1	1	0	900	900	0
1/12/2025 19:14	52403	GRPA_T2	4	1	-3	0.68	0.2	-0.48	-0.73	-0.75	0	0	0	0	0	0
1/12/2025 19:14	52401	GRPA_T2	5	0	-5	0.22	0	-0.22	0	0	0	0	0	0	0	0
1/12/2025 19:14	61103	BERK_T5	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
1/12/2025 19:14	52402	GRPA_T2	0	11	11	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:14	63401	HONV_T1	0	0	0	0	0	0	-0.43	-0.39	1	1	0	600	600	0
1/12/2025 19:14	64402	LAND_T2	0	0	0	0	0	0	-0.55	-0.54	1	1	0	600	600	0
1/12/2025 19:15	64101	REFR_T1	1	0	-1	0.5	0	-0.5	0.05	0.05	0	0	0	0	0	0
1/12/2025 19:15	42902	MIDD_T2	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/12/2025 19:15	63501	HEID_TBK1-2	48	52	4	0.44	0.56	0.12	-1.01	-1	2	2	0	1800	1800	0
1/12/2025 19:15	61801	EELI_T2	2	2	0	0.1	0.1	0	-0.98	-1	1	1	0	600	600	0
1/12/2025 19:15	41301	FISH_T1	2	2	0	1.05	0.4	-0.65	-0.82	-0.83	0	0	0	0	0	0
1/12/2025 19:15	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:15	41305	FISH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 19:15	66505	SMAN_T2	3	3	0	0.53	1.1	0.57	0	0	0	0	0	0	0	0
1/12/2025 19:15	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
1/12/2025 19:15	41801	OGCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:15	52004	LING_T2	2	2	0	4.45	4.5	0.05	0	0	0	0	0	0	0	0
1/12/2025 19:16	13704	SCHN_T2	0	0	0	0	0	0	-0.83	-0.81	0	0	0	0	0	0
1/12/2025 19:16	61801	EELI_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/12/2025 19:16	64101	REFR_T1	1	0	-1	0.5	0	-0.5	0.1	0.1	0	0	0	0	0	0
1/12/2025 19:16	64403	LAND_T1	0	0	0	0	0	0	-1.98	-1.93	1	1	0	900	900	0
1/12/2025 19:16	52403	GRPA_T2	0	3	3	0	0.2	0.2	-0.73	-0.75	0	0	0	0	0	0
1/12/2025 19:16	40602	PIGR_T1	0	0	0	0	0	0	-1.79	-1.77	1	1	0	600	600	0
1/12/2025 19:16	61803	EELI_T2	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0
1/12/2025 19:16	60803	BUCK_T1	0	0	0	0	0	0	-0.49	-0.51	1	1	0	600	600	0
1/12/2025 19:16	52402	GRPA_T2	2	10	8	0.3	0.37	0.07	0	0	0	0	0	0	0	0
1/12/2025 19:16	40101	HUNT_T2	256	216	-40	0.89	0.88	-0.01	-1.88	-1.83	0	0	0	0	0	0
1/12/2025 19:17	64203	KINZ_T1	6	6	0	1.03	0.7	-0.33	0	0	0	0	0	0	0	0
1/12/2025 19:17	41903	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:17	41902	REED_T1	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/12/2025 19:17	41901	REED_T1	9	8	-1	0.59	0.79	0.2	0	0	0	0	0	0	0	0
1/12/2025 19:17	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
1/12/2025 19:17	64204	KINZ_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
1/12/2025 19:17	64101	REFR_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/12/2025 19:18	63801	HEMP_T1	0	0	0	0	0	0	-0.03	-0.14	0	0	0	0	0	0
1/12/2025 19:18	58202	NEWV_T1	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
1/12/2025 19:18	61703	ELIZ_T1	0	0	0	0	0	0	-0.71	-0.84	1	1	0	900	900	0
1/12/2025 19:18	64101	REFR_T1	1	0	-1	0.5	0	-0.5	0.1	0.1	0	0	0	0	0	0
1/12/2025 19:18	65503	MOJO_T2	6	7	1	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
1/12/2025 19:18	61701	ELIZ_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
1/12/2025 19:18	61304	EARL_T1	0	0	0	0	0	0	-0.92	-0.89	1	1	0	600	600	0
1/12/2025 19:18	66302	MCGO_T2	0	0	0	0	0	0	-0.76	-0.69	0	0	0	0	0	0
1/12/2025 19:18	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:18	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/12/2025 19:18	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
1/12/2025 19:19	52004	LING_T2	2	2	0	4.45	4.5	0.05	0.16	0.15	0	0	0	0	0	0
1/12/2025 19:19	65503	MOJO_T2	6	7	1	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
1/12/2025 19:19	52403	GRPA_T2	0	3	3	0	0.2	0.2	-0.73	-0.75	0	0	0	0	0	0
1/12/2025 19:19	66302	MCGO_T2	0	0	0	0	0	0	-1.53	-1.38	0	0	0	0	0	0
1/12/2025 19:19	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 19:19	52402	GRPA_T2	2	10	8	0.3	0.37	0.07	0	0	0	0	0	0	0	0
1/12/2025 19:19	57002	WHHI_T2	0	0	0	0	0	0	-2.45	-2.45	1	1	0	1200	1200	0
1/12/2025 19:19	58202	NEWV_T1	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
1/12/2025 19:19	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
1/12/2025 19:19	58401	MORO_T1	0	0	0	0	0	0	0	0	2	2	0	1500	1500	0
1/12/2025 19:19	63801	HEMP_T1	0	0	0	0	0	0	-0.03	-0.14	0	0	0	0	0	0
1/12/2025 19:19	65502	MOJO_T2	0	0	0	0	0	0	-1.11	-1.13	0	0	0	0	0	0
1/12/2025 19:19	64101	REFR_T1	1	0	-1	0.5	0	-0.5	0.05	0.05	0	0	0	0	0	0
1/12/2025 19:20	52402	GRPA_T2	2	10	8	0.3	0.37	0.07	0	0	0	0	0	0	0	0
1/12/2025 19:20	55105	WERT_T1	0	0	0	0	0	0	-0.43	-0.41	1	1	0	900	900	0
1/12/2025 19:20	57201	ROSS_T1	0	0	0	0	0	0	-0.93	-0.97	0	0	0	0	0	0
1/12/2025 19:20	44301	BEAV_T2	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
1/12/2025 19:20	64101	REFR_T1	1	0	-1	0.5	0	-0.5	0.05	0.05	0	0	0	0	0	0
1/12/2025 19:20	58202	NEWV_T1	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
1/12/2025 19:20	52403	GRPA_T2	0	3	3	0	0.2	0.2	-0.73	-0.75	0	0	0	0	0	0
1/12/2025 19:20	52004	LING_T2	2	2	0	4.45	4.5	0.05	0.16	0.15	0	0	0	0	0	0
1/12/2025 19:21	52004	LING_T2	2	2	0	4.45	4.5	0.05	0	0	0	0	0	0	0	0
1/12/2025 19:21	64203	KINZ_T1	6	6	0	1.03	0.7	-0.33	-0.5	-0.46	1	1	0	600	600	0
1/12/2025 19:21	52002	LING_T2	0	0	0	0	0	0	-0.1	-0.07	0	0	0	0	0	0
1/12/2025 19:21	64204	KINZ_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
1/12/2025 19:22	66301	MCGO_T2	0	0	0	0	0	0	-1.12	-1.13	0	0	0	0	0	0
1/12/2025 19:23	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:23	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/12/2025 19:23	52403	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
1/12/2025 19:23	52402	GRPA_T2	2	10	8	0.3	0.37	0.07	-0.86	-0.99	0	0	0	0	0	0
1/12/2025 19:32	10801	CHHI_T1	0	0	0	0	0	0	-1.4	-1.4	2	2	0	1500	1500	0
1/12/2025 19:38	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 19:38	43801	SWIL_T1	4	4	0	1.63	1.55	-0.08	0	0	0	0	0	0	0	0
1/12/2025 19:41	64403	LAND_T1	0	0	0	0	0	0	-1.95	-1.96	1	1	0	900	900	0
1/12/2025 19:42	42503	ALTA_T2	4	4	0	0.83	0	-0.83	0	0	0	0	0	0	0	0
1/12/2025 19:42	42501	ALTA_T2	0	0	0	0	0	0	-1.32	-1.32	1	1	0	600	600	0
1/12/2025 19:56	66302	MCGO_T2	0	0	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0
1/12/2025 19:56	66303	MCGO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/12/2025 22:00	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/12/2025 22:26	65202	PRIN_T1	1	12	11	0.8	0.16	-0.64	0	0	0	0	0	0	0	0
1/12/2025 22:26	65203	PRIN_T1	3	2	-1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
1/12/2025 22:26	65205	PRIN_T1	1	3	2	1.8	1	-0.8	0	0	0	0	0	0	0	0
1/13/2025 8:58	61704	ELIZ_T2	5	5	0	0.34	0.36	0.02	0	0	0	0	0	0	0	0
1/13/2025 8:58	16101	BING_T2	0	0	0	0	0	0	0.57	0.54	0	0	0	0	0	0
1/13/2025 8:58	61702	ELIZ_T2	0	0	0	0	0	0	-0.67	-0.65	1	1	0	300	300	0
1/13/2025 9:00	40504	CRES_T1	1	4	3	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/13/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
1/13/2025 9:12	10504	CRAC_T1	0	2	2	0	0.6	0.6	-0.14	-0.21	0	0	0	0	0	0
1/13/2025 9:17	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 9:29	15603	NSTR_T2	0	0	0	0	0	0	-1.14	-1.13	0	0	0	0	0	0
1/13/2025 9:30	26704	HEML_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
1/13/2025 9:34	57205	ROSS_T1	0	0	0	0	0	0	-1.36	-1.37	0	0	0	0	0	0
1/13/2025 9:36	64101	REFR_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
1/13/2025 9:37	64101	REFR_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
1/13/2025 9:41	22003	BOHE_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/13/2025 9:41	22002	BOHE_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
1/13/2025 9:51	24202	PROV_T4	0	0	0	0	0	0	-0.76	-0.74	1	1	0	1200	1200	0
1/13/2025 9:51	55002	NEWP_T1	1	1	0	0.2	0.4	0.2	-0.19	-0.18	0	0	0	0	0	0
1/13/2025 9:52	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 9:52	55101	WERT_T1	0	0	0	0	0	0	-1.33	-1.24	2	2	0	1500	1500	0
1/13/2025 9:54	40302	TAMA_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 9:54	40301	TAMA_T3	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/13/2025 9:54	55101	WERT_T1	0	0	0	0	0	0	-2.65	-2.48	4	4	0	3000	3000	0
1/13/2025 9:54	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 9:56	16102	BING_T2	0	2	2	0	4.1	4.1	0	0	0	0	0	0	0	0
1/13/2025 9:56	16101	BING_T2	0	0	0	0	0	0	0.56	0.49	0	0	0	0	0	0
1/13/2025 9:59	64101	RERR_T1	0	1	1	0	0	0	0.05	0.05	0	0	0	0	0	0
1/13/2025 10:00	53502	EVIL_T2	1	2	1	2.1	1.8	-0.3	0	0	0	0	0	0	0	0
1/13/2025 10:00	53501	EVIL_T2	1	2	1	1	0.7	-0.3	0	0	0	0	0	0	0	0
1/13/2025 10:01	15603	NSTR_T2	0	0	0	0	0	0	-1.03	-1.12	0	0	0	0	0	0
1/13/2025 10:05	55101	WERT_T1	0	0	0	0	0	0	-1.33	-1.24	2	2	0	1500	1500	0
1/13/2025 10:06	41902	REED_T1	3	0	-3	0.27	0	-0.27	0.32	0.36	0	0	0	0	0	0
1/13/2025 10:23	58401	MORO_T1	0	0	0	0	0	0	0	0	3	3	0	2100	2100	0
1/13/2025 10:24	42701	AUGU_T1	1	0	-1	0.5	0	-0.5	0	0	2	2	0	1800	1800	0
1/13/2025 10:26	42701	AUGU_T1	1	0	-1	0.5	0	-0.5	0	0	2	2	0	1800	1800	0
1/13/2025 10:29	53502	EVIL_T2	2	1	-1	1.45	1.4	-0.05	0	0	0	0	0	0	0	0
1/13/2025 10:29	53501	EVIL_T2	1	2	1	1	0.7	-0.3	-0.7	-0.7	1	1	0	600	600	0
1/13/2025 10:33	52001	LING_T1	0	0	0	0	0	0	-0.95	-0.97	0	0	0	0	0	0
1/13/2025 10:39	44301	BEAV_T2	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/13/2025 10:43	52404	GRPA_T2	1	2	1	0.4	0	-0.4	0.53	0.56	0	0	0	0	0	0
1/13/2025 10:43	52403	GRPA_T2	2	6	4	0.25	0.3	0.05	0	0	0	0	0	0	0	0
1/13/2025 10:50	65202	PRIN_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
1/13/2025 10:50	13704	SCHN_T2	0	0	0	0	0	0	-0.77	-0.73	0	0	0	0	0	0
1/13/2025 10:50	65205	PRIN_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/13/2025 10:50	13302	ORVI_T2	0	0	0	0	0	0	1.52	1.41	0	0	0	0	0	0
1/13/2025 10:56	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 11:06	66504	SMAN_T2	0	0	0	0	0	0	-1.5	-1.51	1	1	0	1200	1200	0
1/13/2025 11:07	66504	SMAN_T2	0	0	0	0	0	0	-3.02	-3.18	2	2	0	2400	2400	0
1/13/2025 11:08	40602	PIGR_T1	0	2	2	0	0	0	-1.53	-1.6	1	1	0	600	600	0
1/13/2025 11:08	40603	PIGR_T1	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/13/2025 11:09	66504	SMAN_T2	0	0	0	0	0	0	-1.51	-1.59	1	1	0	1200	1200	0
1/13/2025 11:11	52202	DEVO_T2	0	0	0	0	0	0	-1.17	-1.14	0	0	0	0	0	0
1/13/2025 11:13	52202	DEVO_T2	0	0	0	0	0	0	-1.17	-1.14	0	0	0	0	0	0
1/13/2025 11:17	42901	MIDD_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/13/2025 11:17	52101	MEIS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/13/2025 11:17	42903	MIDD_T2	2	2	0	1.15	1.85	0.7	0	0	0	0	0	0	0	0
1/13/2025 11:17	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
1/13/2025 11:17	42902	MIDD_T2	1	20	19	0.2	0.25	0.05	-0.24	-0.14	0	0	0	0	0	0
1/13/2025 11:19	42902	MIDD_T2	1	20	19	0.2	0.25	0.05	0	0	0	0	0	0	0	0
1/13/2025 11:19	42903	MIDD_T2	2	2	0	1.15	1.85	0.7	0	0	0	0	0	0	0	0
1/13/2025 11:19	42901	MIDD_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/13/2025 11:20	42903	MIDD_T2	2	2	0	1.15	1.85	0.7	0	0	0	0	0	0	0	0
1/13/2025 11:20	42902	MIDD_T2	1	20	19	0.2	0.25	0.05	-0.12	-0.07	0	0	0	0	0	0
1/13/2025 11:20	42901	MIDD_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/13/2025 11:21	42903	MIDD_T2	2	2	0	1.15	1.85	0.7	0	0	0	0	0	0	0	0
1/13/2025 11:21	42902	MIDD_T2	1	20	19	0.2	0.25	0.05	-0.12	-0.07	0	0	0	0	0	0
1/13/2025 11:21	42901	MIDD_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/13/2025 11:22	44901	SCOT_T2	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
1/13/2025 11:24	44902	SCOT_T2	0	0	0	0	0	0	-0.91	-0.86	0	0	0	0	0	0
1/13/2025 11:28	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 11:28	44502	HAMI_T2	1	1	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
1/13/2025 11:28	52404	GRPA_T2	0	0	0	0	0	0	0.52	0.06	0	0	0	0	0	0
1/13/2025 11:28	52403	GRPA_T2	2	11	9	1.45	0.93	-0.52	0	0	0	0	0	0	0	0
1/13/2025 11:29	44505	HAMI_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
1/13/2025 11:29	26703	HEML_T1	0	0	0	0	0	0	-0.78	-0.76	1	1	0	600	600	0
1/13/2025 11:29	26701	HEML_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/13/2025 11:29	44502	HAMI_T2	1	1	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
1/13/2025 11:31	44502	HAMI_T2	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
1/13/2025 11:31	52402	GRPA_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
1/13/2025 11:31	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 11:31	52403	GRPA_T2	4	11	7	0.95	0.78	-0.17	-0.71	0	0	0	0	0	0	0
1/13/2025 11:37	65802	RTWN_T2	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
1/13/2025 11:37	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 11:44	51802	EBEN_T2	0	0	0	0	0	0	-0.08	-0.24	1	1	0	900	900	0
1/13/2025 11:44	52403	GRPA_T2	4	11	7	0.95	0.78	-0.17	0	0	0	0	0	0	0	0
1/13/2025 11:44	52402	GRPA_T2	0	2	2	0	0.35	0.35	-0.97	-0.96	0	0	0	0	0	0
1/13/2025 11:45	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 11:45	52402	GRPA_T2	0	2	2	0	0.35	0.35	-0.97	-0.96	0	0	0	0	0	0
1/13/2025 11:45	45502	DERR_T2	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
1/13/2025 11:45	45501	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 11:45	52403	GRPA_T2	11	7	-4	0.63	1.27	0.64	0	0	0	0	0	0	0	0
1/13/2025 11:47	46802	HEPB_T1	1	1	0	1.3	1.3	0	-1.23	-1.24	0	0	0	0	0	0
1/13/2025 11:49	41902	REED_T1	9	11	2	0.68	0	-0.68	0.32	0.35	1	1	0	900	900	0
1/13/2025 11:50	41902	REED_T1	9	11	2	0.68	0	-0.68	0.32	0.35	1	1	0	900	900	0
1/13/2025 11:52	59101	WALK_T2	1	1	0	1.8	0.9	-0.9	2.02	1.65	0	0	0	0	0	0
1/13/2025 11:53	59101	WALK_T2	1	1	0	1.8	0.9	-0.9	2.02	1.65	0	0	0	0	0	0
1/13/2025 11:53	41902	REED_T1	9	11	2	0.68	0	-0.68	0.35	0.3	1	1	0	900	900	0
1/13/2025 11:54	59101	WALK_T2	1	1	0	1.8	0.9	-0.9	2.02	1.65	0	0	0	0	0	0
1/13/2025 11:55	46206	DANV_T2	4	1	-3	0.3	0.3	0	1.19	1.15	2	2	0	2100	2100	0
1/13/2025 11:55	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 11:55	46203	DANV_T2	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
1/13/2025 11:57	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 11:57	67402	WAKE_T2	0	0	0	0	0	0	0.51	0.51	1	1	0	600	600	0
1/13/2025 11:57	46203	DANV_T2	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
1/13/2025 11:57	46206	DANV_T2	4	1	-3	0.3	0.3	0	1.19	1.15	2	2	0	2100	2100	0
1/13/2025 11:58	62102	ELAN_T1	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
1/13/2025 11:58	46206	DANV_T2	4	1	-3	0.3	0.3	0	1.19	1.15	2	2	0	2100	2100	0
1/13/2025 11:58	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 11:58	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 11:58	46203	DANV_T2	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
1/13/2025 11:59	45802	HEGI_T2	10	15	5	0.83	0.29	-0.54	0	0	0	0	0	0	0	0
1/13/2025 12:00	64301	LINC_T1	0	0	0	0	0	0	-0.86	-0.92	0	0	0	0	0	0
1/13/2025 12:01	64301	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 12:02	54203	PENN_T1	18	18	0	0.93	0.62	-0.31	-0.01	0	0	0	0	0	0	0
1/13/2025 12:02	64301	LINC_T1	0	0	0	0	0	0	-0.86	-0.92	0	0	0	0	0	0
1/13/2025 12:02	40101	HUNT_T2	446	423	-23	1.19	0.69	-0.5	-2.69	-2.83	0	0	0	0	0	0
1/13/2025 12:02	58102	NEKI_T1	1	1	0	1	0.9	-0.1	-0.92	-0.91	0	0	0	0	0	0
1/13/2025 12:02	54201	PENN_T1	39	9	-30	0.33	0.8	0.47	0	0	0	0	0	0	0	0
1/13/2025 12:03	55001	NEWP_T1	0	0	0	0	0	0	-0.86	-0.26	1	0	-1	600	0	-600
1/13/2025 12:03	55002	NEWP_T1	5	4	-1	0.64	0.68	0.04	0	0	0	0	0	0	0	0
1/13/2025 12:03	40101	HUNT_T2	446	423	-23	1.19	0.69	-0.5	-1.34	-1.41	0	0	0	0	0	0
1/13/2025 12:04	55002	NEWP_T1	5	4	-1	0.64	0.68	0.04	0	0	0	0	0	0	0	0
1/13/2025 12:04	44201	POIN_T1	0	136	136	0	0.35	0.35	-1.14	-1.81	2	2	0	2100	2100	0
1/13/2025 12:04	55001	NEWP_T1	0	0	0	0	0	0	-2.57	-0.77	3	0	-3	1800	0	-1800
1/13/2025 12:05	52502	PROG_T2	0	0	0	0	0	0	-0.84	-0.89	2	2	0	1800	1800	0
1/13/2025 12:05	64301	LINC_T1	0	0	0	0	0	0	-0.86	-0.92	0	0	0	0	0	0
1/13/2025 12:06	41902	REED_T1	11	0	-11	0.94	0	-0.94	0.35	0.3	1	1	0	900	900	0
1/13/2025 12:06	44201	POIN_T1	0	136	136	0	0.35	0.35	-3.41	-5.42	6	6	0	6300	6300	0
1/13/2025 12:08	55002	NEWP_T1	5	4	-1	0.64	0.68	0.04	-0.2	-0.18	0	0	0	0	0	0
1/13/2025 12:08	44201	POIN_T1	0	136	136	0	0.35	0.35	-1.81	-1.94	2	2	0	2100	2100	0
1/13/2025 12:09	24102	EHAZ_T1	12	25	13	0.85	0.55	-0.3	0	0.02	0	0	0	0	0	0
1/13/2025 12:09	24105	EHAZ_T1	4	4	0	7.18	6.83	-0.35	0	0	0	0	0	0	0	0
1/13/2025 12:09	24101	EHAZ_T1	76	66	-10	1.25	0.75	-0.5	0	0	0	0	0	0	0	0
1/13/2025 12:10	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 12:10	44201	POIN_T1	0	136	136	0	0.35	0.35	-1.81	-1.94	2	2	0	2100	2100	0
1/13/2025 12:13	46204	DANV_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 12:13	46203	DANV_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/13/2025 12:13	46206	DANV_T2	1	4	3	0.3	0.3	0	1.15	1.13	2	2	0	2100	2100	0
1/13/2025 12:18	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.2	0	0	0	0	0	0
1/13/2025 12:22	46602	LACR_T1	0	0	0	0	0	0	-0.59	-0.64	0	0	0	0	0	0
1/13/2025 12:24	42701	AUGU_T1	1	2	1	1.5	0.95	-0.55	0	0	2	2	0	1800	1800	0
1/13/2025 12:25	67703	WERN_T2	0	0	0	0	0	0	-0.83	-0.85	1	1	0	900	900	0
1/13/2025 12:25	45501	DERR_T2	1	1	0	0.1	0.4	0.3	0.58	0.61	2	2	0	1800	1800	0
1/13/2025 12:26	42701	AUGU_T1	1	2	1	1.5	0.95	-0.55	0	0	4	4	0	3600	3600	0
1/13/2025 12:28	11904	ETEX_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
1/13/2025 12:30	63601	LETO_T1	7	5	-2	0.81	0.42	-0.39	0.28	0.23	1	1	0	900	900	0
1/13/2025 12:30	45501	DERR_T2	1	0	-1	0.4	0	-0.4	0.58	0.61	2	2	0	1800	1800	0
1/13/2025 12:30	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 12:31	63501	HEID_TBK1-2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/13/2025 12:34	63601	LETO_T1	7	5	-2	0.81	0.42	-0.39	0.28	0.23	1	1	0	900	900	0
1/13/2025 12:36	55407	SHER_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 12:36	55405	SHER_T1	6	4	-2	0.67	0.1	-0.57	0	0	0	0	0	0	0	0
1/13/2025 12:36	44201	POIN_T1	134	0	-134	0.35	0	-0.35	-1.94	-1.06	2	2	0	2100	2100	0
1/13/2025 12:39	44203	POIN_T2	0	0	0	0	0	0	-0.77	-0.84	2	2	0	2100	2100	0
1/13/2025 12:39	44202	POIN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/13/2025 12:40	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 12:41	29402	BELT_T1	1	3	2	6	2.53	-3.47	0	0	0	0	0	0	0	0
1/13/2025 12:44	10801	CHHI_T1	1	1	0	0.9	0.1	-0.8	-1.84	-1.86	3	3	0	2100	2100	0
1/13/2025 12:46	45802	HEGI_T2	7	2	-5	0.37	0	-0.37	0	0	0	0	0	0	0	0
1/13/2025 12:46	44902	SCOT_T2	0	0	0	0	0	0	-0.95	-0.92	0	0	0	0	0	0
1/13/2025 12:47	64302	LINC_T2	0	0	0	0	0	0	0.66	0.6	0	0	0	0	0	0
1/13/2025 12:51	66504	SMAN_T2	1	2	1	0.4	0.25	-0.15	-3.46	-3.38	2	2	0	2400	2400	0
1/13/2025 12:51	66505	SMAN_T2	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
1/13/2025 12:51	44904	SCOT_T1	0	0	0	0	0	0	-0.26	0.7	0	0	0	0	0	0
1/13/2025 12:53	66505	SMAN_T2	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
1/13/2025 12:53	66504	SMAN_T2	1	2	1	0.4	0.25	-0.15	-1.69	-1.7	1	1	0	1200	1200	0
1/13/2025 12:53	44301	BEAV_T2	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
1/13/2025 12:59	63501	HEID_TBK1-2	2	0	-2	0.2	0	-0.2	0.02	0.05	1	1	0	900	900	0
1/13/2025 12:59	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 13:00	11301	EMMA_T1	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
1/13/2025 13:00	26704	HEML_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
1/13/2025 13:01	63501	HEID_TBK1-2	0	0	0	0	0	0	0.02	0.05	1	1	0	900	900	0
1/13/2025 13:01	54506	ENOL_T2	0	0	0	0	0	0	0.42	0.33	1	0	-1	600	0	-600
1/13/2025 13:02	63501	HEID_TBK1-2	0	0	0	0	0	0	0.02	0.05	1	1	0	900	900	0
1/13/2025 13:13	45501	DERR_T2	0	0	0	0	0	0	0.67	0.65	2	2	0	1800	1800	0
1/13/2025 13:15	45501	DERR_T2	0	0	0	0	0	0	0.67	0.65	2	2	0	1800	1800	0
1/13/2025 13:19	44801	EDAN_T2	2	2	0	0.65	1.3	0.65	-0.27	-0.28	0	0	0	0	0	0
1/13/2025 13:22	13702	SCHN_T1	0	0	0	0	0	0	1.99	2.1	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/13/2025 13:24	10801	CHHI_T1	3	44	41	0.4	0.24	-0.16	-1.94	-2.09	3	3	0	2100	2100	0
1/13/2025 13:26	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 13:27	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 13:27	44301	BEAV_T2	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
1/13/2025 13:28	45501	DERR_T2	0	0	0	0	0	0	0.65	0.63	2	2	0	1800	1800	0
1/13/2025 13:28	10801	CHHI_T1	3	44	41	0.4	0.24	-0.16	-1.94	-2.09	3	3	0	2100	2100	0
1/13/2025 13:30	20601	GRWO_T2	1	23	22	1.1	0.28	-0.82	0.47	0.48	0	0	0	0	0	0
1/13/2025 13:33	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 13:35	44801	EDAN_T2	2	4	2	0.85	1.6	0.75	-0.28	-0.28	0	0	0	0	0	0
1/13/2025 13:40	16302	ALPA_T2	0	0	0	0	0	0	-0.66	-0.75	0	0	0	0	0	0
1/13/2025 13:44	67402	WAKE_T2	0	0	0	0	0	0	0.48	0.47	1	1	0	600	600	0
1/13/2025 13:45	44802	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 13:45	44801	EDAN_T2	1	5	4	1.8	1.4	-0.4	-0.28	-0.29	0	0	0	0	0	0
1/13/2025 13:45	61703	ELIZ_T1	0	0	0	0	0	0	-0.89	-0.87	1	1	0	900	900	0
1/13/2025 13:45	61701	ELIZ_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
1/13/2025 13:46	26704	HEML_T2	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
1/13/2025 13:49	47001	HUGH_T2	3	3	0	7	7.97	0.97	-1.68	-1.7	1	1	0	900	900	0
1/13/2025 13:52	54601	SUMM_T2	1	0	-1	0.2	0	-0.2	-1.79	-1.8	2	2	0	2100	2100	0
1/13/2025 13:53	59101	WALK_T2	2	1	-1	1.4	5.1	3.7	1.98	1.89	1	1	0	600	600	0
1/13/2025 13:54	59101	WALK_T2	2	1	-1	1.4	5.1	3.7	1.98	1.89	1	1	0	600	600	0
1/13/2025 13:55	59101	WALK_T2	2	1	-1	1.4	5.1	3.7	1.98	1.89	1	1	0	600	600	0
1/13/2025 13:58	11302	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 14:12	61704	ELIZ_T2	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/13/2025 14:12	61702	ELIZ_T2	0	0	0	0	0	0	-0.66	-0.65	1	1	0	300	300	0
1/13/2025 14:13	43402	BENT_T1	0	2	2	0	0.15	0.15	-0.9	-0.91	1	1	0	900	900	0
1/13/2025 14:13	43401	BENT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/13/2025 14:14	21501	CEAV_T2	1	1	0	0	0	0	0.09	-0.23	0	0	0	0	0	0
1/13/2025 14:15	61704	ELIZ_T2	5	5	0	0.3	0.36	0.06	0	0	0	0	0	0	0	0
1/13/2025 14:15	61702	ELIZ_T2	0	0	0	0	0	0	-0.66	-0.65	1	1	0	300	300	0
1/13/2025 14:20	13704	SCHN_T2	0	0	0	0	0	0	-0.87	-0.88	0	0	0	0	0	0
1/13/2025 14:20	12602	MACA_T1	50	74	24	0.25	0.32	0.07	0	0	0	0	0	0	0	0
1/13/2025 14:20	12601	MACA_T1	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
1/13/2025 14:22	12602	MACA_T1	50	74	24	0.25	0.32	0.07	-2.07	-0.74	0	0	0	0	0	0
1/13/2025 14:24	15101	UPHA_T1	0	1	1	0	0.4	0.4	0.75	0.72	0	0	0	0	0	0
1/13/2025 14:24	15102	UPHA_T1	7	10	3	0.49	0.48	-0.01	0	0	0	0	0	0	0	0
1/13/2025 14:29	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
1/13/2025 14:32	12602	MACA_T1	74	0	-74	0.32	0	-0.32	0	0	0	0	0	0	0	0
1/13/2025 14:38	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
1/13/2025 14:39	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
1/13/2025 14:44	20603	GRWO_T2	10	4	-6	0.41	0	-0.41	-0.57	-0.63	1	1	0	900	900	0
1/13/2025 14:44	20601	GRWO_T2	2	1	-1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
1/13/2025 14:46	47101	MARL_T1	6	10	4	0.55	0	-0.55	0	0	0	0	0	0	0	0
1/13/2025 14:46	47104	MARL_T1	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
1/13/2025 14:54	43304	WATS_T2	0	0	0	0	0	0	-0.29	-0.35	0	0	0	0	0	0
1/13/2025 14:55	43304	WATS_T2	0	0	0	0	0	0	-0.29	-0.35	0	0	0	0	0	0
1/13/2025 14:56	43304	WATS_T2	0	0	0	0	0	0	-0.29	-0.35	0	0	0	0	0	0
1/13/2025 14:56	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.61	0.55	2	2	0	1800	1800	0
1/13/2025 14:57	43304	WATS_T2	0	0	0	0	0	0	-0.29	-0.35	0	0	0	0	0	0
1/13/2025 14:57	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 15:00	64701	LITI_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
1/13/2025 15:09	43801	SWIL_T1	1	4	3	4.7	1.38	-3.32	0	0	0	0	0	0	0	0
1/13/2025 15:09	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 15:12	53501	EVIL_T2	2	2	0	0.8	0.75	-0.05	-0.87	-0.96	1	1	0	600	600	0
1/13/2025 15:13	53501	EVIL_T2	2	2	0	0.8	0.75	-0.05	-1.74	-1.93	2	2	0	1200	1200	0
1/13/2025 15:15	53501	EVIL_T2	2	2	0	0.6	0.75	0.15	-0.87	-0.96	1	1	0	600	600	0
1/13/2025 15:16	53501	EVIL_T2	2	2	0	0.6	0.75	0.15	-0.87	-0.96	1	1	0	600	600	0
1/13/2025 15:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 15:43	48902	FOSP_T2	0	0	0	0	0	0	0.19	0	0	0	0	0	0	0
1/13/2025 15:47	17802	GILB_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
1/13/2025 15:50	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 15:52	41902	REED_T1	0	0	0	0	0	0	0.26	0.3	1	1	0	900	900	0
1/13/2025 15:52	15202	SFAR_T1	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
1/13/2025 15:53	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 16:01	17802	GILB_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 16:01	17801	GILB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 16:09	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 16:10	52502	PROG_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	900	900	0
1/13/2025 16:11	43304	WATS_T2	0	0	0	0	0	0	0	-0.29	0	0	0	0	0	0
1/13/2025 16:23	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 16:23	40302	TAMA_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 16:27	45303	WBER_T2	1	1	0	8.4	8.5	0.1	0	0	0	0	0	0	0	0
1/13/2025 16:27	45302	WBER_T2	0	0	0	0	0	0	0.68	0.59	0	0	0	0	0	0
1/13/2025 16:37	61102	BERK_T5	0	0	0	0	0	0	0.68	0.81	1	1	0	300	300	0
1/13/2025 16:40	63501	HEID_TBK1-2	1	1	0	0.2	0.2	0	-0.49	-0.48	1	1	0	900	900	0
1/13/2025 18:50	26703	HEML_T1	0	0	0	0	0	0	-0.71	-0.72	1	1	0	600	600	0
1/13/2025 18:50	26701	HEML_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 18:59	29402	BELT_T1	1	1	0	4	4.4	0.4	0	0	0	0	0	0	0	0
1/13/2025 19:01	22001	BOHE_T1	0	26	26	0	0.16	0.16	0	0	0	0	0	0	0	0
1/13/2025 19:01	15601	NSTR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:01	22003	BOHE_T1	4	23	19	0.23	0.41	0.18	0	0	0	0	0	0	0	0
1/13/2025 19:01	15603	NSTR_T2	0	0	0	0	0	0	-1.06	-1.09	0	0	0	0	0	0
1/13/2025 19:01	22002	BOHE_T1	0	1	1	0	0.5	0.5	0.37	0.37	0	0	0	0	0	0
1/13/2025 19:02	15101	UPHA_T1	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
1/13/2025 19:02	16101	BING_T2	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
1/13/2025 19:02	16302	ALPA_T2	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
1/13/2025 19:02	11301	EMMA_T1	0	0	0	0	0	0	-0.74	-0.71	0	0	0	0	0	0
1/13/2025 19:03	61702	ELIZ_T2	0	0	0	0	0	0	-0.69	-0.68	1	1	0	300	300	0
1/13/2025 19:03	61704	ELIZ_T2	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
1/13/2025 19:04	67703	WERN_T2	0	0	0	0	0	0	-0.86	-0.84	1	1	0	900	900	0
1/13/2025 19:04	44201	POIN_T1	0	0	0	0	0	0	-1.37	-1.38	1	1	0	1200	1200	0
1/13/2025 19:04	46206	DANV_T2	4	4	0	0.18	0	-0.18	1.58	1.65	2	2	0	2100	2100	0
1/13/2025 19:04	66505	SMAN_T2	3	2	-1	0.17	0.2	0.03	0	0	0	0	0	0	0	0
1/13/2025 19:04	13302	ORVI_T2	0	1	1	0	0.1	0.1	1.62	1.63	0	0	0	0	0	0
1/13/2025 19:04	66504	SMAN_T2	0	0	0	0	0	0	-3.38	-3.5	2	2	0	2400	2400	0
1/13/2025 19:04	46203	DANV_T2	8	11	3	0.54	0.91	0.37	0	0	0	0	0	0	0	0
1/13/2025 19:04	12602	MACA_T1	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
1/13/2025 19:05	20601	GRWO_T2	2	2	0	2.55	4.8	2.25	0.03	0.02	0	0	0	0	0	0
1/13/2025 19:05	40302	TAMA_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:05	20603	GRWO_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
1/13/2025 19:05	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:06	44201	POIN_T1	0	0	0	0	0	0	-1.37	-1.38	1	1	0	1200	1200	0
1/13/2025 19:06	46602	LACR_T1	10	16	6	0.17	0.24	0.07	-0.6	-0.59	0	0	0	0	0	0
1/13/2025 19:06	11904	ETEX_T2	0	0	0	0	0	0	-0.74	-0.77	0	0	0	0	0	0
1/13/2025 19:06	15202	SFAR_T1	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
1/13/2025 19:07	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
1/13/2025 19:07	24206	PROV_T4	1	1	0	2.5	0	-2.5	0	0	0	0	0	0	0	0
1/13/2025 19:07	52204	DEVO_T2	0	4	4	0	0.7	0.7	0	0	0	0	0	0	0	0
1/13/2025 19:07	24202	PROV_T4	0	0	0	0	0	0	-0.82	-0.79	1	1	0	1200	1200	0
1/13/2025 19:07	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:07	17802	GILB_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
1/13/2025 19:08	45502	DERR_T2	7	5	-2	0.39	0.77	0.38	0	0	0	0	0	0	0	0
1/13/2025 19:08	64701	LITI_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
1/13/2025 19:08	11302	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:08	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.21	0.27	2	2	0	1800	1800	0
1/13/2025 19:08	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:08	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
1/13/2025 19:08	13704	SCHN_T2	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
1/13/2025 19:08	55001	NEWP_T1	0	1	1	0	0	0	-0.77	-0.78	1	1	0	600	600	0
1/13/2025 19:08	55002	NEWP_T1	3	3	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/13/2025 19:08	63601	LETO_T1	0	0	0	0	0	0	0.64	0.62	1	1	0	900	900	0
1/13/2025 19:08	63602	LETO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:09	45502	DERR_T2	7	5	-2	0.39	0.77	0.38	0	0	0	0	0	0	0	0
1/13/2025 19:09	53501	EVIL_T2	1	2	1	0.4	0.2	-0.2	-1.8	-1.76	2	2	0	1200	1200	0
1/13/2025 19:09	48902	FOSP_T2	0	0	0	0	0	0	0.01	0.1	0	0	0	0	0	0
1/13/2025 19:09	63602	LETO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:09	24101	EHAZ_T1	63	74	11	2.22	2.14	-0.08	0	0	0	0	0	0	0	0
1/13/2025 19:09	66505	SMAN_T2	3	2	-1	0.17	0.2	0.03	0	0	0	0	0	0	0	0
1/13/2025 19:09	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.21	0.27	2	2	0	1800	1800	0
1/13/2025 19:09	41902	REED_T1	0	14	14	0	0.25	0.25	0	0	0	0	0	0	0	0
1/13/2025 19:09	64301	LINC_T1	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
1/13/2025 19:09	44905	SCOT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:09	42701	AUGU_T1	4	5	1	0.55	0.17	-0.38	0	0	1	1	0	600	600	0
1/13/2025 19:09	24105	EHAZ_T1	16	16	0	2.82	2.23	-0.59	0	0	0	0	0	0	0	0
1/13/2025 19:09	44904	SCOT_T1	0	0	0	0	0	0	0.63	0.65	0	0	0	0	0	0
1/13/2025 19:09	55405	SHER_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/13/2025 19:09	24103	EHAZ_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/13/2025 19:09	63501	HEID_TBK1-2	5	4	-1	0.12	0.15	0.03	-0.54	-0.51	1	1	0	900	900	0
1/13/2025 19:09	66504	SMAN_T2	0	0	0	0	0	0	-1.75	-1.78	1	1	0	1200	1200	0
1/13/2025 19:09	44901	SCOT_T2	0	0	0	0	0	0	-0.12	-0.16	0	0	0	0	0	0
1/13/2025 19:09	24102	EHAZ_T1	28	28	0	0.7	0.67	-0.03	-0.32	-0.34	0	0	0	0	0	0
1/13/2025 19:09	63601	LETO_T1	0	0	0	0	0	0	0.64	0.62	1	1	0	900	900	0
1/13/2025 19:10	12601	MACA_T1	0	0	0	0	0	0	0.86	0.86	0	0	0	0	0	0
1/13/2025 19:10	45302	WBER_T2	0	2	2	0	0.1	0.1	0.64	0.67	0	0	0	0	0	0
1/13/2025 19:10	52402	GRPA_T2	1	7	6	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
1/13/2025 19:10	40101	HUNT_T2	502	526	24	1.25	1.14	-0.11	-1.64	-1.65	0	0	0	0	0	0
1/13/2025 19:10	52401	GRPA_T2	5	11	6	0.5	0.65	0.15	0	0	0	0	0	0	0	0
1/13/2025 19:10	43801	SWIL_T1	2	2	0	3.15	2.95	-0.2	0	0	0	0	0	0	0	0
1/13/2025 19:10	44201	POIN_T1	0	0	0	0	0	0	-1.38	-1.34	1	1	0	1200	1200	0
1/13/2025 19:10	45303	WBER_T2	1	1	0	9.9	9.9	0	0	0	0	0	0	0	0	0
1/13/2025 19:10	52403	GRPA_T2	4	11	7	0.48	0.35	-0.13	0	0	0	0	0	0	0	0
1/13/2025 19:10	66504	SMAN_T2	0	0	0	0	0	0	-1.75	-1.78	1	1	0	1200	1200	0
1/13/2025 19:10	43802	SWIL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:10	52404	GRPA_T2	0	2	2	0	0	0	-0.23	-0.24	0	0	0	0	0	0
1/13/2025 19:10	46802	HEPB_T1	1	1	0	1.5	1.6	0.1	-1.16	-1.2	0	0	0	0	0	0
1/13/2025 19:10	40201	BEGA_T2	1	4	3	1.9	1.6	-0.3	0	0	0	0	0	0	0	0
1/13/2025 19:10	66505	SMAN_T2	3	2	-1	0.17	0.2	0.03	0	0	0	0	0	0	0	0
1/13/2025 19:10	61102	BERK_T5	1	1	0	0.7	0.4	-0.3	0.13	0.14	1	1	0	300	300	0
1/13/2025 19:11	44801	EDAN_T2	0	0	0	0	0	0	-0.74	-0.76	0	0	0	0	0	0
1/13/2025 19:11	42701	AUGU_T1	4	5	1	0.55	0.17	-0.38	0	0	1	1	0	600	600	0
1/13/2025 19:11	46203	DANV_T2	8	11	3	0.54	0.91	0.37	0	0	0	0	0	0	0	0
1/13/2025 19:11	40201	BEGA_T2	1	4	3	1.9	1.6	-0.3	0	0	0	0	0	0	0	0
1/13/2025 19:11	57205	ROSS_T1	0	0	0	0	0	0	-1.44	-1.46	0	0	0	0	0	0
1/13/2025 19:11	66504	SMAN_T2	0	0	0	0	0	0	-1.75	-1.78	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/13/2025 19:11	40101	HUNT_T2	502	526	24	1.25	1.14	-0.11	-1.64	-1.65	0	0	0	0	0	0
1/13/2025 19:11	46206	DANV_T2	4	4	0	0.18	0	-0.18	1.65	1.57	2	2	0	2100	2100	0
1/13/2025 19:11	66505	SMAN_T2	3	2	-1	0.17	0.2	0.03	0	0	0	0	0	0	0	0
1/13/2025 19:11	44301	BEAV_T2	0	3	3	0	0.65	0.65	0	0	0	0	0	0	0	0
1/13/2025 19:12	10801	CHHI_T1	4	4	0	0.3	0	-0.3	-6.04	-6.06	9	9	0	6300	6300	0
1/13/2025 19:12	64301	LINC_T1	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
1/13/2025 19:12	44501	HAMI_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/13/2025 19:12	63501	HEID_TBK1-2	5	4	-1	0.12	0.15	0.03	-0.54	-0.51	1	1	0	900	900	0
1/13/2025 19:12	44502	HAMI_T2	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
1/13/2025 19:12	52402	GRPA_T2	1	7	6	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
1/13/2025 19:12	52401	GRPA_T2	5	11	6	0.5	0.65	0.15	0	0	0	0	0	0	0	0
1/13/2025 19:12	43401	BENT_T1	1	12	11	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/13/2025 19:12	44505	HAMI_T2	1	1	0	0.1	0.1	0	-0.37	-0.35	0	0	0	0	0	0
1/13/2025 19:12	52403	GRPA_T2	4	11	7	0.48	0.35	-0.13	0	0	0	0	0	0	0	0
1/13/2025 19:12	52404	GRPA_T2	0	2	2	0	0	0	-0.23	-0.24	0	0	0	0	0	0
1/13/2025 19:12	42903	MIDD_T2	2	2	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
1/13/2025 19:12	42701	AUGU_T1	4	5	1	0.55	0.17	-0.38	0	0	1	1	0	600	600	0
1/13/2025 19:12	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:12	41902	REED_T1	0	14	14	0	0.25	0.25	0	0	0	0	0	0	0	0
1/13/2025 19:12	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:12	42902	MIDD_T2	1	1	0	0.7	0.7	0	-0.59	-0.54	0	0	0	0	0	0
1/13/2025 19:12	13702	SCHN_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
1/13/2025 19:12	55002	NEWP_T1	3	3	0	0.3	0.4	0.1	-0.18	-0.2	0	0	0	0	0	0
1/13/2025 19:12	43304	WATS_T2	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
1/13/2025 19:12	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.89	1	1	0	900	900	0
1/13/2025 19:13	55101	WERT_T1	0	0	0	0	0	0	-1.83	-1.79	2	2	0	1500	1500	0
1/13/2025 19:13	52001	LING_T1	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
1/13/2025 19:13	58102	NEKI_T1	1	1	0	0.7	0.6	-0.1	-0.97	-1.05	0	0	0	0	0	0
1/13/2025 19:13	52003	LING_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:13	54201	PENN_T1	21	36	15	0.45	0.36	-0.09	0	0	0	0	0	0	0	0
1/13/2025 19:13	42903	MIDD_T2	2	2	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
1/13/2025 19:13	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.21	0.27	2	2	0	1800	1800	0
1/13/2025 19:13	45502	DERR_T2	7	5	-2	0.39	0.77	0.38	0	0	0	0	0	0	0	0
1/13/2025 19:13	54203	PENN_T1	18	18	0	0.91	1.02	0.11	-0.03	-0.02	0	0	0	0	0	0
1/13/2025 19:13	42902	MIDD_T2	1	1	0	0.7	0.7	0	-0.59	-0.54	0	0	0	0	0	0
1/13/2025 19:13	54506	ENOL_T2	0	0	0	0	0	0	0.47	0.55	1	0	-1	600	0	-600
1/13/2025 19:14	55001	NEWP_T1	0	1	1	0	0	0	-0.77	-0.78	1	1	0	600	600	0
1/13/2025 19:14	52202	DEVO_T2	0	0	0	0	0	0	-1.14	-1.13	0	0	0	0	0	0
1/13/2025 19:14	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:14	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.21	0.27	2	2	0	1800	1800	0
1/13/2025 19:14	42701	AUGU_T1	4	5	1	0.55	0.17	-0.38	0	0	0	0	0	0	0	0
1/13/2025 19:14	20601	GRWO_T2	2	2	0	2.55	4.8	2.25	0	0	0	0	0	0	0	0
1/13/2025 19:14	44501	HAMI_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/13/2025 19:14	52502	PROG_T2	0	0	0	0	0	0	-0.42	-0.43	1	1	0	900	900	0
1/13/2025 19:14	53501	EVIL_T2	1	2	1	0.4	0.2	-0.2	-0.9	-0.88	1	1	0	600	600	0
1/13/2025 19:14	13501	MCMI_T1	2	2	0	1.25	0.6	-0.65	0	0	0	0	0	0	0	0
1/13/2025 19:14	44505	HAMI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/13/2025 19:14	13702	SCHN_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
1/13/2025 19:14	44502	HAMI_T2	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
1/13/2025 19:14	47001	HUGH_T2	3	3	0	6.13	6.43	0.3	-1.57	-1.55	1	1	0	900	900	0
1/13/2025 19:14	62102	ELAN_T1	0	0	0	0	0	0	0.79	0.73	0	0	0	0	0	0
1/13/2025 19:14	54601	SUMM_T2	0	0	0	0	0	0	-1.74	-1.73	2	2	0	2100	2100	0
1/13/2025 19:14	45502	DERR_T2	7	5	-2	0.39	0.77	0.38	0	0	0	0	0	0	0	0
1/13/2025 19:14	52204	DEVO_T2	0	4	4	0	0.7	0.7	0	0	0	0	0	0	0	0
1/13/2025 19:14	55002	NEWP_T1	3	3	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/13/2025 19:14	20603	GRWO_T2	0	4	4	0	0.1	0.1	-0.48	-0.48	1	1	0	900	900	0
1/13/2025 19:14	13704	SCHN_T2	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
1/13/2025 19:14	44902	SCOT_T2	0	0	0	0	0	0	-0.95	-0.93	0	0	0	0	0	0
1/13/2025 19:15	55001	NEWP_T1	0	1	1	0	0.2	0.2	-0.77	-0.78	1	1	0	600	600	0
1/13/2025 19:15	45802	HEGI_T2	44	48	4	0.81	1.66	0.85	0	0	0	0	0	0	0	0
1/13/2025 19:15	40201	BEGA_T2	1	4	3	1.6	0.25	-1.35	0	0	0	0	0	0	0	0
1/13/2025 19:15	66505	SMAN_T2	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
1/13/2025 19:15	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:15	55002	NEWP_T1	2	3	1	0.4	0.53	0.13	0	0	0	0	0	0	0	0
1/13/2025 19:15	55101	WERT_T1	0	0	0	0	0	0	-1.83	-1.79	2	2	0	1500	1500	0
1/13/2025 19:15	40101	HUNT_T2	465	547	82	1.14	1.49	0.35	-1.64	-1.65	0	0	0	0	0	0
1/13/2025 19:15	65205	PRIN_T1	1	2	1	1.1	1.1	0	0	0	0	0	0	0	0	0
1/13/2025 19:16	46203	DANV_T2	11	9	-2	0.91	0.61	-0.3	0	0	0	0	0	0	0	0
1/13/2025 19:16	44201	POIN_T1	0	0	0	0	0	0	-2.77	-2.69	2	2	0	2400	2400	0
1/13/2025 19:16	52402	GRPA_T2	1	10	9	0.4	0.38	-0.02	-0.9	-0.95	0	0	0	0	0	0
1/13/2025 19:16	45501	DERR_T2	0	0	0	0	0	0	0.21	0.27	2	2	0	1800	1800	0
1/13/2025 19:16	40602	PIGR_T1	3	1	-2	0.17	0.1	-0.07	-1.64	-1.59	1	1	0	600	600	0
1/13/2025 19:16	45502	DERR_T2	4	5	1	0.65	0.83	0.18	-0.58	-0.58	0	0	0	0	0	0
1/13/2025 19:16	44902	SCOT_T2	0	0	0	0	0	0	-0.95	-0.93	0	0	0	0	0	0
1/13/2025 19:16	13702	SCHN_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
1/13/2025 19:16	41902	REED_T1	7	13	6	0.37	0.33	-0.04	0.61	0.58	2	2	0	1800	1800	0
1/13/2025 19:16	52403	GRPA_T2	3	13	10	0.43	0.58	0.15	0	0	0	0	0	0	0	0
1/13/2025 19:16	61702	ELIZ_T2	0	0	0	0	0	0	-0.68	-0.69	1	1	0	300	300	0
1/13/2025 19:16	52404	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/13/2025 19:16	46206	DANV_T2	0	5	5	0	0.38	0.38	1.65	1.57	2	2	0	2100	2100	0
1/13/2025 19:16	61703	ELIZ_T1	0	0	0	0	0	0	-0.79	-0.84	1	1	0	900	900	0
1/13/2025 19:16	64101	REFR_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
1/13/2025 19:16	40601	PIGR_T1	11	7	-4	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
1/13/2025 19:16	52401	GRPA_T2	2	11	9	0.65	0.67	0.02	0	0	0	0	0	0	0	0
1/13/2025 19:16	43304	WATS_T2	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
1/13/2025 19:16	61704	ELIZ_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
1/13/2025 19:16	12602	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:16	53501	EVIL_T2	2	1	-1	0.15	0.2	0.05	-0.9	-0.88	1	1	0	600	600	0
1/13/2025 19:16	61701	ELIZ_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
1/13/2025 19:17	42902	MIDD_T2	1	4	3	0.7	0.9	0.2	0	0	0	0	0	0	0	0
1/13/2025 19:17	40201	BEGA_T2	1	4	3	1.6	0.25	-1.35	0	0	0	0	0	0	0	0
1/13/2025 19:17	41902	REED_T1	7	13	6	0.37	0.33	-0.04	0.61	0.58	2	2	0	1800	1800	0
1/13/2025 19:17	59101	WALK_T2	1	1	0	1.9	3.1	1.2	0.82	0.8	1	1	0	600	600	0
1/13/2025 19:17	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:17	42903	MIDD_T2	2	2	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
1/13/2025 19:18	67402	WAKE_T2	0	0	0	0	0	0	-0.36	-0.39	1	1	0	600	600	0
1/13/2025 19:18	13702	SCHN_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
1/13/2025 19:18	44201	POIN_T1	0	0	0	0	0	0	-1.38	-1.34	1	1	0	1200	1200	0
1/13/2025 19:18	58402	MORO_T1	41	18	-23	0.32	0.24	-0.08	0	0	0	0	0	0	0	0
1/13/2025 19:18	40201	BEGA_T2	1	4	3	1.6	0.25	-1.35	0	0	0	0	0	0	0	0
1/13/2025 19:18	58401	MORO_T1	0	0	0	0	0	0	-0.95	-0.98	1	1	0	600	600	0
1/13/2025 19:18	44801	EDAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:18	41902	REED_T1	7	13	6	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
1/13/2025 19:18	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:19	44502	HAMI_T2	1	1	0	3.1	2.2	-0.9	0	0	0	0	0	0	0	0
1/13/2025 19:19	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
1/13/2025 19:19	59101	WALK_T2	1	1	0	1.9	3.1	1.2	0.82	0.8	1	1	0	600	600	0
1/13/2025 19:19	63501	HEID_TBK1-2	4	1	-3	0.15	0.1	-0.05	-1.08	-1.02	2	2	0	1800	1800	0
1/13/2025 19:19	44505	HAMI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/13/2025 19:19	52101	MEIS_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/13/2025 19:19	44301	BEAV_T2	2	2	0	0.65	0.95	0.3	0	0	0	0	0	0	0	0
1/13/2025 19:19	47101	MARL_T1	47	63	16	0.66	0.73	0.07	0	0	0	0	0	0	0	0
1/13/2025 19:19	65802	RTWN_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
1/13/2025 19:19	53501	EVIL_T2	2	1	-1	0.15	0.2	0.05	-0.9	-0.88	1	1	0	600	600	0
1/13/2025 19:19	43304	WATS_T2	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
1/13/2025 19:19	21501	CEAV_T2	1	1	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
1/13/2025 19:19	47104	MARL_T1	0	0	0	0	0	0	-0.77	-0.8	0	0	0	0	0	0
1/13/2025 19:20	43304	WATS_T2	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
1/13/2025 19:20	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/13/2025 19:20	64101	REFR_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
1/13/2025 19:20	42903	MIDD_T2	2	2	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
1/13/2025 19:20	64301	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:20	55002	NEWP_T1	2	3	1	0.4	0.53	0.13	-0.18	-0.2	0	0	0	0	0	0
1/13/2025 19:20	44201	POIN_T1	0	0	0	0	0	0	-1.38	-1.34	1	1	0	1200	1200	0
1/13/2025 19:20	42902	MIDD_T2	1	4	3	0.7	0.9	0.2	-1.18	-1.08	0	0	0	0	0	0
1/13/2025 19:21	52204	DEVO_T2	4	2	-2	0.78	0.5	-0.28	0	0	0	0	0	0	0	0
1/13/2025 19:21	64101	REFR_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
1/13/2025 19:21	55101	WERT_T1	0	0	0	0	0	0	-1.79	-1.83	2	2	0	1500	1500	0
1/13/2025 19:21	52202	DEVO_T2	0	0	0	0	0	0	-1.13	-1.15	0	0	0	0	0	0
1/13/2025 19:22	66505	SMAN_T2	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
1/13/2025 19:22	66504	SMAN_T2	0	0	0	0	0	0	-1.78	-1.77	1	1	0	1200	1200	0
1/13/2025 19:23	53501	EVIL_T2	2	1	-1	0.15	0.2	0.05	-0.88	-0.91	1	1	0	600	600	0
1/13/2025 19:23	66504	SMAN_T2	0	0	0	0	0	0	-1.78	-1.77	1	1	0	1200	1200	0
1/13/2025 19:23	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2025 19:23	66505	SMAN_T2	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
1/13/2025 19:23	41902	REED_T1	7	13	6	0.37	0.33	-0.04	0.29	0.29	1	1	0	900	900	0
1/13/2025 19:23	59101	WALK_T2	1	1	0	1.9	3.1	1.2	0.8	0.74	1	1	0	600	600	0
1/13/2025 19:24	44905	SCOT_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
1/13/2025 19:24	43304	WATS_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
1/13/2025 19:24	55101	WERT_T1	0	0	0	0	0	0	-1.79	-1.83	2	2	0	1500	1500	0
1/13/2025 19:25	55002	NEWP_T1	2	3	1	0.4	0.53	0.13	0	0	0	0	0	0	0	0
1/13/2025 19:25	52404	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/13/2025 19:25	52402	GRPA_T2	1	10	9	0.4	0.38	-0.02	-0.95	-0.92	0	0	0	0	0	0
1/13/2025 19:25	52403	GRPA_T2	3	13	10	0.43	0.58	0.15	0	0	0	0	0	0	0	0
1/13/2025 19:25	55001	NEWP_T1	0	1	1	0	0.2	0.2	-0.78	-0.81	1	1	0	600	600	0
1/13/2025 19:25	52401	GRPA_T2	2	11	9	0.65	0.67	0.02	0	0	0	0	0	0	0	0
1/13/2025 19:37	44801	EDAN_T2	0	2	2	0	0.3	0.3	-0.41	-0.37	0	0	0	0	0	0
1/13/2025 19:57	67402	WAKE_T2	0	0	0	0	0	0	-0.38	-0.37	1	1	0	600	600	0
1/14/2025 0:16	26704	HEML_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
1/14/2025 7:55	55101	WERT_T1	0	0	0	0	0	0	-1.29	-1.26	2	2	0	1500	1500	0
1/14/2025 7:56	55101	WERT_T1	0	0	0	0	0	0	-1.29	-1.26	2	2	0	1500	1500	0
1/14/2025 7:57	49804	UNIV_T1	0	0	0	0	0	0	0.76	0.71	0	0	0	0	0	0
1/14/2025 7:57	49803	UNIV_T1	1	0	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
1/14/2025 8:11	42501	ALTA_T2	1	1	0	0	0.1	0.1	-1.28	-1.31	1	1	0	600	600	0
1/14/2025 8:11	42504	ALTA_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
1/14/2025 8:12	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 8:16	41305	FISH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 8:16	41301	FISH_T1	2	3	1	0.75	1.37	0.62	0	0	0	0	0	0	0	0
1/14/2025 8:16	53502	EVIL_T2	13	9	-4	0.84	3.5	2.66	0	0	0	0	0	0	0	0
1/14/2025 8:16	53501	EVIL_T2	4	2	-2	0.28	0.8	0.52	0	0	0	0	0	0	0	0
1/14/2025 8:18	64901	MILL_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 8:18	64904	MILL_T1	0	0	0	0	0	0	-0.17	-0.14	0	0	0	0	0	0
1/14/2025 8:19	26704	HEML_T2	1	0	-1	0.7	0	-0.7	-0.31	-0.35	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/14/2025 8:26	16102	BING_T2	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
1/14/2025 8:26	55101	WERT_T1	0	0	0	0	0	0	-1.24	-1.23	2	2	0	1500	1500	0
1/14/2025 8:27	45501	DERR_T2	0	2	2	0	0	0	1.78	1.52	4	4	0	3600	3600	0
1/14/2025 8:27	45502	DERR_T2	4	4	0	0.48	0.1	-0.38	0	0	0	0	0	0	0	0
1/14/2025 8:40	41901	REED_T1	7	6	-1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
1/14/2025 8:40	41902	REED_T1	4	0	-4	0.38	0	-0.38	0.46	0.46	1	1	0	900	900	0
1/14/2025 8:44	53502	EVIL_T2	2	8	6	1.8	3.4	1.6	0	0	0	0	0	0	0	0
1/14/2025 8:44	53501	EVIL_T2	1	2	1	1.3	0.85	-0.45	-0.92	-0.95	2	2	0	1200	1200	0
1/14/2025 8:46	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/14/2025 8:46	44502	HAMI_T2	1	1	0	2.4	2.2	-0.2	0.05	0.06	0	0	0	0	0	0
1/14/2025 8:46	52403	GRPA_T2	8	9	1	0.91	0.33	-0.58	-0.02	-0.04	0	0	0	0	0	0
1/14/2025 8:46	52402	GRPA_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
1/14/2025 8:47	20601	GRWO_T2	54	66	12	0.59	0.61	0.02	0.71	0.75	0	0	0	0	0	0
1/14/2025 8:48	53502	EVIL_T2	8	1	-7	0.6	2.3	1.7	0.36	0.34	2	2	0	1200	1200	0
1/14/2025 8:48	53501	EVIL_T2	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
1/14/2025 8:51	53803	MBRG_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
1/14/2025 8:51	13503	MCMI_T2	1	0	-1	0.2	0	-0.2	0.39	0.36	0	0	0	0	0	0
1/14/2025 8:52	56501	ROCK_T2	1	1	0	3.9	4.6	0.7	-1.58	-1.69	0	0	0	0	0	0
1/14/2025 8:59	29402	BELT_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
1/14/2025 8:59	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 9:00	52402	GRPA_T2	0	7	7	0	0.3	0.3	0	0	0	0	0	0	0	0
1/14/2025 9:00	52403	GRPA_T2	6	14	8	0.38	0.33	-0.05	-0.04	-0.04	0	0	0	0	0	0
1/14/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
1/14/2025 9:00	52404	GRPA_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 9:00	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 9:00	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/14/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.26	0.22	0	0	0	0	0	0
1/14/2025 9:01	45801	HEGI_T1	0	0	0	0	0	0	-0.6	-0.59	1	1	0	900	900	0
1/14/2025 9:04	65001	NEFF_T2	190	223	33	0.2	0.34	0.14	0	0	0	0	0	0	0	0
1/14/2025 9:04	65004	NEFF_T2	0	0	0	0	0	0	-1.03	-1.02	1	1	0	600	600	0
1/14/2025 9:05	51204	MTON_T2	0	0	0	0	0	0	0.28	0.31	0	0	0	0	0	0
1/14/2025 9:06	65001	NEFF_T2	190	223	33	0.2	0.34	0.14	-0.63	-0.66	1	1	0	1200	1200	0
1/14/2025 9:07	65702	RVIL_T2	0	1	1	0	0	0	-1.31	-1.3	1	1	0	600	600	0
1/14/2025 9:07	13503	MCMI_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
1/14/2025 9:07	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 9:07	55002	NEWP_T1	6	7	1	0.58	0.73	0.15	-0.11	-0.12	0	0	0	0	0	0
1/14/2025 9:08	55002	NEWP_T1	6	7	1	0.58	0.73	0.15	-0.11	-0.12	0	0	0	0	0	0
1/14/2025 9:08	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 9:09	55101	WERT_T1	0	2	2	0	0	0	-2.43	-2.22	4	4	0	3000	3000	0
1/14/2025 9:09	44901	SCOT_T2	0	1	1	0	0.3	0.3	0.09	0.11	0	0	0	0	0	0
1/14/2025 9:09	65702	RVIL_T2	0	1	1	0	0	0	-1.31	-1.3	1	1	0	600	600	0
1/14/2025 9:09	67402	WAKE_T2	0	1	1	0	0.1	0.1	0.48	0.39	1	1	0	600	600	0
1/14/2025 9:09	44902	SCOT_T2	33	4	-29	0.13	0.18	0.05	-0.89	-0.87	0	0	0	0	0	0
1/14/2025 9:09	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 9:10	55101	WERT_T1	0	2	2	0	0	0	-1.22	-1.11	2	2	0	1500	1500	0
1/14/2025 9:10	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 9:12	46203	DANV_T2	1	5	4	0.2	0.35	0.15	0	0	0	0	0	0	0	0
1/14/2025 9:12	46206	DANV_T2	5	7	2	0.38	0.3	-0.08	2.74	2.69	1	1	0	1200	1200	0
1/14/2025 9:12	46204	DANV_T2	3	7	4	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/14/2025 9:13	55101	WERT_T1	0	2	2	0	0	0	-1.22	-1.11	2	2	0	1500	1500	0
1/14/2025 9:13	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 9:14	29402	BELT_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
1/14/2025 9:14	45501	DERR_T2	0	1	1	0	0	0	1.38	1.43	4	4	0	3600	3600	0
1/14/2025 9:14	45502	DERR_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/14/2025 9:14	46206	DANV_T2	5	7	2	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
1/14/2025 9:14	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 9:14	46203	DANV_T2	1	5	4	0.2	0.35	0.15	-0.28	-0.32	0	0	0	0	0	0
1/14/2025 9:14	46204	DANV_T2	3	7	4	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/14/2025 9:14	41801	GOCI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/14/2025 9:15	29402	BELT_T1	1	1	0	5	5.5	0.5	0	0	0	0	0	0	0	0
1/14/2025 9:15	46204	DANV_T2	6	2	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/14/2025 9:15	46203	DANV_T2	2	5	3	0.35	0.8	0.45	-0.28	-0.32	0	0	0	0	0	0
1/14/2025 9:15	41801	GOCI_T2	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
1/14/2025 9:15	46206	DANV_T2	5	6	1	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
1/14/2025 9:16	52401	GRPA_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/14/2025 9:16	52403	GRPA_T2	7	18	11	0.33	0.42	0.09	0	0	0	0	0	0	0	0
1/14/2025 9:16	46203	DANV_T2	2	5	3	0.35	0.8	0.45	0	0	0	0	0	0	0	0
1/14/2025 9:16	44801	EDAN_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
1/14/2025 9:16	46206	DANV_T2	5	6	1	0.28	0.2	-0.08	2.74	2.69	1	1	0	1200	1200	0
1/14/2025 9:16	52404	GRPA_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 9:16	52402	GRPA_T2	4	3	-1	0.3	0.73	0.43	-0.73	-0.67	0	0	0	0	0	0
1/14/2025 9:16	46204	DANV_T2	6	2	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/14/2025 9:17	26704	HEMI_T2	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
1/14/2025 9:21	41902	REED_T1	0	2	2	0	0	0	0.87	0.85	2	2	0	1800	1800	0
1/14/2025 9:21	41901	REED_T1	6	7	1	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
1/14/2025 9:22	13702	SCHN_T1	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
1/14/2025 9:23	41902	REED_T1	0	2	2	0	0	0	0.42	0.45	1	1	0	900	900	0
1/14/2025 9:23	41901	REED_T1	6	7	1	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
1/14/2025 9:24	41902	REED_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 9:24	55101	WERT_T1	0	2	2	0	0	0	-1.11	-1.29	2	2	0	1500	1500	0
1/14/2025 9:24	56501	ROCK_T2	1	1	0	5.8	2.3	-3.5	-1.74	-1.76	0	0	0	0	0	0
1/14/2025 9:24	41903	REED_T1	0	0	0	0	0	0	0.17	0.18	1	1	0	1200	1200	0
1/14/2025 9:24	41901	REED_T1	6	7	1	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
1/14/2025 9:27	59101	WALK_T2	0	0	0	0	0	0	1.71	1.52	1	1	0	600	600	0
1/14/2025 9:27	66505	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
1/14/2025 9:27	66503	SMAN_T2	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
1/14/2025 9:28	11103	EGYP_T1	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0
1/14/2025 9:28	55101	WERT_T1	0	2	2	0	0	0	-2.22	-2.58	4	4	0	3000	3000	0
1/14/2025 9:28	11101	EGYP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/14/2025 9:30	20603	GRWO_T2	0	0	0	0	0	0	-0.5	-0.52	1	1	0	900	900	0
1/14/2025 9:30	16102	BING_T2	0	0	0	0	0	0	0.08	0.16	0	0	0	0	0	0
1/14/2025 9:30	20601	GRWO_T2	54	46	-8	0.69	0.49	-0.2	0	0	0	0	0	0	0	0
1/14/2025 9:31	20601	GRWO_T2	54	46	-8	0.69	0.49	-0.2	0.68	0.68	0	0	0	0	0	0
1/14/2025 9:31	63501	HEID_TBK1-2	2	1	-1	0.1	0.1	0	0.32	0.16	1	1	0	900	900	0
1/14/2025 9:33	63501	HEID_TBK1-2	2	1	-1	0.1	0.1	0	0.32	0.16	1	1	0	900	900	0
1/14/2025 9:34	65502	MOJO_T2	25	13	-12	0.1	0.11	0.01	0	0	0	0	0	0	0	0
1/14/2025 9:34	63501	HEID_TBK1-2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
1/14/2025 9:35	20601	GRWO_T2	54	46	-8	0.69	0.49	-0.2	0.68	0.68	0	0	0	0	0	0
1/14/2025 9:35	65503	MOJO_T2	0	0	0	0	0	0	-1.14	-1.06	1	1	0	900	900	0
1/14/2025 9:35	65502	MOJO_T2	25	13	-12	0.1	0.11	0.01	-1.1	-1.13	1	1	0	900	900	0
1/14/2025 9:35	67303	WYOM_T2	0	0	0	0	0	0	-0.37	0.57	0	0	0	0	0	0
1/14/2025 9:36	65502	MOJO_T2	25	13	-12	0.1	0.11	0.01	0	0	0	0	0	0	0	0
1/14/2025 9:36	65503	MOJO_T2	0	0	0	0	0	0	-1.14	-1.06	1	1	0	900	900	0
1/14/2025 9:38	65502	MOJO_T2	25	13	-12	0.1	0.11	0.01	-1.13	-1.07	1	1	0	900	900	0
1/14/2025 9:38	65503	MOJO_T2	0	0	0	0	0	0	-1.06	-1.04	1	1	0	900	900	0
1/14/2025 9:40	65502	MOJO_T2	25	13	-12	0.1	0.11	0.01	-1.13	-1.07	1	1	0	900	900	0
1/14/2025 9:41	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 9:41	55101	WERT_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/14/2025 9:41	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 9:42	14801	TREI_T2	0	1	1	0	0.2	0.2	1.4	1.42	0	0	0	0	0	0
1/14/2025 9:43	55002	NEWP_T1	6	6	0	0.73	1.2	0.47	-0.14	-0.12	0	0	0	0	0	0
1/14/2025 9:43	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 9:44	29402	BELT_T1	1	1	0	5.5	6.5	1	0	0	0	0	0	0	0	0
1/14/2025 9:44	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/14/2025 9:44	65502	MOJO_T2	25	13	-12	0.1	0.11	0.01	0	0	0	0	0	0	0	0
1/14/2025 9:45	46204	DANV_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/14/2025 9:45	46203	DANV_T2	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
1/14/2025 9:45	53501	EVIL_T2	1	3	2	1.1	0.95	-0.15	-0.92	-0.6	2	2	0	1200	1200	0
1/14/2025 9:45	53502	EVIL_T2	1	14	13	3.9	2.8	-1.1	0	0	0	0	0	0	0	0
1/14/2025 9:45	46206	DANV_T2	2	0	-2	0.2	0	-0.2	2.88	2.88	1	1	0	1200	1200	0
1/14/2025 9:46	53502	EVIL_T2	1	14	13	3.9	2.8	-1.1	0	0	0	0	0	0	0	0
1/14/2025 9:46	53501	EVIL_T2	1	3	2	1.1	0.95	-0.15	0	0	0	0	0	0	0	0
1/14/2025 9:47	53502	EVIL_T2	1	14	13	3.9	2.8	-1.1	0	0	0	0	0	0	0	0
1/14/2025 9:47	53501	EVIL_T2	1	3	2	1.1	0.95	-0.15	-0.46	-0.3	1	1	0	600	600	0
1/14/2025 9:47	59101	WALK_T2	0	0	0	0	0	0	1.52	1.91	1	1	0	600	600	0
1/14/2025 9:48	53501	EVIL_T2	1	3	2	1.1	0.95	-0.15	-0.92	-0.6	2	2	0	1200	1200	0
1/14/2025 9:48	53502	EVIL_T2	1	14	13	3.9	2.8	-1.1	0	0	0	0	0	0	0	0
1/14/2025 9:49	44502	HAMI_T2	1	2	1	2.2	2.1	-0.1	0.05	0.06	0	0	0	0	0	0
1/14/2025 9:51	44901	SCOT_T2	3	2	-1	0.33	0.75	0.42	0.15	0.2	0	0	0	0	0	0
1/14/2025 9:51	44902	SCOT_T2	228	22	-206	0.21	0.16	-0.05	0	0	0	0	0	0	0	0
1/14/2025 9:53	44901	SCOT_T2	3	2	-1	0.33	0.75	0.42	0	0	0	0	0	0	0	0
1/14/2025 9:53	44902	SCOT_T2	228	22	-206	0.21	0.16	-0.05	-0.9	-0.92	0	0	0	0	0	0
1/14/2025 9:54	41902	REED_T1	0	4	4	0	0	0	0.41	0.43	1	1	0	900	900	0
1/14/2025 9:54	41901	REED_T1	7	7	0	0.39	0.34	-0.05	0	0	0	0	0	0	0	0
1/14/2025 9:56	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/14/2025 9:56	44302	BEAV_T2	2	5	3	0.15	0.18	0.03	0	0	0	0	0	0	0	0
1/14/2025 9:56	14802	TREI_T2	0	0	0	0	0	0	0.62	0.55	0	0	0	0	0	0
1/14/2025 9:56	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 9:58	49803	UNIV_T1	1	1	0	6	5.6	-0.4	0	0	0	0	0	0	0	0
1/14/2025 9:58	49804	UNIV_T1	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
1/14/2025 9:58	15103	UPHA_T2	3	12	9	0.33	0.19	-0.14	-0.81	-0.79	0	0	0	0	0	0
1/14/2025 9:58	11101	EGYP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/14/2025 9:58	11104	EGYP_T1	0	1	1	0	0	0	0.5	0.45	0	0	0	0	0	0
1/14/2025 9:58	40802	EXCH_T2	1	1	0	0.6	0.4	-0.2	-0.55	-0.5	0	0	0	0	0	0
1/14/2025 10:00	52403	GRPA_T2	35	17	-18	0.63	0.89	0.26	0.01	-0.02	0	0	0	0	0	0
1/14/2025 10:00	11104	EGYP_T1	0	1	1	0	0.1	0.1	0.5	0.45	0	0	0	0	0	0
1/14/2025 10:00	11101	EGYP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/14/2025 10:00	55002	NEWP_T1	6	8	2	0.92	0.78	-0.14	-0.12	-0.13	0	0	0	0	0	0
1/14/2025 10:00	52401	GRPA_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/14/2025 10:00	52402	GRPA_T2	2	3	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/14/2025 10:01	46203	DANV_T2	0	0	0	0	0	0	-0.35	-0.4	0	0	0	0	0	0
1/14/2025 10:01	46204	DANV_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/14/2025 10:02	40802	EXCH_T2	1	1	0	0.4	0.2	-0.2	-0.55	-0.5	0	0	0	0	0	0
1/14/2025 10:02	49803	UNIV_T1	1	1	0	5.6	5.5	-0.1	-0.98	-0.98	0	0	0	0	0	0
1/14/2025 10:03	49804	UNIV_T1	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
1/14/2025 10:03	49803	UNIV_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
1/14/2025 10:06	51202	MTON_T2	0	0	0	0	0	0	-0.92	-0.94	1	1	0	1200	1200	0
1/14/2025 10:06	65702	RVIL_T2	0	0	0	0	0	0	-1.33	-1.38	1	1	0	600	600	0
1/14/2025 10:06	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
1/14/2025 10:06	52502	PROG_T2	0	1	1	0	0.4	0.4	-0.66	-0.76	2	2	0	1800	1800	0
1/14/2025 10:06	51204	MTON_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 10:07	52502	PROG_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/14/2025 10:08	57205	ROSS_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/14/2025 10:09	52502	PROG_T2	0	1	1	0	0.4	0.4	-0.33	-0.38	1	1	0	900	900	0
1/14/2025 10:11	41902	REED_T1	0	4	4	0	0.25	0.25	0.43	0.42	1	1	0	900	900	0
1/14/2025 10:11	41901	REED_T1	7	5	-2	0.34	0.26	-0.08	0	0	0	0	0	0	0	0
1/14/2025 10:12	55101	WERT_T1	0	0	0	0	0	0	-1.23	-1.3	2	2	0	1500	1500	0
1/14/2025 10:14	44801	EDAN_T2	0	0	0	0	0	0	-0.91	-0.88	0	0	0	0	0	0
1/14/2025 10:15	53501	EVIL_T2	2	2	0	0.9	0.7	-0.2	-0.42	-0.5	1	1	0	600	600	0
1/14/2025 10:15	53502	EVIL_T2	13	3	-10	1.58	1.4	-0.18	0	0	0	0	0	0	0	0
1/14/2025 10:15	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 10:16	53501	EVIL_T2	2	2	0	0.9	0.7	-0.2	-0.42	-0.5	1	1	0	600	600	0
1/14/2025 10:16	53502	EVIL_T2	13	3	-10	1.58	1.4	-0.18	0	0	0	0	0	0	0	0
1/14/2025 10:16	49803	UNIV_T1	1	1	0	5.7	5.5	-0.2	-0.98	-0.96	0	0	0	0	0	0
1/14/2025 10:16	22602	KIMB_T1	3	14	11	0.2	0.23	0.03	-0.32	-0.32	0	0	0	0	0	0
1/14/2025 10:17	53501	EVIL_T2	2	2	0	0.9	0.7	-0.2	-1.26	-1.49	3	3	0	1800	1800	0
1/14/2025 10:17	53502	EVIL_T2	13	3	-10	1.58	1.4	-0.18	0	0	0	0	0	0	0	0
1/14/2025 10:19	17802	GILB_T1	1	1	0	0.1	0.7	0.6	0.25	0.24	0	0	0	0	0	0
1/14/2025 10:21	41901	REED_T1	3	5	2	0.2	0.28	0.08	0	0	0	0	0	0	0	0
1/14/2025 10:21	41902	REED_T1	4	2	-2	0.48	0	-0.48	0.43	0.42	1	1	0	900	900	0
1/14/2025 10:22	58402	MORO_T1	0	0	0	0	0	0	-0.41	-0.45	3	3	0	2400	2400	0
1/14/2025 10:22	13702	SCHN_T1	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
1/14/2025 10:25	41902	REED_T1	4	2	-2	0.48	0	-0.48	0.42	0.36	1	1	0	900	900	0
1/14/2025 10:25	41901	REED_T1	3	5	2	0.2	0.28	0.08	0	0	0	0	0	0	0	0
1/14/2025 10:26	41901	REED_T1	3	5	2	0.2	0.28	0.08	0	0	0	0	0	0	0	0
1/14/2025 10:26	41902	REED_T1	4	2	-2	0.48	0	-0.48	0.42	0.36	1	1	0	900	900	0
1/14/2025 10:26	10805	CHHI_T2	7	4	-3	2.97	1.98	-0.99	-1.26	-1.3	1	1	0	600	600	0
1/14/2025 10:27	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 10:29	48901	FOSP_T2	5	14	9	0.3	0.37	0.07	0.04	0.02	1	1	0	600	600	0
1/14/2025 10:29	57104	SPHI_T2	3	2	-1	3.07	2.65	-0.42	-1.81	-1.78	1	1	0	900	900	0
1/14/2025 10:29	48902	FOSP_T2	10	163	153	0.29	0.29	0	0	0	0	0	0	0	0	0
1/14/2025 10:29	57106	SPHI_T2	3	3	0	1.9	1.87	-0.03	0	0	0	0	0	0	0	0
1/14/2025 10:29	61305	EARL_T1	0	0	0	0	0	0	0.42	0.58	2	2	0	1500	1500	0
1/14/2025 10:29	57101	SPHI_T2	0	6	6	0	0.25	0.25	0	0	0	0	0	0	0	0
1/14/2025 10:30	57702	PAXT_T1	0	0	0	0	0	0	0.17	0.23	0	0	0	0	0	0
1/14/2025 10:30	48901	FOSP_T2	12	13	1	0.38	0.38	0	0.04	0.02	1	1	0	600	600	0
1/14/2025 10:30	48902	FOSP_T2	147	152	5	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
1/14/2025 10:30	10801	CHHI_T1	0	1	1	0	0	0	-1.3	-1.2	2	2	0	1500	1500	0
1/14/2025 10:30	61304	EARL_T1	0	0	0	0	0	0	-0.46	-0.6	1	1	0	600	600	0
1/14/2025 10:31	53501	EVIL_T2	1	2	1	0.1	0.95	0.85	-0.5	-0.52	1	1	0	600	600	0
1/14/2025 10:31	41902	REED_T1	2	1	-1	0.25	0	-0.25	0.42	0.36	1	1	0	900	900	0
1/14/2025 10:31	41901	REED_T1	5	5	0	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
1/14/2025 10:31	48901	FOSP_T2	12	13	1	0.38	0.38	0	0.04	0.02	1	1	0	600	600	0
1/14/2025 10:31	48902	FOSP_T2	147	152	5	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
1/14/2025 10:31	53502	EVIL_T2	3	2	-1	1.47	2.6	1.13	0	0	0	0	0	0	0	0
1/14/2025 10:32	48902	FOSP_T2	147	152	5	0.29	0.27	-0.02	-0.97	-1.01	2	2	0	2400	2400	0
1/14/2025 10:32	48901	FOSP_T2	12	13	1	0.38	0.38	0	0.04	0.02	1	1	0	600	600	0
1/14/2025 10:33	48901	FOSP_T2	12	13	1	0.38	0.38	0	0	0	0	0	0	0	0	0
1/14/2025 10:33	48902	FOSP_T2	147	152	5	0.29	0.27	-0.02	-1.94	-2.01	4	4	0	4800	4800	0
1/14/2025 10:34	40901	JESH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/14/2025 10:34	57106	SPHI_T2	3	3	0	1.8	1.87	0.07	0	0	0	0	0	0	0	0
1/14/2025 10:34	61101	BERK_T5	4	5	1	0.13	0.2	0.07	0	0	0	0	0	0	0	0
1/14/2025 10:34	40902	JESH_T1	0	0	0	0	0	0	-0.95	-0.22	1	0	-1	600	0	-600
1/14/2025 10:34	57104	SPHI_T2	2	3	1	5.8	2.7	-3.1	-1.81	-1.78	1	1	0	900	900	0
1/14/2025 10:34	57101	SPHI_T2	0	6	6	0	0.25	0.25	0	0	0	0	0	0	0	0
1/14/2025 10:34	48902	FOSP_T2	147	152	5	0.29	0.27	-0.02	-0.97	-1.01	2	2	0	2400	2400	0
1/14/2025 10:34	61103	BERK_T5	1	2	1	0.1	0.15	0.05	0.13	0.12	0	0	0	0	0	0
1/14/2025 10:34	48901	FOSP_T2	12	13	1	0.38	0.38	0	0	0	0	0	0	0	0	0
1/14/2025 10:35	48901	FOSP_T2	12	13	1	0.38	0.38	0	0	0	0	0	0	0	0	0
1/14/2025 10:35	48902	FOSP_T2	147	152	5	0.29	0.27	-0.02	-0.97	-1.01	2	2	0	2400	2400	0
1/14/2025 10:36	48902	FOSP_T2	147	152	5	0.29	0.27	-0.02	-0.97	-1.01	2	2	0	2400	2400	0
1/14/2025 10:36	48901	FOSP_T2	12	13	1	0.38	0.38	0	0	0	0	0	0	0	0	0
1/14/2025 10:36	64802	MONE_T2	0	5	5	0	0.16	0.16	0.23	0.28	0	0	0	0	0	0
1/14/2025 10:37	48902	FOSP_T2	147	152	5	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
1/14/2025 10:37	48901	FOSP_T2	12	13	1	0.38	0.38	0	0.02	0.02	1	1	0	600	600	0
1/14/2025 10:37	44902	SCOT_T2	294	227	-67	0.29	0.2	-0.09	-0.88	-0.89	0	0	0	0	0	0
1/14/2025 10:37	44901	SCOT_T2	3	3	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
1/14/2025 10:38	64802	MONE_T2	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
1/14/2025 10:42	10801	CHHI_T1	0	1	1	0	0	0	-1.2	-1.2	2	2	0	1500	1500	0
1/14/2025 10:47	47203	FAXO_T2	1	1	0	1.5	1.4	-0.1	-1	-1.02	0	0	0	0	0	0
1/14/2025 10:48	58401	MORO_T1	0	0	0	0	0	0	-0.72	-0.77	1	1	0	600	600	0
1/14/2025 10:48	13503	MCMI_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
1/14/2025 10:50	51202	MTON_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 10:50	58402	MORO_T1	0	0	0	0	0	0	-0.45	-0.52	3	3	0	2400	2400	0
1/14/2025 10:50	51204	MTON_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/14/2025 10:51	46504	LOHA_T1	3	2	-1	0.27	0.4	0.13	0	0	0	0	0	0	0	0
1/14/2025 10:51	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
1/14/2025 10:51	46506	LOHA_T1	3	3	0	3.9	3.83	-0.07	0	0	0	0	0	0	0	0
1/14/2025 10:51	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 10:52	51204	MTON_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/14/2025 10:52	51202	MTON_T2	0	0	0	0	0	0	-0.91	0.38	1	0	-1	1200	0	-1200
1/14/2025 10:52	41902	REED_T1	0	1	1	0	0	0	0.42	0.4	1	1	0	900	900	0
1/14/2025 10:52	58401	MORO_T1	0	0	0	0	0	0	-0.77	-0.76	1	1	0	600	600	0
1/14/2025 10:52	41901	REED_T1	5	6	1	0.22	0.37	0.15	0	0	0	0	0	0	0	0
1/14/2025 10:53	58401	MORO_T1	0	0	0	0	0	0	-0.77	-0.76	1	1	0	600	600	0
1/14/2025 10:53	58402	MORO_T1	0	0	0	0	0	0	-0.52	-0.54	3	3	0	2400	2400	0
1/14/2025 10:54	51204	MTON_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/14/2025 10:54	51202	MTON_T2	0	0	0	0	0	0	-0.91	0.38	1	0	-1	1200	0	-1200
1/14/2025 10:55	44905	SCOT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 10:55	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 10:56	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 10:56	46506	LOHA_T1	3	3	0	3.9	3.83	-0.07	0	0	0	0	0	0	0	0
1/14/2025 10:56	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
1/14/2025 10:56	46504	LOHA_T1	3	2	-1	0.27	0.4	0.13	0	0	0	0	0	0	0	0
1/14/2025 10:56	10801	CHHI_T1	1	1	0	0.3	0.4	0.1	-1.2	-1.13	2	2	0	1500	1500	0
1/14/2025 10:57	65702	RVIL_T2	0	1	1	0	0.1	0.1	-1.34	-1.32	1	1	0	600	600	0
1/14/2025 10:57	55002	NEWP_T1	4	7	3	1.5	1.07	-0.43	-0.14	-0.15	0	0	0	0	0	0
1/14/2025 10:58	55105	WERT_T1	0	0	0	0	0	0	-0.48	-0.46	1	1	0	900	900	0
1/14/2025 11:00	16103	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 11:00	16101	BING_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
1/14/2025 11:00	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 11:04	13503	MCMI_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
1/14/2025 11:04	64305	LINC_T1	3	3	0	0.43	0.73	0.3	-0.18	-0.22	0	0	0	0	0	0
1/14/2025 11:04	13502	MCMI_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
1/14/2025 11:09	43304	WATS_T2	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0
1/14/2025 11:09	44902	SCOT_T2	17	302	285	0.19	0.27	0.08	0	0	0	0	0	0	0	0
1/14/2025 11:09	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 11:09	44901	SCOT_T2	2	5	3	1.15	0.58	-0.57	0.28	0.47	0	0	0	0	0	0
1/14/2025 11:10	15103	UPHA_T2	3	7	4	0.33	0.37	0.04	0	0	0	0	0	0	0	0
1/14/2025 11:10	43304	WATS_T2	0	0	0	0	0	0	0	-0.19	0	0	0	0	0	0
1/14/2025 11:10	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 11:10	15104	UPHA_T2	0	0	0	0	0	0	0.98	0.95	0	0	0	0	0	0
1/14/2025 11:10	46004	BERW_T2	1	2	1	0.9	0	-0.9	0	0	0	0	0	0	0	0
1/14/2025 11:10	46002	BERW_T2	0	0	0	0	0	0	-0.43	-0.34	1	1	0	900	900	0
1/14/2025 11:11	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 11:11	43304	WATS_T2	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0
1/14/2025 11:12	43304	WATS_T2	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0
1/14/2025 11:12	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 11:13	43304	WATS_T2	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0
1/14/2025 11:13	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 11:13	60701	BREC_T1	1	2	1	0.1	0.35	0.25	-0.42	-0.07	4	4	0	2400	2400	0
1/14/2025 11:14	60701	BREC_T1	1	2	1	0.1	0.35	0.25	-0.21	-0.03	2	2	0	1200	1200	0
1/14/2025 11:16	11901	ETEX_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
1/14/2025 11:16	60701	BREC_T1	1	2	1	0.1	0.4	0.3	-0.21	-0.03	2	2	0	1200	1200	0
1/14/2025 11:20	13303	ORVI_T1	0	0	0	0	0	0	1.35	1.14	0	0	0	0	0	0
1/14/2025 11:20	43202	MVIL_T2	1	6	5	0.1	0.23	0.13	-0.47	-0.55	0	0	0	0	0	0
1/14/2025 11:22	13604	RICH_T2	0	0	0	0	0	0	0	0	2	1	-1	1500	600	-900
1/14/2025 11:26	67402	WAKE_T2	0	1	1	0	0.1	0.1	2.1	2.37	0	0	0	0	0	0
1/14/2025 11:28	67702	WERN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
1/14/2025 11:28	45501	DERR_T2	1	1	0	0.1	0.1	0	0.67	0.59	2	2	0	1800	1800	0
1/14/2025 11:29	61703	ELIZ_T1	3	27	24	0.37	0.28	-0.09	-1.68	-1.7	2	2	0	1800	1800	0
1/14/2025 11:29	61701	ELIZ_T1	1	3	2	5.6	2.33	-3.27	0	0	0	0	0	0	0	0
1/14/2025 11:29	42503	ALTA_T2	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
1/14/2025 11:29	67402	WAKE_T2	0	1	1	0	0.1	0.1	1.05	1.18	0	0	0	0	0	0
1/14/2025 11:30	61701	ELIZ_T1	3	3	0	2.13	2.33	0.2	1.5	1.59	0	0	0	0	0	0
1/14/2025 11:30	61703	ELIZ_T1	13	29	16	0.37	0.24	-0.13	-1.68	-1.7	2	2	0	1800	1800	0
1/14/2025 11:30	63501	HEID_TBK1-2	10	49	39	0.32	0.28	-0.04	0.45	0.29	2	2	0	1800	1800	0
1/14/2025 11:31	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.67	0.59	2	2	0	1800	1800	0
1/14/2025 11:32	61701	ELIZ_T1	3	3	0	2.13	2.33	0.2	0	0	0	0	0	0	0	0
1/14/2025 11:32	54506	ENOL_T2	0	0	0	0	0	0	0.29	0.41	1	1	0	600	600	0
1/14/2025 11:32	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
1/14/2025 11:32	61703	ELIZ_T1	13	29	16	0.37	0.24	-0.13	-0.84	-0.85	1	1	0	900	900	0
1/14/2025 11:33	63501	HEID_TBK1-2	10	49	39	0.32	0.28	-0.04	0.22	0.14	1	1	0	900	900	0
1/14/2025 11:33	61701	ELIZ_T1	3	3	0	2.13	2.33	0.2	0	0	0	0	0	0	0	0
1/14/2025 11:33	61703	ELIZ_T1	13	29	16	0.37	0.24	-0.13	0	0	0	0	0	0	0	0
1/14/2025 11:35	60504	NMAN_T2	2	4	2	0.55	0.55	0	0	0	0	0	0	0	0	0
1/14/2025 11:35	60501	NMAN_T2	23	33	10	0.2	0.22	0.02	0	0	0	0	0	0	0	0
1/14/2025 11:35	58102	NEKI_T1	2	1	-1	1	0.8	-0.2	-0.84	0.46	0	0	0	0	0	0
1/14/2025 11:35	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 11:35	58101	NEKI_T1	2	1	-1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/14/2025 11:36	60504	NMAN_T2	2	4	2	0.55	0.55	0	0	0	0	0	0	0	0	0
1/14/2025 11:36	60502	NMAN_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
1/14/2025 11:36	60501	NMAN_T2	23	33	10	0.2	0.22	0.02	0	0	0	0	0	0	0	0
1/14/2025 11:37	60504	NMAN_T2	2	4	2	0.55	0.55	0	0	0	0	0	0	0	0	0
1/14/2025 11:37	60501	NMAN_T2	23	33	10	0.2	0.22	0.02	0	0	0	0	0	0	0	0
1/14/2025 11:37	66203	SISP_T2	0	0	0	0	0	0	-0.97	-0.92	2	2	0	1800	1800	0
1/14/2025 11:37	60502	NMAN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
1/14/2025 11:38	66505	SMAN_T2	2	3	1	0.1	0.67	0.57	0	0	0	0	0	0	0	0
1/14/2025 11:38	66501	SMAN_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/14/2025 11:38	66504	SMAN_T2	2	3	1	0.45	0.73	0.28	0	0	0	0	0	0	0	0
1/14/2025 11:38	64101	REFR_T1	0	1	1	0	0.5	0.5	0.62	0.6	0	0	0	0	0	0
1/14/2025 11:38	66502	SMAN_T2	8	16	8	0.35	0.35	0	0	0	0	0	0	0	0	0
1/14/2025 11:39	66501	SMAN_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/14/2025 11:39	60504	NMAN_T2	2	4	2	0.55	0.55	0	0	0	0	0	0	0	0	0
1/14/2025 11:39	66504	SMAN_T2	2	3	1	0.45	0.73	0.28	0	0	0	0	0	0	0	0
1/14/2025 11:39	66505	SMAN_T2	2	3	1	0.1	0.67	0.57	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/14/2025 11:39	60502	NMAN_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
1/14/2025 11:39	60501	NMAN_T2	23	33	10	0.2	0.22	0.02	0	0	0	0	0	0	0	0
1/14/2025 11:39	66502	SMAN_T2	8	16	8	0.35	0.35	0	0.62	0.82	0	0	0	0	0	0
1/14/2025 11:41	66505	SMAN_T2	2	3	1	0.1	0.67	0.57	0	0	0	0	0	0	0	0
1/14/2025 11:41	66501	SMAN_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/14/2025 11:41	66502	SMAN_T2	8	16	8	0.35	0.35	0	0.62	0.82	0	0	0	0	0	0
1/14/2025 11:41	66504	SMAN_T2	2	3	1	0.45	0.73	0.28	0	0	0	0	0	0	0	0
1/14/2025 11:42	66501	SMAN_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/14/2025 11:42	66502	SMAN_T2	8	16	8	0.35	0.35	0	0.31	0.41	0	0	0	0	0	0
1/14/2025 11:42	45302	WBER_T2	0	0	0	0	0	0	0.87	0.89	0	0	0	0	0	0
1/14/2025 11:42	66504	SMAN_T2	2	3	1	0.45	0.73	0.28	0	0	0	0	0	0	0	0
1/14/2025 11:42	45303	WBER_T2	1	1	0	9.4	9.4	0	0	0	0	0	0	0	0	0
1/14/2025 11:42	66505	SMAN_T2	2	3	1	0.1	0.67	0.57	0	0	0	0	0	0	0	0
1/14/2025 11:43	66502	SMAN_T2	8	16	8	0.35	0.35	0	0.31	0.41	0	0	0	0	0	0
1/14/2025 11:43	66505	SMAN_T2	2	3	1	0.1	0.67	0.57	0	0	0	0	0	0	0	0
1/14/2025 11:43	66504	SMAN_T2	2	3	1	0.45	0.73	0.28	0	0	0	0	0	0	0	0
1/14/2025 11:43	66501	SMAN_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/14/2025 11:47	46802	HEPB_T1	7	20	13	0.4	0.28	-0.12	-1.17	-1.16	0	0	0	0	0	0
1/14/2025 11:47	66501	SMAN_T2	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
1/14/2025 11:47	66505	SMAN_T2	2	3	1	0.3	0.67	0.37	0	0	0	0	0	0	0	0
1/14/2025 11:47	66504	SMAN_T2	3	3	0	0.73	0.73	0	0	0	0	0	0	0	0	0
1/14/2025 11:47	66502	SMAN_T2	15	15	0	0.32	0.37	0.05	0.31	0.41	0	0	0	0	0	0
1/14/2025 11:50	58202	NEWV_T1	2	9	7	0.25	0.38	0.13	0	0.09	0	0	0	0	0	0
1/14/2025 11:50	58201	NEWV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 11:51	58201	NEWV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 11:51	58202	NEWV_T1	2	9	7	0.25	0.38	0.13	0.09	-0.08	0	0	0	0	0	0
1/14/2025 11:53	64802	MONE_T2	7	12	5	0.24	0.29	0.05	0	0	0	0	0	0	0	0
1/14/2025 11:54	67701	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 11:54	67702	WERN_T2	3	3	0	0.23	0.27	0.04	-0.64	-0.64	0	0	0	0	0	0
1/14/2025 11:55	67402	WAKE_T2	0	0	0	0	0	0	1.16	1.19	0	0	0	0	0	0
1/14/2025 11:56	18001	ZION_T1	3	3	0	6.37	6.3	-0.07	0	0	0	0	0	0	0	0
1/14/2025 11:58	67702	WERN_T2	3	3	0	0.23	0.27	0.04	-0.64	-0.64	0	0	0	0	0	0
1/14/2025 11:58	67701	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 12:00	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-0.99	1	1	0	600	600	0
1/14/2025 12:00	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 12:00	63801	HEMP_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
1/14/2025 12:00	63804	HEMP_T1	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
1/14/2025 12:00	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
1/14/2025 12:00	62105	ELAN_T1	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
1/14/2025 12:00	63802	HEMP_T1	0	0	0	0	0	0	0.27	0.18	0	0	0	0	0	0
1/14/2025 12:00	62106	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/14/2025 12:00	63803	HEMP_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/14/2025 12:01	61506	EPET_T2	0	1	1	0	0.1	0.1	-0.28	-0.28	1	1	0	900	900	0
1/14/2025 12:02	61506	EPET_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 12:02	61504	EPET_T2	0	0	0	0	0	0	-0.92	-0.93	0	0	0	0	0	0
1/14/2025 12:03	52402	GRPA_T2	21	6	-15	0.44	0.82	0.38	-0.86	-0.89	0	0	0	0	0	0
1/14/2025 12:03	52404	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/14/2025 12:03	52403	GRPA_T2	39	74	35	0.96	0.46	-0.5	0	0	0	0	0	0	0	0
1/14/2025 12:03	52401	GRPA_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
1/14/2025 12:04	52404	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/14/2025 12:04	17401	FOHI_T1	0	0	0	0	0	0	-1	-0.98	0	0	0	0	0	0
1/14/2025 12:04	52403	GRPA_T2	39	74	35	0.96	0.46	-0.5	-0.01	-0.08	0	0	0	0	0	0
1/14/2025 12:04	20601	GRWO_T2	2	1	-1	0.5	0	-0.5	0.47	0.38	0	0	0	0	0	0
1/14/2025 12:04	64904	MILL_T1	0	0	0	0	0	0	0.69	0.72	0	0	0	0	0	0
1/14/2025 12:04	52401	GRPA_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
1/14/2025 12:04	52402	GRPA_T2	21	6	-15	0.44	0.82	0.38	0	0	0	0	0	0	0	0
1/14/2025 12:05	64903	MILL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/14/2025 12:05	64902	MILL_T2	0	0	0	0	0	0	-0.67	0.33	1	0	-1	900	0	-900
1/14/2025 12:06	54701	NEBL_T1	5	5	0	0.56	0.56	0	0	0	1	1	0	600	600	0
1/14/2025 12:10	67702	WERN_T2	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0	0
1/14/2025 12:10	67701	WERN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/14/2025 12:10	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 12:10	67703	WERN_T2	0	0	0	0	0	0	-0.16	-0.14	0	0	0	0	0	0
1/14/2025 12:11	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 12:11	67402	WAKE_T2	0	0	0	0	0	0	1.19	1.2	0	0	0	0	0	0
1/14/2025 12:14	16102	BING_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
1/14/2025 12:14	16101	BING_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/14/2025 12:14	16103	BING_T2	0	1	1	0	0.2	0.2	-1.53	-1.53	1	1	0	900	900	0
1/14/2025 12:15	54601	SUMM_T2	4	4	0	0.3	0.5	0.2	-1.73	-1.78	1	1	0	900	900	0
1/14/2025 12:15	40702	FFLD_T1	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/14/2025 12:15	40701	FFLD_T1	24	25	1	0.17	0.24	0.07	0	0	0	0	0	0	0	0
1/14/2025 12:15	40703	FFLD_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/14/2025 12:16	40703	FFLD_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/14/2025 12:16	40101	HUNT_T2	424	437	13	0.94	1.23	0.29	-1.3	-1.3	0	0	0	0	0	0
1/14/2025 12:16	62106	ELAN_T1	1	1	0	0.2	0.2	0	0.99	1.08	0	0	0	0	0	0
1/14/2025 12:16	40702	FFLD_T1	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/14/2025 12:16	40701	FFLD_T1	24	25	1	0.17	0.24	0.07	0	0	0	0	0	0	0	0
1/14/2025 12:16	62102	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/14/2025 12:17	40702	FFLD_T1	2	1	-1	0.1	0.2	0.1	-0.65	-0.54	0	0	0	0	0	0
1/14/2025 12:17	40701	FFLD_T1	24	25	1	0.17	0.24	0.07	0	0	0	0	0	0	0	0
1/14/2025 12:17	40703	FFLD_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/14/2025 12:18	13503	MCMI_T2	0	0	0	0	0	0	0.26	0.3	0	0	0	0	0	0
1/14/2025 12:19	52004	LING_T2	3	3	0	3.93	3.9	-0.03	0	0	0	0	0	0	0	0
1/14/2025 12:19	52402	GRPA_T2	6	8	2	0.77	0.75	-0.02	0	0	0	0	0	0	0	0
1/14/2025 12:19	52403	GRPA_T2	26	97	71	0.8	0.43	-0.37	-0.08	-0.11	0	0	0	0	0	0
1/14/2025 12:19	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/14/2025 12:20	40101	HUNT_T2	424	437	13	0.94	1.23	0.29	-3.89	-3.9	0	0	0	0	0	0
1/14/2025 12:23	44904	SCOT_T1	0	0	0	0	0	0	0.98	0.97	0	0	0	0	0	0
1/14/2025 12:25	60701	BREC_T1	2	2	0	0.3	0.35	0.05	-0.26	-0.32	2	2	0	1200	1200	0
1/14/2025 12:26	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 12:33	63602	LETO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/14/2025 12:33	63601	LETO_T1	3	3	0	0.13	0.17	0.04	0.84	0.79	0	0	0	0	0	0
1/14/2025 12:35	63601	LETO_T1	3	3	0	0.13	0.17	0.04	0.84	0.79	0	0	0	0	0	0
1/14/2025 12:35	47104	MARL_T1	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
1/14/2025 12:35	63602	LETO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/14/2025 12:35	47101	MARL_T1	3	15	12	0.43	0.43	0	0	0	0	0	0	0	0	0
1/14/2025 12:37	47101	MARL_T1	3	15	12	0.43	0.43	0	-0.62	-0.55	0	0	0	0	0	0
1/14/2025 12:42	66505	SMAN_T2	4	3	-1	0.85	0.57	-0.28	0	0	0	0	0	0	0	0
1/14/2025 12:42	66502	SMAN_T2	16	10	-6	0.36	0.28	-0.08	0.4	0.33	0	0	0	0	0	0
1/14/2025 12:42	67402	WAKE_T2	0	1	1	0	0.1	0.1	1.17	0.53	0	1	1	0	600	600
1/14/2025 12:42	66501	SMAN_T2	2	2	0	0.65	0.15	-0.5	0	0	0	0	0	0	0	0
1/14/2025 12:42	66504	SMAN_T2	4	2	-2	0.65	0.85	0.2	0	0	0	0	0	0	0	0
1/14/2025 12:48	41202	KENM_T2	1	1	0	0.2	0.4	0.2	-0.42	-0.43	0	0	0	0	0	0
1/14/2025 12:49	63804	HEMP_T1	1	2	1	7	6.9	-0.1	0	0	0	0	0	0	0	0
1/14/2025 12:49	63803	HEMP_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/14/2025 12:49	63802	HEMP_T1	0	1	1	0	0	0	0.23	0.21	0	0	0	0	0	0
1/14/2025 12:49	63801	HEMP_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
1/14/2025 12:50	51201	MTON_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/14/2025 12:51	64904	MILL_T1	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
1/14/2025 12:55	57201	ROSS_T1	1	5	4	0.2	0.14	-0.06	-0.67	-0.68	0	0	0	0	0	0
1/14/2025 12:55	57205	ROSS_T1	1	2	1	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
1/14/2025 12:56	66505	SMAN_T2	3	3	0	0.57	0.43	-0.14	0	0	0	0	0	0	0	0
1/14/2025 12:56	66504	SMAN_T2	2	1	-1	0.85	0.1	-0.75	0	0	0	0	0	0	0	0
1/14/2025 12:56	66502	SMAN_T2	10	2	-8	0.28	0.15	-0.13	0.33	0.37	0	0	0	0	0	0
1/14/2025 12:56	66501	SMAN_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
1/14/2025 12:57	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/14/2025 13:00	57205	ROSS_T1	2	1	-1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
1/14/2025 13:00	57201	ROSS_T1	5	0	-5	0.14	0	-0.14	-0.67	-0.68	0	0	0	0	0	0
1/14/2025 13:03	66505	SMAN_T2	3	2	-1	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
1/14/2025 13:03	66504	SMAN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/14/2025 13:03	66501	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
1/14/2025 13:03	66502	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
1/14/2025 13:07	54203	PENN_T1	19	19	0	1.13	1.17	0.04	0	0	0	0	0	0	0	0
1/14/2025 13:07	54201	PENN_T1	10	10	0	0.87	0.82	-0.05	0.86	0.89	0	0	0	0	0	0
1/14/2025 13:08	54203	PENN_T1	19	19	0	1.13	1.17	0.04	0	0.02	0	0	0	0	0	0
1/14/2025 13:08	54201	PENN_T1	10	10	0	0.87	0.82	-0.05	0	0	0	0	0	0	0	0
1/14/2025 13:08	13702	SCHN_T1	0	0	0	0	0	0	1.12	1.14	0	0	0	0	0	0
1/14/2025 13:19	43304	WATS_T2	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
1/14/2025 13:19	43301	WATS_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/14/2025 13:19	41801	GOCI_T2	3	3	0	0.33	0.37	0.04	0	0	0	0	0	0	0	0
1/14/2025 13:22	65205	PRIN_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
1/14/2025 13:26	13704	SCHN_T2	0	0	0	0	0	0	-0.78	-0.26	0	0	0	0	0	0
1/14/2025 13:30	53501	EVIL_T2	1	2	1	0.5	0.2	-0.3	-0.75	-0.81	1	1	0	600	600	0
1/14/2025 13:30	53502	EVIL_T2	1	11	10	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/14/2025 13:38	54603	SUMM_T2	0	0	0	0	0	0	-0.69	-0.64	2	2	0	1800	1800	0
1/14/2025 13:38	40101	HUNT_T2	433	449	16	1.27	1.22	-0.05	0	0	0	0	0	0	0	0
1/14/2025 13:38	54601	SUMM_T2	5	4	-1	0.44	0.25	-0.19	0	0	0	0	0	0	0	0
1/14/2025 13:40	43304	WATS_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
1/14/2025 13:40	43301	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/14/2025 13:56	13702	SCHN_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
1/14/2025 13:59	61001	DONV_T1	1	0	-1	0.4	0	-0.4	0.04	0.01	0	0	0	0	0	0
1/14/2025 14:01	55507	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 14:01	55501	HERS_T1	37	0	-37	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/14/2025 14:23	43202	MVIL_T2	1	2	1	0.2	0.3	0.1	-0.52	-0.55	0	0	0	0	0	0
1/14/2025 14:24	43202	MVIL_T2	1	2	1	0.2	0.3	0.1	-0.52	-0.55	0	0	0	0	0	0
1/14/2025 14:26	16302	ALPA_T2	1	1	0	0.2	0.1	-0.1	-0.64	-0.55	0	0	0	0	0	0
1/14/2025 14:26	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 14:27	51202	MTON_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
1/14/2025 14:28	45501	DERR_T2	2	0	-2	0.25	0	-0.25	0.69	0.61	2	2	0	1800	1800	0
1/14/2025 14:35	64202	KINZ_T1	3	2	-1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
1/14/2025 14:35	64201	KINZ_T1	0	0	0	0	0	0	-0.28	-0.33	3	3	0	1500	1500	0
1/14/2025 14:35	64204	KINZ_T1	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/14/2025 14:38	46501	LOHA_T1	1	1	0	0.4	0.7	0.3	-0.69	-0.64	1	1	0	1200	1200	0
1/14/2025 14:38	46506	LOHA_T1	3	3	0	3.47	3.8	0.33	0	0	0	0	0	0	0	0
1/14/2025 14:41	59101	WALK_T2	0	1	1	0	0	0	1.55	1.5	1	1	0	600	600	0
1/14/2025 14:44	59101	WALK_T2	0	1	1	0	0	0	1.55	1.5	1	1	0	600	600	0
1/14/2025 14:45	17802	GILB_T1	0	1	1	0	0	0	0.33	0.32	0	0	0	0	0	0
1/14/2025 14:51	63601	LETO_T1	0	0	0	0	0	0	1.14	1.14	1	1	0	900	900	0
1/14/2025 14:53	59101	WALK_T2	0	1	1	0	0.1	0.1	1.5	1.71	1	1	0	600	600	0
1/14/2025 14:53	15603	NSTR_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
1/14/2025 14:58	60104	COCA_T2	0	0	0	0	0	0	-0.57	-0.59	1	1	0	600	600	0
1/14/2025 15:01	22002	BOHE_T1	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
1/14/2025 15:06	58402	MORO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/14/2025 15:06	58401	MORO_T1	0	0	0	0	0	0	-0.92	-0.88	1	1	0	600	600	0
1/14/2025 15:09	58402	MORO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 15:09	58401	MORO_T1	0	0	0	0	0	0	-0.92	-0.88	1	1	0	600	600	0
1/14/2025 15:10	13702	SCHN_T1	0	0	0	0	0	0	0.56	0.62	0	0	0	0	0	0
1/14/2025 15:12	46203	DANV_T2	1	2	1	1.1	2.1	1	-0.27	-0.37	0	0	0	0	0	0
1/14/2025 15:33	23401	HONE_T2	20	3	-17	0.4	0.15	-0.25	0.22	0.11	0	0	0	0	0	0
1/14/2025 15:34	23401	HONE_T2	20	3	-17	0.4	0.15	-0.25	0.22	0.11	0	0	0	0	0	0
1/14/2025 15:36	55507	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 15:36	55501	HERS_T1	0	52	52	0	0.13	0.13	0	0	0	0	0	0	0	0
1/14/2025 15:49	13503	MCMI_T2	0	1	1	0	0	0	0.3	0.36	0	0	0	0	0	0
1/14/2025 15:55	63501	HEID_TBK1-2	56	16	-40	0.34	0.22	-0.12	0	0	1	1	0	900	900	0
1/14/2025 16:10	13704	SCHN_T2	0	0	0	0	0	0	-0.06	0.05	0	0	0	0	0	0
1/14/2025 16:17	64701	LITI_T1	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
1/14/2025 16:30	29402	BELT_T1	1	2	1	5.2	5.6	0.4	0	0	0	0	0	0	0	0
1/14/2025 16:30	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/14/2025 17:53	45501	DERR_T2	13	9	-4	1.17	1.2	0.03	0.51	0.5	2	2	0	1800	1800	0
1/14/2025 17:53	45502	DERR_T2	9	6	-3	0.54	0.35	-0.19	0	0	0	0	0	0	0	0
1/14/2025 18:22	52502	PROG_T2	0	0	0	0	0	0	-0.25	-0.28	1	1	0	900	900	0
1/14/2025 18:48	45501	DERR_T2	5	3	-2	1.14	0.1	-1.04	0.48	0.48	2	2	0	1800	1800	0
1/14/2025 18:48	48901	FOSP_T2	5	6	1	0.18	0.23	0.05	-0.36	-0.34	1	1	0	600	600	0
1/14/2025 18:48	48902	FOSP_T2	3	5	2	0.17	0.26	0.09	0	0	0	0	0	0	0	0
1/14/2025 18:48	45502	DERR_T2	4	3	-1	0.4	0.67	0.27	0	0	0	0	0	0	0	0
1/14/2025 18:50	43201	MVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/14/2025 18:50	43202	MVIL_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
1/14/2025 18:50	10805	CHHI_T2	11	10	-1	1.87	1.91	0.04	-1.02	-1.02	1	1	0	600	600	0
1/14/2025 18:52	46002	BERW_T2	0	0	0	0	0	0	-1.06	-1.05	1	1	0	900	900	0
1/14/2025 18:52	17802	GILB_T1	0	0	0	0	0	0	0.27	0.35	0	0	0	0	0	0
1/14/2025 18:52	45302	WBER_T2	29	31	2	0.44	0.45	0.01	0.73	0.74	0	0	0	0	0	0
1/14/2025 18:52	46004	BERW_T2	46	14	-32	0.85	0.89	0.04	0	0	0	0	0	0	0	0
1/14/2025 18:52	43202	MVIL_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
1/14/2025 18:52	43201	MVIL_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/14/2025 18:54	43304	WATS_T2	9	15	6	0.24	0.18	-0.06	0	0	0	0	0	0	0	0
1/14/2025 18:54	43301	WATS_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 18:54	49803	UNIV_T1	1	1	0	6.9	6.8	-0.1	-0.81	-0.86	0	0	0	0	0	0
1/14/2025 18:55	48901	FOSP_T2	5	6	1	0.18	0.23	0.05	-0.34	-0.34	1	1	0	600	600	0
1/14/2025 18:55	66505	SMAN_T2	2	3	1	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
1/14/2025 18:55	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
1/14/2025 18:55	41202	KENM_T2	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
1/14/2025 18:55	15601	NSTR_T2	13	15	2	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
1/14/2025 18:55	47203	FAXO_T2	1	1	0	1.7	2	0.3	-0.98	-0.97	0	0	0	0	0	0
1/14/2025 18:55	15603	NSTR_T2	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
1/14/2025 18:55	48902	FOSP_T2	3	5	2	0.17	0.26	0.09	0	0	0	0	0	0	0	0
1/14/2025 18:56	13503	MCMI_T2	0	4	4	0	0.15	0.15	0.47	-0.41	0	0	0	0	0	0
1/14/2025 18:56	40201	BEGA_T2	5	50	45	0.38	0.41	0.03	0	0	0	0	0	0	0	0
1/14/2025 18:56	63501	HEID_TBK1-2	8	67	59	0.18	0.38	0.2	0	0	0	0	0	0	0	0
1/14/2025 18:56	61701	ELIZ_T1	1	1	0	6.1	6.2	0.1	0.43	0.5	0	0	0	0	0	0
1/14/2025 18:56	13704	SCHN_T2	0	1	1	0	0	0	-0.64	-0.61	0	0	0	0	0	0
1/14/2025 18:57	44902	SCOT_T2	1	91	90	0	0.15	0.15	0	0	0	0	0	0	0	0
1/14/2025 18:57	17802	GILB_T1	0	0	0	0	0	0	0.27	0.35	0	0	0	0	0	0
1/14/2025 18:57	46204	DANV_T2	6	13	7	0.33	0	-0.33	0	0	0	0	0	0	0	0
1/14/2025 18:57	46203	DANV_T2	15	16	1	0.83	0.97	0.14	0	0	0	0	0	0	0	0
1/14/2025 18:57	44901	SCOT_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
1/14/2025 18:57	45502	DERR_T2	4	3	-1	0.4	0.67	0.27	0	0	0	0	0	0	0	0
1/14/2025 18:57	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
1/14/2025 18:57	22003	BOHE_T1	0	11	11	0	0.27	0.27	0	0	0	0	0	0	0	0
1/14/2025 18:57	66505	SMAN_T2	2	3	1	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
1/14/2025 18:57	22002	BOHE_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
1/14/2025 18:57	48902	FOSP_T2	3	5	2	0.17	0.26	0.09	0.1	0.11	0	0	0	0	0	0
1/14/2025 18:57	45501	DERR_T2	5	3	-2	1.14	0.1	-1.04	0.97	1.34	4	4	0	3600	3600	0
1/14/2025 18:57	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 18:57	46206	DANV_T2	8	2	-6	0.44	0	-0.44	1.7	1.6	2	2	0	2100	2100	0
1/14/2025 18:57	48901	FOSP_T2	5	6	1	0.18	0.23	0.05	0	0	0	0	0	0	0	0
1/14/2025 18:57	44905	SCOT_T1	48	27	-21	0.95	0.1	-0.85	0	0	0	0	0	0	0	0
1/14/2025 18:57	44904	SCOT_T1	0	0	0	0	0	0	0.82	0.78	0	0	0	0	0	0
1/14/2025 18:58	10801	CHHI_T1	4	2	-2	0.28	0	-0.28	-1.94	-1.91	3	3	0	2100	2100	0
1/14/2025 18:58	14801	TREI_T2	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
1/14/2025 18:58	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/14/2025 18:58	60502	NMAN_T2	0	0	0	0	0	0	-0.12	-0.09	0	0	0	0	0	0
1/14/2025 18:58	14802	TREI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 18:58	16302	ALPA_T2	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
1/14/2025 18:58	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
1/14/2025 18:58	45501	DERR_T2	5	3	-2	1.14	0.1	-1.04	0.48	0.67	2	2	0	1800	1800	0
1/14/2025 18:58	45502	DERR_T2	4	3	-1	0.4	0.67	0.27	0	0	0	0	0	0	0	0
1/14/2025 18:58	25401	PENN_T1	18	18	0	0.97	1.31	0.34	0	0	0	0	0	0	0	0
1/14/2025 18:58	29402	BELT_T1	1	1	0	4.6	4.8	0.2	0	0	0	0	0	0	0	0
1/14/2025 18:58	60501	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 18:58	66505	SMAN_T2	2	3	1	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
1/14/2025 18:58	54201	PENN_T1	6	8	2	0.38	0.46	0.08	0.86	0.85	0	0	0	0	0	0
1/14/2025 18:58	63501	HEID_TBK1-2	8	67	59	0.18	0.38	0.2	0	0	1	1	0	900	900	0
1/14/2025 18:59	48901	FOSP_T2	5	6	1	0.18	0.23	0.05	0	0	0	0	0	0	0	0
1/14/2025 18:59	63501	HEID_TBK1-2	8	67	59	0.18	0.38	0.2	0	0	1	1	0	900	900	0
1/14/2025 18:59	67703	WERN_T2	0	0	0	0	0	0	-0.11	-0.13	1	1	0	900	900	0
1/14/2025 18:59	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 18:59	40802	EXCH_T2	0	0	0	0	0	0	-0.82	-0.8	0	0	0	0	0	0
1/14/2025 18:59	48902	FOSP_T2	3	5	2	0.17	0.26	0.09	0.1	0.11	0	0	0	0	0	0
1/14/2025 19:00	66203	SISP_T2	1	1	0	2.7	0	-2.7	-1.34	-1.35	2	2	0	1800	1800	0
1/14/2025 19:00	16102	BING_T2	0	1	1	0	0.1	0.1	0	-0.02	0	0	0	0	0	0
1/14/2025 19:00	46206	DANV_T2	2	0	-2	0.1	0	-0.1	1.7	1.6	2	2	0	2100	2100	0
1/14/2025 19:00	40201	BEGA_T2	38	51	13	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
1/14/2025 19:00	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:00	46203	DANV_T2	15	15	0	0.88	0.92	0.04	-1.14	-1.14	0	0	0	0	0	0
1/14/2025 19:00	40101	HUNT_T2	624	572	-52	2.66	2.53	-0.13	-2.85	-2.93	0	0	0	0	0	0
1/14/2025 19:00	42503	ALTA_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
1/14/2025 19:00	42504	ALTA_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
1/14/2025 19:00	44502	HAMI_T2	1	1	0	2	2.2	0.2	0.03	0.03	0	0	0	0	0	0
1/14/2025 19:00	64902	MILL_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
1/14/2025 19:00	16103	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/14/2025 19:00	17401	FOHI_T1	0	0	0	0	0	0	-0.97	-0.94	0	0	0	0	0	0
1/14/2025 19:00	16101	BING_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/14/2025 19:00	11901	ETEX_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
1/14/2025 19:00	10801	CHHI_T1	1	4	3	0.2	0.2	0	-1.94	-1.91	3	3	0	2100	2100	0
1/14/2025 19:00	46204	DANV_T2	12	3	-9	0.31	0	-0.31	0	0	0	0	0	0	0	0
1/14/2025 19:01	63501	HEID_TBK1-2	26	67	41	0.19	0.38	0.19	0	0	1	1	0	900	900	0
1/14/2025 19:01	46506	LOHA_T1	4	2	-2	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
1/14/2025 19:01	22602	KIMB_T1	0	0	0	0	0	0	0.17	0.29	0	0	0	0	0	0
1/14/2025 19:01	46502	LOHA_T1	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/14/2025 19:01	61506	EPET_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
1/14/2025 19:01	46501	LOHA_T1	31	44	13	0.86	0.65	-0.21	-0.74	-0.65	1	1	0	1200	1200	0
1/14/2025 19:01	61701	ELIZ_T1	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
1/14/2025 19:01	22601	KIMB_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:01	61703	ELIZ_T1	0	0	0	0	0	0	-0.81	-0.78	1	1	0	900	900	0
1/14/2025 19:02	13604	RICH_T2	0	0	0	0	0	0	-1.9	-1.91	2	2	0	1500	1500	0
1/14/2025 19:02	66505	SMAN_T2	3	3	0	0.27	0.53	0.26	0	0	0	0	0	0	0	0
1/14/2025 19:02	44902	SCOT_T2	0	100	100	0	0.15	0.15	-0.82	-0.85	0	0	0	0	0	0
1/14/2025 19:02	53501	EVIL_T2	2	2	0	0.3	0.3	0	-1.86	-2.11	3	3	0	1800	1800	0
1/14/2025 19:02	55101	WERT_T1	0	0	0	0	0	0	-1.61	-1.69	2	2	0	1500	1500	0
1/14/2025 19:02	53502	EVIL_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/14/2025 19:02	13606	RICH_T2	1	1	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
1/14/2025 19:02	16103	BING_T2	0	1	1	0	0.2	0.2	-2.03	-2.02	2	2	0	1500	1500	0
1/14/2025 19:02	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:02	11104	EGYP_T1	1	12	11	0.2	0.2	0	0.6	0.64	0	0	0	0	0	0
1/14/2025 19:02	14801	TREI_T2	0	0	0	0	0	0	0.87	0.87	0	0	0	0	0	0
1/14/2025 19:02	60501	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 19:02	14802	TREI_T2	0	1	1	0	0	0	0.76	0.76	0	0	0	0	0	0
1/14/2025 19:02	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 19:02	63601	LETO_T1	0	0	0	0	0	0	1	1	1	1	0	900	900	0
1/14/2025 19:02	13503	MCMI_T2	0	4	4	0	0.15	0.15	0.47	-0.41	0	0	0	0	0	0
1/14/2025 19:02	43301	WATS_T2	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/14/2025 19:02	16101	BING_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/14/2025 19:02	55105	WERT_T1	1	2	1	0.8	0.95	0.15	0	0	0	0	0	0	0	0
1/14/2025 19:02	29402	BELT_T1	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
1/14/2025 19:02	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/14/2025 19:02	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
1/14/2025 19:02	43304	WATS_T2	5	15	10	0.24	0.2	-0.04	0.13	0.09	0	0	0	0	0	0
1/14/2025 19:02	13303	ORVI_T1	0	0	0	0	0	0	0.83	0.85	0	0	0	0	0	0
1/14/2025 19:03	44902	SCOT_T2	0	100	100	0	0.15	0.15	0	0	0	0	0	0	0	0
1/14/2025 19:03	47101	MARL_T1	213	202	-11	1.21	1.08	-0.13	-0.33	-0.25	0	0	0	0	0	0
1/14/2025 19:03	46802	HEPB_T1	1	1	0	0.7	0.8	0.1	-1.2	-1.19	0	0	0	0	0	0
1/14/2025 19:03	40902	JESH_T1	0	0	0	0	0	0	-1.09	-1.12	1	1	0	600	600	0
1/14/2025 19:03	64203	KINZ_T1	8	8	0	1.33	1.33	0	0	0	0	0	0	0	0	0
1/14/2025 19:03	48901	FOSP_T2	5	6	1	0.16	0.23	0.07	0	0	0	0	0	0	0	0
1/14/2025 19:03	61504	EPET_T2	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
1/14/2025 19:03	40901	JESH_T1	1	1	0	1.1	0.2	-0.9	0	0	0	0	0	0	0	0
1/14/2025 19:03	64204	KINZ_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/14/2025 19:03	40201	BEGA_T2	38	51	13	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
1/14/2025 19:03	40702	FFLD_T1	0	0	0	0	0	0	-0.05	-0.14	0	0	0	0	0	0
1/14/2025 19:03	54506	ENOL_T2	0	0	0	0	0	0	0.43	0.47	1	1	0	600	600	0
1/14/2025 19:03	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:03	48902	FOSP_T2	3	5	2	0.17	0.26	0.09	0.1	0.11	0	0	0	0	0	0
1/14/2025 19:03	67702	WERN_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
1/14/2025 19:03	64201	KINZ_T1	0	4	4	0	0.4	0.4	-0.62	-0.64	3	3	0	1500	1500	0
1/14/2025 19:03	44901	SCOT_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
1/14/2025 19:03	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 19:03	63601	LETO_T1	0	0	0	0	0	0	1	1	1	1	0	900	900	0
1/14/2025 19:03	60501	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 19:03	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:04	59101	WALK_T2	0	0	0	0	0	0	0.57	0.64	2	2	0	1200	1200	0
1/14/2025 19:04	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
1/14/2025 19:04	45801	HEGI_T1	0	0	0	0	0	0	-0.12	-0.08	1	1	0	900	900	0
1/14/2025 19:04	46501	LOHA_T1	31	44	13	0.86	0.65	-0.21	0	0	0	0	0	0	0	0
1/14/2025 19:04	46502	LOHA_T1	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/14/2025 19:04	11104	EGYP_T1	1	12	11	0.2	0.2	0	0.6	0.64	0	0	0	0	0	0
1/14/2025 19:04	46506	LOHA_T1	4	2	-2	0.65	0.55	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/14/2025 19:04	40101	HUNT_T2	624	572	-52	2.66	2.53	-0.13	0	0	0	0	0	0	0	0
1/14/2025 19:04	64101	REFR_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
1/14/2025 19:04	15103	UPHA_T2	0	0	0	0	0	0	0.55	0.59	0	0	0	0	0	0
1/14/2025 19:04	61103	BERK_T5	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
1/14/2025 19:04	58402	MORO_T1	2	1	-1	1.1	0.4	-0.7	0.04	-0.05	3	3	0	1950	1950	0
1/14/2025 19:04	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 19:04	44801	EDAN_T2	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
1/14/2025 19:04	67702	WERN_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
1/14/2025 19:04	16103	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/14/2025 19:04	10801	CHHI_T1	1	4	3	0.2	0.2	0	-1.94	-1.91	3	3	0	2100	2100	0
1/14/2025 19:04	16101	BING_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/14/2025 19:04	13702	SCHN_T1	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
1/14/2025 19:04	23401	HONE_T2	0	1	1	0	0	0	-0.08	-0.09	0	0	0	0	0	0
1/14/2025 19:05	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:05	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
1/14/2025 19:05	62105	ELAN_T1	0	5	5	0	0.1	0.1	0.58	0.6	0	0	0	0	0	0
1/14/2025 19:05	60502	NMAN_T2	0	0	0	0	0	0	-0.12	-0.09	0	0	0	0	0	0
1/14/2025 19:05	60501	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 19:05	60104	COCA_T2	0	0	0	0	0	0	-0.53	-0.53	1	1	0	600	600	0
1/14/2025 19:05	55002	NEWP_T1	2	2	0	0.5	0.95	0.45	-0.14	-0.15	0	0	0	0	0	0
1/14/2025 19:05	48901	FOSP_T2	5	6	1	0.16	0.23	0.07	-0.34	-0.34	1	1	0	600	600	0
1/14/2025 19:05	20601	GRWO_T2	9	10	1	1.14	1.93	0.79	0	0	0	0	0	0	0	0
1/14/2025 19:05	63804	HEMP_T1	8	8	0	1.08	1.44	0.36	0	0	0	0	0	0	0	0
1/14/2025 19:05	54201	PENN_T1	6	8	2	0.3	0.49	0.19	0	0	0	0	0	0	0	0
1/14/2025 19:05	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 19:05	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:05	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:05	40901	JESH_T1	1	1	0	1.1	0.2	-0.9	0	0	0	0	0	0	0	0
1/14/2025 19:05	20603	GRWO_T2	9	20	11	0.21	0.24	0.03	-0.39	-0.42	1	1	0	900	900	0
1/14/2025 19:05	57702	PAXT_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
1/14/2025 19:05	54203	PENN_T1	18	18	0	0.86	1.31	0.45	-0.66	-0.63	1	1	0	600	600	0
1/14/2025 19:05	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:05	40701	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:05	51202	MTON_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:05	48902	FOSP_T2	3	5	2	0.17	0.26	0.09	0.1	0.11	0	0	0	0	0	0
1/14/2025 19:05	63501	HEID_TBK1-2	26	67	41	0.19	0.38	0.19	0	0	1	1	0	900	900	0
1/14/2025 19:06	54601	SUMM_T2	0	0	0	0	0	0	-1.59	-1.62	2	2	0	2100	2100	0
1/14/2025 19:06	65205	PRIN_T1	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
1/14/2025 19:06	22602	KIMB_T1	0	0	0	0	0	0	0.29	0.22	0	0	0	0	0	0
1/14/2025 19:06	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:06	55002	NEWP_T1	2	2	0	0.5	0.95	0.45	-0.15	-0.15	0	0	0	0	0	0
1/14/2025 19:06	48902	FOSP_T2	3	5	2	0.17	0.26	0.09	0.1	0.11	0	0	0	0	0	0
1/14/2025 19:06	56501	ROCK_T2	1	1	0	1.6	1.6	0	-0.74	-0.75	0	0	0	0	0	0
1/14/2025 19:06	61701	ELIZ_T1	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
1/14/2025 19:06	61703	ELIZ_T1	0	0	0	0	0	0	-0.81	-0.78	1	1	0	900	900	0
1/14/2025 19:06	22601	KIMB_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:06	48901	FOSP_T2	5	6	1	0.16	0.23	0.07	-0.34	-0.34	1	1	0	600	600	0
1/14/2025 19:06	49804	UNIV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:06	49803	UNIV_T1	1	1	0	7.5	6.6	-0.9	-0.81	-0.86	0	0	0	0	0	0
1/14/2025 19:06	65202	PRIN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/14/2025 19:06	13702	SCHN_T1	0	0	0	0	0	0	0.8	0.77	0	0	0	0	0	0
1/14/2025 19:07	51202	MTON_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
1/14/2025 19:07	65702	RVIL_T2	0	0	0	0	0	0	-1.47	-1.47	1	1	0	600	600	0
1/14/2025 19:07	60501	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 19:07	43201	MVIL_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
1/14/2025 19:07	43301	WATS_T2	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/14/2025 19:07	55101	WERT_T1	0	0	0	0	0	0	-1.69	-1.67	2	2	0	1500	1500	0
1/14/2025 19:07	66505	SMAN_T2	3	3	0	0.27	0.53	0.26	0	0	0	0	0	0	0	0
1/14/2025 19:07	53502	EVIL_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/14/2025 19:07	43202	MVIL_T2	0	0	0	0	0	0	-0.58	-0.54	0	0	0	0	0	0
1/14/2025 19:07	43304	WATS_T2	5	15	10	0.24	0.2	-0.04	0.04	0.08	0	0	0	0	0	0
1/14/2025 19:07	60502	NMAN_T2	0	0	0	0	0	0	-0.09	-0.15	0	0	0	0	0	0
1/14/2025 19:07	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:07	66502	SMAN_T2	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
1/14/2025 19:07	13501	MCMI_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/14/2025 19:07	57201	ROSS_T1	0	0	0	0	0	0	-0.66	-0.46	0	0	0	0	0	0
1/14/2025 19:07	63501	HEID_TBK1-2	26	67	41	0.19	0.38	0.19	0	0	1	1	0	900	900	0
1/14/2025 19:07	53501	EVIL_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/14/2025 19:07	64305	LINC_T1	0	0	0	0	0	0	-0.55	-0.6	0	0	0	0	0	0
1/14/2025 19:07	55105	WERT_T1	1	2	1	0.8	0.95	0.15	0	0	0	0	0	0	0	0
1/14/2025 19:07	52502	PROG_T2	0	0	0	0	0	0	-0.28	-0.28	1	1	0	900	900	0
1/14/2025 19:07	51201	MTON_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:08	40201	BEGA_T2	38	51	13	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
1/14/2025 19:08	46204	DANV_T2	12	3	-9	0.31	0	-0.31	0	0	0	0	0	0	0	0
1/14/2025 19:08	53501	EVIL_T2	2	2	0	0.3	0.3	0	-0.7	-0.72	1	1	0	600	600	0
1/14/2025 19:08	66502	SMAN_T2	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
1/14/2025 19:08	40802	EXCH_T2	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
1/14/2025 19:08	46206	DANV_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/14/2025 19:08	44905	SCOT_T1	2	27	25	0.1	0.29	0.19	0	0	0	0	0	0	0	0
1/14/2025 19:08	60701	BREC_T1	3	2	-1	0.3	0.1	-0.2	-0.3	-0.27	1	1	0	600	600	0
1/14/2025 19:08	53502	EVIL_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/14/2025 19:08	46203	DANV_T2	15	15	0	0.88	0.92	0.04	-1.14	-1.19	0	0	0	0	0	0
1/14/2025 19:08	51202	MTON_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:08	66505	SMAN_T2	3	3	0	0.27	0.53	0.26	0	0	0	0	0	0	0	0
1/14/2025 19:08	59101	WALK_T2	0	0	0	0	0	0	0.64	0.29	2	2	0	1200	1200	0
1/14/2025 19:08	44902	SCOT_T2	0	100	100	0	0.15	0.15	-0.85	-0.79	0	0	0	0	0	0
1/14/2025 19:08	61701	ELIZ_T1	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
1/14/2025 19:08	65503	MOJO_T2	0	0	0	0	0	0	-0.34	-0.41	0	0	0	0	0	0
1/14/2025 19:08	61703	ELIZ_T1	0	0	0	0	0	0	-0.78	-0.78	1	1	0	900	900	0
1/14/2025 19:08	54603	SUMM_T2	0	0	0	0	0	0	-0.29	-0.31	1	1	0	900	900	0
1/14/2025 19:08	13503	MCMI_T2	0	4	4	0	0.15	0.15	-0.41	-0.43	0	0	0	0	0	0
1/14/2025 19:09	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:09	52401	GRPA_T2	16	14	-2	0.42	0.33	-0.09	0	0	0	0	0	0	0	0
1/14/2025 19:09	58402	MORO_T1	2	1	-1	1.1	0.4	-0.7	-0.05	-0.04	3	3	0	1950	1950	0
1/14/2025 19:09	47104	MARL_T1	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
1/14/2025 19:09	23401	HONE_T2	0	1	1	0	0	0	-0.09	-0.1	0	0	0	0	0	0
1/14/2025 19:09	51204	MTON_T2	0	0	0	0	0	0	-0.34	-0.36	1	1	0	600	600	0
1/14/2025 19:09	20603	GRWO_T2	9	20	11	0.21	0.24	0.03	0	0	0	0	0	0	0	0
1/14/2025 19:09	20601	GRWO_T2	9	10	1	1.14	1.93	0.79	0.07	0.09	0	0	0	0	0	0
1/14/2025 19:09	47101	MARL_T1	213	202	-11	1.21	1.08	-0.13	0	0	0	0	0	0	0	0
1/14/2025 19:09	52403	GRPA_T2	15	16	1	0.73	0.66	-0.07	0	0	0	0	0	0	0	0
1/14/2025 19:09	49804	UNIV_T1	0	1	1	0	0	0	0.66	0.7	0	0	0	0	0	0
1/14/2025 19:09	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:09	66505	SMAN_T2	3	3	0	0.27	0.53	0.26	0	0	0	0	0	0	0	0
1/14/2025 19:09	53502	EVIL_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/14/2025 19:09	61001	DONV_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
1/14/2025 19:09	66503	SMAN_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
1/14/2025 19:09	43301	WATS_T2	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/14/2025 19:09	52402	GRPA_T2	5	7	2	0.96	0.83	-0.13	-0.81	-0.82	0	0	0	0	0	0
1/14/2025 19:09	58102	NEKI_T1	1	1	0	0.3	0.6	0.3	0.35	0.37	0	0	0	0	0	0
1/14/2025 19:09	53501	EVIL_T2	2	2	0	0.3	0.3	0	-0.7	-0.72	1	1	0	600	600	0
1/14/2025 19:09	49803	UNIV_T1	1	1	0	7.5	6.6	-0.9	0	0	0	0	0	0	0	0
1/14/2025 19:09	43304	WATS_T2	5	15	10	0.24	0.2	-0.04	0.09	0.16	0	0	0	0	0	0
1/14/2025 19:09	40101	HUNT_T2	624	572	-52	2.66	2.53	-0.13	-1.46	-1.42	0	0	0	0	0	0
1/14/2025 19:10	53501	EVIL_T2	2	2	0	0.3	0.3	0	-0.7	-0.72	1	1	0	600	600	0
1/14/2025 19:10	64802	MONE_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
1/14/2025 19:10	58202	NEWV_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
1/14/2025 19:10	48902	FOSP_T2	3	5	2	0.17	0.26	0.09	0	0	0	0	0	0	0	0
1/14/2025 19:10	60701	BREC_T1	3	2	-1	0.3	0.1	-0.2	-0.6	-0.54	2	2	0	1200	1200	0
1/14/2025 19:10	66502	SMAN_T2	0	0	0	0	0	0	-0.11	-0.18	0	0	0	0	0	0
1/14/2025 19:10	58401	MORO_T1	0	0	0	0	0	0	-1.64	-1.64	2	2	0	1200	1200	0
1/14/2025 19:10	41901	REED_T1	5	7	2	0.32	0.6	0.28	0	0	0	0	0	0	0	0
1/14/2025 19:10	55105	WERT_T1	1	2	1	0.8	0.95	0.15	0	0	0	0	0	0	0	0
1/14/2025 19:10	59202	THOM_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
1/14/2025 19:10	41903	REED_T1	0	0	0	0	0	0	0.1	0.07	1	1	0	1200	1200	0
1/14/2025 19:10	66505	SMAN_T2	3	3	0	0.27	0.53	0.26	0	0	0	0	0	0	0	0
1/14/2025 19:10	66203	SISP_T2	1	1	0	2.7	0	-2.7	0	0	0	0	0	0	0	0
1/14/2025 19:10	13702	SCHN_T1	0	0	0	0	0	0	0.8	0.77	0	0	0	0	0	0
1/14/2025 19:10	55101	WERT_T1	0	0	0	0	0	0	-1.69	-1.67	2	2	0	1500	1500	0
1/14/2025 19:10	53502	EVIL_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/14/2025 19:10	40201	BEGA_T2	38	51	13	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
1/14/2025 19:10	59101	WALK_T2	0	0	0	0	0	0	0.64	0.29	2	2	0	1200	1200	0
1/14/2025 19:10	58402	MORO_T1	2	1	-1	1.1	0.4	-0.7	0	0	0	0	0	0	0	0
1/14/2025 19:10	59201	THOM_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/14/2025 19:10	48901	FOSP_T2	5	6	1	0.16	0.23	0.07	-0.34	-0.35	1	1	0	600	600	0
1/14/2025 19:10	41902	REED_T1	24	21	-3	0.53	0.73	0.2	0.76	0.69	2	2	0	1800	1800	0
1/14/2025 19:10	18001	ZION_T1	2	2	0	8.65	8.8	0.15	0	0	0	0	0	0	0	0
1/14/2025 19:11	53502	EVIL_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/14/2025 19:11	58402	MORO_T1	2	1	-1	1.1	0.4	-0.7	-0.05	-0.04	3	3	0	1950	1950	0
1/14/2025 19:11	52502	PROG_T2	0	0	0	0	0	0	-0.28	-0.28	1	1	0	900	900	0
1/14/2025 19:11	41901	REED_T1	5	7	2	0.32	0.6	0.28	0	0	0	0	0	0	0	0
1/14/2025 19:11	53501	EVIL_T2	2	2	0	0.3	0.3	0	-1.41	-1.44	2	2	0	1200	1200	0
1/14/2025 19:11	41902	REED_T1	24	21	-3	0.53	0.73	0.2	0.38	0.35	1	1	0	900	900	0
1/14/2025 19:11	65702	RVIL_T2	0	0	0	0	0	0	-1.47	-1.47	1	1	0	600	600	0
1/14/2025 19:11	52004	LING_T2	2	2	0	5.4	5.65	0.25	0	0	0	0	0	0	0	0
1/14/2025 19:11	54504	ENOL_T2	0	0	0	0	0	0	-0.93	-0.93	1	1	0	600	600	0
1/14/2025 19:11	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 19:11	55002	NEWP_T1	2	2	0	0.5	0.95	0.45	-0.15	-0.15	0	0	0	0	0	0
1/14/2025 19:11	52006	LING_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/14/2025 19:11	54701	NEBL_T1	1	2	1	0.3	0.5	0.2	0	0	1	1	0	600	600	0
1/14/2025 19:12	55105	WERT_T1	1	2	1	0.8	0.95	0.15	0	0	0	0	0	0	0	0
1/14/2025 19:12	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:12	61701	ELIZ_T1	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
1/14/2025 19:12	15104	UPHA_T2	0	0	0	0	0	0	0.66	0.62	0	0	0	0	0	0
1/14/2025 19:12	53502	EVIL_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/14/2025 19:12	66502	SMAN_T2	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
1/14/2025 19:12	61703	ELIZ_T1	0	0	0	0	0	0	-0.78	-0.78	1	1	0	900	900	0
1/14/2025 19:12	66505	SMAN_T2	3	3	0	0.27	0.53	0.26	0	0	0	0	0	0	0	0
1/14/2025 19:12	53501	EVIL_T2	2	2	0	0.3	0.3	0	-0.7	-0.72	1	1	0	600	600	0
1/14/2025 19:12	63501	HEID_TBK1-2	26	67	41	0.19	0.38	0.19	0	0	1	1	0	900	900	0
1/14/2025 19:12	65502	MOJO_T2	0	0	0	0	0	0	-0.92	-0.84	0	0	0	0	0	0
1/14/2025 19:12	55101	WERT_T1	0	0	0	0	0	0	-1.69	-1.67	2	2	0	1500	1500	0
1/14/2025 19:12	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/14/2025 19:12	58202	NEWV_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
1/14/2025 19:13	46204	DANV_T2	12	3	-9	0.31	0	-0.31	0	0	0	0	0	0	0	0
1/14/2025 19:13	67303	WYOM_T2	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
1/14/2025 19:13	55105	WERT_T1	1	2	1	0.8	0.95	0.15	0	0	0	0	0	0	0	0
1/14/2025 19:13	55101	WERT_T1	0	0	0	0	0	0	-5.06	-5.01	6	6	0	4500	4500	0
1/14/2025 19:13	52402	GRPA_T2	5	7	2	0.96	0.83	-0.13	-0.81	-0.82	0	0	0	0	0	0
1/14/2025 19:13	46206	DANV_T2	2	0	-2	0.1	0	-0.1	1.6	1.6	2	2	0	2100	2100	0
1/14/2025 19:13	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:13	61703	ELIZ_T1	0	0	0	0	0	0	-0.78	-0.78	1	1	0	900	900	0
1/14/2025 19:13	60501	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/14/2025 19:13	52401	GRPA_T2	16	14	-2	0.42	0.33	-0.09	0	0	0	0	0	0	0	0
1/14/2025 19:13	67402	WAKE_T2	0	0	0	0	0	0	-0.29	-0.27	1	1	0	600	600	0
1/14/2025 19:13	61701	ELIZ_T1	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
1/14/2025 19:13	46203	DANV_T2	15	15	0	0.88	0.92	0.04	0	0	0	0	0	0	0	0
1/14/2025 19:13	57201	ROSS_T1	0	0	0	0	0	0	-0.66	-0.46	0	0	0	0	0	0
1/14/2025 19:13	52403	GRPA_T2	15	16	1	0.73	0.66	-0.07	0	0	0	0	0	0	0	0
1/14/2025 19:13	40101	HUNT_T2	624	572	-52	2.66	2.53	-0.13	-1.46	-1.42	0	0	0	0	0	0
1/14/2025 19:14	58402	MORO_T1	2	1	-1	1.1	0.4	-0.7	0	0	0	0	0	0	0	0
1/14/2025 19:14	13704	SCHN_T2	0	0	0	0	0	0	-0.61	-0.63	0	0	0	0	0	0
1/14/2025 19:14	58401	MORO_T1	0	0	0	0	0	0	-0.82	-0.82	1	1	0	600	600	0
1/14/2025 19:14	53502	EVIL_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/14/2025 19:14	53501	EVIL_T2	2	2	0	0.3	0.3	0	-0.7	-0.72	1	1	0	600	600	0
1/14/2025 19:14	52403	GRPA_T2	15	16	1	0.73	0.66	-0.07	0.02	0.01	0	0	0	0	0	0
1/14/2025 19:14	57106	SPHI_T2	3	3	0	1.13	1.37	0.24	0	0	0	0	0	0	0	0
1/14/2025 19:14	59101	WALK_T2	0	0	0	0	0	0	0.64	0.29	2	2	0	1200	1200	0
1/14/2025 19:14	57104	SPHI_T2	1	1	0	2.7	2.3	-0.4	-1.7	-1.74	1	1	0	900	900	0
1/14/2025 19:14	52401	GRPA_T2	16	14	-2	0.42	0.33	-0.09	0	0	0	0	0	0	0	0
1/14/2025 19:14	52402	GRPA_T2	5	7	2	0.96	0.83	-0.13	0	0	0	0	0	0	0	0
1/14/2025 19:14	54603	SUMM_T2	0	0	0	0	0	0	-0.29	-0.31	1	1	0	900	900	0
1/14/2025 19:15	61701	ELIZ_T1	1	1	0	6.2	6.4	0.2	0	0	0	0	0	0	0	0
1/14/2025 19:15	46506	LOHA_T1	2	3	1	0.55	0.73	0.18	0	0	0	0	0	0	0	0
1/14/2025 19:15	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:15	46501	LOHA_T1	40	55	15	0.64	0.77	0.13	0	0	0	0	0	0	0	0
1/14/2025 19:15	61304	EARL_T1	0	0	0	0	0	0	-0.74	-0.78	1	1	0	600	600	0
1/14/2025 19:15	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:15	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
1/14/2025 19:15	59101	WALK_T2	0	0	0	0	0	0	0.64	0.29	2	2	0	1200	1200	0
1/14/2025 19:15	60701	BREC_T1	1	2	1	0.1	0.4	0.3	-0.3	-0.27	1	1	0	600	600	0
1/14/2025 19:16	44301	BEAV_T2	4	9	5	0.83	0.66	-0.17	0	0	0	0	0	0	0	0
1/14/2025 19:16	67402	WAKE_T2	0	0	0	0	0	0	-0.29	-0.27	1	1	0	600	600	0
1/14/2025 19:16	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:16	58402	MORO_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
1/14/2025 19:16	67401	WAKE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:16	58401	MORO_T1	0	0	0	0	0	0	-0.82	-0.82	1	1	0	600	600	0
1/14/2025 19:16	66505	SMAN_T2	3	3	0	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
1/14/2025 19:16	44302	BEAV_T2	4	0	-4	0.18	0	-0.18	0	0	0	0	0	0	0	0
1/14/2025 19:16	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:17	52102	MEIS_T1	1	1	0	0.7	0	-0.7	0	0	1	1	0	450	450	0
1/14/2025 19:17	56501	ROCK_T2	1	2	1	1.6	1.2	-0.4	-0.74	-0.75	0	0	0	0	0	0
1/14/2025 19:17	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:17	60501	NMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/14/2025 19:17	51202	MTON_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
1/14/2025 19:17	55105	WERT_T1	0	0	0	0	0	0	-0.27	-0.27	1	1	0	900	900	0
1/14/2025 19:18	67401	WAKE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:18	58401	MORO_T1	0	0	0	0	0	0	-0.82	-0.82	1	1	0	600	600	0
1/14/2025 19:18	58402	MORO_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
1/14/2025 19:18	64904	MILL_T1	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
1/14/2025 19:18	55101	WERT_T1	0	0	0	0	0	0	-1.69	-1.67	2	2	0	1500	1500	0
1/14/2025 19:18	67402	WAKE_T2	0	0	0	0	0	0	-0.29	-0.27	1	1	0	600	600	0
1/14/2025 19:20	52403	GRPA_T2	16	11	-5	0.72	0.66	-0.06	0.02	0.01	0	0	0	0	0	0
1/14/2025 19:20	52401	GRPA_T2	6	13	7	0.3	0.33	0.03	0	0	0	0	0	0	0	0
1/14/2025 19:20	26704	HEML_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
1/14/2025 19:20	52402	GRPA_T2	3	8	5	0.83	0.32	-0.51	0	0	0	0	0	0	0	0
1/14/2025 19:20	44801	EDAN_T2	0	1	1	0	0	0	-0.28	-0.27	0	0	0	0	0	0
1/14/2025 19:21	52402	GRPA_T2	3	8	5	0.83	0.32	-0.51	0	0	0	0	0	0	0	0
1/14/2025 19:21	52403	GRPA_T2	16	11	-5	0.72	0.66	-0.06	0.01	-0.02	0	0	0	0	0	0
1/14/2025 19:21	52401	GRPA_T2	6	13	7	0.3	0.33	0.03	0	0	0	0	0	0	0	0
1/14/2025 19:29	57205	ROSS_T1	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
1/14/2025 19:35	65503	MOJO_T2	0	0	0	0	0	0	-0.41	-0.38	0	0	0	0	0	0
1/14/2025 19:50	40201	BEGA_T2	17	29	12	0.37	0.27	-0.1	0	0	0	0	0	0	0	0
1/14/2025 19:57	55001	NEWP_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/14/2025 19:57	55002	NEWP_T1	2	3	1	0.55	0.6	0.05	-0.14	-0.16	0	0	0	0	0	0
1/14/2025 20:25	62106	ELAN_T1	0	0	0	0	0	0	0.03	0.08	0	0	0	0	0	0
1/14/2025 20:25	62105	ELAN_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
1/14/2025 20:33	48901	FOSP_T2	4	4	0	0.18	0.25	0.07	0	0	0	0	0	0	0	0
1/14/2025 20:33	48902	FOSP_T2	3	5	2	0.13	0.18	0.05	0.1	0.07	0	0	0	0	0	0
1/14/2025 20:41	44902	SCOT_T2	166	22	-144	0.25	0.12	-0.13	-0.86	-0.88	0	0	0	0	0	0
1/14/2025 21:20	60701	BREC_T1	1	0	-1	0.2	0	-0.2	-0.36	-0.36	1	1	0	600	600	0
1/14/2025 23:22	43304	WATS_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
1/15/2025 7:55	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 7:56	66503	SMAN_T2	0	0	0	0	0	0	0.47	0.54	0	0	0	0	0	0
1/15/2025 7:59	53501	EVIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/15/2025 7:59	53502	EVIL_T2	13	14	1	1.05	0.66	-0.39	0	0	0	0	0	0	0	0
1/15/2025 8:05	44703	MUNC_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 8:05	54203	PENN_T1	18	19	1	0.94	1.13	0.19	0	0	0	0	0	0	0	0
1/15/2025 8:05	44701	MUNC_T2	1	5	4	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/15/2025 8:05	54201	PENN_T1	43	102	59	0.39	0.36	-0.03	-1.35	-1.32	0	0	0	0	0	0
1/15/2025 8:06	13704	SCHN_T2	1	0	-1	0.4	0	-0.4	-0.53	-0.55	0	0	0	0	0	0
1/15/2025 8:07	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/15/2025 8:07	66504	SMAN_T2	0	0	0	0	0	0	-1.28	-1.28	1	1	0	1200	1200	0
1/15/2025 8:08	63401	HONY_T1	0	0	0	0	0	0	0.59	0.12	1	1	0	600	600	0
1/15/2025 8:14	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 8:17	26704	HEML_T2	0	0	0	0	0	0	-0.33	-0.3	0	0	0	0	0	0
1/15/2025 8:17	26702	HEML_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/15/2025 8:24	41903	REED_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 8:24	41901	REED_T1	5	7	2	0.28	0.54	0.26	0	0	0	0	0	0	0	0
1/15/2025 8:24	41902	REED_T1	1	2	1	0.2	0	-0.2	0.52	0.54	1	1	0	900	900	0
1/15/2025 8:29	51603	DUKE_T1	0	1	1	0	0.2	0.2	-1.46	-0.14	0	0	0	0	0	0
1/15/2025 8:30	63501	HEID_TBK1-2	0	6	6	0	0.15	0.15	0	0	1	1	0	900	900	0
1/15/2025 8:30	51603	DUKE_T1	1	0	-1	0.2	0	-0.2	-1.46	-0.14	0	0	0	0	0	0
1/15/2025 8:31	45501	DERR_T2	3	2	-1	0.5	0	-0.5	0.88	0.94	2	2	0	1800	1800	0
1/15/2025 8:31	45502	DERR_T2	6	5	-1	0.68	0.2	-0.48	0	0	0	0	0	0	0	0
1/15/2025 8:31	60701	BREC_T1	0	0	0	0	0	0	-0.54	-0.47	2	2	0	1200	1200	0
1/15/2025 8:33	63501	HEID_TBK1-2	0	6	6	0	0.15	0.15	0	0	2	2	0	1800	1800	0
1/15/2025 8:34	55002	NEWP_T1	4	5	1	0.6	0.94	0.34	-0.12	-0.14	0	0	0	0	0	0
1/15/2025 8:35	43201	MVIL_T2	1	0	-1	0.1	0	-0.1	-0.24	-0.24	0	0	0	0	0	0
1/15/2025 8:35	43202	MVIL_T2	1	1	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
1/15/2025 8:36	41901	REED_T1	6	8	2	0.42	0.58	0.16	0	0	0	0	0	0	0	0
1/15/2025 8:36	41902	REED_T1	2	1	-1	0.1	0	-0.1	0.52	0.54	1	1	0	900	900	0
1/15/2025 8:36	41903	REED_T1	4	0	-4	0.43	0	-0.43	0	0	0	0	0	0	0	0
1/15/2025 8:37	41902	REED_T1	2	1	-1	0.1	0	-0.1	0.54	0.45	1	1	0	900	900	0
1/15/2025 8:37	41903	REED_T1	4	0	-4	0.43	0	-0.43	0	0	0	0	0	0	0	0
1/15/2025 8:37	41901	REED_T1	6	8	2	0.42	0.58	0.16	0	0	0	0	0	0	0	0
1/15/2025 8:37	66901	SHIL_T2	0	0	0	0	0	0	-1.49	-1.49	1	1	0	1200	1200	0
1/15/2025 8:40	16101	BING_T2	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
1/15/2025 8:40	66903	SHIL_T2	0	0	0	0	0	0	-1.13	-1.13	0	0	0	0	0	0
1/15/2025 8:41	45502	DERR_T2	6	5	-1	0.68	0.2	-0.48	0	0	0	0	0	0	0	0
1/15/2025 8:41	45501	DERR_T2	3	2	-1	0.5	0	-0.5	0.94	0.92	2	2	0	1800	1800	0
1/15/2025 8:43	46206	DANV_T2	15	45	30	0.68	0.68	0	3.16	3.1	1	1	0	1200	1200	0
1/15/2025 8:43	46204	DANV_T2	81	103	22	0.42	0.28	-0.14	0	0	0	0	0	0	0	0
1/15/2025 8:43	66903	SHIL_T2	0	0	0	0	0	0	-1.13	-1.13	0	0	0	0	0	0
1/15/2025 8:43	46203	DANV_T2	7	7	0	0.17	0.54	0.37	0	0	0	0	0	0	0	0
1/15/2025 8:44	14204	EALL_T2	0	0	0	0	0	0	-0.36	-0.4	1	1	0	1200	1200	0
1/15/2025 8:46	66903	SHIL_T2	0	0	0	0	0	0	-1.13	-1.13	0	0	0	0	0	0
1/15/2025 8:46	26402	INOR_T1	0	0	0	0	0	0	-1.61	-1.63	1	1	0	600	600	0
1/15/2025 8:46	20601	GRWO_T2	136	114	-22	0.91	0.78	-0.13	0.78	0.75	0	0	0	0	0	0
1/15/2025 8:46	26401	INOR_T1	95	85	-10	0.97	0.63	-0.34	0	0	0	0	0	0	0	0
1/15/2025 8:47	23401	HONE_T2	24	25	1	0.43	0.47	0.04	0.36	0.3	0	0	0	0	0	0
1/15/2025 8:50	56501	ROCK_T2	1	1	0	2	3	1	-0.79	-0.77	0	0	0	0	0	0
1/15/2025 8:50	43202	MVIL_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
1/15/2025 8:50	44203	POIN_T2	3	2	-1	0.67	0.7	0.03	0	0	0	0	0	0	0	0
1/15/2025 8:50	43201	MVIL_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
1/15/2025 8:50	14201	EALL_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
1/15/2025 8:51	56501	ROCK_T2	1	1	0	2	3	1	-0.77	-0.79	0	0	0	0	0	0
1/15/2025 8:52	41901	REED_T1	7	8	1	0.53	0.65	0.12	0	0	0	0	0	0	0	0
1/15/2025 8:52	13503	MCMI_T2	0	2	2	0	0	0	0.46	0.46	0	0	0	0	0	0
1/15/2025 8:52	41902	REED_T1	0	6	6	0	0.2	0.2	0.91	1.05	2	2	0	1800	1800	0
1/15/2025 8:55	59101	WALK_T2	0	2	2	0	0.15	0.15	1.96	1.26	1	1	0	600	600	0
1/15/2025 8:56	21501	CEAV_T2	1	1	0	0	0	0	0.03	-0.01	0	0	0	0	0	0
1/15/2025 8:57	46204	DANV_T2	23	103	80	0.28	0.39	0.11	0	0	0	0	0	0	0	0
1/15/2025 8:57	46203	DANV_T2	7	9	2	0.46	0.57	0.11	-1.21	-1.22	0	0	0	0	0	0
1/15/2025 8:57	46206	DANV_T2	15	51	36	0.74	0.61	-0.13	0	0	0	0	0	0	0	0
1/15/2025 8:58	46203	DANV_T2	7	9	2	0.46	0.57	0.11	0	0	0	0	0	0	0	0
1/15/2025 8:58	46204	DANV_T2	23	103	80	0.28	0.39	0.11	0	0	0	0	0	0	0	0
1/15/2025 8:58	46206	DANV_T2	15	51	36	0.74	0.61	-0.13	3.1	3.09	1	1	0	1200	1200	0
1/15/2025 8:59	46204	DANV_T2	23	103	80	0.28	0.39	0.11	0	0	0	0	0	0	0	0
1/15/2025 8:59	46206	DANV_T2	15	51	36	0.74	0.61	-0.13	3.1	3.09	1	1	0	1200	1200	0
1/15/2025 8:59	46203	DANV_T2	7	9	2	0.46	0.57	0.11	0	0	0	0	0	0	0	0
1/15/2025 8:59	44801	EDAN_T2	0	1	1	0	0	0	-0.25	-0.25	0	0	0	0	0	0
1/15/2025 9:00	44502	HAMI_T2	1	2	1	2.3	2.4	0.1	0.06	0.06	0	0	0	0	0	0
1/15/2025 9:00	44503	HAMI_T2	0	3	3	0	0.25	0.25	0	0	0	0	0	0	0	0
1/15/2025 9:00	41901	REED_T1	8	9	1	0.58	0.57	-0.01	0	0	0	0	0	0	0	0
1/15/2025 9:00	13503	MCMI_T2	2	0	-2	0.25	0	-0.25	0.46	0.46	0	0	0	0	0	0
1/15/2025 9:00	55002	NEWP_T1	5	6	1	0.94	0.58	-0.36	-0.13	-0.14	0	0	0	0	0	0
1/15/2025 9:00	46206	DANV_T2	45	30	-15	0.53	0.79	0.26	3.1	3.09	1	1	0	1200	1200	0
1/15/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
1/15/2025 9:00	41902	REED_T1	1	6	5	0.2	0.3	0.1	0.45	0.52	1	1	0	900	900	0
1/15/2025 9:00	46204	DANV_T2	103	81	-22	0.57	0.27	-0.3	0	0	0	0	0	0	0	0
1/15/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
1/15/2025 9:00	46203	DANV_T2	7	9	2	0.53	0.64	0.11	-1.21	-1.22	0	0	0	0	0	0
1/15/2025 9:07	13503	MCMI_T2	2	0	-2	0.25	0	-0.25	0.46	0.44	0	0	0	0	0	0
1/15/2025 9:08	67002	STHI_T2	0	1	1	0	0.2	0.2	2.04	1.98	0	0	0	0	0	0
1/15/2025 9:08	13303	ORVI_T1	0	0	0	0	0	0	1.03	1.1	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/15/2025 9:08	67001	STHI_T2	2	1	-1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
1/15/2025 9:09	67002	STHI_T2	0	1	1	0	0.2	0.2	0.68	0.66	0	0	0	0	0	0
1/15/2025 9:09	67001	STHI_T2	2	1	-1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
1/15/2025 9:10	67002	STHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/15/2025 9:10	67001	STHI_T2	2	1	-1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
1/15/2025 9:11	67002	STHI_T2	0	1	1	0	0.2	0.2	0.68	0.66	0	0	0	0	0	0
1/15/2025 9:11	67001	STHI_T2	2	1	-1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
1/15/2025 9:11	46002	BERW_T2	0	0	0	0	0	0	-1.17	-1.14	1	1	0	900	900	0
1/15/2025 9:11	46004	BERW_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 9:12	67002	STHI_T2	0	1	1	0	0.2	0.2	0.68	0.66	0	0	0	0	0	0
1/15/2025 9:12	49803	UNIV_T1	1	1	0	6	5.8	-0.2	-0.85	-0.9	0	0	0	0	0	0
1/15/2025 9:12	67001	STHI_T2	2	1	-1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
1/15/2025 9:12	42701	AUGU_T1	3	4	1	0.4	1	0.6	0	0	0	0	0	0	0	0
1/15/2025 9:13	53501	EVIL_T2	2	1	-1	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
1/15/2025 9:13	53502	EVIL_T2	12	13	1	0.84	1.4	0.56	0	0	0	0	0	0	0	0
1/15/2025 9:14	53501	EVIL_T2	2	1	-1	0.75	0.6	-0.15	-2.5	-2.39	4	4	0	2400	2400	0
1/15/2025 9:14	63501	HEID_TBK1-2	5	0	-5	0.14	0	-0.14	0	0	1	1	0	900	900	0
1/15/2025 9:14	44801	EDAN_T2	0	1	1	0	0	0	-0.25	-0.26	0	0	0	0	0	0
1/15/2025 9:14	53502	EVIL_T2	12	13	1	0.84	1.4	0.56	0	0	0	0	0	0	0	0
1/15/2025 9:15	26704	HEML_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
1/15/2025 9:16	11101	EGYP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/15/2025 9:16	11104	EGYP_T1	1	0	-1	0.9	0	-0.9	0.56	0.55	0	0	0	0	0	0
1/15/2025 9:16	63501	HEID_TBK1-2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/15/2025 9:17	63501	HEID_TBK1-2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/15/2025 9:17	20601	GRWO_T2	97	141	44	0.8	0.77	-0.03	0.71	0.73	0	0	0	0	0	0
1/15/2025 9:18	46802	HEPB_T1	9	23	14	0.4	0.25	-0.15	-1.1	-1.11	0	0	0	0	0	0
1/15/2025 9:19	20601	GRWO_T2	97	141	44	0.8	0.77	-0.03	0.71	0.73	0	0	0	0	0	0
1/15/2025 9:22	56501	ROCK_T2	1	2	1	3	3.6	0.6	-1.69	-1.66	0	0	0	0	0	0
1/15/2025 9:22	65202	PRIN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/15/2025 9:22	44901	SCOT_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
1/15/2025 9:22	65205	PRIN_T1	2	2	0	0.85	0.5	-0.35	0	0	0	0	0	0	0	0
1/15/2025 9:22	44902	SCOT_T2	2	3	1	0.4	0.4	0	-0.89	-0.89	0	0	0	0	0	0
1/15/2025 9:23	44902	SCOT_T2	2	3	1	0.4	0.4	0	-0.89	-0.89	0	0	0	0	0	0
1/15/2025 9:23	44901	SCOT_T2	1	2	1	0.1	0.6	0.5	-0.04	-0.06	0	0	0	0	0	0
1/15/2025 9:25	63403	HONY_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
1/15/2025 9:25	63402	HONY_T2	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
1/15/2025 9:26	13702	SCHN_T1	0	0	0	0	0	0	0.78	0.82	0	0	0	0	0	0
1/15/2025 9:27	46101	MACI_T2	0	0	0	0	0	0	0.65	0.69	1	1	0	1200	1200	0
1/15/2025 9:28	10805	CHHI_T2	7	7	0	1.1	3.65	2.55	-1.67	-1.64	2	2	0	1800	1800	0
1/15/2025 9:29	46204	DANV_T2	81	26	-55	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
1/15/2025 9:29	46203	DANV_T2	8	9	1	0.58	0.61	0.03	-1.26	-1.27	0	0	0	0	0	0
1/15/2025 9:29	41801	GOCI_T2	1	3	2	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
1/15/2025 9:29	46206	DANV_T2	30	15	-15	0.6	0.86	0.26	0	0	0	0	0	0	0	0
1/15/2025 9:30	13702	SCHN_T1	0	0	0	0	0	0	0.78	0.82	0	0	0	0	0	0
1/15/2025 9:30	40802	EXCH_T2	1	1	0	0.2	0.5	0.3	-0.32	-0.18	0	0	0	0	0	0
1/15/2025 9:30	46206	DANV_T2	9	16	7	0.88	0.82	-0.06	2.98	2.87	1	1	0	1200	1200	0
1/15/2025 9:30	46204	DANV_T2	26	14	-12	0.27	0.3	0.03	0	0	0	0	0	0	0	0
1/15/2025 9:30	46203	DANV_T2	9	0	-9	0.61	0	-0.61	0	0	0	0	0	0	0	0
1/15/2025 9:30	40801	EXCH_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
1/15/2025 9:33	41801	GOCI_T2	1	26	25	0.7	0.21	-0.49	0	0	0	0	0	0	0	0
1/15/2025 9:34	13302	ORVI_T2	2	0	-2	0.1	0	-0.1	1.65	1.57	0	0	0	0	0	0
1/15/2025 9:36	46206	DANV_T2	9	16	7	0.88	0.82	-0.06	2.98	2.87	1	1	0	1200	1200	0
1/15/2025 9:36	46203	DANV_T2	9	0	-9	0.61	0	-0.61	0	0	0	0	0	0	0	0
1/15/2025 9:36	46204	DANV_T2	26	14	-12	0.27	0.3	0.03	0	0	0	0	0	0	0	0
1/15/2025 9:42	11103	EGYP_T1	0	0	0	0	0	0	-0.74	0.52	0	0	0	0	0	0
1/15/2025 9:42	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 9:42	11101	EGYP_T1	1	1	0	0.2	0.4	0.2	-0.68	-0.7	1	1	0	1200	1200	0
1/15/2025 9:42	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 9:42	44302	BEAV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 9:43	21501	CEAV_T2	1	1	0	0	0	0	0.11	-0.09	0	0	0	0	0	0
1/15/2025 9:44	11104	EGYP_T1	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
1/15/2025 9:44	11101	EGYP_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/15/2025 9:44	45501	DERR_T2	0	0	0	0	0	0	0.75	0.81	2	2	0	1800	1800	0
1/15/2025 9:45	52401	GRPA_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
1/15/2025 9:45	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/15/2025 9:45	29402	BELT_T1	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
1/15/2025 9:45	52402	GRPA_T2	0	3	3	0	0.37	0.37	-0.74	-0.78	0	0	0	0	0	0
1/15/2025 9:45	45501	DERR_T2	0	0	0	0	0	0	0.75	0.81	2	2	0	1800	1800	0
1/15/2025 9:45	52403	GRPA_T2	7	25	18	0.64	0.53	-0.11	0	0	0	0	0	0	0	0
1/15/2025 9:46	11101	EGYP_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
1/15/2025 9:47	46204	DANV_T2	4	15	11	0.3	0.37	0.07	0	0	0	0	0	0	0	0
1/15/2025 9:47	46206	DANV_T2	14	10	-4	0.64	0.3	-0.34	0	0	0	0	0	0	0	0
1/15/2025 9:47	46203	DANV_T2	0	0	0	0	0	0	-1.27	-0.38	0	0	0	0	0	0
1/15/2025 9:48	22601	KIMB_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 9:48	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.23	0	0	0	0	0	0
1/15/2025 9:50	55001	NEWP_T1	0	1	1	0	0.1	0.1	-0.72	-0.76	1	1	0	600	600	0
1/15/2025 9:50	55002	NEWP_T1	4	6	2	0.53	0.52	-0.01	0	0	0	0	0	0	0	0
1/15/2025 9:52	55001	NEWP_T1	0	1	1	0	0.1	0.1	-0.76	-0.71	1	1	0	600	600	0
1/15/2025 9:52	55002	NEWP_T1	4	6	2	0.53	0.52	-0.01	0	0	0	0	0	0	0	0
1/15/2025 9:53	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/15/2025 9:53	55002	NEWP_T1	4	6	2	0.53	0.52	-0.01	-0.18	-0.18	0	0	0	0	0	0
1/15/2025 9:55	44901	SCOT_T2	2	2	0	0.6	1	0.4	-0.07	0.07	0	0	0	0	0	0
1/15/2025 9:55	43801	SWIL_T1	4	2	-2	1.28	4.9	3.62	0	0	0	0	0	0	0	0
1/15/2025 9:55	43802	SWIL_T1	0	0	0	0	0	0	-0.07	-0.07	1	1	0	600	600	0
1/15/2025 9:55	29402	BELT_T1	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
1/15/2025 9:55	44902	SCOT_T2	3	43	40	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
1/15/2025 9:58	40201	BEGA_T2	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
1/15/2025 9:59	29402	BELT_T1	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
1/15/2025 10:00	26703	HEML_T1	0	1	1	0	0.1	0.1	-0.58	-0.61	1	1	0	600	600	0
1/15/2025 10:00	26701	HEML_T1	3	3	0	0.73	0.85	0.12	0	0	0	0	0	0	0	0
1/15/2025 10:00	16102	BING_T2	1	1	0	0.3	0.4	0.1	0.1	0.08	0	0	0	0	0	0
1/15/2025 10:00	16103	BING_T2	0	0	0	0	0	0	-2.05	-2.07	2	2	0	1500	1500	0
1/15/2025 10:01	52401	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/15/2025 10:01	52402	GRPA_T2	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0	0
1/15/2025 10:01	52403	GRPA_T2	22	30	8	0.53	0.55	0.02	-0.04	-0.03	0	0	0	0	0	0
1/15/2025 10:02	20602	GRWO_T2	2	2	0	0.55	0	-0.55	0	0	0	0	0	0	0	0
1/15/2025 10:02	20603	GRWO_T2	0	0	0	0	0	0	-0.48	-0.48	1	1	0	900	900	0
1/15/2025 10:02	20601	GRWO_T2	120	78	-42	0.79	0.52	-0.27	0	0	0	0	0	0	0	0
1/15/2025 10:05	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 10:06	41902	REED_T1	0	0	0	0	0	0	0.86	0.92	2	2	0	1800	1800	0
1/15/2025 10:06	41901	REED_T1	8	9	1	0.65	0.76	0.11	0	0	0	0	0	0	0	0
1/15/2025 10:07	59202	THOM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/15/2025 10:07	41901	REED_T1	8	9	1	0.65	0.76	0.11	0	0	0	0	0	0	0	0
1/15/2025 10:07	41902	REED_T1	0	0	0	0	0	0	0.46	0.47	1	1	0	900	900	0
1/15/2025 10:09	41902	REED_T1	0	0	0	0	0	0	0.46	0.47	1	1	0	900	900	0
1/15/2025 10:09	41901	REED_T1	8	9	1	0.65	0.76	0.11	0	0	0	0	0	0	0	0
1/15/2025 10:11	49804	UNIV_T1	0	0	0	0	0	0	0.66	0.64	0	0	0	0	0	0
1/15/2025 10:11	49803	UNIV_T1	1	2	1	6.4	3.2	-3.2	0	0	0	0	0	0	0	0
1/15/2025 10:13	40703	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/15/2025 10:13	53502	EVIL_T2	13	15	2	0.91	1.25	0.34	0	0	0	0	0	0	0	0
1/15/2025 10:13	53501	EVIL_T2	2	2	0	0.55	0.55	0	-1.09	-1.18	2	2	0	1200	1200	0
1/15/2025 10:13	40701	FFLD_T1	8	24	16	0.13	0.29	0.16	0	0	0	0	0	0	0	0
1/15/2025 10:13	40702	FFLD_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/15/2025 10:14	40701	FFLD_T1	8	24	16	0.13	0.29	0.16	0	0	0	0	0	0	0	0
1/15/2025 10:14	40703	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/15/2025 10:14	40702	FFLD_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/15/2025 10:14	53501	EVIL_T2	2	2	0	0.55	0.55	0	-1.09	-1.18	2	2	0	1200	1200	0
1/15/2025 10:14	53502	EVIL_T2	13	15	2	0.91	1.25	0.34	0	0	0	0	0	0	0	0
1/15/2025 10:15	53502	EVIL_T2	4	15	11	1.25	0.82	-0.43	0	0	0	0	0	0	0	0
1/15/2025 10:15	53501	EVIL_T2	2	2	0	0.2	0.9	0.7	-1.09	-1.18	2	2	0	1200	1200	0
1/15/2025 10:15	40802	EXCH_T2	1	1	0	0.5	0.8	0.3	-0.15	-0.48	0	0	0	0	0	0
1/15/2025 10:15	40801	EXCH_T2	4	2	-2	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
1/15/2025 10:16	53502	EVIL_T2	4	15	11	1.25	0.82	-0.43	0	0	0	0	0	0	0	0
1/15/2025 10:16	53501	EVIL_T2	2	2	0	0.2	0.9	0.7	-2.18	-2.35	4	4	0	2400	2400	0
1/15/2025 10:21	65503	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 10:21	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 10:23	24206	PROV_T4	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
1/15/2025 10:23	24202	PROV_T4	0	0	0	0	0	0	-0.64	-0.64	1	1	0	1200	1200	0
1/15/2025 10:23	24203	PROV_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 10:26	55101	WERT_T1	0	0	0	0	0	0	-2.67	-2.57	4	4	0	3000	3000	0
1/15/2025 10:27	42701	AUGU_T1	1	1	0	0.8	0.8	0	0	0	2	2	0	1800	1800	0
1/15/2025 10:30	63306	GREE_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/15/2025 10:30	63305	GREE_T1	4	3	-1	0.15	0.25	0.1	0	0	0	0	0	0	0	0
1/15/2025 10:30	63303	GREE_T1	0	0	0	0	0	0	-0.54	-0.63	2	2	0	1800	1800	0
1/15/2025 10:31	40801	EXCH_T2	2	4	2	0.1	0.18	0.08	0	0	0	0	0	0	0	0
1/15/2025 10:31	40802	EXCH_T2	1	2	1	0.8	0.45	-0.35	-0.48	-0.38	0	0	0	0	0	0
1/15/2025 10:32	23401	HONE_T2	16	28	12	0.41	0.44	0.03	0.26	0.31	0	0	0	0	0	0
1/15/2025 10:32	40801	EXCH_T2	2	4	2	0.1	0.18	0.08	-0.43	-0.39	1	1	0	1200	1200	0
1/15/2025 10:32	40802	EXCH_T2	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
1/15/2025 10:33	64904	MILL_T1	1	1	0	0.2	0.4	0.2	-0.21	-0.2	0	0	0	0	0	0
1/15/2025 10:33	64901	MILL_T1	6	13	7	0.13	0.15	0.02	0	0	0	0	0	0	0	0
1/15/2025 10:34	55002	NEWP_T1	8	7	-1	0.55	0.73	0.18	-0.16	-0.17	0	0	0	0	0	0
1/15/2025 10:38	57205	ROSS_T1	0	1	1	0	0.2	0.2	-0.09	-0.06	0	0	0	0	0	0
1/15/2025 10:39	59101	WALK_T2	2	2	0	0.3	0.25	-0.05	0.83	1.05	2	2	0	1200	1200	0
1/15/2025 10:40	41901	REED_T1	8	9	1	0.65	0.61	-0.04	0	0	0	0	0	0	0	0
1/15/2025 10:40	59101	WALK_T2	2	2	0	0.3	0.25	-0.05	1.66	2.09	4	4	0	2400	2400	0
1/15/2025 10:40	41902	REED_T1	0	3	3	0	0	0	0.46	0.51	1	1	0	900	900	0
1/15/2025 10:46	10801	CHHI_T1	1	2	1	0.5	0.4	-0.1	-1.92	-1.89	3	3	0	2100	2100	0
1/15/2025 10:48	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/15/2025 10:48	54506	ENOL_T2	0	0	0	0	0	0	0.3	0.27	1	1	0	600	600	0
1/15/2025 10:50	13202	PALM_T2	1	1	0	0.4	0	-0.4	-1.77	-1.75	4	4	0	3600	3600	0
1/15/2025 10:50	55002	NEWP_T1	7	7	0	0.7	0.8	0.1	-0.17	-0.2	0	0	0	0	0	0
1/15/2025 10:52	13202	PALM_T2	1	1	0	0.4	0	-0.4	-1.75	-1.71	4	4	0	3600	3600	0
1/15/2025 10:55	43304	WATS_T2	2	1	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
1/15/2025 10:55	43301	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 10:56	41901	REED_T1	7	9	2	0.49	0.64	0.15	0	0	0	0	0	0	0	0
1/15/2025 10:56	41902	REED_T1	0	3	3	0	0	0	0.51	0.35	1	1	0	900	900	0
1/15/2025 10:57	61001	DONV_T1	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
1/15/2025 11:02	58402	MORO_T1	0	0	0	0	0	0	-0.59	-0.53	3	3	0	2400	2400	0
1/15/2025 11:04	58402	MORO_T1	0	0	0	0	0	0	-0.59	-0.53	3	3	0	2400	2400	0
1/15/2025 11:06	55002	NEWP_T1	4	8	4	1.08	0.78	-0.3	-0.18	-0.17	0	0	0	0	0	0
1/15/2025 11:06	58402	MORO_T1	0	0	0	0	0	0	-0.53	-0.47	3	3	0	2400	2400	0
1/15/2025 11:07	41902	REED_T1	3	1	-2	0.53	0	-0.53	0.35	0.37	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/15/2025 11:07	41901	REED_T1	9	9	0	0.61	0.61	0	0	0	0	0	0	0	0	0
1/15/2025 11:07	58202	NEWV_T1	1	4	3	0.1	0.2	0.1	-0.05	-0.03	0	0	0	0	0	0
1/15/2025 11:11	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 11:12	10801	OHHI_T1	1	1	0	0.4	0.4	0	-1.93	-1.74	3	3	0	2100	2100	0
1/15/2025 11:20	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
1/15/2025 11:20	52101	MEIS_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
1/15/2025 11:21	20802	LOPO_T1	1	5	4	0.9	0.55	-0.35	-0.93	-0.93	1	1	0	600	600	0
1/15/2025 11:21	20801	LOPO_T1	20	19	-1	0.46	0.61	0.15	0	0	0	0	0	0	0	0
1/15/2025 11:22	55002	NEWP_T1	7	7	0	0.73	0.87	0.14	-0.17	-0.17	0	0	0	0	0	0
1/15/2025 11:23	60301	TWVA_T2	0	1	1	0	0	0	-2.21	-0.92	1	0	-1	1200	0	-1200
1/15/2025 11:30	16103	BING_T2	0	0	0	0	0	0	-1.46	-1.49	1	1	0	900	900	0
1/15/2025 11:30	16102	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/15/2025 11:37	52502	PROG_T2	1	1	0	0.7	0.4	-0.3	-0.43	-0.4	1	1	0	900	900	0
1/15/2025 11:38	52502	PROG_T2	1	1	0	0.7	0.4	-0.3	-0.86	-0.8	2	2	0	1800	1800	0
1/15/2025 11:45	24101	EHAZ_T1	172	172	0	1.41	1.57	0.16	0	0	0	0	0	0	0	0
1/15/2025 11:45	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 11:45	24103	EHAZ_T1	15	7	-8	0.89	0.78	-0.11	0	0	0	0	0	0	0	0
1/15/2025 11:45	24105	EHAZ_T1	25	17	-8	1.55	2.54	0.99	0	0	0	0	0	0	0	0
1/15/2025 11:45	24102	EHAZ_T1	8	4	-4	1.24	3.6	2.36	-0.19	-0.16	0	0	0	0	0	0
1/15/2025 11:45	17802	GILB_T1	1	0	-1	0.2	0	-0.2	0.25	0.26	0	0	0	0	0	0
1/15/2025 11:46	45802	HEGI_T2	18	31	13	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
1/15/2025 11:46	52402	GRPA_T2	6	7	1	0.65	0.3	-0.35	0	0	0	0	0	0	0	0
1/15/2025 11:46	13704	SCHN_T2	0	1	1	0	0	0	-0.71	-0.71	0	0	0	0	0	0
1/15/2025 11:46	40101	HUNT_T2	439	418	-21	1.47	1.03	-0.44	-0.87	-1.01	0	0	0	0	0	0
1/15/2025 11:46	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/15/2025 11:46	52401	GRPA_T2	4	3	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/15/2025 11:46	52403	GRPA_T2	36	43	7	0.84	0.83	-0.01	-0.05	-0.02	0	0	0	0	0	0
1/15/2025 11:47	46203	DANV_T2	1	0	-1	0.2	0	-0.2	-0.34	-0.36	0	0	0	0	0	0
1/15/2025 11:48	40101	HUNT_T2	439	418	-21	1.47	1.03	-0.44	-0.87	-1.01	0	0	0	0	0	0
1/15/2025 11:49	40101	HUNT_T2	439	418	-21	1.47	1.03	-0.44	-0.87	-1.01	0	0	0	0	0	0
1/15/2025 11:50	64802	MONE_T2	5	13	8	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
1/15/2025 11:50	52101	MEIS_T1	1	3	2	1.3	0.53	-0.77	0	0	0	0	0	0	0	0
1/15/2025 11:50	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/15/2025 11:51	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 11:51	40602	PIGR_T1	0	0	0	0	0	0	-1.5	-1.59	1	1	0	600	600	0
1/15/2025 11:51	40601	PIGR_T1	2	32	30	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
1/15/2025 11:52	40602	PIGR_T1	0	0	0	0	0	0	-1.59	-1.59	1	1	0	600	600	0
1/15/2025 11:52	40601	PIGR_T1	2	32	30	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
1/15/2025 11:53	64802	MONE_T2	5	13	8	0.26	0.23	-0.03	0.11	0.1	0	0	0	0	0	0
1/15/2025 11:53	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/15/2025 11:54	64302	LINC_T2	1	0	-1	0.2	0	-0.2	0.58	0.57	0	0	0	0	0	0
1/15/2025 11:54	64304	LINC_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
1/15/2025 11:55	67002	STHI_T2	5	4	-1	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
1/15/2025 11:55	67001	STHI_T2	3	4	1	0.33	0.25	-0.08	0.17	0.16	0	0	0	0	0	0
1/15/2025 11:56	13303	ORVI_T1	0	0	0	0	0	0	1.05	1.11	0	0	0	0	0	0
1/15/2025 11:56	43801	SWIL_T1	1	1	0	5	4.7	-0.3	0	0	0	0	0	0	0	0
1/15/2025 11:56	43802	SWIL_T1	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
1/15/2025 11:57	43801	SWIL_T1	1	1	0	5	4.7	-0.3	0	0	0	0	0	0	0	0
1/15/2025 11:57	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 12:02	54505	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/15/2025 12:02	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-0.98	1	1	0	600	600	0
1/15/2025 12:03	53501	EVIL_T2	2	2	0	0.85	0.7	-0.15	-1.28	-1.4	2	2	0	1200	1200	0
1/15/2025 12:03	53502	EVIL_T2	12	0	-12	0.52	0	-0.52	0	0	0	0	0	0	0	0
1/15/2025 12:04	52004	LING_T2	2	2	0	5.7	5.6	-0.1	0.35	0.35	0	0	0	0	0	0
1/15/2025 12:05	52004	LING_T2	2	2	0	5.7	5.6	-0.1	0.35	0.35	0	0	0	0	0	0
1/15/2025 12:06	57205	ROSS_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
1/15/2025 12:06	57201	ROSS_T1	0	0	0	0	0	0	-0.48	-0.54	0	0	0	0	0	0
1/15/2025 12:07	57201	ROSS_T1	0	0	0	0	0	0	-0.48	-0.54	0	0	0	0	0	0
1/15/2025 12:07	57205	ROSS_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
1/15/2025 12:10	67401	WAKE_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/15/2025 12:10	67402	WAKE_T2	2	0	-2	0.2	0	-0.2	0.71	0.75	0	0	0	0	0	0
1/15/2025 12:11	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 12:14	42802	SELI_T1	0	0	0	0	0	0	-1.54	-1.58	0	0	0	0	0	0
1/15/2025 12:15	64305	LINC_T1	1	2	1	0.4	0.15	-0.25	-0.37	-0.35	0	0	0	0	0	0
1/15/2025 12:15	42802	SELI_T1	0	0	0	0	0	0	-1.54	-1.58	0	0	0	0	0	0
1/15/2025 12:15	20601	GRWO_T2	40	15	-25	0.53	0.73	0.2	0.7	0.57	0	0	0	0	0	0
1/15/2025 12:16	63305	GREE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/15/2025 12:16	63306	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/15/2025 12:16	63303	GREE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 12:16	63302	GREE_T1	0	0	0	0	0	0	0.62	0.56	0	0	0	0	0	0
1/15/2025 12:16	13302	ORVI_T2	2	11	9	0.1	0.15	0.05	1.55	1.57	0	0	0	0	0	0
1/15/2025 12:20	43201	MVIL_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
1/15/2025 12:21	13503	MCMI_T2	0	0	0	0	0	0	0.4	0.33	0	0	0	0	0	0
1/15/2025 12:21	64305	LINC_T1	1	2	1	0.4	0.15	-0.25	-0.37	-0.35	0	0	0	0	0	0
1/15/2025 12:22	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 12:23	67001	STHI_T2	2	4	2	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
1/15/2025 12:23	67002	STHI_T2	1	8	7	0.2	0.34	0.14	0	0	0	0	0	0	0	0
1/15/2025 12:24	67002	STHI_T2	1	8	7	0.2	0.34	0.14	1.32	1.38	0	0	0	0	0	0
1/15/2025 12:24	43304	WATS_T2	0	0	0	0	0	0	0.11	0	0	0	0	0	0	0
1/15/2025 12:24	67001	STHI_T2	2	4	2	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
1/15/2025 12:25	67001	STHI_T2	2	4	2	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
1/15/2025 12:25	67002	STHI_T2	1	8	7	0.2	0.34	0.14	1.32	1.38	0	0	0	0	0	0
1/15/2025 12:25	67402	WAKE_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
1/15/2025 12:25	67401	WAKE_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/15/2025 12:26	67402	WAKE_T2	0	0	0	0	0	0	0.75	0.69	0	0	0	0	0	0
1/15/2025 12:26	67002	STHI_T2	1	8	7	0.2	0.34	0.14	0.66	0.69	0	0	0	0	0	0
1/15/2025 12:26	67401	WAKE_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/15/2025 12:26	67001	STHI_T2	2	4	2	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
1/15/2025 12:27	66504	SMAN_T2	2	2	0	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
1/15/2025 12:27	66502	SMAN_T2	5	4	-1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
1/15/2025 12:27	66501	SMAN_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
1/15/2025 12:27	45501	DERR_T2	0	2	2	0	0	0	0.59	0.6	2	2	0	1800	1800	0
1/15/2025 12:27	67001	STHI_T2	2	4	2	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
1/15/2025 12:27	66503	SMAN_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
1/15/2025 12:27	67002	STHI_T2	1	8	7	0.2	0.34	0.14	1.32	1.38	0	0	0	0	0	0
1/15/2025 12:28	41301	FISH_T1	3	3	0	1.77	1.93	0.16	-0.69	-0.69	0	0	0	0	0	0
1/15/2025 12:28	45501	DERR_T2	0	2	2	0	0	0	0.59	0.6	2	2	0	1800	1800	0
1/15/2025 12:29	48902	FOSP_T2	21	24	3	0.29	0.32	0.03	-0.08	-0.13	1	1	0	1200	1200	0
1/15/2025 12:29	67002	STHI_T2	1	8	7	0.2	0.34	0.14	0	0	0	0	0	0	0	0
1/15/2025 12:29	41301	FISH_T1	3	3	0	1.77	1.93	0.16	-0.69	-0.69	0	0	0	0	0	0
1/15/2025 12:29	67001	STHI_T2	2	4	2	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
1/15/2025 12:29	48901	FOSP_T2	6	10	4	0.3	0.32	0.02	0	0	0	0	0	0	0	0
1/15/2025 12:30	48901	FOSP_T2	10	7	-3	0.32	0.3	-0.02	0	0	0	0	0	0	0	0
1/15/2025 12:30	48902	FOSP_T2	24	13	-11	0.32	0.32	0	-0.16	-0.25	2	2	0	2400	2400	0
1/15/2025 12:30	41301	FISH_T1	3	3	0	1.93	1.9	-0.03	0	0	0	0	0	0	0	0
1/15/2025 12:31	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
1/15/2025 12:32	48901	FOSP_T2	10	7	-3	0.32	0.3	-0.02	0	0	0	0	0	0	0	0
1/15/2025 12:32	48902	FOSP_T2	24	13	-11	0.32	0.32	0	-0.08	-0.13	1	1	0	1200	1200	0
1/15/2025 12:32	41301	FISH_T1	3	3	0	1.93	1.9	-0.03	-0.69	-0.69	0	0	0	0	0	0
1/15/2025 12:33	48902	FOSP_T2	24	13	-11	0.32	0.32	0	-0.16	-0.25	2	2	0	2400	2400	0
1/15/2025 12:33	48901	FOSP_T2	10	7	-3	0.32	0.3	-0.02	0	0	0	0	0	0	0	0
1/15/2025 12:35	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 12:35	52403	GRPA_T2	145	166	21	0.51	0.57	0.06	-0.55	-0.57	0	0	0	0	0	0
1/15/2025 12:35	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/15/2025 12:35	52402	GRPA_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/15/2025 12:38	44902	SCOT_T2	3	1	-2	0.13	0.1	-0.03	-0.87	-0.88	0	0	0	0	0	0
1/15/2025 12:39	66501	SMAN_T2	2	2	0	0.3	0.55	0.25	0	0	0	0	0	0	0	0
1/15/2025 12:39	66504	SMAN_T2	1	1	0	0.1	0.2	0.1	-0.31	-0.31	0	0	0	0	0	0
1/15/2025 12:39	66502	SMAN_T2	4	4	0	0.2	0.23	0.03	0	0	0	0	0	0	0	0
1/15/2025 12:41	66501	SMAN_T2	2	2	0	0.3	0.55	0.25	0	0	0	0	0	0	0	0
1/15/2025 12:41	66504	SMAN_T2	1	1	0	0.1	0.2	0.1	-0.31	-0.31	0	0	0	0	0	0
1/15/2025 12:41	66502	SMAN_T2	4	4	0	0.2	0.23	0.03	0	0	0	0	0	0	0	0
1/15/2025 12:42	66502	SMAN_T2	4	4	0	0.2	0.23	0.03	0	0	0	0	0	0	0	0
1/15/2025 12:42	66501	SMAN_T2	2	2	0	0.3	0.55	0.25	0	0	0	0	0	0	0	0
1/15/2025 12:42	66504	SMAN_T2	1	1	0	0.1	0.2	0.1	-0.62	-0.63	0	0	0	0	0	0
1/15/2025 12:43	66504	SMAN_T2	1	1	0	0.1	0.2	0.1	-0.62	-0.63	0	0	0	0	0	0
1/15/2025 12:43	66501	SMAN_T2	2	2	0	0.3	0.55	0.25	0	0	0	0	0	0	0	0
1/15/2025 12:43	66502	SMAN_T2	4	4	0	0.2	0.23	0.03	0	0	0	0	0	0	0	0
1/15/2025 12:44	64701	LITI_T1	0	0	0	0	0	0	0.51	0.43	0	0	0	0	0	0
1/15/2025 12:44	61504	EPET_T2	0	0	0	0	0	0	-0.97	-0.96	0	0	0	0	0	0
1/15/2025 12:45	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/15/2025 12:45	29402	BELT_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
1/15/2025 12:47	67002	STHI_T2	8	5	-3	0.34	0.18	-0.16	0.69	0.66	0	0	0	0	0	0
1/15/2025 12:47	67001	STHI_T2	4	4	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
1/15/2025 12:48	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
1/15/2025 12:48	52101	MEIS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/15/2025 12:49	64801	MONE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/15/2025 12:49	64802	MONE_T2	15	10	-5	0.25	0.26	0.01	0	0	0	0	0	0	0	0
1/15/2025 12:52	64801	MONE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/15/2025 12:52	64802	MONE_T2	15	10	-5	0.25	0.26	0.01	0	0	0	0	0	0	0	0
1/15/2025 12:52	46102	MACI_T1	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
1/15/2025 12:53	64801	MONE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/15/2025 12:53	64802	MONE_T2	15	10	-5	0.25	0.26	0.01	0.12	0.1	0	0	0	0	0	0
1/15/2025 12:56	62105	ELAN_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
1/15/2025 12:56	13702	SCHN_T1	0	0	0	0	0	0	0.56	0.6	0	0	0	0	0	0
1/15/2025 12:56	10801	OHHI_T1	2	0	-2	0.7	0	-0.7	-1.85	-1.85	3	3	0	2100	2100	0
1/15/2025 12:56	62102	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/15/2025 13:00	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
1/15/2025 13:09	51201	MTON_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/15/2025 13:09	55105	WERT_T1	0	1	1	0	0.2	0.2	-0.48	-0.45	1	1	0	900	900	0
1/15/2025 13:10	42802	SELI_T1	0	0	0	0	0	0	-1.52	-1.56	0	0	0	0	0	0
1/15/2025 13:10	55105	WERT_T1	0	1	1	0	0.2	0.2	-0.48	-0.45	1	1	0	900	900	0
1/15/2025 13:11	54203	PENN_T1	19	19	0	1.02	0.97	-0.05	0	0	0	0	0	0	0	0
1/15/2025 13:11	54201	PENN_T1	9	10	1	1.13	0.94	-0.19	-0.44	0.86	0	0	0	0	0	0
1/15/2025 13:12	43402	BENT_T1	1	0	-1	0.1	0	-0.1	-1.8	-1.8	2	2	0	1800	1800	0
1/15/2025 13:19	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 13:22	52502	PROG_T2	1	1	0	0.2	0.1	-0.1	-0.47	-0.48	1	1	0	900	900	0
1/15/2025 13:22	65702	RVIL_T2	0	0	0	0	0	0	-1.35	-1.42	1	1	0	600	600	0
1/15/2025 13:23	53502	EVIL_T2	12	1	-11	0.82	0	-0.82	0	0	0	0	0	0	0	0
1/15/2025 13:23	53501	EVIL_T2	2	2	0	0.4	0.4	0	-1.29	-1.28	2	2	0	1200	1200	0
1/15/2025 13:24	14801	TREI_T2	1	2	1	0.2	0.65	0.45	0.6	0.64	0	0	0	0	0	0
1/15/2025 13:25	65702	RVIL_T2	0	0	0	0	0	0	-2.7	-2.85	2	2	0	1200	1200	0
1/15/2025 13:37	54603	SUMM_T2	0	0	0	0	0	0	-0.26	-0.29	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/15/2025 13:37	42802	SELI_T1	0	0	0	0	0	0	-1.55	-1.59	0	0	0	0	0	0
1/15/2025 13:37	54601	SUMM_T2	2	3	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
1/15/2025 13:38	24204	PROV_T3	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
1/15/2025 13:38	24201	PROV_T3	3	3	0	5.6	5.5	-0.1	-1.34	-1.35	0	0	0	0	0	0
1/15/2025 13:41	54601	SUMM_T2	2	3	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
1/15/2025 13:41	54603	SUMM_T2	0	0	0	0	0	0	-0.26	-0.29	1	1	0	900	900	0
1/15/2025 13:42	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 13:51	57205	ROSS_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
1/15/2025 13:51	57203	ROSS_T1	0	0	0	0	0	0	-0.11	-0.14	0	0	0	0	0	0
1/15/2025 13:51	57201	ROSS_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/15/2025 13:52	14705	TREX_T1	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
1/15/2025 13:52	14704	TREX_T1	1	1	0	4.3	4.4	0.1	0	0	0	0	0	0	0	0
1/15/2025 13:54	13702	SCHN_T1	0	0	0	0	0	0	0.56	0.61	0	0	0	0	0	0
1/15/2025 13:54	20601	GRWO_T2	26	55	29	0.6	0.58	-0.02	0.66	0.64	0	0	0	0	0	0
1/15/2025 13:54	20603	GRWO_T2	4	1	-3	0.53	0	-0.53	0	0	0	0	0	0	0	0
1/15/2025 13:59	61801	EELI_T2	2	2	0	0.35	0.9	0.55	0	0	0	0	0	0	0	0
1/15/2025 13:59	61802	EELI_T2	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
1/15/2025 14:10	14801	TREI_T2	3	2	-1	0.5	1.1	0.6	0.65	0.6	0	0	0	0	0	0
1/15/2025 14:15	44302	BEAV_T2	0	16	16	0	0.16	0.16	0	0	0	0	0	0	0	0
1/15/2025 14:15	44301	BEAV_T2	1	1	0	1.6	0.1	-1.5	0	0	0	0	0	0	0	0
1/15/2025 14:30	44301	BEAV_T2	0	1	1	0	0.1	0.1	-0.11	-0.68	1	1	0	600	600	0
1/15/2025 14:30	44302	BEAV_T2	1	17	16	0.3	0.16	-0.14	0	0	0	0	0	0	0	0
1/15/2025 14:31	63803	HEMP_T1	1	5	4	0.8	0.28	-0.52	0	0	0	0	0	0	0	0
1/15/2025 14:31	63804	HEMP_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
1/15/2025 14:31	63801	HEMP_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/15/2025 14:31	63802	HEMP_T1	0	0	0	0	0	0	0.19	0.24	0	0	0	0	0	0
1/15/2025 14:32	58401	MORO_T1	0	0	0	0	0	0	-0.9	-0.94	1	1	0	600	600	0
1/15/2025 14:33	44301	BEAV_T2	0	1	1	0	0.1	0.1	-0.11	-0.68	1	1	0	600	600	0
1/15/2025 14:33	44302	BEAV_T2	1	17	16	0.3	0.16	-0.14	0	0	0	0	0	0	0	0
1/15/2025 14:33	58401	MORO_T1	0	0	0	0	0	0	-0.9	-0.94	1	1	0	600	600	0
1/15/2025 14:34	67303	WYOM_T2	0	0	0	0	0	0	-0.46	-0.52	0	0	0	0	0	0
1/15/2025 14:38	55002	NEWP_T1	2	2	0	0.75	0.3	-0.45	-0.21	-0.2	0	0	0	0	0	0
1/15/2025 14:41	54601	SUMM_T2	4	4	0	0.25	0.33	0.08	-1.8	-1.77	2	2	0	2100	2100	0
1/15/2025 14:49	13503	MCMI_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
1/15/2025 14:56	14801	TREI_T2	0	1	1	0	0	0	0.69	0.64	0	0	0	0	0	0
1/15/2025 14:58	67002	STHI_T2	0	4	4	0	0.1	0.1	0.64	0.64	0	0	0	0	0	0
1/15/2025 14:58	67001	STHI_T2	3	2	-1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
1/15/2025 15:00	47203	FAXO_T2	1	1	0	1.2	1.1	-0.1	-1.04	-1	0	0	0	0	0	0
1/15/2025 15:00	23401	HONE_T2	2	3	1	0.25	0.7	0.45	0.11	0.17	0	0	0	0	0	0
1/15/2025 15:01	23401	HONE_T2	2	3	1	0.25	0.7	0.45	0.11	0.17	0	0	0	0	0	0
1/15/2025 15:12	13704	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/15/2025 15:12	13701	SCHN_T2	0	0	0	0	0	0	0.01	0	1	1	0	600	600	0
1/15/2025 15:18	14204	EALL_T2	0	0	0	0	0	0	-0.45	-0.43	1	1	0	1200	1200	0
1/15/2025 15:20	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/15/2025 15:20	52403	GRPA_T2	3	6	3	0.23	0.2	-0.03	-0.05	-0.01	0	0	0	0	0	0
1/15/2025 15:20	52402	GRPA_T2	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/15/2025 15:22	64902	MILL_T2	0	0	0	0	0	0	-0.65	-0.66	1	1	0	900	900	0
1/15/2025 15:30	16302	ALPA_T2	0	0	0	0	0	0	-0.63	-0.45	0	0	0	0	0	0
1/15/2025 15:38	13704	SCHN_T2	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
1/15/2025 15:50	63501	HEID_TBK1-2	87	81	-6	0.4	0.39	-0.01	0	0	1	1	0	900	900	0
1/15/2025 15:55	42501	ALTA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 15:55	42503	ALTA_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
1/15/2025 15:55	42504	ALTA_T2	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
1/15/2025 15:59	22002	BOHE_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
1/15/2025 16:16	66901	SHIL_T2	0	0	0	0	0	0	-1.74	-1.72	1	1	0	1200	1200	0
1/15/2025 16:33	40101	HUNT_T2	577	514	-63	2.2	1.74	-0.46	-1.43	-1.53	0	0	0	0	0	0
1/15/2025 16:39	41903	REED_T1	0	0	0	0	0	0	-0.08	-0.05	1	1	0	1200	1200	0
1/15/2025 16:39	41901	REED_T1	8	9	1	0.46	1.13	0.67	0	0	0	0	0	0	0	0
1/15/2025 16:43	60701	BREC_T1	0	0	0	0	0	0	-0.37	-0.36	1	1	0	600	600	0
1/15/2025 18:50	43802	SWIL_T1	0	0	0	0	0	0	-0.06	-0.09	1	1	0	600	600	0
1/15/2025 18:50	43801	SWIL_T1	2	2	0	2.95	3	0.05	0	0	0	0	0	0	0	0
1/15/2025 18:54	46002	BERW_T2	0	0	0	0	0	0	-1.01	-1	1	1	0	900	900	0
1/15/2025 18:54	46004	BERW_T2	6	10	4	0.73	0.2	-0.53	0	0	0	0	0	0	0	0
1/15/2025 18:56	47203	FAXO_T2	1	1	0	2.7	1.8	-0.9	-0.99	-1.01	0	0	0	0	0	0
1/15/2025 18:56	10805	CHHI_T2	7	8	1	2.97	3.19	0.22	-1.09	-1.1	1	1	0	600	600	0
1/15/2025 18:56	26701	HEML_T1	3	6	3	0.97	1.2	0.23	0	0	0	0	0	0	0	0
1/15/2025 18:56	13701	SCHN_T2	0	0	0	0	0	0	0.06	0.07	1	1	0	600	600	0
1/15/2025 18:56	13704	SCHN_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
1/15/2025 18:56	26703	HEML_T1	2	3	1	0.25	0.7	0.45	-0.59	-0.57	1	1	0	600	600	0
1/15/2025 18:57	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 18:57	43801	SWIL_T1	2	2	0	2.95	3	0.05	0	0	0	0	0	0	0	0
1/15/2025 18:58	14801	TREI_T2	3	1	-2	1.27	0	-1.27	0.81	0.78	0	0	0	0	0	0
1/15/2025 18:58	43301	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 18:58	11103	EGYP_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 18:58	26702	HEML_T2	2	2	0	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
1/15/2025 18:58	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 18:58	26704	HEML_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
1/15/2025 18:58	43302	WATS_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/15/2025 18:58	43304	WATS_T2	18	22	4	0.46	0.4	-0.06	0	0	0	0	0	0	0	0
1/15/2025 18:58	13202	PALM_T2	4	2	-2	0.73	0	-0.73	-1.78	-1.75	4	4	0	3600	3600	0
1/15/2025 18:58	11101	EGYP_T1	0	0	0	0	0	0	-0.66	-0.67	1	1	0	1200	1200	0
1/15/2025 18:58	11104	EGYP_T1	1	0	-1	0.1	0	-0.1	-0.36	-0.41	1	1	0	900	900	0
1/15/2025 18:59	43402	BENT_T1	3	0	-3	0.63	0	-0.63	0.05	0.05	0	0	0	0	0	0
1/15/2025 18:59	46101	MACI_T2	0	0	0	0	0	0	-0.52	-0.5	1	1	0	1200	1200	0
1/15/2025 18:59	43401	BENT_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/15/2025 19:00	16302	ALPA_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
1/15/2025 19:00	24105	EHAZ_T1	35	30	-5	1.62	1.24	-0.38	0	0	0	0	0	0	0	0
1/15/2025 19:00	24101	EHAZ_T1	60	73	13	1.73	1.62	-0.11	0	0	0	0	0	0	0	0
1/15/2025 19:00	46802	HEPB_T1	1	1	0	1	1	0	-1.18	-1.21	0	0	0	0	0	0
1/15/2025 19:00	24102	EHAZ_T1	36	34	-2	1.22	0.77	-0.45	-0.14	-0.11	0	0	0	0	0	0
1/15/2025 19:00	14204	EALL_T2	0	0	0	0	0	0	-0.44	-0.43	1	1	0	1200	1200	0
1/15/2025 19:00	24103	EHAZ_T1	13	13	0	1.35	0.86	-0.49	0	0	0	0	0	0	0	0
1/15/2025 19:01	29402	BELT_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
1/15/2025 19:01	46203	DANV_T2	11	20	9	0.74	0.78	0.04	-1.25	-1.23	0	0	0	0	0	0
1/15/2025 19:01	45502	DERR_T2	2	6	4	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
1/15/2025 19:01	45501	DERR_T2	5	0	-5	0.8	0	-0.8	1.3	1.18	4	4	0	3600	3600	0
1/15/2025 19:01	17802	GILB_T1	0	1	1	0	0	0	0.28	0.26	0	0	0	0	0	0
1/15/2025 19:02	17401	FOHI_T1	0	0	0	0	0	0	-0.95	-0.99	0	0	0	0	0	0
1/15/2025 19:02	14801	TREI_T2	0	2	2	0	0.1	0.1	0.81	0.78	0	0	0	0	0	0
1/15/2025 19:02	13202	PALM_T2	0	6	6	0	0.1	0.1	-1.78	-1.75	4	4	0	3600	3600	0
1/15/2025 19:03	41301	FISH_T1	1	1	0	1.9	1.8	-0.1	-0.65	-0.67	0	0	0	0	0	0
1/15/2025 19:03	45502	DERR_T2	2	6	4	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
1/15/2025 19:03	45501	DERR_T2	5	0	-5	0.8	0	-0.8	0.65	0.59	2	2	0	1800	1800	0
1/15/2025 19:04	20603	GRWO_T2	2	2	0	0.75	0	-0.75	-0.4	-0.39	1	1	0	900	900	0
1/15/2025 19:04	46203	DANV_T2	11	20	9	0.74	0.78	0.04	0	0	0	0	0	0	0	0
1/15/2025 19:04	13702	SCHN_T1	0	0	0	0	0	0	0.72	0.75	0	0	0	0	0	0
1/15/2025 19:04	46206	DANV_T2	0	0	0	0	0	0	0.57	0.5	2	2	0	2100	2100	0
1/15/2025 19:04	20601	GRWO_T2	40	57	17	0.66	0.62	-0.04	0	0	0	0	0	0	0	0
1/15/2025 19:05	13503	MCMI_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
1/15/2025 19:05	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:06	40101	HUNT_T2	712	776	64	2.26	2.06	-0.2	-1.45	-1.39	0	0	0	0	0	0
1/15/2025 19:06	11103	EGYP_T1	0	4	4	0	0.77	0.77	0	0	0	0	0	0	0	0
1/15/2025 19:06	43801	SWIL_T1	2	2	0	3	2.95	-0.05	0	0	0	0	0	0	0	0
1/15/2025 19:06	11104	EGYP_T1	0	0	0	0	0	0	-0.41	-0.39	1	1	0	900	900	0
1/15/2025 19:06	66504	SMAN_T2	0	0	0	0	0	0	-0.53	-0.39	0	0	0	0	0	0
1/15/2025 19:06	16103	BING_T2	0	0	0	0	0	0	-2.84	-2.82	2	2	0	1800	1800	0
1/15/2025 19:06	66505	SMAN_T2	0	3	3	0	1.17	1.17	0	0	0	0	0	0	0	0
1/15/2025 19:06	14801	TREI_T2	0	2	2	0	0.1	0.1	0.78	0.83	0	0	0	0	0	0
1/15/2025 19:06	44902	SCOT_T2	516	418	-98	0.48	0.36	-0.12	0	0	0	0	0	0	0	0
1/15/2025 19:06	43802	SWIL_T1	0	0	0	0	0	0	-0.09	-0.06	1	1	0	600	600	0
1/15/2025 19:06	44901	SCOT_T2	25	3	-22	0.16	0.17	0.01	-0.23	0.07	0	0	0	0	0	0
1/15/2025 19:06	16102	BING_T2	1	0	-1	0.1	0	-0.1	-1.29	-1.28	1	1	0	1200	1200	0
1/15/2025 19:06	23401	HONE_T2	2	6	4	0.45	0.2	-0.25	-0.05	-0.04	0	0	0	0	0	0
1/15/2025 19:07	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/15/2025 19:07	63403	HONY_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
1/15/2025 19:07	42701	AUGU_T1	6	6	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/15/2025 19:07	45501	DERR_T2	5	0	-5	0.8	0	-0.8	0.59	0.64	2	2	0	1800	1800	0
1/15/2025 19:07	59202	THOM_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
1/15/2025 19:07	63402	HONY_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/15/2025 19:07	42802	SELI_T1	0	0	0	0	0	0	-1.55	-1.58	0	0	0	0	0	0
1/15/2025 19:07	59201	THOM_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
1/15/2025 19:07	45502	DERR_T2	2	6	4	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
1/15/2025 19:07	40101	HUNT_T2	712	776	64	2.26	2.06	-0.2	-1.39	-1.45	0	0	0	0	0	0
1/15/2025 19:07	67303	WYOM_T2	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
1/15/2025 19:07	40802	EXCH_T2	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
1/15/2025 19:08	16102	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/15/2025 19:08	54201	PENN_T1	7	7	0	0.59	0.76	0.17	0.85	0.87	0	0	0	0	0	0
1/15/2025 19:08	13702	SCHN_T1	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
1/15/2025 19:08	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:08	11103	EGYP_T1	0	4	4	0	0.77	0.77	0.53	0.54	0	0	0	0	0	0
1/15/2025 19:08	54203	PENN_T1	18	18	0	0.86	1.02	0.16	0	0	0	0	0	0	0	0
1/15/2025 19:08	10801	CHHI_T1	0	2	2	0	0	0	-1.93	-1.94	3	3	0	2100	2100	0
1/15/2025 19:08	60701	BREC_T1	1	2	1	0.5	0.35	-0.15	-0.33	-0.33	1	1	0	600	600	0
1/15/2025 19:08	24202	PROV_T4	0	0	0	0	0	0	-0.7	-0.74	1	1	0	1200	1200	0
1/15/2025 19:08	46203	DANV_T2	11	20	9	0.74	0.78	0.04	-1.23	-1.25	0	0	0	0	0	0
1/15/2025 19:08	11101	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:08	23401	HONE_T2	2	6	4	0.45	0.2	-0.25	-0.05	-0.04	0	0	0	0	0	0
1/15/2025 19:08	22002	BOHE_T1	0	0	0	0	0	0	0.43	0.46	0	0	0	0	0	0
1/15/2025 19:09	20603	GRWO_T2	2	2	0	0.75	0	-0.75	0	0	0	0	0	0	0	0
1/15/2025 19:09	48902	FOSP_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
1/15/2025 19:09	43402	BENT_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
1/15/2025 19:09	66901	SHIL_T2	70	62	-8	0.17	0.14	-0.03	-1.63	-1.68	1	1	0	1200	1200	0
1/15/2025 19:09	55002	NEWP_T1	2	2	0	0.6	0.5	-0.1	-0.14	-0.14	0	0	0	0	0	0
1/15/2025 19:09	42504	ALTA_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
1/15/2025 19:09	46102	MACI_T1	0	0	0	0	0	0	0.7	0.71	0	0	0	0	0	0
1/15/2025 19:09	67002	STHI_T2	73	87	14	0.21	0.22	0.01	2.04	2.01	0	0	0	0	0	0
1/15/2025 19:09	66903	SHIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/15/2025 19:09	20601	GRWO_T2	40	57	17	0.66	0.62	-0.04	0.2	0.18	0	0	0	0	0	0
1/15/2025 19:09	67001	STHI_T2	298	313	15	0.19	0.2	0.01	0	0	0	0	0	0	0	0
1/15/2025 19:09	46203	DANV_T2	11	20	9	0.74	0.78	0.04	-1.23	-1.25	0	0	0	0	0	0
1/15/2025 19:09	43401	BENT_T1	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/15/2025 19:09	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/15/2025 19:09	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/15/2025 19:09	22601	KIMB_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:09	42503	ALTA_T2	4	1	-3	0.5	0.1	-0.4	-0.45	-0.52	0	0	0	0	0	0
1/15/2025 19:09	41301	FISH_T1	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
1/15/2025 19:09	66902	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/15/2025 19:09	59101	WALK_T2	0	0	0	0	0	0	1.1	1.07	1	1	0	600	600	0
1/15/2025 19:10	44901	SCOT_T2	25	3	-22	0.16	0.17	0.01	0	0	0	0	0	0	0	0
1/15/2025 19:10	46206	DANV_T2	0	0	0	0	0	0	0.5	0.51	2	2	0	2100	2100	0
1/15/2025 19:10	43202	MVIL_T2	13	11	-2	0.82	0.6	-0.22	0	0	0	0	0	0	0	0
1/15/2025 19:10	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
1/15/2025 19:10	46203	DANV_T2	11	20	9	0.74	0.78	0.04	0	0	0	0	0	0	0	0
1/15/2025 19:10	63501	HEID_TBK1-2	64	83	19	0.36	0.46	0.1	0	0	0	0	0	0	0	0
1/15/2025 19:10	22601	KIMB_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:10	66504	SMAN_T2	0	0	0	0	0	0	-0.2	-0.25	0	0	0	0	0	0
1/15/2025 19:10	44902	SCOT_T2	516	418	-98	0.48	0.36	-0.12	-0.84	-0.84	0	0	0	0	0	0
1/15/2025 19:10	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:10	49803	UNIV_T1	1	1	0	6.6	6.5	-0.1	-0.87	-0.86	0	0	0	0	0	0
1/15/2025 19:10	10801	CHHI_T1	0	2	2	0	0	0	-3.87	-3.89	6	6	0	4200	4200	0
1/15/2025 19:10	43201	MVIL_T2	8	12	4	0.33	0.32	-0.01	-0.31	-0.3	0	0	0	0	0	0
1/15/2025 19:10	48902	FOSP_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
1/15/2025 19:10	66505	SMAN_T2	0	3	3	0	1.17	1.17	0	0	0	0	0	0	0	0
1/15/2025 19:11	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:11	53502	EVIL_T2	11	0	-11	0.44	0	-0.44	0	0	0	0	0	0	0	0
1/15/2025 19:11	53501	EVIL_T2	0	2	2	0	0.6	0.6	-2.89	-2.72	4	4	0	2400	2400	0
1/15/2025 19:11	62105	ELAN_T1	1	1	0	0.1	0.1	0	0.59	0.6	0	0	0	0	0	0
1/15/2025 19:11	40701	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:11	67001	STHI_T2	298	313	15	0.19	0.2	0.01	0	0	0	0	0	0	0	0
1/15/2025 19:11	20801	LOPO_T1	89	117	28	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
1/15/2025 19:11	44902	SCOT_T2	516	418	-98	0.48	0.36	-0.12	-1.68	-1.68	0	0	0	0	0	0
1/15/2025 19:11	13503	MCMI_T2	0	0	0	0	0	0	-0.44	-0.41	0	0	0	0	0	0
1/15/2025 19:11	57201	ROSS_T1	0	0	0	0	0	0	-0.45	-0.72	0	0	0	0	0	0
1/15/2025 19:11	41301	FISH_T1	1	1	0	1.9	1.8	-0.1	-0.67	-0.65	0	0	0	0	0	0
1/15/2025 19:11	20802	LOPO_T1	19	21	2	0.38	0.52	0.14	-0.87	-0.9	1	1	0	600	600	0
1/15/2025 19:11	66505	SMAN_T2	0	3	3	0	1.17	1.17	0	0	0	0	0	0	0	0
1/15/2025 19:11	67002	STHI_T2	73	87	14	0.21	0.22	0.01	1.36	1.34	0	0	0	0	0	0
1/15/2025 19:11	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/15/2025 19:11	44901	SCOT_T2	25	3	-22	0.16	0.17	0.01	0	0	0	0	0	0	0	0
1/15/2025 19:11	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:11	40802	EXCH_T2	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
1/15/2025 19:11	44301	BEAV_T2	3	5	2	1.2	0.2	-1	-0.44	-0.14	1	1	0	600	600	0
1/15/2025 19:12	54505	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/15/2025 19:12	20603	GRWO_T2	2	2	0	0.75	0	-0.75	0	0	0	0	0	0	0	0
1/15/2025 19:12	54502	ENOL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/15/2025 19:12	44901	SCOT_T2	25	3	-22	0.16	0.17	0.01	0.07	0.12	0	0	0	0	0	0
1/15/2025 19:12	57205	ROSS_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
1/15/2025 19:12	54506	ENOL_T2	0	0	0	0	0	0	0.52	0.47	1	1	0	600	600	0
1/15/2025 19:12	53502	EVIL_T2	11	0	-11	0.44	0	-0.44	0	0	0	0	0	0	0	0
1/15/2025 19:12	20601	GRWO_T2	40	57	17	0.66	0.62	-0.04	0.2	0.18	0	0	0	0	0	0
1/15/2025 19:12	67001	STHI_T2	298	313	15	0.19	0.2	0.01	0	0	0	0	0	0	0	0
1/15/2025 19:12	42701	AUGU_T1	6	6	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/15/2025 19:12	23401	HONE_T2	2	6	4	0.45	0.2	-0.25	-0.05	-0.04	0	0	0	0	0	0
1/15/2025 19:12	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:12	44902	SCOT_T2	516	418	-98	0.48	0.36	-0.12	0	0	0	0	0	0	0	0
1/15/2025 19:12	57203	ROSS_T1	0	0	0	0	0	0	-0.26	-0.31	0	0	0	0	0	0
1/15/2025 19:12	53501	EVIL_T2	0	2	2	0	0.6	0.6	-1.44	-1.36	2	2	0	1200	1200	0
1/15/2025 19:12	61504	EPET_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
1/15/2025 19:12	64802	MONE_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/15/2025 19:12	67002	STHI_T2	73	87	14	0.21	0.22	0.01	2.04	2.01	0	0	0	0	0	0
1/15/2025 19:13	54502	ENOL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/15/2025 19:13	59101	WALK_T2	0	0	0	0	0	0	1.1	1.07	1	1	0	600	600	0
1/15/2025 19:13	43304	WATS_T2	3	25	22	0.4	0.47	0.07	0.02	0.09	0	0	0	0	0	0
1/15/2025 19:13	55002	NEWP_T1	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/15/2025 19:13	42701	AUGU_T1	6	6	0	0.5	0.4	-0.1	0	0	2	2	0	1800	1800	0
1/15/2025 19:13	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	-0.7	-0.65	1	1	0	600	600	0
1/15/2025 19:13	66504	SMAN_T2	0	0	0	0	0	0	-0.2	-0.25	0	0	0	0	0	0
1/15/2025 19:13	49803	UNIV_T1	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
1/15/2025 19:13	65205	PRIN_T1	1	2	1	1.5	4.2	2.7	0	0	0	0	0	0	0	0
1/15/2025 19:13	64902	MILL_T2	0	0	0	0	0	0	-1.23	-1.21	1	1	0	900	900	0
1/15/2025 19:13	48902	FOSP_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
1/15/2025 19:13	65203	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:13	49804	UNIV_T1	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
1/15/2025 19:13	54505	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/15/2025 19:13	44801	EDAN_T2	2	4	2	0.8	0.8	0	-0.36	-0.35	0	0	0	0	0	0
1/15/2025 19:13	66505	SMAN_T2	0	3	3	0	1.17	1.17	0	0	0	0	0	0	0	0
1/15/2025 19:13	44802	EDAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/15/2025 19:13	52502	PROG_T2	0	0	0	0	0	0	-0.26	-0.26	1	1	0	900	900	0
1/15/2025 19:13	13503	MCMI_T2	0	0	0	0	0	0	-0.44	-0.41	0	0	0	0	0	0
1/15/2025 19:13	65202	PRIN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/15/2025 19:13	43302	WATS_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/15/2025 19:13	54504	ENOL_T2	0	0	0	0	0	0	-0.92	-0.93	1	1	0	600	600	0
1/15/2025 19:14	40101	HUNT_T2	712	776	64	2.26	2.06	-0.2	-1.39	-1.45	0	0	0	0	0	0
1/15/2025 19:14	44301	BEAV_T2	3	5	2	1.2	0.2	-1	-0.44	-0.14	1	1	0	600	600	0
1/15/2025 19:14	63804	HEMP_T1	9	3	-6	1.19	6.7	5.51	0	0	0	0	0	0	0	0
1/15/2025 19:14	59201	THOM_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
1/15/2025 19:14	67002	STHI_T2	73	87	14	0.21	0.22	0.01	0	0	0	0	0	0	0	0
1/15/2025 19:14	64802	MONE_T2	0	2	2	0	0.1	0.1	0.11	0.11	0	0	0	0	0	0
1/15/2025 19:14	58402	MORO_T1	1	0	-1	0.1	0	-0.1	-0.17	0.02	4	3	-1	2250	1950	-300
1/15/2025 19:14	67001	STHI_T2	298	313	15	0.19	0.2	0.01	0	0	0	0	0	0	0	0
1/15/2025 19:14	42802	SELI_T1	0	0	0	0	0	0	-1.55	-1.58	0	0	0	0	0	0
1/15/2025 19:14	65702	RVIL_T2	0	0	0	0	0	0	-1.46	-1.47	1	1	0	600	600	0
1/15/2025 19:14	59101	WALK_T2	0	0	0	0	0	0	1.1	1.07	1	1	0	600	600	0
1/15/2025 19:14	63501	HEID_TBK1-2	64	83	19	0.36	0.46	0.1	0	0	2	2	0	1800	1800	0
1/15/2025 19:14	59202	THOM_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
1/15/2025 19:14	13702	SCHN_T1	0	0	0	0	0	0	1.5	1.5	0	0	0	0	0	0
1/15/2025 19:14	63802	HEMP_T1	0	0	0	0	0	0	0.24	0.14	0	0	0	0	0	0
1/15/2025 19:15	48902	FOSP_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
1/15/2025 19:15	67002	STHI_T2	82	77	-5	0.22	0.21	-0.01	1.36	1.34	0	0	0	0	0	0
1/15/2025 19:15	67402	WAKE_T2	0	0	0	0	0	0	-0.25	-0.24	1	1	0	600	600	0
1/15/2025 19:15	64802	MONE_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/15/2025 19:15	67001	STHI_T2	285	276	-9	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
1/15/2025 19:15	42802	SELI_T1	0	0	0	0	0	0	-1.55	-1.58	0	0	0	0	0	0
1/15/2025 19:15	41902	REED_T1	83	46	-37	0.68	0.62	-0.06	0.43	0.46	1	1	0	900	900	0
1/15/2025 19:15	64801	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:15	56501	ROCK_T2	1	1	0	1	1.2	0.2	-1.48	-1.42	0	0	0	0	0	0
1/15/2025 19:15	41901	REED_T1	7	10	3	0.71	0.87	0.16	0	0	0	0	0	0	0	0
1/15/2025 19:16	40802	EXCH_T2	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
1/15/2025 19:16	66203	SISP_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/15/2025 19:16	55002	NEWP_T1	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/15/2025 19:16	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:16	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
1/15/2025 19:16	48902	FOSP_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
1/15/2025 19:16	53501	EVIL_T2	1	1	0	0.9	0.3	-0.6	-1.44	-1.36	2	2	0	1200	1200	0
1/15/2025 19:16	58202	NEWV_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
1/15/2025 19:16	55001	NEWP_T1	0	0	0	0	0	0	-0.7	-0.65	1	1	0	600	600	0
1/15/2025 19:16	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/15/2025 19:16	66201	SISP_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
1/15/2025 19:16	55101	WERT_T1	0	0	0	0	0	0	-1.66	-1.7	2	2	0	1500	1500	0
1/15/2025 19:16	40201	BEGA_T2	4	6	2	0.73	1.75	1.02	0	0	0	0	0	0	0	0
1/15/2025 19:16	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:16	13501	MCMI_T1	1	2	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/15/2025 19:16	52101	MEIS_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/15/2025 19:16	65702	RVIL_T2	0	0	0	0	0	0	-1.46	-1.47	1	1	0	600	600	0
1/15/2025 19:17	46203	DANV_T2	13	22	9	0.77	0.84	0.07	-1.23	-1.25	0	0	0	0	0	0
1/15/2025 19:17	52101	MEIS_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/15/2025 19:17	41903	REED_T1	0	0	0	0	0	0	0.05	0.06	1	1	0	1200	1200	0
1/15/2025 19:17	44905	SCOT_T1	14	19	5	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
1/15/2025 19:17	65702	RVIL_T2	0	0	0	0	0	0	-1.46	-1.47	1	1	0	600	600	0
1/15/2025 19:17	41901	REED_T1	7	10	3	0.71	0.87	0.16	0	0	0	0	0	0	0	0
1/15/2025 19:17	48902	FOSP_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
1/15/2025 19:17	46206	DANV_T2	0	0	0	0	0	0	0.5	0.51	2	2	0	2100	2100	0
1/15/2025 19:17	41902	REED_T1	83	46	-37	0.68	0.62	-0.06	0	0	0	0	0	0	0	0
1/15/2025 19:17	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:17	45802	HEGI_T2	48	48	0	2.03	1.91	-0.12	0	0	0	0	0	0	0	0
1/15/2025 19:17	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
1/15/2025 19:17	52402	GRPA_T2	3	6	3	1.03	0.35	-0.68	-0.9	-0.88	0	0	0	0	0	0
1/15/2025 19:17	54603	SUMM_T2	0	0	0	0	0	0	-0.25	-0.31	1	1	0	900	900	0
1/15/2025 19:17	52401	GRPA_T2	0	10	10	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:17	66505	SMAN_T2	3	3	0	0.6	1.17	0.57	0	0	0	0	0	0	0	0
1/15/2025 19:17	52403	GRPA_T2	4	14	10	0.75	0.53	-0.22	0.07	0.06	0	0	0	0	0	0
1/15/2025 19:17	52502	PROG_T2	0	0	0	0	0	0	-0.26	-0.26	1	1	0	900	900	0
1/15/2025 19:18	40602	PIGR_T1	6	0	-6	0.43	0	-0.43	-1.43	-1.45	1	1	0	600	600	0
1/15/2025 19:18	40101	HUNT_T2	771	716	-55	2.01	2.22	0.21	-1.39	-1.45	0	0	0	0	0	0
1/15/2025 19:19	53501	EVIL_T2	1	1	0	0.9	0.3	-0.6	-1.44	-1.36	2	2	0	1200	1200	0
1/15/2025 19:19	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:19	67002	STHI_T2	82	77	-5	0.22	0.21	-0.01	0.68	0.67	0	0	0	0	0	0
1/15/2025 19:19	67001	STHI_T2	285	276	-9	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
1/15/2025 19:19	52006	LING_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
1/15/2025 19:19	52004	LING_T2	2	2	0	5.5	5.5	0	0.29	0.28	0	0	0	0	0	0
1/15/2025 19:19	54601	SUMM_T2	0	0	0	0	0	0	-1.58	-1.62	2	2	0	2100	2100	0
1/15/2025 19:19	44301	BEAV_T2	1	6	5	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/15/2025 19:20	52006	LING_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
1/15/2025 19:20	67402	WAKE_T2	0	0	0	0	0	0	-0.25	-0.24	1	1	0	600	600	0
1/15/2025 19:20	53501	EVIL_T2	1	1	0	0.9	0.3	-0.6	-1.44	-1.36	2	2	0	1200	1200	0
1/15/2025 19:20	21501	CEAV_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
1/15/2025 19:20	52004	LING_T2	2	2	0	5.5	5.5	0	0.29	0.28	0	0	0	0	0	0
1/15/2025 19:20	66505	SMAN_T2	3	3	0	0.6	1.17	0.57	0	0	0	0	0	0	0	0
1/15/2025 19:20	66504	SMAN_T2	0	0	0	0	0	0	-0.2	-0.25	0	0	0	0	0	0
1/15/2025 19:21	66505	SMAN_T2	3	3	0	0.6	1.17	0.57	0	0	0	0	0	0	0	0
1/15/2025 19:21	67002	STHI_T2	82	77	-5	0.22	0.21	-0.01	0.68	0.67	0	0	0	0	0	0
1/15/2025 19:21	64802	MONE_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/15/2025 19:21	55002	NEWP_T1	2	2	0	0.5	0.7	0.2	-0.14	-0.15	0	0	0	0	0	0
1/15/2025 19:21	58402	MORO_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/15/2025 19:21	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:21	55101	WERT_T1	0	0	0	0	0	0	-1.7	-1.71	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/15/2025 19:21	61001	DONV_T1	0	0	0	0	0	0	-0.11	-0.17	0	0	0	0	0	0
1/15/2025 19:21	63501	HEID_TBK1-2	81	72	-9	0.46	0.41	-0.05	0	0	1	1	0	900	900	0
1/15/2025 19:21	58401	MORO_T1	0	0	0	0	0	0	-0.87	-0.83	1	1	0	600	600	0
1/15/2025 19:21	66503	SMAN_T2	0	0	0	0	0	0	0.43	0.39	0	0	0	0	0	0
1/15/2025 19:21	67001	STHI_T2	285	276	-9	0.21	0.19	-0.02	0.18	0.17	0	0	0	0	0	0
1/15/2025 19:22	58402	MORO_T1	0	2	2	0	0.15	0.15	0.02	-0.03	3	3	0	1950	1950	0
1/15/2025 19:22	58401	MORO_T1	0	0	0	0	0	0	-0.87	-0.83	1	1	0	600	600	0
1/15/2025 19:22	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:22	64802	MONE_T2	2	0	-2	0.1	0	-0.1	0.11	0.11	0	0	0	0	0	0
1/15/2025 19:22	40602	PIGR_T1	6	0	-6	0.43	0	-0.43	-1.45	-1.44	1	1	0	600	600	0
1/15/2025 19:23	51201	MTON_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2025 19:23	63501	HEID_TBK1-2	81	72	-9	0.46	0.41	-0.05	0	0	1	1	0	900	900	0
1/15/2025 19:23	58402	MORO_T1	0	2	2	0	0.15	0.15	0.02	-0.03	3	3	0	1950	1950	0
1/15/2025 19:23	61802	EELI_T2	1	9	8	0.1	0.13	0.03	-0.13	-0.13	0	0	0	0	0	0
1/15/2025 19:23	66505	SMAN_T2	3	3	0	0.6	1.17	0.57	0	0	0	0	0	0	0	0
1/15/2025 19:23	66504	SMAN_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
1/15/2025 19:23	54603	SUMM_T2	0	0	0	0	0	0	-0.31	-0.33	1	1	0	900	900	0
1/15/2025 19:23	41301	FISH_T1	1	1	0	1.7	2	0.3	-0.65	-0.66	0	0	0	0	0	0
1/15/2025 19:23	61801	EELI_T2	5	13	8	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
1/15/2025 19:24	57201	ROSS_T1	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
1/15/2025 19:25	53501	EVIL_T2	1	1	0	0.9	0.3	-0.6	-1.36	-1.35	2	2	0	1200	1200	0
1/15/2025 19:26	63302	GREE_T1	0	0	0	0	0	0	0.4	0.32	0	0	0	0	0	0
1/15/2025 19:26	67402	WAKE_T2	0	0	0	0	0	0	-0.24	-0.27	1	1	0	600	600	0
1/15/2025 19:28	64904	MILL_T1	0	0	0	0	0	0	-0.12	-0.1	0	0	0	0	0	0
1/15/2025 19:29	55105	WERT_T1	0	0	0	0	0	0	-0.25	-0.22	1	1	0	900	900	0
1/15/2025 19:39	24201	PROV_T3	3	3	0	5.77	5.7	-0.07	-1.31	-1.3	1	1	0	1200	1200	0
1/15/2025 19:39	24204	PROV_T3	1	2	1	5.7	2.9	-2.8	0	0	0	0	0	0	0	0
1/15/2025 20:20	63305	GREE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/15/2025 20:20	63303	GREE_T1	0	1	1	0	0	0	0.33	0.28	1	1	0	600	600	0
1/15/2025 23:14	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.42	1	1	0	900	900	0
1/16/2025 0:06	14704	TREX_T1	1	1	0	3.7	2.1	-1.6	0	0	0	0	0	0	0	0
1/16/2025 0:06	14705	TREX_T1	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
1/16/2025 2:27	67002	STHI_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
1/16/2025 7:46	51804	EBEN_T2	1	2	1	4.4	1.4	-3	0	0	0	0	0	0	0	0
1/16/2025 7:46	51802	EBEN_T2	2	0	-2	0.4	0	-0.4	-0.11	-0.17	1	1	0	900	900	0
1/16/2025 7:50	26704	HEML_T2	0	1	1	0	0	0	-0.32	-0.32	0	0	0	0	0	0
1/16/2025 8:14	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/16/2025 8:14	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 8:14	16101	BING_T2	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
1/16/2025 8:26	14605	SWHI_T1	4	3	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/16/2025 8:26	14601	SWHI_T1	0	0	0	0	0	0	-1.26	-1.25	0	0	0	0	0	0
1/16/2025 8:31	23401	HONE_T2	41	45	4	0.45	0.45	0	0.21	0.21	0	0	0	0	0	0
1/16/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.47	0.41	0	0	0	0	0	0
1/16/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.59	0.5	0	0	0	0	0	0
1/16/2025 9:00	40504	CRES_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 9:00	26701	HEML_T1	14	19	5	0.69	0.74	0.05	0	0	0	0	0	0	0	0
1/16/2025 9:00	26703	HEML_T1	22	24	2	1.05	0.86	-0.19	-1.01	-0.55	2	1	-1	1800	600	-1200
1/16/2025 9:08	13704	SCHN_T2	0	0	0	0	0	0	-0.65	-0.61	0	0	0	0	0	0
1/16/2025 9:09	43304	WATS_T2	3	6	3	0.63	0.2	-0.43	0	0	0	0	0	0	0	0
1/16/2025 9:09	43301	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 9:10	44901	SCOT_T2	3	3	0	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
1/16/2025 9:10	16102	BING_T2	0	1	1	0	0.2	0.2	-1.21	-1.23	1	1	0	1200	1200	0
1/16/2025 9:10	44902	SCOT_T2	449	462	13	0.47	0.44	-0.03	-0.84	-0.78	0	0	0	0	0	0
1/16/2025 9:12	16101	BING_T2	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
1/16/2025 9:12	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/16/2025 9:16	11507	FREE_T2	273	298	25	2.95	2.85	-0.1	0.17	0.17	0	0	0	0	0	0
1/16/2025 9:16	63401	HONY_T1	0	0	0	0	0	0	0.26	0.3	1	1	0	600	600	0
1/16/2025 9:17	63401	HONY_T1	0	0	0	0	0	0	0.26	0.3	1	1	0	600	600	0
1/16/2025 9:19	26704	HEML_T2	0	0	0	0	0	0	-0.27	-0.31	0	0	0	0	0	0
1/16/2025 9:20	63401	HONY_T1	0	0	0	0	0	0	0.26	0.3	1	1	0	600	600	0
1/16/2025 9:25	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/16/2025 9:25	67002	STHI_T2	0	0	0	0	0	0	0.67	0.65	0	0	0	0	0	0
1/16/2025 9:27	60101	COCA_T1	0	0	0	0	0	0	0.01	-0.02	1	1	0	600	600	0
1/16/2025 9:28	60101	COCA_T1	0	0	0	0	0	0	0.01	-0.02	1	1	0	600	600	0
1/16/2025 9:28	43801	SWIL_T1	1	3	2	4.8	1.63	-3.17	0	0	0	0	0	0	0	0
1/16/2025 9:28	43802	SWIL_T1	0	0	0	0	0	0	-0.06	-0.06	1	1	0	600	600	0
1/16/2025 9:31	60101	COCA_T1	0	0	0	0	0	0	0.01	-0.02	1	1	0	600	600	0
1/16/2025 9:32	24101	EHAZ_T1	91	68	-23	1.54	1.34	-0.2	0	0	0	0	0	0	0	0
1/16/2025 9:32	24105	EHAZ_T1	7	4	-3	3.69	6.15	2.46	0	0	0	0	0	0	0	0
1/16/2025 9:32	24102	EHAZ_T1	1	6	5	2.1	0.7	-1.4	0.23	-0.18	0	0	0	0	0	0
1/16/2025 9:32	46802	HEPB_T1	1	1	0	1.3	1.6	0.3	-1.1	-1.14	0	0	0	0	0	0
1/16/2025 9:36	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 9:46	44503	HAMI_T2	5	3	-2	0.68	0.1	-0.58	0	0	0	0	0	0	0	0
1/16/2025 9:46	44502	HAMI_T2	2	2	0	1.2	1.6	0.4	0	0	0	0	0	0	0	0
1/16/2025 9:46	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
1/16/2025 9:47	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 9:47	44503	HAMI_T2	5	3	-2	0.68	0.1	-0.58	0	0	0	0	0	0	0	0
1/16/2025 9:47	44502	HAMI_T2	2	2	0	1.2	1.6	0.4	0	0	0	0	0	0	0	0
1/16/2025 9:48	44502	HAMI_T2	2	2	0	1.2	1.6	0.4	0	0	0	0	0	0	0	0
1/16/2025 9:48	44503	HAMI_T2	5	3	-2	0.68	0.1	-0.58	0	0	0	0	0	0	0	0
1/16/2025 9:48	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 9:49	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/16/2025 9:49	52404	GRPA_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/16/2025 9:49	23401	HONE_T2	7	14	7	0.6	0.47	-0.13	0.11	0.02	0	0	0	0	0	0
1/16/2025 9:49	52403	GRPA_T2	5	4	-1	0.68	0.65	-0.03	0	0.02	0	0	0	0	0	0
1/16/2025 9:49	52402	GRPA_T2	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
1/16/2025 9:50	44503	HAMI_T2	5	3	-2	0.68	0.1	-0.58	0	0	0	0	0	0	0	0
1/16/2025 9:50	44502	HAMI_T2	2	2	0	1.2	1.6	0.4	0	0	0	0	0	0	0	0
1/16/2025 9:50	23401	HONE_T2	7	14	7	0.6	0.47	-0.13	0.11	0.02	0	0	0	0	0	0
1/16/2025 9:50	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
1/16/2025 9:53	65702	RVIL_T2	0	0	0	0	0	0	-1.31	-1.31	1	1	0	600	600	0
1/16/2025 9:53	55002	NEWP_T1	4	5	1	0.45	0.6	0.15	-0.12	-0.12	0	0	0	0	0	0
1/16/2025 9:54	65702	RVIL_T2	0	0	0	0	0	0	-2.61	-2.61	2	2	0	1200	1200	0
1/16/2025 9:55	40302	TAMA_T3	1	4	3	0.1	0.48	0.38	0.24	0.25	0	0	0	0	0	0
1/16/2025 9:55	65702	RVIL_T2	0	0	0	0	0	0	-1.31	-1.31	1	1	0	600	600	0
1/16/2025 9:55	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/16/2025 9:55	29402	BELT_T1	1	6	5	5.6	1.12	-4.48	0	0	0	0	0	0	0	0
1/16/2025 9:55	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 9:56	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 9:57	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 9:57	40302	TAMA_T3	1	4	3	0.1	0.48	0.38	0	0	0	0	0	0	0	0
1/16/2025 10:02	26402	INOR_T1	0	0	0	0	0	0	-1.71	-1.72	1	1	0	600	600	0
1/16/2025 10:02	26401	INOR_T1	94	92	-2	0.96	0.77	-0.19	0	0	0	0	0	0	0	0
1/16/2025 10:04	53502	EVIL_T2	12	14	2	0.58	2.3	1.72	0	0	0	0	0	0	0	0
1/16/2025 10:04	53501	EVIL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
1/16/2025 10:05	52502	PROG_T2	0	0	0	0	0	0	-0.24	-0.21	1	1	0	900	900	0
1/16/2025 10:07	56501	ROCK_T2	1	1	0	2.4	1.6	-0.8	-1.44	-1.43	0	0	0	0	0	0
1/16/2025 10:08	67002	STHI_T2	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
1/16/2025 10:08	55002	NEWP_T1	5	6	1	0.3	0.57	0.27	-0.12	-0.12	0	0	0	0	0	0
1/16/2025 10:08	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/16/2025 10:09	67002	STHI_T2	0	0	0	0	0	0	2.04	2.01	0	0	0	0	0	0
1/16/2025 10:09	55101	WERT_T1	0	1	1	0	0	0	-2.65	-2.45	4	4	0	3000	3000	0
1/16/2025 10:09	56501	ROCK_T2	1	0	-1	2.4	1.6	-0.8	-1.44	-1.43	0	0	0	0	0	0
1/16/2025 10:09	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/16/2025 10:10	52502	PROG_T2	0	0	0	0	0	0	-0.21	-0.17	1	1	0	900	900	0
1/16/2025 10:10	55101	WERT_T1	0	1	1	0	0	0	-1.33	-1.23	2	2	0	1500	1500	0
1/16/2025 10:10	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/16/2025 10:10	67002	STHI_T2	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
1/16/2025 10:11	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 10:11	49804	UNIV_T1	0	0	0	0	0	0	0.78	0.81	0	0	0	0	0	0
1/16/2025 10:11	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/16/2025 10:11	49803	UNIV_T1	12	5	-7	0.93	3.4	2.47	0	0	0	0	0	0	0	0
1/16/2025 10:11	56501	ROCK_T2	1	1	0	2.4	1.6	-0.8	-1.44	-1.43	0	0	0	0	0	0
1/16/2025 10:11	65702	RVIL_T2	0	0	0	0	0	0	-1.31	-1.33	1	1	0	600	600	0
1/16/2025 10:12	46206	DANV_T2	9	9	0	0.34	0.3	-0.04	2.37	2.3	1	1	0	1200	1200	0
1/16/2025 10:12	46203	DANV_T2	9	9	0	0.63	0.64	0.01	0	0	0	0	0	0	0	0
1/16/2025 10:12	46204	DANV_T2	29	22	-7	0.38	0.28	-0.1	0	0	0	0	0	0	0	0
1/16/2025 10:12	55101	WERT_T1	0	1	1	0	0	0	-1.33	-1.23	2	2	0	1500	1500	0
1/16/2025 10:14	53601	DALM_T2	1	5	4	0.1	0	-0.1	-0.19	-0.21	1	1	0	900	900	0
1/16/2025 10:14	46203	DANV_T2	9	9	0	0.63	0.64	0.01	0	0	0	0	0	0	0	0
1/16/2025 10:14	46204	DANV_T2	29	22	-7	0.38	0.28	-0.1	0	0	0	0	0	0	0	0
1/16/2025 10:14	46206	DANV_T2	9	9	0	0.34	0.3	-0.04	2.37	2.3	1	1	0	1200	1200	0
1/16/2025 10:16	46206	DANV_T2	8	2	-6	0.28	0.1	-0.18	2.37	2.3	1	1	0	1200	1200	0
1/16/2025 10:16	46204	DANV_T2	21	11	-10	0.31	0.26	-0.05	0	0	0	0	0	0	0	0
1/16/2025 10:16	46203	DANV_T2	7	9	2	0.66	0.66	0	0	0	0	0	0	0	0	0
1/16/2025 10:18	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 10:23	65702	RVIL_T2	0	0	0	0	0	0	-1.33	-1.32	1	1	0	600	600	0
1/16/2025 10:25	65702	RVIL_T2	0	0	0	0	0	0	-1.33	-1.32	1	1	0	600	600	0
1/16/2025 10:26	65702	RVIL_T2	0	0	0	0	0	0	-1.33	-1.32	1	1	0	600	600	0
1/16/2025 10:27	53601	DALM_T2	5	7	2	0.46	0	-0.46	-0.21	-0.17	1	1	0	900	900	0
1/16/2025 10:33	45801	HEGI_T1	0	0	0	0	0	0	-0.56	-0.5	1	1	0	900	900	0
1/16/2025 10:34	23401	HONE_T2	5	34	29	0.58	0.35	-0.23	-0.02	0.2	0	0	0	0	0	0
1/16/2025 10:36	13704	SCHN_T2	1	1	0	1.5	1	-0.5	-0.64	-0.68	0	0	0	0	0	0
1/16/2025 10:37	56501	ROCK_T2	1	1	0	1.6	1.3	-0.3	-1.43	-1.43	0	0	0	0	0	0
1/16/2025 10:38	13704	SCHN_T2	1	1	0	1.5	1	-0.5	-0.64	-0.68	0	0	0	0	0	0
1/16/2025 10:38	56501	ROCK_T2	1	1	0	1.6	1.3	-0.3	-1.43	-1.43	0	0	0	0	0	0
1/16/2025 10:38	66503	SMAN_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
1/16/2025 10:38	66505	SMAN_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
1/16/2025 10:40	56501	ROCK_T2	1	1	0	1.6	1.3	-0.3	-1.43	-1.43	0	0	0	0	0	0
1/16/2025 10:41	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 10:41	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 10:41	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 10:50	52502	PROG_T2	0	0	0	0	0	0	-0.48	-0.42	2	2	0	1800	1800	0
1/16/2025 10:51	44902	SCOT_T2	377	489	112	0.31	0.53	0.22	-1.52	-1.56	0	0	0	0	0	0
1/16/2025 10:51	52502	PROG_T2	0	0	0	0	0	0	-0.63	-0.66	3	3	0	2700	2700	0
1/16/2025 10:51	44901	SCOT_T2	3	10	7	0.2	0.2	0	0.67	0.45	0	0	0	0	0	0
1/16/2025 10:51	57203	ROSS_T1	0	0	0	0	0	0	-0.93	-0.95	0	0	0	0	0	0
1/16/2025 10:52	57203	ROSS_T1	0	0	0	0	0	0	-0.93	-0.95	0	0	0	0	0	0
1/16/2025 10:52	59202	THOM_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/16/2025 10:53	52502	PROG_T2	0	0	0	0	0	0	-0.21	-0.22	1	1	0	900	900	0
1/16/2025 10:53	57201	ROSS_T1	0	0	0	0	0	0	-0.86	-0.92	0	0	0	0	0	0
1/16/2025 10:54	14706	TREX_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 10:54	52502	PROG_T2	0	0	0	0	0	0	-0.42	-0.44	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/16/2025 10:54	14705	TREX_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
1/16/2025 10:55	52502	PROG_T2	0	0	0	0	0	0	-0.42	-0.44	2	2	0	1800	1800	0
1/16/2025 10:55	57201	ROSS_T1	0	0	0	0	0	0	-0.86	-0.92	0	0	0	0	0	0
1/16/2025 10:56	52502	PROG_T2	0	0	0	0	0	0	-0.63	-0.66	3	3	0	2700	2700	0
1/16/2025 10:58	44801	EDAN_T2	1	0	-1	0.5	0	-0.5	-0.25	-0.26	0	0	0	0	0	0
1/16/2025 11:00	46203	DANV_T2	6	9	3	0.6	0.64	0.04	-1.14	-1.19	0	0	0	0	0	0
1/16/2025 11:00	46204	DANV_T2	3	8	5	0.2	0.63	0.43	0	0	0	0	0	0	0	0
1/16/2025 11:00	46206	DANV_T2	3	7	4	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
1/16/2025 11:01	63804	HEMP_T1	1	1	0	6.5	6.7	0.2	0	0	0	0	0	0	0	0
1/16/2025 11:01	63803	HEMP_T1	2	5	3	0.15	0.12	-0.03	0.1	0.09	0	0	0	0	0	0
1/16/2025 11:02	46203	DANV_T2	6	9	3	0.6	0.64	0.04	-1.14	-1.19	0	0	0	0	0	0
1/16/2025 11:02	46206	DANV_T2	3	7	4	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
1/16/2025 11:02	46204	DANV_T2	3	8	5	0.2	0.63	0.43	0	0	0	0	0	0	0	0
1/16/2025 11:03	13503	MCMI_T2	1	0	-1	0.1	0	-0.1	-0.47	-0.48	0	0	0	0	0	0
1/16/2025 11:05	13503	MCMI_T2	1	0	-1	0.1	0	-0.1	-0.47	-0.48	0	0	0	0	0	0
1/16/2025 11:10	67402	WAKE_T2	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
1/16/2025 11:11	44902	SCOT_T2	452	483	31	0.48	0.52	0.04	0	0	0	0	0	0	0	0
1/16/2025 11:11	55002	NEWP_T1	3	4	1	0.63	0.68	0.05	-0.14	-0.13	0	0	0	0	0	0
1/16/2025 11:11	44901	SCOT_T2	8	10	2	0.2	0.2	0	0.31	0.19	0	0	0	0	0	0
1/16/2025 11:11	67402	WAKE_T2	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
1/16/2025 11:13	41602	CLEV_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
1/16/2025 11:14	42701	AUGU_T1	3	5	2	0.37	0.8	0.43	0	0	2	2	0	1800	1800	0
1/16/2025 11:16	44801	EDAN_T2	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
1/16/2025 11:21	51204	MTON_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
1/16/2025 11:22	58401	MORO_T1	0	0	0	0	0	0	-1.42	-1.48	2	2	0	1200	1200	0
1/16/2025 11:23	55002	NEWP_T1	3	5	2	0.47	0.76	0.29	0	0	0	0	0	0	0	0
1/16/2025 11:23	55001	NEWP_T1	0	0	0	0	0	0	-0.66	-0.67	1	1	0	600	600	0
1/16/2025 11:28	10801	CHHI_T1	1	4	3	0.5	1.2	0.7	-1.8	-1.71	3	3	0	2100	2100	0
1/16/2025 11:30	52403	GRPA_T2	4	7	3	1.83	1.4	-0.43	0.01	0.01	0	0	0	0	0	0
1/16/2025 11:30	52401	GRPA_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
1/16/2025 11:30	52402	GRPA_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
1/16/2025 11:33	63804	HEMP_T1	1	1	0	6.7	6.7	0	0	0	0	0	0	0	0	0
1/16/2025 11:33	63802	HEMP_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
1/16/2025 11:33	63803	HEMP_T1	3	2	-1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
1/16/2025 11:35	51204	MTON_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 11:36	65804	RTWN_T1	0	0	0	0	0	0	0.36	0.32	2	2	0	1200	1200	0
1/16/2025 11:36	51204	MTON_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
1/16/2025 11:37	51204	MTON_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
1/16/2025 11:45	64303	LINC_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
1/16/2025 11:50	20603	GRWO_T2	6	1	-5	0.63	0.7	0.07	0	0	0	0	0	0	0	0
1/16/2025 11:50	20601	GRWO_T2	99	77	-22	0.82	0.62	-0.2	0.51	0.51	0	0	0	0	0	0
1/16/2025 11:54	13302	ORVI_T2	0	0	0	0	0	0	1.73	1.78	0	0	0	0	0	0
1/16/2025 11:55	67702	WERN_T2	0	0	0	0	0	0	-0.65	-0.6	0	0	0	0	0	0
1/16/2025 11:55	67703	WERN_T2	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
1/16/2025 11:55	65703	RVIL_T1	0	0	0	0	0	0	-1.07	-1.07	1	1	0	900	900	0
1/16/2025 11:56	44801	EDAN_T2	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
1/16/2025 11:56	65703	RVIL_T1	0	0	0	0	0	0	-1.07	-1.07	1	1	0	900	900	0
1/16/2025 11:58	11104	EGYP_T1	2	1	-1	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
1/16/2025 11:58	11103	EGYP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/16/2025 11:58	11101	EGYP_T1	0	0	0	0	0	0	-0.59	-0.57	1	1	0	1200	1200	0
1/16/2025 12:00	54506	ENOL_T2	0	0	0	0	0	0	0.18	0.35	0	0	0	0	0	0
1/16/2025 12:00	54505	ENOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/16/2025 12:01	60902	DONG_T2	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
1/16/2025 12:01	63501	HEID_TBK1-2	26	21	-5	0.4	0.39	-0.01	0	0	1	1	0	900	900	0
1/16/2025 12:01	60903	DONG_T2	0	0	0	0	0	0	0.25	0.25	1	1	0	600	600	0
1/16/2025 12:02	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 12:02	11104	EGYP_T1	1	0	-1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
1/16/2025 12:02	63501	HEID_TBK1-2	26	21	-5	0.4	0.39	-0.01	0	0	1	1	0	900	900	0
1/16/2025 12:03	54503	ENOL_T2	0	0	0	0	0	0	-0.94	-0.94	1	1	0	600	600	0
1/16/2025 12:03	54505	ENOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/16/2025 12:04	63501	HEID_TBK1-2	26	21	-5	0.4	0.39	-0.01	0	0	1	1	0	900	900	0
1/16/2025 12:04	58402	MORO_T1	0	1	1	0	0	0	-0.4	-0.48	3	3	0	2400	2400	0
1/16/2025 12:05	64203	KINZ_T1	4	4	0	0.63	0.4	-0.23	0	0	0	0	0	0	0	0
1/16/2025 12:05	64204	KINZ_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
1/16/2025 12:05	64201	KINZ_T1	2	0	-2	0.1	0	-0.1	-0.22	-0.4	4	4	0	2100	2100	0
1/16/2025 12:06	42802	SEIL_T1	0	0	0	0	0	0	-1.46	-1.48	0	0	0	0	0	0
1/16/2025 12:08	66202	SISP_T2	0	0	0	0	0	0	-1.07	-1.1	0	0	0	0	0	0
1/16/2025 12:09	24202	PROV_T4	0	0	0	0	0	0	-0.62	-0.63	1	1	0	1200	1200	0
1/16/2025 12:12	46001	BERW_T1	0	0	0	0	0	0	1.04	1	0	0	0	0	0	0
1/16/2025 12:13	46001	BERW_T1	0	0	0	0	0	0	1.04	1	0	0	0	0	0	0
1/16/2025 12:14	45501	DERR_T2	4	8	4	0.25	0.43	0.18	0	0	0	0	0	0	0	0
1/16/2025 12:14	45502	DERR_T2	0	5	5	0	0.45	0.45	-0.53	-0.52	0	0	0	0	0	0
1/16/2025 12:16	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
1/16/2025 12:16	54504	ENOL_T2	0	0	0	0	0	0	-0.89	-0.87	1	1	0	600	600	0
1/16/2025 12:16	64303	LINC_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
1/16/2025 12:16	64305	LINC_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/16/2025 12:17	46001	BERW_T1	0	0	0	0	0	0	1.04	1	0	0	0	0	0	0
1/16/2025 12:17	64701	LITI_T1	0	0	0	0	0	0	-0.56	-0.57	1	1	0	900	900	0
1/16/2025 12:17	40101	HUNT_T2	468	514	46	1.66	1.4	-0.26	-1.38	-1.41	0	0	0	0	0	0
1/16/2025 12:20	63804	HEMP_T1	1	1	0	6.7	6.6	-0.1	1.04	1.08	0	0	0	0	0	0
1/16/2025 12:20	63803	HEMP_T1	8	1	-7	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
1/16/2025 12:21	64701	LITI_T1	0	0	0	0	0	0	-0.56	-0.57	1	1	0	900	900	0
1/16/2025 12:22	58202	NEWV_T1	0	0	0	0	0	0	0.02	-0.08	0	0	0	0	0	0
1/16/2025 12:25	65802	RTWN_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
1/16/2025 12:25	25801	SUTR_T2	3	3	0	5.7	8.3	2.6	-0.36	-0.35	0	0	0	0	0	0
1/16/2025 12:30	16302	ALPA_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
1/16/2025 12:31	64301	LINC_T1	0	0	0	0	0	0	-0.64	-0.78	0	0	0	0	0	0
1/16/2025 12:31	64305	LINC_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/16/2025 12:33	64501	LAVI_T1	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
1/16/2025 12:34	64301	LINC_T1	0	0	0	0	0	0	-0.64	-0.78	0	0	0	0	0	0
1/16/2025 12:34	64305	LINC_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/16/2025 12:35	64501	LAVI_T1	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
1/16/2025 12:36	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 12:41	42701	AUGU_T1	1	6	5	1.3	0.43	-0.87	0	0	0	0	0	0	0	0
1/16/2025 12:43	42701	AUGU_T1	1	6	5	1.3	0.43	-0.87	0	0	0	0	0	0	0	0
1/16/2025 12:47	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 12:52	13904	SEID_T1	23	34	11	1.61	0.86	-0.75	0.9	0.84	0	0	0	0	0	0
1/16/2025 12:53	42902	MIDD_T2	2	0	-2	0.1	0	-0.1	-0.13	-0.16	0	0	0	0	0	0
1/16/2025 12:53	42903	MIDD_T2	2	2	0	1.45	1	-0.45	0	0	0	0	0	0	0	0
1/16/2025 12:54	13904	SEID_T1	23	34	11	1.61	0.86	-0.75	0.45	0.42	0	0	0	0	0	0
1/16/2025 12:58	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 12:59	22002	BOHE_T1	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
1/16/2025 13:06	41902	REED_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/16/2025 13:06	41903	REED_T1	0	0	0	0	0	0	0.1	0.09	1	1	0	1200	1200	0
1/16/2025 13:06	41901	REED_T1	9	9	0	0.63	0.47	-0.16	0	0	0	0	0	0	0	0
1/16/2025 13:08	41902	REED_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/16/2025 13:08	41903	REED_T1	0	0	0	0	0	0	0.09	0.11	1	1	0	1200	1200	0
1/16/2025 13:08	41901	REED_T1	9	9	0	0.63	0.47	-0.16	0	0	0	0	0	0	0	0
1/16/2025 13:11	67303	WYOM_T2	0	0	0	0	0	0	-0.78	-0.76	0	0	0	0	0	0
1/16/2025 13:21	15603	NSTR_T2	0	1	1	0	0.5	0.5	-1.01	-1.01	0	0	0	0	0	0
1/16/2025 13:21	15601	NSTR_T2	4	3	-1	0.18	0.2	0.02	0	0	0	0	0	0	0	0
1/16/2025 13:26	65702	RVIL_T2	0	0	0	0	0	0	-4.05	-4.25	3	3	0	1800	1800	0
1/16/2025 13:27	65703	RVIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 13:27	59101	WALK_T2	0	0	0	0	0	0	1.09	1.91	1	0	-1	600	0	-600
1/16/2025 13:34	24003	WIBA_T1	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/16/2025 13:34	24001	WIBA_T1	0	0	0	0	0	0	0.86	0.87	0	0	0	0	0	0
1/16/2025 13:40	55002	NEWP_T1	5	5	0	0.38	0.68	0.3	-0.12	-0.14	0	0	0	0	0	0
1/16/2025 13:44	10805	CHHI_T2	7	6	-1	1.8	1.68	-0.12	-1.24	-1.22	1	1	0	600	600	0
1/16/2025 13:46	11103	EGYP_T1	0	1	1	0	0	0	0.72	0.69	0	0	0	0	0	0
1/16/2025 13:46	11104	EGYP_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/16/2025 13:54	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 13:54	13904	SEID_T1	25	49	24	2.67	1.73	-0.94	0.46	0.42	0	0	0	0	0	0
1/16/2025 13:55	57205	ROSS_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
1/16/2025 13:58	10801	CHHI_T1	1	1	0	0.3	0	-0.3	-2.04	-2.03	3	3	0	2100	2100	0
1/16/2025 14:00	46206	DANV_T2	2	5	3	0.45	0.3	-0.15	3.35	3.46	4	4	0	4200	4200	0
1/16/2025 14:00	54601	SUMM_T2	0	0	0	0	0	0	-1.64	-1.68	2	2	0	2100	2100	0
1/16/2025 14:00	46203	DANV_T2	9	10	1	0.69	0.8	0.11	0	0	0	0	0	0	0	0
1/16/2025 14:00	46204	DANV_T2	4	3	-1	0.38	0.45	0.07	0	0	0	0	0	0	0	0
1/16/2025 14:05	63501	HEID_TBK1-2	3	2	-1	0.13	0.1	-0.03	-0.06	-0.09	1	1	0	900	900	0
1/16/2025 14:11	56501	ROCK_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
1/16/2025 14:11	56504	ROCK_T2	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
1/16/2025 14:26	59101	WALK_T2	0	0	0	0	0	0	2.02	1.9	0	0	0	0	0	0
1/16/2025 14:31	53501	EVIL_T2	1	2	1	0.2	0.6	0.4	-1.28	-1.42	2	2	0	1200	1200	0
1/16/2025 14:31	53502	EVIL_T2	1	12	11	1.1	0.4	-0.7	0	0	0	0	0	0	0	0
1/16/2025 15:14	29402	BELT_T1	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
1/16/2025 15:14	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/16/2025 18:12	44901	SCOT_T2	43	38	-5	0.2	0.18	-0.02	0.15	0.22	0	0	0	0	0	0
1/16/2025 18:12	67002	STHI_T2	55	62	7	0.2	0.18	-0.02	0.69	0.67	0	0	0	0	0	0
1/16/2025 18:12	67001	STHI_T2	258	273	15	0.16	0.19	0.03	0	0	0	0	0	0	0	0
1/16/2025 18:12	44902	SCOT_T2	610	591	-19	0.62	0.62	0	0	0	0	0	0	0	0	0
1/16/2025 18:13	24202	PROV_T4	0	0	0	0	0	0	-0.67	-0.68	1	1	0	1200	1200	0
1/16/2025 18:14	14704	TREX_T1	1	1	0	8.4	8.5	0.1	0	0	0	0	0	0	0	0
1/16/2025 18:14	14705	TREX_T1	1	1	0	4.1	0	-4.1	-0.23	-0.21	0	0	0	0	0	0
1/16/2025 18:16	11104	EGYP_T1	12	2	-10	0.58	0.4	-0.18	0	0	0	0	0	0	0	0
1/16/2025 18:16	11103	EGYP_T1	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
1/16/2025 18:16	11101	EGYP_T1	0	0	0	0	0	0	-0.6	-0.59	1	1	0	1200	1200	0
1/16/2025 18:16	11102	EGYP_T1	5	8	3	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/16/2025 18:17	44901	SCOT_T2	37	42	5	0.18	0.21	0.03	0.15	0.22	0	0	0	0	0	0
1/16/2025 18:17	44902	SCOT_T2	563	598	35	0.6	0.65	0.05	0	0	0	0	0	0	0	0
1/16/2025 18:18	60101	COCA_T1	0	0	0	0	0	0	0.68	0.54	0	0	0	0	0	0
1/16/2025 18:19	26703	HEML_T1	5	14	9	1.96	1.23	-0.73	-0.53	-0.53	1	1	0	600	600	0
1/16/2025 18:19	40101	HUNT_T2	736	780	44	2.75	2.44	-0.31	-1.4	-1.47	0	0	0	0	0	0
1/16/2025 18:19	26701	HEML_T1	6	14	8	0.57	1.1	0.53	0	0	0	0	0	0	0	0
1/16/2025 18:20	13704	SCHN_T2	1	0	-1	0.2	0	-0.2	-0.68	-0.71	0	0	0	0	0	0
1/16/2025 18:20	65801	RTWN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:20	65804	RTWN_T1	0	0	0	0	0	0	0.01	0.05	1	1	0	600	600	0
1/16/2025 18:22	46203	DANV_T2	16	16	0	0.83	0.81	-0.02	0	0	0	0	0	0	0	0
1/16/2025 18:22	46204	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/16/2025 18:22	65702	RVIL_T2	0	0	0	0	0	0	-1.46	-1.39	1	1	0	600	600	0
1/16/2025 18:22	46206	DANV_T2	1	0	-1	0.2	0	-0.2	0.82	0.81	2	2	0	2100	2100	0
1/16/2025 18:23	60101	COCA_T1	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
1/16/2025 18:23	41602	CLEV_T1	24	6	-18	0.38	0.15	-0.23	0	0	0	0	0	0	0	0
1/16/2025 18:23	65702	RVIL_T2	0	0	0	0	0	0	-1.46	-1.39	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/16/2025 18:24	67702	WERN_T2	0	0	0	0	0	0	-0.56	-0.57	0	0	0	0	0	0
1/16/2025 18:24	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:24	40302	TAMA_T3	11	29	18	0.59	0.48	-0.11	0.37	0.41	0	0	0	0	0	0
1/16/2025 18:24	16302	ALPA_T2	1	2	1	0.7	0.4	-0.3	-0.54	-0.61	0	0	0	0	0	0
1/16/2025 18:25	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:25	52502	PROG_T2	0	5	5	0	0.1	0.1	-0.26	-0.25	1	1	0	900	900	0
1/16/2025 18:25	56501	ROCK_T2	4	4	0	1.2	1.35	0.15	-0.84	-0.75	0	0	0	0	0	0
1/16/2025 18:26	63401	HONY_T1	0	0	0	0	0	0	0.2	0.15	1	1	0	600	600	0
1/16/2025 18:27	63804	HEMP_T1	1	1	0	6.7	6.7	0	0.98	1.01	0	0	0	0	0	0
1/16/2025 18:27	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:27	56501	ROCK_T2	4	4	0	1.2	1.35	0.15	-0.84	-0.75	0	0	0	0	0	0
1/16/2025 18:28	67002	STHI_T2	62	13	-49	0.18	0.15	-0.03	1.34	1.32	0	0	0	0	0	0
1/16/2025 18:28	56501	ROCK_T2	4	4	0	1.2	1.35	0.15	-1.68	-1.51	0	0	0	0	0	0
1/16/2025 18:28	44503	HAMI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/16/2025 18:28	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:28	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:28	44502	HAMI_T2	2	1	-1	0.9	1.5	0.6	0	0	0	0	0	0	0	0
1/16/2025 18:28	67001	STHI_T2	273	14	-259	0.19	0.17	-0.02	0	0	0	0	0	0	0	0
1/16/2025 18:29	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:29	52502	PROG_T2	0	5	5	0	0.1	0.1	-0.26	-0.25	1	1	0	900	900	0
1/16/2025 18:29	54505	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/16/2025 18:29	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:29	56501	ROCK_T2	4	4	0	1.2	1.35	0.15	-0.84	-0.75	0	0	0	0	0	0
1/16/2025 18:29	54506	ENOL_T2	0	0	0	0	0	0	0.36	0.35	1	1	0	600	600	0
1/16/2025 18:29	67002	STHI_T2	62	13	-49	0.18	0.15	-0.03	0.67	0.66	0	0	0	0	0	0
1/16/2025 18:29	60104	COCA_T2	1	4	3	0.1	0.38	0.28	0	0	0	0	0	0	0	0
1/16/2025 18:29	67001	STHI_T2	273	14	-259	0.19	0.17	-0.02	0	0	0	0	0	0	0	0
1/16/2025 18:29	46802	HEPB_T1	1	0	-1	0.8	0.9	0.1	-1.08	-1.08	0	0	0	0	0	0
1/16/2025 18:30	11101	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:30	11103	EGYP_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
1/16/2025 18:30	56501	ROCK_T2	4	2	-2	1.08	1.35	0.27	-0.84	-0.75	0	0	0	0	0	0
1/16/2025 18:30	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:30	67001	STHI_T2	14	1	-13	0.17	0.5	0.33	0	0	0	0	0	0	0	0
1/16/2025 18:30	11104	EGYP_T1	2	13	11	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
1/16/2025 18:30	11102	EGYP_T1	6	8	2	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/16/2025 18:30	67002	STHI_T2	13	0	-13	0.15	0	-0.15	0	0	0	0	0	0	0	0
1/16/2025 18:30	65703	RVIL_T1	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
1/16/2025 18:31	46001	BERW_T1	0	3	3	0	0.2	0.2	0.89	0.94	0	0	0	0	0	0
1/16/2025 18:31	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/16/2025 18:31	29402	BELT_T1	1	1	0	4.7	4.9	0.2	0	0	0	0	0	0	0	0
1/16/2025 18:32	64501	LAVI_T1	48	99	51	0.25	0.33	0.08	-0.33	-0.37	0	0	0	0	0	0
1/16/2025 18:32	64503	LAVI_T1	38	56	18	0.59	0.61	0.02	0	0	0	0	0	0	0	0
1/16/2025 18:32	65702	RVIL_T2	0	0	0	0	0	0	-1.46	-1.39	1	1	0	600	600	0
1/16/2025 18:32	52502	PROG_T2	5	2	-3	0.1	0.1	0	-0.52	-0.5	2	2	0	1800	1800	0
1/16/2025 18:32	64502	LAVI_T1	61	187	126	0.18	0.28	0.1	0	0	0	0	0	0	0	0
1/16/2025 18:33	63804	HEMP_T1	1	9	8	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
1/16/2025 18:33	65702	RVIL_T2	0	0	0	0	0	0	-1.46	-1.39	1	1	0	600	600	0
1/16/2025 18:33	44902	SCOT_T2	558	599	41	0.61	0.65	0.04	-1.68	-1.7	0	0	0	0	0	0
1/16/2025 18:33	44901	SCOT_T2	14	44	30	0.25	0.21	-0.04	0	0	0	0	0	0	0	0
1/16/2025 18:33	41902	REED_T1	9	32	23	0.92	0.69	-0.23	0	0	0	0	0	0	0	0
1/16/2025 18:33	41901	REED_T1	10	10	0	0.99	1.09	0.1	0	0	0	0	0	0	0	0
1/16/2025 18:33	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
1/16/2025 18:33	52502	PROG_T2	5	2	-3	0.1	0.1	0	-0.78	-0.75	3	3	0	2700	2700	0
1/16/2025 18:33	41903	REED_T1	0	0	0	0	0	0	0.07	0.03	1	1	0	1200	1200	0
1/16/2025 18:34	54505	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/16/2025 18:34	52502	PROG_T2	5	2	-3	0.1	0.1	0	-0.26	-0.25	1	1	0	900	900	0
1/16/2025 18:34	54504	ENOL_T2	0	0	0	0	0	0	-0.93	-0.96	1	1	0	600	600	0
1/16/2025 18:34	65703	RVIL_T1	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
1/16/2025 18:34	67002	STHI_T2	13	0	-13	0.15	0	-0.15	0.67	0.66	0	0	0	0	0	0
1/16/2025 18:34	42902	MIDD_T2	53	44	-9	0.69	0.33	-0.36	-0.51	-0.52	0	0	0	0	0	0
1/16/2025 18:34	64203	KINZ_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
1/16/2025 18:34	42903	MIDD_T2	2	2	0	1.65	1.55	-0.1	0	0	0	0	0	0	0	0
1/16/2025 18:34	67001	STHI_T2	14	1	-13	0.17	0.5	0.33	0	0	0	0	0	0	0	0
1/16/2025 18:34	65702	RVIL_T2	0	0	0	0	0	0	-1.46	-1.39	1	1	0	600	600	0
1/16/2025 18:34	42901	MIDD_T2	12	21	9	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
1/16/2025 18:34	64204	KINZ_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
1/16/2025 18:34	64201	KINZ_T1	0	0	0	0	0	0	-0.59	-0.61	3	3	0	1500	1500	0
1/16/2025 18:34	13302	ORVI_T2	0	1	1	0	0.1	0.1	1.64	1.75	0	0	0	0	0	0
1/16/2025 18:34	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:35	44502	HAMI_T2	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
1/16/2025 18:35	42701	AUGU_T1	4	12	8	0.68	0.85	0.17	0	0	0	0	0	0	0	0
1/16/2025 18:35	25801	SUTR_T2	8	17	9	2.69	2.26	-0.43	-0.31	-0.33	0	0	0	0	0	0
1/16/2025 18:35	65702	RVIL_T2	0	0	0	0	0	0	-1.46	-1.39	1	1	0	600	600	0
1/16/2025 18:35	44505	HAMI_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
1/16/2025 18:36	13904	SEID_T1	48	65	17	1.49	1.37	-0.12	0.46	0.5	0	0	0	0	0	0
1/16/2025 18:36	10801	CHHI_T1	26	21	-5	0.5	0.47	-0.03	-1.87	-1.86	3	3	0	2100	2100	0
1/16/2025 18:36	46203	DANV_T2	10	21	11	0.73	0.93	0.2	0	0	0	0	0	0	0	0
1/16/2025 18:36	13902	SEID_T1	1	1	0	0.5	1.4	0.9	0	0	0	0	0	0	0	0
1/16/2025 18:36	67303	WYOM_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
1/16/2025 18:36	16101	BING_T2	1	4	3	0.7	0.15	-0.55	0	0	0	0	0	0	0	0
1/16/2025 18:36	46206	DANV_T2	0	0	0	0	0	0	0.82	0.81	2	2	0	2100	2100	0
1/16/2025 18:36	16102	BING_T2	13	96	83	0.16	0.22	0.06	-1.27	-1.27	1	1	0	1200	1200	0
1/16/2025 18:36	55001	NEWP_T1	1	0	-1	0.7	0	-0.7	-0.67	-0.72	1	1	0	600	600	0
1/16/2025 18:36	15603	NSTR_T2	0	2	2	0	0	0	-0.92	-0.89	0	0	0	0	0	0
1/16/2025 18:36	15601	NSTR_T2	27	39	12	0.51	0.42	-0.09	0	0	0	0	0	0	0	0
1/16/2025 18:36	65702	RVIL_T2	0	0	0	0	0	0	-1.46	-1.39	1	1	0	600	600	0
1/16/2025 18:36	55002	NEWP_T1	4	4	0	1.08	1.1	0.02	0	0	0	0	0	0	0	0
1/16/2025 18:36	16103	BING_T2	5	9	4	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
1/16/2025 18:36	63501	HEID_TBK1-2	14	36	22	0.39	0.27	-0.12	-0.33	-0.3	1	1	0	900	900	0
1/16/2025 18:36	13903	SEID_T1	1	2	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/16/2025 18:37	65702	RVIL_T2	0	0	0	0	0	0	-1.39	-1.46	1	1	0	600	600	0
1/16/2025 18:37	64501	LAVI_T1	48	99	51	0.25	0.33	0.08	-0.37	-0.37	0	0	0	0	0	0
1/16/2025 18:37	64502	LAVI_T1	61	187	126	0.18	0.28	0.1	0	0	0	0	0	0	0	0
1/16/2025 18:37	52502	PROG_T2	5	2	-3	0.1	0.1	0	-0.25	-0.25	1	1	0	900	900	0
1/16/2025 18:37	64503	LAVI_T1	38	56	18	0.59	0.61	0.02	0	0	0	0	0	0	0	0
1/16/2025 18:38	44901	SCOT_T2	14	44	30	0.25	0.21	-0.04	0.11	0	0	0	0	0	0	0
1/16/2025 18:38	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:38	26402	INOR_T1	0	0	0	0	0	0	-1.91	-1.94	1	1	0	600	600	0
1/16/2025 18:38	40302	TAMA_T3	17	24	7	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
1/16/2025 18:38	26401	INOR_T1	19	30	11	1.03	1.6	0.57	0	0	0	0	0	0	0	0
1/16/2025 18:38	16101	BING_T2	1	4	3	0.7	0.15	-0.55	0.72	0.72	0	0	0	0	0	0
1/16/2025 18:38	44902	SCOT_T2	558	599	41	0.61	0.65	0.04	0	0	0	0	0	0	0	0
1/16/2025 18:38	10805	CHHI_T2	10	7	-3	2.62	2.44	-0.18	-1.3	-1.29	1	1	0	600	600	0
1/16/2025 18:38	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:38	52502	PROG_T2	5	2	-3	0.1	0.1	0	-0.5	-0.5	2	2	0	1800	1800	0
1/16/2025 18:38	13501	MCMI_T1	4	3	-1	1.6	1.8	0.2	0	0	0	0	0	0	0	0
1/16/2025 18:38	51204	MTON_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
1/16/2025 18:38	16102	BING_T2	13	96	83	0.16	0.22	0.06	0	0	0	0	0	0	0	0
1/16/2025 18:38	16103	BING_T2	5	9	4	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
1/16/2025 18:38	65702	RVIL_T2	0	0	0	0	0	0	-1.39	-1.46	1	1	0	600	600	0
1/16/2025 18:39	63401	HONY_T1	0	0	0	0	0	0	0.15	0.08	1	1	0	600	600	0
1/16/2025 18:39	64303	LINC_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
1/16/2025 18:39	43802	SWIL_T1	0	0	0	0	0	0	-0.04	-0.05	1	1	0	600	600	0
1/16/2025 18:39	45801	HEGI_T1	1	0	-1	0.3	0	-0.3	-0.11	-0.16	1	1	0	900	900	0
1/16/2025 18:39	44901	SCOT_T2	14	44	30	0.25	0.21	-0.04	0	0	0	0	0	0	0	0
1/16/2025 18:39	45502	DERR_T2	3	4	1	1.03	1.4	0.37	-0.54	-0.54	0	0	0	0	0	0
1/16/2025 18:39	45501	DERR_T2	16	15	-1	0.77	0.86	0.09	0	0	0	0	0	0	0	0
1/16/2025 18:39	44902	SCOT_T2	558	599	41	0.61	0.65	0.04	-0.85	-0.82	0	0	0	0	0	0
1/16/2025 18:39	52502	PROG_T2	5	2	-3	0.1	0.1	0	-0.5	-0.5	2	2	0	1800	1800	0
1/16/2025 18:39	43801	SWIL_T1	2	2	0	3.15	3.05	-0.1	0	0	0	0	0	0	0	0
1/16/2025 18:40	46001	BERW_T1	0	3	3	0	0.2	0.2	0.94	0.87	0	0	0	0	0	0
1/16/2025 18:40	22002	BOHE_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
1/16/2025 18:40	11507	FREE_T2	31	30	-1	0.99	0.72	-0.27	1.74	1.49	0	0	0	0	0	0
1/16/2025 18:40	44801	EDAN_T2	0	1	1	0	0	0	-0.3	-0.3	0	0	0	0	0	0
1/16/2025 18:41	51204	MTON_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:41	60101	COCA_T1	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
1/16/2025 18:41	60903	DONG_T2	0	0	0	0	0	0	0.02	-0.05	1	1	0	600	600	0
1/16/2025 18:42	44801	EDAN_T2	0	1	1	0	0	0	-0.3	-0.3	0	0	0	0	0	0
1/16/2025 18:42	13902	SEID_T1	1	1	0	0.5	1.4	0.9	0	0	0	0	0	0	0	0
1/16/2025 18:42	13903	SEID_T1	1	2	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/16/2025 18:42	13904	SEID_T1	48	65	17	1.49	1.37	-0.12	0.46	0.5	0	0	0	0	0	0
1/16/2025 18:43	41901	REED_T1	10	10	0	0.99	1.09	0.1	0	0	0	0	0	0	0	0
1/16/2025 18:43	41903	REED_T1	0	0	0	0	0	0	0.03	0.22	1	1	0	1200	1200	0
1/16/2025 18:43	24103	EHAZ_T1	2	4	2	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/16/2025 18:43	24105	EHAZ_T1	35	35	0	2.99	2.18	-0.81	0	0	0	0	0	0	0	0
1/16/2025 18:43	24102	EHAZ_T1	32	36	4	0.81	0.67	-0.14	-0.11	-0.13	0	0	0	0	0	0
1/16/2025 18:43	59201	THOM_T1	2	3	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
1/16/2025 18:43	52502	PROG_T2	5	2	-3	0.1	0.1	0	-0.25	-0.25	1	1	0	900	900	0
1/16/2025 18:43	59202	THOM_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
1/16/2025 18:43	41902	REED_T1	9	32	23	0.92	0.69	-0.23	0	0	0	0	0	0	0	0
1/16/2025 18:43	65702	RVIL_T2	0	0	0	0	0	0	-1.39	-1.46	1	1	0	600	600	0
1/16/2025 18:43	24101	EHAZ_T1	71	93	22	1.79	2.36	0.57	0	0	0	0	0	0	0	0
1/16/2025 18:44	57203	ROSS_T1	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
1/16/2025 18:44	64303	LINC_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
1/16/2025 18:44	63401	HONY_T1	0	0	0	0	0	0	0.15	0.08	1	1	0	600	600	0
1/16/2025 18:44	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:44	13704	SCHN_T2	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
1/16/2025 18:44	23402	HONE_T2	9	2	-7	0.82	0	-0.82	0	0	0	0	0	0	0	0
1/16/2025 18:44	23401	HONE_T2	36	125	89	0.53	0.46	-0.07	0.19	0.33	0	0	0	0	0	0
1/16/2025 18:45	52404	GRPA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/16/2025 18:45	24001	WIBA_T1	3	7	4	0.67	1	0.33	0.68	0.69	0	0	0	0	0	0
1/16/2025 18:45	52403	GRPA_T2	2	5	3	0.25	0.53	0.28	0	0	0	0	0	0	0	0
1/16/2025 18:45	52401	GRPA_T2	6	3	-3	0.83	0	-0.83	0	0	0	0	0	0	0	0
1/16/2025 18:45	24003	WIBA_T1	7	9	2	0.69	0	-0.69	0	0	0	0	0	0	0	0
1/16/2025 18:45	24005	WIBA_T1	1	13	12	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/16/2025 18:45	64301	LINC_T1	0	0	0	0	0	0	0.06	0.11	0	0	0	0	0	0
1/16/2025 18:45	57203	ROSS_T1	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
1/16/2025 18:45	23401	HONE_T2	108	104	-4	0.51	0.55	0.04	0.38	0.66	0	0	0	0	0	0
1/16/2025 18:45	24006	WIBA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:45	52402	GRPA_T2	11	7	-4	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
1/16/2025 18:45	23402	HONE_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:46	63804	HEMP_T1	1	9	8	6.7	1.11	-5.59	0	0	0	0	0	0	0	0
1/16/2025 18:46	63803	HEMP_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/16/2025 18:48	57201	ROSS_T1	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
1/16/2025 18:48	52502	PROG_T2	0	19	19	0	0.11	0.11	-0.25	-0.25	1	1	0	900	900	0
1/16/2025 18:49	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:49	63501	HEID_TBK1-2	35	37	2	0.28	0.28	0	-0.3	-0.25	1	1	0	900	900	0
1/16/2025 18:49	53601	DALM_T2	1	1	0	0.9	0.7	-0.2	-1	-1	1	1	0	900	900	0
1/16/2025 18:49	57201	ROSS_T1	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
1/16/2025 18:49	64301	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:49	64701	LITI_T1	0	3	3	0	0	0	0.33	0.32	0	0	0	0	0	0
1/16/2025 18:50	66503	SMAN_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
1/16/2025 18:50	66505	SMAN_T2	3	3	0	0.47	0.23	-0.24	0	0	0	0	0	0	0	0
1/16/2025 18:50	64701	LITI_T1	0	3	3	0	0	0	0.33	0.32	0	0	0	0	0	0
1/16/2025 18:50	13503	MCMI_T2	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
1/16/2025 18:50	55101	WERT_T1	0	0	0	0	0	0	-1.67	-1.62	2	2	0	1500	1500	0
1/16/2025 18:50	60902	DONG_T2	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
1/16/2025 18:51	26704	HEML_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
1/16/2025 18:51	44801	EDAN_T2	1	1	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
1/16/2025 18:51	57201	ROSS_T1	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
1/16/2025 18:52	13503	MCMI_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
1/16/2025 18:52	44505	HAMI_T2	0	0	0	0	0	0	0.29	0.32	0	0	0	0	0	0
1/16/2025 18:52	11102	EGYP_T1	8	0	-8	0.59	0	-0.59	0	0	0	0	0	0	0	0
1/16/2025 18:52	53501	EVIL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/16/2025 18:52	44502	HAMI_T2	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
1/16/2025 18:52	11104	EGYP_T1	2	13	11	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
1/16/2025 18:52	11103	EGYP_T1	1	7	6	0.1	0	-0.1	0.57	0.56	0	0	0	0	0	0
1/16/2025 18:54	42701	AUGU_T1	11	14	3	0.82	0.61	-0.21	0	0	0	0	0	0	0	0
1/16/2025 18:54	59201	THOM_T1	3	5	2	0.13	0.2	0.07	0	0	0	0	0	0	0	0
1/16/2025 18:54	57205	ROSS_T1	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
1/16/2025 18:54	49804	UNIV_T1	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
1/16/2025 18:54	49803	UNIV_T1	2	7	5	3.2	2.43	-0.77	0	0	0	0	0	0	0	0
1/16/2025 18:54	65703	RVIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:54	59202	THOM_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
1/16/2025 18:55	20601	GRWO_T2	34	37	3	0.74	0.65	-0.09	0.13	0.12	0	0	0	0	0	0
1/16/2025 18:55	63501	HEID_TBK1-2	35	37	2	0.28	0.28	0	-0.25	-0.41	1	1	0	900	900	0
1/16/2025 18:55	20602	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:55	20603	GRWO_T2	27	21	-6	0.7	0.78	0.08	0	0	0	0	0	0	0	0
1/16/2025 18:56	10801	CHHI_T1	4	21	17	0.4	0.5	0.1	-1.86	-1.9	3	3	0	2100	2100	0
1/16/2025 18:56	59101	WALK_T2	0	0	0	0	0	0	0.56	1.03	2	1	-1	1200	600	-600
1/16/2025 18:56	46206	DANV_T2	0	0	0	0	0	0	0.8	0.54	2	2	0	2100	2100	0
1/16/2025 18:56	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:56	46203	DANV_T2	16	22	6	0.69	0.82	0.13	0	0	0	0	0	0	0	0
1/16/2025 18:56	55002	NEWP_T1	4	4	0	1.08	0.88	-0.2	-0.18	-0.14	0	0	0	0	0	0
1/16/2025 18:57	65702	RVIL_T2	0	0	0	0	0	0	-1.46	-1.46	1	1	0	600	600	0
1/16/2025 18:59	46203	DANV_T2	16	22	6	0.69	0.82	0.13	-1.2	-1.19	0	0	0	0	0	0
1/16/2025 18:59	58402	MORO_T1	5	5	0	1.16	0	-1.16	-0.07	-0.11	3	3	0	1950	1950	0
1/16/2025 18:59	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:59	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 18:59	46206	DANV_T2	0	0	0	0	0	0	0.8	0.54	2	2	0	2100	2100	0
1/16/2025 19:00	55101	WERT_T1	0	0	0	0	0	0	-1.62	-1.72	2	2	0	1500	1500	0
1/16/2025 19:00	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 19:00	46203	DANV_T2	19	24	5	0.78	0.89	0.11	0	0	0	0	0	0	0	0
1/16/2025 19:00	13704	SCHN_T2	0	0	0	0	0	0	-0.7	-0.67	0	0	0	0	0	0
1/16/2025 19:00	46206	DANV_T2	0	0	0	0	0	0	0.8	0.54	2	2	0	2100	2100	0
1/16/2025 19:00	67402	WAKE_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
1/16/2025 19:01	58202	NEWV_T1	0	0	0	0	0	0	0.07	0.1	0	0	0	0	0	0
1/16/2025 19:01	42802	SELI_T1	0	0	0	0	0	0	-1.54	-1.62	0	0	0	0	0	0
1/16/2025 19:01	63501	HEID_TBK1-2	14	37	23	0.28	0.28	0	-0.25	-0.41	1	1	0	900	900	0
1/16/2025 19:02	59101	WALK_T2	0	0	0	0	0	0	0.56	1.03	2	1	-1	1200	600	-600
1/16/2025 19:02	53601	DALM_T2	1	1	0	0.7	0.7	0	-1	-1.02	1	1	0	900	900	0
1/16/2025 19:03	67402	WAKE_T2	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
1/16/2025 19:04	58401	MORO_T1	0	0	0	0	0	0	-1.7	-1.74	2	2	0	1200	1200	0
1/16/2025 19:04	58402	MORO_T1	5	0	-5	0.88	0	-0.88	0	0	0	0	0	0	0	0
1/16/2025 19:05	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/16/2025 19:05	46203	DANV_T2	19	24	5	0.78	0.89	0.11	-1.2	-1.19	0	0	0	0	0	0
1/16/2025 19:05	67001	STHI_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/16/2025 19:05	67002	STHI_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
1/16/2025 19:05	44502	HAMI_T2	1	2	1	1.4	1.5	0.1	0	0	0	0	0	0	0	0
1/16/2025 19:05	55101	WERT_T1	0	0	0	0	0	0	-1.62	-1.72	2	2	0	1500	1500	0
1/16/2025 19:07	29402	BELT_T1	1	1	0	4.7	5.2	0.5	0	0	0	0	0	0	0	0
1/16/2025 19:07	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/16/2025 19:07	55101	WERT_T1	0	0	0	0	0	0	-1.72	-1.74	2	2	0	1500	1500	0
1/16/2025 19:18	54503	ENOL_T2	0	0	0	0	0	0	-0.29	-0.2	1	1	0	600	600	0
1/16/2025 19:42	64301	LINC_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
1/16/2025 19:42	53501	EVIL_T2	0	0	0	0	0	0	-1.28	-1.26	2	2	0	1200	1200	0
1/16/2025 20:21	52402	GRPA_T2	12	15	3	0.79	0.51	-0.28	0	0	0	0	0	0	0	0
1/16/2025 20:21	52403	GRPA_T2	1	3	2	0.1	0.4	0.3	-0.08	-0.09	0	0	0	0	0	0
1/17/2025 8:41	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 8:46	26704	HEML_T2	0	0	0	0	0	0	-0.33	-0.28	0	0	0	0	0	0
1/17/2025 9:00	40505	ORES_T1	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
1/17/2025 9:00	13503	MCMI_T2	0	0	0	0	0	0	0.03	0.86	0	0	0	0	0	0
1/17/2025 9:06	66903	SHIL_T2	0	0	0	0	0	0	-1.2	-1.17	0	0	0	0	0	0
1/17/2025 9:08	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 9:10	66903	SHIL_T2	0	0	0	0	0	0	-1.17	-1.18	0	0	0	0	0	0
1/17/2025 9:16	57505	LAWN_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/17/2025 9:16	63501	HEID_TBK1-2	35	6	-29	0.29	0.18	-0.11	-0.32	-0.3	1	1	0	900	900	0
1/17/2025 9:16	57502	LAWN_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 9:20	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 9:20	16102	BING_T2	1	5	4	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
1/17/2025 9:21	46206	DANV_T2	21	9	-12	0.44	0.5	0.06	2.94	2.91	1	1	0	1200	1200	0
1/17/2025 9:21	46203	DANV_T2	2	1	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
1/17/2025 9:21	46204	DANV_T2	3	3	0	0.17	0	-0.17	0	0	0	0	0	0	0	0
1/17/2025 9:30	55002	NEWP_T1	6	6	0	0.8	1.27	0.47	-0.15	-0.2	0	0	0	0	0	0
1/17/2025 9:33	26704	HEML_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
1/17/2025 9:33	63501	HEID_TBK1-2	6	29	23	0.18	0.22	0.04	-0.6	-0.72	2	2	0	1800	1800	0
1/17/2025 9:34	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 9:48	58401	MORO_T1	0	0	0	0	0	0	-0.81	-0.84	1	1	0	600	600	0
1/17/2025 9:51	58401	MORO_T1	0	0	0	0	0	0	-1.67	-1.69	2	2	0	1200	1200	0
1/17/2025 9:52	58401	MORO_T1	0	0	0	0	0	0	-0.84	-0.85	1	1	0	600	600	0
1/17/2025 9:52	44901	SCOT_T2	46	105	59	0.25	0.35	0.1	0.16	0.28	0	0	0	0	0	0
1/17/2025 9:52	44902	SCOT_T2	619	731	112	0.79	1.01	0.22	0	0	0	0	0	0	0	0
1/17/2025 9:53	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 9:53	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 9:53	67001	STHI_T2	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
1/17/2025 9:53	41901	REED_T1	9	10	1	1.13	1.24	0.11	0	0	0	0	0	0	0	0
1/17/2025 9:54	16101	BING_T2	0	0	0	0	0	0	0.51	0.54	0	0	0	0	0	0
1/17/2025 9:54	16102	BING_T2	5	1	-4	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
1/17/2025 9:55	67002	STHI_T2	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
1/17/2025 9:55	67001	STHI_T2	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
1/17/2025 9:56	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 10:02	46203	DANV_T2	0	0	0	0	0	0	-0.47	-0.44	0	0	0	0	0	0
1/17/2025 10:02	46206	DANV_T2	2	2	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
1/17/2025 10:03	63501	HEID_TBK1-2	29	94	65	0.22	0.39	0.17	0	0	0	0	0	0	0	0
1/17/2025 10:04	46203	DANV_T2	0	0	0	0	0	0	-0.47	-0.44	0	0	0	0	0	0
1/17/2025 10:04	46206	DANV_T2	2	2	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
1/17/2025 10:07	40601	PIGR_T1	14	19	5	0.14	0.16	0.02	0	0	0	0	0	0	0	0
1/17/2025 10:07	57205	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 10:07	65702	RVIL_T2	0	0	0	0	0	0	-2.8	-2.72	2	2	0	1200	1200	0
1/17/2025 10:07	57201	ROSS_T1	0	1	1	0	0.1	0.1	-0.55	-0.52	0	0	0	0	0	0
1/17/2025 10:08	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 10:08	66903	SHIL_T2	0	0	0	0	0	0	-1.18	-1.18	0	0	0	0	0	0
1/17/2025 10:09	57201	ROSS_T1	0	1	1	0	0.1	0.1	-0.55	-0.52	0	0	0	0	0	0
1/17/2025 10:09	57205	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 10:10	40601	PIGR_T1	14	19	5	0.14	0.16	0.02	0	0	0	0	0	0	0	0
1/17/2025 10:10	67001	STHI_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/17/2025 10:10	29402	BELT_T1	1	1	0	5.4	6.5	1.1	0	0	0	0	0	0	0	0
1/17/2025 10:10	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 10:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/17/2025 10:12	67402	WAKE_T2	0	1	1	0	0.1	0.1	0.28	0.26	0	0	0	0	0	0
1/17/2025 10:16	16102	BING_T2	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
1/17/2025 10:17	64802	MONE_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 10:17	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/17/2025 10:20	64802	MONE_T2	0	2	2	0	0.1	0.1	0.27	0.24	0	0	0	0	0	0
1/17/2025 10:20	64801	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/17/2025 10:22	14201	EALL_T1	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
1/17/2025 10:23	54203	PENN_T1	20	23	3	1.18	0.97	-0.21	0.68	0.69	0	0	0	0	0	0
1/17/2025 10:23	54201	PENN_T1	120	13	-107	0.41	0.57	0.16	0	0	0	0	0	0	0	0
1/17/2025 10:24	54201	PENN_T1	120	13	-107	0.41	0.57	0.16	0.02	0	0	0	0	0	0	0
1/17/2025 10:24	54203	PENN_T1	20	23	3	1.18	0.97	-0.21	0.68	0.69	0	0	0	0	0	0
1/17/2025 10:25	29402	BELT_T1	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
1/17/2025 10:29	29402	BELT_T1	1	1	0	6.3	6.5	0.2	0	0	0	0	0	0	0	0
1/17/2025 10:30	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
1/17/2025 10:37	57201	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/17/2025 10:37	57203	ROSS_T1	0	0	0	0	0	0	-0.14	-0.02	0	0	0	0	0	0
1/17/2025 10:37	15603	NSTR_T2	0	1	1	0	0	0	-1.07	-1.04	0	0	0	0	0	0
1/17/2025 10:37	57205	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/17/2025 10:38	13701	SCHN_T2	0	0	0	0	0	0	0	-0.01	1	1	0	600	600	0
1/17/2025 10:38	13704	SCHN_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
1/17/2025 10:40	57201	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/17/2025 10:40	57203	ROSS_T1	0	0	0	0	0	0	-0.14	-0.02	0	0	0	0	0	0
1/17/2025 10:40	57205	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/17/2025 10:40	14705	TREX_T1	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
1/17/2025 10:40	14704	TREX_T1	1	1	0	6.9	3.2	-3.7	0	0	0	0	0	0	0	0
1/17/2025 10:44	10805	CHHI_T2	6	5	-1	1.88	1.74	-0.14	-1.1	-1.16	1	1	0	600	600	0
1/17/2025 10:45	63501	HEID_TBK1-2	130	113	-17	0.37	0.32	-0.05	-0.26	-0.2	1	1	0	900	900	0
1/17/2025 10:46	54505	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
1/17/2025 10:46	54502	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/17/2025 10:46	54503	ENOL_T2	0	0	0	0	0	0	-0.38	-0.39	1	1	0	600	600	0
1/17/2025 10:46	63501	HEID_TBK1-2	130	113	-17	0.37	0.32	-0.05	-0.51	-0.4	2	2	0	1800	1800	0
1/17/2025 10:46	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/17/2025 10:50	63501	HEID_TBK1-2	130	113	-17	0.37	0.32	-0.05	-0.26	-0.2	1	1	0	900	900	0
1/17/2025 10:51	54203	PENN_T1	23	18	-5	0.96	1.01	0.05	0	0	0	0	0	0	0	0
1/17/2025 10:51	54201	PENN_T1	13	7	-6	0.57	0.79	0.22	-0.01	0.02	0	0	0	0	0	0
1/17/2025 10:52	57205	ROSS_T1	0	0	0	0	0	0	-0.04	-0.13	0	0	0	0	0	0
1/17/2025 10:53	57201	ROSS_T1	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/17/2025 10:53	52502	PROG_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/17/2025 10:54	54603	SUMM_T2	0	0	0	0	0	0	-0.35	-0.28	1	1	0	900	900	0
1/17/2025 10:54	54601	SUMM_T2	6	4	-2	0.32	0.35	0.03	0	0	0	0	0	0	0	0
1/17/2025 10:55	54601	SUMM_T2	6	4	-2	0.32	0.35	0.03	0	0	0	0	0	0	0	0
1/17/2025 10:55	54603	SUMM_T2	0	0	0	0	0	0	-0.35	-0.28	1	1	0	900	900	0
1/17/2025 10:55	57201	ROSS_T1	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
1/17/2025 10:56	15103	UPHA_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
1/17/2025 10:59	40801	EXCH_T2	2	3	1	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
1/17/2025 10:59	40802	EXCH_T2	2	2	0	0.15	0.2	0.05	-0.18	-0.22	0	0	0	0	0	0
1/17/2025 11:06	13704	SCHN_T2	4	26	22	0.18	0.24	0.06	-0.89	-0.88	0	0	0	0	0	0
1/17/2025 11:06	13701	SCHN_T2	0	13	13	0	0.18	0.18	0	0	0	0	0	0	0	0
1/17/2025 11:06	52502	PROG_T2	1	1	0	0.2	0.3	0.1	-0.48	-0.53	1	1	0	900	900	0
1/17/2025 11:07	52502	PROG_T2	1	1	0	0.2	0.3	0.1	-0.95	-1.05	2	2	0	1800	1800	0
1/17/2025 11:08	13702	SCHN_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
1/17/2025 11:09	66203	SISP_T2	1	0	-1	3.6	0	-3.6	0	0	0	0	0	0	0	0
1/17/2025 11:09	52502	PROG_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/17/2025 11:11	66203	SISP_T2	1	0	-1	3.6	0	-3.6	-0.88	-1.01	2	2	0	1800	1800	0
1/17/2025 11:14	61001	DONV_T1	0	1	1	0	0.8	0.8	-0.73	-0.81	0	0	0	0	0	0
1/17/2025 11:14	16102	BING_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/17/2025 11:14	16101	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/17/2025 11:16	64204	KINZ_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
1/17/2025 11:16	16101	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/17/2025 11:16	16102	BING_T2	1	1	0	0.1	0.2	0.1	0.11	0.16	0	0	0	0	0	0
1/17/2025 11:16	60404	DILL_T2	0	0	0	0	0	0	0.23	0.18	1	1	0	1200	1200	0
1/17/2025 11:16	64203	KINZ_T1	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
1/17/2025 11:17	54505	ENOL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
1/17/2025 11:17	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-0.96	1	1	0	600	600	0
1/17/2025 11:21	64101	REFR_T1	0	2	2	0	0.25	0.25	0.09	-0.06	0	0	0	0	0	0
1/17/2025 11:22	64101	REFR_T1	0	2	2	0	0.25	0.25	-0.02	-0.04	0	0	0	0	0	0
1/17/2025 11:22	13702	SCHN_T1	0	0	0	0	0	0	0.61	0.64	0	0	0	0	0	0
1/17/2025 11:22	66503	SMAN_T2	0	0	0	0	0	0	0.35	0.4	0	0	0	0	0	0
1/17/2025 11:22	66502	SMAN_T2	5	8	3	0.18	0.3	0.12	0	0	0	0	0	0	0	0
1/17/2025 11:22	66504	SMAN_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
1/17/2025 11:22	66501	SMAN_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
1/17/2025 11:22	44201	POIN_T1	29	93	64	0.13	0.24	0.11	-3.96	-3.87	4	4	0	4200	4200	0
1/17/2025 11:23	44201	POIN_T1	29	93	64	0.13	0.24	0.11	-5.94	-5.81	6	6	0	6300	6300	0
1/17/2025 11:23	64303	LINC_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 11:23	64305	LINC_T1	2	5	3	0.25	0.66	0.41	-0.38	-0.38	0	0	0	0	0	0
1/17/2025 11:24	44201	POIN_T1	29	93	64	0.13	0.24	0.11	-1.98	-1.94	2	2	0	2100	2100	0
1/17/2025 11:24	64101	REFR_T1	0	2	2	0	0.25	0.25	-0.04	-0.08	0	0	0	0	0	0
1/17/2025 11:24	52502	PROG_T2	1	0	-1	0.3	0	-0.3	-0.53	-0.51	1	1	0	900	900	0
1/17/2025 11:25	63804	HEMP_T1	1	1	0	6.7	6.5	-0.2	0	0	0	0	0	0	0	0
1/17/2025 11:25	63801	HEMP_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
1/17/2025 11:25	63802	HEMP_T1	0	1	1	0	0.2	0.2	0.18	0.24	0	0	0	0	0	0
1/17/2025 11:25	64101	REFR_T1	0	2	2	0	0.25	0.25	-0.04	-0.08	0	0	0	0	0	0
1/17/2025 11:25	63803	HEMP_T1	2	3	1	0.25	0.37	0.12	0	0	0	0	0	0	0	0
1/17/2025 11:26	64101	REFR_T1	0	2	2	0	0.25	0.25	-0.02	-0.04	0	0	0	0	0	0
1/17/2025 11:26	16302	ALPA_T2	0	1	1	0	0.1	0.1	-0.58	-0.69	0	0	0	0	0	0
1/17/2025 11:28	46001	BERW_T1	0	0	0	0	0	0	0.92	0.87	0	0	0	0	0	0
1/17/2025 11:28	14204	EALL_T2	0	0	0	0	0	0	-1.03	-0.87	1	1	0	1200	1200	0
1/17/2025 11:30	28602	BLYT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 11:32	17805	GILB_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
1/17/2025 11:32	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 11:33	64802	MONE_T2	7	45	38	0.17	0.2	0.03	0	0	0	0	0	0	0	0
1/17/2025 11:33	45802	HEGI_T2	21	43	22	0.3	1.04	0.74	0	0	0	0	0	0	0	0
1/17/2025 11:33	64801	MONE_T2	4	9	5	0.1	0.19	0.09	0	0	0	0	0	0	0	0
1/17/2025 11:33	17805	GILB_T2	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
1/17/2025 11:36	63602	LETO_T1	1	8	7	0.2	0.21	0.01	-0.42	-0.44	0	0	0	0	0	0
1/17/2025 11:36	63601	LETO_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/17/2025 11:37	65702	RVIL_T2	5	1	-4	0.14	0.1	-0.04	-0.71	-0.68	0	0	0	0	0	0
1/17/2025 11:37	64101	REFR_T1	1	3	2	0.2	0.3	0.1	-0.12	-0.09	0	0	0	0	0	0
1/17/2025 11:37	54601	SUMM_T2	2	1	-1	0.4	0.1	-0.3	-1.78	-1.62	2	2	0	2100	2100	0
1/17/2025 11:37	65703	RVIL_T1	1	0	-1	1.7	0	-1.7	-0.24	-0.14	0	0	0	0	0	0
1/17/2025 11:38	65702	RVIL_T2	5	1	-4	0.14	0.1	-0.04	-0.71	-0.68	0	0	0	0	0	0
1/17/2025 11:38	64304	LINC_T2	1	2	1	0.9	0.35	-0.55	0	0	0	0	0	0	0	0
1/17/2025 11:38	64302	LINC_T2	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
1/17/2025 11:38	65205	PRIN_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
1/17/2025 11:38	65202	PRIN_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/17/2025 11:39	64101	REFR_T1	1	3	2	0.2	0.3	0.1	-0.04	-0.03	0	0	0	0	0	0
1/17/2025 11:40	66903	SHIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
1/17/2025 11:40	66902	SHIL_T2	0	2	2	0	0.15	0.15	-0.95	-0.97	0	0	0	0	0	0
1/17/2025 11:40	65702	RVIL_T2	5	1	-4	0.14	0.1	-0.04	-0.71	-0.68	0	0	0	0	0	0
1/17/2025 11:40	66901	SHIL_T2	17	55	38	0.11	0.17	0.06	0	0	0	0	0	0	0	0
1/17/2025 11:40	64101	REFR_T1	1	3	2	0.2	0.3	0.1	-0.04	-0.03	0	0	0	0	0	0
1/17/2025 11:41	64101	REFR_T1	1	3	2	0.2	0.3	0.1	-0.04	-0.03	0	0	0	0	0	0
1/17/2025 11:42	14603	SWHI_T1	1	0	-1	0.5	0	-0.5	-1.58	-1.59	2	2	0	1200	1200	0
1/17/2025 11:42	10801	OHHI_T1	1	1	0	0.6	0.5	-0.1	-1.73	-1.17	3	2	-1	2100	1500	-600
1/17/2025 11:42	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/17/2025 11:44	11901	ETEX_T2	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
1/17/2025 11:44	14802	TREI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/17/2025 11:44	62101	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/17/2025 11:44	62102	ELAN_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/17/2025 11:44	62103	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/17/2025 11:44	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
1/17/2025 11:44	62105	ELAN_T1	5	54	49	0.1	0.1	0	0	0	0	0	0	0	0	0
1/17/2025 11:44	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0.57	0.52	0	0	0	0	0	0
1/17/2025 11:44	62106	ELAN_T1	1	1	0	0.3	0.5	0.2	1.15	1.17	0	0	0	0	0	0
1/17/2025 11:45	62106	ELAN_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/17/2025 11:45	62101	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/17/2025 11:45	62105	ELAN_T1	2	58	56	0.1	0.11	0.01	0.46	0.47	0	0	0	0	0	0
1/17/2025 11:45	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/17/2025 11:45	62102	ELAN_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/17/2025 11:46	62105	ELAN_T1	2	58	56	0.1	0.11	0.01	0.46	0.47	0	0	0	0	0	0
1/17/2025 11:46	62106	ELAN_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/17/2025 11:46	62101	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/17/2025 11:46	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
1/17/2025 11:46	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/17/2025 11:46	62102	ELAN_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/17/2025 11:47	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.25	0	0	0	0	0	0
1/17/2025 11:47	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/17/2025 11:47	52402	GRPA_T2	0	5	5	0	0.55	0.55	0	0	0	0	0	0	0	0
1/17/2025 11:47	52403	GRPA_T2	3	8	5	0.37	0.4	0.03	-0.06	-0.03	0	0	0	0	0	0
1/17/2025 11:47	52401	GRPA_T2	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
1/17/2025 11:48	13303	ORVI_T1	0	0	0	0	0	0	1.09	1.03	0	0	0	0	0	0
1/17/2025 11:48	14801	TREI_T2	0	0	0	0	0	0	0.57	0.52	0	0	0	0	0	0
1/17/2025 11:48	20601	GRWO_T2	11	11	0	0.52	0.58	0.06	0.56	0.55	0	0	0	0	0	0
1/17/2025 11:48	17401	FOHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 11:48	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/17/2025 11:48	64101	REFR_T1	2	2	0	0.25	0.4	0.15	-0.04	-0.03	0	0	0	0	0	0
1/17/2025 11:48	54506	ENOL_T2	0	0	0	0	0	0	0.36	0.3	0	1	1	0	600	600
1/17/2025 11:48	14802	TREI_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
1/17/2025 11:49	64101	REFR_T1	2	2	0	0.25	0.4	0.15	-0.04	-0.03	0	0	0	0	0	0
1/17/2025 11:50	52001	LING_T1	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
1/17/2025 11:51	44201	POIN_T1	85	83	-2	0.24	0.22	-0.02	-1.94	-1.88	2	2	0	2100	2100	0
1/17/2025 11:53	64101	REFR_T1	2	2	0	0.25	0.4	0.15	-0.06	-0.1	0	0	0	0	0	0
1/17/2025 11:53	65206	PRIN_T4	1	4	3	4.8	0.1	-4.7	0	0	0	0	0	0	0	0
1/17/2025 11:53	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 11:53	65207	PRIN_T4	2	12	10	0.75	0.22	-0.53	0	0	0	0	0	0	0	0
1/17/2025 11:54	13701	SCHN_T2	7	7	0	0.17	0.24	0.07	0	0	0	0	0	0	0	0
1/17/2025 11:54	13704	SCHN_T2	15	20	5	0.18	0.22	0.04	-0.88	-0.94	0	0	0	0	0	0
1/17/2025 11:55	64101	REFR_T1	2	2	0	0.25	0.4	0.15	-0.03	-0.05	0	0	0	0	0	0
1/17/2025 11:56	64101	REFR_T1	2	2	0	0.25	0.4	0.15	-0.06	-0.1	0	0	0	0	0	0
1/17/2025 11:57	42501	ALTA_T2	3	3	0	0.1	0.1	0	0.06	0.04	1	1	0	600	600	0
1/17/2025 11:57	42503	ALTA_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 11:57	42504	ALTA_T2	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/17/2025 11:58	42503	ALTA_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 11:58	42504	ALTA_T2	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/17/2025 11:58	42501	ALTA_T2	3	3	0	0.1	0.1	0	0.06	0.04	1	1	0	600	600	0
1/17/2025 12:00	60904	DONG_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
1/17/2025 12:00	48901	FOSP_T2	22	23	1	0.41	0.32	-0.09	0	0	0	0	0	0	0	0
1/17/2025 12:00	48902	FOSP_T2	44	28	-16	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
1/17/2025 12:00	60902	DONG_T2	1	0	-1	0.1	0	-0.1	0.66	0.59	0	0	0	0	0	0
1/17/2025 12:00	60901	DONG_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/17/2025 12:02	63602	LETO_T1	2	7	5	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
1/17/2025 12:02	63601	LETO_T1	1	7	6	0.2	0.21	0.01	1.1	0.96	1	1	0	900	900	0
1/17/2025 12:03	63601	LETO_T1	1	7	6	0.2	0.21	0.01	1.1	0.96	1	1	0	900	900	0
1/17/2025 12:03	63602	LETO_T1	2	7	5	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
1/17/2025 12:10	42701	AUGU_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
1/17/2025 12:10	64101	REFR_T1	2	2	0	0.4	0.4	0	-0.05	-0.05	0	0	0	0	0	0
1/17/2025 12:11	64101	REFR_T1	2	2	0	0.4	0.4	0	-0.1	-0.1	0	0	0	0	0	0
1/17/2025 12:12	64101	REFR_T1	2	2	0	0.4	0.4	0	-0.05	-0.05	0	0	0	0	0	0
1/17/2025 12:13	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 12:14	42701	AUGU_T1	1	1	0	0.3	0.9	0.6	0	0	2	2	0	1800	1800	0
1/17/2025 12:15	40802	EXCH_T2	23	0	-23	0.14	0	-0.14	0	0	0	0	0	0	0	0
1/17/2025 12:15	40801	EXCH_T2	4	2	-2	0.45	0.35	-0.1	-0.41	-0.45	1	1	0	1200	1200	0
1/17/2025 12:15	46802	HEPB_T1	2	4	2	0.95	0.6	-0.35	-1.25	-1.27	0	0	0	0	0	0
1/17/2025 12:15	42701	AUGU_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
1/17/2025 12:16	59003	MIFF_T1	1	0	-1	0.2	0	-0.2	-0.18	0.37	0	0	0	0	0	0
1/17/2025 12:16	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/17/2025 12:16	59001	MIFF_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/17/2025 12:16	62106	ELAN_T1	1	1	0	0.5	0.4	-0.1	1.24	1.15	0	0	0	0	0	0
1/17/2025 12:16	59002	MIFF_T1	5	1	-4	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
1/17/2025 12:16	62102	ELAN_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
1/17/2025 12:16	62105	ELAN_T1	13	0	-13	0.12	0	-0.12	0	0	0	0	0	0	0	0
1/17/2025 12:17	62105	ELAN_T1	13	0	-13	0.12	0	-0.12	0.46	0.45	0	0	0	0	0	0
1/17/2025 12:17	52403	GRPA_T2	5	17	12	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
1/17/2025 12:17	46206	DANV_T2	2	1	-1	0.2	0.1	-0.1	5.4	5.38	2	2	0	2400	2400	0
1/17/2025 12:17	62102	ELAN_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
1/17/2025 12:17	52404	GRPA_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
1/17/2025 12:17	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/17/2025 12:17	62106	ELAN_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/17/2025 12:17	52402	GRPA_T2	5	20	15	0.48	0.34	-0.14	-0.84	-0.86	0	0	0	0	0	0
1/17/2025 12:17	52401	GRPA_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/17/2025 12:18	52404	GRPA_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
1/17/2025 12:18	52403	GRPA_T2	5	17	12	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
1/17/2025 12:18	52401	GRPA_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
1/17/2025 12:18	52402	GRPA_T2	5	20	15	0.48	0.34	-0.14	-0.84	-0.86	0	0	0	0	0	0
1/17/2025 12:20	46206	DANV_T2	2	1	-1	0.2	0.1	-0.1	2.7	2.69	1	1	0	1200	1200	0
1/17/2025 12:28	11904	ETEX_T2	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
1/17/2025 12:30	11904	ETEX_T2	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
1/17/2025 12:32	10805	CHHI_T2	1	1	0	7.6	7.5	-0.1	-0.97	-1.02	1	1	0	600	600	0
1/17/2025 12:32	14802	TREI_T2	4	0	-4	0.28	0	-0.28	0.43	0.41	0	0	0	0	0	0
1/17/2025 12:32	14801	TREI_T2	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
1/17/2025 12:36	58402	MORO_T1	0	0	0	0	0	0	0.03	0.03	2	2	0	1500	1500	0
1/17/2025 12:36	58401	MORO_T1	3	0	-3	0.13	0	-0.13	-0.99	-0.97	1	1	0	600	600	0
1/17/2025 12:36	64204	KINZ_T1	17	19	2	0.38	0.41	0.03	0	0	0	0	0	0	0	0
1/17/2025 12:36	64202	KINZ_T1	3	2	-1	0.37	0.15	-0.22	0.87	0.76	0	0	0	0	0	0
1/17/2025 12:36	13704	SCHN_T2	40	2	-38	0.28	0.1	-0.18	-0.36	-0.36	0	0	0	0	0	0
1/17/2025 12:36	13701	SCHN_T2	9	0	-9	0.29	0	-0.29	0	0	0	0	0	0	0	0
1/17/2025 12:37	56501	ROCK_T2	2	4	2	0.25	0.2	-0.05	-2.18	-2.1	0	0	0	0	0	0
1/17/2025 12:39	66203	SISP_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/17/2025 12:39	66201	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 12:39	64101	REFR_T1	2	3	1	0.35	0.3	-0.05	-0.04	-0.06	0	0	0	0	0	0
1/17/2025 12:40	58401	MORO_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
1/17/2025 12:42	60803	BUCK_T1	15	17	2	0.26	0.51	0.25	-1.56	-1.5	3	3	0	1800	1800	0
1/17/2025 12:42	60801	BUCK_T1	11	28	17	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
1/17/2025 12:43	60803	BUCK_T1	15	17	2	0.26	0.51	0.25	-0.52	-0.5	1	1	0	600	600	0
1/17/2025 12:43	60801	BUCK_T1	11	28	17	0.28	0.25	-0.03	-0.22	-0.16	0	0	0	0	0	0
1/17/2025 12:44	60801	BUCK_T1	11	28	17	0.28	0.25	-0.03	-0.43	-0.32	0	0	0	0	0	0
1/17/2025 12:44	60803	BUCK_T1	15	17	2	0.26	0.51	0.25	-0.52	-0.5	1	1	0	600	600	0
1/17/2025 12:45	60801	BUCK_T1	28	24	-4	0.24	0.25	0.01	-0.22	-0.16	0	0	0	0	0	0
1/17/2025 12:45	60803	BUCK_T1	16	18	2	0.44	0.47	0.03	0	0	0	0	0	0	0	0
1/17/2025 12:46	16103	BING_T2	0	0	0	0	0	0	-1.61	-1.61	1	1	0	900	900	0
1/17/2025 12:46	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 12:47	64904	MILL_T1	0	1	1	0	0	0	0.7	0.59	0	0	0	0	0	0
1/17/2025 12:49	64305	LINC_T1	4	3	-1	0.48	0.4	-0.08	-0.43	-0.46	0	0	0	0	0	0
1/17/2025 12:54	64101	REFR_T1	1	3	2	0.5	0.23	-0.27	-0.06	-0.07	0	0	0	0	0	0
1/17/2025 12:56	42701	AUGU_T1	1	1	0	0.7	0.8	0.1	0	0	2	2	0	1800	1800	0
1/17/2025 12:57	61803	EELI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/17/2025 12:57	61802	EELI_T2	10	22	12	0.11	0.13	0.02	-0.26	-0.23	0	0	0	0	0	0
1/17/2025 12:57	61801	EELI_T2	24	26	2	0.39	0.39	0	0	0	0	0	0	0	0	0
1/17/2025 12:58	61801	EELI_T2	24	26	2	0.39	0.39	0	0	0	0	0	0	0	0	0
1/17/2025 12:58	61803	EELI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/17/2025 12:58	64101	REFR_T1	1	3	2	0.5	0.23	-0.27	-0.06	-0.07	0	0	0	0	0	0
1/17/2025 12:58	61802	EELI_T2	10	22	12	0.11	0.13	0.02	0	0	0	0	0	0	0	0
1/17/2025 12:59	41901	REED_T1	9	9	0	0.9	1.04	0.14	0	0	0	0	0	0	0	0
1/17/2025 12:59	61801	EELI_T2	24	26	2	0.39	0.39	0	-0.35	-0.34	0	0	0	0	0	0
1/17/2025 12:59	41903	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 12:59	61802	EELI_T2	10	22	12	0.11	0.13	0.02	-0.26	-0.23	0	0	0	0	0	0
1/17/2025 12:59	61803	EELI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/17/2025 13:00	61801	EELI_T2	22	25	3	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
1/17/2025 13:00	61802	EELI_T2	10	21	11	0.13	0.13	0	-0.26	-0.23	0	0	0	0	0	0
1/17/2025 13:00	61803	EELI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/17/2025 13:01	61802	EELI_T2	10	21	11	0.13	0.13	0	0	0	0	0	0	0	0	0
1/17/2025 13:01	61803	EELI_T2	0	1	1	0	0.2	0.2	0.94	1.03	0	0	0	0	0	0
1/17/2025 13:01	20201	JERM_T1	0	0	0	0	0	0	-0.12	-0.25	2	2	0	2400	2400	0
1/17/2025 13:01	61801	EELI_T2	22	25	3	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
1/17/2025 13:02	61803	EELI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/17/2025 13:02	61802	EELI_T2	10	21	11	0.13	0.13	0	-0.52	-0.46	0	0	0	0	0	0
1/17/2025 13:02	61801	EELI_T2	22	25	3	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
1/17/2025 13:10	64101	REFR_T1	3	3	0	0.2	0.17	-0.03	-0.07	-0.07	0	0	0	0	0	0
1/17/2025 13:16	61503	EPET_T1	0	0	0	0	0	0	-0.37	-0.42	0	0	0	0	0	0
1/17/2025 13:16	55002	NEWP_T1	7	6	-1	1.17	1.53	0.36	-0.18	-0.19	0	0	0	0	0	0
1/17/2025 13:18	61801	EELI_T2	25	12	-13	0.36	0.4	0.04	-0.34	-0.37	0	0	0	0	0	0
1/17/2025 13:18	61802	EELI_T2	21	0	-21	0.13	0	-0.13	-0.23	-0.25	0	0	0	0	0	0
1/17/2025 13:18	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 13:18	61803	EELI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/17/2025 13:18	50502	MECH_T1	1	1	0	1.9	1.5	-0.4	0	0	0	0	0	0	0	0
1/17/2025 13:18	50506	MECH_T1	0	0	0	0	0	0	0.2	0.11	0	0	0	0	0	0
1/17/2025 13:18	50501	MECH_T1	4	4	0	1.28	0.95	-0.33	0	0	0	0	0	0	0	0
1/17/2025 13:19	50502	MECH_T1	1	1	0	1.9	1.5	-0.4	0	0	0	0	0	0	0	0
1/17/2025 13:19	50501	MECH_T1	4	4	0	1.28	0.95	-0.33	0	0	0	0	0	0	0	0
1/17/2025 13:19	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 13:19	50506	MECH_T1	0	0	0	0	0	0	0.4	0.23	0	0	0	0	0	0
1/17/2025 13:21	50506	MECH_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
1/17/2025 13:21	50502	MECH_T1	1	1	0	1.9	1.5	-0.4	0	0	0	0	0	0	0	0
1/17/2025 13:21	50501	MECH_T1	4	4	0	1.28	0.95	-0.33	0	0	0	0	0	0	0	0
1/17/2025 13:21	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 13:22	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 13:22	64802	MONE_T2	140	164	24	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
1/17/2025 13:22	50502	MECH_T1	1	1	0	1.9	1.5	-0.4	0	0	0	0	0	0	0	0
1/17/2025 13:22	50501	MECH_T1	4	4	0	1.28	0.95	-0.33	0	0	0	0	0	0	0	0
1/17/2025 13:22	64801	MONE_T2	36	10	-26	0.26	0.2	-0.06	0.32	0.35	0	0	0	0	0	0
1/17/2025 13:22	50506	MECH_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
1/17/2025 13:22	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 13:23	50501	MECH_T1	4	4	0	1.28	0.95	-0.33	0	0	0	0	0	0	0	0
1/17/2025 13:23	50506	MECH_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
1/17/2025 13:23	64802	MONE_T2	140	164	24	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
1/17/2025 13:23	64801	MONE_T2	36	10	-26	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
1/17/2025 13:23	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 13:23	50502	MECH_T1	1	1	0	1.9	1.5	-0.4	0	0	0	0	0	0	0	0
1/17/2025 13:24	64101	REFR_T1	2	2	0	0.2	0.15	-0.05	-0.14	-0.21	0	0	0	0	0	0
1/17/2025 13:25	64101	REFR_T1	2	2	0	0.2	0.15	-0.05	-0.07	-0.11	0	0	0	0	0	0
1/17/2025 13:28	61802	EELI_T2	21	0	-21	0.13	0	-0.13	0	0	0	0	0	0	0	0
1/17/2025 13:28	61803	EELI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/17/2025 13:28	61801	EELI_T2	25	12	-13	0.36	0.4	0.04	-0.37	-0.37	0	0	0	0	0	0
1/17/2025 13:36	13302	ORVI_T2	0	0	0	0	0	0	1.57	1.48	0	0	0	0	0	0
1/17/2025 13:40	44301	BEAV_T2	1	0	-1	0.4	0	-0.4	-0.43	-0.25	1	1	0	600	600	0
1/17/2025 13:40	10801	CHHI_T1	3	5	2	0.37	0.22	-0.15	-1.29	-1.54	2	2	0	1500	1500	0
1/17/2025 13:41	55105	WERT_T1	0	0	0	0	0	0	-0.5	-0.54	1	1	0	900	900	0
1/17/2025 13:42	44301	BEAV_T2	1	0	-1	0.4	0	-0.4	-0.43	-0.25	1	1	0	600	600	0
1/17/2025 13:50	43302	WATS_T2	0	2	2	0	0.1	0.1	-0.04	-0.01	2	2	0	1800	1800	0
1/17/2025 13:51	58302	NOTT_T1	0	0	0	0	0	0	-0.49	-0.45	1	1	0	1200	1200	0
1/17/2025 13:56	60201	ATGL_T2	7	36	29	0.19	0.18	-0.01	-0.11	-0.23	0	0	0	0	0	0
1/17/2025 13:57	60201	ATGL_T2	7	36	29	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
1/17/2025 13:58	46504	LOHA_T1	2	1	-1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/17/2025 13:58	46506	LOHA_T1	3	3	0	2.43	2.87	0.44	0	0	0	0	0	0	0	0
1/17/2025 13:58	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 13:58	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
1/17/2025 13:59	60201	ATGL_T2	7	36	29	0.19	0.18	-0.01	-0.11	-0.23	0	0	0	0	0	0
1/17/2025 14:09	42503	ALTA_T2	2	6	4	0.15	0.15	0	0	0	0	0	0	0	0	0
1/17/2025 14:09	42504	ALTA_T2	2	4	2	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
1/17/2025 14:09	42501	ALTA_T2	26	43	17	0.15	0.2	0.05	0.07	0.06	1	1	0	600	600	0
1/17/2025 14:10	40201	BEGA_T2	6	5	-1	0.32	0.32	0	0	0	0	0	0	0	0	0
1/17/2025 14:10	20403	ASHF_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/17/2025 14:10	20401	ASHF_T2	4	8	4	0.28	0.45	0.17	-0.22	-0.2	0	0	0	0	0	0
1/17/2025 14:10	20402	ASHF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/17/2025 14:14	42503	ALTA_T2	2	6	4	0.15	0.15	0	0	0	0	0	0	0	0	0
1/17/2025 14:14	20402	ASHF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/17/2025 14:14	42504	ALTA_T2	2	4	2	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
1/17/2025 14:14	20401	ASHF_T2	4	8	4	0.28	0.45	0.17	0	0	0	0	0	0	0	0
1/17/2025 14:14	20403	ASHF_T2	0	2	2	0	0.2	0.2	0.24	0.2	0	0	0	0	0	0
1/17/2025 14:14	42501	ALTA_T2	26	43	17	0.15	0.2	0.05	0.14	0.12	2	2	0	1200	1200	0
1/17/2025 14:20	65001	NEFF_T2	187	219	32	0.23	0.28	0.05	-1.03	-1.07	1	1	0	1200	1200	0
1/17/2025 14:25	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 14:26	53901	HALI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/17/2025 14:26	53903	HALI_T2	2	2	0	1.25	1.3	0.05	0	0	0	0	0	0	0	0
1/17/2025 14:26	53902	HALI_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
1/17/2025 14:27	60201	ATGL_T2	34	61	27	0.17	0.23	0.06	-0.22	-0.15	0	0	0	0	0	0
1/17/2025 14:27	45501	DERR_T2	0	0	0	0	0	0	0.21	0.2	2	2	0	1800	1800	0
1/17/2025 14:28	14603	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/17/2025 14:35	46203	DANV_T2	0	0	0	0	0	0	-0.53	-0.48	0	0	0	0	0	0
1/17/2025 14:36	46203	DANV_T2	0	0	0	0	0	0	-0.53	-0.48	0	0	0	0	0	0
1/17/2025 14:37	57201	ROSS_T1	10	15	5	0.13	0.13	0	0	0	0	0	0	0	0	0
1/17/2025 14:37	57205	ROSS_T1	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
1/17/2025 14:46	54502	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/17/2025 14:46	54505	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
1/17/2025 14:46	54501	ENOL_T2	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
1/17/2025 14:46	54504	ENOL_T2	0	0	0	0	0	0	-1.04	-1.06	1	1	0	600	600	0
1/17/2025 14:47	54505	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
1/17/2025 14:47	54501	ENOL_T2	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
1/17/2025 14:47	54504	ENOL_T2	0	0	0	0	0	0	-1.04	-1.06	1	1	0	600	600	0
1/17/2025 14:47	54502	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/17/2025 15:00	22002	BOHE_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
1/17/2025 15:01	52006	LING_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/17/2025 15:01	52002	LING_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/17/2025 15:01	52004	LING_T2	2	2	0	6.2	6.4	0.2	0.28	0.26	0	0	0	0	0	0
1/17/2025 15:02	52006	LING_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/17/2025 15:02	52002	LING_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/17/2025 15:02	52004	LING_T2	2	2	0	6.2	6.4	0.2	0.28	0.26	0	0	0	0	0	0
1/17/2025 15:09	57205	ROSS_T1	0	20	20	0	0.1	0.1	-0.17	-0.2	0	0	0	0	0	0
1/17/2025 15:09	57201	ROSS_T1	15	32	17	0.13	0.16	0.03	0	0	0	0	0	0	0	0
1/17/2025 15:09	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 15:11	57205	ROSS_T1	0	20	20	0	0.1	0.1	-0.17	-0.2	0	0	0	0	0	0
1/17/2025 15:11	57201	ROSS_T1	15	32	17	0.13	0.16	0.03	0	0	0	0	0	0	0	0
1/17/2025 15:16	11904	ETEX_T2	0	0	0	0	0	0	-0.77	-0.79	0	0	0	0	0	0
1/17/2025 15:18	44502	HAMI_T2	1	1	0	2.6	3.1	0.5	0	0	0	0	0	0	0	0
1/17/2025 15:18	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 15:18	13704	SCHN_T2	0	0	0	0	0	0	-0.35	-0.39	0	0	0	0	0	0
1/17/2025 15:19	44502	HAMI_T2	1	1	0	2.6	3.1	0.5	0	0	0	0	0	0	0	0
1/17/2025 15:19	44505	HAMI_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
1/17/2025 15:23	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 15:24	14204	EALL_T2	0	0	0	0	0	0	-0.76	-0.75	1	1	0	1200	1200	0
1/17/2025 15:35	63501	HEID_TBK1-2	38	47	9	0.22	0.39	0.17	-0.28	-0.33	1	1	0	900	900	0
1/17/2025 15:39	67401	WAKE_T2	35	27	-8	0.29	0.19	-0.1	-1.06	-1.06	0	0	0	0	0	0
1/17/2025 15:39	67402	WAKE_T2	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/17/2025 15:42	67401	WAKE_T2	35	27	-8	0.29	0.19	-0.1	0	0	0	0	0	0	0	0
1/17/2025 15:42	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
1/17/2025 15:54	44201	POIN_T1	96	101	5	0.33	0.3	-0.03	-1.86	-1.87	2	2	0	2100	2100	0
1/17/2025 15:59	29402	BELT_T1	1	1	0	6.1	5.8	-0.3	0	0	0	0	0	0	0	0
1/17/2025 15:59	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/17/2025 16:10	67106	SPRI_T2	0	0	0	0	0	0	-2.5	-2.48	2	2	0	1800	1800	0
1/17/2025 16:11	67106	SPRI_T2	0	0	0	0	0	0	-1.25	-1.24	1	1	0	900	900	0
1/17/2025 16:18	52202	DEVO_T2	0	0	0	0	0	0	-0.04	-0.07	0	0	0	0	0	0
1/17/2025 16:19	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 16:22	54603	SUMM_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/17/2025 16:22	54601	SUMM_T2	7	2	-5	0.37	0.4	0.03	-1.82	-1.82	2	2	0	2100	2100	0
1/17/2025 16:33	64203	KINZ_T1	0	0	0	0	0	0	-0.22	-0.33	1	1	0	600	600	0
1/17/2025 16:33	64204	KINZ_T1	1	5	4	1	0.34	-0.66	0	0	0	0	0	0	0	0
1/17/2025 16:33	64201	KINZ_T1	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
1/17/2025 16:33	64202	KINZ_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
1/17/2025 16:45	44301	BEAV_T2	0	0	0	0	0	0	-0.77	-0.74	1	1	0	600	600	0
1/17/2025 16:48	64202	KINZ_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
1/17/2025 16:48	64204	KINZ_T1	2	5	3	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
1/17/2025 16:48	64201	KINZ_T1	5	5	0	0.18	0.3	0.12	0	0	0	0	0	0	0	0
1/17/2025 16:48	64203	KINZ_T1	0	0	0	0	0	0	-0.33	-0.37	1	1	0	600	600	0
1/17/2025 18:55	26704	HEML_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
1/17/2025 19:06	14801	TREI_T2	1	1	0	0.5	0	-0.5	0.64	0.65	0	0	0	0	0	0
1/17/2025 19:06	14201	EALL_T1	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
1/17/2025 19:06	14802	TREI_T2	0	7	7	0	0	0	0.54	0.54	0	0	0	0	0	0
1/17/2025 19:07	22002	BOHE_T1	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
1/17/2025 19:08	28602	BLYT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:08	42701	AUGU_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/17/2025 19:08	11901	ETEX_T2	0	0	0	0	0	0	0.38	0.33	0	0	0	0	0	0
1/17/2025 19:08	16103	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:08	16302	ALPA_T2	0	0	0	0	0	0	-0.65	-0.53	0	0	0	0	0	0
1/17/2025 19:08	16101	BING_T2	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
1/17/2025 19:09	61801	EELI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/17/2025 19:09	66903	SHIL_T2	0	0	0	0	0	0	-1.23	-1.23	0	0	0	0	0	0
1/17/2025 19:09	52004	LING_T2	2	3	1	5.05	5.2	0.15	0.3	0.3	0	0	0	0	0	0
1/17/2025 19:09	61802	EELI_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
1/17/2025 19:09	42701	AUGU_T1	1	1	0	0.2	0.1	-0.1	0	0	2	2	0	1800	1800	0
1/17/2025 19:09	65001	NEFF_T2	173	251	78	0.21	0.72	0.51	-1.26	-1.19	1	1	0	1200	1200	0
1/17/2025 19:09	29402	BELT_T1	3	11	8	2.13	0.75	-1.38	0	0	0	0	0	0	0	0
1/17/2025 19:09	65003	NEFF_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:09	46802	HEPB_T1	1	1	0	1	1.2	0.2	-1.15	-1.19	0	0	0	0	0	0
1/17/2025 19:10	44201	POIN_T1	54	40	-14	0.2	0.15	-0.05	-1.98	-2.01	2	2	0	2100	2100	0
1/17/2025 19:10	52204	DEVO_T2	4	1	-3	0.65	0	-0.65	0	0	0	0	0	0	0	0
1/17/2025 19:10	16103	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:10	65702	RVIL_T2	0	0	0	0	0	0	-0.84	-0.89	0	0	0	0	0	0
1/17/2025 19:10	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/17/2025 19:10	54203	PENN_T1	18	18	0	0.72	0.76	0.04	0.62	0.64	0	0	0	0	0	0
1/17/2025 19:10	16102	BING_T2	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
1/17/2025 19:10	54601	SUMM_T2	1	0	-1	0.1	0	-0.1	-1.6	-1.74	2	2	0	2100	2100	0
1/17/2025 19:10	67106	SPRI_T2	0	0	0	0	0	0	-2.48	-2.46	2	2	0	1800	1800	0
1/17/2025 19:10	54201	PENN_T1	3	3	0	0.67	1.27	0.6	0	0	0	0	0	0	0	0
1/17/2025 19:10	13303	ORVI_T1	0	0	0	0	0	0	0.81	0.79	0	0	0	0	0	0
1/17/2025 19:10	63501	HEID_TBK1-2	81	78	-3	0.47	0.46	-0.01	-0.88	-0.94	2	2	0	1800	1800	0
1/17/2025 19:10	29402	BELT_T1	3	11	8	2.13	0.75	-1.38	0	0	0	0	0	0	0	0
1/17/2025 19:11	15603	NSTR_T2	0	0	0	0	0	0	-1.04	-1.08	0	0	0	0	0	0
1/17/2025 19:11	15601	NSTR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/17/2025 19:11	17805	GILB_T2	0	0	0	0	0	0	-0.77	0.16	0	0	0	0	0	0
1/17/2025 19:11	42503	ALTA_T2	8	2	-6	0.13	0.15	0.02	0	0	0	0	0	0	0	0
1/17/2025 19:11	61802	EELI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:11	42504	ALTA_T2	3	2	-1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
1/17/2025 19:11	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:11	42501	ALTA_T2	13	3	-10	0.12	0.1	-0.02	0.09	0	3	3	0	1800	1800	0
1/17/2025 19:11	67001	STHI_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
1/17/2025 19:11	61801	EELI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/17/2025 19:11	67002	STHI_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
1/17/2025 19:12	42501	ALTA_T2	13	3	-10	0.12	0.1	-0.02	0.03	0	1	1	0	600	600	0
1/17/2025 19:12	14704	TREX_T1	1	1	0	8.2	7.9	-0.3	0	0	0	0	0	0	0	0
1/17/2025 19:12	14204	EALL_T2	2	2	0	0.35	0	-0.35	-0.83	-0.77	1	1	0	1200	1200	0
1/17/2025 19:12	46206	DANV_T2	0	0	0	0	0	0	1.62	1.52	2	2	0	2100	2100	0
1/17/2025 19:12	40601	PIGR_T1	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
1/17/2025 19:12	42504	ALTA_T2	3	2	-1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
1/17/2025 19:12	60801	BUCK_T1	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
1/17/2025 19:12	17401	FOHI_T1	0	0	0	0	0	0	-2.02	-1.98	0	0	0	0	0	0
1/17/2025 19:12	42503	ALTA_T2	8	2	-6	0.13	0.15	0.02	0	0	0	0	0	0	0	0
1/17/2025 19:12	13701	SCHN_T2	0	0	0	0	0	0	0	-0.02	1	1	0	600	600	0
1/17/2025 19:12	13302	ORVI_T2	0	0	0	0	0	0	1.51	1.54	0	0	0	0	0	0
1/17/2025 19:12	46203	DANV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/17/2025 19:12	14705	TREX_T1	1	1	0	1.1	0	-1.1	-0.29	-0.29	0	0	0	0	0	0
1/17/2025 19:12	52502	PROG_T2	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
1/17/2025 19:12	11904	ETEX_T2	0	0	0	0	0	0	-1.49	-1.47	0	0	0	0	0	0
1/17/2025 19:12	40603	PIGR_T1	1	0	-1	4.6	0	-4.6	0	0	0	0	0	0	0	0
1/17/2025 19:13	61801	EELI_T2	1	1	0	0.3	0.2	-0.1	-0.33	-0.31	0	0	0	0	0	0
1/17/2025 19:13	20401	ASHF_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/17/2025 19:13	60803	BUCK_T1	0	0	0	0	0	0	-0.47	-0.48	1	1	0	600	600	0
1/17/2025 19:13	20201	JERM_T1	0	0	0	0	0	0	1.39	1.37	0	0	0	0	0	0
1/17/2025 19:13	63501	HEID_TBK1-2	81	78	-3	0.47	0.46	-0.01	0	0	0	0	0	0	0	0
1/17/2025 19:13	54201	PENN_T1	3	3	0	0.67	1.27	0.6	-0.07	-0.08	0	0	0	0	0	0
1/17/2025 19:13	41902	REED_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:13	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/17/2025 19:13	29402	BELT_T1	3	11	8	2.13	0.75	-1.38	0	0	0	0	0	0	0	0
1/17/2025 19:13	67402	WAKE_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
1/17/2025 19:13	41901	REED_T1	9	9	0	0.93	1.02	0.09	0	0	0	0	0	0	0	0
1/17/2025 19:13	40802	EXCH_T2	5	2	-3	0.14	0.15	0.01	-0.19	-0.21	0	0	0	0	0	0
1/17/2025 19:13	54203	PENN_T1	18	18	0	0.72	0.76	0.04	0	0	0	0	0	0	0	0
1/17/2025 19:13	40801	EXCH_T2	3	4	1	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
1/17/2025 19:13	57203	ROSS_T1	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
1/17/2025 19:13	55002	NEWP_T1	3	5	2	0.7	0.54	-0.16	-0.2	-0.19	0	0	0	0	0	0
1/17/2025 19:13	60801	BUCK_T1	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
1/17/2025 19:13	66203	SISP_T2	0	0	0	0	0	0	-0.86	-0.87	1	1	0	1200	1200	0
1/17/2025 19:13	20403	ASHF_T2	0	1	1	0	0.8	0.8	0.56	0.55	0	0	0	0	0	0
1/17/2025 19:13	41903	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:13	52004	LING_T2	2	3	1	5.05	5.2	0.15	0.3	0.3	0	0	0	0	0	0
1/17/2025 19:13	66201	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:14	60404	DILL_T2	0	1	1	0	0	0	-0.51	-0.63	1	1	0	1200	1200	0
1/17/2025 19:14	44502	HAMI_T2	1	1	0	2.9	2.8	-0.1	0	0	0	0	0	0	0	0
1/17/2025 19:14	63501	HEID_TBK1-2	81	78	-3	0.47	0.46	-0.01	-0.44	-0.47	1	1	0	900	900	0
1/17/2025 19:14	65207	PRIN_T4	2	4	2	1.55	1.4	-0.15	0	0	0	0	0	0	0	0
1/17/2025 19:14	13503	MCMI_T2	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
1/17/2025 19:14	41902	REED_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:14	65702	RVIL_T2	0	0	0	0	0	0	-0.84	-0.89	0	0	0	0	0	0
1/17/2025 19:14	64801	MONE_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
1/17/2025 19:14	44501	HAMI_T2	8	10	2	0.13	0.14	0.01	0	0	0	0	0	0	0	0
1/17/2025 19:14	20401	ASHF_T2	1	1	0	0.3	0	-0.3	-0.18	-0.2	0	0	0	0	0	0
1/17/2025 19:14	11904	ETEX_T2	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
1/17/2025 19:14	20403	ASHF_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
1/17/2025 19:14	50506	MECH_T1	0	0	0	0	0	0	0	0.08	0	0	0	0	0	0
1/17/2025 19:14	50501	MECH_T1	4	4	0	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
1/17/2025 19:14	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:14	41901	REED_T1	9	9	0	0.93	1.02	0.09	0	0	0	0	0	0	0	0
1/17/2025 19:14	40201	BEGA_T2	4	5	1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
1/17/2025 19:14	61802	EELI_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
1/17/2025 19:14	13704	SCHN_T2	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
1/17/2025 19:14	16103	BING_T2	0	1	1	0	0	0	-1.5	-1.52	1	1	0	900	900	0
1/17/2025 19:14	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:14	61801	EELI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/17/2025 19:14	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:14	14802	TREI_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:14	10805	CHHI_T2	1	1	0	7.9	8.2	0.3	-0.85	-0.96	1	1	0	600	600	0
1/17/2025 19:14	15103	UPHA_T2	0	0	0	0	0	0	0.5	0.46	0	0	0	0	0	0
1/17/2025 19:14	64101	REFR_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
1/17/2025 19:14	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:14	62105	ELAN_T1	0	3	3	0	0.13	0.13	0.53	0.52	0	0	0	0	0	0
1/17/2025 19:14	50502	MECH_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
1/17/2025 19:14	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
1/17/2025 19:14	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:14	14801	TREI_T2	1	1	0	0.5	0	-0.5	0.64	0.65	0	0	0	0	0	0
1/17/2025 19:14	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:15	40801	EXCH_T2	3	4	1	0.3	0.3	0	-0.4	-0.37	1	1	0	1200	1200	0
1/17/2025 19:15	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:15	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:15	62105	ELAN_T1	0	4	4	0	0.15	0.15	0.53	0.52	0	0	0	0	0	0
1/17/2025 19:15	44505	HAMI_T2	0	0	0	0	0	0	-0.1	-0.17	0	0	0	0	0	0
1/17/2025 19:15	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:15	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:15	61802	EELI_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
1/17/2025 19:15	54505	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/17/2025 19:15	61801	EELI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/17/2025 19:15	67001	STHI_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:15	44201	POIN_T1	33	37	4	0.12	0.15	0.03	-1.98	-2.01	2	2	0	2100	2100	0
1/17/2025 19:15	57201	ROSS_T1	0	0	0	0	0	0	-0.56	-0.53	0	0	0	0	0	0
1/17/2025 19:15	66903	SHIL_T2	0	0	0	0	0	0	-1.23	-1.23	0	0	0	0	0	0
1/17/2025 19:15	44501	HAMI_T2	10	2	-8	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
1/17/2025 19:15	44502	HAMI_T2	1	1	0	2.7	2.8	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:15	63501	HEID_TBK1-2	72	80	8	0.45	0.5	0.05	-0.44	-0.47	1	1	0	900	900	0
1/17/2025 19:15	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:15	57502	LAWN_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:15	64101	REFR_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
1/17/2025 19:15	40802	EXCH_T2	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
1/17/2025 19:15	54506	ENOL_T2	0	0	0	0	0	0	0.49	0.49	1	1	0	600	600	0
1/17/2025 19:15	52502	PROG_T2	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
1/17/2025 19:16	54206	PENN_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
1/17/2025 19:16	14603	SWHI_T1	0	0	0	0	0	0	-1.56	-1.55	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/17/2025 19:16	42701	AUGU_T1	1	1	0	0.1	0.1	0	0	0	2	2	0	1800	1800	0
1/17/2025 19:16	62105	ELAN_T1	0	4	4	0	0.15	0.15	0.53	0.52	0	0	0	0	0	0
1/17/2025 19:16	14602	SWHI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/17/2025 19:16	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:16	44301	BEAV_T2	0	0	0	0	0	0	-0.69	-0.61	1	1	0	600	600	0
1/17/2025 19:16	10801	OHHI_T1	3	3	0	1.17	0	-1.17	-2.84	-2.82	4	4	0	3000	3000	0
1/17/2025 19:16	54203	PENN_T1	18	18	0	0.61	0.8	0.19	0	0	0	0	0	0	0	0
1/17/2025 19:16	52204	DEVO_T2	1	4	3	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/17/2025 19:16	60801	BUCK_T1	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
1/17/2025 19:16	60803	BUCK_T1	0	0	0	0	0	0	-0.47	-0.48	1	1	0	600	600	0
1/17/2025 19:16	52202	DEVO_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
1/17/2025 19:16	48901	FOSP_T2	1	4	3	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
1/17/2025 19:16	63501	HEID_TBK1-2	72	80	8	0.45	0.5	0.05	-0.88	-0.94	2	2	0	1800	1800	0
1/17/2025 19:16	62106	ELAN_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
1/17/2025 19:16	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:16	54201	PENN_T1	3	3	0	1.2	1.3	0.1	-0.07	-0.08	0	0	0	0	0	0
1/17/2025 19:16	14204	EALL_T2	2	0	-2	0.25	0	-0.25	-0.83	-0.77	1	1	0	1200	1200	0
1/17/2025 19:16	48902	FOSP_T2	7	7	0	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
1/17/2025 19:17	63601	LETO_T1	0	5	5	0	0.16	0.16	0.65	0.6	1	1	0	900	900	0
1/17/2025 19:17	42701	AUGU_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/17/2025 19:17	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:17	66902	SHIL_T2	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
1/17/2025 19:17	67106	SPRI_T2	0	0	0	0	0	0	-1.24	-1.23	1	1	0	900	900	0
1/17/2025 19:17	63804	HEMP_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
1/17/2025 19:17	63802	HEMP_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
1/17/2025 19:17	44301	BEAV_T2	0	0	0	0	0	0	-0.69	-0.61	1	1	0	600	600	0
1/17/2025 19:17	63602	LETO_T1	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
1/17/2025 19:17	57203	ROSS_T1	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
1/17/2025 19:18	50502	MECH_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
1/17/2025 19:18	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:18	61001	DONV_T1	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
1/17/2025 19:18	61801	EELI_T2	1	1	0	0.1	0.4	0.3	-0.33	-0.31	0	0	0	0	0	0
1/17/2025 19:18	65702	RVIL_T2	0	0	0	0	0	0	-0.84	-0.89	0	0	0	0	0	0
1/17/2025 19:18	50501	MECH_T1	4	4	0	0.23	0.33	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:18	46206	DANV_T2	0	0	0	0	0	0	1.62	1.52	2	2	0	2100	2100	0
1/17/2025 19:18	64204	KINZ_T1	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
1/17/2025 19:18	57201	ROSS_T1	0	0	0	0	0	0	-0.56	-0.53	0	0	0	0	0	0
1/17/2025 19:18	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:18	64201	KINZ_T1	4	4	0	0.13	0.25	0.12	0	0	0	0	0	0	0	0
1/17/2025 19:18	52204	DEVO_T2	1	4	3	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/17/2025 19:18	64305	LINC_T1	2	2	0	0.35	0.55	0.2	-0.55	-0.64	0	0	0	0	0	0
1/17/2025 19:18	64101	REFR_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
1/17/2025 19:18	17401	FOHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:18	54601	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:18	50506	MECH_T1	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0
1/17/2025 19:18	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:18	54603	SUMM_T2	0	0	0	0	0	0	-0.39	-0.4	1	1	0	900	900	0
1/17/2025 19:18	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:19	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:19	50501	MECH_T1	4	4	0	0.23	0.33	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:19	54203	PENN_T1	18	18	0	0.61	0.8	0.19	0.62	0.64	0	0	0	0	0	0
1/17/2025 19:19	61803	EELI_T2	0	0	0	0	0	0	0.77	0.76	0	0	0	0	0	0
1/17/2025 19:19	64204	KINZ_T1	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
1/17/2025 19:19	46501	LOHA_T1	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
1/17/2025 19:19	50506	MECH_T1	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0
1/17/2025 19:19	64201	KINZ_T1	4	4	0	0.13	0.25	0.12	0	0	0	0	0	0	0	0
1/17/2025 19:19	44502	HAMI_T2	1	1	0	2.7	2.8	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:19	44201	POIN_T1	33	37	4	0.12	0.15	0.03	-1.98	-2.01	2	2	0	2100	2100	0
1/17/2025 19:19	61801	EELI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/17/2025 19:19	44501	HAMI_T2	10	2	-8	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
1/17/2025 19:19	65703	RVIL_T1	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
1/17/2025 19:19	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:19	52502	PROG_T2	0	0	0	0	0	0	-0.88	-0.9	2	2	0	1800	1800	0
1/17/2025 19:19	46506	LOHA_T1	3	3	0	1.53	1.9	0.37	0	0	0	0	0	0	0	0
1/17/2025 19:19	64202	KINZ_T1	0	2	2	0	0.1	0.1	0.4	0.4	0	0	0	0	0	0
1/17/2025 19:19	60201	ATGL_T2	0	0	0	0	0	0	-0.12	-0.08	0	0	0	0	0	0
1/17/2025 19:19	54201	PENN_T1	3	3	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:19	46206	DANV_T2	0	0	0	0	0	0	1.62	1.52	2	2	0	2100	2100	0
1/17/2025 19:19	67402	WAKE_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
1/17/2025 19:19	50502	MECH_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
1/17/2025 19:19	54601	SUMM_T2	0	1	1	0	0.1	0.1	-1.6	-1.74	2	2	0	2100	2100	0
1/17/2025 19:19	46503	LOHA_T1	0	0	0	0	0	0	-0.55	-0.61	0	0	0	0	0	0
1/17/2025 19:19	57201	ROSS_T1	0	0	0	0	0	0	-0.56	-0.53	0	0	0	0	0	0
1/17/2025 19:19	46203	DANV_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
1/17/2025 19:20	13704	SCHN_T2	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
1/17/2025 19:20	58402	MORO_T1	0	0	0	0	0	0	0.41	0.35	2	2	0	1350	1350	0
1/17/2025 19:20	20601	GRWO_T2	1	1	0	2.1	3	0.9	0	0.01	0	0	0	0	0	0
1/17/2025 19:20	66505	SMAN_T2	3	3	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
1/17/2025 19:20	50506	MECH_T1	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0
1/17/2025 19:20	44201	POIN_T1	33	37	4	0.12	0.15	0.03	-1.98	-2.01	2	2	0	2100	2100	0
1/17/2025 19:20	46001	BERW_T1	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
1/17/2025 19:20	20603	GRWO_T2	23	24	1	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
1/17/2025 19:20	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:20	64201	KINZ_T1	4	4	0	0.13	0.25	0.12	0	0	0	0	0	0	0	0
1/17/2025 19:20	61503	EPET_T1	0	0	0	0	0	0	-1.01	-1.13	0	0	0	0	0	0
1/17/2025 19:20	13702	SCHN_T1	0	0	0	0	0	0	0.76	0.76	0	0	0	0	0	0
1/17/2025 19:20	13503	MCMI_T2	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
1/17/2025 19:20	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:20	45802	HEGI_T2	45	47	2	1.56	2.06	0.5	0	0	0	0	0	0	0	0
1/17/2025 19:20	64204	KINZ_T1	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
1/17/2025 19:20	50502	MECH_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
1/17/2025 19:20	54504	ENOL_T2	0	0	0	0	0	0	-2.02	-1.98	2	2	0	1200	1200	0
1/17/2025 19:20	50501	MECH_T1	4	4	0	0.23	0.33	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:20	64203	KINZ_T1	0	0	0	0	0	0	-0.34	-0.41	1	1	0	600	600	0
1/17/2025 19:20	64101	REFR_T1	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
1/17/2025 19:20	60803	BUCK_T1	0	0	0	0	0	0	-0.47	-0.48	1	1	0	600	600	0
1/17/2025 19:20	66903	SHIL_T2	0	0	0	0	0	0	-1.23	-1.23	0	0	0	0	0	0
1/17/2025 19:20	63501	HEID_TBK1-2	72	80	8	0.45	0.5	0.05	-0.44	-0.47	1	1	0	900	900	0
1/17/2025 19:20	54505	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/17/2025 19:20	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
1/17/2025 19:20	58401	MORO_T1	0	0	0	0	0	0	-0.97	-1.03	1	1	0	600	600	0
1/17/2025 19:21	45501	DERR_T2	1	4	3	0.3	0	-0.3	0.09	0.08	2	2	0	1800	1800	0
1/17/2025 19:21	40601	PIGR_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:21	60803	BUCK_T1	0	0	0	0	0	0	-0.94	-0.96	2	2	0	1200	1200	0
1/17/2025 19:21	64802	MONE_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
1/17/2025 19:21	57205	ROSS_T1	0	0	0	0	0	0	-0.17	-0.14	0	0	0	0	0	0
1/17/2025 19:21	59003	MIFF_T1	0	1	1	0	0.5	0.5	-0.41	0.25	0	0	0	0	0	0
1/17/2025 19:21	65702	RVIL_T2	0	0	0	0	0	0	-0.84	-0.89	0	0	0	0	0	0
1/17/2025 19:21	46203	DANV_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
1/17/2025 19:21	61801	EELI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/17/2025 19:21	43302	WATS_T2	2	4	2	0.15	0.2	0.05	-0.87	-0.9	2	2	0	1800	1800	0
1/17/2025 19:21	52001	LING_T1	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
1/17/2025 19:21	59002	MIFF_T1	2	4	2	0.25	0.3	0.05	0	0	0	0	0	0	0	0
1/17/2025 19:21	60201	ATGL_T2	0	0	0	0	0	0	-0.12	-0.08	0	0	0	0	0	0
1/17/2025 19:21	44201	POIN_T1	33	37	4	0.12	0.15	0.03	-3.96	-4.01	4	4	0	4200	4200	0
1/17/2025 19:21	61802	EELI_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
1/17/2025 19:21	56501	ROCK_T2	5	3	-2	0.6	0.7	0.1	-0.95	-0.92	0	0	0	0	0	0
1/17/2025 19:21	58302	NOTT_T1	0	0	0	0	0	0	-0.25	-0.37	1	1	0	1200	1200	0
1/17/2025 19:21	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:21	43304	WATS_T2	4	3	-1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
1/17/2025 19:22	50506	MECH_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
1/17/2025 19:22	10805	OHHI_T2	1	6	5	8.3	8.2	-0.1	-0.96	-0.94	1	1	0	600	600	0
1/17/2025 19:22	58401	MORO_T1	0	0	0	0	0	0	-1.03	-1.01	1	1	0	600	600	0
1/17/2025 19:22	42501	ALTA_T2	1	7	6	0.1	0.1	0	0	-0.01	1	1	0	600	600	0
1/17/2025 19:22	52402	GRPA_T2	0	5	5	0	0.2	0.2	-0.96	-1	0	0	0	0	0	0
1/17/2025 19:22	42503	ALTA_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
1/17/2025 19:22	64101	REFR_T1	0	0	0	0	0	0	0.15	0.12	0	0	0	0	0	0
1/17/2025 19:22	42504	ALTA_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
1/17/2025 19:22	50502	MECH_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
1/17/2025 19:22	52403	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/17/2025 19:22	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:22	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:22	57201	ROSS_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
1/17/2025 19:22	50501	MECH_T1	4	4	0	0.23	0.33	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:22	46206	DANV_T2	0	0	0	0	0	0	1.52	1.57	2	2	0	2100	2100	0
1/17/2025 19:22	52403	GRPA_T2	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
1/17/2025 19:22	60801	BUCK_T1	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
1/17/2025 19:22	67402	WAKE_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
1/17/2025 19:22	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:22	61801	EELI_T2	1	1	0	0.1	0.4	0.3	-0.31	-0.32	0	0	0	0	0	0
1/17/2025 19:23	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:23	52403	GRPA_T2	1	0	-1	0.3	0	-0.3	-0.05	-0.12	0	0	0	0	0	0
1/17/2025 19:23	62105	ELAN_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
1/17/2025 19:23	55105	WERT_T1	0	0	0	0	0	0	-0.43	-0.43	1	1	0	900	900	0
1/17/2025 19:23	52402	GRPA_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
1/17/2025 19:23	44201	POIN_T1	33	37	4	0.12	0.15	0.03	-2.01	-1.94	2	2	0	2100	2100	0
1/17/2025 19:23	58401	MORO_T1	0	0	0	0	0	0	-2.06	-2.02	2	2	0	1200	1200	0
1/17/2025 19:23	55002	NEWP_T1	3	5	2	0.6	0.6	0	-0.19	-0.21	0	0	0	0	0	0
1/17/2025 19:23	65702	RVIL_T2	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
1/17/2025 19:23	64101	REFR_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
1/17/2025 19:23	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:23	52401	GRPA_T2	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
1/17/2025 19:23	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:24	54603	SUMM_T2	0	0	0	0	0	0	-0.4	-0.42	1	1	0	900	900	0
1/17/2025 19:24	54601	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:24	46203	DANV_T2	0	0	0	0	0	0	-0.41	-0.46	0	0	0	0	0	0
1/17/2025 19:24	67402	WAKE_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
1/17/2025 19:24	58401	MORO_T1	0	0	0	0	0	0	-1.03	-1.01	1	1	0	600	600	0
1/17/2025 19:24	44901	SCOT_T2	11	35	24	0.21	0.26	0.05	0.14	0.09	0	0	0	0	0	0
1/17/2025 19:24	64101	REFR_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
1/17/2025 19:24	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:24	44902	SCOT_T2	620	700	80	0.59	0.68	0.09	0	0	0	0	0	0	0	0
1/17/2025 19:24	14602	SWHI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/17/2025 19:25	63501	HEID_TBK1-2	72	80	8	0.45	0.5	0.05	-0.47	-0.52	1	1	0	900	900	0
1/17/2025 19:25	57205	ROSS_T1	0	0	0	0	0	0	-0.17	-0.14	0	0	0	0	0	0
1/17/2025 19:25	67401	WAKE_T2	0	0	0	0	0	0	-1.13	-1.15	0	0	0	0	0	0
1/17/2025 19:25	64101	REFR_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
1/17/2025 19:25	61801	EELI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/17/2025 19:25	61802	EELI_T2	0	0	0	0	0	0	-0.52	-0.4	0	0	0	0	0	0
1/17/2025 19:25	64904	MILL_T1	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
1/17/2025 19:26	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:26	64203	KINZ_T1	0	0	0	0	0	0	-0.41	-0.34	1	1	0	600	600	0
1/17/2025 19:26	64204	KINZ_T1	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
1/17/2025 19:26	64201	KINZ_T1	4	4	0	0.13	0.25	0.12	0	0	0	0	0	0	0	0
1/17/2025 19:26	65205	PRIN_T1	2	2	0	3.4	1	-2.4	0	0	0	0	0	0	0	0
1/17/2025 19:26	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:27	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:28	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 19:28	52402	GRPA_T2	0	5	5	0	0.2	0.2	-0.96	-1	0	0	0	0	0	0
1/17/2025 19:28	52403	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/17/2025 19:28	52401	GRPA_T2	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
1/17/2025 19:29	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:39	44201	POIN_T1	37	46	9	0.15	0.15	0	-1.94	-1.93	2	2	0	2100	2100	0
1/17/2025 19:41	44201	POIN_T1	37	46	9	0.15	0.15	0	-1.94	-1.93	2	2	0	2100	2100	0
1/17/2025 19:44	13702	SCHN_T1	0	0	0	0	0	0	0.77	0.76	0	0	0	0	0	0
1/17/2025 19:46	57205	ROSS_T1	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
1/17/2025 19:48	57205	ROSS_T1	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
1/17/2025 19:50	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 19:50	16101	BING_T2	1	0	-1	1.9	0	-1.9	0	0	0	0	0	0	0	0
1/17/2025 20:19	56501	ROCK_T2	2	3	1	1.05	1.15	0.1	-0.93	-0.93	0	0	0	0	0	0
1/17/2025 20:24	53901	HALI_T2	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 20:24	53903	HALI_T2	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0	0
1/17/2025 20:24	53902	HALI_T2	1	1	0	5	5.1	0.1	0	0	0	0	0	0	0	0
1/17/2025 20:28	53101	WTWN_T1	1	3	2	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
1/17/2025 20:28	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2025 20:35	60201	ATGL_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
1/17/2025 21:40	54503	ENOL_T2	0	0	0	0	0	0	-0.39	-0.38	1	1	0	600	600	0
1/17/2025 21:40	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
1/18/2025 8:26	16101	BING_T2	0	0	0	0	0	0	0.56	0.6	0	0	0	0	0	0
1/18/2025 8:34	15603	NSTR_T2	0	0	0	0	0	0	-1.08	-1.1	0	0	0	0	0	0
1/18/2025 8:34	15601	NSTR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 9:00	62106	ELAN_T1	0	0	0	0	0	0	1.01	1.05	0	0	0	0	0	0
1/18/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
1/18/2025 9:07	56501	ROCK_T2	3	4	1	1.1	2.13	1.03	-1	-1	0	0	0	0	0	0
1/18/2025 9:08	13704	SCHN_T2	1	0	-1	4.5	0	-4.5	-0.75	-0.75	0	0	0	0	0	0
1/18/2025 9:09	56501	ROCK_T2	3	4	1	1.1	2.13	1.03	-1	-1	0	0	0	0	0	0
1/18/2025 9:09	60301	TWVA_T2	0	3	3	0	0	0	-1.92	-1.88	2	2	0	1800	1800	0
1/18/2025 9:10	56501	ROCK_T2	3	4	1	1.1	2.13	1.03	-1	-1	0	0	0	0	0	0
1/18/2025 9:14	16101	BING_T2	0	0	0	0	0	0	0.63	0.56	0	0	0	0	0	0
1/18/2025 9:15	63501	HEID_TBK1-2	8	9	1	0.2	0.22	0.02	0	0	0	0	0	0	0	0
1/18/2025 9:16	26704	HEML_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
1/18/2025 9:22	15602	NSTR_T2	0	0	0	0	0	0	0.06	0	0	0	0	0	0	0
1/18/2025 9:22	15601	NSTR_T2	2	7	5	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
1/18/2025 9:24	13302	ORVI_T2	0	0	0	0	0	0	1.58	1.56	0	0	0	0	0	0
1/18/2025 9:32	40101	HUNT_T2	450	490	40	1.05	0.7	-0.35	-1.36	-1.32	0	0	0	0	0	0
1/18/2025 9:42	25801	SUTR_T2	5	4	-1	3.5	7.95	4.45	0.15	0.15	0	0	0	0	0	0
1/18/2025 9:45	52403	GRPA_T2	53	28	-25	0.58	0.9	0.32	0	0	0	0	0	0	0	0
1/18/2025 9:45	52404	GRPA_T2	2	14	12	0.7	0.7	0	0	0	0	0	0	0	0	0
1/18/2025 9:45	52402	GRPA_T2	0	7	7	0	0.35	0.35	-0.98	-0.95	0	0	0	0	0	0
1/18/2025 9:45	52401	GRPA_T2	8	10	2	0.41	0.23	-0.18	0	0	0	0	0	0	0	0
1/18/2025 9:46	52403	GRPA_T2	53	28	-25	0.58	0.9	0.32	0	0	0	0	0	0	0	0
1/18/2025 9:46	52404	GRPA_T2	2	14	12	0.7	0.7	0	0	0	0	0	0	0	0	0
1/18/2025 9:46	52402	GRPA_T2	0	7	7	0	0.35	0.35	-0.98	-0.95	0	0	0	0	0	0
1/18/2025 9:46	52401	GRPA_T2	8	10	2	0.41	0.23	-0.18	0	0	0	0	0	0	0	0
1/18/2025 9:48	52401	GRPA_T2	8	10	2	0.41	0.23	-0.18	-0.52	-0.52	0	0	0	0	0	0
1/18/2025 9:48	52402	GRPA_T2	0	7	7	0	0.35	0.35	0	0	0	0	0	0	0	0
1/18/2025 9:48	52404	GRPA_T2	2	14	12	0.7	0.7	0	0	0	0	0	0	0	0	0
1/18/2025 9:48	52403	GRPA_T2	53	28	-25	0.58	0.9	0.32	0	0	0	0	0	0	0	0
1/18/2025 9:49	17802	GILB_T1	4	1	-3	0.53	0.3	-0.23	0.25	0.21	0	0	0	0	0	0
1/18/2025 9:51	43201	MVIL_T2	1	0	-1	0.9	0	-0.9	-1.22	-1.24	0	0	0	0	0	0
1/18/2025 9:51	44902	SCOT_T2	0	1	1	0	0	0	-0.9	-0.97	0	0	0	0	0	0
1/18/2025 9:51	43202	MVIL_T2	6	3	-3	1.18	1.1	-0.08	0	0	0	0	0	0	0	0
1/18/2025 9:53	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 9:53	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 9:56	44901	SCOT_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
1/18/2025 9:56	44902	SCOT_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 9:58	61802	EELI_T2	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
1/18/2025 9:58	61801	EELI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/18/2025 9:59	46206	DANV_T2	2	4	2	0.35	0.3	-0.05	3.01	3.09	4	4	0	4200	4200	0
1/18/2025 9:59	46204	DANV_T2	83	23	-60	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
1/18/2025 9:59	46203	DANV_T2	4	7	3	0.33	0.35	0.02	0	0	0	0	0	0	0	0
1/18/2025 10:00	46203	DANV_T2	5	7	2	0.38	0.48	0.1	0	0	0	0	0	0	0	0
1/18/2025 10:00	46204	DANV_T2	22	10	-12	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
1/18/2025 10:00	46206	DANV_T2	1	5	4	0.3	0.68	0.38	1.51	1.54	2	2	0	2100	2100	0
1/18/2025 10:06	44901	SCOT_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
1/18/2025 10:06	44902	SCOT_T2	1	1	0	0	0.1	0.1	-0.97	-0.93	0	0	0	0	0	0
1/18/2025 10:07	40601	PIGR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/18/2025 10:07	40602	PIGR_T1	0	0	0	0	0	0	-1.72	-1.78	1	1	0	600	600	0
1/18/2025 10:07	40603	PIGR_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
1/18/2025 10:12	22002	BOHE_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
1/18/2025 10:13	60801	BUCK_T1	0	0	0	0	0	0	-0.85	-0.86	1	1	0	600	600	0
1/18/2025 10:18	13503	MCMI_T2	0	0	0	0	0	0	-0.61	0.36	0	0	0	0	0	0
1/18/2025 10:18	26703	HEML_T1	2	3	1	1.85	1.55	-0.3	-0.64	-0.64	1	1	0	600	600	0
1/18/2025 10:18	26701	HEML_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 10:21	13503	MCMI_T2	0	0	0	0	0	0	0.36	-0.6	0	0	0	0	0	0
1/18/2025 10:22	44703	MUNC_T2	0	1	1	0	0	0	0.68	0.72	0	0	0	0	0	0
1/18/2025 10:22	44701	MUNC_T2	10	14	4	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
1/18/2025 10:23	56501	ROCK_T2	2	2	0	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
1/18/2025 10:23	40602	PIGR_T1	0	0	0	0	0	0	-1.78	-1.72	1	1	0	600	600	0
1/18/2025 10:23	44703	MUNC_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 10:23	44701	MUNC_T2	10	14	4	0.35	0.32	-0.03	0	0	0	0	0	0	0	0
1/18/2025 10:23	40601	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 10:23	56504	ROCK_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
1/18/2025 10:31	45502	DERR_T2	2	3	1	0.4	0	-0.4	-0.56	-0.56	0	0	0	0	0	0
1/18/2025 10:31	45501	DERR_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 10:33	63501	HEID_TBK1-2	8	7	-1	0.21	0.19	-0.02	-0.28	-0.37	1	1	0	900	900	0
1/18/2025 10:37	55002	NEWP_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
1/18/2025 10:39	40601	PIGR_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
1/18/2025 10:39	40602	PIGR_T1	0	0	0	0	0	0	-1.72	-1.75	1	1	0	600	600	0
1/18/2025 11:11	22002	BOHE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/18/2025 11:11	22003	BOHE_T1	1	24	23	0.3	0.25	-0.05	0.04	0.05	0	0	0	0	0	0
1/18/2025 11:12	22002	BOHE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/18/2025 11:12	21501	CEAV_T2	0	0	0	0	0	0	-0.03	-0.14	1	1	0	1200	1200	0
1/18/2025 11:12	22003	BOHE_T1	1	24	23	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
1/18/2025 11:24	13704	SCHN_T2	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
1/18/2025 11:30	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 11:30	44502	HAMI_T2	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0	0
1/18/2025 11:32	44502	HAMI_T2	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0	0
1/18/2025 11:32	44505	HAMI_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
1/18/2025 11:33	44505	HAMI_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
1/18/2025 11:33	44502	HAMI_T2	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0	0
1/18/2025 11:36	44703	MUNC_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/18/2025 11:36	44701	MUNC_T2	23	11	-12	0.47	0.28	-0.19	0	0	0	0	0	0	0	0
1/18/2025 11:40	40201	BEGA_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/18/2025 11:43	40201	BEGA_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/18/2025 12:00	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 12:00	41802	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 12:03	41802	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 12:03	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 12:07	44902	SCOT_T2	0	1	1	0	0.1	0.1	-0.98	-0.94	0	0	0	0	0	0
1/18/2025 12:10	49803	UNIV_T1	1	1	0	6.4	6	-0.4	-0.96	-1	0	0	0	0	0	0
1/18/2025 12:12	45502	DERR_T2	1	5	4	0.4	0.13	-0.27	0	0	0	0	0	0	0	0
1/18/2025 12:12	45501	DERR_T2	2	1	-1	0.35	0	-0.35	0.14	0.17	2	2	0	1800	1800	0
1/18/2025 12:13	45501	DERR_T2	2	1	-1	0.35	0	-0.35	0.14	0.17	2	2	0	1800	1800	0
1/18/2025 12:13	45502	DERR_T2	1	5	4	0.4	0.13	-0.27	0	0	0	0	0	0	0	0
1/18/2025 12:19	40101	HUNT_T2	431	420	-11	0.98	0.8	-0.18	-1.67	-1.67	0	0	0	0	0	0
1/18/2025 12:19	58402	MORO_T1	0	0	0	0	0	0	-0.62	-0.07	3	2	-1	1950	1350	-600
1/18/2025 12:31	64203	KINZ_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
1/18/2025 12:31	64201	KINZ_T1	0	0	0	0	0	0	-0.93	-0.89	4	4	0	2100	2100	0
1/18/2025 12:31	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
1/18/2025 12:35	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 12:39	44202	POIN_T2	0	0	0	0	0	0	-0.89	-0.93	1	1	0	1200	1200	0
1/18/2025 12:40	44202	POIN_T2	0	0	0	0	0	0	-0.89	-0.93	1	1	0	1200	1200	0
1/18/2025 12:40	55101	WERT_T1	0	0	0	0	0	0	-3.32	-3.33	4	4	0	3000	3000	0
1/18/2025 12:44	42701	AUGU_T1	1	1	0	0.3	0.2	-0.1	0	0	2	2	0	1800	1800	0
1/18/2025 12:48	52402	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 12:48	52404	GRPA_T2	4	1	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/18/2025 12:48	52401	GRPA_T2	3	8	5	0.2	0.54	0.34	0	0	0	0	0	0	0	0
1/18/2025 12:48	52403	GRPA_T2	2	8	6	0.9	0.28	-0.62	-0.17	-0.18	0	0	0	0	0	0
1/18/2025 12:51	58302	NOTT_T1	0	0	0	0	0	0	-2.15	-2.14	2	2	0	2100	2100	0
1/18/2025 13:04	55002	NEWP_T1	3	4	1	0.27	0.38	0.11	-0.17	-0.18	0	0	0	0	0	0
1/18/2025 13:05	52401	GRPA_T2	7	6	-1	0.54	0.38	-0.16	0	0	0	0	0	0	0	0
1/18/2025 13:05	52402	GRPA_T2	0	6	6	0	0.5	0.5	0	0	0	0	0	0	0	0
1/18/2025 13:05	52404	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/18/2025 13:05	52403	GRPA_T2	2	8	6	0.45	0.25	-0.2	-0.18	-0.17	0	0	0	0	0	0
1/18/2025 13:10	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
1/18/2025 13:12	46204	DANV_T2	85	62	-23	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
1/18/2025 13:12	46203	DANV_T2	8	8	0	0.33	0.54	0.21	-2.68	-2.74	0	0	0	0	0	0
1/18/2025 13:12	46206	DANV_T2	12	8	-4	0.49	0.55	0.06	0	0	0	0	0	0	0	0
1/18/2025 13:14	41901	REED_T1	8	8	0	0.49	0.51	0.02	0	0	0	0	0	0	0	0
1/18/2025 13:14	61801	EELI_T2	2	2	0	0.75	0.6	-0.15	-1.02	-1	1	1	0	600	600	0
1/18/2025 13:14	41903	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 13:15	61801	EELI_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
1/18/2025 13:15	46204	DANV_T2	58	39	-19	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
1/18/2025 13:15	46203	DANV_T2	6	8	2	0.57	0.54	-0.03	-2.68	-2.74	0	0	0	0	0	0
1/18/2025 13:15	61802	EELI_T2	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/18/2025 13:15	46206	DANV_T2	2	10	8	0.55	0.42	-0.13	0	0	0	0	0	0	0	0
1/18/2025 13:18	61801	EELI_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
1/18/2025 13:19	63803	HEMP_T1	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
1/18/2025 13:19	63804	HEMP_T1	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
1/18/2025 13:25	50701	SMEC_T1	0	0	0	0	0	0	-1.99	-1.01	1	1	0	900	900	0
1/18/2025 13:26	50701	SMEC_T1	0	0	0	0	0	0	-1.99	-1.01	1	1	0	900	900	0
1/18/2025 13:29	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 13:29	60104	COCA_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
1/18/2025 13:33	52001	LING_T1	0	0	0	0	0	0	-0.92	-0.92	0	0	0	0	0	0
1/18/2025 13:42	10805	CHHI_T2	1	1	0	7.6	7.5	-0.1	-1.54	-1.05	1	1	0	600	600	0
1/18/2025 13:44	11201	ELHE_T2	0	0	0	0	0	0	-0.61	0.66	2	1	-1	2400	1200	-1200
1/18/2025 13:46	11201	ELHE_T2	0	0	0	0	0	0	-0.61	0.66	2	1	-1	2400	1200	-1200
1/18/2025 13:52	17401	FOHI_T1	0	0	0	0	0	0	-1	-0.99	0	0	0	0	0	0
1/18/2025 13:56	16102	BING_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
1/18/2025 13:56	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 13:57	60104	COCA_T2	4	4	0	0.2	0.43	0.23	-0.46	-0.44	1	1	0	600	600	0
1/18/2025 13:58	60104	COCA_T2	4	4	0	0.2	0.43	0.23	-0.46	-0.44	1	1	0	600	600	0
1/18/2025 13:59	60201	ATGL_T2	0	0	0	0	0	0	-0.2	-0.24	0	0	0	0	0	0
1/18/2025 14:02	61802	EELI_T2	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
1/18/2025 14:02	61801	EELI_T2	2	2	0	0.8	0.9	0.1	-0.99	-0.94	1	1	0	600	600	0
1/18/2025 14:07	65803	RTWN_T2	6	8	2	0.27	0.21	-0.06	0	0	0	0	0	0	0	0
1/18/2025 14:07	65802	RTWN_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
1/18/2025 14:12	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 14:12	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/18/2025 14:20	55405	SHER_T1	9	6	-3	1.33	1.78	0.45	0	0	0	0	0	0	0	0
1/18/2025 14:24	65205	PRIN_T1	2	2	0	1	1.4	0.4	0	0	0	0	0	0	0	0
1/18/2025 14:28	14204	EALL_T2	0	0	0	0	0	0	-0.75	-0.78	1	1	0	1200	1200	0
1/18/2025 14:28	62104	ELAN_T1	0	0	0	0	0	0	-0.05	-0.03	2	2	0	2400	2400	0
1/18/2025 14:33	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
1/18/2025 14:33	63801	HEMP_T1	0	0	0	0	0	0	-0.41	-0.34	0	0	0	0	0	0
1/18/2025 14:34	52004	LING_T2	2	2	0	5	5	0	0.1	0.09	0	0	0	0	0	0
1/18/2025 14:36	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 14:46	64204	KINZ_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
1/18/2025 14:46	64202	KINZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/18/2025 14:46	64203	KINZ_T1	0	0	0	0	0	0	-0.41	-0.48	1	1	0	600	600	0
1/18/2025 14:49	52004	LING_T2	2	2	0	5	4.85	-0.15	0	0	0	0	0	0	0	0
1/18/2025 14:49	52002	LING_T2	0	0	0	0	0	0	-0.07	-0.03	0	0	0	0	0	0
1/18/2025 14:50	64302	LINC_T2	0	0	0	0	0	0	0.45	0.41	0	0	0	0	0	0
1/18/2025 14:54	52002	LING_T2	0	0	0	0	0	0	-0.03	-0.07	0	0	0	0	0	0
1/18/2025 14:54	52004	LING_T2	2	2	0	5	4.85	-0.15	0	0	0	0	0	0	0	0
1/18/2025 15:02	63501	HEID_TBK1-2	0	1	1	0	0.4	0.4	-0.43	-0.4	1	1	0	900	900	0
1/18/2025 15:04	55002	NEWP_T1	3	3	0	0.57	0.63	0.06	-0.21	-0.18	0	0	0	0	0	0
1/18/2025 15:15	26703	HEML_T1	2	3	1	1.2	1.15	-0.05	-0.69	-0.68	1	1	0	600	600	0
1/18/2025 15:15	26701	HEML_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
1/18/2025 15:16	60102	COCA_T1	0	0	0	0	0	0	-1	-0.96	2	2	0	1200	1200	0
1/18/2025 15:17	60102	COCA_T1	0	0	0	0	0	0	-1	-0.96	2	2	0	1200	1200	0
1/18/2025 15:22	13303	ORVI_T1	0	0	0	0	0	0	1.7	1.76	0	0	0	0	0	0
1/18/2025 15:26	15703	TANN_T2	1	1	0	7.5	7.2	-0.3	0	0	0	0	0	0	0	0
1/18/2025 15:26	67402	WAKE_T2	0	0	0	0	0	0	-0.37	-0.4	1	1	0	600	600	0
1/18/2025 15:26	15702	TANN_T2	1	0	-1	0.3	0	-0.3	-0.21	-0.16	0	0	0	0	0	0
1/18/2025 15:27	67402	WAKE_T2	0	0	0	0	0	0	-0.37	-0.4	1	1	0	600	600	0
1/18/2025 15:31	67106	SPRI_T2	0	0	0	0	0	0	-7.77	-7.77	6	6	0	4500	4500	0
1/18/2025 15:36	64904	MILL_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
1/18/2025 15:46	63305	GREE_T1	3	3	0	0.2	0.1	-0.1	-3.3	-3.28	0	0	0	0	0	0
1/18/2025 15:46	63304	GREE_T1	0	0	0	0	0	0	-1.76	-1.78	0	0	0	0	0	0
1/18/2025 15:46	63302	GREE_T1	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
1/18/2025 15:50	64902	MILL_T2	0	0	0	0	0	0	-1.36	-1.38	1	1	0	900	900	0
1/18/2025 15:50	64903	MILL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/18/2025 15:52	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
1/18/2025 15:54	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
1/18/2025 16:09	66901	SHIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/18/2025 16:09	66903	SHIL_T2	0	0	0	0	0	0	-1.16	-1.16	0	0	0	0	0	0
1/18/2025 16:17	64401	LAND_T1	0	0	0	0	0	0	-2.32	-2.29	2	2	0	1200	1200	0
1/18/2025 16:18	52403	GRPA_T2	0	0	0	0	0	0	-0.06	-0.12	0	0	0	0	0	0
1/18/2025 16:18	52402	GRPA_T2	3	3	0	0.23	0	-0.23	0	0	0	0	0	0	0	0
1/18/2025 16:18	52401	GRPA_T2	9	10	1	0.43	0.23	-0.2	0	0	0	0	0	0	0	0
1/18/2025 18:45	13503	MCMI_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
1/18/2025 18:52	26703	HEML_T1	4	2	-2	1	1.8	0.8	-1.32	-1.34	2	2	0	1200	1200	0
1/18/2025 18:52	13503	MCMI_T2	0	0	0	0	0	0	0.33	-0.15	0	0	0	0	0	0
1/18/2025 18:53	26704	HEML_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
1/18/2025 18:56	44901	SCOT_T2	0	0	0	0	0	0	-0.46	-0.55	0	0	0	0	0	0
1/18/2025 18:56	44902	SCOT_T2	2	4	2	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
1/18/2025 18:56	10805	CHHI_T2	6	1	-5	1.62	8.5	6.88	-1.06	-1.11	1	1	0	600	600	0
1/18/2025 18:56	40201	BEGA_T2	2	3	1	0.15	0.6	0.45	0	0	0	0	0	0	0	0
1/18/2025 18:56	55002	NEWP_T1	3	4	1	0.67	0.78	0.11	-0.19	-0.21	0	0	0	0	0	0
1/18/2025 18:57	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 18:57	52004	LING_T2	2	2	0	4.2	4.3	0.1	0.09	0.09	0	0	0	0	0	0
1/18/2025 18:57	52002	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 18:57	22003	BOHE_T1	166	177	11	0.39	0.41	0.02	0	0	0	0	0	0	0	0
1/18/2025 18:57	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 18:57	44202	POIN_T2	0	0	0	0	0	0	-0.95	-0.92	1	1	0	1200	1200	0
1/18/2025 18:57	44502	HAMI_T2	1	1	0	2.3	2.2	-0.1	0	0	0	0	0	0	0	0
1/18/2025 18:57	63501	HEID_TBK1-2	19	51	32	0.16	0.39	0.23	-0.45	-0.48	1	1	0	900	900	0
1/18/2025 18:57	22002	BOHE_T1	1	2	1	0.5	0.3	-0.2	0.42	0.41	0	0	0	0	0	0
1/18/2025 18:57	44701	MUNC_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 18:57	22001	BOHE_T1	29	22	-7	0.15	0.15	0	0	0	0	0	0	0	0	0
1/18/2025 18:58	55405	SHER_T1	6	6	0	1.12	1.83	0.71	0	0	0	0	0	0	0	0
1/18/2025 18:58	25801	SUTR_T2	2	4	2	8.05	5.63	-2.42	0.15	0.13	0	0	0	0	0	0
1/18/2025 18:58	40101	HUNT_T2	533	589	56	0.86	0.98	0.12	-1.66	-1.68	0	0	0	0	0	0
1/18/2025 18:58	44502	HAMI_T2	1	1	0	2.3	2.2	-0.1	0	0	0	0	0	0	0	0
1/18/2025 18:58	44505	HAMI_T2	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0	0
1/18/2025 18:58	22001	BOHE_T1	29	22	-7	0.15	0.15	0	0	0	0	0	0	0	0	0
1/18/2025 18:58	22003	BOHE_T1	166	177	11	0.39	0.41	0.02	0.05	0.05	0	0	0	0	0	0
1/18/2025 18:58	22002	BOHE_T1	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
1/18/2025 18:59	52001	LING_T1	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
1/18/2025 18:59	15602	NSTR_T2	0	0	0	0	0	0	-0.01	0.05	0	0	0	0	0	0
1/18/2025 18:59	40201	BEGA_T2	2	3	1	0.15	0.6	0.45	0	0	0	0	0	0	0	0
1/18/2025 18:59	15601	NSTR_T2	2	15	13	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/18/2025 18:59	63501	HEID_TBK1-2	19	51	32	0.16	0.39	0.23	0	0	0	0	0	0	0	0
1/18/2025 19:00	40101	HUNT_T2	570	512	-58	0.91	1.17	0.26	-1.66	-1.68	0	0	0	0	0	0
1/18/2025 19:00	45502	DERR_T2	1	3	2	1.2	0	-1.2	-0.57	-0.59	0	0	0	0	0	0
1/18/2025 19:00	46206	DANV_T2	4	4	0	0.45	0.37	-0.08	3.07	2.96	4	4	0	4200	4200	0
1/18/2025 19:00	22002	BOHE_T1	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/18/2025 19:00	46203	DANV_T2	7	9	2	0.63	0.61	-0.02	0	0	0	0	0	0	0	0
1/18/2025 19:00	46204	DANV_T2	11	10	-1	0.47	0.1	-0.37	0	0	0	0	0	0	0	0
1/18/2025 19:00	22003	BOHE_T1	175	113	-62	0.41	0.32	-0.09	0	0	0	0	0	0	0	0
1/18/2025 19:00	22001	BOHE_T1	19	21	2	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
1/18/2025 19:01	61801	EELI_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/18/2025 19:01	52004	LING_T2	2	3	1	4.3	4.2	-0.1	0	0	0	0	0	0	0	0
1/18/2025 19:01	61802	EELI_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
1/18/2025 19:01	52002	LING_T2	0	1	1	0	0	0	-0.1	-0.08	0	0	0	0	0	0
1/18/2025 19:01	67106	SPRI_T2	0	0	0	0	0	0	-1.95	-1.93	2	2	0	1500	1500	0
1/18/2025 19:02	50701	SMEC_T1	0	0	0	0	0	0	-2.06	-2.05	1	1	0	900	900	0
1/18/2025 19:02	43202	MVIL_T2	13	13	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
1/18/2025 19:02	43201	MVIL_T2	0	1	1	0	0	0	-1.26	-1.24	0	0	0	0	0	0
1/18/2025 19:02	13303	ORVI_T1	0	0	0	0	0	0	1.13	1.05	0	0	0	0	0	0
1/18/2025 19:02	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 19:02	17802	GILB_T1	2	0	-2	0.55	0	-0.55	0.17	0.12	0	0	0	0	0	0
1/18/2025 19:02	64302	LINC_T2	0	0	0	0	0	0	0.35	0.44	0	0	0	0	0	0
1/18/2025 19:02	44502	HAMI_T2	1	2	1	2.2	2.2	0	0	0	0	0	0	0	0	0
1/18/2025 19:04	14204	EALL_T2	0	0	0	0	0	0	-0.76	-0.79	1	1	0	1200	1200	0
1/18/2025 19:05	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 19:05	44505	HAMI_T2	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0	0
1/18/2025 19:05	41802	GOCI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/18/2025 19:05	44502	HAMI_T2	1	2	1	2.2	2.2	0	0	0	0	0	0	0	0	0
1/18/2025 19:05	56501	ROCK_T2	2	2	0	0.8	0.5	-0.3	-1.06	-1.05	0	0	0	0	0	0
1/18/2025 19:06	13302	ORVI_T2	0	0	0	0	0	0	1.48	1.49	0	0	0	0	0	0
1/18/2025 19:06	55002	NEWP_T1	4	4	0	0.78	0.58	-0.2	-0.21	-0.23	0	0	0	0	0	0
1/18/2025 19:06	46206	DANV_T2	4	4	0	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
1/18/2025 19:06	60104	COCA_T2	4	3	-1	0.43	0.13	-0.3	-0.49	-0.49	1	1	0	600	600	0
1/18/2025 19:06	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 19:06	41903	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 19:06	41902	REED_T1	32	24	-8	0.39	0.59	0.2	0	0	0	0	0	0	0	0
1/18/2025 19:06	61801	EELI_T2	1	2	1	0.3	0.4	0.1	-0.98	-1	1	1	0	600	600	0
1/18/2025 19:06	67106	SPRI_T2	0	0	0	0	0	0	-1.95	-1.93	2	2	0	1500	1500	0
1/18/2025 19:06	63803	HEMP_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
1/18/2025 19:06	13704	SCHN_T2	0	0	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0
1/18/2025 19:06	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
1/18/2025 19:06	46204	DANV_T2	11	10	-1	0.47	0.1	-0.37	0	0	0	0	0	0	0	0
1/18/2025 19:06	46203	DANV_T2	7	9	2	0.63	0.61	-0.02	-2.72	-2.75	0	0	0	0	0	0
1/18/2025 19:07	44902	SCOT_T2	0	5	5	0	0.12	0.12	-2.85	-2.88	0	0	0	0	0	0
1/18/2025 19:07	45502	DERR_T2	1	3	2	1.2	0	-1.2	0	0	0	0	0	0	0	0
1/18/2025 19:07	45501	DERR_T2	0	0	0	0	0	0	-0.67	-0.66	2	2	0	1800	1800	0
1/18/2025 19:07	60102	COCA_T1	0	0	0	0	0	0	-1.01	-0.72	2	2	0	1200	1200	0
1/18/2025 19:07	56501	ROCK_T2	2	2	0	0.8	0.5	-0.3	-1.05	-1.08	0	0	0	0	0	0
1/18/2025 19:07	60301	TWVA_T2	0	0	0	0	0	0	-1.99	-1.96	2	2	0	1800	1800	0
1/18/2025 19:07	61801	EELI_T2	1	2	1	0.3	0.4	0.1	-1	-0.99	1	1	0	600	600	0
1/18/2025 19:07	44901	SCOT_T2	0	0	0	0	0	0	-0.55	-0.5	0	0	0	0	0	0
1/18/2025 19:08	44202	POIN_T2	0	0	0	0	0	0	-0.92	-0.95	1	1	0	1200	1200	0
1/18/2025 19:08	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 19:08	40603	PIGR_T1	4	0	-4	0.48	0	-0.48	0	0	0	0	0	0	0	0
1/18/2025 19:08	60102	COCA_T1	0	0	0	0	0	0	-1.01	-0.72	2	2	0	1200	1200	0
1/18/2025 19:08	16101	BING_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/18/2025 19:08	40602	PIGR_T1	0	0	0	0	0	0	-1.9	-1.87	1	1	0	600	600	0
1/18/2025 19:09	15703	TANN_T2	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
1/18/2025 19:09	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 19:09	56501	ROCK_T2	2	2	0	0.8	0.5	-0.3	-1.05	-1.08	0	0	0	0	0	0
1/18/2025 19:09	50701	SMEC_T1	0	0	0	0	0	0	-2.05	-2.09	1	1	0	900	900	0
1/18/2025 19:09	64902	MILL_T2	0	0	0	0	0	0	-1.39	-1.34	1	1	0	900	900	0
1/18/2025 19:09	58302	NOTT_T1	0	0	0	0	0	0	-1.16	-1.16	1	1	0	1200	1200	0
1/18/2025 19:09	52402	GRPA_T2	1	3	2	1.2	0	-1.2	0	0	0	0	0	0	0	0
1/18/2025 19:09	52401	GRPA_T2	1	1	0	4.1	0	-4.1	-0.58	-0.58	0	0	0	0	0	0
1/18/2025 19:09	15702	TANN_T2	6	1	-5	0.37	0	-0.37	-0.25	-0.18	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/18/2025 19:09	40603	PIGR_T1	4	0	-4	0.48	0	-0.48	0	0	0	0	0	0	0	0
1/18/2025 19:09	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 19:10	64203	KINZ_T1	6	6	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
1/18/2025 19:10	11201	ELHE_T2	0	0	0	0	0	0	0.61	0.61	1	1	0	1200	1200	0
1/18/2025 19:10	64201	KINZ_T1	0	0	0	0	0	0	-0.79	-0.86	3	3	0	1500	1500	0
1/18/2025 19:10	64204	KINZ_T1	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
1/18/2025 19:11	46203	DANV_T2	7	9	2	0.63	0.61	-0.02	0	0	0	0	0	0	0	0
1/18/2025 19:11	62104	ELAN_T1	0	0	0	0	0	0	-0.13	-0.11	1	1	0	1200	1200	0
1/18/2025 19:11	46204	DANV_T2	11	10	-1	0.47	0.1	-0.37	0	0	0	0	0	0	0	0
1/18/2025 19:11	46206	DANV_T2	4	4	0	0.45	0.37	-0.08	1.48	1.43	2	2	0	2100	2100	0
1/18/2025 19:12	52402	GRPA_T2	1	3	2	1.2	0	-1.2	0	0	0	0	0	0	0	0
1/18/2025 19:12	58402	MORO_T1	0	0	0	0	0	0	-0.56	-0.59	3	3	0	1950	1950	0
1/18/2025 19:12	52403	GRPA_T2	0	1	1	0	0	0	-0.74	-0.76	0	0	0	0	0	0
1/18/2025 19:12	13704	SCHN_T2	0	0	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0
1/18/2025 19:12	63305	GREE_T1	2	11	9	0.4	0.22	-0.18	-2.69	-2.7	1	1	0	900	900	0
1/18/2025 19:12	52401	GRPA_T2	1	1	0	4.1	0	-4.1	0	0	0	0	0	0	0	0
1/18/2025 19:12	62104	ELAN_T1	0	0	0	0	0	0	-0.13	-0.11	1	1	0	1200	1200	0
1/18/2025 19:12	65202	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 19:12	65205	PRIN_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
1/18/2025 19:12	63302	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/18/2025 19:12	13303	ORVI_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
1/18/2025 19:13	55101	WERT_T1	0	0	0	0	0	0	-1.35	-1.27	2	2	0	1500	1500	0
1/18/2025 19:14	60201	ATGL_T2	0	0	0	0	0	0	-0.39	-0.44	0	0	0	0	0	0
1/18/2025 19:14	66505	SMAN_T2	3	3	0	0.57	0.47	-0.1	0	0	0	0	0	0	0	0
1/18/2025 19:14	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 19:14	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 19:15	61801	EELI_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
1/18/2025 19:15	61802	EELI_T2	0	0	0	0	0	0	-0.27	-0.26	0	0	0	0	0	0
1/18/2025 19:16	63302	GREE_T1	1	1	0	0.2	1.2	1	0	0	0	0	0	0	0	0
1/18/2025 19:16	63305	GREE_T1	10	4	-6	0.23	0.23	0	-2.69	-2.7	1	1	0	900	900	0
1/18/2025 19:17	21501	CEAV_T2	0	0	0	0	0	0	-0.25	-0.22	1	1	0	1200	1200	0
1/18/2025 19:17	67106	SPRI_T2	0	0	0	0	0	0	-1.93	-1.95	2	2	0	1500	1500	0
1/18/2025 19:17	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 19:17	52401	GRPA_T2	1	0	-1	2.4	0	-2.4	0	0	0	0	0	0	0	0
1/18/2025 19:17	52402	GRPA_T2	0	3	3	0	0	0	-0.84	-0.85	0	0	0	0	0	0
1/18/2025 19:17	65802	RTWN_T2	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
1/18/2025 19:18	66903	SHIL_T2	0	0	0	0	0	0	-1.23	-1.24	0	0	0	0	0	0
1/18/2025 19:18	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 19:18	52401	GRPA_T2	1	0	-1	2.4	0	-2.4	0	0	0	0	0	0	0	0
1/18/2025 19:18	52402	GRPA_T2	0	3	3	0	0	0	-0.84	-0.85	0	0	0	0	0	0
1/18/2025 19:19	60801	BUCK_T1	0	0	0	0	0	0	-0.86	-0.87	1	1	0	600	600	0
1/18/2025 19:19	63801	HEMP_T1	0	0	0	0	0	0	-0.36	-0.42	0	0	0	0	0	0
1/18/2025 19:19	60803	BUCK_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
1/18/2025 19:19	63804	HEMP_T1	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
1/18/2025 19:20	65502	MOXO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 19:21	60104	COCA_T2	3	4	1	0.13	0.23	0.1	0	0	0	0	0	0	0	0
1/18/2025 19:21	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 19:21	63304	GREE_T1	0	0	0	0	0	0	-1.81	-1.86	0	0	0	0	0	0
1/18/2025 19:21	63302	GREE_T1	1	1	0	0.2	1.2	1	0	0	0	0	0	0	0	0
1/18/2025 19:21	63305	GREE_T1	10	4	-6	0.23	0.23	0	0	0	0	0	0	0	0	0
1/18/2025 19:22	67402	WAKE_T2	0	0	0	0	0	0	-0.4	-0.37	1	1	0	600	600	0
1/18/2025 19:22	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
1/18/2025 19:23	67402	WAKE_T2	0	0	0	0	0	0	-0.4	-0.37	1	1	0	600	600	0
1/18/2025 19:23	64904	MILL_T1	0	0	0	0	0	0	-0.33	-0.38	0	0	0	0	0	0
1/18/2025 19:24	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/18/2025 19:24	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
1/18/2025 19:24	64203	KINZ_T1	6	2	-4	1.33	0	-1.33	-0.39	-0.49	1	1	0	600	600	0
1/18/2025 19:24	64204	KINZ_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
1/18/2025 19:56	16101	BING_T2	0	0	0	0	0	0	0.57	0.53	0	0	0	0	0	0
1/18/2025 20:21	49803	UNIV_T1	2	3	1	2.55	1.8	-0.75	-1.06	-1.05	0	0	0	0	0	0
1/18/2025 21:08	55101	WERT_T1	0	0	0	0	0	0	-1.45	-1.47	2	2	0	1500	1500	0
1/19/2025 8:41	21501	CEAV_T2	0	0	0	0	0	0	-0.32	-0.27	1	1	0	1200	1200	0
1/19/2025 9:00	13704	SCHN_T2	0	0	0	0	0	0	-0.81	-0.84	0	0	0	0	0	0
1/19/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
1/19/2025 9:06	67503	WEWI_T2	0	0	0	0	0	0	-0.63	-0.6	0	0	0	0	0	0
1/19/2025 9:12	21501	CEAV_T2	0	0	0	0	0	0	-0.05	-0.15	1	1	0	1200	1200	0
1/19/2025 9:14	51802	EBEN_T2	0	0	0	0	0	0	-0.45	-0.53	1	1	0	900	900	0
1/19/2025 9:14	51804	EBEN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 9:22	13302	ORVI_T2	0	0	0	0	0	0	1.54	1.46	0	0	0	0	0	0
1/19/2025 9:23	40602	PIGR_T1	0	0	0	0	0	0	-1.8	-1.86	1	1	0	600	600	0
1/19/2025 9:23	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 9:24	25801	SUTR_T2	5	4	-1	3.52	8.45	4.93	-0.46	-0.46	0	0	0	0	0	0
1/19/2025 9:26	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 9:30	26704	HEMI_T2	0	0	0	0	0	0	-0.32	-0.36	0	0	0	0	0	0
1/19/2025 9:36	14603	SWHI_T1	0	0	0	0	0	0	-1.59	-1.57	2	2	0	1200	1200	0
1/19/2025 9:38	44901	SCOT_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
1/19/2025 9:38	44902	SCOT_T2	0	0	0	0	0	0	-0.96	-0.91	0	0	0	0	0	0
1/19/2025 9:38	48301	ORWI_T1	2	2	0	4.4	4.5	0.1	-0.92	-0.97	1	1	0	900	900	0
1/19/2025 9:40	14603	SWHI_T1	0	0	0	0	0	0	-3.18	-3.14	4	4	0	2400	2400	0
1/19/2025 9:46	44502	HAMI_T2	1	1	0	1.9	2.2	0.3	0	0	0	0	0	0	0	0
1/19/2025 9:46	44505	HAMI_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
1/19/2025 9:53	49803	UNIV_T1	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
1/19/2025 9:53	49804	UNIV_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
1/19/2025 9:56	46204	DANV_T2	9	47	38	0.27	0.21	-0.06	0	0	0	0	0	0	0	0
1/19/2025 9:56	46203	DANV_T2	4	0	-4	0.13	0	-0.13	-2.67	-2.64	0	0	0	0	0	0
1/19/2025 9:56	46206	DANV_T2	10	8	-2	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
1/19/2025 9:56	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 9:57	40201	BEGA_T2	1	4	3	0.3	0.68	0.38	0	0	0	0	0	0	0	0
1/19/2025 10:00	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 10:00	46203	DANV_T2	0	0	0	0	0	0	-2.67	-2.64	0	0	0	0	0	0
1/19/2025 10:00	11102	EGYP_T1	1	9	8	0.3	0.39	0.09	0	0	0	0	0	0	0	0
1/19/2025 10:00	11101	EGYP_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
1/19/2025 10:00	11104	EGYP_T1	7	6	-1	0.26	0	-0.26	0	0	0	0	0	0	0	0
1/19/2025 10:00	46206	DANV_T2	3	6	3	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
1/19/2025 10:00	46204	DANV_T2	21	72	51	0.34	0.27	-0.07	0	0	0	0	0	0	0	0
1/19/2025 10:04	28403	HART_T2	1	4	3	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
1/19/2025 10:06	40602	PIGR_T1	0	1	1	0	0	0	-1.79	-1.77	1	1	0	600	600	0
1/19/2025 10:10	60301	TWVA_T2	0	0	0	0	0	0	-1.95	-1.87	2	2	0	1800	1800	0
1/19/2025 10:11	41602	CLEV_T1	6	17	11	0.42	0.37	-0.05	0	0	1	1	0	600	600	0
1/19/2025 10:17	64203	KINZ_T1	3	1	-2	0.17	0	-0.17	-0.43	-0.44	1	1	0	600	600	0
1/19/2025 10:17	64202	KINZ_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
1/19/2025 10:17	64204	KINZ_T1	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
1/19/2025 10:22	40603	PIGR_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 10:22	40602	PIGR_T1	0	0	0	0	0	0	-1.82	-1.73	1	1	0	600	600	0
1/19/2025 10:23	41901	REED_T1	4	8	4	0.23	0.27	0.04	0	0	0	0	0	0	0	0
1/19/2025 10:23	41902	REED_T1	1	5	4	1.1	0	-1.1	0.24	0.23	0	0	0	0	0	0
1/19/2025 10:25	65802	RTWN_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
1/19/2025 10:25	65803	RTWN_T2	0	14	14	0	0.22	0.22	0	0	0	0	0	0	0	0
1/19/2025 10:26	41902	REED_T1	1	5	4	1.1	0	-1.1	0.24	0.23	0	0	0	0	0	0
1/19/2025 10:26	41901	REED_T1	4	8	4	0.23	0.27	0.04	0	0	0	0	0	0	0	0
1/19/2025 10:27	60801	BUCK_T1	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
1/19/2025 10:35	52004	LING_T2	3	2	-1	2.8	4.15	1.35	0	0	0	0	0	0	0	0
1/19/2025 10:35	52002	LING_T2	1	1	0	0.7	0	-0.7	-0.09	-0.1	0	0	0	0	0	0
1/19/2025 10:36	52004	LING_T2	3	2	-1	2.8	4.15	1.35	0	0	0	0	0	0	0	0
1/19/2025 10:36	52002	LING_T2	1	1	0	0.7	0	-0.7	-0.1	-0.04	0	0	0	0	0	0
1/19/2025 10:37	56501	ROCK_T2	2	3	1	1.55	1.5	-0.05	-0.98	-0.99	0	0	0	0	0	0
1/19/2025 10:38	56501	ROCK_T2	2	3	1	1.55	1.5	-0.05	-0.98	-0.99	0	0	0	0	0	0
1/19/2025 10:39	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 10:40	56501	ROCK_T2	2	3	1	1.55	1.5	-0.05	-0.98	-0.99	0	0	0	0	0	0
1/19/2025 10:42	49803	UNIV_T1	1	1	0	6.7	6.1	-0.6	-0.92	-0.87	0	0	0	0	0	0
1/19/2025 10:45	63305	GREE_T1	8	11	3	0.35	0.38	0.03	-2.59	-2.59	1	1	0	900	900	0
1/19/2025 10:47	65205	PRIN_T1	1	41	40	1.6	1.6	0	0	0	0	0	0	0	0	0
1/19/2025 10:47	63305	GREE_T1	8	11	3	0.35	0.38	0.03	-2.59	-2.59	1	1	0	900	900	0
1/19/2025 10:47	65202	PRIN_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
1/19/2025 10:52	13103	NHAM_T2	3	3	0	4.03	2.9	-1.13	-1.56	-1.58	1	1	0	600	600	0
1/19/2025 10:52	13105	NHAM_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 10:52	44902	SCOT_T2	1	58	57	0.1	0.11	0.01	0	0	0	0	0	0	0	0
1/19/2025 10:52	44901	SCOT_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
1/19/2025 10:52	13102	NHAM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 10:53	43202	MVIL_T2	2	2	0	1.1	0.4	-0.7	0	0	0	0	0	0	0	0
1/19/2025 10:53	43201	MVIL_T2	1	0	-1	0.2	0	-0.2	-1.26	-1.24	0	0	0	0	0	0
1/19/2025 10:54	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 10:55	42601	TUSC_T1	42	69	27	1.23	1.16	-0.07	-0.5	-0.43	2	2	0	1800	1800	0
1/19/2025 10:56	42601	TUSC_T1	42	69	27	1.23	1.16	-0.07	-0.5	-0.43	2	2	0	1800	1800	0
1/19/2025 11:00	16101	BING_T2	0	1	1	0	0	0	0.59	0.57	0	0	0	0	0	0
1/19/2025 11:01	63501	HEID_TBK1-2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
1/19/2025 11:02	63801	HEMP_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
1/19/2025 11:02	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0.85	0.84	0	0	0	0	0	0
1/19/2025 11:03	65001	NEFF_T2	44	89	45	0.14	0.14	0	-1.32	-1.24	1	1	0	1200	1200	0
1/19/2025 11:05	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 11:05	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 11:08	44902	SCOT_T2	58	11	-47	0.11	0.12	0.01	-0.92	-0.91	0	0	0	0	0	0
1/19/2025 11:10	44901	SCOT_T2	0	0	0	0	0	0	-0.45	-0.36	0	0	0	0	0	0
1/19/2025 11:10	44902	SCOT_T2	58	11	-47	0.11	0.12	0.01	0	0	0	0	0	0	0	0
1/19/2025 11:12	46206	DANV_T2	0	1	1	0	0	0	2.02	1.2	2	2	0	2400	2400	0
1/19/2025 11:12	46203	DANV_T2	7	7	0	0.41	0.44	0.03	0	0	0	0	0	0	0	0
1/19/2025 11:12	46204	DANV_T2	3	3	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/19/2025 11:17	44502	HAMI_T2	2	1	-1	1.05	1.9	0.85	0	0	0	0	0	0	0	0
1/19/2025 11:17	44505	HAMI_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
1/19/2025 11:17	44503	HAMI_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 11:21	56501	ROCK_T2	1	1	0	1.5	0.8	-0.7	0	0	0	0	0	0	0	0
1/19/2025 11:21	56503	ROCK_T2	0	0	0	0	0	0	-2.61	-2.59	1	1	0	1200	1200	0
1/19/2025 11:23	44902	SCOT_T2	11	29	18	0.12	0.12	0	-0.91	-0.9	0	0	0	0	0	0
1/19/2025 11:25	56501	ROCK_T2	1	1	0	1.5	0.8	-0.7	0	0	0	0	0	0	0	0
1/19/2025 11:25	56503	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 11:32	64401	LAND_T1	0	0	0	0	0	0	-1.09	-1.08	1	1	0	600	600	0
1/19/2025 11:34	64302	LINC_T2	0	0	0	0	0	0	0.28	0.41	0	0	0	0	0	0
1/19/2025 11:36	44203	POIN_T2	3	2	-1	1.87	0.8	-1.07	0	0	0	0	0	0	0	0
1/19/2025 11:36	44201	POIN_T1	3	2	-1	0.1	0.1	0	-5.91	-5.89	3	3	0	3600	3600	0
1/19/2025 11:38	13702	SCHN_T1	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
1/19/2025 11:38	13704	SCHN_T2	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
1/19/2025 11:38	44201	POIN_T1	3	2	-1	0.1	0.1	0	-1.96	-1.94	1	1	0	1200	1200	0
1/19/2025 11:39	44201	POIN_T1	3	2	-1	0.1	0.1	0	-3.93	-3.87	2	2	0	2400	2400	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/19/2025 11:40	44201	POIN_T1	3	2	-1	0.1	0	0	-1.96	-1.94	1	1	0	1200	1200	0
1/19/2025 11:42	60803	BUCK_T1	0	0	0	0	0	0	-1.16	-1.13	1	1	0	600	600	0
1/19/2025 11:44	10801	CHHI_T1	0	0	0	0	0	0	-2.03	-2.03	3	3	0	2100	2100	0
1/19/2025 11:46	10801	CHHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 11:49	65502	MOJO_T2	0	0	0	0	0	0	-1.65	-1.39	0	0	0	0	0	0
1/19/2025 11:51	56501	ROCK_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
1/19/2025 11:51	56503	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 11:52	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/19/2025 11:52	41902	REED_T1	8	29	21	0.35	0.44	0.09	0.21	0.19	0	0	0	0	0	0
1/19/2025 11:52	56503	ROCK_T2	0	0	0	0	0	0	-2.57	-2.62	1	1	0	1200	1200	0
1/19/2025 11:52	56501	ROCK_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
1/19/2025 11:55	41902	REED_T1	8	29	21	0.35	0.44	0.09	0.21	0.19	0	0	0	0	0	0
1/19/2025 11:55	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/19/2025 11:56	44905	SCOT_T1	2	1	-1	1.35	0	-1.35	0	0	0	0	0	0	0	0
1/19/2025 12:01	23402	HONE_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 12:01	64403	LAND_T1	0	0	0	0	0	0	-3.99	-3.94	2	2	0	1800	1800	0
1/19/2025 12:01	23401	HONE_T2	2	7	5	0.15	0	-0.15	-0.04	-0.02	0	0	0	0	0	0
1/19/2025 12:01	40101	HUNT_T2	552	649	97	2.34	2.37	0.03	-1.7	-1.69	0	0	0	0	0	0
1/19/2025 12:02	23401	HONE_T2	2	7	5	0.15	0	-0.15	-0.04	-0.02	0	0	0	0	0	0
1/19/2025 12:02	23402	HONE_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 12:06	13701	SCHN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 12:08	13701	SCHN_T2	0	0	0	0	0	0	0.07	0.03	1	1	0	600	600	0
1/19/2025 12:14	45502	DERR_T2	6	19	13	0.78	0.77	-0.01	-0.54	-0.54	0	0	0	0	0	0
1/19/2025 12:14	45501	DERR_T2	1	10	9	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
1/19/2025 12:15	44502	HAMI_T2	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
1/19/2025 12:15	44503	HAMI_T2	0	0	0	0	0	0	-0.55	-0.67	0	0	0	0	0	0
1/19/2025 12:25	43304	WATS_T2	7	23	16	0.23	0.31	0.08	-0.09	-0.09	1	1	0	600	600	0
1/19/2025 12:25	43301	WATS_T2	2	6	4	0.3	0.37	0.07	0	0	0	0	0	0	0	0
1/19/2025 12:28	43301	WATS_T2	2	6	4	0.3	0.37	0.07	0	0	0	0	0	0	0	0
1/19/2025 12:28	43304	WATS_T2	7	23	16	0.23	0.31	0.08	-0.09	-0.09	1	1	0	600	600	0
1/19/2025 12:30	40101	HUNT_T2	646	606	-40	2.7	2.56	-0.14	-1.61	-1.63	0	0	0	0	0	0
1/19/2025 12:39	49803	UNIV_T1	4	4	0	1.75	5.9	4.15	-0.87	-0.85	0	0	0	0	0	0
1/19/2025 12:41	60801	BUCK_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
1/19/2025 12:42	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 12:42	67402	WAKE_T2	0	0	0	0	0	0	-0.67	-0.67	2	2	0	1200	1200	0
1/19/2025 12:42	49803	UNIV_T1	4	4	0	1.75	5.9	4.15	-0.87	-0.85	0	0	0	0	0	0
1/19/2025 12:49	55002	NEWP_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/19/2025 12:49	55001	NEWP_T1	0	0	0	0	0	0	-0.78	-0.77	1	1	0	600	600	0
1/19/2025 12:51	59402	RFLD_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
1/19/2025 12:51	22701	MINO_T1	0	0	0	0	0	0	-1.09	-1.08	1	1	0	600	600	0
1/19/2025 12:53	44203	POIN_T2	0	0	0	0	0	0	-0.22	-0.11	1	1	0	1200	1200	0
1/19/2025 12:59	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 12:59	44802	EDAN_T2	0	0	0	0	0	0	-2.1	-2.13	0	0	0	0	0	0
1/19/2025 13:00	44801	EDAN_T2	0	1	1	0	0	0	-0.4	-0.37	0	0	0	0	0	0
1/19/2025 13:16	60201	ATGL_T2	0	0	0	0	0	0	-0.41	-0.32	0	0	0	0	0	0
1/19/2025 13:31	23401	HONE_T2	9	12	3	0.5	0.43	-0.07	0	0.01	0	0	0	0	0	0
1/19/2025 15:00	51804	EBEN_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/19/2025 15:00	51802	EBEN_T2	1	0	-1	0.1	0	-0.1	-0.38	-0.35	1	1	0	900	900	0
1/19/2025 15:25	63804	HEMP_T1	1	1	0	6.5	6.4	-0.1	0.91	0.93	0	0	0	0	0	0
1/19/2025 16:03	40101	HUNT_T2	503	540	37	1.87	1.76	-0.11	-1.64	-1.65	0	0	0	0	0	0
1/19/2025 16:06	44503	HAMI_T2	0	0	0	0	0	0	-0.75	-0.73	0	0	0	0	0	0
1/19/2025 16:06	44502	HAMI_T2	1	1	0	2.8	2.7	-0.1	0	0	0	0	0	0	0	0
1/19/2025 16:11	42601	TUSC_T1	89	116	27	1.12	0.94	-0.18	-0.4	-0.44	2	2	0	1800	1800	0
1/19/2025 16:11	48301	ORWI_T1	2	2	0	5.1	5.1	0	-0.98	-0.97	1	1	0	900	900	0
1/19/2025 16:12	52002	LING_T2	4	4	0	0.45	0.4	-0.05	0.01	0.02	0	0	0	0	0	0
1/19/2025 16:12	42601	TUSC_T1	89	116	27	1.12	0.94	-0.18	-0.4	-0.44	2	2	0	1800	1800	0
1/19/2025 16:12	52004	LING_T2	3	3	0	3.03	2.8	-0.23	0	0	0	0	0	0	0	0
1/19/2025 16:14	40603	PIGR_T1	3	16	13	0.53	0.36	-0.17	0	0	0	0	0	0	0	0
1/19/2025 16:14	40601	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 16:14	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 16:16	56501	ROCK_T2	1	4	3	0.4	0.1	-0.3	-1.41	-1.37	0	0	0	0	0	0
1/19/2025 16:16	56504	ROCK_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/19/2025 16:24	40601	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 16:24	40603	PIGR_T1	15	11	-4	0.39	0.8	0.41	0	0	0	0	0	0	0	0
1/19/2025 16:24	40602	PIGR_T1	0	3	3	0	0.1	0.1	-1.69	-1.63	1	1	0	600	600	0
1/19/2025 16:31	64401	LAND_T1	0	0	0	0	0	0	-1.07	-1.04	1	1	0	600	600	0
1/19/2025 16:34	65001	NEFF_T2	192	98	-94	0.27	0.18	-0.09	-1.31	-1.29	1	1	0	1200	1200	0
1/19/2025 16:38	64302	LINC_T2	0	0	0	0	0	0	0.41	0.45	0	0	0	0	0	0
1/19/2025 16:39	40601	PIGR_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/19/2025 16:39	40602	PIGR_T1	1	4	3	0.1	0.55	0.45	-1.63	-1.58	1	1	0	600	600	0
1/19/2025 16:39	65205	PRIN_T1	1	2	1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
1/19/2025 16:39	40603	PIGR_T1	8	37	29	0.33	0.5	0.17	0	0	0	0	0	0	0	0
1/19/2025 16:42	40101	HUNT_T2	539	656	117	1.78	1.89	0.11	-1.56	-1.59	0	0	0	0	0	0
1/19/2025 16:44	65502	MOJO_T2	0	0	0	0	0	0	-1.03	-0.96	0	0	0	0	0	0
1/19/2025 16:44	13702	SCHN_T1	0	0	0	0	0	0	0.79	0.81	0	0	0	0	0	0
1/19/2025 16:45	41602	CLEV_T1	28	98	70	0.73	0.47	-0.26	0	0	1	1	0	600	600	0
1/19/2025 16:48	46204	DANV_T2	101	109	8	0.62	0.44	-0.18	0	0	0	0	0	0	0	0
1/19/2025 16:48	46206	DANV_T2	5	10	5	0.58	0.36	-0.22	1.12	1.18	2	2	0	2100	2100	0
1/19/2025 16:48	46203	DANV_T2	0	6	6	0	0.14	0.14	0	0	0	0	0	0	0	0
1/19/2025 16:48	13302	ORVI_T2	0	0	0	0	0	0	1.6	1.64	0	0	0	0	0	0
1/19/2025 16:51	44901	SCOT_T2	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
1/19/2025 16:56	14603	SWHI_T1	0	0	0	0	0	0	-1.48	-1.48	2	2	0	1200	1200	0
1/19/2025 17:00	44201	POIN_T1	0	12	12	0	0.14	0.14	-1.84	-1.84	1	1	0	1200	1200	0
1/19/2025 17:02	44801	EDAN_T2	4	2	-2	0.9	0.6	-0.3	-0.36	-0.36	0	0	0	0	0	0
1/19/2025 17:02	16101	BING_T2	0	0	0	0	0	0	0.66	0.69	0	0	0	0	0	0
1/19/2025 17:05	63305	GREE_T1	2	2	0	0.1	0.1	0	-2.6	-2.58	1	1	0	900	900	0
1/19/2025 17:12	26704	HEML_T2	1	2	1	0.4	0.7	0.3	-0.31	-0.34	0	0	0	0	0	0
1/19/2025 17:14	44201	POIN_T1	0	12	12	0	0.14	0.14	-1.84	-1.8	1	1	0	1200	1200	0
1/19/2025 17:15	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 17:16	13103	NHAM_T2	0	3	3	0	1.3	1.3	-1.47	-1.44	1	1	0	600	600	0
1/19/2025 17:16	13102	NHAM_T2	1	0	-1	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
1/19/2025 17:16	13105	NHAM_T2	2	19	17	0.5	0.86	0.36	0	0	0	0	0	0	0	0
1/19/2025 17:18	14603	SWHI_T1	0	0	0	0	0	0	-1.48	-1.46	2	2	0	1200	1200	0
1/19/2025 17:20	41901	REED_T1	8	6	-2	0.43	0.58	0.15	0	0	0	0	0	0	0	0
1/19/2025 17:20	41902	REED_T1	8	24	16	0.66	0.55	-0.11	0.19	0.27	0	0	0	0	0	0
1/19/2025 17:20	44901	SCOT_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
1/19/2025 17:20	44902	SCOT_T2	0	41	41	0	0.13	0.13	0	0	0	0	0	0	0	0
1/19/2025 17:20	44203	POIN_T2	0	0	0	0	0	0	-0.21	-0.2	1	1	0	1200	1200	0
1/19/2025 17:21	64403	LAND_T1	0	0	0	0	0	0	-1.96	-1.95	1	1	0	900	900	0
1/19/2025 17:22	14603	SWHI_T1	0	0	0	0	0	0	-1.46	-1.46	2	2	0	1200	1200	0
1/19/2025 17:32	11104	EGYP_T1	11	18	7	0.39	0.74	0.35	0	0	0	0	0	0	0	0
1/19/2025 17:32	44801	EDAN_T2	2	1	-1	1.65	0	-1.65	0	0	0	0	0	0	0	0
1/19/2025 17:32	11101	EGYP_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/19/2025 17:32	11103	EGYP_T1	13	9	-4	2.05	3.06	1.01	0	0	0	0	0	0	0	0
1/19/2025 17:32	44802	EDAN_T2	0	0	0	0	0	0	-2.08	-2.04	0	0	0	0	0	0
1/19/2025 17:36	44902	SCOT_T2	1	41	40	0.1	0.13	0.03	-0.89	-0.88	0	0	0	0	0	0
1/19/2025 17:37	25801	SUTR_T2	11	9	-2	2.51	2.35	-0.16	-0.33	-0.32	0	0	0	0	0	0
1/19/2025 17:41	49803	UNIV_T1	2	37	35	3.45	6.6	3.15	-0.8	-0.86	0	0	0	0	0	0
1/19/2025 17:41	44902	SCOT_T2	1	41	40	0.1	0.13	0.03	-0.88	-0.87	0	0	0	0	0	0
1/19/2025 17:42	60301	TWVA_T2	4	3	-1	0.4	0.15	-0.25	-1.86	-1.85	2	2	0	1800	1800	0
1/19/2025 17:43	46203	DANV_T2	6	6	0	0.18	0.2	0.02	-1.39	-2.43	0	0	0	0	0	0
1/19/2025 17:43	46204	DANV_T2	38	66	28	0.38	0.42	0.04	0	0	0	0	0	0	0	0
1/19/2025 17:47	43202	MVIL_T2	5	16	11	1.14	0.87	-0.27	0	0	0	0	0	0	0	0
1/19/2025 17:47	43201	MVIL_T2	5	24	19	0.48	0.5	0.02	-0.95	-0.28	0	0	0	0	0	0
1/19/2025 17:47	44901	SCOT_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
1/19/2025 17:47	44902	SCOT_T2	41	3	-38	0.13	0.13	0	-0.88	-0.87	0	0	0	0	0	0
1/19/2025 17:58	23401	HONE_T2	6	19	13	0.9	0.64	-0.26	0.02	0	0	0	0	0	0	0
1/19/2025 17:58	49803	UNIV_T1	37	4	-33	0.56	6.1	5.54	-0.86	-0.83	0	0	0	0	0	0
1/19/2025 17:59	64204	KINZ_T1	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
1/19/2025 17:59	64203	KINZ_T1	8	8	0	1.21	0.6	-0.61	-0.99	-1	2	2	0	900	900	0
1/19/2025 17:59	64202	KINZ_T1	1	2	1	1	0	-1	0	0	0	0	0	0	0	0
1/19/2025 17:59	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 18:01	63305	GREE_T1	1	2	1	0	0.1	0.1	-2.61	-2.62	1	1	0	900	900	0
1/19/2025 18:10	41901	REED_T1	7	7	0	0.47	0.32	-0.15	0	0	0	0	0	0	0	0
1/19/2025 18:10	41902	REED_T1	29	35	6	0.59	0.58	-0.01	0.17	0.22	0	0	0	0	0	0
1/19/2025 18:11	44201	POIN_T1	6	0	-6	0.1	0	-0.1	-1.75	-1.81	1	1	0	1200	1200	0
1/19/2025 18:12	13701	SCHN_T2	0	0	0	0	0	0	0.07	0.07	1	1	0	600	600	0
1/19/2025 18:15	49803	UNIV_T1	4	10	6	1.6	2.27	0.67	-0.83	-0.87	0	0	0	0	0	0
1/19/2025 18:15	60801	BUCK_T1	0	0	0	0	0	0	-0.81	-0.84	1	1	0	600	600	0
1/19/2025 18:24	44201	POIN_T1	0	0	0	0	0	0	-1.81	-1.8	1	1	0	1200	1200	0
1/19/2025 18:25	56503	ROCK_T2	0	0	0	0	0	0	-1.23	-1.26	1	1	0	1200	1200	0
1/19/2025 18:25	56501	ROCK_T2	7	2	-5	0.56	0.1	-0.46	0	0	0	0	0	0	0	0
1/19/2025 18:25	23401	HONE_T2	12	23	11	0.61	0.61	0	0.05	0.04	0	0	0	0	0	0
1/19/2025 18:25	44201	POIN_T1	0	0	0	0	0	0	-1.81	-1.8	1	1	0	1200	1200	0
1/19/2025 18:26	44201	POIN_T1	0	0	0	0	0	0	-1.81	-1.8	1	1	0	1200	1200	0
1/19/2025 18:27	49804	UNIV_T1	0	0	0	0	0	0	0.64	0.58	0	0	0	0	0	0
1/19/2025 18:27	49803	UNIV_T1	4	10	6	1.6	2.27	0.67	0	0	0	0	0	0	0	0
1/19/2025 18:29	46203	DANV_T2	8	7	-1	0.31	0.57	0.26	-2.45	-2.39	0	0	0	0	0	0
1/19/2025 18:29	46204	DANV_T2	3	16	13	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
1/19/2025 18:29	44201	POIN_T1	0	0	0	0	0	0	-1.81	-1.8	1	1	0	1200	1200	0
1/19/2025 18:30	63801	HEMP_T1	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
1/19/2025 18:30	63804	HEMP_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
1/19/2025 18:31	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 18:31	43304	WATS_T2	13	24	11	0.37	0.41	0.04	-0.63	-0.63	0	0	0	0	0	0
1/19/2025 18:31	43301	WATS_T2	24	61	37	0.5	0.68	0.18	0	0	0	0	0	0	0	0
1/19/2025 18:31	66505	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
1/19/2025 18:31	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 18:32	45502	DERR_T2	5	6	1	0.48	0.58	0.1	-0.54	-0.54	0	0	0	0	0	0
1/19/2025 18:32	45501	DERR_T2	3	3	0	0.53	0	-0.53	0	0	0	0	0	0	0	0
1/19/2025 18:32	16103	BING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/19/2025 18:33	46203	DANV_T2	7	10	3	0.57	0.58	0.01	0	0	0	0	0	0	0	0
1/19/2025 18:33	46206	DANV_T2	0	0	0	0	0	0	-0.23	-0.2	2	2	0	2100	2100	0
1/19/2025 18:33	46204	DANV_T2	7	15	8	0.39	0.71	0.32	0	0	0	0	0	0	0	0
1/19/2025 18:34	65803	RTWN_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
1/19/2025 18:34	65802	RTWN_T2	0	0	0	0	0	0	-0.06	-0.1	0	0	0	0	0	0
1/19/2025 18:36	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 18:37	21501	CEAV_T2	0	0	0	0	0	0	-0.28	-0.28	1	1	0	1200	1200	0
1/19/2025 18:38	43304	WATS_T2	13	24	11	0.37	0.41	0.04	-0.63	-0.66	0	0	0	0	0	0
1/19/2025 18:38	59402	RFLD_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
1/19/2025 18:38	43301	WATS_T2	24	61	37	0.5	0.68	0.18	0	0	0	0	0	0	0	0
1/19/2025 18:38	13704	SCHN_T2	0	2	2	0	0	0	-0.68	-0.68	0	0	0	0	0	0
1/19/2025 18:39	56501	ROCK_T2	2	2	0	0.2	0.5	0.3	-1.35	-1.41	0	0	0	0	0	0
1/19/2025 18:41	40201	BEGA_T2	2	33	31	0.8	0.47	-0.33	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/19/2025 18:42	44905	SCOT_T1	37	47	10	0.62	0.84	0.22	0	0	0	0	0	0	0	0
1/19/2025 18:42	56501	ROCK_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
1/19/2025 18:42	56503	ROCK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 18:44	67402	WAKE_T2	1	2	1	0.8	0	-0.8	-0.24	-0.25	1	1	0	600	600	0
1/19/2025 18:46	56501	ROCK_T2	2	21	19	0.3	0.16	-0.14	-1.35	-1.41	0	0	0	0	0	0
1/19/2025 18:47	60803	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 18:47	67402	WAKE_T2	2	0	-2	0.3	0	-0.3	-0.24	-0.25	1	1	0	600	600	0
1/19/2025 18:49	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 18:54	63501	HEID_TBK1-2	7	15	8	0.2	0.32	0.12	0	0	0	0	0	0	0	0
1/19/2025 19:00	13704	SOHN_T2	1	3	2	0.2	0.25	0.05	-0.68	-0.71	0	0	0	0	0	0
1/19/2025 19:10	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/19/2025 20:07	22701	MINO_T1	0	0	0	0	0	0	-1.13	-1.13	1	1	0	600	600	0
1/20/2025 8:26	40201	BEGA_T2	8	32	24	0.84	0.57	-0.27	0	0	0	0	0	0	0	0
1/20/2025 9:00	40503	CRES_T1	3	2	-1	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
1/20/2025 9:00	67503	WEWI_T2	0	2	2	0	0.6	0.6	-0.91	-0.32	1	0	-1	600	0	-600
1/20/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
1/20/2025 9:00	40504	CRES_T1	13	5	-8	0.38	0.18	-0.2	0	0	0	0	0	0	0	0
1/20/2025 9:13	40201	BEGA_T2	6	1	-5	0.7	2.8	2.1	0	0	0	0	0	0	0	0
1/20/2025 9:31	53801	MBRG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/20/2025 9:31	53803	MBRG_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
1/20/2025 9:31	53802	MBRG_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/20/2025 9:47	20602	GRWO_T2	24	41	17	0.64	0.52	-0.12	0	0	0	0	0	0	0	0
1/20/2025 9:47	20601	GRWO_T2	199	221	22	1.18	1.27	0.09	0.43	0.38	0	0	0	0	0	0
1/20/2025 9:47	20603	GRWO_T2	22	47	25	0.73	0.82	0.09	0	0	0	0	0	0	0	0
1/20/2025 9:54	16102	BING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/20/2025 9:54	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/20/2025 9:54	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/20/2025 10:11	46204	DANV_T2	123	128	5	1.17	0.8	-0.37	0	0	0	0	0	0	0	0
1/20/2025 10:11	46206	DANV_T2	36	43	7	0.44	0.54	0.1	2.83	2.76	4	4	0	4200	4200	0
1/20/2025 10:11	46203	DANV_T2	5	6	1	0.76	0.76	0	0	0	0	0	0	0	0	0
1/20/2025 10:33	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/20/2025 10:48	55001	NEWP_T1	8	3	-5	0.81	0	-0.81	-0.7	-0.65	1	1	0	600	600	0
1/20/2025 10:50	15603	NSTR_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/20/2025 10:50	15601	NSTR_T2	151	147	-4	0.85	0.6	-0.25	0	0	0	0	0	0	0	0
1/20/2025 10:51	55001	NEWP_T1	8	3	-5	0.81	0	-0.81	-0.65	-0.61	1	1	0	600	600	0
1/20/2025 10:59	44904	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/20/2025 10:59	44905	SCOT_T1	34	37	3	0.58	0.61	0.03	0	0	0	0	0	0	0	0
1/20/2025 11:14	41801	GOCI_T2	13	19	6	0.38	0.28	-0.1	0	0	0	0	0	0	0	0
1/20/2025 11:15	46501	LOHA_T1	128	113	-15	1.06	0.88	-0.18	0	0	0	0	0	0	0	0
1/20/2025 11:15	46503	LOHA_T1	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
1/20/2025 11:15	46506	LOHA_T1	7	4	-3	0.74	0.8	0.06	0.06	-1.05	0	1	1	0	900	900
1/20/2025 11:17	46503	LOHA_T1	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
1/20/2025 11:17	46506	LOHA_T1	7	4	-3	0.74	0.8	0.06	0.12	-2.1	0	2	2	0	1800	1800
1/20/2025 11:17	46501	LOHA_T1	128	113	-15	1.06	0.88	-0.18	0	0	0	0	0	0	0	0
1/20/2025 11:19	46501	LOHA_T1	128	113	-15	1.06	0.88	-0.18	0.05	0	1	1	0	1200	1200	0
1/20/2025 11:19	46503	LOHA_T1	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
1/20/2025 11:19	46506	LOHA_T1	7	4	-3	0.74	0.8	0.06	0	0	0	0	0	0	0	0
1/20/2025 11:24	43304	WATS_T2	3	12	9	0.27	0	-0.27	-1.29	-1.27	1	1	0	600	600	0
1/20/2025 11:24	43301	WATS_T2	11	6	-5	0.25	0.3	0.05	0	0	0	0	0	0	0	0
1/20/2025 11:43	46206	DANV_T2	51	43	-8	0.59	0.37	-0.22	0	0	0	0	0	0	0	0
1/20/2025 11:43	46204	DANV_T2	127	127	0	1.38	0.96	-0.42	0	0	0	0	0	0	0	0
1/20/2025 11:43	46203	DANV_T2	3	7	4	0.27	0.18	-0.09	-2.47	-2.5	0	0	0	0	0	0
1/20/2025 11:43	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/20/2025 11:58	44902	SCOT_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
1/20/2025 12:04	13503	MCMI_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
1/20/2025 12:05	13503	MCMI_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
1/20/2025 12:10	44301	BEAV_T2	1	1	0	0.7	0	-0.7	-0.85	-0.86	2	2	0	1500	1500	0
1/20/2025 12:10	40602	PIGR_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/20/2025 12:10	21501	CEAV_T2	0	0	0	0	0	0	0.05	-0.16	1	1	0	1200	1200	0
1/20/2025 12:15	46802	HEPB_T1	1	1	0	0.9	0.9	0	-1.16	-1.18	0	0	0	0	0	0
1/20/2025 12:20	13704	SOHN_T2	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
1/20/2025 12:28	44703	MUNC_T2	2	0	-2	1	0	-1	0	0	0	0	0	0	0	0
1/20/2025 12:28	44701	MUNC_T2	3	2	-1	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
1/20/2025 12:30	10801	CHHI_T1	10	28	18	0.62	0.54	-0.08	-1.69	-1.7	3	3	0	2100	2100	0
1/20/2025 12:35	46506	LOHA_T1	2	3	1	0.65	1.2	0.55	0	0	0	0	0	0	0	0
1/20/2025 12:35	46503	LOHA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/20/2025 12:35	46501	LOHA_T1	51	69	18	0.76	0.58	-0.18	0.02	0	1	1	0	1200	1200	0
1/20/2025 12:41	45502	DERR_T2	1	0	-1	1.8	0	-1.8	0	0	0	0	0	0	0	0
1/20/2025 12:41	45501	DERR_T2	0	4	4	0	0.4	0.4	0.91	0.88	4	4	0	3600	3600	0
1/20/2025 12:57	46206	DANV_T2	25	16	-9	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/20/2025 12:57	24102	EHAZ_T1	53	95	42	0.95	0.66	-0.29	0	0	0	0	0	0	0	0
1/20/2025 12:57	24105	EHAZ_T1	29	36	7	1.8	2.16	0.36	0	0	0	0	0	0	0	0
1/20/2025 12:57	46203	DANV_T2	2	3	1	0.15	0	-0.15	-2.49	-2.5	0	0	0	0	0	0
1/20/2025 12:57	46204	DANV_T2	135	88	-47	1.01	0.34	-0.67	0	0	0	0	0	0	0	0
1/20/2025 12:57	24101	EHAZ_T1	123	191	68	1.72	1.46	-0.26	0	0	0	0	0	0	0	0
1/20/2025 12:57	24103	EHAZ_T1	3	5	2	0.43	0.37	-0.06	-2.11	-2.19	0	0	0	0	0	0
1/20/2025 12:59	24101	EHAZ_T1	123	191	68	1.72	1.46	-0.26	0	0	0	0	0	0	0	0
1/20/2025 12:59	24105	EHAZ_T1	29	36	7	1.8	2.16	0.36	0	0	0	0	0	0	0	0
1/20/2025 12:59	24102	EHAZ_T1	53	95	42	0.95	0.66	-0.29	-0.05	0.02	0	0	0	0	0	0
1/20/2025 12:59	24103	EHAZ_T1	3	5	2	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
1/20/2025 13:28	17802	GILB_T1	3	1	-2	0.43	0	-0.43	0.27	0.33	0	0	0	0	0	0
1/20/2025 13:28	44301	BEAV_T2	2	1	-1	0.55	1	0.45	0	0	0	0	0	0	0	0
1/20/2025 13:40	46005	BERW_T1	11	11	0	0.35	0	-0.35	0	0	0	0	0	0	0	0
1/20/2025 13:40	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/20/2025 13:42	53501	EVIL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
1/20/2025 13:42	53502	EVIL_T2	1	12	11	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/20/2025 14:00	23401	HONE_T2	27	47	20	0.64	0.44	-0.2	0.29	0.3	0	0	0	0	0	0
1/20/2025 14:00	23402	HONE_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
1/20/2025 14:01	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/20/2025 14:12	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/20/2025 14:21	56501	ROCK_T2	2	3	1	0.15	0.5	0.35	-1.37	-1.37	0	0	0	0	0	0
1/20/2025 14:26	43401	BENT_T1	0	11	11	0	0.61	0.61	0	0	0	0	0	0	0	0
1/20/2025 14:26	43402	BENT_T1	0	0	0	0	0	0	-0.87	0.06	1	0	-1	900	0	-900
1/20/2025 14:57	44901	SCOT_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
1/20/2025 15:10	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/20/2025 15:10	43304	WATS_T2	0	7	7	0	0.35	0.35	-0.8	-0.78	0	0	0	0	0	0
1/20/2025 15:38	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/20/2025 15:54	67402	WAKE_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
1/20/2025 15:54	67401	WAKE_T2	41	29	-12	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
1/20/2025 16:00	40101	HUNT_T2	993	1094	101	2.45	2.42	-0.03	-1.35	-1.4	0	0	0	0	0	0
1/20/2025 16:23	43304	WATS_T2	4	26	22	0.33	0.38	0.05	-0.78	-1.29	0	1	1	0	600	600
1/20/2025 16:23	43301	WATS_T2	4	19	15	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
1/20/2025 16:40	55101	WERT_T1	0	0	0	0	0	0	-1.57	-1.6	2	2	0	1500	1500	0
1/20/2025 16:44	51802	EBEN_T2	0	0	0	0	0	0	-0.25	-0.3	1	1	0	900	900	0
1/20/2025 16:44	51804	EBEN_T2	1	1	0	0.7	1.5	0.8	0	0	0	0	0	0	0	0
1/20/2025 19:07	21501	CEAV_T2	0	0	0	0	0	0	-0.19	-0.19	1	1	0	1200	1200	0
1/20/2025 19:09	46504	LOHA_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
1/20/2025 19:09	46501	LOHA_T1	31	17	-14	0.96	1.2	0.24	0	0	0	0	0	0	0	0
1/20/2025 19:09	15601	NSTR_T2	133	172	39	0.86	0.89	0.03	0	0	0	0	0	0	0	0
1/20/2025 19:09	46506	LOHA_T1	6	4	-2	0.72	0.87	0.15	0.1	0.08	0	0	0	0	0	0
1/20/2025 19:09	44901	SCOT_T2	0	0	0	0	0	0	-0.07	-0.02	0	0	0	0	0	0
1/20/2025 19:10	24105	EHAZ_T1	23	35	12	4.21	2.95	-1.26	0	0	0	0	0	0	0	0
1/20/2025 19:10	24102	EHAZ_T1	52	44	-8	1.12	1.25	0.13	0	0	0	0	0	0	0	0
1/20/2025 19:10	23401	HONE_T2	26	98	72	0.65	0.39	-0.26	0.02	-0.01	0	0	0	0	0	0
1/20/2025 19:10	24103	EHAZ_T1	7	14	7	0.49	0.25	-0.24	-2.41	-2.38	0	0	0	0	0	0
1/20/2025 19:10	24101	EHAZ_T1	76	126	50	1.76	1.79	0.03	0	0	0	0	0	0	0	0
1/20/2025 19:11	40201	BEGA_T2	96	161	65	0.59	0.47	-0.12	0	0	0	0	0	0	0	0
1/20/2025 19:12	24105	EHAZ_T1	23	35	12	4.21	2.95	-1.26	0	0	0	0	0	0	0	0
1/20/2025 19:12	24103	EHAZ_T1	7	14	7	0.49	0.25	-0.24	0	0	0	0	0	0	0	0
1/20/2025 19:12	46204	DANV_T2	129	133	4	1.62	1.41	-0.21	0	0	0	0	0	0	0	0
1/20/2025 19:12	46206	DANV_T2	86	74	-12	0.63	0.62	-0.01	2.67	2.68	4	4	0	4200	4200	0
1/20/2025 19:12	24102	EHAZ_T1	52	44	-8	1.12	1.25	0.13	-0.23	-0.22	0	0	0	0	0	0
1/20/2025 19:12	46203	DANV_T2	51	81	30	0.57	0.58	0.01	0	0	0	0	0	0	0	0
1/20/2025 19:12	24101	EHAZ_T1	76	126	50	1.76	1.79	0.03	0	0	0	0	0	0	0	0
1/20/2025 19:14	20603	GRWO_T2	60	63	3	1.69	1.11	-0.58	0	0	0	0	0	0	0	0
1/20/2025 19:14	10801	CHHI_T1	9	18	9	0.42	0.26	-0.16	-1.75	-1.74	3	3	0	2100	2100	0
1/20/2025 19:14	20602	GRWO_T2	28	31	3	1.03	1	-0.03	0	0	0	0	0	0	0	0
1/20/2025 19:14	45501	DERR_T2	23	13	-10	0.5	0.43	-0.07	0.59	0.63	2	2	0	1800	1800	0
1/20/2025 19:14	20601	GRWO_T2	201	230	29	1.27	1.3	0.03	0.41	0.44	0	0	0	0	0	0
1/20/2025 19:14	45502	DERR_T2	23	20	-3	0.64	0.53	-0.11	0	0	0	0	0	0	0	0
1/20/2025 19:14	67402	WAKE_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
1/20/2025 19:14	44902	SCOT_T2	0	0	0	0	0	0	-0.81	-0.8	0	0	0	0	0	0
1/20/2025 19:15	46203	DANV_T2	51	89	38	0.57	0.77	0.2	-2.21	-2.16	0	0	0	0	0	0
1/20/2025 19:15	45502	DERR_T2	15	48	33	0.61	0.51	-0.1	0	0	0	0	0	0	0	0
1/20/2025 19:15	46501	LOHA_T1	13	23	10	1.32	1.2	-0.12	-0.06	-0.07	1	1	0	1200	1200	0
1/20/2025 19:15	45501	DERR_T2	13	10	-3	0.48	0.45	-0.03	0.59	0.63	2	2	0	1800	1800	0
1/20/2025 19:15	46506	LOHA_T1	4	4	0	1.08	0	-1.08	0	0	0	0	0	0	0	0
1/20/2025 19:15	46802	HEPB_T1	1	1	0	0.4	0.3	-0.1	-1.03	-1.02	0	0	0	0	0	0
1/20/2025 19:15	46504	LOHA_T1	1	3	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/20/2025 19:15	46206	DANV_T2	51	90	39	0.64	0.59	-0.05	0	0	0	0	0	0	0	0
1/20/2025 19:15	46204	DANV_T2	129	136	7	1.41	1.8	0.39	0	0	0	0	0	0	0	0
1/20/2025 19:15	13503	MCMI_T2	3	19	16	0.23	0.26	0.03	-0.25	-0.21	0	0	0	0	0	0
1/20/2025 19:16	43304	WATS_T2	32	30	-2	0.93	0.62	-0.31	-1.22	-1.25	1	1	0	600	600	0
1/20/2025 19:16	46001	BERW_T1	5	5	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/20/2025 19:16	43301	WATS_T2	20	54	34	0.36	0.46	0.1	0	0	0	0	0	0	0	0
1/20/2025 19:16	46005	BERW_T1	11	11	0	0.94	0	-0.94	0	0	0	0	0	0	0	0
1/20/2025 19:17	43301	WATS_T2	20	54	34	0.36	0.46	0.1	0	0	0	0	0	0	0	0
1/20/2025 19:17	43304	WATS_T2	32	30	-2	0.93	0.62	-0.31	-1.22	-1.25	1	1	0	600	600	0
1/20/2025 19:18	54601	SUMM_T2	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
1/20/2025 19:18	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/20/2025 19:19	53803	MBRG_T2	0	1	1	0	0	0	0.07	0.07	0	0	0	0	0	0
1/20/2025 19:19	43401	BENT_T1	1	6	5	0.3	0.33	0.03	0	0	0	0	0	0	0	0
1/20/2025 19:19	53802	MBRG_T2	3	3	0	0.27	0	-0.27	0	0	0	0	0	0	0	0
1/20/2025 19:19	43402	BENT_T1	0	0	0	0	0	0	-0.84	-0.87	1	1	0	900	900	0
1/20/2025 19:19	46005	BERW_T1	11	11	0	0.94	0	-0.94	0	0	0	0	0	0	0	0
1/20/2025 19:19	53801	MBRG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/20/2025 19:19	46001	BERW_T1	5	5	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/20/2025 19:20	46504	LOHA_T1	1	3	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/20/2025 19:20	46204	DANV_T2	129	136	7	1.41	1.8	0.39	0	0	0	0	0	0	0	0
1/20/2025 19:20	40101	HUNT_T2	1370	1391	21	3.4	3.37	-0.03	-1.22	-1.26	0	0	0	0	0	0
1/20/2025 19:20	46206	DANV_T2	51	90	39	0.64	0.59	-0.05	0	0	0	0	0	0	0	0
1/20/2025 19:20	46501	LOHA_T1	13	23	10	1.32	1.2	-0.12	0	0	0	0	0	0	0	0
1/20/2025 19:20	46506	LOHA_T1	4	4	0	1.08	0	-1.08	0.1	0.08	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/20/2025 19:20	46203	DANV_T2	51	89	38	0.57	0.77	0.2	-2.21	-2.16	0	0	0	0	0	0
1/20/2025 19:20	44301	BEAV_T2	8	19	11	0.76	1.03	0.27	0	0	0	0	0	0	0	0
1/20/2025 19:20	13704	SCHN_T2	1	0	-1	0.3	0	-0.3	-1.75	-1.71	0	0	0	0	0	0
1/20/2025 19:21	40602	PIGR_T1	0	3	3	0	0.35	0.35	0	0	0	0	0	0	0	0
1/20/2025 19:21	40603	PIGR_T1	2	3	1	1.15	1.3	0.15	0	0	0	0	0	0	0	0
1/20/2025 19:21	53501	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/20/2025 19:21	44301	BEAV_T2	8	19	11	0.76	1.03	0.27	0.04	0.09	1	1	0	600	600	0
1/20/2025 19:21	53502	EVIL_T2	12	17	5	0.84	2.14	1.3	0	0	0	0	0	0	0	0
1/20/2025 19:22	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/20/2025 19:22	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/20/2025 19:22	46005	BERW_T1	11	11	0	0.94	0	-0.94	0	0	0	0	0	0	0	0
1/20/2025 19:22	46001	BERW_T1	5	5	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/20/2025 19:23	55001	NEWP_T1	10	19	9	0.31	0.2	-0.11	-1.07	-1.17	1	1	0	600	600	0
1/20/2025 19:23	55101	WERT_T1	0	0	0	0	0	0	-1.63	-1.61	2	2	0	1500	1500	0
1/20/2025 19:23	55105	WERT_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/20/2025 19:23	44701	MUNC_T2	29	9	-20	0.51	0.2	-0.31	0	0	0	0	0	0	0	0
1/20/2025 19:23	44703	MUNC_T2	3	9	6	0.3	0.3	0	0	0	0	0	0	0	0	0
1/20/2025 19:23	55002	NEWP_T1	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
1/20/2025 19:25	55002	NEWP_T1	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
1/20/2025 19:25	55001	NEWP_T1	10	19	9	0.31	0.2	-0.11	-1.07	-1.17	1	1	0	600	600	0
1/20/2025 19:25	17802	GILB_T1	59	105	46	0.52	0.58	0.06	0.46	0.48	0	0	0	0	0	0
1/20/2025 19:26	56501	ROCK_T2	10	15	5	0.23	0.28	0.05	-2.08	-2.05	0	0	0	0	0	0
1/20/2025 19:27	43301	WATS_T2	20	54	34	0.36	0.46	0.1	0	0	0	0	0	0	0	0
1/20/2025 19:27	43304	WATS_T2	32	30	-2	0.93	0.62	-0.31	-1.25	-1.27	1	1	0	600	600	0
1/20/2025 19:28	41801	GOCI_T2	9	9	0	0.51	0.4	-0.11	0	0	0	0	0	0	0	0
1/20/2025 19:28	44905	SCOT_T1	58	63	5	1.35	1.08	-0.27	0	0	0	0	0	0	0	0
1/20/2025 19:29	46506	LOHA_T1	4	4	0	1.08	0	-1.08	0.08	0.09	0	0	0	0	0	0
1/20/2025 19:29	46504	LOHA_T1	1	3	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/20/2025 19:29	46501	LOHA_T1	13	23	10	1.32	1.2	-0.12	0	0	0	0	0	0	0	0
1/20/2025 19:30	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/20/2025 19:30	46504	LOHA_T1	3	0	-3	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/20/2025 19:30	46501	LOHA_T1	17	20	3	1.16	1.28	0.12	-0.07	-0.04	1	1	0	1200	1200	0
1/20/2025 19:30	46506	LOHA_T1	1	7	6	2.2	0.25	-1.95	0	0	0	0	0	0	0	0
1/21/2025 8:41	55101	WERT_T1	0	0	0	0	0	0	-1.95	-2.04	3	3	0	2400	2400	0
1/21/2025 8:41	55105	WERT_T1	5	3	-2	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
1/21/2025 8:42	55101	WERT_T1	0	0	0	0	0	0	-1.95	-2.04	3	3	0	2400	2400	0
1/21/2025 8:42	55105	WERT_T1	5	3	-2	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
1/21/2025 8:46	66502	SMAN_T2	0	0	0	0	0	0	0.3	0.52	0	0	0	0	0	0
1/21/2025 9:00	40504	CRES_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
1/21/2025 9:00	40101	HUNT_T2	1265	1411	146	3.91	3.44	-0.47	-1.13	-1.1	0	0	0	0	0	0
1/21/2025 9:00	40503	CRES_T1	9	11	2	0.58	0.4	-0.18	0	0	0	0	0	0	0	0
1/21/2025 9:00	67503	WEWI_T2	0	1	1	0	0	0	-0.07	0.56	0	0	0	0	0	0
1/21/2025 9:00	40505	CRES_T1	0	1	1	0	0	0	0.64	0.62	0	0	0	0	0	0
1/21/2025 9:08	55101	WERT_T1	0	4	4	0	0.2	0.2	-1.09	-1.13	2	2	0	1500	1500	0
1/21/2025 9:08	55105	WERT_T1	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
1/21/2025 9:13	55101	WERT_T1	0	4	4	0	0.2	0.2	-1.09	-1.13	2	2	0	1500	1500	0
1/21/2025 9:13	55105	WERT_T1	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
1/21/2025 9:20	13503	MCMI_T2	15	17	2	0.41	0.32	-0.09	-0.12	-0.11	0	0	0	0	0	0
1/21/2025 9:21	52502	PROG_T2	0	0	0	0	0	0	-0.05	-0.07	1	1	0	900	900	0
1/21/2025 9:29	40201	BEGA_T2	8	16	8	0.66	0.97	0.31	0	0	0	0	0	0	0	0
1/21/2025 9:30	45502	DERR_T2	2	1	-1	1.2	1.8	0.6	0	0	0	0	0	0	0	0
1/21/2025 9:30	45501	DERR_T2	33	7	-26	0.47	0.4	-0.07	1.25	1.08	4	4	0	3600	3600	0
1/21/2025 9:33	41801	GOCI_T2	15	20	5	0.67	0.75	0.08	0	0	0	0	0	0	0	0
1/21/2025 9:33	28403	HART_T2	2	1	-1	0.7	0	-0.7	-0.5	-0.46	1	1	0	900	900	0
1/21/2025 9:33	46602	LACR_T1	11	4	-7	0.71	0.6	-0.11	-0.59	-0.61	0	0	0	0	0	0
1/21/2025 9:34	20601	GRWO_T2	240	234	-6	1.32	1.22	-0.1	0.31	0.32	0	0	0	0	0	0
1/21/2025 9:34	20603	GRWO_T2	62	61	-1	1.39	1.03	-0.36	0	0	0	0	0	0	0	0
1/21/2025 9:34	20602	GRWO_T2	15	16	1	1.42	0.41	-1.01	0	0	0	0	0	0	0	0
1/21/2025 9:34	46602	LACR_T1	11	4	-7	0.71	0.6	-0.11	-0.59	-0.61	0	0	0	0	0	0
1/21/2025 9:36	15601	NSTR_T2	138	137	-1	0.87	0.72	-0.15	0	0	0	0	0	0	0	0
1/21/2025 9:36	15603	NSTR_T2	5	1	-4	0.78	0	-0.78	0	0	0	0	0	0	0	0
1/21/2025 9:41	44301	BEAV_T2	7	7	0	0.57	0.63	0.06	0	0	0	0	0	0	0	0
1/21/2025 9:41	44302	BEAV_T2	5	5	0	0.72	0.33	-0.39	0	0	0	0	0	0	0	0
1/21/2025 9:46	65503	MOJO_T2	0	19	19	0	0.11	0.11	0	0	0	0	0	0	0	0
1/21/2025 9:46	65502	MOJO_T2	0	208	208	0	0.16	0.16	0	0	0	0	0	0	0	0
1/21/2025 9:47	46206	DANV_T2	3	1	-2	0.67	0	-0.67	0	0	0	0	0	0	0	0
1/21/2025 9:47	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/21/2025 9:47	46204	DANV_T2	121	122	1	1.1	0.75	-0.35	0	0	0	0	0	0	0	0
1/21/2025 9:47	46203	DANV_T2	29	14	-15	0.71	0.45	-0.26	-2.13	-2.18	0	0	0	0	0	0
1/21/2025 9:58	42902	MIDD_T2	30	30	0	2.79	0.69	-2.1	-0.46	-0.48	1	1	0	600	600	0
1/21/2025 9:58	42903	MIDD_T2	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/21/2025 9:59	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/21/2025 9:59	41902	REED_T1	125	94	-31	0.65	0.47	-0.18	-0.27	-0.19	1	1	0	900	900	0
1/21/2025 9:59	41903	REED_T1	27	21	-6	0.6	0.41	-0.19	0	0	0	0	0	0	0	0
1/21/2025 10:01	66502	SMAN_T2	0	0	0	0	0	0	0.45	0.42	0	0	0	0	0	0
1/21/2025 10:01	42903	MIDD_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/21/2025 10:01	42902	MIDD_T2	30	13	-17	1.27	0.57	-0.7	-0.46	-0.48	1	1	0	600	600	0
1/21/2025 10:01	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/21/2025 10:04	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/21/2025 10:05	66502	SMAN_T2	0	0	0	0	0	0	0.9	0.84	0	0	0	0	0	0
1/21/2025 10:07	22003	BOHE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/21/2025 10:29	55101	WERT_T1	3	9	6	0.1	0.66	0.56	-1.09	-1.11	2	2	0	1500	1500	0
1/21/2025 10:31	53501	EVIL_T2	3	4	1	0.27	0.5	0.23	0	0	0	0	0	0	0	0
1/21/2025 10:31	53502	EVIL_T2	12	13	1	0.79	2.25	1.46	0	0	0	0	0	0	0	0
1/21/2025 10:34	46206	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/21/2025 10:34	46204	DANV_T2	112	94	-18	0.9	0.44	-0.46	0	0	0	0	0	0	0	0
1/21/2025 10:34	46203	DANV_T2	7	8	1	0.57	0.35	-0.22	-0.96	-0.98	0	0	0	0	0	0
1/21/2025 10:36	59402	RFLD_T2	0	0	0	0	0	0	-0.58	-0.56	1	1	0	450	450	0
1/21/2025 10:42	41602	CLEV_T1	69	21	-48	0.67	0.42	-0.25	0	0	1	1	0	600	600	0
1/21/2025 10:45	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/21/2025 10:45	66504	SMAN_T2	0	0	0	0	0	0	-1.13	-1.17	1	1	0	1200	1200	0
1/21/2025 10:51	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/21/2025 10:51	66504	SMAN_T2	0	0	0	0	0	0	-2.25	-2.33	2	2	0	2400	2400	0
1/21/2025 10:51	51204	MTON_T2	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
1/21/2025 10:54	64802	MONE_T2	8	9	1	0.2	0.21	0.01	0	0	0	0	0	0	0	0
1/21/2025 10:54	64801	MONE_T2	4	2	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
1/21/2025 10:56	67001	STHI_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/21/2025 10:56	67002	STHI_T2	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
1/21/2025 11:01	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/21/2025 11:05	17802	GILB_T1	34	22	-12	0.56	1	0.44	0.58	0.52	0	0	0	0	0	0
1/21/2025 11:05	52502	PROG_T2	0	0	0	0	0	0	-0.17	-0.18	1	1	0	900	900	0
1/21/2025 11:07	13503	MCMI_T2	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
1/21/2025 11:07	52502	PROG_T2	0	0	0	0	0	0	-0.18	-0.21	1	1	0	900	900	0
1/21/2025 11:14	16102	BING_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/21/2025 11:14	16103	BING_T2	3	2	-1	0.53	0	-0.53	0	0	0	0	0	0	0	0
1/21/2025 11:20	22803	HAUT_T2	74	84	10	1.9	1.77	-0.13	0	0	0	0	0	0	0	0
1/21/2025 11:20	22805	HAUT_T2	277	323	46	1.14	1.09	-0.05	0	0	0	0	0	0	0	0
1/21/2025 11:26	13704	SCHN_T2	8	3	-5	0.13	0	-0.13	-0.57	-0.59	0	0	0	0	0	0
1/21/2025 11:26	55101	WERT_T1	7	9	2	0.41	0.55	0.14	-1.25	-1.21	2	2	0	1500	1500	0
1/21/2025 11:30	10801	CHHI_T1	6	8	2	1.02	1.06	0.04	-0.95	-0.93	2	2	0	1500	1500	0
1/21/2025 11:33	26704	HEMI_T2	0	0	0	0	0	0	-1.64	-1.63	1	1	0	1200	1200	0
1/21/2025 11:34	12402	MILF_T1	1	1	0	3.1	0	-3.1	0	0	0	0	0	0	0	0
1/21/2025 11:34	12401	MILF_T1	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
1/21/2025 11:41	44301	BEAV_T2	4	2	-2	0.73	0.6	-0.13	0.37	0.13	2	2	0	1500	1500	0
1/21/2025 11:44	44301	BEAV_T2	4	2	-2	0.73	0.6	-0.13	0.37	0.13	2	2	0	1500	1500	0
1/21/2025 11:46	44201	POIN_T1	21	16	-5	0.13	0.12	-0.01	-2.08	-2.14	2	2	0	2100	2100	0
1/21/2025 11:48	44201	POIN_T1	21	16	-5	0.13	0.12	-0.01	-2.08	-2.14	2	2	0	2100	2100	0
1/21/2025 11:50	54701	NEBL_T1	2	4	2	1.3	0.7	-0.6	0	0	0	0	0	0	0	0
1/21/2025 11:50	55001	NEWP_T1	1	9	8	0.2	0.3	0.1	-0.54	-0.57	1	1	0	600	600	0
1/21/2025 11:52	55001	NEWP_T1	1	9	8	0.2	0.3	0.1	-0.57	0.05	1	0	-1	600	0	-600
1/21/2025 11:53	40601	PIGR_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
1/21/2025 11:53	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/21/2025 11:53	40603	PIGR_T1	3	17	14	0.47	0.38	-0.09	0	0	0	0	0	0	0	0
1/21/2025 11:59	42903	MIDD_T2	0	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0
1/21/2025 11:59	47203	FAXO_T2	1	1	0	2.4	2	-0.4	-2.34	-2.34	1	1	0	1200	1200	0
1/21/2025 11:59	42902	MIDD_T2	11	2	-9	0.59	0	-0.59	-0.65	-0.02	1	0	-1	600	0	-600
1/21/2025 11:59	60803	BUCK_T1	9	19	10	0.3	0.43	0.13	-0.8	-0.82	2	2	0	1200	1200	0
1/21/2025 11:59	47201	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/21/2025 11:59	60801	BUCK_T1	0	11	11	0	0.15	0.15	0	0	0	0	0	0	0	0
1/21/2025 12:00	60803	BUCK_T1	12	18	6	0.29	0.44	0.15	-0.4	-0.41	1	1	0	600	600	0
1/21/2025 12:00	60801	BUCK_T1	0	11	11	0	0.15	0.15	0	0	0	0	0	0	0	0
1/21/2025 12:07	52502	PROG_T2	0	0	0	0	0	0	-0.23	-0.23	1	1	0	900	900	0
1/21/2025 12:12	59101	WALK_T2	0	0	0	0	0	0	0.47	0.34	0	0	0	0	0	0
1/21/2025 12:12	59102	WALK_T2	4	15	11	0.1	0.26	0.16	0	0	0	0	0	0	0	0
1/21/2025 12:13	42701	AUGU_T1	3	9	6	0.7	0.24	-0.46	0	0	0	0	0	0	0	0
1/21/2025 12:17	66505	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/21/2025 12:17	66502	SMAN_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
1/21/2025 12:18	59301	MCAL_T1	3	2	-1	1.47	1.9	0.43	-0.97	-0.95	0	0	0	0	0	0
1/21/2025 12:18	59302	MCAL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/21/2025 12:20	52401	GRPA_T2	0	0	0	0	0	0	0.03	0.06	0	0	0	0	0	0
1/21/2025 12:20	52402	GRPA_T2	79	86	7	1.25	0.77	-0.48	0	0	0	0	0	0	0	0
1/21/2025 12:20	52403	GRPA_T2	62	79	17	0.52	0.62	0.1	0	0	0	0	0	0	0	0
1/21/2025 12:20	52404	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/21/2025 12:32	54505	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/21/2025 12:32	54503	ENOL_T2	1	0	-1	0.9	0	-0.9	-0.27	-0.25	1	1	0	600	600	0
1/21/2025 12:42	24204	PROV_T3	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
1/21/2025 12:42	24201	PROV_T3	3	3	0	5.67	5.57	-0.1	-1.28	-1.3	1	1	0	1200	1200	0
1/21/2025 12:46	10805	CHHI_T2	7	7	0	4.07	2.5	-1.57	-0.91	-0.88	1	1	0	600	600	0
1/21/2025 13:03	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/21/2025 13:03	64201	KINZ_T1	0	0	0	0	0	0	-0.21	-0.58	3	3	0	1500	1500	0
1/21/2025 13:03	64203	KINZ_T1	8	8	0	2.03	1.98	-0.05	0	0	0	0	0	0	0	0
1/21/2025 13:03	64204	KINZ_T1	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
1/21/2025 13:10	56501	ROCK_T2	8	67	59	0.45	0.2	-0.25	-1.53	-1.55	0	0	0	0	0	0
1/21/2025 13:11	42203	SHEN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/21/2025 13:11	42201	SHEN_T2	1	1	0	1	0.3	-0.7	0	0	0	0	0	0	0	0
1/21/2025 13:15	44902	SCOT_T2	30	369	339	0.14	0.31	0.17	-0.81	-0.77	0	0	0	0	0	0
1/21/2025 13:15	44901	SCOT_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/21/2025 13:26	48302	ORWI_T2	2	2	0	0.3	0.25	-0.05	-0.38	-0.39	0	0	0	0	0	0
1/21/2025 14:06	40302	TAMA_T3	7	10	3	0.31	0.44	0.13	0	0	0	0	0	0	0	0
1/21/2025 14:06	40301	TAMA_T3	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/21/2025 14:34	46501	LOHA_T1	2	3	1	1.5	1.35	-0.15	0	0	0	0	0	0	0	0
1/21/2025 14:34	46504	LOHA_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
1/21/2025 14:34	64801	MONE_T2	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/21/2025 14:34	46502	LOHA_T1	0	0	0	0	0	0	-1.34	-1.35	1	1	0	1200	1200	0
1/21/2025 14:34	46506	LOHA_T1	4	3	-1	1.68	2.03	0.35	0	0	0	0	0	0	0	0
1/21/2025 14:34	64802	MONE_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/21/2025 15:02	46802	HEPB_T1	50	25	-25	0.29	0.27	-0.02	-1.18	-1.16	0	0	0	0	0	0
1/21/2025 15:08	54601	SUMM_T2	0	0	0	0	0	0	-1.54	-1.55	2	2	0	2100	2100	0
1/21/2025 15:10	43304	WATS_T2	1	4	3	0.7	0.25	-0.45	-1.57	-1.7	0	0	0	0	0	0
1/21/2025 15:13	43304	WATS_T2	1	4	3	0.7	0.25	-0.45	-0.79	-0.85	0	0	0	0	0	0
1/21/2025 15:15	48902	FOSP_T2	98	134	36	0.23	0.29	0.06	0	0	0	0	0	0	0	0
1/21/2025 15:15	48901	FOSP_T2	11	17	6	0.46	0.43	-0.03	0	0	0	0	0	0	0	0
1/21/2025 15:20	12401	MILF_T1	0	0	0	0	0	0	-0.13	-0.1	0	0	0	0	0	0
1/21/2025 15:21	46204	DANV_T2	1	3	2	0.4	0.6	0.2	0	0	0	0	0	0	0	0
1/21/2025 15:21	46206	DANV_T2	0	4	4	0	0	0	1.47	1.76	2	2	0	2100	2100	0
1/21/2025 15:21	46203	DANV_T2	10	9	-1	0.78	0.8	0.02	0	0	0	0	0	0	0	0
1/21/2025 15:22	42301	MOWR_T2	1	2	1	0.4	0.3	-0.1	-0.28	-0.27	0	0	0	0	0	0
1/21/2025 15:22	42302	MOWR_T2	47	64	17	0.56	0.55	-0.01	0	0	0	0	0	0	0	0
1/21/2025 15:40	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/21/2025 15:43	51804	EBEN_T2	1	1	0	1	1.9	0.9	0	0	0	0	0	0	0	0
1/21/2025 15:43	51802	EBEN_T2	0	0	0	0	0	0	-0.21	-0.1	1	1	0	900	900	0
1/21/2025 15:48	44902	SCOT_T2	276	271	-5	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
1/21/2025 15:48	44901	SCOT_T2	1	0	-1	0.2	0	-0.2	0.18	0.21	0	0	0	0	0	0
1/21/2025 15:48	46506	LOHA_T1	3	4	1	1.87	1.43	-0.44	0	0	0	0	0	0	0	0
1/21/2025 15:48	46501	LOHA_T1	1	5	4	1.2	0.7	-0.5	0	0.15	1	1	0	1200	1200	0
1/21/2025 15:50	46506	LOHA_T1	3	4	1	1.87	1.43	-0.44	0	0	0	0	0	0	0	0
1/21/2025 15:50	46501	LOHA_T1	1	5	4	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
1/21/2025 15:50	46505	LOHA_T1	0	0	0	0	0	0	-0.24	-0.24	1	1	0	600	600	0
1/21/2025 15:51	44905	SCOT_T1	22	50	28	0.42	0.39	-0.03	0	0	0	0	0	0	0	0
1/21/2025 15:54	54603	SUMM_T2	0	0	0	0	0	0	-0.19	-0.24	1	1	0	900	900	0
1/21/2025 16:03	40901	JESH_T1	1	1	0	0.7	0.5	-0.2	-0.14	-0.22	1	1	0	600	600	0
1/21/2025 16:06	43801	SWIL_T1	21	19	-2	0.51	0.45	-0.06	0	0	0	0	0	0	0	0
1/21/2025 16:06	43802	SWIL_T1	0	0	0	0	0	0	-0.03	-0.02	1	1	0	600	600	0
1/21/2025 16:43	43304	WATS_T2	10	20	10	0.29	0.47	0.18	0	0	0	0	0	0	0	0
1/21/2025 16:43	43301	WATS_T2	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
1/21/2025 17:32	44801	EDAN_T2	5	3	-2	1.02	0.67	-0.35	-0.22	-0.22	0	0	0	0	0	0
1/21/2025 18:46	22002	BOHE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/21/2025 18:46	22003	BOHE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/21/2025 18:51	44801	EDAN_T2	4	4	0	0.55	0.68	0.13	-0.21	-0.21	0	0	0	0	0	0
1/21/2025 18:54	26704	HEML_T2	0	0	0	0	0	0	-1.64	-1.61	1	1	0	1200	1200	0
1/21/2025 18:59	64202	KINZ_T1	1	5	4	0.1	0.1	0	0	0	0	0	0	0	0	0
1/21/2025 18:59	64201	KINZ_T1	0	0	0	0	0	0	-0.59	-0.79	4	4	0	2100	2100	0
1/21/2025 18:59	64203	KINZ_T1	11	11	0	2.48	2.12	-0.36	0	0	0	0	0	0	0	0
1/21/2025 19:00	13503	MCMI_T2	1	4	3	0.1	0	-0.1	-0.13	-0.14	0	0	0	0	0	0
1/21/2025 19:02	48302	ORWI_T2	15	17	2	0.72	0.68	-0.04	-0.28	-0.35	0	0	0	0	0	0
1/21/2025 19:02	10805	CHHI_T2	7	12	5	2.79	3.14	0.35	-0.59	-0.67	1	1	0	600	600	0
1/21/2025 19:04	66505	SMAN_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
1/21/2025 19:04	16103	BING_T2	4	4	0	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
1/21/2025 19:04	16102	BING_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
1/21/2025 19:04	16101	BING_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/21/2025 19:04	66504	SMAN_T2	0	0	0	0	0	0	-1.2	-1.28	1	1	0	1200	1200	0
1/21/2025 19:04	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	-0.38	-0.4	1	1	0	600	600	0
1/21/2025 19:06	66502	SMAN_T2	0	0	0	0	0	0	0	-0.08	0	0	0	0	0	0
1/21/2025 19:06	66505	SMAN_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
1/21/2025 19:07	66502	SMAN_T2	0	0	0	0	0	0	-0.16	0.14	0	0	0	0	0	0
1/21/2025 19:07	47203	FAXO_T2	1	1	0	3.5	3.3	-0.2	-0.94	-0.97	0	0	0	0	0	0
1/21/2025 19:07	66505	SMAN_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
1/21/2025 19:08	46506	LOHA_T1	3	2	-1	0.63	0.1	-0.53	0	0	0	0	0	0	0	0
1/21/2025 19:08	46502	LOHA_T1	2	2	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/21/2025 19:08	46504	LOHA_T1	17	25	8	0.4	0.89	0.49	0	0	0	0	0	0	0	0
1/21/2025 19:08	46501	LOHA_T1	14	21	7	1.31	1.04	-0.27	0.06	0.12	1	1	0	1200	1200	0
1/21/2025 19:09	67002	STHI_T2	0	1	1	0	0.1	0.1	0.66	0.67	0	0	0	0	0	0
1/21/2025 19:09	46602	LACR_T1	4	3	-1	0.3	0.17	-0.13	-0.57	-0.61	0	0	0	0	0	0
1/21/2025 19:09	67001	STHI_T2	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/21/2025 19:10	24204	PROV_T3	2	2	0	2.95	2.85	-0.1	0	0	0	0	0	0	0	0
1/21/2025 19:10	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	-0.4	-0.38	1	1	0	600	600	0
1/21/2025 19:10	66504	SMAN_T2	0	0	0	0	0	0	-1.28	-1.2	1	1	0	1200	1200	0
1/21/2025 19:10	66505	SMAN_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
1/21/2025 19:10	24201	PROV_T3	6	6	0	3.87	4.12	0.25	-1.16	-1.19	1	1	0	1200	1200	0
1/21/2025 19:11	66505	SMAN_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
1/21/2025 19:11	66502	SMAN_T2	0	0	0	0	0	0	-0.08	0.07	0	0	0	0	0	0
1/21/2025 19:11	40201	BEGA_T2	41	49	8	0.63	0.86	0.23	0	0	0	0	0	0	0	0
1/21/2025 19:12	46506	LOHA_T1	3	2	-1	0.63	0.1	-0.53	0	0	0	0	0	0	0	0
1/21/2025 19:12	46502	LOHA_T1	2	2	0	0.6	0	-0.6	-1.29	-1.31	1	1	0	1200	1200	0
1/21/2025 19:12	46501	LOHA_T1	14	21	7	1.31	1.04	-0.27	0	0	0	0	0	0	0	0
1/21/2025 19:12	46504	LOHA_T1	17	25	8	0.4	0.89	0.49	0	0	0	0	0	0	0	0
1/21/2025 19:13	42701	AUGU_T1	19	21	2	0.45	0.49	0.04	0	0	0	0	0	0	0	0
1/21/2025 19:13	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/21/2025 19:14	46206	DANV_T2	11	3	-8	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
1/21/2025 19:14	46203	DANV_T2	24	70	46	0.54	0.58	0.04	-0.76	-0.74	0	0	0	0	0	0
1/21/2025 19:14	46204	DANV_T2	118	120	2	1.19	1	-0.19	0	0	0	0	0	0	0	0
1/21/2025 19:14	15601	NSTR_T2	169	96	-73	0.98	0.62	-0.36	0	0	0	0	0	0	0	0
1/21/2025 19:14	15603	NSTR_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/21/2025 19:15	60803	BUCK_T1	0	1	1	0	0.1	0.1	-0.4	-0.38	1	1	0	600	600	0
1/21/2025 19:15	42902	MIDD_T2	30	30	0	2.24	1.66	-0.58	-0.26	-0.26	0	0	0	0	0	0
1/21/2025 19:15	42903	MIDD_T2	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
1/21/2025 19:15	41901	REED_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
1/21/2025 19:15	41902	REED_T1	145	154	9	0.68	0.7	0.02	0.58	0.67	1	1	0	900	900	0
1/21/2025 19:15	46602	LACR_T1	2	5	3	0.25	0.2	-0.05	-0.57	-0.61	0	0	0	0	0	0
1/21/2025 19:15	46005	BERW_T1	11	11	0	0.95	0.21	-0.74	0	0	0	0	0	0	0	0
1/21/2025 19:15	40301	TAMA_T3	3	1	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/21/2025 19:15	52502	PROG_T2	0	0	0	0	0	0	-0.11	-0.1	1	1	0	900	900	0
1/21/2025 19:15	40302	TAMA_T3	6	9	3	0.6	0.62	0.02	0	0	0	0	0	0	0	0
1/21/2025 19:15	41903	REED_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/21/2025 19:15	46001	BERW_T1	38	38	0	0.72	0.29	-0.43	0	0	0	0	0	0	0	0
1/21/2025 19:16	12403	MILF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/21/2025 19:16	13503	MCMI_T2	0	4	4	0	0.27	0.27	-0.14	-0.11	0	0	0	0	0	0
1/21/2025 19:16	12401	MILF_T1	0	2	2	0	0	0	-0.05	-0.01	0	0	0	0	0	0
1/21/2025 19:16	10801	CHHI_T1	11	24	13	0.52	0.67	0.15	-1.01	-1.03	2	2	0	1500	1500	0
1/21/2025 19:17	46203	DANV_T2	45	76	31	0.59	0.83	0.24	0	0	0	0	0	0	0	0
1/21/2025 19:17	44901	SCOT_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/21/2025 19:17	44902	SCOT_T2	243	187	-56	0.4	0.31	-0.09	-0.8	-0.79	0	0	0	0	0	0
1/21/2025 19:17	59102	WALK_T2	27	24	-3	0.4	0.43	0.03	0	0	0	0	0	0	0	0
1/21/2025 19:17	46206	DANV_T2	1	5	4	0.4	0.3	-0.1	1.82	1.63	2	2	0	2100	2100	0
1/21/2025 19:17	44301	BEAV_T2	19	60	41	0.82	0.75	-0.07	0	0	0	0	0	0	0	0
1/21/2025 19:17	59101	WALK_T2	2	3	1	1.55	0.8	-0.75	0.68	0.71	1	1	0	600	600	0
1/21/2025 19:17	46204	DANV_T2	111	121	10	1	0.98	-0.02	0	0	0	0	0	0	0	0
1/21/2025 19:18	59301	MCAL_T1	2	2	0	2.15	1.5	-0.65	-1.06	-1.08	0	0	0	0	0	0
1/21/2025 19:18	45501	DERR_T2	19	53	34	0.56	0.53	-0.03	1.25	1.4	4	4	0	3600	3600	0
1/21/2025 19:18	40901	JESH_T1	1	1	0	1	0.7	-0.3	-0.17	-0.21	1	1	0	600	600	0
1/21/2025 19:18	59302	MCAL_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
1/21/2025 19:18	46005	BERW_T1	11	11	0	0.95	0.21	-0.74	0	0	0	0	0	0	0	0
1/21/2025 19:18	46001	BERW_T1	38	38	0	0.72	0.29	-0.43	1.09	1.08	0	0	0	0	0	0
1/21/2025 19:18	42902	MIDD_T2	30	30	0	2.24	1.66	-0.58	-0.26	-0.26	0	0	0	0	0	0
1/21/2025 19:18	44901	SCOT_T2	1	1	0	0.3	0.2	-0.1	0.11	0.11	0	0	0	0	0	0
1/21/2025 19:18	42201	SHEN_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
1/21/2025 19:18	20603	GRWO_T2	38	41	3	1.63	1.69	0.06	0	0	0	0	0	0	0	0
1/21/2025 19:18	42903	MIDD_T2	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
1/21/2025 19:18	44902	SCOT_T2	243	187	-56	0.4	0.31	-0.09	0	0	0	0	0	0	0	0
1/21/2025 19:18	20601	GRWO_T2	169	147	-22	1.08	0.86	-0.22	0.22	0.26	0	0	0	0	0	0
1/21/2025 19:18	45502	DERR_T2	19	55	36	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
1/21/2025 19:18	20602	GRWO_T2	6	9	3	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
1/21/2025 19:18	42203	SHEN_T2	2	1	-1	0.65	1.5	0.85	0	0	0	0	0	0	0	0
1/21/2025 19:18	17802	GILB_T1	160	162	2	0.95	0.85	-0.1	0.65	0.64	0	0	0	0	0	0
1/21/2025 19:19	40603	PIGR_T1	13	3	-10	0.32	1.1	0.78	0	0	0	0	0	0	0	0
1/21/2025 19:19	41602	CLEV_T1	10	13	3	0.23	0.2	-0.03	0	0	1	1	0	600	600	0
1/21/2025 19:19	40602	PIGR_T1	5	3	-2	0.62	0	-0.62	0	0	0	0	0	0	0	0
1/21/2025 19:19	40601	PIGR_T1	7	24	17	0.17	0.23	0.06	0	0	0	0	0	0	0	0
1/21/2025 19:19	46802	HEPB_T1	1	4	3	0.6	0.4	-0.2	-0.99	-0.94	0	0	0	0	0	0
1/21/2025 19:20	44201	POIN_T1	29	45	16	0.14	0.17	0.03	-2.12	-2.11	2	2	0	2100	2100	0
1/21/2025 19:20	46005	BERW_T1	11	11	0	0.95	0.21	-0.74	0	0	0	0	0	0	0	0
1/21/2025 19:20	46001	BERW_T1	38	38	0	0.72	0.29	-0.43	1.09	1.08	0	0	0	0	0	0
1/21/2025 19:20	43304	WATS_T2	25	52	27	0.66	0.96	0.3	-0.22	-0.87	0	1	1	0	600	600
1/21/2025 19:21	55001	NEWP_T1	10	28	18	0.22	0.28	0.06	-0.96	-0.98	0	0	0	0	0	0
1/21/2025 19:22	43304	WATS_T2	25	52	27	0.66	0.96	0.3	-0.87	-0.88	1	1	0	600	600	0
1/21/2025 19:22	44301	BEAV_T2	19	60	41	0.82	0.75	-0.07	-0.13	-0.07	1	1	0	600	600	0
1/21/2025 19:22	55101	WERT_T1	0	0	0	0	0	0	-1.61	-1.6	2	2	0	1500	1500	0
1/21/2025 19:24	46203	DANV_T2	45	76	31	0.59	0.83	0.24	-0.74	-0.78	0	0	0	0	0	0
1/21/2025 19:24	44301	BEAV_T2	19	60	41	0.82	0.75	-0.07	-0.13	-0.07	1	1	0	600	600	0
1/21/2025 19:24	65502	MOJO_T2	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
1/21/2025 19:24	52502	PROG_T2	0	0	0	0	0	0	-0.1	-0.11	1	1	0	900	900	0
1/21/2025 19:24	46206	DANV_T2	1	5	4	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
1/21/2025 19:24	13704	SOHN_T2	7	19	12	0.63	0.74	0.11	-0.51	-0.49	0	0	0	0	0	0
1/21/2025 19:24	51204	MTON_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
1/21/2025 19:24	46204	DANV_T2	111	121	10	1	0.98	-0.02	0	0	0	0	0	0	0	0
1/21/2025 19:25	42903	MIDD_T2	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
1/21/2025 19:25	42902	MIDD_T2	30	30	0	2.24	1.66	-0.58	-0.26	-0.24	0	0	0	0	0	0
1/21/2025 19:25	46506	LOHA_T1	1	3	2	1.4	0.1	-1.3	0	0	0	0	0	0	0	0
1/21/2025 19:25	46501	LOHA_T1	20	32	12	1	0.88	-0.12	0	0	0	0	0	0	0	0
1/21/2025 19:25	46504	LOHA_T1	17	25	8	0.89	0.94	0.05	0	0	0	0	0	0	0	0
1/21/2025 19:25	46502	LOHA_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/21/2025 19:25	46505	LOHA_T1	0	0	0	0	0	0	-0.26	-0.24	1	1	0	600	600	0
1/21/2025 19:26	44905	SCOT_T1	55	69	14	1.04	1.3	0.26	0	0	0	0	0	0	0	0
1/21/2025 19:26	53501	EVIL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/21/2025 19:26	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/21/2025 19:26	52502	PROG_T2	0	0	0	0	0	0	-0.2	-0.22	2	2	0	1800	1800	0
1/21/2025 19:26	53502	EVIL_T2	13	13	0	3.16	1.53	-1.63	0	0	0	0	0	0	0	0
1/21/2025 19:26	54601	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/21/2025 19:26	40101	HUNT_T2	992	1004	12	3.36	3.36	0	-1.36	-1.35	0	0	0	0	0	0
1/21/2025 19:27	55101	WERT_T1	0	0	0	0	0	0	-1.61	-1.6	2	2	0	1500	1500	0
1/21/2025 19:27	43304	WATS_T2	25	52	27	0.66	0.96	0.3	-0.87	-0.88	1	1	0	600	600	0
1/21/2025 19:27	48902	FOSP_T2	74	165	91	0.24	0.29	0.05	0	0	0	0	0	0	0	0
1/21/2025 19:27	41801	GOCI_T2	3	3	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
1/21/2025 19:27	48901	FOSP_T2	13	7	-6	1.16	0.51	-0.65	0	0	0	0	0	0	0	0
1/21/2025 19:28	56501	ROCK_T2	9	14	5	0.59	0.46	-0.13	-1.33	-1.35	0	0	0	0	0	0
1/21/2025 19:28	54503	ENOL_T2	1	2	1	0.1	0.7	0.6	-0.08	-0.15	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/21/2025 19:28	56504	ROCK_T2	5	2	-3	0.34	0	-0.34	0	0	0	0	0	0	0	0
1/21/2025 19:28	44201	POIN_T1	29	45	16	0.14	0.17	0.03	-2.11	-2.1	2	2	0	2100	2100	0
1/21/2025 19:29	55101	WERT_T1	0	0	0	0	0	0	-3.22	-3.2	4	4	0	3000	3000	0
1/21/2025 19:31	42302	MOWR_T2	48	69	21	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
1/21/2025 19:31	42301	MOWR_T2	1	3	2	0.4	0.3	-0.1	-0.27	-0.28	0	0	0	0	0	0
1/21/2025 20:10	22805	HAUT_T2	704	646	-58	1.62	1.48	-0.14	0	0	0	0	0	0	0	0
1/21/2025 20:10	22803	HAUT_T2	185	170	-15	1.59	1.57	-0.02	0	0	0	0	0	0	0	0
1/21/2025 21:43	52402	GRPA_T2	178	162	-16	1.13	1.04	-0.09	0	0	0	0	0	0	0	0
1/21/2025 21:43	52403	GRPA_T2	103	28	-75	0.9	0.73	-0.17	0	0	0	0	0	0	0	0
1/21/2025 21:43	52404	GRPA_T2	19	6	-13	0.55	0.9	0.35	0	0	0	0	0	0	0	0
1/21/2025 21:43	52401	GRPA_T2	18	0	-18	0.41	0	-0.41	-0.33	-0.19	0	0	0	0	0	0
1/22/2025 2:07	28403	HART_T2	7	46	39	0.44	0.8	0.36	-0.52	-0.54	1	1	0	900	900	0
1/22/2025 8:07	27503	WEIS_T2	4	23	19	1.85	0.86	-0.99	0	0	0	0	0	0	0	0
1/22/2025 8:07	27502	WEIS_T2	211	258	47	1.04	0.99	-0.05	-0.85	-0.77	0	0	0	0	0	0
1/22/2025 8:08	40201	BEGA_T2	124	138	14	0.99	0.74	-0.25	0	0	0	0	0	0	0	0
1/22/2025 8:14	41802	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 8:14	41801	GOCI_T2	17	23	6	0.76	1.17	0.41	0	0	0	0	0	0	0	0
1/22/2025 8:29	53502	EVIL_T2	38	33	-5	4.07	2.72	-1.35	0	0	0	0	0	0	0	0
1/22/2025 8:29	53501	EVIL_T2	149	119	-30	0.94	0.76	-0.18	0	0	0	0	0	0	0	0
1/22/2025 8:33	64303	LINC_T1	0	0	0	0	0	0	-0.77	-0.83	0	0	0	0	0	0
1/22/2025 8:33	64305	LINC_T1	2	2	0	1.5	0.6	-0.9	0	0	0	0	0	0	0	0
1/22/2025 8:34	13201	PALM_T1	10	16	6	0.3	0.21	-0.09	-0.28	-0.28	0	0	0	0	0	0
1/22/2025 8:36	44902	SCOT_T2	42	91	49	0.15	0.16	0.01	-0.77	-0.75	0	0	0	0	0	0
1/22/2025 8:39	43304	WATS_T2	44	49	5	1.01	0.73	-0.28	-1.08	-1.06	1	1	0	600	600	0
1/22/2025 8:39	43301	WATS_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/22/2025 8:41	45502	DERR_T2	149	126	-23	0.95	0.79	-0.16	0	0	0	0	0	0	0	0
1/22/2025 8:41	45501	DERR_T2	67	85	18	0.74	0.5	-0.24	1.44	1.5	4	4	0	3600	3600	0
1/22/2025 8:42	51905	COPA_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/22/2025 8:42	20603	GRWO_T2	64	69	5	1.92	1.87	-0.05	0	0	0	0	0	0	0	0
1/22/2025 8:42	51904	COPA_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
1/22/2025 8:42	51901	COPA_T1	0	0	0	0	0	0	-1.29	-1.29	1	1	0	1200	1200	0
1/22/2025 8:42	20601	GRWO_T2	259	270	11	1.44	1.04	-0.4	0.47	0.44	0	0	0	0	0	0
1/22/2025 8:42	51903	COPA_T1	11	5	-6	2.76	0.76	-2	0	0	0	0	0	0	0	0
1/22/2025 8:42	51906	COPA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/22/2025 8:42	20602	GRWO_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 8:44	40201	BEGA_T2	125	143	18	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
1/22/2025 8:46	40101	HUNT_T2	762	756	-6	1.97	1.92	-0.05	-0.41	-0.4	0	0	0	0	0	0
1/22/2025 8:48	44701	MUNC_T2	66	50	-16	0.72	0.58	-0.14	-1.03	-1.07	0	0	0	0	0	0
1/22/2025 8:48	42903	MIDD_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/22/2025 8:48	44703	MUNC_T2	38	34	-4	0.73	0.63	-0.1	0	0	0	0	0	0	0	0
1/22/2025 8:48	42902	MIDD_T2	31	34	3	3.18	2.9	-0.28	-0.73	-0.51	1	1	0	600	600	0
1/22/2025 8:50	42902	MIDD_T2	31	34	3	3.18	2.9	-0.28	0	0	0	0	0	0	0	0
1/22/2025 8:50	44703	MUNC_T2	38	34	-4	0.73	0.63	-0.1	0	0	0	0	0	0	0	0
1/22/2025 8:50	42903	MIDD_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/22/2025 8:50	41902	REED_T1	52	30	-22	0.94	0.99	0.05	-0.23	-0.26	1	1	0	900	900	0
1/22/2025 8:50	41903	REED_T1	66	42	-24	0.9	0.43	-0.47	0	0	0	0	0	0	0	0
1/22/2025 8:50	44701	MUNC_T2	66	50	-16	0.72	0.58	-0.14	0	0	0	0	0	0	0	0
1/22/2025 8:50	41901	REED_T1	9	7	-2	0.49	0.3	-0.19	0	0	0	0	0	0	0	0
1/22/2025 8:55	44301	BEAV_T2	2	6	4	0.45	1.1	0.65	0.11	-0.19	2	2	0	1500	1500	0
1/22/2025 8:56	46204	DANV_T2	140	143	3	3.67	2.93	-0.74	0	0	0	0	0	0	0	0
1/22/2025 8:56	46203	DANV_T2	159	177	18	1.06	0.85	-0.21	0	0	0	0	0	0	0	0
1/22/2025 8:56	46206	DANV_T2	135	139	4	0.96	0.84	-0.12	1.68	1.66	2	2	0	2100	2100	0
1/22/2025 8:56	44301	BEAV_T2	2	6	4	0.45	1.1	0.65	0.11	-0.19	2	2	0	1500	1500	0
1/22/2025 8:59	26702	HEML_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/22/2025 8:59	26704	HEML_T2	0	0	0	0	0	0	-1.54	-1.57	1	1	0	1200	1200	0
1/22/2025 9:00	40504	CRES_T1	12	6	-6	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
1/22/2025 9:00	67502	WEWI_T2	5	4	-1	0.88	0.4	-0.48	0	0	0	0	0	0	0	0
1/22/2025 9:00	67503	WEWI_T2	4	0	-4	0.4	0	-0.4	0.12	0.02	0	0	0	0	0	0
1/22/2025 9:00	40503	CRES_T1	23	13	-10	0.57	0.28	-0.29	0	0	0	0	0	0	0	0
1/22/2025 9:00	40505	CRES_T1	1	1	0	0.4	0.4	0	0.71	0.65	0	0	0	0	0	0
1/22/2025 9:04	43202	MVIL_T2	5	8	3	0.86	1	0.14	0	0	0	0	0	0	0	0
1/22/2025 9:04	43201	MVIL_T2	22	15	-7	0.58	0.5	-0.08	-0.16	-0.15	0	0	0	0	0	0
1/22/2025 9:07	44901	SCOT_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/22/2025 9:07	44902	SCOT_T2	88	152	64	0.15	0.2	0.05	-0.82	-0.8	0	0	0	0	0	0
1/22/2025 9:09	60701	BREC_T1	170	155	-15	4.82	2.74	-2.08	-0.45	-0.54	2	2	0	1200	1200	0
1/22/2025 9:11	40201	BEGA_T2	95	73	-22	0.6	0.64	0.04	0	0	0	0	0	0	0	0
1/22/2025 9:14	20601	GRWO_T2	245	213	-32	1.03	1.06	0.03	0.43	0.4	0	0	0	0	0	0
1/22/2025 9:14	17805	GILB_T2	389	341	-48	1.4	1.25	-0.15	0.59	0.55	0	0	0	0	0	0
1/22/2025 9:14	17803	GILB_T2	189	186	-3	1.56	1.02	-0.54	0	0	0	0	0	0	0	0
1/22/2025 9:14	20603	GRWO_T2	68	75	7	1.97	2.06	0.09	0	0	0	0	0	0	0	0
1/22/2025 9:14	17804	GILB_T2	3	3	0	1.33	1.43	0.1	0	0	0	0	0	0	0	0
1/22/2025 9:15	26704	HEML_T2	0	0	0	0	0	0	-1.57	-1.58	1	1	0	1200	1200	0
1/22/2025 9:15	46501	LOHA_T1	6	10	4	0.9	1	0.1	0	0	0	0	0	0	0	0
1/22/2025 9:15	46506	LOHA_T1	5	6	1	0.72	0.82	0.1	0.19	0.15	0	0	0	0	0	0
1/22/2025 9:16	41801	GOCI_T2	17	9	-8	1.11	0.68	-0.43	0	0	0	0	0	0	0	0
1/22/2025 9:16	53502	EVIL_T2	30	19	-11	2.61	3.18	0.57	0	0	0	0	0	0	0	0
1/22/2025 9:16	53501	EVIL_T2	7	5	-2	1.19	1.04	-0.15	0	0	0	0	0	0	0	0
1/22/2025 9:17	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/22/2025 9:17	28403	HART_T2	33	25	-8	0.42	0.46	0.04	0.65	0.61	0	0	0	0	0	0
1/22/2025 9:17	42902	MIDD_T2	32	32	0	2.81	0.59	-2.22	-0.54	-0.57	1	1	0	600	600	0
1/22/2025 9:17	46506	LOHA_T1	5	6	1	0.72	0.82	0.1	0.19	0.15	0	0	0	0	0	0
1/22/2025 9:17	13503	MCMI_T2	19	4	-15	0.48	0.15	-0.33	-0.1	-0.17	0	0	0	0	0	0
1/22/2025 9:17	46501	LOHA_T1	6	10	4	0.9	1	0.1	0	0	0	0	0	0	0	0
1/22/2025 9:19	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/22/2025 9:19	42902	MIDD_T2	32	32	0	2.81	0.59	-2.22	-0.54	-0.57	1	1	0	600	600	0
1/22/2025 9:21	41901	REED_T1	7	1	-6	0.21	0	-0.21	0	0	0	0	0	0	0	0
1/22/2025 9:21	41903	REED_T1	35	46	11	0.46	0.35	-0.11	0	0	0	0	0	0	0	0
1/22/2025 9:21	41902	REED_T1	18	28	10	0.95	0.76	-0.19	-0.28	-0.13	1	1	0	900	900	0
1/22/2025 9:22	55101	WERT_T1	0	5	5	0	0.17	0.17	-1.14	-1.09	2	2	0	1500	1500	0
1/22/2025 9:24	41602	CLEV_T1	78	29	-49	0.96	0.74	-0.22	0	0	1	1	0	600	600	0
1/22/2025 9:28	44301	BEAV_T2	6	3	-3	0.68	1	0.32	0	0	0	0	0	0	0	0
1/22/2025 9:28	41801	GOCI_T2	17	9	-8	1.11	0.68	-0.43	0	0	0	0	0	0	0	0
1/22/2025 9:29	45501	DERR_T2	51	83	32	0.58	0.54	-0.04	0.72	0.69	2	2	0	1800	1800	0
1/22/2025 9:29	45502	DERR_T2	62	33	-29	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
1/22/2025 9:30	46506	LOHA_T1	5	6	1	0.72	0.94	0.22	0	0	0	0	0	0	0	0
1/22/2025 9:30	46501	LOHA_T1	10	11	1	0.96	1.12	0.16	0	0	0	0	0	0	0	0
1/22/2025 9:30	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
1/22/2025 9:30	63401	HONY_T1	0	0	0	0	0	0	-0.19	-0.08	1	1	0	600	600	0
1/22/2025 9:39	45501	DERR_T2	83	21	-62	1.04	0.7	-0.34	0.69	0.69	2	2	0	1800	1800	0
1/22/2025 9:39	45502	DERR_T2	30	27	-3	0.55	0.51	-0.04	0	0	0	0	0	0	0	0
1/22/2025 9:39	55101	WERT_T1	5	3	-2	0.16	0	-0.16	-1.09	-1.17	2	2	0	1500	1500	0
1/22/2025 9:43	52401	GRPA_T2	3	4	1	0.67	0	-0.67	0.44	-0.39	0	0	0	0	0	0
1/22/2025 9:43	52404	GRPA_T2	26	17	-9	0.66	0.7	0.04	0	0	0	0	0	0	0	0
1/22/2025 9:43	52402	GRPA_T2	228	231	3	1.64	1.27	-0.37	0	0	0	0	0	0	0	0
1/22/2025 9:43	52403	GRPA_T2	194	138	-56	1.27	0.72	-0.55	0	0	0	0	0	0	0	0
1/22/2025 9:44	60901	DONG_T2	5	5	0	0.56	0.25	-0.31	0	0	0	0	0	0	0	0
1/22/2025 9:44	60904	DONG_T2	10	8	-2	1.06	0.55	-0.51	0	0	0	0	0	0	0	0
1/22/2025 9:44	60902	DONG_T2	40	23	-17	0.54	0.65	0.11	0.28	0.27	0	0	0	0	0	0
1/22/2025 9:47	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 9:53	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 9:53	55101	WERT_T1	3	8	5	0.17	0	-0.17	-1.17	-1.21	2	2	0	1500	1500	0
1/22/2025 10:00	17802	GILB_T1	198	173	-25	2.22	0.53	-1.69	0.76	0.68	0	0	0	0	0	0
1/22/2025 10:01	42903	MIDD_T2	4	29	25	0.48	0.61	0.13	0	0	0	0	0	0	0	0
1/22/2025 10:01	13503	MCMI_T2	5	1	-4	0.4	0	-0.4	-0.15	-0.21	0	0	0	0	0	0
1/22/2025 10:08	60701	BREC_T1	124	44	-80	1.37	1.05	-0.32	-0.6	-0.67	2	2	0	1200	1200	0
1/22/2025 10:10	55105	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 10:10	55101	WERT_T1	0	8	8	0	0.18	0.18	-1.21	-1.27	2	2	0	1500	1500	0
1/22/2025 10:12	60701	BREC_T1	124	44	-80	1.37	1.05	-0.32	-0.6	-0.67	2	2	0	1200	1200	0
1/22/2025 10:20	52502	PROG_T2	0	0	0	0	0	0	-0.17	-0.16	1	1	0	900	900	0
1/22/2025 10:21	52502	PROG_T2	0	0	0	0	0	0	-0.16	-0.18	1	1	0	900	900	0
1/22/2025 10:27	45501	DERR_T2	25	14	-11	0.55	1.2	0.65	0.69	0.7	2	2	0	1800	1800	0
1/22/2025 10:27	45502	DERR_T2	9	10	1	0.63	0.46	-0.17	0	0	0	0	0	0	0	0
1/22/2025 10:33	40602	PIGR_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
1/22/2025 10:33	40603	PIGR_T1	33	11	-22	0.45	0.53	0.08	0	0	0	0	0	0	0	0
1/22/2025 10:33	40601	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/22/2025 10:35	56501	ROCK_T2	121	226	105	0.2	0.34	0.14	-2.13	-2.12	0	0	0	0	0	0
1/22/2025 10:35	56504	ROCK_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/22/2025 10:36	56501	ROCK_T2	121	226	105	0.2	0.34	0.14	-2.12	-2.18	0	0	0	0	0	0
1/22/2025 10:36	56504	ROCK_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/22/2025 10:39	46204	DANV_T2	123	124	1	1.35	0.99	-0.36	0	0	0	0	0	0	0	0
1/22/2025 10:39	46203	DANV_T2	16	10	-6	0.76	0.7	-0.06	0	0	0	0	0	0	0	0
1/22/2025 10:39	46206	DANV_T2	25	23	-2	0.5	0.44	-0.06	4.02	3.96	4	4	0	4200	4200	0
1/22/2025 10:40	46206	DANV_T2	25	23	-2	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
1/22/2025 10:40	46203	DANV_T2	16	10	-6	0.76	0.7	-0.06	-0.89	-0.87	0	0	0	0	0	0
1/22/2025 10:40	64904	MILL_T1	0	0	0	0	0	0	0.12	0.07	0	0	0	0	0	0
1/22/2025 10:40	46204	DANV_T2	123	124	1	1.35	0.99	-0.36	0	0	0	0	0	0	0	0
1/22/2025 10:41	46203	DANV_T2	16	10	-6	0.76	0.7	-0.06	0	0	0	0	0	0	0	0
1/22/2025 10:41	46206	DANV_T2	25	23	-2	0.5	0.44	-0.06	4.02	3.96	4	4	0	4200	4200	0
1/22/2025 10:41	46204	DANV_T2	123	124	1	1.35	0.99	-0.36	0	0	0	0	0	0	0	0
1/22/2025 10:42	54503	ENOL_T2	1	4	3	0.2	1.25	1.05	-0.25	-0.27	1	1	0	600	600	0
1/22/2025 10:42	10805	CHHI_T2	16	7	-9	2.54	3.4	0.86	-0.53	-0.58	2	2	0	1800	1800	0
1/22/2025 10:42	54505	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 10:47	13503	MCMI_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
1/22/2025 10:56	10801	CHHI_T1	12	10	-2	0.53	0.53	0	-0.94	-1	2	2	0	1500	1500	0
1/22/2025 11:06	55002	NEWP_T1	4	6	2	0.48	0.68	0.2	0	0	0	0	0	0	0	0
1/22/2025 11:06	55001	NEWP_T1	0	1	1	0	0	0	-0.47	-0.48	1	1	0	600	600	0
1/22/2025 11:07	55002	NEWP_T1	4	6	2	0.48	0.68	0.2	0	0	0	0	0	0	0	0
1/22/2025 11:07	55001	NEWP_T1	0	1	1	0	0	0	-0.47	-0.48	1	1	0	600	600	0
1/22/2025 11:08	43304	WATS_T2	2	11	9	0.2	0.3	0.1	-0.67	-0.73	0	0	0	0	0	0
1/22/2025 11:13	61304	EARL_T1	2	4	2	0.1	0.1	0	0	0	0	0	0	0	0	0
1/22/2025 11:13	61305	EARL_T1	0	0	0	0	0	0	0.7	0.6	1	1	0	900	900	0
1/22/2025 11:15	42902	MIDD_T2	0	0	0	0	0	0	-0.65	-0.71	1	1	0	600	600	0
1/22/2025 11:15	42903	MIDD_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
1/22/2025 11:17	55001	NEWP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 11:17	55002	NEWP_T1	5	6	1	0.62	0.82	0.2	-0.1	-0.1	0	0	0	0	0	0
1/22/2025 11:19	44902	SCOT_T2	57	245	188	0.14	0.3	0.16	0	0	0	0	0	0	0	0
1/22/2025 11:19	44901	SCOT_T2	0	1	1	0	0.1	0.1	0.27	0.24	0	0	0	0	0	0
1/22/2025 11:21	67001	STHI_T2	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
1/22/2025 11:21	43304	WATS_T2	9	3	-6	0.59	0	-0.59	-0.67	-0.73	0	0	0	0	0	0
1/22/2025 11:21	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 11:22	67001	STHI_T2	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
1/22/2025 11:22	44905	SCOT_T1	12	9	-3	0.43	0.43	0	0	0	0	0	0	0	0	0
1/22/2025 11:22	67002	STHI_T2	0	0	0	0	0	0	0.73	0.71	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/22/2025 11:22	44904	SCOT_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/22/2025 11:23	42202	SHEN_T2	6	7	1	1.15	0.38	-0.77	0	0	0	0	0	0	0	0
1/22/2025 11:23	42201	SHEN_T2	1	2	1	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
1/22/2025 11:23	42203	SHEN_T2	4	5	1	0.83	0.9	0.07	0	0	0	0	0	0	0	0
1/22/2025 11:33	42902	MIDD_T2	0	0	0	0	0	0	-0.71	-0.68	1	1	0	600	600	0
1/22/2025 11:33	42903	MIDD_T2	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
1/22/2025 11:36	13704	SCHN_T2	9	2	-7	0.11	0.4	0.29	-0.6	-0.59	0	0	0	0	0	0
1/22/2025 11:42	63302	GREE_T1	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
1/22/2025 11:42	63305	GREE_T1	1	3	2	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
1/22/2025 11:46	51204	MTON_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
1/22/2025 11:48	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.16	0	0	0	0	0	0
1/22/2025 11:48	60501	NMAN_T2	50	69	19	0.27	0.32	0.05	0	0	0	0	0	0	0	0
1/22/2025 11:49	51204	MTON_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
1/22/2025 11:50	44902	SCOT_T2	245	197	-48	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
1/22/2025 11:50	44901	SCOT_T2	1	0	-1	0.1	0	-0.1	0.36	0.5	0	0	0	0	0	0
1/22/2025 11:51	49803	UNIV_T1	3	12	9	2.5	6.4	3.9	0	0	0	0	0	0	0	0
1/22/2025 11:51	49804	UNIV_T1	3	2	-1	1	0	-1	0.88	0.77	0	0	0	0	0	0
1/22/2025 11:54	46204	DANV_T2	99	47	-52	0.67	0.41	-0.26	0	0	0	0	0	0	0	0
1/22/2025 11:54	46206	DANV_T2	3	6	3	0.6	0.1	-0.5	1.84	1.83	2	2	0	2100	2100	0
1/22/2025 11:54	46203	DANV_T2	4	11	7	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
1/22/2025 12:09	44905	SCOT_T1	2	11	9	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
1/22/2025 12:09	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 12:10	10801	CHHI_T1	3	1	-2	0.93	1.7	0.77	-1.14	-1.21	2	2	0	1500	1500	0
1/22/2025 12:14	16103	BING_T2	3	3	0	1.4	0.4	-1	0	0	0	0	0	0	0	0
1/22/2025 12:14	16102	BING_T2	3	2	-1	0.43	0.6	0.17	0	0	0	0	0	0	0	0
1/22/2025 12:14	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 12:16	46506	LOHA_T1	5	5	0	0.72	1.6	0.88	0	0	0	0	0	0	0	0
1/22/2025 12:16	63401	HONY_T1	0	0	0	0	0	0.03	0	1	1	1	0	600	600	0
1/22/2025 12:16	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
1/22/2025 12:16	46501	LOHA_T1	7	5	-2	0.73	1.8	1.07	0	0	0	0	0	0	0	0
1/22/2025 12:24	59201	THOM_T1	22	20	-2	0.78	0.63	-0.15	0	0	0	0	0	0	0	0
1/22/2025 12:24	59202	THOM_T1	208	88	-120	0.34	0.31	-0.03	0	0	0	0	0	0	0	0
1/22/2025 12:31	52401	GRPA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/22/2025 12:31	52402	GRPA_T2	79	69	-10	0.99	0.85	-0.14	0	0	0	0	0	0	0	0
1/22/2025 12:31	52403	GRPA_T2	16	8	-8	0.75	0.72	-0.03	0	0	0	0	0	0	0	0
1/22/2025 12:31	52404	GRPA_T2	1	2	1	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
1/22/2025 12:46	42301	MOWR_T2	1	2	1	0.2	0.2	0	-0.27	-0.27	0	0	0	0	0	0
1/22/2025 12:46	42302	MOWR_T2	31	34	3	0.35	0.4	0.05	0	0	0	0	0	0	0	0
1/22/2025 12:52	43301	WATS_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/22/2025 12:52	43304	WATS_T2	0	0	0	0	0	0	-0.84	-0.73	0	0	0	0	0	0
1/22/2025 12:53	67001	STHI_T2	2	4	2	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
1/22/2025 12:53	67002	STHI_T2	6	17	11	0.1	0.12	0.02	0.75	0.69	0	0	0	0	0	0
1/22/2025 12:54	43304	WATS_T2	0	0	0	0	0	0	-0.84	-0.73	0	0	0	0	0	0
1/22/2025 12:54	43301	WATS_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/22/2025 12:56	12401	MILF_T1	0	1	1	0	0	0	-0.13	-0.14	0	0	0	0	0	0
1/22/2025 12:56	43301	WATS_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/22/2025 12:56	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 13:04	44601	SALE_T2	2	4	2	1.75	1.4	-0.35	0.23	0.79	0	1	1	0	600	600
1/22/2025 13:09	44501	HAMI_T2	1	8	7	0.4	0.6	0.2	0	0	0	0	0	0	0	0
1/22/2025 13:09	44502	HAMI_T2	2	2	0	1.55	2.6	1.05	0	0	0	0	0	0	0	0
1/22/2025 13:09	44503	HAMI_T2	3	5	2	0.37	1.16	0.79	0	0	0	0	0	0	0	0
1/22/2025 13:09	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 13:13	46203	DANV_T2	9	9	0	0.66	0.58	-0.08	0	0	0	0	0	0	0	0
1/22/2025 13:13	46204	DANV_T2	25	14	-11	0.37	0.54	0.17	0	0	0	0	0	0	0	0
1/22/2025 13:13	46206	DANV_T2	0	2	2	0	0.2	0.2	1.88	1.93	2	2	0	2100	2100	0
1/22/2025 13:14	17401	FOHI_T1	2	1	-1	1.5	0	-1.5	-0.9	-0.93	0	0	0	0	0	0
1/22/2025 13:24	43304	WATS_T2	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
1/22/2025 13:24	43301	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/22/2025 13:26	45302	WBER_T2	0	0	0	0	0	0	0.88	1	0	0	0	0	0	0
1/22/2025 13:26	45303	WBER_T2	2	2	0	4.85	8.9	4.05	0	0	0	0	0	0	0	0
1/22/2025 13:29	46204	DANV_T2	11	8	-3	0.49	0.7	0.21	0	0	0	0	0	0	0	0
1/22/2025 13:29	46203	DANV_T2	9	9	0	0.56	0.58	0.02	0	0	0	0	0	0	0	0
1/22/2025 13:29	46206	DANV_T2	2	1	-1	0.15	0	-0.15	1.93	1	2	2	0	2100	2100	0
1/22/2025 13:30	43304	WATS_T2	1	1	0	1.2	0.8	-0.4	-0.8	-0.82	0	0	0	0	0	0
1/22/2025 13:30	43301	WATS_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/22/2025 13:31	42903	MIDD_T2	2	2	0	0.95	1.25	0.3	0.54	0.5	1	1	0	1200	1200	0
1/22/2025 13:31	42902	MIDD_T2	0	1	1	0	0.3	0.3	-0.09	-0.04	0	0	0	0	0	0
1/22/2025 13:34	42902	MIDD_T2	0	1	1	0	0.3	0.3	-0.18	-0.08	0	0	0	0	0	0
1/22/2025 13:34	42903	MIDD_T2	2	2	0	0.95	1.25	0.3	0	0	0	0	0	0	0	0
1/22/2025 13:35	65205	PRIN_T1	1	2	1	0.3	0.6	0.3	0	0	0	0	0	0	0	0
1/22/2025 13:46	43304	WATS_T2	1	2	1	1.8	0	-1.8	-0.82	-0.33	0	0	0	0	0	0
1/22/2025 13:46	43301	WATS_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/22/2025 13:50	55001	NEWP_T1	5	0	-5	0.34	0	-0.34	0	0	0	0	0	0	0	0
1/22/2025 13:50	55002	NEWP_T1	6	5	-1	0.88	0.84	-0.04	-0.11	-0.1	0	0	0	0	0	0
1/22/2025 13:52	64101	REFR_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
1/22/2025 13:54	43304	WATS_T2	1	2	1	1.8	0	-1.8	-0.33	-0.2	0	0	0	0	0	0
1/22/2025 13:54	43301	WATS_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/22/2025 13:55	43304	WATS_T2	1	2	1	1.8	0	-1.8	-0.33	-0.2	0	0	0	0	0	0
1/22/2025 13:55	43301	WATS_T2	1	1	0	0.1	0.3	0.2	0.31	0.28	0	0	0	0	0	0
1/22/2025 13:56	43301	WATS_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/22/2025 13:56	43304	WATS_T2	1	2	1	1.8	0	-1.8	-0.66	-0.4	0	0	0	0	0	0
1/22/2025 13:57	43304	WATS_T2	1	2	1	1.8	0	-1.8	-0.66	-0.4	0	0	0	0	0	0
1/22/2025 13:57	43301	WATS_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/22/2025 14:06	24204	PROV_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
1/22/2025 14:06	24201	PROV_T3	5	5	0	3.62	3.64	0.02	-1.28	-1.27	1	1	0	1200	1200	0
1/22/2025 14:16	42902	MIDD_T2	2	10	8	0.15	0.2	0.05	-0.12	0.06	0	0	0	0	0	0
1/22/2025 14:16	42903	MIDD_T2	2	2	0	1.45	1.7	0.25	0	0	0	0	0	0	0	0
1/22/2025 14:16	42901	MIDD_T2	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
1/22/2025 14:19	42902	MIDD_T2	2	10	8	0.15	0.2	0.05	-0.06	0.03	0	0	0	0	0	0
1/22/2025 14:19	42903	MIDD_T2	2	2	0	1.45	1.7	0.25	0	0	0	0	0	0	0	0
1/22/2025 14:19	42901	MIDD_T2	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
1/22/2025 14:20	66502	SMAN_T2	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
1/22/2025 14:21	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 14:21	66504	SMAN_T2	0	0	0	0	0	0	-1.41	-1.4	1	1	0	1200	1200	0
1/22/2025 14:22	66504	SMAN_T2	0	0	0	0	0	0	-1.4	-1.35	1	1	0	1200	1200	0
1/22/2025 14:22	66502	SMAN_T2	0	0	0	0	0	0	0.46	0.78	0	0	0	0	0	0
1/22/2025 14:22	66503	SMAN_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
1/22/2025 14:27	44905	SCOT_T1	11	18	7	0.43	0.43	0	0	0	0	0	0	0	0	0
1/22/2025 14:27	44903	SCOT_T1	0	0	0	0	0	0	-0.68	-0.71	0	0	0	0	0	0
1/22/2025 14:36	44202	POIN_T2	0	0	0	0	0	0	-0.37	-0.32	1	1	0	1200	1200	0
1/22/2025 14:45	54506	ENOL_T2	0	0	0	0	0	0	0.42	0.36	1	0	-1	600	0	-600
1/22/2025 14:45	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
1/22/2025 15:04	58102	NEKI_T1	2	1	-1	1	1.9	0.9	-0.73	-0.72	0	0	0	0	0	0
1/22/2025 15:04	10801	CHHI_T1	1	1	0	0.6	0.5	-0.1	-1.39	-1.39	2	2	0	1500	1500	0
1/22/2025 15:15	61304	EARL_T1	1	4	3	0.1	0.1	0	-0.51	-0.45	1	1	0	600	600	0
1/22/2025 15:31	63802	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 15:31	63804	HEMP_T1	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
1/22/2025 15:32	58705	ROSE_T2	5	5	0	2.24	2.22	-0.02	0	0	0	0	0	0	0	0
1/22/2025 15:32	58702	ROSE_T2	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
1/22/2025 15:32	58706	ROSE_T2	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
1/22/2025 15:54	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 15:54	43304	WATS_T2	5	34	29	0.5	0.61	0.11	-0.21	-0.18	0	0	0	0	0	0
1/22/2025 15:55	43304	WATS_T2	5	34	29	0.5	0.61	0.11	-0.21	-0.18	0	0	0	0	0	0
1/22/2025 15:56	43304	WATS_T2	5	34	29	0.5	0.61	0.11	-0.21	-0.18	0	0	0	0	0	0
1/22/2025 16:03	64305	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 16:46	51802	EBEN_T2	0	2	2	0	0	0	-0.27	-0.22	1	1	0	900	900	0
1/22/2025 18:56	45302	WBER_T2	16	10	-6	0.53	0.35	-0.18	0.81	0.8	0	0	0	0	0	0
1/22/2025 18:56	45303	WBER_T2	1	4	3	9.1	9.1	0	0	0	0	0	0	0	0	0
1/22/2025 18:59	44203	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 18:59	44202	POIN_T2	1	1	0	0.3	0.6	0.3	-0.34	-0.52	1	1	0	1200	1200	0
1/22/2025 19:03	26704	HEML_T2	0	0	0	0	0	0	-1.6	-1.61	1	1	0	1200	1200	0
1/22/2025 19:04	24204	PROV_T3	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
1/22/2025 19:04	24201	PROV_T3	6	6	0	4.2	4.32	0.12	-1.15	-1.18	1	1	0	1200	1200	0
1/22/2025 19:04	23401	HONE_T2	159	262	103	0.56	0.52	-0.04	0.35	0.27	0	0	0	0	0	0
1/22/2025 19:04	23402	HONE_T2	9	2	-7	0.72	0.6	-0.12	0	0	0	0	0	0	0	0
1/22/2025 19:06	67002	STHI_T2	0	0	0	0	0	0	0.66	0.64	0	0	0	0	0	0
1/22/2025 19:06	10801	CHHI_T1	48	37	-11	0.59	0.6	0.01	-1.1	-1.12	2	2	0	1500	1500	0
1/22/2025 19:06	67001	STHI_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/22/2025 19:06	10805	CHHI_T2	11	15	4	2.43	2.95	0.52	-0.46	-0.43	1	1	0	600	600	0
1/22/2025 19:07	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
1/22/2025 19:07	46506	LOHA_T1	4	9	5	1.18	0.4	-0.78	0	0	0	0	0	0	0	0
1/22/2025 19:07	46502	LOHA_T1	2	2	0	0.7	2.2	1.5	0	0	0	0	0	0	0	0
1/22/2025 19:07	46504	LOHA_T1	25	25	0	1.8	0.75	-1.05	0	0	0	0	0	0	0	0
1/22/2025 19:07	46501	LOHA_T1	47	51	4	0.7	0.69	-0.01	0	0	0	0	0	0	0	0
1/22/2025 19:07	13503	MCMI_T2	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
1/22/2025 19:08	67001	STHI_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/22/2025 19:08	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 19:09	40201	BEGA_T2	126	73	-53	0.85	0.38	-0.47	0	0	0	0	0	0	0	0
1/22/2025 19:10	10801	CHHI_T1	48	37	-11	0.59	0.6	0.01	-2.2	-2.24	4	4	0	3000	3000	0
1/22/2025 19:10	16101	BING_T2	0	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0
1/22/2025 19:10	42201	SHEN_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/22/2025 19:10	16103	BING_T2	7	8	1	1.69	2.15	0.46	0	0	0	0	0	0	0	0
1/22/2025 19:10	42202	SHEN_T2	7	7	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
1/22/2025 19:10	42203	SHEN_T2	4	2	-2	0.65	0.35	-0.3	0	0	0	0	0	0	0	0
1/22/2025 19:11	44901	SCOT_T2	2	3	1	0.2	0.27	0.07	0.04	0.1	0	0	0	0	0	0
1/22/2025 19:11	43304	WATS_T2	27	34	7	0.76	0.53	-0.23	-0.68	-0.75	1	1	0	600	600	0
1/22/2025 19:11	17802	GILB_T1	177	176	-1	1.73	0.83	-0.9	0.62	0.59	0	0	0	0	0	0
1/22/2025 19:11	45502	DERR_T2	6	15	9	0.43	0.65	0.22	0	0	0	0	0	0	0	0
1/22/2025 19:11	41902	REED_T1	179	143	-36	1.01	0.71	-0.3	0.35	0.31	1	1	0	900	900	0
1/22/2025 19:11	45501	DERR_T2	33	23	-10	0.61	0.81	0.2	1.04	1.12	4	4	0	3600	3600	0
1/22/2025 19:11	41901	REED_T1	4	11	7	0.33	0.43	0.1	0	0	0	0	0	0	0	0
1/22/2025 19:11	43301	WATS_T2	1	0	-1	0.4	0	-0.4	0.34	0.36	0	0	0	0	0	0
1/22/2025 19:11	44902	SCOT_T2	229	387	158	0.36	0.44	0.08	0	0	0	0	0	0	0	0
1/22/2025 19:12	41602	CLEV_T1	14	10	-4	0.4	0.1	-0.3	0	0	1	1	0	600	600	0
1/22/2025 19:12	44601	SALE_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
1/22/2025 19:12	17401	FOHI_T1	2	5	3	0.6	0	-0.6	-0.9	-0.91	0	0	0	0	0	0
1/22/2025 19:12	54502	ENOL_T2	3	3	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/22/2025 19:12	43304	WATS_T2	27	34	7	0.76	0.53	-0.23	-0.68	-0.75	1	1	0	600	600	0
1/22/2025 19:12	45501	DERR_T2	33	23	-10	0.61	0.81	0.2	0.52	0.56	2	2	0	1800	1800	0
1/22/2025 19:12	54503	ENOL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/22/2025 19:12	45502	DERR_T2	6	15	9	0.43	0.65	0.22	0	0	0	0	0	0	0	0
1/22/2025 19:12	60701	BREC_T1	8	10	2	0.88	1.72	0.84	-0.74	-0.73	2	2	0	1200	1200	0
1/22/2025 19:12	54506	ENOL_T2	0	0	0	0	0	0	0.46	0.56	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/22/2025 19:12	43301	WATS_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/22/2025 19:13	43201	MVIL_T2	3	3	0	0.7	0.53	-0.17	-0.24	-0.22	0	0	0	0	0	0
1/22/2025 19:13	17803	GILB_T2	29	93	64	0.81	0.66	-0.15	0	0	0	0	0	0	0	0
1/22/2025 19:13	43202	MVIL_T2	1	1	0	0.9	1.7	0.8	0	0	0	0	0	0	0	0
1/22/2025 19:13	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 19:13	17804	GILB_T2	4	3	-1	0.48	0.7	0.22	0	0	0	0	0	0	0	0
1/22/2025 19:13	17805	GILB_T2	14	105	91	0.86	0.88	0.02	0.38	0.35	0	0	0	0	0	0
1/22/2025 19:13	13503	MCMI_T2	0	0	0	0	0	0	-0.52	-0.48	0	0	0	0	0	0
1/22/2025 19:13	63401	HONY_T1	0	0	0	0	0	0	-0.16	-0.14	1	1	0	600	600	0
1/22/2025 19:14	60701	BREC_T1	8	10	2	0.88	1.72	0.84	-0.74	-0.73	2	2	0	1200	1200	0
1/22/2025 19:14	60902	DONG_T2	0	2	2	0	0.2	0.2	0.58	0.58	0	0	0	0	0	0
1/22/2025 19:14	63302	GREE_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
1/22/2025 19:14	60901	DONG_T2	7	7	0	1.14	1.84	0.7	0	0	0	0	0	0	0	0
1/22/2025 19:14	59201	THOM_T1	22	23	1	0.78	0.85	0.07	0	0	0	0	0	0	0	0
1/22/2025 19:14	59202	THOM_T1	124	183	59	0.37	0.39	0.02	0	0	0	0	0	0	0	0
1/22/2025 19:14	43304	WATS_T2	27	34	7	0.76	0.53	-0.23	-0.68	-0.75	1	1	0	600	600	0
1/22/2025 19:14	43301	WATS_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/22/2025 19:15	42901	MIDD_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/22/2025 19:15	42903	MIDD_T2	2	2	0	1.35	1.05	-0.3	0	0	0	0	0	0	0	0
1/22/2025 19:15	43304	WATS_T2	34	24	-10	0.94	0.42	-0.52	-0.68	-0.75	1	1	0	600	600	0
1/22/2025 19:15	52404	GRPA_T2	12	23	11	0.46	0.55	0.09	0	0	0	0	0	0	0	0
1/22/2025 19:15	67002	STHI_T2	0	0	0	0	0	0	0.64	0.7	0	0	0	0	0	0
1/22/2025 19:15	46206	DANV_T2	0	1	1	0	0	0	1.5	1.4	2	2	0	2100	2100	0
1/22/2025 19:15	52403	GRPA_T2	119	188	69	0.81	1	0.19	0	0	0	0	0	0	0	0
1/22/2025 19:15	52401	GRPA_T2	28	59	31	0.36	0.36	0	0	0	0	0	0	0	0	0
1/22/2025 19:15	52402	GRPA_T2	222	240	18	1.74	1.31	-0.43	0	0	0	0	0	0	0	0
1/22/2025 19:15	42902	MIDD_T2	35	29	-6	2.02	2.81	0.79	-0.72	-0.64	0	0	0	0	0	0
1/22/2025 19:15	67001	STHI_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/22/2025 19:15	46204	DANV_T2	6	17	11	0.37	0.24	-0.13	0	0	0	0	0	0	0	0
1/22/2025 19:15	46203	DANV_T2	58	39	-19	0.74	1.21	0.47	0	0	0	0	0	0	0	0
1/22/2025 19:16	43304	WATS_T2	34	24	-10	0.94	0.42	-0.52	-1.36	-1.5	2	2	0	1200	1200	0
1/22/2025 19:16	66503	SMAN_T2	0	0	0	0	0	0	0.48	0.5	0	0	0	0	0	0
1/22/2025 19:16	44901	SCOT_T2	2	15	13	0.15	0.18	0.03	0	0	0	0	0	0	0	0
1/22/2025 19:16	44902	SCOT_T2	276	488	212	0.35	0.56	0.21	-0.81	-0.8	0	0	0	0	0	0
1/22/2025 19:16	44502	HAMI_T2	1	2	1	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
1/22/2025 19:16	41801	GOCI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/22/2025 19:16	56501	ROCK_T2	7	12	5	0.37	0.31	-0.06	-2.06	-2.05	0	0	0	0	0	0
1/22/2025 19:16	56504	ROCK_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/22/2025 19:16	44501	HAMI_T2	5	0	-5	0.24	0	-0.24	0	0	0	0	0	0	0	0
1/22/2025 19:16	58102	NEKI_T1	1	1	0	1.5	1.4	-0.1	-0.71	-0.63	0	0	0	0	0	0
1/22/2025 19:16	44505	HAMI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/22/2025 19:17	42902	MIDD_T2	35	29	-6	2.02	2.81	0.79	-0.36	-0.32	0	0	0	0	0	0
1/22/2025 19:17	42903	MIDD_T2	2	2	0	1.35	1.05	-0.3	-0.09	0.13	0	0	0	0	0	0
1/22/2025 19:17	64101	REFR_T1	0	1	1	0	0	0	0.29	0.27	0	0	0	0	0	0
1/22/2025 19:17	43304	WATS_T2	34	24	-10	0.94	0.42	-0.52	-0.68	-0.75	1	1	0	600	600	0
1/22/2025 19:17	42901	MIDD_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/22/2025 19:17	52502	PROG_T2	0	0	0	0	0	0	-0.12	-0.15	1	1	0	900	900	0
1/22/2025 19:18	40601	PIGR_T1	0	7	7	0	0.14	0.14	0	0	0	0	0	0	0	0
1/22/2025 19:18	54503	ENOL_T2	1	1	0	0.2	0	-0.2	-0.23	-0.22	1	1	0	600	600	0
1/22/2025 19:18	54502	ENOL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
1/22/2025 19:18	43304	WATS_T2	34	24	-10	0.94	0.42	-0.52	-1.36	-1.5	2	2	0	1200	1200	0
1/22/2025 19:18	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
1/22/2025 19:18	63401	HONY_T1	0	0	0	0	0	0	-0.16	-0.14	1	1	0	600	600	0
1/22/2025 19:18	40602	PIGR_T1	1	2	1	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
1/22/2025 19:18	40603	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/22/2025 19:18	63804	HEMP_T1	3	9	6	2.37	6.5	4.13	0	0	0	0	0	0	0	0
1/22/2025 19:18	63802	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 19:19	41801	GOCI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/22/2025 19:19	44905	SCOT_T1	73	72	-1	1.84	1.71	-0.13	0	0	0	0	0	0	0	0
1/22/2025 19:19	46206	DANV_T2	0	1	1	0	0	0	3	2.8	4	4	0	4200	4200	0
1/22/2025 19:19	46503	LOHA_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 19:19	46501	LOHA_T1	47	47	0	0.69	0.85	0.16	0	0	0	0	0	0	0	0
1/22/2025 19:19	53501	EVIL_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 19:19	46203	DANV_T2	58	39	-19	0.74	1.21	0.47	0	0	0	0	0	0	0	0
1/22/2025 19:19	56501	ROCK_T2	7	12	5	0.37	0.31	-0.06	-2.06	-2.05	0	0	0	0	0	0
1/22/2025 19:19	60502	NMAN_T2	0	0	0	0	0	0	-0.01	-0.15	0	0	0	0	0	0
1/22/2025 19:19	46504	LOHA_T1	25	26	1	0.92	0.75	-0.17	0	0	0	0	0	0	0	0
1/22/2025 19:19	53502	EVIL_T2	12	13	1	0.54	1.55	1.01	0	0	0	0	0	0	0	0
1/22/2025 19:19	46502	LOHA_T1	2	2	0	2.6	0.8	-1.8	0	0	0	0	0	0	0	0
1/22/2025 19:19	60501	NMAN_T2	9	13	4	0.46	0.53	0.07	0	0	0	0	0	0	0	0
1/22/2025 19:19	46204	DANV_T2	6	17	11	0.37	0.24	-0.13	0	0	0	0	0	0	0	0
1/22/2025 19:19	56504	ROCK_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/22/2025 19:19	46506	LOHA_T1	3	14	11	1.23	0.17	-1.06	0.13	0.13	0	0	0	0	0	0
1/22/2025 19:19	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 19:19	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 19:20	43304	WATS_T2	34	24	-10	0.94	0.42	-0.52	-0.68	-0.75	1	1	0	600	600	0
1/22/2025 19:20	66504	SMAN_T2	0	0	0	0	0	0	-1.28	-1.26	1	1	0	1200	1200	0
1/22/2025 19:20	55001	NEWP_T1	0	2	2	0	0.55	0.55	-1.14	-1.1	1	1	0	600	600	0
1/22/2025 19:20	46501	LOHA_T1	47	47	0	0.69	0.85	0.16	0	0	0	0	0	0	0	0
1/22/2025 19:20	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 19:20	55002	NEWP_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
1/22/2025 19:20	46504	LOHA_T1	25	26	1	0.92	0.75	-0.17	0	0	0	0	0	0	0	0
1/22/2025 19:20	46203	DANV_T2	58	39	-19	0.74	1.21	0.47	-0.83	-0.85	0	0	0	0	0	0
1/22/2025 19:20	46204	DANV_T2	6	17	11	0.37	0.24	-0.13	0	0	0	0	0	0	0	0
1/22/2025 19:20	46502	LOHA_T1	2	2	0	2.6	0.8	-1.8	0	0	0	0	0	0	0	0
1/22/2025 19:20	44905	SCOT_T1	73	72	-1	1.84	1.71	-0.13	0	0	0	0	0	0	0	0
1/22/2025 19:20	46506	LOHA_T1	3	14	11	1.23	0.17	-1.06	0.13	0.13	0	0	0	0	0	0
1/22/2025 19:20	46503	LOHA_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 19:21	46206	DANV_T2	0	1	1	0	0	0	1.5	1.4	2	2	0	2100	2100	0
1/22/2025 19:21	66504	SMAN_T2	0	0	0	0	0	0	-1.28	-1.26	1	1	0	1200	1200	0
1/22/2025 19:21	46203	DANV_T2	58	39	-19	0.74	1.21	0.47	0	0	0	0	0	0	0	0
1/22/2025 19:21	42301	MOWR_T2	1	1	0	0.2	0.2	0	-0.25	-0.26	0	0	0	0	0	0
1/22/2025 19:21	42302	MOWR_T2	38	44	6	0.41	0.47	0.06	0	0	0	0	0	0	0	0
1/22/2025 19:21	46204	DANV_T2	6	17	11	0.37	0.24	-0.13	0	0	0	0	0	0	0	0
1/22/2025 19:21	43304	WATS_T2	34	24	-10	0.94	0.42	-0.52	-1.36	-1.5	2	2	0	1200	1200	0
1/22/2025 19:21	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
1/22/2025 19:22	49803	UNIV_T1	37	109	72	0.62	0.55	-0.07	0	0	0	0	0	0	0	0
1/22/2025 19:22	49804	UNIV_T1	1	0	-1	0.7	0	-0.7	0.87	0.8	0	0	0	0	0	0
1/22/2025 19:22	66502	SMAN_T2	0	0	0	0	0	0	-0.06	0.05	0	0	0	0	0	0
1/22/2025 19:23	20601	GRWO_T2	48	66	18	0.58	0.6	0.02	0.24	0.22	0	0	0	0	0	0
1/22/2025 19:23	42902	MIDD_T2	35	29	-6	2.02	2.81	0.79	0	0	0	0	0	0	0	0
1/22/2025 19:23	52502	PROG_T2	0	0	0	0	0	0	-0.15	-0.18	1	1	0	900	900	0
1/22/2025 19:23	64904	MILL_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
1/22/2025 19:23	20603	GRWO_T2	48	44	-4	2.36	2.25	-0.11	0	0	0	0	0	0	0	0
1/22/2025 19:23	42903	MIDD_T2	2	2	0	1.35	1.05	-0.3	0	0	0	0	0	0	0	0
1/22/2025 19:23	60701	BREC_T1	10	9	-1	1.7	2.08	0.38	-0.73	-0.73	2	2	0	1200	1200	0
1/22/2025 19:23	20602	GRWO_T2	9	13	4	1.08	0.83	-0.25	0	0	0	0	0	0	0	0
1/22/2025 19:23	42901	MIDD_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/22/2025 19:24	12401	MILF_T1	1	4	3	0.2	0	-0.2	-0.05	-0.05	0	0	0	0	0	0
1/22/2025 19:24	43304	WATS_T2	34	24	-10	0.94	0.42	-0.52	-0.75	-0.73	1	1	0	600	600	0
1/22/2025 19:24	12403	MILF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 19:24	13704	SCHN_T2	1	7	6	1.2	0.63	-0.57	-0.54	-0.58	0	0	0	0	0	0
1/22/2025 19:24	52401	GRPA_T2	28	59	31	0.36	0.36	0	-0.3	-0.31	0	0	0	0	0	0
1/22/2025 19:24	52404	GRPA_T2	12	23	11	0.46	0.55	0.09	0	0	0	0	0	0	0	0
1/22/2025 19:24	52402	GRPA_T2	222	240	18	1.74	1.31	-0.43	0	0	0	0	0	0	0	0
1/22/2025 19:24	52403	GRPA_T2	119	188	69	0.81	1	0.19	0	0	0	0	0	0	0	0
1/22/2025 19:25	43304	WATS_T2	34	24	-10	0.94	0.42	-0.52	-0.75	-0.73	1	1	0	600	600	0
1/22/2025 19:25	55001	NEWP_T1	0	2	2	0	0.55	0.55	-1.1	-1.14	1	1	0	600	600	0
1/22/2025 19:26	46504	LOHA_T1	25	26	1	0.92	0.75	-0.17	0	0	0	0	0	0	0	0
1/22/2025 19:26	65502	MOJO_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
1/22/2025 19:26	46501	LOHA_T1	47	47	0	0.69	0.85	0.16	0	0	0	0	0	0	0	0
1/22/2025 19:26	55101	WERT_T1	0	0	0	0	0	0	-3.15	-3.18	4	4	0	3000	3000	0
1/22/2025 19:26	55105	WERT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/22/2025 19:26	46503	LOHA_T1	0	3	3	0	0	0	-0.59	-0.58	0	0	0	0	0	0
1/22/2025 19:26	46502	LOHA_T1	2	2	0	2.6	0.8	-1.8	0	0	0	0	0	0	0	0
1/22/2025 19:26	44301	BEAV_T2	8	15	7	1.29	1.64	0.35	0	0	0	0	0	0	0	0
1/22/2025 19:26	51204	MTON_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
1/22/2025 19:26	46506	LOHA_T1	3	14	11	1.23	0.17	-1.06	0	0	0	0	0	0	0	0
1/22/2025 19:27	55101	WERT_T1	0	0	0	0	0	0	-3.15	-3.18	4	4	0	3000	3000	0
1/22/2025 19:27	55105	WERT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/22/2025 19:27	61304	EARL_T1	8	10	2	0.13	0.12	-0.01	-0.6	-0.58	1	1	0	600	600	0
1/22/2025 19:27	64305	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/22/2025 19:28	42903	MIDD_T2	2	2	0	1.35	1.05	-0.3	0	0	0	0	0	0	0	0
1/22/2025 19:28	42902	MIDD_T2	35	29	-6	2.02	2.81	0.79	-0.32	-0.33	0	0	0	0	0	0
1/22/2025 19:28	43304	WATS_T2	34	24	-10	0.94	0.42	-0.52	0	0	0	0	0	0	0	0
1/22/2025 19:28	51204	MTON_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
1/22/2025 19:28	42901	MIDD_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/22/2025 19:51	65202	PRIN_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/22/2025 19:51	65205	PRIN_T1	1	2	1	0.8	2	1.2	0	0	0	0	0	0	0	0
1/23/2025 0:31	44903	SCOT_T1	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
1/23/2025 0:31	44905	SCOT_T1	12	12	0	0.48	0.36	-0.12	0	0	0	0	0	0	0	0
1/23/2025 1:49	28403	HART_T2	0	2	2	0	0	0	0.31	0.33	0	0	0	0	0	0
1/23/2025 7:54	64305	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 8:10	64305	LINC_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 8:10	44302	BEAV_T2	5	5	0	1.44	0	-1.44	0	0	0	0	0	0	0	0
1/23/2025 8:10	44301	BEAV_T2	7	7	0	0.67	0.43	-0.24	0.62	0.65	1	1	0	600	600	0
1/23/2025 8:15	53801	MBRG_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/23/2025 8:15	53802	MBRG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 8:15	53803	MBRG_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/23/2025 8:20	13503	MCMI_T2	0	1	1	0	0	0	-0.21	-0.22	0	0	0	0	0	0
1/23/2025 8:23	55101	WERT_T1	1	0	-1	0.1	0	-0.1	-1.12	-1.14	2	2	0	1500	1500	0
1/23/2025 8:25	55101	WERT_T1	1	0	-1	0.1	0	-0.1	-1.12	-1.14	2	2	0	1500	1500	0
1/23/2025 8:26	45502	DERR_T2	74	61	-13	0.86	0.59	-0.27	0	0	0	0	0	0	0	0
1/23/2025 8:26	45501	DERR_T2	25	21	-4	0.58	0.41	-0.17	0.93	0.92	2	2	0	1800	1800	0
1/23/2025 8:27	53502	EVIL_T2	26	31	5	2.8	2.15	-0.65	0	0	0	0	0	0	0	0
1/23/2025 8:27	53501	EVIL_T2	10	12	2	0.72	0.56	-0.16	0	0	0	0	0	0	0	0
1/23/2025 8:29	45501	DERR_T2	25	21	-4	0.58	0.41	-0.17	0.93	0.92	2	2	0	1800	1800	0
1/23/2025 8:29	45502	DERR_T2	74	61	-13	0.86	0.59	-0.27	0	0	0	0	0	0	0	0
1/23/2025 8:31	26704	HEML_T2	0	0	0	0	0	0	-1.6	-1.59	1	1	0	1200	1200	0
1/23/2025 8:31	42902	MIDD_T2	7	3	-4	0.53	0	-0.53	-0.57	-0.6	1	1	0	600	600	0
1/23/2025 8:31	42903	MIDD_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
1/23/2025 8:32	20602	GRWO_T2	9	11	2	0.71	0.41	-0.3	0	0	0	0	0	0	0	0
1/23/2025 8:32	20603	GRWO_T2	41	61	20	1.78	1.25	-0.53	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/23/2025 8:32	20601	GRWO_T2	134	122	-12	1.13	0.77	-0.36	0.45	0.37	0	0	0	0	0	0
1/23/2025 8:41	27202	YATE_T2	0	0	0	0	0	0	-1.54	-1.52	1	1	0	900	900	0
1/23/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.66	0.62	0	0	0	0	0	0
1/23/2025 9:00	67502	WEWI_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/23/2025 9:00	46202	DANV_T2	122	119	-3	2.36	0.82	-1.54	0	0	0	0	0	0	0	0
1/23/2025 9:00	46206	DANV_T2	12	6	-6	0.36	0.35	-0.01	2.1	2.2	2	2	0	2100	2100	0
1/23/2025 9:00	40504	CRES_T1	5	5	0	0.34	0.2	-0.14	0	0	0	0	0	0	0	0
1/23/2025 9:00	13503	MCMI_T2	0	0	0	0	0	0	-0.69	-0.54	0	0	0	0	0	0
1/23/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
1/23/2025 9:00	46203	DANV_T2	11	13	2	0.92	0.5	-0.42	0	0	0	0	0	0	0	0
1/23/2025 9:00	40503	CRES_T1	5	2	-3	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
1/23/2025 9:06	12403	MILF_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/23/2025 9:06	12402	MILF_T1	2	1	-1	1.15	3.3	2.15	0	0	0	0	0	0	0	0
1/23/2025 9:06	12401	MILF_T1	1	3	2	7.8	0	-7.8	0	-0.02	0	0	0	0	0	0
1/23/2025 9:11	46203	DANV_T2	11	13	2	0.92	0.5	-0.42	0	0	0	0	0	0	0	0
1/23/2025 9:11	46204	DANV_T2	122	119	-3	2.36	0.82	-1.54	0	0	0	0	0	0	0	0
1/23/2025 9:11	46206	DANV_T2	12	6	-6	0.36	0.35	-0.01	2.2	2.08	2	2	0	2100	2100	0
1/23/2025 9:13	45502	DERR_T2	59	11	-48	0.63	0.38	-0.25	0	0	0	0	0	0	0	0
1/23/2025 9:13	26704	HEML_T2	0	0	0	0	0	0	-1.62	-1.6	1	1	0	1200	1200	0
1/23/2025 9:13	45501	DERR_T2	13	5	-8	0.62	0.5	-0.12	0.89	0.87	2	2	0	1800	1800	0
1/23/2025 9:14	20602	GRWO_T2	11	6	-5	0.64	0.5	-0.14	0	0	0	0	0	0	0	0
1/23/2025 9:14	52402	GRPA_T2	228	241	13	2	1.27	-0.73	0	0	0	0	0	0	0	0
1/23/2025 9:14	11103	EGYP_T1	4	8	4	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/23/2025 9:14	20601	GRWO_T2	120	126	6	0.91	0.89	-0.02	0.28	0.36	0	0	0	0	0	0
1/23/2025 9:14	11104	EGYP_T1	2	54	52	0.25	0.7	0.45	0	0	0	0	0	0	0	0
1/23/2025 9:14	46204	DANV_T2	122	119	-3	2.36	0.82	-1.54	0	0	0	0	0	0	0	0
1/23/2025 9:14	46203	DANV_T2	11	13	2	0.92	0.5	-0.42	-0.9	-0.96	0	0	0	0	0	0
1/23/2025 9:14	52403	GRPA_T2	231	198	-33	1.8	0.72	-1.08	0	0	0	0	0	0	0	0
1/23/2025 9:14	52401	GRPA_T2	6	2	-4	0.55	0	-0.55	-0.38	-0.33	0	0	0	0	0	0
1/23/2025 9:14	46206	DANV_T2	12	6	-6	0.36	0.35	-0.01	0	0	0	0	0	0	0	0
1/23/2025 9:14	52404	GRPA_T2	66	20	-46	0.96	0.63	-0.33	0	0	0	0	0	0	0	0
1/23/2025 9:14	20603	GRWO_T2	59	54	-5	1.27	1.22	-0.05	0	0	0	0	0	0	0	0
1/23/2025 9:15	53502	EVIL_T2	13	16	3	2.89	2.77	-0.12	0	0	0	0	0	0	0	0
1/23/2025 9:15	53501	EVIL_T2	2	1	-1	0.4	1.3	0.9	0	0	0	0	0	0	0	0
1/23/2025 9:18	42903	MIDD_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
1/23/2025 9:18	13503	MCMI_T2	0	0	0	0	0	0	-0.27	-0.42	0	0	0	0	0	0
1/23/2025 9:18	42902	MIDD_T2	1	0	-1	0.4	0	-0.4	-0.62	-0.62	1	1	0	600	600	0
1/23/2025 9:20	42903	MIDD_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
1/23/2025 9:20	42902	MIDD_T2	1	0	-1	0.4	0	-0.4	-0.62	-0.62	1	1	0	600	600	0
1/23/2025 9:20	52502	PROG_T2	0	0	0	0	0	0	-0.19	-0.16	1	1	0	900	900	0
1/23/2025 9:20	13704	SCHN_T2	0	6	6	0	0.15	0.15	-1.65	-1.69	0	0	0	0	0	0
1/23/2025 9:22	52502	PROG_T2	0	0	0	0	0	0	-0.16	-0.17	1	1	0	900	900	0
1/23/2025 9:23	56501	ROCK_T2	137	301	164	0.23	0.38	0.15	-4.3	-4.3	0	0	0	0	0	0
1/23/2025 9:23	40601	PIGR_T1	5	9	4	0.12	0.16	0.04	0	0	0	0	0	0	0	0
1/23/2025 9:23	40603	PIGR_T1	5	1	-4	0.76	0.6	-0.16	0	0	0	0	0	0	0	0
1/23/2025 9:23	40602	PIGR_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/23/2025 9:23	56504	ROCK_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/23/2025 9:26	60803	BUCK_T1	6	8	2	0.32	0.38	0.06	0	0	0	0	0	0	0	0
1/23/2025 9:26	60801	BUCK_T1	0	0	0	0	0	0	0.08	0.34	0	0	0	0	0	0
1/23/2025 9:28	41602	CLEV_T1	19	28	9	0.61	0.76	0.15	0	0	1	1	0	600	600	0
1/23/2025 9:32	60502	NMAN_T2	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
1/23/2025 9:32	60501	NMAN_T2	22	0	-22	0.21	0	-0.21	0	0	0	0	0	0	0	0
1/23/2025 9:34	51204	MTON_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
1/23/2025 9:34	64801	MONE_T2	4	6	2	0.18	0.28	0.1	0	0	0	0	0	0	0	0
1/23/2025 9:34	64802	MONE_T2	4	12	8	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
1/23/2025 9:37	55101	WERT_T1	0	4	4	0	0.3	0.3	-1.16	-1.2	2	2	0	1500	1500	0
1/23/2025 9:40	60803	BUCK_T1	7	8	1	0.39	0.36	-0.03	-0.39	-0.37	1	1	0	600	600	0
1/23/2025 9:40	55101	WERT_T1	0	4	4	0	0.3	0.3	-1.16	-1.2	2	2	0	1500	1500	0
1/23/2025 9:43	45501	DERR_T2	4	7	3	0.33	0.35	0.02	0.81	0.82	2	2	0	1800	1800	0
1/23/2025 9:43	45502	DERR_T2	6	6	0	0.43	0.47	0.04	0	0	0	0	0	0	0	0
1/23/2025 9:45	46501	LOHA_T1	2	10	8	2.1	1.6	-0.5	0.04	0.07	1	1	0	1200	1200	0
1/23/2025 9:45	46506	LOHA_T1	4	5	1	1.18	1.28	0.1	0	0	0	0	0	0	0	0
1/23/2025 9:46	60902	DONG_T2	2	0	-2	0.1	0	-0.1	0.12	0.21	0	0	0	0	0	0
1/23/2025 9:47	46506	LOHA_T1	4	5	1	1.18	1.28	0.1	0	0	0	0	0	0	0	0
1/23/2025 9:47	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
1/23/2025 9:47	46501	LOHA_T1	2	10	8	2.1	1.6	-0.5	0	0	0	0	0	0	0	0
1/23/2025 9:49	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 9:49	64204	KINZ_T1	16	1	-15	0.35	0.7	0.35	0	0	0	0	0	0	0	0
1/23/2025 9:49	46506	LOHA_T1	4	5	1	1.18	1.28	0.1	0	0	0	0	0	0	0	0
1/23/2025 9:49	64201	KINZ_T1	0	0	0	0	0	0	-0.59	-0.61	4	4	0	2100	2100	0
1/23/2025 9:49	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 9:49	64203	KINZ_T1	11	11	0	1.45	2.16	0.71	0	0	0	0	0	0	0	0
1/23/2025 9:49	46501	LOHA_T1	2	10	8	2.1	1.6	-0.5	0	0	0	0	0	0	0	0
1/23/2025 9:49	46502	LOHA_T1	0	0	0	0	0	0	-1.32	-1.29	1	1	0	1200	1200	0
1/23/2025 9:50	64801	MONE_T2	6	0	-6	0.28	0	-0.28	0	0	0	0	0	0	0	0
1/23/2025 9:50	46506	LOHA_T1	4	5	1	1.18	1.28	0.1	0	0	0	0	0	0	0	0
1/23/2025 9:50	46501	LOHA_T1	2	10	8	2.1	1.6	-0.5	0	0	0	0	0	0	0	0
1/23/2025 9:50	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
1/23/2025 9:50	64802	MONE_T2	12	0	-12	0.17	0	-0.17	0.39	0.36	0	0	0	0	0	0
1/23/2025 9:55	55101	WERT_T1	1	4	3	0.3	0	-0.3	-1.2	-1.2	2	2	0	1500	1500	0
1/23/2025 9:58	10801	CHHI_T1	7	3	-4	0.66	0.35	-0.31	-1.76	-1.77	3	3	0	2100	2100	0
1/23/2025 10:05	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 10:05	40603	PIGR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/23/2025 10:05	40601	PIGR_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/23/2025 10:07	43304	WATS_T2	0	0	0	0	0	0	-0.75	-0.96	0	0	0	0	0	0
1/23/2025 10:08	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 10:09	43304	WATS_T2	0	0	0	0	0	0	-0.75	-0.96	0	0	0	0	0	0
1/23/2025 10:11	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 10:22	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/23/2025 10:22	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 10:23	67002	STHI_T2	0	0	0	0	0	0	0.72	0.7	0	0	0	0	0	0
1/23/2025 10:23	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/23/2025 10:25	67401	WAKE_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
1/23/2025 10:25	67402	WAKE_T2	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
1/23/2025 10:26	43304	WATS_T2	0	0	0	0	0	0	-0.96	-0.45	0	0	0	0	0	0
1/23/2025 10:28	61304	EARL_T1	0	11	11	0	0.12	0.12	-0.51	-0.51	1	1	0	600	600	0
1/23/2025 10:32	52003	LING_T1	0	2	2	0	2.35	2.35	0	0	0	0	0	0	0	0
1/23/2025 10:32	52001	LING_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
1/23/2025 10:37	43304	WATS_T2	0	1	1	0	0	0	-0.45	-0.25	0	0	0	0	0	0
1/23/2025 10:38	43304	WATS_T2	0	1	1	0	0	0	-0.45	-0.25	0	0	0	0	0	0
1/23/2025 10:40	43304	WATS_T2	0	1	1	0	0	0	-0.45	-0.25	0	0	0	0	0	0
1/23/2025 10:41	43304	WATS_T2	0	1	1	0	0	0	-0.9	-0.5	0	0	0	0	0	0
1/23/2025 10:42	44301	BEAV_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/23/2025 10:42	43304	WATS_T2	0	1	1	0	0	0	-0.45	-0.25	0	0	0	0	0	0
1/23/2025 10:46	61304	EARL_T1	11	4	-7	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
1/23/2025 10:46	61305	EARL_T1	0	0	0	0	0	0	0.34	0.39	1	1	0	900	900	0
1/23/2025 10:46	61304	MTON_T2	0	0	0	0	0	0	0.36	0.32	0	0	0	0	0	0
1/23/2025 10:47	54503	ENOL_T2	0	0	0	0	0	0	-0.25	-0.28	1	1	0	600	600	0
1/23/2025 10:47	54505	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/23/2025 10:52	66503	SMAN_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
1/23/2025 10:52	66505	SMAN_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
1/23/2025 10:54	59202	THOM_T1	177	214	37	0.28	0.33	0.05	0	0	0	0	0	0	0	0
1/23/2025 10:54	59201	THOM_T1	21	21	0	0.6	0.58	-0.02	0	0	0	0	0	0	0	0
1/23/2025 10:55	60701	BREC_T1	60	95	35	0.24	0.21	-0.03	-0.85	-0.28	2	1	-1	1200	600	-600
1/23/2025 10:56	60701	BREC_T1	60	95	35	0.24	0.21	-0.03	-0.85	-0.28	2	1	-1	1200	600	-600
1/23/2025 10:57	60701	BREC_T1	60	95	35	0.24	0.21	-0.03	-0.85	-0.28	2	1	-1	1200	600	-600
1/23/2025 10:58	44801	EDAN_T2	1	1	0	0.2	0	-0.2	-0.29	-0.27	0	0	0	0	0	0
1/23/2025 10:58	61304	EARL_T1	11	4	-7	0.12	0.1	-0.02	-0.49	-0.29	1	1	0	600	600	0
1/23/2025 10:59	60701	BREC_T1	60	95	35	0.24	0.21	-0.03	-0.85	-0.28	2	1	-1	1200	600	-600
1/23/2025 11:07	55001	NEWP_T1	0	7	7	0	0	0	-0.02	-0.02	0	0	0	0	0	0
1/23/2025 11:07	55002	NEWP_T1	4	4	0	0.43	0.63	0.2	0	0	0	0	0	0	0	0
1/23/2025 11:08	55001	NEWP_T1	0	7	7	0	0	0	-0.02	-0.02	0	0	0	0	0	0
1/23/2025 11:08	67001	STHI_T2	1	2	1	0.5	0.45	-0.05	0.2	0.18	0	0	0	0	0	0
1/23/2025 11:08	55002	NEWP_T1	4	4	0	0.43	0.63	0.2	0	0	0	0	0	0	0	0
1/23/2025 11:12	53501	EVIL_T2	2	2	0	0.7	0.85	0.15	-2.1	-2.21	3	3	0	2100	2100	0
1/23/2025 11:12	53502	EVIL_T2	13	13	0	1.89	1.02	-0.87	0	0	0	0	0	0	0	0
1/23/2025 11:12	61304	EARL_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/23/2025 11:12	61301	EARL_T1	0	0	0	0	0	0	0.32	0.35	0	0	0	0	0	0
1/23/2025 11:13	44301	BEAV_T2	0	0	0	0	0	0	0.48	0.29	1	1	0	600	600	0
1/23/2025 11:14	17401	PONI_T1	2	2	0	0.9	0.7	-0.2	-0.93	-0.93	0	0	0	0	0	0
1/23/2025 11:14	44501	HAMI_T2	4	9	5	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
1/23/2025 11:14	11504	FREE_T1	2	0	-2	0.15	0	-0.15	-1.02	-1.04	2	2	0	2100	2100	0
1/23/2025 11:14	44503	HAMI_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/23/2025 11:14	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 11:14	44502	HAMI_T2	1	1	0	2.5	2.5	0	0	0	0	0	0	0	0	0
1/23/2025 11:14	11502	FREE_T1	3	3	0	1.97	1.05	-0.92	0	0	0	0	0	0	0	0
1/23/2025 11:18	29402	BELT_T1	1	10	9	3.5	2.03	-1.47	0	0	0	0	0	0	0	0
1/23/2025 11:21	41901	REED_T1	1	2	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
1/23/2025 11:21	41902	REED_T1	9	7	-2	0.71	0.43	-0.28	0.48	0.42	1	1	0	900	900	0
1/23/2025 11:21	41903	REED_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/23/2025 11:24	16103	BING_T2	4	5	1	1.33	0.38	-0.95	0	0	0	0	0	0	0	0
1/23/2025 11:24	16102	BING_T2	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/23/2025 11:26	10801	CHHI_T1	4	3	-1	0.5	1.2	0.7	-1.22	-1.09	2	2	0	1500	1500	0
1/23/2025 11:28	10805	CHHI_T2	7	7	0	2.34	1.57	-0.77	-0.56	-0.66	1	1	0	600	600	0
1/23/2025 11:30	43304	WATS_T2	0	0	0	0	0	0	-0.24	-0.32	0	0	0	0	0	0
1/23/2025 11:31	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 11:38	64101	REFR_T1	0	1	1	0	0	0	0.13	0.14	0	0	0	0	0	0
1/23/2025 11:42	65205	PRIN_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
1/23/2025 11:42	10801	CHHI_T1	1	2	1	1.2	1.5	0.3	-1.09	-1.09	2	2	0	1500	1500	0
1/23/2025 11:46	63305	GREE_T1	2	4	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
1/23/2025 11:46	63302	GREE_T1	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
1/23/2025 11:47	23402	HONE_T2	1	3	2	0.1	0.6	0.5	0	0	0	0	0	0	0	0
1/23/2025 11:47	23401	HONE_T2	112	58	-54	0.65	0.48	-0.17	0.22	0.28	0	0	0	0	0	0
1/23/2025 11:50	44902	SCOT_T2	582	730	148	0.75	1.03	0.28	-0.87	-0.88	0	0	0	0	0	0
1/23/2025 11:50	44901	SCOT_T2	168	357	189	0.28	0.66	0.38	0	0	0	0	0	0	0	0
1/23/2025 11:51	44905	SCOT_T1	4	11	7	1.23	1.5	0.27	0	0	0	0	0	0	0	0
1/23/2025 11:51	44902	SCOT_T2	582	730	148	0.75	1.03	0.28	-0.87	-0.88	0	0	0	0	0	0
1/23/2025 11:51	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 11:51	44901	SCOT_T2	168	357	189	0.28	0.66	0.38	0.19	0.2	0	0	0	0	0	0
1/23/2025 11:52	44905	SCOT_T1	4	11	7	1.23	1.5	0.27	0	0	0	0	0	0	0	0
1/23/2025 11:54	44902	SCOT_T2	582	730	148	0.75	1.03	0.28	0	0	0	0	0	0	0	0
1/23/2025 11:54	44901	SCOT_T2	168	357	189	0.28	0.66	0.38	0.2	-0.02	0	0	0	0	0	0
1/23/2025 11:56	45501	DERR_T2	0	4	4	0	0.1	0.1	0.64	0.55	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/23/2025 11:58	16103	BING_T2	2	3	1	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
1/23/2025 11:58	16102	BING_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
1/23/2025 11:58	45501	DERR_T2	0	4	4	0	0.1	0.1	0.64	0.55	2	2	0	1800	1800	0
1/23/2025 11:59	43301	WATS_T2	0	1	1	0	0.1	0.1	0.28	0.28	0	0	0	0	0	0
1/23/2025 12:00	22805	HAUT_T2	270	306	36	1.28	1.22	-0.06	0	0	0	0	0	0	0	0
1/23/2025 12:00	22803	HAUT_T2	68	60	-8	1.79	1.32	-0.47	0	0	0	0	0	0	0	0
1/23/2025 12:24	64101	REFR_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
1/23/2025 12:24	13704	SCHN_T2	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
1/23/2025 12:26	57502	LAWN_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 12:27	42701	AUGU_T1	10	2	-8	0.29	0.7	0.41	0	0	0	0	0	0	0	0
1/23/2025 12:30	46803	HEPB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 12:30	46801	HEPB_T2	2	2	0	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
1/23/2025 12:32	43202	MVIL_T2	42	54	12	0.26	0.38	0.12	-0.53	-0.5	0	0	0	0	0	0
1/23/2025 12:32	45801	HEGI_T1	0	0	0	0	0	0	-0.69	-0.61	1	1	0	900	900	0
1/23/2025 12:33	29402	BELT_T1	2	1	-1	2.75	5.8	3.05	0	0	0	0	0	0	0	0
1/23/2025 12:33	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/23/2025 12:34	40902	JESH_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	600	600	0
1/23/2025 12:34	40901	JESH_T1	1	1	0	2.1	1.6	-0.5	0	0	0	0	0	0	0	0
1/23/2025 12:40	64101	REFR_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
1/23/2025 12:48	58202	NEWV_T1	1	6	5	0.1	0.13	0.03	-0.12	-0.14	0	0	0	0	0	0
1/23/2025 12:53	54504	ENOL_T2	0	0	0	0	0	0	-1	-1	1	1	0	600	600	0
1/23/2025 12:53	54503	ENOL_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
1/23/2025 12:53	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
1/23/2025 12:53	54506	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 12:55	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 12:55	66505	SMAN_T2	3	1	-2	0.33	0.1	-0.23	0	0	0	0	0	0	0	0
1/23/2025 12:56	54601	SUMM_T2	1	2	1	0.2	0.2	0	-1.67	-1.71	2	2	0	2100	2100	0
1/23/2025 12:56	54603	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 13:01	52502	PROG_T2	0	0	0	0	0	0	-0.4	-0.37	1	1	0	900	900	0
1/23/2025 13:09	54601	SUMM_T2	2	4	2	0.15	0.25	0.1	0	0	0	0	0	0	0	0
1/23/2025 13:09	54603	SUMM_T2	0	0	0	0	0	0	-0.23	-0.33	1	1	0	900	900	0
1/23/2025 13:14	45501	DERR_T2	1	4	3	0.2	0.7	0.5	0.46	0.45	2	2	0	1800	1800	0
1/23/2025 13:14	46802	HEPB_T1	6	7	1	0.37	0.31	-0.06	-1.13	-1.19	0	0	0	0	0	0
1/23/2025 13:16	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/23/2025 13:16	52402	GRPA_T2	34	46	12	0.86	0.8	-0.06	0	0	0	0	0	0	0	0
1/23/2025 13:16	52403	GRPA_T2	3	4	1	0.97	0.9	-0.07	0	0	0	0	0	0	0	0
1/23/2025 13:16	52404	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/23/2025 13:23	64101	REFR_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
1/23/2025 13:26	64101	REFR_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
1/23/2025 13:27	61703	ELIZ_T1	0	0	0	0	0	0	-0.83	-0.88	1	1	0	900	900	0
1/23/2025 13:27	61701	ELIZ_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
1/23/2025 13:31	61703	ELIZ_T1	0	3	3	0	0.13	0.13	-0.83	-0.88	1	1	0	900	900	0
1/23/2025 13:31	61701	ELIZ_T1	1	1	0	5.3	5.8	0.5	0	0	0	0	0	0	0	0
1/23/2025 13:33	60903	DONG_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/23/2025 13:33	60902	DONG_T2	0	2	2	0	0.3	0.3	0.64	0.63	0	0	0	0	0	0
1/23/2025 13:33	60901	DONG_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
1/23/2025 13:37	54505	ENOL_T2	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
1/23/2025 13:37	54503	ENOL_T2	5	0	-5	0.2	0	-0.2	-0.32	-0.32	1	1	0	600	600	0
1/23/2025 13:37	54502	ENOL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/23/2025 13:39	59202	THOM_T1	41	28	-13	0.31	0.26	-0.05	0	0	0	0	0	0	0	0
1/23/2025 13:39	59201	THOM_T1	19	13	-6	0.37	0.31	-0.06	0	0	0	0	0	0	0	0
1/23/2025 13:40	54502	ENOL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/23/2025 13:40	54503	ENOL_T2	5	0	-5	0.2	0	-0.2	-0.96	-0.96	3	3	0	1800	1800	0
1/23/2025 13:40	54505	ENOL_T2	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
1/23/2025 13:40	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 13:41	54505	ENOL_T2	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
1/23/2025 13:41	54503	ENOL_T2	5	0	-5	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/23/2025 13:41	54502	ENOL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/23/2025 13:42	54502	ENOL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/23/2025 13:42	54505	ENOL_T2	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
1/23/2025 13:42	54503	ENOL_T2	5	0	-5	0.2	0	-0.2	-0.32	-0.32	1	1	0	600	600	0
1/23/2025 13:51	66502	SMAN_T2	0	0	0	0	0	0	0.32	0.27	0	0	0	0	0	0
1/23/2025 13:52	66502	SMAN_T2	0	0	0	0	0	0	0.27	0.35	0	0	0	0	0	0
1/23/2025 13:53	66502	SMAN_T2	0	0	0	0	0	0	0.27	0.35	0	0	0	0	0	0
1/23/2025 13:54	66502	SMAN_T2	0	0	0	0	0	0	0.54	0.7	0	0	0	0	0	0
1/23/2025 13:56	24202	PROV_T4	0	0	0	0	0	0	-0.67	-0.7	1	1	0	1200	1200	0
1/23/2025 13:56	24206	PROV_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 13:56	67402	WAKE_T2	0	0	0	0	0	0	1.06	1.06	0	0	0	0	0	0
1/23/2025 13:56	67401	WAKE_T2	38	42	4	0.28	0.33	0.05	-0.96	-1.05	0	0	0	0	0	0
1/23/2025 14:01	63304	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/23/2025 14:01	63302	GREE_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
1/23/2025 14:01	63305	GREE_T1	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
1/23/2025 14:01	63306	GREE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/23/2025 14:05	53502	EVIL_T2	11	1	-10	0.21	1.2	0.99	0	0	0	0	0	0	0	0
1/23/2025 14:05	53501	EVIL_T2	2	2	0	0.4	0.55	0.15	-1.73	-1.77	2	2	0	1500	1500	0
1/23/2025 14:10	10801	CHHI_T1	2	1	-1	0.85	1.3	0.45	-1.42	-1.48	2	2	0	1500	1500	0
1/23/2025 14:11	60803	BUCK_T1	27	34	7	0.5	0.43	-0.07	-0.94	-0.92	2	2	0	1200	1200	0
1/23/2025 14:11	60801	BUCK_T1	15	26	11	0.14	0.2	0.06	0.31	0.36	0	0	0	0	0	0
1/23/2025 14:12	46203	DANV_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
1/23/2025 14:12	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/23/2025 14:18	63501	HEID_TBK1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 14:21	54503	ENOL_T2	0	0	0	0	0	0	-0.34	-0.34	1	1	0	600	600	0
1/23/2025 14:21	54505	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
1/23/2025 14:34	12602	MACA_T1	1	39	38	0.1	0.19	0.09	-1.88	-1.91	0	0	0	0	0	0
1/23/2025 14:34	12606	MACA_T1	6	1	-5	0.42	0	-0.42	0	0	0	0	0	0	0	0
1/23/2025 14:38	42501	ALTA_T2	0	3	3	0	0.13	0.13	0	0.09	1	1	0	600	600	0
1/23/2025 14:38	42504	ALTA_T2	2	3	1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
1/23/2025 14:38	42503	ALTA_T2	5	8	3	0.26	0.12	-0.14	0	0	0	0	0	0	0	0
1/23/2025 14:43	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 14:44	21501	CEAV_T2	0	0	0	0	0	0	0.15	-0.17	1	1	0	1200	1200	0
1/23/2025 14:48	43202	MVIL_T2	35	57	22	0.25	0.49	0.24	-0.5	-0.51	0	0	0	0	0	0
1/23/2025 14:48	42302	MOWR_T2	47	65	18	0.45	0.52	0.07	0	0	0	0	0	0	0	0
1/23/2025 14:48	42301	MOWR_T2	3	3	0	0.17	0.17	0	-0.6	-0.6	0	0	0	0	0	0
1/23/2025 14:49	63601	LETO_T1	0	1	1	0	0.1	0.1	1.25	0.95	1	1	0	900	900	0
1/23/2025 14:54	46004	BERW_T2	0	1	1	0	0	0	-0.59	-0.6	0	0	0	0	0	0
1/23/2025 14:55	44601	SALE_T2	0	3	3	0	0	0	0.08	0.08	0	0	0	0	0	0
1/23/2025 14:56	66902	SHIL_T2	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
1/23/2025 14:56	66901	SHIL_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
1/23/2025 14:58	62105	ELAN_T1	0	24	24	0	0.11	0.11	0.51	0.53	0	0	0	0	0	0
1/23/2025 14:58	62106	ELAN_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
1/23/2025 14:58	62103	ELAN_T1	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
1/23/2025 15:08	13701	SCHN_T2	0	0	0	0	0	0	0	0.01	1	1	0	600	600	0
1/23/2025 15:17	42301	MOWR_T2	3	2	-1	0.17	0.4	0.23	-0.32	-0.33	0	0	0	0	0	0
1/23/2025 15:17	42302	MOWR_T2	65	68	3	0.52	0.5	-0.02	0	0	0	0	0	0	0	0
1/23/2025 15:18	42301	MOWR_T2	3	2	-1	0.17	0.4	0.23	-0.32	-0.33	0	0	0	0	0	0
1/23/2025 15:18	42302	MOWR_T2	65	68	3	0.52	0.5	-0.02	0	0	0	0	0	0	0	0
1/23/2025 15:18	22402	KIMB_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
1/23/2025 15:19	42301	MOWR_T2	3	2	-1	0.17	0.4	0.23	-0.64	-0.66	0	0	0	0	0	0
1/23/2025 15:19	42302	MOWR_T2	65	68	3	0.52	0.5	-0.02	0	0	0	0	0	0	0	0
1/23/2025 15:24	43402	BENT_T1	89	76	-13	0.43	0.3	-0.13	0.08	0.09	0	0	0	0	0	0
1/23/2025 15:26	64305	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 15:26	14801	TREI_T2	0	0	0	0	0	0	0.64	0.7	0	0	0	0	0	0
1/23/2025 15:26	60201	ATGL_T2	1	5	4	0.3	0.18	-0.12	1.05	1.04	0	0	0	0	0	0
1/23/2025 15:42	44802	EDAN_T2	0	0	0	0	0	0	-2.04	-2.14	0	0	0	0	0	0
1/23/2025 15:42	44801	EDAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/23/2025 15:44	44802	EDAN_T2	0	0	0	0	0	0	-2.04	-2.14	0	0	0	0	0	0
1/23/2025 15:44	44801	EDAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/23/2025 15:46	60801	BUCK_T1	21	36	15	0.21	0.32	0.11	0	0	0	0	0	0	0	0
1/23/2025 15:46	44801	EDAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/23/2025 15:46	44802	EDAN_T2	0	0	0	0	0	0	-2.04	-2.14	0	0	0	0	0	0
1/23/2025 15:46	60803	BUCK_T1	26	31	5	0.54	0.58	0.04	-0.47	-0.48	1	1	0	600	600	0
1/23/2025 16:14	60701	BREC_T1	0	0	0	0	0	0	-0.36	-0.36	1	1	0	600	600	0
1/23/2025 16:21	40602	PIGR_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/23/2025 16:21	40601	PIGR_T1	186	182	-4	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
1/23/2025 16:25	40301	TAMA_T3	1	2	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 16:25	40302	TAMA_T3	5	4	-1	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
1/23/2025 16:40	41901	REED_T1	8	13	5	0.65	0.44	-0.21	0	0	0	0	0	0	0	0
1/23/2025 16:40	41902	REED_T1	1	5	4	1.9	0.2	-1.7	0	0	0	0	0	0	0	0
1/23/2025 16:55	55101	WERT_T1	0	0	0	0	0	0	-1.57	-1.6	2	2	0	1500	1500	0
1/23/2025 17:52	42504	ALTA_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/23/2025 17:52	42501	ALTA_T2	0	0	0	0	0	0	0.1	0.12	1	1	0	600	600	0
1/23/2025 17:52	42503	ALTA_T2	6	8	2	1.02	1.03	0.01	0	0	0	0	0	0	0	0
1/23/2025 18:44	63601	LETO_T1	0	0	0	0	0	0	1.12	0.97	1	1	0	900	900	0
1/23/2025 19:06	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/23/2025 19:06	29402	BELT_T1	5	5	0	1.54	2.4	0.86	0	0	0	0	0	0	0	0
1/23/2025 19:07	26704	HEML_T2	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
1/23/2025 19:07	44601	SALE_T2	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
1/23/2025 19:11	46506	LOHA_T1	3	3	0	1.17	1.57	0.4	0	0	0	0	0	0	0	0
1/23/2025 19:11	46004	BERW_T2	6	8	2	0.58	0.6	0.02	-0.54	-0.52	0	0	0	0	0	0
1/23/2025 19:11	46501	LOHA_T1	3	4	1	1.47	1.43	-0.04	0	0	0	0	0	0	0	0
1/23/2025 19:11	46502	LOHA_T1	0	0	0	0	0	0	-1.34	-1.33	1	1	0	1200	1200	0
1/23/2025 19:12	46501	LOHA_T1	3	4	1	1.47	1.43	-0.04	0.03	0.01	1	1	0	1200	1200	0
1/23/2025 19:12	14603	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:12	44902	SCOT_T2	517	580	63	0.48	0.57	0.09	-0.86	-0.87	0	0	0	0	0	0
1/23/2025 19:12	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:12	44901	SCOT_T2	7	36	29	0.23	0.19	-0.04	0	0	0	0	0	0	0	0
1/23/2025 19:12	12603	MACA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:12	46506	LOHA_T1	3	3	0	1.17	1.57	0.4	0	0	0	0	0	0	0	0
1/23/2025 19:12	14605	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/23/2025 19:12	12602	MACA_T1	0	0	0	0	0	0	-1.84	-1.86	0	0	0	0	0	0
1/23/2025 19:12	12601	MACA_T1	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
1/23/2025 19:12	12606	MACA_T1	20	16	-4	0.9	0.41	-0.49	0	0	0	0	0	0	0	0
1/23/2025 19:13	41901	REED_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/23/2025 19:13	41902	REED_T1	107	79	-28	0.61	0.75	0.14	0.51	0.45	1	1	0	900	900	0
1/23/2025 19:14	42301	MOWR_T2	0	1	1	0	0.1	0.1	-0.3	-0.31	0	0	0	0	0	0
1/23/2025 19:14	43301	WATS_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
1/23/2025 19:14	46206	DANV_T2	3	1	-2	0.27	0	-0.27	1.6	1.62	2	2	0	2100	2100	0
1/23/2025 19:14	46203	DANV_T2	9	14	5	0.72	0.79	0.07	0	0	0	0	0	0	0	0
1/23/2025 19:14	43304	WATS_T2	24	10	-14	0.62	0.2	-0.42	0	0	0	0	0	0	0	0
1/23/2025 19:14	42302	MOWR_T2	21	30	9	0.21	0.3	0.09	0	0	0	0	0	0	0	0
1/23/2025 19:14	10801	CHHI_T1	29	10	-19	0.58	0.9	0.32	-1.17	-1.18	2	2	0	1500	1500	0
1/23/2025 19:14	46204	DANV_T2	6	8	2	0.32	0.55	0.23	0	0	0	0	0	0	0	0
1/23/2025 19:14	10805	CHHI_T2	9	11	2	3.7	3.87	0.17	-0.68	-0.79	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/23/2025 19:15	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/23/2025 19:15	43402	BENT_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
1/23/2025 19:15	43401	BENT_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/23/2025 19:15	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:15	54503	ENOL_T2	0	0	0	0	0	0	-0.29	-0.29	1	1	0	600	600	0
1/23/2025 19:16	46501	LOHA_T1	3	4	1	1.43	1.08	-0.35	0	0	0	0	0	0	0	0
1/23/2025 19:16	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
1/23/2025 19:16	46502	LOHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:16	45801	HEGI_T1	0	0	0	0	0	0	-0.18	-0.17	1	1	0	900	900	0
1/23/2025 19:16	13503	MCMI_T2	0	0	0	0	0	0	-0.28	-0.32	0	0	0	0	0	0
1/23/2025 19:16	46506	LOHA_T1	3	3	0	1.57	1.33	-0.24	0	0	0	0	0	0	0	0
1/23/2025 19:16	41602	CLEV_T1	39	11	-28	0.39	0.1	-0.29	0	0	0	0	0	0	0	0
1/23/2025 19:16	44802	EDAN_T2	1	0	-1	2.3	0	-2.3	-2.02	-2.05	0	0	0	0	0	0
1/23/2025 19:16	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/23/2025 19:16	24206	PROV_T4	1	0	-1	5.8	0	-5.8	0	0	0	0	0	0	0	0
1/23/2025 19:16	42701	AUGU_T1	6	5	-1	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
1/23/2025 19:16	24202	PROV_T4	0	0	0	0	0	0	-0.69	-0.68	1	1	0	1200	1200	0
1/23/2025 19:16	43304	WATS_T2	4	27	23	0.2	0.33	0.13	-0.16	-0.26	0	0	0	0	0	0
1/23/2025 19:16	60801	BUCK_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
1/23/2025 19:16	60803	BUCK_T1	5	7	2	0.32	0.24	-0.08	0	0	0	0	0	0	0	0
1/23/2025 19:16	13701	SCHN_T2	0	0	0	0	0	0	0.13	0.11	1	1	0	600	600	0
1/23/2025 19:16	13704	SCHN_T2	5	7	2	0.76	0.93	0.17	0	0	0	0	0	0	0	0
1/23/2025 19:16	54503	ENOL_T2	0	0	0	0	0	0	-0.58	-0.58	2	2	0	1200	1200	0
1/23/2025 19:16	44801	EDAN_T2	1	1	0	0.8	0.8	0	-0.3	-0.29	0	0	0	0	0	0
1/23/2025 19:16	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:17	44901	SCOT_T2	23	47	24	0.21	0.19	-0.02	0	-0.08	0	0	0	0	0	0
1/23/2025 19:17	44801	EDAN_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
1/23/2025 19:17	44502	HAMI_T2	2	2	0	2.15	2	-0.15	0	0	0	0	0	0	0	0
1/23/2025 19:17	60701	BREC_T1	36	26	-10	0.55	0.44	-0.11	-0.83	-0.79	2	2	0	1200	1200	0
1/23/2025 19:17	44802	EDAN_T2	1	0	-1	2.3	0	-2.3	-2.02	-2.05	0	0	0	0	0	0
1/23/2025 19:17	44902	SCOT_T2	569	590	21	0.57	0.6	0.03	0	0	0	0	0	0	0	0
1/23/2025 19:17	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.15	0	0	0	0	0	0
1/23/2025 19:17	42302	MOWR_T2	27	33	6	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
1/23/2025 19:17	42301	MOWR_T2	1	0	-1	0.1	0	-0.1	-0.3	-0.31	0	0	0	0	0	0
1/23/2025 19:17	66505	SMAN_T2	2	2	0	0.15	0.65	0.5	0	0	0	0	0	0	0	0
1/23/2025 19:17	44501	HAMI_T2	0	8	8	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:17	64802	MONE_T2	0	0	0	0	0	0	0.13	0.2	0	0	0	0	0	0
1/23/2025 19:17	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:18	11504	FREE_T1	0	2	2	0	0.1	0.1	-1.08	-1.03	2	2	0	2100	2100	0
1/23/2025 19:18	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:18	59202	THOM_T1	300	270	-30	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
1/23/2025 19:18	59201	THOM_T1	28	23	-5	0.84	0.94	0.1	0	0	0	0	0	0	0	0
1/23/2025 19:18	67002	STHI_T2	3	0	-3	0.1	0	-0.1	0.69	0.68	0	0	0	0	0	0
1/23/2025 19:18	42301	MOWR_T2	1	0	-1	0.1	0	-0.1	-0.3	-0.31	0	0	0	0	0	0
1/23/2025 19:18	67001	STHI_T2	1	0	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
1/23/2025 19:18	66902	SHIL_T2	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
1/23/2025 19:18	42302	MOWR_T2	27	33	6	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
1/23/2025 19:18	66505	SMAN_T2	2	2	0	0.15	0.65	0.5	0	0	0	0	0	0	0	0
1/23/2025 19:18	23401	HONE_T2	117	223	106	0.57	0.58	0.01	0.26	0.26	0	0	0	0	0	0
1/23/2025 19:18	23402	HONE_T2	2	7	5	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
1/23/2025 19:18	43304	WATS_T2	4	27	23	0.2	0.33	0.13	-0.16	-0.26	0	0	0	0	0	0
1/23/2025 19:18	11502	FREE_T1	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
1/23/2025 19:18	10801	CHHI_T1	10	20	10	0.89	1.28	0.39	-2.34	-2.36	4	4	0	3000	3000	0
1/23/2025 19:19	52402	GRPA_T2	55	50	-5	0.66	0.84	0.18	0	0	0	0	0	0	0	0
1/23/2025 19:19	40301	TAMA_T3	1	4	3	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:19	52403	GRPA_T2	10	17	7	0.59	0.54	-0.05	0	0	0	0	0	0	0	0
1/23/2025 19:19	62105	ELAN_T1	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
1/23/2025 19:19	44801	EDAN_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
1/23/2025 19:19	44301	BEAV_T2	5	6	1	0.62	1.27	0.65	-0.33	-0.24	1	1	0	600	600	0
1/23/2025 19:19	52404	GRPA_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
1/23/2025 19:19	54601	SUMM_T2	0	0	0	0	0	0	-1.53	-1.57	2	2	0	2100	2100	0
1/23/2025 19:19	60901	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/23/2025 19:19	44302	BEAV_T2	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:19	44802	EDAN_T2	1	0	-1	2.3	0	-2.3	-2.02	-2.05	0	0	0	0	0	0
1/23/2025 19:19	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
1/23/2025 19:19	60902	DONG_T2	1	0	-1	0.2	0	-0.2	0.62	0.52	0	0	0	0	0	0
1/23/2025 19:19	42902	MIDD_T2	36	11	-25	0.48	0.41	-0.07	-0.39	-0.41	0	0	0	0	0	0
1/23/2025 19:19	40302	TAMA_T3	19	9	-10	0.65	0.42	-0.23	0	0	0	0	0	0	0	0
1/23/2025 19:19	42903	MIDD_T2	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0	0
1/23/2025 19:20	60902	DONG_T2	1	0	-1	0.2	0	-0.2	0.62	0.52	0	0	0	0	0	0
1/23/2025 19:20	52502	PROG_T2	0	1	1	0	0	0	-0.25	-0.21	1	1	0	900	900	0
1/23/2025 19:20	10801	CHHI_T1	10	20	10	0.89	1.28	0.39	-1.17	-1.18	2	2	0	1500	1500	0
1/23/2025 19:20	13503	MCMI_T2	0	0	0	0	0	0	-0.28	-0.32	0	0	0	0	0	0
1/23/2025 19:20	45502	DERR_T2	8	8	0	0.84	0.6	-0.24	0	0	0	0	0	0	0	0
1/23/2025 19:20	60901	DONG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/23/2025 19:20	45501	DERR_T2	5	7	2	1.26	1.13	-0.13	0.43	0.4	2	2	0	1800	1800	0
1/23/2025 19:20	60502	NMAN_T2	0	0	0	0	0	0	-0.17	-0.22	0	0	0	0	0	0
1/23/2025 19:21	40601	PIGR_T1	57	105	48	0.31	0.32	0.01	0	0	0	0	0	0	0	0
1/23/2025 19:21	57502	LAWN_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:21	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:21	54603	SUMM_T2	0	0	0	0	0	0	-0.27	-0.24	1	1	0	900	900	0
1/23/2025 19:21	57505	LAWN_T3	14	14	0	0.84	1.4	0.56	0	0	0	0	0	0	0	0
1/23/2025 19:21	45501	DERR_T2	5	7	2	1.26	1.13	-0.13	0.86	0.8	4	4	0	3600	3600	0
1/23/2025 19:21	46203	DANV_T2	14	36	22	0.73	0.66	-0.07	-1.13	-1.08	0	0	0	0	0	0
1/23/2025 19:21	60701	BREC_T1	36	26	-10	0.55	0.44	-0.11	-0.83	-0.79	2	2	0	1200	1200	0
1/23/2025 19:21	46204	DANV_T2	8	6	-2	0.48	0.85	0.37	0	0	0	0	0	0	0	0
1/23/2025 19:21	64204	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/23/2025 19:21	43202	MVIL_T2	0	2	2	0	0	0	-0.49	-0.52	0	0	0	0	0	0
1/23/2025 19:21	40602	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/23/2025 19:21	51303	WIND_T1	9	14	5	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
1/23/2025 19:21	64203	KINZ_T1	6	6	0	0.92	0.6	-0.32	0	0	0	0	0	0	0	0
1/23/2025 19:21	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:21	43304	WATS_T2	4	27	23	0.2	0.33	0.13	-0.16	-0.26	0	0	0	0	0	0
1/23/2025 19:21	64201	KINZ_T1	0	0	0	0	0	0	-0.07	-0.11	3	3	0	1500	1500	0
1/23/2025 19:21	45502	DERR_T2	8	8	0	0.84	0.6	-0.24	0	0	0	0	0	0	0	0
1/23/2025 19:22	58202	NEWP_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
1/23/2025 19:22	40601	PIGR_T1	57	105	48	0.31	0.32	0.01	0	0	0	0	0	0	0	0
1/23/2025 19:22	67001	STHI_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
1/23/2025 19:22	16103	BING_T2	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0	0
1/23/2025 19:22	59201	THOM_T1	28	23	-5	0.84	0.94	0.1	0	0	0	0	0	0	0	0
1/23/2025 19:22	45502	DERR_T2	8	8	0	0.84	0.6	-0.24	0	0	0	0	0	0	0	0
1/23/2025 19:22	56501	ROCK_T2	2	4	2	2.55	0.85	-1.7	-1.28	-1.29	0	0	0	0	0	0
1/23/2025 19:22	16101	BING_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/23/2025 19:22	44902	SCOT_T2	569	590	21	0.57	0.6	0.03	-0.87	-0.87	0	0	0	0	0	0
1/23/2025 19:22	45501	DERR_T2	5	7	2	1.26	1.13	-0.13	0.4	0.45	2	2	0	1800	1800	0
1/23/2025 19:22	63501	HEID_TBK1-2	14	15	1	0.41	0.46	0.05	0	0	0	0	0	0	0	0
1/23/2025 19:22	13503	MCMI_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
1/23/2025 19:22	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:22	44901	SCOT_T2	23	47	24	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
1/23/2025 19:22	22805	HAUT_T2	645	659	14	1.49	1.32	-0.17	0	0	0	0	0	0	0	0
1/23/2025 19:22	59202	THOM_T1	300	270	-30	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
1/23/2025 19:22	66505	SMAN_T2	2	2	0	0.15	0.65	0.5	0	0	0	0	0	0	0	0
1/23/2025 19:22	43304	WATS_T2	4	27	23	0.2	0.33	0.13	0	0	0	0	0	0	0	0
1/23/2025 19:22	43202	MVIL_T2	0	2	2	0	0	0	-0.52	-0.49	0	0	0	0	0	0
1/23/2025 19:22	22803	HAUT_T2	226	231	5	1.76	1.49	-0.27	0	0	0	0	0	0	0	0
1/23/2025 19:22	40602	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/23/2025 19:22	66502	SMAN_T2	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
1/23/2025 19:22	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/23/2025 19:22	54503	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:22	67002	STHI_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/23/2025 19:22	66503	SMAN_T2	0	0	0	0	0	0	0.44	0.45	0	0	0	0	0	0
1/23/2025 19:23	60701	BREC_T1	36	26	-10	0.55	0.44	-0.11	-1.57	-1.7	4	4	0	2400	2400	0
1/23/2025 19:23	46203	DANV_T2	14	36	22	0.73	0.66	-0.07	-1.08	-1.09	0	0	0	0	0	0
1/23/2025 19:23	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:23	54503	ENOL_T2	0	0	0	0	0	0	-0.58	-0.5	2	2	0	1200	1200	0
1/23/2025 19:23	40901	JESH_T1	2	1	-1	1.3	1.5	0.2	0	0	0	0	0	0	0	0
1/23/2025 19:23	41901	REED_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
1/23/2025 19:23	44905	SCOT_T1	12	5	-7	0.75	0.35	-0.4	0	0	0	0	0	0	0	0
1/23/2025 19:23	40902	JESH_T1	0	0	0	0	0	0	-1.12	-1.17	1	1	0	600	600	0
1/23/2025 19:23	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:23	60201	ATGL_T2	6	5	-1	0.3	0.22	-0.08	0.22	0.17	0	0	0	0	0	0
1/23/2025 19:23	43304	WATS_T2	4	27	23	0.2	0.33	0.13	-0.26	-0.16	0	0	0	0	0	0
1/23/2025 19:23	46204	DANV_T2	8	6	-2	0.48	0.85	0.37	0	0	0	0	0	0	0	0
1/23/2025 19:23	41902	REED_T1	44	80	36	0.78	0.66	-0.12	0	0	0	0	0	0	0	0
1/23/2025 19:23	66505	SMAN_T2	2	2	0	0.15	0.65	0.5	0	0	0	0	0	0	0	0
1/23/2025 19:23	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:23	66502	SMAN_T2	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
1/23/2025 19:23	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/23/2025 19:24	13704	SCHN_T2	5	7	2	0.76	0.93	0.17	-0.61	-0.6	0	0	0	0	0	0
1/23/2025 19:24	66505	SMAN_T2	2	2	0	0.15	0.65	0.5	0	0	0	0	0	0	0	0
1/23/2025 19:24	66502	SMAN_T2	0	0	0	0	0	0	-0.3	-0.34	0	0	0	0	0	0
1/23/2025 19:25	52403	GRPA_T2	10	17	7	0.59	0.54	-0.05	0	0	0	0	0	0	0	0
1/23/2025 19:25	46502	LOHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:25	45501	DERR_T2	5	7	2	1.26	1.13	-0.13	0.4	0.45	2	2	0	1800	1800	0
1/23/2025 19:25	52402	GRPA_T2	55	50	-5	0.66	0.84	0.18	0	0	0	0	0	0	0	0
1/23/2025 19:25	65205	PRIN_T1	2	1	-1	2.4	1.4	-1	0	0	0	0	0	0	0	0
1/23/2025 19:25	46506	LOHA_T1	3	3	0	1.57	1.33	-0.24	0	0	0	0	0	0	0	0
1/23/2025 19:25	44302	BEAV_T2	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:25	65202	PRIN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/23/2025 19:25	55001	NEWP_T1	0	0	0	0	0	0	-1.26	-1.28	2	2	0	1200	1200	0
1/23/2025 19:25	61301	EARL_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
1/23/2025 19:25	43304	WATS_T2	4	27	23	0.2	0.33	0.13	-0.26	-0.16	0	0	0	0	0	0
1/23/2025 19:25	44301	BEAV_T2	5	6	1	0.62	1.27	0.65	0	0	0	0	0	0	0	0
1/23/2025 19:25	53502	EVIL_T2	1	14	13	0.4	0.9	0.5	0	0	0	0	0	0	0	0
1/23/2025 19:25	46501	LOHA_T1	3	4	1	1.43	1.08	-0.35	0	0	0	0	0	0	0	0
1/23/2025 19:25	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
1/23/2025 19:25	55002	NEWP_T1	5	4	-1	0.78	0.6	-0.18	0	0	0	0	0	0	0	0
1/23/2025 19:25	45502	DERR_T2	8	8	0	0.84	0.6	-0.24	0	0	0	0	0	0	0	0
1/23/2025 19:25	53501	EVIL_T2	0	0	0	0	0	0	-0.77	-0.75	1	1	0	600	600	0
1/23/2025 19:25	52404	GRPA_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
1/23/2025 19:25	52401	GRPA_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
1/23/2025 19:26	67001	STHI_T2	1	1	0	0.8	0.7	-0.1	0.19	0.19	0	0	0	0	0	0
1/23/2025 19:26	51204	MTON_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/23/2025 19:26	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:26	43304	WATS_T2	4	27	23	0.2	0.33	0.13	-0.26	-0.16	0	0	0	0	0	0
1/23/2025 19:26	55101	WERT_T1	0	0	0	0	0	0	-1.68	-1.7	2	2	0	1500	1500	0
1/23/2025 19:26	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/23/2025 19:26	61701	ELIZ_T1	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
1/23/2025 19:26	54503	ENOL_T2	0	0	0	0	0	0	-0.29	-0.25	1	1	0	600	600	0
1/23/2025 19:26	61703	ELIZ_T1	0	0	0	0	0	0	-0.73	-0.92	1	1	0	900	900	0
1/23/2025 19:26	60803	BUCK_T1	5	7	2	0.32	0.24	-0.08	-0.42	-0.43	1	1	0	600	600	0
1/23/2025 19:26	67002	STHI_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/23/2025 19:27	42903	MIDD_T2	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0	0
1/23/2025 19:27	63306	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:27	52001	LING_T1	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
1/23/2025 19:27	43304	WATS_T2	4	27	23	0.2	0.33	0.13	-0.78	-0.48	0	0	0	0	0	0
1/23/2025 19:27	55101	WERT_T1	0	0	0	0	0	0	-1.68	-1.7	2	2	0	1500	1500	0
1/23/2025 19:27	42302	MOWR_T2	27	33	6	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
1/23/2025 19:27	61304	EARL_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
1/23/2025 19:27	42301	MOWR_T2	1	0	-1	0.1	0	-0.1	-0.93	-0.93	0	0	0	0	0	0
1/23/2025 19:27	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:27	67402	WAKE_T2	0	0	0	0	0	0	0.36	0.4	0	0	0	0	0	0
1/23/2025 19:27	42902	MIDD_T2	36	11	-25	0.48	0.41	-0.07	-0.41	-0.45	0	0	0	0	0	0
1/23/2025 19:27	21501	CEAV_T2	10	7	-3	0.86	0.71	-0.15	-0.21	-0.23	1	1	0	1200	1200	0
1/23/2025 19:28	11102	EGYP_T1	10	16	6	1.17	1.17	0	0	0	0	0	0	0	0	0
1/23/2025 19:28	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/23/2025 19:28	61703	ELIZ_T1	0	0	0	0	0	0	-0.73	-0.92	1	1	0	900	900	0
1/23/2025 19:28	11104	EGYP_T1	1	76	75	0.3	0.3	0	0	0	0	0	0	0	0	0
1/23/2025 19:28	61701	ELIZ_T1	1	1	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
1/23/2025 19:28	43304	WATS_T2	4	27	23	0.2	0.33	0.13	0	0	0	0	0	0	0	0
1/23/2025 19:28	11103	EGYP_T1	5	5	0	5.26	4.14	-1.12	0	0	0	0	0	0	0	0
1/23/2025 19:28	64101	REFR_T1	0	0	0	0	0	0	0.24	0.18	0	0	0	0	0	0
1/23/2025 19:28	63302	GREE_T1	0	0	0	0	0	0	0.43	0.37	0	0	0	0	0	0
1/23/2025 19:28	56501	ROCK_T2	2	4	2	2.55	0.85	-1.7	-1.28	-1.29	0	0	0	0	0	0
1/23/2025 19:28	54503	ENOL_T2	0	0	0	0	0	0	-0.29	-0.25	1	1	0	600	600	0
1/23/2025 19:28	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:28	60803	BUCK_T1	5	7	2	0.32	0.24	-0.08	-0.42	-0.43	1	1	0	600	600	0
1/23/2025 19:28	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:28	13704	SCHN_T2	5	7	2	0.76	0.93	0.17	-0.61	-0.6	0	0	0	0	0	0
1/23/2025 19:29	60701	BREC_T1	36	26	-10	0.55	0.44	-0.11	-0.79	-0.85	2	2	0	1200	1200	0
1/23/2025 19:29	20603	GRWO_T2	48	47	-1	2.17	1.5	-0.67	0	0	0	0	0	0	0	0
1/23/2025 19:29	64101	REFR_T1	0	0	0	0	0	0	0.24	0.18	0	0	0	0	0	0
1/23/2025 19:29	20601	GRWO_T2	122	117	-5	0.92	0.87	-0.05	0.21	0.2	0	0	0	0	0	0
1/23/2025 19:29	46204	DANV_T2	8	6	-2	0.48	0.85	0.37	0	0	0	0	0	0	0	0
1/23/2025 19:29	46203	DANV_T2	14	36	22	0.73	0.66	-0.07	0	0	0	0	0	0	0	0
1/23/2025 19:29	46206	DANV_T2	0	1	1	0	0	0	1.62	1.61	2	2	0	2100	2100	0
1/23/2025 19:29	20602	GRWO_T2	11	11	0	1.77	1.31	-0.46	0	0	0	0	0	0	0	0
1/23/2025 19:30	53502	EVIL_T2	2	13	11	0.55	0.39	-0.16	0	0	0	0	0	0	0	0
1/23/2025 19:30	53501	EVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:30	55101	WERT_T1	0	0	0	0	0	0	-3.35	-3.39	4	4	0	3000	3000	0
1/23/2025 19:31	44901	SCOT_T2	32	49	17	0.18	0.22	0.04	-0.08	-0.14	0	0	0	0	0	0
1/23/2025 19:31	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:31	64101	REFR_T1	0	0	0	0	0	0	0.24	0.18	0	0	0	0	0	0
1/23/2025 19:31	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:31	67402	WAKE_T2	0	0	0	0	0	0	0.36	0.4	0	0	0	0	0	0
1/23/2025 19:31	43304	WATS_T2	10	27	17	0.34	0.33	-0.01	-0.26	-0.16	0	0	0	0	0	0
1/23/2025 19:31	44902	SCOT_T2	541	602	61	0.54	0.61	0.07	0	0	0	0	0	0	0	0
1/23/2025 19:32	51204	MTON_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
1/23/2025 19:32	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/23/2025 19:32	60801	BUCK_T1	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
1/23/2025 19:32	54504	ENOL_T2	0	0	0	0	0	0	-0.88	-0.88	1	1	0	600	600	0
1/23/2025 19:32	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:32	67401	WAKE_T2	0	0	0	0	0	0	-1.04	-1.03	0	0	0	0	0	0
1/23/2025 19:32	67402	WAKE_T2	0	0	0	0	0	0	0.36	0.4	0	0	0	0	0	0
1/23/2025 19:32	60803	BUCK_T1	4	9	5	0.25	0.27	0.02	0	0	0	0	0	0	0	0
1/23/2025 19:34	44905	SCOT_T1	5	9	4	0.72	0.4	-0.32	0	0	0	0	0	0	0	0
1/23/2025 19:34	61304	EARL_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
1/23/2025 19:35	64101	REFR_T1	0	0	0	0	0	0	0.24	0.18	0	0	0	0	0	0
1/23/2025 19:36	16101	BING_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/23/2025 19:36	16103	BING_T2	4	2	-2	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
1/23/2025 19:36	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 19:43	64305	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2025 20:00	64101	REFR_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
1/23/2025 20:22	14801	TREI_T2	5	2	-3	1.56	1	-0.56	0.97	1	0	0	0	0	0	0
1/23/2025 20:22	14802	TREI_T2	8	1	-7	0.48	0.6	0.12	0	0	0	0	0	0	0	0
1/24/2025 7:58	26704	HEML_T2	1	0	-1	1.7	0	-1.7	-0.3	-0.31	0	0	0	0	0	0
1/24/2025 8:14	45501	DERR_T2	19	15	-4	0.46	0.5	0.04	0.68	0.67	2	2	0	1800	1800	0
1/24/2025 8:14	45502	DERR_T2	22	13	-9	0.63	0.52	-0.11	0	0	0	0	0	0	0	0
1/24/2025 8:19	44701	MUNC_T2	10	9	-1	0.53	0.38	-0.15	0	0	0	0	0	0	0	0
1/24/2025 8:19	13503	MCMI_T2	3	13	10	0.27	0.25	-0.02	0.63	0.59	0	0	0	0	0	0
1/24/2025 8:19	44703	MUNC_T2	1	1	0	1	0	-1	0.66	0.69	0	0	0	0	0	0
1/24/2025 8:22	44703	MUNC_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
1/24/2025 8:22	44701	MUNC_T2	10	9	-1	0.53	0.38	-0.15	0	0	0	0	0	0	0	0
1/24/2025 8:24	16103	BING_T2	3	5	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
1/24/2025 8:24	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 8:24	16102	BING_T2	0	6	6	0	0.18	0.18	0	0	0	0	0	0	0	0
1/24/2025 8:32	20603	GRWO_T2	45	43	-2	1.65	2.1	0.45	0	0	0	0	0	0	0	0
1/24/2025 8:32	20602	GRWO_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 8:32	20601	GRWO_T2	25	30	5	0.62	0.56	-0.06	0.17	0.26	0	0	0	0	0	0
1/24/2025 8:36	13701	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/24/2025 8:36	13704	SCHN_T2	12	51	39	0.18	0.27	0.09	-1.78	-1.78	0	0	0	0	0	0
1/24/2025 8:38	45303	WBER_T2	1	1	0	9.2	9.1	-0.1	0	0	0	0	0	0	0	0
1/24/2025 8:38	45302	WBER_T2	7	3	-4	0.67	0.85	0.18	0.97	0.91	0	0	0	0	0	0
1/24/2025 8:41	55101	WERT_T1	0	0	0	0	0	0	-1.37	-1.47	2	2	0	1500	1500	0
1/24/2025 8:43	53502	EVIL_T2	3	15	12	1.87	0.75	-1.12	0	0	0	0	0	0	0	0
1/24/2025 8:43	53501	EVIL_T2	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
1/24/2025 8:44	45501	DERR_T2	9	9	0	0.44	0.23	-0.21	0.64	0.62	2	2	0	1800	1800	0
1/24/2025 8:44	45502	DERR_T2	6	5	-1	0.52	0	-0.52	0	0	0	0	0	0	0	0
1/24/2025 8:51	65702	RVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/24/2025 8:52	44905	SCOT_T1	5	16	11	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
1/24/2025 8:56	49803	UNIV_T1	8	1	-7	0.94	5.9	4.96	-0.67	-0.72	0	0	0	0	0	0
1/24/2025 8:56	49804	UNIV_T1	3	0	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/24/2025 8:57	46204	DANV_T2	118	104	-14	0.97	0.49	-0.48	0	0	0	0	0	0	0	0
1/24/2025 8:57	46203	DANV_T2	8	8	0	0.43	0.41	-0.02	-1.09	-1.11	0	0	0	0	0	0
1/24/2025 8:57	46206	DANV_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/24/2025 8:57	63801	HEMP_T1	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
1/24/2025 8:57	63804	HEMP_T1	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
1/24/2025 8:57	63803	HEMP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/24/2025 9:00	13503	MCMI_T2	3	1	-2	0.73	0	-0.73	1.11	1	0	0	0	0	0	0
1/24/2025 9:00	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 9:00	49803	UNIV_T1	1	1	0	5.9	6	0.1	-0.67	-0.72	0	0	0	0	0	0
1/24/2025 9:00	49804	UNIV_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 9:00	40504	CRES_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/24/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
1/24/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
1/24/2025 9:00	67502	WEWI_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
1/24/2025 9:04	66504	SMAN_T2	0	0	0	0	0	0	-1.3	-1.31	1	1	0	1200	1200	0
1/24/2025 9:04	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/24/2025 9:05	66503	SMAN_T2	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
1/24/2025 9:05	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/24/2025 9:06	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/24/2025 9:06	65702	RVIL_T2	0	0	0	0	0	0	-1.97	-1.85	1	1	0	600	600	0
1/24/2025 9:06	66504	SMAN_T2	0	0	0	0	0	0	-1.3	-1.31	1	1	0	1200	1200	0
1/24/2025 9:08	66504	SMAN_T2	0	0	0	0	0	0	-1.31	-1.29	1	1	0	1200	1200	0
1/24/2025 9:08	64305	LINC_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/24/2025 9:08	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/24/2025 9:09	59201	THOM_T1	17	18	1	0.49	0.44	-0.05	0	0	0	0	0	0	0	0
1/24/2025 9:09	59202	THOM_T1	76	112	36	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
1/24/2025 9:10	42701	AUGU_T1	3	1	-2	0.27	0.8	0.53	0	0	2	2	0	1800	1800	0
1/24/2025 9:10	45501	DERR_T2	7	3	-4	0.26	0.2	-0.06	0.6	0.59	2	2	0	1800	1800	0
1/24/2025 9:10	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 9:11	29402	BELT_T1	3	1	-2	1.53	4.5	2.97	0	0	0	0	0	0	0	0
1/24/2025 9:11	46206	DANV_T2	2	11	9	0.15	0.4	0.25	2.09	2.67	1	1	0	1200	1200	0
1/24/2025 9:11	46203	DANV_T2	6	7	1	0.25	0.43	0.18	0	0	0	0	0	0	0	0
1/24/2025 9:11	46204	DANV_T2	104	94	-10	0.63	0.4	-0.23	0	0	0	0	0	0	0	0
1/24/2025 9:11	42701	AUGU_T1	3	1	-2	0.27	0.8	0.53	0	0	0	0	0	0	0	0
1/24/2025 9:12	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 9:12	45501	DERR_T2	7	3	-4	0.26	0.2	-0.06	0.6	0.59	2	2	0	1800	1800	0
1/24/2025 9:14	46206	DANV_T2	2	11	9	0.15	0.4	0.25	2.09	2.67	1	1	0	1200	1200	0
1/24/2025 9:14	46203	DANV_T2	6	7	1	0.25	0.43	0.18	0	0	0	0	0	0	0	0
1/24/2025 9:14	46204	DANV_T2	104	94	-10	0.63	0.4	-0.23	0	0	0	0	0	0	0	0
1/24/2025 9:15	53502	EVIL_T2	2	2	0	2.8	2.6	-0.2	0	0	0	0	0	0	0	0
1/24/2025 9:15	53501	EVIL_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
1/24/2025 9:16	64203	KINZ_T1	4	11	7	0.28	0.63	0.35	0	0	0	0	0	0	0	0
1/24/2025 9:16	64201	KINZ_T1	0	0	0	0	0	0	0.05	-0.13	3	3	0	1500	1500	0
1/24/2025 9:16	64202	KINZ_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/24/2025 9:16	64204	KINZ_T1	21	12	-9	0.36	0.23	-0.13	0	0	0	0	0	0	0	0
1/24/2025 9:21	66903	SHIL_T2	0	0	0	0	0	0	-1.13	-1.12	0	0	0	0	0	0
1/24/2025 9:22	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 9:22	26704	HEML_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
1/24/2025 9:26	54503	ENOL_T2	0	0	0	0	0	0	-0.95	-0.78	1	1	0	600	600	0
1/24/2025 9:26	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/24/2025 9:26	10805	CHHI_T2	13	13	0	4.4	4.06	-0.34	-0.57	-0.61	1	1	0	600	600	0
1/24/2025 9:27	45501	DERR_T2	3	1	-2	0.63	1.1	0.47	0.59	0.49	2	2	0	1800	1800	0
1/24/2025 9:27	45502	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 9:28	60801	BUCK_T1	2	1	-1	0.1	0.2	0.1	0.12	0.26	0	0	0	0	0	0
1/24/2025 9:28	60803	BUCK_T1	19	20	1	0.63	0.52	-0.11	0	0	0	0	0	0	0	0
1/24/2025 9:28	63501	HEID_TBK1-2	41	66	25	0.36	0.35	-0.01	-0.31	-0.34	1	1	0	900	900	0
1/24/2025 9:29	20602	GRWO_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/24/2025 9:29	20603	GRWO_T2	47	47	0	2.44	2.37	-0.07	0	0	0	0	0	0	0	0
1/24/2025 9:29	20601	GRWO_T2	45	39	-6	0.57	0.55	-0.02	0.18	0.17	0	0	0	0	0	0
1/24/2025 9:32	13503	MCMI_T2	1	1	0	0.4	0	-0.4	0.5	0.48	0	0	0	0	0	0
1/24/2025 9:32	43202	MVIL_T2	41	57	16	0.28	0.77	0.49	-0.43	-0.43	0	0	0	0	0	0
1/24/2025 9:36	52502	PROG_T2	0	1	1	0	0	0	-0.32	-0.36	1	1	0	900	900	0
1/24/2025 9:38	52502	PROG_T2	0	1	1	0	0	0	-0.32	-0.36	1	1	0	900	900	0
1/24/2025 9:44	46203	DANV_T2	6	7	1	0.38	0.57	0.19	-2.38	-2.37	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/24/2025 9:44	46206	DANV_T2	11	11	0	0.33	0.17	-0.16	0	0	0	0	0	0	0	0
1/24/2025 9:44	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 9:44	46204	DANV_T2	15	40	25	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
1/24/2025 9:47	65502	MOJO_T2	0	0	0	0	0	0	-0.31	-1.22	1	1	0	900	900	0
1/24/2025 9:50	43202	MVIL_T2	53	57	4	0.42	0.77	0.35	-0.43	-0.49	0	0	0	0	0	0
1/24/2025 9:50	65502	MOJO_T2	0	0	0	0	0	0	-0.31	-1.22	1	1	0	900	900	0
1/24/2025 9:52	43202	MVIL_T2	53	57	4	0.42	0.77	0.35	-0.49	-0.47	0	0	0	0	0	0
1/24/2025 9:54	14602	SWHI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/24/2025 9:54	14605	SWHI_T1	3	0	-3	0.73	0	-0.73	0	0	0	0	0	0	0	0
1/24/2025 9:55	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 9:58	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 9:58	44302	BEAV_T2	3	41	38	0.17	0.26	0.09	0	0	0	0	0	0	0	0
1/24/2025 10:01	65401	MARI_T1	0	0	0	0	0	0	-0.05	-0.11	0	0	0	0	0	0
1/24/2025 10:03	51204	MTON_T2	0	0	0	0	0	0	0.31	0.34	0	0	0	0	0	0
1/24/2025 10:04	51202	MTON_T2	0	0	0	0	0	0	-0.91	-0.9	1	1	0	1200	1200	0
1/24/2025 10:11	61304	EARL_T1	0	0	0	0	0	0	-0.56	-0.59	1	1	0	600	600	0
1/24/2025 10:14	52003	LING_T1	1	0	-1	9.9	0	-9.9	0	0	0	0	0	0	0	0
1/24/2025 10:14	46203	DANV_T2	7	8	1	0.56	0.65	0.09	0	0	0	0	0	0	0	0
1/24/2025 10:14	46204	DANV_T2	21	57	36	0.36	0.44	0.08	0	0	0	0	0	0	0	0
1/24/2025 10:14	46206	DANV_T2	4	1	-3	0.18	0	-0.18	2.64	2.68	1	1	0	1200	1200	0
1/24/2025 10:14	52001	LING_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
1/24/2025 10:15	64204	KINZ_T1	2	11	9	0.45	0.31	-0.14	0	0	0	0	0	0	0	0
1/24/2025 10:15	64203	KINZ_T1	4	4	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
1/24/2025 10:19	56501	ROCK_T2	2	2	0	1.7	0.7	-1	-0.86	-0.87	0	0	0	0	0	0
1/24/2025 10:32	63501	HEID_TBK1-2	40	61	21	0.32	0.35	0.03	0	0	0	0	0	0	0	0
1/24/2025 10:44	61305	EARL_T1	0	0	0	0	0	0	0.49	0.51	1	1	0	900	900	0
1/24/2025 10:44	61304	EARL_T1	0	0	0	0	0	0	-0.65	-0.66	1	1	0	600	600	0
1/24/2025 10:45	61304	EARL_T1	0	0	0	0	0	0	-0.65	-0.66	1	1	0	600	600	0
1/24/2025 10:46	17401	FOHI_T1	0	0	0	0	0	0	-0.97	-0.99	0	0	0	0	0	0
1/24/2025 10:50	13302	ORVI_T2	26	27	1	0.31	0.34	0.03	0.34	0.28	0	0	0	0	0	0
1/24/2025 10:50	66502	SMAN_T2	1	1	0	0.3	0.2	-0.1	0.33	0.34	0	0	0	0	0	0
1/24/2025 10:50	66505	SMAN_T2	2	3	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/24/2025 10:51	52403	GRPA_T2	2	19	17	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
1/24/2025 10:51	52402	GRPA_T2	38	51	13	0.98	0.88	-0.1	0	0	0	0	0	0	0	0
1/24/2025 10:51	66502	SMAN_T2	1	1	0	0.3	0.2	-0.1	0.66	0.68	0	0	0	0	0	0
1/24/2025 10:51	52404	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/24/2025 10:51	52401	GRPA_T2	0	1	1	0	0.3	0.3	-0.42	-0.52	0	0	0	0	0	0
1/24/2025 10:51	66505	SMAN_T2	2	3	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/24/2025 10:54	66504	SMAN_T2	0	0	0	0	0	0	-0.18	-0.28	0	0	0	0	0	0
1/24/2025 10:54	66502	SMAN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/24/2025 10:54	66505	SMAN_T2	2	3	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/24/2025 10:55	60201	ATGL_T2	53	133	80	0.28	0.39	0.11	0	0	0	0	0	0	0	0
1/24/2025 10:57	60201	ATGL_T2	53	133	80	0.28	0.39	0.11	0.29	0.29	0	0	0	0	0	0
1/24/2025 10:58	56801	BENV_T1	4	6	2	0.45	0.67	0.22	-0.58	-0.59	1	1	0	600	600	0
1/24/2025 11:00	64101	REFR_T1	0	0	0	0	0	0	0.1	0.06	0	0	0	0	0	0
1/24/2025 11:04	41903	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/24/2025 11:04	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/24/2025 11:04	41902	REED_T1	0	1	1	0	6.9	6.9	0.54	0.47	1	1	0	900	900	0
1/24/2025 11:06	44601	SALE_T2	0	0	0	0	0	0	0.02	0.09	0	0	0	0	0	0
1/24/2025 11:07	59101	WALK_T2	1	1	0	4.7	1.2	-3.5	1.14	2.72	2	0	-2	1200	0	-1200
1/24/2025 11:07	44601	SALE_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
1/24/2025 11:08	66505	SMAN_T2	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/24/2025 11:08	66502	SMAN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/24/2025 11:08	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/24/2025 11:10	22002	BOHE_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
1/24/2025 11:10	59102	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 11:10	46203	DANV_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
1/24/2025 11:10	16103	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/24/2025 11:10	16102	BING_T2	2	1	-1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
1/24/2025 11:10	59101	WALK_T2	1	1	0	4.7	1.2	-3.5	0	0	0	0	0	0	0	0
1/24/2025 11:10	46204	DANV_T2	1	2	1	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/24/2025 11:13	60404	DILL_T2	0	0	0	0	0	0	0.11	0.17	1	1	0	1200	1200	0
1/24/2025 11:14	10801	CHHI_T1	2	1	-1	0.85	1.6	0.75	-2.28	-2.2	4	4	0	3000	3000	0
1/24/2025 11:15	61506	EPET_T2	0	0	0	0	0	0	-1.03	-1.11	0	0	0	0	0	0
1/24/2025 11:17	64801	MONE_T2	4	21	17	0.18	0.23	0.05	0	0	0	0	0	0	0	0
1/24/2025 11:17	64802	MONE_T2	4	100	96	0.18	0.22	0.04	0	0	0	0	0	0	0	0
1/24/2025 11:20	63306	GREE_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
1/24/2025 11:20	64801	MONE_T2	4	21	17	0.18	0.23	0.05	0	0	0	0	0	0	0	0
1/24/2025 11:20	63302	GREE_T1	0	0	0	0	0	0	0.67	0.61	0	0	0	0	0	0
1/24/2025 11:20	63305	GREE_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/24/2025 11:20	64802	MONE_T2	4	100	96	0.18	0.22	0.04	0.26	0.24	0	0	0	0	0	0
1/24/2025 11:21	66201	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 11:21	66203	SISP_T2	1	1	0	5.9	0.4	-5.5	0	0	0	0	0	0	0	0
1/24/2025 11:26	52502	PROG_T2	1	1	0	0.2	0.2	0	-0.42	-0.48	1	1	0	900	900	0
1/24/2025 11:26	45501	DERR_T2	0	0	0	0	0	0	0.36	0.26	2	2	0	1800	1800	0
1/24/2025 11:27	64101	REFR_T1	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
1/24/2025 11:29	61505	EPET_T1	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
1/24/2025 11:29	23401	HONE_T2	11	12	1	0.43	0.5	0.07	0.24	0.22	0	0	0	0	0	0
1/24/2025 11:29	45501	DERR_T2	0	0	0	0	0	0	0.36	0.26	2	2	0	1800	1800	0
1/24/2025 11:31	47202	FAXO_T2	0	0	0	0	0	0	-2.2	-2.23	0	0	0	0	0	0
1/24/2025 11:31	47203	FAXO_T2	1	1	0	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
1/24/2025 11:32	23401	HONE_T2	6	16	10	0.3	0.31	0.01	0.24	0.22	0	0	0	0	0	0
1/24/2025 11:33	52403	GRPA_T2	2	3	1	0.35	0.6	0.25	0	0	0	0	0	0	0	0
1/24/2025 11:33	52401	GRPA_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
1/24/2025 11:33	52404	GRPA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/24/2025 11:33	52402	GRPA_T2	25	21	-4	0.46	0.37	-0.09	0	0	0	0	0	0	0	0
1/24/2025 11:34	55002	NEWP_T1	4	5	1	0.55	0.72	0.17	-0.36	-0.36	0	0	0	0	0	0
1/24/2025 11:34	52403	GRPA_T2	2	3	1	0.35	0.6	0.25	0	0	0	0	0	0	0	0
1/24/2025 11:34	52404	GRPA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/24/2025 11:34	52402	GRPA_T2	25	21	-4	0.46	0.37	-0.09	0	0	0	0	0	0	0	0
1/24/2025 11:34	52401	GRPA_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
1/24/2025 11:35	57104	SPHI_T2	2	4	2	4.65	3.05	-1.6	0	0	0	0	0	0	0	0
1/24/2025 11:35	64904	MILL_T1	0	7	7	0	0.16	0.16	-0.12	-0.2	0	0	0	0	0	0
1/24/2025 11:35	66903	SHIL_T2	0	0	0	0	0	0	-1.15	-1.16	0	0	0	0	0	0
1/24/2025 11:35	57106	SPHI_T2	3	3	0	1.97	2.13	0.16	0	0	0	0	0	0	0	0
1/24/2025 11:35	57101	SPHI_T2	0	6	6	0	0.67	0.67	-0.97	-0.97	0	0	0	0	0	0
1/24/2025 11:35	64901	MILL_T1	24	51	27	0.21	0.26	0.05	0	0	0	0	0	0	0	0
1/24/2025 11:36	57104	SPHI_T2	2	4	2	4.65	3.05	-1.6	-1.77	-1.78	1	1	0	900	900	0
1/24/2025 11:36	57106	SPHI_T2	3	3	0	1.97	2.13	0.16	0	0	0	0	0	0	0	0
1/24/2025 11:36	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 11:36	57101	SPHI_T2	0	6	6	0	0.67	0.67	0	0	0	0	0	0	0	0
1/24/2025 11:37	43304	WATS_T2	0	0	0	0	0	0	-0.3	-0.33	0	0	0	0	0	0
1/24/2025 11:37	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/24/2025 11:38	43304	WATS_T2	0	0	0	0	0	0	-0.6	-0.66	0	0	0	0	0	0
1/24/2025 11:38	24202	PROV_T4	0	0	0	0	0	0	-0.63	-0.64	1	1	0	1200	1200	0
1/24/2025 11:38	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/24/2025 11:39	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/24/2025 11:39	43304	WATS_T2	0	0	0	0	0	0	-0.6	-0.66	0	0	0	0	0	0
1/24/2025 11:40	13701	SCHN_T2	0	0	0	0	0	0	0.05	0.07	1	1	0	600	600	0
1/24/2025 11:41	52204	DEVO_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
1/24/2025 11:41	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 11:42	60701	BREC_T1	0	0	0	0	0	0	-0.37	-0.37	1	1	0	600	600	0
1/24/2025 11:44	40702	FFLD_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
1/24/2025 11:44	40701	FFLD_T1	17	24	7	0.18	0.3	0.12	0	0	0	0	0	0	0	0
1/24/2025 11:44	40703	FFLD_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
1/24/2025 11:45	40703	FFLD_T1	3	4	1	0.17	0.28	0.11	0	0	0	0	0	0	0	0
1/24/2025 11:45	40701	FFLD_T1	21	28	7	0.28	0.4	0.12	0	0	0	0	0	0	0	0
1/24/2025 11:45	40101	HUNT_T2	113	122	9	1	1	0	-0.56	-0.59	0	0	0	0	0	0
1/24/2025 11:45	40702	FFLD_T1	2	13	11	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
1/24/2025 11:46	20603	GRWO_T2	45	46	1	1.54	1.61	0.07	0	0	0	0	0	0	0	0
1/24/2025 11:46	40701	FFLD_T1	21	28	7	0.28	0.4	0.12	0	0	0	0	0	0	0	0
1/24/2025 11:46	20601	GRWO_T2	56	52	-4	0.53	0.5	-0.03	0.25	0.34	0	0	0	0	0	0
1/24/2025 11:46	20602	GRWO_T2	9	18	9	0.36	0.56	0.2	0	0	0	0	0	0	0	0
1/24/2025 11:46	40702	FFLD_T1	2	13	11	0.3	0.18	-0.12	-0.58	-0.54	0	0	0	0	0	0
1/24/2025 11:46	40703	FFLD_T1	3	4	1	0.17	0.28	0.11	0	0	0	0	0	0	0	0
1/24/2025 11:50	15103	UPHA_T2	0	7	7	0	0.14	0.14	-0.78	-0.82	0	0	0	0	0	0
1/24/2025 11:53	64101	REFR_T1	0	0	0	0	0	0	0.04	-0.03	0	0	0	0	0	0
1/24/2025 11:55	41202	KENM_T2	1	1	0	0.4	0.4	0	-0.4	0.74	0	0	0	0	0	0
1/24/2025 11:58	41602	CLEV_T1	1	1	0	0.3	0	-0.3	0	0	1	1	0	600	600	0
1/24/2025 11:59	47203	FAXO_T2	1	1	0	1.4	1.4	0	-1.02	-1.03	0	0	0	0	0	0
1/24/2025 11:59	54504	ENOL_T2	0	0	0	0	0	0	-1.04	-0.99	1	1	0	600	600	0
1/24/2025 11:59	54505	ENOL_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
1/24/2025 11:59	54502	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/24/2025 12:00	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
1/24/2025 12:00	54504	ENOL_T2	0	0	0	0	0	0	-1.04	-0.99	1	1	0	600	600	0
1/24/2025 12:03	51202	MTON_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 12:04	13501	MCMI_T1	1	2	1	0.2	0.2	0	0.42	0.37	0	0	0	0	0	0
1/24/2025 12:04	55002	NEWP_T1	4	7	3	0.73	1.01	0.28	-0.2	-0.19	0	0	0	0	0	0
1/24/2025 12:05	52502	PROG_T2	1	0	-1	0.2	0	-0.2	-0.96	0.84	2	0	-2	1800	0	-1800
1/24/2025 12:05	51202	MTON_T2	0	0	0	0	0	0	-0.97	0.33	1	0	-1	1200	0	-1200
1/24/2025 12:06	67702	WERN_T2	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
1/24/2025 12:07	52402	GRPA_T2	18	11	-7	0.42	0.6	0.18	0	0	0	0	0	0	0	0
1/24/2025 12:07	52404	GRPA_T2	1	1	0	0.4	1.2	0.8	0	0	0	0	0	0	0	0
1/24/2025 12:07	67702	WERN_T2	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
1/24/2025 12:07	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/24/2025 12:07	52403	GRPA_T2	1	11	10	0.5	0.31	-0.19	-0.4	-0.39	0	0	0	0	0	0
1/24/2025 12:08	52502	PROG_T2	1	0	-1	0.2	0	-0.2	0.42	0.39	0	0	0	0	0	0
1/24/2025 12:08	11904	ETEX_T2	0	0	0	0	0	0	-0.69	-0.69	0	0	0	0	0	0
1/24/2025 12:09	45802	HEGI_T2	10	4	-6	0.48	0.15	-0.33	0.53	0.52	1	1	0	900	900	0
1/24/2025 12:09	29402	BELT_T1	1	1	0	6.2	5.5	-0.7	0	0	0	0	0	0	0	0
1/24/2025 12:10	67501	WEWI_T1	0	0	0	0	0	0	-0.95	-1.02	1	1	0	600	600	0
1/24/2025 12:10	29402	BELT_T1	1	1	0	6.2	5.5	-0.7	0	0	0	0	0	0	0	0
1/24/2025 12:10	45802	HEGI_T2	10	4	-6	0.48	0.15	-0.33	0.53	0.52	1	1	0	900	900	0
1/24/2025 12:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/24/2025 12:10	43301	WATS_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/24/2025 12:10	43304	WATS_T2	0	0	0	0	0	0	-0.29	-0.35	0	0	0	0	0	0
1/24/2025 12:11	41001	LAUR_T2	25	75	50	0.26	0.52	0.26	0	0	0	0	0	0	0	0
1/24/2025 12:11	60701	BREC_T1	0	0	0	0	0	0	-0.42	-0.44	1	1	0	600	600	0
1/24/2025 12:11	41002	LAUR_T2	4	37	33	0.65	0.31	-0.34	0	0	0	0	0	0	0	0
1/24/2025 12:12	43402	BENT_T1	8	28	20	0.43	0.22	-0.21	0.13	0.14	0	0	0	0	0	0
1/24/2025 12:12	60701	BREC_T1	0	0	0	0	0	0	-0.42	-0.44	1	1	0	600	600	0
1/24/2025 12:12	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 12:12	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/24/2025 12:12	61304	EARL_T1	11	0	-11	0.11	0	-0.11	0	0	0	0	0	0	0	0
1/24/2025 12:14	63501	HEID_TBK1-2	30	51	21	0.2	0.36	0.16	-0.45	-0.49	1	1	0	900	900	0
1/24/2025 12:14	45802	HEGI_T2	10	4	-6	0.48	0.15	-0.33	0	0	0	0	0	0	0	0
1/24/2025 12:14	60701	BREC_T1	0	0	0	0	0	0	-0.42	-0.44	1	1	0	600	600	0
1/24/2025 12:15	63501	HEID_TBK1-2	44	51	7	0.29	0.37	0.08	-0.9	-0.98	2	2	0	1800	1800	0
1/24/2025 12:17	65702	RVIL_T2	0	0	0	0	0	0	-1.95	-1.33	1	0	-1	600	0	-600
1/24/2025 12:22	66902	SHIL_T2	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
1/24/2025 12:27	61801	EELI_T2	4	4	0	0.55	0.68	0.13	0	0	0	0	0	0	0	0
1/24/2025 12:27	61802	EELI_T2	0	0	0	0	0	0	-0.22	-0.25	0	0	0	0	0	0
1/24/2025 12:28	49804	UNIV_T1	0	0	0	0	0	0	0.65	0.57	0	0	0	0	0	0
1/24/2025 12:28	49803	UNIV_T1	1	2	1	5.3	2.95	-2.35	0	0	0	0	0	0	0	0
1/24/2025 12:29	41002	LAUR_T2	12	37	25	0.36	0.31	-0.05	0.07	0.08	0	0	0	0	0	0
1/24/2025 12:29	41305	FISH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/24/2025 12:29	41301	FISH_T1	2	3	1	0.85	1.57	0.72	0	0	0	0	0	0	0	0
1/24/2025 12:29	41001	LAUR_T2	52	75	23	0.27	0.52	0.25	0	0	0	0	0	0	0	0
1/24/2025 12:30	54503	ENOL_T2	0	0	0	0	0	0	-0.36	-0.35	1	1	0	600	600	0
1/24/2025 12:30	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/24/2025 12:30	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
1/24/2025 12:35	65004	NEFF_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/24/2025 12:35	64101	REFR_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
1/24/2025 12:35	65001	NEFF_T2	83	171	88	0.13	0.17	0.04	-1.41	-1.69	2	2	0	2400	2400	0
1/24/2025 12:36	64101	REFR_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
1/24/2025 12:36	67702	WERN_T2	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
1/24/2025 12:37	55002	NEWP_T1	7	10	3	1.01	1	-0.01	-0.22	-0.2	0	0	0	0	0	0
1/24/2025 12:37	64101	REFR_T1	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
1/24/2025 12:38	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 12:38	14801	TREI_T2	0	0	0	0	0	0	0.67	0.63	0	0	0	0	0	0
1/24/2025 12:38	14802	TREI_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
1/24/2025 12:39	64101	REFR_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
1/24/2025 12:40	64101	REFR_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
1/24/2025 12:41	45801	HEGI_T1	0	0	0	0	0	0	-0.32	-0.25	1	1	0	900	900	0
1/24/2025 12:42	62105	ELAN_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
1/24/2025 12:42	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 12:42	62102	ELAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/24/2025 12:43	45501	DERR_T2	0	0	0	0	0	0	0.24	0.27	2	2	0	1800	1800	0
1/24/2025 12:45	20602	GRWO_T2	8	9	1	0.46	0.43	-0.03	0	0	0	0	0	0	0	0
1/24/2025 12:45	20601	GRWO_T2	3	1	-2	0.73	0.7	-0.03	0.26	0.31	0	0	0	0	0	0
1/24/2025 12:45	60901	DONG_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
1/24/2025 12:45	60902	DONG_T2	2	2	0	0.3	0.4	0.1	0.7	0.66	0	0	0	0	0	0
1/24/2025 12:45	20603	GRWO_T2	33	37	4	1.45	1.24	-0.21	0	0	0	0	0	0	0	0
1/24/2025 12:46	54502	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/24/2025 12:46	54506	ENOL_T2	0	0	0	0	0	0	0.34	0.26	1	1	0	600	600	0
1/24/2025 12:46	54505	ENOL_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
1/24/2025 12:48	61001	DONV_T1	0	1	1	0	1.2	1.2	-0.5	-0.26	0	0	0	0	0	0
1/24/2025 12:49	65702	RVIL_T2	0	0	0	0	0	0	-1.36	-1.41	0	0	0	0	0	0
1/24/2025 12:49	41903	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 12:49	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/24/2025 12:49	22602	KIMB_T1	0	0	0	0	0	0	0.2	0.14	0	0	0	0	0	0
1/24/2025 12:50	61001	DONV_T1	0	1	1	0	1.2	1.2	-0.25	-0.13	0	0	0	0	0	0
1/24/2025 12:51	66903	SHIL_T2	0	0	0	0	0	0	-1.12	-1.12	0	0	0	0	0	0
1/24/2025 12:52	43301	WATS_T2	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/24/2025 12:52	43304	WATS_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
1/24/2025 12:52	64101	REFR_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
1/24/2025 12:52	14802	TREI_T2	0	1	1	0	0.6	0.6	0.51	0.51	0	0	0	0	0	0
1/24/2025 12:53	54202	PENN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 12:53	54601	SUMM_T2	1	2	1	0.2	0.25	0.05	-1.75	-1.76	2	2	0	2100	2100	0
1/24/2025 12:53	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 12:57	46003	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/24/2025 12:57	46004	BERW_T2	1	6	5	0.2	0.2	0	-0.68	-0.7	0	0	0	0	0	0
1/24/2025 12:58	46004	BERW_T2	1	6	5	0.2	0.2	0	0	0	0	0	0	0	0	0
1/24/2025 12:58	46002	BERW_T2	0	0	0	0	0	0	0.24	0.2	0	0	0	0	0	0
1/24/2025 12:58	46003	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/24/2025 13:02	11202	ELHE_T2	0	0	0	0	0	0	0.46	0.48	1	1	0	1200	1200	0
1/24/2025 13:02	67703	WERN_T2	0	0	0	0	0	0	-0.87	-0.18	1	1	0	900	900	0
1/24/2025 13:04	47502	NECO_T1	2	5	3	0.3	0.2	-0.1	3.88	3.79	0	0	0	0	0	0
1/24/2025 13:06	54602	SUMM_T2	0	0	0	0	0	0	-2.36	-2.34	1	1	0	600	600	0
1/24/2025 13:06	65702	RVIL_T2	0	0	0	0	0	0	-1.41	-1.45	0	0	0	0	0	0
1/24/2025 13:06	54601	SUMM_T2	1	4	3	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
1/24/2025 13:06	22602	KIMB_T1	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
1/24/2025 13:08	20403	ASHF_T2	1	2	1	0.2	0.15	-0.05	0.32	0.35	0	0	0	0	0	0
1/24/2025 13:08	20402	ASHF_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/24/2025 13:08	20401	ASHF_T2	7	7	0	0.71	0.82	0.11	0	0	0	0	0	0	0	0
1/24/2025 13:08	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
1/24/2025 13:09	54601	SUMM_T2	1	4	3	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
1/24/2025 13:09	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
1/24/2025 13:09	54603	SUMM_T2	0	0	0	0	0	0	-0.37	-0.33	1	1	0	900	900	0
1/24/2025 13:10	20403	ASHF_T2	1	2	1	0.2	0.15	-0.05	0.32	0.35	0	0	0	0	0	0
1/24/2025 13:10	20401	ASHF_T2	7	7	0	0.71	0.82	0.11	0	0	0	0	0	0	0	0
1/24/2025 13:10	20402	ASHF_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/24/2025 13:11	43301	WATS_T2	2	2	0	0.55	0.55	0	0.25	0.21	0	0	0	0	0	0
1/24/2025 13:14	54601	SUMM_T2	1	4	3	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
1/24/2025 13:14	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/24/2025 13:14	54505	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
1/24/2025 13:14	46803	HEPB_T2	1	0	-1	0.2	0	-0.2	0.54	0.55	0	0	0	0	0	0
1/24/2025 13:14	54506	ENOL_T2	0	0	0	0	0	0	0.33	0.35	1	1	0	600	600	0
1/24/2025 13:14	46801	HEPB_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/24/2025 13:14	54603	SUMM_T2	0	0	0	0	0	0	-0.37	-0.33	1	1	0	900	900	0
1/24/2025 13:16	46506	LOHA_T1	4	4	0	2.58	2.03	-0.55	0	0	0	0	0	0	0	0
1/24/2025 13:16	46504	LOHA_T1	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
1/24/2025 13:16	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
1/24/2025 13:16	46501	LOHA_T1	1	1	0	1	2.2	1.2	0	0	0	0	0	0	0	0
1/24/2025 13:17	52402	GRPA_T2	9	6	-3	0.44	0.27	-0.17	0	0	0	0	0	0	0	0
1/24/2025 13:17	52403	GRPA_T2	17	18	1	0.55	0.38	-0.17	0	0	0	0	0	0	0	0
1/24/2025 13:17	52404	GRPA_T2	1	2	1	1.8	1	-0.8	0	0	0	0	0	0	0	0
1/24/2025 13:17	46802	HEPB_T1	15	2	-13	0.35	0.8	0.45	-1.21	-1.21	0	0	0	0	0	0
1/24/2025 13:17	52401	GRPA_T2	2	1	-1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
1/24/2025 13:18	46506	LOHA_T1	4	4	0	2.58	2.03	-0.55	0	0	0	0	0	0	0	0
1/24/2025 13:18	46504	LOHA_T1	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
1/24/2025 13:18	46501	LOHA_T1	1	1	0	1	2.2	1.2	0	0	0	0	0	0	0	0
1/24/2025 13:18	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
1/24/2025 13:20	44201	POIN_T1	95	0	-95	0.29	0	-0.29	-2.04	-2.01	2	2	0	2100	2100	0
1/24/2025 13:20	52501	PROG_T1	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
1/24/2025 13:22	44201	POIN_T1	95	0	-95	0.29	0	-0.29	-2.01	-1.96	2	2	0	2100	2100	0
1/24/2025 13:22	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 13:23	63501	HEID_TBK1-2	51	53	2	0.38	0.47	0.09	-0.44	-0.4	1	1	0	900	900	0
1/24/2025 13:23	67401	WAKE_T2	198	290	92	0.44	0.47	0.03	-1	-1.04	0	0	0	0	0	0
1/24/2025 13:23	67402	WAKE_T2	22	64	42	0.23	0.26	0.03	0	0	0	0	0	0	0	0
1/24/2025 13:24	64305	LINC_T1	2	2	0	0.35	0.3	-0.05	-0.38	-0.44	0	0	0	0	0	0
1/24/2025 13:27	67303	WYOM_T2	0	0	0	0	0	0	0.43	0.47	0	0	0	0	0	0
1/24/2025 13:30	51604	DUKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 13:31	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 13:31	62102	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/24/2025 13:31	62105	ELAN_T1	0	0	0	0	0	0	0.51	0.48	0	0	0	0	0	0
1/24/2025 13:32	65401	MARI_T1	0	0	0	0	0	0	-0.17	-0.23	0	0	0	0	0	0
1/24/2025 13:48	52401	GRPA_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
1/24/2025 13:48	52404	GRPA_T2	1	2	1	1.7	1.1	-0.6	-0.14	-0.14	0	0	0	0	0	0
1/24/2025 13:48	52402	GRPA_T2	4	16	12	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
1/24/2025 13:48	52403	GRPA_T2	10	77	67	0.32	0.37	0.05	0	0	0	0	0	0	0	0
1/24/2025 13:49	43801	SWIL_T1	1	2	1	5	4.9	-0.1	0	0	0	0	0	0	0	0
1/24/2025 13:49	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 13:51	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
1/24/2025 13:54	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 13:55	58401	MORO_T1	0	0	0	0	0	0	-0.96	-0.97	1	1	0	600	600	0
1/24/2025 13:55	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
1/24/2025 13:56	58706	ROSE_T2	1	1	0	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
1/24/2025 13:56	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 13:56	58701	ROSE_T2	0	0	0	0	0	0	-1.56	-1.54	1	1	0	600	600	0
1/24/2025 13:56	58705	ROSE_T2	5	5	0	2.24	2.36	0.12	0	0	0	0	0	0	0	0
1/24/2025 13:56	44302	BEAV_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/24/2025 13:57	61303	EARL_T1	0	0	0	0	0	0	0.46	0.43	0	0	0	0	0	0
1/24/2025 13:59	40801	EXCH_T2	2	2	0	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
1/24/2025 13:59	40802	EXCH_T2	4	0	-4	0.15	0	-0.15	-0.22	-0.32	0	0	0	0	0	0
1/24/2025 14:00	61303	EARL_T1	0	0	0	0	0	0	0.46	0.43	0	0	0	0	0	0
1/24/2025 14:06	54701	NEBL_T1	9	15	6	1.14	0.77	-0.37	0	0	0	0	0	0	0	0
1/24/2025 14:06	64101	REFR_T1	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
1/24/2025 14:07	67702	WERN_T2	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
1/24/2025 14:13	61701	ELIZ_T1	1	1	0	5	5.4	0.4	0	0	0	0	0	0	0	0
1/24/2025 14:13	61703	ELIZ_T1	0	1	1	0	0.1	0.1	-1.74	-1.72	2	2	0	1800	1800	0
1/24/2025 14:15	61703	ELIZ_T1	1	0	-1	0.1	0	-0.1	-0.87	-0.86	1	1	0	900	900	0
1/24/2025 14:15	61701	ELIZ_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
1/24/2025 14:16	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	-1.23	-1.25	1	1	0	600	600	0
1/24/2025 14:18	67604	WARW_T1	0	0	0	0	0	0	0.13	0.03	0	0	0	0	0	0
1/24/2025 14:18	67605	WARW_T1	3	5	2	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
1/24/2025 14:19	46302	ROHR_T1	200	216	16	0.94	1.05	0.11	0	0	0	0	0	0	0	0
1/24/2025 14:19	65401	MARI_T1	0	0	0	0	0	0	-0.19	-0.16	0	0	0	0	0	0
1/24/2025 14:19	46301	ROHR_T1	440	437	-3	1.3	1.36	0.06	0.33	0.3	0	0	0	0	0	0
1/24/2025 14:21	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
1/24/2025 14:24	46302	ROHR_T1	200	216	16	0.94	1.05	0.11	0	0	0	0	0	0	0	0
1/24/2025 14:24	46301	ROHR_T1	440	437	-3	1.3	1.36	0.06	0.3	0.29	0	0	0	0	0	0
1/24/2025 14:35	24201	PROV_T3	4	5	1	3.95	5.37	1.42	-1.36	-1.36	1	1	0	1200	1200	0
1/24/2025 14:35	24204	PROV_T3	2	2	0	2.9	2.9	0	0	0	0	0	0	0	0	0
1/24/2025 14:37	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
1/24/2025 14:38	55105	WERT_T1	0	0	0	0	0	0	-0.51	-0.5	1	1	0	900	900	0
1/24/2025 14:39	44301	BEAV_T2	3	9	6	0.13	0.44	0.31	0	0	0	0	0	0	0	0
1/24/2025 14:39	44302	BEAV_T2	43	166	123	0.25	0.31	0.06	0.31	0.28	0	0	0	0	0	0
1/24/2025 14:40	44302	BEAV_T2	43	166	123	0.25	0.31	0.06	0	0	0	0	0	0	0	0
1/24/2025 14:40	44301	BEAV_T2	3	9	6	0.13	0.44	0.31	0	0	0	0	0	0	0	0
1/24/2025 14:41	44301	BEAV_T2	3	9	6	0.13	0.44	0.31	0	0	0	0	0	0	0	0
1/24/2025 14:41	44302	BEAV_T2	43	166	123	0.25	0.31	0.06	0.31	0.28	0	0	0	0	0	0
1/24/2025 14:42	44301	BEAV_T2	3	9	6	0.13	0.44	0.31	0	0	0	0	0	0	0	0
1/24/2025 14:42	44302	BEAV_T2	43	166	123	0.25	0.31	0.06	0.31	0.28	0	0	0	0	0	0
1/24/2025 14:43	61304	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 14:46	21504	CEAV_T1	0	0	0	0	0	0	-0.91	-0.91	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/24/2025 14:56	29201	APPE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 14:56	44301	BEAV_T2	9	11	2	0.44	0.51	0.07	0	0	0	0	0	0	0	0
1/24/2025 14:56	10602	BLGL_T2	1	1	0	8.4	9.7	1.3	0.37	0.34	0	0	0	0	0	0
1/24/2025 14:56	59102	WALK_T2	48	90	42	0.28	0.66	0.38	0.41	0.4	0	0	0	0	0	0
1/24/2025 14:56	59101	WALK_T2	1	9	8	5.4	0.37	-5.03	0	0	0	0	0	0	0	0
1/24/2025 14:56	44302	BEAV_T2	163	242	79	0.31	0.35	0.04	0	0	0	0	0	0	0	0
1/24/2025 14:57	40201	BEGA_T2	3	5	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/24/2025 15:01	61304	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/24/2025 15:01	61306	EARL_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
1/24/2025 15:07	43304	WATS_T2	0	0	0	0	0	0	-0.47	-0.76	0	0	0	0	0	0
1/24/2025 15:08	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 15:09	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 15:10	43304	WATS_T2	0	0	0	0	0	0	-0.47	-0.76	0	0	0	0	0	0
1/24/2025 15:13	46004	BERW_T2	2	4	2	0.2	0.78	0.58	-0.71	-0.66	0	0	0	0	0	0
1/24/2025 15:13	46003	BERW_T2	4	3	-1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
1/24/2025 15:13	46002	BERW_T2	3	2	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
1/24/2025 15:26	60701	BREC_T1	1	1	0	0.2	0.1	-0.1	-0.46	-0.48	1	1	0	600	600	0
1/24/2025 15:27	60701	BREC_T1	1	1	0	0.2	0.1	-0.1	-0.46	-0.48	1	1	0	600	600	0
1/24/2025 15:29	60701	BREC_T1	1	1	0	0.2	0.1	-0.1	-0.46	-0.48	1	1	0	600	600	0
1/24/2025 15:30	60701	BREC_T1	0	1	1	0	0.1	0.1	-0.46	-0.48	1	1	0	600	600	0
1/24/2025 15:33	43202	MVIL_T2	168	142	-26	0.64	0.71	0.07	-0.51	-0.52	0	0	0	0	0	0
1/24/2025 15:33	43201	MVIL_T2	65	39	-26	0.24	0.14	-0.1	0	0	0	0	0	0	0	0
1/24/2025 15:36	61001	DONV_T1	0	0	0	0	0	0	-0.18	-0.29	0	0	0	0	0	0
1/24/2025 15:36	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/24/2025 15:36	14603	SWHI_T1	0	0	0	0	0	0	-0.96	-0.95	1	1	0	600	600	0
1/24/2025 15:36	14605	SWHI_T1	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
1/24/2025 15:38	14605	SWHI_T1	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
1/24/2025 15:38	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/24/2025 15:38	14603	SWHI_T1	0	0	0	0	0	0	-0.96	-0.95	1	1	0	600	600	0
1/24/2025 15:47	61301	EARL_T1	0	0	0	0	0	0	0.24	0.21	0	0	0	0	0	0
1/24/2025 15:57	46203	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 15:57	46206	DANV_T2	0	0	0	0	0	0	0.53	0.69	2	2	0	2100	2100	0
1/24/2025 16:10	67401	WAKE_T2	150	112	-38	0.31	0.31	0	0	0	0	0	0	0	0	0
1/24/2025 16:10	67402	WAKE_T2	0	1	1	0	0.2	0.2	0.3	0.32	0	0	0	0	0	0
1/24/2025 16:11	67401	WAKE_T2	150	112	-38	0.31	0.31	0	0	0	0	0	0	0	0	0
1/24/2025 16:11	67402	WAKE_T2	0	1	1	0	0.2	0.2	0.6	0.64	0	0	0	0	0	0
1/24/2025 16:28	44302	BEAV_T2	12	82	70	0.17	0.23	0.06	0	0	0	0	0	0	0	0
1/24/2025 16:28	44301	BEAV_T2	4	9	5	0.2	0.32	0.12	-0.46	-0.54	1	1	0	600	600	0
1/24/2025 16:30	60404	DILL_T2	0	0	0	0	0	0	-0.22	-0.25	1	1	0	1200	1200	0
1/24/2025 16:34	47104	MARL_T1	9	10	1	0.24	0.58	0.34	0	0	0	0	0	0	0	0
1/24/2025 16:34	40101	HUNT_T2	77	166	89	1	1.1	0.1	-0.64	-0.62	0	0	0	0	0	0
1/24/2025 16:34	47101	MARL_T1	183	300	117	1.37	1.22	-0.15	-2.12	-1.98	2	2	0	1200	1200	0
1/24/2025 16:39	67001	STHI_T2	1	1	0	0.8	0.7	-0.1	0.15	0.15	0	0	0	0	0	0
1/24/2025 16:44	61302	EARL_T1	0	0	0	0	0	0	0.4	0.41	1	1	0	1200	1200	0
1/24/2025 16:50	59402	RFLD_T2	0	0	0	0	0	0	-0.82	-0.83	1	1	0	450	450	0
1/24/2025 18:15	45501	DERR_T2	2	2	0	0.35	0.1	-0.25	0.36	0.33	2	2	0	1800	1800	0
1/24/2025 18:46	67501	WEWI_T1	0	0	0	0	0	0	-1.02	-1.08	1	1	0	600	600	0
1/24/2025 18:57	22002	BOHE_T1	0	0	0	0	0	0	0.42	0.47	0	0	0	0	0	0
1/24/2025 19:03	56801	BENV_T1	6	11	5	0.32	0.19	-0.13	-0.43	-0.44	1	1	0	600	600	0
1/24/2025 19:03	56803	BENV_T1	1	3	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
1/24/2025 19:05	26702	HEML_T2	3	0	-3	0.53	0	-0.53	0	0	0	0	0	0	0	0
1/24/2025 19:05	26704	HEML_T2	0	0	0	0	0	0	-0.32	-0.3	0	0	0	0	0	0
1/24/2025 19:08	24205	PROV_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/24/2025 19:08	24204	PROV_T3	2	2	0	2.85	2.85	0	0	0	0	0	0	0	0	0
1/24/2025 19:08	24201	PROV_T3	3	3	0	6.07	5.67	-0.4	-1.3	-1.3	1	1	0	1200	1200	0
1/24/2025 19:09	23402	HONE_T2	2	4	2	0.3	1	0.7	0	0	0	0	0	0	0	0
1/24/2025 19:09	23401	HONE_T2	58	57	-1	0.58	0.55	-0.03	0.12	0.1	0	0	0	0	0	0
1/24/2025 19:11	24202	PROV_T4	0	0	0	0	0	0	-0.71	-0.72	1	1	0	1200	1200	0
1/24/2025 19:11	46004	BERW_T2	18	22	4	0.97	0.74	-0.23	0	0	0	0	0	0	0	0
1/24/2025 19:11	46002	BERW_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
1/24/2025 19:12	63501	HEID_TBK1-2	10	56	46	0.33	0.35	0.02	-0.35	-0.4	1	1	0	900	900	0
1/24/2025 19:12	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/24/2025 19:12	13302	ORVI_T2	13	14	1	0.28	0.29	0.01	0.29	0.39	0	0	0	0	0	0
1/24/2025 19:12	10602	BLGL_T2	1	1	0	6.8	5.8	-1	0.54	0.52	0	0	0	0	0	0
1/24/2025 19:12	29402	BELT_T1	2	26	24	3.15	1.65	-1.5	0	0	0	0	0	0	0	0
1/24/2025 19:14	14801	TREI_T2	2	4	2	0.3	0.4	0.1	0.87	0.81	0	0	0	0	0	0
1/24/2025 19:14	10805	OHHI_T2	7	6	-1	3.04	8.2	5.16	-0.54	-0.53	1	1	0	600	600	0
1/24/2025 19:14	13704	SCHN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:14	21504	CEAV_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
1/24/2025 19:14	66903	SHIL_T2	0	0	0	0	0	0	-1.21	-1.22	0	0	0	0	0	0
1/24/2025 19:14	14802	TREI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/24/2025 19:14	40802	EXCH_T2	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
1/24/2025 19:14	29402	BELT_T1	2	26	24	3.15	1.65	-1.5	0	0	0	0	0	0	0	0
1/24/2025 19:14	14602	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/24/2025 19:14	13701	SCHN_T2	0	0	0	0	0	0	0.06	0.09	1	1	0	600	600	0
1/24/2025 19:16	46206	DANV_T2	0	0	0	0	0	0	0.99	1.17	2	2	0	2100	2100	0
1/24/2025 19:16	46203	DANV_T2	22	10	-12	0.6	0.84	0.24	0	0	0	0	0	0	0	0
1/24/2025 19:16	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:17	47104	MARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/24/2025 19:17	47203	FAXO_T2	1	1	0	2.1	1.8	-0.3	-1.04	-1.04	0	0	0	0	0	0
1/24/2025 19:17	47101	MARL_T1	183	205	22	1.5	1.48	-0.02	-1.78	-1.71	1	1	0	600	600	0
1/24/2025 19:17	65702	RVIL_T2	0	0	0	0	0	0	-1.42	-1.46	0	0	0	0	0	0
1/24/2025 19:17	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:17	44201	POIN_T1	0	8	8	0	0.1	0.1	-2.03	-1.97	2	2	0	2100	2100	0
1/24/2025 19:17	45801	HEGI_T1	0	0	0	0	0	0	-0.33	-0.35	1	1	0	900	900	0
1/24/2025 19:17	43801	SWIL_T1	5	3	-2	1.26	1.97	0.71	0	0	0	0	0	0	0	0
1/24/2025 19:18	41301	FISH_T1	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
1/24/2025 19:18	57106	SPHI_T2	3	3	0	1.23	1.37	0.14	0	0	0	0	0	0	0	0
1/24/2025 19:18	14802	TREI_T2	1	1	0	0.2	0	-0.2	0.7	0.7	0	0	0	0	0	0
1/24/2025 19:18	51202	MTON_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:18	61506	EPET_T2	0	7	7	0	0.13	0.13	-1.41	-1.31	0	0	0	0	0	0
1/24/2025 19:18	54701	NEBL_T1	11	16	5	0.87	0.83	-0.04	0	0	0	0	0	0	0	0
1/24/2025 19:18	41202	KENM_T2	0	0	0	0	0	0	0.69	0.71	0	0	0	0	0	0
1/24/2025 19:18	14603	SWHI_T1	0	0	0	0	0	0	-1.51	-1.5	2	2	0	1200	1200	0
1/24/2025 19:18	14801	TREI_T2	4	2	-2	0.78	0.1	-0.68	0	0	0	0	0	0	0	0
1/24/2025 19:18	57104	SPHI_T2	1	5	4	2.5	1.25	-1.25	-1.77	-1.77	1	1	0	900	900	0
1/24/2025 19:18	14602	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/24/2025 19:18	17401	FOHI_T1	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
1/24/2025 19:18	11904	ETEX_T2	0	0	0	0	0	0	-0.67	-0.71	0	0	0	0	0	0
1/24/2025 19:18	61306	EARL_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
1/24/2025 19:18	15103	UPHA_T2	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
1/24/2025 19:18	10801	OHHI_T1	0	1	1	0	0.7	0.7	-1.35	-1.31	2	2	0	1500	1500	0
1/24/2025 19:19	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:19	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
1/24/2025 19:19	64203	KINZ_T1	6	6	0	1.02	0.32	-0.7	0	0	0	0	0	0	0	0
1/24/2025 19:19	64204	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/24/2025 19:19	42701	AUGU_T1	4	4	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
1/24/2025 19:19	65401	MARI_T1	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
1/24/2025 19:19	43202	MVIL_T2	59	53	-6	0.33	0.3	-0.03	-0.53	-0.51	0	0	0	0	0	0
1/24/2025 19:19	64101	REFR_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
1/24/2025 19:19	60701	BREC_T1	1	6	5	0.4	0.32	-0.08	-0.34	-0.32	1	1	0	600	600	0
1/24/2025 19:19	60201	ATGL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/24/2025 19:19	65001	NEFF_T2	210	225	15	0.26	0.39	0.13	-1.24	-1.27	1	1	0	1200	1200	0
1/24/2025 19:19	66505	SMAN_T2	3	3	0	0.27	0.5	0.23	0	0	0	0	0	0	0	0
1/24/2025 19:19	64201	KINZ_T1	0	0	0	0	0	0	0.47	0.37	2	2	0	600	600	0
1/24/2025 19:20	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:20	66505	SMAN_T2	3	3	0	0.27	0.5	0.23	0	0	0	0	0	0	0	0
1/24/2025 19:20	63501	HEID_TBK1-2	51	51	0	0.36	0.34	-0.02	-0.7	-0.8	2	2	0	1800	1800	0
1/24/2025 19:20	66504	SMAN_T2	0	0	0	0	0	0	-0.31	-0.26	0	0	0	0	0	0
1/24/2025 19:20	62105	ELAN_T1	0	2	2	0	0.1	0.1	0.57	0.56	0	0	0	0	0	0
1/24/2025 19:21	46203	DANV_T2	22	10	-12	0.6	0.84	0.24	0	0	0	0	0	0	0	0
1/24/2025 19:21	46802	HEPB_T1	1	1	0	0.8	1	0.2	-1.1	-1	0	0	0	0	0	0
1/24/2025 19:21	46206	DANV_T2	0	0	0	0	0	0	0.99	1.17	2	2	0	2100	2100	0
1/24/2025 19:21	67303	WYOM_T2	0	0	0	0	0	0	-0.49	-0.48	0	0	0	0	0	0
1/24/2025 19:21	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:22	13503	MCMI_T2	2	1	-1	0.45	0	-0.45	0.5	0.5	0	0	0	0	0	0
1/24/2025 19:22	65702	RVIL_T2	0	0	0	0	0	0	-1.46	-1.42	0	0	0	0	0	0
1/24/2025 19:22	61703	ELIZ_T1	0	0	0	0	0	0	-0.86	-0.62	1	1	0	900	900	0
1/24/2025 19:22	67702	WERN_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
1/24/2025 19:22	46801	HEPB_T2	16	18	2	0.31	0.34	0.03	0	0	0	0	0	0	0	0
1/24/2025 19:22	20402	ASHF_T2	2	4	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
1/24/2025 19:22	64101	REFR_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
1/24/2025 19:22	55002	NEWP_T1	3	4	1	0.47	0.75	0.28	-0.16	-0.14	0	0	0	0	0	0
1/24/2025 19:22	66502	SMAN_T2	0	0	0	0	0	0	-0.09	-0.04	0	0	0	0	0	0
1/24/2025 19:22	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:22	66504	SMAN_T2	0	0	0	0	0	0	0.38	0.42	0	0	0	0	0	0
1/24/2025 19:22	61302	EARL_T1	0	0	0	0	0	0	0.16	1.5	1	0	-1	1200	0	-1200
1/24/2025 19:22	67604	WARW_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
1/24/2025 19:22	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:22	61701	ELIZ_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
1/24/2025 19:22	66504	SMAN_T2	0	0	0	0	0	0	-0.26	-0.3	0	0	0	0	0	0
1/24/2025 19:22	20403	ASHF_T2	0	0	0	0	0	0	0.69	0.72	0	0	0	0	0	0
1/24/2025 19:22	46004	BERW_T2	18	23	5	0.77	1.02	0.25	-0.65	-0.64	0	0	0	0	0	0
1/24/2025 19:22	46803	HEPB_T2	3	4	1	0.2	0.2	0	0.54	0.54	0	0	0	0	0	0
1/24/2025 19:22	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:22	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:22	66505	SMAN_T2	3	3	0	0.27	0.5	0.23	0	0	0	0	0	0	0	0
1/24/2025 19:22	20401	ASHF_T2	5	3	-2	0.36	0.2	-0.16	0	0	0	0	0	0	0	0
1/24/2025 19:22	63501	HEID_TBK1-2	51	51	0	0.36	0.34	-0.02	-0.4	-0.38	1	1	0	900	900	0
1/24/2025 19:22	60701	BREC_T1	1	6	5	0.4	0.32	-0.08	-0.32	-0.32	1	1	0	600	600	0
1/24/2025 19:23	43301	WATS_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
1/24/2025 19:23	44601	SALE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:23	65401	MARI_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
1/24/2025 19:23	52404	GRPA_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
1/24/2025 19:23	45501	DERR_T2	3	5	2	0.63	0.4	-0.23	0.36	0.35	2	2	0	1800	1800	0
1/24/2025 19:23	43304	WATS_T2	8	19	11	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
1/24/2025 19:23	61304	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:23	52402	GRPA_T2	25	40	15	0.5	0.31	-0.19	0	0	0	0	0	0	0	0
1/24/2025 19:23	13503	MCMI_T2	2	1	-1	0.45	0	-0.45	1	1	0	0	0	0	0	0
1/24/2025 19:23	52401	GRPA_T2	1	8	7	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
1/24/2025 19:23	52403	GRPA_T2	12	24	12	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
1/24/2025 19:23	22602	KIMB_T1	0	0	0	0	0	0	0.17	0.23	0	0	0	0	0	0
1/24/2025 19:23	54505	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/24/2025 19:23	45502	DERR_T2	2	1	-1	1.05	0	-1.05	0	0	0	0	0	0	0	0
1/24/2025 19:23	54506	ENOL_T2	0	0	0	0	0	0	0.38	0.5	1	1	0	600	600	0
1/24/2025 19:24	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:24	14602	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/24/2025 19:24	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:24	46302	ROHR_T1	128	134	6	0.4	0.39	-0.01	0	0	0	0	0	0	0	0
1/24/2025 19:24	40701	FFLD_T1	6	9	3	0.13	0.13	0	0	0	0	0	0	0	0	0
1/24/2025 19:24	67402	WAKE_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
1/24/2025 19:24	67401	WAKE_T2	16	12	-4	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
1/24/2025 19:24	41902	REED_T1	20	41	21	0.61	0.46	-0.15	0	0	0	0	0	0	0	0
1/24/2025 19:24	65502	MOXO_T2	0	0	0	0	0	0	-0.87	-0.82	0	0	0	0	0	0
1/24/2025 19:24	41903	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:24	61303	EARL_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
1/24/2025 19:24	51604	DUKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:24	43402	BENT_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
1/24/2025 19:24	40702	FFLD_T1	1	0	-1	0.1	0	-0.1	-0.17	-0.17	0	0	0	0	0	0
1/24/2025 19:24	46301	ROHR_T1	312	320	8	0.98	1.04	0.06	0.3	0.31	0	0	0	0	0	0
1/24/2025 19:24	60902	DONG_T2	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
1/24/2025 19:24	52204	DEVO_T2	1	4	3	0.1	0.63	0.53	0	0	0	0	0	0	0	0
1/24/2025 19:24	45501	DERR_T2	3	5	2	0.63	0.4	-0.23	0.36	0.35	2	2	0	1800	1800	0
1/24/2025 19:24	63501	HEID_TBK1-2	51	51	0	0.36	0.34	-0.02	-0.4	-0.38	1	1	0	900	900	0
1/24/2025 19:24	61301	EARL_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
1/24/2025 19:24	14603	SWHI_T1	0	0	0	0	0	0	-1.5	-1.5	2	2	0	1200	1200	0
1/24/2025 19:24	40101	HUNT_T2	182	171	-11	1.09	0.93	-0.16	-0.64	-0.62	0	0	0	0	0	0
1/24/2025 19:24	29201	APPE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:24	44601	SALE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:24	45502	DERR_T2	2	1	-1	1.05	0	-1.05	0	0	0	0	0	0	0	0
1/24/2025 19:24	23402	HONE_T2	3	4	1	1	0	-1	0	0	0	0	0	0	0	0
1/24/2025 19:24	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:24	11202	ELHE_T2	0	0	0	0	0	0	0.47	0.49	1	1	0	1200	1200	0
1/24/2025 19:24	23401	HONE_T2	46	86	40	0.64	0.47	-0.17	0.1	0.22	0	0	0	0	0	0
1/24/2025 19:24	52502	PROG_T2	0	0	0	0	0	0	-0.27	-0.32	1	1	0	900	900	0
1/24/2025 19:24	64305	LINC_T1	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
1/24/2025 19:24	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:25	61303	EARL_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
1/24/2025 19:25	64101	REFR_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
1/24/2025 19:25	60803	BUCK_T1	18	18	0	0.36	0.39	0.03	0	0	0	0	0	0	0	0
1/24/2025 19:25	60801	BUCK_T1	23	29	6	0.2	0.24	0.04	-0.17	-0.17	0	0	0	0	0	0
1/24/2025 19:25	61703	ELIZ_T1	0	0	0	0	0	0	-0.86	-0.62	1	1	0	900	900	0
1/24/2025 19:25	66505	SMAN_T2	3	3	0	0.27	0.5	0.23	0	0	0	0	0	0	0	0
1/24/2025 19:25	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:25	43304	WATS_T2	8	19	11	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
1/24/2025 19:25	66502	SMAN_T2	0	0	0	0	0	0	-0.09	-0.04	0	0	0	0	0	0
1/24/2025 19:25	61701	ELIZ_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
1/24/2025 19:25	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:25	41902	REED_T1	20	41	21	0.61	0.46	-0.15	0.28	0.36	1	1	0	900	900	0
1/24/2025 19:25	60701	BREC_T1	1	6	5	0.4	0.32	-0.08	-0.32	-0.32	1	1	0	600	600	0
1/24/2025 19:25	67702	WERN_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
1/24/2025 19:26	44302	BEAV_T2	34	114	80	0.22	0.27	0.05	0	0	0	0	0	0	0	0
1/24/2025 19:26	60201	ATGL_T2	0	1	1	0	0.1	0.1	1.05	1.06	0	0	0	0	0	0
1/24/2025 19:26	10801	OHHI_T1	0	1	1	0	0.7	0.7	-1.31	-1.33	2	2	0	1500	1500	0
1/24/2025 19:26	44301	BEAV_T2	5	8	3	0.18	0.42	0.24	0	0	0	0	0	0	0	0
1/24/2025 19:27	43202	MVIL_T2	59	53	-6	0.33	0.3	-0.03	-0.51	-0.49	0	0	0	0	0	0
1/24/2025 19:27	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
1/24/2025 19:27	67401	WAKE_T2	16	12	-4	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
1/24/2025 19:27	67001	STHI_T2	1	2	1	0.8	0.5	-0.3	0.18	0.18	0	0	0	0	0	0
1/24/2025 19:27	67002	STHI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/24/2025 19:27	45502	DERR_T2	2	1	-1	1.05	0	-1.05	0	0	0	0	0	0	0	0
1/24/2025 19:27	45501	DERR_T2	3	5	2	0.63	0.4	-0.23	0.36	0.35	2	2	0	1800	1800	0
1/24/2025 19:27	54506	ENOL_T2	0	0	0	0	0	0	0.38	0.5	1	1	0	600	600	0
1/24/2025 19:27	64802	MONE_T2	0	0	0	0	0	0	0.04	0.07	0	0	0	0	0	0
1/24/2025 19:27	51202	MTON_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:27	20401	ASHF_T2	5	3	-2	0.36	0.2	-0.16	0	0	0	0	0	0	0	0
1/24/2025 19:27	54505	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/24/2025 19:27	66903	SHIL_T2	0	0	0	0	0	0	-1.22	-1.21	0	0	0	0	0	0
1/24/2025 19:27	60701	BREC_T1	1	6	5	0.4	0.32	-0.08	-0.32	-0.32	1	1	0	600	600	0
1/24/2025 19:27	46501	LOHA_T1	6	7	1	1.52	1.08	-0.44	0	0	0	0	0	0	0	0
1/24/2025 19:27	61802	EELI_T2	0	0	0	0	0	0	-0.19	-0.09	0	0	0	0	0	0
1/24/2025 19:27	61801	EELI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/24/2025 19:27	46203	DANV_T2	22	10	-12	0.6	0.84	0.24	-1.18	-1.18	0	0	0	0	0	0
1/24/2025 19:27	20402	ASHF_T2	2	4	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
1/24/2025 19:27	66902	SHIL_T2	0	0	0	0	0	0	-0.89	-0.89	0	0	0	0	0	0
1/24/2025 19:27	67703	WERN_T2	0	0	0	0	0	0	-0.09	-0.08	1	1	0	900	900	0
1/24/2025 19:27	67702	WERN_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
1/24/2025 19:27	20403	ASHF_T2	0	0	0	0	0	0	0.69	0.72	0	0	0	0	0	0
1/24/2025 19:27	46506	LOHA_T1	3	3	0	1.73	1.83	0.1	0	0	0	0	0	0	0	0
1/24/2025 19:27	52001	LING_T1	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
1/24/2025 19:27	43304	WATS_T2	8	19	11	0.31	0.3	-0.01	-0.8	-0.64	0	0	0	0	0	0
1/24/2025 19:27	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:27	47502	NECO_T1	0	1	1	0	0.1	0.1	1.55	1.74	0	0	0	0	0	0
1/24/2025 19:27	45802	HEGI_T2	45	47	2	1.12	1.49	0.37	0.23	0.25	0	0	0	0	0	0
1/24/2025 19:27	46004	BERW_T2	18	23	5	0.77	1.02	0.25	-0.65	-0.64	0	0	0	0	0	0
1/24/2025 19:27	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:28	43304	WATS_T2	8	19	11	0.31	0.3	-0.01	-0.2	-0.16	0	0	0	0	0	0
1/24/2025 19:28	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:28	46302	ROHR_T1	128	134	6	0.4	0.39	-0.01	0	0	0	0	0	0	0	0
1/24/2025 19:28	64101	REFR_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
1/24/2025 19:28	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:28	41002	LAUR_T2	37	49	12	0.39	0.61	0.22	0	0	0	0	0	0	0	0
1/24/2025 19:28	46301	ROHR_T1	312	320	8	0.98	1.04	0.06	0.3	0.31	0	0	0	0	0	0
1/24/2025 19:28	45501	DERR_T2	3	5	2	0.63	0.4	-0.23	0.72	0.7	4	4	0	3600	3600	0
1/24/2025 19:28	40702	FFLD_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/24/2025 19:28	45802	HEGI_T2	45	47	2	1.12	1.49	0.37	0.23	0.25	0	0	0	0	0	0
1/24/2025 19:28	46203	DANV_T2	22	10	-12	0.6	0.84	0.24	-1.18	-1.18	0	0	0	0	0	0
1/24/2025 19:28	65401	MARI_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
1/24/2025 19:28	54603	SUMM_T2	0	0	0	0	0	0	-0.28	-0.31	1	1	0	900	900	0
1/24/2025 19:28	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:28	66504	SMAN_T2	0	0	0	0	0	0	-0.26	-0.3	0	0	0	0	0	0
1/24/2025 19:28	41001	LAUR_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
1/24/2025 19:28	45502	DERR_T2	2	1	-1	1.05	0	-1.05	0	0	0	0	0	0	0	0
1/24/2025 19:28	66505	SMAN_T2	3	3	0	0.27	0.5	0.23	0	0	0	0	0	0	0	0
1/24/2025 19:28	40701	FFLD_T1	6	9	3	0.13	0.13	0	0	0	0	0	0	0	0	0
1/24/2025 19:28	46206	DANV_T2	0	0	0	0	0	0	1.17	1.5	2	2	0	2100	2100	0
1/24/2025 19:28	54505	ENOL_T2	1	1	0	0.2	0.4	0.2	-1.06	-1.05	1	1	0	600	600	0
1/24/2025 19:28	46204	DANV_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:28	63302	GREE_T1	0	0	0	0	0	0	-0.61	-0.69	0	0	0	0	0	0
1/24/2025 19:29	59101	WALK_T2	14	17	3	0.31	0.38	0.07	-0.37	-0.4	0	0	0	0	0	0
1/24/2025 19:29	52403	GRPA_T2	12	24	12	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
1/24/2025 19:29	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:29	49803	UNIV_T1	1	5	4	6.6	1.78	-4.82	-0.81	-0.86	0	0	0	0	0	0
1/24/2025 19:29	52502	PROG_T2	0	0	0	0	0	0	-0.27	-0.32	1	1	0	900	900	0
1/24/2025 19:29	61703	ELIZ_T1	0	0	0	0	0	0	-0.86	-0.62	1	1	0	900	900	0
1/24/2025 19:29	53501	EVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:29	49804	UNIV_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:29	52404	GRPA_T2	1	1	0	1.1	1.3	0.2	-0.13	-0.13	0	0	0	0	0	0
1/24/2025 19:29	64101	REFR_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
1/24/2025 19:29	53502	EVIL_T2	0	11	11	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:29	66201	SISP_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/24/2025 19:29	60701	BREC_T1	1	6	5	0.4	0.32	-0.08	-0.64	-0.64	2	2	0	1200	1200	0
1/24/2025 19:29	59102	WALK_T2	122	140	18	0.61	0.77	0.16	0.33	0.32	0	0	0	0	0	0
1/24/2025 19:29	61701	ELIZ_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
1/24/2025 19:29	52401	GRPA_T2	1	8	7	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
1/24/2025 19:29	43202	MVIL_T2	59	53	-6	0.33	0.3	-0.03	-0.51	-0.49	0	0	0	0	0	0
1/24/2025 19:29	52402	GRPA_T2	25	40	15	0.5	0.31	-0.19	0	0	0	0	0	0	0	0
1/24/2025 19:29	61304	EARL_T1	0	0	0	0	0	0	-0.18	-0.24	0	0	0	0	0	0
1/24/2025 19:29	59202	THOM_T1	480	496	16	1.02	1.12	0.1	0	0	0	0	0	0	0	0
1/24/2025 19:29	51303	WIND_T1	5	5	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/24/2025 19:29	59201	THOM_T1	78	91	13	0.78	0.87	0.09	0	0	0	0	0	0	0	0
1/24/2025 19:30	52402	GRPA_T2	40	23	-17	0.66	0.63	-0.03	0	0	0	0	0	0	0	0
1/24/2025 19:30	54504	ENOL_T2	0	0	0	0	0	0	-0.97	-0.97	1	1	0	600	600	0
1/24/2025 19:30	54503	ENOL_T2	0	0	0	0	0	0	-0.3	-0.31	1	1	0	600	600	0
1/24/2025 19:30	43304	WATS_T2	1	20	19	0.3	0.29	-0.01	-0.4	-0.32	0	0	0	0	0	0
1/24/2025 19:30	56501	ROCK_T2	1	2	1	1.1	0.95	-0.15	-1.45	-1.41	0	0	0	0	0	0
1/24/2025 19:30	66903	SHIL_T2	0	0	0	0	0	0	-1.22	-1.21	0	0	0	0	0	0
1/24/2025 19:30	54601	SUMM_T2	0	0	0	0	0	0	-1.65	-1.61	2	2	0	2100	2100	0
1/24/2025 19:30	44302	BEAV_T2	7	8	1	0.21	0.38	0.17	0	0	0	0	0	0	0	0
1/24/2025 19:30	43202	MVIL_T2	24	50	26	0.25	0.32	0.07	-0.51	-0.49	0	0	0	0	0	0
1/24/2025 19:30	20601	GRWO_T2	19	8	-11	0.6	1.8	1.2	0.07	0.1	0	0	0	0	0	0
1/24/2025 19:30	46501	LOHA_T1	7	4	-3	1.04	2.5	1.46	0	0	0	0	0	0	0	0
1/24/2025 19:30	44302	BEAV_T2	46	140	94	0.21	0.28	0.07	0.28	0.26	0	0	0	0	0	0
1/24/2025 19:30	62105	ELAN_T1	1	2	1	0.1	0.1	0	0.56	0.6	0	0	0	0	0	0
1/24/2025 19:30	44201	POIN_T1	0	10	10	0	0.1	0.1	-1.97	-1.91	2	2	0	2100	2100	0
1/24/2025 19:30	64101	REFR_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
1/24/2025 19:30	49804	UNIV_T1	2	0	-2	0.5	0	-0.5	0.64	0.65	0	0	0	0	0	0
1/24/2025 19:30	52403	GRPA_T2	21	25	4	0.69	0.57	-0.12	0	0	0	0	0	0	0	0
1/24/2025 19:30	49803	UNIV_T1	5	4	-1	1.56	3.55	1.99	0	0	0	0	0	0	0	0
1/24/2025 19:30	59102	WALK_T2	116	140	24	0.65	0.77	0.12	0	0	0	0	0	0	0	0
1/24/2025 19:30	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
1/24/2025 19:30	59101	WALK_T2	13	16	3	0.35	0.33	-0.02	-0.37	-0.4	0	0	0	0	0	0
1/24/2025 19:30	54505	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/24/2025 19:30	20602	GRWO_T2	9	9	0	0.47	0.15	-0.32	0	0	0	0	0	0	0	0
1/24/2025 19:30	52404	GRPA_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
1/24/2025 19:30	46506	LOHA_T1	3	3	0	1.73	1.83	0.1	0	0	0	0	0	0	0	0
1/24/2025 19:30	20603	GRWO_T2	30	39	9	1.07	0.69	-0.38	0	0	0	0	0	0	0	0
1/24/2025 19:30	52401	GRPA_T2	0	8	8	0	0.16	0.16	0	0	0	0	0	0	0	0
1/24/2025 19:31	67401	WAKE_T2	12	9	-3	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
1/24/2025 19:31	55001	NEWP_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/24/2025 19:31	67402	WAKE_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
1/24/2025 19:31	55002	NEWP_T1	3	5	2	0.77	0.66	-0.11	-0.16	-0.14	0	0	0	0	0	0
1/24/2025 19:32	40101	HUNT_T2	154	167	13	0.97	0.94	-0.03	-0.64	-0.62	0	0	0	0	0	0
1/24/2025 19:32	51204	MTON_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
1/24/2025 19:32	44301	BEAV_T2	7	8	1	0.21	0.38	0.17	0	0	0	0	0	0	0	0
1/24/2025 19:32	64904	MILL_T1	0	0	0	0	0	0	-0.14	-0.09	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/24/2025 19:32	61304	EARL_T1	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
1/24/2025 19:32	54603	SUMM_T2	0	0	0	0	0	0	-0.28	-0.31	1	1	0	900	900	0
1/24/2025 19:32	44302	BEAV_T2	46	140	94	0.21	0.28	0.07	0.28	0.26	0	0	0	0	0	0
1/24/2025 19:32	51202	MTON_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
1/24/2025 19:32	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:32	52502	PROG_T2	0	0	0	0	0	0	-0.27	-0.32	1	1	0	900	900	0
1/24/2025 19:33	57104	SPHI_T2	4	3	-1	2.18	3.85	1.67	0	0	0	0	0	0	0	0
1/24/2025 19:33	57106	SPHI_T2	3	3	0	0.9	1.37	0.47	0	0	0	0	0	0	0	0
1/24/2025 19:33	52402	GRPA_T2	40	23	-17	0.66	0.63	-0.03	0	0	0	0	0	0	0	0
1/24/2025 19:33	58401	MORO_T1	0	0	0	0	0	0	-0.93	-0.95	1	1	0	600	600	0
1/24/2025 19:33	59402	RFLD_T2	0	2	2	0	0.1	0.1	-0.88	-0.86	1	1	0	450	450	0
1/24/2025 19:33	67401	WAKE_T2	12	9	-3	0.15	0.14	-0.01	-1.07	-1.1	0	0	0	0	0	0
1/24/2025 19:33	51202	MTON_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
1/24/2025 19:33	57101	SPHI_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
1/24/2025 19:33	52401	GRPA_T2	0	8	8	0	0.16	0.16	0	0	0	0	0	0	0	0
1/24/2025 19:33	52404	GRPA_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
1/24/2025 19:33	52403	GRPA_T2	21	25	4	0.69	0.57	-0.12	-0.2	-0.2	0	0	0	0	0	0
1/24/2025 19:33	52502	PROG_T2	0	0	0	0	0	0	-0.27	-0.32	1	1	0	900	900	0
1/24/2025 19:33	67402	WAKE_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
1/24/2025 19:33	65702	RVIL_T2	0	0	0	0	0	0	-1.46	-1.42	0	0	0	0	0	0
1/24/2025 19:33	52501	PROG_T1	0	0	0	0	0	0	-0.77	-0.72	1	1	0	300	300	0
1/24/2025 19:33	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:34	52403	GRPA_T2	21	25	4	0.69	0.57	-0.12	0	0	0	0	0	0	0	0
1/24/2025 19:34	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:34	52401	GRPA_T2	0	8	8	0	0.16	0.16	-0.48	-0.54	0	0	0	0	0	0
1/24/2025 19:34	52402	GRPA_T2	40	23	-17	0.66	0.63	-0.03	0	0	0	0	0	0	0	0
1/24/2025 19:34	66504	SMAN_T2	0	0	0	0	0	0	-0.26	-0.3	0	0	0	0	0	0
1/24/2025 19:34	52404	GRPA_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
1/24/2025 19:34	46204	DANV_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/24/2025 19:34	46206	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 19:34	66502	SMAN_T2	0	0	0	0	0	0	-0.09	-0.04	0	0	0	0	0	0
1/24/2025 19:34	46203	DANV_T2	10	10	0	0.84	0.91	0.07	-1.18	-1.18	0	0	0	0	0	0
1/24/2025 19:34	66505	SMAN_T2	3	3	0	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
1/24/2025 19:35	47502	NECO_T1	1	0	-1	0.1	0	-0.1	1.55	1.74	0	0	0	0	0	0
1/24/2025 19:35	64101	REFR_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
1/24/2025 19:35	43304	WATS_T2	1	20	19	0.3	0.29	-0.01	-0.2	-0.16	0	0	0	0	0	0
1/24/2025 19:35	44301	BEAV_T2	7	8	1	0.21	0.38	0.17	0	0	0	0	0	0	0	0
1/24/2025 19:35	44302	BEAV_T2	46	140	94	0.21	0.28	0.07	0	0	0	0	0	0	0	0
1/24/2025 19:35	55105	WERT_T1	0	0	0	0	0	0	-0.3	-0.31	1	1	0	900	900	0
1/24/2025 19:35	65502	MOJO_T2	0	0	0	0	0	0	-0.87	-0.82	0	0	0	0	0	0
1/24/2025 19:36	64101	REFR_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
1/24/2025 19:39	44302	BEAV_T2	46	140	94	0.21	0.28	0.07	0.26	0.26	0	0	0	0	0	0
1/24/2025 19:39	44301	BEAV_T2	7	8	1	0.21	0.38	0.17	0	0	0	0	0	0	0	0
1/24/2025 20:00	65702	RVIL_T2	0	0	0	0	0	0	-1.44	-1.47	0	0	0	0	0	0
1/24/2025 20:03	60701	BREC_T1	7	6	-1	0.63	0.46	-0.17	-0.29	-0.3	1	1	0	600	600	0
1/24/2025 20:03	61001	DONV_T1	0	0	0	0	0	0	-0.42	-0.38	0	0	0	0	0	0
1/24/2025 21:04	55002	NEWP_T1	2	2	0	0.55	0.5	-0.05	-0.16	-0.16	0	0	0	0	0	0
1/24/2025 21:18	67703	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/24/2025 21:18	67702	WERN_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
1/24/2025 21:31	61001	DONV_T1	0	0	0	0	0	0	-0.27	-0.26	0	0	0	0	0	0
1/24/2025 22:02	58701	ROSE_T2	0	0	0	0	0	0	-1.55	-1.58	1	1	0	600	600	0
1/24/2025 22:02	58705	ROSE_T2	5	5	0	2.18	2.46	0.28	0	0	0	0	0	0	0	0
1/24/2025 22:02	58706	ROSE_T2	1	1	0	1.5	1.2	-0.3	0	0	0	0	0	0	0	0
1/25/2025 1:36	60701	BREC_T1	53	82	29	0.36	0.28	-0.08	-0.9	-0.92	2	2	0	1200	1200	0
1/25/2025 7:46	26704	HEML_T2	0	1	1	0	0	0	-0.32	-0.3	0	0	0	0	0	0
1/25/2025 7:58	40101	HUNT_T2	659	706	47	1.48	1.33	-0.15	-0.56	-0.58	0	0	0	0	0	0
1/25/2025 8:00	11104	EGYP_T1	51	103	52	0.52	0.71	0.19	0	0	0	0	0	0	0	0
1/25/2025 8:00	11103	EGYP_T1	4	5	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/25/2025 8:00	11102	EGYP_T1	24	27	3	0.86	0.77	-0.09	0	0	0	0	0	0	0	0
1/25/2025 8:00	11101	EGYP_T1	4	10	6	0.4	0.74	0.34	0	0	0	0	0	0	0	0
1/25/2025 8:00	17802	GILB_T1	224	229	5	0.95	1.62	0.67	0.56	0.64	0	0	0	0	0	0
1/25/2025 8:02	15601	NSTR_T2	68	178	110	0.66	0.7	0.04	0	0	0	0	0	0	0	0
1/25/2025 8:02	15603	NSTR_T2	1	3	2	1	0	-1	0	0	0	0	0	0	0	0
1/25/2025 8:08	15601	NSTR_T2	68	178	110	0.66	0.7	0.04	0	0	0	0	0	0	0	0
1/25/2025 8:08	15603	NSTR_T2	1	3	2	1	0	-1	0	0	0	0	0	0	0	0
1/25/2025 8:10	46204	DANV_T2	130	130	0	3.51	2.83	-0.68	0	0	0	0	0	0	0	0
1/25/2025 8:10	46203	DANV_T2	92	69	-23	0.79	0.71	-0.08	0	0	0	0	0	0	0	0
1/25/2025 8:10	46206	DANV_T2	36	44	8	0.67	0.51	-0.16	3.6	3.64	2	2	0	2400	2400	0
1/25/2025 8:11	40201	BEGA_T2	100	137	37	0.54	0.47	-0.07	0	0	0	0	0	0	0	0
1/25/2025 8:16	17802	GILB_T1	229	216	-13	1.49	2.06	0.57	0.64	0.61	0	0	0	0	0	0
1/25/2025 8:19	57304	MOAL_T2	7	6	-1	0.69	0.6	-0.09	0	0	0	0	0	0	0	0
1/25/2025 8:19	13503	MCMI_T2	0	2	2	0	0	0	-0.32	-0.29	0	0	0	0	0	0
1/25/2025 8:19	57303	MOAL_T2	1	1	0	9.4	8.8	-0.6	0	0	0	0	0	0	0	0
1/25/2025 8:19	57306	MOAL_T2	0	0	0	0	0	0	-2.67	-2.68	1	1	0	1200	1200	0
1/25/2025 8:19	57301	MOAL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/25/2025 8:21	41902	REED_T1	120	177	57	0.7	0.78	0.08	0.25	0.32	1	1	0	900	900	0
1/25/2025 8:21	40603	PIGR_T1	5	39	34	0.28	0.5	0.22	0	0	0	0	0	0	0	0
1/25/2025 8:21	40601	PIGR_T1	2	2	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
1/25/2025 8:21	40602	PIGR_T1	45	44	-1	0.55	0.39	-0.16	0	0	0	0	0	0	0	0
1/25/2025 8:21	41901	REED_T1	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
1/25/2025 8:21	41903	REED_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 8:22	41903	REED_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 8:22	41902	REED_T1	120	177	57	0.7	0.78	0.08	0.32	0.32	1	1	0	900	900	0
1/25/2025 8:22	41901	REED_T1	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
1/25/2025 8:25	53501	EVIL_T2	1	4	3	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
1/25/2025 8:25	53502	EVIL_T2	12	13	1	1.43	1.39	-0.04	0	0	0	0	0	0	0	0
1/25/2025 8:26	45502	DERR_T2	146	103	-43	0.88	0.69	-0.19	-0.49	-0.5	0	0	0	0	0	0
1/25/2025 8:26	45501	DERR_T2	60	51	-9	0.68	0.64	-0.04	0	0	0	0	0	0	0	0
1/25/2025 8:27	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/25/2025 8:27	29402	BELT_T1	45	37	-8	0.66	0.6	-0.06	0	0	0	0	0	0	0	0
1/25/2025 8:29	46203	DANV_T2	63	116	53	0.77	0.76	-0.01	0	0	0	0	0	0	0	0
1/25/2025 8:29	46204	DANV_T2	130	130	0	3.35	2.78	-0.57	0	0	0	0	0	0	0	0
1/25/2025 8:29	41801	GOCI_T2	4	18	14	0.75	0.97	0.22	0	0	0	0	0	0	0	0
1/25/2025 8:29	46206	DANV_T2	35	44	9	0.58	0.35	-0.23	1.82	1.78	1	1	0	1200	1200	0
1/25/2025 8:30	41801	GOCI_T2	7	20	13	0.61	0.76	0.15	0	0	0	0	0	0	0	0
1/25/2025 8:30	41802	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 8:31	28403	HART_T2	13	15	2	0.6	0.55	-0.05	0.42	0.4	0	0	0	0	0	0
1/25/2025 8:31	23402	HONE_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 8:31	23401	HONE_T2	18	40	22	0.74	0.41	-0.33	-0.05	-0.02	0	0	0	0	0	0
1/25/2025 8:32	43202	MVIL_T2	2	4	2	0.85	0.73	-0.12	0	0	0	0	0	0	0	0
1/25/2025 8:32	20603	GRWO_T2	50	47	-3	2.49	2.6	0.11	0	0	0	0	0	0	0	0
1/25/2025 8:32	43201	MVIL_T2	0	4	4	0	0.15	0.15	-0.22	-0.24	0	0	0	0	0	0
1/25/2025 8:32	20601	GRWO_T2	102	104	2	0.71	0.66	-0.05	0.06	0.1	0	0	0	0	0	0
1/25/2025 8:35	53803	MBRG_T2	0	1	1	0	0	0	0.08	0.08	0	0	0	0	0	0
1/25/2025 8:36	13201	PALM_T1	83	104	21	0.69	0.65	-0.04	0	0	0	0	0	0	0	0
1/25/2025 8:40	45303	WBER_T2	1	1	0	9.6	9.2	-0.4	0	0	0	0	0	0	0	0
1/25/2025 8:40	45302	WBER_T2	15	7	-8	0.6	0.6	0	0.93	0.86	0	0	0	0	0	0
1/25/2025 8:42	10801	CHHI_T1	4	2	-2	0.45	0	-0.45	-1.87	-1.81	3	3	0	2100	2100	0
1/25/2025 8:43	29402	BELT_T1	28	35	7	0.58	0.76	0.18	0	0	0	0	0	0	0	0
1/25/2025 8:46	11103	EGYP_T1	8	12	4	1	0.72	-0.28	0	0	0	0	0	0	0	0
1/25/2025 8:46	11102	EGYP_T1	19	21	2	0.79	0.59	-0.2	0.08	0.02	0	0	0	0	0	0
1/25/2025 8:46	11101	EGYP_T1	7	7	0	0.81	0.25	-0.56	0	0	0	0	0	0	0	0
1/25/2025 8:46	11104	EGYP_T1	81	32	-49	0.73	0.31	-0.42	0	0	0	0	0	0	0	0
1/25/2025 8:48	60501	NMAN_T2	9	21	12	0.12	0.24	0.12	0	0	0	0	0	0	0	0
1/25/2025 8:48	44703	MUNC_T2	9	9	0	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
1/25/2025 8:48	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 8:48	44701	MUNC_T2	92	103	11	0.92	1.04	0.12	0	0	0	0	0	0	0	0
1/25/2025 8:50	13704	SCHN_T2	0	8	8	0	0.16	0.16	-1.76	-1.79	0	0	0	0	0	0
1/25/2025 8:51	44701	MUNC_T2	92	103	11	0.92	1.04	0.12	0	0	0	0	0	0	0	0
1/25/2025 8:51	60502	NMAN_T2	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
1/25/2025 8:51	44703	MUNC_T2	9	9	0	0.4	0.23	-0.17	0.83	0.8	0	0	0	0	0	0
1/25/2025 8:51	60501	NMAN_T2	9	21	12	0.12	0.24	0.12	0	0	0	0	0	0	0	0
1/25/2025 8:53	40601	PIGR_T1	2	2	0	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
1/25/2025 8:53	40603	PIGR_T1	39	18	-21	0.55	0.35	-0.2	0	0	0	0	0	0	0	0
1/25/2025 8:53	40602	PIGR_T1	22	9	-13	0.43	0.23	-0.2	0	0	0	0	0	0	0	0
1/25/2025 9:00	40504	CRES_T1	4	11	7	0.13	0.13	0	0	0	0	0	0	0	0	0
1/25/2025 9:00	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 9:00	57301	MOAL_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/25/2025 9:00	40505	CRES_T1	2	1	-1	0.85	0.1	-0.75	0.52	0.52	0	0	0	0	0	0
1/25/2025 9:00	60501	NMAN_T2	21	5	-16	0.24	0.12	-0.12	0	0	0	0	0	0	0	0
1/25/2025 9:00	57306	MOAL_T2	0	0	0	0	0	0	-2.68	-2.69	1	1	0	1200	1200	0
1/25/2025 9:00	13704	SCHN_T2	4	4	0	0.2	0.13	-0.07	-1.79	-1.81	0	0	0	0	0	0
1/25/2025 9:00	67503	WEWI_T2	0	3	3	0	0	0	-0.9	-0.22	1	0	-1	600	0	-600
1/25/2025 9:00	57304	MOAL_T2	3	6	3	1.7	0.65	-1.05	0	0	0	0	0	0	0	0
1/25/2025 9:00	57303	MOAL_T2	1	1	0	9	8.7	-0.3	0	0	0	0	0	0	0	0
1/25/2025 9:02	44701	MUNC_T2	103	100	-3	1.22	0.99	-0.23	-0.96	-0.95	0	0	0	0	0	0
1/25/2025 9:02	44703	MUNC_T2	5	7	2	0.36	0.25	-0.11	0	0	0	0	0	0	0	0
1/25/2025 9:04	65205	PRIN_T1	1	2	1	1.6	1.6	0	0	0	0	0	0	0	0	0
1/25/2025 9:04	65202	PRIN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/25/2025 9:07	60502	NMAN_T2	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
1/25/2025 9:07	60501	NMAN_T2	21	5	-16	0.24	0.12	-0.12	0	0	0	0	0	0	0	0
1/25/2025 9:08	45303	WBER_T2	1	2	1	9.2	9.4	0.2	0	0	0	0	0	0	0	0
1/25/2025 9:08	45302	WBER_T2	2	10	8	0.6	0.35	-0.25	0.89	0.83	0	0	0	0	0	0
1/25/2025 9:11	29402	BELT_T1	21	7	-14	0.74	0.98	0.24	0	0	0	0	0	0	0	0
1/25/2025 9:12	11103	EGYP_T1	12	13	1	0.73	0.54	-0.19	0	0	0	0	0	0	0	0
1/25/2025 9:12	11101	EGYP_T1	5	4	-1	0.78	0	-0.78	0	0	0	0	0	0	0	0
1/25/2025 9:12	11104	EGYP_T1	23	75	52	0.34	0.46	0.12	0	0	0	0	0	0	0	0
1/25/2025 9:12	11102	EGYP_T1	16	21	5	0.58	0.48	-0.1	0	-0.01	0	0	0	0	0	0
1/25/2025 9:13	45502	DERR_T2	124	139	15	0.65	0.57	-0.08	-0.5	-0.5	0	0	0	0	0	0
1/25/2025 9:13	22803	HAUT_T2	83	92	9	1.07	1.13	0.06	0	0	0	0	0	0	0	0
1/25/2025 9:13	22805	HAUT_T2	335	477	142	1.34	1.34	0	0	0	0	0	0	0	0	0
1/25/2025 9:13	45501	DERR_T2	33	68	35	0.53	0.58	0.05	0	0	0	0	0	0	0	0
1/25/2025 9:14	20601	GRWO_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 9:14	29402	BELT_T1	21	7	-14	0.74	0.98	0.24	0	0	0	0	0	0	0	0
1/25/2025 9:14	11104	EGYP_T1	23	75	52	0.34	0.46	0.12	0	0	0	0	0	0	0	0
1/25/2025 9:14	11103	EGYP_T1	12	13	1	0.73	0.54	-0.19	0	0	0	0	0	0	0	0
1/25/2025 9:14	11101	EGYP_T1	5	4	-1	0.78	0	-0.78	0	0	0	0	0	0	0	0
1/25/2025 9:14	11102	EGYP_T1	16	21	5	0.58	0.48	-0.1	0	-0.01	0	0	0	0	0	0
1/25/2025 9:14	20601	GRWO_T2	57	118	61	0.67	0.75	0.08	0.06	0.06	0	0	0	0	0	0
1/25/2025 9:14	20603	GRWO_T2	41	57	16	2.6	2.58	-0.02	0	0	0	0	0	0	0	0
1/25/2025 9:14	40201	BEGA_T2	53	118	65	0.54	0.47	-0.07	0	0	0	0	0	0	0	0
1/25/2025 9:15	26704	HEML_T2	1	0	-1	0.1	0	-0.1	-0.28	-0.3	0	0	0	0	0	0
1/25/2025 9:15	63804	HEMP_T1	1	1	0	6.5	6.4	-0.1	0.68	0.74	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/25/2025 9:17	41801	GOCI_T2	19	39	20	0.6	0.46	-0.14	0	0	0	0	0	0	0	0
1/25/2025 9:17	40101	HUNT_T2	626	707	81	1.79	1.75	-0.04	-0.6	-0.59	0	0	0	0	0	0
1/25/2025 9:18	63305	GREE_T1	4	4	0	0.68	0.53	-0.15	-2.48	-2.51	1	1	0	900	900	0
1/25/2025 9:19	41902	REED_T1	188	116	-72	0.88	0.75	-0.13	0.29	0.35	1	1	0	900	900	0
1/25/2025 9:19	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 9:19	41901	REED_T1	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
1/25/2025 9:21	41903	REED_T1	0	1	1	0	0	0	-0.32	-0.24	1	1	0	1200	1200	0
1/25/2025 9:21	41902	REED_T1	188	116	-72	0.88	0.75	-0.13	0	0	0	0	0	0	0	0
1/25/2025 9:21	41901	REED_T1	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
1/25/2025 9:22	13202	PALM_T2	38	60	22	1.5	1.5	0	-1.31	-1.41	4	4	0	3600	3600	0
1/25/2025 9:22	48302	ORWI_T2	4	10	6	0.23	0.32	0.09	-0.95	-0.91	0	0	0	0	0	0
1/25/2025 9:22	13201	PALM_T1	106	134	28	0.74	0.74	0	0	0	0	0	0	0	0	0
1/25/2025 9:25	44301	BEAV_T2	2	3	1	1.35	1.7	0.35	0	0	0	0	0	0	0	0
1/25/2025 9:25	44302	BEAV_T2	9	10	1	0.18	0.15	-0.03	0.36	0.34	0	0	0	0	0	0
1/25/2025 9:29	23401	HONE_T2	12	80	68	0.63	0.43	-0.2	-0.12	-0.12	0	0	0	0	0	0
1/25/2025 9:29	23402	HONE_T2	2	3	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/25/2025 9:33	16402	MOPO_T1	6	5	-1	3.07	1.3	-1.77	-0.66	-0.67	0	0	0	0	0	0
1/25/2025 9:33	16401	MOPO_T1	24	13	-11	0.91	1.63	0.72	0	0	0	0	0	0	0	0
1/25/2025 9:33	57502	LAWN_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 9:33	57702	PAXT_T1	7	12	5	0.37	0.57	0.2	-0.41	-0.39	0	0	0	0	0	0
1/25/2025 9:33	57505	LAWN_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 9:33	13503	MCMI_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
1/25/2025 9:34	57702	PAXT_T1	7	12	5	0.37	0.57	0.2	0	0	0	0	0	0	0	0
1/25/2025 9:34	55002	NEWP_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
1/25/2025 9:34	55001	NEWP_T1	1	14	13	0.8	0	-0.8	-1.17	-1.04	1	1	0	600	600	0
1/25/2025 9:34	13503	MCMI_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
1/25/2025 9:35	40603	PIGR_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
1/25/2025 9:35	40601	PIGR_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/25/2025 9:35	40602	PIGR_T1	4	5	1	0.4	1	0.6	0	0	0	0	0	0	0	0
1/25/2025 9:36	13503	MCMI_T2	0	0	0	0	0	0	-0.34	-0.39	0	0	0	0	0	0
1/25/2025 9:40	10801	CHHI_T1	8	11	3	0.8	1.4	0.6	-1.26	-1.28	2	2	0	1500	1500	0
1/25/2025 9:40	67402	WAKE_T2	0	0	0	0	0	0	-0.23	-0.24	1	1	0	600	600	0
1/25/2025 9:41	67402	WAKE_T2	0	0	0	0	0	0	-0.23	-0.24	1	1	0	600	600	0
1/25/2025 9:43	52403	GRPA_T2	159	180	21	1.16	1.05	-0.11	-1.06	-0.58	0	0	0	0	0	0
1/25/2025 9:43	52401	GRPA_T2	63	9	-54	0.62	0.1	-0.52	0	0	0	0	0	0	0	0
1/25/2025 9:43	52402	GRPA_T2	171	184	13	1.4	1.48	0.08	0	0	0	0	0	0	0	0
1/25/2025 9:43	52404	GRPA_T2	43	52	9	0.62	0.47	-0.15	0	0	0	0	0	0	0	0
1/25/2025 9:44	11104	EGYP_T1	75	84	9	0.65	0.33	-0.32	0	0	0	0	0	0	0	0
1/25/2025 9:44	11102	EGYP_T1	18	14	-4	0.54	0.55	0.01	-0.02	-0.01	0	0	0	0	0	0
1/25/2025 9:44	44502	HAMI_T2	3	2	-1	0.67	2.15	1.48	0	0	0	0	0	0	0	0
1/25/2025 9:44	52404	GRPA_T2	43	52	9	0.62	0.47	-0.15	0	0	0	0	0	0	0	0
1/25/2025 9:44	52402	GRPA_T2	171	184	13	1.4	1.48	0.08	0	0	0	0	0	0	0	0
1/25/2025 9:44	11103	EGYP_T1	9	9	0	1.88	2.66	0.78	0	0	0	0	0	0	0	0
1/25/2025 9:44	52403	GRPA_T2	159	180	21	1.16	1.05	-0.11	0	0	0	0	0	0	0	0
1/25/2025 9:44	41801	GOCI_T2	37	32	-5	0.54	0.45	-0.09	0	0	0	0	0	0	0	0
1/25/2025 9:44	44503	HAMI_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/25/2025 9:44	44505	HAMI_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/25/2025 9:44	11101	EGYP_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 9:44	52401	GRPA_T2	63	9	-54	0.62	0.1	-0.52	-0.42	-0.5	0	0	0	0	0	0
1/25/2025 9:44	44501	HAMI_T2	2	8	6	0.3	0.35	0.05	0	0	0	0	0	0	0	0
1/25/2025 9:45	17802	GILB_T1	166	168	2	0.67	0.54	-0.13	0.43	0.42	0	0	0	0	0	0
1/25/2025 9:46	16101	BING_T2	6	1	-5	0.13	0	-0.13	0	0	0	0	0	0	0	0
1/25/2025 9:46	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 9:47	41801	GOCI_T2	32	28	-4	0.49	0.45	-0.04	0	0	0	0	0	0	0	0
1/25/2025 9:48	60501	NMAN_T2	7	0	-7	0.17	0	-0.17	0	0	0	0	0	0	0	0
1/25/2025 9:48	60502	NMAN_T2	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
1/25/2025 9:50	15602	NSTR_T2	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
1/25/2025 9:50	15601	NSTR_T2	186	150	-36	1	0.68	-0.32	0	0	0	0	0	0	0	0
1/25/2025 9:50	66903	SHIL_T2	0	0	0	0	0	0	-1.77	-1.77	0	0	0	0	0	0
1/25/2025 9:51	60501	NMAN_T2	7	0	-7	0.17	0	-0.17	0	0	0	0	0	0	0	0
1/25/2025 9:51	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 9:52	13702	SCHN_T1	1	1	0	0.5	0	-0.5	0.88	0.87	0	0	0	0	0	0
1/25/2025 9:54	40201	BEGA_T2	165	94	-71	0.68	0.61	-0.07	0	0	0	0	0	0	0	0
1/25/2025 9:56	40201	BEGA_T2	165	94	-71	0.68	0.61	-0.07	0	0	0	0	0	0	0	0
1/25/2025 9:57	40201	BEGA_T2	165	94	-71	0.68	0.61	-0.07	0	0	0	0	0	0	0	0
1/25/2025 10:04	13302	ORVI_T2	175	131	-44	0.3	0.27	-0.03	0.27	0.11	0	0	0	0	0	0
1/25/2025 10:06	65702	RVIL_T2	0	2	2	0	0.1	0.1	-2	-1.92	0	0	0	0	0	0
1/25/2025 10:06	13302	ORVI_T2	175	131	-44	0.3	0.27	-0.03	0.11	0.3	0	0	0	0	0	0
1/25/2025 10:07	65702	RVIL_T2	0	2	2	0	0.1	0.1	-1.92	-1.97	0	0	0	0	0	0
1/25/2025 10:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/25/2025 10:10	29402	BELT_T1	1	3	2	3.8	4	0.2	0	0	0	0	0	0	0	0
1/25/2025 10:12	45602	WOOL_T1	0	0	0	0	0	0	0.22	0.1	0	0	0	0	0	0
1/25/2025 10:14	22805	HAUT_T2	639	523	-116	1.35	1.44	0.09	-0.99	-1.06	1	1	0	1200	1200	0
1/25/2025 10:14	22803	HAUT_T2	126	120	-6	1.59	1.15	-0.44	0	0	0	0	0	0	0	0
1/25/2025 10:15	52403	GRPA_T2	114	110	-4	0.82	0.83	0.01	-0.56	-0.63	0	0	0	0	0	0
1/25/2025 10:15	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/25/2025 10:15	52404	GRPA_T2	10	4	-6	0.71	0.2	-0.51	0	0	0	0	0	0	0	0
1/25/2025 10:15	52402	GRPA_T2	125	171	46	1.44	1.37	-0.07	0	0	0	0	0	0	0	0
1/25/2025 10:16	42903	MIDD_T2	4	98	94	0.9	0.46	-0.44	0	0	0	0	0	0	0	0
1/25/2025 10:16	63802	HEMP_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
1/25/2025 10:16	42901	MIDD_T2	10	261	251	0.17	0.4	0.23	0	0	0	0	0	0	0	0
1/25/2025 10:16	42902	MIDD_T2	30	123	93	0.27	0.49	0.22	-0.37	-0.44	0	0	0	0	0	0
1/25/2025 10:16	63804	HEMP_T1	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
1/25/2025 10:17	42901	MIDD_T2	10	261	251	0.17	0.4	0.23	0	0	0	0	0	0	0	0
1/25/2025 10:17	42902	MIDD_T2	30	123	93	0.27	0.49	0.22	-0.74	-0.88	0	0	0	0	0	0
1/25/2025 10:17	42903	MIDD_T2	4	98	94	0.9	0.46	-0.44	0	0	0	0	0	0	0	0
1/25/2025 10:20	42902	MIDD_T2	30	123	93	0.27	0.49	0.22	0	0	0	0	0	0	0	0
1/25/2025 10:20	42901	MIDD_T2	10	261	251	0.17	0.4	0.23	0	0	0	0	0	0	0	0
1/25/2025 10:20	42903	MIDD_T2	4	98	94	0.9	0.46	-0.44	0.05	0.03	0	0	0	0	0	0
1/25/2025 10:21	54603	SUMM_T2	0	0	0	0	0	0	-1.24	-1.23	1	1	0	900	900	0
1/25/2025 10:21	42902	MIDD_T2	30	123	93	0.27	0.49	0.22	0	0	0	0	0	0	0	0
1/25/2025 10:21	42901	MIDD_T2	10	261	251	0.17	0.4	0.23	0	0	0	0	0	0	0	0
1/25/2025 10:21	42903	MIDD_T2	4	98	94	0.9	0.46	-0.44	0	0	0	0	0	0	0	0
1/25/2025 10:21	54601	SUMM_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
1/25/2025 10:22	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 10:22	13201	PALM_T1	126	157	31	0.8	0.77	-0.03	-0.28	-0.17	0	0	0	0	0	0
1/25/2025 10:23	53802	MBRG_T2	0	3	3	0	0	0	0.49	0.43	0	0	0	0	0	0
1/25/2025 10:24	42701	AUGU_T1	22	36	14	0.69	0.45	-0.24	0	0	0	0	0	0	0	0
1/25/2025 10:24	54603	SUMM_T2	0	0	0	0	0	0	-1.24	-1.23	1	1	0	900	900	0
1/25/2025 10:24	44302	BEAV_T2	61	285	224	0.26	0.54	0.28	0.39	0.38	0	0	0	0	0	0
1/25/2025 10:24	21504	CEAV_T1	0	0	0	0	0	0	1.32	1.34	0	0	0	0	0	0
1/25/2025 10:24	54601	SUMM_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
1/25/2025 10:24	44301	BEAV_T2	4	14	10	0.25	0.61	0.36	0	0	0	0	0	0	0	0
1/25/2025 10:26	44302	BEAV_T2	61	285	224	0.26	0.54	0.28	0.39	0.38	0	0	0	0	0	0
1/25/2025 10:26	44301	BEAV_T2	4	14	10	0.25	0.61	0.36	0	0	0	0	0	0	0	0
1/25/2025 10:28	53901	HALI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 10:28	53902	HALI_T2	1	1	0	4.7	4.7	0	0	0	0	0	0	0	0	0
1/25/2025 10:28	53903	HALI_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
1/25/2025 10:28	44301	BEAV_T2	4	14	10	0.25	0.61	0.36	0	0	0	0	0	0	0	0
1/25/2025 10:28	10801	CHHI_T1	2	2	0	0.3	0.6	0.3	-1.34	-1.32	2	2	0	1500	1500	0
1/25/2025 10:28	44302	BEAV_T2	61	285	224	0.26	0.54	0.28	0.39	0.38	0	0	0	0	0	0
1/25/2025 10:32	52401	GRPA_T2	0	0	0	0	0	0	-0.49	-0.39	0	0	0	0	0	0
1/25/2025 10:32	52404	GRPA_T2	4	1	-3	0.68	0.2	-0.48	0	0	0	0	0	0	0	0
1/25/2025 10:32	52403	GRPA_T2	99	108	9	0.87	0.71	-0.16	0	0	0	0	0	0	0	0
1/25/2025 10:32	52402	GRPA_T2	109	165	56	1.48	1.2	-0.28	0	0	0	0	0	0	0	0
1/25/2025 10:33	52404	GRPA_T2	4	1	-3	0.68	0.2	-0.48	0	0	0	0	0	0	0	0
1/25/2025 10:33	52403	GRPA_T2	99	108	9	0.87	0.71	-0.16	-0.63	-0.69	0	0	0	0	0	0
1/25/2025 10:33	52402	GRPA_T2	109	165	56	1.48	1.2	-0.28	0	0	0	0	0	0	0	0
1/25/2025 10:35	44902	SCOT_T2	0	1	1	0	0.1	0.1	-0.82	-0.82	0	0	0	0	0	0
1/25/2025 10:36	44901	SCOT_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
1/25/2025 10:36	44902	SCOT_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 10:37	49803	UNIV_T1	10	3	-7	1.01	3.4	2.39	-0.79	-0.7	0	0	0	0	0	0
1/25/2025 10:37	44905	SCOT_T1	10	8	-2	0.46	0	-0.46	0	0	0	0	0	0	0	0
1/25/2025 10:37	49804	UNIV_T1	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/25/2025 10:38	44902	SCOT_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 10:38	44901	SCOT_T2	0	0	0	0	0	0	-0.32	-0.37	0	0	0	0	0	0
1/25/2025 10:38	49803	UNIV_T1	10	3	-7	1.01	3.4	2.39	0	0	0	0	0	0	0	0
1/25/2025 10:38	49804	UNIV_T1	2	1	-1	0.2	0	-0.2	0.79	0.78	0	0	0	0	0	0
1/25/2025 10:41	45501	DERR_T2	8	9	1	0.6	0.33	-0.27	-0.06	-0.19	2	2	0	1800	1800	0
1/25/2025 10:41	45502	DERR_T2	30	9	-21	0.55	0.72	0.17	0	0	0	0	0	0	0	0
1/25/2025 10:42	10805	CHHI_T2	6	6	0	1.42	7.3	5.88	-0.96	-1	1	1	0	600	600	0
1/25/2025 10:43	45501	DERR_T2	8	9	1	0.6	0.33	-0.27	-0.06	-0.19	2	2	0	1800	1800	0
1/25/2025 10:43	45502	DERR_T2	30	9	-21	0.55	0.72	0.17	0	0	0	0	0	0	0	0
1/25/2025 10:45	53902	HALI_T2	1	1	0	4.6	4.8	0.2	-0.92	-0.99	0	0	0	0	0	0
1/25/2025 10:45	53903	HALI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
1/25/2025 10:46	53902	HALI_T2	1	1	0	4.6	4.8	0.2	-1.84	-1.98	0	0	0	0	0	0
1/25/2025 10:46	53903	HALI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
1/25/2025 10:48	63501	HEID_TBK1-2	12	11	-1	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
1/25/2025 10:49	40601	PIGR_T1	10	1	-9	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/25/2025 10:49	40603	PIGR_T1	1	6	5	0.4	1.25	0.85	0	0	0	0	0	0	0	0
1/25/2025 10:49	63501	HEID_TBK1-2	12	11	-1	0.38	0.3	-0.08	-0.36	-0.34	1	1	0	900	900	0
1/25/2025 10:49	40602	PIGR_T1	4	3	-1	0.35	0.43	0.08	0	0	0	0	0	0	0	0
1/25/2025 10:49	43201	MVIL_T2	11	6	-5	0.44	0.45	0.01	-0.25	-0.25	0	0	0	0	0	0
1/25/2025 10:49	43202	MVIL_T2	6	8	2	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
1/25/2025 10:51	41901	REED_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/25/2025 10:51	41903	REED_T1	0	0	0	0	0	0	-0.36	-0.4	1	1	0	1200	1200	0
1/25/2025 10:51	66203	SISP_T2	0	0	0	0	0	0	-1.31	-1.31	2	2	0	1800	1800	0
1/25/2025 10:51	66201	SISP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 10:51	41902	REED_T1	11	21	10	0.67	0.25	-0.42	0	0	0	0	0	0	0	0
1/25/2025 10:53	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 10:53	66201	SISP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 10:53	40602	PIGR_T1	4	3	-1	0.35	0.43	0.08	0	0	0	0	0	0	0	0
1/25/2025 10:53	40603	PIGR_T1	1	6	5	0.4	1.25	0.85	0	0	0	0	0	0	0	0
1/25/2025 10:53	40601	PIGR_T1	10	1	-9	0.2	0	-0.2	0.05	-0.01	0	0	0	0	0	0
1/25/2025 10:54	41902	REED_T1	11	21	10	0.67	0.25	-0.42	0.32	0.27	1	1	0	900	900	0
1/25/2025 10:54	41901	REED_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
1/25/2025 10:56	16101	BING_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 10:56	16103	BING_T2	0	0	0	0	0	0	-2.06	-2.03	2	2	0	1500	1500	0
1/25/2025 10:56	55105	WERT_T1	0	0	0	0	0	0	-0.32	-0.39	1	1	0	900	900	0
1/25/2025 10:58	61304	EARL_T1	22	20	-2	0.17	0.18	0.01	0	0	0	0	0	0	0	0
1/25/2025 10:58	61305	EARL_T1	0	0	0	0	0	0	0.8	0.73	1	1	0	900	900	0
1/25/2025 11:01	46501	LOHA_T1	11	11	0	0.88	1.04	0.16	0	0	0	0	0	0	0	0
1/25/2025 11:01	46506	LOHA_T1	2	3	1	1.05	0.43	-0.62	0.1	0.08	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/25/2025 11:01	46503	LOHA_T1	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
1/25/2025 11:02	46501	LOHA_T1	11	11	0	0.88	1.04	0.16	0	0	0	0	0	0	0	0
1/25/2025 11:02	46506	LOHA_T1	2	3	1	1.05	0.43	-0.62	0.05	0.04	0	0	0	0	0	0
1/25/2025 11:02	45802	HEGI_T2	4	35	31	0.2	0.54	0.34	0	0	0	0	0	0	0	0
1/25/2025 11:02	46503	LOHA_T1	0	5	5	0	0.4	0.4	0	0	0	0	0	0	0	0
1/25/2025 11:03	55002	NEWP_T1	5	4	-1	1	1.05	0.05	0	0	0	0	0	0	0	0
1/25/2025 11:03	55001	NEWP_T1	0	1	1	0	0	0	-1.34	-0.18	2	0	-2	1200	0	-1200
1/25/2025 11:04	65001	NEFF_T2	101	115	14	0.16	0.17	0.01	0	0	0	0	0	0	0	0
1/25/2025 11:04	65004	NEFF_T2	1	1	0	0.2	0.4	0.2	-0.98	-0.99	1	1	0	600	600	0
1/25/2025 11:06	13302	ORVI_T2	19	19	0	0.24	0.23	-0.01	0.16	0.22	0	0	0	0	0	0
1/25/2025 11:06	13103	NHAM_T2	0	0	0	0	0	0	-1.45	-1.44	1	1	0	600	600	0
1/25/2025 11:06	13105	NHAM_T2	17	17	0	0.84	1.3	0.46	0	0	0	0	0	0	0	0
1/25/2025 11:06	52502	PROG_T2	1	0	-1	0.2	0	-0.2	-0.35	-0.34	1	1	0	900	900	0
1/25/2025 11:07	52502	PROG_T2	1	0	-1	0.2	0	-0.2	-0.35	-0.34	1	1	0	900	900	0
1/25/2025 11:08	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 11:08	41902	REED_T1	20	5	-15	0.5	0.2	-0.3	0.27	0.21	1	1	0	900	900	0
1/25/2025 11:10	29402	BELT_T1	2	13	11	1.7	0.65	-1.05	0	0	0	0	0	0	0	0
1/25/2025 11:10	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/25/2025 11:12	61304	EARL_T1	15	22	7	0.13	0.18	0.05	-0.67	-0.69	1	1	0	600	600	0
1/25/2025 11:13	45802	HEGI_T2	4	35	31	0.2	0.54	0.34	0.53	0.48	0	0	0	0	0	0
1/25/2025 11:15	63501	HEID_TBK1-2	10	17	7	0.16	0.28	0.12	-0.82	-0.9	2	2	0	1800	1800	0
1/25/2025 11:15	53901	HALI_T2	0	0	0	0	0	0	-1.22	-1.18	0	0	0	0	0	0
1/25/2025 11:15	53903	HALI_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
1/25/2025 11:15	53902	HALI_T2	1	1	0	4.5	5	0.5	0	0	0	0	0	0	0	0
1/25/2025 11:17	63305	GREE_T1	4	13	9	0.55	0.41	-0.14	0	0	0	0	0	0	0	0
1/25/2025 11:17	45802	HEGI_T2	3	37	34	0.33	0.6	0.27	0.53	0.48	0	0	0	0	0	0
1/25/2025 11:17	63804	HEMP_T1	1	1	0	6.4	6.7	0.3	0	0	0	0	0	0	0	0
1/25/2025 11:17	63801	HEMP_T1	0	0	0	0	0	0	-0.09	-0.28	0	0	0	0	0	0
1/25/2025 11:17	54506	ENOL_T2	0	0	0	0	0	0	0.23	0.26	0	1	1	0	600	600
1/25/2025 11:17	63302	GREE_T1	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
1/25/2025 11:18	63501	HEID_TBK1-2	10	17	7	0.16	0.28	0.12	-0.41	-0.45	1	1	0	900	900	0
1/25/2025 11:18	52001	LING_T1	0	0	0	0	0	0	-0.85	-0.89	0	0	0	0	0	0
1/25/2025 11:19	57704	PAXT_T2	0	0	0	0	0	0	-0.23	-0.24	1	1	0	900	900	0
1/25/2025 11:19	64101	REFR_T1	0	0	0	0	0	0	0.16	0.1	0	0	0	0	0	0
1/25/2025 11:20	64403	LAND_T1	0	0	0	0	0	0	-1.66	-1.64	1	1	0	900	900	0
1/25/2025 11:20	64101	REFR_T1	0	0	0	0	0	0	0.16	0.1	0	0	0	0	0	0
1/25/2025 11:21	41902	REED_T1	5	2	-3	0.28	0	-0.28	0.27	0.21	1	1	0	900	900	0
1/25/2025 11:21	64101	REFR_T1	0	0	0	0	0	0	0.48	0.3	0	0	0	0	0	0
1/25/2025 11:21	41901	REED_T1	1	1	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
1/25/2025 11:22	57002	WHHI_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
1/25/2025 11:22	57001	WHHI_T2	0	0	0	0	0	0	-1.57	-1.56	1	1	0	900	900	0
1/25/2025 11:22	57003	WHHI_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/25/2025 11:22	44902	SCOT_T2	0	2	2	0	0.2	0.2	-0.84	-0.85	0	0	0	0	0	0
1/25/2025 11:22	44901	SCOT_T2	2	11	9	0.1	0.26	0.16	0	0	0	0	0	0	0	0
1/25/2025 11:23	64101	REFR_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
1/25/2025 11:24	64101	REFR_T1	0	0	0	0	0	0	0.2	0.24	0	0	0	0	0	0
1/25/2025 11:25	46206	DANV_T2	4	12	8	0.5	0.3	-0.2	1.64	1.65	2	2	0	2100	2100	0
1/25/2025 11:25	46204	DANV_T2	121	114	-7	1.33	0.55	-0.78	0	0	0	0	0	0	0	0
1/25/2025 11:25	44902	SCOT_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/25/2025 11:25	44901	SCOT_T2	2	11	9	0.1	0.26	0.16	-0.38	-0.32	0	0	0	0	0	0
1/25/2025 11:25	46203	DANV_T2	8	7	-1	0.25	0.54	0.29	0	0	0	0	0	0	0	0
1/25/2025 11:27	46203	DANV_T2	8	7	-1	0.25	0.54	0.29	0	0	0	0	0	0	0	0
1/25/2025 11:27	46204	DANV_T2	121	114	-7	1.33	0.55	-0.78	0	0	0	0	0	0	0	0
1/25/2025 11:27	46206	DANV_T2	4	12	8	0.5	0.3	-0.2	1.64	1.65	2	2	0	2100	2100	0
1/25/2025 11:28	46204	DANV_T2	121	114	-7	1.33	0.55	-0.78	0	0	0	0	0	0	0	0
1/25/2025 11:28	46206	DANV_T2	4	12	8	0.5	0.3	-0.2	1.64	1.65	2	2	0	2100	2100	0
1/25/2025 11:28	46203	DANV_T2	8	7	-1	0.25	0.54	0.29	0	0	0	0	0	0	0	0
1/25/2025 11:34	64305	LINC_T1	0	0	0	0	0	0	-0.5	-0.54	0	0	0	0	0	0
1/25/2025 11:35	46204	DANV_T2	93	115	22	0.56	0.57	0.01	0	0	0	0	0	0	0	0
1/25/2025 11:35	64305	LINC_T1	0	0	0	0	0	0	-0.5	-0.54	0	0	0	0	0	0
1/25/2025 11:35	46203	DANV_T2	7	6	-1	0.54	0.22	-0.32	-2.47	-2.48	0	0	0	0	0	0
1/25/2025 11:35	46206	DANV_T2	5	8	3	0.52	0.2	-0.32	0	0	0	0	0	0	0	0
1/25/2025 11:37	66504	SMAN_T2	0	0	0	0	0	0	-1.65	-1.69	1	1	0	1200	1200	0
1/25/2025 11:40	14401	SSLA_T1	12	13	1	0.78	0.54	-0.24	0	0	0	0	0	0	0	0
1/25/2025 11:40	49803	UNIV_T1	1	1	0	6.2	6.1	-0.1	-0.85	-0.88	0	0	0	0	0	0
1/25/2025 11:40	59101	WALK_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
1/25/2025 11:40	14402	SSLA_T1	15	12	-3	2.4	2.35	-0.05	0	0	0	0	0	0	0	0
1/25/2025 11:40	10801	OHHI_T1	4	8	4	1.58	0.9	-0.68	-1.31	-1.3	2	2	0	1500	1500	0
1/25/2025 11:40	14403	SSLA_T1	6	4	-2	0.68	0.8	0.12	0	0	0	0	0	0	0	0
1/25/2025 11:40	66504	SMAN_T2	0	0	0	0	0	0	-3.3	-3.38	2	2	0	2400	2400	0
1/25/2025 11:40	59102	WALK_T2	21	32	11	0.24	0.3	0.06	0.27	0.29	0	0	0	0	0	0
1/25/2025 11:41	59101	WALK_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
1/25/2025 11:41	59102	WALK_T2	21	32	11	0.24	0.3	0.06	0	0	0	0	0	0	0	0
1/25/2025 11:42	57002	WHHI_T2	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
1/25/2025 11:42	57004	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/25/2025 11:43	51804	EBEN_T2	0	0	0	0	0	0	-1.4	-1.47	1	1	0	900	900	0
1/25/2025 11:44	46206	DANV_T2	5	8	3	0.52	0.2	-0.32	1.65	1.64	2	2	0	2100	2100	0
1/25/2025 11:44	46203	DANV_T2	7	6	-1	0.54	0.22	-0.32	-4.96	-5.02	0	0	0	0	0	0
1/25/2025 11:44	46004	BERW_T2	21	27	6	0.46	0.62	0.16	-0.63	-0.57	0	0	0	0	0	0
1/25/2025 11:44	46204	DANV_T2	93	115	22	0.56	0.57	0.01	0	0	0	0	0	0	0	0
1/25/2025 11:44	45501	DERR_T2	0	0	0	0	0	0	-0.43	-0.48	2	2	0	1800	1800	0
1/25/2025 11:44	45502	DERR_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/25/2025 11:44	46003	BERW_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/25/2025 11:44	51802	EBEN_T2	0	0	0	0	0	0	-0.19	-0.31	1	1	0	900	900	0
1/25/2025 11:48	53502	EVIL_T2	11	12	1	1.19	0	-1.19	0	0	0	0	0	0	0	0
1/25/2025 11:48	53501	EVIL_T2	1	1	0	0.4	1.1	0.7	-1.1	-1.2	1	1	0	600	600	0
1/25/2025 11:53	64101	REFR_T1	0	0	0	0	0	0	0.11	0.07	0	0	0	0	0	0
1/25/2025 11:55	64101	REFR_T1	0	0	0	0	0	0	0.11	0.07	0	0	0	0	0	0
1/25/2025 11:57	41602	CLEV_T1	1	2	1	0.4	0	-0.4	0	0	1	1	0	600	600	0
1/25/2025 11:57	60404	DILL_T2	1	1	0	7.5	0	-7.5	-0.62	-0.6	1	1	0	1200	1200	0
1/25/2025 12:00	61701	ELIZ_T1	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
1/25/2025 12:00	64203	KINZ_T1	8	9	1	1.89	1.93	0.04	0.33	0.31	0	0	0	0	0	0
1/25/2025 12:00	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 12:00	61703	ELIZ_T1	0	3	3	0	0.1	0.1	-0.79	-0.8	1	1	0	900	900	0
1/25/2025 12:00	64202	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/25/2025 12:00	64204	KINZ_T1	61	70	9	0.67	0.96	0.29	0	0	0	0	0	0	0	0
1/25/2025 12:00	45501	DERR_T2	0	2	2	0	0	0	-0.48	-0.6	2	2	0	1800	1800	0
1/25/2025 12:05	51202	MTON_T2	0	0	0	0	0	0	-0.9	-0.93	1	1	0	1200	1200	0
1/25/2025 12:06	65004	NEFF_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
1/25/2025 12:06	65001	NEFF_T2	92	222	130	0.15	0.28	0.13	0	0	0	0	0	0	0	0
1/25/2025 12:06	65003	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/25/2025 12:06	13704	SOHN_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
1/25/2025 12:08	13904	SEID_T1	82	84	2	1.52	1.4	-0.12	0	0	0	0	0	0	0	0
1/25/2025 12:08	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 12:09	66504	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/25/2025 12:09	66503	SMAN_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
1/25/2025 12:12	46206	DANV_T2	1	23	22	0.2	0.5	0.3	0	0	0	0	0	0	0	0
1/25/2025 12:12	46204	DANV_T2	102	109	7	0.58	0.47	-0.11	0	0	0	0	0	0	0	0
1/25/2025 12:12	46203	DANV_T2	6	6	0	0.22	0.38	0.16	-2.6	-2.62	0	0	0	0	0	0
1/25/2025 12:12	44801	EDAN_T2	1	1	0	1.6	0.4	-1.2	-0.31	-0.35	0	0	0	0	0	0
1/25/2025 12:13	60104	COCA_T2	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
1/25/2025 12:13	46206	DANV_T2	1	23	22	0.2	0.5	0.3	0	0	0	0	0	0	0	0
1/25/2025 12:13	46204	DANV_T2	102	109	7	0.58	0.47	-0.11	0	0	0	0	0	0	0	0
1/25/2025 12:13	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 12:13	46203	DANV_T2	6	6	0	0.22	0.38	0.16	-2.6	-2.62	0	0	0	0	0	0
1/25/2025 12:14	16101	BING_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/25/2025 12:14	16103	BING_T2	0	0	0	0	0	0	-2.07	-2.11	2	2	0	1500	1500	0
1/25/2025 12:15	44801	EDAN_T2	1	1	0	2.3	0	-2.3	-0.31	-0.35	0	0	0	0	0	0
1/25/2025 12:16	64101	REFR_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
1/25/2025 12:17	42902	MIDD_T2	179	84	-95	0.63	0.38	-0.25	-0.48	-0.56	0	0	0	0	0	0
1/25/2025 12:17	42903	MIDD_T2	170	61	-109	0.59	0.42	-0.17	0	0	0	0	0	0	0	0
1/25/2025 12:17	42901	MIDD_T2	397	159	-238	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
1/25/2025 12:18	42903	MIDD_T2	170	61	-109	0.59	0.42	-0.17	0	0	0	0	0	0	0	0
1/25/2025 12:18	42902	MIDD_T2	179	84	-95	0.63	0.38	-0.25	-0.96	-1.12	0	0	0	0	0	0
1/25/2025 12:18	42901	MIDD_T2	397	159	-238	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
1/25/2025 12:19	42902	MIDD_T2	179	84	-95	0.63	0.38	-0.25	-0.48	-0.56	0	0	0	0	0	0
1/25/2025 12:19	52402	GRPA_T2	40	58	18	1.15	1.14	-0.01	0	0	0	0	0	0	0	0
1/25/2025 12:19	52403	GRPA_T2	15	47	32	0.51	0.72	0.21	0	0	0	0	0	0	0	0
1/25/2025 12:19	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 12:19	42903	MIDD_T2	170	61	-109	0.59	0.42	-0.17	0	0	0	0	0	0	0	0
1/25/2025 12:19	52401	GRPA_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
1/25/2025 12:19	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 12:19	42901	MIDD_T2	397	159	-238	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
1/25/2025 12:21	42903	MIDD_T2	170	61	-109	0.59	0.42	-0.17	0	0	0	0	0	0	0	0
1/25/2025 12:21	42902	MIDD_T2	179	84	-95	0.63	0.38	-0.25	-0.48	-0.56	0	0	0	0	0	0
1/25/2025 12:21	42901	MIDD_T2	397	159	-238	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
1/25/2025 12:22	64101	REFR_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
1/25/2025 12:23	57002	WHHI_T2	0	0	0	0	0	0	-1.16	-1.19	1	1	0	1200	1200	0
1/25/2025 12:23	57004	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/25/2025 12:24	55105	WERT_T1	0	0	0	0	0	0	-0.45	-0.46	1	1	0	900	900	0
1/25/2025 12:25	60201	ATGL_T2	95	12	-83	0.32	0.19	-0.13	0.97	0.88	0	0	0	0	0	0
1/25/2025 12:27	20401	ASHF_T2	4	8	4	0.6	0.1	-0.5	-0.81	-0.73	1	1	0	600	600	0
1/25/2025 12:27	54505	ENOL_T2	1	1	0	0.2	0.1	-0.1	-1.12	-1.16	1	1	0	600	600	0
1/25/2025 12:27	20402	ASHF_T2	23	8	-15	0.61	0	-0.61	0	0	0	0	0	0	0	0
1/25/2025 12:28	53502	EVIL_T2	12	1	-11	0.91	0.7	-0.21	0	0	0	0	0	0	0	0
1/25/2025 12:28	53501	EVIL_T2	1	1	0	0.1	0	-0.1	-2.38	-2.4	2	2	0	1200	1200	0
1/25/2025 12:28	60101	COCA_T1	0	0	0	0	0	0	0.51	0.64	0	0	0	0	0	0
1/25/2025 12:30	46802	HEPB_T1	0	0	0	0	0	0	-1.21	-1.24	0	0	0	0	0	0
1/25/2025 12:30	60101	COCA_T1	0	0	0	0	0	0	0.51	0.64	0	0	0	0	0	0
1/25/2025 12:32	53502	EVIL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
1/25/2025 12:32	53501	EVIL_T2	0	3	3	0	0.1	0.1	-1.19	-1.2	1	1	0	600	600	0
1/25/2025 12:32	16102	BING_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
1/25/2025 12:33	53501	EVIL_T2	0	3	3	0	0.1	0.1	-1.19	-1.2	1	1	0	600	600	0
1/25/2025 12:33	53502	EVIL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
1/25/2025 12:37	54601	SUMM_T2	1	1	0	0.9	0.7	-0.2	-1.69	-1.72	2	2	0	2100	2100	0
1/25/2025 12:43	53903	HALI_T2	2	2	0	1	1.1	0.1	-0.13	-0.11	0	0	0	0	0	0
1/25/2025 12:43	53901	HALI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
1/25/2025 12:43	53902	HALI_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
1/25/2025 12:44	46206	DANV_T2	18	22	4	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
1/25/2025 12:44	46204	DANV_T2	109	99	-10	0.58	0.38	-0.2	0	0	0	0	0	0	0	0
1/25/2025 12:44	46203	DANV_T2	6	9	3	0.38	0.61	0.23	-2.69	-2.66	0	0	0	0	0	0
1/25/2025 12:45	53502	EVIL_T2	1	12	11	1.7	0	-1.7	0	0	0	0	0	0	0	0
1/25/2025 12:45	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/25/2025 12:45	53501	EVIL_T2	1	2	1	0.5	0.15	-0.35	-1.2	-1.2	1	1	0	600	600	0
1/25/2025 12:45	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 12:47	63501	HEID_TBK1-2	52	11	-41	0.38	0.15	-0.23	-0.46	-0.42	1	1	0	900	900	0
1/25/2025 12:47	64305	LINC_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
1/25/2025 12:48	64305	LINC_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
1/25/2025 12:49	63501	HEID_TBK1-2	52	11	-41	0.38	0.15	-0.23	-0.46	-0.42	1	1	0	900	900	0
1/25/2025 12:50	65703	RVIL_T1	0	0	0	0	0	0	-1.21	-1.19	1	1	0	900	900	0
1/25/2025 12:50	63501	HEID_TBK1-2	52	11	-41	0.38	0.15	-0.23	-0.46	-0.42	1	1	0	900	900	0
1/25/2025 12:51	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 12:52	55002	NEWP_T1	5	6	1	0.84	0.65	-0.19	-0.14	-0.16	0	0	0	0	0	0
1/25/2025 12:52	67702	WERN_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
1/25/2025 12:52	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 12:53	52501	PROG_T1	0	0	0	0	0	0	-0.8	-1.17	0	1	1	0	300	300
1/25/2025 12:56	67702	WERN_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
1/25/2025 12:59	61302	EARL_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/25/2025 12:59	61306	EARL_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
1/25/2025 12:59	61304	EARL_T1	0	27	27	0	0.23	0.23	0	0	0	0	0	0	0	0
1/25/2025 13:07	64101	REFR_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
1/25/2025 13:08	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 13:08	44202	POIN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/25/2025 13:13	61704	ELIZ_T2	0	5	5	0	0.28	0.28	0	0	0	0	0	0	0	0
1/25/2025 13:13	46206	DANV_T2	18	16	-2	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
1/25/2025 13:13	61702	ELIZ_T2	2	4	2	0.45	0.55	0.1	-0.68	-0.63	1	1	0	300	300	0
1/25/2025 13:13	46203	DANV_T2	9	0	-9	0.61	0	-0.61	-1.75	-1.73	0	0	0	0	0	0
1/25/2025 13:13	46204	DANV_T2	53	48	-5	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
1/25/2025 13:15	61701	ELIZ_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
1/25/2025 13:15	61304	EARL_T1	27	63	36	0.21	0.22	0.01	0	0	0	0	0	0	0	0
1/25/2025 13:15	61703	ELIZ_T1	1	0	-1	0.2	0	-0.2	-1	-0.82	1	1	0	900	900	0
1/25/2025 13:15	60901	DONG_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/25/2025 13:15	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/25/2025 13:15	60902	DONG_T2	0	0	0	0	0	0	0.61	0.6	0	0	0	0	0	0
1/25/2025 13:15	61301	EARL_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
1/25/2025 13:21	41901	REED_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/25/2025 13:21	41902	REED_T1	3	3	0	0.77	0	-0.77	0.2	0.02	1	1	0	900	900	0
1/25/2025 13:23	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.44	1	1	0	900	900	0
1/25/2025 13:26	43402	BENT_T1	1	5	4	0.3	0.42	0.12	-0.86	-0.86	1	1	0	900	900	0
1/25/2025 13:26	43401	BENT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 13:27	51804	EBEN_T2	0	0	0	0	0	0	-1.49	-1.53	1	1	0	900	900	0
1/25/2025 13:27	51802	EBEN_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 13:29	24102	EHAZ_T1	7	8	1	1	0.65	-0.35	0	0	0	0	0	0	0	0
1/25/2025 13:29	24101	EHAZ_T1	85	83	-2	1.7	1.7	0	0	0	0	0	0	0	0	0
1/25/2025 13:29	24105	EHAZ_T1	38	37	-1	1.52	1.45	-0.07	0	0	0	0	0	0	0	0
1/25/2025 13:29	24103	EHAZ_T1	8	7	-1	0.91	1.13	0.22	0	0	0	0	0	0	0	0
1/25/2025 13:29	24104	EHAZ_T1	0	0	0	0	0	0	-2.13	-2.14	1	1	0	1200	1200	0
1/25/2025 13:30	53501	EVIL_T2	1	1	0	0.8	0.7	-0.1	-1.16	-1.19	1	1	0	600	600	0
1/25/2025 13:30	53502	EVIL_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/25/2025 13:31	47104	MARL_T1	18	9	-9	0.59	0.25	-0.34	0	0	0	0	0	0	0	0
1/25/2025 13:31	47101	MARL_T1	384	328	-56	1.35	1.45	0.1	-1.78	-1.78	1	1	0	600	600	0
1/25/2025 13:32	64401	LAND_T1	0	0	0	0	0	0	-1.08	-0.44	1	0	-1	600	0	-600
1/25/2025 13:33	55002	NEWP_T1	7	9	2	0.81	0.98	0.17	-0.16	-0.17	0	0	0	0	0	0
1/25/2025 13:33	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/25/2025 13:34	51201	MTON_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 13:36	42902	MIDD_T2	127	186	59	0.39	0.5	0.11	-0.54	-0.51	0	0	0	0	0	0
1/25/2025 13:36	42903	MIDD_T2	81	137	56	0.4	0.51	0.11	0	0	0	0	0	0	0	0
1/25/2025 13:36	42901	MIDD_T2	233	325	92	0.33	0.45	0.12	0	0	0	0	0	0	0	0
1/25/2025 13:37	55002	NEWP_T1	7	9	2	0.81	0.98	0.17	-0.17	-0.16	0	0	0	0	0	0
1/25/2025 13:37	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/25/2025 13:39	59402	RFLD_T2	1	1	0	0.4	0.3	-0.1	-0.84	-0.84	1	1	0	450	450	0
1/25/2025 13:40	64101	REFR_T1	0	1	1	0	0.4	0.4	0.02	0.06	0	0	0	0	0	0
1/25/2025 13:41	59102	WALK_T2	33	44	11	0.36	0.38	0.02	0.29	0.29	0	0	0	0	0	0
1/25/2025 13:41	59101	WALK_T2	3	4	1	1.03	0.83	-0.2	0	0	0	0	0	0	0	0
1/25/2025 13:46	42901	MIDD_T2	270	325	55	0.39	0.46	0.07	0	0	0	0	0	0	0	0
1/25/2025 13:46	42903	MIDD_T2	107	137	30	0.5	0.5	0	0	0	0	0	0	0	0	0
1/25/2025 13:46	42902	MIDD_T2	150	188	38	0.46	0.52	0.06	-0.51	-0.57	0	0	0	0	0	0
1/25/2025 13:47	42901	MIDD_T2	270	325	55	0.39	0.46	0.07	0	0	0	0	0	0	0	0
1/25/2025 13:47	42903	MIDD_T2	107	137	30	0.5	0.5	0	0	0	0	0	0	0	0	0
1/25/2025 13:47	42902	MIDD_T2	150	188	38	0.46	0.52	0.06	-0.51	-0.57	0	0	0	0	0	0
1/25/2025 13:49	42902	MIDD_T2	150	188	38	0.46	0.52	0.06	-0.51	-0.57	0	0	0	0	0	0
1/25/2025 13:49	42903	MIDD_T2	107	137	30	0.5	0.5	0	0	0	0	0	0	0	0	0
1/25/2025 13:49	42901	MIDD_T2	270	325	55	0.39	0.46	0.07	0	0	0	0	0	0	0	0
1/25/2025 13:50	13202	PALM_T2	11	15	4	0.97	1	0.03	-1.44	-1.39	4	4	0	3600	3600	0
1/25/2025 13:53	42903	MIDD_T2	107	137	30	0.5	0.5	0	0	0	0	0	0	0	0	0
1/25/2025 13:53	42901	MIDD_T2	270	325	55	0.39	0.46	0.07	0	0	0	0	0	0	0	0
1/25/2025 13:53	42902	MIDD_T2	150	188	38	0.46	0.52	0.06	-0.57	-0.58	0	0	0	0	0	0
1/25/2025 13:57	61302	EARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/25/2025 13:57	61304	EARL_T1	58	45	-13	0.22	0.21	-0.01	-1.74	-1.74	2	2	0	1200	1200	0
1/25/2025 13:58	61302	EARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/25/2025 13:58	61304	EARL_T1	58	45	-13	0.22	0.21	-0.01	-0.87	-0.87	1	1	0	600	600	0
1/25/2025 14:00	61302	EARL_T1	0	0	0	0	0	0	0.23	0.1	1	1	0	1200	1200	0
1/25/2025 14:00	61304	EARL_T1	43	59	16	0.21	0.23	0.02	0	0	0	0	0	0	0	0
1/25/2025 14:00	25801	SUTR_T2	2	4	2	9.85	6.23	-3.62	-0.52	-0.53	0	0	0	0	0	0
1/25/2025 14:02	52404	GRPA_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/25/2025 14:02	52403	GRPA_T2	13	14	1	0.81	0.47	-0.34	-0.57	-0.53	0	0	0	0	0	0
1/25/2025 14:02	52401	GRPA_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/25/2025 14:02	65502	MOJO_T2	0	0	0	0	0	0	-1.71	-1.89	1	1	0	900	900	0
1/25/2025 14:02	52402	GRPA_T2	17	21	4	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
1/25/2025 14:04	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/25/2025 14:04	55002	NEWP_T1	7	7	0	1.07	1.1	0.03	-0.16	-0.18	0	0	0	0	0	0
1/25/2025 14:05	65502	MOJO_T2	0	0	0	0	0	0	-1.71	-1.89	1	1	0	900	900	0
1/25/2025 14:07	59402	RFLD_T2	1	0	-1	0.3	0	-0.3	-0.85	-0.86	1	1	0	450	450	0
1/25/2025 14:12	11102	EGYP_T1	8	8	0	0.74	0.35	-0.39	0	0	0	0	0	0	0	0
1/25/2025 14:12	11104	EGYP_T1	8	15	7	0.54	0.9	0.36	0.5	0.46	0	0	0	0	0	0
1/25/2025 14:16	63601	LETO_T1	0	0	0	0	0	0	0.72	0.8	1	1	0	900	900	0
1/25/2025 14:16	61001	DONV_T1	1	1	0	1	0.6	-0.4	-0.02	-0.04	0	0	0	0	0	0
1/25/2025 14:16	63501	HEID_TBK1-2	0	47	47	0	0.28	0.28	-0.41	-0.45	1	1	0	900	900	0
1/25/2025 14:24	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 14:24	66503	SMAN_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
1/25/2025 14:24	66505	SMAN_T2	2	3	1	0.2	0.2	0	0	0	0	0	0	0	0	0
1/25/2025 14:24	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/25/2025 14:27	61802	EELI_T2	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
1/25/2025 14:27	61801	EELI_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/25/2025 14:32	44501	HAMI_T2	4	8	4	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
1/25/2025 14:32	44503	HAMI_T2	0	0	0	0	0	0	-0.7	-0.83	0	0	0	0	0	0
1/25/2025 14:32	44502	HAMI_T2	1	2	1	1.8	2.2	0.4	0	0	0	0	0	0	0	0
1/25/2025 14:36	59402	RFLD_T2	0	0	0	0	0	0	-0.87	-0.9	1	1	0	450	450	0
1/25/2025 14:38	59402	RFLD_T2	0	0	0	0	0	0	-0.87	-0.9	1	1	0	450	450	0
1/25/2025 14:44	61304	EARL_T1	57	68	11	0.23	0.24	0.01	0	0	0	0	0	0	0	0
1/25/2025 14:44	61302	EARL_T1	0	1	1	0	0.1	0.1	0.2	0.18	1	1	0	1200	1200	0
1/25/2025 14:45	61304	EARL_T1	68	31	-37	0.24	0.22	-0.02	-0.86	-0.9	1	1	0	600	600	0
1/25/2025 14:45	61302	EARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/25/2025 14:52	66903	SHIL_T2	0	0	0	0	0	0	-3.58	-3.56	0	0	0	0	0	0
1/25/2025 14:53	66903	SHIL_T2	0	0	0	0	0	0	-1.79	-1.78	0	0	0	0	0	0
1/25/2025 15:05	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 15:08	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 15:15	54505	ENOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/25/2025 15:15	54503	ENOL_T2	0	0	0	0	0	0	-1.02	-1.01	1	1	0	600	600	0
1/25/2025 15:16	11504	FREE_T1	0	0	0	0	0	0	0.09	0.08	1	1	0	900	900	0
1/25/2025 15:17	63801	HEMP_T1	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
1/25/2025 15:17	63804	HEMP_T1	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
1/25/2025 15:20	40602	PIGR_T1	3	3	0	1.1	0.65	-0.45	0	0	0	0	0	0	0	0
1/25/2025 15:24	67703	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 15:24	67702	WERN_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
1/25/2025 15:30	12005	HATF_T1	3	2	-1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
1/25/2025 15:30	12006	HATF_T1	2	2	0	0.75	0.85	0.1	0.53	0.46	0	0	0	0	0	0
1/25/2025 15:32	64904	MILL_T1	0	0	0	0	0	0	-0.21	-0.17	0	0	0	0	0	0
1/25/2025 15:39	67103	SPRI_T1	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
1/25/2025 15:54	20402	ASHF_T2	6	20	14	0.25	0.43	0.18	0	0	0	0	0	0	0	0
1/25/2025 15:54	20403	ASHF_T2	1	1	0	0.4	0	-0.4	0.59	0.56	0	0	0	0	0	0
1/25/2025 15:54	20401	ASHF_T2	2	0	-2	1.4	0	-1.4	0	0	0	0	0	0	0	0
1/25/2025 15:55	46004	BERW_T2	3	15	12	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
1/25/2025 15:55	46002	BERW_T2	0	0	0	0	0	0	-1.36	-1.37	1	1	0	900	900	0
1/25/2025 16:02	44502	HAMI_T2	1	2	1	1.7	1.7	0	0	0	0	0	0	0	0	0
1/25/2025 16:02	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 16:02	44504	HAMI_T2	0	0	0	0	0	0	-1.15	-1.14	0	0	0	0	0	0
1/25/2025 16:12	46001	BERW_T1	5	2	-3	0.22	0	-0.22	0.8	0.68	0	0	0	0	0	0
1/25/2025 16:12	46005	BERW_T1	11	11	0	0.76	0.26	-0.5	0	0	0	0	0	0	0	0
1/25/2025 16:13	54505	ENOL_T2	1	1	0	0.3	0.1	-0.2	-1.21	-1.2	1	1	0	600	600	0
1/25/2025 16:15	54505	ENOL_T2	1	0	-1	0.1	0	-0.1	-1.21	-1.2	1	1	0	600	600	0
1/25/2025 16:18	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
1/25/2025 16:19	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
1/25/2025 16:38	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 16:42	64101	REFR_T1	0	0	0	0	0	0	0.05	0.09	0	0	0	0	0	0
1/25/2025 17:31	40603	PIGR_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 17:31	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 18:08	67103	SPRI_T1	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
1/25/2025 19:07	29402	BELT_T1	1	1	0	4	4.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:07	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/25/2025 19:09	26704	HEML_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
1/25/2025 19:10	42902	MIDD_T2	1	1	0	0.3	0.5	0.2	-0.55	-0.57	0	0	0	0	0	0
1/25/2025 19:10	42903	MIDD_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
1/25/2025 19:10	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:12	13302	ORVI_T2	212	220	8	0.3	0.3	0	0.06	0.1	0	0	0	0	0	0
1/25/2025 19:12	44502	HAMI_T2	1	1	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
1/25/2025 19:12	29402	BELT_T1	1	1	0	4	4.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:12	45501	DERR_T2	3	2	-1	0.17	0	-0.17	-0.62	-0.6	2	2	0	1800	1800	0
1/25/2025 19:12	44503	HAMI_T2	0	0	0	0	0	0	-0.83	-0.81	0	0	0	0	0	0
1/25/2025 19:12	45502	DERR_T2	4	4	0	0.53	0.65	0.12	0	0	0	0	0	0	0	0
1/25/2025 19:14	13105	NHAM_T2	17	17	0	4.52	4.09	-0.43	0	0	0	0	0	0	0	0
1/25/2025 19:14	13103	NHAM_T2	0	0	0	0	0	0	-1.47	-1.49	1	1	0	600	600	0
1/25/2025 19:15	16402	MOPO_T1	1	1	0	0.1	0.5	0.4	-0.74	-0.72	0	0	0	0	0	0
1/25/2025 19:15	46506	LOHA_T1	3	4	1	0.7	0.8	0.1	-0.03	0	0	0	0	0	0	0
1/25/2025 19:15	46206	DANV_T2	9	7	-2	0.63	0.2	-0.43	1.53	1.5	2	2	0	2100	2100	0
1/25/2025 19:15	46504	LOHA_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/25/2025 19:15	16401	MOPO_T1	3	7	4	0.27	0.4	0.13	0	0	0	0	0	0	0	0
1/25/2025 19:15	46501	LOHA_T1	6	5	-1	0.95	1.23	0.28	0	0	0	0	0	0	0	0
1/25/2025 19:15	46204	DANV_T2	12	4	-8	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
1/25/2025 19:15	46003	BERW_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
1/25/2025 19:15	59402	RFLD_T2	0	0	0	0	0	0	-0.87	-0.86	1	1	0	450	450	0
1/25/2025 19:15	46203	DANV_T2	9	8	-1	0.63	0.66	0.03	-2.61	-2.59	0	0	0	0	0	0
1/25/2025 19:15	46004	BERW_T2	40	34	-6	0.99	0.7	-0.29	-0.66	-0.67	0	0	0	0	0	0
1/25/2025 19:15	46002	BERW_T2	0	0	0	0	0	0	-1.39	-1.32	1	1	0	900	900	0
1/25/2025 19:15	44905	SCOT_T1	3	2	-1	0.73	0	-0.73	0	0	0	0	0	0	0	0
1/25/2025 19:16	12001	HATF_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:16	41902	REED_T1	6	8	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:16	25801	SUTR_T2	7	5	-2	2.99	4.63	1.64	-0.49	-0.48	0	0	0	0	0	0
1/25/2025 19:16	12005	HATF_T1	5	5	0	0.5	0.64	0.14	0	0	0	0	0	0	0	0
1/25/2025 19:16	11102	EGYP_T1	10	7	-3	0.48	0	-0.48	-0.08	-0.11	0	0	0	0	0	0
1/25/2025 19:16	13503	MCMI_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
1/25/2025 19:16	45501	DERR_T2	0	2	2	0	0	0	-1.24	-1.2	4	4	0	3600	3600	0
1/25/2025 19:16	42701	AUGU_T1	3	7	4	0.77	0.33	-0.44	0	0	0	0	0	0	0	0
1/25/2025 19:16	12004	HATF_T1	5	11	6	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:16	45302	WBER_T2	1	0	-1	0.4	0	-0.4	0.64	0.63	0	0	0	0	0	0
1/25/2025 19:16	13201	PALM_T1	39	36	-3	0.74	0.96	0.22	0	0	0	0	0	0	0	0
1/25/2025 19:16	29402	BELT_T1	1	1	0	4	4.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:16	12006	HATF_T1	2	2	0	1.45	0.9	-0.55	0.5	0.51	0	0	0	0	0	0
1/25/2025 19:16	66505	SMAN_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
1/25/2025 19:16	21504	CEAV_T1	0	0	0	0	0	0	1.3	1.35	0	0	0	0	0	0
1/25/2025 19:16	41903	REED_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	1200	1200	0
1/25/2025 19:16	66504	SMAN_T2	0	0	0	0	0	0	-3.22	-3.22	2	2	0	2400	2400	0
1/25/2025 19:16	13302	ORVI_T2	141	261	120	0.34	0.38	0.04	0.06	0.1	0	0	0	0	0	0
1/25/2025 19:16	45502	DERR_T2	4	4	0	0.83	0.58	-0.25	0	0	0	0	0	0	0	0
1/25/2025 19:16	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/25/2025 19:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:16	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:16	11103	EGYP_T1	9	3	-6	0.68	0.4	-0.28	0	0	0	0	0	0	0	0
1/25/2025 19:17	15602	NSTR_T2	0	0	0	0	0	0	-0.99	-0.96	0	0	0	0	0	0
1/25/2025 19:17	66903	SHIL_T2	0	0	0	0	0	0	-1.87	-1.88	0	0	0	0	0	0
1/25/2025 19:17	66902	SHIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:17	52502	PROG_T2	0	0	0	0	0	0	-0.35	-0.32	1	1	0	900	900	0
1/25/2025 19:17	45502	DERR_T2	4	4	0	0.83	0.58	-0.25	-0.56	-0.56	0	0	0	0	0	0
1/25/2025 19:17	45602	WOOL_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
1/25/2025 19:17	22602	KIMB_T1	0	1	1	0	0	0	0.14	0.15	0	0	0	0	0	0
1/25/2025 19:17	65004	NEFF_T2	0	0	0	0	0	0	-1.04	-1	1	1	0	600	600	0
1/25/2025 19:17	45501	DERR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:17	15601	NSTR_T2	30	44	14	0.53	0.49	-0.04	0	0	0	0	0	0	0	0
1/25/2025 19:17	23401	HONE_T2	4	2	-2	0.6	0.7	0.1	0.01	-0.01	0	0	0	0	0	0
1/25/2025 19:17	53501	EVIL_T2	1	1	0	0.1	0.3	0.2	-1.19	-1.19	1	1	0	600	600	0
1/25/2025 19:17	15603	NSTR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:17	40201	BEGA_T2	2	3	1	2.55	1.4	-1.15	0	0	0	0	0	0	0	0
1/25/2025 19:17	65001	NEFF_T2	27	54	27	0.13	0.14	0.01	0	0	0	0	0	0	0	0
1/25/2025 19:18	44902	SCOT_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:18	44901	SCOT_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
1/25/2025 19:18	10805	CHHI_T2	6	10	4	1.4	1.32	-0.08	-1.02	-0.98	1	1	0	600	600	0
1/25/2025 19:18	40601	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:18	40101	HUNT_T2	442	439	-3	1.04	1.07	0.03	-0.65	-0.64	0	0	0	0	0	0
1/25/2025 19:18	45501	DERR_T2	0	2	2	0	0	0	-0.62	-0.6	2	2	0	1800	1800	0
1/25/2025 19:18	11504	FREE_T1	0	0	0	0	0	0	-1.27	-1.26	1	1	0	900	900	0
1/25/2025 19:18	61303	EARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/25/2025 19:18	11502	FREE_T1	1	1	0	0.9	1.8	0.9	0	0	0	0	0	0	0	0
1/25/2025 19:18	41602	CLEV_T1	2	1	-1	0.3	0	-0.3	0	0	1	1	0	600	600	0
1/25/2025 19:18	40201	BEGA_T2	2	3	1	2.55	1.4	-1.15	0	0	0	0	0	0	0	0
1/25/2025 19:18	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:18	45502	DERR_T2	4	4	0	0.83	0.58	-0.25	0	0	0	0	0	0	0	0
1/25/2025 19:18	13702	SCHN_T1	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0	0
1/25/2025 19:18	59101	WALK_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:18	16102	BING_T2	0	0	0	0	0	0	0.05	0.07	0	0	0	0	0	0
1/25/2025 19:18	53902	HALI_T2	1	1	0	4.7	4.7	0	0	0	0	0	0	0	0	0
1/25/2025 19:18	40603	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:18	61304	EARL_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
1/25/2025 19:18	53901	HALI_T2	0	0	0	0	0	0	-1.35	-1.35	0	0	0	0	0	0
1/25/2025 19:18	44502	HAMI_T2	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:18	55002	NEWP_T1	5	5	0	0.74	0.78	0.04	-0.15	-0.17	0	0	0	0	0	0
1/25/2025 19:18	59102	WALK_T2	12	22	10	0.18	0.26	0.08	0.28	0.26	0	0	0	0	0	0
1/25/2025 19:19	63501	HEID_TBK1-2	18	37	19	0.28	0.24	-0.04	-0.41	-0.42	1	1	0	900	900	0
1/25/2025 19:19	64401	LAND_T1	0	0	0	0	0	0	-1.04	-1.04	1	1	0	600	600	0
1/25/2025 19:19	52502	PROG_T2	0	0	0	0	0	0	-0.35	-0.32	1	1	0	900	900	0
1/25/2025 19:19	44301	BEAV_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/25/2025 19:19	57702	PAXT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:19	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
1/25/2025 19:19	47101	MARL_T1	167	168	1	1.31	1.11	-0.2	-1.7	-1.78	1	1	0	600	600	0
1/25/2025 19:20	63501	HEID_TBK1-2	18	37	19	0.28	0.24	-0.04	-0.41	-0.42	1	1	0	900	900	0
1/25/2025 19:20	61303	EARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/25/2025 19:20	53902	HALI_T2	1	1	0	4.7	4.7	0	-0.84	-0.88	0	0	0	0	0	0
1/25/2025 19:20	10801	CHHI_T1	2	1	-1	0.3	0	-0.3	-1.26	-1.27	2	2	0	1500	1500	0
1/25/2025 19:20	45802	HEGI_T2	42	47	5	0.52	0.82	0.3	0.69	0.69	0	0	0	0	0	0
1/25/2025 19:20	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
1/25/2025 19:20	46504	LOHA_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/25/2025 19:20	48302	ORWI_T2	2	2	0	0.35	0.45	0.1	-1.18	-1.12	0	0	0	0	0	0
1/25/2025 19:20	61302	EARL_T1	0	0	0	0	0	0	0.32	0.13	1	1	0	1200	1200	0
1/25/2025 19:20	11102	EGYP_T1	10	7	-3	0.48	0	-0.48	-0.08	-0.11	0	0	0	0	0	0
1/25/2025 19:20	16103	BING_T2	0	0	0	0	0	0	-4.02	-4.09	4	4	0	3000	3000	0
1/25/2025 19:20	42901	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/25/2025 19:20	46501	LOHA_T1	6	5	-1	0.95	1.23	0.28	0	0	0	0	0	0	0	0
1/25/2025 19:20	46506	LOHA_T1	3	4	1	0.7	0.8	0.1	-0.06	0	0	0	0	0	0	0
1/25/2025 19:20	11103	EGYP_T1	9	3	-6	0.68	0.4	-0.28	0	0	0	0	0	0	0	0
1/25/2025 19:20	42902	MIDD_T2	1	1	0	1	0	-1	-0.55	-0.57	0	0	0	0	0	0
1/25/2025 19:20	44301	BEAV_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/25/2025 19:20	44302	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:20	42903	MIDD_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
1/25/2025 19:20	44801	EDAN_T2	1	1	0	0.4	0	-0.4	-0.29	-0.24	0	0	0	0	0	0
1/25/2025 19:20	61701	ELIZ_T1	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:20	61703	ELIZ_T1	0	0	0	0	0	0	-0.94	-0.6	1	1	0	900	900	0
1/25/2025 19:20	55002	NEWP_T1	5	5	0	0.74	0.78	0.04	-0.15	-0.17	0	0	0	0	0	0
1/25/2025 19:21	24105	EHAZ_T1	38	38	0	2.25	1.74	-0.51	0	0	0	0	0	0	0	0
1/25/2025 19:21	45802	HEGI_T2	42	47	5	0.52	0.82	0.3	0.69	0.69	0	0	0	0	0	0
1/25/2025 19:21	42901	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/25/2025 19:21	24104	EHAZ_T1	0	0	0	0	0	0	-2.15	-2.16	1	1	0	1200	1200	0
1/25/2025 19:21	42903	MIDD_T2	2	2	0	0.55	0.55	0	-1.42	-1.46	1	1	0	1200	1200	0
1/25/2025 19:21	44902	SCOT_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:21	24102	EHAZ_T1	5	9	4	1.34	0.63	-0.71	0	0	0	0	0	0	0	0
1/25/2025 19:21	42902	MIDD_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
1/25/2025 19:21	63601	LETO_T1	0	0	0	0	0	0	0.05	0.17	1	1	0	900	900	0
1/25/2025 19:21	43201	MVIL_T2	0	0	0	0	0	0	-0.3	-0.33	0	0	0	0	0	0
1/25/2025 19:21	44703	MUNC_T2	6	3	-3	0.72	1.05	0.33	0	0	0	0	0	0	0	0
1/25/2025 19:21	40201	BEGA_T2	2	3	1	2.55	1.4	-1.15	0	0	0	0	0	0	0	0
1/25/2025 19:21	44901	SCOT_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
1/25/2025 19:21	60502	NMAN_T2	0	0	0	0	0	0	-0.66	-0.82	0	0	0	0	0	0
1/25/2025 19:21	53902	HALI_T2	1	1	0	4.7	4.7	0	-0.88	-0.89	0	0	0	0	0	0
1/25/2025 19:21	24101	EHAZ_T1	71	69	-2	2.58	1.95	-0.63	0	0	0	0	0	0	0	0
1/25/2025 19:21	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:21	44701	MUNC_T2	1	14	13	1	0.34	-0.66	-1.24	-1.22	0	0	0	0	0	0
1/25/2025 19:21	24103	EHAZ_T1	19	19	0	0.91	0.15	-0.76	0	0	0	0	0	0	0	0
1/25/2025 19:21	43202	MVIL_T2	1	2	1	0.8	0.8	0	0	0	0	0	0	0	0	0
1/25/2025 19:21	22602	KIMB_T1	0	1	1	0	0	0	0.15	0.14	0	0	0	0	0	0
1/25/2025 19:21	13503	MCMI_T2	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
1/25/2025 19:22	13302	ORVI_T2	141	261	120	0.34	0.38	0.04	0.1	0.11	0	0	0	0	0	0
1/25/2025 19:22	43401	BENT_T1	6	0	-6	1.12	0	-1.12	0	0	0	0	0	0	0	0
1/25/2025 19:22	42901	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/25/2025 19:22	11102	EGYP_T1	10	7	-3	0.48	0	-0.48	0	0	0	0	0	0	0	0
1/25/2025 19:22	63804	HEMP_T1	1	1	0	6.1	6.2	0.1	0.63	0.64	0	0	0	0	0	0
1/25/2025 19:22	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:22	23401	HONE_T2	4	2	-2	0.6	0.7	0.1	-0.01	0.01	0	0	0	0	0	0
1/25/2025 19:22	43402	BENT_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	900	900	0
1/25/2025 19:22	66902	SHIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:22	42902	MIDD_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
1/25/2025 19:22	46203	DANV_T2	9	8	-1	0.63	0.66	0.03	-2.59	-2.56	0	0	0	0	0	0
1/25/2025 19:22	55001	NEWP_T1	0	0	0	0	0	0	-1.56	-1.6	2	2	0	1200	1200	0
1/25/2025 19:22	11104	EGYP_T1	0	0	0	0	0	0	-0.27	-0.34	1	1	0	900	900	0
1/25/2025 19:22	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:22	10801	CHHI_T1	2	1	-1	0.3	0	-0.3	-1.27	-1.29	2	2	0	1500	1500	0
1/25/2025 19:22	66903	SHIL_T2	0	0	0	0	0	0	-1.88	-1.87	0	0	0	0	0	0
1/25/2025 19:22	61303	EARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/25/2025 19:22	60101	COCA_T1	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
1/25/2025 19:22	55002	NEWP_T1	5	5	0	0.74	0.78	0.04	0	0	0	0	0	0	0	0
1/25/2025 19:22	41902	REED_T1	6	8	2	0.2	0.3	0.1	0.2	0.08	1	1	0	900	900	0
1/25/2025 19:22	46206	DANV_T2	9	7	-2	0.63	0.2	-0.43	0	0	0	0	0	0	0	0
1/25/2025 19:22	49803	UNIV_T1	1	1	0	6	6	0	-0.92	-0.85	0	0	0	0	0	0
1/25/2025 19:22	61306	EARL_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
1/25/2025 19:22	20401	ASHF_T2	3	4	1	0.3	0.78	0.48	-0.72	-0.75	1	1	0	600	600	0
1/25/2025 19:22	11103	EGYP_T1	9	3	-6	0.68	0.4	-0.28	0	0	0	0	0	0	0	0
1/25/2025 19:22	61304	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:22	46204	DANV_T2	12	4	-8	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
1/25/2025 19:22	20402	ASHF_T2	141	128	-13	0.49	0.39	-0.1	0	0	0	0	0	0	0	0
1/25/2025 19:22	16201	POFA_T2	2	2	0	1.75	1.3	-0.45	0	0	0	0	0	0	0	0
1/25/2025 19:22	42903	MIDD_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
1/25/2025 19:22	64305	LINC_T1	0	0	0	0	0	0	-0.55	-0.61	0	0	0	0	0	0
1/25/2025 19:23	46203	DANV_T2	9	8	-1	0.63	0.66	0.03	-2.59	-2.56	0	0	0	0	0	0
1/25/2025 19:23	61301	EARL_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
1/25/2025 19:23	42902	MIDD_T2	1	1	0	1	0	-1	-1.14	-1.16	0	0	0	0	0	0
1/25/2025 19:23	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:23	57002	WHHI_T2	0	0	0	0	0	0	-2.51	-2.43	1	1	0	1200	1200	0
1/25/2025 19:23	42903	MIDD_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
1/25/2025 19:23	22805	HAUT_T2	317	282	-35	1.37	1.57	0.2	-1.09	-1.09	1	1	0	1200	1200	0
1/25/2025 19:23	66504	SMAN_T2	0	0	0	0	0	0	-1.61	-1.61	1	1	0	1200	1200	0
1/25/2025 19:23	22803	HAUT_T2	110	119	9	1.5	1.36	-0.14	0	0	0	0	0	0	0	0
1/25/2025 19:23	40601	PIGR_T1	0	2	2	0	0.1	0.1	-0.08	-0.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/25/2025 19:23	20403	ASHF_T2	0	0	0	0	0	0	0.71	0.68	0	0	0	0	0	0
1/25/2025 19:23	20402	ASHF_T2	141	128	-13	0.49	0.39	-0.1	0	0	0	0	0	0	0	0
1/25/2025 19:23	65702	RVIL_T2	0	0	0	0	0	0	-1.45	-1.49	0	0	0	0	0	0
1/25/2025 19:23	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:23	60902	DONG_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
1/25/2025 19:23	53501	EVIL_T2	1	1	0	0.1	0.3	0.2	-2.38	-2.38	2	2	0	1200	1200	0
1/25/2025 19:23	61303	EARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/25/2025 19:23	46204	DANV_T2	12	4	-8	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
1/25/2025 19:23	20401	ASHF_T2	3	4	1	0.3	0.78	0.48	0	0	0	0	0	0	0	0
1/25/2025 19:23	42901	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/25/2025 19:23	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:23	66505	SMAN_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
1/25/2025 19:23	17802	GILB_T1	6	10	4	0.67	0.37	-0.3	0.38	0.36	0	0	0	0	0	0
1/25/2025 19:23	63501	HEID_TBK1-2	18	37	19	0.28	0.24	-0.04	-0.42	-0.39	1	1	0	900	900	0
1/25/2025 19:23	44801	EDAN_T2	1	1	0	0.4	0	-0.4	-0.24	-0.31	0	0	0	0	0	0
1/25/2025 19:23	55002	NEWP_T1	5	5	0	0.74	0.78	0.04	-0.17	-0.18	0	0	0	0	0	0
1/25/2025 19:23	46206	DANV_T2	9	7	-2	0.63	0.2	-0.43	0	0	0	0	0	0	0	0
1/25/2025 19:23	60404	DILL_T2	0	0	0	0	0	0	-0.92	-0.94	1	1	0	1200	1200	0
1/25/2025 19:24	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:24	46206	DANV_T2	9	7	-2	0.63	0.2	-0.43	1.5	1.4	2	2	0	2100	2100	0
1/25/2025 19:24	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:24	46203	DANV_T2	9	8	-1	0.63	0.66	0.03	0	0	0	0	0	0	0	0
1/25/2025 19:24	53902	HALI_T2	1	1	0	4.7	4.7	0	-0.88	-0.89	0	0	0	0	0	0
1/25/2025 19:24	40601	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:24	13503	MCMI_T2	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
1/25/2025 19:24	22805	HAUT_T2	317	282	-35	1.37	1.57	0.2	0	0	0	0	0	0	0	0
1/25/2025 19:24	41902	REED_T1	6	8	2	0.2	0.3	0.1	0.2	0.08	1	1	0	900	900	0
1/25/2025 19:24	44302	BEAV_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
1/25/2025 19:24	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:24	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:24	22803	HAUT_T2	110	119	9	1.5	1.36	-0.14	0	0	0	0	0	0	0	0
1/25/2025 19:24	13201	PALM_T1	39	36	-3	0.74	0.96	0.22	-0.32	-0.33	0	0	0	0	0	0
1/25/2025 19:24	46204	DANV_T2	12	4	-8	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
1/25/2025 19:24	61304	EARL_T1	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
1/25/2025 19:24	61303	EARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/25/2025 19:24	65703	RVIL_T1	0	0	0	0	0	0	-1.23	-1.25	1	1	0	900	900	0
1/25/2025 19:24	44301	BEAV_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/25/2025 19:24	53901	HALI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:24	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:24	63501	HEID_TBK1-2	18	37	19	0.28	0.24	-0.04	-0.42	-0.39	1	1	0	900	900	0
1/25/2025 19:24	59402	RFLD_T2	0	0	0	0	0	0	-0.86	-0.88	1	1	0	450	450	0
1/25/2025 19:25	64101	REFR_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
1/25/2025 19:25	67703	WERN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:25	67702	WERN_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
1/25/2025 19:25	41902	REED_T1	6	8	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:25	54603	SUMM_T2	0	0	0	0	0	0	-1.31	-1.31	1	1	0	900	900	0
1/25/2025 19:25	63501	HEID_TBK1-2	18	37	19	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
1/25/2025 19:25	65205	PRIN_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
1/25/2025 19:25	55002	NEWP_T1	5	5	0	0.74	0.78	0.04	-0.17	-0.18	0	0	0	0	0	0
1/25/2025 19:25	52403	GRPA_T2	60	75	15	0.59	0.65	0.06	0	0	0	0	0	0	0	0
1/25/2025 19:25	63305	GREE_T1	3	4	1	0.33	0.3	-0.03	-2.54	-2.55	1	1	0	900	900	0
1/25/2025 19:25	60201	ATGL_T2	0	0	0	0	0	0	0.81	0.81	0	0	0	0	0	0
1/25/2025 19:25	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:25	65502	MOJO_T2	0	0	0	0	0	0	-1.07	-1.09	0	0	0	0	0	0
1/25/2025 19:25	44902	SCOT_T2	0	1	1	0	0.1	0.1	-0.92	-0.89	0	0	0	0	0	0
1/25/2025 19:25	52402	GRPA_T2	35	45	10	1.02	0.94	-0.08	0	0	0	0	0	0	0	0
1/25/2025 19:25	41903	REED_T1	0	0	0	0	0	0	-0.47	-0.49	1	1	0	1200	1200	0
1/25/2025 19:25	52401	GRPA_T2	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
1/25/2025 19:25	57704	PAXT_T2	0	0	0	0	0	0	-0.37	-0.42	1	1	0	900	900	0
1/25/2025 19:26	13704	SCHN_T2	1	1	0	0.1	0.4	0.3	-1.4	-1.38	0	0	0	0	0	0
1/25/2025 19:26	52001	LING_T1	0	1	1	0	0	0	-0.9	-0.87	0	0	0	0	0	0
1/25/2025 19:26	66203	SISP_T2	0	0	0	0	0	0	-1.36	-1.34	2	2	0	1800	1800	0
1/25/2025 19:26	46204	DANV_T2	12	4	-8	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
1/25/2025 19:26	41902	REED_T1	6	8	2	0.2	0.3	0.1	0.2	0.08	1	1	0	900	900	0
1/25/2025 19:26	51201	MTON_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:26	46005	BERW_T1	11	11	0	2.55	2.68	0.13	0	0	0	0	0	0	0	0
1/25/2025 19:26	61702	ELIZ_T2	0	0	0	0	0	0	-0.7	-0.68	1	1	0	300	300	0
1/25/2025 19:26	61303	EARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/25/2025 19:26	53501	EVIL_T2	1	1	0	0.1	0.3	0.2	-1.19	-1.19	1	1	0	600	600	0
1/25/2025 19:26	11102	EGYP_T1	10	7	-3	0.48	0	-0.48	-0.11	-0.12	0	0	0	0	0	0
1/25/2025 19:26	63501	HEID_TBK1-2	18	37	19	0.28	0.24	-0.04	-0.42	-0.39	1	1	0	900	900	0
1/25/2025 19:26	59102	WALK_T2	12	22	10	0.18	0.26	0.08	0	0	0	0	0	0	0	0
1/25/2025 19:26	44902	SCOT_T2	0	1	1	0	0.1	0.1	-0.92	-0.89	0	0	0	0	0	0
1/25/2025 19:26	46001	BERW_T1	0	1	1	0	0	0	0.72	0.77	0	0	0	0	0	0
1/25/2025 19:26	59101	WALK_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:26	61302	EARL_T1	0	0	0	0	0	0	0.13	0.17	1	1	0	1200	1200	0
1/25/2025 19:26	57702	PAXT_T1	0	0	0	0	0	0	-0.68	-0.63	0	0	0	0	0	0
1/25/2025 19:26	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:26	46203	DANV_T2	9	8	-1	0.63	0.66	0.03	-5.18	-5.12	0	0	0	0	0	0
1/25/2025 19:26	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:26	46206	DANV_T2	9	7	-2	0.63	0.2	-0.43	1.5	1.4	2	2	0	2100	2100	0
1/25/2025 19:26	11103	EGYP_T1	9	3	-6	0.68	0.4	-0.28	0	0	0	0	0	0	0	0
1/25/2025 19:27	52402	GRPA_T2	35	45	10	1.02	0.94	-0.08	0	0	0	0	0	0	0	0
1/25/2025 19:27	54603	SUMM_T2	0	0	0	0	0	0	-1.31	-1.31	1	1	0	900	900	0
1/25/2025 19:27	52401	GRPA_T2	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
1/25/2025 19:27	61303	EARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/25/2025 19:27	44905	SCOT_T1	3	2	-1	0.73	0	-0.73	0	0	0	0	0	0	0	0
1/25/2025 19:27	63802	HEMP_T1	0	0	0	0	0	0	0.19	0.25	0	0	0	0	0	0
1/25/2025 19:27	54503	ENOL_T2	0	0	0	0	0	0	-0.99	-0.99	1	1	0	600	600	0
1/25/2025 19:27	57306	MOAL_T2	0	0	0	0	0	0	-2.88	-2.91	1	1	0	1200	1200	0
1/25/2025 19:27	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:27	61304	EARL_T1	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
1/25/2025 19:27	52403	GRPA_T2	60	75	15	0.59	0.65	0.06	0	0	0	0	0	0	0	0
1/25/2025 19:27	61802	EELI_T2	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
1/25/2025 19:27	63804	HEMP_T1	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:27	59402	RFLD_T2	0	0	0	0	0	0	-0.86	-0.88	1	1	0	450	450	0
1/25/2025 19:27	49803	UNIV_T1	1	1	0	6	6	0	-0.92	-0.85	0	0	0	0	0	0
1/25/2025 19:27	57303	MOAL_T2	1	1	0	8.2	8.2	0	0	0	0	0	0	0	0	0
1/25/2025 19:28	66903	SHIL_T2	0	0	0	0	0	0	-3.76	-3.74	0	0	0	0	0	0
1/25/2025 19:28	64403	LAND_T1	0	0	0	0	0	0	-1.77	-1.77	1	1	0	900	900	0
1/25/2025 19:28	40601	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:28	52402	GRPA_T2	35	45	10	1.02	0.94	-0.08	0	0	0	0	0	0	0	0
1/25/2025 19:28	53902	HALI_T2	1	1	0	4.7	4.7	0	0	0	0	0	0	0	0	0
1/25/2025 19:28	42902	MIDD_T2	1	1	0	1	0	-1	-0.57	-0.58	0	0	0	0	0	0
1/25/2025 19:28	52403	GRPA_T2	60	75	15	0.59	0.65	0.06	-0.36	-0.29	0	0	0	0	0	0
1/25/2025 19:28	46206	DANV_T2	9	7	-2	0.63	0.2	-0.43	0	0	0	0	0	0	0	0
1/25/2025 19:28	42901	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/25/2025 19:28	11102	EGYP_T1	10	7	-3	0.48	0	-0.48	0	0	0	0	0	0	0	0
1/25/2025 19:28	66505	SMAN_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
1/25/2025 19:28	46203	DANV_T2	9	8	-1	0.63	0.66	0.03	-2.59	-2.56	0	0	0	0	0	0
1/25/2025 19:28	66902	SHIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:28	11104	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:28	61304	EARL_T1	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
1/25/2025 19:28	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
1/25/2025 19:28	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:28	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:28	49804	UNIV_T1	0	0	0	0	0	0	0.6	0.55	0	0	0	0	0	0
1/25/2025 19:28	42903	MIDD_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
1/25/2025 19:28	46204	DANV_T2	12	4	-8	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
1/25/2025 19:28	44901	SCOT_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
1/25/2025 19:28	11103	EGYP_T1	9	3	-6	0.68	0.4	-0.28	0	0	0	0	0	0	0	0
1/25/2025 19:28	65702	RVIL_T2	0	0	0	0	0	0	-1.45	-1.49	0	0	0	0	0	0
1/25/2025 19:28	49803	UNIV_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
1/25/2025 19:28	44902	SCOT_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:28	61303	EARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/25/2025 19:28	53903	HALI_T2	0	0	0	0	0	0	-0.18	-0.16	0	0	0	0	0	0
1/25/2025 19:28	66503	SMAN_T2	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
1/25/2025 19:28	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:29	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:29	20602	GRWO_T2	6	0	-6	0.72	0	-0.72	0	0	0	0	0	0	0	0
1/25/2025 19:29	20603	GRWO_T2	36	40	4	1.23	0.79	-0.44	0	0	0	0	0	0	0	0
1/25/2025 19:29	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:29	20601	GRWO_T2	3	2	-1	0.83	0.9	0.07	-0.07	-0.06	0	0	0	0	0	0
1/25/2025 19:29	42903	MIDD_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
1/25/2025 19:29	59102	WALK_T2	12	22	10	0.18	0.26	0.08	0.26	0.3	0	0	0	0	0	0
1/25/2025 19:29	59101	WALK_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:29	67402	WAKE_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
1/25/2025 19:29	42901	MIDD_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/25/2025 19:29	42902	MIDD_T2	1	1	0	1	0	-1	-0.57	-0.58	0	0	0	0	0	0
1/25/2025 19:30	53802	MBRG_T2	1	0	-1	0.2	0	-0.2	0.24	0.23	0	0	0	0	0	0
1/25/2025 19:30	40201	BEGA_T2	2	3	1	1.85	1.55	-0.3	0	0	0	0	0	0	0	0
1/25/2025 19:30	46203	DANV_T2	8	7	-1	0.58	0.56	-0.02	0	0	0	0	0	0	0	0
1/25/2025 19:30	46204	DANV_T2	3	6	3	0.27	0.3	0.03	0	0	0	0	0	0	0	0
1/25/2025 19:30	65502	MOJO_T2	0	0	0	0	0	0	-1.07	-1.09	0	0	0	0	0	0
1/25/2025 19:30	61001	DONV_T1	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
1/25/2025 19:30	46206	DANV_T2	6	2	-4	0.33	0.2	-0.13	1.5	1.4	2	2	0	2100	2100	0
1/25/2025 19:30	60101	COCA_T1	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
1/25/2025 19:31	52403	GRPA_T2	75	52	-23	0.78	0.86	0.08	-0.36	-0.29	0	0	0	0	0	0
1/25/2025 19:31	57505	LAWN_T3	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
1/25/2025 19:31	51202	MTON_T2	0	0	0	0	0	0	-0.94	-0.94	1	1	0	1200	1200	0
1/25/2025 19:31	52402	GRPA_T2	41	48	7	0.9	0.71	-0.19	0	0	0	0	0	0	0	0
1/25/2025 19:31	61304	EARL_T1	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
1/25/2025 19:31	61303	EARL_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/25/2025 19:31	57502	LAWN_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:31	64101	REFR_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
1/25/2025 19:32	53501	EVIL_T2	1	2	1	0.3	0.2	-0.1	-1.19	-1.19	1	1	0	600	600	0
1/25/2025 19:32	64201	KINZ_T1	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
1/25/2025 19:32	64203	KINZ_T1	2	2	0	0.4	0.5	0.1	0.36	0.31	0	0	0	0	0	0
1/25/2025 19:32	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:32	64204	KINZ_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/25/2025 19:32	53502	EVIL_T2	0	11	11	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:32	64202	KINZ_T1	1	1	0	1.8	0	-1.8	0	0	0	0	0	0	0	0
1/25/2025 19:32	52501	PROG_T1	0	0	0	0	0	0	-1.09	-1.1	1	1	0	300	300	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/25/2025 19:32	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
1/25/2025 19:33	64101	REFR_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
1/25/2025 19:33	54502	ENOL_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/25/2025 19:33	61701	ELIZ_T1	1	1	0	6	6.2	0.2	0	0	0	0	0	0	0	0
1/25/2025 19:33	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:33	55105	WERT_T1	0	0	0	0	0	0	-0.3	-0.36	1	1	0	900	900	0
1/25/2025 19:33	54505	ENOL_T2	0	0	0	0	0	0	-1.09	-1.1	1	1	0	600	600	0
1/25/2025 19:33	67402	WAKE_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
1/25/2025 19:33	61703	ELIZ_T1	0	0	0	0	0	0	-0.6	-0.79	1	1	0	900	900	0
1/25/2025 19:34	44302	BEAV_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
1/25/2025 19:34	63804	HEMP_T1	1	7	6	6.2	6.3	0.1	0	0	0	0	0	0	0	0
1/25/2025 19:34	63801	HEMP_T1	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
1/25/2025 19:34	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2025 19:34	44301	BEAV_T2	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
1/25/2025 19:35	63302	GREE_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
1/25/2025 19:35	63305	GREE_T1	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/25/2025 19:41	44302	BEAV_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
1/25/2025 19:41	44301	BEAV_T2	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
1/25/2025 23:40	64904	MILL_T1	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
1/26/2025 8:01	26704	HEML_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
1/26/2025 10:27	63501	HEID_TBK1-2	51	58	7	0.54	0.54	0	-0.53	-0.57	1	1	0	900	900	0
1/26/2025 10:27	45501	DERR_T2	0	0	0	0	0	0	-0.81	-0.76	2	2	0	1800	1800	0
1/26/2025 10:29	59402	RFLD_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/26/2025 10:30	64201	KINZ_T1	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
1/26/2025 10:30	64204	KINZ_T1	1	26	25	0.2	0.37	0.17	0	0	0	0	0	0	0	0
1/26/2025 10:30	64203	KINZ_T1	0	4	4	0	0	0	0.26	0.29	0	0	0	0	0	0
1/26/2025 10:30	13503	MCMI_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
1/26/2025 10:30	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/26/2025 10:32	13503	MCMI_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
1/26/2025 10:33	44902	SCOT_T2	4	108	104	0.35	0.13	-0.22	-0.93	-0.96	0	0	0	0	0	0
1/26/2025 10:33	44901	SCOT_T2	121	149	28	0.39	0.51	0.12	0	0	0	0	0	0	0	0
1/26/2025 10:33	59402	RFLD_T2	0	2	2	0	0.3	0.3	-1.82	-1.82	2	2	0	900	900	0
1/26/2025 10:34	59402	RFLD_T2	0	2	2	0	0.3	0.3	-0.91	-0.91	1	1	0	450	450	0
1/26/2025 10:34	44902	SCOT_T2	4	108	104	0.35	0.13	-0.22	-0.93	-0.96	0	0	0	0	0	0
1/26/2025 10:34	44901	SCOT_T2	121	149	28	0.39	0.51	0.12	-0.44	-0.47	0	0	0	0	0	0
1/26/2025 10:36	10801	CHHI_T1	1	1	0	0.7	1	0.3	-1.5	-1.49	2	2	0	1500	1500	0
1/26/2025 10:36	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 10:36	13503	MCMI_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
1/26/2025 10:36	44902	SCOT_T2	4	108	104	0.35	0.13	-0.22	0	0	0	0	0	0	0	0
1/26/2025 10:36	44901	SCOT_T2	121	149	28	0.39	0.51	0.12	-0.44	-0.47	0	0	0	0	0	0
1/26/2025 10:37	46004	BERW_T2	1	3	2	0.1	0	-0.1	-0.75	-0.74	0	0	0	0	0	0
1/26/2025 10:37	60201	ATGL_T2	10	29	19	0.36	0.32	-0.04	0.64	0.74	0	0	0	0	0	0
1/26/2025 10:38	16101	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/26/2025 10:38	10801	CHHI_T1	1	1	0	0.7	1	0.3	-1.5	-1.49	2	2	0	1500	1500	0
1/26/2025 10:38	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 10:38	29402	BELT_T1	1	1	0	4.2	4.8	0.6	0	0	0	0	0	0	0	0
1/26/2025 10:39	44801	EDAN_T2	1	2	1	0.4	0.2	-0.2	-0.42	-0.46	0	0	0	0	0	0
1/26/2025 10:39	51802	EBEN_T2	0	2	2	0	0.8	0.8	-0.3	-0.54	1	1	0	900	900	0
1/26/2025 10:40	26704	HEML_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
1/26/2025 10:41	67401	WAKE_T2	4	26	22	0.15	0.2	0.05	-0.88	-1.15	0	0	0	0	0	0
1/26/2025 10:43	13503	MCMI_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
1/26/2025 10:44	13301	ORVI_T1	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
1/26/2025 10:44	42601	TUSC_T1	141	157	16	1.48	1.43	-0.05	-0.35	-0.27	2	2	0	1800	1800	0
1/26/2025 10:45	67401	WAKE_T2	11	27	16	0.12	0.2	0.08	0	0	0	0	0	0	0	0
1/26/2025 10:45	67402	WAKE_T2	0	0	0	0	0	0	0.64	0.69	0	0	0	0	0	0
1/26/2025 10:46	44902	SCOT_T2	34	128	94	0.11	0.15	0.04	0	0	0	0	0	0	0	0
1/26/2025 10:46	44901	SCOT_T2	117	209	92	0.34	0.62	0.28	-0.47	-0.47	0	0	0	0	0	0
1/26/2025 10:48	53902	HALI_T2	1	1	0	5.3	5.3	0	-1.94	-1.82	0	0	0	0	0	0
1/26/2025 10:48	53901	HALI_T2	1	2	1	0.5	0.15	-0.35	-1.39	-1.33	0	0	0	0	0	0
1/26/2025 10:48	53903	HALI_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
1/26/2025 10:50	13103	NHAM_T2	0	0	0	0	0	0	-1.61	-1.63	1	1	0	600	600	0
1/26/2025 10:50	13105	NHAM_T2	17	17	0	1.89	1.12	-0.77	0	0	0	0	0	0	0	0
1/26/2025 10:50	51802	EBEN_T2	1	2	1	0.8	0	-0.8	-0.3	-0.54	1	1	0	900	900	0
1/26/2025 10:51	23401	HONE_T2	6	4	-2	0.4	0	-0.4	-0.02	0.01	0	0	0	0	0	0
1/26/2025 10:52	44201	POIN_T1	0	21	21	0	0.11	0.11	-1.97	-1.99	1	1	0	1200	1200	0
1/26/2025 10:53	53903	HALI_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
1/26/2025 10:53	53902	HALI_T2	1	1	0	5.3	5.3	0	-0.91	-0.99	0	0	0	0	0	0
1/26/2025 10:53	53901	HALI_T2	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
1/26/2025 10:54	44201	POIN_T1	0	21	21	0	0.11	0.11	-11.79	-11.92	6	6	0	7200	7200	0
1/26/2025 10:55	59102	WALK_T2	38	45	7	0.31	0.31	0	0	0	0	0	0	0	0	0
1/26/2025 10:55	59101	WALK_T2	2	2	0	1.85	0.65	-1.2	0	0	0	0	0	0	0	0
1/26/2025 10:57	46206	DANV_T2	1	3	2	0.2	0	-0.2	2.54	1.48	1	2	1	1200	2100	900
1/26/2025 10:57	46204	DANV_T2	2	4	2	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/26/2025 10:58	44801	EDAN_T2	2	1	-1	0.8	0	-0.8	-0.46	-0.45	0	0	0	0	0	0
1/26/2025 10:58	46204	DANV_T2	2	4	2	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/26/2025 10:58	46206	DANV_T2	1	3	2	0.2	0	-0.2	2.54	1.48	1	2	1	1200	2100	900
1/26/2025 10:58	52402	GRPA_T2	6	19	13	0.22	0.23	0.01	0	0	0	0	0	0	0	0
1/26/2025 10:58	52403	GRPA_T2	19	20	1	0.51	0.75	0.24	-0.75	-0.77	0	0	0	0	0	0
1/26/2025 10:58	61304	EARL_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
1/26/2025 11:00	52402	GRPA_T2	15	16	1	0.35	0.22	-0.13	0	0	0	0	0	0	0	0
1/26/2025 11:00	52403	GRPA_T2	18	21	3	0.63	0.78	0.15	-0.75	-0.77	0	0	0	0	0	0
1/26/2025 11:00	44801	EDAN_T2	1	0	-1	0.2	0	-0.2	-0.46	-0.45	0	0	0	0	0	0
1/26/2025 11:03	57501	LAWN_T3	0	0	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
1/26/2025 11:03	55002	NEWP_T1	5	5	0	1.08	1.08	0	0	0	0	0	0	0	0	0
1/26/2025 11:13	44901	SCOT_T2	146	243	97	0.52	0.65	0.13	0	0	0	0	0	0	0	0
1/26/2025 11:13	44902	SCOT_T2	106	112	6	0.13	0.16	0.03	-0.92	-0.91	0	0	0	0	0	0
1/26/2025 11:13	64101	REFR_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
1/26/2025 11:14	64101	REFR_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
1/26/2025 11:14	59202	THOM_T1	417	466	49	0.52	0.59	0.07	0	0	0	0	0	0	0	0
1/26/2025 11:14	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 11:14	59201	THOM_T1	45	54	9	0.62	0.62	0	0	0	0	0	0	0	0	0
1/26/2025 11:14	59101	WALK_T2	1	3	2	2.4	0.27	-2.13	0	0	0	0	0	0	0	0
1/26/2025 11:14	59102	WALK_T2	34	42	8	0.23	0.33	0.1	0.25	0.26	0	0	0	0	0	0
1/26/2025 11:15	59201	THOM_T1	54	64	10	0.61	0.57	-0.04	0	0	0	0	0	0	0	0
1/26/2025 11:15	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 11:15	59202	THOM_T1	455	488	33	0.59	0.55	-0.04	0	0	0	0	0	0	0	0
1/26/2025 11:18	59202	THOM_T1	455	488	33	0.59	0.55	-0.04	0	0	0	0	0	0	0	0
1/26/2025 11:18	59201	THOM_T1	54	64	10	0.61	0.57	-0.04	0	0	0	0	0	0	0	0
1/26/2025 11:19	52401	GRPA_T2	0	2	2	0	0.2	0.2	-0.61	-0.66	0	0	0	0	0	0
1/26/2025 11:19	59201	THOM_T1	54	64	10	0.61	0.57	-0.04	0	0	0	0	0	0	0	0
1/26/2025 11:19	64101	REFR_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
1/26/2025 11:19	59202	THOM_T1	455	488	33	0.59	0.55	-0.04	0	0	0	0	0	0	0	0
1/26/2025 11:19	52402	GRPA_T2	13	14	1	0.24	0.1	-0.14	0	0	0	0	0	0	0	0
1/26/2025 11:19	52403	GRPA_T2	19	21	2	0.74	0.77	0.03	0	0	0	0	0	0	0	0
1/26/2025 11:20	64305	LINC_T1	1	1	0	0.5	1	0.5	-0.72	-0.77	0	0	0	0	0	0
1/26/2025 11:20	65205	PRIN_T1	2	2	0	3.75	1.7	-2.05	0	0	0	0	0	0	0	0
1/26/2025 11:20	65202	PRIN_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/26/2025 11:21	44601	SALE_T2	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
1/26/2025 11:21	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 11:22	66903	SHIL_T2	0	0	0	0	0	0	-1.77	-1.77	0	0	0	0	0	0
1/26/2025 11:23	40602	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/26/2025 11:23	64101	REFR_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
1/26/2025 11:23	40601	PIGR_T1	0	1	1	0	0.3	0.3	-0.12	0	0	0	0	0	0	0
1/26/2025 11:24	44601	SALE_T2	0	0	0	0	0	0	-0.12	-0.16	0	0	0	0	0	0
1/26/2025 11:24	64101	REFR_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
1/26/2025 11:26	11101	EGYP_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/26/2025 11:26	11104	EGYP_T1	2	2	0	0.6	0.5	-0.1	0.32	0.31	0	0	0	0	0	0
1/26/2025 11:26	64101	REFR_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
1/26/2025 11:29	20601	GRWO_T2	0	3	3	0	0.17	0.17	-0.21	-0.22	0	0	0	0	0	0
1/26/2025 11:29	40101	HUNT_T2	120	129	9	1.03	1.03	0	-0.69	-0.67	0	0	0	0	0	0
1/26/2025 11:29	20603	GRWO_T2	11	49	38	0.29	0.33	0.04	0	0	0	0	0	0	0	0
1/26/2025 11:29	41301	FISH_T1	1	3	2	1.8	1.17	-0.63	0	0	0	0	0	0	0	0
1/26/2025 11:30	61801	EELI_T2	5	1	-4	0.38	0.5	0.12	0	0	0	0	0	0	0	0
1/26/2025 11:30	61802	EELI_T2	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
1/26/2025 11:32	64305	LINC_T1	1	1	0	0.9	1	0.1	-0.77	-0.73	0	0	0	0	0	0
1/26/2025 11:33	52004	LING_T2	2	2	0	4.7	4.85	0.15	0	0	0	0	0	0	0	0
1/26/2025 11:33	52006	LING_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 11:33	63602	LETO_T1	0	0	0	0	0	0	-0.43	-0.36	0	0	0	0	0	0
1/26/2025 11:33	63601	LETO_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/26/2025 11:39	40201	BEGA_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/26/2025 11:41	40201	BEGA_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/26/2025 11:42	44801	EDAN_T2	0	3	3	0	0	0	-0.45	-0.46	0	0	0	0	0	0
1/26/2025 11:44	45301	WBER_T2	0	0	0	0	0	0	-2.1	-2.09	2	2	0	2400	2400	0
1/26/2025 11:44	13904	SEID_T1	51	46	-5	0.92	0.97	0.05	0.4	0.4	0	0	0	0	0	0
1/26/2025 11:44	13903	SEID_T1	2	4	2	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/26/2025 11:44	45303	WBER_T2	1	1	0	8.9	9	0.1	0	0	0	0	0	0	0	0
1/26/2025 11:46	41903	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 11:46	41902	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/26/2025 11:48	60504	NMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/26/2025 11:48	57704	PAXT_T2	0	0	0	0	0	0	-0.43	-0.38	1	1	0	900	900	0
1/26/2025 11:48	60501	NMAN_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/26/2025 11:48	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 11:49	57704	PAXT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 11:50	57704	PAXT_T2	0	0	0	0	0	0	-0.43	-0.38	1	1	0	900	900	0
1/26/2025 11:52	57704	PAXT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 11:52	44202	POIN_T2	0	0	0	0	0	0	-0.95	-0.92	1	1	0	1200	1200	0
1/26/2025 11:54	65205	PRIN_T1	2	1	-1	3.95	1.5	-2.45	0	0	0	0	0	0	0	0
1/26/2025 11:54	65202	PRIN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/26/2025 11:55	46002	BERW_T2	0	0	0	0	0	0	-1.37	-1.4	1	1	0	900	900	0
1/26/2025 11:55	65702	RVIL_T2	0	0	0	0	0	0	-1.42	-1.42	0	0	0	0	0	0
1/26/2025 11:55	46004	BERW_T2	0	4	4	0	0.37	0.37	0	0	0	0	0	0	0	0
1/26/2025 11:56	59102	WALK_T2	50	65	15	0.32	0.34	0.02	0.27	0.27	0	0	0	0	0	0
1/26/2025 11:56	59101	WALK_T2	2	3	1	0.15	0.35	0.2	0	0	0	0	0	0	0	0
1/26/2025 11:57	44801	EDAN_T2	0	3	3	0	5.3	5.3	-0.46	-0.46	0	0	0	0	0	0
1/26/2025 11:58	60201	ATGL_T2	63	74	11	0.33	0.38	0.05	0.63	0.62	0	0	0	0	0	0
1/26/2025 12:00	63501	HEID_TBK1-2	44	6	-38	0.27	0.17	-0.1	-0.48	-0.48	1	1	0	900	900	0
1/26/2025 12:01	63501	HEID_TBK1-2	44	6	-38	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
1/26/2025 12:02	54506	ENOL_T2	0	0	0	0	0	0	0.23	0.31	1	1	0	600	600	0
1/26/2025 12:02	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/26/2025 12:03	63501	HEID_TBK1-2	44	6	-38	0.27	0.17	-0.1	-0.48	-0.48	1	1	0	900	900	0
1/26/2025 12:04	63501	HEID_TBK1-2	44	6	-38	0.27	0.17	-0.1	-0.96	-0.96	2	2	0	1800	1800	0
1/26/2025 12:05	44202	POIN_T2	0	1	1	0	0.2	0.2	-0.95	-0.92	1	1	0	1200	1200	0
1/26/2025 12:20	66901	SHIL_T2	0	0	0	0	0	0	-1.78	-1.81	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/26/2025 12:22	54505	ENOL_T2	0	1	1	0	0.1	0.1	-1.25	-1.25	1	1	0	600	600	0
1/26/2025 12:23	65702	RVIL_T2	0	0	0	0	0	0	-1.4	-1.32	0	0	0	0	0	0
1/26/2025 12:24	13901	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/26/2025 12:24	13904	SEID_T1	67	54	-13	0.88	0.83	-0.05	0	0	0	0	0	0	0	0
1/26/2025 12:24	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 12:26	11104	EGYP_T1	1	2	1	0.4	0.1	-0.3	0.31	0.28	0	0	0	0	0	0
1/26/2025 12:26	11102	EGYP_T1	6	0	-6	0.18	0	-0.18	0	0	0	0	0	0	0	0
1/26/2025 12:26	11903	ETEX_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/26/2025 12:26	11103	EGYP_T1	5	5	0	2.94	2.42	-0.52	0	0	0	0	0	0	0	0
1/26/2025 12:28	44302	BEAV_T2	5	6	1	0.66	0.47	-0.19	0	0	0	0	0	0	0	0
1/26/2025 12:28	44301	BEAV_T2	1	9	8	1.2	0.25	-0.95	-1.47	-1.47	1	1	0	600	600	0
1/26/2025 12:30	40902	JESH_T1	0	0	0	0	0	0	-1.39	-1.4	1	1	0	600	600	0
1/26/2025 12:30	40901	JESH_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
1/26/2025 12:31	61701	ELIZ_T1	2	6	4	3.55	1.32	-2.23	-0.44	-0.42	0	0	0	0	0	0
1/26/2025 12:31	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/26/2025 12:31	52004	LING_T2	2	3	1	5.1	3.67	-1.43	0	0	0	0	0	0	0	0
1/26/2025 12:31	61703	ELIZ_T1	4	9	5	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
1/26/2025 12:31	61301	EARL_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
1/26/2025 12:32	11104	EGYP_T1	1	2	1	0.1	0.1	0	0.31	0.28	0	0	0	0	0	0
1/26/2025 12:32	11103	EGYP_T1	5	5	0	3.08	2.42	-0.66	0	0	0	0	0	0	0	0
1/26/2025 12:32	52004	LING_T2	2	3	1	5.1	3.67	-1.43	0.04	0.04	0	0	0	0	0	0
1/26/2025 12:33	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/26/2025 12:33	40902	JESH_T1	0	0	0	0	0	0	-2.78	-2.8	2	2	0	1200	1200	0
1/26/2025 12:33	40901	JESH_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
1/26/2025 12:33	55002	NEWP_T1	9	9	0	0.86	1.03	0.17	-0.18	-0.18	0	0	0	0	0	0
1/26/2025 12:33	57704	PAXT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 12:35	52502	PROG_T2	0	0	0	0	0	0	-0.57	-0.58	1	1	0	900	900	0
1/26/2025 12:35	57704	PAXT_T2	0	0	0	0	0	0	-0.42	-0.48	1	1	0	900	900	0
1/26/2025 12:35	52503	PROG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/26/2025 12:35	65401	MARI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/26/2025 12:36	52503	PROG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/26/2025 12:36	52502	PROG_T2	0	0	0	0	0	0	-0.58	-0.54	1	1	0	900	900	0
1/26/2025 12:36	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/26/2025 12:36	55002	NEWP_T1	9	9	0	0.86	1.03	0.17	-0.36	-0.34	0	0	0	0	0	0
1/26/2025 12:37	57704	PAXT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 12:38	15104	UPHA_T2	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
1/26/2025 12:38	44905	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 12:38	15103	UPHA_T2	3	8	5	0.67	0.41	-0.26	-0.87	-0.87	0	0	0	0	0	0
1/26/2025 12:40	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 12:42	16101	BING_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/26/2025 12:42	16102	BING_T2	0	1	1	0	0.3	0.3	0.01	0	0	0	0	0	0	0
1/26/2025 12:42	27902	BCRK_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 12:42	27901	BCRK_T1	6	3	-3	1.68	3.6	1.92	0	0	0	0	0	0	0	0
1/26/2025 12:43	41801	GOCI_T2	4	12	8	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
1/26/2025 12:44	12005	HATF_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
1/26/2025 12:44	12006	HATF_T1	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
1/26/2025 12:44	45501	DERR_T2	0	1	1	0	0.3	0.3	-0.47	-0.52	2	2	0	1800	1800	0
1/26/2025 12:44	12003	HATF_T1	0	0	0	0	0	0	0.93	0.9	0	0	0	0	0	0
1/26/2025 12:46	41801	GOCI_T2	2	13	11	0.1	0.28	0.18	0	0	0	0	0	0	0	0
1/26/2025 12:47	46802	HEPB_T1	1	1	0	0.7	0.8	0.1	-1.37	-1.38	0	0	0	0	0	0
1/26/2025 12:47	52004	LING_T2	2	3	1	4.95	3.67	-1.28	0.04	0.04	0	0	0	0	0	0
1/26/2025 12:47	41502	FAIR_T2	0	0	0	0	0	0	-1.58	-1.58	1	1	0	900	900	0
1/26/2025 12:48	12005	HATF_T1	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/26/2025 12:48	12007	HATF_T1	0	0	0	0	0	0	0.13	0.08	2	2	0	2400	2400	0
1/26/2025 12:48	12006	HATF_T1	2	2	0	0.85	0.2	-0.65	0	0	0	0	0	0	0	0
1/26/2025 12:50	52503	PROG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/26/2025 12:50	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 12:51	52502	PROG_T2	0	0	0	0	0	0	-0.54	-0.6	1	1	0	900	900	0
1/26/2025 12:51	52503	PROG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/26/2025 12:54	52503	PROG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/26/2025 12:54	52502	PROG_T2	0	0	0	0	0	0	-0.54	-0.6	1	1	0	900	900	0
1/26/2025 12:55	66203	SISP_T2	1	1	0	2	0	-2	0	0	0	0	0	0	0	0
1/26/2025 12:55	66201	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 12:55	66902	SHIL_T2	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
1/26/2025 12:55	59101	WALK_T2	3	9	6	1.07	0.42	-0.65	-0.48	-0.46	0	0	0	0	0	0
1/26/2025 12:55	59102	WALK_T2	74	91	17	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
1/26/2025 13:01	61801	EELI_T2	6	6	0	0.43	0.43	0	0	0	0	0	0	0	0	0
1/26/2025 13:01	61802	EELI_T2	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
1/26/2025 13:03	64204	KINZ_T1	3	3	0	0.47	0.5	0.03	0	0	0	0	0	0	0	0
1/26/2025 13:03	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/26/2025 13:03	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 13:03	64201	KINZ_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
1/26/2025 13:06	13302	ORVI_T2	76	57	-19	0.26	0.23	-0.03	0.16	0.15	0	0	0	0	0	0
1/26/2025 13:06	66203	SISP_T2	1	1	0	2.1	0	-2.1	-0.82	-0.76	1	1	0	1200	1200	0
1/26/2025 13:07	57704	PAXT_T2	0	0	0	0	0	0	-0.48	-0.43	1	1	0	900	900	0
1/26/2025 13:08	66203	SISP_T2	1	1	0	2.1	0	-2.1	0	0	0	0	0	0	0	0
1/26/2025 13:08	65901	SAKR_T2	1	2	1	9.7	4.9	-4.8	-1.73	-1.76	2	2	0	1500	1500	0
1/26/2025 13:08	40201	BEGA_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
1/26/2025 13:10	44901	SCOT_T2	189	177	-12	0.73	0.58	-0.15	-0.15	-0.28	0	0	0	0	0	0
1/26/2025 13:10	22003	BOHE_T1	6	9	3	0.23	0.3	0.07	0	0	0	0	0	0	0	0
1/26/2025 13:10	44902	SCOT_T2	8	20	12	0.34	0.27	-0.07	0	0	0	0	0	0	0	0
1/26/2025 13:10	22002	BOHE_T1	0	1	1	0	0.2	0.2	0.36	0.38	0	0	0	0	0	0
1/26/2025 13:12	45501	DERR_T2	0	1	1	0	0.3	0.3	-0.96	-1.08	4	4	0	3600	3600	0
1/26/2025 13:13	65901	SAKR_T2	1	2	1	9.7	4.9	-4.8	-1.73	-1.76	2	2	0	1500	1500	0
1/26/2025 13:14	54505	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/26/2025 13:14	61302	EARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/26/2025 13:14	54504	ENOL_T2	0	0	0	0	0	0	-1.03	-1.03	1	1	0	600	600	0
1/26/2025 13:14	61305	EARL_T1	0	0	0	0	0	0	0.67	0.73	0	0	0	0	0	0
1/26/2025 13:16	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/26/2025 13:16	64204	KINZ_T1	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
1/26/2025 13:16	64201	KINZ_T1	0	4	4	0	0.1	0.1	0.32	0.26	2	2	0	600	600	0
1/26/2025 13:19	64904	MILL_T1	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
1/26/2025 13:19	64202	KINZ_T1	0	2	2	0	0.15	0.15	0.69	0.72	0	0	0	0	0	0
1/26/2025 13:19	64201	KINZ_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
1/26/2025 13:19	64204	KINZ_T1	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
1/26/2025 13:19	64901	MILL_T1	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
1/26/2025 13:24	14403	SSLA_T1	8	5	-3	0.93	0.1	-0.83	0.05	0.06	1	1	0	600	600	0
1/26/2025 13:24	14402	SSLA_T1	12	10	-2	0.74	0.5	-0.24	0	0	0	0	0	0	0	0
1/26/2025 13:24	14401	SSLA_T1	6	3	-3	0.22	0	-0.22	0	0	0	0	0	0	0	0
1/26/2025 13:24	66203	SISP_T2	0	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0
1/26/2025 13:25	46004	BERW_T2	5	4	-1	0.62	0	-0.62	-0.75	-0.74	0	0	0	0	0	0
1/26/2025 13:26	45501	DERR_T2	0	1	1	0	0.3	0.3	-0.54	-0.62	2	2	0	1800	1800	0
1/26/2025 13:28	11901	ETEX_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
1/26/2025 13:30	10801	CHHI_T1	2	4	2	0.15	0.48	0.33	-1.52	-1.52	2	2	0	1500	1500	0
1/26/2025 13:31	63601	LETO_T1	3	5	2	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
1/26/2025 13:31	46506	LOHA_T1	4	4	0	2.58	3.05	0.47	0	0	0	0	0	0	0	0
1/26/2025 13:31	63602	LETO_T1	0	0	0	0	0	0	-0.48	-0.54	0	0	0	0	0	0
1/26/2025 13:31	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 13:31	46504	LOHA_T1	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/26/2025 13:31	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
1/26/2025 13:33	63602	LETO_T1	0	0	0	0	0	0	-0.48	-0.54	0	0	0	0	0	0
1/26/2025 13:33	63601	LETO_T1	3	5	2	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
1/26/2025 13:35	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 13:35	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
1/26/2025 13:35	44203	POIN_T2	0	0	0	0	0	0	-0.18	-0.12	1	1	0	900	900	0
1/26/2025 13:35	46506	LOHA_T1	4	4	0	2.58	3.05	0.47	0	0	0	0	0	0	0	0
1/26/2025 13:35	46504	LOHA_T1	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/26/2025 13:42	42701	AUGU_T1	1	0	-1	0.4	0	-0.4	0	0	2	2	0	1800	1800	0
1/26/2025 13:42	16103	BING_T2	0	0	0	0	0	0	-1.61	-1.58	1	1	0	900	900	0
1/26/2025 13:46	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/26/2025 13:46	54504	ENOL_T2	0	0	0	0	0	0	-1.04	-1.05	1	1	0	600	600	0
1/26/2025 13:47	22601	KIMB_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/26/2025 13:47	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.25	0	0	0	0	0	0
1/26/2025 13:50	66504	SMAN_T2	0	0	0	0	0	0	-1.47	-1.58	0	0	0	0	0	0
1/26/2025 13:50	13302	ORVI_T2	95	108	13	0.25	0.26	0.01	0.23	0.15	0	0	0	0	0	0
1/26/2025 13:52	13302	ORVI_T2	95	108	13	0.25	0.26	0.01	0.15	0.12	0	0	0	0	0	0
1/26/2025 14:01	46602	LACR_T1	5	15	10	0.45	0.25	-0.2	-0.7	-0.69	0	0	0	0	0	0
1/26/2025 14:05	57702	PAXT_T1	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
1/26/2025 14:08	42504	ALTA_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
1/26/2025 14:08	42501	ALTA_T2	1	1	0	0	0	0	-3.72	-3.81	3	3	0	1800	1800	0
1/26/2025 14:09	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
1/26/2025 14:14	44904	SCOT_T1	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
1/26/2025 14:15	61704	ELIZ_T2	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
1/26/2025 14:15	61702	ELIZ_T2	3	3	0	0.57	0.6	0.03	-0.68	-0.72	1	1	0	300	300	0
1/26/2025 14:16	41801	GOCI_T2	8	1	-7	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
1/26/2025 14:17	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
1/26/2025 14:17	65503	MOJO_T2	10	12	2	0.21	0.28	0.07	-1.56	-1.55	1	1	0	900	900	0
1/26/2025 14:17	22601	KIMB_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/26/2025 14:17	63601	LETO_T1	2	1	-1	0.15	0.1	-0.05	1.36	1.36	2	2	0	1800	1800	0
1/26/2025 14:17	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 14:17	41801	GOCI_T2	8	1	-7	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
1/26/2025 14:18	13501	MCMI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 14:18	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 14:19	65503	MOJO_T2	10	12	2	0.21	0.28	0.07	0	0	0	0	0	0	0	0
1/26/2025 14:19	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 14:22	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 14:22	65502	MOJO_T2	0	0	0	0	0	0	-0.94	-1	0	0	0	0	0	0
1/26/2025 14:22	65503	MOJO_T2	10	12	2	0.21	0.28	0.07	-1.55	-1.55	1	1	0	900	900	0
1/26/2025 14:22	66903	SHIL_T2	0	0	0	0	0	0	-1.81	-1.82	0	0	0	0	0	0
1/26/2025 14:22	44202	POIN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/26/2025 14:23	66903	SHIL_T2	0	0	0	0	0	0	-1.81	-1.82	0	0	0	0	0	0
1/26/2025 14:23	44202	POIN_T2	0	1	1	0	0.1	0.1	-0.97	-0.96	1	1	0	1200	1200	0
1/26/2025 14:24	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 14:26	15601	NSTR_T2	8	9	1	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
1/26/2025 14:26	15602	NSTR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 14:26	44302	BEAV_T2	1	4	3	0.6	0.23	-0.37	0	0	0	0	0	0	0	0
1/26/2025 14:26	44301	BEAV_T2	15	10	-5	0.2	0.21	0.01	-1.48	-1.49	1	1	0	600	600	0
1/26/2025 14:26	66903	SHIL_T2	0	0	0	0	0	0	-1.81	-1.82	0	0	0	0	0	0
1/26/2025 14:27	44301	BEAV_T2	15	10	-5	0.2	0.21	0.01	-1.48	-1.49	1	1	0	600	600	0
1/26/2025 14:27	44302	BEAV_T2	1	4	3	0.6	0.23	-0.37	0	0	0	0	0	0	0	0
1/26/2025 14:28	44302	BEAV_T2	1	4	3	0.6	0.23	-0.37	0.3	0.28	0	0	0	0	0	0
1/26/2025 14:28	44301	BEAV_T2	15	10	-5	0.2	0.21	0.01	0	0	0	0	0	0	0	0
1/26/2025 14:28	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/26/2025 14:28	61304	EARL_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
1/26/2025 14:30	61703	ELIZ_T1	1	1	0	0.2	0.2	0	-0.82	-0.85	1	1	0	900	900	0
1/26/2025 14:30	61701	ELIZ_T1	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
1/26/2025 14:30	12006	HATF_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 14:30	12002	HATF_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
1/26/2025 14:30	12004	HATF_T1	9	28	19	0.17	0.21	0.04	0	0	0	0	0	0	0	0
1/26/2025 14:30	12005	HATF_T1	5	5	0	0.56	0.68	0.12	0	0	0	0	0	0	0	0
1/26/2025 14:31	64403	LAND_T1	0	1	1	0	0.1	0.1	-2.01	-1.99	1	1	0	900	900	0
1/26/2025 14:32	52001	LING_T1	0	0	0	0	0	0	-1.05	-1.02	0	0	0	0	0	0
1/26/2025 14:33	64403	LAND_T1	0	1	1	0	0.1	0.1	-2.01	-1.99	1	1	0	900	900	0
1/26/2025 14:38	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 14:44	46004	BERW_T2	3	2	-1	0.37	0	-0.37	-0.76	-0.78	0	0	0	0	0	0
1/26/2025 14:48	46501	LOHA_T1	0	0	0	0	0	0	-0.09	-0.07	1	1	0	1200	1200	0
1/26/2025 14:48	46506	LOHA_T1	3	3	0	4.1	3.77	-0.33	0	0	0	0	0	0	0	0
1/26/2025 14:48	46504	LOHA_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
1/26/2025 14:52	24202	PROV_T4	0	0	0	0	0	0	-0.78	-0.82	1	1	0	1200	1200	0
1/26/2025 14:52	24206	PROV_T4	1	1	0	4.7	0	-4.7	0	0	0	0	0	0	0	0
1/26/2025 14:56	65503	MOJO_T2	10	8	-2	0.23	0.16	-0.07	-1.55	-1.53	1	1	0	900	900	0
1/26/2025 15:08	44201	POIN_T1	81	82	1	0.21	0.23	0.02	-1.97	-2	1	1	0	1200	1200	0
1/26/2025 15:08	13704	SCHN_T2	0	0	0	0	0	0	-0.88	-0.91	0	0	0	0	0	0
1/26/2025 15:09	67401	WAKE_T2	63	83	20	0.25	0.25	0	-1.74	-1.7	0	0	0	0	0	0
1/26/2025 15:15	54501	ENOL_T2	0	0	0	0	0	0	-0.54	-0.54	1	1	0	600	600	0
1/26/2025 15:15	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/26/2025 15:20	64802	MONE_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
1/26/2025 15:20	64801	MONE_T2	2	7	5	0.1	0.17	0.07	-0.01	0.04	0	0	0	0	0	0
1/26/2025 15:22	65503	MOJO_T2	8	13	5	0.15	0.36	0.21	-1.55	-0.59	1	0	-1	900	0	-900
1/26/2025 15:35	64801	MONE_T2	4	7	3	0.2	0.14	-0.06	0.04	0.01	0	0	0	0	0	0
1/26/2025 15:35	64802	MONE_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
1/26/2025 15:37	67401	WAKE_T2	82	111	29	0.25	0.25	0	-0.85	-0.86	0	0	0	0	0	0
1/26/2025 15:37	64801	MONE_T2	4	7	3	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
1/26/2025 15:37	64802	MONE_T2	0	6	6	0	0.1	0.1	0.3	0.28	0	0	0	0	0	0
1/26/2025 15:40	67401	WAKE_T2	82	111	29	0.25	0.25	0	0	0	0	0	0	0	0	0
1/26/2025 15:40	67402	WAKE_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
1/26/2025 15:41	67401	WAKE_T2	82	111	29	0.25	0.25	0	0	0	0	0	0	0	0	0
1/26/2025 15:48	52403	GRPA_T2	2	1	-1	1.05	1.9	0.85	0	0	0	0	0	0	0	0
1/26/2025 15:48	55002	NEWP_T1	4	5	1	0.88	0.56	-0.32	-0.21	-0.21	0	0	0	0	0	0
1/26/2025 15:48	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 15:48	52402	GRPA_T2	4	6	2	0.2	0.8	0.6	0	0	0	0	0	0	0	0
1/26/2025 16:02	24102	EHAZ_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
1/26/2025 16:02	24104	EHAZ_T1	8	5	-3	0.14	0.12	-0.02	-2.2	-2.21	1	1	0	1200	1200	0
1/26/2025 16:02	13904	SEID_T1	53	52	-1	0.94	0.81	-0.13	0	0	0	0	0	0	0	0
1/26/2025 16:02	24101	EHAZ_T1	29	32	3	1.98	1.28	-0.7	0	0	0	0	0	0	0	0
1/26/2025 16:02	24105	EHAZ_T1	4	4	0	6.38	6.35	-0.03	0	0	0	0	0	0	0	0
1/26/2025 16:02	13905	SEID_T1	0	0	0	0	0	0	-0.99	-0.98	1	1	0	1200	1200	0
1/26/2025 16:14	22003	BOHE_T1	110	67	-43	0.42	0.45	0.03	0	0	0	0	0	0	0	0
1/26/2025 16:14	22001	BOHE_T1	119	110	-9	0.35	0.3	-0.05	0.37	0.34	0	0	0	0	0	0
1/26/2025 16:14	22002	BOHE_T1	7	4	-3	0.4	0.45	0.05	0	0	0	0	0	0	0	0
1/26/2025 16:25	46002	BERW_T2	0	0	0	0	0	0	-1.49	-1.45	1	1	0	900	900	0
1/26/2025 16:25	46004	BERW_T2	1	3	2	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/26/2025 16:26	46002	BERW_T2	0	0	0	0	0	0	-2.98	-2.9	2	2	0	1800	1800	0
1/26/2025 16:26	46004	BERW_T2	1	3	2	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/26/2025 16:30	11904	ETEX_T2	0	0	0	0	0	0	-1.57	-1.55	0	0	0	0	0	0
1/26/2025 16:34	64305	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 16:39	46002	BERW_T2	0	0	0	0	0	0	-1.45	-1.44	1	1	0	900	900	0
1/26/2025 16:39	46004	BERW_T2	3	11	8	0.13	0	-0.13	0	0	0	0	0	0	0	0
1/26/2025 16:46	11102	EGYP_T1	8	0	-8	0.39	0	-0.39	0	0	0	0	0	0	0	0
1/26/2025 16:46	11104	EGYP_T1	1	11	10	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
1/26/2025 17:07	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 17:07	41902	REED_T1	20	23	3	0.54	0.22	-0.32	0	0	0	0	0	0	0	0
1/26/2025 17:09	41902	REED_T1	20	23	3	0.54	0.22	-0.32	0	0	0	0	0	0	0	0
1/26/2025 17:09	41901	REED_T1	0	0	0	0	0	0	-1.05	-1.06	0	0	0	0	0	0
1/26/2025 17:26	63501	HEID_TBK1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 17:40	64101	REFR_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
1/26/2025 17:53	44202	POIN_T2	0	0	0	0	0	0	-0.92	-0.93	1	1	0	1200	1200	0
1/26/2025 17:53	44203	POIN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:10	26704	HEML_T2	0	0	0	0	0	0	-0.37	-0.36	0	0	0	0	0	0
1/26/2025 19:12	22002	BOHE_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
1/26/2025 19:12	12005	HATF_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/26/2025 19:12	12006	HATF_T1	2	2	0	1.55	1.25	-0.3	0	0	0	0	0	0	0	0
1/26/2025 19:12	12003	HATF_T1	0	0	0	0	0	0	0.89	0.8	0	0	0	0	0	0
1/26/2025 19:12	61701	ELIZ_T1	1	1	0	5.2	5.3	0.1	0.12	-0.02	0	0	0	0	0	0
1/26/2025 19:12	22003	BOHE_T1	2	1	-1	0.35	0.5	0.15	0	0	0	0	0	0	0	0
1/26/2025 19:14	13302	ORVI_T2	3	6	3	0.13	0.1	-0.03	0.15	0.09	0	0	0	0	0	0
1/26/2025 19:15	44201	POIN_T1	0	0	0	0	0	0	-1.99	-1.95	1	1	0	1200	1200	0
1/26/2025 19:16	13103	NHAM_T2	0	0	0	0	0	0	-1.55	-1.58	1	1	0	600	600	0
1/26/2025 19:16	13105	NHAM_T2	18	26	8	1.96	1.74	-0.22	0	0	0	0	0	0	0	0
1/26/2025 19:16	27901	BCRK_T1	3	8	5	2.6	2.43	-0.17	0	0	0	0	0	0	0	0
1/26/2025 19:16	24105	EHAZ_T1	11	10	-1	2.75	6.83	4.08	0	0	0	0	0	0	0	0
1/26/2025 19:16	29402	BELT_T1	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
1/26/2025 19:16	24101	EHAZ_T1	43	67	24	3.11	4.04	0.93	0	0	0	0	0	0	0	0
1/26/2025 19:16	24102	EHAZ_T1	6	8	2	1.03	1.11	0.08	0	0	0	0	0	0	0	0
1/26/2025 19:16	24104	EHAZ_T1	0	0	0	0	0	0	-2.18	-2.17	1	1	0	1200	1200	0
1/26/2025 19:16	46002	BERW_T2	0	0	0	0	0	0	-1.45	-1.42	1	1	0	900	900	0
1/26/2025 19:16	46203	DANV_T2	9	8	-1	0.62	0.7	0.08	0	0	0	0	0	0	0	0
1/26/2025 19:16	24103	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:16	46204	DANV_T2	20	59	39	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
1/26/2025 19:16	46206	DANV_T2	4	10	6	0.45	0.23	-0.22	1.36	1.38	2	2	0	2100	2100	0
1/26/2025 19:16	46004	BERW_T2	6	17	11	0.68	0.38	-0.3	0	0	0	0	0	0	0	0
1/26/2025 19:17	13503	MCMI_T2	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
1/26/2025 19:17	40201	BEGA_T2	11	5	-6	0.45	0.9	0.45	0	0	0	0	0	0	0	0
1/26/2025 19:17	61304	EARL_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
1/26/2025 19:17	22001	BOHE_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
1/26/2025 19:17	44901	SCOT_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
1/26/2025 19:17	22003	BOHE_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/26/2025 19:17	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
1/26/2025 19:17	66903	SHIL_T2	0	0	0	0	0	0	-1.89	-1.88	0	0	0	0	0	0
1/26/2025 19:18	61801	EELI_T2	1	0	-1	4.1	0	-4.1	0	0	0	0	0	0	0	0
1/26/2025 19:18	42501	ALTA_T2	0	0	0	0	0	0	-2.52	-2.56	2	2	0	1200	1200	0
1/26/2025 19:18	13904	SEID_T1	62	84	22	1.9	1.79	-0.11	0	0	0	0	0	0	0	0
1/26/2025 19:18	63501	HEID_TBK1-2	1	27	26	0.1	0.15	0.05	-0.47	-0.52	1	1	0	900	900	0
1/26/2025 19:18	13905	SEID_T1	0	0	0	0	0	0	-0.91	-0.84	1	1	0	1200	1200	0
1/26/2025 19:18	61802	EELI_T2	0	0	0	0	0	0	-0.21	-0.13	0	0	0	0	0	0
1/26/2025 19:18	44601	SALE_T2	0	0	0	0	0	0	-0.12	-0.08	0	0	0	0	0	0
1/26/2025 19:18	13902	SEID_T1	1	4	3	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/26/2025 19:18	42503	ALTA_T2	4	4	0	0.93	0.23	-0.7	0	0	0	0	0	0	0	0
1/26/2025 19:19	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:19	44902	SCOT_T2	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
1/26/2025 19:19	46004	BERW_T2	6	17	11	0.68	0.38	-0.3	0	0	0	0	0	0	0	0
1/26/2025 19:19	46002	BERW_T2	0	0	0	0	0	0	-2.9	-2.84	2	2	0	1800	1800	0
1/26/2025 19:20	11102	EGYP_T1	6	8	2	0.3	0.38	0.08	0	0	0	0	0	0	0	0
1/26/2025 19:20	40901	JESH_T1	1	1	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
1/26/2025 19:20	24202	PROV_T4	0	0	0	0	0	0	-0.79	-0.77	1	1	0	1200	1200	0
1/26/2025 19:20	11103	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:20	10801	CHHI_T1	1	1	0	0.5	0	-0.5	-1.36	-1.36	2	2	0	1500	1500	0
1/26/2025 19:20	11901	ETEX_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
1/26/2025 19:20	24206	PROV_T4	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
1/26/2025 19:20	44201	POIN_T1	0	0	0	0	0	0	-1.99	-1.95	1	1	0	1200	1200	0
1/26/2025 19:20	40902	JESH_T1	0	0	0	0	0	0	-1.29	-1.28	1	1	0	600	600	0
1/26/2025 19:20	11104	EGYP_T1	1	6	5	0.9	0	-0.9	-0.4	-0.45	1	1	0	900	900	0
1/26/2025 19:21	44601	SALE_T2	0	0	0	0	0	0	-0.12	-0.08	0	0	0	0	0	0
1/26/2025 19:21	44201	POIN_T1	0	0	0	0	0	0	-1.99	-1.95	1	1	0	1200	1200	0
1/26/2025 19:21	64801	MONE_T2	0	1	1	0	0	0	0.13	0.12	0	0	0	0	0	0
1/26/2025 19:21	46602	LACR_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
1/26/2025 19:21	46501	LOHA_T1	3	7	4	1.23	1.43	0.2	-0.04	-0.04	1	1	0	1200	1200	0
1/26/2025 19:21	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:21	67401	WAKE_T2	0	0	0	0	0	0	-1.11	-1.11	0	0	0	0	0	0
1/26/2025 19:21	66504	SMAN_T2	0	0	0	0	0	0	-4.83	-4.83	3	3	0	3600	3600	0
1/26/2025 19:21	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:21	54504	ENOL_T2	0	0	0	0	0	0	-0.96	-0.93	1	1	0	600	600	0
1/26/2025 19:21	46802	HEPB_T1	0	1	1	0	0	0	-1.23	-1.23	0	0	0	0	0	0
1/26/2025 19:21	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
1/26/2025 19:21	46506	LOHA_T1	3	3	0	1.43	1.73	0.3	0	0	0	0	0	0	0	0
1/26/2025 19:22	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:22	63501	HEID_TBK1-2	1	27	26	0.1	0.15	0.05	-0.52	-0.52	1	1	0	900	900	0
1/26/2025 19:22	45502	DERR_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/26/2025 19:22	45501	DERR_T2	0	5	5	0	0	0	-1.38	-1.14	4	4	0	3600	3600	0
1/26/2025 19:22	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:22	13301	ORVI_T1	0	0	0	0	0	0	0.24	0.27	0	0	0	0	0	0
1/26/2025 19:22	11103	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:22	64801	MONE_T2	0	1	1	0	0	0	0.12	0.12	0	0	0	0	0	0
1/26/2025 19:22	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
1/26/2025 19:22	13501	MCMI_T1	2	3	1	0.85	0.9	0.05	0	0	0	0	0	0	0	0
1/26/2025 19:22	23401	HONE_T2	2	23	21	0.5	0.57	0.07	-0.04	-0.06	0	0	0	0	0	0
1/26/2025 19:22	15103	UPHA_T2	0	0	0	0	0	0	0.49	-0.82	0	0	0	0	0	0
1/26/2025 19:22	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
1/26/2025 19:22	44901	SCOT_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
1/26/2025 19:22	11104	EGYP_T1	1	6	5	0.9	0	-0.9	-0.45	-0.49	1	1	0	900	900	0
1/26/2025 19:22	11102	EGYP_T1	6	8	2	0.3	0.38	0.08	0	0	0	0	0	0	0	0
1/26/2025 19:22	46004	BERW_T2	6	17	11	0.68	0.38	-0.3	-0.74	-0.74	0	0	0	0	0	0
1/26/2025 19:22	54501	ENOL_T2	0	0	0	0	0	0	-0.5	-0.46	1	1	0	600	600	0
1/26/2025 19:23	44801	EDAN_T2	1	1	0	1	0.7	-0.3	-0.41	-0.4	0	0	0	0	0	0
1/26/2025 19:23	64201	KINZ_T1	0	0	0	0	0	0	-0.56	-0.66	3	3	0	1500	1500	0
1/26/2025 19:23	45502	DERR_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/26/2025 19:23	65503	MOJO_T2	0	0	0	0	0	0	-1.53	-1.56	1	1	0	900	900	0
1/26/2025 19:23	46004	BERW_T2	6	17	11	0.68	0.38	-0.3	0	0	0	0	0	0	0	0
1/26/2025 19:23	44905	SCOT_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/26/2025 19:23	46002	BERW_T2	0	0	0	0	0	0	-1.42	-1.43	1	1	0	900	900	0
1/26/2025 19:23	45501	DERR_T2	0	5	5	0	0	0	-0.69	-0.57	2	2	0	1800	1800	0
1/26/2025 19:23	64204	KINZ_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
1/26/2025 19:23	41301	FISH_T1	1	1	0	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
1/26/2025 19:23	44904	SCOT_T1	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
1/26/2025 19:23	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:24	53903	HALI_T2	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/26/2025 19:24	44301	BEAV_T2	2	2	0	1.25	0	-1.25	0	0	0	0	0	0	0	0
1/26/2025 19:24	11904	ETEX_T2	0	0	0	0	0	0	-1.49	-1.47	0	0	0	0	0	0
1/26/2025 19:24	63601	LETO_T1	0	0	0	0	0	0	0.37	0.33	1	1	0	900	900	0
1/26/2025 19:24	12002	HATF_T1	0	0	0	0	0	0	-0.12	-0.07	0	0	0	0	0	0
1/26/2025 19:24	66201	SISP_T2	4	3	-1	0.53	0	-0.53	0	0	0	0	0	0	0	0
1/26/2025 19:24	12005	HATF_T1	1	3	2	0.1	0.47	0.37	0	0	0	0	0	0	0	0
1/26/2025 19:24	53902	HALI_T2	1	1	0	4.7	5	0.3	-0.92	-0.91	0	0	0	0	0	0
1/26/2025 19:24	13503	MCMI_T2	0	0	0	0	0	0	0.44	-0.5	0	0	0	0	0	0
1/26/2025 19:24	44302	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:24	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:24	13902	SEID_T1	1	4	3	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/26/2025 19:24	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
1/26/2025 19:24	66203	SISP_T2	1	1	0	5.6	2.7	-2.9	-0.79	-0.8	1	1	0	1200	1200	0
1/26/2025 19:24	13904	SEID_T1	62	84	22	1.9	1.79	-0.11	0.45	0.47	0	0	0	0	0	0
1/26/2025 19:24	12006	HATF_T1	2	2	0	1.25	1.25	0	0	0	0	0	0	0	0	0
1/26/2025 19:25	55002	NEWP_T1	0	2	2	0	0.45	0.45	-0.18	-0.2	0	0	0	0	0	0
1/26/2025 19:25	53903	HALI_T2	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/26/2025 19:25	45501	DERR_T2	0	5	5	0	0	0	-1.38	-1.14	4	4	0	3600	3600	0
1/26/2025 19:25	64305	LINC_T1	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
1/26/2025 19:25	66903	SHIL_T2	0	0	0	0	0	0	-1.88	-1.88	0	0	0	0	0	0
1/26/2025 19:25	13503	MCMI_T2	0	0	0	0	0	0	0.44	-0.5	0	0	0	0	0	0
1/26/2025 19:25	53902	HALI_T2	1	1	0	4.7	5	0.3	-0.92	-0.91	0	0	0	0	0	0
1/26/2025 19:25	52502	PROG_T2	0	0	0	0	0	0	-0.88	-0.9	2	2	0	1800	1800	0
1/26/2025 19:25	41902	REED_T1	2	2	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/26/2025 19:25	63602	LETO_T1	0	0	0	0	0	0	-0.39	-0.46	0	0	0	0	0	0
1/26/2025 19:25	46206	DANV_T2	4	10	6	0.45	0.23	-0.22	1.38	1.39	2	2	0	2100	2100	0
1/26/2025 19:25	41901	REED_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/26/2025 19:25	46203	DANV_T2	9	8	-1	0.62	0.7	0.08	0	0	0	0	0	0	0	0
1/26/2025 19:25	55001	NEWP_T1	4	6	2	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
1/26/2025 19:25	53901	HALI_T2	0	0	0	0	0	0	-1.25	-1.27	0	0	0	0	0	0
1/26/2025 19:25	46204	DANV_T2	20	59	39	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
1/26/2025 19:25	59102	WALK_T2	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
1/26/2025 19:25	41903	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:25	59201	THOM_T1	5	1	-4	0.18	0.2	0.02	0	0	0	0	0	0	0	0
1/26/2025 19:25	59202	THOM_T1	4	1	-3	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/26/2025 19:25	59101	WALK_T2	1	1	0	1.6	3	1.4	0	0	0	0	0	0	0	0
1/26/2025 19:25	45502	DERR_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/26/2025 19:26	13302	ORVI_T2	5	25	20	0.1	0.33	0.23	0.09	0.19	0	0	0	0	0	0
1/26/2025 19:26	52002	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:26	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:26	59201	THOM_T1	5	1	-4	0.18	0.2	0.02	0	0	0	0	0	0	0	0
1/26/2025 19:26	14402	SSLA_T1	2	8	6	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
1/26/2025 19:26	11903	ETEX_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:26	10801	CHHI_T1	1	1	0	0.5	0	-0.5	-1.36	-1.38	2	2	0	1500	1500	0
1/26/2025 19:26	54502	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:26	54506	ENOL_T2	0	0	0	0	0	0	0.3	0.31	1	1	0	600	600	0
1/26/2025 19:26	67401	WAKE_T2	0	0	0	0	0	0	-1.11	-1.15	0	0	0	0	0	0
1/26/2025 19:26	52004	LING_T2	3	3	0	2.8	4	1.2	0.08	0.09	0	0	0	0	0	0
1/26/2025 19:26	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
1/26/2025 19:26	65503	MOJO_T2	0	0	0	0	0	0	-1.53	-1.56	1	1	0	900	900	0
1/26/2025 19:26	64403	LAND_T1	0	0	0	0	0	0	-1.93	-1.97	1	1	0	900	900	0
1/26/2025 19:26	59102	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:26	44201	POIN_T1	0	0	0	0	0	0	-7.79	-7.85	4	4	0	4800	4800	0
1/26/2025 19:26	63501	HEID_TBK1-2	1	27	26	0.1	0.15	0.05	-0.52	-0.52	1	1	0	900	900	0
1/26/2025 19:26	67402	WAKE_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
1/26/2025 19:26	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:26	41504	FAIR_T2	2	4	2	0.25	0.57	0.32	0	0	0	0	0	0	0	0
1/26/2025 19:26	57704	PAXT_T2	0	0	0	0	0	0	-0.37	-0.41	1	1	0	900	900	0
1/26/2025 19:26	64204	KINZ_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
1/26/2025 19:26	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:26	40101	HUNT_T2	310	403	93	0.86	0.83	-0.03	-0.69	-0.7	0	0	0	0	0	0
1/26/2025 19:26	59202	THOM_T1	4	1	-3	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/26/2025 19:26	61301	EARL_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
1/26/2025 19:26	59402	RFLD_T2	0	0	0	0	0	0	-0.86	-0.86	1	1	0	450	450	0
1/26/2025 19:26	46004	BERW_T2	6	17	11	0.68	0.38	-0.3	-0.74	-0.74	0	0	0	0	0	0
1/26/2025 19:26	44801	EDAN_T2	1	1	0	1	0.7	-0.3	-0.41	-0.4	0	0	0	0	0	0
1/26/2025 19:26	41502	FAIR_T2	0	0	0	0	0	0	-1.56	-1.57	1	1	0	900	900	0
1/26/2025 19:26	59101	WALK_T2	1	1	0	1.6	3	1.4	0	0	0	0	0	0	0	0
1/26/2025 19:26	14403	SSLA_T1	1	1	0	0.1	0	-0.1	-0.35	-0.38	2	2	0	1200	1200	0
1/26/2025 19:27	15601	NSTR_T2	10	34	24	0.34	0.37	0.03	0	0	0	0	0	0	0	0
1/26/2025 19:27	65503	MOJO_T2	0	0	0	0	0	0	-1.53	-1.56	1	1	0	900	900	0
1/26/2025 19:27	53902	HALI_T2	1	1	0	4.7	5	0.3	-0.92	-0.91	0	0	0	0	0	0
1/26/2025 19:27	52502	PROG_T2	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
1/26/2025 19:27	44301	BEAV_T2	2	2	0	1.25	0	-1.25	0	0	0	0	0	0	0	0
1/26/2025 19:27	15602	NSTR_T2	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
1/26/2025 19:27	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:27	63601	LETO_T1	0	0	0	0	0	0	0.37	0.33	1	1	0	900	900	0
1/26/2025 19:27	44902	SCOT_T2	0	0	0	0	0	0	-0.92	-0.92	0	0	0	0	0	0
1/26/2025 19:27	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
1/26/2025 19:27	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
1/26/2025 19:27	53903	HALI_T2	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/26/2025 19:27	64403	LAND_T1	0	0	0	0	0	0	-1.93	-1.97	1	1	0	900	900	0
1/26/2025 19:28	53902	HALI_T2	1	1	0	4.7	5	0.3	0	0	0	0	0	0	0	0
1/26/2025 19:28	55001	NEWP_T1	4	6	2	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
1/26/2025 19:28	15104	UPHA_T2	0	0	0	0	0	0	0.55	0.62	0	0	0	0	0	0
1/26/2025 19:28	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:28	16103	BING_T2	0	0	0	0	0	0	-1.48	-1.49	1	1	0	900	900	0
1/26/2025 19:28	65202	PRIN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/26/2025 19:28	11103	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:28	11102	EGYP_T1	6	8	2	0.3	0.38	0.08	0	0	0	0	0	0	0	0
1/26/2025 19:28	53903	HALI_T2	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/26/2025 19:28	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:28	55002	NEWP_T1	0	2	2	0	0.45	0.45	-0.18	-0.2	0	0	0	0	0	0
1/26/2025 19:28	65205	PRIN_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
1/26/2025 19:28	64801	MONE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:28	11104	EGYP_T1	6	5	-1	0.9	0	-0.9	-0.45	-0.49	1	1	0	900	900	0
1/26/2025 19:28	63602	LETO_T1	0	0	0	0	0	0	-0.39	-0.46	0	0	0	0	0	0
1/26/2025 19:28	66902	SHIL_T2	0	0	0	0	0	0	-0.93	-0.91	0	0	0	0	0	0
1/26/2025 19:28	40902	JESH_T1	0	0	0	0	0	0	-1.28	-1.33	1	1	0	600	600	0
1/26/2025 19:28	59101	WALK_T2	1	1	0	1.6	3	1.4	0.4	0.37	1	1	0	600	600	0
1/26/2025 19:28	52403	GRPA_T2	6	23	17	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
1/26/2025 19:28	10801	CHHI_T1	1	1	0	0.5	0	-0.5	-1.36	-1.38	2	2	0	1500	1500	0
1/26/2025 19:28	40901	JESH_T1	1	1	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
1/26/2025 19:28	52402	GRPA_T2	25	51	26	1.02	0.79	-0.23	0	0	0	0	0	0	0	0
1/26/2025 19:28	64802	MONE_T2	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
1/26/2025 19:28	44902	SCOT_T2	0	0	0	0	0	0	-0.92	-0.92	0	0	0	0	0	0
1/26/2025 19:28	65702	RVIL_T2	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
1/26/2025 19:28	52401	GRPA_T2	22	41	19	0.52	0.48	-0.04	0	0	0	0	0	0	0	0
1/26/2025 19:29	44301	BEAV_T2	2	2	0	1.25	0	-1.25	-3.04	-2.94	2	2	0	1200	1200	0
1/26/2025 19:29	59402	RFLD_T2	0	0	0	0	0	0	-0.86	-0.86	1	1	0	450	450	0
1/26/2025 19:29	52002	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:29	55002	NEWP_T1	0	2	2	0	0.45	0.45	-0.36	-0.4	0	0	0	0	0	0
1/26/2025 19:29	42502	ALTA_T2	0	0	0	0	0	0	-1.28	-1.27	1	1	0	600	600	0
1/26/2025 19:29	20601	GRWO_T2	5	2	-3	0.66	0.4	-0.26	-0.08	-0.14	0	0	0	0	0	0
1/26/2025 19:29	20603	GRWO_T2	15	18	3	0.37	0	-0.37	0	0	0	0	0	0	0	0
1/26/2025 19:29	61701	ELIZ_T1	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
1/26/2025 19:29	52004	LING_T2	3	3	0	2.8	4	1.2	0	0	0	0	0	0	0	0
1/26/2025 19:29	42503	ALTA_T2	4	4	0	0.93	0.23	-0.7	0	0	0	0	0	0	0	0
1/26/2025 19:29	61703	ELIZ_T1	0	0	0	0	0	0	-0.81	-0.77	1	1	0	900	900	0
1/26/2025 19:29	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:29	55001	NEWP_T1	4	6	2	0.28	0.1	-0.18	0	0	0	0	0	0	0	0
1/26/2025 19:30	59102	WALK_T2	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
1/26/2025 19:30	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
1/26/2025 19:30	41801	GOCI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/26/2025 19:30	57702	PAXT_T1	0	0	0	0	0	0	-0.76	-0.73	0	0	0	0	0	0
1/26/2025 19:30	52402	GRPA_T2	25	52	27	0.79	1.03	0.24	0	0	0	0	0	0	0	0
1/26/2025 19:30	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:30	59202	THOM_T1	1	19	18	0.1	0.18	0.08	0	0	0	0	0	0	0	0
1/26/2025 19:30	41802	GOCI_T2	1	0	-1	8.7	0	-8.7	0	0	0	0	0	0	0	0
1/26/2025 19:30	52404	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/26/2025 19:30	52403	GRPA_T2	8	22	14	0.8	0.78	-0.02	0	0	0	0	0	0	0	0
1/26/2025 19:30	55002	NEWP_T1	2	3	1	0.15	0.4	0.25	-0.18	-0.2	0	0	0	0	0	0
1/26/2025 19:30	59201	THOM_T1	1	11	10	0.2	0.28	0.08	0	0	0	0	0	0	0	0
1/26/2025 19:30	59101	WALK_T2	1	1	0	3	3.6	0.6	0	0	0	0	0	0	0	0
1/26/2025 19:30	55001	NEWP_T1	6	1	-5	0.23	0	-0.23	0	0	0	0	0	0	0	0
1/26/2025 19:30	52401	GRPA_T2	17	41	24	0.51	0.34	-0.17	-0.59	-0.61	0	0	0	0	0	0
1/26/2025 19:30	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:31	52403	GRPA_T2	8	22	14	0.8	0.78	-0.02	-0.98	-0.42	0	0	0	0	0	0
1/26/2025 19:31	52004	LING_T2	3	2	-1	2.83	4	1.17	0	0	0	0	0	0	0	0
1/26/2025 19:31	59201	THOM_T1	1	11	10	0.2	0.28	0.08	0	0	0	0	0	0	0	0
1/26/2025 19:31	59202	THOM_T1	1	19	18	0.1	0.18	0.08	0	0	0	0	0	0	0	0
1/26/2025 19:31	52401	GRPA_T2	17	41	24	0.51	0.34	-0.17	0	0	0	0	0	0	0	0
1/26/2025 19:31	52404	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/26/2025 19:31	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:31	60201	ATGL_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
1/26/2025 19:31	65702	RVIL_T2	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
1/26/2025 19:31	66201	SISP_T2	3	1	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/26/2025 19:31	61702	ELIZ_T2	0	0	0	0	0	0	-0.71	-0.67	1	1	0	300	300	0
1/26/2025 19:31	52402	GRPA_T2	25	52	27	0.79	1.03	0.24	0	0	0	0	0	0	0	0
1/26/2025 19:31	52002	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:31	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
1/26/2025 19:31	52001	LING_T1	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
1/26/2025 19:31	40201	BEGA_T2	5	4	-1	0.82	0.9	0.08	0	0	0	0	0	0	0	0
1/26/2025 19:31	66203	SISP_T2	1	1	0	4.7	0.7	-4	0	0	0	0	0	0	0	0
1/26/2025 19:32	57704	PAXT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:32	65205	PRIN_T1	1	2	1	0.7	1.3	0.6	0	0	0	0	0	0	0	0
1/26/2025 19:32	41801	GOCI_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/26/2025 19:32	66903	SHIL_T2	0	0	0	0	0	0	-1.88	-1.88	0	0	0	0	0	0
1/26/2025 19:32	60201	ATGL_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
1/26/2025 19:32	64305	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:32	44905	SCOT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:32	67401	WAKE_T2	0	0	0	0	0	0	-1.11	-1.15	0	0	0	0	0	0
1/26/2025 19:32	41802	GOCI_T2	1	0	-1	8.7	0	-8.7	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/26/2025 19:32	64203	KINZ_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
1/26/2025 19:32	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:32	57505	LAWN_T3	2	4	2	0.3	0.3	0	0	0	0	0	0	0	0	0
1/26/2025 19:32	46002	BERW_T2	0	0	0	0	0	0	-1.42	-1.43	1	1	0	900	900	0
1/26/2025 19:32	65502	MOJO_T2	0	0	0	0	0	0	-1.11	-1.09	0	0	0	0	0	0
1/26/2025 19:32	46004	BERW_T2	8	14	6	0.31	0.25	-0.06	0	0	0	0	0	0	0	0
1/26/2025 19:32	64204	KINZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/26/2025 19:32	64202	KINZ_T1	0	0	0	0	0	0	0.55	0.61	0	0	0	0	0	0
1/26/2025 19:32	63501	HEID_TBK1-2	18	60	42	0.12	0.49	0.37	-1.04	-1.04	2	2	0	1800	1800	0
1/26/2025 19:32	57501	LAWN_T3	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
1/26/2025 19:33	46506	LOHA_T1	3	3	0	1.2	2.07	0.87	0	0	0	0	0	0	0	0
1/26/2025 19:33	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
1/26/2025 19:33	44901	SCOT_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
1/26/2025 19:33	40902	JESH_T1	0	0	0	0	0	0	-1.28	-1.33	1	1	0	600	600	0
1/26/2025 19:33	57704	PAXT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:33	67402	WAKE_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
1/26/2025 19:33	59402	RFLD_T2	0	0	0	0	0	0	-0.86	-0.86	1	1	0	450	450	0
1/26/2025 19:33	52502	PROG_T2	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
1/26/2025 19:33	40901	JESH_T1	1	1	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
1/26/2025 19:33	46501	LOHA_T1	4	7	3	1.53	1.14	-0.39	0	0	0	0	0	0	0	0
1/26/2025 19:33	67401	WAKE_T2	0	0	0	0	0	0	-1.11	-1.15	0	0	0	0	0	0
1/26/2025 19:34	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:34	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:34	64801	MONE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:34	41902	REED_T1	2	2	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
1/26/2025 19:34	40601	PIGR_T1	0	2	2	0	0	0	-0.12	-0.15	0	0	0	0	0	0
1/26/2025 19:34	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:34	44905	SCOT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:34	67402	WAKE_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
1/26/2025 19:34	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:34	41901	REED_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
1/26/2025 19:34	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
1/26/2025 19:35	57704	PAXT_T2	0	0	0	0	0	0	-0.37	-0.41	1	1	0	900	900	0
1/26/2025 19:35	64101	REFR_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
1/26/2025 19:35	44201	POIN_T1	0	0	0	0	0	0	-1.95	-1.96	1	1	0	1200	1200	0
1/26/2025 19:35	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:35	63602	LETO_T1	0	0	0	0	0	0	-0.39	-0.46	0	0	0	0	0	0
1/26/2025 19:35	61802	EELI_T2	0	0	0	0	0	0	-0.13	-0.24	0	0	0	0	0	0
1/26/2025 19:36	42601	TUSC_T1	165	178	13	1.17	1.3	0.13	-0.27	-0.34	2	2	0	1800	1800	0
1/26/2025 19:36	64101	REFR_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
1/26/2025 19:36	61304	EARL_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
1/26/2025 19:36	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:37	52401	GRPA_T2	17	41	24	0.51	0.34	-0.17	0	0	0	0	0	0	0	0
1/26/2025 19:37	52402	GRPA_T2	25	52	27	0.79	1.03	0.24	0	0	0	0	0	0	0	0
1/26/2025 19:37	64101	REFR_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
1/26/2025 19:37	52403	GRPA_T2	8	22	14	0.8	0.78	-0.02	-0.42	-0.4	0	0	0	0	0	0
1/26/2025 19:37	52404	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/26/2025 19:37	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:38	46506	LOHA_T1	3	3	0	1.2	2.07	0.87	0	0	0	0	0	0	0	0
1/26/2025 19:38	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
1/26/2025 19:38	46501	LOHA_T1	4	7	3	1.53	1.14	-0.39	0	0	0	0	0	0	0	0
1/26/2025 19:42	66903	SHIL_T2	0	0	0	0	0	0	-1.88	-1.9	0	0	0	0	0	0
1/26/2025 19:42	44301	BEAV_T2	0	2	2	0	0.6	0.6	-1.47	-1.49	1	1	0	600	600	0
1/26/2025 19:46	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2025 19:47	44801	EDAN_T2	1	2	1	0.7	1.2	0.5	-0.4	-0.43	0	0	0	0	0	0
1/26/2025 20:02	64904	MILL_T1	0	1	1	0	0	0	-0.17	-0.2	0	0	0	0	0	0
1/26/2025 20:26	46004	BERW_T2	1	10	9	0.6	0.34	-0.26	-0.73	-0.75	0	0	0	0	0	0
1/27/2025 0:00	13704	SCHN_T2	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
1/27/2025 7:46	26704	HEML_T2	0	0	0	0	0	0	-0.3	-0.34	0	0	0	0	0	0
1/27/2025 7:52	14103	TRUM_T2	12	7	-5	0.82	0.87	0.05	0	0	0	0	0	0	0	0
1/27/2025 7:52	14102	TRUM_T2	0	0	0	0	0	0	-1.17	-1.17	3	3	0	2400	2400	0
1/27/2025 7:52	55101	WERT_T1	1	0	-1	0.1	0	-0.1	-2.71	-2.49	4	4	0	3000	3000	0
1/27/2025 7:53	55101	WERT_T1	1	0	-1	0.1	0	-0.1	-1.35	-1.24	2	2	0	1500	1500	0
1/27/2025 7:57	53502	EVIL_T2	1	13	12	4.5	0.65	-3.85	0	0	0	0	0	0	0	0
1/27/2025 7:57	53501	EVIL_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
1/27/2025 8:01	43202	MVIL_T2	6	5	-1	0.6	0.6	0	0	0	0	0	0	0	0	0
1/27/2025 8:01	43201	MVIL_T2	2	1	-1	0.2	0	-0.2	-0.26	-0.28	0	0	0	0	0	0
1/27/2025 8:03	44701	MUNC_T2	9	18	9	0.27	0.33	0.06	0	0	0	0	0	0	0	0
1/27/2025 8:03	44702	MUNC_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 8:03	44703	MUNC_T2	13	9	-4	0.52	0.46	-0.06	0	0	0	0	0	0	0	0
1/27/2025 8:05	44702	MUNC_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 8:05	44701	MUNC_T2	9	18	9	0.27	0.33	0.06	0	0	0	0	0	0	0	0
1/27/2025 8:05	44703	MUNC_T2	13	9	-4	0.52	0.46	-0.06	0	0	0	0	0	0	0	0
1/27/2025 8:10	45501	DERR_T2	28	17	-11	0.64	0.66	0.02	0.83	0.75	2	2	0	1800	1800	0
1/27/2025 8:10	45502	DERR_T2	62	21	-41	0.45	0.63	0.18	0	0	0	0	0	0	0	0
1/27/2025 8:12	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 8:13	41802	GOO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 8:13	41801	GOO_T2	23	12	-11	0.4	0.55	0.15	0	0	0	0	0	0	0	0
1/27/2025 8:14	45501	DERR_T2	28	17	-11	0.64	0.66	0.02	0	0	0	0	0	0	0	0
1/27/2025 8:14	45502	DERR_T2	62	21	-41	0.45	0.63	0.18	-0.55	-0.56	0	0	0	0	0	0
1/27/2025 8:16	53501	EVIL_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/27/2025 8:16	53502	EVIL_T2	13	1	-12	0.68	3.6	2.92	0.29	0.33	2	2	0	1200	1200	0
1/27/2025 8:17	13503	MCMI_T2	0	0	0	0	0	0	0.41	0.36	0	0	0	0	0	0
1/27/2025 8:23	40201	BEGA_T2	4	2	-2	0.95	2.1	1.15	0	0	0	0	0	0	0	0
1/27/2025 8:24	49804	UNIV_T1	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
1/27/2025 8:24	66503	SMAN_T2	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
1/27/2025 8:24	49803	UNIV_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
1/27/2025 8:25	49803	UNIV_T1	1	1	0	6	6.1	0.1	-0.91	-0.93	0	0	0	0	0	0
1/27/2025 8:27	51804	EBEN_T2	0	0	0	0	0	0	-1.07	-1.06	1	1	0	900	900	0
1/27/2025 8:27	51802	EBEN_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 8:28	44502	HAMI_T2	2	1	-1	1.35	2.2	0.85	0	0	0	0	0	0	0	0
1/27/2025 8:28	40101	HUNT_T2	375	382	7	1.2	1.03	-0.17	-0.64	-0.65	0	0	0	0	0	0
1/27/2025 8:28	45502	DERR_T2	20	13	-7	0.55	0.71	0.16	0	0	0	0	0	0	0	0
1/27/2025 8:28	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 8:28	45501	DERR_T2	16	12	-4	0.86	0.5	-0.36	0.75	0.82	2	2	0	1800	1800	0
1/27/2025 8:30	44502	HAMI_T2	1	1	0	2	2.2	0.2	0	0	0	0	0	0	0	0
1/27/2025 8:30	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 8:31	20603	GRWO_T2	24	27	3	0.51	0.31	-0.2	0	0	0	0	0	0	0	0
1/27/2025 8:31	66303	MCGO_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
1/27/2025 8:31	20602	GRWO_T2	12	10	-2	0.96	0.1	-0.86	0	0	0	0	0	0	0	0
1/27/2025 8:31	66302	MCGO_T2	0	1	1	0	0.6	0.6	-1.15	-1.15	1	1	0	600	600	0
1/27/2025 8:31	20601	GRWO_T2	62	53	-9	0.69	0.41	-0.28	0.1	0.13	0	0	0	0	0	0
1/27/2025 8:33	66302	MCGO_T2	0	1	1	0	0.6	0.6	-1.15	-1.15	1	1	0	600	600	0
1/27/2025 8:33	66303	MCGO_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
1/27/2025 8:35	44905	SCOT_T1	2	10	8	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
1/27/2025 8:35	41902	REED_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 8:35	41901	REED_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/27/2025 8:35	41903	REED_T1	4	4	0	0.73	0	-0.73	0	0	0	0	0	0	0	0
1/27/2025 8:36	56504	ROCK_T2	2	1	-1	0.35	0	-0.35	0	0	0	0	0	0	0	0
1/27/2025 8:36	56501	ROCK_T2	4	3	-1	2.05	1.75	-0.3	-2.74	-2.94	0	0	0	0	0	0
1/27/2025 8:37	55101	WERT_T1	0	0	0	0	0	0	-1.18	-1.3	2	2	0	1500	1500	0
1/27/2025 8:37	41902	REED_T1	0	2	2	0	0	0	-0.51	-0.6	1	1	0	900	900	0
1/27/2025 8:37	64101	REFR_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
1/27/2025 8:37	41903	REED_T1	4	4	0	0.73	0	-0.73	0	0	0	0	0	0	0	0
1/27/2025 8:37	41901	REED_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/27/2025 8:38	44905	SCOT_T1	2	10	8	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
1/27/2025 8:38	64101	REFR_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
1/27/2025 8:40	55101	WERT_T1	0	0	0	0	0	0	-1.18	-1.3	2	2	0	1500	1500	0
1/27/2025 8:41	44801	EDAN_T2	1	0	-1	0.4	0	-0.4	-0.34	-0.32	0	0	0	0	0	0
1/27/2025 8:41	60404	DILL_T2	0	0	0	0	0	0	-1.19	-1.27	2	2	0	2400	2400	0
1/27/2025 8:41	53501	EVIL_T2	1	2	1	0.7	0.75	0.05	-1.6	-1.59	3	3	0	1800	1800	0
1/27/2025 8:41	53502	EVIL_T2	1	1	0	3.6	2.7	-0.9	0	0	0	0	0	0	0	0
1/27/2025 8:44	44801	EDAN_T2	1	0	-1	0.4	0	-0.4	-0.34	-0.32	0	0	0	0	0	0
1/27/2025 8:48	56501	ROCK_T2	2	3	1	3.15	1.75	-1.4	-1.37	-1.47	0	0	0	0	0	0
1/27/2025 8:48	56504	ROCK_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
1/27/2025 8:48	65703	RVIL_T1	0	0	0	0	0	0	-1.13	-1.1	1	1	0	900	900	0
1/27/2025 8:48	52102	MEIS_T1	3	2	-1	0.27	0	-0.27	0	0	1	1	0	450	450	0
1/27/2025 8:49	55002	NEWP_T1	3	6	3	0.57	0.72	0.15	-0.14	-0.16	0	0	0	0	0	0
1/27/2025 8:49	43202	MVIL_T2	4	2	-2	0.5	1.1	0.6	0	0	0	0	0	0	0	0
1/27/2025 8:49	65401	HARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 8:49	43201	MVIL_T2	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
1/27/2025 8:50	41903	REED_T1	4	2	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/27/2025 8:50	41902	REED_T1	2	0	-2	0.1	0	-0.1	-1.02	-1.2	2	2	0	1800	1800	0
1/27/2025 8:51	56501	ROCK_T2	2	3	1	3.15	1.75	-1.4	-1.47	-1.47	0	0	0	0	0	0
1/27/2025 8:51	56504	ROCK_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
1/27/2025 8:52	56504	ROCK_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
1/27/2025 8:52	56501	ROCK_T2	2	3	1	3.15	1.75	-1.4	-1.47	-1.47	0	0	0	0	0	0
1/27/2025 8:55	46204	DANV_T2	123	114	-9	0.99	0.46	-0.53	0	0	0	0	0	0	0	0
1/27/2025 8:55	43301	WATS_T2	1	1	0	2.2	1.2	-1	0	0	0	0	0	0	0	0
1/27/2025 8:55	46206	DANV_T2	57	27	-30	0.52	0.32	-0.2	0	0	0	0	0	0	0	0
1/27/2025 8:55	43302	WATS_T2	0	0	0	0	0	0	-0.5	-0.5	3	3	0	2400	2400	0
1/27/2025 8:55	46203	DANV_T2	6	9	3	0.15	0.52	0.37	-2.68	-2.66	0	0	0	0	0	0
1/27/2025 8:56	46204	DANV_T2	123	114	-9	0.99	0.46	-0.53	0	0	0	0	0	0	0	0
1/27/2025 8:56	46206	DANV_T2	57	27	-30	0.52	0.32	-0.2	2.61	2.71	1	1	0	1200	1200	0
1/27/2025 8:56	46203	DANV_T2	6	9	3	0.15	0.52	0.37	0	0	0	0	0	0	0	0
1/27/2025 8:57	46203	DANV_T2	6	9	3	0.15	0.52	0.37	-2.68	-2.66	0	0	0	0	0	0
1/27/2025 8:57	29402	BELT_T1	1	1	0	5.2	4.7	-0.5	0	0	0	0	0	0	0	0
1/27/2025 8:57	46204	DANV_T2	123	114	-9	0.99	0.46	-0.53	0	0	0	0	0	0	0	0
1/27/2025 8:57	46206	DANV_T2	57	27	-30	0.52	0.32	-0.2	0	0	0	0	0	0	0	0
1/27/2025 9:00	46602	LACR_T1	1	3	2	0.3	0.5	0.2	-0.55	-0.6	0	0	0	0	0	0
1/27/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
1/27/2025 9:00	44905	SCOT_T1	3	1	-2	0.17	0	-0.17	0	0	0	0	0	0	0	0
1/27/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
1/27/2025 9:00	55002	NEWP_T1	5	4	-1	0.82	0.48	-0.34	-0.16	-0.15	0	0	0	0	0	0
1/27/2025 9:04	55001	NEWP_T1	0	0	0	0	0	0	-0.71	-0.69	1	1	0	600	600	0
1/27/2025 9:04	55002	NEWP_T1	5	4	-1	0.82	0.48	-0.34	0	0	0	0	0	0	0	0
1/27/2025 9:05	46301	ROHR_T1	2	2	0	2.6	5	2.4	0	0	0	0	0	0	0	0
1/27/2025 9:05	46302	ROHR_T1	2	3	1	0.75	0.6	-0.15	0.28	0.25	0	0	0	0	0	0
1/27/2025 9:09	42601	TUSC_T1	99	211	112	2.18	1.48	-0.7	-0.42	-0.38	3	3	0	2400	2400	0
1/27/2025 9:10	46206	DANV_T2	25	29	4	0.34	0.27	-0.07	2.71	2.85	1	1	0	1200	1200	0
1/27/2025 9:10	46204	DANV_T2	99	117	18	0.47	0.72	0.25	0	0	0	0	0	0	0	0
1/27/2025 9:10	46203	DANV_T2	7	9	2	0.27	0.52	0.25	0	0	0	0	0	0	0	0
1/27/2025 9:10	29402	BELT_T1	1	1	0	4.7	4.9	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/27/2025 9:11	40201	BEGA_T2	3	2	-1	1.13	3	1.87	0	0	0	0	0	0	0	0
1/27/2025 9:11	51802	EBEN_T2	1	3	2	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/27/2025 9:11	51804	EBEN_T2	0	0	0	0	0	0	-1.12	-1.17	1	1	0	900	900	0
1/27/2025 9:12	46203	DANV_T2	7	9	2	0.27	0.52	0.25	0	0	0	0	0	0	0	0
1/27/2025 9:12	46204	DANV_T2	99	117	18	0.47	0.72	0.25	0	0	0	0	0	0	0	0
1/27/2025 9:12	46206	DANV_T2	25	29	4	0.34	0.27	-0.07	2.71	2.85	1	1	0	1200	1200	0
1/27/2025 9:14	46206	DANV_T2	25	29	4	0.34	0.27	-0.07	2.71	2.85	1	1	0	1200	1200	0
1/27/2025 9:14	51802	EBEN_T2	1	3	2	0.6	0	-0.6	-0.15	-0.08	1	1	0	900	900	0
1/27/2025 9:14	46204	DANV_T2	99	117	18	0.47	0.72	0.25	0	0	0	0	0	0	0	0
1/27/2025 9:14	46203	DANV_T2	7	9	2	0.27	0.52	0.25	0	0	0	0	0	0	0	0
1/27/2025 9:15	26704	HEMI_T2	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
1/27/2025 9:15	52001	LING_T1	0	0	0	0	0	0	-0.92	-0.92	0	0	0	0	0	0
1/27/2025 9:16	53501	EVIL_T2	1	2	1	0.1	0.7	0.6	-1.16	-1.14	2	2	0	1200	1200	0
1/27/2025 9:16	65205	PRIN_T1	2	2	0	1.4	0.1	-1.3	0	0	0	0	0	0	0	0
1/27/2025 9:16	53502	EVIL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
1/27/2025 9:16	13503	MCMI_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
1/27/2025 9:16	65202	PRIN_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
1/27/2025 9:19	64101	REFR_T1	0	0	0	0	0	0	0.07	0.03	0	0	0	0	0	0
1/27/2025 9:21	43304	WATS_T2	0	0	0	0	0	0	-0.69	-0.71	1	1	0	600	600	0
1/27/2025 9:21	43301	WATS_T2	1	1	0	1.2	0.1	-1.1	0	0	0	0	0	0	0	0
1/27/2025 9:21	55101	WERT_T1	0	3	3	0	0	0	-1.23	-1.33	2	2	0	1500	1500	0
1/27/2025 9:22	41902	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 9:22	66903	SHIL_T2	0	0	0	0	0	0	-1.82	-1.82	0	0	0	0	0	0
1/27/2025 9:22	55101	WERT_T1	0	3	3	0	0	0	-1.23	-1.33	2	2	0	1500	1500	0
1/27/2025 9:22	41903	REED_T1	2	4	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/27/2025 9:22	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 9:23	44902	SCOT_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
1/27/2025 9:23	44901	SCOT_T2	1	2	1	0.2	0.45	0.25	-0.2	-0.22	0	0	0	0	0	0
1/27/2025 9:23	55101	WERT_T1	0	3	3	0	0	0	-1.23	-1.33	2	2	0	1500	1500	0
1/27/2025 9:24	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 9:24	41902	REED_T1	0	1	1	0	0	0	-0.54	-0.64	1	1	0	900	900	0
1/27/2025 9:24	41903	REED_T1	2	4	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/27/2025 9:27	41801	GOCI_T2	2	2	0	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/27/2025 9:27	55101	WERT_T1	0	3	3	0	0	0	-1.23	-1.33	2	2	0	1500	1500	0
1/27/2025 9:28	10805	CHHI_T2	6	7	1	1.6	1.58	-0.02	-1.07	-1.2	1	1	0	600	600	0
1/27/2025 9:30	41801	GOCI_T2	2	0	-2	1.65	0	-1.65	0	0	0	0	0	0	0	0
1/27/2025 9:31	52004	LING_T2	2	2	0	4.25	4.8	0.55	0	0	0	0	0	0	0	0
1/27/2025 9:32	53501	EVIL_T2	1	2	1	0.5	0.9	0.4	0	0	0	0	0	0	0	0
1/27/2025 9:32	53502	EVIL_T2	1	1	0	2.1	0.4	-1.7	0	0	0	0	0	0	0	0
1/27/2025 9:35	64101	REFR_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
1/27/2025 9:36	64101	REFR_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
1/27/2025 9:37	55101	WERT_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
1/27/2025 9:37	64101	REFR_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
1/27/2025 9:38	55101	WERT_T1	3	0	-3	0.13	0	-0.13	-1.33	-1.33	2	2	0	1500	1500	0
1/27/2025 9:38	64101	REFR_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
1/27/2025 9:39	29402	BELT_T1	1	2	1	4.9	5.5	0.6	0	0	0	0	0	0	0	0
1/27/2025 9:40	55101	WERT_T1	3	0	-3	0.13	0	-0.13	-1.33	-1.33	2	2	0	1500	1500	0
1/27/2025 9:42	45501	DERR_T2	5	5	0	0.62	0.1	-0.52	1.45	1.14	4	4	0	3600	3600	0
1/27/2025 9:42	45502	DERR_T2	2	4	2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
1/27/2025 9:42	40101	HUNT_T2	226	254	28	0.98	0.85	-0.13	-0.67	-0.55	0	0	0	0	0	0
1/27/2025 9:42	10801	CHHI_T1	1	2	1	0.4	0.65	0.25	-1.35	-1.32	2	2	0	1500	1500	0
1/27/2025 9:43	40201	BEGA_T2	1	2	1	3	2.4	-0.6	0	0	0	0	0	0	0	0
1/27/2025 9:44	45501	DERR_T2	5	5	0	0.62	0.1	-0.52	0.73	0.57	2	2	0	1800	1800	0
1/27/2025 9:44	45502	DERR_T2	2	4	2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
1/27/2025 9:47	55002	NEWP_T1	2	3	1	0.55	0.63	0.08	0	0	0	0	0	0	0	0
1/27/2025 9:47	55001	NEWP_T1	0	0	0	0	0	0	-1.57	-1.58	2	2	0	1200	1200	0
1/27/2025 9:50	52502	PROG_T2	1	0	-1	0.1	0	-0.1	-0.41	-0.41	1	1	0	900	900	0
1/27/2025 9:50	65702	RVIL_T2	0	0	0	0	0	0	-1.45	-1.38	0	0	0	0	0	0
1/27/2025 9:50	64101	REFR_T1	0	1	1	0	0.2	0.2	0.02	0.02	0	0	0	0	0	0
1/27/2025 9:52	55101	WERT_T1	0	0	0	0	0	0	-1.33	-1.44	2	2	0	1500	1500	0
1/27/2025 9:52	65702	RVIL_T2	0	0	0	0	0	0	-1.38	-1.36	0	0	0	0	0	0
1/27/2025 9:53	64101	REFR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/27/2025 9:54	40201	BEGA_T2	1	2	1	2.7	1.4	-1.3	0	0	0	0	0	0	0	0
1/27/2025 9:58	63803	HEMP_T1	1	12	11	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
1/27/2025 9:58	63804	HEMP_T1	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
1/27/2025 9:58	17804	GILB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/27/2025 9:58	63801	HEMP_T1	2	2	0	0.15	0.5	0.35	0	0	0	0	0	0	0	0
1/27/2025 9:58	17805	GILB_T2	0	0	0	0	0	0	-0.69	-0.74	0	0	0	0	0	0
1/27/2025 9:58	63802	HEMP_T1	0	1	1	0	0.3	0.3	0.29	0.23	0	0	0	0	0	0
1/27/2025 9:58	44801	EDAN_T2	1	2	1	0.9	0.3	-0.6	-0.31	-0.28	0	0	0	0	0	0
1/27/2025 9:59	17805	GILB_T2	0	0	0	0	0	0	-0.69	-0.74	0	0	0	0	0	0
1/27/2025 9:59	63501	HEID_TBK1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 9:59	17804	GILB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/27/2025 10:00	44801	EDAN_T2	1	1	0	0.3	1.5	1.2	-0.31	-0.28	0	0	0	0	0	0
1/27/2025 10:01	63601	LETO_T1	4	4	0	0.45	0.55	0.1	0.2	0.34	1	1	0	900	900	0
1/27/2025 10:04	44902	SCOT_T2	4	5	1	0.38	0.34	-0.04	-0.92	-0.94	0	0	0	0	0	0
1/27/2025 10:04	44901	SCOT_T2	8	16	8	0.39	0.28	-0.11	0	0	0	0	0	0	0	0
1/27/2025 10:04	55001	NEWP_T1	0	0	0	0	0	0	-0.79	-0.82	1	1	0	600	600	0
1/27/2025 10:04	55002	NEWP_T1	2	3	1	0.85	0.73	-0.12	0	0	0	0	0	0	0	0
1/27/2025 10:05	44902	SCOT_T2	4	5	1	0.38	0.34	-0.04	0	0	0	0	0	0	0	0
1/27/2025 10:05	44901	SCOT_T2	8	16	8	0.39	0.28	-0.11	-0.18	-0.09	0	0	0	0	0	0
1/27/2025 10:06	41902	REED_T1	0	1	1	0	0.1	0.1	-0.66	-0.63	1	1	0	900	900	0
1/27/2025 10:06	41903	REED_T1	4	0	-4	0.38	0	-0.38	0	0	0	0	0	0	0	0
1/27/2025 10:07	44901	SCOT_T2	8	16	8	0.39	0.28	-0.11	0	0	0	0	0	0	0	0
1/27/2025 10:07	44902	SCOT_T2	4	5	1	0.38	0.34	-0.04	-0.94	-0.91	0	0	0	0	0	0
1/27/2025 10:08	67401	WAKE_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/27/2025 10:09	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 10:10	67401	WAKE_T2	1	1	0	0.1	0.1	0	-0.89	-0.94	0	0	0	0	0	0
1/27/2025 10:10	67402	WAKE_T2	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
1/27/2025 10:11	67401	WAKE_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/27/2025 10:11	67402	WAKE_T2	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
1/27/2025 10:12	44301	BEAV_T2	0	0	0	0	0	0	0.06	-0.03	2	2	0	1500	1500	0
1/27/2025 10:15	61802	EELI_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
1/27/2025 10:23	60201	ATGL_T2	6	9	3	0.18	0.31	0.13	0.16	0.17	0	0	0	0	0	0
1/27/2025 10:27	53903	HALI_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
1/27/2025 10:27	53902	HALI_T2	1	1	0	5.2	5.3	0.1	-0.89	-0.95	0	0	0	0	0	0
1/27/2025 10:27	53501	EVIL_T2	2	2	0	0.8	1	0.2	-2.34	-2.53	4	4	0	2400	2400	0
1/27/2025 10:27	53502	EVIL_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
1/27/2025 10:27	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/27/2025 10:28	53903	HALI_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
1/27/2025 10:28	45502	DERR_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/27/2025 10:28	45501	DERR_T2	0	2	2	0	0	0	0.33	0.22	2	2	0	1800	1800	0
1/27/2025 10:28	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
1/27/2025 10:28	53501	EVIL_T2	2	2	0	0.8	1	0.2	-1.17	-1.27	2	2	0	1200	1200	0
1/27/2025 10:28	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/27/2025 10:28	53502	EVIL_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
1/27/2025 10:28	53901	HALI_T2	0	1	1	0	0.1	0.1	-1.37	-1.37	0	0	0	0	0	0
1/27/2025 10:28	29402	BELT_T1	1	1	0	5.8	6.5	0.7	0	0	0	0	0	0	0	0
1/27/2025 10:29	44801	EDAN_T2	1	1	0	1.5	0	-1.5	-0.37	-0.39	0	0	0	0	0	0
1/27/2025 10:29	53902	HALI_T2	1	1	0	5.2	5.3	0.1	-1.78	-1.9	0	0	0	0	0	0
1/27/2025 10:29	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/27/2025 10:29	53903	HALI_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
1/27/2025 10:30	46506	LOHA_T1	4	4	0	2.2	2.23	0.03	0	0	0	0	0	0	0	0
1/27/2025 10:30	46501	LOHA_T1	2	1	-1	0.65	0.7	0.05	0	0	0	0	0	0	0	0
1/27/2025 10:30	53502	EVIL_T2	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
1/27/2025 10:30	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.59	0	0	0	0	0	0
1/27/2025 10:30	53501	EVIL_T2	2	3	1	1	0.67	-0.33	-1.17	-1.27	2	2	0	1200	1200	0
1/27/2025 10:30	46504	LOHA_T1	1	2	1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/27/2025 10:31	53903	HALI_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
1/27/2025 10:31	53902	HALI_T2	1	1	0	5	5.3	0.3	-0.89	-0.95	0	0	0	0	0	0
1/27/2025 10:31	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.59	0	0	0	0	0	0
1/27/2025 10:31	46506	LOHA_T1	4	4	0	2.2	2.23	0.03	0	0	0	0	0	0	0	0
1/27/2025 10:31	46504	LOHA_T1	1	2	1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
1/27/2025 10:31	46501	LOHA_T1	2	1	-1	0.65	0.7	0.05	0	0	0	0	0	0	0	0
1/27/2025 10:31	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/27/2025 10:32	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/27/2025 10:32	53501	EVIL_T2	2	3	1	1	0.67	-0.33	-1.17	-1.27	2	2	0	1200	1200	0
1/27/2025 10:32	53903	HALI_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
1/27/2025 10:32	53502	EVIL_T2	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
1/27/2025 10:32	53902	HALI_T2	1	1	0	5	5.3	0.3	-0.89	-0.95	0	0	0	0	0	0
1/27/2025 10:33	53502	EVIL_T2	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
1/27/2025 10:33	53501	EVIL_T2	2	3	1	1	0.67	-0.33	-1.17	-1.27	2	2	0	1200	1200	0
1/27/2025 10:34	63302	GREE_T1	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
1/27/2025 10:34	63305	GREE_T1	7	0	-7	0.29	0	-0.29	0	0	0	0	0	0	0	0
1/27/2025 10:34	63306	GREE_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
1/27/2025 10:36	44902	SCOT_T2	5	56	51	0.34	0.21	-0.13	0	0	0	0	0	0	0	0
1/27/2025 10:36	44901	SCOT_T2	16	63	47	0.28	0.25	-0.03	-0.07	0.07	0	0	0	0	0	0
1/27/2025 10:38	55105	WERT_T1	0	0	0	0	0	0	-0.47	-0.48	1	1	0	900	900	0
1/27/2025 10:38	55101	WERT_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/27/2025 10:40	10801	CHHI_T1	3	2	-1	0.77	0.85	0.08	-1.37	-1.37	2	2	0	1500	1500	0
1/27/2025 10:40	46004	BERW_T2	0	0	0	0	0	0	-0.42	-0.45	0	0	0	0	0	0
1/27/2025 10:40	46002	BERW_T2	0	0	0	0	0	0	-1.15	-1.14	1	1	0	900	900	0
1/27/2025 10:40	27901	BCRK_T1	4	3	-1	2.4	3.65	1.25	0	0	0	0	0	0	0	0
1/27/2025 10:43	22602	KIMB_T1	0	0	0	0	0	0	0.3	0.56	0	0	0	0	0	0
1/27/2025 10:43	22601	KIMB_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
1/27/2025 10:44	64305	LINC_T1	1	1	0	0.3	0.3	0	-0.18	-1.41	0	0	0	0	0	0
1/27/2025 10:44	10801	CHHI_T1	3	2	-1	0.77	0.85	0.08	-1.37	-1.37	2	2	0	1500	1500	0
1/27/2025 10:49	58401	MORO_T1	0	1	1	0	0.1	0.1	-3.58	-3.68	2	2	0	1200	1200	0
1/27/2025 10:49	22601	KIMB_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
1/27/2025 10:49	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.28	0	0	0	0	0	0
1/27/2025 10:50	58401	MORO_T1	0	1	1	0	0.1	0.1	-1.79	-1.84	1	1	0	600	600	0
1/27/2025 10:51	64301	LINC_T1	0	0	0	0	0	0	0.12	0.08	1	1	0	600	600	0
1/27/2025 10:51	64305	LINC_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
1/27/2025 10:52	42601	TUSC_T1	118	115	-3	1.43	1.5	0.07	-0.37	-0.41	3	3	0	2400	2400	0
1/27/2025 10:53	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.26	0	0	0	0	0	0
1/27/2025 10:53	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 10:53	67401	WAKE_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/27/2025 10:55	46203	DANV_T2	0	0	0	0	0	0	-1.82	-1.84	0	0	0	0	0	0
1/27/2025 10:55	46204	DANV_T2	13	11	-2	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
1/27/2025 10:56	46203	DANV_T2	0	0	0	0	0	0	-1.82	-1.84	0	0	0	0	0	0
1/27/2025 10:56	46204	DANV_T2	13	11	-2	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
1/27/2025 10:57	52402	GRPA_T2	27	28	1	0.51	0.36	-0.15	0	0	0	0	0	0	0	0
1/27/2025 10:57	46203	DANV_T2	0	0	0	0	0	0	-1.82	-1.84	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/27/2025 10:57	52401	GRPA_T2	0	0	0	0	0	0	-0.58	-0.69	0	0	0	0	0	0
1/27/2025 10:57	52403	GRPA_T2	11	20	9	0.64	0.66	0.02	0	0	0	0	0	0	0	0
1/27/2025 10:57	46204	DANV_T2	13	11	-2	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
1/27/2025 10:59	46204	DANV_T2	13	11	-2	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
1/27/2025 10:59	46203	DANV_T2	0	0	0	0	0	0	-1.82	-1.84	0	0	0	0	0	0
1/27/2025 11:04	64901	MILL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/27/2025 11:04	66203	SISP_T2	0	0	0	0	0	0	-0.98	-1.02	2	2	0	1800	1800	0
1/27/2025 11:04	64904	MILL_T1	0	0	0	0	0	0	-0.28	-0.32	0	0	0	0	0	0
1/27/2025 11:07	64305	LINC_T1	1	1	0	0.3	1.2	0.9	0	0	0	0	0	0	0	0
1/27/2025 11:07	59202	THOM_T1	0	7	7	0	0.24	0.24	0	0	0	0	0	0	0	0
1/27/2025 11:07	59201	THOM_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
1/27/2025 11:08	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 11:14	52004	LING_T2	2	2	0	4.35	4.65	0.3	0	0	0	0	0	0	0	0
1/27/2025 11:17	52004	LING_T2	2	2	0	4.35	4.65	0.3	0.09	0.09	0	0	0	0	0	0
1/27/2025 11:18	11804	FRAN_T1	0	1	1	0	0.4	0.4	0.89	0.92	0	0	0	0	0	0
1/27/2025 11:19	41902	REED_T1	1	4	3	0.3	0	-0.3	0.27	0.25	1	1	0	900	900	0
1/27/2025 11:19	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 11:20	41902	REED_T1	1	4	3	0.3	0	-0.3	0.27	0.25	1	1	0	900	900	0
1/27/2025 11:21	64101	REFR_T1	2	2	0	0.3	0.4	0.1	-0.03	-0.02	0	0	0	0	0	0
1/27/2025 11:22	53101	WTWN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 11:22	64101	REFR_T1	2	2	0	0.3	0.4	0.1	-0.02	-0.07	0	0	0	0	0	0
1/27/2025 11:22	66501	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/27/2025 11:22	66504	SMAN_T2	2	3	1	0.45	0.67	0.22	-1.75	-0.47	1	0	-1	1200	0	-1200
1/27/2025 11:22	41902	REED_T1	1	4	3	0.3	0	-0.3	0.25	0.26	1	1	0	900	900	0
1/27/2025 11:22	53102	WTWN_T1	0	0	0	0	0	0	-1.08	-1.08	0	0	0	0	0	0
1/27/2025 11:23	66504	SMAN_T2	2	3	1	0.45	0.67	0.22	0	0	0	0	0	0	0	0
1/27/2025 11:23	44901	SCOT_T2	19	52	33	0.26	0.26	0	0.05	0.02	0	0	0	0	0	0
1/27/2025 11:23	66503	SMAN_T2	0	0	0	0	0	0	0.45	0.35	0	0	0	0	0	0
1/27/2025 11:23	66501	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/27/2025 11:23	44902	SCOT_T2	5	9	4	0.54	0.44	-0.1	0	0	0	0	0	0	0	0
1/27/2025 11:24	65702	RVIL_T2	0	0	0	0	0	0	-1.34	-1.25	0	0	0	0	0	0
1/27/2025 11:24	64101	REFR_T1	2	2	0	0.3	0.4	0.1	-0.02	-0.07	0	0	0	0	0	0
1/27/2025 11:25	66501	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/27/2025 11:25	64101	REFR_T1	2	2	0	0.3	0.4	0.1	-0.02	-0.07	0	0	0	0	0	0
1/27/2025 11:25	66504	SMAN_T2	2	3	1	0.45	0.67	0.22	-3.49	-0.93	2	0	-2	2400	0	-2400
1/27/2025 11:25	66505	SMAN_T2	0	0	0	0	0	0	-0.12	-0.16	1	1	0	900	900	0
1/27/2025 11:25	53102	WTWN_T1	0	0	0	0	0	0	-1.08	-1.08	0	0	0	0	0	0
1/27/2025 11:25	53101	WTWN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 11:28	11804	FRAN_T1	0	1	1	0	0.4	0.4	0.92	0.9	0	0	0	0	0	0
1/27/2025 11:32	41001	LAUR_T2	43	71	28	0.25	0.44	0.19	0	0	0	0	0	0	0	0
1/27/2025 11:32	41002	LAUR_T2	4	30	26	0.68	0.28	-0.4	0.08	0	0	0	0	0	0	0
1/27/2025 11:33	52004	LING_T2	2	2	0	4.65	4.5	-0.15	0.09	0.09	0	0	0	0	0	0
1/27/2025 11:33	55002	NEWP_T1	4	4	0	0.78	0.88	0.1	-0.18	-0.16	0	0	0	0	0	0
1/27/2025 11:35	41902	REED_T1	0	4	4	0	0	0	0.25	0.26	1	1	0	900	900	0
1/27/2025 11:38	65901	SAKR_T2	1	1	0	0.2	0.7	0.5	-1.8	-1.69	2	2	0	1500	1500	0
1/27/2025 11:40	16101	BING_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
1/27/2025 11:40	16102	BING_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/27/2025 11:40	16103	BING_T2	0	0	0	0	0	0	-1.58	-1.59	1	1	0	900	900	0
1/27/2025 11:42	11901	ETEX_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
1/27/2025 11:42	61304	EARL_T1	1	1	0	0.2	0.3	0.1	-0.65	-0.66	1	1	0	600	600	0
1/27/2025 11:43	61505	EPET_T1	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
1/27/2025 11:44	16103	BING_T2	0	0	0	0	0	0	-1.58	-1.59	1	1	0	900	900	0
1/27/2025 11:44	65901	SAKR_T2	1	1	0	0.2	0.7	0.5	-1.8	-1.69	2	2	0	1500	1500	0
1/27/2025 11:44	16102	BING_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/27/2025 11:44	16101	BING_T2	2	2	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
1/27/2025 11:50	20601	GRWO_T2	1	1	0	2.2	2	-0.2	0	0	0	0	0	0	0	0
1/27/2025 11:50	20603	GRWO_T2	0	7	7	0	0.19	0.19	-0.5	-0.54	1	1	0	900	900	0
1/27/2025 11:51	41902	REED_T1	4	0	-4	0.8	0	-0.8	0.26	0.32	1	1	0	900	900	0
1/27/2025 11:52	60301	TWVA_T2	0	0	0	0	0	0	-1.74	-1.82	2	2	0	1800	1800	0
1/27/2025 11:52	55105	WERT_T1	0	0	0	0	0	0	-0.52	-0.52	1	1	0	900	900	0
1/27/2025 11:54	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 11:54	44905	SCOT_T1	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/27/2025 11:57	61701	ELIZ_T1	2	2	0	3.2	3.45	0.25	0.22	0.35	0	0	0	0	0	0
1/27/2025 11:57	61703	ELIZ_T1	1	5	4	0.1	0.34	0.24	0	0	0	0	0	0	0	0
1/27/2025 11:58	52401	GRPA_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
1/27/2025 11:58	52404	GRPA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/27/2025 11:58	52403	GRPA_T2	33	31	-2	0.73	0.84	0.11	-0.57	-0.69	0	0	0	0	0	0
1/27/2025 11:58	46802	HEPB_T1	2	2	0	2.55	1.3	-1.25	-1.21	-1.29	0	0	0	0	0	0
1/27/2025 11:58	44502	HAMI_T2	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0	0
1/27/2025 11:58	44505	HAMI_T2	2	2	0	0.2	0.2	0	-0.12	-0.13	0	0	0	0	0	0
1/27/2025 11:58	52402	GRPA_T2	8	7	-1	0.71	0.73	0.02	0	0	0	0	0	0	0	0
1/27/2025 11:59	64204	KINZ_T1	3	27	24	0.8	0.49	-0.31	0	0	0	0	0	0	0	0
1/27/2025 11:59	54501	ENOL_T2	0	0	0	0	0	0	-0.53	-0.5	1	1	0	600	600	0
1/27/2025 11:59	44505	HAMI_T2	2	2	0	0.2	0.2	0	-0.12	-0.13	0	0	0	0	0	0
1/27/2025 11:59	64202	KINZ_T1	2	4	2	0.25	0.43	0.18	0.86	0.82	0	0	0	0	0	0
1/27/2025 11:59	44502	HAMI_T2	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0	0
1/27/2025 11:59	64203	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/27/2025 12:00	52403	GRPA_T2	31	23	-8	0.83	0.84	0.01	-0.57	-0.69	0	0	0	0	0	0
1/27/2025 12:00	44505	HAMI_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/27/2025 12:00	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/27/2025 12:00	44502	HAMI_T2	1	1	0	2.7	2.4	-0.3	0	0	0	0	0	0	0	0
1/27/2025 12:00	52402	GRPA_T2	7	5	-2	0.73	0.84	0.11	0	0	0	0	0	0	0	0
1/27/2025 12:00	52401	GRPA_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
1/27/2025 12:03	52403	GRPA_T2	31	23	-8	0.83	0.84	0.01	0	0	0	0	0	0	0	0
1/27/2025 12:03	52401	GRPA_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
1/27/2025 12:03	52402	GRPA_T2	7	5	-2	0.73	0.84	0.11	0	0	0	0	0	0	0	0
1/27/2025 12:03	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/27/2025 12:07	41902	REED_T1	0	0	0	0	0	0	0.21	0.22	1	1	0	900	900	0
1/27/2025 12:11	46003	BERW_T2	2	4	2	0.2	0.28	0.08	0	0	0	0	0	0	0	0
1/27/2025 12:11	46004	BERW_T2	0	1	1	0	0.3	0.3	-0.39	-0.45	0	0	0	0	0	0
1/27/2025 12:11	46002	BERW_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/27/2025 12:13	61302	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/27/2025 12:13	61304	EARL_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
1/27/2025 12:13	61303	EARL_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
1/27/2025 12:16	63804	HEMP_T1	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
1/27/2025 12:16	63801	HEMP_T1	3	5	2	0	1.88	1.38	0	0	0	0	0	0	0	0
1/27/2025 12:16	63802	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/27/2025 12:16	63803	HEMP_T1	2	2	0	0.3	0.4	0.1	0.21	0.15	0	0	0	0	0	0
1/27/2025 12:17	63803	HEMP_T1	2	2	0	0.3	0.4	0.1	0.21	0.15	0	0	0	0	0	0
1/27/2025 12:17	63802	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/27/2025 12:17	63801	HEMP_T1	3	5	2	0.5	1.88	1.38	0	0	0	0	0	0	0	0
1/27/2025 12:17	59302	MCAL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/27/2025 12:17	59301	MCAL_T1	11	11	0	0.68	0.63	-0.05	-1.55	-1.55	1	1	0	600	600	0
1/27/2025 12:17	63804	HEMP_T1	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
1/27/2025 12:19	63802	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/27/2025 12:19	63803	HEMP_T1	2	2	0	0.3	0.4	0.1	0.21	0.15	0	0	0	0	0	0
1/27/2025 12:19	63801	HEMP_T1	3	5	2	0.5	1.88	1.38	0	0	0	0	0	0	0	0
1/27/2025 12:19	63804	HEMP_T1	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
1/27/2025 12:22	13901	SEID_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/27/2025 12:22	13905	SEID_T1	1	1	0	0.1	0.4	0.3	-1.02	-1	1	1	0	1200	1200	0
1/27/2025 12:22	13904	SEID_T1	14	17	3	0.25	0.31	0.06	0	0	0	0	0	0	0	0
1/27/2025 12:23	63601	LETO_T1	5	6	1	0.32	0.52	0.2	0.26	0.16	1	1	0	900	900	0
1/27/2025 12:23	60201	ATGL_T2	6	6	0	0.18	0.22	0.04	0.82	0.79	0	0	0	0	0	0
1/27/2025 12:23	43402	BENT_T1	2	90	88	1.1	0.44	-0.66	-0.84	-0.83	1	1	0	900	900	0
1/27/2025 12:25	43402	BENT_T1	2	90	88	1.1	0.44	-0.66	-0.84	-0.83	1	1	0	900	900	0
1/27/2025 12:25	60201	ATGL_T2	6	6	0	0.18	0.22	0.04	0	0	0	0	0	0	0	0
1/27/2025 12:27	45501	DERR_T2	0	0	0	0	0	0	0.01	0.01	2	2	0	1800	1800	0
1/27/2025 12:28	61703	ELIZ_T1	2	8	6	0.55	0.49	-0.06	0	0	0	0	0	0	0	0
1/27/2025 12:28	61803	EELI_T2	0	0	0	0	0	0	0.91	0.94	0	0	0	0	0	0
1/27/2025 12:28	14502	SCHO_T1	1	1	0	0.2	0.5	0.3	0.24	0.25	0	0	0	0	0	0
1/27/2025 12:28	61801	EELI_T2	3	6	3	0.37	0.37	0	0	0	0	0	0	0	0	0
1/27/2025 12:28	61701	ELIZ_T1	2	3	1	3.35	2.33	-1.02	0	0	0	0	0	0	0	0
1/27/2025 12:30	52402	GRPA_T2	5	5	0	0.84	0.66	-0.18	0	0	0	0	0	0	0	0
1/27/2025 12:30	52401	GRPA_T2	2	1	-1	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
1/27/2025 12:30	52403	GRPA_T2	22	23	1	0.88	0.79	-0.09	-1.56	-1.49	0	0	0	0	0	0
1/27/2025 12:32	17401	FOHI_T1	0	0	0	0	0	0	-1.03	-1.01	0	0	0	0	0	0
1/27/2025 12:36	43304	WATS_T2	0	0	0	0	0	0	-0.21	-0.09	0	0	0	0	0	0
1/27/2025 12:38	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 12:39	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 12:39	64305	LINC_T1	1	1	0	0.6	0.5	-0.1	-0.81	-0.76	0	0	0	0	0	0
1/27/2025 12:40	43304	WATS_T2	0	0	0	0	0	0	-0.09	-0.19	0	0	0	0	0	0
1/27/2025 12:44	61701	ELIZ_T1	2	3	1	3.35	2.33	-1.02	0	0	0	0	0	0	0	0
1/27/2025 12:44	61703	ELIZ_T1	6	8	2	0.37	0.49	0.12	-1.06	-0.63	1	1	0	900	900	0
1/27/2025 12:45	48902	FOSP_T2	12	6	-6	0.25	0.45	0.2	-2.71	-2.85	4	4	0	4800	4800	0
1/27/2025 12:51	43202	MVIL_T2	41	6	-35	0.23	0.35	0.12	-0.54	-0.55	0	0	0	0	0	0
1/27/2025 12:53	46002	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/27/2025 12:53	46003	BERW_T2	4	2	-2	0.2	0.2	0	0	0	0	0	0	0	0	0
1/27/2025 12:53	46004	BERW_T2	2	2	0	0.2	0.15	-0.05	-0.48	-0.52	0	0	0	0	0	0
1/27/2025 12:54	44902	SCOT_T2	80	4	-76	0.19	0.43	0.24	-0.95	-0.94	0	0	0	0	0	0
1/27/2025 12:54	44901	SCOT_T2	106	18	-88	0.34	0.28	-0.06	0	0	0	0	0	0	0	0
1/27/2025 12:58	54505	ENOL_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/27/2025 12:58	54504	ENOL_T2	0	0	0	0	0	0	-1.08	-1.06	1	1	0	600	600	0
1/27/2025 13:02	54504	ENOL_T2	0	0	0	0	0	0	-1.08	-1.06	1	1	0	600	600	0
1/27/2025 13:02	54505	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/27/2025 13:03	53501	EVIL_T2	2	4	2	0.25	0.38	0.13	-1.38	-1.38	2	2	0	1200	1200	0
1/27/2025 13:13	51006	NHAR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/27/2025 13:13	51002	NHAR_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/27/2025 13:13	51004	NHAR_T1	2	2	0	6.2	6.15	-0.05	0	0	0	0	0	0	0	0
1/27/2025 13:13	51003	NHAR_T1	7	7	0	1.89	2.08	0.19	0	0	0	0	0	0	0	0
1/27/2025 13:14	64204	KINZ_T1	6	17	11	0.53	0.44	-0.09	0	0	0	0	0	0	0	0
1/27/2025 13:14	11405	FARM_T1	119	120	1	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
1/27/2025 13:14	11402	FARM_T1	4	3	-1	0.18	0.13	-0.05	0	0	0	0	0	0	0	0
1/27/2025 13:14	16102	BING_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/27/2025 13:14	16103	BING_T2	0	0	0	0	0	0	-1.6	-1.63	1	1	0	900	900	0
1/27/2025 13:14	11401	FARM_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/27/2025 13:14	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 13:14	11404	FARM_T1	0	0	0	0	0	0	-0.51	-0.51	1	1	0	1200	1200	0
1/27/2025 13:14	11406	FARM_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
1/27/2025 13:14	16101	BING_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
1/27/2025 13:14	11403	FARM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/27/2025 13:16	63803	HEMP_T1	3	23	20	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
1/27/2025 13:16	63801	HEMP_T1	3	5	2	0.53	0.58	0.05	0	0	0	0	0	0	0	0
1/27/2025 13:16	63802	HEMP_T1	0	4	4	0	0.2	0.2	0.15	0.22	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/27/2025 13:16	63804	HEMP_T1	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
1/27/2025 13:17	52004	LING_T2	2	2	0	4.8	4.5	-0.3	0	0	0	0	0	0	0	0
1/27/2025 13:28	53901	HALI_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
1/27/2025 13:28	53902	HALI_T2	1	1	0	5.2	5.1	-0.1	-0.94	-0.98	0	0	0	0	0	0
1/27/2025 13:28	53903	HALI_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/27/2025 13:30	53901	HALI_T2	0	1	1	0	0.1	0.1	-1.38	-1.47	0	0	0	0	0	0
1/27/2025 13:30	53903	HALI_T2	2	3	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
1/27/2025 13:30	53902	HALI_T2	1	1	0	4.9	5.1	0.2	0	0	0	0	0	0	0	0
1/27/2025 13:33	64204	KINZ_T1	17	25	8	0.44	0.56	0.12	0	0	0	0	0	0	0	0
1/27/2025 13:33	64203	KINZ_T1	0	0	0	0	0	0	0.94	0.89	0	0	0	0	0	0
1/27/2025 13:33	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/27/2025 13:38	42701	AUGU_T1	1	1	0	0.8	1.1	0.3	0	0	2	2	0	1800	1800	0
1/27/2025 13:39	22003	BOHE_T1	1	3	2	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
1/27/2025 13:39	22002	BOHE_T1	0	0	0	0	0	0	0.28	0.34	0	0	0	0	0	0
1/27/2025 13:41	42701	AUGU_T1	1	1	0	0.8	1.1	0.3	0	0	2	2	0	1800	1800	0
1/27/2025 13:44	11402	FARM_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/27/2025 13:44	11406	FARM_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
1/27/2025 13:44	11405	FARM_T1	112	132	20	0.19	0.22	0.03	-1.13	-1.15	1	1	0	1200	1200	0
1/27/2025 13:46	11405	FARM_T1	129	105	-24	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
1/27/2025 13:46	11402	FARM_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/27/2025 13:46	11406	FARM_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/27/2025 13:47	53501	EVIL_T2	2	6	4	0.6	0.52	-0.08	-1.34	-1.29	2	2	0	1200	1200	0
1/27/2025 13:58	46803	HEPB_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/27/2025 13:58	46801	HEPB_T2	3	3	0	0.6	0.53	-0.07	0.64	0.61	0	0	0	0	0	0
1/27/2025 13:58	61506	EPET_T2	0	0	0	0	0	0	-1.64	-1.67	2	2	0	1800	1800	0
1/27/2025 13:59	46803	HEPB_T2	1	1	0	0.2	0.3	0.1	0.33	0.39	0	0	0	0	0	0
1/27/2025 13:59	46801	HEPB_T2	3	3	0	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
1/27/2025 13:59	40101	HUNT_T2	42	58	16	0.63	0.81	0.18	-0.65	-0.67	0	0	0	0	0	0
1/27/2025 14:01	54504	ENOL_T2	0	0	0	0	0	0	-1.09	-1.1	1	1	0	600	600	0
1/27/2025 14:01	63501	HEID_TBK1-2	0	0	0	0	0	0	0.16	-0.08	2	2	0	1800	1800	0
1/27/2025 14:01	54505	ENOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/27/2025 14:02	40101	HUNT_T2	46	61	15	0.71	0.83	0.12	-0.65	-0.67	0	0	0	0	0	0
1/27/2025 14:09	64305	LINC_T1	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
1/27/2025 14:21	67002	STHI_T2	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
1/27/2025 14:25	45501	DERR_T2	0	0	0	0	0	0	0.23	0.4	2	2	0	1800	1800	0
1/27/2025 14:27	45501	DERR_T2	0	0	0	0	0	0	0.23	0.4	2	2	0	1800	1800	0
1/27/2025 14:28	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 14:34	66504	SMAN_T2	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0	0
1/27/2025 14:34	66505	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/27/2025 14:35	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/27/2025 14:35	65702	RVIL_T2	0	0	0	0	0	0	-1.45	-1.53	0	0	0	0	0	0
1/27/2025 14:35	67002	STHI_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
1/27/2025 14:36	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/27/2025 14:36	67002	STHI_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
1/27/2025 14:36	13904	SEID_T1	18	31	13	1.22	0.78	-0.44	0.33	0.34	0	0	0	0	0	0
1/27/2025 14:37	67002	STHI_T2	0	0	0	0	0	0	1.2	1.18	0	0	0	0	0	0
1/27/2025 14:37	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/27/2025 14:38	67002	STHI_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
1/27/2025 14:38	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/27/2025 14:42	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 14:47	52402	GRPA_T2	5	3	-2	0.78	0.4	-0.38	0	0	0	0	0	0	0	0
1/27/2025 14:47	52401	GRPA_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
1/27/2025 14:47	52403	GRPA_T2	28	12	-16	0.67	0.78	0.11	0	0	0	0	0	0	0	0
1/27/2025 14:47	65502	MOJO_T2	3	72	69	0.1	0.1	0	0	0	0	0	0	0	0	0
1/27/2025 14:47	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/27/2025 14:47	65503	MOJO_T2	0	1	1	0	0.1	0.1	-1.3	-1.35	1	1	0	900	900	0
1/27/2025 14:48	65503	MOJO_T2	0	1	1	0	0.1	0.1	-1.3	-1.35	1	1	0	900	900	0
1/27/2025 14:48	65502	MOJO_T2	3	72	69	0.1	0.1	0	0	0	0	0	0	0	0	0
1/27/2025 14:49	65502	MOJO_T2	3	72	69	0.1	0.1	0	-1.43	-1.34	1	1	0	900	900	0
1/27/2025 14:49	65503	MOJO_T2	0	1	1	0	0.1	0.1	-2.61	-2.7	2	2	0	1800	1800	0
1/27/2025 14:51	65502	MOJO_T2	3	72	69	0.1	0.1	0	-1.43	-1.34	1	1	0	900	900	0
1/27/2025 14:51	65503	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/27/2025 14:52	65502	MOJO_T2	3	72	69	0.1	0.1	0	-1.34	-1.23	1	1	0	900	900	0
1/27/2025 14:52	65503	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/27/2025 14:57	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 14:59	45801	HEGI_T1	0	0	0	0	0	0	-0.83	-0.86	1	1	0	900	900	0
1/27/2025 15:01	43202	MVIL_T2	46	29	-17	0.28	0.22	-0.06	-0.54	-0.53	0	0	0	0	0	0
1/27/2025 15:02	43202	MVIL_T2	46	29	-17	0.28	0.22	-0.06	-1.08	-1.06	0	0	0	0	0	0
1/27/2025 15:09	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 15:09	53101	WTWN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 15:13	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 15:19	26703	HEML_T1	0	0	0	0	0	0	-0.82	-0.82	1	1	0	600	600	0
1/27/2025 15:21	66903	SHIL_T2	0	0	0	0	0	0	-1.18	-1.17	0	0	0	0	0	0
1/27/2025 15:23	54506	ENOL_T2	0	0	0	0	0	0	0.33	0.35	1	1	0	600	600	0
1/27/2025 15:23	54505	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/27/2025 15:23	63501	HEID_TBK1-2	0	13	13	0	0.12	0.12	-0.23	-0.28	1	1	0	900	900	0
1/27/2025 15:24	66903	SHIL_T2	0	0	0	0	0	0	-1.17	-1.15	0	0	0	0	0	0
1/27/2025 15:24	63501	HEID_TBK1-2	0	13	13	0	0.12	0.12	-0.46	-0.55	2	2	0	1800	1800	0
1/27/2025 15:26	66903	SHIL_T2	0	0	0	0	0	0	-1.17	-1.15	0	0	0	0	0	0
1/27/2025 15:34	13901	SEID_T1	0	0	0	0	0	0	-0.38	-0.4	1	1	0	1200	1200	0
1/27/2025 15:34	13904	SEID_T1	5	10	5	0.46	0.97	0.51	0	0	0	0	0	0	0	0
1/27/2025 15:40	64305	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 15:44	13503	MCMI_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
1/27/2025 15:46	13503	MCMI_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
1/27/2025 15:49	40603	PIGR_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/27/2025 15:49	40602	PIGR_T1	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
1/27/2025 15:56	42504	ALTA_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
1/27/2025 15:56	15103	UPHA_T2	2	1	-1	0.45	0.5	0.05	-0.98	-0.93	0	0	0	0	0	0
1/27/2025 15:56	42503	ALTA_T2	0	0	0	0	0	0	-0.59	-0.58	0	0	0	0	0	0
1/27/2025 15:58	17805	GILB_T2	1	1	0	0.8	0.5	-0.3	0.05	0.05	0	0	0	0	0	0
1/27/2025 16:00	46506	LOHA_T1	3	3	0	3.63	3.8	0.17	0	0	0	0	0	0	0	0
1/27/2025 16:00	46501	LOHA_T1	1	1	0	0.7	0.7	0	-0.13	-0.11	1	1	0	1200	1200	0
1/27/2025 16:05	46501	LOHA_T1	1	1	0	0.7	0.7	0	-0.13	-0.11	1	1	0	1200	1200	0
1/27/2025 16:05	46506	LOHA_T1	3	3	0	3.63	3.8	0.17	0	0	0	0	0	0	0	0
1/27/2025 16:06	17802	GILB_T1	0	0	0	0	0	0	-0.08	0	0	0	0	0	0	0
1/27/2025 16:07	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
1/27/2025 16:07	44902	SCOT_T2	0	0	0	0	0	0	-0.98	-0.94	0	0	0	0	0	0
1/27/2025 16:07	67401	WAKE_T2	23	10	-13	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/27/2025 16:10	63501	HEID_TBK1-2	8	12	4	0.11	0.14	0.03	-0.49	-0.49	1	1	0	900	900	0
1/27/2025 16:47	66302	MCGO_T2	0	0	0	0	0	0	-3.26	-3.22	2	2	0	1200	1200	0
1/27/2025 16:47	66303	MCGO_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
1/27/2025 16:55	65005	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 16:55	65001	NEFF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/27/2025 16:55	65003	NEFF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 19:08	55002	NEWP_T1	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
1/27/2025 19:08	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.79	-0.83	1	1	0	600	600	0
1/27/2025 19:14	26704	HEML_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
1/27/2025 19:15	66903	SHIL_T2	0	0	0	0	0	0	-1.91	-1.91	0	0	0	0	0	0
1/27/2025 19:15	26701	HEML_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/27/2025 19:15	26703	HEML_T1	0	0	0	0	0	0	-0.71	-0.72	1	1	0	600	600	0
1/27/2025 19:16	17805	GILB_T2	0	1	1	0	0	0	-0.7	-0.73	0	0	0	0	0	0
1/27/2025 19:16	42601	TUSC_T1	153	160	7	1.18	1.31	0.13	-0.82	-0.8	3	3	0	2400	2400	0
1/27/2025 19:17	61701	ELIZ_T1	1	1	0	5.6	5.4	-0.2	-0.01	0.23	0	0	0	0	0	0
1/27/2025 19:18	53501	EVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/27/2025 19:18	13503	MCMI_T2	0	2	2	0	0	0	0.42	0.41	0	0	0	0	0	0
1/27/2025 19:18	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/27/2025 19:18	11901	ETEX_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
1/27/2025 19:18	29402	BELT_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
1/27/2025 19:19	54504	ENOL_T2	0	0	0	0	0	0	-1	-0.98	1	1	0	600	600	0
1/27/2025 19:19	40101	HUNT_T2	239	254	15	0.96	0.97	0.01	-0.7	-0.72	0	0	0	0	0	0
1/27/2025 19:20	46301	ROHR_T1	1	1	0	6.3	5.9	-0.4	0	0	0	0	0	0	0	0
1/27/2025 19:20	13905	SEID_T1	0	0	0	0	0	0	-0.9	-0.81	1	1	0	1200	1200	0
1/27/2025 19:20	43402	BENT_T1	0	1	1	0	0	0	-0.89	-0.85	1	1	0	900	900	0
1/27/2025 19:20	46002	BERW_T2	0	0	0	0	0	0	-1.69	-1.74	1	1	0	900	900	0
1/27/2025 19:20	13903	SEID_T1	5	0	-5	0.44	0	-0.44	0	0	0	0	0	0	0	0
1/27/2025 19:20	17802	GILB_T1	3	7	4	0.93	0.5	-0.43	-0.04	-0.05	0	0	0	0	0	0
1/27/2025 19:20	17805	GILB_T2	0	1	1	0	0	0	-0.7	-0.73	0	0	0	0	0	0
1/27/2025 19:20	46004	BERW_T2	3	8	5	1.5	1	-0.5	0	0	0	0	0	0	0	0
1/27/2025 19:20	46302	ROHR_T1	1	6	5	1	0.5	-0.5	0.28	0.29	0	0	0	0	0	0
1/27/2025 19:20	44901	SCOT_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
1/27/2025 19:20	10805	CHHI_T2	7	1	-6	1.99	8.3	6.31	-0.88	-0.87	1	1	0	600	600	0
1/27/2025 19:20	13904	SEID_T1	48	47	-1	1.14	1.31	0.17	0	0	0	0	0	0	0	0
1/27/2025 19:20	10801	CHHI_T1	0	0	0	0	0	0	-1.38	-1.33	2	2	0	1500	1500	0
1/27/2025 19:20	13901	SEID_T1	0	0	0	0	0	0	-0.87	-0.85	1	1	0	1200	1200	0
1/27/2025 19:21	67002	STHI_T2	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
1/27/2025 19:21	44902	SCOT_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
1/27/2025 19:21	46206	DANV_T2	12	19	7	0.64	0.46	-0.18	2.67	2.58	1	1	0	1200	1200	0
1/27/2025 19:21	46203	DANV_T2	10	9	-1	0.68	0.62	-0.06	0	0	0	0	0	0	0	0
1/27/2025 19:21	40201	BEGA_T2	4	3	-1	0.65	1.15	0.5	0	0	0	0	0	0	0	0
1/27/2025 19:21	13503	MCMI_T2	0	2	2	0	0	0	0.41	0.41	0	0	0	0	0	0
1/27/2025 19:21	15303	MOJO_T2	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
1/27/2025 19:21	46204	DANV_T2	11	70	59	0.28	0.33	0.05	0	0	0	0	0	0	0	0
1/27/2025 19:21	29402	BELT_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
1/27/2025 19:21	22002	BOHE_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
1/27/2025 19:22	66505	SMAN_T2	2	3	1	0.3	0.8	0.5	0	0	0	0	0	0	0	0
1/27/2025 19:22	15103	UPHA_T2	0	0	0	0	0	0	-0.86	-0.83	0	0	0	0	0	0
1/27/2025 19:22	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1	0	0	0	0	0	0
1/27/2025 19:22	20601	GRWO_T2	33	25	-8	0.54	0.62	0.08	0	0	0	0	0	0	0	0
1/27/2025 19:22	61506	EPET_T2	0	0	0	0	0	0	-1.14	-1.13	1	1	0	900	900	0
1/27/2025 19:22	20603	GRWO_T2	17	17	0	0.84	0.81	-0.03	-0.44	-0.45	1	1	0	900	900	0
1/27/2025 19:22	66504	SMAN_T2	0	0	0	0	0	0	-3.33	-3.51	2	2	0	2400	2400	0
1/27/2025 19:23	63803	HEMP_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
1/27/2025 19:23	63804	HEMP_T1	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
1/27/2025 19:23	55101	WERT_T1	0	0	0	0	0	0	-1.79	-1.8	2	2	0	1500	1500	0
1/27/2025 19:23	66903	SHIL_T2	0	0	0	0	0	0	-1.91	-1.92	0	0	0	0	0	0
1/27/2025 19:23	40101	HUNT_T2	239	254	15	0.96	0.97	0.01	-0.72	-0.69	0	0	0	0	0	0
1/27/2025 19:24	42701	AUGU_T1	8	3	-5	0.18	0.27	0.09	0	0	2	2	0	1800	1800	0
1/27/2025 19:24	63501	HEID_TBK1-2	1	23	22	0.1	0.23	0.13	-0.44	-0.49	1	1	0	900	900	0
1/27/2025 19:24	13903	SEID_T1	5	0	-5	0.44	0	-0.44	0	0	0	0	0	0	0	0
1/27/2025 19:24	46802	HEPB_T1	1	1	0	0.1	0.1	0	-1.2	-1.24	0	0	0	0	0	0
1/27/2025 19:24	46506	LOHA_T1	3	3	0	1.83	2.33	0.5	0	0	0	0	0	0	0	0
1/27/2025 19:24	43202	MVIL_T2	1	1	0	2.5	3	0.5	-0.6	-0.63	0	0	0	0	0	0
1/27/2025 19:24	16103	BING_T2	0	0	0	0	0	0	-3.05	-3.01	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/27/2025 19:24	13904	SEID_T1	48	47	-1	1.14	1.31	0.17	0.45	0.4	0	0	0	0	0	0
1/27/2025 19:24	16102	BING_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
1/27/2025 19:24	46501	LOHA_T1	3	5	2	0.87	0.7	-0.17	0.03	-0.03	1	1	0	1200	1200	0
1/27/2025 19:25	46203	DANV_T2	10	9	-1	0.68	0.62	-0.06	0	0	0	0	0	0	0	0
1/27/2025 19:25	46206	DANV_T2	12	19	7	0.64	0.46	-0.18	2.58	2.53	1	1	0	1200	1200	0
1/27/2025 19:25	60201	ATGL_T2	15	18	3	0.25	0.21	-0.04	0	0.03	0	0	0	0	0	0
1/27/2025 19:25	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 19:25	46004	BERW_T2	3	8	5	1.5	1	-0.5	-0.49	-0.5	0	0	0	0	0	0
1/27/2025 19:25	52004	LING_T2	2	2	0	4.2	4.15	-0.05	0.11	0.11	0	0	0	0	0	0
1/27/2025 19:25	67002	STHI_T2	0	0	0	0	0	0	1.74	1.74	0	0	0	0	0	0
1/27/2025 19:25	42601	TUSC_T1	153	160	7	1.18	1.31	0.13	-0.8	-0.84	3	3	0	2400	2400	0
1/27/2025 19:25	66504	SMAN_T2	0	0	0	0	0	0	-1.67	-1.75	1	1	0	1200	1200	0
1/27/2025 19:25	65502	MOJO_T2	0	0	0	0	0	0	-1.78	-1.84	1	1	0	900	900	0
1/27/2025 19:25	52502	PROG_T2	0	0	0	0	0	0	-0.42	-0.46	1	1	0	900	900	0
1/27/2025 19:25	53902	HALI_T2	1	1	0	4.7	5.1	0.4	-0.91	-0.85	0	0	0	0	0	0
1/27/2025 19:25	27901	BCRK_T1	1	1	0	6.5	7.1	0.6	0	0	0	0	0	0	0	0
1/27/2025 19:25	46204	DANV_T2	11	70	59	0.28	0.33	0.05	0	0	0	0	0	0	0	0
1/27/2025 19:25	54506	ENOL_T2	0	0	0	0	0	0	0.41	0.47	1	1	0	600	600	0
1/27/2025 19:25	53901	HALI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/27/2025 19:25	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 19:25	53903	HALI_T2	2	2	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
1/27/2025 19:25	52002	LING_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/27/2025 19:25	44301	BEAV_T2	0	2	2	0	0	0	-0.23	-0.47	1	1	0	600	600	0
1/27/2025 19:25	43304	WATS_T2	1	1	0	1	0	-1	-0.99	-1.03	1	1	0	600	600	0
1/27/2025 19:25	66505	SMAN_T2	2	3	1	0.3	0.8	0.5	0	0	0	0	0	0	0	0
1/27/2025 19:25	44502	HAMI_T2	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
1/27/2025 19:26	11404	FARM_T1	0	0	0	0	0	0	-0.6	-0.63	1	1	0	1200	1200	0
1/27/2025 19:26	54501	ENOL_T2	0	0	0	0	0	0	-0.49	-0.5	1	1	0	600	600	0
1/27/2025 19:26	63804	HEMP_T1	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
1/27/2025 19:26	17802	GILB_T1	3	7	4	0.93	0.5	-0.43	-0.05	-0.03	0	0	0	0	0	0
1/27/2025 19:26	63803	HEMP_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
1/27/2025 19:26	16102	BING_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
1/27/2025 19:26	11406	FARM_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
1/27/2025 19:26	11405	FARM_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
1/27/2025 19:26	41902	REED_T1	11	35	24	0.54	0.51	-0.03	0	0	0	0	0	0	0	0
1/27/2025 19:26	63501	HEID_TBK1-2	1	23	22	0.1	0.23	0.13	-0.44	-0.49	1	1	0	900	900	0
1/27/2025 19:26	67002	STHI_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
1/27/2025 19:26	11804	FRAN_T1	5	4	-1	0.3	0.5	0.2	0.71	0.66	0	0	0	0	0	0
1/27/2025 19:26	64301	LINC_T1	0	0	0	0	0	0	-0.34	-0.38	1	1	0	600	600	0
1/27/2025 19:26	42503	ALTA_T2	0	1	1	0	0.1	0.1	-0.53	-0.48	0	0	0	0	0	0
1/27/2025 19:27	65503	MOJO_T2	0	0	0	0	0	0	-0.96	-1.04	0	0	0	0	0	0
1/27/2025 19:27	66903	SHIL_T2	0	0	0	0	0	0	-1.91	-1.92	0	0	0	0	0	0
1/27/2025 19:27	59301	MCAL_T1	2	2	0	0.15	0.15	0	-1.22	-1.24	0	0	0	0	0	0
1/27/2025 19:27	64101	REFR_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
1/27/2025 19:27	63501	HEID_TBK1-2	1	23	22	0.1	0.23	0.13	-0.44	-0.49	1	1	0	900	900	0
1/27/2025 19:27	44801	EDAN_T2	2	2	0	0.6	1	0.4	-0.4	-0.44	0	0	0	0	0	0
1/27/2025 19:27	53903	HALI_T2	2	2	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
1/27/2025 19:27	53902	HALI_T2	1	1	0	4.7	5.1	0.4	-0.91	-0.85	0	0	0	0	0	0
1/27/2025 19:27	53901	HALI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/27/2025 19:27	45502	DERR_T2	72	74	2	0.68	0.53	-0.15	0	0	0	0	0	0	0	0
1/27/2025 19:27	52004	LING_T2	2	2	0	4.2	4.15	-0.05	0	0	0	0	0	0	0	0
1/27/2025 19:27	45801	HEGI_T1	0	0	0	0	0	0	-0.88	-0.91	1	1	0	900	900	0
1/27/2025 19:27	52002	LING_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/27/2025 19:27	40201	BEGA_T2	4	3	-1	0.65	1.15	0.5	0	0	0	0	0	0	0	0
1/27/2025 19:27	45501	DERR_T2	9	17	8	0.73	0.47	-0.26	1.74	1.7	6	6	0	5400	5400	0
1/27/2025 19:28	61304	EARL_T1	6	12	6	0.1	0.12	0.02	0	0	0	0	0	0	0	0
1/27/2025 19:28	66505	SMAN_T2	2	3	1	0.3	0.8	0.5	-0.33	-0.39	1	1	0	900	900	0
1/27/2025 19:28	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 19:28	53501	EVIL_T2	0	1	1	0	0.2	0.2	-1.21	-1.2	1	1	0	600	600	0
1/27/2025 19:28	53903	HALI_T2	2	2	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
1/27/2025 19:28	14502	SCHO_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
1/27/2025 19:28	63803	HEMP_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
1/27/2025 19:28	65205	PRIN_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
1/27/2025 19:28	45501	DERR_T2	9	17	8	0.73	0.47	-0.26	0.58	0.57	2	2	0	1800	1800	0
1/27/2025 19:28	45502	DERR_T2	72	74	2	0.68	0.53	-0.15	0	0	0	0	0	0	0	0
1/27/2025 19:28	61303	EARL_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
1/27/2025 19:28	63804	HEMP_T1	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
1/27/2025 19:28	46203	DANV_T2	10	9	-1	0.68	0.62	-0.06	-2.68	-2.66	0	0	0	0	0	0
1/27/2025 19:28	22602	KIMB_T1	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
1/27/2025 19:28	66203	SISP_T2	0	1	1	0	0	0	-0.78	-0.86	1	1	0	1200	1200	0
1/27/2025 19:28	65702	RVIL_T2	0	0	0	0	0	0	-1.49	-1.55	0	0	0	0	0	0
1/27/2025 19:28	48902	FOSP_T2	1	0	-1	0.1	0	-0.1	-0.21	-0.23	0	0	0	0	0	0
1/27/2025 19:28	53901	HALI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/27/2025 19:28	65202	PRIN_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/27/2025 19:28	46204	DANV_T2	11	70	59	0.28	0.33	0.05	0	0	0	0	0	0	0	0
1/27/2025 19:28	40101	HUNT_T2	239	254	15	0.96	0.97	0.01	-0.72	-0.69	0	0	0	0	0	0
1/27/2025 19:28	22601	KIMB_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 19:28	63501	HEID_TBK1-2	1	23	22	0.1	0.23	0.13	0	0	0	0	0	0	0	0
1/27/2025 19:28	44902	SCOT_T2	0	0	0	0	0	0	-1.86	-1.88	0	0	0	0	0	0
1/27/2025 19:28	53902	HALI_T2	1	1	0	4.7	5.1	0.4	-1.82	-1.7	0	0	0	0	0	0
1/27/2025 19:28	46206	DANV_T2	12	19	7	0.64	0.46	-0.18	0	0	0	0	0	0	0	0
1/27/2025 19:29	60201	ATGL_T2	15	18	3	0.25	0.21	-0.04	0	0.03	0	0	0	0	0	0
1/27/2025 19:29	53902	HALI_T2	1	1	0	4.7	5.1	0.4	-0.91	-0.85	0	0	0	0	0	0
1/27/2025 19:29	40603	PIGR_T1	5	1	-4	0.96	0	-0.96	0	0	0	0	0	0	0	0
1/27/2025 19:29	44502	HAMI_T2	1	0	-1	2.4	2.4	0	0	0	0	0	0	0	0	0
1/27/2025 19:29	40602	PIGR_T1	1	1	0	0.6	0	-0.6	-1.52	-1.57	1	1	0	600	600	0
1/27/2025 19:29	53901	HALI_T2	1	1	0	0.1	0.2	0.1	-1.29	-1.3	0	0	0	0	0	0
1/27/2025 19:29	64201	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/27/2025 19:29	52002	LING_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/27/2025 19:29	45501	DERR_T2	9	17	8	0.73	0.47	-0.26	0.58	0.57	2	2	0	1800	1800	0
1/27/2025 19:29	52001	LING_T1	0	0	0	0	0	0	-0.94	-0.96	0	0	0	0	0	0
1/27/2025 19:29	53903	HALI_T2	2	2	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
1/27/2025 19:29	53501	EVIL_T2	0	1	1	0	0.2	0.2	-1.21	-1.2	1	1	0	600	600	0
1/27/2025 19:29	42701	AUGU_T1	8	3	-5	0.18	0.27	0.09	0	0	2	2	0	1800	1800	0
1/27/2025 19:29	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 19:29	64202	KINZ_T1	0	3	3	0	0.25	0.25	0	0	0	0	0	0	0	0
1/27/2025 19:29	46801	HEPB_T2	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
1/27/2025 19:29	44505	HAMI_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
1/27/2025 19:29	64305	LINC_T1	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
1/27/2025 19:29	66302	MCGO_T2	0	0	0	0	0	0	-1.48	-1.53	1	1	0	600	600	0
1/27/2025 19:29	64204	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
1/27/2025 19:29	45502	DERR_T2	72	74	2	0.68	0.53	-0.15	0	0	0	0	0	0	0	0
1/27/2025 19:29	52004	LING_T2	2	2	0	4.2	4.15	-0.05	0	0	0	0	0	0	0	0
1/27/2025 19:30	45502	DERR_T2	73	70	-3	0.64	0.51	-0.13	0	0	0	0	0	0	0	0
1/27/2025 19:30	43402	BENT_T1	1	0	-1	0.1	0	-0.1	-0.85	-0.87	1	1	0	900	900	0
1/27/2025 19:30	55101	WERT_T1	0	0	0	0	0	0	-3.58	-3.61	4	4	0	3000	3000	0
1/27/2025 19:30	44905	SCOT_T1	2	2	0	1.9	0	-1.9	0	0	0	0	0	0	0	0
1/27/2025 19:30	65503	MOJO_T2	0	0	0	0	0	0	-0.48	-0.52	0	0	0	0	0	0
1/27/2025 19:30	43202	MVIL_T2	1	3	2	3	2.6	-0.4	-1.2	-1.26	0	0	0	0	0	0
1/27/2025 19:30	63501	HEID_TBK1-2	3	24	21	0.1	0.23	0.13	-0.44	-0.49	1	1	0	900	900	0
1/27/2025 19:30	64204	KINZ_T1	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
1/27/2025 19:30	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 19:30	65702	RVIL_T2	0	0	0	0	0	0	-1.49	-1.55	0	0	0	0	0	0
1/27/2025 19:30	63802	HEMP_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
1/27/2025 19:30	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/27/2025 19:30	52403	GRPA_T2	2	7	5	0.85	1.1	0.25	0	0	0	0	0	0	0	0
1/27/2025 19:30	52402	GRPA_T2	8	11	3	0.38	0.44	0.06	0	0	0	0	0	0	0	0
1/27/2025 19:30	63804	HEMP_T1	1	1	0	6.7	6.5	-0.2	0	0	0	0	0	0	0	0
1/27/2025 19:30	53101	WTWN_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/27/2025 19:30	45501	DERR_T2	14	18	4	0.69	0.57	-0.12	1.16	1.13	4	4	0	3600	3600	0
1/27/2025 19:30	52404	GRPA_T2	2	2	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
1/27/2025 19:30	53102	WTWN_T1	0	0	0	0	0	0	-1.06	-1.08	0	0	0	0	0	0
1/27/2025 19:30	64101	REFR_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
1/27/2025 19:30	13503	MCMI_T2	1	1	0	0.1	0	-0.1	0.41	0.41	0	0	0	0	0	0
1/27/2025 19:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 19:30	63601	LETO_T1	0	0	0	0	0	0	0.33	0.29	1	1	0	900	900	0
1/27/2025 19:30	64202	KINZ_T1	0	3	3	0	0.4	0.4	0.76	0.74	0	0	0	0	0	0
1/27/2025 19:30	55001	NEWP_T1	0	0	0	0	0	0	-1.66	-1.6	2	2	0	1200	1200	0
1/27/2025 19:30	46803	HEPB_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
1/27/2025 19:30	10801	OHHI_T1	0	0	0	0	0	0	-2.66	-2.76	4	4	0	3000	3000	0
1/27/2025 19:30	53501	EVIL_T2	0	1	1	0	0.3	0.3	-1.21	-1.2	1	1	0	600	600	0
1/27/2025 19:30	60201	ATGL_T2	8	28	20	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
1/27/2025 19:30	55002	NEWP_T1	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/27/2025 19:31	46501	LOHA_T1	3	4	1	0.93	0.7	-0.23	0	0	0	0	0	0	0	0
1/27/2025 19:31	64101	REFR_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
1/27/2025 19:31	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 19:31	44902	SCOT_T2	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
1/27/2025 19:31	44502	HAMI_T2	1	1	0	2.3	2.7	0.4	0	0	0	0	0	0	0	0
1/27/2025 19:31	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 19:31	66505	SMAN_T2	3	3	0	0.27	1.1	0.83	0	0	0	0	0	0	0	0
1/27/2025 19:31	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
1/27/2025 19:31	40201	BEGA_T2	3	2	-1	1.07	1.05	-0.02	0	0	0	0	0	0	0	0
1/27/2025 19:31	48902	FOSP_T2	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
1/27/2025 19:31	58402	MORO_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
1/27/2025 19:31	46506	LOHA_T1	3	4	1	2.17	1.83	-0.34	0	0	0	0	0	0	0	0
1/27/2025 19:31	63501	HEID_TBK1-2	3	24	21	0.1	0.23	0.13	-0.44	-0.49	1	1	0	900	900	0
1/27/2025 19:31	58401	MORO_T1	0	0	0	0	0	0	-0.99	-1.02	1	1	0	600	600	0
1/27/2025 19:31	44505	HAMI_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
1/27/2025 19:32	46204	DANV_T2	70	118	48	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
1/27/2025 19:32	41902	REED_T1	24	35	11	0.54	0.53	-0.01	0.23	0.3	1	1	0	900	900	0
1/27/2025 19:32	11405	FARM_T1	1	1	0	5.5	5	-0.5	-0.97	-0.96	1	1	0	1200	1200	0
1/27/2025 19:32	67401	WAKE_T2	0	0	0	0	0	0	-1.12	-1.1	0	0	0	0	0	0
1/27/2025 19:32	11406	FARM_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
1/27/2025 19:32	46004	BERW_T2	4	10	6	0.63	0.88	0.25	-0.49	-0.5	0	0	0	0	0	0
1/27/2025 19:32	53102	WTWN_T1	0	0	0	0	0	0	-1.06	-1.08	0	0	0	0	0	0
1/27/2025 19:32	67402	WAKE_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
1/27/2025 19:32	64101	REFR_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
1/27/2025 19:32	58402	MORO_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
1/27/2025 19:32	55001	NEWP_T1	0	0	0	0	0	0	-0.83	-0.8	1	1	0	600	600	0
1/27/2025 19:32	53101	WTWN_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/27/2025 19:32	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 19:32	58401	MORO_T1	0	0	0	0	0	0	-0.99	-1.02	1	1	0	600	600	0
1/27/2025 19:32	46206	DANV_T2	16	33	17	0.44	0.38	-0.06	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/27/2025 19:32	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-0.98	1	1	0	600	600	0
1/27/2025 19:32	66203	SISP_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
1/27/2025 19:32	55002	NEWP_T1	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/27/2025 19:32	46203	DANV_T2	9	6	-3	0.54	0.62	0.08	-2.68	-2.66	0	0	0	0	0	0
1/27/2025 19:33	67402	WAKE_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
1/27/2025 19:33	52404	GRPA_T2	2	2	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
1/27/2025 19:33	55101	WERT_T1	0	0	0	0	0	0	-1.79	-1.8	2	2	0	1500	1500	0
1/27/2025 19:33	51804	EBEN_T2	0	0	0	0	0	0	-1.4	-1.43	1	1	0	900	900	0
1/27/2025 19:33	52401	GRPA_T2	0	0	0	0	0	0	-0.7	-0.61	0	0	0	0	0	0
1/27/2025 19:33	51002	NHAR_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
1/27/2025 19:33	51003	NHAR_T1	1	4	3	7.4	3.9	-3.5	0	0	0	0	0	0	0	0
1/27/2025 19:33	61703	ELIZ_T1	0	0	0	0	0	0	-0.84	-0.83	1	1	0	900	900	0
1/27/2025 19:33	41902	REED_T1	24	35	11	0.54	0.53	-0.01	0.23	0.3	1	1	0	900	900	0
1/27/2025 19:33	53501	EVIL_T2	0	1	1	0	0.3	0.3	-1.21	-1.2	1	1	0	600	600	0
1/27/2025 19:33	51004	NHAR_T1	2	2	0	6.1	5.85	-0.25	0	0	0	0	0	0	0	0
1/27/2025 19:33	66504	SMAN_T2	0	0	0	0	0	0	-1.67	-1.75	1	1	0	1200	1200	0
1/27/2025 19:33	52402	GRPA_T2	8	11	3	0.38	0.44	0.06	0	0	0	0	0	0	0	0
1/27/2025 19:33	52403	GRPA_T2	2	7	5	0.85	1.1	0.25	0	0	0	0	0	0	0	0
1/27/2025 19:33	61701	ELIZ_T1	1	1	0	5.3	5.7	0.4	0	0	0	0	0	0	0	0
1/27/2025 19:33	66505	SMAN_T2	3	3	0	0.27	1.1	0.83	0	0	0	0	0	0	0	0
1/27/2025 19:34	58402	MORO_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
1/27/2025 19:34	58401	MORO_T1	0	0	0	0	0	0	-0.99	-1.02	1	1	0	600	600	0
1/27/2025 19:34	52404	GRPA_T2	2	2	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
1/27/2025 19:34	46206	DANV_T2	16	33	17	0.44	0.38	-0.06	2.58	2.53	1	1	0	1200	1200	0
1/27/2025 19:34	41902	REED_T1	24	35	11	0.54	0.53	-0.01	0.23	0.3	1	1	0	900	900	0
1/27/2025 19:34	52403	GRPA_T2	2	7	5	0.85	1.1	0.25	-0.31	-0.45	0	0	0	0	0	0
1/27/2025 19:34	52402	GRPA_T2	8	11	3	0.38	0.44	0.06	0	0	0	0	0	0	0	0
1/27/2025 19:34	61803	EELI_T2	0	0	0	0	0	0	0.75	0.76	0	0	0	0	0	0
1/27/2025 19:34	55101	WERT_T1	0	0	0	0	0	0	-1.79	-1.8	2	2	0	1500	1500	0
1/27/2025 19:34	66903	SHIL_T2	0	0	0	0	0	0	-1.91	-1.92	0	0	0	0	0	0
1/27/2025 19:34	46204	DANV_T2	70	118	48	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
1/27/2025 19:34	67002	STHI_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
1/27/2025 19:34	46203	DANV_T2	9	6	-3	0.54	0.62	0.08	0	0	0	0	0	0	0	0
1/27/2025 19:34	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 19:35	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/27/2025 19:35	43202	MVIL_T2	1	3	2	3	2.6	-0.4	-0.6	-0.63	0	0	0	0	0	0
1/27/2025 19:35	55101	WERT_T1	0	0	0	0	0	0	-1.79	-1.8	2	2	0	1500	1500	0
1/27/2025 19:35	46203	DANV_T2	9	6	-3	0.54	0.62	0.08	-2.68	-2.66	0	0	0	0	0	0
1/27/2025 19:35	64204	KINZ_T1	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
1/27/2025 19:35	61802	EELI_T2	0	0	0	0	0	0	-0.29	-0.24	0	0	0	0	0	0
1/27/2025 19:35	44301	BEAV_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/27/2025 19:35	64202	KINZ_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
1/27/2025 19:35	65502	MOJO_T2	0	0	0	0	0	0	-1.78	-1.84	1	1	0	900	900	0
1/27/2025 19:35	66302	MCGO_T2	0	0	0	0	0	0	-1.48	-1.53	1	1	0	600	600	0
1/27/2025 19:35	46204	DANV_T2	70	118	48	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
1/27/2025 19:35	63501	HEID_TBK1-2	3	24	21	0.1	0.23	0.13	-0.44	-0.49	1	1	0	900	900	0
1/27/2025 19:35	64101	REFR_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
1/27/2025 19:35	67401	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 19:35	46206	DANV_T2	16	33	17	0.44	0.38	-0.06	0	0	0	0	0	0	0	0
1/27/2025 19:35	64203	KINZ_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
1/27/2025 19:35	65702	RVIL_T2	0	0	0	0	0	0	-1.49	-1.55	0	0	0	0	0	0
1/27/2025 19:36	66505	SMAN_T2	3	3	0	0.27	1.1	0.83	0	0	0	0	0	0	0	0
1/27/2025 19:36	52403	GRPA_T2	2	7	5	0.85	1.1	0.25	-0.45	-0.39	0	0	0	0	0	0
1/27/2025 19:36	52402	GRPA_T2	8	11	3	0.38	0.44	0.06	0	0	0	0	0	0	0	0
1/27/2025 19:36	44901	SCOT_T2	0	0	0	0	0	0	-0.29	-0.28	0	0	0	0	0	0
1/27/2025 19:36	66503	SMAN_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
1/27/2025 19:36	64101	REFR_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
1/27/2025 19:36	55002	NEWP_T1	2	2	0	0.3	0.4	0.1	-0.2	-0.2	0	0	0	0	0	0
1/27/2025 19:36	52404	GRPA_T2	2	2	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
1/27/2025 19:36	64305	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 19:37	59201	THOM_T1	11	18	7	0.27	0.32	0.05	0	0	0	0	0	0	0	0
1/27/2025 19:37	52404	GRPA_T2	2	2	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
1/27/2025 19:37	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
1/27/2025 19:37	67402	WAKE_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
1/27/2025 19:37	53501	EVIL_T2	0	1	1	0	0.3	0.3	-1.2	-1.22	1	1	0	600	600	0
1/27/2025 19:37	59202	THOM_T1	21	42	21	0.22	0.23	0.01	0	0	0	0	0	0	0	0
1/27/2025 19:37	46501	LOHA_T1	3	4	1	0.93	0.7	-0.23	0	0	0	0	0	0	0	0
1/27/2025 19:37	52403	GRPA_T2	2	7	5	0.85	1.1	0.25	-0.45	-0.39	0	0	0	0	0	0
1/27/2025 19:37	52402	GRPA_T2	8	11	3	0.38	0.44	0.06	0	0	0	0	0	0	0	0
1/27/2025 19:37	46506	LOHA_T1	3	4	1	2.17	1.83	-0.34	0	0	0	0	0	0	0	0
1/27/2025 19:38	64101	REFR_T1	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
1/27/2025 19:38	53501	EVIL_T2	0	1	1	0	0.3	0.3	-1.2	-1.22	1	1	0	600	600	0
1/27/2025 19:38	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 19:39	44905	SCOT_T1	2	2	0	1.9	0	-1.9	0	0	0	0	0	0	0	0
1/27/2025 19:39	63305	GREE_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/27/2025 19:39	55105	WERT_T1	0	0	0	0	0	0	-0.36	-0.35	1	1	0	900	900	0
1/27/2025 19:39	63302	GREE_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
1/27/2025 19:39	41902	REED_T1	24	35	11	0.54	0.53	-0.01	0.3	0.21	1	1	0	900	900	0
1/27/2025 19:40	55101	WERT_T1	0	0	0	0	0	0	-1.8	-1.85	2	2	0	1500	1500	0
1/27/2025 19:40	65502	MOJO_T2	0	0	0	0	0	0	-1.84	-1.85	1	1	0	900	900	0
1/27/2025 19:40	52404	GRPA_T2	2	2	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
1/27/2025 19:40	52402	GRPA_T2	8	11	3	0.38	0.44	0.06	0	0	0	0	0	0	0	0
1/27/2025 19:40	61304	EARL_T1	10	12	2	0.12	0.1	-0.02	-0.86	-0.89	1	1	0	600	600	0
1/27/2025 19:40	52403	GRPA_T2	2	7	5	0.85	1.1	0.25	-0.45	-0.39	0	0	0	0	0	0
1/27/2025 19:41	61701	ELIZ_T1	1	1	0	5.3	5.7	0.4	0	0	0	0	0	0	0	0
1/27/2025 19:42	11405	FARM_T1	1	1	0	5.5	5	-0.5	0	0	0	0	0	0	0	0
1/27/2025 19:42	11406	FARM_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
1/27/2025 19:44	65702	RVIL_T2	0	0	0	0	0	0	-1.55	-1.54	0	0	0	0	0	0
1/27/2025 20:17	46204	DANV_T2	132	41	-91	0.97	0.31	-0.66	0	0	0	0	0	0	0	0
1/27/2025 20:17	46203	DANV_T2	6	11	5	0.42	0.63	0.21	-2.68	-2.71	0	0	0	0	0	0
1/27/2025 20:17	46206	DANV_T2	38	10	-28	0.41	0.23	-0.18	0	0	0	0	0	0	0	0
1/27/2025 21:38	64904	MILL_T1	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
1/28/2025 8:16	26704	HEML_T2	0	0	0	0	0	0	-0.38	-0.37	0	0	0	0	0	0
1/28/2025 8:46	11101	EGYP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 8:46	11103	EGYP_T1	0	0	0	0	0	0	-0.84	-0.82	0	0	0	0	0	0
1/28/2025 8:46	11104	EGYP_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/28/2025 8:50	64904	MILL_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
1/28/2025 8:50	64901	MILL_T1	9	1	-8	0.1	0.1	0	0	0	0	0	0	0	0	0
1/28/2025 8:53	67002	STHI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
1/28/2025 8:53	67001	STHI_T2	1	3	2	0.5	0.4	-0.1	0.13	0.14	0	0	0	0	0	0
1/28/2025 8:55	29401	BELT_T1	117	138	21	0.39	0.41	0.02	0	0	0	0	0	0	0	0
1/28/2025 8:55	67001	STHI_T2	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/28/2025 8:55	29402	BELT_T1	2	8	6	3.75	0.99	-2.76	0	0	0	0	0	0	0	0
1/28/2025 8:55	67002	STHI_T2	0	3	3	0	0.1	0.1	1.26	1.36	0	0	0	0	0	0
1/28/2025 8:56	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 8:56	41903	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 8:57	29402	BELT_T1	2	8	6	3.75	0.99	-2.76	0	0	0	0	0	0	0	0
1/28/2025 8:57	29401	BELT_T1	117	138	21	0.39	0.41	0.02	0	0	0	0	0	0	0	0
1/28/2025 8:57	61802	EELI_T2	6	0	-6	0.12	0	-0.12	-0.18	-0.25	0	0	0	0	0	0
1/28/2025 8:57	61801	EELI_T2	14	3	-11	0.34	0.6	0.26	0	0	0	0	0	0	0	0
1/28/2025 8:58	63305	GREE_T1	4	3	-1	0.15	0.2	0.05	-2.18	-2.19	1	1	0	900	900	0
1/28/2025 8:58	61802	EELI_T2	6	0	-6	0.12	0	-0.12	-0.18	-0.25	0	0	0	0	0	0
1/28/2025 8:58	61801	EELI_T2	14	3	-11	0.34	0.6	0.26	0	0	0	0	0	0	0	0
1/28/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
1/28/2025 9:00	53502	EVIL_T2	1	1	0	3.3	2.5	-0.8	0	0	0	0	0	0	0	0
1/28/2025 9:00	53501	EVIL_T2	1	1	0	1	1	0	-1.18	-1.18	2	2	0	1200	1200	0
1/28/2025 9:00	13901	SEID_T1	0	0	0	0	0	0	-0.76	-0.61	1	1	0	1200	1200	0
1/28/2025 9:00	13904	SEID_T1	19	13	-6	0.84	0	-0.84	0	0	0	0	0	0	0	0
1/28/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.1	0.04	0	0	0	0	0	0
1/28/2025 9:00	64305	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 9:00	40101	HUNT_T2	12	12	0	1.15	0.95	-0.2	-0.77	-0.78	0	0	0	0	0	0
1/28/2025 9:00	67502	WEWI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/28/2025 9:01	63305	GREE_T1	3	0	-3	0.2	0	-0.2	-2.18	-2.19	1	1	0	900	900	0
1/28/2025 9:03	57704	PAXT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 9:06	41902	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 9:06	41901	REED_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/28/2025 9:06	41903	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 9:08	53502	EVIL_T2	1	1	0	3.3	2.5	-0.8	0	0	0	0	0	0	0	0
1/28/2025 9:08	53501	EVIL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
1/28/2025 9:13	54502	ENOL_T2	1	1	0	0.2	0.5	0.3	-2.01	-2.01	1	1	0	600	600	0
1/28/2025 9:13	52402	GRPA_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
1/28/2025 9:13	52401	GRPA_T2	2	1	-1	0.25	1.1	0.85	-0.4	-0.43	0	0	0	0	0	0
1/28/2025 9:13	52403	GRPA_T2	1	2	1	2.3	1.8	-0.5	0	0	0	0	0	0	0	0
1/28/2025 9:13	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
1/28/2025 9:14	61301	EARL_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
1/28/2025 9:14	26704	HEML_T2	0	0	0	0	0	0	-0.38	-0.34	0	0	0	0	0	0
1/28/2025 9:14	61304	EARL_T1	0	12	12	0	0.12	0.12	-1.28	-1.22	2	2	0	1200	1200	0
1/28/2025 9:15	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
1/28/2025 9:15	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
1/28/2025 9:15	54503	ENOL_T2	0	7	7	0	0.17	0.17	-0.37	-0.39	1	1	0	600	600	0
1/28/2025 9:16	61304	EARL_T1	6	10	4	0.1	0.12	0.02	-0.64	-0.61	1	1	0	600	600	0
1/28/2025 9:19	57201	ROSS_T1	0	0	0	0	0	0	-0.56	-0.64	0	0	0	0	0	0
1/28/2025 9:20	57201	ROSS_T1	0	0	0	0	0	0	-0.56	-0.64	0	0	0	0	0	0
1/28/2025 9:21	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 9:25	44903	SCOT_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
1/28/2025 9:25	44905	SCOT_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/28/2025 9:30	52402	GRPA_T2	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
1/28/2025 9:30	65202	PRIN_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
1/28/2025 9:30	52401	GRPA_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
1/28/2025 9:30	52403	GRPA_T2	2	1	-1	1.35	2.5	1.15	-0.59	-0.54	0	0	0	0	0	0
1/28/2025 9:30	65205	PRIN_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/28/2025 9:33	66302	MCGO_T2	0	1	1	0	0.2	0.2	-1.39	-1.37	1	1	0	600	600	0
1/28/2025 9:33	66303	MCGO_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
1/28/2025 9:34	55002	NEWP_T1	3	4	1	0.6	0.6	0	-0.16	-0.16	0	0	0	0	0	0
1/28/2025 9:34	64204	KINZ_T1	4	17	13	0.53	0.34	-0.19	0	0	0	0	0	0	0	0
1/28/2025 9:34	64203	KINZ_T1	0	0	0	0	0	0	0.15	0.26	1	1	0	600	600	0
1/28/2025 9:34	64202	KINZ_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/28/2025 9:34	40101	HUNT_T2	12	14	2	0.97	0.65	-0.32	-0.72	-0.66	0	0	0	0	0	0
1/28/2025 9:34	64201	KINZ_T1	6	4	-2	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
1/28/2025 9:35	66303	MCGO_T2	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
1/28/2025 9:35	52001	LING_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
1/28/2025 9:35	66302	MCGO_T2	0	1	1	0	0.2	0.2	-1.39	-1.37	1	1	0	600	600	0
1/28/2025 9:35	57201	ROSS_T1	0	0	0	0	0	0	-0.64	-0.71	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/28/2025 9:37	55101	WERT_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 9:38	57201	ROSS_T1	0	0	0	0	0	0	-0.71	-0.71	0	0	0	0	0	0
1/28/2025 9:39	55101	WERT_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 9:39	55105	WERT_T1	0	0	0	0	0	0	-0.38	-0.41	1	1	0	900	900	0
1/28/2025 9:40	13704	SCHN_T2	0	6	6	0	0.25	0.25	0	0	0	0	0	0	0	0
1/28/2025 9:40	40201	BEGA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
1/28/2025 9:40	10801	CHHI_T1	0	0	0	0	0	0	-1.15	-0.52	2	1	-1	1500	900	-600
1/28/2025 9:40	13701	SCHN_T2	0	1	1	0	0.1	0.1	0.01	0	1	1	0	600	600	0
1/28/2025 9:42	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
1/28/2025 9:42	65207	PRIN_T4	3	3	0	2.1	2.23	0.13	0	0	0	0	0	0	0	0
1/28/2025 9:42	54503	ENOL_T2	0	7	7	0	0.17	0.17	0	0	0	0	0	0	0	0
1/28/2025 9:42	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
1/28/2025 9:42	54504	ENOL_T2	0	0	0	0	0	0	-1.03	-1.04	1	1	0	600	600	0
1/28/2025 9:42	65206	PRIN_T4	0	2	2	0	1.4	1.4	0	0	0	0	0	0	0	0
1/28/2025 9:42	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
1/28/2025 9:43	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
1/28/2025 9:43	54503	ENOL_T2	0	7	7	0	0.17	0.17	0	0	0	0	0	0	0	0
1/28/2025 9:43	54504	ENOL_T2	0	0	0	0	0	0	-2.06	-2.08	2	2	0	1200	1200	0
1/28/2025 9:43	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
1/28/2025 9:44	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	-7.43	-7.26	6	6	0	3600	3600	0
1/28/2025 9:44	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
1/28/2025 9:44	14204	EALL_T2	0	0	0	0	0	0	-1.06	-1.07	0	0	0	0	0	0
1/28/2025 9:44	54503	ENOL_T2	0	7	7	0	0.17	0.17	0	0	0	0	0	0	0	0
1/28/2025 9:45	52402	GRPA_T2	1	2	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
1/28/2025 9:45	63501	HEID_TBK1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 9:45	52401	GRPA_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
1/28/2025 9:45	54503	ENOL_T2	7	6	-1	0.17	0.17	0	-0.36	-0.36	1	1	0	600	600	0
1/28/2025 9:45	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
1/28/2025 9:45	54502	ENOL_T2	1	1	0	0.8	0.7	-0.1	-2.01	-2.07	1	1	0	600	600	0
1/28/2025 9:45	52403	GRPA_T2	1	1	0	2.5	2.1	-0.4	0	0	0	0	0	0	0	0
1/28/2025 9:46	54502	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
1/28/2025 9:46	54503	ENOL_T2	7	6	-1	0.17	0.17	0	0	0	0	0	0	0	0	0
1/28/2025 9:46	54505	ENOL_T2	1	1	0	1	1.1	0.1	-1.24	-1.21	1	1	0	600	600	0
1/28/2025 9:47	54503	ENOL_T2	7	6	-1	0.17	0.17	0	0	0	0	0	0	0	0	0
1/28/2025 9:47	51204	MTON_T2	0	0	0	0	0	0	-0.38	-0.4	1	1	0	600	600	0
1/28/2025 9:47	54502	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
1/28/2025 9:47	46803	HEPB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 9:47	54505	ENOL_T2	1	1	0	1	1.1	0.1	-2.48	-2.42	2	2	0	1200	1200	0
1/28/2025 9:48	52401	GRPA_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
1/28/2025 9:48	52403	GRPA_T2	1	1	0	2.5	2.1	-0.4	-0.54	-0.5	0	0	0	0	0	0
1/28/2025 9:48	52402	GRPA_T2	1	2	1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
1/28/2025 9:48	63601	LETO_T1	4	4	0	0.68	0.65	-0.03	1.34	1.26	0	0	0	0	0	0
1/28/2025 9:49	58102	NEKI_T1	1	1	0	1.8	1.9	0.1	-0.87	-0.85	1	1	0	1200	1200	0
1/28/2025 9:50	27101	GFLD_T2	0	1	1	0	0	0	0.94	0.94	0	0	0	0	0	0
1/28/2025 9:51	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/28/2025 9:51	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 9:52	14603	SWHI_T1	1	1	0	0.3	0.1	-0.2	-0.96	-0.93	1	1	0	600	600	0
1/28/2025 9:53	42701	AUGU_T1	1	1	0	0.4	0.5	0.1	0	0	2	2	0	1800	1800	0
1/28/2025 9:54	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 9:54	14603	SWHI_T1	1	1	0	0.3	0.1	-0.2	-1.92	-1.86	2	2	0	1200	1200	0
1/28/2025 9:55	63601	LETO_T1	4	4	0	0.68	0.65	-0.03	1.26	1.37	0	0	0	0	0	0
1/28/2025 9:56	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 9:56	64305	LINC_T1	1	1	0	0.1	0.3	0.2	-0.55	-0.45	0	0	0	0	0	0
1/28/2025 9:56	14603	SWHI_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
1/28/2025 9:59	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 10:00	20603	GRWO_T2	8	5	-3	0.41	0.2	-0.21	-0.54	-0.54	1	1	0	900	900	0
1/28/2025 10:00	61305	EARL_T1	0	0	0	0	0	0	0.48	0.36	2	2	0	1500	1500	0
1/28/2025 10:00	20601	GRWO_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
1/28/2025 10:03	20603	GRWO_T2	8	5	-3	0.41	0.2	-0.21	-0.54	-0.54	1	1	0	900	900	0
1/28/2025 10:03	20601	GRWO_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
1/28/2025 10:03	51202	MTON_T2	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
1/28/2025 10:05	65702	RVIL_T2	0	0	0	0	0	0	-1.38	-1.32	0	0	0	0	0	0
1/28/2025 10:07	65702	RVIL_T2	0	0	0	0	0	0	-2.65	-2.92	0	0	0	0	0	0
1/28/2025 10:07	54601	SUMM_T2	3	3	0	0.43	0.23	-0.2	-1.77	-1.74	2	2	0	2100	2100	0
1/28/2025 10:20	27901	BCRK_T1	3	3	0	2.37	7.4	5.03	0	0	0	0	0	0	0	0
1/28/2025 10:21	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 10:21	40601	PIGR_T1	17	29	12	0.15	0.15	0	0.06	0.06	0	0	0	0	0	0
1/28/2025 10:23	44901	SCOT_T2	0	0	0	0	0	0	-0.07	0.06	0	0	0	0	0	0
1/28/2025 10:23	44902	SCOT_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/28/2025 10:23	64301	LINC_T1	0	0	0	0	0	0	0.12	0.13	1	1	0	600	600	0
1/28/2025 10:24	44902	SCOT_T2	0	1	1	0	0.1	0.1	-0.87	-0.89	0	0	0	0	0	0
1/28/2025 10:24	64305	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 10:26	46506	LOHA_T1	3	3	0	2.53	2.47	-0.06	0	0	0	0	0	0	0	0
1/28/2025 10:26	55101	WERT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/28/2025 10:26	55105	WERT_T1	0	0	0	0	0	0	-0.39	-0.46	1	1	0	900	900	0
1/28/2025 10:26	46501	LOHA_T1	2	1	-1	0.95	1.2	0.25	0	0	0	0	0	0	0	0
1/28/2025 10:26	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
1/28/2025 10:30	20601	GRWO_T2	0	1	1	0	2.4	2.4	0.33	0.32	0	0	0	0	0	0
1/28/2025 10:30	20603	GRWO_T2	4	2	-2	0.2	1	0.8	0	0	0	0	0	0	0	0
1/28/2025 10:33	20601	GRWO_T2	0	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0
1/28/2025 10:33	20603	GRWO_T2	4	2	-2	0.2	1	0.8	0	0	0	0	0	0	0	0
1/28/2025 10:34	17805	GILB_T2	1	1	0	0.4	0.2	-0.2	0.15	0.16	0	0	0	0	0	0
1/28/2025 10:34	17804	GILB_T2	1	2	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
1/28/2025 10:35	17805	GILB_T2	1	1	0	0.4	0.2	-0.2	0.15	0.16	0	0	0	0	0	0
1/28/2025 10:35	65702	RVIL_T2	0	0	0	0	0	0	-2.92	-3.04	0	0	0	0	0	0
1/28/2025 10:35	17804	GILB_T2	1	2	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
1/28/2025 10:36	14601	SWHI_T1	0	0	0	0	0	0	-1.56	-1.5	0	0	0	0	0	0
1/28/2025 10:36	65702	RVIL_T2	0	0	0	0	0	0	-1.46	-1.52	0	0	0	0	0	0
1/28/2025 10:36	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 10:36	13704	SCHN_T2	6	4	-2	0.25	0.13	-0.12	-0.78	-0.79	0	0	0	0	0	0
1/28/2025 10:36	44901	SCOT_T2	0	0	0	0	0	0	-0.07	0.06	0	0	0	0	0	0
1/28/2025 10:36	44902	SCOT_T2	0	1	1	0	0.1	0.1	-0.87	-0.89	0	0	0	0	0	0
1/28/2025 10:36	13701	SCHN_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/28/2025 10:37	65702	RVIL_T2	0	0	0	0	0	0	-1.52	-1.36	0	0	0	0	0	0
1/28/2025 10:37	44901	SCOT_T2	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
1/28/2025 10:37	44902	SCOT_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/28/2025 10:40	10801	CHHI_T1	0	0	0	0	0	0	-0.62	-0.54	1	1	0	900	900	0
1/28/2025 10:40	40201	BEGA_T2	3	3	0	0.37	0.53	0.16	0	0	0	0	0	0	0	0
1/28/2025 10:40	43301	WATS_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/28/2025 10:40	43304	WATS_T2	0	2	2	0	0	0	0.33	0.32	0	0	0	0	0	0
1/28/2025 10:40	29402	BELT_T1	1	47	46	6	0.42	-5.58	0	0	0	0	0	0	0	0
1/28/2025 10:40	29401	BELT_T1	24	73	49	0.16	0.24	0.08	0	0	0	0	0	0	0	0
1/28/2025 10:40	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 10:40	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 10:41	43301	WATS_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/28/2025 10:41	43304	WATS_T2	0	2	2	0	0	0	0.33	0.32	0	0	0	0	0	0
1/28/2025 10:41	40201	BEGA_T2	3	3	0	0.37	0.53	0.16	0	0	0	0	0	0	0	0
1/28/2025 10:42	40201	BEGA_T2	3	3	0	0.37	0.53	0.16	0	0	0	0	0	0	0	0
1/28/2025 10:42	60201	ATGL_T2	19	25	6	0.27	0.27	0	1.16	1.17	0	0	0	0	0	0
1/28/2025 10:42	43304	WATS_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 10:42	16102	BING_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/28/2025 10:42	43301	WATS_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/28/2025 10:42	47203	FAXO_T2	1	1	0	1.7	1.8	0.1	-1.74	-1.73	1	1	0	1200	1200	0
1/28/2025 10:44	60201	ATGL_T2	19	25	6	0.27	0.27	0	1.16	1.17	0	0	0	0	0	0
1/28/2025 10:46	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.01	0	0	0	0	0	0
1/28/2025 10:49	24201	PROV_T3	3	3	0	5.7	5.8	0.1	-1.44	-1.41	1	1	0	1200	1200	0
1/28/2025 10:49	24204	PROV_T3	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
1/28/2025 10:52	44902	SCOT_T2	1	1	0	0.1	0.2	0.1	-0.9	-0.9	0	0	0	0	0	0
1/28/2025 10:52	40601	PIGR_T1	29	28	-1	0.15	0.21	0.06	0	0	0	0	0	0	0	0
1/28/2025 10:52	55002	NEWP_T1	4	2	-2	0.3	0.3	0	-0.2	-0.18	0	0	0	0	0	0
1/28/2025 10:52	44901	SCOT_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/28/2025 10:52	40602	PIGR_T1	0	0	0	0	0	0	0.44	0.38	0	0	0	0	0	0
1/28/2025 10:53	40601	PIGR_T1	29	28	-1	0.15	0.21	0.06	0	0	0	0	0	0	0	0
1/28/2025 10:54	45501	DERR_T2	0	0	0	0	0	0	0.31	0.38	2	2	0	1800	1800	0
1/28/2025 10:55	24204	PROV_T3	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
1/28/2025 10:55	29401	BELT_T1	66	53	-13	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
1/28/2025 10:55	29402	BELT_T1	3	47	44	2.53	0.42	-2.11	0	0	0	0	0	0	0	0
1/28/2025 10:55	24201	PROV_T3	3	3	0	5.7	5.8	0.1	-1.41	-1.41	1	1	0	1200	1200	0
1/28/2025 10:56	60101	COCA_T1	1	0	-1	0.1	0	-0.1	0.43	0.41	0	0	0	0	0	0
1/28/2025 10:56	29402	BELT_T1	3	47	44	2.53	0.42	-2.11	0	0	0	0	0	0	0	0
1/28/2025 10:56	29401	BELT_T1	66	53	-13	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
1/28/2025 10:56	45501	DERR_T2	0	0	0	0	0	0	0.31	0.38	2	2	0	1800	1800	0
1/28/2025 10:57	60101	COCA_T1	1	0	-1	0.1	0	-0.1	0.86	0.83	0	0	0	0	0	0
1/28/2025 10:58	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/28/2025 10:58	42501	ALTA_T2	0	0	0	0	0	0	0.07	0	1	1	0	600	600	0
1/28/2025 10:59	60101	COCA_T1	1	0	-1	0.1	0	-0.1	0.43	0.41	0	0	0	0	0	0
1/28/2025 11:00	40101	HUNT_T2	12	61	49	0.51	0.66	0.15	-0.66	-0.67	0	0	0	0	0	0
1/28/2025 11:01	52006	LING_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
1/28/2025 11:01	40101	HUNT_T2	12	61	49	0.51	0.66	0.15	-0.66	-0.67	0	0	0	0	0	0
1/28/2025 11:01	52004	LING_T2	2	2	0	5.7	5.75	0.05	0.31	0.29	0	0	0	0	0	0
1/28/2025 11:02	64503	LAVI_T1	0	0	0	0	0	0	-1.62	-1.58	2	2	0	2100	2100	0
1/28/2025 11:02	58401	MORO_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	600	600	0
1/28/2025 11:03	58401	MORO_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	600	600	0
1/28/2025 11:03	64503	LAVI_T1	0	0	0	0	0	0	-1.62	-1.58	2	2	0	2100	2100	0
1/28/2025 11:05	64503	LAVI_T1	0	0	0	0	0	0	-1.62	-1.58	2	2	0	2100	2100	0
1/28/2025 11:06	17802	GILB_T1	2	3	1	0.6	0.47	-0.13	0.3	0.3	0	0	0	0	0	0
1/28/2025 11:11	45302	WBER_T2	0	0	0	0	0	0	0.68	0.8	0	0	0	0	0	0
1/28/2025 11:11	45303	WBER_T2	1	1	0	9.2	9.1	-0.1	0	0	0	0	0	0	0	0
1/28/2025 11:11	54502	ENOL_T2	1	1	0	0.5	0.1	-0.4	-2.02	-2.01	1	1	0	600	600	0
1/28/2025 11:11	54505	ENOL_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
1/28/2025 11:12	40201	BEGA_T2	3	4	1	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
1/28/2025 11:16	54502	ENOL_T2	1	1	0	0.1	0.2	0.1	-2.02	-2.01	1	1	0	600	600	0
1/28/2025 11:16	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
1/28/2025 11:16	64503	LAVI_T1	0	0	0	0	0	0	-3.17	-3.58	4	4	0	4200	4200	0
1/28/2025 11:17	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
1/28/2025 11:17	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-1.04	1	1	0	600	600	0
1/28/2025 11:17	54502	ENOL_T2	1	1	0	0.1	0.2	0.1	-2.02	-2.01	1	1	0	600	600	0
1/28/2025 11:18	64503	LAVI_T1	0	0	0	0	0	0	-3.17	-3.58	4	4	0	4200	4200	0
1/28/2025 11:23	42903	MIDD_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
1/28/2025 11:23	57205	ROSS_T1	0	0	0	0	0	0	-0.84	10	1	1	0	900	900	0
1/28/2025 11:23	42902	MIDD_T2	0	0	0	0	0	0	0.04	10	0	0	0	0	0	0
1/28/2025 11:24	64904	MILL_T1	0	0	0	0	0	0	0.63	10	0	0	0	0	0	0
1/28/2025 11:24	42902	MIDD_T2	0	0	0	0	0	0	0.04	10	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/28/2025 11:24	42903	MIDD_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
1/28/2025 11:26	42903	MIDD_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
1/28/2025 11:26	42902	MIDD_T2	0	0	0	0	0	0	0.04	10	0	0	0	0	0	0
1/28/2025 11:27	42902	MIDD_T2	0	0	0	0	0	0	0.04	10	0	0	0	0	0	0
1/28/2025 11:27	42903	MIDD_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
1/28/2025 11:33	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
1/28/2025 11:33	54501	ENOL_T2	0	0	0	0	0	0	0.15	10	0	0	0	0	0	0
1/28/2025 11:33	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/28/2025 11:33	58202	NEWV_T1	0	0	0	0	0	0	-0.08	10	0	0	0	0	0	0
1/28/2025 11:34	13302	ORVI_T2	23	36	13	0.2	0.26	0.06	-0.11	10	0	0	0	0	0	0
1/28/2025 11:38	44904	SCOT_T1	0	0	0	0	0	0	10	0.86	0	0	0	0	0	0
1/28/2025 11:38	44905	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 11:38	58202	NEWV_T1	0	0	0	0	0	0	10	-0.03	0	0	0	0	0	0
1/28/2025 11:40	10105	ALLE_T3	9	8	-1	1	0	-1	0	0	0	0	0	0	0	0
1/28/2025 11:40	10103	ALLE_T3	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/28/2025 11:40	10101	ALLE_T3	35	28	-7	1.36	1.08	-0.28	0	0	0	0	0	0	0	0
1/28/2025 11:40	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 11:40	45602	WOOL_T1	0	0	0	0	0	0	10	0.72	0	0	0	0	0	0
1/28/2025 11:42	29401	BELT_T1	41	87	46	0.18	0.25	0.07	0	0	0	0	0	0	0	0
1/28/2025 11:42	10206	ALLE_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
1/28/2025 11:42	10102	ALLE_T2	22	25	3	2.57	2.16	-0.41	0	0	0	0	0	0	0	0
1/28/2025 11:42	14204	EALL_T2	0	0	0	0	0	0	10	-0.98	0	0	0	0	0	0
1/28/2025 11:42	29402	BELT_T1	81	113	32	0.54	0.57	0.03	0	0	0	0	0	0	0	0
1/28/2025 11:42	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 11:43	41202	KENM_T2	1	1	0	0.4	0.8	0.4	10	-0.5	0	0	0	0	0	0
1/28/2025 11:44	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 11:44	10105	ALLE_T3	9	8	-1	1	0	-1	0	0	0	0	0	0	0	0
1/28/2025 11:44	10103	ALLE_T3	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/28/2025 11:44	10101	ALLE_T3	35	28	-7	1.36	1.08	-0.28	0	0	0	0	0	0	0	0
1/28/2025 11:44	10206	ALLE_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
1/28/2025 11:44	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 11:44	10102	ALLE_T2	22	25	3	2.57	2.16	-0.41	0	0	0	0	0	0	0	0
1/28/2025 11:45	61502	EPET_T1	0	0	0	0	0	0	10	-1.11	0	0	0	0	0	0
1/28/2025 11:47	40201	BEGA_T2	5	5	0	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
1/28/2025 11:48	15601	NSTR_T2	2	3	1	0.15	0.37	0.22	0	0	0	0	0	0	0	0
1/28/2025 11:48	15603	NSTR_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
1/28/2025 11:49	15601	NSTR_T2	2	3	1	0.15	0.37	0.22	0	0	0	0	0	0	0	0
1/28/2025 11:49	15603	NSTR_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
1/28/2025 11:50	15603	NSTR_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
1/28/2025 11:50	57205	ROSS_T1	0	0	0	0	0	0	10	0.22	1	0	-1	900	0	-900
1/28/2025 11:50	44901	SCOT_T2	113	115	2	0.32	0.34	0.02	10	0.18	0	0	0	0	0	0
1/28/2025 11:50	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 11:50	15601	NSTR_T2	2	3	1	0.15	0.37	0.22	0	0	0	0	0	0	0	0
1/28/2025 11:50	13901	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/28/2025 11:50	13904	SEID_T1	8	0	-8	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/28/2025 11:50	44902	SCOT_T2	38	68	30	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
1/28/2025 11:51	15601	NSTR_T2	2	3	1	0.15	0.37	0.22	0	0	0	0	0	0	0	0
1/28/2025 11:51	15603	NSTR_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
1/28/2025 11:52	57205	ROSS_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
1/28/2025 11:54	46004	BERW_T2	0	1	1	0	0.3	0.3	-0.55	-0.52	0	0	0	0	0	0
1/28/2025 11:55	40301	TAMA_T3	3	4	1	0.9	0.77	-0.13	1.32	1.41	1	1	0	1200	1200	0
1/28/2025 11:55	40302	TAMA_T3	8	10	2	0.53	0.59	0.06	0	0	0	0	0	0	0	0
1/28/2025 11:58	40801	EXCH_T2	0	0	0	0	0	0	-0.51	-0.49	1	1	0	1200	1200	0
1/28/2025 12:00	11303	EMMA_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
1/28/2025 12:00	11301	EMMA_T1	0	0	0	0	0	0	-1.44	-1.48	0	0	0	0	0	0
1/28/2025 12:01	17804	GILB_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/28/2025 12:01	17805	GILB_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
1/28/2025 12:04	66504	SMAN_T2	0	2	2	0	0.5	0.5	-0.38	-0.45	0	0	0	0	0	0
1/28/2025 12:04	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/28/2025 12:04	66502	SMAN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
1/28/2025 12:04	61306	EARL_T1	0	1	1	0	0.1	0.1	0.05	0.07	0	0	0	0	0	0
1/28/2025 12:04	61304	EARL_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
1/28/2025 12:05	66504	SMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
1/28/2025 12:05	17805	GILB_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
1/28/2025 12:05	17804	GILB_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/28/2025 12:05	66502	SMAN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
1/28/2025 12:06	44901	SCOT_T2	90	150	60	0.29	0.4	0.11	0.18	-0.08	0	0	0	0	0	0
1/28/2025 12:06	64101	REFR_T1	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
1/28/2025 12:06	66504	SMAN_T2	0	2	2	0	0.5	0.5	-0.38	-0.45	0	0	0	0	0	0
1/28/2025 12:06	66502	SMAN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
1/28/2025 12:06	44902	SCOT_T2	49	295	246	0.21	0.24	0.03	0	0	0	0	0	0	0	0
1/28/2025 12:08	66502	SMAN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
1/28/2025 12:08	66504	SMAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
1/28/2025 12:08	15404	WALL_T1	0	0	0	0	0	0	-1.6	-1.56	0	0	0	0	0	0
1/28/2025 12:08	66503	SMAN_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
1/28/2025 12:12	14801	TREI_T2	0	4	4	0	0.5	0.5	0.55	0.54	0	0	0	0	0	0
1/28/2025 12:14	14204	EALL_T2	0	2	2	0	0.15	0.15	-2.11	-2.06	0	0	0	0	0	0
1/28/2025 12:15	61002	DONV_T2	0	0	0	0	0	0	-0.76	-0.79	1	1	0	600	600	0
1/28/2025 12:16	23203	HIRU_T2	14	81	67	0.23	0.27	0.04	0	0	0	0	0	0	0	0
1/28/2025 12:16	23201	HIRU_T2	98	206	108	0.34	0.42	0.08	0	0	0	0	0	0	0	0
1/28/2025 12:16	23202	HIRU_T2	30	167	137	0.26	0.27	0.01	0	0	0	0	0	0	0	0
1/28/2025 12:16	14204	EALL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/28/2025 12:17	46102	MACJ_T1	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
1/28/2025 12:19	65001	NEFF_T2	144	191	47	0.14	0.18	0.04	-0.6	-0.61	1	1	0	1200	1200	0
1/28/2025 12:19	65005	NEFF_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
1/28/2025 12:19	65004	NEFF_T2	0	1	1	0	0.2	0.2	-0.46	-0.48	0	0	0	0	0	0
1/28/2025 12:19	65003	NEFF_T2	3	3	0	0.23	0.43	0.2	0	0	0	0	0	0	0	0
1/28/2025 12:20	61302	EARL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/28/2025 12:20	65005	NEFF_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
1/28/2025 12:20	61304	EARL_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
1/28/2025 12:20	65003	NEFF_T2	3	3	0	0.23	0.43	0.2	0	0	0	0	0	0	0	0
1/28/2025 12:20	65001	NEFF_T2	144	191	47	0.14	0.18	0.04	0	0	0	0	0	0	0	0
1/28/2025 12:20	61301	EARL_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
1/28/2025 12:20	44201	POIN_T1	39	70	31	0.22	0.26	0.04	-4.23	-4.07	4	4	0	4200	4200	0
1/28/2025 12:20	61306	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/28/2025 12:20	65004	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/28/2025 12:21	61306	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/28/2025 12:21	61301	EARL_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
1/28/2025 12:21	61302	EARL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/28/2025 12:21	61304	EARL_T1	2	1	-1	0.25	0.1	-0.15	-0.14	-0.19	0	0	0	0	0	0
1/28/2025 12:22	61302	EARL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/28/2025 12:22	61306	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/28/2025 12:22	61304	EARL_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
1/28/2025 12:22	61301	EARL_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
1/28/2025 12:24	61304	EARL_T1	2	1	-1	0.25	0.1	-0.15	-0.19	-0.06	0	0	0	0	0	0
1/28/2025 12:24	61302	EARL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/28/2025 12:24	61306	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/28/2025 12:25	44801	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 12:26	42701	AUGU_T1	1	1	0	1.1	0.1	-1	0	0	2	2	0	1800	1800	0
1/28/2025 12:27	40701	FFLD_T1	28	35	7	0.29	0.38	0.09	0	0	0	0	0	0	0	0
1/28/2025 12:27	40702	FFLD_T1	3	3	0	0.27	0.33	0.06	0	0	0	0	0	0	0	0
1/28/2025 12:27	40703	FFLD_T1	2	4	2	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
1/28/2025 12:29	24703	FLND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/28/2025 12:29	24702	FLND_T2	0	0	0	0	0	0	0.22	0.07	1	1	0	1200	1200	0
1/28/2025 12:29	24701	FLND_T2	9	15	6	0.51	0	-0.51	0	0	0	0	0	0	0	0
1/28/2025 12:30	54505	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
1/28/2025 12:30	54502	ENOL_T2	1	1	0	0.9	1	0.1	-2.02	-2.03	1	1	0	600	600	0
1/28/2025 12:30	41801	GOCI_T2	2	40	38	0.2	0.24	0.04	0	0	0	0	0	0	0	0
1/28/2025 12:30	47203	FAXO_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
1/28/2025 12:30	47202	FAXO_T2	0	0	0	0	0	0	-2.34	-2.32	0	0	0	0	0	0
1/28/2025 12:30	40703	FFLD_T1	4	3	-1	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
1/28/2025 12:30	40701	FFLD_T1	30	32	2	0.36	0.39	0.03	0	0	0	0	0	0	0	0
1/28/2025 12:30	54503	ENOL_T2	8	4	-4	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
1/28/2025 12:30	40702	FFLD_T1	3	2	-1	0.33	0.35	0.02	-0.61	-0.52	0	0	0	0	0	0
1/28/2025 12:31	41301	FISH_T1	2	6	4	1.7	1.1	-0.6	-0.5	-0.5	0	0	0	0	0	0
1/28/2025 12:31	54505	ENOL_T2	1	1	0	1.1	1.1	0	-1.2	-1.22	1	1	0	600	600	0
1/28/2025 12:31	54501	ENOL_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
1/28/2025 12:31	54503	ENOL_T2	8	4	-4	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
1/28/2025 12:31	41801	GOCI_T2	2	40	38	0.2	0.24	0.04	0	0	0	0	0	0	0	0
1/28/2025 12:31	54502	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
1/28/2025 12:32	41301	FISH_T1	2	6	4	1.7	1.1	-0.6	0	0	0	0	0	0	0	0
1/28/2025 12:32	54502	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
1/28/2025 12:32	54506	ENOL_T2	0	0	0	0	0	0	0.34	0.36	1	1	0	600	600	0
1/28/2025 12:32	54503	ENOL_T2	8	4	-4	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
1/28/2025 12:32	54505	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
1/28/2025 12:33	41801	GOCI_T2	2	40	38	0.2	0.24	0.04	0	0	0	0	0	0	0	0
1/28/2025 12:36	17802	GILB_T1	3	3	0	0.67	0.5	-0.17	0.23	0.21	0	0	0	0	0	0
1/28/2025 12:36	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 12:36	13704	SCHN_T2	1	1	0	0.5	0.2	-0.3	-0.27	-0.31	0	0	0	0	0	0
1/28/2025 12:36	13701	SCHN_T2	3	2	-1	0.13	0.45	0.32	0	0	0	0	0	0	0	0
1/28/2025 12:37	64101	REFR_T1	0	2	2	0	0.2	0.2	-0.02	-0.03	0	0	0	0	0	0
1/28/2025 12:38	64101	REFR_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/28/2025 12:38	44201	POIN_T1	70	0	-70	0.26	0	-0.26	-1.88	-1.4	2	2	0	2100	2100	0
1/28/2025 12:39	64101	REFR_T1	0	2	2	0	0.2	0.2	-0.02	-0.03	0	0	0	0	0	0
1/28/2025 12:40	14802	TREI_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
1/28/2025 12:40	14801	TREI_T2	3	4	1	0.5	0.75	0.25	0.56	0.51	0	0	0	0	0	0
1/28/2025 12:42	29402	BELT_T1	184	333	149	0.62	0.76	0.14	0	0	0	0	0	0	0	0
1/28/2025 12:42	29401	BELT_T1	137	228	91	0.33	0.39	0.06	0	0	0	0	0	0	0	0
1/28/2025 12:43	61502	EPET_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/28/2025 12:43	61505	EPET_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
1/28/2025 12:45	61801	EELI_T2	9	19	10	0.47	0.33	-0.14	0	0	0	0	0	0	0	0
1/28/2025 12:45	61803	EELI_T2	0	0	0	0	0	0	0.96	0.92	0	0	0	0	0	0
1/28/2025 12:45	61802	EELI_T2	1	12	11	0.1	0.18	0.08	-0.42	-0.5	0	0	0	0	0	0
1/28/2025 12:46	46802	HEPB_T1	7	13	6	0.65	0.43	-0.22	-1.26	-1.29	0	0	0	0	0	0
1/28/2025 12:46	61802	EELI_T2	1	12	11	0.1	0.18	0.08	-0.21	-0.25	0	0	0	0	0	0
1/28/2025 12:46	28403	HART_T2	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
1/28/2025 12:46	61801	EELI_T2	9	19	10	0.47	0.33	-0.14	-0.68	-0.72	0	0	0	0	0	0
1/28/2025 12:47	61801	EELI_T2	9	19	10	0.47	0.33	-0.14	-0.34	-0.36	0	0	0	0	0	0
1/28/2025 12:47	61802	EELI_T2	1	12	11	0.1	0.18	0.08	0	0	0	0	0	0	0	0
1/28/2025 12:48	46503	LOHA_T1	0	0	0	0	0	0	-1.24	-1.24	0	0	0	0	0	0
1/28/2025 12:48	46506	LOHA_T1	4	4	0	3.1	3.38	0.28	0	0	0	0	0	0	0	0
1/28/2025 12:48	46504	LOHA_T1	2	2	0	0.2	0.75	0.55	0	0	0	0	0	0	0	0
1/28/2025 12:48	58401	MORO_T1	1	1	0	0.1	0.2	0.1	-0.97	-0.97	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/28/2025 12:49	61702	ELIZ_T2	3	8	5	0.47	0.51	0.04	-0.7	-0.68	1	1	0	300	300	0
1/28/2025 12:49	61704	ELIZ_T2	4	5	1	0.2	0.46	0.26	0	0	0	0	0	0	0	0
1/28/2025 12:50	60502	NMAN_T2	0	0	0	0	0	0	-0.36	-0.41	0	0	0	0	0	0
1/28/2025 12:50	61703	ELIZ_T1	0	7	7	0	0.26	0.26	-2.86	-3.68	4	4	0	3600	3600	0
1/28/2025 12:50	61701	ELIZ_T1	1	2	1	5.6	5.7	0.1	0	0	0	0	0	0	0	0
1/28/2025 12:51	61703	ELIZ_T1	0	7	7	0	0.26	0.26	0	0	0	0	0	0	0	0
1/28/2025 12:51	61701	ELIZ_T1	1	2	1	5.6	5.7	0.1	1.26	1.31	0	0	0	0	0	0
1/28/2025 12:51	60502	NMAN_T2	0	0	0	0	0	0	-0.36	-0.41	0	0	0	0	0	0
1/28/2025 12:51	55001	NEWP_T1	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
1/28/2025 12:51	55002	NEWP_T1	5	4	-1	0.5	0.68	0.18	0	0	0	0	0	0	0	0
1/28/2025 12:52	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 12:52	55002	NEWP_T1	5	4	-1	0.5	0.68	0.18	-0.21	-0.2	0	0	0	0	0	0
1/28/2025 12:52	61701	ELIZ_T1	1	2	1	5.6	5.7	0.1	0	0	0	0	0	0	0	0
1/28/2025 12:52	61703	ELIZ_T1	0	7	7	0	0.26	0.26	-1.84	-1.74	2	2	0	1800	1800	0
1/28/2025 12:57	46002	BERW_T2	0	0	0	0	0	0	-0.56	-0.51	1	1	0	900	900	0
1/28/2025 12:57	46004	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/28/2025 13:01	24105	EHAZ_T1	4	4	0	6.65	6.4	-0.25	0	0	0	0	0	0	0	0
1/28/2025 13:01	24101	EHAZ_T1	67	75	8	1.06	1.03	-0.03	0	0	0	0	0	0	0	0
1/28/2025 13:01	24103	EHAZ_T1	3	6	3	0.67	0.43	-0.24	0	0	0	0	0	0	0	0
1/28/2025 13:01	24102	EHAZ_T1	7	3	-4	0.94	0.3	-0.64	0	0	0	0	0	0	0	0
1/28/2025 13:01	24104	EHAZ_T1	1	1	0	0.4	0.4	0	-0.83	-0.84	1	1	0	1200	1200	0
1/28/2025 13:02	46506	LOHA_T1	4	4	0	3.38	3.4	0.02	-0.11	-0.16	0	0	0	0	0	0
1/28/2025 13:02	46504	LOHA_T1	2	1	-1	0.75	0.2	-0.55	0	0	0	0	0	0	0	0
1/28/2025 13:03	55002	NEWP_T1	4	5	1	0.68	0.48	-0.2	-0.21	-0.2	0	0	0	0	0	0
1/28/2025 13:05	60502	NMAN_T2	0	1	1	0	0.5	0.5	-0.41	-0.48	0	0	0	0	0	0
1/28/2025 13:07	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 13:08	60502	NMAN_T2	0	1	1	0	0.5	0.5	-0.48	-0.35	0	0	0	0	0	0
1/28/2025 13:14	60201	ATGL_T2	76	146	70	0.36	0.35	-0.01	1.02	1.21	0	0	0	0	0	0
1/28/2025 13:24	15403	WALL_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
1/28/2025 13:30	22601	KIMB_T1	1	4	3	0.3	0.3	0	0	0	0	0	0	0	0	0
1/28/2025 13:30	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
1/28/2025 13:30	52401	GRPA_T2	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/28/2025 13:30	52403	GRPA_T2	1	1	0	3.3	2.6	-0.7	0	0	0	0	0	0	0	0
1/28/2025 13:30	52402	GRPA_T2	5	5	0	1.1	1.12	0.02	0	0	0	0	0	0	0	0
1/28/2025 13:32	63601	LETO_T1	5	5	0	0.46	0.54	0.08	0	0	0	0	0	0	0	0
1/28/2025 13:32	63602	LETO_T1	0	0	0	0	0	0	-0.33	-0.5	0	0	0	0	0	0
1/28/2025 13:33	43202	MVIL_T2	41	46	5	0.23	0.25	0.02	-0.55	-0.61	0	0	0	0	0	0
1/28/2025 13:33	52403	GRPA_T2	1	1	0	3.3	2.6	-0.7	0	0	0	0	0	0	0	0
1/28/2025 13:33	52401	GRPA_T2	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/28/2025 13:33	20201	JERM_T1	0	0	0	0	0	0	0.4	0.61	0	0	0	0	0	0
1/28/2025 13:33	52402	GRPA_T2	5	5	0	1.1	1.12	0.02	0	0	0	0	0	0	0	0
1/28/2025 13:34	65003	NEFF_T2	2	4	2	0.15	0.25	0.1	0	0	0	0	0	0	0	0
1/28/2025 13:34	52402	GRPA_T2	5	5	0	1.1	1.12	0.02	0	0	0	0	0	0	0	0
1/28/2025 13:34	65001	NEFF_T2	211	235	24	0.23	0.41	0.18	0	0	0	0	0	0	0	0
1/28/2025 13:34	52401	GRPA_T2	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/28/2025 13:34	65004	NEFF_T2	0	1	1	0	0.2	0.2	-0.51	-0.5	0	0	0	0	0	0
1/28/2025 13:34	52403	GRPA_T2	1	1	0	3.3	2.6	-0.7	-0.63	-0.61	0	0	0	0	0	0
1/28/2025 13:35	44302	BEAV_T2	5	2	-3	0.48	0.5	0.02	0.22	0.23	0	0	0	0	0	0
1/28/2025 13:35	44301	BEAV_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/28/2025 13:35	63601	LETO_T1	5	5	0	0.46	0.54	0.08	0	0	0	0	0	0	0	0
1/28/2025 13:35	63602	LETO_T1	0	0	0	0	0	0	-0.33	-0.5	0	0	0	0	0	0
1/28/2025 13:36	43202	MVIL_T2	41	46	5	0.23	0.25	0.02	-1.1	-1.22	0	0	0	0	0	0
1/28/2025 13:38	53501	EVIL_T2	1	3	2	1.1	0.97	-0.13	-1.26	-1.3	2	2	0	1200	1200	0
1/28/2025 13:42	42701	AUGU_T1	1	0	-1	0.3	0	-0.3	0	0	2	2	0	1800	1800	0
1/28/2025 13:43	42701	AUGU_T1	1	0	-1	0.3	0	-0.3	0	0	2	2	0	1800	1800	0
1/28/2025 13:45	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 13:48	42901	MIDD_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
1/28/2025 13:48	55001	NEWP_T1	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
1/28/2025 13:48	42903	MIDD_T2	2	2	0	1.5	1.6	0.1	0.14	0.23	1	1	0	1200	1200	0
1/28/2025 13:48	55002	NEWP_T1	4	5	1	0.53	0.76	0.23	0	0	0	0	0	0	0	0
1/28/2025 13:48	42902	MIDD_T2	3	10	7	0.47	0.24	-0.23	0	0	0	0	0	0	0	0
1/28/2025 13:48	21504	CEAV_T1	0	0	0	0	0	0	1.26	1.3	0	0	0	0	0	0
1/28/2025 13:48	44302	BEAV_T2	2	1	-1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
1/28/2025 13:48	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 13:49	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
1/28/2025 13:49	44302	BEAV_T2	2	1	-1	0.5	0.1	-0.4	0.23	0.21	0	0	0	0	0	0
1/28/2025 13:51	64101	REFR_T1	0	3	3	0	0.6	0.6	-0.04	-0.03	0	0	0	0	0	0
1/28/2025 13:52	44302	BEAV_T2	2	1	-1	0.5	0.1	-0.4	0.21	0.23	0	0	0	0	0	0
1/28/2025 13:59	40101	HUNT_T2	5	8	3	0.48	0.62	0.14	-0.13	-0.13	0	0	0	0	0	0
1/28/2025 14:03	66302	MCGO_T2	1	1	0	0.4	0.6	0.2	-1.64	-1.55	0	0	0	0	0	0
1/28/2025 14:03	66303	MCGO_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/28/2025 14:04	40101	HUNT_T2	7	7	0	0.66	0.58	-0.08	-0.13	-0.13	0	0	0	0	0	0
1/28/2025 14:10	14603	SWHI_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
1/28/2025 14:10	14601	SWHI_T1	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
1/28/2025 14:11	54505	ENOL_T2	1	2	1	1.1	0.7	-0.4	-1.29	-0.63	1	0	-1	600	0	-600
1/28/2025 14:11	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/28/2025 14:13	61801	EELI_T2	5	15	10	0.68	0.45	-0.23	0	0	0	0	0	0	0	0
1/28/2025 14:13	61802	EELI_T2	0	11	11	0	0.12	0.12	-0.29	-0.3	0	0	0	0	0	0
1/28/2025 14:13	61803	EELI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/28/2025 14:14	61801	EELI_T2	5	15	10	0.68	0.45	-0.23	-0.75	-0.63	0	0	0	0	0	0
1/28/2025 14:14	61802	EELI_T2	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
1/28/2025 14:14	61803	EELI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/28/2025 14:15	61802	EELI_T2	9	58	49	0.12	0.14	0.02	-0.58	-0.6	0	0	0	0	0	0
1/28/2025 14:15	61803	EELI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/28/2025 14:15	61801	EELI_T2	12	26	14	0.53	0.37	-0.16	0	0	0	0	0	0	0	0
1/28/2025 14:17	61803	EELI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/28/2025 14:17	61802	EELI_T2	9	58	49	0.12	0.14	0.02	0	0	0	0	0	0	0	0
1/28/2025 14:17	61801	EELI_T2	12	26	14	0.53	0.37	-0.16	-0.25	-0.21	0	0	0	0	0	0
1/28/2025 14:20	57205	ROSS_T1	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
1/28/2025 14:20	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 14:20	57201	ROSS_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
1/28/2025 14:21	57203	ROSS_T1	0	0	0	0	0	0	-0.29	-0.25	0	0	0	0	0	0
1/28/2025 14:21	57201	ROSS_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
1/28/2025 14:21	54601	SUMM_T2	8	9	1	0.36	0.71	0.35	-1.83	-1.82	2	2	0	2100	2100	0
1/28/2025 14:21	57205	ROSS_T1	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
1/28/2025 14:22	42903	MIDD_T2	2	2	0	1.6	0.65	-0.95	0	0	0	0	0	0	0	0
1/28/2025 14:22	57201	ROSS_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
1/28/2025 14:22	42902	MIDD_T2	9	3	-6	0.26	0.43	0.17	-0.05	0	0	0	0	0	0	0
1/28/2025 14:22	42901	MIDD_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/28/2025 14:22	57205	ROSS_T1	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
1/28/2025 14:22	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 14:36	54601	SUMM_T2	9	12	3	0.48	0.61	0.13	0	0	0	0	0	0	0	0
1/28/2025 14:36	14603	SWHI_T1	2	1	-1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/28/2025 14:36	14601	SWHI_T1	0	0	0	0	0	0	-0.84	-0.83	0	0	0	0	0	0
1/28/2025 14:36	54603	SUMM_T2	0	0	0	0	0	0	-0.45	-0.4	1	1	0	900	900	0
1/28/2025 14:36	43202	MVIL_T2	36	60	24	0.2	0.6	0.4	-0.58	-0.55	0	0	0	0	0	0
1/28/2025 14:37	43301	WATS_T2	1	1	0	0.1	0.2	0.1	0.18	0.16	0	0	0	0	0	0
1/28/2025 14:37	54601	SUMM_T2	9	12	3	0.48	0.61	0.13	0	0	0	0	0	0	0	0
1/28/2025 14:37	54603	SUMM_T2	0	0	0	0	0	0	-0.45	-0.4	1	1	0	900	900	0
1/28/2025 14:38	27503	WEIS_T2	237	297	60	0.32	0.32	0	0	0	0	0	0	0	0	0
1/28/2025 14:38	27502	WEIS_T2	28	48	20	0.31	0.3	-0.01	-0.46	-0.47	0	0	0	0	0	0
1/28/2025 14:41	46004	BERW_T2	1	1	0	0.9	0.2	-0.7	-0.54	-0.65	0	0	0	0	0	0
1/28/2025 14:46	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
1/28/2025 14:46	53903	HALI_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
1/28/2025 14:46	53901	HALI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/28/2025 14:47	46504	LOHA_T1	2	2	0	0.35	0.9	0.55	0	0	0	0	0	0	0	0
1/28/2025 14:47	46506	LOHA_T1	3	3	0	4.43	4.8	0.37	0	0	0	0	0	0	0	0
1/28/2025 14:47	46501	LOHA_T1	0	0	0	0	0	0	-0.04	-0.09	1	1	0	1200	1200	0
1/28/2025 14:50	50506	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 14:50	50501	MECH_T1	4	4	0	0.98	1.03	0.05	0	0	0	0	0	0	0	0
1/28/2025 14:50	50502	MECH_T1	1	1	0	1.7	2.1	0.4	0	0	0	0	0	0	0	0
1/28/2025 14:50	64101	REFR_T1	1	1	0	1	0.5	-0.5	-0.03	-0.01	0	0	0	0	0	0
1/28/2025 14:51	57203	ROSS_T1	0	0	0	0	0	0	-0.84	-0.66	0	0	0	0	0	0
1/28/2025 14:51	57205	ROSS_T1	2	1	-1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/28/2025 14:51	57201	ROSS_T1	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
1/28/2025 14:52	14603	SWHI_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/28/2025 14:52	14705	TREX_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
1/28/2025 14:52	67103	SPRI_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
1/28/2025 14:52	14704	TREX_T1	1	1	0	7.9	6.8	-1.1	0	0	0	0	0	0	0	0
1/28/2025 14:52	14601	SWHI_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
1/28/2025 14:53	57205	ROSS_T1	2	1	-1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/28/2025 14:53	57201	ROSS_T1	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
1/28/2025 14:53	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 14:53	64101	REFR_T1	1	1	0	1	0.5	-0.5	-0.01	-0.03	0	0	0	0	0	0
1/28/2025 14:54	57201	ROSS_T1	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
1/28/2025 14:54	59101	WALK_T2	1	1	0	3.1	3.8	0.7	3.98	3.82	0	0	0	0	0	0
1/28/2025 14:54	57205	ROSS_T1	2	1	-1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/28/2025 14:54	14601	SWHI_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
1/28/2025 14:54	64101	REFR_T1	1	1	0	1	0.5	-0.5	-0.01	-0.03	0	0	0	0	0	0
1/28/2025 14:54	14603	SWHI_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/28/2025 14:54	57203	ROSS_T1	0	0	0	0	0	0	-0.28	-0.22	0	0	0	0	0	0
1/28/2025 14:55	64101	REFR_T1	1	1	0	1	0.5	-0.5	-0.01	-0.03	0	0	0	0	0	0
1/28/2025 14:57	59101	WALK_T2	1	1	0	3.1	3.8	0.7	3.98	3.82	0	0	0	0	0	0
1/28/2025 14:58	60902	DONG_T2	0	1	1	0	0.1	0.1	0.6	0.59	0	0	0	0	0	0
1/28/2025 14:58	60904	DONG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/28/2025 14:58	60901	DONG_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
1/28/2025 15:03	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-1.06	-1.07	1	1	0	600	600	0
1/28/2025 15:04	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-1.06	-1.07	1	1	0	600	600	0
1/28/2025 15:04	48602	POCA_T1	0	0	0	0	0	0	0.37	0.31	0	0	0	0	0	0
1/28/2025 15:05	48602	POCA_T1	0	0	0	0	0	0	0.37	0.31	0	0	0	0	0	0
1/28/2025 15:06	55002	NEWP_T1	4	4	0	0.58	0.6	0.02	0	0	0	0	0	0	0	0
1/28/2025 15:06	55001	NEWP_T1	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
1/28/2025 15:08	55001	NEWP_T1	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
1/28/2025 15:08	55002	NEWP_T1	4	4	0	0.58	0.6	0.02	0	0	0	0	0	0	0	0
1/28/2025 15:15	22602	KIMB_T1	1	0	-1	0.1	0	-0.1	0.13	0.13	0	0	0	0	0	0
1/28/2025 15:18	63501	HEID_TBK1-2	2	5	3	0.15	0.1	-0.05	0.04	-0.05	1	1	0	900	900	0
1/28/2025 15:19	63501	HEID_TBK1-2	2	5	3	0.15	0.1	-0.05	0.04	-0.05	1	1	0	900	900	0
1/28/2025 15:19	15603	NSTR_T2	0	0	0	0	0	0	-0.49	-0.47	0	0	0	0	0	0
1/28/2025 15:25	17802	GILB_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
1/28/2025 15:33	64801	MONE_T2	9	0	-9	0.12	0	-0.12	0	0	0	0	0	0	0	0
1/28/2025 15:33	64802	MONE_T2	8	0	-8	0.13	0	-0.13	0.22	0.18	0	0	0	0	0	0
1/28/2025 15:36	64801	MONE_T2	9	0	-9	0.12	0	-0.12	0	0	0	0	0	0	0	0
1/28/2025 15:36	64802	MONE_T2	8	0	-8	0.13	0	-0.13	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/28/2025 15:37	64802	MONE_T2	8	0	-8	0.13	0	-0.13	0	0	0	0	0	0	0	0
1/28/2025 15:37	64801	MONE_T2	9	0	-9	0.12	0	-0.12	-0.04	-0.03	0	0	0	0	0	0
1/28/2025 15:38	67401	WAKE_T2	26	9	-17	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
1/28/2025 15:38	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
1/28/2025 15:40	60801	BUCK_T1	27	0	-27	0.27	0	-0.27	0.16	0.24	0	0	0	0	0	0
1/28/2025 15:40	60803	BUCK_T1	20	13	-7	0.61	0.26	-0.35	0	0	0	0	0	0	0	0
1/28/2025 15:41	67402	WAKE_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
1/28/2025 15:41	67401	WAKE_T2	26	9	-17	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
1/28/2025 15:46	11203	ELHE_T1	0	0	0	0	0	0	0.82	0.8	0	0	0	0	0	0
1/28/2025 15:50	13704	SCHN_T2	0	0	0	0	0	0	-0.3	-0.23	0	0	0	0	0	0
1/28/2025 15:55	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 15:55	55105	WERT_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 15:56	13704	SCHN_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
1/28/2025 15:56	42501	ALTA_T2	10	5	-5	0.11	0.12	0.01	0.01	0.02	1	1	0	600	600	0
1/28/2025 15:56	42504	ALTA_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
1/28/2025 15:56	42503	ALTA_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
1/28/2025 15:57	44902	SCOT_T2	756	758	2	0.81	0.65	-0.16	0	0	0	0	0	0	0	0
1/28/2025 15:57	44901	SCOT_T2	271	162	-109	0.46	0.25	-0.21	-0.2	-0.19	0	0	0	0	0	0
1/28/2025 16:05	61702	ELIZ_T2	0	0	0	0	0	0	-0.76	-0.84	0	0	0	0	0	0
1/28/2025 16:05	61704	ELIZ_T2	5	5	0	0.56	0.56	0	0	0	0	0	0	0	0	0
1/28/2025 16:16	63501	HEID_TBK1-2	11	38	27	0.17	0.19	0.02	-0.28	-0.32	1	1	0	900	900	0
1/28/2025 16:22	14603	SWHI_T1	0	0	0	0	0	0	-0.96	-0.95	1	1	0	600	600	0
1/28/2025 16:25	67401	WAKE_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/28/2025 16:25	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
1/28/2025 16:36	25801	SUTR_T2	2	2	0	8.5	8.75	0.25	0.02	0	0	0	0	0	0	0
1/28/2025 16:36	66505	SMAN_T2	3	3	0	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
1/28/2025 16:36	66504	SMAN_T2	0	0	0	0	0	0	-0.46	-0.36	0	0	0	0	0	0
1/28/2025 16:44	46001	BERW_T1	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
1/28/2025 16:49	58202	NEWV_T1	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
1/28/2025 19:04	63305	GREE_T1	0	0	0	0	0	0	-1.44	-1.44	0	0	0	0	0	0
1/28/2025 19:10	26704	HEML_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
1/28/2025 19:11	41902	REED_T1	8	30	22	0.46	0.38	-0.08	0	0	0	0	0	0	0	0
1/28/2025 19:11	41903	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:11	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/28/2025 19:14	15601	NSTR_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
1/28/2025 19:14	15603	NSTR_T2	0	0	0	0	0	0	-1.06	-1.09	0	0	0	0	0	0
1/28/2025 19:16	27901	BCRK_T1	5	3	-2	2.16	3.1	0.94	0	0	0	0	0	0	0	0
1/28/2025 19:16	23202	HIRU_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:16	17802	GILB_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
1/28/2025 19:18	29402	BELT_T1	1	2	1	5.8	6.1	0.3	0	0	0	0	0	0	0	0
1/28/2025 19:18	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/28/2025 19:18	24701	FLND_T2	9	25	16	0.5	0.32	-0.18	0	0	0	0	0	0	0	0
1/28/2025 19:18	24702	FLND_T2	13	15	2	0.82	1.19	0.37	0.88	1.12	0	0	0	0	0	0
1/28/2025 19:18	24703	FLND_T2	6	6	0	0.88	1	0.12	0	0	0	0	0	0	0	0
1/28/2025 19:19	25801	SUTR_T2	2	2	0	9	8.9	-0.1	-0.54	-0.53	0	0	0	0	0	0
1/28/2025 19:20	20201	JERM_T1	0	0	0	0	0	0	0.37	0.47	0	0	0	0	0	0
1/28/2025 19:20	10102	ALLE_T2	41	44	3	2.67	2.22	-0.45	0	0	0	0	0	0	0	0
1/28/2025 19:20	14801	TREI_T2	0	1	1	0	0	0	0.68	0.72	0	0	0	0	0	0
1/28/2025 19:20	46004	BERW_T2	2	4	2	0.25	0.4	0.15	0	0	0	0	0	0	0	0
1/28/2025 19:20	11301	EMMA_T1	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
1/28/2025 19:20	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:20	46002	BERW_T2	0	0	0	0	0	0	-1.08	-1.08	1	1	0	900	900	0
1/28/2025 19:20	10206	ALLE_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
1/28/2025 19:20	17802	GILB_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
1/28/2025 19:20	29402	BELT_T1	1	2	1	5.8	6.1	0.3	0	0	0	0	0	0	0	0
1/28/2025 19:20	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:21	45602	WOOL_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
1/28/2025 19:21	27503	WEIS_T2	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
1/28/2025 19:21	27502	WEIS_T2	1	0	-1	0.4	0	-0.4	-0.22	-0.31	0	0	0	0	0	0
1/28/2025 19:22	29402	BELT_T1	1	2	1	5.8	6.1	0.3	0	0	0	0	0	0	0	0
1/28/2025 19:22	24204	PROV_T3	5	4	-1	1.32	1.6	0.28	0	0	0	0	0	0	0	0
1/28/2025 19:22	24205	PROV_T3	7	1	-6	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
1/28/2025 19:22	15601	NSTR_T2	1	14	13	0.1	0.58	0.48	0	0	0	0	0	0	0	0
1/28/2025 19:22	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:22	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/28/2025 19:22	11301	EMMA_T1	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
1/28/2025 19:22	44902	SCOT_T2	715	747	32	0.69	0.72	0.03	0	0	0	0	0	0	0	0
1/28/2025 19:22	44901	SCOT_T2	190	179	-11	0.36	0.31	-0.05	-0.35	-0.38	0	0	0	0	0	0
1/28/2025 19:22	24201	PROV_T3	4	3	-1	4.05	5.37	1.32	-1.35	-1.36	1	1	0	1200	1200	0
1/28/2025 19:23	20603	GRWO_T2	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
1/28/2025 19:23	20601	GRWO_T2	3	5	2	1.3	0.73	-0.57	0	0	0	0	0	0	0	0
1/28/2025 19:23	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:24	14603	SWHI_T1	0	0	0	0	0	0	-1.55	-1.56	2	2	0	1200	1200	0
1/28/2025 19:24	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
1/28/2025 19:24	21504	CEAV_T1	0	0	0	0	0	0	1.32	1.35	0	0	0	0	0	0
1/28/2025 19:24	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/28/2025 19:24	44902	SCOT_T2	715	747	32	0.69	0.72	0.03	0	0	0	0	0	0	0	0
1/28/2025 19:24	14704	TREX_T1	1	1	0	9.7	9.7	0	0	0	0	0	0	0	0	0
1/28/2025 19:24	46501	LOHA_T1	1	1	0	1.7	0.6	-1.1	0	0	0	0	0	0	0	0
1/28/2025 19:24	15404	WALL_T1	0	0	0	0	0	0	-1.93	-1.95	0	0	0	0	0	0
1/28/2025 19:24	14705	TREX_T1	0	1	1	0	0	0	-0.28	-0.28	0	0	0	0	0	0
1/28/2025 19:24	14204	EALL_T2	0	0	0	0	0	0	-1.08	-1.17	0	0	0	0	0	0
1/28/2025 19:24	46506	LOHA_T1	4	4	0	2.38	2.28	-0.1	0	0	0	0	0	0	0	0
1/28/2025 19:24	10105	ALLE_T3	21	25	4	1.37	1.86	0.49	0	0	0	0	0	0	0	0
1/28/2025 19:24	29402	BELT_T1	1	2	1	5.8	6.1	0.3	0	0	0	0	0	0	0	0
1/28/2025 19:24	15601	NSTR_T2	1	14	13	0.1	0.58	0.48	0	0	0	0	0	0	0	0
1/28/2025 19:24	10109	ALLE_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:24	10103	ALLE_T3	1	2	1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
1/28/2025 19:24	10107	ALLE_T3	11	8	-3	0.34	0.25	-0.09	0	0	0	0	0	0	0	0
1/28/2025 19:24	10205	ALLE_T3	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
1/28/2025 19:24	14601	SWHI_T1	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
1/28/2025 19:24	10101	ALLE_T3	55	85	30	1.01	1.27	0.26	0	0	0	0	0	0	0	0
1/28/2025 19:24	46004	BERW_T2	2	4	2	0.25	0.4	0.15	-0.56	-0.61	0	0	0	0	0	0
1/28/2025 19:24	44901	SCOT_T2	190	179	-11	0.36	0.31	-0.05	-0.35	-0.38	0	0	0	0	0	0
1/28/2025 19:25	46501	LOHA_T1	1	1	0	1.7	0.6	-1.1	-0.08	-0.07	1	1	0	1200	1200	0
1/28/2025 19:25	52004	LING_T2	2	2	0	5.4	5.45	0.05	0.28	0.28	0	0	0	0	0	0
1/28/2025 19:25	15601	NSTR_T2	1	14	13	0.1	0.58	0.48	0	0	0	0	0	0	0	0
1/28/2025 19:25	44903	SCOT_T1	0	0	0	0	0	0	0.45	0.51	0	0	0	0	0	0
1/28/2025 19:25	44905	SCOT_T1	5	5	0	0.54	0.35	-0.19	0	0	0	0	0	0	0	0
1/28/2025 19:25	46506	LOHA_T1	4	4	0	2.38	2.28	-0.1	0	0	0	0	0	0	0	0
1/28/2025 19:25	44904	SCOT_T1	0	0	0	0	0	0	0.72	0.67	0	0	0	0	0	0
1/28/2025 19:26	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:26	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
1/28/2025 19:26	65001	NEFF_T2	222	208	-14	0.29	0.23	-0.06	0	0	0	0	0	0	0	0
1/28/2025 19:26	61801	EELI_T2	2	2	0	0.3	0.55	0.25	-0.93	-0.97	1	1	0	600	600	0
1/28/2025 19:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/28/2025 19:26	46802	HEPB_T1	1	1	0	1.5	1.7	0.2	-1.1	-1.15	0	0	0	0	0	0
1/28/2025 19:26	14204	EALL_T2	0	0	0	0	0	0	-1.08	-1.17	0	0	0	0	0	0
1/28/2025 19:26	14601	SWHI_T1	0	0	0	0	0	0	-1.44	-1.42	0	0	0	0	0	0
1/28/2025 19:26	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/28/2025 19:26	65004	NEFF_T2	0	0	0	0	0	0	-0.84	-0.86	0	0	0	0	0	0
1/28/2025 19:26	15601	NSTR_T2	1	14	13	0.1	0.58	0.48	0	0	0	0	0	0	0	0
1/28/2025 19:26	13701	SOHN_T2	0	0	0	0	0	0	-0.01	-0.04	1	1	0	600	600	0
1/28/2025 19:26	65003	NEFF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/28/2025 19:26	29402	BELT_T1	1	2	1	5.8	6.1	0.3	0	0	0	0	0	0	0	0
1/28/2025 19:26	55002	NEWP_T1	5	4	-1	0.92	0.8	-0.12	-0.19	-0.19	0	0	0	0	0	0
1/28/2025 19:26	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
1/28/2025 19:27	43202	MVIL_T2	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
1/28/2025 19:27	45302	WBER_T2	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
1/28/2025 19:27	41202	KENM_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
1/28/2025 19:27	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
1/28/2025 19:27	40101	HUNT_T2	40	65	25	0.72	0.79	0.07	-0.73	-0.76	0	0	0	0	0	0
1/28/2025 19:27	44201	POIN_T1	100	96	-4	0.32	0.29	-0.03	-2.53	-2.5	2	2	0	2100	2100	0
1/28/2025 19:27	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:27	45303	WBER_T2	1	1	0	9.6	9.7	0.1	0	0	0	0	0	0	0	0
1/28/2025 19:27	61304	EARL_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
1/28/2025 19:28	46501	LOHA_T1	1	1	0	1.7	0.6	-1.1	0	0	0	0	0	0	0	0
1/28/2025 19:28	46506	LOHA_T1	4	4	0	2.38	2.28	-0.1	0	0	0	0	0	0	0	0
1/28/2025 19:28	14603	SWHI_T1	0	0	0	0	0	0	-3.1	-3.12	4	4	0	2400	2400	0
1/28/2025 19:28	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
1/28/2025 19:29	45501	DERR_T2	0	0	0	0	0	0	0.44	0.3	2	2	0	1800	1800	0
1/28/2025 19:29	64503	LAVI_T1	0	0	0	0	0	0	-0.93	-0.9	2	2	0	2400	2400	0
1/28/2025 19:29	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	-1.64	-1.56	2	2	0	1200	1200	0
1/28/2025 19:29	42902	MIDD_T2	36	3	-33	0.69	1	0.31	-0.53	-0.53	0	0	0	0	0	0
1/28/2025 19:29	54505	ENOL_T2	1	1	0	0.5	0.4	-0.1	-1.14	-1.17	1	1	0	600	600	0
1/28/2025 19:29	24102	EHAZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/28/2025 19:29	42903	MIDD_T2	2	2	0	1.25	1.15	-0.1	0	0	0	0	0	0	0	0
1/28/2025 19:29	24101	EHAZ_T1	33	33	0	1.5	2.58	1.08	0	0	0	0	0	0	0	0
1/28/2025 19:29	24104	EHAZ_T1	0	0	0	0	0	0	-0.83	-0.84	1	1	0	1200	1200	0
1/28/2025 19:29	61702	ELIZ_T2	0	0	0	0	0	0	-0.71	-0.74	1	1	0	300	300	0
1/28/2025 19:29	67103	SPRI_T1	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
1/28/2025 19:29	24103	EHAZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:29	57203	ROSS_T1	0	0	0	0	0	0	0.94	0.96	0	0	0	0	0	0
1/28/2025 19:29	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:29	55002	NEWP_T1	5	4	-1	0.92	0.8	-0.12	0	0	0	0	0	0	0	0
1/28/2025 19:29	67105	SPRI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/28/2025 19:29	24105	EHAZ_T1	11	10	-1	2.28	5.9	3.62	0	0	0	0	0	0	0	0
1/28/2025 19:29	40201	BEGA_T2	2	7	5	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
1/28/2025 19:30	40101	HUNT_T2	47	63	16	0.75	0.99	0.24	-0.73	-0.76	0	0	0	0	0	0
1/28/2025 19:30	10801	CHHI_T1	0	0	0	0	0	0	-1.39	-1.38	2	2	0	1500	1500	0
1/28/2025 19:30	28403	HART_T2	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
1/28/2025 19:30	10109	ALLE_T3	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/28/2025 19:30	60101	COCA_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
1/28/2025 19:30	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/28/2025 19:30	43304	WATS_T2	0	0	0	0	0	0	0.23	0.23	1	1	0	600	600	0
1/28/2025 19:30	61802	EELI_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
1/28/2025 19:30	63501	HEID_TBK1-2	35	50	15	0.23	0.45	0.22	-0.8	-0.96	2	2	0	1800	1800	0
1/28/2025 19:30	10107	ALLE_T3	8	3	-5	0.21	0	-0.21	0	0	0	0	0	0	0	0
1/28/2025 19:30	10105	ALLE_T3	19	33	14	1.25	1.77	0.52	0	0	0	0	0	0	0	0
1/28/2025 19:30	10101	ALLE_T3	81	73	-8	1.55	1.62	0.07	0	0	0	0	0	0	0	0
1/28/2025 19:30	61701	ELIZ_T1	1	1	0	4.9	5.3	0.4	1.14	1.17	0	0	0	0	0	0
1/28/2025 19:30	27102	GFLD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:30	27101	GFLD_T2	1	0	-1	0.3	0	-0.3	-0.3	-0.24	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/28/2025 19:30	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:30	14204	EALL_T2	0	0	0	0	0	0	-1.08	-1.17	0	0	0	0	0	0
1/28/2025 19:30	42701	AUGU_T1	2	1	-1	0.6	0.2	-0.4	0	0	2	2	0	1800	1800	0
1/28/2025 19:30	43202	MVIL_T2	0	1	1	0	0	0	-0.61	-0.6	0	0	0	0	0	0
1/28/2025 19:30	65702	RVIL_T2	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
1/28/2025 19:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:30	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:30	60201	ATGL_T2	72	66	-6	0.35	0.31	-0.04	-0.16	-0.07	0	0	0	0	0	0
1/28/2025 19:30	46004	BERW_T2	2	6	4	0.5	0.33	-0.17	-0.56	-0.61	0	0	0	0	0	0
1/28/2025 19:30	61801	EELI_T2	2	4	2	0.45	0.48	0.03	-0.93	-0.97	1	1	0	600	600	0
1/28/2025 19:30	10103	ALLE_T3	1	2	1	2.3	0.7	-1.6	0	0	0	0	0	0	0	0
1/28/2025 19:30	10205	ALLE_T3	1	1	0	1.1	0.2	-0.9	0	0	0	0	0	0	0	0
1/28/2025 19:30	59101	WALK_T2	1	1	0	2.6	3.1	0.5	0.56	0.71	1	1	0	600	600	0
1/28/2025 19:31	65001	NEFF_T2	177	216	39	0.19	0.26	0.07	-1.09	-1.07	1	1	0	1200	1200	0
1/28/2025 19:31	60101	COCA_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
1/28/2025 19:31	66302	MCGO_T2	0	0	0	0	0	0	-1.57	-1.53	1	1	0	600	600	0
1/28/2025 19:31	43202	MVIL_T2	0	1	1	0	0	0	-0.61	-0.6	0	0	0	0	0	0
1/28/2025 19:31	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
1/28/2025 19:31	52402	GRPA_T2	1	3	2	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/28/2025 19:31	66303	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/28/2025 19:31	65207	PRIN_T4	1	4	3	1	1.85	0.85	0	0	0	0	0	0	0	0
1/28/2025 19:31	57201	ROSS_T1	0	0	0	0	0	0	-0.62	-0.56	0	0	0	0	0	0
1/28/2025 19:31	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:31	64305	LINC_T1	0	0	0	0	0	0	-0.58	-0.54	0	0	0	0	0	0
1/28/2025 19:31	65003	NEFF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/28/2025 19:31	45501	DERR_T2	0	0	0	0	0	0	0.44	0.3	2	2	0	1800	1800	0
1/28/2025 19:31	41301	FISH_T1	3	3	0	1.4	1.63	0.23	-0.26	-0.25	0	0	0	0	0	0
1/28/2025 19:31	52401	GRPA_T2	0	0	0	0	0	0	-0.69	-0.74	0	0	0	0	0	0
1/28/2025 19:31	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:31	54601	SUMM_T2	0	1	1	0	0.2	0.2	-1.73	-1.74	2	2	0	2100	2100	0
1/28/2025 19:31	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:31	60502	NMAN_T2	0	0	0	0	0	0	-0.27	-0.35	0	0	0	0	0	0
1/28/2025 19:31	66505	SMAN_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
1/28/2025 19:31	52403	GRPA_T2	1	3	2	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
1/28/2025 19:31	44201	POIN_T1	75	112	37	0.23	0.36	0.13	-2.53	-2.5	2	2	0	2100	2100	0
1/28/2025 19:31	46001	BERW_T1	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
1/28/2025 19:31	40101	HUNT_T2	47	63	16	0.75	0.99	0.24	-0.73	-0.76	0	0	0	0	0	0
1/28/2025 19:31	54501	ENOL_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
1/28/2025 19:31	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:31	63501	HEID_TBK1-2	35	50	15	0.23	0.45	0.22	-0.4	-0.48	1	1	0	900	900	0
1/28/2025 19:32	16102	BING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/28/2025 19:32	43301	WATS_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
1/28/2025 19:32	14204	EALL_T2	0	0	0	0	0	0	-1.08	-1.17	0	0	0	0	0	0
1/28/2025 19:32	58102	NEKI_T1	1	1	0	0.7	0.9	0.2	0.21	0.21	0	0	0	0	0	0
1/28/2025 19:32	65202	PRIN_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/28/2025 19:32	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	-2.28	-2.34	2	2	0	1200	1200	0
1/28/2025 19:32	47203	FAXO_T2	1	1	0	2.3	2.5	0.2	-1.7	-1.73	1	1	0	1200	1200	0
1/28/2025 19:32	48602	POCA_T1	0	0	0	0	0	0	0.53	0.69	0	0	0	0	0	0
1/28/2025 19:32	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:32	60101	COCA_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
1/28/2025 19:32	54506	ENOL_T2	0	0	0	0	0	0	0.41	0.54	0	0	0	0	0	0
1/28/2025 19:32	10801	CHHI_T1	0	0	0	0	0	0	-1.39	-1.38	2	2	0	1500	1500	0
1/28/2025 19:32	42902	MIDD_T2	3	1	-2	0.77	1	0.23	-1.06	-1.06	0	0	0	0	0	0
1/28/2025 19:32	13302	ORVI_T2	203	250	47	0.26	0.33	0.07	0	-0.06	0	0	0	0	0	0
1/28/2025 19:32	61301	EARL_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
1/28/2025 19:32	42903	MIDD_T2	2	2	0	1.15	1.05	-0.1	0	0	0	0	0	0	0	0
1/28/2025 19:32	61304	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:32	60201	ATGL_T2	72	66	-6	0.35	0.31	-0.04	-0.16	-0.07	0	0	0	0	0	0
1/28/2025 19:32	41301	FISH_T1	3	3	0	1.4	1.63	0.23	0	0	0	0	0	0	0	0
1/28/2025 19:32	57203	ROSS_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
1/28/2025 19:32	42701	AUGU_T1	2	1	-1	0.6	0.2	-0.4	0	0	4	4	0	3600	3600	0
1/28/2025 19:32	14601	SWHI_T1	0	0	0	0	0	0	-1.44	-1.42	0	0	0	0	0	0
1/28/2025 19:32	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/28/2025 19:32	65205	PRIN_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
1/28/2025 19:32	55002	NEWP_T1	4	5	1	0.8	0.42	-0.38	-0.19	-0.19	0	0	0	0	0	0
1/28/2025 19:32	61306	EARL_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
1/28/2025 19:33	40603	PIGR_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
1/28/2025 19:33	64802	MONE_T2	3	1	-2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/28/2025 19:33	40201	BEGA_T2	3	7	4	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
1/28/2025 19:33	54601	SUMM_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/28/2025 19:33	40602	PIGR_T1	1	3	2	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/28/2025 19:33	54603	SUMM_T2	0	0	0	0	0	0	-0.4	-0.31	1	1	0	900	900	0
1/28/2025 19:33	60803	BUCK_T1	11	4	-7	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
1/28/2025 19:33	43202	MVIL_T2	0	1	1	0	0	0	-0.61	-0.6	0	0	0	0	0	0
1/28/2025 19:33	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:33	64801	MONE_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
1/28/2025 19:33	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/28/2025 19:33	57201	ROSS_T1	0	0	0	0	0	0	-0.62	-0.56	0	0	0	0	0	0
1/28/2025 19:33	60801	BUCK_T1	12	1	-11	0.12	0.1	-0.02	-0.21	-0.21	0	0	0	0	0	0
1/28/2025 19:33	44302	BEAV_T2	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
1/28/2025 19:33	40601	PIGR_T1	6	12	6	0.15	0.18	0.03	0	0	0	0	0	0	0	0
1/28/2025 19:33	64503	LAVI_T1	0	0	0	0	0	0	-0.47	-0.45	1	1	0	1200	1200	0
1/28/2025 19:33	61301	EARL_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
1/28/2025 19:34	10101	ALLE_T3	81	73	-8	1.55	1.62	0.07	0	0	0	0	0	0	0	0
1/28/2025 19:34	20601	GRWO_T2	4	4	0	0.85	6.05	5.2	0	0	0	0	0	0	0	0
1/28/2025 19:34	66504	SMAN_T2	0	0	0	0	0	0	-0.39	-0.36	0	0	0	0	0	0
1/28/2025 19:34	60502	NMAN_T2	0	0	0	0	0	0	-0.54	-0.7	0	0	0	0	0	0
1/28/2025 19:34	65702	RVIL_T2	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
1/28/2025 19:34	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	-1.14	-1.17	1	1	0	600	600	0
1/28/2025 19:34	20603	GRWO_T2	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
1/28/2025 19:34	64802	MONE_T2	3	1	-2	0.2	0.1	-0.1	-0.02	-0.03	0	0	0	0	0	0
1/28/2025 19:34	58402	MORO_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
1/28/2025 19:34	67402	WAKE_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
1/28/2025 19:34	60201	ATGL_T2	72	66	-6	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
1/28/2025 19:34	61802	EELI_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
1/28/2025 19:34	10102	ALLE_T2	44	42	-2	2.37	2.96	0.59	0	0	0	0	0	0	0	0
1/28/2025 19:34	66505	SMAN_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
1/28/2025 19:34	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:34	58401	MORO_T1	0	0	0	0	0	0	-1.04	-1.02	1	1	0	600	600	0
1/28/2025 19:34	10205	ALLE_T3	1	1	0	1.1	0.2	-0.9	0	0	0	0	0	0	0	0
1/28/2025 19:34	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:34	10103	ALLE_T3	1	2	1	2.3	0.7	-1.6	0	0	0	0	0	0	0	0
1/28/2025 19:34	10109	ALLE_T3	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/28/2025 19:34	10107	ALLE_T3	8	3	-5	0.21	0	-0.21	0	0	0	0	0	0	0	0
1/28/2025 19:34	64301	LINC_T1	0	0	0	0	0	0	0.27	0.31	0	0	0	0	0	0
1/28/2025 19:34	10206	ALLE_T2	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
1/28/2025 19:34	10105	ALLE_T3	19	33	14	1.25	1.77	0.52	0	0	0	0	0	0	0	0
1/28/2025 19:34	61801	EELI_T2	2	4	2	0.45	0.48	0.03	-0.93	-0.97	1	1	0	600	600	0
1/28/2025 19:34	54502	ENOL_T2	0	0	0	0	0	0	-1.88	-1.92	1	1	0	600	600	0
1/28/2025 19:35	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
1/28/2025 19:35	44902	SCOT_T2	724	741	17	0.67	0.71	0.04	-0.91	-0.93	0	0	0	0	0	0
1/28/2025 19:35	61701	ELIZ_T1	1	1	0	4.9	5.3	0.4	0	0	0	0	0	0	0	0
1/28/2025 19:35	54503	ENOL_T2	0	0	0	0	0	0	-0.68	-0.7	2	2	0	1200	1200	0
1/28/2025 19:35	52403	GRPA_T2	1	3	2	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
1/28/2025 19:35	53903	HALI_T2	2	2	0	0.7	1	0.3	0	0	0	0	0	0	0	0
1/28/2025 19:35	40302	TAMA_T3	4	5	1	0.4	0.46	0.06	0	0	0	0	0	0	0	0
1/28/2025 19:35	40701	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:35	44901	SCOT_T2	171	161	-10	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
1/28/2025 19:35	55002	NEWP_T1	4	5	1	0.8	0.42	-0.38	0	0	0	0	0	0	0	0
1/28/2025 19:35	40201	BEGA_T2	3	7	4	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
1/28/2025 19:35	61703	ELIZ_T1	0	0	0	0	0	0	-2.52	-2.46	3	3	0	2700	2700	0
1/28/2025 19:35	57205	ROSS_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
1/28/2025 19:35	52101	MEIS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/28/2025 19:35	63501	HEID_TBK1-2	35	50	15	0.23	0.45	0.22	0	0	0	0	0	0	0	0
1/28/2025 19:35	52102	MEIS_T1	3	2	-1	0.77	1.6	0.83	0	0	1	1	0	450	450	0
1/28/2025 19:35	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	-2.28	-2.34	2	2	0	1200	1200	0
1/28/2025 19:35	54502	ENOL_T2	0	0	0	0	0	0	-1.88	-1.92	1	1	0	600	600	0
1/28/2025 19:35	55001	NEWP_T1	0	0	0	0	0	0	-0.82	-0.78	1	1	0	600	600	0
1/28/2025 19:35	42903	MIDD_T2	2	2	0	1.15	1.05	-0.1	-0.04	-0.01	0	0	0	0	0	0
1/28/2025 19:35	64204	KINZ_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
1/28/2025 19:35	52402	GRPA_T2	1	3	2	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/28/2025 19:35	53901	HALI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:35	40301	TAMA_T3	1	1	0	0	0	0	1.49	1.49	1	1	0	1200	1200	0
1/28/2025 19:35	53501	EVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/28/2025 19:35	64203	KINZ_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
1/28/2025 19:35	42902	MIDD_T2	3	1	-2	0.77	1	0.23	-0.53	-0.53	0	0	0	0	0	0
1/28/2025 19:35	61502	EPET_T1	0	0	0	0	0	0	-1.11	-1.02	0	0	0	0	0	0
1/28/2025 19:36	42503	ALTA_T2	4	4	0	0.53	0	-0.53	0	0	0	0	0	0	0	0
1/28/2025 19:36	66505	SMAN_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
1/28/2025 19:36	44905	SCOT_T1	4	5	1	0.43	0	-0.43	0	0	0	0	0	0	0	0
1/28/2025 19:36	57205	ROSS_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
1/28/2025 19:36	44201	POIN_T1	75	112	37	0.23	0.36	0.13	-2.53	-2.5	2	2	0	2100	2100	0
1/28/2025 19:36	65702	RVIL_T2	0	0	0	0	0	0	-1.77	-1.8	0	0	0	0	0	0
1/28/2025 19:36	42501	ALTA_T2	0	0	0	0	0	0	0.05	0.08	1	1	0	600	600	0
1/28/2025 19:36	59101	WALK_T2	1	1	0	2.6	3.1	0.5	0.71	0.87	1	1	0	600	600	0
1/28/2025 19:36	54501	ENOL_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
1/28/2025 19:36	40602	PIGR_T1	1	3	2	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/28/2025 19:36	20601	GRWO_T2	4	4	0	0.85	6.05	5.2	-0.03	0.03	0	0	0	0	0	0
1/28/2025 19:36	54502	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:36	60801	BUCK_T1	12	1	-11	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
1/28/2025 19:36	40601	PIGR_T1	6	12	6	0.15	0.18	0.03	0	0	0	0	0	0	0	0
1/28/2025 19:36	60803	BUCK_T1	11	4	-7	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
1/28/2025 19:36	61701	ELIZ_T1	1	1	0	4.9	5.3	0.4	0	0	0	0	0	0	0	0
1/28/2025 19:36	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/28/2025 19:36	13704	SCHN_T2	0	0	0	0	0	0	-0.74	-0.77	0	0	0	0	0	0
1/28/2025 19:36	40201	BEGA_T2	3	7	4	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
1/28/2025 19:36	58402	MORO_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
1/28/2025 19:36	61304	EARL_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
1/28/2025 19:36	58202	NEWV_T1	0	0	0	0	0	0	0.02	-0.05	0	0	0	0	0	0
1/28/2025 19:36	55105	WERT_T1	0	0	0	0	0	0	-0.48	-0.4	1	1	0	900	900	0
1/28/2025 19:36	57704	PAXT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:36	54504	ENOL_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
1/28/2025 19:36	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	-1.17	-1.16	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/28/2025 19:36	52402	GRPA_T2	1	3	2	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/28/2025 19:36	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:36	40603	PIGR_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
1/28/2025 19:36	65005	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:36	58401	MORO_T1	0	0	0	0	0	0	-2.04	-2.1	2	2	0	1200	1200	0
1/28/2025 19:36	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:36	65001	NEFF_T2	177	216	39	0.19	0.26	0.07	0	0	0	0	0	0	0	0
1/28/2025 19:36	61703	ELIZ_T1	0	0	0	0	0	0	-1.68	-1.64	2	2	0	1800	1800	0
1/28/2025 19:36	14601	SWHI_T1	0	0	0	0	0	0	-0.71	-0.74	0	0	0	0	0	0
1/28/2025 19:36	60101	COCA_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
1/28/2025 19:36	65003	NEFF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/28/2025 19:36	52403	GRPA_T2	1	3	2	0.6	0.4	-0.2	-1.16	-1.61	0	0	0	0	0	0
1/28/2025 19:36	60502	NMAN_T2	0	0	0	0	0	0	-0.27	-0.35	0	0	0	0	0	0
1/28/2025 19:37	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:37	44902	SCOT_T2	724	741	17	0.67	0.71	0.04	-0.93	-0.92	0	0	0	0	0	0
1/28/2025 19:37	60801	BUCK_T1	12	1	-11	0.12	0.1	-0.02	-0.21	-0.22	0	0	0	0	0	0
1/28/2025 19:37	59101	WALK_T2	1	1	0	2.6	3.1	0.5	0.71	0.87	1	1	0	600	600	0
1/28/2025 19:37	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:37	40601	PIGR_T1	6	12	6	0.15	0.18	0.03	-0.07	-0.12	0	0	0	0	0	0
1/28/2025 19:37	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	-2.34	-2.32	2	2	0	1200	1200	0
1/28/2025 19:37	63602	LETO_T1	0	0	0	0	0	0	-0.39	-0.42	0	0	0	0	0	0
1/28/2025 19:37	67402	WAKE_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
1/28/2025 19:37	43302	WATS_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/28/2025 19:37	40602	PIGR_T1	1	3	2	0.4	0	-0.4	0.4	0.44	0	0	0	0	0	0
1/28/2025 19:37	61301	EARL_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
1/28/2025 19:37	51204	MTON_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
1/28/2025 19:37	57203	ROSS_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
1/28/2025 19:37	52001	LING_T1	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
1/28/2025 19:37	60803	BUCK_T1	11	4	-7	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
1/28/2025 19:37	41301	FISH_T1	3	3	0	1.4	1.63	0.23	-0.25	-0.27	0	0	0	0	0	0
1/28/2025 19:37	58402	MORO_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
1/28/2025 19:37	44901	SCOT_T2	171	161	-10	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
1/28/2025 19:37	43304	WATS_T2	0	0	0	0	0	0	0.23	0.22	1	1	0	600	600	0
1/28/2025 19:37	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.05	1	1	0	600	600	0
1/28/2025 19:37	40603	PIGR_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
1/28/2025 19:37	60902	DONG_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
1/28/2025 19:37	44905	SCOT_T1	4	5	1	0.43	0	-0.43	0	0	0	0	0	0	0	0
1/28/2025 19:38	42903	MIDD_T2	2	2	0	1.15	1.05	-0.1	0	0	0	0	0	0	0	0
1/28/2025 19:38	46501	LOHA_T1	1	4	3	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/28/2025 19:38	42902	MIDD_T2	3	1	-2	0.77	1	0.23	-0.53	-0.3	0	0	0	0	0	0
1/28/2025 19:38	61304	EARL_T1	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
1/28/2025 19:38	40201	BEGA_T2	3	7	4	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
1/28/2025 19:38	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:38	55105	WERT_T1	0	0	0	0	0	0	-0.48	-0.4	1	1	0	900	900	0
1/28/2025 19:38	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:38	46102	MACI_T1	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
1/28/2025 19:38	46506	LOHA_T1	4	4	0	2.23	2.28	0.05	0	0	0	0	0	0	0	0
1/28/2025 19:38	44901	SCOT_T2	171	161	-10	0.3	0.29	-0.01	-0.38	-0.37	0	0	0	0	0	0
1/28/2025 19:38	58402	MORO_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
1/28/2025 19:38	57201	ROSS_T1	0	0	0	0	0	0	-1.13	-0.94	0	0	0	0	0	0
1/28/2025 19:38	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:38	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
1/28/2025 19:38	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:38	44902	SCOT_T2	724	741	17	0.67	0.71	0.04	-0.93	-0.92	0	0	0	0	0	0
1/28/2025 19:38	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.05	1	1	0	600	600	0
1/28/2025 19:38	61802	EELI_T2	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
1/28/2025 19:38	61801	EELI_T2	2	4	2	0.45	0.48	0.03	-1.94	-1.92	2	2	0	1200	1200	0
1/28/2025 19:38	64503	LAVI_T1	0	0	0	0	0	0	-0.45	-0.51	1	1	0	1200	1200	0
1/28/2025 19:38	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
1/28/2025 19:39	67402	WAKE_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
1/28/2025 19:39	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/28/2025 19:39	42501	ALTA_T2	0	0	0	0	0	0	0.08	0.06	1	1	0	600	600	0
1/28/2025 19:39	61304	EARL_T1	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
1/28/2025 19:39	52403	GRPA_T2	1	3	2	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
1/28/2025 19:39	54603	SUMM_T2	0	0	0	0	0	0	-0.31	-0.35	1	1	0	900	900	0
1/28/2025 19:39	54601	SUMM_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/28/2025 19:39	61702	ELIZ_T2	0	0	0	0	0	0	-0.74	-0.75	1	1	0	300	300	0
1/28/2025 19:39	42503	ALTA_T2	4	4	0	0.53	0	-0.53	0	0	0	0	0	0	0	0
1/28/2025 19:39	66302	MCGO_T2	0	0	0	0	0	0	-3.05	-3.03	2	2	0	1200	1200	0
1/28/2025 19:39	52402	GRPA_T2	1	3	2	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/28/2025 19:39	61801	EELI_T2	2	4	2	0.45	0.48	0.03	-0.97	-0.96	1	1	0	600	600	0
1/28/2025 19:39	63601	LETO_T1	0	0	0	0	0	0	0.82	0.91	1	1	0	900	900	0
1/28/2025 19:39	64101	REFR_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
1/28/2025 19:39	66303	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/28/2025 19:40	61801	EELI_T2	2	4	2	0.45	0.48	0.03	-0.97	-0.96	1	1	0	600	600	0
1/28/2025 19:40	64101	REFR_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
1/28/2025 19:40	61802	EELI_T2	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
1/28/2025 19:40	40101	HUNT_T2	47	63	16	0.75	0.99	0.24	-0.76	-0.74	0	0	0	0	0	0
1/28/2025 19:40	44801	EDAN_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
1/28/2025 19:40	65702	RVIL_T2	0	0	0	0	0	0	-1.8	-1.8	0	0	0	0	0	0
1/28/2025 19:40	61702	ELIZ_T2	0	0	0	0	0	0	-0.74	-0.75	1	1	0	300	300	0
1/28/2025 19:40	61703	ELIZ_T1	0	0	0	0	0	0	-0.82	-0.9	1	1	0	900	900	0
1/28/2025 19:40	10102	ALLE_T2	44	42	-2	2.37	2.96	0.59	0	0	0	0	0	0	0	0
1/28/2025 19:40	66503	SMAN_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
1/28/2025 19:40	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
1/28/2025 19:40	61701	ELIZ_T1	1	1	0	4.9	5.3	0.4	0	0	0	0	0	0	0	0
1/28/2025 19:40	63602	LETO_T1	0	0	0	0	0	0	-0.39	-0.42	0	0	0	0	0	0
1/28/2025 19:40	60201	ATGL_T2	72	66	-6	0.35	0.31	-0.04	-0.07	-0.05	0	0	0	0	0	0
1/28/2025 19:40	55001	NEWP_T1	0	0	0	0	0	0	-0.78	-0.81	1	1	0	600	600	0
1/28/2025 19:40	66504	SMAN_T2	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
1/28/2025 19:40	61304	EARL_T1	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
1/28/2025 19:40	10206	ALLE_T2	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
1/28/2025 19:40	66505	SMAN_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
1/28/2025 19:40	55002	NEWP_T1	4	5	1	0.8	0.42	-0.38	0	0	0	0	0	0	0	0
1/28/2025 19:40	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:40	61803	EELI_T2	0	0	0	0	0	0	0.8	0.83	0	0	0	0	0	0
1/28/2025 19:40	54504	ENOL_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
1/28/2025 19:41	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:41	61301	EARL_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
1/28/2025 19:41	54601	SUMM_T2	0	1	1	0	0.2	0.2	-1.74	-1.72	2	2	0	2100	2100	0
1/28/2025 19:41	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:41	58202	NEWV_T1	0	0	0	0	0	0	0.02	0.05	0	0	0	0	0	0
1/28/2025 19:41	50502	MECH_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
1/28/2025 19:41	66505	SMAN_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
1/28/2025 19:41	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
1/28/2025 19:41	54504	ENOL_T2	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
1/28/2025 19:41	44302	BEAV_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
1/28/2025 19:41	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:41	65702	RVIL_T2	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
1/28/2025 19:41	50506	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:41	63601	LETO_T1	0	0	0	0	0	0	0.82	0.91	1	1	0	900	900	0
1/28/2025 19:41	50501	MECH_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
1/28/2025 19:42	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:42	61701	ELIZ_T1	1	1	0	4.9	5.3	0.4	0	0	0	0	0	0	0	0
1/28/2025 19:42	66302	MCGO_T2	0	0	0	0	0	0	-1.53	-1.52	1	1	0	600	600	0
1/28/2025 19:42	54502	ENOL_T2	0	0	0	0	0	0	-1.92	-1.92	1	1	0	600	600	0
1/28/2025 19:42	51202	MTON_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
1/28/2025 19:42	58202	NEWV_T1	0	0	0	0	0	0	0.02	-0.05	0	0	0	0	0	0
1/28/2025 19:42	64101	REFR_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
1/28/2025 19:42	66303	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/28/2025 19:42	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
1/28/2025 19:42	59101	WALK_T2	1	1	0	2.6	3.1	0.5	0.71	0.87	1	1	0	600	600	0
1/28/2025 19:42	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:42	64904	MILL_T1	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
1/28/2025 19:43	64305	LINC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:43	64802	MONE_T2	3	1	-2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/28/2025 19:43	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:43	44302	BEAV_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
1/28/2025 19:44	64101	REFR_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
1/28/2025 19:45	61802	EELI_T2	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
1/28/2025 19:45	61801	EELI_T2	2	6	4	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
1/28/2025 19:56	14802	TREI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/28/2025 19:56	14801	TREI_T2	1	0	-1	0.9	0	-0.9	0.71	0.69	0	0	0	0	0	0
1/28/2025 20:10	40702	FFLD_T1	0	0	0	0	0	0	-0.33	-0.22	0	0	0	0	0	0
1/28/2025 21:08	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
1/28/2025 21:08	54502	ENOL_T2	1	1	0	0.1	0.1	0	-1.91	-1.9	1	1	0	600	600	0
1/28/2025 21:28	11203	ELHE_T1	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
1/29/2025 7:54	13704	SCHN_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
1/29/2025 7:58	11104	EGYP_T1	8	5	-3	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
1/29/2025 7:58	11102	EGYP_T1	6	7	1	0.43	0	-0.43	0	0	0	0	0	0	0	0
1/29/2025 8:02	62604	ENGL_T1	4	1	-3	0.2	0.2	0	0	0	0	0	0	0	0	0
1/29/2025 8:02	62607	ENGL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/29/2025 8:02	62606	ENGL_T1	76	90	14	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
1/29/2025 8:02	62605	ENGL_T1	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
1/29/2025 8:06	53802	MBRG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 8:07	67002	STHI_T2	27	195	168	0.13	0.19	0.06	0.7	0.71	0	0	0	0	0	0
1/29/2025 8:07	67001	STHI_T2	153	389	236	0.12	0.24	0.12	0	0	0	0	0	0	0	0
1/29/2025 8:10	67002	STHI_T2	27	195	168	0.13	0.19	0.06	0.7	0.71	0	0	0	0	0	0
1/29/2025 8:10	67001	STHI_T2	153	389	236	0.12	0.24	0.12	0	0	0	0	0	0	0	0
1/29/2025 8:18	64901	MILL_T1	3	31	28	0.1	0.16	0.06	0	0	0	0	0	0	0	0
1/29/2025 8:18	64904	MILL_T1	0	0	0	0	0	0	-0.36	-0.21	0	0	0	0	0	0
1/29/2025 8:24	13302	ORVI_T2	20	29	9	0.23	0.25	0.02	0	0	0	0	0	0	0	0
1/29/2025 8:26	45501	DERR_T2	0	0	0	0	0	0	0.39	0.36	2	2	0	1800	1800	0
1/29/2025 8:28	11104	EGYP_T1	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/29/2025 8:28	11103	EGYP_T1	0	0	0	0	0	0	-0.76	-0.81	0	0	0	0	0	0
1/29/2025 8:28	45501	DERR_T2	0	0	0	0	0	0	0.39	0.36	2	2	0	1800	1800	0
1/29/2025 8:28	16103	BING_T2	0	0	0	0	0	0	-1.54	-1.58	1	1	0	900	900	0
1/29/2025 8:29	46206	DANV_T2	2	0	-2	0.2	0	-0.2	2.72	2.67	1	1	0	1200	1200	0
1/29/2025 8:29	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/29/2025 8:30	62105	ELAN_T1	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
1/29/2025 8:30	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 8:30	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 8:30	44502	HAMI_T2	1	1	0	2.5	2.8	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/29/2025 8:30	46206	DANV_T2	0	0	0	0	0	0	2.72	2.67	1	1	0	1200	1200	0
1/29/2025 8:32	54502	ENOL_T2	0	1	1	0	0.7	0.7	-1.98	-1.99	1	1	0	600	600	0
1/29/2025 8:32	23401	HONE_T2	1	4	3	0.7	0.6	-0.1	0.16	0.19	0	0	0	0	0	0
1/29/2025 8:32	54503	ENOL_T2	0	6	6	0	0.22	0.22	0	0	0	0	0	0	0	0
1/29/2025 8:32	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 8:32	54505	ENOL_T2	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
1/29/2025 8:32	44502	HAMI_T2	1	1	0	2.5	2.8	0.3	0	0	0	0	0	0	0	0
1/29/2025 8:33	53601	DALM_T2	1	1	0	1	1	0	-1.08	-1.02	1	1	0	900	900	0
1/29/2025 8:34	55002	NEWP_T1	5	7	2	0.7	0.9	0.2	-0.19	-0.19	0	0	0	0	0	0
1/29/2025 8:36	53502	EVIL_T2	7	11	4	0.39	0.28	-0.11	0.13	0.03	2	2	0	1200	1200	0
1/29/2025 8:36	53501	EVIL_T2	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
1/29/2025 8:43	61001	DONV_T1	0	0	0	0	0	0	-0.17	-0.24	0	0	0	0	0	0
1/29/2025 8:43	54505	ENOL_T2	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
1/29/2025 8:43	54503	ENOL_T2	0	6	6	0	0.22	0.22	0	0	0	0	0	0	0	0
1/29/2025 8:43	54502	ENOL_T2	0	1	1	0	0.7	0.7	-1.99	-2.02	1	1	0	600	600	0
1/29/2025 8:43	61306	EARL_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
1/29/2025 8:43	54506	ENOL_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
1/29/2025 8:43	54504	ENOL_T2	0	0	0	0	0	0	-0.99	-0.32	1	1	0	600	600	0
1/29/2025 8:44	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 8:44	41801	GOCI_T2	3	3	0	4.47	0.75	-3.72	0	0	0	0	0	0	0	0
1/29/2025 8:44	62105	ELAN_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
1/29/2025 8:44	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 8:45	41801	GOCI_T2	3	3	0	3.67	0.2	-3.47	0	0	0	0	0	0	0	0
1/29/2025 8:46	11101	EGYP_T1	0	0	0	0	0	0	-0.69	0.57	1	0	-1	1200	0	-1200
1/29/2025 8:46	11104	EGYP_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
1/29/2025 8:48	54502	ENOL_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
1/29/2025 8:48	54504	ENOL_T2	0	0	0	0	0	0	-0.99	-0.32	1	1	0	600	600	0
1/29/2025 8:48	54503	ENOL_T2	4	6	2	0.1	0.22	0.12	0	0	0	0	0	0	0	0
1/29/2025 8:48	54505	ENOL_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
1/29/2025 8:53	46801	HEPB_T2	3	3	0	0.5	0.67	0.17	0	0	0	0	0	0	0	0
1/29/2025 8:53	61001	DONV_T1	0	0	0	0	0	0	-0.24	-0.28	0	0	0	0	0	0
1/29/2025 8:53	46803	HEPB_T2	1	2	1	0.1	0.2	0.1	0.56	0.55	0	0	0	0	0	0
1/29/2025 8:57	44302	BEAV_T2	0	37	37	0	0.22	0.22	0	0	0	0	0	0	0	0
1/29/2025 8:57	44301	BEAV_T2	1	1	0	0.5	0.1	-0.4	-0.27	-0.93	2	2	0	1500	1500	0
1/29/2025 8:59	62106	ELAN_T1	0	0	0	0	0	0	0.98	1.1	0	0	0	0	0	0
1/29/2025 8:59	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 8:59	62105	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 8:59	40701	FFLD_T1	5	26	21	0.1	0.26	0.16	0	0	0	0	0	0	0	0
1/29/2025 8:59	40702	FFLD_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
1/29/2025 8:59	40703	FFLD_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/29/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
1/29/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
1/29/2025 9:00	64201	KINZ_T1	0	6	6	0	0.16	0.16	0	0	0	0	0	0	0	0
1/29/2025 9:00	64203	KINZ_T1	0	0	0	0	0	0	0.24	0.14	1	1	0	600	600	0
1/29/2025 9:00	64204	KINZ_T1	1	12	11	0.9	0.35	-0.55	0	0	0	0	0	0	0	0
1/29/2025 9:00	64202	KINZ_T1	3	3	0	0.47	0.27	-0.2	0	0	0	0	0	0	0	0
1/29/2025 9:02	64201	KINZ_T1	0	6	6	0	0.16	0.16	0	0	0	0	0	0	0	0
1/29/2025 9:02	61503	EPET_T1	0	0	0	0	0	0	-1.08	-1.05	0	0	0	0	0	0
1/29/2025 9:02	64202	KINZ_T1	3	3	0	0.47	0.27	-0.2	0	0	0	0	0	0	0	0
1/29/2025 9:02	64204	KINZ_T1	1	12	11	0.9	0.35	-0.55	0	0	0	0	0	0	0	0
1/29/2025 9:02	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 9:06	66903	SHIL_T2	0	0	0	0	0	0	-1.2	-1.18	0	0	0	0	0	0
1/29/2025 9:07	66903	SHIL_T2	0	0	0	0	0	0	-1.18	-1.18	0	0	0	0	0	0
1/29/2025 9:08	66903	SHIL_T2	0	0	0	0	0	0	-1.18	-1.18	0	0	0	0	0	0
1/29/2025 9:09	46004	BERW_T2	0	0	0	0	0	0	-0.67	-0.58	0	0	0	0	0	0
1/29/2025 9:09	46002	BERW_T2	0	0	0	0	0	0	-1.23	-1.28	1	1	0	900	900	0
1/29/2025 9:11	66903	SHIL_T2	0	0	0	0	0	0	-1.18	-1.18	0	0	0	0	0	0
1/29/2025 9:13	45501	DERR_T2	0	0	0	0	0	0	0.24	0.29	2	2	0	1800	1800	0
1/29/2025 9:14	61304	EARL_T1	0	0	0	0	0	0	0.08	0	0	0	0	0	0	0
1/29/2025 9:14	54505	ENOL_T2	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
1/29/2025 9:14	54502	ENOL_T2	1	1	0	0.7	0.7	0	-5.97	-6.17	3	3	0	1800	1800	0
1/29/2025 9:14	54503	ENOL_T2	6	0	-6	0.22	0	-0.22	0	0	0	0	0	0	0	0
1/29/2025 9:14	40802	EXCH_T2	0	0	0	0	0	0	-0.53	-0.12	0	0	0	0	0	0
1/29/2025 9:14	46004	BERW_T2	0	0	0	0	0	0	-0.67	-0.58	0	0	0	0	0	0
1/29/2025 9:15	40802	EXCH_T2	0	0	0	0	0	0	-0.53	-0.12	0	0	0	0	0	0
1/29/2025 9:15	54503	ENOL_T2	0	0	0	0	0	0	-0.37	-0.38	1	1	0	600	600	0
1/29/2025 9:15	46802	HEPB_T1	1	1	0	1.9	2	0.1	-1.29	-1.26	0	0	0	0	0	0
1/29/2025 9:15	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/29/2025 9:15	54506	ENOL_T2	0	0	0	0	0	0	0.34	0.27	1	0	-1	600	0	-600
1/29/2025 9:15	54505	ENOL_T2	1	1	0	1.2	1.2	0	-2.29	-2.38	2	2	0	1200	1200	0
1/29/2025 9:16	22601	KIMB_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/29/2025 9:16	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/29/2025 9:16	54505	ENOL_T2	1	1	0	1.2	1.2	0	-2.29	-2.38	2	2	0	1200	1200	0
1/29/2025 9:16	22602	KIMB_T1	1	1	0	0.1	0.2	0.1	0.13	0.26	0	0	0	0	0	0
1/29/2025 9:16	54506	ENOL_T2	0	0	0	0	0	0	0.34	0.27	1	0	-1	600	0	-600
1/29/2025 9:16	45501	DERR_T2	0	0	0	0	0	0	0.24	0.29	2	2	0	1800	1800	0
1/29/2025 9:17	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/29/2025 9:17	54505	ENOL_T2	1	1	0	1.2	1.2	0	-1.15	-1.19	1	1	0	600	600	0
1/29/2025 9:18	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/29/2025 9:18	53502	EVIL_T2	4	10	6	0.33	0.57	0.24	0.14	0.04	4	4	0	2400	2400	0
1/29/2025 9:18	54505	ENOL_T2	1	1	0	1.2	1.2	0	-1.15	-1.19	1	1	0	600	600	0
1/29/2025 9:18	53501	EVIL_T2	2	2	0	0.95	0.85	-0.1	0	0	0	0	0	0	0	0
1/29/2025 9:19	43202	MVIL_T2	47	60	13	0.27	0.72	0.45	-0.54	-0.53	0	0	0	0	0	0
1/29/2025 9:19	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/29/2025 9:19	54505	ENOL_T2	1	1	0	1.2	1.2	0	-1.15	-1.19	1	1	0	600	600	0
1/29/2025 9:20	53601	DALM_T2	0	1	1	0	0.3	0.3	-0.78	-0.39	1	1	0	900	900	0
1/29/2025 9:21	65205	PRIN_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
1/29/2025 9:21	65202	PRIN_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
1/29/2025 9:25	29401	BELT_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
1/29/2025 9:25	29402	BELT_T1	1	2	1	6.5	3.8	-2.7	0	0	0	0	0	0	0	0
1/29/2025 9:26	29401	BELT_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
1/29/2025 9:26	29402	BELT_T1	1	2	1	6.5	3.8	-2.7	0	0	0	0	0	0	0	0
1/29/2025 9:29	40703	FFLD_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/29/2025 9:29	40702	FFLD_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
1/29/2025 9:29	40201	BEGA_T2	6	5	-1	0.38	0.4	0.02	0	0	0	0	0	0	0	0
1/29/2025 9:29	40701	FFLD_T1	26	22	-4	0.26	0.18	-0.08	0	0	0	0	0	0	0	0
1/29/2025 9:30	40702	FFLD_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/29/2025 9:30	40701	FFLD_T1	21	26	5	0.17	0.23	0.06	0	0	0	0	0	0	0	0
1/29/2025 9:30	40703	FFLD_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/29/2025 9:32	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
1/29/2025 9:32	46504	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/29/2025 9:32	46506	LOHA_T1	3	3	0	4.03	4.47	0.44	0	0	0	0	0	0	0	0
1/29/2025 9:32	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 9:33	46504	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/29/2025 9:33	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
1/29/2025 9:33	46506	LOHA_T1	3	3	0	4.03	4.47	0.44	0	0	0	0	0	0	0	0
1/29/2025 9:33	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 9:35	46501	LOHA_T1	0	1	1	0	0	0	-0.11	-0.07	1	1	0	1200	1200	0
1/29/2025 9:35	46504	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/29/2025 9:35	46506	LOHA_T1	3	3	0	4.03	4.47	0.44	0	0	0	0	0	0	0	0
1/29/2025 9:36	13704	SCHN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
1/29/2025 9:36	13701	SCHN_T2	0	0	0	0	0	0	0	-0.02	1	1	0	600	600	0
1/29/2025 9:37	55002	NEWP_T1	5	7	2	0.84	1.01	0.17	-0.2	-0.19	0	0	0	0	0	0
1/29/2025 9:39	44302	BEAV_T2	3	10	7	0.3	0.28	-0.02	0.25	0.24	0	0	0	0	0	0
1/29/2025 9:39	29401	BELT_T1	1	23	22	0.1	0.16	0.06	0	0	0	0	0	0	0	0
1/29/2025 9:39	29402	BELT_T1	1	2	1	7.1	3.8	-3.3	0	0	0	0	0	0	0	0
1/29/2025 9:39	44301	BEAV_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/29/2025 9:40	44301	BEAV_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/29/2025 9:40	60201	ATGL_T2	5	5	0	0.22	0.4	0.18	0.88	0.92	0	0	0	0	0	0
1/29/2025 9:40	44302	BEAV_T2	3	10	7	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
1/29/2025 9:41	44302	BEAV_T2	3	10	7	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
1/29/2025 9:41	44301	BEAV_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/29/2025 9:42	44301	BEAV_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/29/2025 9:42	44302	BEAV_T2	3	10	7	0.3	0.28	-0.02	0.25	0.24	0	0	0	0	0	0
1/29/2025 9:42	29401	BELT_T1	1	23	22	0.1	0.16	0.06	0	0	1	1	0	900	900	0
1/29/2025 9:42	16102	BING_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/29/2025 9:42	16101	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/29/2025 9:42	29402	BELT_T1	1	2	1	7.1	3.8	-3.3	0	0	0	0	0	0	0	0
1/29/2025 9:42	16103	BING_T2	0	0	0	0	0	0	-1.62	-1.6	1	1	0	900	900	0
1/29/2025 9:43	40101	HUNT_T2	5	1	-4	0.32	0.1	-0.22	-0.8	-0.79	0	0	0	0	0	0
1/29/2025 9:44	52403	GRPA_T2	7	14	7	0.41	0.41	0	-0.57	-0.6	0	0	0	0	0	0
1/29/2025 9:44	52402	GRPA_T2	3	5	2	0.47	0.38	-0.09	0	0	0	0	0	0	0	0
1/29/2025 9:44	52401	GRPA_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
1/29/2025 9:46	62105	ELAN_T1	0	5	5	0	0.1	0.1	0.41	0.44	0	0	0	0	0	0
1/29/2025 9:46	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/29/2025 9:46	46504	LOHA_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/29/2025 9:46	46506	LOHA_T1	3	3	0	4.47	4.2	-0.27	0	0	0	0	0	0	0	0
1/29/2025 9:46	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/29/2025 9:46	46501	LOHA_T1	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
1/29/2025 9:46	62102	ELAN_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
1/29/2025 9:46	44502	HAMI_T2	1	1	0	2.8	2.9	0.1	0	0	0	0	0	0	0	0
1/29/2025 9:46	44505	HAMI_T2	0	3	3	0	0	0	-0.01	-0.01	0	0	0	0	0	0
1/29/2025 9:46	46502	LOHA_T1	0	0	0	0	0	0	-1.33	-1.34	1	1	0	1200	1200	0
1/29/2025 9:46	62106	ELAN_T1	0	0	0	0	0	0	1.09	1.1	0	0	0	0	0	0
1/29/2025 9:47	44505	HAMI_T2	0	3	3	0	0	0	-0.01	-0.01	0	0	0	0	0	0
1/29/2025 9:47	58401	MORO_T1	0	0	0	0	0	0	-0.98	-0.93	1	1	0	600	600	0
1/29/2025 9:47	44502	HAMI_T2	1	1	0	2.8	2.9	0.1	0	0	0	0	0	0	0	0
1/29/2025 9:47	52402	GRPA_T2	3	5	2	0.47	0.52	0.05	0	0	0	0	0	0	0	0
1/29/2025 9:47	52401	GRPA_T2	2	1	-1	3.95	0.6	-3.35	0	0	0	0	0	0	0	0
1/29/2025 9:47	52403	GRPA_T2	10	12	2	0.56	0.38	-0.18	-0.57	-0.6	0	0	0	0	0	0
1/29/2025 9:48	22601	KIMB_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
1/29/2025 9:48	22602	KIMB_T1	1	0	-1	0.2	0	-0.2	0.15	0.16	0	0	0	0	0	0
1/29/2025 9:49	43202	MVIL_T2	58	54	-4	0.72	0.46	-0.26	-1.1	-1.08	0	0	0	0	0	0
1/29/2025 9:49	44505	HAMI_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 9:49	44502	HAMI_T2	1	1	0	2.8	2.9	0.1	0	0	0	0	0	0	0	0
1/29/2025 9:50	58401	MORO_T1	0	0	0	0	0	0	-0.98	-0.93	1	1	0	600	600	0
1/29/2025 9:51	58401	MORO_T1	0	0	0	0	0	0	-0.93	-0.97	1	1	0	600	600	0
1/29/2025 9:51	43202	MVIL_T2	58	54	-4	0.72	0.46	-0.26	-0.55	-0.54	0	0	0	0	0	0
1/29/2025 9:52	48301	ORWI_T1	2	2	0	5.1	5.3	0.2	-0.5	-0.61	1	1	0	900	900	0
1/29/2025 9:55	22001	BOHE_T1	0	92	92	0	0.23	0.23	0	0	0	0	0	0	0	0
1/29/2025 9:55	22002	BOHE_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
1/29/2025 9:55	22003	BOHE_T1	3	136	133	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
1/29/2025 9:56	22002	BOHE_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/29/2025 9:56	22003	BOHE_T1	3	136	133	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
1/29/2025 9:56	22001	BOHE_T1	0	92	92	0	0.23	0.23	0	0	0	0	0	0	0	0
1/29/2025 9:57	61001	DONV_T1	1	1	0	0.2	0.6	0.4	-0.21	-0.27	0	0	0	0	0	0
1/29/2025 9:58	61001	DONV_T1	1	1	0	0.2	0.6	0.4	-0.42	-0.54	0	0	0	0	0	0
1/29/2025 10:00	14801	TREI_T2	2	1	-1	0.4	0.1	-0.3	0.52	0.5	0	0	0	0	0	0
1/29/2025 10:02	64203	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/29/2025 10:02	64201	KINZ_T1	5	7	2	0.16	0.26	0.1	-0.23	-0.25	3	3	0	1500	1500	0
1/29/2025 10:02	64202	KINZ_T1	2	5	3	0.2	0.38	0.18	0	0	0	0	0	0	0	0
1/29/2025 10:02	64204	KINZ_T1	29	66	37	0.53	0.56	0.03	0	0	0	0	0	0	0	0
1/29/2025 10:03	64204	KINZ_T1	29	66	37	0.53	0.56	0.03	0	0	0	0	0	0	0	0
1/29/2025 10:03	64203	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/29/2025 10:03	64202	KINZ_T1	2	5	3	0.2	0.38	0.18	0	0	0	0	0	0	0	0
1/29/2025 10:03	64201	KINZ_T1	5	7	2	0.16	0.26	0.1	-0.23	-0.25	3	3	0	1500	1500	0
1/29/2025 10:04	64204	KINZ_T1	29	66	37	0.53	0.56	0.03	0	0	0	0	0	0	0	0
1/29/2025 10:04	64203	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/29/2025 10:04	64201	KINZ_T1	5	7	2	0.16	0.26	0.1	0	0	0	0	0	0	0	0
1/29/2025 10:04	64202	KINZ_T1	2	5	3	0.2	0.38	0.18	0	0	0	0	0	0	0	0
1/29/2025 10:04	43202	MVIL_T2	54	50	-4	0.45	0.35	-0.1	-0.54	-0.52	0	0	0	0	0	0
1/29/2025 10:08	64101	REFR_T1	1	3	2	0.1	0.3	0.2	-0.04	-0.11	0	0	0	0	0	0
1/29/2025 10:08	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 10:12	55401	SHER_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
1/29/2025 10:12	55405	SHER_T1	1	6	5	0.1	0.12	0.02	0	0	0	0	0	0	0	0
1/29/2025 10:14	53902	HALI_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
1/29/2025 10:14	53903	HALI_T2	3	3	0	0.83	0.9	0.07	0	0	0	0	0	0	0	0
1/29/2025 10:14	53901	HALI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/29/2025 10:16	53903	HALI_T2	3	2	-1	0.9	1.15	0.25	-0.07	-0.07	0	0	0	0	0	0
1/29/2025 10:16	53901	HALI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/29/2025 10:16	63501	HEID_TBK1-2	2	5	3	0.2	0.16	-0.04	0.18	0.17	1	1	0	900	900	0
1/29/2025 10:16	53902	HALI_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
1/29/2025 10:18	53901	HALI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
1/29/2025 10:18	64904	MILL_T1	0	0	0	0	0	0	0.58	0.51	0	0	0	0	0	0
1/29/2025 10:18	63501	HEID_TBK1-2	2	5	3	0.2	0.16	-0.04	0.18	0.17	1	1	0	900	900	0
1/29/2025 10:18	53903	HALI_T2	3	2	-1	0.9	1.15	0.25	-0.07	-0.07	0	0	0	0	0	0
1/29/2025 10:18	53902	HALI_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
1/29/2025 10:20	41902	REED_T1	1	0	-1	0.1	0	-0.1	0.28	0.3	0	0	0	0	0	0
1/29/2025 10:23	41902	REED_T1	1	0	-1	0.1	0	-0.1	0.3	0.24	0	0	0	0	0	0
1/29/2025 10:24	41902	REED_T1	1	0	-1	0.1	0	-0.1	0.59	0.49	0	0	0	0	0	0
1/29/2025 10:26	60801	BUCK_T1	25	44	19	0.27	0.34	0.07	0.09	0.15	0	0	0	0	0	0
1/29/2025 10:26	10801	CHHI_T1	1	2	1	0.5	0.45	-0.05	-0.72	-0.75	1	1	0	900	900	0
1/29/2025 10:26	60803	BUCK_T1	21	24	3	0.55	0.63	0.08	-0.53	-0.53	1	1	0	600	600	0
1/29/2025 10:27	60201	ATGL_T2	6	7	1	0.2	0.29	0.09	0.87	0.9	0	0	0	0	0	0
1/29/2025 10:28	60803	BUCK_T1	21	24	3	0.55	0.63	0.08	-0.53	-0.53	1	1	0	600	600	0
1/29/2025 10:28	10903	COOP_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/29/2025 10:28	60801	BUCK_T1	25	44	19	0.27	0.34	0.07	0.09	0.15	0	0	0	0	0	0
1/29/2025 10:29	41301	FISH_T1	3	3	0	1.93	2.3	0.37	-0.27	-0.27	0	0	0	0	0	0
1/29/2025 10:29	60803	BUCK_T1	21	24	3	0.55	0.63	0.08	-1.06	-1.06	2	2	0	1200	1200	0
1/29/2025 10:29	60801	BUCK_T1	25	44	19	0.27	0.34	0.07	0.18	0.3	0	0	0	0	0	0
1/29/2025 10:30	11203	ELHE_T1	0	0	0	0	0	0	0.92	0.89	0	0	0	0	0	0
1/29/2025 10:30	60803	BUCK_T1	22	28	6	0.61	0.68	0.07	-0.53	-0.53	1	1	0	600	600	0
1/29/2025 10:30	60801	BUCK_T1	35	55	20	0.31	0.34	0.03	0.09	0.15	0	0	0	0	0	0
1/29/2025 10:33	52403	GRPA_T2	14	24	10	0.47	0.56	0.09	-0.61	-0.57	0	0	0	0	0	0
1/29/2025 10:33	61502	EPET_T1	1	1	0	0.3	0.4	0.1	-1.23	-1.27	0	0	0	0	0	0
1/29/2025 10:33	52402	GRPA_T2	3	9	6	0.63	0.47	-0.16	0	0	0	0	0	0	0	0
1/29/2025 10:33	52401	GRPA_T2	3	3	0	0.33	0.43	0.1	-0.69	-0.71	0	0	0	0	0	0
1/29/2025 10:34	54503	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 10:34	54502	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
1/29/2025 10:34	54505	ENOL_T2	1	2	1	1	0.65	-0.35	0	0	0	0	0	0	0	0
1/29/2025 10:35	57205	ROSS_T1	1	1	0	0.2	0.9	0.7	0.12	0.14	0	0	0	0	0	0
1/29/2025 10:36	16901	MECK_T1	168	153	-15	0.49	0.47	-0.02	0	0	0	0	0	0	0	0
1/29/2025 10:36	16902	MECK_T1	240	241	1	0.45	0.42	-0.03	0	0	0	0	0	0	0	0
1/29/2025 10:36	11203	ELHE_T1	0	0	0	0	0	0	0.89	0.9	0	0	0	0	0	0
1/29/2025 10:36	66902	SHIL_T2	0	0	0	0	0	0	-1	-1.04	0	0	0	0	0	0
1/29/2025 10:39	63501	HEID_TBK1-2	0	7	7	0	0.23	0.23	0	0	0	0	0	0	0	0
1/29/2025 10:40	15103	UPHA_T2	1	2	1	0.9	0.4	-0.5	0.44	0.46	0	0	0	0	0	0
1/29/2025 10:40	15104	UPHA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/29/2025 10:40	66902	SHIL_T2	0	0	0	0	0	0	-2.08	-2.06	0	0	0	0	0	0
1/29/2025 10:42	11904	ETEX_T2	0	0	0	0	0	0	-0.75	-0.78	0	0	0	0	0	0
1/29/2025 10:42	10801	CHHI_T1	2	1	-1	0.35	0.8	0.45	-0.75	-0.73	1	1	0	900	900	0
1/29/2025 10:42	42701	AUGU_T1	1	17	16	0.9	1.4	0.5	0	0	0	0	0	0	0	0
1/29/2025 10:44	60902	DONG_T2	1	2	1	0.2	0.1	-0.1	0.68	0.89	0	0	0	0	0	0
1/29/2025 10:44	11901	ETEX_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
1/29/2025 10:44	54502	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
1/29/2025 10:44	60901	DONG_T2	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
1/29/2025 10:44	42701	AUGU_T1	1	17	16	0.9	1.4	0.5	0	0	0	0	0	0	0	0
1/29/2025 10:44	54505	ENOL_T2	1	2	1	1	0.65	-0.35	-1.29	-1.28	1	1	0	600	600	0
1/29/2025 10:44	60904	DONG_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
1/29/2025 10:45	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/29/2025 10:45	54501	ENOL_T2	0	2	2	0	0.1	0.1	0.18	0.24	0	0	0	0	0	0
1/29/2025 10:45	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 10:45	54505	ENOL_T2	1	2	1	1	0.8	-0.2	0	0	0	0	0	0	0	0
1/29/2025 10:46	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 10:46	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/29/2025 10:46	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 10:46	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/29/2025 10:46	54505	ENOL_T2	1	2	1	1	0.8	-0.2	-1.29	-1.28	1	1	0	600	600	0
1/29/2025 10:47	54502	ENOL_T2	1	1	0	0.6	0.6	0	-2.04	-1.96	1	1	0	600	600	0
1/29/2025 10:47	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/29/2025 10:47	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 10:47	54505	ENOL_T2	1	2	1	1	0.8	-0.2	0	0	0	0	0	0	0	0
1/29/2025 10:48	53903	HALI_T2	2	1	-1	1.15	0.4	-0.75	0	0	0	0	0	0	0	0
1/29/2025 10:48	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/29/2025 10:48	66303	MCGO_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
1/29/2025 10:48	11904	ETEX_T2	0	0	0	0	0	0	-0.75	-0.78	0	0	0	0	0	0
1/29/2025 10:48	53901	HALI_T2	1	1	0	0.5	0.3	-0.2	-0.96	-0.94	0	0	0	0	0	0
1/29/2025 10:48	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 10:48	54505	ENOL_T2	1	2	1	1	0.8	-0.2	-1.29	-1.28	1	1	0	600	600	0
1/29/2025 10:48	66302	MCGO_T2	1	1	0	0.6	0.8	0.2	-1.49	-1.55	0	0	0	0	0	0
1/29/2025 10:48	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 10:48	54502	ENOL_T2	1	1	0	0.6	0.6	0	-2.04	-1.96	1	1	0	600	600	0
1/29/2025 10:48	53902	HALI_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
1/29/2025 10:50	65502	MOJO_T2	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
1/29/2025 10:52	65502	MOJO_T2	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
1/29/2025 10:54	64101	REFR_T1	5	4	-1	0.38	0.3	-0.08	-0.11	-0.09	0	0	0	0	0	0
1/29/2025 11:00	11202	ELHE_T2	0	0	0	0	0	0	0.39	0.38	1	1	0	1200	1200	0
1/29/2025 11:00	63501	HEID_TBK1-2	7	8	1	0.23	0.36	0.13	0.62	0.36	3	3	0	2700	2700	0
1/29/2025 11:02	11901	ETEX_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
1/29/2025 11:06	64101	REFR_T1	4	3	-1	0.3	0.43	0.13	-0.11	-0.09	0	0	0	0	0	0
1/29/2025 11:07	54601	SUMM_T2	0	3	3	0	0.57	0.57	-1.85	-1.83	2	2	0	2100	2100	0
1/29/2025 11:07	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.01	1	1	0	600	600	0
1/29/2025 11:07	64101	REFR_T1	4	3	-1	0.3	0.43	0.13	-0.18	-0.22	0	0	0	0	0	0
1/29/2025 11:08	60301	TWVA_T2	0	0	0	0	0	0	-1.15	-1.25	1	1	0	1200	1200	0
1/29/2025 11:12	11903	ETEX_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 11:13	61801	EELI_T2	2	3	1	0.55	0.57	0.02	0	0	0	0	0	0	0	0
1/29/2025 11:13	61802	EELI_T2	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
1/29/2025 11:14	54505	ENOL_T2	2	2	0	0.65	0.8	0.15	0	0	0	0	0	0	0	0
1/29/2025 11:14	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	-2.03	-2.06	1	1	0	600	600	0
1/29/2025 11:14	53602	DALM_T2	0	496	496	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 11:14	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/29/2025 11:14	61802	EELI_T2	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
1/29/2025 11:14	61801	EELI_T2	2	3	1	0.55	0.57	0.02	0	0	0	0	0	0	0	0
1/29/2025 11:14	53601	DALM_T2	1	1	0	0.3	0.2	-0.1	-0.65	-0.6	1	1	0	900	900	0
1/29/2025 11:15	61802	EELI_T2	0	0	0	0	0	0	-0.64	-0.58	0	0	0	0	0	0
1/29/2025 11:15	61803	EELI_T2	0	0	0	0	0	0	0.94	0.96	0	0	0	0	0	0
1/29/2025 11:15	61801	EELI_T2	2	3	1	0.65	0.57	-0.08	0	0	0	0	0	0	0	0
1/29/2025 11:15	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/29/2025 11:15	54505	ENOL_T2	2	2	0	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
1/29/2025 11:15	54501	ENOL_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
1/29/2025 11:16	54501	ENOL_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
1/29/2025 11:16	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/29/2025 11:16	54505	ENOL_T2	2	2	0	0.8	0.65	-0.15	-1.3	-1.3	1	1	0	600	600	0
1/29/2025 11:17	63803	HEMP_T1	2	2	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
1/29/2025 11:17	63801	HEMP_T1	3	3	0	0.33	0.47	0.14	0	0	0	0	0	0	0	0
1/29/2025 11:17	63804	HEMP_T1	1	1	0	6.5	6.2	-0.3	0	0	0	0	0	0	0	0
1/29/2025 11:17	63802	HEMP_T1	1	1	0	0.1	0.3	0.2	0.2	0.13	0	0	0	0	0	0
1/29/2025 11:19	54501	ENOL_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
1/29/2025 11:19	54505	ENOL_T2	2	2	0	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
1/29/2025 11:19	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	-2.03	-2.06	1	1	0	600	600	0
1/29/2025 11:20	52401	GRPA_T2	2	5	3	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
1/29/2025 11:20	57201	ROSS_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
1/29/2025 11:20	57205	ROSS_T1	2	3	1	0.65	0.7	0.05	0	0	0	0	0	0	0	0
1/29/2025 11:20	52403	GRPA_T2	16	14	-2	0.38	0.34	-0.04	-0.63	-0.58	0	0	0	0	0	0
1/29/2025 11:20	52404	GRPA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
1/29/2025 11:20	52402	GRPA_T2	10	14	4	0.59	0.58	-0.01	0	0	0	0	0	0	0	0
1/29/2025 11:22	57201	ROSS_T1	0	0	0	0	0	0	-0.64	-0.58	0	0	0	0	0	0
1/29/2025 11:22	43202	MVIL_T2	5	11	6	0.22	0.16	-0.06	0	0	0	0	0	0	0	0
1/29/2025 11:22	57205	ROSS_T1	2	3	1	0.65	0.7	0.05	0	0	0	0	0	0	0	0
1/29/2025 11:22	43201	MVIL_T2	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
1/29/2025 11:25	46002	BERW_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/29/2025 11:25	57205	ROSS_T1	2	3	1	0.65	0.7	0.05	0	0	0	0	0	0	0	0
1/29/2025 11:25	46004	BERW_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
1/29/2025 11:26	60201	ATGL_T2	9	9	0	0.28	0.3	0.02	0	0	0	0	0	0	0	0
1/29/2025 11:26	18001	ZION_T1	4	3	-1	4.98	6.73	1.75	0	0	0	0	0	0	0	0
1/29/2025 11:27	24202	PROV_T4	0	0	0	0	0	0	-0.63	-0.64	1	1	0	1200	1200	0
1/29/2025 11:28	18001	ZION_T1	4	3	-1	4.98	6.73	1.75	0	0	0	0	0	0	0	0
1/29/2025 11:28	57205	ROSS_T1	2	3	1	0.65	0.7	0.05	0.12	0.13	0	0	0	0	0	0
1/29/2025 11:29	57205	ROSS_T1	2	3	1	0.65	0.7	0.05	0	0	0	0	0	0	0	0
1/29/2025 11:29	57201	ROSS_T1	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
1/29/2025 11:30	60201	ATGL_T2	8	9	1	0.31	0.29	-0.02	0.91	0.97	0	0	0	0	0	0
1/29/2025 11:30	11901	ETEX_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/29/2025 11:30	11904	ETEX_T2	0	0	0	0	0	0	-1.57	-1.55	0	0	0	0	0	0
1/29/2025 11:31	61703	ELIZ_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/29/2025 11:31	61701	ELIZ_T1	1	1	0	5.9	5.8	-0.1	0.79	0.37	0	0	0	0	0	0
1/29/2025 11:32	52003	LING_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/29/2025 11:32	24105	EHAZ_T1	4	4	0	6.75	6.75	0	0	0	0	0	0	0	0	0
1/29/2025 11:32	24101	EHAZ_T1	35	38	3	1.04	0.96	-0.08	0	0	0	0	0	0	0	0
1/29/2025 11:32	24103	EHAZ_T1	0	1	1	0	0	0	-0.1	-0.31	0	0	0	0	0	0
1/29/2025 11:32	24104	EHAZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
1/29/2025 11:32	52001	LING_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
1/29/2025 11:32	24102	EHAZ_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
1/29/2025 11:36	66502	SMAN_T2	14	8	-6	0.24	0.29	0.05	0	0	0	0	0	0	0	0
1/29/2025 11:36	66501	SMAN_T2	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
1/29/2025 11:36	66504	SMAN_T2	6	7	1	0.65	0.36	-0.29	-0.38	-0.44	0	0	0	0	0	0
1/29/2025 11:37	66502	SMAN_T2	14	8	-6	0.24	0.29	0.05	0.3	0.27	0	0	0	0	0	0
1/29/2025 11:37	66504	SMAN_T2	6	7	1	0.65	0.36	-0.29	0	0	0	0	0	0	0	0
1/29/2025 11:37	66501	SMAN_T2	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
1/29/2025 11:37	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
1/29/2025 11:38	66504	SMAN_T2	6	7	1	0.65	0.36	-0.29	-1.32	-1.42	0	0	0	0	0	0
1/29/2025 11:38	66501	SMAN_T2	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
1/29/2025 11:38	66502	SMAN_T2	14	8	-6	0.24	0.29	0.05	0.89	0.8	0	0	0	0	0	0
1/29/2025 11:39	40201	BEGA_T2	12	7	-5	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
1/29/2025 11:39	66502	SMAN_T2	14	8	-6	0.24	0.29	0.05	0.3	0.27	0	0	0	0	0	0
1/29/2025 11:39	66504	SMAN_T2	6	7	1	0.65	0.36	-0.29	0	0	0	0	0	0	0	0
1/29/2025 11:39	66501	SMAN_T2	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
1/29/2025 11:40	66502	SMAN_T2	14	8	-6	0.24	0.29	0.05	0.59	0.53	0	0	0	0	0	0
1/29/2025 11:40	66504	SMAN_T2	6	7	1	0.65	0.36	-0.29	-0.44	-0.47	0	0	0	0	0	0
1/29/2025 11:40	66501	SMAN_T2	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
1/29/2025 11:41	66502	SMAN_T2	14	8	-6	0.24	0.29	0.05	0.3	0.27	0	0	0	0	0	0
1/29/2025 11:41	66504	SMAN_T2	6	7	1	0.65	0.36	-0.29	0	0	0	0	0	0	0	0
1/29/2025 11:41	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
1/29/2025 11:41	66501	SMAN_T2	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
1/29/2025 11:42	66501	SMAN_T2	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
1/29/2025 11:42	66502	SMAN_T2	14	8	-6	0.24	0.29	0.05	0	0	0	0	0	0	0	0
1/29/2025 11:42	66504	SMAN_T2	6	7	1	0.65	0.36	-0.29	-0.44	-0.47	0	0	0	0	0	0
1/29/2025 11:45	17802	GILB_T1	3	2	-1	0.3	0.5	0.2	0.24	0.21	0	0	0	0	0	0
1/29/2025 11:46	46504	LOHA_T1	1	2	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
1/29/2025 11:46	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
1/29/2025 11:46	52402	GRPA_T2	13	11	-2	0.56	0.67	0.11	0	0	0	0	0	0	0	0
1/29/2025 11:46	52401	GRPA_T2	5	2	-3	0.36	0.1	-0.26	0	0	0	0	0	0	0	0
1/29/2025 11:46	46506	LOHA_T1	3	3	0	3.33	3.77	0.44	0	0	0	0	0	0	0	0
1/29/2025 11:46	52403	GRPA_T2	13	3	-10	0.45	1.15	0.7	-1.17	-1.23	0	0	0	0	0	0
1/29/2025 11:46	52404	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/29/2025 11:47	52401	GRPA_T2	5	2	-3	0.36	0.1	-0.26	0	0	0	0	0	0	0	0
1/29/2025 11:47	41801	GOCI_T2	8	52	44	0.38	0.24	-0.14	0	0	0	0	0	0	0	0
1/29/2025 11:47	52404	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
1/29/2025 11:47	52402	GRPA_T2	13	11	-2	0.56	0.67	0.11	0	0	0	0	0	0	0	0
1/29/2025 11:47	52403	GRPA_T2	13	3	-10	0.45	1.15	0.7	0	0	0	0	0	0	0	0
1/29/2025 11:48	52004	LING_T2	2	2	0	5.75	5.6	-0.15	0	0	0	0	0	0	0	0
1/29/2025 11:48	41801	GOCI_T2	8	52	44	0.38	0.24	-0.14	0	0	0	0	0	0	0	0
1/29/2025 11:49	52004	LING_T2	2	2	0	5.75	5.6	-0.15	0.26	0.26	0	0	0	0	0	0
1/29/2025 11:50	64101	REFR_T1	3	0	-3	0.23	0	-0.23	-0.14	-0.14	0	0	0	0	0	0
1/29/2025 11:50	13704	SCHN_T2	0	0	0	0	0	0	-0.24	-0.31	0	0	0	0	0	0
1/29/2025 11:51	44902	SCOT_T2	349	152	-197	0.18	0.16	-0.02	-0.99	-0.98	0	0	0	0	0	0
1/29/2025 11:51	44901	SCOT_T2	41	2	-39	0.19	0.2	0.01	-0.14	0.03	0	0	0	0	0	0
1/29/2025 11:51	57205	ROSS_T1	1	1	0	0.6	1.4	0.8	0.12	0.14	0	0	0	0	0	0
1/29/2025 11:51	44905	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 11:52	64101	REFR_T1	3	0	-3	0.23	0	-0.23	-0.14	-0.28	0	0	0	0	0	0
1/29/2025 11:52	52004	LING_T2	2	2	0	5.75	5.6	-0.15	0.26	0.25	0	0	0	0	0	0
1/29/2025 11:53	64101	REFR_T1	3	0	-3	0.23	0	-0.23	-0.14	-0.28	0	0	0	0	0	0
1/29/2025 11:53	44902	SCOT_T2	349	152	-197	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
1/29/2025 11:53	44901	SCOT_T2	41	2	-39	0.19	0.2	0.01	0.03	0.05	0	0	0	0	0	0
1/29/2025 11:53	57205	ROSS_T1	1	1	0	0.6	1.4	0.8	0.12	0.14	0	0	0	0	0	0
1/29/2025 11:54	27605	PIRI_T2	1	0	-1	9.4	0	-9.4	-0.26	-0.46	1	1	0	900	900	0
1/29/2025 11:54	64101	REFR_T1	3	0	-3	0.23	0	-0.23	-0.07	-0.14	0	0	0	0	0	0
1/29/2025 11:54	44901	SCOT_T2	41	2	-39	0.19	0.2	0.01	0.03	0.05	0	0	0	0	0	0
1/29/2025 11:54	44902	SCOT_T2	349	152	-197	0.18	0.16	-0.02	-0.98	-1.04	0	0	0	0	0	0
1/29/2025 11:55	64101	REFR_T1	3	0	-3	0.23	0	-0.23	-0.07	-0.14	0	0	0	0	0	0
1/29/2025 11:56	44905	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 11:56	40201	BEGA_T2	7	5	-2	0.39	0.58	0.19	0	0	0	0	0	0	0	0
1/29/2025 11:57	40201	BEGA_T2	7	5	-2	0.39	0.58	0.19	0	0	0	0	0	0	0	0
1/29/2025 11:58	41301	FISH_T1	3	5	2	2.33	1.6	-0.73	-0.25	-0.29	0	0	0	0	0	0
1/29/2025 11:59	60904	DONG_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/29/2025 11:59	60901	DONG_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
1/29/2025 11:59	42701	AUGU_T1	1	1	0	1.3	1.6	0.3	0	0	4	4	0	3600	3600	0
1/29/2025 11:59	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 12:00	17401	FOHI_T1	0	0	0	0	0	0	-1.03	-1.03	0	0	0	0	0	0
1/29/2025 12:01	24101	EHAZ_T1	28	40	12	1.01	0.73	-0.28	0	0	0	0	0	0	0	0
1/29/2025 12:01	24102	EHAZ_T1	2	4	2	1.55	1.2	-0.35	0	0	0	0	0	0	0	0
1/29/2025 12:01	24103	EHAZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 12:01	24105	EHAZ_T1	4	4	0	6.75	7.05	0.3	0	0	0	0	0	0	0	0
1/29/2025 12:01	41301	FISH_T1	5	4	-1	1.6	1.85	0.25	-0.25	-0.29	0	0	0	0	0	0
1/29/2025 12:01	24104	EHAZ_T1	0	1	1	0	0.1	0.1	-0.85	-0.86	1	1	0	1200	1200	0
1/29/2025 12:02	41301	FISH_T1	5	4	-1	1.6	1.85	0.25	-0.25	-0.29	0	0	0	0	0	0
1/29/2025 12:04	11303	EMMA_T1	1	4	3	0.7	0.85	0.15	0	0	0	0	0	0	0	0
1/29/2025 12:04	11301	EMMA_T1	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
1/29/2025 12:04	17401	FOHI_T1	0	0	0	0	0	0	-1.03	-1.03	0	0	0	0	0	0
1/29/2025 12:06	44601	SALE_T2	0	0	0	0	0	0	0.06	-0.01	0	0	0	0	0	0
1/29/2025 12:07	44601	SALE_T2	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
1/29/2025 12:11	60801	BUCK_T1	30	140	110	0.26	0.51	0.25	-0.14	-0.12	0	0	0	0	0	0
1/29/2025 12:11	60803	BUCK_T1	24	80	56	0.6	0.47	-0.13	0	0	0	0	0	0	0	0
1/29/2025 12:12	11903	ETEX_T1	1	1	0	0.1	0.1	0	0.4	0.42	0	0	0	0	0	0
1/29/2025 12:13	17802	GILB_T1	2	1	-1	0.5	0.2	-0.3	0.23	0.22	0	0	0	0	0	0
1/29/2025 12:13	61304	EARL_T1	1	3	2	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
1/29/2025 12:14	60803	BUCK_T1	24	80	56	0.6	0.47	-0.13	0	0	0	0	0	0	0	0
1/29/2025 12:14	60801	BUCK_T1	30	140	110	0.26	0.51	0.25	-0.14	-0.12	0	0	0	0	0	0
1/29/2025 12:15	60801	BUCK_T1	86	140	54	0.55	0.52	-0.03	0	0	0	0	0	0	0	0
1/29/2025 12:15	60803	BUCK_T1	45	78	33	0.61	0.47	-0.14	0	0	0	0	0	0	0	0
1/29/2025 12:15	60802	BUCK_T2	3	3	0	0.4	0.3	-0.1	0.22	0.19	0	0	0	0	0	0
1/29/2025 12:17	61304	EARL_T1	0	3	3	0	0.17	0.17	-0.26	-0.25	0	0	0	0	0	0
1/29/2025 12:19	53901	HALI_T2	1	1	0	0.1	0.6	0.5	-1	-0.98	0	0	0	0	0	0
1/29/2025 12:19	53902	HALI_T2	1	1	0	4.9	5.2	0.3	0	0	0	0	0	0	0	0
1/29/2025 12:19	64802	MONE_T2	118	168	50	0.44	0.44	0	0.19	0.21	0	0	0	0	0	0
1/29/2025 12:19	64801	MONE_T2	150	155	5	0.43	0.53	0.1	0	0	0	0	0	0	0	0
1/29/2025 12:19	66302	MCGO_T2	1	1	0	0.3	0.9	0.6	-0.78	-0.71	0	0	0	0	0	0
1/29/2025 12:19	66303	MCGO_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
1/29/2025 12:19	53903	HALI_T2	1	3	2	0.2	0.93	0.73	0	0	0	0	0	0	0	0
1/29/2025 12:20	66302	MCGO_T2	1	1	0	0.3	0.9	0.6	-0.78	-0.71	0	0	0	0	0	0
1/29/2025 12:20	64801	MONE_T2	150	155	5	0.43	0.53	0.1	0	0	0	0	0	0	0	0
1/29/2025 12:20	64802	MONE_T2	118	168	50	0.44	0.44	0	0	0	0	0	0	0	0	0
1/29/2025 12:20	66303	MCGO_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
1/29/2025 12:21	64801	MONE_T2	150	155	5	0.43	0.53	0.1	-0.1	-0.11	0	0	0	0	0	0
1/29/2025 12:21	64802	MONE_T2	118	168	50	0.44	0.44	0	0	0	0	0	0	0	0	0
1/29/2025 12:22	43801	SWIL_T1	2	2	0	5.2	2.7	-2.5	0	0	0	0	0	0	0	0
1/29/2025 12:22	43802	SWIL_T1	0	0	0	0	0	0	-0.19	-0.19	1	1	0	600	600	0
1/29/2025 12:25	42701	AUGU_T1	1	1	0	1.3	1.3	0	0	0	2	2	0	1800	1800	0
1/29/2025 12:26	60701	BREC_T1	0	4	4	0	0.43	0.43	0	0	0	0	0	0	0	0
1/29/2025 12:26	67502	WEWI_T2	5	11	6	0.62	0.48	-0.14	0	0	0	0	0	0	0	0
1/29/2025 12:26	67503	WEWI_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/29/2025 12:27	60701	BREC_T1	0	4	4	0	0.43	0.43	-0.69	-0.73	4	4	0	2400	2400	0
1/29/2025 12:28	61304	EARL_T1	0	3	3	0	0.17	0.17	-0.25	-0.08	0	0	0	0	0	0
1/29/2025 12:28	42503	ALTA_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
1/29/2025 12:29	61304	EARL_T1	0	3	3	0	0.17	0.17	-0.25	-0.08	0	0	0	0	0	0
1/29/2025 12:29	61306	EARL_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
1/29/2025 12:30	61301	EARL_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
1/29/2025 12:30	61301	EARL_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
1/29/2025 12:30	61301	EARL_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
1/29/2025 12:30	61301	EARL_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
1/29/2025 12:30	61304	EARL_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
1/29/2025 12:30	61306	EARL_T1	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
1/29/2025 12:31	61301	EARL_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
1/29/2025 12:31	61304	EARL_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
1/29/2025 12:32	61304	EARL_T1	3	0	-3	0.17	0	-0.17	-0.25	-0.08	0	0	0	0	0	0
1/29/2025 12:33	23403	HONE_T1	182	144	-38	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
1/29/2025 12:33	23404	HONE_T1	111	93	-18	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
1/29/2025 12:41	24204	PROV_T3	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
1/29/2025 12:41	24201	PROV_T3	3	3	0	5.43	5.33	-0.1	-1.43	-1.44	1	1	0	1200	1200	0
1/29/2025 12:43	60701	BREC_T1	4	4	0	0.43	0.3	-0.13	-0.37	-0.4	2	2	0	1200	1200	0
1/29/2025 12:44	60701	BREC_T1	4	4	0	0.43	0.3	-0.13	-1.1	-1.21	6	6	0	3600	3600	0
1/29/2025 12:45	52401	GRPA_T2	1	1	0	0.2	0.2	0	-0.84	-0.85	0	0	0	0	0	0
1/29/2025 12:45	52403	GRPA_T2	2	2	0	1.55	1.55	0	0	0	0	0	0	0	0	0
1/29/2025 12:45	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/29/2025 12:45	52402	GRPA_T2	14	8	-6	0.64	0.95	0.31	0	0	0	0	0	0	0	0
1/29/2025 12:47	61505	EPET_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
1/29/2025 12:47	61502	EPET_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/29/2025 12:49	64802	MONE_T2	122	149	27	0.45	0.42	-0.03	0	0	0	0	0	0	0	0
1/29/2025 12:49	64801	MONE_T2	117	135	18	0.36	0.37	0.01	-0.1	-0.03	0	0	0	0	0	0
1/29/2025 12:50	46102	MACI_T1	0	1	1	0	0	0	0.65	0.67	0	0	0	0	0	0
1/29/2025 12:55	27605	PIRI_T2	1	0	-1	1.8	0	-1.8	0	0	0	0	0	0	0	0
1/29/2025 12:55	27603	PIRI_T2	0	936	936	0	1.2	1.2	-1.22	-1.23	2	2	0	1800	1800	0
1/29/2025 12:56	46102	MACI_T1	0	1	1	0	0	0	0.67	0.65	0	0	0	0	0	0
1/29/2025 12:56	10602	BLGL_T2	0	1	1	0	0.1	0.1	0.42	0.41	0	0	0	0	0	0
1/29/2025 13:00	41801	GOCI_T2	33	84	51	0.25	0.25	0	0	0	0	0	0	0	0	0
1/29/2025 13:01	60901	DONG_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
1/29/2025 13:01	60904	DONG_T2	0	4	4	0	0.17	0.17	0	0	0	0	0	0	0	0
1/29/2025 13:01	60903	DONG_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/29/2025 13:01	60902	DONG_T2	0	0	0	0	0	0	0.61	0.64	0	0	0	0	0	0
1/29/2025 13:02	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/29/2025 13:02	11303	EMMA_T1	3	4	1	0.8	2.15	1.35	0	0	0	0	0	0	0	0
1/29/2025 13:02	63602	LETO_T1	2	2	0	0.4	0.3	-0.1	-1.43	-1.16	0	0	0	0	0	0
1/29/2025 13:02	11301	EMMA_T1	0	0	0	0	0	0	-0.8	-0.77	0	0	0	0	0	0
1/29/2025 13:03	41801	GOCI_T2	33	84	51	0.25	0.25	0	0	0	0	0	0	0	0	0
1/29/2025 13:03	64701	LITI_T1	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
1/29/2025 13:05	64801	MONE_T2	118	154	36	0.37	0.49	0.12	0	0	0	0	0	0	0	0
1/29/2025 13:05	64802	MONE_T2	121	190	69	0.46	0.41	-0.05	0.16	0.21	0	0	0	0	0	0
1/29/2025 13:06	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/29/2025 13:06	63602	LETO_T1	2	2	0	0.4	0.3	-0.1	-0.48	-0.39	0	0	0	0	0	0
1/29/2025 13:08	41902	REED_T1	0	0	0	0	0	0	1.09	1.07	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/29/2025 13:09	41902	REED_T1	0	0	0	0	0	0	1.09	1.07	0	0	0	0	0	0
1/29/2025 13:10	53102	WTWN_T1	0	0	0	0	0	0	-1.13	-1.11	0	0	0	0	0	0
1/29/2025 13:10	41902	REED_T1	0	0	0	0	0	0	1.09	1.07	0	0	0	0	0	0
1/29/2025 13:13	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 13:14	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 13:22	44902	SCOT_T2	104	242	138	0.13	0.15	0.02	-0.94	-0.97	0	0	0	0	0	0
1/29/2025 13:22	44901	SCOT_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/29/2025 13:23	55001	NEWP_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
1/29/2025 13:23	55002	NEWP_T1	5	7	2	0.9	0.76	-0.14	-0.22	-0.24	0	0	0	0	0	0
1/29/2025 13:29	27603	PIRI_T2	565	5	-560	1.2	0	-1.2	-0.32	0	1	1	0	600	600	0
1/29/2025 13:34	58102	NEKI_T1	1	2	1	0.8	0.8	0	0.4	0.42	0	0	0	0	0	0
1/29/2025 13:34	58101	NEKI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
1/29/2025 13:36	66203	SISP_T2	0	0	0	0	0	0	-0.5	-0.53	1	1	0	1200	1200	0
1/29/2025 13:37	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 13:38	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 13:38	66201	SISP_T2	0	0	0	0	0	0	-0.56	-0.59	0	0	0	0	0	0
1/29/2025 13:38	65205	PRIN_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
1/29/2025 13:39	45602	WOOL_T1	1	2	1	0.2	0.4	0.2	0.64	0.59	0	0	0	0	0	0
1/29/2025 13:40	13702	SCHN_T1	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
1/29/2025 13:41	54601	SUMM_T2	3	8	5	0.3	0.36	0.06	0	0	0	0	0	0	0	0
1/29/2025 13:41	54603	SUMM_T2	0	0	0	0	0	0	-0.32	-0.42	1	1	0	900	900	0
1/29/2025 13:44	10801	CHHI_T1	2	1	-1	0.65	0.2	-0.45	-0.91	-0.89	1	1	0	900	900	0
1/29/2025 13:51	46001	BERW_T1	33	0	-33	0.75	0	-0.75	0.99	1.09	0	0	0	0	0	0
1/29/2025 13:52	43802	SWIL_T1	0	0	0	0	0	0	-0.21	-0.2	1	1	0	600	600	0
1/29/2025 13:52	43801	SWIL_T1	1	2	1	5	2.6	-2.4	0	0	0	0	0	0	0	0
1/29/2025 13:53	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 13:54	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 13:54	43801	SWIL_T1	1	2	1	5	2.6	-2.4	0	0	0	0	0	0	0	0
1/29/2025 13:58	11104	EGYP_T1	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
1/29/2025 14:00	11104	EGYP_T1	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
1/29/2025 14:02	11104	EGYP_T1	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
1/29/2025 14:05	41902	REED_T1	4	5	1	1.13	0	-1.13	1.08	1.15	0	0	0	0	0	0
1/29/2025 14:05	44302	BEAV_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/29/2025 14:05	44301	BEAV_T2	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
1/29/2025 14:07	59101	WALK_T2	0	0	0	0	0	0	1.32	1.44	0	0	0	0	0	0
1/29/2025 14:13	45602	WOOL_T1	2	2	0	0.4	0.35	-0.05	1.22	1.3	0	0	0	0	0	0
1/29/2025 14:14	45602	WOOL_T1	2	2	0	0.4	0.35	-0.05	0.61	0.65	0	0	0	0	0	0
1/29/2025 14:18	61503	EPET_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
1/29/2025 14:18	61502	EPET_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/29/2025 14:21	44302	BEAV_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/29/2025 14:21	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 14:22	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 14:25	23403	HONE_T1	12	4	-8	0.18	0.13	-0.05	-0.22	-0.31	0	0	0	0	0	0
1/29/2025 14:25	23404	HONE_T1	25	2	-23	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
1/29/2025 14:30	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/29/2025 14:30	52402	GRPA_T2	2	1	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
1/29/2025 14:30	52403	GRPA_T2	76	7	-69	7.53	0.97	-6.56	-0.61	-0.71	0	0	0	0	0	0
1/29/2025 14:35	65801	RTWN_T1	0	1	1	0	0	0	-0.63	-0.63	1	1	0	300	300	0
1/29/2025 14:40	65802	RTWN_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
1/29/2025 14:43	60701	BREC_T1	4	2	-2	0.53	0.15	-0.38	-0.36	-0.27	2	2	0	1200	1200	0
1/29/2025 14:43	61304	EARL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/29/2025 14:43	61301	EARL_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
1/29/2025 14:43	61302	EARL_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/29/2025 14:44	60701	BREC_T1	4	2	-2	0.53	0.15	-0.38	-0.36	-0.27	2	2	0	1200	1200	0
1/29/2025 14:44	12002	HATF_T1	0	0	0	0	0	0	-1.01	-0.87	1	1	0	1200	1200	0
1/29/2025 14:45	51702	OBER_T1	2	2	0	2.9	3.1	0.2	-0.93	-0.92	1	1	0	600	600	0
1/29/2025 14:47	51702	OBER_T1	2	2	0	2.9	3.1	0.2	-0.93	-0.92	1	1	0	600	600	0
1/29/2025 14:48	12006	HATF_T1	0	0	0	0	0	0	0.77	0.76	1	1	0	1200	1200	0
1/29/2025 14:52	54603	SUMM_T2	0	0	0	0	0	0	-0.35	-0.39	1	1	0	900	900	0
1/29/2025 14:52	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 14:52	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 14:52	54601	SUMM_T2	7	9	2	0.39	0.44	0.05	0	0	0	0	0	0	0	0
1/29/2025 14:53	65206	PRIN_T4	1	2	1	5.3	0	-5.3	0	0	0	0	0	0	0	0
1/29/2025 14:53	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 14:53	65207	PRIN_T4	3	4	1	4.03	2.3	-1.73	0	0	0	0	0	0	0	0
1/29/2025 14:57	42501	ALTA_T2	0	0	0	0	0	0	-0.03	0.02	1	1	0	600	600	0
1/29/2025 14:57	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/29/2025 14:57	42503	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/29/2025 15:01	46602	LACR_T1	0	0	0	0	0	0	-0.71	-0.7	0	0	0	0	0	0
1/29/2025 15:02	18001	ZION_T1	2	2	0	9.45	9.7	0.25	0	0	0	0	0	0	0	0
1/29/2025 15:06	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
1/29/2025 15:18	64904	MILL_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
1/29/2025 15:20	13704	SCHN_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
1/29/2025 15:21	16901	MECK_T1	77	104	27	0.26	0.32	0.06	0	0	0	0	0	0	0	0
1/29/2025 15:21	16902	MECK_T1	148	165	17	0.4	0.39	-0.01	0.18	0.19	0	0	0	0	0	0
1/29/2025 15:25	66504	SMAN_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
1/29/2025 15:25	66502	SMAN_T2	7	7	0	0.29	0.37	0.08	0.19	0.11	0	0	0	0	0	0
1/29/2025 15:25	66505	SMAN_T2	3	3	0	1.33	1.4	0.07	0	0	0	0	0	0	0	0
1/29/2025 15:27	66504	SMAN_T2	3	0	-3	0.27	0	-0.27	-0.98	-1.02	0	0	0	0	0	0
1/29/2025 15:27	66505	SMAN_T2	3	3	0	1.33	1.4	0.07	-0.78	-0.77	2	2	0	1800	1800	0
1/29/2025 15:27	66502	SMAN_T2	7	7	0	0.29	0.37	0.08	0.19	0.11	0	0	0	0	0	0
1/29/2025 15:28	66505	SMAN_T2	3	3	0	1.33	1.4	0.07	0	0	0	0	0	0	0	0
1/29/2025 15:28	66504	SMAN_T2	3	0	-3	0.27	0	-0.27	-0.49	-0.51	0	0	0	0	0	0
1/29/2025 15:28	66502	SMAN_T2	7	7	0	0.29	0.37	0.08	0	0	0	0	0	0	0	0
1/29/2025 15:29	66504	SMAN_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
1/29/2025 15:29	66505	SMAN_T2	3	3	0	1.33	1.4	0.07	-0.39	-0.39	1	1	0	900	900	0
1/29/2025 15:29	66502	SMAN_T2	7	7	0	0.29	0.37	0.08	0.39	0.22	0	0	0	0	0	0
1/29/2025 15:30	66505	SMAN_T2	3	3	0	1.4	1.07	-0.33	-0.39	-0.39	1	1	0	900	900	0
1/29/2025 15:30	66502	SMAN_T2	7	0	-7	0.37	0	-0.37	0	0	0	0	0	0	0	0
1/29/2025 15:32	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/29/2025 15:34	15104	UPHA_T2	0	0	0	0	0	0	0.73	0.65	0	0	0	0	0	0
1/29/2025 15:34	14801	TREI_T2	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
1/29/2025 15:34	15103	UPHA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
1/29/2025 15:36	13904	SEID_T1	15	11	-4	0.87	0.1	-0.77	0	0	0	0	0	0	0	0
1/29/2025 15:36	13905	SEID_T1	0	0	0	0	0	0	-1.05	-1.01	1	1	0	1200	1200	0
1/29/2025 15:41	45501	DERR_T2	0	0	0	0	0	0	0.92	0.92	1	1	0	600	600	0
1/29/2025 15:43	15603	NSTR_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
1/29/2025 15:43	15601	NSTR_T2	3	3	0	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
1/29/2025 15:44	45501	DERR_T2	0	0	0	0	0	0	0.92	0.92	1	1	0	600	600	0
1/29/2025 15:45	61506	EPET_T2	0	0	0	0	0	0	-0.79	-0.96	1	1	0	900	900	0
1/29/2025 15:46	45801	HEGI_T1	0	0	0	0	0	0	-0.18	-0.16	1	1	0	900	900	0
1/29/2025 15:47	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 15:56	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 16:05	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 16:07	41902	REED_T1	2	31	29	0.5	0.33	-0.17	1.16	1.18	0	0	0	0	0	0
1/29/2025 16:08	41902	REED_T1	2	31	29	0.5	0.33	-0.17	1.16	1.18	0	0	0	0	0	0
1/29/2025 16:10	60701	BREC_T1	0	36	36	0	0.13	0.13	-0.49	-0.52	1	1	0	600	600	0
1/29/2025 16:11	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 16:11	60701	BREC_T1	0	36	36	0	0.13	0.13	-0.49	-0.52	1	1	0	600	600	0
1/29/2025 16:11	22701	MINO_T1	0	0	0	0	0	0	-0.46	-0.42	0	0	0	0	0	0
1/29/2025 16:12	60701	BREC_T1	0	36	36	0	0.13	0.13	-0.98	-1.04	2	2	0	1200	1200	0
1/29/2025 16:12	60404	DILL_T2	1	1	0	6.6	0	-6.6	-0.29	-0.38	1	1	0	1200	1200	0
1/29/2025 16:13	60701	BREC_T1	0	36	36	0	0.13	0.13	-0.98	-1.04	2	2	0	1200	1200	0
1/29/2025 16:13	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 16:14	54502	ENOL_T2	0	0	0	0	0	0	-1.38	-1.4	0	0	0	0	0	0
1/29/2025 16:14	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
1/29/2025 16:15	60404	DILL_T2	0	1	1	0	1.6	1.6	-0.29	-0.38	1	1	0	1200	1200	0
1/29/2025 16:15	60701	BREC_T1	5	34	29	0.1	0.13	0.03	-0.98	-1.04	2	2	0	1200	1200	0
1/29/2025 16:16	22701	MINO_T1	0	0	0	0	0	0	-0.46	-0.42	0	0	0	0	0	0
1/29/2025 16:19	58202	NEWV_T1	0	0	0	0	0	0	0.12	0	0	0	0	0	0	0
1/29/2025 16:39	41902	REED_T1	28	34	6	0.5	0.58	0.08	1.16	1.15	0	0	0	0	0	0
1/29/2025 16:40	41902	REED_T1	28	34	6	0.5	0.58	0.08	1.16	1.15	0	0	0	0	0	0
1/29/2025 16:54	64904	MILL_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
1/29/2025 17:04	50501	MECH_T1	4	4	0	1.05	1.25	0.2	0	0	0	0	0	0	0	0
1/29/2025 17:04	50502	MECH_T1	1	1	0	2.2	2.5	0.3	0	0	0	0	0	0	0	0
1/29/2025 17:04	50506	MECH_T1	0	0	0	0	0	0	-0.93	-0.88	0	0	0	0	0	0
1/29/2025 18:08	42701	AUGU_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/29/2025 18:10	42701	AUGU_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
1/29/2025 18:38	41301	FISH_T1	3	3	0	1.37	1.67	0.3	-0.58	-0.48	0	0	0	0	0	0
1/29/2025 18:40	41301	FISH_T1	3	3	0	1.37	1.67	0.3	-0.29	-0.24	0	0	0	0	0	0
1/29/2025 18:41	41301	FISH_T1	3	3	0	1.37	1.67	0.3	-0.29	-0.24	0	0	0	0	0	0
1/29/2025 18:49	45602	WOOL_T1	0	0	0	0	0	0	0.61	0.64	0	0	0	0	0	0
1/29/2025 19:09	24202	PROV_T4	3	3	0	0.17	0.13	-0.04	-0.74	-0.72	1	1	0	1200	1200	0
1/29/2025 19:09	23403	HONE_T1	0	0	0	0	0	0	-0.73	-0.69	0	0	0	0	0	0
1/29/2025 19:12	16901	MECK_T1	18	32	14	0.14	0.16	0.02	0	0	0	0	0	0	0	0
1/29/2025 19:12	16902	MECK_T1	73	87	14	0.37	0.34	-0.03	0.22	0.22	0	0	0	0	0	0
1/29/2025 19:14	61001	DONV_T1	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
1/29/2025 19:16	46002	BERW_T2	0	0	0	0	0	0	-1.08	-1.05	1	1	0	900	900	0
1/29/2025 19:16	46004	BERW_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:17	60803	BUCK_T1	9	16	7	0.21	0.25	0.04	0	0	0	0	0	0	0	0
1/29/2025 19:17	60801	BUCK_T1	8	18	10	0.1	0.19	0.09	-0.17	-0.19	0	0	0	0	0	0
1/29/2025 19:17	66903	SHIL_T2	0	0	0	0	0	0	-1.23	-1.25	0	0	0	0	0	0
1/29/2025 19:17	22003	BOHE_T1	13	11	-2	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
1/29/2025 19:17	22002	BOHE_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/29/2025 19:17	27605	PIRI_T2	0	0	0	0	0	0	-2	-1.96	1	1	0	900	900	0
1/29/2025 19:17	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:18	61802	EELI_T2	0	0	0	0	0	0	-0.27	-0.26	0	0	0	0	0	0
1/29/2025 19:18	15603	NSTR_T2	0	0	0	0	0	0	-1.17	-1.09	0	0	0	0	0	0
1/29/2025 19:18	17802	GILB_T1	0	1	1	0	0	0	0.26	0.23	0	0	0	0	0	0
1/29/2025 19:18	11901	ETEX_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
1/29/2025 19:18	46802	HEPB_T1	1	1	0	1	1.1	0.1	-1.15	-1.18	0	0	0	0	0	0
1/29/2025 19:18	61701	ELIZ_T1	1	1	0	5.2	5.4	0.2	0.14	0.11	0	0	0	0	0	0
1/29/2025 19:18	43801	SWIL_T1	2	2	0	3.15	3.15	0	0	0	0	0	0	0	0	0
1/29/2025 19:18	43802	SWIL_T1	0	0	0	0	0	0	-0.14	-0.14	1	1	0	600	600	0
1/29/2025 19:18	10602	BLGL_T2	1	1	0	9.3	9.4	0.1	0.35	0.32	0	0	0	0	0	0
1/29/2025 19:18	61801	EELI_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/29/2025 19:19	41902	REED_T1	3	4	1	1.2	0.6	-0.6	0.25	0.25	1	1	0	900	900	0
1/29/2025 19:19	29402	BELT_T1	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
1/29/2025 19:20	54505	ENOL_T2	1	1	0	0.6	0.6	0	-1.21	-1.24	1	1	0	600	600	0
1/29/2025 19:20	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/29/2025 19:20	22602	KIMB_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
1/29/2025 19:20	48301	ORWI_T1	2	2	0	4.2	4.2	0	0.08	0.11	0	0	0	0	0	0
1/29/2025 19:20	29402	BELT_T1	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/29/2025 19:20	11301	EMMA_T1	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
1/29/2025 19:20	42501	ALTA_T2	0	0	0	0	0	0	0.04	0.04	1	1	0	600	600	0
1/29/2025 19:20	14801	TREI_T2	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
1/29/2025 19:20	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/29/2025 19:21	43202	MVIL_T2	1	1	0	0.1	0	0	-0.64	-0.6	0	0	0	0	0	0
1/29/2025 19:21	66902	SHIL_T2	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
1/29/2025 19:21	43801	SWIL_T1	2	2	0	3.15	3.15	0	0	0	0	0	0	0	0	0
1/29/2025 19:21	44301	BEAV_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
1/29/2025 19:21	44901	SCOT_T2	21	18	-3	0.18	0.25	0.07	-0.21	-0.17	0	0	0	0	0	0
1/29/2025 19:21	24201	PROV_T3	5	4	-1	3.36	4.18	0.82	-1.38	-1.36	1	1	0	1200	1200	0
1/29/2025 19:21	16901	MECK_T1	0	32	32	0	0.16	0.16	0	0	0	0	0	0	0	0
1/29/2025 19:21	24204	PROV_T3	4	2	-2	1.43	2.85	1.42	0	0	0	0	0	0	0	0
1/29/2025 19:21	44902	SCOT_T2	596	580	-16	0.39	0.39	0	0	0	0	0	0	0	0	0
1/29/2025 19:21	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
1/29/2025 19:21	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:21	16902	MECK_T1	55	97	42	0.29	0.34	0.05	0	0	0	0	0	0	0	0
1/29/2025 19:22	24101	EHAZ_T1	43	45	2	1.9	1.49	-0.41	0	0	0	0	0	0	0	0
1/29/2025 19:22	51303	WIND_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/29/2025 19:22	40702	FFLD_T1	1	1	0	0.1	1.2	1.1	0	0	0	0	0	0	0	0
1/29/2025 19:22	60701	BREC_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	600	600	0
1/29/2025 19:22	24102	EHAZ_T1	7	4	-3	1.13	1.75	0.62	0	0	0	0	0	0	0	0
1/29/2025 19:22	61801	EELI_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/29/2025 19:22	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:22	60803	BUCK_T1	9	16	7	0.21	0.25	0.04	-0.5	-0.53	1	1	0	600	600	0
1/29/2025 19:22	61802	EELI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:22	64904	MILL_T1	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
1/29/2025 19:22	24105	EHAZ_T1	13	16	3	2.36	6.05	3.69	0	0	0	0	0	0	0	0
1/29/2025 19:22	24104	EHAZ_T1	0	0	0	0	0	0	-0.84	-0.85	1	1	0	1200	1200	0
1/29/2025 19:22	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:22	29402	BELT_T1	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
1/29/2025 19:22	24103	EHAZ_T1	5	0	-5	0.16	0	-0.16	0	0	0	0	0	0	0	0
1/29/2025 19:22	60801	BUCK_T1	8	18	10	0.1	0.19	0.09	0	0	0	0	0	0	0	0
1/29/2025 19:22	40701	FFLD_T1	14	7	-7	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
1/29/2025 19:22	59101	WALK_T2	0	0	0	0	0	0	0.8	0.79	1	1	0	600	600	0
1/29/2025 19:23	53601	DALM_T2	0	1	1	0	0.2	0.2	-0.15	-0.09	0	0	0	0	0	0
1/29/2025 19:23	24102	EHAZ_T1	7	4	-3	1.13	1.75	0.62	0	0	0	0	0	0	0	0
1/29/2025 19:23	45602	WOOL_T1	0	0	0	0	0	0	1.22	1.22	0	0	0	0	0	0
1/29/2025 19:23	44902	SCOT_T2	596	580	-16	0.39	0.39	0	0	0	0	0	0	0	0	0
1/29/2025 19:23	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
1/29/2025 19:23	40802	EKOH_T2	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
1/29/2025 19:23	46506	LOHA_T1	3	3	0	2.23	2.03	-0.2	0	0	0	0	0	0	0	0
1/29/2025 19:23	46004	BERW_T2	0	3	3	0	0	0	-0.54	-0.57	0	0	0	0	0	0
1/29/2025 19:23	22003	BOHE_T1	13	11	-2	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
1/29/2025 19:23	22002	BOHE_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/29/2025 19:23	44502	HAMI_T2	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
1/29/2025 19:23	40201	BEGA_T2	3	6	3	0.77	0.36	-0.41	0	0	0	0	0	0	0	0
1/29/2025 19:23	60701	BREC_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	600	600	0
1/29/2025 19:23	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:23	24103	EHAZ_T1	5	0	-5	0.16	0	-0.16	-0.31	-0.32	0	0	0	0	0	0
1/29/2025 19:23	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
1/29/2025 19:23	24105	EHAZ_T1	13	16	3	2.36	6.05	3.69	0	0	0	0	0	0	0	0
1/29/2025 19:23	46602	LACR_T1	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
1/29/2025 19:23	24101	EHAZ_T1	43	45	2	1.9	1.49	-0.41	0	0	0	0	0	0	0	0
1/29/2025 19:23	46501	LOHA_T1	7	5	-2	0.91	1.13	0.22	0	0	0	0	0	0	0	0
1/29/2025 19:23	44901	SCOT_T2	21	18	-3	0.18	0.25	0.07	-0.17	-0.18	0	0	0	0	0	0
1/29/2025 19:23	66505	SMAN_T2	3	3	0	0.43	0.63	0.2	-0.45	-0.49	1	1	0	900	900	0
1/29/2025 19:23	44601	SALE_T2	0	0	0	0	0	0	-0.1	-0.02	0	0	0	0	0	0
1/29/2025 19:24	46506	LOHA_T1	3	3	0	2.23	2.03	-0.2	0	0	0	0	0	0	0	0
1/29/2025 19:24	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
1/29/2025 19:24	45501	DERR_T2	6	5	-1	1.03	0.58	-0.45	1.08	1.06	1	1	0	600	600	0
1/29/2025 19:24	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:24	46501	LOHA_T1	7	5	-2	0.91	1.13	0.22	0.04	-0.02	1	1	0	1200	1200	0
1/29/2025 19:24	11903	ETEX_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
1/29/2025 19:24	44302	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:24	60201	ATGL_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
1/29/2025 19:24	11104	EGYP_T1	1	25	24	0.2	0.32	0.12	0.85	0.82	0	0	0	0	0	0
1/29/2025 19:24	60801	BUCK_T1	8	18	10	0.1	0.19	0.09	-0.19	-0.2	0	0	0	0	0	0
1/29/2025 19:24	18001	ZION_T1	2	2	0	9.3	9.4	0.1	0	0	0	0	0	0	0	0
1/29/2025 19:24	60803	BUCK_T1	9	16	7	0.21	0.25	0.04	0	0	0	0	0	0	0	0
1/29/2025 19:24	11102	EGYP_T1	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
1/29/2025 19:24	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/29/2025 19:24	53101	WTWN_T1	1	2	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
1/29/2025 19:24	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:24	16103	BING_T2	0	0	0	0	0	0	-1.52	-1.55	1	1	0	900	900	0
1/29/2025 19:24	14801	TREI_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
1/29/2025 19:24	44301	BEAV_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
1/29/2025 19:24	54506	ENOL_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
1/29/2025 19:24	66505	SMAN_T2	3	3	0	0.43	0.63	0.2	0	0	0	0	0	0	0	0
1/29/2025 19:24	54505	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/29/2025 19:24	63501	HEID_TBK1-2	15	40	25	0.14	0.23	0.09	-1.06	-1.12	2	2	0	1800	1800	0
1/29/2025 19:24	41902	REED_T1	3	4	1	1.2	0.6	-0.6	0.25	0.31	1	1	0	900	900	0
1/29/2025 19:24	46502	LOHA_T1	0	0	0	0	0	0	-1.32	-1.28	1	1	0	1200	1200	0
1/29/2025 19:24	66504	SMAN_T2	0	0	0	0	0	0	-0.78	-0.88	0	0	0	0	0	0
1/29/2025 19:25	42701	AUGU_T1	2	2	0	0.35	0.1	-0.25	0	0	4	4	0	3600	3600	0
1/29/2025 19:25	41902	REED_T1	3	4	1	1.2	0.6	-0.6	0.25	0.31	1	1	0	900	900	0
1/29/2025 19:25	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:25	59201	THOM_T1	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/29/2025 19:25	64204	KINZ_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
1/29/2025 19:25	64201	KINZ_T1	0	5	5	0	0.18	0.18	-0.37	-0.4	3	3	0	1500	1500	0
1/29/2025 19:25	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
1/29/2025 19:25	66505	SMAN_T2	3	3	0	0.43	0.63	0.2	0	0	0	0	0	0	0	0
1/29/2025 19:25	59202	THOM_T1	1	7	6	0.1	0.16	0.06	0	0	0	0	0	0	0	0
1/29/2025 19:25	61506	EPET_T2	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
1/29/2025 19:25	60701	BREC_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	600	600	0
1/29/2025 19:25	66902	SHIL_T2	0	0	0	0	0	0	-1.9	-1.9	0	0	0	0	0	0
1/29/2025 19:25	43202	MVIL_T2	1	1	0	0.1	0.1	0	-0.6	-0.59	0	0	0	0	0	0
1/29/2025 19:26	18001	ZION_T1	2	2	0	9.3	9.4	0.1	0	0	0	0	0	0	0	0
1/29/2025 19:26	66505	SMAN_T2	3	3	0	0.43	0.63	0.2	0	0	0	0	0	0	0	0
1/29/2025 19:26	10801	CHHI_T1	0	0	0	0	0	0	-0.81	-0.79	1	1	0	900	900	0
1/29/2025 19:26	11901	ETEX_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
1/29/2025 19:26	66504	SMAN_T2	0	0	0	0	0	0	-0.39	-0.44	0	0	0	0	0	0
1/29/2025 19:26	11904	ETEX_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
1/29/2025 19:26	61301	EARL_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
1/29/2025 19:26	45501	DERR_T2	6	5	-1	1.03	0.58	-0.45	1.08	1.06	1	1	0	600	600	0
1/29/2025 19:26	40101	HUNT_T2	18	28	10	1.11	0.98	-0.13	-0.76	-0.73	0	0	0	0	0	0
1/29/2025 19:26	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:26	40201	BEGA_T2	3	6	3	0.77	0.36	-0.41	0	0	0	0	0	0	0	0
1/29/2025 19:26	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:26	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
1/29/2025 19:26	52004	LING_T2	2	2	0	6.05	6.05	0	0.32	0.29	0	0	0	0	0	0
1/29/2025 19:26	13701	SCHN_T2	0	0	0	0	0	0	0.02	0	1	1	0	600	600	0
1/29/2025 19:26	15103	UPHA_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
1/29/2025 19:26	52006	LING_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
1/29/2025 19:26	54505	ENOL_T2	1	1	0	0.6	0.6	0	-1.24	-1.22	1	1	0	600	600	0
1/29/2025 19:27	61304	EARL_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
1/29/2025 19:27	62105	ELAN_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
1/29/2025 19:27	43801	SWIL_T1	2	2	0	3.15	3.15	0	0	0	0	0	0	0	0	0
1/29/2025 19:27	43802	SWIL_T1	0	0	0	0	0	0	-0.14	-0.14	1	1	0	600	600	0
1/29/2025 19:27	53502	EVIL_T2	0	0	0	0	0	0	0.51	0.49	2	2	0	1200	1200	0
1/29/2025 19:27	66504	SMAN_T2	0	0	0	0	0	0	-0.39	-0.44	0	0	0	0	0	0
1/29/2025 19:27	60701	BREC_T1	0	0	0	0	0	0	-0.92	-0.94	2	2	0	1200	1200	0
1/29/2025 19:27	44601	SALE_T2	0	0	0	0	0	0	-0.1	-0.02	0	0	0	0	0	0
1/29/2025 19:27	66505	SMAN_T2	3	3	0	0.43	0.63	0.2	0	0	0	0	0	0	0	0
1/29/2025 19:28	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/29/2025 19:28	60701	BREC_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	600	600	0
1/29/2025 19:28	11202	ELHE_T2	0	0	0	0	0	0	0.42	0.43	1	1	0	1200	1200	0
1/29/2025 19:28	57201	ROSS_T1	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
1/29/2025 19:28	44502	HAMI_T2	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
1/29/2025 19:28	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:28	44505	HAMI_T2	0	0	0	0	0	0	-0.18	-0.1	0	0	0	0	0	0
1/29/2025 19:28	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/29/2025 19:28	62106	ELAN_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
1/29/2025 19:28	53901	HALI_T2	1	1	0	0.1	0.3	0.2	-1.36	-1.37	0	0	0	0	0	0
1/29/2025 19:28	63602	LETO_T1	0	0	0	0	0	0	-0.45	-0.49	0	0	0	0	0	0
1/29/2025 19:28	57205	ROSS_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
1/29/2025 19:28	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
1/29/2025 19:28	53902	HALI_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
1/29/2025 19:28	54505	ENOL_T2	1	1	0	0.6	0.6	0	-1.24	-1.22	1	1	0	600	600	0
1/29/2025 19:28	52004	LING_T2	2	2	0	6.05	6.05	0	0.32	0.29	0	0	0	0	0	0
1/29/2025 19:28	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:28	64801	MONE_T2	9	8	-1	0.16	0.16	0	0.04	0.06	0	0	0	0	0	0
1/29/2025 19:28	66203	SISP_T2	0	0	0	0	0	0	-0.7	-0.74	1	1	0	1200	1200	0
1/29/2025 19:28	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:28	10801	CHHI_T1	0	0	0	0	0	0	-0.81	-0.79	1	1	0	900	900	0
1/29/2025 19:28	42503	ALTA_T2	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
1/29/2025 19:28	66505	SMAN_T2	3	3	0	0.43	0.63	0.2	0	0	0	0	0	0	0	0
1/29/2025 19:28	12006	HATF_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:28	53903	HALI_T2	2	2	0	0.9	1	0.1	-0.06	-0.08	0	0	0	0	0	0
1/29/2025 19:28	12002	HATF_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
1/29/2025 19:28	64802	MONE_T2	15	12	-3	0.17	0.22	0.05	0	0	0	0	0	0	0	0
1/29/2025 19:28	58202	NEWV_T1	0	0	0	0	0	0	-0.04	-0.12	0	0	0	0	0	0
1/29/2025 19:28	52006	LING_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
1/29/2025 19:28	11904	ETEX_T2	0	0	0	0	0	0	0.78	0.81	0	0	0	0	0	0
1/29/2025 19:29	61304	EARL_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
1/29/2025 19:29	66302	MCGO_T2	0	0	0	0	0	0	-1.61	-1.59	1	1	0	600	600	0
1/29/2025 19:29	43202	MVIL_T2	1	1	0	0.1	0.1	0	-0.6	-0.59	0	0	0	0	0	0
1/29/2025 19:29	64204	KINZ_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
1/29/2025 19:29	64201	KINZ_T1	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
1/29/2025 19:29	54505	ENOL_T2	1	1	0	0.6	0.6	0	-1.24	-1.22	1	1	0	600	600	0
1/29/2025 19:29	52403	GRPA_T2	10	5	-5	0.88	0.9	0.02	0	0	0	0	0	0	0	0
1/29/2025 19:29	61801	EELI_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/29/2025 19:29	60803	BUCK_T1	9	16	7	0.21	0.25	0.04	-0.5	-0.53	1	1	0	600	600	0
1/29/2025 19:29	40702	FFLD_T1	1	1	0	0.1	1.2	1.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/29/2025 19:29	44502	HAMI_T2	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
1/29/2025 19:29	60404	DILL_T2	0	0	0	0	0	0	-0.36	-0.19	1	1	0	1200	1200	0
1/29/2025 19:29	54501	ENOL_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
1/29/2025 19:29	66504	SMAN_T2	0	0	0	0	0	0	-0.39	-0.44	0	0	0	0	0	0
1/29/2025 19:29	65801	RTWN_T1	0	0	0	0	0	0	-0.68	-0.67	1	1	0	300	300	0
1/29/2025 19:29	52401	GRPA_T2	0	1	1	0	0	0	-0.76	-0.74	0	0	0	0	0	0
1/29/2025 19:29	61306	EARL_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
1/29/2025 19:29	61802	EELI_T2	0	0	0	0	0	0	-0.26	-0.3	0	0	0	0	0	0
1/29/2025 19:29	40701	FFLD_T1	14	7	-7	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
1/29/2025 19:29	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:29	52402	GRPA_T2	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
1/29/2025 19:29	66903	SHIL_T2	0	0	0	0	0	0	-1.25	-1.25	0	0	0	0	0	0
1/29/2025 19:29	46004	BERW_T2	0	3	3	0	0	0	-0.54	-0.57	0	0	0	0	0	0
1/29/2025 19:29	60801	BUCK_T1	8	18	10	0.1	0.19	0.09	0	0	0	0	0	0	0	0
1/29/2025 19:29	66505	SMAN_T2	3	3	0	0.43	0.63	0.2	-0.45	-0.49	1	1	0	900	900	0
1/29/2025 19:29	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
1/29/2025 19:29	44505	HAMI_T2	0	0	0	0	0	0	-0.18	-0.1	0	0	0	0	0	0
1/29/2025 19:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:30	61801	EELI_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
1/29/2025 19:30	63804	HEMP_T1	1	1	0	6.7	6.6	-0.1	0	0	0	0	0	0	0	0
1/29/2025 19:30	52004	LING_T2	2	2	0	6.05	6.15	0.1	0	0	0	0	0	0	0	0
1/29/2025 19:30	66503	SMAN_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
1/29/2025 19:30	65205	PRIN_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
1/29/2025 19:30	66502	SMAN_T2	0	0	0	0	0	0	-0.47	-0.39	0	0	0	0	0	0
1/29/2025 19:30	64801	MONE_T2	3	15	12	0.1	0.19	0.09	0.04	0.06	0	0	0	0	0	0
1/29/2025 19:30	64201	KINZ_T1	0	7	7	0	0.26	0.26	-0.37	-0.4	3	3	0	1500	1500	0
1/29/2025 19:30	63501	HEID_TBK1-2	27	48	21	0.21	0.45	0.24	-0.53	-0.56	1	1	0	900	900	0
1/29/2025 19:30	65202	PRIN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/29/2025 19:30	55002	NEWP_T1	2	3	1	0.5	0.5	0	-0.21	-0.21	0	0	0	0	0	0
1/29/2025 19:30	16102	BING_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/29/2025 19:30	60802	BUCK_T2	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
1/29/2025 19:30	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:30	51702	OBER_T1	2	2	0	2.95	3.15	0.2	-0.93	-0.96	1	1	0	600	600	0
1/29/2025 19:30	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	-1.24	-1.22	1	1	0	600	600	0
1/29/2025 19:30	44902	SCOT_T2	578	651	73	0.39	0.42	0.03	-0.95	-0.95	0	0	0	0	0	0
1/29/2025 19:30	61803	EELI_T2	0	0	0	0	0	0	0.8	0.83	0	0	0	0	0	0
1/29/2025 19:30	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:30	66505	SMAN_T2	3	3	0	0.6	0.9	0.3	-0.45	-0.49	1	1	0	900	900	0
1/29/2025 19:30	44901	SCOT_T2	18	44	26	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
1/29/2025 19:30	63802	HEMP_T1	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
1/29/2025 19:30	61306	EARL_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
1/29/2025 19:30	46506	LOHA_T1	3	3	0	2.03	1.97	-0.06	0	0	0	0	0	0	0	0
1/29/2025 19:30	60803	BUCK_T1	9	21	12	0.21	0.31	0.1	0	0	0	0	0	0	0	0
1/29/2025 19:30	57201	ROSS_T1	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
1/29/2025 19:30	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
1/29/2025 19:30	44301	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/29/2025 19:30	42701	AUGU_T1	2	0	-2	0.15	0	-0.15	0	0	2	2	0	1800	1800	0
1/29/2025 19:30	46501	LOHA_T1	4	5	1	1.15	1.38	0.23	0	0	0	0	0	0	0	0
1/29/2025 19:30	52006	LING_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
1/29/2025 19:30	11904	ETEK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:30	64802	MONE_T2	12	24	12	0.18	0.23	0.05	-0.02	-0.04	0	0	0	0	0	0
1/29/2025 19:30	60201	ATGL_T2	4	5	1	0.13	0.38	0.25	0.78	0.77	0	0	0	0	0	0
1/29/2025 19:30	12006	HATF_T1	2	0	-2	0.1	0	-0.1	0.37	0.43	1	1	0	1200	1200	0
1/29/2025 19:30	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:30	61301	EARL_T1	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0	0
1/29/2025 19:30	64204	KINZ_T1	1	3	2	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
1/29/2025 19:30	60801	BUCK_T1	9	28	19	0.12	0.2	0.08	-0.19	-0.2	0	0	0	0	0	0
1/29/2025 19:30	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:31	60701	BREC_T1	0	0	0	0	0	0	-0.92	-0.94	2	2	0	1200	1200	0
1/29/2025 19:31	44901	SCOT_T2	18	44	26	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
1/29/2025 19:31	60801	BUCK_T1	9	28	19	0.12	0.2	0.08	0	0	0	0	0	0	0	0
1/29/2025 19:31	60803	BUCK_T1	9	21	12	0.21	0.31	0.1	-1	-1.06	2	2	0	1200	1200	0
1/29/2025 19:31	46501	LOHA_T1	4	5	1	1.15	1.38	0.23	0	0	0	0	0	0	0	0
1/29/2025 19:31	44902	SCOT_T2	578	651	73	0.39	0.42	0.03	-0.95	-0.95	0	0	0	0	0	0
1/29/2025 19:31	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
1/29/2025 19:31	55401	SHER_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
1/29/2025 19:31	55405	SHER_T1	6	7	1	1.13	0.91	-0.22	0	0	0	0	0	0	0	0
1/29/2025 19:31	50506	MECH_T1	0	0	0	0	0	0	-0.82	-0.71	0	0	0	0	0	0
1/29/2025 19:31	65502	MOJO_T2	0	0	0	0	0	0	-1	-0.97	0	0	0	0	0	0
1/29/2025 19:31	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
1/29/2025 19:31	58102	NEKI_T1	1	1	0	0.6	0.7	0.1	0.48	0.43	0	0	0	0	0	0
1/29/2025 19:31	50501	MECH_T1	4	4	0	0.65	0.73	0.08	0	0	0	0	0	0	0	0
1/29/2025 19:31	54506	ENOL_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
1/29/2025 19:31	46503	LOHA_T1	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
1/29/2025 19:31	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.01	1	1	0	600	600	0
1/29/2025 19:31	64802	MONE_T2	12	24	12	0.18	0.23	0.05	0	0	0	0	0	0	0	0
1/29/2025 19:31	50502	MECH_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
1/29/2025 19:31	46506	LOHA_T1	3	3	0	2.03	1.97	-0.06	0	0	0	0	0	0	0	0
1/29/2025 19:31	60201	ATGL_T2	4	5	1	0.13	0.38	0.25	0.78	0.77	0	0	0	0	0	0
1/29/2025 19:31	64801	MONE_T2	3	15	12	0.1	0.19	0.09	0	0	0	0	0	0	0	0
1/29/2025 19:32	60803	BUCK_T1	9	21	12	0.21	0.31	0.1	0	0	0	0	0	0	0	0
1/29/2025 19:32	60801	BUCK_T1	9	28	19	0.12	0.2	0.08	0	0	0	0	0	0	0	0
1/29/2025 19:32	11102	EGYP_T1	6	7	1	0.6	0.13	-0.47	0	0	0	0	0	0	0	0
1/29/2025 19:32	13704	SCHN_T2	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
1/29/2025 19:32	54601	SUMM_T2	1	2	1	0.3	0.25	-0.05	-1.79	-1.79	2	2	0	2100	2100	0
1/29/2025 19:32	61301	EARL_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
1/29/2025 19:32	11104	EGYP_T1	11	27	16	0.32	0.42	0.1	0.43	0.41	0	0	0	0	0	0
1/29/2025 19:32	18001	ZION_T1	2	2	0	9.15	9.4	0.25	0	0	0	0	0	0	0	0
1/29/2025 19:32	57201	ROSS_T1	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
1/29/2025 19:32	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:32	53902	HALI_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
1/29/2025 19:32	43202	MVIL_T2	1	0	-1	0.1	0	-0.1	-0.6	-0.59	0	0	0	0	0	0
1/29/2025 19:32	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
1/29/2025 19:32	65202	PRIN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/29/2025 19:32	54502	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:32	66505	SMAN_T2	3	3	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
1/29/2025 19:32	52001	LING_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
1/29/2025 19:32	10801	CHHI_T1	0	3	3	0	0	0	-0.81	-0.79	1	1	0	900	900	0
1/29/2025 19:32	46001	BERW_T1	3	0	-3	0.67	0	-0.67	0.82	0.78	0	0	0	0	0	0
1/29/2025 19:32	65205	PRIN_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
1/29/2025 19:32	60701	BREC_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	600	600	0
1/29/2025 19:32	53903	HALI_T2	2	2	0	1	1.2	0.2	-0.06	-0.08	0	0	0	0	0	0
1/29/2025 19:32	41902	REED_T1	3	7	4	0.6	0.23	-0.37	0.25	0.31	1	1	0	900	900	0
1/29/2025 19:32	45801	HEGI_T1	0	0	0	0	0	0	-0.23	-0.24	1	1	0	900	900	0
1/29/2025 19:32	53901	HALI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/29/2025 19:32	63501	HEID_TBK1-2	27	48	21	0.21	0.45	0.24	-0.53	-0.56	1	1	0	900	900	0
1/29/2025 19:32	46004	BERW_T2	0	5	5	0	0.3	0.3	-0.54	-0.57	0	0	0	0	0	0
1/29/2025 19:33	44902	SCOT_T2	578	651	73	0.39	0.42	0.03	-0.95	-0.95	0	0	0	0	0	0
1/29/2025 19:33	40802	EXCH_T2	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
1/29/2025 19:33	52402	GRPA_T2	2	2	0	0.65	0.15	-0.5	0	0	0	0	0	0	0	0
1/29/2025 19:33	52403	GRPA_T2	5	5	0	1.02	1.13	0.11	0	0	0	0	0	0	0	0
1/29/2025 19:33	66505	SMAN_T2	3	3	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
1/29/2025 19:33	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
1/29/2025 19:33	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:33	64801	MONE_T2	3	15	12	0.1	0.19	0.09	0	0	0	0	0	0	0	0
1/29/2025 19:33	60701	BREC_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	600	600	0
1/29/2025 19:33	60201	ATGL_T2	4	5	1	0.13	0.38	0.25	0.78	0.77	0	0	0	0	0	0
1/29/2025 19:33	66503	SMAN_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
1/29/2025 19:33	44901	SCOT_T2	18	44	26	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
1/29/2025 19:33	64802	MONE_T2	12	24	12	0.18	0.23	0.05	0	0	0	0	0	0	0	0
1/29/2025 19:33	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	-2.48	-2.44	2	2	0	1200	1200	0
1/29/2025 19:33	40201	BEGA_T2	5	5	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
1/29/2025 19:33	57201	ROSS_T1	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
1/29/2025 19:33	61304	EARL_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
1/29/2025 19:34	60803	BUCK_T1	9	21	12	0.21	0.31	0.1	0	0	0	0	0	0	0	0
1/29/2025 19:34	60701	BREC_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	600	600	0
1/29/2025 19:34	41902	REED_T1	3	7	4	0.6	0.23	-0.37	0.25	0.31	1	1	0	900	900	0
1/29/2025 19:34	66505	SMAN_T2	3	3	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
1/29/2025 19:34	46102	MACI_T1	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
1/29/2025 19:34	11301	EMMA_T1	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
1/29/2025 19:34	54502	ENOL_T2	0	0	0	0	0	0	-1.93	-1.96	1	1	0	600	600	0
1/29/2025 19:34	65802	RTWN_T2	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
1/29/2025 19:34	66504	SMAN_T2	0	0	0	0	0	0	-0.39	-0.44	0	0	0	0	0	0
1/29/2025 19:34	44301	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/29/2025 19:34	44302	BEAV_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
1/29/2025 19:34	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
1/29/2025 19:34	52402	GRPA_T2	2	2	0	0.65	0.15	-0.5	0	0	0	0	0	0	0	0
1/29/2025 19:34	61502	EPET_T1	0	0	0	0	0	0	-1.05	-1.06	0	0	0	0	0	0
1/29/2025 19:34	45602	WOOL_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
1/29/2025 19:34	60801	BUCK_T1	9	28	19	0.12	0.2	0.08	-0.38	-0.4	0	0	0	0	0	0
1/29/2025 19:34	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:34	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:34	52102	MEIS_T1	0	2	2	0	0	0	0	0	1	1	0	450	450	0
1/29/2025 19:34	61001	DONV_T1	0	0	0	0	0	0	-0.26	-0.23	0	0	0	0	0	0
1/29/2025 19:34	52403	GRPA_T2	5	5	0	1.02	1.13	0.11	-0.5	-0.51	0	0	0	0	0	0
1/29/2025 19:34	52401	GRPA_T2	0	1	1	0	0	0	-0.76	-0.74	0	0	0	0	0	0
1/29/2025 19:34	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.01	1	1	0	600	600	0
1/29/2025 19:34	57205	ROSS_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
1/29/2025 19:34	54503	ENOL_T2	0	0	0	0	0	0	-0.36	-0.34	1	1	0	600	600	0
1/29/2025 19:34	51702	OBER_T1	2	2	0	2.95	3.15	0.2	-0.93	-0.96	1	1	0	600	600	0
1/29/2025 19:35	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:35	64204	KINZ_T1	1	3	2	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
1/29/2025 19:35	54501	ENOL_T2	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
1/29/2025 19:35	44902	SCOT_T2	578	651	73	0.39	0.42	0.03	0	0	0	0	0	0	0	0
1/29/2025 19:35	52403	GRPA_T2	5	5	0	1.02	1.13	0.11	-0.5	-0.51	0	0	0	0	0	0
1/29/2025 19:35	66903	SHIL_T2	0	0	0	0	0	0	-1.25	-1.25	0	0	0	0	0	0
1/29/2025 19:35	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:35	61802	EELI_T2	0	0	0	0	0	0	-0.26	-0.3	0	0	0	0	0	0
1/29/2025 19:35	58401	MORO_T1	0	0	0	0	0	0	-2.04	-2.02	2	2	0	1200	1200	0
1/29/2025 19:35	52402	GRPA_T2	2	2	0	0.65	0.15	-0.5	0	0	0	0	0	0	0	0
1/29/2025 19:35	60801	BUCK_T1	9	28	19	0.12	0.2	0.08	-0.19	-0.2	0	0	0	0	0	0
1/29/2025 19:35	53101	WTWN_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/29/2025 19:35	64201	KINZ_T1	0	7	7	0	0.26	0.26	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/29/2025 19:35	60902	DONG_T2	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
1/29/2025 19:35	60701	BREC_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	600	600	0
1/29/2025 19:35	41902	REED_T1	3	7	4	0.6	0.23	-0.37	0.5	0.62	2	2	0	1800	1800	0
1/29/2025 19:35	60803	BUCK_T1	9	21	12	0.21	0.31	0.1	-0.5	-0.53	1	1	0	600	600	0
1/29/2025 19:35	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	-1.24	-1.22	1	1	0	600	600	0
1/29/2025 19:35	61306	EARL_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
1/29/2025 19:35	61801	EELI_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
1/29/2025 19:35	44901	SCOT_T2	18	44	26	0.25	0.23	-0.02	-0.17	-0.18	0	0	0	0	0	0
1/29/2025 19:35	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:36	53901	HALI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/29/2025 19:36	66505	SMAN_T2	3	3	0	0.6	0.9	0.3	-0.45	-0.49	1	1	0	900	900	0
1/29/2025 19:36	53902	HALI_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
1/29/2025 19:36	63602	LETO_T1	0	0	0	0	0	0	-0.45	-0.49	0	0	0	0	0	0
1/29/2025 19:36	57205	ROSS_T1	0	0	0	0	0	0	0.19	0.15	0	0	0	0	0	0
1/29/2025 19:36	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
1/29/2025 19:36	60701	BREC_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	600	600	0
1/29/2025 19:36	64802	MONE_T2	12	24	12	0.18	0.23	0.05	0	0	0	0	0	0	0	0
1/29/2025 19:36	64801	MONE_T2	3	15	12	0.1	0.19	0.09	0	0	0	0	0	0	0	0
1/29/2025 19:36	60803	BUCK_T1	9	21	12	0.21	0.31	0.1	0	0	0	0	0	0	0	0
1/29/2025 19:36	66504	SMAN_T2	0	0	0	0	0	0	-1.16	-1.32	0	0	0	0	0	0
1/29/2025 19:36	15104	UPHA_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
1/29/2025 19:36	66302	MCGO_T2	0	0	0	0	0	0	-1.61	-1.59	1	1	0	600	600	0
1/29/2025 19:36	60801	BUCK_T1	9	28	19	0.12	0.2	0.08	0	0	0	0	0	0	0	0
1/29/2025 19:36	65502	MOJO_T2	0	0	0	0	0	0	-1	-0.97	0	0	0	0	0	0
1/29/2025 19:36	53903	HALI_T2	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
1/29/2025 19:37	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:37	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
1/29/2025 19:37	66502	SMAN_T2	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0
1/29/2025 19:37	67502	WEWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:37	66505	SMAN_T2	3	3	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
1/29/2025 19:37	63501	HEID_TBK1-2	27	48	21	0.21	0.45	0.24	-0.56	-0.55	1	1	0	900	900	0
1/29/2025 19:37	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:37	66903	SHIL_T2	0	0	0	0	0	0	-1.25	-1.26	0	0	0	0	0	0
1/29/2025 19:37	43202	MVIL_T2	1	0	-1	0.1	0	-0.1	-0.59	-0.64	0	0	0	0	0	0
1/29/2025 19:37	44502	HAMI_T2	1	1	0	2.3	2.5	0.2	0	0	0	0	0	0	0	0
1/29/2025 19:37	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
1/29/2025 19:38	53601	DALM_T2	0	1	1	0	0.6	0.6	-0.09	-0.16	0	0	0	0	0	0
1/29/2025 19:38	53502	EVIL_T2	0	0	0	0	0	0	-0.49	-0.51	2	2	0	1200	1200	0
1/29/2025 19:38	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
1/29/2025 19:38	60801	BUCK_T1	9	28	19	0.12	0.2	0.08	-0.2	-0.22	0	0	0	0	0	0
1/29/2025 19:38	66302	MCGO_T2	0	0	0	0	0	0	-3.18	-3.22	2	2	0	1200	1200	0
1/29/2025 19:38	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:38	53501	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/29/2025 19:38	64801	MONE_T2	3	15	12	0.1	0.19	0.09	0	0	0	0	0	0	0	0
1/29/2025 19:38	60701	BREC_T1	0	0	0	0	0	0	-0.47	-0.42	1	1	0	600	600	0
1/29/2025 19:38	64802	MONE_T2	12	24	12	0.18	0.23	0.05	-0.04	-0.01	0	0	0	0	0	0
1/29/2025 19:38	64203	KINZ_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
1/29/2025 19:38	64201	KINZ_T1	0	7	7	0	0.26	0.26	0	0	0	0	0	0	0	0
1/29/2025 19:38	54601	SUMM_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
1/29/2025 19:38	60803	BUCK_T1	9	21	12	0.21	0.31	0.1	0	0	0	0	0	0	0	0
1/29/2025 19:38	54603	SUMM_T2	0	0	0	0	0	0	-0.41	-0.41	1	1	0	900	900	0
1/29/2025 19:38	54502	ENOL_T2	0	0	0	0	0	0	-1.96	-1.98	1	1	0	600	600	0
1/29/2025 19:38	64204	KINZ_T1	1	3	2	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
1/29/2025 19:39	44905	SCOT_T1	2	2	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
1/29/2025 19:39	61304	EARL_T1	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
1/29/2025 19:39	52403	GRPA_T2	5	5	0	1.02	1.13	0.11	0	0	0	0	0	0	0	0
1/29/2025 19:39	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:39	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
1/29/2025 19:39	52402	GRPA_T2	2	2	0	0.65	0.15	-0.5	0	0	0	0	0	0	0	0
1/29/2025 19:40	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
1/29/2025 19:40	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:40	52403	GRPA_T2	5	5	0	1.02	1.13	0.11	-0.51	-0.49	0	0	0	0	0	0
1/29/2025 19:40	61301	EARL_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
1/29/2025 19:40	52402	GRPA_T2	2	2	0	0.65	0.15	-0.5	0	0	0	0	0	0	0	0
1/29/2025 19:42	52402	GRPA_T2	2	2	0	0.65	0.15	-0.5	0	0	0	0	0	0	0	0
1/29/2025 19:42	61304	EARL_T1	0	0	0	0	0	0	-0.21	-0.18	0	0	0	0	0	0
1/29/2025 19:42	52403	GRPA_T2	5	5	0	1.02	1.13	0.11	-0.51	-0.49	0	0	0	0	0	0
1/29/2025 19:42	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:43	52403	GRPA_T2	5	5	0	1.02	1.13	0.11	0	0	0	0	0	0	0	0
1/29/2025 19:43	52402	GRPA_T2	2	2	0	0.65	0.15	-0.5	0	0	0	0	0	0	0	0
1/29/2025 19:43	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 19:48	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
1/29/2025 19:48	54502	ENOL_T2	0	0	0	0	0	0	-1.96	-1.98	1	1	0	600	600	0
1/29/2025 19:50	61802	EELI_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
1/29/2025 19:50	61801	EELI_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
1/29/2025 19:54	13905	SEID_T1	0	0	0	0	0	0	-0.93	-0.97	1	1	0	1200	1200	0
1/29/2025 19:54	13904	SEID_T1	22	34	12	1.12	0.72	-0.4	0	0	0	0	0	0	0	0
1/29/2025 19:55	66502	SMAN_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
1/29/2025 19:55	66505	SMAN_T2	3	3	0	0.63	1	0.37	0	0	0	0	0	0	0	0
1/29/2025 20:27	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 20:27	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 20:27	65207	PRIN_T4	4	4	0	3.15	2.93	-0.22	0	0	0	0	0	0	0	0
1/29/2025 20:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 20:34	64904	MILL_T1	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
1/29/2025 21:12	54502	ENOL_T2	1	1	0	0.2	0.5	0.3	-1.97	-1.97	1	1	0	600	600	0
1/29/2025 21:12	54505	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
1/29/2025 21:22	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2025 21:24	52402	GRPA_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/29/2025 21:24	52403	GRPA_T2	4	5	1	1	0.83	-0.17	-0.67	-0.75	0	0	0	0	0	0
1/29/2025 21:24	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/29/2025 21:24	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/29/2025 21:27	64901	MILL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/29/2025 21:27	64904	MILL_T1	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
1/29/2025 22:45	60404	DILL_T2	0	0	0	0	0	0	-0.33	-0.18	1	1	0	1200	1200	0
1/30/2025 2:18	60701	BREC_T1	0	0	0	0	0	0	-0.53	-0.55	1	1	0	600	600	0
1/30/2025 5:35	61803	EELI_T2	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
1/30/2025 7:59	53502	EVIL_T2	1	11	10	2.7	1.2	-1.5	0	0	0	0	0	0	0	0
1/30/2025 7:59	53501	EVIL_T2	2	2	0	0.5	0.75	0.25	-1.09	-1.12	2	2	0	1200	1200	0
1/30/2025 8:04	43202	MVIL_T2	4	2	-2	0.28	0	-0.28	0	0	0	0	0	0	0	0
1/30/2025 8:04	43201	MVIL_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
1/30/2025 8:06	55002	NEWP_T1	3	4	1	0.3	0.48	0.18	-0.16	-0.18	0	0	0	0	0	0
1/30/2025 8:06	41902	REED_T1	2	0	-2	0.5	0	-0.5	0.35	0.34	1	1	0	900	900	0
1/30/2025 8:07	66901	SHIL_T2	0	0	0	0	0	0	-1.68	-1.67	1	1	0	1200	1200	0
1/30/2025 8:08	49803	UNIV_T1	1	1	0	5.4	5.5	0.1	-0.94	-0.9	0	0	0	0	0	0
1/30/2025 8:12	11104	EGYP_T1	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
1/30/2025 8:12	11101	EGYP_T1	0	0	0	0	0	0	-0.66	-0.68	1	1	0	1200	1200	0
1/30/2025 8:13	45502	DERR_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
1/30/2025 8:13	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.6	0.58	2	2	0	1800	1800	0
1/30/2025 8:15	52402	GRPA_T2	2	5	3	0.35	0.37	0.02	0	0	0	0	0	0	0	0
1/30/2025 8:15	52403	GRPA_T2	4	6	2	0.58	0.52	-0.06	-1.08	-0.46	0	0	0	0	0	0
1/30/2025 8:15	52401	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/30/2025 8:17	52402	GRPA_T2	2	5	3	0.35	0.37	0.02	0	0	0	0	0	0	0	0
1/30/2025 8:17	52403	GRPA_T2	4	6	2	0.58	0.52	-0.06	-1.08	-0.46	0	0	0	0	0	0
1/30/2025 8:17	52401	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/30/2025 8:18	16101	BING_T2	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
1/30/2025 8:18	16102	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/30/2025 8:19	52502	PROG_T2	0	0	0	0	0	0	-0.39	0.56	1	0	-1	900	0	-900
1/30/2025 8:20	16102	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/30/2025 8:20	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 8:20	52502	PROG_T2	0	0	0	0	0	0	-0.78	1.12	2	0	-2	1800	0	-1800
1/30/2025 8:22	43301	WATS_T2	0	0	0	0	0	0	0.31	0.26	0	0	0	0	0	0
1/30/2025 8:23	55002	NEWP_T1	4	3	-1	0.43	0.5	0.07	-0.18	-0.17	0	0	0	0	0	0
1/30/2025 8:23	52502	PROG_T2	0	0	0	0	0	0	0.56	0.36	0	0	0	0	0	0
1/30/2025 8:26	43301	WATS_T2	0	0	0	0	0	0	0.31	0.26	0	0	0	0	0	0
1/30/2025 8:26	45502	DERR_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/30/2025 8:26	45501	DERR_T2	0	0	0	0	0	0	0.58	0.53	2	2	0	1800	1800	0
1/30/2025 8:30	20601	GRWO_T2	27	23	-4	0.56	0.36	-0.2	0.64	0.59	0	0	0	0	0	0
1/30/2025 8:30	54503	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 8:30	54505	ENOL_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
1/30/2025 8:30	54504	ENOL_T2	0	0	0	0	0	0	-1	-0.49	1	1	0	600	600	0
1/30/2025 8:30	54502	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
1/30/2025 8:32	16102	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/30/2025 8:32	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 8:33	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 8:35	55002	NEWP_T1	3	3	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
1/30/2025 8:35	55001	NEWP_T1	0	0	0	0	0	0	-0.81	-0.31	1	0	-1	600	0	-600
1/30/2025 8:36	44905	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 8:38	55002	NEWP_T1	3	3	0	0.3	0.5	0.2	-0.17	-0.19	0	0	0	0	0	0
1/30/2025 8:45	45501	DERR_T2	0	0	0	0	0	0	0.53	0.52	2	2	0	1800	1800	0
1/30/2025 8:45	62101	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 8:45	62106	ELAN_T1	0	0	0	0	0	0	0.59	0.73	0	0	0	0	0	0
1/30/2025 8:45	45502	DERR_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/30/2025 8:45	51604	DUKE_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 8:46	53501	EVIL_T2	2	2	0	0.9	0.95	0.05	-1.14	-1.19	2	2	0	1200	1200	0
1/30/2025 8:46	53502	EVIL_T2	1	1	0	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
1/30/2025 8:48	55002	NEWP_T1	3	5	2	0.5	0.56	0.06	-0.17	-0.19	0	0	0	0	0	0
1/30/2025 8:48	13302	ORVI_T2	16	40	24	0.19	0.25	0.06	-0.26	-0.43	0	0	0	0	0	0
1/30/2025 8:54	13704	SCHN_T2	0	0	0	0	0	0	-0.68	-0.72	0	0	0	0	0	0
1/30/2025 8:58	44801	EDAN_T2	0	0	0	0	0	0	-0.32	-0.24	0	0	0	0	0	0
1/30/2025 8:58	29402	BELT_T1	1	1	0	5.1	5.8	0.7	0	0	0	0	0	0	0	0
1/30/2025 9:00	60802	BUCK_T2	0	0	0	0	0	0	0.3	0.35	0	0	0	0	0	0
1/30/2025 9:00	66203	SISP_T2	0	0	0	0	0	0	-1	-1.07	2	2	0	1800	1800	0
1/30/2025 9:00	64904	MILL_T1	0	2	2	0	0.2	0.2	-0.36	-0.4	0	0	0	0	0	0
1/30/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
1/30/2025 9:00	40504	CRES_T1	0	28	28	0	0.21	0.21	0	0	0	0	0	0	0	0
1/30/2025 9:00	63501	HEID_TBK1-2	0	0	0	0	0	0	0.57	0.5	2	2	0	1800	1800	0
1/30/2025 9:00	44801	EDAN_T2	0	0	0	0	0	0	-0.32	-0.24	0	0	0	0	0	0
1/30/2025 9:00	64901	MILL_T1	13	38	25	0.15	0.17	0.02	0	0	0	0	0	0	0	0
1/30/2025 9:06	44901	SCOT_T2	113	198	85	0.23	0.41	0.18	-0.06	-0.07	0	0	0	0	0	0
1/30/2025 9:06	44902	SCOT_T2	441	610	169	0.35	0.49	0.14	0	0	0	0	0	0	0	0
1/30/2025 9:07	66505	SMAN_T2	0	2	2	0	0.2	0.2	-0.21	-0.16	1	1	0	900	900	0
1/30/2025 9:08	46004	BERW_T2	0	2	2	0	0	0	-0.62	-0.48	0	0	0	0	0	0
1/30/2025 9:08	46003	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/30/2025 9:08	66505	SMAN_T2	0	2	2	0	0.2	0.2	-0.21	-0.16	1	1	0	900	900	0
1/30/2025 9:08	44902	SCOT_T2	441	610	169	0.35	0.49	0.14	0	0	0	0	0	0	0	0
1/30/2025 9:08	44901	SCOT_T2	113	198	85	0.23	0.41	0.18	-0.07	-0.03	0	0	0	0	0	0
1/30/2025 9:11	27901	BCRK_T1	3	4	1	3.2	3	-0.2	0	0	0	0	0	0	0	0
1/30/2025 9:12	29402	BELT_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
1/30/2025 9:12	10805	CHIH_T2	1	1	0	7.2	7.2	0	-0.82	-0.78	1	1	0	600	600	0
1/30/2025 9:13	45501	DERR_T2	0	0	0	0	0	0	0.46	0.42	2	2	0	1800	1800	0
1/30/2025 9:13	54503	ENOL_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
1/30/2025 9:13	54506	ENOL_T2	0	0	0	0	0	0	0.45	0.32	1	1	0	600	600	0
1/30/2025 9:13	54505	ENOL_T2	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
1/30/2025 9:13	61502	EPET_T1	0	0	0	0	0	0	-1.2	-1.22	0	0	0	0	0	0
1/30/2025 9:13	54502	ENOL_T2	1	1	0	0.2	0.8	0.6	-2.05	-2.01	1	1	0	600	600	0
1/30/2025 9:15	63801	HEMP_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
1/30/2025 9:15	63804	HEMP_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
1/30/2025 9:15	29402	BELT_T1	1	1	0	5.2	5.7	0.5	0	0	0	0	0	0	0	0
1/30/2025 9:15	63802	HEMP_T1	0	1	1	0	0.2	0.2	0.16	0.23	0	0	0	0	0	0
1/30/2025 9:15	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
1/30/2025 9:15	54506	ENOL_T2	0	0	0	0	0	0	0.45	0.32	1	1	0	600	600	0
1/30/2025 9:15	63803	HEMP_T1	1	5	4	0.2	0.24	0.04	0	0	0	0	0	0	0	0
1/30/2025 9:15	54505	ENOL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
1/30/2025 9:15	54503	ENOL_T2	1	5	4	0.1	0.2	0.1	-0.37	-0.37	1	1	0	600	600	0
1/30/2025 9:16	61302	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 9:16	45501	DERR_T2	0	0	0	0	0	0	0.46	0.42	2	2	0	1800	1800	0
1/30/2025 9:16	61301	EARL_T1	0	0	0	0	0	0	0.29	0.33	0	0	0	0	0	0
1/30/2025 9:18	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 9:19	64802	MONE_T2	44	87	43	0.21	0.37	0.16	0.16	0.2	0	0	0	0	0	0
1/30/2025 9:19	63803	HEMP_T1	1	5	4	0.2	0.24	0.04	0	0	0	0	0	0	0	0
1/30/2025 9:19	63802	HEMP_T1	0	1	1	0	0.2	0.2	0.16	0.23	0	0	0	0	0	0
1/30/2025 9:19	63804	HEMP_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
1/30/2025 9:19	63801	HEMP_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
1/30/2025 9:19	64801	MONE_T2	22	75	53	0.17	0.33	0.16	0.09	0.04	0	0	0	0	0	0
1/30/2025 9:20	55002	NEWP_T1	5	8	3	0.56	1.01	0.45	-0.34	-0.36	0	0	0	0	0	0
1/30/2025 9:20	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/30/2025 9:22	13701	SOHN_T2	0	0	0	0	0	0	0.04	0.01	1	1	0	600	600	0
1/30/2025 9:23	55002	NEWP_T1	5	8	3	0.56	1.01	0.45	-0.18	-0.17	0	0	0	0	0	0
1/30/2025 9:23	46002	BERW_T2	0	0	0	0	0	0	-1.18	-1.18	1	1	0	900	900	0
1/30/2025 9:23	46004	BERW_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 9:23	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/30/2025 9:25	59202	THOM_T1	0	12	12	0	0.23	0.23	0	0	0	0	0	0	0	0
1/30/2025 9:25	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 9:28	53501	EVIL_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
1/30/2025 9:28	53502	EVIL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
1/30/2025 9:28	40101	HUNT_T2	12	12	0	0.98	0.53	-0.45	-0.77	-0.75	0	0	0	0	0	0
1/30/2025 9:31	52401	GRPA_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
1/30/2025 9:31	41301	FISH_T1	2	3	1	1.3	1.97	0.67	-0.26	-0.26	0	0	0	0	0	0
1/30/2025 9:31	52402	GRPA_T2	2	4	2	0.6	0.97	0.37	0	0	0	0	0	0	0	0
1/30/2025 9:31	52403	GRPA_T2	11	13	2	0.51	0.59	0.08	-0.64	-0.62	0	0	0	0	0	0
1/30/2025 9:33	20603	GRWO_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 9:33	61503	EPET_T1	0	0	0	0	0	0	-1.05	-0.42	0	0	0	0	0	0
1/30/2025 9:33	20601	GRWO_T2	6	8	2	0.6	1.03	0.43	0.54	0.56	0	0	0	0	0	0
1/30/2025 9:34	65005	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/30/2025 9:34	65004	NEFF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/30/2025 9:34	65001	NEFF_T2	190	213	23	0.18	0.24	0.06	-0.75	-0.68	1	1	0	1200	1200	0
1/30/2025 9:38	22601	KIMB_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/30/2025 9:38	22602	KIMB_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
1/30/2025 9:39	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 9:39	44302	BEAV_T2	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
1/30/2025 9:42	45501	DERR_T2	0	0	0	0	0	0	0.44	0.39	2	2	0	1800	1800	0
1/30/2025 9:43	24104	EHAZ_T1	35	50	15	0.17	0.22	0.05	-4.38	-4.3	2	2	0	2400	2400	0
1/30/2025 9:43	61302	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 9:43	61304	EARL_T1	0	0	0	0	0	0	0	0.07	0	0	0	0	0	0
1/30/2025 9:43	24102	EHAZ_T1	3	9	6	0.33	0.82	0.49	0	0	0	0	0	0	0	0
1/30/2025 9:43	42701	AUGU_T1	1	1	0	0.5	0.3	-0.2	0	0	2	2	0	1800	1800	0
1/30/2025 9:43	24103	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 9:43	24101	EHAZ_T1	61	57	-4	1.35	1.41	0.06	0	0	0	0	0	0	0	0
1/30/2025 9:43	24105	EHAZ_T1	4	4	0	6.33	6.28	-0.05	0	0	0	0	0	0	0	0
1/30/2025 9:44	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/30/2025 9:44	61302	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 9:44	61304	EARL_T1	0	0	0	0	0	0	0	0.07	0	0	0	0	0	0
1/30/2025 9:44	29402	BELT_T1	1	1	0	5.7	5.9	0.2	0	0	0	0	0	0	0	0
1/30/2025 9:45	61304	EARL_T1	0	0	0	0	0	0	0	0.07	0	0	0	0	0	0
1/30/2025 9:45	61302	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/30/2025 9:47	61302	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/30/2025 9:47	61304	EARL_T1	0	0	0	0	0	0	0	0.07	0	0	0	0	0	0
1/30/2025 9:49	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.48	-0.46	0	0	0	0	0	0
1/30/2025 9:49	55002	NEWP_T1	8	8	0	1.01	1.05	0.04	0	0	0	0	0	0	0	0
1/30/2025 9:50	65702	RVIL_T2	0	0	0	0	0	0	-2.74	-2.87	0	0	0	0	0	0
1/30/2025 9:51	57205	ROSS_T1	0	1	1	0	0.1	0.1	0.18	0.18	0	0	0	0	0	0
1/30/2025 9:51	65702	RVIL_T2	0	0	0	0	0	0	-1.37	-1.43	0	0	0	0	0	0
1/30/2025 9:51	57201	ROSS_T1	0	0	0	0	0	0	-0.55	-0.64	0	0	0	0	0	0
1/30/2025 9:51	22601	KIMB_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/30/2025 9:51	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
1/30/2025 9:52	65004	NEFF_T2	1	2	1	0.2	0.2	0	-0.47	-0.45	0	0	0	0	0	0
1/30/2025 9:52	65001	NEFF_T2	201	207	6	0.2	0.25	0.05	0	0	0	0	0	0	0	0
1/30/2025 9:52	65005	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/30/2025 9:53	57201	ROSS_T1	0	0	0	0	0	0	-0.55	-0.64	0	0	0	0	0	0
1/30/2025 9:53	57205	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 9:53	65702	RVIL_T2	0	0	0	0	0	0	-1.43	-1.41	0	0	0	0	0	0
1/30/2025 9:55	65702	RVIL_T2	0	0	0	0	0	0	-1.43	-1.41	0	0	0	0	0	0
1/30/2025 9:55	65703	RVIL_T1	0	0	0	0	0	0	-0.24	-0.09	0	0	0	0	0	0
1/30/2025 9:56	40201	BEGA_T2	2	3	1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
1/30/2025 9:57	60404	DILL_T2	0	1	1	0	0	0	-0.05	0.03	1	1	0	1200	1200	0
1/30/2025 9:58	20601	GRWO_T2	4	17	13	1.08	0.54	-0.54	0	0	0	0	0	0	0	0
1/30/2025 9:58	20603	GRWO_T2	0	3	3	0	7.2	7.2	-0.55	-0.55	1	1	0	900	900	0
1/30/2025 10:00	46802	HEPB_T1	3	4	1	0.77	0.73	-0.04	-1.24	-1.22	0	0	0	0	0	0
1/30/2025 10:02	63501	HEID_TBK1-2	0	0	0	0	0	0	0.16	0.17	1	1	0	900	900	0
1/30/2025 10:02	47203	FAXO_T2	1	1	0	1.6	1.6	0	-1.76	-1.73	1	1	0	1200	1200	0
1/30/2025 10:03	63501	HEID_TBK1-2	0	0	0	0	0	0	0.16	0.17	1	1	0	900	900	0
1/30/2025 10:06	64101	REFR_T1	2	3	1	0.3	0.4	0.1	-0.04	-0.04	0	0	0	0	0	0
1/30/2025 10:07	64101	REFR_T1	2	3	1	0.3	0.4	0.1	-0.16	-0.08	0	0	0	0	0	0
1/30/2025 10:08	64101	REFR_T1	2	3	1	0.3	0.4	0.1	-0.08	-0.04	0	0	0	0	0	0
1/30/2025 10:09	67401	WAKE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/30/2025 10:09	67402	WAKE_T2	1	1	0	0.2	0.1	-0.1	0.25	0.28	0	0	0	0	0	0
1/30/2025 10:10	64101	REFR_T1	2	3	1	0.3	0.4	0.1	-0.04	-0.02	0	0	0	0	0	0
1/30/2025 10:12	67402	WAKE_T2	1	1	0	0.2	0.1	-0.1	0.25	0.28	0	0	0	0	0	0
1/30/2025 10:12	53501	EVIL_T2	2	2	0	0.5	0.6	0.1	-1.23	-1.21	2	2	0	1200	1200	0
1/30/2025 10:12	53502	EVIL_T2	1	1	0	0.5	1.2	0.7	0	0	0	0	0	0	0	0
1/30/2025 10:12	67401	WAKE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/30/2025 10:14	53501	EVIL_T2	2	2	0	0.5	0.6	0.1	-1.23	-1.21	2	2	0	1200	1200	0
1/30/2025 10:14	20601	GRWO_T2	8	20	12	0.7	0.47	-0.23	0.57	0.56	0	0	0	0	0	0
1/30/2025 10:14	53502	EVIL_T2	1	1	0	0.5	1.2	0.7	0	0	0	0	0	0	0	0
1/30/2025 10:15	53502	EVIL_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
1/30/2025 10:15	53501	EVIL_T2	2	2	0	0.45	0.55	0.1	-1.23	-1.21	2	2	0	1200	1200	0
1/30/2025 10:17	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 10:17	53502	EVIL_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
1/30/2025 10:17	53501	EVIL_T2	2	2	0	0.45	0.55	0.1	-3.69	-3.62	6	6	0	3600	3600	0
1/30/2025 10:18	24202	PROV_T4	0	0	0	0	0	0	-0.6	-0.62	1	1	0	1200	1200	0
1/30/2025 10:20	46002	BERW_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
1/30/2025 10:20	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 10:20	46004	BERW_T2	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
1/30/2025 10:22	64101	REFR_T1	3	3	0	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
1/30/2025 10:22	55002	NEWP_T1	7	12	5	0.87	0.88	0.01	-0.15	-0.19	0	0	0	0	0	0
1/30/2025 10:23	64101	REFR_T1	3	3	0	0.4	0.33	-0.07	-0.1	-0.05	0	0	0	0	0	0
1/30/2025 10:24	64101	REFR_T1	3	3	0	0.4	0.33	-0.07	-0.04	-0.02	0	0	0	0	0	0
1/30/2025 10:24	59102	WALK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/30/2025 10:24	59101	WALK_T2	0	1	1	0	0.5	0.5	2.13	1.64	0	0	0	0	0	0
1/30/2025 10:26	64101	REFR_T1	3	3	0	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
1/30/2025 10:27	59102	WALK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/30/2025 10:27	59101	WALK_T2	0	1	1	0	0.5	0.5	2.13	1.64	0	0	0	0	0	0
1/30/2025 10:31	20601	GRWO_T2	17	3	-14	0.51	0.7	0.19	0.56	0.56	0	0	0	0	0	0
1/30/2025 10:31	59102	WALK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/30/2025 10:31	59101	WALK_T2	0	1	1	0	0.5	0.5	2.13	1.64	0	0	0	0	0	0
1/30/2025 10:31	40101	HUNT_T2	14	17	3	0.86	0.59	-0.27	-0.59	-0.66	0	0	0	0	0	0
1/30/2025 10:32	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1.02	0	0	0	0	0	0
1/30/2025 10:33	54201	PENN_T1	12	24	12	1.01	0.73	-0.28	0	0	0	0	0	0	0	0
1/30/2025 10:33	54205	PENN_T1	1	68	67	0.1	0.19	0.09	0	0	0	0	0	0	0	0
1/30/2025 10:33	54203	PENN_T1	24	201	177	1.27	0.32	-0.95	0.76	0.66	0	0	0	0	0	0
1/30/2025 10:34	45802	HEGI_T2	10	4	-6	0.18	0.17	-0.01	2.61	2.63	0	0	0	0	0	0
1/30/2025 10:34	58401	MORO_T1	0	0	0	0	0	0	-1.96	-2.02	2	2	0	1200	1200	0
1/30/2025 10:35	54201	PENN_T1	12	24	12	1.01	0.73	-0.28	1.89	1.94	0	0	0	0	0	0
1/30/2025 10:35	54205	PENN_T1	1	68	67	0.1	0.19	0.09	0	0	0	0	0	0	0	0
1/30/2025 10:35	58401	MORO_T1	0	0	0	0	0	0	-0.98	-1.01	1	1	0	600	600	0
1/30/2025 10:35	54203	PENN_T1	24	201	177	1.27	0.32	-0.95	0	0	0	0	0	0	0	0
1/30/2025 10:36	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 10:36	54203	PENN_T1	24	201	177	1.27	0.32	-0.95	0.66	0.68	0	0	0	0	0	0
1/30/2025 10:36	54201	PENN_T1	12	24	12	1.01	0.73	-0.28	0	0	0	0	0	0	0	0
1/30/2025 10:36	54202	PENN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
1/30/2025 10:36	54205	PENN_T1	1	68	67	0.1	0.19	0.09	0	0	0	0	0	0	0	0
1/30/2025 10:37	54205	PENN_T1	1	68	67	0.1	0.19	0.09	0	0	0	0	0	0	0	0
1/30/2025 10:37	46004	BERW_T2	0	0	0	0	0	0	-0.42	-0.62	0	0	0	0	0	0
1/30/2025 10:37	40101	HUNT_T2	14	17	3	0.86	0.59	-0.27	-0.66	-0.67	0	0	0	0	0	0
1/30/2025 10:37	46002	BERW_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
1/30/2025 10:37	54203	PENN_T1	24	201	177	1.27	0.32	-0.95	0	0	0	0	0	0	0	0
1/30/2025 10:37	54201	PENN_T1	12	24	12	1.01	0.73	-0.28	0.97	0.97	0	0	0	0	0	0
1/30/2025 10:38	54203	PENN_T1	24	201	177	1.27	0.32	-0.95	0.66	0.68	0	0	0	0	0	0
1/30/2025 10:38	13704	SCHN_T2	2	7	5	0.15	0.2	0.05	-0.79	-0.8	0	0	0	0	0	0
1/30/2025 10:38	13701	SCHN_T2	2	11	9	0.1	0.17	0.07	0	0	0	0	0	0	0	0
1/30/2025 10:38	54201	PENN_T1	12	24	12	1.01	0.73	-0.28	0	0	0	0	0	0	0	0
1/30/2025 10:38	54205	PENN_T1	1	68	67	0.1	0.19	0.09	0	0	0	0	0	0	0	0
1/30/2025 10:39	20403	ASHF_T2	4	21	17	0.63	0.29	-0.34	0.23	0.19	0	0	0	0	0	0
1/30/2025 10:39	20401	ASHF_T2	7	10	3	0.73	0.74	0.01	0	0	0	0	0	0	0	0
1/30/2025 10:39	20402	ASHF_T2	1	4	3	0.2	0.38	0.18	0	0	0	0	0	0	0	0
1/30/2025 10:40	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/30/2025 10:40	54601	SUMM_T2	6	5	-1	0.38	0.7	0.32	-1.82	-1.81	2	2	0	2100	2100	0
1/30/2025 10:40	42503	ALTA_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
1/30/2025 10:41	20403	ASHF_T2	4	21	17	0.63	0.29	-0.34	0.23	0.19	0	0	0	0	0	0
1/30/2025 10:41	20401	ASHF_T2	7	10	3	0.73	0.74	0.01	0	0	0	0	0	0	0	0
1/30/2025 10:41	20402	ASHF_T2	1	4	3	0.2	0.38	0.18	0	0	0	0	0	0	0	0
1/30/2025 10:42	20401	ASHF_T2	7	10	3	0.73	0.74	0.01	-0.78	-0.77	1	1	0	600	600	0
1/30/2025 10:42	20402	ASHF_T2	1	4	3	0.2	0.38	0.18	0	0	0	0	0	0	0	0
1/30/2025 10:42	20403	ASHF_T2	4	21	17	0.63	0.29	-0.34	0	0	0	0	0	0	0	0
1/30/2025 10:43	20402	ASHF_T2	1	4	3	0.2	0.38	0.18	0	0	0	0	0	0	0	0
1/30/2025 10:43	40201	BEGA_T2	3	10	7	0.47	0.56	0.09	0	0	0	0	0	0	0	0
1/30/2025 10:43	20403	ASHF_T2	4	21	17	0.63	0.29	-0.34	0	0	0	0	0	0	0	0
1/30/2025 10:43	20401	ASHF_T2	7	10	3	0.73	0.74	0.01	-0.78	-0.77	1	1	0	600	600	0
1/30/2025 10:44	20601	GRWO_T2	17	3	-14	0.51	0.7	0.19	0	0	0	0	0	0	0	0
1/30/2025 10:44	20603	GRWO_T2	0	0	0	0	0	0	-0.54	-0.56	1	1	0	900	900	0
1/30/2025 10:46	18001	ZION_T1	2	2	0	9.2	9.5	0.3	0	0	0	0	0	0	0	0
1/30/2025 10:47	52403	GRPA_T2	11	22	11	0.65	0.67	0.02	-1.24	-1.41	0	0	0	0	0	0
1/30/2025 10:47	41801	GOCI_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
1/30/2025 10:47	52402	GRPA_T2	3	13	10	0.83	0.73	-0.1	0	0	0	0	0	0	0	0
1/30/2025 10:47	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/30/2025 10:48	52403	GRPA_T2	11	22	11	0.65	0.67	0.02	0	0	0	0	0	0	0	0
1/30/2025 10:48	52401	GRPA_T2	0	1	1	0	0.2	0.2	-0.57	-0.56	0	0	0	0	0	0
1/30/2025 10:48	17805	GILB_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
1/30/2025 10:48	17804	GILB_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
1/30/2025 10:48	14801	TREI_T2	1	1	0	0.3	0.7	0.4	1.19	1.16	0	0	0	0	0	0
1/30/2025 10:48	52402	GRPA_T2	3	13	10	0.83	0.73	-0.1	0	0	0	0	0	0	0	0
1/30/2025 10:48	14802	TREI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 10:49	66303	MCGO_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
1/30/2025 10:49	66302	MCGO_T2	1	1	0	0.8	1	0.2	-1.55	-1.68	0	0	0	0	0	0
1/30/2025 10:49	42903	MIDD_T2	2	2	0	1.05	1.25	0.2	0	0	0	0	0	0	0	0
1/30/2025 10:49	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 10:49	42902	MIDD_T2	0	0	0	0	0	0	-0.44	-0.36	0	0	0	0	0	0
1/30/2025 10:53	52501	PROG_T1	6	0	-6	0.17	0	-0.17	0.52	0.52	1	1	0	300	300	0
1/30/2025 10:57	61801	EELI_T2	2	4	2	0.5	0.5	0	-0.33	-0.25	0	0	0	0	0	0
1/30/2025 10:57	61802	EELI_T2	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
1/30/2025 10:58	10801	CHHI_T1	1	1	0	1.3	1	-0.3	-0.65	-0.62	1	1	0	900	900	0
1/30/2025 10:58	54501	ENOL_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
1/30/2025 10:58	54505	ENOL_T2	1	2	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
1/30/2025 10:58	54504	ENOL_T2	0	0	0	0	0	0	-1.01	-1.01	1	1	0	600	600	0
1/30/2025 10:58	54502	ENOL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/30/2025 10:59	54502	ENOL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/30/2025 10:59	54505	ENOL_T2	1	2	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
1/30/2025 10:59	54501	ENOL_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
1/30/2025 11:00	10801	CHHI_T1	1	1	0	1	1	0	-0.65	-0.62	1	1	0	900	900	0
1/30/2025 11:01	61803	EELI_T2	0	0	0	0	0	0	0.99	0.96	0	0	0	0	0	0
1/30/2025 11:01	61801	EELI_T2	3	5	2	0.5	0.56	0.06	0	0	0	0	0	0	0	0
1/30/2025 11:05	58401	MORO_T1	0	1	1	0	0.4	0.4	-1.03	-1.03	1	1	0	600	600	0
1/30/2025 11:06	58401	MORO_T1	0	1	1	0	0.4	0.4	-1.03	-0.99	1	1	0	600	600	0
1/30/2025 11:06	13103	NHAM_T2	0	3	3	0	1.17	1.17	-1.64	-1.66	1	1	0	600	600	0
1/30/2025 11:07	58201	NEWV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/30/2025 11:07	58202	NEWV_T1	0	8	8	0	0.71	0.71	-0.17	-0.19	0	0	0	0	0	0
1/30/2025 11:09	63501	HEID_TBK1-2	1	7	6	0.1	0.37	0.27	0.39	0.39	2	2	0	1800	1800	0
1/30/2025 11:10	20403	ASHF_T2	21	18	-3	0.29	0.39	0.1	0	0	0	0	0	0	0	0
1/30/2025 11:10	20402	ASHF_T2	4	5	1	0.23	0.46	0.23	0	0	0	0	0	0	0	0
1/30/2025 11:10	20401	ASHF_T2	10	8	-2	0.73	1.01	0.28	-0.79	-0.81	1	1	0	600	600	0
1/30/2025 11:14	52402	GRPA_T2	5	13	8	0.72	0.83	0.11	0	0	0	0	0	0	0	0
1/30/2025 11:14	60901	DONG_T2	2	3	1	0.55	0.67	0.12	0	0	0	0	0	0	0	0
1/30/2025 11:14	20403	ASHF_T2	21	18	-3	0.29	0.39	0.1	0	0	0	0	0	0	0	0
1/30/2025 11:14	20401	ASHF_T2	10	8	-2	0.73	1.01	0.28	0	0	0	0	0	0	0	0
1/30/2025 11:14	52403	GRPA_T2	20	77	57	0.57	0.39	-0.18	0	0	0	0	0	0	0	0
1/30/2025 11:14	60902	DONG_T2	1	2	1	0.2	0.55	0.35	0.78	0.64	0	0	0	0	0	0
1/30/2025 11:14	60904	DONG_T2	1	3	2	0.2	0.47	0.27	0	0	0	0	0	0	0	0
1/30/2025 11:14	60903	DONG_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
1/30/2025 11:14	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 11:14	52401	GRPA_T2	1	1	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
1/30/2025 11:14	20402	ASHF_T2	4	5	1	0.23	0.46	0.23	0	0	0	0	0	0	0	0
1/30/2025 11:15	23401	HONE_T2	10	3	-7	0.42	0.2	-0.22	0.13	0.12	0	0	0	0	0	0
1/30/2025 11:18	52404	GRPA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
1/30/2025 11:18	52402	GRPA_T2	13	14	1	0.62	0.75	0.13	0	0	0	0	0	0	0	0
1/30/2025 11:18	52401	GRPA_T2	1	2	1	0.2	0.75	0.55	0	0	0	0	0	0	0	0
1/30/2025 11:18	52403	GRPA_T2	22	88	66	0.66	0.38	-0.28	-0.64	-0.72	0	0	0	0	0	0
1/30/2025 11:19	52006	LING_T2	2	2	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
1/30/2025 11:19	52004	LING_T2	5	4	-1	2.96	3.78	0.82	0.3	0.31	0	0	0	0	0	0
1/30/2025 11:19	52002	LING_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
1/30/2025 11:20	52003	LING_T1	4	3	-1	0.23	0.23	0	0	0	0	0	0	0	0	0
1/30/2025 11:20	16902	MECK_T1	83	113	30	0.34	0.37	0.03	0.22	0.21	0	0	0	0	0	0
1/30/2025 11:20	16901	MECK_T1	65	48	-17	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
1/30/2025 11:20	52001	LING_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
1/30/2025 11:24	52404	GRPA_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
1/30/2025 11:24	52401	GRPA_T2	1	2	1	0.2	0.75	0.55	0	0	0	0	0	0	0	0
1/30/2025 11:24	66203	SISP_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/30/2025 11:24	52402	GRPA_T2	13	14	1	0.62	0.75	0.13	0	0	0	0	0	0	0	0
1/30/2025 11:24	52403	GRPA_T2	22	88	66	0.66	0.38	-0.28	-0.72	-0.71	0	0	0	0	0	0
1/30/2025 11:26	52006	LING_T2	2	2	0	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
1/30/2025 11:26	52002	LING_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
1/30/2025 11:26	52004	LING_T2	5	4	-1	2.96	3.78	0.82	0	0	0	0	0	0	0	0
1/30/2025 11:32	16902	MECK_T1	59	128	69	0.3	0.41	0.11	0.21	0.21	0	0	0	0	0	0
1/30/2025 11:32	16901	MECK_T1	23	76	53	0.24	0.28	0.04	0	0	0	0	0	0	0	0
1/30/2025 11:34	64802	MONE_T2	53	92	39	0.33	0.37	0.04	0	0	0	0	0	0	0	0
1/30/2025 11:34	64801	MONE_T2	33	79	46	0.19	0.29	0.1	0	0	0	0	0	0	0	0
1/30/2025 11:37	58201	NEWV_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/30/2025 11:37	64801	MONE_T2	33	79	46	0.19	0.29	0.1	0	0	0	0	0	0	0	0
1/30/2025 11:37	58202	NEWV_T1	8	8	0	0.71	0.75	0.04	-0.19	-0.14	0	0	0	0	0	0
1/30/2025 11:37	64802	MONE_T2	53	92	39	0.33	0.37	0.04	0	0	0	0	0	0	0	0
1/30/2025 11:40	53101	WTWN_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
1/30/2025 11:40	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 11:41	55105	WERT_T1	3	0	-3	0.4	0	-0.4	0.3	0.3	0	0	0	0	0	0
1/30/2025 11:41	42701	AUGU_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
1/30/2025 11:42	42701	AUGU_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
1/30/2025 11:43	61801	EELI_T2	5	5	0	0.56	0.58	0.02	0	0	0	0	0	0	0	0
1/30/2025 11:43	61803	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 11:43	61802	EELI_T2	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
1/30/2025 11:44	16801	WAGN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 11:44	17802	GILB_T1	3	3	0	0.5	0.67	0.17	0.14	0.28	0	0	0	0	0	0
1/30/2025 11:45	40201	BEGA_T2	9	11	2	0.49	0.52	0.03	0	0	0	0	0	0	0	0
1/30/2025 11:45	20601	GRWO_T2	2	1	-1	0.35	0.1	-0.25	0.55	0.52	0	0	0	0	0	0
1/30/2025 11:45	20603	GRWO_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/30/2025 11:45	61502	EPET_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
1/30/2025 11:45	61505	EPET_T1	0	0	0	0	0	0	0.25	0.21	0	0	0	0	0	0
1/30/2025 11:46	12003	HATF_T1	0	0	0	0	0	0	1.16	1.06	1	1	0	1200	1200	0
1/30/2025 11:46	60901	DONG_T2	3	3	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
1/30/2025 11:46	60902	DONG_T2	3	2	-1	0.37	0.3	-0.07	0.69	0.6	0	0	0	0	0	0
1/30/2025 11:46	12006	HATF_T1	2	2	0	0.7	0.55	-0.15	1	0.83	1	1	0	1200	1200	0
1/30/2025 11:46	60903	DONG_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
1/30/2025 11:46	12002	HATF_T1	0	0	0	0	0	0	-1.32	-1.3	2	2	0	2400	2400	0
1/30/2025 11:46	60904	DONG_T2	3	2	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
1/30/2025 11:48	12002	HATF_T1	0	0	0	0	0	0	-0.66	-0.65	1	1	0	1200	1200	0
1/30/2025 11:48	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 11:48	12006	HATF_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
1/30/2025 11:50	12002	HATF_T1	0	0	0	0	0	0	-0.66	-0.65	1	1	0	1200	1200	0
1/30/2025 11:50	12006	HATF_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
1/30/2025 11:51	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 11:54	46004	BERW_T2	1	3	2	0.2	0.15	-0.05	-0.63	-0.6	0	0	0	0	0	0
1/30/2025 11:56	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 11:56	43402	BENT_T1	3	2	-1	0.7	0.55	-0.15	-0.92	-0.91	1	1	0	900	900	0
1/30/2025 11:58	43402	BENT_T1	3	2	-1	0.7	0.55	-0.15	-0.92	-0.91	1	1	0	900	900	0
1/30/2025 11:58	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 11:59	52402	GRPA_T2	11	10	-1	0.78	0.76	-0.02	0	0	0	0	0	0	0	0
1/30/2025 11:59	52403	GRPA_T2	42	127	85	0.44	0.44	0	0	0	0	0	0	0	0	0
1/30/2025 11:59	52404	GRPA_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
1/30/2025 11:59	52401	GRPA_T2	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
1/30/2025 12:00	40802	EXCH_T2	0	0	0	0	0	0	-0.18	0.2	0	0	0	0	0	0
1/30/2025 12:01	52403	GRPA_T2	118	114	-4	0.43	0.37	-0.06	-0.73	-0.77	0	0	0	0	0	0
1/30/2025 12:01	61701	ELIZ_T1	1	1	0	6.3	6.4	0.1	0.15	0.24	0	0	0	0	0	0
1/30/2025 12:01	52402	GRPA_T2	8	11	3	0.78	0.64	-0.14	0	0	0	0	0	0	0	0
1/30/2025 12:01	40802	EXCH_T2	0	0	0	0	0	0	-0.18	0.2	0	0	0	0	0	0
1/30/2025 12:01	52404	GRPA_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
1/30/2025 12:01	52401	GRPA_T2	2	2	0	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
1/30/2025 12:01	61703	ELIZ_T1	4	2	-2	0.35	0.35	0	0	0	0	0	0	0	0	0
1/30/2025 12:02	10107	ALLE_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 12:02	52403	GRPA_T2	118	114	-4	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
1/30/2025 12:02	52401	GRPA_T2	2	2	0	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
1/30/2025 12:02	10101	ALLE_T3	14	22	8	1.06	1.82	0.76	0	0	0	0	0	0	0	0
1/30/2025 12:02	52402	GRPA_T2	8	11	3	0.78	0.64	-0.14	0	0	0	0	0	0	0	0
1/30/2025 12:02	52404	GRPA_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
1/30/2025 12:02	10105	ALLE_T3	8	11	3	1.84	1.12	-0.72	0	0	0	0	0	0	0	0
1/30/2025 12:02	40101	HUNT_T2	22	14	-8	0.73	0.58	-0.15	-0.64	-0.77	0	0	0	0	0	0
1/30/2025 12:04	11301	EMMA_T1	0	1	1	0	0.1	0.1	-0.74	-0.75	0	0	0	0	0	0
1/30/2025 12:04	11302	EMMA_T1	1	1	0	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
1/30/2025 12:04	11303	EMMA_T1	2	2	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
1/30/2025 12:06	13704	SCHN_T2	0	3	3	0	0.13	0.13	-0.3	-0.26	0	0	0	0	0	0
1/30/2025 12:06	13701	SCHN_T2	3	2	-1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
1/30/2025 12:06	28403	HART_T2	0	0	0	0	0	0	-0.82	-0.82	1	1	0	900	900	0
1/30/2025 12:06	40101	HUNT_T2	22	14	-8	0.73	0.58	-0.15	0	0	0	0	0	0	0	0
1/30/2025 12:10	16302	ALPA_T2	1	1	0	0.3	0.4	0.1	-0.52	-0.62	0	0	0	0	0	0
1/30/2025 12:12	14204	EALL_T2	0	0	0	0	0	0	-0.45	-0.52	0	0	0	0	0	0
1/30/2025 12:13	60201	ATGL_T2	1	5	4	0.1	0.16	0.06	0.93	0.95	0	0	0	0	0	0
1/30/2025 12:15	64203	KINZ_T1	1	0	-1	0.2	0	-0.2	0.71	0.81	0	0	0	0	0	0
1/30/2025 12:15	61803	EELI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/30/2025 12:15	64204	KINZ_T1	60	67	7	0.58	0.65	0.07	0	0	0	0	0	0	0	0
1/30/2025 12:15	61801	EELI_T2	5	5	0	0.46	0.6	0.14	0	0	0	0	0	0	0	0
1/30/2025 12:15	64202	KINZ_T1	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0	0
1/30/2025 12:18	13502	MCMI_T1	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
1/30/2025 12:18	12006	HATF_T1	2	2	0	0.85	0	-0.85	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/30/2025 12:18	12007	HATF_T1	0	0	0	0	0	0	-0.46	-0.3	3	3	0	3600	3600	0
1/30/2025 12:18	12002	HATF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
1/30/2025 12:19	64204	KINZ_T1	60	67	7	0.58	0.65	0.07	0	0	0	0	0	0	0	0
1/30/2025 12:19	64203	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/30/2025 12:19	64202	KINZ_T1	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0	0
1/30/2025 12:23	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 12:24	58402	MORO_T1	0	0	0	0	0	0	-0.04	-0.02	2	2	0	1500	1500	0
1/30/2025 12:24	58401	MORO_T1	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
1/30/2025 12:25	59101	WALK_T2	0	2	2	0	0.9	0.9	2.26	1.95	0	0	0	0	0	0
1/30/2025 12:25	61302	EARL_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
1/30/2025 12:25	59102	WALK_T2	2	4	2	0.3	0.6	0.3	0	0	0	0	0	0	0	0
1/30/2025 12:25	61304	EARL_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
1/30/2025 12:25	61303	EARL_T1	0	0	0	0	0	0	0.41	0.46	0	0	0	0	0	0
1/30/2025 12:26	60201	ATGL_T2	5	4	-1	0.16	0.15	-0.01	0.95	1.04	0	0	0	0	0	0
1/30/2025 12:26	60701	BREC_T1	4	4	0	0.33	0.3	-0.03	-0.42	-0.4	2	2	0	1200	1200	0
1/30/2025 12:27	60701	BREC_T1	4	4	0	0.33	0.3	-0.03	-1.25	-1.21	6	6	0	3600	3600	0
1/30/2025 12:29	40201	BEGA_T2	7	9	2	0.29	0.34	0.05	0	0	0	0	0	0	0	0
1/30/2025 12:29	60701	BREC_T1	4	4	0	0.33	0.3	-0.03	-0.42	-0.4	2	2	0	1200	1200	0
1/30/2025 12:31	17802	GILB_T1	3	4	1	0.73	0.55	-0.18	0.26	0.23	0	0	0	0	0	0
1/30/2025 12:34	48301	ORWI_T1	2	2	0	5.1	5.2	0.1	-0.3	-0.25	1	1	0	900	900	0
1/30/2025 12:35	67303	WYOM_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
1/30/2025 12:37	57205	ROSS_T1	3	2	-1	0.7	0.95	0.25	0	0	0	0	0	0	0	0
1/30/2025 12:37	57201	ROSS_T1	1	1	0	0.2	0.1	-0.1	-0.67	-0.57	0	0	0	0	0	0
1/30/2025 12:40	57201	ROSS_T1	1	1	0	0.2	0.1	-0.1	-0.67	-0.57	0	0	0	0	0	0
1/30/2025 12:40	57205	ROSS_T1	3	2	-1	0.7	0.95	0.25	0	0	0	0	0	0	0	0
1/30/2025 12:42	12001	HATF_T1	0	0	0	0	0	0	1.18	1.22	1	1	0	600	600	0
1/30/2025 12:42	12006	HATF_T1	2	2	0	1.65	0	-1.65	0	0	0	0	0	0	0	0
1/30/2025 12:42	12002	HATF_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/30/2025 12:43	52402	GRPA_T2	11	17	6	0.47	0.57	0.1	0	0	0	0	0	0	0	0
1/30/2025 12:43	52403	GRPA_T2	107	43	-64	0.32	0.59	0.27	-0.8	-0.76	0	0	0	0	0	0
1/30/2025 12:43	52404	GRPA_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
1/30/2025 12:43	52401	GRPA_T2	2	1	-1	0.45	0.8	0.35	0	0	0	0	0	0	0	0
1/30/2025 12:44	10805	CHHI_T2	1	1	0	7.5	7.9	0.4	-0.86	-0.86	1	1	0	600	600	0
1/30/2025 12:47	66302	MCGO_T2	1	1	0	1	0.9	-0.1	-0.95	-0.9	0	0	0	0	0	0
1/30/2025 12:47	61801	EELI_T2	5	4	-1	0.58	0.63	0.05	-0.39	-0.37	0	0	0	0	0	0
1/30/2025 12:47	66303	MCGO_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 12:48	17802	GILB_T1	4	4	0	0.55	0.4	-0.15	0.23	0.24	0	0	0	0	0	0
1/30/2025 12:49	66302	MCGO_T2	1	1	0	1	0.9	-0.1	-0.95	-0.9	0	0	0	0	0	0
1/30/2025 12:49	66303	MCGO_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 12:50	11303	EMMA_T1	3	4	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/30/2025 12:50	63501	HEID_TBK1-2	6	17	11	0.23	0.36	0.13	0.04	0.24	1	1	0	900	900	0
1/30/2025 12:50	11301	EMMA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 12:50	11302	EMMA_T1	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
1/30/2025 12:50	66303	MCGO_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 12:50	66302	MCGO_T2	1	1	0	1	0.9	-0.1	-0.95	-0.9	0	0	0	0	0	0
1/30/2025 12:51	63501	HEID_TBK1-2	6	17	11	0.23	0.36	0.13	0.04	0.24	1	1	0	900	900	0
1/30/2025 12:52	63501	HEID_TBK1-2	6	17	11	0.23	0.36	0.13	0.24	0.16	1	1	0	900	900	0
1/30/2025 12:53	57006	WHHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/30/2025 12:53	57002	WHHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/30/2025 12:54	63501	HEID_TBK1-2	6	17	11	0.23	0.36	0.13	0.24	0.16	1	1	0	900	900	0
1/30/2025 12:54	57002	WHHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/30/2025 12:54	57006	WHHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/30/2025 12:54	57001	WHHI_T2	0	0	0	0	0	0	-1.39	-1.41	1	1	0	900	900	0
1/30/2025 12:55	42701	AUGU_T1	1	1	0	0.6	0.5	-0.1	0	0	2	2	0	1800	1800	0
1/30/2025 12:56	57002	WHHI_T2	1	1	0	0.1	0.1	0	-1.16	-1.17	1	1	0	1200	1200	0
1/30/2025 12:56	57006	WHHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/30/2025 12:57	46002	BERW_T2	0	0	0	0	0	0	-0.58	-0.58	1	1	0	900	900	0
1/30/2025 12:58	24001	WIBA_T1	0	0	0	0	0	0	1.16	1.15	0	0	0	0	0	0
1/30/2025 12:58	24004	WIBA_T1	62	96	34	0.14	0.15	0.01	0	0	0	0	0	0	0	0
1/30/2025 13:03	17802	GILB_T1	4	4	0	0.38	0.53	0.15	0.24	0.25	0	0	0	0	0	0
1/30/2025 13:04	65503	MOJO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/30/2025 13:04	65502	MOJO_T2	0	0	0	0	0	0	-0.06	0.21	0	0	0	0	0	0
1/30/2025 13:05	60502	NMAN_T2	1	1	0	0.6	0.7	0.1	-0.27	-0.21	0	0	0	0	0	0
1/30/2025 13:05	60504	NMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/30/2025 13:05	60501	NMAN_T2	40	38	-2	0.24	0.25	0.01	0	0	0	0	0	0	0	0
1/30/2025 13:05	65503	MOJO_T2	1	0	-1	0.1	0	-0.1	-1.23	-0.81	1	1	0	900	900	0
1/30/2025 13:05	65502	MOJO_T2	0	0	0	0	0	0	-0.12	0.42	0	0	0	0	0	0
1/30/2025 13:06	14801	TREI_T2	4	3	-1	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
1/30/2025 13:06	65503	MOJO_T2	1	0	-1	0.1	0	-0.1	-1.23	-0.81	1	1	0	900	900	0
1/30/2025 13:06	14802	TREI_T2	1	2	1	0.1	0.1	0	0.41	0.42	0	0	0	0	0	0
1/30/2025 13:07	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 13:07	60502	NMAN_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/30/2025 13:07	65503	MOJO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/30/2025 13:07	60501	NMAN_T2	40	38	-2	0.24	0.25	0.01	0	0	0	0	0	0	0	0
1/30/2025 13:07	60504	NMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/30/2025 13:09	60504	NMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/30/2025 13:09	65503	MOJO_T2	1	0	-1	0.1	0	-0.1	-0.81	-0.86	1	1	0	900	900	0
1/30/2025 13:09	60502	NMAN_T2	1	1	0	0.6	0.7	0.1	-0.21	-0.23	0	0	0	0	0	0
1/30/2025 13:09	60501	NMAN_T2	40	38	-2	0.24	0.25	0.01	0	0	0	0	0	0	0	0
1/30/2025 13:10	60504	NMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/30/2025 13:10	40201	BEGA_T2	1	7	6	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
1/30/2025 13:10	60501	NMAN_T2	40	38	-2	0.24	0.25	0.01	0	0	0	0	0	0	0	0
1/30/2025 13:10	60502	NMAN_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
1/30/2025 13:10	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 13:11	60502	NMAN_T2	1	1	0	0.6	0.7	0.1	-0.21	-0.23	0	0	0	0	0	0
1/30/2025 13:11	60501	NMAN_T2	40	38	-2	0.24	0.25	0.01	0	0	0	0	0	0	0	0
1/30/2025 13:11	60504	NMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
1/30/2025 13:12	11101	EGYP_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/30/2025 13:12	11104	EGYP_T1	2	1	-1	0.85	0	-0.85	1.16	1.05	0	0	0	0	0	0
1/30/2025 13:13	17804	GILB_T2	1	1	0	0.1	1.1	1	-0.54	-0.53	0	0	0	0	0	0
1/30/2025 13:14	11101	EGYP_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
1/30/2025 13:14	11104	EGYP_T1	2	1	-1	0.85	0	-0.85	0.58	0.52	0	0	0	0	0	0
1/30/2025 13:16	11104	EGYP_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
1/30/2025 13:16	11101	EGYP_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
1/30/2025 13:20	13904	SEID_T1	11	14	3	0.31	0.18	-0.13	0	0	0	0	0	0	0	0
1/30/2025 13:20	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 13:30	11202	ELHE_T2	0	0	0	0	0	0	0.42	0.42	1	1	0	1200	1200	0
1/30/2025 13:30	47203	FAXO_T2	1	1	0	1.7	2.1	0.4	0	0	0	0	0	0	0	0
1/30/2025 13:30	47202	FAXO_T2	0	0	0	0	0	0	-2.26	-2.29	0	0	0	0	0	0
1/30/2025 13:31	40801	EXCH_T2	0	0	0	0	0	0	-0.47	-0.44	1	1	0	1200	1200	0
1/30/2025 13:35	44202	POIN_T2	0	0	0	0	0	0	-0.65	-0.44	1	1	0	1200	1200	0
1/30/2025 13:35	43202	MVIL_T2	8	1	-7	0.28	0.7	0.42	-0.59	-0.57	0	0	0	0	0	0
1/30/2025 13:36	12603	MACA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/30/2025 13:36	12604	MACA_T1	0	1	1	0	0.1	0.1	0.37	0.34	0	0	0	0	0	0
1/30/2025 13:36	12602	MACA_T1	64	10	-54	0.24	0.13	-0.11	-0.69	-0.72	0	0	0	0	0	0
1/30/2025 13:36	12601	MACA_T1	2	2	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
1/30/2025 13:36	12605	MACA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/30/2025 13:37	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 13:43	67502	WEWI_T2	2	9	7	0.4	0.32	-0.08	0	0	0	0	0	0	0	0
1/30/2025 13:44	10801	CHHI_T1	3	2	-1	0.13	0.3	0.17	-0.67	-0.72	1	1	0	900	900	0
1/30/2025 13:45	54505	ENOL_T2	1	1	0	1.1	1	-0.1	-0.64	-0.66	0	0	0	0	0	0
1/30/2025 13:45	54502	ENOL_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
1/30/2025 13:45	61801	EELI_T2	3	5	2	0.73	0.62	-0.11	-0.37	-0.36	0	0	0	0	0	0
1/30/2025 13:45	54501	ENOL_T2	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
1/30/2025 13:46	54501	ENOL_T2	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
1/30/2025 13:46	54502	ENOL_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
1/30/2025 13:46	54505	ENOL_T2	1	1	0	1.1	1	-0.1	-0.64	-0.66	0	0	0	0	0	0
1/30/2025 13:49	24204	PROV_T3	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 13:49	24201	PROV_T3	3	3	0	5.77	5.83	0.06	-1.43	-1.4	1	1	0	1200	1200	0
1/30/2025 13:50	13904	SEID_T1	9	16	7	0.18	0.37	0.19	0	0	0	0	0	0	0	0
1/30/2025 13:50	13905	SEID_T1	0	0	0	0	0	0	-1.02	-1.04	1	1	0	1200	1200	0
1/30/2025 13:52	46102	MACI_T1	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
1/30/2025 13:55	54603	SUMM_T2	2	0	-2	0.15	0	-0.15	-0.83	-0.91	2	2	0	1800	1800	0
1/30/2025 13:55	54601	SUMM_T2	9	6	-3	0.79	0.6	-0.19	0	0	0	0	0	0	0	0
1/30/2025 13:57	20603	GRWO_T2	6	0	-6	0.12	0	-0.12	-0.56	-0.56	1	1	0	900	900	0
1/30/2025 13:57	20601	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 13:57	20602	GRWO_T2	0	9	9	0	0.34	0.34	0	0	0	0	0	0	0	0
1/30/2025 14:04	58102	NEKI_T1	2	2	0	0.75	0.8	0.05	0.3	0.32	0	0	0	0	0	0
1/30/2025 14:04	58101	NEKI_T1	2	1	-1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
1/30/2025 14:06	44901	SCOT_T2	69	69	0	0.23	0.2	-0.03	0.02	0	0	0	0	0	0	0
1/30/2025 14:06	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 14:06	44902	SCOT_T2	402	432	30	0.21	0.3	0.09	0	0	0	0	0	0	0	0
1/30/2025 14:08	44902	SCOT_T2	402	432	30	0.21	0.3	0.09	-0.96	-0.96	0	0	0	0	0	0
1/30/2025 14:08	44901	SCOT_T2	69	69	0	0.23	0.2	-0.03	0	-0.22	0	0	0	0	0	0
1/30/2025 14:09	44902	SCOT_T2	402	432	30	0.21	0.3	0.09	-0.96	-0.96	0	0	0	0	0	0
1/30/2025 14:09	44901	SCOT_T2	69	69	0	0.23	0.2	-0.03	0	-0.22	0	0	0	0	0	0
1/30/2025 14:10	17001	RIRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 14:11	44901	SCOT_T2	69	69	0	0.23	0.2	-0.03	0	-0.22	0	0	0	0	0	0
1/30/2025 14:11	44902	SCOT_T2	402	432	30	0.21	0.3	0.09	0	0	0	0	0	0	0	0
1/30/2025 14:12	10801	CHHI_T1	0	0	0	0	0	0	-0.75	-0.67	1	1	0	900	900	0
1/30/2025 14:12	57002	WHHI_T2	2	2	0	0.2	0.15	-0.05	-1.2	-1.19	1	1	0	1200	1200	0
1/30/2025 14:12	57005	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/30/2025 14:12	44901	SCOT_T2	69	69	0	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
1/30/2025 14:12	57006	WHHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/30/2025 14:12	44902	SCOT_T2	402	432	30	0.21	0.3	0.09	-0.96	-0.96	0	0	0	0	0	0
1/30/2025 14:13	57005	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/30/2025 14:13	57006	WHHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/30/2025 14:13	57002	WHHI_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
1/30/2025 14:14	60904	DONG_T2	7	1	-6	0.19	0.3	0.11	0	0	0	0	0	0	0	0
1/30/2025 14:14	60903	DONG_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
1/30/2025 14:14	60902	DONG_T2	6	2	-4	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
1/30/2025 14:14	60901	DONG_T2	6	3	-3	0.43	0.43	0	0	0	0	0	0	0	0	0
1/30/2025 14:17	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 14:19	58101	NEKI_T1	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
1/30/2025 14:19	44301	BEAV_T2	0	0	0	0	0	0	-0.31	-0.6	2	1	-1	1500	600	-900
1/30/2025 14:19	58102	NEKI_T1	2	1	-1	0.8	1.4	0.6	0.32	0.33	0	0	0	0	0	0
1/30/2025 14:21	54203	PENN_T1	301	322	21	0.36	0.35	-0.01	0	0	0	0	0	0	0	0
1/30/2025 14:21	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 14:21	54201	PENN_T1	64	52	-12	0.45	0.5	0.05	2.05	1.89	0	0	0	0	0	0
1/30/2025 14:21	54205	PENN_T1	154	154	0	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
1/30/2025 14:21	54206	PENN_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
1/30/2025 14:23	54205	PENN_T1	154	154	0	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
1/30/2025 14:23	54201	PENN_T1	64	52	-12	0.45	0.5	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/30/2025 14:23	54203	PENN_T1	301	322	21	0.36	0.35	-0.01	0.69	0.64	0	0	0	0	0	0
1/30/2025 14:28	10801	CHHI_T1	0	0	0	0	0	0	-0.67	-0.71	1	1	0	900	900	0
1/30/2025 14:30	63803	HEMP_T1	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
1/30/2025 14:30	63801	HEMP_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
1/30/2025 14:30	63804	HEMP_T1	1	1	0	6.3	6.3	0	0.96	0.94	0	0	0	0	0	0
1/30/2025 14:32	44301	BEAV_T2	0	0	0	0	0	0	-0.6	-0.62	1	1	0	600	600	0
1/30/2025 14:33	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 14:37	57205	ROSS_T1	1	1	0	0.6	0.3	-0.3	0.13	0.13	0	0	0	0	0	0
1/30/2025 14:38	13702	SCHN_T1	0	0	0	0	0	0	0.71	0.7	0	0	0	0	0	0
1/30/2025 14:39	57205	ROSS_T1	1	1	0	0.6	0.3	-0.3	0.13	0.13	0	0	0	0	0	0
1/30/2025 14:41	60803	BUCK_T1	40	28	-12	0.66	0.68	0.02	-0.54	-0.54	1	1	0	600	600	0
1/30/2025 14:41	60801	BUCK_T1	86	65	-21	0.53	0.39	-0.14	-0.01	0.06	0	0	0	0	0	0
1/30/2025 14:42	29401	BELT_T1	85	75	-10	0.36	0.29	-0.07	0	0	0	0	0	0	0	0
1/30/2025 14:42	60801	BUCK_T1	86	65	-21	0.53	0.39	-0.14	0	0	0	0	0	0	0	0
1/30/2025 14:42	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 14:42	60803	BUCK_T1	40	28	-12	0.66	0.68	0.02	0	0	0	0	0	0	0	0
1/30/2025 14:42	29402	BELT_T1	20	26	6	0.64	0.53	-0.11	0	0	0	0	0	0	0	0
1/30/2025 14:43	60803	BUCK_T1	40	28	-12	0.66	0.68	0.02	-1.08	-1.08	2	2	0	1200	1200	0
1/30/2025 14:43	60801	BUCK_T1	86	65	-21	0.53	0.39	-0.14	-0.01	0.06	0	0	0	0	0	0
1/30/2025 14:44	53901	HALI_T2	1	1	0	0.9	0.9	0	-1	-1.03	0	0	0	0	0	0
1/30/2025 14:44	60801	BUCK_T1	86	65	-21	0.53	0.39	-0.14	-0.01	0.06	0	0	0	0	0	0
1/30/2025 14:44	53902	HALI_T2	2	1	-1	3.1	5.7	2.6	0	0	0	0	0	0	0	0
1/30/2025 14:44	60803	BUCK_T1	40	28	-12	0.66	0.68	0.02	0	0	0	0	0	0	0	0
1/30/2025 14:44	53903	HALI_T2	4	4	0	1	1.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 14:45	22003	BOHE_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/30/2025 14:45	22002	BOHE_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
1/30/2025 14:45	60803	BUCK_T1	26	43	17	0.7	0.56	-0.14	-1.08	-1.08	2	2	0	1200	1200	0
1/30/2025 14:45	60801	BUCK_T1	60	76	16	0.36	0.5	0.14	0	0	0	0	0	0	0	0
1/30/2025 14:47	53903	HALI_T2	4	3	-1	1.1	0.97	-0.13	0	0	0	0	0	0	0	0
1/30/2025 14:47	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
1/30/2025 14:47	53901	HALI_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
1/30/2025 14:48	20601	GRWO_T2	1	0	-1	0.6	0	-0.6	0.5	0.48	0	0	0	0	0	0
1/30/2025 14:48	62105	ELAN_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
1/30/2025 14:48	62106	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/30/2025 14:49	53901	HALI_T2	1	1	0	0.6	0.9	0.3	-1	-1.03	0	0	0	0	0	0
1/30/2025 14:49	53903	HALI_T2	4	3	-1	1.1	0.97	-0.13	0	0	0	0	0	0	0	0
1/30/2025 14:49	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
1/30/2025 14:50	53902	HALI_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
1/30/2025 14:50	53903	HALI_T2	4	3	-1	1.1	0.97	-0.13	0	0	0	0	0	0	0	0
1/30/2025 14:50	53901	HALI_T2	1	1	0	0.6	0.9	0.3	-2	-2.06	0	0	0	0	0	0
1/30/2025 15:06	16102	BING_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/30/2025 15:09	57205	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/30/2025 15:09	57203	ROSS_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
1/30/2025 15:16	63804	HEMP_T1	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
1/30/2025 15:16	63801	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/30/2025 15:16	63803	HEMP_T1	1	1	0	0.1	0.1	0	0.35	0.22	0	0	0	0	0	0
1/30/2025 15:18	16102	BING_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
1/30/2025 15:18	63803	HEMP_T1	1	1	0	0.1	0.1	0	0.17	0.11	0	0	0	0	0	0
1/30/2025 15:18	63801	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/30/2025 15:18	63804	HEMP_T1	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
1/30/2025 15:20	16102	BING_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
1/30/2025 15:23	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 15:49	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 15:55	28102	TWLA_T2	0	1	1	0	0	0	0.22	0.23	0	0	0	0	0	0
1/30/2025 16:00	60404	DILL_T2	0	0	0	0	0	0	-0.07	-0.22	1	1	0	1200	1200	0
1/30/2025 16:08	63501	HEID_TBK1-2	1	1	0	1.7	0.9	-0.8	-0.37	-0.43	1	1	0	900	900	0
1/30/2025 16:15	61305	EARL_T1	0	0	0	0	0	0	0.48	0.38	1	2	1	900	1500	600
1/30/2025 16:19	58302	NOTT_T1	0	0	0	0	0	0	0	-0.01	1	1	0	900	900	0
1/30/2025 16:22	67401	WAKE_T2	3	1	-2	0.1	0.1	0	-1.14	-1.17	0	0	0	0	0	0
1/30/2025 16:24	42504	ALTA_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
1/30/2025 16:24	42501	ALTA_T2	0	0	0	0	0	0	0	0.1	2	2	0	1200	1200	0
1/30/2025 16:25	28102	TWLA_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
1/30/2025 16:30	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
1/30/2025 16:30	53901	HALI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 16:30	61302	EARL_T1	0	0	0	0	0	0	0.07	-0.06	2	2	0	1800	1800	0
1/30/2025 16:30	53903	HALI_T2	2	2	0	0.95	1	0.05	-0.15	-0.13	0	0	0	0	0	0
1/30/2025 16:36	57205	ROSS_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
1/30/2025 16:45	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/30/2025 16:45	29402	BELT_T1	1	1	0	7.2	6.7	-0.5	0	0	0	0	0	0	0	0
1/30/2025 19:08	22002	BOHE_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
1/30/2025 19:10	66505	SMAN_T2	3	3	0	0.43	0.17	-0.26	-0.48	-0.36	1	1	0	900	900	0
1/30/2025 19:10	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:12	61701	ELIZ_T1	1	1	0	5	4.8	-0.2	-0.01	0.11	0	0	0	0	0	0
1/30/2025 19:12	17805	GILB_T2	1	0	-1	0.6	0	-0.6	0.26	-0.7	0	0	0	0	0	0
1/30/2025 19:13	24202	PROV_T4	0	0	0	0	0	0	-0.7	-0.72	1	1	0	1200	1200	0
1/30/2025 19:13	16901	MECK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/30/2025 19:13	65503	MOJO_T2	0	0	0	0	0	0	-0.06	-0.1	0	0	0	0	0	0
1/30/2025 19:13	16902	MECK_T1	76	64	-12	0.34	0.3	-0.04	0.48	0.48	0	0	0	0	0	0
1/30/2025 19:14	60803	BUCK_T1	2	5	3	0.2	0.22	0.02	0	0	0	0	0	0	0	0
1/30/2025 19:14	24204	PROV_T3	2	2	0	2.9	2.9	0	0	0	0	0	0	0	0	0
1/30/2025 19:14	24201	PROV_T3	3	5	2	6.37	6.4	0.03	-1.31	-1.34	1	1	0	1200	1200	0
1/30/2025 19:14	60801	BUCK_T1	4	12	8	0.1	0.13	0.03	-0.23	-0.23	0	0	0	0	0	0
1/30/2025 19:14	65004	NEFF_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
1/30/2025 19:14	10805	CHHI_T2	6	6	0	1.63	8	6.37	-0.94	-0.89	1	1	0	600	600	0
1/30/2025 19:15	54201	PENN_T1	10	10	0	0.83	1.21	0.38	0.86	0.86	0	0	0	0	0	0
1/30/2025 19:15	61801	EELI_T2	0	0	0	0	0	0	-1	-1.01	1	1	0	600	600	0
1/30/2025 19:15	27901	BCRK_T1	1	1	0	6.5	7	0.5	0	0	0	0	0	0	0	0
1/30/2025 19:15	17805	GILB_T2	0	0	0	0	0	0	0.26	-0.7	0	0	0	0	0	0
1/30/2025 19:15	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:15	54203	PENN_T1	18	18	0	1.36	1.74	0.38	0	0	0	0	0	0	0	0
1/30/2025 19:16	12006	HATF_T1	2	2	0	1.25	1	-0.25	0	0	0	0	0	0	0	0
1/30/2025 19:16	14801	TREI_T2	0	1	1	0	1	1	0.73	0.7	0	0	0	0	0	0
1/30/2025 19:16	46002	BERW_T2	0	0	0	0	0	0	-1.09	-1.06	1	1	0	900	900	0
1/30/2025 19:16	60201	ATGL_T2	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
1/30/2025 19:16	10801	CHHI_T1	0	1	1	0	0	0	-1.43	-1.34	2	2	0	1500	1500	0
1/30/2025 19:16	12002	HATF_T1	0	0	0	0	0	0	-1.02	-1.03	1	1	0	1200	1200	0
1/30/2025 19:16	11301	EMMA_T1	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
1/30/2025 19:16	46004	BERW_T2	3	3	0	0.57	0.33	-0.24	0	0	0	0	0	0	0	0
1/30/2025 19:16	65503	MOJO_T2	0	0	0	0	0	0	-0.06	-0.1	0	0	0	0	0	0
1/30/2025 19:16	12001	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:17	23401	HONE_T2	1	4	3	0.8	0.35	-0.45	-0.15	-0.11	0	0	0	0	0	0
1/30/2025 19:17	60803	BUCK_T1	3	5	2	0.2	0.22	0.02	0	0	0	0	0	0	0	0
1/30/2025 19:17	60801	BUCK_T1	7	11	4	0.1	0.14	0.04	-0.23	-0.23	0	0	0	0	0	0
1/30/2025 19:17	61304	EARL_T1	0	0	0	0	0	0	-0.91	-0.92	1	1	0	600	600	0
1/30/2025 19:17	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
1/30/2025 19:17	61802	EELI_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
1/30/2025 19:17	46004	BERW_T2	3	3	0	0.57	0.33	-0.24	-0.52	-0.53	0	0	0	0	0	0
1/30/2025 19:17	63501	HEID_TBK1-2	26	42	16	0.16	0.23	0.07	-1.68	-1.56	3	3	0	2700	2700	0
1/30/2025 19:17	54506	ENOL_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
1/30/2025 19:17	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.87	1	1	0	900	900	0
1/30/2025 19:17	54501	ENOL_T2	0	0	0	0	0	0	0.19	0.14	0	0	0	0	0	0
1/30/2025 19:17	54203	PENN_T1	18	18	0	1.36	1.74	0.38	0.63	0.64	0	0	0	0	0	0
1/30/2025 19:17	20402	ASHF_T2	5	3	-2	0.14	0.27	0.13	0	0	0	0	0	0	0	0
1/30/2025 19:17	66303	MCGO_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/30/2025 19:17	65001	NEFF_T2	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
1/30/2025 19:17	54201	PENN_T1	10	10	0	0.83	1.21	0.38	0.86	0.86	0	0	0	0	0	0
1/30/2025 19:17	17802	GILB_T1	0	0	0	0	0	0	0.3	0.24	0	0	0	0	0	0
1/30/2025 19:17	20401	ASHF_T2	8	9	1	0.7	0.78	0.08	-0.74	-0.77	1	1	0	600	600	0
1/30/2025 19:17	66302	MCGO_T2	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
1/30/2025 19:17	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
1/30/2025 19:18	63501	HEID_TBK1-2	26	42	16	0.16	0.23	0.07	0	0	0	0	0	0	0	0
1/30/2025 19:18	20402	ASHF_T2	5	3	-2	0.14	0.27	0.13	0	0	0	0	0	0	0	0
1/30/2025 19:18	64802	MONE_T2	4	6	2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
1/30/2025 19:18	20403	ASHF_T2	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
1/30/2025 19:18	61302	EARL_T1	0	0	0	0	0	0	0.14	0.14	1	1	0	1200	1200	0
1/30/2025 19:18	12001	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:18	12006	HATF_T1	2	2	0	1.25	1	-0.25	0.31	0.25	1	1	0	1200	1200	0
1/30/2025 19:18	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
1/30/2025 19:18	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:18	48301	ORWI_T1	2	2	0	5.05	4.95	-0.1	-0.59	-0.5	1	1	0	900	900	0
1/30/2025 19:18	14801	TREI_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
1/30/2025 19:18	29402	BELT_T1	7	5	-2	1.26	6.2	4.94	0	0	0	0	0	0	0	0
1/30/2025 19:18	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:18	12002	HATF_T1	0	0	0	0	0	0	-1.02	-1.03	1	1	0	1200	1200	0
1/30/2025 19:18	10105	ALLE_T3	36	36	0	2.76	2.3	-0.46	0	0	0	0	0	0	0	0
1/30/2025 19:18	13704	SCHN_T2	0	0	0	0	0	0	-0.87	-0.84	0	0	0	0	0	0
1/30/2025 19:18	53501	EVIL_T2	1	1	0	0.2	0.2	0	-2.45	-2.42	2	2	0	1200	1200	0
1/30/2025 19:18	10109	ALLE_T3	7	9	2	1.31	1.6	0.29	0	0	0	0	0	0	0	0
1/30/2025 19:18	10107	ALLE_T3	13	15	2	0.28	0.15	-0.13	0	0	0	0	0	0	0	0
1/30/2025 19:18	12003	HATF_T1	0	0	0	0	0	0	1.33	1.31	0	0	0	0	0	0
1/30/2025 19:18	10205	ALLE_T3	2	3	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
1/30/2025 19:18	10103	ALLE_T3	1	8	7	2.3	1.7	-0.6	0	0	0	0	0	0	0	0
1/30/2025 19:18	20401	ASHF_T2	8	9	1	0.7	0.78	0.08	0	0	0	0	0	0	0	0
1/30/2025 19:18	10101	ALLE_T3	72	97	25	1.62	0.9	-0.72	0	0	0	0	0	0	0	0
1/30/2025 19:18	14802	TREI_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
1/30/2025 19:18	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:18	64801	MONE_T2	0	1	1	0	0.1	0.1	0.05	0.05	0	0	0	0	0	0
1/30/2025 19:18	60502	NMAN_T2	0	0	0	0	0	0	-0.4	-0.43	0	0	0	0	0	0
1/30/2025 19:18	16302	ALPA_T2	0	0	0	0	0	0	-0.67	-0.64	0	0	0	0	0	0
1/30/2025 19:19	60801	BUCK_T1	7	11	4	0.1	0.14	0.04	-0.23	-0.23	0	0	0	0	0	0
1/30/2025 19:19	65702	RVIL_T2	0	0	0	0	0	0	-0.95	-0.91	0	0	0	0	0	0
1/30/2025 19:19	64802	MONE_T2	4	6	2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
1/30/2025 19:19	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:19	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:19	60803	BUCK_T1	3	5	2	0.2	0.22	0.02	0	0	0	0	0	0	0	0
1/30/2025 19:19	59101	WALK_T2	1	1	0	1.1	1.1	0	0.53	0.58	1	1	0	600	600	0
1/30/2025 19:19	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 19:19	40101	HUNT_T2	20	25	5	1.18	0.99	-0.19	-0.73	-0.77	0	0	0	0	0	0
1/30/2025 19:20	60201	ATGL_T2	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
1/30/2025 19:20	62105	ELAN_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
1/30/2025 19:20	45501	DERR_T2	2	0	-2	1.35	0	-1.35	0.18	0.17	2	2	0	1800	1800	0
1/30/2025 19:20	54206	PENN_T2	0	0	0	0	0	0	-0.08	-0.11	0	0	0	0	0	0
1/30/2025 19:20	13701	SCHN_T2	0	0	0	0	0	0	-0.01	-0.02	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/30/2025 19:20	60801	BUCK_T1	7	11	4	0.1	0.14	0.04	0	0	0	0	0	0	0	0
1/30/2025 19:20	60803	BUCK_T1	3	5	2	0.2	0.22	0.02	-0.48	-0.49	1	1	0	600	600	0
1/30/2025 19:20	13102	NHAM_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
1/30/2025 19:20	53903	HALI_T2	2	2	0	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
1/30/2025 19:20	11104	EGYP_T1	10	11	1	0.41	0.2	-0.21	0.41	0.42	0	0	0	0	0	0
1/30/2025 19:20	40201	BEGA_T2	3	5	2	0.17	0.38	0.21	0	0	0	0	0	0	0	0
1/30/2025 19:20	53902	HALI_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
1/30/2025 19:20	61301	EARL_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
1/30/2025 19:20	10801	CHHI_T1	0	1	1	0	0	0	-1.43	-1.34	2	2	0	1500	1500	0
1/30/2025 19:20	53901	HALI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/30/2025 19:20	13105	NHAM_T2	22	24	2	3.01	3.03	0.02	0	0	0	0	0	0	0	0
1/30/2025 19:20	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:20	61303	EARL_T1	0	0	0	0	0	0	0.27	0.13	0	0	0	0	0	0
1/30/2025 19:20	13103	NHAM_T2	0	0	0	0	0	0	-1.62	-1.61	1	1	0	600	600	0
1/30/2025 19:20	61503	EPET_T1	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
1/30/2025 19:21	64204	KINZ_T1	1	5	4	0.4	0.16	-0.24	0	0	0	0	0	0	0	0
1/30/2025 19:21	57201	ROSS_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
1/30/2025 19:21	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:21	24101	EHAZ_T1	30	27	-3	2.22	2.21	-0.01	0	0	0	0	0	0	0	0
1/30/2025 19:21	61502	EPET_T1	0	0	0	0	0	0	-1.03	-1.16	0	0	0	0	0	0
1/30/2025 19:21	65202	PRIN_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
1/30/2025 19:21	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	-1.19	-1.22	1	1	0	600	600	0
1/30/2025 19:21	24104	EHAZ_T1	0	0	0	0	0	0	-1.7	-1.71	2	2	0	2400	2400	0
1/30/2025 19:21	44902	SCOT_T2	12	94	82	0.13	0.13	0	0	0	0	0	0	0	0	0
1/30/2025 19:21	53501	EVIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
1/30/2025 19:21	57203	ROSS_T1	0	0	0	0	0	0	0.43	0.4	0	0	0	0	0	0
1/30/2025 19:21	53902	HALI_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
1/30/2025 19:21	54203	PENN_T1	18	0	0	1.36	1.74	0.38	0	0	0	0	0	0	0	0
1/30/2025 19:21	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 19:21	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/30/2025 19:21	24102	EHAZ_T1	4	7	3	0.6	0.23	-0.37	0	0	0	0	0	0	0	0
1/30/2025 19:21	53901	HALI_T2	1	1	0	0.1	0.3	0.2	-1.36	-1.37	0	0	0	0	0	0
1/30/2025 19:21	57205	ROSS_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
1/30/2025 19:21	60502	NMAN_T2	0	0	0	0	0	0	-0.4	-0.43	0	0	0	0	0	0
1/30/2025 19:21	61304	EARL_T1	0	0	0	0	0	0	-0.91	-0.92	1	1	0	600	600	0
1/30/2025 19:21	54201	PENN_T1	10	10	0	0.83	1.21	0.38	0.86	0.87	0	0	0	0	0	0
1/30/2025 19:21	55002	NEWP_T1	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
1/30/2025 19:21	65205	PRIN_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
1/30/2025 19:21	53903	HALI_T2	2	2	0	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
1/30/2025 19:21	44901	SCOT_T2	0	0	0	0	0	0	0.27	0.45	0	0	0	0	0	0
1/30/2025 19:21	55001	NEWP_T1	0	0	0	0	0	0	-0.23	-0.17	0	0	0	0	0	0
1/30/2025 19:21	60801	BUCK_T1	7	11	4	0.1	0.14	0.04	0	0	0	0	0	0	0	0
1/30/2025 19:21	29402	BELT_T1	7	5	-2	1.26	6.2	4.94	0	0	0	0	0	0	0	0
1/30/2025 19:21	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:21	60803	BUCK_T1	3	5	2	0.2	0.22	0.02	-0.48	-0.49	1	1	0	600	600	0
1/30/2025 19:21	64201	KINZ_T1	3	5	2	0.13	0.32	0.19	0	0	0	0	0	0	0	0
1/30/2025 19:21	24105	EHAZ_T1	11	9	-2	2.54	6.68	4.14	0	0	0	0	0	0	0	0
1/30/2025 19:22	60801	BUCK_T1	7	11	4	0.1	0.14	0.04	-0.23	-0.22	0	0	0	0	0	0
1/30/2025 19:22	54201	PENN_T1	10	10	0	0.83	1.21	0.38	0.86	0.87	0	0	0	0	0	0
1/30/2025 19:22	46004	BERW_T2	3	3	0	0.57	0.33	-0.24	-0.53	-0.52	0	0	0	0	0	0
1/30/2025 19:22	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:22	43202	MVIL_T2	1	1	0	2.1	1.9	-0.2	-0.65	-0.61	0	0	0	0	0	0
1/30/2025 19:22	12602	MACA_T1	0	4	4	0	0.1	0.1	-1.99	-2.02	0	0	0	0	0	0
1/30/2025 19:22	52004	LING_T2	2	2	0	5.35	5.5	0.15	0.25	0.26	0	0	0	0	0	0
1/30/2025 19:22	46802	HEPB_T1	1	1	0	1	1	0	-1.15	-1.14	0	0	0	0	0	0
1/30/2025 19:22	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	-1.19	-1.22	1	1	0	600	600	0
1/30/2025 19:22	20601	GRWO_T2	1	1	0	2	2.2	0.2	0	0	0	0	0	0	0	0
1/30/2025 19:22	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:22	12604	MACA_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
1/30/2025 19:22	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:22	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
1/30/2025 19:22	10805	CHHI_T2	6	0	0	1.57	8	6.43	-0.89	-0.88	1	1	0	600	600	0
1/30/2025 19:22	11104	EGYP_T1	10	11	1	0.41	0.2	-0.21	0.42	0.4	0	0	0	0	0	0
1/30/2025 19:22	12002	HATF_T1	0	0	0	0	0	0	-2.05	-2.04	2	2	0	2400	2400	0
1/30/2025 19:22	40802	EXCH_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
1/30/2025 19:22	63803	HEMP_T1	0	0	0	0	0	0	0.64	0.58	0	0	0	0	0	0
1/30/2025 19:22	60701	BREC_T1	0	0	0	0	0	0	-0.46	-0.4	1	1	0	600	600	0
1/30/2025 19:22	67303	WYOM_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
1/30/2025 19:22	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:22	20603	GRWO_T2	7	7	0	0.3	0.22	-0.08	0.55	0.52	0	0	0	0	0	0
1/30/2025 19:22	63804	HEMP_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 19:22	14204	EALL_T2	0	0	0	0	0	0	-0.45	-0.53	0	0	0	0	0	0
1/30/2025 19:22	54203	PENN_T1	18	18	0	1.36	1.74	0.38	0.64	0.64	0	0	0	0	0	0
1/30/2025 19:22	57002	WHHI_T2	0	0	0	0	0	0	-1.21	-1.22	1	1	0	1200	1200	0
1/30/2025 19:22	12006	HATF_T1	2	2	0	1.25	1	-0.25	0	0	0	0	0	0	0	0
1/30/2025 19:22	29402	BELT_T1	7	5	-2	1.26	6.2	4.94	0	0	0	0	0	0	0	0
1/30/2025 19:22	12606	MACA_T1	1	2	1	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/30/2025 19:22	57205	ROSS_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
1/30/2025 19:22	14801	TREI_T2	0	1	1	0	1	1	0.7	0.71	0	0	0	0	0	0
1/30/2025 19:22	65703	RVIL_T1	0	0	0	0	0	0	-0.26	-0.31	0	0	0	0	0	0
1/30/2025 19:22	65702	RVIL_T2	0	0	0	0	0	0	-1.82	-1.88	0	0	0	0	0	0
1/30/2025 19:22	45501	DERR_T2	2	0	-2	1.35	0	-1.35	0.17	0.17	2	2	0	1800	1800	0
1/30/2025 19:22	60803	BUCK_T1	3	5	2	0.2	0.22	0.02	0	0	0	0	0	0	0	0
1/30/2025 19:22	40101	HUNT_T2	20	25	5	1.18	0.99	-0.19	-0.77	-0.75	0	0	0	0	0	0
1/30/2025 19:22	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/30/2025 19:22	11202	ELHE_T2	0	0	0	0	0	0	0.43	0.42	1	1	0	1200	1200	0
1/30/2025 19:22	52501	PROG_T1	0	0	0	0	0	0	0.43	0.46	1	1	0	300	300	0
1/30/2025 19:22	42701	AUGU_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/30/2025 19:22	12001	HATF_T1	0	1	1	0	0	0	2.08	1.99	1	1	0	600	600	0
1/30/2025 19:23	52403	GRPA_T2	9	6	-3	0.68	0.4	-0.28	0	0	0	0	0	0	0	0
1/30/2025 19:23	65503	MOJO_T2	0	0	0	0	0	0	-0.1	-0.07	0	0	0	0	0	0
1/30/2025 19:23	64802	MONE_T2	4	6	2	0.13	0.1	-0.03	-0.02	-0.02	0	0	0	0	0	0
1/30/2025 19:23	54201	PENN_T1	10	10	0	0.83	1.21	0.38	0	0	0	0	0	0	0	0
1/30/2025 19:23	54501	ENOL_T2	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
1/30/2025 19:23	20401	ASHF_T2	8	9	1	0.7	0.78	0.08	-0.77	-0.75	1	1	0	600	600	0
1/30/2025 19:23	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
1/30/2025 19:23	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
1/30/2025 19:23	43402	BENT_T1	0	0	0	0	0	0	-0.87	-0.91	1	1	0	900	900	0
1/30/2025 19:23	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 19:23	42701	AUGU_T1	1	1	0	0.1	0.3	0.2	0	0	4	4	0	3600	3600	0
1/30/2025 19:23	59101	WALK_T2	1	1	0	1.1	1.1	0	0.58	0.47	1	1	0	600	600	0
1/30/2025 19:23	52001	LING_T1	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
1/30/2025 19:23	60502	NMAN_T2	0	0	0	0	0	0	-0.43	-0.4	0	0	0	0	0	0
1/30/2025 19:23	60801	BUCK_T1	7	11	4	0.1	0.14	0.04	0	0	0	0	0	0	0	0
1/30/2025 19:23	54203	PENN_T1	18	18	0	1.36	1.74	0.38	1.27	1.27	0	0	0	0	0	0
1/30/2025 19:23	60803	BUCK_T1	3	5	2	0.2	0.22	0.02	-0.98	-0.98	2	2	0	1200	1200	0
1/30/2025 19:23	42903	MIDD_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/30/2025 19:23	53501	EVIL_T2	1	1	0	0.2	0.2	0	-1.21	-1.21	1	1	0	600	600	0
1/30/2025 19:23	55002	NEWP_T1	2	2	0	0.7	0.8	0.1	-0.25	-0.23	0	0	0	0	0	0
1/30/2025 19:23	42902	MIDD_T2	1	1	0	0.4	0.9	0.5	-1.2	-1.22	0	0	0	0	0	0
1/30/2025 19:23	20402	ASHF_T2	5	3	-2	0.14	0.27	0.13	0	0	0	0	0	0	0	0
1/30/2025 19:23	52402	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/30/2025 19:24	63501	HEID_TBK1-2	26	42	16	0.16	0.23	0.07	-1.04	-1.12	2	2	0	1800	1800	0
1/30/2025 19:24	45802	HEGI_T2	45	16	-29	0.52	0.41	-0.11	1.3	1.24	0	0	0	0	0	0
1/30/2025 19:24	57002	WHHI_T2	0	0	0	0	0	0	-1.21	-1.22	1	1	0	1200	1200	0
1/30/2025 19:24	53101	WTWN_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/30/2025 19:24	11104	EGYP_T1	10	11	1	0.41	0.2	-0.21	0	0	0	0	0	0	0	0
1/30/2025 19:24	63804	HEMP_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 19:24	42504	ALTA_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
1/30/2025 19:24	42501	ALTA_T2	2	2	0	0.1	0.1	0	0.05	0.05	1	1	0	600	600	0
1/30/2025 19:24	63803	HEMP_T1	0	0	0	0	0	0	0.64	0.58	0	0	0	0	0	0
1/30/2025 19:24	11302	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:24	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:24	12001	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:24	18001	ZION_T1	2	2	0	8.5	8.7	0.2	0	0	0	0	0	0	0	0
1/30/2025 19:24	58102	NEKI_T1	1	1	0	0.3	0.6	0.3	0.31	0.32	0	0	0	0	0	0
1/30/2025 19:24	55002	NEWP_T1	2	2	0	0.7	0.8	0.1	-0.5	-0.46	0	0	0	0	0	0
1/30/2025 19:24	59202	THOM_T1	20	32	12	0.23	0.29	0.06	0	0	0	0	0	0	0	0
1/30/2025 19:24	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:24	42503	ALTA_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/30/2025 19:24	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
1/30/2025 19:24	40201	BEGA_T2	3	5	2	0.17	0.38	0.21	0	0	0	0	0	0	0	0
1/30/2025 19:24	17001	RIRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:24	54506	ENOL_T2	0	0	0	0	0	0	0.34	0.31	0	1	1	0	600	600
1/30/2025 19:24	28102	TWLA_T2	0	1	1	0	0	0	0.24	0.24	0	0	0	0	0	0
1/30/2025 19:24	54503	ENOL_T2	0	0	0	0	0	0	-0.35	-0.4	1	1	0	600	600	0
1/30/2025 19:24	12006	HATF_T1	2	2	0	1.25	1	-0.25	0	0	0	0	0	0	0	0
1/30/2025 19:24	52004	LING_T2	2	2	0	5.35	5.5	0.15	0	0	0	0	0	0	0	0
1/30/2025 19:24	64101	REFR_T1	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
1/30/2025 19:24	59201	THOM_T1	10	18	8	0.23	0.35	0.12	0	0	0	0	0	0	0	0
1/30/2025 19:25	42503	ALTA_T2	2	2	0	0.1	0.1	0	-0.55	-0.54	0	0	0	0	0	0
1/30/2025 19:25	65702	RVIL_T2	0	0	0	0	0	0	-0.91	-0.94	0	0	0	0	0	0
1/30/2025 19:25	66303	MCGO_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/30/2025 19:25	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 19:25	53501	EVIL_T2	1	1	0	0.2	0.2	0	-1.21	-1.21	1	1	0	600	600	0
1/30/2025 19:25	63501	HEID_TBK1-2	26	42	16	0.16	0.23	0.07	-0.52	-0.56	1	1	0	900	900	0
1/30/2025 19:25	61803	EELI_T2	0	0	0	0	0	0	0.77	0.8	0	0	0	0	0	0
1/30/2025 19:25	45501	DERR_T2	2	0	-2	1.35	0	-1.35	0.17	0.17	2	2	0	1800	1800	0
1/30/2025 19:25	42504	ALTA_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
1/30/2025 19:25	66302	MCGO_T2	0	0	0	0	0	0	-0.86	-0.92	0	0	0	0	0	0
1/30/2025 19:25	54206	PENN_T2	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
1/30/2025 19:25	60801	BUCK_T1	7	11	4	0.1	0.14	0.04	0	0	0	0	0	0	0	0
1/30/2025 19:25	42501	ALTA_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/30/2025 19:25	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.11	0	0	0	0	0	0
1/30/2025 19:25	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:25	64802	MONE_T2	4	6	2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
1/30/2025 19:25	54601	SUMM_T2	0	1	1	0	0.3	0.3	-1.78	-1.74	2	2	0	2100	2100	0
1/30/2025 19:25	61801	EELI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:25	60803	BUCK_T1	3	5	2	0.2	0.22	0.02	0	0	0	0	0	0	0	0
1/30/2025 19:25	45802	HEGI_T2	45	16	-29	0.52	0.41	-0.11	1.3	1.24	0	0	0	0	0	0
1/30/2025 19:25	63804	HEMP_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 19:25	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:25	40201	BEGA_T2	3	5	2	0.17	0.38	0.21	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/30/2025 19:25	57201	ROSS_T1	0	0	0	0	0	0	-1.28	-1.33	0	0	0	0	0	0
1/30/2025 19:25	54603	SUMM_T2	0	0	0	0	0	0	-0.43	-0.41	1	1	0	900	900	0
1/30/2025 19:26	52401	GRPA_T2	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
1/30/2025 19:26	67401	WAKE_T2	0	0	0	0	0	0	-1.16	-1.16	0	0	0	0	0	0
1/30/2025 19:26	10801	CHHI_T1	0	1	1	0	0	0	-1.34	-1.39	2	2	0	1500	1500	0
1/30/2025 19:26	11104	EGYP_T1	10	11	1	0.41	0.2	-0.21	0.42	0.4	0	0	0	0	0	0
1/30/2025 19:26	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:26	60803	BUCK_T1	3	5	2	0.2	0.22	0.02	0	0	0	0	0	0	0	0
1/30/2025 19:26	60701	BREC_T1	0	0	0	0	0	0	-0.46	-0.4	1	1	0	600	600	0
1/30/2025 19:26	52402	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/30/2025 19:26	17804	GILB_T2	0	0	0	0	0	0	-0.48	-0.45	0	0	0	0	0	0
1/30/2025 19:26	46004	BERW_T2	3	3	0	0.57	0.33	-0.24	-1.06	-1.04	0	0	0	0	0	0
1/30/2025 19:26	20401	ASHF_T2	8	9	1	0.7	0.78	0.08	0	0	0	0	0	0	0	0
1/30/2025 19:26	52403	GRPA_T2	9	6	-3	0.68	0.4	-0.28	0	0	0	0	0	0	0	0
1/30/2025 19:26	20403	ASHF_T2	0	0	0	0	0	0	0.59	0.52	0	0	0	0	0	0
1/30/2025 19:26	61801	EELI_T2	0	0	0	0	0	0	-1.01	-1.03	1	1	0	600	600	0
1/30/2025 19:26	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:26	20603	GRWO_T2	7	7	0	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
1/30/2025 19:26	54601	SUMM_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
1/30/2025 19:26	20402	ASHF_T2	5	3	-2	0.14	0.27	0.13	0	0	0	0	0	0	0	0
1/30/2025 19:26	54603	SUMM_T2	0	0	0	0	0	0	-0.43	-0.41	1	1	0	900	900	0
1/30/2025 19:26	40101	HUNT_T2	20	25	5	1.18	0.99	-0.19	-0.77	-0.75	0	0	0	0	0	0
1/30/2025 19:26	20601	GRWO_T2	1	1	0	2	2.2	0.2	-0.02	-0.01	0	0	0	0	0	0
1/30/2025 19:26	58402	MORO_T1	0	0	0	0	0	0	-0.29	-0.29	3	3	0	1950	1950	0
1/30/2025 19:26	57201	ROSS_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
1/30/2025 19:26	60801	BUCK_T1	7	11	4	0.1	0.14	0.04	-0.23	-0.22	0	0	0	0	0	0
1/30/2025 19:26	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:26	40802	EXCH_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
1/30/2025 19:27	60803	BUCK_T1	3	5	2	0.2	0.22	0.02	-0.49	-0.49	1	1	0	600	600	0
1/30/2025 19:27	40101	HUNT_T2	20	25	5	1.18	0.99	-0.19	-0.77	-0.75	0	0	0	0	0	0
1/30/2025 19:27	44902	SCOT_T2	12	94	82	0.13	0.13	0	-0.93	-0.91	0	0	0	0	0	0
1/30/2025 19:27	54504	ENOL_T2	0	0	0	0	0	0	-0.33	-0.37	0	0	0	0	0	0
1/30/2025 19:27	64801	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 19:27	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:27	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
1/30/2025 19:27	60701	BREC_T1	0	0	0	0	0	0	-0.46	-0.4	1	1	0	600	600	0
1/30/2025 19:27	54502	ENOL_T2	0	0	0	0	0	0	-1.97	-1.97	1	1	0	600	600	0
1/30/2025 19:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:27	52403	GRPA_T2	9	6	-3	0.68	0.4	-0.28	0	0	0	0	0	0	0	0
1/30/2025 19:27	65502	MOJO_T2	0	0	0	0	0	0	-1.03	-1	0	0	0	0	0	0
1/30/2025 19:27	20603	GRWO_T2	7	7	0	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
1/30/2025 19:27	53902	HALI_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
1/30/2025 19:27	52402	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/30/2025 19:27	46102	MACI_T1	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
1/30/2025 19:27	40201	BEGA_T2	3	5	2	0.17	0.38	0.21	0	0	0	0	0	0	0	0
1/30/2025 19:27	61802	EELI_T2	0	0	0	0	0	0	-0.31	-0.28	0	0	0	0	0	0
1/30/2025 19:27	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
1/30/2025 19:27	20601	GRWO_T2	1	1	0	2	2.2	0.2	-0.02	-0.01	0	0	0	0	0	0
1/30/2025 19:27	64802	MONE_T2	4	6	2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
1/30/2025 19:27	55002	NEWP_T1	2	2	0	0.7	0.8	0.1	-0.25	-0.23	0	0	0	0	0	0
1/30/2025 19:27	60801	BUCK_T1	7	11	4	0.1	0.14	0.04	0	0	0	0	0	0	0	0
1/30/2025 19:27	66203	SISP_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
1/30/2025 19:27	53903	HALI_T2	2	2	0	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
1/30/2025 19:27	53901	HALI_T2	1	1	0	0.1	0.3	0.2	-2.72	-2.74	0	0	0	0	0	0
1/30/2025 19:27	42701	AUGU_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/30/2025 19:28	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:28	58302	NOTT_T1	0	0	0	0	0	0	0	-0.05	1	1	0	900	900	0
1/30/2025 19:28	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:28	44902	SCOT_T2	12	94	82	0.13	0.13	0	-0.93	-0.91	0	0	0	0	0	0
1/30/2025 19:28	20402	ASHF_T2	5	3	-2	0.14	0.27	0.13	0	0	0	0	0	0	0	0
1/30/2025 19:28	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
1/30/2025 19:28	59101	WALK_T2	1	1	0	1.1	1.1	0	0.58	0.47	1	1	0	600	600	0
1/30/2025 19:28	20401	ASHF_T2	8	9	1	0.7	0.78	0.08	0	0	0	0	0	0	0	0
1/30/2025 19:28	13501	MCMI_T1	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
1/30/2025 19:28	12602	MACA_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
1/30/2025 19:28	12606	MACA_T1	1	2	1	0.7	0	-0.7	0	0	0	0	0	0	0	0
1/30/2025 19:28	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:28	60902	DONG_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
1/30/2025 19:28	60701	BREC_T1	0	0	0	0	0	0	-0.46	-0.4	1	1	0	600	600	0
1/30/2025 19:28	60801	BUCK_T1	7	11	4	0.1	0.14	0.04	-0.23	-0.22	0	0	0	0	0	0
1/30/2025 19:28	53501	EVIL_T2	1	1	0	0.2	0.2	0	-1.21	-1.21	1	1	0	600	600	0
1/30/2025 19:28	60803	BUCK_T1	3	5	2	0.2	0.22	0.02	0	0	0	0	0	0	0	0
1/30/2025 19:28	13704	SOHN_T2	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
1/30/2025 19:28	20403	ASHF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:28	44301	BEAV_T2	0	0	0	0	0	0	-0.21	-0.41	1	1	0	600	600	0
1/30/2025 19:29	41301	FISH_T1	3	3	0	1.27	1.5	0.23	-0.27	-0.26	0	0	0	0	0	0
1/30/2025 19:29	52403	GRPA_T2	9	6	-3	0.68	0.4	-0.28	-0.53	-0.54	0	0	0	0	0	0
1/30/2025 19:29	40201	BEGA_T2	3	5	2	0.17	0.38	0.21	0	0	0	0	0	0	0	0
1/30/2025 19:29	42504	ALTA_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
1/30/2025 19:29	53902	HALI_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
1/30/2025 19:29	44901	SCOT_T2	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
1/30/2025 19:29	64101	REFR_T1	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
1/30/2025 19:29	67502	WEWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:29	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:29	42501	ALTA_T2	2	2	0	0.1	0.1	0	0.05	0.05	1	1	0	600	600	0
1/30/2025 19:29	42503	ALTA_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
1/30/2025 19:29	65502	MOJO_T2	0	0	0	0	0	0	-1.03	-1	0	0	0	0	0	0
1/30/2025 19:29	58401	MORO_T1	0	0	0	0	0	0	-2.16	-2.2	2	2	0	1200	1200	0
1/30/2025 19:29	53903	HALI_T2	2	2	0	0.95	0.9	-0.05	-0.11	-0.12	0	0	0	0	0	0
1/30/2025 19:29	66303	MCGO_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
1/30/2025 19:29	44301	BEAV_T2	0	0	0	0	0	0	-0.21	-0.41	1	1	0	600	600	0
1/30/2025 19:29	66302	MCGO_T2	0	0	0	0	0	0	-2.58	-2.77	0	0	0	0	0	0
1/30/2025 19:29	52402	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/30/2025 19:29	47203	FAXO_T2	1	1	0	3	3	0	-0.39	-0.38	0	0	0	0	0	0
1/30/2025 19:29	53901	HALI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
1/30/2025 19:29	58202	NEWV_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
1/30/2025 19:29	44902	SCOT_T2	12	94	82	0.13	0.13	0	-0.93	-0.91	0	0	0	0	0	0
1/30/2025 19:30	64101	REFR_T1	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
1/30/2025 19:30	61304	EARL_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	600	600	0
1/30/2025 19:30	52402	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/30/2025 19:30	52403	GRPA_T2	6	2	-4	0.53	0.4	-0.13	-0.53	-0.54	0	0	0	0	0	0
1/30/2025 19:30	51303	WIND_T1	9	5	-4	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
1/30/2025 19:30	63501	HEID_T8K1-2	35	44	9	0.21	0.32	0.11	-0.52	-0.56	1	1	0	900	900	0
1/30/2025 19:30	67402	WAKE_T2	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
1/30/2025 19:30	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:30	58401	MORO_T1	0	0	0	0	0	0	-1.08	-1.1	1	1	0	600	600	0
1/30/2025 19:30	59101	WALK_T2	1	1	0	1.6	0.8	-0.8	0.58	0.47	1	1	0	600	600	0
1/30/2025 19:30	57205	ROSS_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
1/30/2025 19:31	64201	KINZ_T1	4	6	2	0.33	0.35	0.02	0	0	0	0	0	0	0	0
1/30/2025 19:31	63804	HEMP_T1	1	1	0	6.1	5.9	-0.2	0.63	0.51	0	0	0	0	0	0
1/30/2025 19:31	52403	GRPA_T2	6	2	-4	0.53	0.4	-0.13	-0.53	-0.54	0	0	0	0	0	0
1/30/2025 19:31	64204	KINZ_T1	5	6	1	0.16	0.22	0.06	0	0	0	0	0	0	0	0
1/30/2025 19:31	64203	KINZ_T1	0	0	0	0	0	0	0.41	0.29	0	0	0	0	0	0
1/30/2025 19:31	52402	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/30/2025 19:31	61304	EARL_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	600	600	0
1/30/2025 19:31	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:31	64202	KINZ_T1	2	5	3	0.1	0.14	0.04	0	0	0	0	0	0	0	0
1/30/2025 19:32	44905	SCOT_T1	6	6	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
1/30/2025 19:32	55002	NEWP_T1	2	4	2	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
1/30/2025 19:32	53501	EVIL_T2	1	2	1	0.1	0.3	0.2	-1.21	-1.21	1	1	0	600	600	0
1/30/2025 19:32	55001	NEWP_T1	0	0	0	0	0	0	-0.23	-0.17	0	0	0	0	0	0
1/30/2025 19:32	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:33	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:33	53903	HALI_T2	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
1/30/2025 19:33	53901	HALI_T2	0	1	1	0	0.3	0.3	-1.36	-1.37	0	0	0	0	0	0
1/30/2025 19:33	52402	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/30/2025 19:33	55105	WERT_T1	0	0	0	0	0	0	-0.54	-0.54	1	1	0	900	900	0
1/30/2025 19:33	53902	HALI_T2	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
1/30/2025 19:33	52403	GRPA_T2	6	2	-4	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
1/30/2025 19:33	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:34	58202	NEWV_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
1/30/2025 19:34	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:35	29402	BELT_T1	5	1	-4	1.56	6.2	4.64	0	0	0	0	0	0	0	0
1/30/2025 19:35	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 19:37	54203	PENN_T1	18	18	0	1.68	1.79	0.11	0	0	0	0	0	0	0	0
1/30/2025 19:37	54204	PENN_T2	10	10	0	1.14	1.3	0.16	0.87	0.86	0	0	0	0	0	0
1/30/2025 19:39	63802	HEMP_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
1/30/2025 19:39	63804	HEMP_T1	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
1/30/2025 19:40	65702	RVIL_T2	0	0	0	0	0	0	-0.94	-0.93	0	0	0	0	0	0
1/30/2025 19:44	64904	MILL_T1	0	0	0	0	0	0	-0.36	-0.33	0	0	0	0	0	0
1/30/2025 19:59	65502	MOJO_T2	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
1/30/2025 20:16	13904	SEID_T1	40	43	3	2.05	1.54	-0.51	0	0	0	0	0	0	0	0
1/30/2025 20:16	13903	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/30/2025 20:16	13905	SEID_T1	0	0	0	0	0	0	-0.92	-0.94	1	1	0	1200	1200	0
1/30/2025 20:27	61801	EELI_T2	1	1	0	0.1	0.2	0.1	-1.03	-1.06	1	1	0	600	600	0
1/30/2025 20:34	58202	NEWV_T1	0	0	0	0	0	0	-0.22	-0.39	0	0	0	0	0	0
1/30/2025 22:26	63803	HEMP_T1	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
1/30/2025 22:26	63804	HEMP_T1	1	1	0	5.9	6.2	0.3	0	0	0	0	0	0	0	0
1/30/2025 22:31	60701	BREC_T1	0	0	0	0	0	0	-0.54	-0.56	1	1	0	600	600	0
1/31/2025 9:00	46004	BERW_T2	1	3	2	0.3	0.6	0.3	0	0	0	0	0	0	0	0
1/31/2025 9:00	66203	SISP_T2	0	0	0	0	0	0	-1.11	-1.04	2	2	0	1800	1800	0
1/31/2025 9:00	66201	SISP_T2	1	1	0	2.3	0.1	-2.2	0	0	0	0	0	0	0	0
1/31/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
1/31/2025 9:00	46002	BERW_T2	0	0	0	0	0	0	-0.78	-0.76	1	1	0	900	900	0
1/31/2025 9:00	40101	HUNT_T2	3	13	10	0.93	0.58	-0.35	-0.8	-0.57	0	0	0	0	0	0
1/31/2025 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
1/31/2025 9:00	40504	CRES_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
1/31/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.42	0.32	0	0	0	0	0	0
1/31/2025 9:34	58402	MORO_T1	0	0	0	0	0	0	-0.79	-0.77	3	3	0	2400	2400	0
1/31/2025 9:37	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/31/2025 9:38	14603	SWHI_T1	0	0	0	0	0	0	-1.59	-1.59	2	2	0	1200	1200	0
1/31/2025 9:40	14603	SWHI_T1	0	0	0	0	0	0	-1.59	-1.59	2	2	0	1200	1200	0
1/31/2025 9:52	44903	SCOT_T1	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/31/2025 9:54	14601	SWHI_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
1/31/2025 9:55	61503	EPET_T1	0	0	0	0	0	0	-1.12	-1.12	0	0	0	0	0	0
1/31/2025 9:56	61503	EPET_T1	0	0	0	0	0	0	-1.12	-1.12	0	0	0	0	0	0
1/31/2025 9:58	46005	BERW_T1	9	0	-9	0.27	0	-0.27	0	0	0	0	0	0	0	0
1/31/2025 9:58	46001	BERW_T1	0	0	0	0	0	0	0.8	0.83	0	0	0	0	0	0
1/31/2025 10:04	66303	MCGO_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/31/2025 10:04	66301	MCGO_T2	0	0	0	0	0	0	-1.19	-1.19	0	0	0	0	0	0
1/31/2025 10:04	58201	NEWV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/31/2025 10:06	58202	NEWV_T1	0	0	0	0	0	0	-0.16	-0.12	0	0	0	0	0	0
1/31/2025 10:06	66302	MCGO_T2	0	0	0	0	0	0	-1.39	-0.69	1	0	-1	600	0	-600
1/31/2025 10:06	66303	MCGO_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/31/2025 10:07	66303	MCGO_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
1/31/2025 10:07	66302	MCGO_T2	0	0	0	0	0	0	-0.69	-0.62	0	0	0	0	0	0
1/31/2025 10:08	63501	HEID_TBK1-2	4	39	35	0.18	0.24	0.06	0	0	0	0	0	0	0	0
1/31/2025 10:12	61304	EARL_T1	0	0	0	0	0	0	-0.64	-0.65	1	1	0	600	600	0
1/31/2025 10:15	63803	HEMP_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
1/31/2025 10:15	63804	HEMP_T1	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
1/31/2025 10:16	61305	EARL_T1	0	0	0	0	0	0	0.51	0.54	1	1	0	900	900	0
1/31/2025 10:16	63801	HEMP_T1	0	0	0	0	0	0	-0.69	-0.66	1	1	0	900	900	0
1/31/2025 10:16	63804	HEMP_T1	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
1/31/2025 10:21	65502	MOJO_T2	0	0	0	0	0	0	0	-0.14	0	0	0	0	0	0
1/31/2025 10:30	29402	BELT_T1	1	1	0	7.1	7.1	0	0	0	0	0	0	0	0	0
1/31/2025 10:30	60903	DONG_T2	0	0	0	0	0	0	0.05	0.04	1	1	0	600	600	0
1/31/2025 10:30	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
1/31/2025 10:31	60903	DONG_T2	0	0	0	0	0	0	0.05	0.04	1	1	0	600	600	0
1/31/2025 10:38	67402	WAKE_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
1/31/2025 10:39	15603	NSTR_T2	0	0	0	0	0	0	-1.08	-1.1	0	0	0	0	0	0
1/31/2025 10:44	67402	WAKE_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
1/31/2025 10:52	57201	ROSS_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
1/31/2025 10:54	57201	ROSS_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
1/31/2025 10:54	66202	SISP_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
1/31/2025 11:00	10805	CHHI_T2	1	1	0	8.2	7.6	-0.6	-1.16	-1.15	1	1	0	600	600	0
1/31/2025 11:05	57201	ROSS_T1	0	0	0	0	0	0	-1.27	-1.3	0	0	0	0	0	0
1/31/2025 11:08	60301	TWVA_T2	0	0	0	0	0	0	-3.15	-3.18	2	2	0	1800	1800	0
1/31/2025 11:13	61502	EPET_T1	0	0	0	0	0	0	-1.12	-1.08	0	0	0	0	0	0
1/31/2025 11:18	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/31/2025 11:18	63802	HEMP_T1	0	0	0	0	0	0	0.19	0.15	0	0	0	0	0	0
1/31/2025 11:18	63804	HEMP_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
1/31/2025 11:19	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/31/2025 11:19	63802	HEMP_T1	0	0	0	0	0	0	0.19	0.15	0	0	0	0	0	0
1/31/2025 11:19	63804	HEMP_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
1/31/2025 11:22	63501	HEID_TBK1-2	33	6	-27	0.18	0.18	0	-0.2	-0.24	1	1	0	900	900	0
1/31/2025 11:24	13704	SCHN_T2	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
1/31/2025 11:26	16102	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/31/2025 11:30	45501	DERR_T2	0	0	0	0	0	0	0.49	0.36	2	2	0	1800	1800	0
1/31/2025 11:31	44502	HAMI_T2	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
1/31/2025 11:31	60902	DONG_T2	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
1/31/2025 11:31	45501	DERR_T2	0	0	0	0	0	0	0.49	0.36	2	2	0	1800	1800	0
1/31/2025 11:31	44505	HAMI_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
1/31/2025 11:32	45501	DERR_T2	0	0	0	0	0	0	0.49	0.36	2	2	0	1800	1800	0
1/31/2025 11:33	47901	HRDG_T1	0	0	0	0	0	0	0.66	0.41	1	1	0	1200	1200	0
1/31/2025 11:36	13904	SEID_T1	1	13	12	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/31/2025 11:36	13901	SEID_T1	0	0	0	0	0	0	-0.87	-0.88	1	1	0	1200	1200	0
1/31/2025 11:38	13901	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/31/2025 11:38	13904	SEID_T1	1	13	12	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
1/31/2025 11:40	14603	SWHI_T1	0	0	0	0	0	0	-1.61	-1.62	2	2	0	1200	1200	0
1/31/2025 11:40	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/31/2025 11:42	10801	CHHI_T1	0	0	0	0	0	0	-1.15	-1.19	2	2	0	1500	1500	0
1/31/2025 11:45	44301	BEAV_T2	0	0	0	0	0	0	0.02	-0.04	2	2	0	1500	1500	0
1/31/2025 11:48	63602	LETO_T1	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
1/31/2025 11:51	63602	LETO_T1	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
1/31/2025 11:55	61506	EPET_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	900	900	0
1/31/2025 12:01	63803	HEMP_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/31/2025 12:01	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
1/31/2025 12:01	20601	GRWO_T2	3	2	-1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
1/31/2025 12:01	63804	HEMP_T1	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
1/31/2025 12:01	20603	GRWO_T2	0	0	0	0	0	0	-0.58	-0.57	1	1	0	900	900	0
1/31/2025 12:02	63804	HEMP_T1	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
1/31/2025 12:02	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
1/31/2025 12:02	63803	HEMP_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
1/31/2025 12:08	59402	RFLD_T2	0	0	0	0	0	0	-0.63	-0.65	1	1	0	450	450	0
1/31/2025 12:15	44503	HAMI_T2	0	0	0	0	0	0	-2.01	-2.03	1	1	0	1200	1200	0
1/31/2025 12:15	44502	HAMI_T2	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
1/31/2025 12:25	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/31/2025 12:25	42501	ALTA_T2	0	0	0	0	0	0	0	0.02	1	1	0	600	600	0
1/31/2025 12:30	10801	CHHI_T1	0	0	0	0	0	0	-1.28	-1.23	2	2	0	1500	1500	0
1/31/2025 12:30	44502	HAMI_T2	1	1	0	2.1	2.6	0.5	0	0	0	0	0	0	0	0
1/31/2025 12:30	44505	HAMI_T2	0	0	0	0	0	0	0.29	0.23	0	0	0	0	0	0
1/31/2025 12:32	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/31/2025 12:32	44502	HAMI_T2	1	1	0	2.1	2.6	0.5	0	0	0	0	0	0	0	0
1/31/2025 12:34	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/31/2025 12:34	44502	HAMI_T2	1	1	0	2.1	2.6	0.5	0	0	0	0	0	0	0	0
1/31/2025 12:36	57205	ROSS_T1	0	0	0	0	0	0	-0.82	-0.86	1	1	0	900	900	0
1/31/2025 12:39	57201	ROSS_T1	0	0	0	0	0	0	-0.46	-0.5	0	0	0	0	0	0
1/31/2025 12:40	14801	TREI_T2	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
1/31/2025 12:41	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
1/31/2025 12:41	54502	ENOL_T2	1	1	0	0.3	0.7	0.4	-2.04	-2.04	1	1	0	600	600	0
1/31/2025 12:44	12202	FOGE_T2	0	0	0	0	0	0	-0.36	-0.43	1	1	0	600	600	0
1/31/2025 12:48	58102	NEKI_T1	1	1	0	2.1	2.1	0	-0.68	-0.84	1	1	0	1200	1200	0
1/31/2025 12:48	58402	MORO_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
1/31/2025 12:48	58401	MORO_T1	0	0	0	0	0	0	-1.01	-1	1	1	0	600	600	0
1/31/2025 12:49	58401	MORO_T1	0	0	0	0	0	0	-2.02	-2	2	2	0	1200	1200	0
1/31/2025 12:49	66202	SISP_T2	0	0	0	0	0	0	-0.42	-0.28	0	0	0	0	0	0
1/31/2025 12:49	58402	MORO_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
1/31/2025 12:50	58401	MORO_T1	0	0	0	0	0	0	-1.01	-1	1	1	0	600	600	0
1/31/2025 12:50	58402	MORO_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
1/31/2025 13:04	64904	MILL_T1	0	0	0	0	0	0	0.58	0.51	0	0	0	0	0	0
1/31/2025 13:23	25801	SUTR_T2	2	2	0	8.05	8.4	0.35	0	-0.01	0	0	0	0	0	0
1/31/2025 13:26	13702	SCHN_T1	0	0	0	0	0	0	0.8	0.78	0	0	0	0	0	0
1/31/2025 13:45	61304	EARL_T1	0	0	0	0	0	0	-0.92	-0.89	1	1	0	600	600	0
1/31/2025 13:45	61301	EARL_T1	0	0	0	0	0	0	0.26	0.19	0	0	0	0	0	0
1/31/2025 13:48	61304	EARL_T1	0	0	0	0	0	0	-0.92	-0.89	1	1	0	600	600	0
1/31/2025 18:18	44905	SCOT_T1	1	2	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
1/31/2025 18:18	44903	SCOT_T1	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
1/31/2025 18:20	59402	RFLD_T2	0	0	0	0	0	0	-0.91	-0.91	1	1	0	450	450	0
1/31/2025 18:20	10805	CHHI_T2	1	1	0	8.1	8.1	0	-0.77	-0.77	1	1	0	600	600	0
1/31/2025 18:28	14801	TREI_T2	1	0	-1	0.7	0	-0.7	0.64	0.66	0	0	0	0	0	0
1/31/2025 18:31	15603	NSTR_T2	0	0	0	0	0	0	-1.15	-1.17	0	0	0	0	0	0
1/31/2025 18:34	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/31/2025 18:34	44502	HAMI_T2	1	1	0	2.8	2.9	0.1	0	0	0	0	0	0	0	0
1/31/2025 18:35	29401	BELT_T1	39	28	-11	0.22	0.19	-0.03	0	0	1	1	0	900	900	0
1/31/2025 18:35	29402	BELT_T1	1	1	0	7.1	7.3	0.2	0	0	0	0	0	0	0	0
1/31/2025 18:36	44505	HAMI_T2	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
1/31/2025 18:36	44502	HAMI_T2	1	1	0	2.8	2.9	0.1	0	0	0	0	0	0	0	0
1/31/2025 18:38	25801	SUTR_T2	2	2	0	9.4	9.4	0	-0.65	-0.64	0	0	0	0	0	0
1/31/2025 18:40	13702	SCHN_T1	0	0	0	0	0	0	0.74	0.73	0	0	0	0	0	0
1/31/2025 18:42	10801	CHHI_T1	0	0	0	0	0	0	-1.49	-1.48	2	2	0	1500	1500	0
1/31/2025 18:46	12202	FOGE_T2	0	0	0	0	0	0	-0.42	-0.44	1	1	0	600	600	0
1/31/2025 18:48	42504	ALTA_T2	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0	0
1/31/2025 18:48	42503	ALTA_T2	54	51	-3	0.23	0.24	0.01	0	0	0	0	0	0	0	0
1/31/2025 18:48	42502	ALTA_T2	2	5	3	0.1	0.12	0.02	0	0	0	0	0	0	0	0
1/31/2025 18:48	10801	CHHI_T1	0	0	0	0	0	0	-1.49	-1.48	2	2	0	1500	1500	0
1/31/2025 18:48	42501	ALTA_T2	47	56	9	0.29	0.28	-0.01	0.03	0.01	1	1	0	600	600	0
1/31/2025 18:49	46001	BERW_T1	0	0	0	0	0	0	0.7	0.65	0	0	0	0	0	0
1/31/2025 18:50	63501	HEID_TBK1-2	1	11	10	0.9	0.25	-0.65	0	0	0	0	0	0	0	0
1/31/2025 18:50	65502	MOJO_T2	0	0	0	0	0	0	-1.03	-1	0	0	0	0	0	0
1/31/2025 18:50	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/31/2025 18:50	40101	HUNT_T2	5	12	7	0.8	0.59	-0.21	-0.78	-0.81	0	0	0	0	0	0
1/31/2025 18:50	14603	SWHI_T1	0	0	0	0	0	0	-1.61	-1.63	2	2	0	1200	1200	0
1/31/2025 18:52	14603	SWHI_T1	0	0	0	0	0	0	-1.63	-1.62	2	2	0	1200	1200	0
1/31/2025 18:54	14601	SWHI_T1	0	0	0	0	0	0	-0.79	-0.77	0	0	0	0	0	0
1/31/2025 18:55	44502	HAMI_T2	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
1/31/2025 18:55	44503	HAMI_T2	0	0	0	0	0	0	-2.14	-2.13	1	1	0	1200	1200	0
1/31/2025 18:55	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/31/2025 18:55	61506	EPET_T2	0	0	0	0	0	0	0.02	-0.09	0	0	0	0	0	0
1/31/2025 18:55	60901	DONG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/31/2025 18:55	60301	TWVA_T2	0	0	0	0	0	0	-1.15	-1.17	1	1	0	600	600	0
1/31/2025 18:56	45501	DERR_T2	0	0	0	0	0	0	0.2	0.06	1	1	0	600	600	0
1/31/2025 18:56	58102	NEKI_T1	1	1	0	1.1	1.4	0.3	0.27	0.16	0	0	0	0	0	0
1/31/2025 18:56	58402	MORO_T1	0	0	0	0	0	0	-0.21	0.36	3	2	-1	1950	1350	-600
1/31/2025 18:57	60903	DONG_T2	0	0	0	0	0	0	0.53	0.68	1	1	0	600	600	0
1/31/2025 18:57	45501	DERR_T2	0	0	0	0	0	0	0.2	0.06	1	1	0	600	600	0
1/31/2025 18:57	60901	DONG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
1/31/2025 18:57	58401	MORO_T1	0	0	0	0	0	0	-0.98	-1.12	1	1	0	600	600	0
1/31/2025 18:58	63602	LETO_T1	16	2	-14	0.1	0.1	0	-0.51	-0.53	0	0	0	0	0	0
1/31/2025 18:58	63601	LETO_T1	2	4	2	0.15	0.15	0	0	0	0	0	0	0	0	0
1/31/2025 18:59	20603	GRWO_T2	30	28	-2	0.38	0.31	-0.07	0.48	0.46	0	0	0	0	0	0
1/31/2025 18:59	20601	GRWO_T2	1	1	0	1.7	1.2	-0.5	0	0	0	0	0	0	0	0
1/31/2025 18:59	61503	EPET_T1	0	0	0	0	0	0	-1.12	-0.46	0	0	0	0	0	0
1/31/2025 18:59	61502	EPET_T1	2	9	7	0.1	0.14	0.04	0	0	0	0	0	0	0	0
1/31/2025 18:59	57205	ROSS_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
1/31/2025 19:00	57201	ROSS_T1	0	0	0	0	0	0	-0.6	-0.64	0	0	0	0	0	0
1/31/2025 19:00	58201	NEWV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/31/2025 19:01	63802	HEMP_T1	0	0	0	0	0	0	0.28	0.24	0	0	0	0	0	0
1/31/2025 19:01	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
1/31/2025 19:02	66302	MCGO_T2	1	0	-1	9.3	0	-9.3	-2.04	-1.85	0	0	0	0	0	0
1/31/2025 19:02	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/31/2025 19:02	66303	MCGO_T2	1	1	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
1/31/2025 19:02	57201	ROSS_T1	0	0	0	0	0	0	-0.6	-0.64	0	0	0	0	0	0
1/31/2025 19:03	57201	ROSS_T1	0	0	0	0	0	0	-0.6	-0.64	0	0	0	0	0	0
1/31/2025 19:03	64904	MILL_T1	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
1/31/2025 19:03	61503	EPET_T1	0	0	0	0	0	0	-1.12	-0.46	0	0	0	0	0	0
1/31/2025 19:03	61502	EPET_T1	9	0	-9	0.14	0	-0.14	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
1/31/2025 19:03	58401	MORO_T1	0	0	0	0	0	0	-0.98	-1.12	1	1	0	600	600	0
1/31/2025 19:03	44505	HAMI_T2	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
1/31/2025 19:03	44502	HAMI_T2	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
1/31/2025 19:04	66303	MCGO_T2	1	1	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
1/31/2025 19:04	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/31/2025 19:04	66302	MCGO_T2	1	0	-1	9.3	0	-9.3	0	0	0	0	0	0	0	0
1/31/2025 19:04	13704	SCHN_T2	1	4	3	0.1	0.18	0.08	-0.91	-0.93	0	0	0	0	0	0
1/31/2025 19:04	66301	MCGO_T2	0	0	0	0	0	0	-1.27	-1.28	0	0	0	0	0	0
1/31/2025 19:04	44502	HAMI_T2	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
1/31/2025 19:05	54502	ENOL_T2	1	1	0	0.2	0.5	0.3	-1.99	-1.99	1	1	0	600	600	0
1/31/2025 19:05	54503	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
1/31/2025 19:05	54505	ENOL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
1/31/2025 19:05	66202	SISP_T2	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
1/31/2025 19:05	54501	ENOL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
1/31/2025 19:06	63601	LETO_T1	4	3	-1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
1/31/2025 19:06	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
1/31/2025 19:06	63602	LETO_T1	1	1	0	0.1	0.1	0	-0.51	-0.53	0	0	0	0	0	0
1/31/2025 19:06	63801	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/31/2025 19:07	61502	EPET_T1	9	0	-9	0.14	0	-0.14	-1.16	-1.18	0	0	0	0	0	0
1/31/2025 19:07	60903	DONG_T2	0	0	0	0	0	0	0.68	0.62	1	1	0	600	600	0
1/31/2025 19:08	58401	MORO_T1	0	0	0	0	0	0	-2.24	-2.16	2	2	0	1200	1200	0
1/31/2025 19:08	63501	HEID_TBK1-2	9	12	3	0.22	0.28	0.06	0.35	0.38	0	0	0	0	0	0
1/31/2025 19:09	60902	DONG_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
1/31/2025 19:10	14602	SWHI_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
1/31/2025 19:10	14603	SWHI_T1	0	0	0	0	0	0	-1.62	-1.62	2	2	0	1200	1200	0
1/31/2025 19:11	58202	NEWV_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
1/31/2025 19:12	13903	SEID_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
1/31/2025 19:12	63801	HEMP_T1	0	0	0	0	0	0	-0.11	-0.4	0	0	0	0	0	0
1/31/2025 19:12	13904	SEID_T1	20	23	3	0.4	0.42	0.02	0	0	0	0	0	0	0	0
1/31/2025 19:12	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
1/31/2025 19:12	13901	SEID_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	1200	1200	0
1/31/2025 19:13	61304	EARL_T1	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
1/31/2025 19:16	63804	HEMP_T1	1	1	0	5.6	6	0.4	0	0	0	0	0	0	0	0
1/31/2025 19:16	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/31/2025 19:16	63803	HEMP_T1	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
1/31/2025 19:16	61304	EARL_T1	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
1/31/2025 19:18	67402	WAKE_T2	1	0	-1	0.1	0	-0.1	0.5	0.44	0	0	0	0	0	0
1/31/2025 19:18	67401	WAKE_T2	2	21	19	0.1	0.16	0.06	0	0	0	0	0	0	0	0
1/31/2025 19:18	61304	EARL_T1	0	0	0	0	0	0	-0.27	-0.24	0	0	0	0	0	0
1/31/2025 19:20	57201	ROSS_T1	0	0	0	0	0	0	-0.64	-0.58	0	0	0	0	0	0
1/31/2025 20:47	47901	HRDG_T1	0	0	0	0	0	0	1.49	1.37	0	0	0	0	0	0
2/1/2025 8:10	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
2/1/2025 8:13	46203	DANV_T2	0	0	0	0	0	0	-3.44	-3.5	0	0	0	0	0	0
2/1/2025 8:13	46204	DANV_T2	1	3	2	1.9	0.1	-1.8	0	0	0	0	0	0	0	0
2/1/2025 8:19	52001	LING_T1	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
2/1/2025 8:27	49803	UNIV_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
2/1/2025 8:27	49804	UNIV_T1	0	0	0	0	0	0	0.56	0.67	0	0	0	0	0	0
2/1/2025 8:28	46204	DANV_T2	3	2	-1	0.63	0	-0.63	0	0	0	0	0	0	0	0
2/1/2025 8:28	46206	DANV_T2	0	0	0	0	0	0	0.19	0.22	2	2	0	2100	2100	0
2/1/2025 8:30	46204	DANV_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/1/2025 8:30	46206	DANV_T2	0	0	0	0	0	0	0.19	0.22	2	2	0	2100	2100	0
2/1/2025 8:32	53502	EVIL_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/1/2025 8:32	53501	EVIL_T2	0	2	2	0	0.45	0.45	-0.63	-0.63	0	0	0	0	0	0
2/1/2025 8:37	44902	SCOT_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/1/2025 8:37	44901	SCOT_T2	0	29	29	0	0.19	0.19	-0.45	-0.36	0	0	0	0	0	0
2/1/2025 8:38	44902	SCOT_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/1/2025 8:38	44901	SCOT_T2	0	29	29	0	0.19	0.19	-0.45	-0.36	0	0	0	0	0	0
2/1/2025 8:39	63501	HEID_TBK1-2	1	5	4	0.1	0.12	0.02	-0.37	-0.41	1	1	0	900	900	0
2/1/2025 8:40	44901	SCOT_T2	0	29	29	0	0.19	0.19	0	0	0	0	0	0	0	0
2/1/2025 8:40	44902	SCOT_T2	0	1	1	0	0.2	0.2	-0.97	-0.94	0	0	0	0	0	0
2/1/2025 8:42	45502	DERR_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/1/2025 8:42	44801	EDAN_T2	0	0	0	0	0	0	-0.37	-0.41	0	0	0	0	0	0
2/1/2025 8:42	45501	DERR_T2	1	0	-1	0.3	0	-0.3	0.39	0.38	1	1	0	600	600	0
2/1/2025 8:44	44801	EDAN_T2	0	0	0	0	0	0	-0.37	-0.41	0	0	0	0	0	0
2/1/2025 8:45	44801	EDAN_T2	0	0	0	0	0	0	-0.37	-0.41	0	0	0	0	0	0
2/1/2025 8:48	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 8:48	63803	HEMP_T1	0	0	0	0	0	0	0.44	0.53	0	0	0	0	0	0
2/1/2025 8:48	63804	HEMP_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
2/1/2025 8:48	52403	GRPA_T2	2	8	6	1.25	0.58	-0.67	-1.21	-1.23	0	0	0	0	0	0
2/1/2025 8:49	63801	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 8:49	63804	HEMP_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
2/1/2025 8:54	44902	SCOT_T2	1	1	0	0.2	0.2	0	-0.94	-0.95	0	0	0	0	0	0
2/1/2025 8:54	44901	SCOT_T2	7	56	49	0.16	0.2	0.04	0	0	0	0	0	0	0	0
2/1/2025 8:55	44301	BEAV_T2	1	1	0	0.2	0	-0.2	-0.77	-0.78	1	1	0	600	600	0
2/1/2025 8:56	42701	AUGU_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/1/2025 8:59	45502	DERR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/1/2025 8:59	45501	DERR_T2	0	0	0	0	0	0	0.38	0.37	1	1	0	600	600	0
2/1/2025 8:59	44301	BEAV_T2	1	1	0	0.2	0	-0.2	-0.77	-0.78	1	1	0	600	600	0
2/1/2025 9:00	52403	GRPA_T2	6	15	9	0.62	0.68	0.06	-1.23	-1.21	0	0	0	0	0	0
2/1/2025 9:00	52402	GRPA_T2	1	6	5	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/1/2025 9:00	66203	SISP_T2	0	0	0	0	0	0	-0.94	-0.85	1	1	0	1200	1200	0
2/1/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.35	0.31	0	0	0	0	0	0
2/1/2025 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
2/1/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
2/1/2025 9:05	46802	HEPB_T1	1	1	0	1.5	1.7	0.2	-1.23	-1.26	0	0	0	0	0	0
2/1/2025 9:06	66502	SMAN_T2	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
2/1/2025 9:06	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/1/2025 9:09	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/1/2025 9:09	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 9:10	63501	HEID_TBK1-2	2	46	44	0.1	0.26	0.16	-0.38	-0.37	1	1	0	900	900	0
2/1/2025 9:10	29402	BELT_T1	5	5	0	1.34	6.6	5.26	0	0	0	0	0	0	0	0
2/1/2025 9:11	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/1/2025 9:11	66502	SMAN_T2	0	0	0	0	0	0	-0.19	0.03	0	0	0	0	0	0
2/1/2025 9:11	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
2/1/2025 9:11	40201	BEGA_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
2/1/2025 9:12	61001	DONV_T1	0	0	0	0	0	0	-0.17	-0.05	0	0	0	0	0	0
2/1/2025 9:12	40201	BEGA_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
2/1/2025 9:13	45501	DERR_T2	0	0	0	0	0	0	0.37	0.34	1	1	0	600	600	0
2/1/2025 9:13	45502	DERR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/1/2025 9:13	29402	BELT_T1	5	5	0	1.34	6.6	5.26	0	0	0	0	0	0	0	0
2/1/2025 9:14	10801	CHHI_T1	0	2	2	0	0.2	0.2	-1.91	-1.85	3	3	0	2100	2100	0
2/1/2025 9:14	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 9:15	45501	DERR_T2	0	0	0	0	0	0	0.37	0.34	1	1	0	600	600	0
2/1/2025 9:15	61001	DONV_T1	0	1	1	0	0.1	0.1	-0.34	-0.1	0	0	0	0	0	0
2/1/2025 9:15	45502	DERR_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/1/2025 9:21	52402	GRPA_T2	0	19	19	0	0.23	0.23	0	0	0	0	0	0	0	0
2/1/2025 9:21	52403	GRPA_T2	6	23	17	0.68	0.8	0.12	-0.95	-0.69	0	0	0	0	0	0
2/1/2025 9:23	59402	RFLD_T2	0	0	0	0	0	0	-0.9	-0.91	1	1	0	450	450	0
2/1/2025 9:26	44301	BEAV_T2	0	2	2	0	0.1	0.1	-0.76	-0.74	1	1	0	600	600	0
2/1/2025 9:26	40201	BEGA_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/1/2025 9:27	46204	DANV_T2	9	4	-5	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
2/1/2025 9:27	44301	BEAV_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/1/2025 9:27	46203	DANV_T2	0	0	0	0	0	0	-3.5	-3.54	0	0	0	0	0	0
2/1/2025 9:28	61304	EARL_T1	0	0	0	0	0	0	-0.88	-0.9	1	1	0	600	600	0
2/1/2025 9:32	20603	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/1/2025 9:32	20601	GRWO_T2	6	6	0	0.53	0	-0.53	1.01	0.99	0	0	0	0	0	0
2/1/2025 9:32	52001	LING_T1	0	0	0	0	0	0	-1	-1.03	0	0	0	0	0	0
2/1/2025 9:36	64201	KINZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/1/2025 9:36	64203	KINZ_T1	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
2/1/2025 9:36	64204	KINZ_T1	2	13	11	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
2/1/2025 9:36	26401	INOR_T1	96	99	3	1.06	0.6	-0.46	0	0	0	0	0	0	0	0
2/1/2025 9:36	26402	INOR_T1	5	8	3	0.32	0	-0.32	-1.79	-1.85	1	1	0	600	600	0
2/1/2025 9:41	46204	DANV_T2	2	4	2	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/1/2025 9:41	46203	DANV_T2	0	0	0	0	0	0	-1.77	-1.78	0	0	0	0	0	0
2/1/2025 9:44	46203	DANV_T2	0	0	0	0	0	0	-1.77	-1.78	0	0	0	0	0	0
2/1/2025 9:44	46204	DANV_T2	2	4	2	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/1/2025 9:45	40702	FFLD_T1	0	1	1	0	0.1	0.1	-2.13	-2.11	1	1	0	1200	1200	0
2/1/2025 9:46	20601	GRWO_T2	6	0	-6	0.55	0	-0.55	0.99	0.13	0	0	0	0	0	0
2/1/2025 9:46	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 9:46	20603	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/1/2025 9:46	40702	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/1/2025 9:46	40101	HUNT_T2	35	38	3	0.52	0.93	0.41	-0.67	-0.68	0	0	0	0	0	0
2/1/2025 9:47	61302	EARL_T1	0	2	2	0	0.2	0.2	-0.23	-0.13	2	2	0	1800	1800	0
2/1/2025 9:47	61304	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/1/2025 9:48	40101	HUNT_T2	35	38	3	0.52	0.93	0.41	-0.67	-0.68	0	0	0	0	0	0
2/1/2025 9:50	26402	INOR_T1	6	4	-2	0.53	0.3	-0.23	-1.79	-1.85	1	1	0	600	600	0
2/1/2025 9:50	26401	INOR_T1	98	101	3	0.8	0.61	-0.19	0	0	0	0	0	0	0	0
2/1/2025 9:52	63501	HEID_TBK1-2	8	24	16	0.16	0.16	0	-0.38	-0.41	1	1	0	900	900	0
2/1/2025 9:53	63501	HEID_TBK1-2	8	24	16	0.16	0.16	0	-0.38	-0.41	1	1	0	900	900	0
2/1/2025 9:56	27901	BCRK_T1	4	7	3	1.9	1.78	-0.12	0	0	0	0	0	0	0	0
2/1/2025 10:02	64204	KINZ_T1	3	47	44	0.77	0.51	-0.26	0	0	0	0	0	0	0	0
2/1/2025 10:02	52401	GRPA_T2	0	0	0	0	0	0	-1.32	-1.26	0	0	0	0	0	0
2/1/2025 10:02	64203	KINZ_T1	0	1	1	0	0.6	0.6	0.24	0.25	0	0	0	0	0	0
2/1/2025 10:02	64202	KINZ_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
2/1/2025 10:02	52403	GRPA_T2	15	20	5	0.7	0.69	-0.01	0	0	0	0	0	0	0	0
2/1/2025 10:02	64201	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/1/2025 10:02	52402	GRPA_T2	22	28	6	0.41	0.25	-0.16	0	0	0	0	0	0	0	0
2/1/2025 10:02	61302	EARL_T1	1	2	1	0.3	0.6	0.3	-0.13	-0.24	2	2	0	1800	1800	0
2/1/2025 10:02	20603	GRWO_T2	1	0	-1	0.1	0	-0.1	0.46	0.51	0	0	0	0	0	0
2/1/2025 10:02	63804	HEMP_T1	1	2	1	6.3	6.2	-0.1	0.81	0.81	0	0	0	0	0	0
2/1/2025 10:02	61304	EARL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/1/2025 10:05	60504	NMAN_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
2/1/2025 10:05	60501	NMAN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/1/2025 10:05	58402	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/1/2025 10:05	60502	NMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/1/2025 10:05	58401	MORO_T1	1	0	-1	0.2	0	-0.2	-1.11	-1.1	1	1	0	600	600	0
2/1/2025 10:06	52403	GRPA_T2	15	20	5	0.7	0.69	-0.01	-0.73	-0.74	0	0	0	0	0	0
2/1/2025 10:06	52402	GRPA_T2	22	28	6	0.41	0.25	-0.16	0	0	0	0	0	0	0	0
2/1/2025 10:07	60504	NMAN_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
2/1/2025 10:07	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/1/2025 10:07	66505	SMAN_T2	0	0	0	0	0	0	-0.26	-0.28	1	1	0	900	900	0
2/1/2025 10:07	60502	NMAN_T2	1	0	-1	0.3	0	-0.3	-0.53	-0.47	0	0	0	0	0	0
2/1/2025 10:07	60501	NMAN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/1/2025 10:08	60501	NMAN_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/1/2025 10:08	13102	NHAM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/1/2025 10:08	58402	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/1/2025 10:08	58401	MORO_T1	1	0	-1	0.2	0	-0.2	-1.1	-1.14	1	1	0	600	600	0
2/1/2025 10:08	60504	NMAN_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
2/1/2025 10:08	13103	NHAM_T2	0	0	0	0	0	0	-1.63	-1.64	1	1	0	600	600	0
2/1/2025 10:08	60502	NMAN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/1/2025 10:08	13105	NHAM_T2	7	7	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/1/2025 10:10	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 10:11	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.3	0.31	1	1	0	600	600	0
2/1/2025 10:13	40701	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 10:13	40702	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/1/2025 10:14	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/1/2025 10:14	29402	BELT_T1	1	1	0	6.5	6.7	0.2	0	0	0	0	0	0	0	0
2/1/2025 10:16	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
2/1/2025 10:16	22601	KIMB_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
2/1/2025 10:16	40101	HUNT_T2	32	42	10	0.75	0.79	0.04	-0.67	-0.68	0	0	0	0	0	0
2/1/2025 10:16	22602	KIMB_T1	0	1	1	0	0.2	0.2	0.15	0.14	0	0	0	0	0	0
2/1/2025 10:16	45501	DERR_T2	0	0	0	0	0	0	0.3	0.31	1	1	0	600	600	0
2/1/2025 10:18	52006	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/1/2025 10:18	52004	LING_T2	2	2	0	4.95	5.1	0.15	0	0	0	0	0	0	0	0
2/1/2025 10:21	47802	MOCA_T2	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
2/1/2025 10:22	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 10:23	65802	RTWN_T2	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
2/1/2025 10:23	65803	RTWN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/1/2025 10:24	13702	SCHN_T1	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
2/1/2025 10:24	13705	SCHN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/1/2025 10:25	60801	BUCK_T1	1	1	0	0.3	0.5	0.2	-0.2	-0.18	0	0	0	0	0	0
2/1/2025 10:25	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/1/2025 10:26	13704	SCHN_T2	0	0	0	0	0	0	-0.87	-0.88	0	0	0	0	0	0
2/1/2025 10:26	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/1/2025 10:26	60801	BUCK_T1	1	1	0	0.3	0.5	0.2	-0.2	-0.18	0	0	0	0	0	0
2/1/2025 10:27	60801	BUCK_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/1/2025 10:27	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/1/2025 10:28	61304	EARL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/1/2025 10:28	61302	EARL_T1	2	3	1	0.2	0.47	0.27	0	0	0	0	0	0	0	0
2/1/2025 10:29	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/1/2025 10:29	60801	BUCK_T1	1	1	0	0.3	0.5	0.2	-0.2	-0.18	0	0	0	0	0	0
2/1/2025 10:30	61302	EARL_T1	2	3	1	0.6	0.47	-0.13	0	0	0	0	0	0	0	0
2/1/2025 10:30	61304	EARL_T1	1	1	0	0.2	0.3	0.1	-0.94	-0.9	1	1	0	600	600	0
2/1/2025 10:33	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/1/2025 10:33	61302	EARL_T1	2	3	1	0.6	0.47	-0.13	0.36	0.29	1	1	0	1200	1200	0
2/1/2025 10:33	61304	EARL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/1/2025 10:33	62106	ELAN_T1	0	1	1	0	0.3	0.3	0.02	0.04	0	0	0	0	0	0
2/1/2025 10:34	52403	GRPA_T2	14	27	13	0.73	0.48	-0.25	-0.74	-0.74	0	0	0	0	0	0
2/1/2025 10:34	52402	GRPA_T2	21	16	-5	0.45	0.29	-0.16	0	0	0	0	0	0	0	0
2/1/2025 10:36	58101	NEKI_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
2/1/2025 10:36	58102	NEKI_T1	1	1	0	0.8	0.8	0	-1.12	-0.99	1	1	0	1200	1200	0
2/1/2025 10:37	60504	NMAN_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
2/1/2025 10:37	52403	GRPA_T2	14	27	13	0.73	0.48	-0.25	0	0	0	0	0	0	0	0
2/1/2025 10:37	60502	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/1/2025 10:37	60501	NMAN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/1/2025 10:37	52402	GRPA_T2	21	16	-5	0.45	0.29	-0.16	0	0	0	0	0	0	0	0
2/1/2025 10:38	52402	GRPA_T2	21	16	-5	0.45	0.29	-0.16	0	0	0	0	0	0	0	0
2/1/2025 10:38	52403	GRPA_T2	14	27	13	0.73	0.48	-0.25	0	0	0	0	0	0	0	0
2/1/2025 10:40	46004	BERW_T2	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
2/1/2025 10:40	46003	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 10:44	11202	ELHE_T2	0	0	0	0	0	0	0.45	0.43	1	1	0	1200	1200	0
2/1/2025 10:45	46004	BERW_T2	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
2/1/2025 10:45	46003	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 10:47	20603	GRWO_T2	0	2	2	0	0.25	0.25	0.48	0.5	0	0	0	0	0	0
2/1/2025 10:50	22602	KIMB_T1	1	2	1	0.2	0.15	-0.05	0.16	0.16	0	0	0	0	0	0
2/1/2025 10:50	22601	KIMB_T1	1	3	2	0.7	0.8	0.1	0	0	0	0	0	0	0	0
2/1/2025 10:52	63501	HEID_TBK1-2	21	10	-11	0.13	0.16	0.03	-0.38	-0.26	1	1	0	900	900	0
2/1/2025 10:53	63501	HEID_TBK1-2	21	10	-11	0.13	0.16	0.03	-0.38	-0.26	1	1	0	900	900	0
2/1/2025 10:53	64101	REFR_T1	1	1	0	0.5	0.5	0	-0.06	-0.05	0	0	0	0	0	0
2/1/2025 10:54	52402	GRPA_T2	13	13	0	0.52	0.5	-0.02	0	0	0	0	0	0	0	0
2/1/2025 10:54	63501	HEID_TBK1-2	21	10	-11	0.13	0.16	0.03	-0.38	-0.26	1	1	0	900	900	0
2/1/2025 10:54	13303	ORVI_T1	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
2/1/2025 10:54	52403	GRPA_T2	24	18	-6	0.49	0.52	0.03	-0.76	-0.82	0	0	0	0	0	0
2/1/2025 10:55	63501	HEID_TBK1-2	21	10	-11	0.13	0.16	0.03	-0.38	-0.26	1	1	0	900	900	0
2/1/2025 10:55	42601	TUSC_T1	54	61	7	0.54	0.48	-0.06	-0.42	-0.39	2	2	0	1800	1800	0
2/1/2025 10:56	14401	SSLA_T1	3	0	-3	0.97	0	-0.97	0	0	0	0	0	0	0	0
2/1/2025 10:56	66201	SISP_T2	0	1	1	0	0	0	-0.44	-0.45	0	0	0	0	0	0
2/1/2025 10:56	14403	SSLA_T1	1	4	3	0.5	0.2	-0.3	0.67	0.67	0	0	0	0	0	0
2/1/2025 10:56	66203	SISP_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/1/2025 10:58	10801	CHHI_T1	2	7	5	0.65	0.39	-0.26	-1.87	-1.9	3	3	0	2100	2100	0
2/1/2025 10:59	60801	BUCK_T1	1	6	5	0.5	0.25	-0.25	-0.18	-0.18	0	0	0	0	0	0
2/1/2025 10:59	60803	BUCK_T1	1	9	8	0.1	0.21	0.11	0	0	0	0	0	0	0	0
2/1/2025 11:00	28403	HART_T2	0	0	0	0	0	0	-0.82	-0.83	1	1	0	900	900	0
2/1/2025 11:00	10801	CHHI_T1	4	8	4	0.45	0.47	0.02	-1.87	-1.9	3	3	0	2100	2100	0
2/1/2025 11:01	64202	KINZ_T1	2	2	0	0.25	0.15	-0.1	0.67	0.7	0	0	0	0	0	0
2/1/2025 11:01	64204	KINZ_T1	43	64	21	0.5	0.59	0.09	0	0	0	0	0	0	0	0
2/1/2025 11:01	64201	KINZ_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/1/2025 11:01	64203	KINZ_T1	1	1	0	0.5	0.7	0.2	0.16	0.19	0	0	0	0	0	0
2/1/2025 11:05	64201	KINZ_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/1/2025 11:05	64202	KINZ_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
2/1/2025 11:05	64204	KINZ_T1	43	64	21	0.5	0.59	0.09	0	0	0	0	0	0	0	0
2/1/2025 11:05	64203	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/1/2025 11:06	13302	ORVI_T2	122	121	-1	0.22	0.25	0.03	0.69	0.7	0	0	0	0	0	0
2/1/2025 11:08	14403	SSLA_T1	1	5	4	0.2	0.4	0.2	0.67	0.69	0	0	0	0	0	0
2/1/2025 11:10	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 11:12	60801	BUCK_T1	3	7	4	0.37	0.29	-0.08	0	0	0	0	0	0	0	0
2/1/2025 11:12	60803	BUCK_T1	3	9	6	0.13	0.21	0.08	-0.47	-0.48	1	1	0	600	600	0
2/1/2025 11:12	60201	ATGL_T2	0	0	0	0	0	0	0.78	0.83	0	0	0	0	0	0
2/1/2025 11:12	45303	WBER_T2	1	1	0	9.4	9.2	-0.2	0	0	0	0	0	0	0	0
2/1/2025 11:12	45302	WBER_T2	0	0	0	0	0	0	0.66	0.7	0	0	0	0	0	0
2/1/2025 11:14	60801	BUCK_T1	3	7	4	0.37	0.29	-0.08	0	0	0	0	0	0	0	0
2/1/2025 11:14	60803	BUCK_T1	3	9	6	0.13	0.21	0.08	-0.47	-0.48	1	1	0	600	600	0
2/1/2025 11:15	62102	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/1/2025 11:15	60803	BUCK_T1	9	5	-4	0.21	0.16	-0.05	-0.47	-0.48	1	1	0	600	600	0
2/1/2025 11:15	62105	ELAN_T1	0	2	2	0	0.15	0.15	0.48	0.47	0	0	0	0	0	0
2/1/2025 11:15	60801	BUCK_T1	6	5	-1	0.23	0.36	0.13	0	0	0	0	0	0	0	0
2/1/2025 11:15	62106	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/1/2025 11:16	60803	BUCK_T1	9	5	-4	0.21	0.16	-0.05	-0.94	-0.96	2	2	0	1200	1200	0
2/1/2025 11:16	60801	BUCK_T1	6	5	-1	0.23	0.36	0.13	0	0	0	0	0	0	0	0
2/1/2025 11:20	64203	KINZ_T1	1	2	1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
2/1/2025 11:20	64201	KINZ_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/1/2025 11:20	65205	PRIN_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
2/1/2025 11:20	64101	REFR_T1	1	2	1	0.5	0.35	-0.15	-0.05	-0.06	0	0	0	0	0	0
2/1/2025 11:20	64202	KINZ_T1	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
2/1/2025 11:20	64204	KINZ_T1	63	59	-4	0.59	0.51	-0.08	0	0	0	0	0	0	0	0
2/1/2025 11:21	65802	RTWN_T2	0	0	0	0	0	0	-0.2	-0.17	0	0	0	0	0	0
2/1/2025 11:21	65803	RTWN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/1/2025 11:23	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 11:25	55105	WERT_T1	0	0	0	0	0	0	-0.69	-0.66	1	1	0	900	900	0
2/1/2025 11:25	20403	ASHF_T2	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
2/1/2025 11:25	20401	ASHF_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
2/1/2025 11:26	20401	ASHF_T2	1	2	1	0.2	0.25	0.05	-0.91	-0.95	1	1	0	600	600	0
2/1/2025 11:27	20401	ASHF_T2	1	2	1	0.2	0.25	0.05	-0.91	-0.95	1	1	0	600	600	0
2/1/2025 11:27	40201	BEGA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/1/2025 11:29	20401	ASHF_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
2/1/2025 11:29	20403	ASHF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 11:30	24105	EHAZ_T1	4	4	0	6.65	6.63	-0.02	0	0	0	0	0	0	0	0
2/1/2025 11:30	24104	EHAZ_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/1/2025 11:30	24103	EHAZ_T1	3	0	-3	0.3	0	-0.3	-1.49	-1.52	0	0	0	0	0	0
2/1/2025 11:30	44502	HAMI_T2	1	1	0	2.6	2.5	-0.1	0	0	0	0	0	0	0	0
2/1/2025 11:30	24101	EHAZ_T1	30	29	-1	1.46	0.75	-0.71	0	0	0	0	0	0	0	0
2/1/2025 11:30	24102	EHAZ_T1	1	5	4	1.7	1.1	-0.6	0	0	0	0	0	0	0	0
2/1/2025 11:30	44505	HAMI_T2	2	2	0	0.3	0.45	0.15	-0.56	-0.56	0	0	0	0	0	0
2/1/2025 11:31	44502	HAMI_T2	1	1	0	2.6	2.5	-0.1	0	0	0	0	0	0	0	0
2/1/2025 11:31	44505	HAMI_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
2/1/2025 11:32	44505	HAMI_T2	2	2	0	0.3	0.45	0.15	0	0	0	0	0	0	0	0
2/1/2025 11:32	44502	HAMI_T2	1	1	0	2.6	2.5	-0.1	0	0	0	0	0	0	0	0
2/1/2025 11:33	13502	MCMI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/1/2025 11:36	52403	GRPA_T2	14	28	14	0.54	0.44	-0.1	-0.83	-0.84	0	0	0	0	0	0
2/1/2025 11:36	52402	GRPA_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/1/2025 11:37	52404	GRPA_T2	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
2/1/2025 11:37	52403	GRPA_T2	14	28	14	0.54	0.44	-0.1	0	0	0	0	0	0	0	0
2/1/2025 11:37	52402	GRPA_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/1/2025 11:42	25801	SUTR_T2	2	2	0	9.8	9.95	0.15	-0.58	-0.56	0	0	0	0	0	0
2/1/2025 11:45	20603	GRWO_T2	1	5	4	0.2	0.22	0.02	0	0	0	0	0	0	0	0
2/1/2025 11:45	20601	GRWO_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
2/1/2025 11:51	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 11:52	52403	GRPA_T2	10	29	19	0.74	0.46	-0.28	0	0	0	0	0	0	0	0
2/1/2025 11:52	52402	GRPA_T2	1	5	4	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
2/1/2025 11:54	13902	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 11:54	13904	SEID_T1	1	19	18	0.2	0.26	0.06	0	0	0	0	0	0	0	0
2/1/2025 11:54	13905	SEID_T1	0	1	1	0	0.1	0.1	-0.97	-0.93	1	1	0	1200	1200	0
2/1/2025 11:56	16102	BING_T2	6	6	0	0.42	0.68	0.26	0	0	0	0	0	0	0	0
2/1/2025 11:56	40201	BEGA_T2	1	2	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
2/1/2025 11:56	16101	BING_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/1/2025 11:56	16103	BING_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/1/2025 11:58	54501	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 11:58	16103	BING_T2	1	1	0	0.8	0.7	-0.1	-1.58	-1.59	1	1	0	900	900	0
2/1/2025 11:58	54504	ENOL_T2	0	0	0	0	0	0	-1.05	-1.06	1	1	0	600	600	0
2/1/2025 11:58	54505	ENOL_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
2/1/2025 11:58	16101	BING_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/1/2025 11:58	16102	BING_T2	6	6	0	0.42	0.68	0.26	0	0	0	0	0	0	0	0
2/1/2025 11:59	40201	BEGA_T2	1	2	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
2/1/2025 12:00	45501	DERR_T2	0	1	1	0	0.1	0.1	0.3	0.29	1	1	0	600	600	0
2/1/2025 12:01	20601	GRWO_T2	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
2/1/2025 12:01	20603	GRWO_T2	2	10	8	0.25	0.23	-0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/1/2025 12:02	26401	INOR_T1	15	13	-2	1.09	3.43	2.34	0.65	0.59	0	0	0	0	0	0
2/1/2025 12:05	26401	INOR_T1	15	13	-2	1.09	3.43	2.34	0	0	0	0	0	0	0	0
2/1/2025 12:06	58401	MORO_T1	1	3	2	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
2/1/2025 12:06	58402	MORO_T1	0	0	0	0	0	0	-0.42	-0.39	2	2	0	1500	1500	0
2/1/2025 12:11	67702	WERN_T2	1	1	0	0.5	0.5	0	-0.7	-0.71	0	0	0	0	0	0
2/1/2025 12:11	67703	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/1/2025 12:12	67703	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/1/2025 12:12	67702	WERN_T2	1	1	0	0.5	0.5	0	-0.7	-0.71	0	0	0	0	0	0
2/1/2025 12:13	61803	EELI_T2	0	0	0	0	0	0	0.82	0.81	0	0	0	0	0	0
2/1/2025 12:16	45501	DERR_T2	1	1	0	0.1	0.1	0	0.29	0.22	1	1	0	600	600	0
2/1/2025 12:24	14603	SWHI_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/1/2025 12:24	44201	POIN_T1	0	5	5	0	0.1	0.1	-1.59	-1.59	1	1	0	1200	1200	0
2/1/2025 12:29	53502	EVIL_T2	0	0	0	0	0	0	0.83	0.83	0	0	0	0	0	0
2/1/2025 12:29	53501	EVIL_T2	3	3	0	0.77	0.83	0.06	-0.7	-0.69	0	0	0	0	0	0
2/1/2025 12:30	54504	ENOL_T2	0	0	0	0	0	0	-1.06	-1.07	1	1	0	600	600	0
2/1/2025 12:30	54505	ENOL_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
2/1/2025 12:30	10805	CHHI_T2	1	1	0	8.2	7.7	-0.5	-0.85	-0.55	0	0	0	0	0	0
2/1/2025 12:30	44801	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 12:30	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/1/2025 12:34	64203	KINZ_T1	2	1	-1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/1/2025 12:34	64202	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/1/2025 12:34	64204	KINZ_T1	64	45	-19	0.69	0.5	-0.19	0	0	0	0	0	0	0	0
2/1/2025 12:34	64201	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/1/2025 12:35	44201	POIN_T1	5	24	19	0.1	0.14	0.04	-1.59	-1.59	1	1	0	1200	1200	0
2/1/2025 12:36	41902	REED_T1	13	15	2	1.07	0.2	-0.87	0.93	0.91	0	0	0	0	0	0
2/1/2025 12:37	41902	REED_T1	13	15	2	1.07	0.2	-0.87	0.91	0.91	0	0	0	0	0	0
2/1/2025 12:39	41902	REED_T1	13	15	2	1.07	0.2	-0.87	0.91	0.91	0	0	0	0	0	0
2/1/2025 12:40	41902	REED_T1	13	15	2	1.07	0.2	-0.87	0.91	0.91	0	0	0	0	0	0
2/1/2025 12:46	44502	HAMI_T2	1	1	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
2/1/2025 12:46	44505	HAMI_T2	2	2	0	0.35	0.3	-0.05	-0.28	-0.28	0	0	0	0	0	0
2/1/2025 12:47	61701	ELIZ_T1	2	2	0	3.3	3.25	-0.05	-0.29	-0.32	0	0	0	0	0	0
2/1/2025 12:47	61703	ELIZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/1/2025 12:47	44502	HAMI_T2	1	1	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
2/1/2025 12:47	44505	HAMI_T2	2	2	0	0.35	0.3	-0.05	-0.28	-0.28	0	0	0	0	0	0
2/1/2025 12:50	58401	MORO_T1	1	2	1	0.3	0.2	-0.1	-1.19	-1.19	1	1	0	600	600	0
2/1/2025 12:52	57205	ROSS_T1	2	2	0	1.05	1.15	0.1	-0.92	-0.9	1	1	0	900	900	0
2/1/2025 12:53	58401	MORO_T1	1	2	1	0.3	0.2	-0.1	-1.19	-1.22	1	1	0	600	600	0
2/1/2025 12:55	67401	WAKE_T2	2	2	0	0.15	0.2	0.05	-1.18	-1.13	0	0	0	0	0	0
2/1/2025 12:57	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 12:58	62102	ELAN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/1/2025 12:58	11901	ETEX_T2	0	1	1	0	0.1	0.1	0.27	0.28	0	0	0	0	0	0
2/1/2025 12:58	67401	WAKE_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
2/1/2025 12:58	62106	ELAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/1/2025 12:58	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 12:58	67402	WAKE_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
2/1/2025 12:59	67402	WAKE_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
2/1/2025 12:59	40201	BEGA_T2	1	1	0	1.7	0.4	-1.3	0	0	0	0	0	0	0	0
2/1/2025 12:59	62102	ELAN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/1/2025 12:59	67401	WAKE_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
2/1/2025 12:59	62106	ELAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/1/2025 13:00	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 13:00	11901	ETEX_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/1/2025 13:00	11904	ETEX_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
2/1/2025 13:01	46204	DANV_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/1/2025 13:01	46203	DANV_T2	1	2	1	0.1	0.25	0.15	-1.95	-1.95	0	0	0	0	0	0
2/1/2025 13:01	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 13:02	11901	ETEX_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/1/2025 13:02	11904	ETEX_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
2/1/2025 13:03	20601	GRWO_T2	0	0	0	0	0	0	0.04	0.06	0	0	0	0	0	0
2/1/2025 13:03	65501	MOJO_T1	0	0	0	0	0	0	-0.61	-0.6	1	1	0	900	900	0
2/1/2025 13:03	20603	GRWO_T2	20	18	-2	0.26	0.26	0	0	0	0	0	0	0	0	0
2/1/2025 13:04	10903	COOP_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
2/1/2025 13:04	65503	MOJO_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
2/1/2025 13:04	10901	COOP_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/1/2025 13:07	60502	NMAN_T2	2	3	1	0.75	0.43	-0.32	-0.54	-0.55	0	0	0	0	0	0
2/1/2025 13:07	60504	NMAN_T2	2	2	0	0.75	0.15	-0.6	0	0	0	0	0	0	0	0
2/1/2025 13:07	60501	NMAN_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/1/2025 13:09	26401	INOR_T1	4	7	3	3.15	3.35	0.2	0	0	0	0	0	0	0	0
2/1/2025 13:11	60201	ATGL_T2	4	1	-3	0.2	0.1	-0.1	0.84	0.81	0	0	0	0	0	0
2/1/2025 13:13	55002	NEWP_T1	8	10	2	1.01	1.05	0.04	0	0	0	0	0	0	0	0
2/1/2025 13:13	55001	NEWP_T1	1	2	1	0.7	0.55	-0.15	-0.36	-0.34	0	0	0	0	0	0
2/1/2025 13:15	46801	HEPB_T2	2	2	0	0.6	0.75	0.15	0.61	0.63	0	0	0	0	0	0
2/1/2025 13:15	46803	HEPB_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/1/2025 13:16	40101	HUNT_T2	42	30	-12	0.96	0.94	-0.02	-0.71	-0.69	0	0	0	0	0	0
2/1/2025 13:16	17401	FOHI_T1	0	1	1	0	0	0	-1.03	-1.02	0	0	0	0	0	0
2/1/2025 13:17	46801	HEPB_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
2/1/2025 13:17	46803	HEPB_T2	1	2	1	0.2	0.2	0	0.5	0.54	0	0	0	0	0	0
2/1/2025 13:18	40101	HUNT_T2	42	30	-12	0.96	0.94	-0.02	0	0	0	0	0	0	0	0
2/1/2025 13:18	20603	GRWO_T2	15	15	0	0.25	0.26	0.01	0.53	0.51	0	0	0	0	0	0
2/1/2025 13:20	67701	WERN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/1/2025 13:20	67702	WERN_T2	1	1	0	0.5	0.4	-0.1	-0.68	-0.7	0	0	0	0	0	0
2/1/2025 13:20	67703	WERN_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/1/2025 13:21	41902	REED_T1	0	1	1	0	0	0	0.96	0.91	0	0	0	0	0	0
2/1/2025 13:22	41902	REED_T1	0	1	1	0	0	0	0.91	0.92	0	0	0	0	0	0
2/1/2025 13:23	60501	NMAN_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/1/2025 13:23	60502	NMAN_T2	3	2	-1	0.37	0.35	-0.02	-0.55	-0.56	0	0	0	0	0	0
2/1/2025 13:23	60504	NMAN_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
2/1/2025 13:24	41902	REED_T1	0	1	1	0	0	0	1.82	1.84	0	0	0	0	0	0
2/1/2025 13:26	55105	WERT_T1	0	0	0	0	0	0	-0.66	-0.72	1	1	0	900	900	0
2/1/2025 13:26	64101	REFR_T1	3	4	1	0.2	0.85	0.65	-0.05	-0.05	0	0	0	0	0	0
2/1/2025 13:26	57002	WHHI_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
2/1/2025 13:27	57001	WHHI_T2	0	0	0	0	0	0	-0.32	-0.36	1	1	0	900	900	0
2/1/2025 13:27	57002	WHHI_T2	2	2	0	0.15	0.15	0	-2.49	-2.51	1	1	0	1200	1200	0
2/1/2025 13:27	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 13:28	53502	EVIL_T2	0	0	0	0	0	0	0.76	0.83	0	0	0	0	0	0
2/1/2025 13:28	53501	EVIL_T2	2	2	0	0.3	0.65	0.35	0	0	0	0	0	0	0	0
2/1/2025 13:30	53501	EVIL_T2	2	2	0	0.6	0.65	0.05	-0.68	-0.72	0	0	0	0	0	0
2/1/2025 13:31	64203	KINZ_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/1/2025 13:31	64204	KINZ_T1	64	62	-2	0.65	0.59	-0.06	0	0	0	0	0	0	0	0
2/1/2025 13:35	58401	MORO_T1	1	0	-1	0.2	0	-0.2	-2.38	-2.36	2	2	0	1200	1200	0
2/1/2025 13:36	55001	NEWP_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
2/1/2025 13:36	55002	NEWP_T1	10	10	0	1.05	0.9	-0.15	-0.21	-0.25	0	0	0	0	0	0
2/1/2025 13:38	58401	MORO_T1	1	0	-1	0.2	0	-0.2	-1.18	-1.18	1	1	0	600	600	0
2/1/2025 13:39	60501	NMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/1/2025 13:39	64101	REFR_T1	4	3	-1	0.68	1.03	0.35	-0.05	-0.06	0	0	0	0	0	0
2/1/2025 13:39	60504	NMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/1/2025 13:39	60502	NMAN_T2	2	1	-1	0.3	0.4	0.1	-0.56	-0.58	0	0	0	0	0	0
2/1/2025 13:41	42701	AUGU_T1	6	3	-3	0.23	0.53	0.3	0	0	2	2	0	1800	1800	0
2/1/2025 13:41	40201	BEGA_T2	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
2/1/2025 13:43	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 13:43	42701	AUGU_T1	6	3	-3	0.23	0.53	0.3	0	0	2	2	0	1800	1800	0
2/1/2025 13:43	40201	BEGA_T2	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
2/1/2025 13:44	40201	BEGA_T2	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
2/1/2025 13:44	16101	BING_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
2/1/2025 13:44	16103	BING_T2	5	6	1	0.28	0.27	-0.01	-1.62	-1.62	1	1	0	900	900	0
2/1/2025 13:44	16102	BING_T2	9	11	2	0.66	0.58	-0.08	0	0	0	0	0	0	0	0
2/1/2025 13:48	46101	MACJ_T2	0	0	0	0	0	0	-0.55	-0.51	1	1	0	1200	1200	0
2/1/2025 13:49	52006	LING_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/1/2025 13:49	52004	LING_T2	2	2	0	5.3	5.25	-0.05	0.23	0.24	0	0	0	0	0	0
2/1/2025 13:51	52004	LING_T2	2	2	0	5.3	5.25	-0.05	0.24	0.22	0	0	0	0	0	0
2/1/2025 13:51	52006	LING_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/1/2025 13:52	44902	SCOT_T2	3	3	0	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
2/1/2025 13:52	44901	SCOT_T2	53	65	12	0.25	0.28	0.03	-0.22	-0.31	0	0	0	0	0	0
2/1/2025 13:53	44901	SCOT_T2	53	65	12	0.25	0.28	0.03	-0.22	-0.31	0	0	0	0	0	0
2/1/2025 13:53	44902	SCOT_T2	3	3	0	0.3	0.23	-0.07	-0.95	-0.92	0	0	0	0	0	0
2/1/2025 13:53	64101	REFR_T1	3	3	0	1	0.8	-0.2	-0.06	-0.07	0	0	0	0	0	0
2/1/2025 13:54	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 13:55	41902	REED_T1	0	3	3	0	0	0	0.91	0.99	0	0	0	0	0	0
2/1/2025 13:55	44901	SCOT_T2	53	65	12	0.25	0.28	0.03	-0.22	-0.31	0	0	0	0	0	0
2/1/2025 13:55	44902	SCOT_T2	3	3	0	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
2/1/2025 14:05	55002	NEWP_T1	10	9	-1	0.76	0.97	0.21	0	0	0	0	0	0	0	0
2/1/2025 14:05	55001	NEWP_T1	2	1	-1	0.35	0.8	0.45	-0.36	-0.39	0	0	0	0	0	0
2/1/2025 14:09	55002	NEWP_T1	10	9	-1	0.76	0.97	0.21	0	0	0	0	0	0	0	0
2/1/2025 14:09	55001	NEWP_T1	2	1	-1	0.35	0.8	0.45	-0.39	-0.36	0	0	0	0	0	0
2/1/2025 14:10	13704	SCHN_T2	1	1	0	0.5	0	-0.5	-0.91	-0.93	0	0	0	0	0	0
2/1/2025 14:11	41902	REED_T1	0	3	3	0	0	0	0.99	0.95	0	0	0	0	0	0
2/1/2025 14:12	10805	CHHI_T2	1	1	0	7.7	7.6	-0.1	-1.26	-1.27	1	1	0	600	600	0
2/1/2025 14:18	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 14:18	46803	HEPB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/1/2025 14:18	46801	HEPB_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
2/1/2025 14:20	13303	ORVI_T1	0	1	1	0	0.1	0.1	0.55	0.56	0	0	0	0	0	0
2/1/2025 14:20	52004	LING_T2	2	2	0	5.2	5.2	0	0.22	0.21	0	0	0	0	0	0
2/1/2025 14:22	13303	ORVI_T1	0	1	1	0	0.1	0.1	0.56	0.57	0	0	0	0	0	0
2/1/2025 14:23	65801	RTWN_T1	0	0	0	0	0	0	-0.7	-0.68	1	1	0	300	300	0
2/1/2025 14:34	46803	HEPB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 14:34	46801	HEPB_T2	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/1/2025 14:34	52004	LING_T2	2	2	0	5.2	5.2	0	0	0	0	0	0	0	0	0
2/1/2025 14:34	52002	LING_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
2/1/2025 14:39	55105	WERT_T1	0	0	0	0	0	0	-0.74	-0.77	1	1	0	900	900	0
2/1/2025 14:44	67605	WARW_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/1/2025 14:44	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
2/1/2025 14:44	42701	AUGU_T1	1	2	1	1.1	0.7	-0.4	0	0	2	2	0	1800	1800	0
2/1/2025 14:45	60801	BUCK_T1	24	20	-4	0.22	0.22	0	-0.21	-0.22	0	0	0	0	0	0
2/1/2025 14:45	60803	BUCK_T1	11	12	1	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
2/1/2025 14:46	46203	DANV_T2	0	0	0	0	0	0	-3.94	-3.9	0	0	0	0	0	0
2/1/2025 14:49	58201	NEWV_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/1/2025 14:49	58202	NEWV_T1	7	4	-3	0.3	0.28	-0.02	-1.22	-1.25	0	0	0	0	0	0
2/1/2025 14:52	58202	NEWV_T1	7	4	-3	0.3	0.28	-0.02	-0.83	-0.78	0	0	0	0	0	0
2/1/2025 14:52	58201	NEWV_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/1/2025 14:59	23502	GEOR_T1	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
2/1/2025 14:59	54502	ENOL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/1/2025 14:59	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/1/2025 14:59	54501	ENOL_T2	0	0	0	0	0	0	-0.55	-0.5	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/1/2025 15:00	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 15:00	54505	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/1/2025 15:00	42701	AUGU_T1	1	2	1	1.2	0.6	-0.6	0	0	2	2	0	1800	1800	0
2/1/2025 15:00	54502	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/1/2025 15:01	53901	HALI_T2	0	0	0	0	0	0	-0.92	-0.92	0	0	0	0	0	0
2/1/2025 15:01	53903	HALI_T2	3	3	0	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
2/1/2025 15:01	53902	HALI_T2	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
2/1/2025 15:03	54501	ENOL_T2	0	0	0	0	0	0	-0.55	-0.5	1	1	0	600	600	0
2/1/2025 15:03	54502	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/1/2025 15:03	54505	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/1/2025 15:53	40602	PIGR_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
2/1/2025 16:12	44902	SCOT_T2	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
2/1/2025 16:24	45602	WOOL_T1	0	1	1	0	0	0	0.52	0.56	0	0	0	0	0	0
2/1/2025 16:31	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 16:32	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 16:36	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 16:36	24201	PROV_T3	6	6	0	3.73	4.16	0.43	-1.32	-1.32	1	1	0	1200	1200	0
2/1/2025 16:36	24204	PROV_T3	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
2/1/2025 16:41	24201	PROV_T3	6	6	0	3.73	4.16	0.43	-1.32	-1.32	1	1	0	1200	1200	0
2/1/2025 16:41	24204	PROV_T3	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
2/1/2025 16:52	13704	SCHN_T2	0	0	0	0	0	0	-0.85	-0.83	0	0	0	0	0	0
2/1/2025 16:54	13302	ORVI_T2	253	51	-202	0.31	0.14	-0.17	0	0	0	0	0	0	0	0
2/1/2025 16:54	55101	WERT_T1	1	0	-1	0.1	0	-0.1	-1.36	-1.37	2	2	0	1500	1500	0
2/1/2025 16:57	55101	WERT_T1	1	0	-1	0.1	0	-0.1	-1.36	-1.37	2	2	0	1500	1500	0
2/1/2025 17:10	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
2/1/2025 19:11	59402	RFLD_T2	0	0	0	0	0	0	-0.87	-0.85	1	1	0	450	450	0
2/1/2025 19:13	66505	SMAN_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
2/1/2025 19:13	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:19	26402	INOR_T1	4	13	9	0.73	0.1	-0.63	-2.07	-2.14	2	2	0	900	900	0
2/1/2025 19:19	26401	INOR_T1	126	148	22	1.95	1.77	-0.18	0	0	0	0	0	0	0	0
2/1/2025 19:20	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:20	20402	ASHF_T2	1	3	2	0.3	0.3	0	0	0	0	0	0	0	0	0
2/1/2025 19:20	20401	ASHF_T2	0	0	0	0	0	0	-0.79	-0.79	1	1	0	600	600	0
2/1/2025 19:21	26402	INOR_T1	4	13	9	0.73	0.1	-0.63	0	0	0	0	0	0	0	0
2/1/2025 19:21	26401	INOR_T1	126	148	22	1.95	1.77	-0.18	0.87	0.84	0	0	0	0	0	0
2/1/2025 19:23	44901	SCOT_T2	0	0	0	0	0	0	-1.14	-1.14	0	0	0	0	0	0
2/1/2025 19:24	13905	SEID_T1	0	0	0	0	0	0	-0.86	-0.85	1	1	0	1200	1200	0
2/1/2025 19:24	13904	SEID_T1	54	41	-13	0.79	0.64	-0.15	0	0	0	0	0	0	0	0
2/1/2025 19:24	61001	DONV_T1	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
2/1/2025 19:25	52002	LING_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
2/1/2025 19:25	64204	KINZ_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
2/1/2025 19:25	52004	LING_T2	3	2	-1	2.57	3.7	1.13	0.18	0.19	0	0	0	0	0	0
2/1/2025 19:25	55001	NEWP_T1	0	0	0	0	0	0	-0.85	-0.86	1	1	0	600	600	0
2/1/2025 19:25	40101	HUNT_T2	201	224	23	0.88	0.8	-0.08	-0.73	-0.72	0	0	0	0	0	0
2/1/2025 19:25	55002	NEWP_T1	4	3	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/1/2025 19:25	64201	KINZ_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/1/2025 19:25	64203	KINZ_T1	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
2/1/2025 19:26	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/1/2025 19:26	29402	BELT_T1	58	32	-26	0.66	0.7	0.04	0	0	0	0	0	0	0	0
2/1/2025 19:26	10805	CHHI_T2	6	1	-5	1.87	8.8	6.93	-0.99	-1.01	1	1	0	600	600	0
2/1/2025 19:26	24204	PROV_T3	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
2/1/2025 19:26	24205	PROV_T3	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
2/1/2025 19:26	24201	PROV_T3	5	10	5	4.16	4.24	0.08	-1.28	-1.27	1	1	0	1200	1200	0
2/1/2025 19:26	61701	ELIZ_T1	1	1	0	5	5.1	0.1	-0.43	-0.43	0	0	0	0	0	0
2/1/2025 19:26	40201	BEGA_T2	7	7	0	1.06	0.53	-0.53	0	0	0	0	0	0	0	0
2/1/2025 19:26	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:26	13704	SCHN_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
2/1/2025 19:27	29402	BELT_T1	58	32	-26	0.66	0.7	0.04	0	0	0	0	0	0	0	0
2/1/2025 19:27	26401	INOR_T1	126	148	22	1.95	1.77	-0.18	0	0	0	0	0	0	0	0
2/1/2025 19:27	62106	ELAN_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
2/1/2025 19:27	26402	INOR_T1	4	13	9	0.73	0.1	-0.63	0	0	0	0	0	0	0	0
2/1/2025 19:28	24102	EHAZ_T1	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
2/1/2025 19:28	24105	EHAZ_T1	16	16	0	1.89	6.35	4.46	0	0	0	0	0	0	0	0
2/1/2025 19:28	11901	ETEX_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
2/1/2025 19:28	17401	FOHI_T1	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
2/1/2025 19:28	24101	EHAZ_T1	42	43	1	1.28	1.39	0.11	0	0	0	0	0	0	0	0
2/1/2025 19:28	13303	ORVI_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
2/1/2025 19:28	24103	EHAZ_T1	0	0	0	0	0	0	-1.44	-1.47	0	0	0	0	0	0
2/1/2025 19:28	27901	BCRK_T1	3	3	0	2.7	2.6	-0.1	0	0	0	0	0	0	0	0
2/1/2025 19:29	26401	INOR_T1	126	148	22	1.95	1.77	-0.18	0	0	0	0	0	0	0	0
2/1/2025 19:29	63501	HEID_TBK1-2	51	30	-21	0.35	0.21	-0.14	-0.47	-0.54	1	1	0	900	900	0
2/1/2025 19:29	65802	RTWN_T2	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
2/1/2025 19:29	26402	INOR_T1	4	13	9	0.73	0.1	-0.63	-2.14	-2.05	2	2	0	900	900	0
2/1/2025 19:29	40101	HUNT_T2	201	224	23	0.88	0.8	-0.08	-0.73	-0.72	0	0	0	0	0	0
2/1/2025 19:29	60801	BUCK_T1	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
2/1/2025 19:30	11904	ETEX_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
2/1/2025 19:30	13102	NHAM_T2	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
2/1/2025 19:30	63501	HEID_TBK1-2	29	44	15	0.21	0.31	0.1	-0.93	-1.09	2	2	0	1800	1800	0
2/1/2025 19:30	52401	GRPA_T2	1	0	-1	3.1	0	-3.1	0	0	0	0	0	0	0	0
2/1/2025 19:30	60201	ATGL_T2	0	3	3	0	0.13	0.13	0.65	-0.31	0	0	0	0	0	0
2/1/2025 19:30	52404	GRPA_T2	1	0	-1	0.4	0	-0.4	-0.25	-0.22	0	0	0	0	0	0
2/1/2025 19:30	13103	NHAM_T2	0	0	0	0	0	0	-1.51	-1.51	1	1	0	600	600	0
2/1/2025 19:30	40201	BEGA_T2	6	6	0	0.77	1.4	0.63	0	0	0	0	0	0	0	0
2/1/2025 19:30	52402	GRPA_T2	3	3	0	0.33	0.35	0.02	0	0	0	0	0	0	0	0
2/1/2025 19:30	52403	GRPA_T2	2	13	11	0.25	0.28	0.03	-1.04	-1.03	0	0	0	0	0	0
2/1/2025 19:30	13105	NHAM_T2	23	19	-4	1.06	0.38	-0.68	0	0	0	0	0	0	0	0
2/1/2025 19:30	10801	CHHI_T1	1	4	3	0.1	0.63	0.53	-1.96	-1.95	3	3	0	2100	2100	0
2/1/2025 19:30	16103	BING_T2	0	0	0	0	0	0	-2.07	-2.1	2	2	0	1500	1500	0
2/1/2025 19:30	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:30	54505	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/1/2025 19:30	44201	PCIN_T1	0	29	29	0	0.14	0.14	-1.6	-1.75	1	1	0	1200	1200	0
2/1/2025 19:30	54504	ENOL_T2	0	0	0	0	0	0	-0.99	-0.99	1	1	0	600	600	0
2/1/2025 19:30	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
2/1/2025 19:31	63501	HEID_TBK1-2	29	44	15	0.21	0.31	0.1	0	0	0	0	0	0	0	0
2/1/2025 19:31	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:31	55001	NEWP_T1	0	0	0	0	0	0	-0.85	-0.86	1	1	0	600	600	0
2/1/2025 19:31	45302	WBER_T2	1	11	10	0.3	0.55	0.25	0.58	0.58	0	0	0	0	0	0
2/1/2025 19:31	45501	DERR_T2	0	1	1	0	0	0	0.19	0.22	1	1	0	600	600	0
2/1/2025 19:31	55002	NEWP_T1	3	2	-1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
2/1/2025 19:31	61304	EARL_T1	0	0	0	0	0	0	-0.87	-0.9	1	1	0	600	600	0
2/1/2025 19:31	54505	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/1/2025 19:31	46203	DANV_T2	7	6	-1	0.54	0.35	-0.19	-2.62	-2.61	0	0	0	0	0	0
2/1/2025 19:31	60502	NMAN_T2	0	0	0	0	0	0	-0.51	-0.48	0	0	0	0	0	0
2/1/2025 19:31	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:31	45502	DERR_T2	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/1/2025 19:31	41801	GOCI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:31	54501	ENOL_T2	0	0	0	0	0	0	-0.5	-0.49	1	1	0	600	600	0
2/1/2025 19:32	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:32	65804	RTWN_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/1/2025 19:32	45502	DERR_T2	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/1/2025 19:32	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:32	13303	ORVI_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
2/1/2025 19:32	60803	BUCK_T1	0	0	0	0	0	0	-0.46	-0.45	1	1	0	600	600	0
2/1/2025 19:32	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:32	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:32	52002	LING_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/1/2025 19:32	16103	BING_T2	0	0	0	0	0	0	-2.07	-2.1	2	2	0	1500	1500	0
2/1/2025 19:32	52004	LING_T2	2	2	0	3.7	3.7	0	0.18	0.19	0	0	0	0	0	0
2/1/2025 19:32	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:32	65801	RTWN_T1	0	0	0	0	0	0	-0.66	-0.61	1	1	0	300	300	0
2/1/2025 19:32	45501	DERR_T2	0	1	1	0	0	0	0.19	0.22	1	1	0	600	600	0
2/1/2025 19:33	45602	WOOL_T1	0	2	2	0	0	0	0	0.05	0	0	0	0	0	0
2/1/2025 19:33	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
2/1/2025 19:33	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:33	60201	ATGL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
2/1/2025 19:33	52402	GRPA_T2	3	3	0	0.33	0.35	0.02	0	0	0	0	0	0	0	0
2/1/2025 19:33	52403	GRPA_T2	2	13	11	0.25	0.28	0.03	0	0	0	0	0	0	0	0
2/1/2025 19:33	44505	HAMI_T2	0	0	0	0	0	0	-0.54	-0.5	0	0	0	0	0	0
2/1/2025 19:33	52401	GRPA_T2	1	0	-1	3.1	0	-3.1	0	0	0	0	0	0	0	0
2/1/2025 19:33	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:33	62106	ELAN_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
2/1/2025 19:33	65202	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/1/2025 19:33	40702	FFLD_T1	0	0	0	0	0	0	-2.03	-2.05	1	1	0	1200	1200	0
2/1/2025 19:33	65205	PRIN_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
2/1/2025 19:33	61302	EARL_T1	0	0	0	0	0	0	0.09	0.12	1	1	0	1200	1200	0
2/1/2025 19:33	44502	HAMI_T2	1	2	1	1.8	2.8	1	0	0	0	0	0	0	0	0
2/1/2025 19:33	52404	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/1/2025 19:34	60201	ATGL_T2	0	3	3	0	0.13	0.13	0.65	-0.31	0	0	0	0	0	0
2/1/2025 19:34	67702	WERN_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
2/1/2025 19:34	44902	SCOT_T2	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
2/1/2025 19:34	10801	CHHI_T1	1	4	3	0.1	0.63	0.53	-3.92	-3.9	6	6	0	4200	4200	0
2/1/2025 19:34	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:34	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:34	52401	GRPA_T2	1	0	-1	3.1	0	-3.1	-0.73	-0.73	0	0	0	0	0	0
2/1/2025 19:34	60803	BUCK_T1	0	0	0	0	0	0	-0.46	-0.45	1	1	0	600	600	0
2/1/2025 19:34	42701	AUGU_T1	0	1	1	0	0.2	0.2	0	0	2	2	0	1800	1800	0
2/1/2025 19:34	11904	ETEX_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
2/1/2025 19:34	11202	ELHE_T2	0	0	0	0	0	0	0.44	0.46	1	1	0	1200	1200	0
2/1/2025 19:34	52403	GRPA_T2	2	13	11	0.25	0.28	0.03	0	0	0	0	0	0	0	0
2/1/2025 19:34	52404	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/1/2025 19:34	52402	GRPA_T2	3	3	0	0.33	0.35	0.02	0	0	0	0	0	0	0	0
2/1/2025 19:34	60502	NMAN_T2	0	0	0	0	0	0	-0.51	-0.48	0	0	0	0	0	0
2/1/2025 19:34	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:34	53901	HALI_T2	1	1	0	0.7	0.2	-0.5	-1.25	-1.28	0	0	0	0	0	0
2/1/2025 19:34	44502	HAMI_T2	1	2	1	1.8	2.8	1	0	0	0	0	0	0	0	0
2/1/2025 19:34	47802	MOCA_T2	1	1	0	0.9	0.6	-0.3	-0.78	-0.8	0	0	0	0	0	0
2/1/2025 19:34	60801	BUCK_T1	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
2/1/2025 19:34	46203	DANV_T2	7	6	-1	0.54	0.35	-0.19	-5.24	-5.22	0	0	0	0	0	0
2/1/2025 19:34	53903	HALI_T2	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
2/1/2025 19:34	66505	SMAN_T2	3	3	0	0.5	0.87	0.37	-0.42	-0.47	1	1	0	900	900	0
2/1/2025 19:34	44505	HAMI_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
2/1/2025 19:34	62105	ELAN_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
2/1/2025 19:34	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/1/2025 19:34	53902	HALI_T2	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
2/1/2025 19:34	40101	HUNT_T2	196	225	29	0.86	0.8	-0.06	0	0	0	0	0	0	0	0
2/1/2025 19:34	61304	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:35	52002	LING_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/1/2025 19:35	45501	DERR_T2	0	1	1	0	0	0	0.19	0.22	1	1	0	600	600	0
2/1/2025 19:35	45502	DERR_T2	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/1/2025 19:35	52004	LING_T2	2	2	0	3.7	3.7	0	0.18	0.19	0	0	0	0	0	0
2/1/2025 19:35	60803	BUCK_T1	0	0	0	0	0	0	-0.46	-0.45	1	1	0	600	600	0
2/1/2025 19:35	63501	HEID_TBK1-2	29	44	15	0.21	0.31	0.1	-0.47	-0.54	1	1	0	900	900	0
2/1/2025 19:35	46803	HEPB_T2	0	0	0	0	0	0	0.59	0.54	0	0	0	0	0	0
2/1/2025 19:35	46802	HEPB_T1	0	1	1	0	0.2	0.2	-1.14	-1.25	0	0	0	0	0	0
2/1/2025 19:35	46004	BERW_T2	8	8	0	0.58	0.23	-0.35	-0.69	-0.69	0	0	0	0	0	0
2/1/2025 19:35	60801	BUCK_T1	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
2/1/2025 19:35	57205	ROSS_T1	0	0	0	0	0	0	-0.85	-0.85	1	1	0	900	900	0
2/1/2025 19:35	42601	TUSC_T1	40	75	35	0.77	0.84	0.07	-0.43	-0.38	2	2	0	1800	1800	0
2/1/2025 19:36	14402	SSLA_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:36	13302	ORVI_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/1/2025 19:36	14401	SSLA_T1	3	3	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
2/1/2025 19:36	10805	CHHI_T2	1	1	0	8.9	8.6	-0.3	-1.01	-1.38	1	1	0	600	600	0
2/1/2025 19:36	46004	BERW_T2	8	8	0	0.58	0.23	-0.35	-0.69	-0.69	0	0	0	0	0	0
2/1/2025 19:36	52002	LING_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/1/2025 19:36	20603	GRWO_T2	2	10	8	0.15	0	-0.15	0.56	0.52	0	0	0	0	0	0
2/1/2025 19:36	52004	LING_T2	2	2	0	3.7	3.7	0	0	0	0	0	0	0	0	0
2/1/2025 19:36	52001	LING_T1	0	0	0	0	0	0	-0.93	-0.95	0	0	0	0	0	0
2/1/2025 19:36	60803	BUCK_T1	0	0	0	0	0	0	-0.46	-0.45	1	1	0	600	600	0
2/1/2025 19:36	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:36	14403	SSLA_T1	0	2	2	0	0	0	0.34	0.29	1	1	0	600	600	0
2/1/2025 19:36	44902	SCOT_T2	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
2/1/2025 19:36	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:36	13303	ORVI_T1	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
2/1/2025 19:36	20601	GRWO_T2	1	2	1	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/1/2025 19:36	66502	SMAN_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
2/1/2025 19:36	66505	SMAN_T2	3	3	0	0.5	0.87	0.37	0	0	0	0	0	0	0	0
2/1/2025 19:37	60801	BUCK_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
2/1/2025 19:37	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.03	1	1	0	600	600	0
2/1/2025 19:37	45501	DERR_T2	0	1	1	0	0	0	0.44	0.4	2	2	0	1200	1200	0
2/1/2025 19:37	64101	REFR_T1	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
2/1/2025 19:37	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:37	23502	GEOR_T1	0	0	0	0	0	0	0	-0.24	0	0	0	0	0	0
2/1/2025 19:37	46203	DANV_T2	7	6	-1	0.54	0.35	-0.19	-2.61	-2.62	0	0	0	0	0	0
2/1/2025 19:37	58402	MORO_T1	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
2/1/2025 19:37	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:37	45502	DERR_T2	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/1/2025 19:37	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:37	20402	ASHF_T2	3	3	0	0.43	0.25	-0.18	0	0	0	0	0	0	0	0
2/1/2025 19:37	20403	ASHF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:37	41902	REED_T1	6	10	4	0.27	0.26	-0.01	0.16	0.11	1	1	0	900	900	0
2/1/2025 19:37	13501	MCMI_T1	4	4	0	1.3	1.23	-0.07	0	0	0	0	0	0	0	0
2/1/2025 19:37	46101	MACI_T2	0	0	0	0	0	0	-0.61	-0.61	1	1	0	1200	1200	0
2/1/2025 19:38	52403	GRPA_T2	2	13	11	0.25	0.28	0.03	-1.03	-1.08	0	0	0	0	0	0
2/1/2025 19:38	67402	WAKE_T2	0	0	0	0	0	0	-0.36	-0.36	1	1	0	600	600	0
2/1/2025 19:38	45501	DERR_T2	0	1	1	0	0	0	0.22	0.2	1	1	0	600	600	0
2/1/2025 19:38	41602	CLEV_T1	0	18	18	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:38	46801	HEPB_T2	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
2/1/2025 19:38	20402	ASHF_T2	3	3	0	0.43	0.25	-0.18	0	0	0	0	0	0	0	0
2/1/2025 19:38	63501	HEID_TBK1-2	29	44	15	0.21	0.31	0.1	-0.54	-0.49	1	1	0	900	900	0
2/1/2025 19:38	44502	HAMI_T2	1	2	1	1.8	2.8	1	0	0	0	0	0	0	0	0
2/1/2025 19:38	20403	ASHF_T2	0	0	0	0	0	0	0.67	0.65	0	0	0	0	0	0
2/1/2025 19:38	13704	SCHN_T2	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
2/1/2025 19:38	52402	GRPA_T2	3	3	0	0.33	0.35	0.02	0	0	0	0	0	0	0	0
2/1/2025 19:38	64101	REFR_T1	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
2/1/2025 19:38	45502	DERR_T2	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/1/2025 19:38	52002	LING_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/1/2025 19:38	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:38	52404	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/1/2025 19:38	46803	HEPB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:38	55002	NEWP_T1	3	2	-1	0.5	0.55	0.05	-0.18	-0.18	0	0	0	0	0	0
2/1/2025 19:38	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:38	52401	GRPA_T2	1	0	-1	3.1	0	-3.1	0	0	0	0	0	0	0	0
2/1/2025 19:38	52004	LING_T2	2	2	0	3.7	3.7	0	0	0	0	0	0	0	0	0
2/1/2025 19:39	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:39	52403	GRPA_T2	2	13	11	0.25	0.28	0.03	-1.03	-1.08	0	0	0	0	0	0
2/1/2025 19:39	63501	HEID_TBK1-2	29	44	15	0.21	0.31	0.1	-0.54	-0.49	1	1	0	900	900	0
2/1/2025 19:39	54501	ENOL_T2	0	0	0	0	0	0	-0.49	-0.46	1	1	0	600	600	0
2/1/2025 19:39	44301	BEAV_T2	5	4	-1	0.28	0.33	0.05	-0.87	-0.8	1	1	0	600	600	0
2/1/2025 19:39	54505	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/1/2025 19:39	58102	NEKI_T1	1	1	0	0.6	0.5	-0.1	-1.08	-1.16	1	1	0	1200	1200	0
2/1/2025 19:39	52004	LING_T2	2	2	0	3.7	3.7	0	0	0	0	0	0	0	0	0
2/1/2025 19:39	64101	REFR_T1	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
2/1/2025 19:39	67603	WARW_T1	0	0	0	0	0	0	-0.5	-0.54	0	0	0	0	0	0
2/1/2025 19:39	52401	GRPA_T2	1	0	-1	3.1	0	-3.1	0	0	0	0	0	0	0	0
2/1/2025 19:39	52002	LING_T2	1	1	0	0.7	0	-0.7	-0.06	-0.04	0	0	0	0	0	0
2/1/2025 19:39	40602	PIGR_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
2/1/2025 19:39	52404	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/1/2025 19:39	61001	DONV_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
2/1/2025 19:39	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/1/2025 19:39	67605	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/1/2025 19:39	52402	GRPA_T2	3	3	0	0.33	0.35	0.02	0	0	0	0	0	0	0	0
2/1/2025 19:40	64201	KINZ_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/1/2025 19:40	52404	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/1/2025 19:40	64204	KINZ_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/1/2025 19:40	64202	KINZ_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
2/1/2025 19:40	41902	REED_T1	6	10	4	0.27	0.26	-0.01	0.16	0.11	1	1	0	900	900	0
2/1/2025 19:40	60803	BUCK_T1	0	0	0	0	0	0	-0.45	-0.44	1	1	0	600	600	0
2/1/2025 19:40	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.03	1	1	0	600	600	0
2/1/2025 19:40	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:40	57002	WHHI_T2	0	0	0	0	0	0	-2.54	-2.52	1	1	0	1200	1200	0
2/1/2025 19:40	13704	SCHN_T2	0	0	0	0	0	0	-0.74	-0.78	0	0	0	0	0	0
2/1/2025 19:40	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:40	61302	EARL_T1	0	0	0	0	0	0	0.12	0.1	1	1	0	1200	1200	0
2/1/2025 19:40	41801	GOCI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:40	40701	FELD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:40	52401	GRPA_T2	1	0	-1	3.1	0	-3.1	-0.73	-0.76	0	0	0	0	0	0
2/1/2025 19:40	61803	EELI_T2	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
2/1/2025 19:40	58402	MORO_T1	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
2/1/2025 19:40	44201	POIN_T1	0	29	29	0	0.14	0.14	-1.75	-1.99	1	1	0	1200	1200	0
2/1/2025 19:40	20603	GRWO_T2	2	10	8	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/1/2025 19:40	20601	GRWO_T2	1	2	1	0.8	0.7	-0.1	-0.05	-0.07	0	0	0	0	0	0
2/1/2025 19:40	65802	RTWN_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
2/1/2025 19:40	52403	GRPA_T2	2	13	11	0.25	0.28	0.03	0	0	0	0	0	0	0	0
2/1/2025 19:40	52402	GRPA_T2	3	3	0	0.33	0.35	0.02	0	0	0	0	0	0	0	0
2/1/2025 19:41	58201	NEWV_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
2/1/2025 19:41	44901	SCOT_T2	0	0	0	0	0	0	-0.57	-0.53	0	0	0	0	0	0
2/1/2025 19:41	58202	NEWV_T1	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
2/1/2025 19:41	65503	MOJO_T2	0	0	0	0	0	0	-0.22	-0.14	0	0	0	0	0	0
2/1/2025 19:41	40101	HUNT_T2	196	225	29	0.86	0.8	-0.06	-0.72	-0.71	0	0	0	0	0	0
2/1/2025 19:42	58402	MORO_T1	4	0	-4	0.13	0	-0.13	-0.59	-0.57	3	3	0	1950	1950	0
2/1/2025 19:42	63804	HEMP_T1	1	1	0	6.5	6.6	0.1	0.86	0.84	0	0	0	0	0	0
2/1/2025 19:42	63501	HEID_TBK1-2	29	44	15	0.21	0.31	0.1	-0.54	-0.49	1	1	0	900	900	0
2/1/2025 19:42	55101	WERT_T1	0	0	0	0	0	0	-1.33	-1.33	2	2	0	1500	1500	0
2/1/2025 19:42	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.03	1	1	0	600	600	0
2/1/2025 19:42	67402	WAKE_T2	0	0	0	0	0	0	-0.36	-0.36	1	1	0	600	600	0
2/1/2025 19:43	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.42	1	1	0	900	900	0
2/1/2025 19:43	54505	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/1/2025 19:43	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:43	66503	SMAN_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
2/1/2025 19:43	41902	REED_T1	6	10	4	0.27	0.26	-0.01	0.16	0.11	1	1	0	900	900	0
2/1/2025 19:43	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:43	66505	SMAN_T2	3	3	0	0.5	0.87	0.37	0	0	0	0	0	0	0	0
2/1/2025 19:43	53502	EVIL_T2	10	0	-10	1.03	0	-1.03	0.18	0.17	1	1	0	600	600	0
2/1/2025 19:43	53501	EVIL_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
2/1/2025 19:43	58202	NEWV_T1	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
2/1/2025 19:43	58201	NEWV_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
2/1/2025 19:44	52402	GRPA_T2	3	3	0	0.33	0.35	0.02	0	0	0	0	0	0	0	0
2/1/2025 19:44	41902	REED_T1	6	10	4	0.27	0.26	-0.01	0.16	0.11	1	1	0	900	900	0
2/1/2025 19:44	40201	BEGA_T2	6	0	0	0.77	1.4	0.63	0	0	0	0	0	0	0	0
2/1/2025 19:44	52401	GRPA_T2	1	0	-1	3.1	0	-3.1	0	0	0	0	0	0	0	0
2/1/2025 19:44	52403	GRPA_T2	2	13	11	0.25	0.28	0.03	-1.03	-1.08	0	0	0	0	0	0
2/1/2025 19:44	53501	EVIL_T2	1	2	1	0.1	0.45	0.35	-0.66	-0.65	0	0	0	0	0	0
2/1/2025 19:44	52404	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/1/2025 19:44	53502	EVIL_T2	10	0	-10	1.03	0	-1.03	0	0	0	0	0	0	0	0
2/1/2025 19:44	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:45	44905	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:45	55105	WERT_T1	0	1	1	0	0	0	-0.44	-0.42	1	1	0	900	900	0
2/1/2025 19:45	64201	KINZ_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/1/2025 19:45	55002	NEWP_T1	2	3	1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
2/1/2025 19:45	55101	WERT_T1	0	0	0	0	0	0	-1.33	-1.33	2	2	0	1500	1500	0
2/1/2025 19:45	64203	KINZ_T1	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
2/1/2025 19:45	64204	KINZ_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/1/2025 19:45	40201	BEGA_T2	4	6	2	0.53	0.95	0.42	0	0	0	0	0	0	0	0
2/1/2025 19:45	55001	NEWP_T1	0	0	0	0	0	0	-0.86	-0.84	1	1	0	600	600	0
2/1/2025 19:46	58201	NEWV_T1	1	1	0	1.7	1	-0.7	0	0	0	0	0	0	0	0
2/1/2025 19:46	58202	NEWV_T1	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
2/1/2025 19:46	40201	BEGA_T2	4	6	2	0.53	0.95	0.42	0	0	0	0	0	0	0	0
2/1/2025 19:48	61304	EARL_T1	0	0	0	0	0	0	-0.9	-0.91	1	1	0	600	600	0
2/1/2025 19:48	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:48	41602	CLEV_T1	18	1	-17	0.37	0	-0.37	0	0	0	0	0	0	0	0
2/1/2025 19:48	40201	BEGA_T2	4	6	2	0.53	0.95	0.42	0	0	0	0	0	0	0	0
2/1/2025 19:48	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:48	44801	EDAN_T2	1	3	2	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
2/1/2025 19:49	52403	GRPA_T2	5	13	8	0.34	0.46	0.12	0	0	0	0	0	0	0	0
2/1/2025 19:49	44501	HAMI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/1/2025 19:49	44502	HAMI_T2	1	2	1	2.4	2.8	0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/1/2025 19:49	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:49	52402	GRPA_T2	3	14	11	0.77	0.35	-0.42	0	0	0	0	0	0	0	0
2/1/2025 19:49	52401	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 19:49	41602	CLEV_T1	18	1	-17	0.37	0	-0.37	0	0	0	0	0	0	0	0
2/1/2025 19:49	44505	HAMI_T2	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
2/1/2025 19:56	42701	AUGU_T1	0	1	1	0	0.2	0.2	0	0	2	2	0	1800	1800	0
2/1/2025 19:56	13302	ORVI_T2	0	0	0	0	0	0	1.03	1.13	0	0	0	0	0	0
2/1/2025 20:03	44301	BEAV_T2	4	0	-4	0.63	0	-0.63	0	0	0	0	0	0	0	0
2/1/2025 20:07	44301	BEAV_T2	4	0	-4	0.63	0	-0.63	0	0	0	0	0	0	0	0
2/1/2025 20:15	64201	KINZ_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
2/1/2025 20:15	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/1/2025 20:15	64204	KINZ_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/1/2025 21:14	52403	GRPA_T2	3	1	-2	0.57	0	-0.57	-1.15	-1.18	0	0	0	0	0	0
2/1/2025 21:14	52402	GRPA_T2	19	5	-14	0.41	0.7	0.29	0	0	0	0	0	0	0	0
2/2/2025 0:06	58202	NEWV_T1	2	3	1	0.25	0.33	0.08	-0.58	-0.58	0	0	0	0	0	0
2/2/2025 7:51	67803	WLAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 7:51	67804	WLAN_T1	10	10	0	0.38	0.26	-0.12	0	0	0	0	0	0	0	0
2/2/2025 7:55	64603	LEOL_T1	0	0	0	0	0	0	-0.34	-0.4	0	0	0	0	0	0
2/2/2025 7:55	55101	WERT_T1	0	0	0	0	0	0	-1.21	-1.13	2	2	0	1500	1500	0
2/2/2025 7:55	65001	NEFF_T2	0	0	0	0	0	0	-0.68	-0.61	0	0	0	0	0	0
2/2/2025 7:56	14705	TREX_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
2/2/2025 7:56	14704	TREX_T1	1	1	0	9.1	9	-0.1	0	0	0	0	0	0	0	0
2/2/2025 7:56	57502	LAWN_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 7:56	57505	LAWN_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 7:57	63602	LETO_T1	0	0	0	0	0	0	-0.89	-0.91	1	1	0	600	600	0
2/2/2025 8:05	65901	SAKR_T2	1	1	0	9.3	9.2	-0.1	-1.68	-1.64	2	2	0	1500	1500	0
2/2/2025 8:08	45002	LIME_2	1	1	0	3.3	3.2	-0.1	-0.04	-0.03	0	0	0	0	0	0
2/2/2025 8:08	45001	LIME_2	4	2	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
2/2/2025 8:08	45003	LIME_2	87	104	17	0.65	0.77	0.12	0	0	0	0	0	0	0	0
2/2/2025 8:09	26402	INOR_T1	0	0	0	0	0	0	-1.9	-1.91	1	1	0	600	600	0
2/2/2025 8:09	26401	INOR_T1	12	29	17	1.23	2.88	1.65	0	0	0	0	0	0	0	0
2/2/2025 8:10	46001	BERW_T1	3	2	-1	0.13	0	-0.13	0.73	0.76	0	0	0	0	0	0
2/2/2025 8:16	67503	WEWI_T2	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
2/2/2025 8:16	67502	WEWI_T2	2	2	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
2/2/2025 8:18	64902	MILL_T2	0	0	0	0	0	0	-1.16	-1.14	1	1	0	900	900	0
2/2/2025 8:18	64903	MILL_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
2/2/2025 8:23	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 8:27	60104	COCA_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	600	600	0
2/2/2025 8:32	15203	SFAR_T2	1	1	0	1	0.9	-0.1	-0.53	-0.49	0	0	0	0	0	0
2/2/2025 8:33	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/2/2025 8:33	29402	BELT_T1	5	141	136	2.28	0.63	-1.65	0	0	0	0	0	0	0	0
2/2/2025 8:35	42902	MIDD_T2	22	1	-21	0.51	0	-0.51	0	0	0	0	0	0	0	0
2/2/2025 8:35	42903	MIDD_T2	2	2	0	0.85	1.25	0.4	-1.16	-1.19	1	1	0	1200	1200	0
2/2/2025 8:36	43104	SMIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/2/2025 8:36	43103	SMIL_T2	0	0	0	0	0	0	-2.96	-2.1	0	0	0	0	0	0
2/2/2025 8:36	43101	SMIL_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/2/2025 8:36	67303	WYOM_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
2/2/2025 8:41	64401	LAND_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	600	600	0
2/2/2025 8:41	40802	EXCH_T2	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
2/2/2025 8:42	64605	LEOL_T1	0	0	0	0	0	0	-0.37	-0.39	1	1	0	300	300	0
2/2/2025 8:43	43104	SMIL_T2	0	1	1	0	0.2	0.2	-0.56	-0.59	1	1	0	300	300	0
2/2/2025 8:43	43101	SMIL_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/2/2025 8:47	51702	OBER_T1	2	2	0	1.85	1.9	0.05	-0.88	-0.91	1	1	0	600	600	0
2/2/2025 8:48	14702	TREX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 8:48	14701	TREX_T2	2	2	0	1.55	0.65	-0.9	0	0	0	0	0	0	0	0
2/2/2025 8:51	61701	ELIZ_T1	1	1	0	5.3	5.4	0.1	-0.36	-0.38	0	0	0	0	0	0
2/2/2025 8:53	40802	EXCH_T2	0	0	0	0	0	0	-0.84	-0.85	0	0	0	0	0	0
2/2/2025 8:54	15402	WALL_T1	0	1	1	0	3	3	0	0	0	0	0	0	0	0
2/2/2025 8:54	15405	WALL_T1	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
2/2/2025 8:55	16202	POFA_T1	4	6	2	0.48	0.28	-0.2	0	0	0	0	0	0	0	0
2/2/2025 8:57	51903	COPA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 8:57	51901	COPA_T1	0	0	0	0	0	0	-0.71	-0.69	1	1	0	1200	1200	0
2/2/2025 8:59	15703	TANN_T2	1	1	0	8.1	8.1	0	0	0	0	0	0	0	0	0
2/2/2025 8:59	54506	ENOL_T2	0	0	0	0	0	0	-1.09	-1.13	0	0	0	0	0	0
2/2/2025 8:59	15702	TANN_T2	36	48	12	0.59	0.56	-0.03	-0.13	-0.14	0	0	0	0	0	0
2/2/2025 8:59	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 9:00	51903	COPA_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 9:00	13704	SOHN_T2	2	3	1	0.45	0.1	-0.35	-0.68	-0.63	0	0	0	0	0	0
2/2/2025 9:00	66505	SMAN_T2	0	0	0	0	0	0	-0.15	-0.25	1	1	0	900	900	0
2/2/2025 9:00	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 9:00	67702	WERN_T2	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
2/2/2025 9:00	51306	WIND_T2	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
2/2/2025 9:00	54506	ENOL_T2	0	0	0	0	0	0	-1.09	-1.13	0	0	0	0	0	0
2/2/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.45	0.41	0	0	0	0	0	0
2/2/2025 9:00	28102	TWLA_T2	111	109	-2	0.86	0.8	-0.06	0.34	0.35	0	0	0	0	0	0
2/2/2025 9:00	15703	TANN_T2	1	1	0	8.3	8.1	-0.2	0	0	0	0	0	0	0	0
2/2/2025 9:00	67703	WERN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/2/2025 9:00	51901	COPA_T1	0	0	0	0	0	0	-0.71	-0.69	1	1	0	1200	1200	0
2/2/2025 9:00	15702	TANN_T2	46	59	13	0.63	0.66	0.03	-0.13	-0.14	0	0	0	0	0	0
2/2/2025 9:00	66504	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/2/2025 9:00	51906	COPA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 9:02	57702	PAXT_T1	2	3	1	0.25	0	-0.25	-0.58	-0.55	0	0	0	0	0	0
2/2/2025 9:05	22002	BOHE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/2/2025 9:05	51004	NHAR_T1	2	2	0	5.95	5.8	-0.15	0	0	0	0	0	0	0	0
2/2/2025 9:05	16202	POFA_T1	5	6	1	0.5	0.24	-0.26	0	0	0	0	0	0	0	0
2/2/2025 9:05	22003	BOHE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 9:05	51002	NHAR_T1	2	1	-1	0.55	1	0.45	0	0	0	0	0	0	0	0
2/2/2025 9:05	51003	NHAR_T1	1	1	0	7.1	7.3	0.2	0	0	0	0	0	0	0	0
2/2/2025 9:06	67503	WEWI_T2	0	1	1	0	0	0	-0.38	-0.48	0	0	0	0	0	0
2/2/2025 9:06	53902	HALI_T2	1	1	0	4.8	5.1	0.3	0	0	0	0	0	0	0	0
2/2/2025 9:06	53903	HALI_T2	2	2	0	0.5	0.6	0.1	-0.24	-0.23	0	0	0	0	0	0
2/2/2025 9:07	67702	WERN_T2	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
2/2/2025 9:07	67703	WERN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/2/2025 9:09	67202	TEHI_T2	0	0	0	0	0	0	-0.8	-0.85	1	1	0	900	900	0
2/2/2025 9:10	52004	LING_T2	2	2	0	4.3	4.4	0.1	0.2	0.21	0	0	0	0	0	0
2/2/2025 9:10	12505	MITR_T2	0	0	0	0	0	0	0.32	0.36	0	0	0	0	0	0
2/2/2025 9:10	12502	MITR_T2	3	1	-2	2.3	6.5	4.2	0	0	0	0	0	0	0	0
2/2/2025 9:10	12501	MITR_T2	1	1	0	8.9	9	0.1	0	0	0	0	0	0	0	0
2/2/2025 9:11	53802	MBRG_T2	0	1	1	0	0	0	0.04	0	0	0	0	0	0	0
2/2/2025 9:11	45801	HEGI_T1	0	0	0	0	0	0	-0.32	-0.22	1	1	0	900	900	0
2/2/2025 9:11	46702	RENO_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
2/2/2025 9:12	64401	LAND_T1	0	0	0	0	0	0	-1.04	-1.05	1	1	0	600	600	0
2/2/2025 9:12	11302	EMMA_T1	0	0	0	0	0	0	0.11	0.1	1	1	0	600	600	0
2/2/2025 9:12	11301	EMMA_T1	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
2/2/2025 9:12	63305	GREE_T1	3	3	0	0.13	0.13	0	-2.41	-2.45	1	1	0	900	900	0
2/2/2025 9:13	40303	TAMA_T3	6	7	1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/2/2025 9:13	40302	TAMA_T3	25	30	5	0.64	0.64	0	0	0	0	0	0	0	0	0
2/2/2025 9:13	54603	SUMM_T2	0	0	0	0	0	0	-0.28	-0.28	1	1	0	900	900	0
2/2/2025 9:13	40301	TAMA_T3	3	3	0	0.3	0.55	0.25	2.1	2.05	2	2	0	1800	1800	0
2/2/2025 9:14	59101	WALK_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
2/2/2025 9:14	16302	ALPA_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
2/2/2025 9:15	64605	LEOL_T1	0	0	0	0	0	0	-0.38	-0.42	1	1	0	300	300	0
2/2/2025 9:16	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/2/2025 9:16	14704	TREX_T1	1	1	0	8.7	8.7	0	0	0	0	0	0	0	0	0
2/2/2025 9:16	14705	TREX_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
2/2/2025 9:16	53901	HALI_T2	0	0	0	0	0	0	-2.68	-2.67	0	0	0	0	0	0
2/2/2025 9:16	61103	BERK_T5	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
2/2/2025 9:16	53902	HALI_T2	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
2/2/2025 9:16	53903	HALI_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/2/2025 9:16	15204	SFAR_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
2/2/2025 9:16	15203	SFAR_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
2/2/2025 9:17	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 9:17	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/2/2025 9:17	61102	BERK_T5	0	0	0	0	0	0	0.83	0.79	1	1	0	300	300	0
2/2/2025 9:19	51702	OBER_T1	2	2	0	1.7	1.9	0.2	-0.88	-0.88	1	1	0	600	600	0
2/2/2025 9:20	53903	HALI_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/2/2025 9:20	53901	HALI_T2	0	0	0	0	0	0	-1.34	-1.33	0	0	0	0	0	0
2/2/2025 9:20	53902	HALI_T2	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
2/2/2025 9:23	67303	WYOM_T2	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
2/2/2025 9:30	42802	SELI_T1	0	0	0	0	0	0	-1.73	-1.75	0	0	0	0	0	0
2/2/2025 9:32	10801	CHHI_T1	5	8	3	0.72	0.8	0.08	-1.91	-1.94	3	3	0	2100	2100	0
2/2/2025 9:38	60701	BREC_T1	4	1	-3	0.73	1.3	0.57	-0.69	-0.69	2	2	0	1200	1200	0
2/2/2025 9:40	40802	EXCH_T2	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
2/2/2025 9:48	65904	SAKR_T2	0	0	0	0	0	0	-2.01	-1.98	3	3	0	1500	1500	0
2/2/2025 9:55	57505	LAWN_T3	0	0	0	0	0	0	0.76	0.81	0	0	0	0	0	0
2/2/2025 9:56	44802	EDAN_T2	0	0	0	0	0	0	-3.33	-3.37	1	1	0	1200	1200	0
2/2/2025 9:56	44801	EDAN_T2	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/2/2025 9:59	16503	STRO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 10:00	46203	DANV_T2	5	6	1	0.44	0.35	-0.09	-2.53	-2.46	0	0	0	0	0	0
2/2/2025 10:00	46204	DANV_T2	30	49	19	0.34	0.35	0.01	0	0	0	0	0	0	0	0
2/2/2025 10:01	58706	ROSE_T2	1	1	0	1.4	1.3	-0.1	-0.07	-0.09	1	1	0	600	600	0
2/2/2025 10:01	58705	ROSE_T2	5	5	0	1.26	1.44	0.18	0	0	0	0	0	0	0	0
2/2/2025 10:10	12704	MACU_T1	0	0	0	0	0	0	-1.38	-1.39	1	1	0	600	600	0
2/2/2025 10:10	57001	WHHI_T2	0	0	0	0	0	0	-1.57	-1.55	1	1	0	900	900	0
2/2/2025 10:10	12701	MACU_T1	2	4	2	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
2/2/2025 10:10	15001	BLMO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 10:12	45902	AUBU_T1	2	4	2	1.4	1.2	-0.2	0.01	0.01	0	0	0	0	0	0
2/2/2025 10:12	45901	AUBU_T1	2	4	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/2/2025 10:14	16504	STRO_T1	0	0	0	0	0	0	-1.1	-1.11	1	1	0	1200	1200	0
2/2/2025 10:14	16503	STRO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 10:16	40601	PIGR_T1	2	6	4	0.15	0.2	0.05	-0.05	-0.11	0	0	0	0	0	0
2/2/2025 10:16	40603	PIGR_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
2/2/2025 10:19	55105	WERT_T1	0	0	0	0	0	0	-0.38	-0.41	1	1	0	900	900	0
2/2/2025 10:20	11101	EGYP_T1	0	1	1	0	0	0	-0.6	-0.61	1	1	0	1200	1200	0
2/2/2025 10:20	56501	ROCK_T2	337	416	79	0.37	0.53	0.16	-2.42	-2.43	0	0	0	0	0	0
2/2/2025 10:20	11102	EGYP_T1	0	8	8	0	0	0	-0.14	-0.16	0	0	0	0	0	0
2/2/2025 10:20	11104	EGYP_T1	3	5	2	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
2/2/2025 10:21	41602	CLEV_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
2/2/2025 10:21	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 10:23	66503	SMAN_T2	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
2/2/2025 10:27	40505	CRES_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
2/2/2025 10:32	14602	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 10:32	14601	SWHI_T1	1	0	-1	0.2	0	-0.2	-1.26	-1.25	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/2/2025 10:32	10705	CATA_T2	0	0	0	0	0	0	-2.02	-2.02	1	1	0	900	900	0
2/2/2025 10:34	23001	SAJO_T1	0	0	0	0	0	0	-1.33	-1.36	0	0	0	0	0	0
2/2/2025 10:34	23002	SAJO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 10:39	61001	DONV_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
2/2/2025 10:42	64605	LEOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 10:43	65001	NEFF_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
2/2/2025 10:43	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 10:43	44905	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 10:45	46301	ROHR_T1	8	9	1	0.98	1.11	0.13	0.28	0.27	0	0	0	0	0	0
2/2/2025 10:45	57601	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 10:45	56501	ROCK_T2	409	264	-145	0.54	0.31	-0.23	-2.41	-2.36	0	0	0	0	0	0
2/2/2025 10:45	46302	ROHR_T1	3	7	4	0.43	0.17	-0.26	0	0	0	0	0	0	0	0
2/2/2025 10:45	53502	EVIL_T2	0	0	0	0	0	0	0.32	0.21	1	1	0	600	600	0
2/2/2025 10:47	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 10:48	13807	SALI_T1	2	3	1	1.2	0.15	-1.05	0	0	0	0	0	0	0	0
2/2/2025 10:48	13806	SALI_T1	0	0	0	0	0	0	0.01	0.05	1	1	0	1200	1200	0
2/2/2025 10:50	14201	EALL_T1	0	0	0	0	0	0	0.63	0.67	0	0	0	0	0	0
2/2/2025 10:52	40602	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/2/2025 10:52	12704	MACU_T1	0	0	0	0	0	0	-1.4	-1.42	1	1	0	600	600	0
2/2/2025 10:52	12701	MACU_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 10:52	40601	PIGR_T1	6	1	-5	0.2	0.2	0	0	0	0	0	0	0	0	0
2/2/2025 10:52	40603	PIGR_T1	2	2	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
2/2/2025 11:00	13102	NHAM_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
2/2/2025 11:00	53501	EVIL_T2	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
2/2/2025 11:00	13103	NHAM_T2	1	1	0	0.7	0	-0.7	-1.44	-1.44	1	1	0	600	600	0
2/2/2025 11:00	13105	NHAM_T2	18	17	-1	2.28	2.32	0.04	0	0	0	0	0	0	0	0
2/2/2025 11:01	53501	EVIL_T2	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
2/2/2025 11:03	55001	NEWP_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/2/2025 11:03	55002	NEWP_T1	3	2	-1	0.4	0.2	-0.2	-0.13	-0.15	0	0	0	0	0	0
2/2/2025 11:04	43202	MVIL_T2	2	4	2	1.05	1.5	0.45	-0.52	-0.53	0	0	0	0	0	0
2/2/2025 11:10	57106	SPHI_T2	3	3	0	0.77	1.17	0.4	0	0	0	0	0	0	0	0
2/2/2025 11:10	57104	SPHI_T2	1	5	4	3.4	6.43	3.03	-1.73	-1.69	1	1	0	900	900	0
2/2/2025 11:19	57505	LAWN_T3	3	0	-3	0.17	0	-0.17	0.84	0.8	0	0	0	0	0	0
2/2/2025 11:29	58203	NEWV_T2	1	1	0	4	3.7	-0.3	-0.31	-0.29	0	0	0	0	0	0
2/2/2025 11:30	57104	SPHI_T2	2	2	0	3.3	5.25	1.95	0	0	0	0	0	0	0	0
2/2/2025 11:30	57106	SPHI_T2	3	3	0	1.17	1.3	0.13	0	0	0	0	0	0	0	0
2/2/2025 11:30	57101	SPHI_T2	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
2/2/2025 11:33	43101	SMIL_T2	2	1	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/2/2025 11:33	43103	SMIL_T2	0	1	1	0	0	0	-2.06	-2.1	0	0	0	0	0	0
2/2/2025 11:33	45003	LIME_2	6	34	28	0.82	0.68	-0.14	0.33	0.33	0	0	0	0	0	0
2/2/2025 11:33	45001	LIME_2	2	1	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/2/2025 11:33	45002	LIME_2	1	1	0	4.5	4.9	0.4	0	0	0	0	0	0	0	0
2/2/2025 11:39	67001	STHI_T2	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
2/2/2025 11:45	24201	PROV_T3	6	5	-1	3.77	4.1	0.33	-1.26	-1.26	1	1	0	1200	1200	0
2/2/2025 11:45	24204	PROV_T3	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
2/2/2025 11:48	13101	NHAM_T1	1	2	1	0.6	0	-0.6	-2.27	-2.27	2	2	0	2100	2100	0
2/2/2025 11:48	13104	NHAM_T1	13	17	4	0.82	0.78	-0.04	0	0	0	0	0	0	0	0
2/2/2025 11:52	52001	LING_T1	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
2/2/2025 11:53	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 11:54	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 11:56	52503	PROG_T2	0	0	0	0	0	0	0.7	0.66	0	0	0	0	0	0
2/2/2025 11:57	59003	MIFF_T1	0	1	1	0	0	0	0.37	0.38	0	0	0	0	0	0
2/2/2025 11:57	62605	ENGL_T1	0	0	0	0	0	0	-1.43	-1.46	0	0	0	0	0	0
2/2/2025 11:57	62102	ELAN_T1	0	0	0	0	0	0	0.81	0.84	0	0	0	0	0	0
2/2/2025 11:59	58706	ROSE_T2	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
2/2/2025 11:59	58703	ROSE_T2	0	0	0	0	0	0	-1.48	-1.48	0	0	0	0	0	0
2/2/2025 11:59	58705	ROSE_T2	5	5	0	1.44	1.7	0.26	0	0	0	0	0	0	0	0
2/2/2025 12:00	53902	HALI_T2	1	1	0	4.8	4.6	-0.2	-0.85	-0.8	0	0	0	0	0	0
2/2/2025 12:01	52503	PROG_T2	0	0	0	0	0	0	0.7	0.66	0	0	0	0	0	0
2/2/2025 12:02	51603	DUKE_T1	0	0	0	0	0	0	-0.85	-0.88	0	0	0	0	0	0
2/2/2025 12:03	26301	OLFO_T2	0	0	0	0	0	0	0.47	0.47	2	2	0	2400	2400	0
2/2/2025 12:03	26302	OLFO_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 12:08	55101	WERT_T1	0	0	0	0	0	0	-1.76	-1.8	2	2	0	1500	1500	0
2/2/2025 12:14	15404	WALL_T1	0	0	0	0	0	0	-1.52	-1.54	0	0	0	0	0	0
2/2/2025 12:15	60502	NMAN_T2	0	0	0	0	0	0	-0.45	-0.49	0	0	0	0	0	0
2/2/2025 12:17	48902	FOSP_T2	0	0	0	0	0	0	-0.59	-0.54	0	0	0	0	0	0
2/2/2025 12:24	51004	NHAR_T1	2	2	0	5.85	5.95	0.1	0	0	0	0	0	0	0	0
2/2/2025 12:24	51002	NHAR_T1	1	2	1	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
2/2/2025 12:24	51003	NHAR_T1	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0	0
2/2/2025 12:29	52402	GRPA_T2	38	56	18	0.56	0.52	-0.04	0	0	0	0	0	0	0	0
2/2/2025 12:29	52404	GRPA_T2	8	15	7	0.34	0.36	0.02	0	0	0	0	0	0	0	0
2/2/2025 12:29	52401	GRPA_T2	1	12	11	0.2	0.73	0.53	0	0	0	0	0	0	0	0
2/2/2025 12:29	52403	GRPA_T2	9	41	32	0.96	0.91	-0.05	-0.85	-0.84	0	0	0	0	0	0
2/2/2025 12:31	47102	MARL_T2	82	87	5	0.91	0.88	-0.03	0	0	0	0	0	0	0	0
2/2/2025 12:31	47103	MARL_T2	219	217	-2	0.66	0.65	-0.01	-0.37	-0.28	0	0	0	0	0	0
2/2/2025 12:35	44502	HAMI_T2	1	1	0	1.9	2.1	0.2	0.06	0.07	0	0	0	0	0	0
2/2/2025 12:40	46204	DANV_T2	11	12	1	0.39	0.25	-0.14	0	0	0	0	0	0	0	0
2/2/2025 12:40	46203	DANV_T2	8	8	0	0.78	0.83	0.05	-2.53	-2.57	0	0	0	0	0	0
2/2/2025 12:41	27504	WEIS_T1	1	1	0	0.1	0	-0.1	-2.04	-2.05	0	0	0	0	0	0
2/2/2025 12:41	27501	WEIS_T1	5	0	-5	0.42	0	-0.42	0	0	0	0	0	0	0	0
2/2/2025 12:44	16702	MACK_T1	2	10	8	1.05	0.91	-0.14	-0.9	-0.88	0	0	0	0	0	0
2/2/2025 12:46	22803	HAUT_T2	71	65	-6	1.28	1.04	-0.24	0	0	0	0	0	0	0	0
2/2/2025 12:46	22805	HAUT_T2	82	103	21	0.99	1.68	0.69	-1.1	-1.11	1	1	0	1200	1200	0
2/2/2025 12:47	58402	MORO_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 12:47	58401	MORO_T1	0	0	0	0	0	0	-0.94	-0.91	1	1	0	600	600	0
2/2/2025 12:48	12501	MITR_T2	1	2	1	9.3	9.3	0	0	0	0	0	0	0	0	0
2/2/2025 12:48	12502	MITR_T2	16	16	0	3.02	3.39	0.37	0	0	0	0	0	0	0	0
2/2/2025 12:48	12505	MITR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 12:54	65801	RTWN_T1	0	0	0	0	0	0	-0.62	-0.61	1	1	0	300	300	0
2/2/2025 13:02	64602	LEOL_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
2/2/2025 13:04	46203	DANV_T2	8	7	-1	0.81	0.73	-0.08	0	0	0	0	0	0	0	0
2/2/2025 13:04	46206	DANV_T2	0	0	0	0	0	0	0.14	0.13	2	2	0	2100	2100	0
2/2/2025 13:04	46204	DANV_T2	6	17	11	0.32	0.25	-0.07	0	0	0	0	0	0	0	0
2/2/2025 13:04	11904	ETEX_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
2/2/2025 13:07	51003	NHAR_T1	14	2	-12	0.79	7.5	6.71	0	0	0	0	0	0	0	0
2/2/2025 13:07	51004	NHAR_T1	2	2	0	6.05	6	-0.05	0	0	0	0	0	0	0	0
2/2/2025 13:07	51002	NHAR_T1	2	2	0	0.65	0.75	0.1	0	0	0	0	0	0	0	0
2/2/2025 13:16	41305	FISH_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/2/2025 13:16	41301	FISH_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
2/2/2025 13:16	55508	HERS_T2	2	2	0	0.55	0.5	-0.05	0	0	1	1	0	1200	1200	0
2/2/2025 13:19	61306	EARL_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
2/2/2025 13:21	51602	DUKE_T2	0	0	0	0	0	0	-4.29	-4.24	1	1	0	1200	1200	0
2/2/2025 13:22	42301	MOWR_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
2/2/2025 13:25	54701	NEBL_T1	2	1	-1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
2/2/2025 13:31	40201	BEGA_T2	14	32	18	0.41	0.56	0.15	0	0	0	0	0	0	0	0
2/2/2025 13:32	20602	GRWO_T2	2	6	4	0.3	0.3	0	0	0	0	0	0	0	0	0
2/2/2025 13:32	20603	GRWO_T2	30	41	11	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
2/2/2025 13:32	20601	GRWO_T2	4	5	1	0.45	0.5	0.05	-0.06	-0.07	0	0	0	0	0	0
2/2/2025 13:34	21601	EYNO_T1	85	58	-27	0.51	0.31	-0.2	0	0	0	0	0	0	0	0
2/2/2025 13:34	21606	EYNO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 13:36	57401	SPAN_T1	0	0	0	0	0	0	-1.18	-1.23	1	1	0	600	600	0
2/2/2025 13:36	57403	SPAN_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 13:38	11406	FARM_T1	1	2	1	2.5	1.9	-0.6	0	0	0	0	0	0	0	0
2/2/2025 13:38	11405	FARM_T1	0	0	0	0	0	0	-0.94	-0.93	1	1	0	1200	1200	0
2/2/2025 13:41	47502	NECO_T1	1	1	0	0.8	0.8	0	0.71	0.71	0	0	0	0	0	0
2/2/2025 13:42	27005	BELL_T1	0	0	0	0	0	0	-1.81	-1.81	0	0	0	0	0	0
2/2/2025 14:05	47101	MARL_T1	161	173	12	1.37	1.19	-0.18	-1.66	-1.87	1	1	0	600	600	0
2/2/2025 14:07	51604	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/2/2025 14:16	58705	ROSE_T2	6	6	0	1.98	2.25	0.27	0	0	0	0	0	0	0	0
2/2/2025 14:16	58706	ROSE_T2	1	1	0	1.7	1.5	-0.2	-0.09	-0.06	1	1	0	600	600	0
2/2/2025 14:17	47103	MARL_T2	128	146	18	0.49	0.51	0.02	-0.32	-0.32	0	0	0	0	0	0
2/2/2025 14:17	47102	MARL_T2	59	69	10	0.74	0.71	-0.03	0	0	0	0	0	0	0	0
2/2/2025 14:30	13105	NHAM_T2	18	20	2	1.46	2.51	1.05	0	0	0	0	0	0	0	0
2/2/2025 14:30	13103	NHAM_T2	2	2	0	1.15	0	-1.15	-1.49	-1.46	1	1	0	600	600	0
2/2/2025 14:30	13102	NHAM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 14:42	49803	UNIV_T1	1	14	13	6.3	1.85	-4.45	-0.87	-0.8	0	0	0	0	0	0
2/2/2025 14:42	49804	UNIV_T1	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
2/2/2025 14:44	12005	HATF_T1	5	5	0	0.46	0.63	0.17	0	0	0	0	0	0	0	0
2/2/2025 14:44	12002	HATF_T1	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
2/2/2025 14:44	12007	HATF_T1	0	0	0	0	0	0	0.05	0.02	2	2	0	2400	2400	0
2/2/2025 14:44	12006	HATF_T1	2	2	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/2/2025 14:44	12004	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/2/2025 14:46	12005	HATF_T1	4	5	1	0.38	0.63	0.25	0	0	0	0	0	0	0	0
2/2/2025 14:46	12006	HATF_T1	2	2	0	0.55	0.4	-0.15	0.61	0.59	0	0	0	0	0	0
2/2/2025 14:46	12004	HATF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/2/2025 15:17	44502	HAMI_T2	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
2/2/2025 15:17	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 18:00	55101	WERT_T1	0	0	0	0	0	0	-1.21	-1.19	2	2	0	1500	1500	0
2/2/2025 18:48	11301	EMMA_T1	0	0	0	0	0	0	-0.61	-0.58	0	0	0	0	0	0
2/2/2025 18:49	45003	LIME_2	60	57	-3	1.5	0.61	-0.89	0.43	0.45	0	0	0	0	0	0
2/2/2025 18:49	23001	SAJO_T1	0	0	0	0	0	0	-1.32	-1.39	0	0	0	0	0	0
2/2/2025 18:49	45001	LIME_2	7	7	0	0.49	0.53	0.04	0	0	0	0	0	0	0	0
2/2/2025 18:49	45002	LIME_2	1	1	0	3.1	3.1	0	0	0	0	0	0	0	0	0
2/2/2025 18:49	57702	PAXT_T1	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
2/2/2025 18:51	51603	DUKE_T1	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
2/2/2025 18:52	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 18:52	44502	HAMI_T2	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
2/2/2025 18:53	44502	HAMI_T2	1	1	0	1.8	1.9	0.1	0.03	0.03	0	0	0	0	0	0
2/2/2025 18:53	44802	EDAN_T2	0	0	0	0	0	0	-3.45	-3.41	1	1	0	1200	1200	0
2/2/2025 18:53	44801	EDAN_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
2/2/2025 18:56	12505	MITR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 18:56	15203	SFAR_T2	2	1	-1	0.7	1.2	0.5	0	0	0	0	0	0	0	0
2/2/2025 18:56	15204	SFAR_T2	0	6	6	0	0.67	0.67	0.2	0.18	0	0	0	0	0	0
2/2/2025 18:56	12501	MITR_T2	1	1	0	8.6	8.4	-0.2	0	0	0	0	0	0	0	0
2/2/2025 18:56	12502	MITR_T2	17	16	-1	2.84	2.19	-0.65	0	0	0	0	0	0	0	0
2/2/2025 18:57	65801	RTWN_T1	0	0	0	0	0	0	-0.61	-0.63	1	1	0	300	300	0
2/2/2025 18:57	43202	MVIL_T2	1	1	0	1	2	1	-0.6	-0.6	0	0	0	0	0	0
2/2/2025 18:57	26301	OLFO_T2	0	0	0	0	0	0	0.44	0.43	2	2	0	2400	2400	0
2/2/2025 18:57	26302	OLFO_T2	14	15	1	0.99	0	-0.99	0	0	0	0	0	0	0	0
2/2/2025 18:58	20603	GRWO_T2	17	26	9	0.24	0.25	0.01	0	0	0	0	0	0	0	0
2/2/2025 18:58	11405	FARM_T1	1	1	0	6.1	5.9	-0.2	-0.87	-0.91	1	1	0	1200	1200	0
2/2/2025 18:58	45902	AUBU_T1	8	8	0	0.33	0.24	-0.09	0.01	0.01	1	1	0	600	600	0
2/2/2025 18:58	11406	FARM_T1	6	6	0	0.98	1.12	0.14	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/2/2025 18:58	45901	AUBU_T1	16	18	2	0.52	0.41	-0.11	0	0	0	0	0	0	0	0
2/2/2025 18:58	27005	BELL_T1	0	0	0	0	0	0	-1.79	-1.82	0	0	0	0	0	0
2/2/2025 18:58	20601	GRWO_T2	1	5	4	3.4	3.5	0.1	0	-0.03	0	0	0	0	0	0
2/2/2025 18:59	24204	PROV_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
2/2/2025 18:59	46301	ROHR_T1	6	12	6	1.22	1.08	-0.14	0.27	0.25	0	0	0	0	0	0
2/2/2025 18:59	46302	ROHR_T1	3	18	15	0.33	0.4	0.07	0	0	0	0	0	0	0	0
2/2/2025 18:59	16504	STRO_T1	0	0	0	0	0	0	-1.2	-1.21	1	1	0	1200	1200	0
2/2/2025 18:59	45801	HEGI_T1	0	0	0	0	0	0	-0.36	-0.38	1	1	0	900	900	0
2/2/2025 18:59	24201	PROV_T3	5	6	1	4.2	6.17	1.97	-1.25	-1.26	1	1	0	1200	1200	0
2/2/2025 19:00	11104	EGYP_T1	1	2	1	1.7	1.5	-0.2	0	0	0	0	0	0	0	0
2/2/2025 19:00	11101	EGYP_T1	0	0	0	0	0	0	-0.66	-0.65	1	1	0	1200	1200	0
2/2/2025 19:00	11103	EGYP_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/2/2025 19:00	40601	PIGR_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/2/2025 19:00	11102	EGYP_T1	6	10	4	0.38	0.52	0.14	0	0	0	0	0	0	0	0
2/2/2025 19:01	40301	TAMA_T3	6	1	-5	0.42	0	-0.42	2.15	1.8	2	2	0	1800	1800	0
2/2/2025 19:01	40302	TAMA_T3	28	9	-19	0.8	0.51	-0.29	0	0	0	0	0	0	0	0
2/2/2025 19:01	40303	TAMA_T3	8	0	-8	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/2/2025 19:02	14605	SWHI_T1	1	3	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/2/2025 19:02	14601	SWHI_T1	1	0	-1	0.2	0	-0.2	-1.26	-1.24	0	0	0	0	0	0
2/2/2025 19:02	14603	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 19:03	46204	DANV_T2	6	22	16	0.32	0.53	0.21	0	0	0	0	0	0	0	0
2/2/2025 19:03	16202	POFA_T1	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
2/2/2025 19:03	54506	ENOL_T2	0	0	0	0	0	0	-1	-1.11	0	1	1	0	600	600
2/2/2025 19:03	52004	LING_T2	3	6	3	2.97	4.15	1.18	0.23	0.25	0	0	0	0	0	0
2/2/2025 19:03	22003	BOHE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 19:03	46203	DANV_T2	7	8	1	0.66	0.4	-0.26	-2.51	-2.51	0	0	0	0	0	0
2/2/2025 19:04	14705	TREX_T1	1	1	0	0.9	0	-0.9	-0.22	-0.23	0	0	0	0	0	0
2/2/2025 19:04	14704	TREX_T1	1	1	0	9	8.9	-0.1	0	0	0	0	0	0	0	0
2/2/2025 19:04	15404	WALL_T1	0	0	0	0	0	0	-1.54	-1.54	0	0	0	0	0	0
2/2/2025 19:04	61103	BERK_T5	0	0	0	0	0	0	0.07	0.1	0	0	0	0	0	0
2/2/2025 19:05	63305	GREE_T1	2	2	0	0.1	0.15	0.05	-2.65	-2.64	1	1	0	900	900	0
2/2/2025 19:05	60502	NMAN_T2	0	0	0	0	0	0	-0.39	-0.44	0	0	0	0	0	0
2/2/2025 19:05	53902	HALI_T2	1	1	0	4.9	4.8	-0.1	-0.8	-0.84	0	0	0	0	0	0
2/2/2025 19:05	53901	HALI_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/2/2025 19:05	43101	SMIL_T2	1	3	2	0.4	0.75	0.35	0	0	0	0	0	0	0	0
2/2/2025 19:05	61306	EARL_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
2/2/2025 19:05	57001	WHHI_T2	0	0	0	0	0	0	-1.62	-1.63	1	1	0	900	900	0
2/2/2025 19:05	43103	SMIL_T2	0	0	0	0	0	0	-2.08	-2.09	0	0	0	0	0	0
2/2/2025 19:05	55002	NEWP_T1	2	3	1	0.75	0.7	-0.05	-0.17	-0.16	0	0	0	0	0	0
2/2/2025 19:05	53903	HALI_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
2/2/2025 19:06	10705	CATA_T2	0	0	0	0	0	0	-2.04	-2.06	1	1	0	900	900	0
2/2/2025 19:06	15001	BLMO_T1	1	2	1	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
2/2/2025 19:06	40601	PIGR_T1	3	0	-3	0.1	0	-0.1	-0.09	-0.14	0	0	0	0	0	0
2/2/2025 19:06	12704	MACU_T1	0	0	0	0	0	0	-1.43	-1.43	1	1	0	600	600	0
2/2/2025 19:06	11904	ETEX_T2	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
2/2/2025 19:06	10701	CATA_T2	1	0	-1	2.2	0	-2.2	0	0	0	0	0	0	0	0
2/2/2025 19:06	51602	DUKE_T2	0	0	0	0	0	0	-4.32	-4.31	1	1	0	1200	1200	0
2/2/2025 19:06	51702	OBER_T1	3	3	0	1.17	1.7	0.53	-0.86	-0.85	1	1	0	600	600	0
2/2/2025 19:07	40505	CRES_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
2/2/2025 19:07	64605	LEOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 19:07	40802	EXCH_T2	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
2/2/2025 19:07	41301	FISH_T1	2	1	-1	1.25	1.5	0.25	0	0	0	0	0	0	0	0
2/2/2025 19:07	60701	BREC_T1	6	6	0	1.45	0.2	-1.25	-1.04	-1	2	2	0	1200	1200	0
2/2/2025 19:08	15703	TANN_T2	1	1	0	7.2	7.4	0.2	0	0	0	0	0	0	0	0
2/2/2025 19:08	44905	SCOT_T1	7	39	32	0.43	0.53	0.1	0	0	0	0	0	0	0	0
2/2/2025 19:08	13104	NHAM_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/2/2025 19:08	44904	SCOT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/2/2025 19:08	66503	SMAN_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
2/2/2025 19:08	13101	NHAM_T1	6	4	-2	0.93	0	-0.93	-2.21	-2.24	2	2	0	2100	2100	0
2/2/2025 19:08	60701	BREC_T1	6	6	0	1.45	0.2	-1.25	-1.04	-1	2	2	0	1200	1200	0
2/2/2025 19:08	15702	TANN_T2	15	17	2	0.54	0.5	-0.04	-0.15	-0.12	0	0	0	0	0	0
2/2/2025 19:08	64605	LEOL_T1	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
2/2/2025 19:08	16302	ALPA_T2	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
2/2/2025 19:09	27504	WEIS_T1	0	1	1	0	0	0	-2.07	-2.04	0	0	0	0	0	0
2/2/2025 19:09	51901	COPA_T1	0	0	0	0	0	0	-0.67	-0.69	1	1	0	1200	1200	0
2/2/2025 19:09	49803	UNIV_T1	1	6	5	5.9	6.8	0.9	-0.84	-0.9	0	0	0	0	0	0
2/2/2025 19:09	64602	LEOL_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
2/2/2025 19:09	21606	EYNO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 19:09	27501	WEIS_T1	1	7	6	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
2/2/2025 19:09	62102	ELAN_T1	0	0	0	0	0	0	0.81	0.82	0	0	0	0	0	0
2/2/2025 19:09	21601	EYNO_T1	91	89	-2	0.48	0.36	-0.12	0	0	0	0	0	0	0	0
2/2/2025 19:09	49804	UNIV_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 19:09	51306	WIND_T2	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
2/2/2025 19:10	16702	MACK_T1	15	14	-1	3.17	2.69	-0.48	-0.85	-0.86	0	0	0	0	0	0
2/2/2025 19:10	46203	DANV_T2	7	8	1	0.66	0.4	-0.26	0	0	0	0	0	0	0	0
2/2/2025 19:10	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 19:10	54701	NEBL_T1	6	1	-5	0.32	0.8	0.48	0	0	0	0	0	0	0	0
2/2/2025 19:10	52503	PROG_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
2/2/2025 19:10	46206	DANV_T2	0	0	0	0	0	0	-0.32	-0.33	2	2	0	2100	2100	0
2/2/2025 19:10	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 19:10	52502	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 19:10	53802	MBRG_T2	0	1	1	0	0.5	0.5	0.07	0.05	0	0	0	0	0	0
2/2/2025 19:10	46204	DANV_T2	6	22	16	0.32	0.53	0.21	0	0	0	0	0	0	0	0
2/2/2025 19:10	12006	HATF_T1	2	2	0	1.45	1.35	-0.1	0.63	0.6	0	0	0	0	0	0
2/2/2025 19:11	47103	MARL_T2	411	193	-218	1.32	0.58	-0.74	0.34	-0.36	0	0	0	0	0	0
2/2/2025 19:11	52001	LING_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
2/2/2025 19:11	61102	BERK_T5	0	0	0	0	0	0	0.65	0.57	1	1	0	300	300	0
2/2/2025 19:11	47102	MARL_T2	169	78	-91	1.62	0.98	-0.64	0	0	0	0	0	0	0	0
2/2/2025 19:11	48902	FOSP_T2	0	1	1	0	0	0	-0.54	-0.54	0	0	0	0	0	0
2/2/2025 19:12	11302	EMMA_T1	0	0	0	0	0	0	0.07	0.11	1	1	0	600	600	0
2/2/2025 19:13	65001	NEFF_T2	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
2/2/2025 19:13	42802	SELI_T1	0	0	0	0	0	0	-1.75	-1.77	0	0	0	0	0	0
2/2/2025 19:14	12502	MITR_T2	16	16	0	3.42	1.17	-2.25	0	0	0	0	0	0	0	0
2/2/2025 19:14	12501	MITR_T2	1	1	0	8.4	8.9	0.5	0	0	0	0	0	0	0	0
2/2/2025 19:14	14201	EALL_T1	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
2/2/2025 19:14	58703	ROSE_T2	0	0	0	0	0	0	-1.47	-1.49	0	0	0	0	0	0
2/2/2025 19:14	10801	CHHI_T1	4	5	1	0.48	0.2	-0.28	-1.97	-1.92	3	3	0	2100	2100	0
2/2/2025 19:14	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 19:14	40601	PIGR_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/2/2025 19:14	16503	STRO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 19:14	58705	ROSE_T2	5	5	0	1.78	1.76	-0.02	0	0	0	0	0	0	0	0
2/2/2025 19:14	54503	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 19:14	12505	MITR_T2	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
2/2/2025 19:14	58706	ROSE_T2	1	1	0	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
2/2/2025 19:15	58705	ROSE_T2	5	5	0	1.76	1.88	0.12	0	0	0	0	0	0	0	0
2/2/2025 19:15	56501	ROCK_T2	268	273	5	0.32	0.34	0.02	-2.42	-2.39	0	0	0	0	0	0
2/2/2025 19:15	67303	WYOM_T2	0	0	0	0	0	0	-0.52	-0.56	0	0	0	0	0	0
2/2/2025 19:15	57505	LAWN_T3	2	1	-1	0.2	0	-0.2	0.82	0.8	0	0	0	0	0	0
2/2/2025 19:15	53501	EVIL_T2	0	0	0	0	0	0	-1.19	-0.56	1	0	-1	600	0	-600
2/2/2025 19:15	58706	ROSE_T2	1	1	0	1.2	1.1	-0.1	-0.16	-0.17	1	1	0	600	600	0
2/2/2025 19:16	13105	NHAM_T2	8	16	8	0.34	0.47	0.13	0	0	0	0	0	0	0	0
2/2/2025 19:16	13102	NHAM_T2	1	1	0	2.5	1.3	-1.2	0	0	0	0	0	0	0	0
2/2/2025 19:16	47103	MARL_T2	193	175	-18	0.58	0.56	-0.02	-0.34	-0.36	0	0	0	0	0	0
2/2/2025 19:16	11104	EGYP_T1	2	2	0	1	0	-1	0	0	0	0	0	0	0	0
2/2/2025 19:16	58705	ROSE_T2	5	5	0	1.76	1.88	0.12	0	0	0	0	0	0	0	0
2/2/2025 19:16	44301	BEAV_T2	2	2	0	2.1	1.2	-0.9	0	0	0	0	0	0	0	0
2/2/2025 19:16	58706	ROSE_T2	1	1	0	1.2	1.1	-0.1	-0.16	-0.17	1	1	0	600	600	0
2/2/2025 19:16	11102	EGYP_T1	9	10	1	0.52	1.09	0.57	-0.21	-0.19	0	0	0	0	0	0
2/2/2025 19:16	13103	NHAM_T2	0	3	3	0	0.6	0.6	-1.51	-1.5	1	1	0	600	600	0
2/2/2025 19:16	47102	MARL_T2	78	71	-7	0.97	0.98	0.01	0	0	0	0	0	0	0	0
2/2/2025 19:16	67703	WERN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/2/2025 19:16	67001	STHI_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
2/2/2025 19:16	67702	WERN_T2	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
2/2/2025 19:16	12704	MACU_T1	0	0	0	0	0	0	-1.43	-1.43	1	1	0	600	600	0
2/2/2025 19:17	46203	DANV_T2	7	14	7	0.44	0.75	0.31	-2.51	-2.43	0	0	0	0	0	0
2/2/2025 19:17	57101	SPHI_T2	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
2/2/2025 19:17	53902	HALI_T2	1	1	0	4.8	4.9	0.1	0	0	0	0	0	0	0	0
2/2/2025 19:17	57505	LAWN_T3	2	1	-1	0.2	0	-0.2	0.82	0.8	0	0	0	0	0	0
2/2/2025 19:17	46702	RENO_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
2/2/2025 19:17	57106	SPHI_T2	3	3	0	1.23	1.27	0.04	0	0	0	0	0	0	0	0
2/2/2025 19:17	57104	SPHI_T2	3	4	1	4.63	4.2	-0.43	0	0	0	0	0	0	0	0
2/2/2025 19:17	53901	HALI_T2	2	2	0	0.1	0.1	0	-3.84	-3.72	0	0	0	0	0	0
2/2/2025 19:17	46204	DANV_T2	12	21	9	0.67	0.33	-0.34	0	0	0	0	0	0	0	0
2/2/2025 19:17	53903	HALI_T2	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/2/2025 19:18	53902	HALI_T2	1	1	0	4.8	4.9	0.1	0	0	0	0	0	0	0	0
2/2/2025 19:18	57106	SPHI_T2	3	3	0	1.23	1.27	0.04	0	0	0	0	0	0	0	0
2/2/2025 19:18	53901	HALI_T2	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/2/2025 19:18	52402	GRPA_T2	40	28	-12	0.92	0.83	-0.09	0	0	0	0	0	0	0	0
2/2/2025 19:18	57104	SPHI_T2	3	4	1	4.63	4.2	-0.43	-1.78	-1.77	1	1	0	900	900	0
2/2/2025 19:18	52403	GRPA_T2	19	6	-13	0.65	0.65	0	-1.23	-1.35	0	0	0	0	0	0
2/2/2025 19:18	52401	GRPA_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/2/2025 19:18	53903	HALI_T2	2	2	0	0.6	0.5	-0.1	-0.19	-0.12	0	0	0	0	0	0
2/2/2025 19:18	56501	ROCK_T2	268	273	5	0.32	0.34	0.02	-2.42	-2.39	0	0	0	0	0	0
2/2/2025 19:18	42302	MOWR_T2	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
2/2/2025 19:18	52404	GRPA_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/2/2025 19:18	42301	MOWR_T2	0	0	0	0	0	0	-0.35	-0.32	0	0	0	0	0	0
2/2/2025 19:19	51604	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/2/2025 19:19	57403	SPAN_T1	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
2/2/2025 19:19	53501	EVIL_T2	0	0	0	0	0	0	-1.19	-0.56	1	0	-1	600	0	-600
2/2/2025 19:19	40201	BEGA_T2	38	65	27	0.51	0.4	-0.11	0	0	0	0	0	0	0	0
2/2/2025 19:19	67202	TEHI_T2	0	0	0	0	0	0	-0.81	-0.8	1	1	0	900	900	0
2/2/2025 19:19	57401	SPAN_T1	0	0	0	0	0	0	-1.2	-1.23	1	1	0	600	600	0
2/2/2025 19:19	53502	EVIL_T2	0	0	0	0	0	0	0.23	0.16	1	1	0	600	600	0
2/2/2025 19:20	51006	NHAR_T1	1	1	0	1.6	0.8	-0.8	0	0	0	0	0	0	0	0
2/2/2025 19:20	59003	MIFF_T1	1	1	0	0.2	0.3	0.1	-0.66	-0.57	0	0	0	0	0	0
2/2/2025 19:20	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2025 19:20	59002	MIFF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/2/2025 19:20	51002	NHAR_T1	2	2	0	1.45	0.95	-0.5	0	0	0	0	0	0	0	0
2/2/2025 19:20	51003	NHAR_T1	7	7	0	2.17	2.1	-0.07	0	0	0	0	0	0	0	0
2/2/2025 19:20	51004	NHAR_T1	2	3	1	6.1	5.95	-0.15	0	0	0	0	0	0	0	0
2/2/2025 19:20	41602	CLEV_T1	1	44	43	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/2/2025 19:21	58203	NEWV_T2	1	2	1	4.3	2.45	-1.85	-0.33	-0.31	0	0	0	0	0	0
2/2/2025 19:21	65904	SAKR_T2	0	0	0	0	0	0	-2.07	-2.04	3	3	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/2/2025 19:21	65901	SAKR_T2	1	1	0	9.3	9.3	0	0	0	0	0	0	0	0	0
2/2/2025 19:21	61001	DONV_T1	0	0	0	0	0	0	0.65	0	0	0	0	0	0	0
2/2/2025 19:22	13806	SALI_T1	0	0	0	0	0	0	0.05	0.04	1	1	0	1200	1200	0
2/2/2025 19:22	64401	LAND_T1	0	0	0	0	0	0	-1.11	-1.07	1	1	0	600	600	0
2/2/2025 19:22	62605	ENGL_T1	0	0	0	0	0	0	-2.06	-2.06	0	0	0	0	0	0
2/2/2025 19:22	52503	PROG_T2	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
2/2/2025 19:22	13807	SALI_T1	2	16	14	2.15	1.45	-0.7	0	0	0	0	0	0	0	0
2/2/2025 19:22	59101	WALK_T2	1	1	0	1.1	0.8	-0.3	0.61	0.59	1	1	0	600	600	0
2/2/2025 19:22	62606	ENGL_T1	3	5	2	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
2/2/2025 19:23	22805	HAUT_T2	125	137	12	1.85	1.79	-0.06	-1.13	-1.18	1	1	0	1200	1200	0
2/2/2025 19:23	22803	HAUT_T2	166	190	24	1.66	1.67	0.01	0	0	0	0	0	0	0	0
2/2/2025 19:24	55105	WERT_T1	0	0	0	0	0	0	-0.36	-0.38	1	1	0	900	900	0
2/2/2025 19:25	54603	SUMM_T2	0	0	0	0	0	0	-0.37	-0.41	1	1	0	900	900	0
2/2/2025 19:26	58402	MORO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/2/2025 19:26	58401	MORO_T1	0	1	1	0	0	0	-0.94	-0.99	1	1	0	600	600	0
2/2/2025 20:35	57601	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 9:00	40505	CRES_T1	1	1	0	1.2	0.2	-1	0.46	0.45	0	0	0	0	0	0
2/3/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
2/3/2025 9:00	67702	WERN_T2	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
2/3/2025 9:07	28102	TWLA_T2	1	0	-1	0.8	0	-0.8	0.25	0.24	0	0	0	0	0	0
2/3/2025 9:12	60301	TWVA_T2	0	0	0	0	0	0	-2.94	-2.94	2	2	0	1800	1800	0
2/3/2025 9:12	53502	EVIL_T2	1	1	0	2.5	0.5	-2	0	0	0	0	0	0	0	0
2/3/2025 9:12	53501	EVIL_T2	1	2	1	1.2	1	-0.2	0	0	0	0	0	0	0	0
2/3/2025 9:12	51604	DUKE_T2	2	2	0	0.15	0.1	-0.05	0	0	1	0	-1	900	0	-900
2/3/2025 9:32	40101	HUNT_T2	312	285	-27	0.74	0.75	0.01	-0.51	-0.52	0	0	0	0	0	0
2/3/2025 9:39	55101	WERT_T1	0	0	0	0	0	0	-1.39	-1.41	2	2	0	1500	1500	0
2/3/2025 9:40	55101	WERT_T1	0	0	0	0	0	0	-2.78	-2.82	4	4	0	3000	3000	0
2/3/2025 9:41	55101	WERT_T1	0	0	0	0	0	0	-4.17	-4.23	6	6	0	4500	4500	0
2/3/2025 9:42	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 9:43	55101	WERT_T1	0	0	0	0	0	0	-1.39	-1.41	2	2	0	1500	1500	0
2/3/2025 10:06	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 10:06	55002	NEWP_T1	4	3	-1	0.33	0.33	0	-0.18	-0.19	0	0	0	0	0	0
2/3/2025 10:07	14103	TRUM_T2	7	1	-6	1.04	0	-1.04	0	0	0	0	0	0	0	0
2/3/2025 10:07	14102	TRUM_T2	0	0	0	0	0	0	-1.12	-1.13	3	3	0	2400	2400	0
2/3/2025 10:08	65202	PRIN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/3/2025 10:08	65205	PRIN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/3/2025 10:11	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 10:19	44902	SCOT_T2	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
2/3/2025 10:19	41901	REED_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/3/2025 10:19	41902	REED_T1	0	0	0	0	0	0	0.15	0.17	1	1	0	900	900	0
2/3/2025 10:21	67402	WAKE_T2	0	0	0	0	0	0	0.53	0.5	1	1	0	600	600	0
2/3/2025 10:25	67402	WAKE_T2	0	0	0	0	0	0	0.53	0.5	1	1	0	600	600	0
2/3/2025 10:27	53501	EVIL_T2	0	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0
2/3/2025 10:27	53502	EVIL_T2	1	1	0	1.5	0	-1.5	0.33	0.33	2	2	0	1200	1200	0
2/3/2025 10:29	53501	EVIL_T2	0	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0
2/3/2025 10:29	53502	EVIL_T2	1	1	0	1.5	0	-1.5	0.33	0.33	2	2	0	1200	1200	0
2/3/2025 10:30	53502	EVIL_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/3/2025 10:30	53501	EVIL_T2	2	2	0	0.8	0.85	0.05	-1.11	-1.17	2	2	0	1200	1200	0
2/3/2025 10:35	41902	REED_T1	0	0	0	0	0	0	0.17	0.28	1	1	0	900	900	0
2/3/2025 10:35	41903	REED_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 10:36	41902	REED_T1	0	0	0	0	0	0	0.28	0.31	1	1	0	900	900	0
2/3/2025 10:36	41903	REED_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 10:36	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 10:37	41903	REED_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 10:37	41902	REED_T1	0	0	0	0	0	0	0.28	0.31	1	1	0	900	900	0
2/3/2025 10:40	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/3/2025 10:40	65206	PRIN_T4	1	1	0	5	3.9	-1.1	0	0	0	0	0	0	0	0
2/3/2025 10:40	65207	PRIN_T4	3	3	0	3.07	0.4	-2.67	0	0	0	0	0	0	0	0
2/3/2025 10:43	52404	GRPA_T2	185	185	0	2.26	0	-2.26	0	0	0	0	0	0	0	0
2/3/2025 10:43	52403	GRPA_T2	2	6	4	1.3	0.68	-0.62	-1.05	-1.2	0	0	0	0	0	0
2/3/2025 10:43	52402	GRPA_T2	25	37	12	0.54	0.32	-0.22	0	0	0	0	0	0	0	0
2/3/2025 10:45	45802	HEGI_T2	12	47	35	0.2	1.26	1.06	0	0	0	0	0	0	0	0
2/3/2025 10:46	52404	GRPA_T2	185	0	-185	2.05	0	-2.05	0	0	0	0	0	0	0	0
2/3/2025 10:46	52402	GRPA_T2	18	39	21	0.33	0.36	0.03	0	0	0	0	0	0	0	0
2/3/2025 10:46	52403	GRPA_T2	4	8	4	0.58	0.68	0.1	-1.05	-1.2	0	0	0	0	0	0
2/3/2025 10:48	52002	LING_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
2/3/2025 10:48	52004	LING_T2	2	3	1	4.55	3.33	-1.22	0	0	0	0	0	0	0	0
2/3/2025 10:48	55002	NEWP_T1	3	5	2	0.63	0.42	-0.21	-0.18	0	0	0	0	0	0	0
2/3/2025 10:49	40602	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/3/2025 10:49	40601	PIGR_T1	8	31	23	0.14	0.16	0.02	0	0	0	0	0	0	0	0
2/3/2025 10:58	44801	EDAN_T2	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
2/3/2025 10:58	61502	EPET_T1	1	0	-1	0.1	0	-0.1	-2.57	-1.23	0	0	0	0	0	0
2/3/2025 10:59	52403	GRPA_T2	4	8	4	0.58	0.68	0.1	-1.2	-1.33	0	0	0	0	0	0
2/3/2025 10:59	52404	GRPA_T2	185	0	-185	2.05	0	-2.05	0	0	0	0	0	0	0	0
2/3/2025 10:59	52402	GRPA_T2	18	39	21	0.33	0.36	0.03	0	0	0	0	0	0	0	0
2/3/2025 11:00	52001	LING_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
2/3/2025 11:07	59101	WALK_T2	0	0	0	0	0	0	1.51	1.2	1	1	0	600	600	0
2/3/2025 11:10	59101	WALK_T2	0	0	0	0	0	0	1.51	1.2	1	1	0	600	600	0
2/3/2025 11:10	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:10	46206	DANV_T2	0	0	0	0	0	0	-0.44	-0.44	1	1	0	1200	1200	0
2/3/2025 11:11	40201	BEGA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/3/2025 11:11	59101	WALK_T2	0	0	0	0	0	0	1.51	1.2	1	1	0	600	600	0
2/3/2025 11:11	16102	BING_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/3/2025 11:11	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:12	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:12	59101	WALK_T2	0	0	0	0	0	0	1.51	1.2	1	1	0	600	600	0
2/3/2025 11:12	40201	BEGA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/3/2025 11:12	46203	DANV_T2	0	0	0	0	0	0	-1.84	-1.85	0	0	0	0	0	0
2/3/2025 11:13	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:13	46203	DANV_T2	0	0	0	0	0	0	-1.84	-1.85	0	0	0	0	0	0
2/3/2025 11:14	52403	GRPA_T2	6	8	2	0.78	0.66	-0.12	-1.33	-1.72	0	0	0	0	0	0
2/3/2025 11:14	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:14	52402	GRPA_T2	37	27	-10	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
2/3/2025 11:14	46206	DANV_T2	0	0	0	0	0	0	-0.87	-0.88	2	2	0	2400	2400	0
2/3/2025 11:15	40101	HUNT_T2	204	261	57	0.73	0.66	-0.07	-0.56	-0.4	0	0	0	0	0	0
2/3/2025 11:15	52403	GRPA_T2	7	6	-1	0.66	0.93	0.27	-1.33	-0.72	0	0	0	0	0	0
2/3/2025 11:15	52402	GRPA_T2	23	29	6	0.36	0.4	0.04	0	0	0	0	0	0	0	0
2/3/2025 11:16	52403	GRPA_T2	7	6	-1	0.66	0.93	0.27	0	0	0	0	0	0	0	0
2/3/2025 11:16	52401	GRPA_T2	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
2/3/2025 11:16	52402	GRPA_T2	23	29	6	0.36	0.4	0.04	0	0	0	0	0	0	0	0
2/3/2025 11:17	40101	HUNT_T2	204	261	57	0.73	0.66	-0.07	-0.56	-0.4	0	0	0	0	0	0
2/3/2025 11:17	65501	MOJO_T1	0	0	0	0	0	0	2.06	2.04	2	2	0	1800	1800	0
2/3/2025 11:18	40101	HUNT_T2	204	261	57	0.73	0.66	-0.07	-0.56	-0.4	0	0	0	0	0	0
2/3/2025 11:18	55002	NEWP_T1	4	4	0	0.45	0.68	0.23	-0.19	-0.21	0	0	0	0	0	0
2/3/2025 11:19	51002	NHAR_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
2/3/2025 11:19	13803	SALI_T1	0	0	0	0	0	0	0.36	0.41	2	2	0	2400	2400	0
2/3/2025 11:19	55002	NEWP_T1	4	4	0	0.45	0.68	0.23	-0.19	-0.21	0	0	0	0	0	0
2/3/2025 11:19	44901	SCOT_T2	0	0	0	0	0	0	-0.01	-0.07	0	0	0	0	0	0
2/3/2025 11:19	56501	ROCK_T2	2	3	1	1.15	0.33	-0.82	-1.68	-1.77	0	0	0	0	0	0
2/3/2025 11:19	48302	ORWI_T2	0	2	2	0	0.4	0.4	-0.49	-0.5	0	0	0	0	0	0
2/3/2025 11:19	51004	NHAR_T1	2	2	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
2/3/2025 11:19	51003	NHAR_T1	3	1	-2	3.6	7	3.4	0	0	0	0	0	0	0	0
2/3/2025 11:20	65004	NEFF_T2	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
2/3/2025 11:20	65802	RTWN_T2	0	0	0	0	0	0	-0.33	-0.28	0	0	0	0	0	0
2/3/2025 11:20	41901	REED_T1	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
2/3/2025 11:20	51004	NHAR_T1	2	2	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
2/3/2025 11:20	51003	NHAR_T1	3	1	-2	3.6	7	3.4	0	0	0	0	0	0	0	0
2/3/2025 11:20	42202	SHEN_T2	3	5	2	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
2/3/2025 11:20	66901	SHIL_T2	0	0	0	0	0	0	-1.49	-1.52	1	1	0	1200	1200	0
2/3/2025 11:20	48602	POCA_T1	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
2/3/2025 11:20	41902	REED_T1	0	5	5	0	0.65	0.65	0	0	0	0	0	0	0	0
2/3/2025 11:20	26302	OLFO_T2	0	0	0	0	0	0	-0.11	-0.11	2	2	0	1500	1500	0
2/3/2025 11:20	55002	NEWP_T1	4	4	0	0.45	0.68	0.23	-0.19	-0.21	0	0	0	0	0	0
2/3/2025 11:20	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:20	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:20	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:20	51002	NHAR_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
2/3/2025 11:20	42201	SHEN_T2	0	1	1	0	0	0	-0.02	-0.09	1	1	0	600	600	0
2/3/2025 11:20	65001	NEFF_T2	0	0	0	0	0	0	0.03	0.09	0	0	0	0	0	0
2/3/2025 11:20	66902	SHIL_T2	0	0	0	0	0	0	-3.94	-3.98	0	0	0	0	0	0
2/3/2025 11:20	65003	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:21	51004	NHAR_T1	2	2	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
2/3/2025 11:21	57602	RUTH_T2	0	0	0	0	0	0	-5.01	-4.98	0	0	0	0	0	0
2/3/2025 11:21	67103	SPRI_T1	0	0	0	0	0	0	-2.04	-2.02	0	0	0	0	0	0
2/3/2025 11:21	65003	NEFF_T2	0	0	0	0	0	0	-0.91	-0.97	2	2	0	1800	1800	0
2/3/2025 11:21	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:21	15202	SFAR_T1	0	0	0	0	0	0	-0.85	-0.85	1	1	0	1200	1200	0
2/3/2025 11:21	57601	RUTH_T2	0	38	38	0	0.11	0.11	-1.25	-1.25	0	0	0	0	0	0
2/3/2025 11:21	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:21	15203	SFAR_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/3/2025 11:21	64101	REFR_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
2/3/2025 11:21	51002	NHAR_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
2/3/2025 11:21	66901	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:21	13806	SALI_T1	0	0	0	0	0	0	0.28	0.19	2	2	0	2400	2400	0
2/3/2025 11:21	51003	NHAR_T1	3	1	-2	3.6	7	3.4	0	0	0	0	0	0	0	0
2/3/2025 11:21	65802	RTWN_T2	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
2/3/2025 11:21	42202	SHEN_T2	3	5	2	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
2/3/2025 11:21	42201	SHEN_T2	0	1	1	0	0	0	-0.17	-0.05	2	2	0	1200	1200	0
2/3/2025 11:21	13302	ORVI_T2	4	6	2	0.18	0.23	0.05	0.99	1.01	0	0	0	0	0	0
2/3/2025 11:21	13303	ORVI_T1	0	0	0	0	0	0	1.14	1.11	0	0	0	0	0	0
2/3/2025 11:21	41902	REED_T1	0	5	5	0	0.65	0.65	0	0	0	0	0	0	0	0
2/3/2025 11:21	13803	SALI_T1	0	0	0	0	0	0	0.83	0.78	4	4	0	4800	4800	0
2/3/2025 11:21	66902	SHIL_T2	0	0	0	0	0	0	-5.97	-5.97	0	0	0	0	0	0
2/3/2025 11:22	57201	ROSS_T1	0	0	0	0	0	0	-1.03	-1.13	0	0	0	0	0	0
2/3/2025 11:22	63804	HEMP_T1	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
2/3/2025 11:22	42802	SELI_T1	0	0	0	0	0	0	-1.32	-1.36	1	1	0	900	900	0
2/3/2025 11:22	63803	HEMP_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/3/2025 11:22	66901	SHIL_T2	0	0	0	0	0	0	-1.52	-1.51	1	1	0	1200	1200	0
2/3/2025 11:22	65703	RVIL_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/3/2025 11:22	57205	ROSS_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
2/3/2025 11:22	64101	REFR_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
2/3/2025 11:22	63801	HEMP_T1	0	1	1	0	0.2	0.2	0.29	0.3	0	0	0	0	0	0
2/3/2025 11:22	51004	NHAR_T1	2	2	0	6	5.8	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/3/2025 11:22	66903	SHIL_T2	0	0	0	0	0	0	-2.34	-2.46	0	0	0	0	0	0
2/3/2025 11:22	51002	NHAR_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
2/3/2025 11:22	51003	NHAR_T1	3	1	-2	3.6	7	3.4	0	0	0	0	0	0	0	0
2/3/2025 11:23	56501	ROCK_T2	2	3	1	1.15	0.33	-0.82	-1.77	-1.75	0	0	0	0	0	0
2/3/2025 11:23	51003	NHAR_T1	3	1	-2	3.6	7	3.4	0	0	0	0	0	0	0	0
2/3/2025 11:23	57205	ROSS_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
2/3/2025 11:23	67003	STHI_T1	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
2/3/2025 11:23	55002	NEWP_T1	4	4	0	0.45	0.68	0.23	-0.21	-0.22	0	0	0	0	0	0
2/3/2025 11:23	57203	ROSS_T1	0	0	0	0	0	0	-1.18	-0.61	0	0	0	0	0	0
2/3/2025 11:23	51006	NHAR_T1	0	0	0	0	0	0	-2.59	-2.46	2	2	0	2100	2100	0
2/3/2025 11:23	67106	SPRI_T2	0	0	0	0	0	0	-3.78	-3.74	2	2	0	1800	1800	0
2/3/2025 11:23	64101	REFR_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
2/3/2025 11:23	40201	BEGA_T2	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/3/2025 11:23	18801	NCOO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/3/2025 11:23	15202	SFAR_T1	0	0	0	0	0	0	-0.85	-0.85	1	1	0	1200	1200	0
2/3/2025 11:23	57601	RUTH_T2	0	38	38	0	0.11	0.11	0	0	0	0	0	0	0	0
2/3/2025 11:23	18802	NCOO_T1	0	0	0	0	0	0	-0.53	-0.52	1	1	0	600	600	0
2/3/2025 11:23	51004	NHAR_T1	2	2	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
2/3/2025 11:23	57602	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:23	51002	NHAR_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
2/3/2025 11:24	42201	SHEN_T2	0	1	1	0	0	0	-0.17	-0.05	2	2	0	1200	1200	0
2/3/2025 11:24	66903	SHIL_T2	0	0	0	0	0	0	-3.51	-3.68	0	0	0	0	0	0
2/3/2025 11:24	57602	RUTH_T2	0	0	0	0	0	0	-1.66	-1.59	0	0	0	0	0	0
2/3/2025 11:24	66901	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:24	67106	SPRI_T2	0	0	0	0	0	0	-7.56	-7.48	4	4	0	3600	3600	0
2/3/2025 11:24	42701	AUGU_T1	1	1	0	0.5	0.7	0.2	0	0	2	2	0	1800	1800	0
2/3/2025 11:24	56501	ROCK_T2	2	3	1	1.15	0.33	-0.82	-1.77	-1.75	0	0	0	0	0	0
2/3/2025 11:24	57104	SPHI_T2	3	3	0	4.53	3.1	-1.43	0	0	0	0	0	0	0	0
2/3/2025 11:24	42202	SHEN_T2	3	5	2	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
2/3/2025 11:24	57601	RUTH_T2	0	38	38	0	0.11	0.11	-1.25	-1.26	0	0	0	0	0	0
2/3/2025 11:24	57106	SPHI_T2	3	3	0	1.47	1.7	0.23	0	0	0	0	0	0	0	0
2/3/2025 11:24	57103	SPHI_T2	0	0	0	0	0	0	-0.85	-0.86	1	1	0	600	600	0
2/3/2025 11:25	66901	SHIL_T2	0	0	0	0	0	0	-1.52	-1.51	1	1	0	1200	1200	0
2/3/2025 11:25	15202	SFAR_T1	0	0	0	0	0	0	-0.85	-0.85	1	1	0	1200	1200	0
2/3/2025 11:25	66902	SHIL_T2	0	0	0	0	0	0	-1.99	-1.99	0	0	0	0	0	0
2/3/2025 11:25	13806	SALI_T1	0	0	0	0	0	0	0.28	0.19	2	2	0	2400	2400	0
2/3/2025 11:25	57601	RUTH_T2	0	38	38	0	0.11	0.11	-1.25	-1.26	0	0	0	0	0	0
2/3/2025 11:25	57602	RUTH_T2	0	0	0	0	0	0	-3.32	-3.18	0	0	0	0	0	0
2/3/2025 11:25	57203	ROSS_T1	0	0	0	0	0	0	-1.18	-0.61	0	0	0	0	0	0
2/3/2025 11:25	13803	SALI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:25	56501	ROCK_T2	2	3	1	1.15	0.33	-0.82	-1.77	-1.75	0	0	0	0	0	0
2/3/2025 11:25	67103	SPRI_T1	0	0	0	0	0	0	-2.04	-2.02	0	0	0	0	0	0
2/3/2025 11:25	57205	ROSS_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
2/3/2025 11:25	44801	EDAN_T2	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
2/3/2025 11:25	66903	SHIL_T2	0	0	0	0	0	0	-2.34	-2.46	0	0	0	0	0	0
2/3/2025 11:26	46206	DANV_T2	0	0	0	0	0	0	-0.44	-0.38	1	1	0	1200	1200	0
2/3/2025 11:26	57106	SPHI_T2	3	3	0	1.47	1.7	0.23	0	0	0	0	0	0	0	0
2/3/2025 11:26	46001	BERW_T1	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
2/3/2025 11:26	57601	RUTH_T2	0	38	38	0	0.11	0.11	0	0	0	0	0	0	0	0
2/3/2025 11:26	57104	SPHI_T2	3	3	0	4.53	3.1	-1.43	0	0	0	0	0	0	0	0
2/3/2025 11:26	46204	DANV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/3/2025 11:26	57103	SPHI_T2	0	0	0	0	0	0	-0.85	-0.86	1	1	0	600	600	0
2/3/2025 11:26	57602	RUTH_T2	0	0	0	0	0	0	-3.32	-3.18	0	0	0	0	0	0
2/3/2025 11:26	44301	BEAV_T2	0	1	1	0	0.2	0.2	-0.06	0.17	2	2	0	1500	1500	0
2/3/2025 11:27	16102	BING_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/3/2025 11:27	46001	BERW_T1	0	0	0	0	0	0	-0.28	-0.29	0	0	0	0	0	0
2/3/2025 11:27	61306	EARL_T1	0	0	0	0	0	0	-1.28	-1.28	0	0	0	0	0	0
2/3/2025 11:27	61305	EARL_T1	0	1	1	0	0	0	0.38	0.37	1	1	0	900	900	0
2/3/2025 11:27	53601	DALM_T2	1	1	0	1	1.2	0.2	-0.97	-0.96	1	1	0	900	900	0
2/3/2025 11:27	40201	BEGA_T2	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/3/2025 11:27	16103	BING_T2	1	0	-1	9.5	0	-9.5	0	0	0	0	0	0	0	0
2/3/2025 11:28	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:28	53601	DALM_T2	1	1	0	1	1.2	0.2	-0.97	-0.96	1	1	0	900	900	0
2/3/2025 11:28	46206	DANV_T2	0	0	0	0	0	0	-0.44	-0.38	1	1	0	1200	1200	0
2/3/2025 11:28	61305	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:28	46204	DANV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/3/2025 11:29	40101	HUNT_T2	204	261	57	0.73	0.66	-0.07	0	0	0	0	0	0	0	0
2/3/2025 11:29	45801	HEGI_T1	0	0	0	0	0	0	-0.68	-0.72	1	1	0	900	900	0
2/3/2025 11:30	51401	LYKE_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
2/3/2025 11:30	57601	RUTH_T2	0	38	38	0	0.11	0.11	0	0	0	0	0	0	0	0
2/3/2025 11:31	12002	HATF_T1	0	0	0	0	0	0	-1	-0.98	1	1	0	1200	1200	0
2/3/2025 11:31	44301	BEAV_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/3/2025 11:31	12006	HATF_T1	2	2	0	0.45	0.4	-0.05	0.6	0.56	1	1	0	1200	1200	0
2/3/2025 11:31	12001	HATF_T1	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/3/2025 11:31	55105	WERT_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	900	900	0
2/3/2025 11:32	52004	LING_T2	2	2	0	5.05	5	-0.05	0.1	0.1	0	0	0	0	0	0
2/3/2025 11:33	52004	LING_T2	2	2	0	5.05	5	-0.05	0.1	0.1	0	0	0	0	0	0
2/3/2025 11:33	51401	LYKE_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
2/3/2025 11:33	40101	HUNT_T2	202	260	58	0.66	0.7	0.04	-0.4	-0.39	0	0	0	0	0	0
2/3/2025 11:35	66901	SHIL_T2	0	0	0	0	0	0	-1.52	-1.51	1	1	0	1200	1200	0
2/3/2025 11:40	66903	SHIL_T2	0	0	0	0	0	0	-1.23	-1.13	0	0	0	0	0	0
2/3/2025 11:45	24204	PROV_T3	1	1	0	6.8	6.7	-0.1	0	0	0	0	0	0	0	0
2/3/2025 11:45	40101	HUNT_T2	255	193	-62	0.7	0.65	-0.05	-0.39	-0.39	0	0	0	0	0	0
2/3/2025 11:45	24201	PROV_T3	5	4	-1	3.98	6.2	2.22	-1.39	-1.4	1	1	0	1200	1200	0
2/3/2025 11:46	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:46	52403	GRPA_T2	4	4	0	0.93	0.2	-0.73	0	0	0	0	0	0	0	0
2/3/2025 11:46	52402	GRPA_T2	5	8	3	0.36	0.4	0.04	0	0	0	0	0	0	0	0
2/3/2025 11:46	64101	REFR_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
2/3/2025 11:46	52404	GRPA_T2	0	0	0	0	0	0	-0.64	-0.6	0	0	0	0	0	0
2/3/2025 11:48	40601	PIGR_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
2/3/2025 11:48	52403	GRPA_T2	4	4	0	0.93	0.2	-0.73	0	0	0	0	0	0	0	0
2/3/2025 11:48	52401	GRPA_T2	0	1	1	0	0	0	-0.64	-0.69	0	0	0	0	0	0
2/3/2025 11:48	52402	GRPA_T2	5	8	3	0.36	0.4	0.04	0	0	0	0	0	0	0	0
2/3/2025 11:49	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:49	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/3/2025 11:49	52404	GRPA_T2	0	0	0	0	0	0	-0.64	-0.6	0	0	0	0	0	0
2/3/2025 11:49	52402	GRPA_T2	5	8	3	0.36	0.4	0.04	0	0	0	0	0	0	0	0
2/3/2025 11:49	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:49	52403	GRPA_T2	4	4	0	0.93	0.2	-0.73	0	0	0	0	0	0	0	0
2/3/2025 11:50	40602	PIGR_T1	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
2/3/2025 11:51	43304	WATS_T2	0	0	0	0	0	0	-1.04	-1.11	0	0	0	0	0	0
2/3/2025 11:51	40601	PIGR_T1	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
2/3/2025 11:53	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:54	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:58	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 11:59	61505	EPET_T1	0	0	0	0	0	0	0.32	0.36	0	0	0	0	0	0
2/3/2025 12:00	63501	HEID_TBK1-2	1	0	-1	0.1	0	-0.1	0.07	0.07	1	1	0	900	900	0
2/3/2025 12:01	61504	EPET_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
2/3/2025 12:01	12602	MACA_T1	39	37	-2	0.28	0.22	-0.06	0	0	0	0	0	0	0	0
2/3/2025 12:01	63501	HEID_TBK1-2	1	0	-1	0.1	0	-0.1	0.07	0.07	1	1	0	900	900	0
2/3/2025 12:02	63501	HEID_TBK1-2	1	0	-1	0.1	0	-0.1	0.07	0.07	1	1	0	900	900	0
2/3/2025 12:03	63501	HEID_TBK1-2	1	0	-1	0.1	0	-0.1	0.07	0.07	1	1	0	900	900	0
2/3/2025 12:05	12602	MACA_T1	39	37	-2	0.28	0.22	-0.06	0	0	0	0	0	0	0	0
2/3/2025 12:07	66203	SISP_T2	0	0	0	0	0	0	-1.02	-0.97	2	2	0	1800	1800	0
2/3/2025 12:08	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 12:09	60801	BUCK_T1	1	25	24	0.1	0.28	0.18	-0.81	-0.84	1	1	0	600	600	0
2/3/2025 12:09	43301	WATS_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
2/3/2025 12:09	60803	BUCK_T1	0	9	9	0	0.21	0.21	0	0	0	0	0	0	0	0
2/3/2025 12:10	60801	BUCK_T1	1	25	24	0.1	0.28	0.18	-0.81	-0.84	1	1	0	600	600	0
2/3/2025 12:10	60803	BUCK_T1	0	9	9	0	0.21	0.21	0	0	0	0	0	0	0	0
2/3/2025 12:11	60803	BUCK_T1	0	9	9	0	0.21	0.21	0	0	0	0	0	0	0	0
2/3/2025 12:11	60801	BUCK_T1	1	25	24	0.1	0.28	0.18	-1.62	-1.68	2	2	0	1200	1200	0
2/3/2025 12:12	45501	DERR_T2	0	0	0	0	0	0	0.38	0.23	2	2	0	1800	1800	0
2/3/2025 12:13	61304	EARL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/3/2025 12:13	61302	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/3/2025 12:13	61301	EARL_T1	0	0	0	0	0	0	-0.42	-0.42	1	1	0	900	900	0
2/3/2025 12:13	10801	CHHI_T1	0	0	0	0	0	0	-2.06	-2.01	3	3	0	2100	2100	0
2/3/2025 12:13	45501	DERR_T2	0	0	0	0	0	0	0.38	0.23	2	2	0	1800	1800	0
2/3/2025 12:14	60803	BUCK_T1	0	9	9	0	0.21	0.21	0	0	0	0	0	0	0	0
2/3/2025 12:14	60801	BUCK_T1	1	25	24	0.1	0.28	0.18	-0.81	-0.84	1	1	0	600	600	0
2/3/2025 12:15	61304	EARL_T1	1	1	0	0.4	0.1	-0.3	-0.85	-0.83	1	1	0	600	600	0
2/3/2025 12:15	61302	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/3/2025 12:17	52403	GRPA_T2	1	1	0	0.4	0	-0.4	-0.76	-0.66	0	0	0	0	0	0
2/3/2025 12:17	52402	GRPA_T2	6	4	-2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/3/2025 12:18	64204	KINZ_T1	3	3	0	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
2/3/2025 12:18	64202	KINZ_T1	3	2	-1	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
2/3/2025 12:18	64203	KINZ_T1	4	0	-4	0.38	0	-0.38	-0.38	-0.56	2	2	0	1800	1800	0
2/3/2025 12:19	67103	SPRI_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
2/3/2025 12:24	60201	ATGL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/3/2025 12:26	60201	ATGL_T2	1	0	-1	0.3	0	-0.3	-0.09	-0.04	0	0	0	0	0	0
2/3/2025 12:27	60201	ATGL_T2	1	0	-1	0.3	0	-0.3	-0.09	-0.04	0	0	0	0	0	0
2/3/2025 12:28	53501	EVIL_T2	2	2	0	0.95	0.95	0	-1.4	-1.2	2	2	0	1200	1200	0
2/3/2025 12:28	40101	HUNT_T2	160	218	58	0.68	0.68	0	-0.43	-0.47	0	0	0	0	0	0
2/3/2025 12:32	40101	HUNT_T2	207	192	-15	0.73	0.68	-0.05	-0.43	-0.47	0	0	0	0	0	0
2/3/2025 12:33	52403	GRPA_T2	1	1	0	0.3	0	-0.3	-0.66	-0.74	0	0	0	0	0	0
2/3/2025 12:33	52402	GRPA_T2	2	12	10	0.35	0.5	0.15	0	0	0	0	0	0	0	0
2/3/2025 12:36	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/3/2025 12:37	64904	MILL_T1	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
2/3/2025 12:48	15602	NSTR_T2	0	1	1	0	0	0	0.18	0.15	0	0	0	0	0	0
2/3/2025 12:49	15603	NSTR_T2	0	0	0	0	0	0	-1.13	-1.13	0	0	0	0	0	0
2/3/2025 12:49	15602	NSTR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 12:49	55002	NEWP_T1	1	2	1	0.8	0.45	-0.35	-0.2	-0.23	0	0	0	0	0	0
2/3/2025 12:50	55001	NEWP_T1	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
2/3/2025 12:50	43202	MVIL_T2	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
2/3/2025 12:50	43201	MVIL_T2	0	0	0	0	0	0	-1.29	-0.32	0	0	0	0	0	0
2/3/2025 12:50	55002	NEWP_T1	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
2/3/2025 12:52	55001	NEWP_T1	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
2/3/2025 12:52	55002	NEWP_T1	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
2/3/2025 12:56	43304	WATS_T2	0	0	0	0	0	0	-1.05	-1.04	0	0	0	0	0	0
2/3/2025 12:59	52403	GRPA_T2	0	2	2	0	0	0	-0.71	-0.68	0	0	0	0	0	0
2/3/2025 12:59	52402	GRPA_T2	4	10	6	0.35	0.5	0.15	0	0	0	0	0	0	0	0
2/3/2025 13:05	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 13:09	51004	NHAR_T1	2	2	0	6	5.9	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/3/2025 13:09	51002	NHAR_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
2/3/2025 13:09	51003	NHAR_T1	1	3	2	7	6.8	-0.2	0	0	0	0	0	0	0	0
2/3/2025 13:09	16302	ALPA_T2	0	0	0	0	0	0	-1.43	-1.46	0	0	0	0	0	0
2/3/2025 13:10	59101	WALK_T2	0	0	0	0	0	0	2.05	1.17	0	0	0	0	0	0
2/3/2025 13:11	10805	CHHI_T2	1	1	0	7.7	7.4	-0.3	-1.88	-1.71	2	2	0	1800	1800	0
2/3/2025 13:11	59101	WALK_T2	0	0	0	0	0	0	2.05	1.17	0	0	0	0	0	0
2/3/2025 13:11	16302	ALPA_T2	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
2/3/2025 13:13	16302	ALPA_T2	0	0	0	0	0	0	-1.43	-1.46	0	0	0	0	0	0
2/3/2025 13:17	14601	SWHI_T1	0	0	0	0	0	0	-1.39	-1.41	0	0	0	0	0	0
2/3/2025 13:17	14602	SWHI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 13:20	67001	STHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/3/2025 13:20	67002	STHI_T2	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
2/3/2025 13:21	67002	STHI_T2	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
2/3/2025 13:21	67001	STHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/3/2025 13:21	57205	ROSS_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	900	900	0
2/3/2025 13:22	67001	STHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/3/2025 13:22	67002	STHI_T2	0	0	0	0	0	0	1.22	1.17	0	0	0	0	0	0
2/3/2025 13:23	67002	STHI_T2	0	0	0	0	0	0	0.61	0.59	0	0	0	0	0	0
2/3/2025 13:23	67001	STHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/3/2025 13:27	10801	CHHI_T1	1	0	-1	0.1	0	-0.1	-2.01	-2.06	3	3	0	2100	2100	0
2/3/2025 13:34	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/3/2025 13:34	52402	GRPA_T2	4	5	1	0.55	0.7	0.15	0	0	0	0	0	0	0	0
2/3/2025 13:34	52403	GRPA_T2	0	17	17	0	0.42	0.42	0	0	0	0	0	0	0	0
2/3/2025 13:42	45501	DERR_T2	0	0	0	0	0	0	0.25	0.23	2	2	0	1800	1800	0
2/3/2025 13:42	45502	DERR_T2	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
2/3/2025 13:42	59101	WALK_T2	0	0	0	0	0	0	1.63	1.67	0	0	0	0	0	0
2/3/2025 13:45	44505	HAMI_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
2/3/2025 13:45	44502	HAMI_T2	1	1	0	3	3.2	0.2	0	0	0	0	0	0	0	0
2/3/2025 13:46	20603	GRWO_T2	0	0	0	0	0	0	-0.57	-0.62	1	1	0	900	900	0
2/3/2025 13:46	20601	GRWO_T2	7	1	-6	1	0.6	-0.4	0	0	0	0	0	0	0	0
2/3/2025 13:47	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 13:47	44502	HAMI_T2	1	1	0	3	3.2	0.2	0	0	0	0	0	0	0	0
2/3/2025 13:52	44502	HAMI_T2	1	1	0	3	3.2	0.2	0	0	0	0	0	0	0	0
2/3/2025 13:52	44505	HAMI_T2	0	0	0	0	0	0	0.19	0.16	0	0	0	0	0	0
2/3/2025 13:57	46001	BERW_T1	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
2/3/2025 13:57	42701	AUGU_T1	1	1	0	1	1.2	0.2	0	0	2	1	-1	1800	600	-1200
2/3/2025 13:57	40701	FFLD_T1	0	11	11	0	0.17	0.17	0	0	0	0	0	0	0	0
2/3/2025 13:57	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 13:57	40702	FFLD_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/3/2025 13:59	14601	SWHI_T1	0	0	0	0	0	0	-1.4	-1.39	0	0	0	0	0	0
2/3/2025 13:59	14602	SWHI_T1	2	2	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
2/3/2025 14:01	40702	FFLD_T1	1	0	-1	0.2	0	-0.2	-1.98	-1.82	1	1	0	1200	1200	0
2/3/2025 14:01	40701	FFLD_T1	11	0	-11	0.17	0	-0.17	0	0	0	0	0	0	0	0
2/3/2025 14:04	43802	SWIL_T1	0	0	0	0	0	0	-0.18	-0.2	1	1	0	600	600	0
2/3/2025 14:04	43801	SWIL_T1	2	2	0	2.7	2.7	0	0	0	0	0	0	0	0	0
2/3/2025 14:04	44901	SCOT_T2	0	0	0	0	0	0	0.01	-0.08	0	0	0	0	0	0
2/3/2025 14:05	13904	SEID_T1	32	33	1	1.38	1.41	0.03	0.35	0.34	0	0	0	0	0	0
2/3/2025 14:06	61001	DONV_T1	0	0	0	0	0	0	-0.23	-0.01	0	0	0	0	0	0
2/3/2025 14:07	13904	SEID_T1	32	33	1	1.38	1.41	0.03	0.34	0.35	0	0	0	0	0	0
2/3/2025 14:07	44902	SCOT_T2	0	0	0	0	0	0	-0.97	-1	0	0	0	0	0	0
2/3/2025 14:08	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 14:08	43304	WATS_T2	0	0	0	0	0	0	-0.56	-0.63	0	0	0	0	0	0
2/3/2025 14:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/3/2025 14:09	29402	BELT_T1	1	1	0	7.1	7.6	0.5	0	0	0	0	0	0	0	0
2/3/2025 14:09	43304	WATS_T2	0	0	0	0	0	0	-0.56	-0.63	0	0	0	0	0	0
2/3/2025 14:10	43304	WATS_T2	0	0	0	0	0	0	-1.12	-1.25	0	0	0	0	0	0
2/3/2025 14:11	11301	EMMA_T1	0	0	0	0	0	0	-0.72	-0.77	0	0	0	0	0	0
2/3/2025 14:15	44505	HAMI_T2	0	0	0	0	0	0	0.16	0.09	0	0	0	0	0	0
2/3/2025 14:15	44502	HAMI_T2	1	1	0	3.1	2.6	-0.5	0	0	0	0	0	0	0	0
2/3/2025 14:18	44201	POIN_T1	0	0	0	0	0	0	-0.75	-1.68	2	2	0	2100	2100	0
2/3/2025 14:19	44201	POIN_T1	0	0	0	0	0	0	-0.75	-1.68	2	2	0	2100	2100	0
2/3/2025 14:21	16902	MECK_T1	146	76	-70	0.37	0.31	-0.06	0.14	0.12	0	0	0	0	0	0
2/3/2025 14:21	16901	MECK_T1	89	56	-33	0.36	0.19	-0.17	0	0	0	0	0	0	0	0
2/3/2025 14:23	13904	SEID_T1	28	33	5	1.87	0.93	-0.94	0	0	0	0	0	0	0	0
2/3/2025 14:23	13905	SEID_T1	0	0	0	0	0	0	-0.96	-0.98	1	1	0	1200	1200	0
2/3/2025 14:32	61001	DONV_T1	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
2/3/2025 14:33	41902	REED_T1	0	0	0	0	0	0	0.25	0.31	1	1	0	900	900	0
2/3/2025 14:34	41902	REED_T1	0	0	0	0	0	0	0.25	0.31	1	1	0	900	900	0
2/3/2025 14:35	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 14:35	14602	SWHI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 14:36	41902	REED_T1	0	0	0	0	0	0	0.31	0.29	1	1	0	900	900	0
2/3/2025 14:37	41902	REED_T1	0	0	0	0	0	0	0.31	0.29	1	1	0	900	900	0
2/3/2025 14:39	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 14:45	61301	EARL_T1	0	0	0	0	0	0	-0.44	-0.44	1	1	0	900	900	0
2/3/2025 14:46	46801	HEPB_T2	6	25	19	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
2/3/2025 14:46	46803	HEPB_T2	0	6	6	0	0.17	0.17	0.24	0.3	0	0	0	0	0	0
2/3/2025 14:53	44301	BEAV_T2	0	0	0	0	0	0	-0.47	-0.47	1	1	0	600	600	0
2/3/2025 14:54	46004	BERW_T2	0	0	0	0	0	0	-0.5	-0.46	0	0	0	0	0	0
2/3/2025 14:54	44301	BEAV_T2	0	0	0	0	0	0	-0.47	-0.47	1	1	0	600	600	0
2/3/2025 14:55	42503	ALTA_T2	0	0	0	0	0	0	-0.15	-0.68	0	0	0	0	0	0
2/3/2025 14:55	13704	SCHN_T2	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
2/3/2025 14:55	60201	ATGL_T2	0	56	56	0	0.19	0.19	-0.21	-0.23	0	0	0	0	0	0
2/3/2025 14:57	42501	ALTA_T2	0	0	0	0	0	0	-1.39	-1.34	1	1	0	600	600	0
2/3/2025 14:57	44301	BEAV_T2	0	0	0	0	0	0	-0.47	-0.47	1	1	0	600	600	0
2/3/2025 14:58	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 15:11	16102	BING_T2	1	10	9	0.1	0.21	0.11	0	0	0	0	0	0	0	0
2/3/2025 15:11	16103	BING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/3/2025 15:12	64101	REFR_T1	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
2/3/2025 15:13	16103	BING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/3/2025 15:13	16102	BING_T2	1	10	9	0.1	0.21	0.11	0	0	0	0	0	0	0	0
2/3/2025 15:15	22602	KIMB_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
2/3/2025 15:19	22602	KIMB_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
2/3/2025 15:20	64903	MILL_T2	0	0	0	0	0	0	-0.77	-0.72	0	0	0	0	0	0
2/3/2025 15:27	16102	BING_T2	5	10	5	0.14	0.23	0.09	0	0	0	0	0	0	0	0
2/3/2025 15:27	16101	BING_T2	0	0	0	0	0	0	0.16	0.07	0	0	0	0	0	0
2/3/2025 15:29	40101	HUNT_T2	19	59	40	0.93	0.63	-0.3	-0.65	-0.36	0	0	0	0	0	0
2/3/2025 16:09	40101	HUNT_T2	35	43	8	0.71	0.52	-0.19	-0.7	-0.6	0	0	0	0	0	0
2/3/2025 16:09	67001	STHI_T2	1	1	0	0.1	0.3	0.2	0.1	0.1	0	0	0	0	0	0
2/3/2025 16:13	61703	ELIZ_T1	0	15	15	0	0.12	0.12	-1.97	-1.94	2	2	0	2100	2100	0
2/3/2025 16:13	61701	ELIZ_T1	1	1	0	5.2	5.6	0.4	0	0	0	0	0	0	0	0
2/3/2025 16:14	61703	ELIZ_T1	0	15	15	0	0.12	0.12	-1.97	-1.94	2	2	0	2100	2100	0
2/3/2025 16:14	61701	ELIZ_T1	1	1	0	5.2	5.6	0.4	0	0	0	0	0	0	0	0
2/3/2025 16:15	11202	ELHE_T2	0	0	0	0	0	0	0.4	0.41	1	1	0	1200	1200	0
2/3/2025 16:15	61703	ELIZ_T1	15	0	-15	0.12	0	-0.12	-3.94	-3.88	4	4	0	4200	4200	0
2/3/2025 16:15	61701	ELIZ_T1	1	1	0	5.6	5.2	-0.4	0	0	0	0	0	0	0	0
2/3/2025 16:16	61701	ELIZ_T1	1	1	0	5.6	5.2	-0.4	0	0	0	0	0	0	0	0
2/3/2025 16:16	61703	ELIZ_T1	15	0	-15	0.12	0	-0.12	-1.97	-1.94	2	2	0	2100	2100	0
2/3/2025 16:17	46101	MACI_T2	0	0	0	0	0	0	0.05	0.15	1	1	0	1200	1200	0
2/3/2025 16:23	13704	SCHN_T2	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
2/3/2025 16:23	58201	NEWV_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/3/2025 16:23	58202	NEWV_T1	0	0	0	0	0	0	0.01	0.06	0	0	0	0	0	0
2/3/2025 16:24	63501	HEID_TBK1-2	1	2	1	0.1	0.1	0	-0.54	-0.52	1	1	0	900	900	0
2/3/2025 16:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 16:34	44201	POIN_T1	32	25	-7	0.13	0.12	-0.01	-2.02	-2.05	2	2	0	2100	2100	0
2/3/2025 16:36	61306	EARL_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
2/3/2025 16:36	56501	ROCK_T2	2	2	0	1.6	1.95	0.35	-2.17	-2.17	0	0	0	0	0	0
2/3/2025 16:36	44201	POIN_T1	32	25	-7	0.13	0.12	-0.01	-6.16	-6.09	6	6	0	6300	6300	0
2/3/2025 16:37	55101	WERT_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
2/3/2025 16:37	16503	STRO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 16:37	16504	STRO_T1	0	0	0	0	0	0	-0.71	-0.72	1	1	0	1200	1200	0
2/3/2025 16:37	61306	EARL_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
2/3/2025 16:37	55105	WERT_T1	0	0	0	0	0	0	-0.6	-0.58	1	1	0	900	900	0
2/3/2025 16:38	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 16:38	44201	POIN_T1	32	25	-7	0.13	0.12	-0.01	-2.05	-2.03	2	2	0	2100	2100	0
2/3/2025 18:19	57602	RUTH_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
2/3/2025 19:15	55002	NEWP_T1	2	4	2	0.85	0.68	-0.17	0	0	0	0	0	0	0	0
2/3/2025 19:15	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	-0.89	-0.89	1	1	0	600	600	0
2/3/2025 19:16	66903	SHIL_T2	0	0	0	0	0	0	-1.24	-1.25	0	0	0	0	0	0
2/3/2025 19:16	67103	SPRI_T1	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
2/3/2025 19:17	51604	DUKE_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/3/2025 19:17	66903	SHIL_T2	0	0	0	0	0	0	-1.24	-1.25	0	0	0	0	0	0
2/3/2025 19:17	67106	SPRI_T2	0	0	0	0	0	0	-1.9	-1.91	1	1	0	900	900	0
2/3/2025 19:17	66902	SHIL_T2	0	0	0	0	0	0	-1.99	-2	0	0	0	0	0	0
2/3/2025 19:18	65004	NEFF_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
2/3/2025 19:18	15603	NSTR_T2	0	0	0	0	0	0	-1.16	-1.18	0	0	0	0	0	0
2/3/2025 19:19	60301	TWVA_T2	0	0	0	0	0	0	-3.26	-3.29	2	2	0	1800	1800	0
2/3/2025 19:19	13303	ORVI_T1	0	0	0	0	0	0	0.92	0.92	0	0	0	0	0	0
2/3/2025 19:20	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
2/3/2025 19:20	18802	NCOO_T1	0	0	0	0	0	0	-0.5	-0.51	1	1	0	600	600	0
2/3/2025 19:21	13806	SALI_T1	0	0	0	0	0	0	0.02	-0.05	1	1	0	1200	1200	0
2/3/2025 19:21	67106	SPRI_T2	0	0	0	0	0	0	-3.82	-3.84	2	2	0	1800	1800	0
2/3/2025 19:21	60801	BUCK_T1	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
2/3/2025 19:22	16901	MECK_T1	42	35	-7	0.18	0.18	0	0	0	0	0	0	0	0	0
2/3/2025 19:22	67002	STHI_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
2/3/2025 19:22	16902	MECK_T1	81	106	25	0.29	0.33	0.04	0.15	0.15	0	0	0	0	0	0
2/3/2025 19:22	60801	BUCK_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
2/3/2025 19:22	66903	SHIL_T2	0	0	0	0	0	0	-1.25	-1.27	0	0	0	0	0	0
2/3/2025 19:22	48302	ORWI_T2	2	2	0	0.6	0.5	-0.1	-0.65	-0.64	0	0	0	0	0	0
2/3/2025 19:22	56501	ROCK_T2	3	3	0	1.37	1.5	0.13	-0.98	-0.97	0	0	0	0	0	0
2/3/2025 19:22	65207	PRIN_T4	2	3	1	2.2	0.8	-1.4	0	0	0	0	0	0	0	0
2/3/2025 19:22	64903	MILL_T2	0	0	0	0	0	0	-0.62	-0.68	0	0	0	0	0	0
2/3/2025 19:22	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/3/2025 19:22	67106	SPRI_T2	0	0	0	0	0	0	-1.91	-1.92	1	1	0	900	900	0
2/3/2025 19:22	67103	SPRI_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
2/3/2025 19:23	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
2/3/2025 19:23	16102	BING_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
2/3/2025 19:23	61306	EARL_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
2/3/2025 19:23	13904	SEID_T1	40	40	0	1.71	1.34	-0.37	0.41	0.41	0	0	0	0	0	0
2/3/2025 19:23	66901	SHIL_T2	0	0	0	0	0	0	-1.68	-1.67	1	1	0	1200	1200	0
2/3/2025 19:23	10805	CHHI_T2	13	13	0	2.74	1.87	-0.87	-1.04	-1.22	1	1	0	600	600	0
2/3/2025 19:23	15202	SFAR_T1	0	0	0	0	0	0	-0.84	-0.83	1	1	0	1200	1200	0
2/3/2025 19:23	67103	SPRI_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
2/3/2025 19:23	44201	POIN_T1	159	170	11	0.41	0.39	-0.02	-2.09	-2.08	2	2	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/3/2025 19:23	11202	ELHE_T2	0	0	0	0	0	0	0.43	0.42	1	1	0	1200	1200	0
2/3/2025 19:23	13803	SALI_T1	0	0	0	0	0	0	0.19	0.3	4	4	0	4800	4800	0
2/3/2025 19:23	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:23	13806	SALI_T1	0	0	0	0	0	0	0.02	-0.05	1	1	0	1200	1200	0
2/3/2025 19:23	16302	ALPA_T2	0	0	0	0	0	0	-0.64	-0.67	0	0	0	0	0	0
2/3/2025 19:23	67002	STHI_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
2/3/2025 19:24	67103	SPRI_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
2/3/2025 19:24	67002	STHI_T2	0	0	0	0	0	0	1.06	1.08	0	0	0	0	0	0
2/3/2025 19:24	51004	NHAR_T1	2	2	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
2/3/2025 19:24	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/3/2025 19:24	51003	NHAR_T1	6	1	-5	1.98	7.1	5.12	0	0	0	0	0	0	0	0
2/3/2025 19:24	66902	SHIL_T2	0	0	0	0	0	0	-5.99	-5.97	0	0	0	0	0	0
2/3/2025 19:24	57601	RUTH_T2	0	0	0	0	0	0	-1.5	-1.51	0	0	0	0	0	0
2/3/2025 19:24	44201	POIN_T1	159	170	11	0.41	0.39	-0.02	-2.09	-2.08	2	2	0	2100	2100	0
2/3/2025 19:24	66203	SISP_T2	0	1	1	0	0	0	-1.33	-1.23	2	2	0	1800	1800	0
2/3/2025 19:24	29402	BELT_T1	8	7	-1	1.85	4.15	2.3	0	0	0	0	0	0	0	0
2/3/2025 19:24	65802	RTWN_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
2/3/2025 19:24	66903	SHIL_T2	0	0	0	0	0	0	-1.25	-1.27	0	0	0	0	0	0
2/3/2025 19:24	51002	NHAR_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/3/2025 19:24	57602	RUTH_T2	0	0	0	0	0	0	-0.75	-0.79	0	0	0	0	0	0
2/3/2025 19:24	51006	NHAR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/3/2025 19:25	16101	BING_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
2/3/2025 19:25	13905	SEID_T1	0	0	0	0	0	0	-0.93	-0.96	1	1	0	1200	1200	0
2/3/2025 19:25	57104	SPHI_T2	1	3	2	3.1	2.6	-0.5	0	0	0	0	0	0	0	0
2/3/2025 19:25	13904	SEID_T1	40	40	0	1.71	1.34	-0.37	0	0	0	0	0	0	0	0
2/3/2025 19:25	57103	SPHI_T2	0	0	0	0	0	0	-0.92	-0.9	1	1	0	600	600	0
2/3/2025 19:25	12002	HATF_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
2/3/2025 19:25	11301	EMMA_T1	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
2/3/2025 19:25	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:25	60801	BUCK_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
2/3/2025 19:25	16302	ALPA_T2	0	0	0	0	0	0	-1.28	-1.35	0	0	0	0	0	0
2/3/2025 19:25	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:25	41902	REED_T1	1	0	-1	0.1	0	-0.1	0.2	0.22	1	1	0	900	900	0
2/3/2025 19:25	40601	PIGR_T1	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/3/2025 19:25	22602	KIMB_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
2/3/2025 19:25	57106	SPHI_T2	3	3	0	1.13	1.2	0.07	0	0	0	0	0	0	0	0
2/3/2025 19:25	16102	BING_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
2/3/2025 19:26	24201	PROV_T3	3	3	0	6.2	5.93	-0.27	-1.41	-1.38	1	1	0	1200	1200	0
2/3/2025 19:26	24204	PROV_T3	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
2/3/2025 19:26	60201	ATGL_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
2/3/2025 19:26	42501	ALTA_T2	0	0	0	0	0	0	-1.36	-1.4	1	1	0	600	600	0
2/3/2025 19:26	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:26	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:26	15602	NSTR_T2	0	0	0	0	0	0	-0.79	-0.92	0	0	0	0	0	0
2/3/2025 19:26	51002	NHAR_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/3/2025 19:26	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:26	51004	NHAR_T1	2	2	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
2/3/2025 19:26	44502	HAMI_T2	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
2/3/2025 19:26	51003	NHAR_T1	6	1	-5	1.98	7.1	5.12	0	0	0	0	0	0	0	0
2/3/2025 19:26	41902	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/3/2025 19:26	63501	HEID_TBK1-2	35	32	-3	0.21	0.15	-0.06	0	0	0	0	0	0	0	0
2/3/2025 19:26	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:26	40601	PIGR_T1	1	3	2	0.1	0.1	0	-0.17	-0.16	0	0	0	0	0	0
2/3/2025 19:26	51006	NHAR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/3/2025 19:27	16302	ALPA_T2	0	0	0	0	0	0	-0.64	-0.67	0	0	0	0	0	0
2/3/2025 19:27	44901	SCOT_T2	0	0	0	0	0	0	-0.16	-0.09	0	0	0	0	0	0
2/3/2025 19:27	46206	DANV_T2	0	0	0	0	0	0	0.2	0.2	2	2	0	2100	2100	0
2/3/2025 19:27	65205	PRIN_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
2/3/2025 19:27	46004	BERW_T2	2	3	1	0.4	0.4	0	-0.52	-0.58	0	0	0	0	0	0
2/3/2025 19:27	13803	SALI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:27	63501	HEID_TBK1-2	35	32	-3	0.21	0.15	-0.06	-0.58	-0.6	1	1	0	900	900	0
2/3/2025 19:27	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:27	46001	BERW_T1	0	0	0	0	0	0	0.72	0.69	0	0	0	0	0	0
2/3/2025 19:27	40201	BEGA_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
2/3/2025 19:27	56501	ROCK_T2	3	3	0	1.37	1.5	0.13	-0.98	-0.97	0	0	0	0	0	0
2/3/2025 19:27	22602	KIMB_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
2/3/2025 19:27	41902	REED_T1	1	0	-1	0.1	0	-0.1	0.2	0.22	1	1	0	900	900	0
2/3/2025 19:27	65202	PRIN_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/3/2025 19:27	15203	SFAR_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/3/2025 19:27	13806	SALI_T1	0	0	0	0	0	0	0.02	-0.05	1	1	0	1200	1200	0
2/3/2025 19:27	42201	SHEN_T2	0	0	0	0	0	0	-0.17	-0.14	1	1	0	600	600	0
2/3/2025 19:27	40101	HUNT_T2	52	108	56	0.83	0.91	0.08	-2.37	-2.08	0	0	0	0	0	0
2/3/2025 19:28	53501	EVIL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/3/2025 19:28	52402	GRPA_T2	0	7	7	0	0.3	0.3	0	0	0	0	0	0	0	0
2/3/2025 19:28	66902	SHIL_T2	0	0	0	0	0	0	-2	-1.99	0	0	0	0	0	0
2/3/2025 19:28	65802	RTWN_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
2/3/2025 19:28	61703	ELIZ_T1	0	0	0	0	0	0	-1.89	-1.91	2	2	0	2100	2100	0
2/3/2025 19:28	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/3/2025 19:28	67106	SPRI_T2	0	0	0	0	0	0	-1.91	-1.92	1	1	0	900	900	0
2/3/2025 19:28	43304	WATS_T2	2	1	-1	0.2	0	-0.2	-0.56	-0.6	0	0	0	0	0	0
2/3/2025 19:28	40101	HUNT_T2	52	108	56	0.83	0.91	0.08	-1.58	-1.39	0	0	0	0	0	0
2/3/2025 19:28	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:28	26302	OLFO_T2	1	0	-1	0.3	0	-0.3	-0.13	-0.15	2	2	0	1500	1500	0
2/3/2025 19:28	40703	FELD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:28	60201	ATGL_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
2/3/2025 19:28	52403	GRPA_T2	4	2	-2	0.68	0.4	-0.28	0	0	0	0	0	0	0	0
2/3/2025 19:28	61701	ELIZ_T1	1	1	0	4.6	4.9	0.3	0	0	0	0	0	0	0	0
2/3/2025 19:28	45501	DERR_T2	0	1	1	0	0	0	1.4	1.29	6	6	0	5400	5400	0
2/3/2025 19:28	45502	DERR_T2	2	2	0	1.05	0.4	-0.65	0	0	0	0	0	0	0	0
2/3/2025 19:28	55101	WERT_T1	0	0	0	0	0	0	-1.9	-1.91	2	2	0	1500	1500	0
2/3/2025 19:28	40201	BEGA_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
2/3/2025 19:28	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	-0.25	-0.3	0	0	0	0	0	0
2/3/2025 19:28	42503	ALTA_T2	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
2/3/2025 19:28	57602	RUTH_T2	0	0	0	0	0	0	-0.75	-0.79	0	0	0	0	0	0
2/3/2025 19:28	48602	POCA_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
2/3/2025 19:28	57205	ROSS_T1	0	0	0	0	0	0	-0.88	-0.87	1	1	0	900	900	0
2/3/2025 19:29	43304	WATS_T2	2	1	-1	0.2	0	-0.2	-0.56	-0.6	0	0	0	0	0	0
2/3/2025 19:29	16102	BING_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
2/3/2025 19:29	46803	HEPB_T2	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
2/3/2025 19:29	46206	DANV_T2	0	0	0	0	0	0	0.2	0.2	2	2	0	2100	2100	0
2/3/2025 19:29	13803	SALI_T1	0	0	0	0	0	0	0.1	0.15	2	2	0	2400	2400	0
2/3/2025 19:29	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:29	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:29	52001	LING_T1	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
2/3/2025 19:29	51006	NHAR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/3/2025 19:29	42701	AUGU_T1	3	3	0	0.17	0.27	0.1	0	0	2	2	0	1800	1800	0
2/3/2025 19:29	57602	RUTH_T2	0	0	0	0	0	0	-0.75	-0.79	0	0	0	0	0	0
2/3/2025 19:29	61701	ELIZ_T1	1	1	0	4.6	4.9	0.3	0	0	0	0	0	0	0	0
2/3/2025 19:29	53502	EVIL_T2	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
2/3/2025 19:29	51004	NHAR_T1	2	2	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
2/3/2025 19:29	61301	EARL_T1	0	0	0	0	0	0	-0.94	-0.98	2	2	0	1800	1800	0
2/3/2025 19:29	61703	ELIZ_T1	0	0	0	0	0	0	-1.89	-1.91	2	2	0	2100	2100	0
2/3/2025 19:29	42201	SHEN_T2	0	0	0	0	0	0	-0.34	-0.28	2	2	0	1200	1200	0
2/3/2025 19:29	66901	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:29	46001	BERW_T1	0	0	0	0	0	0	0.72	0.69	0	0	0	0	0	0
2/3/2025 19:29	13704	SCHN_T2	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
2/3/2025 19:29	13806	SALI_T1	0	0	0	0	0	0	0.02	-0.05	1	1	0	1200	1200	0
2/3/2025 19:29	14601	SWHI_T1	0	0	0	0	0	0	-2.82	-2.88	0	0	0	0	0	0
2/3/2025 19:29	51003	NHAR_T1	6	1	-5	1.98	7.1	5.12	0	0	0	0	0	0	0	0
2/3/2025 19:29	51002	NHAR_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/3/2025 19:29	10801	CHHI_T1	0	0	0	0	0	0	-4.24	-4.2	6	6	0	4200	4200	0
2/3/2025 19:29	46801	HEPB_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/3/2025 19:29	59101	WALK_T2	0	0	0	0	0	0	0.52	0.5	1	1	0	600	600	0
2/3/2025 19:29	53501	EVIL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/3/2025 19:29	12006	HATF_T1	0	0	0	0	0	0	-0.23	-0.18	1	1	0	1200	1200	0
2/3/2025 19:29	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:30	60801	BUCK_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
2/3/2025 19:30	43304	WATS_T2	1	0	-1	0.4	0	-0.4	-0.56	-0.6	0	0	0	0	0	0
2/3/2025 19:30	52402	GRPA_T2	2	7	5	0.15	0.4	0.25	0	0	0	0	0	0	0	0
2/3/2025 19:30	61701	ELIZ_T1	1	1	0	4.9	4.7	-0.2	0	0	0	0	0	0	0	0
2/3/2025 19:30	53601	DALM_T2	1	1	0	0.2	0.7	0.5	-0.17	-0.23	0	0	0	0	0	0
2/3/2025 19:30	52403	GRPA_T2	2	3	1	0.45	0.1	-0.35	-1.11	-1.16	0	0	0	0	0	0
2/3/2025 19:30	20601	GRWO_T2	1	1	0	2.3	1.4	-0.9	0	0	0	0	0	0	0	0
2/3/2025 19:30	55101	WERT_T1	0	0	0	0	0	0	-1.9	-1.91	2	2	0	1500	1500	0
2/3/2025 19:30	44901	SCOT_T2	0	0	0	0	0	0	-0.96	-0.96	0	0	0	0	0	0
2/3/2025 19:30	57601	RUTH_T2	0	0	0	0	0	0	-1.5	-1.51	0	0	0	0	0	0
2/3/2025 19:30	46001	BERW_T1	0	0	0	0	0	0	0.72	0.69	0	0	0	0	0	0
2/3/2025 19:30	51004	NHAR_T1	2	2	0	6	5.95	-0.05	0	0	0	0	0	0	0	0
2/3/2025 19:30	59101	WALK_T2	0	0	0	0	0	0	0.52	0.5	1	1	0	600	600	0
2/3/2025 19:30	41902	REED_T1	0	0	0	0	0	0	0.2	0.22	1	1	0	900	900	0
2/3/2025 19:30	65003	NEFF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:30	46101	MACI_T2	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
2/3/2025 19:30	51003	NHAR_T1	1	1	0	7.3	7.1	-0.2	0	0	0	0	0	0	0	0
2/3/2025 19:30	57602	RUTH_T2	0	0	0	0	0	0	-0.75	-0.79	0	0	0	0	0	0
2/3/2025 19:30	20603	GRWO_T2	3	7	4	0.5	0.2	-0.3	0.47	0.47	0	0	0	0	0	0
2/3/2025 19:30	51002	NHAR_T1	1	0	-1	1	0.9	-0.1	0	0	0	0	0	0	0	0
2/3/2025 19:30	61703	ELIZ_T1	0	0	0	0	0	0	-1.89	-1.91	2	2	0	2100	2100	0
2/3/2025 19:30	43301	WATS_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
2/3/2025 19:31	44301	BEAV_T2	0	0	0	0	0	0	-0.2	-0.18	1	1	0	600	600	0
2/3/2025 19:31	42802	SELI_T1	0	0	0	0	0	0	-1.44	-1.45	1	1	0	900	900	0
2/3/2025 19:31	14102	TRUM_T2	1	1	0	4.8	4.8	0	-0.9	-0.94	3	3	0	2400	2400	0
2/3/2025 19:31	44502	HAMI_T2	1	1	0	2.8	3.2	0.4	0	0	0	0	0	0	0	0
2/3/2025 19:31	56501	ROCK_T2	2	3	1	1.95	1.5	-0.45	-0.98	-0.97	0	0	0	0	0	0
2/3/2025 19:31	55101	WERT_T1	0	0	0	0	0	0	-1.9	-1.91	2	2	0	1500	1500	0
2/3/2025 19:31	40601	PIGR_T1	3	0	-3	0.1	0	-0.1	-0.17	-0.16	0	0	0	0	0	0
2/3/2025 19:31	16302	ALPA_T2	0	0	0	0	0	0	-0.64	-0.67	0	0	0	0	0	0
2/3/2025 19:31	43202	MVIL_T2	3	4	1	1.8	0.87	-0.93	0	0	0	0	0	0	0	0
2/3/2025 19:31	14103	TRUM_T2	6	6	0	0.75	0.58	-0.17	0	0	0	0	0	0	0	0
2/3/2025 19:31	66903	SHIL_T2	0	0	0	0	0	0	-3.75	-3.81	0	0	0	0	0	0
2/3/2025 19:31	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/3/2025 19:31	12602	MACA_T1	47	55	8	0.28	0.34	0.06	0	0	0	0	0	0	0	0
2/3/2025 19:31	44505	HAMI_T2	0	0	0	0	0	0	0.22	0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/3/2025 19:31	45801	HEGI_T1	0	0	0	0	0	0	-0.34	-0.3	1	1	0	900	900	0
2/3/2025 19:31	40702	FFLD_T1	0	0	0	0	0	0	-1.56	-1.65	1	1	0	1200	1200	0
2/3/2025 19:31	52402	GRPA_T2	2	7	5	0.15	0.4	0.25	0	0	0	0	0	0	0	0
2/3/2025 19:31	67002	STHI_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
2/3/2025 19:31	46206	DANV_T2	0	0	0	0	0	0	0.2	0.2	2	2	0	2100	2100	0
2/3/2025 19:31	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:31	43201	MVIL_T2	0	2	2	0	0	0	-0.36	-0.37	0	0	0	0	0	0
2/3/2025 19:31	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:31	52403	GRPA_T2	2	3	1	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
2/3/2025 19:31	16102	BING_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/3/2025 19:31	55002	NEWP_T1	2	4	2	0.8	0.83	0.03	-0.22	-0.22	0	0	0	0	0	0
2/3/2025 19:31	67402	WAKE_T2	0	0	0	0	0	0	-0.4	-0.4	1	1	0	600	600	0
2/3/2025 19:32	66901	SHIL_T2	0	0	0	0	0	0	-1.68	-1.67	1	1	0	1200	1200	0
2/3/2025 19:32	44502	HAMI_T2	1	1	0	2.8	3.2	0.4	0	0	0	0	0	0	0	0
2/3/2025 19:32	52402	GRPA_T2	2	7	5	0.15	0.4	0.25	0	0	0	0	0	0	0	0
2/3/2025 19:32	46203	DANV_T2	0	0	0	0	0	0	-1.92	-1.92	0	0	0	0	0	0
2/3/2025 19:32	52404	GRPA_T2	0	0	0	0	0	0	-0.25	-0.3	0	0	0	0	0	0
2/3/2025 19:32	44902	SCOT_T2	0	0	0	0	0	0	-0.96	-0.96	0	0	0	0	0	0
2/3/2025 19:32	55002	NEWP_T1	2	4	2	0.8	0.83	0.03	-0.44	-0.44	0	0	0	0	0	0
2/3/2025 19:32	44505	HAMI_T2	0	0	0	0	0	0	0.22	0.01	0	0	0	0	0	0
2/3/2025 19:32	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:32	52403	GRPA_T2	2	3	1	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
2/3/2025 19:32	40101	HUNT_T2	64	125	61	0.91	0.8	-0.11	0	0	0	0	0	0	0	0
2/3/2025 19:33	53502	EVIL_T2	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
2/3/2025 19:33	40601	PIGR_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/3/2025 19:33	53501	EVIL_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
2/3/2025 19:33	41901	REED_T1	0	0	0	0	0	0	-0.55	-0.59	0	0	0	0	0	0
2/3/2025 19:33	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/3/2025 19:33	44505	HAMI_T2	0	0	0	0	0	0	0.22	0.01	0	0	0	0	0	0
2/3/2025 19:33	44201	POIN_T1	133	175	42	0.38	0.38	0	-6.26	-6.23	6	6	0	6300	6300	0
2/3/2025 19:33	56501	ROCK_T2	2	3	1	1.95	1.5	-0.45	-0.98	-0.97	0	0	0	0	0	0
2/3/2025 19:33	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
2/3/2025 19:33	67001	STHI_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
2/3/2025 19:33	46206	DANV_T2	0	0	0	0	0	0	0.2	0.2	2	2	0	2100	2100	0
2/3/2025 19:33	44801	EDAN_T2	1	0	-1	0.1	0	-0.1	-0.92	-0.9	0	0	0	0	0	0
2/3/2025 19:33	44502	HAMI_T2	1	1	0	2.8	3.2	0.4	0	0	0	0	0	0	0	0
2/3/2025 19:33	40602	PIGR_T1	0	1	1	0	0	0	-1.18	0.1	0	0	0	0	0	0
2/3/2025 19:34	40101	HUNT_T2	64	125	61	0.91	0.8	-0.11	-0.79	-0.69	0	0	0	0	0	0
2/3/2025 19:34	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:34	44502	HAMI_T2	1	1	0	2.8	3.2	0.4	0	0	0	0	0	0	0	0
2/3/2025 19:34	53101	WTWN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/3/2025 19:34	42701	AUGU_T1	3	1	-2	0.17	0.6	0.43	0	0	2	2	0	1800	1800	0
2/3/2025 19:34	67106	SPRI_T2	0	0	0	0	0	0	-1.91	-1.92	1	1	0	900	900	0
2/3/2025 19:34	46206	DANV_T2	0	0	0	0	0	0	0.2	0.2	2	2	0	2100	2100	0
2/3/2025 19:34	44201	POIN_T1	133	175	42	0.38	0.38	0	-2.09	-2.08	2	2	0	2100	2100	0
2/3/2025 19:34	42201	SHEN_T2	0	0	0	0	0	0	-0.17	-0.14	1	1	0	600	600	0
2/3/2025 19:34	59101	WALK_T2	0	0	0	0	0	0	0.52	0.5	1	1	0	600	600	0
2/3/2025 19:34	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:34	66902	SHIL_T2	0	0	0	0	0	0	-2	-1.99	0	0	0	0	0	0
2/3/2025 19:34	43304	WATS_T2	1	0	-1	0.4	0	-0.4	-0.56	-0.6	0	0	0	0	0	0
2/3/2025 19:35	52401	GRPA_T2	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
2/3/2025 19:35	43801	SWIL_T1	2	2	0	3.05	3.15	0.1	0	0	0	0	0	0	0	0
2/3/2025 19:35	44901	SCOT_T2	0	0	0	0	0	0	-0.16	-0.09	0	0	0	0	0	0
2/3/2025 19:35	44301	BEAV_T2	0	0	0	0	0	0	-0.2	-0.18	1	1	0	600	600	0
2/3/2025 19:35	45802	HEGI_T2	29	44	15	0.5	0.88	0.38	0	0	0	0	0	0	0	0
2/3/2025 19:35	43802	SWIL_T1	0	0	0	0	0	0	-0.18	-0.14	1	1	0	600	600	0
2/3/2025 19:35	43304	WATS_T2	1	0	-1	0.4	0	-0.4	-0.56	-0.6	0	0	0	0	0	0
2/3/2025 19:35	52402	GRPA_T2	2	7	5	0.15	0.4	0.25	0	0	0	0	0	0	0	0
2/3/2025 19:35	52403	GRPA_T2	2	3	1	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
2/3/2025 19:36	66505	SMAN_T2	1	3	2	0.1	0.73	0.63	0	0	0	0	0	0	0	0
2/3/2025 19:36	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:36	61502	EPET_T1	0	0	0	0	0	0	-1.08	-1.16	0	0	0	0	0	0
2/3/2025 19:36	43304	WATS_T2	1	0	-1	0.4	0	-0.4	-0.6	-1.13	0	0	0	0	0	0
2/3/2025 19:36	66903	SHIL_T2	0	0	0	0	0	0	-1.27	-1.25	0	0	0	0	0	0
2/3/2025 19:36	52403	GRPA_T2	2	3	1	0.45	0.1	-0.35	-1.11	-1.16	0	0	0	0	0	0
2/3/2025 19:36	52402	GRPA_T2	2	7	5	0.15	0.4	0.25	0	0	0	0	0	0	0	0
2/3/2025 19:36	40101	HUNT_T2	64	125	61	0.91	0.8	-0.11	-0.69	-0.76	0	0	0	0	0	0
2/3/2025 19:36	59101	WALK_T2	0	0	0	0	0	0	0.52	0.5	1	1	0	600	600	0
2/3/2025 19:36	52401	GRPA_T2	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
2/3/2025 19:37	13704	SCHN_T2	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
2/3/2025 19:37	63501	HEID_TBK1-2	16	46	30	0.13	0.28	0.15	-0.6	-0.59	1	1	0	900	900	0
2/3/2025 19:37	44301	BEAV_T2	0	0	0	0	0	0	-0.18	-0.41	1	1	0	600	600	0
2/3/2025 19:37	53601	DALM_T2	1	1	0	0.2	0.7	0.5	-0.23	-0.22	0	0	0	0	0	0
2/3/2025 19:37	46203	DANV_T2	0	0	0	0	0	0	-1.92	-1.89	0	0	0	0	0	0
2/3/2025 19:37	41902	REED_T1	0	0	0	0	0	0	0.44	0.39	2	2	0	1800	1800	0
2/3/2025 19:38	61703	ELIZ_T1	0	0	0	0	0	0	-1.91	-1.95	2	2	0	2100	2100	0
2/3/2025 19:38	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:38	65802	RTWN_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
2/3/2025 19:38	52402	GRPA_T2	2	7	5	0.15	0.4	0.25	0	0	0	0	0	0	0	0
2/3/2025 19:38	61701	ELIZ_T1	1	1	0	4.9	4.7	-0.2	0	0	0	0	0	0	0	0
2/3/2025 19:38	52403	GRPA_T2	2	3	1	0.45	0.1	-0.35	-1.16	-1.18	0	0	0	0	0	0
2/3/2025 19:38	57602	RUTH_T2	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
2/3/2025 19:38	67402	WAKE_T2	0	0	0	0	0	0	-0.4	-0.4	1	1	0	600	600	0
2/3/2025 19:38	55002	NEWP_T1	2	4	2	0.8	0.83	0.03	-0.22	-0.23	0	0	0	0	0	0
2/3/2025 19:38	44301	BEAV_T2	0	0	0	0	0	0	-0.18	-0.41	1	1	0	600	600	0
2/3/2025 19:38	41902	REED_T1	0	0	0	0	0	0	0.22	0.2	1	1	0	900	900	0
2/3/2025 19:38	52004	LING_T2	2	2	0	4.55	4.6	0.05	0.08	0.09	0	0	0	0	0	0
2/3/2025 19:38	55101	WERT_T1	0	0	0	0	0	0	-1.91	-1.9	2	2	0	1500	1500	0
2/3/2025 19:38	63501	HEID_TBK1-2	16	46	30	0.13	0.28	0.15	-0.6	-0.59	1	1	0	900	900	0
2/3/2025 19:38	42201	SHEN_T2	0	0	0	0	0	0	-0.14	-0.14	1	1	0	600	600	0
2/3/2025 19:38	59101	WALK_T2	0	0	0	0	0	0	0.5	0.52	1	1	0	600	600	0
2/3/2025 19:39	40101	HUNT_T2	64	125	61	0.91	0.8	-0.11	-0.69	-0.76	0	0	0	0	0	0
2/3/2025 19:39	64203	KINZ_T1	0	0	0	0	0	0	-0.39	-0.41	1	1	0	600	600	0
2/3/2025 19:39	63501	HEID_TBK1-2	16	46	30	0.13	0.28	0.15	-1.2	-1.18	2	2	0	1800	1800	0
2/3/2025 19:39	65003	NEFF_T2	0	0	0	0	0	0	-1.31	-1.34	2	2	0	1800	1800	0
2/3/2025 19:39	41902	REED_T1	0	0	0	0	0	0	0.22	0.2	1	1	0	900	900	0
2/3/2025 19:39	66203	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:39	52402	GRPA_T2	2	7	5	0.15	0.4	0.25	0	0	0	0	0	0	0	0
2/3/2025 19:39	55101	WERT_T1	0	0	0	0	0	0	-3.81	-3.81	4	4	0	3000	3000	0
2/3/2025 19:39	64204	KINZ_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
2/3/2025 19:39	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:39	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:39	52403	GRPA_T2	2	3	1	0.45	0.1	-0.35	-2.32	-2.35	0	0	0	0	0	0
2/3/2025 19:39	64201	KINZ_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/3/2025 19:40	42201	SHEN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:40	57602	RUTH_T2	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
2/3/2025 19:40	52004	LING_T2	2	2	0	4.55	4.6	0.05	0	0	0	0	0	0	0	0
2/3/2025 19:40	52002	LING_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
2/3/2025 19:40	61701	ELIZ_T1	1	1	0	4.9	4.7	-0.2	0	0	0	0	0	0	0	0
2/3/2025 19:40	61703	ELIZ_T1	0	0	0	0	0	0	-1.91	-1.95	2	2	0	2100	2100	0
2/3/2025 19:40	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:40	65703	RVIL_T1	0	0	0	0	0	0	-1.34	-1.34	1	1	0	900	900	0
2/3/2025 19:41	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:41	53501	EVIL_T2	0	2	2	0	0.35	0.35	-0.98	-0.97	1	1	0	600	600	0
2/3/2025 19:41	57201	ROSS_T1	0	0	0	0	0	0	-1.2	-1.37	0	0	0	0	0	0
2/3/2025 19:41	57106	SPHI_T2	3	3	0	1.17	1.27	0.1	0	0	0	0	0	0	0	0
2/3/2025 19:41	57103	SPHI_T2	0	0	0	0	0	0	-0.9	-0.92	1	1	0	600	600	0
2/3/2025 19:41	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
2/3/2025 19:41	66501	MOJO_T1	0	0	0	0	0	0	-2.08	-1.12	2	1	-1	1800	900	-900
2/3/2025 19:41	57104	SPHI_T2	2	2	0	1.7	3.1	1.4	0	0	0	0	0	0	0	0
2/3/2025 19:42	44201	POIN_T1	133	175	42	0.38	0.38	0	-2.08	-2.07	2	2	0	2100	2100	0
2/3/2025 19:42	52402	GRPA_T2	2	7	5	0.15	0.4	0.25	0	0	0	0	0	0	0	0
2/3/2025 19:42	51003	NHAR_T1	1	1	0	7.3	7.1	-0.2	0	0	0	0	0	0	0	0
2/3/2025 19:42	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
2/3/2025 19:42	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:42	51002	NHAR_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
2/3/2025 19:42	61304	EARL_T1	0	0	0	0	0	0	-0.97	-0.98	1	1	0	600	600	0
2/3/2025 19:42	58201	NEWV_T1	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
2/3/2025 19:42	51006	NHAR_T1	0	0	0	0	0	0	-2.73	-2.79	2	2	0	2100	2100	0
2/3/2025 19:42	51004	NHAR_T1	2	2	0	6	5.95	-0.05	0	0	0	0	0	0	0	0
2/3/2025 19:42	52403	GRPA_T2	2	3	1	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
2/3/2025 19:42	57601	RUTH_T2	0	0	0	0	0	0	-1.51	-1.52	0	0	0	0	0	0
2/3/2025 19:42	58202	NEWV_T1	0	0	0	0	0	0	-0.08	-0.13	0	0	0	0	0	0
2/3/2025 19:43	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:43	53501	EVIL_T2	0	2	2	0	0.35	0.35	-0.98	-0.97	1	1	0	600	600	0
2/3/2025 19:43	61701	ELIZ_T1	1	1	0	4.9	4.7	-0.2	0	0	0	0	0	0	0	0
2/3/2025 19:44	57601	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2025 19:45	57602	RUTH_T2	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
2/3/2025 19:45	55105	WERT_T1	0	0	0	0	0	0	-0.47	-0.51	1	1	0	900	900	0
2/3/2025 19:46	55101	WERT_T1	0	0	0	0	0	0	-1.91	-1.9	2	2	0	1500	1500	0
2/3/2025 19:46	55001	NEWP_T1	0	0	0	0	0	0	-0.89	-0.87	1	1	0	600	600	0
2/3/2025 19:46	55002	NEWP_T1	4	4	0	0.68	0.95	0.27	0	0	0	0	0	0	0	0
2/3/2025 19:54	52004	LING_T2	2	2	0	4.55	4.8	0.25	0.09	0.07	0	0	0	0	0	0
2/3/2025 20:05	66901	SHIL_T2	0	0	0	0	0	0	-1.69	-1.7	1	1	0	1200	1200	0
2/3/2025 20:07	13904	SEID_T1	35	43	8	1.08	0.89	-0.19	0.39	0.38	0	0	0	0	0	0
2/3/2025 20:14	40101	HUNT_T2	117	108	-9	0.84	0.88	0.04	-0.8	-0.81	0	0	0	0	0	0
2/3/2025 20:35	66901	SHIL_T2	0	0	0	0	0	0	-1.69	-1.71	1	1	0	1200	1200	0
2/3/2025 21:03	15202	SFAR_T1	0	0	0	0	0	0	-0.88	-0.85	1	1	0	1200	1200	0
2/3/2025 21:29	15202	SFAR_T1	0	0	0	0	0	0	-0.86	-0.9	1	1	0	1200	1200	0
2/4/2025 8:57	13704	SCHN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 8:57	54503	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 8:57	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
2/4/2025 8:57	54504	ENOL_T2	0	0	0	0	0	0	-1.05	-1.05	1	1	0	600	600	0
2/4/2025 8:57	13701	SCHN_T2	0	0	0	0	0	0	-0.02	-0.08	1	1	0	600	600	0
2/4/2025 8:57	40802	EXCH_T2	0	0	0	0	0	0	-0.42	-0.36	0	0	0	0	0	0
2/4/2025 8:57	54502	ENOL_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
2/4/2025 8:58	54502	ENOL_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
2/4/2025 8:58	54503	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 8:58	54504	ENOL_T2	0	0	0	0	0	0	-1.05	-1.05	1	1	0	600	600	0
2/4/2025 8:58	54505	ENOL_T2	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
2/4/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
2/4/2025 9:00	57205	ROSS_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
2/4/2025 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/4/2025 9:00	40802	EXCH_T2	0	0	0	0	0	0	-0.42	-0.36	0	0	0	0	0	0
2/4/2025 9:07	13704	SCHN_T2	0	7	7	0	0.19	0.19	0	0	0	0	0	0	0	0
2/4/2025 9:07	13701	SCHN_T2	0	1	1	0	0.1	0.1	-0.08	-0.08	1	1	0	600	600	0
2/4/2025 9:07	55002	NEWP_T1	3	4	1	0.53	0.95	0.42	-0.21	-0.2	0	0	0	0	0	0
2/4/2025 9:08	44902	SCOT_T2	43	170	127	0.12	0.15	0.03	-0.95	-0.92	0	0	0	0	0	0
2/4/2025 9:09	42701	AUGU_T1	4	1	-3	0.28	0.9	0.62	0	4	2	2	0	1800	1800	0
2/4/2025 9:11	14801	TREI_T2	0	2	2	0	0.25	0.25	0.5	0.51	0	0	0	0	0	0
2/4/2025 9:12	44801	EDAN_T2	0	0	0	0	0	0	-0.38	-0.34	0	0	0	0	0	0
2/4/2025 9:13	10801	CHHI_T1	0	0	0	0	0	0	-1.37	-1.34	2	2	0	1500	1500	0
2/4/2025 9:13	10805	CHHI_T2	2	1	-1	3.8	7.4	3.6	-1.24	-1.21	1	1	0	600	600	0
2/4/2025 9:16	63501	HEID_TBK1-2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/4/2025 9:17	44801	EDAN_T2	0	0	0	0	0	0	-0.38	-0.34	0	0	0	0	0	0
2/4/2025 9:17	64802	MONE_T2	17	84	67	0.16	0.27	0.11	0	0	0	0	0	0	0	0
2/4/2025 9:17	64801	MONE_T2	24	72	48	0.14	0.27	0.13	0.03	0.01	0	0	0	0	0	0
2/4/2025 9:18	64802	MONE_T2	17	84	67	0.16	0.27	0.11	0.14	0.13	0	0	0	0	0	0
2/4/2025 9:18	64801	MONE_T2	24	72	48	0.14	0.27	0.13	0	0	0	0	0	0	0	0
2/4/2025 9:19	64801	MONE_T2	24	72	48	0.14	0.27	0.13	0	0	0	0	0	0	0	0
2/4/2025 9:19	64802	MONE_T2	17	84	67	0.16	0.27	0.11	0	0	0	0	0	0	0	0
2/4/2025 9:21	13701	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 9:21	13704	SCHN_T2	3	7	4	0.1	0.19	0.09	-0.92	-0.34	0	0	0	0	0	0
2/4/2025 9:23	13704	SCHN_T2	3	7	4	0.1	0.19	0.09	-0.92	-0.34	0	0	0	0	0	0
2/4/2025 9:23	13701	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 9:24	40101	HUNT_T2	85	165	80	0.55	0.6	0.05	-0.91	-0.87	0	0	0	0	0	0
2/4/2025 9:29	47901	HRDG_T1	0	0	0	0	0	0	1.7	1.27	0	1	1	0	1200	1200
2/4/2025 9:31	53801	MBRG_T2	0	0	0	0	0	0	-1.79	-1.85	0	0	0	0	0	0
2/4/2025 9:31	53802	MBRG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/4/2025 9:32	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 9:32	58202	NEWV_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
2/4/2025 9:32	58401	MORO_T1	0	0	0	0	0	0	-0.99	-1	1	1	0	600	600	0
2/4/2025 9:33	58102	NEKI_T1	2	1	-1	0.45	0.8	0.35	0.46	0.38	0	0	0	0	0	0
2/4/2025 9:34	52101	MEIS_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
2/4/2025 9:34	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
2/4/2025 9:35	67106	SPRI_T2	0	0	0	0	0	0	-1.93	-1.27	1	1	0	900	900	0
2/4/2025 9:36	58202	NEWV_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
2/4/2025 9:36	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 9:36	58401	MORO_T1	0	0	0	0	0	0	-1.99	-2.01	2	2	0	1200	1200	0
2/4/2025 9:38	67106	SPRI_T2	0	0	0	0	0	0	-2.54	-2.51	2	2	0	1800	1800	0
2/4/2025 9:39	40101	HUNT_T2	136	164	28	0.64	0.58	-0.06	-0.87	-0.89	0	0	0	0	0	0
2/4/2025 9:40	61305	EARL_T1	0	0	0	0	0	0	0.67	0.69	2	2	0	1500	1500	0
2/4/2025 9:41	16103	BING_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
2/4/2025 9:41	16102	BING_T2	3	12	9	0.43	0.23	-0.2	0	0	0	0	0	0	0	0
2/4/2025 9:42	40701	FFLD_T1	7	7	0	0.1	0.14	0.04	0	0	0	0	0	0	0	0
2/4/2025 9:42	40702	FFLD_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/4/2025 9:44	40701	FFLD_T1	7	7	0	0.1	0.14	0.04	0	0	0	0	0	0	0	0
2/4/2025 9:44	40702	FFLD_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/4/2025 9:44	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 9:45	16103	BING_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
2/4/2025 9:45	16102	BING_T2	12	1	-11	0.23	0.5	0.27	0	0	0	0	0	0	0	0
2/4/2025 9:46	47103	MARL_T2	264	302	38	0.76	0.87	0.11	-0.43	-0.47	0	0	0	0	0	0
2/4/2025 9:46	47102	MARL_T2	126	138	12	0.77	0.82	0.05	0	0	0	0	0	0	0	0
2/4/2025 9:48	53803	MBRG_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
2/4/2025 9:49	16102	BING_T2	12	1	-11	0.23	0.5	0.27	0	0	0	0	0	0	0	0
2/4/2025 9:49	16103	BING_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
2/4/2025 9:53	67402	WAKE_T2	1	1	0	0.3	0.3	0	0.48	0.47	1	1	0	600	600	0
2/4/2025 9:53	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 9:54	67402	WAKE_T2	1	1	0	0.3	0.3	0	0.48	0.47	1	1	0	600	600	0
2/4/2025 9:54	29402	BELT_T1	1	1	0	7.5	7.3	-0.2	0	0	0	0	0	0	0	0
2/4/2025 9:54	29401	BELT_T1	33	7	-26	0.21	0.11	-0.1	0	0	0	0	0	0	0	0
2/4/2025 9:56	61001	DONV_T1	0	1	1	0	1	1	-0.28	-0.32	0	0	0	0	0	0
2/4/2025 9:56	29401	BELT_T1	33	7	-26	0.21	0.11	-0.1	0	0	0	0	0	0	0	0
2/4/2025 9:56	29402	BELT_T1	1	1	0	7.5	7.3	-0.2	0	0	0	0	0	0	0	0
2/4/2025 9:57	29402	BELT_T1	1	1	0	7.5	7.3	-0.2	0	0	0	0	0	0	0	0
2/4/2025 9:57	29401	BELT_T1	33	7	-26	0.21	0.11	-0.1	0	0	1	1	0	900	900	0
2/4/2025 9:59	10801	CHHI_T1	0	0	0	0	0	0	-0.76	-0.75	1	1	0	900	900	0
2/4/2025 10:02	64801	MONE_T2	116	67	-49	0.4	0.26	-0.14	0	0	0	0	0	0	0	0
2/4/2025 10:02	64802	MONE_T2	130	74	-56	0.47	0.28	-0.19	0	0	0	0	0	0	0	0
2/4/2025 10:06	64801	MONE_T2	116	67	-49	0.4	0.26	-0.14	0	0	0	0	0	0	0	0
2/4/2025 10:06	64802	MONE_T2	130	74	-56	0.47	0.28	-0.19	0.34	0.31	0	0	0	0	0	0
2/4/2025 10:10	40101	HUNT_T2	127	329	202	0.6	0.63	0.03	-0.88	-0.87	0	0	0	0	0	0
2/4/2025 10:10	45501	DERR_T2	0	0	0	0	0	0	0.44	0.35	2	2	0	1800	1800	0
2/4/2025 10:13	61304	EARL_T1	0	0	0	0	0	0	-0.71	-0.71	1	1	0	600	600	0
2/4/2025 10:15	45501	DERR_T2	0	0	0	0	0	0	0.44	0.35	2	2	0	1800	1800	0
2/4/2025 10:16	17802	GILB_T1	1	0	-1	0.2	0	-0.2	0.19	0.23	0	0	0	0	0	0
2/4/2025 10:19	24104	EHAZ_T1	40	6	-34	0.18	0.17	-0.01	2.21	2.2	1	1	0	1200	1200	0
2/4/2025 10:19	24101	EHAZ_T1	27	32	5	1.61	1.1	-0.51	0	0	0	0	0	0	0	0
2/4/2025 10:19	24102	EHAZ_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
2/4/2025 10:19	24105	EHAZ_T1	4	4	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
2/4/2025 10:21	17001	RIRO_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
2/4/2025 10:25	40201	BEGA_T2	4	6	2	0.28	0.37	0.09	0	0	0	0	0	0	0	0
2/4/2025 10:25	18001	ZION_T1	2	2	0	9.95	9.7	-0.25	0	0	0	0	0	0	0	0
2/4/2025 10:27	10801	CHHI_T1	0	0	0	0	0	0	-0.69	-0.76	1	1	0	900	900	0
2/4/2025 10:28	17802	GILB_T1	1	0	-1	0.2	0	-0.2	0.23	0.22	0	0	0	0	0	0
2/4/2025 10:29	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 10:31	57201	ROSS_T1	0	0	0	0	0	0	-0.48	-0.3	0	0	0	0	0	0
2/4/2025 10:31	42902	MIDD_T2	0	2	2	0	0.4	0.4	-0.95	-0.92	1	1	0	600	600	0
2/4/2025 10:31	54601	SUMM_T2	5	7	2	0.42	0.47	0.05	-1.82	-1.86	2	2	0	2100	2100	0
2/4/2025 10:31	57205	ROSS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/4/2025 10:32	42902	MIDD_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
2/4/2025 10:33	57201	ROSS_T1	0	0	0	0	0	0	-0.48	-0.3	0	0	0	0	0	0
2/4/2025 10:33	57205	ROSS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/4/2025 10:35	42902	MIDD_T2	0	2	2	0	0.4	0.4	-0.95	-0.92	1	1	0	600	600	0
2/4/2025 10:35	44901	SCOT_T2	145	11	-134	0.36	0.2	-0.16	0	0	0	0	0	0	0	0
2/4/2025 10:35	44902	SCOT_T2	567	562	-5	0.34	0.33	-0.01	-0.96	-0.95	0	0	0	0	0	0
2/4/2025 10:36	44902	SCOT_T2	567	562	-5	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
2/4/2025 10:36	44901	SCOT_T2	145	11	-134	0.36	0.2	-0.16	-0.05	-0.08	0	0	0	0	0	0
2/4/2025 10:37	54603	SUMM_T2	0	0	0	0	0	0	-0.33	-0.32	1	1	0	900	900	0
2/4/2025 10:37	54601	SUMM_T2	5	7	2	0.42	0.47	0.05	0	0	0	0	0	0	0	0
2/4/2025 10:38	44901	SCOT_T2	145	11	-134	0.36	0.2	-0.16	-0.05	-0.08	0	0	0	0	0	0
2/4/2025 10:38	44902	SCOT_T2	567	562	-5	0.34	0.33	-0.01	-0.95	-0.99	0	0	0	0	0	0
2/4/2025 10:40	54603	SUMM_T2	0	0	0	0	0	0	-0.33	-0.32	1	1	0	900	900	0
2/4/2025 10:40	54601	SUMM_T2	5	7	2	0.42	0.47	0.05	0	0	0	0	0	0	0	0
2/4/2025 10:41	45502	DERR_T2	0	0	0	0	0	0	-0.61	-0.59	0	0	0	0	0	0
2/4/2025 10:41	53501	EVIL_T2	2	2	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
2/4/2025 10:43	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/4/2025 10:43	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
2/4/2025 10:43	54504	ENOL_T2	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
2/4/2025 10:44	53501	EVIL_T2	2	2	0	0.5	0.9	0.4	-0.49	-0.41	1	1	0	600	600	0
2/4/2025 10:45	47203	FAXO_T2	1	1	0	1.6	1.5	-0.1	0	0	0	0	0	0	0	0
2/4/2025 10:45	47202	FAXO_T2	0	0	0	0	0	0	-2.33	-2.34	0	0	0	0	0	0
2/4/2025 10:48	64904	MILL_T1	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
2/4/2025 10:49	55002	NEWP_T1	4	6	2	0.78	0.72	-0.06	0	0	0	0	0	0	0	0
2/4/2025 10:49	55001	NEWP_T1	0	0	0	0	0	0	-0.56	-0.5	0	0	0	0	0	0
2/4/2025 10:50	40101	HUNT_T2	154	114	-40	0.61	0.57	-0.04	-0.77	-0.76	0	0	0	0	0	0
2/4/2025 10:51	40101	HUNT_T2	154	114	-40	0.61	0.57	-0.04	-0.76	-0.81	0	0	0	0	0	0
2/4/2025 10:53	40101	HUNT_T2	154	114	-40	0.61	0.57	-0.04	-0.76	-0.81	0	0	0	0	0	0
2/4/2025 10:56	52501	PROG_T1	0	0	0	0	0	0	-0.71	-0.81	1	1	0	300	300	0
2/4/2025 10:57	16102	BING_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/4/2025 10:57	16101	BING_T2	1	1	0	0.2	0.4	0.2	0.21	0.3	0	0	0	0	0	0
2/4/2025 10:58	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
2/4/2025 10:58	61001	DONV_T1	1	1	0	1	0.3	-0.7	-0.32	-0.3	0	0	0	0	0	0
2/4/2025 10:58	54502	ENOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/4/2025 10:58	54503	ENOL_T2	0	0	0	0	0	0	-0.83	-1.25	3	3	0	1800	1800	0
2/4/2025 10:59	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
2/4/2025 10:59	54503	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 10:59	54502	ENOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/4/2025 11:00	54504	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 11:00	54503	ENOL_T2	0	0	0	0	0	0	-0.28	-0.42	1	1	0	600	600	0
2/4/2025 11:00	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
2/4/2025 11:00	54502	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/4/2025 11:01	54502	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/4/2025 11:01	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.07	0	0	0	0	0	0
2/4/2025 11:01	54503	ENOL_T2	0	0	0	0	0	0	-0.28	-0.42	1	1	0	600	600	0
2/4/2025 11:01	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
2/4/2025 11:01	54504	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 11:02	54502	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/4/2025 11:02	46102	MACI_T2	0	0	0	0	0	0	0.64	0.7	1	1	0	1200	1200	0
2/4/2025 11:02	54503	ENOL_T2	0	0	0	0	0	0	-0.28	-0.42	1	1	0	600	600	0
2/4/2025 11:02	54505	ENOL_T2	1	1	0	0.9	0.9	0	-1.25	-1.26	1	1	0	600	600	0
2/4/2025 11:02	54504	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 11:04	54502	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/4/2025 11:04	54505	ENOL_T2	1	1	0	0.9	0.9	0	-1.25	-1.26	1	1	0	600	600	0
2/4/2025 11:04	54504	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 11:07	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 11:08	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 11:08	43304	WATS_T2	0	1	1	0	0	0	0.76	0.77	0	0	0	0	0	0
2/4/2025 11:09	10805	CHHI_T2	1	1	0	8	8	0	-0.74	-0.82	1	1	0	600	600	0
2/4/2025 11:09	0	43304	WATS_T2	1	1	0	0	0	0.76	0.77	0	0	0	0	0	0
2/4/2025 11:10	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 11:10	59202	THOM_T1	0	10	10	0	0.2	0.2	0	0	0	0	0	0	0	0
2/4/2025 11:11	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 11:11	43301	WATS_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
2/4/2025 11:14	54505	ENOL_T2	1	1	0	0.9	0.9	0	-1.26	-1.28	1	1	0	600	600	0
2/4/2025 11:14	54502	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/4/2025 11:14	54504	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 11:15	41801	GOCI_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/4/2025 11:18	41801	GOCI_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/4/2025 11:21	13502	MCMI_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
2/4/2025 11:21	13501	MCMI_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
2/4/2025 11:21	13704	SCHN_T2	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
2/4/2025 11:21	63501	HEID_TBK1-2	1	1	0	0.5	1.1	0.6	0.21	0.2	1	1	0	900	900	0
2/4/2025 11:23	44901	SCOT_T2	3	81	78	0.13	0.22	0.09	-0.1	-0.08	0	0	0	0	0	0
2/4/2025 11:23	40201	BEGA_T2	5	8	3	0.34	0.35	0.01	0	0	0	0	0	0	0	0
2/4/2025 11:23	44902	SCOT_T2	434	712	278	0.23	0.54	0.31	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/4/2025 11:24	63501	HEID_T8K1-2	1	1	0	0.5	1.1	0.6	0.21	0.2	1	1	0	900	900	0
2/4/2025 11:25	41601	CLEV_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
2/4/2025 11:25	63501	HEID_T8K1-2	1	1	0	0.5	1.1	0.6	0.42	0.39	2	2	0	1800	1800	0
2/4/2025 11:26	54601	SUMM_T2	6	11	5	0.42	0.74	0.32	-1.77	-1.84	2	2	0	2100	2100	0
2/4/2025 11:27	41601	CLEV_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
2/4/2025 11:27	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 11:28	47203	FAXO_T2	1	1	0	1.5	1.3	-0.2	-1.77	-1.76	1	1	0	1200	1200	0
2/4/2025 11:30	21501	CEAV_T2	0	0	0	0	0	0	0.24	0.01	1	1	0	1200	1200	0
2/4/2025 11:32	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 11:33	54505	ENOL_T2	1	2	1	0.9	1.45	0.55	0	0	0	0	0	0	0	0
2/4/2025 11:33	54502	ENOL_T2	1	29	28	0.6	0.17	-0.43	-2.1	-2.06	1	1	0	600	600	0
2/4/2025 11:33	42903	MIDD_T2	0	2	2	0	0.5	0.5	0.71	0.7	1	1	0	1200	1200	0
2/4/2025 11:33	54503	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 11:33	54504	ENOL_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
2/4/2025 11:35	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 11:36	41902	REED_T1	0	1	1	0	0.2	0.2	0.22	0.19	0	0	0	0	0	0
2/4/2025 11:37	13704	SCHN_T2	0	1	1	0	0.2	0.2	-0.36	-0.35	0	0	0	0	0	0
2/4/2025 11:38	43402	BENT_T1	1	2	1	0.3	0.35	0.05	-0.9	-0.89	1	1	0	900	900	0
2/4/2025 11:38	40201	BEGA_T2	5	7	2	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
2/4/2025 11:39	52501	PROG_T1	0	3	3	0	0.33	0.33	-1	-1.02	0	0	0	0	0	0
2/4/2025 11:40	52501	PROG_T1	0	3	3	0	0.33	0.33	-0.5	-0.51	0	0	0	0	0	0
2/4/2025 11:40	43402	BENT_T1	1	2	1	0.3	0.35	0.05	-0.9	-0.89	1	1	0	900	900	0
2/4/2025 11:40	45501	DERR_T2	0	0	0	0	0	0	0.38	0.4	2	2	0	1800	1800	0
2/4/2025 11:41	65205	PRIN_T1	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 11:41	46002	BERW_T2	0	0	0	0	0	0	-0.61	-0.74	1	1	0	900	900	0
2/4/2025 11:41	52501	PROG_T1	0	3	3	0	0.33	0.33	-0.5	-0.51	0	0	0	0	0	0
2/4/2025 11:42	46002	BERW_T2	0	0	0	0	0	0	-0.61	-0.74	1	1	0	900	900	0
2/4/2025 11:44	63804	HEMP_T1	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
2/4/2025 11:44	63801	HEMP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/4/2025 11:44	45501	DERR_T2	0	0	0	0	0	0	0.38	0.4	2	2	0	1800	1800	0
2/4/2025 11:44	63803	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/4/2025 11:44	63802	HEMP_T1	0	0	0	0	0	0	0.17	0.22	0	0	0	0	0	0
2/4/2025 11:45	63802	HEMP_T1	0	0	0	0	0	0	0.17	0.22	0	0	0	0	0	0
2/4/2025 11:45	63804	HEMP_T1	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
2/4/2025 11:45	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 11:45	63803	HEMP_T1	1	1	0	0.2	0.3	0.1	0.12	0.15	0	0	0	0	0	0
2/4/2025 11:45	63801	HEMP_T1	1	1	0	0.3	0.2	-0.1	0.23	0.2	0	0	0	0	0	0
2/4/2025 11:45	43402	BENT_T1	1	2	1	0.4	0.35	-0.05	-0.9	-0.89	1	1	0	900	900	0
2/4/2025 11:46	65207	PRIN_T4	4	4	0	3.15	1.1	-2.05	0	0	0	0	0	0	0	0
2/4/2025 11:46	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 11:46	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/4/2025 11:47	63803	HEMP_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/4/2025 11:47	63801	HEMP_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/4/2025 11:47	63802	HEMP_T1	0	0	0	0	0	0	0.33	0.44	0	0	0	0	0	0
2/4/2025 11:47	63804	HEMP_T1	1	1	0	6.4	6.4	0	0.93	0.9	0	0	0	0	0	0
2/4/2025 11:48	63803	HEMP_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/4/2025 11:48	55002	NEWP_T1	4	4	0	1.3	0.98	-0.32	-0.23	-0.21	0	0	0	0	0	0
2/4/2025 11:48	63802	HEMP_T1	0	0	0	0	0	0	0.17	0.22	0	0	0	0	0	0
2/4/2025 11:48	63804	HEMP_T1	1	1	0	6.4	6.4	0	2.78	2.7	0	0	0	0	0	0
2/4/2025 11:48	63801	HEMP_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/4/2025 11:48	55001	NEWP_T1	4	4	0	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
2/4/2025 11:49	63803	HEMP_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/4/2025 11:49	63804	HEMP_T1	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
2/4/2025 11:49	63802	HEMP_T1	0	0	0	0	0	0	0.17	0.22	0	0	0	0	0	0
2/4/2025 11:49	55002	NEWP_T1	4	4	0	1.3	0.98	-0.32	-0.23	-0.21	0	0	0	0	0	0
2/4/2025 11:49	63801	HEMP_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/4/2025 11:49	55001	NEWP_T1	4	4	0	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
2/4/2025 11:50	55002	NEWP_T1	4	4	0	1.3	0.98	-0.32	0	0	0	0	0	0	0	0
2/4/2025 11:50	47101	MARL_T1	15	16	1	0.51	0.5	-0.01	-0.65	-0.77	0	0	0	0	0	0
2/4/2025 11:50	55001	NEWP_T1	4	4	0	0.33	0.2	-0.13	-0.54	-0.62	0	0	0	0	0	0
2/4/2025 11:51	55001	NEWP_T1	4	4	0	0.33	0.2	-0.13	-0.54	-0.62	0	0	0	0	0	0
2/4/2025 11:51	55002	NEWP_T1	4	4	0	1.3	0.98	-0.32	-0.23	-0.21	0	0	0	0	0	0
2/4/2025 11:52	55002	NEWP_T1	4	4	0	1.3	0.98	-0.32	0	0	0	0	0	0	0	0
2/4/2025 11:52	55001	NEWP_T1	4	4	0	0.33	0.2	-0.13	-0.31	-0.31	0	0	0	0	0	0
2/4/2025 11:53	63803	HEMP_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/4/2025 11:53	55002	NEWP_T1	4	4	0	1.3	0.98	-0.32	-0.21	-0.24	0	0	0	0	0	0
2/4/2025 11:53	63804	HEMP_T1	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
2/4/2025 11:53	63801	HEMP_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/4/2025 11:53	55001	NEWP_T1	4	4	0	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
2/4/2025 11:54	60201	ATGL_T2	5	6	1	0.3	0.42	0.12	0	0	0	0	0	0	0	0
2/4/2025 11:54	63804	HEMP_T1	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
2/4/2025 11:54	63803	HEMP_T1	1	1	0	0.2	0.3	0.1	0.15	0.15	0	0	0	0	0	0
2/4/2025 11:54	63801	HEMP_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/4/2025 11:56	46004	BERW_T2	0	1	1	0	0	0	-0.17	-0.15	0	0	0	0	0	0
2/4/2025 11:56	60201	ATGL_T2	5	6	1	0.3	0.42	0.12	0.96	0.97	0	0	0	0	0	0
2/4/2025 11:58	54502	ENOL_T2	8	26	18	0.33	0.17	-0.16	-2.01	-2.07	1	1	0	600	600	0
2/4/2025 11:58	24104	EHAZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/4/2025 11:58	24105	EHAZ_T1	4	4	0	5.78	5.6	-0.18	0	0	0	0	0	0	0	0
2/4/2025 11:58	24103	EHAZ_T1	0	0	0	0	0	0	-0.26	-0.17	0	0	0	0	0	0
2/4/2025 11:58	54504	ENOL_T2	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/4/2025 11:58	24101	EHAZ_T1	44	43	-1	0.87	0.61	-0.26	0	0	0	0	0	0	0	0
2/4/2025 11:58	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/4/2025 11:58	54505	ENOL_T2	2	2	0	0.95	1.45	0.5	0	0	0	0	0	0	0	0
2/4/2025 11:59	54505	ENOL_T2	2	2	0	0.95	1.45	0.5	0	0	0	0	0	0	0	0
2/4/2025 11:59	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 11:59	54502	ENOL_T2	8	26	18	0.33	0.17	-0.16	0	0	0	0	0	0	0	0
2/4/2025 11:59	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/4/2025 11:59	54504	ENOL_T2	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/4/2025 12:00	40802	EXCH_T2	0	1	1	0	0.6	0.6	-0.22	-0.36	0	0	0	0	0	0
2/4/2025 12:00	54505	ENOL_T2	2	2	0	1.45	1.55	0.1	0	0	0	0	0	0	0	0
2/4/2025 12:00	54502	ENOL_T2	26	7	-19	0.16	0.37	0.21	0	0	0	0	0	0	0	0
2/4/2025 12:00	54501	ENOL_T2	0	2	2	0	0.1	0.1	0.12	0.12	0	0	0	0	0	0
2/4/2025 12:00	54503	ENOL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/4/2025 12:00	54504	ENOL_T2	2	1	-1	0.6	1.1	0.5	0	0	0	0	0	0	0	0
2/4/2025 12:01	54504	ENOL_T2	2	1	-1	0.6	1.1	0.5	0	0	0	0	0	0	0	0
2/4/2025 12:01	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 12:01	54503	ENOL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/4/2025 12:01	54505	ENOL_T2	2	2	0	1.45	1.55	0.1	0	0	0	0	0	0	0	0
2/4/2025 12:01	54502	ENOL_T2	26	7	-19	0.16	0.37	0.21	0	0	0	0	0	0	0	0
2/4/2025 12:02	60504	NMAN_T2	0	3	3	0	1	1	0	0	0	0	0	0	0	0
2/4/2025 12:02	60502	NMAN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
2/4/2025 12:02	60501	NMAN_T2	30	105	75	0.21	0.32	0.11	0	0	0	0	0	0	0	0
2/4/2025 12:03	54503	ENOL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/4/2025 12:03	54504	ENOL_T2	2	1	-1	0.6	1.1	0.5	0	0	0	0	0	0	0	0
2/4/2025 12:03	60502	NMAN_T2	0	2	2	0	0.45	0.45	-0.1	-0.27	0	0	0	0	0	0
2/4/2025 12:03	60504	NMAN_T2	0	3	3	0	1	1	0	0	0	0	0	0	0	0
2/4/2025 12:03	54502	ENOL_T2	26	7	-19	0.16	0.37	0.21	0	0	0	0	0	0	0	0
2/4/2025 12:03	54505	ENOL_T2	2	2	0	1.45	1.55	0.1	0	0	0	0	0	0	0	0
2/4/2025 12:03	54501	ENOL_T2	0	2	2	0	0.1	0.1	0.12	0.12	0	0	0	0	0	0
2/4/2025 12:03	60501	NMAN_T2	30	105	75	0.21	0.32	0.11	0	0	0	0	0	0	0	0
2/4/2025 12:04	54503	ENOL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/4/2025 12:04	54505	ENOL_T2	2	2	0	1.45	1.55	0.1	-1.28	-1.31	1	1	0	600	600	0
2/4/2025 12:04	54502	ENOL_T2	26	7	-19	0.16	0.37	0.21	0	0	0	0	0	0	0	0
2/4/2025 12:04	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 12:04	54504	ENOL_T2	2	1	-1	0.6	1.1	0.5	0	0	0	0	0	0	0	0
2/4/2025 12:04	44203	POIN_T2	0	0	0	0	0	0	-0.44	-0.39	2	2	0	2100	2100	0
2/4/2025 12:05	44202	POIN_T2	0	0	0	0	0	0	-0.52	-0.54	1	1	0	1200	1200	0
2/4/2025 12:05	60502	NMAN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
2/4/2025 12:05	60504	NMAN_T2	0	3	3	0	1	1	0	0	0	0	0	0	0	0
2/4/2025 12:05	60501	NMAN_T2	30	105	75	0.21	0.32	0.11	0	0	0	0	0	0	0	0
2/4/2025 12:06	44201	POIN_T1	0	2	2	0	0.45	0.45	-3.4	-3.49	4	4	0	4200	4200	0
2/4/2025 12:07	54602	SUMM_T2	0	12	12	0	0.24	0.24	0	0	0	0	0	0	0	0
2/4/2025 12:07	24202	PROV_T4	0	0	0	0	0	0	-0.68	-0.61	1	1	0	1200	1200	0
2/4/2025 12:07	54603	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 12:07	54601	SUMM_T2	12	11	-1	0.83	0.87	0.04	0	0	0	0	0	0	0	0
2/4/2025 12:07	24206	PROV_T4	1	1	0	1.4	0	-1.4	0	0	0	0	0	0	0	0
2/4/2025 12:09	40101	HUNT_T2	209	187	-22	0.68	0.59	-0.09	-0.9	-0.92	0	0	0	0	0	0
2/4/2025 12:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/4/2025 12:09	29402	BELT_T1	1	1	0	6.9	7.2	0.3	0	0	0	0	0	0	0	0
2/4/2025 12:09	54602	SUMM_T2	0	12	12	0	0.24	0.24	0	0	0	0	0	0	0	0
2/4/2025 12:09	54601	SUMM_T2	12	11	-1	0.83	0.87	0.04	-1.86	-1.84	2	2	0	2100	2100	0
2/4/2025 12:09	53102	WTWN_T1	0	0	0	0	0	0	-0.61	-0.47	0	0	0	0	0	0
2/4/2025 12:09	54603	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 12:10	54602	SUMM_T2	0	12	12	0	0.24	0.24	0	0	0	0	0	0	0	0
2/4/2025 12:10	54603	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 12:10	54601	SUMM_T2	12	11	-1	0.83	0.87	0.04	-3.72	-3.68	4	4	0	4200	4200	0
2/4/2025 12:10	53102	WTWN_T1	0	0	0	0	0	0	-1.22	-0.94	0	0	0	0	0	0
2/4/2025 12:11	54601	SUMM_T2	12	11	-1	0.83	0.87	0.04	-3.72	-3.68	4	4	0	4200	4200	0
2/4/2025 12:11	54602	SUMM_T2	0	12	12	0	0.24	0.24	0	0	0	0	0	0	0	0
2/4/2025 12:11	54603	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 12:13	60904	DONG_T2	1	6	5	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
2/4/2025 12:13	60902	DONG_T2	0	3	3	0	0.33	0.33	0.58	0.59	0	0	0	0	0	0
2/4/2025 12:13	60901	DONG_T2	0	5	5	0	0.58	0.58	0	0	0	0	0	0	0	0
2/4/2025 12:16	17805	GILB_T2	0	0	0	0	0	0	0.12	0.07	0	0	0	0	0	0
2/4/2025 12:16	46004	BERW_T2	1	0	-1	0.2	0	-0.2	-0.15	-0.17	0	0	0	0	0	0
2/4/2025 12:17	58401	MORO_T1	0	0	0	0	0	0	-1.03	-0.99	1	1	0	600	600	0
2/4/2025 12:18	17805	GILB_T2	0	0	0	0	0	0	0.12	0.07	0	0	0	0	0	0
2/4/2025 12:20	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 12:21	40101	HUNT_T2	172	163	-9	0.6	0.73	0.13	-0.92	-0.85	0	0	0	0	0	0
2/4/2025 12:21	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 12:23	67402	WAKE_T2	1	1	0	0.2	0.2	0	0.47	0.44	1	1	0	600	600	0
2/4/2025 12:23	67401	WAKE_T2	1	2	1	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
2/4/2025 12:24	67502	WEWI_T2	5	4	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/4/2025 12:24	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 12:27	61302	EARL_T1	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/4/2025 12:27	61304	EARL_T1	3	2	-1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
2/4/2025 12:27	61306	EARL_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
2/4/2025 12:28	61303	EARL_T1	0	0	0	0	0	0	0.42	0.52	0	0	0	0	0	0
2/4/2025 12:28	61302	EARL_T1	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/4/2025 12:28	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 12:28	24105	EHAZ_T1	4	5	1	5.68	5.6	-0.08	-1.98	-2.07	1	1	0	1200	1200	0
2/4/2025 12:28	24102	EHAZ_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 12:28	61304	EARL_T1	3	2	-1	0.1	0.6	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/4/2025 12:28	24101	EHAZ_T1	32	37	5	1.04	0.82	-0.22	0	0	0	0	0	0	0	0
2/4/2025 12:29	41801	GOCI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/4/2025 12:29	61302	EARL_T1	3	0	-3	0.3	0	-0.3	0.22	0.52	2	2	0	1800	1800	0
2/4/2025 12:29	61304	EARL_T1	3	2	-1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
2/4/2025 12:30	61304	EARL_T1	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/4/2025 12:30	61306	EARL_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
2/4/2025 12:30	61302	EARL_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
2/4/2025 12:37	13905	SEID_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
2/4/2025 12:39	55105	WERT_T1	0	0	0	0	0	0	-1.27	-1.17	2	2	0	1800	1800	0
2/4/2025 12:40	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 12:42	40201	BEGA_T2	5	8	3	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/4/2025 12:44	41601	CLEV_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
2/4/2025 12:44	41602	CLEV_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/4/2025 12:46	64204	KINZ_T1	22	68	46	0.27	0.83	0.56	0	0	0	0	0	0	0	0
2/4/2025 12:46	64202	KINZ_T1	2	4	2	0.3	0.25	-0.05	0.69	0.67	0	0	0	0	0	0
2/4/2025 12:47	57205	ROSS_T1	2	3	1	0.5	0.77	0.27	0	0	0	0	0	0	0	0
2/4/2025 12:47	57201	ROSS_T1	1	2	1	0.2	0.35	0.15	-0.47	-0.48	0	0	0	0	0	0
2/4/2025 12:47	64204	KINZ_T1	22	68	46	0.27	0.83	0.56	0	0	0	0	0	0	0	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.25	1.26	1	1	0	600	600	0
2/4/2025 12:47	64202	KINZ_T1	2	4	2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
2/4/2025 12:48	57205	ROSS_T1	2	3	1	0.5	0.77	0.27	0	0	0	0	0	0	0	0
2/4/2025 12:48	57201	ROSS_T1	1	2	1	0.2	0.35	0.15	-0.47	-0.48	0	0	0	0	0	0
2/4/2025 12:51	54602	SUMM_T2	1	3	2	0.1	0.33	0.23	0	0	0	0	0	0	0	0
2/4/2025 12:51	54603	SUMM_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
2/4/2025 12:51	54601	SUMM_T2	13	13	0	0.81	0.88	0.07	-1.78	-1.87	2	2	0	2100	2100	0
2/4/2025 12:53	60204	ATGL_T2	7	6	-1	0.36	0.43	0.07	0.97	0.94	0	0	0	0	0	0
2/4/2025 12:54	43802	SWIL_T1	0	0	0	0	0	0	-0.24	-0.21	1	1	0	600	600	0
2/4/2025 12:54	43801	SWIL_T1	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
2/4/2025 12:57	61701	ELIZ_T1	2	1	-1	2.9	5.7	2.8	0.39	0.24	0	0	0	0	0	0
2/4/2025 12:57	61703	ELIZ_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/4/2025 13:01	63602	LETO_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
2/4/2025 13:01	63601	LETO_T1	6	8	2	0.68	0.43	-0.25	1.48	1.49	0	0	0	0	0	0
2/4/2025 13:04	57203	ROSS_T1	0	0	0	0	0	0	-0.25	-0.3	0	0	0	0	0	0
2/4/2025 13:04	57201	ROSS_T1	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
2/4/2025 13:04	57205	ROSS_T1	2	2	0	0.85	1.1	0.25	0	0	0	0	0	0	0	0
2/4/2025 13:06	57205	ROSS_T1	2	2	0	0.85	1.1	0.25	0	0	0	0	0	0	0	0
2/4/2025 13:06	57201	ROSS_T1	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
2/4/2025 13:06	58401	MORO_T1	0	1	1	0	0.1	0.1	-1.06	-1.07	1	1	0	600	600	0
2/4/2025 13:06	57203	ROSS_T1	0	0	0	0	0	0	-0.25	-0.3	0	0	0	0	0	0
2/4/2025 13:07	58401	MORO_T1	0	1	1	0	0.1	0.1	-1.07	-1	1	1	0	600	600	0
2/4/2025 13:07	40101	HUNT_T2	57	42	-15	0.67	0.71	0.04	-0.95	-0.97	0	0	0	0	0	0
2/4/2025 13:07	67401	WAKE_T2	0	23	23	0	0.18	0.18	-1.13	-1.12	0	0	0	0	0	0
2/4/2025 13:07	67402	WAKE_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/4/2025 13:09	67401	WAKE_T2	0	23	23	0	0.18	0.18	-1.13	-1.12	0	0	0	0	0	0
2/4/2025 13:09	67402	WAKE_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/4/2025 13:13	61801	EELI_T2	3	10	7	0.2	0.43	0.23	-0.36	-0.35	0	0	0	0	0	0
2/4/2025 13:13	61803	EELI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/4/2025 13:15	61801	EELI_T2	7	7	0	0.24	0.54	0.3	0	0	0	0	0	0	0	0
2/4/2025 13:15	61803	EELI_T2	0	0	0	0	0	0	1.01	0.99	0	0	0	0	0	0
2/4/2025 13:21	66503	SMAN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/4/2025 13:21	44902	SCOT_T2	607	748	141	0.41	0.71	0.3	0	0	0	0	0	0	0	0
2/4/2025 13:21	66502	SMAN_T2	7	15	8	0.27	0.38	0.11	0	0	0	0	0	0	0	0
2/4/2025 13:21	66505	SMAN_T2	3	3	0	0.3	0.53	0.23	0	0	0	0	0	0	0	0
2/4/2025 13:21	44901	SCOT_T2	170	344	174	0.37	0.56	0.19	-0.17	0.03	0	0	0	0	0	0
2/4/2025 13:21	66504	SMAN_T2	2	11	9	0.9	0.44	-0.46	0	0	0	0	0	0	0	0
2/4/2025 13:21	66501	SMAN_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
2/4/2025 13:22	66505	SMAN_T2	3	3	0	0.3	0.53	0.23	0	0	0	0	0	0	0	0
2/4/2025 13:22	44902	SCOT_T2	607	748	141	0.41	0.71	0.3	0	0	0	0	0	0	0	0
2/4/2025 13:22	66502	SMAN_T2	7	15	8	0.27	0.38	0.11	0	0	0	0	0	0	0	0
2/4/2025 13:22	66504	SMAN_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
2/4/2025 13:22	44901	SCOT_T2	170	344	174	0.37	0.56	0.19	-0.17	0.03	0	0	0	0	0	0
2/4/2025 13:22	66504	SMAN_T2	2	11	9	0.9	0.44	-0.46	-0.54	-0.51	0	0	0	0	0	0
2/4/2025 13:22	66503	SMAN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/4/2025 13:24	66505	SMAN_T2	3	3	0	0.3	0.53	0.23	0	0	0	0	0	0	0	0
2/4/2025 13:24	66504	SMAN_T2	2	11	9	0.9	0.44	-0.46	0	0	0	0	0	0	0	0
2/4/2025 13:24	66501	SMAN_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
2/4/2025 13:24	60701	BREC_T1	13	17	4	0.4	0.39	-0.01	-0.83	-0.85	2	2	0	1200	1200	0
2/4/2025 13:24	66503	SMAN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/4/2025 13:24	66502	SMAN_T2	7	15	8	0.27	0.38	0.11	0	0	0	0	0	0	0	0
2/4/2025 13:25	61304	EARL_T1	1	2	1	0.3	0.45	0.15	-0.75	-0.77	1	1	0	600	600	0
2/4/2025 13:25	60701	BREC_T1	13	17	4	0.4	0.39	-0.01	0.42	0.43	1	1	0	600	600	0
2/4/2025 13:25	59101	WALK_T2	2	2	0	0.65	0.5	-0.15	2.32	2.81	0	0	0	0	0	0
2/4/2025 13:25	59102	WALK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/4/2025 13:26	60701	BREC_T1	13	17	4	0.4	0.39	-0.01	-0.83	-0.85	2	2	0	1200	1200	0
2/4/2025 13:27	60701	BREC_T1	13	17	4	0.4	0.39	-0.01	-1.66	-1.71	4	4	0	2400	2400	0
2/4/2025 13:27	61304	EARL_T1	1	2	1	0.3	0.45	0.15	-0.75	-0.77	1	1	0	600	600	0
2/4/2025 13:28	60701	BREC_T1	13	17	4	0.4	0.39	-0.01	-2.08	-2.14	5	5	0	3000	3000	0
2/4/2025 13:29	61304	EARL_T1	1	2	1	0.3	0.45	0.15	-0.75	-0.77	1	1	0	600	600	0
2/4/2025 13:32	64801	MONE_T2	155	164	9	0.57	0.7	0.13	0	0	0	0	0	0	0	0
2/4/2025 13:32	64802	MONE_T2	210	204	-6	0.47	0.54	0.07	0	0	0	0	0	0	0	0
2/4/2025 13:34	66501	SMAN_T2	2	2	0	0.4	0.95	0.55	0	0	0	0	0	0	0	0
2/4/2025 13:34	66502	SMAN_T2	15	14	-1	0.37	0.38	0.01	0.34	0.32	0	0	0	0	0	0
2/4/2025 13:34	66503	SMAN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/4/2025 13:34	66505	SMAN_T2	3	3	0	0.53	0.87	0.34	0	0	0	0	0	0	0	0
2/4/2025 13:34	66504	SMAN_T2	9	7	-2	0.5	0.51	0.01	0	0	0	0	0	0	0	0
2/4/2025 13:35	66502	SMAN_T2	15	14	-1	0.37	0.38	0.01	0	0	0	0	0	0	0	0
2/4/2025 13:35	66504	SMAN_T2	9	7	-2	0.5	0.51	0.01	0	0	0	0	0	0	0	0
2/4/2025 13:35	40101	HUNT_T2	13	33	20	0.71	0.81	0.1	-1.95	-2.03	0	0	0	0	0	0
2/4/2025 13:35	66505	SMAN_T2	3	3	0	0.53	0.87	0.34	0	0	0	0	0	0	0	0
2/4/2025 13:35	66501	SMAN_T2	2	2	0	0.4	0.95	0.55	0	0	0	0	0	0	0	0
2/4/2025 13:35	66503	SMAN_T2	1	1	0	0.2	0.3	0.1	0.34	0.33	0	0	0	0	0	0
2/4/2025 13:36	66502	SMAN_T2	15	14	-1	0.37	0.38	0.01	0	0	0	0	0	0	0	0
2/4/2025 13:36	66504	SMAN_T2	9	7	-2	0.5	0.51	0.01	0	0	0	0	0	0	0	0
2/4/2025 13:36	66501	SMAN_T2	2	2	0	0.4	0.95	0.55	0	0	0	0	0	0	0	0
2/4/2025 13:36	63601	LETO_T1	5	8	3	0.36	0.55	0.19	0	0	0	0	0	0	0	0
2/4/2025 13:36	41902	REED_T1	0	0	0	0	0	0	1.06	1.09	0	0	0	0	0	0
2/4/2025 13:36	63602	LETO_T1	2	2	0	0.2	0.2	0	-0.47	-0.31	0	0	0	0	0	0
2/4/2025 13:36	66503	SMAN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/4/2025 13:36	66505	SMAN_T2	3	3	0	0.53	0.87	0.34	0.03	-0.09	1	1	0	900	900	0
2/4/2025 13:38	41902	REED_T1	0	0	0	0	0	0	1.06	1.09	0	0	0	0	0	0
2/4/2025 13:38	66505	SMAN_T2	3	3	0	0.53	0.87	0.34	0.03	-0.09	1	1	0	900	900	0
2/4/2025 13:38	57001	WHHI_T2	0	0	0	0	0	0	-1.36	-1.43	1	1	0	900	900	0
2/4/2025 13:38	60301	TWVA_T2	0	0	0	0	0	0	-3.19	-3.22	2	2	0	1800	1800	0
2/4/2025 13:38	57002	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 13:38	66503	SMAN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/4/2025 13:38	66501	SMAN_T2	2	2	0	0.4	0.95	0.55	0	0	0	0	0	0	0	0
2/4/2025 13:38	66504	SMAN_T2	9	7	-2	0.5	0.51	0.01	-1.54	-1.71	0	0	0	0	0	0
2/4/2025 13:38	66502	SMAN_T2	15	14	-1	0.37	0.38	0.01	0.32	0.36	0	0	0	0	0	0
2/4/2025 13:39	66503	SMAN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/4/2025 13:39	41902	REED_T1	0	0	0	0	0	0	1.06	1.09	0	0	0	0	0	0
2/4/2025 13:39	66505	SMAN_T2	3	3	0	0.53	0.87	0.34	0	0	0	0	0	0	0	0
2/4/2025 13:39	29401	BELT_T1	26	20	-6	0.15	0.12	-0.03	0	0	1	1	0	900	900	0
2/4/2025 13:39	29402	BELT_T1	2	1	-1	4.1	7.9	3.8	0	0	0	0	0	0	0	0
2/4/2025 13:39	66504	SMAN_T2	9	7	-2	0.5	0.51	0.01	0	0	0	0	0	0	0	0
2/4/2025 13:39	66502	SMAN_T2	15	14	-1	0.37	0.38	0.01	0.95	1.09	0	0	0	0	0	0
2/4/2025 13:39	66501	SMAN_T2	2	2	0	0.4	0.95	0.55	0	0	0	0	0	0	0	0
2/4/2025 13:40	66502	SMAN_T2	15	14	-1	0.37	0.38	0.01	0.32	0.36	0	0	0	0	0	0
2/4/2025 13:40	66503	SMAN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/4/2025 13:40	66501	SMAN_T2	2	2	0	0.4	0.95	0.55	0	0	0	0	0	0	0	0
2/4/2025 13:40	67402	WAKE_T2	1	2	1	0.2	0.25	0.05	0.46	0.46	1	1	0	600	600	0
2/4/2025 13:40	66504	SMAN_T2	9	7	-2	0.5	0.51	0.01	-0.51	-0.57	0	0	0	0	0	0
2/4/2025 13:40	67401	WAKE_T2	23	22	-1	0.18	0.22	0.04	0	0	0	0	0	0	0	0
2/4/2025 13:40	66505	SMAN_T2	3	3	0	0.53	0.87	0.34	0	0	0	0	0	0	0	0
2/4/2025 13:41	61802	EELI_T2	0	0	0	0	0	0	-0.34	-0.31	0	0	0	0	0	0
2/4/2025 13:41	61801	EELI_T2	7	4	-3	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
2/4/2025 13:42	42401	GIMA_T1	46	57	11	0.21	0.23	0.02	0	0	0	0	0	0	0	0
2/4/2025 13:44	63601	LETO_T1	5	8	3	0.36	0.55	0.19	1.57	1.67	0	0	0	0	0	0
2/4/2025 13:44	63602	LETO_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/4/2025 13:45	52402	GRPA_T2	12	27	15	0.51	0.42	-0.09	0	0	0	0	0	0	0	0
2/4/2025 13:45	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/4/2025 13:45	52403	GRPA_T2	29	29	0	0.67	0.61	-0.06	-1.18	-1.21	0	0	0	0	0	0
2/4/2025 13:46	13503	MCMI_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/4/2025 13:56	60901	DONG_T2	7	7	0	0.37	0.4	0.03	0	0	0	0	0	0	0	0
2/4/2025 13:56	60902	DONG_T2	1	1	0	0.6	0.6	0	0.72	0.72	0	0	0	0	0	0
2/4/2025 13:56	60903	DONG_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
2/4/2025 13:56	60904	DONG_T2	4	4	0	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
2/4/2025 13:58	41602	CLEV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/4/2025 13:58	41601	CLEV_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/4/2025 13:59	41602	CLEV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/4/2025 13:59	41601	CLEV_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/4/2025 14:01	52403	GRPA_T2	26	30	4	0.57	0.62	0.05	-0.61	-0.57	0	0	0	0	0	0
2/4/2025 14:01	52401	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/4/2025 14:01	52402	GRPA_T2	26	17	-9	0.42	0.58	0.16	0	0	0	0	0	0	0	0
2/4/2025 14:02	52403	GRPA_T2	26	30	4	0.57	0.62	0.05	0	0	0	0	0	0	0	0
2/4/2025 14:02	52401	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/4/2025 14:02	52402	GRPA_T2	26	17	-9	0.42	0.58	0.16	0	0	0	0	0	0	0	0
2/4/2025 14:03	57201	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/4/2025 14:03	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 14:03	57205	ROSS_T1	2	1	-1	1	0.8	-0.2	0	0	0	0	0	0	0	0
2/4/2025 14:03	58402	MORO_T1	0	0	0	0	0	0	-0.07	-0.06	2	2	0	1500	1500	0
2/4/2025 14:04	64101	REFR_T1	9	4	-5	0.68	0.33	-0.35	-0.1	-0.12	0	0	0	0	0	0
2/4/2025 14:06	64101	REFR_T1	9	4	-5	0.68	0.33	-0.35	-0.36	-0.33	0	0	0	0	0	0
2/4/2025 14:07	57205	ROSS_T1	2	1	-1	1	0.8	-0.2	0	0	0	0	0	0	0	0
2/4/2025 14:07	57201	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/4/2025 14:07	57203	ROSS_T1	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
2/4/2025 14:07	64101	REFR_T1	9	4	-5	0.68	0.33	-0.35	-0.24	-0.22	0	0	0	0	0	0
2/4/2025 14:08	55105	WERT_T1	2	2	0	0.4	0.35	-0.05	-0.65	-0.67	1	1	0	900	900	0
2/4/2025 14:09	64101	REFR_T1	9	4	-5	0.68	0.33	-0.35	-0.24	-0.22	0	0	0	0	0	0
2/4/2025 14:09	55105	WERT_T1	2	2	0	0.4	0.35	-0.05	-0.65	-0.67	1	1	0	900	900	0
2/4/2025 14:09	41601	CLEV_T1	1	0	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/4/2025 14:09	41602	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 14:10	41602	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 14:10	64101	REFR_T1	9	4	-5	0.68	0.33	-0.35	-0.12	-0.11	0	0	0	0	0	0
2/4/2025 14:10	41601	CLEV_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/4/2025 14:13	61304	EARL_T1	3	2	-1	0.33	0.35	0.02	0	0	0	0	0	0	0	0
2/4/2025 14:13	61302	EARL_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
2/4/2025 14:13	61301	EARL_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
2/4/2025 14:13	41602	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 14:13	41601	CLEV_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/4/2025 14:17	63602	LETO_T1	3	0	-3	0.2	0	-0.2	-0.52	-0.4	0	0	0	0	0	0
2/4/2025 14:17	63601	LETO_T1	4	2	-2	0.33	0.1	-0.23	0	0	0	0	0	0	0	0
2/4/2025 14:19	41204	KENM_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
2/4/2025 14:22	66505	SMAN_T2	4	3	-1	0.68	1.03	0.35	0	0	0	0	0	0	0	0
2/4/2025 14:22	66502	SMAN_T2	10	21	11	0.4	0.4	0	0.32	0.36	0	0	0	0	0	0
2/4/2025 14:22	66504	SMAN_T2	8	10	2	0.45	0.32	-0.13	0	0	0	0	0	0	0	0
2/4/2025 14:22	66501	SMAN_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
2/4/2025 14:23	66504	SMAN_T2	8	10	2	0.45	0.32	-0.13	0	0	0	0	0	0	0	0
2/4/2025 14:23	66502	SMAN_T2	10	21	11	0.4	0.4	0	0.32	0.36	0	0	0	0	0	0
2/4/2025 14:23	66501	SMAN_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
2/4/2025 14:23	66505	SMAN_T2	4	3	-1	0.68	1.03	0.35	0	0	0	0	0	0	0	0
2/4/2025 14:24	41902	REED_T1	0	0	0	0	0	0	1.12	1.13	0	0	0	0	0	0
2/4/2025 14:25	66502	SMAN_T2	10	21	11	0.4	0.4	0	0.32	0.36	0	0	0	0	0	0
2/4/2025 14:25	66504	SMAN_T2	8	10	2	0.45	0.32	-0.13	-0.59	-0.6	0	0	0	0	0	0
2/4/2025 14:25	66505	SMAN_T2	4	3	-1	0.68	1.03	0.35	0	0	0	0	0	0	0	0
2/4/2025 14:25	66501	SMAN_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
2/4/2025 14:26	66502	SMAN_T2	10	21	11	0.4	0.4	0	0	0	0	0	0	0	0	0
2/4/2025 14:26	66505	SMAN_T2	4	3	-1	0.68	1.03	0.35	-0.43	-0.43	2	2	0	1800	1800	0
2/4/2025 14:26	66501	SMAN_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
2/4/2025 14:26	66504	SMAN_T2	8	10	2	0.45	0.32	-0.13	0	0	0	0	0	0	0	0
2/4/2025 14:28	46802	HEPB_T1	1	1	0	0.7	0.6	-0.1	-0.35	-0.35	0	0	0	0	0	0
2/4/2025 14:36	64101	REFR_T1	4	4	0	0.28	0.28	0	-0.11	-0.1	0	0	0	0	0	0
2/4/2025 14:38	40101	HUNT_T2	38	0	-38	0.7	0	-0.7	-2.04	-1.69	0	0	0	0	0	0
2/4/2025 14:38	64101	REFR_T1	4	4	0	0.28	0.28	0	-0.11	-0.1	0	0	0	0	0	0
2/4/2025 14:41	41602	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/4/2025 14:41	41601	CLEV_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/4/2025 14:43	42701	AUGU_T1	1	1	0	0.8	0.8	0	0	0	2	2	0	1800	1800	0
2/4/2025 14:44	61801	EELI_T2	1	2	1	0.4	0.65	0.25	-0.32	-0.33	0	0	0	0	0	0
2/4/2025 14:45	41601	CLEV_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/4/2025 14:47	57205	ROSS_T1	1	3	2	0.9	0.37	-0.53	0.12	0.13	0	0	0	0	0	0
2/4/2025 14:47	57201	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 14:49	57205	ROSS_T1	1	3	2	0.9	0.37	-0.53	0.12	0.13	0	0	0	0	0	0
2/4/2025 14:49	57201	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 14:53	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	-0.51	-0.54	1	1	0	600	600	0
2/4/2025 14:53	13702	SCHN_T1	0	0	0	0	0	0	0.72	0.79	0	0	0	0	0	0
2/4/2025 14:53	13705	SCHN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/4/2025 14:54	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	-0.51	-0.54	1	1	0	600	600	0
2/4/2025 14:55	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/4/2025 14:56	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/4/2025 14:57	60701	BREC_T1	21	16	-5	0.37	0.38	0.01	-0.45	-0.47	1	1	0	600	600	0
2/4/2025 14:58	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	-0.51	-0.54	1	1	0	600	600	0
2/4/2025 15:05	52101	MEIS_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/4/2025 15:05	52102	MEIS_T1	0	1	1	0	0.2	0.2	0	0	1	1	0	450	450	0
2/4/2025 15:05	62106	ELAN_T1	1	1	0	0.5	0.3	-0.2	0.41	0.37	0	0	0	0	0	0
2/4/2025 15:05	62102	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/4/2025 15:05	62101	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/4/2025 15:07	62102	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/4/2025 15:07	62101	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/4/2025 15:07	62106	ELAN_T1	1	1	0	0.5	0.3	-0.2	0.37	0.38	0	0	0	0	0	0
2/4/2025 15:08	62106	ELAN_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
2/4/2025 15:08	67401	WAKE_T2	40	23	-17	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
2/4/2025 15:08	67402	WAKE_T2	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
2/4/2025 15:08	62101	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/4/2025 15:08	62102	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/4/2025 15:09	42701	AUGU_T1	1	1	0	0.8	1	0.2	0	0	2	2	0	1800	1800	0
2/4/2025 15:16	61502	EPET_T1	0	0	0	0	0	0	-1.15	-1.02	0	0	0	0	0	0
2/4/2025 15:19	44201	POIN_T1	47	53	6	0.2	0.19	-0.01	-1.64	-1.99	2	2	0	2100	2100	0
2/4/2025 15:20	44201	POIN_T1	47	53	6	0.2	0.19	-0.01	-4.91	-5.98	6	6	0	6300	6300	0
2/4/2025 15:21	44201	POIN_T1	47	53	6	0.2	0.19	-0.01	-1.99	-1.9	2	2	0	2100	2100	0
2/4/2025 15:21	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 15:21	48301	ORWI_T1	2	2	0	5.3	5.1	-0.2	-0.44	-0.47	1	1	0	900	900	0
2/4/2025 15:23	44201	POIN_T1	47	53	6	0.2	0.19	-0.01	-1.99	-1.9	2	2	0	2100	2100	0
2/4/2025 15:23	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 15:25	44301	BEAV_T2	0	0	0	0	0	0	-0.42	-0.31	1	1	0	600	600	0
2/4/2025 15:27	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 15:28	44301	BEAV_T2	0	0	0	0	0	0	-0.84	-0.62	2	2	0	1200	1200	0
2/4/2025 15:28	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 15:28	44502	HAMI_T2	1	1	0	3.2	2.9	-0.3	0	0	0	0	0	0	0	0
2/4/2025 15:29	44505	HAMI_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
2/4/2025 15:29	44502	HAMI_T2	1	1	0	3.2	2.9	-0.3	0	0	0	0	0	0	0	0
2/4/2025 15:32	44505	HAMI_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
2/4/2025 15:32	44502	HAMI_T2	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
2/4/2025 15:43	45802	HEGI_T2	32	18	-14	0.47	0.5	0.03	1.19	1.32	0	0	0	0	0	0
2/4/2025 15:47	45802	HEGI_T2	2	46	44	0.45	1.34	0.89	1.19	1.32	0	0	0	0	0	0
2/4/2025 15:50	62106	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/4/2025 15:50	62105	ELAN_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
2/4/2025 15:55	42601	TUSC_T1	1	5	4	0.2	0	-0.2	-0.25	-0.25	2	2	0	1800	1800	0
2/4/2025 15:57	42501	ALTA_T2	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/4/2025 16:13	40602	PIGR_T1	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
2/4/2025 16:13	40601	PIGR_T1	136	104	-32	0.26	0.17	-0.09	0	0	0	0	0	0	0	0
2/4/2025 16:14	40601	PIGR_T1	136	104	-32	0.26	0.17	-0.09	-0.23	-0.18	0	0	0	0	0	0
2/4/2025 16:15	40601	PIGR_T1	68	119	51	0.16	0.19	0.03	0	0	0	0	0	0	0	0
2/4/2025 16:16	40601	PIGR_T1	68	119	51	0.16	0.19	0.03	0	0	0	0	0	0	0	0
2/4/2025 16:18	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
2/4/2025 16:18	40601	PIGR_T1	68	119	51	0.16	0.19	0.03	-0.11	-0.09	0	0	0	0	0	0
2/4/2025 16:18	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 16:18	53903	HALI_T2	2	2	0	1.35	1	-0.35	0	0	0	0	0	0	0	0
2/4/2025 16:34	52002	LING_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/4/2025 16:34	52001	LING_T1	0	0	0	0	0	0	0.18	0.21	0	0	0	0	0	0
2/4/2025 16:34	52004	LING_T2	2	2	0	6	6.35	0.35	0.11	0.14	0	0	0	0	0	0
2/4/2025 16:34	52006	LING_T2	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
2/4/2025 16:38	63501	HEID_TBK1-2	60	116	56	0.43	0.41	-0.02	-0.53	-0.57	1	1	0	900	900	0
2/4/2025 16:56	40101	HUNT_T2	1	1	0	0.7	0	-0.7	-1.35	-1.47	0	0	0	0	0	0
2/4/2025 17:01	52402	GRPA_T2	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
2/4/2025 17:01	52403	GRPA_T2	3	5	2	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
2/4/2025 17:03	47104	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 17:03	47101	MARL_T1	1	1	0	0.2	0	-0.2	-1.37	-1.28	1	1	0	600	600	0
2/4/2025 17:06	47104	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 17:06	47101	MARL_T1	1	1	0	0.2	0	-0.2	-1.28	-1.27	1	1	0	600	600	0
2/4/2025 19:11	55002	NEWP_T1	2	3	1	0.85	0.73	-0.12	-0.22	-0.23	0	0	0	0	0	0
2/4/2025 19:25	14801	TREI_T2	0	1	1	0	0.7	0.7	0.65	0.68	0	0	0	0	0	0
2/4/2025 19:26	17805	GILB_T2	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
2/4/2025 19:26	17804	GILB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/4/2025 19:27	29402	BELT_T1	1	1	0	6.7	6.5	-0.2	0	0	0	0	0	0	0	0
2/4/2025 19:27	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:27	13905	SEID_T1	0	0	0	0	0	0	-0.95	-0.97	1	1	0	1200	1200	0
2/4/2025 19:27	10805	CHHI_T2	7	7	0	1.94	1.67	-0.27	-0.82	-0.95	1	1	0	600	600	0
2/4/2025 19:27	13904	SEID_T1	28	22	-6	0.72	0.71	-0.01	0	0	0	0	0	0	0	0
2/4/2025 19:27	17802	GILB_T1	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
2/4/2025 19:27	13701	SCHN_T2	0	0	0	0	0	0	-0.02	-0.01	1	1	0	600	600	0
2/4/2025 19:27	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:28	55002	NEWP_T1	3	2	-1	0.73	0.2	-0.53	0	0	0	0	0	0	0	0
2/4/2025 19:28	61001	DONV_T1	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
2/4/2025 19:28	53102	WTWN_T1	1	0	-1	5.4	0	-5.4	0	0	0	0	0	0	0	0
2/4/2025 19:28	44901	SCOT_T2	10	0	-10	0.15	0	-0.15	-0.08	-0.12	0	0	0	0	0	0
2/4/2025 19:28	17804	GILB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/4/2025 19:28	17805	GILB_T2	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
2/4/2025 19:28	53101	WTWN_T1	4	3	-1	1.13	0.75	-0.38	0	0	0	0	0	0	0	0
2/4/2025 19:28	44902	SCOT_T2	533	279	-254	0.4	0.18	-0.22	0	0	0	0	0	0	0	0
2/4/2025 19:28	44201	POIN_T1	0	0	0	0	0	0	-2.15	-2.12	2	2	0	2100	2100	0
2/4/2025 19:28	55001	NEWP_T1	0	0	0	0	0	0	-0.81	-0.84	1	1	0	600	600	0
2/4/2025 19:29	46004	BERW_T2	3	6	3	1.27	0.8	-0.47	0	0	0	0	0	0	0	0
2/4/2025 19:29	43401	BENT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:29	57001	WHHI_T2	0	0	0	0	0	0	-1.65	-1.65	1	1	0	900	900	0
2/4/2025 19:29	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/4/2025 19:29	67106	SPRI_T2	0	0	0	0	0	0	-1.24	-1.25	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/4/2025 19:29	66505	SMAN_T2	2	2	0	0.15	0.3	0.15	-0.46	-0.44	1	1	0	900	900	0
2/4/2025 19:29	13501	MCMI_T1	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
2/4/2025 19:29	63804	HEMP_T1	1	1	0	6.3	6.4	0.1	0.49	0.49	0	0	0	0	0	0
2/4/2025 19:29	29402	BELT_T1	1	1	0	6.7	6.5	-0.2	0	0	0	0	0	0	0	0
2/4/2025 19:29	43402	BENT_T1	0	0	0	0	0	0	-0.9	-0.89	1	1	0	900	900	0
2/4/2025 19:29	46002	BERW_T2	0	0	0	0	0	0	-1.12	-1.03	1	1	0	900	900	0
2/4/2025 19:30	66504	SMAN_T2	0	0	0	0	0	0	-0.98	-0.74	0	0	0	0	0	0
2/4/2025 19:30	67106	SPRI_T2	0	0	0	0	0	0	-1.24	-1.25	1	1	0	900	900	0
2/4/2025 19:30	61801	EELI_T2	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
2/4/2025 19:30	60701	BREC_T1	4	4	0	0.53	0.5	-0.03	-0.34	-0.33	1	1	0	600	600	0
2/4/2025 19:30	66505	SMAN_T2	2	3	1	0.3	0.57	0.27	0	0	0	0	0	0	0	0
2/4/2025 19:31	61701	ELIZ_T1	1	1	0	4.9	5	0.1	0.02	0.14	0	0	0	0	0	0
2/4/2025 19:31	64203	KINZ_T1	0	0	0	0	0	0	-0.38	-0.36	1	1	0	600	600	0
2/4/2025 19:31	64202	KINZ_T1	6	3	-3	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
2/4/2025 19:31	63501	HEID_TBK1-2	48	63	15	0.41	0.45	0.04	-0.53	-0.51	1	1	0	900	900	0
2/4/2025 19:31	46101	MACI_T2	0	0	0	0	0	0	0.77	0.78	0	0	0	0	0	0
2/4/2025 19:31	40101	HUNT_T2	6	8	2	0.67	1.04	0.37	-1.42	-1.38	0	0	0	0	0	0
2/4/2025 19:31	64802	MONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/4/2025 19:31	44902	SCOT_T2	255	543	288	0.18	0.36	0.18	0	0	0	0	0	0	0	0
2/4/2025 19:31	16102	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/4/2025 19:31	44901	SCOT_T2	0	7	7	0	0.14	0.14	-0.08	-0.12	0	0	0	0	0	0
2/4/2025 19:31	66505	SMAN_T2	2	3	1	0.3	0.57	0.27	0	0	0	0	0	0	0	0
2/4/2025 19:31	64801	MONE_T2	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
2/4/2025 19:31	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/4/2025 19:31	16101	BING_T2	0	1	1	0	0.2	0.2	0.32	0.39	0	0	0	0	0	0
2/4/2025 19:31	60701	BREC_T1	4	4	0	0.53	0.5	-0.03	-0.34	-0.33	1	1	0	600	600	0
2/4/2025 19:31	10801	CHHI_T1	1	1	0	0.3	0.1	-0.2	-1.41	-1.4	2	2	0	1500	1500	0
2/4/2025 19:31	13704	SOHN_T2	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
2/4/2025 19:31	66502	SMAN_T2	0	0	0	0	0	0	-0.12	-0.16	0	0	0	0	0	0
2/4/2025 19:31	24206	PROV_T4	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/4/2025 19:31	64201	KINZ_T1	7	7	0	0.46	0.31	-0.15	0	0	0	0	0	0	0	0
2/4/2025 19:31	65207	PRIN_T4	4	3	-1	2.08	3.4	1.32	0	0	0	0	0	0	0	0
2/4/2025 19:31	24202	PROV_T4	0	0	0	0	0	0	-0.71	-0.68	1	1	0	1200	1200	0
2/4/2025 19:31	64204	KINZ_T1	9	2	-7	0.23	0.45	0.22	0	0	0	0	0	0	0	0
2/4/2025 19:32	64802	MONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/4/2025 19:32	47901	HRDG_T1	0	0	0	0	0	0	0.68	0.81	0	0	0	0	0	0
2/4/2025 19:32	44201	POIN_T1	0	0	0	0	0	0	-2.15	-2.12	2	2	0	2100	2100	0
2/4/2025 19:32	42701	AUGU_T1	1	2	1	1	0	-1	0	0	2	2	0	1800	1800	0
2/4/2025 19:32	60701	BREC_T1	4	4	0	0.53	0.5	-0.03	-0.34	-0.33	1	1	0	600	600	0
2/4/2025 19:32	59101	WALK_T2	0	0	0	0	0	0	0.95	0.9	0	0	0	0	0	0
2/4/2025 19:32	40101	HUNT_T2	6	8	2	0.67	1.04	0.37	-1.42	-1.38	0	0	0	0	0	0
2/4/2025 19:32	66504	SMAN_T2	0	0	0	0	0	0	-0.49	-0.37	0	0	0	0	0	0
2/4/2025 19:32	44801	EDAN_T2	1	1	0	0.4	0.6	0.2	-0.42	-0.41	0	0	0	0	0	0
2/4/2025 19:32	66505	SMAN_T2	2	3	1	0.3	0.57	0.27	-0.46	-0.44	1	1	0	900	900	0
2/4/2025 19:32	40802	EXCH_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
2/4/2025 19:32	63501	HEID_TBK1-2	48	63	15	0.41	0.45	0.04	0	0	0	0	0	0	0	0
2/4/2025 19:32	62106	ELAN_T1	0	0	0	0	0	0	0.23	0.08	0	0	0	0	0	0
2/4/2025 19:32	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
2/4/2025 19:33	63501	HEID_TBK1-2	48	63	15	0.41	0.45	0.04	-0.53	-0.51	1	1	0	900	900	0
2/4/2025 19:33	16101	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/4/2025 19:33	43304	WATS_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/4/2025 19:33	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:33	61301	EARL_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
2/4/2025 19:33	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:33	48301	ORWI_T1	2	2	0	4.9	5.1	0.2	-0.42	-0.41	1	1	0	900	900	0
2/4/2025 19:33	61303	EARL_T1	0	0	0	0	0	0	0.44	0.37	0	0	0	0	0	0
2/4/2025 19:33	61306	EARL_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
2/4/2025 19:33	16102	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/4/2025 19:33	55002	NEWP_T1	1	2	1	0.2	0.55	0.35	-0.23	-0.22	0	0	0	0	0	0
2/4/2025 19:33	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	-1.24	-1.22	1	1	0	600	600	0
2/4/2025 19:33	10805	CHHI_T2	7	8	1	1.7	3.79	2.09	-0.82	-0.95	1	1	0	600	600	0
2/4/2025 19:33	63601	LETO_T1	0	0	0	0	0	0	2.45	1.44	1	1	0	900	900	0
2/4/2025 19:33	65205	PRIN_T1	2	1	-1	0.85	1	0.15	0	0	0	0	0	0	0	0
2/4/2025 19:33	24103	EHAZ_T1	9	6	-3	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
2/4/2025 19:33	24101	EHAZ_T1	31	32	1	1.93	2.54	0.61	0	0	0	0	0	0	0	0
2/4/2025 19:33	24102	EHAZ_T1	3	9	6	0.53	0.57	0.04	0	0	0	0	0	0	0	0
2/4/2025 19:33	24105	EHAZ_T1	14	6	-8	2.36	4.67	2.31	-0.64	-0.63	0	0	0	0	0	0
2/4/2025 19:33	57203	ROSS_T1	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
2/4/2025 19:33	17401	FOHI_T1	0	0	0	0	0	0	-1.03	-1.04	0	0	0	0	0	0
2/4/2025 19:33	60701	BREC_T1	4	4	0	0.53	0.5	-0.03	-0.34	-0.33	1	1	0	600	600	0
2/4/2025 19:33	40101	HUNT_T2	6	8	2	0.67	1.04	0.37	-2.84	-2.77	0	0	0	0	0	0
2/4/2025 19:34	44902	SCOT_T2	255	543	288	0.18	0.36	0.18	0	0	0	0	0	0	0	0
2/4/2025 19:34	44901	SCOT_T2	0	7	7	0	0.14	0.14	-0.08	-0.12	0	0	0	0	0	0
2/4/2025 19:34	57205	ROSS_T1	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
2/4/2025 19:34	64801	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:34	66504	SMAN_T2	0	0	0	0	0	0	-0.49	-0.37	0	0	0	0	0	0
2/4/2025 19:34	61302	EARL_T1	0	0	0	0	0	0	0.15	0.09	1	1	0	1200	1200	0
2/4/2025 19:34	63804	HEMP_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
2/4/2025 19:34	44505	HAMI_T2	0	0	0	0	0	0	-0.13	-0.1	0	0	0	0	0	0
2/4/2025 19:34	55002	NEWP_T1	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
2/4/2025 19:34	47101	MARL_T1	28	33	5	1.55	1.09	-0.46	-1.08	-0.98	1	1	0	600	600	0
2/4/2025 19:34	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:34	44502	HAMI_T2	1	1	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
2/4/2025 19:34	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:34	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:34	63802	HEMP_T1	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
2/4/2025 19:34	55001	NEWP_T1	0	0	0	0	0	0	-0.81	-0.84	1	1	0	600	600	0
2/4/2025 19:34	42401	GIMA_T1	11	35	24	0.15	0.19	0.04	0	0	0	0	0	0	0	0
2/4/2025 19:34	64802	MONE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/4/2025 19:34	66502	SMAN_T2	0	0	0	0	0	0	-0.24	-0.32	0	0	0	0	0	0
2/4/2025 19:34	66505	SMAN_T2	2	3	1	0.3	0.57	0.27	0	0	0	0	0	0	0	0
2/4/2025 19:34	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
2/4/2025 19:34	60701	BREC_T1	4	4	0	0.53	0.5	-0.03	-0.67	-0.66	2	2	0	1200	1200	0
2/4/2025 19:34	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:35	16101	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/4/2025 19:35	57203	ROSS_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
2/4/2025 19:35	67401	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:35	66505	SMAN_T2	2	3	1	0.3	0.57	0.27	0	0	0	0	0	0	0	0
2/4/2025 19:35	60201	ATGL_T2	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
2/4/2025 19:35	54503	ENOL_T2	0	0	0	0	0	0	-0.35	-0.39	1	1	0	600	600	0
2/4/2025 19:35	66502	SMAN_T2	0	0	0	0	0	0	-0.24	-0.32	0	0	0	0	0	0
2/4/2025 19:35	40101	HUNT_T2	6	8	2	0.67	1.04	0.37	-1.42	-1.38	0	0	0	0	0	0
2/4/2025 19:35	63804	HEMP_T1	1	1	0	6.5	6.3	-0.2	0.49	0.49	0	0	0	0	0	0
2/4/2025 19:35	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/4/2025 19:35	60502	NMAN_T2	0	0	0	0	0	0	-0.31	-0.35	0	0	0	0	0	0
2/4/2025 19:35	16102	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/4/2025 19:35	57201	ROSS_T1	0	0	0	0	0	0	-0.58	-0.65	0	0	0	0	0	0
2/4/2025 19:35	55002	NEWP_T1	1	2	1	0.2	0.55	0.35	-0.46	-0.44	0	0	0	0	0	0
2/4/2025 19:35	40601	PIGR_T1	20	30	10	0.18	0.19	0.01	0	0	0	0	0	0	0	0
2/4/2025 19:35	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:35	63802	HEMP_T1	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
2/4/2025 19:35	40201	BEGA_T2	2	4	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/4/2025 19:35	54601	SUMM_T2	1	1	0	0.4	0.4	0	-1.74	-1.78	2	2	0	2100	2100	0
2/4/2025 19:35	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:35	40802	EXCH_T2	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
2/4/2025 19:36	40201	BEGA_T2	2	4	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/4/2025 19:36	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:36	53803	MBRG_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
2/4/2025 19:36	62105	ELAN_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
2/4/2025 19:36	61304	EARL_T1	0	0	0	0	0	0	-0.98	-0.96	1	1	0	600	600	0
2/4/2025 19:36	60701	BREC_T1	4	4	0	0.53	0.5	-0.03	-0.33	-0.31	1	1	0	600	600	0
2/4/2025 19:36	66505	SMAN_T2	2	3	1	0.3	0.57	0.27	-0.89	-1.11	2	2	0	1800	1800	0
2/4/2025 19:36	42903	MIDD_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
2/4/2025 19:36	42902	MIDD_T2	0	1	1	0	0	0	-0.57	-0.24	0	0	0	0	0	0
2/4/2025 19:36	63804	HEMP_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
2/4/2025 19:36	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
2/4/2025 19:36	44201	POIN_T1	0	0	0	0	0	0	-2.12	-2.19	2	2	0	2100	2100	0
2/4/2025 19:36	54601	SUMM_T2	1	1	0	0.4	0.4	0	-3.49	-3.55	4	4	0	4200	4200	0
2/4/2025 19:36	46004	BERW_T2	4	4	0	0.93	0.8	-0.13	-0.43	-0.37	0	0	0	0	0	0
2/4/2025 19:36	44301	BEAV_T2	0	0	0	0	0	0	-1.12	-1.1	2	2	0	1200	1200	0
2/4/2025 19:36	67402	WAKE_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
2/4/2025 19:36	63803	HEMP_T1	0	0	0	0	0	0	0.6	0.57	0	0	0	0	0	0
2/4/2025 19:36	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:36	54503	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:36	40101	HUNT_T2	6	8	2	0.67	1.04	0.37	-1.38	-1.42	0	0	0	0	0	0
2/4/2025 19:36	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/4/2025 19:37	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/4/2025 19:37	45501	DERR_T2	1	2	1	0.1	0	-0.1	0.78	0.84	4	4	0	3600	3600	0
2/4/2025 19:37	52402	GRPA_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/4/2025 19:37	10801	CHHI_T1	1	1	0	0.3	0.1	-0.2	-2.8	-2.76	4	4	0	3000	3000	0
2/4/2025 19:37	53901	HALI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/4/2025 19:37	53903	HALI_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
2/4/2025 19:37	40101	HUNT_T2	6	8	2	0.67	1.04	0.37	-1.38	-1.42	0	0	0	0	0	0
2/4/2025 19:37	57201	ROSS_T1	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
2/4/2025 19:37	40601	PIGR_T1	20	30	10	0.18	0.19	0.01	-0.17	-0.16	0	0	0	0	0	0
2/4/2025 19:37	60902	DONG_T2	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
2/4/2025 19:37	54501	ENOL_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
2/4/2025 19:37	54601	SUMM_T2	1	1	0	0.4	0.4	0	-3.55	-3.52	4	4	0	4200	4200	0
2/4/2025 19:37	47103	MARL_T2	220	231	11	0.72	0.65	-0.07	-0.47	-0.45	0	0	0	0	0	0
2/4/2025 19:37	52403	GRPA_T2	14	10	-4	0.67	0.65	-0.02	0	0	0	0	0	0	0	0
2/4/2025 19:37	55001	NEWP_T1	0	0	0	0	0	0	-0.84	-0.79	1	1	0	600	600	0
2/4/2025 19:37	47102	MARL_T2	72	75	3	1.01	0.99	-0.02	0	0	0	0	0	0	0	0
2/4/2025 19:37	43304	WATS_T2	2	0	-2	0.3	0	-0.3	0.23	0.18	1	1	0	600	600	0
2/4/2025 19:37	62106	ELAN_T1	0	0	0	0	0	0	0.08	0.01	0	0	0	0	0	0
2/4/2025 19:37	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
2/4/2025 19:37	64802	MONE_T2	1	0	-1	0.1	0	-0.1	-0.05	-0.05	0	0	0	0	0	0
2/4/2025 19:37	44801	EDAN_T2	1	1	0	0.4	0.6	0.2	-0.41	-0.39	0	0	0	0	0	0
2/4/2025 19:37	55002	NEWP_T1	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
2/4/2025 19:37	63804	HEMP_T1	1	1	0	6.5	6.3	-0.2	0.49	0.49	0	0	0	0	0	0
2/4/2025 19:37	18001	ZION_T1	2	2	0	8.3	8.55	0.25	0	0	0	0	0	0	0	0
2/4/2025 19:37	60201	ATGL_T2	0	0	0	0	0	0	0.9	0.89	0	0	0	0	0	0
2/4/2025 19:37	67106	SPRI_T2	0	0	0	0	0	0	-1.25	-1.24	1	1	0	900	900	0
2/4/2025 19:37	44201	POIN_T1	0	0	0	0	0	0	-6.36	-6.57	6	6	0	6300	6300	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/4/2025 19:37	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
2/4/2025 19:37	46802	HEPB_T1	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
2/4/2025 19:37	53902	HALI_T2	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
2/4/2025 19:37	45502	DERR_T2	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/4/2025 19:37	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:37	58102	NERI_T1	1	1	0	0.4	0.6	0.2	0.33	0.36	0	0	0	0	0	0
2/4/2025 19:38	54503	ENOL_T2	0	0	0	0	0	0	-1.17	-1.14	3	3	0	1800	1800	0
2/4/2025 19:38	55002	NEWP_T1	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
2/4/2025 19:38	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.06	1	1	0	600	600	0
2/4/2025 19:38	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/4/2025 19:38	24103	EHAZ_T1	9	6	-3	0.34	0.1	-0.24	0	0	0	0	0	0	0	0
2/4/2025 19:38	57205	ROSS_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
2/4/2025 19:38	42701	AUGU_T1	1	2	1	1	0	-1	0	0	2	2	0	1800	1800	0
2/4/2025 19:38	43402	BENT_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	900	900	0
2/4/2025 19:38	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
2/4/2025 19:38	67402	WAKE_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
2/4/2025 19:38	24104	EHAZ_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	1200	1200	0
2/4/2025 19:38	43401	BENT_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 19:38	44902	SCOT_T2	255	543	288	0.18	0.36	0.18	-0.94	-0.96	0	0	0	0	0	0
2/4/2025 19:38	24102	EHAZ_T1	3	9	6	0.53	0.57	0.04	0	0	0	0	0	0	0	0
2/4/2025 19:38	63602	LETO_T1	0	0	0	0	0	0	-0.44	-0.48	0	0	0	0	0	0
2/4/2025 19:38	66505	SMAN_T2	2	3	1	0.3	0.57	0.27	0	0	0	0	0	0	0	0
2/4/2025 19:38	40602	PIGR_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
2/4/2025 19:38	59101	WALK_T2	0	0	0	0	0	0	0.9	1.18	0	0	0	0	0	0
2/4/2025 19:38	53101	WTWN_T1	3	2	-1	1.33	0.6	-0.73	0	0	0	0	0	0	0	0
2/4/2025 19:38	24101	EHAZ_T1	31	32	1	1.93	2.54	0.61	0	0	0	0	0	0	0	0
2/4/2025 19:38	52501	PROG_T1	0	0	0	0	0	0	0.96	0.96	2	2	0	600	600	0
2/4/2025 19:38	52001	LING_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
2/4/2025 19:38	40201	BEGA_T2	2	4	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/4/2025 19:38	60701	BREC_T1	4	4	0	0.53	0.5	-0.03	-0.33	-0.31	1	1	0	600	600	0
2/4/2025 19:38	53102	WTWN_T1	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
2/4/2025 19:38	46004	BERW_T2	4	4	0	0.93	0.8	-0.13	-0.43	-0.37	0	0	0	0	0	0
2/4/2025 19:38	45802	HEGI_T2	48	47	-1	1.22	1.79	0.57	0.5	0.52	0	0	0	0	0	0
2/4/2025 19:38	61502	EPET_T1	0	0	0	0	0	0	-0.75	-0.7	0	0	0	0	0	0
2/4/2025 19:38	44901	SCOT_T2	0	7	7	0	0.14	0.14	0	0	0	0	0	0	0	0
2/4/2025 19:38	40601	PIGR_T1	20	30	10	0.18	0.19	0.01	0	0	0	0	0	0	0	0
2/4/2025 19:38	41602	CLEV_T1	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/4/2025 19:38	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:38	44201	POIN_T1	0	0	0	0	0	0	-2.12	-2.19	2	2	0	2100	2100	0
2/4/2025 19:38	24105	EHAZ_T1	14	6	-8	2.36	4.67	2.31	0	0	0	0	0	0	0	0
2/4/2025 19:38	57201	ROSS_T1	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
2/4/2025 19:38	55001	NEWP_T1	0	0	0	0	0	0	-0.84	-0.79	1	1	0	600	600	0
2/4/2025 19:39	63804	HEMP_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
2/4/2025 19:39	40601	PIGR_T1	20	30	10	0.18	0.19	0.01	-0.35	-0.32	0	0	0	0	0	0
2/4/2025 19:39	44502	HAMI_T2	1	1	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
2/4/2025 19:39	44901	SCOT_T2	0	7	7	0	0.14	0.14	0	0	0	0	0	0	0	0
2/4/2025 19:39	54601	SUMM_T2	1	1	0	0.4	0.4	0	-1.78	-1.76	2	2	0	2100	2100	0
2/4/2025 19:39	66504	SMAN_T2	0	0	0	0	0	0	-0.37	-0.44	0	0	0	0	0	0
2/4/2025 19:39	60701	BREC_T1	4	4	0	0.53	0.5	-0.03	-0.66	-0.61	2	2	0	1200	1200	0
2/4/2025 19:39	43802	SWIL_T1	0	0	0	0	0	0	-0.14	-0.15	1	1	0	600	600	0
2/4/2025 19:39	57205	ROSS_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
2/4/2025 19:39	45802	HEGI_T2	48	47	-1	1.22	1.79	0.57	0.5	0.52	0	0	0	0	0	0
2/4/2025 19:39	43801	SWIL_T1	2	2	0	3.35	3.35	0	0	0	0	0	0	0	0	0
2/4/2025 19:39	44902	SCOT_T2	255	543	288	0.18	0.36	0.18	-0.94	-0.96	0	0	0	0	0	0
2/4/2025 19:39	54504	ENOL_T2	0	0	0	0	0	0	-1.04	-1.05	1	1	0	600	600	0
2/4/2025 19:39	66505	SMAN_T2	2	3	1	0.3	0.57	0.27	0	0	0	0	0	0	0	0
2/4/2025 19:39	58402	MORO_T1	0	0	0	0	0	0	-0.37	-0.38	3	3	0	1950	1950	0
2/4/2025 19:39	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:39	41602	CLEV_T1	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/4/2025 19:39	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	-1.22	-1.22	1	1	0	600	600	0
2/4/2025 19:39	41902	REED_T1	17	21	4	0.79	0.3	-0.49	1.12	1.12	0	0	0	0	0	0
2/4/2025 19:39	63801	HEMP_T1	0	0	0	0	0	0	-0.14	0.27	0	0	0	0	0	0
2/4/2025 19:39	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:39	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
2/4/2025 19:39	52402	GRPA_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/4/2025 19:39	52403	GRPA_T2	14	10	-4	0.67	0.65	-0.02	0	0	0	0	0	0	0	0
2/4/2025 19:39	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:39	44505	HAMI_T2	0	0	0	0	0	0	-0.1	0.21	0	0	0	0	0	0
2/4/2025 19:39	55105	WERT_T1	0	0	0	0	0	0	-0.49	-0.47	1	1	0	900	900	0
2/4/2025 19:40	53801	MBRG_T2	0	0	0	0	0	0	-0.58	-0.57	0	0	0	0	0	0
2/4/2025 19:40	40601	PIGR_T1	20	30	10	0.18	0.19	0.01	0	0	0	0	0	0	0	0
2/4/2025 19:40	54603	SUMM_T2	0	0	0	0	0	0	-0.43	-0.43	1	1	0	900	900	0
2/4/2025 19:40	41602	CLEV_T1	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/4/2025 19:40	66505	SMAN_T2	2	3	1	0.3	0.57	0.27	0	0	0	0	0	0	0	0
2/4/2025 19:40	44502	HAMI_T2	1	1	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
2/4/2025 19:40	63804	HEMP_T1	1	1	0	6.5	6.3	-0.2	0.49	0.49	0	0	0	0	0	0
2/4/2025 19:40	44301	BEAV_T2	0	0	0	0	0	0	-0.56	-0.55	1	1	0	600	600	0
2/4/2025 19:40	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/4/2025 19:40	54601	SUMM_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/4/2025 19:40	47203	FAXO_T2	1	1	0	3	3	0	-1.7	-1.71	1	1	0	1200	1200	0
2/4/2025 19:40	58202	NEWV_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
2/4/2025 19:40	67502	WEWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:40	60701	BREC_T1	4	4	0	0.53	0.5	-0.03	-0.33	-0.31	1	1	0	600	600	0
2/4/2025 19:40	61803	EELI_T2	0	0	0	0	0	0	0.8	0.78	0	0	0	0	0	0
2/4/2025 19:40	54503	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:40	54502	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:40	40701	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:40	52501	PROG_T1	0	0	0	0	0	0	0.96	0.96	2	2	0	600	600	0
2/4/2025 19:40	58401	MORO_T1	0	0	0	0	0	0	-2.15	-2.12	2	2	0	1200	1200	0
2/4/2025 19:40	61001	DONV_T1	0	0	0	0	0	0	-0.33	-0.29	0	0	0	0	0	0
2/4/2025 19:40	58201	NEWV_T1	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
2/4/2025 19:40	66504	SMAN_T2	0	0	0	0	0	0	-0.37	-0.44	0	0	0	0	0	0
2/4/2025 19:40	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:40	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:40	61304	EARL_T1	0	0	0	0	0	0	-0.98	-0.96	1	1	0	600	600	0
2/4/2025 19:41	63801	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:41	13704	SCHN_T2	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
2/4/2025 19:41	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:41	63804	HEMP_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
2/4/2025 19:41	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
2/4/2025 19:41	44301	BEAV_T2	0	0	0	0	0	0	-0.56	-0.55	1	1	0	600	600	0
2/4/2025 19:41	54601	SUMM_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/4/2025 19:41	42902	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:41	42601	TUSC_T1	17	22	5	0.77	0.5	-0.27	-0.03	-0.23	2	2	0	1800	1800	0
2/4/2025 19:41	57201	ROSS_T1	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
2/4/2025 19:41	41602	CLEV_T1	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/4/2025 19:41	64201	KINZ_T1	7	7	0	0.46	0.31	-0.15	0	0	0	0	0	0	0	0
2/4/2025 19:41	44901	SCOT_T2	0	7	7	0	0.14	0.14	0	0	0	0	0	0	0	0
2/4/2025 19:41	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:41	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
2/4/2025 19:41	60701	BREC_T1	4	4	0	0.53	0.5	-0.03	-0.33	-0.31	1	1	0	600	600	0
2/4/2025 19:41	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	-1.22	-1.22	1	1	0	600	600	0
2/4/2025 19:41	61802	EELI_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
2/4/2025 19:41	67401	WAKE_T2	0	0	0	0	0	0	-1.17	-1.16	0	0	0	0	0	0
2/4/2025 19:41	64202	KINZ_T1	6	3	-3	0.15	0.1	-0.05	0.65	0.65	0	0	0	0	0	0
2/4/2025 19:41	54603	SUMM_T2	0	0	0	0	0	0	-0.43	-0.43	1	1	0	900	900	0
2/4/2025 19:41	64204	KINZ_T1	9	2	-7	0.23	0.45	0.22	0	0	0	0	0	0	0	0
2/4/2025 19:41	42903	MIDD_T2	2	2	0	0.55	0.65	0.1	-1.39	-1.39	1	1	0	1200	1200	0
2/4/2025 19:41	61801	EELI_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
2/4/2025 19:41	63501	HEID_TBK1-2	48	63	15	0.41	0.45	0.04	-1.03	-1	2	2	0	1800	1800	0
2/4/2025 19:41	44902	SCOT_T2	255	543	288	0.18	0.36	0.18	-0.94	-0.96	0	0	0	0	0	0
2/4/2025 19:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:41	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:41	55002	NEWP_T1	1	2	1	0.2	0.55	0.35	-0.22	-0.22	0	0	0	0	0	0
2/4/2025 19:41	66505	SMAN_T2	2	3	1	0.3	0.57	0.27	0	0	0	0	0	0	0	0
2/4/2025 19:42	67401	WAKE_T2	0	0	0	0	0	0	-1.17	-1.16	0	0	0	0	0	0
2/4/2025 19:42	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/4/2025 19:42	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:42	52402	GRPA_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/4/2025 19:42	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:42	42902	MIDD_T2	0	1	1	0	0	0	-0.57	-0.24	0	0	0	0	0	0
2/4/2025 19:42	55105	WERT_T1	0	0	0	0	0	0	-0.49	-0.47	1	1	0	900	900	0
2/4/2025 19:42	53501	EVIL_T2	1	2	1	0.6	0.35	-0.25	-0.85	-0.75	1	1	0	600	600	0
2/4/2025 19:42	67402	WAKE_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
2/4/2025 19:42	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.06	1	1	0	600	600	0
2/4/2025 19:42	64203	KINZ_T1	0	0	0	0	0	0	-0.36	0.33	1	0	-1	600	0	-600
2/4/2025 19:42	64201	KINZ_T1	7	7	0	0.46	0.31	-0.15	0	0	0	0	0	0	0	0
2/4/2025 19:42	64202	KINZ_T1	6	3	-3	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
2/4/2025 19:42	54601	SUMM_T2	1	1	0	0.4	0.4	0	-1.78	-1.76	2	2	0	2100	2100	0
2/4/2025 19:42	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
2/4/2025 19:42	40101	HUNT_T2	6	8	2	0.67	1.04	0.37	-1.38	-1.42	0	0	0	0	0	0
2/4/2025 19:42	42903	MIDD_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
2/4/2025 19:42	52501	PROG_T1	0	0	0	0	0	0	0.48	0.48	1	1	0	300	300	0
2/4/2025 19:42	64204	KINZ_T1	9	2	-7	0.23	0.45	0.22	0	0	0	0	0	0	0	0
2/4/2025 19:42	54503	ENOL_T2	0	0	0	0	0	0	-0.39	-0.38	1	1	0	600	600	0
2/4/2025 19:42	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:42	60701	BREC_T1	4	4	0	0.53	0.5	-0.03	-0.33	-0.31	1	1	0	600	600	0
2/4/2025 19:42	66505	SMAN_T2	2	3	1	0.3	0.57	0.27	0	0	0	0	0	0	0	0
2/4/2025 19:42	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
2/4/2025 19:42	52403	GRPA_T2	14	10	-4	0.67	0.65	-0.02	-0.49	-0.53	0	0	0	0	0	0
2/4/2025 19:43	52004	LING_T2	2	2	0	5.35	5.4	0.05	0.24	0.27	0	0	0	0	0	0
2/4/2025 19:43	21501	CEAV_T2	0	0	0	0	0	0	-0.32	-0.32	1	1	0	1200	1200	0
2/4/2025 19:43	53501	EVIL_T2	1	2	1	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
2/4/2025 19:43	64802	MONE_T2	1	0	-1	0.1	0	-0.1	-0.05	-0.05	0	0	0	0	0	0
2/4/2025 19:43	66503	SMAN_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
2/4/2025 19:43	63501	HEID_TBK1-2	48	63	15	0.41	0.45	0.04	-0.51	-0.5	1	1	0	900	900	0
2/4/2025 19:43	66505	SMAN_T2	2	3	1	0.3	0.57	0.27	0	0	0	0	0	0	0	0
2/4/2025 19:43	61304	EARL_T1	0	0	0	0	0	0	-0.98	-0.96	1	1	0	600	600	0
2/4/2025 19:43	41902	REED_T1	17	21	4	0.79	0.3	-0.49	1.12	1.12	0	0	0	0	0	0
2/4/2025 19:43	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:43	63804	HEMP_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
2/4/2025 19:43	55002	NEWP_T1	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
2/4/2025 19:43	55001	NEWP_T1	0	0	0	0	0	0	-1.68	-1.59	2	2	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/4/2025 19:43	63803	HEMP_T1	0	0	0	0	0	0	0.6	0.57	0	0	0	0	0	0
2/4/2025 19:43	52102	MEIS_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
2/4/2025 19:43	67401	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:44	63602	LETO_T1	0	0	0	0	0	0	-0.44	-0.48	0	0	0	0	0	0
2/4/2025 19:44	44901	SCOT_T2	0	7	7	0	0.14	0.14	-0.12	0.05	0	0	0	0	0	0
2/4/2025 19:44	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:44	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
2/4/2025 19:44	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.06	1	1	0	600	600	0
2/4/2025 19:44	43304	WATS_T2	2	0	-2	0.3	0	-0.3	0.23	0.18	1	1	0	600	600	0
2/4/2025 19:44	44902	SCOT_T2	255	543	288	0.18	0.36	0.18	0	0	0	0	0	0	0	0
2/4/2025 19:45	41902	REED_T1	19	12	-7	0.46	0.29	-0.17	1.12	1.12	0	0	0	0	0	0
2/4/2025 19:45	44201	POIN_T1	0	0	0	0	0	0	-2.12	-2.19	2	2	0	2100	2100	0
2/4/2025 19:45	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
2/4/2025 19:45	61304	EARL_T1	0	0	0	0	0	0	-0.98	-0.96	1	1	0	600	600	0
2/4/2025 19:45	64802	MONE_T2	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
2/4/2025 19:45	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
2/4/2025 19:45	54502	ENOL_T2	0	0	0	0	0	0	-1.97	-1.96	1	1	0	600	600	0
2/4/2025 19:46	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:46	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
2/4/2025 19:46	55105	WERT_T1	0	0	0	0	0	0	-0.49	-0.47	1	1	0	900	900	0
2/4/2025 19:46	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 19:46	66505	SMAN_T2	1	3	2	0.1	0.83	0.73	0	0	0	0	0	0	0	0
2/4/2025 19:46	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
2/4/2025 19:46	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.06	1	1	0	600	600	0
2/4/2025 19:46	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
2/4/2025 19:46	63804	HEMP_T1	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
2/4/2025 19:46	67402	WAKE_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
2/4/2025 19:46	44905	SCOT_T1	0	8	8	0	0.86	0.86	0	0	0	0	0	0	0	0
2/4/2025 19:46	54503	ENOL_T2	0	0	0	0	0	0	-0.39	-0.38	1	1	0	600	600	0
2/4/2025 19:47	58201	NEWV_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
2/4/2025 19:47	52403	GRPA_T2	6	9	3	0.58	0.75	0.17	-0.49	-0.53	0	0	0	0	0	0
2/4/2025 19:47	44301	BEAV_T2	0	0	0	0	0	0	-0.56	-0.55	1	1	0	600	600	0
2/4/2025 19:47	52402	GRPA_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
2/4/2025 19:47	58202	NEWV_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
2/4/2025 19:48	64904	MILL_T1	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
2/4/2025 19:48	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	-1.22	-1.22	1	1	0	600	600	0
2/4/2025 19:50	55105	WERT_T1	0	0	0	0	0	0	-0.49	-0.47	1	1	0	900	900	0
2/4/2025 19:50	55002	NEWP_T1	2	3	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
2/4/2025 19:50	55001	NEWP_T1	0	0	0	0	0	0	-0.84	-0.79	1	1	0	600	600	0
2/4/2025 19:51	54501	ENOL_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
2/4/2025 19:51	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
2/4/2025 20:09	41902	REED_T1	10	12	2	0.32	0.3	-0.02	1.1	1.15	0	0	0	0	0	0
2/4/2025 20:11	44902	SCOT_T2	542	519	-23	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
2/4/2025 20:11	44901	SCOT_T2	7	3	-4	0.14	0.13	-0.01	-0.04	0.01	0	0	0	0	0	0
2/4/2025 20:15	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2025 20:21	17802	GILB_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
2/4/2025 20:29	13702	SCHN_T1	0	0	0	0	0	0	0.69	0.71	0	0	0	0	0	0
2/4/2025 21:30	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
2/4/2025 21:30	54503	ENOL_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
2/4/2025 21:30	54502	ENOL_T2	1	1	0	0.2	0.4	0.2	-1.96	-1.95	1	1	0	600	600	0
2/4/2025 23:32	60701	BREC_T1	0	0	0	0	0	0	-0.42	-0.47	1	1	0	600	600	0
2/5/2025 0:47	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 2:29	42501	ALTA_T2	0	0	0	0	0	0	-0.11	-0.14	1	1	0	600	600	0
2/5/2025 5:44	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	2	2	0	1200	1200
2/5/2025 8:23	43304	WATS_T2	0	0	0	0	0	0	-1.03	-0.85	0	0	0	0	0	0
2/5/2025 8:24	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 8:25	43304	WATS_T2	0	0	0	0	0	0	-1.03	-0.85	0	0	0	0	0	0
2/5/2025 8:26	43304	WATS_T2	0	0	0	0	0	0	-1.03	-0.85	0	0	0	0	0	0
2/5/2025 8:37	13702	SCHN_T1	0	0	0	0	0	0	0.75	0.78	0	0	0	0	0	0
2/5/2025 8:41	16101	BING_T2	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
2/5/2025 8:41	16102	BING_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
2/5/2025 8:43	16102	BING_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
2/5/2025 8:44	44801	EDAN_T2	1	0	-1	0.6	0	-0.6	-1.01	-1.06	0	0	0	0	0	0
2/5/2025 8:45	53501	EVIL_T2	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
2/5/2025 8:45	53502	EVIL_T2	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
2/5/2025 8:50	55002	NEWP_T1	4	3	-1	0.53	0.57	0.04	-0.18	-0.2	0	0	0	0	0	0
2/5/2025 8:51	13302	ORVI_T2	0	0	0	0	0	0	0.98	1	0	0	0	0	0	0
2/5/2025 8:53	27605	PIRI_T2	0	0	0	0	0	0	-1.53	-1.63	1	1	0	900	900	0
2/5/2025 8:55	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 8:55	45501	DERR_T2	0	0	0	0	0	0	0.66	0.72	2	2	0	1800	1800	0
2/5/2025 9:00	57205	ROSS_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
2/5/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
2/5/2025 9:00	45502	DERR_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/5/2025 9:00	28102	TWLA_T2	2	2	0	0.2	0	-0.2	0.28	0.28	0	0	0	0	0	0
2/5/2025 9:00	45501	DERR_T2	0	0	0	0	0	0	0.66	0.72	2	2	0	1800	1800	0
2/5/2025 9:01	11004	EGRE_T2	5	2	-3	2.04	1.05	-0.99	0	0	0	0	0	0	0	0
2/5/2025 9:01	11003	EGRE_T2	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
2/5/2025 9:01	40101	HUNT_T2	22	14	-8	0.7	0.76	0.06	-0.48	-0.48	0	0	0	0	0	0
2/5/2025 9:05	64904	MILL_T1	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
2/5/2025 9:06	16902	MECK_T1	36	0	-36	0.54	0	-0.54	-1.09	0.1	0	0	0	0	0	0
2/5/2025 9:07	57201	ROSS_T1	0	0	0	0	0	0	-0.4	-0.46	0	0	0	0	0	0
2/5/2025 9:07	44902	SCOT_T2	3	90	87	0.2	0.16	-0.04	-0.9	-0.87	0	0	0	0	0	0
2/5/2025 9:07	13302	ORVI_T2	0	0	0	0	0	0	1	0.96	0	0	0	0	0	0
2/5/2025 9:08	57201	ROSS_T1	0	0	0	0	0	0	-0.4	-0.46	0	0	0	0	0	0
2/5/2025 9:09	59102	WALK_T2	0	0	0	0	0	0	-0.27	-0.3	1	1	0	600	600	0
2/5/2025 9:09	66901	SHIL_T2	0	0	0	0	0	0	-3.09	-3.06	2	2	0	2400	2400	0
2/5/2025 9:12	24105	EHAZ_T1	4	4	0	6.08	6.13	0.05	0	0	0	0	0	0	0	0
2/5/2025 9:12	24101	EHAZ_T1	36	46	10	1.06	0.5	-0.56	0	0	0	0	0	0	0	0
2/5/2025 9:12	24104	EHAZ_T1	32	17	-15	0.18	0.15	-0.03	-2.16	-2.16	1	1	0	1200	1200	0
2/5/2025 9:13	44501	HAMI_T2	3	1	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/5/2025 9:13	44502	HAMI_T2	1	1	0	2	2	0	0	0	0	0	0	0	0	0
2/5/2025 9:13	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 9:13	29402	BELT_T1	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0	0
2/5/2025 9:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/5/2025 9:14	44505	HAMI_T2	0	0	0	0	0	0	0.36	-0.01	0	0	0	0	0	0
2/5/2025 9:14	44502	HAMI_T2	1	1	0	2	2	0	0	0	0	0	0	0	0	0
2/5/2025 9:14	44501	HAMI_T2	3	1	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/5/2025 9:15	44501	HAMI_T2	1	3	2	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/5/2025 9:15	40801	EXCH_T2	2	0	-2	0.15	0	-0.15	-1.38	-1.3	3	3	0	3600	3600	0
2/5/2025 9:15	44505	HAMI_T2	0	0	0	0	0	0	0.36	-0.01	0	0	0	0	0	0
2/5/2025 9:15	44502	HAMI_T2	1	1	0	2	2	0	0	0	0	0	0	0	0	0
2/5/2025 9:16	40801	EXCH_T2	2	0	-2	0.15	0	-0.15	-0.92	-0.86	2	2	0	2400	2400	0
2/5/2025 9:16	26402	INOR_T1	0	0	0	0	0	0	-1.73	-1.68	1	1	0	600	600	0
2/5/2025 9:16	26401	INOR_T1	82	63	-19	0.81	0.53	-0.28	0	0	0	0	0	0	0	0
2/5/2025 9:17	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 9:17	53501	EVIL_T2	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0	0
2/5/2025 9:17	61503	EPET_T1	0	0	0	0	0	0	-0.95	-1	0	0	0	0	0	0
2/5/2025 9:18	13503	MCMI_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
2/5/2025 9:19	44502	HAMI_T2	1	1	0	2	2	0	0	0	0	0	0	0	0	0
2/5/2025 9:19	44501	HAMI_T2	1	3	2	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/5/2025 9:19	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 9:19	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 9:21	44901	SCOT_T2	0	0	0	0	0	0	0.19	0.31	0	0	0	0	0	0
2/5/2025 9:21	44902	SCOT_T2	3	91	88	0.23	0.16	-0.07	0	0	0	0	0	0	0	0
2/5/2025 9:21	13503	MCMI_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
2/5/2025 9:22	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 9:23	44902	SCOT_T2	3	91	88	0.23	0.16	-0.07	0	0	0	0	0	0	0	0
2/5/2025 9:23	43304	WATS_T2	0	1	1	0	0	0	-0.67	-0.39	0	0	0	0	0	0
2/5/2025 9:23	44901	SCOT_T2	0	0	0	0	0	0	0.19	0.31	0	0	0	0	0	0
2/5/2025 9:25	44902	SCOT_T2	3	91	88	0.23	0.16	-0.07	-0.87	-0.89	0	0	0	0	0	0
2/5/2025 9:26	43304	WATS_T2	0	1	1	0	0	0	-0.67	-0.39	0	0	0	0	0	0
2/5/2025 9:27	45501	DERR_T2	0	0	0	0	0	0	0.64	0.65	2	2	0	1800	1800	0
2/5/2025 9:32	20601	GRWO_T2	7	6	-1	0.41	0.9	0.49	0.6	0.63	0	0	0	0	0	0
2/5/2025 9:32	65205	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 9:35	27605	PIRI_T2	0	0	0	0	0	0	-1.61	-1.75	1	1	0	900	900	0
2/5/2025 9:37	55002	NEWP_T1	1	5	4	0.3	0.54	0.24	-0.2	-0.18	0	0	0	0	0	0
2/5/2025 9:38	67703	WERN_T2	0	0	0	0	0	0	-0.8	-0.79	1	1	0	900	900	0
2/5/2025 9:41	60701	BREC_T1	0	0	0	0	0	0	-0.28	-0.28	1	1	0	600	600	0
2/5/2025 9:48	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 9:48	65207	PRIN_T4	2	4	2	3.45	3.53	0.08	0	0	0	0	0	0	0	0
2/5/2025 9:48	65206	PRIN_T4	1	1	0	0.7	4.8	4.1	0	0	0	0	0	0	0	0
2/5/2025 9:50	65702	RVIL_T2	0	0	0	0	0	0	-1.45	-1.37	1	1	0	600	600	0
2/5/2025 9:51	65702	RVIL_T2	0	0	0	0	0	0	-2.74	-2.82	2	2	0	1200	1200	0
2/5/2025 9:52	67402	WAKE_T2	0	0	0	0	0	0	0.46	0.46	1	1	0	600	600	0
2/5/2025 9:52	24202	PROV_T4	0	0	0	0	0	0	-0.74	-0.7	1	1	0	1200	1200	0
2/5/2025 9:54	65702	RVIL_T2	0	0	0	0	0	0	-1.37	-1.41	1	1	0	600	600	0
2/5/2025 9:54	29402	BELT_T1	1	1	0	7	7.3	0.3	0	0	0	0	0	0	0	0
2/5/2025 9:54	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 9:54	58202	NEWV_T1	0	6	6	0	0.5	0.5	0.11	0.05	0	0	0	0	0	0
2/5/2025 9:55	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 9:56	61304	EARL_T1	0	0	0	0	0	0	-0.71	-0.56	1	1	0	600	600	0
2/5/2025 9:58	61301	EARL_T1	0	0	0	0	0	0	-0.4	0.25	1	0	-1	900	0	-900
2/5/2025 9:58	45501	DERR_T2	0	0	0	0	0	0	0.58	0.61	2	2	0	1800	1800	0
2/5/2025 9:58	27901	BCRK_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
2/5/2025 9:59	29402	BELT_T1	1	1	0	7	7.3	0.3	0	0	0	0	0	0	0	0
2/5/2025 9:59	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-1.02	1	1	0	600	600	0
2/5/2025 9:59	54502	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/5/2025 9:59	54503	ENOL_T2	0	5	5	0	0.18	0.18	-1	-1.1	3	3	0	1800	1800	0
2/5/2025 9:59	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 9:59	10801	CHHI_T1	0	1	1	0	0.2	0.2	-1.91	-1.27	3	2	-1	2100	1500	-600
2/5/2025 9:59	29401	BELT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 10:00	54501	ENOL_T2	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
2/5/2025 10:00	54505	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
2/5/2025 10:00	54504	ENOL_T2	0	0	0	0	0	0	-1.96	-2.03	2	2	0	1200	1200	0
2/5/2025 10:00	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/5/2025 10:00	54503	ENOL_T2	5	5	0	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
2/5/2025 10:01	54505	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
2/5/2025 10:01	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/5/2025 10:01	54503	ENOL_T2	5	5	0	0.18	0.1	-0.08	-0.67	-0.73	2	2	0	1200	1200	0
2/5/2025 10:01	40101	HUNT_T2	17	30	13	0.71	0.78	0.07	-0.5	-0.37	0	0	0	0	0	0
2/5/2025 10:01	54506	ENOL_T2	0	0	0	0	0	0	0.62	0.65	0	2	2	0	1200	1200
2/5/2025 10:02	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/5/2025 10:02	54504	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/5/2025 10:02	23401	HONE_T2	26	6	-20	0.53	0.8	0.27	0.25	0.21	0	0	0	0	0	0
2/5/2025 10:02	54503	ENOL_T2	5	5	0	0.18	0.1	-0.08	-0.67	-0.73	2	2	0	1200	1200	0
2/5/2025 10:02	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 10:02	54505	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
2/5/2025 10:03	40101	HUNT_T2	17	30	13	0.71	0.78	0.07	-0.5	-0.37	0	0	0	0	0	0
2/5/2025 10:03	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/5/2025 10:03	54503	ENOL_T2	5	5	0	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
2/5/2025 10:03	54505	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
2/5/2025 10:03	54501	ENOL_T2	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
2/5/2025 10:04	54503	ENOL_T2	5	5	0	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
2/5/2025 10:04	54505	ENOL_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
2/5/2025 10:04	54501	ENOL_T2	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
2/5/2025 10:04	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-1.02	1	1	0	600	600	0
2/5/2025 10:04	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/5/2025 10:05	58202	NEWV_T1	5	7	2	0.26	0.49	0.23	0.05	0.03	0	0	0	0	0	0
2/5/2025 10:05	58201	NEWV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 10:07	58201	NEWV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 10:07	58202	NEWV_T1	5	7	2	0.26	0.49	0.23	0.03	0.01	0	0	0	0	0	0
2/5/2025 10:07	13503	MCMI_T2	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
2/5/2025 10:18	53802	MBRG_T2	0	0	0	0	0	0	0.99	0.99	0	0	0	0	0	0
2/5/2025 10:20	40602	PIGR_T1	2	6	4	0.25	0.27	0.02	0.23	0.25	0	0	0	0	0	0
2/5/2025 10:20	40601	PIGR_T1	67	137	70	0.2	0.32	0.12	0.12	0.11	0	0	0	0	0	0
2/5/2025 10:20	52101	MEIS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/5/2025 10:20	52102	MEIS_T1	1	1	0	0.2	0	-0.2	0	0	1	1	0	450	450	0
2/5/2025 10:21	40602	PIGR_T1	2	6	4	0.25	0.27	0.02	0.25	0.25	0	0	0	0	0	0
2/5/2025 10:21	40601	PIGR_T1	67	137	70	0.2	0.32	0.12	0.22	0.17	0	0	0	0	0	0
2/5/2025 10:22	40602	PIGR_T1	2	6	4	0.25	0.27	0.02	0	0	0	0	0	0	0	0
2/5/2025 10:22	40601	PIGR_T1	67	137	70	0.2	0.32	0.12	0	0	0	0	0	0	0	0
2/5/2025 10:23	40602	PIGR_T1	2	6	4	0.25	0.27	0.02	0	0	0	0	0	0	0	0
2/5/2025 10:23	40601	PIGR_T1	67	137	70	0.2	0.32	0.12	0	0	0	0	0	0	0	0
2/5/2025 10:24	40602	PIGR_T1	2	6	4	0.25	0.27	0.02	0	0	0	0	0	0	0	0
2/5/2025 10:24	40601	PIGR_T1	67	137	70	0.2	0.32	0.12	0	0	0	0	0	0	0	0
2/5/2025 10:26	61305	EARL_T1	0	0	0	0	0	0	0.36	0.37	2	2	0	1500	1500	0
2/5/2025 10:27	26401	INOR_T1	67	65	-2	0.61	0.56	-0.05	0	0	0	0	0	0	0	0
2/5/2025 10:30	20601	GRWO_T2	3	5	2	0.57	0.7	0.13	0.65	0.59	0	0	0	0	0	0
2/5/2025 10:30	46802	HEPB_T1	2	2	0	1.05	1.05	0	-1.25	-1.17	0	0	0	0	0	0
2/5/2025 10:31	52401	GRPA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/5/2025 10:31	52403	GRPA_T2	1	2	1	1	1.2	0.2	0	0	0	0	0	0	0	0
2/5/2025 10:31	52402	GRPA_T2	2	4	2	0.4	0.8	0.4	0	0	0	0	0	0	0	0
2/5/2025 10:37	43304	WATS_T2	0	0	0	0	0	0	-0.41	-0.36	0	0	0	0	0	0
2/5/2025 10:39	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 10:41	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 10:42	62105	ELAN_T1	0	0	0	0	0	0	0.94	0.94	0	0	0	0	0	0
2/5/2025 10:44	52403	GRPA_T2	1	2	1	1	1.2	0.2	0	0	0	0	0	0	0	0
2/5/2025 10:44	52401	GRPA_T2	1	1	0	0.3	0.5	0.2	-0.72	-0.74	0	0	0	0	0	0
2/5/2025 10:44	52402	GRPA_T2	2	4	2	0.4	0.8	0.4	0	0	0	0	0	0	0	0
2/5/2025 10:45	52401	GRPA_T2	1	1	0	0.1	1.1	1	0	0	0	0	0	0	0	0
2/5/2025 10:45	41802	GOCI_T2	17	20	3	0.28	0.39	0.11	0	0	0	0	0	0	0	0
2/5/2025 10:45	52403	GRPA_T2	1	5	4	2.3	0.4	-1.9	-0.56	-0.6	0	0	0	0	0	0
2/5/2025 10:45	41801	GOCI_T2	1	33	32	0.6	0.24	-0.36	0	0	0	0	0	0	0	0
2/5/2025 10:45	52402	GRPA_T2	2	7	5	0.3	0.78	0.48	0	0	0	0	0	0	0	0
2/5/2025 10:45	10801	CHHI_T1	0	7	7	0	0.43	0.43	-2.56	-2.69	4	4	0	3000	3000	0
2/5/2025 10:46	61502	EPET_T1	0	0	0	0	0	0	-1.19	-1.17	0	0	0	0	0	0
2/5/2025 10:47	41802	GOCI_T2	17	20	3	0.28	0.39	0.11	0	0	0	0	0	0	0	0
2/5/2025 10:47	41801	GOCI_T2	1	33	32	0.6	0.24	-0.36	0	0	0	0	0	0	0	0
2/5/2025 10:53	59101	WALK_T2	0	0	0	0	0	0	3.7	3.36	2	2	0	1200	1200	0
2/5/2025 10:54	60701	BREC_T1	0	7	7	0	0.21	0.21	-0.29	-0.3	1	1	0	600	600	0
2/5/2025 10:54	67402	WAKE_T2	0	0	0	0	0	0	0.9	0.9	2	2	0	1200	1200	0
2/5/2025 10:55	60701	BREC_T1	0	7	7	0	0.21	0.21	-0.58	-0.6	2	2	0	1200	1200	0
2/5/2025 10:56	60701	BREC_T1	0	7	7	0	0.21	0.21	-0.86	-0.9	3	3	0	1800	1800	0
2/5/2025 10:57	60701	BREC_T1	0	7	7	0	0.21	0.21	-1.15	-1.2	4	4	0	2400	2400	0
2/5/2025 10:57	59101	WALK_T2	0	0	0	0	0	0	1.85	1.68	1	1	0	600	600	0
2/5/2025 10:58	60701	BREC_T1	0	7	7	0	0.21	0.21	-0.29	-0.3	1	1	0	600	600	0
2/5/2025 10:59	16102	BING_T2	2	7	5	0.6	0.24	-0.36	0	0	0	0	0	0	0	0
2/5/2025 10:59	16103	BING_T2	0	1	1	0	0.1	0.1	-1.57	-1.58	1	1	0	900	900	0
2/5/2025 10:59	60701	BREC_T1	0	7	7	0	0.21	0.21	-0.29	-0.3	1	1	0	600	600	0
2/5/2025 11:00	17805	GILB_T2	2	1	-1	0.35	0	-0.35	0.19	0.24	0	0	0	0	0	0
2/5/2025 11:00	60701	BREC_T1	0	9	9	0	0.43	0.43	-0.29	-0.3	1	1	0	600	600	0
2/5/2025 11:00	17804	GILB_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
2/5/2025 11:01	17804	GILB_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
2/5/2025 11:01	17805	GILB_T2	2	1	-1	0.35	0	-0.35	0.19	0.24	0	0	0	0	0	0
2/5/2025 11:03	65502	MOJO_T2	0	223	223	0	0.15	0.15	-0.7	-0.91	1	1	0	900	900	0
2/5/2025 11:03	65503	MOJO_T2	0	20	20	0	0.1	0.1	-0.75	-0.72	1	1	0	900	900	0
2/5/2025 11:04	65502	MOJO_T2	0	223	223	0	0.15	0.15	0	0	0	0	0	0	0	0
2/5/2025 11:04	65503	MOJO_T2	0	20	20	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 11:04	42903	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 11:05	65502	MOJO_T2	0	223	223	0	0.15	0.15	-0.7	-0.91	1	1	0	900	900	0
2/5/2025 11:05	65503	MOJO_T2	0	20	20	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 11:09	54601	SUMM_T2	3	7	4	0.17	0.4	0.23	0	0	0	0	0	0	0	0
2/5/2025 11:09	54603	SUMM_T2	0	0	0	0	0	0	-0.3	-0.29	1	1	0	900	900	0
2/5/2025 11:10	40201	BEGA_T2	9	18	9	0.52	0.46	-0.06	0	0	0	0	0	0	0	0
2/5/2025 11:11	54603	SUMM_T2	0	0	0	0	0	0	-0.3	-0.29	1	1	0	900	900	0
2/5/2025 11:11	54601	SUMM_T2	3	7	4	0.17	0.4	0.23	0	0	0	0	0	0	0	0
2/5/2025 11:12	24101	EHAZ_T1	36	38	2	1.91	1.31	-0.6	0	0	0	0	0	0	0	0
2/5/2025 11:12	24105	EHAZ_T1	4	4	0	6.5	6.33	-0.17	0	0	0	0	0	0	0	0
2/5/2025 11:12	45501	DERR_T2	0	0	0	0	0	0	0.57	0.54	2	2	0	1800	1800	0
2/5/2025 11:12	24102	EHAZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 11:12	60201	ATGL_T2	0	4	4	0	0.13	0.13	0.09	0.05	0	0	0	0	0	0
2/5/2025 11:12	24104	EHAZ_T1	24	52	28	0.19	0.28	0.09	-2.14	-2.16	1	1	0	1200	1200	0
2/5/2025 11:13	53501	EVIL_T2	2	4	2	0.85	0.68	-0.17	-1.48	-1.5	2	2	0	1500	1500	0
2/5/2025 11:14	52401	GRPA_T2	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
2/5/2025 11:14	52403	GRPA_T2	2	8	6	0.8	0.31	-0.49	-0.62	-0.61	0	0	0	0	0	0
2/5/2025 11:14	52402	GRPA_T2	3	8	5	0.4	1.05	0.65	0	0	0	0	0	0	0	0
2/5/2025 11:14	53501	EVIL_T2	2	4	2	0.85	0.68	-0.17	-1.48	-1.5	2	2	0	1500	1500	0
2/5/2025 11:15	52403	GRPA_T2	4	17	13	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
2/5/2025 11:15	52402	GRPA_T2	7	4	-3	0.67	1.05	0.38	0	0	0	0	0	0	0	0
2/5/2025 11:15	52401	GRPA_T2	1	2	1	1.1	0.6	-0.5	-0.77	-0.82	0	0	0	0	0	0
2/5/2025 11:15	47901	HRDG_T1	0	0	0	0	0	0	0.83	2.03	1	0	-1	1200	0	-1200
2/5/2025 11:15	53501	EVIL_T2	4	4	0	0.6	0.65	0.05	-2.97	-3	4	4	0	3000	3000	0
2/5/2025 11:16	52402	GRPA_T2	7	4	-3	0.67	1.05	0.38	0	0	0	0	0	0	0	0
2/5/2025 11:16	52401	GRPA_T2	1	2	1	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
2/5/2025 11:16	53501	EVIL_T2	4	4	0	0.6	0.65	0.05	-1.48	-1.5	2	2	0	1500	1500	0
2/5/2025 11:16	20601	GRWO_T2	1	1	0	3.5	0	-3.5	0	0	0	0	0	0	0	0
2/5/2025 11:16	52403	GRPA_T2	4	17	13	0.55	0.4	-0.15	-0.62	-0.61	0	0	0	0	0	0
2/5/2025 11:16	20603	GRWO_T2	0	3	3	0	0.3	0.3	0.46	0.47	0	0	0	0	0	0
2/5/2025 11:17	54503	ENOL_T2	5	0	-5	0.12	0	-0.12	0	0	0	0	0	0	0	0
2/5/2025 11:17	53501	EVIL_T2	4	4	0	0.6	0.65	0.05	-1.48	-1.5	2	2	0	1500	1500	0
2/5/2025 11:17	54502	ENOL_T2	1	1	0	0.7	0.6	-0.1	-2	-1.99	1	1	0	600	600	0
2/5/2025 11:17	54505	ENOL_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
2/5/2025 11:18	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-0.97	1	1	0	600	600	0
2/5/2025 11:18	54505	ENOL_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
2/5/2025 11:18	54502	ENOL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
2/5/2025 11:18	54503	ENOL_T2	5	0	-5	0.12	0	-0.12	0	0	0	0	0	0	0	0
2/5/2025 11:19	54505	ENOL_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
2/5/2025 11:19	54503	ENOL_T2	5	0	-5	0.12	0	-0.12	0	0	0	0	0	0	0	0
2/5/2025 11:19	54502	ENOL_T2	1	1	0	0.7	0.6	-0.1	-2	-1.99	1	1	0	600	600	0
2/5/2025 11:23	13105	NHAM_T2	0	16	16	0	0.34	0.34	0	0	0	0	0	0	0	0
2/5/2025 11:23	67702	WERN_T2	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
2/5/2025 11:23	48301	ORWI_T1	2	3	1	5.8	3.97	-1.83	-0.58	-0.57	1	1	0	900	900	0
2/5/2025 11:23	14802	TREI_T2	0	3	3	0	0.27	0.27	0.5	0.49	0	0	0	0	0	0
2/5/2025 11:23	13102	NHAM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 11:23	13103	NHAM_T2	3	3	0	2.37	0.77	-1.6	-1.63	-1.65	1	1	0	600	600	0
2/5/2025 11:23	14801	TREI_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
2/5/2025 11:24	67702	WERN_T2	0	0	0	0	0	0	-0.67	-0.69	0	0	0	0	0	0
2/5/2025 11:25	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 11:26	22601	KIMB_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/5/2025 11:26	22602	KIMB_T1	0	1	1	0	0.1	0.1	0.14	0.13	0	0	0	0	0	0
2/5/2025 11:27	61304	EARL_T1	0	3	3	0	0.13	0.13	-0.73	-0.69	1	1	0	600	600	0
2/5/2025 11:27	44301	BEAV_T2	0	1	1	0	0	0	0.56	0.57	1	1	0	600	600	0
2/5/2025 11:28	61304	EARL_T1	0	3	3	0	0.13	0.13	-0.73	-0.69	1	1	0	600	600	0
2/5/2025 11:28	45802	HEGI_T2	47	39	-8	1.85	0.56	-1.29	1.18	1.37	0	0	0	0	0	0
2/5/2025 11:29	61304	EARL_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
2/5/2025 11:29	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 11:29	10805	CHHI_T2	2	7	5	3.85	1.36	-2.49	-0.97	-0.94	1	1	0	600	600	0
2/5/2025 11:29	45802	HEGI_T2	47	39	-8	1.85	0.56	-1.29	1.18	1.37	0	0	0	0	0	0
2/5/2025 11:29	61304	EARL_T1	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
2/5/2025 11:30	22601	KIMB_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/5/2025 11:30	22602	KIMB_T1	1	1	0	0.1	0.1	0	0.14	0.13	0	0	0	0	0	0
2/5/2025 11:30	61304	EARL_T1	0	3	3	0	0.13	0.13	-0.73	-0.69	1	1	0	600	600	0
2/5/2025 11:30	63501	HEID_TBK1-2	5	6	1	0.32	0.37	0.05	0.16	0.26	1	1	0	900	900	0
2/5/2025 11:31	63501	HEID_TBK1-2	5	6	1	0.32	0.37	0.05	0.16	0.26	1	1	0	900	900	0
2/5/2025 11:31	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 11:31	20601	GRWO_T2	1	0	-1	0.8	0	-0.8	0.57	0.5	0	0	0	0	0	0
2/5/2025 11:31	20603	GRWO_T2	2	5	3	0.25	0.32	0.07	0	0	0	0	0	0	0	0
2/5/2025 11:31	10805	CHHI_T2	7	6	-1	1.36	1.55	0.19	-0.97	-0.94	1	1	0	600	600	0
2/5/2025 11:31	63804	HEMP_T1	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
2/5/2025 11:31	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 11:31	63802	HEMP_T1	0	0	0	0	0	0	0.16	0.21	0	0	0	0	0	0
2/5/2025 11:32	63501	HEID_TBK1-2	5	6	1	0.32	0.37	0.05	0.16	0.26	1	1	0	900	900	0
2/5/2025 11:33	63501	HEID_TBK1-2	5	6	1	0.32	0.37	0.05	0.16	0.26	1	1	0	900	900	0
2/5/2025 11:38	44201	POIN_T1	73	48	-25	0.24	0.2	-0.04	-2.32	-2.1	2	2	0	2100	2100	0
2/5/2025 11:38	43304	WATS_T2	1	1	0	0.1	0.8	0.7	-0.41	-0.78	0	0	0	0	0	0
2/5/2025 11:39	43304	WATS_T2	1	1	0	0.1	0.8	0.7	-0.41	-0.78	0	0	0	0	0	0
2/5/2025 11:39	44201	POIN_T1	73	48	-25	0.24	0.2	-0.04	-4.64	-4.19	4	4	0	4200	4200	0
2/5/2025 11:40	43304	WATS_T2	1	1	0	0.1	0.8	0.7	-1.23	-2.34	0	0	0	0	0	0
2/5/2025 11:41	41602	CLEV_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
2/5/2025 11:41	41601	CLEV_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
2/5/2025 11:42	43304	WATS_T2	1	1	0	0.1	0.8	0.7	-0.41	-0.78	0	0	0	0	0	0
2/5/2025 11:42	61304	EARL_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
2/5/2025 11:43	41602	CLEV_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
2/5/2025 11:43	52401	GRPA_T2	1	2	1	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
2/5/2025 11:43	52402	GRPA_T2	4	4	0	1.05	1.27	0.22	0	0	0	0	0	0	0	0
2/5/2025 11:43	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/5/2025 11:43	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 11:43	61801	EELI_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/5/2025 11:43	41601	CLEV_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
2/5/2025 11:43	61304	EARL_T1	0	3	3	0	0.13	0.13	-0.69	-0.78	1	1	0	600	600	0
2/5/2025 11:43	42501	ALTA_T2	0	0	0	0	0	0	0.04	0.04	1	1	0	600	600	0
2/5/2025 11:43	52403	GRPA_T2	8	17	9	0.31	0.39	0.08	-0.66	-0.67	0	0	0	0	0	0
2/5/2025 11:43	61802	EELI_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
2/5/2025 11:44	41601	CLEV_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
2/5/2025 11:44	41602	CLEV_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
2/5/2025 11:44	62105	ELAN_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
2/5/2025 11:47	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
2/5/2025 11:48	64902	MILL_T2	0	0	0	0	0	0	-0.7	-0.7	1	1	0	900	900	0
2/5/2025 11:49	13502	MCMI_T1	1	1	0	1	1	0	-0.67	-0.68	0	0	0	0	0	0
2/5/2025 11:53	13704	SCHN_T2	1	7	6	0.2	0.13	-0.07	-1.79	-1.79	0	0	0	0	0	0
2/5/2025 11:53	13902	SEID_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/5/2025 11:53	13904	SEID_T1	10	18	8	0.19	0.41	0.22	0	0	0	0	0	0	0	0
2/5/2025 11:53	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 11:53	13901	SEID_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/5/2025 11:53	13701	SCHN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 11:54	54601	SUMM_T2	8	10	2	0.38	0.51	0.13	-1.75	-1.76	2	2	0	2100	2100	0
2/5/2025 11:59	52402	GRPA_T2	3	4	1	1.17	1	-0.17	0	0	0	0	0	0	0	0
2/5/2025 11:59	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/5/2025 11:59	52403	GRPA_T2	17	4	-13	0.42	0.4	-0.02	0	0	0	0	0	0	0	0
2/5/2025 11:59	52401	GRPA_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
2/5/2025 12:01	21403	EXET_T2	0	0	0	0	0	0	-1.95	-2.01	1	1	0	600	600	0
2/5/2025 12:01	28403	HART_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/5/2025 12:06	58401	MORO_T1	0	0	0	0	0	0	-0.93	-0.98	1	1	0	600	600	0
2/5/2025 12:07	58401	MORO_T1	0	0	0	0	0	0	-0.98	-0.97	1	1	0	600	600	0
2/5/2025 12:10	40201	BEGA_T2	22	16	-6	0.49	0.57	0.08	0	0	0	0	0	0	0	0
2/5/2025 12:11	67702	WERN_T2	0	0	0	0	0	0	-0.7	-0.69	0	0	0	0	0	0
2/5/2025 12:11	43402	BENT_T1	1	1	0	1	0.8	-0.2	-0.9	-0.91	1	1	0	900	900	0
2/5/2025 12:11	40201	BEGA_T2	22	16	-6	0.49	0.57	0.08	0	0	0	0	0	0	0	0
2/5/2025 12:12	43402	BENT_T1	1	1	0	1	0.8	-0.2	-0.9	-0.91	1	1	0	900	900	0
2/5/2025 12:14	46002	BERW_T2	0	0	0	0	0	0	-0.81	-0.77	1	1	0	900	900	0
2/5/2025 12:14	61801	EELI_T2	1	2	1	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
2/5/2025 12:14	61803	EELI_T2	0	0	0	0	0	0	0.98	0.94	0	0	0	0	0	0
2/5/2025 12:14	46004	BERW_T2	0	1	1	0	0	0	-0.25	-0.23	0	0	0	0	0	0
2/5/2025 12:15	18001	ZION_T1	2	3	1	9.3	6.43	-2.87	0	0	0	0	0	0	0	0
2/5/2025 12:19	63803	HEMP_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/5/2025 12:19	63804	HEMP_T1	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
2/5/2025 12:19	64903	MILL_T2	0	0	0	0	0	0	0.31	0.25	0	0	0	0	0	0
2/5/2025 12:19	63801	HEMP_T1	1	1	0	0.2	0.1	-0.1	-0.85	-0.56	1	1	0	900	900	0
2/5/2025 12:20	64802	MONE_T2	11	18	7	0.25	0.2	-0.05	-0.08	-0.07	0	0	0	0	0	0
2/5/2025 12:20	64801	MONE_T2	3	5	2	0.1	0.12	0.02	0	0	0	0	0	0	0	0
2/5/2025 12:20	65702	RVIL_T2	5	1	-4	0.14	0.1	-0.04	-1.37	-1.29	1	1	0	600	600	0
2/5/2025 12:21	65303	NBRI_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
2/5/2025 12:22	40303	TAMA_T3	14	17	3	0.47	0.49	0.02	2.72	2.86	0	0	0	0	0	0
2/5/2025 12:22	65702	RVIL_T2	5	1	-4	0.14	0.1	-0.04	-1.29	-1.51	1	1	0	600	600	0
2/5/2025 12:22	64802	MONE_T2	11	18	7	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
2/5/2025 12:22	40302	TAMA_T3	51	58	7	0.67	0.74	0.07	0	0	0	0	0	0	0	0
2/5/2025 12:22	64801	MONE_T2	3	5	2	0.1	0.12	0.02	0	0	0	0	0	0	0	0
2/5/2025 12:22	40301	TAMA_T3	30	55	25	0.44	0.34	-0.1	0	0	0	0	0	0	0	0
2/5/2025 12:23	13704	SCHN_T2	7	6	-1	0.13	0.2	0.07	-0.34	-0.33	0	0	0	0	0	0
2/5/2025 12:23	13701	SCHN_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
2/5/2025 12:24	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 12:25	14802	TREI_T2	2	7	5	0.1	0.29	0.19	0	0	0	0	0	0	0	0
2/5/2025 12:25	53101	WTWN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 12:25	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 12:25	13701	SCHN_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
2/5/2025 12:25	13704	SCHN_T2	7	6	-1	0.13	0.2	0.07	-0.34	-0.33	0	0	0	0	0	0
2/5/2025 12:25	14801	TREI_T2	3	5	2	0.37	0.24	-0.13	0.59	0.51	0	0	0	0	0	0
2/5/2025 12:27	61001	DONV_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
2/5/2025 12:28	48901	FOSP_T2	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
2/5/2025 12:28	48902	FOSP_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/5/2025 12:29	20601	GRWO_T2	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
2/5/2025 12:29	20603	GRWO_T2	6	10	4	0.33	0.39	0.06	0	0	0	0	0	0	0	0
2/5/2025 12:30	48901	FOSP_T2	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
2/5/2025 12:30	60904	DONG_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
2/5/2025 12:30	61701	ELIZ_T1	1	1	0	5.7	5.2	-0.5	0.14	0.02	0	0	0	0	0	0
2/5/2025 12:30	60902	DONG_T2	2	0	-2	0.2	0	-0.2	0.57	0.59	0	0	0	0	0	0
2/5/2025 12:30	60901	DONG_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
2/5/2025 12:30	48902	FOSP_T2	0	0	0	0	0	0	0.33	0.57	0	0	0	0	0	0
2/5/2025 12:31	17802	GILB_T1	2	3	1	1.2	0.8	-0.4	0.26	0.25	0	0	0	0	0	0
2/5/2025 12:31	41802	GOCI_T2	17	17	0	0.25	0.19	-0.06	0	0	0	0	0	0	0	0
2/5/2025 12:31	48901	FOSP_T2	0	0	0	0	0	0	0.77	0.71	0	0	0	0	0	0
2/5/2025 12:31	41801	GOCI_T2	264	120	-144	0.58	0.28	-0.3	0	0	0	0	0	0	0	0
2/5/2025 12:33	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1.01	0	0	0	0	0	0
2/5/2025 12:36	41802	GOCI_T2	17	17	0	0.25	0.19	-0.06	0	0	0	0	0	0	0	0
2/5/2025 12:36	41801	GOCI_T2	264	120	-144	0.58	0.28	-0.3	0	0	0	0	0	0	0	0
2/5/2025 12:41	13901	SEID_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/5/2025 12:41	13904	SEID_T1	19	16	-3	0.52	0.23	-0.29	0	0	0	0	0	0	0	0
2/5/2025 12:41	13905	SEID_T1	1	0	-1	0.1	0	-0.1	0.33	0.34	0	0	0	0	0	0
2/5/2025 12:50	43201	MVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/5/2025 12:50	43202	MVIL_T2	54	46	-8	0.41	0.24	-0.17	-0.58	-0.56	0	0	0	0	0	0
2/5/2025 12:51	43202	MVIL_T2	54	46	-8	0.41	0.24	-0.17	-0.56	-0.57	0	0	0	0	0	0
2/5/2025 12:51	43201	MVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/5/2025 12:52	43301	WATS_T2	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
2/5/2025 12:53	57205	ROSS_T1	1	2	1	0.6	1	0.4	0.19	0.2	0	0	0	0	0	0
2/5/2025 12:53	57201	ROSS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/5/2025 12:56	61001	DONV_T1	0	0	0	0	0	0	-0.23	-0.16	0	0	0	0	0	0
2/5/2025 12:57	10702	CATA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/5/2025 12:57	10705	CATA_T2	2	2	0	0.55	1.1	0.55	-1.72	-1.66	2	2	0	1800	1800	0
2/5/2025 12:57	10703	CATA_T2	1	2	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
2/5/2025 12:59	10702	CATA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/5/2025 12:59	10703	CATA_T2	1	2	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
2/5/2025 12:59	10705	CATA_T2	2	2	0	0.55	1.1	0.55	-0.86	-0.83	1	1	0	900	900	0
2/5/2025 13:01	40101	HUNT_T2	25	10	-15	0.35	0	-0.35	-0.15	0.04	0	0	0	0	0	0
2/5/2025 13:01	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 13:01	52403	GRPA_T2	15	17	2	0.49	0.54	0.05	-0.68	-0.72	0	0	0	0	0	0
2/5/2025 13:01	52402	GRPA_T2	10	10	0	0.59	0.92	0.33	0	0	0	0	0	0	0	0
2/5/2025 13:03	40101	HUNT_T2	25	10	-15	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/5/2025 13:04	40101	HUNT_T2	25	10	-15	0.35	0	-0.35	-0.15	0.04	0	0	0	0	0	0
2/5/2025 13:06	42802	SELI_T1	0	1	1	0	0.2	0.2	-1.7	-1.69	0	0	0	0	0	0
2/5/2025 13:06	50502	MECH_T1	1	1	0	1.6	2	0.4	0	0	0	0	0	0	0	0
2/5/2025 13:06	50506	MECH_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
2/5/2025 13:06	50501	MECH_T1	4	4	0	0.83	1.33	0.5	0	0	0	0	0	0	0	0
2/5/2025 13:07	66504	SMAN_T2	1	1	0	0.4	0.3	-0.1	-0.37	-0.42	0	0	0	0	0	0
2/5/2025 13:07	66503	SMAN_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
2/5/2025 13:07	42802	SELI_T1	0	1	1	0	0.2	0.2	-1.7	-1.69	0	0	0	0	0	0
2/5/2025 13:07	66502	SMAN_T2	11	15	4	0.21	0.2	-0.01	0.29	0.22	0	0	0	0	0	0
2/5/2025 13:07	66505	SMAN_T2	3	3	0	0.77	1.13	0.36	-0.31	-0.52	2	2	0	1800	1800	0
2/5/2025 13:08	66505	SMAN_T2	3	3	0	0.77	1.13	0.36	0	0	0	0	0	0	0	0
2/5/2025 13:08	66504	SMAN_T2	1	1	0	0.4	0.3	-0.1	-0.37	-0.42	0	0	0	0	0	0
2/5/2025 13:08	66502	SMAN_T2	11	15	4	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
2/5/2025 13:09	66502	SMAN_T2	11	15	4	0.21	0.2	-0.01	0.57	0.45	0	0	0	0	0	0
2/5/2025 13:09	66504	SMAN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/5/2025 13:09	66505	SMAN_T2	3	3	0	0.77	1.13	0.36	0	0	0	0	0	0	0	0
2/5/2025 13:10	42802	SELI_T1	0	1	1	0	0.2	0.2	-1.7	-1.69	0	0	0	0	0	0
2/5/2025 13:10	66502	SMAN_T2	11	15	4	0.21	0.2	-0.01	0.29	0.22	0	0	0	0	0	0
2/5/2025 13:10	66504	SMAN_T2	1	1	0	0.4	0.3	-0.1	-1.49	-1.66	0	0	0	0	0	0
2/5/2025 13:10	66505	SMAN_T2	3	3	0	0.77	1.13	0.36	0	0	0	0	0	0	0	0
2/5/2025 13:11	66502	SMAN_T2	11	15	4	0.21	0.2	-0.01	0.57	0.45	0	0	0	0	0	0
2/5/2025 13:11	66505	SMAN_T2	3	3	0	0.77	1.13	0.36	0	0	0	0	0	0	0	0
2/5/2025 13:11	66504	SMAN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/5/2025 13:11	10602	BLGL_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
2/5/2025 13:13	66504	SMAN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/5/2025 13:13	66505	SMAN_T2	3	3	0	0.77	1.13	0.36	0	0	0	0	0	0	0	0
2/5/2025 13:13	61801	EELI_T2	0	1	1	0	0.6	0.6	-0.34	-0.31	0	0	0	0	0	0
2/5/2025 13:13	66502	SMAN_T2	11	15	4	0.21	0.2	-0.01	0.29	0.22	0	0	0	0	0	0
2/5/2025 13:14	48901	FOSP_T2	0	0	0	0	0	0	0.52	0.42	0	0	0	0	0	0
2/5/2025 13:15	41601	CLEV_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/5/2025 13:15	66505	SMAN_T2	3	3	0	0.87	1.13	0.26	0	0	0	0	0	0	0	0
2/5/2025 13:15	66504	SMAN_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/5/2025 13:15	66502	SMAN_T2	4	15	11	0.13	0.2	0.07	0.29	0.22	0	0	0	0	0	0
2/5/2025 13:15	41602	CLEV_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/5/2025 13:18	64802	MONE_T2	15	23	8	0.21	0.24	0.03	-0.07	-0.09	0	0	0	0	0	0
2/5/2025 13:18	64801	MONE_T2	7	12	5	0.1	0.14	0.04	0	0	0	0	0	0	0	0
2/5/2025 13:22	58101	NEKI_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/5/2025 13:22	57205	ROSS_T1	2	4	2	1	0.65	-0.35	0	0	0	0	0	0	0	0
2/5/2025 13:22	58102	NEKI_T1	1	1	0	0.6	0.9	0.3	0.31	0.35	0	0	0	0	0	0
2/5/2025 13:22	57201	ROSS_T1	1	9	8	0.4	0.16	-0.24	0	0	0	0	0	0	0	0
2/5/2025 13:25	13701	SCHN_T2	2	2	0	0.1	0.1	0	-0.03	-0.03	1	1	0	600	600	0
2/5/2025 13:25	13704	SCHN_T2	3	1	-2	0.17	0.2	0.03	0	0	0	0	0	0	0	0
2/5/2025 13:35	57205	ROSS_T1	4	2	-2	0.65	0.7	0.05	0	0	0	0	0	0	0	0
2/5/2025 13:35	57201	ROSS_T1	9	1	-8	0.16	0.1	-0.06	-0.39	-0.39	0	0	0	0	0	0
2/5/2025 13:38	57205	ROSS_T1	4	2	-2	0.65	0.7	0.05	0	0	0	0	0	0	0	0
2/5/2025 13:38	57201	ROSS_T1	9	1	-8	0.16	0.1	-0.06	-0.39	-0.44	0	0	0	0	0	0
2/5/2025 13:40	58202	NEWV_T1	0	0	0	0	0	0	-0.06	-0.01	0	0	0	0	0	0
2/5/2025 13:42	60201	ATGL_T2	4	12	8	0.2	0.22	0.02	0	0	0	0	0	0	0	0
2/5/2025 13:43	60201	ATGL_T2	4	12	8	0.2	0.22	0.02	0.02	-0.02	0	0	0	0	0	0
2/5/2025 13:43	10703	CATA_T2	2	1	-1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
2/5/2025 13:43	10705	CATA_T2	0	1	1	0	1.9	1.9	-0.85	-0.87	1	1	0	900	900	0
2/5/2025 13:43	10702	CATA_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
2/5/2025 13:44	51604	DUKE_T2	9	20	11	0.33	0.26	-0.07	0	0	0	0	0	0	0	0
2/5/2025 13:45	10701	CATA_T2	0	0	0	0	0	0	-0.42	-0.44	0	0	0	0	0	0
2/5/2025 13:45	10703	CATA_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
2/5/2025 13:45	51604	DUKE_T2	14	29	15	0.29	0.28	-0.01	0	0	1	1	0	900	900	0
2/5/2025 13:45	10702	CATA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/5/2025 13:45	10705	CATA_T2	1	1	0	1.9	1.8	-0.1	-0.85	-0.87	1	1	0	900	900	0
2/5/2025 13:46	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 13:46	17805	GILB_T2	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
2/5/2025 13:46	17804	GILB_T2	1	1	0	1.2	1.6	0.4	0	0	0	0	0	0	0	0
2/5/2025 13:48	42902	MIDD_T2	0	0	0	0	0	0	-0.89	-0.93	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/5/2025 13:49	42902	MIDD_T2	0	0	0	0	0	0	-1.79	-1.87	2	2	0	1200	1200	0
2/5/2025 13:54	61001	DONV_T1	1	1	0	0.7	0.2	-0.5	-0.27	0.01	0	0	0	0	0	0
2/5/2025 13:56	41601	CLEV_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
2/5/2025 13:56	41204	KENM_T2	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
2/5/2025 13:57	54601	SUMM_T2	10	10	0	0.4	0.48	0.08	-1.8	-1.77	2	2	0	2100	2100	0
2/5/2025 14:00	51604	DUKE_T2	19	29	10	0.25	0.26	0.01	0	0	1	1	0	900	900	0
2/5/2025 14:00	41601	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/5/2025 14:05	55002	NEWP_T1	5	5	0	0.76	0.8	0.04	-0.23	-0.24	0	0	0	0	0	0
2/5/2025 14:06	64901	MILL_T1	28	0	-28	0.26	0	-0.26	0	0	0	0	0	0	0	0
2/5/2025 14:06	64904	MILL_T1	5	0	-5	0.3	0	-0.3	0.57	0.57	0	0	0	0	0	0
2/5/2025 14:07	41902	REED_T1	0	10	10	0	0	0	1.19	1.1	0	0	0	0	0	0
2/5/2025 14:12	55508	HERS_T2	2	2	0	1.5	1.7	0.2	0	0	1	1	0	1200	1200	0
2/5/2025 14:13	55508	HERS_T2	2	2	0	1.5	1.7	0.2	0	0	1	1	0	1200	1200	0
2/5/2025 14:15	55507	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 14:17	61703	ELIZ_T1	0	0	0	0	0	0	-0.86	-0.92	1	1	0	900	900	0
2/5/2025 14:17	61701	ELIZ_T1	1	1	0	5.7	6	0.3	0	0	0	0	0	0	0	0
2/5/2025 14:23	14603	SWHI_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	600	600	0
2/5/2025 14:25	14603	SWHI_T1	0	0	0	0	0	0	-1.94	-1.94	2	2	0	1200	1200	0
2/5/2025 14:27	14603	SWHI_T1	0	0	0	0	0	0	-1.94	-1.94	2	2	0	1200	1200	0
2/5/2025 14:31	16102	BING_T2	4	8	4	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
2/5/2025 14:31	16103	BING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/5/2025 14:37	44902	SCOT_T2	634	561	-73	0.49	0.46	-0.03	-0.96	-0.98	0	0	0	0	0	0
2/5/2025 14:37	44901	SCOT_T2	78	36	-42	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
2/5/2025 14:38	44902	SCOT_T2	634	561	-73	0.49	0.46	-0.03	0	0	0	0	0	0	0	0
2/5/2025 14:38	44901	SCOT_T2	78	36	-42	0.2	0.16	-0.04	0.02	0.17	0	0	0	0	0	0
2/5/2025 14:49	53902	HALI_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
2/5/2025 14:49	53903	HALI_T2	2	2	0	0.85	1.05	0.2	0	0	0	0	0	0	0	0
2/5/2025 14:49	53901	HALI_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
2/5/2025 15:01	63801	HEMP_T1	0	0	0	0	0	0	0	0	0	0	-1	0	0	0
2/5/2025 15:01	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
2/5/2025 15:04	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
2/5/2025 15:04	63803	HEMP_T1	0	0	0	0	0	0	0.12	0.18	0	0	0	0	0	0
2/5/2025 15:05	57203	ROSS_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
2/5/2025 15:05	57201	ROSS_T1	2	4	2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/5/2025 15:05	64802	MONE_T2	18	15	-3	0.18	0.22	0.04	0	0	0	0	0	0	0	0
2/5/2025 15:05	64801	MONE_T2	12	14	2	0.11	0.15	0.04	0.04	0.01	0	0	0	0	0	0
2/5/2025 15:05	57205	ROSS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/5/2025 15:07	64802	MONE_T2	18	15	-3	0.18	0.22	0.04	0	0	0	0	0	0	0	0
2/5/2025 15:07	64801	MONE_T2	12	14	2	0.11	0.15	0.04	0	0	0	0	0	0	0	0
2/5/2025 15:07	25402	LAHA_T2	3	5	2	0.33	0.4	0.07	0.32	0.28	0	0	0	0	0	0
2/5/2025 15:08	57201	ROSS_T1	2	4	2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/5/2025 15:08	57205	ROSS_T1	1	0	-1	0.2	0	-0.2	0.21	0.2	0	0	0	0	0	0
2/5/2025 15:09	57201	ROSS_T1	2	4	2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/5/2025 15:09	57203	ROSS_T1	0	0	0	0	0	0	1.26	1.4	0	0	0	0	0	0
2/5/2025 15:09	57205	ROSS_T1	1	0	-1	0.2	0	-0.2	0.21	0.2	0	0	0	0	0	0
2/5/2025 15:10	57201	ROSS_T1	2	4	2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/5/2025 15:10	57205	ROSS_T1	1	0	-1	0.2	0	-0.2	0.21	0.2	0	0	0	0	0	0
2/5/2025 15:10	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 15:10	42501	ALTA_T2	0	13	13	0	0.12	0.12	0	0	0	0	0	0	0	0
2/5/2025 15:10	42503	ALTA_T2	0	3	3	0	0.17	0.17	-0.59	-0.58	0	0	0	0	0	0
2/5/2025 15:10	42504	ALTA_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
2/5/2025 15:13	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 15:24	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 15:31	52001	LING_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
2/5/2025 15:41	42701	AUGU_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/5/2025 15:43	42701	AUGU_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/5/2025 15:43	60201	ATGL_T2	39	7	-32	0.24	0.2	-0.04	-0.19	-0.09	0	0	0	0	0	0
2/5/2025 15:47	53902	HALI_T2	1	1	0	5	4.6	-0.4	0	0	0	0	0	0	0	0
2/5/2025 15:47	46101	MACI_T2	0	0	0	0	0	0	-0.11	-0.09	1	1	0	1200	1200	0
2/5/2025 15:47	53901	HALI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/5/2025 15:47	53903	HALI_T2	2	2	0	1.3	0.95	-0.35	-0.07	-0.12	0	0	0	0	0	0
2/5/2025 15:51	64904	MILL_T1	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
2/5/2025 16:25	22601	KIMB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 16:26	55105	WERT_T1	0	0	0	0	0	0	-0.52	-0.5	1	1	0	900	900	0
2/5/2025 16:32	65902	SAKR_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
2/5/2025 16:32	65901	SAKR_T2	0	0	0	0	0	0	-1.83	-1.26	2	1	-1	1500	900	-600
2/5/2025 16:35	65902	SAKR_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
2/5/2025 16:35	65901	SAKR_T2	0	0	0	0	0	0	-1.83	-1.26	2	1	-1	1500	900	-600
2/5/2025 16:37	65901	SAKR_T2	0	0	0	0	0	0	-1.26	-1.16	1	1	0	900	900	0
2/5/2025 16:37	41902	REED_T1	37	8	-29	0.52	0.37	-0.15	1.15	1.13	0	0	0	0	0	0
2/5/2025 16:37	65902	SAKR_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
2/5/2025 16:38	41902	REED_T1	37	8	-29	0.52	0.37	-0.15	1.15	1.13	0	0	0	0	0	0
2/5/2025 16:40	66505	SMAN_T2	3	3	0	0.43	0.9	0.47	0	0	0	0	0	0	0	0
2/5/2025 16:40	66502	SMAN_T2	0	0	0	0	0	0	-0.01	-0.09	0	0	0	0	0	0
2/5/2025 16:43	24902	WHHA_T1	19	46	27	0.88	0.88	0	0.83	0.83	0	0	0	0	0	0
2/5/2025 16:43	24901	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 18:33	65503	MOJO_T2	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
2/5/2025 18:40	42802	SELI_T1	0	0	0	0	0	0	-1.71	-1.74	0	0	0	0	0	0
2/5/2025 19:06	11003	EGRE_T2	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
2/5/2025 19:10	16902	MECK_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
2/5/2025 19:11	57201	ROSS_T1	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
2/5/2025 19:19	10602	BLGL_T2	1	1	0	7.7	8.5	0.8	0.41	0.37	0	0	0	0	0	0
2/5/2025 19:19	46002	BERW_T2	0	0	0	0	0	0	-1.07	-1	1	1	0	900	900	0
2/5/2025 19:19	13904	SEID_T1	63	69	6	1.2	1.22	0.02	0	0	0	0	0	0	0	0
2/5/2025 19:19	13905	SEID_T1	0	0	0	0	0	0	0.39	0.44	0	0	0	0	0	0
2/5/2025 19:19	61304	EARL_T1	1	7	6	0.1	0.1	0	-0.89	-0.9	1	1	0	600	600	0
2/5/2025 19:19	46004	BERW_T2	2	1	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
2/5/2025 19:20	66505	SMAN_T2	3	3	0	0.9	0.73	-0.17	0	0	0	0	0	0	0	0
2/5/2025 19:20	66502	SMAN_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
2/5/2025 19:20	67703	WERN_T2	0	0	0	0	0	0	-0.22	-0.23	1	1	0	900	900	0
2/5/2025 19:20	24902	WHHA_T1	15	18	3	0.83	0.64	-0.19	0.86	0.86	0	0	0	0	0	0
2/5/2025 19:20	40301	TAMA_T3	5	6	1	0.43	0.34	-0.09	0	0	0	0	0	0	0	0
2/5/2025 19:20	40302	TAMA_T3	25	26	1	0.71	0.68	-0.03	0	0	0	0	0	0	0	0
2/5/2025 19:20	26401	INOR_T1	12	34	22	1.38	0.99	-0.39	0	0	0	0	0	0	0	0
2/5/2025 19:20	17805	GILB_T2	3	0	-3	1.27	0	-1.27	0.17	0.18	0	0	0	0	0	0
2/5/2025 19:20	24901	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:20	40303	TAMA_T3	6	8	2	0.42	0.45	0.03	2.93	2.82	0	0	0	0	0	0
2/5/2025 19:20	17802	GILB_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
2/5/2025 19:20	26402	INOR_T1	0	1	1	0	0	0	-1.94	-1.93	1	1	0	600	600	0
2/5/2025 19:21	10805	CHHI_T2	8	1	-7	1.34	8.2	6.86	-0.91	-1	1	1	0	600	600	0
2/5/2025 19:21	29402	BELT_T1	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0	0
2/5/2025 19:21	13502	MCMI_T1	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
2/5/2025 19:21	14802	TREI_T2	0	0	0	0	0	0	0.6	0.63	0	0	0	0	0	0
2/5/2025 19:21	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:21	66505	SMAN_T2	3	3	0	0.9	0.73	-0.17	0	0	0	0	0	0	0	0
2/5/2025 19:21	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/5/2025 19:21	13501	MCMI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 19:21	44902	SCOT_T2	12	0	-12	0.13	0	-0.13	0	0	0	0	0	0	0	0
2/5/2025 19:21	44901	SCOT_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
2/5/2025 19:22	43402	BENT_T1	0	2	2	0	0	0	-0.89	-0.91	1	1	0	900	900	0
2/5/2025 19:22	66504	SMAN_T2	0	0	0	0	0	0	-0.72	-0.82	0	0	0	0	0	0
2/5/2025 19:22	66505	SMAN_T2	3	3	0	0.9	0.73	-0.17	0	0	0	0	0	0	0	0
2/5/2025 19:22	65702	RVIL_T2	0	0	0	0	0	0	-1.56	-1.54	1	1	0	600	600	0
2/5/2025 19:22	46101	MACI_T2	0	0	0	0	0	0	-0.54	-0.56	1	1	0	1200	1200	0
2/5/2025 19:22	61301	EARL_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
2/5/2025 19:22	61304	EARL_T1	1	7	6	0.1	0.1	0	0	0	0	0	0	0	0	0
2/5/2025 19:22	60701	BREC_T1	0	0	0	0	0	0	-0.35	-0.33	1	1	0	600	600	0
2/5/2025 19:23	16102	BING_T2	0	1	1	0	5	5	0	0	0	0	0	0	0	0
2/5/2025 19:23	60701	BREC_T1	0	0	0	0	0	0	-0.35	-0.33	1	1	0	600	600	0
2/5/2025 19:23	66502	SMAN_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
2/5/2025 19:23	14602	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/5/2025 19:23	66901	SHIL_T2	0	0	0	0	0	0	-3.26	-3.17	2	2	0	2400	2400	0
2/5/2025 19:23	14801	TREI_T2	0	0	0	0	0	0	0.71	0.73	0	0	0	0	0	0
2/5/2025 19:23	66505	SMAN_T2	3	3	0	0.9	0.73	-0.17	0	0	0	0	0	0	0	0
2/5/2025 19:23	14603	SWHI_T1	0	0	0	0	0	0	-1.58	-1.57	2	2	0	1200	1200	0
2/5/2025 19:23	40201	BEGA_T2	8	11	3	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
2/5/2025 19:23	65502	MOJO_T2	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
2/5/2025 19:23	40101	HUNT_T2	0	1	1	0	0	0	-1.44	-1.43	0	0	0	0	0	0
2/5/2025 19:23	65702	RVIL_T2	0	0	0	0	0	0	-1.56	-1.54	1	1	0	600	600	0
2/5/2025 19:23	65901	SAKR_T2	1	1	0	9.6	9.7	0.1	-1.2	-1.23	1	1	0	900	900	0
2/5/2025 19:23	13503	MCMI_T2	1	0	-1	0.3	0	-0.3	0.79	0.8	0	0	0	0	0	0
2/5/2025 19:23	13704	SCHN_T2	0	0	0	0	0	0	-0.81	-0.8	0	0	0	0	0	0
2/5/2025 19:24	40801	EXCH_T2	0	1	1	0	0	0	0.9	0.91	0	0	0	0	0	0
2/5/2025 19:24	66502	SMAN_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
2/5/2025 19:24	55508	HERS_T2	2	2	0	1.45	1.5	0.05	0	0	1	1	0	1200	1200	0
2/5/2025 19:24	43202	MVIL_T2	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
2/5/2025 19:24	60701	BREC_T1	0	0	0	0	0	0	-1.41	-1.34	4	4	0	2400	2400	0
2/5/2025 19:24	65206	PRIN_T4	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:24	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:24	44902	SCOT_T2	12	0	-12	0.13	0	-0.13	0	0	0	0	0	0	0	0
2/5/2025 19:24	61304	EARL_T1	1	7	6	0.1	0.1	0	0	0	0	0	0	0	0	0
2/5/2025 19:24	64903	MILL_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
2/5/2025 19:24	66505	SMAN_T2	3	3	0	0.9	0.73	-0.17	0	0	0	0	0	0	0	0
2/5/2025 19:24	40101	HUNT_T2	0	1	1	0	0	0	-2.88	-2.86	0	0	0	0	0	0
2/5/2025 19:24	44901	SCOT_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
2/5/2025 19:24	61701	ELIZ_T1	1	1	0	4.9	5.1	0.2	0.29	0.12	0	0	0	0	0	0
2/5/2025 19:24	17805	GILB_T2	3	0	-3	1.27	0	-1.27	0.18	0.76	0	0	0	0	0	0
2/5/2025 19:24	65207	PRIN_T4	2	2	0	3.15	2	-1.15	0	0	0	0	0	0	0	0
2/5/2025 19:24	63501	HEID_TBK1-2	60	113	53	0.43	0.46	0.03	-0.51	-0.51	1	1	0	900	900	0
2/5/2025 19:25	40603	PIGR_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/5/2025 19:25	40602	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 19:25	24104	EHAZ_T1	0	0	0	0	0	0	-1.7	-1.72	2	2	0	2400	2400	0
2/5/2025 19:25	41602	CLEV_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:25	60701	BREC_T1	0	0	0	0	0	0	-0.71	-0.67	2	2	0	1200	1200	0
2/5/2025 19:25	65702	RVIL_T2	0	0	0	0	0	0	-1.56	-1.54	1	1	0	600	600	0
2/5/2025 19:25	10801	CHHI_T1	0	0	0	0	0	0	-1.4	-1.37	2	2	0	1500	1500	0
2/5/2025 19:25	60201	ATGL_T2	4	36	32	0.33	0.21	-0.12	-0.09	-0.11	0	0	0	0	0	0
2/5/2025 19:25	10705	CATA_T2	0	0	0	0	0	0	-3.24	-3.24	4	4	0	3600	3600	0
2/5/2025 19:25	24101	EHAZ_T1	38	42	4	1.67	1.84	0.17	0	0	0	0	0	0	0	0
2/5/2025 19:25	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
2/5/2025 19:25	61304	EARL_T1	1	7	6	0.1	0.1	0	-0.9	-0.88	1	1	0	600	600	0
2/5/2025 19:25	13302	ORVI_T2	22	12	-10	0.15	0.16	0.01	1.08	1.07	0	0	0	0	0	0
2/5/2025 19:25	61301	EARL_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/5/2025 19:25	24102	EHAZ_T1	7	4	-3	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
2/5/2025 19:25	66505	SMAN_T2	3	3	0	0.9	0.73	-0.17	0	0	0	0	0	0	0	0
2/5/2025 19:25	66504	SMAN_T2	0	0	0	0	0	0	-0.36	-0.41	0	0	0	0	0	0
2/5/2025 19:25	24105	EHAZ_T1	15	11	-4	1.89	2.61	0.72	0	0	0	0	0	0	0	0
2/5/2025 19:25	27901	BCRK_T1	3	4	1	2.23	1.68	-0.55	0	0	0	0	0	0	0	0
2/5/2025 19:25	40601	PIGR_T1	31	59	28	0.18	0.23	0.05	0	0	0	0	0	0	0	0
2/5/2025 19:25	44201	POIN_T1	0	0	0	0	0	0	-2.2	-2.19	2	2	0	2100	2100	0
2/5/2025 19:25	45501	DERR_T2	0	0	0	0	0	0	0.52	0.43	4	4	0	3600	3600	0
2/5/2025 19:25	61802	EELI_T2	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
2/5/2025 19:26	40601	PIGR_T1	31	59	28	0.18	0.23	0.05	0	0	0	0	0	0	0	0
2/5/2025 19:26	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:26	40602	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 19:26	42501	ALTA_T2	0	0	0	0	0	0	0.03	0.03	1	1	0	600	600	0
2/5/2025 19:26	43301	WATS_T2	0	0	0	0	0	0	0.21	0.25	0	0	0	0	0	0
2/5/2025 19:26	41802	GOCI_T2	14	11	-3	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
2/5/2025 19:26	43402	BENT_T1	0	2	2	0	0	0	-0.89	-0.91	1	1	0	900	900	0
2/5/2025 19:26	48301	ORWI_T1	2	2	0	4.5	4.35	-0.15	0.08	0.12	0	0	0	0	0	0
2/5/2025 19:26	21403	EXET_T2	0	0	0	0	0	0	-1.38	-1.36	0	0	0	0	0	0
2/5/2025 19:26	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 19:26	45501	DERR_T2	0	0	0	0	0	0	0.26	0.21	2	2	0	1800	1800	0
2/5/2025 19:26	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:26	60701	BREC_T1	0	0	0	0	0	0	-0.35	-0.33	1	1	0	600	600	0
2/5/2025 19:26	41801	GOCI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/5/2025 19:26	40603	PIGR_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/5/2025 19:26	62105	ELAN_T1	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
2/5/2025 19:26	48902	FOSP_T2	0	0	0	0	0	0	0.18	0.22	0	0	0	0	0	0
2/5/2025 19:26	44201	POIN_T1	0	0	0	0	0	0	-2.2	-2.19	2	2	0	2100	2100	0
2/5/2025 19:27	26401	INOR_T1	12	34	22	1.38	0.99	-0.39	0	0	0	0	0	0	0	0
2/5/2025 19:27	64801	MONE_T2	0	0	0	0	0	0	0.11	0.15	0	0	0	0	0	0
2/5/2025 19:27	67702	WERN_T2	0	0	0	0	0	0	-1.34	-1.36	0	0	0	0	0	0
2/5/2025 19:27	52001	LING_T1	0	0	0	0	0	0	0.32	0.36	0	0	0	0	0	0
2/5/2025 19:27	40603	PIGR_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/5/2025 19:27	66502	SMAN_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
2/5/2025 19:27	10705	CATA_T2	0	0	0	0	0	0	-0.81	-0.81	1	1	0	900	900	0
2/5/2025 19:27	66504	SMAN_T2	0	0	0	0	0	0	-0.36	-0.41	0	0	0	0	0	0
2/5/2025 19:27	61503	EPET_T1	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
2/5/2025 19:27	46802	HEPB_T1	1	1	0	1.4	1.6	0.2	-1.18	-1.14	0	0	0	0	0	0
2/5/2025 19:27	40101	HUNT_T2	0	1	1	0	0	0	-1.44	-1.43	0	0	0	0	0	0
2/5/2025 19:27	42701	AUGU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:27	40602	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 19:27	62105	ELAN_T1	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
2/5/2025 19:27	16103	BING_T2	0	0	0	0	0	0	-1.46	-1.48	1	1	0	900	900	0
2/5/2025 19:27	54504	ENOL_T2	0	0	0	0	0	0	-1.05	-1.04	1	1	0	600	600	0
2/5/2025 19:27	53501	EVIL_T2	1	1	0	2	0.3	-1.7	-0.95	-0.87	1	1	0	600	600	0
2/5/2025 19:27	65702	RVIL_T2	0	0	0	0	0	0	-1.56	-1.54	1	1	0	600	600	0
2/5/2025 19:27	14602	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/5/2025 19:27	57205	ROSS_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
2/5/2025 19:27	16102	BING_T2	0	1	1	0	5	5	0	0	0	0	0	0	0	0
2/5/2025 19:27	43304	WATS_T2	0	1	1	0	0	0	-0.85	-0.62	0	0	0	0	0	0
2/5/2025 19:27	66505	SMAN_T2	3	3	0	0.9	0.73	-0.17	0	0	0	0	0	0	0	0
2/5/2025 19:27	60701	BREC_T1	0	0	0	0	0	0	-0.35	-0.33	1	1	0	600	600	0
2/5/2025 19:27	10801	CHHI_T1	0	0	0	0	0	0	-1.4	-1.37	2	2	0	1500	1500	0
2/5/2025 19:27	54501	ENOL_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
2/5/2025 19:27	54503	ENOL_T2	0	4	4	0	0.1	0.1	-0.33	-0.37	1	1	0	600	600	0
2/5/2025 19:27	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
2/5/2025 19:27	41602	CLEV_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:27	40601	PIGR_T1	31	59	28	0.18	0.23	0.05	0	0	0	0	0	0	0	0
2/5/2025 19:27	54601	SUMM_T2	4	5	1	0.28	0.32	0.04	-1.65	-1.71	2	2	0	2100	2100	0
2/5/2025 19:27	14603	SWHI_T1	0	0	0	0	0	0	-1.58	-1.57	2	2	0	1200	1200	0
2/5/2025 19:27	26402	INOR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:28	41602	CLEV_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:28	52403	GRPA_T2	5	4	-1	0.44	0.85	0.41	-0.41	-0.41	0	0	0	0	0	0
2/5/2025 19:28	42701	AUGU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:28	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:28	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:28	65205	PRIN_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
2/5/2025 19:28	57203	ROSS_T1	0	0	0	0	0	0	0.54	0.5	0	0	0	0	0	0
2/5/2025 19:28	52402	GRPA_T2	3	5	2	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
2/5/2025 19:28	54504	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:28	44505	HAMI_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
2/5/2025 19:28	40601	PIGR_T1	31	59	28	0.18	0.23	0.05	0	0	0	0	0	0	0	0
2/5/2025 19:28	54506	ENOL_T2	0	0	0	0	0	0	0.99	0.83	2	2	0	1200	1200	0
2/5/2025 19:28	66502	SMAN_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
2/5/2025 19:28	54503	ENOL_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 19:28	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
2/5/2025 19:28	47901	HRDG_T1	0	0	0	0	0	0	1.04	1.17	0	0	0	0	0	0
2/5/2025 19:28	51604	DUKE_T2	0	2	2	0	0.1	0.1	0	0	1	1	0	900	900	0
2/5/2025 19:28	40603	PIGR_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/5/2025 19:28	65202	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 19:28	23401	HONE_T2	28	39	11	0.45	0.35	-0.1	0.21	0.17	0	0	0	0	0	0
2/5/2025 19:28	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:28	44502	HAMI_T2	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
2/5/2025 19:28	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:28	66505	SMAN_T2	3	3	0	0.9	0.73	-0.17	-0.47	-0.52	1	1	0	900	900	0
2/5/2025 19:28	60201	ATGL_T2	4	36	32	0.33	0.21	-0.12	-0.09	-0.11	0	0	0	0	0	0
2/5/2025 19:28	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/5/2025 19:28	40602	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 19:29	40602	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 19:29	53903	HALI_T2	2	2	0	0.95	0.65	-0.3	0	0	0	0	0	0	0	0
2/5/2025 19:29	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 19:29	40201	BEGA_T2	8	11	3	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
2/5/2025 19:29	13704	SCHN_T2	0	0	0	0	0	0	-0.81	-0.8	0	0	0	0	0	0
2/5/2025 19:29	54503	ENOL_T2	0	4	4	0	0.1	0.1	-0.66	-0.74	2	2	0	1200	1200	0
2/5/2025 19:29	53901	HALI_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/5/2025 19:29	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:29	44505	HAMI_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
2/5/2025 19:29	24202	PROV_T4	0	0	0	0	0	0	-0.76	-0.75	1	1	0	1200	1200	0
2/5/2025 19:29	63501	HEID_TBK1-2	60	113	53	0.43	0.46	0.03	-0.51	-0.51	1	1	0	900	900	0
2/5/2025 19:29	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
2/5/2025 19:29	55508	HERS_T2	2	2	0	1.45	1.5	0.05	0	0	1	1	0	1200	1200	0
2/5/2025 19:29	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
2/5/2025 19:29	40603	PIGR_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/5/2025 19:29	61001	DONV_T1	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
2/5/2025 19:29	40801	EXCH_T2	0	1	1	0	0	0	0.9	0.91	0	0	0	0	0	0
2/5/2025 19:29	42503	ALTA_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
2/5/2025 19:29	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:29	66503	SMAN_T2	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
2/5/2025 19:29	53501	EVIL_T2	1	1	0	2	0.3	-1.7	-0.95	-0.87	1	1	0	600	600	0
2/5/2025 19:29	63802	HEMP_T1	0	0	0	0	0	0	0.14	0.19	0	0	0	0	0	0
2/5/2025 19:29	41602	CLEV_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:29	66504	SMAN_T2	0	0	0	0	0	0	-0.36	-0.41	0	0	0	0	0	0
2/5/2025 19:29	40601	PIGR_T1	31	59	28	0.18	0.23	0.05	0	0	0	0	0	0	0	0
2/5/2025 19:29	44301	BEAV_T2	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
2/5/2025 19:29	14602	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/5/2025 19:29	66502	SMAN_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
2/5/2025 19:29	44502	HAMI_T2	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
2/5/2025 19:29	60201	ATGL_T2	4	36	32	0.33	0.21	-0.12	-0.09	-0.11	0	0	0	0	0	0
2/5/2025 19:29	14603	SWHI_T1	0	0	0	0	0	0	-1.58	-1.57	2	2	0	1200	1200	0
2/5/2025 19:29	63804	HEMP_T1	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
2/5/2025 19:29	53101	WTWN_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/5/2025 19:29	66505	SMAN_T2	3	3	0	0.9	0.73	-0.17	0	0	0	0	0	0	0	0
2/5/2025 19:29	67402	WAKE_T2	0	0	0	0	0	0	-0.35	-0.36	1	1	0	600	600	0
2/5/2025 19:30	17805	GILB_T2	0	0	0	0	0	0	0.18	0.26	0	0	0	0	0	0
2/5/2025 19:30	58102	NEKI_T1	1	1	0	1.2	1.1	-0.1	0.38	0.39	0	0	0	0	0	0
2/5/2025 19:30	43202	MVIL_T2	0	1	1	0	0	0	-0.65	-0.64	0	0	0	0	0	0
2/5/2025 19:30	62105	ELAN_T1	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
2/5/2025 19:30	48901	FOSP_T2	0	0	0	0	0	0	0.75	0.84	0	0	0	0	0	0
2/5/2025 19:30	40602	PIGR_T1	1	1	0	0.1	0	-0.1	0.85	0.82	0	0	0	0	0	0
2/5/2025 19:30	42902	MIDD_T2	4	2	-2	0.6	0.65	0.05	-0.59	-0.6	0	0	0	0	0	0
2/5/2025 19:30	40603	PIGR_T1	1	1	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
2/5/2025 19:30	40801	EXCH_T2	1	4	3	0.2	0	-0.2	1.8	1.81	0	0	0	0	0	0
2/5/2025 19:30	43304	WATS_T2	0	1	1	0	0	0	-0.43	-0.31	0	0	0	0	0	0
2/5/2025 19:30	54502	ENOL_T2	0	0	0	0	0	0	-1.89	-1.95	1	1	0	600	600	0
2/5/2025 19:30	64802	MONE_T2	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
2/5/2025 19:30	46004	BERW_T2	1	1	0	0.5	0.1	-0.4	-0.49	-0.45	0	0	0	0	0	0
2/5/2025 19:30	13503	MCMI_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
2/5/2025 19:30	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:30	61502	EPET_T1	0	0	0	0	0	0	-1.08	-1.03	0	0	0	0	0	0
2/5/2025 19:30	54503	ENOL_T2	4	2	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/5/2025 19:30	54601	SUMM_T2	5	3	-2	0.32	0.5	0.18	0	0	0	0	0	0	0	0
2/5/2025 19:30	54603	SUMM_T2	0	0	0	0	0	0	-0.36	-0.32	1	1	0	900	900	0
2/5/2025 19:30	64902	MILL_T2	0	0	0	0	0	0	-0.67	-0.68	1	1	0	900	900	0
2/5/2025 19:30	53501	EVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/5/2025 19:30	45501	DERR_T2	0	0	0	0	0	0	0.26	0.21	2	2	0	1800	1800	0
2/5/2025 19:30	40601	PIGR_T1	57	80	23	0.23	0.27	0.04	-0.15	-0.11	0	0	0	0	0	0
2/5/2025 19:30	20601	GRWO_T2	1	1	0	3.2	2.1	-1.1	0	0	0	0	0	0	0	0
2/5/2025 19:30	40201	BEGA_T2	9	8	-1	0.33	0.35	0.02	0	0	0	0	0	0	0	0
2/5/2025 19:30	60701	BREC_T1	0	0	0	0	0	0	-0.35	-0.33	1	1	0	600	600	0
2/5/2025 19:30	61803	EELI_T2	0	0	0	0	0	0	0.8	0.81	0	0	0	0	0	0
2/5/2025 19:30	54505	ENOL_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
2/5/2025 19:30	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:30	20603	GRWO_T2	15	35	20	0.19	0.21	0.02	0.53	0.53	0	0	0	0	0	0
2/5/2025 19:30	41802	GOCI_T2	7	13	6	0.16	0.16	0	0	0	0	0	0	0	0	0
2/5/2025 19:30	42903	MIDD_T2	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
2/5/2025 19:30	42802	SELI_T1	0	0	0	0	0	0	-1.71	-1.73	0	0	0	0	0	0
2/5/2025 19:31	14603	SWHI_T1	0	0	0	0	0	0	-1.58	-1.57	2	2	0	1200	1200	0
2/5/2025 19:31	40603	PIGR_T1	1	1	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
2/5/2025 19:31	65303	NBRI_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
2/5/2025 19:31	10801	CHHI_T1	0	1	1	0	0	0	-1.4	-1.37	2	2	0	1500	1500	0
2/5/2025 19:31	54601	SUMM_T2	5	3	-2	0.32	0.5	0.18	-1.65	-1.71	2	2	0	2100	2100	0
2/5/2025 19:31	54505	ENOL_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
2/5/2025 19:31	40601	PIGR_T1	57	80	23	0.23	0.27	0.04	-0.15	-0.11	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/5/2025 19:31	66505	SMAN_T2	3	3	0	0.53	1.13	0.6	-0.47	-0.52	1	1	0	900	900	0
2/5/2025 19:31	48901	FOSP_T2	0	0	0	0	0	0	0.5	0.56	0	0	0	0	0	0
2/5/2025 19:31	10701	CATA_T2	0	0	0	0	0	0	-0.63	-0.68	0	0	0	0	0	0
2/5/2025 19:31	14602	SWHI_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/5/2025 19:31	65702	RVIL_T2	0	0	0	0	0	0	-1.56	-1.54	1	1	0	600	600	0
2/5/2025 19:31	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:31	64802	MONE_T2	0	0	0	0	0	0	-0.02	-0.03	0	0	0	0	0	0
2/5/2025 19:31	60701	BREC_T1	0	0	0	0	0	0	-0.35	-0.33	1	1	0	600	600	0
2/5/2025 19:31	16102	BING_T2	1	1	0	4.3	5	0.7	0	0	0	0	0	0	0	0
2/5/2025 19:31	53501	EVIL_T2	0	1	1	0	0.4	0.4	-0.95	-0.87	1	1	0	600	600	0
2/5/2025 19:31	66502	SMAN_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
2/5/2025 19:31	40602	PIGR_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/5/2025 19:31	57205	ROSS_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
2/5/2025 19:31	54501	ENOL_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
2/5/2025 19:31	57203	ROSS_T1	0	0	0	0	0	0	1.08	1	0	0	0	0	0	0
2/5/2025 19:31	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:31	43304	WATS_T2	0	1	1	0	0	0	-0.43	-0.31	0	0	0	0	0	0
2/5/2025 19:31	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/5/2025 19:31	61304	EARL_T1	7	0	-7	0.1	0	-0.1	-1.8	-1.76	2	2	0	1200	1200	0
2/5/2025 19:31	18001	ZION_T1	2	2	0	8.6	9	0.4	0	0	0	0	0	0	0	0
2/5/2025 19:31	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:31	41802	GOCI_T2	7	13	6	0.16	0.16	0	0	0	0	0	0	0	0	0
2/5/2025 19:31	54503	ENOL_T2	4	2	-2	0.1	0.1	0	-0.99	-1.11	3	3	0	1800	1800	0
2/5/2025 19:31	54504	ENOL_T2	0	0	0	0	0	0	-2.1	-2.08	2	2	0	1200	1200	0
2/5/2025 19:32	58201	NEWV_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/5/2025 19:32	44901	SCOT_T2	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
2/5/2025 19:32	54502	ENOL_T2	0	0	0	0	0	0	-1.89	-1.95	1	1	0	600	600	0
2/5/2025 19:32	54501	ENOL_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
2/5/2025 19:32	43304	WATS_T2	0	1	1	0	0	0	-0.85	-0.62	0	0	0	0	0	0
2/5/2025 19:32	58202	NEWV_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
2/5/2025 19:32	54504	ENOL_T2	0	0	0	0	0	0	-1.05	-1.04	1	1	0	600	600	0
2/5/2025 19:32	59101	WALK_T2	0	0	0	0	0	0	0.37	0.84	1	1	0	600	600	0
2/5/2025 19:32	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:32	53501	EVIL_T2	0	1	1	0	0.4	0.4	-0.95	-0.87	1	1	0	600	600	0
2/5/2025 19:32	45802	HEGI_T2	3	35	32	0.2	0.56	0.36	1.29	1.27	0	0	0	0	0	0
2/5/2025 19:32	41902	REED_T1	68	54	-14	0.51	0.4	-0.11	1.24	1.21	0	0	0	0	0	0
2/5/2025 19:32	54503	ENOL_T2	4	2	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/5/2025 19:32	61703	ELIZ_T1	0	0	0	0	0	0	-0.83	-0.84	1	1	0	900	900	0
2/5/2025 19:32	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:32	67702	WBIN_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
2/5/2025 19:32	54505	ENOL_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
2/5/2025 19:32	61701	ELIZ_T1	1	1	0	4.9	5.3	0.4	0	0	0	0	0	0	0	0
2/5/2025 19:32	44902	SCOT_T2	0	13	13	0	0.14	0.14	-0.89	-0.92	0	0	0	0	0	0
2/5/2025 19:33	13501	MCMI_T1	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/5/2025 19:33	43304	WATS_T2	0	1	1	0	0	0	-0.43	-0.31	0	0	0	0	0	0
2/5/2025 19:33	61304	EARL_T1	7	0	-7	0.1	0	-0.1	-0.9	-0.88	1	1	0	600	600	0
2/5/2025 19:33	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
2/5/2025 19:33	59101	WALK_T2	0	0	0	0	0	0	0.37	0.84	1	1	0	600	600	0
2/5/2025 19:33	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
2/5/2025 19:33	40601	PIGR_T1	57	80	23	0.23	0.27	0.04	0	0	0	0	0	0	0	0
2/5/2025 19:33	40603	PIGR_T1	1	1	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
2/5/2025 19:33	58401	MORO_T1	0	0	0	0	0	0	-1	-1.03	1	1	0	600	600	0
2/5/2025 19:33	10805	CHHI_T2	1	1	0	8.4	8.2	-0.2	-0.91	-1	1	1	0	600	600	0
2/5/2025 19:33	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:33	57201	ROSS_T1	0	0	0	0	0	0	-1.47	-1.51	0	0	0	0	0	0
2/5/2025 19:33	63804	HEMP_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
2/5/2025 19:33	40602	PIGR_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/5/2025 19:33	63801	HEMP_T1	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
2/5/2025 19:33	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:33	58402	MORO_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
2/5/2025 19:33	51604	DUKE_T2	2	0	-2	0.1	0	-0.1	0	0	1	1	0	900	900	0
2/5/2025 19:34	63804	HEMP_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
2/5/2025 19:34	58402	MORO_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
2/5/2025 19:34	42903	MIDD_T2	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
2/5/2025 19:34	44902	SCOT_T2	0	13	13	0	0.14	0.14	-0.89	-0.92	0	0	0	0	0	0
2/5/2025 19:34	22601	KIMB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:34	54501	ENOL_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
2/5/2025 19:34	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	-1.18	-1.13	0	0	0	0	0	0
2/5/2025 19:34	58401	MORO_T1	0	0	0	0	0	0	-1	-1.03	1	1	0	600	600	0
2/5/2025 19:34	52403	GRPA_T2	3	7	4	0.6	1	0.4	0	0	0	0	0	0	0	0
2/5/2025 19:34	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
2/5/2025 19:34	63501	HEID_TBK1-2	73	129	56	0.41	0.48	0.07	-0.51	-0.51	1	1	0	900	900	0
2/5/2025 19:34	42902	MIDD_T2	4	2	-2	0.6	0.65	0.05	0	0	0	0	0	0	0	0
2/5/2025 19:34	43304	WATS_T2	0	1	1	0	0	0	-0.43	-0.31	0	0	0	0	0	0
2/5/2025 19:34	67402	WAKE_T2	0	0	0	0	0	0	-0.35	-0.36	1	1	0	600	600	0
2/5/2025 19:34	54505	ENOL_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
2/5/2025 19:34	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/5/2025 19:34	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:34	60701	BREC_T1	0	0	0	0	0	0	-0.35	-0.33	1	1	0	600	600	0
2/5/2025 19:34	52402	GRPA_T2	3	5	2	0.43	0.5	0.07	0	0	0	0	0	0	0	0
2/5/2025 19:34	63801	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:34	63803	HEMP_T1	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
2/5/2025 19:34	27605	PIRI_T2	0	0	0	0	0	0	-1.91	-1.88	1	1	0	900	900	0
2/5/2025 19:34	54503	ENOL_T2	4	2	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/5/2025 19:35	52403	GRPA_T2	3	7	4	0.6	1	0.4	-0.41	-0.41	0	0	0	0	0	0
2/5/2025 19:35	20603	GRWO_T2	15	35	20	0.19	0.21	0.02	0	0	0	0	0	0	0	0
2/5/2025 19:35	52402	GRPA_T2	3	5	2	0.43	0.5	0.07	0	0	0	0	0	0	0	0
2/5/2025 19:35	60902	DONG_T2	0	0	0	0	0	0	0.46	0.5	0	0	0	0	0	0
2/5/2025 19:35	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:35	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/5/2025 19:35	67402	WAKE_T2	0	0	0	0	0	0	-0.35	-0.36	1	1	0	600	600	0
2/5/2025 19:35	53101	WTWN_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/5/2025 19:35	20601	GRWO_T2	1	1	0	3.2	2.1	-1.1	0.62	0.64	0	0	0	0	0	0
2/5/2025 19:35	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:35	53501	EVIL_T2	0	1	1	0	0.4	0.4	-0.95	-0.87	1	1	0	600	600	0
2/5/2025 19:35	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/5/2025 19:36	55001	NEWP_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/5/2025 19:36	44201	POIN_T1	0	2	2	0	0.1	0.1	-2.19	-2.16	2	2	0	2100	2100	0
2/5/2025 19:36	61801	EELI_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
2/5/2025 19:36	59101	WALK_T2	0	0	0	0	0	0	0.37	0.84	1	1	0	600	600	0
2/5/2025 19:36	41902	REED_T1	68	54	-14	0.51	0.4	-0.11	1.21	1.16	0	0	0	0	0	0
2/5/2025 19:36	53802	MBRG_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
2/5/2025 19:36	55002	NEWP_T1	5	5	0	0.68	0.62	-0.06	-0.21	-0.21	0	0	0	0	0	0
2/5/2025 19:36	52403	GRPA_T2	3	7	4	0.6	1	0.4	0	0	0	0	0	0	0	0
2/5/2025 19:36	44902	SCOT_T2	0	13	13	0	0.14	0.14	-0.92	-0.91	0	0	0	0	0	0
2/5/2025 19:36	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/5/2025 19:36	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/5/2025 19:36	63501	HEID_TBK1-2	73	129	56	0.41	0.48	0.07	-0.51	-0.53	1	1	0	900	900	0
2/5/2025 19:36	57203	ROSS_T1	0	0	0	0	0	0	0.54	0.5	0	0	0	0	0	0
2/5/2025 19:36	52402	GRPA_T2	3	5	2	0.43	0.5	0.07	0	0	0	0	0	0	0	0
2/5/2025 19:37	40602	PIGR_T1	1	1	0	0.1	0	-0.1	0.82	0.85	0	0	0	0	0	0
2/5/2025 19:37	52402	GRPA_T2	3	5	2	0.43	0.5	0.07	0	0	0	0	0	0	0	0
2/5/2025 19:37	40801	EXCH_T2	1	4	3	0.2	0	-0.2	0.91	0.97	0	0	0	0	0	0
2/5/2025 19:37	40603	PIGR_T1	1	1	0	1.6	0	-1.6	0	0	0	0	0	0	0	0
2/5/2025 19:37	54505	ENOL_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
2/5/2025 19:37	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
2/5/2025 19:37	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/5/2025 19:37	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:37	54504	ENOL_T2	0	0	0	0	0	0	-1.04	-1.03	1	1	0	600	600	0
2/5/2025 19:37	54503	ENOL_T2	4	2	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/5/2025 19:37	66505	SMAN_T2	3	3	0	0.53	1.13	0.6	0	0	0	0	0	0	0	0
2/5/2025 19:37	65502	MOJO_T2	0	0	0	0	0	0	-0.97	-1	0	0	0	0	0	0
2/5/2025 19:37	41902	REED_T1	68	54	-14	0.51	0.4	-0.11	1.21	1.16	0	0	0	0	0	0
2/5/2025 19:37	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/5/2025 19:37	40601	PIGR_T1	57	80	23	0.23	0.27	0.04	-0.11	-0.16	0	0	0	0	0	0
2/5/2025 19:37	52403	GRPA_T2	3	7	4	0.6	1	0.4	-0.41	-0.43	0	0	0	0	0	0
2/5/2025 19:37	44301	BEAV_T2	0	0	0	0	0	0	-0.33	-0.31	1	1	0	600	600	0
2/5/2025 19:38	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-1.43	-1.33	0	0	0	0	0	0
2/5/2025 19:38	44502	HAMI_T2	1	1	0	2	2.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 19:38	45802	HEGI_T2	3	35	32	0.2	0.56	0.36	1.27	0.88	0	0	0	0	0	0
2/5/2025 19:38	41204	KENM_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
2/5/2025 19:38	53501	EVIL_T2	0	1	1	0	0.4	0.4	-0.87	-0.92	1	1	0	600	600	0
2/5/2025 19:38	43304	WATS_T2	0	1	1	0	0	0	-0.31	-0.39	0	0	0	0	0	0
2/5/2025 19:38	42903	MIDD_T2	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
2/5/2025 19:38	42902	MIDD_T2	4	2	-2	0.6	0.65	0.05	0	0	0	0	0	0	0	0
2/5/2025 19:38	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:39	57205	ROSS_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
2/5/2025 19:39	58202	NEWV_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
2/5/2025 19:39	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:39	58201	NEWV_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/5/2025 19:39	55105	WERT_T1	0	0	0	0	0	0	-0.41	-0.4	1	1	0	900	900	0
2/5/2025 19:40	42903	MIDD_T2	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
2/5/2025 19:40	53903	HALI_T2	0	2	2	0	0.65	0.65	-0.03	-0.08	0	0	0	0	0	0
2/5/2025 19:40	57205	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:40	53901	HALI_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/5/2025 19:40	53902	HALI_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
2/5/2025 19:40	42902	MIDD_T2	4	2	-2	0.6	0.65	0.05	-1.2	-1.18	0	0	0	0	0	0
2/5/2025 19:41	42802	SELI_T1	0	0	0	0	0	0	-1.73	-1.71	0	0	0	0	0	0
2/5/2025 19:42	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:43	50501	MECH_T1	4	4	0	1.23	1.05	-0.18	0	0	0	0	0	0	0	0
2/5/2025 19:43	13103	NHAM_T2	3	3	0	1.67	0	-1.67	-1.59	-1.61	1	1	0	600	600	0
2/5/2025 19:43	13105	NHAM_T2	17	17	0	1.46	2.47	1.01	0	0	0	0	0	0	0	0
2/5/2025 19:43	50502	MECH_T1	1	1	0	2.2	1.8	-0.4	0	0	0	0	0	0	0	0
2/5/2025 19:43	25402	LAHA_T2	21	25	4	0.83	0.68	-0.15	0.27	0.23	0	0	0	0	0	0
2/5/2025 19:43	50506	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 19:44	65702	RVIL_T2	0	0	0	0	0	0	-1.54	-1.57	1	1	0	600	600	0
2/5/2025 19:47	13704	SCHN_T2	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
2/5/2025 19:51	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/5/2025 19:51	54505	ENOL_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
2/5/2025 19:51	54503	ENOL_T2	0	5	5	0	0.1	0.1	-0.37	-0.35	1	1	0	600	600	0
2/5/2025 20:00	41801	GOCI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/5/2025 20:00	41802	GOCI_T2	10	16	6	0.17	0.26	0.09	0	0	0	0	0	0	0	0
2/5/2025 20:17	55501	HERS_T1	2	23	21	0.1	0.1	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/5/2025 20:17	55507	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2025 20:23	54601	SUMM_T2	4	8	4	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
2/5/2025 20:23	54603	SUMM_T2	0	1	1	0	0.1	0.1	-0.4	-0.37	1	1	0	900	900	0
2/5/2025 20:31	64904	MILL_T1	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
2/5/2025 20:35	64904	MILL_T1	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
2/5/2025 20:41	64904	MILL_T1	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
2/5/2025 21:03	60701	BREC_T1	0	50	50	0	0.14	0.14	-0.35	-0.38	1	1	0	600	600	0
2/5/2025 22:43	13704	SCHN_T2	4	50	46	0.25	0.22	-0.03	0	0	0	0	0	0	0	0
2/5/2025 22:43	13701	SCHN_T2	5	10	5	0.1	0.16	0.06	-0.1	-0.05	1	1	0	600	600	0
2/6/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.37	0.46	0	0	0	0	0	0
2/6/2025 9:00	57203	ROSS_T1	0	0	0	0	0	0	-0.15	-0.11	0	0	0	0	0	0
2/6/2025 9:00	28102	TWLA_T2	2	1	-1	0.15	0.1	-0.05	0.27	0.27	0	0	0	0	0	0
2/6/2025 10:06	66504	SMAN_T2	0	0	0	0	0	0	-1.52	-1.5	1	1	0	1200	1200	0
2/6/2025 10:08	66504	SMAN_T2	0	0	0	0	0	0	-1.52	-1.5	1	1	0	1200	1200	0
2/6/2025 10:09	66504	SMAN_T2	0	0	0	0	0	0	-1.52	-1.5	1	1	0	1200	1200	0
2/6/2025 10:23	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 10:23	67604	WARW_T1	0	0	0	0	0	0	0.27	0.31	0	0	0	0	0	0
2/6/2025 10:26	67605	WARW_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
2/6/2025 10:27	67605	WARW_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
2/6/2025 10:31	45702	LIND_T2	1	1	0	0.2	0.8	0.6	0.3	0.31	0	0	0	0	0	0
2/6/2025 10:37	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 10:47	11103	EGYP_T1	0	0	0	0	0	0	-0.83	-0.81	0	0	0	0	0	0
2/6/2025 10:47	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 10:47	11104	EGYP_T1	1	11	10	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
2/6/2025 10:59	44801	EDAN_T2	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
2/6/2025 11:03	64204	KINZ_T1	1	3	2	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
2/6/2025 11:03	64203	KINZ_T1	0	1	1	0	0	0	-0.39	-0.33	2	2	0	900	900	0
2/6/2025 11:06	40502	CRES_T2	44	43	-1	1.41	1.23	-0.18	0.13	0.14	0	0	0	0	0	0
2/6/2025 11:06	40501	CRES_T2	13	17	4	0.4	0.39	-0.01	0	0	0	0	0	0	0	0
2/6/2025 11:07	49804	UNIV_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
2/6/2025 11:07	49803	UNIV_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
2/6/2025 11:17	53502	EVIL_T2	12	12	0	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
2/6/2025 11:17	53501	EVIL_T2	2	1	-1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
2/6/2025 11:24	43304	WATS_T2	6	4	-2	0.77	0.35	-0.42	-0.62	-0.68	0	0	0	0	0	0
2/6/2025 11:27	60803	BUCK_T1	0	0	0	0	0	0	-0.46	-0.44	1	1	0	600	600	0
2/6/2025 11:28	43304	WATS_T2	6	4	-2	0.77	0.35	-0.42	-0.31	-0.34	0	0	0	0	0	0
2/6/2025 11:31	12006	HATF_T1	2	2	0	1	1	0	-0.12	-0.05	2	2	0	2400	2400	0
2/6/2025 11:31	12002	HATF_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	1200	1200	0
2/6/2025 11:31	12001	HATF_T1	2	2	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
2/6/2025 11:33	52401	GRPA_T2	9	9	0	0.34	0	-0.34	0	0	0	0	0	0	0	0
2/6/2025 11:33	12006	HATF_T1	2	2	0	1	1	0	0	0	0	0	0	0	0	0
2/6/2025 11:33	12002	HATF_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	1200	1200	0
2/6/2025 11:33	12001	HATF_T1	2	2	0	0.7	0.1	-0.6	2.46	2.55	2	2	0	1200	1200	0
2/6/2025 11:33	52403	GRPA_T2	8	6	-2	0.68	0.1	-0.58	0	0	0	0	0	0	0	0
2/6/2025 11:33	52402	GRPA_T2	13	3	-10	0.19	0.3	0.11	0	0	0	0	0	0	0	0
2/6/2025 11:34	63601	LETO_T1	2	5	3	0.2	0.44	0.24	0	0	0	0	0	0	0	0
2/6/2025 11:34	63602	LETO_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
2/6/2025 11:35	12006	HATF_T1	2	2	0	1	1	0	0	0	0	0	0	0	0	0
2/6/2025 11:35	12001	HATF_T1	2	2	0	0.7	0.1	-0.6	1.23	1.28	1	1	0	600	600	0
2/6/2025 11:36	45902	AUBU_T1	3	6	3	0.4	0.32	-0.08	0.01	0.01	1	1	0	600	600	0
2/6/2025 11:40	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 11:45	57303	MOAL_T2	1	1	0	7.5	7.2	-0.3	0	0	0	0	0	0	0	0
2/6/2025 11:45	57306	MOAL_T2	0	1	1	0	0	0	-3.02	-3.03	1	1	0	1200	1200	0
2/6/2025 11:53	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 12:04	20602	GRWO_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
2/6/2025 12:04	20603	GRWO_T2	1	7	6	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/6/2025 12:04	20601	GRWO_T2	136	102	-34	0.65	0.5	-0.15	0.88	0.79	0	0	0	0	0	0
2/6/2025 12:12	25801	SUTR_T2	8	7	-1	2.71	3.96	1.25	-0.54	-0.57	0	0	0	0	0	0
2/6/2025 12:13	29402	BELT_T1	5	5	0	1.94	1.4	-0.54	0	0	0	0	0	0	0	0
2/6/2025 12:13	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/6/2025 12:14	41504	FAIR_T2	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
2/6/2025 12:14	44501	HAMI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/6/2025 12:14	44502	HAMI_T2	1	1	0	2.2	2.5	0.3	0	0	0	0	0	0	0	0
2/6/2025 12:14	44505	HAMI_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
2/6/2025 12:16	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 12:16	44502	HAMI_T2	1	2	1	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
2/6/2025 12:18	44502	HAMI_T2	1	2	1	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
2/6/2025 12:18	24702	FLND_T2	0	6	6	0	0.1	0.1	0.07	0.16	1	1	0	1200	1200	0
2/6/2025 12:18	23401	HONE_T2	55	41	-14	0.49	0.46	-0.03	0.16	0.16	0	0	0	0	0	0
2/6/2025 12:18	24703	FLND_T2	0	10	10	0	0.15	0.15	0	0	0	0	0	0	0	0
2/6/2025 12:18	44505	HAMI_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
2/6/2025 12:18	24701	FLND_T2	2	15	13	0.95	0.21	-0.74	0	0	0	0	0	0	0	0
2/6/2025 12:20	40601	PIGR_T1	21	20	-1	0.2	0.17	-0.03	-0.05	-0.18	0	0	0	0	0	0
2/6/2025 12:22	40601	PIGR_T1	21	20	-1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
2/6/2025 12:23	40602	PIGR_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
2/6/2025 12:23	65205	PRIN_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
2/6/2025 12:23	40601	PIGR_T1	21	20	-1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
2/6/2025 12:24	40601	PIGR_T1	21	20	-1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
2/6/2025 12:25	43304	WATS_T2	2	3	1	0.65	0.75	0.1	-0.25	-0.27	0	0	0	0	0	0
2/6/2025 12:27	43304	WATS_T2	2	3	1	0.65	0.75	0.1	-0.25	-0.27	0	0	0	0	0	0
2/6/2025 12:31	44502	HAMI_T2	1	2	1	2.4	2.4	0	0.05	0.12	0	0	0	0	0	0
2/6/2025 12:31	10801	CHHI_T1	1	1	0	1.3	0.4	-0.9	-1.82	-1.9	3	3	0	2100	2100	0
2/6/2025 12:32	24101	EHAZ_T1	45	51	6	1.83	1.62	-0.21	0	0	0	0	0	0	0	0
2/6/2025 12:32	44503	HAMI_T2	0	0	0	0	0	0	-2.02	-2.04	1	1	0	1200	1200	0
2/6/2025 12:32	44502	HAMI_T2	1	2	1	2.4	2.4	0	0	0	0	0	0	0	0	0
2/6/2025 12:32	24105	EHAZ_T1	24	17	-7	2.77	2.35	-0.42	0	0	0	0	0	0	0	0
2/6/2025 12:32	24103	EHAZ_T1	4	3	-1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
2/6/2025 12:32	24102	EHAZ_T1	8	18	10	0.69	0.38	-0.31	0.16	0.14	0	0	0	0	0	0
2/6/2025 12:37	59402	RFLD_T2	0	1	1	0	0	0	-0.55	-0.79	1	1	0	450	450	0
2/6/2025 12:48	54502	ENOL_T2	0	0	0	0	0	0	-1.96	-1.97	1	1	0	600	600	0
2/6/2025 12:48	54505	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/6/2025 12:49	23401	HONE_T2	10	23	13	0.45	0.43	-0.02	0.21	0.31	0	0	0	0	0	0
2/6/2025 12:49	13905	SEID_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	1200	1200	0
2/6/2025 12:49	13904	SEID_T1	23	28	5	1.08	0.76	-0.32	0	0	0	0	0	0	0	0
2/6/2025 12:51	47101	MARL_T1	57	55	-2	1.07	1.53	0.46	0	0	0	0	0	0	0	0
2/6/2025 12:51	47104	MARL_T1	0	1	1	0	0	0	-2.11	-2.13	0	0	0	0	0	0
2/6/2025 12:55	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/6/2025 12:59	63501	HEID_TBK1-2	0	0	0	0	0	0	0.19	0.07	1	1	0	900	900	0
2/6/2025 12:59	10702	CATA_T2	0	0	0	0	0	0	-0.03	-0.07	0	0	0	0	0	0
2/6/2025 13:01	10705	CATA_T2	0	0	0	0	0	0	-0.75	-0.78	1	1	0	900	900	0
2/6/2025 13:02	21206	ECAR_T2	2	2	0	4.3	4.2	-0.1	0.31	0.36	0	0	0	0	0	0
2/6/2025 13:02	21204	ECAR_T2	4	7	3	0.3	0.7	0.4	0	0	0	0	0	0	0	0
2/6/2025 13:11	11804	FRAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 13:11	43801	SWIL_T1	2	4	2	2.45	1.33	-1.12	0	0	0	0	0	0	0	0
2/6/2025 13:11	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 13:12	54601	SUMM_T2	1	2	1	0.2	0.35	0.15	-1.71	-1.73	2	2	0	2100	2100	0
2/6/2025 13:13	24702	FLND_T2	0	0	0	0	0	0	1.03	1.06	0	0	0	0	0	0
2/6/2025 13:13	24703	FLND_T2	54	0	-54	0.18	0	-0.18	0	0	0	0	0	0	0	0
2/6/2025 13:13	61305	EARL_T1	0	0	0	0	0	0	-0.05	-0.12	1	1	0	900	900	0
2/6/2025 13:13	24701	FLND_T2	1	9	8	1	0.55	-0.45	0	0	0	0	0	0	0	0
2/6/2025 13:15	53301	GRAT_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
2/6/2025 13:16	45802	HEGI_T2	24	47	23	0.48	1.2	0.72	0.68	0.62	0	0	0	0	0	0
2/6/2025 13:16	52401	GRPA_T2	4	2	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/6/2025 13:16	52403	GRPA_T2	0	2	2	0	1.4	1.4	0	0	0	0	0	0	0	0
2/6/2025 13:16	52402	GRPA_T2	11	14	3	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
2/6/2025 13:17	10705	CATA_T2	0	0	0	0	0	0	-0.78	-0.83	1	1	0	900	900	0
2/6/2025 13:17	45802	HEGI_T2	24	47	23	0.48	1.2	0.72	0.68	0.62	0	0	0	0	0	0
2/6/2025 13:18	55508	HERS_T2	2	2	0	1.7	1.8	0.1	0	0	1	1	0	1200	1200	0
2/6/2025 13:21	57401	SPAN_T1	2	14	12	0.7	0.29	-0.41	-0.66	-0.68	1	1	0	600	600	0
2/6/2025 13:21	57403	SPAN_T1	1	11	10	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/6/2025 13:25	58003	WCAR_T1	2	33	31	0.95	0.27	-0.68	0.75	0.74	0	0	0	0	0	0
2/6/2025 13:25	58001	WCAR_T1	4	5	1	1.28	1.28	0	0.76	0.64	0	0	0	0	0	0
2/6/2025 13:26	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 13:26	58001	WCAR_T1	4	5	1	1.28	1.28	0	0	0	0	0	0	0	0	0
2/6/2025 13:26	58003	WCAR_T1	2	33	31	0.95	0.27	-0.68	1.51	1.48	0	0	0	0	0	0
2/6/2025 13:26	59202	THOM_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
2/6/2025 13:29	58001	WCAR_T1	4	5	1	1.28	1.28	0	0	0	0	0	0	0	0	0
2/6/2025 13:29	58003	WCAR_T1	2	33	31	0.95	0.27	-0.68	0.75	0.74	0	0	0	0	0	0
2/6/2025 13:37	47401	PENS_T1	0	0	0	0	0	0	0.83	0.8	0	0	0	0	0	0
2/6/2025 13:37	47403	PENS_T1	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
2/6/2025 13:37	43304	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/6/2025 13:37	43301	WATS_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
2/6/2025 13:38	57304	MOAL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/6/2025 13:38	57303	MOAL_T2	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
2/6/2025 13:38	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 13:38	57306	MOAL_T2	0	0	0	0	0	0	-3.09	-3.06	1	1	0	1200	1200	0
2/6/2025 13:42	43304	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/6/2025 13:42	43301	WATS_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
2/6/2025 13:42	59202	THOM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 13:51	54201	PENN_T1	8	7	-1	0.36	0.27	-0.09	0	0	0	0	0	0	0	0
2/6/2025 13:51	54203	PENN_T1	18	18	0	0.71	0.62	-0.09	0.69	0.7	0	0	0	0	0	0
2/6/2025 13:53	14601	SWHI_T1	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
2/6/2025 13:54	57201	ROSS_T1	7	0	-7	0.17	0	-0.17	-0.66	-0.75	0	0	0	0	0	0
2/6/2025 13:56	46001	BERW_T1	0	0	0	0	0	0	1.03	0.98	0	0	0	0	0	0
2/6/2025 13:57	14601	SWHI_T1	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
2/6/2025 13:57	57201	ROSS_T1	7	0	-7	0.17	0	-0.17	-0.66	-0.75	0	0	0	0	0	0
2/6/2025 13:59	60201	MTGL_T2	5	14	9	0.26	0.28	0.02	0.2	0.09	0	0	0	0	0	0
2/6/2025 14:07	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 14:08	54601	SUMM_T2	1	2	1	0.2	0.3	0.1	-1.74	-1.66	2	2	0	2100	2100	0
2/6/2025 14:10	57201	ROSS_T1	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
2/6/2025 14:12	67402	WAKE_T2	0	0	0	0	0	0	0.6	0.59	1	1	0	600	600	0
2/6/2025 14:13	16302	ALPA_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
2/6/2025 14:17	63305	GREE_T1	8	6	-2	0.23	0.25	0.02	-1.12	-1.21	0	0	0	0	0	0
2/6/2025 14:18	63306	GREE_T1	0	0	0	0	0	0	-1.49	-1.5	1	1	0	900	900	0
2/6/2025 14:18	63305	GREE_T1	8	6	-2	0.23	0.25	0.02	0	0	0	0	0	0	0	0
2/6/2025 14:20	46004	BERW_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
2/6/2025 14:28	61001	DONV_T1	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
2/6/2025 14:48	45902	AUBU_T1	4	0	-4	0.33	0	-0.33	0.01	0.01	1	1	0	600	600	0
2/6/2025 14:50	64902	MILL_T2	0	0	0	0	0	0	-0.63	-0.66	1	1	0	900	900	0
2/6/2025 14:50	46602	LACR_T1	1	0	-1	0.8	0	-0.8	-0.64	-0.66	0	0	0	0	0	0
2/6/2025 14:51	45902	AUBU_T1	4	0	-4	0.33	0	-0.33	0.01	0.01	1	1	0	600	600	0
2/6/2025 14:52	48302	ORWI_T2	7	7	0	1.37	0.71	-0.66	0	0	0	0	0	0	0	0
2/6/2025 14:54	65601	QVIL_T2	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/6/2025 14:54	65604	QVIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/6/2025 14:54	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 15:05	13302	ORVI_T2	0	0	0	0	0	0	1.17	1.03	0	0	0	0	0	0
2/6/2025 15:09	60301	TWVA_T2	0	0	0	0	0	0	-3.13	-3.1	2	2	0	1800	1800	0
2/6/2025 15:13	10805	CHHI_T2	1	6	5	8	8.2	0.2	-0.99	-0.96	1	1	0	600	600	0
2/6/2025 15:16	40101	HUNT_T2	0	0	0	0	0	0	-1.91	-1.96	0	0	0	0	0	0
2/6/2025 15:38	57205	ROSS_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
2/6/2025 15:38	57201	ROSS_T1	0	11	11	0	0.13	0.13	0	0	0	0	0	0	0	0
2/6/2025 15:40	58002	WCAR_T2	2	1	-1	0.95	0	-0.95	0	0	0	0	0	0	0	0
2/6/2025 15:40	58006	WCAR_T2	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
2/6/2025 15:41	57201	ROSS_T1	0	11	11	0	0.13	0.13	-0.74	-0.78	0	0	0	0	0	0
2/6/2025 15:46	52403	GRPA_T2	1	0	-1	0.3	0	-0.3	-0.56	-0.46	0	0	0	0	0	0
2/6/2025 15:46	52402	GRPA_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/6/2025 15:46	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/6/2025 15:46	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/6/2025 15:52	52502	PROG_T2	0	0	0	0	0	0	-0.4	-0.42	1	1	0	900	900	0
2/6/2025 15:53	57101	SPHI_T2	6	6	0	0.25	0.38	0.13	0.31	0.32	0	0	0	0	0	0
2/6/2025 15:53	57106	SPHI_T2	3	3	0	1.37	1.77	0.4	0	0	0	0	0	0	0	0
2/6/2025 15:53	57104	SPHI_T2	2	3	1	4.85	7.5	2.65	0	0	0	0	0	0	0	0
2/6/2025 15:54	57205	ROSS_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
2/6/2025 15:54	57201	ROSS_T1	0	12	12	0	0.14	0.14	0	0	0	0	0	0	0	0
2/6/2025 15:55	57205	ROSS_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
2/6/2025 15:55	57201	ROSS_T1	0	12	12	0	0.14	0.14	0	0	0	0	0	0	0	0
2/6/2025 15:56	57106	SPHI_T2	3	3	0	1.37	1.77	0.4	0	0	0	0	0	0	0	0
2/6/2025 15:56	57104	SPHI_T2	2	3	1	4.85	7.5	2.65	0	0	0	0	0	0	0	0
2/6/2025 15:56	57101	SPHI_T2	6	6	0	0.25	0.38	0.13	0	0	0	0	0	0	0	0
2/6/2025 15:57	57106	SPHI_T2	3	3	0	1.37	1.77	0.4	0	0	0	0	0	0	0	0
2/6/2025 15:57	57104	SPHI_T2	2	3	1	4.85	7.5	2.65	-0.46	-0.41	0	0	0	0	0	0
2/6/2025 15:57	57101	SPHI_T2	6	6	0	0.25	0.38	0.13	0	0	0	0	0	0	0	0
2/6/2025 15:58	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 15:58	62102	ELAN_T1	0	0	0	0	0	0	0.85	0.69	0	0	0	0	0	0
2/6/2025 16:19	64203	KINZ_T1	0	0	0	0	0	0	0.09	0	1	1	0	600	600	0
2/6/2025 16:19	64204	KINZ_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
2/6/2025 16:20	40502	CRES_T2	44	43	-1	1.3	1.25	-0.05	0.19	0.2	0	0	0	0	0	0
2/6/2025 16:20	40501	CRES_T2	20	13	-7	0.4	0.44	0.04	0	0	0	0	0	0	0	0
2/6/2025 16:22	57201	ROSS_T1	9	13	4	0.14	0.18	0.04	0	0	0	0	0	0	0	0
2/6/2025 16:22	57205	ROSS_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
2/6/2025 16:22	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 16:23	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 16:23	52403	GRPA_T2	0	3	3	0	0.4	0.4	-0.49	-0.4	0	0	0	0	0	0
2/6/2025 16:23	57201	ROSS_T1	9	13	4	0.14	0.18	0.04	0	0	0	0	0	0	0	0
2/6/2025 16:23	57203	ROSS_T1	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
2/6/2025 16:23	52404	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 18:07	59402	RFLD_T2	0	0	0	0	0	0	-0.88	-0.9	1	1	0	450	450	0
2/6/2025 18:50	44502	HAMI_T2	1	1	0	2.4	2.6	0.2	0	0	0	0	0	0	0	0
2/6/2025 18:50	44503	HAMI_T2	0	0	0	0	0	0	-2.03	-2.08	1	1	0	1200	1200	0
2/6/2025 18:50	44505	HAMI_T2	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
2/6/2025 18:56	21202	ECAR_T2	9	7	-2	1.34	0.5	-0.84	0	0	0	0	0	0	0	0
2/6/2025 18:56	21204	ECAR_T2	15	9	-6	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
2/6/2025 18:56	21206	ECAR_T2	1	1	0	7.4	7.3	-0.1	0.19	0.15	0	0	0	0	0	0
2/6/2025 18:58	47104	MARL_T1	0	0	0	0	0	0	-2.17	-2.16	0	0	0	0	0	0
2/6/2025 18:58	47101	MARL_T1	17	27	10	1	0.73	-0.27	0	0	0	0	0	0	0	0
2/6/2025 19:03	46004	BERW_T2	1	4	3	0.8	0	-0.8	-0.58	-0.55	0	0	0	0	0	0
2/6/2025 19:03	41504	FAIR_T2	0	1	1	0	0	0	-0.4	-0.4	0	0	0	0	0	0
2/6/2025 19:04	48302	ORWI_T2	2	2	0	1.25	1.1	-0.15	0	0	0	0	0	0	0	0
2/6/2025 19:05	24101	EHAZ_T1	41	40	-1	2.26	1.56	-0.7	0	0	0	0	0	0	0	0
2/6/2025 19:05	24105	EHAZ_T1	30	21	-9	1.65	2.29	0.64	0	0	0	0	0	0	0	0
2/6/2025 19:05	24102	EHAZ_T1	2	8	6	0.15	0.13	-0.02	-0.45	-0.27	0	0	0	0	0	0
2/6/2025 19:06	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 19:06	44502	HAMI_T2	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
2/6/2025 19:07	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/6/2025 19:07	44502	HAMI_T2	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
2/6/2025 19:08	40501	CRES_T2	10	16	6	0.51	0.48	-0.03	0	0	0	0	0	0	0	0
2/6/2025 19:08	40502	CRES_T2	43	43	0	1.37	1.42	0.05	0.2	0.19	0	0	0	0	0	0
2/6/2025 19:09	10805	CHHI_T2	9	7	-2	1.6	1.93	0.33	-0.91	-1.01	1	1	0	600	600	0
2/6/2025 19:09	25801	SUTR_T2	2	4	2	9.5	9.45	-0.05	-0.58	-0.58	0	0	0	0	0	0
2/6/2025 19:11	40601	PIGR_T1	74	121	47	0.29	0.31	0.02	0	0	0	0	0	0	0	0
2/6/2025 19:11	46001	BERW_T1	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
2/6/2025 19:12	29402	BELT_T1	2	5	3	3.25	6.6	3.35	0	0	0	0	0	0	0	0
2/6/2025 19:12	24701	FLND_T2	31	29	-2	1.41	0.59	-0.82	0	0	0	0	0	0	0	0
2/6/2025 19:12	24702	FLND_T2	0	11	11	0	0	0	1.01	1.14	0	0	0	0	0	0
2/6/2025 19:12	42701	AUGU_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/6/2025 19:12	29401	BELT_T1	2	0	-2	0.1	0	-0.1	0	0	1	1	0	900	900	0
2/6/2025 19:12	24703	FLND_T2	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
2/6/2025 19:13	46602	LACR_T1	0	0	0	0	0	0	-0.7	-0.65	0	0	0	0	0	0
2/6/2025 19:13	45902	AUBU_T1	0	2	2	0	0.4	0.4	0.01	0.01	1	1	0	600	600	0
2/6/2025 19:13	40601	PIGR_T1	74	121	47	0.29	0.31	0.02	0	0	0	0	0	0	0	0
2/6/2025 19:14	45902	AUBU_T1	0	2	2	0	0.4	0.4	0.01	0.01	1	1	0	600	600	0
2/6/2025 19:15	40601	PIGR_T1	102	189	87	0.32	0.4	0.08	-0.13	-0.13	0	0	0	0	0	0
2/6/2025 19:15	24703	FLND_T2	1	41	40	0.1	0.17	0.07	0	0	0	0	0	0	0	0
2/6/2025 19:15	44502	HAMI_T2	1	1	0	2.5	2.7	0.2	0.02	0.02	0	0	0	0	0	0
2/6/2025 19:15	10705	CATA_T2	0	0	0	0	0	0	-0.83	-0.84	1	1	0	900	900	0
2/6/2025 19:15	40602	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/6/2025 19:15	10801	CHHI_T1	0	0	0	0	0	0	-2.05	-2.03	3	3	0	2100	2100	0
2/6/2025 19:15	24702	FLND_T2	11	1	-10	0.21	0	-0.21	1.01	1.14	0	0	0	0	0	0
2/6/2025 19:15	24701	FLND_T2	20	19	-1	0.74	0.76	0.02	0	0	0	0	0	0	0	0
2/6/2025 19:16	45902	AUBU_T1	2	2	0	0.4	0.75	0.35	0.01	0.01	1	1	0	600	600	0
2/6/2025 19:17	16302	ALPA_T2	0	0	0	0	0	0	-0.62	-0.66	0	0	0	0	0	0
2/6/2025 19:17	40101	HUNT_T2	0	0	0	0	0	0	-2.05	-2.04	0	0	0	0	0	0
2/6/2025 19:19	10705	CATA_T2	0	0	0	0	0	0	-0.83	-0.84	1	1	0	900	900	0
2/6/2025 19:19	60201	ATGL_T2	49	64	15	0.24	0.26	0.02	-0.06	-0.12	0	0	0	0	0	0
2/6/2025 19:19	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 19:20	43304	WATS_T2	0	1	1	0	0.5	0.5	-0.43	-0.44	0	0	0	0	0	0
2/6/2025 19:21	12001	HATF_T1	0	0	0	0	0	0	0.79	0.73	1	1	0	600	600	0
2/6/2025 19:21	13302	ORVI_T2	1	6	5	0.1	0.1	0	0.9	0.82	0	0	0	0	0	0
2/6/2025 19:21	12002	HATF_T1	0	0	0	0	0	0	-0.96	-1.02	1	1	0	1200	1200	0
2/6/2025 19:21	11104	EGYP_T1	21	1	-20	0.32	0	-0.32	0	0	0	0	0	0	0	0
2/6/2025 19:21	10702	CATA_T2	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
2/6/2025 19:21	60301	TWVA_T2	0	0	0	0	0	0	-3.27	-3.28	2	2	0	1800	1800	0
2/6/2025 19:21	12006	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/6/2025 19:21	11103	EGYP_T1	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
2/6/2025 19:22	63501	HEID_TBK1-2	48	106	58	0.32	0.4	0.08	-0.49	-0.47	1	1	0	900	900	0
2/6/2025 19:23	23401	HONE_T2	2	1	-1	0.15	0	-0.15	-0.07	-0.07	0	0	0	0	0	0
2/6/2025 19:23	11804	FRAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 19:23	43304	WATS_T2	0	1	1	0	0.5	0.5	-0.44	-0.42	0	0	0	0	0	0
2/6/2025 19:23	12006	HATF_T1	1	0	-1	0.1	0	-0.1	0.32	0.37	1	1	0	1200	1200	0
2/6/2025 19:23	23402	HONE_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 19:24	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 19:24	43801	SWIL_T1	2	2	0	3	3.1	0.1	0	0	0	0	0	0	0	0
2/6/2025 19:24	43301	WATS_T2	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
2/6/2025 19:24	47401	PENS_T1	0	0	0	0	0	0	0.84	0.85	0	0	0	0	0	0
2/6/2025 19:24	45802	HEGI_T2	47	48	1	1.27	2.25	0.98	0.53	0.47	0	0	0	0	0	0
2/6/2025 19:24	44502	HAMI_T2	1	1	0	2.5	2.7	0.2	0	0	0	0	0	0	0	0
2/6/2025 19:24	43304	WATS_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/6/2025 19:24	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/6/2025 19:25	66505	SMAN_T2	3	3	0	0.73	1.33	0.6	0	0	0	0	0	0	0	0
2/6/2025 19:25	45802	HEGI_T2	47	48	1	1.27	2.25	0.98	0.53	0.47	0	0	0	0	0	0
2/6/2025 19:25	44801	EDAN_T2	1	1	0	0.9	0.2	-0.7	-0.4	-0.43	0	0	0	0	0	0
2/6/2025 19:25	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
2/6/2025 19:25	12001	HATF_T1	0	0	0	0	0	0	0.79	0.73	1	1	0	600	600	0
2/6/2025 19:25	57205	ROSS_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
2/6/2025 19:25	12006	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/6/2025 19:26	58006	WCAR_T2	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
2/6/2025 19:26	49804	UNIV_T1	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
2/6/2025 19:26	55508	HERS_T2	2	2	0	1.4	1.3	-0.1	0	0	1	1	0	1200	1200	0
2/6/2025 19:26	66505	SMAN_T2	3	3	0	0.73	1.33	0.6	0	0	0	0	0	0	0	0
2/6/2025 19:26	45702	LIND_T2	37	23	-14	0.24	0.22	-0.02	0.14	0.15	0	0	0	0	0	0
2/6/2025 19:26	49803	UNIV_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
2/6/2025 19:26	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
2/6/2025 19:27	12001	HATF_T1	0	0	0	0	0	0	0.79	0.73	1	1	0	600	600	0
2/6/2025 19:27	58001	WCAR_T1	4	4	0	1	1	0	0	0	0	0	0	0	0	0
2/6/2025 19:27	40601	PIGR_T1	102	189	87	0.32	0.4	0.08	-0.13	-0.08	0	0	0	0	0	0
2/6/2025 19:27	12002	HATF_T1	0	0	0	0	0	0	-0.96	-1.02	1	1	0	1200	1200	0
2/6/2025 19:27	12006	HATF_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/6/2025 19:27	40602	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/6/2025 19:27	58004	WCAR_T1	7	7	0	0.4	0.41	0.01	0.58	0.59	0	0	0	0	0	0
2/6/2025 19:27	57201	ROSS_T1	0	0	0	0	0	0	-0.49	-0.39	0	0	0	0	0	0
2/6/2025 19:28	40602	PIGR_T1	0	1	1	0	0.1	0.1	0.21	0.23	0	0	0	0	0	0
2/6/2025 19:28	67605	WARW_T1	1	2	1	0.5	0.7	0.2	-0.77	-0.84	0	0	0	0	0	0
2/6/2025 19:28	64902	MILL_T2	0	0	0	0	0	0	-0.73	-0.67	1	1	0	900	900	0
2/6/2025 19:28	62105	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/6/2025 19:28	65205	PRIN_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
2/6/2025 19:28	62102	ELAN_T1	0	0	0	0	0	0	0.75	0.79	0	0	0	0	0	0
2/6/2025 19:28	23402	HONE_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 19:28	63305	GREE_T1	3	2	-1	0.17	0.3	0.13	0	0	0	0	0	0	0	0
2/6/2025 19:28	62106	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/6/2025 19:28	63306	GREE_T1	0	0	0	0	0	0	-1.54	-1.54	1	1	0	900	900	0
2/6/2025 19:28	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/6/2025 19:28	65202	PRIN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/6/2025 19:28	40601	PIGR_T1	102	189	87	0.32	0.4	0.08	0	0	0	0	0	0	0	0
2/6/2025 19:28	23401	HONE_T2	2	1	-1	0.15	0	-0.15	-0.07	-0.07	0	0	0	0	0	0
2/6/2025 19:29	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 19:29	14601	SWHI_T1	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
2/6/2025 19:29	57401	SPAN_T1	2	2	0	0.9	0.8	-0.1	-0.45	-0.61	1	1	0	600	600	0
2/6/2025 19:29	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 19:30	57303	MOAL_T2	1	1	0	6.7	6.9	0.2	0	0	0	0	0	0	0	0
2/6/2025 19:30	54505	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/6/2025 19:30	63305	GREE_T1	2	2	0	0.3	0.2	-0.1	-1.5	-1.45	0	0	0	0	0	0
2/6/2025 19:30	20603	GRWO_T2	15	25	10	0.25	0.25	0	0	0	0	0	0	0	0	0
2/6/2025 19:30	54502	ENOL_T2	0	0	0	0	0	0	-1.85	-1.92	1	1	0	600	600	0
2/6/2025 19:30	57306	MOAL_T2	0	0	0	0	0	0	-3.08	-3.09	1	1	0	1200	1200	0
2/6/2025 19:30	20601	GRWO_T2	1	0	-1	0.2	0	-0.2	0.31	0.29	0	0	0	0	0	0
2/6/2025 19:30	57304	MOAL_T2	1	0	-1	7.9	0	-7.9	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/6/2025 19:30	43304	WATS_T2	1	1	0	0.5	0.5	0	-0.44	-0.42	0	0	0	0	0	0
2/6/2025 19:30	20602	GRWO_T2	5	7	2	0.16	0	-0.16	0	0	0	0	0	0	0	0
2/6/2025 19:31	44502	HAMI_T2	1	1	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
2/6/2025 19:31	57106	SPHI_T2	3	3	0	1.87	2.1	0.23	0	0	0	0	0	0	0	0
2/6/2025 19:31	58001	WCAR_T1	4	6	2	1	0.75	-0.25	0	0	0	0	0	0	0	0
2/6/2025 19:31	57104	SPHI_T2	2	2	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
2/6/2025 19:31	57205	ROSS_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
2/6/2025 19:31	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 19:31	58003	WCAR_T1	2	36	34	1.1	0.25	-0.85	0.58	0.59	0	0	0	0	0	0
2/6/2025 19:32	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 19:32	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 19:32	57106	SPHI_T2	3	3	0	1.87	2.1	0.23	0	0	0	0	0	0	0	0
2/6/2025 19:32	61001	DONV_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
2/6/2025 19:32	66505	SMAN_T2	3	3	0	1.33	1.23	-0.1	0	0	0	0	0	0	0	0
2/6/2025 19:32	57104	SPHI_T2	2	2	0	0.9	0.8	-0.1	-0.52	-0.52	0	0	0	0	0	0
2/6/2025 19:33	64203	KINZ_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
2/6/2025 19:33	58003	WCAR_T1	2	36	34	1.1	0.25	-0.85	0.58	0.59	0	0	0	0	0	0
2/6/2025 19:33	64204	KINZ_T1	7	8	1	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
2/6/2025 19:33	57201	ROSS_T1	0	0	0	0	0	0	-0.49	-0.39	0	0	0	0	0	0
2/6/2025 19:33	58001	WCAR_T1	4	6	2	1	0.75	-0.25	0	0	0	0	0	0	0	0
2/6/2025 19:33	64202	KINZ_T1	8	5	-3	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
2/6/2025 19:33	64201	KINZ_T1	7	7	0	0.47	0.44	-0.03	0	0	0	0	0	0	0	0
2/6/2025 19:33	54206	PENN_T2	0	0	0	0	0	0	-0.08	0	0	0	0	0	0	0
2/6/2025 19:34	54601	SUMM_T2	0	1	1	0	0.5	0.5	-1.76	-1.75	2	2	0	2100	2100	0
2/6/2025 19:34	67604	WARW_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
2/6/2025 19:34	57205	ROSS_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
2/6/2025 19:34	67605	WARW_T1	1	2	1	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/6/2025 19:35	66505	SMAN_T2	3	3	0	1.33	1.23	-0.1	0	0	0	0	0	0	0	0
2/6/2025 19:35	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
2/6/2025 19:35	53501	EVIL_T2	2	3	1	0.35	0.87	0.52	0	0	0	0	0	0	0	0
2/6/2025 19:35	54203	PENN_T1	18	18	0	0.56	0.66	0.1	0.63	0.63	0	0	0	0	0	0
2/6/2025 19:35	54201	PENN_T1	3	6	3	0.33	0.37	0.04	0	0	0	0	0	0	0	0
2/6/2025 19:35	57201	ROSS_T1	0	0	0	0	0	0	-0.97	-0.78	0	0	0	0	0	0
2/6/2025 19:36	65601	QVIL_T2	117	136	19	0.31	0.28	-0.03	0	0	0	0	0	0	0	0
2/6/2025 19:36	65603	QVIL_T2	23	17	-6	0.13	0.14	0.01	0	0	0	0	0	0	0	0
2/6/2025 19:36	60803	BUCK_T1	5	5	0	0.18	0.28	0.1	-0.52	-0.53	1	1	0	600	600	0
2/6/2025 19:36	65604	QVIL_T2	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/6/2025 19:36	58003	WCAR_T1	2	36	34	1.1	0.25	-0.85	0.58	0.59	0	0	0	0	0	0
2/6/2025 19:36	60801	BUCK_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/6/2025 19:36	58001	WCAR_T1	4	6	2	1	0.75	-0.25	0	0	0	0	0	0	0	0
2/6/2025 19:36	65602	QVIL_T2	5	11	6	0.28	0.22	-0.06	0	0	0	0	0	0	0	0
2/6/2025 19:37	57306	MOAL_T2	0	0	0	0	0	0	-3.09	-3.12	1	1	0	1200	1200	0
2/6/2025 19:37	57304	MOAL_T2	1	0	-1	7.9	0	-7.9	0	0	0	0	0	0	0	0
2/6/2025 19:37	67605	WARW_T1	1	2	1	0.5	0.7	0.2	-0.84	-0.82	0	0	0	0	0	0
2/6/2025 19:37	57303	MOAL_T2	1	1	0	6.7	6.9	0.2	0	0	0	0	0	0	0	0
2/6/2025 19:37	63602	LETO_T1	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
2/6/2025 19:38	57101	SPHI_T2	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
2/6/2025 19:38	57106	SPHI_T2	3	3	0	1.87	2.1	0.23	0	0	0	0	0	0	0	0
2/6/2025 19:38	57104	SPHI_T2	2	2	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
2/6/2025 19:38	52502	PROG_T2	0	0	0	0	0	0	-0.43	-0.47	1	1	0	900	900	0
2/6/2025 19:38	58001	WCAR_T1	4	6	2	1	0.75	-0.25	0.57	0.56	0	0	0	0	0	0
2/6/2025 19:38	58003	WCAR_T1	2	36	34	1.1	0.25	-0.85	0	0	0	0	0	0	0	0
2/6/2025 19:43	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2025 19:43	57203	ROSS_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
2/6/2025 19:44	59201	THOM_T1	1	5	4	0.2	0.25	0.05	0	0	0	0	0	0	0	0
2/6/2025 19:44	59202	THOM_T1	2	5	3	0.15	0.16	0.01	0	0	0	0	0	0	0	0
2/6/2025 19:46	52402	GRPA_T2	6	9	3	0.47	0.2	-0.27	0	0	0	0	0	0	0	0
2/6/2025 19:46	52403	GRPA_T2	15	7	-8	0.74	1.33	0.59	0	0	0	0	0	0	0	0
2/6/2025 19:50	52403	GRPA_T2	15	7	-8	0.74	1.33	0.59	0	0	0	0	0	0	0	0
2/6/2025 19:50	52402	GRPA_T2	6	9	3	0.47	0.2	-0.27	0	0	0	0	0	0	0	0
2/6/2025 19:53	40501	CRES_T2	22	32	10	0.43	0.42	-0.01	0	0	0	0	0	0	0	0
2/6/2025 19:53	40502	CRES_T2	43	43	0	1.46	1.56	0.1	0.19	0.18	0	0	0	0	0	0
2/6/2025 19:59	16102	BING_T2	1	1	0	3.7	3.7	0	0	0	0	0	0	0	0	0
2/6/2025 20:11	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/6/2025 20:11	14601	SWHI_T1	0	0	0	0	0	0	-0.71	-0.74	0	0	0	0	0	0
2/6/2025 21:55	13905	SEID_T1	0	0	0	0	0	0	-0.99	-1.03	1	1	0	1200	1200	0
2/6/2025 21:55	13904	SEID_T1	27	27	0	1.12	1.45	0.33	0	0	0	0	0	0	0	0
2/7/2025 7:40	57401	SPAN_T1	0	0	0	0	0	0	-1.5	-1.52	1	1	0	600	600	0
2/7/2025 7:52	60301	TWVA_T2	0	0	0	0	0	0	-6.07	-6.06	4	4	0	3600	3600	0
2/7/2025 7:59	60701	BREC_T1	0	0	0	0	0	0	-0.28	-0.28	1	1	0	600	600	0
2/7/2025 7:59	40802	EXCH_T2	0	0	0	0	0	0	-0.51	-0.46	0	0	0	0	0	0
2/7/2025 8:01	62604	ENGL_T1	12	15	3	0.16	0.18	0.02	0	0	0	0	0	0	0	0
2/7/2025 8:01	62607	ENGL_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
2/7/2025 8:01	62606	ENGL_T1	214	225	11	0.27	0.28	0.01	0	0	0	0	0	0	0	0
2/7/2025 8:01	62605	ENGL_T1	0	0	0	0	0	0	-0.84	-0.87	0	0	0	0	0	0
2/7/2025 8:08	57203	ROSS_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
2/7/2025 8:14	46002	BERW_T2	0	0	0	0	0	0	-0.73	-0.69	1	1	0	900	900	0
2/7/2025 8:15	63501	HEID_TBK1-2	35	45	10	0.29	0.3	0.01	-0.33	-0.35	2	2	0	1800	1800	0
2/7/2025 8:16	61502	EPET_T1	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
2/7/2025 8:18	63501	HEID_TBK1-2	35	45	10	0.29	0.3	0.01	-0.16	-0.17	1	1	0	900	900	0
2/7/2025 8:21	66505	SMAN_T2	0	3	3	0	0.23	0.23	-0.22	-0.15	1	1	0	900	900	0
2/7/2025 8:22	66505	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
2/7/2025 8:22	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 8:24	66505	SMAN_T2	0	3	3	0	0.23	0.23	-0.22	-0.15	1	1	0	900	900	0
2/7/2025 8:25	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
2/7/2025 8:27	58001	WCAR_T1	4	4	0	1.05	1.38	0.33	0	0	0	0	0	0	0	0
2/7/2025 8:27	58003	WCAR_T1	3	20	17	0.7	0.23	-0.47	0.05	0.74	1	0	-1	600	0	-600
2/7/2025 8:29	61304	EARL_T1	0	0	0	0	0	0	-0.66	-0.69	1	1	0	600	600	0
2/7/2025 8:34	64801	MONE_T2	9	80	71	0.13	0.36	0.23	0	0	0	0	0	0	0	0
2/7/2025 8:34	64802	MONE_T2	15	100	85	0.21	0.39	0.18	0.15	0.16	0	0	0	0	0	0
2/7/2025 8:35	27605	PIRI_T2	0	0	0	0	0	0	-1.89	-1.83	1	1	0	900	900	0
2/7/2025 8:35	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 8:35	65207	PRIN_T4	4	4	0	2.7	1.47	-1.23	0	0	0	0	0	0	0	0
2/7/2025 8:35	65206	PRIN_T4	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 8:36	64801	MONE_T2	9	80	71	0.13	0.36	0.23	0	0	0	0	0	0	0	0
2/7/2025 8:36	64802	MONE_T2	15	100	85	0.21	0.39	0.18	0.16	0.16	0	0	0	0	0	0
2/7/2025 8:37	64801	MONE_T2	9	80	71	0.13	0.36	0.23	0.05	0	0	0	0	0	0	0
2/7/2025 8:37	64802	MONE_T2	15	100	85	0.21	0.39	0.18	0	0	0	0	0	0	0	0
2/7/2025 8:38	25801	SUTR_T2	2	2	0	8.5	8.5	0	-0.01	-0.01	0	0	0	0	0	0
2/7/2025 8:44	60404	DILL_T2	0	0	0	0	0	0	0.03	0.09	1	1	0	1200	1200	0
2/7/2025 8:49	58202	NEWV_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/7/2025 8:51	55001	NEWP_T1	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
2/7/2025 8:51	55002	NEWP_T1	3	5	2	0.83	0.76	-0.07	0	0	0	0	0	0	0	0
2/7/2025 8:51	58202	NEWV_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/7/2025 8:52	65601	QVIL_T2	48	7	-41	0.14	0.17	0.03	0	0	0	0	0	0	0	0
2/7/2025 8:52	65604	QVIL_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
2/7/2025 8:52	65602	QVIL_T2	2	6	4	0.15	0.25	0.1	0	0	0	0	0	0	0	0
2/7/2025 8:52	65603	QVIL_T2	1	1	0	0.1	0.2	0.1	0.42	0.39	0	0	0	0	0	0
2/7/2025 8:53	65602	QVIL_T2	2	6	4	0.15	0.25	0.1	0	0	0	0	0	0	0	0
2/7/2025 8:53	65601	QVIL_T2	48	7	-41	0.14	0.17	0.03	0	0	0	0	0	0	0	0
2/7/2025 8:53	65603	QVIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/7/2025 8:53	65604	QVIL_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
2/7/2025 8:53	14801	TREI_T2	0	1	1	0	0.2	0.2	0.57	0.58	0	0	0	0	0	0
2/7/2025 8:55	46001	BERW_T1	0	0	0	0	0	0	0.77	0.83	0	0	0	0	0	0
2/7/2025 8:55	16801	WAGN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
2/7/2025 9:00	67604	WARW_T1	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
2/7/2025 9:00	46802	HEPB_T1	1	1	0	2	2.1	0.1	-1.21	-1.23	0	0	0	0	0	0
2/7/2025 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
2/7/2025 9:03	25402	LAHA_T2	4	5	1	2.2	2.38	0.18	-0.67	-0.67	0	0	0	0	0	0
2/7/2025 9:05	64101	REFR_T1	0	0	0	0	0	0	-0.06	-0.1	0	0	0	0	0	0
2/7/2025 9:07	20601	GRWO_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/7/2025 9:07	20603	GRWO_T2	2	8	6	0.1	0.2	0.1	-0.57	-0.58	1	1	0	900	900	0
2/7/2025 9:08	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.17	1	1	0	600	600	0
2/7/2025 9:08	43801	SWIL_T1	2	5	3	2.55	1.06	-1.49	0	0	0	0	0	0	0	0
2/7/2025 9:08	57401	SPAN_T1	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
2/7/2025 9:08	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 9:09	49804	UNIV_T1	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
2/7/2025 9:09	49803	UNIV_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
2/7/2025 9:09	14801	TREI_T2	1	1	0	0	0.2	0.2	0.58	0.56	0	0	0	0	0	0
2/7/2025 9:11	57401	SPAN_T1	1	3	2	0.1	0.37	0.27	-2.02	-1.98	2	2	0	1200	1200	0
2/7/2025 9:11	60301	TWVA_T2	0	0	0	0	0	0	-6.07	-6.03	4	4	0	3600	3600	0
2/7/2025 9:12	61304	EARL_T1	0	0	0	0	0	0	-0.72	-0.7	1	1	0	600	600	0
2/7/2025 9:12	46002	BERW_T2	0	0	0	0	0	0	-0.7	-0.7	1	1	0	900	900	0
2/7/2025 9:13	62105	ELAN_T1	0	2	2	0	0.15	0.15	0.44	0.43	0	0	0	0	0	0
2/7/2025 9:13	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/7/2025 9:13	62106	ELAN_T1	0	0	0	0	0	0	1.16	1.19	0	0	0	0	0	0
2/7/2025 9:13	62101	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/7/2025 9:14	40101	HUNT_T2	17	18	1	1.22	0.88	-0.34	-0.46	-0.51	0	0	0	0	0	0
2/7/2025 9:15	54502	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/7/2025 9:15	61301	EARL_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
2/7/2025 9:15	62101	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/7/2025 9:15	61304	EARL_T1	0	1	1	0	0.1	0.1	-0.72	-0.7	1	1	0	600	600	0
2/7/2025 9:15	62103	ELAN_T1	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 9:15	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/7/2025 9:15	62105	ELAN_T1	0	5	5	0	0.2	0.2	0.44	0.43	0	0	0	0	0	0
2/7/2025 9:15	54504	ENOL_T2	0	0	0	0	0	0	-0.99	-1	1	1	0	600	600	0
2/7/2025 9:15	61305	EARL_T1	0	0	0	0	0	0	0.52	0.53	1	1	0	900	900	0
2/7/2025 9:16	62105	ELAN_T1	0	5	5	0	0.2	0.2	0.88	0.86	0	0	0	0	0	0
2/7/2025 9:16	62103	ELAN_T1	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 9:16	61304	EARL_T1	0	1	1	0	0.1	0.1	-0.72	-0.7	1	1	0	600	600	0
2/7/2025 9:16	62101	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/7/2025 9:17	16102	BING_T2	1	0	-1	2.6	0	-2.6	0	0	0	0	0	0	0	0
2/7/2025 9:17	61304	EARL_T1	0	1	1	0	0.1	0.1	-0.72	-0.7	1	1	0	600	600	0
2/7/2025 9:20	58202	NEWV_T1	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
2/7/2025 9:21	55002	NEWP_T1	5	4	-1	0.76	0.45	-0.31	0	0	0	0	0	0	0	0
2/7/2025 9:21	55001	NEWP_T1	0	0	0	0	0	0	-0.3	-0.34	0	0	0	0	0	0
2/7/2025 9:22	58202	NEWV_T1	0	0	0	0	0	0	-0.03	-0.06	0	0	0	0	0	0
2/7/2025 9:23	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 9:23	55001	NEWP_T1	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
2/7/2025 9:23	57403	SPAN_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
2/7/2025 9:23	57401	SPAN_T1	3	2	-1	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
2/7/2025 9:23	55002	NEWP_T1	5	4	-1	0.76	0.45	-0.31	-0.18	-0.19	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/7/2025 9:23	43801	SWIL_T1	2	4	2	2.5	1.3	-1.2	0	0	0	0	0	0	0	0
2/7/2025 9:24	57401	SPAN_T1	3	2	-1	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
2/7/2025 9:24	57403	SPAN_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
2/7/2025 9:25	54203	PENN_T1	276	18	-258	0.29	0.87	0.58	0	0	0	0	0	0	0	0
2/7/2025 9:25	54201	PENN_T1	300	7	-293	0.5	0.93	0.43	-0.06	-0.05	0	0	0	0	0	0
2/7/2025 9:25	54205	PENN_T1	76	0	-76	0.39	0	-0.39	0	0	0	0	0	0	0	0
2/7/2025 9:25	64101	REFR_T1	0	2	2	0	0.15	0.15	-0.08	-0.08	0	0	0	0	0	0
2/7/2025 9:26	54201	PENN_T1	300	7	-293	0.5	0.93	0.43	0	0	0	0	0	0	0	0
2/7/2025 9:26	22601	KIMB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 9:26	54203	PENN_T1	276	18	-258	0.29	0.87	0.58	0.7	0.7	0	0	0	0	0	0
2/7/2025 9:26	54205	PENN_T1	76	0	-76	0.39	0	-0.39	0	0	0	0	0	0	0	0
2/7/2025 9:27	54205	PENN_T1	76	0	-76	0.39	0	-0.39	0	0	0	0	0	0	0	0
2/7/2025 9:27	54201	PENN_T1	300	7	-293	0.5	0.93	0.43	-0.12	-0.1	0	0	0	0	0	0
2/7/2025 9:27	54203	PENN_T1	276	18	-258	0.29	0.87	0.58	0.7	0.7	0	0	0	0	0	0
2/7/2025 9:28	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
2/7/2025 9:28	45902	AUBU_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 9:29	45902	AUBU_T1	0	2	2	0	0	0	0.01	0.01	1	1	0	600	600	0
2/7/2025 9:29	24105	EHAZ_T1	5	6	1	6.66	6.5	-0.16	0	0	0	0	0	0	0	0
2/7/2025 9:29	24104	EHAZ_T1	2	20	18	0.15	0.16	0.01	0	0	0	0	0	0	0	0
2/7/2025 9:29	24102	EHAZ_T1	1	4	3	0.6	0	-0.6	0.11	0.15	0	0	0	0	0	0
2/7/2025 9:29	24101	EHAZ_T1	39	37	-2	1.09	0.67	-0.42	0	0	0	0	0	0	0	0
2/7/2025 9:30	57201	ROSS_T1	0	0	0	0	0	0	-0.92	-0.84	0	0	0	0	0	0
2/7/2025 9:31	60404	DILL_T2	0	0	0	0	0	0	-0.03	0.03	1	1	0	1200	1200	0
2/7/2025 9:31	63501	HEID_TBK1-2	60	75	15	0.39	0.45	0.06	-0.3	-0.24	1	1	0	900	900	0
2/7/2025 9:31	47901	HRDG_T1	0	0	0	0	0	0	1.79	1.7	0	0	0	0	0	0
2/7/2025 9:31	14204	EALL_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
2/7/2025 9:33	43202	MVIL_T2	2	8	6	0.3	0.28	-0.02	-0.62	-0.62	0	0	0	0	0	0
2/7/2025 9:33	63501	HEID_TBK1-2	60	75	15	0.39	0.45	0.06	-0.59	-0.47	2	2	0	1800	1800	0
2/7/2025 9:33	57201	ROSS_T1	0	0	0	0	0	0	-0.92	-0.84	0	0	0	0	0	0
2/7/2025 9:34	64802	MONE_T2	112	80	-32	0.49	0.28	-0.21	0.16	0.32	0	0	0	0	0	0
2/7/2025 9:34	63501	HEID_TBK1-2	60	75	15	0.39	0.45	0.06	-1.18	-0.94	4	4	0	3600	3600	0
2/7/2025 9:34	64801	MONE_T2	92	74	-18	0.41	0.28	-0.13	0.01	0.01	0	0	0	0	0	0
2/7/2025 9:36	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 9:36	66504	SMAN_T2	1	6	5	0.4	0.52	0.12	-0.41	-0.33	0	0	0	0	0	0
2/7/2025 9:36	66505	SMAN_T2	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
2/7/2025 9:36	64801	MONE_T2	92	74	-18	0.41	0.28	-0.13	0	0	0	0	0	0	0	0
2/7/2025 9:36	64802	MONE_T2	112	80	-32	0.49	0.28	-0.21	0	0	0	0	0	0	0	0
2/7/2025 9:37	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 9:37	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 9:37	27605	PRI_T2	0	0	0	0	0	0	-1.85	-1.96	1	1	0	900	900	0
2/7/2025 9:37	66505	SMAN_T2	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
2/7/2025 9:37	66504	SMAN_T2	1	6	5	0.4	0.52	0.12	-0.82	-0.66	0	0	0	0	0	0
2/7/2025 9:38	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 9:38	46004	BERW_T2	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
2/7/2025 9:38	65207	PRIN_T4	3	3	0	1.83	1.57	-0.26	0	0	0	0	0	0	0	0
2/7/2025 9:38	65206	PRIN_T4	1	0	-1	3.2	0	-3.2	0	0	0	0	0	0	0	0
2/7/2025 9:40	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 9:40	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/7/2025 9:40	29402	BELT_T1	1	1	0	7.1	7.7	0.6	0	0	0	0	0	0	0	0
2/7/2025 9:40	66505	SMAN_T2	2	2	0	0.45	0.8	0.35	-0.37	-0.28	1	1	0	900	900	0
2/7/2025 9:40	66504	SMAN_T2	1	6	5	0.4	0.52	0.12	0	0	0	0	0	0	0	0
2/7/2025 9:41	66505	SMAN_T2	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
2/7/2025 9:41	66504	SMAN_T2	1	6	5	0.4	0.52	0.12	0	0	0	0	0	0	0	0
2/7/2025 9:41	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 9:43	66504	SMAN_T2	1	6	5	0.4	0.52	0.12	0	0	0	0	0	0	0	0
2/7/2025 9:43	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 9:43	66505	SMAN_T2	2	2	0	0.45	0.8	0.35	-0.37	-0.28	1	1	0	900	900	0
2/7/2025 9:45	44505	HAMI_T2	0	0	0	0	0	0	-0.1	-0.01	0	0	0	0	0	0
2/7/2025 9:45	44502	HAMI_T2	1	1	0	2.8	2.9	0.1	0	0	0	0	0	0	0	0
2/7/2025 9:45	17802	GILB_T1	0	1	1	0	0.6	0.6	0.04	0.17	0	0	0	0	0	0
2/7/2025 9:46	28403	HART_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
2/7/2025 9:47	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 9:47	24901	WHHA_T1	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
2/7/2025 9:47	24902	WHHA_T1	3	3	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/7/2025 9:47	44502	HAMI_T2	1	1	0	2.8	2.9	0.1	0	0	0	0	0	0	0	0
2/7/2025 9:48	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 9:48	44502	HAMI_T2	1	1	0	2.8	2.9	0.1	0	0	0	0	0	0	0	0
2/7/2025 9:53	58202	NEWV_T1	0	0	0	0	0	0	-0.04	0.03	0	0	0	0	0	0
2/7/2025 9:55	60701	BREC_T1	0	4	4	0	0.25	0.25	-0.29	-0.3	1	1	0	600	600	0
2/7/2025 9:56	60701	BREC_T1	0	4	4	0	0.25	0.25	-0.29	-0.3	1	1	0	600	600	0
2/7/2025 9:57	60701	BREC_T1	0	4	4	0	0.25	0.25	-0.29	-0.3	1	1	0	600	600	0
2/7/2025 9:58	62102	ELAN_T1	0	0	0	0	0	0	0.69	0.7	0	0	0	0	0	0
2/7/2025 9:58	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/7/2025 9:58	62105	ELAN_T1	5	9	4	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
2/7/2025 9:58	60701	BREC_T1	0	4	4	0	0.25	0.25	-0.29	-0.3	1	1	0	600	600	0
2/7/2025 9:58	62101	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/7/2025 9:59	60701	BREC_T1	0	4	4	0	0.25	0.25	-0.58	-0.6	2	2	0	1200	1200	0
2/7/2025 10:00	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 10:00	62101	ELAN_T1	1	0	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/7/2025 10:00	60701	BREC_T1	0	4	4	0	0.25	0.25	-0.29	-0.3	1	1	0	600	600	0
2/7/2025 10:00	62105	ELAN_T1	7	6	-1	0.14	0.17	0.03	0	0	0	0	0	0	0	0
2/7/2025 10:01	60701	BREC_T1	0	4	4	0	0.25	0.25	-0.29	-0.3	1	1	0	600	600	0
2/7/2025 10:01	52403	GRPA_T2	2	5	3	2.25	1.04	-1.21	0	0	0	0	0	0	0	0
2/7/2025 10:01	52401	GRPA_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/7/2025 10:01	40101	HUNT_T2	21	7	-14	0.93	0	-0.93	-0.43	-0.42	0	0	0	0	0	0
2/7/2025 10:01	61302	EARL_T1	0	2	2	0	0.3	0.3	1.19	1.15	2	2	0	2400	2400	0
2/7/2025 10:01	52402	GRPA_T2	11	7	-4	0.46	0.65	0.19	0	0	0	0	0	0	0	0
2/7/2025 10:01	61304	EARL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/7/2025 10:02	40101	HUNT_T2	21	7	-14	0.93	0	-0.93	-0.43	-0.42	0	0	0	0	0	0
2/7/2025 10:03	40101	HUNT_T2	21	7	-14	0.93	0	-0.93	-0.43	-0.42	0	0	0	0	0	0
2/7/2025 10:04	57403	SPAN_T1	0	8	8	0	0.15	0.15	0.13	0.12	0	0	0	0	0	0
2/7/2025 10:04	47403	PENS_T1	0	2	2	0	1.15	1.15	0	0	0	0	0	0	0	0
2/7/2025 10:04	57401	SPAN_T1	3	5	2	0.33	0.56	0.23	0	0	0	0	0	0	0	0
2/7/2025 10:04	47401	PENS_T1	0	4	4	0	0.75	0.75	0.84	0.82	0	0	0	0	0	0
2/7/2025 10:05	64801	MONE_T2	73	131	58	0.28	0.34	0.06	0	0	0	0	0	0	0	0
2/7/2025 10:05	65802	RTWN_T2	1	0	-1	0.3	0	-0.3	-0.22	-0.22	0	0	0	0	0	0
2/7/2025 10:05	44201	POIN_T1	0	0	0	0	0	0	-3.21	-3.11	4	4	0	4200	4200	0
2/7/2025 10:05	64802	MONE_T2	76	92	16	0.29	0.35	0.06	0	0	0	0	0	0	0	0
2/7/2025 10:06	57602	RUTH_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
2/7/2025 10:06	42201	SHEN_T2	0	0	0	0	0	0	-0.38	-0.38	2	2	0	1200	1200	0
2/7/2025 10:06	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:06	48602	POCA_T1	0	0	0	0	0	0	0.64	0.71	0	0	0	0	0	0
2/7/2025 10:06	55002	NEWP_T1	4	4	0	0.48	0.4	-0.08	-0.22	-0.19	0	0	0	0	0	0
2/7/2025 10:06	48302	ORWI_T2	2	2	0	1.2	1.1	-0.1	0.12	0.09	0	0	0	0	0	0
2/7/2025 10:06	48301	ORWI_T1	2	2	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
2/7/2025 10:06	44201	POIN_T1	0	0	0	0	0	0	-7.76	-8.47	10	10	0	10500	10500	0
2/7/2025 10:06	51702	OBER_T1	2	2	0	3.1	3.25	0.15	-0.73	-0.75	1	1	0	600	600	0
2/7/2025 10:06	46004	BERW_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
2/7/2025 10:07	55003	NEWP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:07	67101	SPRI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/7/2025 10:07	67001	STHI_T2	3	3	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
2/7/2025 10:07	65802	RTWN_T2	1	0	-1	0.3	0	-0.3	-0.22	-0.2	0	0	0	0	0	0
2/7/2025 10:07	13803	SALI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:07	64802	MONE_T2	76	92	16	0.29	0.35	0.06	0	0	0	0	0	0	0	0
2/7/2025 10:07	42803	SELI_T1	1	0	-1	8.7	0	-8.7	0	0	0	0	0	0	0	0
2/7/2025 10:07	44202	POIN_T2	0	0	0	0	0	0	-0.48	-0.47	1	1	0	1200	1200	0
2/7/2025 10:07	67002	STHI_T2	4	7	3	0.23	0.2	-0.03	1.31	1.3	0	0	0	0	0	0
2/7/2025 10:07	44201	POIN_T1	0	0	0	0	0	0	-1.55	-1.69	2	2	0	2100	2100	0
2/7/2025 10:07	48602	POCA_T1	0	0	0	0	0	0	0.96	1.07	0	0	0	0	0	0
2/7/2025 10:07	15203	SFAR_T2	1	1	0	0.4	0.5	0.1	-0.6	-0.59	0	0	0	0	0	0
2/7/2025 10:07	13806	SALI_T1	0	0	0	0	0	0	1.94	2.36	4	4	0	4800	4800	0
2/7/2025 10:07	51702	OBER_T1	2	2	0	3.1	3.25	0.15	-0.75	-0.72	1	1	0	600	600	0
2/7/2025 10:07	67106	SPRI_T2	0	0	0	0	0	0	-1.9	-1.88	1	1	0	900	900	0
2/7/2025 10:07	67304	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:07	44203	POIN_T2	0	0	0	0	0	0	-3.2	-2.71	8	8	0	8400	8400	0
2/7/2025 10:07	48301	ORWI_T1	2	2	0	5.1	5	-0.1	-0.75	-0.54	2	2	0	1800	1800	0
2/7/2025 10:07	64801	MONE_T2	73	131	58	0.28	0.34	0.06	0	0	0	0	0	0	0	0
2/7/2025 10:07	42801	SELI_T1	0	0	0	0	0	0	-1.22	-1.22	1	1	0	1200	1200	0
2/7/2025 10:07	67103	SPRI_T1	0	0	0	0	0	0	-0.07	-0.02	0	0	0	0	0	0
2/7/2025 10:07	42802	SELI_T1	0	0	0	0	0	0	-1.31	-1.32	1	1	0	900	900	0
2/7/2025 10:08	67106	SPRI_T2	0	0	0	0	0	0	-3.8	-3.76	2	2	0	1800	1800	0
2/7/2025 10:08	67103	SPRI_T1	0	0	0	0	0	0	-0.07	-0.02	0	0	0	0	0	0
2/7/2025 10:08	66901	SHIL_T2	0	1	1	0	0.2	0.2	-1.5	-1.49	1	1	0	1200	1200	0
2/7/2025 10:08	65802	RTWN_T2	1	0	-1	0.3	0	-0.3	-0.22	-0.2	0	0	0	0	0	0
2/7/2025 10:08	44201	POIN_T1	0	0	0	0	0	0	-1.55	-1.69	2	2	0	2100	2100	0
2/7/2025 10:08	48301	ORWI_T1	2	2	0	5.1	5	-0.1	1.13	0.81	3	3	0	2700	2700	0
2/7/2025 10:08	57602	RUTH_T2	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
2/7/2025 10:08	67101	SPRI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/7/2025 10:08	66903	SHIL_T2	1	0	-1	0.1	0	-0.1	-3.48	-3.46	0	0	0	0	0	0
2/7/2025 10:08	44202	POIN_T2	0	0	0	0	0	0	-0.48	-0.47	1	1	0	1200	1200	0
2/7/2025 10:08	48602	POCA_T1	0	0	0	0	0	0	0.64	0.71	0	0	0	0	0	0
2/7/2025 10:08	67001	STHI_T2	3	3	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
2/7/2025 10:08	67002	STHI_T2	4	7	3	0.23	0.2	-0.03	0.66	0.65	0	0	0	0	0	0
2/7/2025 10:08	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:08	50834	WALN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:09	14602	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:09	15203	SFAR_T2	1	0	-1	0.4	0.5	0.1	-0.6	-0.59	0	0	0	0	0	0
2/7/2025 10:09	57401	SPAN_T1	3	5	2	0.33	0.56	0.23	-0.92	-1.03	1	1	0	600	600	0
2/7/2025 10:09	55002	NEWP_T1	4	4	0	0.48	0.4	-0.08	-0.38	-0.36	0	0	0	0	0	0
2/7/2025 10:09	57403	SPAN_T1	0	8	8	0	0.15	0.15	0	0	0	0	0	0	0	0
2/7/2025 10:09	66901	SHIL_T2	0	1	1	0	0.2	0.2	-1.5	-1.49	1	1	0	1200	1200	0
2/7/2025 10:09	44203	POIN_T2	0	0	0	0	0	0	-0.8	-0.68	2	2	0	2100	2100	0
2/7/2025 10:09	53502	EVIL_T2	33	38	5	0.49	0.54	0.05	0	0	0	0	0	0	0	0
2/7/2025 10:09	67106	SPRI_T2	0	0	0	0	0	0	-1.9	-1.88	1	1	0	900	900	0
2/7/2025 10:09	52501	PROG_T1	0	0	0	0	0	0	0.15	0.15	1	1	0	300	300	0
2/7/2025 10:09	44201	POIN_T1	0	0	0	0	0	0	-1.55	-1.69	2	2	0	2100	2100	0
2/7/2025 10:09	65206	PRIN_T4	0	2	2	0	2.7	2.7	0	0	0	0	0	0	0	0
2/7/2025 10:09	13806	SALI_T1	0	0	0	0	0	0	0.97	1.18	2	2	0	2400	2400	0
2/7/2025 10:09	66902	SHIL_T2	0	0	0	0	0	0	-0.97	-0.99	0	0	0	0	0	0
2/7/2025 10:09	67603	WARW_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
2/7/2025 10:09	67101	SPRI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/7/2025 10:09	44202	POIN_T2	0	0	0	0	0	0	-0.48	-0.47	1	1	0	1200	1200	0
2/7/2025 10:09	67001	STHI_T2	3	3	0	0.33	0.4	0.07	0.24	0.26	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/7/2025 10:09	14601	SWHI_T1	0	0	0	0	0	0	-1.59	-1.54	0	0	0	0	0	0
2/7/2025 10:09	66903	SHIL_T2	1	0	-1	0.1	0	-0.1	-2.32	-2.3	0	0	0	0	0	0
2/7/2025 10:09	52502	PROG_T2	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
2/7/2025 10:09	67605	WARW_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/7/2025 10:09	65207	PRIN_T4	3	4	1	1.57	1.6	0.03	0	0	0	0	0	0	0	0
2/7/2025 10:09	14605	SWHI_T1	0	0	0	0	0	0	2.15	2.23	2	2	0	2400	2400	0
2/7/2025 10:09	53501	EVIL_T2	2	2	0	0.4	0.5	0.1	-0.61	-0.56	1	1	0	600	600	0
2/7/2025 10:09	42601	TUSC_T1	10	18	8	1.2	0.42	-0.78	-0.17	-0.17	2	2	0	1800	1800	0
2/7/2025 10:09	67002	STHI_T2	4	7	3	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
2/7/2025 10:09	42201	SHEN_T2	0	0	0	0	0	0	-0.19	-0.19	1	1	0	600	600	0
2/7/2025 10:09	57602	RUTH_T2	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
2/7/2025 10:09	51702	OBER_T1	2	2	0	3.1	3.25	0.15	-0.75	-0.72	1	1	0	600	600	0
2/7/2025 10:09	67003	STHI_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
2/7/2025 10:10	40101	HUNT_T2	21	7	-14	0.93	0	-0.93	-0.42	-1.05	0	0	0	0	0	0
2/7/2025 10:10	57601	RUTH_T2	0	0	0	0	0	0	-0.13	-0.13	1	1	0	900	900	0
2/7/2025 10:10	46002	BERW_T2	0	0	0	0	0	0	-0.71	-0.81	1	1	0	900	900	0
2/7/2025 10:10	57602	RUTH_T2	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
2/7/2025 10:10	55002	NEWP_T1	4	4	0	0.48	0.4	-0.08	-0.19	-0.18	0	0	0	0	0	0
2/7/2025 10:10	60803	BUCK_T1	17	17	0	0.46	0.58	0.12	0	0	0	0	0	0	0	0
2/7/2025 10:10	60801	BUCK_T1	14	23	9	0.19	0.24	0.05	0.15	0.14	0	0	0	0	0	0
2/7/2025 10:10	67001	STHI_T2	3	3	0	0.33	0.4	0.07	0.12	0.13	0	0	0	0	0	0
2/7/2025 10:10	42201	SHEN_T2	0	0	0	0	0	0	-0.38	-0.38	2	2	0	1200	1200	0
2/7/2025 10:10	67101	SPRI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/7/2025 10:10	46004	BERW_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
2/7/2025 10:10	67002	STHI_T2	4	7	3	0.23	0.2	-0.03	1.31	1.3	0	0	0	0	0	0
2/7/2025 10:10	44202	POIN_T2	0	0	0	0	0	0	-0.48	-0.47	1	1	0	1200	1200	0
2/7/2025 10:10	67603	WARW_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
2/7/2025 10:10	67103	SPRI_T1	0	0	0	0	0	0	-0.14	-0.03	0	0	0	0	0	0
2/7/2025 10:10	67605	WARW_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/7/2025 10:10	55003	NEWP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:10	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:10	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:10	66902	SHIL_T2	0	0	0	0	0	0	-3.88	-3.96	0	0	0	0	0	0
2/7/2025 10:10	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:10	57401	SPAN_T1	3	5	2	0.33	0.56	0.23	-0.92	-1.03	1	1	0	600	600	0
2/7/2025 10:10	66901	SHIL_T2	0	1	1	0	0.2	0.2	-1.5	-1.49	1	1	0	1200	1200	0
2/7/2025 10:10	65802	RTWN_T2	1	0	-1	0.3	0	-0.3	-0.66	-0.6	0	0	0	0	0	0
2/7/2025 10:10	57403	SPAN_T1	0	8	8	0	0.15	0.15	0	0	0	0	0	0	0	0
2/7/2025 10:10	64904	MILL_T1	0	0	0	0	0	0	0.65	0.71	0	0	0	0	0	0
2/7/2025 10:10	66903	SHIL_T2	1	0	-1	0.1	0	-0.1	-1.16	-1.15	0	0	0	0	0	0
2/7/2025 10:10	44201	POIN_T1	0	0	0	0	0	0	-1.55	-1.69	2	2	0	2100	2100	0
2/7/2025 10:11	67101	SPRI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/7/2025 10:11	13803	SALI_T1	0	0	0	0	0	0	1.08	0.95	6	6	0	7200	7200	0
2/7/2025 10:11	14602	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:11	52502	PROG_T2	0	0	0	0	0	0	1.14	1.2	0	0	0	0	0	0
2/7/2025 10:11	42601	TUSC_T1	10	18	8	1.2	0.42	-0.78	-0.17	-0.17	2	2	0	1800	1800	0
2/7/2025 10:11	14603	SWHI_T1	0	0	0	0	0	0	-8.25	-8.01	10	10	0	6000	6000	0
2/7/2025 10:11	66903	SHIL_T2	1	0	-1	0.1	0	-0.1	-1.16	-1.15	0	0	0	0	0	0
2/7/2025 10:11	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:11	67002	STHI_T2	4	7	3	0.23	0.2	-0.03	3.28	3.25	0	0	0	0	0	0
2/7/2025 10:11	15203	SFAR_T2	1	1	0	0.4	0.5	0.1	-0.6	-0.59	0	0	0	0	0	0
2/7/2025 10:11	44203	POIN_T2	0	0	0	0	0	0	-0.8	-0.68	2	2	0	2100	2100	0
2/7/2025 10:11	67001	STHI_T2	3	3	0	0.33	0.4	0.07	0.12	0.13	0	0	0	0	0	0
2/7/2025 10:11	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:11	44201	POIN_T1	0	0	0	0	0	0	-1.55	-1.69	2	2	0	2100	2100	0
2/7/2025 10:11	67604	WARW_T1	0	0	0	0	0	0	0.17	0.22	0	0	0	0	0	0
2/7/2025 10:11	14601	SWHI_T1	0	0	0	0	0	0	-2.39	-2.31	0	0	0	0	0	0
2/7/2025 10:11	44202	POIN_T2	0	0	0	0	0	0	-0.48	-0.47	1	1	0	1200	1200	0
2/7/2025 10:11	57602	RUTH_T2	0	0	0	0	0	0	0.61	0.51	0	0	0	0	0	0
2/7/2025 10:11	67605	WARW_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/7/2025 10:11	66901	SHIL_T2	0	1	1	0	0.2	0.2	-1.5	-1.49	1	1	0	1200	1200	0
2/7/2025 10:11	43304	WATS_T2	0	1	1	0	0.1	0.1	-0.46	-0.64	0	0	0	0	0	0
2/7/2025 10:11	13806	SALI_T1	0	0	0	0	0	0	1.46	1.77	3	3	0	3600	3600	0
2/7/2025 10:11	57401	SPAN_T1	3	5	2	0.33	0.56	0.23	-2.75	-3.09	3	3	0	1800	1800	0
2/7/2025 10:11	60701	BREC_T1	0	4	4	0	0.25	0.25	-0.3	-0.29	1	1	0	600	600	0
2/7/2025 10:11	57403	SPAN_T1	0	8	8	0	0.15	0.15	0.12	0.13	0	0	0	0	0	0
2/7/2025 10:11	60801	BUCK_T1	14	23	9	0.19	0.24	0.05	0.15	0.14	0	0	0	0	0	0
2/7/2025 10:11	60803	BUCK_T1	17	17	0	0.46	0.58	0.12	-0.5	-0.51	1	1	0	600	600	0
2/7/2025 10:11	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:11	67106	SPRI_T2	0	0	0	0	0	0	-3.8	-3.76	2	2	0	1800	1800	0
2/7/2025 10:12	61001	DONV_T1	0	1	1	0	0.4	0.4	-0.02	0.04	0	0	0	0	0	0
2/7/2025 10:12	67603	WARW_T1	0	0	0	0	0	0	0.38	0.32	0	0	0	0	0	0
2/7/2025 10:12	57401	SPAN_T1	3	5	2	0.33	0.56	0.23	-2.75	-3.09	3	3	0	1800	1800	0
2/7/2025 10:12	66903	SHIL_T2	1	0	-1	0.1	0	-0.1	-1.16	-1.15	0	0	0	0	0	0
2/7/2025 10:12	44203	POIN_T2	0	0	0	0	0	0	-0.8	-0.68	2	2	0	2100	2100	0
2/7/2025 10:12	67903	WNHO_T1	0	0	0	0	0	0	1.15	1.13	1	1	0	1200	1200	0
2/7/2025 10:12	67002	STHI_T2	4	7	3	0.23	0.2	-0.03	0.66	0.65	0	0	0	0	0	0
2/7/2025 10:12	42201	SHEN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:12	66901	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 10:12	67604	WARW_T1	0	0	0	0	0	0	0.17	0.22	0	0	0	0	0	0
2/7/2025 10:12	57403	SPAN_T1	0	8	8	0	0.15	0.15	0	0	0	0	0	0	0	0
2/7/2025 10:12	67605	WARW_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/7/2025 10:12	60803	BUCK_T1	17	17	0	0.46	0.58	0.12	-0.5	-0.51	1	1	0	600	600	0
2/7/2025 10:12	67001	STHI_T2	3	3	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
2/7/2025 10:12	57602	RUTH_T2	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
2/7/2025 10:12	20402	ASHF_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
2/7/2025 10:12	60801	BUCK_T1	14	23	9	0.19	0.24	0.05	0.15	0.14	0	0	0	0	0	0
2/7/2025 10:12	24801	VALM_T1	0	0	0	0	0	0	-0.34	-0.31	0	0	0	0	0	0
2/7/2025 10:12	20401	ASHF_T2	2	4	2	0.15	0.35	0.2	-0.2	-0.19	0	0	0	0	0	0
2/7/2025 10:13	67605	WARW_T1	0	2	2	0	0.15	0.15	-0.93	-0.93	0	0	0	0	0	0
2/7/2025 10:13	24101	EHAZ_T1	38	38	0	1.54	0.74	-0.8	0	0	0	0	0	0	0	0
2/7/2025 10:13	67001	STHI_T2	3	3	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
2/7/2025 10:13	14604	SWHI_T1	0	0	0	0	0	0	0.02	0.11	1	1	0	900	900	0
2/7/2025 10:13	67002	STHI_T2	4	7	3	0.23	0.2	-0.03	1.31	1.3	0	0	0	0	0	0
2/7/2025 10:13	60801	BUCK_T1	14	23	9	0.19	0.24	0.05	0	0	0	0	0	0	0	0
2/7/2025 10:13	15203	SFAR_T2	1	1	0	0.4	0.5	0.1	-0.6	-0.59	0	0	0	0	0	0
2/7/2025 10:13	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:13	42504	ALTA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/7/2025 10:13	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:13	44801	EDAN_T2	0	5	5	0	0.32	0.32	-0.74	-0.72	0	0	0	0	0	0
2/7/2025 10:13	47203	FAXO_T2	1	1	0	2.1	2.1	0	-1.77	-1.74	1	1	0	1200	1200	0
2/7/2025 10:13	10705	CATA_T2	0	1	1	0	0.5	0.5	-4.39	-4.47	5	5	0	4500	4500	0
2/7/2025 10:13	14601	SWHI_T1	0	0	0	0	0	0	-3.19	-3.07	0	0	0	0	0	0
2/7/2025 10:13	60803	BUCK_T1	17	17	0	0.46	0.58	0.12	-0.5	-0.51	1	1	0	600	600	0
2/7/2025 10:13	61001	DONV_T1	0	1	1	0	0.4	0.4	-0.04	0.08	0	0	0	0	0	0
2/7/2025 10:13	14602	SWHI_T1	0	1	1	0	0	0	0.49	0.45	0	0	0	0	0	0
2/7/2025 10:13	57401	SPAN_T1	3	5	2	0.33	0.56	0.23	-0.92	-1.03	1	1	0	600	600	0
2/7/2025 10:13	60701	BREC_T1	0	4	4	0	0.25	0.25	-0.3	-0.29	1	1	0	600	600	0
2/7/2025 10:13	24105	EHAZ_T1	4	4	0	6.58	6.33	-0.25	0	0	0	0	0	0	0	0
2/7/2025 10:13	24104	EHAZ_T1	16	31	15	0.13	0.2	0.07	-2.18	-2.17	1	1	0	1200	1200	0
2/7/2025 10:13	42501	ALTA_T2	0	0	0	0	0	0	-0.02	0	1	1	0	600	600	0
2/7/2025 10:13	24102	EHAZ_T1	4	8	4	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
2/7/2025 10:13	57403	SPAN_T1	0	8	8	0	0.15	0.15	0.12	0.13	0	0	0	0	0	0
2/7/2025 10:14	61001	DONV_T1	0	1	1	0	0.4	0.4	-0.02	0.04	0	0	0	0	0	0
2/7/2025 10:14	42504	ALTA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/7/2025 10:14	62101	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/7/2025 10:14	60803	BUCK_T1	17	17	0	0.46	0.58	0.12	-1	-1.02	2	2	0	1200	1200	0
2/7/2025 10:14	60801	BUCK_T1	14	23	9	0.19	0.24	0.05	0.15	0.14	0	0	0	0	0	0
2/7/2025 10:14	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 10:14	57403	SPAN_T1	0	8	8	0	0.15	0.15	0.12	0.13	0	0	0	0	0	0
2/7/2025 10:14	62105	ELAN_T1	7	6	-1	0.14	0.17	0.03	0	0	0	0	0	0	0	0
2/7/2025 10:14	57401	SPAN_T1	3	5	2	0.33	0.56	0.23	-0.92	-1.03	1	1	0	600	600	0
2/7/2025 10:14	42501	ALTA_T2	0	0	0	0	0	0	-0.02	0	1	1	0	600	600	0
2/7/2025 10:14	62102	ELAN_T1	0	0	0	0	0	0	0.7	0.76	0	0	0	0	0	0
2/7/2025 10:15	60701	BREC_T1	4	0	-4	0.25	0	-0.25	-0.3	-0.29	1	1	0	600	600	0
2/7/2025 10:15	14601	SWHI_T1	0	0	0	0	0	0	-0.8	-0.77	0	0	0	0	0	0
2/7/2025 10:15	40701	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:15	53902	HALI_T2	1	3	2	5.9	2.13	-3.77	0	0	0	0	0	0	0	0
2/7/2025 10:15	14603	SWHI_T1	0	1	1	0	0.3	0.3	-1.65	-1.6	2	2	0	1200	1200	0
2/7/2025 10:15	53903	HALI_T2	4	4	0	0.88	0.88	0	0	0	0	0	0	0	0	0
2/7/2025 10:15	62105	ELAN_T1	6	2	-4	0.12	0.3	0.18	0	0	0	0	0	0	0	0
2/7/2025 10:15	53901	HALI_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
2/7/2025 10:15	62102	ELAN_T1	0	0	0	0	0	0	0.7	0.76	0	0	0	0	0	0
2/7/2025 10:15	14604	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:15	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 10:15	10705	CATA_T2	0	1	1	0	0.5	0.5	-2.63	-2.68	3	3	0	2700	2700	0
2/7/2025 10:16	53903	HALI_T2	4	4	0	0.88	0.88	0	0	0	0	0	0	0	0	0
2/7/2025 10:16	53902	HALI_T2	1	3	2	5.9	2.13	-3.77	0	0	0	0	0	0	0	0
2/7/2025 10:16	53901	HALI_T2	1	1	0	0.8	1	0.2	-1.46	-1.41	0	0	0	0	0	0
2/7/2025 10:16	60701	BREC_T1	4	0	-4	0.25	0	-0.25	-0.6	-0.58	2	2	0	1200	1200	0
2/7/2025 10:16	61001	DONV_T1	0	1	1	0	0.8	0.8	-0.02	0.04	0	0	0	0	0	0
2/7/2025 10:17	53901	HALI_T2	1	1	0	0.8	1	0.2	-5.83	-5.64	0	0	0	0	0	0
2/7/2025 10:17	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 10:17	53902	HALI_T2	1	3	2	5.9	2.13	-3.77	0	0	0	0	0	0	0	0
2/7/2025 10:17	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:17	53903	HALI_T2	4	4	0	0.88	0.88	0	0	0	0	0	0	0	0	0
2/7/2025 10:17	42801	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:17	64203	KINZ_T1	0	0	0	0	0	0	0.98	1.24	1	1	0	600	600	0
2/7/2025 10:17	64204	KINZ_T1	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
2/7/2025 10:17	10705	CATA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/7/2025 10:18	53903	HALI_T2	4	4	0	0.88	0.88	0	0	0	0	0	0	0	0	0
2/7/2025 10:18	53901	HALI_T2	1	1	0	0.8	1	0.2	-1.46	-1.41	0	0	0	0	0	0
2/7/2025 10:18	44801	EDAN_T2	1	5	4	0.4	0.32	-0.08	-0.37	-0.36	0	0	0	0	0	0
2/7/2025 10:18	57205	ROSS_T1	0	1	1	0	1.1	1.1	0.18	0.17	0	0	0	0	0	0
2/7/2025 10:18	53902	HALI_T2	1	3	2	5.9	2.13	-3.77	0	0	0	0	0	0	0	0
2/7/2025 10:19	65402	MARI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 10:19	12006	HATF_T1	2	2	0	1.3	0.85	-0.45	-0.17	-0.22	2	2	0	2400	2400	0
2/7/2025 10:19	46506	LOHA_T1	3	3	0	2.57	3.17	0.6	-0.09	-0.1	0	0	0	0	0	0
2/7/2025 10:19	46504	LOHA_T1	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
2/7/2025 10:19	12001	HATF_T1	2	2	0	0.2	0.55	0.35	0	0	0	0	0	0	0	0
2/7/2025 10:19	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:20	46506	LOHA_T1	3	3	0	2.57	3.17	0.6	-0.09	-0.1	0	0	0	0	0	0
2/7/2025 10:20	46504	LOHA_T1	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/7/2025 10:20	55002	NEWP_T1	3	5	2	0.47	0.58	0.11	-0.19	-0.18	0	0	0	0	0	0
2/7/2025 10:21	52502	PROG_T2	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
2/7/2025 10:21	66902	SHIL_T2	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
2/7/2025 10:21	46506	LOHA_T1	3	3	0	2.57	3.17	0.6	-0.1	-0.11	0	0	0	0	0	0
2/7/2025 10:21	66901	SHIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/7/2025 10:21	46504	LOHA_T1	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
2/7/2025 10:23	43802	SWIL_T1	0	0	0	0	0	0	-0.11	-0.15	1	1	0	600	600	0
2/7/2025 10:23	43801	SWIL_T1	2	4	2	2.55	1.35	-1.2	0	0	0	0	0	0	0	0
2/7/2025 10:24	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:25	58001	WCAR_T1	4	5	1	1.63	1.22	-0.41	0.58	0.62	0	0	0	0	0	0
2/7/2025 10:25	58003	WCAR_T1	23	22	-1	0.24	0.25	0.01	1.52	1.52	0	0	0	0	0	0
2/7/2025 10:25	24206	PROV_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:25	24202	PROV_T4	0	2	2	0	0	0	-0.66	-0.69	1	1	0	1200	1200	0
2/7/2025 10:26	58001	WCAR_T1	4	5	1	1.63	1.22	-0.41	0	0	0	0	0	0	0	0
2/7/2025 10:26	58003	WCAR_T1	23	22	-1	0.24	0.25	0.01	0.76	0.76	0	0	0	0	0	0
2/7/2025 10:27	27901	BCRK_T1	1	1	0	5.8	6.7	0.9	0	0	0	0	0	0	0	0
2/7/2025 10:29	14603	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/7/2025 10:29	10801	CHHI_T1	0	1	1	0	0.1	0.1	-1.82	-1.84	3	3	0	2100	2100	0
2/7/2025 10:29	11104	EGYP_T1	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
2/7/2025 10:29	58001	WCAR_T1	4	5	1	1.63	1.22	-0.41	0	0	0	0	0	0	0	0
2/7/2025 10:29	58003	WCAR_T1	23	22	-1	0.24	0.25	0.01	0.76	0.76	0	0	0	0	0	0
2/7/2025 10:29	14604	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:30	52403	GRPA_T2	5	22	17	0.96	0.62	-0.34	-0.64	-0.67	0	0	0	0	0	0
2/7/2025 10:30	52402	GRPA_T2	4	14	10	0.75	0.59	-0.16	0	0	0	0	0	0	0	0
2/7/2025 10:30	52401	GRPA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/7/2025 10:31	11104	EGYP_T1	0	1	1	0	0	0	0.52	0.47	0	0	0	0	0	0
2/7/2025 10:34	60504	NMAN_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
2/7/2025 10:34	60502	NMAN_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
2/7/2025 10:34	26401	INOR_T1	21	53	32	0.92	0.62	-0.3	1.19	1.26	0	0	0	0	0	0
2/7/2025 10:34	60501	NMAN_T2	3	11	8	0.23	0.25	0.02	0	0	0	0	0	0	0	0
2/7/2025 10:34	64801	MONE_T2	130	140	10	0.34	0.39	0.05	0	0	0	0	0	0	0	0
2/7/2025 10:34	64802	MONE_T2	89	107	18	0.35	0.44	0.09	0.34	0.31	0	0	0	0	0	0
2/7/2025 10:35	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:35	64801	MONE_T2	130	140	10	0.34	0.39	0.05	0.02	0.02	0	0	0	0	0	0
2/7/2025 10:35	60504	NMAN_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
2/7/2025 10:35	51201	MTON_T1	6	8	2	0.15	0.29	0.14	0.09	0.1	0	0	0	0	0	0
2/7/2025 10:35	60502	NMAN_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
2/7/2025 10:35	60501	NMAN_T2	3	11	8	0.23	0.25	0.02	0	0	0	0	0	0	0	0
2/7/2025 10:35	64802	MONE_T2	89	107	18	0.35	0.44	0.09	0	0	0	0	0	0	0	0
2/7/2025 10:36	41902	REED_T1	0	1	1	0	0.2	0.2	0.27	0.35	0	0	0	0	0	0
2/7/2025 10:36	60502	NMAN_T2	1	2	1	0.1	0.15	0.05	-0.18	-0.36	0	0	0	0	0	0
2/7/2025 10:36	60504	NMAN_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
2/7/2025 10:36	60501	NMAN_T2	3	11	8	0.23	0.25	0.02	0	0	0	0	0	0	0	0
2/7/2025 10:37	65004	NEFF_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/7/2025 10:37	64801	MONE_T2	130	140	10	0.34	0.39	0.05	0	0	0	0	0	0	0	0
2/7/2025 10:37	61502	EPET_T1	0	0	0	0	0	0	-1.2	-1.04	0	0	0	0	0	0
2/7/2025 10:37	41902	REED_T1	0	1	1	0	0.2	0.2	0.27	0.35	0	0	0	0	0	0
2/7/2025 10:37	65001	NEFF_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
2/7/2025 10:37	64802	MONE_T2	89	107	18	0.35	0.44	0.09	0	0	0	0	0	0	0	0
2/7/2025 10:37	65005	NEFF_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/7/2025 10:38	60502	NMAN_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
2/7/2025 10:38	41902	REED_T1	0	1	1	0	0.2	0.2	0.27	0.35	0	0	0	0	0	0
2/7/2025 10:38	60504	NMAN_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
2/7/2025 10:38	60501	NMAN_T2	3	11	8	0.23	0.25	0.02	0	0	0	0	0	0	0	0
2/7/2025 10:39	65601	QVIL_T2	69	484	415	0.16	0.59	0.43	0	0	0	0	0	0	0	0
2/7/2025 10:39	65603	QVIL_T2	4	540	536	0.13	0.47	0.34	0.63	0.7	0	0	0	0	0	0
2/7/2025 10:39	65604	QVIL_T2	3	20	17	0.27	0.49	0.22	0	0	0	0	0	0	0	0
2/7/2025 10:39	65602	QVIL_T2	55	350	295	0.32	0.52	0.2	0	0	0	0	0	0	0	0
2/7/2025 10:40	65604	QVIL_T2	3	20	17	0.27	0.49	0.22	0	0	0	0	0	0	0	0
2/7/2025 10:40	65602	QVIL_T2	55	350	295	0.32	0.52	0.2	0	0	0	0	0	0	0	0
2/7/2025 10:40	65603	QVIL_T2	4	540	536	0.13	0.47	0.34	0.63	0.7	0	0	0	0	0	0
2/7/2025 10:40	65601	QVIL_T2	69	484	415	0.16	0.59	0.43	-0.01	0.01	0	0	0	0	0	0
2/7/2025 10:41	21204	ECAR_T2	4	5	1	0.5	0.58	0.08	-0.54	-0.55	0	0	0	0	0	0
2/7/2025 10:41	21206	ECAR_T2	2	2	0	4.25	3.8	-0.45	0	0	0	0	0	0	0	0
2/7/2025 10:42	42701	AUGU_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
2/7/2025 10:43	53502	EVIL_T2	31	4	-27	0.63	1.05	0.42	-0.04	-0.01	2	2	0	1200	1200	0
2/7/2025 10:43	53501	EVIL_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/7/2025 10:43	42701	AUGU_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
2/7/2025 10:43	24703	FLND_T2	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
2/7/2025 10:43	24701	FLND_T2	10	1	-9	0.68	1.2	0.52	0	0	0	0	0	0	0	0
2/7/2025 10:43	24702	FLND_T2	0	0	0	0	0	0	0.45	0.38	1	1	0	1200	1200	0
2/7/2025 10:44	53601	DALM_T2	1	1	0	0.2	1	0.8	-0.87	-0.98	1	1	0	900	900	0
2/7/2025 10:46	57201	ROSS_T1	0	2	2	0	0.1	0.1	-0.73	-0.68	0	0	0	0	0	0
2/7/2025 10:46	57205	ROSS_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
2/7/2025 10:47	46801	HEPB_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
2/7/2025 10:47	46803	HEPB_T2	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
2/7/2025 10:48	57205	ROSS_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
2/7/2025 10:48	57201	ROSS_T1	0	2	2	0	0.1	0.1	-0.73	-0.68	0	0	0	0	0	0
2/7/2025 10:53	60301	NWA_T2	0	0	0	0	0	0	-1.82	-1.82	2	2	0	1800	1800	0
2/7/2025 10:53	13103	NHAM_T2	0	0	0	0	0	0	-1.64	-1.67	1	1	0	600	600	0
2/7/2025 10:54	54601	SUMM_T2	8	11	3	0.54	0.72	0.18	-1.74	-1.8	2	2	0	2100	2100	0
2/7/2025 10:56	53101	WTWN_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/7/2025 10:56	53102	WTWN_T1	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
2/7/2025 10:56	16801	WAGN_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 10:57	54601	SUMM_T2	8	11	3	0.54	0.72	0.18	-1.74	-1.8	2	2	0	2100	2100	0
2/7/2025 10:57	58003	WCAR_T1	22	40	18	0.25	0.24	-0.01	0.73	0.73	0	0	0	0	0	0
2/7/2025 10:57	29401	BELT_T1	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
2/7/2025 10:57	29402	BELT_T1	1	2	1	7.7	4.1	-3.6	0	0	0	0	0	0	0	0
2/7/2025 10:57	58001	WCAR_T1	5	8	3	1.18	0.9	-0.28	0	0	0	0	0	0	0	0
2/7/2025 10:58	54603	SUMM_T2	0	0	0	0	0	0	-0.68	-0.64	2	2	0	1800	1800	0
2/7/2025 10:58	54601	SUMM_T2	8	11	3	0.54	0.72	0.18	0	0	0	0	0	0	0	0
2/7/2025 10:59	29401	BELT_T1	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
2/7/2025 10:59	10805	CHHI_T2	1	1	0	8.3	7	-1.3	-1.23	-1.27	1	1	0	600	600	0
2/7/2025 10:59	53101	WTWN_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/7/2025 10:59	53102	WTWN_T1	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
2/7/2025 10:59	29402	BELT_T1	1	2	1	7.7	4.1	-3.6	0	0	0	0	0	0	0	0
2/7/2025 11:01	41002	LAUR_T2	37	42	5	0.33	0.39	0.06	0	0	0	0	0	0	0	0
2/7/2025 11:01	41001	LAUR_T2	69	75	6	0.39	0.47	0.08	0	0	0	0	0	0	0	0
2/7/2025 11:01	51604	DUKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 11:04	40101	HUNT_T2	2	2	0	0.55	1.8	1.25	-1.09	-1.08	0	0	0	0	0	0
2/7/2025 11:06	57505	LAWN_T3	2	4	2	0.2	0.35	0.15	0	0	0	0	0	0	0	0
2/7/2025 11:06	57502	LAWN_T3	0	0	0	0	0	0	-0.67	-0.64	0	0	0	0	0	0
2/7/2025 11:08	43304	WATS_T2	0	1	1	0	0.1	0.1	-0.64	-0.56	0	0	0	0	0	0
2/7/2025 11:09	53502	EVIL_T2	4	2	-2	1.05	1.5	0.45	0.49	0.47	1	1	0	600	600	0
2/7/2025 11:09	53601	DALM_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
2/7/2025 11:09	53602	DALM_T2	0	0	0	0	0	0	-0.52	-0.53	1	1	0	600	600	0
2/7/2025 11:09	43304	WATS_T2	0	1	1	0	0.1	0.1	-0.64	-0.56	0	0	0	0	0	0
2/7/2025 11:09	53501	EVIL_T2	2	1	-1	0.5	1.4	0.9	0	0	0	0	0	0	0	0
2/7/2025 11:10	21203	ECAR_T1	0	1	1	0	0.2	0.2	-0.19	-0.21	0	0	0	0	0	0
2/7/2025 11:10	44301	BEAV_T2	0	0	0	0	0	0	-0.5	0.58	2	1	-1	1500	600	-900
2/7/2025 11:10	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 11:10	53601	DALM_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
2/7/2025 11:10	57403	SPAN_T1	9	12	3	0.22	0.28	0.06	0.12	0.14	0	0	0	0	0	0
2/7/2025 11:10	57401	SPAN_T1	15	17	2	0.39	0.33	-0.06	0	0	0	0	0	0	0	0
2/7/2025 11:10	53602	DALM_T2	0	0	0	0	0	0	-0.52	-0.53	1	1	0	600	600	0
2/7/2025 11:10	58001	WCAR_T1	5	8	3	1.3	0.94	-0.36	0	0	0	0	0	0	0	0
2/7/2025 11:10	58003	WCAR_T1	33	37	4	0.24	0.24	0	0.73	0.7	0	0	0	0	0	0
2/7/2025 11:10	43304	WATS_T2	0	1	1	0	0.1	0.1	-1.27	-1.12	0	0	0	0	0	0
2/7/2025 11:11	58006	WCAR_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
2/7/2025 11:11	41601	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 11:11	41602	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:11	58002	WCAR_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
2/7/2025 11:12	42701	AUGU_T1	1	4	3	1.3	0.63	-0.67	0	0	2	2	0	1800	1800	0
2/7/2025 11:12	57403	SPAN_T1	9	12	3	0.22	0.28	0.06	0.12	0.14	0	0	0	0	0	0
2/7/2025 11:12	41602	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:12	41601	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 11:12	57401	SPAN_T1	15	17	2	0.39	0.33	-0.06	-1.07	-1.06	1	1	0	600	600	0
2/7/2025 11:13	41602	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:13	57401	SPAN_T1	15	17	2	0.39	0.33	-0.06	0	0	0	0	0	0	0	0
2/7/2025 11:13	57403	SPAN_T1	9	12	3	0.22	0.28	0.06	0.12	0.14	0	0	0	0	0	0
2/7/2025 11:13	41601	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 11:13	61703	ELIZ_T1	2	9	7	0.45	0.42	-0.03	0	0	0	0	0	0	0	0
2/7/2025 11:13	43304	WATS_T2	0	1	1	0	0.1	0.1	-1.27	-1.12	0	0	0	0	0	0
2/7/2025 11:13	61701	ELIZ_T1	2	3	1	3.2	2.53	-0.67	-0.08	-0.03	0	0	0	0	0	0
2/7/2025 11:15	41601	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 11:15	10801	CHHI_T1	0	0	0	0	0	0	-1.16	-1.2	2	2	0	1500	1500	0
2/7/2025 11:15	41602	CLEV_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/7/2025 11:16	54504	ENOL_T2	0	1	1	0	0.4	0.4	-1.02	-1.03	1	1	0	600	600	0
2/7/2025 11:16	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:16	20601	GRWO_T2	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
2/7/2025 11:16	54505	ENOL_T2	2	2	0	0.95	1	0.05	0	0	0	0	0	0	0	0
2/7/2025 11:16	20602	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 11:18	22601	KIMB_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/7/2025 11:18	22602	KIMB_T1	0	1	1	0	0.1	0.1	0.13	0.14	0	0	0	0	0	0
2/7/2025 11:20	43301	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:20	40101	HUNT_T2	1	4	3	2.2	0.13	-2.07	-1.08	-1.15	0	0	0	0	0	0
2/7/2025 11:20	54504	ENOL_T2	0	1	1	0	0.4	0.4	-1.02	-1.03	1	1	0	600	600	0
2/7/2025 11:20	43304	WATS_T2	1	0	-1	0.1	0	-0.1	-0.64	-0.56	0	0	0	0	0	0
2/7/2025 11:20	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:20	54505	ENOL_T2	2	2	0	0.95	1	0.05	0	0	0	0	0	0	0	0
2/7/2025 11:22	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:22	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:22	67605	WARW_T1	3	11	8	0.7	0.71	0.01	-1.98	-2.1	0	0	0	0	0	0
2/7/2025 11:24	67605	WARW_T1	3	11	8	0.7	0.71	0.01	-0.99	-1.05	0	0	0	0	0	0
2/7/2025 11:24	27504	WEIS_T1	1	0	-1	0.4	0	-0.4	-0.9	-0.92	0	0	0	0	0	0
2/7/2025 11:24	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:24	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:25	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:25	67605	WARW_T1	3	11	8	0.7	0.71	0.01	0	0	0	0	0	0	0	0
2/7/2025 11:25	16302	ALPA_T2	0	0	0	0	0	0	-0.73	-0.58	0	0	0	0	0	0
2/7/2025 11:25	45902	AUBU_T1	2	0	-2	0.3	0	-0.3	0.01	0.01	1	1	0	600	600	0
2/7/2025 11:25	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:26	48302	ORWI_T2	2	2	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/7/2025 11:26	45902	AUBU_T1	2	0	-2	0.3	0	-0.3	0.01	0.01	2	2	0	1200	1200	0
2/7/2025 11:26	48303	ORWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:27	53502	EVIL_T2	2	2	0	1.5	1.45	-0.05	0.47	0.43	1	1	0	600	600	0
2/7/2025 11:27	14801	TREI_T2	0	3	3	0	0.63	0.63	0	0	0	0	0	0	0	0
2/7/2025 11:27	53501	EVIL_T2	1	14	13	0.6	0.85	0.25	0	0	0	0	0	0	0	0
2/7/2025 11:27	16302	ALPA_T2	0	0	0	0	0	0	-0.73	-0.58	0	0	0	0	0	0
2/7/2025 11:27	14802	TREI_T2	1	3	2	0.2	0.17	-0.03	0.48	0.43	0	0	0	0	0	0
2/7/2025 11:27	45902	AUBU_T1	2	0	-2	0.3	0	-0.3	0.01	0.01	1	1	0	600	600	0
2/7/2025 11:28	45902	AUBU_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/7/2025 11:29	16302	ALPA_T2	0	0	0	0	0	0	-1.46	-1.15	0	0	0	0	0	0
2/7/2025 11:29	45902	AUBU_T1	2	0	-2	0.3	0	-0.3	0.01	0.01	1	1	0	600	600	0
2/7/2025 11:31	54504	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
2/7/2025 11:31	57401	SPAN_T1	14	24	10	0.33	0.33	0	-1.06	-1.06	1	1	0	600	600	0
2/7/2025 11:31	54505	ENOL_T2	2	2	0	0.95	1	0.05	-1.25	-1.29	1	1	0	600	600	0
2/7/2025 11:31	54503	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:31	57403	SPAN_T1	12	20	8	0.27	0.33	0.06	0	0	0	0	0	0	0	0
2/7/2025 11:31	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:33	54503	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:33	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:33	54504	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
2/7/2025 11:33	54505	ENOL_T2	2	2	0	0.95	1	0.05	-1.25	-1.29	1	1	0	600	600	0
2/7/2025 11:35	58401	MORO_T1	0	2	2	0	0.3	0.3	-0.99	-1.01	1	1	0	600	600	0
2/7/2025 11:36	58401	MORO_T1	0	2	2	0	0.3	0.3	-0.99	-1.01	1	1	0	600	600	0
2/7/2025 11:37	58401	MORO_T1	0	2	2	0	0.3	0.3	-1.01	-1	1	1	0	600	600	0
2/7/2025 11:38	58401	MORO_T1	0	2	2	0	0.3	0.3	-1.01	-1	1	1	0	600	600	0
2/7/2025 11:39	67702	WERN_T2	1	2	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
2/7/2025 11:39	67703	WERN_T2	1	1	0	0.6	0.8	0.2	-0.2	-0.25	1	1	0	900	900	0
2/7/2025 11:39	58401	MORO_T1	0	2	2	0	0.3	0.3	-1.01	-1	1	1	0	600	600	0
2/7/2025 11:40	53602	DALM_T2	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
2/7/2025 11:40	43402	BENT_T1	25	12	-13	0.25	0.43	0.18	-0.88	-0.88	1	1	0	900	900	0
2/7/2025 11:40	53601	DALM_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
2/7/2025 11:41	43402	BENT_T1	25	12	-13	0.25	0.43	0.18	-0.88	-0.88	1	1	0	900	900	0
2/7/2025 11:41	15701	TANN_T1	1	1	0	4.4	4.1	-0.3	0.06	0.05	0	0	0	0	0	0
2/7/2025 11:41	54206	PENN_T2	0	31	31	0	0.11	0.11	0	0	0	0	0	0	0	0
2/7/2025 11:41	54204	PENN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:41	54202	PENN_T2	2	2	0	0.45	0.3	-0.15	0.64	0.71	0	0	0	0	0	0
2/7/2025 11:42	67703	WERN_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/7/2025 11:42	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/7/2025 11:42	53502	EVIL_T2	2	2	0	1.45	1.5	0.05	0.43	0.42	1	1	0	600	600	0
2/7/2025 11:42	53501	EVIL_T2	1	2	1	1.4	0.85	-0.55	0	0	0	0	0	0	0	0
2/7/2025 11:42	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:42	67702	WERN_T2	1	2	1	0.5	0.55	0.05	-0.71	-0.69	0	0	0	0	0	0
2/7/2025 11:43	54204	PENN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:43	54206	PENN_T2	0	31	31	0	0.11	0.11	0	0	0	0	0	0	0	0
2/7/2025 11:43	10805	CHHI_T2	4	1	-3	1.9	7.9	6	-0.65	-0.63	0	0	0	0	0	0
2/7/2025 11:43	67702	WERN_T2	1	2	1	0.5	0.55	0.05	-0.71	-0.69	0	0	0	0	0	0
2/7/2025 11:43	54202	PENN_T2	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
2/7/2025 11:43	67703	WERN_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/7/2025 11:44	54204	PENN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 11:44	24801	VALM_T1	0	0	0	0	0	0	-0.25	-0.31	0	0	0	0	0	0
2/7/2025 11:44	54206	PENN_T2	0	31	31	0	0.11	0.11	0	0	0	0	0	0	0	0
2/7/2025 11:44	41001	LAUR_T2	70	79	9	0.41	0.49	0.08	0	0	0	0	0	0	0	0
2/7/2025 11:44	41002	LAUR_T2	38	43	5	0.34	0.43	0.09	-0.98	-0.98	0	0	0	0	0	0
2/7/2025 11:44	24902	WHHA_T1	5	10	5	0.54	0.82	0.28	0.8	0.84	0	0	0	0	0	0
2/7/2025 11:44	54202	PENN_T2	2	2	0	0.45	0.3	-0.15	0.64	0.71	0	0	0	0	0	0
2/7/2025 11:45	57403	SPAN_T1	13	22	9	0.35	0.3	-0.05	0.13	0.13	0	0	0	0	0	0
2/7/2025 11:45	58002	WCAR_T2	5	6	1	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
2/7/2025 11:45	41801	GOCI_T2	1	35	34	0.1	0.31	0.21	0	0	0	0	0	0	0	0
2/7/2025 11:45	58006	WCAR_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/7/2025 11:45	10801	CHHI_T1	0	2	2	0	0.85	0.85	-1.24	-1.25	2	2	0	1500	1500	0
2/7/2025 11:45	57401	SPAN_T1	13	25	12	0.45	0.34	-0.11	0	0	0	0	0	0	0	0
2/7/2025 11:45	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.03	0	0	0	0	0	0
2/7/2025 11:46	20601	GRWO_T2	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
2/7/2025 11:46	20603	GRWO_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/7/2025 11:46	57403	SPAN_T1	13	22	9	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
2/7/2025 11:46	57401	SPAN_T1	13	25	12	0.45	0.34	-0.11	0	0	0	0	0	0	0	0
2/7/2025 11:47	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 11:47	41801	GOCI_T2	1	35	34	0.1	0.31	0.21	0	0	0	0	0	0	0	0
2/7/2025 11:52	67604	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 11:52	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 11:52	67605	WARW_T1	8	6	-2	0.85	0.95	0.1	-1.06	-0.96	0	0	0	0	0	0
2/7/2025 11:53	67604	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 11:53	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 11:53	67605	WARW_T1	8	6	-2	0.85	0.95	0.1	-2.11	-1.91	0	0	0	0	0	0
2/7/2025 11:54	58202	NEWV_T1	3	4	1	0.23	0.28	0.05	0	0	0	0	0	0	0	0
2/7/2025 11:54	58201	NEWV_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
2/7/2025 11:55	67201	TEHI_T1	2	0	-2	0.2	0	-0.2	0.92	0.74	1	1	0	900	900	0
2/7/2025 11:55	67203	TEHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 11:57	67604	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 11:57	67603	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 11:57	67605	WARW_T1	8	6	-2	0.85	0.95	0.1	0	0	0	0	0	0	0	0
2/7/2025 12:00	57402	SPAN_T2	1	3	2	0.6	0.27	-0.33	0	0	0	0	0	0	0	0
2/7/2025 12:00	57404	SPAN_T2	0	0	0	0	0	0	0.04	0.04	1	1	0	1200	1200	0
2/7/2025 12:01	14203	EALL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 12:01	57403	SPAN_T1	20	27	7	0.31	0.33	0.02	0.13	0.12	0	0	0	0	0	0
2/7/2025 12:01	14201	EALL_T1	0	0	0	0	0	0	0.58	0.62	0	0	0	0	0	0
2/7/2025 12:01	57401	SPAN_T1	24	35	11	0.29	0.41	0.12	-1.12	-1.04	1	1	0	600	600	0
2/7/2025 12:02	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 12:02	57401	SPAN_T1	24	35	11	0.29	0.41	0.12	0	0	0	0	0	0	0	0
2/7/2025 12:02	40101	HUNT_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
2/7/2025 12:02	54502	ENOL_T2	1	2	1	0.7	0.6	-0.1	-2.04	-2.06	1	1	0	600	600	0
2/7/2025 12:02	57403	SPAN_T1	20	27	7	0.31	0.33	0.02	0	0	0	0	0	0	0	0
2/7/2025 12:02	54504	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
2/7/2025 12:02	54505	ENOL_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
2/7/2025 12:03	40101	HUNT_T2	1	1	0	0.1	0.6	0.5	-1.15	-1.21	0	0	0	0	0	0
2/7/2025 12:04	54502	ENOL_T2	1	2	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
2/7/2025 12:04	54505	ENOL_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
2/7/2025 12:04	20601	GRWO_T2	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
2/7/2025 12:04	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 12:04	20603	GRWO_T2	2	3	1	0.2	0.43	0.23	0	0	0	0	0	0	0	0
2/7/2025 12:04	54504	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
2/7/2025 12:11	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 12:11	41602	CLEV_T1	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
2/7/2025 12:11	44301	BEAV_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 12:11	42903	MIDD_T2	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
2/7/2025 12:11	41601	CLEV_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/7/2025 12:11	42902	MIDD_T2	2	3	1	0.15	0.53	0.38	-0.72	-0.69	0	0	0	0	0	0
2/7/2025 12:12	41601	CLEV_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/7/2025 12:12	42903	MIDD_T2	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
2/7/2025 12:12	41602	CLEV_T1	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
2/7/2025 12:12	42902	MIDD_T2	2	3	1	0.15	0.53	0.38	-0.48	-0.46	0	0	0	0	0	0
2/7/2025 12:13	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 12:13	44301	BEAV_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 12:13	24105	EHAZ_T1	4	4	0	6.45	6.3	-0.15	0	0	0	0	0	0	0	0
2/7/2025 12:13	24103	EHAZ_T1	0	0	0	0	0	0	-0.19	-0.21	0	0	0	0	0	0
2/7/2025 12:13	24104	EHAZ_T1	56	54	-2	0.31	0.27	-0.04	0	0	0	0	0	0	0	0
2/7/2025 12:13	24101	EHAZ_T1	33	30	-3	0.97	0.61	-0.36	0	0	0	0	0	0	0	0
2/7/2025 12:13	24102	EHAZ_T1	1	2	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/7/2025 12:14	44302	BEAV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 12:14	42903	MIDD_T2	2	2	0	0.15	0.45	0.3	0	0	0	0	0	0	0	0
2/7/2025 12:14	44301	BEAV_T2	0	3	3	0	0.1	0.1	0.35	0.34	1	1	0	600	600	0
2/7/2025 12:14	42902	MIDD_T2	2	3	1	0.15	0.53	0.38	0	0	0	0	0	0	0	0
2/7/2025 12:15	52402	GRPA_T2	13	17	4	0.65	0.66	0.01	0	0	0	0	0	0	0	0
2/7/2025 12:15	40802	EXCH_T2	1	1	0	0.3	0.5	0.2	-0.56	-0.62	0	0	0	0	0	0
2/7/2025 12:15	52404	GRPA_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
2/7/2025 12:15	52401	GRPA_T2	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
2/7/2025 12:15	52403	GRPA_T2	17	31	14	0.55	0.36	-0.19	0	0	0	0	0	0	0	0
2/7/2025 12:16	52403	GRPA_T2	17	31	14	0.55	0.36	-0.19	0	0	0	0	0	0	0	0
2/7/2025 12:16	52401	GRPA_T2	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
2/7/2025 12:16	52402	GRPA_T2	13	17	4	0.65	0.66	0.01	0	0	0	0	0	0	0	0
2/7/2025 12:16	52404	GRPA_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
2/7/2025 12:17	52401	GRPA_T2	1	2	1	0.5	0.15	-0.35	-0.57	-0.58	0	0	0	0	0	0
2/7/2025 12:17	52404	GRPA_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
2/7/2025 12:17	52403	GRPA_T2	17	31	14	0.55	0.36	-0.19	-0.72	-0.79	0	0	0	0	0	0
2/7/2025 12:17	52402	GRPA_T2	13	17	4	0.65	0.66	0.01	0	0	0	0	0	0	0	0
2/7/2025 12:17	40802	EXCH_T2	1	1	0	0.3	0.5	0.2	-0.56	-0.62	0	0	0	0	0	0
2/7/2025 12:19	54505	ENOL_T2	2	2	0	0.85	0.9	0.05	0	0	0	0	0	0	0	0
2/7/2025 12:19	54504	ENOL_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
2/7/2025 12:19	52402	GRPA_T2	13	17	4	0.65	0.66	0.01	0	0	0	0	0	0	0	0
2/7/2025 12:19	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 12:19	52401	GRPA_T2	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
2/7/2025 12:19	52403	GRPA_T2	17	31	14	0.55	0.36	-0.19	0	0	0	0	0	0	0	0
2/7/2025 12:19	58401	MORO_T1	1	1	0	0.2	0.2	0	-1.02	-1.04	1	1	0	600	600	0
2/7/2025 12:19	54506	ENOL_T2	0	0	0	0	0	0	0.35	0.32	1	0	-1	600	0	-600
2/7/2025 12:19	52404	GRPA_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
2/7/2025 12:19	54502	ENOL_T2	1	2	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
2/7/2025 12:20	59002	MIFF_T1	2	6	4	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
2/7/2025 12:20	59003	MIFF_T1	0	1	1	0	0.5	0.5	0.05	-0.09	0	0	0	0	0	0
2/7/2025 12:21	40101	HUNT_T2	1	1	0	0.5	0.6	0.1	-1.2	-1.14	0	0	0	0	0	0
2/7/2025 12:22	65603	QVIL_T2	586	643	57	0.67	0.87	0.2	0.46	0.66	0	0	0	0	0	0
2/7/2025 12:22	65601	QVIL_T2	571	623	52	0.69	0.8	0.11	-0.04	-0.11	0	0	0	0	0	0
2/7/2025 12:22	58401	MORO_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/7/2025 12:22	65602	QVIL_T2	412	488	76	0.5	0.61	0.11	0	0	0	0	0	0	0	0
2/7/2025 12:22	58402	MORO_T1	0	1	1	0	0.1	0.1	0.06	0.03	2	2	0	1500	1500	0
2/7/2025 12:22	65604	QVIL_T2	30	63	33	0.49	0.37	-0.12	0.39	0.37	0	0	0	0	0	0
2/7/2025 12:23	65604	QVIL_T2	30	63	33	0.49	0.37	-0.12	0.39	0.37	0	0	0	0	0	0
2/7/2025 12:23	65602	QVIL_T2	412	488	76	0.5	0.61	0.11	0.19	0.26	0	0	0	0	0	0
2/7/2025 12:23	65603	QVIL_T2	586	643	57	0.67	0.87	0.2	0	0	0	0	0	0	0	0
2/7/2025 12:23	65601	QVIL_T2	571	623	52	0.69	0.8	0.11	0	0	0	0	0	0	0	0
2/7/2025 12:24	65604	QVIL_T2	30	63	33	0.49	0.37	-0.12	0.39	0.37	0	0	0	0	0	0
2/7/2025 12:24	65602	QVIL_T2	412	488	76	0.5	0.61	0.11	0	0	0	0	0	0	0	0
2/7/2025 12:24	65603	QVIL_T2	586	643	57	0.67	0.87	0.2	0	0	0	0	0	0	0	0
2/7/2025 12:24	65601	QVIL_T2	571	623	52	0.69	0.8	0.11	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/7/2025 12:25	65603	QVIL_T2	586	643	57	0.67	0.87	0.2	0	0	0	0	0	0	0	0
2/7/2025 12:25	17001	RIRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 12:25	65604	QVIL_T2	30	63	33	0.49	0.37	-0.12	0	0	0	0	0	0	0	0
2/7/2025 12:25	67605	WARW_T1	4	5	1	0.78	0.46	-0.32	-0.95	-0.99	0	0	0	0	0	0
2/7/2025 12:25	65602	QVIL_T2	412	488	76	0.5	0.61	0.11	0.19	0.26	0	0	0	0	0	0
2/7/2025 12:25	67303	WYOM_T2	0	1	1	0	0.4	0.4	-0.53	-0.53	0	0	0	0	0	0
2/7/2025 12:25	65601	QVIL_T2	571	623	52	0.69	0.8	0.11	0	0	0	0	0	0	0	0
2/7/2025 12:26	65601	QVIL_T2	571	623	52	0.69	0.8	0.11	0	0	0	0	0	0	0	0
2/7/2025 12:26	65604	QVIL_T2	30	63	33	0.49	0.37	-0.12	0.39	0.37	0	0	0	0	0	0
2/7/2025 12:26	52501	PROG_T1	0	0	0	0	0	0	0.17	0.52	1	1	0	300	300	0
2/7/2025 12:26	65602	QVIL_T2	412	488	76	0.5	0.61	0.11	0	0	0	0	0	0	0	0
2/7/2025 12:26	65603	QVIL_T2	586	643	57	0.67	0.87	0.2	0	0	0	0	0	0	0	0
2/7/2025 12:27	65604	QVIL_T2	30	63	33	0.49	0.37	-0.12	0.39	0.37	0	0	0	0	0	0
2/7/2025 12:27	65603	QVIL_T2	586	643	57	0.67	0.87	0.2	0	0	0	0	0	0	0	0
2/7/2025 12:27	65602	QVIL_T2	412	488	76	0.5	0.61	0.11	0	0	0	0	0	0	0	0
2/7/2025 12:27	65601	QVIL_T2	571	623	52	0.69	0.8	0.11	0	0	0	0	0	0	0	0
2/7/2025 12:27	52501	PROG_T1	0	0	0	0	0	0	0.17	0.52	1	1	0	300	300	0
2/7/2025 12:28	60701	BREC_T1	40	54	14	0.27	0.28	0.01	-0.31	-0.35	1	1	0	600	600	0
2/7/2025 12:28	61703	ELIZ_T1	7	8	1	0.29	0.45	0.16	-1.79	-1.79	2	2	0	1800	1800	0
2/7/2025 12:28	61701	ELIZ_T1	2	2	0	3.5	3.45	-0.05	0	0	0	0	0	0	0	0
2/7/2025 12:28	52501	PROG_T1	0	0	0	0	0	0	0.34	1.04	2	2	0	600	600	0
2/7/2025 12:29	42701	AUGU_T1	2	5	3	0.65	0.48	-0.17	0	0	2	2	0	1800	1800	0
2/7/2025 12:29	24902	WHHA_T1	8	14	6	0.86	0.8	-0.06	0.8	0.81	0	0	0	0	0	0
2/7/2025 12:30	61701	ELIZ_T1	2	2	0	3.45	3.1	-0.35	0	0	0	0	0	0	0	0
2/7/2025 12:30	24902	WHHA_T1	7	17	10	0.73	0.58	-0.15	0.8	0.81	0	0	0	0	0	0
2/7/2025 12:30	61703	ELIZ_T1	8	7	-1	0.44	0.3	-0.14	-0.89	-0.9	1	1	0	900	900	0
2/7/2025 12:31	52404	GRPA_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
2/7/2025 12:31	52401	GRPA_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
2/7/2025 12:31	52501	PROG_T1	0	0	0	0	0	0	0.17	0.52	1	1	0	300	300	0
2/7/2025 12:31	52403	GRPA_T2	30	14	-16	0.33	0.58	0.25	-0.79	-0.77	0	0	0	0	0	0
2/7/2025 12:31	52402	GRPA_T2	16	14	-2	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
2/7/2025 12:32	61701	ELIZ_T1	2	2	0	3.45	3.1	-0.35	0	0	0	0	0	0	0	0
2/7/2025 12:32	54502	ENOL_T2	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/7/2025 12:32	54504	ENOL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/7/2025 12:32	54505	ENOL_T2	2	2	0	0.8	0.85	0.05	-1.3	-1.28	1	1	0	600	600	0
2/7/2025 12:32	61703	ELIZ_T1	8	7	-1	0.44	0.3	-0.14	-1.79	-1.79	2	2	0	1800	1800	0
2/7/2025 12:33	61701	ELIZ_T1	2	2	0	3.45	3.1	-0.35	0	0	0	0	0	0	0	0
2/7/2025 12:33	61703	ELIZ_T1	8	7	-1	0.44	0.3	-0.14	0	0	0	0	0	0	0	0
2/7/2025 12:34	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 12:36	54504	ENOL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/7/2025 12:36	58402	MORO_T1	0	1	1	0	0.1	0.1	0.06	0.03	2	2	0	1500	1500	0
2/7/2025 12:36	54502	ENOL_T2	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/7/2025 12:36	58401	MORO_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/7/2025 12:36	54505	ENOL_T2	2	2	0	0.8	0.85	0.05	-1.3	-1.28	1	1	0	600	600	0
2/7/2025 12:38	65603	QVIL_T2	643	420	-223	0.87	0.29	-0.58	0	0	0	0	0	0	0	0
2/7/2025 12:38	58401	MORO_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/7/2025 12:38	65601	QVIL_T2	623	333	-290	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
2/7/2025 12:38	58101	NEKI_T1	3	2	-1	1.07	0.25	-0.82	0	0	0	0	0	0	0	0
2/7/2025 12:38	65604	QVIL_T2	63	9	-54	0.37	0.4	0.03	0.37	0.37	0	0	0	0	0	0
2/7/2025 12:38	53601	DALM_T2	1	1	0	0.3	0.1	-0.2	-0.08	-0.15	0	0	0	0	0	0
2/7/2025 12:38	65602	QVIL_T2	488	131	-357	0.61	0.31	-0.3	0	0	0	0	0	0	0	0
2/7/2025 12:38	58102	NEKI_T1	2	2	0	1	0.8	-0.2	0.33	0.34	0	0	0	0	0	0
2/7/2025 12:38	58402	MORO_T1	0	1	1	0	0.1	0.1	0.03	0.08	2	2	0	1500	1500	0
2/7/2025 12:39	66501	SMAN_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/7/2025 12:39	66502	SMAN_T2	18	0	-18	0.31	0	-0.31	1.44	1.49	0	0	0	0	0	0
2/7/2025 12:39	65602	QVIL_T2	488	131	-357	0.61	0.31	-0.3	0	0	0	0	0	0	0	0
2/7/2025 12:39	65604	QVIL_T2	63	9	-54	0.37	0.4	0.03	0.37	0.37	0	0	0	0	0	0
2/7/2025 12:39	66505	SMAN_T2	4	3	-1	0.83	0.83	0	0	0	0	0	0	0	0	0
2/7/2025 12:39	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
2/7/2025 12:39	65603	QVIL_T2	643	420	-223	0.87	0.29	-0.58	0	0	0	0	0	0	0	0
2/7/2025 12:39	66504	SMAN_T2	12	2	-10	0.47	1	0.53	-1.29	-1.3	0	0	0	0	0	0
2/7/2025 12:39	65601	QVIL_T2	623	333	-290	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
2/7/2025 12:40	66502	SMAN_T2	18	0	-18	0.31	0	-0.31	0.72	0.74	0	0	0	0	0	0
2/7/2025 12:40	66505	SMAN_T2	4	3	-1	0.83	0.83	0	0	0	0	0	0	0	0	0
2/7/2025 12:40	67703	WERN_T2	2	1	-1	0.35	0.6	0.25	0	0	0	0	0	0	0	0
2/7/2025 12:40	67701	WERN_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/7/2025 12:40	66504	SMAN_T2	12	2	-10	0.47	1	0.53	-0.43	-0.43	0	0	0	0	0	0
2/7/2025 12:40	67702	WERN_T2	3	1	-2	0.5	1	0.5	-0.69	-0.7	0	0	0	0	0	0
2/7/2025 12:40	66501	SMAN_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/7/2025 12:41	66501	SMAN_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/7/2025 12:41	66504	SMAN_T2	12	2	-10	0.47	1	0.53	0	0	0	0	0	0	0	0
2/7/2025 12:41	45901	AUBU_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/7/2025 12:41	66505	SMAN_T2	4	3	-1	0.83	0.83	0	0	0	0	0	0	0	0	0
2/7/2025 12:41	45902	AUBU_T1	0	1	1	0	0.1	0.1	0.01	0.01	1	1	0	600	600	0
2/7/2025 12:41	66502	SMAN_T2	18	0	-18	0.31	0	-0.31	0.72	0.74	0	0	0	0	0	0
2/7/2025 12:42	66502	SMAN_T2	18	0	-18	0.31	0	-0.31	0	0	0	0	0	0	0	0
2/7/2025 12:42	66505	SMAN_T2	4	3	-1	0.83	0.83	0	0	0	0	0	0	0	0	0
2/7/2025 12:42	66504	SMAN_T2	12	2	-10	0.47	1	0.53	-0.86	-0.87	0	0	0	0	0	0
2/7/2025 12:42	66501	SMAN_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/7/2025 12:43	66504	SMAN_T2	12	2	-10	0.47	1	0.53	-0.86	-0.87	0	0	0	0	0	0
2/7/2025 12:43	66502	SMAN_T2	18	0	-18	0.31	0	-0.31	0	0	0	0	0	0	0	0
2/7/2025 12:43	66501	SMAN_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/7/2025 12:43	66505	SMAN_T2	4	3	-1	0.83	0.83	0	0	0	0	0	0	0	0	0
2/7/2025 12:43	61803	EELI_T2	1	0	-1	0.3	0	-0.3	0.94	0.88	0	0	0	0	0	0
2/7/2025 12:43	61801	EELI_T2	2	5	3	0.55	0.52	-0.03	0	0	0	0	0	0	0	0
2/7/2025 12:44	45902	AUBU_T1	0	1	1	0	0.1	0.1	0.01	0.01	1	1	0	600	600	0
2/7/2025 12:44	45901	AUBU_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/7/2025 12:47	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/7/2025 12:47	14603	SWHI_T1	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
2/7/2025 12:49	40101	HUNT_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/7/2025 12:52	66903	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 12:52	66902	SHIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 12:52	66901	SHIL_T2	1	6	5	0.6	0.38	-0.22	-1.51	-1.52	1	1	0	1200	1200	0
2/7/2025 12:54	65602	QVIL_T2	128	89	-39	0.3	0.31	0.01	0	0	0	0	0	0	0	0
2/7/2025 12:54	65603	QVIL_T2	414	368	-46	0.29	0.23	-0.06	0	0	0	0	0	0	0	0
2/7/2025 12:54	65604	QVIL_T2	9	9	0	0.4	0.31	-0.09	0	0	0	0	0	0	0	0
2/7/2025 12:54	65601	QVIL_T2	321	324	3	0.46	0.39	-0.07	0	0	0	0	0	0	0	0
2/7/2025 12:54	67402	WAKE_T2	0	1	1	0	0.2	0.2	0.54	0.53	0	0	0	0	0	0
2/7/2025 12:54	67401	WAKE_T2	15	9	-6	0.14	0.17	0.03	0	0	0	0	0	0	0	0
2/7/2025 12:55	43301	WATS_T2	0	1	1	0	0.3	0.3	0.22	0.24	0	0	0	0	0	0
2/7/2025 12:55	43304	WATS_T2	0	0	0	0	0	0	-0.8	-0.84	0	0	0	0	0	0
2/7/2025 12:57	67401	WAKE_T2	15	9	-6	0.14	0.17	0.03	-1.12	-1.1	0	0	0	0	0	0
2/7/2025 12:57	43304	WATS_T2	0	0	0	0	0	0	-0.8	-0.84	0	0	0	0	0	0
2/7/2025 12:57	67402	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 12:57	43301	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/7/2025 12:58	43304	WATS_T2	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
2/7/2025 12:58	43301	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/7/2025 12:59	44502	HAMI_T2	1	1	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
2/7/2025 12:59	44505	HAMI_T2	3	2	-1	0.2	0.2	0	-0.04	-0.01	0	0	0	0	0	0
2/7/2025 13:01	67605	WARW_T1	4	5	1	0.67	0.5	-0.17	-1.05	-1.02	0	0	0	0	0	0
2/7/2025 13:01	44505	HAMI_T2	2	2	0	0.2	0.2	0	-0.04	-0.01	0	0	0	0	0	0
2/7/2025 13:01	63501	HEID_TBK1-2	3	5	2	0.37	0.62	0.25	0.55	0.57	0	0	0	0	0	0
2/7/2025 13:01	44502	HAMI_T2	1	2	1	2.8	1.6	-1.2	0	0	0	0	0	0	0	0
2/7/2025 13:05	40101	HUNT_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/7/2025 13:06	22602	KIMB_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
2/7/2025 13:06	22601	KIMB_T1	2	2	0	0.15	0.4	0.25	0	0	0	0	0	0	0	0
2/7/2025 13:09	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 13:09	13904	SEID_T1	0	11	11	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 13:14	61801	EELI_T2	4	11	7	0.55	0.37	-0.18	0	0	0	0	0	0	0	0
2/7/2025 13:14	61802	EELI_T2	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
2/7/2025 13:14	61803	EELI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 13:17	47101	MARL_T1	2	14	12	0.7	0.21	-0.49	0	0	0	0	0	0	0	0
2/7/2025 13:17	47104	MARL_T1	0	0	0	0	0	0	-2.11	-2.17	0	0	0	0	0	0
2/7/2025 13:17	41801	GOCI_T2	27	12	-15	0.41	0.45	0.04	0	0	0	0	0	0	0	0
2/7/2025 13:18	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 13:18	45802	HEGI_T2	35	47	12	0.6	1.81	1.21	0	0	0	0	0	0	0	0
2/7/2025 13:18	64204	KINZ_T1	1	3	2	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
2/7/2025 13:19	64201	KINZ_T1	0	0	0	0	0	0	-0.13	-0.2	3	3	0	1500	1500	0
2/7/2025 13:19	64204	KINZ_T1	1	3	2	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
2/7/2025 13:19	41801	GOCI_T2	27	12	-15	0.41	0.45	0.04	0	0	0	0	0	0	0	0
2/7/2025 13:20	40101	HUNT_T2	1	5	4	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
2/7/2025 13:21	64201	KINZ_T1	0	0	0	0	0	0	-0.2	-0.2	3	3	0	1500	1500	0
2/7/2025 13:21	64204	KINZ_T1	1	3	2	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
2/7/2025 13:25	44301	BEAV_T2	1	2	1	0.2	0.5	0.3	0.9	1.04	1	1	0	600	600	0
2/7/2025 13:27	14801	TREI_T2	2	2	0	0.75	0.7	-0.05	0.46	0.46	0	0	0	0	0	0
2/7/2025 13:27	14802	TREI_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/7/2025 13:28	61801	EELI_T2	10	5	-5	0.36	0.34	-0.02	-0.28	-0.32	0	0	0	0	0	0
2/7/2025 13:28	61803	EELI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 13:28	52401	GRPA_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
2/7/2025 13:28	52404	GRPA_T2	1	2	1	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
2/7/2025 13:28	52403	GRPA_T2	16	35	19	0.76	0.56	-0.2	-0.7	-0.7	0	0	0	0	0	0
2/7/2025 13:28	52402	GRPA_T2	12	14	2	0.63	0.65	0.02	0	0	0	0	0	0	0	0
2/7/2025 13:29	61801	EELI_T2	10	5	-5	0.36	0.34	-0.02	-0.28	-0.32	0	0	0	0	0	0
2/7/2025 13:29	61803	EELI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 13:30	46801	HEPB_T2	2	2	0	0.35	0.3	-0.05	0.57	0.54	0	0	0	0	0	0
2/7/2025 13:38	67605	WARW_T1	3	3	0	0.67	0.4	-0.27	-1.02	-0.99	0	0	0	0	0	0
2/7/2025 13:39	67502	WEWI_T2	12	49	37	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
2/7/2025 13:39	67503	WEWI_T2	2	3	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/7/2025 13:40	67605	WARW_T1	3	3	0	0.67	0.4	-0.27	-1.02	-0.99	0	0	0	0	0	0
2/7/2025 13:40	59101	WALK_T2	0	2	2	0	0.3	0.3	1.52	1.2	0	0	0	0	0	0
2/7/2025 13:48	17802	GILB_T1	1	0	-1	0.2	0	-0.2	0.22	0.24	0	0	0	0	0	0
2/7/2025 13:52	44201	POIN_T1	75	92	17	0.22	0.25	0.03	-1.88	-1.86	2	2	0	2100	2100	0
2/7/2025 13:55	60201	ATGL_T2	6	7	1	0.3	0.33	0.03	0.73	0.73	0	0	0	0	0	0
2/7/2025 13:57	13806	SALI_T1	0	0	0	0	0	0	0.24	0.48	1	1	0	1200	1200	0
2/7/2025 13:57	13807	SALI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 13:57	60201	ATGL_T2	6	7	1	0.3	0.33	0.03	0.73	0.73	0	0	0	0	0	0
2/7/2025 13:58	44301	BEAV_T2	2	2	0	1.35	0.5	-0.85	0	0	0	0	0	0	0	0
2/7/2025 13:59	63801	HEMP_T1	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
2/7/2025 13:59	63804	HEMP_T1	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
2/7/2025 13:59	63802	HEMP_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
2/7/2025 13:59	63803	HEMP_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
2/7/2025 14:04	52401	GRPA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/7/2025 14:04	52403	GRPA_T2	38	82	44	0.73	0.4	-0.33	-0.71	-0.68	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/7/2025 14:04	52404	GRPA_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 14:04	52402	GRPA_T2	13	12	-1	0.71	0.59	-0.12	0	0	0	0	0	0	0	0
2/7/2025 14:07	10801	CHHI_T1	0	0	0	0	0	0	-1.61	-0.98	2	1	-1	1500	900	-600
2/7/2025 14:08	44201	POIN_T1	68	166	98	0.21	0.31	0.1	-1.86	-1.84	2	2	0	2100	2100	0
2/7/2025 14:09	10801	CHHI_T1	0	0	0	0	0	0	-1.61	-0.98	2	1	-1	1500	900	-600
2/7/2025 14:10	43301	WATS_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/7/2025 14:10	43304	WATS_T2	0	1	1	0	0.5	0.5	-0.47	-0.48	0	0	0	0	0	0
2/7/2025 14:11	43304	WATS_T2	0	1	1	0	0.5	0.5	-0.47	-0.48	0	0	0	0	0	0
2/7/2025 14:11	13905	SEID_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
2/7/2025 14:11	10801	CHHI_T1	0	0	0	0	0	0	-1.61	-0.98	2	1	-1	1500	900	-600
2/7/2025 14:11	13902	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 14:11	43301	WATS_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/7/2025 14:11	13904	SEID_T1	4	1	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/7/2025 14:12	42902	MIDD_T2	1	1	0	0.8	0.9	0.1	-0.35	-0.3	0	0	0	0	0	0
2/7/2025 14:12	42903	MIDD_T2	2	2	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
2/7/2025 14:16	45802	HEGI_T2	5	46	41	0.46	0.74	0.28	0	0	0	0	0	0	0	0
2/7/2025 14:16	45801	HEGI_T1	0	0	0	0	0	0	-0.11	-0.22	1	1	0	900	900	0
2/7/2025 14:19	45802	HEGI_T2	5	46	41	0.46	0.74	0.28	1.28	1.39	0	0	0	0	0	0
2/7/2025 14:20	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 14:20	55002	NEWP_T1	9	9	0	1.06	1.08	0.02	-0.22	-0.23	0	0	0	0	0	0
2/7/2025 14:21	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 14:21	55002	NEWP_T1	9	9	0	1.06	1.08	0.02	-0.22	-0.23	0	0	0	0	0	0
2/7/2025 14:23	13303	ORVI_T1	0	0	0	0	0	0	0.94	0.94	0	0	0	0	0	0
2/7/2025 14:24	41902	REED_T1	1	0	-1	0.3	0	-0.3	1.18	1.18	0	0	0	0	0	0
2/7/2025 14:25	14401	SSLA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/7/2025 14:25	14402	SSLA_T1	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/7/2025 14:25	14403	SSLA_T1	0	0	0	0	0	0	0.72	0.71	0	0	0	0	0	0
2/7/2025 14:26	20403	ASHF_T2	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
2/7/2025 14:26	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 14:27	10801	CHHI_T1	6	0	-6	0.27	0	-0.27	-0.98	-0.99	1	1	0	900	900	0
2/7/2025 14:30	41301	FISH_T1	2	2	0	2.4	2.05	-0.35	-0.28	-0.28	0	0	0	0	0	0
2/7/2025 14:33	41301	FISH_T1	2	2	0	2.4	2.05	-0.35	-0.28	-0.28	0	0	0	0	0	0
2/7/2025 14:34	58705	ROSE_T2	5	5	0	2.98	3	0.02	0	0	0	0	0	0	0	0
2/7/2025 14:34	58701	ROSE_T2	0	0	0	0	0	0	-0.26	-0.25	1	1	0	600	600	0
2/7/2025 14:34	43202	MVIL_T2	52	58	6	0.38	0.55	0.17	-0.65	-0.66	0	0	0	0	0	0
2/7/2025 14:34	46004	BERW_T2	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
2/7/2025 14:34	41301	FISH_T1	2	2	0	2.4	2.05	-0.35	0	0	0	0	0	0	0	0
2/7/2025 14:37	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 14:37	55002	NEWP_T1	7	9	2	1.06	1.08	0.02	-0.21	-0.22	0	0	0	0	0	0
2/7/2025 14:39	47401	PENS_T1	4	2	-2	0.53	0.2	-0.33	0.73	0.75	0	0	0	0	0	0
2/7/2025 14:39	47403	PENS_T1	1	1	0	2	2.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 14:51	41902	REED_T1	0	1	1	0	0	0	1.27	1.19	0	0	0	0	0	0
2/7/2025 14:54	44201	POIN_T1	234	234	0	0.42	0.43	0.01	-2.02	-2.02	2	2	0	2100	2100	0
2/7/2025 14:59	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 14:59	61304	EARL_T1	1	0	-1	0.2	0	-0.2	-1.02	-0.93	1	1	0	600	600	0
2/7/2025 15:00	61301	EARL_T1	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
2/7/2025 15:02	61304	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 15:05	46101	MACI_T2	0	0	0	0	0	0	0.23	0.08	1	1	0	1200	1200	0
2/7/2025 15:06	45802	HEGI_T2	47	47	0	1.6	0.96	-0.64	0.68	1.18	0	0	0	0	0	0
2/7/2025 15:16	45802	HEGI_T2	47	8	-39	0.96	0.24	-0.72	0.68	1.18	0	0	0	0	0	0
2/7/2025 15:18	67702	WERN_T2	0	0	0	0	0	0	-0.71	-0.72	0	0	0	0	0	0
2/7/2025 15:28	44301	BEAV_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
2/7/2025 15:28	63501	HEID_TBK1-2	1	1	0	1.5	0.7	-0.8	0.68	0.59	0	0	0	0	0	0
2/7/2025 15:51	10401	LIGA_T1	59	66	7	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
2/7/2025 15:53	20603	GRWO_T2	1	31	30	0.2	0.37	0.17	0.44	0.43	0	0	0	0	0	0
2/7/2025 16:11	14801	TREI_T2	0	1	1	0	0.1	0.1	0.5	0.51	0	0	0	0	0	0
2/7/2025 16:12	42501	ALTA_T2	0	0	0	0	0	0	0.02	0.07	2	2	0	1200	1200	0
2/7/2025 16:12	42504	ALTA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/7/2025 16:14	42504	ALTA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/7/2025 16:14	42501	ALTA_T2	0	0	0	0	0	0	0.01	0.04	1	1	0	600	600	0
2/7/2025 16:18	42401	GIMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 16:27	21203	ECAR_T1	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
2/7/2025 16:29	16102	BING_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
2/7/2025 16:29	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 16:31	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 16:38	45501	DERR_T2	0	0	0	0	0	0	0.16	0.18	2	2	0	1800	1800	0
2/7/2025 16:39	45501	DERR_T2	0	0	0	0	0	0	0.16	0.18	2	2	0	1800	1800	0
2/7/2025 16:39	59102	WALK_T2	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
2/7/2025 16:43	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 16:44	62103	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/7/2025 16:44	62106	ELAN_T1	5	0	-5	0.1	0	-0.1	-0.04	-0.04	0	0	0	0	0	0
2/7/2025 16:44	62105	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/7/2025 16:44	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/7/2025 16:48	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/7/2025 16:48	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 16:48	62105	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 16:48	61306	EARL_T1	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
2/7/2025 16:48	62101	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/7/2025 16:48	62102	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 16:49	42501	ALTA_T2	0	0	0	0	0	0	0.05	0.04	1	1	0	600	600	0
2/7/2025 16:49	42504	ALTA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/7/2025 16:53	59402	RFLD_T2	0	0	0	0	0	0	-0.84	-0.84	1	1	0	450	450	0
2/7/2025 17:02	64202	KINZ_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/7/2025 17:02	64204	KINZ_T1	1	1	0	1.2	0.3	-0.9	0	0	0	0	0	0	0	0
2/7/2025 17:02	64201	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/7/2025 17:02	64203	KINZ_T1	0	0	0	0	0	0	0.3	0.15	1	0	-1	600	0	-600
2/7/2025 17:04	64204	KINZ_T1	1	1	0	1.2	0.3	-0.9	0	0	0	0	0	0	0	0
2/7/2025 17:04	47101	MARL_T1	3	10	7	0.3	0.55	0.25	-2.54	-2.63	2	2	0	1200	1200	0
2/7/2025 17:04	64202	KINZ_T1	2	0	-2	0.3	0	-0.3	0.34	0.33	0	0	0	0	0	0
2/7/2025 17:04	64201	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/7/2025 17:10	42701	AUGU_T1	2	1	-1	0.15	0.2	0.05	0	0	2	2	0	1800	1800	0
2/7/2025 17:14	60801	BUCK_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/7/2025 17:14	60803	BUCK_T1	2	4	2	0.15	0.2	0.05	0	0	0	0	0	0	0	0
2/7/2025 18:25	42501	ALTA_T2	0	0	0	0	0	0	-0.01	0	1	1	0	600	600	0
2/7/2025 18:25	42503	ALTA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:13	49804	UNIV_T1	0	0	0	0	0	0	0.56	0.5	0	0	0	0	0	0
2/7/2025 19:13	49803	UNIV_T1	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:25	26402	INOR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:25	26401	INOR_T1	67	19	-48	0.55	1.32	0.77	0.69	0.7	0	0	0	0	0	0
2/7/2025 19:27	13806	SALI_T1	0	0	0	0	0	0	-0.03	-0.01	1	1	0	1200	1200	0
2/7/2025 19:27	45901	AUBU_T1	8	16	8	0.15	0.19	0.04	0	0	0	0	0	0	0	0
2/7/2025 19:27	13807	SALI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:27	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/7/2025 19:28	20403	ASHF_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
2/7/2025 19:28	66902	SHIL_T2	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
2/7/2025 19:28	20402	ASHF_T2	0	6	6	0	1.37	1.37	0	0	0	0	0	0	0	0
2/7/2025 19:28	20401	ASHF_T2	0	1	1	0	0.3	0.3	0.43	0.43	0	0	0	0	0	0
2/7/2025 19:29	43801	SWIL_T1	2	2	0	2.95	3.1	0.15	0	0	0	0	0	0	0	0
2/7/2025 19:29	15701	TANN_T1	2	2	0	2.45	2.5	0.05	0.19	0.2	0	0	0	0	0	0
2/7/2025 19:29	15704	TANN_T1	43	68	25	0.74	0.88	0.14	0	0	0	0	0	0	0	0
2/7/2025 19:29	43802	SWIL_T1	0	0	0	0	0	0	-0.15	-0.16	1	1	0	600	600	0
2/7/2025 19:29	61001	DONV_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
2/7/2025 19:29	67001	STHI_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
2/7/2025 19:29	67002	STHI_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
2/7/2025 19:30	24901	WHHA_T1	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
2/7/2025 19:30	24902	WHHA_T1	11	15	4	0.49	0.64	0.15	0	0	0	0	0	0	0	0
2/7/2025 19:31	29402	BELT_T1	2	2	0	3.75	3.5	-0.25	0	0	0	0	0	0	0	0
2/7/2025 19:31	67106	SPRI_T2	0	0	0	0	0	0	-1.24	-1.23	1	1	0	900	900	0
2/7/2025 19:31	29401	BELT_T1	6	1	-5	0.1	0.1	0	0	0	0	0	0	0	0	0
2/7/2025 19:31	55002	NEWP_T1	2	3	1	0.4	0.67	0.27	0	0	0	0	0	0	0	0
2/7/2025 19:31	45901	AUBU_T1	15	21	6	0.17	0.22	0.05	0.01	0.01	0	0	0	0	0	0
2/7/2025 19:31	46002	BERW_T2	0	0	0	0	0	0	-1.19	-1.21	1	1	0	900	900	0
2/7/2025 19:31	55001	NEWP_T1	0	0	0	0	0	0	-0.31	-0.36	0	0	0	0	0	0
2/7/2025 19:31	13807	SALI_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:31	14601	SWHI_T1	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
2/7/2025 19:31	46004	BERW_T2	2	3	1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
2/7/2025 19:31	13806	SALI_T1	0	0	0	0	0	0	-0.1	-0.03	3	3	0	3600	3600	0
2/7/2025 19:31	61801	EELI_T2	0	0	0	0	0	0	-0.93	-0.97	1	1	0	600	600	0
2/7/2025 19:31	15203	SFAR_T2	1	1	0	0.6	0.6	0	-0.55	-0.57	0	0	0	0	0	0
2/7/2025 19:32	45901	AUBU_T1	15	21	6	0.17	0.22	0.05	0	0	0	0	0	0	0	0
2/7/2025 19:32	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/7/2025 19:32	61701	ELIZ_T1	1	1	0	5.3	5.1	-0.2	-0.01	-0.05	0	0	0	0	0	0
2/7/2025 19:32	40802	EXCH_T2	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
2/7/2025 19:32	44201	POIN_T1	54	100	46	0.19	0.29	0.1	-1.97	-1.99	2	2	0	2100	2100	0
2/7/2025 19:32	67103	SPRI_T1	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
2/7/2025 19:32	66903	SHIL_T2	0	0	0	0	0	0	-1.25	-1.24	0	0	0	0	0	0
2/7/2025 19:32	67106	SPRI_T2	0	0	0	0	0	0	-2.48	-2.46	2	2	0	1800	1800	0
2/7/2025 19:32	24902	WHHA_T1	11	15	4	0.49	0.64	0.15	0.83	0.85	0	0	0	0	0	0
2/7/2025 19:33	13303	ORVI_T1	0	0	0	0	0	0	0.76	0.75	0	0	0	0	0	0
2/7/2025 19:33	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:33	65604	QVIL_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
2/7/2025 19:33	13803	SALI_T1	0	0	0	0	0	0	0.04	0.03	2	2	0	2400	2400	0
2/7/2025 19:33	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:33	27901	BCRK_T1	3	2	-1	2.47	3.8	1.33	0	0	0	0	0	0	0	0
2/7/2025 19:33	45901	AUBU_T1	15	21	6	0.17	0.22	0.05	0	0	0	0	0	0	0	0
2/7/2025 19:33	29401	BELT_T1	6	1	-5	0.1	0.1	0	0	0	1	1	0	900	900	0
2/7/2025 19:33	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/7/2025 19:33	48301	ORWI_T1	2	2	0	4.2	4.1	-0.1	0	0	0	0	0	0	0	0
2/7/2025 19:33	14601	SWHI_T1	0	0	0	0	0	0	-1.48	-1.46	0	0	0	0	0	0
2/7/2025 19:33	11104	EGYP_T1	2	6	4	0.4	0.38	-0.02	0.37	0.36	0	0	0	0	0	0
2/7/2025 19:33	10705	CATA_T2	0	0	0	0	0	0	-1.66	-1.66	2	2	0	1800	1800	0
2/7/2025 19:33	42201	SHEN_T2	0	0	0	0	0	0	-0.12	-0.15	1	1	0	600	600	0
2/7/2025 19:33	14801	TREI_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
2/7/2025 19:33	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.92	1	1	0	900	900	0
2/7/2025 19:33	13807	SALI_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:33	13904	SEID_T1	21	30	9	1.12	1.19	0.07	0	0	0	0	0	0	0	0
2/7/2025 19:33	67605	WARW_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:33	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1.02	0	0	0	0	0	0
2/7/2025 19:33	67002	STHI_T2	0	0	0	0	0	0	1.2	1.18	0	0	0	0	0	0
2/7/2025 19:33	61001	DONV_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
2/7/2025 19:33	15203	SFAR_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
2/7/2025 19:33	13905	SEID_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
2/7/2025 19:33	10805	CHHI_T2	1	1	0	8.1	8.3	0.2	-1.03	-1.05	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/7/2025 19:33	67603	WARW_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
2/7/2025 19:33	65602	QVIL_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/7/2025 19:33	44201	POIN_T1	54	100	46	0.19	0.29	0.1	-1.97	-1.99	2	2	0	2100	2100	0
2/7/2025 19:33	17802	GILB_T1	0	1	1	0	0	0	0.26	0.3	0	0	0	0	0	0
2/7/2025 19:33	29402	BELT_T1	2	2	0	3.75	3.5	-0.25	0	0	0	0	0	0	0	0
2/7/2025 19:34	48302	ORWI_T2	2	2	0	1.2	0.95	-0.25	0	0	0	0	0	0	0	0
2/7/2025 19:34	43301	WATS_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
2/7/2025 19:34	65802	RTWN_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
2/7/2025 19:34	48301	ORWI_T1	2	2	0	4.2	4.1	-0.1	0.38	0.31	0	0	0	0	0	0
2/7/2025 19:34	44203	POIN_T2	1	0	-1	0.1	0	-0.1	0.29	0.26	1	1	0	900	900	0
2/7/2025 19:34	42501	ALTA_T2	0	0	0	0	0	0	0.09	0.02	1	1	0	600	600	0
2/7/2025 19:34	53902	HALI_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
2/7/2025 19:34	40101	HUNT_T2	0	7	7	0	0.8	0.8	-1.43	-1.42	0	0	0	0	0	0
2/7/2025 19:34	54504	ENOL_T2	0	0	0	0	0	0	-1	-0.99	1	1	0	600	600	0
2/7/2025 19:34	25404	LAHA_T2	2	1	-1	1.35	0	-1.35	0	0	0	0	0	0	0	0
2/7/2025 19:34	17802	GILB_T1	0	1	1	0	0	0	0.26	0.3	0	0	0	0	0	0
2/7/2025 19:34	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:34	25402	LAHA_T2	10	10	0	0.79	0.93	0.14	-0.51	-0.54	0	0	0	0	0	0
2/7/2025 19:34	54502	ENOL_T2	0	0	0	0	0	0	-1.96	-1.96	1	1	0	600	600	0
2/7/2025 19:34	42701	AUGU_T1	1	1	0	0.3	0.5	0.2	0	0	2	2	0	1800	1800	0
2/7/2025 19:34	53901	HALI_T2	1	1	0	0.1	0.5	0.4	-2.65	-2.61	0	0	0	0	0	0
2/7/2025 19:34	67605	WARW_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:34	67002	STHI_T2	0	0	0	0	0	0	1.2	1.18	0	0	0	0	0	0
2/7/2025 19:34	60801	BUCK_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
2/7/2025 19:34	66902	SHIL_T2	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
2/7/2025 19:34	44201	POIN_T1	54	100	46	0.19	0.29	0.1	-1.97	-1.99	2	2	0	2100	2100	0
2/7/2025 19:34	67603	WARW_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
2/7/2025 19:34	60803	BUCK_T1	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
2/7/2025 19:34	53903	HALI_T2	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:34	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:35	42701	AUGU_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:35	65207	PRIN_T4	3	4	1	2.77	1.47	-1.3	0	0	0	0	0	0	0	0
2/7/2025 19:35	14801	TREI_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
2/7/2025 19:35	67103	SPRI_T1	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
2/7/2025 19:35	66505	SMAN_T2	3	3	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:35	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:35	67303	WYOM_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
2/7/2025 19:35	52502	PROG_T2	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
2/7/2025 19:35	24902	WHHA_T1	11	15	4	0.49	0.64	0.15	0.83	0.85	0	0	0	0	0	0
2/7/2025 19:35	67702	WERN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:35	60701	BREC_T1	0	0	0	0	0	0	-0.36	-0.36	1	1	0	600	600	0
2/7/2025 19:35	66901	SHIL_T2	0	0	0	0	0	0	-1.51	-1.54	1	1	0	1200	1200	0
2/7/2025 19:35	66504	SMAN_T2	0	0	0	0	0	0	-1.26	-1.35	0	0	0	0	0	0
2/7/2025 19:35	15203	SFAR_T2	1	1	0	0.6	0.6	0	-0.55	-0.57	0	0	0	0	0	0
2/7/2025 19:35	14602	SWHI_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
2/7/2025 19:35	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0.11	0.12	0	0	0	0	0	0
2/7/2025 19:35	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:35	13803	SALI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:35	14604	SWHI_T1	0	0	0	0	0	0	0.01	0	1	1	0	900	900	0
2/7/2025 19:35	48602	POCA_T1	0	0	0	0	0	0	0.23	0.12	0	0	0	0	0	0
2/7/2025 19:35	13807	SALI_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:35	48301	ORWI_T1	2	2	0	4.2	4.1	-0.1	0.76	0.62	0	0	0	0	0	0
2/7/2025 19:35	16302	ALPA_T2	0	0	0	0	0	0	-1.22	-1.28	0	0	0	0	0	0
2/7/2025 19:35	67002	STHI_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
2/7/2025 19:35	15001	BLMO_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:36	65602	QVIL_T2	1	3	2	0.1	0.1	0	0.2	0.18	0	0	0	0	0	0
2/7/2025 19:36	61306	EARL_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
2/7/2025 19:36	66902	SHIL_T2	0	0	0	0	0	0	-1.88	-1.9	0	0	0	0	0	0
2/7/2025 19:36	54203	PENN_T1	18	18	0	0.57	0.72	0.15	0	0	0	0	0	0	0	0
2/7/2025 19:36	58003	WCAR_T1	1	12	11	1.9	0.33	-1.57	0.53	0.55	0	0	0	0	0	0
2/7/2025 19:36	45501	DERR_T2	2	1	-1	0.3	0	-0.3	0.01	0	2	2	0	1800	1800	0
2/7/2025 19:36	54201	PENN_T1	3	3	0	1.3	1.5	0.2	-0.07	-0.1	0	0	0	0	0	0
2/7/2025 19:36	44502	HAMI_T2	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:36	44202	POIN_T2	0	0	0	0	0	0	-0.65	-0.61	1	1	0	1200	1200	0
2/7/2025 19:36	60803	BUCK_T1	3	1	-2	0.13	0.1	-0.03	-0.5	-0.53	1	1	0	600	600	0
2/7/2025 19:36	47401	PENS_T1	0	0	0	0	0	0	0.74	0.74	0	0	0	0	0	0
2/7/2025 19:36	41902	REED_T1	1	0	-1	0.2	0	-0.2	0.28	0.28	1	1	0	900	900	0
2/7/2025 19:36	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:36	62106	ELAN_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
2/7/2025 19:36	65604	QVIL_T2	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
2/7/2025 19:36	45901	AUBU_T1	15	21	6	0.17	0.22	0.05	0	0	0	0	0	0	0	0
2/7/2025 19:36	44203	POIN_T2	1	0	-1	0.1	0	-0.1	0.26	0.04	1	1	0	900	900	0
2/7/2025 19:36	60701	BREC_T1	0	0	0	0	0	0	-0.36	-0.35	1	1	0	600	600	0
2/7/2025 19:36	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:36	58001	WCAR_T1	4	4	0	1.33	1.65	0.32	0	0	0	0	0	0	0	0
2/7/2025 19:36	67103	SPRI_T1	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
2/7/2025 19:36	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	2	2	0	1200	1200	0
2/7/2025 19:36	66505	SMAN_T2	3	3	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:36	57401	SPAN_T1	1	2	1	0.2	0.5	0.3	-0.63	-0.66	1	1	0	600	600	0
2/7/2025 19:36	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:36	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:36	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0.12	0.13	0	0	0	0	0	0
2/7/2025 19:37	64204	KINZ_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:37	66901	SHIL_T2	0	0	0	0	0	0	-1.54	-1.54	1	1	0	1200	1200	0
2/7/2025 19:37	44202	POIN_T2	0	0	0	0	0	0	-0.65	-0.61	1	1	0	1200	1200	0
2/7/2025 19:37	14603	SWHI_T1	0	0	0	0	0	0	-0.92	-0.91	1	1	0	600	600	0
2/7/2025 19:37	66903	SHIL_T2	0	0	0	0	0	0	-2.48	-2.5	0	0	0	0	0	0
2/7/2025 19:37	57401	SPAN_T1	1	2	1	0.2	0.5	0.3	-0.66	-0.64	1	1	0	600	600	0
2/7/2025 19:37	45501	DERR_T2	2	1	-1	0.3	0	-0.3	0.01	0	2	2	0	1800	1800	0
2/7/2025 19:37	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:37	60301	TWVA_T2	0	0	0	0	0	0	-6.54	-6.62	4	4	0	3600	3600	0
2/7/2025 19:37	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:37	57403	SPAN_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
2/7/2025 19:37	10401	LIGA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:37	16302	ALPA_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
2/7/2025 19:37	44201	POIN_T1	54	100	46	0.19	0.29	0.1	-1.99	-2.01	2	2	0	2100	2100	0
2/7/2025 19:37	54203	PENN_T1	18	18	0	0.57	0.72	0.15	0.62	0.65	0	0	0	0	0	0
2/7/2025 19:37	24202	PROV_T4	0	0	0	0	0	0	-0.8	-0.8	1	1	0	1200	1200	0
2/7/2025 19:37	42601	TUSC_T1	17	18	1	0.95	0.74	-0.21	-0.33	-0.4	2	2	0	1800	1800	0
2/7/2025 19:37	44203	POIN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 19:37	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/7/2025 19:37	55002	NEWP_T1	2	3	1	0.4	0.67	0.27	-0.18	-0.21	0	0	0	0	0	0
2/7/2025 19:37	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:37	67002	STHI_T2	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
2/7/2025 19:37	64801	MONE_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
2/7/2025 19:37	64201	KINZ_T1	0	0	0	0	0	0	-0.71	-0.74	3	3	0	1500	1500	0
2/7/2025 19:37	48602	POCA_T1	0	0	0	0	0	0	0.24	0.19	0	0	0	0	0	0
2/7/2025 19:37	45901	AUBU_T1	15	21	6	0.17	0.22	0.05	0	0	0	0	0	0	0	0
2/7/2025 19:37	15001	BLMO_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:37	54201	PENN_T1	3	3	0	1.3	1.5	0.2	-0.19	-0.12	0	0	0	0	0	0
2/7/2025 19:37	14204	EALL_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
2/7/2025 19:37	60801	BUCK_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
2/7/2025 19:37	63501	HEID_T8K1-2	1	1	0	0.5	0.4	-0.1	1.15	0.92	0	0	0	0	0	0
2/7/2025 19:37	13806	SALI_T1	0	0	0	0	0	0	-0.01	-0.03	1	1	0	1200	1200	0
2/7/2025 19:37	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:37	10705	CATA_T2	0	0	0	0	0	0	-0.83	-0.84	1	1	0	900	900	0
2/7/2025 19:37	13807	SALI_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:37	42902	MIDD_T2	1	1	0	0.1	0.3	0.2	-0.58	-0.57	0	0	0	0	0	0
2/7/2025 19:37	43304	WATS_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
2/7/2025 19:37	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/7/2025 19:37	13803	SALI_T1	0	0	0	0	0	0	0.06	0.05	4	4	0	4800	4800	0
2/7/2025 19:37	44502	HAMI_T2	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:37	16102	BING_T2	0	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0
2/7/2025 19:37	57602	RUTH_T2	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
2/7/2025 19:37	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:37	58001	WCAR_T1	4	4	0	1.33	1.65	0.32	0	0	0	0	0	0	0	0
2/7/2025 19:37	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:37	14201	EALL_T1	0	0	0	0	0	0	0.56	0.6	0	0	0	0	0	0
2/7/2025 19:37	60701	BREC_T1	0	0	0	0	0	0	-0.36	-0.35	1	1	0	600	600	0
2/7/2025 19:37	61304	EARL_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	600	600	0
2/7/2025 19:37	40101	HUNT_T2	0	7	7	0	0.8	0.8	-4.26	-4.29	0	0	0	0	0	0
2/7/2025 19:37	67103	SPRI_T1	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
2/7/2025 19:37	65604	QVIL_T2	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
2/7/2025 19:37	14601	SWHI_T1	0	0	0	0	0	0	-0.73	-0.76	0	0	0	0	0	0
2/7/2025 19:37	66504	SMAN_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
2/7/2025 19:37	42201	SHEN_T2	0	0	0	0	0	0	-0.15	-0.13	1	1	0	600	600	0
2/7/2025 19:37	59101	WALK_T2	0	0	0	0	0	0	-0.42	-0.46	0	0	0	0	0	0
2/7/2025 19:37	67106	SPRI_T2	0	0	0	0	0	0	-1.23	-1.24	1	1	0	900	900	0
2/7/2025 19:37	65802	RTWN_T2	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
2/7/2025 19:37	42501	ALTA_T2	0	0	0	0	0	0	0.04	0.1	2	2	0	1200	1200	0
2/7/2025 19:37	59102	WALK_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:37	66505	SMAN_T2	3	3	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:37	60803	BUCK_T1	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
2/7/2025 19:37	24902	WHHA_T1	11	15	4	0.49	0.64	0.15	0.85	0.84	0	0	0	0	0	0
2/7/2025 19:37	58003	WCAR_T1	1	12	11	1.9	0.33	-1.57	0.55	0.54	0	0	0	0	0	0
2/7/2025 19:37	65602	QVIL_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/7/2025 19:37	67703	WERN_T2	0	0	0	0	0	0.2	-0.19	1	1	0	0	900	900	0
2/7/2025 19:38	57401	SPAN_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/7/2025 19:38	67106	SPRI_T2	0	0	0	0	0	0	-1.23	-1.24	1	1	0	900	900	0
2/7/2025 19:38	41301	FISH_T1	2	2	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
2/7/2025 19:38	57403	SPAN_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
2/7/2025 19:38	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.9	1	1	0	900	900	0
2/7/2025 19:38	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:38	60502	NMAN_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
2/7/2025 19:38	58003	WCAR_T1	1	12	11	1.9	0.33	-1.57	0.55	0.54	0	0	0	0	0	0
2/7/2025 19:38	67604	WARW_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
2/7/2025 19:38	58402	MORO_T1	16	0	-16	0.2	0	-0.2	-0.28	0.28	3	2	-1	1950	1350	-600
2/7/2025 19:38	66504	SMAN_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
2/7/2025 19:38	67605	WARW_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:38	66901	SHIL_T2	0	0	0	0	0	0	-1.54	-1.54	1	1	0	1200	1200	0
2/7/2025 19:38	61302	EARL_T1	0	0	0	0	0	0	0.12	0.1	1	1	0	1200	1200	0
2/7/2025 19:38	53501	EVIL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/7/2025 19:38	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/7/2025 19:38	42501	ALTA_T2	0	0	0	0	0	0	0.02	0.05	1	1	0	600	600	0
2/7/2025 19:38	53902	HALI_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
2/7/2025 19:38	61701	ELIZ_T1	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:38	59202	THOM_T1	6	57	51	0.17	0.22	0.05	0	0	0	0	0	0	0	0
2/7/2025 19:38	47401	PENS_T1	0	0	0	0	0	0	0.74	0.74	0	0	0	0	0	0
2/7/2025 19:38	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/7/2025 19:38	44201	POIN_T1	54	100	46	0.19	0.29	0.1	-3.98	-4.03	4	4	0	4200	4200	0
2/7/2025 19:38	53502	EVIL_T2	0	1	1	0	0.1	0.1	0.68	0.66	0	0	0	0	0	0
2/7/2025 19:38	24102	EHAZ_T1	7	7	0	0.57	0.53	-0.04	-0.29	-0.32	0	0	0	0	0	0
2/7/2025 19:38	57201	ROSS_T1	14	12	-2	0.2	0.19	-0.01	-0.69	-0.56	0	0	0	0	0	0
2/7/2025 19:38	48302	ORWI_T2	2	2	0	1.2	0.95	-0.25	0.03	0.02	0	0	0	0	0	0
2/7/2025 19:38	46101	MACI_T2	0	0	0	0	0	0	-0.4	-0.41	1	1	0	1200	1200	0
2/7/2025 19:38	42701	AUGU_T1	1	1	0	0.3	0.5	0.2	0	0	2	2	0	1800	1800	0
2/7/2025 19:38	53901	HALI_T2	1	1	0	0.1	0.5	0.4	-1.3	-1.36	0	0	0	0	0	0
2/7/2025 19:38	24103	EHAZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:38	24105	EHAZ_T1	12	12	0	2.33	3.4	1.07	0	0	0	0	0	0	0	0
2/7/2025 19:38	61801	EELI_T2	0	0	0	0	0	0	-0.97	-0.96	1	1	0	600	600	0
2/7/2025 19:38	60701	BREC_T1	0	0	0	0	0	0	-0.36	-0.35	1	1	0	600	600	0
2/7/2025 19:38	60501	NMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 19:38	44502	HAMI_T2	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:38	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:38	61703	ELIZ_T1	0	0	0	0	0	0	-0.66	-0.86	1	1	0	900	900	0
2/7/2025 19:38	46004	BERW_T2	2	3	1	0.4	0.1	-0.3	-0.7	-0.72	0	0	0	0	0	0
2/7/2025 19:38	42902	MIDD_T2	1	1	0	0.1	0.3	0.2	-0.58	-0.57	0	0	0	0	0	0
2/7/2025 19:38	24101	EHAZ_T1	40	48	8	2.3	2.21	-0.09	0	0	0	0	0	0	0	0
2/7/2025 19:38	53602	DALM_T2	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
2/7/2025 19:38	65001	NEFF_T2	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
2/7/2025 19:38	59201	THOM_T1	5	17	12	0.18	0.28	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:38	53903	HALI_T2	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:38	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:38	65604	QVIL_T2	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
2/7/2025 19:38	53601	DALM_T2	0	5	5	0	0	0	-0.1	-0.08	0	0	0	0	0	0
2/7/2025 19:38	58001	WCAR_T1	4	4	0	1.33	1.65	0.32	0	0	0	0	0	0	0	0
2/7/2025 19:38	42401	GIMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:38	65602	QVIL_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/7/2025 19:38	66505	SMAN_T2	3	3	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:38	60803	BUCK_T1	3	1	-2	0.13	0.1	-0.03	-0.5	-0.53	1	1	0	600	600	0
2/7/2025 19:38	67002	STHI_T2	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
2/7/2025 19:38	65603	QVIL_T2	0	0	0	0	0	0	0.08	0.05	0	0	0	0	0	0
2/7/2025 19:38	43304	WATS_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/7/2025 19:38	66903	SHIL_T2	0	0	0	0	0	0	-1.24	-1.25	0	0	0	0	0	0
2/7/2025 19:39	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:39	64204	KINZ_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:39	24801	VALM_T1	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
2/7/2025 19:39	44203	POIN_T2	1	0	-1	0.1	0	-0.1	0.26	0.04	1	1	0	900	900	0
2/7/2025 19:39	62102	ELAN_T1	0	0	0	0	0	0	0.7	0.74	0	0	0	0	0	0
2/7/2025 19:39	14601	SWHI_T1	0	0	0	0	0	0	-2.19	-2.28	0	0	0	0	0	0
2/7/2025 19:39	67702	WERN_T2	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
2/7/2025 19:39	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:39	14402	SSLA_T1	2	0	-2	0.75	0	-0.75	0	0	0	0	0	0	0	0
2/7/2025 19:39	54601	SUMM_T2	0	0	0	0	0	0	-1.74	-1.76	2	2	0	2100	2100	0
2/7/2025 19:39	14602	SWHI_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
2/7/2025 19:39	42801	SELI_T1	0	0	0	0	0	0	-1.46	-1.46	1	1	0	1200	1200	0
2/7/2025 19:39	67903	WNHO_T1	0	0	0	0	0	0	1.2	1.16	1	1	0	1200	1200	0
2/7/2025 19:39	65604	QVIL_T2	0	0	0	0	0	0	0.86	0.9	0	0	0	0	0	0
2/7/2025 19:39	67002	STHI_T2	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
2/7/2025 19:39	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:39	53901	HALI_T2	1	1	0	0.1	0.5	0.4	-2.61	-2.72	0	0	0	0	0	0
2/7/2025 19:39	43304	WATS_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/7/2025 19:39	53903	HALI_T2	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:39	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
2/7/2025 19:39	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:39	53902	HALI_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
2/7/2025 19:39	57401	SPAN_T1	1	2	1	0.2	0.5	0.3	-0.66	-0.64	1	1	0	600	600	0
2/7/2025 19:39	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:39	15203	SFAR_T2	1	1	0	0.6	0.6	0	-0.57	-0.58	0	0	0	0	0	0
2/7/2025 19:39	41902	REED_T1	1	0	-1	0.2	0	-0.2	0.28	0.28	1	1	0	900	900	0
2/7/2025 19:39	44202	POIN_T2	0	0	0	0	0	0	-0.65	-0.61	1	1	0	1200	1200	0
2/7/2025 19:39	14603	SWHI_T1	0	0	0	0	0	0	-1.84	-1.82	2	2	0	1200	1200	0
2/7/2025 19:39	16302	ALPA_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
2/7/2025 19:39	67605	WARW_T1	1	1	0	0.8	0.6	-0.2	-1.08	-1.13	0	0	0	0	0	0
2/7/2025 19:39	61703	ELIZ_T1	0	0	0	0	0	0	-0.66	-0.86	1	1	0	900	900	0
2/7/2025 19:39	64203	KINZ_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
2/7/2025 19:39	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/7/2025 19:39	44201	POIN_T1	54	100	46	0.19	0.29	0.1	-3.98	-4.03	4	4	0	4200	4200	0
2/7/2025 19:39	42802	SELI_T1	0	0	0	0	0	0	-1.38	-1.37	1	1	0	900	900	0
2/7/2025 19:39	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:39	64201	KINZ_T1	0	0	0	0	0	0	-0.71	-0.74	3	3	0	1500	1500	0
2/7/2025 19:39	62105	ELAN_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
2/7/2025 19:39	45901	AUBU_T1	15	21	6	0.17	0.22	0.05	0	0	0	0	0	0	0	0
2/7/2025 19:39	10705	CATA_T2	0	0	0	0	0	0	-1.66	-1.68	2	2	0	1800	1800	0
2/7/2025 19:39	11104	EGYP_T1	2	6	4	0.4	0.38	-0.02	0.72	0.75	0	0	0	0	0	0
2/7/2025 19:39	46004	BERW_T2	2	3	1	0.4	0.1	-0.3	-0.7	-0.72	0	0	0	0	0	0
2/7/2025 19:39	54202	PENN_T2	0	0	0	0	0	0	0.57	0.6	0	0	0	0	0	0
2/7/2025 19:39	60803	BUCK_T1	3	1	-2	0.13	0.1	-0.03	-0.5	-0.53	1	1	0	600	600	0
2/7/2025 19:39	65602	QVIL_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/7/2025 19:39	66505	SMAN_T2	3	3	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:39	61701	ELIZ_T1	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:39	14403	SSLA_T1	0	0	0	0	0	0	0.84	0.81	0	0	0	0	0	0
2/7/2025 19:40	60803	BUCK_T1	3	1	-2	0.13	0.1	-0.03	-0.5	-0.53	1	1	0	600	600	0
2/7/2025 19:40	44201	POIN_T1	54	100	46	0.19	0.29	0.1	-1.99	-2.01	2	2	0	2100	2100	0
2/7/2025 19:40	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:40	54603	SUMM_T2	0	0	0	0	0	0	-0.41	-0.31	1	1	0	900	900	0
2/7/2025 19:40	46802	HEPB_T1	1	1	0	1	1.1	0.1	-1.19	-1.2	0	0	0	0	0	0
2/7/2025 19:40	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:40	57403	SPAN_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
2/7/2025 19:40	53902	HALI_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
2/7/2025 19:40	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:40	53901	HALI_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/7/2025 19:40	57502	LAWN_T3	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
2/7/2025 19:40	61301	EARL_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
2/7/2025 19:40	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/7/2025 19:40	46002	BERW_T2	0	0	0	0	0	0	-1.21	-1.17	1	1	0	900	900	0
2/7/2025 19:40	65601	QVIL_T2	0	0	0	0	0	0	-0.14	-0.01	0	0	0	0	0	0
2/7/2025 19:40	58402	MORO_T1	16	0	-16	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:40	42201	SHEN_T2	0	0	0	0	0	0	-0.15	-0.13	1	1	0	600	600	0
2/7/2025 19:40	53903	HALI_T2	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:40	60501	NMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 19:40	24101	EHAZ_T1	40	48	8	2.3	2.21	-0.09	0	0	0	0	0	0	0	0
2/7/2025 19:40	67605	WARW_T1	1	1	0	0.8	0.6	-0.2	-1.08	-1.13	0	0	0	0	0	0
2/7/2025 19:40	65602	QVIL_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/7/2025 19:40	24102	EHAZ_T1	7	7	0	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
2/7/2025 19:40	57602	RUTH_T2	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
2/7/2025 19:40	24103	EHAZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:40	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:40	66505	SMAN_T2	3	3	0	1.1	0.9	-0.2	-0.59	-0.52	1	1	0	900	900	0
2/7/2025 19:40	48301	ORWI_T1	2	2	0	4.2	4.1	-0.1	0.31	0.33	0	0	0	0	0	0
2/7/2025 19:40	65802	RTWN_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
2/7/2025 19:40	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:40	55002	NEWP_T1	2	3	1	0.4	0.67	0.27	-0.36	-0.42	0	0	0	0	0	0
2/7/2025 19:40	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:40	54505	ENOL_T2	0	0	0	0	0	0	-1.18	-1.2	1	1	0	600	600	0
2/7/2025 19:40	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
2/7/2025 19:40	44502	HAMI_T2	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:40	60701	BREC_T1	0	0	0	0	0	0	-0.71	-0.71	2	2	0	1200	1200	0
2/7/2025 19:40	63802	HEMP_T1	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
2/7/2025 19:40	63501	HEID_TBK1-2	1	1	0	0.5	0.4	-0.1	0.58	0.46	0	0	0	0	0	0
2/7/2025 19:40	58006	WCAR_T2	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
2/7/2025 19:40	62105	ELAN_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
2/7/2025 19:40	58401	MORO_T1	0	0	0	0	0	0	-1.04	-1.08	1	1	0	600	600	0
2/7/2025 19:40	41002	LAUR_T2	13	19	6	0.23	0.28	0.05	0	0	0	0	0	0	0	0
2/7/2025 19:40	24104	EHAZ_T1	0	0	0	0	0	0	-0.87	-0.88	1	1	0	1200	1200	0
2/7/2025 19:40	63804	HEMP_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:40	24105	EHAZ_T1	12	12	0	2.33	3.4	1.07	0	0	0	0	0	0	0	0
2/7/2025 19:40	46004	BERW_T2	2	3	1	0.4	0.1	-0.3	-0.7	-0.72	0	0	0	0	0	0
2/7/2025 19:40	57401	SPAN_T1	1	2	1	0.2	0.5	0.3	-0.66	-0.64	1	1	0	600	600	0
2/7/2025 19:40	47101	MARL_T1	26	37	11	1.13	0.73	-0.4	0	0	0	0	0	0	0	0
2/7/2025 19:40	22602	KIMB_T1	0	0	0	0	0	0	0.24	0.14	0	0	0	0	0	0
2/7/2025 19:40	47104	MARL_T1	0	0	0	0	0	0	-2.22	-2.19	0	0	0	0	0	0
2/7/2025 19:40	41001	LAUR_T2	28	50	22	0.14	0.19	0.05	0	0	0	0	0	0	0	0
2/7/2025 19:40	44301	BEAV_T2	2	6	4	0.3	0.35	0.05	-0.1	-0.13	1	1	0	600	600	0
2/7/2025 19:40	44801	EDAN_T2	1	1	0	0.8	0.4	-0.4	-0.8	-0.78	0	0	0	0	0	0
2/7/2025 19:41	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:41	64801	MONE_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
2/7/2025 19:41	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:41	60803	BUCK_T1	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
2/7/2025 19:41	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:41	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:41	44201	POIN_T1	54	100	46	0.19	0.29	0.1	-1.99	-2.01	2	2	0	2100	2100	0
2/7/2025 19:41	27605	PIRI_T2	0	0	0	0	0	0	-2.01	-2.03	1	1	0	900	900	0
2/7/2025 19:41	13105	NHAM_T2	7	15	8	0.4	0.4	0	0	0	0	0	0	0	0	0
2/7/2025 19:41	64204	KINZ_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:41	53101	WTWN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:41	59002	MIFF_T1	4	2	-2	0.28	0.3	0.02	0	0	0	0	0	0	0	0
2/7/2025 19:41	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
2/7/2025 19:41	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:41	46506	LOHA_T1	3	3	0	2.2	2.17	-0.03	-0.1	-0.09	0	0	0	0	0	0
2/7/2025 19:41	44203	POIN_T2	1	0	-1	0.1	0	-0.1	0.26	0.04	1	1	0	900	900	0
2/7/2025 19:41	59003	MIFF_T1	1	1	0	0.7	0.5	-0.2	-0.03	-0.28	0	0	0	0	0	0
2/7/2025 19:41	10805	CHHI_T2	1	1	0	8.1	8.3	0.2	-1.05	-0.91	1	1	0	600	600	0
2/7/2025 19:41	66903	SHIL_T2	0	0	0	0	0	0	-1.24	-1.25	0	0	0	0	0	0
2/7/2025 19:41	66504	SMAN_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
2/7/2025 19:41	42201	SHEN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/7/2025 19:41	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:41	60801	BUCK_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
2/7/2025 19:41	14601	SWHI_T1	0	0	0	0	0	0	-1.46	-1.52	0	0	0	0	0	0
2/7/2025 19:41	62105	ELAN_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
2/7/2025 19:41	60701	BREC_T1	0	0	0	0	0	0	-0.36	-0.35	1	1	0	600	600	0
2/7/2025 19:41	43202	MVIL_T2	1	1	0	0.9	0.2	-0.7	-0.59	-0.62	0	0	0	0	0	0
2/7/2025 19:41	13807	SALI_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:41	57401	SPAN_T1	1	2	1	0.2	0.5	0.3	-1.32	-1.28	2	2	0	1200	1200	0
2/7/2025 19:41	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:41	54206	PENN_T2	0	0	0	0	0	0	-0.05	-0.08	0	0	0	0	0	0
2/7/2025 19:41	15203	SFAR_T2	1	1	0	0.6	0.6	0	-0.57	-0.58	0	0	0	0	0	0
2/7/2025 19:41	67605	WARW_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:41	67002	STHI_T2	0	0	0	0	0	0	1.18	1.23	0	0	0	0	0	0
2/7/2025 19:41	60201	ATGL_T2	37	33	-4	0.18	0.14	-0.04	-0.07	-0.15	0	0	0	0	0	0
2/7/2025 19:41	12006	HATF_T1	2	2	0	1.2	1.5	0.3	0.01	0.03	1	1	0	1200	1200	0
2/7/2025 19:41	14605	SWHI_T1	0	0	0	0	0	0	1.03	1.08	1	1	0	1200	1200	0
2/7/2025 19:41	41902	REED_T1	1	0	-1	0.2	0	-0.2	0.56	0.56	2	2	0	1800	1800	0
2/7/2025 19:41	14802	TREI_T2	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
2/7/2025 19:41	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:41	48602	POCA_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
2/7/2025 19:41	44202	POIN_T2	0	0	0	0	0	0	-0.65	-0.61	1	1	0	1200	1200	0
2/7/2025 19:41	43304	WATS_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/7/2025 19:41	12001	HATF_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/7/2025 19:41	66505	SMAN_T2	3	3	0	1.1	0.9	-0.2	-0.59	-0.52	1	1	0	900	900	0
2/7/2025 19:41	10705	CATA_T2	0	0	0	0	0	0	-0.83	-0.84	1	1	0	900	900	0
2/7/2025 19:41	61001	DONV_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
2/7/2025 19:41	42802	EXCH_T2	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
2/7/2025 19:41	13806	SALI_T1	0	0	0	0	0	0	-0.01	-0.03	1	1	0	1200	1200	0
2/7/2025 19:41	43801	SWIL_T1	2	2	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:41	61502	EPET_T1	0	0	0	0	0	0	-1.15	-1.19	0	0	0	0	0	0
2/7/2025 19:41	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:41	67603	WARW_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
2/7/2025 19:41	45802	HEGI_T2	18	41	23	0.41	0.52	0.11	0	0	0	0	0	0	0	0
2/7/2025 19:41	13103	NHAM_T2	0	0	0	0	0	0	-1.64	-1.61	1	1	0	600	600	0
2/7/2025 19:41	46501	LOHA_T1	0	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0
2/7/2025 19:41	51702	OBER_T1	2	2	0	1.95	2.05	0.1	-0.3	-0.29	0	0	0	0	0	0
2/7/2025 19:41	53102	WTWN_T1	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
2/7/2025 19:41	55002	NEWP_T1	2	3	1	0.4	0.67	0.27	-0.18	-0.21	0	0	0	0	0	0
2/7/2025 19:41	54505	ENOL_T2	0	0	0	0	0	0	-2.37	-2.41	2	2	0	1200	1200	0
2/7/2025 19:41	57602	RUTH_T2	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
2/7/2025 19:41	61304	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:41	58202	NEWV_T1	0	0	0	0	0	0	-0.03	-0.14	0	0	0	0	0	0
2/7/2025 19:42	58001	WCAR_T1	4	4	0	1.33	1.65	0.32	0	0	0	0	0	0	0	0
2/7/2025 19:42	61701	ELIZ_T1	1	1	0	5.3	5.1	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:42	54601	SUMM_T2	0	0	0	0	0	0	-1.74	-1.76	2	2	0	2100	2100	0
2/7/2025 19:42	64202	KINZ_T1	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
2/7/2025 19:42	67106	SPRI_T2	0	0	0	0	0	0	-1.23	-1.24	1	1	0	900	900	0
2/7/2025 19:42	61703	ELIZ_T1	0	0	0	0	0	0	-0.66	-0.86	1	1	0	900	900	0
2/7/2025 19:42	66902	SHIL_T2	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
2/7/2025 19:42	22602	KIMB_T1	0	0	0	0	0	0	0.24	0.14	0	0	0	0	0	0
2/7/2025 19:42	52402	GRPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:42	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:42	61304	EARL_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	600	600	0
2/7/2025 19:42	52502	PROG_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
2/7/2025 19:42	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:42	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:42	60803	BUCK_T1	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
2/7/2025 19:42	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:42	57401	SPAN_T1	1	2	1	0.2	0.5	0.3	-0.66	-0.64	1	1	0	600	600	0
2/7/2025 19:42	43304	WATS_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
2/7/2025 19:42	52501	PROG_T1	0	0	0	0	0	0	0.52	0.54	1	1	0	300	300	0
2/7/2025 19:42	20402	ASHF_T2	6	6	0	1.37	1.02	-0.35	0	0	0	0	0	0	0	0
2/7/2025 19:42	57403	SPAN_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
2/7/2025 19:42	67901	WNHO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:42	20403	ASHF_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/7/2025 19:42	52403	GRPA_T2	2	2	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:42	60701	BREC_T1	0	0	0	0	0	0	-0.71	-0.71	2	2	0	1200	1200	0
2/7/2025 19:42	65207	PRIN_T4	3	4	1	2.77	1.47	-1.3	0	0	0	0	0	0	0	0
2/7/2025 19:42	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:42	46004	BERW_T2	2	3	1	0.4	0.1	-0.3	-0.7	-0.72	0	0	0	0	0	0
2/7/2025 19:42	55002	NEWP_T1	2	3	1	0.4	0.67	0.27	-0.18	-0.21	0	0	0	0	0	0
2/7/2025 19:42	42201	SHEN_T2	0	0	0	0	0	0	-0.15	-0.13	1	1	0	600	600	0
2/7/2025 19:42	67605	WARW_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:42	22601	KIMB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:42	65206	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:42	42902	MIDD_T2	1	1	0	0.1	0.3	0.2	-1.17	-1.15	0	0	0	0	0	0
2/7/2025 19:42	67201	TEHI_T1	0	0	0	0	0	0	-0.32	-0.44	1	1	0	900	900	0
2/7/2025 19:42	58003	WCAR_T1	1	12	11	1.9	0.33	-1.57	0.55	0.54	0	0	0	0	0	0
2/7/2025 19:42	54201	PENN_T1	3	3	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:42	63501	HEID_TBK1-2	1	1	0	0.5	0.4	-0.1	0.58	0.46	0	0	0	0	0	0
2/7/2025 19:42	64204	KINZ_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:42	48602	POCA_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
2/7/2025 19:42	67603	WARW_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
2/7/2025 19:42	60801	BUCK_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
2/7/2025 19:42	54203	PENN_T1	18	18	0	0.57	0.72	0.15	0.62	0.65	0	0	0	0	0	0
2/7/2025 19:42	20401	ASHF_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/7/2025 19:42	67604	WARW_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
2/7/2025 19:42	40701	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:42	41301	FISH_T1	2	2	0	0.7	1.1	0.4	-0.23	-0.22	0	0	0	0	0	0
2/7/2025 19:42	62106	ELAN_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
2/7/2025 19:42	57404	SPAN_T2	0	0	0	0	0	0	-0.15	-0.12	1	1	0	1200	1200	0
2/7/2025 19:42	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0.12	0.13	0	0	0	0	0	0
2/7/2025 19:42	54202	PENN_T2	0	0	0	0	0	0	0.57	0.6	0	0	0	0	0	0
2/7/2025 19:42	52401	GRPA_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:43	52401	GRPA_T2	1	1	0	0.2	0	-0.2	-0.61	-0.64	0	0	0	0	0	0
2/7/2025 19:43	65601	QVIL_T2	0	0	0	0	0	0	-0.14	-0.01	0	0	0	0	0	0
2/7/2025 19:43	61301	EARL_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
2/7/2025 19:43	44301	BEAV_T2	2	6	4	0.3	0.35	0.05	-0.1	-0.13	1	1	0	600	600	0
2/7/2025 19:43	14603	SWHI_T1	0	0	0	0	0	0	-1.84	-1.82	2	2	0	1200	1200	0
2/7/2025 19:43	58102	NEKI_T1	1	1	0	0.7	0.9	0.2	0.21	0.31	0	0	0	0	0	0
2/7/2025 19:43	13806	SALI_T1	0	0	0	0	0	0	-0.01	-0.03	1	1	0	1200	1200	0
2/7/2025 19:43	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:43	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:43	67002	STHI_T2	0	0	0	0	0	0	1.18	1.23	0	0	0	0	0	0
2/7/2025 19:43	57602	RUTH_T2	0	0	0	0	0	0	0.4	0.51	0	0	0	0	0	0
2/7/2025 19:43	53601	DALM_T2	0	5	5	0	0	0	-0.1	-0.08	0	0	0	0	0	0
2/7/2025 19:43	10705	CATA_T2	0	0	0	0	0	0	-1.66	-1.68	2	2	0	1800	1800	0
2/7/2025 19:43	58402	MORO_T1	16	0	-16	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:43	65802	RTWN_T2	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
2/7/2025 19:43	66901	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:43	47901	HRDG_T1	0	0	0	0	0	0	1.63	1.39	0	0	0	0	0	0
2/7/2025 19:43	60701	BREC_T1	0	0	0	0	0	0	-0.71	-0.71	2	2	0	1200	1200	0
2/7/2025 19:43	46801	HEPB_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
2/7/2025 19:43	44201	POIN_T1	54	100	46	0.19	0.29	0.1	-5.96	-6.04	6	6	0	6300	6300	0
2/7/2025 19:43	13807	SALI_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:43	57401	SPAN_T1	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/7/2025 19:43	52402	GRPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:43	43304	WATS_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/7/2025 19:43	46803	HEPB_T2	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
2/7/2025 19:43	60201	ATGL_T2	37	33	-4	0.18	0.14	-0.04	-0.07	-0.15	0	0	0	0	0	0
2/7/2025 19:43	67605	WARW_T1	1	1	0	0.8	0.6	-0.2	-1.08	-1.13	0	0	0	0	0	0
2/7/2025 19:43	42902	MIDD_T2	1	1	0	0.1	0.3	0.2	-1.17	-1.15	0	0	0	0	0	0
2/7/2025 19:43	14601	SWHI_T1	0	0	0	0	0	0	-0.73	-0.76	0	0	0	0	0	0
2/7/2025 19:43	44203	POIN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 19:43	50834	WALN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:43	42701	AUGU_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:43	66505	SMAN_T2	3	3	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:43	67001	STHI_T2	1	1	0	0.5	0.7	0.2	0.12	0.13	0	0	0	0	0	0
2/7/2025 19:43	43202	MVIL_T2	1	1	0	0.9	0.2	-0.7	-0.59	-0.62	0	0	0	0	0	0
2/7/2025 19:43	66504	SMAN_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
2/7/2025 19:43	52403	GRPA_T2	2	2	0	1.2	1.4	0.2	-0.45	-0.47	0	0	0	0	0	0
2/7/2025 19:43	52501	PROG_T1	0	0	0	0	0	0	0.52	0.54	1	1	0	300	300	0
2/7/2025 19:43	57403	SPAN_T1	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
2/7/2025 19:43	51702	OBER_T1	2	2	0	1.95	2.05	0.1	-0.3	-0.29	0	0	0	0	0	0
2/7/2025 19:43	66902	SHIL_T2	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
2/7/2025 19:43	61803	EELI_T2	0	0	0	0	0	0	0.73	0.76	0	0	0	0	0	0
2/7/2025 19:43	65602	QVIL_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/7/2025 19:43	63501	HEID_TBK1-2	1	1	0	0.5	0.4	-0.1	1.15	0.92	0	0	0	0	0	0
2/7/2025 19:43	58006	WCAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:43	42601	TUSC_T1	17	18	1	0.95	0.74	-0.21	-0.33	-0.4	2	2	0	1800	1800	0
2/7/2025 19:43	44202	POIN_T2	0	0	0	0	0	0	-0.65	-0.61	1	1	0	1200	1200	0
2/7/2025 19:43	64802	MONE_T2	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
2/7/2025 19:43	66903	SHIL_T2	0	0	0	0	0	0	-1.24	-1.25	0	0	0	0	0	0
2/7/2025 19:43	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:43	58401	MORO_T1	0	0	0	0	0	0	-1.04	-1.08	1	1	0	600	600	0
2/7/2025 19:44	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
2/7/2025 19:44	54505	ENOL_T2	0	0	0	0	0	0	-1.18	-1.2	1	1	0	600	600	0
2/7/2025 19:44	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:44	53102	WTWN_T1	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
2/7/2025 19:44	44201	POIN_T1	54	100	46	0.19	0.29	0.1	-1.99	-2.01	2	2	0	2100	2100	0
2/7/2025 19:44	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
2/7/2025 19:44	65602	QVIL_T2	1	3	2	0.1	0.1	0	0.2	0.18	0	0	0	0	0	0
2/7/2025 19:44	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:44	57201	ROSS_T1	14	12	-2	0.2	0.19	-0.01	-2.08	-1.67	0	0	0	0	0	0
2/7/2025 19:44	58705	ROSE_T2	5	5	0	3.2	3.26	0.06	0	0	0	0	0	0	0	0
2/7/2025 19:44	66505	SMAN_T2	3	3	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:44	65604	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:44	53902	HALI_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
2/7/2025 19:44	61001	DONV_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
2/7/2025 19:44	53901	HALI_T2	1	1	0	0.1	0.5	0.4	-1.3	-1.36	0	0	0	0	0	0
2/7/2025 19:44	62105	ELAN_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
2/7/2025 19:44	66903	SHIL_T2	0	0	0	0	0	0	-1.24	-1.25	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/7/2025 19:44	60803	BUCK_T1	3	1	-2	0.13	0.1	-0.03	-0.5	-0.53	1	1	0	600	600	0
2/7/2025 19:44	45802	HEGI_T2	18	41	23	0.41	0.52	0.11	0.95	1.04	0	0	0	0	0	0
2/7/2025 19:44	60501	NMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/7/2025 19:44	44502	HAMI_T2	1	1	0	2.9	3	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:44	54502	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:44	53101	WTWN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:44	58701	ROSE_T2	0	0	0	0	0	0	-0.25	-0.26	1	1	0	600	600	0
2/7/2025 19:44	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:44	40101	HUNT_T2	0	7	7	0	0.8	0.8	-1.42	-1.43	0	0	0	0	0	0
2/7/2025 19:44	43304	WATS_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/7/2025 19:44	43801	SWIL_T1	2	2	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:44	43802	SWIL_T1	0	1	0	0	0	0	-0.16	-0.14	1	1	0	600	600	0
2/7/2025 19:44	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/7/2025 19:44	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:44	57401	SPAN_T1	1	2	1	0.2	0.5	0.3	-1.97	-1.92	3	3	0	1800	1800	0
2/7/2025 19:44	67605	WARW_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:44	54504	ENOL_T2	0	0	0	0	0	0	-0.99	-1.02	1	1	0	600	600	0
2/7/2025 19:44	53601	DALM_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:44	57602	RUTH_T2	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
2/7/2025 19:44	61802	EELI_T2	0	0	0	0	0	0	-0.27	-0.26	0	0	0	0	0	0
2/7/2025 19:44	53602	DALM_T2	0	0	0	0	0	0	-0.52	-0.52	1	1	0	600	600	0
2/7/2025 19:44	67304	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:44	42201	SHEN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:44	65603	QVIL_T2	0	0	0	0	0	0	0.16	0.1	0	0	0	0	0	0
2/7/2025 19:44	53903	HALI_T2	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:44	67402	WAKE_T2	0	0	0	0	0	0	-0.35	-0.35	1	1	0	600	600	0
2/7/2025 19:45	41301	FISH_T1	2	2	0	0.8	1.1	0.3	-0.23	-0.22	0	0	0	0	0	0
2/7/2025 19:45	58001	WCAR_T1	4	5	1	1.38	1.34	-0.04	0	0	0	0	0	0	0	0
2/7/2025 19:45	53502	EVIL_T2	1	1	0	0.7	0.1	-0.6	0.68	0.66	0	0	0	0	0	0
2/7/2025 19:45	66504	SMAN_T2	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
2/7/2025 19:45	46506	LOHA_T1	3	3	0	1.9	2.23	0.33	-0.1	-0.09	0	0	0	0	0	0
2/7/2025 19:45	16102	BING_T2	0	1	1	0	3.7	3.7	0	0	0	0	0	0	0	0
2/7/2025 19:45	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
2/7/2025 19:45	58003	WCAR_T1	2	22	20	1.05	0.29	-0.76	0.55	0.54	0	0	0	0	0	0
2/7/2025 19:45	47203	FAXO_T2	1	1	0	3	3.2	0.2	-0.37	-0.38	0	0	0	0	0	0
2/7/2025 19:45	62102	ELAN_T1	0	0	0	0	0	0	0.7	0.74	0	0	0	0	0	0
2/7/2025 19:45	58401	MORO_T1	0	0	0	0	0	0	-1.04	-1.08	1	1	0	600	600	0
2/7/2025 19:45	67402	WAKE_T2	0	0	0	0	0	0	-0.35	-0.35	1	1	0	600	600	0
2/7/2025 19:45	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:45	42801	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:45	57205	ROSS_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
2/7/2025 19:45	61703	ELIZ_T1	0	0	0	0	0	0	-0.66	-0.86	1	1	0	900	900	0
2/7/2025 19:45	57201	ROSS_T1	12	13	1	0.19	0.16	-0.03	0	0	0	0	0	0	0	0
2/7/2025 19:45	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:45	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:45	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:45	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:45	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:45	66505	SMAN_T2	3	3	0	0.67	1.07	0.4	0	0	0	0	0	0	0	0
2/7/2025 19:45	44201	POIN_T1	71	115	44	0.25	0.32	0.07	0	0	0	0	0	0	0	0
2/7/2025 19:45	61701	ELIZ_T1	1	1	0	5	5.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:45	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:45	14603	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:45	58202	NEWV_T1	0	0	0	0	0	0	-0.02	-0.07	0	0	0	0	0	0
2/7/2025 19:45	48301	ORWI_T1	2	2	0	4.1	4	-0.1	0.31	0.33	0	0	0	0	0	0
2/7/2025 19:45	60701	BREC_T1	0	0	0	0	0	0	-0.36	-0.35	1	1	0	600	600	0
2/7/2025 19:45	17001	RIRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:45	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:45	42902	MIDD_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/7/2025 19:45	46501	LOHA_T1	3	2	-1	0.77	0.55	-0.22	0	0	0	0	0	0	0	0
2/7/2025 19:45	15001	BLMO_T1	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
2/7/2025 19:45	59402	RFLD_T2	0	0	0	0	0	0	-0.87	-0.87	1	1	0	450	450	0
2/7/2025 19:45	47202	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:45	44203	POIN_T2	0	0	0	0	0	0	0.26	0.04	1	1	0	900	900	0
2/7/2025 19:45	53501	EVIL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/7/2025 19:45	41801	GOCJ_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:45	61304	EARL_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	600	600	0
2/7/2025 19:46	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:46	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:46	64802	MONE_T2	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
2/7/2025 19:46	44301	BEAV_T2	3	5	2	0.87	0.23	-0.64	-0.1	-0.13	1	1	0	600	600	0
2/7/2025 19:46	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:46	67605	WARW_T1	1	1	0	0.6	0.3	-0.3	-1.08	-1.13	0	0	0	0	0	0
2/7/2025 19:46	52401	GRPA_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:46	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:46	52501	PROG_T1	0	0	0	0	0	0	0.52	0.54	1	1	0	300	300	0
2/7/2025 19:46	67502	WEWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:46	58402	MORO_T1	0	0	0	0	0	0	-0.28	0.28	3	2	-1	1950	1350	-600
2/7/2025 19:46	61304	EARL_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	600	600	0
2/7/2025 19:46	59003	MIFF_T1	1	1	0	0.4	0.5	0.1	-0.03	-0.28	0	0	0	0	0	0
2/7/2025 19:46	52403	GRPA_T2	2	1	-1	0.95	1.4	0.45	-0.45	-0.47	0	0	0	0	0	0
2/7/2025 19:46	43304	WATS_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/7/2025 19:46	66505	SMAN_T2	3	3	0	0.67	1.07	0.4	0	0	0	0	0	0	0	0
2/7/2025 19:46	57602	RUTH_T2	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
2/7/2025 19:46	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
2/7/2025 19:46	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:46	44502	HAMI_T2	1	1	0	3	3.3	0.3	0	0	0	0	0	0	0	0
2/7/2025 19:46	55002	NEWP_T1	2	3	1	0.55	0.67	0.12	-0.18	-0.21	0	0	0	0	0	0
2/7/2025 19:46	48602	POCA_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
2/7/2025 19:46	58401	MORO_T1	0	0	0	0	0	0	-1.04	-1.08	1	1	0	600	600	0
2/7/2025 19:46	59002	MIFF_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/7/2025 19:46	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:46	65602	QVIL_T2	1	6	5	0.1	0.28	0.18	0	0	0	0	0	0	0	0
2/7/2025 19:46	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
2/7/2025 19:47	53501	EVIL_T2	1	1	0	0.2	0.5	0.3	-0.96	-1	1	1	0	600	600	0
2/7/2025 19:47	53502	EVIL_T2	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
2/7/2025 19:47	60501	NMAN_T2	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
2/7/2025 19:47	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:47	42501	ALTA_T2	0	0	0	0	0	0	0.02	0.05	1	1	0	600	600	0
2/7/2025 19:47	58001	WCAR_T1	4	5	1	1.38	1.34	-0.04	0.56	0.6	0	0	0	0	0	0
2/7/2025 19:47	61304	EARL_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	600	600	0
2/7/2025 19:47	57401	SPAN_T1	2	2	0	0.4	0.75	0.35	0	0	0	0	0	0	0	0
2/7/2025 19:47	57403	SPAN_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
2/7/2025 19:47	42201	SHEN_T2	0	0	0	0	0	0	-0.15	-0.13	1	1	0	600	600	0
2/7/2025 19:47	58402	MORO_T1	0	0	0	0	0	0	-0.28	0.28	3	2	-1	1950	1350	-600
2/7/2025 19:47	58003	WCAR_T1	2	22	20	1.05	0.29	-0.76	0	0	0	0	0	0	0	0
2/7/2025 19:47	66505	SMAN_T2	3	3	0	0.67	1.07	0.4	0	0	0	0	0	0	0	0
2/7/2025 19:47	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:47	62102	ELAN_T1	0	0	0	0	0	0	0.7	0.74	0	0	0	0	0	0
2/7/2025 19:47	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:47	67401	WAKE_T2	0	0	0	0	0	0	-1.14	-1.14	0	0	0	0	0	0
2/7/2025 19:47	58202	NEWV_T1	0	0	0	0	0	0	-0.02	-0.07	0	0	0	0	0	0
2/7/2025 19:47	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:47	58401	MORO_T1	0	0	0	0	0	0	-1.04	-1.08	1	1	0	600	600	0
2/7/2025 19:48	66505	SMAN_T2	3	3	0	0.67	1.07	0.4	0	0	0	0	0	0	0	0
2/7/2025 19:48	57401	SPAN_T1	2	2	0	0.4	0.75	0.35	-0.66	-0.64	1	1	0	600	600	0
2/7/2025 19:48	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:48	66504	SMAN_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
2/7/2025 19:48	46506	LOHA_T1	3	3	0	1.9	2.23	0.33	-0.1	-0.09	0	0	0	0	0	0
2/7/2025 19:48	59102	WALK_T2	0	2	2	0	0.1	0.1	0.32	0.31	0	0	0	0	0	0
2/7/2025 19:48	61701	ELIZ_T1	1	1	0	5	5.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:48	58001	WCAR_T1	4	5	1	1.38	1.34	-0.04	0	0	0	0	0	0	0	0
2/7/2025 19:48	61703	ELIZ_T1	0	0	0	0	0	0	-0.66	-0.86	1	1	0	900	900	0
2/7/2025 19:48	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:48	46501	LOHA_T1	3	2	-1	0.77	0.55	-0.22	0	0	0	0	0	0	0	0
2/7/2025 19:48	54603	SUMM_T2	0	0	0	0	0	0	-0.41	-0.31	1	1	0	900	900	0
2/7/2025 19:48	58003	WCAR_T1	2	22	20	1.05	0.29	-0.76	0.55	0.54	0	0	0	0	0	0
2/7/2025 19:48	59101	WALK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:48	44203	POIN_T2	0	0	0	0	0	0	0.52	0.08	2	2	0	1800	1800	0
2/7/2025 19:49	52403	GRPA_T2	2	1	-1	0.95	1.4	0.45	0	0	0	0	0	0	0	0
2/7/2025 19:49	57401	SPAN_T1	2	2	0	0.4	0.75	0.35	0	0	0	0	0	0	0	0
2/7/2025 19:49	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:49	65602	QVIL_T2	1	6	5	0.1	0.28	0.18	0	0	0	0	0	0	0	0
2/7/2025 19:49	52401	GRPA_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:49	43304	WATS_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/7/2025 19:49	66503	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:49	66504	SMAN_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
2/7/2025 19:49	52501	PROG_T1	0	0	0	0	0	0	0.52	0.54	1	1	0	300	300	0
2/7/2025 19:49	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:49	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:49	44201	POIN_T1	71	115	44	0.25	0.32	0.07	-1.99	-2.01	2	2	0	2100	2100	0
2/7/2025 19:49	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:49	67605	WARW_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
2/7/2025 19:49	65604	QVIL_T2	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
2/7/2025 19:49	65401	MARI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:49	66505	SMAN_T2	3	3	0	0.67	1.07	0.4	0	0	0	0	0	0	0	0
2/7/2025 19:49	57602	RUTH_T2	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
2/7/2025 19:49	57403	SPAN_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
2/7/2025 19:49	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:49	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:49	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:49	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:49	61701	ELIZ_T1	1	1	0	5	5.1	0.1	0	0	0	0	0	0	0	0
2/7/2025 19:50	51702	OBER_T1	2	2	0	2.05	2.05	0	-0.3	-0.29	0	0	0	0	0	0
2/7/2025 19:50	64204	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
2/7/2025 19:50	52401	GRPA_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:50	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:50	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:50	52403	GRPA_T2	2	1	-1	0.95	1.4	0.45	-0.45	-0.47	0	0	0	0	0	0
2/7/2025 19:50	64904	MILL_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
2/7/2025 19:50	51201	MTON_T1	0	0	0	0	0	0	0.12	0.05	0	0	0	0	0	0
2/7/2025 19:50	64203	KINZ_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
2/7/2025 19:50	44801	EDAN_T2	1	1	0	0.7	0.4	-0.3	-0.4	-0.39	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/7/2025 19:51	52401	GRPA_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/7/2025 19:51	52402	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:51	57401	SPAN_T1	2	2	0	0.4	0.75	0.35	-0.66	-0.64	1	1	0	600	600	0
2/7/2025 19:51	52403	GRPA_T2	2	1	-1	0.95	1.4	0.45	0	0	0	0	0	0	0	0
2/7/2025 19:51	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/7/2025 19:51	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2025 19:53	55001	NEWP_T1	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
2/7/2025 19:53	55002	NEWP_T1	2	3	1	0.55	0.67	0.12	0	0	0	0	0	0	0	0
2/7/2025 19:54	52502	PROG_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
2/7/2025 19:55	45801	HEGI_T1	0	0	0	0	0	0	-0.43	-0.44	1	1	0	900	900	0
2/7/2025 20:02	58401	MORO_T1	0	0	0	0	0	0	-1.08	-1.08	1	1	0	600	600	0
2/7/2025 20:04	44301	BEAV_T2	5	5	0	0.32	0.55	0.23	0	0	0	0	0	0	0	0
2/7/2025 20:06	48602	POCA_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
2/7/2025 20:14	66903	SHIL_T2	0	0	0	0	0	0	-1.27	-1.27	0	0	0	0	0	0
2/7/2025 20:15	60701	BREC_T1	0	0	0	0	0	0	-0.36	-0.36	1	1	0	600	600	0
2/7/2025 20:23	52501	PROG_T1	0	0	0	0	0	0	0.53	0.51	1	1	0	300	300	0
2/7/2025 20:27	57401	SPAN_T1	2	2	0	0.75	0.6	-0.15	-0.68	-0.66	1	1	0	600	600	0
2/7/2025 21:08	63501	HEID_TBK1-2	1	1	0	0.2	0.1	-0.1	0.45	0.45	0	0	0	0	0	0
2/7/2025 22:28	67605	WARW_T1	1	0	-1	0.2	0	-0.2	-1	-0.98	0	0	0	0	0	0
2/7/2025 22:28	67605	WARW_T1	1	0	-1	0.2	0	-0.2	-1	-0.98	0	0	0	0	0	0
2/7/2025 22:28	67605	WARW_T1	1	0	-1	0.2	0	-0.2	-1	-0.98	0	0	0	0	0	0
2/7/2025 22:28	67605	WARW_T1	1	0	-1	0.2	0	-0.2	-1	-0.98	0	0	0	0	0	0
2/7/2025 22:31	60701	BREC_T1	0	0	0	0	0	0	-0.37	-0.44	1	1	0	600	600	0
2/7/2025 22:36	57401	SPAN_T1	0	0	0	0	0	0	-0.99	-0.73	1	1	0	600	600	0
2/7/2025 23:55	10801	CHHI_T1	0	0	0	0	0	0	-2.15	-2.15	3	3	0	2100	2100	0
2/8/2025 5:46	61803	EELI_T2	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
2/8/2025 8:01	11104	EGYP_T1	21	1	-20	0.36	0	-0.36	0	0	0	0	0	0	0	0
2/8/2025 8:08	60301	TWVA_T2	0	0	0	0	0	0	-3.21	-3.18	2	2	0	1800	1800	0
2/8/2025 8:12	45501	DERR_T2	3	9	6	0.2	0	-0.2	-0.4	-0.38	2	2	0	1800	1800	0
2/8/2025 8:12	45502	DERR_T2	7	7	0	0.89	0.95	0.06	0	0	0	0	0	0	0	0
2/8/2025 8:13	45501	DERR_T2	3	9	6	0.2	0	-0.2	-0.4	-0.38	2	2	0	1800	1800	0
2/8/2025 8:13	45901	AUBU_T1	20	22	2	0.18	0.26	0.08	0.01	0.01	0	0	0	0	0	0
2/8/2025 8:13	45502	DERR_T2	7	7	0	0.89	0.95	0.06	0	0	0	0	0	0	0	0
2/8/2025 8:13	45902	AUBU_T1	0	1	1	0	0	0	0.01	0.01	1	1	0	600	600	0
2/8/2025 8:14	45902	AUBU_T1	0	1	1	0	0	0	0.01	0.01	1	1	0	600	600	0
2/8/2025 8:14	45901	AUBU_T1	20	22	2	0.18	0.26	0.08	0	0	0	0	0	0	0	0
2/8/2025 8:18	23402	HONE_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/8/2025 8:18	23401	HONE_T2	3	9	6	0.37	0.4	0.03	0.03	0	0	0	0	0	0	0
2/8/2025 8:19	47002	HUGH_T2	3	3	0	1	1.43	0.43	-1	-1	1	1	0	600	600	0
2/8/2025 8:19	47001	HUGH_T2	3	3	0	6.33	7	0.67	0	0	0	0	0	0	0	0
2/8/2025 8:20	26402	INOR_T1	11	37	26	0.32	0.32	0	0	0	0	0	0	0	0	0
2/8/2025 8:20	26401	INOR_T1	114	130	16	1.36	1.59	0.23	0.78	0.84	0	0	0	0	0	0
2/8/2025 8:21	16902	MECK_T1	0	41	41	0	0.59	0.59	-0.98	-2.12	0	0	0	0	0	0
2/8/2025 8:23	24902	WHHA_T1	4	9	5	0.88	0.59	-0.29	0.18	0.21	0	0	0	0	0	0
2/8/2025 8:23	24901	WHHA_T1	8	8	0	0.5	0.22	-0.28	0	0	0	0	0	0	0	0
2/8/2025 8:26	25801	SUTR_T2	4	6	2	4.2	3.92	-0.68	0.07	0.09	0	0	0	0	0	0
2/8/2025 8:27	24901	WHHA_T1	8	8	0	0.5	0.22	-0.28	0	0	0	0	0	0	0	0
2/8/2025 8:27	24902	WHHA_T1	4	9	5	0.88	0.59	-0.29	0.18	0.21	0	0	0	0	0	0
2/8/2025 8:29	63501	HEID_TBK1-2	1	1	0	0.1	0.1	0	-0.43	-0.42	1	1	0	900	900	0
2/8/2025 8:30	52403	GRPA_T2	20	34	14	0.55	0.51	-0.04	-1.09	-1.09	0	0	0	0	0	0
2/8/2025 8:30	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 8:30	52402	GRPA_T2	33	46	13	0.42	0.46	0.04	0	0	0	0	0	0	0	0
2/8/2025 8:30	52404	GRPA_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/8/2025 8:30	52401	GRPA_T2	0	4	4	0	0.7	0.7	0	0	0	0	0	0	0	0
2/8/2025 8:32	52403	GRPA_T2	20	34	14	0.55	0.51	-0.04	0	0	0	0	0	0	0	0
2/8/2025 8:32	52402	GRPA_T2	33	46	13	0.42	0.46	0.04	0	0	0	0	0	0	0	0
2/8/2025 8:32	52401	GRPA_T2	0	4	4	0	0.7	0.7	0	0	0	0	0	0	0	0
2/8/2025 8:32	52404	GRPA_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/8/2025 8:37	25402	LAHA_T2	58	74	16	0.73	0.93	0.2	-0.34	-0.3	0	0	0	0	0	0
2/8/2025 8:37	25404	LAHA_T2	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/8/2025 8:40	67605	WARW_T1	0	0	0	0	0	0	-0.94	-0.93	0	0	0	0	0	0
2/8/2025 8:40	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	2	2	0	1200	1200	0
2/8/2025 8:40	45901	AUBU_T1	21	27	6	0.21	0.23	0.02	0	0	0	0	0	0	0	0
2/8/2025 8:41	46204	DANV_T2	91	60	-31	0.47	0.29	-0.18	0	0	0	0	0	0	0	0
2/8/2025 8:41	46206	DANV_T2	6	6	0	0.82	0.2	-0.62	1.47	1.47	2	2	0	2100	2100	0
2/8/2025 8:41	46203	DANV_T2	20	29	9	0.68	0.69	0.01	0	0	0	0	0	0	0	0
2/8/2025 8:42	46206	DANV_T2	6	6	0	0.82	0.2	-0.62	0	0	0	0	0	0	0	0
2/8/2025 8:42	46204	DANV_T2	91	60	-31	0.47	0.29	-0.18	0	0	0	0	0	0	0	0
2/8/2025 8:42	46203	DANV_T2	20	29	9	0.68	0.69	0.01	-1.61	-1.52	0	0	0	0	0	0
2/8/2025 8:43	46204	DANV_T2	91	60	-31	0.47	0.29	-0.18	0	0	0	0	0	0	0	0
2/8/2025 8:43	46203	DANV_T2	20	29	9	0.68	0.69	0.01	-1.61	-1.52	0	0	0	0	0	0
2/8/2025 8:43	46206	DANV_T2	6	6	0	0.82	0.2	-0.62	0	0	0	0	0	0	0	0
2/8/2025 8:43	45901	AUBU_T1	21	27	6	0.21	0.23	0.02	0.01	0.01	0	0	0	0	0	0
2/8/2025 8:44	46204	DANV_T2	91	60	-31	0.47	0.29	-0.18	0	0	0	0	0	0	0	0
2/8/2025 8:44	46206	DANV_T2	6	6	0	0.82	0.2	-0.62	1.47	1.47	2	2	0	2100	2100	0
2/8/2025 8:44	46203	DANV_T2	20	29	9	0.68	0.69	0.01	-1.61	-1.52	0	0	0	0	0	0
2/8/2025 8:45	46203	DANV_T2	25	30	5	0.74	0.73	-0.01	-1.61	-1.52	0	0	0	0	0	0
2/8/2025 8:45	46206	DANV_T2	5	5	0	0.44	0	-0.44	1.47	1.47	2	2	0	2100	2100	0
2/8/2025 8:45	46204	DANV_T2	58	38	-20	0.37	0.19	-0.18	0	0	0	0	0	0	0	0
2/8/2025 8:46	25404	LAHA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 8:46	25402	LAHA_T2	63	39	-24	0.79	1	0.21	-0.34	-0.3	0	0	0	0	0	0
2/8/2025 8:46	46204	DANV_T2	58	38	-20	0.37	0.19	-0.18	0	0	0	0	0	0	0	0
2/8/2025 8:46	46206	DANV_T2	5	5	0	0.44	0	-0.44	0	0	0	0	0	0	0	0
2/8/2025 8:46	46203	DANV_T2	25	30	5	0.74	0.73	-0.01	-1.61	-1.52	0	0	0	0	0	0
2/8/2025 8:48	43201	MVIL_T2	0	0	0	0	0	0	1.25	1.25	0	0	0	0	0	0
2/8/2025 8:48	43202	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 8:50	58201	NEWV_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
2/8/2025 8:50	58202	NEWV_T1	0	0	0	0	0	0	-0.51	-0.44	0	0	0	0	0	0
2/8/2025 8:52	55002	NEWP_T1	2	3	1	0.55	0.63	0.08	-0.17	-0.18	0	0	0	0	0	0
2/8/2025 8:52	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 8:56	45901	AUBU_T1	20	26	6	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
2/8/2025 8:56	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/8/2025 9:00	25402	LAHA_T2	35	24	-11	0.77	0.94	0.17	-0.3	-0.26	0	0	0	0	0	0
2/8/2025 9:00	44301	BEAV_T2	0	0	0	0	0	0	-1.13	-1.09	1	1	0	600	600	0
2/8/2025 9:00	67604	WARW_T1	0	0	0	0	0	0	0.13	0.07	0	0	0	0	0	0
2/8/2025 9:00	28102	TWLA_T2	13	10	-3	0.64	0.43	-0.21	0.3	0.31	0	0	0	0	0	0
2/8/2025 9:00	54601	SUMM_T2	0	0	0	0	0	0	-1.71	-1.7	2	2	0	2100	2100	0
2/8/2025 9:00	25404	LAHA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/8/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
2/8/2025 9:00	42501	ALTA_T2	0	0	0	0	0	0	-0.02	0.01	1	1	0	600	600	0
2/8/2025 9:07	52502	PROG_T2	0	0	0	0	0	0	-0.36	-0.34	1	1	0	900	900	0
2/8/2025 9:07	44201	POIN_T1	0	0	0	0	0	0	-1.47	-1.5	1	1	0	1200	1200	0
2/8/2025 9:09	24901	WHHA_T1	12	3	-9	0.44	0	-0.44	0	0	0	0	0	0	0	0
2/8/2025 9:09	66901	SHIL_T2	0	0	0	0	0	0	-1.63	-1.58	1	1	0	1200	1200	0
2/8/2025 9:09	24902	WHHA_T1	6	7	1	0.72	1	0.28	0.18	0.19	0	0	0	0	0	0
2/8/2025 9:09	66903	SHIL_T2	0	0	0	0	0	0	-1.14	-1.14	0	0	0	0	0	0
2/8/2025 9:09	45901	AUBU_T1	26	10	-16	0.22	0.16	-0.06	0.01	0.01	0	0	0	0	0	0
2/8/2025 9:10	45901	AUBU_T1	26	10	-16	0.22	0.16	-0.06	0.01	0.01	0	0	0	0	0	0
2/8/2025 9:10	29402	BELT_T1	1	1	0	5.8	6.5	0.7	0	0	0	0	0	0	0	0
2/8/2025 9:11	24902	WHHA_T1	6	7	1	0.72	1	0.28	0.18	0.19	0	0	0	0	0	0
2/8/2025 9:11	45502	DERR_T2	5	3	-2	0.58	0.4	-0.18	0	0	0	0	0	0	0	0
2/8/2025 9:11	24901	WHHA_T1	12	3	-9	0.44	0	-0.44	0	0	0	0	0	0	0	0
2/8/2025 9:11	45901	AUBU_T1	26	10	-16	0.22	0.16	-0.06	0	0	0	0	0	0	0	0
2/8/2025 9:11	45501	DERR_T2	0	4	4	0	0	0	-0.99	-1	4	4	0	3600	3600	0
2/8/2025 9:11	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/8/2025 9:11	60301	TWVA_T2	0	0	0	0	0	0	-3.2	-3.17	2	2	0	1800	1800	0
2/8/2025 9:12	46206	DANV_T2	5	0	-5	0.22	0	-0.22	1.45	1.47	2	2	0	2100	2100	0
2/8/2025 9:12	46204	DANV_T2	36	19	-17	0.33	0.13	-0.2	0	0	0	0	0	0	0	0
2/8/2025 9:12	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/8/2025 9:12	29402	BELT_T1	1	1	0	5.8	6.5	0.7	0	0	0	0	0	0	0	0
2/8/2025 9:12	46203	DANV_T2	28	43	15	0.66	0.66	0	-3.18	-3.25	0	0	0	0	0	0
2/8/2025 9:13	10801	CHHI_T1	1	2	1	0.4	0	-0.4	-1.82	-1.83	3	3	0	2100	2100	0
2/8/2025 9:13	46204	DANV_T2	36	19	-17	0.33	0.13	-0.2	0	0	0	0	0	0	0	0
2/8/2025 9:13	46203	DANV_T2	28	43	15	0.66	0.66	0	-1.59	-1.62	0	0	0	0	0	0
2/8/2025 9:13	46206	DANV_T2	5	0	-5	0.22	0	-0.22	1.45	1.47	2	2	0	2100	2100	0
2/8/2025 9:14	45901	AUBU_T1	26	10	-16	0.22	0.16	-0.06	0.01	0.01	0	0	0	0	0	0
2/8/2025 9:14	46206	DANV_T2	5	0	-5	0.22	0	-0.22	0	0	0	0	0	0	0	0
2/8/2025 9:14	46203	DANV_T2	28	43	15	0.66	0.66	0	-1.59	-1.62	0	0	0	0	0	0
2/8/2025 9:14	46204	DANV_T2	36	19	-17	0.33	0.13	-0.2	0	0	0	0	0	0	0	0
2/8/2025 9:15	46203	DANV_T2	26	65	39	0.8	0.59	-0.21	0	0	0	0	0	0	0	0
2/8/2025 9:15	46206	DANV_T2	0	1	1	0	0	0	1.45	1.47	2	2	0	2100	2100	0
2/8/2025 9:15	45501	DERR_T2	0	4	4	0	0.2	0.2	-0.5	-0.5	2	2	0	1800	1800	0
2/8/2025 9:15	45502	DERR_T2	3	3	0	0.47	0.2	-0.27	0	0	0	0	0	0	0	0
2/8/2025 9:15	46204	DANV_T2	17	14	-3	0.19	0.13	-0.06	0	0	0	0	0	0	0	0
2/8/2025 9:16	46203	DANV_T2	26	65	39	0.8	0.59	-0.21	-1.59	-1.62	0	0	0	0	0	0
2/8/2025 9:16	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 9:16	46204	DANV_T2	17	14	-3	0.19	0.13	-0.06	0	0	0	0	0	0	0	0
2/8/2025 9:21	46302	ROHR_T1	3	9	6	0.47	0.4	-0.07	0.25	0.23	0	0	0	0	0	0
2/8/2025 9:21	46301	ROHR_T1	11	6	-5	1.15	1.4	0.25	0	0	0	0	0	0	0	0
2/8/2025 9:22	44201	POIN_T1	0	0	0	0	0	0	-1.5	-1.5	1	1	0	1200	1200	0
2/8/2025 9:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 9:26	46203	DANV_T2	26	65	39	0.8	0.59	-0.21	-1.62	-1.61	0	0	0	0	0	0
2/8/2025 9:26	46204	DANV_T2	17	14	-3	0.19	0.13	-0.06	0	0	0	0	0	0	0	0
2/8/2025 9:26	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 9:28	29402	BELT_T1	1	1	0	6.2	6.8	0.6	0	0	0	0	0	0	0	0
2/8/2025 9:28	27901	BCRK_T1	2	3	1	3.5	7.2	3.7	0	0	0	0	0	0	0	0
2/8/2025 9:30	21203	ECAR_T1	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
2/8/2025 9:31	46206	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 9:31	46203	DANV_T2	43	80	37	0.64	0.59	-0.05	-1.62	-1.61	0	0	0	0	0	0
2/8/2025 9:31	46204	DANV_T2	5	20	15	0.28	0.31	0.03	0	0	0	0	0	0	0	0
2/8/2025 9:33	63203	MGTN_T1	1	5	4	0.1	0.1	0	0	0	0	0	0	0	0	0
2/8/2025 9:33	63204	MGTN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 9:37	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
2/8/2025 9:37	22601	KIMB_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/8/2025 9:37	51804	EBEN_T2	0	0	0	0	0	0	-0.12	-0.13	1	1	0	900	900	0
2/8/2025 9:39	49804	UNIV_T1	0	0	0	0	0	0	0.66	0.69	0	0	0	0	0	0
2/8/2025 9:39	49803	UNIV_T1	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
2/8/2025 9:45	11104	EGYP_T1	1	4	3	0.7	0.8	0.1	0.47	0.46	0	0	0	0	0	0
2/8/2025 9:45	10801	CHHI_T1	2	2	0	1.6	0.6	-1	-1.86	-1.74	3	3	0	2100	2100	0
2/8/2025 9:49	11104	EGYP_T1	1	4	3	0.7	0.8	0.1	0.47	0.46	0	0	0	0	0	0
2/8/2025 9:51	43201	MVIL_T2	0	1	1	0	0	0	-0.3	-0.33	0	0	0	0	0	0
2/8/2025 9:51	43202	MVIL_T2	3	4	1	0.5	1.25	0.75	0	0	0	0	0	0	0	0
2/8/2025 9:52	51802	EBEN_T2	0	0	0	0	0	0	-0.29	-0.31	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/8/2025 9:53	40603	PIGR_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
2/8/2025 9:53	40602	PIGR_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
2/8/2025 10:03	43202	MVIL_T2	3	3	0	0.97	1.27	0.3	-0.54	-0.53	0	0	0	0	0	0
2/8/2025 10:03	10401	LIGA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 10:03	43201	MVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/8/2025 10:04	43201	MVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/8/2025 10:04	58402	MORO_T1	1	6	5	1.2	0.3	-0.9	0	0	0	0	0	0	0	0
2/8/2025 10:04	43202	MVIL_T2	3	3	0	0.97	1.27	0.3	-0.54	-0.53	0	0	0	0	0	0
2/8/2025 10:04	58401	MORO_T1	0	0	0	0	0	0	-1.05	-1.01	1	1	0	600	600	0
2/8/2025 10:05	58401	MORO_T1	0	0	0	0	0	0	-1.05	-1.01	1	1	0	600	600	0
2/8/2025 10:05	58402	MORO_T1	1	6	5	1.2	0.3	-0.9	0	0	0	0	0	0	0	0
2/8/2025 10:05	13303	ORVI_T1	0	0	0	0	0	0	0.79	0.77	0	0	0	0	0	0
2/8/2025 10:05	55002	NEWP_T1	2	3	1	0.7	0.63	-0.07	-0.17	-0.17	0	0	0	0	0	0
2/8/2025 10:05	44201	POIN_T1	0	4	4	0	0.1	0.1	-1.53	-1.57	1	1	0	1200	1200	0
2/8/2025 10:06	22601	KIMB_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/8/2025 10:06	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
2/8/2025 10:09	40602	PIGR_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
2/8/2025 10:09	24901	WHHA_T1	7	4	-3	0.37	0.4	0.03	0	0	0	0	0	0	0	0
2/8/2025 10:09	24902	WHHA_T1	42	75	33	1.05	0.98	-0.07	0.8	0.8	0	0	0	0	0	0
2/8/2025 10:09	44201	POIN_T1	0	4	4	0	0.1	0.1	-4.71	-4.51	3	3	0	3600	3600	0
2/8/2025 10:13	24102	EHAZ_T1	30	38	8	1.03	1.04	0.01	0.2	0.28	0	0	0	0	0	0
2/8/2025 10:13	16103	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 10:13	16102	BING_T2	1	1	0	5.8	6.5	0.7	0	0	0	0	0	0	0	0
2/8/2025 10:13	24103	EHAZ_T1	0	11	11	0	0.4	0.4	0	0	0	0	0	0	0	0
2/8/2025 10:13	24101	EHAZ_T1	38	40	2	0.94	1.28	0.34	0	0	0	0	0	0	0	0
2/8/2025 10:13	24105	EHAZ_T1	12	24	12	2.7	2.62	-0.08	0	0	0	0	0	0	0	0
2/8/2025 10:17	26402	INOR_T1	17	19	2	0.51	0	-0.51	-1.73	-1.8	1	1	0	600	600	0
2/8/2025 10:17	26401	INOR_T1	105	108	3	1.31	0.7	-0.61	0	0	0	0	0	0	0	0
2/8/2025 10:20	44202	POIN_T2	0	0	0	0	0	0	-0.89	-0.87	1	1	0	1200	1200	0
2/8/2025 10:23	43201	MVIL_T2	1	1	0	0.2	0.1	-0.1	-0.3	-0.31	0	0	0	0	0	0
2/8/2025 10:23	43202	MVIL_T2	3	3	0	1.3	1.95	0.65	0	0	0	0	0	0	0	0
2/8/2025 10:24	44202	POIN_T2	0	0	0	0	0	0	-0.87	-0.86	1	1	0	1200	1200	0
2/8/2025 10:26	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	2	2	0	1200	1200	0
2/8/2025 10:26	45901	AUBU_T1	14	19	5	0.2	0.21	0.01	0	0	0	0	0	0	0	0
2/8/2025 10:27	45501	DERR_T2	4	2	-2	0.53	0.1	-0.43	-0.47	-0.48	2	2	0	1800	1800	0
2/8/2025 10:27	45502	DERR_T2	5	6	1	0.48	0.35	-0.13	0	0	0	0	0	0	0	0
2/8/2025 10:28	45901	AUBU_T1	14	19	5	0.2	0.21	0.01	0	0	0	0	0	0	0	0
2/8/2025 10:28	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/8/2025 10:29	29402	BELT_T1	1	1	0	6.1	6.4	0.3	0	0	0	0	0	0	0	0
2/8/2025 10:29	63501	HEID_TBK1-2	5	22	17	0.28	0.25	-0.03	-0.43	-0.45	1	1	0	900	900	0
2/8/2025 10:30	52403	GRPA_T2	16	26	10	0.82	0.74	-0.08	-2.24	-2.24	0	0	0	0	0	0
2/8/2025 10:30	45502	DERR_T2	5	5	0	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
2/8/2025 10:30	52401	GRPA_T2	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/8/2025 10:30	45501	DERR_T2	2	3	1	0.2	0	-0.2	-0.47	-0.48	2	2	0	1800	1800	0
2/8/2025 10:30	52402	GRPA_T2	19	20	1	0.53	0.33	-0.2	0	0	0	0	0	0	0	0
2/8/2025 10:31	52403	GRPA_T2	16	26	10	0.82	0.74	-0.08	-1.12	-1.12	0	0	0	0	0	0
2/8/2025 10:31	52401	GRPA_T2	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/8/2025 10:31	52402	GRPA_T2	19	20	1	0.53	0.33	-0.2	0	0	0	0	0	0	0	0
2/8/2025 10:32	52401	GRPA_T2	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/8/2025 10:32	52403	GRPA_T2	16	26	10	0.82	0.74	-0.08	0	0	0	0	0	0	0	0
2/8/2025 10:32	52402	GRPA_T2	19	20	1	0.53	0.33	-0.2	0	0	0	0	0	0	0	0
2/8/2025 10:34	43202	MVIL_T2	3	2	-1	1.33	2.1	0.77	0	0	0	0	0	0	0	0
2/8/2025 10:34	43201	MVIL_T2	1	1	0	0.1	0.8	0.7	-0.3	-0.31	0	0	0	0	0	0
2/8/2025 10:36	47401	PENS_T1	0	0	0	0	0	0	0.75	0.75	0	0	0	0	0	0
2/8/2025 10:38	42601	TUSC_T1	47	69	22	0.89	0.89	0	-0.34	-0.29	2	2	0	1800	1800	0
2/8/2025 10:44	45802	HEGI_T2	44	38	-6	0.99	0.54	-0.45	0	0	0	0	0	0	0	0
2/8/2025 10:52	49803	UNIV_T1	1	2	1	5.8	5.7	-0.1	-0.78	-0.79	0	0	0	0	0	0
2/8/2025 10:54	49803	UNIV_T1	1	2	1	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
2/8/2025 11:01	53501	EVIL_T2	1	1	0	0.8	0.4	-0.4	-0.86	-0.92	1	1	0	600	600	0
2/8/2025 11:01	53502	EVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/8/2025 11:02	53501	EVIL_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
2/8/2025 11:02	53502	EVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/8/2025 11:04	26401	INOR_T1	31	107	76	0.74	1.37	0.63	0	0	0	0	0	0	0	0
2/8/2025 11:04	26402	INOR_T1	0	26	26	0	0.33	0.33	-1.72	-1.68	1	1	0	600	600	0
2/8/2025 11:13	22104	EDEL_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/8/2025 11:13	22102	EDEL_T1	0	0	0	0	0	0	-0.62	-0.24	0	0	0	0	0	0
2/8/2025 11:20	26401	INOR_T1	105	107	2	1.46	1.29	-0.17	0.7	0.73	0	0	0	0	0	0
2/8/2025 11:20	26402	INOR_T1	12	63	51	0.33	0.38	0.05	0	0	0	0	0	0	0	0
2/8/2025 11:29	10801	CHHI_T1	5	3	-2	0.88	1.4	0.52	-2.03	-2.02	3	3	0	2100	2100	0
2/8/2025 11:31	10801	CHHI_T1	2	3	1	1.9	1.2	-0.7	-2.03	-2.02	3	3	0	2100	2100	0
2/8/2025 11:44	21206	ECAR_T2	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
2/8/2025 11:44	21204	ECAR_T2	6	5	-1	2.16	1.88	-0.28	-0.55	-0.54	0	0	0	0	0	0
2/8/2025 11:45	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 11:45	24702	FLND_T2	5	11	6	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
2/8/2025 11:45	24701	FLND_T2	40	37	-3	1.5	1.14	-0.36	-0.74	-0.74	0	0	0	0	0	0
2/8/2025 11:45	24703	FLND_T2	27	12	-15	0.97	1.1	0.13	0	0	0	0	0	0	0	0
2/8/2025 11:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 11:47	45902	AUBU_T1	0	6	6	0	0.25	0.25	0	0	0	0	0	0	0	0
2/8/2025 11:47	45901	AUBU_T1	34	98	64	0.23	0.34	0.11	0.01	0.01	0	0	0	0	0	0
2/8/2025 11:49	40101	HUNT_T2	15	13	-2	0.45	0.66	0.21	0	0	0	0	0	0	0	0
2/8/2025 11:51	13103	NHAM_T2	0	0	0	0	0	0	-1.56	-1.55	1	1	0	600	600	0
2/8/2025 11:51	13105	NHAM_T2	19	21	2	0.93	1.42	0.49	0	0	0	0	0	0	0	0
2/8/2025 11:59	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 12:00	20603	GRWO_T2	0	0	0	0	0	0	-0.5	-0.46	1	1	0	900	900	0
2/8/2025 12:09	45902	AUBU_T1	2	9	7	0.15	0.22	0.07	0.01	0.01	1	1	0	600	600	0
2/8/2025 12:09	45901	AUBU_T1	58	121	63	0.27	0.33	0.06	0	0	0	0	0	0	0	0
2/8/2025 12:10	45902	AUBU_T1	2	9	7	0.15	0.22	0.07	0.01	0.01	1	1	0	600	600	0
2/8/2025 12:10	45901	AUBU_T1	58	121	63	0.27	0.33	0.06	0	0	0	0	0	0	0	0
2/8/2025 12:11	45902	AUBU_T1	2	9	7	0.15	0.22	0.07	0.01	0.01	1	1	0	600	600	0
2/8/2025 12:13	45901	AUBU_T1	58	121	63	0.27	0.33	0.06	0	0	0	0	0	0	0	0
2/8/2025 12:13	45901	AUBU_T1	58	121	63	0.27	0.33	0.06	0.01	0.01	0	0	0	0	0	0
2/8/2025 12:13	45902	AUBU_T1	2	9	7	0.15	0.22	0.07	0	0	0	0	0	0	0	0
2/8/2025 12:14	60104	COCA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/8/2025 12:14	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 12:14	62104	ELAN_T1	0	0	0	0	0	0	-0.29	-0.35	2	2	0	1500	1500	0
2/8/2025 12:15	60102	COCA_T1	43	35	-8	0.13	0.11	-0.02	-1.2	-0.97	2	2	0	1200	1200	0
2/8/2025 12:15	62104	ELAN_T1	0	0	0	0	0	0	-0.29	-0.35	2	2	0	1500	1500	0
2/8/2025 12:19	62104	ELAN_T1	0	0	0	0	0	0	-0.29	-0.35	2	2	0	1500	1500	0
2/8/2025 12:26	41602	CLEV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/8/2025 12:26	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 12:28	41602	CLEV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/8/2025 12:28	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 12:29	16101	BING_T2	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
2/8/2025 12:29	16102	BING_T2	1	1	0	4.5	4.8	0.3	0	0	0	0	0	0	0	0
2/8/2025 12:30	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 12:36	66902	SHIL_T2	0	0	0	0	0	0	-3.85	-3.87	0	0	0	0	0	0
2/8/2025 12:37	66902	SHIL_T2	0	0	0	0	0	0	-1.93	-1.94	0	0	0	0	0	0
2/8/2025 12:37	66903	SHIL_T2	0	0	0	0	0	0	-3.39	-3.42	0	0	0	0	0	0
2/8/2025 12:38	49803	UNIV_T1	1	1	0	5.6	5.8	0.2	-0.94	-0.9	0	0	0	0	0	0
2/8/2025 12:38	66901	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 12:39	66901	SHIL_T2	0	0	0	0	0	0	-1.64	-1.65	1	1	0	1200	1200	0
2/8/2025 12:41	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 12:44	24701	FLND_T2	40	33	-7	0.95	0.69	-0.26	0	0	0	0	0	0	0	0
2/8/2025 12:44	24703	FLND_T2	8	6	-2	0.44	0.9	0.46	-0.05	-0.07	0	0	0	0	0	0
2/8/2025 12:44	24702	FLND_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 12:47	52402	GRPA_T2	2	10	8	0.35	0.45	0.1	0	0	0	0	0	0	0	0
2/8/2025 12:47	52403	GRPA_T2	7	3	-4	0.6	1.8	1.2	-1.15	-1.2	0	0	0	0	0	0
2/8/2025 12:59	24703	FLND_T2	3	8	5	0.77	0.38	-0.39	0	0	0	0	0	0	0	0
2/8/2025 12:59	24702	FLND_T2	0	3	3	0	0	0	-0.35	-0.67	1	1	0	1200	1200	0
2/8/2025 12:59	24701	FLND_T2	31	26	-5	0.72	0.73	0.01	0	0	0	0	0	0	0	0
2/8/2025 12:59	60802	BUCK_T2	0	0	0	0	0	0	0.16	0.19	0	0	0	0	0	0
2/8/2025 13:04	64204	KINZ_T1	2	1	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
2/8/2025 13:04	64203	KINZ_T1	0	0	0	0	0	0	-1.84	-0.49	2	1	-1	1800	600	-1200
2/8/2025 13:04	64202	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/8/2025 13:05	65205	PRIN_T1	2	1	-1	3.5	1.7	-1.8	0	0	0	0	0	0	0	0
2/8/2025 13:06	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 13:07	67201	TEHI_T1	0	0	0	0	0	0	0.16	0.1	0	0	0	0	0	0
2/8/2025 13:07	67203	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 13:11	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
2/8/2025 13:11	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 13:11	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/8/2025 13:11	16102	BING_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
2/8/2025 13:30	21204	ECAR_T2	5	4	-1	1.63	0.1	-1.53	0	0	0	0	0	0	0	0
2/8/2025 13:30	21206	ECAR_T2	1	1	0	8	7.9	-0.1	0.07	0.12	0	0	0	0	0	0
2/8/2025 13:31	21206	ECAR_T2	1	1	0	8	7.9	-0.1	0.07	0.12	0	0	0	0	0	0
2/8/2025 13:31	21204	ECAR_T2	5	4	-1	1.63	0.1	-1.53	0	0	0	0	0	0	0	0
2/8/2025 13:34	44502	HAMI_T2	1	1	0	2.1	1.9	-0.2	0	0	0	0	0	0	0	0
2/8/2025 13:34	44503	HAMI_T2	0	0	0	0	0	0	-0.55	-0.69	0	0	0	0	0	0
2/8/2025 13:38	55001	NEWP_T1	0	0	0	0	0	0	-1.79	-1.85	2	2	0	1200	1200	0
2/8/2025 13:38	55002	NEWP_T1	4	3	-1	0.78	1.1	0.32	0	0	0	0	0	0	0	0
2/8/2025 13:44	60102	COCA_T1	6	36	30	0.1	0.12	0.02	-1.01	-1.15	2	2	0	1200	1200	0
2/8/2025 13:44	63501	HEID_TBK1-2	12	33	21	0.21	0.26	0.05	-0.45	-0.43	1	1	0	900	900	0
2/8/2025 13:47	63501	HEID_TBK1-2	25	33	8	0.24	0.27	0.03	-0.45	-0.43	1	1	0	900	900	0
2/8/2025 13:49	63501	HEID_TBK1-2	25	33	8	0.24	0.27	0.03	-0.89	-0.86	2	2	0	1800	1800	0
2/8/2025 13:54	24202	PROV_T4	0	0	0	0	0	0	-0.77	-0.8	1	1	0	1200	1200	0
2/8/2025 13:54	59402	RFLD_T2	0	0	0	0	0	0	-0.84	-0.83	1	1	0	450	450	0
2/8/2025 13:58	60201	ATGL_T2	4	78	74	0.13	0.27	0.14	-0.23	-0.33	0	0	0	0	0	0
2/8/2025 13:59	60201	ATGL_T2	4	78	74	0.13	0.27	0.14	-0.23	-0.33	0	0	0	0	0	0
2/8/2025 14:03	12006	HATF_T1	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
2/8/2025 14:03	12005	HATF_T1	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
2/8/2025 14:03	12003	HATF_T1	0	0	0	0	0	0	0.97	0.97	0	0	0	0	0	0
2/8/2025 14:10	60301	TWVA_T2	0	0	0	0	0	0	-3.79	-3.82	4	4	0	3600	3600	0
2/8/2025 14:11	14103	TRUM_T2	1	2	1	1	1	0	0	0	0	0	0	0	0	0
2/8/2025 14:11	14102	TRUM_T2	0	0	0	0	0	0	-1.15	-1.18	3	3	0	2400	2400	0
2/8/2025 14:21	13302	ORVI_T2	4	1	-3	0.17	0.3	0.13	1.04	1.11	0	0	0	0	0	0
2/8/2025 14:21	13303	ORVI_T1	0	0	0	0	0	0	1.36	1.26	0	0	0	0	0	0
2/8/2025 14:24	66902	SHIL_T2	5	0	-5	0.1	0	-0.1	-1.95	-1.95	0	0	0	0	0	0
2/8/2025 14:25	66902	SHIL_T2	5	0	-5	0.1	0	-0.1	-1.95	-1.95	0	0	0	0	0	0
2/8/2025 14:25	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 14:30	62106	ELAN_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
2/8/2025 14:43	46204	DANV_T2	5	22	17	0.22	0.34	0.12	0	0	0	0	0	0	0	0
2/8/2025 14:43	46203	DANV_T2	62	67	5	0.52	0.56	0.04	0	0	0	0	0	0	0	0
2/8/2025 14:43	46206	DANV_T2	5	5	0	0.4	0.8	0.4	1.43	1.42	2	2	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/8/2025 14:45	44801	EDAN_T2	1	4	3	1	0.55	-0.45	-0.44	-0.44	0	0	0	0	0	0
2/8/2025 14:46	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 14:46	46203	DANV_T2	40	66	26	0.51	0.56	0.05	0	0	0	0	0	0	0	0
2/8/2025 14:46	46206	DANV_T2	5	6	1	0.55	0.5	-0.05	1.43	1.42	2	2	0	2100	2100	0
2/8/2025 14:46	46204	DANV_T2	19	18	-1	0.41	0.21	-0.2	0	0	0	0	0	0	0	0
2/8/2025 14:48	26401	INOR_T1	99	101	2	1.02	0.93	-0.09	0.63	0.6	0	0	0	0	0	0
2/8/2025 14:48	26402	INOR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/8/2025 14:49	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 14:51	44502	HAMI_T2	1	1	0	1.9	2.1	0.2	0	0	0	0	0	0	0	0
2/8/2025 14:51	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 15:14	60201	ATGL_T2	28	64	36	0.15	0.3	0.15	-0.37	-0.33	0	0	0	0	0	0
2/8/2025 15:15	24902	WHHA_T1	48	95	47	0.78	0.67	-0.11	0	0	0	0	0	0	0	0
2/8/2025 15:15	24901	WHHA_T1	1	2	1	0.4	0	-0.4	-0.61	-0.63	0	0	0	0	0	0
2/8/2025 18:11	59402	RFLD_T2	0	1	1	0	0	0	-0.79	-0.81	1	1	0	450	450	0
2/8/2025 18:58	63501	HEID_TBK1-2	1	16	15	0.2	0.18	-0.02	-0.36	-0.3	1	1	0	900	900	0
2/8/2025 18:58	55001	NEWP_T1	0	0	0	0	0	0	-0.93	-0.88	1	1	0	600	600	0
2/8/2025 18:58	55002	NEWP_T1	3	4	1	0.87	1.15	0.28	0	0	0	0	0	0	0	0
2/8/2025 18:59	44502	HAMI_T2	2	1	-1	1.05	2.2	1.15	0	0	0	0	0	0	0	0
2/8/2025 18:59	51802	EBEN_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/8/2025 18:59	44503	HAMI_T2	0	0	0	0	0	0	-0.68	-0.54	0	0	0	0	0	0
2/8/2025 18:59	51804	EBEN_T2	0	0	0	0	0	0	-0.17	-0.15	1	1	0	900	900	0
2/8/2025 19:00	47401	PENS_T1	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
2/8/2025 19:01	62104	ELAN_T1	0	0	0	0	0	0	-0.44	-0.45	2	2	0	1500	1500	0
2/8/2025 19:02	49803	UNIV_T1	1	1	0	6.3	6.2	-0.1	-0.85	-0.85	0	0	0	0	0	0
2/8/2025 19:03	24202	PROV_T4	0	0	0	0	0	0	-0.84	-0.84	1	1	0	1200	1200	0
2/8/2025 19:03	24206	PROV_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:04	55001	NEWP_T1	0	0	0	0	0	0	-0.93	-0.88	1	1	0	600	600	0
2/8/2025 19:04	44502	HAMI_T2	1	1	0	1.9	2.2	0.3	0	0	0	0	0	0	0	0
2/8/2025 19:04	55002	NEWP_T1	4	4	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
2/8/2025 19:04	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:05	46204	DANV_T2	89	81	-8	0.42	0.33	-0.09	0	0	0	0	0	0	0	0
2/8/2025 19:05	46203	DANV_T2	16	21	5	0.74	0.72	-0.02	-1.6	-1.56	0	0	0	0	0	0
2/8/2025 19:05	46206	DANV_T2	15	11	-4	0.45	0.51	0.06	0	0	0	0	0	0	0	0
2/8/2025 19:05	44201	POIN_T1	0	0	0	0	0	0	-3.13	-3.16	2	2	0	2400	2400	0
2/8/2025 19:05	66903	SHIL_T2	0	0	0	0	0	0	-1.21	-1.23	0	0	0	0	0	0
2/8/2025 19:06	21206	ECAR_T2	1	2	1	7.6	8	0.4	0.19	0.18	0	0	0	0	0	0
2/8/2025 19:06	60802	BUCK_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
2/8/2025 19:06	24703	FLND_T2	125	24	-101	0.58	0.79	0.21	0	0	0	0	0	0	0	0
2/8/2025 19:06	21202	ECAR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:06	24701	FLND_T2	41	50	9	1.31	1.05	-0.26	-0.8	-0.78	0	0	0	0	0	0
2/8/2025 19:06	21204	ECAR_T2	5	6	1	1.58	1.9	0.32	0	0	0	0	0	0	0	0
2/8/2025 19:06	24702	FLND_T2	14	14	0	1.33	0.52	-0.81	0	0	0	0	0	0	0	0
2/8/2025 19:07	41602	CLEV_T1	2	26	24	0.2	0.28	0.08	0	0	0	0	0	0	0	0
2/8/2025 19:07	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:07	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:07	62104	ELAN_T1	0	0	0	0	0	0	-0.9	-0.92	4	4	0	3000	3000	0
2/8/2025 19:08	45901	AUBU_T1	26	54	28	0.16	0.25	0.09	0.01	0.01	0	0	0	0	0	0
2/8/2025 19:08	45502	DERR_T2	4	5	1	0.73	0.33	-0.4	0	0	0	0	0	0	0	0
2/8/2025 19:08	46204	DANV_T2	89	81	-8	0.42	0.33	-0.09	0	0	0	0	0	0	0	0
2/8/2025 19:08	62106	ELAN_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
2/8/2025 19:08	46203	DANV_T2	16	21	5	0.74	0.72	-0.02	-1.56	-1.6	0	0	0	0	0	0
2/8/2025 19:08	29402	BELT_T1	6	5	-1	1.8	1.66	-0.14	0	0	0	0	0	0	0	0
2/8/2025 19:08	45501	DERR_T2	0	0	0	0	0	0	-0.6	-0.61	2	2	0	1800	1800	0
2/8/2025 19:08	66902	SHIL_T2	0	0	0	0	0	0	-1.9	-1.91	0	0	0	0	0	0
2/8/2025 19:08	45902	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/8/2025 19:08	46206	DANV_T2	15	11	-4	0.45	0.51	0.06	3.06	2.9	4	4	0	4200	4200	0
2/8/2025 19:09	46204	DANV_T2	89	81	-8	0.42	0.33	-0.09	0	0	0	0	0	0	0	0
2/8/2025 19:09	44301	BEAV_T2	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/8/2025 19:09	46203	DANV_T2	16	21	5	0.74	0.72	-0.02	-3.12	-3.2	0	0	0	0	0	0
2/8/2025 19:09	45502	DERR_T2	4	5	1	0.73	0.33	-0.4	0	0	0	0	0	0	0	0
2/8/2025 19:09	49803	UNIV_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
2/8/2025 19:09	45501	DERR_T2	0	0	0	0	0	0	-0.6	-0.61	2	2	0	1800	1800	0
2/8/2025 19:09	45901	AUBU_T1	26	54	28	0.16	0.25	0.09	0.01	0.01	0	0	0	0	0	0
2/8/2025 19:09	44201	POIN_T1	0	0	0	0	0	0	-1.58	-1.51	1	1	0	1200	1200	0
2/8/2025 19:09	46206	DANV_T2	15	11	-4	0.45	0.51	0.06	0	0	0	0	0	0	0	0
2/8/2025 19:09	45902	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/8/2025 19:10	41602	CLEV_T1	2	26	24	0.2	0.28	0.08	0	0	0	0	0	0	0	0
2/8/2025 19:10	22102	EDEL_T1	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
2/8/2025 19:10	24703	FLND_T2	125	24	-101	0.58	0.79	0.21	0	0	0	0	0	0	0	0
2/8/2025 19:10	65205	PRIN_T1	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
2/8/2025 19:10	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:10	60102	COCA_T1	0	0	0	0	0	0	-0.97	-1.02	2	2	0	1200	1200	0
2/8/2025 19:10	24702	FLND_T2	14	14	0	1.33	0.52	-0.81	-0.64	-0.77	1	1	0	1200	1200	0
2/8/2025 19:10	42601	TUSC_T1	61	93	32	1.02	1.14	0.12	-0.4	-0.39	2	2	0	1800	1800	0
2/8/2025 19:10	24701	FLND_T2	41	50	9	1.31	1.05	-0.26	0	0	0	0	0	0	0	0
2/8/2025 19:10	45902	AUBU_T1	0	1	1	0	0.2	0.2	0.01	0.01	1	1	0	600	600	0
2/8/2025 19:10	45901	AUBU_T1	26	54	28	0.16	0.25	0.09	0	0	0	0	0	0	0	0
2/8/2025 19:10	40101	HUNT_T2	22	25	3	0.84	0.51	-0.33	0	0	0	0	0	0	0	0
2/8/2025 19:10	60201	ATGL_T2	36	73	37	0.21	0.33	0.12	-0.3	-0.24	0	0	0	0	0	0
2/8/2025 19:10	53501	EVIL_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
2/8/2025 19:11	55002	NEWP_T1	4	4	0	0.9	1.2	0.3	-0.14	-0.15	0	0	0	0	0	0
2/8/2025 19:11	29402	BELT_T1	6	5	-1	1.8	1.66	-0.14	0	0	0	0	0	0	0	0
2/8/2025 19:11	49803	UNIV_T1	1	1	0	6.3	6.2	-0.1	-0.85	-0.89	0	0	0	0	0	0
2/8/2025 19:11	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:11	52402	GRPA_T2	32	28	-4	0.54	0.43	-0.11	0	0	0	0	0	0	0	0
2/8/2025 19:11	45901	AUBU_T1	26	54	28	0.16	0.25	0.09	0	0	0	0	0	0	0	0
2/8/2025 19:11	52403	GRPA_T2	3	1	-2	0.83	1.6	0.77	-1.3	-1.42	0	0	0	0	0	0
2/8/2025 19:11	10801	CHHI_T1	2	4	2	0.6	0.1	-0.5	-1.96	-2	3	3	0	2100	2100	0
2/8/2025 19:11	52401	GRPA_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/8/2025 19:11	45902	AUBU_T1	0	1	1	0	0.2	0.2	0.01	0.01	2	2	0	1200	1200	0
2/8/2025 19:12	45502	DERR_T2	4	5	1	0.73	0.33	-0.4	0	0	0	0	0	0	0	0
2/8/2025 19:12	46204	DANV_T2	89	81	-8	0.42	0.33	-0.09	0	0	0	0	0	0	0	0
2/8/2025 19:12	46206	DANV_T2	15	11	-4	0.45	0.51	0.06	0	0	0	0	0	0	0	0
2/8/2025 19:12	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:12	26402	INOR_T1	0	5	5	0	0	0	-1.89	-1.92	1	1	0	600	600	0
2/8/2025 19:12	63501	HEID_TBK1-2	10	13	3	0.14	0.18	0.04	-0.3	-0.36	1	1	0	900	900	0
2/8/2025 19:12	26401	INOR_T1	89	98	9	1.02	1.01	-0.01	0	0	0	0	0	0	0	0
2/8/2025 19:12	45501	DERR_T2	0	0	0	0	0	0	-1.2	-1.22	4	4	0	3600	3600	0
2/8/2025 19:12	52401	GRPA_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/8/2025 19:12	52402	GRPA_T2	32	28	-4	0.54	0.43	-0.11	0	0	0	0	0	0	0	0
2/8/2025 19:12	52403	GRPA_T2	3	1	-2	0.83	1.6	0.77	0	0	0	0	0	0	0	0
2/8/2025 19:12	46203	DANV_T2	16	21	5	0.74	0.72	-0.02	-1.56	-1.6	0	0	0	0	0	0
2/8/2025 19:13	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:13	24901	WHHA_T1	3	3	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/8/2025 19:13	45902	AUBU_T1	0	1	1	0	0.2	0.2	0.01	0.01	2	2	0	1200	1200	0
2/8/2025 19:13	16101	BING_T2	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
2/8/2025 19:13	24902	WHHA_T1	21	19	-2	1.1	0.82	-0.28	0.22	0.23	0	0	0	0	0	0
2/8/2025 19:13	66901	SHIL_T2	0	0	0	0	0	0	-3.21	-3.18	2	2	0	2400	2400	0
2/8/2025 19:13	60201	ATGL_T2	36	73	37	0.21	0.33	0.12	-0.3	-0.24	0	0	0	0	0	0
2/8/2025 19:13	43202	MVIL_T2	1	2	1	1.2	1.75	0.55	0	0	0	0	0	0	0	0
2/8/2025 19:13	43201	MVIL_T2	0	0	0	0	0	0	-1.26	-1.26	0	0	0	0	0	0
2/8/2025 19:13	45901	AUBU_T1	26	54	28	0.16	0.25	0.09	0	0	0	0	0	0	0	0
2/8/2025 19:13	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:13	44801	EDAN_T2	1	1	0	0.6	0	-0.6	-0.35	-0.35	0	0	0	0	0	0
2/8/2025 19:13	16102	BING_T2	1	1	0	2.9	3.3	0.4	0	0	0	0	0	0	0	0
2/8/2025 19:14	24102	EHAZ_T1	9	8	-1	0.68	0.66	-0.02	-0.31	-0.38	0	0	0	0	0	0
2/8/2025 19:14	63501	HEID_TBK1-2	10	13	3	0.14	0.18	0.04	-0.3	-0.36	1	1	0	900	900	0
2/8/2025 19:14	24103	EHAZ_T1	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/8/2025 19:14	26402	INOR_T1	0	5	5	0	0	0	-1.89	-1.92	1	1	0	600	600	0
2/8/2025 19:14	66902	SHIL_T2	0	0	0	0	0	0	-1.9	-1.91	0	0	0	0	0	0
2/8/2025 19:14	43202	MVIL_T2	1	2	1	1.2	1.75	0.55	-0.56	-0.6	0	0	0	0	0	0
2/8/2025 19:14	26401	INOR_T1	89	98	9	1.02	1.01	-0.01	0.75	0.73	0	0	0	0	0	0
2/8/2025 19:14	24101	EHAZ_T1	61	73	12	1.98	1.85	-0.13	0	0	0	0	0	0	0	0
2/8/2025 19:14	60201	ATGL_T2	36	73	37	0.21	0.33	0.12	-0.3	-0.24	0	0	0	0	0	0
2/8/2025 19:14	60301	TWVA_T2	0	0	0	0	0	0	-6.41	-6.47	4	4	0	3600	3600	0
2/8/2025 19:14	24105	EHAZ_T1	26	17	-9	1.8	2.29	0.49	0	0	0	0	0	0	0	0
2/8/2025 19:15	21202	ECAR_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
2/8/2025 19:15	60102	COCA_T1	0	0	0	0	0	0	-0.97	-1.02	2	2	0	1200	1200	0
2/8/2025 19:15	44201	POIN_T1	0	0	0	0	0	0	-1.58	-1.51	1	1	0	1200	1200	0
2/8/2025 19:15	52401	GRPA_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/8/2025 19:15	66903	SHIL_T2	0	0	0	0	0	0	-1.23	-1.22	0	0	0	0	0	0
2/8/2025 19:15	13303	ORVI_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
2/8/2025 19:15	52403	GRPA_T2	1	17	16	1.6	1.8	0.2	-1.3	-1.42	0	0	0	0	0	0
2/8/2025 19:15	24901	WHHA_T1	2	3	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
2/8/2025 19:15	21206	ECAR_T2	1	2	1	8	3.75	-4.25	0.18	0.16	0	0	0	0	0	0
2/8/2025 19:15	24902	WHHA_T1	19	16	-3	0.88	0.73	-0.15	0.22	0.23	0	0	0	0	0	0
2/8/2025 19:15	10801	CHHI_T1	1	9	8	0.1	0.35	0.25	-1.96	-2	3	3	0	2100	2100	0
2/8/2025 19:15	52402	GRPA_T2	27	33	6	0.78	0.37	-0.41	0	0	0	0	0	0	0	0
2/8/2025 19:15	60301	TWVA_T2	0	0	0	0	0	0	-3.2	-3.23	2	2	0	1800	1800	0
2/8/2025 19:15	13302	ORVI_T2	43	4	-39	0.16	0.15	-0.01	0.97	0.97	0	0	0	0	0	0
2/8/2025 19:15	63501	HEID_TBK1-2	13	1	-12	0.18	0.3	0.12	-0.3	-0.36	1	1	0	900	900	0
2/8/2025 19:15	44202	POIN_T2	0	0	0	0	0	0	-0.88	-0.9	1	1	0	1200	1200	0
2/8/2025 19:15	21204	ECAR_T2	5	6	1	1.9	2.28	0.38	0	0	0	0	0	0	0	0
2/8/2025 19:15	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/8/2025 19:16	20602	GRWO_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/8/2025 19:16	46204	DANV_T2	80	35	-45	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
2/8/2025 19:16	20603	GRWO_T2	25	30	5	1.12	1.41	0.29	0.52	0.54	0	0	0	0	0	0
2/8/2025 19:16	27901	BCRK_T1	1	2	1	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
2/8/2025 19:16	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:16	41602	CLEV_T1	14	25	11	0.32	0.26	-0.06	0	0	0	0	0	0	0	0
2/8/2025 19:16	46206	DANV_T2	9	12	3	0.6	0.17	-0.43	0	0	0	0	0	0	0	0
2/8/2025 19:16	26402	INOR_T1	0	5	5	0	0.33	0.33	0	0	0	0	0	0	0	0
2/8/2025 19:16	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:16	46203	DANV_T2	19	21	2	0.73	0.72	-0.01	-1.56	-1.6	0	0	0	0	0	0
2/8/2025 19:16	25402	LAHA_T2	36	74	38	0.83	0.69	-0.14	-0.42	-0.46	0	0	0	0	0	0
2/8/2025 19:16	45901	AUBU_T1	48	44	-4	0.23	0.25	0.02	0	0	0	0	0	0	0	0
2/8/2025 19:16	49803	UNIV_T1	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
2/8/2025 19:16	29402	BELT_T1	5	5	0	1.68	3.2	1.52	0	0	0	0	0	0	0	0
2/8/2025 19:16	66505	SMAN_T2	3	1	-2	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
2/8/2025 19:16	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/8/2025 19:16	49804	UNIV_T1	0	0	0	0	0	0	0.55	0.57	0	0	0	0	0	0
2/8/2025 19:16	20601	GRWO_T2	2	4	2	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/8/2025 19:16	26401	INOR_T1	91	100	9	1.11	1.06	-0.05	0.75	0.73	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/8/2025 19:16	45902	AUBU_T1	1	1	0	0.2	0.1	-0.1	0.01	0.01	1	1	0	600	600	0
2/8/2025 19:17	24901	WHHA_T1	2	3	1	0.3	0.25	-0.05	-0.63	-0.62	0	0	0	0	0	0
2/8/2025 19:17	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:17	66902	SHIL_T2	0	0	0	0	0	0	-1.9	-1.91	0	0	0	0	0	0
2/8/2025 19:17	24902	WHHA_T1	19	16	-3	0.88	0.73	-0.15	0	0	0	0	0	0	0	0
2/8/2025 19:18	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/8/2025 19:18	52401	GRPA_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/8/2025 19:18	58401	MORO_T1	0	0	0	0	0	0	-1.67	-1.6	2	2	0	1200	1200	0
2/8/2025 19:18	52403	GRPA_T2	1	17	16	1.6	1.8	0.2	-1.3	-1.42	0	0	0	0	0	0
2/8/2025 19:18	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/8/2025 19:18	52402	GRPA_T2	27	33	6	0.78	0.37	-0.41	0	0	0	0	0	0	0	0
2/8/2025 19:18	60801	BUCK_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
2/8/2025 19:19	24901	WHHA_T1	2	3	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
2/8/2025 19:19	45802	HEGI_T2	49	49	0	1.43	1.58	0.15	0	0	0	0	0	0	0	0
2/8/2025 19:19	24902	WHHA_T1	19	16	-3	0.88	0.73	-0.15	0.22	0.23	0	0	0	0	0	0
2/8/2025 19:19	10401	LIGA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:19	60201	ATGL_T2	61	68	7	0.27	0.33	0.06	0	0	0	0	0	0	0	0
2/8/2025 19:20	52401	GRPA_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/8/2025 19:20	53501	EVIL_T2	1	2	1	0.8	0.35	-0.45	-1.19	-1.16	1	1	0	600	600	0
2/8/2025 19:20	52403	GRPA_T2	1	17	16	1.6	1.8	0.2	-1.3	-1.42	0	0	0	0	0	0
2/8/2025 19:20	44202	POIN_T2	0	0	0	0	0	0	-0.88	-0.9	1	1	0	1200	1200	0
2/8/2025 19:20	63501	HEID_TBK1-2	13	1	-12	0.18	0.3	0.12	-0.3	-0.36	1	1	0	900	900	0
2/8/2025 19:20	52402	GRPA_T2	27	33	6	0.78	0.37	-0.41	0	0	0	0	0	0	0	0
2/8/2025 19:20	43202	MVIL_T2	2	4	2	1.95	2.7	0.75	-0.56	-0.6	0	0	0	0	0	0
2/8/2025 19:20	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/8/2025 19:20	40602	PIGR_T1	0	0	0	0	0	0	-1.67	-1.7	1	1	0	600	600	0
2/8/2025 19:20	67201	TEHI_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
2/8/2025 19:20	40603	PIGR_T1	2	3	1	0.55	0.15	-0.4	0	0	0	0	0	0	0	0
2/8/2025 19:21	44201	POIN_T1	0	0	0	0	0	0	-1.51	-1.66	1	1	0	1200	1200	0
2/8/2025 19:21	11102	EGYP_T1	7	6	-1	0.39	0	-0.39	0	0	0	0	0	0	0	0
2/8/2025 19:21	66903	SHIL_T2	0	0	0	0	0	0	-2.44	-2.46	0	0	0	0	0	0
2/8/2025 19:21	13303	ORVI_T1	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
2/8/2025 19:21	11103	EGYP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:21	11104	EGYP_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	900	900	0
2/8/2025 19:22	46203	DANV_T2	19	21	2	0.73	0.72	-0.01	0	0	0	0	0	0	0	0
2/8/2025 19:22	64203	KINZ_T1	0	0	0	0	0	0	-0.46	-0.45	1	1	0	600	600	0
2/8/2025 19:22	46206	DANV_T2	9	12	3	0.6	0.17	-0.43	1.45	1.47	2	2	0	2100	2100	0
2/8/2025 19:22	44201	POIN_T1	0	0	0	0	0	0	-1.51	-1.66	1	1	0	1200	1200	0
2/8/2025 19:22	22602	KIMB_T1	0	0	0	0	0	0	0.26	0.21	0	0	0	0	0	0
2/8/2025 19:22	46204	DANV_T2	80	35	-45	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
2/8/2025 19:22	64202	KINZ_T1	1	1	0	1.6	1.1	-0.5	0	0	0	0	0	0	0	0
2/8/2025 19:22	64204	KINZ_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
2/8/2025 19:23	11102	EGYP_T1	7	6	-1	0.39	0	-0.39	0	0	0	0	0	0	0	0
2/8/2025 19:23	66901	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:23	46204	DANV_T2	80	35	-45	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
2/8/2025 19:23	12006	HATF_T1	2	3	1	0.7	0.7	0	0	0	0	0	0	0	0	0
2/8/2025 19:23	11104	EGYP_T1	0	0	0	0	0	0	-0.46	-0.47	1	1	0	900	900	0
2/8/2025 19:23	13105	NHAM_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:23	46203	DANV_T2	19	21	2	0.73	0.72	-0.01	-1.6	-1.6	0	0	0	0	0	0
2/8/2025 19:23	11103	EGYP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:23	46206	DANV_T2	9	12	3	0.6	0.17	-0.43	0	0	0	0	0	0	0	0
2/8/2025 19:23	12005	HATF_T1	2	2	0	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
2/8/2025 19:23	12003	HATF_T1	0	0	0	0	0	0	0.82	0.85	0	0	0	0	0	0
2/8/2025 19:23	13103	NHAM_T2	3	3	0	2.33	2.27	-0.06	-1.56	-1.57	1	1	0	600	600	0
2/8/2025 19:24	58401	MORO_T1	0	0	0	0	0	0	-1.6	-1.6	2	2	0	1200	1200	0
2/8/2025 19:24	46301	ROHR_T1	3	5	2	2.17	2.1	-0.07	0	0	0	0	0	0	0	0
2/8/2025 19:24	46302	ROHR_T1	4	4	0	0.23	0.1	-0.13	-0.32	-0.34	0	0	0	0	0	0
2/8/2025 19:24	21203	ECAR_T1	1	3	2	1.1	0.6	-0.5	-0.46	-0.47	0	0	0	0	0	0
2/8/2025 19:25	16102	BING_T2	1	1	0	1.9	3.3	1.4	0	0	0	0	0	0	0	0
2/8/2025 19:25	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:25	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:25	22602	KIMB_T1	0	0	0	0	0	0	0.26	0.21	0	0	0	0	0	0
2/8/2025 19:25	13303	ORVI_T1	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
2/8/2025 19:26	46204	DANV_T2	80	35	-45	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
2/8/2025 19:26	46206	DANV_T2	9	12	3	0.6	0.17	-0.43	1.45	1.47	2	2	0	2100	2100	0
2/8/2025 19:26	46203	DANV_T2	19	21	2	0.73	0.72	-0.01	0	0	0	0	0	0	0	0
2/8/2025 19:27	10801	CHHI_T1	1	9	8	0.1	0.35	0.25	-2	-1.97	3	3	0	2100	2100	0
2/8/2025 19:27	14103	TRUM_T2	8	13	5	1.08	0.71	-0.37	0	0	0	0	0	0	0	0
2/8/2025 19:27	14102	TRUM_T2	1	1	0	4.4	4.5	0.1	-1.37	-1.38	3	3	0	2400	2400	0
2/8/2025 19:29	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:33	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2025 19:45	24702	FLND_T2	13	15	2	1.22	1.08	-0.14	0	0	0	0	0	0	0	0
2/8/2025 19:45	24703	FLND_T2	11	24	13	0.39	0.31	-0.08	-0.01	-0.01	0	0	0	0	0	0
2/8/2025 19:45	24701	FLND_T2	54	54	0	1.34	1.02	-0.32	0	0	0	0	0	0	0	0
2/8/2025 20:02	66902	SHIL_T2	0	0	0	0	0	0	-3.84	-3.88	0	0	0	0	0	0
2/8/2025 21:45	45901	AUBU_T1	84	256	172	0.29	0.43	0.14	0.01	0.01	0	0	0	0	0	0
2/8/2025 21:45	45902	AUBU_T1	3	15	12	0.2	0.39	0.19	0	0	0	0	0	0	0	0
2/9/2025 8:32	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 8:32	64204	KINZ_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/9/2025 8:32	64203	KINZ_T1	0	0	0	0	0	0	-0.51	-0.48	1	1	0	600	600	0
2/9/2025 8:34	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 8:34	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 8:34	64204	KINZ_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/9/2025 8:36	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 8:46	63804	HEMP_T1	1	1	0	6.2	6.4	0.2	0.78	0.83	0	0	0	0	0	0
2/9/2025 8:50	64101	REFR_T1	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
2/9/2025 8:52	64101	REFR_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
2/9/2025 8:53	64101	REFR_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
2/9/2025 8:54	64101	REFR_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
2/9/2025 8:55	64101	REFR_T1	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
2/9/2025 9:00	54601	SUMM_T2	0	0	0	0	0	0	-1.73	-1.78	2	2	0	2100	2100	0
2/9/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
2/9/2025 9:00	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 9:00	52403	GRPA_T2	14	16	2	0.48	0.5	0.02	0	0	0	0	0	0	0	0
2/9/2025 9:00	44201	POIN_T1	0	0	0	0	0	0	-2.01	-2.02	1	1	0	1200	1200	0
2/9/2025 9:00	52402	GRPA_T2	25	39	14	0.57	0.61	0.04	0	0	0	0	0	0	0	0
2/9/2025 9:00	52401	GRPA_T2	1	2	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
2/9/2025 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
2/9/2025 9:08	66504	SMAN_T2	0	0	0	0	0	0	-3.47	-3.47	2	2	0	2400	2400	0
2/9/2025 9:21	65702	RVIL_T2	0	0	0	0	0	0	-1.49	-1.45	0	0	0	0	0	0
2/9/2025 9:54	65602	QVIL_T2	2	3	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
2/9/2025 9:54	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 9:55	65601	QVIL_T2	0	0	0	0	0	0	-1.04	-1.04	1	1	0	900	900	0
2/9/2025 9:55	65602	QVIL_T2	2	3	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
2/9/2025 10:01	61001	DONV_T1	0	0	0	0	0	0	0.57	0.73	0	0	0	0	0	0
2/9/2025 10:01	64203	KINZ_T1	0	2	2	0	0	0	-0.46	-0.45	1	1	0	600	600	0
2/9/2025 10:01	64204	KINZ_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
2/9/2025 10:04	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 10:07	65205	PRIN_T1	1	2	1	1.4	1.4	0	0	0	0	0	0	0	0	0
2/9/2025 10:07	65202	PRIN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/9/2025 10:15	40501	CRES_T2	16	16	0	0.53	0.46	-0.07	0	0	0	0	0	0	0	0
2/9/2025 10:15	40502	CRES_T2	89	80	-9	0.95	1.01	0.06	0.09	0.09	0	0	0	0	0	0
2/9/2025 10:21	65602	QVIL_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
2/9/2025 10:21	65603	QVIL_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
2/9/2025 10:22	65702	RVIL_T2	0	0	0	0	0	0	-1.42	-1.42	0	0	0	0	0	0
2/9/2025 10:22	44201	POIN_T1	0	43	43	0	0.16	0.16	-2.02	-2.04	1	1	0	1200	1200	0
2/9/2025 10:23	65602	QVIL_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
2/9/2025 10:23	65603	QVIL_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
2/9/2025 10:25	24902	WHHA_T1	93	19	-74	0.91	0.83	-0.08	0.2	0.24	0	0	0	0	0	0
2/9/2025 10:25	58006	WCAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 10:25	24901	WHHA_T1	19	2	-17	0.39	0	-0.39	0	0	0	0	0	0	0	0
2/9/2025 10:30	61001	DONV_T1	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
2/9/2025 10:31	61001	DONV_T1	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
2/9/2025 10:32	44505	HAMI_T2	3	3	0	0.17	0.13	-0.04	-0.31	-0.33	0	0	0	0	0	0
2/9/2025 10:32	44502	HAMI_T2	1	1	0	3	2.9	-0.1	0	0	0	0	0	0	0	0
2/9/2025 10:33	44505	HAMI_T2	3	3	0	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
2/9/2025 10:33	44502	HAMI_T2	1	1	0	3	2.9	-0.1	0	0	0	0	0	0	0	0
2/9/2025 10:40	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 10:49	64204	KINZ_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/9/2025 10:49	64201	KINZ_T1	0	0	0	0	0	0	-0.81	-0.74	3	3	0	1500	1500	0
2/9/2025 10:49	64202	KINZ_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/9/2025 10:55	14702	TREX_T2	0	0	0	0	0	0	0.58	0.57	0	0	0	0	0	0
2/9/2025 11:04	63501	HEID_TBK1-2	2	18	16	0.25	0.2	-0.05	-0.52	-0.44	1	1	0	900	900	0
2/9/2025 11:12	40504	CRES_T1	0	0	0	0	0	0	-1.85	-1.87	0	0	0	0	0	0
2/9/2025 11:22	55002	NEWP_T1	6	4	-2	0.5	0.58	0.08	-0.22	-0.21	0	0	0	0	0	0
2/9/2025 11:27	10801	CHHI_T1	8	7	-1	0.96	0.65	-0.31	-1.96	-1.96	3	3	0	2100	2100	0
2/9/2025 11:28	53501	EVIL_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
2/9/2025 11:33	10705	CATA_T2	0	0	0	0	0	0	-4.04	-4.22	2	2	0	1800	1800	0
2/9/2025 11:49	10702	CATA_T2	0	0	0	0	0	0	-0.86	-0.81	0	0	0	0	0	0
2/9/2025 11:52	47101	MARL_T1	157	163	6	1.39	1.58	0.19	-1.07	-1.08	1	1	0	600	600	0
2/9/2025 11:57	42601	TUSC_T1	82	105	23	1.27	1.48	0.21	-0.34	-0.34	2	2	0	1800	1800	0
2/9/2025 11:59	29402	BELT_T1	99	50	-49	0.86	0.67	-0.19	0	0	0	0	0	0	0	0
2/9/2025 12:00	51804	EBEN_T2	0	0	0	0	0	0	-0.18	-0.17	1	1	0	900	900	0
2/9/2025 12:00	51802	EBEN_T2	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/9/2025 12:01	21206	ECAR_T2	2	1	-1	3.65	7.6	3.95	0.11	0.14	0	0	0	0	0	0
2/9/2025 12:01	21204	ECAR_T2	14	12	-2	1.16	0.51	-0.65	0	0	0	0	0	0	0	0
2/9/2025 12:06	52502	PROG_T2	0	0	0	0	0	0	-0.43	-0.44	1	1	0	900	900	0
2/9/2025 12:07	60502	NMAN_T2	0	1	1	0	0.2	0.2	-0.51	-0.53	0	0	0	0	0	0
2/9/2025 12:09	64101	REFR_T1	0	0	0	0	0	0	0.09	0.03	0	0	0	0	0	0
2/9/2025 12:10	64101	REFR_T1	0	0	0	0	0	0	0.09	0.03	0	0	0	0	0	0
2/9/2025 12:11	52502	PROG_T2	0	0	0	0	0	0	-0.44	-0.42	1	1	0	900	900	0
2/9/2025 12:13	45901	AUBU_T1	2	37	35	0.2	0.25	0.05	0.01	0.01	0	0	0	0	0	0
2/9/2025 12:13	64101	REFR_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
2/9/2025 12:15	51804	EBEN_T2	0	0	0	0	0	0	-0.17	-0.17	1	1	0	900	900	0
2/9/2025 12:15	51802	EBEN_T2	0	2	2	0	0.1	0.1	-0.38	-0.48	1	1	0	900	900	0
2/9/2025 12:16	61506	EPET_T2	0	0	0	0	0	0	-1.2	-1.17	1	1	0	900	900	0
2/9/2025 12:17	52402	GRPA_T2	2	3	1	0.45	0.75	0.3	0	0	0	0	0	0	0	0
2/9/2025 12:17	51802	EBEN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/9/2025 12:17	52403	GRPA_T2	3	3	0	2.1	1.8	-0.3	-1.32	-1.34	0	0	0	0	0	0
2/9/2025 12:17	51804	EBEN_T2	0	0	0	0	0	0	-0.17	-0.17	1	1	0	900	900	0
2/9/2025 12:17	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 12:22	66505	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/9/2025 12:22	66504	SMAN_T2	0	0	0	0	0	0	-1.74	-0.41	1	0	-1	1200	0	-1200

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/9/2025 12:23	66504	SMAN_T2	0	0	0	0	0	0	-1.74	-0.41	1	0	-1	1200	0	-1200
2/9/2025 12:23	66505	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/9/2025 12:26	66504	SMAN_T2	0	0	0	0	0	0	-1.74	-0.41	1	0	-1	1200	0	-1200
2/9/2025 12:26	66505	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/9/2025 12:27	14702	TREX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 12:28	42701	AUGU_T1	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
2/9/2025 12:30	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/9/2025 12:30	66503	SMAN_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
2/9/2025 12:31	44505	HAMI_T2	3	3	0	0.17	0.13	-0.04	-0.32	-0.33	0	0	0	0	0	0
2/9/2025 12:31	44502	HAMI_T2	1	1	0	3.1	3	-0.1	0	0	0	0	0	0	0	0
2/9/2025 12:31	44501	HAMI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/9/2025 12:35	58401	MORO_T1	0	0	0	0	0	0	-1.05	-1.11	1	1	0	600	600	0
2/9/2025 12:35	44201	POIN_T1	77	78	1	0.25	0.2	-0.05	-1.97	-1.96	1	1	0	1200	1200	0
2/9/2025 12:35	60502	NMAN_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/9/2025 12:35	63201	MGTN_T2	0	0	0	0	0	0	0.18	0.19	1	1	0	600	600	0
2/9/2025 12:35	63202	MGTN_T2	2	3	1	5.3	7.1	1.8	0	0	0	0	0	0	0	0
2/9/2025 12:36	60502	NMAN_T2	1	1	0	0.2	0.4	0.2	-0.54	-0.54	0	0	0	0	0	0
2/9/2025 12:38	58401	MORO_T1	0	0	0	0	0	0	-1.11	-1.11	1	1	0	600	600	0
2/9/2025 12:39	44201	POIN_T1	77	78	1	0.25	0.2	-0.05	-1.96	-1.96	1	1	0	1200	1200	0
2/9/2025 12:39	65701	RVIL_T1	0	0	0	0	0	0	-1.03	-1.04	0	0	0	0	0	0
2/9/2025 12:41	14602	SWHI_T1	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/9/2025 12:41	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 12:41	14601	SWHI_T1	0	0	0	0	0	0	-2.64	-2.66	0	0	0	0	0	0
2/9/2025 12:41	60201	ATGL_T2	0	5	5	0	0.1	0.1	-0.37	-0.35	0	0	0	0	0	0
2/9/2025 12:50	58401	MORO_T1	0	0	0	0	0	0	-1.11	-1.11	1	1	0	600	600	0
2/9/2025 12:52	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.92	-0.93	1	1	0	600	600	0
2/9/2025 12:52	55002	NEWP_T1	3	4	1	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
2/9/2025 12:54	58401	MORO_T1	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
2/9/2025 12:54	65702	RVIL_T2	0	0	0	0	0	0	-2.83	-2.77	0	0	0	0	0	0
2/9/2025 12:55	65702	RVIL_T2	0	0	0	0	0	0	-1.41	-1.39	0	0	0	0	0	0
2/9/2025 12:58	46206	DANV_T2	13	15	2	0.43	0.47	0.04	0	0	0	0	0	0	0	0
2/9/2025 12:58	46203	DANV_T2	59	89	30	0.59	0.66	0.07	-3	-3.03	0	0	0	0	0	0
2/9/2025 12:58	46204	DANV_T2	47	20	-27	0.37	0.43	0.06	0	0	0	0	0	0	0	0
2/9/2025 12:59	46204	DANV_T2	47	20	-27	0.37	0.43	0.06	0	0	0	0	0	0	0	0
2/9/2025 12:59	46206	DANV_T2	13	15	2	0.43	0.47	0.04	1.22	0.95	2	2	0	2100	2100	0
2/9/2025 12:59	46203	DANV_T2	59	89	30	0.59	0.66	0.07	0	0	0	0	0	0	0	0
2/9/2025 13:01	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 13:01	45501	DERR_T2	0	2	2	0	0	0	-0.5	-0.52	2	2	0	1800	1800	0
2/9/2025 13:12	40504	CRES_T1	0	0	0	0	0	0	-1.88	-1.91	0	0	0	0	0	0
2/9/2025 13:12	46206	DANV_T2	13	9	-4	0.79	0.63	-0.16	0	0	0	0	0	0	0	0
2/9/2025 13:12	46204	DANV_T2	20	4	-16	0.31	0.2	-0.11	0	0	0	0	0	0	0	0
2/9/2025 13:12	46203	DANV_T2	88	42	-46	0.66	0.5	-0.16	-3.03	-2.07	0	0	0	0	0	0
2/9/2025 13:13	10805	CHHI_T2	7	7	0	2.57	2	-0.57	-1.48	-1.45	1	1	0	600	600	0
2/9/2025 13:14	46206	DANV_T2	13	9	-4	0.79	0.63	-0.16	0	0	0	0	0	0	0	0
2/9/2025 13:14	46203	DANV_T2	88	42	-46	0.66	0.5	-0.16	-3.03	-2.07	0	0	0	0	0	0
2/9/2025 13:14	46204	DANV_T2	20	4	-16	0.31	0.2	-0.11	0	0	0	0	0	0	0	0
2/9/2025 13:23	13303	ORVI_T1	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
2/9/2025 13:29	62106	ELAN_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
2/9/2025 13:30	45502	DERR_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/9/2025 13:30	45501	DERR_T2	2	6	4	0.2	0.55	0.35	-0.51	-0.51	2	2	0	1800	1800	0
2/9/2025 13:37	13904	SEID_T1	28	22	-6	1.52	0.82	-0.7	0	0	0	0	0	0	0	0
2/9/2025 13:37	13905	SEID_T1	0	0	0	0	0	0	-0.92	-0.9	1	1	0	1200	1200	0
2/9/2025 13:43	45501	DERR_T2	2	6	4	0.2	0.55	0.35	-0.51	-0.56	2	2	0	1800	1800	0
2/9/2025 13:43	45502	DERR_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/9/2025 13:46	52404	GRPA_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
2/9/2025 13:46	52403	GRPA_T2	4	2	-2	1.65	2	0.35	0	0	0	0	0	0	0	0
2/9/2025 13:46	61305	EARL_T1	0	0	0	0	0	0	0.13	0.13	2	2	0	1500	1500	0
2/9/2025 13:46	52402	GRPA_T2	27	22	-5	0.36	0.17	-0.19	0	0	0	0	0	0	0	0
2/9/2025 13:47	52403	GRPA_T2	4	2	-2	1.65	2	0.35	-0.68	-0.68	0	0	0	0	0	0
2/9/2025 13:47	52402	GRPA_T2	27	22	-5	0.36	0.17	-0.19	0	0	0	0	0	0	0	0
2/9/2025 13:48	47103	MARL_T2	218	289	71	0.55	0.69	0.14	-0.44	-0.45	0	0	0	0	0	0
2/9/2025 13:48	47102	MARL_T2	135	152	17	0.67	0.82	0.15	0	0	0	0	0	0	0	0
2/9/2025 13:50	52402	GRPA_T2	27	22	-5	0.36	0.17	-0.19	0	0	0	0	0	0	0	0
2/9/2025 13:50	52404	GRPA_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
2/9/2025 13:50	52403	GRPA_T2	4	2	-2	1.65	2	0.35	-0.68	-0.68	0	0	0	0	0	0
2/9/2025 13:52	65702	RVIL_T2	0	0	0	0	0	0	-1.4	-1.47	0	0	0	0	0	0
2/9/2025 13:55	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 13:58	45901	AUBU_T1	47	104	57	0.29	0.34	0.05	0	0	0	0	0	0	0	0
2/9/2025 13:58	45902	AUBU_T1	6	10	4	0.25	0.26	0.01	0.01	0.01	1	1	0	600	600	0
2/9/2025 14:05	40601	PIGR_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/9/2025 14:05	44202	POIN_T2	0	0	0	0	0	0	-0.9	-0.92	1	1	0	1200	1200	0
2/9/2025 14:06	40601	PIGR_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/9/2025 14:07	44201	POIN_T1	104	127	23	0.28	0.31	0.03	-1.99	-1.99	1	1	0	1200	1200	0
2/9/2025 14:07	40601	PIGR_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/9/2025 14:08	40601	PIGR_T1	0	3	3	0	0.1	0.1	-0.05	-0.09	0	0	0	0	0	0
2/9/2025 14:09	44201	POIN_T1	104	127	23	0.28	0.31	0.03	-3.99	-3.97	2	2	0	2400	2400	0
2/9/2025 14:12	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/9/2025 14:14	61001	DONV_T1	0	0	0	0	0	0	1.41	1.36	0	0	0	0	0	0
2/9/2025 14:15	16102	BING_T2	1	1	0	5	4.8	-0.2	0	0	0	0	0	0	0	0
2/9/2025 14:15	10801	CHHI_T1	1	2	1	2.1	1.1	-1	-1.97	-2.05	3	3	0	2100	2100	0
2/9/2025 14:15	16103	BING_T2	2	2	0	2.35	1.1	-1.25	0	0	0	0	0	0	0	0
2/9/2025 14:15	61001	DONV_T1	0	0	0	0	0	0	0.7	0.68	0	0	0	0	0	0
2/9/2025 14:17	41001	LAUR_T2	73	81	8	0.51	0.7	0.19	0	0	0	0	0	0	0	0
2/9/2025 14:17	41002	LAUR_T2	39	48	9	0.51	0.67	0.16	0	0	0	0	0	0	0	0
2/9/2025 14:18	52402	GRPA_T2	7	15	8	0.16	0.58	0.42	0	0	0	0	0	0	0	0
2/9/2025 14:18	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 14:18	52403	GRPA_T2	2	4	2	2	0.6	-1.4	0	0	0	0	0	0	0	0
2/9/2025 14:19	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 14:19	52403	GRPA_T2	2	4	2	2	0.6	-1.4	0	0	0	0	0	0	0	0
2/9/2025 14:19	52402	GRPA_T2	7	15	8	0.16	0.58	0.42	0	0	0	0	0	0	0	0
2/9/2025 14:24	57401	SPAN_T1	0	0	0	0	0	0	-2.74	-2.74	2	2	0	1200	1200	0
2/9/2025 14:25	66502	SMAN_T2	0	0	0	0	0	0	-0.24	-0.16	0	0	0	0	0	0
2/9/2025 14:25	66505	SMAN_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/9/2025 14:25	57401	SPAN_T1	0	0	0	0	0	0	-1.37	-1.37	1	1	0	600	600	0
2/9/2025 14:26	60201	ATGL_T2	10	23	13	0.15	0.17	0.02	-0.29	-0.32	0	0	0	0	0	0
2/9/2025 14:27	57401	SPAN_T1	0	0	0	0	0	0	-1.37	-1.37	1	1	0	600	600	0
2/9/2025 14:29	42701	AUGU_T1	1	12	11	0.1	0.22	0.12	0	0	2	2	0	1800	1800	0
2/9/2025 14:39	14601	SWHI_T1	0	0	0	0	0	0	-1.35	-1.35	0	0	0	0	0	0
2/9/2025 14:39	14103	TRUM_T2	8	4	-4	0.2	0.23	0.03	0	0	0	0	0	0	0	0
2/9/2025 14:39	14102	TRUM_T2	0	0	0	0	0	0	-1.45	-1.47	3	3	0	2400	2400	0
2/9/2025 14:39	14602	SWHI_T1	3	3	0	1.77	0	-1.77	0	0	0	0	0	0	0	0
2/9/2025 14:40	67201	TEHI_T1	0	0	0	0	0	0	0.07	0	0	0	0	0	0	0
2/9/2025 14:41	60201	ATGL_T2	9	22	13	0.14	0.18	0.04	0	0	0	0	0	0	0	0
2/9/2025 14:41	14601	SWHI_T1	0	0	0	0	0	0	-2.7	-2.7	0	0	0	0	0	0
2/9/2025 14:41	14602	SWHI_T1	3	3	0	1.77	0	-1.77	0	0	0	0	0	0	0	0
2/9/2025 14:42	46203	DANV_T2	12	13	1	0.29	0.37	0.08	-2.11	-2.08	0	0	0	0	0	0
2/9/2025 14:42	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 14:42	60201	ATGL_T2	9	22	13	0.14	0.18	0.04	-0.32	-0.36	0	0	0	0	0	0
2/9/2025 14:44	64101	REFR_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
2/9/2025 14:44	45501	DERR_T2	0	0	0	0	0	0	-0.6	-0.6	2	2	0	1800	1800	0
2/9/2025 14:46	46203	DANV_T2	13	13	0	0.33	0.35	0.02	-2.11	-2.08	0	0	0	0	0	0
2/9/2025 14:46	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/9/2025 14:52	47401	PENS_T1	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
2/9/2025 14:55	58102	NEKI_T1	1	1	0	1.1	1.1	0	-1.18	-1.16	1	1	0	1200	1200	0
2/9/2025 14:55	58101	NEKI_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/9/2025 14:55	42701	AUGU_T1	12	14	2	0.22	0.27	0.05	0	0	2	2	0	1800	1800	0
2/9/2025 15:02	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 15:02	53501	EVIL_T2	1	1	0	0.9	0.6	-0.3	-0.67	-0.64	0	0	0	0	0	0
2/9/2025 15:02	40702	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/9/2025 15:12	20402	ASHF_T2	3	6	3	0.23	0	-0.23	0	0	0	0	0	0	0	0
2/9/2025 15:12	20403	ASHF_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 15:12	20401	ASHF_T2	2	0	-2	0.6	0	-0.6	-0.22	-0.25	1	1	0	600	600	0
2/9/2025 15:17	63501	HEID_TBK1-2	32	38	6	0.37	0.49	0.12	-0.51	-0.47	1	1	0	900	900	0
2/9/2025 15:18	44502	HAMI_T2	1	1	0	2.9	2.9	0	0	0	0	0	0	0	0	0
2/9/2025 15:18	44503	HAMI_T2	0	0	0	0	0	0	-2.1	-2.06	1	1	0	1200	1200	0
2/9/2025 15:18	44505	HAMI_T2	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
2/9/2025 15:24	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 15:24	40601	PIGR_T1	0	9	9	0	0.13	0.13	0	0	0	0	0	0	0	0
2/9/2025 15:24	40602	PIGR_T1	0	0	0	0	0	0	-0.5	-0.46	1	1	0	600	600	0
2/9/2025 15:30	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 15:30	62105	ELAN_T1	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
2/9/2025 15:39	44203	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 15:39	44202	POIN_T2	0	0	0	0	0	0	-0.92	-0.91	1	1	0	1200	1200	0
2/9/2025 15:41	16103	BING_T2	2	2	0	1	1.75	0.75	0	0	0	0	0	0	0	0
2/9/2025 15:41	16101	BING_T2	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
2/9/2025 15:41	16102	BING_T2	1	0	-1	3.6	4.8	1.2	0	0	0	0	0	0	0	0
2/9/2025 15:48	63501	HEID_TBK1-2	36	37	1	0.46	0.37	-0.09	-0.49	-0.51	1	1	0	900	900	0
2/9/2025 15:50	55002	NEWP_T1	3	5	2	0.67	0.56	-0.11	-0.18	-0.18	0	0	0	0	0	0
2/9/2025 15:53	40601	PIGR_T1	9	12	3	0.13	0.16	0.03	0	0	0	0	0	0	0	0
2/9/2025 15:53	40603	PIGR_T1	1	0	-1	1.6	0	-1.6	0	0	0	0	0	0	0	0
2/9/2025 15:54	65802	RTWN_T2	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
2/9/2025 15:55	40603	PIGR_T1	1	0	-1	1.6	0	-1.6	0	0	0	0	0	0	0	0
2/9/2025 15:55	40601	PIGR_T1	9	12	3	0.13	0.16	0.03	-0.13	-0.12	0	0	0	0	0	0
2/9/2025 16:03	61304	EARL_T1	0	0	0	0	0	0	-0.94	-0.97	1	1	0	600	600	0
2/9/2025 16:07	47104	MARL_T1	0	0	0	0	0	0	-2.12	-2.12	0	0	0	0	0	0
2/9/2025 16:07	47101	MARL_T1	57	101	44	1.76	1.43	-0.33	0	0	0	0	0	0	0	0
2/9/2025 16:17	63804	HEMP_T1	1	0	-1	6.4	6.4	0	0.9	0.88	0	0	0	0	0	0
2/9/2025 16:23	55002	NEWP_T1	4	3	-1	0.63	0.87	0.24	-0.18	-0.19	0	0	0	0	0	0
2/9/2025 19:14	45501	DERR_T2	0	0	0	0	0	0	-0.69	-0.7	2	2	0	1800	1800	0
2/9/2025 19:15	10705	CATA_T2	0	0	0	0	0	0	-0.9	-0.9	1	1	0	900	900	0
2/9/2025 19:19	44503	HAMI_T2	0	0	0	0	0	0	-2.05	-2.12	1	1	0	1200	1200	0
2/9/2025 19:19	44502	HAMI_T2	1	1	0	2.6	2.8	0.2	0	0	0	0	0	0	0	0
2/9/2025 19:21	46203	DANV_T2	94	122	28	0.68	0.83	0.15	-1.77	-1.75	0	0	0	0	0	0
2/9/2025 19:21	47104	MARL_T1	0	0	0	0	0	0	-2.18	-2.18	0	0	0	0	0	0
2/9/2025 19:21	47101	MARL_T1	51	47	-4	1.09	0.9	-0.19	0	0	0	0	0	0	0	0
2/9/2025 19:22	42701	AUGU_T1	1	1	0	0.2	0.2	0	0	0	2	2	0	1800	1800	0
2/9/2025 19:22	66505	SMAN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/9/2025 19:22	66504	SMAN_T2	0	0	0	0	0	0	-0.49	-0.54	0	0	0	0	0	0
2/9/2025 19:22	24902	WHHA_T1	7	13	6	0.81	0.49	-0.32	0.18	0.79	0	0	0	0	0	0
2/9/2025 19:23	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 19:23	52502	PROG_T2	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
2/9/2025 19:23	44502	HAMI_T2	1	1	0	2.6	2.8	0.2	0	0	0	0	0	0	0	0
2/9/2025 19:23	14702	TREX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/9/2025 19:24	61001	DONV_T1	0	0	0	0	0	0	-0.24	-0.2	0	0	0	0	0	0
2/9/2025 19:24	21202	ECAR_T2	0	7	7	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 19:24	21206	ECAR_T2	1	1	0	8.2	8	-0.2	0.18	0.16	0	0	0	0	0	0
2/9/2025 19:24	21204	ECAR_T2	5	5	0	0.4	1	0.6	0	0	0	0	0	0	0	0
2/9/2025 19:25	14601	SWHI_T1	0	0	0	0	0	0	-1.39	-1.41	0	0	0	0	0	0
2/9/2025 19:25	14603	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 19:25	47403	PENS_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
2/9/2025 19:25	44202	POIN_T2	0	0	0	0	0	0	-0.95	-0.95	1	1	0	1200	1200	0
2/9/2025 19:25	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/9/2025 19:25	44201	POIN_T1	0	3	3	0	0.1	0.1	-2.06	-2.01	1	1	0	1200	1200	0
2/9/2025 19:25	52403	GRPA_T2	4	1	-3	0.93	2.1	1.17	-1.18	-1.21	0	0	0	0	0	0
2/9/2025 19:25	13905	SEID_T1	0	0	0	0	0	0	-0.94	-0.96	1	1	0	1200	1200	0
2/9/2025 19:25	47401	PENS_T1	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
2/9/2025 19:25	13904	SEID_T1	19	20	1	0.98	1.11	0.13	0	0	0	0	0	0	0	0
2/9/2025 19:25	52402	GRPA_T2	8	11	3	0.79	0.35	-0.44	0	0	0	0	0	0	0	0
2/9/2025 19:25	10805	CHHI_T2	1	7	6	8	1.53	-6.47	-1.56	-1.56	1	1	0	600	600	0
2/9/2025 19:26	40602	PIGR_T1	0	0	0	0	0	0	-0.49	-0.51	1	1	0	600	600	0
2/9/2025 19:26	40601	PIGR_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
2/9/2025 19:27	16101	BING_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
2/9/2025 19:27	52502	PROG_T2	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
2/9/2025 19:27	40601	PIGR_T1	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
2/9/2025 19:28	45901	AUBU_T1	77	109	32	0.32	0.32	0	0.01	0.01	0	0	0	0	0	0
2/9/2025 19:28	45902	AUBU_T1	5	7	2	0.14	0.17	0.03	0	0	0	0	0	0	0	0
2/9/2025 19:28	52402	GRPA_T2	8	11	3	0.79	0.35	-0.44	0	0	0	0	0	0	0	0
2/9/2025 19:28	52403	GRPA_T2	4	1	-3	0.93	2.1	1.17	0	0	0	0	0	0	0	0
2/9/2025 19:28	52404	GRPA_T2	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
2/9/2025 19:28	42601	TUSC_T1	47	39	-8	0.62	0.5	-0.12	-0.31	-0.28	2	2	0	1800	1800	0
2/9/2025 19:29	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 19:29	14601	SWHI_T1	0	0	0	0	0	0	-1.39	-1.41	0	0	0	0	0	0
2/9/2025 19:29	45902	AUBU_T1	5	7	2	0.14	0.17	0.03	0.01	0.01	1	1	0	600	600	0
2/9/2025 19:29	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/9/2025 19:29	45901	AUBU_T1	77	109	32	0.32	0.32	0	0	0	0	0	0	0	0	0
2/9/2025 19:29	13303	ORVI_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
2/9/2025 19:29	44201	POIN_T1	0	3	3	0	0.1	0.1	-4.12	-4.03	2	2	0	2400	2400	0
2/9/2025 19:29	46203	DANV_T2	94	122	28	0.68	0.83	0.15	-1.77	-1.75	0	0	0	0	0	0
2/9/2025 19:29	14603	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 19:30	52402	GRPA_T2	6	11	5	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/9/2025 19:30	52403	GRPA_T2	1	1	0	2.1	1.3	-0.8	-1.18	-1.21	0	0	0	0	0	0
2/9/2025 19:31	14103	TRUM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 19:31	52404	GRPA_T2	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
2/9/2025 19:31	55002	NEWP_T1	3	5	2	0.73	0.58	-0.15	-0.19	-0.2	0	0	0	0	0	0
2/9/2025 19:31	55001	NEWP_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
2/9/2025 19:31	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/9/2025 19:31	14102	TRUM_T2	1	1	0	3.8	3.7	-0.1	-0.48	-0.47	2	2	0	1500	1500	0
2/9/2025 19:31	52403	GRPA_T2	1	1	0	2.1	1.3	-0.8	0	0	0	0	0	0	0	0
2/9/2025 19:31	63804	HEMP_T1	1	1	0	6.4	6.3	-0.1	0.88	0.84	0	0	0	0	0	0
2/9/2025 19:31	52402	GRPA_T2	6	11	5	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/9/2025 19:31	51804	EBEN_T2	0	0	0	0	0	0	-1.54	-1.68	1	1	0	900	900	0
2/9/2025 19:31	10705	CATA_T2	0	0	0	0	0	0	-0.9	-0.89	1	1	0	900	900	0
2/9/2025 19:31	10801	CHHI_T1	0	0	0	0	0	0	-2.09	-2.1	3	3	0	2100	2100	0
2/9/2025 19:32	51804	EBEN_T2	0	0	0	0	0	0	-1.54	-1.68	1	1	0	900	900	0
2/9/2025 19:32	40601	PIGR_T1	1	19	18	0.1	0.16	0.06	0	0	0	0	0	0	0	0
2/9/2025 19:32	41002	LAUR_T2	1	10	9	1	0.31	-0.69	0	0	0	0	0	0	0	0
2/9/2025 19:32	55002	NEWP_T1	3	5	2	0.73	0.58	-0.15	-0.19	-0.2	0	0	0	0	0	0
2/9/2025 19:32	41001	LAUR_T2	2	39	37	0.7	0.13	-0.57	0	0	0	0	0	0	0	0
2/9/2025 19:32	57401	SPAN_T1	0	0	0	0	0	0	-2.69	-2.72	2	2	0	1200	1200	0
2/9/2025 19:33	14702	TREX_T2	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
2/9/2025 19:33	65702	RVIL_T2	0	0	0	0	0	0	-0.87	-0.91	0	0	0	0	0	0
2/9/2025 19:34	20401	ASHF_T2	1	2	1	0.2	0	-0.2	-0.29	-0.31	1	1	0	600	600	0
2/9/2025 19:34	64201	KINZ_T1	0	0	0	0	0	0	-0.84	-0.85	3	3	0	1500	1500	0
2/9/2025 19:34	64204	KINZ_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/9/2025 19:34	20402	ASHF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/9/2025 19:34	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 19:34	52403	GRPA_T2	1	1	0	2.1	1.3	-0.8	0	0	0	0	0	0	0	0
2/9/2025 19:34	52402	GRPA_T2	6	11	5	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/9/2025 19:34	47103	MARL_T2	299	308	9	0.73	0.79	0.06	-0.43	-0.48	0	0	0	0	0	0
2/9/2025 19:34	20403	ASHF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/9/2025 19:34	47101	MARL_T1	47	42	-5	1.04	0.96	-0.08	-1.17	-1.21	1	1	0	600	600	0
2/9/2025 19:34	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 19:34	64101	REFR_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
2/9/2025 19:34	63501	HEID_TBK1-2	55	44	-11	0.44	0.59	0.15	-0.44	-0.52	1	1	0	900	900	0
2/9/2025 19:34	45501	DERR_T2	0	0	0	0	0	0	-0.7	-0.71	2	2	0	1800	1800	0
2/9/2025 19:34	40601	PIGR_T1	1	19	18	0.1	0.16	0.06	0	0	0	0	0	0	0	0
2/9/2025 19:34	47102	MARL_T2	148	154	6	0.85	0.83	-0.02	0	0	0	0	0	0	0	0
2/9/2025 19:34	40702	FFLD_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/9/2025 19:35	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 19:35	40504	CRES_T1	14	0	-14	0.22	0	-0.22	-2.01	-2.05	0	0	0	0	0	0
2/9/2025 19:35	46203	DANV_T2	109	119	10	0.73	0.84	0.11	-1.77	-1.75	0	0	0	0	0	0
2/9/2025 19:35	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 19:35	46206	DANV_T2	0	0	0	0	0	0	-0.65	-0.46	2	2	0	2100	2100	0
2/9/2025 19:35	64101	REFR_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
2/9/2025 19:35	66505	SMAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/9/2025 19:35	45501	DERR_T2	0	0	0	0	0	0	-0.7	-0.71	2	2	0	1800	1800	0
2/9/2025 19:36	40504	CRES_T1	14	0	-14	0.22	0	-0.22	-2.05	-0.7	0	0	0	0	0	0
2/9/2025 19:36	61001	DONV_T1	0	0	0	0	0	0	-0.1	-0.07	0	0	0	0	0	0
2/9/2025 19:36	46203	DANV_T2	109	119	10	0.73	0.84	0.11	-1.75	-1.76	0	0	0	0	0	0
2/9/2025 19:36	60501	NMAN_T2	4	2	-2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
2/9/2025 19:36	60201	ATGL_T2	0	1	1	0	0.1	0.1	-0.42	-0.48	0	0	0	0	0	0
2/9/2025 19:36	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 19:37	62105	ELAN_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
2/9/2025 19:37	61506	EPET_T2	0	0	0	0	0	0	-1.28	-1.24	1	1	0	900	900	0
2/9/2025 19:37	14602	SWHI_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
2/9/2025 19:37	40502	CRES_T2	130	131	1	1.12	1.14	0.02	0.09	0.09	0	0	0	0	0	0
2/9/2025 19:37	65601	QVIL_T2	0	0	0	0	0	0	-1.13	-1.13	1	1	0	900	900	0
2/9/2025 19:37	40501	CRES_T2	57	111	54	0.37	0.39	0.02	0	0	0	0	0	0	0	0
2/9/2025 19:37	14603	SWHI_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/9/2025 19:37	45501	DERR_T2	0	0	0	0	0	0	-0.71	-0.73	2	2	0	1800	1800	0
2/9/2025 19:37	10702	CATA_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
2/9/2025 19:37	64101	REFR_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
2/9/2025 19:37	62106	ELAN_T1	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
2/9/2025 19:37	46203	DANV_T2	109	119	10	0.73	0.84	0.11	-1.75	-1.76	0	0	0	0	0	0
2/9/2025 19:37	14601	SWHI_T1	0	0	0	0	0	0	-1.41	-1.4	0	0	0	0	0	0
2/9/2025 19:38	65205	PRIN_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
2/9/2025 19:38	58102	NEKI_T1	1	1	0	1.1	1	-0.1	-1.2	-1.24	1	1	0	1200	1200	0
2/9/2025 19:38	61001	DONV_T1	0	0	0	0	0	0	-0.2	-0.14	0	0	0	0	0	0
2/9/2025 19:38	44505	HAMI_T2	0	0	0	0	0	0	-0.35	-0.39	0	0	0	0	0	0
2/9/2025 19:38	52402	GRPA_T2	6	11	5	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/9/2025 19:38	44502	HAMI_T2	1	1	0	2.7	3	0.3	0	0	0	0	0	0	0	0
2/9/2025 19:38	60502	NMAN_T2	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
2/9/2025 19:38	65702	RVIL_T2	0	0	0	0	0	0	-0.91	-0.88	0	0	0	0	0	0
2/9/2025 19:38	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
2/9/2025 19:38	66505	SMAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/9/2025 19:38	51804	EBEN_T2	0	0	0	0	0	0	-1.68	-1.68	1	1	0	900	900	0
2/9/2025 19:38	52403	GRPA_T2	1	1	0	2.1	1.3	-0.8	0	0	0	0	0	0	0	0
2/9/2025 19:38	60501	NMAN_T2	4	2	-2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
2/9/2025 19:39	64204	KINZ_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/9/2025 19:39	65701	RVIL_T1	0	0	0	0	0	0	-1.26	-1.24	0	0	0	0	0	0
2/9/2025 19:39	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 19:39	64203	KINZ_T1	0	0	0	0	0	0	-0.49	-0.5	1	1	0	600	600	0
2/9/2025 19:39	40601	PIGR_T1	1	19	18	0.1	0.16	0.06	-0.1	-0.19	0	0	0	0	0	0
2/9/2025 19:40	40601	PIGR_T1	1	19	18	0.1	0.16	0.06	-0.1	-0.19	0	0	0	0	0	0
2/9/2025 19:40	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	-0.6	-0.6	0	0	0	0	0	0
2/9/2025 19:40	60201	ATGL_T2	0	1	1	0	0.1	0.1	-0.83	-0.97	0	0	0	0	0	0
2/9/2025 19:41	65702	RVIL_T2	0	0	0	0	0	0	-0.91	-0.88	0	0	0	0	0	0
2/9/2025 19:41	60502	NMAN_T2	0	0	0	0	0	0	-0.59	-0.61	0	0	0	0	0	0
2/9/2025 19:41	60501	NMAN_T2	4	2	-2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
2/9/2025 19:41	64101	REFR_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
2/9/2025 19:41	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 19:41	60201	ATGL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/9/2025 19:41	61001	DONV_T1	0	0	0	0	0	0	-0.1	-0.07	0	0	0	0	0	0
2/9/2025 19:41	66505	SMAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/9/2025 19:42	58006	WCAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 19:42	64101	REFR_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
2/9/2025 19:42	52402	GRPA_T2	6	11	5	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/9/2025 19:42	40601	PIGR_T1	1	19	18	0.1	0.16	0.06	0	0	0	0	0	0	0	0
2/9/2025 19:42	52403	GRPA_T2	1	1	0	2.1	1.3	-0.8	0	0	0	0	0	0	0	0
2/9/2025 19:43	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
2/9/2025 19:43	64101	REFR_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
2/9/2025 19:43	66505	SMAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/9/2025 19:43	65603	QVIL_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
2/9/2025 19:44	67201	TEHI_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
2/9/2025 19:44	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
2/9/2025 19:44	65702	RVIL_T2	0	0	0	0	0	0	-1.83	-1.76	0	0	0	0	0	0
2/9/2025 19:44	57401	SPAN_T1	0	0	0	0	0	0	-1.36	-1.34	1	1	0	600	600	0
2/9/2025 19:44	66505	SMAN_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/9/2025 19:45	65702	RVIL_T2	0	0	0	0	0	0	-0.91	-0.88	0	0	0	0	0	0
2/9/2025 19:45	58401	MORO_T1	0	0	0	0	0	0	-3.19	-3.15	3	3	0	1800	1800	0
2/9/2025 19:45	65802	RTWN_T2	0	0	0	0	0	0	-0.2	-0.17	0	0	0	0	0	0
2/9/2025 19:45	65603	QVIL_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
2/9/2025 19:45	64101	REFR_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
2/9/2025 19:46	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 19:46	60501	NMAN_T2	2	5	3	0.15	0.22	0.07	0	0	0	0	0	0	0	0
2/9/2025 19:46	64101	REFR_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
2/9/2025 19:46	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 19:47	66505	SMAN_T2	1	3	2	0.4	0.53	0.13	0	0	0	0	0	0	0	0
2/9/2025 19:47	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
2/9/2025 19:48	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 19:50	58401	MORO_T1	0	0	0	0	0	0	-1.06	-1.05	1	1	0	600	600	0
2/9/2025 19:52	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2025 21:49	66505	SMAN_T2	3	3	0	1.07	0.97	-0.1	0	0	0	0	0	0	0	0
2/9/2025 21:49	66504	SMAN_T2	0	0	0	0	0	0	-0.57	-0.63	0	0	0	0	0	0
2/9/2025 22:38	57401	SPAN_T1	0	0	0	0	0	0	-1.07	-1.1	1	1	0	600	600	0
2/10/2025 1:19	63201	MGTN_T2	0	0	0	0	0	0	0.1	1.04	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/10/2025 1:19	63202	MGTN_T2	1	2	1	8.9	3.95	-4.95	0	0	0	0	0	0	0	0
2/10/2025 7:54	45902	AUBU_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/10/2025 7:54	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
2/10/2025 7:57	46203	DANV_T2	113	130	17	0.65	0.76	0.11	-2.99	-2.1	0	0	0	0	0	0
2/10/2025 7:57	46206	DANV_T2	6	5	-1	0.63	0.45	-0.18	0	0	0	0	0	0	0	0
2/10/2025 7:57	46204	DANV_T2	13	4	-9	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
2/10/2025 8:00	53502	EVIL_T2	1	1	0	1.1	2.2	1.1	0	0	0	0	0	0	0	0
2/10/2025 8:00	53501	EVIL_T2	2	1	-1	0.25	0.3	0.05	-1.29	-1.12	2	2	0	1200	1200	0
2/10/2025 8:11	24901	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 8:11	24902	WHHA_T1	15	12	-3	0.68	0.86	0.18	0.13	0.12	0	0	0	0	0	0
2/10/2025 8:14	51802	EBEN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
2/10/2025 8:31	40101	HUNT_T2	20	26	6	1.22	1.03	-0.19	-1.74	-1.73	0	0	0	0	0	0
2/10/2025 8:38	55002	NEWP_T1	3	3	0	0.43	0.43	0	-0.19	-0.2	0	0	0	0	0	0
2/10/2025 8:38	67402	WAKE_T2	2	0	-2	0.2	0	-0.2	0.49	0.47	1	1	0	600	600	0
2/10/2025 8:41	45902	AUBU_T1	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
2/10/2025 8:41	45901	AUBU_T1	0	1	1	0	0	0	0.01	0.01	0	0	0	0	0	0
2/10/2025 8:41	44301	BEAV_T2	2	0	-2	1.1	0	-1.1	0	0	0	0	0	0	0	0
2/10/2025 8:42	20401	ASHF_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
2/10/2025 8:42	45902	AUBU_T1	2	2	0	0.7	0.75	0.05	0.01	0.01	1	1	0	600	600	0
2/10/2025 8:42	45901	AUBU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 8:42	20403	ASHF_T2	1	50	49	0.1	0.2	0.1	0.31	0.23	0	0	0	0	0	0
2/10/2025 8:42	20402	ASHF_T2	4	0	-4	0.33	0	-0.33	0	0	0	0	0	0	0	0
2/10/2025 8:44	20601	GRWO_T2	99	118	19	0.64	0.56	-0.08	0.73	0.68	0	0	0	0	0	0
2/10/2025 8:44	20603	GRWO_T2	1	5	4	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/10/2025 8:45	20402	ASHF_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 8:45	20403	ASHF_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/10/2025 8:45	20401	ASHF_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/10/2025 8:47	51604	DUKE_T2	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
2/10/2025 8:58	45501	DERR_T2	2	6	4	1.3	0	-1.3	0.44	0.43	2	2	0	1800	1800	0
2/10/2025 8:58	45502	DERR_T2	3	4	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/10/2025 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
2/10/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
2/10/2025 9:09	29402	BELT_T1	1	1	0	6.4	6.5	0.1	0	0	0	0	0	0	0	0
2/10/2025 9:13	45902	AUBU_T1	2	3	1	0.9	0.45	-0.45	0	0	0	0	0	0	0	0
2/10/2025 9:13	45502	DERR_T2	4	2	-2	0.45	0.6	0.15	0	0	0	0	0	0	0	0
2/10/2025 9:13	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
2/10/2025 9:13	45501	DERR_T2	2	5	3	0.55	0.8	0.25	0.43	0.44	2	2	0	1800	1800	0
2/10/2025 9:14	45502	DERR_T2	4	2	-2	0.45	0.6	0.15	0	0	0	0	0	0	0	0
2/10/2025 9:14	53502	EVIL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/10/2025 9:14	53501	EVIL_T2	2	2	0	0.2	0.7	0.5	-1.18	-1.19	2	2	0	1200	1200	0
2/10/2025 9:14	45501	DERR_T2	2	5	3	0.55	0.8	0.25	0.43	0.44	2	2	0	1800	1800	0
2/10/2025 9:15	10805	CHHI_T2	7	2	-5	2.17	4.15	1.98	-1.28	-1.25	1	1	0	600	600	0
2/10/2025 9:16	52402	GRPA_T2	23	36	13	0.42	0.55	0.13	0	0	0	0	0	0	0	0
2/10/2025 9:16	52403	GRPA_T2	5	13	8	0.9	0.87	-0.03	-0.66	-0.63	0	0	0	0	0	0
2/10/2025 9:19	43202	MVIL_T2	1	2	1	0.3	0.25	-0.05	-0.49	-0.53	0	0	0	0	0	0
2/10/2025 9:19	13303	ORVI_T1	0	0	0	0	0	0	1.05	1.07	0	0	0	0	0	0
2/10/2025 9:20	41902	REED_T1	0	0	0	0	0	0	-0.68	-0.67	1	1	0	900	900	0
2/10/2025 9:20	61001	DONV_T1	0	0	0	0	0	0	-0.01	0.04	0	0	0	0	0	0
2/10/2025 9:21	52403	GRPA_T2	5	13	8	0.9	0.87	-0.03	0	0	0	0	0	0	0	0
2/10/2025 9:21	52402	GRPA_T2	23	36	13	0.42	0.55	0.13	0	0	0	0	0	0	0	0
2/10/2025 9:24	24901	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 9:24	24902	WHHA_T1	6	10	4	0.52	0.73	0.21	0.15	0.18	0	0	0	0	0	0
2/10/2025 9:27	45501	DERR_T2	4	2	-2	0.3	0.3	0	0.44	0.46	2	2	0	1800	1800	0
2/10/2025 9:27	67503	WEWI_T2	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
2/10/2025 9:27	45502	DERR_T2	2	1	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
2/10/2025 9:31	23301	JEFF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 9:33	13303	ORVI_T1	0	0	0	0	0	0	1.07	1.03	0	0	0	0	0	0
2/10/2025 9:34	65205	PRIN_T1	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
2/10/2025 9:34	65202	PRIN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/10/2025 9:35	13303	ORVI_T1	0	0	0	0	0	0	1.07	1.03	0	0	0	0	0	0
2/10/2025 9:36	55001	NEWP_T1	0	0	0	0	0	0	-0.95	-0.97	1	1	0	600	600	0
2/10/2025 9:36	55002	NEWP_T1	4	5	1	0.7	0.76	0.06	0	0	0	0	0	0	0	0
2/10/2025 9:37	13103	NHAM_T2	0	0	0	0	0	0	-1.61	-1.62	1	1	0	600	600	0
2/10/2025 9:37	13105	NHAM_T2	0	8	8	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 9:37	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 9:39	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 9:39	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 9:40	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 9:40	43304	WATS_T2	0	0	0	0	0	0	-0.76	-0.77	1	1	0	600	600	0
2/10/2025 9:41	45902	AUBU_T1	2	6	4	0.45	1	0.55	0.01	0.01	2	2	0	1200	1200	0
2/10/2025 9:41	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 9:41	43304	WATS_T2	0	0	0	0	0	0	-0.76	-0.77	1	1	0	600	600	0
2/10/2025 9:43	45902	AUBU_T1	2	6	4	0.45	1	0.55	0	0	0	0	0	0	0	0
2/10/2025 9:43	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
2/10/2025 9:44	29402	BELT_T1	1	1	0	6.5	7.1	0.6	0	0	0	0	0	0	0	0
2/10/2025 9:44	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/10/2025 9:55	16103	BING_T2	0	0	0	0	0	0	-1.57	-1.59	1	1	0	900	900	0
2/10/2025 9:55	16102	BING_T2	1	1	0	4.6	4.7	0.1	0	0	0	0	0	0	0	0
2/10/2025 9:57	45502	DERR_T2	1	2	1	0.2	0	-0.2	-0.56	-0.57	0	0	0	0	0	0
2/10/2025 9:57	45501	DERR_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/10/2025 9:58	61505	EPET_T1	0	0	0	0	0	0	0.39	0.35	0	0	0	0	0	0
2/10/2025 9:59	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.03	0	0	0	0	0	0
2/10/2025 10:01	20602	GRWO_T2	5	1	-4	0.28	0	-0.28	0	0	0	0	0	0	0	0
2/10/2025 10:01	20601	GRWO_T2	96	62	-34	0.78	0.54	-0.24	0.65	0.66	0	0	0	0	0	0
2/10/2025 10:01	41902	REED_T1	0	0	0	0	0	0	-0.77	-0.8	1	1	0	900	900	0
2/10/2025 10:02	54201	PENN_T1	66	33	-33	0.32	0.37	0.05	-1.38	-1.37	0	0	0	0	0	0
2/10/2025 10:02	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 10:02	54203	PENN_T1	18	20	2	0.92	0.7	-0.22	0	0	0	0	0	0	0	0
2/10/2025 10:02	23301	JEFF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 10:03	54203	PENN_T1	18	20	2	0.92	0.7	-0.22	0	0	0	0	0	0	0	0
2/10/2025 10:03	54201	PENN_T1	66	33	-33	0.32	0.37	0.05	-1.38	-1.37	0	0	0	0	0	0
2/10/2025 10:05	54201	PENN_T1	66	33	-33	0.32	0.37	0.05	-1.38	-1.37	0	0	0	0	0	0
2/10/2025 10:05	54203	PENN_T1	18	20	2	0.92	0.7	-0.22	0	0	0	0	0	0	0	0
2/10/2025 10:05	58401	MORO_T1	0	0	0	0	0	0	-3.59	-1.74	2	2	0	1200	1200	0
2/10/2025 10:06	54203	PENN_T1	18	20	2	0.92	0.7	-0.22	1.41	1.36	0	0	0	0	0	0
2/10/2025 10:06	54201	PENN_T1	66	33	-33	0.32	0.37	0.05	0	0	0	0	0	0	0	0
2/10/2025 10:06	52502	PROG_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/10/2025 10:08	58401	MORO_T1	0	0	0	0	0	0	-0.87	-0.84	1	1	0	600	600	0
2/10/2025 10:11	45902	AUBU_T1	3	3	0	0.7	0.17	-0.53	0.01	0.01	1	1	0	600	600	0
2/10/2025 10:11	52502	PROG_T2	1	1	0	0.1	0.1	0	-0.53	0.35	1	0	-1	900	0	-900
2/10/2025 10:12	52502	PROG_T2	1	1	0	0.1	0.1	0	-0.53	0.35	1	0	-1	900	0	-900
2/10/2025 10:17	26402	INOR_T1	0	2	2	0	0	0	-1.75	-1.78	1	1	0	600	600	0
2/10/2025 10:17	26401	INOR_T1	99	132	33	0.93	1.38	0.45	0	0	0	0	0	0	0	0
2/10/2025 10:17	14204	EALL_T2	0	0	0	0	0	0	0.26	0.22	0	0	0	0	0	0
2/10/2025 10:20	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
2/10/2025 10:21	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
2/10/2025 10:22	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
2/10/2025 10:23	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.01	-0.01	0	0	0	0	0	0
2/10/2025 10:23	67402	WAKE_T2	0	0	0	0	0	0	0.44	0.44	1	1	0	600	600	0
2/10/2025 10:24	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.04	-0.04	0	0	0	0	0	0
2/10/2025 10:26	46206	DANV_T2	2	2	0	0.85	0.4	-0.45	0	0	0	0	0	0	0	0
2/10/2025 10:26	67402	WAKE_T2	0	0	0	0	0	0	0.44	0.44	1	1	0	600	600	0
2/10/2025 10:26	46203	DANV_T2	21	76	55	0.4	0.45	0.05	-2.17	-2.11	0	0	0	0	0	0
2/10/2025 10:26	46204	DANV_T2	6	2	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
2/10/2025 10:27	10805	CHHI_T2	7	7	0	2.36	1.7	-0.66	-1.27	-1.36	1	1	0	600	600	0
2/10/2025 10:27	62105	ELAN_T1	0	0	0	0	0	0	0.44	0.51	0	0	0	0	0	0
2/10/2025 10:28	46206	DANV_T2	2	2	0	0.85	0.4	-0.45	0	0	0	0	0	0	0	0
2/10/2025 10:28	58002	WCAR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/10/2025 10:28	58006	WCAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 10:28	46204	DANV_T2	6	2	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
2/10/2025 10:28	46203	DANV_T2	21	76	55	0.4	0.45	0.05	-4.33	-4.21	0	0	0	0	0	0
2/10/2025 10:29	46203	DANV_T2	21	76	55	0.4	0.45	0.05	-2.17	-2.11	0	0	0	0	0	0
2/10/2025 10:29	53501	EVIL_T2	1	2	1	0.7	0.85	0.15	-1.14	-1.16	2	2	0	1200	1200	0
2/10/2025 10:29	46206	DANV_T2	2	2	0	0.85	0.4	-0.45	1.67	1.64	1	1	0	1200	1200	0
2/10/2025 10:29	46204	DANV_T2	6	2	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
2/10/2025 10:29	10801	CHHI_T1	0	0	0	0	0	0	-2.02	-2.05	3	3	0	2100	2100	0
2/10/2025 10:29	53502	EVIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/10/2025 10:30	53502	EVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/10/2025 10:30	53501	EVIL_T2	2	2	0	0.8	0.9	0.1	-1.14	-1.16	2	2	0	1200	1200	0
2/10/2025 10:30	46204	DANV_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/10/2025 10:30	46203	DANV_T2	71	97	26	0.44	0.52	0.08	-2.17	-2.11	0	0	0	0	0	0
2/10/2025 10:30	46206	DANV_T2	2	2	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
2/10/2025 10:31	46206	DANV_T2	2	2	0	0.8	0.2	-0.6	1.67	1.64	1	1	0	1200	1200	0
2/10/2025 10:31	46203	DANV_T2	71	97	26	0.44	0.52	0.08	-2.17	-2.11	0	0	0	0	0	0
2/10/2025 10:31	62105	ELAN_T1	0	0	0	0	0	0	0.44	0.51	0	0	0	0	0	0
2/10/2025 10:31	46204	DANV_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/10/2025 10:32	53501	EVIL_T2	2	2	0	0.8	0.9	0.1	-1.14	-1.16	2	2	0	1200	1200	0
2/10/2025 10:32	53502	EVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/10/2025 10:33	53502	EVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/10/2025 10:33	53501	EVIL_T2	2	2	0	0.8	0.9	0.1	-1.14	-1.16	2	2	0	1200	1200	0
2/10/2025 10:34	41001	LAUR_T2	79	81	2	0.59	0.72	0.13	0	0	0	0	0	0	0	0
2/10/2025 10:34	41002	LAUR_T2	46	52	6	0.44	0.48	0.04	-0.99	-0.99	0	0	0	0	0	0
2/10/2025 10:38	66203	SISP_T2	0	0	0	0	0	0	-1.08	-1.07	2	2	0	1800	1800	0
2/10/2025 10:38	57205	ROSS_T1	1	2	1	1.3	0.85	-0.45	-0.86	-0.85	1	1	0	900	900	0
2/10/2025 10:39	16102	BING_T2	1	1	0	4.3	4.6	0.3	0	0	0	0	0	0	0	0
2/10/2025 10:39	16101	BING_T2	1	1	0	1.8	0	-1.8	0	0	0	0	0	0	0	0
2/10/2025 10:39	16103	BING_T2	0	0	0	0	0	0	-1.58	-1.61	1	1	0	900	900	0
2/10/2025 10:40	24902	WHHA_T1	13	12	-1	0.82	0.87	0.05	0.18	0.16	0	0	0	0	0	0
2/10/2025 10:43	66203	SISP_T2	0	0	0	0	0	0	-1.08	-1.07	2	2	0	1800	1800	0
2/10/2025 10:45	41001	LAUR_T2	81	57	-24	0.72	0.24	-0.48	0	0	0	0	0	0	0	0
2/10/2025 10:45	41002	LAUR_T2	50	21	-29	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
2/10/2025 10:45	20602	GRWO_T2	3	5	2	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
2/10/2025 10:45	20601	GRWO_T2	29	7	-22	0.53	0.5	-0.03	0.65	0.64	0	0	0	0	0	0
2/10/2025 10:45	57502	LAWN_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 10:47	16102	BING_T2	1	1	0	4.6	5.6	1	0	0	0	0	0	0	0	0
2/10/2025 10:47	16101	BING_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
2/10/2025 10:47	46802	HEPB_T1	1	1	0	1	1	0	-1.33	-1.31	0	0	0	0	0	0
2/10/2025 10:47	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 10:49	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 10:51	52401	GRPA_T2	4	10	6	0.25	0.25	0	0	0	0	0	0	0	0	0
2/10/2025 10:51	52402	GRPA_T2	23	15	-8	0.34	0.81	0.47	0	0	0	0	0	0	0	0
2/10/2025 10:51	52403	GRPA_T2	10	18	8	0.43	0.53	0.1	-0.63	-0.67	0	0	0	0	0	0
2/10/2025 10:52	52401	GRPA_T2	4	10	6	0.25	0.25	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/10/2025 10:52	52402	GRPA_T2	23	15	-8	0.34	0.81	0.47	0	0	0	0	0	0	0	0
2/10/2025 10:52	52403	GRPA_T2	10	18	8	0.43	0.53	0.1	0	0	0	0	0	0	0	0
2/10/2025 10:52	67702	WERN_T2	0	1	1	0	0.1	0.1	-0.71	-0.7	0	0	0	0	0	0
2/10/2025 10:54	42701	AUGU_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
2/10/2025 10:55	24702	FLND_T2	1	0	-1	0.1	0	-0.1	0.32	0.16	1	1	0	1200	1200	0
2/10/2025 10:55	24701	FLND_T2	15	20	5	1.59	1.4	-0.19	0	0	0	0	0	0	0	0
2/10/2025 10:56	67702	WERN_T2	0	1	1	0	0.1	0.1	-0.71	-0.7	0	0	0	0	0	0
2/10/2025 10:56	45501	DERR_T2	0	0	0	0	0	0	0.93	0.83	4	4	0	3600	3600	0
2/10/2025 10:56	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 10:57	67402	WAKE_T2	0	1	1	0	0.1	0.1	0.47	0.47	1	1	0	600	600	0
2/10/2025 10:57	67401	WAKE_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/10/2025 10:58	62101	ELAN_T1	0	0	0	0	0	0	0.55	2.07	2	2	0	1800	1800	0
2/10/2025 10:58	42701	AUGU_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
2/10/2025 10:59	45501	DERR_T2	0	0	0	0	0	0	0.93	0.83	4	4	0	3600	3600	0
2/10/2025 10:59	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 11:00	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 11:00	45501	DERR_T2	0	0	0	0	0	0	0.46	0.41	2	2	0	1800	1800	0
2/10/2025 11:00	46206	DANV_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/10/2025 11:00	46204	DANV_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/10/2025 11:00	46203	DANV_T2	94	105	11	0.52	0.65	0.13	-4.33	-4.46	0	0	0	0	0	0
2/10/2025 11:01	20601	GRWO_T2	6	4	-2	0.55	0.4	-0.15	0.64	0.55	0	0	0	0	0	0
2/10/2025 11:01	63802	HEMP_T1	0	1	1	0	0.1	0.1	0.24	0.19	0	0	0	0	0	0
2/10/2025 11:01	63801	HEMP_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
2/10/2025 11:01	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 11:01	40601	PIGR_T1	1	5	4	0.2	0.36	0.16	0.04	0.04	0	0	0	0	0	0
2/10/2025 11:01	63803	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/10/2025 11:01	63804	HEMP_T1	1	1	0	6.6	6.3	-0.3	0	0	0	0	0	0	0	0
2/10/2025 11:01	20602	GRWO_T2	5	1	-4	0.52	0	-0.52	0	0	0	0	0	0	0	0
2/10/2025 11:03	40601	PIGR_T1	1	5	4	0.2	0.36	0.16	0.04	0.04	0	0	0	0	0	0
2/10/2025 11:04	40601	PIGR_T1	1	5	4	0.2	0.36	0.16	0	0	0	0	0	0	0	0
2/10/2025 11:04	46803	HEPB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 11:04	40602	PIGR_T1	0	0	0	0	0	0	-1.73	-1.82	1	1	0	600	600	0
2/10/2025 11:05	65602	QVIL_T2	2	31	29	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/10/2025 11:05	65601	QVIL_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/10/2025 11:05	42902	MIDD_T2	0	0	0	0	0	0	-0.95	-0.93	1	1	0	600	600	0
2/10/2025 11:06	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 11:06	47802	MOCA_T2	0	0	0	0	0	0	-0.82	-0.79	0	0	0	0	0	0
2/10/2025 11:06	65601	QVIL_T2	0	2	2	0	0.25	0.25	-1.1	-1.08	1	1	0	900	900	0
2/10/2025 11:06	65602	QVIL_T2	2	31	29	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/10/2025 11:07	52501	PROG_T1	72	20	-52	0.13	0.15	0.02	-0.45	-0.39	0	0	0	0	0	0
2/10/2025 11:07	40601	PIGR_T1	1	5	4	0.2	0.36	0.16	0	0	0	0	0	0	0	0
2/10/2025 11:09	45902	AUBU_T1	2	2	0	0.2	0.4	0.2	0.01	0.01	1	1	0	600	600	0
2/10/2025 11:09	27504	WEIS_T1	1	1	0	0.6	0	-0.6	-0.89	-0.88	0	0	0	0	0	0
2/10/2025 11:11	48302	ORWI_T2	2	2	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
2/10/2025 11:11	45902	AUBU_T1	2	2	0	0.2	0.4	0.2	0.01	0.01	2	2	0	1200	1200	0
2/10/2025 11:11	67605	WARW_T1	0	14	14	0	0.31	0.31	0	0	0	0	0	0	0	0
2/10/2025 11:12	45902	AUBU_T1	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/10/2025 11:13	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/10/2025 11:13	60801	BUCK_T1	1	1	0	0.1	0.1	0	0.05	0	0	0	0	0	0	0
2/10/2025 11:15	41902	REED_T1	0	1	1	0	0.2	0.2	-0.83	-0.84	1	1	0	900	900	0
2/10/2025 11:18	40101	HUNT_T2	5	11	6	0.66	0.34	-0.32	-3.47	-2.22	0	0	0	0	0	0
2/10/2025 11:19	22602	KIMB_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
2/10/2025 11:19	63601	LETO_T1	6	6	0	0.55	0.73	0.18	-0.01	-0.08	1	1	0	900	900	0
2/10/2025 11:19	40101	HUNT_T2	5	11	6	0.66	0.34	-0.32	0	0	0	0	0	0	0	0
2/10/2025 11:19	63602	LETO_T1	2	0	-2	7.1	0	-7.1	0	0	0	0	0	0	0	0
2/10/2025 11:20	65601	QVIL_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
2/10/2025 11:20	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 11:20	47403	PENS_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
2/10/2025 11:20	47401	PENS_T1	4	4	0	0.65	1.2	0.55	0.95	0.86	0	0	0	0	0	0
2/10/2025 11:20	63602	LETO_T1	2	0	-2	7.1	0	-7.1	0	0	0	0	0	0	0	0
2/10/2025 11:20	63601	LETO_T1	6	6	0	0.55	0.73	0.18	-0.01	-0.08	1	1	0	900	900	0
2/10/2025 11:20	65602	QVIL_T2	31	12	-19	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
2/10/2025 11:22	52402	GRPA_T2	14	13	-1	0.81	0.81	0	0	0	0	0	0	0	0	0
2/10/2025 11:22	52401	GRPA_T2	3	5	2	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
2/10/2025 11:22	52403	GRPA_T2	15	12	-3	0.54	0.52	-0.02	0	0	0	0	0	0	0	0
2/10/2025 11:24	58003	WCAR_T1	1	1	0	1.4	1.6	0.2	0	0	1	1	0	600	600	0
2/10/2025 11:24	58001	WCAR_T1	4	4	0	0.38	0.8	0.42	0	0	0	0	0	0	0	0
2/10/2025 11:24	60301	NWVA_T2	0	0	0	0	0	0	-6.09	-6.16	4	4	0	3600	3600	0
2/10/2025 11:26	60201	ATGL_T2	10	12	2	0.16	0.19	0.03	-0.08	-0.17	0	0	0	0	0	0
2/10/2025 11:27	58001	WCAR_T1	4	4	0	0.38	0.8	0.42	0	0	0	0	0	0	0	0
2/10/2025 11:27	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
2/10/2025 11:27	58003	WCAR_T1	1	1	0	1.4	1.6	0.2	0	0	1	1	0	600	600	0
2/10/2025 11:27	20401	ASHF_T2	0	1	1	0	0	0	-0.23	-0.27	1	1	0	600	600	0
2/10/2025 11:28	25402	LAHA_T2	0	1	1	0	0	0	-0.44	-0.48	0	0	0	0	0	0
2/10/2025 11:29	61502	EPET_T1	0	0	0	0	0	0	-1.25	-1.22	0	0	0	0	0	0
2/10/2025 11:29	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 11:29	20403	ASHF_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
2/10/2025 11:30	20401	ASHF_T2	0	4	4	0	0.2	0.2	-0.23	-0.27	1	1	0	600	600	0
2/10/2025 11:30	40101	HUNT_T2	11	15	4	0.55	0.34	-0.21	0	0	0	0	0	0	0	0
2/10/2025 11:31	64203	KINZ_T1	0	0	0	0	0	0	-0.58	-0.67	3	3	0	2100	2100	0
2/10/2025 11:31	64204	KINZ_T1	1	20	19	0.4	0.45	0.05	0	0	0	0	0	0	0	0
2/10/2025 11:32	52402	GRPA_T2	11	12	1	0.7	0.83	0.13	0	0	0	0	0	0	0	0
2/10/2025 11:32	20401	ASHF_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
2/10/2025 11:32	45802	HEGI_T2	31	42	11	0.62	0.75	0.13	0.3	0.32	0	0	0	0	0	0
2/10/2025 11:32	52401	GRPA_T2	5	2	-3	0.22	0.15	-0.07	0	0	0	0	0	0	0	0
2/10/2025 11:32	20403	ASHF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 11:32	52403	GRPA_T2	12	12	0	0.52	0.76	0.24	-0.68	-0.71	0	0	0	0	0	0
2/10/2025 11:33	45802	HEGI_T2	31	42	11	0.62	0.75	0.13	0.3	0.32	0	0	0	0	0	0
2/10/2025 11:34	52402	GRPA_T2	11	12	1	0.7	0.83	0.13	0	0	0	0	0	0	0	0
2/10/2025 11:34	52403	GRPA_T2	12	12	0	0.52	0.76	0.24	0	0	0	0	0	0	0	0
2/10/2025 11:34	52401	GRPA_T2	5	2	-3	0.22	0.15	-0.07	0	0	0	0	0	0	0	0
2/10/2025 11:34	52404	GRPA_T2	0	0	0	0	0	0	-0.2	-0.03	0	0	0	0	0	0
2/10/2025 11:34	64701	LITI_T1	0	0	0	0	0	0	-0.55	-0.58	1	1	0	900	900	0
2/10/2025 11:37	67201	TEHI_T1	0	0	0	0	0	0	0.85	0.7	1	1	0	900	900	0
2/10/2025 11:37	67203	TEHI_T1	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
2/10/2025 11:37	52403	GRPA_T2	12	12	0	0.52	0.76	0.24	0	0	0	0	0	0	0	0
2/10/2025 11:37	52401	GRPA_T2	5	2	-3	0.22	0.15	-0.07	0	0	0	0	0	0	0	0
2/10/2025 11:37	52402	GRPA_T2	11	12	1	0.7	0.83	0.13	0	0	0	0	0	0	0	0
2/10/2025 11:37	52404	GRPA_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
2/10/2025 11:40	42701	AUGU_T1	2	4	2	0.65	0.57	-0.08	0	0	2	2	0	1800	1800	0
2/10/2025 11:40	59101	WALK_T2	0	0	0	0	0	0	4.05	5.4	3	0	-3	1800	0	-1800
2/10/2025 11:41	59101	WALK_T2	0	0	0	0	0	0	1.35	1.8	1	0	-1	600	0	-600
2/10/2025 11:41	60803	BUCK_T1	0	10	10	0	0.21	0.21	-1.04	-1.02	2	2	0	1200	1200	0
2/10/2025 11:41	60801	BUCK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/10/2025 11:42	60801	BUCK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/10/2025 11:42	41602	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/10/2025 11:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 11:42	60803	BUCK_T1	0	10	10	0	0.21	0.21	-0.52	-0.51	1	1	0	600	600	0
2/10/2025 11:43	10903	COOP_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/10/2025 11:43	62606	ENGL_T1	0	0	0	0	0	0	-1.42	-1.43	1	1	0	900	900	0
2/10/2025 11:43	60801	BUCK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/10/2025 11:43	10901	COOP_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/10/2025 11:43	10705	CATA_T2	1	0	-1	0.6	0	-0.6	-1.79	-1.82	2	2	0	1800	1800	0
2/10/2025 11:43	60803	BUCK_T1	0	10	10	0	0.21	0.21	-1.04	-1.02	2	2	0	1200	1200	0
2/10/2025 11:43	62607	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/10/2025 11:44	41602	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/10/2025 11:44	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 11:45	10705	CATA_T2	0	0	0	0	0	0	-0.89	-0.91	1	1	0	900	900	0
2/10/2025 11:45	10702	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 11:50	64101	REFR_T1	3	4	1	0.57	0.5	-0.07	-0.05	-0.09	0	0	0	0	0	0
2/10/2025 11:51	64101	REFR_T1	3	4	1	0.57	0.5	-0.07	-0.18	-0.12	0	0	0	0	0	0
2/10/2025 11:52	52403	GRPA_T2	6	12	6	0.85	0.89	0.04	-0.69	-0.72	0	0	0	0	0	0
2/10/2025 11:52	52401	GRPA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/10/2025 11:52	64101	REFR_T1	3	4	1	0.57	0.5	-0.07	-0.09	-0.06	0	0	0	0	0	0
2/10/2025 11:52	52402	GRPA_T2	12	14	2	0.83	0.85	0.02	0	0	0	0	0	0	0	0
2/10/2025 11:53	13904	SEID_T1	3	10	7	0.13	0.5	0.37	0	0	0	0	0	0	0	0
2/10/2025 11:53	64101	REFR_T1	3	4	1	0.57	0.5	-0.07	-0.35	-0.24	0	0	0	0	0	0
2/10/2025 11:53	13905	SEID_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
2/10/2025 11:54	64101	REFR_T1	3	4	1	0.57	0.5	-0.07	-0.26	-0.18	0	0	0	0	0	0
2/10/2025 11:55	16301	ALPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 11:55	16302	ALPA_T2	5	10	5	0.18	0.33	0.15	-0.49	-0.63	0	0	0	0	0	0
2/10/2025 11:56	60801	BUCK_T1	1	3	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/10/2025 11:56	60803	BUCK_T1	1	10	9	0.1	0.27	0.17	0	0	0	0	0	0	0	0
2/10/2025 11:57	64101	REFR_T1	3	4	1	0.57	0.5	-0.07	-0.09	-0.06	0	0	0	0	0	0
2/10/2025 11:57	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 11:57	16302	ALPA_T2	5	10	5	0.18	0.33	0.15	-0.99	-1.25	0	0	0	0	0	0
2/10/2025 11:57	41602	CLEV_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
2/10/2025 11:58	41602	CLEV_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
2/10/2025 11:58	60803	BUCK_T1	1	10	9	0.1	0.27	0.17	0	0	0	0	0	0	0	0
2/10/2025 11:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 11:58	24402	BELT_T1	2	3	1	3.9	2.87	-1.03	0	0	0	0	0	0	0	0
2/10/2025 11:58	60801	BUCK_T1	1	3	2	0.2	0.4	0.2	-0.11	-0.17	0	0	0	0	0	0
2/10/2025 11:58	29401	BELT_T1	1	11	10	0.1	0.14	0.04	0	0	0	0	0	0	0	0
2/10/2025 11:59	53501	EVIL_T2	2	2	0	0.6	0.8	0.2	-1.11	-1.19	2	2	0	1200	1200	0
2/10/2025 11:59	16302	ALPA_T2	5	10	5	0.18	0.33	0.15	-0.99	-1.25	0	0	0	0	0	0
2/10/2025 11:59	60803	BUCK_T1	1	10	9	0.1	0.27	0.17	-0.51	-0.51	1	1	0	600	600	0
2/10/2025 11:59	60801	BUCK_T1	1	3	2	0.2	0.4	0.2	-0.11	-0.17	0	0	0	0	0	0
2/10/2025 11:59	45501	DERR_T2	0	1	1	0	0.1	0.1	0.3	0.29	2	2	0	1800	1800	0
2/10/2025 12:00	41602	CLEV_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
2/10/2025 12:00	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 12:01	63501	HEID_TBK1-2	1	4	3	1.4	0.5	-0.9	0.51	0.32	2	2	0	1800	1800	0
2/10/2025 12:01	40101	HUNT_T2	15	13	-2	0.89	0.2	-0.69	0	0	0	0	0	0	0	0
2/10/2025 12:01	61504	EPET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 12:03	64202	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/10/2025 12:03	64204	KINZ_T1	20	10	-10	0.45	0.39	-0.06	0	0	0	0	0	0	0	0
2/10/2025 12:03	64203	KINZ_T1	0	0	0	0	0	0	-0.73	-0.89	3	3	0	2100	2100	0
2/10/2025 12:03	63501	HEID_TBK1-2	1	4	3	1.4	0.5	-0.9	0.26	0.16	1	1	0	900	900	0
2/10/2025 12:04	47901	HRDG_T1	0	0	0	0	0	0	0.53	0.6	1	1	0	1200	1200	0
2/10/2025 12:04	25503	MADI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 12:04	25501	MADI_T1	9	9	0	0.72	1	0.28	0	0	0	0	0	0	0	0
2/10/2025 12:04	63501	HEID_TBK1-2	1	4	3	1.4	0.5	-0.9	0.26	0.16	1	1	0	900	900	0
2/10/2025 12:06	66502	SMAN_T2	0	1	1	0	0.1	0.1	0.39	0.31	0	0	0	0	0	0
2/10/2025 12:06	66504	SMAN_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/10/2025 12:06	66505	SMAN_T2	3	3	0	0.3	0.53	0.23	0	0	0	0	0	0	0	0
2/10/2025 12:07	64801	MONE_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/10/2025 12:07	64802	MONE_T2	41	46	5	0.42	0.33	-0.09	-0.76	-0.76	0	0	0	0	0	0
2/10/2025 12:09	60201	ATGL_T2	44	62	18	0.21	0.27	0.06	-0.16	-0.22	0	0	0	0	0	0
2/10/2025 12:09	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/10/2025 12:09	66505	SMAN_T2	3	3	0	0.3	0.53	0.23	0	0	0	0	0	0	0	0
2/10/2025 12:09	66504	SMAN_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
2/10/2025 12:10	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/10/2025 12:10	66504	SMAN_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
2/10/2025 12:10	66505	SMAN_T2	3	3	0	0.3	0.53	0.23	0	0	0	0	0	0	0	0
2/10/2025 12:12	66504	SMAN_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
2/10/2025 12:12	66505	SMAN_T2	3	3	0	0.3	0.53	0.23	0	0	0	0	0	0	0	0
2/10/2025 12:12	60201	ATGL_T2	44	62	18	0.21	0.27	0.06	-0.16	-0.22	0	0	0	0	0	0
2/10/2025 12:12	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/10/2025 12:13	45902	AUBU_T1	1	2	1	0.2	0.2	0	0.01	0.01	1	1	0	600	600	0
2/10/2025 12:13	60201	ATGL_T2	44	62	18	0.21	0.27	0.06	0	0	0	0	0	0	0	0
2/10/2025 12:14	60201	ATGL_T2	44	62	18	0.21	0.27	0.06	0	0	0	0	0	0	0	0
2/10/2025 12:14	41602	CLEV_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
2/10/2025 12:14	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 12:15	41602	CLEV_T1	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
2/10/2025 12:15	11101	EGYP_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/10/2025 12:15	11104	EGYP_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
2/10/2025 12:15	11103	EGYP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 12:15	61505	EPET_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
2/10/2025 12:15	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 12:17	11303	EMMA_T1	2	2	0	1.15	0.55	-0.6	0	0	0	0	0	0	0	0
2/10/2025 12:17	11302	EMMA_T1	1	1	0	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
2/10/2025 12:17	11301	EMMA_T1	0	0	0	0	0	0	-0.79	-0.8	0	0	0	0	0	0
2/10/2025 12:18	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 12:18	41602	CLEV_T1	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
2/10/2025 12:23	65603	QVIL_T2	0	0	0	0	0	0	0.37	0.67	0	0	0	0	0	0
2/10/2025 12:23	65602	QVIL_T2	4	34	30	0.23	0.26	0.03	0	0	0	0	0	0	0	0
2/10/2025 12:23	58402	MORO_T1	0	0	0	0	0	0	-0.84	-0.93	3	3	0	2400	2400	0
2/10/2025 12:23	58401	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/10/2025 12:23	65601	QVIL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/10/2025 12:26	41602	CLEV_T1	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
2/10/2025 12:26	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 12:27	46203	DANV_T2	27	57	30	0.37	0.32	-0.05	-2.28	-2.3	0	0	0	0	0	0
2/10/2025 12:27	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 12:27	59101	WALK_T2	0	0	0	0	0	0	3.9	4.14	0	0	0	0	0	0
2/10/2025 12:27	59102	WALK_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
2/10/2025 12:28	46002	BERW_T2	0	0	0	0	0	0	-1.43	-1.34	1	1	0	900	900	0
2/10/2025 12:28	59102	WALK_T2	1	1	0	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
2/10/2025 12:28	59101	WALK_T2	0	0	0	0	0	0	3.9	4.14	0	0	0	0	0	0
2/10/2025 12:29	41602	CLEV_T1	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
2/10/2025 12:29	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 12:30	41902	REED_T1	0	0	0	0	0	0	0.15	0.13	1	1	0	900	900	0
2/10/2025 12:30	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 12:31	63801	HEMP_T1	5	2	-3	0.42	0.65	0.23	0	0	0	0	0	0	0	0
2/10/2025 12:31	10801	CHHI_T1	0	1	1	0	0	0	-1.48	-1.5	2	2	0	1500	1500	0
2/10/2025 12:31	63803	HEMP_T1	2	1	-1	0.35	0.7	0.35	0.14	0.13	0	0	0	0	0	0
2/10/2025 12:31	62605	ENGL_T1	1	0	-1	0.1	0	-0.1	-3.08	-3.04	0	0	0	0	0	0
2/10/2025 12:31	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/10/2025 12:31	63804	HEMP_T1	1	1	0	6.4	6.6	0.2	0	0	0	0	0	0	0	0
2/10/2025 12:32	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/10/2025 12:32	63804	HEMP_T1	1	1	0	6.4	6.6	0.2	0	0	0	0	0	0	0	0
2/10/2025 12:32	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 12:32	41902	REED_T1	0	0	0	0	0	0	0.15	0.13	1	1	0	900	900	0
2/10/2025 12:32	63801	HEMP_T1	5	2	-3	0.42	0.65	0.23	0	0	0	0	0	0	0	0
2/10/2025 12:32	63803	HEMP_T1	2	1	-1	0.35	0.7	0.35	0.14	0.13	0	0	0	0	0	0
2/10/2025 12:33	46602	LACR_T1	12	7	-5	0.35	0.51	0.16	-0.68	-0.67	0	0	0	0	0	0
2/10/2025 12:34	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 12:34	41902	REED_T1	0	0	0	0	0	0	0.15	0.13	1	1	0	900	900	0
2/10/2025 12:35	41602	CLEV_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/10/2025 12:35	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 12:35	41902	REED_T1	0	0	0	0	0	0	0.15	0.13	1	1	0	900	900	0
2/10/2025 12:35	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 12:36	63602	LETO_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
2/10/2025 12:36	63601	LETO_T1	7	57	50	0.66	0.62	-0.04	0	0	0	0	0	0	0	0
2/10/2025 12:37	63804	HEMP_T1	1	1	0	6.4	6.6	0.2	0	0	0	0	0	0	0	0
2/10/2025 12:37	63803	HEMP_T1	2	1	-1	0.35	0.7	0.35	0.13	0.14	0	0	0	0	0	0
2/10/2025 12:37	63801	HEMP_T1	5	2	-3	0.42	0.65	0.23	0	0	0	0	0	0	0	0
2/10/2025 12:37	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/10/2025 12:37	46002	BERW_T2	0	0	0	0	0	0	-1.34	-1.35	1	1	0	900	900	0
2/10/2025 12:38	59102	WALK_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/10/2025 12:38	59101	WALK_T2	0	0	0	0	0	0	2.07	2.31	0	0	0	0	0	0
2/10/2025 12:39	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 12:40	67402	WAKE_T2	1	0	-1	0.1	0	-0.1	0.41	0.42	1	1	0	600	600	0
2/10/2025 12:40	67401	WAKE_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
2/10/2025 12:42	60801	BUCK_T1	5	1	-4	0.3	0.8	0.5	-0.15	-0.05	0	0	0	0	0	0
2/10/2025 12:42	60803	BUCK_T1	13	7	-6	0.23	0.16	-0.07	0	0	0	0	0	0	0	0
2/10/2025 12:42	41602	CLEV_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/10/2025 12:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 12:43	60801	BUCK_T1	5	1	-4	0.3	0.8	0.5	-0.15	-0.05	0	0	0	0	0	0
2/10/2025 12:43	60803	BUCK_T1	13	7	-6	0.23	0.16	-0.07	0	0	0	0	0	0	0	0
2/10/2025 12:44	61001	DONV_T1	1	0	-1	0.4	0	-0.4	-0.03	0.07	0	0	0	0	0	0
2/10/2025 12:45	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 12:46	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 12:46	53501	EVIL_T2	2	2	0	0.4	1.1	0.7	-1.24	-1.06	2	2	0	1200	1200	0
2/10/2025 12:50	41903	REED_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/10/2025 12:50	41902	REED_T1	0	0	0	0	0	0	0.13	-0.02	1	1	0	900	900	0
2/10/2025 12:51	67203	TEHI_T1	2	2	0	1.15	0.7	-0.45	2.35	2.25	3	3	0	2100	2100	0
2/10/2025 12:58	47203	FAXO_T2	1	1	0	2.3	2.1	-0.2	-1.75	-1.75	1	1	0	1200	1200	0
2/10/2025 12:59	61504	EPET_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
2/10/2025 13:00	61702	ELIZ_T2	4	4	0	0.9	0.9	0	-2.03	-2.04	2	2	0	1500	1500	0
2/10/2025 13:00	61704	ELIZ_T2	5	5	0	0.2	0.36	0.16	0	0	0	0	0	0	0	0
2/10/2025 13:02	63501	HEID_TBK1-2	1	1	0	1	1.2	0.2	0.1	0.18	1	1	0	900	900	0
2/10/2025 13:08	57101	SPHI_T2	6	6	0	0.55	0.55	0	0.29	0.26	0	0	0	0	0	0
2/10/2025 13:08	57106	SPHI_T2	4	4	0	1.4	1.23	-0.17	0	0	0	0	0	0	0	0
2/10/2025 13:08	57104	SPHI_T2	7	4	-3	2.26	1	-1.26	0	0	0	0	0	0	0	0
2/10/2025 13:08	57103	SPHI_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/10/2025 13:08	42601	TUSC_T1	0	0	0	0	0	0	-0.82	-0.83	2	2	0	1800	1800	0
2/10/2025 13:10	57101	SPHI_T2	6	6	0	0.55	0.55	0	0	0	0	0	0	0	0	0
2/10/2025 13:10	57104	SPHI_T2	7	4	-3	2.26	1	-1.26	-1.86	-1.89	1	1	0	900	900	0
2/10/2025 13:10	57106	SPHI_T2	4	4	0	1.4	1.23	-0.17	0	0	0	0	0	0	0	0
2/10/2025 13:10	57103	SPHI_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/10/2025 13:12	57106	SPHI_T2	4	4	0	1.4	1.23	-0.17	0	0	0	0	0	0	0	0
2/10/2025 13:12	57104	SPHI_T2	7	4	-3	2.26	1	-1.26	0	0	0	0	0	0	0	0
2/10/2025 13:12	57103	SPHI_T2	2	1	-1	0.3	0.1	-0.2	-0.95	-0.95	1	1	0	600	600	0
2/10/2025 13:12	57101	SPHI_T2	6	6	0	0.55	0.55	0	0	0	0	0	0	0	0	0
2/10/2025 13:17	41902	REED_T1	0	1	1	0	0.2	0.2	-0.04	0.12	1	1	0	900	900	0
2/10/2025 13:19	13303	ORVI_T1	0	0	0	0	0	0	1.04	1.05	0	0	0	0	0	0
2/10/2025 13:19	47403	PENS_T1	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
2/10/2025 13:19	47401	PENS_T1	2	25	23	0.9	0.48	-0.42	0.9	0.97	0	0	0	0	0	0
2/10/2025 13:20	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/10/2025 13:20	65205	PRIN_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/10/2025 13:22	52501	PROG_T1	0	0	0	0	0	0	0.49	0.54	1	1	0	300	300	0
2/10/2025 13:23	60301	TWVA_T2	0	0	0	0	0	0	-3.1	-3.16	2	2	0	1800	1800	0
2/10/2025 13:23	25503	MADI_T1	8	8	0	0.6	1.07	0.47	0	0	0	0	0	0	0	0
2/10/2025 13:23	52501	PROG_T1	0	0	0	0	0	0	0.49	0.54	1	1	0	300	300	0
2/10/2025 13:23	25503	MADI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 13:23	52402	GRPA_T2	9	7	-2	0.74	0.79	0.05	0	0	0	0	0	0	0	0
2/10/2025 13:23	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 13:23	52403	GRPA_T2	7	7	0	0.67	0.7	0.03	-0.79	-0.81	0	0	0	0	0	0
2/10/2025 13:24	47403	PENS_T1	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
2/10/2025 13:24	47401	PENS_T1	2	25	23	0.9	0.48	-0.42	0.97	1.03	0	0	0	0	0	0
2/10/2025 13:24	52501	PROG_T1	0	0	0	0	0	0	0.49	0.54	1	1	0	300	300	0
2/10/2025 13:25	57101	SPHI_T2	6	6	0	0.38	0.57	0.19	0	0	0	0	0	0	0	0
2/10/2025 13:25	57106	SPHI_T2	4	4	0	1.2	1.28	0.08	0	0	0	0	0	0	0	0
2/10/2025 13:25	57103	SPHI_T2	0	2	2	0	0.1	0.1	-0.95	-0.96	1	1	0	600	600	0
2/10/2025 13:25	57104	SPHI_T2	3	4	1	1.6	0.93	-0.67	0	0	0	0	0	0	0	0
2/10/2025 13:26	52501	PROG_T1	0	0	0	0	0	0	0.49	0.54	1	1	0	300	300	0
2/10/2025 13:28	53501	EVIL_T2	2	2	0	0.9	0.8	-0.1	-1.18	-1.16	2	2	0	1200	1200	0
2/10/2025 13:31	46803	HEPB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/10/2025 13:31	46801	HEPB_T2	1	2	1	0.1	0.25	0.15	0.61	0.61	0	0	0	0	0	0
2/10/2025 13:33	11202	ELHE_T2	0	0	0	0	0	0	0.39	0.39	1	1	0	1200	1200	0
2/10/2025 13:38	55001	NEWP_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/10/2025 13:38	55002	NEWP_T1	5	8	3	1.24	1.1	-0.14	-0.23	-0.21	0	0	0	0	0	0
2/10/2025 13:41	16102	BING_T2	7	8	1	0.97	0.83	-0.14	0	0	0	0	0	0	0	0
2/10/2025 13:41	16101	BING_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
2/10/2025 13:41	16103	BING_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/10/2025 13:43	16102	BING_T2	7	8	1	0.97	0.83	-0.14	0	0	0	0	0	0	0	0
2/10/2025 13:43	16101	BING_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
2/10/2025 13:43	16103	BING_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/10/2025 13:45	24101	EHAZ_T1	78	109	31	1.36	1.5	0.14	0	0	0	0	0	0	0	0
2/10/2025 13:45	24104	EHAZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/10/2025 13:45	24102	EHAZ_T1	35	42	7	1.35	1.37	0.02	0.3	0.28	0	0	0	0	0	0
2/10/2025 13:45	46204	DANV_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/10/2025 13:45	46206	DANV_T2	0	0	0	0	0	0	-0.11	0.92	2	2	0	2100	2100	0
2/10/2025 13:45	24105	EHAZ_T1	16	17	1	2.06	2.41	0.35	0	0	0	0	0	0	0	0
2/10/2025 13:45	24103	EHAZ_T1	5	2	-3	1.1	0.2	-0.9	0	0	0	0	0	0	0	0
2/10/2025 13:45	46203	DANV_T2	66	119	53	0.4	0.59	0.19	0	0	0	0	0	0	0	0
2/10/2025 13:47	46101	MACI_T2	0	0	0	0	0	0	-1.38	-1.63	2	2	0	2400	2400	0
2/10/2025 13:48	40101	HUNT_T2	6	6	0	0.57	0.25	-0.32	-1.23	-1.22	0	0	0	0	0	0
2/10/2025 13:49	55001	NEWP_T1	1	1	0	0.1	0.6	0.5	-0.44	-0.39	0	0	0	0	0	0
2/10/2025 13:49	58201	NEWV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/10/2025 13:49	55002	NEWP_T1	7	7	0	1.21	0.96	-0.25	0	0	0	0	0	0	0	0
2/10/2025 13:49	58202	NEWV_T1	1	0	-1	0.2	0	-0.2	-0.04	-0.09	0	0	0	0	0	0
2/10/2025 13:49	52403	GRPA_T2	6	7	1	0.62	0.77	0.15	-0.81	-0.77	0	0	0	0	0	0
2/10/2025 13:49	52402	GRPA_T2	7	8	1	0.7	0.83	0.13	0	0	0	0	0	0	0	0
2/10/2025 13:50	58201	NEWV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/10/2025 13:50	58202	NEWV_T1	1	0	-1	0.2	0	-0.2	-0.04	-0.09	0	0	0	0	0	0
2/10/2025 13:53	55002	NEWP_T1	7	7	0	1.21	0.96	-0.25	-0.21	-0.21	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/10/2025 13:53	55001	NEWP_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
2/10/2025 13:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 13:59	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 14:01	11301	EMMA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/10/2025 14:01	11303	EMMA_T1	3	2	-1	0.7	0.7	0	0	0	0	0	0	0	0	0
2/10/2025 14:01	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 14:01	11302	EMMA_T1	1	1	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
2/10/2025 14:02	65503	MOJO_T2	0	0	0	0	0	0	-0.76	-0.82	1	1	0	900	900	0
2/10/2025 14:05	41001	LAUR_T2	84	87	3	0.81	0.91	0.1	0	0	0	0	0	0	0	0
2/10/2025 14:05	41002	LAUR_T2	59	55	-4	0.7	0.8	0.1	0	0	0	0	0	0	0	0
2/10/2025 14:06	65503	MOJO_T2	0	0	0	0	0	0	-0.82	-0.81	1	1	0	900	900	0
2/10/2025 14:07	14403	SSLA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 14:08	47403	PENS_T1	1	3	2	2.1	0.87	-1.23	0	0	0	0	0	0	0	0
2/10/2025 14:08	47401	PENS_T1	20	6	-14	0.46	0.87	0.41	0.87	0.98	0	0	0	0	0	0
2/10/2025 14:09	67002	STHI_T2	4	6	2	0.25	0.23	-0.02	0.63	0.65	0	0	0	0	0	0
2/10/2025 14:09	15103	UPHA_T2	9	5	-4	0.4	0.62	0.22	-0.92	-0.93	0	0	0	0	0	0
2/10/2025 14:09	67001	STHI_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
2/10/2025 14:09	55002	NEWP_T1	7	6	-1	0.94	1.1	0.16	-0.21	-0.2	0	0	0	0	0	0
2/10/2025 14:09	14403	SSLA_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
2/10/2025 14:09	55001	NEWP_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/10/2025 14:09	42701	AUGU_T1	2	4	2	0.6	0.43	-0.17	0	0	4	4	0	3600	3600	0
2/10/2025 14:09	67401	WAKE_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
2/10/2025 14:09	67402	WAKE_T2	0	2	2	0	0.3	0.3	0.4	-0.11	1	1	0	600	600	0
2/10/2025 14:12	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 14:13	10801	CHHI_T1	2	33	31	0.3	0.27	-0.03	-1.6	-1.62	2	2	0	1500	1500	0
2/10/2025 14:14	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 14:15	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 14:16	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 14:16	61001	DONV_T1	1	1	0	0.2	0.1	-0.1	0.06	0	0	0	0	0	0	0
2/10/2025 14:21	67001	STHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/10/2025 14:21	52403	GRPA_T2	6	11	5	0.75	0.54	-0.21	-0.7	-0.71	0	0	0	0	0	0
2/10/2025 14:21	52402	GRPA_T2	8	9	1	0.64	0.69	0.05	0	0	0	0	0	0	0	0
2/10/2025 14:21	67002	STHI_T2	4	4	0	0.2	0.25	0.05	0.65	0.61	0	0	0	0	0	0
2/10/2025 14:22	52402	GRPA_T2	8	9	1	0.64	0.69	0.05	0	0	0	0	0	0	0	0
2/10/2025 14:22	52403	GRPA_T2	6	11	5	0.75	0.54	-0.21	0	0	0	0	0	0	0	0
2/10/2025 14:22	52401	GRPA_T2	0	0	0	0	0	0	-1.64	-1.68	0	0	0	0	0	0
2/10/2025 14:23	66901	SHIL_T2	1	1	0	0.3	0.5	0.2	-1.63	-1.63	1	1	0	1200	1200	0
2/10/2025 14:23	67001	STHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/10/2025 14:23	57106	SPHI_T2	3	4	1	1.8	1.8	0	0	0	0	0	0	0	0	0
2/10/2025 14:23	57103	SPHI_T2	2	1	-1	0.2	0.2	0	-1.97	-1.97	2	2	0	1200	1200	0
2/10/2025 14:23	57104	SPHI_T2	4	4	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
2/10/2025 14:23	67002	STHI_T2	4	4	0	0.2	0.25	0.05	0.65	0.61	0	0	0	0	0	0
2/10/2025 14:23	66902	SHIL_T2	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
2/10/2025 14:23	57101	SPHI_T2	6	6	0	0.72	0.82	0.1	0	0	0	0	0	0	0	0
2/10/2025 14:24	57101	SPHI_T2	6	6	0	0.72	0.82	0.1	0	0	0	0	0	0	0	0
2/10/2025 14:24	67002	STHI_T2	4	4	0	0.2	0.25	0.05	1.3	1.22	0	0	0	0	0	0
2/10/2025 14:24	66901	SHIL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/10/2025 14:24	58001	WCAR_T1	3	4	1	0.43	0.58	0.15	0	0	0	0	0	0	0	0
2/10/2025 14:24	67001	STHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/10/2025 14:24	57104	SPHI_T2	4	4	0	0.75	0.8	0.05	-1.91	-1.93	1	1	0	900	900	0
2/10/2025 14:24	57106	SPHI_T2	3	4	1	1.8	1.8	0	0	0	0	0	0	0	0	0
2/10/2025 14:24	57103	SPHI_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/10/2025 14:24	58003	WCAR_T1	3	1	-2	0.7	1.8	1.1	0	0	1	1	0	600	600	0
2/10/2025 14:24	66903	SHIL_T2	0	0	0	0	0	0	-1.24	-1.19	0	0	0	0	0	0
2/10/2025 14:24	66902	SHIL_T2	0	0	0	0	0	0	-2.05	-2.04	0	0	0	0	0	0
2/10/2025 14:25	57103	SPHI_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/10/2025 14:25	66903	SHIL_T2	0	0	0	0	0	0	-1.24	-1.19	0	0	0	0	0	0
2/10/2025 14:25	58003	WCAR_T1	3	1	-2	0.7	1.8	1.1	0	0	0	0	0	0	0	0
2/10/2025 14:25	66901	SHIL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/10/2025 14:25	57101	SPHI_T2	6	6	0	0.72	0.82	0.1	0	0	0	0	0	0	0	0
2/10/2025 14:25	57106	SPHI_T2	3	4	1	1.8	1.8	0	0	0	0	0	0	0	0	0
2/10/2025 14:25	58001	WCAR_T1	3	4	1	0.43	0.58	0.15	0	0	0	0	0	0	0	0
2/10/2025 14:25	57104	SPHI_T2	4	4	0	0.75	0.8	0.05	-3.83	-3.87	2	2	0	1800	1800	0
2/10/2025 14:26	66901	SHIL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/10/2025 14:26	57103	SPHI_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/10/2025 14:26	67001	STHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/10/2025 14:26	57104	SPHI_T2	4	4	0	0.75	0.8	0.05	-1.91	-1.93	1	1	0	900	900	0
2/10/2025 14:26	66903	SHIL_T2	0	0	0	0	0	0	-1.24	-1.19	0	0	0	0	0	0
2/10/2025 14:26	57106	SPHI_T2	3	4	1	1.8	1.8	0	0	0	0	0	0	0	0	0
2/10/2025 14:26	67002	STHI_T2	4	4	0	0.2	0.25	0.05	0.65	0.61	0	0	0	0	0	0
2/10/2025 14:26	57101	SPHI_T2	6	6	0	0.72	0.82	0.1	0	0	0	0	0	0	0	0
2/10/2025 14:27	57103	SPHI_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/10/2025 14:27	57106	SPHI_T2	3	4	1	1.8	1.8	0	0	0	0	0	0	0	0	0
2/10/2025 14:27	57104	SPHI_T2	4	4	0	0.75	0.8	0.05	-5.74	-5.8	3	3	0	2700	2700	0
2/10/2025 14:27	57101	SPHI_T2	6	6	0	0.72	0.82	0.1	0	0	0	0	0	0	0	0
2/10/2025 14:28	58003	WCAR_T1	3	1	-2	0.7	1.8	1.1	0	0	0	0	0	0	0	0
2/10/2025 14:28	58001	WCAR_T1	3	4	1	0.43	0.58	0.15	0.57	0.56	0	0	0	0	0	0
2/10/2025 14:29	58003	WCAR_T1	3	1	-2	0.7	1.8	1.1	0	0	1	1	0	600	600	0
2/10/2025 14:29	58001	WCAR_T1	3	4	1	0.43	0.58	0.15	0	0	0	0	0	0	0	0
2/10/2025 14:30	57106	SPHI_T2	3	4	1	1.8	1.9	0.1	0	0	0	0	0	0	0	0
2/10/2025 14:30	57101	SPHI_T2	6	6	0	0.68	0.83	0.15	0	0	0	0	0	0	0	0
2/10/2025 14:30	57104	SPHI_T2	2	4	2	1.1	1.18	0.08	0	0	0	0	0	0	0	0
2/10/2025 14:30	57103	SPHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/10/2025 14:31	62106	ELAN_T1	1	1	0	0.4	0.4	0	0.31	0.29	0	0	0	0	0	0
2/10/2025 14:31	62102	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/10/2025 14:35	12604	MACA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/10/2025 14:35	12601	MACA_T1	1	1	0	0.7	0.8	0.1	0.82	0.78	0	0	0	0	0	0
2/10/2025 14:35	64101	REFR_T1	3	3	0	0.23	0.4	0.17	-0.08	-0.08	0	0	0	0	0	0
2/10/2025 14:35	12602	MACA_T1	82	101	19	0.24	0.33	0.09	0	0	0	0	0	0	0	0
2/10/2025 14:40	64101	REFR_T1	3	3	0	0.23	0.4	0.17	0	0	0	0	0	0	0	0
2/10/2025 14:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 14:41	57104	SPHI_T2	2	4	2	1.1	1.18	0.08	-1.93	-1.9	1	1	0	900	900	0
2/10/2025 14:41	57101	SPHI_T2	6	6	0	0.68	0.83	0.15	0	0	0	0	0	0	0	0
2/10/2025 14:41	57106	SPHI_T2	3	4	1	1.8	1.9	0.1	0	0	0	0	0	0	0	0
2/10/2025 14:41	57103	SPHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/10/2025 14:42	57104	SPHI_T2	2	4	2	1.1	1.18	0.08	0	0	0	0	0	0	0	0
2/10/2025 14:42	57103	SPHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/10/2025 14:42	57106	SPHI_T2	3	4	1	1.8	1.9	0.1	0	0	0	0	0	0	0	0
2/10/2025 14:42	57101	SPHI_T2	6	6	0	0.68	0.83	0.15	0	0	0	0	0	0	0	0
2/10/2025 14:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 14:43	10805	CHHI_T2	6	1	-5	1.47	7.7	6.23	-1.59	-1	1	0	-1	600	0	-600
2/10/2025 14:43	13904	SEID_T1	1	11	10	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/10/2025 14:43	13901	SEID_T1	0	0	0	0	0	0	-0.52	-0.73	1	1	0	1200	1200	0
2/10/2025 14:44	62106	ELAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/10/2025 14:44	62102	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/10/2025 14:44	45501	DERR_T2	0	0	0	0	0	0	0.29	0.28	2	2	0	1800	1800	0
2/10/2025 14:45	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 14:45	44505	HAMI_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
2/10/2025 14:45	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/10/2025 14:45	44502	HAMI_T2	1	1	0	3.3	3.5	0.2	0	0	0	0	0	0	0	0
2/10/2025 14:45	44504	HAMI_T2	0	0	0	0	0	0	-1.02	-0.9	0	0	0	0	0	0
2/10/2025 14:47	12601	MACA_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
2/10/2025 14:47	54505	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/10/2025 14:47	54504	ENOL_T2	0	0	0	0	0	0	-1.06	-0.96	1	1	0	600	600	0
2/10/2025 14:47	12605	MACA_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
2/10/2025 14:47	62106	ELAN_T1	1	1	0	0.4	0.3	-0.1	0.29	0.28	0	0	0	0	0	0
2/10/2025 14:47	12602	MACA_T1	76	104	28	0.32	0.32	0	0	0	0	0	0	0	0	0
2/10/2025 14:49	12605	MACA_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
2/10/2025 14:49	12602	MACA_T1	76	104	28	0.32	0.32	0	0	0	0	0	0	0	0	0
2/10/2025 14:49	12601	MACA_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
2/10/2025 14:50	64101	REFR_T1	1	3	2	0.1	0.53	0.43	-0.08	-0.1	0	0	0	0	0	0
2/10/2025 14:51	12602	MACA_T1	76	104	28	0.32	0.32	0	0	0	0	0	0	0	0	0
2/10/2025 14:51	12601	MACA_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
2/10/2025 14:55	44301	BEAV_T2	0	0	0	0	0	0	-0.35	-0.28	1	1	0	600	600	0
2/10/2025 14:56	44301	BEAV_T2	0	0	0	0	0	0	-0.35	-0.28	1	1	0	600	600	0
2/10/2025 14:59	63501	HEID_TBK1-2	2	1	-1	0.75	0.5	-0.25	0.23	0.19	1	1	0	900	900	0
2/10/2025 14:59	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 15:02	63501	HEID_TBK1-2	1	1	0	0.5	0.6	0.1	0.23	0.19	1	1	0	900	900	0
2/10/2025 15:03	59003	MIFF_T1	1	0	-1	0.2	0	-0.2	-1.4	-0.14	0	0	0	0	0	0
2/10/2025 15:03	12602	MACA_T1	101	159	58	0.32	0.34	0.02	-2.06	-2.05	0	0	0	0	0	0
2/10/2025 15:03	12601	MACA_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/10/2025 15:06	55002	NEWP_T1	6	6	0	1.17	1.22	0.05	-0.46	-0.45	0	0	0	0	0	0
2/10/2025 15:06	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/10/2025 15:07	12601	MACA_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/10/2025 15:07	12602	MACA_T1	101	159	58	0.32	0.34	0.02	-2.05	-2.05	0	0	0	0	0	0
2/10/2025 15:10	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 15:10	24902	WHHA_T1	4	3	-1	0.53	0.37	-0.16	0	0	0	0	0	0	0	0
2/10/2025 15:10	24901	WHHA_T1	0	1	1	0	0.4	0.4	-0.76	-0.75	0	0	0	0	0	0
2/10/2025 15:18	53501	EVIL_T2	1	2	1	1	0.6	-0.4	-1.4	-1.59	2	2	0	1200	1200	0
2/10/2025 15:20	64101	REFR_T1	1	1	0	1.3	1.2	-0.1	-0.1	-0.09	0	0	0	0	0	0
2/10/2025 15:21	64101	REFR_T1	1	1	0	1.3	1.2	-0.1	-0.09	-0.05	0	0	0	0	0	0
2/10/2025 15:22	55002	NEWP_T1	6	4	-2	1.22	0.73	-0.49	-0.24	-0.25	0	0	0	0	0	0
2/10/2025 15:22	64101	REFR_T1	1	1	0	1.3	1.2	-0.1	-0.09	-0.05	0	0	0	0	0	0
2/10/2025 15:22	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/10/2025 15:23	64101	REFR_T1	1	1	0	1.3	1.2	-0.1	-0.27	-0.16	0	0	0	0	0	0
2/10/2025 15:24	64101	REFR_T1	1	1	0	1.3	1.2	-0.1	-0.36	-0.21	0	0	0	0	0	0
2/10/2025 15:26	64101	REFR_T1	1	1	0	1.3	1.2	-0.1	-0.09	-0.05	0	0	0	0	0	0
2/10/2025 15:29	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 15:35	52403	GRPA_T2	6	7	1	0.53	0.7	0.17	-0.73	-0.71	0	0	0	0	0	0
2/10/2025 15:35	52402	GRPA_T2	3	23	20	0.13	0.24	0.11	0	0	0	0	0	0	0	0
2/10/2025 15:35	52401	GRPA_T2	0	0	0	0	0	0	-0.82	-0.77	0	0	0	0	0	0
2/10/2025 15:37	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 15:37	43801	SWIL_T1	2	2	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
2/10/2025 15:40	52402	GRPA_T2	3	23	20	0.13	0.24	0.11	0	0	0	0	0	0	0	0
2/10/2025 15:40	52403	GRPA_T2	6	7	1	0.53	0.7	0.17	-0.71	-0.63	0	0	0	0	0	0
2/10/2025 15:45	46004	BERW_T2	0	5	5	0	0.8	0.8	-0.44	-0.49	0	0	0	0	0	0
2/10/2025 15:53	64101	REFR_T1	1	0	-1	0.6	0	-0.6	-0.05	-0.05	0	0	0	0	0	0
2/10/2025 16:12	45902	AUBU_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/10/2025 16:12	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
2/10/2025 16:13	45902	AUBU_T1	0	2	2	0	0.15	0.15	0.01	0.01	1	1	0	600	600	0
2/10/2025 16:19	10401	LIGA_T1	9	0	-9	0.14	0	-0.14	0	0	0	0	0	0	0	0
2/10/2025 16:35	52402	GRPA_T2	26	6	-20	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/10/2025 16:35	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/10/2025 16:35	52403	GRPA_T2	20	8	-12	0.72	0.15	-0.57	-0.62	-0.76	0	0	0	0	0	0
2/10/2025 16:35	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/10/2025 16:44	46004	BERW_T2	7	1	-6	0.54	0	-0.54	-0.5	-0.5	0	0	0	0	0	0
2/10/2025 16:56	67605	WARW_T1	0	0	0	0	0	0	-0.94	-0.96	0	0	0	0	0	0
2/10/2025 17:04	20601	GRWO_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 17:04	20603	GRWO_T2	0	0	0	0	0	0	-0.53	-0.54	1	1	0	900	900	0
2/10/2025 17:22	60803	BUCK_T1	0	0	0	0	0	0	-0.51	-0.51	1	1	0	600	600	0
2/10/2025 17:25	60301	TWVA_T2	0	0	0	0	0	0	-3.25	-3.23	2	2	0	1800	1800	0
2/10/2025 18:06	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 18:25	67702	WERN_T2	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
2/10/2025 18:43	59002	MIFF_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
2/10/2025 18:43	59003	MIFF_T1	1	3	2	0.5	0.2	-0.3	0.46	-0.29	0	0	0	0	0	0
2/10/2025 19:25	12602	MACA_T1	4	5	1	0.13	0.18	0.05	0	0	0	0	0	0	0	0
2/10/2025 19:25	12605	MACA_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
2/10/2025 19:27	46203	DANV_T2	65	89	24	0.63	0.64	0.01	0	0	0	0	0	0	0	0
2/10/2025 19:27	46204	DANV_T2	79	39	-40	0.46	0.4	-0.06	0	0	0	0	0	0	0	0
2/10/2025 19:27	24901	WHHA_T1	6	0	-6	0.45	0	-0.45	-0.65	-0.67	0	0	0	0	0	0
2/10/2025 19:27	24902	WHHA_T1	32	28	-4	0.76	0.85	0.09	0	0	0	0	0	0	0	0
2/10/2025 19:27	46206	DANV_T2	2	13	11	0.3	0.38	0.08	1.32	1.38	2	2	0	2100	2100	0
2/10/2025 19:28	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/10/2025 19:29	10801	CHHI_T1	2	1	-1	0.8	0	-0.8	-2.02	-2.03	3	3	0	2100	2100	0
2/10/2025 19:30	20401	ASHF_T2	1	1	0	0.6	0	-0.6	-0.2	-0.23	1	1	0	600	600	0
2/10/2025 19:30	20402	ASHF_T2	70	104	34	0.45	0.42	-0.03	0	0	0	0	0	0	0	0
2/10/2025 19:31	52502	PROG_T2	0	0	0	0	0	0	-0.4	-0.43	1	1	0	900	900	0
2/10/2025 19:31	55001	NEWP_T1	0	0	0	0	0	0	-0.28	-0.25	0	0	0	0	0	0
2/10/2025 19:31	55002	NEWP_T1	2	4	2	0.95	0.63	-0.32	0	0	0	0	0	0	0	0
2/10/2025 19:32	46002	BERW_T2	0	0	0	0	0	0	-1.09	-1.08	1	1	0	900	900	0
2/10/2025 19:32	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
2/10/2025 19:32	46004	BERW_T2	15	13	-2	0.95	1	0.05	0	0	0	0	0	0	0	0
2/10/2025 19:33	14403	SSLA_T1	4	6	2	0.63	0.35	-0.28	0	0	0	0	0	0	0	0
2/10/2025 19:33	14401	SSLA_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:33	26401	INOR_T1	93	106	13	0.86	1.08	0.22	0	0	0	0	0	0	0	0
2/10/2025 19:33	26402	INOR_T1	3	4	1	0.1	0.25	0.15	-1.92	-1.93	1	1	0	600	600	0
2/10/2025 19:33	14402	SSLA_T1	11	8	-3	0.49	0	-0.49	0	0	0	0	0	0	0	0
2/10/2025 19:34	24102	EHAZ_T1	8	7	-1	0.55	0.28	-0.27	-0.78	-0.71	0	0	0	0	0	0
2/10/2025 19:34	29402	BELT_T1	5	6	1	1.98	1.46	-0.52	0	0	0	0	0	0	0	0
2/10/2025 19:34	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/10/2025 19:34	24103	EHAZ_T1	4	9	5	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/10/2025 19:34	24101	EHAZ_T1	14	15	1	0.34	0.8	0.46	0	0	0	0	0	0	0	0
2/10/2025 19:34	40101	HUNT_T2	5	13	8	0.88	0.57	-0.31	-1.98	-1.94	0	0	0	0	0	0
2/10/2025 19:34	24105	EHAZ_T1	16	31	15	2.57	2.24	-0.33	0	0	0	0	0	0	0	0
2/10/2025 19:35	29402	BELT_T1	5	6	1	1.98	1.46	-0.52	0	0	0	0	0	0	0	0
2/10/2025 19:35	46101	MACI_T2	0	0	0	0	0	0	-0.55	-0.55	1	1	0	1200	1200	0
2/10/2025 19:35	16302	ALPA_T2	0	0	0	0	0	0	-0.45	-0.39	0	0	0	0	0	0
2/10/2025 19:35	22301	JEFF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:35	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/10/2025 19:36	62605	ENGL_T1	0	0	0	0	0	0	-1.47	-1.45	0	0	0	0	0	0
2/10/2025 19:36	57101	SPHI_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
2/10/2025 19:36	57104	SPHI_T2	3	2	-1	4.1	3.4	-0.7	0	0	0	0	0	0	0	0
2/10/2025 19:36	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/10/2025 19:36	67002	STHI_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
2/10/2025 19:36	57106	SPHI_T2	3	3	0	0.47	0.6	0.13	0	0	0	0	0	0	0	0
2/10/2025 19:36	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
2/10/2025 19:37	42701	AUGU_T1	7	8	1	0.56	0.7	0.14	0	0	0	0	0	0	0	0
2/10/2025 19:37	43202	MVIL_T2	3	1	-2	0.53	0	-0.53	-0.61	-0.62	0	0	0	0	0	0
2/10/2025 19:37	12602	MACA_T1	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0	0
2/10/2025 19:37	13905	SEID_T1	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
2/10/2025 19:37	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1.02	0	0	0	0	0	0
2/10/2025 19:37	46203	DANV_T2	53	92	39	0.65	0.65	0	0	0	0	0	0	0	0	0
2/10/2025 19:37	24902	WHHA_T1	25	37	12	0.82	0.83	0.01	0.13	0.16	0	0	0	0	0	0
2/10/2025 19:37	16302	ALPA_T2	0	0	0	0	0	0	-0.39	-0.45	0	0	0	0	0	0
2/10/2025 19:37	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:37	13901	SEID_T1	0	0	0	0	0	0	-0.88	-0.87	1	1	0	1200	1200	0
2/10/2025 19:37	43201	MVIL_T2	4	3	-1	0.38	0.15	-0.23	0	0	0	0	0	0	0	0
2/10/2025 19:37	12605	MACA_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
2/10/2025 19:37	46204	DANV_T2	39	52	13	0.42	0.43	0.01	0	0	0	0	0	0	0	0
2/10/2025 19:37	13904	SEID_T1	63	61	-2	1.61	1.37	-0.24	0	0	0	0	0	0	0	0
2/10/2025 19:37	46206	DANV_T2	11	8	-3	0.35	0.37	0.02	1.38	1.38	2	2	0	2100	2100	0
2/10/2025 19:37	12606	MACA_T1	0	13	13	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:38	66902	SHIL_T2	0	0	0	0	0	0	-1.95	-1.97	0	0	0	0	0	0
2/10/2025 19:38	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	2	2	0	1200	1200	0
2/10/2025 19:38	66901	SHIL_T2	0	0	0	0	0	0	-1.48	-1.54	1	1	0	1200	1200	0
2/10/2025 19:38	46602	LACR_T1	0	0	0	0	0	0	-0.63	-0.59	0	0	0	0	0	0
2/10/2025 19:38	63501	HEID_TBK1-2	3	8	5	0.17	0.14	-0.03	-0.48	-0.49	1	1	0	900	900	0
2/10/2025 19:38	43304	WATS_T2	1	1	0	0.3	0	-0.3	-0.7	-0.72	0	0	0	0	0	0
2/10/2025 19:38	40602	PIGR_T1	2	3	1	0.15	0.33	0.18	0	0	0	0	0	0	0	0
2/10/2025 19:38	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
2/10/2025 19:38	42701	AUGU_T1	7	8	1	0.56	0.7	0.14	0	0	1	1	0	600	600	0
2/10/2025 19:38	44301	BEAV_T2	0	0	0	0	0	0	0.2	0.12	1	1	0	600	600	0
2/10/2025 19:38	40601	PIGR_T1	48	47	-1	0.24	0.25	0.01	0	0	0	0	0	0	0	0
2/10/2025 19:38	46803	HEPB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:39	24902	WHHA_T1	25	37	12	0.82	0.83	0.01	0.13	0.16	0	0	0	0	0	0
2/10/2025 19:39	16102	BING_T2	1	1	0	4.2	4.8	0.6	0	0	0	0	0	0	0	0
2/10/2025 19:39	40101	HUNT_T2	5	13	8	0.88	0.57	-0.31	-1.94	-1.97	0	0	0	0	0	0
2/10/2025 19:39	13103	NHAM_T2	0	0	0	0	0	0	-1.47	-1.56	1	1	0	600	600	0
2/10/2025 19:39	43801	SWIL_T1	2	2	0	3.1	3.1	0	0	0	0	0	0	0	0	0
2/10/2025 19:39	13105	NHAM_T2	22	29	7	0.72	1.08	0.36	0	0	0	0	0	0	0	0
2/10/2025 19:39	52501	PROG_T1	40	47	7	0.11	0.11	0	-0.8	-0.81	1	1	0	300	300	0
2/10/2025 19:39	16302	ALPA_T2	0	0	0	0	0	0	-0.39	-0.45	0	0	0	0	0	0
2/10/2025 19:39	45501	DERR_T2	0	0	0	0	0	0	0.56	0.51	4	4	0	3600	3600	0
2/10/2025 19:39	16103	BING_T2	0	0	0	0	0	0	-1.49	-1.5	1	1	0	900	900	0
2/10/2025 19:39	10805	CHHI_T2	13	13	0	2.75	2.64	-0.11	-1.45	-1.49	1	1	0	600	600	0
2/10/2025 19:39	45502	DERR_T2	6	7	1	0.7	0.62	-0.08	0	0	0	0	0	0	0	0
2/10/2025 19:39	64203	KINZ_T1	0	0	0	0	0	0	-0.44	-0.47	1	1	0	600	600	0
2/10/2025 19:39	15103	UPHA_T2	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
2/10/2025 19:39	55002	NEWP_T1	2	4	2	0.95	0.63	-0.32	-0.2	-0.19	0	0	0	0	0	0
2/10/2025 19:39	64204	KINZ_T1	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
2/10/2025 19:39	47401	PENS_T1	0	0	0	0	0	0	0.95	0.88	0	0	0	0	0	0
2/10/2025 19:39	43304	WATS_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/10/2025 19:39	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:39	46004	BERW_T2	15	13	-2	0.95	1	0.05	-0.46	-0.47	0	0	0	0	0	0
2/10/2025 19:39	44301	BEAV_T2	0	0	0	0	0	0	0.2	0.12	1	1	0	600	600	0
2/10/2025 19:39	41602	CLEV_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
2/10/2025 19:39	13303	ORVI_T1	0	0	0	0	0	0	0.88	0.84	0	0	0	0	0	0
2/10/2025 19:40	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:40	42701	AUGU_T1	7	8	1	0.56	0.7	0.14	0	0	2	2	0	1200	1200	0
2/10/2025 19:40	46204	DANV_T2	39	52	13	0.42	0.43	0.01	0	0	0	0	0	0	0	0
2/10/2025 19:40	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:40	66903	SHIL_T2	0	0	0	0	0	0	-1.24	-1.26	0	0	0	0	0	0
2/10/2025 19:40	63501	HEID_TBK1-2	3	8	5	0.17	0.14	-0.03	-0.48	-0.49	1	1	0	900	900	0
2/10/2025 19:40	48302	ORWI_T2	7	7	0	1.3	0.18	-1.12	0	0	0	0	0	0	0	0
2/10/2025 19:40	54201	PENN_T1	3	4	1	1.43	1.13	-0.3	0	0	0	0	0	0	0	0
2/10/2025 19:40	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	2	2	0	1200	1200	0
2/10/2025 19:40	54203	PENN_T1	11	5	-6	0.36	0.7	0.34	0.64	0.61	0	0	0	0	0	0
2/10/2025 19:40	46203	DANV_T2	53	92	39	0.65	0.65	0	-6.06	-5.99	0	0	0	0	0	0
2/10/2025 19:40	41902	REED_T1	2	3	1	0.95	1	0.05	0	0	0	0	0	0	0	0
2/10/2025 19:40	46206	DANV_T2	11	8	-3	0.35	0.37	0.02	0	0	0	0	0	0	0	0
2/10/2025 19:40	60201	ATGL_T2	0	3	3	0	0.13	0.13	0.03	0.03	0	0	0	0	0	0
2/10/2025 19:41	53502	EVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/10/2025 19:41	65601	QVIL_T2	0	0	0	0	0	0	-1.08	-1.11	1	1	0	900	900	0
2/10/2025 19:41	54201	PENN_T1	3	4	1	1.43	1.13	-0.3	-1.41	-1.41	0	0	0	0	0	0
2/10/2025 19:41	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:41	42601	TUSC_T1	71	75	4	1.03	0.86	-0.17	-0.29	-0.26	2	2	0	1800	1800	0
2/10/2025 19:41	46206	DANV_T2	11	8	-3	0.35	0.37	0.02	0	0	0	0	0	0	0	0
2/10/2025 19:41	10801	CHHI_T1	0	1	1	0	0	0	-2.03	-2.06	3	3	0	2100	2100	0
2/10/2025 19:41	12606	MACA_T1	0	13	13	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:41	53501	EVIL_T2	0	0	0	0	0	0	-0.78	-0.76	1	1	0	600	600	0
2/10/2025 19:41	52403	GRPA_T2	5	2	-3	0.6	1.2	0.6	-0.37	-0.42	0	0	0	0	0	0
2/10/2025 19:41	46204	DANV_T2	39	52	13	0.42	0.43	0.01	0	0	0	0	0	0	0	0
2/10/2025 19:41	45902	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:41	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:41	65604	QVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/10/2025 19:41	54203	PENN_T1	11	5	-6	0.36	0.7	0.34	0	0	0	0	0	0	0	0
2/10/2025 19:41	52502	PROG_T2	0	0	0	0	0	0	-0.43	-0.44	1	1	0	900	900	0
2/10/2025 19:41	12602	MACA_T1	5	5	0	0.18	0.18	0	-4.04	-4.02	0	0	0	0	0	0
2/10/2025 19:41	46203	DANV_T2	53	92	39	0.65	0.65	0	-6.06	-5.99	0	0	0	0	0	0
2/10/2025 19:41	52404	GRPA_T2	1	1	0	0.1	0.3	0.2	-0.25	-0.27	0	0	0	0	0	0
2/10/2025 19:41	10705	CATA_T2	0	0	0	0	0	0	-2.15	-2.13	1	1	0	900	900	0
2/10/2025 19:41	25501	MADI_T1	269	180	-89	0.73	0.69	-0.04	0	0	0	0	0	0	0	0
2/10/2025 19:41	25503	MADI_T1	9	30	21	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
2/10/2025 19:41	62605	ENGL_T1	0	0	0	0	0	0	-1.47	-1.45	0	0	0	0	0	0
2/10/2025 19:41	16302	ALPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:41	52402	GRPA_T2	2	6	4	0.15	0.6	0.45	0	0	0	0	0	0	0	0
2/10/2025 19:42	40101	HUNT_T2	5	13	8	0.88	0.57	-0.31	-1.94	-1.97	0	0	0	0	0	0
2/10/2025 19:42	62105	ELAN_T1	0	0	0	0	0	0	1.03	0.97	0	0	0	0	0	0
2/10/2025 19:42	20403	ASHF_T2	0	0	0	0	0	0	0.46	0.51	0	0	0	0	0	0
2/10/2025 19:42	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:42	44503	HAMI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:42	41002	LAUR_T2	7	9	2	0.44	0.37	-0.07	0	0	0	0	0	0	0	0
2/10/2025 19:42	54201	PENN_T1	3	4	1	1.43	1.13	-0.3	-1.41	-1.41	0	0	0	0	0	0
2/10/2025 19:42	40601	PIGR_T1	48	47	-1	0.24	0.25	0.01	-0.11	-0.15	0	0	0	0	0	0
2/10/2025 19:42	44502	HAMI_T2	1	2	1	2.2	2.4	0.2	0	0	0	0	0	0	0	0
2/10/2025 19:42	54203	PENN_T1	11	5	-6	0.36	0.7	0.34	0	0	0	0	0	0	0	0
2/10/2025 19:42	63804	HEMP_T1	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
2/10/2025 19:42	44504	HAMI_T2	0	0	0	0	0	0	-1.13	-1.12	0	0	0	0	0	0
2/10/2025 19:42	65503	MOJO_T2	0	0	0	0	0	0	-1	-1.04	1	1	0	900	900	0
2/10/2025 19:42	52404	GRPA_T2	1	1	0	0.1	0.3	0.2	-0.25	-0.27	0	0	0	0	0	0
2/10/2025 19:42	62106	ELAN_T1	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
2/10/2025 19:42	41001	LAUR_T2	1	2	1	2.9	1.9	-1	0	0	0	0	0	0	0	0
2/10/2025 19:42	40602	PIGR_T1	2	3	1	0.15	0.33	0.18	0	0	0	0	0	0	0	0
2/10/2025 19:42	52402	GRPA_T2	2	6	4	0.15	0.6	0.45	0	0	0	0	0	0	0	0
2/10/2025 19:42	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
2/10/2025 19:42	20402	ASHF_T2	70	104	34	0.45	0.42	-0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/10/2025 19:42	63802	HEMP_T1	0	0	0	0	0	0	0.17	0.13	0	0	0	0	0	0
2/10/2025 19:42	63803	HEMP_T1	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
2/10/2025 19:42	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/10/2025 19:42	20401	ASHF_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/10/2025 19:42	52403	GRPA_T2	5	2	-3	0.6	1.2	0.6	0	0	0	0	0	0	0	0
2/10/2025 19:43	54201	PENN_T1	3	4	1	1.43	1.13	-0.3	-1.41	-1.41	0	0	0	0	0	0
2/10/2025 19:43	57106	SPHI_T2	3	3	0	0.47	0.6	0.13	0	0	0	0	0	0	0	0
2/10/2025 19:43	46802	HEPB_T1	1	1	0	0.9	0.9	0	-1.24	-1.24	0	0	0	0	0	0
2/10/2025 19:43	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:43	57104	SPHI_T2	3	2	-1	4.1	3.4	-0.7	-1.83	-1.83	1	1	0	900	900	0
2/10/2025 19:43	20401	ASHF_T2	1	1	0	0.6	0	-0.6	-0.23	-0.22	1	1	0	600	600	0
2/10/2025 19:43	45501	DERR_T2	0	0	0	0	0	0	0.28	0.26	2	2	0	1800	1800	0
2/10/2025 19:43	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
2/10/2025 19:43	54203	PENN_T1	11	5	-6	0.36	0.7	0.34	0	0	0	0	0	0	0	0
2/10/2025 19:43	59101	WALK_T2	0	0	0	0	0	0	1.03	1.35	0	0	0	0	0	0
2/10/2025 19:43	64101	REFR_T1	0	0	0	0	0	0	0.04	-0.02	0	0	0	0	0	0
2/10/2025 19:43	64801	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:43	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:43	47802	MOCA_T2	0	2	2	0	0.6	0.6	-0.9	-0.92	0	0	0	0	0	0
2/10/2025 19:43	20603	GRWO_T2	7	0	-7	0.24	0	-0.24	-0.5	-0.5	1	1	0	900	900	0
2/10/2025 19:43	58003	WCAR_T1	1	1	0	1.1	1.2	0.1	-0.09	-0.09	1	1	0	600	600	0
2/10/2025 19:43	64802	MONE_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
2/10/2025 19:43	10805	CHHI_T2	13	13	0	2.75	2.64	-0.11	-2.9	-2.98	2	2	0	1200	1200	0
2/10/2025 19:43	10801	CHHI_T1	0	1	1	0	0	0	-2.03	-2.06	3	3	0	2100	2100	0
2/10/2025 19:43	20402	ASHF_T2	70	104	34	0.45	0.42	-0.03	0	0	0	0	0	0	0	0
2/10/2025 19:43	45502	DERR_T2	6	7	1	0.7	0.62	-0.08	0	0	0	0	0	0	0	0
2/10/2025 19:43	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:43	16302	ALPA_T2	0	0	0	0	0	0	-0.39	-0.45	0	0	0	0	0	0
2/10/2025 19:43	20601	GRWO_T2	9	11	2	1.12	1.58	0.46	0	0	0	0	0	0	0	0
2/10/2025 19:43	11302	EMMA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:43	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:43	40101	HUNT_T2	5	13	8	0.88	0.57	-0.31	0	0	0	0	0	0	0	0
2/10/2025 19:43	61504	EPET_T2	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
2/10/2025 19:43	20403	ASHF_T2	0	0	0	0	0	0	0.46	0.51	0	0	0	0	0	0
2/10/2025 19:43	67002	STHI_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
2/10/2025 19:43	20602	GRWO_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/10/2025 19:44	62106	ELAN_T1	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
2/10/2025 19:44	60803	BUCK_T1	0	0	0	0	0	0	-0.49	-0.48	1	1	0	600	600	0
2/10/2025 19:44	66201	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:44	41002	LAUR_T2	7	9	2	0.44	0.37	-0.07	-0.91	-0.92	0	0	0	0	0	0
2/10/2025 19:44	64802	MONE_T2	0	3	3	0	0.13	0.13	-0.67	-0.68	0	0	0	0	0	0
2/10/2025 19:44	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:44	46203	DANV_T2	53	92	39	0.65	0.65	0	-3.03	-3	0	0	0	0	0	0
2/10/2025 19:44	40602	PIGR_T1	2	3	1	0.15	0.33	0.18	-1.76	-1.7	1	1	0	600	600	0
2/10/2025 19:44	60201	ATGL_T2	0	3	3	0	0.13	0.13	0.03	0.03	0	0	0	0	0	0
2/10/2025 19:44	53502	EVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/10/2025 19:44	63601	LETO_T1	0	0	0	0	0	0	-0.31	-0.31	2	2	0	2100	2100	0
2/10/2025 19:44	46801	HEPB_T2	0	0	0	0	0	0	0.61	0.64	0	0	0	0	0	0
2/10/2025 19:44	57104	SPHI_T2	3	2	-1	4.1	3.4	-0.7	0	0	0	0	0	0	0	0
2/10/2025 19:44	67002	STHI_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
2/10/2025 19:44	46206	DANV_T2	11	8	-3	0.35	0.37	0.02	0	0	0	0	0	0	0	0
2/10/2025 19:44	65604	QVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/10/2025 19:44	47401	PENS_T1	0	0	0	0	0	0	0.95	0.88	0	0	0	0	0	0
2/10/2025 19:44	53501	EVIL_T2	0	0	0	0	0	0	-0.78	-0.76	1	1	0	600	600	0
2/10/2025 19:44	42701	AUGU_T1	7	8	1	0.56	0.7	0.14	0	0	0	0	0	0	0	0
2/10/2025 19:44	46204	DANV_T2	39	52	13	0.42	0.43	0.01	0	0	0	0	0	0	0	0
2/10/2025 19:44	66902	SHIL_T2	0	0	0	0	0	0	-3.9	-3.94	0	0	0	0	0	0
2/10/2025 19:44	58003	WCAR_T1	1	1	0	1.1	1.2	0.1	-0.09	-0.09	1	1	0	600	600	0
2/10/2025 19:44	41001	LAUR_T2	1	2	1	2.9	1.9	-1	0	0	0	0	0	0	0	0
2/10/2025 19:44	66203	SISP_T2	0	1	1	0	0	0	-1.47	-1.47	2	2	0	1800	1800	0
2/10/2025 19:44	57106	SPHI_T2	3	3	0	0.47	0.6	0.13	0	0	0	0	0	0	0	0
2/10/2025 19:44	57103	SPHI_T2	0	0	0	0	0	0	-0.85	-0.87	1	1	0	600	600	0
2/10/2025 19:44	65603	QVIL_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
2/10/2025 19:44	40601	PIGR_T1	48	47	-1	0.24	0.25	0.01	0	0	0	0	0	0	0	0
2/10/2025 19:44	62606	ENGL_T1	0	0	0	0	0	0	-1.55	-1.55	1	1	0	900	900	0
2/10/2025 19:44	46004	BERW_T2	15	13	-2	0.95	1	0.05	-0.46	-0.47	0	0	0	0	0	0
2/10/2025 19:45	43304	WATS_T2	1	0	-1	0.1	0	-0.1	-0.7	-0.72	0	0	0	0	0	0
2/10/2025 19:45	14403	SSLA_T1	5	5	0	0.94	0.15	-0.79	0.21	0.23	1	1	0	600	600	0
2/10/2025 19:45	46206	DANV_T2	6	10	4	0.33	0.43	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:45	45802	HEGI_T2	47	48	1	1.21	1.54	0.33	-0.02	-0.05	0	0	0	0	0	0
2/10/2025 19:45	16302	ALPA_T2	0	0	0	0	0	0	-0.39	-0.45	0	0	0	0	0	0
2/10/2025 19:45	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:45	12602	MACA_T1	5	2	-3	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
2/10/2025 19:45	54504	ENGL_T2	0	0	0	0	0	0	-0.96	-0.99	1	1	0	600	600	0
2/10/2025 19:45	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:45	60301	TWVA_T2	0	1	1	0	0	0	-2.53	-2.46	2	2	0	2400	2400	0
2/10/2025 19:45	11202	ELHE_T2	0	0	0	0	0	0	0.42	0.43	1	1	0	1200	1200	0
2/10/2025 19:45	10401	LIGA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:45	42902	MIDD_T2	4	3	-1	0.6	0.6	0	-0.56	-0.34	0	0	0	0	0	0
2/10/2025 19:45	52402	GRPA_T2	5	3	-2	0.54	0.2	-0.34	0	0	0	0	0	0	0	0
2/10/2025 19:45	16301	ALPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:45	67402	WAKE_T2	1	1	0	0.1	0.1	0	0.3	0.31	0	0	0	0	0	0
2/10/2025 19:45	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:45	64101	REFR_T1	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
2/10/2025 19:45	45502	DERR_T2	5	7	2	0.66	0.6	-0.06	-0.57	-0.56	0	0	0	0	0	0
2/10/2025 19:45	12601	MACA_T1	0	0	0	0	0	0	0.88	0.92	0	0	0	0	0	0
2/10/2025 19:45	63803	HEMP_T1	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
2/10/2025 19:45	14402	SSLA_T1	8	0	-8	0.39	0	-0.39	0	0	0	0	0	0	0	0
2/10/2025 19:45	14401	SSLA_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:45	10705	CATA_T2	0	0	0	0	0	0	-2.15	-2.13	1	1	0	900	900	0
2/10/2025 19:45	12606	MACA_T1	0	13	13	0	0.56	0.56	0	0	0	0	0	0	0	0
2/10/2025 19:45	67702	WERN_T2	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
2/10/2025 19:45	41602	CLEV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/10/2025 19:45	67401	WAKE_T2	114	109	-5	0.34	0.31	-0.03	0	0	0	0	0	0	0	0
2/10/2025 19:45	42901	MIDD_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/10/2025 19:45	13303	ORVI_T1	0	0	0	0	0	0	0.88	0.84	0	0	0	0	0	0
2/10/2025 19:45	66903	SHIL_T2	0	0	0	0	0	0	-1.24	-1.26	0	0	0	0	0	0
2/10/2025 19:45	67002	STHI_T2	0	0	0	0	0	0	1.02	1.07	0	0	0	0	0	0
2/10/2025 19:45	10702	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:45	63804	HEMP_T1	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
2/10/2025 19:45	14204	EALL_T2	0	0	0	0	0	0	0.21	0.13	0	0	0	0	0	0
2/10/2025 19:45	52403	GRPA_T2	2	2	0	0.95	1.2	0.25	0	0	0	0	0	0	0	0
2/10/2025 19:45	45501	DERR_T2	0	7	7	0	0	0	0.28	0.26	2	2	0	1800	1800	0
2/10/2025 19:45	46203	DANV_T2	87	92	5	0.63	0.61	-0.02	-3.03	-3	0	0	0	0	0	0
2/10/2025 19:45	46204	DANV_T2	22	61	39	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
2/10/2025 19:46	46203	DANV_T2	87	92	5	0.63	0.61	-0.02	0	0	0	0	0	0	0	0
2/10/2025 19:46	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:46	60803	BUCK_T1	0	0	0	0	0	0	-0.98	-0.96	2	2	0	1200	1200	0
2/10/2025 19:46	52402	GRPA_T2	5	3	-2	0.54	0.2	-0.34	0	0	0	0	0	0	0	0
2/10/2025 19:46	52403	GRPA_T2	2	2	0	0.95	1.2	0.25	0	0	0	0	0	0	0	0
2/10/2025 19:46	45502	DERR_T2	5	7	2	0.66	0.6	-0.06	0	0	0	0	0	0	0	0
2/10/2025 19:46	53501	EVIL_T2	0	0	0	0	0	0	-1.55	-1.52	2	2	0	1200	1200	0
2/10/2025 19:46	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:46	67203	TEHI_T1	1	2	1	0.7	0.8	0.1	2.48	2.5	2	2	0	1500	1500	0
2/10/2025 19:46	41602	CLEV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/10/2025 19:46	63501	HEID_TBK1-2	8	1	-7	0.14	0.2	0.06	-0.48	-0.49	1	1	0	900	900	0
2/10/2025 19:46	52501	PROG_T1	47	7	-40	0.11	0.11	0	-0.8	-0.81	1	1	0	300	300	0
2/10/2025 19:46	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:46	45501	DERR_T2	0	7	7	0	0	0	0.56	0.51	4	4	0	3600	3600	0
2/10/2025 19:46	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:46	41001	LAUR_T2	2	35	33	1.2	0.18	-1.02	0	0	0	0	0	0	0	0
2/10/2025 19:46	41002	LAUR_T2	9	14	5	0.37	0.32	-0.05	0	0	0	0	0	0	0	0
2/10/2025 19:46	46206	DANV_T2	6	10	4	0.33	0.43	0.1	1.38	1.38	2	2	0	2100	2100	0
2/10/2025 19:46	46204	DANV_T2	22	61	39	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
2/10/2025 19:46	60301	TWVA_T2	0	1	1	0	0	0	-1.26	-1.23	1	1	0	1200	1200	0
2/10/2025 19:47	61502	EPET_T1	0	1	1	0	0.1	0.1	-2.47	-2.44	0	0	0	0	0	0
2/10/2025 19:47	40601	PIGR_T1	19	49	30	0.21	0.24	0.03	-0.11	-0.15	0	0	0	0	0	0
2/10/2025 19:47	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:47	41902	REED_T1	3	6	3	0.73	1	0.27	0.41	0.31	1	1	0	900	900	0
2/10/2025 19:47	57106	SPHI_T2	3	3	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/10/2025 19:47	52402	GRPA_T2	5	3	-2	0.54	0.2	-0.34	0	0	0	0	0	0	0	0
2/10/2025 19:47	16103	BING_T2	0	0	0	0	0	0	-1.49	-1.5	1	1	0	900	900	0
2/10/2025 19:47	67002	STHI_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
2/10/2025 19:47	45802	HEGI_T2	47	48	1	1.21	1.54	0.33	-0.02	-0.05	0	0	0	0	0	0
2/10/2025 19:47	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:47	20401	ASHF_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/10/2025 19:47	67401	WAKE_T2	114	109	-5	0.34	0.31	-0.03	0	0	0	0	0	0	0	0
2/10/2025 19:47	41602	CLEV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/10/2025 19:47	57104	SPHI_T2	2	1	-1	3.1	3.6	0.5	-3.66	-3.66	2	2	0	1800	1800	0
2/10/2025 19:47	20602	GRWO_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/10/2025 19:47	67402	WAKE_T2	1	1	0	0.1	0	0.3	0.31	0	0	0	0	0	0	0
2/10/2025 19:47	47401	PENS_T1	0	0	0	0	0	0	0.95	0.88	0	0	0	0	0	0
2/10/2025 19:47	20402	ASHF_T2	93	101	8	0.49	0.35	-0.14	0	0	0	0	0	0	0	0
2/10/2025 19:47	52403	GRPA_T2	2	2	0	0.95	1.2	0.25	0	0	0	0	0	0	0	0
2/10/2025 19:47	40602	PIGR_T1	2	3	1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
2/10/2025 19:47	16102	BING_T1	1	1	0	4.8	3.6	-1.2	0	0	0	0	0	0	0	0
2/10/2025 19:47	52401	GRPA_T2	0	1	1	0	0.1	0.1	-0.62	-0.63	0	0	0	0	0	0
2/10/2025 19:47	47901	HRDG_T1	0	0	0	0	0	0	0.38	0.41	1	1	0	1200	1200	0
2/10/2025 19:47	61001	DONV_T1	0	0	0	0	0	0	-0.24	-0.21	0	0	0	0	0	0
2/10/2025 19:47	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:47	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
2/10/2025 19:47	20601	GRWO_T2	11	4	-7	1.05	1.77	0.72	-0.02	-0.01	0	0	0	0	0	0
2/10/2025 19:47	20403	ASHF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:48	46204	DANV_T2	22	61	39	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
2/10/2025 19:48	63803	HEMP_T1	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
2/10/2025 19:48	59101	WALK_T2	0	0	0	0	0	0	2.05	2.7	0	0	0	0	0	0
2/10/2025 19:48	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.01	0	0	0	0	0	0
2/10/2025 19:48	66505	SMAN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/10/2025 19:48	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:48	52401	GRPA_T2	0	1	1	0	0.1	0.1	-0.62	-0.63	0	0	0	0	0	0
2/10/2025 19:48	45802	HEGI_T2	47	48	1	1.21	1.54	0.33	0	0	0	0	0	0	0	0
2/10/2025 19:48	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:48	57104	SPHI_T2	2	1	-1	3.1	3.6	0.5	-1.83	-1.83	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/10/2025 19:48	63501	HEID_TBK1-2	8	1	-7	0.14	0.2	0.06	-0.96	-0.99	2	2	0	1800	1800	0
2/10/2025 19:48	64101	REFR_T1	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
2/10/2025 19:48	63804	HEMP_T1	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
2/10/2025 19:48	45501	DERR_T2	0	7	7	0	0	0	0.28	0.26	2	2	0	1800	1800	0
2/10/2025 19:48	42902	MIDD_T2	4	3	-1	0.6	0.6	0	0	0	0	0	0	0	0	0
2/10/2025 19:48	43304	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/10/2025 19:48	42901	MIDD_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/10/2025 19:48	52403	GRPA_T2	2	2	0	0.95	1.2	0.25	0	0	0	0	0	0	0	0
2/10/2025 19:48	57106	SPHI_T2	3	3	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/10/2025 19:48	52402	GRPA_T2	5	3	-2	0.54	0.2	-0.34	0	0	0	0	0	0	0	0
2/10/2025 19:48	45502	DERR_T2	5	7	2	0.66	0.6	-0.06	0	0	0	0	0	0	0	0
2/10/2025 19:48	41902	REED_T1	3	6	3	0.73	1	0.27	0.41	0.31	1	1	0	900	900	0
2/10/2025 19:48	66903	SHIL_T2	0	0	0	0	0	0	-1.24	-1.26	0	0	0	0	0	0
2/10/2025 19:48	46203	DANV_T2	87	92	5	0.63	0.61	-0.02	-6.06	-5.99	0	0	0	0	0	0
2/10/2025 19:48	46206	DANV_T2	6	10	4	0.33	0.43	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:49	40602	PIGR_T1	2	3	1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
2/10/2025 19:49	64802	MONE_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
2/10/2025 19:49	11301	EMMA_T1	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
2/10/2025 19:49	40601	PIGR_T1	19	49	30	0.21	0.24	0.03	0	0	0	0	0	0	0	0
2/10/2025 19:49	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:49	45501	DERR_T2	0	7	7	0	0	0	0.28	0.26	2	2	0	1800	1800	0
2/10/2025 19:49	52403	GRPA_T2	2	2	0	0.95	1.2	0.25	-0.37	-0.42	0	0	0	0	0	0
2/10/2025 19:49	57104	SPHI_T2	2	1	-1	3.1	3.6	0.5	-1.83	-1.83	1	1	0	900	900	0
2/10/2025 19:49	65503	MOJO_T2	0	0	0	0	0	0	-1	-1.04	1	1	0	900	900	0
2/10/2025 19:49	57106	SPHI_T2	3	3	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/10/2025 19:49	66203	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:49	59101	WALK_T2	0	0	0	0	0	0	1.03	1.35	0	0	0	0	0	0
2/10/2025 19:49	52402	GRPA_T2	5	3	-2	0.54	0.2	-0.34	0	0	0	0	0	0	0	0
2/10/2025 19:49	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:49	62101	ELAN_T1	0	0	0	0	0	0	1.35	2.19	2	2	0	1800	1800	0
2/10/2025 19:49	58003	WCAR_T1	1	1	0	1.2	1.1	-0.1	-0.09	-0.09	1	1	0	600	600	0
2/10/2025 19:49	64101	REFR_T1	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
2/10/2025 19:49	61702	ELIZ_T2	0	1	1	0	0	0	-2.06	-2.08	2	2	0	1500	1500	0
2/10/2025 19:49	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:49	11302	EMMA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:49	45502	DERR_T2	5	7	2	0.66	0.6	-0.06	0	0	0	0	0	0	0	0
2/10/2025 19:49	66201	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:49	60201	ATGL_T2	3	4	1	0.13	0.13	0	0.03	0.03	0	0	0	0	0	0
2/10/2025 19:50	67401	WAKE_T2	114	109	-5	0.34	0.31	-0.03	0	0	0	0	0	0	0	0
2/10/2025 19:50	67402	WAKE_T2	1	1	0	0.1	0.1	0	0.3	0.31	0	0	0	0	0	0
2/10/2025 19:50	61001	DONV_T1	0	0	0	0	0	0	-0.24	-0.21	0	0	0	0	0	0
2/10/2025 19:50	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
2/10/2025 19:50	46203	DANV_T2	87	92	5	0.63	0.61	-0.02	-3.03	-3	0	0	0	0	0	0
2/10/2025 19:50	60803	BUCK_T1	0	0	0	0	0	0	-0.49	-0.48	1	1	0	600	600	0
2/10/2025 19:50	67201	TEHI_T1	0	0	0	0	0	0	0.07	0.16	1	1	0	900	900	0
2/10/2025 19:50	57106	SPHI_T2	3	3	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/10/2025 19:50	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:50	46204	DANV_T2	22	61	39	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
2/10/2025 19:50	46206	DANV_T2	6	10	4	0.33	0.43	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:50	41902	REED_T1	3	6	3	0.73	1	0.27	0.41	0.31	1	1	0	900	900	0
2/10/2025 19:50	55002	NEWP_T1	4	3	-1	0.63	0.73	0.1	-0.2	-0.19	0	0	0	0	0	0
2/10/2025 19:50	57104	SPHI_T2	2	1	-1	3.1	3.6	0.5	-1.83	-1.83	1	1	0	900	900	0
2/10/2025 19:50	67203	TEHI_T1	1	2	1	0.7	0.8	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:50	58003	WCAR_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
2/10/2025 19:50	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:50	64101	REFR_T1	0	0	0	0	0	0	0.04	-0.02	0	0	0	0	0	0
2/10/2025 19:51	57104	SPHI_T2	2	1	-1	3.1	3.6	0.5	0	0	0	0	0	0	0	0
2/10/2025 19:51	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:51	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:51	58003	WCAR_T1	1	1	0	1.2	1.1	-0.1	-0.09	-0.09	1	1	0	600	600	0
2/10/2025 19:51	12602	MACA_T1	5	2	-3	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
2/10/2025 19:51	57502	LAWN_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:51	58006	WCAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:51	58401	MORO_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	600	600	0
2/10/2025 19:51	52402	GRPA_T2	5	3	-2	0.54	0.2	-0.34	0	0	0	0	0	0	0	0
2/10/2025 19:51	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
2/10/2025 19:51	57106	SPHI_T2	3	3	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/10/2025 19:51	10705	CATA_T2	0	0	0	0	0	0	-2.13	-2.1	1	1	0	900	900	0
2/10/2025 19:51	10702	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:51	52501	PROG_T1	47	7	-40	0.11	0.11	0	-1.61	-1.62	2	2	0	600	600	0
2/10/2025 19:51	52403	GRPA_T2	2	2	0	0.95	1.2	0.25	-0.73	-0.83	0	0	0	0	0	0
2/10/2025 19:51	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:51	57103	SPHI_T2	0	0	0	0	0	0	-0.85	-0.87	1	1	0	600	600	0
2/10/2025 19:51	57205	ROSS_T1	0	0	0	0	0	0	-0.8	-0.81	1	1	0	900	900	0
2/10/2025 19:51	12606	MACA_T1	0	13	13	0	0.56	0.56	0	0	0	0	0	0	0	0
2/10/2025 19:52	57104	SPHI_T2	2	1	-1	3.1	3.6	0.5	-5.5	-5.46	3	3	0	2700	2700	0
2/10/2025 19:52	52501	PROG_T1	47	7	-40	0.11	0.11	0	-0.81	-0.79	1	1	0	300	300	0
2/10/2025 19:52	45502	DERR_T2	5	7	2	0.66	0.6	-0.06	0	0	0	0	0	0	0	0
2/10/2025 19:52	58201	NEWV_T1	1	2	1	1.1	1.3	0.2	0	0	0	0	0	0	0	0
2/10/2025 19:52	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:52	47203	FAXO_T2	1	1	0	0.8	0.8	0	-1.72	-1.72	1	1	0	1200	1200	0
2/10/2025 19:52	58202	NEWV_T1	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
2/10/2025 19:52	45501	DERR_T2	0	7	7	0	0	0	0.26	0.25	2	2	0	1800	1800	0
2/10/2025 19:52	53501	EVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:52	57106	SPHI_T2	3	3	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/10/2025 19:53	58401	MORO_T1	0	0	0	0	0	0	-2.08	-2.13	2	2	0	1200	1200	0
2/10/2025 19:53	58003	WCAR_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
2/10/2025 19:53	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:53	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:53	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:53	59101	WALK_T2	0	0	0	0	0	0	1.35	0.89	0	1	1	0	600	600
2/10/2025 19:53	66505	SMAN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/10/2025 19:53	58001	WCAR_T1	0	0	0	0	0	0	0.62	0.54	0	0	0	0	0	0
2/10/2025 19:53	53501	EVIL_T2	0	0	0	0	0	0	-0.76	-0.66	1	1	0	600	600	0
2/10/2025 19:54	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:54	58402	MORO_T1	0	0	0	0	0	0	-0.41	-0.41	3	3	0	1950	1950	0
2/10/2025 19:54	67605	WARW_T1	0	0	0	0	0	0	-0.87	-0.89	0	0	0	0	0	0
2/10/2025 19:54	53501	EVIL_T2	0	0	0	0	0	0	-0.76	-0.66	1	1	0	600	600	0
2/10/2025 19:55	55002	NEWP_T1	4	3	-1	0.63	0.73	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:55	52402	GRPA_T2	5	3	-2	0.54	0.2	-0.34	0	0	0	0	0	0	0	0
2/10/2025 19:55	67402	WAKE_T2	1	1	0	0.1	0.1	0	0.31	0.3	0	0	0	0	0	0
2/10/2025 19:55	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:55	67401	WAKE_T2	114	109	-5	0.34	0.31	-0.03	0	0	0	0	0	0	0	0
2/10/2025 19:55	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:55	52403	GRPA_T2	2	2	0	0.95	1.2	0.25	-0.42	-0.38	0	0	0	0	0	0
2/10/2025 19:55	55001	NEWP_T1	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
2/10/2025 19:55	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2025 19:56	64204	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
2/10/2025 19:56	64203	KINZ_T1	0	0	0	0	0	0	-0.47	-0.5	1	1	0	600	600	0
2/10/2025 19:58	52403	GRPA_T2	2	2	0	0.95	1.2	0.25	0	0	0	0	0	0	0	0
2/10/2025 19:58	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/10/2025 19:58	52402	GRPA_T2	5	3	-2	0.54	0.2	-0.34	0	0	0	0	0	0	0	0
2/10/2025 19:58	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/10/2025 20:00	60801	BUCK_T1	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
2/10/2025 20:14	54203	PENN_T1	5	13	8	0.6	0.35	-0.25	0.62	0.65	0	0	0	0	0	0
2/10/2025 20:14	54201	PENN_T1	3	3	0	1.43	1.73	0.3	0	0	0	0	0	0	0	0
2/10/2025 20:19	65205	PRIN_T1	1	2	1	1	1.2	0.2	0	0	0	0	0	0	0	0
2/10/2025 20:22	57104	SPHI_T2	1	2	1	3.6	6.15	2.55	0	0	0	0	0	0	0	0
2/10/2025 20:22	57106	SPHI_T2	3	3	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/10/2025 20:22	57103	SPHI_T2	0	0	0	0	0	0	-0.87	-0.85	1	1	0	600	600	0
2/10/2025 20:24	57104	SPHI_T2	1	2	1	3.6	6.15	2.55	0	0	0	0	0	0	0	0
2/10/2025 20:24	57106	SPHI_T2	3	3	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/10/2025 20:24	57103	SPHI_T2	0	0	0	0	0	0	-0.87	-0.85	1	1	0	600	600	0
2/10/2025 20:30	25402	LAHA_T2	9	9	0	1.22	1.32	0.1	-0.59	-0.57	0	0	0	0	0	0
2/10/2025 20:52	64101	REFR_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
2/10/2025 21:57	63501	HEID_TBK1-2	37	41	4	0.52	0.72	0.2	-0.56	-0.59	1	1	0	900	900	0
2/10/2025 23:28	52401	GRPA_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
2/10/2025 23:28	52404	GRPA_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
2/10/2025 23:28	52403	GRPA_T2	2	2	0	0.2	0.2	0	-0.71	-0.65	0	0	0	0	0	0
2/10/2025 23:28	52402	GRPA_T2	2	2	0	0.7	1.05	0.35	0	0	0	0	0	0	0	0
2/11/2025 0:51	20601	GRWO_T2	1	1	0	1.2	0	-1.2	-0.12	-0.16	0	0	0	0	0	0
2/11/2025 7:31	51802	EBEN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
2/11/2025 7:31	51804	EBEN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/11/2025 8:13	51802	EBEN_T2	0	4	4	0	0	0	-0.01	-0.01	1	1	0	900	900	0
2/11/2025 8:15	40502	CRES_T2	44	43	-1	0.77	0.61	-0.16	0.09	0.18	0	0	0	0	0	0
2/11/2025 8:15	40501	CRES_T2	6	8	2	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
2/11/2025 8:33	12202	FOGE_T2	0	0	0	0	0	0	-0.42	-0.41	1	1	0	600	600	0
2/11/2025 8:33	12206	FOGE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 8:38	57205	ROSS_T1	0	0	0	0	0	0	-0.73	-0.75	1	1	0	900	900	0
2/11/2025 8:43	45501	DERR_T2	0	2	2	0	0	0	0.53	0.51	2	2	0	1800	1800	0
2/11/2025 8:43	45502	DERR_T2	3	2	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/11/2025 8:44	46206	DANV_T2	12	11	-1	0.93	0.8	-0.13	0	0	0	0	0	0	0	0
2/11/2025 8:44	46204	DANV_T2	87	44	-43	0.48	0.52	0.04	0	0	0	0	0	0	0	0
2/11/2025 8:44	46203	DANV_T2	155	176	21	0.76	0.81	0.05	-1.62	-0.73	0	0	0	0	0	0
2/11/2025 8:47	40501	CRES_T2	8	5	-3	0.31	0.36	0.05	0	0	0	0	0	0	0	0
2/11/2025 8:47	40502	CRES_T2	42	38	-4	0.58	0.49	-0.09	0.17	0.17	0	0	0	0	0	0
2/11/2025 8:52	54206	PENN_T2	0	17	17	0	0	0	-0.34	-0.36	0	0	0	0	0	0
2/11/2025 9:00	41902	REED_T1	12	11	-1	1.05	0.44	-0.61	0.79	0.85	2	2	0	1800	1800	0
2/11/2025 9:00	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 9:00	28102	TWLA_T2	1	1	0	0.3	0	-0.3	0.28	0.27	0	0	0	0	0	0
2/11/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
2/11/2025 9:02	66302	MCGO_T2	0	0	0	0	0	0	-1.28	-1.31	1	1	0	600	600	0
2/11/2025 9:04	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
2/11/2025 9:06	67503	WEWI_T2	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
2/11/2025 9:06	65206	PRIN_T4	1	1	0	4.6	0	-4.6	0	0	0	0	0	0	0	0
2/11/2025 9:06	65207	PRIN_T4	3	4	1	3.27	2.83	-0.44	0	0	0	0	0	0	0	0
2/11/2025 9:06	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/11/2025 9:06	66302	MCGO_T2	0	0	0	0	0	0	-1.31	-1.31	1	1	0	600	600	0
2/11/2025 9:06	62105	ELAN_T1	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
2/11/2025 9:10	57205	ROSS_T1	0	0	0	0	0	0	-0.74	-0.77	1	1	0	900	900	0
2/11/2025 9:11	45902	AUBU_T1	13	28	15	0.68	1.04	0.36	0.01	0.01	1	1	0	600	600	0
2/11/2025 9:14	53502	EVIL_T2	1	1	0	0.2	1.6	1.4	0	0	0	0	0	0	0	0
2/11/2025 9:14	53501	EVIL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/11/2025 9:14	45502	DERR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/11/2025 9:14	45501	DERR_T2	2	2	0	0.45	0	-0.45	0.51	0.52	1	1	0	600	600	0
2/11/2025 9:14	45902	AUBU_T1	13	28	15	0.68	1.04	0.36	0.01	0.01	1	1	0	600	600	0
2/11/2025 9:15	61305	EARL_T1	0	0	0	0	0	0	0.27	0.3	2	2	0	1500	1500	0
2/11/2025 9:16	45501	DERR_T2	2	0	-2	0.4	0	-0.4	0.51	0.52	1	1	0	600	600	0
2/11/2025 9:17	54505	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/11/2025 9:17	54503	ENOL_T2	0	0	0	0	0	0	-1.03	-1.02	1	1	0	600	600	0
2/11/2025 9:19	52402	GRPA_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/11/2025 9:19	52403	GRPA_T2	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
2/11/2025 9:20	23401	HONE_T2	55	15	-40	0.53	0.47	-0.06	0.29	0.26	0	0	0	0	0	0
2/11/2025 9:24	51802	EBEN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
2/11/2025 9:24	51804	EBEN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/11/2025 9:30	61502	EPET_T1	0	0	0	0	0	0	-1.08	-1.14	0	0	0	0	0	0
2/11/2025 9:31	46802	HEPB_T1	2	1	-1	0.8	1.5	0.7	-1.15	-1.11	0	0	0	0	0	0
2/11/2025 9:43	11104	EGYP_T1	1	1	0	1.6	0.3	-1.3	0	0	0	0	0	0	0	0
2/11/2025 9:43	11101	EGYP_T1	0	0	0	0	0	0	-0.7	0.6	1	0	-1	1200	0	-1200
2/11/2025 9:45	10801	CHHI_T1	0	0	0	0	0	0	-1.77	-1.8	1	3	2	600	2100	1500
2/11/2025 9:46	44801	EDAN_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
2/11/2025 9:47	11103	EGYP_T1	0	0	0	0	0	0	-0.76	-0.75	0	0	0	0	0	0
2/11/2025 9:47	11101	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 9:47	11104	EGYP_T1	1	2	1	1.4	0	-1.4	0	0	0	0	0	0	0	0
2/11/2025 9:48	47203	FAXO_T2	1	1	0	0.4	0.4	0	-0.31	-0.27	0	0	0	0	0	0
2/11/2025 9:52	40603	PIGR_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
2/11/2025 9:52	40602	PIGR_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
2/11/2025 9:53	67402	WAKE_T2	0	0	0	0	0	0	0.54	0.55	1	1	0	600	600	0
2/11/2025 9:55	58006	WCAR_T2	0	0	0	0	0	0	0.5	0.51	0	0	0	0	0	0
2/11/2025 9:57	67402	WAKE_T2	0	0	0	0	0	0	0.54	0.55	1	1	0	600	600	0
2/11/2025 9:57	60201	ATGL_T2	7	6	-1	0.17	0.27	0.1	0.14	0.24	0	0	0	0	0	0
2/11/2025 9:58	58006	WCAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 10:02	44502	HAMI_T2	1	2	1	2.3	2	-0.3	0	0	0	0	0	0	0	0
2/11/2025 10:02	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 10:03	44505	HAMI_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
2/11/2025 10:03	14204	EALL_T2	0	0	0	0	0	0	0.02	0.07	0	0	0	0	0	0
2/11/2025 10:03	44502	HAMI_T2	1	2	1	2.3	2	-0.3	0	0	0	0	0	0	0	0
2/11/2025 10:03	15404	WALL_T1	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
2/11/2025 10:04	22602	KIMB_T1	1	0	-1	0.2	0	-0.2	0.13	0.14	0	0	0	0	0	0
2/11/2025 10:04	65502	MOJO_T2	0	0	0	0	0	0	-1.1	-1.23	1	1	0	900	900	0
2/11/2025 10:06	65502	MOJO_T2	0	0	0	0	0	0	-1.23	-1.11	1	1	0	900	900	0
2/11/2025 10:07	65503	MOJO_T2	0	0	0	0	0	0	-0.65	-0.68	1	1	0	900	900	0
2/11/2025 10:08	40602	PIGR_T1	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
2/11/2025 10:08	40603	PIGR_T1	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
2/11/2025 10:10	54001	SDLE_T1	3	4	1	0.63	0.63	0	0	0	0	0	0	0	0	0
2/11/2025 10:12	58001	WCAR_T1	4	4	0	0.78	0.58	-0.2	0	0	0	0	0	0	0	0
2/11/2025 10:12	58003	WCAR_T1	1	1	0	1.3	1.3	0	0.75	0.75	0	0	0	0	0	0
2/11/2025 10:14	58003	WCAR_T1	1	1	0	1.3	1.3	0	0.75	0.75	0	0	0	0	0	0
2/11/2025 10:14	58001	WCAR_T1	4	4	0	0.78	0.58	-0.2	0	0	0	0	0	0	0	0
2/11/2025 10:17	40101	HUNT_T2	5	5	0	0.58	0.27	-0.31	-1.61	-1.6	0	0	0	0	0	0
2/11/2025 10:22	43201	MVIL_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
2/11/2025 10:23	44203	POIN_T2	5	3	-2	0.76	0	-0.76	0.04	-0.05	2	2	0	2100	2100	0
2/11/2025 10:23	40603	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 10:23	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 10:23	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/11/2025 10:24	40602	PIGR_T1	0	0	0	0	0	0	0.27	0.34	0	0	0	0	0	0
2/11/2025 10:24	44203	POIN_T2	5	3	-2	0.76	0	-0.76	0.04	-0.05	2	2	0	2100	2100	0
2/11/2025 10:27	44801	EDAN_T2	0	0	0	0	0	0	-0.3	-0.28	0	0	0	0	0	0
2/11/2025 10:27	46206	DANV_T2	5	10	5	1.04	0.7	-0.34	2.65	2.63	1	1	0	1200	1200	0
2/11/2025 10:27	46203	DANV_T2	13	25	12	0.34	0.43	0.09	0	0	0	0	0	0	0	0
2/11/2025 10:27	46204	DANV_T2	4	7	3	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
2/11/2025 10:28	46206	DANV_T2	5	10	5	1.04	0.7	-0.34	2.65	2.63	1	1	0	1200	1200	0
2/11/2025 10:28	24902	WHHA_T1	4	4	0	0.58	0.37	-0.21	0	0	0	0	0	0	0	0
2/11/2025 10:28	46204	DANV_T2	4	7	3	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
2/11/2025 10:28	46203	DANV_T2	13	25	12	0.34	0.43	0.09	-0.73	-0.69	0	0	0	0	0	0
2/11/2025 10:28	24901	WHHA_T1	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
2/11/2025 10:29	20603	GRWO_T2	18	17	-1	0.54	0	-0.54	0	0	0	0	0	0	0	0
2/11/2025 10:29	20601	GRWO_T2	122	103	-19	0.72	0.59	-0.13	0.7	0.71	0	0	0	0	0	0
2/11/2025 10:29	46206	DANV_T2	5	10	5	1.04	0.7	-0.34	2.65	2.63	1	1	0	1200	1200	0
2/11/2025 10:29	46203	DANV_T2	13	25	12	0.34	0.43	0.09	-1.45	-1.38	0	0	0	0	0	0
2/11/2025 10:29	46204	DANV_T2	4	7	3	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
2/11/2025 10:31	53601	DALM_T2	0	1	1	0	0.2	0.2	-0.55	-0.64	1	1	0	900	900	0
2/11/2025 10:31	10801	CHHI_T1	1	1	0	0.6	1.4	0.8	-1.28	-1.15	2	2	0	1500	1500	0
2/11/2025 10:33	10401	LIGA_T1	12	65	53	0.13	0.25	0.12	0	0	0	0	0	0	0	0
2/11/2025 10:34	20601	GRWO_T2	96	85	-11	0.6	0.52	-0.08	0.7	0.71	0	0	0	0	0	0
2/11/2025 10:34	20603	GRWO_T2	17	0	-17	0.29	0	-0.29	0	0	0	0	0	0	0	0
2/11/2025 10:39	65603	QVIL_T2	0	0	0	0	0	0	1.24	1.1	0	0	0	0	0	0
2/11/2025 10:39	65604	QVIL_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/11/2025 10:39	54001	SDLE_T1	4	5	1	0.63	0.64	0.01	0	0	0	0	0	0	0	0
2/11/2025 10:39	55002	NEWP_T1	0	3	3	0	0.47	0.47	-0.17	-0.19	0	0	0	0	0	0
2/11/2025 10:39	65601	QVIL_T2	16	3	-13	0.13	0.13	0	0	0	0	0	0	0	0	0
2/11/2025 10:41	46203	DANV_T2	19	26	7	0.4	0.43	0.03	-0.69	-0.74	0	0	0	0	0	0
2/11/2025 10:41	46206	DANV_T2	7	8	1	0.74	0.87	0.13	0	0	0	0	0	0	0	0
2/11/2025 10:41	46204	DANV_T2	5	6	1	0.14	0.17	0.03	0	0	0	0	0	0	0	0
2/11/2025 10:45	54505	ENOL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/11/2025 10:45	46206	DANV_T2	7	4	-3	0.59	0.7	0.11	0	0	0	0	0	0	0	0
2/11/2025 10:45	10805	CHHI_T2	1	1	0	8.3	8.2	-0.1	-0.9	-0.91	1	1	0	600	600	0
2/11/2025 10:45	46204	DANV_T2	4	5	1	0.18	0	-0.18	0	0	0	0	0	0	0	0
2/11/2025 10:45	61304	EARL_T1	0	0	0	0	0	0	-0.6	-0.6	1	1	0	600	600	0
2/11/2025 10:45	54504	ENOL_T2	0	0	0	0	0	0	-0.97	-1	1	1	0	600	600	0
2/11/2025 10:45	46203	DANV_T2	24	70	46	0.44	0.4	-0.04	-0.69	-0.74	0	0	0	0	0	0
2/11/2025 10:48	64802	MONE_T2	15	46	31	0.17	0.23	0.06	0.18	0.17	0	0	0	0	0	0
2/11/2025 10:48	64801	MONE_T2	11	42	31	0.17	0.19	0.02	0	0	0	0	0	0	0	0
2/11/2025 10:49	64802	MONE_T2	15	46	31	0.17	0.23	0.06	0	0	0	0	0	0	0	0
2/11/2025 10:49	64801	MONE_T2	11	42	31	0.17	0.19	0.02	0.14	0.13	0	0	0	0	0	0
2/11/2025 10:54	59201	THOM_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
2/11/2025 10:54	45902	AUBU_T1	13	10	-3	0.99	0.93	-0.06	0.01	0.01	1	1	0	600	600	0
2/11/2025 10:54	59202	THOM_T1	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
2/11/2025 10:55	16103	BING_T2	0	1	1	0	0	0	-1.42	-1.47	1	1	0	900	900	0
2/11/2025 10:55	16102	BING_T2	1	1	0	4.4	1	-3.4	0	0	0	0	0	0	0	0
2/11/2025 10:56	59202	THOM_T1	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
2/11/2025 10:56	59201	THOM_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
2/11/2025 10:56	45902	AUBU_T1	13	10	-3	0.99	0.93	-0.06	0.01	0.01	1	1	0	600	600	0
2/11/2025 10:57	45902	AUBU_T1	13	10	-3	0.99	0.93	-0.06	0.01	0.01	1	1	0	600	600	0
2/11/2025 10:57	10801	CHHI_T1	1	1	0	1.7	0.9	-0.8	-1.11	-1.12	2	2	0	1500	1500	0
2/11/2025 11:09	60201	ATGL_T2	27	46	19	0.26	0.22	-0.04	0.19	0.04	0	0	0	0	0	0
2/11/2025 11:10	60201	ATGL_T2	27	46	19	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
2/11/2025 11:10	67106	SPRI_T2	0	0	0	0	0	0	-5.67	-5.7	3	3	0	2700	2700	0
2/11/2025 11:26	59101	WALK_T2	3	1	-2	0.97	0	-0.97	2.01	1.97	1	1	0	600	600	0
2/11/2025 11:37	57401	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/11/2025 11:37	57403	SPAN_T1	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
2/11/2025 11:38	59301	MCAL_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
2/11/2025 11:38	59302	MCAL_T1	0	0	0	0	0	0	-0.51	-0.46	1	1	0	600	600	0
2/11/2025 11:38	57403	SPAN_T1	0	5	5	0	0.16	0.16	0.17	0.17	0	0	0	0	0	0
2/11/2025 11:38	57401	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/11/2025 11:40	57403	SPAN_T1	0	5	5	0	0.16	0.16	0.33	0.33	0	0	0	0	0	0
2/11/2025 11:40	57401	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/11/2025 11:43	61304	EARL_T1	0	0	0	0	0	0	-0.62	-0.67	1	1	0	600	600	0
2/11/2025 11:44	61304	EARL_T1	0	0	0	0	0	0	-1.24	-1.34	2	2	0	1200	1200	0
2/11/2025 11:47	61301	EARL_T1	0	0	0	0	0	0	-0.35	-0.31	1	1	0	900	900	0
2/11/2025 11:48	46101	MACI_T2	0	0	0	0	0	0	-0.65	-0.69	2	2	0	2400	2400	0
2/11/2025 11:52	58401	MORO_T1	0	0	0	0	0	0	-0.88	-0.9	1	1	0	600	600	0
2/11/2025 11:54	58401	MORO_T1	0	0	0	0	0	0	-0.88	-0.9	1	1	0	600	600	0
2/11/2025 11:54	54001	SDLE_T1	12	48	36	0.88	0.38	-0.5	0	0	0	0	0	0	0	0
2/11/2025 11:55	54001	SDLE_T1	12	48	36	0.88	0.38	-0.5	0	0	0	0	0	0	0	0
2/11/2025 11:57	67201	TEHI_T1	0	1	1	0	0.1	0.1	0.57	0.56	1	1	0	900	900	0
2/11/2025 11:59	40702	FFLD_T1	2	3	1	0.2	0.33	0.13	-1.92	-1.94	1	1	0	1200	1200	0
2/11/2025 11:59	40703	FFLD_T1	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
2/11/2025 11:59	40701	FFLD_T1	18	29	11	0.17	0.29	0.12	0	0	0	0	0	0	0	0
2/11/2025 12:01	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 12:01	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 12:01	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
2/11/2025 12:01	62106	ELAN_T1	0	0	0	0	0	0	1.53	1.18	0	0	0	0	0	0
2/11/2025 12:01	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 12:01	46506	LOHA_T1	4	4	0	2.5	2.48	-0.02	0	0	0	0	0	0	0	0
2/11/2025 12:02	40701	FFLD_T1	23	29	6	0.28	0.29	0.01	0	0	0	0	0	0	0	0
2/11/2025 12:02	40702	FFLD_T1	2	3	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
2/11/2025 12:02	61503	EPET_T1	0	0	0	0	0	0	-0.99	-1.03	0	0	0	0	0	0
2/11/2025 12:02	40703	FFLD_T1	2	3	1	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
2/11/2025 12:04	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
2/11/2025 12:04	46506	LOHA_T1	4	4	0	2.5	2.48	-0.02	0	0	0	0	0	0	0	0
2/11/2025 12:04	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 12:05	55001	NEWP_T1	0	0	0	0	0	0	-0.96	-0.98	1	1	0	600	600	0
2/11/2025 12:05	55002	NEWP_T1	4	3	-1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
2/11/2025 12:09	14801	TREI_T2	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
2/11/2025 12:09	55001	NEWP_T1	0	0	0	0	0	0	-0.98	-0.95	1	1	0	600	600	0
2/11/2025 12:09	55002	NEWP_T1	4	3	-1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
2/11/2025 12:09	54701	NEBL_T1	5	2	-3	0.74	0.8	0.06	0	0	0	0	0	0	0	0
2/11/2025 12:10	54601	SUMM_T2	1	0	-1	0.3	0	-0.3	-1.71	-1.71	2	2	0	2100	2100	0
2/11/2025 12:19	16302	ALPA_T2	1	0	-1	0.1	0	-0.1	-0.35	-0.33	0	0	0	0	0	0
2/11/2025 12:19	64801	MONE_T2	7	4	-3	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
2/11/2025 12:19	64802	MONE_T2	8	5	-3	0.15	0.14	-0.01	0.06	0.01	0	0	0	0	0	0
2/11/2025 12:21	16302	ALPA_T2	1	0	-1	0.1	0	-0.1	-0.67	-0.55	0	0	0	0	0	0
2/11/2025 12:21	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 12:23	16302	ALPA_T2	1	0	-1	0.1	0	-0.1	-0.33	-0.27	0	0	0	0	0	0
2/11/2025 12:25	42701	AUGU_T1	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/11/2025 12:26	67901	WNHO_T2	0	0	0	0	0	0	0.39	0.4	1	1	0	900	900	0
2/11/2025 12:27	67901	WNHO_T2	0	0	0	0	0	0	0.39	0.4	1	1	0	900	900	0
2/11/2025 12:27	16302	ALPA_T2	1	0	-1	0.1	0	-0.1	-0.33	-0.27	0	0	0	0	0	0
2/11/2025 12:28	67901	WNHO_T2	0	0	0	0	0	0	0.39	0.4	1	1	0	900	900	0
2/11/2025 12:28	61304	EARL_T1	0	0	0	0	0	0	-0.86	-0.7	1	1	0	600	600	0
2/11/2025 12:28	67903	WNHO_T1	0	0	0	0	0	0	1.12	1.18	1	1	0	1200	1200	0
2/11/2025 12:28	42701	AUGU_T1	1	2	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/11/2025 12:29	61304	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 12:56	60101	COCA_T1	0	0	0	0	0	0	0.38	0.42	0	0	0	0	0	0
2/11/2025 12:57	60101	COCA_T1	0	0	0	0	0	0	0.38	0.42	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/11/2025 12:59	44801	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 12:59	60101	COCA_T1	0	0	0	0	0	0	0.75	0.84	0	0	0	0	0	0
2/11/2025 13:05	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 13:06	52502	PROG_T2	0	0	0	0	0	0	0.58	0.53	0	0	0	0	0	0
2/11/2025 13:07	52502	PROG_T2	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
2/11/2025 13:08	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 13:09	52502	PROG_T2	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
2/11/2025 13:11	52502	PROG_T2	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
2/11/2025 13:15	40802	EXCH_T2	0	0	0	0	0	0	-0.54	-0.47	0	0	0	0	0	0
2/11/2025 13:16	40802	EXCH_T2	0	0	0	0	0	0	-0.54	-0.47	0	0	0	0	0	0
2/11/2025 13:17	47901	HRDG_T1	0	0	0	0	0	0	2	2.05	0	0	0	0	0	0
2/11/2025 13:27	27504	WEIS_T1	1	0	-1	0.3	0	-0.3	-0.83	-0.84	0	0	0	0	0	0
2/11/2025 13:29	16102	BING_T2	1	1	0	2	6.1	4.1	0.15	0	0	0	0	0	0	0
2/11/2025 13:33	40101	HUNT_T2	0	0	0	0	0	0	-1.44	-1.36	0	0	0	0	0	0
2/11/2025 13:35	55002	NEWP_T1	2	1	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/11/2025 13:35	58202	NEWV_T1	0	0	0	0	0	0	-0.01	0.06	0	0	0	0	0	0
2/11/2025 13:35	55001	NEWP_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	600	600	0
2/11/2025 13:37	55002	NEWP_T1	2	1	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/11/2025 13:37	55001	NEWP_T1	0	0	0	0	0	0	-0.94	-0.96	1	1	0	600	600	0
2/11/2025 13:44	59101	WALK_T2	0	0	0	0	0	0	1.31	1.39	0	0	0	0	0	0
2/11/2025 13:56	24202	PROV_T4	0	0	0	0	0	0	-0.69	-0.7	1	1	0	1200	1200	0
2/11/2025 14:10	60301	TWVA_T2	0	0	0	0	0	0	-3.11	-3.07	2	2	0	1800	1800	0
2/11/2025 14:14	63804	HEMP_T1	1	1	0	6.8	6.6	-0.2	0.58	0.71	0	0	0	0	0	0
2/11/2025 14:14	29402	BELT_T1	1	1	0	7.9	8.2	0.3	0	0	0	0	0	0	0	0
2/11/2025 14:14	29401	BELT_T1	14	6	-8	0.13	0.13	0	0	0	1	1	0	900	900	0
2/11/2025 14:21	58102	NEKI_T1	1	1	0	1.8	2	0.2	-0.96	-0.97	1	1	0	1200	1200	0
2/11/2025 14:24	57201	ROSS_T1	0	0	0	0	0	0	-1.17	-1.24	0	0	0	0	0	0
2/11/2025 14:25	65603	QVIL_T2	0	0	0	0	0	0	0.59	0.64	0	0	0	0	0	0
2/11/2025 14:25	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/11/2025 14:29	53502	EVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/11/2025 14:29	53501	EVIL_T2	1	2	1	1	0.7	-0.3	-1.43	-1.67	2	2	0	1500	1500	0
2/11/2025 14:37	65205	PRIN_T1	2	1	-1	1.15	0.1	-1.05	0	0	0	0	0	0	0	0
2/11/2025 14:37	57201	ROSS_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
2/11/2025 14:40	24901	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 14:40	24902	WHHA_T1	11	13	2	0.63	0.59	-0.04	0.38	0.28	0	0	0	0	0	0
2/11/2025 14:59	14201	EALL_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
2/11/2025 15:00	20603	GRWO_T2	0	0	0	0	0	0	-0.53	-0.52	1	1	0	900	900	0
2/11/2025 15:00	20601	GRWO_T2	11	4	-7	0.8	1.57	0.77	0	0	0	0	0	0	0	0
2/11/2025 15:01	48301	ORWI_T1	2	2	0	5.1	5.2	0.1	-0.38	-0.44	1	1	0	900	900	0
2/11/2025 15:01	41202	KENM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/11/2025 15:01	41205	KENM_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
2/11/2025 15:06	47202	FAXO_T2	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
2/11/2025 15:06	47203	FAXO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/11/2025 15:09	54601	SUMM_T2	1	1	0	0.3	0.2	-0.1	-1.63	-1.69	2	2	0	2100	2100	0
2/11/2025 15:19	41001	LAUR_T2	83	84	1	0.79	0.76	-0.03	0	0	0	0	0	0	0	0
2/11/2025 15:19	41002	LAUR_T2	56	56	0	0.83	0.68	-0.15	0	0	0	0	0	0	0	0
2/11/2025 15:21	59002	MIFF_T1	3	6	3	0.2	0.43	0.23	0	0	0	0	0	0	0	0
2/11/2025 15:21	59003	MIFF_T1	0	0	0	0	0	0	0.61	0.81	0	0	0	0	0	0
2/11/2025 15:22	47104	MARL_T1	0	0	0	0	0	0	-2.15	-2.13	0	0	0	0	0	0
2/11/2025 15:22	47101	MARL_T1	32	34	2	0.91	1.13	0.22	0	0	0	0	0	0	0	0
2/11/2025 15:27	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 15:27	46504	LOHA_T1	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
2/11/2025 15:27	46502	LOHA_T1	0	0	0	0	0	0	-1.39	-1.38	1	1	0	1200	1200	0
2/11/2025 15:27	46506	LOHA_T1	4	4	0	2.98	3.05	0.07	0	0	0	0	0	0	0	0
2/11/2025 15:30	59003	MIFF_T1	0	0	0	0	0	0	0.81	0.59	0	0	0	0	0	0
2/11/2025 15:30	59002	MIFF_T1	4	6	2	0.33	0.43	0.1	0	0	0	0	0	0	0	0
2/11/2025 15:35	46501	LOHA_T1	0	1	1	0	0	0	-0.01	0.03	1	1	0	1200	1200	0
2/11/2025 15:35	46506	LOHA_T1	4	3	-1	2.68	4.07	1.39	0	0	0	0	0	0	0	0
2/11/2025 15:35	46504	LOHA_T1	2	0	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
2/11/2025 15:40	59102	WALK_T2	0	0	0	0	0	0	0.42	0.38	0	0	0	0	0	0
2/11/2025 15:40	59101	WALK_T2	1	1	0	1.2	1.5	0.3	0	0	0	0	0	0	0	0
2/11/2025 15:54	59402	RFLD_T2	0	0	0	0	0	0	-0.74	-0.76	1	1	0	450	450	0
2/11/2025 15:57	22002	BOHE_T1	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
2/11/2025 15:57	22003	BOHE_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/11/2025 15:58	46002	BERW_T2	0	0	0	0	0	0	-0.85	-0.95	1	1	0	900	900	0
2/11/2025 15:58	46004	BERW_T2	1	4	3	0.2	0.9	0.7	0	0	0	0	0	0	0	0
2/11/2025 16:45	61503	EPET_T1	0	0	0	0	0	0	-0.26	-0.32	0	0	0	0	0	0
2/11/2025 17:07	65603	QVIL_T2	0	0	0	0	0	0	0.12	0.15	0	0	0	0	0	0
2/11/2025 17:07	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/11/2025 17:56	54601	SUMM_T2	0	0	0	0	0	0	-1.65	-1.61	2	2	0	2100	2100	0
2/11/2025 18:32	59402	RFLD_T2	0	0	0	0	0	0	-0.82	-0.84	1	1	0	450	450	0
2/11/2025 18:59	54504	ENOL_T2	0	0	0	0	0	0	-0.94	-0.95	1	1	0	600	600	0
2/11/2025 18:59	55002	NEWP_T1	3	4	1	0.73	0.98	0.25	0	0	0	0	0	0	0	0
2/11/2025 18:59	55001	NEWP_T1	0	5	5	0	0	0	-0.83	-0.85	1	1	0	600	600	0
2/11/2025 18:59	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/11/2025 18:59	54001	SDLE_T1	42	171	129	0.32	0.35	0.03	0	0	0	0	0	0	0	0
2/11/2025 19:00	58006	WCAR_T2	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
2/11/2025 19:01	57205	ROSS_T1	0	0	0	0	0	0	0.29	0.23	0	0	0	0	0	0
2/11/2025 19:01	54001	SDLE_T1	74	181	107	0.29	0.35	0.06	0	0	0	0	0	0	0	0
2/11/2025 19:01	54701	NEBL_T1	7	8	1	0.89	1.05	0.16	0	0	0	0	0	0	0	0
2/11/2025 19:02	64801	MONE_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
2/11/2025 19:04	59102	WALK_T2	0	14	14	0	0.19	0.19	0	0	0	0	0	0	0	0
2/11/2025 19:04	59101	WALK_T2	1	1	0	4.7	3.4	-1.3	1.54	0.95	0	1	1	0	600	600
2/11/2025 19:05	54001	SDLE_T1	74	181	107	0.29	0.35	0.06	0	0	0	0	0	0	0	0
2/11/2025 19:06	54001	SDLE_T1	74	181	107	0.29	0.35	0.06	0	0	0	0	0	0	0	0
2/11/2025 19:06	64802	MONE_T2	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
2/11/2025 19:06	55001	NEWP_T1	0	5	5	0	0	0	-0.83	-0.85	1	1	0	600	600	0
2/11/2025 19:06	55002	NEWP_T1	3	5	2	0.83	0.88	0.05	0	0	0	0	0	0	0	0
2/11/2025 19:07	59201	THOM_T1	57	81	24	0.52	0.68	0.16	0	0	0	0	0	0	0	0
2/11/2025 19:07	66302	MCGO_T2	0	0	0	0	0	0	-1.5	-1.51	1	1	0	600	600	0
2/11/2025 19:07	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:07	59202	THOM_T1	407	512	105	0.48	0.61	0.13	0	0	0	0	0	0	0	0
2/11/2025 19:08	24902	WHHA_T1	3	4	1	0.23	0.45	0.22	0	0	0	0	0	0	0	0
2/11/2025 19:08	58001	WCAR_T1	4	4	0	0.98	1.2	0.22	0	0	0	0	0	0	0	0
2/11/2025 19:08	58003	WCAR_T1	2	6	4	1.05	0.47	-0.58	0.59	0.59	0	0	0	0	0	0
2/11/2025 19:08	63804	HEMP_T1	1	1	0	6.6	6.5	-0.1	0.56	0.59	0	0	0	0	0	0
2/11/2025 19:08	24901	WHHA_T1	0	0	0	0	0	0	-0.68	-0.66	0	0	0	0	0	0
2/11/2025 19:09	59302	MCAL_T1	1	2	1	0.6	0.5	-0.1	-0.54	-0.51	1	1	0	600	600	0
2/11/2025 19:09	58006	WCAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:09	66302	MCGO_T2	0	0	0	0	0	0	-1.5	-1.51	1	1	0	600	600	0
2/11/2025 19:09	59301	MCAL_T1	2	17	15	0.9	0.26	-0.64	0	0	0	0	0	0	0	0
2/11/2025 19:10	58102	NEKI_T1	1	1	0	0.8	1	0.2	0.29	0.29	0	0	0	0	0	0
2/11/2025 19:10	59202	THOM_T1	407	512	105	0.48	0.61	0.13	0	0	0	0	0	0	0	0
2/11/2025 19:10	65503	MOJO_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
2/11/2025 19:10	59201	THOM_T1	57	81	24	0.52	0.68	0.16	0	0	0	0	0	0	0	0
2/11/2025 19:10	41902	REED_T1	3	2	-1	0.33	0	-0.33	0.36	0.33	1	1	0	900	900	0
2/11/2025 19:11	65502	MOJO_T2	0	0	0	0	0	0	-0.96	-0.95	0	0	0	0	0	0
2/11/2025 19:12	59201	THOM_T1	57	81	24	0.52	0.68	0.16	0	0	0	0	0	0	0	0
2/11/2025 19:12	59202	THOM_T1	407	512	105	0.48	0.61	0.13	0	0	0	0	0	0	0	0
2/11/2025 19:12	57201	ROSS_T1	0	0	0	0	0	0	-0.79	-0.67	0	0	0	0	0	0
2/11/2025 19:13	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:13	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/11/2025 19:13	60201	ATGL_T2	14	9	-5	0.24	0.31	0.07	0.06	0.12	0	0	0	0	0	0
2/11/2025 19:13	65603	QVIL_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
2/11/2025 19:14	54001	SDLE_T1	74	181	107	0.29	0.35	0.06	0	0	0	0	0	0	0	0
2/11/2025 19:14	53501	EVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:14	58001	WCAR_T1	4	4	0	0.98	1.2	0.22	0	0	0	0	0	0	0	0
2/11/2025 19:14	58003	WCAR_T1	2	6	4	1.05	0.47	-0.58	0.59	0.59	0	0	0	0	0	0
2/11/2025 19:14	53502	EVIL_T2	0	10	10	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:15	54505	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/11/2025 19:15	54503	ENOL_T2	0	0	0	0	0	0	-0.33	-0.33	1	1	0	600	600	0
2/11/2025 19:15	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:15	57201	ROSS_T1	0	0	0	0	0	0	-0.79	-0.67	0	0	0	0	0	0
2/11/2025 19:15	41902	REED_T1	2	1	-1	0.3	0	-0.3	0.36	0.33	1	1	0	900	900	0
2/11/2025 19:16	52502	PROG_T2	0	0	0	0	0	0	-0.35	-0.35	1	1	0	900	900	0
2/11/2025 19:16	60201	ATGL_T2	9	9	0	0.31	0.24	-0.07	0.06	0.12	0	0	0	0	0	0
2/11/2025 19:17	52403	GRPA_T2	2	2	0	0.15	0.1	-0.05	-0.26	-0.27	0	0	0	0	0	0
2/11/2025 19:17	52401	GRPA_T2	1	28	27	0.1	0.14	0.04	0	0	0	0	0	0	0	0
2/11/2025 19:17	52404	GRPA_T2	2	1	-1	0.65	0.9	0.25	0	0	0	0	0	0	0	0
2/11/2025 19:17	52402	GRPA_T2	5	1	-4	0.34	0.5	0.16	0	0	0	0	0	0	0	0
2/11/2025 19:18	47101	MARL_T1	76	89	13	0.97	1	0.03	0	0	0	0	0	0	0	0
2/11/2025 19:18	61304	EARL_T1	0	0	0	0	0	0	-0.82	-0.83	1	1	0	600	600	0
2/11/2025 19:18	67402	WAKE_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
2/11/2025 19:18	67901	WNHO_T2	1	3	2	0.1	0.1	0	-0.07	-0.05	0	0	0	0	0	0
2/11/2025 19:18	45902	AUBU_T1	9	6	-3	0.94	0.5	-0.44	0.01	0.01	1	1	0	600	600	0
2/11/2025 19:18	62105	ELAN_T1	0	0	0	0	0	0	0.53	0.58	0	0	0	0	0	0
2/11/2025 19:18	61301	EARL_T1	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
2/11/2025 19:18	47104	MARL_T1	0	0	0	0	0	0	-2.12	-2.14	0	0	0	0	0	0
2/11/2025 19:19	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:19	57403	SPAN_T1	0	8	8	0	0.28	0.28	0	0	0	0	0	0	0	0
2/11/2025 19:19	57401	SPAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/11/2025 19:19	65601	QVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/11/2025 19:19	52502	PROG_T2	0	0	0	0	0	0	-0.35	-0.35	1	1	0	900	900	0
2/11/2025 19:19	54001	SDLE_T1	171	169	-2	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
2/11/2025 19:19	10805	CHHI_T2	4	1	-3	2.03	7.5	5.47	-1.25	-1.24	1	1	0	600	600	0
2/11/2025 19:20	45902	AUBU_T1	9	6	-3	0.94	0.5	-0.44	0.01	0.01	1	1	0	600	600	0
2/11/2025 19:20	57403	SPAN_T1	0	8	8	0	0.28	0.28	0.18	0.24	0	0	0	0	0	0
2/11/2025 19:20	67402	WAKE_T2	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
2/11/2025 19:20	58401	MORO_T1	0	0	0	0	0	0	-0.85	-0.89	1	1	0	600	600	0
2/11/2025 19:20	57401	SPAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/11/2025 19:20	55002	NEWP_T1	4	5	1	0.98	0.88	-0.1	-0.18	-0.18	0	0	0	0	0	0
2/11/2025 19:21	45902	AUBU_T1	9	6	-3	0.94	0.5	-0.44	0.01	0.01	1	1	0	600	600	0
2/11/2025 19:21	57403	SPAN_T1	0	8	8	0	0.28	0.28	0.18	0.24	0	0	0	0	0	0
2/11/2025 19:21	60101	COCA_T1	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
2/11/2025 19:21	46506	LOHA_T1	4	4	0	1.38	1.55	0.17	0	0	0	0	0	0	0	0
2/11/2025 19:21	65205	PRIN_T1	2	2	0	0.55	1	0.45	0	0	0	0	0	0	0	0
2/11/2025 19:21	11101	EGYP_T1	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
2/11/2025 19:21	61304	EARL_T1	0	0	0	0	0	0	-0.83	-0.84	1	1	0	600	600	0
2/11/2025 19:21	24202	PROV_T4	0	0	0	0	0	0	-0.66	-0.77	1	1	0	1200	1200	0
2/11/2025 19:21	60301	TWVA_T2	0	0	0	0	0	0	-2.53	-1.2	1	1	0	1200	1200	0
2/11/2025 19:21	11104	EGYP_T1	20	23	3	0.33	0.33	0	0	0	0	0	0	0	0	0
2/11/2025 19:21	16302	ALPA_T2	0	0	0	0	0	0	-0.38	-0.42	0	0	0	0	0	0
2/11/2025 19:21	54001	SDLE_T1	171	169	-2	0.35	0.31	-0.04	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/11/2025 19:21	57401	SPAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/11/2025 19:21	46501	LOHA_T1	2	3	1	0.35	0.35	0	-0.06	-0.09	1	1	0	1200	1200	0
2/11/2025 19:21	16102	BING_T2	0	1	1	0	0.4	0.4	0	-0.01	0	0	0	0	0	0
2/11/2025 19:22	46002	BERW_T2	0	0	0	0	0	0	-1.09	-1.05	1	1	0	900	900	0
2/11/2025 19:22	53601	DALM_T2	0	2	2	0	0	0	-0.12	-0.1	0	0	0	0	0	0
2/11/2025 19:22	60101	COCA_T1	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
2/11/2025 19:22	46004	BERW_T2	8	8	0	0.58	0.83	0.25	0	0	0	0	0	0	0	0
2/11/2025 19:22	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:23	48301	ORWI_T1	2	2	0	5.3	5.5	0.2	-0.45	-0.45	1	1	0	900	900	0
2/11/2025 19:23	16103	BING_T2	0	0	0	0	0	0	-2.05	-2.05	2	2	0	1500	1500	0
2/11/2025 19:23	16102	BING_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/11/2025 19:23	40802	EXCH_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
2/11/2025 19:23	58202	NEWV_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
2/11/2025 19:23	52502	PROG_T2	0	0	0	0	0	0	-0.35	-0.33	1	1	0	900	900	0
2/11/2025 19:23	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:23	61304	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:23	58201	NEWV_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/11/2025 19:23	61502	EPET_T1	0	0	0	0	0	0	-1.04	-0.89	0	0	0	0	0	0
2/11/2025 19:23	45902	AUBU_T1	9	6	-3	0.94	0.5	-0.44	0.01	0.01	1	1	0	600	600	0
2/11/2025 19:23	14801	TREI_T2	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
2/11/2025 19:23	16302	ALPA_T2	0	0	0	0	0	0	-0.38	-0.42	0	0	0	0	0	0
2/11/2025 19:23	47202	FAXO_T2	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
2/11/2025 19:23	24902	WHHA_T1	2	5	3	0.45	0.45	0	0.19	0.15	0	0	0	0	0	0
2/11/2025 19:23	47203	FAXO_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
2/11/2025 19:24	67106	SPRI_T2	0	0	0	0	0	0	-2.46	-2.44	2	2	0	1800	1800	0
2/11/2025 19:24	29402	BELT_T1	5	5	0	1.66	1.56	-0.1	0	0	0	0	0	0	0	0
2/11/2025 19:24	41205	KENM_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
2/11/2025 19:24	40602	PIGR_T1	0	6	6	0	0.24	0.24	0	0	0	0	0	0	0	0
2/11/2025 19:24	40601	PIGR_T1	1	151	150	0.1	0.34	0.24	0	0	0	0	0	0	0	0
2/11/2025 19:24	47901	HRDG_T1	0	0	0	0	0	0	0.47	0.72	0	0	0	0	0	0
2/11/2025 19:24	44203	POIN_T2	1	1	0	0.1	0.7	0.6	-0.52	-0.56	2	2	0	2100	2100	0
2/11/2025 19:24	60101	COCA_T1	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
2/11/2025 19:24	40603	PIGR_T1	3	0	-3	0.63	0	-0.63	0	0	0	0	0	0	0	0
2/11/2025 19:24	60201	ATGL_T2	9	9	0	0.31	0.24	-0.07	0	0	0	0	0	0	0	0
2/11/2025 19:24	58401	MORO_T1	0	0	0	0	0	0	-0.89	-0.93	1	1	0	600	600	0
2/11/2025 19:24	29401	BELT_T1	10	36	26	0.14	0.2	0.06	0	0	1	1	0	900	900	0
2/11/2025 19:24	46802	HEPB_T1	1	1	0	1.2	1.3	0.1	-1.15	-1.13	0	0	0	0	0	0
2/11/2025 19:25	45501	DERR_T2	0	2	2	0	0	0	0.29	0.28	2	2	0	1800	1800	0
2/11/2025 19:25	52502	PROG_T2	0	0	0	0	0	0	-0.35	-0.33	1	1	0	900	900	0
2/11/2025 19:25	15404	WALL_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
2/11/2025 19:25	16302	ALPA_T2	0	0	0	0	0	0	-0.38	-0.42	0	0	0	0	0	0
2/11/2025 19:25	46101	MACI_T2	0	0	0	0	0	0	-0.56	-0.55	1	1	0	1200	1200	0
2/11/2025 19:25	40702	FFLD_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
2/11/2025 19:25	61304	EARL_T1	0	0	0	0	0	0	-0.83	-0.84	1	1	0	600	600	0
2/11/2025 19:25	45902	AUBU_T1	9	6	-3	0.94	0.5	-0.44	0.01	0.01	1	1	0	600	600	0
2/11/2025 19:25	46506	LOHA_T1	4	4	0	1.38	1.55	0.17	0	0	0	0	0	0	0	0
2/11/2025 19:25	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
2/11/2025 19:25	46206	DANV_T2	0	0	0	0	0	0	1.38	1.39	2	2	0	2100	2100	0
2/11/2025 19:25	46203	DANV_T2	244	226	-18	0.81	0.76	-0.05	0	0	0	0	0	0	0	0
2/11/2025 19:25	46501	LOHA_T1	2	3	1	0.35	0.35	0	0	0	0	0	0	0	0	0
2/11/2025 19:26	41002	LAUR_T2	11	12	1	0.35	0.39	0.04	0	0	0	0	0	0	0	0
2/11/2025 19:26	60101	COCA_T1	0	0	0	0	0	0	0.44	0.47	0	0	0	0	0	0
2/11/2025 19:26	41001	LAUR_T2	22	52	30	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
2/11/2025 19:27	44502	HAMI_T2	1	1	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
2/11/2025 19:27	14201	EALL_T1	0	0	0	0	0	0	0.58	0.56	0	0	0	0	0	0
2/11/2025 19:27	20603	GRWO_T2	29	36	7	0.87	1.12	0.25	-0.47	-0.49	1	1	0	900	900	0
2/11/2025 19:27	10801	CHHI_T1	1	1	0	0.8	0	-0.8	-2.05	-2.06	3	3	0	2100	2100	0
2/11/2025 19:27	16302	ALPA_T2	0	0	0	0	0	0	-0.38	-0.42	0	0	0	0	0	0
2/11/2025 19:27	67901	WNHO_T2	1	3	2	0.1	0.1	0	-0.05	-0.01	0	0	0	0	0	0
2/11/2025 19:27	44505	HAMI_T2	0	0	0	0	0	0	-0.1	-0.14	0	0	0	0	0	0
2/11/2025 19:27	22003	BOHE_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/11/2025 19:27	22002	BOHE_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
2/11/2025 19:27	44501	HAMI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:27	20601	GRWO_T2	5	1	-4	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
2/11/2025 19:28	59101	WALK_T2	1	1	0	3.4	4.2	0.8	0.96	0.8	1	1	0	600	600	0
2/11/2025 19:28	65502	MOJO_T2	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
2/11/2025 19:28	59102	WALK_T2	12	12	0	0.14	0.2	0.06	0	0	0	0	0	0	0	0
2/11/2025 19:28	53501	EVIL_T2	0	0	0	0	0	0	-0.74	-0.81	1	1	0	600	600	0
2/11/2025 19:28	53502	EVIL_T2	0	10	10	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:29	45501	DERR_T2	0	2	2	0	0	0	0.29	0.28	2	2	0	1800	1800	0
2/11/2025 19:29	40602	PIGR_T1	0	6	6	0	0.24	0.24	-0.98	-0.83	0	0	0	0	0	0
2/11/2025 19:29	40603	PIGR_T1	3	0	-3	0.63	0	-0.63	0	0	0	0	0	0	0	0
2/11/2025 19:29	27501	WEIS_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/11/2025 19:29	14204	EALL_T2	0	0	0	0	0	0	0.1	0.07	0	0	0	0	0	0
2/11/2025 19:29	44502	HAMI_T2	1	1	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
2/11/2025 19:29	40601	PIGR_T1	1	151	150	0.1	0.34	0.24	0	0	0	0	0	0	0	0
2/11/2025 19:29	46203	DANV_T2	244	226	-18	0.81	0.76	-0.05	-1.69	-1.66	0	0	0	0	0	0
2/11/2025 19:29	11104	EGYP_T1	20	23	3	0.33	0.33	0	0	0	0	0	0	0	0	0
2/11/2025 19:29	46206	DANV_T2	0	0	0	0	0	0	1.38	1.39	2	2	0	2100	2100	0
2/11/2025 19:29	44501	HAMI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:29	27504	WEIS_T1	0	0	0	0	0	0	-0.8	-0.85	0	0	0	0	0	0
2/11/2025 19:29	11103	EGYP_T1	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
2/11/2025 19:29	67201	TEHI_T1	0	1	1	0	0.1	0.1	-0.21	-0.27	1	1	0	900	900	0
2/11/2025 19:29	59002	MIFF_T1	2	4	2	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
2/11/2025 19:29	59003	MIFF_T1	1	1	0	0.5	0.5	0	0.26	0.58	0	0	0	0	0	0
2/11/2025 19:29	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:30	59101	WALK_T2	1	1	0	4.2	4.5	0.3	0	0	0	0	0	0	0	0
2/11/2025 19:30	44801	EDAN_T2	1	1	0	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
2/11/2025 19:30	44203	POIN_T2	1	1	0	1.1	0	-1.1	-0.52	-0.56	2	2	0	2100	2100	0
2/11/2025 19:30	59102	WALK_T2	12	0	-12	0.2	0	-0.2	0.3	0.27	0	0	0	0	0	0
2/11/2025 19:30	61304	EARL_T1	0	3	3	0	0.1	0.1	-0.83	-0.84	1	1	0	600	600	0
2/11/2025 19:30	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
2/11/2025 19:30	42701	AUGU_T1	24	10	-14	0.59	0.53	-0.06	0	0	0	0	0	0	0	0
2/11/2025 19:30	46203	DANV_T2	197	247	50	0.77	0.79	0.02	-1.69	-1.66	0	0	0	0	0	0
2/11/2025 19:31	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
2/11/2025 19:31	40101	HUNT_T2	17	19	2	0.81	0.3	-0.51	-1.39	-1.38	0	0	0	0	0	0
2/11/2025 19:31	67106	SPRI_T2	0	0	0	0	0	0	-1.23	-1.22	1	1	0	900	900	0
2/11/2025 19:31	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:31	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:32	55001	NEWP_T1	0	0	0	0	0	0	-0.83	-0.84	1	1	0	600	600	0
2/11/2025 19:32	55002	NEWP_T1	5	3	-2	0.88	0.7	-0.18	0	0	0	0	0	0	0	0
2/11/2025 19:32	24902	WHHA_T1	4	6	2	0.45	0.3	-0.15	0.19	0.15	0	0	0	0	0	0
2/11/2025 19:33	46501	LOHA_T1	2	3	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/11/2025 19:33	44801	EDAN_T2	1	1	0	1.5	0.9	-0.6	-0.41	-0.4	0	0	0	0	0	0
2/11/2025 19:33	46506	LOHA_T1	3	4	1	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
2/11/2025 19:33	16302	ALPA_T2	0	0	0	0	0	0	-0.38	-0.42	0	0	0	0	0	0
2/11/2025 19:33	40802	EXCH_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
2/11/2025 19:33	46503	LOHA_T1	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
2/11/2025 19:33	43201	MVIL_T2	0	1	1	0	0	0	-0.32	-0.31	0	0	0	0	0	0
2/11/2025 19:33	43202	MVIL_T2	3	3	0	0.63	1.27	0.64	0	0	0	0	0	0	0	0
2/11/2025 19:33	10801	CHHI_T1	1	0	-1	1.3	0	-1.3	-2.05	-2.06	3	3	0	2100	2100	0
2/11/2025 19:33	42701	AUGU_T1	24	10	-14	0.59	0.53	-0.06	0	0	0	0	0	0	0	0
2/11/2025 19:33	10401	LIGA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:34	23402	HONE_T2	6	0	-6	0.53	0	-0.53	0	0	0	0	0	0	0	0
2/11/2025 19:34	62106	ELAN_T1	0	0	0	0	0	0	0.28	0.24	0	0	0	0	0	0
2/11/2025 19:34	20603	GRWO_T2	33	39	6	1.2	0.94	-0.26	0	0	0	0	0	0	0	0
2/11/2025 19:34	23401	HONE_T2	5	1	-4	0.32	0	-0.32	0.14	0.14	0	0	0	0	0	0
2/11/2025 19:34	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:34	44801	EDAN_T2	1	1	0	1.5	0.9	-0.6	-0.41	-0.4	0	0	0	0	0	0
2/11/2025 19:34	67903	WNHO_T1	0	0	0	0	0	0	1.29	1.19	1	1	0	1200	1200	0
2/11/2025 19:34	20601	GRWO_T2	1	1	0	0.2	1.5	1.3	0.04	0.01	0	0	0	0	0	0
2/11/2025 19:34	46203	DANV_T2	197	247	50	0.77	0.79	0.02	-1.69	-1.66	0	0	0	0	0	0
2/11/2025 19:34	62105	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/11/2025 19:35	44501	HAMI_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
2/11/2025 19:35	20603	GRWO_T2	33	39	6	1.2	0.94	-0.26	0	0	0	0	0	0	0	0
2/11/2025 19:35	44505	HAMI_T2	0	0	0	0	0	0	-0.1	-0.14	0	0	0	0	0	0
2/11/2025 19:35	40101	HUNT_T2	17	19	2	0.81	0.3	-0.51	-1.39	-1.38	0	0	0	0	0	0
2/11/2025 19:35	11102	EGYP_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:35	11101	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:35	46203	DANV_T2	197	247	50	0.77	0.79	0.02	-1.69	-1.66	0	0	0	0	0	0
2/11/2025 19:35	11104	EGYP_T1	7	27	20	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
2/11/2025 19:35	20601	GRWO_T2	1	1	0	0.2	1.5	1.3	0.04	0.01	0	0	0	0	0	0
2/11/2025 19:35	44502	HAMI_T2	1	1	0	2.2	2.6	0.4	0	0	0	0	0	0	0	0
2/11/2025 19:36	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2025 19:36	46203	DANV_T2	197	247	50	0.77	0.79	0.02	-1.66	-1.68	0	0	0	0	0	0
2/11/2025 19:36	47203	FAXO_T2	1	1	0	0.5	0.8	0.3	0.36	-0.36	0	0	0	0	0	0
2/11/2025 19:36	60104	COCA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/11/2025 19:39	46206	DANV_T2	0	0	0	0	0	0	1.39	1.3	2	2	0	2100	2100	0
2/11/2025 19:39	46203	DANV_T2	197	247	50	0.77	0.79	0.02	0	0	0	0	0	0	0	0
2/11/2025 19:57	61304	EARL_T1	0	9	9	0	0.12	0.12	-0.87	-0.88	1	1	0	600	600	0
2/11/2025 21:43	57401	SPAN_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
2/11/2025 21:43	57403	SPAN_T1	0	5	5	0	0.12	0.12	0.24	0.16	0	0	0	0	0	0
2/11/2025 22:22	64801	MONE_T2	27	69	42	0.17	0.28	0.11	0	0	0	0	0	0	0	0
2/11/2025 22:22	64802	MONE_T2	34	72	38	0.25	0.36	0.11	0.06	0.08	0	0	0	0	0	0
2/12/2025 0:23	55001	NEWP_T1	0	0	0	0	0	0	-1.04	-1.03	1	1	0	600	600	0
2/12/2025 0:23	55002	NEWP_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
2/12/2025 0:36	57201	ROSS_T1	0	0	0	0	0	0	-0.79	-0.9	0	0	0	0	0	0
2/12/2025 0:37	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/12/2025 0:37	65207	PRIN_T4	3	3	0	2.17	2.1	-0.07	0	0	0	0	0	0	0	0
2/12/2025 0:39	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/12/2025 0:39	65602	QVIL_T2	2	3	1	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
2/12/2025 0:39	65603	QVIL_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
2/12/2025 8:57	45502	DERR_T2	4	0	-4	0.73	0	-0.73	0	0	0	0	0	0	0	0
2/12/2025 8:57	45501	DERR_T2	1	1	0	0.2	0	-0.2	0.64	0.62	2	2	0	1800	1800	0
2/12/2025 8:59	45501	DERR_T2	1	1	0	0.2	0	-0.2	0.64	0.62	2	2	0	1800	1800	0
2/12/2025 8:59	45502	DERR_T2	4	0	-4	0.73	0	-0.73	0	0	0	0	0	0	0	0
2/12/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.45	0.39	0	0	0	0	0	0
2/12/2025 9:00	28102	TWLA_T2	1	1	0	0.7	0	-0.7	0.24	0.23	0	0	0	0	0	0
2/12/2025 9:07	67503	WEWI_T2	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
2/12/2025 9:11	22002	BOHE_T1	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
2/12/2025 9:13	45501	DERR_T2	0	1	1	0	0	0	0.62	0.6	2	2	0	1800	1800	0
2/12/2025 9:14	45501	DERR_T2	0	1	1	0	0	0	0.62	0.6	2	2	0	1800	1800	0
2/12/2025 9:29	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/12/2025 9:29	44502	HAMI_T2	1	2	1	2.2	2.3	0.1	0	0	0	0	0	0	0	0
2/12/2025 10:08	24201	PROV_T3	3	4	1	6.03	3.78	-2.25	-1.46	-1.39	1	1	0	1200	1200	0
2/12/2025 10:08	24204	PROV_T3	1	2	1	6.3	2.85	-3.45	0	0	0	0	0	0	0	0
2/12/2025 10:10	67001	STHI_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
2/12/2025 10:10	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/12/2025 10:11	24902	WHHA_T1	6	6	0	0.93	0.56	-0.37	0.85	0.81	0	0	0	0	0	0
2/12/2025 10:15	28403	HART_T2	0	0	0	0	0	0	-0.77	-0.77	1	1	0	900	900	0
2/12/2025 10:17	53502	EVIL_T2	1	11	10	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
2/12/2025 10:17	53501	EVIL_T2	1	2	1	0.1	0.3	0.2	-1.08	-1.14	2	2	0	1200	1200	0
2/12/2025 10:34	46802	HEPB_T1	13	4	-9	0.31	0.58	0.27	-1.17	-1.2	0	0	0	0	0	0
2/12/2025 10:41	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/12/2025 10:41	29402	BELT_T1	1	1	0	7	6.7	-0.3	0	0	0	0	0	0	0	0
2/12/2025 10:42	60201	ATGL_T2	7	6	-1	0.3	0.32	0.02	0.22	0.18	0	0	0	0	0	0
2/12/2025 10:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/12/2025 10:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/12/2025 10:49	16401	MOPO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/12/2025 10:49	16402	MOPO_T1	11	4	-7	0.44	0.3	-0.14	0.28	0.25	0	0	0	0	0	0
2/12/2025 10:50	46602	LACR_T1	0	0	0	0	0	0	-0.63	-0.59	0	0	0	0	0	0
2/12/2025 11:03	23401	HONE_T2	7	4	-3	0.33	0.4	0.07	0.17	0.12	0	0	0	0	0	0
2/12/2025 11:06	47103	MARL_T2	39	28	-11	0.33	0.31	-0.02	-0.4	-0.4	0	0	0	0	0	0
2/12/2025 11:06	47102	MARL_T2	13	13	0	0.66	0.62	-0.04	0	0	0	0	0	0	0	0
2/12/2025 11:12	24902	WHHA_T1	5	10	5	0.8	0.69	-0.11	0.93	1.44	0	0	0	0	0	0
2/12/2025 11:20	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/12/2025 11:28	44801	EDAN_T2	0	0	0	0	0	0	-0.32	-0.35	0	0	0	0	0	0
2/12/2025 11:29	44801	EDAN_T2	0	0	0	0	0	0	-0.32	-0.35	0	0	0	0	0	0
2/12/2025 11:32	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/12/2025 11:32	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/12/2025 11:32	64201	KINZ_T1	0	0	0	0	0	0	-0.28	-0.33	3	3	0	1500	1500	0
2/12/2025 11:38	24202	PROV_T4	0	0	0	0	0	0	-0.76	-0.68	1	1	0	1200	1200	0
2/12/2025 11:40	44801	EDAN_T2	0	0	0	0	0	0	-0.35	-0.3	0	0	0	0	0	0
2/12/2025 11:55	14603	SWHI_T1	0	0	0	0	0	0	-1.58	-1.58	2	2	0	1200	1200	0
2/12/2025 11:57	60301	TWVA_T2	0	0	0	0	0	0	-3.06	-3.08	2	2	0	1800	1800	0
2/12/2025 12:02	20603	GRWO_T2	10	5	-5	0.43	0	-0.43	0	0	0	0	0	0	0	0
2/12/2025 12:02	20601	GRWO_T2	2	2	0	0.95	0.4	-0.55	0.4	0.32	0	0	0	0	0	0
2/12/2025 12:03	54502	ENOL_T2	0	0	0	0	0	0	-2.02	-2	1	1	0	600	600	0
2/12/2025 12:03	54505	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/12/2025 12:08	40601	PIGR_T1	37	132	95	0.16	0.28	0.12	0	0	0	0	0	0	0	0
2/12/2025 12:08	40602	PIGR_T1	2	3	1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
2/12/2025 12:20	55501	HERS_T1	0	16	16	0	0.1	0.1	0	0	0	0	0	0	0	0
2/12/2025 12:20	55503	HERS_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
2/12/2025 12:22	47401	PENS_T1	0	0	0	0	0	0	0.93	0.99	0	0	0	0	0	0
2/12/2025 12:22	47403	PENS_T1	9	0	-9	0.13	0	-0.13	0	0	0	0	0	0	0	0
2/12/2025 12:23	57404	SPAN_T2	0	0	0	0	0	0	0.12	0.18	1	1	0	1200	1200	0
2/12/2025 12:25	65601	QVIL_T2	88	151	63	0.19	0.23	0.04	0	0	0	0	0	0	0	0
2/12/2025 12:25	65602	QVIL_T2	11	18	7	0.26	0.27	0.01	0	0	0	0	0	0	0	0
2/12/2025 12:25	65604	QVIL_T2	3	3	0	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
2/12/2025 12:25	65603	QVIL_T2	108	169	61	0.17	0.22	0.05	0	0	0	0	0	0	0	0
2/12/2025 12:27	20403	ASHF_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
2/12/2025 12:27	20401	ASHF_T2	1	3	2	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
2/12/2025 12:27	60803	BUCK_T1	22	22	0	0.89	0.88	-0.01	0	0	0	0	0	0	0	0
2/12/2025 12:27	60801	BUCK_T1	58	50	-8	0.62	0.48	-0.14	-0.11	-0.13	0	0	0	0	0	0
2/12/2025 12:27	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/12/2025 12:30	60801	BUCK_T1	48	46	-2	0.46	0.47	0.01	-0.11	-0.13	0	0	0	0	0	0
2/12/2025 12:30	60803	BUCK_T1	22	21	-1	0.88	0.73	-0.15	0	0	0	0	0	0	0	0
2/12/2025 12:42	20402	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/12/2025 12:42	20401	ASHF_T2	3	2	-1	0.13	0.1	-0.03	-0.17	-0.2	1	1	0	600	600	0
2/12/2025 12:45	47203	FAXO_T2	1	1	0	0.5	0.3	-0.2	-0.35	-0.34	0	0	0	0	0	0
2/12/2025 13:12	60803	BUCK_T1	18	19	1	0.71	0.55	-0.16	0	0	0	0	0	0	0	0
2/12/2025 13:12	60801	BUCK_T1	22	25	3	0.27	0.24	-0.03	0.14	0	0	0	0	0	0	0
2/12/2025 13:14	60803	BUCK_T1	18	19	1	0.71	0.55	-0.16	0	0	0	0	0	0	0	0
2/12/2025 13:14	60801	BUCK_T1	22	25	3	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
2/12/2025 13:16	24104	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/12/2025 13:16	24102	EHAZ_T1	5	3	-2	0.34	0.2	-0.14	-0.12	-0.08	0	0	0	0	0	0
2/12/2025 13:16	24101	EHAZ_T1	48	39	-9	1.11	1.35	0.24	0	0	0	0	0	0	0	0
2/12/2025 13:16	24105	EHAZ_T1	4	9	5	5.98	5.8	-0.18	0	0	0	0	0	0	0	0
2/12/2025 13:28	24901	WHHA_T1	0	0	0	0	0	0	-0.69	-0.66	0	0	0	0	0	0
2/12/2025 13:28	24902	WHHA_T1	6	5	-1	0.67	0.5	-0.17	0	0	0	0	0	0	0	0
2/12/2025 13:31	10805	CHHI_T2	1	1	0	8	7.9	-0.1	-0.94	-0.91	1	1	0	600	600	0
2/12/2025 13:31	40101	HUNT_T2	0	1	1	0	0	0	-1.07	-1.08	0	0	0	0	0	0
2/12/2025 13:40	60801	BUCK_T1	25	34	9	0.24	0.34	0.1	-0.03	-0.01	0	0	0	0	0	0
2/12/2025 13:40	60803	BUCK_T1	18	21	3	0.55	0.62	0.07	0	0	0	0	0	0	0	0
2/12/2025 13:43	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/12/2025 13:43	10705	CATA_T2	0	0	0	0	0	0	-0.84	-0.84	1	1	0	900	900	0
2/12/2025 13:47	20603	GRWO_T2	0	12	12	0	0.36	0.36	-0.55	-0.55	1	1	0	900	900	0
2/12/2025 13:47	20601	GRWO_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
2/12/2025 13:48	46903	MNTG_T2	0	0	0	0	0	0	-0.72	-0.73	1	1	0	600	600	0
2/12/2025 13:50	46901	MNTG_T2	0	0	0	0	0	0	-0.03	-0.06	1	1	0	1200	1200	0
2/12/2025 14:01	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/12/2025 14:02	47203	FAXO_T2	1	1	0	0.2	0.1	-0.1	-0.36	-0.38	0	0	0	0	0	0
2/12/2025 14:04	45801	HEGI_T1	0	0	0	0	0	0	0.02	-0.07	1	1	0	900	900	0
2/12/2025 14:07	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/12/2025 14:08	22602	KIMB_T1	1	1	0	0.1	0.3	0.2	0.14	0.14	0	0	0	0	0	0
2/12/2025 14:09	24204	PROV_T3	1	2	1	5.6	2.8	-2.8	0	0	0	0	0	0	0	0
2/12/2025 14:09	59201	THOM_T1	7	19	12	0.26	0.36	0.1	0	0	0	0	0	0	0	0
2/12/2025 14:09	59202	THOM_T1	28	85	57	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/12/2025 14:09	22602	KIMB_T1	1	1	0	0.1	0.3	0.2	0.14	0.14	0	0	0	0	0	0
2/12/2025 14:09	24201	PROV_T3	3	4	1	5.3	3.93	-1.37	-1.44	-1.42	1	1	0	1200	1200	0
2/12/2025 14:13	10801	CHHI_T1	0	0	0	0	0	0	-1.46	-1.5	2	2	0	1500	1500	0
2/12/2025 14:15	20601	GRWO_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/12/2025 14:15	20603	GRWO_T2	12	11	-1	0.64	0.1	-0.54	-0.54	-0.52	1	1	0	900	900	0
2/12/2025 14:28	46001	BERW_T1	0	0	0	0	0	0	1.05	1.09	0	0	0	0	0	0
2/12/2025 14:33	45801	HEGI_T1	0	0	0	0	0	0	-0.12	-0.17	1	1	0	900	900	0
2/12/2025 14:46	40504	CRES_T1	15	4	-11	0.1	0.1	0	-1.73	-1.72	0	0	0	0	0	0
2/12/2025 18:33	47203	FAXO_T2	1	1	0	0.2	0.5	0.3	-1.03	-1.05	0	0	0	0	0	0
2/12/2025 18:43	24901	WHHA_T1	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
2/12/2025 18:43	24902	WHHA_T1	18	24	6	0.58	0.69	0.11	0	0	0	0	0	0	0	0
2/12/2025 18:52	59201	THOM_T1	70	66	-4	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
2/12/2025 18:52	59202	THOM_T1	466	427	-39	0.5	0.49	-0.01	0	0	0	0	0	0	0	0
2/12/2025 18:59	46802	HEPB_T1	4	6	2	0.45	0.35	-0.1	-1.09	-1.07	0	0	0	0	0	0
2/12/2025 19:01	24902	WHHA_T1	23	17	-6	0.96	0.79	-0.17	0.85	0.84	0	0	0	0	0	0
2/12/2025 19:02	20401	ASHF_T2	5	5	0	0.56	0.23	-0.33	-0.1	-0.09	1	1	0	600	600	0
2/12/2025 19:03	46903	MNTG_T2	0	3	3	0	0.1	0.1	-0.73	-0.74	1	1	0	600	600	0
2/12/2025 19:03	24102	EHAZ_T1	0	9	9	0	1.02	1.02	-0.73	-0.14	0	0	0	0	0	0
2/12/2025 19:03	24105	EHAZ_T1	16	17	1	2.46	5.73	3.27	0	0	0	0	0	0	0	0
2/12/2025 19:03	24101	EHAZ_T1	31	28	-3	1.21	1.29	0.08	0	0	0	0	0	0	0	0
2/12/2025 19:04	46602	LACR_T1	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
2/12/2025 19:04	20603	GRWO_T2	21	24	3	0.31	0.32	0.01	-0.46	-0.5	1	1	0	900	900	0
2/12/2025 19:04	20601	GRWO_T2	4	1	-3	0.9	3.4	2.5	0	0	0	0	0	0	0	0
2/12/2025 19:06	47401	PENS_T1	0	0	0	0	0	0	0.91	0.9	0	0	0	0	0	0
2/12/2025 19:07	20601	GRWO_T2	4	1	-3	0.9	3.4	2.5	0	0	0	0	0	0	0	0
2/12/2025 19:07	20603	GRWO_T2	21	24	3	0.31	0.32	0.01	-0.5	0.52	1	0	-1	900	0	-900
2/12/2025 19:08	16402	MOPO_T1	0	3	3	0	0.15	0.15	0.24	0.24	0	0	0	0	0	0
2/12/2025 19:09	29402	BELT_T1	6	12	6	1.43	1.67	0.24	0	0	0	0	0	0	0	0
2/12/2025 19:09	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/12/2025 19:10	24902	WHHA_T1	23	17	-6	0.96	0.79	-0.17	0.84	0.86	0	0	0	0	0	0
2/12/2025 19:11	46001	BERW_T1	0	1	1	0	0	0	0.7	0.73	0	0	0	0	0	0
2/12/2025 19:11	20403	ASHF_T2	0	0	0	0	0	0	0.59	0.54	0	0	0	0	0	0
2/12/2025 19:11	20401	ASHF_T2	5	5	0	0.56	0.23	-0.33	0	0	0	0	0	0	0	0
2/12/2025 19:11	45801	HEGI_T1	0	0	0	0	0	0	-0.19	-0.23	1	1	0	900	900	0
2/12/2025 19:12	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/12/2025 19:13	10705	CATA_T2	0	0	0	0	0	0	-0.81	-0.81	1	1	0	900	900	0
2/12/2025 19:14	24201	PROV_T3	13	8	-5	1.35	2.11	0.76	-1.34	-1.35	1	1	0	1200	1200	0
2/12/2025 19:14	40504	CRES_T1	0	0	0	0	0	0	-1.71	-1.66	0	0	0	0	0	0
2/12/2025 19:14	24204	PROV_T3	14	12	-2	0.56	0.61	0.05	0	0	0	0	0	0	0	0
2/12/2025 19:14	24205	PROV_T3	8	2	-6	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
2/12/2025 19:15	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/12/2025 19:15	22002	BOHE_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
2/12/2025 19:15	22003	BOHE_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/12/2025 19:16	60801	BUCK_T1	0	0	0	0	0	0	-0.18	-0.22	0	0	0	0	0	0
2/12/2025 19:17	67002	STHI_T2	5	8	3	0.1	0.14	0.04	0	0	0	0	0	0	0	0
2/12/2025 19:17	45502	DERR_T2	1	3	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/12/2025 19:17	44801	EDAN_T2	1	1	0	0.2	0.7	0.5	-0.82	-0.8	0	0	0	0	0	0
2/12/2025 19:17	45501	DERR_T2	2	3	1	0.85	0.4	-0.45	0.24	0.24	2	2	0	1800	1800	0
2/12/2025 19:17	67001	STHI_T2	5	33	28	0.24	0.13	-0.11	0	0	0	0	0	0	0	0
2/12/2025 19:17	10805	CHHI_T2	7	7	0	3.49	2.97	-0.52	-1.03	-1.09	1	1	0	600	600	0
2/12/2025 19:18	44502	HAMI_T2	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
2/12/2025 19:18	22602	KIMB_T1	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
2/12/2025 19:18	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/12/2025 19:18	60301	TWVA_T2	0	0	0	0	0	0	-3.21	-3.2	2	2	0	1800	1800	0
2/12/2025 19:19	47203	FAXO_T2	1	1	0	0.8	1.1	0.3	-1.02	-1.04	0	0	0	0	0	0
2/12/2025 19:19	24202	PROV_T4	2	18	16	0.1	0.13	0.03	-0.74	-0.74	1	1	0	1200	1200	0
2/12/2025 19:19	24206	PROV_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/12/2025 19:20	55503	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/12/2025 19:20	20603	GRWO_T2	13	23	10	0.32	0.22	-0.1	0	0	0	0	0	0	0	0
2/12/2025 19:20	20601	GRWO_T2	1	1	0	3.4	4.2	0.8	-0.01	0.02	0	0	0	0	0	0
2/12/2025 19:21	54502	ENOL_T2	0	0	0	0	0	0	-1.94	-1.93	1	1	0	600	600	0
2/12/2025 19:21	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/12/2025 19:21	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/12/2025 19:22	23401	HONE_T2	2	0	-2	0.1	0	-0.1	-0.1	-0.09	0	0	0	0	0	0
2/12/2025 19:22	60201	ATGL_T2	0	0	0	0	0	0	0.09	0.13	0	0	0	0	0	0
2/12/2025 19:23	40101	HUNT_T2	12	2	-10	0.48	0	-0.48	-1.42	-1.4	0	0	0	0	0	0
2/12/2025 19:23	45502	DERR_T2	1	3	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/12/2025 19:23	22602	KIMB_T1	0	0	0	0	0	0	0.23	0.18	0	0	0	0	0	0
2/12/2025 19:23	45501	DERR_T2	2	3	1	0.85	0.4	-0.45	0.24	0.2	2	2	0	1800	1800	0
2/12/2025 19:25	24204	PROV_T3	12	8	-4	0.61	0.86	0.25	0	0	0	0	0	0	0	0
2/12/2025 19:25	14603	SWHI_T1	0	0	0	0	0	0	-1.54	-1.54	2	2	0	1200	1200	0
2/12/2025 19:25	24201	PROV_T3	7	5	-2	2.4	3.3	0.9	-1.35	-1.34	1	1	0	1200	1200	0
2/12/2025 19:25	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/12/2025 19:25	60801	BUCK_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
2/12/2025 19:25	64202	KINZ_T1	1	0	-1	1.8	0	-1.8	0	0	0	0	0	0	0	0
2/12/2025 19:25	24205	PROV_T3	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/12/2025 19:25	64201	KINZ_T1	0	0	0	0	0	0	-0.9	-0.86	4	4	0	2100	2100	0
2/12/2025 19:25	64204	KINZ_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/12/2025 19:26	40603	PIGR_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/12/2025 19:26	46903	MNTG_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/12/2025 19:26	40601	PIGR_T1	9	21	12	0.17	0.19	0.02	0	0	0	0	0	0	0	0
2/12/2025 19:26	46901	MNTG_T2	0	0	0	0	0	0	-0.54	-0.47	1	1	0	1200	1200	0
2/12/2025 19:27	28403	HART_T2	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
2/12/2025 19:27	44801	EDAN_T2	1	1	0	0.2	0.7	0.5	-0.4	-0.42	0	0	0	0	0	0
2/12/2025 19:29	10801	CHHI_T1	1	0	-1	0.1	0	-0.1	-2.06	-2.05	3	3	0	2100	2100	0
2/12/2025 19:35	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/12/2025 20:38	47103	MARL_T2	117	158	41	0.51	0.51	0	-0.42	-0.46	0	0	0	0	0	0
2/12/2025 20:38	47102	MARL_T2	65	72	7	0.57	0.63	0.06	0	0	0	0	0	0	0	0
2/12/2025 21:20	57404	SPAN_T2	0	0	0	0	0	0	1.08	1.14	0	0	0	0	0	0
2/13/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.38	0.42	0	0	0	0	0	0
2/13/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
2/13/2025 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
2/13/2025 9:02	25402	LAHA_T2	4	8	4	1.35	0.58	-0.77	-0.67	-0.68	0	0	0	0	0	0
2/13/2025 9:26	24902	WHHA_T1	5	8	3	0.62	0.65	0.03	0.92	0.85	0	0	0	0	0	0
2/13/2025 9:34	56501	ROCK_T2	1	2	1	1.6	2.1	0.5	0	0	0	0	0	0	0	0
2/13/2025 9:34	56504	ROCK_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
2/13/2025 9:34	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 9:35	65603	QVIL_T2	0	0	0	0	0	0	0.87	0.81	0	0	0	0	0	0
2/13/2025 9:36	65601	QVIL_T2	0	0	0	0	0	0	-1.08	-1.02	1	1	0	900	900	0
2/13/2025 9:36	65603	QVIL_T2	0	0	0	0	0	0	0.4	0.45	0	0	0	0	0	0
2/13/2025 9:38	59101	WALK_T2	1	0	-1	0.9	0	-0.9	1.18	1.51	1	1	0	600	600	0
2/13/2025 9:38	60301	TWVA_T2	0	0	0	0	0	0	-3.07	-3.05	2	2	0	1800	1800	0
2/13/2025 9:43	45501	DERR_T2	0	3	3	0	0	0	0.3	0.25	2	2	0	1800	1800	0
2/13/2025 9:44	45501	DERR_T2	0	3	3	0	0	0	0.3	0.25	2	2	0	1800	1800	0
2/13/2025 9:45	46203	DANV_T2	105	98	-7	0.55	0.51	-0.04	-0.86	-0.79	0	0	0	0	0	0
2/13/2025 9:45	46206	DANV_T2	4	9	5	0.28	0.37	0.09	0	0	0	0	0	0	0	0
2/13/2025 9:46	46602	LACR_T1	0	0	0	0	0	0	-0.62	-0.67	0	0	0	0	0	0
2/13/2025 9:48	59101	WALK_T2	0	0	0	0	0	0	1.18	1.51	1	1	0	600	600	0
2/13/2025 9:49	20603	GRWO_T2	1	0	-1	0.1	0	-0.1	-0.54	-0.54	1	1	0	900	900	0
2/13/2025 9:49	20601	GRWO_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
2/13/2025 9:52	59301	MCAL_T1	2	2	0	0.8	0.9	0.1	-1.4	-1.32	1	1	0	600	600	0
2/13/2025 10:01	10805	CHHI_T2	1	1	0	7.5	7.4	-0.1	-1.33	-1.31	1	1	0	600	600	0
2/13/2025 10:02	25801	SUTR_T2	3	2	-1	5.73	8.8	3.07	0.01	0	0	0	0	0	0	0
2/13/2025 10:07	17802	GILB_T1	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
2/13/2025 10:11	29402	BELT_T1	5	6	1	1.68	7.4	5.72	0	0	0	0	0	0	0	0
2/13/2025 10:11	29401	BELT_T1	0	9	9	0	0.11	0.11	0	0	1	1	0	900	900	0
2/13/2025 10:14	53501	EVIL_T2	2	2	0	0.7	0.85	0.15	-1.13	-1.2	2	2	0	1200	1200	0
2/13/2025 10:14	53502	EVIL_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
2/13/2025 10:18	58202	NEWV_T1	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
2/13/2025 10:19	42902	MIDD_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
2/13/2025 10:20	58202	NEWV_T1	0	0	0	0	0	0	-0.09	-0.07	0	0	0	0	0	0
2/13/2025 10:20	24201	PROV_T3	3	4	1	6.07	5.9	-0.17	-0.11	-0.09	0	0	0	0	0	0
2/13/2025 10:20	24204	PROV_T3	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
2/13/2025 10:21	54503	ENOL_T2	0	0	0	0	0	0	-0.38	-0.39	1	1	0	600	600	0
2/13/2025 10:21	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
2/13/2025 10:21	54502	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
2/13/2025 10:23	54601	SUMM_T2	2	6	4	0.2	0.37	0.17	-1.72	-1.68	2	2	0	2100	2100	0
2/13/2025 10:24	60201	ATGL_T2	0	3	3	0	0.13	0.13	0.2	0.21	0	0	0	0	0	0
2/13/2025 10:24	67605	WARW_T1	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
2/13/2025 10:28	61802	EELI_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
2/13/2025 10:28	61801	EELI_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
2/13/2025 10:29	61802	EELI_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
2/13/2025 10:29	61801	EELI_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
2/13/2025 10:29	54502	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
2/13/2025 10:29	54504	ENOL_T2	0	0	0	0	0	0	-1.01	-0.99	1	1	0	600	600	0
2/13/2025 10:29	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
2/13/2025 10:30	54504	ENOL_T2	0	0	0	0	0	0	-1.01	-0.99	1	1	0	600	600	0
2/13/2025 10:30	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/13/2025 10:30	54505	ENOL_T2	1	1	0	0.9	0.8	-0.1	-1.2	-1.19	1	1	0	600	600	0
2/13/2025 10:31	54501	ENOL_T2	0	0	0	0	0	0	-0.52	0.14	1	0	-1	600	0	-600
2/13/2025 10:31	54505	ENOL_T2	1	1	0	0.9	0.8	-0.1	-1.2	-1.19	1	1	0	600	600	0
2/13/2025 10:31	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/13/2025 10:32	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/13/2025 10:32	54505	ENOL_T2	1	1	0	0.9	0.8	-0.1	-1.2	-1.19	1	1	0	600	600	0
2/13/2025 10:33	66303	MCGO_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
2/13/2025 10:33	66302	MCGO_T2	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
2/13/2025 10:35	65202	PRIN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/13/2025 10:35	65205	PRIN_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/13/2025 10:36	52502	PROG_T2	0	0	0	0	0	0	-0.9	-0.94	2	2	0	1800	1800	0
2/13/2025 10:37	52502	PROG_T2	0	0	0	0	0	0	-0.47	-0.45	1	1	0	900	900	0
2/13/2025 10:37	66302	MCGO_T2	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
2/13/2025 10:37	66303	MCGO_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
2/13/2025 10:38	52502	PROG_T2	0	0	0	0	0	0	-0.47	-0.45	1	1	0	900	900	0
2/13/2025 10:38	60301	TWVA_T2	0	0	0	0	0	0	-4.82	-4.85	2	2	0	2400	2400	0
2/13/2025 10:39	52502	PROG_T2	0	0	0	0	0	0	-0.47	-0.45	1	1	0	900	900	0
2/13/2025 10:40	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 10:40	59102	WALK_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
2/13/2025 10:43	24902	WHHA_T1	2	2	0	0.2	0.4	0.2	0.83	0.92	0	0	0	0	0	0
2/13/2025 10:45	46802	HEPB_T1	9	84	75	0.34	0.18	-0.16	-1.18	-1.29	0	0	0	0	0	0
2/13/2025 10:48	12006	HATF_T1	0	0	0	0	0	0	-0.31	-0.33	2	2	0	2400	2400	0
2/13/2025 10:49	55002	NEWP_T1	5	5	0	0.66	0.7	0.04	-0.19	-0.2	0	0	0	0	0	0
2/13/2025 10:49	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 10:49	40602	PIGR_T1	0	0	0	0	0	0	0.2	0.13	0	0	0	0	0	0
2/13/2025 10:51	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 10:52	40601	PIGR_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
2/13/2025 10:52	57201	ROSS_T1	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
2/13/2025 10:53	57205	ROSS_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
2/13/2025 10:53	57201	ROSS_T1	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
2/13/2025 10:54	43801	SWIL_T1	11	71	60	0.58	0.3	-0.28	0	0	0	0	0	0	0	0
2/13/2025 10:54	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 10:55	60803	BUCK_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
2/13/2025 10:55	60801	BUCK_T1	0	0	0	0	0	0	0.06	0.12	0	0	0	0	0	0
2/13/2025 10:58	15603	NSTR_T2	0	0	0	0	0	0	-0.44	-0.49	0	0	0	0	0	0
2/13/2025 11:01	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
2/13/2025 11:01	46501	LOHA_T1	0	0	0	0	0	0	-0.18	0.4	1	1	0	1200	1200	0
2/13/2025 11:01	46506	LOHA_T1	4	3	-1	2.75	4.1	1.35	0	0	0	0	0	0	0	0
2/13/2025 11:01	46504	LOHA_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/13/2025 11:03	22602	KIMB_T1	0	1	1	0	0.2	0.2	0.14	0.14	0	0	0	0	0	0
2/13/2025 11:03	46504	LOHA_T1	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/13/2025 11:03	46506	LOHA_T1	4	3	-1	2.75	4.1	1.35	0	0	0	0	0	0	0	0
2/13/2025 11:03	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
2/13/2025 11:04	41205	KENM_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
2/13/2025 11:04	41202	KENM_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/13/2025 11:05	67103	SPRI_T1	0	0	0	0	0	0	-0.04	-0.08	0	0	0	0	0	0
2/13/2025 11:06	67103	SPRI_T1	0	0	0	0	0	0	-0.15	-0.03	0	0	0	0	0	0
2/13/2025 11:07	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.01	0	0	0	0	0	0
2/13/2025 11:08	67103	SPRI_T1	0	0	0	0	0	0	-0.08	-0.02	0	0	0	0	0	0
2/13/2025 11:10	10105	ALLE_T3	7	6	-1	0.31	0.4	0.09	0	0	0	0	0	0	0	0
2/13/2025 11:10	10101	ALLE_T3	38	18	-20	0.62	1.12	0.5	0	0	0	0	0	0	0	0
2/13/2025 11:10	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 11:10	10109	ALLE_T3	4	2	-2	0.53	0	-0.53	0	0	0	0	0	0	0	0
2/13/2025 11:10	54601	SUMM_T2	5	10	5	0.4	0.48	0.08	-1.72	-1.73	2	2	0	2100	2100	0
2/13/2025 11:12	16302	ALPA_T2	0	0	0	0	0	0	-1.11	-1.27	0	0	0	0	0	0
2/13/2025 11:14	40101	HUNT_T2	20	15	-5	0.41	0.16	-0.25	-0.56	-0.46	0	0	0	0	0	0
2/13/2025 11:14	65702	RVIL_T2	0	0	0	0	0	0	-1.43	-1.51	0	0	0	0	0	0
2/13/2025 11:14	16302	ALPA_T2	0	0	0	0	0	0	-1.67	-1.9	0	0	0	0	0	0
2/13/2025 11:16	53601	DALM_T2	1	1	0	0.5	1	0.5	-0.25	-0.27	1	1	0	600	600	0
2/13/2025 11:16	65702	RVIL_T2	0	0	0	0	0	0	-1.43	-1.51	0	0	0	0	0	0
2/13/2025 11:21	46502	LOHA_T1	0	0	0	0	0	0	-1.32	-1.34	1	1	0	1200	1200	0
2/13/2025 11:21	46504	LOHA_T1	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
2/13/2025 11:21	46506	LOHA_T1	3	3	0	4.1	3.77	-0.33	0	0	0	0	0	0	0	0
2/13/2025 11:22	57106	SPHI_T2	3	3	0	1.37	1.87	0.5	0	0	0	0	0	0	0	0
2/13/2025 11:22	57101	SPHI_T2	6	6	0	1.42	1.37	-0.05	0	0	0	0	0	0	0	0
2/13/2025 11:22	57104	SPHI_T2	3	3	0	0.57	0.67	0.1	-1.82	-1.86	1	1	0	900	900	0
2/13/2025 11:23	57101	SPHI_T2	6	6	0	1.42	1.37	-0.05	0	0	0	0	0	0	0	0
2/13/2025 11:23	57106	SPHI_T2	3	3	0	1.37	1.87	0.5	0	0	0	0	0	0	0	0
2/13/2025 11:23	57104	SPHI_T2	3	3	0	0.57	0.67	0.1	0	0	0	0	0	0	0	0
2/13/2025 11:24	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 11:24	57101	SPHI_T2	6	6	0	1.42	1.37	-0.05	0	0	0	0	0	0	0	0
2/13/2025 11:24	57104	SPHI_T2	3	3	0	0.57	0.67	0.1	-5.46	-5.58	3	3	0	2700	2700	0
2/13/2025 11:24	57106	SPHI_T2	3	3	0	1.37	1.87	0.5	0	0	0	0	0	0	0	0
2/13/2025 11:25	57101	SPHI_T2	6	6	0	1.42	1.37	-0.05	0	0	0	0	0	0	0	0
2/13/2025 11:25	57104	SPHI_T2	3	3	0	0.57	0.67	0.1	-7.28	-7.45	4	4	0	3600	3600	0
2/13/2025 11:25	57106	SPHI_T2	3	3	0	1.37	1.87	0.5	0	0	0	0	0	0	0	0
2/13/2025 11:26	57103	SPHI_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
2/13/2025 11:26	57106	SPHI_T2	3	3	0	1.37	1.87	0.5	0	0	0	0	0	0	0	0
2/13/2025 11:26	57002	WHHI_T2	0	0	0	0	0	0	-1.14	-1.18	1	1	0	1200	1200	0
2/13/2025 11:26	57104	SPHI_T2	3	3	0	0.57	0.67	0.1	-3.64	-3.72	2	2	0	1800	1800	0
2/13/2025 11:26	57101	SPHI_T2	6	6	0	1.42	1.37	-0.05	0	0	0	0	0	0	0	0
2/13/2025 11:26	14801	TREI_T2	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
2/13/2025 11:27	57002	WHHI_T2	0	0	0	0	0	0	-1.14	-1.18	1	1	0	1200	1200	0
2/13/2025 11:28	42501	ALTA_T2	0	0	0	0	0	0	-0.01	0	1	1	0	600	600	0
2/13/2025 11:29	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-0.99	1	1	0	600	600	0
2/13/2025 11:29	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
2/13/2025 11:29	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
2/13/2025 11:29	22602	KIMB_T1	0	1	1	0	0.2	0.2	0.14	0.14	0	0	0	0	0	0
2/13/2025 11:30	20603	GRWO_T2	4	18	14	0.13	0.26	0.13	-0.58	-0.59	1	1	0	900	900	0
2/13/2025 11:30	47203	FAXO_T2	0	0	0	0	0	0	-0.37	-0.39	0	0	0	0	0	0
2/13/2025 11:30	20601	GRWO_T2	4	2	-2	0.38	0.85	0.47	0	0	0	0	0	0	0	0
2/13/2025 11:33	54701	NEBL_T1	8	8	0	0.58	0.64	0.06	0	0	0	0	0	0	0	0
2/13/2025 11:34	66303	MCGO_T2	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
2/13/2025 11:34	66302	MCGO_T2	0	0	0	0	0	0	-0.56	-0.63	0	0	0	0	0	0
2/13/2025 11:36	54001	SDLE_T1	10	38	28	0.92	0.45	-0.47	0	0	0	0	0	0	0	0
2/13/2025 11:37	55002	NEWP_T1	3	4	1	0.43	0.45	0.02	-0.23	-0.22	0	0	0	0	0	0
2/13/2025 11:38	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.91	1	1	0	900	900	0
2/13/2025 11:38	54001	SDLE_T1	10	38	28	0.92	0.45	-0.47	0	0	0	0	0	0	0	0
2/13/2025 11:38	65802	RTWN_T2	0	0	0	0	0	0	-0.2	-0.23	0	0	0	0	0	0
2/13/2025 11:39	54001	SDLE_T1	10	38	28	0.92	0.45	-0.47	0	0	0	0	0	0	0	0
2/13/2025 11:41	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.91	1	1	0	900	900	0
2/13/2025 11:42	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.91	1	1	0	900	900	0
2/13/2025 11:44	43402	BENT_T1	0	0	0	0	0	0	-1.84	-1.82	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/13/2025 11:45	56501	ROCK_T2	2	2	0	0.9	1.05	0.15	0	0	0	0	0	0	0	0
2/13/2025 11:45	56504	ROCK_T2	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
2/13/2025 11:46	12006	HATF_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 11:46	12002	HATF_T1	0	0	0	0	0	0	-0.57	-0.58	1	1	0	1200	1200	0
2/13/2025 11:48	65502	MOJO_T2	0	0	0	0	0	0	-2	-1.62	2	2	0	1800	1800	0
2/13/2025 11:50	10401	LIGA_T1	84	116	32	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
2/13/2025 11:51	57201	ROSS_T1	0	39	39	0	0.23	0.23	-0.71	-0.79	0	0	0	0	0	0
2/13/2025 11:51	65503	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 11:51	57205	ROSS_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
2/13/2025 11:51	58401	MORO_T1	0	1	1	0	0	0	-0.95	-0.9	1	1	0	600	600	0
2/13/2025 11:52	67402	WAKE_T2	1	1	0	0.2	0.3	0.1	0.6	0.54	1	1	0	600	600	0
2/13/2025 11:53	58401	MORO_T1	0	1	1	0	0	0	-0.9	-0.95	1	1	0	600	600	0
2/13/2025 11:55	58401	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 11:55	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
2/13/2025 11:55	58402	MORO_T1	0	0	0	0	0	0	0.09	0.02	2	2	0	1500	1500	0
2/13/2025 11:58	57205	ROSS_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
2/13/2025 11:58	57201	ROSS_T1	0	39	39	0	0.23	0.23	-0.79	-0.86	0	0	0	0	0	0
2/13/2025 11:59	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 12:04	65503	MOJO_T2	0	0	0	0	0	0	-0.8	-0.88	1	1	0	900	900	0
2/13/2025 12:05	67201	TEHI_T1	0	0	0	0	0	0	0.66	0.53	1	1	0	900	900	0
2/13/2025 12:05	57205	ROSS_T1	0	2	2	0	0.65	0.65	0.26	0.23	0	0	0	0	0	0
2/13/2025 12:05	57201	ROSS_T1	0	46	46	0	0.25	0.25	0	0	0	0	0	0	0	0
2/13/2025 12:05	47401	PENS_T1	0	0	0	0	0	0	0.92	0.87	0	0	0	0	0	0
2/13/2025 12:07	57205	ROSS_T1	0	2	2	0	0.65	0.65	0.23	0.25	0	0	0	0	0	0
2/13/2025 12:07	57201	ROSS_T1	0	46	46	0	0.25	0.25	0	0	0	0	0	0	0	0
2/13/2025 12:08	46002	BERW_T2	0	0	0	0	0	0	-0.68	-0.69	1	1	0	900	900	0
2/13/2025 12:08	65604	QVIL_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
2/13/2025 12:08	65601	QVIL_T2	58	3	-55	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
2/13/2025 12:08	46003	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 12:08	65602	QVIL_T2	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
2/13/2025 12:08	46004	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/13/2025 12:08	64101	REFR_T1	0	5	5	0	0.34	0.34	-0.03	-0.03	0	0	0	0	0	0
2/13/2025 12:08	65603	QVIL_T2	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
2/13/2025 12:09	57205	ROSS_T1	0	2	2	0	0.65	0.65	0.23	0.25	0	0	0	0	0	0
2/13/2025 12:09	57201	ROSS_T1	0	46	46	0	0.25	0.25	0	0	0	0	0	0	0	0
2/13/2025 12:11	29402	BELT_T1	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
2/13/2025 12:11	29401	BELT_T1	39	38	-1	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
2/13/2025 12:12	24105	EHAZ_T1	4	4	0	6.8	6	-0.8	0	0	0	0	0	0	0	0
2/13/2025 12:12	60803	BUCK_T1	7	17	10	0.24	0.36	0.12	0	0	0	0	0	0	0	0
2/13/2025 12:12	60801	BUCK_T1	0	19	19	0	0.26	0.26	-0.16	-0.15	0	0	0	0	0	0
2/13/2025 12:12	24103	EHAZ_T1	1	4	3	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/13/2025 12:12	24101	EHAZ_T1	56	57	1	1.14	0.74	-0.4	0	0	0	0	0	0	0	0
2/13/2025 12:12	24102	EHAZ_T1	14	17	3	0.94	0.71	-0.23	0.34	0.29	0	0	0	0	0	0
2/13/2025 12:13	58803	COCO_T1	1	1	0	2.7	2.7	0	-0.16	-0.12	0	0	0	0	0	0
2/13/2025 12:14	61701	ELIZ_T1	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
2/13/2025 12:14	61703	ELIZ_T1	0	1	1	0	0.1	0.1	-0.82	-0.84	1	1	0	900	900	0
2/13/2025 12:14	54504	ENOL_T2	0	0	0	0	0	0	-0.99	-0.99	1	1	0	600	600	0
2/13/2025 12:14	11904	ETEX_T2	0	0	0	0	0	0	-1.49	-1.49	0	0	0	0	0	0
2/13/2025 12:14	54505	ENOL_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
2/13/2025 12:14	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/13/2025 12:15	54504	ENOL_T2	0	0	0	0	0	0	-0.99	-0.99	1	1	0	600	600	0
2/13/2025 12:15	54505	ENOL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
2/13/2025 12:15	54502	ENOL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/13/2025 12:15	23401	HONE_T2	5	2	-3	0.44	0.25	-0.19	0.18	0.17	0	0	0	0	0	0
2/13/2025 12:16	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 12:17	54502	ENOL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/13/2025 12:17	61701	ELIZ_T1	1	1	0	6.1	6.2	0.1	0.02	0.2	0	0	0	0	0	0
2/13/2025 12:17	61703	ELIZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/13/2025 12:17	54504	ENOL_T2	0	0	0	0	0	0	-0.99	-0.99	1	1	0	600	600	0
2/13/2025 12:17	54505	ENOL_T2	1	1	0	0.4	0.7	0.3	-2.5	-2.44	2	2	0	1200	1200	0
2/13/2025 12:20	57203	ROSS_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
2/13/2025 12:20	57205	ROSS_T1	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
2/13/2025 12:20	57201	ROSS_T1	39	79	40	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
2/13/2025 12:21	57201	ROSS_T1	39	79	40	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
2/13/2025 12:21	58703	ROSE_T2	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
2/13/2025 12:21	57205	ROSS_T1	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
2/13/2025 12:21	58705	ROSE_T2	5	5	0	2.64	3.16	0.52	0	0	0	0	0	0	0	0
2/13/2025 12:22	57402	SPAN_T2	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
2/13/2025 12:23	67703	WERN_T2	0	0	0	0	0	0	-0.88	-0.17	1	1	0	900	900	0
2/13/2025 12:23	58706	ROSE_T2	0	0	0	0	0	0	-0.2	-0.21	1	1	0	600	600	0
2/13/2025 12:23	58701	ROSE_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
2/13/2025 12:23	58705	ROSE_T2	5	5	0	2.64	3.16	0.52	0	0	0	0	0	0	0	0
2/13/2025 12:25	57201	ROSS_T1	39	79	40	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
2/13/2025 12:25	67402	WAKE_T2	1	1	0	0.3	0.3	0	1.09	1.09	2	2	0	1200	1200	0
2/13/2025 12:25	57203	ROSS_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
2/13/2025 12:25	57205	ROSS_T1	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
2/13/2025 12:26	60801	BUCK_T1	18	33	15	0.25	0.26	0.01	-0.15	-0.17	0	0	0	0	0	0
2/13/2025 12:26	60803	BUCK_T1	14	17	3	0.39	0.47	0.08	0	0	0	0	0	0	0	0
2/13/2025 12:27	57201	ROSS_T1	39	79	40	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
2/13/2025 12:27	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 12:27	57203	ROSS_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
2/13/2025 12:27	57205	ROSS_T1	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
2/13/2025 12:27	61305	EARL_T1	0	0	0	0	0	0	0.8	0.7	1	1	0	900	900	0
2/13/2025 12:28	60801	BUCK_T1	18	33	15	0.25	0.26	0.01	-0.15	-0.17	0	0	0	0	0	0
2/13/2025 12:28	10801	OHHI_T1	0	0	0	0	0	0	-1.42	-1.37	2	2	0	1500	1500	0
2/13/2025 12:28	60803	BUCK_T1	14	17	3	0.39	0.47	0.08	0	0	0	0	0	0	0	0
2/13/2025 12:31	61304	EARL_T1	0	0	0	0	0	0	-0.86	-0.7	1	1	0	600	600	0
2/13/2025 12:36	15101	UPHA_T1	0	0	0	0	0	0	0.01	0.07	0	0	0	0	0	0
2/13/2025 12:37	67605	WARW_T1	0	14	14	0	0.26	0.26	0	0	0	0	0	0	0	0
2/13/2025 12:38	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 12:38	67605	WARW_T1	0	14	14	0	0.26	0.26	0	0	0	0	0	0	0	0
2/13/2025 12:42	22003	BOHE_T1	13	17	4	0.26	0.27	0.01	0	0	0	0	0	0	0	0
2/13/2025 12:42	22001	BOHE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/13/2025 12:42	22002	BOHE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/13/2025 12:44	22002	BOHE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/13/2025 12:44	22003	BOHE_T1	13	17	4	0.26	0.27	0.01	0	0	0	0	0	0	0	0
2/13/2025 12:44	22001	BOHE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/13/2025 12:45	63602	LETO_T1	4	0	-4	0.13	0	-0.13	-0.38	-0.49	0	0	0	0	0	0
2/13/2025 12:45	63601	LETO_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
2/13/2025 12:47	63601	LETO_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
2/13/2025 12:47	63602	LETO_T1	4	0	-4	0.13	0	-0.13	-0.38	-0.49	0	0	0	0	0	0
2/13/2025 12:50	65601	QVIL_T2	5	301	296	0.18	0.39	0.21	0	0	0	0	0	0	0	0
2/13/2025 12:50	65604	QVIL_T2	2	6	4	0.15	0.62	0.47	0	0	0	0	0	0	0	0
2/13/2025 12:50	65602	QVIL_T2	1	34	33	0.1	0.38	0.28	0	0	0	0	0	0	0	0
2/13/2025 12:50	65603	QVIL_T2	0	342	342	0	0.24	0.24	0.44	0.42	0	0	0	0	0	0
2/13/2025 12:50	64904	MILL_T1	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
2/13/2025 12:50	55002	NEWP_T1	4	6	2	0.55	0.68	0.13	-0.22	-0.22	0	0	0	0	0	0
2/13/2025 12:51	58202	NEWV_T1	2	0	-2	0.15	0	-0.15	-0.2	-0.12	0	0	0	0	0	0
2/13/2025 12:53	63601	LETO_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
2/13/2025 12:53	63602	LETO_T1	4	0	-4	0.13	0	-0.13	-0.49	-0.42	0	0	0	0	0	0
2/13/2025 12:55	54601	SUMM_T2	9	10	1	0.28	0.73	0.45	0	0	0	0	0	0	0	0
2/13/2025 12:55	54603	SUMM_T2	0	1	1	0	0.1	0.1	-0.33	-0.31	1	1	0	900	900	0
2/13/2025 12:57	54603	SUMM_T2	0	1	1	0	0.1	0.1	-0.33	-0.31	1	1	0	900	900	0
2/13/2025 12:57	54601	SUMM_T2	9	10	1	0.28	0.73	0.45	0	0	0	0	0	0	0	0
2/13/2025 12:58	63501	HEID_TBK1-2	4	2	-2	0.33	0.75	0.42	-0.03	-0.06	1	1	0	900	900	0
2/13/2025 12:59	63501	HEID_TBK1-2	4	2	-2	0.33	0.75	0.42	-0.03	-0.06	1	1	0	900	900	0
2/13/2025 12:59	61803	EELI_T2	0	0	0	0	0	0	0.95	0.94	0	0	0	0	0	0
2/13/2025 12:59	61801	EELI_T2	2	2	0	0.6	0.65	0.05	-0.72	-0.68	0	0	0	0	0	0
2/13/2025 13:00	63501	HEID_TBK1-2	2	1	-1	0.5	1.4	0.9	-0.03	-0.06	1	1	0	900	900	0
2/13/2025 13:01	63501	HEID_TBK1-2	2	1	-1	0.5	1.4	0.9	-0.03	-0.06	1	1	0	900	900	0
2/13/2025 13:02	61801	EELI_T2	2	2	0	0.65	0.75	0.1	-0.36	-0.34	0	0	0	0	0	0
2/13/2025 13:03	63602	LETO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 13:05	64801	MONE_T2	52	138	86	0.19	0.39	0.2	0.02	-0.03	0	0	0	0	0	0
2/13/2025 13:05	64802	MONE_T2	63	109	46	0.29	0.36	0.07	0	0	0	0	0	0	0	0
2/13/2025 13:06	57205	ROSS_T1	3	6	3	0.37	0.67	0.3	0	0	0	0	0	0	0	0
2/13/2025 13:06	55002	NEWP_T1	5	6	1	0.38	0.68	0.3	-0.22	-0.25	0	0	0	0	0	0
2/13/2025 13:06	64802	MONE_T2	63	109	46	0.29	0.36	0.07	0.31	0.16	0	0	0	0	0	0
2/13/2025 13:06	57203	ROSS_T1	3	3	0	0.1	0.33	0.23	0.48	0.48	0	0	0	0	0	0
2/13/2025 13:06	64801	MONE_T2	52	138	86	0.19	0.39	0.2	0	0	0	0	0	0	0	0
2/13/2025 13:06	57201	ROSS_T1	87	77	-10	0.26	0.28	0.02	0	0	0	0	0	0	0	0
2/13/2025 13:07	64802	MONE_T2	63	109	46	0.29	0.36	0.07	0.31	0.16	0	0	0	0	0	0
2/13/2025 13:07	64801	MONE_T2	52	138	86	0.19	0.39	0.2	0	0	0	0	0	0	0	0
2/13/2025 13:07	57203	ROSS_T1	3	3	0	0.1	0.33	0.23	0.48	0.46	0	0	0	0	0	0
2/13/2025 13:07	57205	ROSS_T1	3	6	3	0.37	0.67	0.3	0	0	0	0	0	0	0	0
2/13/2025 13:07	57201	ROSS_T1	87	77	-10	0.26	0.28	0.02	0	0	0	0	0	0	0	0
2/13/2025 13:08	60201	ATGL_T2	32	5	-27	0.22	0.4	0.18	1.11	1.12	0	0	0	0	0	0
2/13/2025 13:10	58402	MORO_T1	3	2	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/13/2025 13:10	58401	MORO_T1	0	4	4	0	0.23	0.23	-1.9	-1.82	2	2	0	1200	1200	0
2/13/2025 13:12	67502	WEWI_T2	3	2	-1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
2/13/2025 13:12	58402	MORO_T1	3	2	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/13/2025 13:12	58401	MORO_T1	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
2/13/2025 13:12	60201	ATGL_T2	32	5	-27	0.22	0.4	0.18	0	0	0	0	0	0	0	0
2/13/2025 13:13	62105	ELAN_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
2/13/2025 13:13	62106	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/13/2025 13:14	11301	EMMA_T1	0	0	0	0	0	0	-0.77	-0.79	0	0	0	0	0	0
2/13/2025 13:16	46801	HEPB_T2	12	20	8	0.31	0.23	-0.08	0	0	0	0	0	0	0	0
2/13/2025 13:16	46803	HEPB_T2	4	6	2	0.15	0.3	0.15	0.5	0.53	0	0	0	0	0	0
2/13/2025 13:16	62105	ELAN_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
2/13/2025 13:17	46801	HEPB_T2	12	20	8	0.31	0.23	-0.08	0.57	0.52	0	0	0	0	0	0
2/13/2025 13:17	46803	HEPB_T2	4	6	2	0.15	0.3	0.15	0	0	0	0	0	0	0	0
2/13/2025 13:19	50504	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/13/2025 13:19	50501	MECH_T1	4	4	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
2/13/2025 13:19	50502	MECH_T1	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
2/13/2025 13:19	50506	MECH_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/13/2025 13:20	55002	NEWP_T1	6	5	-1	0.68	0.42	-0.26	-0.25	-0.24	0	0	0	0	0	0
2/13/2025 13:20	65503	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 13:20	52504	PROG_T1	10	28	18	0.11	0.14	0.03	0	0	0	0	0	0	0	0
2/13/2025 13:20	52501	PROG_T1	20	55	35	0.12	0.14	0.02	0	0	0	0	0	0	0	0
2/13/2025 13:20	52502	PROG_T2	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
2/13/2025 13:21	55002	NEWP_T1	6	5	-1	0.68	0.42	-0.26	-0.25	-0.24	0	0	0	0	0	0
2/13/2025 13:21	58401	MORO_T1	2	3	1	0.15	0.27	0.12	-1.9	-1.82	2	2	0	1200	1200	0
2/13/2025 13:21	58402	MORO_T1	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
2/13/2025 13:21	52501	PROG_T1	20	55	35	0.12	0.14	0.02	1.07	1.09	2	2	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/13/2025 13:21	52504	PROG_T1	10	28	18	0.11	0.14	0.03	0	0	0	0	0	0	0	0
2/13/2025 13:22	58402	MORO_T1	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
2/13/2025 13:22	57203	ROSS_T1	1	3	2	0.2	0.33	0.13	0.46	0.44	0	0	0	0	0	0
2/13/2025 13:22	55002	NEWP_T1	6	5	-1	0.68	0.42	-0.26	-0.48	-0.52	0	0	0	0	0	0
2/13/2025 13:22	41002	LAUR_T2	23	30	7	0.29	0.26	-0.03	-0.96	-0.99	0	0	0	0	0	0
2/13/2025 13:22	52501	PROG_T1	20	55	35	0.12	0.14	0.02	1.09	1.64	2	0	-2	600	0	-600
2/13/2025 13:22	41001	LAUR_T2	71	72	1	0.33	0.42	0.09	0	0	0	0	0	0	0	0
2/13/2025 13:22	57201	ROSS_T1	29	78	49	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
2/13/2025 13:22	58401	MORO_T1	2	3	1	0.15	0.27	0.12	-0.91	-0.95	1	1	0	600	600	0
2/13/2025 13:22	52504	PROG_T1	10	28	18	0.11	0.14	0.03	0	0	0	0	0	0	0	0
2/13/2025 13:22	57205	ROSS_T1	2	8	6	0.6	0.64	0.04	0	0	0	0	0	0	0	0
2/13/2025 13:23	57205	ROSS_T1	2	8	6	0.6	0.64	0.04	0	0	0	0	0	0	0	0
2/13/2025 13:23	57203	ROSS_T1	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
2/13/2025 13:23	57201	ROSS_T1	29	78	49	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
2/13/2025 13:23	58402	MORO_T1	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
2/13/2025 13:23	58401	MORO_T1	2	3	1	0.15	0.27	0.12	-0.91	-0.95	1	1	0	600	600	0
2/13/2025 13:24	52504	PROG_T1	10	28	18	0.11	0.14	0.03	0	0	0	0	0	0	0	0
2/13/2025 13:24	52501	PROG_T1	20	55	35	0.12	0.14	0.02	0	0	0	0	0	0	0	0
2/13/2025 13:25	52504	PROG_T1	10	28	18	0.11	0.14	0.03	0	0	0	0	0	0	0	0
2/13/2025 13:25	57201	ROSS_T1	29	78	49	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
2/13/2025 13:25	57203	ROSS_T1	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
2/13/2025 13:25	51003	NHAR_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
2/13/2025 13:25	51006	NHAR_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/13/2025 13:25	51004	NHAR_T1	8	5	-3	1.41	2.38	0.97	0	0	0	0	0	0	0	0
2/13/2025 13:25	51002	NHAR_T1	22	6	-16	0.24	0.4	0.16	0	0	0	0	0	0	0	0
2/13/2025 13:25	52501	PROG_T1	20	55	35	0.12	0.14	0.02	0.55	0.82	1	0	-1	300	0	-300
2/13/2025 13:25	57205	ROSS_T1	2	8	6	0.6	0.64	0.04	0	0	0	0	0	0	0	0
2/13/2025 13:27	61703	ELIZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/13/2025 13:27	61701	ELIZ_T1	1	1	0	5.8	6.3	0.5	0	0	0	0	0	0	0	0
2/13/2025 13:28	10801	CHHI_T1	0	0	0	0	0	0	-1.38	-1.43	2	2	0	1500	1500	0
2/13/2025 13:31	57403	SPAN_T1	32	29	-3	0.4	0.29	-0.11	0.15	0.14	0	0	0	0	0	0
2/13/2025 13:31	57401	SPAN_T1	3	4	1	1.03	0.9	-0.13	-0.65	-0.7	0	0	0	0	0	0
2/13/2025 13:32	61801	EELI_T2	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
2/13/2025 13:32	57403	SPAN_T1	32	29	-3	0.4	0.29	-0.11	0	0	0	0	0	0	0	0
2/13/2025 13:32	64204	KINZ_T1	35	8	-27	0.39	0.29	-0.1	0	0	0	0	0	0	0	0
2/13/2025 13:32	57401	SPAN_T1	3	4	1	1.03	0.9	-0.13	-0.32	-0.35	0	0	0	0	0	0
2/13/2025 13:32	63501	HEID_TBK1-2	1	1	0	1.4	1.3	-0.1	-0.01	0.12	1	1	0	900	900	0
2/13/2025 13:32	64202	KINZ_T1	3	0	-3	0.43	0	-0.43	0.69	0.85	0	0	0	0	0	0
2/13/2025 13:33	65503	MOJO_T2	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
2/13/2025 13:33	57401	SPAN_T1	3	4	1	1.03	0.9	-0.13	-1.3	-1.4	0	0	0	0	0	0
2/13/2025 13:33	61801	EELI_T2	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
2/13/2025 13:33	61802	EELI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 13:33	57403	SPAN_T1	32	29	-3	0.4	0.29	-0.11	0	0	0	0	0	0	0	0
2/13/2025 13:34	57403	SPAN_T1	32	29	-3	0.4	0.29	-0.11	0.45	0.43	0	0	0	0	0	0
2/13/2025 13:34	57401	SPAN_T1	3	4	1	1.03	0.9	-0.13	-0.65	-0.7	0	0	0	0	0	0
2/13/2025 13:35	57401	SPAN_T1	3	4	1	1.03	0.9	-0.13	0	0	0	0	0	0	0	0
2/13/2025 13:35	63602	LETO_T1	0	0	0	0	0	0	-0.53	-0.35	0	0	0	0	0	0
2/13/2025 13:35	57403	SPAN_T1	32	29	-3	0.4	0.29	-0.11	0	0	0	0	0	0	0	0
2/13/2025 13:37	58401	MORO_T1	3	1	-2	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
2/13/2025 13:37	54603	SUMM_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
2/13/2025 13:37	54601	SUMM_T2	11	13	2	0.79	0.52	-0.27	-3.62	-3.72	4	4	0	4200	4200	0
2/13/2025 13:37	58402	MORO_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/13/2025 13:38	64801	MONE_T2	108	78	-30	0.21	0.24	0.03	0	0	0	0	0	0	0	0
2/13/2025 13:38	64802	MONE_T2	28	58	30	0.15	0.22	0.07	0.18	0.2	0	0	0	0	0	0
2/13/2025 13:38	58401	MORO_T1	3	1	-2	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
2/13/2025 13:38	58402	MORO_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/13/2025 13:39	57601	RUTH_T2	0	0	0	0	0	0	-0.49	-0.46	0	0	0	0	0	0
2/13/2025 13:43	61703	ELIZ_T1	1	1	0	0.1	0.1	0	-1.07	-0.86	1	1	0	900	900	0
2/13/2025 13:43	61701	ELIZ_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
2/13/2025 13:44	61701	ELIZ_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
2/13/2025 13:44	61703	ELIZ_T1	1	1	0	0.1	0.1	0	-2.14	-1.72	2	2	0	1800	1800	0
2/13/2025 13:46	54505	ENOL_T2	2	1	-1	1.05	1.2	0.15	-1.31	-1.34	1	1	0	600	600	0
2/13/2025 13:46	61701	ELIZ_T1	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
2/13/2025 13:46	61802	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 13:46	54502	ENOL_T2	6	2	-4	0.37	0.6	0.23	0	0	0	0	0	0	0	0
2/13/2025 13:46	61703	ELIZ_T1	1	1	0	0.1	0.1	0	-2.14	-1.72	2	2	0	1800	1800	0
2/13/2025 13:46	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/13/2025 13:46	47203	FAXO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/13/2025 13:46	47202	FAXO_T2	0	0	0	0	0	0	-0.99	-0.97	0	0	0	0	0	0
2/13/2025 13:46	61801	EELI_T2	2	2	0	0.75	0.5	-0.25	-0.34	-0.33	0	0	0	0	0	0
2/13/2025 13:48	54505	ENOL_T2	2	1	-1	1.05	1.2	0.15	-1.31	-1.34	1	1	0	600	600	0
2/13/2025 13:48	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/13/2025 13:48	54502	ENOL_T2	6	2	-4	0.37	0.6	0.23	0	0	0	0	0	0	0	0
2/13/2025 13:50	65205	PRIN_T1	1	2	1	0.6	1.1	0.5	0	0	0	0	0	0	0	0
2/13/2025 13:51	65206	PRIN_T4	1	1	0	6.2	8.3	2.1	0	0	0	0	0	0	0	0
2/13/2025 13:51	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 13:51	65207	PRIN_T4	3	4	1	1.63	1.5	-0.13	0	0	0	0	0	0	0	0
2/13/2025 13:52	47403	PENS_T1	1	4	3	1.9	0.2	-1.7	0	0	0	0	0	0	0	0
2/13/2025 13:52	47401	PENS_T1	0	4	4	0	0.8	0.8	0	0	0	0	0	0	0	0
2/13/2025 13:58	54505	ENOL_T2	2	1	-1	1.05	1.2	0.15	0	0	0	0	0	0	0	0
2/13/2025 13:58	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/13/2025 13:58	54502	ENOL_T2	6	2	-4	0.37	0.6	0.23	-2.07	-2.07	1	1	0	600	600	0
2/13/2025 13:59	54505	ENOL_T2	2	1	-1	1.05	1.2	0.15	0	0	0	0	0	0	0	0
2/13/2025 13:59	20601	GRWO_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 13:59	54502	ENOL_T2	6	2	-4	0.37	0.6	0.23	-2.07	-2.07	1	1	0	600	600	0
2/13/2025 13:59	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/13/2025 13:59	20603	GRWO_T2	0	0	0	0	0	0	0.46	0.4	0	0	0	0	0	0
2/13/2025 14:00	54501	ENOL_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
2/13/2025 14:00	54502	ENOL_T2	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/13/2025 14:00	54506	ENOL_T2	0	0	0	0	0	0	0.33	0.36	0	1	1	0	600	600
2/13/2025 14:00	54505	ENOL_T2	1	2	1	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
2/13/2025 14:03	57403	SPAN_T1	25	50	25	0.3	0.32	0.02	0	0	0	0	0	0	0	0
2/13/2025 14:03	57401	SPAN_T1	3	3	0	0.8	0.93	0.13	-0.35	-0.4	0	0	0	0	0	0
2/13/2025 14:04	57403	SPAN_T1	25	50	25	0.3	0.32	0.02	0	0	0	0	0	0	0	0
2/13/2025 14:04	57401	SPAN_T1	3	3	0	0.8	0.93	0.13	-0.71	-0.8	0	0	0	0	0	0
2/13/2025 14:05	57402	SPAN_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
2/13/2025 14:05	57401	SPAN_T1	3	3	0	0.8	0.93	0.13	-0.35	-0.4	0	0	0	0	0	0
2/13/2025 14:05	57403	SPAN_T1	25	50	25	0.3	0.32	0.02	0	0	0	0	0	0	0	0
2/13/2025 14:06	54701	NEBL_T1	8	8	0	0.95	1.04	0.09	0	0	0	0	0	0	0	0
2/13/2025 14:08	17102	WTRE_T2	0	2	2	0	0.1	0.1	-0.41	-0.25	2	2	0	2400	2400	0
2/13/2025 14:08	17101	WTRE_T2	2	2	0	8.2	8.05	-0.15	0	0	0	0	0	0	0	0
2/13/2025 14:10	59101	WALK_T2	0	0	0	0	0	0	1.97	2.06	0	0	0	0	0	0
2/13/2025 14:12	42701	AUGU_T1	1	1	0	1	1.1	0.1	0	0	4	4	0	3600	3600	0
2/13/2025 14:12	17101	WTRE_T2	2	2	0	8.2	8.05	-0.15	0	0	0	0	0	0	0	0
2/13/2025 14:12	17102	WTRE_T2	0	2	2	0	0.1	0.1	-0.41	-0.25	2	2	0	2400	2400	0
2/13/2025 14:12	61304	EARL_T1	0	0	0	0	0	0	-0.8	-0.81	1	1	0	600	600	0
2/13/2025 14:13	62105	ELAN_T1	0	0	0	0	0	0	0.42	0.38	0	0	0	0	0	0
2/13/2025 14:13	62106	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/13/2025 14:13	62102	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/13/2025 14:14	61702	ELIZ_T2	1	1	0	0.9	0.2	-0.7	-0.76	-0.72	1	1	0	300	300	0
2/13/2025 14:14	62106	ELAN_T1	1	0	-1	0.1	0	-0.1	1.06	1.09	0	0	0	0	0	0
2/13/2025 14:14	61704	ELIZ_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/13/2025 14:14	62102	ELAN_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/13/2025 14:14	61304	EARL_T1	0	0	0	0	0	0	-1.6	-1.62	2	2	0	1200	1200	0
2/13/2025 14:16	54504	ENOL_T2	0	0	0	0	0	0	-1.06	-1.09	1	1	0	600	600	0
2/13/2025 14:16	46001	BERW_T1	0	0	0	0	0	0	0.72	0.76	0	0	0	0	0	0
2/13/2025 14:16	54501	ENOL_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
2/13/2025 14:16	61302	EARL_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
2/13/2025 14:16	54502	ENOL_T2	1	22	21	0.9	0.14	-0.76	0	0	0	0	0	0	0	0
2/13/2025 14:16	61304	EARL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/13/2025 14:16	61301	EARL_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
2/13/2025 14:16	54505	ENOL_T2	1	2	1	1.2	0.75	-0.45	0	0	0	0	0	0	0	0
2/13/2025 14:21	47403	PENS_T1	4	2	-2	0.2	0.9	0.7	0	0	0	0	0	0	0	0
2/13/2025 14:21	47401	PENS_T1	4	3	-1	0.8	0.27	-0.53	0.86	0.9	0	0	0	0	0	0
2/13/2025 14:22	44201	POIN_T1	0	0	0	0	0	0	-1.63	-1.69	2	2	0	2100	2100	0
2/13/2025 14:23	44202	POIN_T2	0	0	0	0	0	0	-0.44	-0.42	1	1	0	1200	1200	0
2/13/2025 14:24	58401	MORO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/13/2025 14:24	58402	MORO_T1	0	0	0	0	0	0	0.04	0	2	2	0	1500	1500	0
2/13/2025 14:25	60101	COCA_T1	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
2/13/2025 14:26	58401	MORO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/13/2025 14:26	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 14:26	13904	SEID_T1	19	17	-2	1.18	0.88	-0.3	0	0	0	0	0	0	0	0
2/13/2025 14:26	58402	MORO_T1	0	0	0	0	0	0	0.04	0	2	2	0	1500	1500	0
2/13/2025 14:28	60101	COCA_T1	0	0	0	0	0	0	0.61	0.53	0	0	0	0	0	0
2/13/2025 14:30	53501	EVIL_T2	2	2	0	0.9	1.15	0.25	-1.49	-1.57	2	2	0	1200	1200	0
2/13/2025 14:30	60101	COCA_T1	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
2/13/2025 14:31	54502	ENOL_T2	2	24	22	0.5	0.14	-0.36	0	0	0	0	0	0	0	0
2/13/2025 14:31	54506	ENOL_T2	0	0	0	0	0	0	0.29	0.3	0	1	1	0	600	600
2/13/2025 14:31	54505	ENOL_T2	2	1	-1	0.7	1.4	0.7	0	0	0	0	0	0	0	0
2/13/2025 14:31	54501	ENOL_T2	4	3	-1	0.13	0.13	0	0	0	0	0	0	0	0	0
2/13/2025 14:31	61302	EARL_T1	0	2	2	0	0.45	0.45	0.57	0.4	2	2	0	1800	1800	0
2/13/2025 14:31	61304	EARL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/13/2025 14:32	53501	EVIL_T2	2	2	0	0.9	1.15	0.25	-2.97	-3.14	4	4	0	2400	2400	0
2/13/2025 14:33	53501	EVIL_T2	2	2	0	0.9	1.15	0.25	-1.49	-1.57	2	2	0	1200	1200	0
2/13/2025 14:34	53501	EVIL_T2	2	2	0	0.9	1.15	0.25	-1.49	-1.57	2	2	0	1200	1200	0
2/13/2025 14:39	65902	SAKR_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/13/2025 14:39	65901	SAKR_T2	2	1	-1	5.2	9.7	4.5	-1.26	-1.09	1	1	0	900	900	0
2/13/2025 14:40	60701	BREC_T1	6	2	-4	0.18	0.15	-0.03	-0.79	-0.75	2	2	0	1200	1200	0
2/13/2025 14:41	60701	BREC_T1	6	2	-4	0.18	0.15	-0.03	-1.97	-1.88	5	5	0	3000	3000	0
2/13/2025 14:42	41802	GOCI_T2	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
2/13/2025 14:42	41801	GOCI_T2	1	63	62	0.1	0.21	0.11	0	0	0	0	0	0	0	0
2/13/2025 14:42	41601	CLEV_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/13/2025 14:42	60701	BREC_T1	6	2	-4	0.18	0.15	-0.03	-0.79	-0.75	2	2	0	1200	1200	0
2/13/2025 14:43	41801	GOCI_T2	1	63	62	0.1	0.21	0.11	0	0	0	0	0	0	0	0
2/13/2025 14:43	60701	BREC_T1	6	2	-4	0.18	0.15	-0.03	-0.39	-0.38	1	1	0	600	600	0
2/13/2025 14:43	41802	GOCI_T2	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
2/13/2025 14:44	41802	GOCI_T2	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
2/13/2025 14:44	65902	SAKR_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/13/2025 14:44	41601	CLEV_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/13/2025 14:44	60701	BREC_T1	6	2	-4	0.18	0.15	-0.03	-1.58	-1.5	4	4	0	2400	2400	0
2/13/2025 14:44	41801	GOCI_T2	1	63	62	0.1	0.21	0.11	0	0	0	0	0	0	0	0
2/13/2025 14:44	65901	SAKR_T2	2	1	-1	5.2	9.7	4.5	-1.26	-1.09	1	1	0	900	900	0
2/13/2025 14:46	24103	EHAZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/13/2025 14:46	24102	EHAZ_T1	5	4	-1	0.88	0.15	-0.73	0	0	0	0	0	0	0	0
2/13/2025 14:46	24105	EHAZ_T1	4	4	0	5.75	5.6	-0.15	-1.94	-1.98	1	1	0	1200	1200	0
2/13/2025 14:46	64702	LITI_T2	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
2/13/2025 14:46	24101	EHAZ_T1	49	48	-1	1.09	0.64	-0.45	0	0	0	0	0	0	0	0
2/13/2025 14:46	60701	BREC_T1	2	6	4	0.15	0.12	-0.03	-0.39	-0.38	1	1	0	600	600	0
2/13/2025 14:47	41801	GOCI_T2	62	8	-54	0.2	0.29	0.09	0	0	0	0	0	0	0	0
2/13/2025 14:47	41802	GOCI_T2	4	14	10	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
2/13/2025 14:48	41802	GOCI_T2	4	14	10	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
2/13/2025 14:48	40101	HUNT_T2	1	0	-1	0.5	0	-0.5	-1.41	-1.45	0	0	0	0	0	0
2/13/2025 14:48	41801	GOCI_T2	62	8	-54	0.2	0.29	0.09	0	0	0	0	0	0	0	0
2/13/2025 14:49	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 14:50	41601	CLEV_T1	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
2/13/2025 14:50	64101	REFR_T1	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
2/13/2025 14:51	64702	LITI_T2	0	0	0	0	0	0	-0.83	-0.78	0	0	0	0	0	0
2/13/2025 14:53	64101	REFR_T1	0	0	0	0	0	0	-0.08	-0.11	0	0	0	0	0	0
2/13/2025 14:54	29201	APPE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 14:56	16102	BING_T2	1	1	0	6.1	5	-1.1	0.02	0.02	0	0	0	0	0	0
2/13/2025 14:58	41601	CLEV_T1	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
2/13/2025 15:01	57101	SPHI_T2	6	6	0	1.13	0.57	-0.56	0	0	0	0	0	0	0	0
2/13/2025 15:01	57106	SPHI_T2	3	3	0	1.13	0.8	-0.33	0	0	0	0	0	0	0	0
2/13/2025 15:01	57104	SPHI_T2	2	2	0	2.15	2.6	0.45	0	0	0	0	0	0	0	0
2/13/2025 15:01	57103	SPHI_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
2/13/2025 15:19	44502	HAMI_T2	1	1	0	2.3	2.4	0.1	0.03	0.03	0	0	0	0	0	0
2/13/2025 15:19	23403	HONE_T1	5	10	5	0.1	0.11	0.01	0	0	0	0	0	0	0	0
2/13/2025 15:19	23404	HONE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/13/2025 15:20	55002	NEWP_T1	6	5	-1	0.57	0.74	0.17	0	0	0	0	0	0	0	0
2/13/2025 15:20	55001	NEWP_T1	0	0	0	0	0	0	-0.41	-0.35	0	0	0	0	0	0
2/13/2025 15:23	55002	NEWP_T1	6	5	-1	0.57	0.74	0.17	0	0	0	0	0	0	0	0
2/13/2025 15:23	55001	NEWP_T1	0	0	0	0	0	0	-0.35	-0.37	0	0	0	0	0	0
2/13/2025 15:32	23404	HONE_T1	1	39	38	0.1	0.17	0.07	0	0	0	0	0	0	0	0
2/13/2025 15:32	23403	HONE_T1	9	58	49	0.11	0.23	0.12	-0.7	-0.71	0	0	0	0	0	0
2/13/2025 15:36	25501	MADI_T1	4	9	5	1	1.23	0.23	0	0	1	1	0	600	600	0
2/13/2025 15:36	25503	MADI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 15:39	59102	WALK_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
2/13/2025 15:42	18001	ZION_T1	2	2	0	9.3	9.45	0.15	0	0	0	0	0	0	0	0
2/13/2025 15:47	45802	HEGI_T2	10	11	1	0.34	0.15	-0.19	0	0	0	0	0	0	0	0
2/13/2025 15:49	55002	NEWP_T1	4	5	1	0.63	1	0.37	-0.2	-0.2	0	0	0	0	0	0
2/13/2025 15:52	54505	ENOL_T2	1	1	0	0.9	1	0.1	-1.33	-1.36	1	1	0	600	600	0
2/13/2025 15:52	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/13/2025 15:53	44903	SCOT_T1	0	0	0	0	0	0	0.41	0.49	0	0	0	0	0	0
2/13/2025 15:53	44905	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 15:55	20402	ASHF_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/13/2025 15:55	20401	ASHF_T2	4	26	22	0.35	0.49	0.14	-0.21	-0.16	1	1	0	600	600	0
2/13/2025 15:55	20403	ASHF_T2	1	1	0	0.4	0.3	-0.1	0.2	0.26	0	0	0	0	0	0
2/13/2025 15:57	61304	EARL_T1	0	0	0	0	0	0	-0.76	-0.74	1	1	0	600	600	0
2/13/2025 16:05	65601	QVIL_T2	401	382	-19	0.63	0.53	-0.1	-0.14	-0.18	0	0	0	0	0	0
2/13/2025 16:05	65603	QVIL_T2	548	536	-12	0.54	0.46	-0.08	0	0	0	0	0	0	0	0
2/13/2025 16:05	55002	NEWP_T1	4	5	1	0.88	1	0.12	-0.2	-0.22	0	0	0	0	0	0
2/13/2025 16:05	65604	QVIL_T2	10	11	1	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
2/13/2025 16:05	51401	LYKE_T1	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
2/13/2025 16:05	65602	QVIL_T2	158	126	-32	0.3	0.36	0.06	0	0	0	0	0	0	0	0
2/13/2025 16:06	65603	QVIL_T2	548	536	-12	0.54	0.46	-0.08	0	0	0	0	0	0	0	0
2/13/2025 16:06	65604	QVIL_T2	10	11	1	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
2/13/2025 16:06	65602	QVIL_T2	158	126	-32	0.3	0.36	0.06	0.32	0.29	0	0	0	0	0	0
2/13/2025 16:06	65601	QVIL_T2	401	382	-19	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
2/13/2025 16:07	65604	QVIL_T2	10	11	1	0.63	0.5	-0.13	0.33	0.35	0	0	0	0	0	0
2/13/2025 16:07	65603	QVIL_T2	548	536	-12	0.54	0.46	-0.08	0	0	0	0	0	0	0	0
2/13/2025 16:07	65602	QVIL_T2	158	126	-32	0.3	0.36	0.06	0	0	0	0	0	0	0	0
2/13/2025 16:07	65601	QVIL_T2	401	382	-19	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
2/13/2025 16:08	65603	QVIL_T2	548	536	-12	0.54	0.46	-0.08	0	0	0	0	0	0	0	0
2/13/2025 16:08	65604	QVIL_T2	10	11	1	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
2/13/2025 16:08	52404	GRPA_T2	5	5	0	0.46	0.46	0	0.45	0.4	0	0	0	0	0	0
2/13/2025 16:08	52403	GRPA_T2	18	7	-11	0.65	0.33	-0.32	0	0	0	0	0	0	0	0
2/13/2025 16:08	65601	QVIL_T2	401	382	-19	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
2/13/2025 16:08	52401	GRPA_T2	27	32	5	0.25	0.36	0.11	0	0	0	0	0	0	0	0
2/13/2025 16:08	52402	GRPA_T2	9	8	-1	0.81	0.67	-0.14	0	0	0	0	0	0	0	0
2/13/2025 16:08	65602	QVIL_T2	158	126	-32	0.3	0.36	0.06	0.32	0.29	0	0	0	0	0	0
2/13/2025 16:09	65602	QVIL_T2	158	126	-32	0.3	0.36	0.06	0	0	0	0	0	0	0	0
2/13/2025 16:09	52402	GRPA_T2	9	8	-1	0.81	0.67	-0.14	0	0	0	0	0	0	0	0
2/13/2025 16:09	65604	QVIL_T2	10	11	1	0.63	0.5	-0.13	0.33	0.35	0	0	0	0	0	0
2/13/2025 16:09	52403	GRPA_T2	18	7	-11	0.65	0.33	-0.32	0	0	0	0	0	0	0	0
2/13/2025 16:09	65603	QVIL_T2	548	536	-12	0.54	0.46	-0.08	0	0	0	0	0	0	0	0
2/13/2025 16:09	52401	GRPA_T2	27	32	5	0.25	0.36	0.11	-0.63	-0.62	0	0	0	0	0	0
2/13/2025 16:09	52404	GRPA_T2	5	5	0	0.46	0.46	0	0	0	0	0	0	0	0	0
2/13/2025 16:09	65601	QVIL_T2	401	382	-19	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
2/13/2025 16:10	65604	QVIL_T2	10	11	1	0.63	0.5	-0.13	0.99	1.05	0	0	0	0	0	0
2/13/2025 16:10	65603	QVIL_T2	548	536	-12	0.54	0.46	-0.08	0	0	0	0	0	0	0	0
2/13/2025 16:10	65601	QVIL_T2	401	382	-19	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
2/13/2025 16:10	65602	QVIL_T2	158	126	-32	0.3	0.36	0.06	0	0	0	0	0	0	0	0
2/13/2025 16:14	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 16:14	50624	CCTY_T2	3	2	-1	6.3	6.05	-0.25	0	0	0	0	0	0	0	0
2/13/2025 16:14	50625	CCTY_T2	6	6	0	3.83	3.65	-0.18	0	0	0	0	0	0	0	0
2/13/2025 16:14	50623	CCTY_T2	6	6	0	5.22	5.27	0.05	0	0	0	0	0	0	0	0
2/13/2025 16:14	61301	EARL_T1	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
2/13/2025 16:15	40101	HUNT_T2	0	0	0	0	0	0	-1.33	-1.36	0	0	0	0	0	0
2/13/2025 16:18	50501	MECH_T1	4	4	0	1.03	1.13	0.1	0	0	0	0	0	0	0	0
2/13/2025 16:18	50506	MECH_T1	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
2/13/2025 16:18	50502	MECH_T1	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
2/13/2025 16:19	50502	MECH_T1	1	1	0	1.9	1.8	-0.1	0	0	0	0	0	0	0	0
2/13/2025 16:19	50501	MECH_T1	4	4	0	1.03	1.13	0.1	0	0	0	0	0	0	0	0
2/13/2025 16:19	50506	MECH_T1	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
2/13/2025 16:20	66903	SHIL_T2	0	0	0	0	0	0	-1.17	-1.19	0	0	0	0	0	0
2/13/2025 16:20	55002	NEWP_T1	5	5	0	1	0.74	-0.26	-0.22	-0.19	0	0	0	0	0	0
2/13/2025 16:27	62105	ELAN_T1	0	0	0	0	0	0	0.39	0.39	0	0	0	0	0	0
2/13/2025 16:27	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 16:28	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 16:28	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 16:30	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 16:30	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 16:30	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 16:31	62106	ELAN_T1	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
2/13/2025 16:31	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 16:31	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 16:32	11001	EGRE_T1	0	0	0	0	0	0	-0.22	-0.25	1	1	0	1200	1200	0
2/13/2025 16:39	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 17:45	20402	ASHF_T2	1	4	3	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/13/2025 17:45	20401	ASHF_T2	5	6	1	0.64	0.7	0.06	-0.15	-0.13	1	1	0	600	600	0
2/13/2025 18:04	57401	SPAN_T1	1	0	-1	0.1	0	-0.1	-0.79	-0.53	1	1	0	600	600	0
2/13/2025 18:04	61304	EARL_T1	0	0	0	0	0	0	-0.91	-0.88	1	1	0	600	600	0
2/13/2025 18:04	60701	BREC_T1	0	0	0	0	0	0	-0.35	-0.37	1	1	0	600	600	0
2/13/2025 18:07	43401	BENT_T1	0	4	4	0.4	0.4	0	0	0	0	0	0	0	0	0
2/13/2025 18:07	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	900	900	0
2/13/2025 18:09	57402	SPAN_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
2/13/2025 18:20	57203	ROSS_T1	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
2/13/2025 18:22	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 18:29	57403	SPAN_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
2/13/2025 18:53	58705	ROSE_T2	5	5	0	2.18	2.04	-0.14	0	0	0	0	0	0	0	0
2/13/2025 18:53	58706	ROSE_T2	1	1	0	0.1	0.1	0	-0.21	-0.2	1	1	0	600	600	0
2/13/2025 19:05	52502	PROG_T2	0	0	0	0	0	0	-0.42	-0.47	1	1	0	900	900	0
2/13/2025 19:17	25801	SUTR_T2	12	11	-1	2.06	4.63	2.57	0.02	0.02	0	0	0	0	0	0
2/13/2025 19:18	44903	SCOT_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
2/13/2025 19:18	44905	SCOT_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/13/2025 19:18	56501	ROCK_T2	2	2	0	1.6	1.55	-0.05	0	0	0	0	0	0	0	0
2/13/2025 19:18	56504	ROCK_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
2/13/2025 19:19	46002	BERW_T2	0	0	0	0	0	0	-1.07	-1.04	1	1	0	900	900	0
2/13/2025 19:19	46004	BERW_T2	2	3	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/13/2025 19:22	25501	MADI_T1	36	123	87	0.76	0.59	-0.17	0	0	1	1	0	600	600	0
2/13/2025 19:22	25503	MADI_T1	5	5	0	0.58	0.9	0.32	0	0	0	0	0	0	0	0
2/13/2025 19:23	46001	BERW_T1	0	0	0	0	0	0	0.74	0.74	0	0	0	0	0	0
2/13/2025 19:23	23404	HONE_T1	46	108	62	0.2	0.31	0.11	0	0	0	0	0	0	0	0
2/13/2025 19:23	23403	HONE_T1	50	193	143	0.24	0.28	0.04	-0.68	-0.7	0	0	0	0	0	0
2/13/2025 19:24	40101	HUNT_T2	9	8	-1	0.87	0.87	0	-1.44	-1.4	0	0	0	0	0	0
2/13/2025 19:24	56504	ROCK_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
2/13/2025 19:24	56501	ROCK_T2	2	2	0	1.6	1.55	-0.05	0	0	0	0	0	0	0	0
2/13/2025 19:28	46506	LOHA_T1	3	3	0	0.8	1.7	0.9	0	0	0	0	0	0	0	0
2/13/2025 19:28	46501	LOHA_T1	3	4	1	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
2/13/2025 19:28	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:28	46502	LOHA_T1	0	0	0	0	0	0	-1.34	-1.32	1	1	0	1200	1200	0
2/13/2025 19:29	25404	LAHA_T2	231	241	10	0.23	0.19	-0.04	0	0	0	0	0	0	0	0
2/13/2025 19:29	67502	WEWI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:29	25402	LAHA_T2	142	146	4	1.1	1.23	0.13	-0.5	-0.51	0	0	0	0	0	0
2/13/2025 19:30	46501	LOHA_T1	4	2	-2	0.63	0.1	-0.53	-0.04	-0.06	1	1	0	1200	1200	0
2/13/2025 19:30	41602	CLEV_T1	5	0	-5	0.42	0	-0.42	0	0	0	0	0	0	0	0
2/13/2025 19:30	46506	LOHA_T1	3	3	0	1.2	1.7	0.5	0	0	0	0	0	0	0	0
2/13/2025 19:31	24105	EHAZ_T1	16	16	0	2.35	1.83	-0.52	-1.91	-1.95	1	1	0	1200	1200	0
2/13/2025 19:31	59102	WALK_T2	0	17	17	0	0.19	0.19	0	0	0	0	0	0	0	0
2/13/2025 19:31	45502	DERR_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/13/2025 19:31	24101	EHAZ_T1	36	35	-1	1.67	1.5	-0.17	0	0	0	0	0	0	0	0
2/13/2025 19:31	59101	WALK_T2	0	0	0	0	0	0	0.9	1.01	1	1	0	600	600	0
2/13/2025 19:31	23404	HONE_T1	35	111	76	0.17	0.32	0.15	0	0	0	0	0	0	0	0
2/13/2025 19:31	24103	EHAZ_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/13/2025 19:31	23403	HONE_T1	42	201	159	0.21	0.28	0.07	0	0	0	0	0	0	0	0
2/13/2025 19:31	45501	DERR_T2	2	3	1	1.6	0.8	-0.8	0.23	0.23	2	2	0	1800	1800	0
2/13/2025 19:32	22001	BOHE_T1	278	682	404	0.42	0.51	0.09	0	0	0	0	0	0	0	0
2/13/2025 19:32	22002	BOHE_T1	19	304	285	0.33	0.33	0	0	0	0	0	0	0	0	0
2/13/2025 19:32	29401	BELT_T1	0	3	3	0	0.13	0.13	0	0	1	1	0	900	900	0
2/13/2025 19:32	45502	DERR_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/13/2025 19:32	22003	BOHE_T1	294	526	232	0.59	0.67	0.08	0	0	0	0	0	0	0	0
2/13/2025 19:32	29402	BELT_T1	5	5	0	1.9	1.54	-0.36	0	0	0	0	0	0	0	0
2/13/2025 19:32	23401	HONE_T2	9	9	0	0.41	0.23	-0.18	0.27	0.25	0	0	0	0	0	0
2/13/2025 19:32	10805	CHHI_T2	6	8	2	1.67	2.33	0.66	-1.12	-1.2	1	1	0	600	600	0
2/13/2025 19:32	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:32	45501	DERR_T2	2	3	1	1.6	0.8	-0.8	0.23	0.23	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/13/2025 19:33	24103	EHAZ_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/13/2025 19:33	61701	ELIZ_T1	1	1	0	4.9	4.9	0	0.11	0.11	0	0	0	0	0	0
2/13/2025 19:33	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:33	24105	EHAZ_T1	16	16	0	2.35	1.83	-0.52	0	0	0	0	0	0	0	0
2/13/2025 19:33	41602	CLEV_T1	5	0	-5	0.42	0	-0.42	0	0	0	0	0	0	0	0
2/13/2025 19:33	22001	BOHE_T1	278	682	404	0.42	0.51	0.09	0	0	0	0	0	0	0	0
2/13/2025 19:33	22002	BOHE_T1	19	304	285	0.33	0.33	0	0	0	0	0	0	0	0	0
2/13/2025 19:33	24101	EHAZ_T1	36	35	-1	1.67	1.5	-0.17	0	0	0	0	0	0	0	0
2/13/2025 19:33	46506	LOHA_T1	3	3	0	1.2	1.7	0.5	0	0	0	0	0	0	0	0
2/13/2025 19:33	24102	EHAZ_T1	0	0	0	0	0	0	-0.84	-0.23	0	0	0	0	0	0
2/13/2025 19:33	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
2/13/2025 19:33	15603	NSTR_T2	0	0	0	0	0	0	-1.11	-1.1	0	0	0	0	0	0
2/13/2025 19:33	22003	BOHE_T1	294	526	232	0.59	0.67	0.08	0	0	0	0	0	0	0	0
2/13/2025 19:33	46501	LOHA_T1	4	2	-2	0.63	0.1	-0.53	0	0	0	0	0	0	0	0
2/13/2025 19:34	11904	ETEX_T2	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
2/13/2025 19:34	46602	LACR_T1	0	0	0	0	0	0	-0.63	-0.65	0	0	0	0	0	0
2/13/2025 19:34	11901	ETEX_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/13/2025 19:34	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:34	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
2/13/2025 19:34	43402	BENT_T1	0	2	2	0	0	0	-0.92	-0.91	1	1	0	900	900	0
2/13/2025 19:34	43401	BENT_T1	3	44	41	0.33	0.87	0.54	0	0	0	0	0	0	0	0
2/13/2025 19:35	51003	NHAR_T1	1	1	0	7.3	7.2	-0.1	0	0	0	0	0	0	0	0
2/13/2025 19:35	51002	NHAR_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
2/13/2025 19:35	20603	GRWO_T2	27	16	-11	0.61	0.23	-0.38	0.49	0.52	0	0	0	0	0	0
2/13/2025 19:35	17802	GILB_T1	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
2/13/2025 19:35	51004	NHAR_T1	2	2	0	6.3	6.15	-0.15	0	0	0	0	0	0	0	0
2/13/2025 19:35	20601	GRWO_T2	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
2/13/2025 19:36	58402	MORO_T1	1	6	5	0.5	0.18	-0.32	-0.33	-0.38	3	3	0	1950	1950	0
2/13/2025 19:36	20403	ASHF_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
2/13/2025 19:36	20401	ASHF_T2	4	4	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/13/2025 19:36	65503	MOJO_T2	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
2/13/2025 19:37	57106	SPHI_T2	3	3	0	0.5	0.67	0.17	0	0	0	0	0	0	0	0
2/13/2025 19:37	20601	GRWO_T2	1	1	0	1.6	1.9	0.3	0	0	0	0	0	0	0	0
2/13/2025 19:37	54505	ENOL_T2	0	1	1	0	0.1	0.1	-1.18	-1.18	1	1	0	600	600	0
2/13/2025 19:37	59101	WALK_T2	0	0	0	0	0	0	1.01	0.82	1	1	0	600	600	0
2/13/2025 19:37	57104	SPHI_T2	3	3	0	4.4	2.77	-1.63	-0.02	-0.08	0	0	0	0	0	0
2/13/2025 19:37	40601	PIGR_T1	7	67	60	0.13	0.29	0.16	0	0	0	0	0	0	0	0
2/13/2025 19:37	22602	KIMB_T1	0	1	1	0	0	0	0.14	0.13	0	0	0	0	0	0
2/13/2025 19:37	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
2/13/2025 19:37	40101	HUNT_T2	8	3	-5	0.91	0.87	-0.04	-1.4	-1.42	0	0	0	0	0	0
2/13/2025 19:37	59102	WALK_T2	0	17	17	0	0.19	0.19	0	0	0	0	0	0	0	0
2/13/2025 19:37	20603	GRWO_T2	27	16	-11	0.61	0.23	-0.38	0.52	0.49	0	0	0	0	0	0
2/13/2025 19:38	16302	ALPA_T2	0	0	0	0	0	0	-0.47	-0.39	0	0	0	0	0	0
2/13/2025 19:38	46802	HEPB_T1	0	0	0	0	0	0	-0.26	-0.23	0	0	0	0	0	0
2/13/2025 19:38	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-0.99	1	1	0	600	600	0
2/13/2025 19:38	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:38	57201	ROSS_T1	0	0	0	0	0	0	-0.62	-0.59	0	0	0	0	0	0
2/13/2025 19:38	67103	SPRI_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
2/13/2025 19:38	61801	EELI_T2	0	0	0	0	0	0	-0.96	-0.94	1	1	0	600	600	0
2/13/2025 19:38	22602	KIMB_T1	0	1	1	0	0	0	0.14	0.13	0	0	0	0	0	0
2/13/2025 19:38	54502	ENOL_T2	0	0	0	0	0	0	-1.93	-1.95	1	1	0	600	600	0
2/13/2025 19:38	10401	LIGA_T1	0	8	8	0	0.14	0.14	0	0	0	0	0	0	0	0
2/13/2025 19:38	45802	HEGI_T2	10	47	37	0.23	1.04	0.81	0	0	0	0	0	0	0	0
2/13/2025 19:38	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/13/2025 19:39	60803	BUCK_T1	18	20	2	0.46	0.41	-0.05	0	0	0	0	0	0	0	0
2/13/2025 19:39	57205	ROSS_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
2/13/2025 19:39	52402	GRPA_T2	3	1	-2	0.53	0.1	-0.43	0	0	0	0	0	0	0	0
2/13/2025 19:39	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/13/2025 19:39	54001	SDLE_T1	10	58	48	0.64	0.31	-0.33	0	0	0	0	0	0	0	0
2/13/2025 19:39	41205	KENM_T2	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
2/13/2025 19:39	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:39	24902	WHHA_T1	10	9	-1	0.8	0.67	-0.13	0.84	0.84	0	0	0	0	0	0
2/13/2025 19:39	54601	SUMM_T2	0	0	0	0	0	0	-3.46	-3.42	4	4	0	4200	4200	0
2/13/2025 19:39	63501	HEID_TBK1-2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
2/13/2025 19:39	60801	BUCK_T1	38	53	15	0.32	0.4	0.08	-0.23	-0.22	0	0	0	0	0	0
2/13/2025 19:39	58402	MORO_T1	1	6	5	0.5	0.18	-0.32	0	0	0	0	0	0	0	0
2/13/2025 19:39	43801	SWIL_T1	2	2	0	2.9	2.95	0.05	0	0	0	0	0	0	0	0
2/13/2025 19:39	52403	GRPA_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/13/2025 19:39	52401	GRPA_T2	0	3	3	0	0.13	0.13	-0.57	-0.59	0	0	0	0	0	0
2/13/2025 19:39	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:39	24901	WHHA_T1	3	3	0	2.73	2.37	-0.36	0	0	0	0	0	0	0	0
2/13/2025 19:39	53601	DALM_T2	1	1	0	0.2	0.7	0.5	-0.74	-0.73	1	1	0	600	600	0
2/13/2025 19:40	10801	CHHI_T1	0	0	0	0	0	0	-2.02	-2.03	3	3	0	2100	2100	0
2/13/2025 19:40	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:40	57201	ROSS_T1	0	0	0	0	0	0	-0.62	-0.59	0	0	0	0	0	0
2/13/2025 19:40	61801	EELI_T2	0	0	0	0	0	0	-0.96	-0.94	1	1	0	600	600	0
2/13/2025 19:40	47401	PENS_T1	0	0	0	0	0	0	0.93	0.89	0	0	0	0	0	0
2/13/2025 19:40	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/13/2025 19:40	59302	MCAL_T1	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
2/13/2025 19:40	59301	MCAL_T1	3	47	44	0.5	0.24	-0.26	-1.21	-1.22	0	0	0	0	0	0
2/13/2025 19:40	61703	ELIZ_T1	0	0	0	0	0	0	-0.87	-0.79	1	1	0	900	900	0
2/13/2025 19:40	40601	PIGR_T1	7	67	60	0.13	0.29	0.16	0	0	0	0	0	0	0	0
2/13/2025 19:40	61701	ELIZ_T1	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0	0
2/13/2025 19:40	65502	MOJO_T2	0	0	0	0	0	0	-0.96	-0.99	0	0	0	0	0	0
2/13/2025 19:40	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-0.99	1	1	0	600	600	0
2/13/2025 19:40	61702	ELIZ_T2	0	0	0	0	0	0	-0.75	-0.75	1	1	0	300	300	0
2/13/2025 19:41	58705	ROSE_T2	5	5	0	1.98	2.14	0.16	0	0	0	0	0	0	0	0
2/13/2025 19:41	61802	EELI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:41	58201	NEWV_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/13/2025 19:41	54001	SDLE_T1	10	58	48	0.64	0.31	-0.33	0	0	0	0	0	0	0	0
2/13/2025 19:41	41602	CLEV_T1	5	0	-5	0.42	0	-0.42	0	0	0	0	0	0	0	0
2/13/2025 19:41	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:41	66303	MCGO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/13/2025 19:41	53501	EVIL_T2	1	2	1	0.4	0.25	-0.15	-1.57	-1.49	2	2	0	1200	1200	0
2/13/2025 19:41	58706	ROSE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/13/2025 19:41	42501	ALTA_T2	0	0	0	0	0	0	0.04	0.04	1	1	0	600	600	0
2/13/2025 19:41	52501	PROG_T1	0	0	0	0	0	0	0.5	0.52	1	1	0	300	300	0
2/13/2025 19:41	61801	EELI_T2	0	0	0	0	0	0	-0.96	-0.94	1	1	0	600	600	0
2/13/2025 19:41	58803	COCO_T1	1	1	0	1.5	2	0.5	-0.04	-0.05	0	0	0	0	0	0
2/13/2025 19:41	54505	ENOL_T2	0	1	1	0	0.1	0.1	-1.18	-1.18	1	1	0	600	600	0
2/13/2025 19:41	57203	ROSS_T1	0	0	0	0	0	0	0.96	0.98	0	0	0	0	0	0
2/13/2025 19:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:41	58202	NEWV_T1	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
2/13/2025 19:41	57401	SPAN_T1	0	0	0	0	0	0	-0.58	-0.64	1	1	0	600	600	0
2/13/2025 19:41	54506	ENOL_T2	0	0	0	0	0	0	0.37	0.26	1	1	0	600	600	0
2/13/2025 19:41	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/13/2025 19:41	58701	ROSE_T2	0	0	0	0	0	0	-0.22	-0.24	1	1	0	600	600	0
2/13/2025 19:41	66302	MCGO_T2	0	0	0	0	0	0	-0.81	-0.88	0	0	0	0	0	0
2/13/2025 19:42	58706	ROSE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/13/2025 19:42	24901	WHHA_T1	3	3	0	2.73	2.37	-0.36	0	0	0	0	0	0	0	0
2/13/2025 19:42	58201	NEWV_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/13/2025 19:42	57104	SPHI_T2	3	3	0	4.4	2.77	-1.63	0	0	0	0	0	0	0	0
2/13/2025 19:42	16302	ALPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:42	57106	SPHI_T2	3	3	0	0.5	0.67	0.17	0	0	0	0	0	0	0	0
2/13/2025 19:42	11901	ETEX_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/13/2025 19:42	11904	ETEX_T2	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
2/13/2025 19:42	63501	HEID_TBK1-2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
2/13/2025 19:42	55002	NEWP_T1	2	3	1	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
2/13/2025 19:42	58705	ROSE_T2	5	5	0	1.98	2.14	0.16	0	0	0	0	0	0	0	0
2/13/2025 19:42	57201	ROSS_T1	0	0	0	0	0	0	-0.62	-0.59	0	0	0	0	0	0
2/13/2025 19:42	60301	TWVA_T2	0	0	0	0	0	0	-1.89	-1.9	2	2	0	1800	1800	0
2/13/2025 19:42	17102	WTRE_T2	0	2	2	0	0.2	0.2	-0.54	-0.58	2	2	0	2400	2400	0
2/13/2025 19:42	53501	EVIL_T2	1	2	1	0.4	0.25	-0.15	-1.57	-1.49	2	2	0	1200	1200	0
2/13/2025 19:42	17101	WTRE_T2	2	2	0	6.2	7.35	1.15	0	0	0	0	0	0	0	0
2/13/2025 19:42	24902	WHHA_T1	10	9	-1	0.8	0.67	-0.13	0.84	0.84	0	0	0	0	0	0
2/13/2025 19:42	58202	NEWV_T1	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
2/13/2025 19:42	52502	PROG_T2	0	0	0	0	0	0	-0.4	-0.44	1	1	0	900	900	0
2/13/2025 19:42	55001	NEWP_T1	0	0	0	0	0	0	-0.98	-0.9	1	1	0	600	600	0
2/13/2025 19:42	58703	ROSE_T2	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
2/13/2025 19:42	57101	SPHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:43	50506	MECH_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
2/13/2025 19:43	61701	ELIZ_T1	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0	0
2/13/2025 19:43	61703	ELIZ_T1	0	0	0	0	0	0	-0.87	-0.79	1	1	0	900	900	0
2/13/2025 19:43	40601	PIGR_T1	7	67	60	0.13	0.29	0.16	-0.13	-0.14	0	0	0	0	0	0
2/13/2025 19:43	67103	SPRI_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
2/13/2025 19:43	54206	PENN_T2	0	0	0	0	0	0	-0.05	-0.09	0	0	0	0	0	0
2/13/2025 19:43	50502	MECH_T1	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
2/13/2025 19:43	57205	ROSS_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
2/13/2025 19:43	57401	SPAN_T1	0	0	0	0	0	0	-0.58	-0.64	1	1	0	600	600	0
2/13/2025 19:43	47403	PENS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:43	50501	MECH_T1	4	4	0	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
2/13/2025 19:43	57201	ROSS_T1	0	0	0	0	0	0	-0.62	-0.59	0	0	0	0	0	0
2/13/2025 19:43	55002	NEWP_T1	2	3	1	0.65	0.63	-0.02	-0.15	-0.17	0	0	0	0	0	0
2/13/2025 19:44	57401	SPAN_T1	0	0	0	0	0	0	-0.58	-0.64	1	1	0	600	600	0
2/13/2025 19:44	67703	WERN_T2	0	0	0	0	0	0	-0.12	-0.17	1	1	0	900	900	0
2/13/2025 19:44	10801	CHHI_T1	0	0	0	0	0	0	-2.02	-2.03	3	3	0	2100	2100	0
2/13/2025 19:44	43402	BENT_T1	0	2	2	0	0	0	-0.91	0.04	1	0	-1	900	0	-900
2/13/2025 19:44	17101	WTRE_T2	2	2	0	6.2	7.35	1.15	0	0	0	0	0	0	0	0
2/13/2025 19:44	61801	EELI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:44	63501	HEID_TBK1-2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
2/13/2025 19:44	11301	EMMA_T1	0	0	0	0	0	0	-0.76	-0.76	0	0	0	0	0	0
2/13/2025 19:44	12002	HATF_T1	0	0	0	0	0	0	-1.08	-1.05	1	1	0	1200	1200	0
2/13/2025 19:44	57002	WHHI_T2	0	0	0	0	0	0	-1.22	-1.19	1	1	0	1200	1200	0
2/13/2025 19:44	57203	ROSS_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
2/13/2025 19:44	57106	SPHI_T2	3	3	0	0.5	0.67	0.17	0	0	0	0	0	0	0	0
2/13/2025 19:44	16302	ALPA_T2	0	0	0	0	0	0	-0.47	-0.39	0	0	0	0	0	0
2/13/2025 19:44	55002	NEWP_T1	2	3	1	0.65	0.63	-0.02	-0.15	-0.17	0	0	0	0	0	0
2/13/2025 19:44	52502	PROG_T2	0	0	0	0	0	0	-0.4	-0.44	1	1	0	900	900	0
2/13/2025 19:44	52501	PROG_T1	0	0	0	0	0	0	1	1.04	2	2	0	600	600	0
2/13/2025 19:44	43401	BENT_T1	3	44	41	0.33	0.87	0.54	0	0	0	0	0	0	0	0
2/13/2025 19:44	17102	WTRE_T2	0	2	2	0	0.2	0.2	-0.54	-0.58	2	2	0	2400	2400	0
2/13/2025 19:44	12001	HATF_T1	1	1	0	5.4	3.6	-1.8	0	0	0	0	0	0	0	0
2/13/2025 19:44	54603	SUMM_T2	0	0	0	0	0	0	-0.38	-0.41	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/13/2025 19:44	57104	SPHI_T2	3	3	0	4.4	2.77	-1.63	-0.04	-0.17	0	0	0	0	0	0
2/13/2025 19:44	46803	HEPB_T2	0	0	0	0	0	0	0.5	0.46	0	0	0	0	0	0
2/13/2025 19:44	12006	HATF_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/13/2025 19:45	65604	QVIL_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
2/13/2025 19:45	57002	WHHI_T2	0	0	0	0	0	0	-1.22	-1.19	1	1	0	1200	1200	0
2/13/2025 19:45	57401	SPAN_T1	0	2	2	0	0.2	0.2	-1.75	-1.91	3	3	0	1800	1800	0
2/13/2025 19:45	60101	COCA_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
2/13/2025 19:45	65602	QVIL_T2	19	23	4	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
2/13/2025 19:45	58401	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:45	53501	EVIL_T2	2	1	-1	0.25	0.1	-0.15	-1.57	-1.49	2	2	0	1200	1200	0
2/13/2025 19:45	58402	MORO_T1	6	0	-6	0.18	0	-0.18	-0.38	-0.3	3	3	0	1950	1950	0
2/13/2025 19:45	57402	SPAN_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
2/13/2025 19:45	65601	QVIL_T2	47	46	-1	0.22	0.23	0.01	0	0	0	0	0	0	0	0
2/13/2025 19:45	65603	QVIL_T2	41	40	-1	0.24	0.22	-0.02	0.15	0.18	0	0	0	0	0	0
2/13/2025 19:45	52501	PROG_T1	0	0	0	0	0	0	0.5	0.52	1	1	0	300	300	0
2/13/2025 19:45	54505	ENOL_T2	1	1	0	0.1	0.3	0.2	-1.18	-1.18	1	1	0	600	600	0
2/13/2025 19:46	65802	RTWN_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
2/13/2025 19:46	15101	UPHA_T1	0	0	0	0	0	0	0.6	0.65	0	0	0	0	0	0
2/13/2025 19:46	57401	SPAN_T1	0	2	2	0	0.2	0.2	-0.58	-0.64	1	1	0	600	600	0
2/13/2025 19:46	43402	BENT_T1	0	2	2	0	0.25	0.25	-0.91	0.04	1	0	-1	900	0	-900
2/13/2025 19:46	43401	BENT_T1	14	45	31	0.76	0.84	0.08	0	0	0	0	0	0	0	0
2/13/2025 19:46	60101	COCA_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
2/13/2025 19:46	57104	SPHI_T2	3	3	0	3.67	1.6	-2.07	-0.02	-0.08	0	0	0	0	0	0
2/13/2025 19:46	57106	SPHI_T2	3	3	0	0.57	0.97	0.4	0	0	0	0	0	0	0	0
2/13/2025 19:46	54701	NEBL_T1	3	4	1	0.47	0.68	0.21	0	0	0	0	0	0	0	0
2/13/2025 19:47	58401	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:47	57104	SPHI_T2	3	3	0	3.67	1.6	-2.07	-0.04	-0.17	0	0	0	0	0	0
2/13/2025 19:47	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:47	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:47	60701	BREC_T1	0	1	1	0	0	0	-0.25	-0.29	1	1	0	600	600	0
2/13/2025 19:47	57106	SPHI_T2	3	3	0	0.57	0.97	0.4	0	0	0	0	0	0	0	0
2/13/2025 19:47	44201	POIN_T1	14	11	-3	0.13	0.14	0.01	-2.14	-2.15	2	2	0	2100	2100	0
2/13/2025 19:47	42902	MIDD_T2	1	1	0	0.5	0.5	0	-1.26	-1.01	1	1	0	600	600	0
2/13/2025 19:47	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:47	65207	PRIN_T4	3	4	1	1.07	1.23	0.16	0	0	0	0	0	0	0	0
2/13/2025 19:47	40601	PIGR_T1	62	56	-6	0.3	0.27	-0.03	-0.13	-0.14	0	0	0	0	0	0
2/13/2025 19:47	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:47	42903	MIDD_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/13/2025 19:47	58402	MORO_T1	6	0	-6	0.18	0	-0.18	-0.38	-0.3	3	3	0	1950	1950	0
2/13/2025 19:48	52401	GRPA_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
2/13/2025 19:48	61701	ELIZ_T1	1	1	0	4.9	5	0.1	0	0	0	0	0	0	0	0
2/13/2025 19:48	57106	SPHI_T2	3	3	0	0.57	0.97	0.4	0	0	0	0	0	0	0	0
2/13/2025 19:48	52403	GRPA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/13/2025 19:48	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:48	54601	SUMM_T2	0	0	0	0	0	0	-1.73	-1.71	2	2	0	2100	2100	0
2/13/2025 19:48	65601	QVIL_T2	47	46	-1	0.22	0.23	0.01	0	0	0	0	0	0	0	0
2/13/2025 19:48	62105	ELAN_T1	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
2/13/2025 19:48	66302	MCGO_T2	0	0	0	0	0	0	-0.81	-0.88	0	0	0	0	0	0
2/13/2025 19:48	65603	QVIL_T2	41	40	-1	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
2/13/2025 19:48	60701	BREC_T1	0	1	1	0	0	0	-0.25	-0.29	1	1	0	600	600	0
2/13/2025 19:48	57104	SPHI_T2	3	3	0	3.67	1.6	-2.07	-0.02	-0.08	0	0	0	0	0	0
2/13/2025 19:48	47203	FAXO_T2	0	0	0	0	0	0	-1.04	-1.07	0	0	0	0	0	0
2/13/2025 19:48	40601	PIGR_T1	62	56	-6	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
2/13/2025 19:48	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:48	66303	MCGO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/13/2025 19:48	54501	ENOL_T2	0	0	0	0	0	0	-0.47	-0.52	1	1	0	600	600	0
2/13/2025 19:48	54505	ENOL_T2	1	1	0	0.1	0.3	0.2	-1.18	-1.18	1	1	0	600	600	0
2/13/2025 19:48	52402	GRPA_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/13/2025 19:48	52404	GRPA_T2	1	1	0	0.8	0.9	0.1	0.42	0.42	0	0	0	0	0	0
2/13/2025 19:48	61703	ELIZ_T1	0	0	0	0	0	0	-0.87	-0.79	1	1	0	900	900	0
2/13/2025 19:48	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:48	65602	QVIL_T2	19	23	4	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
2/13/2025 19:48	61801	EELI_T2	0	1	1	0	0.1	0.1	-0.96	-0.94	1	1	0	600	600	0
2/13/2025 19:48	65604	QVIL_T2	2	2	0	0.6	0.55	-0.05	0.44	0.44	0	0	0	0	0	0
2/13/2025 19:48	52501	PROG_T1	0	0	0	0	0	0	0.5	0.52	1	1	0	300	300	0
2/13/2025 19:49	59102	WALK_T2	15	17	2	0.19	0.2	0.01	0	0	0	0	0	0	0	0
2/13/2025 19:49	60803	BUCK_T1	18	20	2	0.41	0.57	0.16	0	0	0	0	0	0	0	0
2/13/2025 19:49	61803	EELI_T2	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
2/13/2025 19:49	40302	TAMA_T3	5	7	2	0.44	0.44	0	0	0	0	0	0	0	0	0
2/13/2025 19:49	60801	BUCK_T1	8	63	55	0.15	0.6	0.45	-0.23	-0.22	0	0	0	0	0	0
2/13/2025 19:49	63602	LETO_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
2/13/2025 19:49	54503	ENOL_T2	0	0	0	0	0	0	-0.32	-0.34	1	1	0	600	600	0
2/13/2025 19:49	46204	DANV_T2	2	0	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
2/13/2025 19:49	57104	SPHI_T2	3	3	0	3.67	1.6	-2.07	-0.02	-0.08	0	0	0	0	0	0
2/13/2025 19:49	53501	EVIL_T2	2	1	-1	0.25	0.1	-0.15	-1.57	-1.49	2	2	0	1200	1200	0
2/13/2025 19:49	60101	COCA_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
2/13/2025 19:49	50502	MECH_T1	1	1	0	1.4	1.8	0.4	0	0	0	0	0	0	0	0
2/13/2025 19:49	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:49	54601	SUMM_T2	0	0	0	0	0	0	-0.38	-0.41	1	1	0	900	900	0
2/13/2025 19:49	50501	MECH_T1	4	4	0	0.13	0.4	0.27	0	0	0	0	0	0	0	0
2/13/2025 19:49	50506	MECH_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
2/13/2025 19:49	54505	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/13/2025 19:49	61801	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/13/2025 19:49	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:49	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:49	46203	DANV_T2	21	26	5	0.5	0.53	0.03	-0.74	-0.7	0	0	0	0	0	0
2/13/2025 19:49	60301	TWVA_T2	0	0	0	0	0	0	-3.79	-3.81	4	4	0	3600	3600	0
2/13/2025 19:49	63501	HEID_TBK1-2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
2/13/2025 19:49	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:49	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:49	57106	SPHI_T2	3	3	0	0.57	0.97	0.4	0	0	0	0	0	0	0	0
2/13/2025 19:50	58401	MORO_T1	0	1	1	0	0	0	-1.95	-2	2	2	0	1200	1200	0
2/13/2025 19:50	63501	HEID_TBK1-2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
2/13/2025 19:50	62106	ELAN_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
2/13/2025 19:50	57106	SPHI_T2	3	3	0	0.57	0.97	0.4	0	0	0	0	0	0	0	0
2/13/2025 19:50	65603	QVIL_T2	41	40	-1	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
2/13/2025 19:50	61801	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/13/2025 19:50	57401	SPAN_T1	0	2	2	0	0.2	0.2	-0.58	-0.64	1	1	0	600	600	0
2/13/2025 19:50	65604	QVIL_T2	2	2	0	0.6	0.55	-0.05	0.44	0.44	0	0	0	0	0	0
2/13/2025 19:50	65602	QVIL_T2	19	23	4	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
2/13/2025 19:50	60701	BREC_T1	0	1	1	0	0	0	-0.51	-0.59	2	2	0	1200	1200	0
2/13/2025 19:50	46801	HEPB_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
2/13/2025 19:50	66303	MCGO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/13/2025 19:50	66302	MCGO_T2	0	0	0	0	0	0	-0.81	-0.88	0	0	0	0	0	0
2/13/2025 19:50	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:50	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:50	40602	PIGR_T1	0	1	1	0	0	0	0.22	0.19	0	0	0	0	0	0
2/13/2025 19:50	54502	ENOL_T2	0	0	0	0	0	0	-1.93	-1.95	1	1	0	600	600	0
2/13/2025 19:50	57403	SPAN_T1	0	0	0	0	0	0	0.15	0.2	0	0	0	0	0	0
2/13/2025 19:50	54505	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/13/2025 19:50	40601	PIGR_T1	62	56	-6	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
2/13/2025 19:50	57104	SPHI_T2	3	3	0	3.67	1.6	-2.07	-0.04	-0.17	0	0	0	0	0	0
2/13/2025 19:50	16102	BING_T2	0	1	1	0	0	0	0	-0.01	0	0	0	0	0	0
2/13/2025 19:50	65601	QVIL_T2	47	46	-1	0.22	0.23	0.01	0	0	0	0	0	0	0	0
2/13/2025 19:50	61802	EELI_T2	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
2/13/2025 19:50	58402	MORO_T1	6	0	-6	0.18	0	-0.18	0	0	0	0	0	0	0	0
2/13/2025 19:51	61701	ELIZ_T1	1	1	0	4.9	5	0.1	0	0	0	0	0	0	0	0
2/13/2025 19:51	65602	QVIL_T2	19	23	4	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
2/13/2025 19:51	61703	ELIZ_T1	0	0	0	0	0	0	-2.36	-2.42	3	3	0	2700	2700	0
2/13/2025 19:51	58201	NEWV_T1	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
2/13/2025 19:51	54001	SDLE_T1	33	52	19	0.4	0.32	-0.08	0	0	0	0	0	0	0	0
2/13/2025 19:51	62105	ELAN_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
2/13/2025 19:51	61801	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/13/2025 19:51	58401	MORO_T1	0	1	1	0	0	0	-0.98	-1	1	1	0	600	600	0
2/13/2025 19:51	61802	EELI_T2	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
2/13/2025 19:51	66903	SHIL_T2	0	0	0	0	0	0	-1.25	-1.26	0	0	0	0	0	0
2/13/2025 19:51	58202	NEWV_T1	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
2/13/2025 19:51	65603	QVIL_T2	41	40	-1	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
2/13/2025 19:51	55002	NEWP_T1	2	3	1	0.55	0.67	0.12	-0.3	-0.34	0	0	0	0	0	0
2/13/2025 19:51	60201	ATGL_T2	4	1	-3	0.15	0.1	-0.05	0.96	0.95	0	0	0	0	0	0
2/13/2025 19:51	64702	LITI_T2	0	0	0	0	0	0	-0.77	-0.72	0	0	0	0	0	0
2/13/2025 19:51	65604	QVIL_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
2/13/2025 19:51	58402	MORO_T1	6	0	-6	0.18	0	-0.18	0	0	0	0	0	0	0	0
2/13/2025 19:51	65601	QVIL_T2	47	46	-1	0.22	0.23	0.01	-0.06	-0.07	0	0	0	0	0	0
2/13/2025 19:51	60701	BREC_T1	0	1	1	0	0	0	-0.59	-0.62	2	2	0	1200	1200	0
2/13/2025 19:51	59102	WALK_T2	15	17	2	0.19	0.2	0.01	0.31	0.29	0	0	0	0	0	0
2/13/2025 19:52	50502	MECH_T1	1	1	0	1.4	1.8	0.4	0	0	0	0	0	0	0	0
2/13/2025 19:52	60201	ATGL_T2	4	1	-3	0.15	0.1	-0.05	0.96	0.95	0	0	0	0	0	0
2/13/2025 19:52	65604	QVIL_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
2/13/2025 19:52	11001	EGRE_T1	0	0	0	0	0	0	-0.44	-0.48	1	1	0	1200	1200	0
2/13/2025 19:52	61301	EARL_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
2/13/2025 19:52	65603	QVIL_T2	41	40	-1	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
2/13/2025 19:52	54505	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/13/2025 19:52	54701	NEBL_T1	3	4	1	0.47	0.68	0.21	0	0	0	0	0	0	0	0
2/13/2025 19:52	65601	QVIL_T2	47	46	-1	0.22	0.23	0.01	0	0	0	0	0	0	0	0
2/13/2025 19:52	50506	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:52	64801	NONE_T2	4	7	3	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
2/13/2025 19:52	59102	WALK_T2	15	17	2	0.19	0.2	0.01	0.29	0.3	0	0	0	0	0	0
2/13/2025 19:52	54504	ENOL_T2	0	0	0	0	0	0	-0.99	-1	1	1	0	600	600	0
2/13/2025 19:52	60701	BREC_T1	0	1	1	0	0	0	-0.59	-0.62	2	2	0	1200	1200	0
2/13/2025 19:52	50504	MECH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:52	64802	MONE_T2	7	6	-1	0.17	0.22	0.05	0	0	0	0	0	0	0	0
2/13/2025 19:52	65602	QVIL_T2	19	23	4	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
2/13/2025 19:52	50501	MECH_T1	4	4	0	0.13	0.4	0.27	0	0	0	0	0	0	0	0
2/13/2025 19:53	62105	ELAN_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
2/13/2025 19:53	60701	BREC_T1	0	1	1	0	0	0	-0.29	-0.31	1	1	0	600	600	0
2/13/2025 19:53	65702	RVIL_T2	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
2/13/2025 19:53	58401	MORO_T1	0	1	1	0	0	0	-2	-2.04	2	2	0	1200	1200	0
2/13/2025 19:53	58402	MORO_T1	6	0	-6	0.18	0	-0.18	0	0	0	0	0	0	0	0
2/13/2025 19:53	53501	EVIL_T2	2	1	-1	0.25	0.1	-0.15	-2.98	-3.07	4	4	0	2400	2400	0
2/13/2025 19:53	62106	ELAN_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
2/13/2025 19:54	12006	HATF_T1	0	2	2	0	0	0	0.33	0.25	1	1	0	1200	1200	0
2/13/2025 19:54	65603	QVIL_T2	41	40	-1	0.24	0.22	-0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/13/2025 19:54	65604	QVIL_T2	2	2	0	0.6	0.55	-0.05	0.44	0.45	0	0	0	0	0	0
2/13/2025 19:54	57203	ROSS_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
2/13/2025 19:54	61301	EARL_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
2/13/2025 19:54	58401	MORO_T1	0	1	1	0	0	0	-1	-1.02	1	1	0	600	600	0
2/13/2025 19:54	65601	QVIL_T2	47	46	-1	0.22	0.23	0.01	0	0	0	0	0	0	0	0
2/13/2025 19:54	66503	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:54	12001	HATF_T1	1	1	0	3.6	3.6	0	0	0	0	0	0	0	0	0
2/13/2025 19:54	65602	QVIL_T2	19	23	4	0.38	0.33	-0.05	0.13	0.16	0	0	0	0	0	0
2/13/2025 19:54	57403	SPAN_T1	0	0	0	0	0	0	0.2	0.16	0	0	0	0	0	0
2/13/2025 19:54	18001	ZION_T1	2	2	0	8.8	8.85	0.05	0	0	0	0	0	0	0	0
2/13/2025 19:54	58402	MORO_T1	6	0	-6	0.18	0	-0.18	0	0	0	0	0	0	0	0
2/13/2025 19:54	57401	SPAN_T1	0	2	2	0	0.2	0.2	-0.64	-0.61	1	1	0	600	600	0
2/13/2025 19:55	65702	RVIL_T2	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
2/13/2025 19:55	65602	QVIL_T2	19	23	4	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
2/13/2025 19:55	64204	KINZ_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/13/2025 19:55	57401	SPAN_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/13/2025 19:55	58402	MORO_T1	6	0	-6	0.18	0	-0.18	0	0	0	0	0	0	0	0
2/13/2025 19:55	64202	KINZ_T1	0	0	0	0	0	0	0.61	0.56	0	0	0	0	0	0
2/13/2025 19:55	65604	QVIL_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
2/13/2025 19:55	65603	QVIL_T2	41	40	-1	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
2/13/2025 19:55	60101	COCA_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
2/13/2025 19:55	57403	SPAN_T1	0	0	0	0	0	0	0.2	0.16	0	0	0	0	0	0
2/13/2025 19:55	58401	MORO_T1	0	1	1	0	0	0	-1	-1.02	1	1	0	600	600	0
2/13/2025 19:55	65601	QVIL_T2	47	46	-1	0.22	0.23	0.01	0	0	0	0	0	0	0	0
2/13/2025 19:55	67402	WAKE_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
2/13/2025 19:55	57205	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:56	65602	QVIL_T2	19	23	4	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
2/13/2025 19:56	64801	MONE_T2	4	7	3	0.2	0.17	-0.03	0.1	0.09	0	0	0	0	0	0
2/13/2025 19:56	65603	QVIL_T2	41	40	-1	0.24	0.22	-0.02	0.18	0.18	0	0	0	0	0	0
2/13/2025 19:56	65502	MOJO_T2	0	0	0	0	0	0	-0.99	-0.94	0	0	0	0	0	0
2/13/2025 19:56	58402	MORO_T1	6	0	-6	0.18	0	-0.18	0	0	0	0	0	0	0	0
2/13/2025 19:56	65601	QVIL_T2	47	46	-1	0.22	0.23	0.01	-0.06	-0.07	0	0	0	0	0	0
2/13/2025 19:56	60803	BUCK_T1	18	20	2	0.41	0.57	0.16	0	0	0	0	0	0	0	0
2/13/2025 19:56	58401	MORO_T1	0	1	1	0	0	0	-1	-1.02	1	1	0	600	600	0
2/13/2025 19:56	60801	BUCK_T1	8	63	55	0.15	0.6	0.45	-0.22	-0.24	0	0	0	0	0	0
2/13/2025 19:56	61304	EARL_T1	0	0	0	0	0	0	-0.77	-0.83	1	1	0	600	600	0
2/13/2025 19:56	65604	QVIL_T2	2	2	0	0.6	0.55	-0.05	0.87	0.89	0	0	0	0	0	0
2/13/2025 19:56	67402	WAKE_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
2/13/2025 19:56	64802	MONE_T2	7	6	-1	0.17	0.22	0.05	-0.02	-0.01	0	0	0	0	0	0
2/13/2025 19:56	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:57	59102	WALK_T2	15	17	2	0.19	0.2	0.01	0	0	0	0	0	0	0	0
2/13/2025 19:57	67402	WAKE_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
2/13/2025 19:57	67605	WARW_T1	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
2/13/2025 19:57	59101	WALK_T2	0	0	0	0	0	0	0.82	0.9	1	1	0	600	600	0
2/13/2025 19:57	61304	EARL_T1	0	0	0	0	0	0	-0.77	-0.83	1	1	0	600	600	0
2/13/2025 19:58	60701	BREC_T1	0	1	1	0	0	0	-0.29	-0.31	1	1	0	600	600	0
2/13/2025 19:58	62105	ELAN_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
2/13/2025 19:59	65601	QVIL_T2	47	46	-1	0.22	0.23	0.01	0	0	0	0	0	0	0	0
2/13/2025 19:59	64904	MILL_T1	0	0	0	0	0	0	-0.36	-0.32	0	0	0	0	0	0
2/13/2025 19:59	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 19:59	61304	EARL_T1	0	0	0	0	0	0	-0.77	-0.83	1	1	0	600	600	0
2/13/2025 19:59	65603	QVIL_T2	41	40	-1	0.24	0.22	-0.02	0.18	0.18	0	0	0	0	0	0
2/13/2025 19:59	65602	QVIL_T2	19	23	4	0.38	0.33	-0.05	0.13	0.16	0	0	0	0	0	0
2/13/2025 19:59	65604	QVIL_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
2/13/2025 20:00	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 20:01	64802	MONE_T2	1	9	8	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
2/13/2025 20:01	65601	QVIL_T2	30	55	25	0.17	0.22	0.05	0	0	0	0	0	0	0	0
2/13/2025 20:01	64801	MONE_T2	4	10	6	0.13	0.16	0.03	0	0	0	0	0	0	0	0
2/13/2025 20:01	65602	QVIL_T2	12	25	13	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
2/13/2025 20:01	65604	QVIL_T2	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
2/13/2025 20:01	65603	QVIL_T2	21	39	18	0.21	0.22	0.01	0	0	0	0	0	0	0	0
2/13/2025 20:12	54505	ENOL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/13/2025 20:12	54506	ENOL_T2	0	0	0	0	0	0	0.3	0.33	1	0	-1	600	0	-600
2/13/2025 20:15	63602	LETO_T1	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
2/13/2025 20:15	64101	REFR_T1	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
2/13/2025 20:18	64101	REFR_T1	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
2/13/2025 20:18	16302	ALPA_T2	0	2	2	0	0.1	0.1	-0.44	-0.36	0	0	0	0	0	0
2/13/2025 20:19	64101	REFR_T1	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
2/13/2025 20:20	64101	REFR_T1	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
2/13/2025 20:29	60803	BUCK_T1	20	20	0	0.57	0.57	0	0	0	0	0	0	0	0	0
2/13/2025 20:29	60801	BUCK_T1	61	62	1	0.61	0.55	-0.06	-0.25	-0.22	0	0	0	0	0	0
2/13/2025 20:30	16302	ALPA_T2	0	3	3	0	0.13	0.13	-0.36	-0.48	0	0	0	0	0	0
2/13/2025 20:34	60701	BREC_T1	0	0	0	0	0	0	-0.33	-0.37	1	1	0	600	600	0
2/13/2025 20:41	52502	PROG_T2	0	0	0	0	0	0	0.51	-0.41	0	1	1	0	900	900
2/13/2025 20:42	14801	TREI_T2	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
2/13/2025 21:04	67201	TEHI_T1	0	0	0	0	0	0	-0.54	0.26	1	0	-1	900	0	-900
2/13/2025 21:04	67203	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 21:24	10105	ALLE_T3	18	20	2	1.78	2.15	0.37	0	0	0	0	0	0	0	0
2/13/2025 21:24	10107	ALLE_T3	9	1	-8	0.39	0.9	0.51	0	0	0	0	0	0	0	0
2/13/2025 21:24	10103	ALLE_T3	2	2	0	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
2/13/2025 21:24	10109	ALLE_T3	3	5	2	0.23	0.47	0.24	0	0	0	0	0	0	0	0
2/13/2025 21:24	10101	ALLE_T3	61	59	-2	0.82	0.65	-0.17	0	0	0	0	0	0	0	0
2/13/2025 22:09	57401	SPAN_T1	2	3	1	0.7	0.35	-0.35	-0.99	-1.01	1	1	0	600	600	0
2/13/2025 22:18	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2025 22:56	16302	ALPA_T2	0	2	2	0	0.1	0.1	-0.6	-0.58	0	0	0	0	0	0
2/13/2025 23:53	65202	PRIN_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/13/2025 23:53	65205	PRIN_T1	2	1	-1	1.4	1.6	0.2	0	0	0	0	0	0	0	0
2/14/2025 0:03	57401	SPAN_T1	0	0	0	0	0	0	-0.74	-0.64	1	1	0	600	600	0
2/14/2025 0:43	60701	BREC_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	600	600	0
2/14/2025 0:44	60701	BREC_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	600	600	0
2/14/2025 0:50	46504	LOHA_T1	3	3	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 0:50	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
2/14/2025 1:26	24201	PROV_T3	3	4	1	5.93	4.28	-1.65	-1.53	-1.52	1	1	0	1200	1200	0
2/14/2025 1:26	55002	NEWP_T1	5	5	0	0.62	0.62	0.1	0	0	0	0	0	0	0	0
2/14/2025 1:26	55001	NEWP_T1	0	0	0	0	0	0	-1.09	-1.07	1	1	0	600	600	0
2/14/2025 1:26	24204	PROV_T3	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
2/14/2025 1:51	47401	PENS_T1	0	0	0	0	0	0	0.64	0.61	0	0	0	0	0	0
2/14/2025 2:08	57205	ROSS_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
2/14/2025 2:10	57205	ROSS_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
2/14/2025 2:11	51401	LYKE_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
2/14/2025 2:27	29201	APPE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 2:30	57401	SPAN_T1	0	0	0	0	0	0	-0.64	-0.77	1	1	0	600	600	0
2/14/2025 2:33	64702	LITI_T2	0	0	0	0	0	0	-0.85	-0.84	0	0	0	0	0	0
2/14/2025 3:13	50624	CCTY_T2	2	2	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
2/14/2025 3:13	50623	CCTY_T2	6	6	0	6.6	6.68	0.08	0	0	0	0	0	0	0	0
2/14/2025 3:13	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 3:13	50625	CCTY_T2	3	3	0	7.67	7.8	0.13	0	0	0	0	0	0	0	0
2/14/2025 7:31	23401	HONE_T2	80	24	-56	0.49	0.57	0.08	0.21	0.21	0	0	0	0	0	0
2/14/2025 7:41	24902	WHHA_T1	20	22	2	0.85	1.01	0.16	0.81	0.83	0	0	0	0	0	0
2/14/2025 7:41	24901	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 7:41	45502	DERR_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
2/14/2025 7:41	43201	MVIL_T2	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
2/14/2025 7:41	43202	MVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 7:41	45501	DERR_T2	0	2	2	0	0	0	0.26	0.36	2	2	0	1800	1800	0
2/14/2025 7:53	66703	STRA_T1	0	0	0	0	0	0	-0.4	-0.53	0	0	0	0	0	0
2/14/2025 7:53	52502	PROG_T2	0	0	0	0	0	0	-0.28	0.65	1	0	-1	900	0	-900
2/14/2025 7:53	52503	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 7:54	24902	WHHA_T1	16	20	4	0.86	0.94	0.08	0.83	0.84	0	0	0	0	0	0
2/14/2025 7:54	24901	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 7:55	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 7:57	44301	BEAV_T2	4	9	5	0.25	0.3	0.05	0.38	0.58	2	2	0	1500	1500	0
2/14/2025 7:58	61503	EPET_T1	0	0	0	0	0	0	-0.98	-1.07	0	0	0	0	0	0
2/14/2025 7:59	52403	GRPA_T2	2	6	4	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
2/14/2025 7:59	52404	GRPA_T2	0	1	1	0	0.2	0.2	0.53	0.62	0	0	0	0	0	0
2/14/2025 7:59	52402	GRPA_T2	0	6	6	0	0.65	0.65	0	0	0	0	0	0	0	0
2/14/2025 7:59	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 8:00	20601	GRWO_T2	55	91	36	0.53	0.63	0.1	0.68	0.78	0	0	0	0	0	0
2/14/2025 8:00	20603	GRWO_T2	0	9	9	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 8:01	61502	EPET_T1	0	0	0	0	0	0	-1.92	-1.92	0	0	0	0	0	0
2/14/2025 8:02	44502	HAMI_T2	2	1	-1	2.9	2.4	-0.5	0.06	0.07	0	0	0	0	0	0
2/14/2025 8:02	63403	HONY_T2	0	0	0	0	0	0	0.22	-0.47	0	0	0	0	0	0
2/14/2025 8:03	52404	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/14/2025 8:03	52403	GRPA_T2	5	10	5	0.82	0.18	-0.64	-0.29	-0.19	0	0	0	0	0	0
2/14/2025 8:03	52402	GRPA_T2	4	6	2	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
2/14/2025 8:07	44201	POIN_T1	0	0	0	0	0	0	-1.34	-1.35	2	2	0	2100	2100	0
2/14/2025 8:07	44902	SCOT_T2	1	92	91	0.1	0.13	0.03	-0.87	-0.85	0	0	0	0	0	0
2/14/2025 8:08	52502	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 8:08	44902	SCOT_T2	1	92	91	0.1	0.13	0.03	-0.87	-0.85	0	0	0	0	0	0
2/14/2025 8:08	52503	PROG_T2	0	1	1	0	0	0	-0.35	-0.36	1	1	0	900	900	0
2/14/2025 8:09	44902	SCOT_T2	1	92	91	0.1	0.13	0.03	0	0	0	0	0	0	0	0
2/14/2025 8:09	44901	SCOT_T2	0	0	0	0	0	0	0.07	0.13	0	0	0	0	0	0
2/14/2025 8:11	22001	BOHE_T1	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
2/14/2025 8:11	22003	BOHE_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/14/2025 8:14	45501	DERR_T2	0	2	2	0	0	0	0.37	0.37	2	2	0	1800	1800	0
2/14/2025 8:14	45502	DERR_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
2/14/2025 8:14	16103	BING_T2	0	0	0	0	0	0	-1.48	-1.5	1	1	0	900	900	0
2/14/2025 8:16	44301	BEAV_T2	9	8	-1	0.71	0.25	-0.46	0	0	0	0	0	0	0	0
2/14/2025 8:18	53803	MBRG_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
2/14/2025 8:19	65603	QVIL_T2	0	1	1	0	0.2	0.2	0.44	0.48	0	0	0	0	0	0
2/14/2025 8:19	65602	QVIL_T2	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
2/14/2025 8:19	65604	QVIL_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
2/14/2025 8:19	65601	QVIL_T2	42	46	4	0.2	0.24	0.04	0	0	0	0	0	0	0	0
2/14/2025 8:19	51202	MTON_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 8:20	41902	REED_T1	0	4	4	0	0.4	0.4	0.42	0.48	1	1	0	900	900	0
2/14/2025 8:20	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 8:20	51202	MTON_T2	0	0	0	0	0	0	-2.79	-2.79	3	3	0	3600	3600	0
2/14/2025 8:21	55002	NEWP_T1	1	4	3	0.1	0.2	0.1	-0.14	-0.16	0	0	0	0	0	0
2/14/2025 8:21	66903	SHIL_T2	0	0	0	0	0	0	-1.16	-1.16	0	0	0	0	0	0
2/14/2025 8:21	66902	SHIL_T2	1	0	-1	5.2	0	-5.2	0	0	0	0	0	0	0	0
2/14/2025 8:22	66902	SHIL_T2	1	0	-1	5.2	0	-5.2	0	0	0	0	0	0	0	0
2/14/2025 8:22	51202	MTON_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 8:22	66903	SHIL_T2	0	0	0	0	0	0	-1.16	-1.16	0	0	0	0	0	0
2/14/2025 8:23	66902	SHIL_T2	1	0	-1	5.2	0	-5.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/14/2025 8:23	41902	REED_T1	0	4	4	0	0.4	0.4	0.48	0.45	1	1	0	900	900	0
2/14/2025 8:23	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 8:23	66703	STRA_T1	0	0	0	0	0	0	-0.5	-0.58	0	0	0	0	0	0
2/14/2025 8:23	66903	SHIL_T2	0	0	0	0	0	0	-1.16	-1.16	0	0	0	0	0	0
2/14/2025 8:25	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 8:25	66902	SHIL_T2	1	0	-1	5.2	0	-5.2	0	0	0	0	0	0	0	0
2/14/2025 8:27	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 8:28	61001	DONV_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
2/14/2025 8:29	53502	EVIL_T2	1	1	0	2.4	2	-0.4	0	0	0	0	0	0	0	0
2/14/2025 8:29	53501	EVIL_T2	2	2	0	0.65	0.8	0.15	-1.15	-1.17	2	2	0	1200	1200	0
2/14/2025 8:30	52404	GRPA_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
2/14/2025 8:30	61001	DONV_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
2/14/2025 8:30	52402	GRPA_T2	4	5	1	0.48	0.85	0.37	0	0	0	0	0	0	0	0
2/14/2025 8:30	52403	GRPA_T2	6	9	3	0.18	0.66	0.48	-0.35	-0.28	0	0	0	0	0	0
2/14/2025 8:35	65601	QVIL_T2	46	67	21	0.24	0.24	0	0	0	0	0	0	0	0	0
2/14/2025 8:35	65603	QVIL_T2	1	31	30	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
2/14/2025 8:35	65602	QVIL_T2	2	23	21	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
2/14/2025 8:35	57704	PAXT_T2	0	0	0	0	0	0	-0.12	-0.2	1	1	0	900	900	0
2/14/2025 8:35	65604	QVIL_T2	2	3	1	0.35	0.53	0.18	0	0	0	0	0	0	0	0
2/14/2025 8:38	52503	PROG_T2	0	0	0	0	0	0	-0.4	-0.39	1	1	0	900	900	0
2/14/2025 8:38	13103	NHAM_T2	0	0	0	0	0	0	-1.6	-1.61	1	1	0	600	600	0
2/14/2025 8:39	42701	AUGU_T1	1	2	1	1	0.85	-0.15	0	0	0	0	0	0	0	0
2/14/2025 8:39	29402	BELT_T1	1	1	0	6.7	7	0.3	0	0	0	0	0	0	0	0
2/14/2025 8:39	29401	BELT_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 8:40	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 8:40	46004	BERW_T2	3	3	0	1.03	1.15	0.12	-0.61	-0.59	0	0	0	0	0	0
2/14/2025 8:41	46004	BERW_T2	3	3	0	1.03	1.15	0.12	-0.61	-0.59	0	0	0	0	0	0
2/14/2025 8:41	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 8:42	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 8:42	46004	BERW_T2	3	3	0	1.03	1.15	0.12	-0.61	-0.59	0	0	0	0	0	0
2/14/2025 8:44	11104	EGYP_T1	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
2/14/2025 8:44	52404	GRPA_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
2/14/2025 8:44	52402	GRPA_T2	4	5	1	0.48	0.85	0.37	0	0	0	0	0	0	0	0
2/14/2025 8:44	41801	GOCI_T2	0	23	23	0	0.16	0.16	0	0	0	0	0	0	0	0
2/14/2025 8:44	52403	GRPA_T2	6	9	3	0.18	0.66	0.48	-0.28	-0.32	0	0	0	0	0	0
2/14/2025 8:44	41802	GOCI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 8:45	25503	MADI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 8:45	25501	MADI_T1	67	52	-15	0.4	0.42	0.02	0	0	1	1	0	600	600	0
2/14/2025 8:45	41802	GOCI_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 8:45	41801	GOCI_T2	23	1	-22	0.16	0.6	0.44	0	0	0	0	0	0	0	0
2/14/2025 8:46	11104	EGYP_T1	0	0	0	0	0	0	0.44	0.41	0	0	0	0	0	0
2/14/2025 8:46	11103	EGYP_T1	0	1	1	0	0	0	-0.82	-0.8	0	0	0	0	0	0
2/14/2025 8:47	52403	GRPA_T2	6	24	18	0.62	0.55	-0.07	0	0	0	0	0	0	0	0
2/14/2025 8:47	52402	GRPA_T2	5	3	-2	0.4	0.4	0	0	0	0	0	0	0	0	0
2/14/2025 8:47	52404	GRPA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/14/2025 8:47	64903	MILL_T2	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
2/14/2025 8:47	52401	GRPA_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
2/14/2025 8:49	64901	MILL_T1	17	75	58	0.14	0.19	0.05	0	0	0	0	0	0	0	0
2/14/2025 8:49	64904	MILL_T1	1	3	2	0.1	0.27	0.17	-0.34	-0.26	0	0	0	0	0	0
2/14/2025 8:50	64101	REFR_T1	0	1	1	0	0	0	0.03	0.02	0	0	0	0	0	0
2/14/2025 8:52	41902	REED_T1	1	2	1	0.4	0.3	-0.1	0.43	0.47	1	1	0	900	900	0
2/14/2025 8:52	13303	ORVI_T1	0	0	0	0	0	0	1.07	1.08	0	0	0	0	0	0
2/14/2025 8:56	45501	DERR_T2	0	0	0	0	0	0	0.35	0.27	2	2	0	1800	1800	0
2/14/2025 8:58	10705	CATA_T2	0	0	0	0	0	0	-0.86	-0.85	1	1	0	900	900	0
2/14/2025 8:58	10701	CATA_T2	1	1	0	1.9	0	-1.9	0	0	0	0	0	0	0	0
2/14/2025 8:59	61001	DONV_T1	0	1	1	0	0.3	0.3	-0.15	-0.22	0	0	0	0	0	0
2/14/2025 9:00	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 9:00	10705	CATA_T2	0	0	0	0	0	0	-0.86	-0.85	1	1	0	900	900	0
2/14/2025 9:00	52502	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
2/14/2025 9:00	67502	WEWI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/14/2025 9:00	10701	CATA_T2	1	0	-1	2.1	0	-2.1	0	0	0	0	0	0	0	0
2/14/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
2/14/2025 9:00	57401	SPAN_T1	0	0	0	0	0	0	-0.92	-0.91	1	1	0	600	600	0
2/14/2025 9:00	52503	PROG_T2	0	0	0	0	0	0	-0.39	-0.39	1	1	0	900	900	0
2/14/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.14	0.1	0	0	0	0	0	0
2/14/2025 9:00	57205	ROSS_T1	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
2/14/2025 9:00	23403	HONE_T1	17	0	-17	0.15	0	-0.15	-0.63	-0.74	0	0	0	0	0	0
2/14/2025 9:00	64101	REFR_T1	0	1	1	0	0.5	0.5	0.04	0.08	0	0	0	0	0	0
2/14/2025 9:00	23404	HONE_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 9:00	41801	GOCI_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/14/2025 9:01	47104	MARL_T1	0	0	0	0	0	0	-2.14	-2.2	0	0	0	0	0	0
2/14/2025 9:01	47101	MARL_T1	13	33	20	0.65	1.01	0.36	0	0	0	0	0	0	0	0
2/14/2025 9:05	64101	REFR_T1	0	1	1	0	0.5	0.5	0.02	0.04	0	0	0	0	0	0
2/14/2025 9:06	64101	REFR_T1	0	1	1	0	0.5	0.5	0.08	0.06	0	0	0	0	0	0
2/14/2025 9:07	64101	REFR_T1	0	1	1	0	0.5	0.5	0.08	0.06	0	0	0	0	0	0
2/14/2025 9:07	66703	STRA_T1	0	1	1	0	0.9	0.9	-0.67	-0.62	0	0	0	0	0	0
2/14/2025 9:08	24901	WHHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 9:08	64101	REFR_T1	0	1	1	0	0.5	0.5	0.08	0.06	0	0	0	0	0	0
2/14/2025 9:08	13303	ORVI_T1	0	0	0	0	0	0	1.08	1.11	0	0	0	0	0	0
2/14/2025 9:08	24902	WHHA_T1	3	5	2	0.87	0.53	-0.34	0.85	0.95	0	0	0	0	0	0
2/14/2025 9:09	66703	STRA_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
2/14/2025 9:09	67605	WARW_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
2/14/2025 9:09	29402	BELT_T1	1	1	0	7	7.5	0.5	0	0	0	0	0	0	0	0
2/14/2025 9:09	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 9:10	24901	WHHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 9:10	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 9:10	24902	WHHA_T1	3	5	2	0.87	0.53	-0.34	0.85	0.95	0	0	0	0	0	0
2/14/2025 9:10	52503	PROG_T2	0	0	0	0	0	0	-0.39	-0.43	1	1	0	900	900	0
2/14/2025 9:10	67605	WARW_T1	1	2	1	0.1	0.35	0.25	-0.74	-0.79	0	0	0	0	0	0
2/14/2025 9:10	45501	DERR_T2	0	4	4	0	0	0	0.27	0.37	2	2	0	1800	1800	0
2/14/2025 9:10	44601	SALE_T2	0	0	0	0	0	0	0.06	0.16	0	0	0	0	0	0
2/14/2025 9:10	52502	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 9:10	66703	STRA_T1	0	1	1	0	0.9	0.9	-0.67	-0.62	0	0	0	0	0	0
2/14/2025 9:11	67603	WARW_T1	0	0	0	0	0	0	0.16	0.19	0	0	0	0	0	0
2/14/2025 9:11	67605	WARW_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
2/14/2025 9:11	46206	DANV_T2	28	15	-13	0.61	0.37	-0.24	3.17	3.11	1	1	0	1200	1200	0
2/14/2025 9:11	29402	BELT_T1	1	1	0	7	7.5	0.5	0	0	0	0	0	0	0	0
2/14/2025 9:11	46204	DANV_T2	20	22	2	0.3	0.19	-0.11	0	0	0	0	0	0	0	0
2/14/2025 9:11	46203	DANV_T2	21	17	-4	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
2/14/2025 9:11	61001	DONV_T1	0	1	1	0	0.5	0.5	-0.44	-0.36	0	0	0	0	0	0
2/14/2025 9:12	46204	DANV_T2	20	22	2	0.3	0.19	-0.11	0	0	0	0	0	0	0	0
2/14/2025 9:12	46203	DANV_T2	21	17	-4	0.33	0.3	-0.03	-0.69	-0.71	0	0	0	0	0	0
2/14/2025 9:12	16101	BING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/14/2025 9:12	16103	BING_T2	0	1	1	0	0	0	-1.51	-1.51	1	1	0	900	900	0
2/14/2025 9:12	46206	DANV_T2	28	15	-13	0.61	0.37	-0.24	0	0	0	0	0	0	0	0
2/14/2025 9:13	29402	BELT_T1	1	1	0	7	7.5	0.5	0	0	0	0	0	0	0	0
2/14/2025 9:13	46204	DANV_T2	20	22	2	0.3	0.19	-0.11	0	0	0	0	0	0	0	0
2/14/2025 9:13	40802	EXCH_T2	2	6	4	0.1	0.25	0.15	-0.71	-0.45	0	0	0	0	0	0
2/14/2025 9:13	46206	DANV_T2	28	15	-13	0.61	0.37	-0.24	0	0	0	0	0	0	0	0
2/14/2025 9:13	46203	DANV_T2	21	17	-4	0.33	0.3	-0.03	-2.77	-2.86	0	0	0	0	0	0
2/14/2025 9:13	40801	EXCH_T2	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0	0
2/14/2025 9:14	24101	EHAZ_T1	40	54	14	1.09	0.84	-0.25	0	0	0	0	0	0	0	0
2/14/2025 9:14	24104	EHAZ_T1	18	20	2	0.18	0.14	-0.04	-2.16	-0.82	1	1	0	1200	1200	0
2/14/2025 9:14	24105	EHAZ_T1	4	4	0	6.3	6.63	0.33	0	0	0	0	0	0	0	0
2/14/2025 9:15	61001	DONV_T1	1	1	0	0.3	0.5	0.2	-0.22	-0.18	0	0	0	0	0	0
2/14/2025 9:15	63501	HEID_TBK1-2	24	38	14	0.21	0.28	0.07	-0.25	-0.15	1	1	0	900	900	0
2/14/2025 9:16	46204	DANV_T2	11	60	49	0.19	0.25	0.06	0	0	0	0	0	0	0	0
2/14/2025 9:16	46201	DANV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 9:16	25501	MADI_T1	41	34	-7	0.46	0.56	0.1	0	0	1	1	0	600	600	0
2/14/2025 9:16	40802	EXCH_T2	6	4	-2	0.18	0.25	0.07	-0.71	-0.45	0	0	0	0	0	0
2/14/2025 9:16	46203	DANV_T2	10	21	11	0.26	0.37	0.11	0	0	0	0	0	0	0	0
2/14/2025 9:16	46206	DANV_T2	15	21	6	0.5	0.26	-0.24	3.17	3.11	1	1	0	1200	1200	0
2/14/2025 9:16	63501	HEID_TBK1-2	24	38	14	0.21	0.28	0.07	-0.25	-0.15	1	1	0	900	900	0
2/14/2025 9:16	25503	MADI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/14/2025 9:16	23301	JEFF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 9:16	40801	EXCH_T2	2	5	3	0.2	0.2	0	0	0	0	0	0	0	0	0
2/14/2025 9:16	23401	HONE_T2	13	10	-3	0.49	1.6	1.11	0.14	0.22	0	0	0	0	0	0
2/14/2025 9:17	63501	HEID_TBK1-2	24	38	14	0.21	0.28	0.07	-0.5	-0.3	2	2	0	1800	1800	0
2/14/2025 9:17	54505	ENOL_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
2/14/2025 9:17	54503	ENOL_T2	0	0	0	0	0	0	-1.02	-1.02	1	1	0	600	600	0
2/14/2025 9:17	40801	EXCH_T2	2	5	3	0.2	0.2	0	0	0	0	0	0	0	0	0
2/14/2025 9:17	40802	EXCH_T2	6	4	-2	0.18	0.25	0.07	-0.71	-0.45	0	0	0	0	0	0
2/14/2025 9:18	63501	HEID_TBK1-2	24	38	14	0.21	0.28	0.07	-0.5	-0.3	2	2	0	1800	1800	0
2/14/2025 9:18	47901	HROG_T1	0	0	0	0	0	0	1.79	1.79	0	0	0	0	0	0
2/14/2025 9:19	65702	RVIL_T2	0	0	0	0	0	0	-1.27	-1.31	1	1	0	600	600	0
2/14/2025 9:19	64903	MILL_T2	0	0	0	0	0	0	0.4	0.36	0	0	0	0	0	0
2/14/2025 9:20	25402	LAHA_T2	360	334	-26	1.62	1.02	-0.6	-0.51	-0.5	0	0	0	0	0	0
2/14/2025 9:21	64101	REFR_T1	0	1	1	0	0.5	0.5	0.03	0.02	0	0	0	0	0	0
2/14/2025 9:21	41902	REED_T1	1	0	-1	0.5	0	-0.5	0.44	0.36	1	1	0	900	900	0
2/14/2025 9:21	65702	RVIL_T2	0	0	0	0	0	0	-1.31	-1.35	1	1	0	600	600	0
2/14/2025 9:22	25801	SUTR_T2	2	2	0	9.55	9.8	0.25	-0.57	-0.58	0	0	0	0	0	0
2/14/2025 9:22	41902	REED_T1	1	0	-1	0.5	0	-0.5	0.44	0.36	1	1	0	900	900	0
2/14/2025 9:22	65702	RVIL_T2	0	0	0	0	0	0	-1.31	-1.35	1	1	0	600	600	0
2/14/2025 9:23	64101	REFR_T1	0	1	1	0	0.5	0.5	0.03	0.02	0	0	0	0	0	0
2/14/2025 9:23	41902	REED_T1	1	0	-1	0.5	0	-0.5	0.44	0.36	1	1	0	900	900	0
2/14/2025 9:24	14801	TREI_T2	1	1	0	0.5	0.4	-0.1	0.65	0.65	0	0	0	0	0	0
2/14/2025 9:26	14801	TREI_T2	1	1	0	0.5	0.4	-0.1	0.65	0.65	0	0	0	0	0	0
2/14/2025 9:27	45501	DERR_T2	0	4	4	0	0.15	0.15	0.37	0.35	2	2	0	1800	1800	0
2/14/2025 9:27	46004	BERW_T2	2	1	-1	0.55	0.2	-0.35	-0.58	-0.58	0	0	0	0	0	0
2/14/2025 9:27	46003	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 9:28	10602	BLGL_T2	1	1	0	8	8.9	0.9	0.43	0.43	0	0	0	0	0	0
2/14/2025 9:28	54502	ENOL_T2	0	0	0	0	0	0	-2.07	-1.97	1	1	0	600	600	0
2/14/2025 9:28	54505	ENOL_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
2/14/2025 9:30	63804	HEMP_T1	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
2/14/2025 9:30	63802	HEMP_T1	0	1	1	0	0.1	0.1	0.23	0.31	0	0	0	0	0	0
2/14/2025 9:30	63801	HEMP_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 9:30	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 9:31	52403	GRPA_T2	37	78	41	0.65	0.55	-0.1	-0.47	-0.38	0	0	0	0	0	0
2/14/2025 9:31	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 9:31	63802	HEMP_T1	0	1	1	0	0.1	0.1	0.23	0.31	0	0	0	0	0	0
2/14/2025 9:31	52404	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 9:31	63801	HEMP_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/14/2025 9:31	63804	HEMP_T1	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
2/14/2025 9:31	52401	GRPA_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
2/14/2025 9:31	52402	GRPA_T2	4	7	3	0.23	0.44	0.21	0	0	0	0	0	0	0	0
2/14/2025 9:33	52403	GRPA_T2	37	78	41	0.65	0.55	-0.1	-0.47	-0.38	0	0	0	0	0	0
2/14/2025 9:33	52402	GRPA_T2	4	7	3	0.23	0.44	0.21	0	0	0	0	0	0	0	0
2/14/2025 9:33	61304	EARL_T1	1	1	0	0.1	0.3	0.2	-0.64	-0.61	1	1	0	600	600	0
2/14/2025 9:33	61302	EARL_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/14/2025 9:33	52404	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 9:33	52401	GRPA_T2	0	2	2	0	0.4	0.4	-0.55	-0.56	0	0	0	0	0	0
2/14/2025 9:34	55002	NEWP_T1	3	6	3	0.6	0.75	0.15	-0.14	-0.16	0	0	0	0	0	0
2/14/2025 9:35	55002	NEWP_T1	3	6	3	0.6	0.75	0.15	0	0	0	0	0	0	0	0
2/14/2025 9:35	55001	NEWP_T1	0	0	0	0	0	0	-0.94	-0.91	1	1	0	600	600	0
2/14/2025 9:36	54701	NEBL_T1	8	8	0	0.71	0.54	-0.17	0	0	0	0	0	0	0	0
2/14/2025 9:36	52403	GRPA_T2	37	78	41	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
2/14/2025 9:36	52402	GRPA_T2	4	7	3	0.23	0.44	0.21	0	0	0	0	0	0	0	0
2/14/2025 9:36	52401	GRPA_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
2/14/2025 9:36	64101	REFR_T1	1	3	2	0.5	0.47	-0.03	0.02	-0.01	0	0	0	0	0	0
2/14/2025 9:36	52404	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 9:37	55002	NEWP_T1	3	6	3	0.6	0.75	0.15	0	0	0	0	0	0	0	0
2/14/2025 9:37	55001	NEWP_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	600	600	0
2/14/2025 9:38	54701	NEBL_T1	8	8	0	0.71	0.54	-0.17	0	0	0	0	0	0	0	0
2/14/2025 9:38	64101	REFR_T1	1	3	2	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
2/14/2025 9:39	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 9:39	57401	SPAN_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/14/2025 9:40	57205	ROSS_T1	0	1	1	0	0.2	0.2	0.26	0.25	0	0	0	0	0	0
2/14/2025 9:41	44802	EDAN_T2	0	0	0	0	0	0	-2.11	-2.11	0	0	0	0	0	0
2/14/2025 9:42	44802	EDAN_T2	0	0	0	0	0	0	-6.32	-6.32	0	0	0	0	0	0
2/14/2025 9:42	10805	CHHI_T2	3	4	1	2.8	2.2	-0.6	-0.97	-1.01	1	1	0	600	600	0
2/14/2025 9:42	40101	HUNT_T2	59	49	-10	0.94	1.03	0.09	-0.45	-0.48	0	0	0	0	0	0
2/14/2025 9:43	29402	BELT_T1	1	1	0	7.5	7.5	0	0	0	0	0	0	0	0	0
2/14/2025 9:43	29401	BELT_T1	0	2	2	0	0.15	0.15	0	0	1	1	0	900	900	0
2/14/2025 9:43	64904	MILL_T1	0	0	0	0	0	0	0.64	0.7	0	0	0	0	0	0
2/14/2025 9:44	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 9:44	61301	EARL_T1	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
2/14/2025 9:44	61304	EARL_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/14/2025 9:44	44801	EDAN_T2	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
2/14/2025 9:44	63801	HEMP_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 9:44	63803	HEMP_T1	0	1	1	0	0.1	0.1	0.08	0.06	0	0	0	0	0	0
2/14/2025 9:44	17805	GILB_T2	0	1	1	0	0	0	0.26	0.24	0	0	0	0	0	0
2/14/2025 9:44	10801	CHHI_T1	0	3	3	0	0.17	0.17	-1.22	-1.17	2	2	0	1500	1500	0
2/14/2025 9:44	17804	GILB_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
2/14/2025 9:44	41601	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/14/2025 9:44	63804	HEMP_T1	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
2/14/2025 9:44	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 9:44	61302	EARL_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/14/2025 9:44	44802	EDAN_T2	0	0	0	0	0	0	-4.21	-4.21	0	0	0	0	0	0
2/14/2025 9:45	61304	EARL_T1	1	1	0	0.2	0.3	0.1	-1.22	-1.22	2	2	0	1200	1200	0
2/14/2025 9:45	61302	EARL_T1	2	3	1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
2/14/2025 9:45	53502	EVIL_T2	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
2/14/2025 9:45	20601	GRWO_T2	6	6	0	0.68	0.75	0.07	0.6	0.56	0	0	0	0	0	0
2/14/2025 9:45	53501	EVIL_T2	2	1	-1	0.5	1	0.5	-1.17	-1.19	2	2	0	1200	1200	0
2/14/2025 9:47	44502	HAMI_T2	1	1	0	2.7	2.6	-0.1	0.06	0.06	0	0	0	0	0	0
2/14/2025 9:47	61304	EARL_T1	1	1	0	0.2	0.3	0.1	-0.61	-0.61	1	1	0	600	600	0
2/14/2025 9:47	44802	EDAN_T2	0	0	0	0	0	0	-2.11	-2.11	0	0	0	0	0	0
2/14/2025 9:47	53502	EVIL_T2	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
2/14/2025 9:47	44505	HAMI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/14/2025 9:47	61302	EARL_T1	2	3	1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
2/14/2025 9:47	53501	EVIL_T2	2	1	-1	0.5	1	0.5	-2.33	-2.37	4	4	0	2400	2400	0
2/14/2025 9:48	53501	EVIL_T2	2	1	-1	0.5	1	0.5	-2.33	-2.37	4	4	0	2400	2400	0
2/14/2025 9:48	53502	EVIL_T2	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
2/14/2025 9:49	53502	EVIL_T2	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
2/14/2025 9:49	59101	WALK_T2	1	3	2	0.4	0.4	0	1.58	1.63	0	0	0	0	0	0
2/14/2025 9:49	53501	EVIL_T2	2	1	-1	0.5	1	0.5	-1.17	-1.19	2	2	0	1200	1200	0
2/14/2025 9:49	59102	WALK_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/14/2025 9:50	59102	WALK_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/14/2025 9:50	59101	WALK_T2	1	3	2	0.4	0.4	0	1.58	1.63	0	0	0	0	0	0
2/14/2025 9:50	65502	MOJO_T2	5	0	-5	0.1	0	-0.1	-1.46	-0.58	1	0	-1	900	0	-900
2/14/2025 9:51	59101	WALK_T2	1	3	2	0.4	0.4	0	1.58	1.63	0	0	0	0	0	0
2/14/2025 9:51	59102	WALK_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/14/2025 9:51	65502	MOJO_T2	5	0	-5	0.1	0	-0.1	-0.58	-0.51	1	0	-1	900	0	-900
2/14/2025 9:51	64902	MILL_T2	0	0	0	0	0	0	-0.68	-0.72	1	1	0	900	900	0
2/14/2025 9:52	59101	WALK_T2	1	3	2	0.4	0.4	0	1.63	1.6	0	0	0	0	0	0
2/14/2025 9:52	17805	GILB_T2	0	1	1	0	0	0	0.24	0.21	0	0	0	0	0	0
2/14/2025 9:52	44901	SCOT_T2	17	4	-13	0.2	0.65	0.45	0	0	0	0	0	0	0	0
2/14/2025 9:52	17804	GILB_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
2/14/2025 9:52	59102	WALK_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/14/2025 9:52	41902	REED_T1	0	0	0	0	0	0	0.44	0.37	1	1	0	900	900	0
2/14/2025 9:52	44902	SCOT_T2	204	207	3	0.2	0.24	0.04	-0.89	-0.85	0	0	0	0	0	0
2/14/2025 9:53	44902	SCOT_T2	204	207	3	0.2	0.24	0.04	-0.89	-0.85	0	0	0	0	0	0
2/14/2025 9:53	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 9:53	67605	WARW_T1	3	22	19	0.33	0.34	0.01	0	0	0	0	0	0	0	0
2/14/2025 9:53	44901	SCOT_T2	17	4	-13	0.2	0.65	0.45	0.14	0.11	0	0	0	0	0	0
2/14/2025 9:54	46003	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 9:54	46002	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 9:54	44902	SCOT_T2	204	207	3	0.2	0.24	0.04	0	0	0	0	0	0	0	0
2/14/2025 9:54	46004	BERW_T2	1	3	2	0.2	0	-0.2	-0.55	-0.55	0	0	0	0	0	0
2/14/2025 9:54	44901	SCOT_T2	17	4	-13	0.2	0.65	0.45	0.14	0.11	0	0	0	0	0	0
2/14/2025 9:55	57403	SPAN_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
2/14/2025 9:55	57401	SPAN_T1	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
2/14/2025 9:56	46003	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 9:56	46002	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 9:56	46004	BERW_T2	1	3	2	0.2	0	-0.2	-0.55	-0.55	0	0	0	0	0	0
2/14/2025 9:56	16302	ALPA_T2	2	3	1	0.3	0.2	-0.1	-0.62	-0.66	0	0	0	0	0	0
2/14/2025 9:56	44801	EDAN_T2	0	0	0	0	0	0	-0.34	-0.31	0	0	0	0	0	0
2/14/2025 9:57	44801	EDAN_T2	0	0	0	0	0	0	-0.34	-0.31	0	0	0	0	0	0
2/14/2025 9:57	42701	AUGU_T1	3	1	-2	0.43	1.4	0.97	0	0	0	0	0	0	0	0
2/14/2025 9:57	46002	BERW_T2	0	1	1	0	0	0	-0.56	-0.55	1	1	0	900	900	0
2/14/2025 9:57	46004	BERW_T2	1	3	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/14/2025 9:57	46003	BERW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 9:58	16302	ALPA_T2	2	3	1	0.3	0.2	-0.1	-0.62	-0.66	0	0	0	0	0	0
2/14/2025 9:58	42701	AUGU_T1	3	1	-2	0.43	1.4	0.97	0	0	2	2	0	1800	1800	0
2/14/2025 10:00	16302	ALPA_T2	0	12	12	0	0.29	0.29	-0.31	-0.33	0	0	0	0	0	0
2/14/2025 10:00	40802	EXCH_T2	2	1	-1	0.45	0.6	0.15	0	0	0	0	0	0	0	0
2/14/2025 10:00	52403	GRPA_T2	78	77	-1	0.55	0.63	0.08	0	0	0	0	0	0	0	0
2/14/2025 10:00	52401	GRPA_T2	2	3	1	0.4	0.4	0	-0.56	-0.55	0	0	0	0	0	0
2/14/2025 10:00	40801	EXCH_T2	5	3	-2	0.2	0.2	0	-0.43	-0.39	1	1	0	1200	1200	0
2/14/2025 10:00	52404	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/14/2025 10:00	52402	GRPA_T2	7	10	3	0.4	0.69	0.29	0	0	0	0	0	0	0	0
2/14/2025 10:02	61505	EPET_T1	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
2/14/2025 10:04	52402	GRPA_T2	7	10	3	0.4	0.69	0.29	0	0	0	0	0	0	0	0
2/14/2025 10:04	52403	GRPA_T2	78	77	-1	0.55	0.63	0.08	-0.47	-0.45	0	0	0	0	0	0
2/14/2025 10:04	52401	GRPA_T2	2	3	1	0.4	0.4	0	0	0	0	0	0	0	0	0
2/14/2025 10:04	52404	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/14/2025 10:05	52404	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/14/2025 10:05	44901	SCOT_T2	1	39	38	0.2	0.29	0.09	0.14	0.11	0	0	0	0	0	0
2/14/2025 10:05	44902	SCOT_T2	195	388	193	0.23	0.27	0.04	0	0	0	0	0	0	0	0
2/14/2025 10:05	52401	GRPA_T2	2	3	1	0.4	0.4	0	0	0	0	0	0	0	0	0
2/14/2025 10:05	52403	GRPA_T2	78	77	-1	0.55	0.63	0.08	-0.47	-0.45	0	0	0	0	0	0
2/14/2025 10:05	52402	GRPA_T2	7	10	3	0.4	0.69	0.29	0	0	0	0	0	0	0	0
2/14/2025 10:05	59102	WALK_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/14/2025 10:05	59101	WALK_T2	2	4	2	0.4	0.53	0.13	0	0	0	0	0	0	0	0
2/14/2025 10:06	55002	NEWP_T1	4	5	1	0.98	0.8	-0.18	-0.18	-0.19	0	0	0	0	0	0
2/14/2025 10:07	59101	WALK_T2	2	4	2	0.4	0.53	0.13	1.6	1.45	0	0	0	0	0	0
2/14/2025 10:07	59102	WALK_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/14/2025 10:08	13103	NHAM_T2	0	0	0	0	0	0	-1.6	-1.6	1	1	0	600	600	0
2/14/2025 10:08	13105	NHAM_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 10:09	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
2/14/2025 10:11	57401	SPAN_T1	2	3	1	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
2/14/2025 10:11	57403	SPAN_T1	0	1	1	0	0.1	0.1	0.18	0.16	0	0	0	0	0	0
2/14/2025 10:12	16101	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/14/2025 10:12	16103	BING_T2	0	0	0	0	0	0	-1.53	-1.57	1	1	0	900	900	0
2/14/2025 10:13	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/14/2025 10:13	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/14/2025 10:13	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 10:13	67605	WARW_T1	3	25	22	0.4	0.4	0	-0.88	-0.88	0	0	0	0	0	0
2/14/2025 10:14	54502	ENOL_T2	0	1	1	0	0.3	0.3	-2.01	-1.91	1	1	0	600	600	0
2/14/2025 10:14	54505	ENOL_T2	1	1	0	0.6	0.8	0.2	-1.15	-1.15	1	1	0	600	600	0
2/14/2025 10:15	54505	ENOL_T2	1	2	1	0.8	0.4	-0.4	-1.15	-1.15	1	1	0	600	600	0
2/14/2025 10:15	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	-2.01	-1.91	1	1	0	600	600	0
2/14/2025 10:16	54505	ENOL_T2	1	2	1	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
2/14/2025 10:16	54501	ENOL_T2	0	0	0	0	0	0	-0.51	-0.51	1	1	0	600	600	0
2/14/2025 10:16	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/14/2025 10:16	61304	EARL_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
2/14/2025 10:16	61302	EARL_T1	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
2/14/2025 10:16	61305	EARL_T1	0	0	0	0	0	0	0.37	0.37	1	1	0	900	900	0
2/14/2025 10:17	54501	ENOL_T2	0	0	0	0	0	0	-0.51	-0.51	1	1	0	600	600	0
2/14/2025 10:17	54505	ENOL_T2	1	2	1	0.8	0.4	-0.4	-1.15	-1.15	1	1	0	600	600	0
2/14/2025 10:17	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/14/2025 10:18	52401	GRPA_T2	2	3	1	0.55	0.37	-0.18	0	0	0	0	0	0	0	0
2/14/2025 10:18	54501	ENOL_T2	0	0	0	0	0	0	-0.51	-0.51	1	1	0	600	600	0
2/14/2025 10:18	52402	GRPA_T2	6	10	4	0.47	0.73	0.26	0	0	0	0	0	0	0	0
2/14/2025 10:18	52403	GRPA_T2	73	58	-15	0.66	0.65	-0.01	0	0	0	0	0	0	0	0
2/14/2025 10:18	54505	ENOL_T2	1	2	1	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
2/14/2025 10:18	52404	GRPA_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
2/14/2025 10:18	54502	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/14/2025 10:20	52401	GRPA_T2	2	3	1	0.55	0.37	-0.18	0	0	0	0	0	0	0	0
2/14/2025 10:20	52403	GRPA_T2	73	58	-15	0.66	0.65	-0.01	0	0	0	0	0	0	0	0
2/14/2025 10:20	58401	MORO_T1	1	1	0	0.1	0.2	0.1	-0.87	-0.88	1	1	0	600	600	0
2/14/2025 10:20	52404	GRPA_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
2/14/2025 10:20	64101	REFR_T1	3	4	1	0.43	0.58	0.15	-0.02	-0.01	0	0	0	0	0	0
2/14/2025 10:20	52402	GRPA_T2	6	10	4	0.47	0.73	0.26	0	0	0	0	0	0	0	0
2/14/2025 10:21	64101	REFR_T1	3	4	1	0.43	0.58	0.15	-0.02	0.02	0	0	0	0	0	0
2/14/2025 10:22	64101	REFR_T1	3	4	1	0.43	0.58	0.15	-0.01	0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/14/2025 10:22	55002	NEWP_T1	5	4	-1	0.72	0.73	0.01	-0.17	-0.16	0	0	0	0	0	0
2/14/2025 10:22	58401	MORO_T1	1	1	0	0.1	0.2	0.1	-1.75	-1.79	2	2	0	1200	1200	0
2/14/2025 10:23	54601	SUMM_T2	5	6	1	0.4	0.48	0.08	0	0	0	0	0	0	0	0
2/14/2025 10:23	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 10:23	54603	SUMM_T2	0	0	0	0	0	0	-0.28	-0.38	1	1	0	900	900	0
2/14/2025 10:23	64101	REFR_T1	3	4	1	0.43	0.58	0.15	-0.01	0.01	0	0	0	0	0	0
2/14/2025 10:24	14802	TREI_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
2/14/2025 10:24	64101	REFR_T1	3	4	1	0.43	0.58	0.15	-0.01	0.01	0	0	0	0	0	0
2/14/2025 10:24	14801	TREI_T2	3	4	1	0.3	0.33	0.03	0.6	0.61	0	0	0	0	0	0
2/14/2025 10:25	64101	REFR_T1	3	4	1	0.43	0.58	0.15	-0.02	0.02	0	0	0	0	0	0
2/14/2025 10:25	54601	SUMM_T2	5	6	1	0.4	0.48	0.08	0	0	0	0	0	0	0	0
2/14/2025 10:25	54603	SUMM_T2	0	0	0	0	0	0	-0.28	-0.38	1	1	0	900	900	0
2/14/2025 10:26	10705	CATA_T2	1	2	1	1.4	1.2	-0.2	-0.81	-0.81	1	1	0	900	900	0
2/14/2025 10:26	54601	SUMM_T2	5	6	1	0.4	0.48	0.08	-1.74	-1.75	2	2	0	2100	2100	0
2/14/2025 10:26	10703	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/14/2025 10:28	10705	CATA_T2	1	2	1	1.4	1.2	-0.2	-0.81	-0.81	1	1	0	900	900	0
2/14/2025 10:28	45501	DERR_T2	0	0	0	0	0	0	0.27	0.26	2	2	0	1800	1800	0
2/14/2025 10:28	10703	CATA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/14/2025 10:29	53902	HALI_T2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
2/14/2025 10:29	53901	HALI_T2	1	1	0	0.9	0.8	-0.1	-2.73	-2.72	0	0	0	0	0	0
2/14/2025 10:29	20602	GRWO_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 10:29	20601	GRWO_T2	3	2	-1	0.63	1.2	0.57	0.63	0.65	0	0	0	0	0	0
2/14/2025 10:29	53903	HALI_T2	5	6	1	0.86	0.93	0.07	0	0	0	0	0	0	0	0
2/14/2025 10:30	45501	DERR_T2	0	0	0	0	0	0	0.27	0.26	2	2	0	1800	1800	0
2/14/2025 10:30	10703	CATA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 10:30	10705	CATA_T2	1	2	1	1.7	1.2	-0.5	-0.81	-0.81	1	1	0	900	900	0
2/14/2025 10:32	53903	HALI_T2	6	8	2	0.83	0.78	-0.05	0	0	0	0	0	0	0	0
2/14/2025 10:32	53902	HALI_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 10:32	53901	HALI_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
2/14/2025 10:32	10705	CATA_T2	1	2	1	1.7	1.2	-0.5	-0.81	-0.81	1	1	0	900	900	0
2/14/2025 10:32	10703	CATA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 10:33	64204	KINZ_T1	11	3	-8	0.35	0.6	0.25	0	0	0	0	0	0	0	0
2/14/2025 10:33	64202	KINZ_T1	2	3	1	0.45	0.47	0.02	0	0	0	0	0	0	0	0
2/14/2025 10:33	64203	KINZ_T1	0	0	0	0	0	0	-0.23	-0.17	2	2	0	1800	1800	0
2/14/2025 10:34	53902	HALI_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 10:34	53901	HALI_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
2/14/2025 10:34	45802	HEGI_T2	13	10	-3	0.46	0.3	-0.16	1.19	1.34	0	0	0	0	0	0
2/14/2025 10:34	53903	HALI_T2	6	8	2	0.83	0.78	-0.05	-0.09	-0.06	0	0	0	0	0	0
2/14/2025 10:35	59101	WALK_T2	3	4	1	0.77	0.58	-0.19	0	0	0	0	0	0	0	0
2/14/2025 10:35	53903	HALI_T2	6	8	2	0.83	0.78	-0.05	0	0	0	0	0	0	0	0
2/14/2025 10:35	45802	HEGI_T2	13	10	-3	0.46	0.3	-0.16	1.19	1.34	0	0	0	0	0	0
2/14/2025 10:35	53902	HALI_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 10:35	53901	HALI_T2	1	1	0	0.8	1	0.2	-1.37	-1.36	0	0	0	0	0	0
2/14/2025 10:35	59102	WALK_T2	2	6	4	0.1	0.32	0.22	0.37	0.38	0	0	0	0	0	0
2/14/2025 10:36	44901	SCOT_T2	39	162	123	0.29	0.44	0.15	0.23	0.39	0	0	0	0	0	0
2/14/2025 10:36	44902	SCOT_T2	386	481	95	0.27	0.33	0.06	0	0	0	0	0	0	0	0
2/14/2025 10:36	45802	HEGI_T2	13	10	-3	0.46	0.3	-0.16	0	0	0	0	0	0	0	0
2/14/2025 10:42	61801	EELI_T2	2	8	6	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/14/2025 10:42	61803	EELI_T2	0	0	0	0	0	0	0.95	0.96	0	0	0	0	0	0
2/14/2025 10:42	16103	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 10:42	16101	BING_T2	1	1	0	0.5	0.4	-0.1	0.46	0.47	0	0	0	0	0	0
2/14/2025 10:42	10801	CHHI_T1	2	6	4	0.4	0.4	0	-1.19	-1.27	2	2	0	1500	1500	0
2/14/2025 10:44	20601	GRWO_T2	1	2	1	1.2	0.9	-0.3	0.65	0.62	0	0	0	0	0	0
2/14/2025 10:44	24102	EHAZ_T1	5	3	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/14/2025 10:44	20602	GRWO_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/14/2025 10:44	24105	EHAZ_T1	8	9	1	3.79	7.08	3.29	0	0	0	0	0	0	0	0
2/14/2025 10:44	24101	EHAZ_T1	35	34	-1	1.04	0.65	-0.39	0	0	0	0	0	0	0	0
2/14/2025 10:44	10801	CHHI_T1	2	6	4	0.4	0.4	0	-1.19	-1.27	2	2	0	1500	1500	0
2/14/2025 10:44	16102	BING_T2	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
2/14/2025 10:44	24104	EHAZ_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
2/14/2025 10:44	24103	EHAZ_T1	1	0	-1	0.2	0	-0.2	-0.25	-0.23	0	0	0	0	0	0
2/14/2025 10:44	16103	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 10:44	16101	BING_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/14/2025 10:45	61801	EELI_T2	5	9	4	0.3	0.43	0.13	0	0	0	0	0	0	0	0
2/14/2025 10:46	40101	HUNT_T2	3	3	0	1	0.8	-0.2	-1.12	-0.97	0	0	0	0	0	0
2/14/2025 10:46	53901	HALI_T2	1	3	2	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
2/14/2025 10:46	53902	HALI_T2	1	2	1	6.2	3.25	-2.95	0	0	0	0	0	0	0	0
2/14/2025 10:46	53903	HALI_T2	5	10	5	0.96	0.68	-0.28	-0.06	-0.06	0	0	0	0	0	0
2/14/2025 10:47	53901	HALI_T2	1	3	2	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
2/14/2025 10:47	53902	HALI_T2	1	2	1	6.2	3.25	-2.95	0	0	0	0	0	0	0	0
2/14/2025 10:47	53903	HALI_T2	5	10	5	0.96	0.68	-0.28	-0.06	-0.06	0	0	0	0	0	0
2/14/2025 10:48	61306	EARL_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
2/14/2025 10:48	64202	KINZ_T1	3	3	0	0.47	0.4	-0.07	0.83	0.8	0	0	0	0	0	0
2/14/2025 10:48	64204	KINZ_T1	3	9	6	0.6	0.34	-0.26	0	0	0	0	0	0	0	0
2/14/2025 10:48	61302	EARL_T1	2	2	0	0.35	0.6	0.25	0.71	0.64	1	0	-1	1200	0	-1200
2/14/2025 10:48	61304	EARL_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
2/14/2025 10:49	20601	GRWO_T2	2	1	-1	0.9	0.9	0	0	0	0	0	0	0	0	0
2/14/2025 10:49	20602	GRWO_T2	2	1	-1	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/14/2025 10:50	43304	WATS_T2	0	0	0	0	0	0	-0.6	-0.6	1	1	0	600	600	0
2/14/2025 10:50	65602	QVIL_T2	72	75	3	0.58	0.45	-0.13	0.29	0.3	0	0	0	0	0	0
2/14/2025 10:50	65601	QVIL_T2	114	145	31	0.24	0.28	0.04	0	0	0	0	0	0	0	0
2/14/2025 10:50	65604	QVIL_T2	3	4	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
2/14/2025 10:50	58201	NEWV_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/14/2025 10:50	58202	NEWV_T1	3	8	5	0.2	0.58	0.38	0	0	0	0	0	0	0	0
2/14/2025 10:50	65603	QVIL_T2	67	39	-28	0.14	0.14	0	0	0	0	0	0	0	0	0
2/14/2025 10:51	66901	SHIL_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
2/14/2025 10:51	64101	REFR_T1	4	2	-2	0.5	0.65	0.15	-0.03	-0.06	0	0	0	0	0	0
2/14/2025 10:51	59301	MCAL_T1	9	9	0	0.59	0.64	0.05	0	0	0	0	0	0	0	0
2/14/2025 10:51	66903	SHIL_T2	0	0	0	0	0	0	-1.18	-1.17	0	0	0	0	0	0
2/14/2025 10:51	59302	MCAL_T1	1	1	0	0.3	0.4	0.1	0.2	0.08	1	1	0	600	600	0
2/14/2025 10:52	64101	REFR_T1	4	2	-2	0.5	0.65	0.15	-0.02	-0.04	0	0	0	0	0	0
2/14/2025 10:52	66903	SHIL_T2	0	0	0	0	0	0	-2.36	-2.34	0	0	0	0	0	0
2/14/2025 10:52	44901	SCOT_T2	158	187	29	0.43	0.44	0.01	0.39	0.16	0	0	0	0	0	0
2/14/2025 10:52	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1.02	0	0	0	0	0	0
2/14/2025 10:52	66203	SISP_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/14/2025 10:52	65602	QVIL_T2	72	75	3	0.58	0.45	-0.13	0	0	0	0	0	0	0	0
2/14/2025 10:52	65604	QVIL_T2	3	4	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
2/14/2025 10:52	44902	SCOT_T2	438	511	73	0.32	0.32	0	0	0	0	0	0	0	0	0
2/14/2025 10:52	65603	QVIL_T2	67	39	-28	0.14	0.14	0	0.76	0.68	0	0	0	0	0	0
2/14/2025 10:52	66901	SHIL_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
2/14/2025 10:52	58401	MORO_T1	1	1	0	0.1	0.5	0.4	-0.87	-0.87	1	1	0	600	600	0
2/14/2025 10:52	65601	QVIL_T2	114	145	31	0.24	0.28	0.04	0.08	0.02	0	0	0	0	0	0
2/14/2025 10:53	65604	QVIL_T2	3	4	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
2/14/2025 10:53	60502	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 10:53	65602	QVIL_T2	72	75	3	0.58	0.45	-0.13	0	0	0	0	0	0	0	0
2/14/2025 10:53	60501	NMAN_T2	2	3	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
2/14/2025 10:53	60504	NMAN_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 10:53	65603	QVIL_T2	67	39	-28	0.14	0.14	0	0.76	0.68	0	0	0	0	0	0
2/14/2025 10:53	66903	SHIL_T2	0	0	0	0	0	0	-1.18	-1.17	0	0	0	0	0	0
2/14/2025 10:53	66203	SISP_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/14/2025 10:53	65601	QVIL_T2	114	145	31	0.24	0.28	0.04	0	0	0	0	0	0	0	0
2/14/2025 10:53	58401	MORO_T1	1	1	0	0.1	0.5	0.4	-0.87	-0.87	1	1	0	600	600	0
2/14/2025 10:53	66201	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 10:53	64101	REFR_T1	4	2	-2	0.5	0.65	0.15	-0.01	-0.02	0	0	0	0	0	0
2/14/2025 10:53	66901	SHIL_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
2/14/2025 10:54	64101	REFR_T1	4	2	-2	0.5	0.65	0.15	-0.01	-0.02	0	0	0	0	0	0
2/14/2025 10:54	65602	QVIL_T2	72	75	3	0.58	0.45	-0.13	0	0	0	0	0	0	0	0
2/14/2025 10:54	66203	SISP_T2	1	1	0	0.4	0.6	0.2	-1.18	-1.22	2	2	0	1800	1800	0
2/14/2025 10:54	44901	SCOT_T2	158	187	29	0.43	0.44	0.01	0	0	0	0	0	0	0	0
2/14/2025 10:54	65603	QVIL_T2	67	39	-28	0.14	0.14	0	0.76	0.68	0	0	0	0	0	0
2/14/2025 10:54	24901	WHHA_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
2/14/2025 10:54	24902	WHHA_T1	0	10	10	0	0.58	0.58	0.95	0.98	0	0	0	0	0	0
2/14/2025 10:54	65604	QVIL_T2	3	4	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
2/14/2025 10:54	65601	QVIL_T2	114	145	31	0.24	0.28	0.04	0	0	0	0	0	0	0	0
2/14/2025 10:54	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 10:54	44902	SCOT_T2	438	511	73	0.32	0.32	0	-0.88	-0.89	0	0	0	0	0	0
2/14/2025 10:55	64101	REFR_T1	4	2	-2	0.5	0.65	0.15	-0.01	-0.02	0	0	0	0	0	0
2/14/2025 10:55	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 10:55	66901	SHIL_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
2/14/2025 10:56	52102	MEIS_T1	0	0	0	0	0	0	0	1	1	1	0	450	450	0
2/14/2025 11:00	44802	EDAN_T2	1	3	2	0.2	0.6	0.4	0	0	0	0	0	0	0	0
2/14/2025 11:00	20602	GRWO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/14/2025 11:00	53501	EVIL_T2	2	4	2	0.95	0.5	-0.45	-1.16	-1.19	2	2	0	1200	1200	0
2/14/2025 11:00	20601	GRWO_T2	1	3	2	0.9	1	0.1	0.62	0.61	0	0	0	0	0	0
2/14/2025 11:00	53502	EVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 11:00	55508	HERS_T2	2	5	3	1.95	0.86	-1.09	0	0	1	1	0	1200	1200	0
2/14/2025 11:00	44801	EDAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/14/2025 11:01	41202	KENM_T2	1	0	-1	0.3	0	-0.3	-0.42	0.64	0	0	0	0	0	0
2/14/2025 11:01	40901	JESH_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
2/14/2025 11:01	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 11:03	55507	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 11:03	55501	HERS_T1	0	38	38	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 11:03	20601	GRWO_T2	1	3	2	0.9	1	0.1	0.62	0.61	0	0	0	0	0	0
2/14/2025 11:03	55508	HERS_T2	2	5	3	1.95	0.86	-1.09	0	0	2	2	0	2400	2400	0
2/14/2025 11:03	20602	GRWO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/14/2025 11:05	54201	PENN_T1	46	78	32	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
2/14/2025 11:05	54205	PENN_T1	23	19	-4	0.1	0.11	0.01	0	0	0	0	0	0	0	0
2/14/2025 11:05	54203	PENN_T1	75	161	86	0.52	0.36	-0.16	0	0	0	0	0	0	0	0
2/14/2025 11:06	54206	PENN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 11:06	54201	PENN_T1	46	78	32	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
2/14/2025 11:06	54205	PENN_T1	23	19	-4	0.1	0.11	0.01	0	0	0	0	0	0	0	0
2/14/2025 11:06	54202	PENN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/14/2025 11:06	54203	PENN_T1	75	161	86	0.52	0.36	-0.16	0.06	0.05	0	0	0	0	0	0
2/14/2025 11:07	54201	PENN_T1	46	78	32	0.37	0.34	-0.03	-0.01	-0.01	0	0	0	0	0	0
2/14/2025 11:07	47403	PENS_T1	1	1	0	0.6	1.3	0.7	0	0	0	0	0	0	0	0
2/14/2025 11:07	54203	PENN_T1	75	161	86	0.52	0.36	-0.16	0	0	0	0	0	0	0	0
2/14/2025 11:07	47401	PENS_T1	3	4	1	1.2	0.95	-0.25	0	0	0	0	0	0	0	0
2/14/2025 11:07	54205	PENN_T1	23	19	-4	0.1	0.11	0.01	0	0	0	0	0	0	0	0
2/14/2025 11:09	54203	PENN_T1	75	161	86	0.52	0.36	-0.16	0	0	0	0	0	0	0	0
2/14/2025 11:09	54201	PENN_T1	46	78	32	0.37	0.34	-0.03	-0.01	-0.01	0	0	0	0	0	0
2/14/2025 11:09	54205	PENN_T1	23	19	-4	0.1	0.11	0.01	0	0	0	0	0	0	0	0
2/14/2025 11:11	44802	EDAN_T2	1	3	2	0.2	0.6	0.4	-2.12	-2.11	0	0	0	0	0	0
2/14/2025 11:11	44801	EDAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/14/2025 11:12	14802	TREI_T2	2	2	0	0.2	0.25	0.05	0.52	0.51	0	0	0	0	0	0
2/14/2025 11:12	14801	TREI_T2	4	3	-1	0.43	0.47	0.04	0	0	0	0	0	0	0	0
2/14/2025 11:13	44802	EDAN_T2	1	3	2	0.2	0.6	0.4	-4.25	-4.23	0	0	0	0	0	0
2/14/2025 11:13	61701	ELIZ_T1	2	2	0	3.35	3.6	0.25	0.34	0.34	0	0	0	0	0	0
2/14/2025 11:13	44801	EDAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/14/2025 11:13	61703	ELIZ_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
2/14/2025 11:14	45502	DERR_T2	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
2/14/2025 11:16	44801	EDAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
2/14/2025 11:16	44802	EDAN_T2	3	3	0	0.27	0.63	0.36	-8.5	-8.45	0	0	0	0	0	0
2/14/2025 11:17	62102	ELAN_T1	1	1	0	0.4	0.8	0.4	0.72	0.78	0	0	0	0	0	0
2/14/2025 11:17	61504	EPET_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
2/14/2025 11:17	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 11:17	62106	ELAN_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/14/2025 11:17	62105	ELAN_T1	2	25	23	0.55	0.16	-0.39	0	0	0	0	0	0	0	0
2/14/2025 11:17	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 11:18	58102	NEKI_T1	2	2	0	0.75	0.65	-0.1	0.39	0.37	0	0	0	0	0	0
2/14/2025 11:18	63601	LETO_T1	2	5	3	0.3	0.22	-0.08	1.03	1.01	1	1	0	900	900	0
2/14/2025 11:18	63602	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/14/2025 11:18	58101	NEKI_T1	2	3	1	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
2/14/2025 11:19	45801	HEGI_T1	1	22	21	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/14/2025 11:20	28403	HART_T2	0	0	0	0	0	0	-0.78	-0.78	1	1	0	900	900	0
2/14/2025 11:20	63601	LETO_T1	2	5	3	0.3	0.22	-0.08	1.03	1.01	1	1	0	900	900	0
2/14/2025 11:20	59302	MCAL_T1	1	2	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
2/14/2025 11:20	59301	MCAL_T1	9	14	5	0.62	0.69	0.07	-1.27	-1.31	0	0	0	0	0	0
2/14/2025 11:20	63602	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/14/2025 11:21	59302	MCAL_T1	1	2	1	0.4	0.55	0.15	0	0	0	0	0	0	0	0
2/14/2025 11:21	54001	SDLE_T1	104	236	132	0.37	0.4	0.03	0	0	0	0	0	0	0	0
2/14/2025 11:21	59301	MCAL_T1	9	14	5	0.62	0.69	0.07	-1.27	-1.31	0	0	0	0	0	0
2/14/2025 11:22	54001	SDLE_T1	104	236	132	0.37	0.4	0.03	0	0	0	0	0	0	0	0
2/14/2025 11:23	54001	SDLE_T1	104	236	132	0.37	0.4	0.03	0	0	0	0	0	0	0	0
2/14/2025 11:23	66703	STRA_T1	5	10	5	0.46	0.5	0.04	-0.66	-0.65	0	0	0	0	0	0
2/14/2025 11:23	45802	HEGI_T2	47	44	-3	1.2	1.04	-0.16	0	0	0	0	0	0	0	0
2/14/2025 11:24	54001	SDLE_T1	104	236	132	0.37	0.4	0.03	0	0	0	0	0	0	0	0
2/14/2025 11:25	48602	POCA_T1	0	0	0	0	0	0	1.47	1.42	0	0	0	0	0	0
2/14/2025 11:25	42701	AUGU_T1	1	2	1	0.8	0.65	-0.15	0	0	2	2	0	1800	1800	0
2/14/2025 11:25	54001	SDLE_T1	104	236	132	0.37	0.4	0.03	0	0	0	0	0	0	0	0
2/14/2025 11:25	66703	STRA_T1	5	10	5	0.46	0.5	0.04	-0.66	-0.65	0	0	0	0	0	0
2/14/2025 11:25	44904	SCOT_T1	0	0	0	0	0	0	0.84	0.63	0	0	0	0	0	0
2/14/2025 11:25	48601	POCA_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/14/2025 11:26	54601	SUMM_T2	8	11	3	0.38	0.36	-0.02	-1.74	-1.73	2	2	0	2100	2100	0
2/14/2025 11:26	54001	SDLE_T1	104	236	132	0.37	0.4	0.03	0	0	0	0	0	0	0	0
2/14/2025 11:27	44802	EDAN_T2	3	3	0	0.27	0.63	0.36	-2.11	-2.14	0	0	0	0	0	0
2/14/2025 11:27	42701	AUGU_T1	1	2	1	0.8	0.65	-0.15	0	0	2	2	0	1800	1800	0
2/14/2025 11:27	44801	EDAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
2/14/2025 11:28	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/14/2025 11:28	54504	ENOL_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/14/2025 11:28	54505	ENOL_T2	2	2	0	0.6	0.7	0.1	-1.19	-1.2	1	1	0	600	600	0
2/14/2025 11:29	54504	ENOL_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/14/2025 11:29	54501	ENOL_T2	0	0	0	0	0	0	-0.52	0.14	1	0	-1	600	0	-600
2/14/2025 11:29	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/14/2025 11:29	54505	ENOL_T2	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
2/14/2025 11:30	61001	DONV_T1	0	1	1	0	0.4	0.4	-0.24	-0.24	0	0	0	0	0	0
2/14/2025 11:30	61506	EPET_T2	0	0	0	0	0	0	-0.72	-0.78	1	1	0	900	900	0
2/14/2025 11:30	54504	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/14/2025 11:30	54001	SDLE_T1	180	293	113	0.38	0.44	0.06	0	0	0	0	0	0	0	0
2/14/2025 11:30	54502	ENOL_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
2/14/2025 11:30	54505	ENOL_T2	2	2	0	0.6	0.7	0.1	-1.19	-1.2	1	1	0	600	600	0
2/14/2025 11:31	54501	ENOL_T2	0	0	0	0	0	0	-0.52	0.14	1	0	-1	600	0	-600
2/14/2025 11:31	44801	EDAN_T2	1	5	4	0.2	0.24	0.04	-0.29	-0.28	0	0	0	0	0	0
2/14/2025 11:31	54505	ENOL_T2	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
2/14/2025 11:31	44802	EDAN_T2	3	3	0	0.6	0.63	0.03	0	0	0	0	0	0	0	0
2/14/2025 11:31	54502	ENOL_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
2/14/2025 11:31	54504	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/14/2025 11:33	25501	MADI_T1	4	7	3	0.65	1.03	0.38	0	0	0	0	0	0	0	0
2/14/2025 11:33	25503	MADI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 11:34	47104	MARL_T1	0	0	0	0	0	0	-0.82	-0.87	0	0	0	0	0	0
2/14/2025 11:34	47101	MARL_T1	12	11	-1	0.22	0	-0.22	0	0	0	0	0	0	0	0
2/14/2025 11:35	65602	QVIL_T2	86	124	38	0.43	0.44	0.01	0	0	0	0	0	0	0	0
2/14/2025 11:35	65604	QVIL_T2	6	5	-1	0.47	0.56	0.09	0	0	0	0	0	0	0	0
2/14/2025 11:35	65601	QVIL_T2	222	244	22	0.33	0.34	0.01	0	0	0	0	0	0	0	0
2/14/2025 11:35	54505	ENOL_T2	2	2	0	0.6	0.7	0.1	-1.19	-1.2	1	1	0	600	600	0
2/14/2025 11:35	65603	QVIL_T2	256	293	37	0.18	0.2	0.02	0	0	0	0	0	0	0	0
2/14/2025 11:35	54502	ENOL_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
2/14/2025 11:35	54504	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/14/2025 11:36	65902	SAKR_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/14/2025 11:36	65904	SAKR_T2	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
2/14/2025 11:36	65901	SAKR_T2	2	2	0	4.95	5.45	0.5	-1.2	-1.17	1	1	0	900	900	0
2/14/2025 11:37	27504	WEIS_T1	0	1	1	0	0.3	0.3	-0.87	-0.88	0	0	0	0	0	0
2/14/2025 11:38	65604	QVIL_T2	6	5	-1	0.47	0.56	0.09	0	0	0	0	0	0	0	0
2/14/2025 11:38	14402	SSLA_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
2/14/2025 11:38	14404	SSLA_T1	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
2/14/2025 11:38	14401	SSLA_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
2/14/2025 11:38	52503	PROG_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
2/14/2025 11:38	65602	QVIL_T2	86	124	38	0.43	0.44	0.01	0.28	0.22	0	0	0	0	0	0
2/14/2025 11:38	65601	QVIL_T2	222	244	22	0.33	0.34	0.01	0	0	0	0	0	0	0	0
2/14/2025 11:38	14403	SSLA_T1	2	2	0	0.25	0.4	0.15	0.75	0.73	0	0	0	0	0	0
2/14/2025 11:38	43402	BENT_T1	6	14	8	0.45	0.43	-0.02	-0.93	-0.91	1	1	0	900	900	0
2/14/2025 11:38	65603	QVIL_T2	256	293	37	0.18	0.2	0.02	0	0	0	0	0	0	0	0
2/14/2025 11:39	65602	QVIL_T2	86	124	38	0.43	0.44	0.01	0	0	0	0	0	0	0	0
2/14/2025 11:39	65601	QVIL_T2	222	244	22	0.33	0.34	0.01	0	0	0	0	0	0	0	0
2/14/2025 11:39	65604	QVIL_T2	6	5	-1	0.47	0.56	0.09	0	0	0	0	0	0	0	0
2/14/2025 11:39	65603	QVIL_T2	256	293	37	0.18	0.2	0.02	0.54	0.65	0	0	0	0	0	0
2/14/2025 11:40	54202	PENN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
2/14/2025 11:40	54206	PENN_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
2/14/2025 11:41	65902	SAKR_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/14/2025 11:41	65904	SAKR_T2	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
2/14/2025 11:41	65901	SAKR_T2	2	2	0	4.95	5.45	0.5	-1.2	-1.17	1	1	0	900	900	0
2/14/2025 11:41	60201	ATGL_T2	4	5	1	0.3	0.42	0.12	0	0	0	0	0	0	0	0
2/14/2025 11:42	60201	ATGL_T2	4	5	1	0.3	0.42	0.12	1.05	1.04	0	0	0	0	0	0
2/14/2025 11:42	14403	SSLA_T1	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
2/14/2025 11:42	44802	EDAN_T2	3	3	0	0.6	0.63	0.03	-2.14	-2.14	0	0	0	0	0	0
2/14/2025 11:42	44801	EDAN_T2	1	5	4	0.2	0.24	0.04	-0.56	-0.62	0	0	0	0	0	0
2/14/2025 11:42	14402	SSLA_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
2/14/2025 11:42	14404	SSLA_T1	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
2/14/2025 11:42	14401	SSLA_T1	1	1	0	0.3	0.8	0.5	-0.45	-0.48	0	0	0	0	0	0
2/14/2025 11:42	43402	BENT_T1	6	14	8	0.45	0.43	-0.02	-0.93	-0.91	1	1	0	900	900	0
2/14/2025 11:43	41601	CLEV_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
2/14/2025 11:43	41602	CLEV_T1	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
2/14/2025 11:44	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 11:45	63804	HEMP_T1	1	1	0	6.7	6.6	-0.1	0.94	0.94	0	0	0	0	0	0
2/14/2025 11:45	63801	HEMP_T1	2	6	4	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/14/2025 11:45	41601	CLEV_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
2/14/2025 11:45	63803	HEMP_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
2/14/2025 11:45	41602	CLEV_T1	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
2/14/2025 11:45	63802	HEMP_T1	1	3	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
2/14/2025 11:46	61304	EARL_T1	4	3	-1	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
2/14/2025 11:46	61302	EARL_T1	4	2	-2	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/14/2025 11:46	61303	EARL_T1	0	0	0	0	0	0	0.68	0.57	0	0	0	0	0	0
2/14/2025 11:48	22805	HAUT_T2	14	30	16	0.85	0.91	0.06	0	0	0	0	0	0	0	0
2/14/2025 11:48	22803	HAUT_T2	50	66	16	0.72	0.49	-0.23	0	0	0	0	0	0	0	0
2/14/2025 11:48	52401	GRPA_T2	2	31	29	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
2/14/2025 11:48	44802	EDAN_T2	3	4	1	0.63	0.43	-0.2	0	0	0	0	0	0	0	0
2/14/2025 11:48	52403	GRPA_T2	113	192	79	0.55	0.88	0.33	0	0	0	0	0	0	0	0
2/14/2025 11:48	44801	EDAN_T2	3	4	1	0.23	0.33	0.1	-0.28	-0.31	0	0	0	0	0	0
2/14/2025 11:48	52402	GRPA_T2	17	27	10	0.79	0.66	-0.13	0	0	0	0	0	0	0	0
2/14/2025 11:48	52404	GRPA_T2	1	4	3	0.6	0.58	-0.02	0	0	0	0	0	0	0	0
2/14/2025 11:49	58401	MORO_T1	4	9	5	0.33	0.28	-0.05	-0.93	-0.93	1	1	0	600	600	0
2/14/2025 11:49	64101	REFR_T1	2	3	1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
2/14/2025 11:49	47101	MARL_T1	10	1	-9	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/14/2025 11:49	47104	MARL_T1	0	0	0	0	0	0	-0.87	-0.83	0	0	0	0	0	0
2/14/2025 11:50	52404	GRPA_T2	1	4	3	0.6	0.58	-0.02	0	0	0	0	0	0	0	0
2/14/2025 11:50	58401	MORO_T1	4	9	5	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
2/14/2025 11:50	64101	REFR_T1	2	3	1	0.45	0.5	0.05	-0.02	-0.04	0	0	0	0	0	0
2/14/2025 11:50	64801	MONE_T2	62	79	17	0.32	0.43	0.11	0.06	0.08	0	0	0	0	0	0
2/14/2025 11:50	65603	QVIL_T2	229	409	180	0.18	0.3	0.12	0	0	0	0	0	0	0	0
2/14/2025 11:50	65601	QVIL_T2	170	311	141	0.29	0.44	0.15	0	0	0	0	0	0	0	0
2/14/2025 11:50	52403	GRPA_T2	113	192	79	0.55	0.88	0.33	0	0	0	0	0	0	0	0
2/14/2025 11:50	52402	GRPA_T2	17	27	10	0.79	0.66	-0.13	0	0	0	0	0	0	0	0
2/14/2025 11:50	65604	QVIL_T2	4	6	2	0.63	0.63	0	0.62	0.63	0	0	0	0	0	0
2/14/2025 11:50	52401	GRPA_T2	2	31	29	0.55	0.3	-0.25	-0.6	-0.63	0	0	0	0	0	0
2/14/2025 11:50	65501	MOJO_T1	0	0	0	0	0	0	-1.14	-1.14	1	1	0	900	900	0
2/14/2025 11:50	64802	MONE_T2	110	215	105	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
2/14/2025 11:50	65602	QVIL_T2	77	191	114	0.48	0.48	0	0	0	0	0	0	0	0	0
2/14/2025 11:51	58402	MORO_T1	0	0	0	0	0	0	0.25	0.19	2	2	0	1500	1500	0
2/14/2025 11:51	58401	MORO_T1	4	9	5	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
2/14/2025 11:51	64801	MONE_T2	62	79	17	0.32	0.43	0.11	0	0	0	0	0	0	0	0
2/14/2025 11:51	64802	MONE_T2	110	215	105	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
2/14/2025 11:52	58402	MORO_T1	0	0	0	0	0	0	0.19	0.17	2	2	0	1500	1500	0
2/14/2025 11:52	58401	MORO_T1	4	9	5	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
2/14/2025 11:52	64801	MONE_T2	62	79	17	0.32	0.43	0.11	0	0	0	0	0	0	0	0
2/14/2025 11:52	64802	MONE_T2	110	215	105	0.42	0.37	-0.05	0.25	0.26	0	0	0	0	0	0
2/14/2025 11:53	64101	REFR_T1	2	3	1	0.45	0.5	0.05	-0.04	-0.02	0	0	0	0	0	0
2/14/2025 11:53	55001	NEWP_T1	1	2	1	0.4	0.35	-0.05	-0.38	-0.37	0	0	0	0	0	0
2/14/2025 11:53	55002	NEWP_T1	8	8	0	0.78	0.89	0.11	0	0	0	0	0	0	0	0
2/14/2025 11:54	64101	REFR_T1	2	3	1	0.45	0.5	0.05	-0.12	-0.06	0	0	0	0	0	0
2/14/2025 11:55	66703	STRA_T1	9	15	6	0.5	0.41	-0.09	-0.67	-0.7	0	0	0	0	0	0
2/14/2025 11:55	25801	SUTR_T2	1	1	0	0.2	0.3	0.1	-0.65	-0.63	0	0	0	0	0	0
2/14/2025 11:55	66701	STRA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 11:56	57404	SPAN_T2	0	0	0	0	0	0	0.03	0.05	1	1	0	1200	1200	0
2/14/2025 11:56	57402	SPAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/14/2025 11:57	56504	ROCK_T2	4	4	0	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
2/14/2025 11:57	56501	ROCK_T2	2	3	1	0.4	0.33	-0.07	-1.11	-1.1	0	0	0	0	0	0
2/14/2025 11:57	57403	SPAN_T1	8	19	11	0.39	0.35	-0.04	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/14/2025 11:57	57401	SPAN_T1	8	10	2	0.48	0.45	-0.03	-2.12	-2.1	2	2	0	1200	1200	0
2/14/2025 11:58	60103	COCA_T2	0	0	0	0	0	0	-0.56	-0.52	0	0	0	0	0	0
2/14/2025 11:58	44802	EDAN_T2	3	4	1	0.63	0.43	-0.2	-4.28	-4.34	0	0	0	0	0	0
2/14/2025 11:58	57401	SPAN_T1	8	10	2	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
2/14/2025 11:58	57403	SPAN_T1	8	19	11	0.39	0.35	-0.04	0.16	0.18	0	0	0	0	0	0
2/14/2025 11:58	44801	EDAN_T2	3	4	1	0.23	0.33	0.1	0	0	0	0	0	0	0	0
2/14/2025 11:59	44801	EDAN_T2	3	4	1	0.23	0.33	0.1	0	0	0	0	0	0	0	0
2/14/2025 11:59	44802	EDAN_T2	3	4	1	0.63	0.43	-0.2	-4.28	-4.34	0	0	0	0	0	0
2/14/2025 11:59	54505	ENOL_T2	2	2	0	0.7	0.7	0	-2.37	-2.32	2	2	0	1200	1200	0
2/14/2025 11:59	54503	ENOL_T2	0	0	0	0	0	0	-1	-1	3	3	0	1800	1800	0
2/14/2025 11:59	54502	ENOL_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
2/14/2025 11:59	54504	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/14/2025 12:00	54504	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/14/2025 12:00	44801	EDAN_T2	4	10	6	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
2/14/2025 12:00	54502	ENOL_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/14/2025 12:00	54505	ENOL_T2	2	2	0	0.7	0.85	0.15	-2.37	-2.32	2	2	0	1200	1200	0
2/14/2025 12:00	44802	EDAN_T2	3	2	-1	0.53	0.1	-0.43	-4.28	-4.34	0	0	0	0	0	0
2/14/2025 12:01	54505	ENOL_T2	2	2	0	0.7	0.85	0.15	-2.37	-2.32	2	2	0	1200	1200	0
2/14/2025 12:01	63601	LETO_T1	6	5	-1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
2/14/2025 12:01	54502	ENOL_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/14/2025 12:01	54504	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/14/2025 12:01	63602	LETO_T1	1	1	0	0.1	0.4	0.3	-0.28	-0.47	0	0	0	0	0	0
2/14/2025 12:02	54505	ENOL_T2	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
2/14/2025 12:02	64402	LAND_T2	3	3	0	0.27	0.57	0.3	-0.19	-0.28	1	1	0	600	600	0
2/14/2025 12:02	54503	ENOL_T2	0	0	0	0	0	0	-0.33	-0.33	1	1	0	600	600	0
2/14/2025 12:02	54205	PENN_T1	54	54	0	0.14	0.17	0.03	0	0	0	0	0	0	0	0
2/14/2025 12:02	63601	LETO_T1	6	5	-1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
2/14/2025 12:02	54504	ENOL_T2	1	1	0	0.5	0.5	0	-0.98	-1.01	1	1	0	600	600	0
2/14/2025 12:02	54502	ENOL_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/14/2025 12:02	63602	LETO_T1	1	1	0	0.1	0.4	0.3	-0.28	-0.47	0	0	0	0	0	0
2/14/2025 12:02	54203	PENN_T1	164	210	46	0.42	0.38	-0.04	0.07	0.07	0	0	0	0	0	0
2/14/2025 12:02	54201	PENN_T1	96	97	1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
2/14/2025 12:03	59301	MCAL_T1	28	27	-1	0.54	0.58	0.04	-1.15	-1.2	0	0	0	0	0	0
2/14/2025 12:03	54505	ENOL_T2	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
2/14/2025 12:03	63602	LETO_T1	1	1	0	0.1	0.4	0.3	-0.28	-0.47	0	0	0	0	0	0
2/14/2025 12:03	63601	LETO_T1	6	5	-1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
2/14/2025 12:03	59302	MCAL_T1	4	1	-3	0.53	1.4	0.87	0	0	0	0	0	0	0	0
2/14/2025 12:03	54502	ENOL_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/14/2025 12:03	54503	ENOL_T2	0	0	0	0	0	0	-0.67	-0.67	2	2	0	1200	1200	0
2/14/2025 12:03	54504	ENOL_T2	1	1	0	0.5	0.5	0	-0.98	-1.01	1	1	0	600	600	0
2/14/2025 12:04	44201	POIN_T1	3	38	35	0.1	0.13	0.03	-1.82	-1.85	2	2	0	2100	2100	0
2/14/2025 12:04	55001	NEWP_T1	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/14/2025 12:04	54502	ENOL_T2	2	2	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/14/2025 12:04	54505	ENOL_T2	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
2/14/2025 12:04	55002	NEWP_T1	8	8	0	0.88	0.79	-0.09	-0.17	-0.17	0	0	0	0	0	0
2/14/2025 12:04	54504	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/14/2025 12:04	54503	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 12:05	25503	MADI_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/14/2025 12:05	55002	NEWP_T1	8	8	0	0.88	0.79	-0.09	-0.17	-0.17	0	0	0	0	0	0
2/14/2025 12:05	47101	MARL_T1	1	4	3	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/14/2025 12:05	47104	MARL_T1	0	0	0	0	0	0	-0.83	-0.82	0	0	0	0	0	0
2/14/2025 12:05	55001	NEWP_T1	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/14/2025 12:05	25501	MADI_T1	6	6	0	0.42	0.45	0.03	0	0	1	1	0	600	600	0
2/14/2025 12:05	63601	LETO_T1	6	5	-1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
2/14/2025 12:05	63602	LETO_T1	1	1	0	0.1	0.4	0.3	-0.28	-0.47	0	0	0	0	0	0
2/14/2025 12:06	55002	NEWP_T1	8	8	0	0.88	0.79	-0.09	-0.17	-0.17	0	0	0	0	0	0
2/14/2025 12:06	66703	STRA_T1	11	14	3	0.45	0.44	-0.01	-0.7	-0.77	0	0	0	0	0	0
2/14/2025 12:06	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 12:06	55001	NEWP_T1	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/14/2025 12:06	66701	STRA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/14/2025 12:07	66703	STRA_T1	11	14	3	0.45	0.44	-0.01	-0.7	-0.77	0	0	0	0	0	0
2/14/2025 12:07	55002	NEWP_T1	8	8	0	0.88	0.79	-0.09	-0.34	-0.36	0	0	0	0	0	0
2/14/2025 12:07	66701	STRA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/14/2025 12:07	55001	NEWP_T1	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/14/2025 12:08	14402	SSLA_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
2/14/2025 12:08	14403	SSLA_T1	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
2/14/2025 12:08	14401	SSLA_T1	1	1	0	0.8	1	0.2	-0.47	-0.47	0	0	0	0	0	0
2/14/2025 12:08	14404	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 12:09	44201	POIN_T1	3	38	35	0.1	0.13	0.03	-1.85	-1.89	2	2	0	2100	2100	0
2/14/2025 12:10	60101	COCA_T1	1	1	0	0.2	0.3	0.1	0.49	0.42	0	0	0	0	0	0
2/14/2025 12:11	61801	EELI_T2	5	9	4	0.54	0.42	-0.12	0	0	0	0	0	0	0	0
2/14/2025 12:11	41601	CLEV_T1	1	3	2	1.3	0.47	-0.83	0	0	0	0	0	0	0	0
2/14/2025 12:11	61803	EELI_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
2/14/2025 12:11	25801	SUTR_T2	1	1	0	0.2	0.3	0.1	-0.63	-0.65	0	0	0	0	0	0
2/14/2025 12:11	61802	EELI_T2	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
2/14/2025 12:11	41602	CLEV_T1	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
2/14/2025 12:12	41601	CLEV_T1	1	3	2	1.3	0.47	-0.83	0	0	0	0	0	0	0	0
2/14/2025 12:12	51804	EBEN_T2	3	3	0	0.27	0.37	0.1	0	0	0	0	0	0	0	0
2/14/2025 12:12	41602	CLEV_T1	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
2/14/2025 12:12	51802	EBEN_T2	0	0	0	0	0	0	0.27	0.26	1	1	0	900	900	0
2/14/2025 12:13	40505	CRES_T1	0	1	1	0	0.1	0.1	0.37	0.37	0	0	0	0	0	0
2/14/2025 12:13	67303	WYOM_T2	1	0	-1	0.3	0	-0.3	-0.52	-0.47	0	0	0	0	0	0
2/14/2025 12:13	40504	CRES_T1	1	14	13	0.8	0.27	-0.53	0	0	0	0	0	0	0	0
2/14/2025 12:14	60101	COCA_T1	1	1	0	0.2	0.3	0.1	0.49	0.42	0	0	0	0	0	0
2/14/2025 12:15	41602	CLEV_T1	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/14/2025 12:15	25501	MADI_T1	3	7	4	0.7	0.42	-0.28	0	0	1	1	0	600	600	0
2/14/2025 12:15	41601	CLEV_T1	1	3	2	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
2/14/2025 12:16	63602	LETO_T1	1	1	0	0.4	0.3	-0.1	-0.47	-0.46	0	0	0	0	0	0
2/14/2025 12:16	40902	JESH_T1	0	0	0	0	0	0	-1.15	-1.19	1	1	0	600	600	0
2/14/2025 12:16	40901	JESH_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/14/2025 12:16	63601	LETO_T1	4	6	2	0.3	0.35	0.05	0	0	0	0	0	0	0	0
2/14/2025 12:18	64402	LAND_T2	3	3	0	0.57	0.27	-0.3	-0.28	-0.26	1	1	0	600	600	0
2/14/2025 12:18	20601	GRWO_T2	1	1	0	0.6	0	-0.6	0.55	0.54	0	0	0	0	0	0
2/14/2025 12:21	40901	JESH_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/14/2025 12:21	40902	JESH_T1	0	0	0	0	0	0	-1.19	-1.08	1	1	0	600	600	0
2/14/2025 12:21	58402	MORO_T1	0	0	0	0	0	0	0.17	0.62	2	1	-1	1500	900	-600
2/14/2025 12:21	47101	MARL_T1	1	12	11	0.6	0.23	-0.37	0	0	0	0	0	0	0	0
2/14/2025 12:21	58401	MORO_T1	5	5	0	0.32	0.3	-0.02	0	0	0	0	0	0	0	0
2/14/2025 12:21	52503	PROG_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
2/14/2025 12:21	47104	MARL_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
2/14/2025 12:22	59402	RFLD_T2	3	8	5	0.37	0.35	-0.02	-0.64	-0.63	1	1	0	450	450	0
2/14/2025 12:23	57106	SPHI_T2	5	4	-1	1.36	1.5	0.14	0	0	0	0	0	0	0	0
2/14/2025 12:23	57103	SPHI_T2	6	4	-2	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
2/14/2025 12:23	59402	RFLD_T2	3	8	5	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
2/14/2025 12:23	67605	WARW_T1	24	27	3	0.47	0.53	0.06	-1.08	-0.97	0	0	0	0	0	0
2/14/2025 12:23	67604	WARW_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/14/2025 12:23	57102	SPHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 12:23	57104	SPHI_T2	14	11	-3	1.19	0.53	-0.66	-1.77	-1.81	1	1	0	900	900	0
2/14/2025 12:23	57101	SPHI_T2	8	7	-1	0.63	0.9	0.27	0	0	0	0	0	0	0	0
2/14/2025 12:24	57106	SPHI_T2	5	4	-1	1.36	1.5	0.14	0	0	0	0	0	0	0	0
2/14/2025 12:24	57101	SPHI_T2	8	7	-1	0.63	0.9	0.27	0	0	0	0	0	0	0	0
2/14/2025 12:24	57103	SPHI_T2	6	4	-2	0.3	0.18	-0.12	-0.22	-0.22	0	0	0	0	0	0
2/14/2025 12:24	67605	WARW_T1	24	27	3	0.47	0.53	0.06	-2.16	-1.95	0	0	0	0	0	0
2/14/2025 12:24	67604	WARW_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/14/2025 12:24	57102	SPHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 12:24	57104	SPHI_T2	14	11	-3	1.19	0.53	-0.66	0	0	0	0	0	0	0	0
2/14/2025 12:25	54504	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/14/2025 12:25	54502	ENOL_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
2/14/2025 12:25	54503	ENOL_T2	0	0	0	0	0	0	-0.35	-0.33	1	1	0	600	600	0
2/14/2025 12:25	54505	ENOL_T2	2	2	0	0.55	0.85	0.3	0	0	0	0	0	0	0	0
2/14/2025 12:26	57102	SPHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 12:26	57103	SPHI_T2	6	4	-2	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
2/14/2025 12:26	45501	DERR_T2	0	0	0	0	0	0.03	-0.01	2	2	0	0	1800	1800	0
2/14/2025 12:26	57106	SPHI_T2	5	4	-1	1.36	1.5	0.14	0	0	0	0	0	0	0	0
2/14/2025 12:26	67603	WARW_T1	0	0	0	0	0	0	0.11	0.15	0	0	0	0	0	0
2/14/2025 12:26	57104	SPHI_T2	14	11	-3	1.19	0.53	-0.66	-1.77	-1.81	1	1	0	900	900	0
2/14/2025 12:26	67605	WARW_T1	24	27	3	0.47	0.53	0.06	-1.08	-0.97	0	0	0	0	0	0
2/14/2025 12:26	53102	WTWN_T1	0	1	1	0	0.2	0.2	-1.12	-1.09	0	0	0	0	0	0
2/14/2025 12:26	53101	WTWN_T1	2	5	3	0.25	0.32	0.07	0	0	0	0	0	0	0	0
2/14/2025 12:26	67604	WARW_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/14/2025 12:26	57101	SPHI_T2	8	7	-1	0.63	0.9	0.27	0	0	0	0	0	0	0	0
2/14/2025 12:26	44301	BEAV_T2	2	3	1	0.3	0.13	-0.17	-0.05	0.61	1	1	0	600	600	0
2/14/2025 12:27	40505	CRES_T1	1	0	-1	0.1	0	-0.1	0.37	0.36	0	0	0	0	0	0
2/14/2025 12:27	57101	SPHI_T2	8	7	-1	0.63	0.9	0.27	0	0	0	0	0	0	0	0
2/14/2025 12:27	46004	BERW_T2	1	3	2	0.2	0.2	0	-0.64	-0.65	0	0	0	0	0	0
2/14/2025 12:27	57102	SPHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 12:27	44301	BEAV_T2	2	3	1	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
2/14/2025 12:27	57103	SPHI_T2	6	4	-2	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
2/14/2025 12:27	57106	SPHI_T2	5	4	-1	1.36	1.5	0.14	0	0	0	0	0	0	0	0
2/14/2025 12:27	53101	WTWN_T1	2	5	3	0.25	0.32	0.07	0	0	0	0	0	0	0	0
2/14/2025 12:27	57104	SPHI_T2	14	11	-3	1.19	0.53	-0.66	-1.77	-1.81	1	1	0	900	900	0
2/14/2025 12:27	40504	CRES_T1	14	1	-13	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
2/14/2025 12:27	53102	WTWN_T1	0	1	1	0	0.2	0.2	-1.12	-1.09	0	0	0	0	0	0
2/14/2025 12:28	61801	EELI_T2	7	9	2	0.46	0.31	-0.15	-0.31	-0.34	0	0	0	0	0	0
2/14/2025 12:28	61803	EELI_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/14/2025 12:28	45501	DERR_T2	0	0	0	0	0	0	0.03	-0.01	2	2	0	1800	1800	0
2/14/2025 12:29	40501	CRES_T2	11	6	-5	0.39	0.37	-0.02	0	0	0	0	0	0	0	0
2/14/2025 12:29	53102	WTWN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/14/2025 12:29	53101	WTWN_T1	2	5	3	0.25	0.32	0.07	0	0	0	0	0	0	0	0
2/14/2025 12:30	17401	FOHI_T1	0	0	0	0	0	0	-1	-1.03	0	0	0	0	0	0
2/14/2025 12:30	44301	BEAV_T2	3	0	-3	0.13	0	-0.13	-0.05	0.61	1	1	0	600	600	0
2/14/2025 12:30	63401	HONY_T1	0	0	0	0	0	0	0.05	0.09	1	1	0	600	600	0
2/14/2025 12:30	45501	DERR_T2	0	0	0	0	0	0	0.03	0.01	2	2	0	1800	1800	0
2/14/2025 12:32	63501	HEID_TBK1-2	28	58	30	0.3	0.38	0.08	-0.28	-0.28	1	1	0	900	900	0
2/14/2025 12:32	40501	CRES_T2	6	6	0	0.32	0.33	0.01	0	0	0	0	0	0	0	0
2/14/2025 12:33	40504	CRES_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/14/2025 12:33	17802	GILB_T1	2	2	0	0.75	0.75	0	0.27	0.23	0	0	0	0	0	0
2/14/2025 12:33	40505	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 12:35	58401	MORO_T1	4	3	-1	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
2/14/2025 12:35	58402	MORO_T1	0	0	0	0	0	0	0.62	0.6	1	1	0	900	900	0
2/14/2025 12:36	55001	NEWP_T1	2	1	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
2/14/2025 12:36	55002	NEWP_T1	7	9	2	0.84	0.94	0.1	-0.18	-0.19	0	0	0	0	0	0
2/14/2025 12:38	66703	STRA_T1	12	12	0	0.47	0.4	-0.07	-0.79	-0.75	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/14/2025 12:38	66701	STRA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/14/2025 12:38	59402	RFLD_T2	7	5	-2	0.29	0.32	0.03	-0.63	-0.23	1	1	0	450	450	0
2/14/2025 12:38	55002	NEWP_T1	7	9	2	0.84	0.94	0.1	-0.19	-0.2	0	0	0	0	0	0
2/14/2025 12:38	55001	NEWP_T1	2	1	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
2/14/2025 12:39	55002	NEWP_T1	7	9	2	0.84	0.94	0.1	-0.19	-0.2	0	0	0	0	0	0
2/14/2025 12:39	55001	NEWP_T1	2	1	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
2/14/2025 12:40	45501	DERR_T2	0	0	0	0	0	0	0	-0.01	-0.01	2	2	0	1800	1800	0
2/14/2025 12:42	45402	WBLO_T2	2	2	0	0.45	0.5	0.05	-1.26	-1.21	0	0	0	0	0	0
2/14/2025 12:43	66701	STRA_T1	1	1	0	0.2	0.2	0	0.5	0.53	0	0	0	0	0	0
2/14/2025 12:43	66703	STRA_T1	12	12	0	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
2/14/2025 12:44	61801	EELI_T2	6	9	3	0.32	0.33	0.01	0	0	0	0	0	0	0	0
2/14/2025 12:44	61803	EELI_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
2/14/2025 12:46	41002	LAUR_T2	3	4	1	0.83	0.63	-0.2	0	0	0	0	0	0	0	0
2/14/2025 12:46	41001	LAUR_T2	5	9	4	0.7	0.42	-0.28	0	0	0	0	0	0	0	0
2/14/2025 12:48	63601	LETO_T1	6	5	-1	0.35	0.22	-0.13	0	0	0	0	0	0	0	0
2/14/2025 12:48	63602	LETO_T1	1	2	1	0.2	0.4	0.2	-0.29	-0.29	0	0	0	0	0	0
2/14/2025 12:49	41702	LOGA_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
2/14/2025 12:50	64101	REFR_T1	1	3	2	0.1	0.7	0.6	-0.07	-0.06	0	0	0	0	0	0
2/14/2025 12:51	64204	KINZ_T1	27	20	-7	0.54	0.34	-0.2	0	0	0	0	0	0	0	0
2/14/2025 12:51	64203	KINZ_T1	0	0	0	0	0	0	-0.09	-0.22	2	2	0	1800	1800	0
2/14/2025 12:51	64101	REFR_T1	1	3	2	0.1	0.7	0.6	-0.06	-0.04	0	0	0	0	0	0
2/14/2025 12:53	59402	RFLD_T2	5	1	-4	0.32	0.3	-0.02	-0.23	-0.2	1	1	0	450	450	0
2/14/2025 12:54	66701	STRA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/14/2025 12:54	45402	WBLO_T2	1	2	1	0.6	0.6	0	-0.61	-0.63	0	0	0	0	0	0
2/14/2025 12:54	66703	STRA_T1	12	11	-1	0.4	0.44	0.04	-0.75	-0.74	0	0	0	0	0	0
2/14/2025 12:55	42501	ALTA_T2	2	2	0	0.1	0.2	0.1	0	0.01	1	1	0	600	600	0
2/14/2025 12:55	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/14/2025 12:56	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/14/2025 12:56	42501	ALTA_T2	2	2	0	0.1	0.2	0.1	0	0.01	1	1	0	600	600	0
2/14/2025 12:57	42501	ALTA_T2	2	2	0	0.1	0.2	0.1	0	0.01	1	1	0	600	600	0
2/14/2025 12:57	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/14/2025 12:58	54503	ENOL_T2	0	0	0	0	0	0	-0.37	-0.35	1	1	0	600	600	0
2/14/2025 12:58	54502	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/14/2025 12:58	55507	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 12:58	54504	ENOL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
2/14/2025 12:58	59402	RFLD_T2	5	1	-4	0.32	0.3	-0.02	-0.23	-0.2	1	1	0	450	450	0
2/14/2025 12:58	54505	ENOL_T2	2	2	0	0.75	0.85	0.1	0	0	0	0	0	0	0	0
2/14/2025 13:00	20603	GRWO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 13:00	54502	ENOL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/14/2025 13:00	54503	ENOL_T2	0	0	0	0	0	0	-0.37	-0.35	1	1	0	600	600	0
2/14/2025 13:00	54505	ENOL_T2	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
2/14/2025 13:00	20601	GRWO_T2	0	1	1	0	0	0	0.49	0.53	0	0	0	0	0	0
2/14/2025 13:00	54504	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/14/2025 13:01	54502	ENOL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/14/2025 13:01	54504	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/14/2025 13:01	54505	ENOL_T2	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
2/14/2025 13:01	54503	ENOL_T2	0	0	0	0	0	0	-0.73	-0.71	2	2	0	1200	1200	0
2/14/2025 13:02	54504	ENOL_T2	1	1	0	0.3	0.3	0	-1.03	-1.01	1	1	0	600	600	0
2/14/2025 13:02	54503	ENOL_T2	0	0	0	0	0	0	-1.1	-1.06	3	3	0	1800	1800	0
2/14/2025 13:02	54505	ENOL_T2	2	2	0	0.65	0.9	0.25	-2.41	-2.43	2	2	0	1200	1200	0
2/14/2025 13:02	63802	HEMP_T1	1	4	3	0.2	0.23	0.03	0	0	0	0	0	0	0	0
2/14/2025 13:02	63804	HEMP_T1	1	1	0	6.7	6.4	-0.3	0.95	0.94	0	0	0	0	0	0
2/14/2025 13:02	63801	HEMP_T1	3	6	3	0.47	0.52	0.05	0	0	0	0	0	0	0	0
2/14/2025 13:02	54502	ENOL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/14/2025 13:02	63803	HEMP_T1	1	6	5	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
2/14/2025 13:03	63602	LETO_T1	1	2	1	0.6	0.4	-0.2	-0.29	-0.45	0	0	0	0	0	0
2/14/2025 13:03	54505	ENOL_T2	2	0	0	0.65	0.9	0.25	-1.21	-1.22	1	1	0	600	600	0
2/14/2025 13:03	54504	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/14/2025 13:03	54502	ENOL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/14/2025 13:03	63601	LETO_T1	5	4	-1	0.18	0.3	0.12	0	0	0	0	0	0	0	0
2/14/2025 13:04	63601	LETO_T1	5	4	-1	0.18	0.3	0.12	0	0	0	0	0	0	0	0
2/14/2025 13:04	54504	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/14/2025 13:04	57106	SPHI_T2	3	4	1	1.67	1.35	-0.32	0	0	0	0	0	0	0	0
2/14/2025 13:04	57101	SPHI_T2	6	0	-6	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/14/2025 13:04	57102	SPHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 13:04	27201	YATE_T1	10	10	0	7.37	7.07	-0.3	-0.37	-0.37	0	0	0	0	0	0
2/14/2025 13:04	57104	SPHI_T2	7	7	0	1.83	1.31	-0.52	-1.79	-1.79	1	1	0	900	900	0
2/14/2025 13:04	54502	ENOL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/14/2025 13:04	54505	ENOL_T2	2	2	0	0.65	0.9	0.25	-1.21	-1.22	1	1	0	600	600	0
2/14/2025 13:04	63602	LETO_T1	1	2	1	0.6	0.4	-0.2	-0.29	-0.45	0	0	0	0	0	0
2/14/2025 13:06	66901	SHIL_T2	3	4	1	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
2/14/2025 13:06	66902	SHIL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/14/2025 13:06	66903	SHIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 13:06	64101	REFR_T1	2	2	0	0.65	0.85	0.2	-0.04	0.02	0	0	0	0	0	0
2/14/2025 13:09	66901	SHIL_T2	3	4	1	0.47	0.45	-0.02	-1.49	-1.49	1	1	0	1200	1200	0
2/14/2025 13:09	66902	SHIL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/14/2025 13:09	67203	TEHI_T1	1	2	1	0.7	0.75	0.05	2.55	2.67	3	3	0	2100	2100	0
2/14/2025 13:09	66903	SHIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/14/2025 13:10	66701	STRA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/14/2025 13:10	66703	STRA_T1	7	26	19	0.39	0.29	-0.1	-0.74	-0.75	0	0	0	0	0	0
2/14/2025 13:11	60201	ATGL_T2	18	33	15	0.27	0.28	0.01	1.14	1.13	0	0	0	0	0	0
2/14/2025 13:12	41902	REED_T1	2	1354	1352	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
2/14/2025 13:12	41903	REED_T1	0	0	0	0	0	0	-0.51	0.68	1	0	-1	1200	0	-1200
2/14/2025 13:13	41903	REED_T1	0	0	0	0	0	0	-0.51	0.68	1	0	-1	1200	0	-1200
2/14/2025 13:13	41902	REED_T1	2	1354	1352	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
2/14/2025 13:13	62102	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/14/2025 13:13	62105	ELAN_T1	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
2/14/2025 13:14	62102	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/14/2025 13:14	62105	ELAN_T1	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
2/14/2025 13:14	41902	REED_T1	2	1354	1352	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
2/14/2025 13:14	41901	REED_T1	0	0	0	0	0	0	-0.39	-0.36	0	0	0	0	0	0
2/14/2025 13:15	53501	EVIL_T2	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/14/2025 13:15	61802	EELI_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
2/14/2025 13:15	61803	EELI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/14/2025 13:15	41903	REED_T1	0	0	0	0	0	0	-2.55	3.41	5	0	-5	6000	0	-6000
2/14/2025 13:15	61801	EELI_T2	6	7	1	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
2/14/2025 13:15	53502	EVIL_T2	0	0	0	0	0	0	0.12	0.26	1	1	0	600	600	0
2/14/2025 13:16	41903	REED_T1	0	0	0	0	0	0	-0.51	0.68	1	0	-1	1200	0	-1200
2/14/2025 13:17	41903	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 13:18	22601	KIMB_T1	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/14/2025 13:18	22602	KIMB_T1	0	2	2	0	0.25	0.25	0.26	0.26	0	0	0	0	0	0
2/14/2025 13:18	41902	REED_T1	0	0	0	0	0	0	-0.01	0.8	1	0	-1	900	0	-900
2/14/2025 13:19	54502	ENOL_T2	1	3	2	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
2/14/2025 13:19	41902	REED_T1	0	0	0	0	0	0	-0.01	0.8	1	0	-1	900	0	-900
2/14/2025 13:19	54504	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/14/2025 13:19	54505	ENOL_T2	2	2	0	0.85	1.05	0.2	-1.22	-1.22	1	1	0	600	600	0
2/14/2025 13:20	64101	REFR_T1	2	2	0	0.55	0.85	0.3	-0.04	0.02	0	0	0	0	0	0
2/14/2025 13:20	55001	NEWP_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/14/2025 13:20	55002	NEWP_T1	6	9	3	1.25	1	-0.25	-0.17	-0.18	0	0	0	0	0	0
2/14/2025 13:21	41902	REED_T1	0	0	0	0	0	0	0.8	1.05	1	0	-1	900	0	-900
2/14/2025 13:21	67106	SPRI_T2	1	1	0	0.2	0.1	-0.1	-3.86	-3.84	2	2	0	1800	1800	0
2/14/2025 13:21	67101	SPRI_T2	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
2/14/2025 13:22	64101	REFR_T1	2	2	0	0.55	0.85	0.3	0.02	-0.06	0	0	0	0	0	0
2/14/2025 13:22	41903	REED_T1	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
2/14/2025 13:23	64101	REFR_T1	2	2	0	0.55	0.85	0.3	0.08	-0.23	0	0	0	0	0	0
2/14/2025 13:24	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 13:25	64101	REFR_T1	2	2	0	0.55	0.85	0.3	0.02	-0.06	0	0	0	0	0	0
2/14/2025 13:25	67106	SPRI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/14/2025 13:25	67101	SPRI_T2	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
2/14/2025 13:27	41601	CLEV_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/14/2025 13:27	41602	CLEV_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
2/14/2025 13:28	47203	FAXO_T2	0	0	0	0	0	0	-1.09	-0.41	0	0	0	0	0	0
2/14/2025 13:28	14801	TREI_T2	3	1	-2	0.5	1.1	0.6	0	0	0	0	0	0	0	0
2/14/2025 13:28	14802	TREI_T2	1	2	1	0.3	0.35	0.05	0.45	0.42	0	0	0	0	0	0
2/14/2025 13:29	41602	CLEV_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
2/14/2025 13:29	54505	ENOL_T2	2	2	0	0.85	1.05	0.2	-2.44	-2.45	2	2	0	1200	1200	0
2/14/2025 13:29	20402	ASHF_T2	3	7	4	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
2/14/2025 13:29	41601	CLEV_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/14/2025 13:29	54502	ENOL_T2	1	3	2	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
2/14/2025 13:29	20401	ASHF_T2	9	9	0	0.49	0.68	0.19	-0.24	-0.3	1	1	0	600	600	0
2/14/2025 13:29	54504	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/14/2025 13:29	20403	ASHF_T2	11	6	-5	0.33	0.55	0.22	0	0	0	0	0	0	0	0
2/14/2025 13:30	41602	CLEV_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/14/2025 13:30	41601	CLEV_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/14/2025 13:32	41204	KENM_T2	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
2/14/2025 13:32	47201	FAXO_T2	0	0	0	0	0	0	-2.27	-2.29	1	1	0	1200	1200	0
2/14/2025 13:33	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 13:33	54504	ENOL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/14/2025 13:33	54502	ENOL_T2	1	3	2	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
2/14/2025 13:33	54505	ENOL_T2	2	2	0	0.9	1.05	0.15	0	0	0	0	0	0	0	0
2/14/2025 13:35	47401	PENS_T1	4	5	1	1.05	1.02	-0.03	0.89	0.85	0	0	0	0	0	0
2/14/2025 13:35	47403	PENS_T1	6	7	1	0.43	0.77	0.34	0	0	0	0	0	0	0	0
2/14/2025 13:37	47401	PENS_T1	4	5	1	1.05	1.02	-0.03	0.85	0.85	0	0	0	0	0	0
2/14/2025 13:37	64101	REFR_T1	2	2	0	0.8	0.55	-0.25	-0.06	-0.01	0	0	0	0	0	0
2/14/2025 13:37	47403	PENS_T1	6	7	1	0.43	0.77	0.34	0	0	0	0	0	0	0	0
2/14/2025 13:39	67605	WARW_T1	27	32	5	0.53	0.49	-0.04	-1.05	-1.06	0	0	0	0	0	0
2/14/2025 13:40	57401	SPAN_T1	6	5	-1	0.47	0.54	0.07	-1.08	-1.08	1	1	0	600	600	0
2/14/2025 13:40	57403	SPAN_T1	34	28	-6	0.35	0.36	0.01	0	0	0	0	0	0	0	0
2/14/2025 13:41	57403	SPAN_T1	34	28	-6	0.35	0.36	0.01	0	0	0	0	0	0	0	0
2/14/2025 13:41	57401	SPAN_T1	6	5	-1	0.47	0.54	0.07	-1.08	-1.08	1	1	0	600	600	0
2/14/2025 13:41	67605	WARW_T1	27	32	5	0.53	0.49	-0.04	0	0	0	0	0	0	0	0
2/14/2025 13:42	57401	SPAN_T1	6	5	-1	0.47	0.54	0.07	-1.08	-1.08	1	1	0	600	600	0
2/14/2025 13:42	57403	SPAN_T1	34	28	-6	0.35	0.36	0.01	0	0	0	0	0	0	0	0
2/14/2025 13:42	67605	WARW_T1	27	32	5	0.53	0.49	-0.04	-1.05	-1.06	0	0	0	0	0	0
2/14/2025 13:43	57401	SPAN_T1	6	5	-1	0.47	0.54	0.07	-2.16	-2.17	2	2	0	1200	1200	0
2/14/2025 13:43	57403	SPAN_T1	34	28	-6	0.35	0.36	0.01	0	0	0	0	0	0	0	0
2/14/2025 13:44	10702	CATA_T2	1	1	0	0.1	0.5	0.4	-0.8	-0.79	0	0	0	0	0	0
2/14/2025 13:44	10703	CATA_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
2/14/2025 13:44	41902	REED_T1	4	10	6	0.6	0	-0.6	2.1	2.09	0	0	0	0	0	0
2/14/2025 13:44	41903	REED_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 13:44	10705	CATA_T2	2	2	0	1.55	1.45	-0.1	-0.8	-0.84	1	1	0	900	900	0
2/14/2025 13:45	41902	REED_T1	10	0	-10	0.74	0	-0.74	0	0	0	0	0	0	0	0
2/14/2025 13:45	41903	REED_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/14/2025 13:46	41902	REED_T1	10	0	-10	0.74	0	-0.74	0	0	0	0	0	0	0	0
2/14/2025 13:46	41903	REED_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 13:48	41903	REED_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 13:48	41902	REED_T1	10	0	-10	0.74	0	-0.74	0	0	0	0	0	0	0	0
2/14/2025 13:49	50503	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/14/2025 13:49	50502	MECH_T1	1	0	-1	1.5	1.8	0.3	0	0	0	0	0	0	0	0
2/14/2025 13:49	50506	MECH_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/14/2025 13:49	50501	MECH_T1	4	4	0	0.65	0.58	-0.07	0	0	0	0	0	0	0	0
2/14/2025 13:50	54701	NEBL_T1	9	9	0	1	1.12	0.12	0	0	0	0	0	0	0	0
2/14/2025 13:50	40101	HUNT_T2	0	0	0	0	0	0	-1.14	-1.08	0	0	0	0	0	0
2/14/2025 13:53	64101	REFR_T1	2	1	-1	0.55	0.9	0.35	-0.01	-0.03	0	0	0	0	0	0
2/14/2025 13:54	57403	SPAN_T1	27	27	0	0.34	0.36	0.02	0	0	0	0	0	0	0	0
2/14/2025 13:54	57401	SPAN_T1	5	5	0	0.52	0.58	0.06	-1.08	-1.1	1	1	0	600	600	0
2/14/2025 13:55	65601	QVIL_T2	280	288	8	0.36	0.37	0.01	0	0	0	0	0	0	0	0
2/14/2025 13:55	65603	QVIL_T2	291	284	-7	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
2/14/2025 13:55	57403	SPAN_T1	27	27	0	0.34	0.36	0.02	0	0	0	0	0	0	0	0
2/14/2025 13:55	65602	QVIL_T2	110	123	13	0.43	0.43	0	0	0	0	0	0	0	0	0
2/14/2025 13:55	57401	SPAN_T1	5	5	0	0.52	0.58	0.06	-1.08	-1.1	1	1	0	600	600	0
2/14/2025 13:55	65604	QVIL_T2	6	6	0	0.52	0.53	0.01	0.6	0.59	0	0	0	0	0	0
2/14/2025 13:56	24901	WHHA_T1	0	1	1	0	0	0	-0.72	-0.72	0	0	0	0	0	0
2/14/2025 13:56	24902	WHHA_T1	4	6	2	0.98	1	0.02	0	0	0	0	0	0	0	0
2/14/2025 13:57	24105	EHAZ_T1	4	4	0	6.75	6.78	0.03	-1.95	-1.98	1	1	0	1200	1200	0
2/14/2025 13:57	24101	EHAZ_T1	26	29	3	0.37	0.24	-0.13	0	0	0	0	0	0	0	0
2/14/2025 13:57	57401	SPAN_T1	5	5	0	0.52	0.58	0.06	-1.08	-1.1	1	1	0	600	600	0
2/14/2025 13:57	24104	EHAZ_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/14/2025 13:57	57403	SPAN_T1	27	27	0	0.34	0.36	0.02	0	0	0	0	0	0	0	0
2/14/2025 13:57	24103	EHAZ_T1	7	7	0	1.1	1.27	0.17	0	0	0	0	0	0	0	0
2/14/2025 13:57	24102	EHAZ_T1	7	7	0	1.61	1.18	-0.43	0	0	0	0	0	0	0	0
2/14/2025 13:58	57403	SPAN_T1	27	27	0	0.34	0.36	0.02	0	0	0	0	0	0	0	0
2/14/2025 13:58	57401	SPAN_T1	5	5	0	0.52	0.58	0.06	-1.08	-1.1	1	1	0	600	600	0
2/14/2025 13:58	10703	CATA_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
2/14/2025 13:58	10702	CATA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/14/2025 13:58	10707	CATA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/14/2025 13:58	10705	CATA_T2	2	2	0	1.45	0.8	-0.65	-0.84	-0.87	1	1	0	900	900	0
2/14/2025 13:59	24901	WHHA_T1	0	1	1	0	0	0	-0.72	-0.72	0	0	0	0	0	0
2/14/2025 13:59	24902	WHHA_T1	4	6	2	0.98	1	0.02	0	0	0	0	0	0	0	0
2/14/2025 14:01	41902	REED_T1	0	0	0	0	0	0	1.04	1.03	0	0	0	0	0	0
2/14/2025 14:01	41903	REED_T1	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/14/2025 14:02	41903	REED_T1	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/14/2025 14:02	41902	REED_T1	0	0	0	0	0	0	1.04	1.03	0	0	0	0	0	0
2/14/2025 14:03	41903	REED_T1	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/14/2025 14:03	41902	REED_T1	0	0	0	0	0	0	1.04	1.03	0	0	0	0	0	0
2/14/2025 14:04	54505	ENOL_T2	2	2	0	0.95	0.8	-0.15	-2.51	-2.47	2	2	0	1200	1200	0
2/14/2025 14:04	54504	ENOL_T2	1	0	-1	0.1	0	-0.1	-1.03	-1.02	1	1	0	600	600	0
2/14/2025 14:04	54502	ENOL_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
2/14/2025 14:05	54502	ENOL_T2	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
2/14/2025 14:05	50506	MECH_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/14/2025 14:05	50502	MECH_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
2/14/2025 14:05	50501	MECH_T1	4	4	0	0.53	0.58	0.05	0	0	0	0	0	0	0	0
2/14/2025 14:05	54505	ENOL_T2	2	2	0	0.95	0.8	-0.15	-1.26	-1.24	1	1	0	600	600	0
2/14/2025 14:05	54504	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 14:05	50503	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/14/2025 14:06	50501	MECH_T1	4	4	0	0.53	0.58	0.05	0	0.12	0	0	0	0	0	0
2/14/2025 14:06	50503	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/14/2025 14:06	50506	MECH_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/14/2025 14:06	50502	MECH_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
2/14/2025 14:07	50501	MECH_T1	4	4	0	0.53	0.58	0.05	0	0	0	0	0	0	0	0
2/14/2025 14:07	50502	MECH_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
2/14/2025 14:07	50503	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/14/2025 14:07	50506	MECH_T1	0	1	1	0	0.6	0.6	0.02	0.02	0	0	0	0	0	0
2/14/2025 14:08	54602	SUMM_T2	0	9	9	0	0.27	0.27	0	0	0	0	0	0	0	0
2/14/2025 14:08	54603	SUMM_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/14/2025 14:08	67203	TEHI_T1	2	1	-1	0.85	0	-0.85	0	0	0	0	0	0	0	0
2/14/2025 14:08	54601	SUMM_T2	12	10	-2	0.73	0.92	0.19	0	0	0	0	0	0	0	0
2/14/2025 14:08	67201	TEHI_T1	0	0	0	0	0	0	0.79	0.75	1	1	0	900	900	0
2/14/2025 14:09	54603	SUMM_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/14/2025 14:09	52503	PROG_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
2/14/2025 14:09	54602	SUMM_T2	0	9	9	0	0.27	0.27	-2.48	-2.46	1	1	0	600	600	0
2/14/2025 14:09	54601	SUMM_T2	12	10	-2	0.73	0.92	0.19	0	0	0	0	0	0	0	0
2/14/2025 14:10	54601	SUMM_T2	12	10	-2	0.73	0.92	0.19	0	0	0	0	0	0	0	0
2/14/2025 14:10	54603	SUMM_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/14/2025 14:10	54602	SUMM_T2	0	9	9	0	0.27	0.27	0	0	0	0	0	0	0	0
2/14/2025 14:10	45303	WBER_T2	10	10	0	1.15	1.15	0	0	0	0	0	0	0	0	0
2/14/2025 14:10	45302	WBER_T2	0	0	0	0	0	0	0.77	0.78	0	0	0	0	0	0
2/14/2025 14:12	54601	SUMM_T2	12	10	-2	0.73	0.92	0.19	0	0	0	0	0	0	0	0
2/14/2025 14:12	54603	SUMM_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/14/2025 14:12	54602	SUMM_T2	0	9	9	0	0.27	0.27	-2.48	-2.46	1	1	0	600	600	0
2/14/2025 14:13	44801	EDAN_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/14/2025 14:13	44802	EDAN_T2	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
2/14/2025 14:14	41902	REED_T1	0	0	0	0	0	0	1.03	1.06	0	0	0	0	0	0
2/14/2025 14:14	41903	REED_T1	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/14/2025 14:15	44801	EDAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 14:15	44802	EDAN_T2	0	0	0	0	0	0	-3.5	-3.58	0	0	0	0	0	0
2/14/2025 14:15	46801	HEPB_T2	11	18	7	0.28	0.23	-0.05	0.53	0.59	0	0	0	0	0	0
2/14/2025 14:15	46803	HEPB_T2	2	4	2	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
2/14/2025 14:17	46801	HEPB_T2	11	18	7	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
2/14/2025 14:17	46803	HEPB_T2	2	4	2	0.15	0.13	-0.02	0.49	0.53	0	0	0	0	0	0
2/14/2025 14:17	44802	EDAN_T2	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
2/14/2025 14:17	44801	EDAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 14:18	64204	KINZ_T1	24	20	-4	0.55	0.49	-0.06	0	0	0	0	0	0	0	0
2/14/2025 14:18	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 14:24	57004	WHHI_T2	0	0	0	0	0	0	-1.32	-1.27	0	0	0	0	0	0
2/14/2025 14:24	57001	WHHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/14/2025 14:24	57006	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 14:24	57002	WHHI_T2	3	3	0	0.13	0.17	0.04	0	0	0	0	0	0	0	0
2/14/2025 14:26	10707	CATA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/14/2025 14:26	10705	CATA_T2	1	2	1	1	1.2	0.2	-0.89	-0.91	1	1	0	900	900	0
2/14/2025 14:26	10703	CATA_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
2/14/2025 14:26	10702	CATA_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/14/2025 14:27	44301	BEAV_T2	0	3	3	0	0.13	0.13	-0.15	-0.65	1	1	0	600	600	0
2/14/2025 14:27	55101	WERT_T1	0	0	0	0	0	0	-1.03	-1.06	2	2	0	1500	1500	0
2/14/2025 14:27	55105	WERT_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/14/2025 14:28	44301	BEAV_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
2/14/2025 14:28	57002	WHHI_T2	3	3	0	0.13	0.17	0.04	-1.16	-1.17	1	1	0	1200	1200	0
2/14/2025 14:28	57001	WHHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/14/2025 14:28	57006	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 14:30	10703	CATA_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
2/14/2025 14:30	10707	CATA_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
2/14/2025 14:30	10705	CATA_T2	2	2	0	0.45	1.2	0.75	-1.78	-1.82	2	2	0	1800	1800	0
2/14/2025 14:30	10702	CATA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/14/2025 14:30	11202	ELHE_T2	0	0	0	0	0	0	0.41	0.41	1	1	0	1200	1200	0
2/14/2025 14:31	40101	HUNT_T2	0	0	0	0	0	0	-1.28	-1.34	0	0	0	0	0	0
2/14/2025 14:32	46802	HEPB_T1	13	13	0	0.24	0.24	0	-0.25	-0.27	0	0	0	0	0	0
2/14/2025 14:33	40101	HUNT_T2	0	0	0	0	0	0	-1.28	-1.34	0	0	0	0	0	0
2/14/2025 14:34	10703	CATA_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
2/14/2025 14:34	10702	CATA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/14/2025 14:34	10707	CATA_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
2/14/2025 14:34	10705	CATA_T2	2	2	0	0.45	1.2	0.75	-0.89	-0.91	1	1	0	900	900	0
2/14/2025 14:35	44802	EDAN_T2	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
2/14/2025 14:36	65604	QVIL_T2	6	7	1	0.53	0.6	0.07	0.6	0.57	0	0	0	0	0	0
2/14/2025 14:36	65601	QVIL_T2	286	352	66	0.41	0.49	0.08	0	0	0	0	0	0	0	0
2/14/2025 14:36	65602	QVIL_T2	107	170	63	0.39	0.33	-0.06	0	0	0	0	0	0	0	0
2/14/2025 14:36	65603	QVIL_T2	287	476	189	0.21	0.38	0.17	0	0	0	0	0	0	0	0
2/14/2025 14:39	60201	ATGL_T2	81	101	20	0.25	0.27	0.02	0.8	0.99	0	0	0	0	0	0
2/14/2025 14:40	60201	ATGL_T2	81	101	20	0.25	0.27	0.02	1.6	1.97	0	0	0	0	0	0
2/14/2025 14:42	61701	ELIZ_T1	2	2	0	3.05	3.15	0.1	0	0	0	0	0	0	0	0
2/14/2025 14:42	61703	ELIZ_T1	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/14/2025 14:42	40501	CRES_T2	6	10	4	0.23	0.26	0.03	0	0	0	0	0	0	0	0
2/14/2025 14:44	44301	BEAV_T2	3	1	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
2/14/2025 14:44	60201	ATGL_T2	81	101	20	0.25	0.27	0.02	0	0	0	0	0	0	0	0
2/14/2025 14:45	21601	EYNO_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
2/14/2025 14:47	17802	GILB_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
2/14/2025 14:49	55002	NEWP_T1	6	7	1	1	0.97	-0.03	-0.19	-0.21	0	0	0	0	0	0
2/14/2025 14:49	65502	MOJO_T2	0	0	0	0	0	0	-0.56	-0.45	0	0	0	0	0	0
2/14/2025 14:49	41602	CLEV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/14/2025 14:49	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 14:49	55001	NEWP_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/14/2025 14:50	65502	MOJO_T2	0	0	0	0	0	0	-0.56	-0.45	0	0	0	0	0	0
2/14/2025 14:50	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 14:50	55001	NEWP_T1	1	0	-1	0.4	0	-0.4	-0.97	-0.82	0	0	0	0	0	0
2/14/2025 14:50	41602	CLEV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/14/2025 14:50	55002	NEWP_T1	6	7	1	1	0.97	-0.03	0	0	0	0	0	0	0	0
2/14/2025 14:53	60502	NMAN_T2	1	1	0	0.3	0.3	0	-0.32	-0.43	0	0	0	0	0	0
2/14/2025 14:53	60501	NMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/14/2025 14:54	57102	SPHI_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/14/2025 14:54	57103	SPHI_T2	1	1	0	0.2	0.1	-0.1	-0.52	-0.47	0	0	0	0	0	0
2/14/2025 14:54	57104	SPHI_T2	16	9	-7	1.03	0.72	-0.31	-3.72	-2.44	2	0	-2	1800	0	-1800
2/14/2025 14:54	57106	SPHI_T2	4	3	-1	1.6	1.97	0.37	0	0	0	0	0	0	0	0
2/14/2025 14:55	57106	SPHI_T2	4	3	-1	1.6	1.97	0.37	0	0	0	0	0	0	0	0
2/14/2025 14:55	57104	SPHI_T2	16	9	-7	1.03	0.72	-0.31	-3.72	-2.44	2	0	-2	1800	0	-1800
2/14/2025 14:55	57103	SPHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/14/2025 14:55	57102	SPHI_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/14/2025 14:55	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 14:56	57104	SPHI_T2	16	9	-7	1.03	0.72	-0.31	-1.86	-1.22	1	0	-1	900	0	-900
2/14/2025 14:56	57106	SPHI_T2	4	3	-1	1.6	1.97	0.37	0	0	0	0	0	0	0	0
2/14/2025 14:56	57103	SPHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/14/2025 14:56	57102	SPHI_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/14/2025 14:57	57102	SPHI_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/14/2025 14:57	57106	SPHI_T2	4	3	-1	1.6	1.97	0.37	0	0	0	0	0	0	0	0
2/14/2025 14:57	57104	SPHI_T2	16	9	-7	1.03	0.72	-0.31	0	0	0	0	0	0	0	0
2/14/2025 14:57	57103	SPHI_T2	1	1	0	0.2	0.1	-0.1	-0.26	-0.24	0	0	0	0	0	0
2/14/2025 14:58	57106	SPHI_T2	4	3	-1	1.6	1.97	0.37	0	0	0	0	0	0	0	0
2/14/2025 14:58	57102	SPHI_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/14/2025 14:58	57104	SPHI_T2	16	9	-7	1.03	0.72	-0.31	-3.72	-2.44	2	0	-2	1800	0	-1800
2/14/2025 14:58	57103	SPHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/14/2025 14:59	57102	SPHI_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/14/2025 14:59	57103	SPHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/14/2025 14:59	57104	SPHI_T2	16	9	-7	1.03	0.72	-0.31	0	0	0	0	0	0	0	0
2/14/2025 14:59	57106	SPHI_T2	4	3	-1	1.6	1.97	0.37	0	0	0	0	0	0	0	0
2/14/2025 15:00	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 15:01	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 15:01	46101	MACI_T2	0	0	0	0	0	0	0.02	0	1	1	0	1200	1200	0
2/14/2025 15:04	10705	CATA_T2	2	2	0	0.9	0.85	-0.05	-0.92	-0.91	1	1	0	900	900	0
2/14/2025 15:04	10703	CATA_T2	1	2	1	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
2/14/2025 15:04	10707	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/14/2025 15:04	10702	CATA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/14/2025 15:05	55002	NEWP_T1	6	7	1	0.9	0.83	-0.07	-0.21	-0.19	0	0	0	0	0	0
2/14/2025 15:05	44201	POIN_T1	98	126	28	0.27	0.29	0.02	-4	-4.01	4	4	0	4200	4200	0
2/14/2025 15:06	44201	POIN_T1	98	126	28	0.27	0.29	0.02	-2	-2.01	2	2	0	2100	2100	0
2/14/2025 15:07	44901	SCOT_T2	324	344	20	0.54	0.64	0.1	0.11	0.08	0	0	0	0	0	0
2/14/2025 15:07	64101	REFR_T1	1	0	-1	0.1	0	-0.1	-0.04	-0.03	0	0	0	0	0	0
2/14/2025 15:07	44902	SCOT_T2	702	744	42	0.65	0.72	0.07	0	0	0	0	0	0	0	0
2/14/2025 15:07	44201	POIN_T1	98	126	28	0.27	0.29	0.02	-2	-2.01	2	2	0	2100	2100	0
2/14/2025 15:09	44201	POIN_T1	98	126	28	0.27	0.29	0.02	-2	-2.01	2	2	0	2100	2100	0
2/14/2025 15:09	44203	POIN_T2	0	0	0	0	0	0	-0.99	-1.04	2	2	0	2100	2100	0
2/14/2025 15:10	18001	ZION_T1	2	2	0	9.35	9.6	0.25	0	0	0	0	0	0	0	0
2/14/2025 15:11	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 15:11	46001	BERW_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
2/14/2025 15:11	46005	BERW_T1	11	0	-11	0.55	0	-0.55	0	0	0	0	0	0	0	0
2/14/2025 15:12	18001	ZION_T1	2	2	0	9.35	9.6	0.25	0	0	0	0	0	0	0	0
2/14/2025 15:12	44902	SCOT_T2	702	744	42	0.65	0.72	0.07	0	0	0	0	0	0	0	0
2/14/2025 15:12	44901	SCOT_T2	324	344	20	0.54	0.64	0.1	0.11	0.08	0	0	0	0	0	0
2/14/2025 15:14	61703	ELIZ_T1	1	1	0	0.4	0.5	0.1	-0.96	-1.09	1	1	0	900	900	0
2/14/2025 15:14	61701	ELIZ_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
2/14/2025 15:22	43402	BENT_T1	34	55	21	0.25	0.24	-0.01	-0.94	-0.94	1	1	0	900	900	0
2/14/2025 15:23	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
2/14/2025 15:24	57104	SPHI_T2	5	6	1	1.16	2	0.84	0	0	0	0	0	0	0	0
2/14/2025 15:24	57106	SPHI_T2	3	3	0	1.77	1.87	0.1	0	0	0	0	0	0	0	0
2/14/2025 15:24	44201	POIN_T1	125	98	-27	0.29	0.26	-0.03	-2.01	-2.04	2	2	0	2100	2100	0
2/14/2025 15:27	20403	ASHF_T2	3	0	-3	0.27	0	-0.27	0.22	0.2	0	0	0	0	0	0
2/14/2025 15:27	20401	ASHF_T2	9	6	-3	0.71	0.75	0.04	0	0	0	0	0	0	0	0
2/14/2025 15:27	20402	ASHF_T2	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
2/14/2025 15:28	62106	ELAN_T1	1	1	0	0.4	0.2	-0.2	0.02	0.01	0	0	0	0	0	0
2/14/2025 15:29	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 15:30	62106	ELAN_T1	1	0	-1	0.2	0	-0.2	0.02	0.01	0	0	0	0	0	0
2/14/2025 15:33	54503	ENOL_T2	0	0	0	0	0	0	-0.39	-0.37	1	1	0	600	600	0
2/14/2025 15:33	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/14/2025 15:33	54505	ENOL_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
2/14/2025 15:34	52404	GRPA_T2	2	1	-1	0.8	1.2	0.4	0	0	0	0	0	0	0	0
2/14/2025 15:34	52402	GRPA_T2	9	4	-5	0.63	0.75	0.12	0	0	0	0	0	0	0	0
2/14/2025 15:34	52403	GRPA_T2	157	105	-52	0.44	0.36	-0.08	-0.5	-0.46	0	0	0	0	0	0
2/14/2025 15:34	52401	GRPA_T2	26	4	-22	0.28	0.18	-0.1	0	0	0	0	0	0	0	0
2/14/2025 15:34	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/14/2025 15:34	54505	ENOL_T2	1	1	0	1.2	1.1	-0.1	-1.28	-1.29	1	1	0	600	600	0
2/14/2025 15:35	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/14/2025 15:35	54505	ENOL_T2	1	1	0	1.2	1.1	-0.1	-1.28	-1.29	1	1	0	600	600	0
2/14/2025 15:37	57205	ROSS_T1	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
2/14/2025 15:37	57201	ROSS_T1	1	0	-1	0.2	0	-0.2	-0.5	-0.54	0	0	0	0	0	0
2/14/2025 15:40	57201	ROSS_T1	1	0	-1	0.2	0	-0.2	-0.5	-0.54	0	0	0	0	0	0
2/14/2025 15:40	57205	ROSS_T1	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
2/14/2025 15:41	53601	DALM_T2	0	0	0	0	0	0	0.18	0.19	1	1	0	600	600	0
2/14/2025 15:42	22003	BOHE_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/14/2025 15:43	22002	BOHE_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
2/14/2025 15:43	22003	BOHE_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/14/2025 15:48	10401	LIGA_T1	21	20	-1	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
2/14/2025 15:51	45802	HEGI_T2	47	44	-3	1.29	1.12	-0.17	0	0	0	0	0	0	0	0
2/14/2025 15:52	54204	PENN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 15:52	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 15:52	54202	PENN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/14/2025 15:53	67401	WAKE_T2	51	21	-30	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
2/14/2025 15:53	67402	WAKE_T2	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
2/14/2025 15:56	67401	WAKE_T2	51	21	-30	0.33	0.2	-0.13	-1.14	-1.12	0	0	0	0	0	0
2/14/2025 15:57	67401	WAKE_T2	51	21	-30	0.33	0.2	-0.13	0	0	0	0	0	0	0	0
2/14/2025 15:57	67402	WAKE_T2	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
2/14/2025 16:03	45801	HEGI_T1	0	0	0	0	0	0	-0.29	-0.3	1	1	0	900	900	0
2/14/2025 16:04	45801	HEGI_T1	0	0	0	0	0	0	-0.29	-0.3	1	1	0	900	900	0
2/14/2025 16:08	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 16:12	24901	WHHA_T1	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
2/14/2025 16:12	24902	WHHA_T1	5	8	3	0.58	0.84	0.26	0	0	0	0	0	0	0	0
2/14/2025 16:18	12001	HATF_T1	4	4	0	1.78	1.9	0.12	0	0	0	0	0	0	0	0
2/14/2025 16:18	12006	HATF_T1	0	1	1	0	0	0	0.18	0.16	1	1	0	1200	1200	0
2/14/2025 16:23	59402	RFLD_T2	0	0	0	0	0	0	-0.89	0	1	1	0	450	450	0
2/14/2025 16:25	59402	RFLD_T2	0	0	0	0	0	0	-0.89	0	1	1	0	450	450	0
2/14/2025 16:39	43402	BENT_T1	0	0	0	0	0	0	0	-0.94	1	1	0	900	900	0
2/14/2025 16:40	44904	SCOT_T1	0	0	0	0	0	0	0	0.51	0	0	0	0	0	0
2/14/2025 16:41	43402	BENT_T1	0	0	0	0	0	0	0	-0.94	1	1	0	900	900	0
2/14/2025 16:42	60801	BUCK_T1	73	62	-11	0.52	0.53	0.01	0	0	0	0	0	0	0	0
2/14/2025 16:42	60803	BUCK_T1	33	26	-7	0.62	0.63	0.01	0	-0.5	1	1	0	600	600	0
2/14/2025 16:43	60803	BUCK_T1	33	26	-7	0.62	0.63	0.01	0	-1	2	2	0	1200	1200	0
2/14/2025 16:43	60801	BUCK_T1	73	62	-11	0.52	0.53	0.01	0	0	0	0	0	0	0	0
2/14/2025 16:44	60803	BUCK_T1	33	26	-7	0.62	0.63	0.01	0	-1	2	2	0	1200	1200	0
2/14/2025 16:44	60801	BUCK_T1	73	62	-11	0.52	0.53	0.01	0	-0.58	0	0	0	0	0	0
2/14/2025 16:45	60803	BUCK_T1	26	27	1	0.62	0.73	0.11	0	0	0	0	0	0	0	0
2/14/2025 16:45	60801	BUCK_T1	62	67	5	0.53	0.54	0.01	0	-0.19	0	0	0	0	0	0
2/14/2025 16:46	16101	BING_T2	0	0	0	0	0	0	0	0.47	0	0	0	0	0	0
2/14/2025 16:48	23301	JEFF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 16:54	45602	WOOL_T1	0	0	0	0	0	0	0.56	0.6	0	0	0	0	0	0
2/14/2025 17:00	47901	HRDG_T1	0	0	0	0	0	0	1.99	1.72	0	0	0	0	0	0
2/14/2025 17:02	44902	SCOT_T2	512	478	-34	0.46	0.32	-0.14	0	0	0	0	0	0	0	0
2/14/2025 17:02	44901	SCOT_T2	41	7	-34	0.17	0.1	-0.07	0.02	-0.08	0	0	0	0	0	0
2/14/2025 17:09	67402	WAKE_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
2/14/2025 17:09	67401	WAKE_T2	0	5	5	0	0.13	0.13	0	0	0	0	0	0	0	0
2/14/2025 17:12	40501	CRES_T2	10	8	-2	0.36	0.18	-0.18	0	0	0	0	0	0	0	0
2/14/2025 17:12	16102	BING_T2	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
2/14/2025 17:58	57103	SPHI_T2	0	0	0	0	0	0	-0.14	-0.81	0	1	1	0	600	600
2/14/2025 17:58	57106	SPHI_T2	3	3	0	1.03	0.9	-0.13	0	0	0	0	0	0	0	0
2/14/2025 17:58	57104	SPHI_T2	2	2	0	3.45	3	-0.45	0	0	0	0	0	0	0	0
2/14/2025 18:02	65602	QVIL_T2	2	5	3	0.2	0.2	0	0	0	0	0	0	0	0	0
2/14/2025 18:02	65603	QVIL_T2	2	2	0	0.15	0.15	0	0.19	0.19	0	0	0	0	0	0
2/14/2025 18:02	65604	QVIL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/14/2025 18:02	65601	QVIL_T2	17	16	-1	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
2/14/2025 18:08	46203	DANV_T2	25	22	-3	0.52	0.51	-0.01	-0.75	-0.67	0	0	0	0	0	0
2/14/2025 18:42	54503	ENOL_T2	0	0	0	0	0	0	-0.35	-0.35	1	1	0	600	600	0
2/14/2025 19:13	44601	SALE_T2	0	0	0	0	0	0	-0.2	-0.26	0	0	0	0	0	0
2/14/2025 19:13	66703	STRA_T1	0	0	0	0	0	0	-0.91	-0.89	0	0	0	0	0	0
2/14/2025 19:13	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:16	46203	DANV_T2	11	23	12	0.44	0.46	0.02	-0.71	-0.75	0	0	0	0	0	0
2/14/2025 19:20	23401	HONE_T2	28	26	-2	0.6	0.31	-0.29	0.2	0.21	0	0	0	0	0	0
2/14/2025 19:22	65702	RVIL_T2	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
2/14/2025 19:25	65702	RVIL_T2	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
2/14/2025 19:25	46203	DANV_T2	11	23	12	0.44	0.46	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:25	46206	DANV_T2	0	0	0	0	0	0	0.64	0.58	1	1	0	900	900	0
2/14/2025 19:26	65702	RVIL_T2	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
2/14/2025 19:26	46203	DANV_T2	11	23	12	0.44	0.46	0.02	-0.75	-0.73	0	0	0	0	0	0
2/14/2025 19:28	24902	WHHA_T1	8	10	2	0.66	0.51	-0.15	0.85	0.86	0	0	0	0	0	0
2/14/2025 19:28	46203	DANV_T2	11	23	12	0.44	0.46	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:28	46206	DANV_T2	0	0	0	0	0	0	0.64	0.58	1	1	0	900	900	0
2/14/2025 19:31	17805	GILB_T2	0	0	0	0	0	0	-0.74	-0.77	0	0	0	0	0	0
2/14/2025 19:32	17805	GILB_T2	0	0	0	0	0	0	-0.74	-0.77	0	0	0	0	0	0
2/14/2025 19:32	25801	SUTR_T2	2	3	1	9.7	9.65	-0.05	-0.59	-0.58	0	0	0	0	0	0
2/14/2025 19:33	66903	SHIL_T2	0	0	0	0	0	0	-1.25	-1.25	0	0	0	0	0	0
2/14/2025 19:33	24105	EHAZ_T1	16	16	0	2.73	2.28	-0.45	-1.95	-1.94	1	1	0	1200	1200	0
2/14/2025 19:33	17802	GILB_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
2/14/2025 19:33	24101	EHAZ_T1	41	41	0	1.88	1.97	0.09	0	0	0	0	0	0	0	0
2/14/2025 19:33	24102	EHAZ_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/14/2025 19:34	22805	HAUT_T2	38	42	4	1.28	1.32	0.04	0	0	0	0	0	0	0	0
2/14/2025 19:34	24902	WHHA_T1	9	11	2	0.5	0.63	0.13	0.85	0.86	0	0	0	0	0	0
2/14/2025 19:34	20603	GRWO_T2	16	12	-4	0.37	0	-0.37	0	0	0	0	0	0	0	0
2/14/2025 19:34	14403	SSLA_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
2/14/2025 19:34	14402	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:34	22803	HAUT_T2	26	33	7	1.04	0.35	-0.69	0	0	0	0	0	0	0	0
2/14/2025 19:34	10602	BLGL_T2	1	1	0	6.8	7.5	0.7	0.4	0.39	0	0	0	0	0	0
2/14/2025 19:34	29402	BELT_T1	7	3	-4	1.26	6.5	5.24	0	0	0	0	0	0	0	0
2/14/2025 19:34	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:34	20601	GRWO_T2	1	1	0	0.5	0	-0.5	-0.07	-0.05	0	0	0	0	0	0
2/14/2025 19:34	16302	ALPA_T2	0	0	0	0	0	0	-0.57	-0.53	0	0	0	0	0	0
2/14/2025 19:34	14401	SSLA_T1	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
2/14/2025 19:35	46002	BERW_T2	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
2/14/2025 19:35	44801	EDAN_T2	1	1	0	0.9	0.4	-0.5	-0.45	-0.4	0	0	0	0	0	0
2/14/2025 19:35	29402	BELT_T1	7	3	-4	1.26	6.5	5.24	0	0	0	0	0	0	0	0
2/14/2025 19:35	44201	POIN_T1	0	10	10	0	0.11	0.11	-2.02	-2.04	2	2	0	2100	2100	0
2/14/2025 19:35	41202	KENM_T2	0	0	0	0	0	0	0.6	0.62	0	0	0	0	0	0
2/14/2025 19:35	61001	DONV_T1	0	0	0	0	0	0	-0.46	-0.56	0	0	0	0	0	0
2/14/2025 19:35	46004	BERW_T2	3	3	0	0.97	0.55	-0.42	0	0	0	0	0	0	0	0
2/14/2025 19:36	25404	LAHA_T2	3	2	-1	1.23	0.7	-0.53	0	0	0	0	0	0	0	0
2/14/2025 19:36	14802	TREI_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
2/14/2025 19:36	61701	ELIZ_T1	1	1	0	4.9	5.3	0.4	0.12	0.05	0	0	0	0	0	0
2/14/2025 19:36	14801	TREI_T2	0	0	0	0	0	0	0.76	0.68	0	0	0	0	0	0
2/14/2025 19:36	18001	ZION_T1	2	2	0	8.6	8.65	0.05	0	0	0	0	0	0	0	0
2/14/2025 19:36	44902	SCOT_T2	239	432	193	0.2	0.31	0.11	0	0	0	0	0	0	0	0
2/14/2025 19:36	45303	WBER_T2	2	6	4	4.25	1.53	-2.72	0	0	0	0	0	0	0	0
2/14/2025 19:36	29402	BELT_T1	7	3	-4	1.26	6.5	5.24	0	0	0	0	0	0	0	0
2/14/2025 19:36	17802	GILB_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
2/14/2025 19:36	25501	MADI_T1	66	70	4	0.54	0.7	0.16	0	0	0	0	0	0	0	0
2/14/2025 19:36	45302	WBER_T2	0	0	0	0	0	0	0.67	0.63	0	0	0	0	0	0
2/14/2025 19:36	10805	CHHI_T2	1	1	0	8.4	8.6	0.2	-1.14	-1.15	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/14/2025 19:36	44901	SCOT_T2	0	2	2	0	0.1	0.1	-0.03	-0.06	0	0	0	0	0	0
2/14/2025 19:36	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
2/14/2025 19:36	25503	MADI_T1	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/14/2025 19:36	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:36	25402	LAHA_T2	533	479	-54	2.39	1.99	-0.4	-0.42	-0.42	0	0	0	0	0	0
2/14/2025 19:36	45501	DERR_T2	0	0	0	0	0	0	0.16	0.12	2	2	0	1800	1800	0
2/14/2025 19:36	46004	BERW_T2	3	3	0	0.97	0.55	-0.42	-0.68	-0.67	0	0	0	0	0	0
2/14/2025 19:36	23301	JEFF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:36	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/14/2025 19:37	47403	PENS_T1	1	0	-1	1.6	0	-1.6	0	0	0	0	0	0	0	0
2/14/2025 19:37	52402	GRPA_T2	4	2	-2	0.43	0.95	0.52	0	0	0	0	0	0	0	0
2/14/2025 19:37	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/14/2025 19:37	47401	PENS_T1	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
2/14/2025 19:37	24901	WHHA_T1	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
2/14/2025 19:37	52401	GRPA_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
2/14/2025 19:37	63501	HEID_TBK1-2	33	38	5	0.35	0.54	0.19	-0.52	-0.48	1	1	0	900	900	0
2/14/2025 19:37	52403	GRPA_T2	1	3	2	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
2/14/2025 19:37	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:37	46802	HEPB_T1	0	0	0	0	0	0	-0.21	-0.3	0	0	0	0	0	0
2/14/2025 19:37	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/14/2025 19:37	44802	EDAN_T2	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
2/14/2025 19:37	24902	WHHA_T1	9	11	2	0.5	0.63	0.13	0	0	0	0	0	0	0	0
2/14/2025 19:37	44801	EDAN_T2	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
2/14/2025 19:38	40101	HUNT_T2	4	5	1	1.53	0.1	-1.43	-1.42	-1.43	0	0	0	0	0	0
2/14/2025 19:38	44904	SCOT_T1	0	0	0	0	0	0	0.57	0.53	0	0	0	0	0	0
2/14/2025 19:38	45801	HEGI_T1	0	0	0	0	0	0	-0.37	-0.41	1	1	0	900	900	0
2/14/2025 19:38	45501	DERR_T2	0	0	0	0	0	0	0.16	0.12	2	2	0	1800	1800	0
2/14/2025 19:38	40505	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:38	10702	CATA_T2	0	0	0	0	0	0	-0.87	-0.88	0	0	0	0	0	0
2/14/2025 19:38	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:38	67106	SPRI_T2	0	0	0	0	0	0	-1.26	-1.25	1	1	0	900	900	0
2/14/2025 19:38	54203	PENN_T1	18	18	0	0.52	0.67	0.15	0.62	0.67	0	0	0	0	0	0
2/14/2025 19:38	44801	EDAN_T2	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
2/14/2025 19:38	59301	MCAL_T1	3	5	2	0.63	0.56	-0.07	-1.23	-1.23	0	0	0	0	0	0
2/14/2025 19:38	44802	EDAN_T2	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
2/14/2025 19:38	59302	MCAL_T1	2	1	-1	0.5	1	0.5	0	0	0	0	0	0	0	0
2/14/2025 19:38	10705	CATA_T2	0	0	0	0	0	0	-0.85	-0.81	1	1	0	900	900	0
2/14/2025 19:38	16302	ALPA_T2	0	0	0	0	0	0	-0.53	-0.58	0	0	0	0	0	0
2/14/2025 19:38	55002	NEWP_T1	3	4	1	0.73	0.65	-0.08	0	0	0	0	0	0	0	0
2/14/2025 19:38	14402	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:38	10801	CHHI_T1	0	0	0	0	0	0	-2.06	-2.03	3	3	0	2100	2100	0
2/14/2025 19:38	44301	BEAV_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
2/14/2025 19:38	40802	EXCH_T2	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
2/14/2025 19:38	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	-0.94	-0.95	1	1	0	600	600	0
2/14/2025 19:38	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:38	14403	SSLA_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
2/14/2025 19:38	44201	POIN_T1	0	10	10	0	0.11	0.11	-4.08	-4.11	4	4	0	4200	4200	0
2/14/2025 19:38	54201	PENN_T1	3	3	0	1.47	1.27	-0.2	-0.06	-0.05	0	0	0	0	0	0
2/14/2025 19:38	13303	ORVI_T1	0	0	0	0	0	0	0.82	0.82	0	0	0	0	0	0
2/14/2025 19:38	14401	SSLA_T1	0	0	0	0	0	0	-0.47	-0.51	0	0	0	0	0	0
2/14/2025 19:39	46005	BERW_T1	11	0	-11	0.29	0	-0.29	0	0	0	0	0	0	0	0
2/14/2025 19:39	44901	SCOT_T2	0	2	2	0	0.1	0.1	-0.03	-0.06	0	0	0	0	0	0
2/14/2025 19:39	46101	MACI_T2	0	0	0	0	0	0	-0.55	-0.55	1	1	0	1200	1200	0
2/14/2025 19:39	40501	CRES_T2	3	6	3	0.17	0.18	0.01	0	0	0	0	0	0	0	0
2/14/2025 19:39	20402	ASHF_T2	6	2	-4	0.98	0.2	-0.78	0	0	0	0	0	0	0	0
2/14/2025 19:39	22003	BOHE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:39	46001	BERW_T1	0	0	0	0	0	0	0.71	0.72	0	0	0	0	0	0
2/14/2025 19:39	54201	PENN_T1	3	3	0	1.47	1.27	-0.2	-0.06	-0.05	0	0	0	0	0	0
2/14/2025 19:39	67303	WYOM_T2	0	0	0	0	0	0	-0.57	-0.55	0	0	0	0	0	0
2/14/2025 19:39	20401	ASHF_T2	3	3	0	0.17	0.23	0.06	0	0	0	0	0	0	0	0
2/14/2025 19:39	22002	BOHE_T1	0	0	0	0	0	0	0.43	0.46	0	0	0	0	0	0
2/14/2025 19:39	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:39	57401	SPAN_T1	0	0	0	0	0	0	-0.67	-0.65	1	1	0	600	600	0
2/14/2025 19:39	55002	NEWP_T1	3	4	1	0.73	0.65	-0.08	0	0	0	0	0	0	0	0
2/14/2025 19:39	24902	WHHA_T1	9	11	2	0.5	0.63	0.13	0	0	0	0	0	0	0	0
2/14/2025 19:39	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	-0.94	-0.95	1	1	0	600	600	0
2/14/2025 19:39	44902	SCOT_T2	239	432	193	0.2	0.31	0.11	0	0	0	0	0	0	0	0
2/14/2025 19:39	20403	ASHF_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
2/14/2025 19:39	44201	POIN_T1	0	10	10	0	0.11	0.11	-2.04	-2.05	2	2	0	2100	2100	0
2/14/2025 19:39	54203	PENN_T1	18	18	0	0.52	0.67	0.15	0	0	0	0	0	0	0	0
2/14/2025 19:39	24901	WHHA_T1	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
2/14/2025 19:39	45501	DERR_T2	0	0	0	0	0	0	0.16	0.12	2	2	0	1800	1800	0
2/14/2025 19:40	64202	KINZ_T1	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
2/14/2025 19:40	62105	ELAN_T1	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
2/14/2025 19:40	63501	HEID_TBK1-2	33	38	5	0.35	0.54	0.19	-0.52	-0.48	1	1	0	900	900	0
2/14/2025 19:40	65601	QVIL_T2	68	75	7	0.24	0.26	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:40	45501	DERR_T2	0	0	0	0	0	0	0.16	0.12	2	2	0	1800	1800	0
2/14/2025 19:40	18001	ZION_T1	2	2	0	8.6	8.65	0.05	0	0	0	0	0	0	0	0
2/14/2025 19:40	41902	REED_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:40	64903	MILL_T2	0	0	0	0	0	0	0.32	0.39	0	0	0	0	0	0
2/14/2025 19:40	14801	TREI_T2	0	0	0	0	0	0	1.35	1.39	0	0	0	0	0	0
2/14/2025 19:40	17401	FOHI_T1	0	0	0	0	0	0	-1	-1.02	0	0	0	0	0	0
2/14/2025 19:40	65604	QVIL_T2	3	3	0	0.3	0.5	0.2	0.47	0.5	0	0	0	0	0	0
2/14/2025 19:40	16103	BING_T2	0	0	0	0	0	0	-2.14	-2.14	2	2	0	1500	1500	0
2/14/2025 19:40	57403	SPAN_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
2/14/2025 19:40	65603	QVIL_T2	33	43	10	0.17	0.19	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:40	41903	REED_T1	0	0	0	0	0	0	-0.52	-0.53	1	1	0	1200	1200	0
2/14/2025 19:40	40505	CRES_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
2/14/2025 19:40	24902	WHHA_T1	9	11	2	0.5	0.63	0.13	0.86	0.84	0	0	0	0	0	0
2/14/2025 19:40	44802	EDAN_T2	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
2/14/2025 19:40	42501	ALTA_T2	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/14/2025 19:40	44301	BEAV_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
2/14/2025 19:40	61802	EELI_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
2/14/2025 19:40	64203	KINZ_T1	0	0	0	0	0	0	-0.42	-0.41	1	1	0	600	600	0
2/14/2025 19:40	65602	QVIL_T2	20	24	4	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
2/14/2025 19:40	44502	HAMI_T2	1	0	-1	2.4	2.6	0.2	0.02	0.02	0	0	0	0	0	0
2/14/2025 19:40	59302	MCAL_T1	2	1	-1	0.5	1	0.5	0	0	0	0	0	0	0	0
2/14/2025 19:40	10705	CATA_T2	0	0	0	0	0	0	-2.56	-2.42	3	3	0	2700	2700	0
2/14/2025 19:40	54201	PENN_T1	3	3	0	1.47	1.27	-0.2	-0.06	-0.05	0	0	0	0	0	0
2/14/2025 19:40	40501	CRES_T2	3	6	3	0.17	0.18	0.01	0	0	0	0	0	0	0	0
2/14/2025 19:40	54001	SDLE_T1	5	6	1	0.96	1.12	0.16	0	0	0	0	0	0	0	0
2/14/2025 19:40	64204	KINZ_T1	1	2	1	0.6	0.6	0	0	0	0	0	0	0	0	0
2/14/2025 19:40	61801	EELI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/14/2025 19:40	64201	KINZ_T1	5	7	2	0.3	0.44	0.14	0	0	0	0	0	0	0	0
2/14/2025 19:40	10801	CHHI_T1	0	0	0	0	0	0	-2.06	-2.03	3	3	0	2100	2100	0
2/14/2025 19:40	57401	SPAN_T1	0	0	0	0	0	0	-0.67	-0.65	1	1	0	600	600	0
2/14/2025 19:40	44801	EDAN_T2	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
2/14/2025 19:40	42504	ALTA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 19:40	59301	MCAL_T1	3	5	2	0.63	0.56	-0.07	-2.46	-2.46	0	0	0	0	0	0
2/14/2025 19:40	16302	ALPA_T2	0	0	0	0	0	0	-1.06	-1.16	0	0	0	0	0	0
2/14/2025 19:40	54203	PENN_T1	18	18	0	0.52	0.67	0.15	0	0	0	0	0	0	0	0
2/14/2025 19:40	16102	BING_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
2/14/2025 19:40	53501	EVIL_T2	2	1	-1	0.55	0.3	-0.25	-0.6	-0.66	0	0	0	0	0	0
2/14/2025 19:41	57104	SPHI_T2	3	3	0	3.3	1.45	-1.85	-1.14	-1.16	0	0	0	0	0	0
2/14/2025 19:41	53901	HALI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/14/2025 19:41	63501	HEID_TBK1-2	33	38	5	0.35	0.54	0.19	-0.52	-0.48	1	1	0	900	900	0
2/14/2025 19:41	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	-0.94	-0.95	1	1	0	600	600	0
2/14/2025 19:41	25503	MADI_T1	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/14/2025 19:41	57101	SPHI_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 19:41	63602	LETO_T1	0	0	0	0	0	0	-0.42	-0.46	0	0	0	0	0	0
2/14/2025 19:41	60803	BUCK_T1	20	20	0	0.47	0.5	0.03	-0.5	-0.48	1	1	0	600	600	0
2/14/2025 19:41	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:41	62106	ELAN_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
2/14/2025 19:41	57103	SPHI_T2	0	0	0	0	0	0	-0.8	-0.81	1	1	0	600	600	0
2/14/2025 19:41	61801	EELI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/14/2025 19:41	25501	MADI_T1	66	70	4	0.54	0.7	0.16	0	0	1	1	0	600	600	0
2/14/2025 19:41	48602	POCA_T1	0	0	0	0	0	0	1.19	1.19	0	0	0	0	0	0
2/14/2025 19:41	54001	SDLE_T1	5	6	1	0.96	1.12	0.16	0	0	0	0	0	0	0	0
2/14/2025 19:41	55002	NEWP_T1	3	4	1	0.73	0.65	-0.08	-0.2	-0.2	0	0	0	0	0	0
2/14/2025 19:41	40902	JESH_T1	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
2/14/2025 19:41	60801	BUCK_T1	36	41	5	0.35	0.37	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:41	41902	REED_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:41	67603	WARW_T1	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
2/14/2025 19:41	42504	ALTA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 19:41	54505	ENOL_T2	0	1	1	0	0.2	0.2	-2.28	-2.27	2	2	0	1200	1200	0
2/14/2025 19:41	53903	HALI_T2	2	2	0	0.75	1.05	0.3	-0.04	-0.05	0	0	0	0	0	0
2/14/2025 19:41	44201	POIN_T1	0	10	10	0	0.11	0.11	-2.04	-2.05	2	2	0	2100	2100	0
2/14/2025 19:41	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	2	2	0	1800	1800	0
2/14/2025 19:41	56501	ROCK_T2	2	2	0	0.75	0.55	-0.2	-0.93	-0.94	0	0	0	0	0	0
2/14/2025 19:41	42501	ALTA_T2	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/14/2025 19:41	53902	HALI_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
2/14/2025 19:41	22602	KIMB_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
2/14/2025 19:41	40901	JESH_T1	1	1	0	1.6	1.1	-0.5	0	0	0	0	0	0	0	0
2/14/2025 19:41	40802	EXCH_T2	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
2/14/2025 19:41	57106	SPHI_T2	3	3	0	1.47	1.6	0.13	0	0	0	0	0	0	0	0
2/14/2025 19:41	40101	HUNT_T2	4	5	1	1.53	0.1	-1.43	-1.42	-1.43	0	0	0	0	0	0
2/14/2025 19:41	41903	REED_T1	0	0	0	0	0	0	-0.52	-0.53	1	1	0	1200	1200	0
2/14/2025 19:41	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:42	65603	QVIL_T2	33	43	10	0.17	0.19	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:42	61301	EARL_T1	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
2/14/2025 19:42	63804	HEMP_T1	1	5	4	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
2/14/2025 19:42	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/14/2025 19:42	64101	RERR_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
2/14/2025 19:42	65604	QVIL_T2	3	3	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/14/2025 19:42	10401	LIGA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:42	63802	HEMP_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
2/14/2025 19:42	46004	BERW_T2	3	3	0	0.97	0.55	-0.42	-1.36	-1.34	0	0	0	0	0	0
2/14/2025 19:42	59102	WALK_T2	60	85	25	0.46	0.46	0	0	0	0	0	0	0	0	0
2/14/2025 19:42	57401	SPAN_T1	0	0	0	0	0	0	-0.67	-0.65	1	1	0	600	600	0
2/14/2025 19:42	59101	WALK_T2	1	1	0	0.5	0.6	0.1	-0.47	-0.42	0	0	0	0	0	0
2/14/2025 19:42	63501	HEID_TBK1-2	33	38	5	0.35	0.54	0.19	-0.52	-0.48	1	1	0	900	900	0
2/14/2025 19:42	52503	PROG_T2	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
2/14/2025 19:42	45402	WBLO_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/14/2025 19:42	50502	MECH_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
2/14/2025 19:42	24102	EHAZ_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/14/2025 19:42	64202	KINZ_T1	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
2/14/2025 19:42	50501	MECH_T1	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
2/14/2025 19:42	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:42	45501	DERR_T2	0	0	0	0	0	0	0.16	0.12	2	2	0	1800	1800	0
2/14/2025 19:42	61304	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 19:42	62105	ELAN_T1	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
2/14/2025 19:42	64201	KINZ_T1	5	7	2	0.3	0.44	0.14	0	0	0	0	0	0	0	0
2/14/2025 19:42	24101	EHAZ_T1	41	41	0	1.88	1.97	0.09	0	0	0	0	0	0	0	0
2/14/2025 19:42	14802	TREI_T2	0	0	0	0	0	0.62	0.58	0	0	0	0	0	0	0
2/14/2025 19:42	55002	NEWP_T1	3	4	1	0.73	0.65	-0.08	-0.2	-0.2	0	0	0	0	0	0
2/14/2025 19:42	52403	GRPA_T2	1	3	2	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
2/14/2025 19:42	65602	QVIL_T2	20	24	4	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
2/14/2025 19:42	13103	NHAM_T2	0	0	0	0	0	0	-1.58	-1.61	1	1	0	600	600	0
2/14/2025 19:42	13105	NHAM_T2	17	17	0	2.15	0.42	-1.73	0	0	0	0	0	0	0	0
2/14/2025 19:42	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/14/2025 19:42	54501	ENOL_T2	0	0	0	0	0	0	-0.5	-0.5	1	1	0	600	600	0
2/14/2025 19:42	10705	CATA_T2	0	0	0	0	0	0	-0.85	-0.81	1	1	0	900	900	0
2/14/2025 19:42	54505	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/14/2025 19:42	65601	QVIL_T2	68	75	7	0.24	0.26	0.02	-0.09	-0.05	0	0	0	0	0	0
2/14/2025 19:42	60101	COCA_T1	0	0	0	0	0	0	0.82	0.76	0	0	0	0	0	0
2/14/2025 19:42	17401	FOHI_T1	0	0	0	0	0	0	-1	-1.02	0	0	0	0	0	0
2/14/2025 19:42	24105	EHAZ_T1	16	16	0	2.73	2.28	-0.45	0	0	0	0	0	0	0	0
2/14/2025 19:42	45602	WOOL_T1	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
2/14/2025 19:42	55508	HERS_T2	2	2	0	1.35	1.5	0.15	0	0	1	1	0	1200	1200	0
2/14/2025 19:42	58102	NEKI_T1	1	1	0	0.5	0.7	0.2	0.22	0.26	0	0	0	0	0	0
2/14/2025 19:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:42	60502	NMAN_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
2/14/2025 19:42	64204	KINZ_T1	1	2	1	0.6	0.6	0	0	0	0	0	0	0	0	0
2/14/2025 19:42	50506	MECH_T1	0	0	0	0	0	0	-0.1	-0.05	0	0	0	0	0	0
2/14/2025 19:42	44301	BEAV_T2	1	0	-1	0.8	0	-0.8	-0.22	-0.11	1	1	0	600	600	0
2/14/2025 19:42	24104	EHAZ_T1	0	0	0	0	0	0	-0.86	-0.86	1	1	0	1200	1200	0
2/14/2025 19:42	16302	ALPA_T2	0	0	0	0	0	0	-0.53	-0.58	0	0	0	0	0	0
2/14/2025 19:42	52402	GRPA_T2	4	2	-2	0.43	0.95	0.52	0	0	0	0	0	0	0	0
2/14/2025 19:42	66901	SHIL_T2	0	0	0	0	0	0	-1.55	-1.55	1	1	0	1200	1200	0
2/14/2025 19:43	61304	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 19:43	61306	EARL_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
2/14/2025 19:43	58402	MORO_T1	0	6	6	0	0.2	0.2	0.06	0.06	2	2	0	1500	1500	0
2/14/2025 19:43	54502	ENOL_T2	0	0	0	0	0	0	-1.86	-1.96	1	1	0	600	600	0
2/14/2025 19:43	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:43	54505	ENOL_T2	0	1	1	0	0.2	0.2	-1.14	-1.13	1	1	0	600	600	0
2/14/2025 19:43	67603	WARW_T1	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
2/14/2025 19:43	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:43	47901	HRDG_T1	0	0	0	0	0	0	1.49	1.34	0	0	0	0	0	0
2/14/2025 19:43	53903	HALI_T2	2	2	0	0.75	1.05	0.3	0	0	0	0	0	0	0	0
2/14/2025 19:43	64101	REFR_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
2/14/2025 19:43	45402	WBLO_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
2/14/2025 19:43	57106	SPHI_T2	3	3	0	1.47	1.6	0.13	0	0	0	0	0	0	0	0
2/14/2025 19:43	61506	EPET_T2	0	0	0	0	0	0	-1.04	-1.03	1	1	0	900	900	0
2/14/2025 19:43	46801	HEPB_T2	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
2/14/2025 19:43	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
2/14/2025 19:43	45502	DERR_T2	0	0	0	0	0	0	-0.58	-0.57	0	0	0	0	0	0
2/14/2025 19:43	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	2	2	0	1800	1800	0
2/14/2025 19:43	54001	SDLE_T1	5	6	1	0.96	1.12	0.16	0	0	0	0	0	0	0	0
2/14/2025 19:43	57101	SPHI_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 19:43	53601	DALM_T2	1	1	0	0.3	0.3	0	-0.7	-0.69	1	1	0	600	600	0
2/14/2025 19:43	40902	JESH_T1	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
2/14/2025 19:43	44801	EDAN_T2	1	1	0	0.9	0.4	-0.5	-0.4	-0.43	0	0	0	0	0	0
2/14/2025 19:43	57002	WHHI_T2	0	0	0	0	0	0	-1.2	-1.2	1	1	0	1200	1200	0
2/14/2025 19:43	42501	ALTA_T2	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/14/2025 19:43	46203	DANV_T2	17	24	7	0.44	0.47	0.03	-0.73	-0.74	0	0	0	0	0	0
2/14/2025 19:43	65601	QVIL_T2	68	75	7	0.24	0.26	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:43	40101	HUNT_T2	4	5	1	1.53	0.1	-1.43	-1.42	-1.43	0	0	0	0	0	0
2/14/2025 19:43	41001	LAUR_T2	2	1	-1	1.75	0.7	-1.05	0	0	0	0	0	0	0	0
2/14/2025 19:43	65604	QVIL_T2	3	3	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/14/2025 19:43	40901	JESH_T1	1	1	0	1.6	1.1	-0.5	0	0	0	0	0	0	0	0
2/14/2025 19:43	65603	QVIL_T2	33	43	10	0.17	0.19	0.02	0.19	0.2	0	0	0	0	0	0
2/14/2025 19:43	53901	HALI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/14/2025 19:43	46803	HEPB_T2	1	1	0	0.2	0.2	0	0.51	0.57	0	0	0	0	0	0
2/14/2025 19:43	60201	ATGL_T2	4	5	1	0.35	0.42	0.07	0	0	0	0	0	0	0	0
2/14/2025 19:43	53902	HALI_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
2/14/2025 19:43	57104	SPHI_T2	3	3	0	3.3	1.45	-1.85	0	0	0	0	0	0	0	0
2/14/2025 19:43	42504	ALTA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 19:43	41002	LAUR_T2	4	9	5	0.53	0.26	-0.27	0	0	0	0	0	0	0	0
2/14/2025 19:43	65602	QVIL_T2	20	24	4	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
2/14/2025 19:43	54501	ENOL_T2	0	0	0	0	0	0	-0.5	-0.5	1	1	0	600	600	0
2/14/2025 19:43	54503	ENOL_T2	0	0	0	0	0	0	-0.35	-0.34	1	1	0	600	600	0
2/14/2025 19:43	46004	BERW_T2	3	3	0	0.97	0.55	-0.42	-0.68	-0.67	0	0	0	0	0	0
2/14/2025 19:44	60201	ATGL_T2	4	5	1	0.35	0.42	0.07	1.5	1.62	0	0	0	0	0	0
2/14/2025 19:44	65502	MOJO_T2	0	0	0	0	0	0	-1.09	-1.12	0	0	0	0	0	0
2/14/2025 19:44	47403	PENS_T1	1	0	-1	1.6	0	-1.6	0	0	0	0	0	0	0	0
2/14/2025 19:44	64402	LAND_T2	0	0	0	0	0	0	-0.52	-0.49	1	1	0	600	600	0
2/14/2025 19:44	61304	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 19:44	61302	EARL_T1	0	0	0	0	0	0	0.08	0.08	1	1	0	1200	1200	0
2/14/2025 19:44	10705	CATA_T2	0	0	0	0	0	0	-1.71	-1.62	2	2	0	1800	1800	0
2/14/2025 19:44	66701	STRA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/14/2025 19:44	16801	WAGN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:44	20601	GRWO_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/14/2025 19:44	44802	EDAN_T2	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
2/14/2025 19:44	20603	GRWO_T2	16	12	-4	0.37	0	-0.37	0	0	0	0	0	0	0	0
2/14/2025 19:44	54701	NEBL_T1	3	7	4	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
2/14/2025 19:44	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:44	54602	SUMM_T2	0	0	0	0	0	0	-2.41	-2.35	1	1	0	600	600	0
2/14/2025 19:44	64902	MILL_T2	0	0	0	0	0	0	-0.34	-0.36	0	0	0	0	0	0
2/14/2025 19:44	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/14/2025 19:44	63602	LETO_T1	0	0	0	0	0	0	-0.42	-0.46	0	0	0	0	0	0
2/14/2025 19:44	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:44	57404	SPAN_T2	0	0	0	0	0	0	-0.17	-0.17	1	1	0	1200	1200	0
2/14/2025 19:44	53101	WTWN_T1	1	1	0	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
2/14/2025 19:44	41903	REED_T1	0	0	0	0	0	0	-0.52	-0.53	1	1	0	1200	1200	0
2/14/2025 19:44	44801	EDAN_T2	1	1	0	0.9	0.4	-0.5	-0.4	-0.43	0	0	0	0	0	0
2/14/2025 19:44	54505	ENOL_T2	0	1	1	0	0.2	0.2	-1.14	-1.13	1	1	0	600	600	0
2/14/2025 19:44	59402	RFLD_T2	0	0	0	0	0	0	-0.9	-0.91	1	1	0	450	450	0
2/14/2025 19:44	67605	WARW_T1	0	0	0	0	0	0	-0.86	-0.81	0	0	0	0	0	0
2/14/2025 19:44	55002	NEWP_T1	3	4	1	0.73	0.65	-0.08	-0.2	-0.2	0	0	0	0	0	0
2/14/2025 19:44	57106	SPHI_T2	3	3	0	1.47	1.6	0.13	0	0	0	0	0	0	0	0
2/14/2025 19:44	57401	SPAN_T1	0	0	0	0	0	0	-0.67	-0.65	1	1	0	600	600	0
2/14/2025 19:44	57101	SPHI_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/14/2025 19:44	61803	EELI_T2	0	0	0	0	0	0	0.75	0.77	0	0	0	0	0	0
2/14/2025 19:44	54503	ENOL_T2	0	0	0	0	0	0	-0.35	-0.34	1	1	0	600	600	0
2/14/2025 19:44	10801	CHHI_T1	0	0	0	0	0	0	-2.06	-2.03	3	3	0	2100	2100	0
2/14/2025 19:44	44901	SCOT_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 19:44	44902	SCOT_T2	239	432	193	0.2	0.31	0.11	-0.93	-0.92	0	0	0	0	0	0
2/14/2025 19:44	54504	ENOL_T2	0	0	0	0	0	0	-1	-1	1	1	0	600	600	0
2/14/2025 19:44	21601	EYNO_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
2/14/2025 19:44	53102	WTWN_T1	0	0	0	0	0	0	-1.1	-1.13	0	0	0	0	0	0
2/14/2025 19:44	41902	REED_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:44	63802	HEMP_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
2/14/2025 19:44	63804	HEMP_T1	1	5	4	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
2/14/2025 19:44	61801	EELI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/14/2025 19:44	57104	SPHI_T2	3	3	0	3.3	1.45	-1.85	-2.27	-2.31	0	0	0	0	0	0
2/14/2025 19:44	47401	PENS_T1	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
2/14/2025 19:44	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/14/2025 19:44	61303	EARL_T1	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
2/14/2025 19:44	16103	BING_T2	0	0	0	0	0	0	-2.14	-2.14	2	2	0	1500	1500	0
2/14/2025 19:44	47203	FAXO_T2	0	0	0	0	0	0	-1.04	-1.06	0	0	0	0	0	0
2/14/2025 19:44	53501	EVIL_T2	2	1	-1	0.55	0.3	-0.25	-0.6	-0.66	0	0	0	0	0	0
2/14/2025 19:45	64904	MILL_T1	0	0	0	0	0	0	-0.27	-0.26	0	0	0	0	0	0
2/14/2025 19:45	52403	GRPA_T2	3	2	-1	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
2/14/2025 19:45	41902	REED_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 19:45	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:45	54601	SUMM_T2	0	0	0	0	0	0	-1.68	-1.65	2	2	0	2100	2100	0
2/14/2025 19:45	44902	SCOT_T2	360	450	90	0.22	0.31	0.09	-0.93	-0.92	0	0	0	0	0	0
2/14/2025 19:45	20603	GRWO_T2	0	18	18	0	0.43	0.43	0	0	0	0	0	0	0	0
2/14/2025 19:45	59102	WALK_T2	81	85	4	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
2/14/2025 19:45	67605	WARW_T1	0	0	0	0	0	0	-1.72	-1.62	0	0	0	0	0	0
2/14/2025 19:45	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:45	20601	GRWO_T2	0	1	1	0	0.2	0.2	-0.05	-0.05	0	0	0	0	0	0
2/14/2025 19:45	66903	SHIL_T2	0	0	0	0	0	0	-1.25	-1.26	0	0	0	0	0	0
2/14/2025 19:45	64801	MONE_T2	4	13	9	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
2/14/2025 19:45	47201	FAXO_T2	0	0	0	0	0	0	-2.17	-2.16	1	1	0	1200	1200	0
2/14/2025 19:45	44201	POIN_T1	0	16	16	0	0.11	0.11	-2.04	-2.05	2	2	0	2100	2100	0
2/14/2025 19:45	45501	DERR_T2	0	4	4	0	0	0	0.16	0.12	2	2	0	1800	1800	0
2/14/2025 19:45	57106	SPHI_T2	3	3	0	1.57	1.6	0.03	0	0	0	0	0	0	0	0
2/14/2025 19:45	46803	HEPB_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/14/2025 19:45	54001	SDLE_T1	6	6	0	1.02	1.12	0.1	0	0	0	0	0	0	0	0
2/14/2025 19:45	64802	MONE_T2	17	26	9	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
2/14/2025 19:45	43304	WATS_T2	1	2	1	0.7	0	-0.7	-0.1	-0.08	0	0	0	0	0	0
2/14/2025 19:45	44901	SCOT_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 19:45	44802	EDAN_T2	0	0	0	0	0	0	-1.62	-1.64	0	0	0	0	0	0
2/14/2025 19:45	54503	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:45	54505	ENOL_T2	1	1	0	0.2	0.2	0	-2.28	-2.27	2	2	0	1200	1200	0
2/14/2025 19:45	66701	STRA_T1	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
2/14/2025 19:45	55002	NEWP_T1	4	4	0	0.58	0.68	0.1	-0.2	-0.2	0	0	0	0	0	0
2/14/2025 19:45	59101	WALK_T2	1	1	0	0.6	0.5	-0.1	-0.47	-0.42	0	0	0	0	0	0
2/14/2025 19:45	57104	SPHI_T2	3	3	0	4.47	1.45	-3.02	-1.14	-1.16	0	0	0	0	0	0
2/14/2025 19:45	59402	RFLD_T2	0	0	0	0	0	0	-0.9	-0.91	1	1	0	450	450	0
2/14/2025 19:45	50501	MECH_T1	1	4	3	0.1	0.33	0.23	-0.23	-0.43	0	0	0	0	0	0
2/14/2025 19:45	60201	ATGL_T2	4	10	6	0.45	0.31	-0.14	1.5	1.62	0	0	0	0	0	0
2/14/2025 19:45	52402	GRPA_T2	1	2	1	1.6	0.75	-0.85	0	0	0	0	0	0	0	0
2/14/2025 19:45	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:45	41903	REED_T1	0	0	0	0	0	0	-0.52	-0.53	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/14/2025 19:45	62106	ELAN_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
2/14/2025 19:45	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/14/2025 19:45	46801	HEPB_T2	2	2	0	0.15	0.4	0.25	0.62	0.63	0	0	0	0	0	0
2/14/2025 19:45	44801	EDAN_T2	1	1	0	0.7	0.2	-0.5	-0.4	-0.43	0	0	0	0	0	0
2/14/2025 19:45	50502	MECH_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
2/14/2025 19:46	41902	REED_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 19:46	54206	PENN_T2	0	0	0	0	0	0	-0.09	-0.01	0	0	0	0	0	0
2/14/2025 19:46	52101	MEIS_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
2/14/2025 19:46	45802	HEGI_T2	10	21	11	0.51	0.42	-0.09	1.85	1.92	0	0	0	0	0	0
2/14/2025 19:46	41903	REED_T1	0	0	0	0	0	0	-1.04	-1.06	2	2	0	2400	2400	0
2/14/2025 19:46	57205	ROSS_T1	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
2/14/2025 19:46	58201	NEWV_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/14/2025 19:46	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:46	54603	SUMM_T2	0	0	0	0	0	0	-0.38	-0.39	1	1	0	900	900	0
2/14/2025 19:46	52102	MEIS_T1	1	0	-1	0.4	0	-0.4	0	0	2	2	0	900	900	0
2/14/2025 19:46	11202	ELHE_T2	0	0	0	0	0	0	0.47	0.43	1	1	0	1200	1200	0
2/14/2025 19:46	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:46	52401	GRPA_T2	0	2	2	0	0	0	-0.62	-0.63	0	0	0	0	0	0
2/14/2025 19:46	59102	WALK_T2	81	85	4	0.44	0.43	-0.01	0.29	0.3	0	0	0	0	0	0
2/14/2025 19:46	65604	QVIL_T2	3	3	0	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
2/14/2025 19:46	54503	ENOL_T2	0	0	0	0	0	0	-1.04	-1.02	3	3	0	1800	1800	0
2/14/2025 19:46	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/14/2025 19:46	55002	NEWP_T1	4	4	0	0.58	0.68	0.1	-0.2	-0.2	0	0	0	0	0	0
2/14/2025 19:46	65603	QVIL_T2	33	65	32	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
2/14/2025 19:46	54601	SUMM_T2	0	0	0	0	0	0	-1.68	-1.65	2	2	0	2100	2100	0
2/14/2025 19:46	52403	GRPA_T2	3	2	-1	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
2/14/2025 19:46	44201	POIN_T1	0	16	16	0	0.11	0.11	-2.04	-2.05	2	2	0	2100	2100	0
2/14/2025 19:46	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:46	59101	WALK_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/14/2025 19:46	64101	REFR_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
2/14/2025 19:46	52402	GRPA_T2	1	2	1	1.6	0.75	-0.85	0	0	0	0	0	0	0	0
2/14/2025 19:46	54001	SDLE_T1	6	6	0	1.02	1.12	0.1	0	0	0	0	0	0	0	0
2/14/2025 19:46	40901	JESH_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
2/14/2025 19:46	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:46	54505	ENOL_T2	1	1	0	0.2	0.2	0	-1.14	-1.13	1	1	0	600	600	0
2/14/2025 19:46	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:46	65602	QVIL_T2	23	26	3	0.27	0.29	0.02	0.16	0.18	0	0	0	0	0	0
2/14/2025 19:46	65601	QVIL_T2	63	78	15	0.24	0.26	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:47	61701	ELIZ_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
2/14/2025 19:47	60801	BUCK_T1	37	44	7	0.35	0.37	0.02	-0.21	-0.17	0	0	0	0	0	0
2/14/2025 19:47	61703	ELIZ_T1	0	0	0	0	0	0	-0.86	-0.82	1	1	0	900	900	0
2/14/2025 19:47	55101	WERT_T1	0	0	0	0	0	0	-1.29	-1.3	2	2	0	1500	1500	0
2/14/2025 19:47	65601	QVIL_T2	63	78	15	0.24	0.26	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:47	47403	PENS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:47	58401	MORO_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	600	600	0
2/14/2025 19:47	65602	QVIL_T2	23	26	3	0.27	0.29	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:47	54001	SDLE_T1	6	6	0	1.02	1.12	0.1	0	0	0	0	0	0	0	0
2/14/2025 19:47	60201	ATGL_T2	4	10	6	0.45	0.31	-0.14	0	0	0	0	0	0	0	0
2/14/2025 19:47	45802	HEGI_T2	10	21	11	0.51	0.42	-0.09	0	0	0	0	0	0	0	0
2/14/2025 19:47	41901	REED_T1	0	0	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
2/14/2025 19:47	66703	STRA_T1	0	0	0	0	0	0	-1.75	-1.73	0	0	0	0	0	0
2/14/2025 19:47	59302	MCAL_T1	1	2	1	0.9	0.7	-0.2	0.04	-0.04	0	0	0	0	0	0
2/14/2025 19:47	45402	WBLO_T2	0	1	1	0	0	0	-0.53	-0.55	0	0	0	0	0	0
2/14/2025 19:47	57201	ROSS_T1	0	0	0	0	0	0	-0.67	-0.58	0	0	0	0	0	0
2/14/2025 19:47	60803	BUCK_T1	19	20	1	0.47	0.5	0.03	-1	-0.96	2	2	0	1200	1200	0
2/14/2025 19:47	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:47	63601	LETO_T1	0	0	0	0	0	0	0.81	0.77	1	1	0	900	900	0
2/14/2025 19:47	54505	ENOL_T2	1	1	0	0.2	0.2	0	-1.14	-1.13	1	1	0	600	600	0
2/14/2025 19:47	44901	SCOT_T2	0	2	2	0	0.1	0.1	-0.03	-0.06	0	0	0	0	0	0
2/14/2025 19:47	54502	ENOL_T2	0	0	0	0	0	0	-1.86	-1.96	1	1	0	600	600	0
2/14/2025 19:47	63501	HEID_TBK1-2	37	47	10	0.45	0.53	0.08	-1.04	-0.97	2	2	0	1800	1800	0
2/14/2025 19:47	65604	QVIL_T2	3	3	0	0.47	0.43	-0.04	0.47	0.5	0	0	0	0	0	0
2/14/2025 19:47	57106	SPHI_T2	3	3	0	1.57	1.6	0.03	0	0	0	0	0	0	0	0
2/14/2025 19:47	44902	SCOT_T2	360	450	90	0.22	0.31	0.09	-0.93	-0.92	0	0	0	0	0	0
2/14/2025 19:47	57104	SPHI_T2	3	3	0	4.47	1.45	-3.02	-1.14	-1.16	0	0	0	0	0	0
2/14/2025 19:47	41902	REED_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 19:47	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:47	67402	WAKE_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
2/14/2025 19:47	53501	EVIL_T2	0	1	1	0	0.3	0.3	-0.6	-0.66	0	0	0	0	0	0
2/14/2025 19:47	58402	MORO_T1	6	3	-3	1.85	0.17	-1.68	0	0	0	0	0	0	0	0
2/14/2025 19:47	40802	EXCH_T2	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
2/14/2025 19:47	65603	QVIL_T2	33	65	32	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
2/14/2025 19:47	59301	MCAL_T1	5	3	-2	0.48	0.83	0.35	0	0	0	0	0	0	0	0
2/14/2025 19:47	54504	ENOL_T2	0	0	0	0	0	0	-1	-1	1	1	0	600	600	0
2/14/2025 19:47	46203	DANV_T2	23	25	2	0.46	0.46	0	-0.73	-0.74	0	0	0	0	0	0
2/14/2025 19:47	40501	CRES_T2	3	9	6	0.23	0.29	0.06	0	0	0	0	0	0	0	0
2/14/2025 19:48	60801	BUCK_T1	37	44	7	0.35	0.37	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:48	67203	TEHI_T1	0	1	1	0	0	0	1.81	1.78	2	2	0	1500	1500	0
2/14/2025 19:48	12006	HATF_T1	2	2	0	1.4	1.4	0	0.94	0.94	0	0	0	0	0	0
2/14/2025 19:48	14403	SSLA_T1	1	3	2	0.4	0.2	-0.2	0.87	0.85	0	0	0	0	0	0
2/14/2025 19:48	53101	WTWN_T1	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
2/14/2025 19:48	14402	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:48	12001	HATF_T1	2	2	0	3.75	2.75	-1	0	0	0	0	0	0	0	0
2/14/2025 19:48	44802	EDAN_T2	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
2/14/2025 19:48	57106	SPHI_T2	3	3	0	1.57	1.6	0.03	0	0	0	0	0	0	0	0
2/14/2025 19:48	64101	REFR_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
2/14/2025 19:48	65604	QVIL_T2	3	3	0	0.47	0.43	-0.04	0.47	0.5	0	0	0	0	0	0
2/14/2025 19:48	63602	LETO_T1	0	0	0	0	0	0	-0.42	-0.46	0	0	0	0	0	0
2/14/2025 19:48	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:48	40801	EXCH_T2	0	0	0	0	0	0	-0.37	-0.42	1	1	0	1200	1200	0
2/14/2025 19:48	65602	QVIL_T2	23	26	3	0.27	0.29	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:48	53102	WTWN_T1	0	0	0	0	0	0	-1.1	-1.13	0	0	0	0	0	0
2/14/2025 19:48	54001	SDLE_T1	6	6	0	1.02	1.12	0.1	0	0	0	0	0	0	0	0
2/14/2025 19:48	65603	QVIL_T2	33	65	32	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
2/14/2025 19:48	66703	STRA_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
2/14/2025 19:48	66203	SISP_T2	0	0	0	0	0	0	-1.47	-1.46	2	2	0	1800	1800	0
2/14/2025 19:48	65601	QVIL_T2	63	78	15	0.24	0.26	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:48	40505	CRES_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
2/14/2025 19:48	64802	MONE_T2	17	26	9	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
2/14/2025 19:48	44801	EDAN_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
2/14/2025 19:48	60803	BUCK_T1	19	20	1	0.47	0.5	0.03	0	0	0	0	0	0	0	0
2/14/2025 19:48	54505	ENOL_T2	1	1	0	0.2	0.2	0	-1.14	-1.13	1	1	0	600	600	0
2/14/2025 19:48	64801	MONE_T2	4	13	9	0.2	0.17	-0.03	0.08	0.11	0	0	0	0	0	0
2/14/2025 19:48	58402	MORO_T1	6	3	-3	1.85	0.17	-1.68	0.06	0.06	2	2	0	1500	1500	0
2/14/2025 19:48	44301	BEAV_T2	0	1	1	0	0	0	-0.22	-0.11	1	1	0	600	600	0
2/14/2025 19:48	57403	SPAN_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
2/14/2025 19:48	57104	SPHI_T2	3	3	0	4.47	1.45	-3.02	-1.14	-1.16	0	0	0	0	0	0
2/14/2025 19:49	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:49	54505	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/14/2025 19:49	57401	SPAN_T1	0	0	0	0	0	0	-0.67	-0.65	1	1	0	600	600	0
2/14/2025 19:49	57104	SPHI_T2	3	3	0	4.47	1.45	-3.02	-2.27	-2.31	0	0	0	0	0	0
2/14/2025 19:49	63803	HEMP_T1	0	0	0	0	0	0	0.63	0.59	0	0	0	0	0	0
2/14/2025 19:49	58402	MORO_T1	6	3	-3	1.85	0.17	-1.68	0	0	0	0	0	0	0	0
2/14/2025 19:49	57106	SPHI_T2	3	3	0	1.57	1.6	0.03	0	0	0	0	0	0	0	0
2/14/2025 19:49	54501	ENOL_T2	0	0	0	0	0	0	-0.5	-0.5	1	1	0	600	600	0
2/14/2025 19:49	63804	HEMP_T1	5	1	-4	1.52	6.2	4.68	0	0	0	0	0	0	0	0
2/14/2025 19:49	64802	MONE_T2	17	26	9	0.27	0.25	-0.02	0.01	-0.01	0	0	0	0	0	0
2/14/2025 19:49	64801	MONE_T2	4	13	9	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
2/14/2025 19:49	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:49	58401	MORO_T1	0	0	0	0	0	0	-1.95	-1.99	2	2	0	1200	1200	0
2/14/2025 19:49	57201	ROSS_T1	0	0	0	0	0	0	-0.67	-0.58	0	0	0	0	0	0
2/14/2025 19:49	61801	EELI_T2	1	2	1	0.1	0.3	0.2	-0.96	-0.99	1	1	0	600	600	0
2/14/2025 19:50	57106	SPHI_T2	3	3	0	1.57	1.6	0.03	0	0	0	0	0	0	0	0
2/14/2025 19:50	45801	HEGI_T1	0	0	0	0	0	0	-0.37	-0.41	1	1	0	900	900	0
2/14/2025 19:50	44201	POIN_T1	0	16	16	0	0.11	0.11	-2.04	-2.05	2	2	0	2100	2100	0
2/14/2025 19:50	18001	ZION_T1	2	2	0	8.65	8.95	0.3	0	0	0	0	0	0	0	0
2/14/2025 19:50	54001	SDLE_T1	6	6	0	1.02	1.12	0.1	0	0	0	0	0	0	0	0
2/14/2025 19:50	65603	QVIL_T2	33	65	32	0.18	0.17	-0.01	0.19	0.2	0	0	0	0	0	0
2/14/2025 19:50	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:50	65601	QVIL_T2	63	78	15	0.24	0.26	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:50	57104	SPHI_T2	3	3	0	4.47	1.45	-3.02	-1.14	-1.16	0	0	0	0	0	0
2/14/2025 19:50	61001	DONV_T1	0	0	0	0	0	0	-0.28	-0.26	0	0	0	0	0	0
2/14/2025 19:50	54603	SUMM_T2	0	0	0	0	0	0	-0.38	-0.39	1	1	0	900	900	0
2/14/2025 19:50	58402	MORO_T1	6	3	-3	1.85	0.17	-1.68	0.06	0.06	2	2	0	1500	1500	0
2/14/2025 19:50	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:50	65602	QVIL_T2	23	26	3	0.27	0.29	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:50	54505	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/14/2025 19:50	65604	QVIL_T2	3	3	0	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
2/14/2025 19:50	54503	ENOL_T2	0	0	0	0	0	0	-0.35	-0.34	1	1	0	600	600	0
2/14/2025 19:50	47901	HRDG_T1	0	0	0	0	0	0	1.49	1.34	0	0	0	0	0	0
2/14/2025 19:50	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:50	40501	CRES_T2	3	9	6	0.23	0.29	0.06	0	0	0	0	0	0	0	0
2/14/2025 19:50	53101	WTWN_T1	1	1	0	1	0.2	-0.8	0	0	0	0	0	0	0	0
2/14/2025 19:50	45501	DERR_T2	0	4	4	0	0	0	0.16	0.12	2	2	0	1800	1800	0
2/14/2025 19:50	67605	WARW_T1	0	0	0	0	0	0	-0.86	-0.81	0	0	0	0	0	0
2/14/2025 19:50	41903	REED_T1	0	0	0	0	0	0	-0.52	-0.53	1	1	0	1200	1200	0
2/14/2025 19:50	60201	ATGL_T2	4	10	6	0.45	0.31	-0.14	0.75	0.81	0	0	0	0	0	0
2/14/2025 19:50	55508	HERS_T2	2	2	0	1.5	1.5	0	0	0	1	1	0	1200	1200	0
2/14/2025 19:50	57401	SPAN_T1	0	0	0	0	0	0	-0.67	-0.65	1	1	0	600	600	0
2/14/2025 19:50	41902	REED_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/14/2025 19:50	54501	ENOL_T2	0	0	0	0	0	0	-0.5	-0.5	1	1	0	600	600	0
2/14/2025 19:51	65603	QVIL_T2	33	65	32	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
2/14/2025 19:51	60104	COCA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/14/2025 19:51	61304	EARL_T1	0	1	1	0	0.1	0.1	-0.9	-0.91	1	1	0	600	600	0
2/14/2025 19:51	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/14/2025 19:51	61001	DONV_T1	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
2/14/2025 19:51	40101	HUNT_T2	5	5	0	0.8	0.1	-0.7	-1.43	-1.45	0	0	0	0	0	0
2/14/2025 19:51	58402	MORO_T1	6	3	-3	1.85	0.17	-1.68	0	0	0	0	0	0	0	0
2/14/2025 19:51	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:51	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/14/2025 19:51	57103	SPHI_T2	0	0	0	0	0	0	-0.8	-0.81	1	1	0	600	600	0
2/14/2025 19:51	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:51	61801	EELI_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/14/2025 19:51	52402	GRPA_T2	1	2	1	1.6	0.75	-0.85	0	0	0	0	0	0	0	0
2/14/2025 19:51	65602	QVIL_T2	23	26	3	0.27	0.29	0.02	0.18	0.16	0	0	0	0	0	0
2/14/2025 19:51	57104	SPHI_T2	3	3	0	4.47	1.45	-3.02	-1.14	-1.16	0	0	0	0	0	0
2/14/2025 19:51	65604	QVIL_T2	3	3	0	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
2/14/2025 19:51	57106	SPHI_T2	3	3	0	1.57	1.6	0.03	0	0	0	0	0	0	0	0
2/14/2025 19:51	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:51	64204	KINZ_T1	1	2	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
2/14/2025 19:51	44301	BEAV_T2	0	1	1	0	0	0	-0.11	-0.23	1	1	0	600	600	0
2/14/2025 19:51	60103	COCA_T2	0	0	0	0	0	0	-0.79	-0.89	0	0	0	0	0	0
2/14/2025 19:51	66901	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:51	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:51	66903	SHIL_T2	0	0	0	0	0	0	-1.26	-1.24	0	0	0	0	0	0
2/14/2025 19:51	64201	KINZ_T1	7	7	0	0.33	0.46	0.13	0	0	0	0	0	0	0	0
2/14/2025 19:51	52403	GRPA_T2	3	2	-1	0.37	0.25	-0.12	-0.41	-0.52	0	0	0	0	0	0
2/14/2025 19:51	65601	QVIL_T2	63	78	15	0.24	0.26	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:51	54001	SDLE_T1	6	6	0	1.02	1.12	0.1	0	0	0	0	0	0	0	0
2/14/2025 19:51	64202	KINZ_T1	0	6	6	0	0.12	0.12	0.41	0.42	0	0	0	0	0	0
2/14/2025 19:51	54502	ENOL_T2	0	0	0	0	0	0	-1.86	-1.96	1	1	0	600	600	0
2/14/2025 19:51	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:51	63401	HONY_T1	0	0	0	0	0	0	-0.24	-0.21	1	1	0	600	600	0
2/14/2025 19:51	61802	EELI_T2	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
2/14/2025 19:51	54505	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/14/2025 19:52	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:52	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/14/2025 19:52	67605	WARW_T1	0	0	0	0	0	0	-0.81	-0.87	0	0	0	0	0	0
2/14/2025 19:52	67401	WAKE_T2	0	0	0	0	0	0	-1.18	-1.21	0	0	0	0	0	0
2/14/2025 19:52	52403	GRPA_T2	3	2	-1	0.37	0.25	-0.12	-1.04	-1.03	0	0	0	0	0	0
2/14/2025 19:52	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
2/14/2025 19:52	61304	EARL_T1	0	1	1	0	0.1	0.1	-0.9	-0.91	1	1	0	600	600	0
2/14/2025 19:52	63602	LETO_T1	0	0	0	0	0	0	-0.46	-0.37	0	0	0	0	0	0
2/14/2025 19:52	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:52	60801	BUCK_T1	37	44	7	0.35	0.37	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:52	54505	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/14/2025 19:52	60803	BUCK_T1	19	20	1	0.47	0.5	0.03	-0.48	-0.48	1	1	0	600	600	0
2/14/2025 19:52	52402	GRPA_T2	1	2	1	1.6	0.75	-0.85	0	0	0	0	0	0	0	0
2/14/2025 19:52	54503	ENOL_T2	0	0	0	0	0	0	-0.34	-0.35	1	1	0	600	600	0
2/14/2025 19:53	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:53	60801	BUCK_T1	37	44	7	0.35	0.37	0.02	-0.17	-0.16	0	0	0	0	0	0
2/14/2025 19:53	52402	GRPA_T2	1	2	1	1.6	0.75	-0.85	0	0	0	0	0	0	0	0
2/14/2025 19:53	65603	QVIL_T2	33	65	32	0.18	0.17	-0.01	0.2	0.2	0	0	0	0	0	0
2/14/2025 19:53	63804	HEMP_T1	5	1	-4	1.52	6.2	4.68	0.85	0.84	0	0	0	0	0	0
2/14/2025 19:53	65604	QVIL_T2	3	3	0	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
2/14/2025 19:53	55508	HERS_T2	2	2	0	1.5	1.5	0	0	0	1	1	0	1200	1200	0
2/14/2025 19:53	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/14/2025 19:53	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:53	63501	HEID_TBK1-2	37	47	10	0.45	0.53	0.08	-0.48	-0.47	1	1	0	900	900	0
2/14/2025 19:53	67106	SPRI_T2	0	0	0	0	0	0	-1.25	-1.25	1	1	0	900	900	0
2/14/2025 19:53	57104	SPHI_T2	3	3	0	4.47	1.45	-3.02	-1.16	-1.17	0	0	0	0	0	0
2/14/2025 19:53	60803	BUCK_T1	19	20	1	0.47	0.5	0.03	0	0	0	0	0	0	0	0
2/14/2025 19:53	52403	GRPA_T2	3	2	-1	0.37	0.25	-0.12	-0.52	-0.51	0	0	0	0	0	0
2/14/2025 19:53	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:53	59402	RFLD_T2	0	0	0	0	0	0	-0.91	-0.91	1	1	0	450	450	0
2/14/2025 19:53	54001	SDLE_T1	6	6	0	1.02	1.12	0.1	0	0	0	0	0	0	0	0
2/14/2025 19:53	57403	SPAN_T1	0	0	0	0	0	0	0.16	0.21	0	0	0	0	0	0
2/14/2025 19:53	58401	MORO_T1	0	0	0	0	0	0	-1.99	-2.1	2	2	0	1200	1200	0
2/14/2025 19:53	65601	QVIL_T2	63	78	15	0.24	0.26	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:53	58402	MORO_T1	6	3	-3	1.85	0.17	-1.68	0	0	0	0	0	0	0	0
2/14/2025 19:53	57106	SPHI_T2	3	3	0	1.57	1.6	0.03	0	0	0	0	0	0	0	0
2/14/2025 19:53	65602	QVIL_T2	23	26	3	0.27	0.29	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:54	54505	ENOL_T2	1	1	0	0.2	0.2	0	-1.13	-1.09	1	1	0	600	600	0
2/14/2025 19:54	61304	EARL_T1	0	1	1	0	0.1	0.1	-0.9	-0.91	1	1	0	600	600	0
2/14/2025 19:54	65602	QVIL_T2	23	26	3	0.27	0.29	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:54	55001	NEWP_T1	0	0	0	0	0	0	-0.95	-0.95	1	1	0	600	600	0
2/14/2025 19:54	58402	MORO_T1	6	3	-3	1.85	0.17	-1.68	0	0	0	0	0	0	0	0
2/14/2025 19:54	66703	STRA_T1	0	0	0	0	0	0	-0.86	-0.89	0	0	0	0	0	0
2/14/2025 19:54	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:54	58401	MORO_T1	0	0	0	0	0	0	-1	-1.05	1	1	0	600	600	0
2/14/2025 19:54	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:54	57004	WHHI_T2	0	0	0	0	0	0	-1.34	-1.36	0	0	0	0	0	0
2/14/2025 19:54	65603	QVIL_T2	33	65	32	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
2/14/2025 19:54	65601	QVIL_T2	63	78	15	0.24	0.26	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:54	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:54	64801	MONE_T2	4	13	9	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
2/14/2025 19:54	67201	TEHI_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
2/14/2025 19:54	64802	MONE_T2	17	26	9	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
2/14/2025 19:54	67402	WAKE_T2	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
2/14/2025 19:54	65502	MOJO_T2	0	0	0	0	0	0	-1.12	-1.11	0	0	0	0	0	0
2/14/2025 19:54	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/14/2025 19:54	67203	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:54	57106	SPHI_T2	3	3	0	1.57	1.6	0.03	0	0	0	0	0	0	0	0
2/14/2025 19:54	53502	EVIL_T2	0	0	0	0	0	0	0.04	0.07	1	1	0	600	600	0
2/14/2025 19:54	57103	SPHI_T2	0	0	0	0	0	0	-0.81	-0.81	1	1	0	600	600	0
2/14/2025 19:54	57104	SPHI_T2	3	3	0	4.47	1.45	-3.02	0	0	0	0	0	0	0	0
2/14/2025 19:54	65604	QVIL_T2	3	3	0	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
2/14/2025 19:54	53501	EVIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/14/2025 19:54	55002	NEWP_T1	4	4	0	0.58	0.68	0.1	0	0	0	0	0	0	0	0
2/14/2025 19:55	64202	KINZ_T1	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
2/14/2025 19:55	61701	ELIZ_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
2/14/2025 19:55	67605	WARW_T1	0	0	0	0	0	0	-0.81	-0.87	0	0	0	0	0	0
2/14/2025 19:55	64201	KINZ_T1	7	7	0	0.33	0.46	0.13	0	0	0	0	0	0	0	0
2/14/2025 19:55	64204	KINZ_T1	1	2	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
2/14/2025 19:55	65603	QVIL_T2	33	65	32	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
2/14/2025 19:55	52402	GRPA_T2	1	2	1	1.6	0.75	-0.85	0	0	0	0	0	0	0	0
2/14/2025 19:55	53902	HALI_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
2/14/2025 19:55	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:55	50502	MECH_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
2/14/2025 19:55	65601	QVIL_T2	63	78	15	0.24	0.26	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:55	53903	HALI_T2	2	2	0	0.55	1.05	0.5	-0.05	-0.06	0	0	0	0	0	0
2/14/2025 19:55	50501	MECH_T1	1	4	3	0.1	0.33	0.23	0	0	0	0	0	0	0	0
2/14/2025 19:55	65602	QVIL_T2	23	26	3	0.27	0.29	0.02	0	0	0	0	0	0	0	0
2/14/2025 19:55	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:55	58402	MORO_T1	6	3	-3	1.85	0.17	-1.68	0	0	0	0	0	0	0	0
2/14/2025 19:55	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/14/2025 19:55	65604	QVIL_T2	3	3	0	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
2/14/2025 19:55	52403	GRPA_T2	3	2	-1	0.37	0.25	-0.12	-0.52	-0.51	0	0	0	0	0	0
2/14/2025 19:55	53901	HALI_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/14/2025 19:55	64203	KINZ_T1	0	0	0	0	0	0	-0.41	-0.4	1	1	0	600	600	0
2/14/2025 19:56	54505	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/14/2025 19:56	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/14/2025 19:56	52403	GRPA_T2	3	2	-1	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
2/14/2025 19:56	59101	WALK_T2	1	1	0	0.6	0.5	-0.1	-0.42	-0.4	0	0	0	0	0	0
2/14/2025 19:56	66903	SHIL_T2	0	0	0	0	0	0	-1.26	-1.24	0	0	0	0	0	0
2/14/2025 19:56	58402	MORO_T1	6	3	-3	1.85	0.17	-1.68	0.06	0.03	2	2	0	1500	1500	0
2/14/2025 19:56	52402	GRPA_T2	1	2	1	1.6	0.75	-0.85	0	0	0	0	0	0	0	0
2/14/2025 19:56	59102	WALK_T2	81	85	4	0.44	0.43	-0.01	0	0	0	0	0	0	0	0
2/14/2025 19:56	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 19:56	54504	ENOL_T2	0	0	0	0	0	0	-1	-0.99	1	1	0	600	600	0
2/14/2025 19:58	54701	NEBL_T1	6	7	1	0.55	0.51	-0.04	0	0	0	0	0	0	0	0
2/14/2025 19:58	50502	MECH_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
2/14/2025 19:58	50501	MECH_T1	1	4	3	0.1	0.33	0.23	0	0	0	0	0	0	0	0
2/14/2025 19:58	50506	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 20:03	41902	REED_T1	3	1	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/14/2025 20:03	41903	REED_T1	0	0	0	0	0	0	-0.53	-0.53	1	1	0	1200	1200	0
2/14/2025 20:17	53902	HALI_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
2/14/2025 20:17	53903	HALI_T2	2	2	0	0.95	0.8	-0.15	0	0	0	0	0	0	0	0
2/14/2025 20:17	53901	HALI_T2	0	0	0	0	0	0	-1.31	-1.32	0	0	0	0	0	0
2/14/2025 20:20	53903	HALI_T2	2	2	0	0.95	0.8	-0.15	-0.06	-0.06	0	0	0	0	0	0
2/14/2025 20:20	53902	HALI_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
2/14/2025 20:21	53901	HALI_T2	0	0	0	0	0	0	-1.31	-1.32	0	0	0	0	0	0
2/14/2025 20:21	53903	HALI_T2	2	2	0	0.95	0.8	-0.15	0	0	0	0	0	0	0	0
2/14/2025 20:21	53902	HALI_T2	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
2/14/2025 20:21	53501	EVIL_T2	1	1	0	0.2	0.6	0.4	-0.62	-0.57	0	0	0	0	0	0
2/14/2025 20:23	53501	EVIL_T2	1	1	0	0.2	0.6	0.4	-0.57	-0.61	0	0	0	0	0	0
2/14/2025 20:25	53501	EVIL_T2	1	1	0	0.2	0.6	0.4	-0.57	-0.61	0	0	0	0	0	0
2/14/2025 20:25	54602	SUMM_T2	0	0	0	0	0	0	-2.34	-2.4	1	1	0	600	600	0
2/14/2025 20:42	16102	BING_T2	0	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0
2/14/2025 20:42	16101	BING_T2	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
2/14/2025 21:13	54201	PENN_T1	7	6	-1	0.69	0.93	0.24	0	0	0	0	0	0	0	0
2/14/2025 21:13	54203	PENN_T1	18	18	0	0.79	0.91	0.12	0.64	0.64	0	0	0	0	0	0
2/14/2025 21:20	59102	WALK_T2	82	119	37	0.49	0.46	-0.03	0	0	0	0	0	0	0	0
2/14/2025 21:20	59101	WALK_T2	6	14	8	0.22	0.25	0.03	-0.44	-0.44	0	0	0	0	0	0
2/14/2025 22:02	41902	REED_T1	4	2	-2	0.55	0	-0.55	1.09	1.06	0	0	0	0	0	0
2/14/2025 22:15	41902	REED_T1	2	8	6	0.35	0	-0.35	1.06	0.96	0	0	0	0	0	0
2/14/2025 23:07	60801	BUCK_T1	46	30	-16	0.42	0.29	-0.13	0	0	0	0	0	0	0	0
2/14/2025 23:07	60803	BUCK_T1	23	16	-7	0.58	0.49	-0.09	-0.51	-0.53	1	1	0	600	600	0
2/14/2025 23:13	41902	REED_T1	3	0	-3	0.63	0	-0.63	0.9	0.85	0	0	0	0	0	0
2/14/2025 23:14	41902	REED_T1	3	0	-3	0.63	0	-0.63	0.9	0.85	0	0	0	0	0	0
2/14/2025 23:15	41903	REED_T1	0	0	0	0	0	0	-0.56	-0.54	1	1	0	1200	1200	0
2/14/2025 23:15	41902	REED_T1	0	0	0	0	0	0	0.9	0.85	0	0	0	0	0	0
2/14/2025 23:16	41902	REED_T1	0	0	0	0	0	0	0.9	0.85	0	0	0	0	0	0
2/14/2025 23:18	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2025 23:43	57403	SPAN_T1	10	9	-1	0.23	0.26	0.03	0	0	0	0	0	0	0	0
2/14/2025 23:43	57401	SPAN_T1	2	2	0	0.3	0.6	0.3	-0.83	-0.8	1	1	0	600	600	0
2/15/2025 0:04	20401	ASHF_T2	1	1	0	0.5	0.4	-0.1	-0.29	-0.27	1	1	0	600	600	0
2/15/2025 0:25	44203	POIN_T2	0	0	0	0	0	0	-0.82	-1.03	2	2	0	2100	2100	0
2/15/2025 0:26	61304	EARL_T1	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
2/15/2025 0:28	43401	BENT_T1	1	3	2	1.1	0.55	-0.55	0	0	0	0	0	0	0	0
2/15/2025 0:28	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
2/15/2025 0:33	53903	HALI_T2	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
2/15/2025 0:33	53901	HALI_T2	1	1	0	0.3	0.5	0.2	-1.37	-1.39	0	0	0	0	0	0
2/15/2025 0:33	53902	HALI_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
2/15/2025 1:11	54001	SDLE_T1	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
2/15/2025 8:12	16103	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/15/2025 8:12	16101	BING_T2	0	0	0	0	0	0	0.52	0.58	0	0	0	0	0	0
2/15/2025 8:12	16102	BING_T2	1	1	0	1	4.4	3.4	0	0	0	0	0	0	0	0
2/15/2025 8:21	66701	STRA_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/15/2025 8:21	66703	STRA_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
2/15/2025 8:23	66701	STRA_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/15/2025 8:23	66703	STRA_T1	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
2/15/2025 8:25	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/15/2025 8:25	66701	STRA_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/15/2025 8:41	60201	ATGL_T2	4	4	0	0.18	0.23	0.05	-0.04	-0.01	0	0	0	0	0	0
2/15/2025 8:43	29402	BELT_T1	86	105	19	0.77	0.84	0.07	0	0	0	0	0	0	0	0
2/15/2025 8:44	12001	HATF_T1	3	2	-1	2.8	3.7	0.9	0	0	0	0	0	0	0	0
2/15/2025 8:44	12006	HATF_T1	2	2	0	1.8	1.3	-0.5	0.66	0.64	0	0	0	0	0	0
2/15/2025 8:48	11104	EGYP_T1	4	4	0	0.73	1.1	0.37	0	0	0	0	0	0	0	0
2/15/2025 8:49	25503	MADI_T1	1	9	8	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
2/15/2025 8:49	25501	MADI_T1	182	183	1	0.68	0.51	-0.17	0	0	1	1	0	600	600	0
2/15/2025 8:52	24204	PROV_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
2/15/2025 8:52	24201	PROV_T3	5	5	0	3.92	3.82	-0.1	-1.4	-1.39	1	1	0	1200	1200	0
2/15/2025 8:53	65202	PRIN_T1	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
2/15/2025 8:53	65205	PRIN_T1	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
2/15/2025 9:00	28102	TWLA_T2	0	6	6	0	0	0	0.29	0.3	0	0	0	0	0	0
2/15/2025 9:00	65202	PRIN_T1	1	2	1	0.6	0.65	0.05	0	0	0	0	0	0	0	0
2/15/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
2/15/2025 9:00	65205	PRIN_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
2/15/2025 9:02	20801	LOPO_T1	27	38	11	0.62	0.59	-0.03	0	0	0	0	0	0	0	0
2/15/2025 9:02	20802	LOPO_T1	0	2	2	0	0	0	-0.86	-0.87	1	1	0	600	600	0
2/15/2025 9:03	26401	INOR_T1	4	26	22	2.88	1.9	-0.98	0.79	0.81	0	0	0	0	0	0
2/15/2025 9:06	20801	LOPO_T1	27	38	11	0.62	0.59	-0.03	0	0	0	0	0	0	0	0
2/15/2025 9:06	20802	LOPO_T1	0	2	2	0	0	0	-0.86	-0.87	1	1	0	600	600	0
2/15/2025 9:07	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/15/2025 9:07	67503	WEWI_T2	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
2/15/2025 9:07	66701	STRA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/15/2025 9:08	66703	STRA_T1	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
2/15/2025 9:08	66701	STRA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/15/2025 9:09	63801	HEMP_T1	0	0	0	0	0	0	0.25	-0.19	0	0	0	0	0	0
2/15/2025 9:09	63804	HEMP_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
2/15/2025 9:11	66703	STRA_T1	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
2/15/2025 9:11	66701	STRA_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/15/2025 9:11	63804	HEMP_T1	1	1	0	6.3	6.4	0.1	0.79	0.83	0	0	0	0	0	0
2/15/2025 9:16	25503	MADI_T1	8	6	-2	0.75	0.73	-0.02	0	0	0	0	0	0	0	0
2/15/2025 9:16	25501	MADI_T1	134	227	93	0.55	0.54	-0.01	0	0	1	1	0	600	600	0
2/15/2025 9:24	24201	PROV_T3	5	5	0	3.9	3.78	-0.12	-1.39	-1.36	1	1	0	1200	1200	0
2/15/2025 9:24	24204	PROV_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
2/15/2025 9:26	12001	HATF_T1	2	2	0	3.9	4.7	0.8	0	0	0	0	0	0	0	0
2/15/2025 9:26	16102	BING_T2	2	4	2	2.8	3.4	0.6	0	0	0	0	0	0	0	0
2/15/2025 9:26	16103	BING_T2	0	0	0	0	0	0	-1.57	-1.54	1	1	0	900	900	0
2/15/2025 9:26	16101	BING_T2	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
2/15/2025 9:26	12006	HATF_T1	2	2	0	1.7	1.25	-0.45	0.59	0.62	0	0	0	0	0	0
2/15/2025 9:29	26701	HEML_T1	2	8	6	0.95	0.37	-0.58	0	0	0	0	0	0	0	0
2/15/2025 9:29	26703	HEML_T1	11	21	10	0.72	0.38	-0.34	-0.55	-0.57	1	1	0	600	600	0
2/15/2025 9:33	23401	HONE_T2	8	13	5	0.71	1.18	0.47	0.08	0.04	0	0	0	0	0	0
2/15/2025 9:34	55001	NEWP_T1	0	0	0	0	0	0	-0.93	-0.9	1	1	0	600	600	0
2/15/2025 9:34	55002	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/15/2025 9:34	63401	HONY_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/15/2025 9:35	53802	MBRG_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/15/2025 9:35	23401	HONE_T2	8	13	5	0.71	1.18	0.47	0.08	0.04	0	0	0	0	0	0
2/15/2025 9:36	53802	MBRG_T2	1	1	0	0.4	0	-0.4	0.82	0.71	0	0	0	0	0	0
2/15/2025 9:37	59101	WALK_T2	0	0	0	0	0	0	-0.62	-0.5	0	0	0	0	0	0
2/15/2025 9:37	55001	NEWP_T1	0	0	0	0	0	0	-0.9	-0.88	1	1	0	600	600	0
2/15/2025 9:37	55002	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/15/2025 9:38	60201	ATGL_T2	4	5	1	0.18	0.28	0.1	-0.06	-0.04	0	0	0	0	0	0
2/15/2025 9:45	53502	EVIL_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/15/2025 9:45	53501	EVIL_T2	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/15/2025 9:52	15601	NSTR_T2	34	85	51	0.5	0.5	0	0	0	0	0	0	0	0	0
2/15/2025 9:52	15603	NSTR_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/15/2025 9:56	49804	UNIV_T1	0	0	0	0	0	0	0.58	0.66	0	0	0	0	0	0
2/15/2025 9:56	49803	UNIV_T1	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
2/15/2025 10:03	59302	MCAL_T1	0	0	0	0	0	0	-0.43	-0.48	1	1	0	600	600	0
2/15/2025 10:03	59301	MCAL_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/15/2025 10:07	15602	NSTR_T2	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
2/15/2025 10:07	15603	NSTR_T2	2	2	0	0.55	0	-0.55	0	0	0	0	0	0	0	0
2/15/2025 10:07	15601	NSTR_T2	27	94	67	0.51	0.53	0.02	0	0	0	0	0	0	0	0
2/15/2025 10:11	24902	WHHA_T1	124	87	-37	0.88	0.96	0.08	0.16	0.19	0	0	0	0	0	0
2/15/2025 10:11	24901	WHHA_T1	71	39	-32	0.46	0.71	0.25	0	0	0	0	0	0	0	0
2/15/2025 10:13	45501	DERR_T2	0	0	0	0	0	0	-0.34	-0.31	2	2	0	1800	1800	0
2/15/2025 10:13	45502	DERR_T2	2	7	5	0.45	0.58	0.13	0	0	0	0	0	0	0	0
2/15/2025 10:14	45501	DERR_T2	0	0	0	0	0	0	-0.34	-0.31	2	2	0	1800	1800	0
2/15/2025 10:14	45502	DERR_T2	2	7	5	0.45	0.58	0.13	0	0	0	0	0	0	0	0
2/15/2025 10:14	63501	HEID_TBK1-2	31	38	7	0.27	0.38	0.11	-0.46	-0.42	1	1	0	900	900	0
2/15/2025 10:16	41602	CLEV_T1	0	2	2	0	0	0	0	0	1	1	0	600	600	0
2/15/2025 10:19	44502	HAMI_T2	1	2	1	1.9	1.8	-0.1	0.05	0.05	0	0	0	0	0	0
2/15/2025 10:21	60501	NMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/15/2025 10:21	60502	NMAN_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
2/15/2025 10:23	60501	NMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/15/2025 10:23	44902	SCOT_T2	0	0	0	0	0	0	-0.89	-0.94	0	0	0	0	0	0
2/15/2025 10:23	60502	NMAN_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
2/15/2025 10:23	44905	SCOT_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/15/2025 10:24	44901	SCOT_T2	0	0	0	0	0	0	-0.39	-0.47	0	0	0	0	0	0
2/15/2025 10:24	25801	SUTR_T2	6	5	-1	3.32	9.75	6.43	-0.58	-0.59	0	0	0	0	0	0
2/15/2025 10:25	67402	WAKE_T2	0	0	0	0	0	0	-0.32	-0.33	1	1	0	600	600	0
2/15/2025 10:26	67402	WAKE_T2	0	0	0	0	0	0	-0.32	-0.33	1	1	0	600	600	0
2/15/2025 10:28	10801	OHHI_T1	6	5	-1	0.82	3.6	2.78	-1.86	-1.91	3	3	0	2100	2100	0
2/15/2025 10:31	22805	HAUT_T2	44	43	-1	0.77	1.74	0.97	0	0	0	0	0	0	0	0
2/15/2025 10:31	28403	HART_T2	0	0	0	0	0	0	-0.71	-0.74	1	1	0	900	900	0
2/15/2025 10:31	22803	HAUT_T2	26	30	4	1.02	0.54	-0.48	0	0	0	0	0	0	0	0
2/15/2025 10:34	40603	PIGR_T1	1	0	-1	1.6	0	-1.6	0	0	0	0	0	0	0	0
2/15/2025 10:34	40602	PIGR_T1	0	0	0	0	0	0	-2.29	-2.15	0	0	0	0	0	0
2/15/2025 10:37	40603	PIGR_T1	1	0	-1	1.6	0	-1.6	0	0	0	0	0	0	0	0
2/15/2025 10:37	40602	PIGR_T1	0	0	0	0	0	0	-1.07	-1.03	0	0	0	0	0	0
2/15/2025 10:42	61001	DONV_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
2/15/2025 10:43	60801	BUCK_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
2/15/2025 10:45	61001	DONV_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
2/15/2025 10:45	63501	HEID_TBK1-2	36	10	-26	0.32	0.12	-0.2	-0.89	-1.54	2	2	0	1800	1800	0
2/15/2025 10:46	63501	HEID_TBK1-2	36	10	-26	0.32	0.12	-0.2	-0.89	-1.54	2	2	0	1800	1800	0
2/15/2025 10:46	46801	HEPB_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
2/15/2025 10:46	46803	HEPB_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
2/15/2025 10:49	67602	WARW_T2	1	1	0	1	0	-1	0.42	0.38	1	1	0	300	300	0
2/15/2025 10:51	66504	SMAN_T2	0	0	0	0	0	0	-1.67	-1.68	1	1	0	1200	1200	0
2/15/2025 10:51	44901	SCOT_T2	0	0	0	0	0	0	-0.41	-0.39	0	0	0	0	0	0
2/15/2025 10:52	67602	WARW_T2	1	1	0	1	0	-1	0.38	0.4	1	1	0	300	300	0
2/15/2025 10:53	66503	SMAN_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
2/15/2025 10:53	67602	WARW_T2	1	1	0	1	0	-1	0.38	0.4	1	1	0	300	300	0
2/15/2025 10:54	52502	PROG_T2	0	0	0	0	0	0	-0.34	-0.36	1	1	0	900	900	0
2/15/2025 10:54	44902	SCOT_T2	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
2/15/2025 10:58	45502	DERR_T2	5	6	1	0.56	0.58	0.02	-0.56	-0.54	0	0	0	0	0	0
2/15/2025 11:09	54601	SUMM_T2	0	0	0	0	0	0	-1.64	-1.63	2	2	0	2100	2100	0
2/15/2025 11:09	20401	ASHF_T2	4	2	-2	1	0.2	-0.8	0	0	0	0	0	0	0	0
2/15/2025 11:09	20402	ASHF_T2	10	22	12	0.8	0.59	-0.21	0	0	0	0	0	0	0	0
2/15/2025 11:09	40602	PIGR_T1	0	1	1	0	0	0	-1.07	-1.06	0	0	0	0	0	0
2/15/2025 11:09	20403	ASHF_T2	0	4	4	0	0	0	0.66	0.56	0	0	0	0	0	0
2/15/2025 11:11	54601	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/15/2025 11:11	20402	ASHF_T2	10	22	12	0.8	0.59	-0.21	0	0	0	0	0	0	0	0
2/15/2025 11:11	63501	HEID_TBK1-2	10	0	-10	0.12	0	-0.12	-0.74	0	2	4	2	1800	3000	1200
2/15/2025 11:11	20403	ASHF_T2	0	4	4	0	0	0	0.66	-0.56	0	0	0	0	0	0
2/15/2025 11:11	20401	ASHF_T2	4	2	-2	1	0.2	-0.8	0	0	0	0	0	0	0	0
2/15/2025 11:12	63501	HEID_TBK1-2	10	0	-10	0.12	0	-0.12	-0.74	0	2	4	2	1800	3000	1200
2/15/2025 11:13	20403	ASHF_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/15/2025 11:13	20402	ASHF_T2	10	22	12	0.8	0.59	-0.21	0	0	0	0	0	0	0	0
2/15/2025 11:13	20401	ASHF_T2	4	2	-2	1	0.2	-0.8	-0.19	-0.25	1	1	0	600	600	0
2/15/2025 11:14	24103	EHAZ_T1	3	4	1	0.27	0.3	0.03	-1.49	-1.48	0	0	0	0	0	0
2/15/2025 11:14	24101	EHAZ_T1	50	73	23	2.11	1.68	-0.43	0	0	0	0	0	0	0	0
2/15/2025 11:14	24105	EHAZ_T1	24	36	12	1.73	1.56	-0.17	0	0	0	0	0	0	0	0
2/15/2025 11:14	24102	EHAZ_T1	5	5	0	0.74	0.3	-0.44	0	0	0	0	0	0	0	0
2/15/2025 11:23	41902	REED_T1	9	15	6	0.48	0.38	-0.1	0.17	0.13	0	0	0	0	0	0
2/15/2025 11:24	13904	SEID_T1	38	51	13	0.8	0.81	0.01	0	0	0	0	0	0	0	0
2/15/2025 11:24	13905	SEID_T1	0	0	0	0	0	0	-0.91	-0.83	1	1	0	1200	1200	0
2/15/2025 11:25	41902	REED_T1	9	15	6	0.48	0.38	-0.1	0.17	0.13	0	0	0	0	0	0
2/15/2025 11:34	53803	MBRG_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
2/15/2025 11:34	53802	MBRG_T2	6	2	-4	1.92	0.25	-1.67	0	0	0	0	0	0	0	0
2/15/2025 12:30	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/15/2025 12:41	24902	WHHA_T1	61	119	58	0.81	0.78	-0.03	0	0	0	0	0	0	0	0
2/15/2025 12:41	24901	WHHA_T1	13	21	8	0.59	0.58	-0.01	-0.58	-0.55	0	0	0	0	0	0
2/15/2025 12:48	47401	PENS_T1	0	0	0	0	0	0	0.75	0.78	0	0	0	0	0	0
2/15/2025 13:52	63501	HEID_TBK1-2	1	1	0	0.5	0.1	-0.4	-0.48	-0.46	1	1	0	900	900	0
2/15/2025 17:18	16102	BING_T2	1	1	0	4.3	3.9	-0.4	0	0	0	0	0	0	0	0
2/15/2025 17:18	16101	BING_T2	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
2/15/2025 17:26	63401	HONY_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/15/2025 17:42	55002	NEWP_T1	2	5	3	1.15	0.56	-0.59	0	0	0	0	0	0	0	0
2/15/2025 17:42	55001	NEWP_T1	5	1	-4	0.54	0	-0.54	-0.89	-0.91	1	1	0	600	600	0
2/15/2025 17:53	23401	HONE_T2	2	3	1	0.5	0.9	0.4	-0.04	-0.05	0	0	0	0	0	0
2/15/2025 17:55	59302	MCAL_T1	1	1	0	1.4	1.8	0.4	-0.84	-0.86	1	1	0	600	600	0
2/15/2025 17:56	44901	SCOT_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
2/15/2025 17:57	23401	HONE_T2	2	3	1	0.5	0.9	0.4	-0.04	-0.05	0	0	0	0	0	0
2/15/2025 18:00	23403	HONE_T1	0	22	22	0	0.13	0.13	0	0	0	0	0	0	0	0
2/15/2025 18:00	23404	HONE_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
2/15/2025 18:01	44505	HAMI_T2	1	5	4	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/15/2025 18:01	44502	HAMI_T2	1	1	0	2.2	2.4	0.2	0.02	0.03	0	0	0	0	0	0
2/15/2025 18:01	44501	HAMI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/15/2025 18:04	10801	OHHI_T1	6	5	-1	0.4	0.35	-0.05	-1.94	-1.95	3	3	0	2100	2100	0
2/15/2025 18:09	40602	PIGR_T1	0	0	0	0	0	0	-1.03	-1.04	0	0	0	0	0	0
2/15/2025 18:13	20401	ASHF_T2	23	19	-4	0.74	0.63	-0.11	-0.2	-0.16	1	1	0	600	600	0
2/15/2025 18:13	20402	ASHF_T2	15	24	9	0.53	0.44	-0.09	0	0	0	0	0	0	0	0
2/15/2025 18:13	20403	ASHF_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
2/15/2025 18:13	59101	WALK_T2	1	1	0	0.4	0.9	0.5	-0.48	-0.5	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/15/2025 18:17	46801	HEPB_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/15/2025 18:17	46803	HEPB_T2	0	0	0	0	0	0	0.29	0.33	0	0	0	0	0	0
2/15/2025 18:19	24901	WHHA_T1	7	28	21	0.51	0.67	0.16	0	0	0	0	0	0	0	0
2/15/2025 18:19	24902	WHHA_T1	54	107	53	0.84	0.88	0.04	0.19	0.17	0	0	0	0	0	0
2/15/2025 18:21	25501	MADI_T1	204	181	-23	0.64	0.55	-0.09	0	0	1	1	0	600	600	0
2/15/2025 18:21	25503	MADI_T1	5	5	0	0.48	0.23	-0.25	0	0	0	0	0	0	0	0
2/15/2025 18:22	13905	SEID_T1	0	0	0	0	0	0	-0.87	-0.9	1	1	0	1200	1200	0
2/15/2025 18:22	13904	SEID_T1	52	55	3	1.49	1.2	-0.29	0	0	0	0	0	0	0	0
2/15/2025 18:25	20401	ASHF_T2	14	26	12	0.69	0.71	0.02	0	0	0	0	0	0	0	0
2/15/2025 18:25	20403	ASHF_T2	2	1	-1	1.25	0	-1.25	0.66	0.59	0	0	0	0	0	0
2/15/2025 18:25	20402	ASHF_T2	23	8	-15	0.48	0.37	-0.11	0	0	0	0	0	0	0	0
2/15/2025 18:26	44902	SCOT_T2	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
2/15/2025 18:28	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/15/2025 18:28	16103	BING_T2	0	0	0	0	0	0	-2.08	-2.11	2	2	0	1500	1500	0
2/15/2025 18:28	61001	DONV_T1	0	0	0	0	0	0	-0.05	0.02	0	0	0	0	0	0
2/15/2025 18:30	24205	PROV_T3	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/15/2025 18:30	24201	PROV_T3	5	5	0	4.06	3.98	-0.08	-1.29	-1.29	1	1	0	1200	1200	0
2/15/2025 18:30	24204	PROV_T3	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
2/15/2025 18:32	15601	NSTR_T2	29	89	60	0.54	0.43	-0.11	0	0	0	0	0	0	0	0
2/15/2025 18:33	55001	NEWP_T1	0	0	0	0	0	0	-0.92	-0.93	1	1	0	600	600	0
2/15/2025 18:33	20802	LOPO_T1	5	16	11	0.64	0.82	0.18	-0.83	-0.8	1	1	0	600	600	0
2/15/2025 18:33	20801	LOPO_T1	30	88	58	0.65	0.62	-0.03	0	0	0	0	0	0	0	0
2/15/2025 18:33	55002	NEWP_T1	5	6	1	0.88	0.95	0.07	0	0	0	0	0	0	0	0
2/15/2025 18:36	65205	PRIN_T1	1	2	1	1	1.3	0.3	0	0	0	0	0	0	0	0
2/15/2025 18:36	65202	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/15/2025 18:36	15601	NSTR_T2	29	89	60	0.54	0.43	-0.11	0	0	0	0	0	0	0	0
2/15/2025 18:36	44902	SCOT_T2	0	0	0	0	0	0	-0.92	-0.93	0	0	0	0	0	0
2/15/2025 18:36	15602	NSTR_T2	0	0	0	0	0	0	-0.94	0.02	0	0	0	0	0	0
2/15/2025 18:37	20801	LOPO_T1	30	88	58	0.65	0.62	-0.03	0	0	0	0	0	0	0	0
2/15/2025 18:37	20802	LOPO_T1	5	16	11	0.64	0.82	0.18	-0.8	-0.81	1	1	0	600	600	0
2/15/2025 18:42	40602	PIGR_T1	0	2	2	0	0.15	0.15	-1.04	-1.06	0	0	0	0	0	0
2/15/2025 18:42	12006	HATF_T1	0	2	2	0	0.4	0.4	0.46	0.42	0	0	0	0	0	0
2/15/2025 18:42	40601	PIGR_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
2/15/2025 18:42	12004	HATF_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/15/2025 18:42	40603	PIGR_T1	0	2	2	0	1.4	1.4	0	0	0	0	0	0	0	0
2/15/2025 18:42	12005	HATF_T1	2	2	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
2/15/2025 18:42	12001	HATF_T1	2	2	0	4.75	4.3	-0.45	0	0	0	0	0	0	0	0
2/15/2025 18:49	67602	WARW_T2	0	0	0	0	0	0	0.14	0.08	0	0	0	0	0	0
2/15/2025 18:50	61001	DONV_T1	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
2/15/2025 18:52	49803	UNIV_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
2/15/2025 18:52	49804	UNIV_T1	0	0	0	0	0	0	0.49	0.54	0	0	0	0	0	0
2/15/2025 18:53	45501	DERR_T2	0	0	0	0	0	0	-0.55	-0.52	2	2	0	1800	1800	0
2/15/2025 18:53	45502	DERR_T2	3	6	3	0.7	1.03	0.33	0	0	0	0	0	0	0	0
2/15/2025 18:53	25801	SUTR_T2	9	13	4	2.56	3.67	1.11	-0.51	-0.51	0	0	0	0	0	0
2/15/2025 18:56	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/15/2025 19:00	60201	ATGL_T2	6	9	3	0.15	0.18	0.03	-0.19	-0.24	0	0	0	0	0	0
2/15/2025 19:01	53802	MBRG_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/15/2025 19:01	53803	MBRG_T2	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
2/15/2025 19:02	24103	EHAZ_T1	14	0	-14	0.45	0	-0.45	-1.48	-1.45	0	0	0	0	0	0
2/15/2025 19:02	24105	EHAZ_T1	47	44	-3	2.06	2.8	0.74	0	0	0	0	0	0	0	0
2/15/2025 19:02	24101	EHAZ_T1	68	76	8	1.5	1.77	0.27	0	0	0	0	0	0	0	0
2/15/2025 19:02	24102	EHAZ_T1	8	21	13	0.95	0.5	-0.45	0	0	0	0	0	0	0	0
2/15/2025 19:03	53802	MBRG_T2	1	1	0	0.7	0	-0.7	0.18	0.31	0	0	0	0	0	0
2/15/2025 19:04	63804	HEMP_T1	1	1	0	5.9	5.9	0	0.9	0.89	0	0	0	0	0	0
2/15/2025 19:07	63804	HEMP_T1	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
2/15/2025 19:07	63801	HEMP_T1	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
2/15/2025 19:07	53801	MBRG_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/15/2025 19:08	53802	MBRG_T2	1	1	0	0.7	0	-0.7	0.31	0.26	0	0	0	0	0	0
2/15/2025 19:08	40603	PIGR_T1	1	0	-1	3	0	-3	0	0	0	0	0	0	0	0
2/15/2025 19:08	40601	PIGR_T1	3	3	0	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
2/15/2025 19:08	40602	PIGR_T1	2	0	-2	0.15	0	-0.15	-1.03	0.22	0	0	0	0	0	0
2/15/2025 19:14	20403	ASHF_T2	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
2/15/2025 19:14	20401	ASHF_T2	14	5	-9	0.37	0.4	0.03	0	0	0	0	0	0	0	0
2/15/2025 19:14	20402	ASHF_T2	9	9	0	0.52	0.33	-0.19	0	0	0	0	0	0	0	0
2/15/2025 19:15	63501	HEID_TBK1-2	17	17	0	0.15	0.15	0	-0.5	-0.45	1	1	0	900	900	0
2/15/2025 19:15	22803	HAUT_T2	68	80	12	0.87	0.87	0	0	0	0	0	0	0	0	0
2/15/2025 19:15	22805	HAUT_T2	135	110	-25	1.04	1.21	0.17	0	0	0	0	0	0	0	0
2/15/2025 19:16	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/15/2025 19:16	66701	STRA_T1	5	1	-4	0.72	1	0.28	0	0	0	0	0	0	0	0
2/15/2025 19:18	60502	NMAN_T2	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
2/15/2025 19:19	66703	STRA_T1	0	0	0	0	0	0	-0.75	-0.8	0	0	0	0	0	0
2/15/2025 19:19	66701	STRA_T1	5	1	-4	0.72	1	0.28	0	0	0	0	0	0	0	0
2/15/2025 19:20	63501	HEID_TBK1-2	17	17	0	0.15	0.15	0	-0.5	-0.45	1	1	0	900	900	0
2/15/2025 19:22	66703	STRA_T1	0	0	0	0	0	0	-0.8	-0.87	0	0	0	0	0	0
2/15/2025 19:22	66701	STRA_T1	5	1	-4	0.72	1	0.28	0	0	0	0	0	0	0	0
2/15/2025 19:22	53501	EVIL_T2	1	2	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
2/15/2025 19:24	24902	WHHA_T1	74	82	8	0.95	0.74	-0.21	0	0	0	0	0	0	0	0
2/15/2025 19:24	24901	WHHA_T1	13	16	3	0.65	0.8	0.15	-0.61	-0.6	0	0	0	0	0	0
2/15/2025 19:26	66505	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/15/2025 19:26	66504	SMAN_T2	0	0	0	0	0	0	-1.73	-1.73	1	1	0	1200	1200	0
2/15/2025 19:28	67602	WARW_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
2/15/2025 19:28	66505	SMAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/15/2025 19:28	66503	SMAN_T2	0	0	0	0	0	0	0.37	0.33	0	0	0	0	0	0
2/15/2025 19:30	63501	HEID_TBK1-2	16	9	-7	0.16	0.12	-0.04	-0.45	-0.47	1	1	0	900	900	0
2/15/2025 19:31	41902	REED_T1	0	0	0	0	0	0	0.15	0.19	0	0	0	0	0	0
2/15/2025 19:33	60801	BUCK_T1	0	0	0	0	0	0	-0.87	-0.21	1	0	-1	600	0	-600
2/15/2025 19:36	67402	WAKE_T2	0	0	0	0	0	0	-0.35	-0.34	1	1	0	600	600	0
2/15/2025 19:37	67402	WAKE_T2	0	0	0	0	0	0	-0.35	-0.34	1	1	0	600	600	0
2/15/2025 19:39	44905	SCOT_T1	10	13	3	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/15/2025 20:58	52502	PROG_T2	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
2/15/2025 21:01	67602	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/15/2025 21:07	60502	NMAN_T2	0	0	0	0	0	0	-0.58	-0.61	0	0	0	0	0	0
2/15/2025 21:12	45501	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/15/2025 21:12	45502	DERR_T2	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
2/15/2025 21:14	45501	DERR_T2	0	1	1	0	0	0	-0.68	-0.69	2	2	0	1800	1800	0
2/15/2025 21:16	63501	HEID_TBK1-2	30	35	5	0.28	0.37	0.09	-0.52	-0.6	1	1	0	900	900	0
2/15/2025 21:29	41902	REED_T1	0	2	2	0	0.35	0.35	0.06	-0.03	0	0	0	0	0	0
2/15/2025 22:20	28403	HART_T2	0	0	0	0	0	0	-0.88	-0.88	1	1	0	900	900	0
2/15/2025 22:23	44901	SCOT_T2	3	4	1	0.13	0.1	-0.03	-0.56	-0.56	0	0	0	0	0	0
2/15/2025 22:23	44902	SCOT_T2	23	2	-21	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
2/15/2025 23:03	26401	INOR_T1	2	2	0	7.05	7.85	0.8	0.55	0.54	0	0	0	0	0	0
2/16/2025 9:00	28102	TWLA_T2	1	1	0	2.7	1.3	-1.4	0.24	0.27	0	0	0	0	0	0
2/16/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
2/16/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 9:00	40504	CRES_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 9:53	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 9:53	66701	STRA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/16/2025 11:39	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 11:48	60502	NMAN_T2	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
2/16/2025 12:08	63501	HEID_TBK1-2	1	18	17	0.9	0.2	-0.7	-0.47	-0.5	1	1	0	900	900	0
2/16/2025 12:12	54602	SUMM_T2	0	0	0	0	0	0	-2.4	-2.36	1	1	0	600	600	0
2/16/2025 12:16	64403	LAND_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 12:16	64401	LAND_T1	0	0	0	0	0	0	-2.25	-2.27	2	2	0	1200	1200	0
2/16/2025 12:17	64401	LAND_T1	0	0	0	0	0	0	-1.12	-1.14	1	1	0	600	600	0
2/16/2025 12:17	64403	LAND_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 12:18	63601	LETO_T1	6	6	0	0.63	0.7	0.07	-0.12	-0.21	1	1	0	900	900	0
2/16/2025 12:20	60502	NMAN_T2	0	2	2	0	0	0	-0.5	-0.55	0	0	0	0	0	0
2/16/2025 12:20	64401	LAND_T1	0	0	0	0	0	0	-1.12	-1.14	1	1	0	600	600	0
2/16/2025 12:20	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 12:20	64403	LAND_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 12:20	62105	ELAN_T1	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
2/16/2025 12:21	66703	STRA_T1	0	0	0	0	0	0	-0.95	-0.98	0	0	0	0	0	0
2/16/2025 12:22	60502	NMAN_T2	0	2	2	0	0	0	-0.55	-0.57	0	0	0	0	0	0
2/16/2025 12:23	66703	STRA_T1	0	0	0	0	0	0	-1.91	-1.96	0	0	0	0	0	0
2/16/2025 12:24	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 12:25	60201	ATGL_T2	5	23	18	0.36	0.23	-0.13	0.71	0.68	0	0	0	0	0	0
2/16/2025 12:29	65205	PRIN_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
2/16/2025 12:29	65202	PRIN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/16/2025 12:30	41801	GOCI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/16/2025 12:41	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/16/2025 12:41	62104	ELAN_T1	0	0	0	0	0	0	-0.05	-0.06	1	1	0	1200	1200	0
2/16/2025 12:42	60201	ATGL_T2	10	64	54	0.29	0.29	0	0.68	0.73	0	0	0	0	0	0
2/16/2025 12:43	62104	ELAN_T1	0	0	0	0	0	0	-0.05	-0.06	1	1	0	1200	1200	0
2/16/2025 12:43	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/16/2025 12:45	46801	HEPB_T2	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
2/16/2025 12:45	46803	HEPB_T2	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
2/16/2025 12:46	12704	MACU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 12:48	12704	MACU_T1	0	0	0	0	0	0	-1.49	-1.49	1	1	0	600	600	0
2/16/2025 12:49	52401	GRPA_T2	3	1	-2	0.43	0	-0.43	0	0	0	0	0	0	0	0
2/16/2025 12:49	52402	GRPA_T2	24	19	-5	0.46	0.1	-0.36	0	0	0	0	0	0	0	0
2/16/2025 12:49	52403	GRPA_T2	8	15	7	1.29	0.57	-0.72	0	0	0	0	0	0	0	0
2/16/2025 12:50	62103	ELAN_T1	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
2/16/2025 12:50	62104	ELAN_T1	0	0	0	0	0	0	-0.05	-0.06	1	1	0	1200	1200	0
2/16/2025 12:54	66703	STRA_T1	0	4	4	0	0.18	0.18	-0.96	-1	0	0	0	0	0	0
2/16/2025 12:54	66701	STRA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/16/2025 12:54	65703	RVIL_T1	0	0	0	0	0	0	-1.29	-1.27	1	1	0	900	900	0
2/16/2025 12:55	60803	BUCK_T1	23	27	4	0.45	0.51	0.06	0	0	0	0	0	0	0	0
2/16/2025 12:55	24902	WHHA_T1	17	14	-3	0.78	0.71	-0.07	0.13	0.14	0	0	0	0	0	0
2/16/2025 12:55	24901	WHHA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/16/2025 12:55	60801	BUCK_T1	35	56	21	0.4	0.43	0.03	-0.57	-0.59	0	0	0	0	0	0
2/16/2025 12:56	67402	WAKE_T2	0	0	0	0	0	0	0.28	0.22	0	0	0	0	0	0
2/16/2025 12:56	60801	BUCK_T1	35	56	21	0.4	0.43	0.03	0	0	0	0	0	0	0	0
2/16/2025 12:56	60803	BUCK_T1	23	27	4	0.45	0.51	0.06	0	0	0	0	0	0	0	0
2/16/2025 12:57	67402	WAKE_T2	0	0	0	0	0	0	0.28	0.22	0	0	0	0	0	0
2/16/2025 12:58	60803	BUCK_T1	23	27	4	0.45	0.51	0.06	0	0	0	0	0	0	0	0
2/16/2025 12:58	60801	BUCK_T1	35	56	21	0.4	0.43	0.03	-0.19	-0.2	0	0	0	0	0	0
2/16/2025 12:59	60803	BUCK_T1	23	27	4	0.45	0.51	0.06	0	0	0	0	0	0	0	0
2/16/2025 12:59	60801	BUCK_T1	35	56	21	0.4	0.43	0.03	0	0	0	0	0	0	0	0
2/16/2025 13:01	46801	HEPB_T2	2	2	0	0.8	0.9	0.1	-0.33	-0.34	0	0	0	0	0	0
2/16/2025 13:01	62106	ELAN_T1	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
2/16/2025 13:01	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/16/2025 13:05	53802	MBRG_T2	0	0	0	0	0	0	0.25	0.2	0	0	0	0	0	0
2/16/2025 13:06	55001	NEWP_T1	0	0	0	0	0	0	-0.93	-0.97	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/16/2025 13:06	55002	NEWP_T1	4	5	1	0.53	0.82	0.29	0	0	0	0	0	0	0	0
2/16/2025 13:08	55002	NEWP_T1	4	5	1	0.53	0.82	0.29	0	0	0	0	0	0	0	0
2/16/2025 13:08	55001	NEWP_T1	0	0	0	0	0	0	-0.97	-0.38	1	0	-1	600	0	-600
2/16/2025 13:09	67605	WARW_T1	0	0	0	0	0	0	-0.93	-0.96	0	0	0	0	0	0
2/16/2025 13:10	42701	AUGU_T1	0	1	1	0	0.3	0.3	0	0	2	2	0	1800	1800	0
2/16/2025 13:10	16102	BING_T2	1	1	0	5.3	4.5	-0.8	0.18	0.05	0	0	0	0	0	0
2/16/2025 13:11	66701	STRA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/16/2025 13:11	66703	STRA_T1	4	1	-3	0.18	0.1	-0.08	-1	-1.01	0	0	0	0	0	0
2/16/2025 13:12	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/16/2025 13:12	62104	ELAN_T1	0	0	0	0	0	0	-0.09	-0.08	1	1	0	1200	1200	0
2/16/2025 13:12	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 13:12	60201	ATGL_T2	64	51	-13	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
2/16/2025 13:13	61502	EPET_T1	0	0	0	0	0	0	-1.45	-1.46	0	0	0	0	0	0
2/16/2025 13:13	60201	ATGL_T2	64	51	-13	0.29	0.26	-0.03	0.59	0.57	0	0	0	0	0	0
2/16/2025 13:14	62106	ELAN_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
2/16/2025 13:14	62103	ELAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/16/2025 13:18	64201	KINZ_T1	3	6	3	0.1	0.2	0.1	-0.57	-0.44	2	2	0	1200	1200	0
2/16/2025 13:18	64204	KINZ_T1	3	5	2	0.27	0.34	0.07	0	0	0	0	0	0	0	0
2/16/2025 13:18	64202	KINZ_T1	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
2/16/2025 13:18	64203	KINZ_T1	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
2/16/2025 13:23	67201	TEHI_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
2/16/2025 13:25	67203	TEHI_T1	0	0	0	0	0	0	1.02	1.03	1	1	0	900	900	0
2/16/2025 13:26	16101	BING_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
2/16/2025 13:26	45502	DERR_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/16/2025 13:26	45501	DERR_T2	0	0	0	0	0	0	-0.36	-0.38	2	2	0	1800	1800	0
2/16/2025 13:26	16102	BING_T2	1	1	0	3.9	4.6	0.7	0	0	0	0	0	0	0	0
2/16/2025 13:28	11101	EGYP_T1	0	0	0	0	0	0	-0.77	-0.76	1	1	0	1200	1200	0
2/16/2025 13:28	11104	EGYP_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
2/16/2025 13:28	11102	EGYP_T1	0	6	6	0	0.47	0.47	0	0	0	0	0	0	0	0
2/16/2025 13:30	11104	EGYP_T1	3	1	-2	0.47	0	-0.47	0	0	0	0	0	0	0	0
2/16/2025 13:30	11101	EGYP_T1	0	0	0	0	0	0	-0.77	-0.76	1	1	0	1200	1200	0
2/16/2025 13:30	11102	EGYP_T1	6	6	0	0.48	0	-0.48	0	0	0	0	0	0	0	0
2/16/2025 13:31	63403	HONY_T2	0	0	0	0	0	0	0.05	-0.05	0	0	0	0	0	0
2/16/2025 13:32	11104	EGYP_T1	3	1	-2	0.47	0	-0.47	0	0	0	0	0	0	0	0
2/16/2025 13:32	11101	EGYP_T1	0	0	0	0	0	0	-0.77	-0.76	1	1	0	1200	1200	0
2/16/2025 13:32	63601	LETO_T1	6	7	1	0.93	0.6	-0.33	-0.23	-0.18	1	1	0	900	900	0
2/16/2025 13:32	11102	EGYP_T1	6	6	0	0.48	0	-0.48	0	0	0	0	0	0	0	0
2/16/2025 13:35	56501	ROCK_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/16/2025 13:35	56504	ROCK_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/16/2025 13:35	56503	ROCK_T2	0	0	0	0	0	0	-2.71	-1.76	1	0	-1	1200	0	-1200
2/16/2025 13:38	40601	PIGR_T1	0	17	17	0	0.15	0.15	0	0	0	0	0	0	0	0
2/16/2025 13:38	66703	STRA_T1	0	4	4	0	0.23	0.23	-1	-0.91	0	0	0	0	0	0
2/16/2025 13:38	66701	STRA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/16/2025 13:41	66202	SISP_T2	0	0	0	0	0	0	-0.77	-0.8	0	0	0	0	0	0
2/16/2025 13:41	66203	SISP_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/16/2025 13:51	57201	ROSS_T1	0	0	0	0	0	0	-1.1	-1.07	0	0	0	0	0	0
2/16/2025 13:53	57201	ROSS_T1	0	0	0	0	0	0	-1.07	-1.08	0	0	0	0	0	0
2/16/2025 14:00	11101	EGYP_T1	0	0	0	0	0	0	-0.76	-0.81	1	1	0	1200	1200	0
2/16/2025 14:02	67106	SPRI_T2	0	0	0	0	0	0	-1.91	-1.9	1	1	0	900	900	0
2/16/2025 14:03	61506	EPET_T2	0	0	0	0	0	0	-1.09	-1.2	1	1	0	900	900	0
2/16/2025 14:03	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 14:07	40601	PIGR_T1	17	47	30	0.15	0.16	0.01	-0.08	-0.12	0	0	0	0	0	0
2/16/2025 14:08	40602	PIGR_T1	0	0	0	0	0	0	-2.45	-2.45	2	2	0	1200	1200	0
2/16/2025 14:08	40601	PIGR_T1	17	47	30	0.15	0.16	0.01	0	0	0	0	0	0	0	0
2/16/2025 14:11	67703	WERN_T2	0	0	0	0	0	0	-0.16	-0.19	1	1	0	900	900	0
2/16/2025 14:11	60201	ATGL_T2	58	87	29	0.26	0.29	0.03	1.19	1.23	0	0	0	0	0	0
2/16/2025 14:13	60201	ATGL_T2	58	87	29	0.26	0.29	0.03	0	0	0	0	0	0	0	0
2/16/2025 14:13	45501	DERR_T2	0	0	0	0	0	0	-0.74	-0.69	4	4	0	3600	3600	0
2/16/2025 14:14	67703	WERN_T2	0	0	0	0	0	0	-0.16	-0.19	1	1	0	900	900	0
2/16/2025 14:14	40505	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 14:18	10901	COOP_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/16/2025 14:18	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 14:20	12602	MACA_T1	85	92	7	0.44	0.4	-0.04	-2.02	-2.05	0	0	0	0	0	0
2/16/2025 14:20	12606	MACA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/16/2025 14:26	12006	HATF_T1	5	7	2	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
2/16/2025 14:26	12002	HATF_T1	2	2	0	0.15	0.15	0	-0.18	-0.11	0	0	0	0	0	0
2/16/2025 14:26	12007	HATF_T1	18	23	5	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
2/16/2025 14:26	12001	HATF_T1	47	40	-7	0.18	0.14	-0.04	0	0	0	0	0	0	0	0
2/16/2025 14:26	12005	HATF_T1	4	5	1	0.85	0.68	-0.17	0	0	0	0	0	0	0	0
2/16/2025 14:26	12004	HATF_T1	32	29	-3	0.29	0.32	0.03	0	0	0	0	0	0	0	0
2/16/2025 14:28	12005	HATF_T1	4	5	1	0.85	0.68	-0.17	0	0	0	0	0	0	0	0
2/16/2025 14:28	12001	HATF_T1	47	40	-7	0.18	0.14	-0.04	0	0	0	0	0	0	0	0
2/16/2025 14:28	12007	HATF_T1	18	23	5	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
2/16/2025 14:28	12004	HATF_T1	32	29	-3	0.29	0.32	0.03	0	0	0	0	0	0	0	0
2/16/2025 14:28	12006	HATF_T1	5	7	2	0.22	0.2	-0.02	0.33	0.33	0	0	0	0	0	0
2/16/2025 14:28	12002	HATF_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
2/16/2025 14:29	46801	HEPB_T2	2	2	0	1.2	1.3	0.1	-0.38	-0.38	0	0	0	0	0	0
2/16/2025 14:32	11104	EGYP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/16/2025 14:32	11101	EGYP_T1	0	0	0	0	0	0	-0.8	-0.78	1	1	0	1200	1200	0
2/16/2025 14:38	57205	ROSS_T1	0	0	0	0	0	0	-0.87	-0.85	1	1	0	900	900	0
2/16/2025 14:44	61304	EARL_T1	0	0	0	0	0	0	-0.97	-1	1	1	0	600	600	0
2/16/2025 14:50	59302	MCAL_T1	1	0	-1	0.3	0	-0.3	-0.98	-0.68	1	1	0	600	600	0
2/16/2025 14:50	59301	MCAL_T1	2	2	0	0.65	0.8	0.15	0	0	0	0	0	0	0	0
2/16/2025 14:55	46206	DANV_T2	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/16/2025 14:55	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/16/2025 14:55	46203	DANV_T2	17	80	63	0.47	0.45	-0.02	-2.14	-2.19	0	0	0	0	0	0
2/16/2025 15:02	47203	FAXO_T2	0	0	0	0	0	0	-1.74	-1.75	1	1	0	1200	1200	0
2/16/2025 15:08	15203	SFAR_T2	0	0	0	0	0	0	-1.24	-1.23	0	0	0	0	0	0
2/16/2025 15:08	46203	DANV_T2	15	84	69	0.45	0.47	0.02	-2.19	-2.2	0	0	0	0	0	0
2/16/2025 15:08	46206	DANV_T2	2	4	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/16/2025 15:12	45501	DERR_T2	0	0	0	0	0	0	-0.39	-0.38	2	2	0	1800	1800	0
2/16/2025 15:13	61001	DONV_T1	0	0	0	0	0	0	0.54	0.59	0	0	0	0	0	0
2/16/2025 15:29	45501	DERR_T2	0	0	0	0	0	0	-0.77	-0.77	4	4	0	3600	3600	0
2/16/2025 16:39	60803	BUCK_T1	23	20	-3	0.33	0.31	-0.02	-0.52	-0.54	1	1	0	600	600	0
2/16/2025 16:39	60801	BUCK_T1	42	46	4	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
2/16/2025 16:42	59101	WALK_T2	0	0	0	0	0	0	0.18	1.47	0	0	0	0	0	0
2/16/2025 16:45	60803	BUCK_T1	20	17	-3	0.29	0.29	0	-0.52	-0.54	1	1	0	600	600	0
2/16/2025 16:45	60801	BUCK_T1	45	38	-7	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
2/16/2025 18:05	55002	NEWP_T1	4	4	0	1.4	1.28	-0.12	0	0	0	0	0	0	0	0
2/16/2025 18:05	55001	NEWP_T1	0	0	0	0	0	0	-0.92	-0.93	1	1	0	600	600	0
2/16/2025 18:07	55001	NEWP_T1	0	0	0	0	0	0	-0.93	-0.9	1	1	0	600	600	0
2/16/2025 18:07	55002	NEWP_T1	4	4	0	1.4	1.28	-0.12	0	0	0	0	0	0	0	0
2/16/2025 18:27	59101	WALK_T2	0	208	208	0	0	0	0.36	0.27	1	1	0	600	600	0
2/16/2025 18:41	59301	MCAL_T1	0	3	3	0	8.05	8.05	0	0	0	0	0	0	0	0
2/16/2025 18:41	59302	MCAL_T1	0	0	0	0	0	0	-0.6	-0.58	1	1	0	600	600	0
2/16/2025 19:13	63501	HEID_TBK1-2	31	2	-29	0.34	0.5	0.16	-0.49	-0.34	1	1	0	900	900	0
2/16/2025 19:23	45502	DERR_T2	1	3	2	0.4	1.1	0.7	0	0	0	0	0	0	0	0
2/16/2025 19:23	45501	DERR_T2	2	1	-1	0.45	0	-0.45	-0.52	-0.49	2	2	0	1800	1800	0
2/16/2025 19:27	24902	WHHA_T1	15	14	-1	1.08	0.81	-0.27	0.15	0.14	0	0	0	0	0	0
2/16/2025 19:27	24901	WHHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/16/2025 19:33	45501	DERR_T2	1	6	5	0.7	0	-0.7	-0.52	-0.49	2	2	0	1800	1800	0
2/16/2025 19:33	45502	DERR_T2	1	4	3	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
2/16/2025 19:34	10903	COOP_T2	1	0	-1	10	0	-10	0	0	0	0	0	0	0	0
2/16/2025 19:34	64401	LAND_T1	0	0	0	0	0	0	-1.12	-1.1	1	1	0	600	600	0
2/16/2025 19:36	15203	SFAR_T2	0	0	0	0	0	0	-1.25	-1.23	0	0	0	0	0	0
2/16/2025 19:36	12602	MACA_T1	12	17	5	0.24	0.18	-0.06	-2.05	-2.06	0	0	0	0	0	0
2/16/2025 19:38	16101	BING_T2	0	1	1	0	1.1	1.1	0.58	0.57	0	0	0	0	0	0
2/16/2025 19:38	61506	EPET_T2	0	0	0	0	0	0	-1.22	-1.25	1	1	0	900	900	0
2/16/2025 19:38	16102	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/16/2025 19:39	67106	SPRI_T2	0	0	0	0	0	0	-1.89	-1.9	1	1	0	900	900	0
2/16/2025 19:39	62104	ELAN_T1	0	0	0	0	0	0	-0.12	-0.16	1	1	0	1200	1200	0
2/16/2025 19:40	16102	BING_T2	1	0	-1	0.1	0	-0.1	0.03	0.06	0	0	0	0	0	0
2/16/2025 19:40	16101	BING_T2	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
2/16/2025 19:40	11101	EGYP_T1	0	0	0	0	0	0	-0.73	-0.77	1	1	0	1200	1200	0
2/16/2025 19:40	11104	EGYP_T1	25	2	-23	0.34	0.55	0.21	0	0	0	0	0	0	0	0
2/16/2025 19:41	64204	KINZ_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
2/16/2025 19:41	60201	ATGL_T2	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
2/16/2025 19:41	64201	KINZ_T1	0	0	0	0	0	0	-0.77	-0.74	3	3	0	1500	1500	0
2/16/2025 19:42	12002	HATF_T1	5	0	-5	7.04	0	-7.04	0	0	0	0	0	0	0	0
2/16/2025 19:42	12004	HATF_T1	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0	0
2/16/2025 19:42	12001	HATF_T1	1	2	1	0.9	0	-0.9	0	0	0	0	0	0	0	0
2/16/2025 19:42	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
2/16/2025 19:42	12005	HATF_T1	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0	0
2/16/2025 19:42	12006	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 19:42	56501	ROCK_T2	4	2	-2	0.88	1.25	0.37	0	0	0	0	0	0	0	0
2/16/2025 19:42	56503	ROCK_T2	0	0	0	0	0	0	-1.28	-1.24	1	1	0	1200	1200	0
2/16/2025 19:43	60803	BUCK_T1	0	0	0	0	0	0	-0.49	-0.51	1	1	0	600	600	0
2/16/2025 19:43	63402	HONY_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/16/2025 19:43	63403	HONY_T2	0	0	0	0	0	0	-0.48	0.1	0	0	0	0	0	0
2/16/2025 19:43	62104	ELAN_T1	0	0	0	0	0	0	-0.12	-0.16	1	1	0	1200	1200	0
2/16/2025 19:43	62106	ELAN_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
2/16/2025 19:44	62106	ELAN_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
2/16/2025 19:44	65205	PRIN_T1	1	2	1	0.8	2.25	1.45	0	0	0	0	0	0	0	0
2/16/2025 19:44	65703	RVIL_T1	0	0	0	0	0	0	-1.29	-1.28	1	1	0	900	900	0
2/16/2025 19:44	63601	LETO_T1	0	0	0	0	0	0	-0.18	-0.13	1	1	0	900	900	0
2/16/2025 19:44	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
2/16/2025 19:45	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 19:45	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 19:45	62104	ELAN_T1	0	0	0	0	0	0	-0.12	-0.16	1	1	0	1200	1200	0
2/16/2025 19:45	40504	CRES_T1	0	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0
2/16/2025 19:45	63601	LETO_T1	0	0	0	0	0	0	-0.18	-0.13	1	1	0	900	900	0
2/16/2025 19:45	40505	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 19:46	45501	DERR_T2	0	6	6	0	0.55	0.55	-0.49	-0.61	2	2	0	1800	1800	0
2/16/2025 19:46	45502	DERR_T2	3	5	2	0.67	0.83	0.16	0	0	0	0	0	0	0	0
2/16/2025 19:47	62104	ELAN_T1	0	0	0	0	0	0	-0.12	-0.16	1	1	0	1200	1200	0
2/16/2025 19:48	40601	PIGR_T1	0	0	0	0	0	0	-0.05	-0.13	0	0	0	0	0	0
2/16/2025 19:48	54603	SUMM_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/16/2025 19:48	57205	ROSS_T1	0	0	0	0	0	0	-0.88	-0.86	1	1	0	900	900	0
2/16/2025 19:48	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 19:49	40602	PIGR_T1	0	0	0	0	0	0	-2.2	-2.15	2	2	0	1200	1200	0
2/16/2025 19:49	60201	ATGL_T2	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
2/16/2025 19:49	54603	SUMM_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/16/2025 19:49	46801	HEPB_T2	2	2	0	0.75	0.95	0.2	-0.36	-0.38	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/16/2025 19:49	66703	STRA_T1	0	0	0	0	0	0	-3.2	-3.06	0	0	0	0	0	0
2/16/2025 19:49	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 19:50	46801	HEPB_T2	2	2	0	0.75	0.95	0.2	-0.36	-0.38	0	0	0	0	0	0
2/16/2025 19:50	57201	ROSS_T1	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
2/16/2025 19:50	60801	BUCK_T1	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
2/16/2025 19:50	46803	HEPB_T2	0	0	0	0	0	0	0.32	0.27	0	0	0	0	0	0
2/16/2025 19:50	47203	FAXO_T2	0	0	0	0	0	0	-1.73	-1.73	1	1	0	1200	1200	0
2/16/2025 19:50	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 19:50	45501	DERR_T2	0	6	6	0	0.55	0.55	-0.49	-0.61	2	2	0	1800	1800	0
2/16/2025 19:50	66703	STRA_T1	0	0	0	0	0	0	-1.07	-1.02	0	0	0	0	0	0
2/16/2025 19:50	45502	DERR_T2	3	5	2	0.67	0.83	0.16	0	0	0	0	0	0	0	0
2/16/2025 19:51	46203	DANV_T2	125	97	-28	0.72	0.66	-0.06	-2.97	-2.99	0	0	0	0	0	0
2/16/2025 19:51	46204	DANV_T2	51	67	16	0.32	0.2	-0.12	0	0	0	0	0	0	0	0
2/16/2025 19:51	46206	DANV_T2	10	9	-1	0.54	1	0.46	0	0	0	0	0	0	0	0
2/16/2025 19:51	67201	TEHI_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
2/16/2025 19:51	41801	GOCI_T2	0	1	1	0	0	0	0	0	1	0	-1	900	0	-900
2/16/2025 19:51	62105	ELAN_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
2/16/2025 19:51	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 19:52	60502	NMAN_T2	0	0	0	0	0	0	-0.51	-0.59	0	0	0	0	0	0
2/16/2025 19:52	60201	ATGL_T2	0	0	0	0	0	0	1.2	1.15	0	0	0	0	0	0
2/16/2025 19:52	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 19:52	61001	DONV_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
2/16/2025 19:52	64204	KINZ_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
2/16/2025 19:52	64203	KINZ_T1	0	0	0	0	0	0	-0.53	-0.51	1	1	0	600	600	0
2/16/2025 19:53	64401	LAND_T1	0	0	0	0	0	0	-1.11	-1.12	1	1	0	600	600	0
2/16/2025 19:53	66202	SISP_T2	0	0	0	0	0	0	-0.98	-0.97	0	0	0	0	0	0
2/16/2025 19:53	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 19:53	61502	EPET_T1	0	0	0	0	0	0	-1.43	-1.46	0	0	0	0	0	0
2/16/2025 19:53	57201	ROSS_T1	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
2/16/2025 19:53	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/16/2025 19:53	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2025 19:53	60502	NMAN_T2	0	0	0	0	0	0	-0.51	-0.59	0	0	0	0	0	0
2/16/2025 19:54	60803	BUCK_T1	0	0	0	0	0	0	-0.51	-0.52	1	1	0	600	600	0
2/16/2025 19:54	53802	MBRG_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
2/16/2025 19:54	66703	STRA_T1	0	0	0	0	0	0	-1.02	-1.05	0	0	0	0	0	0
2/16/2025 19:55	66703	STRA_T1	0	0	0	0	0	0	-1.02	-1.05	0	0	0	0	0	0
2/16/2025 19:55	60801	BUCK_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
2/16/2025 19:56	67402	WAKE_T2	0	0	0	0	0	0	-0.75	-0.77	2	2	0	1200	1200	0
2/16/2025 19:57	64401	LAND_T1	0	0	0	0	0	0	-1.11	-1.12	1	1	0	600	600	0
2/16/2025 19:59	61304	EARL_T1	0	0	0	0	0	0	-1.01	-0.97	1	1	0	600	600	0
2/16/2025 19:59	67605	WARW_T1	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
2/16/2025 20:00	52404	GRPA_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/16/2025 20:00	52403	GRPA_T2	32	14	-18	0.79	0.94	0.15	0	0	0	0	0	0	0	0
2/16/2025 20:00	52402	GRPA_T2	35	42	7	0.64	0.61	-0.03	0	0	0	0	0	0	0	0
2/16/2025 20:30	12704	MACU_T1	0	0	0	0	0	0	-1.51	-1.54	1	1	0	600	600	0
2/17/2025 7:38	66703	STRA_T1	0	0	0	0	0	0	-1.04	-1.12	0	0	0	0	0	0
2/17/2025 7:38	66701	STRA_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/17/2025 7:40	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 7:40	66701	STRA_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/17/2025 7:49	47101	MARL_T1	117	113	-4	0.67	0.65	-0.02	0	0	1	1	0	600	600	0
2/17/2025 7:49	25801	SUTR_T2	4	5	1	4.6	6.4	1.8	-0.52	-0.55	0	0	0	0	0	0
2/17/2025 7:53	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 7:54	16103	BING_T2	0	0	0	0	0	0	-2.11	-2.08	2	2	0	1500	1500	0
2/17/2025 7:54	66701	STRA_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
2/17/2025 7:54	16102	BING_T2	1	1	0	2	3.3	1.3	0	0	0	0	0	0	0	0
2/17/2025 7:54	66703	STRA_T1	0	0	0	0	0	0	-1.12	-1.14	0	0	0	0	0	0
2/17/2025 7:54	16101	BING_T2	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
2/17/2025 7:56	46204	DANV_T2	117	121	4	0.98	0.7	-0.28	0	0	0	0	0	0	0	0
2/17/2025 7:56	46206	DANV_T2	57	39	-18	0.58	0.46	-0.12	0	0	0	0	0	0	0	0
2/17/2025 7:56	46203	DANV_T2	42	47	5	0.75	0.72	-0.03	-2.86	-1.54	0	0	0	0	0	0
2/17/2025 7:57	46206	DANV_T2	57	39	-18	0.58	0.46	-0.12	0	0	0	0	0	0	0	0
2/17/2025 7:57	46204	DANV_T2	117	121	4	0.98	0.7	-0.28	0	0	0	0	0	0	0	0
2/17/2025 7:57	46203	DANV_T2	42	47	5	0.75	0.72	-0.03	-2.86	-1.54	0	0	0	0	0	0
2/17/2025 7:58	10801	CHHI_T1	5	11	6	0.44	0.5	0.06	-1.76	-1.75	3	3	0	2100	2100	0
2/17/2025 8:02	65603	QVIL_T2	0	0	0	0	0	0	0.76	0.8	0	0	0	0	0	0
2/17/2025 8:04	53903	HALI_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
2/17/2025 8:04	53902	HALI_T2	1	1	0	4.8	4.7	-0.1	-0.75	-0.78	0	0	0	0	0	0
2/17/2025 8:04	53901	HALI_T2	67	32	-35	4.01	0	-4.01	0	0	0	0	0	0	0	0
2/17/2025 8:08	45502	DERR_T2	16	14	-2	0.73	0.69	-0.04	0	0	0	0	0	0	0	0
2/17/2025 8:08	45501	DERR_T2	10	13	3	0.56	0.32	-0.24	0.47	0.44	2	2	0	1800	1800	0
2/17/2025 8:08	43402	BENT_T1	0	6	6	0	0.1	0.1	-1.5	-0.91	2	1	-1	1500	900	-600
2/17/2025 8:08	43401	BENT_T1	0	9	9	0	0.9	0.9	0	0	0	0	0	0	0	0
2/17/2025 8:09	45501	DERR_T2	10	13	3	0.56	0.32	-0.24	0.47	0.44	2	2	0	1800	1800	0
2/17/2025 8:09	43401	BENT_T1	0	9	9	0	0.9	0.9	0	0	0	0	0	0	0	0
2/17/2025 8:09	43402	BENT_T1	0	6	6	0	0.1	0.1	-1.5	-0.91	2	1	-1	1500	900	-600
2/17/2025 8:09	45502	DERR_T2	16	14	-2	0.73	0.69	-0.04	0	0	0	0	0	0	0	0
2/17/2025 8:12	10401	LIGA_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 8:13	52402	GRPA_T2	26	18	-8	0.5	0.53	0.03	0	0	0	0	0	0	0	0
2/17/2025 8:13	52403	GRPA_T2	5	0	-5	0.76	0.8	0.04	0	0	0	0	0	0	0	0
2/17/2025 8:13	52404	GRPA_T2	0	0	0	0	0	0	-0.05	0.02	0	0	0	0	0	0
2/17/2025 8:14	53501	EVIL_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
2/17/2025 8:14	52102	MEIS_T1	5	15	10	1	0.3	-0.7	0	0	1	1	0	450	450	0
2/17/2025 8:14	53502	EVIL_T2	3	13	10	1.1	0.37	-0.73	0	0	0	0	0	0	0	0
2/17/2025 8:15	52403	GRPA_T2	4	5	1	0.63	0.88	0.25	-2.54	-2.6	0	0	0	0	0	0
2/17/2025 8:15	52402	GRPA_T2	15	30	15	0.43	0.56	0.13	0	0	0	0	0	0	0	0
2/17/2025 8:16	53502	EVIL_T2	13	7	-6	2.15	1.8	-0.35	0	0	0	0	0	0	0	0
2/17/2025 8:16	53501	EVIL_T2	1	1	0	0.2	0.2	0	-0.94	-1.1	2	2	0	1200	1200	0
2/17/2025 8:17	52403	GRPA_T2	4	5	1	0.63	0.88	0.25	0	0	0	0	0	0	0	0
2/17/2025 8:17	52402	GRPA_T2	15	30	15	0.43	0.56	0.13	0	0	0	0	0	0	0	0
2/17/2025 8:17	52404	GRPA_T2	0	0	0	0	0	0	-0.05	0.02	0	0	0	0	0	0
2/17/2025 8:22	55101	WERT_T1	0	0	0	0	0	0	-1.32	-1.32	2	2	0	1500	1500	0
2/17/2025 8:23	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 8:23	41902	REED_T1	1	3	2	0.3	0.2	-0.1	-0.49	-0.48	1	1	0	900	900	0
2/17/2025 8:23	45501	DERR_T2	10	13	3	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
2/17/2025 8:23	45502	DERR_T2	14	14	0	0.67	0.64	-0.03	-0.52	-0.51	0	0	0	0	0	0
2/17/2025 8:24	29402	BELT_T1	7	6	-1	1.27	1.25	-0.02	0	0	0	0	0	0	0	0
2/17/2025 8:24	55101	WERT_T1	0	0	0	0	0	0	-2.64	-2.63	4	4	0	3000	3000	0
2/17/2025 8:24	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/17/2025 8:25	55101	WERT_T1	0	0	0	0	0	0	-1.32	-1.32	2	2	0	1500	1500	0
2/17/2025 8:26	55101	WERT_T1	0	0	0	0	0	0	-1.32	-1.32	2	2	0	1500	1500	0
2/17/2025 8:29	40101	HUNT_T2	21	24	3	0.83	1.28	0.45	-1.53	-1.56	0	0	0	0	0	0
2/17/2025 8:30	60601	GRWO_T2	217	201	-16	1.37	1.05	-0.32	0.61	0.59	0	0	0	0	0	0
2/17/2025 8:31	46803	HEPB_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
2/17/2025 8:32	40101	HUNT_T2	22	23	1	1.05	1.19	0.14	-1.53	-1.56	0	0	0	0	0	0
2/17/2025 8:32	47401	PENS_T1	0	0	0	0	0	0	0.98	1.03	0	0	0	0	0	0
2/17/2025 8:32	47403	PENS_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
2/17/2025 8:33	47101	MARL_T1	136	127	-9	0.76	0.62	-0.14	0	0	1	1	0	600	600	0
2/17/2025 8:34	41901	REED_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 8:34	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 8:34	41902	REED_T1	2	2	0	0.15	0	-0.15	-0.49	-0.48	1	1	0	900	900	0
2/17/2025 8:35	20802	LOPO_T1	2	9	7	0.5	0.32	-0.18	-0.87	-0.83	1	1	0	600	600	0
2/17/2025 8:35	20801	LOPO_T1	24	39	15	0.83	0.94	0.11	0	0	0	0	0	0	0	0
2/17/2025 8:36	41902	REED_T1	2	2	0	0.15	0	-0.15	-0.48	-0.5	1	1	0	900	900	0
2/17/2025 8:36	47403	PENS_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
2/17/2025 8:36	47401	PENS_T1	0	0	0	0	0	0	1.03	0.98	0	0	0	0	0	0
2/17/2025 8:36	47101	MARL_T1	136	127	-9	0.76	0.62	-0.14	0	0	1	1	0	600	600	0
2/17/2025 8:36	41901	REED_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 8:37	47101	MARL_T1	136	127	-9	0.76	0.62	-0.14	0	0	1	1	0	600	600	0
2/17/2025 8:38	24201	PROV_T3	3	3	0	5.33	5.43	0.1	-1.41	-1.37	1	1	0	1200	1200	0
2/17/2025 8:38	24204	PROV_T3	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
2/17/2025 8:38	59101	WALK_T2	0	0	0	0	0	0	0.44	0.64	0	0	0	0	0	0
2/17/2025 8:39	24204	PROV_T3	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
2/17/2025 8:39	24201	PROV_T3	3	3	0	5.33	5.43	0.1	-1.41	-1.37	1	1	0	1200	1200	0
2/17/2025 8:40	29401	BELT_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 8:40	29402	BELT_T1	6	6	0	1.53	7.4	5.87	0	0	0	0	0	0	0	0
2/17/2025 8:41	17802	GILB_T1	0	1	1	0	1	1	0.18	0.18	0	0	0	0	0	0
2/17/2025 8:42	52402	GRPA_T2	9	29	20	0.52	0.29	-0.23	0	0	0	0	0	0	0	0
2/17/2025 8:42	52403	GRPA_T2	3	7	4	1.33	0.66	-0.67	0	0	0	0	0	0	0	0
2/17/2025 8:42	52401	GRPA_T2	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
2/17/2025 8:43	28403	HART_T2	1	0	-1	0.2	0	-0.2	-0.67	-0.64	1	1	0	900	900	0
2/17/2025 8:45	52402	GRPA_T2	26	57	31	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
2/17/2025 8:45	52403	GRPA_T2	5	11	6	0.96	0.9	-0.06	-1.37	-1.46	0	0	0	0	0	0
2/17/2025 8:45	20801	LOPO_T1	38	26	-12	0.81	0.72	-0.09	0	0	0	0	0	0	0	0
2/17/2025 8:45	20802	LOPO_T1	6	9	3	0.43	1.3	0.87	-0.83	-0.83	1	1	0	600	600	0
2/17/2025 8:46	11507	FREE_T2	171	142	-29	1.71	1.65	-0.06	1.7	1.66	0	0	0	0	0	0
2/17/2025 8:46	44502	HAMI_T2	1	1	0	2.5	2.8	0.3	0.06	0.06	0	0	0	0	0	0
2/17/2025 8:47	47802	MOCA_T2	1	1	0	1	0	-1	-0.66	-0.67	0	0	0	0	0	0
2/17/2025 8:48	47101	MARL_T1	122	101	-21	0.85	0.57	-0.28	0	0	1	1	0	600	600	0
2/17/2025 8:48	47802	MOCA_T2	1	1	0	1	0	-1	-0.66	-0.67	0	0	0	0	0	0
2/17/2025 8:49	47101	MARL_T1	122	101	-21	0.85	0.57	-0.28	0	0	1	1	0	600	600	0
2/17/2025 8:50	52502	PROG_T2	0	0	0	0	0	0	-0.59	-0.68	2	2	0	1800	1800	0
2/17/2025 8:51	55002	NEWP_T1	2	4	2	0.35	0.68	0.33	-0.15	-0.14	0	0	0	0	0	0
2/17/2025 8:52	17102	WTRE_T2	0	0	0	0	0	0	-0.58	-0.45	2	2	0	2400	2400	0
2/17/2025 8:52	17101	WTRE_T2	3	3	0	5.07	5.27	0.2	0	0	0	0	0	0	0	0
2/17/2025 8:53	49804	UNIV_T1	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
2/17/2025 8:53	49803	UNIV_T1	1	3	2	6.6	6.6	0	0	0	0	0	0	0	0	0
2/17/2025 8:55	46204	DANV_T2	122	106	-16	1.12	0.43	-0.69	0	0	0	0	0	0	0	0
2/17/2025 8:55	46206	DANV_T2	55	52	-3	0.54	0.55	0.01	3.82	3.81	4	4	0	4200	4200	0
2/17/2025 8:55	46203	DANV_T2	30	29	-1	0.58	0.63	0.05	-3.13	-3.02	0	0	0	0	0	0
2/17/2025 8:56	46204	DANV_T2	122	106	-16	1.12	0.43	-0.69	0	0	0	0	0	0	0	0
2/17/2025 8:56	11001	EGRE_T1	3	3	0	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
2/17/2025 8:56	46203	DANV_T2	30	29	-1	0.58	0.63	0.05	-1.56	-1.51	0	0	0	0	0	0
2/17/2025 8:56	46206	DANV_T2	55	52	-3	0.54	0.55	0.01	1.91	1.9	2	2	0	2100	2100	0
2/17/2025 8:58	53502	EVIL_T2	1	11	10	2.4	1.8	-0.6	0	0	0	0	0	0	0	0
2/17/2025 8:58	17101	WTRE_T2	3	3	0	5.07	5.27	0.2	0	0	0	0	0	0	0	0
2/17/2025 8:58	53501	EVIL_T2	1	1	0	0.2	0.1	-0.1	-1.1	-1.04	2	2	0	1200	1200	0
2/17/2025 8:58	17102	WTRE_T2	0	0	0	0	0	0	-0.58	-0.45	2	2	0	2400	2400	0
2/17/2025 8:59	61001	DONV_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
2/17/2025 9:00	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 9:00	41901	REED_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/17/2025 9:00	40503	CRES_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/17/2025 9:00	41902	REED_T1	0	0	0	0	0	0	-0.5	-0.5	1	1	0	900	900	0
2/17/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/17/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
2/17/2025 9:01	63501	HEID_TBK1-2	0	0	0	0	0	0	0.17	0.22	1	1	0	900	900	0
2/17/2025 9:02	40101	HUNT_T2	22	27	5	1.04	1.12	0.08	-1.53	-1.55	0	0	0	0	0	0
2/17/2025 9:02	23301	JEFF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 9:03	40101	HUNT_T2	22	27	5	1.04	1.12	0.08	-1.53	-1.55	0	0	0	0	0	0
2/17/2025 9:04	55001	NEWP_T1	0	0	0	0	0	0	-0.86	-0.82	1	1	0	600	600	0
2/17/2025 9:04	55002	NEWP_T1	4	4	0	0.6	0.63	0.03	0	0	0	0	0	0	0	0
2/17/2025 9:06	55002	NEWP_T1	4	4	0	0.6	0.63	0.03	0	0	0	0	0	0	0	0
2/17/2025 9:06	55001	NEWP_T1	0	0	0	0	0	0	-0.86	-0.82	1	1	0	600	600	0
2/17/2025 9:07	52403	GRPA_T2	5	22	17	0.9	0.63	-0.27	-0.85	-0.87	0	0	0	0	0	0
2/17/2025 9:07	66703	STRA_T1	0	0	0	0	0	0	-2.3	-1.23	0	0	0	0	0	0
2/17/2025 9:07	52402	GRPA_T2	21	87	66	0.32	0.65	0.33	0	0	0	0	0	0	0	0
2/17/2025 9:07	44901	SCOT_T2	0	0	0	0	0	0	-0.05	-0.02	0	0	0	0	0	0
2/17/2025 9:08	49803	UNIV_T1	2	2	0	3.4	6.1	2.7	0	0	0	0	0	0	0	0
2/17/2025 9:08	49804	UNIV_T1	0	0	0	0	0	0	0.67	0.65	0	0	0	0	0	0
2/17/2025 9:10	46204	DANV_T2	106	87	-19	0.59	0.35	-0.24	0	0	0	0	0	0	0	0
2/17/2025 9:10	44301	BEAV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 9:10	46203	DANV_T2	29	24	-5	0.61	0.69	0.08	-3.02	-2.86	0	0	0	0	0	0
2/17/2025 9:10	10401	LIGA_T1	27	50	23	0.2	0.26	0.06	0	0	0	0	0	0	0	0
2/17/2025 9:10	61001	DONV_T1	0	1	1	0	0.5	0.5	0.11	0.09	0	0	0	0	0	0
2/17/2025 9:10	46206	DANV_T2	41	51	10	0.49	0.61	0.12	0	0	0	0	0	0	0	0
2/17/2025 9:10	44905	SCOT_T1	16	9	-7	0.45	0.45	0	0	0	0	0	0	0	0	0
2/17/2025 9:11	46206	DANV_T2	41	51	10	0.49	0.61	0.12	3.81	3.85	4	4	0	4200	4200	0
2/17/2025 9:11	44301	BEAV_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 9:11	46203	DANV_T2	29	24	-5	0.61	0.69	0.08	0	0	0	0	0	0	0	0
2/17/2025 9:11	46204	DANV_T2	106	87	-19	0.59	0.35	-0.24	0	0	0	0	0	0	0	0
2/17/2025 9:12	53501	EVIL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/17/2025 9:12	11001	EGRE_T1	3	1	-2	0.57	0	-0.57	0	0	0	0	0	0	0	0
2/17/2025 9:12	53502	EVIL_T2	11	11	0	0.64	2.1	1.46	0	0	0	0	0	0	0	0
2/17/2025 9:13	46801	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 9:13	46803	HEPB_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
2/17/2025 9:13	44502	HAMI_T2	1	2	1	2.4	2.8	0.4	0	0	0	0	0	0	0	0
2/17/2025 9:13	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 9:14	46602	LACR_T1	1	1	0	0.5	0	-0.5	-0.97	-1.08	0	0	0	0	0	0
2/17/2025 9:16	44505	HAMI_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
2/17/2025 9:16	44502	HAMI_T2	1	2	1	2.8	2.8	0	0	0	0	0	0	0	0	0
2/17/2025 9:17	44505	HAMI_T2	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
2/17/2025 9:17	47101	MARL_T1	89	187	98	0.65	0.87	0.22	0	0	1	1	0	600	600	0
2/17/2025 9:17	44502	HAMI_T2	1	2	1	2.8	2.8	0	0	0	0	0	0	0	0	0
2/17/2025 9:17	67603	WARW_T1	0	0	0	0	0	0	-0.95	-0.87	0	0	0	0	0	0
2/17/2025 9:18	47101	MARL_T1	89	187	98	0.65	0.87	0.22	0	0	2	2	0	1200	1200	0
2/17/2025 9:18	55002	NEWP_T1	3	4	1	0.77	0.53	-0.24	-0.15	-0.13	0	0	0	0	0	0
2/17/2025 9:18	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/17/2025 9:19	47101	MARL_T1	89	187	98	0.65	0.87	0.22	0	0	1	1	0	600	600	0
2/17/2025 9:19	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 9:20	47101	MARL_T1	89	187	98	0.65	0.87	0.22	0	0	1	1	0	600	600	0
2/17/2025 9:21	24201	PROV_T3	3	3	0	5.67	5.63	-0.04	-1.4	-1.38	1	1	0	1200	1200	0
2/17/2025 9:21	47101	MARL_T1	89	187	98	0.65	0.87	0.22	0	0	1	1	0	600	600	0
2/17/2025 9:21	24204	PROV_T3	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
2/17/2025 9:21	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 9:21	67605	WARW_T1	0	0	0	0	0	0	-0.81	-0.79	0	0	0	0	0	0
2/17/2025 9:22	16102	BING_T2	2	4	2	3.4	6.4	3	0	0	0	0	0	0	0	0
2/17/2025 9:22	45502	DERR_T2	10	7	-3	0.66	0.38	-0.28	0	0	0	0	0	0	0	0
2/17/2025 9:22	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 9:22	16103	BING_T2	0	0	0	0	0	0	-2.12	-2.12	2	2	0	1500	1500	0
2/17/2025 9:22	55101	WERT_T1	8	8	0	0.56	0.59	0.03	-2.7	-2.79	4	4	0	3000	3000	0
2/17/2025 9:22	45501	DERR_T2	7	12	5	0.4	0.51	0.11	0.87	0.93	4	4	0	3600	3600	0
2/17/2025 9:22	42701	AUGU_T1	4	9	5	0.35	0.33	-0.02	0	0	2	2	0	1800	1800	0
2/17/2025 9:23	55101	WERT_T1	8	8	0	0.56	0.59	0.03	0	0	0	0	0	0	0	0
2/17/2025 9:23	49803	UNIV_T1	2	2	0	3.5	6.1	2.6	-0.87	-0.83	0	0	0	0	0	0
2/17/2025 9:23	42701	AUGU_T1	4	9	5	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
2/17/2025 9:25	53902	HALI_T2	1	1	0	4.7	4.8	0.1	0	0	0	0	0	0	0	0
2/17/2025 9:25	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 9:25	53903	HALI_T2	2	2	0	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
2/17/2025 9:25	60201	ATGL_T2	0	0	0	0	0	0	0.21	0.27	0	0	0	0	0	0
2/17/2025 9:25	42701	AUGU_T1	4	9	5	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
2/17/2025 9:25	53901	HALI_T2	26	35	9	0.44	0.36	-0.08	-0.8	-0.81	0	0	0	0	0	0
2/17/2025 9:25	59101	WALK_T2	0	0	0	0	0	0	0.53	0	0	0	0	0	0	0
2/17/2025 9:26	58202	NEWV_T1	1	3	2	0.3	0.2	-0.1	-1.85	-1.96	0	0	0	0	0	0
2/17/2025 9:26	58402	MORO_T1	272	61	-211	1.1	0.3	-0.8	0	0	2	2	0	750	750	0
2/17/2025 9:26	58201	NEWV_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
2/17/2025 9:28	58402	MORO_T1	272	61	-211	1.1	0.3	-0.8	0	0	2	2	0	750	750	0
2/17/2025 9:29	58201	NEWV_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
2/17/2025 9:29	58202	NEWV_T1	1	3	2	0.3	0.2	-0.1	-0.92	-0.98	0	0	0	0	0	0
2/17/2025 9:31	67602	WARW_T2	2	1	-1	3.05	2.6	-0.45	0.98	0.87	2	2	0	600	600	0
2/17/2025 9:33	53902	HALI_T2	1	1	0	4.8	4.9	0.1	0	0	0	0	0	0	0	0
2/17/2025 9:33	52102	MEIS_T1	12	23	11	0.52	0.66	0.14	0	0	1	1	0	450	450	0
2/17/2025 9:33	53903	HALI_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
2/17/2025 9:33	53901	HALI_T2	11	40	29	0.42	0.45	0.03	-0.8	-0.81	0	0	0	0	0	0
2/17/2025 9:33	47802	MOCA_T2	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
2/17/2025 9:35	67602	WARW_T2	2	1	-1	3.05	2.6	-0.45	0.49	0.43	1	1	0	300	300	0
2/17/2025 9:36	43202	MVIL_T2	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/17/2025 9:36	43201	MVIL_T2	0	0	0	0	0	0	-1.21	-1.06	0	0	0	0	0	0
2/17/2025 9:36	52102	MEIS_T1	12	23	11	0.52	0.66	0.14	0	0	1	1	0	450	450	0
2/17/2025 9:38	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 9:38	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 9:38	55101	WERT_T1	8	8	0	0.64	0.4	-0.24	-1.4	-1.35	2	2	0	1500	1500	0
2/17/2025 9:38	63804	HEMP_T1	1	1	0	6.8	6.8	0	0	0	0	0	0	0	0	0
2/17/2025 9:38	63802	HEMP_T1	0	0	0	0	0	0	0.26	0.33	0	0	0	0	0	0
2/17/2025 9:39	55105	WERT_T1	0	0	0	0	0	0	-0.46	-0.45	1	1	0	900	900	0
2/17/2025 9:39	55101	WERT_T1	8	8	0	0.64	0.4	-0.24	0	0	0	0	0	0	0	0
2/17/2025 9:40	44301	BEAV_T2	2	3	1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
2/17/2025 9:40	55101	WERT_T1	8	8	0	0.64	0.4	-0.24	-4.19	-4.04	6	6	0	4500	4500	0
2/17/2025 9:41	55101	WERT_T1	8	8	0	0.64	0.4	-0.24	-1.4	-1.35	2	2	0	1500	1500	0
2/17/2025 9:42	60801	BUCK_T1	0	0	0	0	0	0	-0.57	-0.45	1	1	0	600	600	0
2/17/2025 9:42	61001	DONV_T1	1	1	0	0.5	0.3	-0.2	0.06	0.12	0	0	0	0	0	0
2/17/2025 9:42	41602	CLEV_T1	1	6	5	0.7	1	0.3	0	0	1	1	0	600	600	0
2/17/2025 9:43	53502	EVIL_T2	11	12	1	0.65	0.49	-0.16	0	0	0	0	0	0	0	0
2/17/2025 9:43	53501	EVIL_T2	1	0	-1	0.3	0	-0.3	-1.1	-1.04	2	2	0	1200	1200	0
2/17/2025 9:44	52402	GRPA_T2	86	99	13	1	0.85	-0.15	0	0	0	0	0	0	0	0
2/17/2025 9:44	52404	GRPA_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
2/17/2025 9:44	22602	KIMB_T1	0	8	8	0	0.1	0.1	0.15	-0.12	0	0	0	0	0	0
2/17/2025 9:44	52403	GRPA_T2	19	31	12	0.64	0.62	-0.02	-0.83	-0.91	0	0	0	0	0	0
2/17/2025 9:46	52404	GRPA_T2	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
2/17/2025 9:46	52402	GRPA_T2	97	112	15	0.91	0.89	-0.02	0	0	0	0	0	0	0	0
2/17/2025 9:46	52403	GRPA_T2	26	69	43	0.67	0.67	0	0	0	0	0	0	0	0	0
2/17/2025 9:46	52401	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 9:48	47101	MARL_T1	187	185	-2	1.03	0.8	-0.23	0	0	1	1	0	600	600	0
2/17/2025 9:48	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 9:48	41902	REED_T1	0	0	0	0	0	0	-0.55	-0.59	1	1	0	900	900	0
2/17/2025 9:48	64101	REFR_T1	0	1	1	0	0.3	0.3	0.3	0.27	0	0	0	0	0	0
2/17/2025 9:48	41903	REED_T1	4	2	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/17/2025 9:48	20801	LOPO_T1	11	18	7	0.68	0.89	0.21	0	0	0	0	0	0	0	0
2/17/2025 9:48	20802	LOPO_T1	1	2	1	1.4	0.5	-0.9	-0.86	-0.85	1	1	0	600	600	0
2/17/2025 9:49	41903	REED_T1	4	2	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/17/2025 9:49	64101	REFR_T1	0	1	1	0	0.3	0.3	0.3	0.27	0	0	0	0	0	0
2/17/2025 9:49	47103	MARL_T2	21	28	7	0.3	0.12	-0.18	-2.17	-2.12	0	0	0	0	0	0
2/17/2025 9:49	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 9:49	22602	KIMB_T1	0	8	8	0	0.14	0.14	0.15	-0.12	0	0	0	0	0	0
2/17/2025 9:49	41902	REED_T1	0	0	0	0	0	0	-0.55	-0.59	1	1	0	900	900	0
2/17/2025 9:50	44902	SCOT_T2	0	0	0	0	0	0	-0.85	-0.87	0	0	0	0	0	0
2/17/2025 9:50	64101	REFR_T1	0	1	1	0	0.3	0.3	0.3	0.27	0	0	0	0	0	0
2/17/2025 9:50	47103	MARL_T2	21	28	7	0.3	0.12	-0.18	-2.17	-2.12	0	0	0	0	0	0
2/17/2025 9:51	41903	REED_T1	4	2	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/17/2025 9:51	41902	REED_T1	0	0	0	0	0	0	-0.59	-0.6	1	1	0	900	900	0
2/17/2025 9:51	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 9:52	64101	REFR_T1	0	1	1	0	0.3	0.3	0.82	0.84	0	0	0	0	0	0
2/17/2025 9:53	64101	REFR_T1	0	1	1	0	0.3	0.3	0.27	0.28	0	0	0	0	0	0
2/17/2025 9:54	46204	DANV_T2	77	102	25	0.38	0.52	0.14	0	0	0	0	0	0	0	0
2/17/2025 9:54	46203	DANV_T2	28	34	6	0.7	0.68	-0.02	0	0	0	0	0	0	0	0
2/17/2025 9:54	46206	DANV_T2	31	33	2	0.64	0.47	-0.17	1.94	1.95	2	2	0	2100	2100	0
2/17/2025 9:54	17002	RIRO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 9:54	45402	WBLO_T2	1	0	-1	1.2	0	-1.2	-1.3	-1.32	1	1	0	900	900	0
2/17/2025 9:54	60801	BUCK_T1	0	0	0	0	0	0	-0.45	-0.39	1	1	0	600	600	0
2/17/2025 9:55	46206	DANV_T2	31	33	2	0.64	0.47	-0.17	0	0	0	0	0	0	0	0
2/17/2025 9:55	46203	DANV_T2	28	34	6	0.7	0.68	-0.02	-1.5	-1.45	0	0	0	0	0	0
2/17/2025 9:55	46204	DANV_T2	77	102	25	0.38	0.52	0.14	0	0	0	0	0	0	0	0
2/17/2025 9:55	64101	REFR_T1	0	1	1	0	0.3	0.3	0.27	0.28	0	0	0	0	0	0
2/17/2025 9:56	60801	BUCK_T1	0	0	0	0	0	0	-0.45	-0.39	1	1	0	600	600	0
2/17/2025 9:56	46203	DANV_T2	28	34	6	0.7	0.68	-0.02	-1.5	-1.45	0	0	0	0	0	0
2/17/2025 9:56	46204	DANV_T2	77	102	25	0.38	0.52	0.14	0	0	0	0	0	0	0	0
2/17/2025 9:56	46206	DANV_T2	31	33	2	0.64	0.47	-0.17	0	0	0	0	0	0	0	0
2/17/2025 9:58	24901	WHHA_T1	4	6	2	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
2/17/2025 9:58	53601	DALM_T2	1	1	0	0.3	0.3	0	-0.53	-0.47	1	1	0	900	900	0
2/17/2025 9:58	24902	WHHA_T1	1	12	11	0.6	0.64	0.04	0.17	0.22	0	0	0	0	0	0
2/17/2025 9:59	24902	WHHA_T1	1	12	11	0.6	0.64	0.04	0.17	0.22	0	0	0	0	0	0
2/17/2025 9:59	24901	WHHA_T1	4	6	2	0.9	0.3	-0.6	0	0	0	0	0	0	0	0
2/17/2025 10:00	44502	HAMI_T2	1	1	0	2.5	2.4	-0.1	0.06	0.06	0	0	0	0	0	0
2/17/2025 10:02	45802	HEGI_T2	35	35	0	0.6	0.64	0.04	0	0	0	0	0	0	0	0
2/17/2025 10:04	47403	PENS_T1	1	1	0	2	1.9	-0.1	0	0	0	0	0	0	0	0
2/17/2025 10:05	55001	NEWP_T1	0	0	0	0	0	0	-1.64	-1.56	2	2	0	1200	1200	0
2/17/2025 10:05	55002	NEWP_T1	3	2	-1	0.83	1.55	0.72	0	0	0	0	0	0	0	0
2/17/2025 10:06	55001	NEWP_T1	0	0	0	0	0	0	-0.82	-0.78	1	1	0	600	600	0
2/17/2025 10:06	55002	NEWP_T1	3	2	-1	0.83	1.55	0.72	0	0	0	0	0	0	0	0
2/17/2025 10:06	16103	BING_T2	0	0	0	0	0	0	-2.08	-2.12	2	2	0	1500	1500	0
2/17/2025 10:06	16102	BING_T2	2	1	-1	3.15	6.1	2.95	0	0	0	0	0	0	0	0
2/17/2025 10:07	66505	SMAN_T2	0	0	0	0	0	0	0	-0.09	1	1	0	900	900	0
2/17/2025 10:08	61505	EPET_T1	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
2/17/2025 10:08	16302	ALPA_T2	0	1	1	0	0.5	0.5	-1.8	-1.9	0	0	0	0	0	0
2/17/2025 10:08	12001	HATF_T1	2	2	0	3	2.35	-0.65	0	0	0	0	0	0	0	0
2/17/2025 10:08	12006	HATF_T1	2	3	1	0.6	0.95	0.35	0.75	0.78	1	1	0	1200	1200	0
2/17/2025 10:09	29401	BELT_T1	5	1	-4	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
2/17/2025 10:09	29402	BELT_T1	5	5	0	1.4	6.7	5.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/17/2025 10:10	16302	ALPA_T2	0	1	1	0	0.5	0.5	-0.6	-0.63	0	0	0	0	0	0
2/17/2025 10:10	53903	HALI_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
2/17/2025 10:10	29401	BELT_T1	5	1	-4	0.14	0.1	-0.04	0	0	1	1	0	900	900	0
2/17/2025 10:10	29402	BELT_T1	5	5	0	1.4	6.7	5.3	0	0	0	0	0	0	0	0
2/17/2025 10:10	53902	HALI_T2	1	1	0	4.9	4.5	-0.4	-1.6	-1.57	0	0	0	0	0	0
2/17/2025 10:10	53901	HALI_T2	31	24	-7	0.65	0.68	0.03	0	0	0	0	0	0	0	0
2/17/2025 10:11	53902	HALI_T2	1	1	0	4.9	4.5	-0.4	-0.8	-0.79	0	0	0	0	0	0
2/17/2025 10:11	53903	HALI_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
2/17/2025 10:11	53901	HALI_T2	31	24	-7	0.65	0.68	0.03	0	0	0	0	0	0	0	0
2/17/2025 10:12	53902	HALI_T2	1	1	0	4.9	4.5	-0.4	-0.8	-0.79	0	0	0	0	0	0
2/17/2025 10:12	53502	EVIL_T2	11	10	-1	0.8	3.3	2.5	0	0	0	0	0	0	0	0
2/17/2025 10:12	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	1	1	0	900	900
2/17/2025 10:12	53501	EVIL_T2	0	1	1	0	0.4	0.4	-1.09	-1.19	2	2	0	1200	1200	0
2/17/2025 10:12	53901	HALI_T2	31	24	-7	0.65	0.68	0.03	0	0	0	0	0	0	0	0
2/17/2025 10:12	53903	HALI_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
2/17/2025 10:13	53901	HALI_T2	31	24	-7	0.65	0.68	0.03	0	0	0	0	0	0	0	0
2/17/2025 10:13	53903	HALI_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
2/17/2025 10:13	53902	HALI_T2	1	1	0	4.9	4.5	-0.4	-0.8	-0.79	0	0	0	0	0	0
2/17/2025 10:13	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 10:13	45501	DERR_T2	3	52	49	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
2/17/2025 10:13	45502	DERR_T2	5	7	2	0.66	0.33	-0.33	-0.5	-0.52	0	0	0	0	0	0
2/17/2025 10:15	22803	HAUT_T2	10	29	19	0.7	0.82	0.12	0	0	0	0	0	0	0	0
2/17/2025 10:15	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	1	1	0	900	900
2/17/2025 10:15	22805	HAUT_T2	14	15	1	2.37	1.68	-0.69	0	0	0	0	0	0	0	0
2/17/2025 10:16	11507	FREE_T2	148	146	-2	1.83	1.61	-0.22	1.8	1.62	0	0	0	0	0	0
2/17/2025 10:18	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 10:18	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 10:18	43202	MVIL_T2	1	0	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/17/2025 10:18	43201	MVIL_T2	1	0	-1	0.2	0	-0.2	-1.07	-1.09	0	0	0	0	0	0
2/17/2025 10:20	40501	CRES_T2	28	50	22	0.45	0.44	-0.01	0	0	0	0	0	0	0	0
2/17/2025 10:21	65601	QVIL_T2	0	0	0	0	0	0	-0.87	-0.9	1	1	0	900	900	0
2/17/2025 10:21	40501	CRES_T2	28	50	22	0.45	0.44	-0.01	0	0	0	0	0	0	0	0
2/17/2025 10:22	40501	CRES_T2	28	50	22	0.45	0.44	-0.01	0	0	0	0	0	0	0	0
2/17/2025 10:24	13302	ORVI_T2	112	37	-75	0.27	0.21	-0.06	0.71	0.8	0	0	0	0	0	0
2/17/2025 10:25	40501	CRES_T2	28	50	22	0.45	0.44	-0.01	0	0	0	0	0	0	0	0
2/17/2025 10:25	46206	DANV_T2	19	34	15	0.46	0.58	0.12	0	0	0	0	0	0	0	0
2/17/2025 10:25	46204	DANV_T2	99	107	8	0.56	0.55	-0.01	0	0	0	0	0	0	0	0
2/17/2025 10:25	46203	DANV_T2	26	29	3	0.69	0.61	-0.08	-3.05	-3.07	0	0	0	0	0	0
2/17/2025 10:26	46206	DANV_T2	19	34	15	0.46	0.58	0.12	3.93	4	4	4	0	4200	4200	0
2/17/2025 10:26	46204	DANV_T2	99	107	8	0.56	0.55	-0.01	0	0	0	0	0	0	0	0
2/17/2025 10:26	46203	DANV_T2	26	29	3	0.69	0.61	-0.08	0	0	0	0	0	0	0	0
2/17/2025 10:27	23401	HONE_T2	46	75	29	0.53	0.42	-0.11	0.16	0.22	0	0	0	0	0	0
2/17/2025 10:28	46206	DANV_T2	19	34	15	0.46	0.58	0.12	1.96	2	2	2	0	2100	2100	0
2/17/2025 10:28	46204	DANV_T2	99	107	8	0.56	0.55	-0.01	0	0	0	0	0	0	0	0
2/17/2025 10:28	46203	DANV_T2	26	29	3	0.69	0.61	-0.08	0	0	0	0	0	0	0	0
2/17/2025 10:29	46206	DANV_T2	19	34	15	0.46	0.58	0.12	0	0	0	0	0	0	0	0
2/17/2025 10:29	46204	DANV_T2	99	107	8	0.56	0.55	-0.01	0	0	0	0	0	0	0	0
2/17/2025 10:29	23401	HONE_T2	46	75	29	0.53	0.42	-0.11	0.16	0.22	0	0	0	0	0	0
2/17/2025 10:29	46203	DANV_T2	26	29	3	0.69	0.61	-0.08	-3.05	-3.07	0	0	0	0	0	0
2/17/2025 10:30	46203	DANV_T2	29	31	2	0.58	0.74	0.16	-1.52	-1.53	0	0	0	0	0	0
2/17/2025 10:30	46206	DANV_T2	34	30	-4	0.49	0.49	0	0	0	0	0	0	0	0	0
2/17/2025 10:30	47901	HRDG_T1	0	0	0	0	0	0	1.99	1.72	0	0	0	0	0	0
2/17/2025 10:30	11804	FRAN_T1	0	0	0	0	0	0	1.11	1.04	0	0	0	0	0	0
2/17/2025 10:30	46204	DANV_T2	99	107	8	0.59	0.43	-0.16	0	0	0	0	0	0	0	0
2/17/2025 10:31	52402	GRPA_T2	119	61	-58	0.99	0.75	-0.24	0	0	0	0	0	0	0	0
2/17/2025 10:31	52401	GRPA_T2	3	0	-3	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/17/2025 10:31	44502	HAMI_T2	1	1	0	2.4	2.4	0	0.06	0.06	0	0	0	0	0	0
2/17/2025 10:31	52403	GRPA_T2	37	9	-28	0.64	0.94	0.3	0	0	0	0	0	0	0	0
2/17/2025 10:32	11101	EGYP_T1	0	1	1	0	0.3	0.3	-0.59	-0.61	1	1	0	1200	1200	0
2/17/2025 10:32	11102	EGYP_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/17/2025 10:33	44802	EDAN_T2	0	0	0	0	0	0	-3.34	-3.37	1	1	0	1200	1200	0
2/17/2025 10:34	11101	EGYP_T1	0	1	1	0	0.3	0.3	-0.59	-0.61	1	1	0	1200	1200	0
2/17/2025 10:34	41901	REED_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/17/2025 10:34	44802	EDAN_T2	0	0	0	0	0	0	-3.34	-3.37	1	1	0	1200	1200	0
2/17/2025 10:34	41902	REED_T1	0	0	0	0	0	0	-0.69	-0.66	1	1	0	900	900	0
2/17/2025 10:34	11102	EGYP_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/17/2025 10:34	41903	REED_T1	4	3	-1	0.53	0	-0.53	0	0	0	0	0	0	0	0
2/17/2025 10:35	44802	EDAN_T2	0	0	0	0	0	0	-3.34	-3.37	1	1	0	1200	1200	0
2/17/2025 10:35	42001	MNVL_T2	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
2/17/2025 10:36	40602	PIGR_T1	0	0	0	0	0	0	-1.55	-1.59	1	1	0	600	600	0
2/17/2025 10:36	40601	PIGR_T1	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/17/2025 10:36	44802	EDAN_T2	0	0	0	0	0	0	-6.73	-6.77	2	2	0	2400	2400	0
2/17/2025 10:37	44802	EDAN_T2	0	0	0	0	0	0	-3.37	-3.39	1	1	0	1200	1200	0
2/17/2025 10:40	64101	REFR_T1	1	1	0	0.4	0.7	0.3	0.28	0.28	0	0	0	0	0	0
2/17/2025 10:42	11102	EGYP_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/17/2025 10:42	60803	BUCK_T1	3	3	0	0.1	0.17	0.07	0	0	0	0	0	0	0	0
2/17/2025 10:42	11101	EGYP_T1	0	1	1	0	0.3	0.3	-0.61	-0.66	1	1	0	1200	1200	0
2/17/2025 10:42	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 10:42	45802	HEGI_T2	14	11	-3	0.44	0.21	-0.23	0.41	0.36	0	0	0	0	0	0
2/17/2025 10:43	53501	EVIL_T2	1	2	1	0.4	0.4	0	-1.2	-1	2	2	0	1200	1200	0
2/17/2025 10:43	47203	FAXO_T2	0	0	0	0	0	0	-2.38	-2.38	1	1	0	1200	1200	0
2/17/2025 10:43	53502	EVIL_T2	1	1	0	3.6	2.5	-1.1	0	0	0	0	0	0	0	0
2/17/2025 10:44	53501	EVIL_T2	1	2	1	0.4	0.4	0	-1.2	-1	2	2	0	1200	1200	0
2/17/2025 10:44	53502	EVIL_T2	1	1	0	3.6	2.5	-1.1	0	0	0	0	0	0	0	0
2/17/2025 10:45	53501	EVIL_T2	2	2	0	0.4	0.4	0	-1.2	-1	2	2	0	1200	1200	0
2/17/2025 10:45	53502	EVIL_T2	1	1	0	2.5	2.9	0.4	0	0	0	0	0	0	0	0
2/17/2025 10:46	64204	KINZ_T1	3	3	0	0.77	0.35	-0.42	0	0	0	0	0	0	0	0
2/17/2025 10:46	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 10:46	46803	HEPB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 10:46	64203	KINZ_T1	0	2	2	0	0	0	-1.56	-1.51	3	3	0	2100	2100	0
2/17/2025 10:46	53502	EVIL_T2	1	1	0	2.5	2.9	0.4	0	0	0	0	0	0	0	0
2/17/2025 10:46	53501	EVIL_T2	2	2	0	0.4	0.4	0	-1.2	-1	2	2	0	1200	1200	0
2/17/2025 10:47	59302	MCAL_T1	0	0	0	0	0	0	-0.65	-0.65	1	1	0	600	600	0
2/17/2025 10:47	52402	GRPA_T2	58	57	-1	0.89	0.68	-0.21	0	0	0	0	0	0	0	0
2/17/2025 10:47	52403	GRPA_T2	8	10	2	0.8	0.78	-0.02	-0.94	-0.93	0	0	0	0	0	0
2/17/2025 10:47	45802	HEGI_T2	3	13	10	0.37	0.35	-0.02	0.41	0.36	0	0	0	0	0	0
2/17/2025 10:48	58102	NEKI_T1	1	1	0	0.5	0.5	0	-0.91	-0.96	1	1	0	1200	1200	0
2/17/2025 10:48	58101	NEKI_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/17/2025 10:49	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 10:49	67605	WARW_T1	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
2/17/2025 10:50	41902	REED_T1	0	0	0	0	0	0	-0.66	-0.61	1	1	0	900	900	0
2/17/2025 10:50	46301	ROHR_T1	12	5	-7	0.83	1.6	0.77	0	0	0	0	0	0	0	0
2/17/2025 10:50	46302	ROHR_T1	5	11	6	0.48	0.41	-0.07	0.29	0.28	0	0	0	0	0	0
2/17/2025 10:50	52101	MEIS_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/17/2025 10:50	41903	REED_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
2/17/2025 10:50	64101	REFR_T1	1	2	1	0.6	0.4	-0.2	0.28	0.28	0	0	0	0	0	0
2/17/2025 10:50	65501	MOJO_T1	0	0	0	0	0	0	-0.91	-0.96	1	1	0	900	900	0
2/17/2025 10:50	52102	MEIS_T1	6	0	-6	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/17/2025 10:52	40601	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/17/2025 10:52	40602	PIGR_T1	0	0	0	0	0	0	-1.59	-1.63	1	1	0	600	600	0
2/17/2025 10:54	67402	WAKE_T2	0	0	0	0	0	0	0.58	0.58	1	1	0	600	600	0
2/17/2025 10:54	64101	REFR_T1	1	2	1	0.6	0.4	-0.2	0.28	0.28	0	0	0	0	0	0
2/17/2025 10:54	60201	ATGL_T2	0	0	0	0	0	0	0.38	0.32	0	0	0	0	0	0
2/17/2025 10:55	40501	CRES_T2	42	35	-7	0.42	0.42	0	0	0	0	0	0	0	0	0
2/17/2025 10:55	53902	HALI_T2	1	1	0	4.3	4.5	0.2	0	0	0	0	0	0	0	0
2/17/2025 10:55	53901	HALI_T2	15	3	-12	0.43	0	-0.43	-0.82	-0.79	0	0	0	0	0	0
2/17/2025 10:56	10801	CHIH_T1	2	5	3	0.1	1.75	1.65	-1.84	-1.83	3	3	0	2100	2100	0
2/17/2025 10:57	29401	BELT_T1	0	8	8	0	0	0	0	0	1	1	0	900	900	0
2/17/2025 10:57	29402	BELT_T1	5	5	0	1.62	3.25	1.63	0	0	0	0	0	0	0	0
2/17/2025 10:58	53502	EVIL_T2	1	1	0	2.5	2.9	0.4	0	0	0	0	0	0	0	0
2/17/2025 10:58	53501	EVIL_T2	2	2	0	0.4	0.4	0	-1	-1.12	2	2	0	1200	1200	0
2/17/2025 10:58	53902	HALI_T2	1	1	0	4.3	4.5	0.2	0	0	0	0	0	0	0	0
2/17/2025 10:58	53901	HALI_T2	15	3	-12	0.43	0	-0.43	-0.82	-0.79	0	0	0	0	0	0
2/17/2025 11:00	64904	MILL_T1	0	0	0	0	0	0	-0.57	-0.7	0	0	0	0	0	0
2/17/2025 11:01	53501	EVIL_T2	2	2	0	0.15	0.4	0.25	-1	-1.12	2	2	0	1200	1200	0
2/17/2025 11:01	53502	EVIL_T2	1	8	7	2.9	3.4	0.5	0	0	0	0	0	0	0	0
2/17/2025 11:02	20603	GRWO_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:02	20602	GRWO_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:02	20601	GRWO_T2	98	55	-43	0.73	0.52	-0.21	0.69	0.62	0	0	0	0	0	0
2/17/2025 11:03	20603	GRWO_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:03	20602	GRWO_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:03	64201	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:03	20601	GRWO_T2	98	55	-43	0.73	0.52	-0.21	0	0	0	0	0	0	0	0
2/17/2025 11:03	64204	KINZ_T1	2	1	-1	0.35	0.7	0.35	0	0	0	0	0	0	0	0
2/17/2025 11:03	64203	KINZ_T1	0	2	2	0	0	0	-1.51	-1.47	3	3	0	2100	2100	0
2/17/2025 11:04	64903	MILL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/17/2025 11:04	64904	MILL_T1	0	0	0	0	0	0	-0.29	-0.35	0	0	0	0	0	0
2/17/2025 11:04	64902	MILL_T2	0	0	0	0	0	0	-1.31	-1.32	1	1	0	900	900	0
2/17/2025 11:05	45501	DERR_T2	1	5	4	0.4	0	-0.4	0.38	0.32	2	2	0	1800	1800	0
2/17/2025 11:05	45502	DERR_T2	4	4	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
2/17/2025 11:06	66203	SISP_T2	1	1	0	0.3	0.3	0	-1.11	-0.45	2	2	0	1800	1800	0
2/17/2025 11:06	20603	GRWO_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:06	20602	GRWO_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:06	20601	GRWO_T2	98	55	-43	0.73	0.52	-0.21	0.62	0.75	0	0	0	0	0	0
2/17/2025 11:07	66203	SISP_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/17/2025 11:08	46302	ROHR_T1	10	8	-2	0.42	0.28	-0.14	0	0	0	0	0	0	0	0
2/17/2025 11:08	67201	TEHI_T1	0	0	0	0	0	0	0.33	0.22	1	1	0	900	900	0
2/17/2025 11:08	67203	TEHI_T1	7	6	-1	0.56	0.87	0.31	0	0	0	0	0	0	0	0
2/17/2025 11:08	46301	ROHR_T1	5	4	-1	1.1	2.5	1.4	0.28	0.29	0	0	0	0	0	0
2/17/2025 11:09	44302	BEAV_T2	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
2/17/2025 11:09	28805	LAKE_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
2/17/2025 11:09	28801	LAKE_T1	628	641	13	0.7	0.76	0.06	0	0	0	0	0	0	0	0
2/17/2025 11:09	44301	BEAV_T2	1	4	3	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
2/17/2025 11:10	28801	LAKE_T1	628	641	13	0.7	0.76	0.06	0	0	0	0	0	0	0	0
2/17/2025 11:10	28805	LAKE_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
2/17/2025 11:10	10801	CHIH_T1	5	3	-2	0.82	0.77	-0.05	-1.83	-1.86	3	3	0	2100	2100	0
2/17/2025 11:11	17802	GILB_T1	2	1	-1	0.15	0.2	0.05	0.14	0.17	0	0	0	0	0	0
2/17/2025 11:12	10801	CHIH_T1	5	3	-2	0.82	0.77	-0.05	-1.83	-1.86	3	3	0	2100	2100	0
2/17/2025 11:12	44301	BEAV_T2	1	4	3	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
2/17/2025 11:12	44302	BEAV_T2	0	3	3	0	0.6	0.6	0.29	0.27	0	0	0	0	0	0
2/17/2025 11:14	53502	EVIL_T2	1	8	7	2.9	3.4	0.5	0.21	0.26	2	2	0	1200	1200	0
2/17/2025 11:14	53501	EVIL_T2	2	2	0	0.15	0.4	0.25	0	0	0	0	0	0	0	0
2/17/2025 11:15	52403	GRPA_T2	6	17	11	0.83	0.74	-0.09	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/17/2025 11:15	52402	GRPA_T2	37	44	7	0.78	0.43	-0.35	0	0	0	0	0	0	0	0
2/17/2025 11:15	45801	HEGI_T1	0	0	0	0	0	0	-0.55	-0.49	1	1	0	900	900	0
2/17/2025 11:15	52401	GRPA_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
2/17/2025 11:17	52402	GRPA_T2	37	44	7	0.78	0.43	-0.35	0	0	0	0	0	0	0	0
2/17/2025 11:17	52403	GRPA_T2	6	17	11	0.83	0.74	-0.09	-0.95	-0.94	0	0	0	0	0	0
2/17/2025 11:17	41205	KENM_T2	0	0	0	0	0	0	-0.74	-0.74	1	1	0	600	600	0
2/17/2025 11:18	14402	SSLA_T1	11	9	-2	0.63	0.63	0	0	0	0	0	0	0	0	0
2/17/2025 11:18	52403	GRPA_T2	6	17	11	0.83	0.74	-0.09	0	0	0	0	0	0	0	0
2/17/2025 11:18	14403	SSLA_T1	7	6	-1	0.83	0.32	-0.51	0.27	0.29	1	1	0	600	600	0
2/17/2025 11:18	52402	GRPA_T2	37	44	7	0.78	0.43	-0.35	0	0	0	0	0	0	0	0
2/17/2025 11:18	14401	SSLA_T1	3	3	0	0.7	1.5	0.8	0	0	0	0	0	0	0	0
2/17/2025 11:18	65601	QVIL_T2	0	7	7	0	0.26	0.26	0	0	0	0	0	0	0	0
2/17/2025 11:18	65604	QVIL_T2	0	0	0	0	0	0	0.54	0.49	0	0	0	0	0	0
2/17/2025 11:19	52402	GRPA_T2	37	44	7	0.78	0.43	-0.35	0	0	0	0	0	0	0	0
2/17/2025 11:19	52403	GRPA_T2	6	17	11	0.83	0.74	-0.09	-0.95	-0.94	0	0	0	0	0	0
2/17/2025 11:20	44801	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:21	64101	REFR_T1	2	1	-1	0.15	0.1	-0.05	0.56	0.56	0	0	0	0	0	0
2/17/2025 11:21	20602	GRWO_T2	4	0	-4	0.18	0	-0.18	0	0	0	0	0	0	0	0
2/17/2025 11:21	20601	GRWO_T2	54	48	-6	0.59	0.51	-0.08	0.75	0.63	0	0	0	0	0	0
2/17/2025 11:21	41902	REED_T1	0	0	0	0	0	0	-0.59	0.24	1	1	0	900	900	0
2/17/2025 11:21	41903	REED_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:21	20603	GRWO_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 11:22	16102	BING_T2	1	1	0	5.2	6.5	1.3	0	0	0	0	0	0	0	0
2/17/2025 11:22	64101	REFR_T1	2	1	-1	0.15	0.1	-0.05	0.28	0.28	0	0	0	0	0	0
2/17/2025 11:22	16103	BING_T2	3	2	-1	0.97	0.2	-0.77	0	0	0	0	0	0	0	0
2/17/2025 11:23	45502	DERR_T2	3	2	-1	0.37	0	-0.37	-0.52	-0.53	0	0	0	0	0	0
2/17/2025 11:23	45501	DERR_T2	0	9	9	0	0.28	0.28	0.33	0.33	2	2	0	1800	1800	0
2/17/2025 11:24	66701	STRA_T1	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
2/17/2025 11:27	62601	ENGL_T1	1	1	0	2.6	0	-2.6	0	0	0	0	0	0	0	0
2/17/2025 11:27	62605	ENGL_T1	0	0	0	0	0	0	-1.42	-1.43	0	0	0	0	0	0
2/17/2025 11:28	46204	DANV_T2	94	75	-19	0.49	0.36	-0.13	0	0	0	0	0	0	0	0
2/17/2025 11:28	46206	DANV_T2	32	30	-2	0.53	0.58	0.05	0	0	0	0	0	0	0	0
2/17/2025 11:28	10805	CHHI_T2	1	1	0	7.4	7.2	-0.2	-1.98	-1.97	2	2	0	1800	1800	0
2/17/2025 11:28	46203	DANV_T2	30	34	4	0.67	0.74	0.07	-1.57	-1.59	0	0	0	0	0	0
2/17/2025 11:29	28403	HART_T2	0	0	0	0	0	0	-0.66	-0.6	1	1	0	900	900	0
2/17/2025 11:30	40501	CRES_T2	10	11	1	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
2/17/2025 11:33	67605	WARW_T1	4	8	4	0.43	0.41	-0.02	-1.1	-1.08	0	0	0	0	0	0
2/17/2025 11:33	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/17/2025 11:33	55002	NEWP_T1	6	5	-1	0.77	0.82	0.05	-0.15	-0.14	0	0	0	0	0	0
2/17/2025 11:34	20601	GRWO_T2	43	40	-3	0.57	0.55	-0.02	0.75	0.63	0	0	0	0	0	0
2/17/2025 11:34	14402	SSLA_T1	9	6	-3	0.72	0.63	-0.09	0	0	0	0	0	0	0	0
2/17/2025 11:34	14403	SSLA_T1	6	7	1	0.35	0.46	0.11	0.29	0.27	1	1	0	600	600	0
2/17/2025 11:34	55002	NEWP_T1	6	5	-1	0.77	0.82	0.05	-0.15	-0.14	0	0	0	0	0	0
2/17/2025 11:34	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/17/2025 11:34	20603	GRWO_T2	3	6	3	0.2	0.2	0	0	0	0	0	0	0	0	0
2/17/2025 11:34	14401	SSLA_T1	3	3	0	1.57	1.43	-0.14	0	0	0	0	0	0	0	0
2/17/2025 11:35	67605	WARW_T1	4	8	4	0.43	0.41	-0.02	-1.1	-1.08	0	0	0	0	0	0
2/17/2025 11:35	25503	MADI_T1	143	84	-59	0.79	0.48	-0.31	0	0	0	0	0	0	0	0
2/17/2025 11:35	59301	MCAL_T1	0	1	1	0	0.4	0.4	-1.92	-1.86	1	1	0	600	600	0
2/17/2025 11:35	25501	MADI_T1	229	198	-31	0.94	1.27	0.33	0	0	1	1	0	600	600	0
2/17/2025 11:35	47802	MOCA_T2	0	1	1	0	0	0	-0.76	-0.76	0	0	0	0	0	0
2/17/2025 11:35	59302	MCAL_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
2/17/2025 11:35	66703	STRA_T1	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
2/17/2025 11:36	55002	NEWP_T1	6	5	-1	0.77	0.82	0.05	-0.15	-0.14	0	0	0	0	0	0
2/17/2025 11:36	67605	WARW_T1	4	8	4	0.43	0.41	-0.02	-1.08	-0.99	0	0	0	0	0	0
2/17/2025 11:36	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.83	-0.23	1	0	-1	600	0	-600
2/17/2025 11:36	47802	MOCA_T2	0	1	1	0	0	0	-0.76	-0.68	0	0	0	0	0	0
2/17/2025 11:37	41903	REED_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:37	64101	REFR_T1	1	2	1	0.1	0.35	0.25	0.56	0.54	0	0	0	0	0	0
2/17/2025 11:37	41902	REED_T1	0	0	0	0	0	0	0.24	0.4	1	1	0	900	900	0
2/17/2025 11:38	12305	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:38	12301	LANA_T2	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
2/17/2025 11:38	12302	LANA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:39	67402	WAKE_T2	0	0	0	0	0	0	0.56	0.62	1	1	0	600	600	0
2/17/2025 11:39	44905	SCOT_T1	12	4	-8	0.47	0	-0.47	0	0	0	0	0	0	0	0
2/17/2025 11:39	60201	ATGL_T2	0	0	0	0	0	0	0.32	0.23	0	0	0	0	0	0
2/17/2025 11:40	63802	HEMP_T1	1	0	-1	0.1	0	-0.1	0.24	0.3	0	0	0	0	0	0
2/17/2025 11:40	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:40	63804	HEMP_T1	1	1	0	6.8	7	0.2	0	0	0	0	0	0	0	0
2/17/2025 11:40	63801	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/17/2025 11:42	60803	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:42	63501	HEID_TBK1-2	0	0	0	0	0	0	0.24	0.23	1	1	0	900	900	0
2/17/2025 11:43	63501	HEID_TBK1-2	0	0	0	0	0	0	0.24	0.23	1	1	0	900	900	0
2/17/2025 11:45	40501	CRES_T2	7	11	4	0.3	0.36	0.06	0	0	0	0	0	0	0	0
2/17/2025 11:46	52403	GRPA_T2	15	18	3	0.71	0.6	-0.11	0	0	0	0	0	0	0	0
2/17/2025 11:46	52402	GRPA_T2	35	31	-4	0.52	0.34	-0.18	0	0	0	0	0	0	0	0
2/17/2025 11:46	14702	TREX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:46	52401	GRPA_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
2/17/2025 11:46	25402	LANA_T2	343	382	39	1.34	1.4	0.06	-0.3	-0.27	0	0	0	0	0	0
2/17/2025 11:47	46204	DANV_T2	68	114	46	0.42	0.73	0.31	0	0	0	0	0	0	0	0
2/17/2025 11:47	46203	DANV_T2	33	79	46	0.75	0.61	-0.14	-1.59	-1.6	0	0	0	0	0	0
2/17/2025 11:47	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	0.24	0.23	1	1	0	900	900	0
2/17/2025 11:47	46206	DANV_T2	26	17	-9	0.57	0.46	-0.11	0	0	0	0	0	0	0	0
2/17/2025 11:48	52403	GRPA_T2	15	18	3	0.71	0.6	-0.11	0	0	0	0	0	0	0	0
2/17/2025 11:48	62102	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:48	52404	GRPA_T2	0	0	0	0	0	0	-0.55	-0.6	0	0	0	0	0	0
2/17/2025 11:48	52402	GRPA_T2	35	31	-4	0.52	0.34	-0.18	0	0	0	0	0	0	0	0
2/17/2025 11:48	62105	ELAN_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
2/17/2025 11:50	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:50	60504	NMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/17/2025 11:50	52403	GRPA_T2	15	18	3	0.71	0.6	-0.11	-1.85	-2.01	0	0	0	0	0	0
2/17/2025 11:50	45502	DERR_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
2/17/2025 11:50	62102	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:50	62105	ELAN_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
2/17/2025 11:50	45501	DERR_T2	9	4	-5	0.73	0	-0.73	0.33	0.32	2	2	0	1800	1800	0
2/17/2025 11:50	52402	GRPA_T2	35	31	-4	0.52	0.34	-0.18	0	0	0	0	0	0	0	0
2/17/2025 11:51	52401	GRPA_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
2/17/2025 11:51	52403	GRPA_T2	15	18	3	0.71	0.6	-0.11	0	0	0	0	0	0	0	0
2/17/2025 11:51	40501	CRES_T2	7	11	4	0.3	0.36	0.06	0	0	0	0	0	0	0	0
2/17/2025 11:51	52402	GRPA_T2	35	31	-4	0.52	0.34	-0.18	0	0	0	0	0	0	0	0
2/17/2025 11:52	44801	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:53	46001	BERW_T1	0	1	1	0	0	0	0.84	0.62	0	0	0	0	0	0
2/17/2025 11:53	41903	REED_T1	4	0	-4	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/17/2025 11:53	67203	TEHI_T1	1	1	0	0.7	0	-0.7	2.37	2.73	3	3	0	2100	2100	0
2/17/2025 11:53	46005	BERW_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:53	67201	TEHI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 11:53	41901	REED_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:53	41902	REED_T1	0	1	1	0	0	0	0.4	0.33	1	1	0	900	900	0
2/17/2025 11:54	46001	BERW_T1	0	1	1	0	0	0	0.84	0.62	0	0	0	0	0	0
2/17/2025 11:54	15201	SFAR_T1	0	0	0	0	0	0	-0.77	-0.75	2	2	0	1800	1800	0
2/17/2025 11:54	46005	BERW_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:54	42701	AUGU_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
2/17/2025 11:55	46004	BERW_T2	1	4	3	3	0.2	-2.8	0	0	0	0	0	0	0	0
2/17/2025 11:55	46002	BERW_T2	0	1	1	0	0	0	-0.61	-0.65	1	1	0	900	900	0
2/17/2025 11:55	60301	TWVA_T2	0	0	0	0	0	0	-2.8	-2.82	2	2	0	1800	1800	0
2/17/2025 11:56	42701	AUGU_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
2/17/2025 11:56	14308	SUMN_T1	40	45	5	3.34	4.25	0.91	0	0	0	0	0	0	0	0
2/17/2025 11:56	58402	MORO_T1	3	1	-2	0.47	1.4	0.93	-0.96	-0.64	5	3	-2	3150	2400	-750
2/17/2025 11:56	14307	SUMN_T1	2	2	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/17/2025 11:56	46004	BERW_T2	1	4	3	3	0.2	-2.8	-0.2	-0.07	0	0	0	0	0	0
2/17/2025 11:56	61502	EPET_T1	0	0	0	0	0	0	-2.26	-2.29	0	0	0	0	0	0
2/17/2025 11:56	46002	BERW_T2	0	1	1	0	0	0	-1.22	-1.3	2	2	0	1800	1800	0
2/17/2025 11:56	14305	SUMN_T1	1	1	0	1.5	0.7	-0.8	0	0	0	0	0	0	0	0
2/17/2025 11:56	23001	SAJO_T1	0	0	0	0	0	0	-1.37	-1.35	0	0	0	0	0	0
2/17/2025 11:56	14303	SUMN_T1	3	10	7	6.8	6.8	0	0	0	0	0	0	0	0	0
2/17/2025 11:56	14301	SUMN_T1	5	19	14	1.58	1.27	-0.31	0	0	0	0	0	0	0	0
2/17/2025 11:56	14302	SUMN_T1	5	9	4	0.6	0	-0.6	0.39	0.41	0	0	0	0	0	0
2/17/2025 11:56	23003	SAJO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:56	14306	SUMN_T1	44	64	20	1.18	1.07	-0.11	0	0	0	0	0	0	0	0
2/17/2025 11:56	15203	SFAR_T2	2	2	0	0.15	0.25	0.1	-1.23	-1.28	0	0	0	0	0	0
2/17/2025 11:56	10805	CHHI_T2	1	7	6	7.4	7.4	0	-1.9	-2.08	2	2	0	1800	1800	0
2/17/2025 11:56	40501	CRES_T2	7	11	4	0.3	0.36	0.06	0	0	0	0	0	0	0	0
2/17/2025 11:57	46001	BERW_T1	0	1	1	0	0	0	0.84	0.62	0	0	0	0	0	0
2/17/2025 11:57	46002	BERW_T2	0	1	1	0	0	0	-0.61	-0.65	1	1	0	900	900	0
2/17/2025 11:57	46004	BERW_T2	1	4	3	3	0.2	-2.8	-0.2	-0.07	0	0	0	0	0	0
2/17/2025 11:57	46005	BERW_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:57	42701	AUGU_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
2/17/2025 11:58	52402	GRPA_T2	35	31	-4	0.52	0.34	-0.18	0	0	0	0	0	0	0	0
2/17/2025 11:58	52403	GRPA_T2	15	18	3	0.71	0.6	-0.11	-1.01	-1	0	0	0	0	0	0
2/17/2025 11:58	46004	BERW_T2	1	4	3	3	0.2	-2.8	0	0	0	0	0	0	0	0
2/17/2025 11:58	46002	BERW_T2	0	1	1	0	0	-0.61	-0.65	1	1	0	900	900	0
2/17/2025 11:58	53502	EVIL_T2	1	1	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
2/17/2025 11:58	46206	DANV_T2	26	17	-9	0.57	0.46	-0.11	0	0	0	0	0	0	0	0
2/17/2025 11:58	53501	EVIL_T2	3	4	1	0.37	0.65	0.28	-1.17	-1.16	2	2	0	1200	1200	0
2/17/2025 11:58	61505	EPET_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
2/17/2025 11:58	46203	DANV_T2	33	79	46	0.75	0.61	-0.14	-1.6	-1.66	0	0	0	0	0	0
2/17/2025 11:58	46204	DANV_T2	68	114	46	0.42	0.73	0.31	0	0	0	0	0	0	0	0
2/17/2025 11:59	64204	KINZ_T1	3	11	8	0.5	0.41	-0.09	0	0	0	0	0	0	0	0
2/17/2025 11:59	64902	MILL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 11:59	46004	BERW_T2	1	4	3	3	0.2	-2.8	-0.2	-0.07	0	0	0	0	0	0
2/17/2025 11:59	64202	KINZ_T1	0	2	2	0	0.2	0.2	0.92	0.89	0	0	0	0	0	0
2/17/2025 11:59	46002	BERW_T2	0	1	1	0	0	0	-0.61	-0.65	1	1	0	900	900	0
2/17/2025 11:59	64201	KINZ_T1	12	4	-8	0.19	0	-0.19	0	0	0	0	0	0	0	0
2/17/2025 11:59	64903	MILL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/17/2025 12:00	53501	EVIL_T2	4	3	-1	0.65	0.47	-0.18	-1.17	-1.16	2	2	0	1200	1200	0
2/17/2025 12:00	53502	EVIL_T2	1	1	0	3.4	1.8	-1.6	0	0	0	0	0	0	0	0
2/17/2025 12:01	23402	HONE_T2	50	0	-50	0.87	0	-0.87	0	0	0	0	0	0	0	0
2/17/2025 12:01	23401	HONE_T2	1	2	1	1.5	1.35	-0.15	0	0.43	0	0	0	0	0	0
2/17/2025 12:02	55002	NEWP_T1	5	6	1	0.76	0.83	0.07	-0.16	-0.13	0	0	0	0	0	0
2/17/2025 12:02	67605	WARW_T1	6	9	3	0.52	0.55	0.03	-0.99	-0.9	0	0	0	0	0	0
2/17/2025 12:03	64204	KINZ_T1	3	13	10	0.53	0.42	-0.11	0	0	0	0	0	0	0	0
2/17/2025 12:03	65602	QVIL_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
2/17/2025 12:03	65603	QVIL_T2	0	0	0	0	0	0	0.77	0.48	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/17/2025 12:03	64903	MILL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/17/2025 12:03	65604	QVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/17/2025 12:03	65601	QVIL_T2	4	51	47	0.28	0.19	-0.09	0	0	0	0	0	0	0	0
2/17/2025 12:03	64902	MILL_T2	0	0	0	0	0	0	-1.33	-1.33	1	1	0	900	900	0
2/17/2025 12:03	64203	KINZ_T1	0	1	1	0	0.1	0.1	-1	-1.28	2	2	0	1800	1800	0
2/17/2025 12:03	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/17/2025 12:04	14401	SSLA_T1	3	3	0	1.43	0.9	-0.53	0	0	0	0	0	0	0	0
2/17/2025 12:04	14403	SSLA_T1	6	8	2	0.82	0.49	-0.33	0	0	0	0	0	0	0	0
2/17/2025 12:04	14402	SSLA_T1	6	12	6	0.72	0.71	-0.01	0	0	0	0	0	0	0	0
2/17/2025 12:05	67605	WARW_T1	6	9	3	0.52	0.55	0.03	-0.99	-0.9	0	0	0	0	0	0
2/17/2025 12:05	55002	NEWP_T1	5	6	1	0.76	0.83	0.07	-0.16	-0.13	0	0	0	0	0	0
2/17/2025 12:06	67605	WARW_T1	6	9	3	0.52	0.55	0.03	-0.99	-0.9	0	0	0	0	0	0
2/17/2025 12:06	52402	GRPA_T2	26	29	3	0.45	0.45	0	0	0	0	0	0	0	0	0
2/17/2025 12:06	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 12:06	18001	ZION_T1	2	2	0	8.25	8.45	0.2	0	0	0	0	0	0	0	0
2/17/2025 12:06	52401	GRPA_T2	0	0	0	0	0	0	-0.46	-0.51	0	0	0	0	0	0
2/17/2025 12:06	66702	STRA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 12:06	66703	STRA_T1	0	1	1	0	1.3	1.3	-0.79	-0.85	0	0	0	0	0	0
2/17/2025 12:06	52403	GRPA_T2	18	21	3	0.61	0.64	0.03	-1.01	-1	0	0	0	0	0	0
2/17/2025 12:07	65601	QVIL_T2	4	51	47	0.28	0.19	-0.09	0	0	0	0	0	0	0	0
2/17/2025 12:07	65604	QVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/17/2025 12:07	64101	REFR_T1	2	5	3	0.35	0.42	0.07	0.25	0.25	0	0	0	0	0	0
2/17/2025 12:07	65603	QVIL_T2	0	0	0	0	0	0	0.48	0.55	0	0	0	0	0	0
2/17/2025 12:07	65602	QVIL_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
2/17/2025 12:07	67605	WARW_T1	6	9	3	0.52	0.55	0.03	-0.9	-0.94	0	0	0	0	0	0
2/17/2025 12:08	58401	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/17/2025 12:08	64101	REFR_T1	2	5	3	0.35	0.42	0.07	0.5	0.5	0	0	0	0	0	0
2/17/2025 12:08	58402	MORO_T1	1	2	0	1.4	0.3	-1.1	-0.64	-0.65	3	3	0	2400	2400	0
2/17/2025 12:09	17802	GILB_T1	1	2	1	0.7	0.65	-0.05	0.1	0.06	0	0	0	0	0	0
2/17/2025 12:09	41601	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 12:09	64101	REFR_T1	2	5	3	0.35	0.42	0.07	0.25	0.25	0	0	0	0	0	0
2/17/2025 12:09	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 12:10	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 12:10	61304	EARL_T1	0	2	2	0	0.3	0.3	-0.73	-0.71	1	1	0	600	600	0
2/17/2025 12:10	41601	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 12:10	61302	EARL_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
2/17/2025 12:12	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 12:12	26701	HEMI_T1	9	7	-2	0.89	0.5	-0.39	0	0	0	0	0	0	0	0
2/17/2025 12:12	26703	HEMI_T1	4	0	-4	0.63	0	-0.63	-0.61	-0.63	1	1	0	600	600	0
2/17/2025 12:12	41601	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 12:14	14401	SSLA_T1	3	3	0	1.43	0.9	-0.53	0	0	0	0	0	0	0	0
2/17/2025 12:14	14403	SSLA_T1	6	8	2	0.82	0.49	-0.33	0	0	0	0	0	0	0	0
2/17/2025 12:14	14402	SSLA_T1	6	12	6	0.72	0.71	-0.01	0	0	0	0	0	0	0	0
2/17/2025 12:17	54505	ENOL_T2	0	0	0	0	0	0	-0.65	-0.65	1	1	0	600	600	0
2/17/2025 12:18	64903	MILL_T2	0	0	0	0	0	0	-1.33	-1.32	1	1	0	900	900	0
2/17/2025 12:18	64903	MILL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/17/2025 12:20	66501	SMAN_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
2/17/2025 12:20	66505	SMAN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
2/17/2025 12:20	66504	SMAN_T2	4	3	-1	0.58	0.83	0.25	0	0	0	0	0	0	0	0
2/17/2025 12:20	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/17/2025 12:21	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/17/2025 12:21	66501	SMAN_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
2/17/2025 12:21	66505	SMAN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
2/17/2025 12:21	66504	SMAN_T2	4	3	-1	0.58	0.83	0.25	-3.2	-3.03	2	2	0	2400	2400	0
2/17/2025 12:21	44901	SCOT_T2	0	0	0	0	0	0	0.17	0.24	0	0	0	0	0	0
2/17/2025 12:22	23401	HONE_T2	45	82	37	1.24	1.88	0.64	0.4	0.42	0	0	0	0	0	0
2/17/2025 12:22	66701	STRA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/17/2025 12:22	66702	STRA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 12:22	16101	BING_T2	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
2/17/2025 12:22	66703	STRA_T1	1	1	0	0.8	1.3	0.5	-2.56	-2.23	0	0	0	0	0	0
2/17/2025 12:22	16102	BING_T2	1	1	0	6.1	5.6	-0.5	0.18	0.03	0	0	0	0	0	0
2/17/2025 12:22	16103	BING_T2	1	2	1	0.1	0.85	0.75	0	0	0	0	0	0	0	0
2/17/2025 12:22	55002	NEWP_T1	4	6	2	0.78	0.87	0.09	-0.14	-0.14	0	0	0	0	0	0
2/17/2025 12:23	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/17/2025 12:23	66501	SMAN_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
2/17/2025 12:23	66505	SMAN_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
2/17/2025 12:23	66504	SMAN_T2	4	3	-1	0.58	0.83	0.25	0	0	0	0	0	0	0	0
2/17/2025 12:23	66503	SMAN_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
2/17/2025 12:24	66703	STRA_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
2/17/2025 12:24	66702	STRA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 12:24	17805	GILB_T2	3	1	-2	0.17	0	-0.17	0.31	0.3	0	0	0	0	0	0
2/17/2025 12:24	66701	STRA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/17/2025 12:24	17804	GILB_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/17/2025 12:24	64101	REFR_T1	3	5	2	0.47	0.44	-0.03	0.25	0.25	0	0	0	0	0	0
2/17/2025 12:24	40501	CRES_T2	7	10	3	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
2/17/2025 12:25	41601	CLEV_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/17/2025 12:25	64101	REFR_T1	3	5	2	0.47	0.44	-0.03	0.25	0.25	0	0	0	0	0	0
2/17/2025 12:25	41602	CLEV_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/17/2025 12:26	58402	MORO_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
2/17/2025 12:26	17802	GILB_T1	1	2	1	0.8	0.7	-0.1	0.06	0.09	0	0	0	0	0	0
2/17/2025 12:26	58401	MORO_T1	0	1	1	0	0.2	0.2	-0.93	-0.94	1	1	0	600	600	0
2/17/2025 12:26	41602	CLEV_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/17/2025 12:26	41601	CLEV_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/17/2025 12:27	41602	CLEV_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/17/2025 12:27	41601	CLEV_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/17/2025 12:28	53501	EVIL_T2	2	3	1	0.5	0.47	-0.03	-1.16	-1.08	2	2	0	1200	1200	0
2/17/2025 12:28	53502	EVIL_T2	1	1	0	2.4	1.8	-0.6	0	0	0	0	0	0	0	0
2/17/2025 12:28	41801	GOCI_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
2/17/2025 12:30	66903	SHIL_T2	0	0	0	0	0	0	-1.09	-1.13	0	0	0	0	0	0
2/17/2025 12:30	66901	SHIL_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/17/2025 12:31	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 12:31	58402	MORO_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/17/2025 12:31	66901	SHIL_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/17/2025 12:31	58401	MORO_T1	1	0	-1	0.2	0	-0.2	-0.93	-0.94	1	1	0	600	600	0
2/17/2025 12:32	11101	EGYP_T1	2	1	-1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/17/2025 12:32	11102	EGYP_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 12:32	11104	EGYP_T1	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/17/2025 12:33	58102	NEKI_T1	1	1	0	0.9	0.8	-0.1	-0.87	-0.89	1	1	0	1200	1200	0
2/17/2025 12:33	58101	NEKI_T1	2	1	-1	0.65	0.9	0.25	0	0	0	0	0	0	0	0
2/17/2025 12:34	61102	BERK_T5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 12:34	11104	EGYP_T1	2	1	-1	0.3	0	-0.3	0.44	0.4	0	0	0	0	0	0
2/17/2025 12:34	11102	EGYP_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 12:34	66502	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/17/2025 12:34	20601	GRWO_T2	5	5	0	0.76	0.75	-0.01	0.36	0.33	0	0	0	0	0	0
2/17/2025 12:34	66501	SMAN_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
2/17/2025 12:34	11101	EGYP_T1	2	1	-1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/17/2025 12:34	66504	SMAN_T2	2	3	1	1.15	0.67	-0.48	-1.6	-1.51	1	1	0	1200	1200	0
2/17/2025 12:34	64101	REFR_T1	5	5	0	0.42	0.34	-0.08	0.25	0.25	0	0	0	0	0	0
2/17/2025 12:34	20603	GRWO_T2	3	2	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/17/2025 12:34	66505	SMAN_T2	2	3	1	0.1	0.17	0.07	0	0	0	0	0	0	0	0
2/17/2025 12:35	67001	STHI_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
2/17/2025 12:35	67002	STHI_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/17/2025 12:35	41902	REED_T1	3	3	0	0.23	0	-0.23	0.32	0.27	1	1	0	900	900	0
2/17/2025 12:35	63601	LETO_T1	6	6	0	0.52	0.38	-0.14	0.03	-0.07	1	1	0	900	900	0
2/17/2025 12:36	11101	EGYP_T1	2	1	-1	0.4	0.6	0.2	-0.73	-0.76	1	1	0	1200	1200	0
2/17/2025 12:36	11102	EGYP_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 12:36	11104	EGYP_T1	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/17/2025 12:36	65902	SAKR_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
2/17/2025 12:36	65901	SAKR_T2	2	2	0	5	5.05	0.05	-1.46	-1.69	2	2	0	1500	1500	0
2/17/2025 12:37	42902	MIDD_T2	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
2/17/2025 12:37	67402	WAKE_T2	0	2	2	0	0.2	0.2	0.56	0.52	1	1	0	600	600	0
2/17/2025 12:37	67401	WAKE_T2	0	0	0	0	0	0	-1.02	-1.08	0	0	0	0	0	0
2/17/2025 12:37	42903	MIDD_T2	2	0	-2	0.65	0	-0.65	1.62	0.29	0	1	1	0	1200	1200
2/17/2025 12:38	65604	QVIL_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/17/2025 12:38	11103	EGYP_T1	0	0	0	0	0	0	-0.8	-0.77	0	0	0	0	0	0
2/17/2025 12:38	11104	EGYP_T1	2	1	-1	0.3	0	-0.3	0.4	0.4	0	0	0	0	0	0
2/17/2025 12:38	11102	EGYP_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 12:38	11101	EGYP_T1	2	1	-1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/17/2025 12:38	65603	QVIL_T2	0	0	0	0	0	0	0.96	0.75	0	0	0	0	0	0
2/17/2025 12:38	65601	QVIL_T2	47	0	-47	0.19	0	-0.19	0	0	0	0	0	0	0	0
2/17/2025 12:38	65602	QVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/17/2025 12:38	66702	STRA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/17/2025 12:38	17802	GILB_T1	2	2	0	0.65	1.1	0.45	0.09	0.07	0	0	0	0	0	0
2/17/2025 12:38	66703	STRA_T1	1	1	0	1.3	1.1	-0.2	-0.74	-0.71	0	0	0	0	0	0
2/17/2025 12:40	60201	ATGL_T2	2	0	-2	0.1	0	-0.1	0.18	0.18	0	0	0	0	0	0
2/17/2025 12:41	65902	SAKR_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
2/17/2025 12:41	64101	REFR_T1	5	5	0	0.42	0.34	-0.08	0.25	0.23	0	0	0	0	0	0
2/17/2025 12:41	17802	GILB_T1	2	2	0	0.65	1.1	0.45	0.09	0.07	0	0	0	0	0	0
2/17/2025 12:41	65901	SAKR_T2	2	2	0	5	5.05	0.05	-1.46	-1.69	2	2	0	1500	1500	0
2/17/2025 12:42	60801	BUCK_T1	2	2	0	0.6	0.35	-0.25	-0.1	-0.11	0	0	0	0	0	0
2/17/2025 12:42	61504	EPET_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
2/17/2025 12:42	60803	BUCK_T1	7	3	-4	0.21	0.1	-0.11	-1.44	-1.41	3	3	0	1800	1800	0
2/17/2025 12:43	60803	BUCK_T1	7	3	-4	0.21	0.1	-0.11	-0.96	-0.94	2	2	0	1200	1200	0
2/17/2025 12:43	60801	BUCK_T1	2	2	0	0.6	0.35	-0.25	-0.1	-0.11	0	0	0	0	0	0
2/17/2025 12:44	10805	CHHI_T2	7	7	0	1.71	8.6	6.89	-1.13	-1.14	1	1	0	600	600	0
2/17/2025 12:45	64402	LAND_T2	1	3	2	0.2	0.37	0.17	-0.35	-0.34	1	1	0	600	600	0
2/17/2025 12:45	58401	MORO_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	600	600	0
2/17/2025 12:45	64404	LAND_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/17/2025 12:45	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 12:46	64401	LAND_T1	0	1	1	0	0.1	0.1	-1.03	-1.05	1	1	0	600	600	0
2/17/2025 12:46	54505	ENOL_T2	0	0	0	0	0	0	-0.64	-0.64	1	1	0	600	600	0
2/17/2025 12:47	44802	EDAN_T2	0	0	0	0	0	0	-3.43	-3.45	1	1	0	1200	1200	0
2/17/2025 12:47	44801	EDAN_T2	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
2/17/2025 12:48	64401	LAND_T1	0	1	1	0	0.1	0.1	-1.03	-1.05	1	1	0	600	600	0
2/17/2025 12:48	44802	EDAN_T2	0	0	0	0	0	0	-10.28	-10.35	3	3	0	3600	3600	0
2/17/2025 12:50	47101	MARL_T1	66	2457	2391	1.13	1.11	-0.02	0	0	1	1	0	600	600	0
2/17/2025 12:50	44802	EDAN_T2	0	0	0	0	0	0	-3.43	-3.45	1	1	0	1200	1200	0
2/17/2025 12:50	41902	REED_T1	3	0	-3	0.3	0	-0.3	0.27	0.26	1	1	0	900	900	0
2/17/2025 12:50	49803	UNIV_T1	2	1	-1	2.9	5.6	2.7	0	0	0	0	0	0	0	0
2/17/2025 12:51	67402	WAKE_T2	1	3	2	0.1	0.2	0.1	0.52	-0.27	1	1	0	600	600	0
2/17/2025 12:51	44802	EDAN_T2	0	0	0	0	0	0	-3.45	-3.45	1	1	0	1200	1200	0
2/17/2025 12:51	49803	UNIV_T1	2	1	-1	2.9	5.6	2.7	-0.8	-0.82	0	0	0	0	0	0
2/17/2025 12:51	44801	EDAN_T2	0	0	0	0	0	0	-0.29	-0.37	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/17/2025 12:52	44802	EDAN_T2	0	0	0	0	0	0	-3.45	-3.45	1	1	0	1200	1200	0
2/17/2025 12:53	42701	AUGU_T1	1	1	0	0.4	0.2	-0.2	0	0	2	2	0	1800	1800	0
2/17/2025 12:54	40501	CRES_T2	8	11	3	0.29	0.4	0.11	0	0	0	0	0	0	0	0
2/17/2025 12:55	67402	WAKE_T2	1	3	2	0.1	0.2	0.1	0.52	-0.27	1	1	0	600	600	0
2/17/2025 12:56	40501	CRES_T2	8	11	3	0.29	0.4	0.11	0	0	0	0	0	0	0	0
2/17/2025 12:57	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/17/2025 12:57	41601	CLEV_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/17/2025 12:58	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 12:58	46802	HEPB_T1	1	1	0	0.5	0.5	0	-0.04	-0.12	0	0	0	0	0	0
2/17/2025 12:58	58401	MORO_T1	0	0	0	0	0	0	-0.94	-0.92	1	1	0	600	600	0
2/17/2025 12:59	46801	HEPB_T2	0	0	0	0	0	0	0.7	0.72	0	0	0	0	0	0
2/17/2025 13:01	64402	LAND_T2	3	3	0	0.17	0.37	0.2	-0.34	-0.3	1	1	0	600	600	0
2/17/2025 13:01	61803	EELI_T2	0	0	0	0	0	0	0.25	0.27	1	1	0	600	600	0
2/17/2025 13:03	25503	MADI_T1	2	1	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
2/17/2025 13:03	44701	MUNC_T2	0	0	0	0	0	0	-1.33	-1.3	0	0	0	0	0	0
2/17/2025 13:03	25501	MADI_T1	215	176	-39	0.55	0.61	0.06	0	0	0	0	0	0	0	0
2/17/2025 13:04	52403	GRPA_T2	10	15	5	0.47	0.5	0.03	-0.99	-1.08	0	0	0	0	0	0
2/17/2025 13:04	43101	SMIL_T2	0	2	2	0	0.1	0.1	-1.15	-1.17	0	0	0	0	0	0
2/17/2025 13:04	52402	GRPA_T2	22	29	7	0.54	0.39	-0.15	0	0	0	0	0	0	0	0
2/17/2025 13:04	43103	SMIL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
2/17/2025 13:04	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/17/2025 13:04	67605	WARW_T1	10	21	11	0.49	0.41	-0.08	-0.97	-0.99	0	0	0	0	0	0
2/17/2025 13:04	43105	SMIL_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/17/2025 13:05	52402	GRPA_T2	22	29	7	0.54	0.39	-0.15	0	0	0	0	0	0	0	0
2/17/2025 13:05	52403	GRPA_T2	10	15	5	0.47	0.5	0.03	0	0	0	0	0	0	0	0
2/17/2025 13:05	52401	GRPA_T2	0	1	1	0	0.4	0.4	-0.4	-0.41	0	0	0	0	0	0
2/17/2025 13:06	54602	SUMM_T2	0	0	0	0	0	0	-2.34	-2.31	1	1	0	600	600	0
2/17/2025 13:07	52403	GRPA_T2	10	15	5	0.47	0.5	0.03	0	0	0	0	0	0	0	0
2/17/2025 13:07	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/17/2025 13:07	52402	GRPA_T2	22	29	7	0.54	0.39	-0.15	0	0	0	0	0	0	0	0
2/17/2025 13:08	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 13:09	66703	STRA_T1	1	1	0	1.1	1	-0.1	-0.76	-0.76	0	0	0	0	0	0
2/17/2025 13:09	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 13:10	10805	CHIH_T2	7	7	0	1.5	1.58	0.08	-1.07	-1.23	1	1	0	600	600	0
2/17/2025 13:10	40501	CRES_T2	10	9	-1	0.3	0.38	0.08	0	0	0	0	0	0	0	0
2/17/2025 13:11	67402	WAKE_T2	2	1	-1	0.2	0.2	0	-0.27	-0.27	1	1	0	600	600	0
2/17/2025 13:11	67401	WAKE_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/17/2025 13:11	58401	MORO_T1	0	1	1	0	0.2	0.2	-0.92	-0.91	1	1	0	600	600	0
2/17/2025 13:11	58402	MORO_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
2/17/2025 13:12	53501	EVIL_T2	0	4	4	0	0.53	0.53	-1.18	-1.17	2	2	0	1200	1200	0
2/17/2025 13:12	53502	EVIL_T2	1	1	0	2.5	1	-1.5	0	0	0	0	0	0	0	0
2/17/2025 13:13	63501	HEID_TBK1-2	0	0	0	0	0	0	0.34	0.36	1	1	0	900	900	0
2/17/2025 13:14	54505	ENOL_T2	0	0	0	0	0	0	-0.65	-0.64	1	1	0	600	600	0
2/17/2025 13:17	64402	LAND_T2	3	3	0	0.37	0.23	-0.14	-0.3	-0.34	1	1	0	600	600	0
2/17/2025 13:18	67702	WERN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/17/2025 13:18	67701	WERN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 13:18	67703	WERN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/17/2025 13:18	44802	EDAN_T2	0	0	0	0	0	0	-3.45	-2.15	1	0	-1	1200	0	-1200
2/17/2025 13:19	66703	STRA_T1	1	1	0	0.9	1	0.1	-0.76	-0.76	0	0	0	0	0	0
2/17/2025 13:19	51204	MTON_T2	0	0	0	0	0	0	-0.38	-0.38	1	1	0	600	600	0
2/17/2025 13:19	65503	MOJO_T2	0	0	0	0	0	0	-0.81	-0.84	1	1	0	900	900	0
2/17/2025 13:19	66701	STRA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/17/2025 13:19	44901	SCOT_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/17/2025 13:19	51202	MTON_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 13:19	44902	SCOT_T2	1	1	0	0.1	0.2	0.1	-0.89	-0.92	0	0	0	0	0	0
2/17/2025 13:19	67605	WARW_T1	19	10	-9	0.42	0.47	0.05	-0.99	-1.02	0	0	0	0	0	0
2/17/2025 13:20	66703	STRA_T1	1	0	-1	0.9	1	0.1	-0.76	-0.76	0	0	0	0	0	0
2/17/2025 13:20	44802	EDAN_T2	0	0	0	0	0	0	-6.9	-4.29	2	0	-2	2400	0	-2400
2/17/2025 13:20	66701	STRA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/17/2025 13:21	44904	SCOT_T1	0	0	0	0	0	0	0.56	0.51	0	0	0	0	0	0
2/17/2025 13:21	44802	EDAN_T2	0	0	0	0	0	0	-2.15	-2.16	1	0	-1	1200	0	-1200
2/17/2025 13:22	40505	CRES_T1	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
2/17/2025 13:23	41204	KENM_T2	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
2/17/2025 13:24	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 13:24	66701	STRA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/17/2025 13:24	66703	STRA_T1	1	1	0	0.9	1	0.1	-0.76	-0.77	0	0	0	0	0	0
2/17/2025 13:25	40501	CRES_T2	9	9	0	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
2/17/2025 13:25	54601	SUMM_T2	0	0	0	0	0	0	-1.74	-1.76	2	2	0	2100	2100	0
2/17/2025 13:25	44802	EDAN_T2	0	0	0	0	0	0	-2.15	-2.16	0	0	0	0	0	0
2/17/2025 13:26	59101	WALK_T2	0	0	0	0	0	0	0.53	0.88	0	0	0	0	0	0
2/17/2025 13:26	44802	EDAN_T2	0	0	0	0	0	0	-4.29	-4.32	0	0	0	0	0	0
2/17/2025 13:27	24102	EHAZ_T1	48	98	50	1.32	1.2	-0.12	0.11	0.05	0	0	0	0	0	0
2/17/2025 13:27	67402	WAKE_T2	1	0	-1	0.2	0	-0.2	-0.27	-0.3	1	1	0	600	600	0
2/17/2025 13:27	24105	EHAZ_T1	29	30	1	1.71	1.78	0.07	0	0	0	0	0	0	0	0
2/17/2025 13:27	67401	WAKE_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/17/2025 13:27	53502	EVIL_T2	1	1	0	2.5	1	-1.5	0	0	0	0	0	0	0	0
2/17/2025 13:27	24103	EHAZ_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 13:27	24101	EHAZ_T1	200	159	-41	1.54	1.69	0.15	0	0	0	0	0	0	0	0
2/17/2025 13:27	53501	EVIL_T2	2	4	2	0.4	0.53	0.13	-1.17	-1.09	2	2	0	1200	1200	0
2/17/2025 13:28	41801	GOCI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/17/2025 13:29	66901	SHIL_T2	1	1	0	0.1	0.2	0.1	-1.45	-1.48	1	1	0	1200	1200	0
2/17/2025 13:29	41801	GOCI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/17/2025 13:29	66902	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 13:30	23401	HONE_T2	49	9	-40	1.19	4.24	3.05	0.82	0.84	0	0	0	0	0	0
2/17/2025 13:31	65503	MOJO_T2	0	0	0	0	0	0	-0.84	-0.87	1	1	0	900	900	0
2/17/2025 13:32	66901	SHIL_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
2/17/2025 13:32	66902	SHIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/17/2025 13:32	66903	SHIL_T2	0	0	0	0	0	0	-1.11	-1.14	0	0	0	0	0	0
2/17/2025 13:33	64402	LAND_T2	3	1	-2	0.23	0.1	-0.13	-0.34	-0.23	1	1	0	600	600	0
2/17/2025 13:33	65503	MOJO_T2	0	0	0	0	0	0	-0.84	-0.87	1	1	0	900	900	0
2/17/2025 13:33	41202	KENM_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
2/17/2025 13:34	14403	SSLA_T1	5	6	1	0.58	0.33	-0.25	0	0	0	0	0	0	0	0
2/17/2025 13:34	14401	SSLA_T1	3	3	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/17/2025 13:34	14402	SSLA_T1	11	2	-9	0.64	0.1	-0.54	0	0	0	0	0	0	0	0
2/17/2025 13:35	52402	GRPA_T2	19	18	-1	0.35	0.38	0.03	0	0	0	0	0	0	0	0
2/17/2025 13:35	52403	GRPA_T2	12	9	-3	0.43	0.53	0.1	-1.06	-1.05	0	0	0	0	0	0
2/17/2025 13:35	52401	GRPA_T2	1	2	1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/17/2025 13:38	60201	ATGL_T2	0	2	2	0	0.15	0.15	0.28	0.14	0	0	0	0	0	0
2/17/2025 13:40	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 13:41	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 13:44	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 13:48	44801	EDAN_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
2/17/2025 13:51	52403	GRPA_T2	7	17	10	0.63	0.47	-0.16	-1.05	-1.06	0	0	0	0	0	0
2/17/2025 13:51	52402	GRPA_T2	17	46	29	0.51	0.35	-0.16	0	0	0	0	0	0	0	0
2/17/2025 13:52	66505	SMAN_T2	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/17/2025 13:52	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 13:52	66504	SMAN_T2	1	2	1	0.6	0.6	0	0	0	0	0	0	0	0	0
2/17/2025 13:52	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/17/2025 13:53	67804	WLAN_T1	2	1	-1	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/17/2025 13:53	67801	WLAN_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
2/17/2025 13:55	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 14:00	53501	EVIL_T2	3	3	0	0.63	0.87	0.24	-1.21	-1.17	2	2	0	1200	1200	0
2/17/2025 14:00	53502	EVIL_T2	11	1	-10	0.67	0.4	-0.27	0	0	0	0	0	0	0	0
2/17/2025 14:01	61506	EPET_T2	0	0	0	0	0	0	-0.69	-0.75	1	1	0	900	900	0
2/17/2025 14:04	57205	ROSS_T1	1	1	0	1	0.8	-0.2	0.24	0.23	0	0	0	0	0	0
2/17/2025 14:05	55101	WERT_T1	5	5	0	0.78	0.38	-0.4	-1.47	-1.49	2	2	0	1500	1500	0
2/17/2025 14:07	66504	SMAN_T2	2	0	-2	0.6	0	-0.6	-1.65	-1.56	1	1	0	1200	1200	0
2/17/2025 14:07	52403	GRPA_T2	7	26	19	0.47	0.81	0.34	-0.52	-0.6	0	0	0	0	0	0
2/17/2025 14:07	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/17/2025 14:07	66505	SMAN_T2	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/17/2025 14:07	52402	GRPA_T2	8	61	53	0.35	0.64	0.29	0	0	0	0	0	0	0	0
2/17/2025 14:10	41601	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 14:10	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 14:11	41601	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 14:12	41601	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 14:14	29401	BELT_T1	1	24	23	0.1	0.16	0.06	0	0	1	1	0	900	900	0
2/17/2025 14:14	29402	BELT_T1	2	1	-1	3.75	7.8	4.05	0	0	0	0	0	0	0	0
2/17/2025 14:15	67701	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/17/2025 14:15	67702	WERN_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
2/17/2025 14:15	67703	WERN_T2	1	0	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
2/17/2025 14:16	67702	WERN_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
2/17/2025 14:16	67701	WERN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/17/2025 14:16	67703	WERN_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/17/2025 14:21	44201	POIN_T1	3	58	55	0.1	0.17	0.07	-3.8	-3.49	4	4	0	4200	4200	0
2/17/2025 14:22	52402	GRPA_T2	44	61	17	0.68	0.64	-0.04	0	0	0	0	0	0	0	0
2/17/2025 14:22	52403	GRPA_T2	12	32	20	0.83	0.53	-0.3	-1.21	-1.05	0	0	0	0	0	0
2/17/2025 14:22	55002	NEWP_T1	7	5	-2	0.89	1.2	0.31	-0.19	-0.18	0	0	0	0	0	0
2/17/2025 14:22	45501	DERR_T2	0	0	0	0	0	0	0.51	0.46	4	4	0	3600	3600	0
2/17/2025 14:23	52403	GRPA_T2	12	32	20	0.83	0.53	-0.3	-0.6	-0.53	0	0	0	0	0	0
2/17/2025 14:23	52402	GRPA_T2	44	61	17	0.68	0.64	-0.04	0	0	0	0	0	0	0	0
2/17/2025 14:25	41601	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 14:25	40501	CRES_T2	13	9	-4	0.39	0.32	-0.07	0	0	0	0	0	0	0	0
2/17/2025 14:25	41602	CLEV_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 14:27	17804	GILB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/17/2025 14:27	17805	GILB_T2	0	1	1	0	0	0	0.16	0.2	0	0	0	0	0	0
2/17/2025 14:27	41602	CLEV_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 14:27	41601	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 14:28	41602	CLEV_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 14:28	41601	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 14:32	47401	PENS_T1	4	4	0	0.78	0.9	0.12	1.02	0.96	0	0	0	0	0	0
2/17/2025 14:32	47403	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 14:35	67401	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 14:35	67402	WAKE_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/17/2025 14:37	67702	WERN_T2	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
2/17/2025 14:37	20601	GRWO_T2	1	2	1	2.5	3.1	0.6	0.24	0.25	0	0	0	0	0	0
2/17/2025 14:37	67703	WERN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/17/2025 14:37	20603	GRWO_T2	11	4	-7	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/17/2025 14:37	67701	WERN_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/17/2025 14:38	52402	GRPA_T2	57	73	16	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
2/17/2025 14:38	52403	GRPA_T2	26	25	-1	0.73	0.48	-0.25	-0.53	-0.54	0	0	0	0	0	0
2/17/2025 14:40	44301	BEAV_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/17/2025 14:40	44302	BEAV_T2	14	7	-7	0.49	0.26	-0.23	0.28	0.29	0	0	0	0	0	0
2/17/2025 14:41	67401	WAKE_T2	0	0	0	0	0	0	-1.03	-1.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/17/2025 14:41	67402	WAKE_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/17/2025 14:42	44302	BEAV_T2	14	7	-7	0.49	0.26	-0.23	0.28	0.29	0	0	0	0	0	0
2/17/2025 14:42	44301	BEAV_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/17/2025 14:48	52402	GRPA_T2	46	76	30	0.63	0.67	0.04	0	0	0	0	0	0	0	0
2/17/2025 14:48	52403	GRPA_T2	24	20	-4	0.5	0.49	-0.01	-0.53	-0.54	0	0	0	0	0	0
2/17/2025 14:50	25801	SUTR_T2	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
2/17/2025 14:51	41902	REED_T1	0	3	3	0	0	0	0.35	0.31	1	1	0	900	900	0
2/17/2025 14:51	55101	WERT_T1	5	5	0	0.88	0	-0.88	-1.45	-1.36	2	2	0	1500	1500	0
2/17/2025 14:51	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 14:53	45501	DERR_T2	0	1	1	0	0	0	0.25	0.3	2	2	0	1800	1800	0
2/17/2025 14:55	44302	BEAV_T2	7	4	-3	0.26	0.35	0.09	0	0	0	0	0	0	0	0
2/17/2025 14:55	44301	BEAV_T2	1	1	0	1.4	0	-1.4	0	0	0	0	0	0	0	0
2/17/2025 14:56	44302	BEAV_T2	7	4	-3	0.26	0.35	0.09	0	0	0	0	0	0	0	0
2/17/2025 14:56	44301	BEAV_T2	1	1	0	1.4	0	-1.4	-0.52	-0.43	1	1	0	600	600	0
2/17/2025 14:57	46204	DANV_T2	40	113	73	0.39	0.47	0.08	0	0	0	0	0	0	0	0
2/17/2025 14:57	46206	DANV_T2	2	12	10	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/17/2025 14:57	46203	DANV_T2	8	12	4	0.69	0.48	-0.21	-0.84	-2.13	0	0	0	0	0	0
2/17/2025 15:00	51702	OBER_T1	2	2	0	3.25	2.95	-0.3	-1.96	-2.01	1	1	0	600	600	0
2/17/2025 15:01	23403	HONE_T1	12	0	-12	0.12	0	-0.12	0	0	0	0	0	0	0	0
2/17/2025 15:03	67605	WARW_T1	2	1	-1	0.4	0.3	-0.1	-1.04	-0.96	0	0	0	0	0	0
2/17/2025 15:03	44201	POIN_T1	38	65	27	0.17	0.21	0.04	-1.65	-1.85	2	2	0	2100	2100	0
2/17/2025 15:06	44201	POIN_T1	38	65	27	0.17	0.21	0.04	-5.56	-5.64	6	6	0	6300	6300	0
2/17/2025 15:07	44201	POIN_T1	38	65	27	0.17	0.21	0.04	-1.85	-1.88	2	2	0	2100	2100	0
2/17/2025 15:09	24204	PROV_T3	1	1	0	6	6	0	0	0	0	0	0	0	0	0
2/17/2025 15:09	24201	PROV_T3	6	5	-1	3.55	3.82	0.27	-1.33	-1.33	1	1	0	1200	1200	0
2/17/2025 15:11	47104	MARL_T1	0	0	0	0	0	0	-2.14	-2.11	0	0	0	0	0	0
2/17/2025 15:11	47101	MARL_T1	745	2054	1309	1.11	2.44	1.33	0	0	0	0	0	0	0	0
2/17/2025 15:13	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 15:13	53501	EVIL_T2	2	2	0	0.6	0.55	-0.05	-1.4	-1.47	2	2	0	1200	1200	0
2/17/2025 15:14	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 15:14	53501	EVIL_T2	2	2	0	0.6	0.55	-0.05	-1.4	-1.47	2	2	0	1200	1200	0
2/17/2025 15:15	53502	EVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/17/2025 15:15	53501	EVIL_T2	1	2	1	0.6	0.75	0.15	-1.4	-1.47	2	2	0	1200	1200	0
2/17/2025 15:19	47103	MARL_T2	574	404	-170	6.92	2.02	-4.9	-1.05	-1.06	0	0	0	0	0	0
2/17/2025 15:20	55002	NEWP_T1	3	3	0	0.2	0.27	0.07	-0.2	-0.2	0	0	0	0	0	0
2/17/2025 15:21	47101	MARL_T1	1920	1933	13	2.76	4.27	1.51	-0.36	-0.12	0	1	1	0	600	600
2/17/2025 15:21	59101	WALK_T2	0	0	0	0	0	0	0.75	0.66	0	0	0	0	0	0
2/17/2025 15:22	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/17/2025 15:22	65207	PRIN_T4	3	3	0	2.53	2.37	-0.16	0	0	0	0	0	0	0	0
2/17/2025 15:22	64101	REFR_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
2/17/2025 15:22	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 15:22	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 15:23	59101	WALK_T2	0	0	0	0	0	0	0.66	0.73	0	0	0	0	0	0
2/17/2025 15:23	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 15:24	47101	MARL_T1	1920	1933	13	2.76	4.27	1.51	-0.73	-0.24	2	0	-2	1200	0	-1200
2/17/2025 15:24	17802	GILB_T1	1	0	-1	0.2	0	-0.2	0.03	0.03	0	0	0	0	0	0
2/17/2025 15:24	43402	BENT_T1	0	0	0	0	0	0	-1.53	-1.54	2	2	0	1500	1500	0
2/17/2025 15:24	43401	BENT_T1	5	3	-2	0.92	0.5	-0.42	0	0	0	0	0	0	0	0
2/17/2025 15:25	43402	BENT_T1	0	0	0	0	0	0	-1.53	-1.54	2	2	0	1500	1500	0
2/17/2025 15:25	43401	BENT_T1	5	3	-2	0.92	0.5	-0.42	0	0	0	0	0	0	0	0
2/17/2025 15:25	59101	WALK_T2	0	0	0	0	0	0	0.66	0.73	0	0	0	0	0	0
2/17/2025 15:25	47101	MARL_T1	1920	1933	13	2.76	4.27	1.51	-0.36	-0.12	1	0	-1	600	0	-600
2/17/2025 15:26	47101	MARL_T1	1920	1933	13	2.76	4.27	1.51	-0.36	-0.12	1	0	-1	600	0	-600
2/17/2025 15:26	47103	MARL_T2	574	404	-170	6.92	2.02	-4.9	-1.06	-1.08	0	0	0	0	0	0
2/17/2025 15:27	44302	BEAV_T2	4	1	-3	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
2/17/2025 15:27	44301	BEAV_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 15:31	47101	MARL_T1	1928	1517	-411	4	4.2	0.2	-0.36	-0.12	1	0	-1	600	0	-600
2/17/2025 15:38	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 15:39	40501	CRES_T2	5	6	1	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
2/17/2025 15:42	44302	BEAV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/17/2025 15:42	44301	BEAV_T2	1	3	2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/17/2025 15:47	47101	MARL_T1	1513	1226	-287	4.28	2.67	-1.61	-0.12	-0.32	0	0	0	0	0	0
2/17/2025 15:52	45802	HEGI_T2	3	48	45	0.23	2.37	2.14	0.13	0.02	0	0	0	0	0	0
2/17/2025 15:52	44201	POIN_T1	55	85	30	0.17	0.21	0.04	-1.9	-1.97	2	2	0	2100	2100	0
2/17/2025 15:55	53903	HALI_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
2/17/2025 15:55	53902	HALI_T2	1	1	0	4.9	5	0.1	-0.86	-0.85	0	0	0	0	0	0
2/17/2025 15:56	52403	GRPA_T2	29	8	-21	0.7	1.25	0.55	-0.86	-0.79	0	0	0	0	0	0
2/17/2025 15:56	52402	GRPA_T2	72	39	-33	0.87	0.45	-0.42	0	0	0	0	0	0	0	0
2/17/2025 15:58	53903	HALI_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
2/17/2025 15:58	53902	HALI_T2	1	1	0	4.9	5	0.1	-0.86	-0.85	0	0	0	0	0	0
2/17/2025 16:00	40101	HUNT_T2	14	14	0	0.86	0.78	-0.08	-1.85	-1.84	0	0	0	0	0	0
2/17/2025 16:04	40101	HUNT_T2	14	14	0	0.86	0.78	-0.08	0	0	0	0	0	0	0	0
2/17/2025 16:08	42504	ALTA_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
2/17/2025 16:08	40501	CRES_T2	4	3	-1	0.18	0.2	0.02	0	0	0	0	0	0	0	0
2/17/2025 16:08	42503	ALTA_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
2/17/2025 16:17	62106	ELAN_T1	0	0	0	0	0	0	0.32	0.05	0	0	0	0	0	0
2/17/2025 16:18	54203	PENN_T1	19	19	0	0.69	0.61	-0.08	0	0	0	0	0	0	0	0
2/17/2025 16:18	54201	PENN_T1	14	9	-5	0.68	1.02	0.34	-2.78	-2.8	0	0	0	0	0	0
2/17/2025 16:20	12305	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 16:20	12304	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 16:20	42601	TUSC_T1	7	14	7	0.44	0.34	-0.1	-1.14	-1.12	2	2	0	1800	1800	0
2/17/2025 16:20	12301	LANA_T2	17	27	10	1.33	1.2	-0.13	0	0	0	0	0	0	0	0
2/17/2025 16:22	46301	ROHR_T1	1	1	0	4.8	4.6	-0.2	0	0	0	0	0	0	0	0
2/17/2025 16:22	54201	PENN_T1	14	9	-5	0.68	1.02	0.34	0	0	0	0	0	0	0	0
2/17/2025 16:22	54203	PENN_T1	19	19	0	0.69	0.61	-0.08	-0.01	-0.02	0	0	0	0	0	0
2/17/2025 16:22	46302	ROHR_T1	2	2	0	1.1	0.1	-1	0.25	0.28	0	0	0	0	0	0
2/17/2025 16:26	16101	BING_T2	0	20	20	0	0	0	0.5	0.48	0	0	0	0	0	0
2/17/2025 16:26	16102	BING_T2	1	1	0	5.9	6.3	0.4	0	0	0	0	0	0	0	0
2/17/2025 16:35	20602	GRWO_T2	13	0	-13	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/17/2025 16:35	20601	GRWO_T2	3	4	1	1.07	0.43	-0.64	0.29	0.34	0	0	0	0	0	0
2/17/2025 16:35	20603	GRWO_T2	19	18	-1	1.28	0.3	-0.98	0	0	0	0	0	0	0	0
2/17/2025 16:38	47401	PENS_T1	0	0	0	0	0	0	0.88	0.94	0	0	0	0	0	0
2/17/2025 16:38	24204	PROV_T3	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
2/17/2025 16:38	24201	PROV_T3	6	5	-1	3.43	3.96	0.53	-1.33	-1.29	1	1	0	1200	1200	0
2/17/2025 16:40	42701	AUGU_T1	0	7	7	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 16:48	20802	LOPO_T1	0	0	0	0	0	0	-0.94	-0.93	1	1	0	600	600	0
2/17/2025 16:48	20801	LOPO_T1	4	18	14	0.88	0.46	-0.42	0	0	0	0	0	0	0	0
2/17/2025 16:50	23401	HONE_T2	38	28	-10	1.59	2.61	1.02	0.4	0.44	0	0	0	0	0	0
2/17/2025 16:55	23401	HONE_T2	38	28	-10	1.59	2.61	1.02	0.44	0.38	0	0	0	0	0	0
2/17/2025 16:55	40501	CRES_T2	8	6	-2	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
2/17/2025 16:58	17802	GILB_T1	0	1	1	0	0.6	0.6	0.15	0.16	0	0	0	0	0	0
2/17/2025 17:06	20601	GRWO_T2	3	8	5	0.43	2.2	1.77	0	0	0	0	0	0	0	0
2/17/2025 17:06	20603	GRWO_T2	2	7	5	0.3	0.1	-0.2	-0.48	-0.45	1	1	0	900	900	0
2/17/2025 17:44	60103	COCA_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
2/17/2025 18:01	53601	DALM_T2	0	0	0	0	0	0	-1.01	-0.96	1	1	0	900	900	0
2/17/2025 18:03	66502	SMAN_T2	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0
2/17/2025 18:05	64402	LAND_T2	0	0	0	0	0	0	-0.46	-0.52	1	1	0	600	600	0
2/17/2025 18:06	65503	MOJO_T2	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
2/17/2025 18:08	52403	GRPA_T2	6	28	22	0.82	0.55	-0.27	0	0	0	0	0	0	0	0
2/17/2025 18:08	52401	GRPA_T2	0	1	1	0	0	0	-0.11	-0.12	0	0	0	0	0	0
2/17/2025 18:08	64101	REFR_T1	0	1	1	0	0	0	0.28	0.32	0	0	0	0	0	0
2/17/2025 18:08	52402	GRPA_T2	23	51	28	0.66	0.46	-0.2	0	0	0	0	0	0	0	0
2/17/2025 18:11	46004	BERW_T2	0	17	17	0	0.67	0.67	0	0	0	0	0	0	0	0
2/17/2025 18:11	46002	BERW_T2	0	0	0	0	0	0	-0.96	-0.93	1	1	0	900	900	0
2/17/2025 18:14	11101	EGYP_T1	12	0	-12	0.18	0	-0.18	0	0	0	0	0	0	0	0
2/17/2025 18:14	11103	EGYP_T1	0	1	1	0	0	0	-0.77	-0.76	0	0	0	0	0	0
2/17/2025 18:14	11104	EGYP_T1	4	2	-2	0.8	0	-0.8	0	0	0	0	0	0	0	0
2/17/2025 18:14	11102	EGYP_T1	10	10	0	0.79	0.72	-0.07	0	0	0	0	0	0	0	0
2/17/2025 18:16	64101	REFR_T1	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
2/17/2025 18:18	53501	EVIL_T2	1	1	0	1.5	0	-1.5	-1.27	-1.41	2	2	0	1200	1200	0
2/17/2025 18:18	46001	BERW_T1	0	5	5	0	0.4	0.4	0.43	0.45	0	0	0	0	0	0
2/17/2025 18:18	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
2/17/2025 18:18	53502	EVIL_T2	1	2	1	1.3	0.2	-1.1	0	0	0	0	0	0	0	0
2/17/2025 18:18	65503	MOJO_T2	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
2/17/2025 18:19	54203	PENN_T1	18	18	0	0.32	0.69	0.37	0	0	0	0	0	0	0	0
2/17/2025 18:19	54201	PENN_T1	4	17	13	1.23	0.54	-0.69	-1.41	-1.39	0	0	0	0	0	0
2/17/2025 18:20	40602	PIGR_T1	0	0	0	0	0	0	-1.57	-1.59	1	1	0	600	600	0
2/17/2025 18:20	60201	ATGL_T2	0	0	0	0	0	0	0.17	-0.1	0	1	1	0	300	300
2/17/2025 18:21	44301	BEAV_T2	2	10	8	1.3	0.56	-0.74	-0.58	-0.27	1	1	0	600	600	0
2/17/2025 18:25	46002	BERW_T2	0	0	0	0	0	0	-0.93	-0.88	1	1	0	900	900	0
2/17/2025 18:25	25801	SUTR_T2	11	24	13	2.47	1.99	-0.48	-0.47	-0.47	0	0	0	0	0	0
2/17/2025 18:25	46004	BERW_T2	3	20	17	0.67	0.72	0.05	0	0	0	0	0	0	0	0
2/17/2025 18:29	52401	GRPA_T2	1	2	1	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/17/2025 18:29	52402	GRPA_T2	49	28	-21	0.7	0.38	-0.32	0	0	0	0	0	0	0	0
2/17/2025 18:29	52403	GRPA_T2	13	27	14	0.54	0.93	0.39	-0.68	-0.7	0	0	0	0	0	0
2/17/2025 18:34	11104	EGYP_T1	1	6	5	2.6	1.65	-0.95	0.28	-0.24	1	1	0	900	900	0
2/17/2025 18:34	11102	EGYP_T1	10	14	4	1.21	0.77	-0.44	0	0	0	0	0	0	0	0
2/17/2025 18:34	11103	EGYP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/17/2025 18:35	66703	STRA_T1	0	0	0	0	0	0	-1.41	-1.4	0	0	0	0	0	0
2/17/2025 18:35	66701	STRA_T1	5	1	-4	0.64	0.1	-0.54	0	0	0	0	0	0	0	0
2/17/2025 18:38	53501	EVIL_T2	1	0	-1	0.6	0	-0.6	-1.39	-1.34	2	2	0	1200	1200	0
2/17/2025 18:38	53502	EVIL_T2	1	12	11	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/17/2025 18:42	52401	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 18:42	52403	GRPA_T2	27	7	-20	0.55	1.08	0.53	-0.7	-0.69	0	0	0	0	0	0
2/17/2025 18:42	52402	GRPA_T2	24	18	-6	0.46	0.51	0.05	0	0	0	0	0	0	0	0
2/17/2025 18:44	42701	AUGU_T1	19	23	4	0.74	0.54	-0.2	0	0	2	2	0	1800	1800	0
2/17/2025 18:46	46801	HEPB_T2	3	3	0	1	0.73	-0.27	-0.29	-0.28	0	0	0	0	0	0
2/17/2025 18:46	46803	HEPB_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/17/2025 18:51	44201	POIN_T1	0	0	0	0	0	0	-1.98	-1.99	2	2	0	2100	2100	0
2/17/2025 18:52	55101	WERT_T1	0	0	0	0	0	0	-1.79	-1.71	2	2	0	1500	1500	0
2/17/2025 19:00	53902	HALI_T2	1	1	0	4.4	4	-0.4	0	0	0	0	0	0	0	0
2/17/2025 19:00	53901	HALI_T2	87	87	0	4.7	4.33	-0.37	-0.81	-0.79	0	0	0	0	0	0
2/17/2025 19:01	42701	AUGU_T1	22	30	8	0.56	0.58	0.02	0	0	2	2	0	1800	1800	0
2/17/2025 19:07	40501	CRES_T2	59	116	57	0.42	0.4	-0.02	0	0	0	0	0	0	0	0
2/17/2025 19:09	40101	HUNT_T2	47	127	80	0.71	0.78	0.07	-1.79	-1.75	0	0	0	0	0	0
2/17/2025 19:15	44301	BEAV_T2	5	5	0	1.38	0.67	-0.71	0	0	0	0	0	0	0	0
2/17/2025 19:15	44302	BEAV_T2	5	5	0	1.46	0.72	-0.74	0	0	0	0	0	0	0	0
2/17/2025 19:16	44901	SCOT_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
2/17/2025 19:16	15201	SFAR_T1	0	0	0	0	0	0	-0.83	-0.78	2	2	0	1800	1800	0
2/17/2025 19:20	55001	NEWP_T1	0	0	0	0	0	0	-0.83	-0.85	1	1	0	600	600	0
2/17/2025 19:20	55002	NEWP_T1	2	3	1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
2/17/2025 19:26	62105	ELAN_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
2/17/2025 19:33	26703	HEML_T1	3	3	0	0.73	0.1	-0.63	-0.62	-0.62	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/17/2025 19:33	26701	HEML_T1	2	5	3	0.85	1.3	0.45	0	0	0	0	0	0	0	0
2/17/2025 19:42	46002	BERW_T2	0	0	0	0	0	0	-1.01	-0.98	1	1	0	900	900	0
2/17/2025 19:42	64401	LAND_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	600	600	0
2/17/2025 19:42	46004	BERW_T2	17	12	-5	0.66	0.83	0.17	0	0	0	0	0	0	0	0
2/17/2025 19:42	23301	JEFF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:43	20802	LOPO_T1	3	4	1	0.83	0.15	-0.68	-0.86	-0.89	1	1	0	600	600	0
2/17/2025 19:43	20801	LOPO_T1	17	30	13	0.81	0.68	-0.13	0	0	0	0	0	0	0	0
2/17/2025 19:44	22803	HAUT_T2	158	203	45	1.64	1.61	-0.03	0	0	0	0	0	0	0	0
2/17/2025 19:44	64401	LAND_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	600	600	0
2/17/2025 19:44	55105	WERT_T1	0	0	0	0	0	0	-0.31	-0.27	1	1	0	900	900	0
2/17/2025 19:44	22805	HAUT_T2	279	309	30	1.22	1.08	-0.14	0	0	0	0	0	0	0	0
2/17/2025 19:45	25402	LAHA_T2	472	509	37	2.24	2.27	0.03	-0.37	-0.36	0	0	0	0	0	0
2/17/2025 19:45	44201	POIN_T1	0	0	0	0	0	0	-2.01	-1.99	2	2	0	2100	2100	0
2/17/2025 19:45	28803	LAKE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:45	28805	LAKE_T1	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
2/17/2025 19:45	28801	LAKE_T1	329	313	-16	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
2/17/2025 19:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:46	47403	PENS_T1	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
2/17/2025 19:46	44201	POIN_T1	0	0	0	0	0	0	-2.01	-1.99	2	2	0	2100	2100	0
2/17/2025 19:46	40504	CRES_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 19:46	43402	BENT_T1	3	6	3	0.23	0	-0.23	-1.52	-0.89	2	1	-1	1500	900	-600
2/17/2025 19:46	20601	GRWO_T2	30	45	15	0.66	0.73	0.07	0.06	0.05	0	0	0	0	0	0
2/17/2025 19:46	62604	ENGL_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
2/17/2025 19:46	42002	MNVL_T2	1	1	0	9	8.7	-0.3	0	0	0	0	0	0	0	0
2/17/2025 19:46	46206	DANV_T2	94	72	-22	0.56	0.57	0.01	1.96	1.98	2	2	0	2100	2100	0
2/17/2025 19:46	20602	GRWO_T2	9	9	0	0.66	0.4	-0.26	0	0	0	0	0	0	0	0
2/17/2025 19:46	41802	GOCI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 19:46	41202	KENM_T2	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
2/17/2025 19:46	42701	AUGU_T1	36	6	-30	0.76	1.4	0.64	0	0	0	0	0	0	0	0
2/17/2025 19:46	43401	BENT_T1	19	1	-18	0.39	0	-0.39	0	0	0	0	0	0	0	0
2/17/2025 19:46	49804	UNIV_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/17/2025 19:46	16302	ALPA_T2	0	0	0	0	0	0	-0.6	-0.64	0	0	0	0	0	0
2/17/2025 19:46	16103	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 19:46	10801	CHHI_T1	37	47	10	0.68	0.54	-0.14	-1.9	-1.89	3	3	0	2100	2100	0
2/17/2025 19:46	40505	CRES_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
2/17/2025 19:46	20603	GRWO_T2	21	30	9	0.9	0.49	-0.41	0	0	0	0	0	0	0	0
2/17/2025 19:46	14403	SSLA_T1	6	6	0	0.8	0.78	-0.02	0	0	0	0	0	0	0	0
2/17/2025 19:46	47401	PENS_T1	0	7	7	0	0.1	0.1	-0.32	-0.34	0	0	0	0	0	0
2/17/2025 19:46	16101	BING_T2	0	0	0	0	0	0	0.64	0.67	0	0	0	0	0	0
2/17/2025 19:46	40503	CRES_T1	18	17	-1	0.51	0.52	0.01	0	0	0	0	0	0	0	0
2/17/2025 19:46	14402	SSLA_T1	12	12	0	1.17	0.61	-0.56	0	0	0	0	0	0	0	0
2/17/2025 19:46	62605	ENGL_T1	0	0	0	0	0	0	-2.1	-1.43	0	0	0	0	0	0
2/17/2025 19:46	42001	MNVL_T2	0	1	1	0	0	0	0.29	0.3	0	0	0	0	0	0
2/17/2025 19:46	49803	UNIV_T1	2	1	-1	3.7	6	2.3	-0.78	-0.81	0	0	0	0	0	0
2/17/2025 19:46	46204	DANV_T2	133	122	-11	1.25	0.83	-0.42	0	0	0	0	0	0	0	0
2/17/2025 19:46	14404	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:46	14401	SSLA_T1	0	13	13	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:46	46203	DANV_T2	19	26	7	0.76	0.71	-0.05	0	0	0	0	0	0	0	0
2/17/2025 19:46	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:46	40101	HUNT_T2	101	120	19	0.67	0.9	0.23	-1.79	-1.74	0	0	0	0	0	0
2/17/2025 19:47	67605	WARW_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/17/2025 19:47	25501	MADI_T1	496	534	38	1.52	1.51	-0.01	0	0	0	0	0	0	0	0
2/17/2025 19:47	29402	BELT_T1	5	5	0	1.2	5.6	4.4	0	0	0	0	0	0	0	0
2/17/2025 19:47	46206	DANV_T2	94	72	-22	0.56	0.57	0.01	0	0	0	0	0	0	0	0
2/17/2025 19:47	24201	PROV_T3	5	5	0	4.22	4.14	-0.08	-1.29	-1.27	1	1	0	1200	1200	0
2/17/2025 19:47	24901	WHHA_T1	4	7	3	0.4	0.4	0	0	0	0	0	0	0	0	0
2/17/2025 19:47	24902	WHHA_T1	47	42	-5	0.98	0.82	-0.16	0.17	0.18	0	0	0	0	0	0
2/17/2025 19:47	24204	PROV_T3	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
2/17/2025 19:47	25503	MADI_T1	13	27	14	0.43	0.48	0.05	0	0	0	0	0	0	0	0
2/17/2025 19:47	46204	DANV_T2	133	122	-11	1.25	0.83	-0.42	0	0	0	0	0	0	0	0
2/17/2025 19:47	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/17/2025 19:47	61506	EPET_T2	0	0	0	0	0	0	-0.97	-0.95	1	1	0	900	900	0
2/17/2025 19:47	46203	DANV_T2	19	26	7	0.76	0.71	-0.05	-1.41	-1.44	0	0	0	0	0	0
2/17/2025 19:47	60201	ATGL_T2	0	0	0	0	0	0	-0.25	-0.22	1	1	0	300	300	0
2/17/2025 19:47	47901	HRDG_T1	0	0	0	0	0	0	1.8	0.82	0	0	0	0	0	0
2/17/2025 19:47	17802	GILB_T1	0	1	1	0	0	0	0.28	0.29	0	0	0	0	0	0
2/17/2025 19:47	67603	WARW_T1	0	0	0	0	0	0	-0.47	-0.46	0	0	0	0	0	0
2/17/2025 19:47	60803	BUCK_T1	0	0	0	0	0	0	-0.47	-0.47	1	1	0	600	600	0
2/17/2025 19:47	60801	BUCK_T1	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
2/17/2025 19:48	11507	FREE_T2	256	266	10	0.82	0.78	-0.04	1.9	1.9	0	0	0	0	0	0
2/17/2025 19:48	64202	KINZ_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/17/2025 19:48	16102	BING_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
2/17/2025 19:48	64203	KINZ_T1	0	0	0	0	0	0	-1.64	-1.69	2	2	0	1800	1800	0
2/17/2025 19:48	44901	SCOT_T2	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
2/17/2025 19:48	65603	QVIL_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
2/17/2025 19:48	24902	WHHA_T1	47	42	-5	0.98	0.82	-0.16	0.17	0.18	0	0	0	0	0	0
2/17/2025 19:48	44201	POIN_T1	0	0	0	0	0	0	-2.01	-1.99	2	2	0	2100	2100	0
2/17/2025 19:48	14302	SUMN_T1	21	30	9	0.86	0.86	0	0.37	0.37	0	0	0	0	0	0
2/17/2025 19:48	46002	BERW_T2	0	0	0	0	0	0	-1.01	-0.98	1	1	0	900	900	0
2/17/2025 19:48	46004	BERW_T2	9	7	-2	1	0.68	-0.32	0	0	0	0	0	0	0	0
2/17/2025 19:48	14307	SUMN_T1	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
2/17/2025 19:48	16103	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 19:48	14303	SUMN_T1	12	12	0	2.43	2.33	-0.1	0	0	0	0	0	0	0	0
2/17/2025 19:48	44502	HAMI_T2	1	2	1	1.8	2.2	0.4	0.02	0.02	0	0	0	0	0	0
2/17/2025 19:48	64204	KINZ_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
2/17/2025 19:48	16302	ALPA_T2	0	0	0	0	0	0	-0.6	-0.64	0	0	0	0	0	0
2/17/2025 19:48	14301	SUMN_T1	29	21	-8	2.08	2.03	-0.05	0	0	0	0	0	0	0	0
2/17/2025 19:48	14308	SUMN_T1	47	81	34	2.45	2.53	0.08	0	0	0	0	0	0	0	0
2/17/2025 19:48	14305	SUMN_T1	1	1	0	1.5	1.3	-0.2	0	0	0	0	0	0	0	0
2/17/2025 19:48	44501	HAMI_T2	8	8	0	0.48	0	-0.48	0	0	0	0	0	0	0	0
2/17/2025 19:48	24901	WHHA_T1	4	7	3	0.4	0.4	0	0	0	0	0	0	0	0	0
2/17/2025 19:48	10805	CHHI_T2	7	7	0	1.76	1.81	0.05	-2.52	-2.67	2	2	0	1200	1200	0
2/17/2025 19:48	14306	SUMN_T1	79	87	8	1.02	0.92	-0.1	0	0	0	0	0	0	0	0
2/17/2025 19:48	42701	AUGU_T1	36	6	-30	0.76	1.4	0.64	0	0	0	0	0	0	0	0
2/17/2025 19:48	44801	EDAN_T2	1	3	2	1.3	0.75	-0.55	0	0	0	0	0	0	0	0
2/17/2025 19:48	62106	ELAN_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
2/17/2025 19:49	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:49	52402	GRPA_T2	10	89	79	0.39	0.4	0.01	0	0	0	0	0	0	0	0
2/17/2025 19:49	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:49	44501	HAMI_T2	8	8	0	0.48	0	-0.48	0	0	0	0	0	0	0	0
2/17/2025 19:49	46204	DANV_T2	133	122	-11	1.25	0.83	-0.42	0	0	0	0	0	0	0	0
2/17/2025 19:49	46602	LACR_T1	14	20	6	0.21	0.27	0.06	-0.56	-0.58	0	0	0	0	0	0
2/17/2025 19:49	60801	BUCK_T1	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
2/17/2025 19:49	44905	SCOT_T1	43	44	1	0.77	0.58	-0.19	0	0	0	0	0	0	0	0
2/17/2025 19:49	59101	WALK_T2	0	0	0	0	0	0	0.96	1.07	1	1	0	600	600	0
2/17/2025 19:49	52401	GRPA_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 19:49	52403	GRPA_T2	6	154	148	0.52	0.61	0.09	0	0	0	0	0	0	0	0
2/17/2025 19:49	46206	DANV_T2	94	72	-22	0.56	0.57	0.01	1.96	1.98	2	2	0	2100	2100	0
2/17/2025 19:49	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 19:49	44301	BEAV_T2	3	2	-1	0.67	0.4	-0.27	0	0	0	0	0	0	0	0
2/17/2025 19:49	53901	HALI_T2	209	209	0	5.35	5.03	-0.32	0	0	0	0	0	0	0	0
2/17/2025 19:49	52404	GRPA_T2	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
2/17/2025 19:49	44801	EDAN_T2	1	3	2	1.3	0.75	-0.55	0	0	0	0	0	0	0	0
2/17/2025 19:49	55002	NEWP_T1	2	2	0	0.7	0.7	0	-0.11	-0.14	0	0	0	0	0	0
2/17/2025 19:49	44904	SCOT_T1	0	0	0	0	0	0	0.86	0.81	0	0	0	0	0	0
2/17/2025 19:49	46203	DANV_T2	19	26	7	0.76	0.71	-0.05	-2.81	-2.87	0	0	0	0	0	0
2/17/2025 19:49	44502	HAMI_T2	1	2	1	1.8	2.2	0.4	0	0	0	0	0	0	0	0
2/17/2025 19:49	44802	EDAN_T2	0	0	0	0	0	0	-6.16	-6.13	0	0	0	0	0	0
2/17/2025 19:49	55001	NEWP_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:49	40501	CRES_T2	179	246	67	0.52	0.44	-0.08	0	0	0	0	0	0	0	0
2/17/2025 19:49	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:49	65503	MOJO_T2	0	0	0	0	0	0	-0.04	-0.01	0	0	0	0	0	0
2/17/2025 19:49	53902	HALI_T2	1	1	0	4.2	4.4	0.2	0	0	0	0	0	0	0	0
2/17/2025 19:49	44302	BEAV_T2	5	0	-5	1.1	0	-1.1	0.23	0.29	0	0	0	0	0	0
2/17/2025 19:50	53901	HALI_T2	209	209	0	5.35	5.03	-0.32	0	0	0	0	0	0	0	0
2/17/2025 19:50	14703	TREX_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:50	14702	TREX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:50	64902	MILL_T2	0	0	0	0	0	0	-1.25	-1.21	1	1	0	900	900	0
2/17/2025 19:50	43202	MVIL_T2	3	3	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/17/2025 19:50	24101	EHAZ_T1	115	99	-16	1.74	1.88	0.14	0	0	0	0	0	0	0	0
2/17/2025 19:50	14402	SSLA_T1	12	12	0	1.17	0.61	-0.56	0	0	0	0	0	0	0	0
2/17/2025 19:50	58402	MORO_T1	0	0	0	0	0	0	-1.13	-1.11	4	4	0	2850	2850	0
2/17/2025 19:50	53902	HALI_T2	1	1	0	4.2	4.4	0.2	-0.79	-0.75	0	0	0	0	0	0
2/17/2025 19:50	49804	UNIV_T1	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/17/2025 19:50	47802	MOCA_T2	1	1	0	0.7	0	-0.86	-0.87	0	0	0	0	0	0	0
2/17/2025 19:50	14403	SSLA_T1	6	6	0	0.8	0.78	-0.02	0	0	0	0	0	0	0	0
2/17/2025 19:50	60201	ATGL_T2	0	0	0	0	0	0	-0.25	-0.22	1	1	0	300	300	0
2/17/2025 19:50	46802	HEPB_T1	0	1	1	0	0	0	-0.11	-0.13	0	0	0	0	0	0
2/17/2025 19:50	14404	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:50	10801	CHHI_T1	37	47	10	0.68	0.54	-0.14	-1.9	-1.89	3	3	0	2100	2100	0
2/17/2025 19:50	14401	SSLA_T1	0	13	13	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:50	10401	LIGA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:50	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:50	66505	SMAN_T2	0	2	2	0	0.25	0.25	-0.2	-0.4	1	1	0	900	900	0
2/17/2025 19:50	67401	WAKE_T2	0	0	0	0	0	0	-1.09	-1.08	0	0	0	0	0	0
2/17/2025 19:50	17802	GILB_T1	0	1	1	0	0	0	0.28	0.29	0	0	0	0	0	0
2/17/2025 19:50	44801	EDAN_T2	1	3	2	1.3	0.75	-0.55	-0.33	-0.31	0	0	0	0	0	0
2/17/2025 19:50	49803	UNIV_T1	2	1	-1	3.7	6	2.3	0	0	0	0	0	0	0	0
2/17/2025 19:50	46001	BERW_T1	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
2/17/2025 19:50	67602	WARW_T2	0	0	0	0	0	0	-0.75	-0.72	4	4	0	3000	3000	0
2/17/2025 19:50	24102	EHAZ_T1	52	51	-1	1.46	1.53	0.07	-0.03	-0.12	0	0	0	0	0	0
2/17/2025 19:50	16103	BING_T2	0	1	1	0	0.1	0.1	-2.05	-2.05	2	2	0	1500	1500	0
2/17/2025 19:50	16302	ALPA_T2	0	0	0	0	0	0	-1.19	-1.28	0	0	0	0	0	0
2/17/2025 19:50	24103	EHAZ_T1	12	15	3	0.36	0.65	0.29	0	0	0	0	0	0	0	0
2/17/2025 19:50	43201	MVIL_T2	5	2	-3	0.32	0.15	-0.17	-0.27	-0.27	0	0	0	0	0	0
2/17/2025 19:50	24105	EHAZ_T1	50	43	-7	1.73	1.42	-0.31	0	0	0	0	0	0	0	0
2/17/2025 19:51	20601	GRWO_T2	30	45	15	0.66	0.73	0.07	0.05	0.05	0	0	0	0	0	0
2/17/2025 19:51	28805	LAKE_T1	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
2/17/2025 19:51	63601	LETO_T1	0	0	0	0	0	0	-0.05	-0.3	1	1	0	900	900	0
2/17/2025 19:51	20602	GRWO_T2	9	9	0	0.66	0.4	-0.26	0	0	0	0	0	0	0	0
2/17/2025 19:51	28803	LAKE_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:51	24204	PROV_T3	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
2/17/2025 19:51	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.2	-0.22	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/17/2025 19:51	44502	HAMI_T2	1	2	1	1.8	2.2	0.4	0	0	0	0	0	0	0	0
2/17/2025 19:51	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:51	64904	MILL_T1	0	0	0	0	0	0	-0.13	-0.19	0	0	0	0	0	0
2/17/2025 19:51	67702	WERN_T2	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
2/17/2025 19:51	46204	DANV_T2	133	122	-11	1.25	0.83	-0.42	0	0	0	0	0	0	0	0
2/17/2025 19:51	44501	HAMI_T2	8	8	0	0.48	0	-0.48	0	0	0	0	0	0	0	0
2/17/2025 19:51	28801	LAKE_T1	329	313	-16	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
2/17/2025 19:51	24201	PROV_T3	5	5	0	4.22	4.14	-0.08	-1.29	-1.27	1	1	0	1200	1200	0
2/17/2025 19:51	67703	WERN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/17/2025 19:51	40501	CRES_T2	179	246	67	0.52	0.44	-0.08	0	0	0	0	0	0	0	0
2/17/2025 19:51	67402	WAKE_T2	0	0	0	0	0	0	-0.27	-0.28	1	1	0	600	600	0
2/17/2025 19:51	17802	GILB_T1	0	1	1	0	0	0	0.28	0.29	0	0	0	0	0	0
2/17/2025 19:51	46206	DANV_T2	94	72	-22	0.56	0.57	0.01	0	0	0	0	0	0	0	0
2/17/2025 19:51	64101	REFR_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
2/17/2025 19:51	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
2/17/2025 19:51	20801	LOPO_T1	19	27	8	0.75	0.61	-0.14	0	0	0	0	0	0	0	0
2/17/2025 19:51	41602	CLEV_T1	7	5	-2	0.26	0	-0.26	0	0	0	0	0	0	0	0
2/17/2025 19:51	67605	WARW_T1	0	1	1	0	0.6	0.6	-0.93	-0.97	0	0	0	0	0	0
2/17/2025 19:51	20802	LOPO_T1	3	3	0	0.83	0	-0.83	-0.86	-0.89	1	1	0	600	600	0
2/17/2025 19:51	63602	LETO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:51	46203	DANV_T2	19	26	7	0.76	0.71	-0.05	-1.44	-1.45	0	0	0	0	0	0
2/17/2025 19:51	66203	SISP_T2	1	1	0	4.2	1.7	-2.5	-1.44	-1.45	2	2	0	1800	1800	0
2/17/2025 19:51	20603	GRWO_T2	21	30	9	0.9	0.49	-0.41	-0.39	-0.43	1	1	0	900	900	0
2/17/2025 19:52	41602	CLEV_T1	7	5	-2	0.26	0	-0.26	0	0	0	0	0	0	0	0
2/17/2025 19:52	55001	NEWP_T1	0	6	6	0	0	0	-0.84	-0.79	1	1	0	600	600	0
2/17/2025 19:52	11804	FRAN_T1	0	2	2	0	0	0	0.7	0.68	0	0	0	0	0	0
2/17/2025 19:52	11001	EGRE_T1	0	0	0	0	0	0	-0.2	-0.14	1	1	0	1200	1200	0
2/17/2025 19:52	47401	PENS_T1	0	7	7	0	0.1	0.1	-0.34	-0.18	0	0	0	0	0	0
2/17/2025 19:52	40501	CRES_T2	179	246	67	0.52	0.44	-0.08	0	0	0	0	0	0	0	0
2/17/2025 19:52	17804	GILB_T2	3	2	-1	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
2/17/2025 19:52	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
2/17/2025 19:52	17805	GILB_T2	0	0	0	0	0	0	-0.57	-0.55	0	0	0	0	0	0
2/17/2025 19:52	44501	HAMI_T2	8	8	0	0.48	0	-0.48	0	0	0	0	0	0	0	0
2/17/2025 19:52	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:52	64902	MILL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:52	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	1	1	0	900	900
2/17/2025 19:52	53902	HALI_T2	1	1	0	4.2	4.4	0.2	-0.75	-0.81	0	0	0	0	0	0
2/17/2025 19:52	55101	WERT_T1	0	0	0	0	0	0	-3.36	-3.52	4	4	0	3000	3000	0
2/17/2025 19:52	44502	HAMI_T2	1	2	1	1.8	2.2	0.4	0	0	0	0	0	0	0	0
2/17/2025 19:52	54203	PENN_T1	18	18	0	0.48	0.56	0.08	0.03	0.05	0	0	0	0	0	0
2/17/2025 19:52	12304	LANA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/17/2025 19:52	54201	PENN_T1	5	9	4	1.3	0.86	-0.44	0	0	0	0	0	0	0	0
2/17/2025 19:52	41802	GOCI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 19:52	40101	HUNT_T2	101	120	19	0.67	0.9	0.23	-1.74	-1.8	0	0	0	0	0	0
2/17/2025 19:52	42701	AUGU_T1	36	6	-30	0.76	1.4	0.64	0	0	2	2	0	1800	1800	0
2/17/2025 19:52	52404	GRPA_T2	0	0	0	0	0	0	-0.18	-0.16	0	0	0	0	0	0
2/17/2025 19:52	45502	DERR_T2	81	103	22	0.81	0.63	-0.18	0	0	0	0	0	0	0	0
2/17/2025 19:52	12301	LANA_T2	3	3	0	0.67	0.65	-0.02	0	0	0	0	0	0	0	0
2/17/2025 19:52	16103	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 19:52	12305	LANA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:52	52403	GRPA_T2	6	154	148	0.52	0.61	0.09	0	0	0	0	0	0	0	0
2/17/2025 19:52	53901	HALI_T2	209	209	0	5.35	5.03	-0.32	0	0	0	0	0	0	0	0
2/17/2025 19:52	25503	MADI_T1	13	27	14	0.43	0.48	0.05	0	0	0	0	0	0	0	0
2/17/2025 19:52	45501	DERR_T2	28	33	5	0.6	0.55	-0.05	2.46	2.58	8	8	0	7200	7200	0
2/17/2025 19:52	52401	GRPA_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 19:52	47403	PENS_T1	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
2/17/2025 19:52	44802	EDAN_T2	0	0	0	0	0	0	-2.04	-2.07	0	0	0	0	0	0
2/17/2025 19:52	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
2/17/2025 19:52	44801	EDAN_T2	1	3	2	1.3	0.75	-0.55	-0.31	-0.32	0	0	0	0	0	0
2/17/2025 19:52	25501	MADI_T1	496	534	38	1.52	1.51	-0.01	0	0	1	1	0	600	600	0
2/17/2025 19:52	55002	NEWP_T1	2	2	0	0.7	0.7	0	-0.14	-0.13	0	0	0	0	0	0
2/17/2025 19:52	52402	GRPA_T2	10	89	79	0.39	0.4	0.01	0	0	0	0	0	0	0	0
2/17/2025 19:52	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:52	12302	LANA_T2	7	5	-2	0.93	0.3	-0.63	0	0	0	0	0	0	0	0
2/17/2025 19:53	52404	GRPA_T2	0	0	0	0	0	0	-0.18	-0.16	0	0	0	0	0	0
2/17/2025 19:53	43401	BENT_T1	19	1	-18	0.39	0	-0.39	0	0	0	0	0	0	0	0
2/17/2025 19:53	52401	GRPA_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 19:53	63804	HEMP_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
2/17/2025 19:53	54203	PENN_T1	18	18	0	0.48	0.56	0.08	0	0	0	0	0	0	0	0
2/17/2025 19:53	65601	QVIL_T2	0	0	0	0	0	0	-0.98	-0.98	1	1	0	900	900	0
2/17/2025 19:53	66502	SMAN_T2	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
2/17/2025 19:53	45502	DERR_T2	81	103	22	0.81	0.63	-0.18	0	0	0	0	0	0	0	0
2/17/2025 19:53	41602	CLEV_T1	7	5	-2	0.26	0	-0.26	0	0	1	1	0	600	600	0
2/17/2025 19:53	46204	DANV_T2	133	122	-11	1.25	0.83	-0.42	0	0	0	0	0	0	0	0
2/17/2025 19:53	42902	MIDD_T2	29	29	0	1.51	1.1	-0.41	0	0	0	0	0	0	0	0
2/17/2025 19:53	55001	NEWP_T1	0	6	6	0	0	0	-0.84	-0.79	1	1	0	600	600	0
2/17/2025 19:53	43402	BENT_T1	3	6	3	0.23	0	-0.23	-0.89	-0.88	1	1	0	900	900	0
2/17/2025 19:53	46301	ROHR_T1	3	2	-1	2	4.5	2.5	0.3	0.3	0	0	0	0	0	0
2/17/2025 19:53	42501	ALTA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:53	60803	BUCK_T1	0	0	0	0	0	0	-1.41	-1.41	3	3	0	1800	1800	0
2/17/2025 19:53	46203	DANV_T2	19	26	7	0.76	0.71	-0.05	-2.87	-2.9	0	0	0	0	0	0
2/17/2025 19:53	46302	ROHR_T1	2	5	3	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/17/2025 19:53	63802	HEMP_T1	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
2/17/2025 19:53	59302	MCAL_T1	0	0	0	0	0	0	-0.66	-0.66	1	1	0	600	600	0
2/17/2025 19:53	59301	MCAL_T1	2	2	0	0.45	0.65	0.2	0	0	0	0	0	0	0	0
2/17/2025 19:53	17802	GILB_T1	0	1	1	0	0	0	0.29	0.29	0	0	0	0	0	0
2/17/2025 19:53	66703	STRA_T1	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
2/17/2025 19:53	42503	ALTA_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
2/17/2025 19:53	52403	GRPA_T2	6	154	148	0.52	0.61	0.09	-0.79	-0.12	0	0	0	0	0	0
2/17/2025 19:53	60801	BUCK_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
2/17/2025 19:53	45501	DERR_T2	28	33	5	0.6	0.55	-0.05	0.62	0.64	2	2	0	1800	1800	0
2/17/2025 19:53	55002	NEWP_T1	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/17/2025 19:53	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:53	66505	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/17/2025 19:53	52402	GRPA_T2	10	89	79	0.39	0.4	0.01	0	0	0	0	0	0	0	0
2/17/2025 19:53	44902	SCOT_T2	0	0	0	0	0	0	-0.89	-0.88	0	0	0	0	0	0
2/17/2025 19:53	66701	STRA_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 19:53	54201	PENN_T1	5	9	4	1.3	0.86	-0.44	-1.41	-1.39	0	0	0	0	0	0
2/17/2025 19:53	46206	DANV_T2	94	72	-22	0.56	0.57	0.01	3.95	3.95	4	4	0	4200	4200	0
2/17/2025 19:53	55101	WERT_T1	0	0	0	0	0	0	-1.68	-1.76	2	2	0	1500	1500	0
2/17/2025 19:53	42901	MIDD_T2	3	2	-1	0.47	0	-0.47	0	0	0	0	0	0	0	0
2/17/2025 19:53	42903	MIDD_T2	0	0	0	0	0	0	-1.4	-1.43	1	1	0	1200	1200	0
2/17/2025 19:54	16103	BING_T2	0	1	1	0	0.1	0.1	-2.05	-2.01	2	2	0	1500	1500	0
2/17/2025 19:54	20602	GRWO_T2	9	9	0	0.66	0.4	-0.26	0	0	0	0	0	0	0	0
2/17/2025 19:54	20603	GRWO_T2	21	30	9	0.9	0.49	-0.41	0	0	0	0	0	0	0	0
2/17/2025 19:54	67402	WAKE_T2	0	0	0	0	0	0	-0.27	-0.28	1	1	0	600	600	0
2/17/2025 19:54	46803	HEPB_T2	1	1	0	0.2	0.3	0.1	0.55	0.53	0	0	0	0	0	0
2/17/2025 19:54	44502	HAMI_T2	1	2	1	1.8	2.2	0.4	0	0	0	0	0	0	0	0
2/17/2025 19:54	59101	WALK_T2	0	0	0	0	0	0	1.07	0.55	1	1	0	600	600	0
2/17/2025 19:54	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:54	58102	NEKI_T1	1	1	0	0.8	1	0.2	-0.98	-1	1	1	0	1200	1200	0
2/17/2025 19:54	52403	GRPA_T2	6	154	148	0.52	0.61	0.09	0	0	0	0	0	0	0	0
2/17/2025 19:54	41602	CLEV_T1	7	5	-2	0.26	0	-0.26	0	0	0	0	0	0	0	0
2/17/2025 19:54	47101	MARL_T1	216	1178	962	1.21	1.09	-0.12	0	0	0	0	0	0	0	0
2/17/2025 19:54	51702	OBER_T1	2	2	0	2.45	2.45	0	-2.03	-2.06	1	1	0	600	600	0
2/17/2025 19:54	15203	SFAR_T2	0	0	0	0	0	0	-1.16	-1.17	0	0	0	0	0	0
2/17/2025 19:54	67602	WARW_T2	0	0	0	0	0	0	-0.36	-0.34	2	2	0	1500	1500	0
2/17/2025 19:54	44501	HAMI_T2	8	8	0	0.48	0	-0.48	0	0	0	0	0	0	0	0
2/17/2025 19:54	20601	GRWO_T2	30	45	15	0.66	0.73	0.07	0	0	0	0	0	0	0	0
2/17/2025 19:54	64902	MILL_T2	0	0	0	0	0	0	-1.21	-1.27	1	1	0	900	900	0
2/17/2025 19:54	52402	GRPA_T2	10	89	79	0.39	0.4	0.01	0	0	0	0	0	0	0	0
2/17/2025 19:54	17002	RIRO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:54	40501	CRES_T2	179	246	67	0.52	0.44	-0.08	0	0	0	0	0	0	0	0
2/17/2025 19:54	11102	EGYP_T1	10	13	3	1.53	0.9	-0.63	0	0	0	0	0	0	0	0
2/17/2025 19:54	59102	WALK_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 19:54	52401	GRPA_T2	0	5	5	0	0.3	0.3	-0.31	-0.23	0	0	0	0	0	0
2/17/2025 19:54	42701	AUGU_T1	36	6	-30	0.76	1.4	0.64	0	0	2	2	0	1800	1800	0
2/17/2025 19:54	66505	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/17/2025 19:54	60801	BUCK_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
2/17/2025 19:54	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:54	53901	HALI_T2	209	209	0	5.35	5.03	-0.32	0	0	0	0	0	0	0	0
2/17/2025 19:54	53902	HALI_T2	1	1	0	4.2	4.4	0.2	-1.5	-1.62	0	0	0	0	0	0
2/17/2025 19:54	53501	EVIL_T2	2	1	-1	0.1	0.4	0.3	-1.44	-1.42	2	2	0	1200	1200	0
2/17/2025 19:54	46801	HEPB_T2	3	12	9	0.63	0.27	-0.36	0	0	0	0	0	0	0	0
2/17/2025 19:54	44201	POIN_T1	0	0	0	0	0	0	-1.99	-2.06	2	2	0	2100	2100	0
2/17/2025 19:54	47104	MARL_T1	0	0	0	0	0	0	2.08	2.1	0	0	0	0	0	0
2/17/2025 19:54	11101	EGYP_T1	0	1	1	0	0	0	-0.64	-0.62	1	1	0	1200	1200	0
2/17/2025 19:54	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:54	11104	EGYP_T1	9	19	10	0.49	0.42	-0.07	0	0	0	0	0	0	0	0
2/17/2025 19:54	10805	CHHI_T2	7	7	0	1.76	1.81	0.05	-1.34	-1.22	1	1	0	600	600	0
2/17/2025 19:54	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:55	66505	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/17/2025 19:55	46206	DANV_T2	94	72	-22	0.56	0.57	0.01	0	0	0	0	0	0	0	0
2/17/2025 19:55	58401	MORO_T1	0	0	0	0	0	0	-0.89	-0.94	1	1	0	600	600	0
2/17/2025 19:55	66504	SMAN_T2	0	0	0	0	0	0	-1.38	-1.4	1	1	0	1200	1200	0
2/17/2025 19:55	44801	EDAN_T2	1	3	2	1.3	0.75	-0.55	0	0	0	0	0	0	0	0
2/17/2025 19:55	55001	NEWP_T1	0	6	6	0	0	0	-0.84	-0.79	1	1	0	600	600	0
2/17/2025 19:55	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	2	2	0	1800	1800
2/17/2025 19:55	40101	HUNT_T2	101	120	19	0.67	0.9	0.23	0	0	0	0	0	0	0	0
2/17/2025 19:55	61504	EPET_T2	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
2/17/2025 19:55	55002	NEWP_T1	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/17/2025 19:55	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/17/2025 19:55	53501	EVIL_T2	2	1	-1	0.1	0.4	0.3	-1.44	-1.42	2	2	0	1200	1200	0
2/17/2025 19:55	41802	GOCI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 19:55	64101	REFR_T1	0	0	0	0	0	0	1.27	1.27	0	0	0	0	0	0
2/17/2025 19:55	60103	COCA_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
2/17/2025 19:55	52403	GRPA_T2	6	154	148	0.52	0.61	0.09	0	0	0	0	0	0	0	0
2/17/2025 19:55	53901	HALI_T2	209	209	0	5.35	5.03	-0.32	-0.78	-0.8	0	0	0	0	0	0
2/17/2025 19:55	52401	GRPA_T2	0	5	5	0	0.3	0.3	-0.31	-0.23	0	0	0	0	0	0
2/17/2025 19:55	46002	BERW_T2	0	0	0	0	0	0	-0.98	-0.99	1	1	0	900	900	0
2/17/2025 19:55	52102	MEIS_T1	242	238	-4	2.62	2.41	-0.21	0	0	1	1	0	450	450	0
2/17/2025 19:55	46204	DANV_T2	133	122	-11	1.25	0.83	-0.42	0	0	0	0	0	0	0	0
2/17/2025 19:55	66701	STRA_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/17/2025 19:55	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:55	45501	DERR_T2	28	33	5	0.6	0.55	-0.05	0.62	0.64	2	2	0	1800	1800	0
2/17/2025 19:55	67605	WARW_T1	0	1	1	0	0.6	0.6	-0.93	-0.97	0	0	0	0	0	0
2/17/2025 19:55	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:55	41903	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/17/2025 19:55	42701	AUGU_T1	36	6	-30	0.76	1.4	0.64	0	0	2	2	0	1800	1800	0
2/17/2025 19:55	45802	HEGI_T2	48	47	-1	1.17	1.65	0.48	0	0	0	0	0	0	0	0
2/17/2025 19:55	53902	HALI_T2	1	1	0	4.2	4.4	0.2	0	0	0	0	0	0	0	0
2/17/2025 19:55	44905	SCOT_T1	43	44	1	0.77	0.58	-0.19	0	0	0	0	0	0	0	0
2/17/2025 19:55	46004	BERW_T2	9	7	-2	1	0.68	-0.32	-0.33	-0.32	0	0	0	0	0	0
2/17/2025 19:55	64902	MILL_T2	0	0	0	0	0	0	-1.21	-1.27	1	1	0	900	900	0
2/17/2025 19:55	46203	DANV_T2	19	26	7	0.76	0.71	-0.05	-1.44	-1.45	0	0	0	0	0	0
2/17/2025 19:55	52402	GRPA_T2	10	89	79	0.39	0.4	0.01	0	0	0	0	0	0	0	0
2/17/2025 19:55	46602	LACR_T1	14	20	6	0.21	0.27	0.06	-0.58	-0.54	0	0	0	0	0	0
2/17/2025 19:55	45502	DERR_T2	81	103	22	0.81	0.63	-0.18	0	0	0	0	0	0	0	0
2/17/2025 19:55	41902	REED_T1	16	12	-4	0.51	0.47	-0.04	-0.59	-0.58	1	1	0	900	900	0
2/17/2025 19:55	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:55	67402	WAKE_T2	0	0	0	0	0	0	-0.27	-0.28	1	1	0	600	600	0
2/17/2025 19:56	44905	SCOT_T1	43	44	1	0.77	0.58	-0.19	0	0	0	0	0	0	0	0
2/17/2025 19:56	52102	MEIS_T1	242	238	-4	2.62	2.41	-0.21	0	0	0	0	0	0	0	0
2/17/2025 19:56	46301	ROHR_T1	3	2	-1	2	4.5	2.5	0	0	0	0	0	0	0	0
2/17/2025 19:56	46203	DANV_T2	19	26	7	0.76	0.71	-0.05	0	0	0	0	0	0	0	0
2/17/2025 19:56	14402	SSLA_T1	12	12	0	1.17	0.61	-0.56	0	0	0	0	0	0	0	0
2/17/2025 19:56	10801	CHHI_T1	37	47	10	0.68	0.54	-0.14	-1.89	-1.9	3	3	0	2100	2100	0
2/17/2025 19:56	46001	BERW_T1	0	0	0	0	0	0	0.45	0.63	0	0	0	0	0	0
2/17/2025 19:56	45501	DERR_T2	28	33	5	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
2/17/2025 19:56	41902	REED_T1	16	12	-4	0.51	0.47	-0.04	-0.59	-0.58	1	1	0	900	900	0
2/17/2025 19:56	61502	EPET_T1	0	0	0	0	0	0	-2.26	-2.31	0	0	0	0	0	0
2/17/2025 19:56	61803	EELI_T2	0	0	0	0	0	0	0.1	0.09	1	1	0	600	600	0
2/17/2025 19:56	14403	SSLA_T1	6	6	0	0.8	0.78	-0.02	-0.21	-0.22	2	2	0	1200	1200	0
2/17/2025 19:56	52403	GRPA_T2	6	154	148	0.52	0.61	0.09	0	0	0	0	0	0	0	0
2/17/2025 19:56	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	1	1	0	900	900
2/17/2025 19:56	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/17/2025 19:56	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:56	41903	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/17/2025 19:56	46302	ROHR_T1	2	5	3	0.4	0.5	0.1	0.32	0.3	0	0	0	0	0	0
2/17/2025 19:56	14404	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:56	40501	CRES_T2	179	246	67	0.52	0.44	-0.08	0	0	0	0	0	0	0	0
2/17/2025 19:56	67203	TEHI_T1	0	0	0	0	0	0	2.69	2.65	2	2	0	1500	1500	0
2/17/2025 19:56	41802	GOCI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 19:56	67401	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:56	60201	ATGL_T2	0	0	0	0	0	0	-0.22	-0.19	1	1	0	300	300	0
2/17/2025 19:56	46004	BERW_T2	9	7	-2	1	0.68	-0.32	0	0	0	0	0	0	0	0
2/17/2025 19:56	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:56	46204	DANV_T2	133	122	-11	1.25	0.83	-0.42	0	0	0	0	0	0	0	0
2/17/2025 19:56	46206	DANV_T2	94	72	-22	0.56	0.57	0.01	1.98	1.97	2	2	0	2100	2100	0
2/17/2025 19:56	14401	SSLA_T1	0	13	13	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:56	61001	DONV_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
2/17/2025 19:56	67605	WARW_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/17/2025 19:56	53501	EVIL_T2	2	1	-1	0.1	0.4	0.3	-1.44	-1.42	2	2	0	1200	1200	0
2/17/2025 19:56	52101	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:56	45502	DERR_T2	81	103	22	0.81	0.63	-0.18	-0.51	-0.51	0	0	0	0	0	0
2/17/2025 19:56	44201	POIN_T1	0	0	0	0	0	0	-1.99	-2.06	2	2	0	2100	2100	0
2/17/2025 19:56	46002	BERW_T2	0	0	0	0	0	0	-0.98	-0.99	1	1	0	900	900	0
2/17/2025 19:56	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.2	-0.22	1	1	0	900	900	0
2/17/2025 19:56	52401	GRPA_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 19:56	60801	BUCK_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
2/17/2025 19:56	42601	TUSC_T1	28	21	-7	0.68	0.38	-0.3	-1.01	-1.1	2	2	0	1800	1800	0
2/17/2025 19:56	52402	GRPA_T2	10	89	79	0.39	0.4	0.01	0	0	0	0	0	0	0	0
2/17/2025 19:56	42701	AUGU_T1	36	6	-30	0.76	1.4	0.64	0	0	0	0	0	0	0	0
2/17/2025 19:56	18001	ZION_T1	2	2	0	7.8	7.9	0.1	0	0	0	0	0	0	0	0
2/17/2025 19:57	42701	AUGU_T1	36	6	-30	0.76	1.4	0.64	0	0	4	4	0	3600	3600	0
2/17/2025 19:57	44201	POIN_T1	0	0	0	0	0	0	-3.99	-4.13	4	4	0	4200	4200	0
2/17/2025 19:57	55001	NEWP_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:57	46301	ROHR_T1	3	2	-1	2	4.5	2.5	0	0	0	0	0	0	0	0
2/17/2025 19:57	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.2	-0.22	1	1	0	900	900	0
2/17/2025 19:57	52401	GRPA_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 19:57	46302	ROHR_T1	2	5	3	0.4	0.5	0.1	0.32	0.3	0	0	0	0	0	0
2/17/2025 19:57	64204	KINZ_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
2/17/2025 19:57	45502	DERR_T2	81	103	22	0.81	0.63	-0.18	0	0	0	0	0	0	0	0
2/17/2025 19:57	52102	MEIS_T1	242	238	-4	2.62	2.41	-0.21	0	0	1	1	0	450	450	0
2/17/2025 19:57	65603	QVIL_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
2/17/2025 19:57	60803	BUCK_T1	0	0	0	0	0	0	-0.47	-0.47	1	1	0	600	600	0
2/17/2025 19:57	45501	DERR_T2	28	33	5	0.6	0.55	-0.05	0.62	0.64	2	2	0	1800	1800	0
2/17/2025 19:57	44801	EDAN_T2	1	3	2	1.3	0.75	-0.55	0	0	0	0	0	0	0	0
2/17/2025 19:57	64202	KINZ_T1	1	1	0	0.4	0	-0.4	0.83	0.83	0	0	0	0	0	0
2/17/2025 19:57	52403	GRPA_T2	6	154	148	0.52	0.61	0.09	-0.79	-0.12	0	0	0	0	0	0
2/17/2025 19:57	46004	BERW_T2	9	7	-2	1	0.68	-0.32	-0.33	-0.32	0	0	0	0	0	0
2/17/2025 19:57	55101	WERT_T1	0	0	0	0	0	0	-1.68	-1.76	2	2	0	1500	1500	0
2/17/2025 19:57	53501	EVIL_T2	2	1	-1	0.1	0.4	0.3	-1.44	-1.42	2	2	0	1200	1200	0
2/17/2025 19:57	52402	GRPA_T2	10	89	79	0.39	0.4	0.01	0	0	0	0	0	0	0	0
2/17/2025 19:57	66203	SISP_T2	1	1	0	4.2	1.7	-2.5	0	0	0	0	0	0	0	0
2/17/2025 19:57	55002	NEWP_T1	2	2	0	0.7	0.7	0	-0.14	-0.13	0	0	0	0	0	0
2/17/2025 19:57	44802	EDAN_T2	0	0	0	0	0	0	-2.04	-2.07	0	0	0	0	0	0
2/17/2025 19:58	55002	NEWP_T1	2	2	0	0.7	0.7	0	-0.14	-0.13	0	0	0	0	0	0
2/17/2025 19:58	52402	GRPA_T2	10	89	79	0.39	0.4	0.01	0	0	0	0	0	0	0	0
2/17/2025 19:58	66505	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/17/2025 19:58	52401	GRPA_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
2/17/2025 19:58	58201	NEWV_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
2/17/2025 19:58	66903	SHIL_T2	0	0	0	0	0	0	-3.8	-3.8	0	0	0	0	0	0
2/17/2025 19:58	47401	PENS_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 19:58	64101	REFR_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
2/17/2025 19:58	66703	STRA_T1	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
2/17/2025 19:58	58202	NEWV_T1	0	0	0	0	0	0	0.01	-0.07	0	0	0	0	0	0
2/17/2025 19:58	66701	STRA_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 19:58	53901	HALI_T2	209	209	0	5.35	5.03	-0.32	0	0	0	0	0	0	0	0
2/17/2025 19:58	47403	PENS_T1	1	1	0	1.9	2	0.1	0	0	0	0	0	0	0	0
2/17/2025 19:58	53902	HALI_T2	1	1	0	4.2	4.4	0.2	-0.75	-0.81	0	0	0	0	0	0
2/17/2025 19:58	58401	MORO_T1	0	0	0	0	0	0	-0.89	-0.94	1	1	0	600	600	0
2/17/2025 19:58	55001	NEWP_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:58	66504	SMAN_T2	0	0	0	0	0	0	-1.38	-1.4	1	1	0	1200	1200	0
2/17/2025 19:58	67201	TEHI_T1	0	0	0	0	0	0	-0.59	-0.51	1	1	0	900	900	0
2/17/2025 19:58	52403	GRPA_T2	6	154	148	0.52	0.61	0.09	-0.79	-0.12	0	0	0	0	0	0
2/17/2025 19:58	67605	WARW_T1	0	1	1	0	0.6	0.6	-0.93	-0.97	0	0	0	0	0	0
2/17/2025 19:58	45802	HEGI_T2	48	47	-1	1.17	1.65	0.48	-0.02	-0.04	0	0	0	0	0	0
2/17/2025 19:58	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:59	20601	GRWO_T2	30	45	15	0.66	0.73	0.07	0.05	0.05	0	0	0	0	0	0
2/17/2025 19:59	46004	BERW_T2	9	7	-2	1	0.68	-0.32	-0.33	-0.32	0	0	0	0	0	0
2/17/2025 19:59	42701	AUGU_T1	36	6	-30	0.76	1.4	0.64	0	0	0	0	0	0	0	0
2/17/2025 19:59	47203	FAXO_T2	0	0	0	0	0	0	-2.32	-2.34	1	1	0	1200	1200	0
2/17/2025 19:59	67605	WARW_T1	0	1	1	0	0.6	0.6	-0.93	-0.97	0	0	0	0	0	0
2/17/2025 19:59	55101	WERT_T1	0	0	0	0	0	0	-1.68	-1.76	2	2	0	1500	1500	0
2/17/2025 19:59	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 19:59	46206	DANV_T2	94	72	-22	0.56	0.57	0.01	0	0	0	0	0	0	0	0
2/17/2025 19:59	20602	GRWO_T2	9	9	0	0.66	0.4	-0.26	0	0	0	0	0	0	0	0
2/17/2025 19:59	65603	QVIL_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
2/17/2025 19:59	64101	REFR_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
2/17/2025 19:59	66505	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/17/2025 19:59	47802	MOCA_T2	1	1	0	0.7	0.7	0	-0.87	-0.85	0	0	0	0	0	0
2/17/2025 19:59	43101	SMIL_T2	2	2	0	1.55	0	-1.55	-1.76	-1.71	2	2	0	600	600	0
2/17/2025 19:59	40501	CRES_T2	179	246	67	0.52	0.44	-0.08	0	0	0	0	0	0	0	0
2/17/2025 19:59	46203	DANV_T2	19	26	7	0.76	0.71	-0.05	-1.44	-1.45	0	0	0	0	0	0
2/17/2025 19:59	44801	EDAN_T2	1	3	2	1.3	0.75	-0.55	0	0	0	0	0	0	0	0
2/17/2025 19:59	46204	DANV_T2	133	122	-11	1.25	0.83	-0.42	0	0	0	0	0	0	0	0
2/17/2025 19:59	53501	EVIL_T2	2	1	-1	0.1	0.4	0.3	-1.44	-1.42	2	2	0	1200	1200	0
2/17/2025 19:59	43104	SMIL_T2	2	1	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/17/2025 19:59	20603	GRWO_T2	21	30	9	0.9	0.49	-0.41	0	0	0	0	0	0	0	0
2/17/2025 19:59	44802	EDAN_T2	0	0	0	0	0	0	-2.04	-2.07	0	0	0	0	0	0
2/17/2025 20:00	58401	MORO_T1	0	0	0	0	0	0	-0.89	-0.94	1	1	0	600	600	0
2/17/2025 20:00	55101	WERT_T1	0	0	0	0	0	0	-1.68	-1.76	2	2	0	1500	1500	0
2/17/2025 20:00	41902	REED_T1	9	10	1	0.5	0.61	0.11	-0.59	-0.58	1	1	0	900	900	0
2/17/2025 20:00	40501	CRES_T2	233	107	-126	0.46	0.38	-0.08	0	0	0	0	0	0	0	0
2/17/2025 20:00	64101	REFR_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
2/17/2025 20:00	47802	MOCA_T2	1	1	0	0.8	0.7	-0.1	-0.87	-0.85	0	0	0	0	0	0
2/17/2025 20:00	53501	EVIL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
2/17/2025 20:00	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.2	-0.22	1	1	0	900	900	0
2/17/2025 20:00	53502	EVIL_T2	0	9	9	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 20:00	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 20:00	44301	BEAV_T2	2	2	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
2/17/2025 20:00	67402	WAKE_T2	0	0	0	0	0	0	-0.27	-0.28	1	1	0	600	600	0
2/17/2025 20:00	41903	REED_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/17/2025 20:01	44302	BEAV_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
2/17/2025 20:01	44905	SCOT_T1	43	45	2	0.63	0.45	-0.18	0	0	0	0	0	0	0	0
2/17/2025 20:01	44301	BEAV_T2	2	2	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
2/17/2025 20:01	44802	EDAN_T2	0	0	0	0	0	0	-2.04	-2.07	0	0	0	0	0	0
2/17/2025 20:01	44801	EDAN_T2	2	3	1	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
2/17/2025 20:01	53501	EVIL_T2	1	1	0	0.4	0.7	0.3	-1.44	-1.42	2	2	0	1200	1200	0
2/17/2025 20:01	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 20:01	55001	NEWP_T1	0	14	14	0	0.1	0.1	0	0	0	0	0	0	0	0
2/17/2025 20:01	46203	DANV_T2	20	24	4	0.61	0.78	0.17	-1.44	-1.45	0	0	0	0	0	0
2/17/2025 20:01	53502	EVIL_T2	0	9	9	0	0	0	0	0	0	0	0	0	0	0
2/17/2025 20:01	46204	DANV_T2	117	122	5	0.85	0.85	0	0	0	0	0	0	0	0	0
2/17/2025 20:01	67605	WARW_T1	1	0	-1	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
2/17/2025 20:01	55002	NEWP_T1	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/17/2025 20:01	46206	DANV_T2	70	44	-26	0.62	0.62	0	0	0	0	0	0	0	0	0
2/17/2025 20:02	61304	EARL_T1	0	0	0	0	0	0	-0.84	-0.86	1	1	0	600	600	0
2/17/2025 20:02	64202	KINZ_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/17/2025 20:02	52402	GRPA_T2	23	90	67	0.41	0.8	0.39	0	0	0	0	0	0	0	0
2/17/2025 20:02	64203	KINZ_T1	0	0	0	0	0	0	-1.69	-1.73	2	2	0	1800	1800	0
2/17/2025 20:02	41903	REED_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/17/2025 20:02	52403	GRPA_T2	13	154	141	0.61	0.65	0.04	0	0	0	0	0	0	0	0
2/17/2025 20:02	41902	REED_T1	9	10	1	0.5	0.61	0.11	-0.59	-0.58	1	1	0	900	900	0
2/17/2025 20:02	52401	GRPA_T2	1	4	3	0.3	0	-0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/17/2025 20:02	64204	KINZ_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
2/17/2025 20:03	58402	MORO_T1	0	0	0	0	0	0	-1.11	-0.68	4	3	-1	2850	2400	-450
2/17/2025 20:03	49803	UNIV_T1	1	1	0	6	5.8	-0.2	-0.81	-0.88	0	0	0	0	0	0
2/17/2025 20:04	49803	UNIV_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
2/17/2025 20:04	58202	NEWV_T1	0	0	0	0	0	0	0.02	-0.14	0	0	0	0	0	0
2/17/2025 20:04	52403	GRPA_T2	13	154	141	0.61	0.65	0.04	-0.79	-0.12	0	0	0	0	0	0
2/17/2025 20:04	49804	UNIV_T1	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
2/17/2025 20:04	52401	GRPA_T2	1	4	3	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/17/2025 20:04	58201	NEWV_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/17/2025 20:04	52402	GRPA_T2	23	90	67	0.41	0.8	0.39	0	0	0	0	0	0	0	0
2/17/2025 20:05	67605	WARW_T1	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
2/17/2025 20:05	55002	NEWP_T1	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/17/2025 20:05	67603	WARW_T1	0	0	0	0	0	0	-0.46	-0.5	0	0	0	0	0	0
2/17/2025 20:05	55001	NEWP_T1	0	14	14	0	0.1	0.1	-0.84	-0.79	1	1	0	600	600	0
2/17/2025 20:05	55101	WERT_T1	0	0	0	0	0	0	-1.68	-1.76	2	2	0	1500	1500	0
2/17/2025 20:06	44301	BEAV_T2	2	2	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
2/17/2025 20:06	44302	BEAV_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
2/17/2025 20:07	46203	DANV_T2	20	24	4	0.61	0.78	0.17	0	0	0	0	0	0	0	0
2/17/2025 20:07	46204	DANV_T2	117	122	5	0.85	0.85	0	0	0	0	0	0	0	0	0
2/17/2025 20:07	40501	CRES_T2	233	107	-126	0.46	0.38	-0.08	0	0	0	0	0	0	0	0
2/17/2025 20:07	58401	MORO_T1	0	0	0	0	0	0	-0.94	-0.91	1	1	0	600	600	0
2/17/2025 20:07	46206	DANV_T2	70	44	-26	0.62	0.62	0	1.97	1.97	2	2	0	2100	2100	0
2/17/2025 20:21	64105	ELAN_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
2/17/2025 20:22	11101	EGYP_T1	1	1	0	1.1	0.6	-0.5	-0.62	-0.61	1	1	0	1200	1200	0
2/17/2025 20:22	11102	EGYP_T1	10	10	0	0.9	0.44	-0.46	0	0	0	0	0	0	0	0
2/17/2025 20:22	11104	EGYP_T1	19	14	-5	0.35	0.63	0.28	0	0	0	0	0	0	0	0
2/17/2025 20:23	65206	PRIN_T4	1	0	-1	4.3	0	-4.3	0	0	0	0	0	0	0	0
2/17/2025 20:23	65207	PRIN_T4	2	4	2	2.75	2.2	-0.55	0	0	0	0	0	0	0	0
2/17/2025 20:23	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/17/2025 20:24	11104	EGYP_T1	19	14	-5	0.35	0.63	0.28	0	0	0	0	0	0	0	0
2/17/2025 20:24	11102	EGYP_T1	10	10	0	0.9	0.44	-0.46	0	0	0	0	0	0	0	0
2/17/2025 20:24	11101	EGYP_T1	1	1	0	1.1	0.6	-0.5	-0.62	-0.61	1	1	0	1200	1200	0
2/17/2025 20:39	57205	ROSS_T1	0	0	0	0	0	0	-0.73	-0.74	1	1	0	900	900	0
2/17/2025 21:19	58402	MORO_T1	0	0	0	0	0	0	-0.78	-0.85	3	3	0	2400	2400	0
2/17/2025 21:32	11101	EGYP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/17/2025 21:32	11104	EGYP_T1	1	2	1	1.1	0.5	-0.6	-0.31	-0.34	1	1	0	900	900	0
2/17/2025 21:48	66504	SMAN_T2	0	0	0	0	0	0	-3.09	-3.17	2	2	0	2400	2400	0
2/17/2025 21:48	66505	SMAN_T2	3	3	0	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
2/17/2025 22:14	66901	SHIL_T2	0	0	0	0	0	0	-1.38	-1.39	1	1	0	1200	1200	0
2/18/2025 7:26	11101	EGYP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 7:26	11104	EGYP_T1	7	13	6	0.56	0.74	0.18	0	0	0	0	0	0	0	0
2/18/2025 7:26	11102	EGYP_T1	10	10	0	1.06	0.63	-0.43	0	0	0	0	0	0	0	0
2/18/2025 7:28	40501	CRES_T2	71	13	-58	0.39	0.22	-0.17	0	0	0	0	0	0	0	0
2/18/2025 7:36	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 7:36	24901	WHHA_T1	4	6	2	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
2/18/2025 7:36	16101	BING_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 7:36	24902	WHHA_T1	24	16	-8	0.75	0.69	-0.06	0.23	0.23	0	0	0	0	0	0
2/18/2025 7:36	16102	BING_T2	1	1	0	0.2	1.4	1.2	0	0	0	0	0	0	0	0
2/18/2025 7:41	45502	DERR_T2	15	18	3	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
2/18/2025 7:41	45501	DERR_T2	6	28	22	0.75	0.37	-0.38	0.75	0.73	2	2	0	1800	1800	0
2/18/2025 7:42	16102	BING_T2	1	1	0	0.2	1.4	1.2	0	0	0	0	0	0	0	0
2/18/2025 7:42	16101	BING_T2	0	2	2	0	0	0	0.75	0.74	0	0	0	0	0	0
2/18/2025 7:44	11507	FREE_T2	362	352	-10	0.93	0.93	0	2.06	2.12	0	0	0	0	0	0
2/18/2025 7:47	55002	NEWP_T1	0	3	3	0	0.53	0.53	-0.07	-0.09	0	0	0	0	0	0
2/18/2025 7:47	53802	MBRG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 7:47	55001	NEWP_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
2/18/2025 7:48	42901	MIDD_T2	1	0	-1	0.3	0	-0.3	-0.67	-0.69	1	1	0	600	600	0
2/18/2025 7:48	42903	MIDD_T2	2	1	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
2/18/2025 7:49	24201	PROV_T3	8	11	3	2.6	3.58	0.98	-1.39	-1.36	1	1	0	1200	1200	0
2/18/2025 7:49	24205	PROV_T3	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
2/18/2025 7:49	43201	MVIL_T2	2	1	-1	0.15	0	-0.15	-0.24	-0.24	0	0	0	0	0	0
2/18/2025 7:49	24204	PROV_T3	2	1	-1	2.8	5.8	3	0	0	0	0	0	0	0	0
2/18/2025 7:49	43202	MVIL_T2	2	1	-1	1.05	2.1	1.05	0	0	0	0	0	0	0	0
2/18/2025 7:49	66703	STRA_T1	0	0	0	0	0	0	-0.92	-0.85	0	0	0	0	0	0
2/18/2025 7:50	44904	SCOT_T1	5	4	-1	0.68	0.15	-0.53	0	0	0	0	0	0	0	0
2/18/2025 7:50	44905	SCOT_T1	52	39	-13	0.97	0.23	-0.74	0	0	0	0	0	0	0	0
2/18/2025 7:51	24901	WHHA_T1	4	5	1	0.28	0.3	0.02	0	0	0	0	0	0	0	0
2/18/2025 7:51	47401	PENS_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
2/18/2025 7:51	67002	STHI_T2	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
2/18/2025 7:51	47403	PENS_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
2/18/2025 7:51	67001	STHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 7:51	24902	WHHA_T1	16	14	-2	0.69	0.67	-0.02	0.23	0.22	0	0	0	0	0	0
2/18/2025 7:52	55101	WERT_T1	1	3	2	0.4	0.3	-0.1	-1.23	-1.2	2	2	0	1500	1500	0
2/18/2025 7:52	47401	PENS_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
2/18/2025 7:52	67001	STHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 7:52	44904	SCOT_T1	5	4	-1	0.68	0.15	-0.53	0	0	0	0	0	0	0	0
2/18/2025 7:52	47403	PENS_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
2/18/2025 7:52	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 7:52	24204	PROV_T3	2	1	-1	2.8	5.8	3	0	0	0	0	0	0	0	0
2/18/2025 7:52	24201	PROV_T3	8	11	3	2.6	3.58	0.98	-1.36	-1.37	1	1	0	1200	1200	0
2/18/2025 7:52	44905	SCOT_T1	52	39	-13	0.97	0.23	-0.74	0	0	0	0	0	0	0	0
2/18/2025 7:52	24205	PROV_T3	4	0	-4	0.13	0	-0.13	0	0	0	0	0	0	0	0
2/18/2025 7:53	55101	WERT_T1	1	3	2	0.4	0.3	-0.1	-1.23	-1.2	2	2	0	1500	1500	0
2/18/2025 7:54	46203	DANV_T2	24	60	36	0.85	0.77	-0.08	-1.38	-1.39	0	0	0	0	0	0
2/18/2025 7:54	46206	DANV_T2	92	64	-28	0.73	0.61	-0.12	0	0	0	0	0	0	0	0
2/18/2025 7:54	46204	DANV_T2	121	121	0	1.46	0.9	-0.56	0	0	0	0	0	0	0	0
2/18/2025 7:54	66703	STRA_T1	0	0	0	0	0	0	-0.85	-0.85	0	0	0	0	0	0
2/18/2025 7:55	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 7:56	46203	DANV_T2	24	60	36	0.85	0.77	-0.08	0	0	0	0	0	0	0	0
2/18/2025 7:56	46206	DANV_T2	92	64	-28	0.73	0.61	-0.12	4.41	4.38	4	4	0	4200	4200	0
2/18/2025 7:56	55101	WERT_T1	1	3	2	0.4	0.3	-0.1	1.23	1.2	2	2	0	1500	1500	0
2/18/2025 7:56	46204	DANV_T2	121	121	0	1.46	0.9	-0.56	0	0	0	0	0	0	0	0
2/18/2025 7:57	45501	DERR_T2	27	6	-21	0.38	0.33	-0.05	0.73	0.72	2	2	0	1800	1800	0
2/18/2025 7:57	20601	GRWO_T2	59	13	-46	0.67	1.18	0.51	0.13	0.15	0	0	0	0	0	0
2/18/2025 7:57	20603	GRWO_T2	20	20	0	1.72	1.18	-0.54	0	0	0	0	0	0	0	0
2/18/2025 7:57	46204	DANV_T2	121	121	0	1.46	0.9	-0.56	0	0	0	0	0	0	0	0
2/18/2025 7:57	46203	DANV_T2	24	60	36	0.85	0.77	-0.08	-1.38	-1.39	0	0	0	0	0	0
2/18/2025 7:57	45502	DERR_T2	17	9	-8	0.55	0.57	0.02	0	0	0	0	0	0	0	0
2/18/2025 7:57	46206	DANV_T2	92	64	-28	0.73	0.61	-0.12	0	0	0	0	0	0	0	0
2/18/2025 7:59	25503	MADI_T1	8	52	44	0.34	0.44	0.1	0	0	0	0	0	0	0	0
2/18/2025 7:59	53601	DALM_T2	6	6	0	1.17	1	-0.17	-0.52	-0.56	1	1	0	900	900	0
2/18/2025 7:59	20802	LOPO_T1	2	2	0	0.95	0.3	-0.65	0	0	0	0	0	0	0	0
2/18/2025 7:59	20801	LOPO_T1	7	12	5	0.96	0.87	-0.09	0.3	0.29	0	0	0	0	0	0
2/18/2025 7:59	25501	MADI_T1	495	524	29	1.55	1.55	0	0	0	1	1	0	600	600	0
2/18/2025 8:00	46504	LOHA_T1	2	2	0	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
2/18/2025 8:00	46506	LOHA_T1	4	5	1	1.38	1.8	0.42	0	0	0	0	0	0	0	0
2/18/2025 8:00	46501	LOHA_T1	2	3	1	1.05	0.7	-0.35	-0.03	0	1	1	0	1200	1200	0
2/18/2025 8:00	16102	BING_T2	1	1	0	1.4	4.8	3.4	0	0	0	0	0	0	0	0
2/18/2025 8:00	16103	BING_T2	0	0	0	0	0	0	-1.99	-1.95	2	2	0	1500	1500	0
2/18/2025 8:02	54201	PENN_T1	61	10	-51	0.37	1.11	0.74	0	0	0	0	0	0	0	0
2/18/2025 8:02	54203	PENN_T1	18	18	0	0.88	0.98	0.1	0.11	0.13	0	0	0	0	0	0
2/18/2025 8:03	63401	HONY_T1	0	0	0	0	0	0	1	0.98	2	2	0	1200	1200	0
2/18/2025 8:04	42903	MIDD_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/18/2025 8:04	63401	HONY_T1	0	0	0	0	0	0	0.5	0.49	1	1	0	600	600	0
2/18/2025 8:04	42902	MIDD_T2	0	1	1	0	0.2	0.2	-0.69	-0.75	1	1	0	600	600	0
2/18/2025 8:07	67002	STHI_T2	0	0	0	0	0	0	1.39	1.32	0	0	0	0	0	0
2/18/2025 8:07	67001	STHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/18/2025 8:08	58701	ROSE_T2	0	0	0	0	0	0	-1.5	-1.46	1	1	0	600	600	0
2/18/2025 8:08	41301	FISH_T1	1	2	1	1	0.7	-0.3	0	0	0	0	0	0	0	0
2/18/2025 8:08	58706	ROSE_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
2/18/2025 8:08	67002	STHI_T2	0	0	0	0	0	0	1.39	1.32	0	0	0	0	0	0
2/18/2025 8:08	67001	STHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/18/2025 8:09	67001	STHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/18/2025 8:09	67002	STHI_T2	0	0	0	0	0	0	0.69	0.66	0	0	0	0	0	0
2/18/2025 8:10	41301	FISH_T1	1	2	1	1	0.7	-0.3	-0.68	-0.69	0	0	0	0	0	0
2/18/2025 8:11	65601	QVIL_T2	0	0	0	0	0	0	-0.79	-0.74	1	1	0	900	900	0
2/18/2025 8:12	46204	DANV_T2	120	120	0	0.89	0.93	0.04	0	0	0	0	0	0	0	0
2/18/2025 8:12	56501	ROCK_T2	3	19	16	0.3	0.19	-0.11	-4.61	-4.65	0	0	0	0	0	0
2/18/2025 8:12	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 8:12	46206	DANV_T2	60	48	-12	0.76	0.66	-0.1	2.19	2.15	2	2	0	2100	2100	0
2/18/2025 8:12	46203	DANV_T2	21	61	40	0.76	0.76	0	0	0	0	0	0	0	0	0
2/18/2025 8:13	20601	GRWO_T2	13	5	-8	0.76	1.18	0.42	0	0	0	0	0	0	0	0
2/18/2025 8:13	20603	GRWO_T2	20	18	-2	1.58	1.14	-0.44	-0.47	-0.47	1	1	0	900	900	0
2/18/2025 8:14	24105	EHAZ_T1	11	4	-7	2.23	5.53	3.3	0	0	0	0	0	0	0	0
2/18/2025 8:14	24103	EHAZ_T1	3	12	9	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/18/2025 8:14	24102	EHAZ_T1	3	2	-1	0.57	0.1	-0.47	0	0	0	0	0	0	0	0
2/18/2025 8:14	24101	EHAZ_T1	93	54	-39	1.49	1.59	0.1	0	0	0	0	0	0	0	0
2/18/2025 8:14	24104	EHAZ_T1	0	6	6	0	0.12	0.12	-2.12	-2.13	1	1	0	1200	1200	0
2/18/2025 8:15	42902	MIDD_T2	0	1	1	0	0.2	0.2	-0.75	-0.75	1	1	0	600	600	0
2/18/2025 8:17	42902	MIDD_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 8:18	44902	SCOT_T2	10	149	139	0.14	0.17	0.03	-0.81	-0.81	0	0	0	0	0	0
2/18/2025 8:18	44901	SCOT_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
2/18/2025 8:19	52402	GRPA_T2	31	32	1	0.68	0.38	-0.3	0	0	0	0	0	0	0	0
2/18/2025 8:19	52404	GRPA_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/18/2025 8:19	52403	GRPA_T2	25	40	15	0.47	0.58	0.11	-0.06	-0.14	0	0	0	0	0	0
2/18/2025 8:19	52401	GRPA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/18/2025 8:20	58302	NOTT_T1	0	0	0	0	0	0	-1.24	-1.28	2	2	0	2100	2100	0
2/18/2025 8:21	66505	SMAN_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 8:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 8:22	52102	MEIS_T1	0	7	7	0	0.8	0.8	0	0	1	1	0	450	450	0
2/18/2025 8:22	52101	MEIS_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
2/18/2025 8:24	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 8:24	66703	STRA_T1	0	0	0	0	0	0	-0.15	-0.32	0	0	0	0	0	0
2/18/2025 8:25	51905	COPA_T1	22	117	95	0.11	0.26	0.15	-1.61	-1.62	0	0	0	0	0	0
2/18/2025 8:27	51904	COPA_T1	0	0	0	0	0	0	-0.39	-0.27	1	1	0	600	600	0
2/18/2025 8:27	51905	COPA_T1	22	117	95	0.11	0.26	0.15	0	0	0	0	0	0	0	0
2/18/2025 8:28	29402	BELT_T1	1	3	2	7	3.6	-3.4	0	0	0	0	0	0	0	0
2/18/2025 8:28	29401	BELT_T1	113	117	4	0.5	0.49	-0.01	0	0	0	0	0	0	0	0
2/18/2025 8:29	51905	COPA_T1	22	117	95	0.11	0.26	0.15	-3.22	-3.24	0	0	0	0	0	0
2/18/2025 8:29	44502	HAMI_T2	4	2	-2	1.5	2	0.5	0.06	0.06	0	0	0	0	0	0
2/18/2025 8:30	11104	EGYP_T1	1	0	-1	0.1	0	-0.1	-0.24	-0.29	1	1	0	900	900	0
2/18/2025 8:30	51904	COPA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 8:30	51905	COPA_T1	108	91	-17	0.26	0.2	-0.06	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/18/2025 8:31	55002	NEWP_T1	3	5	2	0.47	0.6	0.13	0	0	0	0	0	0	0	0
2/18/2025 8:31	55001	NEWP_T1	1	0	-1	1.5	0	-1.5	-0.7	-0.78	1	1	0	600	600	0
2/18/2025 8:32	11104	EGYP_T1	1	0	-1	0.1	0	-0.1	-0.24	-0.29	1	1	0	900	900	0
2/18/2025 8:33	46506	LOHA_T1	4	4	0	1.8	2	0.2	0	0	0	0	0	0	0	0
2/18/2025 8:33	46504	LOHA_T1	2	2	0	0.2	0.65	0.45	0	0	0	0	0	0	0	0
2/18/2025 8:33	46501	LOHA_T1	1	2	1	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
2/18/2025 8:33	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
2/18/2025 8:33	55001	NEWP_T1	1	0	-1	1.5	0	-1.5	-0.7	-0.78	1	1	0	600	600	0
2/18/2025 8:33	55002	NEWP_T1	3	5	2	0.47	0.6	0.13	0	0	0	0	0	0	0	0
2/18/2025 8:34	52502	PROG_T2	0	0	0	0	0	0	-0.15	-0.17	1	1	0	900	900	0
2/18/2025 8:35	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 8:35	63403	HONY_T2	0	0	0	0	0	0	-0.16	-0.34	0	0	0	0	0	0
2/18/2025 8:35	57201	ROSS_T1	0	0	0	0	0	0	-0.28	-0.37	0	0	0	0	0	0
2/18/2025 8:35	63402	HONY_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
2/18/2025 8:36	52502	PROG_T2	0	0	0	0	0	0	-0.31	-0.34	2	2	0	1800	1800	0
2/18/2025 8:37	44901	SCOT_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
2/18/2025 8:37	57201	ROSS_T1	0	0	0	0	0	0	-0.37	-0.45	0	0	0	0	0	0
2/18/2025 8:37	44902	SCOT_T2	77	168	91	0.18	0.19	0.01	-0.78	-0.82	0	0	0	0	0	0
2/18/2025 8:38	52502	PROG_T2	0	0	0	0	0	0	-0.17	0.72	1	0	-1	900	0	-900
2/18/2025 8:38	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 8:39	41902	REED_T1	0	0	0	0	0	0	-0.41	-0.47	1	1	0	900	900	0
2/18/2025 8:39	41903	REED_T1	4	4	0	0.45	0	-0.45	0	0	0	0	0	0	0	0
2/18/2025 8:40	46206	DANV_T2	20	41	21	0.64	0.54	-0.1	0	0	0	0	0	0	0	0
2/18/2025 8:40	46204	DANV_T2	115	105	-10	0.93	0.55	-0.38	0	0	0	0	0	0	0	0
2/18/2025 8:40	46203	DANV_T2	54	141	87	0.79	0.75	-0.04	-2.97	-2.87	0	0	0	0	0	0
2/18/2025 8:42	53501	EVIL_T2	1	1	0	0.9	1.2	0.3	-1.97	-1.98	3	3	0	2100	2100	0
2/18/2025 8:42	17803	GILB_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
2/18/2025 8:42	17804	GILB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 8:42	53502	EVIL_T2	12	12	0	1.69	2.6	0.91	0	0	0	0	0	0	0	0
2/18/2025 8:42	17805	GILB_T2	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
2/18/2025 8:43	46206	DANV_T2	20	41	21	0.64	0.54	-0.1	0	0	0	0	0	0	0	0
2/18/2025 8:43	46203	DANV_T2	54	141	87	0.79	0.75	-0.04	-1.48	-1.44	0	0	0	0	0	0
2/18/2025 8:43	53502	EVIL_T2	12	12	0	1.69	2.6	0.91	0	0	0	0	0	0	0	0
2/18/2025 8:43	53501	EVIL_T2	1	1	0	0.9	1.2	0.3	-1.97	-1.98	3	3	0	2100	2100	0
2/18/2025 8:43	46204	DANV_T2	115	105	-10	0.93	0.55	-0.38	0	0	0	0	0	0	0	0
2/18/2025 8:44	53502	EVIL_T2	12	12	0	1.69	2.6	0.91	0	0	0	0	0	0	0	0
2/18/2025 8:44	53501	EVIL_T2	1	1	0	0.9	1.2	0.3	-1.97	-1.98	3	3	0	2100	2100	0
2/18/2025 8:46	57402	SPAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
2/18/2025 8:46	57404	SPAN_T2	0	0	0	0	0	0	-0.01	0.03	1	1	0	1200	1200	0
2/18/2025 8:47	53502	EVIL_T2	12	12	0	3.26	1.1	-2.16	0	0	0	0	0	0	0	0
2/18/2025 8:47	53501	EVIL_T2	1	2	1	1	0.8	-0.2	0	0	0	0	0	0	0	0
2/18/2025 8:47	23301	JEFF_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/18/2025 8:47	17803	GILB_T2	1	2	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/18/2025 8:47	17805	GILB_T2	0	1	1	0	0	0	-0.44	-0.47	0	0	0	0	0	0
2/18/2025 8:48	57403	SPAN_T1	1	5	4	0.1	0.14	0.04	0	0	0	0	0	0	0	0
2/18/2025 8:48	57401	SPAN_T1	2	12	10	0.6	0.29	-0.31	-1.05	-1.1	1	1	0	600	600	0
2/18/2025 8:48	57402	SPAN_T2	0	2	2	0	0.5	0.5	-0.46	-0.46	0	0	0	0	0	0
2/18/2025 8:49	57403	SPAN_T1	1	5	4	0.1	0.14	0.04	0	0	0	0	0	0	0	0
2/18/2025 8:49	52102	MEIS_T1	6	8	2	0.8	0.65	-0.15	0	0	1	1	0	450	450	0
2/18/2025 8:49	57401	SPAN_T1	2	12	10	0.6	0.29	-0.31	-1.05	-1.1	1	1	0	600	600	0
2/18/2025 8:49	57402	SPAN_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
2/18/2025 8:50	66505	SMAN_T2	3	4	1	0.2	0.9	0.7	0	0	0	0	0	0	0	0
2/18/2025 8:50	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 8:50	55002	NEWP_T1	5	3	-2	0.6	0.47	-0.13	-0.11	-0.08	0	0	0	0	0	0
2/18/2025 8:50	49803	UNIV_T1	1	2	1	5.9	6	0.1	-0.82	-0.82	0	0	0	0	0	0
2/18/2025 8:50	66504	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/18/2025 8:50	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 8:50	66503	SMAN_T2	0	0	0	0	0	0	0.47	0.58	0	0	0	0	0	0
2/18/2025 8:54	41902	REED_T1	0	0	0	0	0	0	-0.47	-0.47	1	1	0	900	900	0
2/18/2025 8:54	41903	REED_T1	4	0	-4	0.33	0	-0.33	0	0	0	0	0	0	0	0
2/18/2025 8:56	40501	CRES_T2	5	14	9	0.24	0.26	0.02	0	0	0	0	0	0	0	0
2/18/2025 8:56	61001	DONV_T1	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
2/18/2025 8:56	41903	REED_T1	4	0	-4	0.33	0	-0.33	0.15	0.23	1	1	0	1200	1200	0
2/18/2025 8:57	61001	DONV_T1	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
2/18/2025 8:57	41902	REED_T1	0	0	0	0	0	0	-0.94	-0.95	2	2	0	1800	1800	0
2/18/2025 8:57	22101	EDEL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 8:57	40501	CRES_T2	5	14	9	0.24	0.26	0.02	0	0	0	0	0	0	0	0
2/18/2025 8:57	41903	REED_T1	4	0	-4	0.33	0	-0.33	0	0	0	0	0	0	0	0
2/18/2025 8:57	22103	EDEL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 8:57	56501	ROCK_T2	2	30	28	1	0.24	-0.76	-1.74	-1.79	0	0	0	0	0	0
2/18/2025 8:58	53502	EVIL_T2	12	12	0	3.26	1.1	-2.16	0	0	0	0	0	0	0	0
2/18/2025 8:58	53501	EVIL_T2	1	2	1	1	0.8	-0.2	-1.98	-1.88	3	3	0	2100	2100	0
2/18/2025 8:59	46203	DANV_T2	90	142	52	0.71	0.76	0.05	-1.44	-1.42	0	0	0	0	0	0
2/18/2025 8:59	40501	CRES_T2	5	14	9	0.24	0.26	0.02	0	0	0	0	0	0	0	0
2/18/2025 8:59	46206	DANV_T2	12	84	72	0.54	0.49	-0.05	0	0	0	0	0	0	0	0
2/18/2025 8:59	46204	DANV_T2	96	120	24	0.58	0.63	0.05	0	0	0	0	0	0	0	0
2/18/2025 9:00	40503	CRES_T1	3	4	1	0.33	0.17	-0.16	0	0	0	0	0	0	0	0
2/18/2025 9:00	66505	SMAN_T2	3	4	1	0.83	0.8	-0.03	-0.21	-0.21	2	2	0	1100	1100	0
2/18/2025 9:00	49803	UNIV_T1	1	0	-1	6	6	0	-0.82	-0.82	0	0	0	0	0	0
2/18/2025 9:00	52401	GRPA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/18/2025 9:00	44901	SCOT_T2	2	2	0	0.35	1.05	0.7	0	0	0	0	0	0	0	0
2/18/2025 9:00	52402	GRPA_T2	21	14	-7	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
2/18/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
2/18/2025 9:00	52404	GRPA_T2	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
2/18/2025 9:00	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 9:00	52102	MEIS_T1	8	4	-4	0.86	0.33	-0.53	0	0	1	1	0	450	450	0
2/18/2025 9:00	67001	STHI_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/18/2025 9:00	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 9:00	40602	PIGR_T1	6	11	5	0.28	0.35	0.07	-0.67	-0.65	0	0	0	0	0	0
2/18/2025 9:00	57201	ROSS_T1	0	0	0	0	0	0	-0.45	-0.35	0	0	0	0	0	0
2/18/2025 9:00	63501	HEID_TBX1-2	0	0	0	0	0	0	1.66	1.82	4	4	0	3600	3600	0
2/18/2025 9:00	66504	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/18/2025 9:00	40603	PIGR_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
2/18/2025 9:00	67002	STHI_T2	1	2	1	0.3	0.15	-0.15	0.69	0.69	0	0	0	0	0	0
2/18/2025 9:00	52403	GRPA_T2	11	23	12	0.61	0.54	-0.07	0	0	0	0	0	0	0	0
2/18/2025 9:00	55001	NEWP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 9:00	58302	NOTT_T1	0	0	0	0	0	0	-1.29	0.04	2	1	-1	2100	900	-1200
2/18/2025 9:00	57205	ROSS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 9:00	40601	PIGR_T1	61	68	7	0.26	0.26	0	0	0	0	0	0	0	0	0
2/18/2025 9:00	55002	NEWP_T1	3	2	-1	0.47	0.45	-0.02	-0.08	-0.11	0	0	0	0	0	0
2/18/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.45	0.35	0	0	0	0	0	0
2/18/2025 9:00	44902	SCOT_T2	158	44	-114	0.19	0.16	-0.03	-0.82	-0.83	0	0	0	0	0	0
2/18/2025 9:02	54701	NEBL_T1	7	7	0	0.49	0.67	0.18	0	0	0	0	0	0	0	0
2/18/2025 9:02	29402	BELT_T1	7	24	17	1.31	0.61	-0.7	0	0	0	0	0	0	0	0
2/18/2025 9:02	29401	BELT_T1	149	158	9	0.64	0.67	0.03	0	0	0	0	0	0	0	0
2/18/2025 9:06	44902	SCOT_T2	158	44	-114	0.19	0.16	-0.03	0	0	0	0	0	0	0	0
2/18/2025 9:06	44901	SCOT_T2	2	2	0	0.35	1.05	0.7	0.28	0.25	0	0	0	0	0	0
2/18/2025 9:07	66702	STRA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/18/2025 9:07	46504	LOHA_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/18/2025 9:07	46502	LOHA_T1	0	0	0	0	0	0	-1.32	-1.37	1	1	0	1200	1200	0
2/18/2025 9:07	46501	LOHA_T1	2	1	-1	0.95	1.5	0.55	0	0	0	0	0	0	0	0
2/18/2025 9:07	46506	LOHA_T1	4	4	0	1.98	2.33	0.35	0	0	0	0	0	0	0	0
2/18/2025 9:07	66703	STRA_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
2/18/2025 9:08	44902	SCOT_T2	158	44	-114	0.19	0.16	-0.03	-0.83	-0.81	0	0	0	0	0	0
2/18/2025 9:08	16302	ALPA_T2	1	0	-1	0.3	0	-0.3	-0.51	-0.58	0	0	0	0	0	0
2/18/2025 9:08	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 9:08	44904	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 9:08	57205	ROSS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 9:08	44901	SCOT_T2	2	2	0	0.35	1.05	0.7	0	0	0	0	0	0	0	0
2/18/2025 9:08	66702	STRA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/18/2025 9:08	44905	SCOT_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/18/2025 9:08	41902	REED_T1	0	3	3	0	0	0	-0.95	-0.88	2	2	0	1800	1800	0
2/18/2025 9:08	66703	STRA_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
2/18/2025 9:08	57201	ROSS_T1	0	0	0	0	0	0	-0.35	-0.4	0	0	0	0	0	0
2/18/2025 9:08	40101	HUNT_T2	13	102	89	0.67	0.62	-0.05	-0.9	-0.89	0	0	0	0	0	0
2/18/2025 9:09	46203	DANV_T2	141	106	-35	0.76	0.7	-0.06	0	0	0	0	0	0	0	0
2/18/2025 9:09	46204	DANV_T2	105	123	18	0.63	1.1	0.47	0	0	0	0	0	0	0	0
2/18/2025 9:09	46206	DANV_T2	41	80	39	0.49	0.52	0.03	6.61	6.49	2	2	0	2400	2400	0
2/18/2025 9:09	52102	MEIS_T1	8	4	-4	0.86	0.33	-0.53	0	0	1	1	0	450	450	0
2/18/2025 9:10	16302	ALPA_T2	1	0	-1	0.3	0	-0.3	-1.01	-1.16	0	0	0	0	0	0
2/18/2025 9:10	46204	DANV_T2	105	123	18	0.63	1.1	0.47	0	0	0	0	0	0	0	0
2/18/2025 9:10	45502	DERR_T2	2	1	-1	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
2/18/2025 9:10	24902	WHHA_T1	6	3	-3	0.7	0.53	-0.17	0.4	0.36	0	0	0	0	0	0
2/18/2025 9:10	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 9:10	41601	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 9:10	41902	REED_T1	0	3	3	0	0	0	-0.95	-0.88	2	2	0	1800	1800	0
2/18/2025 9:10	46203	DANV_T2	141	106	-35	0.76	0.7	-0.06	-1.42	-1.5	0	0	0	0	0	0
2/18/2025 9:10	24901	WHHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 9:10	46206	DANV_T2	41	80	39	0.49	0.52	0.03	3.31	3.24	1	1	0	1200	1200	0
2/18/2025 9:10	41602	CLEV_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 9:10	61501	DERR_T2	1	1	0	0.5	0	-0.5	1.18	1.16	4	4	0	3600	3600	0
2/18/2025 9:11	40501	CRES_T2	14	10	-4	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
2/18/2025 9:11	46204	DANV_T2	105	123	18	0.63	1.1	0.47	0	0	0	0	0	0	0	0
2/18/2025 9:11	46206	DANV_T2	41	80	39	0.49	0.52	0.03	0	0	0	0	0	0	0	0
2/18/2025 9:11	46203	DANV_T2	141	106	-35	0.76	0.7	-0.06	-1.42	-1.5	0	0	0	0	0	0
2/18/2025 9:12	40501	CRES_T2	14	10	-4	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
2/18/2025 9:12	24104	EHAZ_T1	27	10	-17	0.16	0.17	0.01	-2.09	-2.14	1	1	0	1200	1200	0
2/18/2025 9:12	24103	EHAZ_T1	8	7	-1	0.31	0	-0.31	0	0	0	0	0	0	0	0
2/18/2025 9:12	24102	EHAZ_T1	16	28	12	0.38	0.2	-0.18	0	0	0	0	0	0	0	0
2/18/2025 9:12	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 9:12	61001	DONV_T1	0	0	0	0	0	0	-0.13	-0.09	0	0	0	0	0	0
2/18/2025 9:12	24105	EHAZ_T1	11	17	6	2.45	2.54	0.09	0	0	0	0	0	0	0	0
2/18/2025 9:12	16302	ALPA_T2	1	0	-1	0.3	0	-0.3	-0.51	-0.58	0	0	0	0	0	0
2/18/2025 9:12	24101	EHAZ_T1	88	81	-7	1.32	1.78	0.46	0	0	0	0	0	0	0	0
2/18/2025 9:13	46203	DANV_T2	141	106	-35	0.76	0.7	-0.06	-1.42	-1.5	0	0	0	0	0	0
2/18/2025 9:13	46206	DANV_T2	41	80	39	0.49	0.52	0.03	0	0	0	0	0	0	0	0
2/18/2025 9:13	46204	DANV_T2	105	123	18	0.63	1.1	0.47	0	0	0	0	0	0	0	0
2/18/2025 9:14	40501	CRES_T2	14	10	-4	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
2/18/2025 9:14	46506	LOHA_T1	4	4	0	1.98	2.33	0.35	0	0	0	0	0	0	0	0
2/18/2025 9:14	46204	DANV_T2	105	123	18	0.63	1.1	0.47	0	0	0	0	0	0	0	0
2/18/2025 9:14	46206	DANV_T2	41	80	39	0.49	0.52	0.03	0	0	0	0	0	0	0	0
2/18/2025 9:14	16302	ALPA_T2	1	0	-1	0.3	0	-0.3	-0.51	-0.58	0	0	0	0	0	0
2/18/2025 9:14	46203	DANV_T2	141	106	-35	0.76	0.7	-0.06	-1.42	-1.5	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/18/2025 9:14	46501	LOHA_T1	2	1	-1	0.95	1.5	0.55	0	0	0	0	0	0	0	0
2/18/2025 9:14	46504	LOHA_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/18/2025 9:14	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
2/18/2025 9:14	17805	GILB_T2	0	1	1	0	0.6	0.6	0.43	0.39	0	0	0	0	0	0
2/18/2025 9:14	17803	GILB_T2	2	0	-2	0.75	0	-0.75	0	0	0	0	0	0	0	0
2/18/2025 9:14	17804	GILB_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/18/2025 9:15	40801	EXCH_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 9:15	46504	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 9:15	54505	ENOL_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/18/2025 9:15	40802	EXCH_T2	1	1	0	0.1	0.7	0.6	-1.3	-0.8	0	0	0	0	0	0
2/18/2025 9:15	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
2/18/2025 9:15	40501	CRES_T2	6	10	4	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
2/18/2025 9:15	46501	LOHA_T1	1	2	1	2.7	0.8	-1.9	0	0	0	0	0	0	0	0
2/18/2025 9:15	54503	ENOL_T2	0	0	0	0	0	0	-0.29	-0.3	1	1	0	600	600	0
2/18/2025 9:15	46506	LOHA_T1	4	4	0	2.15	2.4	0.25	0	0	0	0	0	0	0	0
2/18/2025 9:16	20601	GRWO_T2	3	3	0	1.1	1.05	-0.05	0	0	0	0	0	0	0	0
2/18/2025 9:16	20603	GRWO_T2	5	0	-5	0.24	0	-0.24	-0.43	-0.46	1	1	0	900	900	0
2/18/2025 9:17	16902	MECK_T1	83	79	-4	0.68	0.73	0.05	-2	-2.02	0	0	0	0	0	0
2/18/2025 9:17	25501	MADI_T1	303	378	75	0.92	1.2	0.28	0	0	1	1	0	600	600	0
2/18/2025 9:17	52404	GRPA_T2	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
2/18/2025 9:17	52401	GRPA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/18/2025 9:17	52403	GRPA_T2	10	26	16	0.59	0.58	-0.01	-0.29	-0.29	0	0	0	0	0	0
2/18/2025 9:17	25503	MADI_T1	9	15	6	0.57	0	-0.57	0	0	0	0	0	0	0	0
2/18/2025 9:17	61001	DONV_T1	0	0	0	0	0	0	-0.13	-0.09	0	0	0	0	0	0
2/18/2025 9:17	52402	GRPA_T2	14	17	3	0.36	0.35	-0.01	0	0	0	0	0	0	0	0
2/18/2025 9:18	43202	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 9:18	10401	LIGA_T1	15	13	-2	0.16	0.17	0.01	0	0	0	0	0	0	0	0
2/18/2025 9:18	55002	NEWP_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
2/18/2025 9:18	43201	MVIL_T2	1	1	0	0.1	0	-0.1	-0.26	-0.29	0	0	0	0	0	0
2/18/2025 9:18	23301	JEFF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 9:18	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	-0.73	-0.78	1	1	0	600	600	0
2/18/2025 9:18	61001	DONV_T1	0	0	0	0	0	0	-0.13	-0.09	0	0	0	0	0	0
2/18/2025 9:19	57403	SPAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/18/2025 9:19	64101	REFR_T1	1	1	0	2.3	0.2	-2.1	0.24	0.22	0	0	0	0	0	0
2/18/2025 9:19	57401	SPAN_T1	3	3	0	0.7	0.53	-0.17	-0.74	-0.67	1	1	0	600	600	0
2/18/2025 9:20	67001	STHI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/18/2025 9:20	55002	NEWP_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
2/18/2025 9:20	57402	SPAN_T2	1	1	0	0.5	0.4	-0.1	-0.45	-0.47	0	0	0	0	0	0
2/18/2025 9:20	67002	STHI_T2	2	1	-1	0.15	0.1	-0.05	0.69	0.7	0	0	0	0	0	0
2/18/2025 9:20	64101	REFR_T1	1	1	0	2.3	0.2	-2.1	0.24	0.22	0	0	0	0	0	0
2/18/2025 9:20	55001	NEWP_T1	1	0	-1	0.3	0	-0.3	-0.73	-0.78	1	1	0	600	600	0
2/18/2025 9:21	64101	REFR_T1	1	1	0	2.3	0.2	-2.1	0.11	0.09	0	0	0	0	0	0
2/18/2025 9:21	67001	STHI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/18/2025 9:21	44901	SCOT_T2	2	2	0	1.05	1.15	0.1	0.25	0.15	0	0	0	0	0	0
2/18/2025 9:21	44902	SCOT_T2	41	53	12	0.15	0.15	0	0	0	0	0	0	0	0	0
2/18/2025 9:21	67002	STHI_T2	2	1	-1	0.15	0.1	-0.05	1.4	1.38	0	0	0	0	0	0
2/18/2025 9:22	64101	REFR_T1	1	1	0	2.3	0.2	-2.1	0.22	0.19	0	0	0	0	0	0
2/18/2025 9:22	67203	TEHI_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 9:22	67201	TEHI_T1	1	0	-1	0.2	0	-0.2	-0.14	0	1	1	0	900	900	0
2/18/2025 9:22	67001	STHI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/18/2025 9:22	44901	SCOT_T2	2	2	0	1.05	1.15	0.1	0	0	0	0	0	0	0	0
2/18/2025 9:22	67002	STHI_T2	2	1	-1	0.15	0.1	-0.05	0.7	0.69	0	0	0	0	0	0
2/18/2025 9:22	59101	WALK_T2	0	0	0	0	0	0	1.97	1.38	1	1	0	600	600	0
2/18/2025 9:22	44902	SCOT_T2	41	53	12	0.15	0.15	0	-0.81	-0.82	0	0	0	0	0	0
2/18/2025 9:23	44901	SCOT_T2	2	2	0	1.05	1.15	0.1	0.25	0.15	0	0	0	0	0	0
2/18/2025 9:23	64101	REFR_T1	1	1	0	2.3	0.2	-2.1	0.11	0.09	0	0	0	0	0	0
2/18/2025 9:23	44902	SCOT_T2	41	53	12	0.15	0.15	0	0	0	0	0	0	0	0	0
2/18/2025 9:23	67002	STHI_T2	2	1	-1	0.15	0.1	-0.05	0.7	0.69	0	0	0	0	0	0
2/18/2025 9:23	67001	STHI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/18/2025 9:23	59101	WALK_T2	0	0	0	0	0	0	3.94	2.76	2	2	0	1200	1200	0
2/18/2025 9:24	64101	REFR_T1	1	1	0	2.3	0.2	-2.1	0	0	0	0	0	0	0	0
2/18/2025 9:25	46206	DANV_T2	74	77	3	0.56	0.52	-0.04	0	0	0	0	0	0	0	0
2/18/2025 9:25	46203	DANV_T2	102	96	-6	0.68	0.72	0.04	-1.5	-0.54	0	0	0	0	0	0
2/18/2025 9:25	46204	DANV_T2	120	123	3	1.19	0.86	-0.33	0	0	0	0	0	0	0	0
2/18/2025 9:26	59101	WALK_T2	0	0	0	0	0	0	1.97	1.38	1	1	0	600	600	0
2/18/2025 9:27	44502	HAMI_T2	2	1	-1	1.6	1.9	0.3	0.07	0.07	0	0	0	0	0	0
2/18/2025 9:28	11104	EGYP_T1	2	2	0	0.65	0.4	-0.25	0.62	0.61	0	0	0	0	0	0
2/18/2025 9:28	11507	FREE_T2	81	91	10	0.89	0.98	0.09	1.83	1.88	0	0	0	0	0	0
2/18/2025 9:28	16101	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/18/2025 9:28	11101	EGYP_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/18/2025 9:28	16103	BING_T2	0	0	0	0	0	0	-2	-2.04	2	2	0	1500	1500	0
2/18/2025 9:28	16102	BING_T2	0	1	1	0	3	3	0	0	0	0	0	0	0	0
2/18/2025 9:30	44502	HAMI_T2	1	1	0	1.9	1.9	0	0.07	0.07	0	0	0	0	0	0
2/18/2025 9:31	29401	BELT_T1	147	159	12	0.65	0.64	-0.01	0	0	0	0	0	0	0	0
2/18/2025 9:31	44502	HAMI_T2	1	1	0	1.9	1.9	0	0.07	0.07	0	0	0	0	0	0
2/18/2025 9:31	29402	BELT_T1	21	33	12	0.64	0.55	-0.09	0	0	0	0	0	0	0	0
2/18/2025 9:33	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/18/2025 9:33	52403	GRPA_T2	22	33	11	0.58	0.71	0.13	-0.29	-0.34	0	0	0	0	0	0
2/18/2025 9:33	52401	GRPA_T2	1	1	0	0.3	0.8	0.5	-0.31	-0.34	0	0	0	0	0	0
2/18/2025 9:33	52402	GRPA_T2	11	22	11	0.36	0.36	0	0	0	0	0	0	0	0	0
2/18/2025 9:34	57205	ROSS_T1	1	2	1	0.2	0.6	0.4	0	0	0	0	0	0	0	0
2/18/2025 9:34	57201	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 9:35	49803	UNIV_T1	1	2	1	6	3.1	-2.9	-0.81	-0.87	0	0	0	0	0	0
2/18/2025 9:36	49803	UNIV_T1	1	2	1	6	3.1	-2.9	0	0	0	0	0	0	0	0
2/18/2025 9:36	57306	MOAL_T2	0	0	0	0	0	0	-2.92	-2.93	1	1	0	1200	1200	0
2/18/2025 9:36	49804	UNIV_T1	0	0	0	0	0	0	0.72	0.79	0	0	0	0	0	0
2/18/2025 9:36	57303	MOAL_T2	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
2/18/2025 9:37	29401	BELT_T1	147	159	12	0.65	0.64	-0.01	0	0	1	1	0	900	900	0
2/18/2025 9:37	57201	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 9:37	29402	BELT_T1	21	33	12	0.64	0.55	-0.09	0	0	0	0	0	0	0	0
2/18/2025 9:37	55101	WERT_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 9:37	57205	ROSS_T1	1	2	1	0.2	0.6	0.4	0.39	0.39	0	0	0	0	0	0
2/18/2025 9:37	64904	MILL_T1	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
2/18/2025 9:38	64801	MONE_T2	4	4	0	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
2/18/2025 9:38	65801	RTWN_T1	0	0	0	0	0	0	-0.55	-0.66	1	1	0	300	300	0
2/18/2025 9:38	66702	SPRA_T1	1	0	-1	0.3	0	-0.3	-0.82	-0.76	2	2	0	1500	1500	0
2/18/2025 9:38	64802	MONE_T2	17	12	-5	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
2/18/2025 9:39	60201	ATGL_T2	5	8	3	0.32	0.25	-0.07	0.22	0.3	0	0	0	0	0	0
2/18/2025 9:39	49803	UNIV_T1	1	2	1	6	3.1	-2.9	0	0	0	0	0	0	0	0
2/18/2025 9:39	53601	DALM_T2	1	1	0	0.3	0.1	-0.2	-0.21	-0.46	1	1	0	900	900	0
2/18/2025 9:39	64802	MONE_T2	17	12	-5	0.23	0.21	-0.02	0.3	0.25	0	0	0	0	0	0
2/18/2025 9:39	64801	MONE_T2	4	4	0	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
2/18/2025 9:40	64802	MONE_T2	17	12	-5	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
2/18/2025 9:40	60201	ATGL_T2	5	8	3	0.32	0.25	-0.07	0.22	0.3	0	0	0	0	0	0
2/18/2025 9:40	44802	EDAN_T2	0	1	1	0	0	0	-2.02	-2.03	0	0	0	0	0	0
2/18/2025 9:40	64801	MONE_T2	4	4	0	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
2/18/2025 9:40	44801	EDAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 9:41	44801	EDAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 9:41	44802	EDAN_T2	0	1	1	0	0	0	-4.05	-4.07	0	0	0	0	0	0
2/18/2025 9:42	53502	EVIL_T2	11	12	1	1.57	1.76	0.19	0	0	0	0	0	0	0	0
2/18/2025 9:42	44801	EDAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 9:42	46206	DANV_T2	77	42	-35	0.56	0.48	-0.08	0	0	0	0	0	0	0	0
2/18/2025 9:42	46203	DANV_T2	93	14	-79	0.72	0.23	-0.49	-0.54	-0.58	0	0	0	0	0	0
2/18/2025 9:42	53501	EVIL_T2	2	2	0	0.6	0.9	0.3	-1.99	-2.02	3	3	0	2100	2100	0
2/18/2025 9:42	44802	EDAN_T2	0	1	1	0	0	0	-2.02	-2.03	0	0	0	0	0	0
2/18/2025 9:42	46204	DANV_T2	123	111	-12	1.12	0.64	-0.48	0	0	0	0	0	0	0	0
2/18/2025 9:43	53501	EVIL_T2	2	2	0	0.6	0.9	0.3	-1.99	-2.02	3	3	0	2100	2100	0
2/18/2025 9:43	46203	DANV_T2	93	14	-79	0.72	0.23	-0.49	-1.08	-1.16	0	0	0	0	0	0
2/18/2025 9:43	53502	EVIL_T2	11	12	1	1.57	1.76	0.19	0	0	0	0	0	0	0	0
2/18/2025 9:43	46204	DANV_T2	123	111	-12	1.12	0.64	-0.48	0	0	0	0	0	0	0	0
2/18/2025 9:43	46206	DANV_T2	77	42	-35	0.56	0.48	-0.08	0	0	0	0	0	0	0	0
2/18/2025 9:44	53502	EVIL_T2	11	12	1	1.57	1.76	0.19	0	0	0	0	0	0	0	0
2/18/2025 9:44	46206	DANV_T2	77	42	-35	0.56	0.48	-0.08	0	0	0	0	0	0	0	0
2/18/2025 9:44	47203	FAKO_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
2/18/2025 9:44	11101	EGYP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/18/2025 9:44	53501	EVIL_T2	2	2	0	0.6	0.9	0.3	-1.99	-2.02	3	3	0	2100	2100	0
2/18/2025 9:44	46203	DANV_T2	93	14	-79	0.72	0.23	-0.49	-0.54	-0.58	0	0	0	0	0	0
2/18/2025 9:44	16102	BING_T2	1	1	0	1.4	3	1.6	0.11	0.16	0	0	0	0	0	0
2/18/2025 9:44	40501	CRES_T2	9	9	0	0.21	0.24	0.03	0	0	0	0	0	0	0	0
2/18/2025 9:44	46204	DANV_T2	123	111	-12	1.12	0.64	-0.48	0	0	0	0	0	0	0	0
2/18/2025 9:44	44801	EDAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 9:44	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 9:44	44802	EDAN_T2	0	1	1	0	0	0	-4.05	-4.07	0	0	0	0	0	0
2/18/2025 9:44	11104	EGYP_T1	2	1	-1	0.55	0	-0.55	0.61	0.57	0	0	0	0	0	0
2/18/2025 9:45	53502	EVIL_T2	12	11	-1	1.78	0.58	-1.2	0	0	0	0	0	0	0	0
2/18/2025 9:45	53501	EVIL_T2	1	3	2	1.2	0.9	-0.3	-1.99	-2.02	3	3	0	2100	2100	0
2/18/2025 9:45	54701	NEBL_T1	4	6	2	0.78	0.7	-0.08	0	0	0	0	0	0	0	0
2/18/2025 9:46	53501	EVIL_T2	1	3	2	1.2	0.9	-0.3	-3.98	-4.04	6	6	0	4200	4200	0
2/18/2025 9:46	53502	EVIL_T2	12	11	-1	1.78	0.58	-1.2	0	0	0	0	0	0	0	0
2/18/2025 9:47	52402	GRPA_T2	17	19	2	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
2/18/2025 9:47	52404	GRPA_T2	1	2	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/18/2025 9:47	53502	EVIL_T2	12	11	-1	1.78	0.58	-1.2	0	0	0	0	0	0	0	0
2/18/2025 9:47	52401	GRPA_T2	1	1	0	0.5	0.8	0.3	-0.34	-0.36	0	0	0	0	0	0
2/18/2025 9:47	52403	GRPA_T2	20	34	14	0.63	0.72	0.09	-0.34	-0.26	0	0	0	0	0	0
2/18/2025 9:47	53501	EVIL_T2	1	3	2	1.2	0.9	-0.3	-1.99	-2.02	3	3	0	2100	2100	0
2/18/2025 9:51	67402	WAKE_T2	0	0	0	0	0	0	0.63	0.72	1	1	0	600	600	0
2/18/2025 9:51	57403	SPAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 9:51	57401	SPAN_T1	3	6	3	0.5	0.48	-0.02	-0.78	-0.85	1	1	0	600	600	0
2/18/2025 9:54	11804	FRAN_T1	1	2	1	0.4	0	-0.4	1.12	1.15	0	0	0	0	0	0
2/18/2025 9:55	47103	MARL_T2	0	0	0	0	0	0	-1.49	-1.5	0	0	0	0	0	0
2/18/2025 9:55	45501	DERR_T2	0	1	1	0	0	0	1.04	0.98	4	4	0	3600	3600	0
2/18/2025 9:55	45502	DERR_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/18/2025 9:55	67402	WAKE_T2	0	0	0	0	0	0	0.63	0.72	1	1	0	600	600	0
2/18/2025 9:56	42504	ALTA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/18/2025 9:56	42501	ALTA_T2	0	0	0	0	0	0	-1.24	-1.27	1	1	0	600	600	0
2/18/2025 9:56	25402	LAHA_T2	469	504	35	1.59	1.63	0.04	-1.56	-1.55	0	0	0	0	0	0
2/18/2025 9:56	42503	ALTA_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/18/2025 9:56	45502	DERR_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/18/2025 9:56	45501	DERR_T2	0	1	1	0	0	0	0.52	0.49	2	2	0	1800	1800	0
2/18/2025 9:57	20401	ASHF_T2	8	8	0	0.51	0.57	0.06	-0.05	-0.06	1	1	0	600	600	0
2/18/2025 9:57	20402	ASHF_T2	4	2	-2	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
2/18/2025 9:57	45502	DERR_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/18/2025 9:57	45501	DERR_T2	0	1	1	0	0	0	0.52	0.49	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/18/2025 9:57	20403	ASHF_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
2/18/2025 9:58	40802	EXCH_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
2/18/2025 9:58	28403	HART_T2	0	0	0	0	0	0	-0.64	-0.62	1	1	0	900	900	0
2/18/2025 9:58	45502	DERR_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/18/2025 9:58	45501	DERR_T2	0	1	1	0	0	0	0.52	0.49	2	2	0	1800	1800	0
2/18/2025 9:58	40801	EXCH_T2	0	1	1	0	0.1	0.1	-0.35	-0.39	1	1	0	1200	1200	0
2/18/2025 9:59	40501	CRES_T2	9	5	-4	0.18	0.32	0.14	0	0	0	0	0	0	0	0
2/18/2025 9:59	45501	DERR_T2	0	1	1	0	0	0	0.52	0.49	2	2	0	1800	1800	0
2/18/2025 9:59	45502	DERR_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/18/2025 10:00	29402	BELT_T1	33	32	-1	0.55	0.55	0	0	0	0	0	0	0	0	0
2/18/2025 10:00	44801	EDAN_T2	1	1	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
2/18/2025 10:00	44802	EDAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/18/2025 10:00	29401	BELT_T1	157	166	9	0.63	0.65	0.02	0	0	1	1	0	900	900	0
2/18/2025 10:02	47401	PENS_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/18/2025 10:02	47403	PENS_T1	0	2	2	0	2.1	2.1	0	0	0	0	0	0	0	0
2/18/2025 10:03	53502	EVIL_T2	11	11	0	1.76	0.68	-1.08	0	0	0	0	0	0	0	0
2/18/2025 10:03	64101	REFR_T1	1	0	-1	0.3	0	-0.3	0.13	0.14	0	0	0	0	0	0
2/18/2025 10:03	53501	EVIL_T2	2	3	1	0.9	2.07	1.17	-2.02	-1.96	3	3	0	2100	2100	0
2/18/2025 10:04	52403	GRPA_T2	30	35	5	0.73	0.69	-0.04	-0.26	-0.29	0	0	0	0	0	0
2/18/2025 10:04	52401	GRPA_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
2/18/2025 10:04	52402	GRPA_T2	15	49	34	0.35	0.26	-0.09	0	0	0	0	0	0	0	0
2/18/2025 10:04	52404	GRPA_T2	1	2	1	0.8	1.25	0.45	0	0	0	0	0	0	0	0
2/18/2025 10:06	54001	SDLE_T1	9	5	-4	0.42	0.4	-0.02	0	0	0	0	0	0	0	0
2/18/2025 10:09	40501	CRES_T2	5	10	5	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
2/18/2025 10:10	14401	SSLA_T1	1	4	3	0.3	0.8	0.5	0	0	0	0	0	0	0	0
2/18/2025 10:10	14402	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 10:10	14403	SSLA_T1	0	0	0	0	0	0	1.03	0.97	0	0	0	0	0	0
2/18/2025 10:10	10801	CHHI_T1	2	4	2	0.2	0.53	0.33	-1.74	-1.76	3	3	0	2100	2100	0
2/18/2025 10:12	40501	CRES_T2	5	10	5	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
2/18/2025 10:12	10801	CHHI_T1	2	4	2	0.2	0.53	0.33	-3.49	-3.51	6	6	0	4200	4200	0
2/18/2025 10:12	20601	GRWO_T2	3	5	2	0.83	0.9	0.07	0.1	0.15	0	0	0	0	0	0
2/18/2025 10:12	20603	GRWO_T2	8	18	10	0.2	0.51	0.31	0	0	0	0	0	0	0	0
2/18/2025 10:13	53501	EVIL_T2	2	3	1	0.9	2.07	1.17	-1.96	-2.06	3	3	0	2100	2100	0
2/18/2025 10:13	41903	REED_T1	4	4	0	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
2/18/2025 10:13	53502	EVIL_T2	11	11	0	1.76	0.68	-1.08	0	0	0	0	0	0	0	0
2/18/2025 10:13	41902	REED_T1	1	0	-1	0.2	0	-0.2	-0.47	-0.51	1	1	0	900	900	0
2/18/2025 10:13	41901	REED_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/18/2025 10:15	22602	KIMB_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
2/18/2025 10:15	46101	MACI_T2	0	0	0	0	0	0	0.49	0.5	1	1	0	1200	1200	0
2/18/2025 10:15	22601	KIMB_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 10:16	59301	MCAL_T1	1	1	0	0.8	0.6	-0.2	-0.93	-0.9	0	0	0	0	0	0
2/18/2025 10:17	53502	EVIL_T2	11	11	0	0.69	1.26	0.57	0	0	0	0	0	0	0	0
2/18/2025 10:17	53501	EVIL_T2	2	3	1	3	2.33	-0.67	-1.96	-2.06	3	3	0	2100	2100	0
2/18/2025 10:18	57401	SPAN_T1	5	8	3	0.48	0.4	-0.08	-2.38	-2.6	3	3	0	1800	1800	0
2/18/2025 10:18	57403	SPAN_T1	2	3	1	0.1	0.33	0.23	0	0	0	0	0	0	0	0
2/18/2025 10:19	55002	NEWP_T1	1	4	3	0.1	0.25	0.15	-0.12	-0.15	0	0	0	0	0	0
2/18/2025 10:20	14401	SSLA_T1	1	4	3	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
2/18/2025 10:20	57403	SPAN_T1	2	3	1	0.1	0.33	0.23	0.27	0.27	0	0	0	0	0	0
2/18/2025 10:20	14402	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 10:20	14404	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 10:20	57401	SPAN_T1	5	8	3	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
2/18/2025 10:20	14403	SSLA_T1	0	0	0	0	0	0	1.03	0.97	0	0	0	0	0	0
2/18/2025 10:23	57403	SPAN_T1	2	3	1	0.1	0.33	0.23	0	0	0	0	0	0	0	0
2/18/2025 10:23	57401	SPAN_T1	5	8	3	0.48	0.4	-0.08	-1.73	-1.65	2	2	0	1200	1200	0
2/18/2025 10:24	41901	REED_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/18/2025 10:24	41902	REED_T1	0	0	0	0	0	0	-0.51	-0.58	1	1	0	900	900	0
2/18/2025 10:24	17401	FOHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 10:24	41903	REED_T1	4	4	0	0.63	0.1	-0.53	0	0	0	0	0	0	0	0
2/18/2025 10:26	20402	ASHF_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/18/2025 10:26	20403	ASHF_T2	2	2	0	0.65	0.1	-0.55	0.87	0.86	0	0	0	0	0	0
2/18/2025 10:26	20401	ASHF_T2	7	7	0	0.59	0.46	-0.13	0	0	0	0	0	0	0	0
2/18/2025 10:27	55105	WERT_T1	0	0	0	0	0	0	-0.32	-0.33	1	1	0	900	900	0
2/18/2025 10:27	55101	WERT_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 10:27	55103	WERT_T1	1	1	0	7.3	9.8	2.5	0	0	0	0	0	0	0	0
2/18/2025 10:27	20401	ASHF_T2	7	7	0	0.59	0.46	-0.13	0	0	0	0	0	0	0	0
2/18/2025 10:27	20402	ASHF_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/18/2025 10:27	53501	EVIL_T2	2	3	1	3	2.33	-0.67	-4.12	-3.8	6	6	0	4200	4200	0
2/18/2025 10:27	53502	EVIL_T2	11	11	0	0.69	1.26	0.57	0	0	0	0	0	0	0	0
2/18/2025 10:27	20403	ASHF_T2	2	2	0	0.65	0.1	-0.55	0	0	0	0	0	0	0	0
2/18/2025 10:29	24105	EHAZ_T1	13	23	10	2.15	1.84	-0.31	0	0	0	0	0	0	0	0
2/18/2025 10:29	53502	EVIL_T2	11	11	0	0.69	1.26	0.57	0	0	0	0	0	0	0	0
2/18/2025 10:29	24101	EHAZ_T1	57	77	20	1.54	1.55	0.01	0	0	0	0	0	0	0	0
2/18/2025 10:29	24102	EHAZ_T1	41	41	0	0.87	0.73	-0.14	0	0	0	0	0	0	0	0
2/18/2025 10:29	53501	EVIL_T2	2	3	1	3	2.33	-0.67	-4.12	-3.8	6	6	0	4200	4200	0
2/18/2025 10:29	24104	EHAZ_T1	11	3	-8	0.25	0.47	0.22	0	0	0	0	0	0	0	0
2/18/2025 10:29	24103	EHAZ_T1	6	9	3	0.27	0.4	0.13	-0.11	-0.04	0	0	0	0	0	0
2/18/2025 10:33	53901	HALI_T2	0	3	3	0	0.13	0.13	-1.3	-1.22	0	0	0	0	0	0
2/18/2025 10:33	52404	GRPA_T2	1	2	1	2.5	0	-2.5	0	0	0	0	0	0	0	0
2/18/2025 10:33	52403	GRPA_T2	18	137	119	0.87	0.6	-0.27	-0.36	-0.42	0	0	0	0	0	0
2/18/2025 10:33	53902	HALI_T2	1	1	0	3.9	4.6	0.7	0	0	0	0	0	0	0	0
2/18/2025 10:33	52402	GRPA_T2	47	115	68	0.77	0.99	0.22	0	0	0	0	0	0	0	0
2/18/2025 10:34	52402	GRPA_T2	47	115	68	0.77	0.99	0.22	0	0	0	0	0	0	0	0
2/18/2025 10:34	53901	HALI_T2	0	3	3	0	0.13	0.13	-2.59	-2.44	0	0	0	0	0	0
2/18/2025 10:34	53902	HALI_T2	1	1	0	3.9	4.6	0.7	0	0	0	0	0	0	0	0
2/18/2025 10:34	52404	GRPA_T2	1	2	1	2.5	0	-2.5	0	0	0	0	0	0	0	0
2/18/2025 10:34	52403	GRPA_T2	18	137	119	0.87	0.6	-0.27	0	0	0	0	0	0	0	0
2/18/2025 10:35	55002	NEWP_T1	0	8	8	0	0.53	0.53	0	0	0	0	0	0	0	0
2/18/2025 10:35	52502	PROG_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
2/18/2025 10:35	55001	NEWP_T1	0	0	0	0	0	0	-0.82	-0.8	1	1	0	600	600	0
2/18/2025 10:36	52502	PROG_T2	0	4	4	0	0.28	0.28	0.65	-0.31	0	1	1	0	900	900
2/18/2025 10:38	14402	SSLA_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 10:38	14401	SSLA_T1	4	4	0	0.38	0.1	-0.28	0	0	0	0	0	0	0	0
2/18/2025 10:38	14404	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 10:38	14403	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 10:40	45501	DERR_T2	0	1	1	0	0	0	0.47	0.48	2	2	0	1800	1800	0
2/18/2025 10:40	10805	CHHI_T2	7	7	0	1.83	1.92	0.09	-0.9	-0.79	1	1	0	600	600	0
2/18/2025 10:40	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 10:40	46204	DANV_T2	69	75	6	0.53	0.49	-0.04	0	0	0	0	0	0	0	0
2/18/2025 10:40	46206	DANV_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/18/2025 10:40	46203	DANV_T2	18	31	13	0.42	0.57	0.15	-0.6	-0.62	0	0	0	0	0	0
2/18/2025 10:41	24902	WHHA_T1	3	3	0	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
2/18/2025 10:41	24901	WHHA_T1	0	1	1	0	0.6	0.6	-1.12	-1.14	0	0	0	0	0	0
2/18/2025 10:42	11104	EGYP_T1	1	4	3	0.3	0	-0.3	0.52	0.54	0	0	0	0	0	0
2/18/2025 10:42	11101	EGYP_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
2/18/2025 10:42	45501	DERR_T2	0	1	1	0	0	0	0.47	0.48	2	2	0	1800	1800	0
2/18/2025 10:42	57201	ROSS_T1	0	2	2	0	0.2	0.2	-0.5	-0.44	0	0	0	0	0	0
2/18/2025 10:42	57205	ROSS_T1	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
2/18/2025 10:42	10805	CHHI_T2	7	7	0	1.83	1.92	0.09	-0.9	-0.79	1	1	0	600	600	0
2/18/2025 10:43	52502	PROG_T2	0	4	4	0	0.28	0.28	-0.31	-0.33	1	1	0	900	900	0
2/18/2025 10:44	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 10:46	20603	GRWO_T2	18	18	0	0.68	0.28	-0.4	0	0	0	0	0	0	0	0
2/18/2025 10:46	20601	GRWO_T2	3	3	0	1.47	1.33	-0.14	0.09	0.07	0	0	0	0	0	0
2/18/2025 10:47	55002	NEWP_T1	4	8	4	0.25	0.58	0.33	0	0	0	0	0	0	0	0
2/18/2025 10:47	55001	NEWP_T1	0	0	0	0	0	0	-0.8	-0.84	1	1	0	600	600	0
2/18/2025 10:47	52404	GRPA_T2	1	1	0	3.9	0	-3.9	0.49	0.43	0	0	0	0	0	0
2/18/2025 10:47	52403	GRPA_T2	107	138	31	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
2/18/2025 10:47	52402	GRPA_T2	113	102	-11	1.13	0.97	-0.16	0	0	0	0	0	0	0	0
2/18/2025 10:48	55002	NEWP_T1	4	8	4	0.25	0.58	0.33	0	0	0	0	0	0	0	0
2/18/2025 10:48	55001	NEWP_T1	0	0	0	0	0	0	-0.8	-0.84	1	1	0	600	600	0
2/18/2025 10:49	52502	PROG_T2	1	4	3	0.5	0.25	-0.25	-0.31	-0.33	1	1	0	900	900	0
2/18/2025 10:50	52502	PROG_T2	1	4	3	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
2/18/2025 10:51	52404	GRPA_T2	1	1	0	3.9	0	-3.9	0.49	0.43	0	0	0	0	0	0
2/18/2025 10:51	52502	PROG_T2	1	4	3	0.5	0.25	-0.25	-0.31	-0.33	1	1	0	900	900	0
2/18/2025 10:51	52402	GRPA_T2	113	102	-11	1.13	0.97	-0.16	0	0	0	0	0	0	0	0
2/18/2025 10:51	52403	GRPA_T2	107	138	31	0.65	0.53	-0.12	-1.27	-1.27	0	0	0	0	0	0
2/18/2025 10:52	52502	PROG_T2	1	4	3	0.5	0.25	-0.25	-0.33	-0.32	1	1	0	900	900	0
2/18/2025 10:52	42701	AUGU_T1	2	4	2	0.25	0.63	0.38	0	0	2	2	0	1800	1800	0
2/18/2025 10:52	13303	ORVI_T1	0	0	0	0	0	0	1.13	1.19	0	0	0	0	0	0
2/18/2025 10:54	52102	MEIS_T1	4	4	0	0.78	0	-0.78	0	0	1	1	0	450	450	0
2/18/2025 10:54	42701	AUGU_T1	2	4	2	0.25	0.63	0.38	0	0	2	2	0	1800	1800	0
2/18/2025 10:56	13904	SEID_T1	18	27	9	0.97	0.67	-0.3	0	0	0	0	0	0	0	0
2/18/2025 10:56	47201	FAXO_T2	0	0	0	0	0	0	-2.19	-2.19	1	1	0	1200	1200	0
2/18/2025 10:56	67605	WARW_T1	0	3	3	0	0.53	0.53	-0.87	-0.84	0	0	0	0	0	0
2/18/2025 10:56	13901	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 10:56	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 10:56	13902	SEID_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
2/18/2025 10:56	61504	EPET_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
2/18/2025 10:59	20603	GRWO_T2	18	18	0	0.68	0.28	-0.4	0	0	0	0	0	0	0	0
2/18/2025 10:59	63302	GREE_T1	0	0	0	0	0	0	0.7	0.75	0	0	0	0	0	0
2/18/2025 10:59	63306	GREE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 10:59	20601	GRWO_T2	3	3	0	1.47	1.33	-0.14	0.07	0.09	0	0	0	0	0	0
2/18/2025 10:59	63305	GREE_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 10:59	61502	EPET_T1	0	1	1	0	0.3	0.3	-2.34	-2.28	0	0	0	0	0	0
2/18/2025 10:59	41801	GOCI_T2	2	6	4	0.4	0.52	0.12	0	0	0	0	0	0	0	0
2/18/2025 11:00	22803	HAUT_T2	38	32	-6	1.49	0.91	-0.58	0	0	0	0	0	0	0	0
2/18/2025 11:00	22805	HAUT_T2	84	64	-20	1.4	1.46	0.06	0	0	0	0	0	0	0	0
2/18/2025 11:00	41801	GOCI_T2	3	6	3	0.57	0.6	0.03	0	0	0	0	0	0	0	0
2/18/2025 11:00	12301	LANA_T2	1	1	0	1.7	0	-1.7	-1.28	-0.88	0	0	0	0	0	0
2/18/2025 11:01	20601	GRWO_T2	3	3	0	1.67	1.17	-0.5	0	0	0	0	0	0	0	0
2/18/2025 11:01	20603	GRWO_T2	18	15	-3	0.54	0.28	-0.26	0	0	0	0	0	0	0	0
2/18/2025 11:02	60504	NMAN_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
2/18/2025 11:02	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 11:02	60501	NMAN_T2	11	3	-8	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/18/2025 11:04	53902	HALI_T2	1	1	0	4.6	4.7	0.1	-1.03	-0.89	0	0	0	0	0	0
2/18/2025 11:04	53901	HALI_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
2/18/2025 11:05	66201	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 11:05	66203	SISP_T2	0	0	0	0	0	0	-0.81	-0.86	2	2	0	1800	1800	0
2/18/2025 11:05	53902	HALI_T2	1	1	0	4.6	4.7	0.1	-1.03	-0.89	0	0	0	0	0	0
2/18/2025 11:05	15603	NSTR_T2	1	1	0	0.2	0.5	0.3	-0.96	-0.98	0	0	0	0	0	0
2/18/2025 11:05	53901	HALI_T2	3	0	-3	0.13	0	-0.13	-2.69	-2.62	0	0	0	0	0	0
2/18/2025 11:06	53902	HALI_T2	1	1	0	4.6	4.7	0.1	-2.06	-1.78	0	0	0	0	0	0
2/18/2025 11:06	53901	HALI_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
2/18/2025 11:07	52403	GRPA_T2	135	110	-25	0.64	0.52	-0.12	-0.43	-0.47	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/18/2025 11:07	52404	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/18/2025 11:07	52402	GRPA_T2	99	88	-11	1.02	0.67	-0.35	0	0	0	0	0	0	0	0
2/18/2025 11:08	53902	HALI_T2	1	1	0	4.6	4.7	0.1	-0.89	-0.94	0	0	0	0	0	0
2/18/2025 11:08	20402	ASHF_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/18/2025 11:08	20403	ASHF_T2	4	4	0	0.33	0.4	0.07	0.79	0.66	0	0	0	0	0	0
2/18/2025 11:08	53901	HALI_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
2/18/2025 11:08	52502	PROG_T2	4	2	-2	0.18	0.25	0.07	-0.32	-0.34	1	1	0	900	900	0
2/18/2025 11:08	20401	ASHF_T2	4	4	0	0.4	0.53	0.13	0	0	0	0	0	0	0	0
2/18/2025 11:10	53902	HALI_T2	1	1	0	4.6	4.7	0.1	-0.89	-0.94	0	0	0	0	0	0
2/18/2025 11:10	53901	HALI_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
2/18/2025 11:10	63601	LETO_T1	6	7	1	0.32	0.67	0.35	1.97	2.08	0	0	0	0	0	0
2/18/2025 11:10	52502	PROG_T2	4	2	-2	0.18	0.25	0.07	-0.32	-0.34	1	1	0	900	900	0
2/18/2025 11:10	63602	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 11:11	20402	ASHF_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/18/2025 11:11	20401	ASHF_T2	4	4	0	0.4	0.53	0.13	-0.03	-0.04	1	1	0	600	600	0
2/18/2025 11:11	47103	MARL_T2	0	0	0	0	0	0	-1.54	-1.55	0	0	0	0	0	0
2/18/2025 11:11	46004	BERW_T2	1	3	2	2	0.1	-1.9	-0.25	-0.2	0	0	0	0	0	0
2/18/2025 11:11	20403	ASHF_T2	4	4	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
2/18/2025 11:12	20402	ASHF_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/18/2025 11:12	44801	EDAN_T2	0	1	1	0	0.2	0.2	-0.24	-0.22	0	0	0	0	0	0
2/18/2025 11:12	41801	GOCI_T2	3	6	3	0.57	0.6	0.03	0	0	0	0	0	0	0	0
2/18/2025 11:12	20401	ASHF_T2	4	4	0	0.4	0.53	0.13	0	0	0	0	0	0	0	0
2/18/2025 11:12	20403	ASHF_T2	4	4	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
2/18/2025 11:12	61506	EPET_T2	0	0	0	0	0	0	-0.61	-0.64	1	1	0	900	900	0
2/18/2025 11:12	44802	EDAN_T2	1	1	0	0.6	1.2	0.6	0	0	0	0	0	0	0	0
2/18/2025 11:14	44802	EDAN_T2	1	1	0	0.6	1.2	0.6	0	0	0	0	0	0	0	0
2/18/2025 11:14	61801	EELI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 11:14	61803	EELI_T2	0	0	0	0	0	0	1.07	0.97	0	0	0	0	0	0
2/18/2025 11:14	44801	EDAN_T2	0	1	1	0	0.2	0.2	-0.48	-0.44	0	0	0	0	0	0
2/18/2025 11:15	64701	LITI_T1	0	0	0	0	0	0	0.58	0.52	0	0	0	0	0	0
2/18/2025 11:15	41801	GOCI_T2	6	6	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/18/2025 11:16	53102	WTWN_T1	0	0	0	0	0	0	-1.01	-1.03	0	0	0	0	0	0
2/18/2025 11:16	44802	EDAN_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
2/18/2025 11:16	64204	KINZ_T1	21	2	-19	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
2/18/2025 11:16	64202	KINZ_T1	2	2	0	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
2/18/2025 11:16	44801	EDAN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/18/2025 11:16	64203	KINZ_T1	0	0	0	0	0	0	-0.24	-0.75	3	3	0	2100	2100	0
2/18/2025 11:16	41801	GOCI_T2	6	6	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/18/2025 11:19	65501	MOJO_T1	0	0	0	0	0	0	-0.94	-0.8	1	1	0	900	900	0
2/18/2025 11:20	66203	SISP_T2	0	0	0	0	0	0	-0.86	-0.93	2	2	0	1800	1800	0
2/18/2025 11:20	66201	SISP_T2	0	0	0	0	0	0	-0.32	-0.23	0	0	0	0	0	0
2/18/2025 11:21	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 11:22	52402	GRPA_T2	88	74	-14	1.05	0.67	-0.38	0	0	0	0	0	0	0	0
2/18/2025 11:22	52403	GRPA_T2	94	110	16	0.56	0.57	0.01	-0.47	-0.43	0	0	0	0	0	0
2/18/2025 11:22	67602	WARW_T2	1	1	0	3.4	3.6	0.2	0.59	0.56	1	1	0	300	300	0
2/18/2025 11:23	52501	PROG_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/18/2025 11:23	46002	BERW_T2	0	0	0	0	0	0	0.46	0.49	0	0	0	0	0	0
2/18/2025 11:23	52504	PROG_T1	11	0	-11	0.11	0	-0.11	0	0	0	0	0	0	0	0
2/18/2025 11:23	67602	WARW_T2	1	1	0	3.4	3.6	0.2	1.18	1.12	2	2	0	600	600	0
2/18/2025 11:23	46004	BERW_T2	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
2/18/2025 11:24	52501	PROG_T1	6	0	-6	0.1	0	-0.1	0.66	0.64	1	1	0	300	300	0
2/18/2025 11:24	67602	WARW_T2	1	1	0	3.4	3.6	0.2	0.59	0.56	1	1	0	300	300	0
2/18/2025 11:24	52504	PROG_T1	11	0	-11	0.11	0	-0.11	0	0	0	0	0	0	0	0
2/18/2025 11:25	67602	WARW_T2	1	1	0	3.4	3.6	0.2	1.18	1.12	2	2	0	600	600	0
2/18/2025 11:26	67602	WARW_T2	1	1	0	3.4	3.6	0.2	0.59	0.56	1	1	0	300	300	0
2/18/2025 11:27	61505	EPET_T1	0	0	0	0	0	0	0.57	0.54	0	0	0	0	0	0
2/18/2025 11:27	61502	EPET_T1	1	0	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/18/2025 11:28	40902	JESH_T1	0	0	0	0	0	0	-0.25	-0.21	0	0	0	0	0	0
2/18/2025 11:28	40903	JESH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 11:28	40901	JESH_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 11:29	28101	TWLA_T1	1	67	66	1.3	1.15	-0.15	0	0	0	0	0	0	0	0
2/18/2025 11:29	45801	HEGI_T1	0	0	0	0	0	0	0.07	0.04	1	1	0	900	900	0
2/18/2025 11:30	20603	GRWO_T2	15	17	2	0.43	0	-0.43	0	0	0	0	0	0	0	0
2/18/2025 11:30	46504	LOHA_T1	1	2	1	0.1	0.7	0.6	0	0	0	0	0	0	0	0
2/18/2025 11:30	46501	LOHA_T1	1	2	1	0.5	0.7	0.2	0.02	0.04	1	1	0	1200	1200	0
2/18/2025 11:30	20601	GRWO_T2	3	3	0	1.17	0.9	-0.27	0.06	0.04	0	0	0	0	0	0
2/18/2025 11:30	21606	EYNO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 11:30	46503	LOHA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/18/2025 11:30	46506	LOHA_T1	3	3	0	2.93	3.27	0.34	0	0	0	0	0	0	0	0
2/18/2025 11:30	21601	EYNO_T1	36	94	58	0.72	0.78	0.06	0	0	0	0	0	0	0	0
2/18/2025 11:32	40901	JESH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/18/2025 11:32	47401	PENS_T1	3	4	1	0.43	1.33	0.9	1.09	1.27	0	0	0	0	0	0
2/18/2025 11:32	40902	JESH_T1	0	0	0	0	0	0	-0.25	-0.21	0	0	0	0	0	0
2/18/2025 11:32	47403	PENS_T1	5	7	2	0.76	0.69	-0.07	0	0	0	0	0	0	0	0
2/18/2025 11:32	40903	JESH_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/18/2025 11:33	40901	JESH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/18/2025 11:33	52403	GRPA_T2	103	98	-5	0.63	0.48	-0.15	-0.47	-0.43	0	0	0	0	0	0
2/18/2025 11:33	40903	JESH_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/18/2025 11:33	52402	GRPA_T2	54	72	18	0.67	0.74	0.07	0	0	0	0	0	0	0	0
2/18/2025 11:34	57403	SPAN_T1	3	4	1	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
2/18/2025 11:34	13302	ORVI_T2	9	3	-6	0.47	0.77	0.3	1.16	1.14	0	0	0	0	0	0
2/18/2025 11:34	57401	SPAN_T1	4	3	-1	0.73	0.77	0.04	0	0	0	0	0	0	0	0
2/18/2025 11:35	57403	SPAN_T1	3	4	1	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
2/18/2025 11:35	57401	SPAN_T1	4	3	-1	0.73	0.77	0.04	-0.82	-0.86	1	1	0	600	600	0
2/18/2025 11:36	67402	WAKE_T2	0	0	0	0	0	0	0.26	0.26	1	1	0	600	600	0
2/18/2025 11:36	63501	HEID_TBK1-2	0	2	2	0	0.15	0.15	1.05	0.8	3	3	0	2700	2700	0
2/18/2025 11:36	57403	SPAN_T1	3	4	1	0.23	0.18	-0.05	0.28	0.25	0	0	0	0	0	0
2/18/2025 11:36	67401	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 11:36	57401	SPAN_T1	4	3	-1	0.73	0.77	0.04	0	0	0	0	0	0	0	0
2/18/2025 11:38	57403	SPAN_T1	3	4	1	0.23	0.18	-0.05	0.25	0.26	0	0	0	0	0	0
2/18/2025 11:38	14403	SSLA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/18/2025 11:38	14402	SSLA_T1	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
2/18/2025 11:38	57404	SPAN_T2	0	0	0	0	0	0	1.41	1.39	0	0	0	0	0	0
2/18/2025 11:38	14404	SSLA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 11:38	57402	SPAN_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/18/2025 11:38	57401	SPAN_T1	4	3	-1	0.73	0.77	0.04	0	0	0	0	0	0	0	0
2/18/2025 11:38	14401	SSLA_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/18/2025 11:39	44302	BEAV_T2	3	3	0	0.77	1.07	0.3	0	0	0	0	0	0	0	0
2/18/2025 11:39	66701	STRA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 11:39	66703	STRA_T1	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
2/18/2025 11:39	67001	STHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/18/2025 11:39	44301	BEAV_T2	3	6	3	0.27	0.36	0.09	0.82	0.93	1	1	0	600	600	0
2/18/2025 11:39	67002	STHI_T2	2	3	1	0.3	0.23	-0.07	0.73	0.72	0	0	0	0	0	0
2/18/2025 11:41	65602	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/18/2025 11:41	65604	QVIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/18/2025 11:41	65601	QVIL_T2	2	4	2	0.15	0.18	0.03	0	0	0	0	0	0	0	0
2/18/2025 11:43	63804	HEMP_T1	7	9	2	1.16	1.11	-0.05	1.02	0.99	0	0	0	0	0	0
2/18/2025 11:43	65601	QVIL_T2	2	4	2	0.15	0.18	0.03	0.2	0.2	0	0	0	0	0	0
2/18/2025 11:43	65602	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/18/2025 11:43	65604	QVIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/18/2025 11:43	44301	BEAV_T2	3	6	3	0.27	0.36	0.09	0	0	0	0	0	0	0	0
2/18/2025 11:43	63803	HEMP_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
2/18/2025 11:43	44302	BEAV_T2	3	3	0	0.77	1.07	0.3	0	0	0	0	0	0	0	0
2/18/2025 11:44	11803	FRAN_T2	1	0	-1	0.4	0	-0.4	-0.36	-0.28	0	0	0	0	0	0
2/18/2025 11:44	42903	MIDD_T2	2	2	0	1.25	1.2	-0.05	0	0	0	0	0	0	0	0
2/18/2025 11:44	42902	MIDD_T2	1	5	4	0.7	0.36	-0.34	-0.15	-0.13	0	0	0	0	0	0
2/18/2025 11:44	42901	MIDD_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
2/18/2025 11:45	47901	HRDG_T1	0	0	0	0	0	0	2.28	2.16	0	0	0	0	0	0
2/18/2025 11:45	42903	MIDD_T2	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
2/18/2025 11:45	42902	MIDD_T2	3	3	0	0.4	0.47	0.07	-0.07	-0.07	0	0	0	0	0	0
2/18/2025 11:45	42901	MIDD_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 11:46	63801	HEMP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/18/2025 11:46	42902	MIDD_T2	3	3	0	0.4	0.47	0.07	0	0	0	0	0	0	0	0
2/18/2025 11:46	63804	HEMP_T1	9	9	0	1.11	1.11	0	0	0	0	0	0	0	0	0
2/18/2025 11:46	42903	MIDD_T2	2	2	0	1.2	1.2	0	0.46	0.65	1	1	0	1200	1200	0
2/18/2025 11:46	42901	MIDD_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 11:46	63802	HEMP_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
2/18/2025 11:46	63803	HEMP_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/18/2025 11:46	47901	HRDG_T1	0	0	0	0	0	0	2.28	2.16	0	0	0	0	0	0
2/18/2025 11:47	42901	MIDD_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 11:47	42902	MIDD_T2	3	3	0	0.4	0.47	0.07	-0.15	-0.13	0	0	0	0	0	0
2/18/2025 11:47	42903	MIDD_T2	2	2	0	1.2	1.2	0	0.46	0.65	1	1	0	1200	1200	0
2/18/2025 11:48	63804	HEMP_T1	9	9	0	1.11	1.11	0	0	0	0	0	0	0	0	0
2/18/2025 11:48	63803	HEMP_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/18/2025 11:48	63801	HEMP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/18/2025 11:48	63802	HEMP_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
2/18/2025 11:52	12302	LANA_T2	0	1	1	0	0	0	-1.47	-1.52	2	2	0	1500	1500	0
2/18/2025 11:52	67001	STHI_T2	1	1	0	0.2	0.2	0	0.19	0.21	0	0	0	0	0	0
2/18/2025 11:52	12301	LANA_T2	1	1	0	1.6	0.8	-0.8	0	0	0	0	0	0	0	0
2/18/2025 11:52	52502	PROG_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/18/2025 11:52	67002	STHI_T2	2	3	1	0.3	0.3	0	0	0	0	0	0	0	0	0
2/18/2025 11:53	66901	SHIL_T2	0	0	0	0	0	0	-1.24	-1.25	1	1	0	1200	1200	0
2/18/2025 11:53	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 11:54	41902	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 11:54	41903	REED_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 11:54	52403	GRPA_T2	94	44	-50	0.62	0.5	-0.12	-0.5	-0.56	0	0	0	0	0	0
2/18/2025 11:54	52402	GRPA_T2	70	63	-7	0.78	0.53	-0.25	0	0	0	0	0	0	0	0
2/18/2025 11:55	67001	STHI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/18/2025 11:55	67002	STHI_T2	2	3	1	0.3	0.3	0	0.72	0.74	0	0	0	0	0	0
2/18/2025 11:56	45501	DERR_T2	0	0	0	0	0	0	0.31	0.31	2	2	0	1800	1800	0
2/18/2025 11:56	41902	REED_T1	0	1	1	0	0	0	0.36	0.28	1	1	0	900	900	0
2/18/2025 11:56	41601	CLEV_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
2/18/2025 11:56	41903	REED_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 11:57	41902	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 11:57	41601	CLEV_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
2/18/2025 11:57	41903	REED_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 11:58	11804	FRAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 11:58	11805	FRAN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 11:58	41903	REED_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 11:58	41902	REED_T1	0	1	1	0	0	0	0.36	0.28	1	1	0	900	900	0
2/18/2025 11:58	45502	DERR_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
2/18/2025 11:59	41601	CLEV_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
2/18/2025 12:01	65602	QVIL_T2	2	21	19	0.15	0.32	0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/18/2025 12:01	65604	QVIL_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/18/2025 12:01	26803	JAFR_T1	0	0	0	0	0	0	-0.21	-0.18	1	1	0	900	900	0
2/18/2025 12:01	65601	QVIL_T2	4	50	46	0.13	0.25	0.12	0	0	0	0	0	0	0	0
2/18/2025 12:01	65603	QVIL_T2	0	11	11	0	0.14	0.14	0	0	0	0	0	0	0	0
2/18/2025 12:02	66203	SISP_T2	0	0	0	0	0	0	-0.93	-0.85	2	2	0	1800	1800	0
2/18/2025 12:03	22402	MORG_T2	17	17	0	1.86	1.58	-0.28	0	0	0	0	0	0	0	0
2/18/2025 12:03	41001	LAUR_T2	52	53	1	0.29	0.3	0.01	0	0	0	0	0	0	0	0
2/18/2025 12:03	41002	LAUR_T2	25	17	-8	0.23	0.3	0.07	0	0	0	0	0	0	0	0
2/18/2025 12:03	58402	MORO_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
2/18/2025 12:03	58401	MORO_T1	0	0	0	0	0	0	-0.83	-0.84	1	1	0	600	600	0
2/18/2025 12:05	58202	NEWV_T1	4	13	9	0.18	0.53	0.35	0.14	-0.01	0	0	0	0	0	0
2/18/2025 12:05	66902	SHIL_T2	0	3	3	0	0.2	0.2	-1.93	-1.93	0	0	0	0	0	0
2/18/2025 12:05	58201	NEWV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 12:06	64101	REFR_T1	3	4	1	0.33	0.58	0.25	0.09	0.07	0	0	0	0	0	0
2/18/2025 12:06	58402	MORO_T1	1	0	-1	0.9	0	-0.9	-0.55	-0.61	3	3	0	2400	2400	0
2/18/2025 12:06	58401	MORO_T1	0	0	0	0	0	0	-0.83	-0.84	1	1	0	600	600	0
2/18/2025 12:07	27501	WEIS_T1	8	5	-3	0.38	0	-0.38	0	0	0	0	0	0	0	0
2/18/2025 12:07	27504	WEIS_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
2/18/2025 12:07	60201	ATGL_T2	14	108	94	0.24	0.34	0.1	0	0	0	0	0	0	0	0
2/18/2025 12:08	66902	SHIL_T2	0	3	3	0	0.2	0.2	-1.93	-1.95	0	0	0	0	0	0
2/18/2025 12:08	60201	ATGL_T2	14	108	94	0.24	0.34	0.1	0.2	0.25	0	0	0	0	0	0
2/18/2025 12:09	64101	REFR_T1	3	4	1	0.33	0.58	0.25	0.09	0.07	0	0	0	0	0	0
2/18/2025 12:10	58401	MORO_T1	0	0	0	0	0	0	-0.84	-0.83	1	1	0	600	600	0
2/18/2025 12:10	58402	MORO_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
2/18/2025 12:10	24902	WHHA_T1	5	6	1	0.54	0.58	0.04	0.87	0.88	0	0	0	0	0	0
2/18/2025 12:10	24901	WHHA_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
2/18/2025 12:11	60201	ATGL_T2	14	108	94	0.24	0.34	0.1	0	0	0	0	0	0	0	0
2/18/2025 12:12	60201	ATGL_T2	14	108	94	0.24	0.34	0.1	0.2	0.25	0	0	0	0	0	0
2/18/2025 12:14	54504	ENOL_T2	0	0	0	0	0	0	-0.91	-0.95	1	1	0	600	600	0
2/18/2025 12:14	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/18/2025 12:15	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 12:15	67602	WARW_T2	1	1	0	2.4	1.2	-1.2	0.53	0.53	1	1	0	300	300	0
2/18/2025 12:15	41601	CLEV_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
2/18/2025 12:21	59102	WALK_T2	3	1	-2	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
2/18/2025 12:21	59101	WALK_T2	9	5	-4	0.41	0.5	0.09	1.32	1.41	0	0	0	0	0	0
2/18/2025 12:23	67203	TEHI_T1	0	2	2	0	0	0	3.02	3.05	3	3	0	2100	2100	0
2/18/2025 12:23	66203	SISP_T2	0	0	0	0	0	0	-0.98	-0.95	2	2	0	1800	1800	0
2/18/2025 12:23	67201	TEHI_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
2/18/2025 12:23	64101	REFR_T1	3	4	1	0.53	0.65	0.12	0.14	0.1	0	0	0	0	0	0
2/18/2025 12:25	24101	EHAZ_T1	50	79	29	1.65	1.77	0.12	0	0	0	0	0	0	0	0
2/18/2025 12:25	24102	EHAZ_T1	28	13	-15	0.61	0.6	-0.01	0	0	0	0	0	0	0	0
2/18/2025 12:25	24103	EHAZ_T1	17	13	-4	1.36	0.66	-0.7	0	0	0	0	0	0	0	0
2/18/2025 12:25	24104	EHAZ_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
2/18/2025 12:25	24105	EHAZ_T1	24	24	0	2.74	2.76	0.02	-1.81	-1.84	1	1	0	1200	1200	0
2/18/2025 12:32	55001	NEWP_T1	10	9	-1	0.73	0.81	0.08	-0.17	-0.17	0	0	0	0	0	0
2/18/2025 12:32	64802	MONE_T2	114	135	21	0.57	0.57	0	0	0	0	0	0	0	0	0
2/18/2025 12:32	64801	MONE_T2	73	80	7	0.39	0.43	0.04	83.96	83.96	0	0	0	0	0	0
2/18/2025 12:33	61304	EARL_T1	0	0	0	0	0	0	-0.74	-0.6	1	1	0	600	600	0
2/18/2025 12:33	44802	EDAN_T2	1	1	0	1.3	0.8	-0.5	-10.41	-10.49	0	0	0	0	0	0
2/18/2025 12:33	65601	QVIL_T2	47	39	-8	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
2/18/2025 12:33	64801	MONE_T2	73	80	7	0.39	0.43	0.04	0	0	0	0	0	0	0	0
2/18/2025 12:33	44801	EDAN_T2	3	4	1	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
2/18/2025 12:33	40501	CRES_T2	10	5	-5	0.32	0.34	0.02	0	0	0	0	0	0	0	0
2/18/2025 12:33	44302	BEAV_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
2/18/2025 12:33	65603	QVIL_T2	7	0	-7	0.16	0	-0.16	0.88	1.27	0	0	0	0	0	0
2/18/2025 12:33	64802	MONE_T2	114	135	21	0.57	0.57	0	0	0	0	0	0	0	0	0
2/18/2025 12:33	65602	QVIL_T2	19	14	-5	0.33	0.36	0.03	0	0	0	0	0	0	0	0
2/18/2025 12:33	44301	BEAV_T2	1	3	2	0.3	0.4	0.1	-0.13	0.43	1	1	0	600	600	0
2/18/2025 12:33	61302	EARL_T1	0	0	0	0	0	0	0.24	0.7	2	2	0	1800	1800	0
2/18/2025 12:33	40505	CRES_T1	2	1	-1	0.2	0.4	0.2	0.47	0.48	0	0	0	0	0	0
2/18/2025 12:33	65604	QVIL_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
2/18/2025 12:34	17802	GILB_T1	2	3	1	0.55	0.6	0.05	0.43	0.42	0	0	0	0	0	0
2/18/2025 12:34	11104	EGYP_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/18/2025 12:34	11103	EGYP_T1	0	0	0	0	0	0	-0.73	-0.71	0	0	0	0	0	0
2/18/2025 12:34	11102	EGYP_T1	6	0	-6	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 12:34	11101	EGYP_T1	2	1	-1	0.55	0.8	0.25	-0.69	-0.71	1	1	0	1200	1200	0
2/18/2025 12:35	40601	PIGR_T1	140	147	7	0.34	0.34	0	0.14	0.17	0	0	0	0	0	0
2/18/2025 12:35	40501	CRES_T2	10	5	-5	0.32	0.34	0.02	0	0	0	0	0	0	0	0
2/18/2025 12:35	40602	PIGR_T1	6	8	2	0.28	0.36	0.08	0	0	0	0	0	0	0	0
2/18/2025 12:35	40603	PIGR_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
2/18/2025 12:36	40602	PIGR_T1	6	8	2	0.28	0.36	0.08	0	0	0	0	0	0	0	0
2/18/2025 12:36	40601	PIGR_T1	140	147	7	0.34	0.34	0	0	0	0	0	0	0	0	0
2/18/2025 12:36	40603	PIGR_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
2/18/2025 12:37	57203	ROSS_T1	2	2	0	0.1	0.2	0.1	0	-0.02	0	0	0	0	0	0
2/18/2025 12:37	57205	ROSS_T1	2	4	2	1.6	0.93	-0.67	0	0	0	0	0	0	0	0
2/18/2025 12:37	57201	ROSS_T1	11	24	13	0.25	0.27	0.02	0	0	0	0	0	0	0	0
2/18/2025 12:38	66505	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/18/2025 12:38	66504	SMAN_T2	1	2	1	0.2	0.3	0.1	-0.19	-0.27	0	0	0	0	0	0
2/18/2025 12:38	66502	SMAN_T2	2	5	3	0.15	0.24	0.09	0	0	0	0	0	0	0	0
2/18/2025 12:38	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 12:38	67605	WARW_T1	3	6	3	0.33	0.43	0.1	-0.88	-0.9	0	0	0	0	0	0
2/18/2025 12:39	67605	WARW_T1	3	6	3	0.33	0.43	0.1	-0.88	-0.9	0	0	0	0	0	0
2/18/2025 12:39	41601	CLEV_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
2/18/2025 12:39	44802	EDAN_T2	1	1	0	1.3	0.8	-0.5	-2.1	-2.09	0	0	0	0	0	0
2/18/2025 12:39	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 12:39	44801	EDAN_T2	3	4	1	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
2/18/2025 12:39	66701	STRA_T1	0	1	1	0	0	0	0.68	0.67	0	0	0	0	0	0
2/18/2025 12:39	41902	REED_T1	0	2	2	0	0	0	0.52	0.62	2	2	0	1800	1800	0
2/18/2025 12:39	44202	POIN_T2	0	0	0	0	0	0	-0.73	-0.68	1	1	0	1200	1200	0
2/18/2025 12:39	56501	ROCK_T2	22	28	6	0.34	0.28	-0.06	-1.83	-1.84	0	0	0	0	0	0
2/18/2025 12:39	66703	STRA_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
2/18/2025 12:39	67603	WARW_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
2/18/2025 12:40	56501	ROCK_T2	22	28	6	0.34	0.28	-0.06	-3.66	-3.69	0	0	0	0	0	0
2/18/2025 12:40	55002	NEWP_T1	10	9	-1	0.73	0.81	0.08	-0.17	-0.18	0	0	0	0	0	0
2/18/2025 12:40	41902	REED_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 12:41	56501	ROCK_T2	22	28	6	0.34	0.28	-0.06	-1.83	-1.84	0	0	0	0	0	0
2/18/2025 12:41	67605	WARW_T1	3	6	3	0.33	0.43	0.1	-0.88	-0.9	0	0	0	0	0	0
2/18/2025 12:42	42301	MOWR_T2	2	3	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/18/2025 12:42	42302	MOWR_T2	10	7	-3	0.21	0.21	0	-0.44	-0.41	0	0	0	0	0	0
2/18/2025 12:43	40501	CRES_T2	10	5	-5	0.32	0.34	0.02	0	0	0	0	0	0	0	0
2/18/2025 12:43	41601	CLEV_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
2/18/2025 12:43	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 12:44	65601	QVIL_T2	47	39	-8	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
2/18/2025 12:44	65604	QVIL_T2	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
2/18/2025 12:44	65603	QVIL_T2	7	0	-7	0.16	0	-0.16	0.63	0.74	0	0	0	0	0	0
2/18/2025 12:44	61505	EPET_T1	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
2/18/2025 12:44	65602	QVIL_T2	19	14	-5	0.33	0.36	0.03	0	0	0	0	0	0	0	0
2/18/2025 12:44	56501	ROCK_T2	22	28	6	0.34	0.28	-0.06	-3.66	-3.69	0	0	0	0	0	0
2/18/2025 12:44	54505	ENOL_T2	1	1	0	0.5	0.5	0	-0.66	-0.66	1	1	0	600	600	0
2/18/2025 12:45	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/18/2025 12:45	54501	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 12:45	54504	ENOL_T2	0	0	0	0	0	0	-0.97	-0.95	1	1	0	600	600	0
2/18/2025 12:46	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/18/2025 12:46	64204	KINZ_T1	25	28	3	0.51	0.52	0.01	0	0	0	0	0	0	0	0
2/18/2025 12:46	64203	KINZ_T1	0	0	0	0	0	0	-0.71	-0.14	3	2	-1	2100	1800	-300
2/18/2025 12:46	54501	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 12:46	54504	ENOL_T2	0	0	0	0	0	0	-0.97	-0.95	1	1	0	600	600	0
2/18/2025 12:47	64801	MONE_T2	72	80	8	0.38	0.44	0.06	83.96	83.96	0	0	0	0	0	0
2/18/2025 12:47	64802	MONE_T2	115	135	20	0.52	0.56	0.04	0	0	0	0	0	0	0	0
2/18/2025 12:50	57203	ROSS_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/18/2025 12:50	57205	ROSS_T1	2	4	2	1.7	0.95	-0.75	0	0	0	0	0	0	0	0
2/18/2025 12:50	57201	ROSS_T1	17	23	6	0.3	0.24	-0.06	-0.61	-0.52	0	0	0	0	0	0
2/18/2025 12:53	52402	GRPA_T2	48	56	8	0.81	0.66	-0.15	0	0	0	0	0	0	0	0
2/18/2025 12:53	52403	GRPA_T2	29	28	-1	0.67	0.61	-0.06	-0.54	-0.48	0	0	0	0	0	0
2/18/2025 12:54	41602	CLEV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 12:54	43802	SWIL_T1	0	0	0	0	0	0	-0.08	-0.02	1	1	0	600	600	0
2/18/2025 12:54	43801	SWIL_T1	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 12:54	40201	BEGA_T2	3	1	-2	0.33	0.5	0.17	0	0	0	0	0	0	0	0
2/18/2025 12:54	41601	CLEV_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
2/18/2025 12:55	40201	BEGA_T2	3	1	-2	0.33	0.5	0.17	0	0	0	0	0	0	0	0
2/18/2025 12:55	63602	LETO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 12:55	63601	LETO_T1	6	6	0	0.42	0.52	0.1	0	0	0	0	0	0	0	0
2/18/2025 12:55	41601	CLEV_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
2/18/2025 12:55	41602	CLEV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 12:56	67901	WNHO_T2	0	0	0	0	0	0	0.44	0.54	1	1	0	900	900	0
2/18/2025 12:56	40201	BEGA_T2	3	1	-2	0.33	0.5	0.17	0	0	0	0	0	0	0	0
2/18/2025 12:59	45002	LIME_2	1	1	0	4.9	4.6	-0.3	0	0	0	0	0	0	0	0
2/18/2025 12:59	61703	ELIZ_T1	37	55	18	0.31	0.26	-0.05	0	0	0	0	0	0	0	0
2/18/2025 12:59	45001	LIME_2	7	12	5	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
2/18/2025 12:59	61803	EELI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 12:59	61701	ELIZ_T1	4	3	-1	1.93	2.4	0.47	1.62	0.43	0	0	0	0	0	0
2/18/2025 12:59	45003	LIME_2	2	3	1	1.65	1.75	0.1	0	0	0	0	0	0	0	0
2/18/2025 12:59	61801	EELI_T2	8	12	4	0.58	0.48	-0.1	0	0	0	0	0	0	0	0
2/18/2025 13:00	64204	KINZ_T1	28	24	-4	0.52	0.5	-0.02	0	0	0	0	0	0	0	0
2/18/2025 13:00	64202	KINZ_T1	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
2/18/2025 13:00	20603	GRWO_T2	12	13	1	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
2/18/2025 13:00	16102	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 13:00	20601	GRWO_T2	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
2/18/2025 13:00	53602	DALM_T2	0	0	0	0	0	0	-0.5	-0.52	1	1	0	600	600	0
2/18/2025 13:00	16103	BING_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
2/18/2025 13:00	16101	BING_T2	2	2	0	0.65	0.7	0.05	0.53	0.51	0	0	0	0	0	0
2/18/2025 13:00	53601	DALM_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 13:02	45001	LIME_2	8	20	12	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
2/18/2025 13:02	45002	LIME_2	1	1	0	4.6	4.4	-0.2	0	0	0	0	0	0	0	0
2/18/2025 13:02	45003	LIME_2	2	3	1	1.8	1.6	-0.2	0.59	0.59	0	0	0	0	0	0
2/18/2025 13:02	40201	BEGA_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/18/2025 13:03	45001	LIME_2	8	20	12	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
2/18/2025 13:03	45002	LIME_2	1	1	0	4.6	4.4	-0.2	0	0	0	0	0	0	0	0
2/18/2025 13:03	45003	LIME_2	2	3	1	1.8	1.6	-0.2	0.59	0.59	0	0	0	0	0	0
2/18/2025 13:04	45001	LIME_2	8	20	12	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
2/18/2025 13:04	45002	LIME_2	1	1	0	4.6	4.4	-0.2	0	0	0	0	0	0	0	0
2/18/2025 13:04	45003	LIME_2	2	3	1	1.8	1.6	-0.2	0.59	0.59	0	0	0	0	0	0
2/18/2025 13:05	42903	MIDD_T2	2	2	0	0.55	0.4	-0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/18/2025 13:05	66902	SHIL_T2	3	2	-1	0.17	0.2	0.03	0	0	0	0	0	0	0	0
2/18/2025 13:05	61102	BERK_T5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 13:05	64101	REFR_T1	4	4	0	0.85	0.7	-0.15	0.04	0.05	0	0	0	0	0	0
2/18/2025 13:05	66901	SHIL_T2	1	2	1	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
2/18/2025 13:05	61101	BERK_T5	2	3	1	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
2/18/2025 13:05	66903	SHIL_T2	0	0	0	0	0	0	-1.13	-1.12	0	0	0	0	0	0
2/18/2025 13:05	42902	MIDD_T2	3	3	0	0.73	0.6	-0.13	-0.35	-0.34	0	0	0	0	0	0
2/18/2025 13:06	52403	GRPA_T2	18	30	12	0.66	0.61	-0.05	0	0	0	0	0	0	0	0
2/18/2025 13:06	42902	MIDD_T2	3	3	0	0.73	0.6	-0.13	0	0	0	0	0	0	0	0
2/18/2025 13:06	52404	GRPA_T2	0	0	0	0	0	0	0.44	0.5	0	0	0	0	0	0
2/18/2025 13:06	42903	MIDD_T2	2	2	0	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
2/18/2025 13:06	65901	SAKR_T2	2	2	0	4.35	4.35	0	-1.1	-1.04	1	1	0	900	900	0
2/18/2025 13:06	65902	SAKR_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
2/18/2025 13:06	52402	GRPA_T2	55	42	-13	0.82	0.56	-0.26	0	0	0	0	0	0	0	0
2/18/2025 13:07	52101	MEIS_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
2/18/2025 13:07	28102	TWLA_T2	8	6	-2	1.26	0.7	-0.56	0.27	0.27	0	0	0	0	0	0
2/18/2025 13:07	52403	GRPA_T2	18	30	12	0.66	0.61	-0.05	-0.48	-0.53	0	0	0	0	0	0
2/18/2025 13:07	52402	GRPA_T2	55	42	-13	0.82	0.56	-0.26	0	0	0	0	0	0	0	0
2/18/2025 13:07	53901	HALI_T2	0	0	0	0	0	0	-1.28	-1.3	0	0	0	0	0	0
2/18/2025 13:07	53902	HALI_T2	1	1	0	4.6	4.9	0.3	0	0	0	0	0	0	0	0
2/18/2025 13:08	40201	BEGA_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/18/2025 13:08	45002	LIME_2	1	1	0	4.6	4.4	-0.2	0	0	0	0	0	0	0	0
2/18/2025 13:08	45003	LIME_2	2	3	1	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
2/18/2025 13:08	45001	LIME_2	8	20	12	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
2/18/2025 13:11	46203	DANV_T2	41	77	36	0.55	0.57	0.02	0	0	0	0	0	0	0	0
2/18/2025 13:11	67901	WNHO_T2	0	0	0	0	0	0	0.54	0.57	1	1	0	900	900	0
2/18/2025 13:11	61102	BERK_T5	0	0	0	0	0	0	0.22	0.1	1	1	0	300	300	0
2/18/2025 13:11	65902	SAKR_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
2/18/2025 13:11	46206	DANV_T2	0	0	0	0	0	0	1.97	1.99	2	2	0	2100	2100	0
2/18/2025 13:11	62105	ELAN_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
2/18/2025 13:11	46201	DANV_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/18/2025 13:11	61101	BERK_T5	2	3	1	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
2/18/2025 13:11	46204	DANV_T2	2	1	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/18/2025 13:11	65901	SAKR_T2	2	2	0	4.35	4.35	0	-1.1	-1.04	1	1	0	900	900	0
2/18/2025 13:13	62105	ELAN_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
2/18/2025 13:15	45002	LIME_2	1	1	0	4.4	4.4	0	0	0	0	0	0	0	0	0
2/18/2025 13:15	45003	LIME_2	3	2	-1	1.2	1.55	0.35	0.59	0.63	0	0	0	0	0	0
2/18/2025 13:15	53601	DALM_T2	0	1	1	0	0.7	0.7	-0.52	-0.58	1	1	0	900	900	0
2/18/2025 13:15	45001	LIME_2	6	18	12	0.4	0.24	-0.16	0	0	0	0	0	0	0	0
2/18/2025 13:16	44502	HAMI_T2	1	1	0	2.6	2.8	0.2	0	0	0	0	0	0	0	0
2/18/2025 13:16	44504	HAMI_T2	0	0	0	0	0	0	-0.93	-0.91	0	0	0	0	0	0
2/18/2025 13:19	57401	SPAN_T1	12	4	-8	0.42	0.45	0.03	-0.77	-0.22	1	0	-1	600	0	-600
2/18/2025 13:19	57403	SPAN_T1	12	7	-5	0.38	0.24	-0.14	0	0	0	0	0	0	0	0
2/18/2025 13:20	57403	SPAN_T1	12	7	-5	0.38	0.24	-0.14	0	0	0	0	0	0	0	0
2/18/2025 13:20	57401	SPAN_T1	12	4	-8	0.42	0.45	0.03	-0.77	-0.22	1	0	-1	600	0	-600
2/18/2025 13:20	45002	LIME_2	1	1	0	4.4	4.4	0	0	0	0	0	0	0	0	0
2/18/2025 13:20	45003	LIME_2	3	2	-1	1.2	1.55	0.35	0.59	0.63	0	0	0	0	0	0
2/18/2025 13:20	45001	LIME_2	6	18	12	0.4	0.24	-0.16	0	0	0	0	0	0	0	0
2/18/2025 13:21	57401	SPAN_T1	12	4	-8	0.42	0.45	0.03	-1.54	-0.44	2	0	-2	1200	0	-1200
2/18/2025 13:21	53903	HALI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 13:21	53902	HALI_T2	1	1	0	4.8	5.2	0.4	-0.98	-0.99	0	0	0	0	0	0
2/18/2025 13:21	57403	SPAN_T1	12	7	-5	0.38	0.24	-0.14	0	0	0	0	0	0	0	0
2/18/2025 13:22	66901	SHIL_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
2/18/2025 13:22	66903	SHIL_T2	0	1	1	0	0.1	0.1	-1.14	-1.19	0	0	0	0	0	0
2/18/2025 13:22	66902	SHIL_T2	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/18/2025 13:23	66901	SHIL_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
2/18/2025 13:23	66903	SHIL_T2	0	1	1	0	0.1	0.1	-3.42	-3.57	0	0	0	0	0	0
2/18/2025 13:23	66902	SHIL_T2	2	3	1	0.1	0.2	0.1	-1.94	-1.96	0	0	0	0	0	0
2/18/2025 13:25	60801	BUCK_T1	8	5	-3	0.21	0.26	0.05	0	0	0	0	0	0	0	0
2/18/2025 13:25	60803	BUCK_T1	17	18	1	0.55	0.51	-0.04	-0.86	-0.86	2	2	0	1200	1200	0
2/18/2025 13:26	60803	BUCK_T1	17	18	1	0.55	0.51	-0.04	-0.86	-0.86	2	2	0	1200	1200	0
2/18/2025 13:26	60801	BUCK_T1	8	5	-3	0.21	0.26	0.05	0.43	0.46	0	0	0	0	0	0
2/18/2025 13:27	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	-0.66	-0.66	1	1	0	600	600	0
2/18/2025 13:27	60801	BUCK_T1	8	5	-3	0.21	0.26	0.05	0	0	0	0	0	0	0	0
2/18/2025 13:27	60803	BUCK_T1	17	18	1	0.55	0.51	-0.04	0	0	0	0	0	0	0	0
2/18/2025 13:27	54502	ENOL_T2	0	0	0	0	0	0	-1.98	-1.97	1	1	0	600	600	0
2/18/2025 13:28	60803	BUCK_T1	17	18	1	0.55	0.51	-0.04	0	0	0	0	0	0	0	0
2/18/2025 13:28	57403	SPAN_T1	12	7	-5	0.38	0.24	-0.14	0	0	0	0	0	0	0	0
2/18/2025 13:28	57401	SPAN_T1	12	4	-8	0.42	0.45	0.03	-0.22	-0.27	0	0	0	0	0	0
2/18/2025 13:28	60801	BUCK_T1	8	5	-3	0.21	0.26	0.05	0.21	0.23	0	0	0	0	0	0
2/18/2025 13:29	64802	MONE_T2	117	132	15	0.51	0.55	0.04	0	0	0	0	0	0	0	0
2/18/2025 13:29	64801	MONE_T2	69	80	11	0.37	0.44	0.07	83.96	83.96	0	0	0	0	0	0
2/18/2025 13:30	45003	LIME_2	2	4	2	1.45	2.25	0.8	0.63	0.62	0	0	0	0	0	0
2/18/2025 13:30	45002	LIME_2	1	1	0	4.1	4.4	0.3	0	0	0	0	0	0	0	0
2/18/2025 13:30	45001	LIME_2	17	58	41	0.25	0.21	-0.04	0	0	0	0	0	0	0	0
2/18/2025 13:31	45003	LIME_2	2	4	2	1.45	2.25	0.8	0.63	0.62	0	0	0	0	0	0
2/18/2025 13:31	45001	LIME_2	17	58	41	0.25	0.21	-0.04	0	0	0	0	0	0	0	0
2/18/2025 13:31	45002	LIME_2	1	1	0	4.1	4.4	0.3	0	0	0	0	0	0	0	0
2/18/2025 13:32	54505	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
2/18/2025 13:32	54502	ENOL_T2	0	0	0	0	0	0	-1.98	-1.97	1	1	0	600	600	0
2/18/2025 13:33	45002	LIME_2	1	1	0	4.1	4.4	0.3	0	0	0	0	0	0	0	0
2/18/2025 13:33	45003	LIME_2	2	4	2	1.45	2.25	0.8	1.88	1.85	0	0	0	0	0	0
2/18/2025 13:33	45001	LIME_2	17	58	41	0.25	0.21	-0.04	0	0	0	0	0	0	0	0
2/18/2025 13:34	57201	ROSS_T1	19	11	-8	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
2/18/2025 13:34	57205	ROSS_T1	5	4	-1	0.82	0.93	0.11	0.28	0.3	0	0	0	0	0	0
2/18/2025 13:34	57203	ROSS_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/18/2025 13:37	53902	HALI_T2	1	1	0	4.9	5.3	0.4	-0.99	-0.99	0	0	0	0	0	0
2/18/2025 13:37	15702	TANN_T2	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
2/18/2025 13:37	57203	ROSS_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/18/2025 13:37	57201	ROSS_T1	19	11	-8	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
2/18/2025 13:37	15703	TANN_T2	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
2/18/2025 13:37	57205	ROSS_T1	5	4	-1	0.82	0.93	0.11	0.6	0.64	0	0	0	0	0	0
2/18/2025 13:37	53903	HALI_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/18/2025 13:38	15702	TANN_T2	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
2/18/2025 13:38	15703	TANN_T2	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
2/18/2025 13:39	41302	FISH_T2	14	20	6	1.24	2.22	0.98	0	0	0	0	0	0	0	0
2/18/2025 13:39	15702	TANN_T2	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
2/18/2025 13:39	41304	FISH_T2	21	33	12	0.31	0.53	0.22	1.36	1.33	0	0	0	0	0	0
2/18/2025 13:39	15703	TANN_T2	1	1	0	8	7.9	-0.1	0	0	0	0	0	0	0	0
2/18/2025 13:39	41306	FISH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 13:40	15701	TANN_T1	17	19	2	0.64	0.62	-0.02	0	0	0	0	0	0	0	0
2/18/2025 13:40	15704	TANN_T1	3	2	-1	0.6	0.7	0.1	-1.32	-1.39	0	0	0	0	0	0
2/18/2025 13:41	62101	ELAN_T1	0	0	0	0	0	0	0.66	1.95	2	2	0	1800	1800	0
2/18/2025 13:41	41302	FISH_T2	14	20	6	1.24	2.22	0.98	0	0	0	0	0	0	0	0
2/18/2025 13:41	41306	FISH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 13:41	41304	FISH_T2	21	33	12	0.31	0.53	0.22	1.36	1.33	0	0	0	0	0	0
2/18/2025 13:42	11904	ETEX_T2	0	0	0	0	0	0	-1.32	-1.36	0	0	0	0	0	0
2/18/2025 13:42	11901	ETEX_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 13:42	45802	HEGI_T2	47	47	0	1.47	1.53	0.06	0	0	0	0	0	0	0	0
2/18/2025 13:44	61701	ELIZ_T1	3	2	-1	2.27	3.3	1.03	0	0	0	0	0	0	0	0
2/18/2025 13:44	11901	ETEX_T2	0	1	1	0	0.2	0.2	0.36	0.35	0	0	0	0	0	0
2/18/2025 13:44	61703	ELIZ_T1	12	15	3	0.44	0.31	-0.13	-1.83	-1.91	1	1	0	900	900	0
2/18/2025 13:45	52403	GRPA_T2	13	16	3	0.68	0.64	-0.04	-0.58	-0.42	0	0	0	0	0	0
2/18/2025 13:45	23402	HONE_T2	2	2	0	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/18/2025 13:45	52402	GRPA_T2	34	43	9	0.66	0.6	-0.06	0	0	0	0	0	0	0	0
2/18/2025 13:45	23401	HONE_T2	68	39	-29	0.63	0.52	-0.11	0.2	0.15	0	0	0	0	0	0
2/18/2025 13:47	40101	HUNT_T2	34	15	-19	0.54	0.47	-0.07	-1.15	-1.15	0	0	0	0	0	0
2/18/2025 13:48	40101	HUNT_T2	34	15	-19	0.54	0.47	-0.07	0	0	0	0	0	0	0	0
2/18/2025 13:48	23401	HONE_T2	68	39	-29	0.63	0.52	-0.11	0.2	0.15	0	0	0	0	0	0
2/18/2025 13:48	23402	HONE_T2	2	2	0	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/18/2025 13:53	53903	HALI_T2	1	3	2	0.2	0.37	0.17	0	0	0	0	0	0	0	0
2/18/2025 13:53	53902	HALI_T2	1	1	0	5.2	5.4	0.2	-0.99	-0.97	0	0	0	0	0	0
2/18/2025 13:54	67904	WNHO_T1	0	0	0	0	0	0	-2.04	-2.05	2	2	0	2100	2100	0
2/18/2025 13:55	67203	TEHI_T1	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/18/2025 13:55	67201	TEHI_T1	0	10	10	0	0.37	0.37	-0.06	0.04	1	1	0	900	900	0
2/18/2025 13:56	59101	WALK_T2	2	2	0	0.9	0.3	-0.6	1.88	1.84	0	0	0	0	0	0
2/18/2025 13:56	14402	SSLA_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
2/18/2025 13:56	14401	SSLA_T1	1	1	0	0.7	1.2	0.5	-1.11	-1.11	2	1	-1	1800	600	-1200
2/18/2025 13:58	53501	EVIL_T2	1	3	2	0.7	0.85	0.15	-1.34	-1.54	2	2	0	1200	1200	0
2/18/2025 13:58	53502	EVIL_T2	1	11	10	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 13:59	45002	LIME_2	1	1	0	4.4	4.6	0.2	0	0	0	0	0	0	0	0
2/18/2025 13:59	45003	LIME_2	2	4	2	1.95	2.5	0.55	0	0	0	0	0	0	0	0
2/18/2025 13:59	45001	LIME_2	15	76	61	0.21	0.3	0.09	0	0	0	0	0	0	0	0
2/18/2025 14:00	26401	INOR_T1	96	48	-48	0.66	0.87	0.21	1.39	1.41	0	0	0	0	0	0
2/18/2025 14:02	41001	LAUR_T2	76	74	-2	0.51	0.49	-0.02	0	0	0	0	0	0	0	0
2/18/2025 14:02	45002	LIME_2	1	1	0	3.3	5.4	2.1	0	0	0	0	0	0	0	0
2/18/2025 14:02	45003	LIME_2	4	3	-1	1.38	2.25	0.87	0.52	0.54	0	0	0	0	0	0
2/18/2025 14:02	45001	LIME_2	57	79	22	0.21	0.31	0.1	0	0	0	0	0	0	0	0
2/18/2025 14:02	41002	LAUR_T2	35	36	1	0.46	0.4	-0.06	-0.97	-0.97	0	0	0	0	0	0
2/18/2025 14:03	55002	NEWP_T1	9	10	1	1.16	1	-0.16	-0.22	-0.19	0	0	0	0	0	0
2/18/2025 14:03	40101	HUNT_T2	14	14	0	0.45	0.85	0.4	0	0	0	0	0	0	0	0
2/18/2025 14:04	55002	NEWP_T1	9	10	1	1.16	1	-0.16	-0.22	-0.19	0	0	0	0	0	0
2/18/2025 14:05	42201	SHEN_T2	0	1	1	0	1.7	1.7	0.25	0.23	1	1	0	600	600	0
2/18/2025 14:05	42202	SHEN_T2	2	2	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/18/2025 14:06	66504	SMAN_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
2/18/2025 14:06	66501	SMAN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
2/18/2025 14:06	66502	SMAN_T2	5	9	4	0.48	0.38	-0.1	0.26	0.29	0	0	0	0	0	0
2/18/2025 14:06	66505	SMAN_T2	3	3	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
2/18/2025 14:07	66504	SMAN_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
2/18/2025 14:07	66502	SMAN_T2	5	9	4	0.48	0.38	-0.1	0	0	0	0	0	0	0	0
2/18/2025 14:07	66503	SMAN_T2	0	0	0	0	0	0	0.42	0.47	0	0	0	0	0	0
2/18/2025 14:07	66505	SMAN_T2	3	3	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
2/18/2025 14:07	66501	SMAN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
2/18/2025 14:08	66501	SMAN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
2/18/2025 14:08	66203	SISP_T2	0	0	0	0	0	0	-0.87	-0.9	2	2	0	1800	1800	0
2/18/2025 14:08	66504	SMAN_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
2/18/2025 14:08	66502	SMAN_T2	5	9	4	0.48	0.38	-0.1	0.26	0.29	0	0	0	0	0	0
2/18/2025 14:08	66505	SMAN_T2	3	3	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
2/18/2025 14:09	66501	SMAN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
2/18/2025 14:09	66505	SMAN_T2	3	3	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
2/18/2025 14:09	66504	SMAN_T2	1	1	0	0.9	0.8	-0.1	-0.3	-0.29	0	0	0	0	0	0
2/18/2025 14:09	46001	BERW_T1	0	0	0	0	0	0	0.74	0.81	0	0	0	0	0	0
2/18/2025 14:09	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/18/2025 14:09	46005	BERW_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/18/2025 14:09	66502	SMAN_T2	5	9	4	0.48	0.38	-0.1	0.26	0.29	0	0	0	0	0	0
2/18/2025 14:10	15703	TANN_T2	1	1	0	7.9	7.8	-0.1	0	0	0	0	0	0	0	0
2/18/2025 14:10	54602	SUMM_T2	0	0	0	0	0	0	-2.44	-2.37	1	1	0	600	600	0
2/18/2025 14:10	54601	SUMM_T2	1	5	4	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
2/18/2025 14:10	41902	REED_T1	0	0	0	0	0	0	0.4	0.36	1	1	0	900	900	0
2/18/2025 14:10	18001	ZION_T1	4	4	0	4.75	4.73	-0.02	0	0	0	0	0	0	0	0
2/18/2025 14:10	15702	TANN_T2	0	0	0	0	0	0	-0.37	-0.32	0	0	0	0	0	0
2/18/2025 14:12	14802	TREI_T2	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
2/18/2025 14:12	14801	TREI_T2	1	4	3	1.2	0.63	-0.57	0.68	0.65	0	0	0	0	0	0
2/18/2025 14:13	41801	GOCI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/18/2025 14:13	22602	KIMB_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
2/18/2025 14:13	53501	EVIL_T2	2	6	4	0.6	0.46	-0.14	-1.54	-1.7	2	2	0	1200	1200	0
2/18/2025 14:13	22601	KIMB_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/18/2025 14:13	53502	EVIL_T2	11	0	-11	0.64	0	-0.64	0	0	0	0	0	0	0	0
2/18/2025 14:14	40101	HUNT_T2	14	14	0	0.45	0.85	0.4	0	0	0	0	0	0	0	0
2/18/2025 14:14	17802	GILB_T1	3	1	-2	0.77	0.1	-0.67	0.39	0.35	0	0	0	0	0	0
2/18/2025 14:14	14204	EALL_T2	0	0	0	0	0	0	0.28	0.34	0	0	0	0	0	0
2/18/2025 14:15	45003	LIME_2	2	3	1	2.35	1.85	-0.5	0	0	0	0	0	0	0	0
2/18/2025 14:15	45001	LIME_2	72	49	-23	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
2/18/2025 14:15	53501	EVIL_T2	1	7	6	1.3	0.55	-0.75	-1.54	-1.7	2	2	0	1200	1200	0
2/18/2025 14:15	45002	LIME_2	1	1	0	4.6	5.4	0.8	0	0	0	0	0	0	0	0
2/18/2025 14:17	43201	MVIL_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
2/18/2025 14:17	43202	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 14:17	45002	LIME_2	1	1	0	4.6	5.4	0.8	0	0	0	0	0	0	0	0
2/18/2025 14:17	45001	LIME_2	72	49	-23	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
2/18/2025 14:17	45003	LIME_2	2	3	1	2.35	1.85	-0.5	1.07	1.04	0	0	0	0	0	0
2/18/2025 14:18	54201	PENN_T1	8	10	2	0.76	0.77	0.01	0	0	0	0	0	0	0	0
2/18/2025 14:18	45003	LIME_2	2	3	1	2.35	1.85	-0.5	0.54	0.52	0	0	0	0	0	0
2/18/2025 14:18	45001	LIME_2	72	49	-23	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
2/18/2025 14:18	54203	PENN_T1	21	22	1	0.92	1.05	0.13	0.02	0.03	0	0	0	0	0	0
2/18/2025 14:18	45002	LIME_2	1	1	0	4.6	5.4	0.8	0	0	0	0	0	0	0	0
2/18/2025 14:18	29401	BELT_T1	52	2	-50	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
2/18/2025 14:18	29402	BELT_T1	3	1	-2	2.63	7	4.37	0	0	0	0	0	0	0	0
2/18/2025 14:19	57205	ROSS_T1	2	2	0	1.15	1.25	0.1	0	0	0	0	0	0	0	0
2/18/2025 14:19	57203	ROSS_T1	0	0	0	0	0	0	-0.02	0.01	0	0	0	0	0	0
2/18/2025 14:19	57201	ROSS_T1	5	12	7	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
2/18/2025 14:21	52403	GRPA_T2	13	17	4	0.75	0.55	-0.2	-0.42	-0.58	0	0	0	0	0	0
2/18/2025 14:21	52402	GRPA_T2	28	28	0	0.6	0.19	-0.41	0	0	0	0	0	0	0	0
2/18/2025 14:21	58101	NEKI_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
2/18/2025 14:21	58201	NEWV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 14:21	58202	NEWV_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 14:21	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 14:21	58102	NEKI_T1	1	1	0	1	1.3	0.3	0.32	0.25	0	0	0	0	0	0
2/18/2025 14:22	52403	GRPA_T2	13	17	4	0.75	0.55	-0.2	-0.58	-0.55	0	0	0	0	0	0
2/18/2025 14:22	57403	SPAN_T1	7	11	4	0.13	0.29	0.16	0	0	0	0	0	0	0	0
2/18/2025 14:22	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 14:22	52402	GRPA_T2	28	28	0	0.6	0.19	-0.41	0	0	0	0	0	0	0	0
2/18/2025 14:22	57401	SPAN_T1	4	4	0	0.38	0.45	0.07	0	0	0	0	0	0	0	0
2/18/2025 14:23	57401	SPAN_T1	4	4	0	0.38	0.45	0.07	-0.26	-0.29	0	0	0	0	0	0
2/18/2025 14:23	57403	SPAN_T1	7	11	4	0.13	0.29	0.16	0	0	0	0	0	0	0	0
2/18/2025 14:24	57203	ROSS_T1	0	0	0	0	0	0	0.01	-0.04	0	0	0	0	0	0
2/18/2025 14:24	57201	ROSS_T1	5	12	7	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
2/18/2025 14:24	60501	NMAN_T2	7	20	13	0.16	0.22	0.06	0	0	0	0	0	0	0	0
2/18/2025 14:24	60504	NMAN_T2	3	2	-1	0.43	0.45	0.02	0	0	0	0	0	0	0	0
2/18/2025 14:24	60502	NMAN_T2	1	2	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
2/18/2025 14:24	57205	ROSS_T1	2	2	0	1.15	1.25	0.1	0	0	0	0	0	0	0	0
2/18/2025 14:25	57201	ROSS_T1	5	12	7	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
2/18/2025 14:25	41902	REED_T1	0	0	0	0	0	0	0.36	0.38	1	1	0	900	900	0
2/18/2025 14:25	57203	ROSS_T1	0	0	0	0	0	0	0.01	-0.04	0	0	0	0	0	0
2/18/2025 14:25	57205	ROSS_T1	2	2	0	1.15	1.25	0.1	0	0	0	0	0	0	0	0
2/18/2025 14:26	41601	CLEV_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/18/2025 14:27	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
2/18/2025 14:27	54502	ENOL_T2	0	0	0	0	0	0	-3.94	-3.94	2	2	0	1200	1200	0
2/18/2025 14:28	41601	CLEV_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/18/2025 14:28	44802	EDAN_T2	1	1	0	0.3	0.2	-0.1	-2.09	-2.07	0	0	0	0	0	0
2/18/2025 14:28	44801	EDAN_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
2/18/2025 14:28	64402	LAND_T2	1	1	0	0.1	0.4	0.3	-0.35	-0.31	1	1	0	600	600	0
2/18/2025 14:29	44801	EDAN_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
2/18/2025 14:29	44802	EDAN_T2	1	1	0	0.3	0.2	-0.1	-8.35	-8.28	0	0	0	0	0	0
2/18/2025 14:30	53501	EVIL_T2	6	9	3	0.53	0.39	-0.14	-1.7	-1.82	2	2	0	1200	1200	0
2/18/2025 14:30	12603	MACA_T1	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
2/18/2025 14:30	12602	MACA_T1	201	172	-29	0.33	0.34	0.01	0	0	0	0	0	0	0	0
2/18/2025 14:30	12606	MACA_T1	1	0	-1	0.1	0	-0.1	-0.09	-0.08	1	1	0	900	900	0
2/18/2025 14:30	12601	MACA_T1	1	1	0	1.3	0.7	-0.6	0	0	0	0	0	0	0	0
2/18/2025 14:32	45003	LIME_2	3	2	-1	1.8	1.9	0.1	0	0	0	0	0	0	0	0
2/18/2025 14:32	45002	LIME_2	1	1	0	5.4	5.2	-0.2	0.68	0.71	0	0	0	0	0	0
2/18/2025 14:32	45001	LIME_2	46	29	-17	0.27	0.21	-0.06	0	0	0	0	0	0	0	0
2/18/2025 14:33	45702	LIND_T2	1	0	-1	0.6	1	0.4	-0.42	-0.41	0	0	0	0	0	0
2/18/2025 14:33	45002	LIME_2	1	1	0	5.4	5.2	-0.2	0.68	0.71	0	0	0	0	0	0
2/18/2025 14:33	45001	LIME_2	46	29	-17	0.27	0.21	-0.06	0	0	0	0	0	0	0	0
2/18/2025 14:33	45003	LIME_2	3	2	-1	1.8	1.9	0.1	0	0	0	0	0	0	0	0
2/18/2025 14:34	53903	HALI_T2	3	3	0	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
2/18/2025 14:34	45702	LIND_T2	1	1	0	0.6	1	0.4	-0.42	-0.41	0	0	0	0	0	0
2/18/2025 14:34	53902	HALI_T2	1	0	-1	5.4	5.4	0	0.96	-0.98	0	0	0	0	0	0
2/18/2025 14:35	53903	HALI_T2	3	3	0	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
2/18/2025 14:35	41601	CLEV_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
2/18/2025 14:35	53902	HALI_T2	1	1	0	5.4	5.4	0	-0.96	-0.98	0	0	0	0	0	0
2/18/2025 14:35	40601	PIGR_T1	45	49	4	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
2/18/2025 14:36	12603	MACA_T1	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
2/18/2025 14:36	12606	MACA_T1	1	0	-1	0.1	0	-0.1	-0.09	-0.08	1	1	0	900	900	0
2/18/2025 14:36	12602	MACA_T1	201	172	-29	0.33	0.34	0.01	-1.9	-1.89	0	0	0	0	0	0
2/18/2025 14:36	12601	MACA_T1	1	1	0	1.3	0.7	-0.6	0	0	0	0	0	0	0	0
2/18/2025 14:38	60502	NMAN_T2	2	1	-1	0.2	0.8	0.6	-0.44	-0.51	0	0	0	0	0	0
2/18/2025 14:38	60504	NMAN_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
2/18/2025 14:38	60501	NMAN_T2	11	22	11	0.15	0.22	0.07	0	0	0	0	0	0	0	0
2/18/2025 14:39	60701	BREC_T1	7	6	-1	0.49	0.48	-0.01	-0.9	-0.83	3	3	0	1800	1800	0
2/18/2025 14:40	55105	WERT_T1	0	1	1	0	0.1	0.1	-0.48	-0.47	1	1	0	900	900	0
2/18/2025 14:40	60701	BREC_T1	7	6	-1	0.49	0.48	-0.01	-1.5	-1.39	5	5	0	3000	3000	0
2/18/2025 14:41	60701	BREC_T1	7	6	-1	0.49	0.48	-0.01	-0.3	-0.28	1	1	0	600	600	0
2/18/2025 14:41	59101	WALK_T2	2	2	0	0.4	0.2	-0.2	1.58	2.11	0	0	0	0	0	0
2/18/2025 14:43	60701	BREC_T1	7	6	-1	0.49	0.48	-0.01	-0.3	-0.28	1	1	0	600	600	0
2/18/2025 14:44	60701	BREC_T1	7	6	-1	0.49	0.48	-0.01	-0.3	-0.28	1	1	0	600	600	0
2/18/2025 14:44	64101	REFR_T1	3	2	-1	0.47	0.45	-0.02	0.05	0.07	0	0	0	0	0	0
2/18/2025 14:45	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 14:45	40601	PIGR_T1	48	96	48	0.27	0.23	-0.04	0.07	0.08	0	0	0	0	0	0
2/18/2025 14:45	60701	BREC_T1	6	4	-2	0.45	0.58	0.13	-0.6	-0.56	2	2	0	1200	1200	0
2/18/2025 14:46	11302	EMMA_T1	1	0	-1	0.3	0	-0.3	-0.77	-0.8	1	1	0	600	600	0
2/18/2025 14:46	54203	PENN_T1	20	20	0	1.02	1.07	0.05	0	0.02	0	0	0	0	0	0
2/18/2025 14:46	54201	PENN_T1	8	8	0	0.68	0.63	-0.05	0	0	0	0	0	0	0	0
2/18/2025 14:48	60701	BREC_T1	6	4	-2	0.45	0.58	0.13	-0.3	-0.28	1	1	0	600	600	0
2/18/2025 14:49	60501	NMAN_T2	19	19	0	0.22	0.25	0.03	0	0	0	0	0	0	0	0
2/18/2025 14:49	52401	GRPA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 14:49	52402	GRPA_T2	28	26	-2	0.44	0.35	-0.09	0	0	0	0	0	0	0	0
2/18/2025 14:49	60502	NMAN_T2	1	1	0	0.2	0.8	0.6	-0.22	-0.26	0	0	0	0	0	0
2/18/2025 14:49	52403	GRPA_T2	16	7	-9	0.57	0.78	0.21	-0.55	-0.53	0	0	0	0	0	0
2/18/2025 14:49	60504	NMAN_T2	2	1	-1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
2/18/2025 14:49	60701	BREC_T1	6	4	-2	0.45	0.58	0.13	-0.3	-0.28	1	1	0	600	600	0
2/18/2025 14:50	60504	NMAN_T2	2	1	-1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
2/18/2025 14:50	52403	GRPA_T2	16	7	-9	0.57	0.78	0.21	0	0	0	0	0	0	0	0
2/18/2025 14:50	52402	GRPA_T2	28	26	-2	0.44	0.35	-0.09	0	0	0	0	0	0	0	0
2/18/2025 14:50	60502	NMAN_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
2/18/2025 14:50	65503	MOJO_T2	0	0	0	0	0	0	0.14	0.19	0	0	0	0	0	0
2/18/2025 14:50	52401	GRPA_T2	1	1	0	0.1	0.1	0	-0.73	-0.7	0	0	0	0	0	0
2/18/2025 14:50	60501	NMAN_T2	19	19	0	0.22	0.25	0.03	0	0	0	0	0	0	0	0
2/18/2025 14:52	66505	SMAN_T2	3	3	0	0.73	0.8	0.07	0	0	0	0	0	0	0	0
2/18/2025 14:52	14402	SSLA_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/18/2025 14:52	66501	SMAN_T2	2	2	0	0.55	0.15	-0.4	0	0	0	0	0	0	0	0
2/18/2025 14:52	66504	SMAN_T2	0	1	1	0	0.2	0.2	-0.37	-0.33	0	0	0	0	0	0
2/18/2025 14:52	14403	SSLA_T1	0	0	0	0	0	0	1.01	1.02	0	0	0	0	0	0
2/18/2025 14:52	66502	SMAN_T2	6	8	2	0.42	0.48	0.06	0	0	0	0	0	0	0	0
2/18/2025 14:52	14401	SSLA_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/18/2025 14:52	13105	NHAM_T2	7	17	10	0.4	0.61	0.21	0	0	0	0	0	0	0	0
2/18/2025 14:52	13103	NHAM_T2	0	0	0	0	0	0	-1.58	-1.55	1	1	0	600	600	0
2/18/2025 14:52	52502	PROG_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
2/18/2025 14:53	67904	WNHO_T1	0	0	0	0	0	0	-2.07	-2.05	2	2	0	2100	2100	0
2/18/2025 14:54	66501	SMAN_T2	2	2	0	0.55	0.15	-0.4	0	0	0	0	0	0	0	0
2/18/2025 14:54	67903	WNHO_T1	0	0	0	0	0	0	1.23	1.22	1	1	0	1200	1200	0
2/18/2025 14:54	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 14:54	66505	SMAN_T2	3	3	0	0.73	0.8	0.07	0	0	0	0	0	0	0	0
2/18/2025 14:54	59101	WALK_T2	1	1	0	0.2	0	-0.2	2.11	1.87	0	0	0	0	0	0
2/18/2025 14:54	67904	WNHO_T1	0	0	0	0	0	0	-8.29	-8.21	8	8	0	8400	8400	0
2/18/2025 14:54	66502	SMAN_T2	6	8	2	0.42	0.48	0.06	0.54	0.16	0	0	0	0	0	0
2/18/2025 14:55	67904	WNHO_T1	0	0	0	0	0	0	-2.07	-2.05	2	2	0	2100	2100	0
2/18/2025 14:55	66502	SMAN_T2	6	8	2	0.42	0.48	0.06	0	0	0	0	0	0	0	0
2/18/2025 14:55	66501	SMAN_T2	2	2	0	0.55	0.15	-0.4	0	0	0	0	0	0	0	0
2/18/2025 14:55	66505	SMAN_T2	3	3	0	0.73	0.8	0.07	0	0	0	0	0	0	0	0
2/18/2025 14:55	66504	SMAN_T2	0	1	1	0	0.2	0.2	-0.74	-0.67	0	0	0	0	0	0
2/18/2025 14:56	67901	WNHO_T2	3	2	-1	1.13	0.4	-0.73	0	0	0	0	0	0	0	0
2/18/2025 14:56	67904	WNHO_T1	0	0	0	0	0	0	-2.07	-2.05	2	2	0	2100	2100	0
2/18/2025 14:56	66505	SMAN_T2	3	3	0	0.73	0.8	0.07	0	0	0	0	0	0	0	0
2/18/2025 14:56	66502	SMAN_T2	6	8	2	0.42	0.48	0.06	0.27	0.08	0	0	0	0	0	0
2/18/2025 14:56	66501	SMAN_T2	2	2	0	0.55	0.15	-0.4	0	0	0	0	0	0	0	0
2/18/2025 14:56	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 14:57	41902	REED_T1	0	3	3	0	0	0	0.4	0.37	1	1	0	900	900	0
2/18/2025 14:59	63804	HEMP_T1	1	1	0	6.4	6.7	0.3	0	0	0	0	0	0	0	0
2/18/2025 14:59	63801	HEMP_T1	3	2	-1	0.73	0.6	-0.13	0	0	0	0	0	0	0	0
2/18/2025 14:59	63803	HEMP_T1	2	1	-1	0.55	0.6	0.05	0.21	0.17	0	0	0	0	0	0
2/18/2025 14:59	44301	BEAV_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/18/2025 14:59	63802	HEMP_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
2/18/2025 14:59	67201	TEHI_T1	4	2	-2	0.28	0.15	-0.13	-0.01	-0.09	1	1	0	900	900	0
2/18/2025 15:02	50502	MECH_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
2/18/2025 15:02	50506	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/18/2025 15:02	17802	GILB_T1	0	0	0	0	0	0	0.36	0.4	0	0	0	0	0	0
2/18/2025 15:02	50501	MECH_T1	4	4	0	0.48	0.63	0.15	0	0	0	0	0	0	0	0
2/18/2025 15:03	42301	MOWR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 15:03	42302	MOWR_T2	29	29	0	0.22	0.28	0.06	-0.43	-0.41	0	0	0	0	0	0
2/18/2025 15:04	42302	MOWR_T2	29	29	0	0.22	0.28	0.06	-0.43	-0.41	0	0	0	0	0	0
2/18/2025 15:04	42301	MOWR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 15:06	42301	MOWR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 15:06	52101	MEIS_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
2/18/2025 15:06	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 15:06	42302	MOWR_T2	29	29	0	0.22	0.28	0.06	-1.23	-1.41	0	0	0	0	0	0
2/18/2025 15:07	42302	MOWR_T2	29	29	0	0.22	0.28	0.06	0	0	0	0	0	0	0	0
2/18/2025 15:07	42301	MOWR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 15:07	24202	PROV_T4	0	0	0	0	0	0	-0.7	-0.7	1	1	0	1200	1200	0
2/18/2025 15:10	67903	WNHO_T1	0	0	0	0	0	0	1.22	1.27	1	1	0	1200	1200	0
2/18/2025 15:10	67904	WNHO_T1	0	0	0	0	0	0	-4.11	-2.12	4	2	-2	4200	2400	-1800
2/18/2025 15:10	67203	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 15:10	67201	TEHI_T1	2	0	-2	0.15	0	-0.15	-0.09	-0.06	1	1	0	900	900	0
2/18/2025 15:11	57203	ROSS_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
2/18/2025 15:11	46004	BERW_T2	3	3	0	1.03	0.1	-0.93	-0.28	-0.33	0	0	0	0	0	0
2/18/2025 15:11	57205	ROSS_T1	2	1	-1	0.9	1	0.1	0	0	0	0	0	0	0	0
2/18/2025 15:11	57201	ROSS_T1	3	1	-2	0.27	0.3	0.03	0	0	0	0	0	0	0	0
2/18/2025 15:11	67904	WNHO_T1	0	0	0	0	0	0	-2.05	-1.06	2	1	-1	2100	1200	-900
2/18/2025 15:12	54506	ENOL_T2	0	0	0	0	0	0	0.43	0.36	1	0	-1	600	0	-600
2/18/2025 15:12	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
2/18/2025 15:15	44301	BEAV_T2	1	1	0	2.1	0	-2.1	0	0	0	0	0	0	0	0
2/18/2025 15:15	45003	LIME_2	4	11	7	1.4	1.57	0.17	0	0	0	0	0	0	0	0
2/18/2025 15:15	45002	LIME_2	1	1	0	4.7	4	-0.7	0	0	0	0	0	0	0	0
2/18/2025 15:15	44302	BEAV_T2	0	3	3	0	0.15	0.15	0	0	0	0	0	0	0	0
2/18/2025 15:15	45001	LIME_2	8	10	2	0.2	0.55	0.35	0	0	0	0	0	0	0	0
2/18/2025 15:16	65503	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 15:17	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 15:18	12601	MACA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/18/2025 15:18	12602	MACA_T1	200	95	-105	0.31	0.35	0.04	-1.87	-1.91	0	0	0	0	0	0
2/18/2025 15:18	41204	KENM_T2	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
2/18/2025 15:20	45001	LIME_2	8	10	2	0.2	0.55	0.35	0	0	0	0	0	0	0	0
2/18/2025 15:20	45003	LIME_2	4	11	7	1.4	1.57	0.17	0.4	0.41	0	0	0	0	0	0
2/18/2025 15:20	45002	LIME_2	1	1	0	4.7	4	-0.7	0	0	0	0	0	0	0	0
2/18/2025 15:20	65502	MOJO_T2	0	0	0	0	0	0	-1.08	-1.28	1	1	0	900	900	0
2/18/2025 15:22	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 15:22	66505	SMAN_T2	3	3	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/18/2025 15:22	44201	POIN_T1	0	0	0	0	0	0	-1.36	-1.3	2	2	0	2100	2100	0
2/18/2025 15:22	66502	SMAN_T2	8	7	-1	0.48	0.41	-0.07	0.01	-0.02	0	0	0	0	0	0
2/18/2025 15:24	66502	SMAN_T2	8	7	-1	0.48	0.41	-0.07	0.01	-0.02	0	0	0	0	0	0
2/18/2025 15:24	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 15:24	66505	SMAN_T2	3	3	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/18/2025 15:26	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 15:26	66502	SMAN_T2	8	7	-1	0.48	0.41	-0.07	0.01	-0.02	0	0	0	0	0	0
2/18/2025 15:26	66505	SMAN_T2	3	3	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/18/2025 15:31	44801	EDAN_T2	1	1	0	0.8	0.7	-0.1	-0.35	-0.28	0	0	0	0	0	0
2/18/2025 15:36	43201	MVIL_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
2/18/2025 15:37	43801	SWIL_T1	2	2	0	2.85	2.95	0.1	0	0	0	0	0	0	0	0
2/18/2025 15:37	58302	NOTT_T1	203	0	-203	5.43	0	-5.43	0.15	0.36	0	0	0	0	0	0
2/18/2025 15:37	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 15:42	46004	BERW_T2	0	1	1	0	0.2	0.2	-0.34	-0.42	0	0	0	0	0	0
2/18/2025 15:46	45002	LIME_2	1	1	0	4	3.5	-0.5	0	0	0	0	0	0	0	0
2/18/2025 15:46	45001	LIME_2	7	15	8	0.93	1.05	0.12	0	0	0	0	0	0	0	0
2/18/2025 15:46	45003	LIME_2	11	47	36	0.58	0.49	-0.09	0.44	0.41	0	0	0	0	0	0
2/18/2025 15:47	43201	MVIL_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
2/18/2025 15:48	15601	NSTR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 15:48	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 15:48	15603	NSTR_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
2/18/2025 15:52	52402	GRPA_T2	30	44	14	0.62	0.69	0.07	0	0	0	0	0	0	0	0
2/18/2025 15:52	52403	GRPA_T2	8	41	33	0.68	0.59	-0.09	-0.39	-0.32	0	0	0	0	0	0
2/18/2025 15:52	52401	GRPA_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/18/2025 15:54	64101	REFR_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
2/18/2025 15:58	41801	GOCI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/18/2025 16:06	40602	PIGR_T1	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
2/18/2025 16:06	40601	PIGR_T1	37	20	-17	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
2/18/2025 16:07	40601	PIGR_T1	37	20	-17	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
2/18/2025 16:07	40602	PIGR_T1	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
2/18/2025 16:19	45002	LIME_2	1	1	0	3.5	4.1	0.6	0	0	0	0	0	0	0	0
2/18/2025 16:19	45001	LIME_2	15	8	-7	1.04	0.6	-0.44	0	0	0	0	0	0	0	0
2/18/2025 16:19	45003	LIME_2	47	49	2	0.77	0.52	-0.25	0.46	0.39	0	0	0	0	0	0
2/18/2025 16:20	52403	GRPA_T2	40	151	111	0.46	0.5	0.04	0	0	0	0	0	0	0	0
2/18/2025 16:20	52402	GRPA_T2	44	75	31	0.75	0.95	0.2	0	0	0	0	0	0	0	0
2/18/2025 16:20	52401	GRPA_T2	2	16	14	0.45	0.52	0.07	-0.59	-0.58	0	0	0	0	0	0
2/18/2025 16:23	28102	TWLA_T2	0	1	1	0	0	0	0.27	0.27	0	0	0	0	0	0
2/18/2025 16:29	46203	DANV_T2	106	91	-15	0.62	0.55	-0.07	-0.7	-0.65	0	0	0	0	0	0
2/18/2025 16:34	45003	LIME_2	20	60	40	0.58	0.74	0.16	0.39	0.44	0	0	0	0	0	0
2/18/2025 16:34	46102	MACI_T1	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
2/18/2025 16:34	45002	LIME_2	1	1	0	4.1	3.7	-0.4	0	0	0	0	0	0	0	0
2/18/2025 16:34	45001	LIME_2	8	10	2	0.51	0.63	0.12	0	0	0	0	0	0	0	0
2/18/2025 16:39	53901	HALI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 16:39	53902	HALI_T2	1	1	0	5	4.6	-0.4	0	0	0	0	0	0	0	0
2/18/2025 16:39	53903	HALI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/18/2025 16:40	67903	WNHO_T1	0	0	0	0	0	0	1.19	1.27	1	1	0	1200	1200	0
2/18/2025 16:43	45802	HEGI_T2	40	30	-10	0.64	0.47	-0.17	0.73	0.91	0	0	0	0	0	0
2/18/2025 16:44	64701	LITI_T1	0	0	0	0	0	0	0.29	0.23	0	0	0	0	0	0
2/18/2025 16:45	45003	LIME_2	49	59	10	0.74	1.09	0.35	0.44	0.48	0	0	0	0	0	0
2/18/2025 16:45	45001	LIME_2	4	13	9	0.88	0.46	-0.42	0	0	0	0	0	0	0	0
2/18/2025 16:45	45002	LIME_2	1	1	0	3.7	3.4	-0.3	0	0	0	0	0	0	0	0
2/18/2025 16:47	58201	NEWV_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/18/2025 16:47	58202	NEWV_T1	0	0	0	0	0	0	0.38	0.2	0	0	0	0	0	0
2/18/2025 16:48	20603	GRWO_T2	7	25	18	0.19	0.34	0.15	-0.42	-0.36	1	1	0	900	900	0
2/18/2025 16:48	20601	GRWO_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 16:50	40501	CRES_T2	5	14	9	0.16	0.22	0.06	0	0	0	0	0	0	0	0
2/18/2025 16:50	58201	NEWV_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/18/2025 16:50	58202	NEWV_T1	0	0	0	0	0	0	0.38	0.2	0	0	0	0	0	0
2/18/2025 16:58	11104	EGYP_T1	9	40	31	0.64	0.31	-0.33	0	0	0	0	0	0	0	0
2/18/2025 16:58	11102	EGYP_T1	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 16:58	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 17:00	16103	BING_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 17:00	16101	BING_T2	0	0	0	0	0	0	0.6	0.64	0	0	0	0	0	0
2/18/2025 17:00	16102	BING_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/18/2025 17:01	24701	FLND_T2	53	61	8	1.17	1.17	0	-0.76	-0.77	0	0	0	0	0	0
2/18/2025 17:01	24703	FLND_T2	12	47	35	0.38	0.44	0.06	0	0	0	0	0	0	0	0
2/18/2025 17:01	24702	FLND_T2	13	17	4	0.63	1.47	0.84	0	0	0	0	0	0	0	0
2/18/2025 17:09	40201	BEGA_T2	7	10	3	0.36	0.15	-0.21	0	0	0	0	0	0	0	0
2/18/2025 17:12	46002	BERW_T2	2	2	0	0.15	0.5	0.35	0	0	0	0	0	0	0	0
2/18/2025 17:12	46003	BERW_T2	3	3	0	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
2/18/2025 17:12	46004	BERW_T2	4	1	-3	0.6	0.3	-0.3	-0.36	-0.34	0	0	0	0	0	0
2/18/2025 17:16	29402	BELT_T1	1	1	0	5	6.4	1.4	0	0	0	0	0	0	0	0
2/18/2025 17:16	29401	BELT_T1	0	7	7	0	0.11	0.11	0	0	0	0	0	0	0	0
2/18/2025 17:31	67904	WNHO_T1	0	0	0	0	0	0	-1.09	-1.1	1	1	0	1200	1200	0
2/18/2025 17:32	45001	LIME_2	16	58	42	0.71	0.73	0.02	0	0	0	0	0	0	0	0
2/18/2025 17:32	45003	LIME_2	62	79	17	1.79	2.49	0.7	0.58	0.59	0	0	0	0	0	0
2/18/2025 17:32	45002	LIME_2	1	1	0	3.1	3	-0.1	0	0	0	0	0	0	0	0
2/18/2025 19:02	26401	INOR_T1	47	63	16	0.66	0.93	0.27	0.99	1	0	0	0	0	0	0
2/18/2025 19:14	16302	ALPA_T2	0	0	0	0	0	0	-1.08	-1.08	0	0	0	0	0	0
2/18/2025 19:15	17803	GILB_T2	3	7	4	0.73	0.2	-0.53	0	0	0	0	0	0	0	0
2/18/2025 19:15	17805	GILB_T2	0	1	1	0	0	0	-0.46	-0.46	0	0	0	0	0	0
2/18/2025 19:15	17804	GILB_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 19:21	64101	REFR_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
2/18/2025 19:22	44902	SCOT_T2	26	63	37	0.12	0.15	0.03	0	0	0	0	0	0	0	0
2/18/2025 19:22	44901	SCOT_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
2/18/2025 19:24	16302	ALPA_T2	0	0	0	0	0	0	-1.08	-0.92	0	0	0	0	0	0
2/18/2025 19:28	16302	ALPA_T2	0	0	0	0	0	0	-0.54	-0.46	0	0	0	0	0	0
2/18/2025 19:30	16302	ALPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:32	24902	WHHA_T1	26	36	10	1.08	0.92	-0.16	0.88	0.91	0	0	0	0	0	0
2/18/2025 19:32	24901	WHHA_T1	2	4	2	0.45	1	0.55	0	0	0	0	0	0	0	0
2/18/2025 19:39	20403	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:39	54701	NEBL_T1	1	1	0	0.3	0	-0.3	0	0	1	1	0	600	600	0
2/18/2025 19:39	20401	ASHF_T2	4	4	0	0.55	0.45	-0.1	-0.01	-0.01	1	1	0	600	600	0
2/18/2025 19:39	20402	ASHF_T2	3	6	3	0.43	0.25	-0.18	0	0	0	0	0	0	0	0
2/18/2025 19:39	49803	UNIV_T1	4	18	14	1.93	1.28	-0.65	-0.81	-0.82	0	0	0	0	0	0
2/18/2025 19:39	49804	UNIV_T1	5	2	-3	0.36	0.65	0.29	0	0	0	0	0	0	0	0
2/18/2025 19:39	24901	WHHA_T1	2	4	2	0.45	1	0.55	-0.54	-0.53	0	0	0	0	0	0
2/18/2025 19:39	24902	WHHA_T1	26	36	10	1.08	0.92	-0.16	0	0	0	0	0	0	0	0
2/18/2025 19:42	20601	GRWO_T2	4	4	0	1.48	2.23	0.75	0.07	0.1	0	0	0	0	0	0
2/18/2025 19:42	64904	MILL_T1	0	0	0	0	0	0	0.03	-0.03	0	0	0	0	0	0
2/18/2025 19:42	49803	UNIV_T1	4	18	14	1.93	1.28	-0.65	0	0	0	0	0	0	0	0
2/18/2025 19:42	49804	UNIV_T1	5	2	-3	0.36	0.65	0.29	0	0	0	0	0	0	0	0
2/18/2025 19:42	20603	GRWO_T2	18	26	8	0.84	0.73	-0.11	0	0	0	0	0	0	0	0
2/18/2025 19:43	24702	FLND_T2	0	12	12	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:43	41302	FISH_T2	14	10	-4	1.24	0.54	-0.7	0	0	0	0	0	0	0	0
2/18/2025 19:43	24701	FLND_T2	21	52	31	0.69	0.66	-0.03	-0.65	-0.66	0	0	0	0	0	0
2/18/2025 19:43	46002	BERW_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
2/18/2025 19:43	66903	SHIL_T2	0	0	0	0	0	0	-1.22	-1.23	0	0	0	0	0	0
2/18/2025 19:43	60502	NMAN_T2	0	0	0	0	0	0	-0.11	-0.14	0	0	0	0	0	0
2/18/2025 19:43	46004	BERW_T2	9	20	11	1.02	0.88	-0.14	0	0	0	0	0	0	0	0
2/18/2025 19:43	24902	WHHA_T1	26	36	10	1.08	0.92	-0.16	0	0	0	0	0	0	0	0
2/18/2025 19:43	24703	FLND_T2	71	80	9	0.56	0.78	0.22	0	0	0	0	0	0	0	0
2/18/2025 19:43	44502	HAMI_T2	1	2	1	2	2.6	0.6	0.08	0.06	0	0	0	0	0	0
2/18/2025 19:43	41304	FISH_T2	1	1	0	0	0	0	0.26	0.34	0	0	0	0	0	0
2/18/2025 19:43	60501	NMAN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/18/2025 19:43	24901	WHHA_T1	2	4	2	0.45	1	0.55	-0.54	-0.53	0	0	0	0	0	0
2/18/2025 19:43	66902	SHIL_T2	0	0	0	0	0	0	-1.86	-1.88	0	0	0	0	0	0
2/18/2025 19:44	11901	ETEK_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
2/18/2025 19:44	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:44	14403	SSLA_T1	6	10	4	1	1.05	0.05	0	0	0	0	0	0	0	0
2/18/2025 19:44	41902	REED_T1	31	59	28	0.73	0.5	-0.23	0	0	0	0	0	0	0	0
2/18/2025 19:44	16103	BING_T2	1	2	1	0.9	0	-0.9	0	0	0	0	0	0	0	0
2/18/2025 19:44	14402	SSLA_T1	3	12	9	0.67	1.08	0.41	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/18/2025 19:44	11104	EGYP_T1	2	8	6	1.55	0.6	-0.95	-0.21	-0.22	1	1	0	900	900	0
2/18/2025 19:44	29402	BELT_T1	1	1	0	6.4	6.4	0	0	0	0	0	0	0	0	0
2/18/2025 19:44	25402	LAHA_T2	104	177	73	0.85	0.75	-0.1	-0.37	-0.35	0	0	0	0	0	0
2/18/2025 19:44	16901	MECK_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:44	16902	MECK_T1	0	33	33	0	0.5	0.5	0.7	-1.99	0	0	0	0	0	0
2/18/2025 19:44	16101	BING_T2	0	2	2	0	3.5	3.5	0.7	0.71	0	0	0	0	0	0
2/18/2025 19:44	41901	REED_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 19:44	40101	HUNT_T2	40	45	5	1.15	1.24	0.09	-1.77	-1.77	0	0	0	0	0	0
2/18/2025 19:44	11101	EGYP_T1	0	0	0	0	0	0	-0.54	-0.56	1	1	0	1200	1200	0
2/18/2025 19:44	14401	SSLA_T1	0	0	0	0	0	0	-1.04	-1.04	1	1	0	600	600	0
2/18/2025 19:44	29401	BELT_T1	7	17	10	0.11	0.16	0.05	0	0	0	0	0	0	0	0
2/18/2025 19:44	42302	MOWR_T2	1	3	2	0.3	0.15	-0.15	0.81	0.81	0	0	0	0	0	0
2/18/2025 19:44	11102	EGYP_T1	12	13	1	0.62	0.75	0.13	0	0	0	0	0	0	0	0
2/18/2025 19:44	11103	EGYP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:45	46206	DANV_T2	14	12	-2	0.94	0.43	-0.51	1.95	1.92	2	2	0	2100	2100	0
2/18/2025 19:45	53501	EVIL_T2	1	1	0	0.8	0.1	-0.7	-1.86	-1.81	2	2	0	1200	1200	0
2/18/2025 19:45	44502	HAMI_T2	2	2	0	2.7	1.8	-0.9	0.04	0.03	0	0	0	0	0	0
2/18/2025 19:45	46203	DANV_T2	106	143	37	0.63	0.61	-0.02	0	0	0	0	0	0	0	0
2/18/2025 19:45	22805	HAUT_T2	313	333	20	1.26	1.13	-0.13	0	0	0	0	0	0	0	0
2/18/2025 19:45	40802	EXCH_T2	0	0	0	0	0	0	-0.78	-0.79	0	0	0	0	0	0
2/18/2025 19:45	54201	PENN_T1	7	7	0	0.44	0.5	0.06	0	0	0	0	0	0	0	0
2/18/2025 19:45	15603	NSTR_T2	2	0	-2	0.5	0	-0.5	-0.79	-0.82	0	0	0	0	0	0
2/18/2025 19:45	22803	HAUT_T2	82	126	44	1.25	1.2	-0.05	0	0	0	0	0	0	0	0
2/18/2025 19:45	66901	SHIL_T2	0	0	0	0	0	0	-1.17	-1.18	1	1	0	1200	1200	0
2/18/2025 19:45	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:45	15601	NSTR_T2	62	145	83	0.57	0.74	0.17	0	0	0	0	0	0	0	0
2/18/2025 19:45	67001	STHI_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/18/2025 19:45	67002	STHI_T2	3	3	0	0.1	0.1	0	0.7	0.68	0	0	0	0	0	0
2/18/2025 19:45	29401	BELT_T1	0	33	33	0	0.25	0.25	0	0	0	0	0	0	0	0
2/18/2025 19:45	46204	DANV_T2	13	54	41	0.3	0.44	0.14	0	0	0	0	0	0	0	0
2/18/2025 19:45	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:45	29402	BELT_T1	1	1	0	5.4	6.7	1.3	0	0	0	0	0	0	0	0
2/18/2025 19:45	17802	GILB_T1	0	0	0	0	0	0	0.7	0.62	0	0	0	0	0	0
2/18/2025 19:45	54203	PENN_T1	18	18	0	0.62	0.63	0.01	-0.59	-0.6	1	1	0	600	600	0
2/18/2025 19:45	53502	EVIL_T2	11	16	5	3.02	3.23	0.21	0	0	0	0	0	0	0	0
2/18/2025 19:45	42302	MOWR_T2	2	5	3	0.15	0.17	0.02	0	0	0	0	0	0	0	0
2/18/2025 19:46	15702	TANN_T2	21	24	3	0.51	0.3	-0.21	-0.11	-0.16	0	0	0	0	0	0
2/18/2025 19:46	28101	TWLA_T1	10	9	-1	1.08	1.3	0.22	0	0	0	0	0	0	0	0
2/18/2025 19:46	17401	FOHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:46	12602	MACA_T1	3	3	0	0.2	0.2	0	-1.9	-1.89	0	0	0	0	0	0
2/18/2025 19:46	15703	TANN_T2	1	1	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
2/18/2025 19:46	10805	CHHI_T2	13	8	-5	3.29	3.03	-0.26	-1	-0.97	1	1	0	600	600	0
2/18/2025 19:46	11507	FREE_T2	272	309	37	1.08	1.16	0.08	2.2	2.21	0	0	0	0	0	0
2/18/2025 19:46	11904	ETEX_T2	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
2/18/2025 19:46	12606	MACA_T1	14	15	1	0.26	0.35	0.09	0	0	0	0	0	0	0	0
2/18/2025 19:47	40601	PIGR_T1	103	126	23	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
2/18/2025 19:47	67001	STHI_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/18/2025 19:47	67002	STHI_T2	3	3	0	0.1	0.1	0	0.7	0.68	0	0	0	0	0	0
2/18/2025 19:47	42302	MOWR_T2	2	5	3	0.15	0.17	0.02	1.61	1.61	0	0	0	0	0	0
2/18/2025 19:47	40602	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 19:48	44902	SCOT_T2	0	10	10	0	0.13	0.13	0	0	0	0	0	0	0	0
2/18/2025 19:48	44201	POIN_T1	0	0	0	0	0	0	-1.87	-1.88	2	2	0	2100	2100	0
2/18/2025 19:48	64701	LITI_T1	0	3	3	0	0	0	0.32	0.32	0	0	0	0	0	0
2/18/2025 19:48	60701	BREC_T1	9	9	0	1.26	1.3	0.04	-0.13	-0.16	1	1	0	600	600	0
2/18/2025 19:48	13303	ORVI_T1	0	0	0	0	0	0	0.94	0.93	0	0	0	0	0	0
2/18/2025 19:48	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:48	41602	CLEV_T1	15	1	-14	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/18/2025 19:48	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:48	61506	EPET_T2	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
2/18/2025 19:48	67002	STHI_T2	3	3	0	0.1	0.1	0	0.7	0.68	0	0	0	0	0	0
2/18/2025 19:48	29402	BELT_T1	1	1	0	5.4	6.7	1.3	0	0	0	0	0	0	0	0
2/18/2025 19:48	11904	ETEX_T2	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
2/18/2025 19:48	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:48	45001	LIME_2	119	101	-18	0.9	0.68	-0.22	0	0	0	0	0	0	0	0
2/18/2025 19:48	47901	HRDG_T1	0	0	0	0	0	0	1.99	2.04	0	0	0	0	0	0
2/18/2025 19:48	64203	KINZ_T1	4	11	7	0.78	1.02	0.24	-1.69	-1.66	2	2	0	1800	1800	0
2/18/2025 19:48	45003	LIME_2	68	97	29	2	1.78	-0.22	0.65	0.68	0	0	0	0	0	0
2/18/2025 19:48	24901	WHHA_T1	3	4	1	0.6	0.65	0.05	0	0	0	0	0	0	0	0
2/18/2025 19:48	66502	SMAN_T2	0	0	0	0	0	0	-0.11	-0.02	0	0	0	0	0	0
2/18/2025 19:48	64204	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
2/18/2025 19:48	41801	GOCI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:48	24202	PROV_T4	0	0	0	0	0	0	-0.73	-0.73	1	1	0	1200	1200	0
2/18/2025 19:48	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 19:48	41802	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:48	45002	LIME_2	1	1	0	4	4	0	0	0	0	0	0	0	0	0
2/18/2025 19:48	52502	PROG_T2	1	0	-1	1.7	0	-1.7	-0.19	-0.25	1	1	0	900	900	0
2/18/2025 19:48	24902	WHHA_T1	31	46	15	0.96	1.05	0.09	0.91	0.91	0	0	0	0	0	0
2/18/2025 19:48	67001	STHI_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/18/2025 19:48	29401	BELT_T1	0	33	33	0	0.25	0.25	0	0	0	0	0	0	0	0
2/18/2025 19:48	44901	SCOT_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
2/18/2025 19:49	65604	QVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 19:49	56501	ROCK_T2	1	3	2	1	1.1	0.1	-1.36	-1.27	0	0	0	0	0	0
2/18/2025 19:49	46206	DANV_T2	14	12	-2	0.94	0.43	-0.51	0	0	0	0	0	0	0	0
2/18/2025 19:49	55002	NEWP_T1	4	4	0	1.1	1.13	0.03	-0.2	-0.22	0	0	0	0	0	0
2/18/2025 19:49	67904	WNHO_T1	0	0	0	0	0	0	-1.08	-1.1	1	1	0	1200	1200	0
2/18/2025 19:49	65603	QVIL_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
2/18/2025 19:49	60701	BREC_T1	9	9	0	1.26	1.3	0.04	-0.13	-0.16	1	1	0	600	600	0
2/18/2025 19:49	40501	CRES_T2	49	49	0	0.49	0.36	-0.13	0	0	0	0	0	0	0	0
2/18/2025 19:49	66701	STRA_T1	1	4	3	0.4	0.35	-0.05	0.67	0.65	0	0	0	0	0	0
2/18/2025 19:49	42503	ALTA_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/18/2025 19:49	67002	STHI_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 19:49	53902	HALI_T2	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
2/18/2025 19:49	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 19:49	57403	SPAN_T1	0	3	3	0	0.65	0.65	0	0	0	0	0	0	0	0
2/18/2025 19:49	65601	QVIL_T2	11	14	3	0.12	0.15	0.03	0	0	0	0	0	0	0	0
2/18/2025 19:49	53901	HALI_T2	0	0	0	0	0	0	-1.2	-1.22	0	0	0	0	0	0
2/18/2025 19:49	41901	REED_T1	2	4	2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/18/2025 19:49	57401	SPAN_T1	0	0	0	0	0	0	-1.04	-0.92	1	1	0	600	600	0
2/18/2025 19:49	56504	ROCK_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:49	55001	NEWP_T1	9	26	17	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
2/18/2025 19:49	24101	EHAZ_T1	50	89	39	2.67	2.71	0.04	0	0	0	0	0	0	0	0
2/18/2025 19:49	46003	BERW_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 19:49	41902	REED_T1	53	59	6	0.51	0.43	-0.08	0	0	0	0	0	0	0	0
2/18/2025 19:49	66504	SMAN_T2	0	1	1	0	0	0	-0.25	-0.15	0	0	0	0	0	0
2/18/2025 19:49	20601	GRWO_T2	3	6	3	2.23	2.17	-0.06	0.07	0.1	0	0	0	0	0	0
2/18/2025 19:49	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:49	53502	EVIL_T2	11	16	5	3.02	3.23	0.21	0	0	0	0	0	0	0	0
2/18/2025 19:49	24104	EHAZ_T1	0	0	0	0	0	0	-0.8	-0.81	1	1	0	1200	1200	0
2/18/2025 19:49	41802	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:49	46004	BERW_T2	10	18	8	0.91	0.68	-0.23	-0.38	-0.33	0	0	0	0	0	0
2/18/2025 19:49	45502	DERR_T2	24	13	-11	0.59	0.78	0.19	0	0	0	0	0	0	0	0
2/18/2025 19:49	24103	EHAZ_T1	8	14	6	0.65	0.61	-0.04	0	0	0	0	0	0	0	0
2/18/2025 19:49	53501	EVIL_T2	1	1	0	0.8	0.1	-0.7	-1.86	-1.81	2	2	0	1200	1200	0
2/18/2025 19:49	24102	EHAZ_T1	26	28	2	0.85	0.89	0.04	0	0	0	0	0	0	0	0
2/18/2025 19:49	43801	SWIL_T1	2	2	0	3.05	3.05	0	0	0	0	0	0	0	0	0
2/18/2025 19:49	25503	MADI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/18/2025 19:49	46204	DANV_T2	13	54	41	0.3	0.44	0.14	0	0	0	0	0	0	0	0
2/18/2025 19:49	41801	GOCI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:49	46203	DANV_T2	106	143	37	0.63	0.61	-0.02	-1.37	-1.33	0	0	0	0	0	0
2/18/2025 19:49	25501	MADI_T1	24	43	19	0.77	0.65	-0.12	0.6	0.6	0	0	0	0	0	0
2/18/2025 19:49	42501	ALTA_T2	0	0	0	0	0	0	0.15	0.1	1	1	0	600	600	0
2/18/2025 19:49	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:49	24105	EHAZ_T1	24	25	1	2.31	2.81	0.5	0	0	0	0	0	0	0	0
2/18/2025 19:49	20603	GRWO_T2	18	31	13	1.07	0.67	-0.4	0	0	0	0	0	0	0	0
2/18/2025 19:49	45501	DERR_T2	10	10	0	0.89	1.07	0.18	0.82	0.81	2	2	0	1800	1800	0
2/18/2025 19:49	67001	STHI_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/18/2025 19:49	65602	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 19:50	12602	MACA_T1	3	3	0	0.2	0.2	0	-1.9	-1.89	0	0	0	0	0	0
2/18/2025 19:50	40601	PIGR_T1	103	126	23	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
2/18/2025 19:50	53902	HALI_T2	1	1	0	3.2	3.2	0	-0.96	-0.97	0	0	0	0	0	0
2/18/2025 19:50	60701	BREC_T1	9	9	0	1.26	1.3	0.04	-0.13	-0.16	1	1	0	600	600	0
2/18/2025 19:50	52402	GRPA_T2	52	148	96	1.03	1.21	0.18	0	0	0	0	0	0	0	0
2/18/2025 19:50	13103	NHAM_T2	3	3	0	0.67	0.27	-0.4	-1.48	-1.48	1	1	0	600	600	0
2/18/2025 19:50	11302	EMMA_T1	3	3	0	0.83	0	-0.83	-0.91	-0.84	1	1	0	600	600	0
2/18/2025 19:50	40501	CRES_T2	49	49	0	0.49	0.36	-0.13	0	0	0	0	0	0	0	0
2/18/2025 19:50	46206	DANV_T2	14	12	-2	0.94	0.43	-0.51	1.95	1.92	2	2	0	2100	2100	0
2/18/2025 19:50	52502	PROG_T2	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
2/18/2025 19:50	43201	MVIL_T2	9	6	-3	0.8	0.6	-0.2	-0.27	-0.25	0	0	0	0	0	0
2/18/2025 19:50	52401	GRPA_T2	56	71	15	0.49	0.83	0.34	0	0	0	0	0	0	0	0
2/18/2025 19:50	57403	SPAN_T1	0	3	3	0	0.65	0.65	0	0	0	0	0	0	0	0
2/18/2025 19:50	24902	WHHA_T1	31	46	15	0.96	1.05	0.09	0.91	0.91	0	0	0	0	0	0
2/18/2025 19:50	21606	EYNO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:50	15702	TANN_T2	21	24	3	0.51	0.3	-0.21	-0.11	-0.16	0	0	0	0	0	0
2/18/2025 19:50	20601	GRWO_T2	3	6	3	2.23	2.17	-0.06	0	0	0	0	0	0	0	0
2/18/2025 19:50	67001	STHI_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/18/2025 19:50	23301	JEFF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:50	43202	MVIL_T2	5	5	0	0.7	0.95	0.25	0	0	0	0	0	0	0	0
2/18/2025 19:50	13105	NHAM_T2	7	8	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/18/2025 19:50	57401	SPAN_T1	0	0	0	0	0	0	-2.08	-1.85	2	2	0	1200	1200	0
2/18/2025 19:50	57203	ROSS_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
2/18/2025 19:50	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:50	46203	DANV_T2	106	143	37	0.63	0.61	-0.02	0	0	0	0	0	0	0	0
2/18/2025 19:50	42701	AUGU_T1	13	41	28	0.98	0.62	-0.36	0	0	2	2	0	1800	1800	0
2/18/2025 19:50	13102	NHAM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:50	42302	MOWR_T2	2	5	3	0.15	0.17	0.02	0.81	0.81	0	0	0	0	0	0
2/18/2025 19:50	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:50	40602	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 19:50	46204	DANV_T2	13	54	41	0.3	0.44	0.14	0	0	0	0	0	0	0	0
2/18/2025 19:50	15703	TANN_T2	1	1	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
2/18/2025 19:50	12606	MACA_T1	14	15	1	0.26	0.35	0.09	0	-0.01	1	1	0	900	900	0
2/18/2025 19:50	44801	EDAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/18/2025 19:50	23401	HONE_T2	35	42	7	0.81	0.66	-0.15	0.16	0.12	0	0	0	0	0	0
2/18/2025 19:50	10401	LIGA_T1	0	13	13	0	0.12	0.12	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/18/2025 19:50	53901	HALI_T2	0	0	0	0	0	0	-1.2	-1.22	0	0	0	0	0	0
2/18/2025 19:50	10801	CHHI_T1	5	9	4	0.78	0.53	-0.25	-1.87	-1.84	3	3	0	2100	2100	0
2/18/2025 19:50	52404	GRPA_T2	0	3	3	0	0	0	-0.12	-0.13	0	0	0	0	0	0
2/18/2025 19:50	16102	BING_T2	0	0	0	0	0	0	0.09	-1.21	0	1	1	0	1200	1200
2/18/2025 19:50	22402	MORG_T2	17	18	1	1.35	1.57	0.22	0	0	0	0	0	0	0	0
2/18/2025 19:50	22401	MORG_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 19:50	66902	SHIL_T2	0	0	0	0	0	0	-1.86	-1.88	0	0	0	0	0	0
2/18/2025 19:50	52403	GRPA_T2	17	143	126	0.86	0.7	-0.16	0	0	0	0	0	0	0	0
2/18/2025 19:50	16101	BING_T2	1	2	1	3.5	0	-3.5	0	0	0	0	0	0	0	0
2/18/2025 19:50	20603	GRWO_T2	18	31	13	1.07	0.67	-0.4	-0.35	-0.36	1	1	0	900	900	0
2/18/2025 19:50	54506	ENOL_T2	0	0	0	0	0	0	0.45	0.41	0	1	1	0	600	600
2/18/2025 19:50	44301	BEAV_T2	1	3	2	1.8	0.85	-0.95	0.18	0.16	1	1	0	600	600	0
2/18/2025 19:50	21601	EYNO_T1	101	112	11	0.58	0.62	0.04	0	0	0	0	0	0	0	0
2/18/2025 19:50	16103	BING_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/18/2025 19:50	24901	WHHA_T1	3	4	1	0.6	0.65	0.05	0	0	0	0	0	0	0	0
2/18/2025 19:50	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:50	67002	STHI_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 19:51	24105	EHAZ_T1	24	25	1	2.31	2.81	0.5	-1.8	-1.85	1	1	0	1200	1200	0
2/18/2025 19:51	55001	NEWP_T1	9	26	17	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
2/18/2025 19:51	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:51	24103	EHAZ_T1	8	14	6	0.65	0.61	-0.04	0	0	0	0	0	0	0	0
2/18/2025 19:51	52502	PROG_T2	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
2/18/2025 19:51	24102	EHAZ_T1	26	28	2	0.85	0.89	0.04	0	0	0	0	0	0	0	0
2/18/2025 19:51	24101	EHAZ_T1	50	89	39	2.67	2.71	0.04	0	0	0	0	0	0	0	0
2/18/2025 19:51	61504	EPET_T2	0	0	0	0	0	0	0.47	0.47	0	0	0	0	0	0
2/18/2025 19:51	46004	BERW_T2	10	18	8	0.91	0.68	-0.23	-0.33	-0.36	0	0	0	0	0	0
2/18/2025 19:51	52401	GRPA_T2	56	71	15	0.49	0.83	0.34	0	0	0	0	0	0	0	0
2/18/2025 19:51	52402	GRPA_T2	52	148	96	1.03	1.21	0.18	0	0	0	0	0	0	0	0
2/18/2025 19:51	52404	GRPA_T2	0	3	3	0	0	0	-0.12	-0.13	0	0	0	0	0	0
2/18/2025 19:51	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
2/18/2025 19:51	52403	GRPA_T2	17	143	126	0.86	0.7	-0.16	0	0	0	0	0	0	0	0
2/18/2025 19:51	53902	HALI_T2	1	1	0	3.2	3.2	0	-0.96	-0.97	0	0	0	0	0	0
2/18/2025 19:51	46003	BERW_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 19:51	22601	KIMB_T1	1	0	-1	1.6	0	-1.6	0	0	0	0	0	0	0	0
2/18/2025 19:51	55002	NEWP_T1	4	4	0	1.1	1.13	0.03	-0.1	-0.11	0	0	0	0	0	0
2/18/2025 19:52	40201	BEGA_T2	43	35	-8	0.54	0.4	-0.14	0	0	0	0	0	0	0	0
2/18/2025 19:52	52401	GRPA_T2	56	71	15	0.49	0.83	0.34	0	0	0	0	0	0	0	0
2/18/2025 19:52	57402	SPAN_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
2/18/2025 19:52	60201	ATGL_T2	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
2/18/2025 19:52	16101	BING_T2	1	2	1	3.5	0	-3.5	0	0	0	0	0	0	0	0
2/18/2025 19:52	45501	DERR_T2	10	10	0	0.89	1.07	0.18	0.81	0.81	2	2	0	1800	1800	0
2/18/2025 19:52	52502	PROG_T2	1	0	-1	1.7	0	-1.7	-0.25	-0.2	1	1	0	900	900	0
2/18/2025 19:52	12602	MACA_T1	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/18/2025 19:52	40602	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 19:52	12606	MACA_T1	14	15	1	0.26	0.35	0.09	-0.01	-0.01	1	1	0	900	900	0
2/18/2025 19:52	60803	BUCK_T1	1	1	0	0.1	0.1	0	-0.44	-0.43	1	1	0	600	600	0
2/18/2025 19:52	66504	SMAN_T2	0	1	1	0	0	0	-0.08	-0.1	0	0	0	0	0	0
2/18/2025 19:52	52402	GRPA_T2	52	148	96	1.03	1.21	0.18	0	0	0	0	0	0	0	0
2/18/2025 19:52	45502	DERR_T2	24	13	-11	0.59	0.78	0.19	0	0	0	0	0	0	0	0
2/18/2025 19:52	61001	DONV_T1	0	0	0	0	0	0	-0.11	-0.19	0	0	0	0	0	0
2/18/2025 19:52	53902	HALI_T2	1	1	0	3.2	3.2	0	-0.97	-0.96	0	0	0	0	0	0
2/18/2025 19:52	57203	ROSS_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
2/18/2025 19:52	16103	BING_T2	2	0	-2	0.5	0	-0.5	-1.97	-1.97	2	2	0	1500	1500	0
2/18/2025 19:52	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 19:52	52403	GRPA_T2	17	143	126	0.86	0.7	-0.16	-0.43	-0.5	0	0	0	0	0	0
2/18/2025 19:52	20403	ASHF_T2	1	4	3	0.1	0	-0.1	0.83	0.76	0	0	0	0	0	0
2/18/2025 19:52	20402	ASHF_T2	6	14	8	0.53	0.25	-0.28	0	0	0	0	0	0	0	0
2/18/2025 19:52	59101	WALK_T2	0	0	0	0	0	0	1.18	1.08	1	1	0	600	600	0
2/18/2025 19:52	41002	LAUR_T2	37	41	4	0.55	0.53	-0.02	-1.08	-1.08	0	0	0	0	0	0
2/18/2025 19:52	40601	PIGR_T1	103	126	23	0.39	0.35	-0.04	-0.1	-0.03	0	0	0	0	0	0
2/18/2025 19:52	23401	HONE_T2	35	42	7	0.81	0.66	-0.15	0.12	0.09	0	0	0	0	0	0
2/18/2025 19:52	20401	ASHF_T2	2	7	5	0.45	0.53	0.08	0	0	0	0	0	0	0	0
2/18/2025 19:52	41001	LAUR_T2	2	4	2	2.35	1.8	-0.55	0	0	0	0	0	0	0	0
2/18/2025 19:52	52404	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:52	66903	SHIL_T2	0	0	0	0	0	0	-1.23	-1.23	0	0	0	0	0	0
2/18/2025 19:53	20403	ASHF_T2	1	4	3	0.1	0	-0.1	0.83	0.76	0	0	0	0	0	0
2/18/2025 19:53	40601	PIGR_T1	103	126	23	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
2/18/2025 19:53	44902	SCOT_T2	0	10	10	0	0.13	0.13	-0.84	-0.85	0	0	0	0	0	0
2/18/2025 19:53	67904	WNHO_T1	0	0	0	0	0	0	-2.2	-2.22	2	2	0	2400	2400	0
2/18/2025 19:53	66903	SHIL_T2	0	0	0	0	0	0	-1.23	-1.23	0	0	0	0	0	0
2/18/2025 19:53	40101	HUNT_T2	38	44	6	1	1.36	0.36	-1.77	-1.75	0	0	0	0	0	0
2/18/2025 19:53	55002	NEWP_T1	4	4	0	1.1	1.13	0.03	0	0	0	0	0	0	0	0
2/18/2025 19:53	45001	LIME_2	119	101	-18	0.9	0.68	-0.22	0	0	0	0	0	0	0	0
2/18/2025 19:53	45003	LIME_2	68	97	29	2	1.78	-0.22	2.03	2.03	0	0	0	0	0	0
2/18/2025 19:53	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.19	0	0	0	0	0	0
2/18/2025 19:53	55001	NEWP_T1	9	26	17	0.33	0.3	-0.03	-0.72	-0.75	1	1	0	600	600	0
2/18/2025 19:53	57201	ROSS_T1	0	0	0	0	0	0	-0.59	-0.54	0	0	0	0	0	0
2/18/2025 19:53	64801	MONE_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
2/18/2025 19:53	65602	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 19:53	65601	QVIL_T2	11	14	3	0.12	0.15	0.03	-0.93	-0.93	1	1	0	900	900	0
2/18/2025 19:53	20401	ASHF_T2	2	7	5	0.45	0.53	0.08	0	0	0	0	0	0	0	0
2/18/2025 19:53	45502	DERR_T2	24	13	-11	0.59	0.78	0.19	0	0	0	0	0	0	0	0
2/18/2025 19:53	47203	FAXO_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/18/2025 19:53	47201	FAXO_T2	0	0	0	0	0	0	-2.1	-2.12	1	1	0	1200	1200	0
2/18/2025 19:53	63804	HEMP_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
2/18/2025 19:53	20601	GRWO_T2	3	6	3	2.23	2.17	-0.06	0	0	0	0	0	0	0	0
2/18/2025 19:53	45501	DERR_T2	10	10	0	0.89	1.07	0.18	0.81	0.81	2	2	0	1800	1800	0
2/18/2025 19:53	65604	QVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 19:53	67002	STHI_T2	3	3	0	0.1	0.1	0	0.68	0.68	0	0	0	0	0	0
2/18/2025 19:53	66703	STRA_T1	0	0	0	0	0	0	-0.61	-0.68	0	0	0	0	0	0
2/18/2025 19:53	15703	TANN_T2	1	1	0	7.5	7.4	-0.1	0	0	0	0	0	0	0	0
2/18/2025 19:53	63802	HEMP_T1	0	0	0	0	0	0	0.42	0.52	0	0	0	0	0	0
2/18/2025 19:53	40602	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 19:53	20402	ASHF_T2	6	14	8	0.53	0.25	-0.28	0	0	0	0	0	0	0	0
2/18/2025 19:53	45002	LIME_2	1	1	0	4	4	0	0	0	0	0	0	0	0	0
2/18/2025 19:53	66701	STRA_T1	1	4	3	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
2/18/2025 19:53	41602	CLEV_T1	15	1	-14	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/18/2025 19:53	42302	MOWR_T2	2	5	3	0.15	0.17	0.02	0.81	0.82	0	0	0	0	0	0
2/18/2025 19:53	15702	TANN_T2	21	24	3	0.51	0.3	-0.21	-0.16	-0.08	0	0	0	0	0	0
2/18/2025 19:53	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:53	67602	WARW_T2	1	1	0	1.3	0.9	-0.4	1.59	1.64	0	0	0	0	0	0
2/18/2025 19:53	64101	REFR_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
2/18/2025 19:53	67001	STHI_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/18/2025 19:53	47401	PENS_T1	0	0	0	0	0	0	1.04	1.04	0	0	0	0	0	0
2/18/2025 19:53	20603	GRWO_T2	18	31	13	1.07	0.67	-0.4	-0.36	-0.36	1	1	0	900	900	0
2/18/2025 19:53	47402	PENS_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 19:54	41602	CLEV_T1	15	1	-14	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/18/2025 19:54	10805	CHHI_T2	13	8	-5	3.29	3.03	-0.26	-0.97	-0.95	1	1	0	600	600	0
2/18/2025 19:54	46203	DANV_T2	106	143	37	0.63	0.61	-0.02	-1.33	-1.41	0	0	0	0	0	0
2/18/2025 19:54	40901	JESH_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
2/18/2025 19:54	44801	EDAN_T2	1	0	-1	0.1	0	-0.1	-0.5	-0.54	0	0	0	0	0	0
2/18/2025 19:54	66902	SHIL_T2	0	0	0	0	0	0	-1.88	-1.87	0	0	0	0	0	0
2/18/2025 19:54	54203	PENN_T1	18	18	0	0.62	0.63	0.01	-0.6	-0.6	1	1	0	600	600	0
2/18/2025 19:54	43802	SWIL_T1	0	0	0	0	0	0	-0.02	-0.02	1	1	0	600	600	0
2/18/2025 19:54	43801	SWIL_T1	2	2	0	3.05	3.05	0	0	0	0	0	0	0	0	0
2/18/2025 19:54	60502	NMAN_T2	0	0	0	0	0	0	-0.14	-0.19	0	0	0	0	0	0
2/18/2025 19:54	40501	CRES_T2	49	49	0	0.49	0.36	-0.13	0	0	0	0	0	0	0	0
2/18/2025 19:54	61001	DONV_T1	0	0	0	0	0	0	-0.11	-0.19	0	0	0	0	0	0
2/18/2025 19:54	10801	CHHI_T1	5	9	4	0.78	0.53	-0.25	-1.84	-1.87	3	3	0	2100	2100	0
2/18/2025 19:54	53501	EVIL_T2	1	1	0	0.8	0.1	-0.7	-1.81	-1.81	2	2	0	1200	1200	0
2/18/2025 19:54	65801	RTWN_T1	1	1	0	0.1	0	-0.1	-0.62	-0.63	1	1	0	300	300	0
2/18/2025 19:54	67904	WNHO_T1	0	0	0	0	0	0	-1.1	-1.11	1	1	0	1200	1200	0
2/18/2025 19:54	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/18/2025 19:54	41902	REED_T1	53	59	6	0.51	0.43	-0.08	0	0	0	0	0	0	0	0
2/18/2025 19:54	46204	DANV_T2	13	54	41	0.3	0.44	0.14	0	0	0	0	0	0	0	0
2/18/2025 19:54	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 19:54	56504	ROCK_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:54	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:54	46506	LOHA_T1	5	5	0	0.46	0.37	-0.09	0	0	0	0	0	0	0	0
2/18/2025 19:54	66703	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:54	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:54	52403	GRPA_T2	17	143	126	0.86	0.7	-0.16	0	0	0	0	0	0	0	0
2/18/2025 19:54	45501	DERR_T2	10	10	0	0.89	1.07	0.18	0.81	0.81	2	2	0	1800	1800	0
2/18/2025 19:54	42901	MIDD_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 19:54	42902	MIDD_T2	29	29	0	1.29	0.79	-0.5	-0.86	-0.83	1	1	0	600	600	0
2/18/2025 19:54	47403	PENS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:54	57401	SPAN_T1	0	0	0	0	0	0	-1.85	-2.1	2	2	0	1200	1200	0
2/18/2025 19:54	41801	GOCI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:54	41802	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:54	20601	GRWO_T2	3	6	3	2.23	2.17	-0.06	0	0	0	0	0	0	0	0
2/18/2025 19:54	57203	ROSS_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
2/18/2025 19:54	64101	REFR_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
2/18/2025 19:54	47402	PENS_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 19:54	40201	BEGA_T2	43	35	-8	0.54	0.4	-0.14	0	0	0	0	0	0	0	0
2/18/2025 19:54	53901	HALI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:54	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:54	41901	REED_T1	2	4	2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/18/2025 19:54	45502	DERR_T2	24	13	-11	0.59	0.78	0.19	0	0	0	0	0	0	0	0
2/18/2025 19:54	56501	ROCK_T2	1	3	2	1	1.1	0.1	-1.27	-1.29	0	0	0	0	0	0
2/18/2025 19:54	46206	DANV_T2	14	12	-2	0.94	0.43	-0.51	0	0	0	0	0	0	0	0
2/18/2025 19:54	52502	PROG_T2	1	0	-1	1.7	0	-1.7	-0.25	-0.2	1	1	0	900	900	0
2/18/2025 19:54	53502	EVIL_T2	11	16	5	3.02	3.23	0.21	0	0	0	0	0	0	0	0
2/18/2025 19:54	44902	SCOT_T2	0	10	10	0	0.13	0.13	-0.84	-0.85	0	0	0	0	0	0
2/18/2025 19:54	67602	WARW_T2	1	1	0	1.3	0.9	-0.4	0.79	0.82	0	0	0	0	0	0
2/18/2025 19:54	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.34	-0.4	1	1	0	900	900	0
2/18/2025 19:54	46501	LOHA_T1	32	43	11	0.75	0.79	0.04	-0.08	-0.07	1	1	0	1200	1200	0
2/18/2025 19:54	52404	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:54	66701	STRA_T1	1	4	3	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
2/18/2025 19:54	47901	HRDG_T1	0	0	0	0	0	0	2.04	2	0	0	0	0	0	0
2/18/2025 19:54	46502	LOHA_T1	2	2	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/18/2025 19:54	54201	PENN_T1	7	7	0	0.44	0.5	0.06	0	0	0	0	0	0	0	0
2/18/2025 19:54	52401	GRPA_T2	56	71	15	0.49	0.83	0.34	0	0	0	0	0	0	0	0
2/18/2025 19:54	52402	GRPA_T2	52	148	96	1.03	1.21	0.18	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/18/2025 19:54	64801	MONE_T2	0	0	0	0	0	0	167.92	167.92	0	0	0	0	0	0
2/18/2025 19:54	20603	GRWO_T2	18	31	13	1.07	0.67	-0.4	0	0	0	0	0	0	0	0
2/18/2025 19:54	46003	BERW_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 19:54	53902	HALI_T2	1	1	0	3.2	3.2	0	-0.97	-0.96	0	0	0	0	0	0
2/18/2025 19:54	46102	MACI_T1	10	24	14	0.86	0.95	0.09	0.75	0.75	0	0	0	0	0	0
2/18/2025 19:54	61701	ELIZ_T1	1	1	0	5	4.9	-0.1	0.08	0.29	0	0	0	0	0	0
2/18/2025 19:54	67903	WNHO_T1	0	0	0	0	0	0	1.16	1.24	1	1	0	1200	1200	0
2/18/2025 19:54	40902	JESH_T1	0	0	0	0	0	0	-2.04	-2.17	2	2	0	1200	1200	0
2/18/2025 19:54	46004	BERW_T2	10	18	8	0.91	0.68	-0.23	-0.33	-0.36	0	0	0	0	0	0
2/18/2025 19:54	67605	WARW_T1	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
2/18/2025 19:54	57403	SPAN_T1	0	3	3	0	0.65	0.65	0	0	0	0	0	0	0	0
2/18/2025 19:55	52402	GRPA_T2	52	148	96	1.03	1.21	0.18	0	0	0	0	0	0	0	0
2/18/2025 19:55	46203	DANV_T2	106	143	37	0.63	0.61	-0.02	-2.65	-2.82	0	0	0	0	0	0
2/18/2025 19:55	40101	HUNT_T2	38	44	6	1	1.36	0.36	0	0	0	0	0	0	0	0
2/18/2025 19:55	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:55	55001	NEWP_T1	9	26	17	0.33	0.3	-0.03	-1.45	-1.51	2	2	0	1200	1200	0
2/18/2025 19:55	42901	MIDD_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 19:55	52102	MEIS_T1	8	12	4	0.99	1.42	0.43	0	0	0	0	0	0	0	0
2/18/2025 19:55	53901	HALI_T2	0	0	0	0	0	0	-1.22	-1.23	0	0	0	0	0	0
2/18/2025 19:55	63601	LETO_T1	0	0	0	0	0	0	0.15	0.12	1	1	0	900	900	0
2/18/2025 19:55	54701	NEBL_T1	1	1	0	0.4	0	-0.4	0	0	1	1	0	600	600	0
2/18/2025 19:55	67602	WARW_T2	1	1	0	1.3	0.9	-0.4	0.79	0.82	0	0	0	0	0	0
2/18/2025 19:55	45003	LIME_2	68	97	29	2	1.78	-0.22	0	0	0	0	0	0	0	0
2/18/2025 19:55	46204	DANV_T2	13	54	41	0.3	0.44	0.14	0	0	0	0	0	0	0	0
2/18/2025 19:55	44203	POIN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 19:55	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:55	46206	DANV_T2	14	12	-2	0.94	0.43	-0.51	1.92	1.9	2	2	0	2100	2100	0
2/18/2025 19:55	47103	MARL_T2	0	2	2	0	0	0	-3.18	-3.08	0	0	0	0	0	0
2/18/2025 19:55	60803	BUCK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 19:55	40802	EXCH_T2	0	0	0	0	0	0	-0.79	-0.78	0	0	0	0	0	0
2/18/2025 19:55	60701	BREC_T1	9	9	0	1.26	1.3	0.04	-0.16	-0.14	1	1	0	600	600	0
2/18/2025 19:55	52404	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:55	61102	BERK_T5	0	0	0	0	0	0	0.03	0.08	1	1	0	300	300	0
2/18/2025 19:55	55002	NEWP_T1	4	4	0	1.1	1.13	0.03	-0.11	-0.12	0	0	0	0	0	0
2/18/2025 19:55	59101	WALK_T2	0	0	0	0	0	0	2.35	2.17	2	2	0	1200	1200	0
2/18/2025 19:55	52401	GRPA_T2	56	71	15	0.49	0.83	0.34	-0.44	-0.45	0	0	0	0	0	0
2/18/2025 19:55	44202	POIN_T2	0	0	0	0	0	0	-0.28	-0.3	1	1	0	1200	1200	0
2/18/2025 19:55	42902	MIDD_T2	29	29	0	1.29	0.79	-0.5	-2.58	-2.49	3	3	0	1800	1800	0
2/18/2025 19:55	41602	CLEV_T1	15	1	-14	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/18/2025 19:55	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:55	45002	LIME_2	1	1	0	4	4	0	-0.04	-0.05	0	0	0	0	0	0
2/18/2025 19:55	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:55	54206	PENN_T2	0	0	0	0	0	0	-0.33	-0.36	0	0	0	0	0	0
2/18/2025 19:55	57205	ROSS_T1	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
2/18/2025 19:55	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 19:55	53902	HALI_T2	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
2/18/2025 19:55	67904	WNHO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:55	52403	GRPA_T2	17	143	126	0.86	0.7	-0.16	0	0	0	0	0	0	0	0
2/18/2025 19:55	66502	SMAN_T2	0	0	0	0	0	0	-0.02	0.04	0	0	0	0	0	0
2/18/2025 19:55	45001	LIME_2	119	101	-18	0.9	0.68	-0.22	0	0	0	0	0	0	0	0
2/18/2025 19:55	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:55	45501	DERR_T2	10	10	0	0.89	1.07	0.18	0.81	0.81	2	2	0	1800	1800	0
2/18/2025 19:55	63501	HEID_TBK1-2	0	0	0	0	0	0	-0.34	-0.4	1	1	0	900	900	0
2/18/2025 19:55	60201	ATGL_T2	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
2/18/2025 19:55	45502	DERR_T2	24	13	-11	0.59	0.78	0.19	0	0	0	0	0	0	0	0
2/18/2025 19:56	53501	EVIL_T2	1	1	0	0.8	0.1	-0.7	-1.81	-1.81	2	2	0	1200	1200	0
2/18/2025 19:56	52403	GRPA_T2	17	143	126	0.86	0.7	-0.16	0	0	0	0	0	0	0	0
2/18/2025 19:56	12602	MACA_T1	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/18/2025 19:56	52401	GRPA_T2	56	71	15	0.49	0.83	0.34	-0.44	-0.45	0	0	0	0	0	0
2/18/2025 19:56	52101	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:56	60701	BREC_T1	9	9	0	1.26	1.3	0.04	-0.16	-0.14	1	1	0	600	600	0
2/18/2025 19:56	46206	DANV_T2	14	12	-2	0.94	0.43	-0.51	0	0	0	0	0	0	0	0
2/18/2025 19:56	14404	SSLA_T1	1	0	-1	1.7	0	-1.7	0	0	0	0	0	0	0	0
2/18/2025 19:56	42903	MIDD_T2	0	0	0	0	0	0	-1.2	-1.17	1	1	0	1200	1200	0
2/18/2025 19:56	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:56	41001	LAUR_T2	2	4	2	2.35	1.8	-0.55	0	0	0	0	0	0	0	0
2/18/2025 19:56	14403	SSLA_T1	7	9	2	1.06	0.68	-0.38	1.16	1.17	0	0	0	0	0	0
2/18/2025 19:56	18001	ZION_T1	2	2	0	8.4	8.35	-0.05	0	0	0	0	0	0	0	0
2/18/2025 19:56	14401	SSLA_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:56	56504	ROCK_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:56	56501	ROCK_T2	1	3	2	1	1.1	0.1	-1.27	-1.29	0	0	0	0	0	0
2/18/2025 19:56	12606	MACA_T1	14	15	1	0.26	0.35	0.09	0	0	0	0	0	0	0	0
2/18/2025 19:56	11103	EGYP_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 19:56	52502	PROG_T2	1	0	-1	1.7	0	-1.7	-0.25	-0.2	1	1	0	900	900	0
2/18/2025 19:56	11804	FRAN_T1	7	5	-2	0.51	0.1	-0.41	0.81	0.75	0	0	0	0	0	0
2/18/2025 19:56	11104	EGYP_T1	5	8	3	0.62	0.6	-0.02	0	0	0	0	0	0	0	0
2/18/2025 19:56	52404	GRPA_T2	0	3	3	0	0	0	-0.13	-0.14	0	0	0	0	0	0
2/18/2025 19:56	46204	DANV_T2	13	54	41	0.3	0.44	0.14	0	0	0	0	0	0	0	0
2/18/2025 19:56	53502	EVIL_T2	11	16	5	3.02	3.23	0.21	0	0	0	0	0	0	0	0
2/18/2025 19:56	57401	SPAN_T1	0	0	0	0	0	0	-1.85	-2.1	2	2	0	1200	1200	0
2/18/2025 19:56	14402	SSLA_T1	12	12	0	1.19	0.32	-0.87	0	0	0	0	0	0	0	0
2/18/2025 19:56	52402	GRPA_T2	52	148	96	1.03	1.21	0.18	0	0	0	0	0	0	0	0
2/18/2025 19:56	41002	LAUR_T2	37	41	4	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
2/18/2025 19:56	42901	MIDD_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 19:56	53902	HALI_T2	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
2/18/2025 19:56	67001	STHI_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/18/2025 19:56	45502	DERR_T2	24	13	-11	0.59	0.78	0.19	0	0	0	0	0	0	0	0
2/18/2025 19:56	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:56	11102	EGYP_T1	13	13	0	0.72	0.83	0.11	0	0	0	0	0	0	0	0
2/18/2025 19:56	41802	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:56	45501	DERR_T2	10	10	0	0.89	1.07	0.18	0.81	0.81	2	2	0	1800	1800	0
2/18/2025 19:56	14204	EALL_T2	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
2/18/2025 19:56	10801	CHHI_T1	5	9	4	0.78	0.53	-0.25	-1.84	-1.87	3	3	0	2100	2100	0
2/18/2025 19:56	41801	GOCI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:56	53901	HALI_T2	0	0	0	0	0	0	-1.22	-1.23	0	0	0	0	0	0
2/18/2025 19:56	42902	MIDD_T2	29	29	0	1.29	0.79	-0.5	0	0	0	0	0	0	0	0
2/18/2025 19:56	41901	REED_T1	2	4	2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/18/2025 19:56	17802	GILB_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
2/18/2025 19:56	67904	WNHO_T1	0	0	0	0	0	0	-1.1	-1.11	1	1	0	1200	1200	0
2/18/2025 19:56	46203	DANV_T2	106	143	37	0.63	0.61	-0.02	-2.65	-2.82	0	0	0	0	0	0
2/18/2025 19:56	67002	STHI_T2	3	3	0	0.1	0.1	0	0.68	0.68	0	0	0	0	0	0
2/18/2025 19:56	52102	MEIS_T1	8	12	4	0.99	1.42	0.43	0	0	0	0	0	0	0	0
2/18/2025 19:56	41902	REED_T1	53	59	6	0.51	0.43	-0.08	0.42	0.47	1	1	0	900	900	0
2/18/2025 19:56	57403	SPAN_T1	0	3	3	0	0.65	0.65	0	0	0	0	0	0	0	0
2/18/2025 19:56	11101	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:57	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:57	41901	REED_T1	2	4	2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/18/2025 19:57	61801	EELI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:57	46203	DANV_T2	106	143	37	0.63	0.61	-0.02	-1.33	-1.41	0	0	0	0	0	0
2/18/2025 19:57	65604	QVIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 19:57	65601	QVIL_T2	11	14	3	0.12	0.15	0.03	0	0	0	0	0	0	0	0
2/18/2025 19:57	46204	DANV_T2	13	54	41	0.3	0.44	0.14	0	0	0	0	0	0	0	0
2/18/2025 19:57	41902	REED_T1	53	59	6	0.51	0.43	-0.08	0.42	0.47	1	1	0	900	900	0
2/18/2025 19:57	65602	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 19:57	44902	SCOT_T2	0	10	10	0	0.13	0.13	-0.84	-0.85	0	0	0	0	0	0
2/18/2025 19:57	46206	DANV_T2	14	12	-2	0.94	0.43	-0.51	0	0	0	0	0	0	0	0
2/18/2025 19:57	40201	BEGA_T2	43	35	-8	0.54	0.4	-0.14	0	0	0	0	0	0	0	0
2/18/2025 19:57	45802	HEGI_T2	48	49	1	2.15	2.05	-0.1	0.84	0.17	0	0	0	0	0	0
2/18/2025 19:58	52401	GRPA_T2	56	71	15	0.49	0.83	0.34	0	0	0	0	0	0	0	0
2/18/2025 19:58	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 19:58	46204	DANV_T2	13	54	41	0.3	0.44	0.14	0	0	0	0	0	0	0	0
2/18/2025 19:58	40601	PIGR_T1	103	126	23	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
2/18/2025 19:58	52403	GRPA_T2	17	143	126	0.86	0.7	-0.16	-0.43	-0.5	0	0	0	0	0	0
2/18/2025 19:58	45702	LIND_T2	1	1	0	0.6	0.5	-0.1	-0.37	-0.4	0	0	0	0	0	0
2/18/2025 19:58	60701	BREC_T1	9	9	0	1.26	1.3	0.04	-0.16	-0.14	1	1	0	600	600	0
2/18/2025 19:58	49803	UNIV_T1	9	15	6	0.99	1.5	0.51	-0.82	-0.84	0	0	0	0	0	0
2/18/2025 19:58	46203	DANV_T2	106	143	37	0.63	0.61	-0.02	-1.33	-1.41	0	0	0	0	0	0
2/18/2025 19:58	45002	LIME_2	1	1	0	4	4	0	0	0	0	0	0	0	0	0
2/18/2025 19:58	46206	DANV_T2	14	12	-2	0.94	0.43	-0.51	0	0	0	0	0	0	0	0
2/18/2025 19:58	60801	BUCK_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
2/18/2025 19:58	52404	GRPA_T2	0	3	3	0	0	0	0	-0.4	0	0	0	0	0	0
2/18/2025 19:58	45502	DERR_T2	24	13	-11	0.59	0.78	0.19	0	0	0	0	0	0	0	0
2/18/2025 19:58	40602	PIGR_T1	0	1	1	0	0.2	0.2	-0.77	-0.81	0	0	0	0	0	0
2/18/2025 19:58	66701	STRA_T1	1	4	3	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
2/18/2025 19:58	60201	ATGL_T2	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
2/18/2025 19:58	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:58	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:58	49804	UNIV_T1	2	2	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/18/2025 19:58	42302	MOWR_T2	2	5	3	0.15	0.17	0.02	0.81	0.82	0	0	0	0	0	0
2/18/2025 19:58	53902	HALI_T2	1	1	0	3.2	3.2	0	-0.97	-0.96	0	0	0	0	0	0
2/18/2025 19:58	67001	STHI_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/18/2025 19:58	60803	BUCK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 19:58	45001	LIME_2	119	101	-18	0.9	0.68	-0.22	0	0	0	0	0	0	0	0
2/18/2025 19:58	66502	SMAN_T2	0	0	0	0	0	0	-0.04	0.09	0	0	0	0	0	0
2/18/2025 19:58	66703	STRA_T1	0	0	0	0	0	0	-0.61	-0.68	0	0	0	0	0	0
2/18/2025 19:58	67002	STHI_T2	3	3	0	0.1	0.1	0	0.68	0.68	0	0	0	0	0	0
2/18/2025 19:58	67904	WNHO_T1	0	0	0	0	0	0	-1.1	-1.11	1	1	0	1200	1200	0
2/18/2025 19:58	45003	LIME_2	68	97	29	2	1.78	-0.22	0	0	0	0	0	0	0	0
2/18/2025 19:58	52402	GRPA_T2	52	148	96	1.03	1.21	0.18	0	0	0	0	0	0	0	0
2/18/2025 19:58	45501	DERR_T2	10	10	0	0.89	1.07	0.18	0.81	0.81	2	2	0	1800	1800	0
2/18/2025 19:58	67402	WAKE_T2	0	0	0	0	0	0	-0.2	-0.23	1	1	0	600	600	0
2/18/2025 19:58	28102	TWLA_T2	43	63	20	0.67	0.56	-0.11	0.33	0.31	0	0	0	0	0	0
2/18/2025 19:59	64203	KINZ_T1	4	11	7	0.78	1.02	0.24	0	0	0	0	0	0	0	0
2/18/2025 19:59	64204	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
2/18/2025 19:59	46501	LOHA_T1	32	43	11	0.75	0.79	0.04	0	0	0	0	0	0	0	0
2/18/2025 19:59	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:59	66903	SHIL_T2	0	0	0	0	0	0	-1.23	-1.23	0	0	0	0	0	0
2/18/2025 19:59	55002	NEWP_T1	4	4	0	1.1	1.13	0.03	-0.11	-0.12	0	0	0	0	0	0
2/18/2025 19:59	53502	EVIL_T2	11	16	5	3.02	3.23	0.21	0	0	0	0	0	0	0	0
2/18/2025 19:59	53501	EVIL_T2	1	1	0	0.8	0.1	-0.7	-3.62	-3.62	4	4	0	2400	2400	0
2/18/2025 19:59	54502	ENOL_T2	0	0	0	0	0	0	-1.79	-1.78	1	1	0	600	600	0
2/18/2025 19:59	46502	LOHA_T1	2	2	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/18/2025 19:59	45003	LIME_2	68	97	29	2	1.78	-0.22	0.68	0.68	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/18/2025 19:59	46206	DANV_T2	14	12	-2	0.94	0.43	-0.51	0	0	0	0	0	0	0	0
2/18/2025 19:59	44801	EDAN_T2	1	0	-1	0.1	0	-0.1	-0.25	-0.27	0	0	0	0	0	0
2/18/2025 19:59	45502	DERR_T2	24	13	-11	0.59	0.78	0.19	0	0	0	0	0	0	0	0
2/18/2025 19:59	60701	BREC_T1	9	9	0	1.26	1.3	0.04	-0.64	-0.57	4	4	0	2400	2400	0
2/18/2025 19:59	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:59	67904	WNHO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:59	61502	EPET_T1	0	0	0	0	0	0	-2.16	-2.12	0	0	0	0	0	0
2/18/2025 19:59	55001	NEWP_T1	9	26	17	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
2/18/2025 19:59	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:59	52403	GRPA_T2	17	143	126	0.86	0.7	-0.16	0	0	0	0	0	0	0	0
2/18/2025 19:59	52401	GRPA_T2	56	71	15	0.49	0.83	0.34	0	0	0	0	0	0	0	0
2/18/2025 19:59	66702	STRA_T1	0	0	0	0	0	0	-0.68	-0.69	2	2	0	1500	1500	0
2/18/2025 19:59	57201	ROSS_T1	0	0	0	0	0	0	-0.59	-0.54	0	0	0	0	0	0
2/18/2025 19:59	58102	NEKI_T1	1	1	0	0.3	0.4	0.1	0.36	0.3	0	0	0	0	0	0
2/18/2025 19:59	61001	DONV_T1	0	0	0	0	0	0	-0.11	-0.19	0	0	0	0	0	0
2/18/2025 19:59	42202	SHEN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:59	58202	NEWV_T1	0	0	0	0	0	0	0.09	0.03	0	0	0	0	0	0
2/18/2025 19:59	45001	LIME_2	119	101	-18	0.9	0.68	-0.22	0	0	0	0	0	0	0	0
2/18/2025 19:59	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 19:59	41901	REED_T1	2	4	2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/18/2025 19:59	46204	DANV_T2	13	54	41	0.3	0.44	0.14	0	0	0	0	0	0	0	0
2/18/2025 19:59	40501	CRES_T2	49	49	0	0.49	0.36	-0.13	0	0	0	0	0	0	0	0
2/18/2025 19:59	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:59	45501	DERR_T2	10	10	0	0.89	1.07	0.18	0.81	0.81	2	2	0	1800	1800	0
2/18/2025 19:59	45002	LIME_2	1	1	0	4	4	0	0	0	0	0	0	0	0	0
2/18/2025 19:59	46503	LOHA_T1	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
2/18/2025 19:59	66701	STRA_T1	1	4	3	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
2/18/2025 19:59	52404	GRPA_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:59	60803	BUCK_T1	1	1	0	0.1	0.1	0	-0.88	-0.86	2	2	0	1200	1200	0
2/18/2025 19:59	46506	LOHA_T1	5	5	0	0.46	0.37	-0.09	0	0	0	0	0	0	0	0
2/18/2025 19:59	42201	SHEN_T2	0	2	2	0	0.1	0.1	0.25	0.25	1	1	0	600	600	0
2/18/2025 19:59	67203	TEHI_T1	3	1	-2	0.37	0.1	-0.27	2.72	2.72	2	2	0	1500	1500	0
2/18/2025 19:59	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 19:59	52402	GRPA_T2	52	148	96	1.03	1.21	0.18	0	0	0	0	0	0	0	0
2/18/2025 19:59	58201	NEWV_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
2/18/2025 19:59	57403	SPAN_T1	0	3	3	0	0.65	0.65	0.35	0.35	0	0	0	0	0	0
2/18/2025 19:59	64202	KINZ_T1	0	0	0	0	0	0	0.81	0.81	0	0	0	0	0	0
2/18/2025 19:59	40901	JESH_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
2/18/2025 19:59	61703	ELIZ_T1	0	0	0	0	0	0	-1.91	-1.81	1	1	0	900	900	0
2/18/2025 19:59	41902	REED_T1	53	59	6	0.51	0.43	-0.08	0.42	0.47	1	1	0	900	900	0
2/18/2025 19:59	66502	SMAN_T2	0	0	0	0	0	0	-0.02	0.04	0	0	0	0	0	0
2/18/2025 19:59	61701	ELIZ_T1	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
2/18/2025 19:59	46203	DANV_T2	106	143	37	0.63	0.61	-0.02	-1.33	-1.41	0	0	0	0	0	0
2/18/2025 20:00	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 20:00	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 20:00	45501	DERR_T2	10	6	-4	1.04	1.12	0.08	0.81	0.81	2	2	0	1800	1800	0
2/18/2025 20:00	67402	WAKE_T2	0	0	0	0	0	0	-0.2	-0.23	1	1	0	600	600	0
2/18/2025 20:00	42903	MIDD_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 20:00	53502	EVIL_T2	11	17	6	3.23	1.63	-1.6	0	0	0	0	0	0	0	0
2/18/2025 20:00	60803	BUCK_T1	1	1	0	0.1	0.1	0	-0.44	-0.43	1	1	0	600	600	0
2/18/2025 20:00	45502	DERR_T2	13	8	-5	0.61	0.6	-0.01	0	0	0	0	0	0	0	0
2/18/2025 20:00	60801	BUCK_T1	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
2/18/2025 20:00	14802	TREI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/18/2025 20:00	14801	TREI_T2	1	2	1	0.4	0	-0.4	0.96	0.94	0	0	0	0	0	0
2/18/2025 20:00	41902	REED_T1	49	29	-20	0.57	0.52	-0.05	0.83	0.94	2	2	0	1800	1800	0
2/18/2025 20:00	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	-0.34	-0.4	1	1	0	900	900	0
2/18/2025 20:00	55002	NEWP_T1	4	0	-4	1.13	1.1	-0.03	0	0	0	0	0	0	0	0
2/18/2025 20:00	61102	BERK_T5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 20:00	53501	EVIL_T2	0	1	1	0	0.1	0.1	-1.81	-1.81	2	2	0	1200	1200	0
2/18/2025 20:00	42901	MIDD_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/18/2025 20:00	41901	REED_T1	4	1	-3	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
2/18/2025 20:00	44902	SCOT_T2	4	10	6	0.13	0.13	0	0	0	0	0	0	0	0	0
2/18/2025 20:00	47203	FAXO_T2	1	0	-1	0.2	0	-0.2	-0.99	-1	0	0	0	0	0	0
2/18/2025 20:00	60701	BREC_T1	9	9	0	1.38	1.38	0	-0.32	-0.28	2	2	0	1200	1200	0
2/18/2025 20:00	67002	STHI_T2	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 20:00	52102	MEIS_T1	11	10	-1	0.93	1.14	0.21	0	0	1	1	0	450	450	0
2/18/2025 20:00	40601	PIGR_T1	62	173	111	0.28	0.41	0.13	-0.1	-0.03	0	0	0	0	0	0
2/18/2025 20:00	57403	SPAN_T1	2	3	1	0.65	0.25	-0.4	0.35	0.35	0	0	0	0	0	0
2/18/2025 20:00	64101	REFR_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
2/18/2025 20:00	44802	EDAN_T2	0	0	0	0	0	0	-1.99	-1.99	0	0	0	0	0	0
2/18/2025 20:00	54503	ENOL_T2	0	1	1	0	0	0	-0.91	-0.9	1	1	0	600	600	0
2/18/2025 20:00	40602	PIGR_T1	0	6	6	0	0.26	0.26	0	0	0	0	0	0	0	0
2/18/2025 20:00	44901	SCOT_T2	0	0	0	0	0	0	-0.04	-0.01	0	0	0	0	0	0
2/18/2025 20:00	55001	NEWP_T1	7	26	19	0.31	0.26	-0.05	-0.72	-0.75	1	1	0	600	600	0
2/18/2025 20:00	42902	MIDD_T2	29	29	0	0.79	1.19	0.4	-0.86	-0.83	1	1	0	600	600	0
2/18/2025 20:00	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 20:00	67001	STHI_T2	1	1	0	0.7	0.7	0	0.19	0.18	0	0	0	0	0	0
2/18/2025 20:00	44801	EDAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 20:01	57201	ROSS_T1	0	0	0	0	0	0	-0.59	-0.54	0	0	0	0	0	0
2/18/2025 20:01	52401	GRPA_T2	70	73	3	0.96	0.82	-0.14	0	0	0	0	0	0	0	0
2/18/2025 20:01	65604	QVIL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 20:01	52501	PROG_T1	0	0	0	0	0	0	0.72	0.67	1	1	0	300	300	0
2/18/2025 20:01	65601	QVIL_T2	10	16	6	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
2/18/2025 20:01	67901	WNHO_T2	1	1	0	1.2	0.8	-0.4	0	0	0	0	0	0	0	0
2/18/2025 20:01	54504	ENOL_T2	0	0	0	0	0	0	-0.89	-0.91	1	1	0	600	600	0
2/18/2025 20:01	52102	MEIS_T1	11	10	-1	0.93	1.14	0.21	0	0	1	1	0	450	450	0
2/18/2025 20:01	52402	GRPA_T2	117	140	23	1.1	1.21	0.11	0	0	0	0	0	0	0	0
2/18/2025 20:01	67602	WARW_T2	1	2	1	0.9	0.8	-0.1	0.79	0.82	0	0	0	0	0	0
2/18/2025 20:01	66502	SMAN_T2	0	0	0	0	0	0	-0.02	0.04	0	0	0	0	0	0
2/18/2025 20:01	66504	SMAN_T2	0	1	1	0	0	0	-0.08	-0.1	0	0	0	0	0	0
2/18/2025 20:01	54505	ENOL_T2	0	0	0	0	0	0	-0.65	-0.65	1	1	0	600	600	0
2/18/2025 20:01	65603	QVIL_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
2/18/2025 20:01	52403	GRPA_T2	108	146	38	0.7	0.82	0.12	-0.43	-0.5	0	0	0	0	0	0
2/18/2025 20:01	59101	WALK_T2	0	0	0	0	0	0	1.18	1.08	1	1	0	600	600	0
2/18/2025 20:01	64101	REFR_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
2/18/2025 20:01	52404	GRPA_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
2/18/2025 20:01	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 20:01	65602	QVIL_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
2/18/2025 20:01	61803	EELI_T2	0	0	0	0	0	0	0.8	0.77	0	0	0	0	0	0
2/18/2025 20:01	44905	SCOT_T1	33	25	-8	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
2/18/2025 20:01	57205	ROSS_T1	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
2/18/2025 20:01	67605	WARW_T1	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
2/18/2025 20:02	65604	QVIL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 20:02	52404	GRPA_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
2/18/2025 20:02	52401	GRPA_T2	70	73	3	0.96	0.82	-0.14	0	0	0	0	0	0	0	0
2/18/2025 20:02	52402	GRPA_T2	117	140	23	1.1	1.21	0.11	0	0	0	0	0	0	0	0
2/18/2025 20:02	56504	ROCK_T2	1	1	0	0.4	2.5	2.1	0	0	0	0	0	0	0	0
2/18/2025 20:02	56501	ROCK_T2	2	2	0	1.2	1	-0.2	-1.27	-1.29	0	0	0	0	0	0
2/18/2025 20:02	65603	QVIL_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
2/18/2025 20:02	57403	SPAN_T1	2	3	1	0.65	0.25	-0.4	0	0	0	0	0	0	0	0
2/18/2025 20:02	52403	GRPA_T2	108	146	38	0.7	0.82	0.12	0	0	0	0	0	0	0	0
2/18/2025 20:02	65602	QVIL_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
2/18/2025 20:02	64101	REFR_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
2/18/2025 20:02	40501	CRES_T2	44	38	-6	0.38	0.31	-0.07	0	0	0	0	0	0	0	0
2/18/2025 20:02	57401	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 20:02	65601	QVIL_T2	10	16	6	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
2/18/2025 20:03	65502	MOJO_T2	0	0	0	0	0	0	-1.77	-1.75	1	1	0	900	900	0
2/18/2025 20:03	55001	NEWP_T1	7	26	19	0.31	0.26	-0.05	0	0	0	0	0	0	0	0
2/18/2025 20:03	67901	WNHO_T2	1	1	0	1.2	0.8	-0.4	-0.14	-0.18	0	0	0	0	0	0
2/18/2025 20:03	57401	SPAN_T1	0	0	0	0	0	0	-0.92	-1.05	1	1	0	600	600	0
2/18/2025 20:03	64101	REFR_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
2/18/2025 20:03	58401	MORO_T1	0	0	0	0	0	0	-1.75	-1.77	1	1	0	600	600	0
2/18/2025 20:03	56504	ROCK_T2	1	1	0	0.4	2.5	2.1	0	0	0	0	0	0	0	0
2/18/2025 20:03	57403	SPAN_T1	2	3	1	0.65	0.25	-0.4	0	0	0	0	0	0	0	0
2/18/2025 20:03	56501	ROCK_T2	2	2	0	1.2	1	-0.2	-1.27	-1.29	0	0	0	0	0	0
2/18/2025 20:03	49804	UNIV_T1	2	0	-2	0.65	0	-0.65	0.74	0.74	0	0	0	0	0	0
2/18/2025 20:03	60701	BREC_T1	9	9	0	1.38	1.38	0	-0.16	-0.14	1	1	0	600	600	0
2/18/2025 20:03	55002	NEWP_T1	4	4	0	1.13	1.1	-0.03	0	0	0	0	0	0	0	0
2/18/2025 20:03	49803	UNIV_T1	15	8	-7	0.8	1.58	0.78	0	0	0	0	0	0	0	0
2/18/2025 20:04	52502	PROG_T2	0	0	0	0	0	0	-0.25	-0.2	1	1	0	900	900	0
2/18/2025 20:04	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	-0.34	-0.4	1	1	0	900	900	0
2/18/2025 20:04	67402	WAKE_T2	0	0	0	0	0	0	-0.2	-0.23	1	1	0	600	600	0
2/18/2025 20:04	45003	LIME_2	95	98	3	1.48	1.58	0.1	0.68	0.68	0	0	0	0	0	0
2/18/2025 20:04	45501	DERR_T2	10	6	-4	1.04	1.12	0.08	1.62	1.63	4	4	0	3600	3600	0
2/18/2025 20:04	66504	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 20:04	52403	GRPA_T2	108	146	38	0.7	0.82	0.12	-0.43	-0.5	0	0	0	0	0	0
2/18/2025 20:04	45002	LIME_2	1	1	0	3.5	4	0.5	0	0	0	0	0	0	0	0
2/18/2025 20:04	44301	BEAV_T2	2	4	2	1.3	1	-0.3	0	0	0	0	0	0	0	0
2/18/2025 20:04	67602	WARW_T2	1	2	1	0.9	0.8	-0.1	1.59	1.64	0	0	0	0	0	0
2/18/2025 20:04	58401	MORO_T1	0	0	0	0	0	0	-1.75	-1.77	1	1	0	600	600	0
2/18/2025 20:04	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 20:04	66503	SMAN_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
2/18/2025 20:04	52401	GRPA_T2	70	73	3	0.96	0.82	-0.14	0	0	0	0	0	0	0	0
2/18/2025 20:04	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 20:04	45001	LIME_2	95	90	-5	0.79	0.43	-0.36	0	0	0	0	0	0	0	0
2/18/2025 20:04	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 20:04	45502	DERR_T2	13	8	-5	0.61	0.6	-0.01	0	0	0	0	0	0	0	0
2/18/2025 20:04	52402	GRPA_T2	117	140	23	1.1	1.21	0.11	0	0	0	0	0	0	0	0
2/18/2025 20:04	65602	QVIL_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
2/18/2025 20:04	57201	ROSS_T1	0	0	0	0	0	0	-0.59	-0.54	0	0	0	0	0	0
2/18/2025 20:04	67903	WNHO_T1	0	0	0	0	0	0	1.16	1.24	1	1	0	1200	1200	0
2/18/2025 20:04	67203	TEHI_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/18/2025 20:04	65601	QVIL_T2	10	16	6	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
2/18/2025 20:04	52404	GRPA_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
2/18/2025 20:04	67201	TEHI_T1	0	0	0	0	0	0	-0.62	-0.63	1	1	0	900	900	0
2/18/2025 20:04	65604	QVIL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/18/2025 20:05	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 20:05	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 20:05	54502	ENOL_T2	0	0	0	0	0	0	-1.79	-1.78	1	1	0	600	600	0
2/18/2025 20:05	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 20:05	53502	EVIL_T2	11	17	6	3.23	1.63	-1.6	0	0	0	0	0	0	0	0
2/18/2025 20:05	65503	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 20:05	61304	EARL_T1	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/18/2025 20:05	67605	WARW_T1	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
2/18/2025 20:05	57403	SPAN_T1	2	3	1	0.65	0.25	-0.4	0.35	0.35	0	0	0	0	0	0
2/18/2025 20:05	67901	WNHO_T2	1	1	0	1.2	0.8	-0.4	-0.14	-0.18	0	0	0	0	0	0
2/18/2025 20:05	58402	MORO_T1	0	0	0	0	0	0	-0.49	-0.52	3	3	0	2400	2400	0
2/18/2025 20:05	67602	WARW_T2	1	2	1	0.9	0.8	-0.1	0.79	0.82	0	0	0	0	0	0
2/18/2025 20:05	63302	GREE_T1	0	0	0	0	0	0	0.35	0.4	0	0	0	0	0	0
2/18/2025 20:05	59101	WALK_T2	0	0	0	0	0	0	1.18	1.08	1	1	0	600	600	0
2/18/2025 20:05	57203	ROSS_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
2/18/2025 20:05	57205	ROSS_T1	0	0	0	0	0	0	0.76	0.72	0	0	0	0	0	0
2/18/2025 20:05	53501	EVIL_T2	0	1	1	0	0.1	0.1	-1.81	-1.81	2	2	0	1200	1200	0
2/18/2025 20:05	63305	GREE_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 20:06	57403	SPAN_T1	2	3	1	0.65	0.25	-0.4	0	0	0	0	0	0	0	0
2/18/2025 20:06	52402	GRPA_T2	117	140	23	1.1	1.21	0.11	0	0	0	0	0	0	0	0
2/18/2025 20:06	64203	KINZ_T1	11	11	0	1.2	0.48	-0.72	-1.66	-1.65	2	2	0	1800	1800	0
2/18/2025 20:06	57401	SPAN_T1	0	0	0	0	0	0	-0.92	-1.05	1	1	0	600	600	0
2/18/2025 20:06	57402	SPAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 20:06	52404	GRPA_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
2/18/2025 20:06	52403	GRPA_T2	108	146	38	0.7	0.82	0.12	0	0	0	0	0	0	0	0
2/18/2025 20:06	58401	MORO_T1	0	0	0	0	0	0	-1.75	-1.77	1	1	0	600	600	0
2/18/2025 20:06	64204	KINZ_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
2/18/2025 20:06	52502	PROG_T2	0	0	0	0	0	0	-0.25	-0.2	1	1	0	900	900	0
2/18/2025 20:06	52401	GRPA_T2	70	73	3	0.96	0.82	-0.14	0	0	0	0	0	0	0	0
2/18/2025 20:07	50501	MECH_T1	3	1	-2	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
2/18/2025 20:07	50502	MECH_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
2/18/2025 20:07	58202	NEWV_T1	0	0	0	0	0	0	0.03	0.05	0	0	0	0	0	0
2/18/2025 20:07	58201	NEWV_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/18/2025 20:07	50506	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2025 20:08	58201	NEWV_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/18/2025 20:09	52403	GRPA_T2	108	146	38	0.7	0.82	0.12	0	0	0	0	0	0	0	0
2/18/2025 20:09	52402	GRPA_T2	117	140	23	1.1	1.21	0.11	0	0	0	0	0	0	0	0
2/18/2025 20:09	52404	GRPA_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
2/18/2025 20:09	52401	GRPA_T2	70	73	3	0.96	0.82	-0.14	0	0	0	0	0	0	0	0
2/18/2025 20:10	11102	EGYP_T1	11	13	2	1.04	0.81	-0.23	0	0	0	0	0	0	0	0
2/18/2025 20:10	54001	SDLE_T1	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/18/2025 20:10	11103	EGYP_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/18/2025 20:10	11104	EGYP_T1	8	4	-4	0.58	0.85	0.27	-0.23	-0.22	1	1	0	900	900	0
2/18/2025 20:12	63804	HEMP_T1	1	1	0	6.4	6.1	-0.3	0	0	0	0	0	0	0	0
2/18/2025 20:12	63803	HEMP_T1	0	0	0	0	0	0	0.64	0.68	0	0	0	0	0	0
2/18/2025 20:13	57403	SPAN_T1	2	3	1	0.65	0.25	-0.4	0	0	0	0	0	0	0	0
2/18/2025 20:13	57401	SPAN_T1	0	0	0	0	0	0	-1.05	-1	1	1	0	600	600	0
2/18/2025 20:27	45802	HEGI_T2	48	54	6	2.05	0.69	-1.36	0	0	0	0	0	0	0	0
2/18/2025 20:34	66202	SISP_T2	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/18/2025 20:34	66203	SISP_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 20:48	55002	NEWP_T1	4	4	0	0.95	1.33	0.38	0	0	0	0	0	0	0	0
2/18/2025 20:48	55001	NEWP_T1	12	4	-8	0.42	1	0.58	-0.76	-0.73	1	1	0	600	600	0
2/18/2025 20:50	40505	CRES_T1	0	9	9	0	0.12	0.12	0.53	0.49	0	0	0	0	0	0
2/18/2025 20:51	67603	WARW_T1	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
2/18/2025 21:33	62105	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/18/2025 21:33	62101	ELAN_T1	0	0	0	0	0	0	4.32	4	0	0	0	0	0	0
2/18/2025 22:25	45001	LIME_2	37	25	-12	0.6	0.49	-0.11	0	0	0	0	0	0	0	0
2/18/2025 22:25	45002	LIME_2	1	1	0	4.1	4.9	0.8	0.82	0.82	0	0	0	0	0	0
2/18/2025 22:25	45003	LIME_2	11	51	40	0.46	0.61	0.15	0	0	0	0	0	0	0	0
2/18/2025 22:26	60201	ATGL_T2	46	65	19	0.29	0.3	0.01	0.2	0.09	0	0	0	0	0	0
2/18/2025 22:37	27501	WEIS_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
2/18/2025 22:37	27504	WEIS_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
2/18/2025 22:44	56501	ROCK_T2	1	2	1	1.4	1	-0.4	-1.41	-1.49	0	0	0	0	0	0
2/18/2025 22:50	66703	STRA_T1	0	0	0	0	0	0	-0.71	-0.74	0	0	0	0	0	0
2/18/2025 22:50	66701	STRA_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/18/2025 22:57	28403	HART_T2	0	0	0	0	0	0	-0.71	-0.69	1	1	0	900	900	0
2/18/2025 23:36	54502	ENOL_T2	0	0	0	0	0	0	-1.8	-1.83	1	1	0	600	600	0
2/18/2025 23:45	52403	GRPA_T2	7	2	-5	0.71	1.4	0.69	-0.89	-0.88	0	0	0	0	0	0
2/18/2025 23:45	52402	GRPA_T2	52	33	-19	0.79	0.66	-0.13	0	0	0	0	0	0	0	0
2/19/2025 0:12	41901	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 0:12	41902	REED_T1	6	13	7	0.22	0.25	0.03	0.21	0.27	1	1	0	900	900	0
2/19/2025 0:16	63804	HEMP_T1	1	1	0	5.7	6.1	0.4	-0.52	0.83	0	0	0	0	0	0
2/19/2025 0:22	45002	LIME_2	1	1	0	4.3	4.5	0.2	0	0	0	0	0	0	0	0
2/19/2025 0:22	45001	LIME_2	15	11	-4	0.6	0.49	-0.11	0	0	0	0	0	0	0	0
2/19/2025 0:22	45003	LIME_2	15	33	18	0.5	0.54	0.04	0.55	0.42	0	0	0	0	0	0
2/19/2025 0:22	64402	LAND_T2	0	0	0	0	0	0	-0.52	-0.58	1	1	0	600	600	0
2/19/2025 0:23	53601	DALM_T2	7	1	-6	0.6	0.6	0	-0.35	-0.38	1	1	0	900	900	0
2/19/2025 0:23	57403	SPAN_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 0:23	57401	SPAN_T1	0	0	0	0	0	0	-1.25	-1.19	1	1	0	600	600	0
2/19/2025 0:28	52401	GRPA_T2	0	1	1	0	0	0	-0.41	-0.42	0	0	0	0	0	0
2/19/2025 0:28	44501	HAMI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 0:28	52403	GRPA_T2	1	2	1	1.4	1.1	-0.3	0	0	0	0	0	0	0	0
2/19/2025 0:28	52402	GRPA_T2	31	28	-3	0.67	0.33	-0.34	0	0	0	0	0	0	0	0
2/19/2025 0:28	44502	HAMI_T2	2	1	-1	2.15	2.9	0.75	0	0	0	0	0	0	0	0
2/19/2025 0:28	44504	HAMI_T2	0	0	0	0	0	0	-1.23	-1.24	0	0	0	0	0	0
2/19/2025 0:34	46101	MACI_T2	0	0	0	0	0	0	-0.61	-0.62	1	1	0	1200	1200	0
2/19/2025 0:35	22602	KIMB_T1	0	0	0	0	0	0	0.26	0.14	0	0	0	0	0	0
2/19/2025 0:37	64101	REFR_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
2/19/2025 0:38	45702	LIND_T2	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
2/19/2025 0:38	44301	BEAV_T2	0	0	0	0	0	0	-1.05	-0.9	1	1	0	600	600	0
2/19/2025 0:38	65503	MOJO_T2	0	0	0	0	0	0	-0.14	-0.11	0	0	0	0	0	0
2/19/2025 0:39	53502	EVIL_T2	9	11	2	0.22	1.48	1.26	0	0	0	0	0	0	0	0
2/19/2025 0:39	53501	EVIL_T2	0	1	1	0	0.1	0.1	-1.44	-1.41	2	2	0	1200	1200	0
2/19/2025 0:40	46001	BERW_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
2/19/2025 0:41	40602	PIGR_T1	0	0	0	0	0	0	0.24	-1.01	0	0	0	0	0	0
2/19/2025 0:41	40603	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 0:43	45002	LIME_2	1	1	0	3.8	4.6	0.8	0	0	0	0	0	0	0	0
2/19/2025 0:43	45003	LIME_2	32	31	-1	0.51	0.68	0.17	0.42	0.46	0	0	0	0	0	0
2/19/2025 0:43	45001	LIME_2	7	11	4	0.87	0.51	-0.36	0	0	0	0	0	0	0	0
2/19/2025 0:48	52402	GRPA_T2	10	51	41	0.33	0.72	0.39	0	0	0	0	0	0	0	0
2/19/2025 0:48	52403	GRPA_T2	2	15	13	0.9	0.72	-0.18	-1.51	-1.08	0	0	0	0	0	0
2/19/2025 0:48	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 0:50	66502	SMAN_T2	0	0	0	0	0	0	-0.21	-0.04	0	0	0	0	0	0
2/19/2025 0:56	11104	EGYP_T1	32	23	-9	0.51	0.4	-0.11	0.59	0.6	0	0	0	0	0	0
2/19/2025 0:59	53502	EVIL_T2	11	11	0	2.03	1.48	-0.55	0	0	0	0	0	0	0	0
2/19/2025 0:59	46503	LOHA_T1	0	0	0	0	0	0	-0.58	-0.59	0	0	0	0	0	0
2/19/2025 0:59	46506	LOHA_T1	3	4	1	0.67	0.67	0	0	0	0	0	0	0	0	0
2/19/2025 0:59	46502	LOHA_T1	0	0	0	0	0	0	-1.38	-1.38	1	1	0	1200	1200	0
2/19/2025 0:59	46501	LOHA_T1	7	6	-1	0.86	0.9	0.04	0	0	0	0	0	0	0	0
2/19/2025 0:59	53501	EVIL_T2	0	1	1	0	0.1	0.1	-1.41	-1.4	2	2	0	1200	1200	0
2/19/2025 1:02	42701	AUGU_T1	6	9	3	0.9	0.3	-0.6	0	0	2	2	0	1800	1800	0
2/19/2025 1:03	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 1:03	52403	GRPA_T2	13	19	6	0.59	0.65	0.06	-1.08	-1.07	0	0	0	0	0	0
2/19/2025 1:03	52402	GRPA_T2	39	54	15	0.73	0.62	-0.11	0	0	0	0	0	0	0	0
2/19/2025 1:12	62105	ELAN_T1	0	4	4	0	1.33	1.33	0.5	0.51	0	0	0	0	0	0
2/19/2025 1:12	62101	ELAN_T1	0	3	3	0	0.83	0.83	0	0	0	0	0	0	0	0
2/19/2025 1:22	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
2/19/2025 1:32	15704	TANN_T1	3	2	-1	1.3	0	-1.3	-1.58	-1.62	0	0	0	0	0	0
2/19/2025 1:32	15701	TANN_T1	2	2	0	2.5	2.2	-0.3	0	0	0	0	0	0	0	0
2/19/2025 1:39	52502	PROG_T2	0	0	0	0	0	0	-0.32	-0.33	1	1	0	900	900	0
2/19/2025 1:42	62105	ELAN_T1	4	0	-4	1.33	0	-1.33	0.51	0.5	0	0	0	0	0	0
2/19/2025 1:42	62101	ELAN_T1	3	0	-3	0.83	0	-0.83	0	0	0	0	0	0	0	0
2/19/2025 6:02	61803	EELI_T2	0	0	0	0	0	0	0.07	0.08	1	1	0	600	600	0
2/19/2025 6:02	61802	EELI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 7:40	16102	BING_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
2/19/2025 7:40	16101	BING_T2	0	0	0	0	0	0	0.74	0.74	0	0	0	0	0	0
2/19/2025 7:40	16103	BING_T2	3	3	0	1.07	0.3	-0.77	0	0	0	0	0	0	0	0
2/19/2025 7:52	67204	TEHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 7:54	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 7:54	13904	SEID_T1	55	46	-9	0.87	1.81	0.94	0	0	0	0	0	0	0	0
2/19/2025 7:55	29402	BELT_T1	1	1	0	8.2	8.6	0.4	0	0	0	0	0	0	0	0
2/19/2025 7:55	29401	BELT_T1	20	22	2	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
2/19/2025 7:56	16103	BING_T2	3	3	0	0.93	0.3	-0.63	-1.94	-1.96	2	2	0	1500	1500	0
2/19/2025 7:56	45502	DERR_T2	28	7	-21	0.65	0.52	-0.13	0	0	0	0	0	0	0	0
2/19/2025 7:56	45501	DERR_T2	15	14	-1	0.43	0.34	-0.09	0.91	0.89	2	2	0	1800	1800	0
2/19/2025 7:56	16102	BING_T2	1	1	0	0.7	2.9	2.2	0	0	0	0	0	0	0	0
2/19/2025 8:00	53501	EVIL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 8:00	53502	EVIL_T2	13	13	0	0.75	2.04	1.29	0	0	0	0	0	0	0	0
2/19/2025 8:02	45003	LIME_2	69	65	-4	1.73	0.98	-0.75	0	0	0	0	0	0	0	0
2/19/2025 8:02	45002	LIME_2	3	1	-2	1.33	3.8	2.47	0	0	0	0	0	0	0	0
2/19/2025 8:02	45001	LIME_2	83	66	-17	1.03	0.76	-0.27	0	0	0	0	0	0	0	0
2/19/2025 8:02	11507	FREE_T2	270	292	22	0.9	0.82	-0.08	2.1	1.96	0	0	0	0	0	0
2/19/2025 8:02	45004	LIME_2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 8:03	45003	LIME_2	69	65	-4	1.73	0.98	-0.75	2.55	2.58	0	0	0	0	0	0
2/19/2025 8:03	45002	LIME_2	3	1	-2	1.33	3.8	2.47	0	0	0	0	0	0	0	0
2/19/2025 8:03	45004	LIME_2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 8:03	45001	LIME_2	83	66	-17	1.03	0.76	-0.27	0	0	0	0	0	0	0	0
2/19/2025 8:04	60502	NMAN_T2	0	0	0	0	0	0	0.1	-0.02	0	0	0	0	0	0
2/19/2025 8:04	25402	LAHA_T2	231	295	64	0.94	0.85	-0.09	-0.23	-0.2	0	0	0	0	0	0
2/19/2025 8:04	43201	MVIL_T2	9	0	-9	0.39	0	-0.39	0	0	0	0	0	0	0	0
2/19/2025 8:04	45002	LIME_2	3	1	-2	1.33	3.8	2.47	0	0	0	0	0	0	0	0
2/19/2025 8:04	42903	MIDD_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
2/19/2025 8:04	45001	LIME_2	83	66	-17	1.03	0.76	-0.27	0	0	0	0	0	0	0	0
2/19/2025 8:04	25404	LAHA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/19/2025 8:04	43202	MVIL_T2	3	1	-2	1.1	1.2	0.1	-0.44	-0.5	0	0	0	0	0	0
2/19/2025 8:04	42902	MIDD_T2	1	0	-1	0.9	0	-0.9	-1.25	-1.12	2	2	0	1200	1200	0
2/19/2025 8:04	60501	NMAN_T2	30	20	-10	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
2/19/2025 8:04	45003	LIME_2	69	65	-4	1.73	0.98	-0.75	2.55	2.58	0	0	0	0	0	0
2/19/2025 8:04	45004	LIME_2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 8:05	45002	LIME_2	3	1	-2	1.33	3.8	2.47	0	0	0	0	0	0	0	0
2/19/2025 8:05	45004	LIME_2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 8:05	45003	LIME_2	69	65	-4	1.73	0.98	-0.75	0.85	0.86	0	0	0	0	0	0
2/19/2025 8:05	45001	LIME_2	83	66	-17	1.03	0.76	-0.27	0	0	0	0	0	0	0	0
2/19/2025 8:05	42903	MIDD_T2	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
2/19/2025 8:05	55001	NEWP_T1	0	3	3	0	0.4	0.4	-1.35	-1.34	2	2	0	1200	1200	0
2/19/2025 8:05	43202	MVIL_T2	3	1	-2	1.1	1.2	0.1	-0.44	-0.5	0	0	0	0	0	0
2/19/2025 8:05	42902	MIDD_T2	1	0	-1	0.9	0	-0.9	-0.63	-0.56	1	1	0	600	600	0
2/19/2025 8:05	55002	NEWP_T1	6	4	-2	0.88	0.83	-0.05	0	0	0	0	0	0	0	0
2/19/2025 8:05	43201	MVIL_T2	9	0	-9	0.39	0	-0.39	-0.26	-0.23	0	0	0	0	0	0
2/19/2025 8:06	41903	REED_T1	4	4	0	0.83	0.78	-0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/19/2025 8:06	41902	REED_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 8:06	41901	REED_T1	1	2	1	1.8	1	-0.8	0	0	0	0	0	0	0	0
2/19/2025 8:07	60501	NMAN_T2	30	20	-10	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
2/19/2025 8:07	41902	REED_T1	0	4	4	0	0.2	0.2	-0.37	-0.43	1	1	0	900	900	0
2/19/2025 8:07	41903	REED_T1	4	4	0	0.83	0.78	-0.05	0	0	0	0	0	0	0	0
2/19/2025 8:07	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 8:07	41901	REED_T1	1	2	1	1.8	1	-0.8	0	0	0	0	0	0	0	0
2/19/2025 8:08	13601	RICH_T2	5	5	0	1.34	1.37	0.03	0	0	0	0	0	0	0	0
2/19/2025 8:08	41903	REED_T1	4	4	0	0.83	0.78	-0.05	0	0	0	0	0	0	0	0
2/19/2025 8:08	40302	TAMA_T3	8	7	-1	0.45	0.3	-0.15	0.34	0.39	0	0	0	0	0	0
2/19/2025 8:08	41901	REED_T1	1	2	1	1.8	1	-0.8	0	0	0	0	0	0	0	0
2/19/2025 8:08	13604	RICH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 8:08	13606	RICH_T2	55	58	3	0.65	0.58	-0.07	1.09	1.12	0	0	0	0	0	0
2/19/2025 8:08	41902	REED_T1	0	4	4	0	0.2	0.2	-0.37	-0.43	1	1	0	900	900	0
2/19/2025 8:08	55101	WERT_T1	8	5	-3	0.8	0.38	-0.42	-1.22	-1.22	2	2	0	1500	1500	0
2/19/2025 8:08	40301	TAMA_T3	1	2	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 8:09	40302	TAMA_T3	8	7	-1	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
2/19/2025 8:09	40301	TAMA_T3	1	2	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 8:09	55101	WERT_T1	8	5	-3	0.8	0.38	-0.42	-1.22	-1.22	2	2	0	1500	1500	0
2/19/2025 8:10	46203	DANV_T2	23	74	51	0.99	0.7	-0.29	0	0	0	0	0	0	0	0
2/19/2025 8:10	46206	DANV_T2	91	57	-34	0.63	0.51	-0.12	2.08	3	2	1	-1	2100	1200	-900
2/19/2025 8:10	46204	DANV_T2	120	121	1	1.33	0.93	-0.4	0	0	0	0	0	0	0	0
2/19/2025 8:10	16302	ALPA_T2	0	0	0	0	0	0	-0.46	-0.55	0	0	0	0	0	0
2/19/2025 8:11	40302	TAMA_T3	8	7	-1	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
2/19/2025 8:11	40301	TAMA_T3	1	2	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 8:12	46203	DANV_T2	23	74	51	0.99	0.7	-0.29	-1.31	-1.36	0	0	0	0	0	0
2/19/2025 8:12	16302	ALPA_T2	0	0	0	0	0	0	-0.92	-1.09	0	0	0	0	0	0
2/19/2025 8:12	46206	DANV_T2	91	57	-34	0.63	0.51	-0.12	2.08	3	2	1	-1	2100	1200	-900
2/19/2025 8:12	55101	WERT_T1	8	5	-3	0.8	0.38	-0.42	-1.22	-1.22	2	2	0	1500	1500	0
2/19/2025 8:12	46204	DANV_T2	120	121	1	1.33	0.93	-0.4	0	0	0	0	0	0	0	0
2/19/2025 8:13	45501	DERR_T2	14	9	-5	0.43	0.34	-0.09	0.89	0.87	2	2	0	1800	1800	0
2/19/2025 8:13	20603	GRWO_T2	21	21	0	1.71	2.12	0.41	0	0	0	0	0	0	0	0
2/19/2025 8:13	20601	GRWO_T2	38	74	36	0.67	0.68	0.01	0.25	0.22	0	0	0	0	0	0
2/19/2025 8:13	45502	DERR_T2	6	7	1	0.47	0.7	0.23	0	0	0	0	0	0	0	0
2/19/2025 8:13	20602	GRWO_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 8:13	44301	BEAV_T2	6	2	-4	0.87	0	-0.87	0	0	0	0	0	0	0	0
2/19/2025 8:14	44504	HAMI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 8:14	44501	HAMI_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 8:14	46206	DANV_T2	91	57	-34	0.63	0.51	-0.12	0	0	0	0	0	0	0	0
2/19/2025 8:14	16302	ALPA_T2	0	0	0	0	0	0	-1.39	-1.64	0	0	0	0	0	0
2/19/2025 8:14	46204	DANV_T2	120	121	1	1.33	0.93	-0.4	0	0	0	0	0	0	0	0
2/19/2025 8:14	46203	DANV_T2	23	74	51	0.99	0.7	-0.29	-1.31	-1.36	0	0	0	0	0	0
2/19/2025 8:14	44502	HAMI_T2	2	2	0	1.55	1.7	0.15	0.06	0.06	0	0	0	0	0	0
2/19/2025 8:15	20601	GRWO_T2	74	52	-22	0.71	0.66	-0.05	0.25	0.22	0	0	0	0	0	0
2/19/2025 8:15	20602	GRWO_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/19/2025 8:15	20603	GRWO_T2	21	21	0	2.12	2.1	-0.02	0	0	0	0	0	0	0	0
2/19/2025 8:16	53902	HALI_T2	1	1	0	3.5	3.8	0.3	-1	-1	0	0	0	0	0	0
2/19/2025 8:16	46203	DANV_T2	35	93	58	0.93	0.66	-0.27	0	0	0	0	0	0	0	0
2/19/2025 8:16	46206	DANV_T2	28	57	29	0.55	0.56	0.01	2.08	3	2	1	-1	2100	1200	-900
2/19/2025 8:16	46204	DANV_T2	119	119	0	1.19	0.73	-0.46	0	0	0	0	0	0	0	0
2/19/2025 8:19	64203	KINZ_T1	12	13	1	1.42	1.14	-0.28	0	0	0	0	0	0	0	0
2/19/2025 8:19	64201	KINZ_T1	14	15	1	1.08	0.68	-0.4	-0.65	-0.8	4	4	0	2100	2100	0
2/19/2025 8:19	64204	KINZ_T1	1	3	2	0.1	1.1	1	0	0	0	0	0	0	0	0
2/19/2025 8:19	64202	KINZ_T1	2	3	1	0.7	0.57	-0.13	0	0	0	0	0	0	0	0
2/19/2025 8:20	42001	MNVL_T2	1	1	0	0.1	0	-0.1	0.4	0.37	0	0	0	0	0	0
2/19/2025 8:22	41902	REED_T1	2	3	1	0.3	0	-0.3	-0.43	-0.46	1	1	0	900	900	0
2/19/2025 8:22	52102	MEIS_T1	3	2	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/19/2025 8:22	41903	REED_T1	4	4	0	0.78	0.13	-0.65	0	0	0	0	0	0	0	0
2/19/2025 8:22	41901	REED_T1	2	1	-1	0.7	0.7	0	0	0	0	0	0	0	0	0
2/19/2025 8:22	52101	MEIS_T1	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
2/19/2025 8:25	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 8:29	46001	BERW_T1	0	0	0	0	0	0	2.22	1.86	0	0	0	0	0	0
2/19/2025 8:30	22805	HAUT_T2	142	125	-17	1.18	1.1	-0.08	0	0	0	0	0	0	0	0
2/19/2025 8:30	22803	HAUT_T2	60	68	8	1.26	0.8	-0.46	0	0	0	0	0	0	0	0
2/19/2025 8:32	47103	MARL_T2	0	0	0	0	0	0	-1.51	-1.5	0	0	0	0	0	0
2/19/2025 8:35	65603	QVIL_T2	0	0	0	0	0	0	-0.16	0.84	0	0	0	0	0	0
2/19/2025 8:36	41902	REED_T1	3	7	4	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/19/2025 8:36	65601	QVIL_T2	0	0	0	0	0	0	-0.77	-0.75	1	1	0	900	900	0
2/19/2025 8:36	41901	REED_T1	1	3	2	1	0	-1	0	0	0	0	0	0	0	0
2/19/2025 8:36	41903	REED_T1	4	4	0	0.83	0.13	-0.7	0	0	0	0	0	0	0	0
2/19/2025 8:37	22805	HAUT_T2	142	125	-17	1.18	1.1	-0.08	0	0	0	0	0	0	0	0
2/19/2025 8:37	22803	HAUT_T2	60	68	8	1.26	0.8	-0.46	0	0	0	0	0	0	0	0
2/19/2025 8:38	17102	WTRE_T2	0	1	1	0	0.1	0.1	-0.39	-0.33	2	2	0	2400	2400	0
2/19/2025 8:38	17101	WTRE_T2	3	3	0	5.07	5.57	0.5	0	0	0	0	0	0	0	0
2/19/2025 8:39	59101	WALK_T2	0	1	1	0	0	0	0.95	1	0	0	0	0	0	0
2/19/2025 8:40	25801	SUTR_T2	18	11	-7	1.61	3.09	1.48	-0.42	-0.44	0	0	0	0	0	0
2/19/2025 8:41	46204	DANV_T2	119	110	-9	0.92	0.65	-0.27	0	0	0	0	0	0	0	0
2/19/2025 8:41	55101	WERT_T1	5	1	-4	0.4	0	-0.4	-2.42	-2.37	4	4	0	3000	3000	0
2/19/2025 8:41	46206	DANV_T2	57	23	-34	0.55	0.63	0.08	0	0	0	0	0	0	0	0
2/19/2025 8:41	46203	DANV_T2	73	117	44	0.71	0.62	-0.09	-1.38	-1.42	0	0	0	0	0	0
2/19/2025 8:41	53601	DALM_T2	5	7	2	0.14	0.68	0.54	-0.62	-0.6	1	1	0	900	900	0
2/19/2025 8:42	46204	DANV_T2	119	110	-9	0.92	0.65	-0.27	0	0	0	0	0	0	0	0
2/19/2025 8:42	46203	DANV_T2	73	117	44	0.71	0.62	-0.09	-1.38	-1.42	0	0	0	0	0	0
2/19/2025 8:42	46206	DANV_T2	57	23	-34	0.55	0.63	0.08	0	0	0	0	0	0	0	0
2/19/2025 8:44	52403	GRPA_T2	4	5	1	0.8	1.07	0.27	0	0	0	0	0	0	0	0
2/19/2025 8:44	46203	DANV_T2	73	117	44	0.71	0.62	-0.09	-1.38	-1.42	0	0	0	0	0	0
2/19/2025 8:44	13601	RICH_T2	5	5	0	1.04	1.4	0.36	0	0	0	0	0	0	0	0
2/19/2025 8:44	46206	DANV_T2	57	23	-34	0.55	0.63	0.08	0	0	0	0	0	0	0	0
2/19/2025 8:44	52404	GRPA_T2	0	0	0	0	0	0	0.02	0.12	0	0	0	0	0	0
2/19/2025 8:44	17102	WTRE_T2	0	1	1	0	0.1	0.1	-0.39	-0.33	2	2	0	2400	2400	0
2/19/2025 8:44	52402	GRPA_T2	71	62	-9	0.84	0.82	-0.02	0	0	0	0	0	0	0	0
2/19/2025 8:44	17101	WTRE_T2	3	3	0	5.07	5.57	0.5	0	0	0	0	0	0	0	0
2/19/2025 8:44	46204	DANV_T2	119	110	-9	0.92	0.65	-0.27	0	0	0	0	0	0	0	0
2/19/2025 8:44	13606	RICH_T2	27	27	0	0.97	0.81	-0.16	1.11	1.12	0	0	0	0	0	0
2/19/2025 8:45	52403	GRPA_T2	4	5	1	1.05	0.93	-0.12	-0.53	-0.48	0	0	0	0	0	0
2/19/2025 8:45	52402	GRPA_T2	60	111	51	0.84	0.81	-0.03	0	0	0	0	0	0	0	0
2/19/2025 8:45	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/19/2025 8:47	52004	LING_T2	2	2	0	5	5.2	0.2	0.3	0.25	0	0	0	0	0	0
2/19/2025 8:47	52403	GRPA_T2	4	5	1	1.05	0.93	-0.12	-0.53	-0.48	0	0	0	0	0	0
2/19/2025 8:47	52404	GRPA_T2	0	0	0	0	0	0	0.02	0.12	0	0	0	0	0	0
2/19/2025 8:47	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/19/2025 8:47	43201	MVIL_T2	0	0	0	0	0	0	-0.22	-0.29	0	0	0	0	0	0
2/19/2025 8:47	42903	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 8:47	52402	GRPA_T2	60	111	51	0.84	0.81	-0.03	0	0	0	0	0	0	0	0
2/19/2025 8:47	42902	MIDD_T2	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0
2/19/2025 8:47	43202	MVIL_T2	1	2	1	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
2/19/2025 8:48	52403	GRPA_T2	4	5	1	1.05	0.93	-0.12	0	0	0	0	0	0	0	0
2/19/2025 8:48	52402	GRPA_T2	60	111	51	0.84	0.81	-0.03	0	0	0	0	0	0	0	0
2/19/2025 8:48	52001	LING_T1	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
2/19/2025 8:48	46602	LACR_T1	0	1	1	0	0.1	0.1	-0.59	-0.58	0	0	0	0	0	0
2/19/2025 8:48	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/19/2025 8:49	45003	LIME_2	61	64	3	0.83	0.83	0	0	0	0	0	0	0	0	0
2/19/2025 8:49	45002	LIME_2	1	1	0	4.1	4.6	0.5	-0.01	-0.1	0	0	0	0	0	0
2/19/2025 8:49	45001	LIME_2	41	33	-8	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/19/2025 8:49	46602	LACR_T1	0	1	1	0	0.1	0.1	-0.59	-0.58	0	0	0	0	0	0
2/19/2025 8:51	42301	MOWR_T2	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
2/19/2025 8:51	42302	MOWR_T2	26	30	4	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
2/19/2025 8:52	41901	REED_T1	1	3	2	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/19/2025 8:52	41903	REED_T1	3	4	1	0.13	0.35	0.22	0	0	0	0	0	0	0	0
2/19/2025 8:52	41902	REED_T1	0	11	11	0	0.28	0.28	1	0.98	2	2	0	1800	1800	0
2/19/2025 8:53	41901	REED_T1	1	3	2	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/19/2025 8:53	41902	REED_T1	0	11	11	0	0.28	0.28	0.5	0.49	1	1	0	900	900	0
2/19/2025 8:53	41903	REED_T1	3	4	1	0.13	0.35	0.22	0	0	0	0	0	0	0	0
2/19/2025 8:54	56501	ROCK_T2	2	2	0	2.5	2.4	-0.1	0	0	0	0	0	0	0	0
2/19/2025 8:54	42701	AUGU_T1	11	9	-2	0.95	0.43	-0.52	0	0	0	0	0	0	0	0
2/19/2025 8:54	56504	ROCK_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
2/19/2025 8:57	42701	AUGU_T1	11	9	-2	0.95	0.43	-0.52	0	0	2	2	0	1800	1800	0
2/19/2025 8:58	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 8:58	40201	BEGA_T2	4	4	0	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
2/19/2025 8:58	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 8:58	16103	BING_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 8:59	44502	HAMI_T2	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
2/19/2025 8:59	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.46	0.41	0	0	0	0	0	0
2/19/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
2/19/2025 9:00	54505	ENOL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/19/2025 9:00	42301	MOWR_T2	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
2/19/2025 9:00	20401	ASHF_T2	1	6	5	0.6	0.37	-0.23	0.13	0.12	1	1	0	600	600	0
2/19/2025 9:00	40602	PIGR_T1	6	6	0	0.33	0.33	0	-0.77	-0.72	0	0	0	0	0	0
2/19/2025 9:00	28102	TWLA_T2	11	6	-5	0.41	0.35	-0.06	0.32	0.32	0	0	0	0	0	0
2/19/2025 9:00	55001	NEWP_T1	4	2	-2	0.53	0.1	-0.43	0	0	0	0	0	0	0	0
2/19/2025 9:00	54506	ENOL_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
2/19/2025 9:00	54503	ENOL_T2	1	2	1	1.6	0.2	-1.4	0	0	0	0	0	0	0	0
2/19/2025 9:00	42302	MOWR_T2	30	22	-8	0.23	0.26	0.03	-0.36	-0.37	0	0	0	0	0	0
2/19/2025 9:00	40601	PIGR_T1	115	96	-19	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
2/19/2025 9:00	20402	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 9:00	52403	GRPA_T2	4	3	-1	1.05	0.97	-0.08	-0.48	-0.6	0	0	0	0	0	0
2/19/2025 9:00	56501	ROCK_T2	2	2	0	2.5	6.6	4.1	0	0	0	0	0	0	0	0
2/19/2025 9:00	53601	DALM_T2	6	6	0	0.67	0.7	0.03	-0.6	-0.62	1	1	0	900	900	0
2/19/2025 9:00	56504	ROCK_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
2/19/2025 9:00	52402	GRPA_T2	52	47	-5	0.91	0.64	-0.27	0	0	0	0	0	0	0	0
2/19/2025 9:00	55002	NEWP_T1	5	5	0	0.78	0.96	0.18	-0.1	-0.13	0	0	0	0	0	0
2/19/2025 9:00	65503	MOJO_T2	0	0	0	0	0	0	-0.59	-0.7	1	1	0	900	900	0
2/19/2025 9:00	20403	ASHF_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/19/2025 9:00	65603	QVIL_T2	0	0	0	0	0	0	0.55	0.5	0	0	0	0	0	0
2/19/2025 9:00	42001	MNVL_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
2/19/2025 9:00	43202	MVIL_T2	1	2	1	1	0.9	-0.1	-0.9	-0.9	0	0	0	0	0	0
2/19/2025 9:00	52401	GRPA_T2	0	1	1	0	0.3	0.3	-0.42	-0.49	0	0	0	0	0	0
2/19/2025 9:01	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 9:01	52204	DEVO_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
2/19/2025 9:02	47502	NECO_T1	0	1	1	0	0.1	0.1	4.56	4.59	0	0	0	0	0	0
2/19/2025 9:03	44502	HAMI_T2	1	2	1	2	2.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 9:03	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.08	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/19/2025 9:04	48602	POCA_T1	0	0	0	0	0	0	0.64	0.6	0	0	0	0	0	0
2/19/2025 9:06	65601	QVIL_T2	0	0	0	0	0	0	-0.73	-0.76	1	1	0	900	900	0
2/19/2025 9:06	42301	MOWR_T2	0	0	0	0	0	0	-0.37	-0.3	0	0	0	0	0	0
2/19/2025 9:06	42302	MOWR_T2	30	22	-8	0.23	0.26	0.03	0	0	0	0	0	0	0	0
2/19/2025 9:07	44201	POIN_T1	0	48	48	0	0.18	0.18	-1.88	-1.95	1	1	0	1200	1200	0
2/19/2025 9:07	45402	WBLO_T2	4	6	2	0.43	0.64	0.21	-0.29	-0.29	0	0	0	0	0	0
2/19/2025 9:08	55001	NEWP_T1	4	2	-2	0.53	0.1	-0.43	-1.4	-1.34	2	2	0	1200	1200	0
2/19/2025 9:08	55002	NEWP_T1	5	5	0	0.78	0.96	0.18	0	0	0	0	0	0	0	0
2/19/2025 9:08	44201	POIN_T1	0	48	48	0	0.18	0.18	-3.76	-3.91	2	2	0	2400	2400	0
2/19/2025 9:08	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 9:09	40201	BEGA_T2	3	3	0	0.53	0.8	0.27	0	0	0	0	0	0	0	0
2/19/2025 9:09	60701	BREC_T1	3	13	10	0.4	0.16	-0.24	-0.74	-0.75	2	2	0	1200	1200	0
2/19/2025 9:10	29401	BELT_T1	24	0	-24	0.2	0	-0.2	0	0	1	1	0	900	900	0
2/19/2025 9:10	17102	WTRE_T2	1	2	1	0.1	0.1	0	-1.03	-0.7	4	4	0	4800	4800	0
2/19/2025 9:10	29402	BELT_T1	4	2	-2	2.28	4.3	2.02	0	0	0	0	0	0	0	0
2/19/2025 9:10	16102	BING_T2	0	0	0	0	0	0	0.1	0.16	0	0	0	0	0	0
2/19/2025 9:10	17101	WTRE_T2	3	3	0	5.57	5.63	0.06	0	0	0	0	0	0	0	0
2/19/2025 9:10	59101	WALK_T2	0	0	0	0	0	0	0.93	0.82	0	0	0	0	0	0
2/19/2025 9:10	45501	DERR_T2	1	0	-1	0.4	0	-0.4	0.74	0.68	2	2	0	1800	1800	0
2/19/2025 9:10	46206	DANV_T2	18	21	3	0.72	0.41	-0.31	0	0	0	0	0	0	0	0
2/19/2025 9:10	16302	ALPA_T2	5	7	2	0.12	0.21	0.09	-0.49	-0.51	0	0	0	0	0	0
2/19/2025 9:10	46203	DANV_T2	109	82	-27	0.62	0.66	0.04	-1.43	-1.42	0	0	0	0	0	0
2/19/2025 9:10	46204	DANV_T2	110	119	9	0.7	0.86	0.16	0	0	0	0	0	0	0	0
2/19/2025 9:10	45502	DERR_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/19/2025 9:11	60701	BREC_T1	3	13	10	0.4	0.16	-0.24	-1.49	-1.51	4	4	0	2400	2400	0
2/19/2025 9:12	16302	ALPA_T2	5	7	2	0.12	0.21	0.09	-1.48	-1.52	0	0	0	0	0	0
2/19/2025 9:13	46203	DANV_T2	109	82	-27	0.62	0.66	0.04	-2.86	-2.84	0	0	0	0	0	0
2/19/2025 9:13	60701	BREC_T1	3	13	10	0.4	0.16	-0.24	-2.23	-2.26	6	6	0	3600	3600	0
2/19/2025 9:13	46204	DANV_T2	110	119	9	0.7	0.86	0.16	0	0	0	0	0	0	0	0
2/19/2025 9:13	26602	BROO_T2	3	5	2	1.03	0.37	-0.66	0	0	0	0	0	0	0	0
2/19/2025 9:13	46206	DANV_T2	18	21	3	0.72	0.41	-0.31	5.54	5.53	2	2	0	2400	2400	0
2/19/2025 9:13	40201	BEGA_T2	3	3	0	0.53	0.8	0.27	0	0	0	0	0	0	0	0
2/19/2025 9:13	29401	BELT_T1	24	0	-24	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 9:13	29402	BELT_T1	4	2	-2	2.28	4.3	2.02	0	0	0	0	0	0	0	0
2/19/2025 9:13	26604	BROO_T2	3	7	4	2.4	1	-1.4	0	0	0	0	0	0	0	0
2/19/2025 9:14	46206	DANV_T2	18	21	3	0.72	0.41	-0.31	0	0	0	0	0	0	0	0
2/19/2025 9:14	17803	GILB_T2	12	1	-11	0.88	0.3	-0.58	0	0	0	0	0	0	0	0
2/19/2025 9:14	46203	DANV_T2	109	82	-27	0.62	0.66	0.04	-1.43	-1.42	0	0	0	0	0	0
2/19/2025 9:14	16103	BING_T2	0	0	0	0	0	0	-1.97	-1.99	2	2	0	1500	1500	0
2/19/2025 9:14	46204	DANV_T2	110	119	9	0.7	0.86	0.16	0	0	0	0	0	0	0	0
2/19/2025 9:14	44502	HAMI_T2	1	2	1	2	2.1	0.1	0.07	0.07	0	0	0	0	0	0
2/19/2025 9:14	16302	ALPA_T2	5	7	2	0.12	0.21	0.09	-0.99	-1.01	0	0	0	0	0	0
2/19/2025 9:14	17805	GILB_T2	4	1	-3	0.93	0.2	-0.73	-0.35	-0.35	0	0	0	0	0	0
2/19/2025 9:14	60701	BREC_T1	3	13	10	0.4	0.16	-0.24	-0.74	-0.75	2	2	0	1200	1200	0
2/19/2025 9:14	17804	GILB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 9:15	54503	ENOL_T2	2	1	-1	1	0.2	-0.8	-0.95	-0.95	1	1	0	600	600	0
2/19/2025 9:15	54505	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/19/2025 9:15	46206	DANV_T2	17	17	0	0.54	0	-0.54	2.77	2.77	1	1	0	1200	1200	0
2/19/2025 9:15	46204	DANV_T2	114	119	5	0.89	0.42	-0.47	0	0	0	0	0	0	0	0
2/19/2025 9:15	45501	DERR_T2	0	0	0	0	0	0	1.49	1.36	4	4	0	3600	3600	0
2/19/2025 9:15	46203	DANV_T2	78	103	25	0.67	0.69	0.02	-1.43	-1.42	0	0	0	0	0	0
2/19/2025 9:15	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 9:16	45003	LIME_2	64	52	-12	1.27	0.79	-0.48	2.67	2.54	0	0	0	0	0	0
2/19/2025 9:16	45004	LIME_2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 9:16	45001	LIME_2	27	21	-6	0.4	0.42	0.02	0	0	0	0	0	0	0	0
2/19/2025 9:16	46206	DANV_T2	17	17	0	0.54	0	-0.54	0	0	0	0	0	0	0	0
2/19/2025 9:16	11507	FREE_T2	86	191	105	0.83	0.8	-0.03	1.97	1.8	0	0	0	0	0	0
2/19/2025 9:16	45002	LIME_2	1	1	0	4.6	4.7	0.1	0	0	0	0	0	0	0	0
2/19/2025 9:16	45802	HEGI_T2	5	47	42	0.56	2	1.44	1.19	0.26	0	0	0	0	0	0
2/19/2025 9:16	46204	DANV_T2	114	119	5	0.89	0.42	-0.47	0	0	0	0	0	0	0	0
2/19/2025 9:16	44502	HAMI_T2	1	2	1	2.1	2	-0.1	0.14	0.14	0	0	0	0	0	0
2/19/2025 9:16	46203	DANV_T2	78	103	25	0.67	0.69	0.02	-1.43	-1.42	0	0	0	0	0	0
2/19/2025 9:17	22803	HAUT_T2	62	73	11	1.18	1.05	-0.13	0	0	0	0	0	0	0	0
2/19/2025 9:17	20601	GRWO_T2	20	11	-9	0.64	0.6	-0.04	0.17	0.2	0	0	0	0	0	0
2/19/2025 9:17	22805	HAUT_T2	118	145	27	1.08	1.02	-0.06	0	0	0	0	0	0	0	0
2/19/2025 9:17	45802	HEGI_T2	5	47	42	0.56	2	1.44	1.19	0.26	0	0	0	0	0	0
2/19/2025 9:17	45001	LIME_2	27	21	-6	0.4	0.42	0.02	0	0	0	0	0	0	0	0
2/19/2025 9:17	45002	LIME_2	1	1	0	4.6	4.7	0.1	0	0	0	0	0	0	0	0
2/19/2025 9:17	45003	LIME_2	64	52	-12	1.27	0.79	-0.48	1.78	1.69	0	0	0	0	0	0
2/19/2025 9:17	45004	LIME_2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 9:17	20603	GRWO_T2	21	21	0	2.49	1.97	-0.52	0	0	0	0	0	0	0	0
2/19/2025 9:18	45002	LIME_2	1	1	0	4.6	4.7	0.1	0	0	0	0	0	0	0	0
2/19/2025 9:18	47104	MARL_T1	0	0	0	0	0	0	-2.05	-2.05	0	0	0	0	0	0
2/19/2025 9:18	25402	LAHA_T2	99	111	12	0.77	0.71	-0.06	-0.16	-0.1	0	0	0	0	0	0
2/19/2025 9:18	60501	NMAN_T2	35	50	15	0.24	0.25	0.01	0	0	0	0	0	0	0	0
2/19/2025 9:18	45802	HEGI_T2	5	47	42	0.56	2	1.44	0	0	0	0	0	0	0	0
2/19/2025 9:18	47101	MARL_T1	24	34	10	1.21	1.29	0.08	0	0	0	0	0	0	0	0
2/19/2025 9:18	45004	LIME_2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 9:18	45003	LIME_2	64	52	-12	1.27	0.79	-0.48	0.89	0.85	0	0	0	0	0	0
2/19/2025 9:18	45001	LIME_2	27	21	-6	0.4	0.42	0.02	0	0	0	0	0	0	0	0
2/19/2025 9:18	47103	MARL_T2	0	0	0	0	0	0	-1.53	-1.52	0	0	0	0	0	0
2/19/2025 9:18	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 9:19	43201	MVIL_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
2/19/2025 9:19	45002	LIME_2	1	1	0	4.6	4.7	0.1	0	0	0	0	0	0	0	0
2/19/2025 9:19	52102	MEIS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 9:19	45004	LIME_2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 9:19	52101	MEIS_T1	1	1	0	1.3	0.2	-1.1	0	0	0	0	0	0	0	0
2/19/2025 9:19	41901	REED_T1	1	4	3	0.1	0.7	0.6	0	0	0	0	0	0	0	0
2/19/2025 9:19	43202	MVIL_T2	2	3	1	0.75	0.2	-0.55	0	0	0	0	0	0	0	0
2/19/2025 9:19	47103	MARL_T2	0	0	0	0	0	0	-1.53	-1.52	0	0	0	0	0	0
2/19/2025 9:19	41902	REED_T1	8	6	-2	0.51	0.25	-0.26	0.49	0.49	1	1	0	900	900	0
2/19/2025 9:19	45003	LIME_2	64	52	-12	1.27	0.79	-0.48	0.89	0.85	0	0	0	0	0	0
2/19/2025 9:19	46602	LACR_T1	1	1	0	0.1	0.6	0.5	-0.64	-0.64	0	0	0	0	0	0
2/19/2025 9:19	41903	REED_T1	4	4	0	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/19/2025 9:19	45001	LIME_2	27	21	-6	0.4	0.42	0.02	0	0	0	0	0	0	0	0
2/19/2025 9:20	46602	LACR_T1	1	1	0	0.1	0.6	0.5	-0.64	-0.64	0	0	0	0	0	0
2/19/2025 9:21	49803	UNIV_T1	1	1	0	6.1	6	-0.1	-0.8	-0.82	0	0	0	0	0	0
2/19/2025 9:21	49804	UNIV_T1	0	0	0	0	0	0	0.76	0.72	0	0	0	0	0	0
2/19/2025 9:22	60501	NMAN_T2	35	50	15	0.24	0.25	0.01	0	0	0	0	0	0	0	0
2/19/2025 9:22	60502	NMAN_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
2/19/2025 9:22	44502	HAMI_T2	1	2	1	2.1	2	-0.1	0.07	0.08	0	0	0	0	0	0
2/19/2025 9:23	60501	NMAN_T2	35	50	15	0.24	0.25	0.01	0	0	0	0	0	0	0	0
2/19/2025 9:23	66903	SHIL_T2	0	0	0	0	0	0	-1.16	-1.13	0	0	0	0	0	0
2/19/2025 9:23	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 9:24	41903	REED_T1	4	4	0	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/19/2025 9:24	41902	REED_T1	8	6	-2	0.51	0.25	-0.26	0.98	0.94	2	2	0	1800	1800	0
2/19/2025 9:24	41901	REED_T1	1	4	3	0.1	0.7	0.6	0	0	0	0	0	0	0	0
2/19/2025 9:24	55101	WERT_T1	1	8	7	0.2	0.64	0.44	0	0	0	0	0	0	0	0
2/19/2025 9:24	66901	SHIL_T2	0	0	0	0	0	0	-1.09	-1.11	1	1	0	1200	1200	0
2/19/2025 9:25	55101	WERT_T1	1	8	7	0.2	0.64	0.44	-1.21	-1.2	2	2	0	1500	1500	0
2/19/2025 9:27	55101	WERT_T1	1	8	7	0.2	0.64	0.44	-1.21	-1.2	2	2	0	1500	1500	0
2/19/2025 9:28	52403	GRPA_T2	3	4	1	1	1.35	0.35	-0.6	-0.57	0	0	0	0	0	0
2/19/2025 9:28	52401	GRPA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/19/2025 9:28	52402	GRPA_T2	40	58	18	0.81	0.64	-0.17	0	0	0	0	0	0	0	0
2/19/2025 9:29	52402	GRPA_T2	40	58	18	0.81	0.64	-0.17	0	0	0	0	0	0	0	0
2/19/2025 9:29	53601	DALM_T2	1	7	6	0.7	0.43	-0.27	-0.6	-0.48	1	1	0	900	900	0
2/19/2025 9:29	52401	GRPA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/19/2025 9:29	52403	GRPA_T2	3	4	1	1	1.35	0.35	0	0	0	0	0	0	0	0
2/19/2025 9:29	52404	GRPA_T2	0	0	0	0	0	0	-0.02	0.04	0	0	0	0	0	0
2/19/2025 9:30	45701	LIND_T2	1	1	0	0.2	0.2	0	-0.19	-0.21	0	0	0	0	0	0
2/19/2025 9:30	16504	STRO_T1	0	0	0	0	0	0	-0.43	-0.46	1	1	0	1200	1200	0
2/19/2025 9:30	45702	LIND_T2	1	6	5	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
2/19/2025 9:30	16505	STRO_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 9:31	52004	LING_T2	2	2	0	4.9	4.65	-0.25	0	0	0	0	0	0	0	0
2/19/2025 9:31	52002	LING_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
2/19/2025 9:32	16902	MECK_T1	75	95	20	0.72	0.76	0.04	-0.99	-1.01	0	0	0	0	0	0
2/19/2025 9:32	16901	MECK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 9:33	45702	LIND_T2	1	6	5	0.2	0.17	-0.03	-0.21	-0.19	0	0	0	0	0	0
2/19/2025 9:33	45701	LIND_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/19/2025 9:33	28403	HART_T2	0	0	0	0	0	0	-0.62	-0.61	1	1	0	900	900	0
2/19/2025 9:42	16901	MECK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 9:42	16902	MECK_T1	75	95	20	0.72	0.76	0.04	-2.02	-2.02	0	0	0	0	0	0
2/19/2025 9:42	66903	SHIL_T2	0	0	0	0	0	0	-1.13	-1.16	0	0	0	0	0	0
2/19/2025 9:42	42902	MIDD_T2	0	1	1	0	0	0	-0.14	-0.16	0	0	0	0	0	0
2/19/2025 9:43	41903	REED_T1	4	0	-4	0.65	0	-0.65	0	0	0	0	0	0	0	0
2/19/2025 9:43	41902	REED_T1	5	5	0	0.28	0.2	-0.08	0.47	0.43	1	1	0	900	900	0
2/19/2025 9:43	52102	MEIS_T1	0	2	2	0	0	0	0	0	1	1	0	450	450	0
2/19/2025 9:43	41901	REED_T1	4	1	-3	0.58	0	-0.58	0	0	0	0	0	0	0	0
2/19/2025 9:43	52101	MEIS_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/19/2025 9:44	16302	ALPA_T2	7	9	2	0.21	0.17	-0.04	-0.39	-0.53	0	0	0	0	0	0
2/19/2025 9:45	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 9:46	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
2/19/2025 9:47	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
2/19/2025 9:49	42903	MIDD_T2	0	0	0	0	0	0	0.44	0.69	1	1	0	1200	1200	0
2/19/2025 9:49	42902	MIDD_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/19/2025 9:53	65604	QVIL_T2	0	0	0	0	0	0	0.69	0.67	0	0	0	0	0	0
2/19/2025 9:53	67402	WAKE_T2	0	1	1	0	0	0	0.54	0.59	1	1	0	600	600	0
2/19/2025 9:54	55101	WERT_T1	5	8	3	0.64	0.8	0.16	-1.23	-1.15	2	2	0	1500	1500	0
2/19/2025 9:55	67402	WAKE_T2	0	1	1	0	0	0	0.54	0.59	1	1	0	600	600	0
2/19/2025 9:55	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 9:55	55101	WERT_T1	5	8	3	0.64	0.8	0.16	-1.23	-1.15	2	2	0	1500	1500	0
2/19/2025 9:56	55101	WERT_T1	5	8	3	0.64	0.8	0.16	-1.23	-1.15	2	2	0	1500	1500	0
2/19/2025 9:57	46001	BERW_T1	0	0	0	0	0	0	0.96	0.95	0	0	0	0	0	0
2/19/2025 9:58	11104	EGYP_T1	4	2	-2	0.4	0.85	0.45	1.34	1.28	0	0	0	0	0	0
2/19/2025 9:58	45303	WBER_T2	1	1	0	9.2	9	-0.2	0	0	0	0	0	0	0	0
2/19/2025 9:58	11101	EGYP_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/19/2025 9:58	45301	WBER_T2	0	0	0	0	0	0	0.03	0.03	1	1	0	1200	1200	0
2/19/2025 9:58	45302	WBER_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/19/2025 9:58	55101	WERT_T1	5	8	3	0.64	0.8	0.16	-1.23	-1.15	2	2	0	1500	1500	0
2/19/2025 9:59	53901	HALI_T2	0	0	0	0	0	0	-1.22	-1.19	0	0	0	0	0	0
2/19/2025 9:59	53902	HALI_T2	1	1	0	3.6	3.8	0.2	0	0	0	0	0	0	0	0
2/19/2025 10:01	53501	EVIL_T2	0	1	1	0	0.4	0.4	-2.59	-2.52	4	4	0	2700	2700	0
2/19/2025 10:01	53502	EVIL_T2	12	12	0	1.3	2.3	1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/19/2025 10:01	53902	HALI_T2	1	1	0	3.8	3.9	0.1	0	0	0	0	0	0	0	0
2/19/2025 10:01	53901	HALI_T2	0	0	0	0	0	0	-1.22	-1.19	0	0	0	0	0	0
2/19/2025 10:01	21606	EYNO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 10:01	21601	EYNO_T1	11	86	75	0.75	0.52	-0.23	0	0	0	0	0	0	0	0
2/19/2025 10:02	53902	HALI_T2	1	1	0	3.8	3.9	0.1	0	0	0	0	0	0	0	0
2/19/2025 10:02	53901	HALI_T2	0	0	0	0	0	0	-1.22	-1.19	0	0	0	0	0	0
2/19/2025 10:02	11104	EGYP_T1	2	2	0	0.95	0.95	0	0.67	0.64	0	0	0	0	0	0
2/19/2025 10:03	53902	HALI_T2	1	1	0	3.8	3.9	0.1	0	0	0	0	0	0	0	0
2/19/2025 10:03	52001	LING_T1	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
2/19/2025 10:03	53901	HALI_T2	0	0	0	0	0	0	-2.43	-2.37	0	0	0	0	0	0
2/19/2025 10:04	55001	NEWP_T1	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
2/19/2025 10:04	55002	NEWP_T1	4	5	1	1	0.78	-0.22	-0.11	-0.09	0	0	0	0	0	0
2/19/2025 10:06	44203	POIN_T2	0	4	4	0	0	0	0.4	0.33	4	4	0	4200	4200	0
2/19/2025 10:08	57403	SPAN_T1	2	5	3	0.15	0.2	0.05	0.32	0.3	0	0	0	0	0	0
2/19/2025 10:09	52502	PROG_T2	0	0	0	0	0	0	-0.21	-0.18	1	1	0	900	900	0
2/19/2025 10:09	57403	SPAN_T1	2	5	3	0.15	0.2	0.05	0.32	0.3	0	0	0	0	0	0
2/19/2025 10:09	16801	WAGN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 10:10	57205	ROSS_T1	0	0	0	0	0	0	-0.67	-0.67	1	1	0	900	900	0
2/19/2025 10:10	60701	BREC_T1	19	63	44	0.19	0.22	0.03	-3.14	-3.23	8	8	0	4800	4800	0
2/19/2025 10:11	52401	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/19/2025 10:11	60701	BREC_T1	19	63	44	0.19	0.22	0.03	-0.79	-0.81	2	2	0	1200	1200	0
2/19/2025 10:11	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 10:11	52402	GRPA_T2	61	52	-9	0.82	0.64	-0.18	0	0	0	0	0	0	0	0
2/19/2025 10:11	52403	GRPA_T2	2	8	6	2.15	0.68	-1.47	-0.6	-0.62	0	0	0	0	0	0
2/19/2025 10:12	60701	BREC_T1	19	63	44	0.19	0.22	0.03	-0.79	-0.81	2	2	0	1200	1200	0
2/19/2025 10:12	46203	DANV_T2	36	25	-11	0.66	0.48	-0.18	-0.59	-0.58	0	0	0	0	0	0
2/19/2025 10:12	46204	DANV_T2	2	5	3	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
2/19/2025 10:12	58302	NOTT_T1	0	0	0	0	0	0	-1.23	-1.22	2	2	0	2100	2100	0
2/19/2025 10:13	60701	BREC_T1	19	63	44	0.19	0.22	0.03	-0.79	-0.81	2	2	0	1200	1200	0
2/19/2025 10:14	52401	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/19/2025 10:14	52403	GRPA_T2	2	8	6	2.15	0.68	-1.47	-0.6	-0.62	0	0	0	0	0	0
2/19/2025 10:14	60701	BREC_T1	19	63	44	0.19	0.22	0.03	-0.79	-0.81	2	2	0	1200	1200	0
2/19/2025 10:14	52402	GRPA_T2	61	52	-9	0.82	0.64	-0.18	0	0	0	0	0	0	0	0
2/19/2025 10:15	46203	DANV_T2	25	13	-12	0.48	0.45	-0.03	-0.59	-0.58	0	0	0	0	0	0
2/19/2025 10:15	46204	DANV_T2	5	1	-4	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/19/2025 10:16	45702	LIND_T2	5	1	-4	0.16	0.6	0.44	-0.2	-0.19	0	0	0	0	0	0
2/19/2025 10:16	53502	EVIL_T2	1	12	11	2.8	2	-0.8	0	0	0	0	0	0	0	0
2/19/2025 10:16	45701	LIND_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 10:16	53501	EVIL_T2	0	1	1	0	0.4	0.4	-2.52	-2.61	4	4	0	2700	2700	0
2/19/2025 10:18	42902	MIDD_T2	1	1	0	0.9	0	-0.9	-0.12	-0.11	0	0	0	0	0	0
2/19/2025 10:18	42903	MIDD_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 10:19	42903	MIDD_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 10:19	42902	MIDD_T2	1	1	0	0.9	0	-0.9	-0.12	-0.11	0	0	0	0	0	0
2/19/2025 10:22	42903	MIDD_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 10:22	42902	MIDD_T2	1	1	0	0.9	0	-0.9	-0.21	-0.15	0	0	0	0	0	0
2/19/2025 10:23	52403	GRPA_T2	5	8	3	1.02	0.66	-0.36	0	0	0	0	0	0	0	0
2/19/2025 10:23	52402	GRPA_T2	48	51	3	0.69	0.67	-0.02	0	0	0	0	0	0	0	0
2/19/2025 10:23	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 10:23	52404	GRPA_T2	0	0	0	0	0	0	0.01	-0.05	0	0	0	0	0	0
2/19/2025 10:24	61506	EPET_T2	0	0	0	0	0	0	-0.76	-0.71	1	1	0	900	900	0
2/19/2025 10:26	45501	DERR_T2	0	1	1	0	0.7	0.7	0.95	0.57	2	2	0	1800	1800	0
2/19/2025 10:27	61502	EPET_T1	0	0	0	0	0	0	-2.24	-1.03	0	0	0	0	0	0
2/19/2025 10:27	60201	ATGL_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
2/19/2025 10:28	24105	EHAZ_T1	4	16	12	6.65	3.01	-3.64	-1.85	-1.8	1	1	0	1200	1200	0
2/19/2025 10:28	44801	EDAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 10:28	24104	EHAZ_T1	3	6	3	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
2/19/2025 10:28	24101	EHAZ_T1	96	92	-4	1.68	2.13	0.45	0	0	0	0	0	0	0	0
2/19/2025 10:28	24103	EHAZ_T1	20	22	2	1.04	1.71	0.67	0	0	0	0	0	0	0	0
2/19/2025 10:28	24102	EHAZ_T1	36	12	-24	1.09	1.37	0.28	0	0	0	0	0	0	0	0
2/19/2025 10:31	44801	EDAN_T2	1	1	0	0.2	1.1	0.9	-0.25	-0.25	0	0	0	0	0	0
2/19/2025 10:31	23401	HONE_T2	23	34	11	0.43	0.68	0.25	0.17	0.26	0	0	0	0	0	0
2/19/2025 10:32	23401	HONE_T2	23	34	11	0.43	0.68	0.25	0.17	0.26	0	0	0	0	0	0
2/19/2025 10:32	47901	HRDG_T1	0	0	0	0	0	0	2.03	2.21	0	0	0	0	0	0
2/19/2025 10:34	53901	HALI_T2	0	0	0	0	0	0	-1.3	-1.32	0	0	0	0	0	0
2/19/2025 10:34	53902	HALI_T2	1	1	0	3.9	4	0.1	0	0	0	0	0	0	0	0
2/19/2025 10:38	66903	SHIL_T2	0	0	0	0	0	0	-1.19	-1.14	0	0	0	0	0	0
2/19/2025 10:44	20603	GRWO_T2	24	30	6	3.44	1.13	-2.31	0	0	0	0	0	0	0	0
2/19/2025 10:44	20602	GRWO_T2	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
2/19/2025 10:44	20601	GRWO_T2	18	26	8	0.56	0.54	-0.02	0.22	0.18	0	0	0	0	0	0
2/19/2025 10:53	60201	ATGL_T2	0	0	0	0	0	0	0.37	0.51	0	0	0	0	0	0
2/19/2025 10:55	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 10:56	10601	BLGL_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/19/2025 10:56	10603	BLGL_T1	0	0	0	0	0	0	0.64	0.6	0	0	0	0	0	0
2/19/2025 10:56	44801	EDAN_T2	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
2/19/2025 10:57	40201	BEGA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 10:58	10801	CHHI_T1	1	0	-1	0.3	0	-0.3	-3.42	-3.44	6	6	0	4200	4200	0
2/19/2025 11:00	40501	CRES_T2	3	8	5	0.33	0.36	0.03	0	0	0	0	0	0	0	0
2/19/2025 11:01	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 11:01	45802	HEGI_T2	47	48	1	1.6	2.68	1.08	0	0	0	0	0	0	0	0
2/19/2025 11:03	40501	CRES_T2	3	8	5	0.33	0.36	0.03	0	0	0	0	0	0	0	0
2/19/2025 11:04	40501	CRES_T2	3	8	5	0.33	0.36	0.03	0	0	0	0	0	0	0	0
2/19/2025 11:08	52402	GRPA_T2	29	50	21	0.68	0.66	-0.02	0	0	0	0	0	0	0	0
2/19/2025 11:08	52401	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/19/2025 11:08	52403	GRPA_T2	2	19	17	1.45	0.37	-1.08	-0.66	-0.63	0	0	0	0	0	0
2/19/2025 11:11	45502	DERR_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 11:11	45501	DERR_T2	0	0	0	0	0	0	0.44	0.47	2	2	0	1800	1800	0
2/19/2025 11:12	45502	DERR_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 11:12	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 11:12	16102	BING_T2	0	0	0	0	0	0	0.27	0.16	0	0	0	0	0	0
2/19/2025 11:12	45501	DERR_T2	0	0	0	0	0	0	0.44	0.47	2	2	0	1800	1800	0
2/19/2025 11:13	20603	GRWO_T2	27	27	0	0.93	0.33	-0.6	0	0	0	0	0	0	0	0
2/19/2025 11:13	67303	WYOM_T2	0	1	1	0	0.1	0.1	-0.37	-0.43	0	0	0	0	0	0
2/19/2025 11:13	20602	GRWO_T2	1	3	2	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/19/2025 11:13	20601	GRWO_T2	15	15	0	0.53	1.4	0.87	0	0	0	0	0	0	0	0
2/19/2025 11:16	46803	HEPB_T2	0	0	0	0	0	0	0.54	0.49	0	0	0	0	0	0
2/19/2025 11:16	40501	CRES_T2	7	9	2	0.31	0.34	0.03	0	0	0	0	0	0	0	0
2/19/2025 11:16	46801	HEPB_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/19/2025 11:17	40501	CRES_T2	7	9	2	0.31	0.34	0.03	0	0	0	0	0	0	0	0
2/19/2025 11:18	40501	CRES_T2	7	9	2	0.31	0.34	0.03	0	0	0	0	0	0	0	0
2/19/2025 11:19	40501	CRES_T2	7	9	2	0.31	0.34	0.03	0	0	0	0	0	0	0	0
2/19/2025 11:19	54203	PENN_T1	104	161	57	0.36	0.39	0.03	0	0	0	0	0	0	0	0
2/19/2025 11:19	54201	PENN_T1	163	245	82	0.47	0.49	0.02	-1.34	-1.37	0	0	0	0	0	0
2/19/2025 11:19	54205	PENN_T1	2	34	32	0.1	0.1	0	0	0	0	0	0	0	0	0
2/19/2025 11:20	54203	PENN_T1	104	161	57	0.36	0.39	0.03	0.14	0.12	0	0	0	0	0	0
2/19/2025 11:20	54201	PENN_T1	163	245	82	0.47	0.49	0.02	0	0	0	0	0	0	0	0
2/19/2025 11:20	54205	PENN_T1	2	34	32	0.1	0.1	0	0	0	0	0	0	0	0	0
2/19/2025 11:21	43201	MVIL_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
2/19/2025 11:21	43202	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 11:22	54205	PENN_T1	2	34	32	0.1	0.1	0	0	0	0	0	0	0	0	0
2/19/2025 11:22	57401	SPAN_T1	1	0	-1	0.2	0	-0.2	-1.37	-0.81	1	1	0	600	600	0
2/19/2025 11:22	54203	PENN_T1	104	161	57	0.36	0.39	0.03	0.12	0.12	0	0	0	0	0	0
2/19/2025 11:22	57403	SPAN_T1	0	0	0	0	0	0	0.3	0.29	0	0	0	0	0	0
2/19/2025 11:22	54201	PENN_T1	163	245	82	0.47	0.49	0.02	0	0	0	0	0	0	0	0
2/19/2025 11:23	54203	PENN_T1	104	161	57	0.36	0.39	0.03	0	0	0	0	0	0	0	0
2/19/2025 11:23	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 11:23	54201	PENN_T1	163	245	82	0.47	0.49	0.02	-2.74	-2.69	0	0	0	0	0	0
2/19/2025 11:23	57401	SPAN_T1	1	0	-1	0.2	0	-0.2	-1.37	-0.81	1	1	0	600	600	0
2/19/2025 11:23	54205	PENN_T1	2	34	32	0.1	0.1	0	0	0	0	0	0	0	0	0
2/19/2025 11:24	60201	ATGL_T2	0	5	5	0	0.36	0.36	0.45	0.62	0	0	0	0	0	0
2/19/2025 11:25	57401	SPAN_T1	1	0	-1	0.2	0	-0.2	-1.37	-0.81	1	1	0	600	600	0
2/19/2025 11:27	57401	SPAN_T1	1	0	-1	0.2	0	-0.2	-1.37	-0.81	1	1	0	600	600	0
2/19/2025 11:28	44301	BEAV_T2	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
2/19/2025 11:33	40505	CRES_T1	0	0	0	0	0	0	0.51	0.46	0	0	0	0	0	0
2/19/2025 11:35	57704	PAXT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 11:35	52502	PROG_T2	0	3	3	0	0.23	0.23	-0.22	-0.26	1	1	0	900	900	0
2/19/2025 11:36	51204	MTON_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/19/2025 11:36	51202	MTON_T2	1	0	-1	0.1	0	-0.1	-0.86	-0.86	1	1	0	1200	1200	0
2/19/2025 11:38	24201	PROV_T3	6	5	-1	3.88	3.88	0	-1.33	-1.35	1	1	0	1200	1200	0
2/19/2025 11:38	59101	WALK_T2	0	0	0	0	0	0	0.65	1.1	0	0	0	0	0	0
2/19/2025 11:38	24204	PROV_T3	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
2/19/2025 11:39	59101	WALK_T2	0	0	0	0	0	0	0.65	1.1	0	0	0	0	0	0
2/19/2025 11:40	52101	MEIS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/19/2025 11:40	59101	WALK_T2	0	0	0	0	0	0	0.65	1.1	0	0	0	0	0	0
2/19/2025 11:40	52102	MEIS_T1	4	5	1	0.68	0.1	-0.58	0	0	1	1	0	450	450	0
2/19/2025 11:42	10801	CHHI_T1	0	1	1	0	0.8	0.8	-1.73	-1.81	3	3	0	2100	2100	0
2/19/2025 11:43	41602	CLEV_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
2/19/2025 11:43	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 11:44	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 11:44	41602	CLEV_T1	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
2/19/2025 11:44	10805	CHHI_T2	10	10	0	1.73	8.4	6.67	-0.74	-0.75	1	1	0	600	600	0
2/19/2025 11:45	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 11:46	53502	EVIL_T2	1	11	10	1	0.4	-0.6	0	0	0	0	0	0	0	0
2/19/2025 11:46	53501	EVIL_T2	3	1	-2	0.6	0.4	-0.2	-2.75	-2.01	4	3	-1	2700	2100	-600
2/19/2025 11:48	65502	MOJO_T2	0	2	2	0	0.1	0.1	-1.04	-0.64	1	1	0	900	900	0
2/19/2025 11:50	65502	MOJO_T2	0	2	2	0	0.1	0.1	-1.04	-0.64	1	1	0	900	900	0
2/19/2025 11:50	65503	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 11:51	55002	NEWP_T1	6	7	1	0.68	0.76	0.08	0	0	0	0	0	0	0	0
2/19/2025 11:51	60501	NMAN_T2	4	9	5	0.2	0.23	0.03	0	0	0	0	0	0	0	0
2/19/2025 11:51	60504	NMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 11:51	55001	NEWP_T1	0	2	2	0	0.15	0.15	-0.69	-0.73	1	1	0	600	600	0
2/19/2025 11:54	24204	PROV_T3	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
2/19/2025 11:54	52502	PROG_T2	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
2/19/2025 11:54	24201	PROV_T3	5	5	0	3.94	3.84	-0.1	-1.35	-1.39	1	1	0	1200	1200	0
2/19/2025 11:55	52502	PROG_T2	1	3	2	0.2	0.23	0.03	-0.26	-0.3	1	1	0	900	900	0
2/19/2025 11:55	40501	CRES_T2	8	8	0	0.36	0.43	0.07	0	0	0	0	0	0	0	0
2/19/2025 11:56	59101	WALK_T2	0	0	0	0	0	0	1.1	1.74	0	0	0	0	0	0
2/19/2025 11:58	20602	GRWO_T2	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
2/19/2025 11:58	20601	GRWO_T2	27	32	5	0.58	0.46	-0.12	0.36	0.33	0	0	0	0	0	0
2/19/2025 11:58	20603	GRWO_T2	21	13	-8	0.46	0.33	-0.13	0	0	0	0	0	0	0	0
2/19/2025 11:59	57401	SPAN_T1	0	0	0	0	0	0	-0.83	-0.81	1	1	0	600	600	0
2/19/2025 12:00	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 12:00	61304	EARL_T1	0	0	0	0	0	0	-0.55	-0.66	1	1	0	600	600	0
2/19/2025 12:00	11104	EGYP_T1	2	2	0	0.75	0.5	-0.25	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/19/2025 12:00	11101	EGYP_T1	1	2	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
2/19/2025 12:00	11103	EGYP_T1	0	0	0	0	0	0	-0.77	-0.7	0	0	0	0	0	0
2/19/2025 12:02	64501	LAVI_T1	0	0	0	0	0	0	-0.12	-0.16	0	0	0	0	0	0
2/19/2025 12:03	64501	LAVI_T1	0	0	0	0	0	0	-0.12	-0.16	0	0	0	0	0	0
2/19/2025 12:04	51202	MTON_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/19/2025 12:04	51204	MTON_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
2/19/2025 12:04	55001	NEWP_T1	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/19/2025 12:04	55002	NEWP_T1	7	7	0	0.69	1	0.31	-0.3	-0.24	0	0	0	0	0	0
2/19/2025 12:05	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 12:05	58202	NEWV_T1	0	10	10	0	0.54	0.54	0	0	0	0	0	0	0	0
2/19/2025 12:05	58201	NEWV_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/19/2025 12:05	55002	NEWP_T1	7	7	0	0.69	1	0.31	-0.15	-0.12	0	0	0	0	0	0
2/19/2025 12:05	60501	NMAN_T2	6	12	6	0.18	0.22	0.04	0	0	0	0	0	0	0	0
2/19/2025 12:05	55001	NEWP_T1	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/19/2025 12:05	60504	NMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 12:05	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 12:06	65601	QVIL_T2	29	58	29	0.21	0.26	0.05	0	0	0	0	0	0	0	0
2/19/2025 12:06	64101	REFR_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
2/19/2025 12:06	12301	LANA_T2	0	0	0	0	0	0	-0.93	-0.95	0	0	0	0	0	0
2/19/2025 12:06	65602	QVIL_T2	1	6	5	0.1	0.37	0.27	0	0	0	0	0	0	0	0
2/19/2025 12:06	65604	QVIL_T2	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/19/2025 12:06	65603	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 12:06	40501	CRES_T2	8	7	-1	0.43	0.34	-0.09	0	0	0	0	0	0	0	0
2/19/2025 12:07	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 12:08	55001	NEWP_T1	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/19/2025 12:08	64101	REFR_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
2/19/2025 12:08	55002	NEWP_T1	7	7	0	0.69	1	0.31	-0.12	-0.13	0	0	0	0	0	0
2/19/2025 12:09	64101	REFR_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
2/19/2025 12:10	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
2/19/2025 12:10	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 12:11	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 12:11	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
2/19/2025 12:12	44802	EDAN_T2	0	1	1	0	0.3	0.3	-1.99	-2	0	0	0	0	0	0
2/19/2025 12:12	18001	ZION_T1	3	3	0	6.2	6.43	0.23	0	0	0	0	0	0	0	0
2/19/2025 12:13	44802	EDAN_T2	0	1	1	0	0.3	0.3	-5.97	-6	0	0	0	0	0	0
2/19/2025 12:15	46203	DANV_T2	19	40	21	0.44	0.48	0.04	-0.65	-0.71	0	0	0	0	0	0
2/19/2025 12:15	41601	CLEV_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
2/19/2025 12:15	44802	EDAN_T2	0	1	1	0	0.9	0.9	-3.98	-4	0	0	0	0	0	0
2/19/2025 12:15	46201	DANV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 12:15	44801	EDAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/19/2025 12:15	46204	DANV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/19/2025 12:20	64904	MILL_T1	0	0	0	0	0	0	-0.14	-0.18	0	0	0	0	0	0
2/19/2025 12:20	65603	QVIL_T2	0	1	1	0	0.1	0.1	0.51	0.48	0	0	0	0	0	0
2/19/2025 12:20	65601	QVIL_T2	42	64	22	0.22	0.26	0.04	0	0	0	0	0	0	0	0
2/19/2025 12:20	65502	MOJO_T2	2	0	-2	0.1	0	-0.1	-0.81	-0.63	1	1	0	900	900	0
2/19/2025 12:20	65604	QVIL_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/19/2025 12:20	65602	QVIL_T2	3	8	5	0.3	0.33	0.03	0	0	0	0	0	0	0	0
2/19/2025 12:21	55001	NEWP_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/19/2025 12:21	65601	QVIL_T2	42	64	22	0.22	0.26	0.04	0	0	0	0	0	0	0	0
2/19/2025 12:21	67203	TEHI_T1	0	1	1	0	0	0	2.76	2.9	3	3	0	2100	2100	0
2/19/2025 12:21	65604	QVIL_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/19/2025 12:21	65603	QVIL_T2	0	1	1	0	0.1	0.1	0.48	0.86	0	0	0	0	0	0
2/19/2025 12:21	65901	SAKR_T2	1	1	0	8.8	9.1	0.3	-1.06	-1.03	1	1	0	900	900	0
2/19/2025 12:21	55002	NEWP_T1	7	7	0	0.67	1.04	0.37	-0.12	-0.13	0	0	0	0	0	0
2/19/2025 12:21	65902	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 12:21	65602	QVIL_T2	3	8	5	0.3	0.33	0.03	0	0	0	0	0	0	0	0
2/19/2025 12:22	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 12:22	66504	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/19/2025 12:22	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 12:23	65502	MOJO_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 12:23	67201	TEHI_T1	0	0	0	0	0	0	0.58	0.76	0	0	0	0	0	0
2/19/2025 12:23	67203	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 12:24	60803	BUCK_T1	16	18	2	0.36	0.4	0.04	0	0	0	0	0	0	0	0
2/19/2025 12:24	41903	REED_T1	3	0	-3	0.57	0	-0.57	0	0	0	0	0	0	0	0
2/19/2025 12:24	60801	BUCK_T1	1	6	5	0.3	0.25	-0.05	-0.08	-0.05	0	0	0	0	0	0
2/19/2025 12:24	41902	REED_T1	3	6	3	0.33	0.4	0.07	0.34	0.33	1	1	0	900	900	0
2/19/2025 12:25	67904	WNHO_T1	0	0	0	0	0	0	-2.04	-2.04	2	2	0	2100	2100	0
2/19/2025 12:25	67901	WNHO_T2	0	0	0	0	0	0	0.27	0.34	1	1	0	900	900	0
2/19/2025 12:26	65902	SAKR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 12:26	60803	BUCK_T1	16	18	2	0.36	0.4	0.04	0	0	0	0	0	0	0	0
2/19/2025 12:26	60801	BUCK_T1	1	6	5	0.3	0.25	-0.05	-0.08	-0.05	0	0	0	0	0	0
2/19/2025 12:26	65901	SAKR_T2	1	1	0	8.8	9.1	0.3	-1.06	-1.03	1	1	0	900	900	0
2/19/2025 12:28	16101	BING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/19/2025 12:28	16103	BING_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
2/19/2025 12:28	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 12:30	53502	EVIL_T2	10	11	1	0.28	0	-0.28	0	0	0	0	0	0	0	0
2/19/2025 12:30	53501	EVIL_T2	1	1	0	1.1	0.6	-0.5	-2.22	-2.06	3	3	0	2100	2100	0
2/19/2025 12:32	42902	MIDD_T2	7	1	-6	0.61	0.9	0.29	-0.09	-0.17	0	0	0	0	0	0
2/19/2025 12:32	42901	MIDD_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
2/19/2025 12:32	53502	EVIL_T2	10	11	1	0.28	0	-0.28	0	0	0	0	0	0	0	0
2/19/2025 12:32	53501	EVIL_T2	1	1	0	1.1	0.6	-0.5	-8.87	-8.25	12	12	0	8400	8400	0
2/19/2025 12:32	42903	MIDD_T2	3	2	-1	1.2	0.85	-0.35	0	0	0	0	0	0	0	0
2/19/2025 12:33	42901	MIDD_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
2/19/2025 12:33	42902	MIDD_T2	7	1	-6	0.61	0.9	0.29	-0.09	-0.17	0	0	0	0	0	0
2/19/2025 12:33	54502	ENOL_T2	0	0	0	0	0	0	-3.6	-3.92	2	2	0	1200	1200	0
2/19/2025 12:33	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/19/2025 12:33	42903	MIDD_T2	3	2	-1	1.2	0.85	-0.35	0	0	0	0	0	0	0	0
2/19/2025 12:34	42903	MIDD_T2	3	2	-1	1.2	0.85	-0.35	-0.01	0.55	1	1	0	1200	1200	0
2/19/2025 12:34	42901	MIDD_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
2/19/2025 12:34	42902	MIDD_T2	7	1	-6	0.61	0.9	0.29	0	0	0	0	0	0	0	0
2/19/2025 12:35	42902	MIDD_T2	7	1	-6	0.61	0.9	0.29	-0.18	-0.34	0	0	0	0	0	0
2/19/2025 12:35	24201	PROV_T3	5	6	1	4.1	4.04	-0.06	-1.34	-1.33	1	1	0	1200	1200	0
2/19/2025 12:35	42903	MIDD_T2	3	2	-1	1.2	0.85	-0.35	0	0	0	0	0	0	0	0
2/19/2025 12:35	24204	PROV_T3	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
2/19/2025 12:35	42901	MIDD_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
2/19/2025 12:38	14403	SSLA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 12:38	60803	BUCK_T1	16	19	3	0.36	0.39	0.03	0	0	0	0	0	0	0	0
2/19/2025 12:38	14402	SSLA_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
2/19/2025 12:38	14401	SSLA_T1	2	3	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 12:38	60801	BUCK_T1	1	6	5	0.2	0.25	0.05	-0.05	0.08	0	0	0	0	0	0
2/19/2025 12:39	41902	REED_T1	6	3	-3	0.55	0	-0.55	0.33	0.28	1	1	0	900	900	0
2/19/2025 12:40	14402	SSLA_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
2/19/2025 12:40	60201	ATGL_T2	7	55	48	0.34	0.25	-0.09	0.4	0.57	0	0	0	0	0	0
2/19/2025 12:40	14401	SSLA_T1	2	3	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 12:40	14403	SSLA_T1	0	1	1	0	0.2	0.2	0.87	0.88	0	0	0	0	0	0
2/19/2025 12:41	57403	SPAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 12:41	57401	SPAN_T1	0	0	0	0	0	0	-0.89	-0.91	1	1	0	600	600	0
2/19/2025 12:43	24103	EHAZ_T1	5	12	7	0.5	0.98	0.48	0	0	0	0	0	0	0	0
2/19/2025 12:43	57403	SPAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 12:43	57401	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 12:43	24104	EHAZ_T1	7	6	-1	0.27	0.3	0.03	-2.14	-2.14	1	1	0	1200	1200	0
2/19/2025 12:43	24105	EHAZ_T1	11	31	20	2.69	2.08	-0.61	0	0	0	0	0	0	0	0
2/19/2025 12:43	24102	EHAZ_T1	25	27	2	0.45	0.56	0.11	0	0	0	0	0	0	0	0
2/19/2025 12:43	24101	EHAZ_T1	59	83	24	1.69	1.56	-0.13	0	0	0	0	0	0	0	0
2/19/2025 12:44	62105	ELAN_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
2/19/2025 12:44	62106	ELAN_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/19/2025 12:55	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 12:56	60201	ATGL_T2	12	58	46	0.34	0.25	-0.09	0	0	0	0	0	0	0	0
2/19/2025 12:57	60201	ATGL_T2	12	58	46	0.34	0.25	-0.09	0.29	0.1	0	0	0	0	0	0
2/19/2025 12:58	44801	EDAN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/19/2025 12:58	44802	EDAN_T2	1	1	0	0.9	0.1	-0.8	-2.11	-2.12	0	0	0	0	0	0
2/19/2025 12:58	40201	BEGA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 12:58	60201	ATGL_T2	12	58	46	0.34	0.25	-0.09	0	0	0	0	0	0	0	0
2/19/2025 12:59	26604	BROO_T2	3	4	1	1.43	5.7	4.27	0	0	0	0	0	0	0	0
2/19/2025 12:59	26602	BROO_T2	5	5	0	0.68	0.73	0.05	0	0	0	0	0	0	0	0
2/19/2025 13:01	41204	KENM_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
2/19/2025 13:01	41202	KENM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 13:02	45003	LIME_2	18	4	-14	0.62	3.2	2.58	1.09	1.24	0	0	0	0	0	0
2/19/2025 13:02	45001	LIME_2	7	14	7	0.6	0.28	-0.32	0	0	0	0	0	0	0	0
2/19/2025 13:02	45002	LIME_2	1	1	0	3.7	4.5	0.8	0	0	0	0	0	0	0	0
2/19/2025 13:02	47901	HRDG_T1	0	0	0	0	0	0	2.42	2.11	0	0	0	0	0	0
2/19/2025 13:03	67402	WAKE_T2	0	0	0	0	0	0	0.62	0.57	1	1	0	600	600	0
2/19/2025 13:03	45002	LIME_2	1	1	0	3.7	4.5	0.8	0	0	0	0	0	0	0	0
2/19/2025 13:03	45001	LIME_2	7	14	7	0.6	0.28	-0.32	0	0	0	0	0	0	0	0
2/19/2025 13:03	45003	LIME_2	18	4	-14	0.62	3.2	2.58	0.54	0.62	0	0	0	0	0	0
2/19/2025 13:08	55001	NEWP_T1	6	5	-1	0.42	0.72	0.3	-0.17	-0.17	0	0	0	0	0	0
2/19/2025 13:08	55001	NEWP_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
2/19/2025 13:10	62105	ELAN_T1	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
2/19/2025 13:12	40501	CRES_T2	6	4	-2	0.35	0.5	0.15	0	0	0	0	0	0	0	0
2/19/2025 13:12	40201	BEGA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/19/2025 13:14	58401	MORO_T1	0	0	0	0	0	0	-1.75	-1.66	2	2	0	1200	1200	0
2/19/2025 13:14	40501	CRES_T2	6	4	-2	0.35	0.5	0.15	0	0	0	0	0	0	0	0
2/19/2025 13:14	24703	FLND_T2	15	3	-12	0.45	0.1	-0.35	0	0	0	0	0	0	0	0
2/19/2025 13:14	24702	FLND_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 13:14	24701	FLND_T2	47	41	-6	0.81	0.39	-0.42	-0.76	-0.74	0	0	0	0	0	0
2/19/2025 13:15	40501	CRES_T2	4	8	4	0.48	0.44	-0.04	0	0	0	0	0	0	0	0
2/19/2025 13:16	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 13:18	45001	LIME_2	10	12	2	0.39	0.14	-0.25	0	0	0	0	0	0	0	0
2/19/2025 13:18	40501	CRES_T2	4	8	4	0.48	0.44	-0.04	0	0	0	0	0	0	0	0
2/19/2025 13:18	47901	HRDG_T1	0	0	0	0	0	0	2.11	2.13	0	0	0	0	0	0
2/19/2025 13:18	45003	LIME_2	4	2	-2	1.98	2.5	0.52	1.24	1.17	0	0	0	0	0	0
2/19/2025 13:18	45002	LIME_2	1	1	0	4.5	4	-0.5	0	0	0	0	0	0	0	0
2/19/2025 13:19	45003	LIME_2	4	2	-2	1.98	2.5	0.52	0	0	0	0	0	0	0	0
2/19/2025 13:19	45001	LIME_2	10	12	2	0.39	0.14	-0.25	0	0	0	0	0	0	0	0
2/19/2025 13:19	45002	LIME_2	1	1	0	4.5	4	-0.5	0	0	0	0	0	0	0	0
2/19/2025 13:22	24204	PROV_T3	1	1	0	6	5.6	-0.4	0	0	0	0	0	0	0	0
2/19/2025 13:22	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 13:22	67001	STHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/19/2025 13:22	24201	PROV_T3	5	6	1	3.92	3.38	-0.54	-1.36	-1.37	1	1	0	1200	1200	0
2/19/2025 13:23	24201	PROV_T3	5	6	1	3.92	3.38	-0.54	-1.36	-1.37	1	1	0	1200	1200	0
2/19/2025 13:23	24204	PROV_T3	1	1	0	6	5.6	-0.4	0	0	0	0	0	0	0	0
2/19/2025 13:25	67002	STHI_T2	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
2/19/2025 13:25	67001	STHI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/19/2025 13:26	26604	BROO_T2	3	3	0	4.57	2.8	-1.77	0	0	0	0	0	0	0	0
2/19/2025 13:26	26602	BROO_T2	3	0	-3	0.73	0	-0.73	0	0	0	0	0	0	0	0
2/19/2025 13:27	40201	BEGA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/19/2025 13:28	52402	GRPA_T2	39	59	20	0.57	0.67	0.1	0	0	0	0	0	0	0	0
2/19/2025 13:28	52403	GRPA_T2	4	9	5	1.3	0.93	-0.37	-0.84	-0.76	0	0	0	0	0	0
2/19/2025 13:29	47901	HRDG_T1	0	0	0	0	0	0	2.13	2.1	0	0	0	0	0	0
2/19/2025 13:30	40501	CRES_T2	4	8	4	0.4	0.41	0.01	0	0	0	0	0	0	0	0
2/19/2025 13:32	40501	CRES_T2	4	8	4	0.4	0.41	0.01	0	0	0	0	0	0	0	0
2/19/2025 13:32	10401	LIGA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 13:33	40501	CRES_T2	4	8	4	0.4	0.41	0.01	0	0	0	0	0	0	0	0
2/19/2025 13:35	65602	QVIL_T2	7	4	-3	0.26	0.33	0.07	0	0	0	0	0	0	0	0
2/19/2025 13:35	65601	QVIL_T2	83	66	-17	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
2/19/2025 13:35	65604	QVIL_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
2/19/2025 13:35	65603	QVIL_T2	2	1	-1	0.15	0.1	-0.05	0.73	0.76	0	0	0	0	0	0
2/19/2025 13:37	40501	CRES_T2	4	8	4	0.4	0.41	0.01	0	0	0	0	0	0	0	0
2/19/2025 13:38	14401	SSLA_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/19/2025 13:38	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 13:38	14403	SSLA_T1	0	0	0	0	0	0	0.84	0.8	0	0	0	0	0	0
2/19/2025 13:40	14401	SSLA_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/19/2025 13:40	14402	SSLA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 13:40	14403	SSLA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 13:44	20603	GRWO_T2	29	30	1	0.58	0.14	-0.44	0	0	0	0	0	0	0	0
2/19/2025 13:44	20602	GRWO_T2	11	9	-2	0.41	0.29	-0.12	0	0	0	0	0	0	0	0
2/19/2025 13:44	20601	GRWO_T2	2	2	0	1.05	0.9	-0.15	0.24	0.32	0	0	0	0	0	0
2/19/2025 13:46	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/19/2025 13:46	54502	ENOL_T2	0	0	0	0	0	0	-1.95	-1.96	1	1	0	600	600	0
2/19/2025 13:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 13:48	53901	HALI_T2	0	0	0	0	0	0	-1.29	-1.32	0	0	0	0	0	0
2/19/2025 13:48	53902	HALI_T2	1	1	0	4.1	4.5	0.4	0	0	0	0	0	0	0	0
2/19/2025 13:56	14801	TREI_T2	0	2	2	0	0.5	0.5	0.66	0.63	0	0	0	0	0	0
2/19/2025 13:57	41601	CLEV_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/19/2025 13:57	41602	CLEV_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 13:58	14801	TREI_T2	0	2	2	0	0.5	0.5	0.66	0.63	0	0	0	0	0	0
2/19/2025 13:59	41602	CLEV_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 13:59	41601	CLEV_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/19/2025 14:00	41602	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 14:00	41601	CLEV_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
2/19/2025 14:01	66303	MCGO_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/19/2025 14:01	45001	LIME_2	1	96	95	0.7	0.24	-0.46	0	0	0	0	0	0	0	0
2/19/2025 14:01	66302	MCGO_T2	0	0	0	0	0	0	-2.06	-2.41	2	2	0	1200	1200	0
2/19/2025 14:01	45003	LIME_2	2	2	0	2.05	2.35	0.3	0.54	0.53	0	0	0	0	0	0
2/19/2025 14:01	45002	LIME_2	1	1	0	4.5	5.6	1.1	0.65	0.66	0	0	0	0	0	0
2/19/2025 14:02	45001	LIME_2	1	96	95	0.7	0.24	-0.46	0	0	0	0	0	0	0	0
2/19/2025 14:02	66303	MCGO_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/19/2025 14:02	66302	MCGO_T2	0	0	0	0	0	0	-1.03	-1.21	1	1	0	600	600	0
2/19/2025 14:02	45003	LIME_2	2	2	0	2.05	2.35	0.3	0	0	0	0	0	0	0	0
2/19/2025 14:02	45002	LIME_2	1	1	0	4.5	5.6	1.1	0	0	0	0	0	0	0	0
2/19/2025 14:03	50506	MECH_T1	0	0	0	0	0	0	-0.05	-0.1	0	0	0	0	0	0
2/19/2025 14:03	42301	MOWR_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/19/2025 14:03	50502	MECH_T1	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
2/19/2025 14:03	50501	MECH_T1	4	4	0	0.25	0.58	0.33	0	0	0	0	0	0	0	0
2/19/2025 14:03	42302	MOWR_T2	20	34	14	0.15	0.32	0.17	-0.84	-0.76	0	0	0	0	0	0
2/19/2025 14:04	42302	MOWR_T2	20	34	14	0.15	0.32	0.17	-0.42	-0.38	0	0	0	0	0	0
2/19/2025 14:04	42301	MOWR_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/19/2025 14:05	45003	LIME_2	2	2	0	2.05	2.35	0.3	0	0	0	0	0	0	0	0
2/19/2025 14:05	50501	MECH_T1	4	4	0	0.25	0.58	0.33	0	0	0	0	0	0	0	0
2/19/2025 14:05	50502	MECH_T1	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
2/19/2025 14:05	45001	LIME_2	1	96	95	0.7	0.24	-0.46	0	0	0	0	0	0	0	0
2/19/2025 14:05	45002	LIME_2	1	1	0	4.5	5.6	1.1	0	0	0	0	0	0	0	0
2/19/2025 14:05	50506	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 14:06	66302	MCGO_T2	0	0	0	0	0	0	-1.21	-0.79	1	1	0	600	600	0
2/19/2025 14:06	42302	MOWR_T2	20	34	14	0.15	0.32	0.17	-0.38	-0.42	0	0	0	0	0	0
2/19/2025 14:06	42202	SHEN_T2	2	2	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 14:06	45002	LIME_2	1	1	0	4.5	5.6	1.1	0	0	0	0	0	0	0	0
2/19/2025 14:06	45003	LIME_2	2	2	0	2.05	2.35	0.3	0.53	0.53	0	0	0	0	0	0
2/19/2025 14:06	42201	SHEN_T2	0	0	0	0	0	0	0.23	0.22	1	1	0	600	600	0
2/19/2025 14:06	45001	LIME_2	1	96	95	0.7	0.24	-0.46	0	0	0	0	0	0	0	0
2/19/2025 14:06	66303	MCGO_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/19/2025 14:06	42301	MOWR_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/19/2025 14:07	51201	MTON_T1	1	3	2	2.1	1.1	-1	0.15	0.18	0	0	0	0	0	0
2/19/2025 14:07	42302	MOWR_T2	20	34	14	0.15	0.32	0.17	-0.38	-0.42	0	0	0	0	0	0
2/19/2025 14:07	42301	MOWR_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/19/2025 14:10	41602	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 14:10	41601	CLEV_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
2/19/2025 14:10	60301	TWVA_T2	0	0	0	0	0	0	-6.07	-6.1	4	4	0	3600	3600	0
2/19/2025 14:11	41602	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 14:11	41601	CLEV_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
2/19/2025 14:12	41602	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 14:12	46002	BERW_T2	0	0	0	0	0	0	-0.42	-0.51	1	1	0	900	900	0
2/19/2025 14:12	41601	CLEV_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
2/19/2025 14:14	10805	CHHI_T2	1	1	0	7.8	7.6	-0.2	-1.07	-1.1	1	1	0	600	600	0
2/19/2025 14:15	54504	ENOL_T2	0	0	0	0	0	0	-0.99	-0.96	1	1	0	600	600	0
2/19/2025 14:15	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 14:15	54505	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/19/2025 14:18	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 14:18	54502	ENOL_T2	0	0	0	0	0	0	-1.96	-1.98	1	1	0	600	600	0
2/19/2025 14:18	54505	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/19/2025 14:21	51201	MTON_T1	2	2	0	1.1	2.1	1	0	0	0	0	0	0	0	0
2/19/2025 14:21	42201	SHEN_T2	0	0	0	0	0	0	0.22	0.24	1	1	0	600	600	0
2/19/2025 14:21	65205	PRIN_T1	1	3	2	0.7	1.1	0.4	0	0	0	0	0	0	0	0
2/19/2025 14:21	42202	SHEN_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/19/2025 14:22	57101	SPHI_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
2/19/2025 14:22	57106	SPHI_T2	3	4	1	1.6	1.6	0	0	0	0	0	0	0	0	0
2/19/2025 14:22	57104	SPHI_T2	1	2	1	2.4	2.75	0.35	0	0	0	0	0	0	0	0
2/19/2025 14:22	57103	SPHI_T2	0	0	0	0	0	0	-0.83	-0.83	1	1	0	600	600	0
2/19/2025 14:23	57103	SPHI_T2	0	0	0	0	0	0	-0.83	-0.83	1	1	0	600	600	0
2/19/2025 14:23	51201	MTON_T1	2	2	0	1.1	2.1	1	0.18	0.19	0	0	0	0	0	0
2/19/2025 14:23	57101	SPHI_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
2/19/2025 14:23	57106	SPHI_T2	3	4	1	1.6	1.6	0	0	0	0	0	0	0	0	0
2/19/2025 14:23	57104	SPHI_T2	1	2	1	2.4	2.75	0.35	0	0	0	0	0	0	0	0
2/19/2025 14:24	57104	SPHI_T2	1	2	1	2.4	2.75	0.35	-1.67	-1.72	1	1	0	900	900	0
2/19/2025 14:24	57106	SPHI_T2	3	4	1	1.6	1.6	0	0	0	0	0	0	0	0	0
2/19/2025 14:24	57101	SPHI_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
2/19/2025 14:27	57106	SPHI_T2	3	4	1	1.6	1.6	0	0	0	0	0	0	0	0	0
2/19/2025 14:27	57101	SPHI_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
2/19/2025 14:27	57103	SPHI_T2	0	0	0	0	0	0	-0.83	-0.83	1	1	0	600	600	0
2/19/2025 14:27	57104	SPHI_T2	1	2	1	2.4	2.75	0.35	0	0	0	0	0	0	0	0
2/19/2025 14:27	44301	BEAV_T2	0	0	0	0	0	0	0.41	0.25	1	1	0	600	600	0
2/19/2025 14:27	44302	BEAV_T2	0	4	4	0	0.17	0.17	0	0	0	0	0	0	0	0
2/19/2025 14:29	52401	GRPA_T2	0	1	1	0	1.6	1.6	-1.06	-1.08	0	0	0	0	0	0
2/19/2025 14:29	52403	GRPA_T2	4	3	-1	0.98	2.1	1.12	0	0	0	0	0	0	0	0
2/19/2025 14:29	52402	GRPA_T2	33	29	-4	0.73	0.55	-0.18	0	0	0	0	0	0	0	0
2/19/2025 14:29	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 14:31	45802	HEGI_T2	8	11	3	0.5	0.33	-0.17	1.07	1.17	0	0	0	0	0	0
2/19/2025 14:33	42302	MOWR_T2	31	38	7	0.28	0.34	0.06	0	0	0	0	0	0	0	0
2/19/2025 14:33	40501	CRES_T2	7	9	2	0.27	0.36	0.09	0	0	0	0	0	0	0	0
2/19/2025 14:33	42301	MOWR_T2	1	0	-1	0.2	0	-0.2	-0.29	-0.3	0	0	0	0	0	0
2/19/2025 14:35	42302	MOWR_T2	31	38	7	0.28	0.34	0.06	0	0	0	0	0	0	0	0
2/19/2025 14:35	42301	MOWR_T2	1	0	-1	0.2	0	-0.2	-0.29	-0.3	0	0	0	0	0	0
2/19/2025 14:36	42301	MOWR_T2	1	0	-1	0.2	0	-0.2	-0.9	-0.9	0	0	0	0	0	0
2/19/2025 14:36	42302	MOWR_T2	31	38	7	0.28	0.34	0.06	0	0	0	0	0	0	0	0
2/19/2025 14:37	42302	MOWR_T2	31	38	7	0.28	0.34	0.06	0	0	0	0	0	0	0	0
2/19/2025 14:37	42301	MOWR_T2	1	0	-1	0.2	0	-0.2	-0.6	-0.6	0	0	0	0	0	0
2/19/2025 14:43	47203	FAXO_T2	0	0	0	0	0	0	-0.33	-0.37	0	0	0	0	0	0
2/19/2025 14:47	45802	HEGI_T2	11	8	-3	0.43	0.28	-0.15	1.17	1.15	0	0	0	0	0	0
2/19/2025 14:48	46802	HEPB_T1	12	13	1	0.31	0.32	0.01	-1.18	-1.15	0	0	0	0	0	0
2/19/2025 14:48	45002	LIME_2	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
2/19/2025 14:48	45003	LIME_2	2	2	0	2.1	2.3	0.2	0.46	0.4	0	0	0	0	0	0
2/19/2025 14:48	45001	LIME_2	108	113	5	0.45	0.56	0.11	0	0	0	0	0	0	0	0
2/19/2025 14:52	13105	NHAM_T2	15	18	3	0.45	0.69	0.24	0	0	0	0	0	0	0	0
2/19/2025 14:52	65205	PRIN_T1	3	1	-2	1.3	0.6	-0.7	0	0	0	0	0	0	0	0
2/19/2025 14:52	13103	NHAM_T2	0	0	0	0	0	0	-1.61	-1.62	1	1	0	600	600	0
2/19/2025 15:00	52402	GRPA_T2	37	25	-12	0.59	0.4	-0.19	0	0	0	0	0	0	0	0
2/19/2025 15:00	52401	GRPA_T2	1	1	0	0.3	0.3	0	-1.1	-1.06	0	0	0	0	0	0
2/19/2025 15:00	52403	GRPA_T2	3	6	3	1.23	1.15	-0.08	0	0	0	0	0	0	0	0
2/19/2025 15:00	40101	HUNT_T2	14	28	14	1.2	1.4	0.2	-1.04	-0.93	0	0	0	0	0	0
2/19/2025 15:00	14204	EALL_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
2/19/2025 15:02	52401	GRPA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/19/2025 15:02	52403	GRPA_T2	3	6	3	1.23	1.15	-0.08	-0.44	-0.4	0	0	0	0	0	0
2/19/2025 15:02	52402	GRPA_T2	37	25	-12	0.59	0.4	-0.19	0	0	0	0	0	0	0	0
2/19/2025 15:03	17802	GILB_T1	1	1	0	0.1	0.1	0	0.38	0.39	0	0	0	0	0	0
2/19/2025 15:04	45002	LIME_2	1	1	0	5.7	5.9	0.2	0	0	0	0	0	0	0	0
2/19/2025 15:04	45003	LIME_2	2	2	0	2.6	2.1	-0.5	0.4	0.4	0	0	0	0	0	0
2/19/2025 15:04	45001	LIME_2	104	111	7	0.48	0.54	0.06	0	0	0	0	0	0	0	0
2/19/2025 15:04	40101	HUNT_T2	14	28	14	1.2	1.4	0.2	-1.04	-0.93	0	0	0	0	0	0
2/19/2025 15:05	58201	NEWV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 15:05	58202	NEWV_T1	2	0	-2	0.25	0	-0.25	0.12	0.21	0	0	0	0	0	0
2/19/2025 15:06	58201	NEWV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 15:06	42302	MOWR_T2	36	43	7	0.28	0.35	0.07	0	0	0	0	0	0	0	0
2/19/2025 15:06	58202	NEWV_T1	2	0	-2	0.25	0	-0.25	0.12	0.21	0	0	0	0	0	0
2/19/2025 15:06	42301	MOWR_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
2/19/2025 15:07	60501	NMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/19/2025 15:07	60502	NMAN_T2	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
2/19/2025 15:08	60501	NMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/19/2025 15:08	60502	NMAN_T2	0	0	0	0	0	0	-0.27	-0.3	0	0	0	0	0	0
2/19/2025 15:16	26604	BROO_T2	2	5	3	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
2/19/2025 15:16	26602	BROO_T2	5	5	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
2/19/2025 15:18	63803	HEMP_T1	1	0	-1	2	0	-2	0	0	0	0	0	0	0	0
2/19/2025 15:18	63802	HEMP_T1	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
2/19/2025 15:18	63804	HEMP_T1	1	1	0	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
2/19/2025 15:21	51201	MTON_T1	1	0	-1	1.9	0	-1.9	0.19	0.21	0	0	0	0	0	0
2/19/2025 15:23	43201	MVIL_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
2/19/2025 15:24	13302	ORVI_T2	0	0	0	0	0	0	1.23	1.11	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/19/2025 15:24	55002	NEWP_T1	4	5	1	1.18	0.98	-0.2	-0.15	-0.17	0	0	0	0	0	0
2/19/2025 15:32	15101	UPHA_T1	1	0	-1	0.8	0	-0.8	0.1	0.09	0	0	0	0	0	0
2/19/2025 15:33	43201	MVIL_T2	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
2/19/2025 15:34	51204	MTON_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
2/19/2025 15:35	55002	NEWP_T1	4	5	1	1.08	1.02	-0.06	-0.15	-0.17	0	0	0	0	0	0
2/19/2025 15:35	51204	MTON_T2	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
2/19/2025 15:36	42903	MIDD_T2	2	2	0	0.8	1.05	0.25	0	0	0	0	0	0	0	0
2/19/2025 15:36	57201	ROSS_T1	0	0	0	0	0	0	-0.52	-0.49	0	0	0	0	0	0
2/19/2025 15:36	42902	MIDD_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/19/2025 15:37	57201	ROSS_T1	0	0	0	0	0	0	-0.49	-0.56	0	0	0	0	0	0
2/19/2025 15:37	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 15:38	52502	PROG_T2	0	0	0	0	0	0	-0.33	-0.34	1	1	0	900	900	0
2/19/2025 15:38	57201	ROSS_T1	0	0	0	0	0	0	-0.98	-1.13	0	0	0	0	0	0
2/19/2025 15:39	52502	PROG_T2	0	0	0	0	0	0	-0.33	-0.34	1	1	0	900	900	0
2/19/2025 15:40	52502	PROG_T2	0	0	0	0	0	0	-0.66	-0.68	2	2	0	1800	1800	0
2/19/2025 15:41	57203	ROSS_T1	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
2/19/2025 15:50	40601	PIGR_T1	128	123	-5	0.29	0.25	-0.04	-0.01	0	0	0	0	0	0	0
2/19/2025 15:50	40602	PIGR_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
2/19/2025 15:51	40602	PIGR_T1	0	0	0	0	0	0	0.29	0.33	0	0	0	0	0	0
2/19/2025 15:51	55002	NEWP_T1	5	5	0	0.94	1.18	0.24	-0.17	-0.18	0	0	0	0	0	0
2/19/2025 15:51	40601	PIGR_T1	128	123	-5	0.29	0.25	-0.04	0	0	0	0	0	0	0	0
2/19/2025 15:52	40601	PIGR_T1	128	123	-5	0.29	0.25	-0.04	0	0.08	0	0	0	0	0	0
2/19/2025 15:54	40601	PIGR_T1	128	123	-5	0.29	0.25	-0.04	0	0	0	0	0	0	0	0
2/19/2025 15:55	40601	PIGR_T1	128	123	-5	0.29	0.25	-0.04	0	0	0	0	0	0	0	0
2/19/2025 15:57	40801	EXCH_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
2/19/2025 15:57	40802	EXCH_T2	2	5	3	0.2	0.12	-0.08	-0.82	-0.84	0	0	0	0	0	0
2/19/2025 15:59	40802	EXCH_T2	2	5	3	0.2	0.12	-0.08	-1.64	-1.68	0	0	0	0	0	0
2/19/2025 15:59	40801	EXCH_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
2/19/2025 16:23	67903	WNHO_T1	0	0	0	0	0	0	1.3	1.19	1	1	0	1200	1200	0
2/19/2025 16:25	67901	WNHO_T2	0	2	2	0	0.1	0.1	-0.1	-0.17	1	1	0	900	900	0
2/19/2025 16:26	67904	WNHO_T1	0	0	0	0	0	0	-2.1	-1.1	2	1	-1	2100	1200	-900
2/19/2025 16:27	57402	SPAN_T2	0	2	2	0	0.1	0.1	-0.53	-0.52	0	0	0	0	0	0
2/19/2025 16:27	66901	SHIL_T2	0	0	0	0	0	0	-1.28	-1.28	1	1	0	1200	1200	0
2/19/2025 16:31	40101	HUNT_T2	13	25	12	1.22	1.04	-0.18	-1.31	-1.3	0	0	0	0	0	0
2/19/2025 16:32	12001	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 16:32	12006	HATF_T1	2	2	0	0.95	0.7	-0.25	0.77	0.64	1	1	0	1200	1200	0
2/19/2025 16:33	50506	MECH_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
2/19/2025 16:33	50502	MECH_T1	1	1	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
2/19/2025 16:33	50501	MECH_T1	4	4	0	0.78	1.08	0.3	0	0	0	0	0	0	0	0
2/19/2025 16:36	15404	WALL_T1	0	0	0	0	0	0	-1.59	-1.56	0	0	0	0	0	0
2/19/2025 16:36	59003	MIFF_T1	0	1	1	0	0.1	0.1	0.01	-0.31	0	0	0	0	0	0
2/19/2025 16:37	50501	MECH_T1	4	4	0	0.78	1.08	0.3	0	0	0	0	0	0	0	0
2/19/2025 16:37	50502	MECH_T1	1	1	0	1.5	1.7	0.2	0	0	0	0	0	0	0	0
2/19/2025 16:37	57403	SPAN_T1	4	10	6	0.13	0.25	0.12	0.24	0.24	0	0	0	0	0	0
2/19/2025 16:37	50506	MECH_T1	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
2/19/2025 16:37	57401	SPAN_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/19/2025 16:42	57402	SPAN_T2	0	2	2	0	0.1	0.1	-0.52	-0.51	0	0	0	0	0	0
2/19/2025 16:43	57402	SPAN_T2	0	2	2	0	0.1	0.1	-0.52	-0.51	0	0	0	0	0	0
2/19/2025 16:50	64101	REFR_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
2/19/2025 16:52	52502	PROG_T2	0	0	0	0	0	0	-0.38	-0.33	1	1	0	900	900	0
2/19/2025 16:53	52502	PROG_T2	0	0	0	0	0	0	-0.38	-0.33	1	1	0	900	900	0
2/19/2025 16:53	55001	NEWP_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/19/2025 16:53	55002	NEWP_T1	5	2	-3	0.64	0.15	-0.49	-0.17	-0.16	0	0	0	0	0	0
2/19/2025 16:54	52502	PROG_T2	0	0	0	0	0	0	-0.76	-0.66	2	2	0	1800	1800	0
2/19/2025 16:54	50701	SMEC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 16:55	52502	PROG_T2	0	0	0	0	0	0	-1.9	-1.65	5	5	0	4500	4500	0
2/19/2025 16:56	52502	PROG_T2	0	0	0	0	0	0	-1.14	-0.99	3	3	0	2700	2700	0
2/19/2025 16:59	53502	EVIL_T2	10	0	-10	0.8	0	-0.8	0.08	0.08	1	1	0	600	600	0
2/19/2025 16:59	53501	EVIL_T2	3	2	-1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/19/2025 17:05	45001	LIME_2	6	13	7	0.28	0.33	0.05	0	0	0	0	0	0	0	0
2/19/2025 17:05	45002	LIME_2	1	1	0	4.3	4.2	-0.1	0	0	0	0	0	0	0	0
2/19/2025 17:05	45003	LIME_2	2	35	33	1.15	0.56	-0.59	0.39	0.4	0	0	0	0	0	0
2/19/2025 17:11	42504	ALTA_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
2/19/2025 17:11	42503	ALTA_T2	8	8	0	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
2/19/2025 17:11	42501	ALTA_T2	11	13	2	0.13	0.12	-0.01	0.07	0.1	1	1	0	600	600	0
2/19/2025 17:12	24105	EHAZ_T1	24	16	-8	2.1	2.37	0.27	0	0	0	0	0	0	0	0
2/19/2025 17:12	24102	EHAZ_T1	8	26	18	0.7	0.33	-0.37	-0.27	-0.31	0	0	0	0	0	0
2/19/2025 17:12	24103	EHAZ_T1	18	17	-1	0.95	0.59	-0.36	0	0	0	0	0	0	0	0
2/19/2025 17:12	24101	EHAZ_T1	32	37	5	1.74	1.91	0.17	0	0	0	0	0	0	0	0
2/19/2025 17:13	42501	ALTA_T2	11	13	2	0.13	0.12	-0.01	0.07	0.1	1	1	0	600	600	0
2/19/2025 17:13	42503	ALTA_T2	8	8	0	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
2/19/2025 17:13	42504	ALTA_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
2/19/2025 17:19	50502	MECH_T1	1	1	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
2/19/2025 17:19	50506	MECH_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
2/19/2025 17:19	50501	MECH_T1	4	4	0	0.65	0.73	0.08	0	0	0	0	0	0	0	0
2/19/2025 17:21	54502	ENOL_T2	0	0	0	0	0	0	-1.93	-1.92	1	1	0	600	600	0
2/19/2025 17:21	40101	HUNT_T2	40	67	27	0.73	0.76	0.03	-1.31	-1.29	0	0	0	0	0	0
2/19/2025 17:26	66903	SHIL_T2	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
2/19/2025 18:01	52402	GRPA_T2	23	35	12	0.6	0.54	-0.06	0	0	0	0	0	0	0	0
2/19/2025 18:01	52401	GRPA_T2	2	4	2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 18:01	52403	GRPA_T2	4	9	5	0.4	0.58	0.18	-1.08	-1.05	0	0	0	0	0	0
2/19/2025 18:22	57401	SPAN_T1	0	0	0	0	0	0	-0.72	-0.4	1	1	0	600	600	0
2/19/2025 18:22	57403	SPAN_T1	2	2	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
2/19/2025 18:32	16505	STRO_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 18:32	16504	STRO_T1	0	0	0	0	0	0	-0.56	-0.56	1	1	0	1200	1200	0
2/19/2025 18:39	52502	PROG_T2	0	0	0	0	0	0	-0.3	-0.28	1	1	0	900	900	0
2/19/2025 18:40	52502	PROG_T2	0	0	0	0	0	0	-0.3	-0.28	1	1	0	900	900	0
2/19/2025 19:04	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:04	52401	GRPA_T2	7	3	-4	0.33	0	-0.33	-0.3	-0.32	0	0	0	0	0	0
2/19/2025 19:04	52402	GRPA_T2	28	59	31	0.63	0.62	-0.01	0	0	0	0	0	0	0	0
2/19/2025 19:04	52403	GRPA_T2	7	9	2	0.61	0.67	0.06	0	0	0	0	0	0	0	0
2/19/2025 19:05	65603	QVIL_T2	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
2/19/2025 19:05	65601	QVIL_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/19/2025 19:06	47502	NECO_T1	0	3	3	0	0.43	0.43	3.44	2.62	0	0	0	0	0	0
2/19/2025 19:06	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/19/2025 19:06	44502	HAMI_T2	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
2/19/2025 19:07	52502	PROG_T2	0	0	0	0	0	0	-0.27	-0.29	1	1	0	900	900	0
2/19/2025 19:09	44502	HAMI_T2	1	1	0	2.6	2.6	0	0	0	0	0	0	0	0	0
2/19/2025 19:09	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:10	16102	BING_T2	1	1	0	4.3	5	0.7	0.09	0.07	0	0	0	0	0	0
2/19/2025 19:12	16302	ALPA_T2	0	0	0	0	0	0	2.48	2.31	0	0	0	0	0	0
2/19/2025 19:13	65601	QVIL_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/19/2025 19:16	16302	ALPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:18	16302	ALPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:20	47103	MARL_T2	0	0	0	0	0	0	-1.63	-1.62	0	0	0	0	0	0
2/19/2025 19:20	17803	GILB_T2	2	1	-1	1	0	-1	0	0	0	0	0	0	0	0
2/19/2025 19:20	48602	POCA_T1	0	1	1	0	0	0	1.59	1.59	0	0	0	0	0	0
2/19/2025 19:20	16302	ALPA_T2	0	0	0	0	0	0	0.83	0.77	0	0	0	0	0	0
2/19/2025 19:20	17805	GILB_T2	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
2/19/2025 19:22	42002	MNVL_T2	1	1	0	8.9	9	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:22	42001	MNVL_T2	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
2/19/2025 19:22	46602	LACR_T1	2	6	4	0.2	0.77	0.57	-0.68	-0.69	0	0	0	0	0	0
2/19/2025 19:25	46602	LACR_T1	2	6	4	0.2	0.77	0.57	-0.68	-0.69	0	0	0	0	0	0
2/19/2025 19:26	11507	FREE_T2	321	304	-17	1.29	1.1	-0.19	2.16	2.11	0	0	0	0	0	0
2/19/2025 19:30	52404	GRPA_T2	0	2	2	0	0.3	0.3	-0.16	-0.16	0	0	0	0	0	0
2/19/2025 19:30	52401	GRPA_T2	0	11	11	0	0.15	0.15	0	0	0	0	0	0	0	0
2/19/2025 19:30	52403	GRPA_T2	8	85	77	0.91	0.66	-0.25	0	0	0	0	0	0	0	0
2/19/2025 19:30	52402	GRPA_T2	47	82	35	0.73	0.86	0.13	0	0	0	0	0	0	0	0
2/19/2025 19:31	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	0.03	0.02	0	0	0	0	0	0
2/19/2025 19:33	16902	MECK_T1	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
2/19/2025 19:34	43202	MVIL_T2	0	5	5	0	0.38	0.38	-0.58	-0.57	0	0	0	0	0	0
2/19/2025 19:34	43201	MVIL_T2	2	3	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/19/2025 19:35	43202	MVIL_T2	0	5	5	0	0.38	0.38	-0.58	-0.57	0	0	0	0	0	0
2/19/2025 19:35	43201	MVIL_T2	2	3	1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/19/2025 19:36	16902	MECK_T1	0	0	0	0	0	0	0.64	0.68	0	0	0	0	0	0
2/19/2025 19:36	42901	MIDD_T2	3	3	0	0.63	1	0.37	0	0	0	0	0	0	0	0
2/19/2025 19:36	42902	MIDD_T2	9	17	8	0.74	0.72	-0.02	-0.29	-0.71	0	0	0	0	0	0
2/19/2025 19:38	23401	HONE_T2	4	5	1	0.53	0.15	-0.38	-0.05	-0.04	0	0	0	0	0	0
2/19/2025 19:38	14204	EALL_T2	0	0	0	0	0	0	0.32	0.27	0	0	0	0	0	0
2/19/2025 19:41	24201	PROV_T3	5	5	0	3.56	3.42	-0.14	-2.52	-2.6	2	2	0	2400	2400	0
2/19/2025 19:41	24205	PROV_T3	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 19:41	24204	PROV_T3	2	2	0	2.85	2.95	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:42	10601	BLGL_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/19/2025 19:42	10603	BLGL_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
2/19/2025 19:43	21606	EYNO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:43	21601	EYNO_T1	29	38	9	0.48	0.52	0.04	0	0	0	0	0	0	0	0
2/19/2025 19:44	44801	EDAN_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 19:44	26602	BROO_T2	1	5	4	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:44	26604	BROO_T2	5	11	6	1.28	0.93	-0.35	0	0	0	0	0	0	0	0
2/19/2025 19:44	44802	EDAN_T2	0	0	0	0	0	0	-2.06	-2.07	0	0	0	0	0	0
2/19/2025 19:45	46004	BERW_T2	9	9	0	0.52	0.7	0.18	0	0	0	0	0	0	0	0
2/19/2025 19:45	22601	KIMB_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:45	46002	BERW_T2	0	0	0	0	0	0	-0.97	-0.91	1	1	0	900	900	0
2/19/2025 19:45	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
2/19/2025 19:46	22601	KIMB_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:46	20601	GRWO_T2	5	8	3	0.7	1.06	0.36	0.03	0.03	0	0	0	0	0	0
2/19/2025 19:46	20603	GRWO_T2	22	22	0	0.96	0.31	-0.65	0	0	0	0	0	0	0	0
2/19/2025 19:46	22602	KIMB_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
2/19/2025 19:46	16302	ALPA_T2	0	0	0	0	0	0	0.8	0.76	0	0	0	0	0	0
2/19/2025 19:47	53502	EVIL_T2	0	11	11	0	0.95	0.95	-0.6	-0.58	2	2	0	1200	1200	0
2/19/2025 19:47	42301	MOWR_T2	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
2/19/2025 19:47	40505	CRES_T1	1	1	0	0.1	0	-0.1	0.48	0.46	0	0	0	0	0	0
2/19/2025 19:47	40503	CRES_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:47	42302	MOWR_T2	32	31	-1	0.27	0.29	0.02	0	0	0	0	0	0	0	0
2/19/2025 19:47	53501	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:47	23401	HONE_T2	4	6	2	0.35	0.15	-0.2	-0.05	-0.04	0	0	0	0	0	0
2/19/2025 19:47	29401	BELT_T1	51	51	0	0.35	0.29	-0.06	0	0	1	1	0	900	900	0
2/19/2025 19:47	29402	BELT_T1	3	3	0	3	3.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:48	40602	PIGR_T1	2	1	-1	1.15	0	-1.15	0	0	0	0	0	0	0	0
2/19/2025 19:48	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:48	14802	TREI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/19/2025 19:48	22803	HAUT_T2	108	93	-15	1.18	1.25	0.07	0	0	0	0	0	0	0	0
2/19/2025 19:48	10801	CHHI_T1	4	7	3	0.98	0.6	-0.38	-1.91	-1.88	3	3	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/19/2025 19:48	42302	MOWR_T2	32	31	-1	0.27	0.29	0.02	-0.38	-0.39	0	0	0	0	0	0
2/19/2025 19:48	45001	LIME_2	31	58	27	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
2/19/2025 19:48	44201	POIN_T1	148	153	5	0.46	0.47	0.01	-2.4	-2.43	2	2	0	2100	2100	0
2/19/2025 19:48	14801	TREI_T2	0	0	0	0	0	0	0.87	0.92	0	0	0	0	0	0
2/19/2025 19:48	22805	HAUT_T2	179	193	14	1.32	1.19	-0.13	0	0	0	0	0	0	0	0
2/19/2025 19:48	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:48	14403	SSLA_T1	9	7	-2	0.86	1.15	0.29	0	0	0	0	0	0	0	0
2/19/2025 19:48	45002	LIME_2	1	1	0	3.6	4.2	0.6	0	0	0	0	0	0	0	0
2/19/2025 19:48	14401	SSLA_T1	0	3	3	0	0.77	0.77	0	0	0	0	0	0	0	0
2/19/2025 19:48	16302	ALPA_T2	0	0	0	0	0	0	0.8	0.76	0	0	0	0	0	0
2/19/2025 19:48	45003	LIME_2	57	58	1	0.96	0.78	-0.18	0	0	0	0	0	0	0	0
2/19/2025 19:48	40603	PIGR_T1	2	2	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
2/19/2025 19:48	14402	SSLA_T1	3	2	-1	0.57	0.3	-0.27	0	0	0	0	0	0	0	0
2/19/2025 19:48	40601	PIGR_T1	22	41	19	0.19	0.25	0.06	0	0	0	0	0	0	0	0
2/19/2025 19:49	44802	EDAN_T2	0	0	0	0	0	0	-2.06	-2.07	0	0	0	0	0	0
2/19/2025 19:49	42302	MOWR_T2	32	31	-1	0.27	0.29	0.02	-0.38	-0.39	0	0	0	0	0	0
2/19/2025 19:49	24701	FLND_T2	42	58	16	1.77	1.42	-0.35	-0.67	-0.68	0	0	0	0	0	0
2/19/2025 19:49	24703	FLND_T2	111	46	-65	0.55	0.66	0.11	0	0	0	0	0	0	0	0
2/19/2025 19:49	54201	PENN_T1	3	7	4	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
2/19/2025 19:49	42901	MIDD_T2	3	3	0	1	1.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:49	44801	EDAN_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 19:49	24702	FLND_T2	14	15	1	0.57	0.1	-0.47	0	0	0	0	0	0	0	0
2/19/2025 19:49	54203	PENN_T1	18	18	0	0.38	0.58	0.2	0.01	0.04	1	1	0	600	600	0
2/19/2025 19:49	42902	MIDD_T2	5	29	24	0.72	0.54	-0.18	-0.29	-0.71	0	0	0	0	0	0
2/19/2025 19:50	46203	DANV_T2	201	253	52	0.76	0.75	-0.01	-1.5	-1.5	0	0	0	0	0	0
2/19/2025 19:50	29401	BELT_T1	51	51	0	0.35	0.29	-0.06	0	0	0	0	0	0	0	0
2/19/2025 19:50	44801	EDAN_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 19:50	24102	EHAZ_T1	32	53	21	0.47	1.2	0.73	0	0	0	0	0	0	0	0
2/19/2025 19:50	24204	PROV_T3	2	2	0	2.95	2.9	-0.05	0	0	0	0	0	0	0	0
2/19/2025 19:50	11102	EGYP_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:50	40801	EXCH_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
2/19/2025 19:50	24201	PROV_T3	5	5	0	3.5	3.38	-0.12	-1.26	-1.3	1	1	0	1200	1200	0
2/19/2025 19:50	29402	BELT_T1	3	3	0	3	3.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:50	42301	MOWR_T2	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
2/19/2025 19:50	46204	DANV_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/19/2025 19:50	24105	EHAZ_T1	29	35	6	1.27	1.83	0.56	-1.84	-1.86	1	1	0	1200	1200	0
2/19/2025 19:50	15101	UPHA_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
2/19/2025 19:50	44802	EDAN_T2	0	0	0	0	0	0	-2.06	-2.07	0	0	0	0	0	0
2/19/2025 19:50	24103	EHAZ_T1	2	4	2	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
2/19/2025 19:50	24101	EHAZ_T1	50	57	7	2.04	2.69	0.65	0	0	0	0	0	0	0	0
2/19/2025 19:50	42302	MOWR_T2	32	31	-1	0.27	0.29	0.02	0	0	0	0	0	0	0	0
2/19/2025 19:50	10805	CHHI_T2	7	13	6	2.43	2.83	0.4	-0.78	-0.79	1	1	0	600	600	0
2/19/2025 19:50	25402	LAHA_T2	54	68	14	0.78	0.74	-0.04	-0.41	-0.36	0	0	0	0	0	0
2/19/2025 19:50	44201	POIN_T1	148	153	5	0.46	0.47	0.01	-2.4	-2.43	2	2	0	2100	2100	0
2/19/2025 19:50	40802	EXCH_T2	1	3	2	0.1	0.13	0.03	-0.83	-0.83	0	0	0	0	0	0
2/19/2025 19:50	11104	EGYP_T1	1	2	1	0.4	1.2	0.8	-0.29	-0.3	1	1	0	900	900	0
2/19/2025 19:50	60201	ATGL_T2	0	3	3	0	0.2	0.2	0.24	0.17	0	0	0	0	0	0
2/19/2025 19:50	60701	BREC_T1	5	5	0	0.4	0.4	0	-0.29	-0.3	1	1	0	600	600	0
2/19/2025 19:51	66303	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:51	67002	STHI_T2	34	59	25	0.16	0.18	0.02	0	0	0	0	0	0	0	0
2/19/2025 19:51	60701	BREC_T1	5	5	0	0.4	0.4	0	-0.3	-0.29	1	1	0	600	600	0
2/19/2025 19:51	66901	SHIL_T2	0	0	0	0	0	0	-1.23	-1.27	1	1	0	1200	1200	0
2/19/2025 19:51	64502	LAVI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 19:51	62105	ELAN_T1	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
2/19/2025 19:51	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:51	42302	MOWR_T2	32	31	-1	0.27	0.29	0.02	0	0	0	0	0	0	0	0
2/19/2025 19:51	46206	DANV_T2	0	0	0	0	0	0	1.32	1.27	2	2	0	2100	2100	0
2/19/2025 19:51	45001	LIME_2	31	58	27	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
2/19/2025 19:51	45502	DERR_T2	1	5	4	0.2	0.55	0.35	0	0	0	0	0	0	0	0
2/19/2025 19:51	59101	WALK_T2	0	0	0	0	0	0	0.76	0.77	1	1	0	600	600	0
2/19/2025 19:51	46203	DANV_T2	201	253	52	0.76	0.75	-0.01	0	0	0	0	0	0	0	0
2/19/2025 19:51	45003	LIME_2	57	58	1	0.96	0.78	-0.18	0.53	0.55	0	0	0	0	0	0
2/19/2025 19:51	54504	ENOL_T2	0	0	0	0	0	0	-0.91	-0.92	1	1	0	600	600	0
2/19/2025 19:51	42301	MOWR_T2	0	0	0	0	0	0	-0.31	-0.28	0	0	0	0	0	0
2/19/2025 19:51	45002	LIME_2	1	1	0	3.6	4.2	0.6	0	0	0	0	0	0	0	0
2/19/2025 19:51	45501	DERR_T2	4	8	4	0.58	0	-0.58	0.75	0.77	2	2	0	1800	1800	0
2/19/2025 19:51	56501	ROCK_T2	5	5	0	0.72	0.63	-0.09	0	0	0	0	0	0	0	0
2/19/2025 19:51	64503	LAVI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 19:51	66302	MCGO_T2	0	0	0	0	0	0	-1.29	-1.3	1	1	0	600	600	0
2/19/2025 19:51	67303	WYOM_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
2/19/2025 19:51	64501	LAVI_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
2/19/2025 19:51	67001	STHI_T2	77	133	56	0.12	0.12	0	0	0	0	0	0	0	0	0
2/19/2025 19:51	66903	SHIL_T2	0	0	0	0	0	0	-1.21	-1.22	0	0	0	0	0	0
2/19/2025 19:51	44502	HAMI_T2	1	2	1	2.4	2.5	0.1	0.03	0.03	0	0	0	0	0	0
2/19/2025 19:51	46204	DANV_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/19/2025 19:51	61506	EPET_T2	0	0	0	0	0	0	-1	-1.04	1	1	0	900	900	0
2/19/2025 19:51	56504	ROCK_T2	0	0	0	0	0	0	-0.1	-0.07	0	0	0	0	0	0
2/19/2025 19:52	60301	TWVA_T2	0	3	3	0	0.35	0.35	-4.85	-4.83	2	2	0	2400	2400	0
2/19/2025 19:52	11102	EGYP_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:52	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
2/19/2025 19:52	40101	HUNT_T2	15	19	4	1.53	1.81	0.28	-1.91	-1.93	0	0	0	0	0	0
2/19/2025 19:52	40602	PIGR_T1	2	1	-1	1.15	0	-1.15	0	0	0	0	0	0	0	0
2/19/2025 19:52	55002	NEWP_T1	3	4	1	0.63	0.73	0.1	-0.12	-0.12	0	0	0	0	0	0
2/19/2025 19:52	13103	NHAM_T2	0	3	3	0	0.47	0.47	-1.51	-1.5	1	1	0	600	600	0
2/19/2025 19:52	63802	HEMP_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
2/19/2025 19:52	42301	MOWR_T2	0	0	0	0	0	0	-0.62	-0.56	0	0	0	0	0	0
2/19/2025 19:52	44502	HAMI_T2	1	2	1	2.4	2.5	0.1	0.03	0.03	0	0	0	0	0	0
2/19/2025 19:52	55101	WERT_T1	0	0	0	0	0	0	-1.72	-1.71	2	2	0	1500	1500	0
2/19/2025 19:52	17102	WTRE_T2	0	0	0	0	0	0	-1.14	-1.23	4	4	0	4800	4800	0
2/19/2025 19:52	15404	WALL_T1	0	0	0	0	0	0	-1.52	-1.53	0	0	0	0	0	0
2/19/2025 19:52	40201	BEGA_T2	46	3	-43	0.62	0.3	-0.32	0	0	0	0	0	0	0	0
2/19/2025 19:52	14801	TREI_T2	0	0	0	0	0	0	0.92	0.84	0	0	0	0	0	0
2/19/2025 19:52	14802	TREI_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/19/2025 19:52	52502	PROG_T2	0	0	0	0	0	0	-0.27	-0.25	1	1	0	900	900	0
2/19/2025 19:52	40603	PIGR_T1	2	2	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
2/19/2025 19:52	57401	SPAN_T1	0	0	0	0	0	0	-1.06	-1.09	1	1	0	600	600	0
2/19/2025 19:52	60701	BREC_T1	5	5	0	0.4	0.4	0	-0.6	-0.58	2	2	0	1200	1200	0
2/19/2025 19:52	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:52	13105	NHAM_T2	26	25	-1	1.99	1.82	-0.17	0	0	0	0	0	0	0	0
2/19/2025 19:52	17101	WTRE_T2	2	2	0	6.75	6.2	-0.55	0	0	0	0	0	0	0	0
2/19/2025 19:52	45502	DERR_T2	1	5	4	0.2	0.55	0.35	0	0	0	0	0	0	0	0
2/19/2025 19:52	40601	PIGR_T1	22	41	19	0.19	0.25	0.06	0	0	0	0	0	0	0	0
2/19/2025 19:52	53902	HALI_T2	2	2	0	2.1	4	1.9	0	0	0	0	0	0	0	0
2/19/2025 19:52	42302	MOWR_T2	32	31	-1	0.27	0.29	0.02	-0.39	-0.38	0	0	0	0	0	0
2/19/2025 19:52	66901	SHIL_T2	0	0	0	0	0	0	-1.23	-1.27	1	1	0	1200	1200	0
2/19/2025 19:52	13302	ORVI_T2	0	0	0	0	0	0	1.24	1.24	0	0	0	0	0	0
2/19/2025 19:52	11104	EGYP_T1	1	2	1	0.4	1.2	0.8	-0.3	-0.31	1	1	0	900	900	0
2/19/2025 19:52	53901	HALI_T2	0	0	0	0	0	0	-1.29	-1.26	0	0	0	0	0	0
2/19/2025 19:52	45501	DERR_T2	4	8	4	0.58	0	-0.58	1.5	1.54	4	4	0	3600	3600	0
2/19/2025 19:53	24103	EHAZ_T1	2	4	2	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
2/19/2025 19:53	65601	QVIL_T2	0	10	10	0	0.11	0.11	0	0	0	0	0	0	0	0
2/19/2025 19:53	44302	BEAV_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 19:53	60701	BREC_T1	5	5	0	0.4	0.4	0	-0.3	-0.29	1	1	0	600	600	0
2/19/2025 19:53	57106	SPHI_T2	3	3	0	1.1	1.17	0.07	0	0	0	0	0	0	0	0
2/19/2025 19:53	53901	HALI_T2	0	0	0	0	0	0	-1.29	-1.26	0	0	0	0	0	0
2/19/2025 19:53	53902	HALI_T2	2	2	0	2.1	4	1.9	0	0	0	0	0	0	0	0
2/19/2025 19:53	24101	EHAZ_T1	50	57	7	2.04	2.69	0.65	0	0	0	0	0	0	0	0
2/19/2025 19:53	65603	QVIL_T2	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
2/19/2025 19:53	52502	PROG_T2	0	0	0	0	0	0	-0.27	-0.25	1	1	0	900	900	0
2/19/2025 19:53	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:53	24102	EHAZ_T1	32	53	21	0.47	1.2	0.73	0	0	0	0	0	0	0	0
2/19/2025 19:53	42901	MIDD_T2	3	3	0	1	1.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:53	67903	WNHO_T1	0	0	0	0	0	0	1.18	1.14	1	1	0	1200	1200	0
2/19/2025 19:53	53502	EVIL_T2	0	11	11	0	0.95	0.95	0	0	0	0	0	0	0	0
2/19/2025 19:53	42302	MOWR_T2	32	31	-1	0.27	0.29	0.02	0	0	0	0	0	0	0	0
2/19/2025 19:53	60501	NMAN_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
2/19/2025 19:53	44301	BEAV_T2	19	18	-1	0.73	0.61	-0.12	0.72	0.73	1	1	0	600	600	0
2/19/2025 19:53	42902	MIDD_T2	5	29	24	0.72	0.54	-0.18	-0.71	-0.89	0	1	1	0	600	600
2/19/2025 19:53	24104	EHAZ_T1	0	0	0	0	0	0	-0.82	-0.82	0	0	0	0	0	0
2/19/2025 19:53	24105	EHAZ_T1	29	35	6	1.27	1.83	0.56	0	0	0	0	0	0	0	0
2/19/2025 19:53	60801	BUCK_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
2/19/2025 19:53	57104	SPHI_T2	1	1	0	2.2	2	-0.2	0	0	0	0	0	0	0	0
2/19/2025 19:53	47901	HRDG_T1	0	0	0	0	0	0	1.81	1.71	0	0	0	0	0	0
2/19/2025 19:53	67002	STHI_T2	34	59	25	0.16	0.18	0.02	0.68	0.67	0	0	0	0	0	0
2/19/2025 19:53	42301	MOWR_T2	0	0	0	0	0	0	-0.31	-0.28	0	0	0	0	0	0
2/19/2025 19:53	57103	SPHI_T2	0	0	0	0	0	0	-0.76	-0.73	1	1	0	600	600	0
2/19/2025 19:53	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:53	44502	HAMI_T2	1	2	1	2.4	2.5	0.1	0.03	0.03	0	0	0	0	0	0
2/19/2025 19:53	46802	HEPB_T1	1	1	0	0.9	1.3	0.4	-1.01	-1.04	0	0	0	0	0	0
2/19/2025 19:53	41801	GOO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:53	67001	STHI_T2	77	133	56	0.12	0.12	0	0	0	0	0	0	0	0	0
2/19/2025 19:53	53501	EVIL_T2	0	1	1	0	0.1	0.1	-1.29	-1.26	2	2	0	1200	1200	0
2/19/2025 19:54	40501	CRES_T2	8	13	5	0.23	0.23	0	0	0	0	0	0	0	0	0
2/19/2025 19:54	60201	ATGL_T2	0	3	3	0	0.2	0.2	0.17	0.21	0	0	0	0	0	0
2/19/2025 19:54	28403	HART_T2	0	0	0	0	0	0	-0.68	-0.66	1	1	0	900	900	0
2/19/2025 19:54	46204	DANV_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/19/2025 19:54	57402	SPAN_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
2/19/2025 19:54	44801	EDAN_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 19:54	42202	SHEN_T2	5	7	2	0.46	0.44	-0.02	0	0	0	0	0	0	0	0
2/19/2025 19:54	42203	SHEN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 19:54	46203	DANV_T2	201	253	52	0.76	0.75	-0.01	-1.5	-1.49	0	0	0	0	0	0
2/19/2025 19:54	44802	EDAN_T2	0	0	0	0	0	0	-2.07	-2.09	0	0	0	0	0	0
2/19/2025 19:54	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:54	55002	NEWP_T1	3	4	1	0.63	0.73	0.1	-0.12	-0.12	0	0	0	0	0	0
2/19/2025 19:54	40201	BEGA_T2	46	3	-43	0.62	0.3	-0.32	0	0	0	0	0	0	0	0
2/19/2025 19:54	60701	BREC_T1	5	5	0	0.4	0.4	0	-0.3	-0.29	1	1	0	600	600	0
2/19/2025 19:54	64101	REFR_T1	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
2/19/2025 19:54	42201	SHEN_T2	1	2	1	0.5	0	-0.5	0.22	0.19	1	1	0	600	600	0
2/19/2025 19:54	40802	EXCH_T2	1	3	2	0.1	0.13	0.03	-0.83	-0.82	0	0	0	0	0	0
2/19/2025 19:54	10401	LIGA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:54	54203	PENN_T1	18	18	0	0.38	0.58	0.2	0	0	0	0	0	0	0	0
2/19/2025 19:54	44203	POIN_T2	0	0	0	0	0	0	-0.88	-1.04	4	4	0	4200	4200	0
2/19/2025 19:54	60502	NMAN_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/19/2025 19:54	16102	BING_T2	2	2	0	2.3	2.6	0.3	0.08	0.06	0	0	0	0	0	0
2/19/2025 19:54	12006	HATF_T1	3	2	-1	1.17	0.85	-0.32	0.4	0.4	1	1	0	1200	1200	0
2/19/2025 19:54	54201	PENN_T1	3	7	4	0.47	0.4	-0.07	1.58	1.62	0	0	0	0	0	0
2/19/2025 19:54	46206	DANV_T2	0	0	0	0	0	0	1.32	1.27	2	2	0	2100	2100	0
2/19/2025 19:54	44202	POIN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:54	52502	PROG_T2	0	0	0	0	0	0	-0.81	-0.75	3	3	0	2700	2700	0
2/19/2025 19:54	40801	EXCH_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
2/19/2025 19:54	60501	NMAN_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
2/19/2025 19:54	16302	ALPA_T2	0	0	0	0	0	0	0.76	0.81	0	0	0	0	0	0
2/19/2025 19:55	42302	MOWR_T2	32	31	-1	0.27	0.29	0.02	-0.78	-0.76	0	0	0	0	0	0
2/19/2025 19:55	53601	DALM_T2	0	1	1	0	0.4	0.4	-0.93	-0.96	1	1	0	900	900	0
2/19/2025 19:55	20603	GRWO_T2	22	22	0	0.96	0.31	-0.65	0	0	0	0	0	0	0	0
2/19/2025 19:55	64502	LAVI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 19:55	64503	LAVI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 19:55	54201	PENN_T1	3	7	4	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
2/19/2025 19:55	40201	BEGA_T2	46	3	-43	0.62	0.3	-0.32	0	0	0	0	0	0	0	0
2/19/2025 19:55	46204	DANV_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/19/2025 19:55	44802	EDAN_T2	0	0	0	0	0	0	-2.07	-2.09	0	0	0	0	0	0
2/19/2025 19:55	54203	PENN_T1	18	18	0	0.38	0.58	0.2	0.04	0.02	1	1	0	600	600	0
2/19/2025 19:55	57104	SPHI_T2	1	1	0	2.2	2	-0.2	-1.64	-1.66	1	1	0	900	900	0
2/19/2025 19:55	55002	NEWP_T1	3	4	1	0.63	0.73	0.1	-0.12	-0.12	0	0	0	0	0	0
2/19/2025 19:55	57106	SPHI_T2	3	3	0	1.1	1.17	0.07	0	0	0	0	0	0	0	0
2/19/2025 19:55	40101	HUNT_T2	15	19	4	1.53	1.81	0.28	-1.91	-1.93	0	0	0	0	0	0
2/19/2025 19:55	64501	LAVI_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
2/19/2025 19:55	64101	REFR_T1	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
2/19/2025 19:55	57402	SPAN_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
2/19/2025 19:55	20601	GRWO_T2	5	8	3	0.7	1.06	0.36	0.03	0.04	0	0	0	0	0	0
2/19/2025 19:55	42901	MIDD_T2	3	3	0	1	1.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:55	46203	DANV_T2	201	253	52	0.76	0.75	-0.01	-3	-2.99	0	0	0	0	0	0
2/19/2025 19:55	44801	EDAN_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 19:55	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:55	42301	MOWR_T2	0	0	0	0	0	0	-0.31	-0.28	0	0	0	0	0	0
2/19/2025 19:55	42903	MIDD_T2	0	0	0	0	0	0	-1.56	-1.58	1	1	0	1200	1200	0
2/19/2025 19:55	42902	MIDD_T2	5	29	24	0.72	0.54	-0.18	0	0	0	0	0	0	0	0
2/19/2025 19:55	41602	CLEV_T1	4	10	6	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
2/19/2025 19:56	60201	ATGL_T2	0	3	3	0	0.2	0.2	0.17	0.21	0	0	0	0	0	0
2/19/2025 19:56	16103	BING_T2	0	0	0	0	0	0	-2.05	-2	2	2	0	1500	1500	0
2/19/2025 19:56	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:56	60501	NMAN_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
2/19/2025 19:56	44802	EDAN_T2	0	0	0	0	0	0	-2.07	-2.09	0	0	0	0	0	0
2/19/2025 19:56	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:56	53902	HALI_T2	2	2	0	2.1	4	1.9	0	0	0	0	0	0	0	0
2/19/2025 19:56	41602	CLEV_T1	4	10	6	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
2/19/2025 19:56	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:56	57402	SPAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:56	11102	EGYP_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:56	11104	EGYP_T1	1	2	1	0.4	1.2	0.8	-0.3	-0.31	1	1	0	900	900	0
2/19/2025 19:56	53502	EVIL_T2	0	11	11	0	0.95	0.95	0	0	0	0	0	0	0	0
2/19/2025 19:56	50506	MECH_T1	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
2/19/2025 19:56	45502	DERR_T2	1	5	4	0.2	0.55	0.35	0	0	0	0	0	0	0	0
2/19/2025 19:56	40801	EXCH_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
2/19/2025 19:56	42902	MIDD_T2	5	29	24	0.72	0.54	-0.18	-1.41	-1.77	0	2	2	0	1200	1200
2/19/2025 19:56	44801	EDAN_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 19:56	45501	DERR_T2	4	8	4	0.58	0	-0.58	0.75	0.77	2	2	0	1800	1800	0
2/19/2025 19:56	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
2/19/2025 19:56	63802	HEMP_T1	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
2/19/2025 19:56	16102	BING_T2	2	2	0	2.3	2.6	0.3	0	0	0	0	0	0	0	0
2/19/2025 19:56	42901	MIDD_T2	3	3	0	1	1.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:56	42301	MOWR_T2	0	0	0	0	0	0	-0.31	-0.28	0	0	0	0	0	0
2/19/2025 19:56	45003	LIME_2	57	58	1	0.96	0.78	-0.18	1.06	1.09	0	0	0	0	0	0
2/19/2025 19:56	42504	ALTA_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
2/19/2025 19:56	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:56	65601	QVIL_T2	0	10	10	0	0.11	0.11	0	0	0	0	0	0	0	0
2/19/2025 19:56	42503	ALTA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:56	57704	PAXT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:56	53901	HALI_T2	0	0	0	0	0	0	-5.15	-5.04	0	0	0	0	0	0
2/19/2025 19:56	50501	MECH_T1	2	4	2	0.1	0.43	0.33	0	0	0	0	0	0	0	0
2/19/2025 19:56	45002	LIME_2	1	1	0	3.6	4.2	0.6	0	0	0	0	0	0	0	0
2/19/2025 19:56	55002	NEWP_T1	3	4	1	0.63	0.73	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:56	55001	NEWP_T1	0	0	0	0	0	0	-0.79	-0.73	1	1	0	600	600	0
2/19/2025 19:56	40601	PIGR_T1	22	41	19	0.19	0.25	0.06	0	0	0	0	0	0	0	0
2/19/2025 19:56	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:56	65604	QVIL_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
2/19/2025 19:56	43202	MVIL_T2	5	4	-1	0.56	0	-0.56	0	0	0	0	0	0	0	0
2/19/2025 19:56	40501	CRES_T2	8	13	5	0.23	0.23	0	0	0	0	0	0	0	0	0
2/19/2025 19:56	44201	POIN_T1	148	153	5	0.46	0.47	0.01	-2.43	-2.38	2	2	0	2100	2100	0
2/19/2025 19:56	42302	MOWR_T2	32	31	-1	0.27	0.29	0.02	-0.39	-0.38	0	0	0	0	0	0
2/19/2025 19:56	67904	WNHO_T1	0	0	0	0	0	0	-2.14	-2.21	2	2	0	2400	2400	0
2/19/2025 19:56	43201	MVIL_T2	2	1	-1	0.1	0	-0.1	-0.29	-0.29	0	0	0	0	0	0
2/19/2025 19:56	64101	REFR_T1	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
2/19/2025 19:56	45001	LIME_2	31	58	27	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
2/19/2025 19:56	52001	LING_T1	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
2/19/2025 19:56	45701	LIND_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
2/19/2025 19:56	10801	CHHI_T1	4	7	3	0.98	0.6	-0.38	-1.88	-1.9	3	3	0	2100	2100	0
2/19/2025 19:56	53501	EVIL_T2	0	1	1	0	0.1	0.1	-1.29	-1.26	2	2	0	1200	1200	0
2/19/2025 19:56	50502	MECH_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
2/19/2025 19:56	40602	PIGR_T1	2	1	-1	1.15	0	-1.15	0	0	0	0	0	0	0	0
2/19/2025 19:56	42501	ALTA_T2	0	0	0	0	0	0	0.06	0.08	1	1	0	600	600	0
2/19/2025 19:56	40802	EXCH_T2	1	3	2	0.1	0.13	0.03	-0.83	-0.82	0	0	0	0	0	0
2/19/2025 19:56	40603	PIGR_T1	2	2	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
2/19/2025 19:56	57401	SPAN_T1	0	0	0	0	0	0	-1.06	-1.09	1	1	0	600	600	0
2/19/2025 19:57	17802	GILB_T1	2	1	-1	0.3	0	-0.3	0.32	0.32	0	0	0	0	0	0
2/19/2025 19:57	52404	GRPA_T2	1	2	1	0.4	0.3	-0.1	-0.12	-0.18	0	0	0	0	0	0
2/19/2025 19:57	45003	LIME_2	57	58	1	0.96	0.78	-0.18	0.53	0.55	0	0	0	0	0	0
2/19/2025 19:57	50501	MECH_T1	2	4	2	0.1	0.43	0.33	0	0	0	0	0	0	0	0
2/19/2025 19:57	55002	NEWP_T1	3	4	1	0.63	0.73	0.1	-0.12	-0.12	0	0	0	0	0	0
2/19/2025 19:57	50506	MECH_T1	0	0	0	0	0	0	0.04	0.08	0	0	0	0	0	0
2/19/2025 19:57	50502	MECH_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
2/19/2025 19:57	65205	PRIN_T1	1	2	1	1.3	1.5	0.2	0	0	0	0	0	0	0	0
2/19/2025 19:57	47901	HRDG_T1	0	0	0	0	0	0	1.81	1.71	0	0	0	0	0	0
2/19/2025 19:57	44302	BEAV_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 19:57	44801	EDAN_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 19:57	66903	SHIL_T2	0	0	0	0	0	0	-1.21	-1.22	0	0	0	0	0	0
2/19/2025 19:57	52403	GRPA_T2	85	74	-11	0.61	0.68	0.07	0	0	0	0	0	0	0	0
2/19/2025 19:57	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:57	42302	MOWR_T2	32	31	-1	0.27	0.29	0.02	0	0	0	0	0	0	0	0
2/19/2025 19:57	62105	ELAN_T1	0	0	0	0	0	0	0.58	0.6	0	0	0	0	0	0
2/19/2025 19:57	52402	GRPA_T2	80	74	-6	0.89	0.85	-0.04	0	0	0	0	0	0	0	0
2/19/2025 19:57	52401	GRPA_T2	5	8	3	0.42	0.2	-0.22	0	0	0	0	0	0	0	0
2/19/2025 19:57	65601	QVIL_T2	0	10	10	0	0.11	0.11	0	0	0	0	0	0	0	0
2/19/2025 19:57	44301	BEAV_T2	19	18	-1	0.73	0.61	-0.12	0	0	0	0	0	0	0	0
2/19/2025 19:57	46803	HEPB_T2	0	1	1	0	0.1	0.1	0.57	0.55	0	0	0	0	0	0
2/19/2025 19:57	45001	LIME_2	31	58	27	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
2/19/2025 19:57	55101	WERT_T1	0	0	0	0	0	0	-1.72	-1.71	2	2	0	1500	1500	0
2/19/2025 19:57	60801	BUCK_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
2/19/2025 19:57	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:57	60501	NMAN_T2	1	4	3	0.1	0.1	0	0	0	0	0	0	0	0	0
2/19/2025 19:57	45002	LIME_2	1	1	0	3.6	4.2	0.6	0	0	0	0	0	0	0	0
2/19/2025 19:57	41602	CLEV_T1	4	10	6	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
2/19/2025 19:57	60701	BREC_T1	5	5	0	0.4	0.4	0	-0.3	-0.29	1	1	0	600	600	0
2/19/2025 19:57	65202	PRIN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/19/2025 19:57	60502	NMAN_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
2/19/2025 19:57	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:57	46801	HEPB_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 19:57	42301	MOWR_T2	0	0	0	0	0	0	-0.31	-0.28	0	0	0	0	0	0
2/19/2025 19:57	45802	HEGI_T2	4	59	55	0.33	1.09	0.76	0	0	0	0	0	0	0	0
2/19/2025 19:57	44802	EDAN_T2	0	0	0	0	0	0	-2.07	-2.09	0	0	0	0	0	0
2/19/2025 19:57	65502	MOJO_T2	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
2/19/2025 19:57	57403	SPAN_T1	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
2/19/2025 19:57	42901	MIDD_T2	3	3	0	1	1.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:58	67402	WAKE_T2	0	0	0	0	0	0	-0.25	-0.2	1	1	0	600	600	0
2/19/2025 19:58	53502	EVIL_T2	0	11	11	0	0.95	0.95	0	0	0	0	0	0	0	0
2/19/2025 19:58	20603	GRWO_T2	22	22	0	0.96	0.31	-0.65	0	0	0	0	0	0	0	0
2/19/2025 19:58	20601	GRWO_T2	5	8	3	0.7	1.06	0.36	0	0	0	0	0	0	0	0
2/19/2025 19:58	45502	DERR_T2	1	5	4	0.2	0.55	0.35	0	0	0	0	0	0	0	0
2/19/2025 19:58	53501	EVIL_T2	0	1	1	0	0.1	0.1	-2.59	-2.52	4	4	0	2400	2400	0
2/19/2025 19:58	57401	SPAN_T1	0	0	0	0	0	0	-1.06	-1.09	1	1	0	600	600	0
2/19/2025 19:58	60701	BREC_T1	5	5	0	0.4	0.4	0	-0.9	-0.87	3	3	0	1800	1800	0
2/19/2025 19:58	57104	SPHI_T2	1	1	0	2.2	2	-0.2	0	0	0	0	0	0	0	0
2/19/2025 19:58	47103	MARL_T2	0	0	0	0	0	0	-1.61	-1.64	0	0	0	0	0	0
2/19/2025 19:58	45702	LIND_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
2/19/2025 19:58	57103	SPHI_T2	0	0	0	0	0	0	-0.76	-0.73	1	1	0	600	600	0
2/19/2025 19:58	46203	DANV_T2	201	253	52	0.76	0.75	-0.01	-3	-2.99	0	0	0	0	0	0
2/19/2025 19:58	42902	MIDD_T2	5	29	24	0.72	0.54	-0.18	0	0	0	0	0	0	0	0
2/19/2025 19:58	40501	CRES_T2	8	13	5	0.23	0.23	0	0	0	0	0	0	0	0	0
2/19/2025 19:58	67201	TEHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:58	44502	HAMI_T2	1	2	1	2.4	2.5	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:58	52502	PROG_T2	0	0	0	0	0	0	-0.27	-0.25	1	1	0	900	900	0
2/19/2025 19:58	57106	SPHI_T2	3	3	0	1.1	1.17	0.07	0	0	0	0	0	0	0	0
2/19/2025 19:58	42903	MIDD_T2	0	0	0	0	0	0	-1.56	-1.58	1	1	0	1200	1200	0
2/19/2025 19:58	64101	REFR_T1	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
2/19/2025 19:58	46204	DANV_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/19/2025 19:58	55101	WERT_T1	0	0	0	0	0	0	-1.72	-1.71	2	2	0	1500	1500	0
2/19/2025 19:58	66505	SMAN_T2	3	3	0	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
2/19/2025 19:58	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:58	44801	EDAN_T2	1	1	0	0.2	0	-0.2	-0.29	-0.28	0	0	0	0	0	0
2/19/2025 19:58	57203	ROSS_T1	0	0	0	0	0	0	-0.02	0.01	0	0	0	0	0	0
2/19/2025 19:58	52102	MEIS_T1	2	1	-1	0.95	0	-0.95	0	0	0	0	0	0	0	0
2/19/2025 19:58	54203	PENN_T1	18	18	0	0.38	0.58	0.2	0	0	0	0	0	0	0	0
2/19/2025 19:58	50701	SMEC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:58	54201	PENN_T1	3	7	4	0.47	0.4	-0.07	0.79	0.81	0	0	0	0	0	0
2/19/2025 19:58	44505	HAMI_T2	0	0	0	0	0	0	-0.05	-0.01	0	0	0	0	0	0
2/19/2025 19:58	10801	CHHI_T1	4	7	3	0.98	0.6	-0.38	-1.88	-1.9	3	3	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/19/2025 19:58	45501	DERR_T2	4	8	4	0.58	0	-0.58	0.75	0.77	2	2	0	1800	1800	0
2/19/2025 19:58	55002	NEWP_T1	3	4	1	0.63	0.73	0.1	-0.12	-0.12	0	0	0	0	0	0
2/19/2025 19:58	10805	CHHI_T2	7	13	6	2.43	2.83	0.4	-0.79	-0.79	1	1	0	600	600	0
2/19/2025 19:58	52101	MEIS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/19/2025 19:58	45802	HEGI_T2	4	59	55	0.33	1.09	0.76	0	0	0	0	0	0	0	0
2/19/2025 19:58	67203	TEHI_T1	1	0	-1	0.2	0	-0.2	2.78	2.77	2	2	0	1500	1500	0
2/19/2025 19:58	57402	SPAN_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
2/19/2025 19:59	52404	GRPA_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/19/2025 19:59	53501	EVIL_T2	0	1	1	0	0.1	0.1	-1.29	-1.26	2	2	0	1200	1200	0
2/19/2025 19:59	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:59	40601	PIGR_T1	22	41	19	0.19	0.25	0.06	-0.1	-0.07	0	0	0	0	0	0
2/19/2025 19:59	40602	PIGR_T1	2	1	-1	1.15	0	-1.15	0.38	0.34	0	0	0	0	0	0
2/19/2025 19:59	52403	GRPA_T2	85	74	-11	0.61	0.68	0.07	0	0	0	0	0	0	0	0
2/19/2025 19:59	47104	MARL_T1	0	0	0	0	0	0	-0.8	-0.78	0	0	0	0	0	0
2/19/2025 19:59	53502	EVIL_T2	0	11	11	0	0.95	0.95	0	0	0	0	0	0	0	0
2/19/2025 19:59	66505	SMAN_T2	3	3	0	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
2/19/2025 19:59	40201	BEGA_T2	46	3	-43	0.62	0.3	-0.32	0	0	0	0	0	0	0	0
2/19/2025 19:59	64101	REFR_T1	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
2/19/2025 19:59	40603	PIGR_T1	2	2	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
2/19/2025 19:59	54503	ENOL_T2	0	0	0	0	0	0	-0.25	-0.28	1	1	0	600	600	0
2/19/2025 19:59	66302	MCGO_T2	0	0	0	0	0	0	-1.29	-1.3	1	1	0	600	600	0
2/19/2025 19:59	52402	GRPA_T2	80	74	-6	0.89	0.85	-0.04	0	0	0	0	0	0	0	0
2/19/2025 19:59	66303	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:59	54502	ENOL_T2	0	0	0	0	0	0	-1.84	-1.83	1	1	0	600	600	0
2/19/2025 19:59	45802	HEGI_T2	4	59	55	0.33	1.09	0.76	0.98	0.16	0	0	0	0	0	0
2/19/2025 19:59	67203	TEHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 19:59	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 19:59	52502	PROG_T2	0	0	0	0	0	0	-0.81	-0.75	3	3	0	2700	2700	0
2/19/2025 19:59	55001	NEWP_T1	0	0	0	0	0	0	-0.79	-0.73	1	1	0	600	600	0
2/19/2025 19:59	52401	GRPA_T2	5	8	3	0.42	0.2	-0.22	-0.74	-0.82	0	0	0	0	0	0
2/19/2025 19:59	67201	TEHI_T1	0	1	1	0	0.1	0.1	-0.27	0.36	1	0	-1	900	0	-900
2/19/2025 19:59	45402	WBLO_T2	23	30	7	0.33	0.19	-0.14	-1.3	-1.28	1	1	0	900	900	0
2/19/2025 19:59	46203	DANV_T2	201	253	52	0.76	0.75	-0.01	-1.5	-1.49	0	0	0	0	0	0
2/19/2025 19:59	67402	WAKE_T2	0	0	0	0	0	0	-0.25	-0.2	1	1	0	600	600	0
2/19/2025 19:59	57201	ROSS_T1	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
2/19/2025 19:59	47101	MARL_T1	77	61	-16	1.22	0.88	-0.34	0	0	0	0	0	0	0	0
2/19/2025 19:59	46204	DANV_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/19/2025 19:59	55002	NEWP_T1	3	4	1	0.63	0.73	0.1	0	0	0	0	0	0	0	0
2/19/2025 19:59	59101	WALK_T2	0	0	0	0	0	0	0.77	0.9	1	1	0	600	600	0
2/19/2025 20:00	42301	MOWR_T2	0	0	0	0	0	0	-0.31	-0.28	0	0	0	0	0	0
2/19/2025 20:00	57104	SPHI_T2	1	1	0	2.1	2	-0.1	0	0	0	0	0	0	0	0
2/19/2025 20:00	58201	NEWV_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
2/19/2025 20:00	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 20:00	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 20:00	67901	WNHO_T2	0	1	1	0	0.1	0.1	0.03	-0.01	0	0	0	0	0	0
2/19/2025 20:00	46204	DANV_T2	1	5	4	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 20:00	60501	NMAN_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 20:00	14401	SSLA_T1	3	3	0	0.77	2.67	1.9	0	0	0	0	0	0	0	0
2/19/2025 20:00	18001	ZION_T1	2	2	0	7.2	7.65	0.45	0	0	0	0	0	0	0	0
2/19/2025 20:00	14403	SSLA_T1	5	8	3	1.02	1	-0.02	1.06	1.03	0	0	0	0	0	0
2/19/2025 20:00	51204	MTON_T2	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
2/19/2025 20:00	57106	SPHI_T2	3	3	0	1	1.17	0.17	0	0	0	0	0	0	0	0
2/19/2025 20:00	42302	MOWR_T2	30	31	1	0.29	0.3	0.01	0	0	0	0	0	0	0	0
2/19/2025 20:00	55101	WERT_T1	0	0	0	0	0	0	-1.72	-1.71	2	2	0	1500	1500	0
2/19/2025 20:00	14402	SSLA_T1	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/19/2025 20:00	52502	PROG_T2	0	0	0	0	0	0	-0.27	-0.25	1	1	0	900	900	0
2/19/2025 20:00	41602	CLEV_T1	10	3	-7	0.38	0	-0.38	0	0	0	0	0	0	0	0
2/19/2025 20:00	57401	SPAN_T1	0	0	0	0	0	0	-1.06	-1.09	1	1	0	600	600	0
2/19/2025 20:00	60502	NMAN_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
2/19/2025 20:00	58302	NOTT_T1	0	0	0	0	0	0	-0.36	-0.35	1	1	0	1200	1200	0
2/19/2025 20:00	41902	REED_T1	11	12	1	0.29	0.48	0.19	0.33	0.37	1	1	0	900	900	0
2/19/2025 20:00	46203	DANV_T2	198	261	63	0.8	0.77	-0.03	0	0	0	0	0	0	0	0
2/19/2025 20:00	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 20:00	57103	SPHI_T2	0	0	0	0	0	0	-0.76	-0.73	1	1	0	600	600	0
2/19/2025 20:00	46206	DANV_T2	0	0	0	0	0	0	1.32	1.27	2	2	0	2100	2100	0
2/19/2025 20:00	40201	BEGA_T2	2	11	9	0.9	0.35	-0.55	0	0	0	0	0	0	0	0
2/19/2025 20:00	45702	LIND_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
2/19/2025 20:00	58202	NEWV_T1	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
2/19/2025 20:00	60801	BUCK_T1	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
2/19/2025 20:01	40501	CRES_T2	10	16	6	0.21	0.27	0.06	0	0	0	0	0	0	0	0
2/19/2025 20:01	42901	MIDD_T2	3	1	-2	2.27	0.7	-1.57	0	0	0	0	0	0	0	0
2/19/2025 20:01	59003	MIFF_T1	0	1	1	0	0	0	-0.29	-0.23	0	0	0	0	0	0
2/19/2025 20:01	42902	MIDD_T2	17	29	12	0.54	1.12	0.58	-0.71	-0.89	0	1	1	0	600	600
2/19/2025 20:01	46001	BERW_T1	0	0	0	0	0	0	0.57	0.66	0	0	0	0	0	0
2/19/2025 20:01	53501	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 20:01	61502	EPET_T1	0	0	0	0	0	0	-0.86	-0.91	0	0	0	0	0	0
2/19/2025 20:01	67402	WAKE_T2	0	0	0	0	0	0	-0.25	-0.2	1	1	0	600	600	0
2/19/2025 20:01	53502	EVIL_T2	10	11	1	0.95	2.71	1.76	0	0	0	0	0	0	0	0
2/19/2025 20:01	52502	PROG_T2	0	0	0	0	0	0	-0.27	-0.25	1	1	0	900	900	0
2/19/2025 20:01	55101	WERT_T1	0	0	0	0	0	0	-3.43	-3.41	4	4	0	3000	3000	0
2/19/2025 20:01	60701	BREC_T1	2	8	6	0.4	0.34	-0.06	-0.9	-0.87	3	3	0	1800	1800	0
2/19/2025 20:02	45501	DERR_T2	0	8	8	0	0	0	0.75	0.77	2	2	0	1800	1800	0
2/19/2025 20:02	11103	EGYP_T1	0	0	0	0	0	0	-0.76	-0.73	0	0	0	0	0	0
2/19/2025 20:02	40601	PIGR_T1	30	40	10	0.2	0.26	0.06	0	0	0	0	0	0	0	0
2/19/2025 20:02	57201	ROSS_T1	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
2/19/2025 20:02	11104	EGYP_T1	2	1	-1	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
2/19/2025 20:02	51201	MTON_T1	1	1	0	3.1	3	-0.1	0	0	0	0	0	0	0	0
2/19/2025 20:02	11102	EGYP_T1	0	7	7	0	0.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 20:02	47203	FAXO_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
2/19/2025 20:02	52101	MEIS_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/19/2025 20:02	60701	BREC_T1	2	8	6	0.4	0.34	-0.06	-0.3	-0.29	1	1	0	600	600	0
2/19/2025 20:02	40201	BEGA_T2	2	11	9	0.9	0.35	-0.55	0	0	0	0	0	0	0	0
2/19/2025 20:02	40602	PIGR_T1	0	1	1	0	0	0	0.38	0.34	0	0	0	0	0	0
2/19/2025 20:02	58201	NEWV_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
2/19/2025 20:02	46203	DANV_T2	198	261	63	0.8	0.77	-0.03	-1.5	-1.49	0	0	0	0	0	0
2/19/2025 20:02	52402	GRPA_T2	60	87	27	0.89	0.81	-0.08	0	0	0	0	0	0	0	0
2/19/2025 20:02	52502	PROG_T2	0	0	0	0	0	0	-0.27	-0.25	1	1	0	900	900	0
2/19/2025 20:02	45502	DERR_T2	5	4	-1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/19/2025 20:02	20601	GRWO_T2	8	5	-3	1.08	1.08	0	0.03	0.04	0	0	0	0	0	0
2/19/2025 20:02	52403	GRPA_T2	30	96	66	0.73	0.64	-0.09	0	0	0	0	0	0	0	0
2/19/2025 20:02	52401	GRPA_T2	8	5	-3	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
2/19/2025 20:02	65502	MOJO_T2	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
2/19/2025 20:02	40501	CRES_T2	10	16	6	0.21	0.27	0.06	0	0	0	0	0	0	0	0
2/19/2025 20:02	46204	DANV_T2	1	5	4	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 20:02	49803	UNIV_T1	1	1	0	6	5.8	-0.2	-0.93	-0.92	0	0	0	0	0	0
2/19/2025 20:02	40603	PIGR_T1	2	1	-1	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
2/19/2025 20:02	52102	MEIS_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 20:02	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 20:02	20603	GRWO_T2	22	21	-1	0.69	0.27	-0.42	0	0	0	0	0	0	0	0
2/19/2025 20:02	64101	REFR_T1	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
2/19/2025 20:02	52404	GRPA_T2	2	7	5	0.45	0	-0.45	0	0	0	0	0	0	0	0
2/19/2025 20:02	67901	WNHO_T2	0	1	1	0	0.1	0.1	0.03	-0.01	0	0	0	0	0	0
2/19/2025 20:03	52402	GRPA_T2	60	87	27	0.89	0.81	-0.08	0	0	0	0	0	0	0	0
2/19/2025 20:03	40501	CRES_T2	10	16	6	0.21	0.27	0.06	0	0	0	0	0	0	0	0
2/19/2025 20:03	65601	QVIL_T2	0	26	26	0	0.16	0.16	0	0	0	0	0	0	0	0
2/19/2025 20:03	45002	LIME_2	1	1	0	3.3	4.2	0.9	-0.15	0.62	0	0	0	0	0	0
2/19/2025 20:03	52102	MEIS_T1	1	1	0	0.1	0	-0.1	0	0	1	1	0	450	450	0
2/19/2025 20:03	52004	LING_T2	2	3	1	5	3.53	-1.47	0	0	0	0	0	0	0	0
2/19/2025 20:03	52502	PROG_T2	0	0	0	0	0	0	-0.54	-0.5	2	2	0	1800	1800	0
2/19/2025 20:03	52404	GRPA_T2	2	7	5	0.45	0	-0.45	0	0	0	0	0	0	0	0
2/19/2025 20:03	64101	REFR_T1	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
2/19/2025 20:03	46203	DANV_T2	198	261	63	0.8	0.77	-0.03	-1.5	-1.49	0	0	0	0	0	0
2/19/2025 20:03	61304	EARL_T1	0	0	0	0	0	0	-0.78	-0.77	1	1	0	600	600	0
2/19/2025 20:03	45003	LIME_2	49	60	11	0.79	0.94	0.15	0.53	0.55	0	0	0	0	0	0
2/19/2025 20:03	53501	EVIL_T2	0	1	1	0	0.1	0.1	-1.29	-1.26	2	2	0	1200	1200	0
2/19/2025 20:03	65604	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/19/2025 20:03	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 20:03	40603	PIGR_T1	2	1	-1	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
2/19/2025 20:03	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 20:03	50506	MECH_T1	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
2/19/2025 20:03	57205	ROSS_T1	0	0	0	0	0	0	0.34	0.43	0	0	0	0	0	0
2/19/2025 20:03	52403	GRPA_T2	30	96	66	0.73	0.64	-0.09	-0.56	-0.58	0	0	0	0	0	0
2/19/2025 20:03	40601	PIGR_T1	30	40	10	0.2	0.26	0.06	-0.1	-0.07	0	0	0	0	0	0
2/19/2025 20:03	52002	LING_T2	0	0	0	0	0	0	0.02	0.09	0	0	0	0	0	0
2/19/2025 20:03	52101	MEIS_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/19/2025 20:03	60502	NMAN_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 20:03	65603	QVIL_T2	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
2/19/2025 20:03	65602	QVIL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
2/19/2025 20:03	66903	SHIL_T2	0	0	0	0	0	0	-1.21	-1.22	0	0	0	0	0	0
2/19/2025 20:03	50502	MECH_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
2/19/2025 20:03	50501	MECH_T1	2	4	2	0.15	0.43	0.28	0	0	0	0	0	0	0	0
2/19/2025 20:03	52401	GRPA_T2	8	5	-3	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
2/19/2025 20:03	45001	LIME_2	45	35	-10	0.44	0.64	0.2	0	0	0	0	0	0	0	0
2/19/2025 20:03	46204	DANV_T2	1	5	4	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/19/2025 20:03	53502	EVIL_T2	10	11	1	0.95	2.71	1.76	0	0	0	0	0	0	0	0
2/19/2025 20:04	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 20:04	60501	NMAN_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 20:04	52403	GRPA_T2	30	96	66	0.73	0.64	-0.09	-0.56	-0.58	0	0	0	0	0	0
2/19/2025 20:04	42504	ALTA_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
2/19/2025 20:04	54502	ENOL_T2	0	0	0	0	0	0	-1.84	-1.83	1	1	0	600	600	0
2/19/2025 20:04	52404	GRPA_T2	2	7	5	0.45	0	-0.45	0	0	0	0	0	0	0	0
2/19/2025 20:04	52402	GRPA_T2	60	87	27	0.89	0.81	-0.08	0	0	0	0	0	0	0	0
2/19/2025 20:04	45001	LIME_2	45	35	-10	0.44	0.64	0.2	0	0	0	0	0	0	0	0
2/19/2025 20:04	40101	HUNT_T2	15	18	3	1.65	1.42	-0.23	-1.91	-1.93	0	0	0	0	0	0
2/19/2025 20:04	66302	MCGO_T2	0	0	0	0	0	0	-2.59	-2.61	2	2	0	1200	1200	0
2/19/2025 20:04	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 20:04	42501	ALTA_T2	0	0	0	0	0	0	0.06	0.08	1	1	0	600	600	0
2/19/2025 20:04	57403	SPAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 20:04	65502	MOJO_T2	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
2/19/2025 20:04	64101	REFR_T1	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
2/19/2025 20:04	45003	LIME_2	49	60	11	0.79	0.94	0.15	0	0	0	0	0	0	0	0
2/19/2025 20:04	57401	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 20:04	40603	PIGR_T1	2	1	-1	1.3	0.5	-0.8	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/19/2025 20:04	66303	MCGO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 20:04	45002	LIME_2	1	1	0	3.3	4.2	0.9	0	0	0	0	0	0	0	0
2/19/2025 20:04	52401	GRPA_T2	8	5	-3	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
2/19/2025 20:04	65503	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 20:04	42503	ALTA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/19/2025 20:04	40601	PIGR_T1	30	40	10	0.2	0.26	0.06	-0.1	-0.07	0	0	0	0	0	0
2/19/2025 20:04	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 20:05	45003	LIME_2	49	60	11	0.79	0.94	0.15	0.53	0.55	0	0	0	0	0	0
2/19/2025 20:05	53502	EVIL_T2	10	11	1	0.95	2.71	1.76	0	0	0	0	0	0	0	0
2/19/2025 20:05	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 20:05	45001	LIME_2	45	35	-10	0.44	0.64	0.2	0	0	0	0	0	0	0	0
2/19/2025 20:05	51202	MTON_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
2/19/2025 20:05	40601	PIGR_T1	30	40	10	0.2	0.26	0.06	0	0	0	0	0	0	0	0
2/19/2025 20:05	42201	SHEN_T2	1	1	0	0.6	0	-0.6	0.22	0.19	1	1	0	600	600	0
2/19/2025 20:05	41902	REED_T1	11	12	1	0.29	0.48	0.19	0.66	0.74	2	2	0	1800	1800	0
2/19/2025 20:05	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/19/2025 20:05	45002	LIME_2	1	1	0	3.3	4.2	0.9	0	0	0	0	0	0	0	0
2/19/2025 20:05	64904	MILL_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
2/19/2025 20:05	53501	EVIL_T2	0	1	1	0	0.1	0.1	-1.29	-1.26	2	2	0	1200	1200	0
2/19/2025 20:05	40603	PIGR_T1	2	1	-1	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
2/19/2025 20:05	42202	SHEN_T2	5	6	1	0.44	0	-0.44	0	0	0	0	0	0	0	0
2/19/2025 20:06	58201	NEWV_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
2/19/2025 20:06	40601	PIGR_T1	30	40	10	0.2	0.26	0.06	0	0	0	0	0	0	0	0
2/19/2025 20:06	52502	PROG_T2	0	0	0	0	0	0	-0.27	-0.25	1	1	0	900	900	0
2/19/2025 20:06	40603	PIGR_T1	2	1	-1	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
2/19/2025 20:06	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 20:06	44801	EDAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/19/2025 20:06	50502	MECH_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
2/19/2025 20:06	50501	MECH_T1	2	4	2	0.15	0.43	0.28	0	0	0	0	0	0	0	0
2/19/2025 20:06	58202	NEWV_T1	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
2/19/2025 20:06	50506	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2025 20:07	45002	LIME_2	1	1	0	3.3	4.2	0.9	0	0	0	0	0	0	0	0
2/19/2025 20:07	45001	LIME_2	45	35	-10	0.44	0.64	0.2	0	0	0	0	0	0	0	0
2/19/2025 20:07	51204	MTON_T2	0	0	0	0	0	0	0.6	0.56	0	0	0	0	0	0
2/19/2025 20:07	57403	SPAN_T1	0	1	1	0	0	0	0.3	0.29	0	0	0	0	0	0
2/19/2025 20:07	45003	LIME_2	49	60	11	0.79	0.94	0.15	0.55	0.55	0	0	0	0	0	0
2/19/2025 20:08	49804	UNIV_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
2/19/2025 20:08	49803	UNIV_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
2/19/2025 20:09	57201	ROSS_T1	0	0	0	0	0	0	-0.72	-0.77	0	0	0	0	0	0
2/19/2025 20:09	51201	MTON_T1	1	1	0	3.1	3	-0.1	0.21	0.21	0	0	0	0	0	0
2/19/2025 20:11	60701	BREC_T1	2	8	6	0.4	0.34	-0.06	-0.29	-0.32	1	1	0	600	600	0
2/19/2025 20:12	57201	ROSS_T1	0	0	0	0	0	0	-0.72	-0.77	0	0	0	0	0	0
2/19/2025 20:33	53902	HALI_T2	1	1	0	4.2	4.6	0.4	0	0	0	0	0	0	0	0
2/19/2025 20:33	53901	HALI_T2	0	0	0	0	0	0	-1.24	-1.28	0	0	0	0	0	0
2/19/2025 21:21	52502	PROG_T2	0	0	0	0	0	0	-0.28	-0.27	1	1	0	900	900	0
2/20/2025 0:30	45802	HEGI_T2	48	48	0	2.14	2.7	0.56	0.03	-0.03	0	0	0	0	0	0
2/20/2025 2:40	60201	ATGL_T2	100	88	-12	0.35	0.3	-0.05	-0.21	-0.2	0	0	0	0	0	0
2/20/2025 7:22	67001	STHI_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
2/20/2025 7:22	67002	STHI_T2	0	15	15	0	0.13	0.13	0.73	0.75	0	0	0	0	0	0
2/20/2025 7:44	16102	BING_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/20/2025 7:44	16101	BING_T2	0	0	0	0	0	0	0.71	0.66	0	0	0	0	0	0
2/20/2025 7:44	16103	BING_T2	3	3	0	1.43	0.47	-0.96	0	0	0	0	0	0	0	0
2/20/2025 7:46	64801	MONE_T2	1	5	4	1.1	0.2	-0.9	83.96	83.96	0	0	0	0	0	0
2/20/2025 7:49	65601	QIVL_T2	0	0	0	0	0	0	-0.81	-0.75	1	1	0	900	900	0
2/20/2025 7:50	65604	QVIL_T2	0	0	0	0	0	0	0.69	0.63	0	0	0	0	0	0
2/20/2025 7:51	66902	SHIL_T2	0	0	0	0	0	0	-0.89	-0.91	0	0	0	0	0	0
2/20/2025 7:57	53502	EVIL_T2	12	12	0	2.19	0.45	-1.74	0.21	0.23	2	2	0	1200	1200	0
2/20/2025 7:57	53501	EVIL_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
2/20/2025 8:05	60501	NMAN_T2	81	101	20	0.28	0.33	0.05	0	0	0	0	0	0	0	0
2/20/2025 8:05	60502	NMAN_T2	0	0	0	0	0	0	0.04	-0.01	0	0	0	0	0	0
2/20/2025 8:08	41903	REED_T1	4	0	-4	1.28	0	-1.28	0	0	0	0	0	0	0	0
2/20/2025 8:08	11507	FREE_T2	236	190	-46	0.84	0.84	0	2.11	1.95	0	0	0	0	0	0
2/20/2025 8:08	41901	REED_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/20/2025 8:08	41902	REED_T1	25	31	6	0.55	0.33	-0.22	0.49	0.51	1	1	0	900	900	0
2/20/2025 8:11	46204	DANV_T2	96	45	-51	0.51	0.34	-0.17	0	0	0	0	0	0	0	0
2/20/2025 8:11	46203	DANV_T2	32	181	149	0.83	0.72	-0.11	-1.44	-1.47	0	0	0	0	0	0
2/20/2025 8:11	46206	DANV_T2	29	10	-19	0.61	0.7	0.09	0	0	0	0	0	0	0	0
2/20/2025 8:12	46203	DANV_T2	32	181	149	0.83	0.72	-0.11	-1.44	-1.47	0	0	0	0	0	0
2/20/2025 8:12	46206	DANV_T2	29	10	-19	0.61	0.7	0.09	0	0	0	0	0	0	0	0
2/20/2025 8:12	46204	DANV_T2	96	45	-51	0.51	0.34	-0.17	0	0	0	0	0	0	0	0
2/20/2025 8:13	46206	DANV_T2	29	10	-19	0.61	0.7	0.09	0	0	0	0	0	0	0	0
2/20/2025 8:13	46204	DANV_T2	96	45	-51	0.51	0.34	-0.17	0	0	0	0	0	0	0	0
2/20/2025 8:13	46203	DANV_T2	32	181	149	0.83	0.72	-0.11	-1.44	-1.47	0	0	0	0	0	0
2/20/2025 8:14	45801	HEGI_T1	0	0	0	0	0	0	-0.62	-0.57	1	1	0	900	900	0
2/20/2025 8:22	58202	NEWV_T1	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
2/20/2025 8:22	58201	NEWV_T1	1	1	0	1.6	1.1	-0.5	0	0	0	0	0	0	0	0
2/20/2025 8:23	55101	WERT_T1	0	6	6	0	0.3	0.3	-1.19	-1.26	2	2	0	1500	1500	0
2/20/2025 8:25	55101	WERT_T1	0	6	6	0	0.3	0.3	-1.19	-1.26	2	2	0	1500	1500	0
2/20/2025 8:26	55101	WERT_T1	0	6	6	0	0.3	0.3	-2.37	-2.51	4	4	0	3000	3000	0
2/20/2025 8:27	55101	WERT_T1	0	6	6	0	0.3	0.3	-1.19	-1.26	2	2	0	1500	1500	0
2/20/2025 8:28	55101	WERT_T1	0	6	6	0	0.3	0.3	-1.19	-1.26	2	2	0	1500	1500	0
2/20/2025 8:45	46206	DANV_T2	6	10	4	1.03	0.78	-0.25	0	0	0	0	0	0	0	0
2/20/2025 8:45	46203	DANV_T2	187	238	51	0.75	0.71	-0.04	-1.47	-1.48	0	0	0	0	0	0
2/20/2025 8:45	46204	DANV_T2	65	28	-37	0.4	0.29	-0.11	0	0	0	0	0	0	0	0
2/20/2025 8:49	20601	GRWO_T2	106	194	88	0.74	0.96	0.22	0.4	0.61	0	0	0	0	0	0
2/20/2025 8:49	20603	GRWO_T2	22	7	-15	0.44	0.23	-0.21	0	0	0	0	0	0	0	0
2/20/2025 8:50	45003	LIME_2	59	59	0	1.45	1.11	-0.34	0.75	0.77	0	0	0	0	0	0
2/20/2025 8:50	45001	LIME_2	18	32	14	0.98	0.47	-0.51	0	0	0	0	0	0	0	0
2/20/2025 8:50	45002	LIME_2	1	1	0	3.9	4.9	1	0	0	0	0	0	0	0	0
2/20/2025 8:51	67106	SPRI_T2	0	0	0	0	0	0	-1.84	-1.84	1	1	0	900	900	0
2/20/2025 8:53	49802	UNIV_T2	0	0	0	0	0	0	-0.62	-0.67	0	0	0	0	0	0
2/20/2025 8:53	67106	SPRI_T2	0	0	0	0	0	0	-3.68	-3.68	2	2	0	1800	1800	0
2/20/2025 8:54	24202	PROV_T4	0	0	0	0	0	0	-0.66	-0.66	1	1	0	1200	1200	0
2/20/2025 8:55	25801	SUTR_T2	8	7	-1	3	4.16	1.16	-0.52	-0.51	0	0	0	0	0	0
2/20/2025 9:00	45701	LIND_T2	0	0	0	0	0	0	-1.53	-1.55	0	0	0	0	0	0
2/20/2025 9:00	53901	HALI_T2	0	0	0	0	0	0	-1.32	-1.31	0	0	0	0	0	0
2/20/2025 9:00	28102	TWLA_T2	14	45	31	0.54	0.49	-0.05	0.32	0.31	0	0	0	0	0	0
2/20/2025 9:00	20401	ASHF_T2	1	4	3	0.4	0.45	0.05	0.01	0.05	1	1	0	600	600	0
2/20/2025 9:00	20403	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/20/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
2/20/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
2/20/2025 9:00	53902	HALI_T2	1	1	0	4.2	4.4	0.2	0	0	0	0	0	0	0	0
2/20/2025 9:00	22803	HAUT_T2	17	31	14	1.04	1.08	0.04	0	0	0	0	0	0	0	0
2/20/2025 9:00	20402	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 9:00	22805	HAUT_T2	47	53	6	1.14	1.32	0.18	0	0	0	0	0	0	0	0
2/20/2025 9:01	45702	LIND_T2	0	0	0	0	0	0	-0.22	-0.26	0	0	0	0	0	0
2/20/2025 9:01	52402	GRPA_T2	83	65	-18	0.79	0.75	-0.04	0	0	0	0	0	0	0	0
2/20/2025 9:01	52403	GRPA_T2	17	7	-10	0.79	1.35	0.56	-0.55	-0.55	0	0	0	0	0	0
2/20/2025 9:01	52401	GRPA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/20/2025 9:02	45701	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 9:02	63804	HEMP_T1	1	1	0	6.8	6.8	0	0.71	0.75	0	0	0	0	0	0
2/20/2025 9:04	59302	MCAL_T1	0	0	0	0	0	0	-0.36	-0.4	1	1	0	600	600	0
2/20/2025 9:04	45702	LIND_T2	0	0	0	0	0	0	-0.22	-0.26	0	0	0	0	0	0
2/20/2025 9:04	59301	MCAL_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/20/2025 9:07	52502	PROG_T2	0	0	0	0	0	0	-0.22	-0.19	1	1	0	900	900	0
2/20/2025 9:08	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 9:08	56501	ROCK_T2	2	2	0	1.1	0.5	-0.6	-2.76	-2.74	0	0	0	0	0	0
2/20/2025 9:08	52502	PROG_T2	0	0	0	0	0	0	-0.22	-0.19	1	1	0	900	900	0
2/20/2025 9:09	55101	WERT_T1	5	5	0	0.76	0.6	-0.16	-1.23	-1.19	2	2	0	1500	1500	0
2/20/2025 9:10	29402	BELT_T1	1	1	0	8.1	7.5	-0.6	0	0	0	0	0	0	0	0
2/20/2025 9:10	29401	BELT_T1	4	0	-4	0.1	0	-0.1	0	0	1	1	0	900	900	0
2/20/2025 9:11	55101	WERT_T1	5	5	0	0.76	0.6	-0.16	-1.23	-1.19	2	2	0	1500	1500	0
2/20/2025 9:11	56504	ROCK_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 9:11	56501	ROCK_T2	2	2	0	1.1	0.5	-0.6	-1.38	-1.37	0	0	0	0	0	0
2/20/2025 9:11	57205	ROSS_T1	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
2/20/2025 9:12	16102	BING_T2	1	1	0	4.9	5.8	0.9	0.07	0.12	0	0	0	0	0	0
2/20/2025 9:12	55101	WERT_T1	5	5	0	0.76	0.6	-0.16	-1.23	-1.19	2	2	0	1500	1500	0
2/20/2025 9:12	42701	AUGU_T1	4	6	2	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
2/20/2025 9:13	55101	WERT_T1	5	5	0	0.76	0.6	-0.16	-2.46	-2.38	4	4	0	3000	3000	0
2/20/2025 9:14	44502	HAMI_T2	2	2	0	1.15	2.4	1.25	0	0	0	0	0	0	0	0
2/20/2025 9:14	44505	HAMI_T2	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
2/20/2025 9:14	11104	EGYP_T1	0	4	4	0	0	0	0.62	0.62	0	0	0	0	0	0
2/20/2025 9:14	10801	CHHI_T1	5	2	-3	1.58	2.8	1.22	-1.64	-1.64	3	3	0	2100	2100	0
2/20/2025 9:14	42701	AUGU_T1	4	6	2	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
2/20/2025 9:15	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 9:15	44502	HAMI_T2	2	1	-1	2.3	2.5	0.2	0	0	0	0	0	0	0	0
2/20/2025 9:15	47203	FAXO_T2	1	1	0	0.1	0	-0.1	-0.31	-0.32	0	0	0	0	0	0
2/20/2025 9:16	11104	EGYP_T1	1	4	3	0.1	0.33	0.23	0.62	0.62	0	0	0	0	0	0
2/20/2025 9:16	24104	EHAZ_T1	31	13	-18	0.17	0.13	-0.04	-2.14	-2.13	1	1	0	1200	1200	0
2/20/2025 9:16	63802	HEMP_T1	0	0	0	0	0	0	0.39	0.29	0	0	0	0	0	0
2/20/2025 9:16	24102	EHAZ_T1	0	11	11	0	0.3	0.3	0	0	0	0	0	0	0	0
2/20/2025 9:16	63804	HEMP_T1	1	8	7	6.8	6.9	0.1	0	0	0	0	0	0	0	0
2/20/2025 9:16	24105	EHAZ_T1	16	16	0	2.27	2.11	-0.16	0	0	0	0	0	0	0	0
2/20/2025 9:16	24103	EHAZ_T1	3	5	2	0.2	0.63	0.43	0	0	0	0	0	0	0	0
2/20/2025 9:16	24101	EHAZ_T1	41	58	17	1.2	1.27	0.07	0	0	0	0	0	0	0	0
2/20/2025 9:17	44505	HAMI_T2	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
2/20/2025 9:17	44502	HAMI_T2	2	1	-1	2.3	2.5	0.2	0	0	0	0	0	0	0	0
2/20/2025 9:19	55002	NEWP_T1	4	4	0	0.53	0.7	0.17	0	0	0	0	0	0	0	0
2/20/2025 9:19	63802	HEMP_T1	0	0	0	0	0	0	0.39	0.29	0	0	0	0	0	0
2/20/2025 9:19	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 9:19	53902	HALI_T2	1	1	0	4.4	4.6	0.2	0	0	0	0	0	0	0	0
2/20/2025 9:19	44502	HAMI_T2	2	1	-1	2.3	2.5	0.2	0	0	0	0	0	0	0	0
2/20/2025 9:19	55001	NEWP_T1	0	0	0	0	0	0	-0.69	-0.69	1	1	0	600	600	0
2/20/2025 9:19	53901	HALI_T2	0	0	0	0	0	0	-1.31	-1.29	0	0	0	0	0	0
2/20/2025 9:19	63804	HEMP_T1	1	8	7	6.8	6.9	0.1	0	0	0	0	0	0	0	0
2/20/2025 9:20	64801	MONE_T2	0	7	7	0	0.1	0.1	83.96	83.96	0	0	0	0	0	0
2/20/2025 9:20	64802	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/20/2025 9:22	41903	REED_T1	4	4	0	0.58	1.35	0.77	0	0	0	0	0	0	0	0
2/20/2025 9:22	41902	REED_T1	4	7	3	0.25	0.7	0.45	1	0.96	2	2	0	1800	1800	0
2/20/2025 9:22	55001	NEWP_T1	0	0	0	0	0	0	-0.69	-0.7	1	1	0	600	600	0
2/20/2025 9:22	55002	NEWP_T1	4	4	0	0.53	0.7	0.17	0	0	0	0	0	0	0	0
2/20/2025 9:22	41901	REED_T1	4	5	1	0.73	0.4	-0.33	0	0	0	0	0	0	0	0
2/20/2025 9:23	41902	REED_T1	4	7	3	0.25	0.7	0.45	0.5	0.48	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/20/2025 9:23	41901	REED_T1	4	5	1	0.73	0.4	-0.33	0	0	0	0	0	0	0	0
2/20/2025 9:23	41903	REED_T1	4	4	0	0.58	1.35	0.77	0	0	0	0	0	0	0	0
2/20/2025 9:23	49804	UNIV_T1	0	0	0	0	0	0	0.71	0.73	0	0	0	0	0	0
2/20/2025 9:23	49803	UNIV_T1	6	2	-4	1.28	5.9	4.62	0	0	0	0	0	0	0	0
2/20/2025 9:25	25402	LAHA_T2	69	52	-17	0.82	0.85	0.03	-0.3	-0.24	0	0	0	0	0	0
2/20/2025 9:25	53502	EVIL_T2	11	11	0	0.85	0.44	-0.41	0	0	0	0	0	0	0	0
2/20/2025 9:25	53501	EVIL_T2	2	1	-1	0.8	1.1	0.3	-2.75	-2.82	4	4	0	2700	2700	0
2/20/2025 9:30	16102	BING_T2	1	1	0	5.2	6.1	0.9	0	0	0	0	0	0	0	0
2/20/2025 9:30	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 9:32	46802	HEPB_T1	2	3	1	0.6	0.53	-0.07	-1.06	-1.06	0	0	0	0	0	0
2/20/2025 9:32	23401	HONE_T2	60	116	56	0.48	0.46	-0.02	0.27	0.22	0	0	0	0	0	0
2/20/2025 9:33	52403	GRPA_T2	5	7	2	1.32	0.79	-0.53	-0.63	-0.65	0	0	0	0	0	0
2/20/2025 9:33	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/20/2025 9:33	23401	HONE_T2	60	116	56	0.48	0.46	-0.02	0.27	0.22	0	0	0	0	0	0
2/20/2025 9:33	52402	GRPA_T2	62	62	0	0.84	0.73	-0.11	0	0	0	0	0	0	0	0
2/20/2025 9:34	43202	MVIL_T2	0	1	1	0	0.1	0.1	-0.46	-0.45	0	0	0	0	0	0
2/20/2025 9:34	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 9:36	60502	NMAN_T2	0	0	0	0	0	0	0.07	-0.09	0	0	0	0	0	0
2/20/2025 9:36	52403	GRPA_T2	5	7	2	1.32	0.79	-0.53	0	0	0	0	0	0	0	0
2/20/2025 9:36	52402	GRPA_T2	62	62	0	0.84	0.73	-0.11	0	0	0	0	0	0	0	0
2/20/2025 9:36	43202	MVIL_T2	0	1	1	0	0.1	0.1	-0.45	-0.44	0	0	0	0	0	0
2/20/2025 9:36	55002	NEWP_T1	4	4	0	0.65	0.63	-0.02	-0.12	-0.12	0	0	0	0	0	0
2/20/2025 9:36	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/20/2025 9:38	14401	SSLA_T1	3	3	0	1.17	0	-1.17	0	0	0	0	0	0	0	0
2/20/2025 9:38	14403	SSLA_T1	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
2/20/2025 9:40	29402	BELT_T1	1	1	0	7.4	8.4	1	0	0	0	0	0	0	0	0
2/20/2025 9:40	14403	SSLA_T1	2	0	-2	0.55	0	-0.55	1.01	1.02	0	0	0	0	0	0
2/20/2025 9:40	29401	BELT_T1	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
2/20/2025 9:40	14401	SSLA_T1	3	3	0	1.17	0	-1.17	0	0	0	0	0	0	0	0
2/20/2025 9:42	22003	BOHE_T1	0	21	21	0	0.16	0.16	-0.89	-0.9	0	0	0	0	0	0
2/20/2025 9:43	21601	EYNO_T1	10	5	-5	0.54	0.4	-0.14	0	0	0	0	0	0	0	0
2/20/2025 9:43	21606	EYNO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 9:44	11104	EGYP_T1	3	4	1	0.33	0	-0.33	0	0	0	0	0	0	0	0
1/20/2025 9:44	11101	EGYP_T1	0	0	0	0	0	0	-0.6	-0.6	1	1	0	1200	1200	0
2/20/2025 9:46	11104	EGYP_T1	4	0	-4	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/20/2025 9:46	11103	EGYP_T1	0	0	0	0	0	0	-0.67	-0.72	0	0	0	0	0	0
2/20/2025 9:47	52403	GRPA_T2	7	7	0	0.86	1.33	0.47	-1.29	-1.2	0	0	0	0	0	0
2/20/2025 9:47	52401	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/20/2025 9:47	52402	GRPA_T2	52	62	10	0.72	0.72	0	0	0	0	0	0	0	0	0
2/20/2025 9:52	40302	TAMA_T3	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
2/20/2025 9:52	58201	NEWV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/20/2025 9:52	40303	TAMA_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 9:52	40301	TAMA_T3	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/20/2025 9:53	40302	TAMA_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 9:53	40301	TAMA_T3	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/20/2025 9:53	40303	TAMA_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 9:54	67303	WYOM_T2	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
2/20/2025 9:56	46206	DANV_T2	12	7	-5	0.63	0.6	-0.03	2.64	2.2	1	1	0	1200	1200	0
2/20/2025 9:56	46203	DANV_T2	158	25	-133	0.75	0.38	-0.37	-0.56	-0.56	0	0	0	0	0	0
2/20/2025 9:56	46204	DANV_T2	18	7	-11	0.32	0.1	-0.22	0	0	0	0	0	0	0	0
2/20/2025 9:57	46203	DANV_T2	158	25	-133	0.75	0.38	-0.37	-0.56	-0.56	0	0	0	0	0	0
2/20/2025 9:57	46204	DANV_T2	18	7	-11	0.32	0.1	-0.22	0	0	0	0	0	0	0	0
2/20/2025 9:57	40301	TAMA_T3	2	1	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/20/2025 9:57	40303	TAMA_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 9:57	40302	TAMA_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 9:57	46206	DANV_T2	12	7	-5	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
2/20/2025 9:58	46203	DANV_T2	158	25	-133	0.75	0.38	-0.37	-1.12	-1.12	0	0	0	0	0	0
2/20/2025 9:58	46206	DANV_T2	12	7	-5	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
2/20/2025 9:58	10805	CHIH_T2	1	6	5	8.4	8.3	-0.1	-0.76	-0.75	1	1	0	600	600	0
2/20/2025 9:58	46204	DANV_T2	18	7	-11	0.32	0.1	-0.22	0	0	0	0	0	0	0	0
2/20/2025 9:59	46203	DANV_T2	158	25	-133	0.75	0.38	-0.37	-0.56	-0.56	0	0	0	0	0	0
2/20/2025 9:59	46206	DANV_T2	12	7	-5	0.63	0.6	-0.03	0	0	0	0	0	0	0	0
2/20/2025 9:59	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 9:59	46204	DANV_T2	18	7	-11	0.32	0.1	-0.22	0	0	0	0	0	0	0	0
2/20/2025 10:00	64801	MONE_T2	1	64	63	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/20/2025 10:00	46204	DANV_T2	10	1	-9	2.99	0	-2.99	0	0	0	0	0	0	0	0
2/20/2025 10:00	46203	DANV_T2	19	28	9	0.39	0.4	0.01	0	0	0	0	0	0	0	0
2/20/2025 10:00	46206	DANV_T2	5	2	-3	0.46	0	-0.46	5.28	4.4	2	2	0	2400	2400	0
2/20/2025 10:00	64802	MONE_T2	5	16	11	0.1	0.24	0.14	0	0	0	0	0	0	0	0
2/20/2025 10:01	53601	DALM_T2	0	1	1	0	0.6	0.6	-0.64	-0.69	1	1	0	900	900	0
2/20/2025 10:02	11804	FRAN_T1	0	5	5	0	0	0	1.18	1.09	0	0	0	0	0	0
2/20/2025 10:07	57403	SPAN_T1	0	0	0	0	0	0	0.67	0.59	0	0	0	0	0	0
2/20/2025 10:07	57401	SPAN_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
2/20/2025 10:08	13105	NHAM_T2	17	17	0	1.05	1.1	0.05	0	0	0	0	0	0	0	0
2/20/2025 10:08	13103	NHAM_T2	0	0	0	0	0	0	-1.48	-1.48	1	1	0	600	600	0
2/20/2025 10:09	57402	SPAN_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
2/20/2025 10:10	15702	TANN_T2	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
2/20/2025 10:10	15703	TANN_T2	1	1	0	8.2	8	-0.2	0	0	0	0	0	0	0	0
2/20/2025 10:10	67402	WAKE_T2	2	2	0	0.75	0.1	-0.65	0.64	0.62	1	1	0	600	600	0
2/20/2025 10:10	41602	CLEV_T1	0	5	5	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 10:11	15703	TANN_T2	1	1	0	8.2	8	-0.2	0	0	0	0	0	0	0	0
2/20/2025 10:11	15702	TANN_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
2/20/2025 10:12	53501	EVIL_T2	1	6	5	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
2/20/2025 10:12	67402	WAKE_T2	2	2	0	0.75	0.1	-0.65	0.64	0.62	1	1	0	600	600	0
2/20/2025 10:12	53502	EVIL_T2	11	11	0	1.23	1.8	0.57	0	0	0	0	0	0	0	0
2/20/2025 10:18	64801	MONE_T2	60	49	-11	0.2	0.18	-0.02	83.96	83.96	0	0	0	0	0	0
2/20/2025 10:18	65502	MOJO_T2	0	0	0	0	0	0	-1	-0.92	1	1	0	900	900	0
2/20/2025 10:18	64802	MONE_T2	15	13	-2	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
2/20/2025 10:19	65205	PRIN_T1	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
2/20/2025 10:20	65802	RTWN_T2	1	0	-1	0.1	0	-0.1	-0.08	-0.1	0	0	0	0	0	0
2/20/2025 10:21	65503	MOJO_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
2/20/2025 10:22	57101	SPHI_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
2/20/2025 10:22	57106	SPHI_T2	3	3	0	2.03	1.83	-0.2	0	0	0	0	0	0	0	0
2/20/2025 10:22	57103	SPHI_T2	0	0	0	0	0	0	-0.75	-0.74	1	1	0	600	600	0
2/20/2025 10:22	65502	MOJO_T2	0	0	0	0	0	0	-0.92	-1.04	1	1	0	900	900	0
2/20/2025 10:22	57104	SPHI_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
2/20/2025 10:24	57101	SPHI_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
2/20/2025 10:24	57106	SPHI_T2	3	3	0	2.03	1.83	-0.2	0	0	0	0	0	0	0	0
2/20/2025 10:24	57104	SPHI_T2	0	3	3	0	0.2	0.2	-1.57	-1.57	1	1	0	900	900	0
2/20/2025 10:25	57103	SPHI_T2	0	0	0	0	0	0	-0.75	-0.74	1	1	0	600	600	0
2/20/2025 10:25	57101	SPHI_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
2/20/2025 10:25	57106	SPHI_T2	3	3	0	2.03	1.83	-0.2	0	0	0	0	0	0	0	0
2/20/2025 10:25	57104	SPHI_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
2/20/2025 10:25	52102	MEIS_T1	2	0	-2	1.65	0	-1.65	0	0	1	1	0	450	450	0
2/20/2025 10:25	52101	MEIS_T1	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
2/20/2025 10:26	57103	SPHI_T2	0	0	0	0	0	0	-0.75	-0.74	1	1	0	600	600	0
2/20/2025 10:26	57106	SPHI_T2	3	3	0	2.03	1.83	-0.2	0	0	0	0	0	0	0	0
2/20/2025 10:26	57104	SPHI_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
2/20/2025 10:26	57101	SPHI_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
2/20/2025 10:28	24701	FLND_T2	31	36	5	0.72	0.67	-0.05	0	0	0	0	0	0	0	0
2/20/2025 10:28	61506	EPET_T2	0	0	0	0	0	0	-0.69	-0.71	1	1	0	900	900	0
2/20/2025 10:28	24702	FLND_T2	0	3	3	0	0.2	0.2	0.11	0.05	1	1	0	1200	1200	0
2/20/2025 10:30	10801	CHIH_T1	1	1	0	4	2	-2	-1.7	-1.69	3	3	0	2100	2100	0
2/20/2025 10:34	43202	MVIL_T2	2	1	-1	0.15	0.2	0.05	-0.45	-0.45	0	0	0	0	0	0
2/20/2025 10:36	55001	NEWP_T1	0	1	1	0	0.1	0.1	-0.73	-0.76	1	1	0	600	600	0
2/20/2025 10:36	55002	NEWP_T1	3	4	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
2/20/2025 10:38	55001	NEWP_T1	0	1	1	0	0.1	0.1	-0.76	-0.75	1	1	0	600	600	0
2/20/2025 10:38	55002	NEWP_T1	3	4	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
2/20/2025 10:43	61801	EELI_T2	2	2	0	1	0.95	-0.05	0	0	0	0	0	0	0	0
2/20/2025 10:43	24202	PROV_T4	0	0	0	0	0	0	-0.64	-0.62	1	1	0	1200	1200	0
2/20/2025 10:43	61802	EELI_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
2/20/2025 10:44	61801	EELI_T2	2	2	0	1	0.95	-0.05	-0.1	-0.09	0	0	0	0	0	0
2/20/2025 10:45	63801	HEMP_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
2/20/2025 10:45	63803	HEMP_T1	1	23	22	0.2	0.21	0.01	0.17	0.15	0	0	0	0	0	0
2/20/2025 10:45	63802	HEMP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/20/2025 10:45	63804	HEMP_T1	2	2	0	3.6	6.5	2.9	0	0	0	0	0	0	0	0
2/20/2025 10:45	61802	EELI_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
2/20/2025 10:45	61801	EELI_T2	2	2	0	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
2/20/2025 10:46	61802	EELI_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
2/20/2025 10:46	61801	EELI_T2	2	2	0	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
2/20/2025 10:49	58202	NEWV_T1	0	0	0	0	0	0	0.03	-0.02	0	0	0	0	0	0
2/20/2025 10:49	58201	NEWV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 10:50	58202	NEWV_T1	0	0	0	0	0	0	0.03	-0.02	0	0	0	0	0	0
2/20/2025 10:50	58201	NEWV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 10:50	65702	RVIL_T2	0	0	0	0	0	0	-1.31	-1.28	1	1	0	600	600	0
2/20/2025 10:51	45002	LIME_2	1	1	0	3.7	3.4	-0.3	0	0	0	0	0	0	0	0
2/20/2025 10:51	45003	LIME_2	58	60	2	0.93	0.73	-0.2	0.65	0.54	0	0	0	0	0	0
2/20/2025 10:51	45001	LIME_2	34	34	0	0.84	0.71	-0.13	0	0	0	0	0	0	0	0
2/20/2025 10:53	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/20/2025 10:53	41902	REED_T1	2	5	3	0.25	0.8	0.55	0.44	0.42	1	1	0	900	900	0
2/20/2025 10:53	65601	QVIL_T2	25	27	2	0.15	0.18	0.03	0	0	0	0	0	0	0	0
2/20/2025 10:53	65604	QVIL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/20/2025 10:53	41903	REED_T1	3	5	2	0.13	0.4	0.27	0	0	0	0	0	0	0	0
2/20/2025 10:53	65602	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/20/2025 10:54	45003	LIME_2	58	60	2	0.93	0.73	-0.2	0.65	0.54	0	0	0	0	0	0
2/20/2025 10:54	45002	LIME_2	1	1	0	3.7	3.4	-0.3	0	0	0	0	0	0	0	0
2/20/2025 10:54	45001	LIME_2	34	34	0	0.84	0.71	-0.13	0	0	0	0	0	0	0	0
2/20/2025 10:55	65702	RVIL_T2	0	0	0	0	0	0	-1.28	-1.33	1	1	0	600	600	0
2/20/2025 10:55	65601	QVIL_T2	25	27	2	0.15	0.18	0.03	-0.78	-0.82	1	1	0	900	900	0
2/20/2025 10:55	65602	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/20/2025 10:55	65604	QVIL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/20/2025 10:56	25801	SUTR_T2	4	11	7	5.05	3.23	-1.82	-0.48	-0.46	0	0	0	0	0	0
2/20/2025 10:58	40501	CRES_T2	7	14	7	0.23	0.32	0.09	0	0	0	0	0	0	0	0
2/20/2025 10:58	40201	BEGA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/20/2025 10:59	40501	CRES_T2	7	14	7	0.23	0.32	0.09	0	0	0	0	0	0	0	0
2/20/2025 11:03	40201	BEGA_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
2/20/2025 11:14	11104	EGYP_T1	4	11	7	0.83	0.48	-0.35	0	0	0	0	0	0	0	0
2/20/2025 11:14	40501	CRES_T2	9	11	2	0.31	0.32	0.01	0	0	0	0	0	0	0	0
2/20/2025 11:17	47101	MARL_T1	17	19	2	1.46	1.35	-0.11	0	0	0	0	0	0	0	0
2/20/2025 11:17	47104	MARL_T1	0	0	0	0	0	0	-2.09	-2.08	0	0	0	0	0	0
2/20/2025 11:18	26703	HEML_T1	22	14	-8	0.7	0.77	0.07	-0.55	-0.51	1	1	0	600	600	0
2/20/2025 11:18	26701	HEML_T1	3	5	2	1.33	0.75	-0.58	0	0	0	0	0	0	0	0
2/20/2025 11:20	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/20/2025 11:20	42302	MOWR_T2	17	25	8	0.12	0.18	0.06	0	0	0	0	0	0	0	0
2/20/2025 11:21	65601	QVIL_T2	17	52	35	0.18	0.28	0.1	0	0	0	0	0	0	0	0
2/20/2025 11:21	65602	QVIL_T2	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
2/20/2025 11:21	65603	QVIL_T2	0	0	0	0	0	0	1.2	1.53	0	0	0	0	0	0
2/20/2025 11:21	42302	MOWR_T2	17	25	8	0.12	0.18	0.06	-0.44	-0.46	0	0	0	0	0	0
2/20/2025 11:21	65604	QVIL_T2	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
2/20/2025 11:22	45003	LIME_2	56	56	0	0.74	0.49	-0.25	0.58	0.6	0	0	0	0	0	0
2/20/2025 11:22	45001	LIME_2	22	24	2	0.69	0.67	-0.02	0	0	0	0	0	0	0	0
2/20/2025 11:22	45002	LIME_2	1	1	0	3.4	4.8	1.4	0	0	0	0	0	0	0	0
2/20/2025 11:24	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
2/20/2025 11:24	52101	MEIS_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/20/2025 11:29	20601	GRWO_T2	145	134	-11	0.84	0.61	-0.23	0.65	0.61	0	0	0	0	0	0
2/20/2025 11:29	20602	GRWO_T2	1	3	2	0.1	0.7	0.6	0	0	0	0	0	0	0	0
2/20/2025 11:29	20603	GRWO_T2	28	28	0	0.61	0.45	-0.16	0	0	0	0	0	0	0	0
2/20/2025 11:31	20602	GRWO_T2	1	13	12	0.7	0.33	-0.37	0	0	0	0	0	0	0	0
2/20/2025 11:31	20603	GRWO_T2	24	27	3	0.46	0.63	0.17	0	0	0	0	0	0	0	0
2/20/2025 11:31	20601	GRWO_T2	123	146	23	0.61	0.62	0.01	0.65	0.61	0	0	0	0	0	0
2/20/2025 11:32	17802	GILB_T1	0	1	1	0	0	0	0.25	0.25	0	0	0	0	0	0
2/20/2025 11:33	20602	GRWO_T2	1	13	12	0.7	0.33	-0.37	0	0	0	0	0	0	0	0
2/20/2025 11:33	20603	GRWO_T2	24	27	3	0.46	0.63	0.17	0	0	0	0	0	0	0	0
2/20/2025 11:33	20601	GRWO_T2	123	146	23	0.61	0.62	0.01	0	0	0	0	0	0	0	0
2/20/2025 11:35	44201	POIN_T1	0	0	0	0	0	0	-2.69	-2.78	4	4	0	4200	4200	0
2/20/2025 11:38	45002	LIME_2	1	1	0	4.8	4.6	-0.2	0	0	0	0	0	0	0	0
2/20/2025 11:38	45003	LIME_2	56	41	-15	0.84	0.42	-0.42	0.6	0.68	0	0	0	0	0	0
2/20/2025 11:38	45001	LIME_2	14	24	10	0.69	0.79	0.1	0	0	0	0	0	0	0	0
2/20/2025 11:41	15704	TANN_T1	3	15	12	0.43	0.58	0.15	0	0	0	0	0	0	0	0
2/20/2025 11:41	15701	TANN_T1	2	2	0	2.65	2.65	0	0.22	0.26	0	0	0	0	0	0
2/20/2025 11:44	10801	OHIH_T1	1	1	0	0.6	0.5	-0.1	-1.78	-1.69	3	3	0	2100	2100	0
2/20/2025 11:53	54201	PENN_T1	88	91	3	0.36	0.43	0.07	-1.39	-1.36	0	0	0	0	0	0
2/20/2025 11:53	54203	PENN_T1	18	23	5	0.61	0.62	0.01	0.14	0.1	0	0	0	0	0	0
2/20/2025 11:55	54203	PENN_T1	18	23	5	0.61	0.62	0.01	0.14	0.1	0	0	0	0	0	0
2/20/2025 11:55	54201	PENN_T1	88	91	3	0.36	0.43	0.07	0	0	0	0	0	0	0	0
2/20/2025 11:56	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 11:56	45501	DERR_T2	0	1	1	0	0	0	0.72	0.72	2	2	0	1800	1800	0
2/20/2025 11:57	60201	ATGL_T2	9	49	40	0.37	0.27	-0.1	0.25	0.09	0	0	0	0	0	0
2/20/2025 11:57	54201	PENN_T1	88	91	3	0.36	0.43	0.07	-1.39	-1.36	0	0	0	0	0	0
2/20/2025 11:57	54203	PENN_T1	18	23	5	0.61	0.62	0.01	0	0	0	0	0	0	0	0
2/20/2025 11:58	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 11:58	45501	DERR_T2	0	1	1	0	0	0	0.72	0.72	2	2	0	1800	1800	0
2/20/2025 12:04	52403	GRPA_T2	18	25	7	0.59	0.93	0.34	-0.75	-0.78	0	0	0	0	0	0
2/20/2025 12:04	52402	GRPA_T2	72	83	11	0.84	0.87	0.03	0	0	0	0	0	0	0	0
2/20/2025 12:04	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 12:05	44201	POIN_T1	0	123	123	0	0.36	0.36	-1.31	-2.05	1	1	0	1200	1200	0
2/20/2025 12:15	41301	FISH_T1	1	1	0	1.3	1.4	0.1	-0.68	-0.67	0	0	0	0	0	0
2/20/2025 12:15	45802	HEGI_T2	26	47	21	0.53	1.6	1.07	0	0	0	0	0	0	0	0
2/20/2025 12:15	41305	FISH_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 12:16	26702	HEMI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 12:16	26704	HEMI_T2	0	0	0	0	0	0	-1.63	-1.64	1	1	0	1200	1200	0
2/20/2025 12:17	58706	ROSE_T2	1	1	0	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
2/20/2025 12:17	58701	ROSE_T2	0	0	0	0	0	0	-0.17	-0.19	1	1	0	600	600	0
2/20/2025 12:23	66502	SMAN_T2	0	0	0	0	0	0	0.95	0.92	0	0	0	0	0	0
2/20/2025 12:25	66503	SMAN_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
2/20/2025 12:26	40505	CRES_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
2/20/2025 12:26	40503	CRES_T1	2	2	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/20/2025 12:27	40503	CRES_T1	2	2	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/20/2025 12:27	40505	CRES_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
2/20/2025 12:28	40503	CRES_T1	2	2	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/20/2025 12:28	40505	CRES_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
2/20/2025 12:29	40503	CRES_T1	2	2	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/20/2025 12:29	40505	CRES_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0
2/20/2025 12:33	42302	MOWR_T2	24	19	-5	0.16	0.23	0.07	-0.43	-0.41	0	0	0	0	0	0
2/20/2025 12:35	42302	MOWR_T2	24	19	-5	0.16	0.23	0.07	0	0	0	0	0	0	0	0
2/20/2025 12:35	42301	MOWR_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
2/20/2025 12:35	58202	NEWV_T1	3	2	-1	0.17	0.1	-0.07	-0.21	-0.18	0	0	0	0	0	0
2/20/2025 12:44	11904	ETEX_T2	0	0	0	0	0	0	-1.28	-1.28	0	0	0	0	0	0
2/20/2025 12:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 12:46	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 12:47	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 12:50	65602	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/20/2025 12:50	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 12:50	65604	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/20/2025 12:50	65601	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/20/2025 12:52	45002	LIME_2	1	1	0	5.2	4.6	-0.6	0.76	0.8	0	0	0	0	0	0
2/20/2025 12:52	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 12:52	42302	MOWR_T2	19	14	-5	0.23	0.11	-0.12	0	0	0	0	0	0	0	0
2/20/2025 12:52	45003	LIME_2	41	58	17	0.69	1.28	0.59	0	0	0	0	0	0	0	0
2/20/2025 12:52	45001	LIME_2	14	28	14	0.96	0.82	-0.14	0	0	0	0	0	0	0	0
2/20/2025 13:04	28805	LAKE_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
2/20/2025 13:05	60501	NMAN_T2	0	13	13	0	0.14	0.14	0	0	0	0	0	0	0	0
2/20/2025 13:05	40602	PIGR_T1	3	4	1	0.23	0.38	0.15	0	0	0	0	0	0	0	0
2/20/2025 13:05	40601	PIGR_T1	134	184	50	0.29	0.44	0.15	0	0	0	0	0	0	0	0
2/20/2025 13:05	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 13:06	40601	PIGR_T1	134	184	50	0.29	0.44	0.15	0	0	0	0	0	0	0	0
2/20/2025 13:06	40602	PIGR_T1	3	4	1	0.23	0.38	0.15	-0.86	-0.83	0	0	0	0	0	0
2/20/2025 13:08	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 13:08	40602	PIGR_T1	3	4	1	0.23	0.38	0.15	0	0	0	0	0	0	0	0
2/20/2025 13:08	60501	NMAN_T2	0	13	13	0	0.14	0.14	0	0	0	0	0	0	0	0
2/20/2025 13:08	40601	PIGR_T1	134	184	50	0.29	0.44	0.15	0.28	0.41	0	0	0	0	0	0
2/20/2025 13:09	60502	NMAN_T2	0	0	0	0	0	0	-0.02	-0.12	0	0	0	0	0	0
2/20/2025 13:09	40602	PIGR_T1	3	4	1	0.23	0.38	0.15	0	0	0	0	0	0	0	0
2/20/2025 13:09	60501	NMAN_T2	0	13	13	0	0.14	0.14	0	0	0	0	0	0	0	0
2/20/2025 13:09	40601	PIGR_T1	134	184	50	0.29	0.44	0.15	0	0	0	0	0	0	0	0
2/20/2025 13:10	40602	PIGR_T1	3	4	1	0.23	0.38	0.15	0	0	0	0	0	0	0	0
2/20/2025 13:10	40601	PIGR_T1	134	184	50	0.29	0.44	0.15	0	0	0	0	0	0	0	0
2/20/2025 13:15	22803	HAUT_T2	53	61	8	1.44	1.38	-0.06	0	0	0	0	0	0	0	0
2/20/2025 13:15	22805	HAUT_T2	102	111	9	0.97	0.9	-0.07	0	0	0	0	0	0	0	0
2/20/2025 13:21	64101	REFR_T1	1	0	-1	3	0	-3	0.09	0.11	0	0	0	0	0	0
2/20/2025 13:22	64101	REFR_T1	1	0	-1	3	0	-3	0.09	0.11	0	0	0	0	0	0
2/20/2025 13:23	64101	REFR_T1	1	0	-1	3	0	-3	0.18	0.22	0	0	0	0	0	0
2/20/2025 13:24	64101	REFR_T1	1	0	-1	3	0	-3	0.18	0.22	0	0	0	0	0	0
2/20/2025 13:25	64101	REFR_T1	1	0	-1	3	0	-3	0.09	0.11	0	0	0	0	0	0
2/20/2025 13:26	64101	REFR_T1	1	0	-1	3	0	-3	0.09	0.11	0	0	0	0	0	0
2/20/2025 13:30	47901	HRDG_T1	0	0	0	0	0	0	1.82	1.65	0	0	0	0	0	0
2/20/2025 13:36	64901	MILL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/20/2025 13:36	64904	MILL_T1	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
2/20/2025 13:36	59003	MIFF_T1	0	0	0	0	0	0	-0.99	-0.26	0	0	0	0	0	0
2/20/2025 13:37	57401	SPAN_T1	1	2	1	0.2	0.2	0	-1.74	-1.64	2	2	0	1200	1200	0
2/20/2025 13:37	57403	SPAN_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/20/2025 13:38	57401	SPAN_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/20/2025 13:38	57403	SPAN_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/20/2025 13:46	16102	BING_T2	1	1	0	4.6	6.1	1.5	0	0	0	0	0	0	0	0
2/20/2025 13:46	16101	BING_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
2/20/2025 14:05	63601	LETO_T1	5	5	0	0.6	0.8	0.2	0.88	0.85	0	0	0	0	0	0
2/20/2025 14:06	64101	REFR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/20/2025 14:07	63601	LETO_T1	5	5	0	0.6	0.8	0.2	0.85	0.94	0	0	0	0	0	0
2/20/2025 14:07	56501	ROCK_T2	2	2	0	1.15	0.85	-0.3	-0.83	-0.84	0	0	0	0	0	0
2/20/2025 14:08	64101	REFR_T1	1	0	-1	0.2	0	-0.2	0.11	0.09	0	0	0	0	0	0
2/20/2025 14:09	56501	ROCK_T2	2	2	0	1.15	0.85	-0.3	-1.66	-1.68	0	0	0	0	0	0
2/20/2025 14:10	56501	ROCK_T2	2	2	0	1.15	0.85	-0.3	-1.66	-1.68	0	0	0	0	0	0
2/20/2025 14:17	66302	MCGO_T2	1	1	0	0.2	0.2	0	-1.21	-1.35	1	1	0	600	600	0
2/20/2025 14:17	66303	MCGO_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/20/2025 14:18	47901	HRDG_T1	0	0	0	0	0	0	1.87	1.87	0	0	0	0	0	0
2/20/2025 14:19	66302	MCGO_T2	1	1	0	0.2	0.2	0	-1.21	-1.35	1	1	0	600	600	0
2/20/2025 14:19	66303	MCGO_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/20/2025 14:21	45702	LIND_T2	1	1	0	1.6	1.6	0	-0.36	-0.38	0	0	0	0	0	0
2/20/2025 14:22	66303	MCGO_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/20/2025 14:22	66302	MCGO_T2	1	1	0	0.2	0.2	0	-2.69	-2.64	2	2	0	1200	1200	0
2/20/2025 14:26	22001	BOHE_T1	0	0	0	0	0	0	-0.06	-0.05	1	1	0	600	600	0
2/20/2025 14:26	22003	BOHE_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/20/2025 14:37	52101	MEIS_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
2/20/2025 14:51	45001	LIME_2	10	21	11	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
2/20/2025 14:51	45003	LIME_2	4	9	5	1.98	3.2	1.22	0.43	0.43	0	0	0	0	0	0
2/20/2025 14:51	45002	LIME_2	1	1	0	5	4.5	-0.5	0	0	0	0	0	0	0	0
2/20/2025 14:54	45001	LIME_2	10	21	11	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
2/20/2025 14:54	45003	LIME_2	4	9	5	1.98	3.2	1.22	0.43	0.43	0	0	0	0	0	0
2/20/2025 14:54	45002	LIME_2	1	1	0	5	4.5	-0.5	0	0	0	0	0	0	0	0
2/20/2025 14:55	45002	LIME_2	1	1	0	5	4.5	-0.5	0	0	0	0	0	0	0	0
2/20/2025 14:55	45001	LIME_2	10	21	11	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
2/20/2025 14:55	45003	LIME_2	4	9	5	1.98	3.2	1.22	0.43	0.43	0	0	0	0	0	0
2/20/2025 14:56	45002	LIME_2	1	1	0	5	4.5	-0.5	0	0	0	0	0	0	0	0
2/20/2025 14:56	45001	LIME_2	10	21	11	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
2/20/2025 14:56	45003	LIME_2	4	9	5	1.98	3.2	1.22	0.86	0.86	0	0	0	0	0	0
2/20/2025 14:57	54503	ENOL_T2	0	0	0	0	0	0	-0.36	-0.31	1	1	0	600	600	0
2/20/2025 14:57	54505	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/20/2025 15:14	15603	NSTR_T2	0	0	0	0	0	0	-0.93	-0.9	0	0	0	0	0	0
2/20/2025 15:15	17802	GILB_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
2/20/2025 15:16	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 15:17	17802	GILB_T1	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
2/20/2025 15:19	45801	HEGI_T1	0	0	0	0	0	0	-0.18	-0.17	1	1	0	900	900	0
2/20/2025 15:26	60201	ATGL_T2	12	10	-2	0.36	0.38	0.02	0.31	0.29	0	0	0	0	0	0
2/20/2025 15:34	57106	SPHI_T2	3	3	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
2/20/2025 15:34	57101	SPHI_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
2/20/2025 15:34	57104	SPHI_T2	3	4	1	6.17	1.3	-4.87	0	0	0	0	0	0	0	0
2/20/2025 15:34	57103	SPHI_T2	0	0	0	0	0	0	-0.1	-0.14	0	0	0	0	0	0
2/20/2025 15:38	55001	NEWP_T1	4	14	10	0.75	0.3	-0.45	0	0	0	0	0	0	0	0
2/20/2025 15:38	55002	NEWP_T1	4	5	1	0.88	0.62	-0.26	-0.14	-0.16	0	0	0	0	0	0
2/20/2025 15:45	61304	EARL_T1	0	0	0	0	0	0	-0.63	-0.56	1	1	0	600	600	0
2/20/2025 15:48	20603	GRWO_T2	19	29	10	0.95	1.32	0.37	-0.45	-0.43	1	1	0	900	900	0
2/20/2025 15:48	20601	GRWO_T2	6	4	-2	0.62	0.67	0.05	0	0	0	0	0	0	0	0
2/20/2025 15:49	55002	NEWP_T1	5	4	-1	0.62	0.8	0.18	-0.14	-0.16	0	0	0	0	0	0
2/20/2025 15:49	55001	NEWP_T1	6	14	8	0.3	0.43	0.13	0	0	0	0	0	0	0	0
2/20/2025 15:53	43801	SWIL_T1	9	9	0	0.78	0.77	-0.01	0	0	0	0	0	0	0	0
2/20/2025 15:53	43802	SWIL_T1	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/20/2025 15:54	50501	MECH_T1	4	4	0	0.55	0.58	0.03	0	0	0	0	0	0	0	0
2/20/2025 15:54	50506	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 15:54	50502	MECH_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
2/20/2025 15:56	67201	TEHI_T1	1	9	8	0.1	0.14	0.04	-0.28	-0.22	1	1	0	900	900	0
2/20/2025 15:56	67203	TEHI_T1	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
2/20/2025 16:01	64801	MONE_T2	101	14	-87	0.28	0.14	-0.14	0	0	0	0	0	0	0	0
2/20/2025 16:01	64802	MONE_T2	57	11	-46	0.3	0.21	-0.09	-0.01	-0.01	0	0	0	0	0	0
2/20/2025 16:22	13104	NHAM_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 16:22	13101	NHAM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 16:31	40504	CRES_T1	0	0	0	0	0	0	-1.69	-1.65	0	0	0	0	0	0
2/20/2025 16:35	54701	NEBL_T1	1	3	2	0.7	0.33	-0.37	0	0	1	1	0	600	600	0
2/20/2025 16:37	65702	RVIL_T2	0	0	0	0	0	0	-1.37	-1.4	1	1	0	600	600	0
2/20/2025 16:37	45002	LIME_2	2	4	2	1.8	1.27	-0.53	0.84	0.84	0	0	0	0	0	0
2/20/2025 16:37	45003	LIME_2	57	64	7	0.95	1.15	0.2	0	0	0	0	0	0	0	0
2/20/2025 16:37	45001	LIME_2	15	35	20	0.48	0.77	0.29	0	0	0	0	0	0	0	0
2/20/2025 16:38	45001	LIME_2	15	35	20	0.48	0.77	0.29	0	0	0	0	0	0	0	0
2/20/2025 16:38	45003	LIME_2	57	64	7	0.95	1.15	0.2	0	0	0	0	0	0	0	0
2/20/2025 16:38	45002	LIME_2	2	4	2	1.8	1.27	-0.53	0.84	0.84	0	0	0	0	0	0
2/20/2025 16:39	65702	RVIL_T2	0	0	0	0	0	0	-1.37	-1.4	1	1	0	600	600	0
2/20/2025 16:42	53502	EVIL_T2	0	11	11	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 16:44	60801	BUCK_T1	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
2/20/2025 16:49	45802	HEGI_T2	14	19	5	0.42	0.48	0.06	1.02	1.04	0	0	0	0	0	0
2/20/2025 16:55	65601	QVIL_T2	0	0	0	0	0	0	0.12	-0.81	0	1	1	0	900	900
2/20/2025 17:02	53902	HALI_T2	1	1	0	4	4.3	0.3	0	0	0	0	0	0	0	0
2/20/2025 17:02	53901	HALI_T2	1	0	-1	0.1	0	-0.1	-1.16	-1.15	0	0	0	0	0	0
2/20/2025 17:04	53803	MBRG_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
2/20/2025 17:07	54505	ENOL_T2	1	1	0	0.2	0.2	0	-0.65	-0.65	1	1	0	600	600	0
2/20/2025 19:08	16101	BING_T2	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
2/20/2025 19:08	16103	BING_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/20/2025 19:08	16102	BING_T2	4	3	-1	1.48	1.97	0.49	0	0	0	0	0	0	0	0
2/20/2025 19:14	17802	GILB_T1	2	2	0	0.2	0.2	0	0.44	0.37	0	0	0	0	0	0
2/20/2025 19:15	46802	HEPB_T1	3	8	5	0.47	0.29	-0.18	-0.98	-0.96	0	0	0	0	0	0
2/20/2025 19:18	16102	BING_T2	1	6	5	4.9	1.1	-3.8	-1.21	-1.2	1	1	0	1200	1200	0
2/20/2025 19:18	16103	BING_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/20/2025 19:19	46203	DANV_T2	290	231	-59	0.75	0.69	-0.06	0	0	0	0	0	0	0	0
2/20/2025 19:19	46204	DANV_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/20/2025 19:19	46201	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/20/2025 19:19	46206	DANV_T2	0	0	0	0	0	0	0.66	0.53	2	2	0	2100	2100	0
2/20/2025 19:20	44505	HAMI_T2	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
2/20/2025 19:20	44502	HAMI_T2	1	2	1	2.3	2.5	0.2	0	0	0	0	0	0	0	0
2/20/2025 19:21	26701	HEML_T1	25	31	6	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
2/20/2025 19:21	45701	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 19:21	26703	HEML_T1	26	31	5	0.61	0.58	-0.03	-0.45	-0.46	1	1	0	600	600	0
2/20/2025 19:21	45702	LIND_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/20/2025 19:22	11102	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 19:22	11103	EGYP_T1	4	0	-4	0.9	0	-0.9	0	0	0	0	0	0	0	0
2/20/2025 19:22	11104	EGYP_T1	17	17	0	0.31	0.7	0.39	-0.2	-0.14	1	1	0	900	900	0
2/20/2025 19:23	45701	LIND_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
2/20/2025 19:23	45702	LIND_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/20/2025 19:24	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/20/2025 19:24	29402	BELT_T1	1	1	0	7.7	8	0.3	0	0	0	0	0	0	0	0
2/20/2025 19:25	42301	MOWR_T2	1	1	0	0.2	0.1	-0.1	-0.29	-0.3	0	0	0	0	0	0
2/20/2025 19:25	42302	MOWR_T2	8	11	3	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
2/20/2025 19:25	25801	SUTR_T2	9	6	-3	3.14	4.12	0.98	-0.42	-0.43	0	0	0	0	0	0
2/20/2025 19:27	21606	EYNO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 19:27	21601	EYNO_T1	58	76	18	0.63	0.55	-0.08	0	0	0	0	0	0	0	0
2/20/2025 19:28	15701	TANN_T1	3	3	0	1.97	1.6	-0.37	0.31	0.3	0	0	0	0	0	0
2/20/2025 19:28	42302	MOWR_T2	8	11	3	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
2/20/2025 19:28	42301	MOWR_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/20/2025 19:28	15704	TANN_T1	74	55	-19	0.92	0.73	-0.19	0	0	0	0	0	0	0	0
2/20/2025 19:29	42701	AUGU_T1	8	16	8	1.36	0.72	-0.64	0	0	0	0	0	0	0	0
2/20/2025 19:30	22003	BOHE_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
2/20/2025 19:30	17802	GILB_T1	2	2	0	0.3	0.2	-0.1	0.37	0.4	0	0	0	0	0	0
2/20/2025 19:30	22001	BOHE_T1	0	0	0	0	0	0	-0.06	-0.07	1	1	0	600	600	0
2/20/2025 19:31	42301	MOWR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/20/2025 19:31	42302	MOWR_T2	10	13	3	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
2/20/2025 19:31	15703	TANN_T2	1	1	0	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
2/20/2025 19:31	15702	TANN_T2	7	14	7	0.17	0.44	0.27	-0.02	0.01	0	0	0	0	0	0
2/20/2025 19:32	14402	SSLA_T1	12	12	0	1.07	0.88	-0.19	0	0	0	0	0	0	0	0
2/20/2025 19:32	11101	EGYP_T1	0	0	0	0	0	0	-0.58	-0.57	1	1	0	1200	1200	0
2/20/2025 19:32	11904	ETEX_T2	0	0	0	0	0	0	-0.63	-0.68	0	0	0	0	0	0
2/20/2025 19:32	14403	SSLA_T1	9	11	2	1.42	0.93	-0.49	0	0	0	0	0	0	0	0
2/20/2025 19:32	11102	EGYP_T1	1	7	6	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/20/2025 19:32	11104	EGYP_T1	2	17	15	0.7	1.23	0.53	0	0	0	0	0	0	0	0
2/20/2025 19:33	53902	HALI_T2	1	1	0	4.3	4.6	0.3	0	0	0	0	0	0	0	0
2/20/2025 19:33	29402	BELT_T1	1	1	0	7.9	8.2	0.3	0	0	0	0	0	0	0	0
2/20/2025 19:33	53901	HALI_T2	0	0	0	0	0	0	-1.27	-1.27	0	0	0	0	0	0
2/20/2025 19:33	40201	BEGA_T2	25	9	-16	0.49	0.44	-0.05	0	0	0	0	0	0	0	0
2/20/2025 19:35	43202	MVIL_T2	0	0	0	0	0	0	-0.57	-0.52	0	0	0	0	0	0
2/20/2025 19:35	41602	CLEV_T1	0	52	52	0	0.34	0.34	0	0	0	0	0	0	0	0
2/20/2025 19:35	40303	TAMA_T3	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/20/2025 19:35	40201	BEGA_T2	25	9	-16	0.49	0.44	-0.05	0	0	0	0	0	0	0	0
2/20/2025 19:35	40301	TAMA_T3	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/20/2025 19:35	43201	MVIL_T2	1	3	2	0.4	1.4	1	0	0	0	0	0	0	0	0
2/20/2025 19:35	40302	TAMA_T3	11	11	0	0.63	0.73	0.1	0.4	0.4	0	0	0	0	0	0
2/20/2025 19:36	44501	HAMI_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 19:36	45702	LIND_T2	1	1	0	0.6	0.6	0	-0.4	-0.38	0	0	0	0	0	0
2/20/2025 19:36	10805	CHHI_T2	16	15	-1	2.76	2.05	-0.71	-0.7	-0.75	1	1	0	600	600	0
2/20/2025 19:36	15601	NSTR_T2	149	87	-62	0.8	0.61	-0.19	0	0	0	0	0	0	0	0
2/20/2025 19:36	15603	NSTR_T2	2	0	-2	1.6	0	-1.6	-0.81	-0.81	0	0	0	0	0	0
2/20/2025 19:36	44505	HAMI_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
2/20/2025 19:36	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 19:36	41305	FISH_T1	1	4	3	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/20/2025 19:36	44201	POIN_T1	182	202	20	0.57	0.65	0.08	-2.45	-2.48	2	2	0	2100	2100	0
2/20/2025 19:36	44502	HAMI_T2	2	1	-1	1.6	2.5	0.9	0	0	0	0	0	0	0	0
2/20/2025 19:36	41301	FISH_T1	1	3	2	2.6	1.13	-1.47	0	0	0	0	0	0	0	0
2/20/2025 19:37	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 19:37	22803	HAUT_T2	51	73	22	1.08	0.89	-0.19	0	0	0	0	0	0	0	0
2/20/2025 19:37	22805	HAUT_T2	97	107	10	1.02	1.04	0.02	0	0	0	0	0	0	0	0
2/20/2025 19:37	26704	HEML_T2	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
2/20/2025 19:38	41901	REED_T1	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/20/2025 19:38	43202	MVIL_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
2/20/2025 19:38	11102	EGYP_T1	1	7	6	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/20/2025 19:38	43201	MVIL_T2	1	3	2	0.4	1.4	1	0	0	0	0	0	0	0	0
2/20/2025 19:38	41902	REED_T1	35	21	-14	0.6	0.38	-0.22	0.3	0.3	1	1	0	900	900	0
2/20/2025 19:38	11904	ETEX_T2	0	0	0	0	0	0	-0.68	-0.69	0	0	0	0	0	0
2/20/2025 19:38	25404	LAHA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/20/2025 19:38	25402	LAHA_T2	170	154	-16	0.75	0.67	-0.08	-0.29	-0.32	0	0	0	0	0	0
2/20/2025 19:38	11104	EGYP_T1	2	17	15	0.7	1.23	0.53	0	0	0	0	0	0	0	0
2/20/2025 19:39	45002	LIME_2	1	2	1	2.7	4	1.3	0	0	0	0	0	0	0	0
2/20/2025 19:39	60502	NMAN_T2	0	0	0	0	0	0	-0.1	-0.19	0	0	0	0	0	0
2/20/2025 19:39	45003	LIME_2	69	82	13	1.44	2.18	0.74	0.61	0.6	0	0	0	0	0	0
2/20/2025 19:39	53601	DALM_T2	1	1	0	0.8	0.5	-0.3	-1	-0.94	1	1	0	900	900	0
2/20/2025 19:39	45001	LIME_2	28	68	40	1.12	0.77	-0.35	0	0	0	0	0	0	0	0
2/20/2025 19:40	17802	GILB_T1	2	2	0	0.3	0.2	-0.1	0.4	0.38	0	0	0	0	0	0
2/20/2025 19:40	43202	MVIL_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
2/20/2025 19:40	10801	CHHI_T1	18	23	5	0.61	0.58	-0.03	-1.83	-1.82	3	3	0	2100	2100	0
2/20/2025 19:40	43201	MVIL_T2	1	3	2	0.4	1.4	1	0	0	0	0	0	0	0	0
2/20/2025 19:41	44501	HAMI_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 19:41	56501	ROCK_T2	4	2	-2	0.48	0.7	0.22	-1.31	-1.34	0	0	0	0	0	0
2/20/2025 19:41	44502	HAMI_T2	2	1	-1	1.6	2.5	0.9	0	0	0	0	0	0	0	0
2/20/2025 19:41	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 19:41	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 19:42	55001	NEWP_T1	0	0	0	0	0	0	-0.69	-0.12	0	0	0	0	0	0
2/20/2025 19:42	23402	HONE_T2	0	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0
2/20/2025 19:42	15703	TANN_T2	1	1	0	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
2/20/2025 19:42	23401	HONE_T2	10	8	-2	0.51	0.3	-0.21	-0.22	-0.29	0	0	0	0	0	0
2/20/2025 19:42	55002	NEWP_T1	4	4	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
2/20/2025 19:42	63804	HEMP_T1	1	1	0	6.2	6.1	-0.1	-0.64	-0.66	0	0	0	0	0	0
2/20/2025 19:42	15702	TANN_T2	7	14	7	0.17	0.44	0.27	0.01	-0.06	0	0	0	0	0	0
2/20/2025 19:42	14402	SSLA_T1	12	12	0	1.07	0.88	-0.19	0	0	0	0	0	0	0	0
2/20/2025 19:42	14403	SSLA_T1	9	11	2	1.42	0.93	-0.49	1.14	1.15	0	0	0	0	0	0
2/20/2025 19:42	10801	CHHI_T1	18	23	5	0.61	0.58	-0.03	-1.83	-1.82	3	3	0	2100	2100	0
2/20/2025 19:43	65503	MOJO_T2	0	0	0	0	0	0	0.09	0.13	0	0	0	0	0	0
2/20/2025 19:43	59301	MCAL_T1	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
2/20/2025 19:43	65502	MOJO_T2	0	34	34	0	0.11	0.11	0	0	0	0	0	0	0	0
2/20/2025 19:43	47901	HRDG_T1	0	0	0	0	0	0	1.6	1.65	0	0	0	0	0	0
2/20/2025 19:43	44201	POIN_T1	182	202	20	0.57	0.65	0.08	-2.45	-2.48	2	2	0	2100	2100	0
2/20/2025 19:43	59302	MCAL_T1	0	0	0	0	0	0	-0.72	-0.77	1	1	0	600	600	0
2/20/2025 19:44	40302	TAMA_T3	11	11	0	0.63	0.73	0.1	0	0	0	0	0	0	0	0
2/20/2025 19:44	13103	NHAM_T2	1	3	2	0.1	0	-0.1	-1.5	-1.5	1	1	0	600	600	0
2/20/2025 19:44	16103	BING_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/20/2025 19:44	46203	DANV_T2	223	167	-56	0.7	0.68	-0.02	-1.46	-1.43	0	0	0	0	0	0
2/20/2025 19:44	66505	SMAN_T2	2	3	1	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
2/20/2025 19:44	16102	BING_T2	3	6	3	1.97	1.1	-0.87	0	0	0	0	0	0	0	0
2/20/2025 19:44	40501	CRES_T2	5	6	1	0.22	0.28	0.06	0	0	0	0	0	0	0	0
2/20/2025 19:44	40303	TAMA_T3	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/20/2025 19:44	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
2/20/2025 19:44	42302	MOWR_T2	10	13	3	0.3	0.27	-0.03	0.76	0.71	0	0	0	0	0	0
2/20/2025 19:44	10801	CHHI_T1	18	23	5	0.61	0.58	-0.03	-1.83	-1.82	3	3	0	2100	2100	0
2/20/2025 19:44	13105	NHAM_T2	17	17	0	1.02	0.39	-0.63	0	0	0	0	0	0	0	0
2/20/2025 19:44	40301	TAMA_T3	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/20/2025 19:44	42301	MOWR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/20/2025 19:44	46204	DANV_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/20/2025 19:45	40505	CRES_T1	0	0	0	0	0	0	0.55	0.49	0	0	0	0	0	0
2/20/2025 19:45	22003	BOHE_T1	1	3	2	0.2	0.13	-0.07	0.06	0.06	0	0	0	0	0	0
2/20/2025 19:45	24703	FLND_T2	2	6	4	0.55	0.75	0.2	0	0	0	0	0	0	0	0
2/20/2025 19:45	45003	LIME_2	74	81	7	2.11	1.95	-0.16	0.61	0.6	0	0	0	0	0	0
2/20/2025 19:45	24702	FLND_T2	13	19	6	0.75	0.62	-0.13	-0.15	-0.14	1	1	0	1200	1200	0
2/20/2025 19:45	40503	CRES_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/20/2025 19:45	65502	MOJO_T2	34	125	91	0.11	0.14	0.03	-1.74	-1.73	1	1	0	900	900	0
2/20/2025 19:45	55101	WERT_T1	1	1	0	0.3	0	-0.3	-1.68	-1.68	2	2	0	1500	1500	0
2/20/2025 19:45	67303	WYOM_T2	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/20/2025 19:45	45001	LIME_2	64	47	-17	1.08	0.61	-0.47	0	0	0	0	0	0	0	0
2/20/2025 19:45	45002	LIME_2	1	2	1	3.6	5	1.4	0	0	0	0	0	0	0	0
2/20/2025 19:45	61506	EPET_T2	0	0	0	0	0	0	-1.07	-1.01	1	1	0	900	900	0
2/20/2025 19:45	24701	FLND_T2	15	49	34	0.63	0.62	-0.01	0	0	0	0	0	0	0	0
2/20/2025 19:46	24103	EHAZ_T1	12	7	-5	0.54	0	-0.54	0	0	0	0	0	0	0	0
2/20/2025 19:46	23401	HONE_T2	5	9	4	0.62	0.63	0.01	-0.22	-0.29	0	0	0	0	0	0
2/20/2025 19:46	24101	EHAZ_T1	75	95	20	1.81	1.26	-0.55	0	0	0	0	0	0	0	0
2/20/2025 19:46	41901	REED_T1	1	3	2	0.3	0.3	0	0	0	0	0	0	0	0	0
2/20/2025 19:46	11104	EGYP_T1	17	4	-13	0.52	0.78	0.26	-0.14	-0.19	1	1	0	900	900	0
2/20/2025 19:46	23402	HONE_T2	2	3	1	0.8	1.67	0.87	0	0	0	0	0	0	0	0
2/20/2025 19:46	11102	EGYP_T1	0	7	7	0	0.23	0.23	0	0	0	0	0	0	0	0
2/20/2025 19:46	24102	EHAZ_T1	27	20	-7	0.79	0.56	-0.23	0	0	0	0	0	0	0	0
2/20/2025 19:46	42301	MOWR_T2	1	1	0	0.1	0.2	0.1	-0.3	-0.25	0	0	0	0	0	0
2/20/2025 19:46	46203	DANV_T2	158	144	-14	0.65	0.69	0.04	-2.91	-2.86	0	0	0	0	0	0
2/20/2025 19:46	24104	EHAZ_T1	0	0	0	0	0	0	-0.79	-0.8	1	1	0	1200	1200	0
2/20/2025 19:46	46204	DANV_T2	1	3	2	0.9	0	-0.9	0	0	0	0	0	0	0	0
2/20/2025 19:46	42302	MOWR_T2	10	16	6	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
2/20/2025 19:46	24105	EHAZ_T1	25	24	-1	3.4	2.61	-0.79	0	0	0	0	0	0	0	0
2/20/2025 19:46	52502	PROG_T2	0	0	0	0	0	0	-0.24	-0.2	1	1	0	900	900	0
2/20/2025 19:46	45702	LIND_T2	1	1	0	0.6	0.6	0	-0.4	-0.38	0	0	0	0	0	0
2/20/2025 19:46	41902	REED_T1	16	20	4	0.43	0.58	0.15	0.3	0.3	1	1	0	900	900	0
2/20/2025 19:47	47101	MARL_T1	51	47	-4	0.95	0.83	-0.12	0	0	0	0	0	0	0	0
2/20/2025 19:47	45801	HEGI_T1	0	0	0	0	0	0	-0.1	-0.12	1	1	0	900	900	0
2/20/2025 19:47	20601	GRWO_T2	3	4	1	1.2	1.77	0.57	0	0	0	0	0	0	0	0
2/20/2025 19:47	54203	PENN_T1	18	18	0	0.66	0.91	0.25	0.68	0.71	0	0	0	0	0	0
2/20/2025 19:47	47901	HRDG_T1	0	0	0	0	0	0	1.6	1.65	0	0	0	0	0	0
2/20/2025 19:47	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 19:47	47203	FAXO_T2	1	1	0	0.2	0	-0.2	-0.33	-0.33	0	0	0	0	0	0
2/20/2025 19:47	20603	GRWO_T2	43	59	16	0.45	0.42	-0.03	0	0	0	0	0	0	0	0
2/20/2025 19:47	40602	PIGR_T1	26	1	-25	0.29	0.2	-0.09	0	0	0	0	0	0	0	0
2/20/2025 19:47	54201	PENN_T1	10	10	0	0.75	0.98	0.23	0	0	0	0	0	0	0	0
2/20/2025 19:47	40601	PIGR_T1	227	222	-5	0.46	0.41	-0.05	0	0	0	0	0	0	0	0
2/20/2025 19:47	42701	AUGU_T1	14	15	1	0.71	0.34	-0.37	0	0	0	0	0	0	0	0
2/20/2025 19:47	65802	RTWN_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
2/20/2025 19:47	47104	MARL_T1	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
2/20/2025 19:47	60502	NMAN_T2	0	0	0	0	0	0	-0.1	-0.19	0	0	0	0	0	0
2/20/2025 19:48	42301	MOWR_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/20/2025 19:48	45002	LIME_2	1	2	1	3.6	5	1.4	0	0	0	0	0	0	0	0
2/20/2025 19:48	66505	SMAN_T2	2	3	1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
2/20/2025 19:48	54201	PENN_T1	10	10	0	0.75	0.98	0.23	-0.51	-0.49	0	0	0	0	0	0
2/20/2025 19:48	53501	EVIL_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
2/20/2025 19:48	20601	GRWO_T2	3	4	1	1.2	1.77	0.57	0.09	0.14	0	0	0	0	0	0
2/20/2025 19:48	54701	NEBL_T1	2	2	0	0.4	0.2	-0.2	0	0	1	1	0	600	600	0
2/20/2025 19:48	52102	MEIS_T1	1	1	0	0.4	0	-0.4	0	0	1	1	0	450	450	0
2/20/2025 19:48	46206	DANV_T2	0	0	0	0	0	0	-0.09	-0.19	2	2	0	2100	2100	0
2/20/2025 19:48	57103	SPHI_T2	0	0	0	0	0	0	-0.73	-0.75	1	1	0	600	600	0
2/20/2025 19:48	63602	LETO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 19:48	53502	EVIL_T2	6	10	4	0.12	0	-0.12	0	0	0	0	0	0	0	0
2/20/2025 19:48	45003	LIME_2	74	81	7	2.11	1.95	-0.16	0.61	0.6	0	0	0	0	0	0
2/20/2025 19:48	54203	PENN_T1	18	18	0	0.66	0.91	0.25	0	0	0	0	0	0	0	0
2/20/2025 19:48	40505	CRES_T1	0	0	0	0	0	0	0.55	0.49	0	0	0	0	0	0
2/20/2025 19:48	20603	GRWO_T2	43	59	16	0.45	0.42	-0.03	0	0	0	0	0	0	0	0
2/20/2025 19:48	42302	MOWR_T2	10	16	6	0.27	0.26	-0.01	0.76	0.71	0	0	0	0	0	0
2/20/2025 19:48	40503	CRES_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/20/2025 19:48	63601	LETO_T1	2	3	1	0.1	0.4	0.3	0.04	-0.04	1	1	0	900	900	0
2/20/2025 19:48	15703	TANN_T2	1	1	0	7.7	7.7	0	0	0	0	0	0	0	0	0
2/20/2025 19:48	64101	REFR_T1	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
2/20/2025 19:48	57104	SPHI_T2	2	2	0	6.8	3.3	-3.5	0	0	0	0	0	0	0	0
2/20/2025 19:48	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
2/20/2025 19:48	46204	DANV_T2	1	3	2	0.9	0	-0.9	0	0	0	0	0	0	0	0
2/20/2025 19:48	45001	LIME_2	64	47	-17	1.08	0.61	-0.47	0	0	0	0	0	0	0	0
2/20/2025 19:48	46203	DANV_T2	158	144	-14	0.65	0.69	0.04	0	0	0	0	0	0	0	0
2/20/2025 19:48	15702	TANN_T2	8	14	6	0.44	0.3	-0.14	0.01	-0.06	0	0	0	0	0	0
2/20/2025 19:48	57106	SPHI_T2	3	3	0	0.97	1.4	0.43	0	0	0	0	0	0	0	0
2/20/2025 19:48	52101	MEIS_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
2/20/2025 19:49	63802	HEMP_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
2/20/2025 19:49	40602	PIGR_T1	26	1	-25	0.29	0.2	-0.09	0	0	0	0	0	0	0	0
2/20/2025 19:49	45001	LIME_2	64	47	-17	1.08	0.61	-0.47	0	0	0	0	0	0	0	0
2/20/2025 19:49	22803	HAUT_T2	63	69	6	1.04	0.81	-0.23	0	0	0	0	0	0	0	0
2/20/2025 19:49	40601	PIGR_T1	227	222	-5	0.46	0.41	-0.05	0	0	0	0	0	0	0	0
2/20/2025 19:49	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 19:49	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 19:49	40503	CRES_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/20/2025 19:49	22805	HAUT_T2	91	128	37	1.03	1.15	0.12	0	0	0	0	0	0	0	0
2/20/2025 19:49	40501	CRES_T2	5	9	4	0.32	0.26	-0.06	0	0	0	0	0	0	0	0
2/20/2025 19:49	53502	EVIL_T2	6	10	4	0.12	0	-0.12	0	0	0	0	0	0	0	0
2/20/2025 19:49	60201	ATGL_T2	0	0	0	0	0	0	0.22	0.06	0	0	0	0	0	0
2/20/2025 19:49	53501	EVIL_T2	1	1	0	0.3	0.7	0.4	-1.41	-1.42	2	2	0	1200	1200	0
2/20/2025 19:49	45501	DERR_T2	2	6	4	0.15	0	-0.15	0.48	0.4	2	2	0	1800	1800	0
2/20/2025 19:49	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
2/20/2025 19:49	45002	LIME_2	1	2	1	3.6	5	1.4	0	0	0	0	0	0	0	0
2/20/2025 19:49	55002	NEWP_T1	3	4	1	0.97	0.78	-0.19	0	0	0	0	0	0	0	0
2/20/2025 19:49	65601	QVIL_T2	14	1	-13	0.52	0.1	-0.42	-0.84	-0.82	1	1	0	900	900	0
2/20/2025 19:49	55001	NEWP_T1	0	19	19	0	0	0	-0.69	-0.12	0	0	0	0	0	0
2/20/2025 19:49	56501	ROCK_T2	2	2	0	0.8	0.7	-0.1	-1.31	-1.34	0	0	0	0	0	0
2/20/2025 19:49	54201	PENN_T1	10	10	0	0.75	0.98	0.23	-0.51	-0.49	0	0	0	0	0	0
2/20/2025 19:49	54203	PENN_T1	18	18	0	0.66	0.91	0.25	0	0	0	0	0	0	0	0
2/20/2025 19:49	40505	CRES_T1	0	0	0	0	0	0	0.55	0.49	0	0	0	0	0	0
2/20/2025 19:49	45502	DERR_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/20/2025 19:49	45003	LIME_2	74	81	7	2.11	1.95	-0.16	0.61	0.6	0	0	0	0	0	0
2/20/2025 19:50	54203	PENN_T1	18	18	0	0.66	0.91	0.25	0.68	0.71	0	0	0	0	0	0
2/20/2025 19:50	53902	HALI_T2	1	1	0	4.3	4.7	0.4	0	0	0	0	0	0	0	0
2/20/2025 19:50	54201	PENN_T1	10	10	0	0.75	0.98	0.23	0	0	0	0	0	0	0	0
2/20/2025 19:50	66505	SMAN_T2	2	3	1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
2/20/2025 19:50	61801	EELI_T2	0	0	0	0	0	0	-1.04	-1.03	1	1	0	600	600	0
2/20/2025 19:50	57401	SPAN_T1	0	0	0	0	0	0	-1.03	-1.04	1	1	0	600	600	0
2/20/2025 19:50	45003	LIME_2	74	81	7	2.11	1.95	-0.16	0.61	0.6	0	0	0	0	0	0
2/20/2025 19:50	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 19:50	64801	MONE_T2	1	6	5	0.6	0.2	-0.4	83.96	83.96	0	0	0	0	0	0
2/20/2025 19:50	20601	GRWO_T2	3	4	1	1.2	1.77	0.57	0	0	0	0	0	0	0	0
2/20/2025 19:50	11103	EGYP_T1	0	0	0	0	0	0	0.63	0.61	0	0	0	0	0	0
2/20/2025 19:50	40601	PIGR_T1	227	222	-5	0.46	0.41	-0.05	0	0	0	0	0	0	0	0
2/20/2025 19:50	53901	HALI_T2	0	0	0	0	0	0	-1.27	-1.26	0	0	0	0	0	0
2/20/2025 19:50	54505	ENOL_T2	0	1	1	0	0.1	0.1	-0.65	-0.65	1	1	0	600	600	0
2/20/2025 19:50	44502	HAMI_T2	1	2	1	2.5	2.5	0	0	0	0	0	0	0	0	0
2/20/2025 19:50	44501	HAMI_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
2/20/2025 19:50	45001	LIME_2	64	47	-17	1.08	0.61	-0.47	0	0	0	0	0	0	0	0
2/20/2025 19:50	11804	FRAN_T1	3	2	-1	0.27	0.4	0.13	0.84	0.81	0	0	0	0	0	0
2/20/2025 19:50	46204	DANV_T2	1	3	2	0.9	0	-0.9	0	0	0	0	0	0	0	0
2/20/2025 19:50	46203	DANV_T2	158	144	-14	0.65	0.69	0.04	-1.46	-1.43	0	0	0	0	0	0
2/20/2025 19:50	65702	RVIL_T2	0	0	0	0	0	0	-1.39	-1.39	1	1	0	600	600	0
2/20/2025 19:50	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 19:50	66302	MCGO_T2	0	0	0	0	0	0	-1.38	-1.35	1	1	0	600	600	0
2/20/2025 19:50	11102	EGYP_T1	0	7	7	0	0.23	0.23	0	0	0	0	0	0	0	0
2/20/2025 19:50	66303	MCGO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/20/2025 19:50	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
2/20/2025 19:50	54503	ENOL_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/20/2025 19:50	20603	GRWO_T2	43	59	16	0.45	0.42	-0.03	-0.38	-0.38	1	1	0	900	900	0
2/20/2025 19:50	45002	LIME_2	1	2	1	3.6	5	1.4	0	0	0	0	0	0	0	0
2/20/2025 19:50	64802	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/20/2025 19:50	11104	EGYP_T1	17	4	-13	0.52	0.78	0.26	0	0	0	0	0	0	0	0
2/20/2025 19:50	57403	SPAN_T1	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/20/2025 19:50	40602	PIGR_T1	26	1	-25	0.29	0.2	-0.09	0	0	0	0	0	0	0	0
2/20/2025 19:50	56501	ROCK_T2	2	2	0	0.8	0.7	-0.1	-1.31	-1.34	0	0	0	0	0	0
2/20/2025 19:50	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 19:50	65601	QVIL_T2	14	1	-13	0.52	0.1	-0.42	-0.84	-0.82	1	1	0	900	900	0
2/20/2025 19:51	41305	FISH_T1	1	4	3	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/20/2025 19:51	45502	DERR_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/20/2025 19:51	57205	ROSS_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
2/20/2025 19:51	65702	RVIL_T2	0	0	0	0	0	0	-1.39	-1.41	1	1	0	600	600	0
2/20/2025 19:51	45501	DERR_T2	2	6	4	0.15	0	-0.15	0.4	0.07	2	2	0	1800	1800	0
2/20/2025 19:51	56501	ROCK_T2	2	2	0	0.8	0.7	-0.1	-1.31	-1.34	0	0	0	0	0	0
2/20/2025 19:51	64101	REFR_T1	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
2/20/2025 19:51	41301	FISH_T1	3	3	0	1.13	1.13	0	-0.2	-0.24	0	0	0	0	0	0
2/20/2025 19:51	57402	SPAN_T2	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
2/20/2025 19:51	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
2/20/2025 19:51	65205	PRIN_T1	3	1	-2	2.4	2	-0.4	0	0	0	0	0	0	0	0
2/20/2025 19:51	63802	HEMP_T1	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
2/20/2025 19:51	65202	PRIN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/20/2025 19:52	45003	LIME_2	74	81	7	2.11	1.95	-0.16	0	0	0	0	0	0	0	0
2/20/2025 19:52	40602	PIGR_T1	26	1	-25	0.29	0.2	-0.09	0	0	0	0	0	0	0	0
2/20/2025 19:52	52101	MEIS_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
2/20/2025 19:52	63803	HEMP_T1	0	0	0	0	0	0	0.78	0.79	0	0	0	0	0	0
2/20/2025 19:52	52102	MEIS_T1	1	1	0	0.4	0	-0.4	0	0	1	1	0	450	450	0
2/20/2025 19:52	46204	DANV_T2	1	3	2	0.9	0	-0.9	0	0	0	0	0	0	0	0
2/20/2025 19:52	53802	MBRG_T2	2	1	-1	0.6	1	0.4	0	0	0	0	0	0	0	0
2/20/2025 19:52	45002	LIME_2	1	2	1	3.6	5	1.4	0.89	0.87	0	0	0	0	0	0
2/20/2025 19:52	64802	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/20/2025 19:52	49803	UNIV_T1	14	25	11	0.74	0.94	0.2	0	0	0	0	0	0	0	0
2/20/2025 19:52	40503	CRES_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/20/2025 19:52	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
2/20/2025 19:52	49804	UNIV_T1	0	2	2	0	0	0	0.68	0.7	0	0	0	0	0	0
2/20/2025 19:52	45001	LIME_2	64	47	-17	1.08	0.61	-0.47	0	0	0	0	0	0	0	0
2/20/2025 19:52	64801	MONE_T2	1	6	5	0.6	0.2	-0.4	83.96	83.96	0	0	0	0	0	0
2/20/2025 19:52	53803	MBRG_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
2/20/2025 19:52	40505	CRES_T1	0	0	0	0	0	0	0.49	0.54	0	0	0	0	0	0
2/20/2025 19:52	46203	DANV_T2	158	144	-14	0.65	0.69	0.04	-1.43	-1.41	0	0	0	0	0	0
2/20/2025 19:52	40601	PIGR_T1	227	222	-5	0.46	0.41	-0.05	-0.1	-0.08	0	0	0	0	0	0
2/20/2025 19:53	64101	REFR_T1	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
2/20/2025 19:53	41901	REED_T1	1	3	2	0.3	0.3	0	0	0	0	0	0	0	0	0
2/20/2025 19:53	46206	DANV_T2	0	0	0	0	0	0	-0.19	0.71	2	1	-1	2100	900	-1200
2/20/2025 19:53	40501	CRES_T2	5	9	4	0.32	0.26	-0.06	0	0	0	0	0	0	0	0
2/20/2025 19:53	40602	PIGR_T1	26	1	-25	0.29	0.2	-0.09	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/20/2025 19:53	40601	PIGR_T1	227	222	-5	0.46	0.41	-0.05	0	0	0	0	0	0	0	0
2/20/2025 19:53	67203	TEHI_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/20/2025 19:53	46204	DANV_T2	1	3	2	0.9	0	-0.9	0	0	0	0	0	0	0	0
2/20/2025 19:53	46203	DANV_T2	158	144	-14	0.65	0.69	0.04	0	0	0	0	0	0	0	0
2/20/2025 19:53	67201	TEHI_T1	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
2/20/2025 19:53	56501	ROCK_T2	2	2	0	0.8	0.7	-0.1	-1.34	-1.35	0	0	0	0	0	0
2/20/2025 19:53	64801	MONE_T2	1	6	5	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
2/20/2025 19:53	64802	MONE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/20/2025 19:53	65702	RVIL_T2	0	0	0	0	0	0	-1.39	-1.41	1	1	0	600	600	0
2/20/2025 19:53	45802	HEGI_T2	21	47	26	0.5	0.84	0.34	0.93	0.94	0	0	0	0	0	0
2/20/2025 19:53	41902	REED_T1	16	20	4	0.43	0.58	0.15	0.3	0.33	1	1	0	900	900	0
2/20/2025 19:53	60801	BUCK_T1	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
2/20/2025 19:54	58201	NEWV_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
2/20/2025 19:54	40601	PIGR_T1	227	222	-5	0.46	0.41	-0.05	-0.05	-0.04	0	0	0	0	0	0
2/20/2025 19:54	44201	POIN_T1	186	214	28	0.62	0.68	0.06	-2.48	-2.47	2	2	0	2100	2100	0
2/20/2025 19:54	61802	EELI_T2	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
2/20/2025 19:54	40602	PIGR_T1	26	1	-25	0.29	0.2	-0.09	0	0	0	0	0	0	0	0
2/20/2025 19:54	58202	NEWV_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
2/20/2025 19:54	40501	CRES_T2	5	9	4	0.32	0.26	-0.06	0	0	0	0	0	0	0	0
2/20/2025 19:54	43801	SWIL_T1	9	10	1	0.74	0.74	0	0	0	0	0	0	0	0	0
2/20/2025 19:54	43802	SWIL_T1	0	0	0	0	0	0	0.64	0.64	0	0	0	0	0	0
2/20/2025 19:55	40601	PIGR_T1	227	222	-5	0.46	0.41	-0.05	0	0	0	0	0	0	0	0
2/20/2025 19:55	45001	LIME_2	64	47	-17	1.08	0.61	-0.47	0	0	0	0	0	0	0	0
2/20/2025 19:55	52402	GRPA_T2	85	89	4	1	0.94	-0.06	0	0	0	0	0	0	0	0
2/20/2025 19:55	55101	WERT_T1	1	1	0	0.3	0	-0.3	-3.35	-3.41	4	4	0	3000	3000	0
2/20/2025 19:55	60201	ATGL_T2	0	0	0	0	0	0	0.06	0.2	0	0	0	0	0	0
2/20/2025 19:55	52401	GRPA_T2	21	8	-13	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
2/20/2025 19:55	57403	SPAN_T1	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/20/2025 19:55	56501	ROCK_T2	2	2	0	0.8	0.7	-0.1	-1.34	-1.35	0	0	0	0	0	0
2/20/2025 19:55	52404	GRPA_T2	4	1	-3	1.05	0	-1.05	0	0	0	0	0	0	0	0
2/20/2025 19:55	52403	GRPA_T2	77	86	9	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
2/20/2025 19:55	57401	SPAN_T1	0	0	0	0	0	0	-1.04	-1.04	1	1	0	600	600	0
2/20/2025 19:55	40602	PIGR_T1	26	1	-25	0.29	0.2	-0.09	-0.21	-0.27	0	0	0	0	0	0
2/20/2025 19:55	45003	LIME_2	74	81	7	2.11	1.95	-0.16	0.6	0.63	0	0	0	0	0	0
2/20/2025 19:55	45702	LIND_T2	1	1	0	0.6	0.6	0	-0.38	-0.44	0	0	0	0	0	0
2/20/2025 19:55	45002	LIME_2	1	2	1	3.6	5	1.4	0	0	0	0	0	0	0	0
2/20/2025 19:56	57106	SPHI_T2	3	3	0	0.97	1.4	0.43	0	0	0	0	0	0	0	0
2/20/2025 19:56	65601	QVIL_T2	14	1	-13	0.52	0.1	-0.42	0	0	0	0	0	0	0	0
2/20/2025 19:56	54503	ENOL_T2	1	1	0	0.5	0	-0.5	-0.28	-0.29	1	1	0	600	600	0
2/20/2025 19:56	66503	SMAN_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
2/20/2025 19:56	57104	SPHI_T2	2	2	0	6.8	3.3	-3.5	-0.92	-0.91	0	0	0	0	0	0
2/20/2025 19:56	66505	SMAN_T2	2	3	1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
2/20/2025 19:56	45001	LIME_2	64	47	-17	1.08	0.61	-0.47	0	0	0	0	0	0	0	0
2/20/2025 19:56	55002	NEWP_T1	3	4	1	0.97	0.78	-0.19	-0.12	-0.1	0	0	0	0	0	0
2/20/2025 19:56	65603	QVIL_T2	0	0	0	0	0	0	0.28	0.22	0	0	0	0	0	0
2/20/2025 19:56	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/20/2025 19:56	45003	LIME_2	74	81	7	2.11	1.95	-0.16	0	0	0	0	0	0	0	0
2/20/2025 19:56	55001	NEWP_T1	0	19	19	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 19:56	45002	LIME_2	1	2	1	3.6	5	1.4	0	0	0	0	0	0	0	0
2/20/2025 19:57	52401	GRPA_T2	21	8	-13	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
2/20/2025 19:57	45001	LIME_2	64	47	-17	1.08	0.61	-0.47	0	0	0	0	0	0	0	0
2/20/2025 19:57	45002	LIME_2	1	2	1	3.6	5	1.4	0.89	0.87	0	0	0	0	0	0
2/20/2025 19:57	64802	MONE_T2	0	1	1	0	0.2	0.2	-0.01	-0.01	0	0	0	0	0	0
2/20/2025 19:57	45003	LIME_2	74	81	7	2.11	1.95	-0.16	0.6	0.63	0	0	0	0	0	0
2/20/2025 19:57	57403	SPAN_T1	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/20/2025 19:57	61306	EARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/20/2025 19:57	64101	REFR_T1	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
2/20/2025 19:57	52404	GRPA_T2	4	1	-3	1.05	0	-1.05	0	0	0	0	0	0	0	0
2/20/2025 19:57	61302	EARL_T1	39	0	-39	0.71	0	-0.71	0	0	0	0	0	0	0	0
2/20/2025 19:57	61304	EARL_T1	36	2	-34	0.94	0.1	-0.84	-0.71	-0.75	1	1	0	600	600	0
2/20/2025 19:57	52403	GRPA_T2	77	86	9	0.7	0.63	-0.07	-0.93	-1.01	0	0	0	0	0	0
2/20/2025 19:57	64801	MONE_T2	1	6	5	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
2/20/2025 19:57	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 19:57	61305	EARL_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/20/2025 19:57	52402	GRPA_T2	85	89	4	1	0.94	-0.06	0	0	0	0	0	0	0	0
2/20/2025 19:57	61301	EARL_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/20/2025 19:57	45802	HEGI_T2	21	47	26	0.5	0.84	0.34	0	0	0	0	0	0	0	0
2/20/2025 19:58	41901	REED_T1	1	3	2	0.3	0.3	0	0	0	0	0	0	0	0	0
2/20/2025 19:58	67402	WAKE_T2	0	0	0	0	0	0	-0.18	-0.2	1	1	0	600	600	0
2/20/2025 19:58	66302	MCGO_T2	0	0	0	0	0	0	-4.04	-4.11	3	3	0	1800	1800	0
2/20/2025 19:58	58201	NEWV_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
2/20/2025 19:58	41902	REED_T1	16	20	4	0.43	0.58	0.15	0.3	0.33	1	1	0	900	900	0
2/20/2025 19:58	66303	MCGO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/20/2025 19:58	58202	NEWV_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
2/20/2025 19:58	64101	REFR_T1	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
2/20/2025 19:58	55101	WERT_T1	1	1	0	0.3	0	-0.3	-1.68	-1.7	2	2	0	1500	1500	0
2/20/2025 19:59	57104	SPHI_T2	2	2	0	6.8	3.3	-3.5	0	0	0	0	0	0	0	0
2/20/2025 19:59	58202	NEWV_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
2/20/2025 19:59	58701	ROSE_T2	0	0	0	0	0	0	-0.15	-0.16	1	1	0	600	600	0
2/20/2025 19:59	57106	SPHI_T2	3	3	0	0.97	1.4	0.43	0	0	0	0	0	0	0	0
2/20/2025 19:59	57403	SPAN_T1	1	2	1	0.3	0	-0.3	0.35	0.31	0	0	0	0	0	0
2/20/2025 19:59	65601	QVIL_T2	14	1	-13	0.52	0.1	-0.42	0	0	0	0	0	0	0	0
2/20/2025 19:59	64101	REFR_T1	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
2/20/2025 19:59	57103	SPHI_T2	0	0	0	0	0	0	-0.75	-0.76	1	1	0	600	600	0
2/20/2025 19:59	58201	NEWV_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
2/20/2025 19:59	58706	ROSE_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
2/20/2025 20:00	67402	WAKE_T2	0	0	0	0	0	0	-0.18	-0.2	1	1	0	600	600	0
2/20/2025 20:00	58201	NEWV_T1	1	1	0	2.3	0.3	-2	0	0	0	0	0	0	0	0
2/20/2025 20:00	55101	WERT_T1	1	0	-1	0.4	0	-0.4	-1.68	-1.7	2	2	0	1500	1500	0
2/20/2025 20:01	65502	MOJO_T2	12	151	139	0.1	0.15	0.05	-1.73	-1.76	1	1	0	900	900	0
2/20/2025 20:02	57403	SPAN_T1	2	0	-2	0.6	0	-0.6	0.35	0.31	0	0	0	0	0	0
2/20/2025 20:02	65601	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/20/2025 20:02	52404	GRPA_T2	1	0	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
2/20/2025 20:02	52402	GRPA_T2	86	79	-7	1.15	0.8	-0.35	0	0	0	0	0	0	0	0
2/20/2025 20:02	52403	GRPA_T2	39	99	60	0.66	0.63	-0.03	-0.47	-0.51	0	0	0	0	0	0
2/20/2025 20:02	65603	QVIL_T2	0	0	0	0	0	0	0.28	0.22	0	0	0	0	0	0
2/20/2025 20:02	52401	GRPA_T2	7	8	1	0.41	0.28	-0.13	0	0	0	0	0	0	0	0
2/20/2025 20:02	64904	MILL_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
2/20/2025 20:05	50506	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 20:05	50504	MECH_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/20/2025 20:05	50502	MECH_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
2/20/2025 20:05	50501	MECH_T1	3	4	1	0.13	0.25	0.12	0	0	0	0	0	0	0	0
2/20/2025 20:07	66502	SMAN_T2	0	0	0	0	0	0	-0.07	-0.12	0	0	0	0	0	0
2/20/2025 20:07	66505	SMAN_T2	3	1	-2	0.33	0.6	0.27	0	0	0	0	0	0	0	0
2/20/2025 20:26	24202	PROV_T4	0	0	0	0	0	0	-0.77	-0.75	1	1	0	1200	1200	0
2/20/2025 20:29	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/20/2025 20:29	41802	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/20/2025 20:34	61802	EELI_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
2/20/2025 20:49	65702	RVIL_T2	0	0	0	0	0	0	-1.42	-1.45	1	1	0	600	600	0
2/20/2025 20:58	61802	EELI_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
2/20/2025 22:50	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 0:24	52403	GRPA_T2	10	1	-9	0.57	0.8	0.23	-1.6	-1.59	0	0	0	0	0	0
2/21/2025 0:24	52402	GRPA_T2	42	20	-22	0.73	0.28	-0.45	0	0	0	0	0	0	0	0
2/21/2025 1:09	59003	MIFF_T1	0	0	0	0	0	0	-0.54	-0.17	0	0	0	0	0	0
2/21/2025 1:15	20601	GRWO_T2	1	1	0	1.1	1.3	0.2	-0.05	-0.04	0	0	0	0	0	0
2/21/2025 1:15	20603	GRWO_T2	4	4	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
2/21/2025 7:48	17802	GILB_T1	4	1	-3	0.23	0	-0.23	0.38	0.35	0	0	0	0	0	0
2/21/2025 7:52	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 7:52	41902	REED_T1	6	2	-4	0.5	0.1	-0.4	0.45	0.44	1	1	0	900	900	0
2/21/2025 7:52	41901	REED_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
2/21/2025 8:00	10805	CHHI_T2	7	6	-1	1.63	8	6.37	-0.96	-1.07	1	1	0	600	600	0
2/21/2025 8:00	20603	GRWO_T2	26	26	0	0.78	0.59	-0.19	0	0	0	0	0	0	0	0
2/21/2025 8:00	20601	GRWO_T2	73	170	97	0.72	0.73	0.01	0.25	0.33	0	0	0	0	0	0
2/21/2025 8:03	22803	HAUT_T2	67	67	0	1.02	0.84	-0.18	0	0	0	0	0	0	0	0
2/21/2025 8:03	22805	HAUT_T2	77	111	34	0.87	0.81	-0.06	0	0	0	0	0	0	0	0
2/21/2025 8:06	55001	NEWP_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/21/2025 8:06	55002	NEWP_T1	2	3	1	0.55	0.63	0.08	-0.13	-0.13	0	0	0	0	0	0
2/21/2025 8:24	67904	WNHO_T1	0	0	0	0	0	0	-2.08	-2.06	2	2	0	2100	2100	0
2/21/2025 8:31	63801	HEMP_T1	0	0	0	0	0	0	-0.75	-0.55	1	1	0	900	900	0
2/21/2025 8:31	63803	HEMP_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/21/2025 8:31	63804	HEMP_T1	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
2/21/2025 8:38	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 8:39	66504	SMAN_T2	0	0	0	0	0	0	-2.79	-2.85	2	2	0	2400	2400	0
2/21/2025 8:41	29401	BELT_T1	1	34	33	0.1	0.22	0.12	0	0	0	0	0	0	0	0
2/21/2025 8:41	66504	SMAN_T2	0	0	0	0	0	0	-1.4	-1.43	1	1	0	1200	1200	0
2/21/2025 8:41	29402	BELT_T1	1	29	28	8.6	0.52	-8.08	0	0	0	0	0	0	0	0
2/21/2025 8:48	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/21/2025 8:48	52402	GRPA_T2	42	57	15	0.46	0.66	0.2	0	0	0	0	0	0	0	0
2/21/2025 8:48	52403	GRPA_T2	9	25	16	0.74	1.34	0.6	-1.17	-0.6	0	0	0	0	0	0
2/21/2025 8:50	10401	LIGA_T1	0	29	29	0	0.22	0.22	0	0	0	0	0	0	0	0
2/21/2025 8:51	25404	LAHA_T2	2	2	0	1	0.95	-0.05	0	0	0	0	0	0	0	0
2/21/2025 8:51	25402	LAHA_T2	165	119	-46	0.81	0.76	-0.05	-0.17	-0.18	0	0	0	0	0	0
2/21/2025 8:52	54203	PENN_T1	18	18	0	0.81	1.02	0.21	0	0	0	0	0	0	0	0
2/21/2025 8:52	54201	PENN_T1	10	10	0	0.85	1.05	0.2	-0.46	-0.47	0	0	0	0	0	0
2/21/2025 8:53	55002	NEWP_T1	3	3	0	0.73	0.5	-0.23	-0.14	-0.13	0	0	0	0	0	0
2/21/2025 8:53	25801	SUTR_T2	7	6	-1	3.03	4.26	1.23	-0.47	-0.47	0	0	0	0	0	0
2/21/2025 8:54	57201	ROSS_T1	0	0	0	0	0	0	-1.33	-1.19	0	0	0	0	0	0
2/21/2025 8:56	60701	BREC_T1	30	210	180	0.26	0.32	0.06	-0.76	-0.61	2	2	0	1200	1200	0
2/21/2025 8:56	58302	NOTT_T1	0	0	0	0	0	0	-1.27	-1.25	2	2	0	2100	2100	0
2/21/2025 8:57	60701	BREC_T1	30	210	180	0.26	0.32	0.06	-3.06	-2.43	8	8	0	4800	4800	0
2/21/2025 8:58	45502	DERR_T2	5	3	-2	1	0.55	-0.45	0	0	0	0	0	0	0	0
2/21/2025 8:58	60701	BREC_T1	30	210	180	0.26	0.32	0.06	-2.29	-1.82	6	6	0	3600	3600	0
2/21/2025 8:58	45501	DERR_T2	2	0	-2	0.75	0	-0.75	0.52	0.54	2	2	0	1800	1800	0
2/21/2025 8:59	60701	BREC_T1	30	210	180	0.26	0.32	0.06	-1.53	-1.21	4	4	0	2400	2400	0
2/21/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
2/21/2025 9:00	60701	BREC_T1	210	9	-201	0.32	0.37	0.05	-2.29	-1.82	6	6	0	3600	3600	0
2/21/2025 9:00	28102	TWLA_T2	27	48	21	0.71	0.48	-0.23	0.3	0.3	0	0	0	0	0	0
2/21/2025 9:00	45501	DERR_T2	2	5	3	0.1	0	-0.1	0.52	0.54	2	2	0	1800	1800	0
2/21/2025 9:00	45002	LIME_2	1	2	1	4.2	5.2	1	0	0	0	0	0	0	0	0
2/21/2025 9:00	67502	WEWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:00	45003	LIME_2	60	66	6	1.83	0.83	-1	0.77	0.71	0	0	0	0	0	0
2/21/2025 9:00	40505	CRES_T1	0	1	1	0	0	0	0.55	0.52	0	0	0	0	0	0
2/21/2025 9:00	45502	DERR_T2	3	2	-1	0.77	0	-0.77	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/21/2025 9:00	45001	LIME_2	10	34	24	0.68	0.54	-0.14	0	0	0	0	0	0	0	0
2/21/2025 9:00	25404	LAHA_T2	2	2	0	0.95	0.8	-0.15	0	0	0	0	0	0	0	0
2/21/2025 9:00	25402	LAHA_T2	77	171	94	0.82	0.78	-0.04	-0.17	-0.18	0	0	0	0	0	0
2/21/2025 9:00	53901	HALI_T2	0	0	0	0	0	0	-1.37	-1.37	0	0	0	0	0	0
2/21/2025 9:00	53902	HALI_T2	1	1	0	4.5	4	-0.5	0	0	0	0	0	0	0	0
2/21/2025 9:01	60701	BREC_T1	210	9	-201	0.32	0.37	0.05	-0.76	-0.61	2	2	0	1200	1200	0
2/21/2025 9:02	60701	BREC_T1	210	9	-201	0.32	0.37	0.05	-0.76	-0.61	2	2	0	1200	1200	0
2/21/2025 9:07	66901	SHIL_T2	0	0	0	0	0	0	-1.19	-1.17	1	1	0	1200	1200	0
2/21/2025 9:08	52502	PROG_T2	0	1	1	0	0	0	-0.28	-0.29	1	1	0	900	900	0
2/21/2025 9:08	65602	QVIL_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
2/21/2025 9:08	66902	SHIL_T2	0	0	0	0	0	0	-1.93	-1.92	0	0	0	0	0	0
2/21/2025 9:08	66903	SHIL_T2	0	0	0	0	0	0	-1.17	-1.14	0	0	0	0	0	0
2/21/2025 9:08	65604	QVIL_T2	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
2/21/2025 9:08	65601	QVIL_T2	37	3	-34	0.19	0.27	0.08	0	0	0	0	0	0	0	0
2/21/2025 9:08	65603	QVIL_T2	0	0	0	0	0	0	0.96	1.47	0	0	0	0	0	0
2/21/2025 9:09	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:09	67402	WAKE_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
2/21/2025 9:09	52502	PROG_T2	0	1	1	0	0	0	-0.28	-0.29	1	1	0	900	900	0
2/21/2025 9:09	25801	SUTR_T2	6	6	0	3.73	4.22	0.49	-0.47	-0.48	0	0	0	0	0	0
2/21/2025 9:10	66903	SHIL_T2	0	0	0	0	0	0	-1.17	-1.14	0	0	0	0	0	0
2/21/2025 9:10	52502	PROG_T2	0	1	1	0	0	0	-0.28	-0.29	1	1	0	900	900	0
2/21/2025 9:10	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:10	67402	WAKE_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
2/21/2025 9:11	66903	SHIL_T2	0	0	0	0	0	0	-1.17	-1.14	0	0	0	0	0	0
2/21/2025 9:11	52502	PROG_T2	0	1	1	0	0	0	-0.28	-0.29	1	1	0	900	900	0
2/21/2025 9:12	29402	BELT_T1	29	4	-25	0.52	2.55	2.03	0	0	0	0	0	0	0	0
2/21/2025 9:12	14801	TREI_T2	1	1	0	0.5	0.3	-0.2	1.79	1.62	0	0	0	0	0	0
2/21/2025 9:12	29401	BELT_T1	34	12	-22	0.22	0.14	-0.08	0	0	0	0	0	0	0	0
2/21/2025 9:12	66903	SHIL_T2	0	0	0	0	0	0	-1.17	-1.14	0	0	0	0	0	0
2/21/2025 9:13	60201	ATGL_T2	5	32	27	0.46	0.27	-0.19	0.25	0.35	0	0	0	0	0	0
2/21/2025 9:14	16302	ALPA_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
2/21/2025 9:14	29401	BELT_T1	34	12	-22	0.22	0.14	-0.08	0	0	0	0	0	0	0	0
2/21/2025 9:14	29402	BELT_T1	29	4	-25	0.52	2.55	2.03	0	0	0	0	0	0	0	0
2/21/2025 9:16	11101	EGYP_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:16	11104	EGYP_T1	1	2	1	0.9	0	-0.9	0.56	0.52	0	0	0	0	0	0
2/21/2025 9:16	11102	EGYP_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:16	11507	FREE_T2	180	115	-65	0.98	0.99	0.01	2.02	2	0	0	0	0	0	0
2/21/2025 9:17	20603	GRWO_T2	18	20	2	1.08	1.02	-0.06	0	0	0	0	0	0	0	0
2/21/2025 9:17	53501	EVIL_T2	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
2/21/2025 9:17	53502	EVIL_T2	1	12	11	4	1.11	-2.89	0	0	0	0	0	0	0	0
2/21/2025 9:17	20602	GRWO_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/21/2025 9:17	22805	HAUT_T2	112	113	1	1.12	0.89	-0.23	0	0	0	0	0	0	0	0
2/21/2025 9:17	20601	GRWO_T2	112	96	-16	0.71	0.49	-0.22	0.6	0.64	0	0	0	0	0	0
2/21/2025 9:17	22803	HAUT_T2	73	73	0	1.26	1.1	-0.16	0	0	0	0	0	0	0	0
2/21/2025 9:17	23401	HONE_T2	52	110	58	0.57	0.49	-0.08	0.09	0.12	0	0	0	0	0	0
2/21/2025 9:18	20603	GRWO_T2	18	20	2	1.08	1.02	-0.06	0	0	0	0	0	0	0	0
2/21/2025 9:18	20602	GRWO_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/21/2025 9:18	20601	GRWO_T2	112	96	-16	0.71	0.49	-0.22	0.6	0.64	0	0	0	0	0	0
2/21/2025 9:19	23401	HONE_T2	52	110	58	0.57	0.49	-0.08	0.09	0.12	0	0	0	0	0	0
2/21/2025 9:20	11101	EGYP_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:20	11102	EGYP_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:20	11104	EGYP_T1	1	2	1	0.9	0	-0.9	0.56	0.52	0	0	0	0	0	0
2/21/2025 9:21	65601	QVIL_T2	3	3	0	0.23	0.27	0.04	0	0	0	0	0	0	0	0
2/21/2025 9:21	65602	QVIL_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
2/21/2025 9:21	65604	QVIL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/21/2025 9:22	52502	PROG_T2	0	1	1	0	0.1	0.1	-0.29	-0.32	1	1	0	900	900	0
2/21/2025 9:23	65604	QVIL_T2	1	0	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
2/21/2025 9:23	65602	QVIL_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
2/21/2025 9:23	65601	QVIL_T2	3	3	0	0.23	0.27	0.04	0.22	0.19	0	0	0	0	0	0
2/21/2025 9:24	55002	NEWP_T1	0	5	5	0	0.66	0.66	-0.15	-0.14	0	0	0	0	0	0
2/21/2025 9:24	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:25	52502	PROG_T2	0	1	1	0	0.1	0.1	-0.29	-0.32	1	1	0	900	900	0
2/21/2025 9:25	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 9:25	16201	POFA_T2	2	1	-1	0.9	1.4	0.5	0	0	0	0	0	0	0	0
2/21/2025 9:27	55105	WERT_T1	0	0	0	0	0	0	-0.29	-0.31	1	1	0	900	900	0
2/21/2025 9:27	55101	WERT_T1	5	4	-1	0.74	0	-0.74	0	0	0	0	0	0	0	0
2/21/2025 9:28	29402	BELT_T1	3	25	22	3.23	0.6	-2.63	0	0	0	0	0	0	0	0
2/21/2025 9:28	29401	BELT_T1	12	34	22	0.14	0.18	0.04	0	0	0	0	0	0	0	0
2/21/2025 9:29	55101	WERT_T1	5	4	-1	0.74	0	-0.74	0	0	0	0	0	0	0	0
2/21/2025 9:33	53901	HALI_T2	0	0	0	0	0	0	-1.35	-1.38	0	0	0	0	0	0
2/21/2025 9:33	53902	HALI_T2	1	1	0	4	5	1	0	0	0	0	0	0	0	0
2/21/2025 9:34	53901	HALI_T2	0	0	0	0	0	0	-1.35	-1.38	0	0	0	0	0	0
2/21/2025 9:34	53902	HALI_T2	1	1	0	4	5	1	0	0	0	0	0	0	0	0
2/21/2025 9:35	53902	HALI_T2	1	1	0	4	5	1	0	0	0	0	0	0	0	0
2/21/2025 9:35	53901	HALI_T2	0	0	0	0	0	0	-2.7	-2.76	0	0	0	0	0	0
2/21/2025 9:36	42001	MNVL_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
2/21/2025 9:36	64101	REFR_T1	0	0	0	0	0	0	0.16	0.11	0	0	0	0	0	0
2/21/2025 9:36	53901	HALI_T2	0	0	0	0	0	0	-1.35	-1.38	0	0	0	0	0	0
2/21/2025 9:36	53902	HALI_T2	1	1	0	4	5	1	0	0	0	0	0	0	0	0
2/21/2025 9:37	64101	REFR_T1	0	0	0	0	0	0	0.16	0.11	0	0	0	0	0	0
2/21/2025 9:38	64101	REFR_T1	0	0	0	0	0	0	0.48	0.33	0	0	0	0	0	0
2/21/2025 9:38	41901	REED_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/21/2025 9:38	41902	REED_T1	4	2	-2	0.88	0	-0.88	0.42	0.4	1	1	0	900	900	0
2/21/2025 9:38	57403	SPAN_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
2/21/2025 9:38	57401	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:39	58201	NEWV_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
2/21/2025 9:39	57401	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:39	57403	SPAN_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
2/21/2025 9:40	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 9:40	57401	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:41	41902	REED_T1	4	2	-2	0.88	0	-0.88	0.42	0.4	1	1	0	900	900	0
2/21/2025 9:41	41901	REED_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/21/2025 9:41	64101	REFR_T1	0	0	0	0	0	0	0.16	0.11	0	0	0	0	0	0
2/21/2025 9:42	26602	BROO_T2	3	2	-1	0.93	0	-0.93	0	0	0	0	0	0	0	0
2/21/2025 9:42	26604	BROO_T2	3	5	2	0.67	0.94	0.27	0	0	0	0	0	0	0	0
2/21/2025 9:42	64101	REFR_T1	0	0	0	0	0	0	0.16	0.11	0	0	0	0	0	0
2/21/2025 9:43	57401	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:43	57403	SPAN_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
2/21/2025 9:44	53501	EVIL_T2	1	2	1	0.8	0.55	-0.25	-1.81	-1.78	3	3	0	1800	1800	0
2/21/2025 9:44	53502	EVIL_T2	11	11	0	1.16	0.99	-0.17	0	0	0	0	0	0	0	0
2/21/2025 9:45	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 9:45	40101	HUNT_T2	82	102	20	1.2	1.13	-0.07	-0.67	-0.65	0	0	0	0	0	0
2/21/2025 9:45	56501	ROCK_T2	1	2	1	1.3	0.6	-0.7	0	0	0	0	0	0	0	0
2/21/2025 9:45	56504	ROCK_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
2/21/2025 9:45	45501	DERR_T2	2	0	-2	0.15	0	-0.15	0.44	0.19	2	2	0	1800	1800	0
2/21/2025 9:46	64101	REFR_T1	0	2	2	0	0.1	0.1	0.16	0.11	0	0	0	0	0	0
2/21/2025 9:46	52403	GRPA_T2	15	6	-9	0.85	1.04	0.19	-0.65	-0.67	0	0	0	0	0	0
2/21/2025 9:46	52401	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:46	52402	GRPA_T2	41	36	-5	0.54	0.43	-0.11	0	0	0	0	0	0	0	0
2/21/2025 9:47	57505	LAWN_T3	4	3	-1	0.25	0.1	-0.15	0.84	0.83	0	0	0	0	0	0
2/21/2025 9:49	52401	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:49	53903	HALI_T2	0	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0
2/21/2025 9:49	53901	HALI_T2	0	1	1	0	0.7	0.7	-1.38	-1.3	0	0	0	0	0	0
2/21/2025 9:49	53902	HALI_T2	1	1	0	4.3	5.9	1.6	0	0	0	0	0	0	0	0
2/21/2025 9:49	52403	GRPA_T2	15	6	-9	0.85	1.04	0.19	-0.65	-0.67	0	0	0	0	0	0
2/21/2025 9:49	52402	GRPA_T2	41	36	-5	0.54	0.43	-0.11	0	0	0	0	0	0	0	0
2/21/2025 9:50	53902	HALI_T2	1	1	0	4.3	5.9	1.6	-3.21	-3.29	0	0	0	0	0	0
2/21/2025 9:50	52401	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:50	53903	HALI_T2	0	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0
2/21/2025 9:50	53901	HALI_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
2/21/2025 9:50	52402	GRPA_T2	41	36	-5	0.54	0.43	-0.11	0	0	0	0	0	0	0	0
2/21/2025 9:50	52403	GRPA_T2	15	6	-9	0.85	1.04	0.19	0	0	0	0	0	0	0	0
2/21/2025 9:51	53902	HALI_T2	1	1	0	4.3	5.9	1.6	-1.07	-1.1	0	0	0	0	0	0
2/21/2025 9:51	44601	SALE_T2	34	47	13	0.19	0.25	0.06	-0.77	-0.77	0	0	0	0	0	0
2/21/2025 9:51	53901	HALI_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
2/21/2025 9:51	53903	HALI_T2	0	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0
2/21/2025 9:52	65602	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/21/2025 9:52	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:52	65601	QVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/21/2025 9:52	53903	HALI_T2	0	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0
2/21/2025 9:52	53901	HALI_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
2/21/2025 9:52	53902	HALI_T2	1	1	0	4.3	5.9	1.6	-1.1	-0.82	0	0	0	0	0	0
2/21/2025 9:52	67002	STHI_T2	0	1	1	0	0.2	0.2	1.36	1.44	0	0	0	0	0	0
2/21/2025 9:52	65604	QVIL_T2	1	0	-1	0.1	0	-0.1	0.58	0.59	0	0	0	0	0	0
2/21/2025 9:53	52403	GRPA_T2	15	6	-9	0.85	1.04	0.19	-0.67	-0.66	0	0	0	0	0	0
2/21/2025 9:53	52401	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:53	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:53	52402	GRPA_T2	41	36	-5	0.54	0.43	-0.11	0	0	0	0	0	0	0	0
2/21/2025 9:53	67002	STHI_T2	0	1	1	0	0.2	0.2	0.68	0.72	0	0	0	0	0	0
2/21/2025 9:54	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:54	12602	MACA_T1	5	27	22	0.34	0.18	-0.16	0	0	0	0	0	0	0	0
2/21/2025 9:54	67002	STHI_T2	0	1	1	0	0.2	0.2	0.68	0.72	0	0	0	0	0	0
2/21/2025 9:54	12601	MACA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 9:55	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:55	44601	SALE_T2	34	47	13	0.19	0.25	0.06	-0.77	-0.77	0	0	0	0	0	0
2/21/2025 9:55	67002	STHI_T2	0	1	1	0	0.2	0.2	0.68	0.72	0	0	0	0	0	0
2/21/2025 9:56	29401	BELT_T1	34	7	-27	0.18	0.13	-0.05	0	0	1	1	0	900	900	0
2/21/2025 9:56	29402	BELT_T1	25	2	-23	0.6	4.6	4	0	0	0	0	0	0	0	0
2/21/2025 9:57	67001	STHI_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/21/2025 9:57	67002	STHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 10:00	10805	CHHI_T2	8	8	0	1.19	1.47	0.28	-0.96	-1.09	1	1	0	600	600	0
2/21/2025 10:00	10801	CHHI_T1	1	2	1	1.3	0.1	-1.2	-1.74	-1.24	3	2	-1	2100	1500	-600
2/21/2025 10:02	11901	ETEX_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
2/21/2025 10:08	12602	MACA_T1	27	0	-27	0.18	0	-0.18	-3.68	-3.75	0	0	0	0	0	0
2/21/2025 10:08	12601	MACA_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
2/21/2025 10:11	60201	ATGL_T2	5	5	0	0.42	0.46	0.04	0.31	0.22	0	0	0	0	0	0
2/21/2025 10:11	24201	PROV_T3	3	5	2	5.7	3.44	-2.26	-1.31	-1.34	1	1	0	1200	1200	0
2/21/2025 10:11	24204	PROV_T3	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
2/21/2025 10:12	46204	DANV_T2	22	4	-18	0.39	0	-0.39	0	0	0	0	0	0	0	0
2/21/2025 10:12	46203	DANV_T2	22	24	2	0.47	0.4	-0.07	-0.62	-0.66	0	0	0	0	0	0
2/21/2025 10:12	46206	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/21/2025 10:13	46204	DANV_T2	22	4	-18	0.39	0	-0.39	0	0	0	0	0	0	0	0
2/21/2025 10:13	46206	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/21/2025 10:13	46203	DANV_T2	22	24	2	0.47	0.4	-0.07	-1.24	-1.32	0	0	0	0	0	0
2/21/2025 10:14	46206	DANV_T2	1	0	-1	0.2	0	-0.2	1.63	1.61	1	1	0	1200	1200	0
2/21/2025 10:14	60201	ATGL_T2	5	5	0	0.42	0.46	0.04	0	0	0	0	0	0	0	0
2/21/2025 10:14	14403	SSLA_T1	0	0	0	0	0	0	0.9	0.91	0	0	0	0	0	0
2/21/2025 10:14	14401	SSLA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/21/2025 10:14	46204	DANV_T2	22	4	-18	0.39	0	-0.39	0	0	0	0	0	0	0	0
2/21/2025 10:14	46203	DANV_T2	22	24	2	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
2/21/2025 10:15	46204	DANV_T2	4	0	-4	0.23	0	-0.23	0	0	0	0	0	0	0	0
2/21/2025 10:15	46203	DANV_T2	15	24	9	0.4	0.43	0.03	-0.62	-0.66	0	0	0	0	0	0
2/21/2025 10:16	16101	BING_T2	0	1	1	0	0.5	0.5	0.54	0.56	0	0	0	0	0	0
2/21/2025 10:16	16102	BING_T2	1	1	0	2.9	5.3	2.4	0	0	0	0	0	0	0	0
2/21/2025 10:17	57401	SPAN_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
2/21/2025 10:17	57403	SPAN_T1	0	6	6	0	0.25	0.25	0	0	0	0	0	0	0	0
2/21/2025 10:18	53901	HALI_T2	1	2	1	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
2/21/2025 10:18	53903	HALI_T2	2	2	0	1.2	1.35	0.15	-0.09	-0.09	0	0	0	0	0	0
2/21/2025 10:18	53902	HALI_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
2/21/2025 10:19	53903	HALI_T2	2	2	0	1.2	1.35	0.15	0	0	0	0	0	0	0	0
2/21/2025 10:19	53901	HALI_T2	1	2	1	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
2/21/2025 10:19	53902	HALI_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
2/21/2025 10:22	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 10:22	55002	NEWP_T1	3	8	5	0.33	0.63	0.3	-0.1	-0.11	0	0	0	0	0	0
2/21/2025 10:24	14403	SSLA_T1	0	0	0	0	0	0	0.91	0.87	0	0	0	0	0	0
2/21/2025 10:25	58401	MORO_T1	0	0	0	0	0	0	-0.74	-0.76	1	1	0	600	600	0
2/21/2025 10:27	60803	BUCK_T1	6	15	9	0.22	0.43	0.21	-0.9	-0.92	2	2	0	1200	1200	0
2/21/2025 10:27	60801	BUCK_T1	1	7	6	0.1	0.16	0.06	0	0	0	0	0	0	0	0
2/21/2025 10:28	60803	BUCK_T1	6	15	9	0.22	0.43	0.21	-1.35	-1.38	3	3	0	1800	1800	0
2/21/2025 10:28	60801	BUCK_T1	1	7	6	0.1	0.16	0.06	0	0	0	0	0	0	0	0
2/21/2025 10:28	10801	CHHI_T1	2	2	0	1.35	0.25	-1.1	-1.82	-1.69	3	3	0	2100	2100	0
2/21/2025 10:30	10801	CHHI_T1	1	9	8	0.1	0.3	0.2	-1.82	-1.69	3	3	0	2100	2100	0
2/21/2025 10:34	45802	HEGI_T2	9	32	23	0.52	0.57	0.05	0	0	0	0	0	0	0	0
2/21/2025 10:36	55001	NEWP_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/21/2025 10:36	58201	NEWV_T1	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
2/21/2025 10:36	55002	NEWP_T1	5	8	3	0.46	0.63	0.17	-0.2	-0.22	0	0	0	0	0	0
2/21/2025 10:36	58202	NEWV_T1	0	2	2	0	0.2	0.2	-0.11	-0.1	0	0	0	0	0	0
2/21/2025 10:38	60801	BUCK_T1	2	12	10	0.15	0.2	0.05	0	0	0	0	0	0	0	0
2/21/2025 10:38	58201	NEWV_T1	2	2	0	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
2/21/2025 10:38	60803	BUCK_T1	9	18	9	0.33	0.59	0.26	-0.46	-0.45	1	1	0	600	600	0
2/21/2025 10:38	58202	NEWV_T1	0	2	2	0	0.2	0.2	-0.1	-0.12	0	0	0	0	0	0
2/21/2025 10:39	57301	MOAL_T2	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
2/21/2025 10:39	57303	MOAL_T2	1	1	0	7.4	7.4	0	0	0	0	0	0	0	0	0
2/21/2025 10:40	14403	SSLA_T1	0	2	2	0	0	0	0.87	0.85	0	0	0	0	0	0
2/21/2025 10:41	55001	NEWP_T1	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/21/2025 10:41	55002	NEWP_T1	5	8	3	0.46	0.63	0.17	-0.11	-0.13	0	0	0	0	0	0
2/21/2025 10:42	60803	BUCK_T1	9	18	9	0.33	0.59	0.26	0	0	0	0	0	0	0	0
2/21/2025 10:42	16102	BING_T2	1	1	0	3.8	5.9	2.1	0.15	0.13	0	0	0	0	0	0
2/21/2025 10:42	60801	BUCK_T1	2	12	10	0.15	0.2	0.05	0.14	0.16	0	0	0	0	0	0
2/21/2025 10:42	16101	BING_T2	1	2	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
2/21/2025 10:43	60801	BUCK_T1	2	12	10	0.15	0.2	0.05	0.28	0.32	0	0	0	0	0	0
2/21/2025 10:43	61001	DONV_T1	0	1	1	0	0.5	0.5	-0.16	-0.13	0	0	0	0	0	0
2/21/2025 10:43	60803	BUCK_T1	9	18	9	0.33	0.59	0.26	0	0	0	0	0	0	0	0
2/21/2025 10:43	46203	DANV_T2	24	27	3	0.4	0.41	0.01	-0.61	-0.66	0	0	0	0	0	0
2/21/2025 10:44	46203	DANV_T2	24	27	3	0.4	0.41	0.01	-0.61	-0.66	0	0	0	0	0	0
2/21/2025 10:45	46004	BERW_T2	2	2	0	0.75	0	-0.75	0	0	0	0	0	0	0	0
2/21/2025 10:45	60801	BUCK_T1	6	15	9	0.17	0.21	0.04	0.14	0.16	0	0	0	0	0	0
2/21/2025 10:45	60803	BUCK_T1	15	21	6	0.43	0.54	0.11	0	0	0	0	0	0	0	0
2/21/2025 10:45	46002	BERW_T2	0	0	0	0	0	0	-0.71	-0.7	1	1	0	900	900	0
2/21/2025 10:46	47203	FAKO_T2	0	0	0	0	0	0	-0.99	-1	0	0	0	0	0	0
2/21/2025 10:47	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 10:48	17401	FOHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 10:49	54505	ENOL_T2	1	1	0	0.6	0.4	-0.2	-0.66	-0.65	1	1	0	600	600	0
2/21/2025 10:49	54503	ENOL_T2	1	0	-1	0.4	0	-0.4	-0.32	-0.31	1	1	0	600	600	0
2/21/2025 10:50	45002	LIME_2	1	1	0	4.8	5.3	0.5	0	0	0	0	0	0	0	0
2/21/2025 10:50	45003	LIME_2	11	59	48	0.54	0.59	0.05	0	0	0	0	0	0	0	0
2/21/2025 10:50	45001	LIME_2	16	36	20	0.45	0.24	-0.21	0	0	0	0	0	0	0	0
2/21/2025 10:51	64701	LITI_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
2/21/2025 10:52	46101	MACI_T2	0	0	0	0	0	0	-0.64	-0.7	2	2	0	2400	2400	0
2/21/2025 10:53	45002	LIME_2	1	1	0	4.8	5.3	0.5	0	0	0	0	0	0	0	0
2/21/2025 10:53	45003	LIME_2	11	59	48	0.54	0.59	0.05	0.64	0.58	0	0	0	0	0	0
2/21/2025 10:53	45001	LIME_2	16	36	20	0.45	0.24	-0.21	0	0	0	0	0	0	0	0
2/21/2025 10:55	57201	ROSS_T1	0	0	0	0	0	0	-1.12	-1.04	0	0	0	0	0	0
2/21/2025 10:55	57205	ROSS_T1	2	1	-1	0.95	1.7	0.75	0	0	0	0	0	0	0	0
2/21/2025 10:56	60201	ATGL_T2	12	82	70	0.39	0.28	-0.11	0	0	0	0	0	0	0	0
2/21/2025 10:57	60201	ATGL_T2	12	82	70	0.39	0.28	-0.11	0.44	0.53	0	0	0	0	0	0
2/21/2025 10:58	16102	BING_T2	1	1	0	5.3	5.9	0.6	0	0	0	0	0	0	0	0
2/21/2025 10:58	16101	BING_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
2/21/2025 10:58	16103	BING_T2	0	0	0	0	0	0	-2.15	-1.53	2	1	-1	1500	900	-600
2/21/2025 11:00	20601	GRWO_T2	9	3	-6	0.39	1.1	0.71	0	0	0	0	0	0	0	0
2/21/2025 11:00	20603	GRWO_T2	20	14	-6	1.36	0	-1.36	0	0	0	0	0	0	0	0
2/21/2025 11:00	53502	EVIL_T2	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
2/21/2025 11:00	53501	EVIL_T2	2	3	1	0.7	0.7	0	-1.2	-1.23	2	2	0	1200	1200	0
2/21/2025 11:02	53502	EVIL_T2	1	1	0	1.3	1.1	-0.2	0	0	0	0	0	0	0	0
2/21/2025 11:02	53501	EVIL_T2	2	3	1	0.7	0.7	0	-1.2	-1.23	2	2	0	1200	1200	0
2/21/2025 11:02	16101	BING_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
2/21/2025 11:02	16103	BING_T2	0	0	0	0	0	0	-2.15	-1.53	2	1	-1	1500	900	-600
2/21/2025 11:02	16102	BING_T2	1	1	0	5.9	5.3	-0.6	0	0	0	0	0	0	0	0
2/21/2025 11:03	54505	ENOL_T2	1	1	0	0.2	0.7	0.5	-0.65	-0.65	1	1	0	600	600	0
2/21/2025 11:03	41304	FISH_T2	1	1	0	0	0	0	0.08	0.21	0	0	0	0	0	0
2/21/2025 11:03	41302	FISH_T2	5	2	-3	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/21/2025 11:04	52403	GRPA_T2	15	24	9	0.77	0.59	-0.18	0	0	0	0	0	0	0	0
2/21/2025 11:04	52401	GRPA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/21/2025 11:04	41301	FISH_T1	3	3	0	1.07	1.53	0.46	-0.69	-0.67	0	0	0	0	0	0
2/21/2025 11:04	41304	FISH_T2	1	1	0	0	0	0	0.16	0.42	0	0	0	0	0	0
2/21/2025 11:04	52402	GRPA_T2	14	15	1	0.43	0.43	0	0	0	0	0	0	0	0	0
2/21/2025 11:04	46803	HEPB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 11:04	52404	GRPA_T2	0	0	0	0	0	0	0.13	0.02	0	0	0	0	0	0
2/21/2025 11:04	46801	HEPB_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/21/2025 11:04	41302	FISH_T2	5	2	-3	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/21/2025 11:05	52401	GRPA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/21/2025 11:05	41304	FISH_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 11:05	65501	MOJO_T1	0	0	0	0	0	0	-1.02	-1	1	1	0	900	900	0
2/21/2025 11:05	41302	FISH_T2	5	2	-3	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/21/2025 11:05	52404	GRPA_T2	0	0	0	0	0	0	0.13	0.02	0	0	0	0	0	0
2/21/2025 11:05	52402	GRPA_T2	14	15	1	0.43	0.43	0	0	0	0	0	0	0	0	0
2/21/2025 11:05	52403	GRPA_T2	15	24	9	0.77	0.59	-0.18	0	0	0	0	0	0	0	0
2/21/2025 11:06	64902	MILL_T2	0	0	0	0	0	0	-0.6	-0.6	1	1	0	900	900	0
2/21/2025 11:06	41302	FISH_T2	5	2	-3	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/21/2025 11:06	41304	FISH_T2	1	1	0	0	0	0	0.21	0.19	0	0	0	0	0	0
2/21/2025 11:07	41301	FISH_T1	3	3	0	1.07	1.53	0.46	-0.67	-0.69	0	0	0	0	0	0
2/21/2025 11:08	41302	FISH_T2	5	2	-3	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/21/2025 11:08	41304	FISH_T2	1	1	0	0	0	0	0.21	0.19	0	0	0	0	0	0
2/21/2025 11:08	41301	FISH_T1	3	3	0	1.07	1.53	0.46	-0.67	-0.69	0	0	0	0	0	0
2/21/2025 11:09	66203	SISP_T2	0	1	1	0	1	1	-1.22	-1.24	2	2	0	1800	1800	0
2/21/2025 11:11	66201	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 11:11	66203	SISP_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
2/21/2025 11:15	61303	EARL_T1	0	0	0	0	0	0	1.02	1.03	0	0	0	0	0	0
2/21/2025 11:15	54505	ENOL_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
2/21/2025 11:15	54506	ENOL_T2	0	0	0	0	0	0	0.3	0.35	1	1	0	600	600	0
2/21/2025 11:15	61304	EARL_T1	0	0	0	0	0	0	-0.54	-0.56	1	1	0	600	600	0
2/21/2025 11:15	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 11:16	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 11:16	61303	EARL_T1	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
2/21/2025 11:17	45802	HEGI_T2	43	47	4	0.95	1.75	0.8	0.42	0.34	0	0	0	0	0	0
2/21/2025 11:19	53501	EVIL_T2	3	3	0	0.63	0.9	0.27	-1.23	-1.19	2	2	0	1200	1200	0
2/21/2025 11:19	53502	EVIL_T2	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
2/21/2025 11:19	45802	HEGI_T2	43	47	4	0.95	1.75	0.8	0.42	0.34	0	0	0	0	0	0
2/21/2025 11:21	40602	PIGR_T1	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
2/21/2025 11:21	40603	PIGR_T1	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
2/21/2025 11:21	40601	PIGR_T1	76	184	108	0.26	0.36	0.1	0.1	0.12	0	0	0	0	0	0
2/21/2025 11:22	45003	LIME_2	18	11	-7	0.6	1.28	0.68	0.56	0.53	0	0	0	0	0	0
2/21/2025 11:22	40603	PIGR_T1	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
2/21/2025 11:22	40601	PIGR_T1	76	184	108	0.26	0.36	0.1	0.1	0.12	0	0	0	0	0	0
2/21/2025 11:22	40602	PIGR_T1	0	4	4	0	0.23	0.23	0.26	0.24	0	0	0	0	0	0
2/21/2025 11:22	45001	LIME_2	32	26	-6	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
2/21/2025 11:22	45002	LIME_2	1	2	1	5	2.95	-2.05	0.78	0.75	0	0	0	0	0	0
2/21/2025 11:23	45002	LIME_2	1	2	1	5	2.95	-2.05	0	0	0	0	0	0	0	0
2/21/2025 11:23	40602	PIGR_T1	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
2/21/2025 11:23	51201	MTON_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 11:23	40601	PIGR_T1	76	184	108	0.26	0.36	0.1	0	0	0	0	0	0	0	0
2/21/2025 11:23	40603	PIGR_T1	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
2/21/2025 11:23	45003	LIME_2	18	11	-7	0.6	1.28	0.68	0	0	0	0	0	0	0	0
2/21/2025 11:23	67401	WAKE_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/21/2025 11:23	67402	WAKE_T2	2	5	3	0.15	0.36	0.21	0.34	0.35	0	0	0	0	0	0
2/21/2025 11:23	45001	LIME_2	32	26	-6	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
2/21/2025 11:24	45002	LIME_2	1	2	1	5	2.95	-2.05	0	0	0	0	0	0	0	0
2/21/2025 11:24	40601	PIGR_T1	76	184	108	0.26	0.36	0.1	0	0	0	0	0	0	0	0
2/21/2025 11:24	45001	LIME_2	32	26	-6	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
2/21/2025 11:24	40603	PIGR_T1	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
2/21/2025 11:24	45003	LIME_2	18	11	-7	0.6	1.28	0.68	2.23	2.14	0	0	0	0	0	0
2/21/2025 11:24	67401	WAKE_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/21/2025 11:24	40602	PIGR_T1	0	4	4	0	0.23	0.23	0.26	0.24	0	0	0	0	0	0
2/21/2025 11:24	67402	WAKE_T2	2	5	3	0.15	0.36	0.21	0.34	0.35	0	0	0	0	0	0
2/21/2025 11:25	59101	WALK_T2	1	1	0	1.8	0.8	-1	1.51	1.63	0	0	0	0	0	0
2/21/2025 11:25	59102	WALK_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
2/21/2025 11:25	64903	MILL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 11:25	64902	MILL_T2	0	0	0	0	0	0	-0.6	-0.61	1	1	0	900	900	0
2/21/2025 11:26	40601	PIGR_T1	76	184	108	0.26	0.36	0.1	0.1	0.12	0	0	0	0	0	0
2/21/2025 11:26	40602	PIGR_T1	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
2/21/2025 11:26	40603	PIGR_T1	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
2/21/2025 11:27	66203	SISP_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
2/21/2025 11:27	43402	BENT_T1	1	2	1	0.3	0.65	0.35	-2.49	-2.49	3	3	0	2700	2700	0
2/21/2025 11:29	60803	BUCK_T1	21	22	1	0.4	0.49	0.09	0	0	0	0	0	0	0	0
2/21/2025 11:29	60801	BUCK_T1	14	14	0	0.18	0.26	0.08	0	0	0	0	0	0	0	0
2/21/2025 11:30	60803	BUCK_T1	22	22	0	0.47	0.54	0.07	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/21/2025 11:30	60801	BUCK_T1	13	20	7	0.22	0.29	0.07	0.28	0.28	0	0	0	0	0	0
2/21/2025 11:30	10805	CHHI_T2	1	1	0	7.7	7.6	-0.1	-1.11	-1.14	1	1	0	600	600	0
2/21/2025 11:31	60803	BUCK_T1	22	22	0	0.47	0.54	0.07	-0.86	-0.9	2	2	0	1200	1200	0
2/21/2025 11:31	60801	BUCK_T1	13	20	7	0.22	0.29	0.07	0	0	0	0	0	0	0	0
2/21/2025 11:32	47202	FAXO_T2	0	0	0	0	0	0	-2.2	-2.25	0	0	0	0	0	0
2/21/2025 11:34	17802	GILB_T1	1	0	-1	0.4	0	-0.4	0.2	0.26	1	0	0	0	0	0
2/21/2025 11:36	65603	QVIL_T2	4	40	36	0.13	0.13	0	0	0	0	0	0	0	0	0
2/21/2025 11:36	65602	QVIL_T2	17	33	16	0.31	0.32	0.01	0	0	0	0	0	0	0	0
2/21/2025 11:36	65601	QVIL_T2	46	55	9	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
2/21/2025 11:36	65604	QVIL_T2	2	3	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/21/2025 11:36	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 11:37	58402	MORO_T1	0	0	0	0	0	0	0.24	0.22	2	2	0	1500	1500	0
2/21/2025 11:37	60503	MOJO_T2	0	0	0	0	0	0	-0.86	0.02	1	0	-1	900	0	-900
2/21/2025 11:37	58401	MORO_T1	0	0	0	0	0	0	-0.85	-0.88	1	1	0	600	600	0
2/21/2025 11:38	42601	TUSC_T1	34	33	-1	1.44	0.91	-0.53	-0.1	-0.1	2	2	0	1800	1800	0
2/21/2025 11:39	51202	MTON_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 11:39	58401	MORO_T1	0	0	0	0	0	0	-0.85	-0.88	1	1	0	600	600	0
2/21/2025 11:39	60503	MOJO_T2	0	0	0	0	0	0	-0.86	0.02	1	0	-1	900	0	-900
2/21/2025 11:39	51204	MTON_T2	1	2	1	0.1	0.2	0.1	0.3	0.29	0	0	0	0	0	0
2/21/2025 11:40	65603	QVIL_T2	4	40	36	0.13	0.13	0	0	0	0	0	0	0	0	0
2/21/2025 11:40	65604	QVIL_T2	2	3	1	0.6	0.5	-0.1	0.52	0.55	0	0	0	0	0	0
2/21/2025 11:40	65601	QVIL_T2	46	55	9	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
2/21/2025 11:40	66004	BERW_T2	2	3	1	0.2	0	-0.2	-0.56	-0.64	0	0	0	0	0	0
2/21/2025 11:40	67904	WNHO_T1	0	0	0	0	0	0	-1.08	-1.08	1	1	0	1200	1200	0
2/21/2025 11:40	58401	MORO_T1	0	0	0	0	0	0	-0.85	-0.88	1	1	0	600	600	0
2/21/2025 11:40	65602	QVIL_T2	17	33	16	0.31	0.32	0.01	0	0	0	0	0	0	0	0
2/21/2025 11:40	58402	MORO_T1	0	0	0	0	0	0	0.24	0.22	2	2	0	1500	1500	0
2/21/2025 11:41	65601	QVIL_T2	46	55	9	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
2/21/2025 11:41	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 11:41	65604	QVIL_T2	2	3	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/21/2025 11:41	65602	QVIL_T2	17	33	16	0.31	0.32	0.01	0	0	0	0	0	0	0	0
2/21/2025 11:41	65603	QVIL_T2	4	40	36	0.13	0.13	0	0.57	0.41	0	0	0	0	0	0
2/21/2025 11:44	11901	ETEX_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/21/2025 11:44	11904	ETEX_T2	0	0	0	0	0	0	-0.71	-0.68	0	0	0	0	0	0
2/21/2025 11:45	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	-0.66	-0.65	1	1	0	600	600	0
2/21/2025 11:45	41802	GOCI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 11:45	41801	GOCI_T2	0	6	6	0	0.23	0.23	0	0	0	0	0	0	0	0
2/21/2025 11:45	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-0.98	1	1	0	600	600	0
2/21/2025 11:46	11901	ETEX_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/21/2025 11:46	52402	GRPA_T2	5	36	31	0.68	0.37	-0.31	0	0	0	0	0	0	0	0
2/21/2025 11:46	52403	GRPA_T2	13	22	9	0.83	0.74	-0.09	0	0	0	0	0	0	0	0
2/21/2025 11:46	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 11:46	52401	GRPA_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
2/21/2025 11:47	52401	GRPA_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
2/21/2025 11:47	52403	GRPA_T2	13	22	9	0.83	0.74	-0.09	-0.49	-0.41	0	0	0	0	0	0
2/21/2025 11:47	52402	GRPA_T2	5	36	31	0.68	0.37	-0.31	0	0	0	0	0	0	0	0
2/21/2025 11:48	54201	PENN_T1	8	8	0	0.75	0.61	-0.14	0.87	0.83	0	0	0	0	0	0
2/21/2025 11:48	47101	MARL_T1	12	26	14	0.64	0.78	0.14	0	0	0	0	0	0	0	0
2/21/2025 11:48	54203	PENN_T1	20	21	1	0.95	0.73	-0.22	0	0	0	0	0	0	0	0
2/21/2025 11:48	47104	MARL_T1	0	0	0	0	0	0	-2.15	-2.13	0	0	0	0	0	0
2/21/2025 11:49	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-0.98	1	1	0	600	600	0
2/21/2025 11:49	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	-0.66	-0.65	1	1	0	600	600	0
2/21/2025 11:50	43202	MVIL_T2	3	10	7	0.43	0.21	-0.22	0	0	0	0	0	0	0	0
2/21/2025 11:50	43201	MVIL_T2	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
2/21/2025 11:51	52403	GRPA_T2	13	22	9	0.83	0.74	-0.09	0	0	0	0	0	0	0	0
2/21/2025 11:51	60503	MOJO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 11:51	52401	GRPA_T2	1	1	0	0.3	0.6	0.3	-0.41	-0.42	0	0	0	0	0	0
2/21/2025 11:51	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 11:51	60502	MOJO_T2	0	0	0	0	0	0	-0.68	-0.32	0	0	0	0	0	0
2/21/2025 11:51	66203	SISP_T2	0	1	1	0	0.7	0.7	-1.19	-1.23	2	2	0	1800	1800	0
2/21/2025 11:51	52402	GRPA_T2	5	36	31	0.68	0.37	-0.31	0	0	0	0	0	0	0	0
2/21/2025 11:52	45001	LIME_2	19	42	23	0.21	0.24	0.03	0	0	0	0	0	0	0	0
2/21/2025 11:52	45002	LIME_2	1	1	0	5.6	4.8	-0.8	0	0	0	0	0	0	0	0
2/21/2025 11:52	45003	LIME_2	4	5	1	1.38	2.75	1.37	0.53	0.42	0	0	0	0	0	0
2/21/2025 11:54	14403	SSLA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 11:54	57205	ROSS_T1	2	2	0	1.35	1.2	-0.15	0.27	0.24	0	0	0	0	0	0
2/21/2025 11:54	67203	TEHI_T1	2	3	1	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
2/21/2025 11:54	51201	MTON_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
2/21/2025 11:54	14401	SSLA_T1	0	4	4	0	0.5	0.5	0	0	0	0	0	0	0	0
2/21/2025 11:54	60301	TWVA_T2	1	3	2	0.1	0.17	0.07	-2.88	-2.92	2	2	0	1800	1800	0
2/21/2025 11:54	67201	TEHI_T1	0	0	0	0	0	0	-0.18	-0.24	1	1	0	900	900	0
2/21/2025 11:55	67204	TEHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 11:55	58401	MORO_T1	0	1	1	0	0.1	0.1	-0.88	-0.87	1	1	0	600	600	0
2/21/2025 11:55	60201	ATGL_T2	108	150	42	0.38	0.45	0.07	0.06	1.01	0	0	0	0	0	0
2/21/2025 11:56	67904	WNHO_T1	0	0	0	0	0	0	-1.08	-1.1	1	1	0	1200	1200	0
2/21/2025 11:58	54201	PENN_T1	8	8	0	0.75	0.61	-0.14	0	0	0	0	0	0	0	0
2/21/2025 11:58	54203	PENN_T1	20	21	1	0.95	0.73	-0.22	0.03	0.03	1	1	0	600	600	0
2/21/2025 12:00	20603	GRWO_T2	44	70	26	0.23	0.26	0.03	-0.92	-0.96	2	2	0	1800	1800	0
2/21/2025 12:01	60201	ATGL_T2	150	10	-140	0.45	0.4	-0.05	0.06	1.01	0	0	0	0	0	0
2/21/2025 12:02	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
2/21/2025 12:02	61303	EARL_T1	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
2/21/2025 12:02	61304	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 12:02	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-0.97	1	1	0	600	600	0
2/21/2025 12:03	61301	EARL_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
2/21/2025 12:03	61301	EARL_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
2/21/2025 12:03	61301	EARL_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
2/21/2025 12:03	61301	EARL_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
2/21/2025 12:03	20603	GRWO_T2	44	70	26	0.23	0.26	0.03	-0.46	-0.48	1	1	0	900	900	0
2/21/2025 12:03	61304	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 12:04	67103	SPRI_T1	0	0	0	0	0	0	-0.02	-0.05	0	0	0	0	0	0
2/21/2025 12:04	67105	SPRI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/21/2025 12:05	57303	MOAL_T2	1	1	0	7.7	7.8	0.1	0	0	0	0	0	0	0	0
2/21/2025 12:05	57306	MOAL_T2	0	0	0	0	0	0	-3	-3.01	1	1	0	1200	1200	0
2/21/2025 12:05	44201	POIN_T1	7	58	51	0.1	0.18	0.08	-1.69	-2.19	2	2	0	2100	2100	0
2/21/2025 12:06	53901	HALI_T2	1	1	0	0.7	0.8	0.1	-3.93	-3.87	0	0	0	0	0	0
2/21/2025 12:06	45002	LIME_2	1	2	1	4.8	2.55	-2.25	0	0	0	0	0	0	0	0
2/21/2025 12:06	45003	LIME_2	5	2	-3	1.22	2.6	1.38	0.42	0.42	0	0	0	0	0	0
2/21/2025 12:06	53902	HALI_T2	2	2	0	3.05	3.1	0.05	0	0	0	0	0	0	0	0
2/21/2025 12:06	53903	HALI_T2	2	2	0	0.35	1.1	0.75	0	0	0	0	0	0	0	0
2/21/2025 12:06	45001	LIME_2	41	26	-15	0.24	0.33	0.09	0	0	0	0	0	0	0	0
2/21/2025 12:07	41205	KENM_T2	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
2/21/2025 12:07	41202	KENM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/21/2025 12:08	67203	TEHI_T1	1	3	2	0.4	0.6	0.2	2.55	2.67	3	3	0	2100	2100	0
2/21/2025 12:10	44201	POIN_T1	7	58	51	0.1	0.18	0.08	-4.39	-4.31	4	4	0	4200	4200	0
2/21/2025 12:10	43402	BENT_T1	2	3	1	0.8	0.7	-0.1	-0.89	-0.89	1	1	0	900	900	0
2/21/2025 12:10	57401	SPAN_T1	4	8	4	0.38	0.33	-0.05	-0.98	-0.94	1	1	0	600	600	0
2/21/2025 12:10	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 12:10	57403	SPAN_T1	4	8	4	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
2/21/2025 12:11	57403	SPAN_T1	4	8	4	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
2/21/2025 12:11	57401	SPAN_T1	4	8	4	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
2/21/2025 12:11	45001	LIME_2	41	26	-15	0.24	0.33	0.09	0	0	0	0	0	0	0	0
2/21/2025 12:11	45002	LIME_2	1	2	1	4.8	2.55	-2.25	0	0	0	0	0	0	0	0
2/21/2025 12:11	45003	LIME_2	5	2	-3	1.22	2.6	1.38	0.42	0.42	0	0	0	0	0	0
2/21/2025 12:12	14802	TREI_T2	1	4	3	0.4	0.23	-0.17	0.57	0.53	0	0	0	0	0	0
2/21/2025 12:12	66203	SISP_T2	0	1	1	0	0.7	0.7	-1.23	-1.23	2	2	0	1800	1800	0
2/21/2025 12:12	66201	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 12:12	14801	TREI_T2	1	4	3	1	0.7	-0.3	0	0	0	0	0	0	0	0
2/21/2025 12:13	46203	DANV_T2	147	96	-51	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
2/21/2025 12:13	46201	DANV_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/21/2025 12:13	46004	BERW_T2	1	3	2	0.1	0.4	0.3	-0.61	-0.62	0	0	0	0	0	0
2/21/2025 12:13	46204	DANV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/21/2025 12:13	46205	DANV_T2	0	0	0	0	0	0	-0.72	-0.74	1	1	0	1200	1200	0
2/21/2025 12:14	57403	SPAN_T1	4	8	4	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
2/21/2025 12:14	57401	SPAN_T1	4	8	4	0.38	0.33	-0.05	-0.98	-0.94	1	1	0	600	600	0
2/21/2025 12:14	46201	DANV_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/21/2025 12:14	40505	CRES_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/21/2025 12:14	24703	FLND_T2	18	22	4	0.67	1.25	0.58	0	0	0	0	0	0	0	0
2/21/2025 12:14	46203	DANV_T2	147	96	-51	0.55	0.53	-0.02	-0.8	-0.77	0	0	0	0	0	0
2/21/2025 12:14	24702	FLND_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/21/2025 12:14	40504	CRES_T1	0	0	0	0	0	0	-1.68	-1.61	0	0	0	0	0	0
2/21/2025 12:14	14802	TREI_T2	1	4	3	0.4	0.23	-0.17	0.57	0.53	0	0	0	0	0	0
2/21/2025 12:14	46204	DANV_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/21/2025 12:14	14801	TREI_T2	1	4	3	1	0.7	-0.3	0	0	0	0	0	0	0	0
2/21/2025 12:14	24701	FLND_T2	24	40	16	0.8	0.6	-0.2	-0.74	-0.76	0	0	0	0	0	0
2/21/2025 12:15	40505	CRES_T1	0	1	1	0	0.3	0.3	0.39	0.42	0	0	0	0	0	0
2/21/2025 12:15	46203	DANV_T2	90	107	17	0.51	0.57	0.06	-0.8	-0.77	0	0	0	0	0	0
2/21/2025 12:15	46201	DANV_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/21/2025 12:15	40504	CRES_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 12:16	40505	CRES_T1	0	1	1	0	0.3	0.3	0.39	0.42	0	0	0	0	0	0
2/21/2025 12:16	40504	CRES_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 12:17	46203	DANV_T2	90	107	17	0.51	0.57	0.06	-0.8	-0.77	0	0	0	0	0	0
2/21/2025 12:17	57403	SPAN_T1	3	9	6	0.27	0.36	0.09	0	0	0	0	0	0	0	0
2/21/2025 12:17	46201	DANV_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/21/2025 12:17	57401	SPAN_T1	6	9	3	0.27	0.41	0.14	-0.98	-0.94	1	1	0	600	600	0
2/21/2025 12:17	20603	GRWO_T2	26	78	52	0.21	0.27	0.06	0	0	0	0	0	0	0	0
2/21/2025 12:17	20601	GRWO_T2	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
2/21/2025 12:18	40505	CRES_T1	0	1	1	0	0.3	0.3	0.39	0.42	0	0	0	0	0	0
2/21/2025 12:18	64203	KINZ_T1	0	0	0	0	0	0	-0.73	-0.23	3	2	-1	2100	1800	-300
2/21/2025 12:18	40504	CRES_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 12:18	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/21/2025 12:19	41202	KENM_T2	0	1	1	0	0.2	0.2	-0.4	-0.43	0	0	0	0	0	0
2/21/2025 12:20	52403	GRPA_T2	20	70	50	0.72	0.84	0.12	-0.44	-0.46	0	0	0	0	0	0
2/21/2025 12:20	13105	NHAM_T2	17	17	0	1.43	0.46	-0.97	0	0	0	0	0	0	0	0
2/21/2025 12:20	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/21/2025 12:20	13103	NHAM_T2	0	0	0	0	0	0	-1.56	-1.54	1	1	0	600	600	0
2/21/2025 12:20	52401	GRPA_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
2/21/2025 12:20	64203	KINZ_T1	0	0	0	0	0	0	-0.73	-0.23	3	2	-1	2100	1800	-300
2/21/2025 12:20	52402	GRPA_T2	29	44	15	0.58	0.36	-0.22	0	0	0	0	0	0	0	0
2/21/2025 12:21	52004	LING_T2	2	2	0	5.4	5.65	0.25	0.67	0.73	0	0	0	0	0	0
2/21/2025 12:21	51204	MTON_T2	0	2	2	0	0.1	0.1	0.25	0.25	0	0	0	0	0	0
2/21/2025 12:22	65603	QVIL_T2	260	374	114	0.25	0.31	0.06	0.2	0.3	0	0	0	0	0	0
2/21/2025 12:22	65602	QVIL_T2	39	66	27	0.38	0.38	0	0	0	0	0	0	0	0	0
2/21/2025 12:22	65604	QVIL_T2	3	6	3	0.63	0.55	-0.08	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/21/2025 12:22	65601	QVIL_T2	104	197	93	0.29	0.39	0.1	0	0	0	0	0	0	0	0
2/21/2025 12:23	45001	LIME_2	3	27	24	0.47	0.33	-0.14	0	0	0	0	0	0	0	0
2/21/2025 12:23	45002	LIME_2	1	2	1	4.5	2.55	-1.95	0	0	0	0	0	0	0	0
2/21/2025 12:23	45003	LIME_2	2	12	10	2.9	2.45	-0.45	0.42	0.57	0	0	0	0	0	0
2/21/2025 12:24	64101	REFR_T1	3	5	2	0.9	0.64	-0.26	0.07	0.06	0	0	0	0	0	0
2/21/2025 12:24	15703	TANN_T2	1	1	0	8	7.8	-0.2	0	0	0	0	0	0	0	0
2/21/2025 12:24	15702	TANN_T2	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
2/21/2025 12:25	58401	MORO_T1	1	1	0	0.1	0.6	0.5	-0.91	-0.91	1	1	0	600	600	0
2/21/2025 12:25	65602	QVIL_T2	39	66	27	0.38	0.38	0	0	0	0	0	0	0	0	0
2/21/2025 12:25	65604	QVIL_T2	3	6	3	0.63	0.55	-0.08	0	0	0	0	0	0	0	0
2/21/2025 12:25	64101	REFR_T1	3	5	2	0.9	0.64	-0.26	0	0	0	0	0	0	0	0
2/21/2025 12:25	65603	QVIL_T2	260	374	114	0.25	0.31	0.06	0	0	0	0	0	0	0	0
2/21/2025 12:25	58202	NEWV_T1	1	10	9	0.4	0.5	0.1	-0.15	-0.09	0	0	0	0	0	0
2/21/2025 12:25	65601	QVIL_T2	104	197	93	0.29	0.39	0.1	0	0	0	0	0	0	0	0
2/21/2025 12:25	58201	NEWV_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/21/2025 12:26	66502	SMAN_T2	7	8	1	0.31	0.39	0.08	0	0	0	0	0	0	0	0
2/21/2025 12:26	14802	TREI_T2	2	3	1	0.3	0.27	-0.03	0.53	0.55	0	0	0	0	0	0
2/21/2025 12:26	66504	SMAN_T2	3	3	0	0.33	0.73	0.4	-0.31	-0.31	0	0	0	0	0	0
2/21/2025 12:26	14801	TREI_T2	2	4	2	0.7	0.77	0.07	0	0	0	0	0	0	0	0
2/21/2025 12:26	66501	SMAN_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
2/21/2025 12:26	66505	SMAN_T2	2	4	2	0.6	0.65	0.05	0	0	0	0	0	0	0	0
2/21/2025 12:26	64101	REFR_T1	3	5	2	0.9	0.64	-0.26	0.07	0.06	0	0	0	0	0	0
2/21/2025 12:27	65602	QVIL_T2	39	66	27	0.38	0.38	0	0.3	0.29	0	0	0	0	0	0
2/21/2025 12:27	65604	QVIL_T2	3	6	3	0.63	0.55	-0.08	0	0	0	0	0	0	0	0
2/21/2025 12:27	65601	QVIL_T2	104	197	93	0.29	0.39	0.1	0	0	0	0	0	0	0	0
2/21/2025 12:27	65603	QVIL_T2	260	374	114	0.25	0.31	0.06	0	0	0	0	0	0	0	0
2/21/2025 12:28	15702	TANN_T2	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
2/21/2025 12:28	46004	BERW_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
2/21/2025 12:28	15703	TANN_T2	1	1	0	8	7.8	-0.2	0	0	0	0	0	0	0	0
2/21/2025 12:28	46002	BERW_T2	0	0	0	0	0	0	-0.89	-0.82	1	1	0	900	900	0
2/21/2025 12:29	44801	EDAN_T2	1	0	-1	0.1	0	-0.1	-0.32	-0.37	0	0	0	0	0	0
2/21/2025 12:29	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 12:31	61703	ELIZ_T1	3	4	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
2/21/2025 12:31	61701	ELIZ_T1	1	2	1	5.9	3.1	-2.8	0.11	0	0	0	0	0	0	0
2/21/2025 12:32	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 12:32	10901	COOP_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/21/2025 12:32	53502	EVIL_T2	1	0	-1	0.6	0	-0.6	-0.43	-0.46	2	2	0	1200	1200	0
2/21/2025 12:32	53501	EVIL_T2	5	2	-3	0.66	0.9	0.24	0	0	0	0	0	0	0	0
2/21/2025 12:33	63601	LETO_T1	10	10	0	1.02	0.86	-0.16	0	0	0	0	0	0	0	0
2/21/2025 12:33	53502	EVIL_T2	1	0	-1	0.6	0	-0.6	-0.43	-0.46	2	2	0	1200	1200	0
2/21/2025 12:33	63602	LETO_T1	1	1	0	0.6	0.6	0	-0.39	-0.39	0	0	0	0	0	0
2/21/2025 12:33	53501	EVIL_T2	5	2	-3	0.66	0.9	0.24	0	0	0	0	0	0	0	0
2/21/2025 12:34	52402	GRPA_T2	16	48	32	0.36	0.52	0.16	0	0	0	0	0	0	0	0
2/21/2025 12:34	63601	LETO_T1	10	10	0	1.02	0.86	-0.16	0	0	0	0	0	0	0	0
2/21/2025 12:34	52401	GRPA_T2	1	4	3	0.3	0.3	0	0	0	0	0	0	0	0	0
2/21/2025 12:34	41204	KENM_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
2/21/2025 12:34	41202	KENM_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/21/2025 12:34	52403	GRPA_T2	24	70	46	0.82	0.53	-0.29	-0.46	-0.49	0	0	0	0	0	0
2/21/2025 12:34	46802	HEPB_T1	5	13	8	0.78	0.39	-0.39	-1.23	-1.22	0	0	0	0	0	0
2/21/2025 12:34	63602	LETO_T1	1	1	0	0.6	0.6	0	-0.39	-0.39	0	0	0	0	0	0
2/21/2025 12:35	65503	MOJO_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/21/2025 12:35	17802	GILB_T1	1	1	0	0.3	0.6	0.3	0.24	0.23	0	0	0	0	0	0
2/21/2025 12:35	63601	LETO_T1	10	10	0	1.02	0.86	-0.16	0.87	0.95	0	0	0	0	0	0
2/21/2025 12:35	15703	TANN_T2	1	1	0	7.9	7.8	-0.1	0	0	0	0	0	0	0	0
2/21/2025 12:35	15702	TANN_T2	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
2/21/2025 12:35	63602	LETO_T1	1	1	0	0.6	0.6	0	-0.39	-0.39	0	0	0	0	0	0
2/21/2025 12:35	65502	MOJO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/21/2025 12:36	25501	MADI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 12:36	25503	MADI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 12:37	63601	LETO_T1	10	10	0	1.02	0.86	-0.16	0.95	0.87	0	0	0	0	0	0
2/21/2025 12:37	63602	LETO_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
2/21/2025 12:42	13905	SEID_T1	0	0	0	0	0	0	-0.96	-0.95	1	1	0	1200	1200	0
2/21/2025 12:42	13904	SEID_T1	38	38	0	1.24	1.13	-0.11	0	0	0	0	0	0	0	0
2/21/2025 12:42	67901	WNHO_T2	0	2	2	0	0.75	0.75	0.34	0.43	1	1	0	900	900	0
2/21/2025 12:43	46001	BERW_T1	0	0	0	0	0	0	0.43	0.39	0	0	0	0	0	0
2/21/2025 12:44	29402	BELT_T1	8	49	41	1.54	0.43	-1.11	0	0	0	0	0	0	0	0
2/21/2025 12:44	29401	BELT_T1	5	44	39	0.18	0.18	0	0	0	1	1	0	900	900	0
2/21/2025 12:44	62106	ELAN_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/21/2025 12:44	62105	ELAN_T1	3	4	1	0.3	0.33	0.03	0.5	0.49	0	0	0	0	0	0
2/21/2025 12:45	52502	PROG_T2	0	0	0	0	0	0	0.55	0.5	0	0	0	0	0	0
2/21/2025 12:45	52401	GRPA_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
2/21/2025 12:45	40802	EXCH_T2	3	3	0	0.5	0.33	-0.17	-0.53	-0.5	0	0	0	0	0	0
2/21/2025 12:45	52402	GRPA_T2	42	43	1	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
2/21/2025 12:45	52503	PROG_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
2/21/2025 12:45	40801	EXCH_T2	2	3	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/21/2025 12:45	52403	GRPA_T2	68	65	-3	0.64	0.88	0.24	-0.49	-0.47	0	0	0	0	0	0
2/21/2025 12:45	41801	GOCI_T2	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/21/2025 12:47	41801	GOCI_T2	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/21/2025 12:48	24702	FLND_T2	6	1	-5	0.35	0.2	-0.15	-0.02	0.22	1	1	0	1200	1200	0
2/21/2025 12:48	24703	FLND_T2	0	13	13	0	0.3	0.3	0	0	0	0	0	0	0	0
2/21/2025 12:48	24701	FLND_T2	17	13	-4	0.8	1.1	0.3	0	0	0	0	0	0	0	0
2/21/2025 12:49	64204	KINZ_T1	1	3	2	0.2	0.73	0.53	0	0	0	0	0	0	0	0
2/21/2025 12:49	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
2/21/2025 12:49	64203	KINZ_T1	0	2	2	0	0	0	-0.09	-0.07	2	2	0	1800	1800	0
2/21/2025 12:49	62106	ELAN_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/21/2025 12:49	62105	ELAN_T1	2	3	1	0.15	0.4	0.25	0.5	0.49	0	0	0	0	0	0
2/21/2025 12:49	54504	ENOL_T2	0	0	0	0	0	0	-0.96	-0.98	1	1	0	600	600	0
2/21/2025 12:50	52403	GRPA_T2	68	65	-3	0.64	0.88	0.24	-0.49	-0.47	0	0	0	0	0	0
2/21/2025 12:50	52402	GRPA_T2	42	43	1	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
2/21/2025 12:50	52401	GRPA_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
2/21/2025 12:52	54601	SUMM_T2	3	6	3	0.73	0.55	-0.18	0	0	0	0	0	0	0	0
2/21/2025 12:52	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 12:52	57201	ROSS_T1	2	5	3	0.15	0.22	0.07	0	0	0	0	0	0	0	0
2/21/2025 12:52	54602	SUMM_T2	0	0	0	0	0	0	-2.34	-2.37	1	1	0	600	600	0
2/21/2025 12:52	57205	ROSS_T1	2	2	0	1.4	1.55	0.15	0	0	0	0	0	0	0	0
2/21/2025 12:53	66203	SISP_T2	0	1	1	0	0.2	0.2	-1.22	-1.2	2	2	0	1800	1800	0
2/21/2025 12:53	65701	RVIL_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
2/21/2025 12:53	54202	PENN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 12:53	65702	RVIL_T2	0	0	0	0	0	0	-1.32	-1.39	1	1	0	600	600	0
2/21/2025 12:53	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 12:53	65703	RVIL_T1	2	2	0	0.35	1	0.65	-1.17	-1.24	1	1	0	900	900	0
2/21/2025 12:54	65703	RVIL_T1	2	2	0	0.35	1	0.65	-1.17	-1.24	1	1	0	900	900	0
2/21/2025 12:54	65701	RVIL_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
2/21/2025 12:55	57201	ROSS_T1	2	5	3	0.15	0.22	0.07	-0.54	-0.51	0	0	0	0	0	0
2/21/2025 12:55	57205	ROSS_T1	2	2	0	1.4	1.55	0.15	0	0	0	0	0	0	0	0
2/21/2025 12:56	65702	RVIL_T2	0	0	0	0	0	0	-1.32	-1.39	1	1	0	600	600	0
2/21/2025 12:56	46001	BERW_T1	0	1	1	0	0	0	0.39	0.8	0	0	0	0	0	0
2/21/2025 12:57	57205	ROSS_T1	2	2	0	1.4	1.55	0.15	0	0	0	0	0	0	0	0
2/21/2025 12:57	57201	ROSS_T1	2	5	3	0.15	0.22	0.07	-0.54	-0.51	0	0	0	0	0	0
2/21/2025 12:57	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 12:59	67901	WNHO_T2	2	2	0	0.35	0.75	0.4	0.43	0.6	1	1	0	900	900	0
2/21/2025 12:59	46001	BERW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 13:00	46001	BERW_T1	0	1	1	0	0	0	0.39	0.8	0	0	0	0	0	0
2/21/2025 13:03	52401	GRPA_T2	4	1	-3	0.4	0.2	-0.2	-0.5	-0.47	0	0	0	0	0	0
2/21/2025 13:03	40801	EXCH_T2	3	2	-1	0.2	0.25	0.05	-0.3	-0.34	1	1	0	1200	1200	0
2/21/2025 13:03	52403	GRPA_T2	61	26	-35	0.59	0.99	0.4	0	0	0	0	0	0	0	0
2/21/2025 13:03	40802	EXCH_T2	3	1	-2	0.33	0.1	-0.23	0	0	0	0	0	0	0	0
2/21/2025 13:03	52402	GRPA_T2	41	34	-7	0.52	0.38	-0.14	0	0	0	0	0	0	0	0
2/21/2025 13:04	61505	EPET_T1	0	0	0	0	0	0	0.43	0.38	0	0	0	0	0	0
2/21/2025 13:04	61502	EPET_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/21/2025 13:06	45002	LIME_2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
2/21/2025 13:06	45001	LIME_2	13	21	8	0.21	0.26	0.05	0	0	0	0	0	0	0	0
2/21/2025 13:06	45003	LIME_2	3	3	0	1.77	2.3	0.53	0.43	0.45	0	0	0	0	0	0
2/21/2025 13:07	45002	LIME_2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
2/21/2025 13:07	45001	LIME_2	13	21	8	0.21	0.26	0.05	0	0	0	0	0	0	0	0
2/21/2025 13:07	45003	LIME_2	3	3	0	1.77	2.3	0.53	0	0	0	0	0	0	0	0
2/21/2025 13:08	57205	ROSS_T1	2	2	0	1.55	1.4	-0.15	0	0	0	0	0	0	0	0
2/21/2025 13:08	57201	ROSS_T1	5	0	-5	0.22	0	-0.22	0	0	0	0	0	0	0	0
2/21/2025 13:09	54203	PENN_T1	21	20	-1	1.19	1.18	-0.01	0	0	0	0	0	0	0	0
2/21/2025 13:09	22001	BOHE_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
2/21/2025 13:09	54201	PENN_T1	10	11	1	0.77	0.73	-0.04	0.84	0.84	0	0	0	0	0	0
2/21/2025 13:09	45001	LIME_2	13	21	8	0.21	0.26	0.05	0	0	0	0	0	0	0	0
2/21/2025 13:09	66203	SISP_T2	1	1	0	0.2	0.3	0.1	-1.2	-1.13	2	2	0	1800	1800	0
2/21/2025 13:09	22003	BOHE_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/21/2025 13:09	45002	LIME_2	1	1	0	5.1	5.3	0.2	0.65	0.6	0	0	0	0	0	0
2/21/2025 13:09	45003	LIME_2	3	3	0	1.77	2.3	0.53	0	0	0	0	0	0	0	0
2/21/2025 13:10	14802	TREI_T2	1	3	2	0.2	0.2	0	0.53	0.5	0	0	0	0	0	0
2/21/2025 13:10	14801	TREI_T2	3	4	1	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/21/2025 13:10	54203	PENN_T1	21	20	-1	1.19	1.18	-0.01	-0.01	0.02	1	1	0	600	600	0
2/21/2025 13:10	54201	PENN_T1	10	11	1	0.77	0.73	-0.04	0	0	0	0	0	0	0	0
2/21/2025 13:13	40505	CRES_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
2/21/2025 13:14	62605	ENGL_T1	0	2	2	0	0.4	0.4	-0.8	-0.79	0	0	0	0	0	0
2/21/2025 13:14	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 13:14	40505	CRES_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
2/21/2025 13:14	62602	ENGL_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
2/21/2025 13:14	54505	ENOL_T2	1	2	1	1	0.5	-0.5	-0.66	-0.67	1	1	0	600	600	0
2/21/2025 13:14	62607	ENGL_T1	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
2/21/2025 13:14	62604	ENGL_T1	4	4	0	0.18	0.2	0.02	0	0	0	0	0	0	0	0
2/21/2025 13:14	62606	ENGL_T1	102	94	-8	0.34	0.27	-0.07	0	0	0	0	0	0	0	0
2/21/2025 13:15	62602	ENGL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/21/2025 13:15	62607	ENGL_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/21/2025 13:15	62604	ENGL_T1	2	9	7	0.1	0.19	0.09	-1.02	-1.01	1	1	0	600	600	0
2/21/2025 13:15	62606	ENGL_T1	65	102	37	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
2/21/2025 13:15	62605	ENGL_T1	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
2/21/2025 13:16	54203	PENN_T1	19	20	1	1.06	1.18	0.12	0	0	0	0	0	0	0	0
2/21/2025 13:16	62607	ENGL_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/21/2025 13:16	10903	COOP_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/21/2025 13:16	62606	ENGL_T1	65	102	37	0.29	0.27	-0.02	-1.49	-1.35	1	1	0	900	900	0
2/21/2025 13:16	10901	COOP_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 13:16	46803	HEPB_T2	2	3	1	0.4	0.2	-0.2	0.5	0.5	0	0	0	0	0	0
2/21/2025 13:16	40504	CRES_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 13:16	40505	CRES_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
2/21/2025 13:16	62604	ENGL_T1	2	9	7	0.1	0.19	0.09	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/21/2025 13:16	53501	EVIL_T2	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
2/21/2025 13:16	46801	HEPB_T2	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
2/21/2025 13:16	53502	EVIL_T2	1	1	0	1	0.3	-0.7	0.09	0.09	1	1	0	600	600	0
2/21/2025 13:16	62602	ENGL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/21/2025 13:16	54201	PENN_T1	11	11	0	0.55	0.74	0.19	0.84	0.84	0	0	0	0	0	0
2/21/2025 13:16	62605	ENGL_T1	0	4	4	0	0.28	0.28	-0.8	-0.79	0	0	0	0	0	0
2/21/2025 13:17	40504	CRES_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 13:17	40505	CRES_T1	0	0	0	0	0	0	0.74	0.78	0	0	0	0	0	0
2/21/2025 13:18	40504	CRES_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 13:18	62604	ENGL_T1	2	9	7	0.1	0.19	0.09	0	0	0	0	0	0	0	0
2/21/2025 13:18	62605	ENGL_T1	0	4	4	0	0.28	0.28	-0.8	-0.79	0	0	0	0	0	0
2/21/2025 13:18	40505	CRES_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
2/21/2025 13:18	62607	ENGL_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/21/2025 13:18	62602	ENGL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/21/2025 13:18	62606	ENGL_T1	65	102	37	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
2/21/2025 13:18	57402	SPAN_T2	1	1	0	0.3	0.2	-0.1	-0.52	-0.5	0	0	0	0	0	0
2/21/2025 13:18	54505	ENOL_T2	1	2	1	0.8	0.5	-0.3	-0.66	-0.67	1	1	0	600	600	0
2/21/2025 13:19	46801	HEPB_T2	2	2	0	0.3	0.35	0.05	0.59	0.61	0	0	0	0	0	0
2/21/2025 13:19	46803	HEPB_T2	2	3	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/21/2025 13:20	45702	LIND_T2	2	2	0	0.9	0.9	0	-0.45	-0.48	0	0	0	0	0	0
2/21/2025 13:20	45701	LIND_T2	0	0	0	0	0	0	-1.64	-1.65	0	0	0	0	0	0
2/21/2025 13:20	52004	LING_T2	2	2	0	5.65	5.75	0.1	0	0	0	0	0	0	0	0
2/21/2025 13:20	50506	MECH_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
2/21/2025 13:20	50501	MECH_T1	4	4	0	0.7	0.83	0.13	0	0	0	0	0	0	0	0
2/21/2025 13:20	50502	MECH_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
2/21/2025 13:21	50506	MECH_T1	0	1	1	0	1	1	0.08	0.11	0	0	0	0	0	0
2/21/2025 13:21	50501	MECH_T1	4	4	0	0.7	0.83	0.13	0	0	0	0	0	0	0	0
2/21/2025 13:21	50502	MECH_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
2/21/2025 13:21	43202	MVIL_T2	45	43	-2	0.25	0.23	-0.02	-0.58	-0.65	0	0	0	0	0	0
2/21/2025 13:21	64801	MONE_T2	139	160	21	0.48	0.63	0.15	83.96	83.96	0	0	0	0	0	0
2/21/2025 13:21	45002	LIME_2	1	1	0	5.3	4.8	-0.5	0	0	0	0	0	0	0	0
2/21/2025 13:21	64802	MONE_T2	95	150	55	0.42	0.43	0.01	-0.01	-0.01	0	0	0	0	0	0
2/21/2025 13:21	45001	LIME_2	19	24	5	0.25	0.27	0.02	0	0	0	0	0	0	0	0
2/21/2025 13:21	45003	LIME_2	3	2	-1	1.7	2	0.3	0.45	0.42	0	0	0	0	0	0
2/21/2025 13:22	45002	LIME_2	1	1	0	5.3	4.8	-0.5	0	0	0	0	0	0	0	0
2/21/2025 13:22	42201	SHEN_T2	0	1	1	0	0.1	0.1	0.05	0.06	1	1	0	600	600	0
2/21/2025 13:22	45001	LIME_2	19	24	5	0.25	0.27	0.02	0	0	0	0	0	0	0	0
2/21/2025 13:22	59003	MIFF_T1	0	0	0	0	0	0	0.07	0.02	0	0	0	0	0	0
2/21/2025 13:22	42202	SHEN_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/21/2025 13:22	45003	LIME_2	3	2	-1	1.7	2	0.3	0	0	0	0	0	0	0	0
2/21/2025 13:23	64802	MONE_T2	95	150	55	0.42	0.43	0.01	0	0	0	0	0	0	0	0
2/21/2025 13:23	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 13:23	45001	LIME_2	19	24	5	0.25	0.27	0.02	0	0	0	0	0	0	0	0
2/21/2025 13:23	50502	MECH_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
2/21/2025 13:23	50506	MECH_T1	0	1	1	0	1	1	0.22	0.06	0	0	0	0	0	0
2/21/2025 13:23	64801	MONE_T2	139	160	21	0.48	0.63	0.15	0	0	0	0	0	0	0	0
2/21/2025 13:23	45002	LIME_2	1	1	0	5.3	4.8	-0.5	0.6	0.62	0	0	0	0	0	0
2/21/2025 13:23	56501	ROCK_T2	1	2	1	0.7	0.2	-0.5	-0.98	-1.07	0	0	0	0	0	0
2/21/2025 13:23	56503	ROCK_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/21/2025 13:23	50501	MECH_T1	4	4	0	0.7	0.83	0.13	0	0	0	0	0	0	0	0
2/21/2025 13:23	45003	LIME_2	3	2	-1	1.7	2	0.3	0	0	0	0	0	0	0	0
2/21/2025 13:24	64801	MONE_T2	139	160	21	0.48	0.63	0.15	83.96	83.96	0	0	0	0	0	0
2/21/2025 13:24	56503	ROCK_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/21/2025 13:24	64802	MONE_T2	95	150	55	0.42	0.43	0.01	-0.01	-0.01	0	0	0	0	0	0
2/21/2025 13:24	56501	ROCK_T2	1	2	1	0.7	0.2	-0.5	-0.98	-1.07	0	0	0	0	0	0
2/21/2025 13:24	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 13:26	56501	ROCK_T2	1	2	1	0.7	0.2	-0.5	-0.98	-1.07	0	0	0	0	0	0
2/21/2025 13:26	14402	SSLA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/21/2025 13:26	52503	PROG_T2	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
2/21/2025 13:26	14401	SSLA_T1	0	1	1	0	0.3	0.3	-0.42	-0.47	0	0	0	0	0	0
2/21/2025 13:26	56504	ROCK_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 13:26	56503	ROCK_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/21/2025 13:26	14403	SSLA_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
2/21/2025 13:28	57403	SPAN_T1	5	9	4	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
2/21/2025 13:28	57401	SPAN_T1	4	8	4	0.63	0.4	-0.23	-1.01	-1	1	1	0	600	600	0
2/21/2025 13:29	24103	EHAZ_T1	7	10	3	0.93	1.26	0.33	0	0	0	0	0	0	0	0
2/21/2025 13:29	46002	BERW_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 13:29	57401	SPAN_T1	4	8	4	0.63	0.4	-0.23	0	0	0	0	0	0	0	0
2/21/2025 13:29	24102	EHAZ_T1	37	31	-6	0.89	0.77	-0.12	0	0	0	0	0	0	0	0
2/21/2025 13:29	57403	SPAN_T1	5	9	4	0.4	0.38	-0.02	0.22	0.18	0	0	0	0	0	0
2/21/2025 13:29	46004	BERW_T2	0	2	2	0	0.3	0.3	-0.67	-0.69	0	0	0	0	0	0
2/21/2025 13:29	24101	EHAZ_T1	43	44	1	1.97	1.89	-0.08	0	0	0	0	0	0	0	0
2/21/2025 13:29	24105	EHAZ_T1	27	20	-7	1.57	2.28	0.71	0	0	0	0	0	0	0	0
2/21/2025 13:30	40802	EXCH_T2	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
2/21/2025 13:30	40801	EXCH_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
2/21/2025 13:31	61801	EELI_T2	3	6	3	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
2/21/2025 13:32	52402	GRPA_T2	28	21	-7	0.51	0.23	-0.28	0	0	0	0	0	0	0	0
2/21/2025 13:32	52401	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/21/2025 13:32	52403	GRPA_T2	13	8	-5	1.07	1.34	0.27	0	0	0	0	0	0	0	0
2/21/2025 13:32	40801	EXCH_T2	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
2/21/2025 13:32	52404	GRPA_T2	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
2/21/2025 13:32	40802	EXCH_T2	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
2/21/2025 13:33	61803	EELI_T2	0	0	0	0	0	0	1	0.94	0	0	0	0	0	0
2/21/2025 13:33	61801	EELI_T2	3	6	3	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
2/21/2025 13:37	45001	LIME_2	12	24	12	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
2/21/2025 13:37	45003	LIME_2	2	2	0	2.3	3.7	1.4	0	0	0	0	0	0	0	0
2/21/2025 13:37	45002	LIME_2	1	1	0	4.8	5.6	0.8	0.62	0.59	0	0	0	0	0	0
2/21/2025 13:38	45003	LIME_2	2	2	0	2.3	3.7	1.4	0	0	0	0	0	0	0	0
2/21/2025 13:38	52006	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 13:38	45001	LIME_2	12	24	12	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
2/21/2025 13:38	52004	LING_T2	2	3	1	5.75	4.1	-1.65	0.34	0.35	0	0	0	0	0	0
2/21/2025 13:38	45002	LIME_2	1	1	0	4.8	5.6	0.8	0	0	0	0	0	0	0	0
2/21/2025 13:39	45003	LIME_2	2	2	0	2.3	3.7	1.4	0	0	0	0	0	0	0	0
2/21/2025 13:39	45001	LIME_2	12	24	12	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
2/21/2025 13:39	45002	LIME_2	1	1	0	4.8	5.6	0.8	0.62	0.59	0	0	0	0	0	0
2/21/2025 13:43	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 13:43	41602	CLEV_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/21/2025 13:44	40201	BEGA_T2	2	3	1	0.4	0.4	0	0	0	0	0	0	0	0	0
2/21/2025 13:46	66203	SISP_T2	0	0	0	0	0	0	-1.1	-1.17	2	2	0	1800	1800	0
2/21/2025 13:47	41205	KENM_T2	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
2/21/2025 13:47	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 13:47	41202	KENM_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/21/2025 13:47	52403	GRPA_T2	8	6	-2	1.06	1.18	0.12	-0.44	-0.43	0	0	0	0	0	0
2/21/2025 13:47	52402	GRPA_T2	18	15	-3	0.43	0.27	-0.16	0	0	0	0	0	0	0	0
2/21/2025 13:47	52401	GRPA_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
2/21/2025 13:48	47101	MARL_T1	17	23	6	0.58	1.04	0.46	0	0	0	0	0	0	0	0
2/21/2025 13:48	47104	MARL_T1	0	0	0	0	0	0	-2.19	-2.15	0	0	0	0	0	0
2/21/2025 13:50	43202	MVIL_T2	39	52	13	0.23	0.28	0.05	-0.65	-0.61	0	0	0	0	0	0
2/21/2025 13:51	58102	NEKI_T1	1	1	0	0.5	0.9	0.4	0.47	0.47	0	0	0	0	0	0
2/21/2025 13:51	58101	NEKI_T1	1	2	1	1.3	0.95	-0.35	0	0	0	0	0	0	0	0
2/21/2025 13:52	41205	KENM_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
2/21/2025 13:52	41202	KENM_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/21/2025 13:53	65603	QVIL_T2	403	434	31	0.31	0.32	0.01	0	0	0	0	0	0	0	0
2/21/2025 13:53	65901	SAKR_T2	2	2	0	4.45	4.7	0.25	-1.15	-1.02	1	1	0	900	900	0
2/21/2025 13:53	65904	SAKR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 13:53	65604	QVIL_T2	6	6	0	0.65	0.67	0.02	0.48	0.46	0	0	0	0	0	0
2/21/2025 13:53	65602	QVIL_T2	76	85	9	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
2/21/2025 13:53	65601	QVIL_T2	245	250	5	0.41	0.39	-0.02	0	0	0	0	0	0	0	0
2/21/2025 13:53	65902	SAKR_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/21/2025 13:54	64101	REFR_T1	2	4	2	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
2/21/2025 13:55	64101	REFR_T1	2	4	2	0.7	0.45	-0.25	-0.02	0.03	0	0	0	0	0	0
2/21/2025 13:58	54601	SUMM_T2	4	7	3	0.7	0.61	-0.09	-1.77	-1.77	2	2	0	2100	2100	0
2/21/2025 13:58	57402	SPAN_T2	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
2/21/2025 13:58	57404	SPAN_T2	0	0	0	0	0	0	-0.01	0.05	1	1	0	1200	1200	0
2/21/2025 13:58	54603	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 13:58	64101	REFR_T1	2	4	2	0.7	0.45	-0.25	-0.02	0.03	0	0	0	0	0	0
2/21/2025 13:59	65904	SAKR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 13:59	65902	SAKR_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/21/2025 13:59	65901	SAKR_T2	2	2	0	4.45	4.7	0.25	-1.15	-1.02	1	1	0	900	900	0
2/21/2025 14:00	54601	SUMM_T2	7	7	0	0.61	0.4	-0.21	-3.54	-3.54	4	4	0	4200	4200	0
2/21/2025 14:00	57403	SPAN_T1	9	4	-5	0.42	0.35	-0.07	0	0	0	0	0	0	0	0
2/21/2025 14:00	57401	SPAN_T1	15	2	-13	0.39	0.5	0.11	0	0	0	0	0	0	0	0
2/21/2025 14:00	11202	ELHE_T2	0	0	0	0	0	0	0.43	0.42	1	1	0	1200	1200	0
2/21/2025 14:00	54603	SUMM_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/21/2025 14:02	54601	SUMM_T2	7	7	0	0.61	0.4	-0.21	-1.77	-1.77	2	2	0	2100	2100	0
2/21/2025 14:02	54603	SUMM_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/21/2025 14:03	52403	GRPA_T2	5	6	1	1.44	0.94	-0.5	-0.43	-0.48	0	0	0	0	0	0
2/21/2025 14:03	52401	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/21/2025 14:03	52402	GRPA_T2	10	32	22	0.26	0.34	0.08	0	0	0	0	0	0	0	0
2/21/2025 14:03	54601	SUMM_T2	7	7	0	0.61	0.4	-0.21	-1.77	-1.77	2	2	0	2100	2100	0
2/21/2025 14:03	54603	SUMM_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/21/2025 14:04	54603	SUMM_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/21/2025 14:04	54601	SUMM_T2	7	7	0	0.61	0.4	-0.21	-1.77	-1.77	2	2	0	2100	2100	0
2/21/2025 14:05	59302	MCAL_T1	0	0	0	0	0	0	-0.62	-0.58	1	1	0	600	600	0
2/21/2025 14:05	59301	MCAL_T1	2	3	1	0.3	0.3	0	0	0	0	0	0	0	0	0
2/21/2025 14:07	59001	MIFF_T1	0	11	11	0	0.19	0.19	0	0	0	0	0	0	0	0
2/21/2025 14:07	59003	MIFF_T1	0	1	1	0	0.3	0.3	-0.12	0.6	0	0	0	0	0	0
2/21/2025 14:07	59002	MIFF_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
2/21/2025 14:08	57201	ROSS_T1	9	9	0	0.1	0.16	0.06	0	0	0	0	0	0	0	0
2/21/2025 14:08	57205	ROSS_T1	4	2	-2	0.68	1.1	0.42	0.23	0.22	0	0	0	0	0	0
2/21/2025 14:08	57203	ROSS_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
2/21/2025 14:09	42902	MIDD_T2	1	1	0	1.3	0.4	-0.9	0	0	0	0	0	0	0	0
2/21/2025 14:09	42903	MIDD_T2	1	2	1	0.1	0.3	0.2	0.12	0.15	0	0	0	0	0	0
2/21/2025 14:11	57403	SPAN_T1	9	4	-5	0.42	0.35	-0.07	0	0	0	0	0	0	0	0
2/21/2025 14:11	57401	SPAN_T1	15	2	-13	0.39	0.5	0.11	-0.33	-0.36	0	0	0	0	0	0
2/21/2025 14:12	57205	ROSS_T1	4	2	-2	0.68	1.1	0.42	0	0	0	0	0	0	0	0
2/21/2025 14:12	57403	SPAN_T1	9	4	-5	0.42	0.35	-0.07	0	0	0	0	0	0	0	0
2/21/2025 14:12	57401	SPAN_T1	15	2	-13	0.39	0.5	0.11	-0.33	-0.36	0	0	0	0	0	0
2/21/2025 14:12	67901	WNHO_T2	2	0	-2	0.4	0	-0.4	0.42	0.35	1	1	0	900	900	0
2/21/2025 14:12	57203	ROSS_T1	0	0	0	0	0	0	0	-0.11	0	0	0	0	0	0
2/21/2025 14:12	57201	ROSS_T1	9	9	0	0.1	0.16	0.06	0	0	0	0	0	0	0	0
2/21/2025 14:13	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 14:13	57201	ROSS_T1	9	9	0	0.1	0.16	0.06	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/21/2025 14:13	57203	ROSS_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
2/21/2025 14:13	57205	ROSS_T1	4	2	-2	0.68	1.1	0.42	0	0	0	0	0	0	0	0
2/21/2025 14:13	57401	SPAN_T1	15	2	-13	0.39	0.5	0.11	-0.33	-0.36	0	0	0	0	0	0
2/21/2025 14:13	57403	SPAN_T1	9	4	-5	0.42	0.35	-0.07	0	0	0	0	0	0	0	0
2/21/2025 14:14	57403	SPAN_T1	9	4	-5	0.42	0.35	-0.07	0	0	0	0	0	0	0	0
2/21/2025 14:14	15104	UPHA_T2	0	0	0	0	0	0	0.9	0.89	0	0	0	0	0	0
2/21/2025 14:14	25801	SUTR_T2	2	0	-2	0.55	0	-0.55	-0.62	-0.6	0	0	0	0	0	0
2/21/2025 14:14	15103	UPHA_T2	5	2	-3	0.62	0.55	-0.07	0.4	0.39	0	0	0	0	0	0
2/21/2025 14:14	57401	SPAN_T1	15	2	-13	0.39	0.5	0.11	-0.66	-0.73	0	0	0	0	0	0
2/21/2025 14:14	10602	BLGL_T2	3	3	0	3.13	3.2	0.07	0.45	0.41	0	0	0	0	0	0
2/21/2025 14:15	57402	SPAN_T2	0	1	1	0	0.1	0.1	-0.49	-0.49	0	0	0	0	0	0
2/21/2025 14:15	47201	FAXO_T2	0	0	0	0	0	0	-2.21	-2.23	1	1	0	1200	1200	0
2/21/2025 14:15	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 14:16	18001	ZION_T1	2	2	0	9.2	9.15	-0.05	0	0	0	0	0	0	0	0
2/21/2025 14:18	46102	MACI_T1	0	1	1	0	0.1	0.1	0.71	0.72	0	0	0	0	0	0
2/21/2025 14:20	59003	MIFF_T1	1	0	-1	0.3	0	-0.3	-0.12	0.6	0	0	0	0	0	0
2/21/2025 14:20	59001	MIFF_T1	11	0	-11	0.19	0	-0.19	0	0	0	0	0	0	0	0
2/21/2025 14:20	59002	MIFF_T1	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
2/21/2025 14:21	42301	MOWR_T2	0	0	0	0	0	0	-0.34	-0.3	0	0	0	0	0	0
2/21/2025 14:22	59002	MIFF_T1	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
2/21/2025 14:22	59001	MIFF_T1	11	0	-11	0.19	0	-0.19	0	0	0	0	0	0	0	0
2/21/2025 14:22	59003	MIFF_T1	1	0	-1	0.3	0	-0.3	0.6	0.8	0	0	0	0	0	0
2/21/2025 14:22	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 14:23	59003	MIFF_T1	1	0	-1	0.3	0	-0.3	0.6	0.8	0	0	0	0	0	0
2/21/2025 14:23	50506	MECH_T1	0	1	1	0	0.7	0.7	0.07	0.05	0	0	0	0	0	0
2/21/2025 14:23	59001	MIFF_T1	11	0	-11	0.19	0	-0.19	0	0	0	0	0	0	0	0
2/21/2025 14:23	50501	MECH_T1	4	4	0	0.83	0.98	0.15	0	0	0	0	0	0	0	0
2/21/2025 14:23	66203	SISP_T2	0	0	0	0	0	0	-1.21	-1.28	2	2	0	1800	1800	0
2/21/2025 14:23	59002	MIFF_T1	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
2/21/2025 14:23	50502	MECH_T1	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
2/21/2025 14:24	65602	QVIL_T2	65	48	-17	0.36	0.42	0.06	0.32	0.27	0	0	0	0	0	0
2/21/2025 14:24	65603	QVIL_T2	353	480	127	0.26	0.38	0.12	0	0	0	0	0	0	0	0
2/21/2025 14:24	65604	QVIL_T2	6	7	1	0.58	0.66	0.08	0	0	0	0	0	0	0	0
2/21/2025 14:24	42302	MOWR_T2	0	0	0	0	0	0	0.75	0.68	0	0	0	0	0	0
2/21/2025 14:24	42301	MOWR_T2	0	0	0	0	0	0	-0.34	-0.3	0	0	0	0	0	0
2/21/2025 14:24	65601	QVIL_T2	200	269	69	0.32	0.44	0.12	0	0	0	0	0	0	0	0
2/21/2025 14:26	55105	WERT_T1	0	0	0	0	0	0	-0.52	-0.55	1	1	0	900	900	0
2/21/2025 14:26	67401	WAKE_T2	20	25	5	0.17	0.18	0.01	-1.02	-1.01	0	0	0	0	0	0
2/21/2025 14:26	67402	WAKE_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/21/2025 14:26	65803	RTWN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/21/2025 14:26	65802	RTWN_T2	0	0	0	0	0	0	-0.19	-0.19	0	0	0	0	0	0
2/21/2025 14:27	67401	WAKE_T2	20	25	5	0.17	0.18	0.01	-1.02	-1.01	0	0	0	0	0	0
2/21/2025 14:27	67402	WAKE_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/21/2025 14:30	46004	BERW_T2	1	2	1	0.5	0.4	-0.1	-0.69	-0.7	0	0	0	0	0	0
2/21/2025 14:31	41801	GOCI_T2	5	7	2	0.23	0.26	0.03	0	0	0	0	0	0	0	0
2/21/2025 14:32	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 14:33	41801	GOCI_T2	5	7	2	0.23	0.26	0.03	0	0	0	0	0	0	0	0
2/21/2025 14:35	41801	GOCI_T2	5	7	2	0.23	0.26	0.03	0	0	0	0	0	0	0	0
2/21/2025 14:37	52503	PROG_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/21/2025 14:37	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 14:38	44202	POIN_T2	0	0	0	0	0	0	-0.45	-0.41	1	1	0	1200	1200	0
2/21/2025 14:38	44203	POIN_T2	0	0	0	0	0	0	-0.68	-0.84	2	2	0	2100	2100	0
2/21/2025 14:38	13904	SEID_T1	38	47	9	1.32	1.26	-0.06	0	0	0	0	0	0	0	0
2/21/2025 14:38	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 14:44	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 14:45	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 14:46	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 14:52	21606	EYNO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 14:56	64101	REFR_T1	2	3	1	0.35	0.2	-0.15	-0.02	-0.01	0	0	0	0	0	0
2/21/2025 15:00	14801	TREI_T2	2	1	-1	0.4	1.1	0.7	0.53	0.56	0	0	0	0	0	0
2/21/2025 15:02	63303	GREE_T1	0	0	0	0	0	0	-0.63	-0.56	2	2	0	1800	1800	0
2/21/2025 15:02	63302	GREE_T1	0	0	0	0	0	0	0.53	0.5	0	0	0	0	0	0
2/21/2025 15:02	63305	GREE_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/21/2025 15:09	66504	SMAN_T2	1	1	0	0.7	0.3	-0.4	-0.4	-0.42	0	0	0	0	0	0
2/21/2025 15:09	66505	SMAN_T2	3	3	0	1	0.87	-0.13	0	0	0	0	0	0	0	0
2/21/2025 15:09	66502	SMAN_T2	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0	0
2/21/2025 15:12	66505	SMAN_T2	3	3	0	1	0.87	-0.13	0	0	0	0	0	0	0	0
2/21/2025 15:12	66504	SMAN_T2	1	1	0	0.7	0.3	-0.4	-0.8	-0.84	0	0	0	0	0	0
2/21/2025 15:12	66502	SMAN_T2	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0	0
2/21/2025 15:14	14204	EALL_T2	0	1	1	0	8.7	8.7	-0.03	-0.02	0	0	0	0	0	0
2/21/2025 15:14	66504	SMAN_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
2/21/2025 15:14	66502	SMAN_T2	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0	0
2/21/2025 15:14	66505	SMAN_T2	3	3	0	1	0.87	-0.13	0	0	0	0	0	0	0	0
2/21/2025 15:15	40501	CRES_T2	9	9	0	0.23	0.24	0.01	0	0	0	0	0	0	0	0
2/21/2025 15:16	40501	CRES_T2	9	9	0	0.23	0.24	0.01	0	0	0	0	0	0	0	0
2/21/2025 15:17	41801	GOCI_T2	3	2	-1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
2/21/2025 15:19	40501	CRES_T2	9	9	0	0.23	0.24	0.01	0	0	0	0	0	0	0	0
2/21/2025 15:28	64101	REFR_T1	1	1	0	0.1	0.1	0	0.01	0.02	0	0	0	0	0	0
2/21/2025 15:30	53501	EVIL_T2	1	2	1	0.5	0.7	0.2	-1.18	-1.15	1	1	0	600	600	0
2/21/2025 15:31	44301	BEAV_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/21/2025 15:31	53501	EVIL_T2	1	2	1	0.5	0.7	0.2	-1.18	-1.15	1	1	0	600	600	0
2/21/2025 15:32	52403	GRPA_T2	10	15	5	1.15	1.78	0.63	-0.38	-0.4	0	0	0	0	0	0
2/21/2025 15:32	52401	GRPA_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
2/21/2025 15:32	53501	EVIL_T2	1	2	1	0.5	0.7	0.2	-2.35	-2.29	2	2	0	1200	1200	0
2/21/2025 15:32	52402	GRPA_T2	32	29	-3	0.49	0.31	-0.18	0	0	0	0	0	0	0	0
2/21/2025 15:33	41301	FISH_T1	3	4	1	0.9	1.4	0.5	0	0	0	0	0	0	0	0
2/21/2025 15:34	53501	EVIL_T2	1	2	1	0.5	0.7	0.2	-1.18	-1.15	1	1	0	600	600	0
2/21/2025 15:35	67101	SPRI_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
2/21/2025 15:35	67106	SPRI_T2	0	0	0	0	0	0	-3.8	-3.82	2	2	0	1800	1800	0
2/21/2025 15:35	52401	GRPA_T2	1	1	0	0.5	0.2	-0.3	-0.5	-0.47	0	0	0	0	0	0
2/21/2025 15:35	52403	GRPA_T2	10	15	5	1.15	1.78	0.63	0	0	0	0	0	0	0	0
2/21/2025 15:35	41301	FISH_T1	3	4	1	0.9	1.4	0.5	-0.72	-0.26	0	0	0	0	0	0
2/21/2025 15:35	65503	MOJO_T2	0	0	0	0	0	0	-0.97	-0.01	1	0	-1	900	0	-900
2/21/2025 15:35	52402	GRPA_T2	32	29	-3	0.49	0.31	-0.18	0	0	0	0	0	0	0	0
2/21/2025 15:36	58701	ROSE_T2	0	0	0	0	0	0	-0.21	-0.2	1	1	0	600	600	0
2/21/2025 15:36	67106	SPRI_T2	0	0	0	0	0	0	-1.91	-1.89	1	1	0	900	900	0
2/21/2025 15:36	67101	SPRI_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
2/21/2025 15:48	20603	GRWO_T2	33	27	-6	0.35	0.27	-0.08	0	0	0	0	0	0	0	0
2/21/2025 15:48	20601	GRWO_T2	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
2/21/2025 15:49	15603	NSTR_T2	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
2/21/2025 15:50	65503	MOJO_T2	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
2/21/2025 15:57	44301	BEAV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/21/2025 15:59	67903	WNHO_T1	0	0	0	0	0	0	1.11	1.15	1	1	0	1200	1200	0
2/21/2025 16:12	67001	STHI_T2	2	1	-1	0.15	0.4	0.25	0	0	0	0	0	0	0	0
2/21/2025 16:12	67002	STHI_T2	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
2/21/2025 16:27	20401	ASHF_T2	7	8	1	0.87	0.49	-0.38	0	0	0	0	0	0	0	0
2/21/2025 16:27	42601	TUSC_T1	9	24	15	0.79	0.46	-0.33	-0.3	-0.29	2	2	0	1800	1800	0
2/21/2025 16:27	20403	ASHF_T2	0	0	0	0	0	0	0.28	0.32	0	0	0	0	0	0
2/21/2025 16:27	20402	ASHF_T2	3	8	5	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
2/21/2025 16:29	46001	BERW_T1	1	0	-1	8.7	0	-8.7	0.68	0.75	0	0	0	0	0	0
2/21/2025 16:36	45002	LIME_2	1	1	0	4.6	4.3	-0.3	0	0	0	0	0	0	0	0
2/21/2025 16:36	45003	LIME_2	4	59	55	1.35	0.54	-0.81	0.3	0.33	0	0	0	0	0	0
2/21/2025 16:36	45001	LIME_2	4	3	-1	0.88	1.6	0.72	0	0	0	0	0	0	0	0
2/21/2025 16:44	16101	BING_T2	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
2/21/2025 16:44	16102	BING_T2	1	2	1	4	4.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 16:51	45003	LIME_2	12	60	48	0.54	0.76	0.22	0.33	0.4	0	0	0	0	0	0
2/21/2025 16:51	45001	LIME_2	1	16	15	1.6	0.28	-1.32	0	0	0	0	0	0	0	0
2/21/2025 16:51	45002	LIME_2	1	1	0	4.3	3.8	-0.5	0	0	0	0	0	0	0	0
2/21/2025 17:04	17802	GILB_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
2/21/2025 17:05	40501	CRES_T2	3	5	2	0.17	0.18	0.01	0	0	0	0	0	0	0	0
2/21/2025 17:05	17802	GILB_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
2/21/2025 17:07	44201	POIN_T1	25	6	-19	0.14	0.1	-0.04	-2.1	-2.12	2	1	-1	2100	1200	-900
2/21/2025 17:10	44201	POIN_T1	25	6	-19	0.14	0.1	-0.04	-2.1	-2.12	2	1	-1	2100	1200	-900
2/21/2025 17:10	44203	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 17:11	44201	POIN_T1	25	6	-19	0.14	0.1	-0.04	-2.1	-2.12	2	1	-1	2100	1200	-900
2/21/2025 17:18	46802	HEPB_T1	1	2	1	1.6	0.75	-0.85	-1.18	-1.15	0	0	0	0	0	0
2/21/2025 17:23	52503	PROG_T2	0	0	0	0	0	0	-0.39	-0.33	1	1	0	900	900	0
2/21/2025 17:24	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 17:28	25801	SUTR_T2	2	9	7	9.7	6.53	-3.17	-0.55	-0.55	0	0	0	0	0	0
2/21/2025 18:22	66203	SISP_T2	0	1	1	0	0	0	-1.39	-1.38	2	2	0	1800	1800	0
2/21/2025 18:31	52503	PROG_T2	0	0	0	0	0	0	-0.41	-0.36	1	1	0	900	900	0
2/21/2025 18:44	65503	MOJO_T2	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
2/21/2025 19:04	60701	BREC_T1	0	0	0	0	0	0	-0.73	-0.75	2	2	0	1200	1200	0
2/21/2025 19:28	16201	POFA_T2	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
2/21/2025 19:28	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:35	53901	HALI_T2	1	1	0	0.4	0.6	0.2	-1.24	-1.2	0	0	0	0	0	0
2/21/2025 19:35	53902	HALI_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
2/21/2025 19:35	53903	HALI_T2	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/21/2025 19:38	53902	HALI_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
2/21/2025 19:38	53903	HALI_T2	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/21/2025 19:38	53901	HALI_T2	1	1	0	0.4	0.6	0.2	-1.2	-1.21	0	0	0	0	0	0
2/21/2025 19:39	53901	HALI_T2	1	1	0	0.4	0.6	0.2	-2.4	-2.42	0	0	0	0	0	0
2/21/2025 19:39	41901	REED_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
2/21/2025 19:39	53902	HALI_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
2/21/2025 19:39	41902	REED_T1	9	10	1	0.56	0.2	-0.36	0.32	0.39	1	1	0	900	900	0
2/21/2025 19:39	53903	HALI_T2	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/21/2025 19:40	42001	MNVL_T2	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
2/21/2025 19:40	42002	MNVL_T2	1	1	0	8.8	8.7	-0.1	0	0	0	0	0	0	0	0
2/21/2025 19:42	53901	HALI_T2	1	1	0	0.4	0.6	0.2	-1.2	-1.21	0	0	0	0	0	0
2/21/2025 19:42	53903	HALI_T2	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/21/2025 19:42	53902	HALI_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
2/21/2025 19:43	22002	BOHE_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/21/2025 19:43	22003	BOHE_T1	42	2	-40	0.28	0.35	0.07	0	0	0	0	0	0	0	0
2/21/2025 19:43	22001	BOHE_T1	2	0	-2	0.15	0	-0.15	0.39	0.39	0	0	0	0	0	0
2/21/2025 19:43	62604	ENGL_T1	0	0	0	0	0	0	-1.06	-1.11	1	1	0	600	600	0
2/21/2025 19:44	57505	LAWN_T3	0	0	0	0	0	0	0.84	0.83	0	0	0	0	0	0
2/21/2025 19:45	15601	NSTR_T2	8	10	2	0.33	0.33	0	0	0	0	0	0	0	0	0
2/21/2025 19:45	15603	NSTR_T2	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
2/21/2025 19:46	26604	BROO_T2	1	5	4	1.5	0.8	-0.7	0	0	0	0	0	0	0	0
2/21/2025 19:46	26602	BROO_T2	5	2	-3	0.92	0.2	-0.72	0	0	0	0	0	0	0	0
2/21/2025 19:46	61701	ELIZ_T1	1	1	0	5.1	5.5	0.4	0.25	0	0	0	0	0	0	0
2/21/2025 19:46	43402	BENT_T1	0	0	0	0	0	0	-0.92	-0.91	1	1	0	900	900	0
2/21/2025 19:46	46002	BERW_T2	0	3	3	0	0	0	-0.18	-0.16	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/21/2025 19:46	41901	REED_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/21/2025 19:46	46004	BERW_T2	10	8	-2	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
2/21/2025 19:46	41902	REED_T1	8	14	6	0.25	0.2	-0.05	0.32	0.39	1	1	0	900	900	0
2/21/2025 19:46	10602	BLGL_T2	1	1	0	8.3	6.8	-1.5	0.47	0.43	0	0	0	0	0	0
2/21/2025 19:47	67002	STHI_T2	9	50	41	0.13	0.17	0.04	0.65	0.65	0	0	0	0	0	0
2/21/2025 19:47	67001	STHI_T2	4	201	197	0.25	0.16	-0.09	0	0	0	0	0	0	0	0
2/21/2025 19:47	66903	SHIL_T2	0	0	0	0	0	0	-1.24	-1.24	0	0	0	0	0	0
2/21/2025 19:47	41301	FISH_T1	2	1	-1	1.05	2.1	1.05	-0.24	-0.26	0	0	0	0	0	0
2/21/2025 19:48	13902	SEID_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 19:48	14403	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:48	14401	SSLA_T1	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
2/21/2025 19:48	67402	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:48	44203	POIN_T2	0	0	0	0	0	0	-0.79	-0.81	2	2	0	2100	2100	0
2/21/2025 19:48	13905	SEID_T1	0	0	0	0	0	0	-0.9	-0.89	1	1	0	1200	1200	0
2/21/2025 19:48	11507	FREE_T2	98	84	-14	1	0.96	-0.04	1.98	2.05	0	0	0	0	0	0
2/21/2025 19:48	13904	SEID_T1	51	44	-7	1.39	1.51	0.12	0	0	0	0	0	0	0	0
2/21/2025 19:49	60803	BUCK_T1	3	5	2	0.13	0.2	0.07	0	0	0	0	0	0	0	0
2/21/2025 19:49	29401	BELT_T1	0	17	17	0	0.15	0.15	0	0	0	0	0	0	0	0
2/21/2025 19:49	66902	SHIL_T2	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
2/21/2025 19:49	22805	HAUT_T2	34	26	-8	0.95	0.61	-0.34	0	0	0	0	0	0	0	0
2/21/2025 19:49	29402	BELT_T1	1	1	0	9	9.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 19:49	22803	HAUT_T2	16	25	9	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
2/21/2025 19:49	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:49	60801	BUCK_T1	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
2/21/2025 19:50	60201	ATGL_T2	57	48	-9	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
2/21/2025 19:50	16302	ALPA_T2	0	0	0	0	0	0	-0.6	0.82	0	0	0	0	0	0
2/21/2025 19:50	25801	SUTR_T2	5	5	0	4.52	4.93	0.41	-0.5	-0.51	0	0	0	0	0	0
2/21/2025 19:50	42302	MOWR_T2	0	0	0	0	0	0	0.69	0.7	0	0	0	0	0	0
2/21/2025 19:50	42301	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:50	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:50	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:50	41304	FISH_T2	2	1	-1	3.2	0	-3.2	0	0	0	0	0	0	0	0
2/21/2025 19:50	40802	EXCH_T2	1	8	7	0.1	0.19	0.09	-0.84	-0.84	0	0	0	0	0	0
2/21/2025 19:50	40801	EXCH_T2	2	2	0	0.15	0.4	0.25	0	0	0	0	0	0	0	0
2/21/2025 19:50	10801	CHHI_T1	1	1	0	0.2	0.3	0.1	-2.04	-1.99	3	3	0	2100	2100	0
2/21/2025 19:50	67106	SPRI_T2	0	0	0	0	0	0	-1.23	-1.22	1	1	0	900	900	0
2/21/2025 19:51	40505	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:51	20401	ASHF_T2	4	4	0	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
2/21/2025 19:51	15702	TANN_T2	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
2/21/2025 19:51	64204	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 19:51	24703	FLND_T2	0	11	11	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 19:51	17802	GILB_T1	0	0	0	0	0	0	0.22	0.17	0	0	0	0	0	0
2/21/2025 19:51	15703	TANN_T2	1	1	0	7.8	7.8	0	0	0	0	0	0	0	0	0
2/21/2025 19:51	45001	LIME_2	3	13	10	0.37	1.08	0.71	0	0	0	0	0	0	0	0
2/21/2025 19:51	21601	EYNO_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/21/2025 19:51	57401	SPAN_T1	0	0	0	0	0	0	-1.16	-1.21	1	1	0	600	600	0
2/21/2025 19:51	64203	KINZ_T1	0	6	6	0	0.9	0.9	-0.17	-0.2	1	1	0	600	600	0
2/21/2025 19:51	20403	ASHF_T2	0	0	0	0	0	0	0.59	0.66	0	0	0	0	0	0
2/21/2025 19:51	52004	LING_T2	2	2	0	5.35	5.55	0.2	0.38	0.38	0	0	0	0	0	0
2/21/2025 19:51	45002	LIME_2	1	2	1	4.8	5.3	0.5	0	0	0	0	0	0	0	0
2/21/2025 19:51	21606	EYNO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:51	24701	FLND_T2	6	1	-5	0.43	0	-0.43	-0.71	-0.72	0	0	0	0	0	0
2/21/2025 19:51	45003	LIME_2	48	64	16	0.63	1.01	0.38	0	0	0	0	0	0	0	0
2/21/2025 19:51	24702	FLND_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:52	60201	ATGL_T2	57	48	-9	0.32	0.28	-0.04	-0.13	-0.06	0	0	0	0	0	0
2/21/2025 19:52	64101	REFR_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
2/21/2025 19:52	11904	ETEX_T2	0	0	0	0	0	0	-0.72	-0.68	0	0	0	0	0	0
2/21/2025 19:52	43201	MVIL_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
2/21/2025 19:52	20603	GRWO_T2	15	31	16	0.22	0.51	0.29	0.58	0.57	0	0	0	0	0	0
2/21/2025 19:52	41301	FISH_T1	2	1	-1	1.05	2.1	1.05	0	0	0	0	0	0	0	0
2/21/2025 19:52	66505	SMAN_T2	3	3	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/21/2025 19:52	54201	PENN_T1	5	7	2	0.34	0.53	0.19	0	0	0	0	0	0	0	0
2/21/2025 19:52	56501	ROCK_T2	2	2	0	0.95	0.8	-0.15	0	0	0	0	0	0	0	0
2/21/2025 19:52	54203	PENN_T1	18	18	0	0.57	0.83	0.26	-0.01	0	1	1	0	600	600	0
2/21/2025 19:52	56504	ROCK_T2	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
2/21/2025 19:52	29402	BELT_T1	1	1	0	9	9.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 19:52	42301	MOWR_T2	0	1	1	0	0	0	-0.33	-0.34	0	0	0	0	0	0
2/21/2025 19:52	16102	BING_T2	1	1	0	4.5	3.4	-1.1	0	0	0	0	0	0	0	0
2/21/2025 19:52	64801	MONE_T2	7	12	5	0.13	0.19	0.06	83.96	83.96	0	0	0	0	0	0
2/21/2025 19:52	11102	EGYP_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 19:52	25402	LAHA_T2	54	107	53	0.85	0.94	0.09	-0.37	-0.37	0	0	0	0	0	0
2/21/2025 19:52	11104	EGYP_T1	5	12	7	0.16	0.3	0.14	0.52	0.49	0	0	0	0	0	0
2/21/2025 19:52	66504	SMAN_T2	0	0	0	0	0	0	-0.48	-0.56	0	0	0	0	0	0
2/21/2025 19:52	29401	BELT_T1	0	17	17	0	0.15	0.15	0	0	1	1	0	900	900	0
2/21/2025 19:52	44201	POIN_T1	0	0	0	0	0	0	-3.95	-4.15	4	4	0	4200	4200	0
2/21/2025 19:52	16103	BING_T2	0	0	0	0	0	0	-2.1	-2.14	2	2	0	1500	1500	0
2/21/2025 19:52	64802	MONE_T2	10	10	0	0.16	0.21	0.05	0	0	0	0	0	0	0	0
2/21/2025 19:52	25404	LAHA_T2	2	2	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
2/21/2025 19:52	16101	BING_T2	0	5	5	0	0	0	0.65	0.66	0	0	0	0	0	0
2/21/2025 19:52	20601	GRWO_T2	3	1	-2	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/21/2025 19:53	65603	QVIL_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
2/21/2025 19:53	29401	BELT_T1	0	17	17	0	0.15	0.15	0	0	0	0	0	0	0	0
2/21/2025 19:53	60201	ATGL_T2	57	48	-9	0.32	0.28	-0.04	-0.13	-0.06	0	0	0	0	0	0
2/21/2025 19:53	40601	PIGR_T1	53	59	6	0.25	0.26	0.01	0	0	0	0	0	0	0	0
2/21/2025 19:53	40505	CRES_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
2/21/2025 19:53	65604	QVIL_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
2/21/2025 19:53	41304	FISH_T2	2	1	-1	3.2	0	-3.2	0.03	0.04	0	0	0	0	0	0
2/21/2025 19:53	67001	STHI_T2	4	201	197	0.25	0.16	-0.09	0	0	0	0	0	0	0	0
2/21/2025 19:53	57203	ROSS_T1	0	0	0	0	0	0	-0.06	-0.02	0	0	0	0	0	0
2/21/2025 19:53	65602	QVIL_T2	5	6	1	0.22	0.27	0.05	0	0	0	0	0	0	0	0
2/21/2025 19:53	24101	EHAZ_T1	44	71	27	1.54	1.27	-0.27	0	0	0	0	0	0	0	0
2/21/2025 19:53	66505	SMAN_T2	3	3	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/21/2025 19:53	45702	LIND_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
2/21/2025 19:53	24102	EHAZ_T1	9	25	16	0.36	0.63	0.27	-0.33	-0.43	0	0	0	0	0	0
2/21/2025 19:53	65601	QVIL_T2	1	5	4	0.3	0.18	-0.12	0.07	0.09	0	0	0	0	0	0
2/21/2025 19:53	40501	CRES_T2	4	9	5	0.18	0.26	0.08	0	0	0	0	0	0	0	0
2/21/2025 19:53	24105	EHAZ_T1	49	63	14	2.02	1.4	-0.62	0	0	0	0	0	0	0	0
2/21/2025 19:53	66901	SHIL_T2	0	0	0	0	0	0	-1.34	-1.36	1	1	0	1200	1200	0
2/21/2025 19:53	66504	SMAN_T2	0	0	0	0	0	0	-0.24	-0.28	0	0	0	0	0	0
2/21/2025 19:53	67002	STHI_T2	9	50	41	0.13	0.17	0.04	0.65	0.64	0	0	0	0	0	0
2/21/2025 19:53	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:53	45701	LIND_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
2/21/2025 19:53	24103	EHAZ_T1	5	16	11	1.18	1.32	0.14	0	0	0	0	0	0	0	0
2/21/2025 19:53	29402	BELT_T1	1	1	0	9	9.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 19:53	42301	MOWR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:54	67001	STHI_T2	4	201	197	0.25	0.16	-0.09	0	0	0	0	0	0	0	0
2/21/2025 19:54	61303	EARL_T1	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
2/21/2025 19:54	16102	BING_T2	1	1	0	4.5	3.4	-1.1	0.07	0.02	0	0	0	0	0	0
2/21/2025 19:54	53903	HALI_T2	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
2/21/2025 19:54	45003	LIME_2	48	64	16	0.63	1.01	0.38	0.46	0.48	0	0	0	0	0	0
2/21/2025 19:54	53902	HALI_T2	1	1	0	5.2	5.7	0.5	-0.83	-0.86	0	0	0	0	0	0
2/21/2025 19:54	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:54	14802	TREI_T2	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
2/21/2025 19:54	65601	QVIL_T2	1	5	4	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
2/21/2025 19:54	57401	SPAN_T1	0	0	0	0	0	0	-1.21	-1.12	1	1	0	600	600	0
2/21/2025 19:54	45501	DERR_T2	0	2	2	0	0	0	0.17	0.1	2	2	0	1800	1800	0
2/21/2025 19:54	11901	ETEX_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
2/21/2025 19:54	40501	CRES_T2	4	9	5	0.18	0.26	0.08	0	0	0	0	0	0	0	0
2/21/2025 19:54	65604	QVIL_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
2/21/2025 19:54	65603	QVIL_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
2/21/2025 19:54	45002	LIME_2	1	2	1	4.8	5.3	0.5	0	0	0	0	0	0	0	0
2/21/2025 19:54	45001	LIME_2	3	13	10	0.37	1.08	0.71	0	0	0	0	0	0	0	0
2/21/2025 19:54	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:54	53901	HALI_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
2/21/2025 19:54	65602	QVIL_T2	5	6	1	0.22	0.27	0.05	0	0	0	0	0	0	0	0
2/21/2025 19:54	16101	BING_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:54	16103	BING_T2	0	0	0	0	0	0	-2.1	-2.14	2	2	0	1500	1500	0
2/21/2025 19:54	40505	CRES_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
2/21/2025 19:54	67106	SPRI_T2	0	0	0	0	0	0	-1.22	-1.2	1	1	0	900	900	0
2/21/2025 19:54	15703	TANN_T2	1	1	0	7.8	7.8	0	0	0	0	0	0	0	0	0
2/21/2025 19:54	45502	DERR_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/21/2025 19:54	23401	HONE_T2	1	2	1	0.1	0	-0.1	-0.25	-0.27	0	0	0	0	0	0
2/21/2025 19:54	41301	FISH_T1	2	1	-1	1.05	2.1	1.05	-0.26	-0.28	0	0	0	0	0	0
2/21/2025 19:54	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:54	10805	CHHI_T2	7	1	-6	2.96	8.2	5.24	-0.9	-0.94	1	1	0	600	600	0
2/21/2025 19:54	62105	ELAN_T1	0	1	1	0	0.1	0.1	0.54	0.54	0	0	0	0	0	0
2/21/2025 19:54	61304	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:54	23402	HONE_T2	3	0	-3	0.53	0	-0.53	0	0	0	0	0	0	0	0
2/21/2025 19:54	41304	FISH_T2	2	1	-1	3.2	0	-3.2	0.03	0.04	0	0	0	0	0	0
2/21/2025 19:54	44601	SALE_T2	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
2/21/2025 19:54	14801	TREI_T2	1	1	0	0.4	0.2	-0.2	0.78	0.74	0	0	0	0	0	0
2/21/2025 19:54	67002	STHI_T2	9	50	41	0.13	0.17	0.04	0.65	0.64	0	0	0	0	0	0
2/21/2025 19:54	15702	TANN_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
2/21/2025 19:55	67002	STHI_T2	9	50	41	0.13	0.17	0.04	0.65	0.64	0	0	0	0	0	0
2/21/2025 19:55	59003	MIFF_T1	1	0	-1	0.1	0	-0.1	0.69	0.44	0	0	0	0	0	0
2/21/2025 19:55	42301	MOWR_T2	0	1	1	0	0	0	-0.33	-0.34	0	0	0	0	0	0
2/21/2025 19:55	63601	LETO_T1	6	6	0	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
2/21/2025 19:55	64802	MONE_T2	10	10	0	0.16	0.21	0.05	0	0	0	0	0	0	0	0
2/21/2025 19:55	41202	KENM_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
2/21/2025 19:55	57203	ROSS_T1	0	0	0	0	0	0	-0.06	-0.02	0	0	0	0	0	0
2/21/2025 19:55	60801	BUCK_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
2/21/2025 19:55	65601	QVIL_T2	1	5	4	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
2/21/2025 19:55	67903	WNHO_T1	0	0	0	0	0	0	1.11	1.17	1	1	0	1200	1200	0
2/21/2025 19:55	60803	BUCK_T1	3	5	2	0.13	0.2	0.07	-0.44	-0.47	1	1	0	600	600	0
2/21/2025 19:55	40504	CRES_T1	0	0	0	0	0	0	-1.71	-1.75	0	0	0	0	0	0
2/21/2025 19:55	63602	LETO_T1	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
2/21/2025 19:55	61301	EARL_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
2/21/2025 19:55	57401	SPAN_T1	0	0	0	0	0	0	-1.21	-1.12	1	1	0	600	600	0
2/21/2025 19:55	44801	EDAN_T2	1	1	0	0.2	0.5	0.3	-0.37	-0.35	0	0	0	0	0	0
2/21/2025 19:55	52503	PROG_T2	0	0	0	0	0	0	-0.47	-0.47	1	1	0	900	900	0
2/21/2025 19:55	53501	EVIL_T2	1	1	0	0.1	0.2	0.1	-0.58	-0.55	0	0	0	0	0	0
2/21/2025 19:55	64801	MONE_T2	7	12	5	0.13	0.19	0.06	83.96	83.96	0	0	0	0	0	0
2/21/2025 19:55	65602	QVIL_T2	5	6	1	0.22	0.27	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/21/2025 19:55	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:55	45002	LIME_2	1	2	1	4.8	5.3	0.5	0.75	0.75	0	0	0	0	0	0
2/21/2025 19:55	47101	MARL_T1	48	39	-9	0.88	0.71	-0.17	0	0	0	0	0	0	0	0
2/21/2025 19:55	61304	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:55	65604	QVIL_T2	2	2	0	0.2	0.15	-0.05	0.53	0.54	0	0	0	0	0	0
2/21/2025 19:55	59001	MIFF_T1	14	7	-7	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
2/21/2025 19:55	45003	LIME_2	48	64	16	0.63	1.01	0.38	0	0	0	0	0	0	0	0
2/21/2025 19:55	67001	STHI_T2	4	201	197	0.25	0.16	-0.09	0	0	0	0	0	0	0	0
2/21/2025 19:55	45001	LIME_2	3	13	10	0.37	1.08	0.71	0	0	0	0	0	0	0	0
2/21/2025 19:55	59002	MIFF_T1	5	2	-3	0.26	0.15	-0.11	0	0	0	0	0	0	0	0
2/21/2025 19:55	54601	SUMM_T2	0	0	0	0	0	-3.25	-3.18	4	4	0	0	4200	4200	0
2/21/2025 19:55	47104	MARL_T1	0	1	1	0	0	0	-0.81	-0.81	0	0	0	0	0	0
2/21/2025 19:56	52401	GRPA_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 19:56	40601	PIGR_T1	53	59	6	0.25	0.26	0.01	-0.09	-0.09	0	0	0	0	0	0
2/21/2025 19:56	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:56	56501	ROCK_T2	2	2	0	0.95	0.8	-0.15	-0.8	-0.9	0	0	0	0	0	0
2/21/2025 19:56	46004	BERW_T2	10	8	-2	0.37	0.25	-0.12	-0.65	-0.65	0	0	0	0	0	0
2/21/2025 19:56	14403	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:56	63601	LETO_T1	6	6	0	0.53	0.5	-0.03	0.82	0.73	0	0	0	0	0	0
2/21/2025 19:56	41301	FISH_T1	2	1	-1	1.05	2.1	1.05	0	0	0	0	0	0	0	0
2/21/2025 19:56	53901	HALI_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
2/21/2025 19:56	59101	WALK_T2	0	0	0	0	0	0	-0.52	-0.36	0	0	0	0	0	0
2/21/2025 19:56	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:56	65503	MOJO_T2	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
2/21/2025 19:56	15103	UPHA_T2	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
2/21/2025 19:56	11102	EGYP_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 19:56	54201	PENN_T1	5	7	2	0.34	0.53	0.19	0	0	0	0	0	0	0	0
2/21/2025 19:56	67002	STHI_T2	9	50	41	0.13	0.17	0.04	0	0	0	0	0	0	0	0
2/21/2025 19:56	52403	GRPA_T2	75	140	65	0.69	0.82	0.13	-0.17	-0.3	0	0	0	0	0	0
2/21/2025 19:56	53902	HALI_T2	1	1	0	5.2	5.7	0.5	-0.83	-0.86	0	0	0	0	0	0
2/21/2025 19:56	67001	STHI_T2	4	201	197	0.25	0.16	-0.09	0	0	0	0	0	0	0	0
2/21/2025 19:56	12602	MACA_T1	30	57	27	0.25	0.29	0.04	-2	-1.99	0	0	0	0	0	0
2/21/2025 19:56	11104	EGYP_T1	5	12	7	0.16	0.3	0.14	0.52	0.49	0	0	0	0	0	0
2/21/2025 19:56	54203	PENN_T1	18	18	0	0.57	0.83	0.26	-0.01	0	1	1	0	600	600	0
2/21/2025 19:56	59102	WALK_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/21/2025 19:56	57402	SPAN_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
2/21/2025 19:56	40505	CRES_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
2/21/2025 19:56	52402	GRPA_T2	40	73	33	0.76	0.64	-0.12	0	0	0	0	0	0	0	0
2/21/2025 19:56	53903	HALI_T2	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
2/21/2025 19:56	46002	BERW_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:57	57201	ROSS_T1	0	0	0	0	0	0	-0.55	-0.72	0	0	0	0	0	0
2/21/2025 19:57	59301	MCAL_T1	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/21/2025 19:57	45002	LIME_2	1	2	1	4.8	5.3	0.5	0.75	0.75	0	0	0	0	0	0
2/21/2025 19:57	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:57	25503	MADI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:57	53901	HALI_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
2/21/2025 19:57	66903	SHIL_T2	0	0	0	0	0	0	-1.24	-1.25	0	0	0	0	0	0
2/21/2025 19:57	46004	BERW_T2	10	8	-2	0.37	0.25	-0.12	-0.65	-0.65	0	0	0	0	0	0
2/21/2025 19:57	46206	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/21/2025 19:57	67002	STHI_T2	9	50	41	0.13	0.17	0.04	0.65	0.64	0	0	0	0	0	0
2/21/2025 19:57	25501	MADI_T1	4	12	8	0.25	0.35	0.1	0	0	0	0	0	0	0	0
2/21/2025 19:57	60201	ATGL_T2	57	48	-9	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
2/21/2025 19:57	51204	MTON_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
2/21/2025 19:57	41602	CLEV_T1	6	15	9	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
2/21/2025 19:57	66505	SMAN_T2	3	3	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/21/2025 19:57	46002	BERW_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:57	57402	SPAN_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
2/21/2025 19:57	67001	STHI_T2	4	201	197	0.25	0.16	-0.09	0	0	0	0	0	0	0	0
2/21/2025 19:57	53902	HALI_T2	1	1	0	5.2	5.7	0.5	0	0	0	0	0	0	0	0
2/21/2025 19:57	17802	GILB_T1	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
2/21/2025 19:57	54203	PENN_T1	18	18	0	0.57	0.83	0.26	0	0	0	0	0	0	0	0
2/21/2025 19:57	40505	CRES_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
2/21/2025 19:57	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:57	45003	LIME_2	48	64	16	0.63	1.01	0.38	0.46	0.48	0	0	0	0	0	0
2/21/2025 19:57	55002	NEWP_T1	4	3	-1	0.73	1.03	0.3	-0.17	-0.15	0	0	0	0	0	0
2/21/2025 19:57	53903	HALI_T2	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
2/21/2025 19:57	46203	DANV_T2	225	239	14	0.73	0.68	-0.05	-1.59	-1.55	0	0	0	0	0	0
2/21/2025 19:57	67402	WAKE_T2	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
2/21/2025 19:57	63601	LETO_T1	6	6	0	0.53	0.5	-0.03	0.82	0.73	0	0	0	0	0	0
2/21/2025 19:57	16801	WAGN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:57	59302	MCAL_T1	0	0	0	0	0	0	-0.68	-0.68	1	1	0	600	600	0
2/21/2025 19:57	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	-0.66	-0.66	1	1	0	600	600	0
2/21/2025 19:57	57404	SPAN_T2	0	0	0	0	0	0	-0.05	-0.07	1	1	0	1200	1200	0
2/21/2025 19:57	45001	LIME_2	3	13	10	0.37	1.08	0.71	0	0	0	0	0	0	0	0
2/21/2025 19:57	67401	WAKE_T2	0	0	0	0	0	0	-1.13	-1.09	0	0	0	0	0	0
2/21/2025 19:57	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	900	900	0
2/21/2025 19:57	64101	REFR_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
2/21/2025 19:57	54201	PENN_T1	5	7	2	0.34	0.53	0.19	0.8	0.78	0	0	0	0	0	0
2/21/2025 19:57	57401	SPAN_T1	0	0	0	0	0	0	-1.21	-1.12	1	1	0	600	600	0
2/21/2025 19:58	23401	HONE_T2	1	2	1	0.1	0	-0.1	-0.25	-0.27	0	0	0	0	0	0
2/21/2025 19:58	65601	QVIL_T2	1	5	4	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
2/21/2025 19:58	52004	LING_T2	2	2	0	5.35	5.55	0.2	0.38	0.36	0	0	0	0	0	0
2/21/2025 19:58	45502	DERR_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/21/2025 19:58	51201	MTON_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:58	62606	ENGL_T1	0	0	0	0	0	0	-1.49	-1.5	1	1	0	900	900	0
2/21/2025 19:58	45501	DERR_T2	0	2	2	0	0	0	0.17	0.1	2	2	0	1800	1800	0
2/21/2025 19:58	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:58	55002	NEWP_T1	4	3	-1	0.73	1.03	0.3	-0.34	-0.3	0	0	0	0	0	0
2/21/2025 19:58	52401	GRPA_T2	0	5	5	0	0.2	0.2	-0.63	-0.67	0	0	0	0	0	0
2/21/2025 19:58	62105	ELAN_T1	0	1	1	0	0.1	0.1	0.54	0.54	0	0	0	0	0	0
2/21/2025 19:58	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:58	64902	MILL_T2	0	0	0	0	0	0	-0.25	-0.21	0	0	0	0	0	0
2/21/2025 19:58	60201	ATGL_T2	57	48	-9	0.32	0.28	-0.04	-0.26	-0.11	0	0	0	0	0	0
2/21/2025 19:58	60801	BUCK_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
2/21/2025 19:58	11202	ELHE_T2	0	0	0	0	0	0	0.46	0.46	1	1	0	1200	1200	0
2/21/2025 19:58	60803	BUCK_T1	3	5	2	0.13	0.2	0.07	0	0	0	0	0	0	0	0
2/21/2025 19:58	65604	QVIL_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
2/21/2025 19:58	45003	LIME_2	48	64	16	0.63	1.01	0.38	0.46	0.48	0	0	0	0	0	0
2/21/2025 19:58	53501	EVIL_T2	1	1	0	0.1	0.2	0.1	-0.58	-0.55	0	0	0	0	0	0
2/21/2025 19:58	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:58	65503	MOJO_T2	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
2/21/2025 19:58	10801	OHHI_T1	1	1	0	0.2	0.3	0.1	-3.98	3.96	6	6	0	4200	4200	0
2/21/2025 19:58	52502	PROG_T2	0	0	0	0	0	0	0.7	0.65	0	0	0	0	0	0
2/21/2025 19:58	16101	BING_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:58	23402	HONE_T2	3	0	-3	0.53	0	-0.53	0	0	0	0	0	0	0	0
2/21/2025 19:58	40201	BEGA_T2	2	8	6	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
2/21/2025 19:58	52402	GRPA_T2	40	73	33	0.76	0.64	-0.12	0	0	0	0	0	0	0	0
2/21/2025 19:58	46802	HEPB_T1	7	13	6	0.3	0.29	-0.01	-1.12	-1.15	0	0	0	0	0	0
2/21/2025 19:58	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	-0.66	-0.66	1	1	0	600	600	0
2/21/2025 19:58	40801	EXCH_T2	2	2	0	0.15	0.4	0.25	0	0	0	0	0	0	0	0
2/21/2025 19:58	40101	HUNT_T2	31	59	28	0.67	0.6	-0.07	-1.37	-1.31	0	0	0	0	0	0
2/21/2025 19:58	14802	TREI_T2	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
2/21/2025 19:58	65702	RVIL_T2	0	0	0	0	0	0	-1.47	-1.49	1	1	0	600	600	0
2/21/2025 19:58	40601	PIGR_T1	53	59	6	0.25	0.26	0.01	0	0	0	0	0	0	0	0
2/21/2025 19:58	53901	HALI_T2	1	1	0	0.3	0.6	0.3	-1.21	-1.21	0	0	0	0	0	0
2/21/2025 19:58	57401	SPAN_T1	0	0	0	0	0	0	-2.41	-2.24	2	2	0	1200	1200	0
2/21/2025 19:58	16102	BING_T2	1	1	0	4.5	3.4	-1.1	0	0	0	0	0	0	0	0
2/21/2025 19:58	64101	REFR_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
2/21/2025 19:58	53903	HALI_T2	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
2/21/2025 19:58	45002	LIME_2	1	2	1	4.8	5.3	0.5	0	0	0	0	0	0	0	0
2/21/2025 19:58	54206	PENN_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
2/21/2025 19:58	45001	LIME_2	3	13	10	0.37	1.08	0.71	0	0	0	0	0	0	0	0
2/21/2025 19:58	40501	CRES_T2	4	9	5	0.18	0.26	0.08	0	0	0	0	0	0	0	0
2/21/2025 19:58	52403	GRPA_T2	75	140	65	0.69	0.82	0.13	0	0	0	0	0	0	0	0
2/21/2025 19:58	52404	GRPA_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
2/21/2025 19:58	53902	HALI_T2	1	1	0	5.2	5.7	0.5	0	0	0	0	0	0	0	0
2/21/2025 19:58	14801	TREI_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/21/2025 19:58	40802	EXCH_T2	1	8	7	0.1	0.19	0.09	-0.84	-0.84	0	0	0	0	0	0
2/21/2025 19:58	65602	QVIL_T2	5	6	1	0.22	0.27	0.05	0.18	0.2	0	0	0	0	0	0
2/21/2025 19:59	45702	LIND_T2	1	1	0	0.9	0.9	0	-0.47	-0.5	0	0	0	0	0	0
2/21/2025 19:59	45001	LIME_2	3	13	10	0.37	1.08	0.71	0	0	0	0	0	0	0	0
2/21/2025 19:59	52404	GRPA_T2	0	0	0	0	0	0	-0.14	-0.13	0	0	0	0	0	0
2/21/2025 19:59	54601	SUMM_T2	0	0	0	0	0	0	-3.25	-3.18	4	4	0	4200	4200	0
2/21/2025 19:59	61001	DONV_T1	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
2/21/2025 19:59	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	-0.66	-0.66	1	1	0	600	600	0
2/21/2025 19:59	46206	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/21/2025 19:59	52402	GRPA_T2	40	73	33	0.76	0.64	-0.12	0	0	0	0	0	0	0	0
2/21/2025 19:59	46203	DANV_T2	225	239	14	0.73	0.68	-0.05	-3.18	-3.1	0	0	0	0	0	0
2/21/2025 19:59	50506	MECH_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
2/21/2025 19:59	42601	TUSC_T1	38	32	-6	1.19	0.89	-0.3	-0.26	-0.28	2	2	0	1800	1800	0
2/21/2025 19:59	46004	BERW_T2	10	8	-2	0.37	0.25	-0.12	-0.65	-0.65	0	0	0	0	0	0
2/21/2025 19:59	45802	HEGI_T2	28	46	18	0.48	0.64	0.16	0.86	0.98	0	0	0	0	0	0
2/21/2025 19:59	57203	ROSS_T1	0	0	0	0	0	0	-0.06	-0.02	0	0	0	0	0	0
2/21/2025 19:59	60201	ATGL_T2	57	48	-9	0.32	0.28	-0.04	-0.13	-0.06	0	0	0	0	0	0
2/21/2025 19:59	50502	MECH_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
2/21/2025 19:59	61801	EELI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:59	50501	MECH_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 19:59	54203	PENN_T1	18	18	0	0.57	0.83	0.26	0	0	0	0	0	0	0	0
2/21/2025 19:59	24204	PROV_T3	1	2	1	5.9	2.95	-2.95	0	0	0	0	0	0	0	0
2/21/2025 19:59	53903	HALI_T2	2	2	0	1	1.15	0.15	0	0	0	0	0	0	0	0
2/21/2025 19:59	45003	LIME_2	48	64	16	0.63	1.01	0.38	0.92	0.96	0	0	0	0	0	0
2/21/2025 19:59	44201	POIN_T1	0	0	0	0	0	0	-1.97	-2.08	2	2	0	2100	2100	0
2/21/2025 19:59	41602	CLEV_T1	6	15	9	0.43	0.37	-0.06	0	0	0	0	0	0	0	0
2/21/2025 19:59	20601	GRWO_T2	3	1	-2	0.5	0.6	0.1	0.04	0.04	0	0	0	0	0	0
2/21/2025 19:59	52403	GRPA_T2	75	140	65	0.69	0.82	0.13	0	0	0	0	0	0	0	0
2/21/2025 19:59	53901	HALI_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
2/21/2025 19:59	60801	BUCK_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
2/21/2025 19:59	54201	PENN_T1	5	7	2	0.34	0.53	0.19	0.8	0.78	0	0	0	0	0	0
2/21/2025 19:59	53902	HALI_T2	1	1	0	5.2	5.7	0.5	-0.83	-0.86	0	0	0	0	0	0
2/21/2025 19:59	45002	LIME_2	1	2	1	4.8	5.3	0.5	0	0	0	0	0	0	0	0
2/21/2025 19:59	41304	FISH_T2	2	1	-1	3.2	0	-3.2	0.03	0.04	0	0	0	0	0	0
2/21/2025 19:59	52401	GRPA_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 19:59	64902	MILL_T2	0	0	0	0	0	0	-0.25	-0.21	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/21/2025 19:59	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:59	24205	PROV_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:59	20603	GRWO_T2	15	31	16	0.22	0.51	0.29	0	0	0	0	0	0	0	0
2/21/2025 19:59	24201	PROV_T3	3	3	0	5.8	5.77	-0.03	-1.31	-1.32	1	1	0	1200	1200	0
2/21/2025 19:59	65703	RVIL_T1	0	0	0	0	0	0	-1.18	-1.25	1	1	0	900	900	0
2/21/2025 19:59	46002	BERW_T2	0	3	3	0	0	0	-0.16	-0.21	0	0	0	0	0	0
2/21/2025 19:59	58102	NEKI_T1	1	1	0	0.2	0.5	0.3	0.3	0.26	0	0	0	0	0	0
2/21/2025 19:59	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 19:59	57205	ROSS_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
2/21/2025 19:59	67402	WAKE_T2	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
2/21/2025 19:59	60803	BUCK_T1	3	5	2	0.13	0.2	0.07	-0.88	-0.94	2	2	0	1200	1200	0
2/21/2025 20:00	41301	FISH_T1	1	2	1	2.1	1.15	-0.95	-0.26	-0.28	0	0	0	0	0	0
2/21/2025 20:00	59003	MIFF_T1	0	0	0	0	0	0	0.69	0.44	0	0	0	0	0	0
2/21/2025 20:00	10805	CHHI_T2	1	1	0	8.2	8.3	0.1	-0.9	-0.94	1	1	0	600	600	0
2/21/2025 20:00	64801	MONE_T2	2	22	20	0.1	0.17	0.07	0	0	0	0	0	0	0	0
2/21/2025 20:00	45003	LIME_2	62	64	2	1.06	1.03	-0.03	0.46	0.48	0	0	0	0	0	0
2/21/2025 20:00	41304	FISH_T2	1	1	0	0	0	0	0.03	0.04	0	0	0	0	0	0
2/21/2025 20:00	41602	CLEV_T1	13	12	-1	0.32	0.2	-0.12	0	0	0	0	0	0	0	0
2/21/2025 20:00	15702	TANN_T2	0	2	2	0	0	0	-0.16	-0.16	0	0	0	0	0	0
2/21/2025 20:00	62606	ENGL_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:00	15703	TANN_T2	1	2	1	7.8	7.8	0	0	0	0	0	0	0	0	0
2/21/2025 20:00	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:00	40601	PIGR_T1	51	79	28	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
2/21/2025 20:00	46803	HEPB_T2	3	4	1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
2/21/2025 20:00	46101	MACI_T2	0	0	0	0	0	0	0.74	0.74	0	0	0	0	0	0
2/21/2025 20:00	57403	SPAN_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
2/21/2025 20:00	45001	LIME_2	12	9	-3	0.57	0.95	0.38	0	0	0	0	0	0	0	0
2/21/2025 20:00	43202	MVIL_T2	0	0	0	0	0	0	-0.56	-0.64	0	0	0	0	0	0
2/21/2025 20:00	52402	GRPA_T2	70	49	-21	0.75	0.46	-0.29	0	0	0	0	0	0	0	0
2/21/2025 20:00	65602	QVIL_T2	2	6	4	0.2	0.27	0.07	0.18	0.2	0	0	0	0	0	0
2/21/2025 20:00	60803	BUCK_T1	2	5	3	0.15	0.2	0.05	-0.44	-0.47	1	1	0	600	600	0
2/21/2025 20:00	53501	EVIL_T2	1	0	-1	0.2	0	-0.2	-0.58	-0.55	0	0	0	0	0	0
2/21/2025 20:00	67402	WAKE_T2	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
2/21/2025 20:00	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:00	46203	DANV_T2	238	221	-17	0.68	0.61	-0.07	-3.18	-3.1	0	0	0	0	0	0
2/21/2025 20:00	65604	QVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 20:00	52401	GRPA_T2	4	2	-2	0.3	0	-0.3	-0.63	-0.67	0	0	0	0	0	0
2/21/2025 20:00	66903	SHIL_T2	0	0	0	0	0	0	-1.24	-1.25	0	0	0	0	0	0
2/21/2025 20:00	62605	ENGL_T1	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
2/21/2025 20:00	40505	CRES_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
2/21/2025 20:00	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:00	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:00	45002	LIME_2	1	2	1	4.4	5.4	1	0	0	0	0	0	0	0	0
2/21/2025 20:00	15104	UPHA_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
2/21/2025 20:00	14204	EALL_T2	0	0	0	0	0	0	0.56	0.59	0	0	0	0	0	0
2/21/2025 20:00	60801	BUCK_T1	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
2/21/2025 20:00	67203	TEHI_T1	0	0	0	0	0	0	1.83	1.69	2	2	0	1500	1500	0
2/21/2025 20:00	54601	SUMM_T2	0	0	0	0	0	0	-1.62	-1.59	2	2	0	2100	2100	0
2/21/2025 20:00	59002	MIFF_T1	0	5	5	0	0.24	0.24	0	0	0	0	0	0	0	0
2/21/2025 20:00	46801	HEPB_T2	14	16	2	0.17	0.2	0.03	0.67	0.69	0	0	0	0	0	0
2/21/2025 20:00	65601	QVIL_T2	1	6	5	0.1	0.17	0.07	0	0	0	0	0	0	0	0
2/21/2025 20:00	59001	MIFF_T1	3	14	11	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/21/2025 20:00	52403	GRPA_T2	140	111	-29	1.02	0.69	-0.33	0	0	0	0	0	0	0	0
2/21/2025 20:00	64802	MONE_T2	4	13	9	0.15	0.21	0.06	-0.01	-0.01	0	0	0	0	0	0
2/21/2025 20:00	46205	DANV_T2	0	0	0	0	0	0	-0.81	-0.8	1	1	0	1200	1200	0
2/21/2025 20:01	46801	HEPB_T2	14	16	2	0.17	0.2	0.03	0	0	0	0	0	0	0	0
2/21/2025 20:01	20603	GRWO_T2	23	38	15	1.37	0.6	-0.77	0.58	0.57	0	0	0	0	0	0
2/21/2025 20:01	40802	EXCH_T2	8	3	-5	0.19	0.13	-0.06	-0.84	-0.84	0	0	0	0	0	0
2/21/2025 20:01	57401	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:01	60803	BUCK_T1	2	5	3	0.15	0.2	0.05	0	0	0	0	0	0	0	0
2/21/2025 20:01	42201	SHEN_T2	0	1	1	0	0	0	0.14	0.13	1	1	0	600	600	0
2/21/2025 20:01	53903	HALI_T2	2	2	0	1	1.25	0.25	0	0	0	0	0	0	0	0
2/21/2025 20:01	66903	SHIL_T2	0	0	0	0	0	0	-1.24	-1.25	0	0	0	0	0	0
2/21/2025 20:01	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:01	64101	REFR_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
2/21/2025 20:01	52401	GRPA_T2	4	2	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/21/2025 20:01	47104	MARL_T1	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
2/21/2025 20:01	57402	SPAN_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
2/21/2025 20:01	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:01	46002	BERW_T2	0	4	4	0	0.13	0.13	0	0	0	0	0	0	0	0
2/21/2025 20:01	40601	PIGR_T1	51	79	28	0.27	0.24	-0.03	-0.09	-0.09	0	0	0	0	0	0
2/21/2025 20:01	46803	HEPB_T2	3	4	1	0.23	0.2	-0.03	0.56	0.58	0	0	0	0	0	0
2/21/2025 20:01	53902	HALI_T2	1	1	0	5.3	5.7	0.4	-0.83	-0.86	0	0	0	0	0	0
2/21/2025 20:01	53901	HALI_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/21/2025 20:01	45802	HEGI_T2	37	12	-25	0.64	0.28	-0.36	0	0	0	0	0	0	0	0
2/21/2025 20:01	40801	EXCH_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
2/21/2025 20:01	43402	BENT_T1	0	0	0	0	0	0	-0.91	-0.9	1	1	0	900	900	0
2/21/2025 20:01	67002	STHI_T2	45	69	24	0.17	0.18	0.01	0.65	0.64	0	0	0	0	0	0
2/21/2025 20:01	61303	EARL_T1	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
2/21/2025 20:01	52403	GRPA_T2	140	111	-29	1.02	0.69	-0.33	-0.17	-0.3	0	0	0	0	0	0
2/21/2025 20:01	67001	STHI_T2	190	258	68	0.16	0.18	0.02	0	0	0	0	0	0	0	0
2/21/2025 20:01	46004	BERW_T2	7	10	3	0.24	0.25	0.01	-0.65	-0.65	0	0	0	0	0	0
2/21/2025 20:01	20601	GRWO_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/21/2025 20:01	52402	GRPA_T2	70	49	-21	0.75	0.46	-0.29	0	0	0	0	0	0	0	0
2/21/2025 20:01	47101	MARL_T1	39	31	-8	0.73	0.73	0	0	0	0	0	0	0	0	0
2/21/2025 20:01	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:01	40201	BEGA_T2	4	6	2	0.2	0.2	0	0	0	0	0	0	0	0	0
2/21/2025 20:01	41602	CLEV_T1	13	12	-1	0.32	0.2	-0.12	0	0	0	0	0	0	0	0
2/21/2025 20:01	46203	DANV_T2	238	221	-17	0.68	0.61	-0.07	-1.59	-1.55	0	0	0	0	0	0
2/21/2025 20:01	46001	BERW_T1	0	0	0	0	0	0	0.79	0.81	0	0	0	0	0	0
2/21/2025 20:01	61803	LELI_T2	0	0	0	0	0	0	0.75	0.72	0	0	0	0	0	0
2/21/2025 20:02	40602	PIGR_T1	0	1	1	0	0	0	0.29	0.25	0	0	0	0	0	0
2/21/2025 20:02	46206	DANV_T2	0	0	0	0	0	0	1.15	1.15	2	2	0	2100	2100	0
2/21/2025 20:02	54601	SUMM_T2	0	0	0	0	0	0	-1.62	-1.59	2	2	0	2100	2100	0
2/21/2025 20:02	53501	EVIL_T2	1	0	-1	0.2	0	-0.2	-0.58	-0.55	0	0	0	0	0	0
2/21/2025 20:02	14403	SLLA_T1	0	2	2	0	0.4	0.4	0.97	0.95	0	0	0	0	0	0
2/21/2025 20:02	50501	MECH_T1	2	4	2	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
2/21/2025 20:02	40601	PIGR_T1	51	79	28	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
2/21/2025 20:02	45002	LIME_2	1	2	1	4.4	5.4	1	0	0	0	0	0	0	0	0
2/21/2025 20:02	67106	SPRI_T2	0	0	0	0	0	0	-1.22	-1.2	1	1	0	900	900	0
2/21/2025 20:02	46102	MACI_T1	0	5	5	0	0	0	0.72	0.72	0	0	0	0	0	0
2/21/2025 20:02	45001	LIME_2	12	9	-3	0.57	0.95	0.38	0	0	0	0	0	0	0	0
2/21/2025 20:02	53901	HALI_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/21/2025 20:02	45003	LIME_2	62	64	2	1.06	1.03	-0.03	0.46	0.48	0	0	0	0	0	0
2/21/2025 20:02	40505	CRES_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
2/21/2025 20:02	51201	MTON_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
2/21/2025 20:02	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/21/2025 20:02	64101	REFR_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
2/21/2025 20:02	13103	NHAM_T2	0	0	0	0	0	0	-1.59	-1.59	1	1	0	600	600	0
2/21/2025 20:02	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:02	20601	GRWO_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/21/2025 20:02	54504	ENOL_T2	0	0	0	0	0	0	-0.98	-0.96	1	1	0	600	600	0
2/21/2025 20:02	50502	MECH_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
2/21/2025 20:02	13105	NHAM_T2	16	21	5	0.59	0.4	-0.19	0	0	0	0	0	0	0	0
2/21/2025 20:02	65802	RTWN_T2	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
2/21/2025 20:02	43202	MVIL_T2	0	0	0	0	0	0	-0.56	-0.64	0	0	0	0	0	0
2/21/2025 20:02	45802	HEGI_T2	37	12	-25	0.64	0.28	-0.36	0.86	0.98	0	0	0	0	0	0
2/21/2025 20:02	20603	GRWO_T2	23	38	15	1.37	0.6	-0.77	0	0	0	0	0	0	0	0
2/21/2025 20:02	53903	HALI_T2	2	2	0	1	1.25	0.25	0	0	0	0	0	0	0	0
2/21/2025 20:02	46203	DANV_T2	238	221	-17	0.68	0.61	-0.07	0	0	0	0	0	0	0	0
2/21/2025 20:02	47201	FAXO_T2	0	0	0	0	0	0	-2.18	-2.22	1	1	0	1200	1200	0
2/21/2025 20:02	67201	TEHI_T1	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
2/21/2025 20:02	12602	MACA_T1	57	51	-6	0.29	0.23	-0.06	0	0	0	0	0	0	0	0
2/21/2025 20:02	53902	HALI_T2	1	1	0	5.3	5.7	0.4	-0.83	-0.86	0	0	0	0	0	0
2/21/2025 20:02	42601	TUSC_T1	24	32	8	0.92	0.52	-0.4	-0.26	-0.28	2	2	0	1800	1800	0
2/21/2025 20:02	50506	MECH_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
2/21/2025 20:02	67901	WNHO_T2	2	2	0	0.2	0.15	-0.05	-0.01	-0.01	0	0	0	0	0	0
2/21/2025 20:03	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:03	40802	EXCH_T2	8	3	-5	0.19	0.13	-0.06	0	0	0	0	0	0	0	0
2/21/2025 20:03	65702	RVIL_T2	0	0	0	0	0	0	-1.47	-1.49	1	1	0	600	600	0
2/21/2025 20:03	63601	LETO_T1	5	6	1	0.38	0.5	0.12	0	0	0	0	0	0	0	0
2/21/2025 20:03	40801	EXCH_T2	2	2	0	0.4	0.25	-0.15	-0.36	-0.32	1	1	0	1200	1200	0
2/21/2025 20:03	45001	LIME_2	12	9	-3	0.57	0.95	0.38	0	0	0	0	0	0	0	0
2/21/2025 20:03	63602	LETO_T1	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
2/21/2025 20:03	20603	GRWO_T2	23	38	15	1.37	0.6	-0.77	0	0	0	0	0	0	0	0
2/21/2025 20:03	67401	WAKE_T2	0	0	0	0	0	0	-1.13	-1.09	0	0	0	0	0	0
2/21/2025 20:03	62606	ENGL_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:03	59003	MIFF_T1	0	0	0	0	0	0	0.69	0.44	0	0	0	0	0	0
2/21/2025 20:03	62605	ENGL_T1	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
2/21/2025 20:03	45002	LIME_2	1	2	1	4.4	5.4	1	0.75	0.75	0	0	0	0	0	0
2/21/2025 20:03	57205	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:03	45003	LIME_2	62	64	2	1.06	1.03	-0.03	0	0	0	0	0	0	0	0
2/21/2025 20:03	66505	SMAN_T2	3	3	0	0.57	0.6	0.03	0	0	0	0	0	0	0	0
2/21/2025 20:03	65703	RVIL_T1	0	0	0	0	0	0	-1.18	-1.25	1	1	0	900	900	0
2/21/2025 20:03	52502	PROG_T2	0	0	0	0	0	0	0.7	0.65	0	0	0	0	0	0
2/21/2025 20:03	44201	POIN_T1	0	0	0	0	0	0	-3.95	-4.15	4	4	0	4200	4200	0
2/21/2025 20:03	40505	CRES_T1	0	0	0	0	0	0	0.39	0.4	0	0	0	0	0	0
2/21/2025 20:03	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:03	59001	MIFF_T1	3	14	11	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/21/2025 20:03	57201	ROSS_T1	0	0	0	0	0	0	-0.55	-0.72	0	0	0	0	0	0
2/21/2025 20:03	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:03	57403	SPAN_T1	0	0	0	0	0	0	0.48	0.52	0	0	0	0	0	0
2/21/2025 20:03	20601	GRWO_T2	1	1	0	0.6	0.4	-0.2	0.04	0.04	0	0	0	0	0	0
2/21/2025 20:03	59002	MIFF_T1	0	5	5	0	0.24	0.24	0	0	0	0	0	0	0	0
2/21/2025 20:03	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:03	57401	SPAN_T1	0	0	0	0	0	0	-1.21	-1.12	1	1	0	600	600	0
2/21/2025 20:04	40601	PIGR_T1	51	79	28	0.27	0.24	-0.03	-0.09	-0.09	0	0	0	0	0	0
2/21/2025 20:04	50506	MECH_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
2/21/2025 20:04	18001	ZION_T1	2	2	0	7.9	9.1	1.2	0	0	0	0	0	0	0	0
2/21/2025 20:04	46203	DANV_T2	238	221	-17	0.68	0.61	-0.07	-1.59	-1.55	0	0	0	0	0	0
2/21/2025 20:04	65602	QVIL_T2	2	6	4	0.2	0.27	0.07	0	0	0	0	0	0	0	0
2/21/2025 20:04	65601	QVIL_T2	1	6	5	0.1	0.17	0.07	0	0	0	0	0	0	0	0
2/21/2025 20:04	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/21/2025 20:04	64101	REFR_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
2/21/2025 20:04	50501	MECH_T1	2	4	2	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
2/21/2025 20:04	40501	CRES_T2	8	9	1	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
2/21/2025 20:04	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:04	57205	ROSS_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
2/21/2025 20:04	20601	GRWO_T2	1	1	0	0.6	0.4	-0.2	0.04	0.04	0	0	0	0	0	0
2/21/2025 20:04	50502	MECH_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
2/21/2025 20:04	20603	GRWO_T2	23	38	15	1.37	0.6	-0.77	0	0	0	0	0	0	0	0
2/21/2025 20:04	52401	GRPA_T2	4	2	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/21/2025 20:04	52402	GRPA_T2	70	49	-21	0.75	0.46	-0.29	0	0	0	0	0	0	0	0
2/21/2025 20:04	41301	FISH_T1	1	2	1	2.1	1.15	-0.95	-0.26	-0.28	0	0	0	0	0	0
2/21/2025 20:04	41304	FISH_T2	1	1	0	0	0	0	0.03	0.04	0	0	0	0	0	0
2/21/2025 20:04	65603	QVIL_T2	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
2/21/2025 20:04	46001	BERW_T1	0	0	0	0	0	0	0.79	0.81	0	0	0	0	0	0
2/21/2025 20:04	65604	QVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 20:04	52403	GRPA_T2	140	111	-29	1.02	0.69	-0.33	0	0	0	0	0	0	0	0
2/21/2025 20:04	40602	PIGR_T1	0	1	1	0	0	0	0.29	0.25	0	0	0	0	0	0
2/21/2025 20:05	55002	NEWP_T1	3	4	1	0.83	1.03	0.2	-0.17	-0.15	0	0	0	0	0	0
2/21/2025 20:05	40602	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:05	53501	EVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/21/2025 20:05	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/21/2025 20:05	61303	EARL_T1	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
2/21/2025 20:05	64203	KINZ_T1	6	6	0	1.38	0.28	-1.1	-0.17	-0.2	1	1	0	600	600	0
2/21/2025 20:05	50502	MECH_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
2/21/2025 20:05	53502	EVIL_T2	0	0	0	0	0	0	0.05	0.11	1	1	0	600	600	0
2/21/2025 20:05	44201	POIN_T1	0	0	0	0	0	0	-1.97	-2.08	2	2	0	2100	2100	0
2/21/2025 20:05	61304	EARL_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
2/21/2025 20:05	46203	DANV_T2	238	221	-17	0.68	0.61	-0.07	-1.59	-1.55	0	0	0	0	0	0
2/21/2025 20:05	50506	MECH_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
2/21/2025 20:05	55105	WERT_T1	0	0	0	0	0	0	-0.32	-0.33	1	1	0	900	900	0
2/21/2025 20:05	67402	WAKE_T2	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
2/21/2025 20:05	50501	MECH_T1	2	4	2	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
2/21/2025 20:05	40601	PIGR_T1	51	79	28	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
2/21/2025 20:05	64204	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 20:05	64202	KINZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:06	60803	BUCK_T1	2	5	3	0.15	0.2	0.05	0	0	0	0	0	0	0	0
2/21/2025 20:06	57201	ROSS_T1	0	0	0	0	0	0	-0.55	-0.72	0	0	0	0	0	0
2/21/2025 20:06	45002	LIME_2	1	2	1	4.4	5.4	1	0.75	0.77	0	0	0	0	0	0
2/21/2025 20:06	52403	GRPA_T2	140	111	-29	1.02	0.69	-0.33	-0.17	-0.3	0	0	0	0	0	0
2/21/2025 20:06	54503	ENGL_T2	0	0	0	0	0	0	-0.32	-0.33	1	1	0	600	600	0
2/21/2025 20:06	45001	LIME_2	12	9	-3	0.57	0.95	0.38	0	0	0	0	0	0	0	0
2/21/2025 20:06	53901	HALI_T2	1	1	0	0.6	0.5	-0.1	-1.21	-1.21	0	0	0	0	0	0
2/21/2025 20:06	63305	GREE_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 20:06	65503	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:06	46203	DANV_T2	238	221	-17	0.68	0.61	-0.07	-1.55	-1.49	0	0	0	0	0	0
2/21/2025 20:06	52401	GRPA_T2	4	2	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/21/2025 20:06	52402	GRPA_T2	70	49	-21	0.75	0.46	-0.29	0	0	0	0	0	0	0	0
2/21/2025 20:06	60801	BUCK_T1	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
2/21/2025 20:06	52502	PROG_T2	0	0	0	0	0	0	0.7	0.65	0	0	0	0	0	0
2/21/2025 20:06	64101	REFR_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
2/21/2025 20:06	59003	MIFF_T1	0	0	0	0	0	0	0.69	0.44	0	0	0	0	0	0
2/21/2025 20:06	53903	HALI_T2	2	2	0	1	1.25	0.25	0	0	0	0	0	0	0	0
2/21/2025 20:06	59001	MIFF_T1	3	14	11	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/21/2025 20:06	59002	MIFF_T1	0	5	5	0	0.24	0.24	0	0	0	0	0	0	0	0
2/21/2025 20:06	63302	GREE_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
2/21/2025 20:06	57401	SPAN_T1	0	0	0	0	0	0	-1.21	-1.12	1	1	0	600	600	0
2/21/2025 20:06	53902	HALI_T2	1	1	0	5.3	5.7	0.4	0	0	0	0	0	0	0	0
2/21/2025 20:06	53501	EVIL_T2	1	0	-1	0.2	0	-0.2	-0.58	-0.55	0	0	0	0	0	0
2/21/2025 20:06	45003	LIME_2	62	64	2	1.06	1.03	-0.03	0	0	0	0	0	0	0	0
2/21/2025 20:06	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/21/2025 20:07	52403	GRPA_T2	140	111	-29	1.02	0.69	-0.33	-0.3	-0.34	0	0	0	0	0	0
2/21/2025 20:07	58706	ROSE_T2	1	0	-1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/21/2025 20:07	57403	SPAN_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
2/21/2025 20:07	65601	QVIL_T2	1	6	5	0.1	0.17	0.07	0	0	0	0	0	0	0	0
2/21/2025 20:07	63305	GREE_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 20:07	63303	GREE_T1	0	0	0	0	0	0	-1.06	-1.01	2	2	0	1800	1800	0
2/21/2025 20:07	45002	LIME_2	1	2	1	4.4	5.4	1	0	0	0	0	0	0	0	0
2/21/2025 20:07	52401	GRPA_T2	4	2	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/21/2025 20:07	58701	ROSE_T2	0	0	0	0	0	0	-0.2	-0.23	1	1	0	600	600	0
2/21/2025 20:07	65602	QVIL_T2	2	6	4	0.2	0.27	0.07	0	0	0	0	0	0	0	0
2/21/2025 20:07	45001	LIME_2	12	9	-3	0.57	0.95	0.38	0	0	0	0	0	0	0	0
2/21/2025 20:07	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:07	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:07	45003	LIME_2	62	64	2	1.06	1.03	-0.03	0	0	0	0	0	0	0	0
2/21/2025 20:07	65604	QVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/21/2025 20:07	40505	CRES_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
2/21/2025 20:07	52402	GRPA_T2	70	49	-21	0.75	0.46	-0.29	0	0	0	0	0	0	0	0
2/21/2025 20:08	53501	EVIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/21/2025 20:08	47203	FAXO_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
2/21/2025 20:08	62605	ENGL_T1	0	0	0	0	0	0	-0.78	-0.77	0	0	0	0	0	0
2/21/2025 20:08	64801	MONE_T2	2	22	20	0.1	0.17	0.07	0	0	0	0	0	0	0	0
2/21/2025 20:08	64101	REFR_T1	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
2/21/2025 20:08	64802	MONE_T2	4	13	9	0.15	0.21	0.06	0	0	0	0	0	0	0	0
2/21/2025 20:08	51204	MTON_T2	0	0	0	0	0	0	0.23	0.26	0	0	0	0	0	0
2/21/2025 20:08	52004	LING_T2	2	2	0	5.55	5.6	0.05	0.36	0.35	0	0	0	0	0	0
2/21/2025 20:08	62606	ENGL_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:09	52502	PROG_T2	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
2/21/2025 20:09	53903	HALI_T2	2	2	0	1	1.25	0.25	0	0	0	0	0	0	0	0
2/21/2025 20:09	53902	HALI_T2	1	1	0	5.3	5.7	0.4	0	0	0	0	0	0	0	0
2/21/2025 20:09	65502	MOJO_T2	0	0	0	0	0	0	-1.02	-0.95	0	0	0	0	0	0
2/21/2025 20:09	53901	HALI_T2	1	1	0	0.6	0.5	-0.1	-2.42	-2.44	0	0	0	0	0	0
2/21/2025 20:09	55105	WERT_T1	0	0	0	0	0	0	-0.33	-0.29	1	1	0	900	900	0
2/21/2025 20:09	50501	MECH_T1	2	4	2	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
2/21/2025 20:09	50502	MECH_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
2/21/2025 20:09	67901	WNHO_T2	2	2	0	0.2	0.15	-0.05	-0.01	0	0	0	0	0	0	0
2/21/2025 20:09	50506	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:09	40505	CRES_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
2/21/2025 20:10	53501	EVIL_T2	1	0	-1	0.2	0	-0.2	-0.55	-0.52	0	0	0	0	0	0
2/21/2025 20:10	60803	BUCK_T1	2	5	3	0.15	0.2	0.05	-0.47	-0.46	1	1	0	600	600	0
2/21/2025 20:11	54601	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/21/2025 20:12	53903	HALI_T2	2	2	0	1	1.25	0.25	-0.13	-0.11	0	0	0	0	0	0
2/21/2025 20:12	53902	HALI_T2	1	1	0	5.3	5.7	0.4	0	0	0	0	0	0	0	0
2/21/2025 20:12	53901	HALI_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/21/2025 20:12	52502	PROG_T2	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
2/21/2025 20:14	58401	MORO_T1	0	0	0	0	0	0	-0.98	-0.99	1	1	0	600	600	0
2/21/2025 20:14	58402	MORO_T1	35	2	-33	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/21/2025 20:15	65502	MOJO_T2	0	0	0	0	0	0	-1.02	-0.95	0	0	0	0	0	0
2/21/2025 20:17	58201	NEWV_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/21/2025 20:17	58402	MORO_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/21/2025 20:17	58202	NEWV_T1	0	1	1	0	0	0	-0.09	-0.14	0	0	0	0	0	0
2/21/2025 20:17	58401	MORO_T1	0	0	0	0	0	0	-1.96	-1.98	2	2	0	1200	1200	0
2/21/2025 20:18	58202	NEWV_T1	0	1	1	0	0	0	-0.09	-0.14	0	0	0	0	0	0
2/21/2025 20:18	58401	MORO_T1	0	0	0	0	0	0	-1.96	-1.98	2	2	0	1200	1200	0
2/21/2025 20:18	58402	MORO_T1	2	0	-2	0.15	0	-0.15	-0.27	-0.28	3	3	0	1950	1950	0
2/21/2025 20:18	58201	NEWV_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/21/2025 20:22	52503	PROG_T2	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/21/2025 20:30	14801	TREI_T2	1	1	0	0.2	0	-0.2	0.72	0.74	0	0	0	0	0	0
2/21/2025 20:33	61301	EARL_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
2/21/2025 21:54	41205	KENM_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
2/21/2025 22:11	58201	NEWV_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/21/2025 22:11	58202	NEWV_T1	2	0	-2	0.1	0	-0.1	-0.25	-0.25	0	0	0	0	0	0
2/22/2025 0:27	17802	GILB_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
2/22/2025 3:06	20603	GRWO_T2	3	19	16	0.2	0.13	-0.07	0.48	0.51	0	0	0	0	0	0
2/22/2025 3:06	20601	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 7:25	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 7:25	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 7:28	16101	BING_T2	0	0	0	0	0	0	0.62	0.6	0	0	0	0	0	0
2/22/2025 7:28	40201	BEGA_T2	11	20	9	0.49	1.05	0.56	0	0	0	0	0	0	0	0
2/22/2025 7:38	43202	MVIL_T2	1	3	2	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
2/22/2025 7:38	43201	MVIL_T2	1	2	1	0.9	1.4	0.5	-0.32	-0.31	0	0	0	0	0	0
2/22/2025 7:38	40302	TAMA_T3	0	3	3	0	0.1	0.1	0.15	0.16	0	0	0	0	0	0
2/22/2025 7:38	40301	TAMA_T3	2	1	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/22/2025 7:38	55001	NEWP_T1	9	1	-8	0.53	0	-0.53	0	0	0	0	0	0	0	0
2/22/2025 7:38	55002	NEWP_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
2/22/2025 7:41	40301	TAMA_T3	2	1	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/22/2025 7:41	40302	TAMA_T3	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/22/2025 7:43	45501	DERR_T2	2	5	3	0.65	0	-0.65	-0.6	-0.59	2	2	0	1800	1800	0
2/22/2025 7:43	40501	CRES_T2	13	8	-5	0.24	0.3	0.06	0	0	0	0	0	0	0	0
2/22/2025 7:43	45502	DERR_T2	2	5	3	1.1	0.58	-0.52	0	0	0	0	0	0	0	0
2/22/2025 7:44	40501	CRES_T2	13	8	-5	0.24	0.3	0.06	0	0	0	0	0	0	0	0
2/22/2025 7:44	46204	DANV_T2	104	116	12	0.53	0.67	0.14	0	0	0	0	0	0	0	0
2/22/2025 7:44	46206	DANV_T2	4	18	14	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
2/22/2025 7:44	46203	DANV_T2	15	20	5	0.74	0.79	0.05	-1.57	-1.61	0	0	0	0	0	0
2/22/2025 7:45	40501	CRES_T2	7	7	0	0.23	0.33	0.1	0	0	0	0	0	0	0	0
2/22/2025 7:46	40501	CRES_T2	7	7	0	0.23	0.33	0.1	0	0	0	0	0	0	0	0
2/22/2025 7:47	46206	DANV_T2	3	30	27	0.2	0.86	0.66	1.37	1.61	1	1	0	1200	1200	0
2/22/2025 7:47	46203	DANV_T2	16	23	7	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
2/22/2025 7:47	45502	DERR_T2	4	5	1	0.63	0.95	0.32	0	0	0	0	0	0	0	0
2/22/2025 7:47	40501	CRES_T2	7	7	0	0.23	0.33	0.1	0	0	0	0	0	0	0	0
2/22/2025 7:47	46204	DANV_T2	103	122	19	0.67	0.86	0.19	0	0	0	0	0	0	0	0
2/22/2025 7:47	45501	DERR_T2	5	2	-3	0.4	0	-0.4	-0.6	-0.59	2	2	0	1800	1800	0
2/22/2025 7:49	52404	GRPA_T2	5	7	2	0.38	0.47	0.09	0	0	0	0	0	0	0	0
2/22/2025 7:49	52402	GRPA_T2	46	67	21	0.79	0.56	-0.23	0	0	0	0	0	0	0	0
2/22/2025 7:49	52403	GRPA_T2	29	14	-15	0.61	0.61	0	-1.16	-1.28	0	0	0	0	0	0
2/22/2025 7:49	52401	GRPA_T2	12	9	-3	0.43	0.28	-0.15	0	0	0	0	0	0	0	0
2/22/2025 7:58	16103	BING_T2	0	0	0	0	0	0	-1.51	-1.5	1	1	0	900	900	0
2/22/2025 7:59	46203	DANV_T2	16	23	7	0.73	0.7	-0.03	-1.61	-1.6	0	0	0	0	0	0
2/22/2025 7:59	46206	DANV_T2	3	30	27	0.2	0.86	0.66	0	0	0	0	0	0	0	0
2/22/2025 7:59	46204	DANV_T2	103	122	19	0.67	0.86	0.19	0	0	0	0	0	0	0	0
2/22/2025 8:00	53501	EVIL_T2	0	3	3	0	1.87	1.87	-0.65	-0.71	1	1	0	600	600	0
2/22/2025 8:00	46203	DANV_T2	20	24	4	0.79	0.65	-0.14	-3.21	-3.19	0	0	0	0	0	0
2/22/2025 8:00	46206	DANV_T2	18	44	26	0.84	0.41	-0.43	0	0	0	0	0	0	0	0
2/22/2025 8:00	46204	DANV_T2	116	132	16	0.89	0.96	0.07	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/22/2025 8:01	46204	DANV_T2	116	132	16	0.89	0.96	0.07	0	0	0	0	0	0	0	0
2/22/2025 8:01	46206	DANV_T2	18	44	26	0.84	0.41	-0.43	1.61	2.08	1	1	0	1200	1200	0
2/22/2025 8:01	53501	EVIL_T2	0	3	3	0	1.87	1.87	0	0	0	0	0	0	0	0
2/22/2025 8:01	46203	DANV_T2	20	24	4	0.79	0.65	-0.14	-1.61	-1.6	0	0	0	0	0	0
2/22/2025 8:02	46204	DANV_T2	116	132	16	0.89	0.96	0.07	0	0	0	0	0	0	0	0
2/22/2025 8:02	46206	DANV_T2	18	44	26	0.84	0.41	-0.43	1.61	2.08	1	1	0	1200	1200	0
2/22/2025 8:02	46203	DANV_T2	20	24	4	0.79	0.65	-0.14	0	0	0	0	0	0	0	0
2/22/2025 8:02	41602	CLEV_T1	2	13	11	0.2	0.1	-0.1	0	0	1	1	0	600	600	0
2/22/2025 8:04	52404	GRPA_T2	7	6	-1	0.5	1.1	0.6	0	0	0	0	0	0	0	0
2/22/2025 8:04	52401	GRPA_T2	9	6	-3	0.42	0.17	-0.25	0	0	0	0	0	0	0	0
2/22/2025 8:04	52403	GRPA_T2	5	29	24	1.02	0.61	-0.41	-1.28	-1.34	0	0	0	0	0	0
2/22/2025 8:04	52402	GRPA_T2	47	62	15	0.54	0.64	0.1	0	0	0	0	0	0	0	0
2/22/2025 8:07	41901	REED_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/22/2025 8:07	41902	REED_T1	48	80	32	0.54	0.44	-0.1	0.17	0.25	2	2	0	1800	1800	0
2/22/2025 8:08	41902	REED_T1	48	80	32	0.54	0.44	-0.1	0	0	0	0	0	0	0	0
2/22/2025 8:08	41901	REED_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/22/2025 8:09	65603	QVIL_T2	0	1	1	0	0.1	0.1	0.17	0.15	0	0	0	0	0	0
2/22/2025 8:09	65604	QVIL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/22/2025 8:09	65602	QVIL_T2	0	7	7	0	0.27	0.27	0	0	0	0	0	0	0	0
2/22/2025 8:09	41902	REED_T1	48	80	32	0.54	0.44	-0.1	0.08	0.12	1	1	0	900	900	0
2/22/2025 8:09	41901	REED_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/22/2025 8:09	65601	QVIL_T2	1	47	46	0.1	0.21	0.11	0	0	0	0	0	0	0	0
2/22/2025 8:10	41901	REED_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/22/2025 8:10	41902	REED_T1	48	80	32	0.54	0.44	-0.1	0.08	0.12	1	1	0	900	900	0
2/22/2025 8:13	29402	BELT_T1	1	1	0	8.2	8.6	0.4	0	0	0	0	0	0	0	0
2/22/2025 8:13	29401	BELT_T1	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
2/22/2025 8:14	11104	EGYP_T1	2	10	8	0.6	0	-0.6	0.54	0.5	0	0	0	0	0	0
2/22/2025 8:14	40501	CRES_T2	4	11	7	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
2/22/2025 8:14	11102	EGYP_T1	0	7	7	0	0.42	0.42	0	0	0	0	0	0	0	0
2/22/2025 8:15	63305	GREE_T1	4	11	7	0.35	0.32	-0.03	-2.52	-2.51	1	1	0	900	900	0
2/22/2025 8:16	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 8:18	11102	EGYP_T1	6	7	1	0.42	0	-0.42	0	0	0	0	0	0	0	0
2/22/2025 8:18	11104	EGYP_T1	9	1	-8	0.27	0.3	0.03	0.54	0.5	0	0	0	0	0	0
2/22/2025 8:19	45002	LIME_2	1	1	0	3.7	3.7	0	0	0	0	0	0	0	0	0
2/22/2025 8:19	45003	LIME_2	14	6	-8	0.71	2.3	1.59	0.81	0.8	0	0	0	0	0	0
2/22/2025 8:19	45001	LIME_2	2	6	4	0.25	0.12	-0.13	0	0	0	0	0	0	0	0
2/22/2025 8:21	45002	LIME_2	1	1	0	3.7	3.7	0	0	0	0	0	0	0	0	0
2/22/2025 8:21	45003	LIME_2	14	6	-8	0.71	2.3	1.59	0.4	0.39	0	0	0	0	0	0
2/22/2025 8:21	45001	LIME_2	2	6	4	0.25	0.12	-0.13	0	0	0	0	0	0	0	0
2/22/2025 8:21	44201	POIN_T1	65	147	82	0.2	0.34	0.14	-2.13	-2.16	2	2	0	2100	2100	0
2/22/2025 8:22	45001	LIME_2	2	6	4	0.25	0.12	-0.13	0	0	0	0	0	0	0	0
2/22/2025 8:22	45003	LIME_2	14	6	-8	0.71	2.3	1.59	0.4	0.39	0	0	0	0	0	0
2/22/2025 8:22	45002	LIME_2	1	1	0	3.7	3.7	0	0	0	0	0	0	0	0	0
2/22/2025 8:23	44201	POIN_T1	65	147	82	0.2	0.34	0.14	-2.13	-2.16	2	2	0	2100	2100	0
2/22/2025 8:25	41902	REED_T1	59	81	22	0.56	0.61	0.05	0.12	0.12	1	1	0	900	900	0
2/22/2025 8:26	40201	BEGA_T2	6	12	6	0.68	0.4	-0.28	0	0	0	0	0	0	0	0
2/22/2025 8:27	65602	QVIL_T2	3	10	7	0.2	0.34	0.14	0	0	0	0	0	0	0	0
2/22/2025 8:27	65603	QVIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
2/22/2025 8:27	41902	REED_T1	59	81	22	0.56	0.61	0.05	0.12	0.12	1	1	0	900	900	0
2/22/2025 8:27	65604	QVIL_T2	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/22/2025 8:27	65601	QVIL_T2	23	68	45	0.13	0.3	0.17	-0.81	-0.87	1	1	0	900	900	0
2/22/2025 8:29	40501	CRES_T2	7	8	1	0.21	0.29	0.08	0	0	0	0	0	0	0	0
2/22/2025 8:35	60502	NMAN_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
2/22/2025 8:36	45002	LIME_2	1	1	0	2.9	5	2.1	0	0	0	0	0	0	0	0
2/22/2025 8:36	45001	LIME_2	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
2/22/2025 8:36	45003	LIME_2	6	4	-2	1.18	2.3	1.12	0.39	0.35	0	0	0	0	0	0
2/22/2025 8:37	25402	LAHA_T2	53	35	-18	0.6	0.89	0.29	-0.18	-0.14	0	0	0	0	0	0
2/22/2025 8:37	25404	LAHA_T2	1	1	0	1.4	0	-1.4	0	0	0	0	0	0	0	0
2/22/2025 8:39	41902	REED_T1	76	27	-49	0.58	0.6	0.02	0.12	0.2	1	1	0	900	900	0
2/22/2025 8:43	40201	BEGA_T2	6	14	8	0.4	0.72	0.32	0	0	0	0	0	0	0	0
2/22/2025 8:46	17802	GILB_T1	2	2	0	0.35	1	0.65	0.2	0.19	0	0	0	0	0	0
2/22/2025 8:50	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
2/22/2025 8:51	52404	GRPA_T2	6	12	6	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
2/22/2025 8:51	52401	GRPA_T2	7	2	-5	0.33	0	-0.33	-0.71	-0.72	0	0	0	0	0	0
2/22/2025 8:51	52403	GRPA_T2	65	80	15	0.76	0.61	-0.15	0	0	0	0	0	0	0	0
2/22/2025 8:51	52402	GRPA_T2	151	130	-21	0.97	1.06	0.09	0	0	0	0	0	0	0	0
2/22/2025 8:52	10401	LIGA_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
2/22/2025 8:53	46301	ROHR_T1	2	2	0	2.25	2.6	0.35	0	0	0	0	0	0	0	0
2/22/2025 8:53	46302	ROHR_T1	1	4	3	1	0	-1	0.26	0.26	0	0	0	0	0	0
2/22/2025 8:54	15201	SFAR_T1	0	0	0	0	0	0	-0.78	-0.78	2	2	0	1800	1800	0
2/22/2025 8:56	15203	SFAR_T2	0	1	1	0	0.1	0.1	-1.25	-1.27	0	0	0	0	0	0
2/22/2025 8:56	15201	SFAR_T1	0	0	0	0	0	0	-1.56	-1.57	4	4	0	3600	3600	0
2/22/2025 8:59	46204	DANV_T2	121	119	-2	1.02	0.68	-0.34	0	0	0	0	0	0	0	0
2/22/2025 8:59	46203	DANV_T2	28	45	17	0.7	0.64	-0.06	-1.69	-1.67	0	0	0	0	0	0
2/22/2025 8:59	46206	DANV_T2	21	23	2	0.5	1.04	0.54	0	0	0	0	0	0	0	0
2/22/2025 9:00	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
2/22/2025 9:00	65503	MOJO_T2	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
2/22/2025 9:00	28102	TWLA_T2	4	3	-1	0.1	0.2	0.1	0.3	0.3	0	0	0	0	0	0
2/22/2025 9:00	53903	HALI_T2	2	2	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
2/22/2025 9:00	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
2/22/2025 9:00	40602	PIGR_T1	0	4	4	0	0.25	0.25	-1.14	-1.14	0	0	0	0	0	0
2/22/2025 9:00	60201	ATGL_T2	70	110	40	0.35	0.4	0.05	-0.01	-0.02	0	0	0	0	0	0
2/22/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.38	0.33	0	0	0	0	0	0
2/22/2025 9:00	53901	HALI_T2	1	1	0	0.2	0.3	0.1	-1.22	-1.25	0	0	0	0	0	0
2/22/2025 9:00	40503	CRES_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 9:00	40601	PIGR_T1	14	29	15	0.19	0.2	0.01	0	0	0	0	0	0	0	0
2/22/2025 9:06	67503	WEWI_T2	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
2/22/2025 9:06	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
2/22/2025 9:08	46206	DANV_T2	19	15	-4	0.9	0.46	-0.44	0	0	0	0	0	0	0	0
2/22/2025 9:08	45002	LIME_2	1	1	0	5	5.1	0.1	0	0	0	0	0	0	0	0
2/22/2025 9:08	45001	LIME_2	5	4	-1	0.66	1.5	0.84	0	0	0	0	0	0	0	0
2/22/2025 9:08	46204	DANV_T2	119	107	-12	0.8	0.39	-0.41	0	0	0	0	0	0	0	0
2/22/2025 9:08	46203	DANV_T2	36	53	17	0.7	0.59	-0.11	-1.67	-1.73	0	0	0	0	0	0
2/22/2025 9:08	45003	LIME_2	4	6	2	1.35	1.38	0.03	0.3	0.32	0	0	0	0	0	0
2/22/2025 9:09	46302	ROHR_T1	0	6	6	0	0.5	0.5	0.26	0.26	0	0	0	0	0	0
2/22/2025 9:09	46301	ROHR_T1	2	2	0	2.55	2.6	0.05	0	0	0	0	0	0	0	0
2/22/2025 9:10	41902	REED_T1	16	7	-9	0.64	0.1	-0.54	0.11	0.2	1	1	0	900	900	0
2/22/2025 9:10	55001	NEWP_T1	1	0	-1	0.1	0	-0.1	-0.9	-0.87	1	1	0	600	600	0
2/22/2025 9:10	60201	ATGL_T2	70	110	40	0.35	0.4	0.05	0	0	0	0	0	0	0	0
2/22/2025 9:10	55002	NEWP_T1	2	4	2	0.35	0.75	0.4	0	0	0	0	0	0	0	0
2/22/2025 9:11	60201	ATGL_T2	70	110	40	0.35	0.4	0.05	-0.02	-0.02	0	0	0	0	0	0
2/22/2025 9:11	66505	SMAN_T2	3	0	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
2/22/2025 9:11	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 9:12	45501	DERR_T2	2	2	0	0.3	0.3	0	-0.48	-0.49	2	2	0	1800	1800	0
2/22/2025 9:12	60803	BUCK_T1	9	17	8	0.28	0.29	0.01	0	0	0	0	0	0	0	0
2/22/2025 9:12	67901	WNHO_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/22/2025 9:12	60801	BUCK_T1	2	9	7	0.25	0.11	-0.14	-0.16	-0.18	0	0	0	0	0	0
2/22/2025 9:12	45502	DERR_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/22/2025 9:12	40201	BEGA_T2	7	4	-3	0.59	0.25	-0.34	0	0	0	0	0	0	0	0
2/22/2025 9:13	46206	DANV_T2	19	15	-4	0.9	0.46	-0.44	0	0	0	0	0	0	0	0
2/22/2025 9:13	46203	DANV_T2	36	53	17	0.7	0.59	-0.11	-3.35	-3.46	0	0	0	0	0	0
2/22/2025 9:13	40201	BEGA_T2	7	4	-3	0.59	0.25	-0.34	0	0	0	0	0	0	0	0
2/22/2025 9:13	46204	DANV_T2	119	107	-12	0.8	0.39	-0.41	0	0	0	0	0	0	0	0
2/22/2025 9:14	46203	DANV_T2	36	53	17	0.7	0.59	-0.11	-3.35	-3.46	0	0	0	0	0	0
2/22/2025 9:14	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 9:14	46204	DANV_T2	119	107	-12	0.8	0.39	-0.41	0	0	0	0	0	0	0	0
2/22/2025 9:14	46206	DANV_T2	19	15	-4	0.9	0.46	-0.44	0	0	0	0	0	0	0	0
2/22/2025 9:15	46204	DANV_T2	107	68	-39	0.71	0.33	-0.38	0	0	0	0	0	0	0	0
2/22/2025 9:15	53502	EVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/22/2025 9:15	46206	DANV_T2	13	10	-3	0.89	0.18	-0.71	4.55	4.87	2	2	0	2400	2400	0
2/22/2025 9:15	53501	EVIL_T2	2	3	1	2.95	3	0.05	0	0	0	0	0	0	0	0
2/22/2025 9:15	40501	CRES_T2	2	8	6	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
2/22/2025 9:15	46203	DANV_T2	43	83	40	0.61	0.66	0.05	-1.67	-1.73	0	0	0	0	0	0
2/22/2025 9:16	46204	DANV_T2	107	68	-39	0.71	0.33	-0.38	0	0	0	0	0	0	0	0
2/22/2025 9:16	40501	CRES_T2	2	8	6	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
2/22/2025 9:16	45501	DERR_T2	1	1	0	0.1	0.9	0.8	-0.48	-0.49	2	2	0	1800	1800	0
2/22/2025 9:16	45502	DERR_T2	2	2	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
2/22/2025 9:16	40101	HUNT_T2	12	12	0	1.23	1.05	-0.18	-1.93	-2.02	0	0	0	0	0	0
2/22/2025 9:16	46203	DANV_T2	43	83	40	0.61	0.66	0.05	0	0	0	0	0	0	0	0
2/22/2025 9:16	46206	DANV_T2	13	10	-3	0.89	0.18	-0.71	2.28	2.44	1	1	0	1200	1200	0
2/22/2025 9:17	53902	HALI_T2	1	1	0	5.2	5.6	0.4	-0.86	-0.91	0	0	0	0	0	0
2/22/2025 9:17	53903	HALI_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
2/22/2025 9:17	53901	HALI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/22/2025 9:17	40501	CRES_T2	2	8	6	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
2/22/2025 9:18	53901	HALI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/22/2025 9:18	46204	DANV_T2	107	68	-39	0.71	0.33	-0.38	0	0	0	0	0	0	0	0
2/22/2025 9:18	46203	DANV_T2	43	83	40	0.61	0.66	0.05	-1.67	-1.73	0	0	0	0	0	0
2/22/2025 9:18	53903	HALI_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
2/22/2025 9:18	61302	EARL_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/22/2025 9:18	61304	EARL_T1	0	0	0	0	0	0	-0.76	-0.82	1	1	0	600	600	0
2/22/2025 9:18	53902	HALI_T2	1	1	0	5.2	5.6	0.4	-0.86	-0.91	0	0	0	0	0	0
2/22/2025 9:18	46206	DANV_T2	13	10	-3	0.89	0.18	-0.71	0	0	0	0	0	0	0	0
2/22/2025 9:19	53902	HALI_T2	1	1	0	5.2	5.6	0.4	0	0	0	0	0	0	0	0
2/22/2025 9:19	53903	HALI_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
2/22/2025 9:19	53501	EVIL_T2	2	3	1	2.95	3	0.05	-0.78	-0.8	1	1	0	600	600	0
2/22/2025 9:19	25402	LAHA_T2	36	29	-7	0.76	0.66	-0.1	-0.15	-0.06	0	0	0	0	0	0
2/22/2025 9:19	25404	LAHA_T2	1	3	2	1	0.6	-0.4	0	0	0	0	0	0	0	0
2/22/2025 9:19	53502	EVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/22/2025 9:19	53901	HALI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/22/2025 9:20	53903	HALI_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
2/22/2025 9:20	53902	HALI_T2	1	1	0	5.2	5.6	0.4	-2.58	-2.74	0	0	0	0	0	0
2/22/2025 9:20	53901	HALI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/22/2025 9:21	64801	MONE_T2	0	1	1	0	0.2	0.2	83.96	83.96	0	0	0	0	0	0
2/22/2025 9:21	64802	MONE_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/22/2025 9:21	47802	MOCA_T2	1	1	0	0.1	0	-0.1	-0.8	-0.8	0	0	0	0	0	0
2/22/2025 9:21	43202	MVIL_T2	3	2	-1	1.1	0.65	-0.45	-0.53	-0.6	0	0	0	0	0	0
2/22/2025 9:22	52502	PROG_T2	1	0	-1	0.1	0	-0.1	-0.38	0.56	1	0	-1	900	0	-900
2/22/2025 9:22	52503	PROG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/22/2025 9:22	43202	MVIL_T2	3	2	-1	1.1	0.65	-0.45	-0.53	-0.6	0	0	0	0	0	0
2/22/2025 9:24	52503	PROG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/22/2025 9:24	55002	NEWP_T1	2	5	3	0.75	0.92	0.17	0	0	0	0	0	0	0	0
2/22/2025 9:24	55001	NEWP_T1	0	0	0	0	0	0	-0.87	-0.93	1	1	0	600	600	0
2/22/2025 9:24	52502	PROG_T2	1	0	-1	0.1	0	-0.1	-0.38	0.56	1	0	-1	900	0	-900

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/22/2025 9:25	52502	PROG_T2	1	0	-1	0.1	0	-0.1	-0.38	0.56	1	0	-1	900	0	-900
2/22/2025 9:25	52503	PROG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/22/2025 9:25	64801	MONE_T2	0	1	1	0	0.2	0.2	83.96	83.96	0	0	0	0	0	0
2/22/2025 9:25	64802	MONE_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/22/2025 9:25	57401	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 9:26	57401	SPAN_T1	0	0	0	0	0	0	-1.53	-1.58	1	1	0	600	600	0
2/22/2025 9:26	52502	PROG_T2	1	0	-1	0.1	0	-0.1	-0.38	0.56	1	0	-1	900	0	-900
2/22/2025 9:26	55001	NEWP_T1	0	0	0	0	0	0	-0.87	-0.93	1	1	0	600	600	0
2/22/2025 9:26	29402	BELT_T1	1	3	2	8.2	3.3	-4.9	0	0	0	0	0	0	0	0
2/22/2025 9:26	29401	BELT_T1	1	61	60	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/22/2025 9:26	10805	OHHI_T2	1	1	0	8.4	8.4	0	-1.13	-1.12	1	1	0	600	600	0
2/22/2025 9:26	52503	PROG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/22/2025 9:26	55002	NEWP_T1	2	5	3	0.75	0.92	0.17	0	0	0	0	0	0	0	0
2/22/2025 9:27	41602	CLEV_T1	1	1	0	1.2	0	-1.2	0	0	1	1	0	600	600	0
2/22/2025 9:27	29401	BELT_T1	1	61	60	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/22/2025 9:27	55103	WERT_T1	0	1	1	0	8.3	8.3	0	0	0	0	0	0	0	0
2/22/2025 9:27	55105	WERT_T1	0	0	0	0	0	0	-0.46	-0.44	1	1	0	900	900	0
2/22/2025 9:27	29402	BELT_T1	1	3	2	8.2	3.3	-4.9	0	0	0	0	0	0	0	0
2/22/2025 9:28	29402	BELT_T1	1	3	2	8.2	3.3	-4.9	0	0	0	0	0	0	0	0
2/22/2025 9:28	57401	SPAN_T1	0	0	0	0	0	0	-1.53	-1.58	1	1	0	600	600	0
2/22/2025 9:28	29401	BELT_T1	1	61	60	0.1	0.3	0.2	0	0	1	1	0	900	900	0
2/22/2025 9:28	16101	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/22/2025 9:28	16103	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 9:28	16102	BING_T2	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
2/22/2025 9:30	67201	TEHI_T1	2	3	1	0.15	0.3	0.15	0.33	0.46	0	0	0	0	0	0
2/22/2025 9:33	52401	GRPA_T2	4	2	-2	0.18	0	-0.18	0	0	0	0	0	0	0	0
2/22/2025 9:33	52403	GRPA_T2	24	30	6	0.84	0.69	-0.15	-0.95	-0.94	0	0	0	0	0	0
2/22/2025 9:33	52404	GRPA_T2	4	6	2	0.38	0.4	0.02	0	0	0	0	0	0	0	0
2/22/2025 9:33	52402	GRPA_T2	79	87	8	0.95	0.83	-0.12	0	0	0	0	0	0	0	0
2/22/2025 9:34	52403	GRPA_T2	24	30	6	0.84	0.69	-0.15	-1.89	-1.87	0	0	0	0	0	0
2/22/2025 9:34	64201	KINZ_T1	0	0	0	0	0	0	-0.71	-0.66	3	3	0	1500	1500	0
2/22/2025 9:34	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 9:34	64202	KINZ_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/22/2025 9:34	52402	GRPA_T2	79	87	8	0.95	0.83	-0.12	0	0	0	0	0	0	0	0
2/22/2025 9:34	64204	KINZ_T1	47	59	12	0.5	0.61	0.11	0	0	0	0	0	0	0	0
2/22/2025 9:34	52404	GRPA_T2	4	6	2	0.38	0.4	0.02	0	0	0	0	0	0	0	0
2/22/2025 9:34	52401	GRPA_T2	4	2	-2	0.18	0	-0.18	0	0	0	0	0	0	0	0
2/22/2025 9:35	52402	GRPA_T2	79	87	8	0.95	0.83	-0.12	0	0	0	0	0	0	0	0
2/22/2025 9:35	64201	KINZ_T1	0	0	0	0	0	0	-0.71	-0.66	3	3	0	1500	1500	0
2/22/2025 9:35	52403	GRPA_T2	24	30	6	0.84	0.69	-0.15	-0.95	-0.94	0	0	0	0	0	0
2/22/2025 9:35	52401	GRPA_T2	4	2	-2	0.18	0	-0.18	-0.83	-0.8	0	0	0	0	0	0
2/22/2025 9:35	64204	KINZ_T1	47	59	12	0.5	0.61	0.11	0	0	0	0	0	0	0	0
2/22/2025 9:35	52404	GRPA_T2	4	6	2	0.38	0.4	0.02	0	0	0	0	0	0	0	0
2/22/2025 9:35	64202	KINZ_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/22/2025 9:36	64801	MONE_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
2/22/2025 9:36	64802	MONE_T2	1	5	4	0.2	0.24	0.04	0	0	0	0	0	0	0	0
2/22/2025 9:37	46302	ROHR_T1	2	3	1	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/22/2025 9:37	46301	ROHR_T1	2	2	0	2.6	4.4	1.8	0.25	0.24	0	0	0	0	0	0
2/22/2025 9:38	55002	NEWP_T1	4	4	0	0.75	1.38	0.63	-0.2	-0.2	0	0	0	0	0	0
2/22/2025 9:39	64802	MONE_T2	1	5	4	0.2	0.24	0.04	-0.01	-0.01	0	0	0	0	0	0
2/22/2025 9:39	64801	MONE_T2	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
2/22/2025 9:40	52401	GRPA_T2	4	2	-2	0.18	0	-0.18	-0.8	-0.74	0	0	0	0	0	0
2/22/2025 9:40	52403	GRPA_T2	24	30	6	0.84	0.69	-0.15	0	0	0	0	0	0	0	0
2/22/2025 9:40	52404	GRPA_T2	4	6	2	0.38	0.4	0.02	0	0	0	0	0	0	0	0
2/22/2025 9:40	52402	GRPA_T2	79	87	8	0.95	0.83	-0.12	0	0	0	0	0	0	0	0
2/22/2025 9:42	45402	WBLO_T2	3	3	0	0.13	0.63	0.5	-1.42	-1.44	1	1	0	900	900	0
2/22/2025 9:43	60801	BUCK_T1	9	28	19	0.11	0.3	0.19	-0.48	-0.39	0	0	0	0	0	0
2/22/2025 9:43	46206	DANV_T2	10	9	-1	0.45	0.65	0.2	0	0	0	0	0	0	0	0
2/22/2025 9:43	46204	DANV_T2	64	62	-2	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
2/22/2025 9:43	46203	DANV_T2	50	87	37	0.59	0.68	0.09	-1.76	-1.75	0	0	0	0	0	0
2/22/2025 9:43	40201	BEGA_T2	2	1	-1	1.35	2.2	0.85	0	0	0	0	0	0	0	0
2/22/2025 9:43	61001	DONV_T1	1	1	0	0.3	0.7	0.4	0	0.03	0	0	0	0	0	0
2/22/2025 9:43	60803	BUCK_T1	16	20	4	0.31	0.5	0.19	-0.44	-0.44	1	1	0	600	600	0
2/22/2025 9:44	60803	BUCK_T1	16	20	4	0.31	0.5	0.19	-1.76	-1.76	4	4	0	2400	2400	0
2/22/2025 9:44	61001	DONV_T1	1	1	0	0.3	0.7	0.4	0	0.03	0	0	0	0	0	0
2/22/2025 9:44	60801	BUCK_T1	9	28	19	0.11	0.3	0.19	0	0	0	0	0	0	0	0
2/22/2025 9:45	60801	BUCK_T1	24	26	2	0.28	0.27	-0.01	-0.16	-0.13	0	0	0	0	0	0
2/22/2025 9:45	60803	BUCK_T1	18	20	2	0.51	0.42	-0.09	0	0	0	0	0	0	0	0
2/22/2025 9:45	46203	DANV_T2	83	106	23	0.66	0.76	0.1	-1.76	-1.75	0	0	0	0	0	0
2/22/2025 9:45	46206	DANV_T2	5	11	6	0.36	0.38	0.02	0	0	0	0	0	0	0	0
2/22/2025 9:45	46204	DANV_T2	52	57	5	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
2/22/2025 9:46	61001	DONV_T1	1	1	0	0.7	0.6	-0.1	0	0.03	0	0	0	0	0	0
2/22/2025 9:46	40201	BEGA_T2	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
2/22/2025 9:48	53501	EVIL_T2	2	3	1	4.75	1.87	-2.88	0	0	0	0	0	0	0	0
2/22/2025 9:48	53502	EVIL_T2	0	0	0	0	0	0	0.15	0.15	1	1	0	600	600	0
2/22/2025 9:50	10401	LIGA_T1	33	28	-5	0.24	0.25	0.01	0	0	0	0	0	0	0	0
2/22/2025 9:51	58402	MORO_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
2/22/2025 9:51	58401	MORO_T1	0	0	0	0	0	0	-1	-0.99	1	1	0	600	600	0
2/22/2025 9:53	65502	MOJO_T2	0	0	0	0	0	0	-1.86	-1.82	0	0	0	0	0	0
2/22/2025 9:54	58401	MORO_T1	0	0	0	0	0	0	-1.97	-2.05	2	2	0	1200	1200	0
2/22/2025 9:54	58402	MORO_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
2/22/2025 9:56	45402	WBLO_T2	3	4	1	0.6	0.88	0.28	-1.44	-1.43	1	1	0	900	900	0
2/22/2025 9:56	17002	RIRO_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/22/2025 9:59	45501	DERR_T2	1	1	0	0.9	0.9	0	-0.47	-0.5	2	2	0	1800	1800	0
2/22/2025 9:59	45502	DERR_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/22/2025 10:04	45002	LIME_2	1	1	0	3.8	4.7	0.9	0	0	0	0	0	0	0	0
2/22/2025 10:04	45003	LIME_2	2	1	-1	1.75	3.4	1.65	0	0	0	0	0	0	0	0
2/22/2025 10:04	45001	LIME_2	7	14	7	0.14	0.2	0.06	0	0	0	0	0	0	0	0
2/22/2025 10:06	45002	LIME_2	1	1	0	3.8	4.7	0.9	0	0	0	0	0	0	0	0
2/22/2025 10:06	64802	MONE_T2	5	1	-4	0.24	0.7	0.46	-0.01	-0.01	0	0	0	0	0	0
2/22/2025 10:06	45001	LIME_2	7	14	7	0.14	0.2	0.06	0	0	0	0	0	0	0	0
2/22/2025 10:06	52403	GRPA_T2	20	22	2	0.71	0.77	0.06	-0.99	-0.93	0	0	0	0	0	0
2/22/2025 10:06	61001	DONV_T1	1	1	0	0.4	0.8	0.4	0	-0.02	0	0	0	0	0	0
2/22/2025 10:06	45003	LIME_2	2	1	-1	1.75	3.4	1.65	0.36	0.37	0	0	0	0	0	0
2/22/2025 10:06	52402	GRPA_T2	54	60	6	0.84	0.6	-0.24	0	0	0	0	0	0	0	0
2/22/2025 10:06	64801	MONE_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/22/2025 10:06	52404	GRPA_T2	3	0	-3	0.47	0	-0.47	0	0	0	0	0	0	0	0
2/22/2025 10:07	45002	LIME_2	1	1	0	3.8	4.7	0.9	0	0	0	0	0	0	0	0
2/22/2025 10:07	45003	LIME_2	2	1	-1	1.75	3.4	1.65	0.36	0.37	0	0	0	0	0	0
2/22/2025 10:07	45001	LIME_2	7	14	7	0.14	0.2	0.06	0	0	0	0	0	0	0	0
2/22/2025 10:08	64801	MONE_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/22/2025 10:08	64802	MONE_T2	5	1	-4	0.24	0.7	0.46	0	0	0	0	0	0	0	0
2/22/2025 10:09	45001	LIME_2	7	14	7	0.14	0.2	0.06	0	0	0	0	0	0	0	0
2/22/2025 10:09	52403	GRPA_T2	20	22	2	0.71	0.77	0.06	0	0	0	0	0	0	0	0
2/22/2025 10:09	45002	LIME_2	1	1	0	3.8	4.7	0.9	0	0	0	0	0	0	0	0
2/22/2025 10:09	52404	GRPA_T2	3	0	-3	0.47	0	-0.47	-0.34	-0.44	0	0	0	0	0	0
2/22/2025 10:09	52402	GRPA_T2	54	60	6	0.84	0.6	-0.24	0	0	0	0	0	0	0	0
2/22/2025 10:09	45003	LIME_2	2	1	-1	1.75	3.4	1.65	1.08	1.11	0	0	0	0	0	0
2/22/2025 10:10	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/22/2025 10:10	15204	SFAR_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
2/22/2025 10:10	15203	SFAR_T2	3	3	0	0.27	0.47	0.2	0	0	0	0	0	0	0	0
2/22/2025 10:10	13303	ORVI_T1	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
2/22/2025 10:10	55002	NEWP_T1	4	7	3	1.38	0.89	-0.49	-0.2	-0.18	0	0	0	0	0	0
2/22/2025 10:12	16101	BING_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
2/22/2025 10:12	16102	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/22/2025 10:12	16103	BING_T2	1	0	-1	0.4	0	-0.4	-1.56	-1.55	1	1	0	900	900	0
2/22/2025 10:12	15203	SFAR_T2	3	3	0	0.27	0.47	0.2	-1.25	-1.23	0	0	0	0	0	0
2/22/2025 10:14	15203	SFAR_T2	3	3	0	0.27	0.47	0.2	-1.25	-1.23	0	0	0	0	0	0
2/22/2025 10:14	45501	DERR_T2	1	1	0	0.9	0.8	-0.1	-1	-0.94	4	4	0	3600	3600	0
2/22/2025 10:16	16101	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/22/2025 10:16	16103	BING_T2	0	1	1	0	0.1	0.1	-1.56	-1.55	1	1	0	900	900	0
2/22/2025 10:16	10903	COOP_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/22/2025 10:16	10901	COOP_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/22/2025 10:16	63801	HEMP_T1	0	1	1	0	0.2	0.2	-0.3	-0.12	0	0	0	0	0	0
2/22/2025 10:16	14403	SSLA_T1	9	10	1	0.6	0.83	0.23	0.77	0.78	0	0	0	0	0	0
2/22/2025 10:16	14402	SSLA_T1	0	10	10	0	0.7	0.7	0	0	0	0	0	0	0	0
2/22/2025 10:16	63804	HEMP_T1	1	1	0	6.6	6.7	0.1	0	0	0	0	0	0	0	0
2/22/2025 10:18	16103	BING_T2	0	1	1	0	0.1	0.1	-1.56	-1.55	1	1	0	900	900	0
2/22/2025 10:18	45501	DERR_T2	1	2	1	0.7	0.5	-0.2	-0.5	-0.47	2	2	0	1800	1800	0
2/22/2025 10:18	16101	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/22/2025 10:25	67901	WNHO_T2	2	2	0	0.1	0.3	0.2	-0.13	-0.15	0	0	0	0	0	0
2/22/2025 10:25	44601	SALE_T2	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
2/22/2025 10:25	52503	PROG_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/22/2025 10:26	44601	SALE_T2	0	0	0	0	0	0	-0.07	-0.08	0	0	0	0	0	0
2/22/2025 10:26	40201	BEGA_T2	1	2	1	2.2	0.4	-1.8	0	0	0	0	0	0	0	0
2/22/2025 10:26	42601	TUSC_T1	3	9	6	0.27	0.32	0.05	-1.3	-1.26	2	2	0	1800	1800	0
2/22/2025 10:28	45501	DERR_T2	1	2	1	0.7	0.5	-0.2	-0.47	-0.47	2	2	0	1800	1800	0
2/22/2025 10:30	40201	BEGA_T2	1	3	2	0.8	0.27	-0.53	0	0	0	0	0	0	0	0
2/22/2025 10:30	41301	FISH_T1	3	4	1	1.47	1.73	0.26	-0.8	-0.8	0	0	0	0	0	0
2/22/2025 10:30	45501	DERR_T2	1	4	3	0.8	0.48	-0.32	-0.47	-0.47	2	2	0	1800	1800	0
2/22/2025 10:31	41301	FISH_T1	3	4	1	1.47	1.73	0.26	-0.8	-0.8	0	0	0	0	0	0
2/22/2025 10:31	61302	EARL_T1	1	1	0	0.1	0.4	0.3	0.17	0.12	1	1	0	1200	1200	0
2/22/2025 10:32	41301	FISH_T1	3	4	1	1.47	1.73	0.26	-0.8	-0.8	0	0	0	0	0	0
2/22/2025 10:32	41801	GOCI_T2	3	1	-2	0.47	0.2	-0.27	0	0	0	0	0	0	0	0
2/22/2025 10:32	45501	DERR_T2	1	4	3	0.8	0.48	-0.32	-0.47	-0.47	2	2	0	1800	1800	0
2/22/2025 10:34	41301	FISH_T1	3	4	1	1.47	1.73	0.26	0	0	0	0	0	0	0	0
2/22/2025 10:35	52402	GRPA_T2	51	40	-11	0.68	0.53	-0.15	0	0	0	0	0	0	0	0
2/22/2025 10:35	52403	GRPA_T2	16	24	8	0.82	0.67	-0.15	-1	-1.03	0	0	0	0	0	0
2/22/2025 10:36	64203	KINZ_T1	0	1	1	0	0.2	0.2	-0.48	-0.53	2	2	0	1800	1800	0
2/22/2025 10:36	46801	HEPB_T2	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
2/22/2025 10:36	64204	KINZ_T1	37	67	30	0.52	0.84	0.32	0	0	0	0	0	0	0	0
2/22/2025 10:36	46803	HEPB_T2	1	4	3	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/22/2025 10:38	46803	HEPB_T2	1	4	3	0.2	0.3	0.1	0.54	0.54	0	0	0	0	0	0
2/22/2025 10:38	46801	HEPB_T2	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
2/22/2025 10:39	64802	MONE_T2	1	3	2	0.7	0.23	-0.47	0	0	0	0	0	0	0	0
2/22/2025 10:39	64801	MONE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/22/2025 10:40	65602	QVIL_T2	9	35	26	0.29	0.36	0.07	0.14	0.1	0	0	0	0	0	0
2/22/2025 10:40	65603	QVIL_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
2/22/2025 10:40	65604	QVIL_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/22/2025 10:40	65601	QVIL_T2	6	29	23	0.23	0.23	0	0	0	0	0	0	0	0	0
2/22/2025 10:41	60201	ATGL_T2	71	147	76	0.26	0.42	0.16	-0.08	0.03	0	0	0	0	0	0
2/22/2025 10:42	65603	QVIL_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
2/22/2025 10:42	65601	QVIL_T2	6	29	23	0.23	0.23	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/22/2025 10:42	65602	QVIL_T2	9	35	26	0.29	0.36	0.07	0	0	0	0	0	0	0	0
2/22/2025 10:42	65604	QVIL_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/22/2025 10:43	60201	ATGL_T2	71	147	76	0.26	0.42	0.16	0	0	0	0	0	0	0	0
2/22/2025 10:44	65603	QVIL_T2	0	5	5	0	0.1	0.1	0.13	0.12	0	0	0	0	0	0
2/22/2025 10:44	10801	CHHI_T1	1	1	0	1.1	1	-0.1	-2.11	-1.5	3	2	-1	2100	1500	-600
2/22/2025 10:44	65601	QVIL_T2	6	29	23	0.23	0.23	0	0	0	0	0	0	0	0	0
2/22/2025 10:44	65604	QVIL_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/22/2025 10:44	65602	QVIL_T2	9	35	26	0.29	0.36	0.07	0	0	0	0	0	0	0	0
2/22/2025 10:45	60201	ATGL_T2	145	169	24	0.42	0.41	-0.01	-0.08	0.03	0	0	0	0	0	0
2/22/2025 10:46	10801	CHHI_T1	1	1	0	1	0.2	-0.8	-2.11	-1.5	3	2	-1	2100	1500	-600
2/22/2025 10:47	17802	GILB_T1	2	1	-1	0.6	1.3	0.7	0.09	0.09	0	0	0	0	0	0
2/22/2025 10:48	52403	GRPA_T2	21	24	3	0.71	0.67	-0.04	0	0	0	0	0	0	0	0
2/22/2025 10:48	52402	GRPA_T2	39	34	-5	0.68	0.43	-0.25	0	0	0	0	0	0	0	0
2/22/2025 10:52	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 10:52	53802	MBRG_T2	0	0	0	0	0	0	0.9	0.81	0	0	0	0	0	0
2/22/2025 10:54	65702	RVIL_T2	0	0	0	0	0	0	-1.38	-1.36	1	1	0	600	600	0
2/22/2025 10:54	25503	MADI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/22/2025 10:54	25501	MADI_T1	2	0	-2	0.8	0	-0.8	0	0	0	0	0	0	0	0
2/22/2025 10:55	52403	GRPA_T2	21	24	3	0.71	0.67	-0.04	0	0	0	0	0	0	0	0
2/22/2025 10:55	52402	GRPA_T2	39	34	-5	0.68	0.43	-0.25	0	0	0	0	0	0	0	0
2/22/2025 10:56	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 10:57	44301	BEAV_T2	3	5	2	0.43	0.44	0.01	-0.58	-0.59	1	1	0	600	600	0
2/22/2025 10:57	44302	BEAV_T2	2	6	4	0.35	0.47	0.12	0	0	0	0	0	0	0	0
2/22/2025 10:57	53801	MBRG_T2	0	0	0	0	0	0	-1.54	-1.53	0	0	0	0	0	0
2/22/2025 10:58	46004	BERW_T2	3	2	-1	0.93	0	-0.93	-0.7	-0.72	0	0	0	0	0	0
2/22/2025 10:59	55105	WERT_T1	0	0	0	0	0	0	-0.99	-1.04	2	2	0	1800	1800	0
2/22/2025 11:00	46004	BERW_T2	1	2	1	1.1	0	-1.1	-0.7	-0.72	0	0	0	0	0	0
2/22/2025 11:00	44302	BEAV_T2	3	6	3	0.53	0.7	0.17	0	0	0	0	0	0	0	0
2/22/2025 11:00	44301	BEAV_T2	2	7	5	0.65	0.39	-0.26	-0.58	-0.59	1	1	0	600	600	0
2/22/2025 11:02	10801	CHHI_T1	1	1	0	0.2	0.2	0	-1.5	-1.48	2	2	0	1500	1500	0
2/22/2025 11:02	10805	CHHI_T2	5	1	-4	1.86	8.3	6.44	-1.11	-1.15	1	1	0	600	600	0
2/22/2025 11:07	15601	NSTR_T2	4	2	-2	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
2/22/2025 11:09	64101	REFR_T1	2	3	1	0.5	0.5	0	0.27	0.29	0	0	0	0	0	0
2/22/2025 11:10	15601	NSTR_T2	4	2	-2	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
2/22/2025 11:10	57205	ROSS_T1	1	1	0	1.3	1.5	0.2	0.22	0.21	0	0	0	0	0	0
2/22/2025 11:10	57203	ROSS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 11:10	66505	SMAN_T2	0	0	0	0	0	0	-0.19	-0.37	1	1	0	900	900	0
2/22/2025 11:10	57403	SPAN_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/22/2025 11:10	57401	SPAN_T1	0	0	0	0	0	0	-0.99	-1.02	1	1	0	600	600	0
2/22/2025 11:10	66504	SMAN_T2	1	2	1	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
2/22/2025 11:11	57401	SPAN_T1	0	0	0	0	0	0	-2.97	-3.06	3	3	0	1800	1800	0
2/22/2025 11:11	57403	SPAN_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/22/2025 11:11	15601	NSTR_T2	4	2	-2	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
2/22/2025 11:12	60301	TWVA_T2	0	0	0	0	0	0	-2.97	-3.02	2	2	0	1800	1800	0
2/22/2025 11:12	15601	NSTR_T2	4	2	-2	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
2/22/2025 11:14	61001	DONV_T1	1	1	0	0.8	0.6	-0.2	-0.02	-0.07	0	0	0	0	0	0
2/22/2025 11:14	57403	SPAN_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/22/2025 11:14	10805	CHHI_T2	5	1	-4	1.86	8.3	6.44	-1.15	-1.12	1	1	0	600	600	0
2/22/2025 11:16	54504	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/22/2025 11:16	54506	ENOL_T2	0	0	0	0	0	0	-1.45	-1.47	1	0	-1	600	0	-600
2/22/2025 11:16	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/22/2025 11:19	57401	SPAN_T1	0	0	0	0	0	0	-0.99	-1.02	1	1	0	600	600	0
2/22/2025 11:19	57403	SPAN_T1	1	6	5	0.3	0.37	0.07	0	0	0	0	0	0	0	0
2/22/2025 11:20	45003	LIME_2	2	2	0	2.2	2.2	0	0.32	0.27	0	0	0	0	0	0
2/22/2025 11:20	45002	LIME_2	1	1	0	5	5	0	0.64	0.64	0	0	0	0	0	0
2/22/2025 11:20	17401	FOHI_T1	0	0	0	0	0	0	-0.91	-0.91	0	0	0	0	0	0
2/22/2025 11:20	45001	LIME_2	13	15	2	0.36	0.42	0.06	0	0	0	0	0	0	0	0
2/22/2025 11:21	63602	LETO_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/22/2025 11:21	63601	LETO_T1	7	5	-2	0.33	0.52	0.19	-0.09	-0.12	1	1	0	900	900	0
2/22/2025 11:24	65501	MOJO_T1	0	0	0	0	0	0	-1.25	-1.26	1	1	0	900	900	0
2/22/2025 11:25	52504	PROG_T1	2	14	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
2/22/2025 11:25	52501	PROG_T1	195	177	-18	0.16	0.17	0.01	0	0	0	0	0	0	0	0
2/22/2025 11:26	52504	PROG_T1	2	14	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
2/22/2025 11:26	52501	PROG_T1	195	177	-18	0.16	0.17	0.01	-0.44	-0.47	0	0	0	0	0	0
2/22/2025 11:27	52501	PROG_T1	195	177	-18	0.16	0.17	0.01	-0.89	-0.93	0	0	0	0	0	0
2/22/2025 11:27	52504	PROG_T1	2	14	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
2/22/2025 11:28	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 11:28	52504	PROG_T1	2	14	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
2/22/2025 11:28	52501	PROG_T1	195	177	-18	0.16	0.17	0.01	-0.44	-0.47	0	0	0	0	0	0
2/22/2025 11:29	52501	PROG_T1	195	177	-18	0.16	0.17	0.01	-0.44	-0.47	0	0	0	0	0	0
2/22/2025 11:29	52504	PROG_T1	2	14	12	0.1	0.14	0.04	0	0	0	0	0	0	0	0
2/22/2025 11:30	16801	WAGN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/22/2025 11:30	10602	BLGL_T2	3	3	0	3.27	3.67	0.4	0.32	0.27	0	0	0	0	0	0
2/22/2025 11:30	41602	CLEV_T1	1	6	5	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
2/22/2025 11:30	41601	CLEV_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/22/2025 11:30	57403	SPAN_T1	1	8	7	0.5	0.39	-0.11	0	0	0	0	0	0	0	0
2/22/2025 11:30	57401	SPAN_T1	0	1	1	0	0.1	0.1	-1.02	-1.06	1	1	0	600	600	0
2/22/2025 11:31	57403	SPAN_T1	1	8	7	0.5	0.39	-0.11	0	0	0	0	0	0	0	0
2/22/2025 11:31	45501	DERR_T2	9	12	3	0.48	0.38	-0.1	-0.54	-0.57	2	2	0	1800	1800	0
2/22/2025 11:31	29401	BELT_T1	6	4	-2	0.17	0.18	0.01	0	0	0	0	0	0	0	0
2/22/2025 11:31	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/22/2025 11:31	41601	CLEV_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/22/2025 11:31	57401	SPAN_T1	0	1	1	0	0.1	0.1	-1.02	-1.06	1	1	0	600	600	0
2/22/2025 11:31	41602	CLEV_T1	1	6	5	0.5	0.1	-0.4	0	0	1	1	0	600	600	0
2/22/2025 11:31	29402	BELT_T1	4	5	1	2.35	2.2	-0.15	0	0	0	0	0	0	0	0
2/22/2025 11:32	45502	DERR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/22/2025 11:32	45501	DERR_T2	9	12	3	0.48	0.38	-0.1	-1.62	-1.7	6	6	0	5400	5400	0
2/22/2025 11:33	41601	CLEV_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/22/2025 11:33	46802	HEPB_T1	2	2	0	0.9	0.95	0.05	-1.26	-1.3	0	0	0	0	0	0
2/22/2025 11:33	41602	CLEV_T1	1	6	5	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
2/22/2025 11:33	41801	GOCI_T2	3	4	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
2/22/2025 11:34	41801	GOCI_T2	3	4	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
2/22/2025 11:34	41602	CLEV_T1	1	6	5	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
2/22/2025 11:34	41601	CLEV_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/22/2025 11:35	46803	HEPB_T2	5	5	0	0.3	0.38	0.08	0	0	0	0	0	0	0	0
2/22/2025 11:35	46801	HEPB_T2	2	2	0	0.6	0.8	0.2	0.63	0.61	0	0	0	0	0	0
2/22/2025 11:38	13103	NHAM_T2	0	3	3	0	0	0	-1.63	-1.62	1	1	0	600	600	0
2/22/2025 11:38	13105	NHAM_T2	17	20	3	0.85	0.4	-0.45	0	0	0	0	0	0	0	0
2/22/2025 11:40	60504	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/22/2025 11:40	60502	NMAN_T2	1	3	2	0.2	0.43	0.23	0	0	0	0	0	0	0	0
2/22/2025 11:40	60501	NMAN_T2	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/22/2025 11:44	52503	PROG_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/22/2025 11:44	52502	PROG_T2	0	0	0	0	0	0	0.42	0.49	0	0	0	0	0	0
2/22/2025 11:47	45501	DERR_T2	11	128	117	0.4	0.3	-0.1	-0.57	-0.54	2	2	0	1800	1800	0
2/22/2025 11:48	53901	HALI_T2	4	5	1	0.38	0.36	-0.02	-1.33	-1.31	0	0	0	0	0	0
2/22/2025 11:48	53903	HALI_T2	5	4	-1	0.52	0.8	0.28	0	0	0	0	0	0	0	0
2/22/2025 11:48	53902	HALI_T2	3	2	-1	2.13	3.2	1.07	0	0	0	0	0	0	0	0
2/22/2025 11:49	45501	DERR_T2	11	128	117	0.4	0.3	-0.1	-0.57	-0.54	2	2	0	1800	1800	0
2/22/2025 11:49	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-1.03	1	1	0	600	600	0
2/22/2025 11:49	54505	ENOL_T2	1	1	0	0.7	0.5	-0.2	-0.66	-0.65	1	1	0	600	600	0
2/22/2025 11:51	53902	HALI_T2	3	2	-1	2.13	3.2	1.07	0	0	0	0	0	0	0	0
2/22/2025 11:51	53903	HALI_T2	5	4	-1	0.52	0.8	0.28	-0.18	-0.17	0	0	0	0	0	0
2/22/2025 11:51	61303	EARL_T1	0	1	1	0	0.2	0.2	-0.05	-0.01	0	0	0	0	0	0
2/22/2025 11:51	61302	EARL_T1	5	4	-1	0.26	0.43	0.17	0	0	0	0	0	0	0	0
2/22/2025 11:51	61304	EARL_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/22/2025 11:51	45501	DERR_T2	11	128	117	0.4	0.3	-0.1	-0.54	-0.55	2	2	0	1800	1800	0
2/22/2025 11:51	53901	HALI_T2	4	5	1	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
2/22/2025 11:53	64101	REFR_T1	2	5	3	0.75	0.5	-0.25	0.28	0.25	0	0	0	0	0	0
2/22/2025 11:58	65205	PRIN_T1	1	2	1	1.1	1	-0.1	0	0	0	0	0	0	0	0
2/22/2025 11:59	41602	CLEV_T1	2	5	3	0.3	0.47	0.17	0	0	0	0	0	0	0	0
2/22/2025 11:59	44801	EDAN_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 11:59	41601	CLEV_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/22/2025 12:00	41602	CLEV_T1	5	3	-2	0.98	0	-0.98	0	0	0	0	0	0	0	0
2/22/2025 12:00	41601	CLEV_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
2/22/2025 12:01	45501	DERR_T2	2	130	128	0.15	2.38	2.23	-0.54	-0.55	2	2	0	1800	1800	0
2/22/2025 12:01	41801	GOCI_T2	4	6	2	0.13	0.27	0.14	0	0	0	0	0	0	0	0
2/22/2025 12:02	61803	EELI_T2	0	0	0	0	0	0	0.82	0.83	0	0	0	0	0	0
2/22/2025 12:02	41801	GOCI_T2	4	6	2	0.13	0.27	0.14	0	0	0	0	0	0	0	0
2/22/2025 12:02	61801	EELI_T2	1	4	3	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
2/22/2025 12:03	61701	ELIZ_T1	2	2	0	3.6	6.1	2.5	-0.1	-0.23	0	0	0	0	0	0
2/22/2025 12:03	61703	ELIZ_T1	8	5	-3	0.31	0.38	0.07	0	0	0	0	0	0	0	0
2/22/2025 12:05	17802	GILB_T1	2	1	-1	1.3	0.5	-0.8	0.04	0.14	0	0	0	0	0	0
2/22/2025 12:05	41801	GOCI_T2	4	6	2	0.13	0.27	0.14	0	0	0	0	0	0	0	0
2/22/2025 12:07	20601	GRWO_T2	0	0	0	0	0	0	-0.16	-0.21	0	0	0	0	0	0
2/22/2025 12:07	52402	GRPA_T2	16	35	19	0.39	0.46	0.07	0	0	0	0	0	0	0	0
2/22/2025 12:07	52403	GRPA_T2	18	21	3	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
2/22/2025 12:07	20603	GRWO_T2	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/22/2025 12:07	52401	GRPA_T2	2	0	-2	0.15	0	-0.15	-0.67	-0.67	0	0	0	0	0	0
2/22/2025 12:13	25801	SUTR_T2	4	4	0	4.85	9.55	4.7	0.06	0.04	0	0	0	0	0	0
2/22/2025 12:18	17802	GILB_T1	0	3	3	0	0.43	0.43	0.14	0.18	0	0	0	0	0	0
2/22/2025 12:19	17802	GILB_T1	0	3	3	0	0.43	0.43	0.14	0.18	0	0	0	0	0	0
2/22/2025 12:20	64402	LAND_T2	3	3	0	0.63	0.87	0.24	-0.38	-0.39	1	1	0	600	600	0
2/22/2025 12:21	28403	HART_T2	0	0	0	0	0	0	-0.83	-0.82	1	1	0	900	900	0
2/22/2025 12:22	65503	MOJO_T2	0	0	0	0	0	0	-1.08	-1.1	1	1	0	900	900	0
2/22/2025 12:24	12605	MACA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/22/2025 12:24	12602	MACA_T1	31	63	32	0.2	0.26	0.06	0	0	0	0	0	0	0	0
2/22/2025 12:24	58101	NEKI_T1	2	2	0	1.15	1.05	-0.1	0	0	0	0	0	0	0	0
2/22/2025 12:24	12606	MACA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/22/2025 12:24	58102	NEKI_T1	1	1	0	1.2	1	-0.2	-1.17	-1.16	1	1	0	1200	1200	0
2/22/2025 12:24	12603	MACA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/22/2025 12:24	12604	MACA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/22/2025 12:24	12601	MACA_T1	1	1	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
2/22/2025 12:25	65602	QVIL_T2	2	3	1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
2/22/2025 12:25	65503	MOJO_T2	0	0	0	0	0	0	-1.08	-1.1	1	1	0	900	900	0
2/22/2025 12:25	65601	QVIL_T2	2	3	1	0.1	0.1	0	-0.07	-0.07	0	0	0	0	0	0
2/22/2025 12:26	14403	SSLA_T1	4	5	1	0.35	0.38	0.03	0	0	0	0	0	0	0	0
2/22/2025 12:26	65602	QVIL_T2	2	3	1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
2/22/2025 12:26	14401	SSLA_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
2/22/2025 12:26	14402	SSLA_T1	12	4	-8	0.87	0	-0.87	0	0	0	0	0	0	0	0
2/22/2025 12:26	65601	QVIL_T2	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/22/2025 12:26	65603	QVIL_T2	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
2/22/2025 12:28	65207	PRIN_T4	2	3	1	2.1	1.4	-0.7	0	0	0	0	0	0	0	0
2/22/2025 12:28	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/22/2025 12:28	65206	PRIN_T4	1	1	0	3.3	0	-3.3	0	0	0	0	0	0	0	0
2/22/2025 12:30	11904	ETEX_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
2/22/2025 12:30	11901	ETEX_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/22/2025 12:31	41601	CLEV_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
2/22/2025 12:31	41602	CLEV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/22/2025 12:31	61701	ELIZ_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
2/22/2025 12:31	40201	BEGA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/22/2025 12:31	61703	ELIZ_T1	5	8	3	0.38	0.48	0.1	-1.81	-1.92	1	1	0	900	900	0
2/22/2025 12:32	47203	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 12:32	47202	FAXO_T2	0	0	0	0	0	0	-2.26	-2.26	0	0	0	0	0	0
2/22/2025 12:32	61701	ELIZ_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
2/22/2025 12:32	11901	ETEX_T2	1	1	0	0.2	0.2	0	0.28	0.27	0	0	0	0	0	0
2/22/2025 12:32	61703	ELIZ_T1	5	8	3	0.38	0.48	0.1	0	0	0	0	0	0	0	0
2/22/2025 12:32	11904	ETEX_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
2/22/2025 12:33	41602	CLEV_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/22/2025 12:33	41601	CLEV_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
2/22/2025 12:33	61701	ELIZ_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
2/22/2025 12:33	61703	ELIZ_T1	5	8	3	0.38	0.48	0.1	-1.81	-1.92	1	1	0	900	900	0
2/22/2025 12:34	61701	ELIZ_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
2/22/2025 12:34	64203	KINZ_T1	2	2	0	0.45	0.55	0.1	-0.21	-0.26	1	1	0	600	600	0
2/22/2025 12:34	64201	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/22/2025 12:34	64204	KINZ_T1	67	68	1	1.12	1.19	0.07	0	0	0	0	0	0	0	0
2/22/2025 12:34	61703	ELIZ_T1	5	8	3	0.38	0.48	0.1	-1.81	-1.92	1	1	0	900	900	0
2/22/2025 12:35	61701	ELIZ_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
2/22/2025 12:35	61703	ELIZ_T1	5	8	3	0.38	0.48	0.1	-3.62	-3.84	2	2	0	1800	1800	0
2/22/2025 12:36	12601	MACA_T1	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
2/22/2025 12:36	12606	MACA_T1	1	14	13	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/22/2025 12:36	12603	MACA_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/22/2025 12:36	12604	MACA_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/22/2025 12:36	12605	MACA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/22/2025 12:36	12602	MACA_T1	56	52	-4	0.25	0.28	0.03	0	0	0	0	0	0	0	0
2/22/2025 12:43	29401	BELT_T1	38	53	15	0.19	0.23	0.04	0	0	1	1	0	900	900	0
2/22/2025 12:43	29402	BELT_T1	8	13	5	1.51	1.18	-0.33	0	0	0	0	0	0	0	0
2/22/2025 12:43	22002	BOHE_T1	1	9	8	0.1	0.14	0.04	0	0	0	0	0	0	0	0
2/22/2025 12:43	64101	REFR_T1	5	7	2	0.46	0.46	0	0.23	0.24	0	0	0	0	0	0
2/22/2025 12:43	22003	BOHE_T1	4	25	21	0.35	0.21	-0.14	0	0	0	0	0	0	0	0
2/22/2025 12:48	22003	BOHE_T1	7	26	19	0.29	0.21	-0.08	0	0	0	0	0	0	0	0
2/22/2025 12:48	53501	EVIL_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
2/22/2025 12:48	22002	BOHE_T1	9	4	-5	0.12	0.18	0.06	0	0	0	0	0	0	0	0
2/22/2025 12:48	53502	EVIL_T2	9	0	-9	0.5	0	-0.5	0.73	0.72	0	0	0	0	0	0
2/22/2025 12:49	54505	ENOL_T2	1	1	0	0.3	0.2	-0.1	-0.65	-0.65	1	1	0	600	600	0
2/22/2025 12:51	64403	LAND_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/22/2025 12:51	64401	LAND_T1	2	1	-1	0.25	0.4	0.15	-1.08	-1.12	1	1	0	600	600	0
2/22/2025 12:52	66303	MCGO_T2	2	1	-1	0.5	1.1	0.6	0	0	0	0	0	0	0	0
2/22/2025 12:52	66302	MCGO_T2	0	1	1	0	0.1	0.1	-0.87	-0.92	0	0	0	0	0	0
2/22/2025 12:53	66303	MCGO_T2	2	1	-1	0.5	1.1	0.6	0	0	0	0	0	0	0	0
2/22/2025 12:53	64403	LAND_T1	0	1	1	0	0.1	0.1	-1.74	-1.72	1	1	0	900	900	0
2/22/2025 12:53	66302	MCGO_T2	0	1	1	0	0.1	0.1	-0.87	-0.92	0	0	0	0	0	0
2/22/2025 12:53	64401	LAND_T1	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
2/22/2025 12:54	64401	LAND_T1	2	1	-1	0.25	0.4	0.15	-1.08	-1.12	1	1	0	600	600	0
2/22/2025 12:54	66301	MCGO_T2	0	0	0	0	0	0	-1.2	-1.21	0	0	0	0	0	0
2/22/2025 12:54	64403	LAND_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/22/2025 12:54	66302	MCGO_T2	0	1	1	0	0.1	0.1	-1.74	-1.85	0	0	0	0	0	0
2/22/2025 12:54	66303	MCGO_T2	2	1	-1	0.5	1.1	0.6	0	0	0	0	0	0	0	0
2/22/2025 12:56	44201	POIN_T1	166	20	-146	0.42	0.13	-0.29	-3.2	-3.14	2	2	0	2400	2400	0
2/22/2025 12:57	65602	QVIL_T2	3	6	3	0.33	0.35	0.02	0	0	0	0	0	0	0	0
2/22/2025 12:57	65604	QVIL_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
2/22/2025 12:57	65601	QVIL_T2	2	3	1	0.1	0.17	0.07	0	0	0	0	0	0	0	0
2/22/2025 12:59	42701	AUGU_T1	7	4	-3	0.43	0.7	0.27	0	0	2	2	0	1800	1800	0
2/22/2025 12:59	40505	CRES_T1	0	1	1	0	0.1	0.1	0.33	0.3	0	0	0	0	0	0
2/22/2025 12:59	40504	CRES_T1	1	10	9	1	0.22	-0.78	0	0	0	0	0	0	0	0
2/22/2025 13:00	40504	CRES_T1	10	1	-9	0.22	1	0.78	0	0	0	0	0	0	0	0
2/22/2025 13:00	46002	BERW_T2	0	0	0	0	0	0	-1.36	-1.37	1	1	0	900	900	0
2/22/2025 13:00	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 13:00	40505	CRES_T1	1	0	-1	0.1	0	-0.1	0.66	0.6	0	0	0	0	0	0
2/22/2025 13:01	42701	AUGU_T1	4	5	1	0.7	0.44	-0.26	0	0	0	0	0	0	0	0
2/22/2025 13:01	40504	CRES_T1	10	1	-9	0.22	1	0.78	0	0	0	0	0	0	0	0
2/22/2025 13:01	40505	CRES_T1	1	0	-1	0.1	0	-0.1	0.66	0.6	0	0	0	0	0	0
2/22/2025 13:01	46004	BERW_T2	0	1	1	0	0	0	-0.75	-0.78	0	0	0	0	0	0
2/22/2025 13:03	53502	EVIL_T2	0	0	0	0	0	0	0.72	0.67	0	0	0	0	0	0
2/22/2025 13:03	53501	EVIL_T2	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
2/22/2025 13:03	40504	CRES_T1	10	1	-9	0.22	1	0.78	0	0	0	0	0	0	0	0
2/22/2025 13:03	40505	CRES_T1	1	0	-1	0.1	0	-0.1	0.33	0.3	0	0	0	0	0	0
2/22/2025 13:04	40505	CRES_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/22/2025 13:04	40504	CRES_T1	10	1	-9	0.22	1	0.78	-1.92	-1.93	0	0	0	0	0	0
2/22/2025 13:06	23502	GEOR_T1	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
2/22/2025 13:06	23503	GEOR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 13:08	64202	KINZ_T1	0	0	0	0	0	0	0.71	0.74	0	0	0	0	0	0
2/22/2025 13:08	64203	KINZ_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/22/2025 13:08	64201	KINZ_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/22/2025 13:08	64204	KINZ_T1	68	69	1	1.1	1.66	0.56	0	0	0	0	0	0	0	0
2/22/2025 13:09	64101	REFR_T1	5	5	0	0.5	0.78	0.28	0.2	0.2	0	0	0	0	0	0
2/22/2025 13:10	64101	REFR_T1	5	5	0	0.5	0.78	0.28	0	0	0	0	0	0	0	0
2/22/2025 13:11	57401	SPAN_T1	2	5	3	0.25	0.44	0.19	-1.13	-1.14	1	1	0	600	600	0
2/22/2025 13:11	64101	REFR_T1	5	5	0	0.5	0.78	0.28	0.2	0.2	0	0	0	0	0	0
2/22/2025 13:11	57403	SPAN_T1	19	33	14	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
2/22/2025 13:11	48301	ORWI_T1	6	6	0	2.22	2.17	-0.05	-1.05	-1.07	1	1	0	900	900	0
2/22/2025 13:13	41601	CLEV_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
2/22/2025 13:13	20403	ASHF_T2	1	4	3	0.1	0.4	0.3	0.3	0.23	0	0	0	0	0	0
2/22/2025 13:13	41602	CLEV_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
2/22/2025 13:13	20401	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/22/2025 13:14	41602	CLEV_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
2/22/2025 13:14	41601	CLEV_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
2/22/2025 13:15	67201	TEHI_T1	4	4	0	0.55	0.38	-0.17	0	0	0	0	0	0	0	0
2/22/2025 13:15	67203	TEHI_T1	1	1	0	0.5	0.2	-0.3	1.15	1.29	1	1	0	900	900	0
2/22/2025 13:17	20401	ASHF_T2	0	1	1	0	0.2	0.2	-0.33	-0.35	1	1	0	600	600	0
2/22/2025 13:17	20403	ASHF_T2	0	5	5	0	0.42	0.42	0.3	0.23	0	0	0	0	0	0
2/22/2025 13:18	41202	KENM_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/22/2025 13:18	41601	CLEV_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
2/22/2025 13:18	41205	KENM_T2	0	0	0	0	0	0	-0.71	-0.74	1	1	0	600	600	0
2/22/2025 13:18	41602	CLEV_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
2/22/2025 13:20	67203	TEHI_T1	1	1	0	0.5	0.2	-0.3	1.15	1.29	1	1	0	900	900	0
2/22/2025 13:20	67201	TEHI_T1	4	4	0	0.55	0.38	-0.17	0	0	0	0	0	0	0	0
2/22/2025 13:24	44601	SALE_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
2/22/2025 13:31	41801	GOCI_T2	7	10	3	0.27	0.32	0.05	0	0	0	0	0	0	0	0
2/22/2025 13:32	46004	BERW_T2	0	2	2	0	0.2	0.2	-0.72	-0.77	0	0	0	0	0	0
2/22/2025 13:33	54505	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/22/2025 13:33	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-1.03	1	1	0	600	600	0
2/22/2025 13:35	22602	KIMB_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/22/2025 13:35	22601	KIMB_T1	2	2	0	0.75	0.75	0	0.29	0.28	0	0	0	0	0	0
2/22/2025 13:36	63801	HEMP_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/22/2025 13:36	63804	HEMP_T1	1	1	0	6.4	6.3	-0.1	0.52	0.52	0	0	0	0	0	0
2/22/2025 13:40	65602	QVIL_T2	8	10	2	0.25	0.28	0.03	0	0	0	0	0	0	0	0
2/22/2025 13:40	65601	QVIL_T2	3	2	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/22/2025 13:40	65603	QVIL_T2	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
2/22/2025 13:44	41601	CLEV_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
2/22/2025 13:44	41602	CLEV_T1	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
2/22/2025 13:45	41601	CLEV_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/22/2025 13:45	41602	CLEV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/22/2025 13:45	42701	AUGU_T1	4	5	1	0.55	0.5	-0.05	0	0	2	2	0	1800	1800	0
2/22/2025 13:46	41601	CLEV_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/22/2025 13:46	67402	WAKE_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
2/22/2025 13:46	41602	CLEV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/22/2025 13:48	47203	FAXO_T2	0	0	0	0	0	0	-1.08	-1.08	0	0	0	0	0	0
2/22/2025 13:49	17802	GILB_T1	4	3	-1	0.45	0.83	0.38	0.23	0.25	0	0	0	0	0	0
2/22/2025 13:50	65502	MOJO_T2	0	0	0	0	0	0	-1.06	-1.03	0	0	0	0	0	0
2/22/2025 13:52	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 13:54	64101	REFR_T1	3	3	0	1.07	0.83	-0.24	0.15	0.16	0	0	0	0	0	0
2/22/2025 13:55	64101	REFR_T1	3	3	0	1.07	0.83	-0.24	0.3	0.32	0	0	0	0	0	0
2/22/2025 13:56	64101	REFR_T1	3	3	0	1.07	0.83	-0.24	0.15	0.16	0	0	0	0	0	0
2/22/2025 13:56	59002	MIFF_T1	5	3	-2	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
2/22/2025 13:56	59003	MIFF_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
2/22/2025 13:57	64101	REFR_T1	3	3	0	1.07	0.83	-0.24	0.45	0.48	0	0	0	0	0	0
2/22/2025 13:58	64101	REFR_T1	3	3	0	1.07	0.83	-0.24	0.3	0.32	0	0	0	0	0	0
2/22/2025 13:59	60301	TWVA_T2	0	0	0	0	0	0	-6.26	-6.28	4	4	0	3600	3600	0
2/22/2025 14:00	41601	CLEV_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/22/2025 14:00	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 14:02	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 14:02	41601	CLEV_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/22/2025 14:09	58101	NEKI_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
2/22/2025 14:09	58102	NEKI_T1	1	1	0	1.2	1.2	0	-1.22	-1.2	1	1	0	1200	1200	0
2/22/2025 14:13	44202	POIN_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
2/22/2025 14:13	44203	POIN_T2	0	0	0	0	0	0	0.18	0.13	1	1	0	900	900	0
2/22/2025 14:14	44201	POIN_T1	28	73	45	0.14	0.2	0.06	-1.61	-1.62	1	1	0	1200	1200	0
2/22/2025 14:16	45501	DERR_T2	4	11	7	0.28	0.26	-0.02	-0.54	-0.59	2	2	0	1800	1800	0
2/22/2025 14:18	45501	DERR_T2	4	11	7	0.28	0.26	-0.02	-0.54	-0.59	2	2	0	1800	1800	0
2/22/2025 14:18	10801	CHHI_T1	5	7	2	0.28	0.43	0.15	-1.6	-1.64	2	2	0	1500	1500	0
2/22/2025 14:19	45501	DERR_T2	4	11	7	0.28	0.26	-0.02	-1.08	-1.18	4	4	0	3600	3600	0
2/22/2025 14:22	45702	LIND_T2	2	0	-2	0.2	0	-0.2	-0.52	-0.51	0	0	0	0	0	0
2/22/2025 14:23	60502	NMAN_T2	0	0	0	0	0	0	-0.66	-0.66	0	0	0	0	0	0
2/22/2025 14:23	40601	PIGR_T1	2	6	4	0.45	0.27	-0.18	0	0	0	0	0	0	0	0
2/22/2025 14:24	40602	PIGR_T1	0	0	0	0	0	0	0.48	-0.1	0	0	0	0	0	0
2/22/2025 14:24	40601	PIGR_T1	2	6	4	0.45	0.27	-0.18	0	0	0	0	0	0	0	0
2/22/2025 14:25	40601	PIGR_T1	2	6	4	0.45	0.27	-0.18	0	0	0	0	0	0	0	0
2/22/2025 14:26	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 14:27	40601	PIGR_T1	2	6	4	0.45	0.27	-0.18	-0.18	-0.13	0	0	0	0	0	0
2/22/2025 14:28	40601	PIGR_T1	2	6	4	0.45	0.27	-0.18	0	0	0	0	0	0	0	0
2/22/2025 14:29	40601	PIGR_T1	2	6	4	0.45	0.27	-0.18	-0.18	-0.13	0	0	0	0	0	0
2/22/2025 14:29	42503	ALTA_T2	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
2/22/2025 14:29	42501	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/22/2025 14:30	44801	EDAN_T2	1	0	-1	0.2	0	-0.2	-0.88	-0.89	0	0	0	0	0	0
2/22/2025 14:30	10801	CHHI_T1	7	6	-1	0.43	0.38	-0.05	-1.64	-1.62	2	2	0	1500	1500	0
2/22/2025 14:31	44801	EDAN_T2	1	0	-1	0.2	0	-0.2	-0.44	-0.45	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/22/2025 14:40	64801	MONE_T2	0	1	1	0	0	0	83.96	83.96	0	0	0	0	0	0
2/22/2025 14:40	64802	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/22/2025 15:00	10805	CHHI_T2	1	1	0	8.3	8.2	-0.1	-1.24	-1.19	1	1	0	600	600	0
2/22/2025 15:02	10801	CHHI_T1	5	0	-5	0.18	0	-0.18	-1.62	-1.63	2	2	0	1500	1500	0
2/22/2025 15:04	10805	CHHI_T2	1	1	0	8.3	8.2	-0.1	-1.24	-1.19	1	1	0	600	600	0
2/22/2025 15:12	66504	SMAN_T2	1	1	0	0.3	0.1	-0.2	-1.94	-1.32	0	0	0	0	0	0
2/22/2025 15:25	58401	MORO_T1	0	0	0	0	0	0	-1.19	-1.19	1	1	0	600	600	0
2/22/2025 15:27	58401	MORO_T1	0	0	0	0	0	0	-1.19	-1.19	1	1	0	600	600	0
2/22/2025 15:33	45501	DERR_T2	1	0	-1	0.1	0	-0.1	-0.64	-0.65	2	2	0	1800	1800	0
2/22/2025 15:34	45501	DERR_T2	1	0	-1	0.1	0	-0.1	-0.64	-0.65	2	2	0	1800	1800	0
2/22/2025 15:37	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 15:40	65502	MOJO_T2	0	0	0	0	0	0	-1.16	-1.08	0	0	0	0	0	0
2/22/2025 15:44	65803	RTWN_T2	5	0	-5	0.18	0	-0.18	0	0	0	0	0	0	0	0
2/22/2025 15:44	65802	RTWN_T2	0	0	0	0	0	0	-0.19	-0.18	0	0	0	0	0	0
2/22/2025 15:49	61302	EARL_T1	0	0	0	0	0	0	-0.36	-0.28	2	2	0	1800	1800	0
2/22/2025 15:57	61701	ELIZ_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
2/22/2025 15:57	52502	PROG_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
2/22/2025 16:01	52502	PROG_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
2/22/2025 16:09	44202	POIN_T2	0	0	0	0	0	0	-0.99	-0.97	1	1	0	1200	1200	0
2/22/2025 16:09	15603	NSTR_T2	0	0	0	0	0	0	-1.22	-1.2	0	0	0	0	0	0
2/22/2025 16:10	13302	ORVI_T2	6	9	3	0.2	0.16	-0.04	1.22	1.18	0	0	0	0	0	0
2/22/2025 16:12	44202	POIN_T2	0	0	0	0	0	0	-0.99	-0.97	1	1	0	1200	1200	0
2/22/2025 16:16	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 16:16	16102	BING_T2	3	1	-2	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
2/22/2025 16:40	52402	GRPA_T2	13	6	-7	0.4	0.4	0	0	0	0	0	0	0	0	0
2/22/2025 16:40	52403	GRPA_T2	11	3	-8	0.85	0.7	-0.15	-1.17	-1.2	0	0	0	0	0	0
2/22/2025 17:24	29401	BELT_T1	88	51	-37	0.37	0.25	-0.12	0	0	1	1	0	900	900	0
2/22/2025 17:24	29402	BELT_T1	96	8	-88	0.3	1.28	0.98	0	0	0	0	0	0	0	0
2/22/2025 18:03	51802	EBEN_T2	0	0	0	0	0	0	-0.47	-0.39	1	1	0	900	900	0
2/22/2025 19:14	66505	SMAN_T2	3	3	0	0.43	1	0.57	0	0	0	0	0	0	0	0
2/22/2025 19:14	66504	SMAN_T2	1	1	0	2.2	0	-2.2	0	0	0	0	0	0	0	0
2/22/2025 19:23	43202	MVIL_T2	1	0	-1	0.2	0	-0.2	-0.63	-0.6	0	0	0	0	0	0
2/22/2025 19:35	53501	EVIL_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/22/2025 19:42	22601	KIMB_T1	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
2/22/2025 19:44	64204	KINZ_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
2/22/2025 19:44	64202	KINZ_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
2/22/2025 19:44	10602	BLGL_T2	1	1	0	8.5	8.4	-0.1	0.31	0.32	0	0	0	0	0	0
2/22/2025 19:44	64401	LAND_T1	0	0	0	0	0	0	-1.12	-1.12	1	1	0	600	600	0
2/22/2025 19:44	64203	KINZ_T1	0	0	0	0	0	0	-0.45	-0.46	1	1	0	600	600	0
2/22/2025 19:44	60803	BUCK_T1	0	0	0	0	0	0	-0.5	-0.48	1	1	0	600	600	0
2/22/2025 19:45	65803	RTWN_T2	16	22	6	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
2/22/2025 19:45	65207	PRIN_T4	3	3	0	1.87	2.63	0.76	0	0	0	0	0	0	0	0
2/22/2025 19:45	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/22/2025 19:45	65206	PRIN_T4	1	2	1	5.4	1.2	-4.2	0	0	0	0	0	0	0	0
2/22/2025 19:45	66505	SMAN_T2	3	3	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/22/2025 19:45	66504	SMAN_T2	1	0	-1	1.3	0	-1.3	-0.94	-0.95	0	0	0	0	0	0
2/22/2025 19:45	65802	RTWN_T2	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
2/22/2025 19:46	66303	MCGO_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/22/2025 19:46	61001	DONV_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
2/22/2025 19:46	65502	MOJO_T2	0	0	0	0	0	0	-1.18	-1.2	0	0	0	0	0	0
2/22/2025 19:46	60201	ATGL_T2	0	0	0	0	0	0	-0.66	-0.72	0	0	0	0	0	0
2/22/2025 19:46	66301	MCGO_T2	0	0	0	0	0	0	-1.17	-1.16	0	0	0	0	0	0
2/22/2025 19:46	66302	MCGO_T2	0	2	2	0	0	0	-0.87	-0.91	0	0	0	0	0	0
2/22/2025 19:47	60801	BUCK_T1	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
2/22/2025 19:47	65603	QVIL_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
2/22/2025 19:47	61303	EARL_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
2/22/2025 19:48	63804	HEMP_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
2/22/2025 19:48	65503	MOJO_T2	0	0	0	0	0	0	-1.14	-1.12	1	1	0	900	900	0
2/22/2025 19:48	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:48	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:48	63801	HEMP_T1	0	0	0	0	0	0	-0.23	-0.35	0	0	0	0	0	0
2/22/2025 19:48	13303	ORVI_T2	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
2/22/2025 19:48	64401	LAND_T1	0	0	0	0	0	0	-1.12	-1.12	1	1	0	600	600	0
2/22/2025 19:48	17401	FOHI_T1	0	0	0	0	0	0	-0.92	-0.94	0	0	0	0	0	0
2/22/2025 19:48	64101	REFR_T1	0	0	0	0	0	0	0.01	-0.03	0	0	0	0	0	0
2/22/2025 19:49	15601	NSTR_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
2/22/2025 19:49	64204	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/22/2025 19:49	64202	KINZ_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
2/22/2025 19:49	64101	REFR_T1	0	0	0	0	0	0	0.03	-0.09	0	0	0	0	0	0
2/22/2025 19:49	60502	NMAN_T2	0	0	0	0	0	0	-0.53	-0.51	0	0	0	0	0	0
2/22/2025 19:49	61001	DONV_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
2/22/2025 19:49	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
2/22/2025 19:49	64201	KINZ_T1	0	0	0	0	0	0	-1.4	-1.52	6	6	0	3000	3000	0
2/22/2025 19:49	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:49	15603	NSTR_T2	0	0	0	0	0	0	-1.09	-1.06	0	0	0	0	0	0
2/22/2025 19:49	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:49	64801	MONE_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
2/22/2025 19:50	66504	SMAN_T2	1	0	-1	1.3	0	-1.3	-0.47	-0.48	0	0	0	0	0	0
2/22/2025 19:50	66505	SMAN_T2	3	0	-3	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/22/2025 19:50	25503	MADI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/22/2025 19:50	46004	BERW_T2	2	8	6	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/22/2025 19:50	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:50	64202	KINZ_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
2/22/2025 19:50	44801	EDAN_T2	2	1	-1	0.3	0	-0.3	-0.39	-0.39	0	0	0	0	0	0
2/22/2025 19:50	13302	ORVI_T2	0	6	6	0	0.15	0.15	1.53	1.48	0	0	0	0	0	0
2/22/2025 19:50	44201	POIN_T1	0	21	21	0	0.14	0.14	-1.84	-1.91	1	1	0	1200	1200	0
2/22/2025 19:50	61302	EARL_T1	0	0	0	0	0	0	0.06	0.13	1	1	0	1200	1200	0
2/22/2025 19:50	61701	ELIZ_T1	1	1	0	5	5.3	0.3	-0.51	-0.4	0	0	0	0	0	0
2/22/2025 19:50	12601	MACA_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/22/2025 19:50	46002	BERW_T2	0	0	0	0	0	0	-1.48	-1.45	1	1	0	900	900	0
2/22/2025 19:50	64801	MONE_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
2/22/2025 19:50	64204	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/22/2025 19:50	25402	LAHA_T2	12	19	7	0.89	0.8	-0.09	-0.53	-0.55	0	0	0	0	0	0
2/22/2025 19:50	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:50	25501	MADI_T1	4	1	-3	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
2/22/2025 19:50	12604	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:51	22002	BOHE_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/22/2025 19:51	46802	HEPB_T1	1	1	0	0.1	0.6	0.5	-1.34	-1.37	0	0	0	0	0	0
2/22/2025 19:51	60305	TWVA_T2	2	7	5	0.1	0.11	0.01	0	0	0	0	0	0	0	0
2/22/2025 19:51	65503	MOJO_T2	0	0	0	0	0	0	-1.12	-1.09	1	1	0	900	900	0
2/22/2025 19:51	65601	QVIL_T2	0	0	0	0	0	0	-1.13	-1.08	1	1	0	900	900	0
2/22/2025 19:51	17802	GILB_T1	0	0	0	0	0	0	0.13	0.08	0	0	0	0	0	0
2/22/2025 19:51	63601	LETO_T1	5	5	0	0.4	0.52	0.12	-0.18	-0.37	1	1	0	900	900	0
2/22/2025 19:51	46301	ROHR_T1	1	1	0	5.6	5.8	0.2	0.22	0.24	0	0	0	0	0	0
2/22/2025 19:51	20402	ASHF_T2	3	2	-1	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
2/22/2025 19:51	53502	EVIL_T2	0	0	0	0	0	0	0.12	0.02	1	1	0	600	600	0
2/22/2025 19:51	20401	ASHF_T2	0	1	1	0	0	0	-0.26	-0.24	1	1	0	600	600	0
2/22/2025 19:51	22001	BOHE_T1	25	16	-9	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
2/22/2025 19:51	64402	LAND_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	600	600	0
2/22/2025 19:51	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:51	44201	POIN_T1	0	21	21	0	0.14	0.14	-1.91	-1.93	1	1	0	1200	1200	0
2/22/2025 19:51	22003	BOHE_T1	74	75	1	0.34	0.29	-0.05	0	0	0	0	0	0	0	0
2/22/2025 19:51	65602	QVIL_T2	0	0	0	0	0	0	0.06	0.09	0	0	0	0	0	0
2/22/2025 19:51	60201	ATGL_T2	0	0	0	0	0	0	-0.36	-0.28	0	0	0	0	0	0
2/22/2025 19:51	53501	EVIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/22/2025 19:51	46302	ROHR_T1	3	3	0	0.33	0.77	0.44	0	0	0	0	0	0	0	0
2/22/2025 19:51	60301	TWVA_T2	4	5	1	0.18	0.22	0.04	-4.68	-2.22	2	2	0	2400	2400	0
2/22/2025 19:52	46203	DANV_T2	19	28	9	0.46	0.46	0	-2.15	-2.13	0	0	0	0	0	0
2/22/2025 19:52	44601	SALE_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
2/22/2025 19:52	64202	KINZ_T1	1	1	0	0.7	0.4	-0.3	0.4	0.35	0	0	0	0	0	0
2/22/2025 19:52	65603	QVIL_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
2/22/2025 19:52	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:52	44301	BEAV_T2	0	0	0	0	0	0	-0.91	-0.88	1	1	0	600	600	0
2/22/2025 19:52	64204	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/22/2025 19:52	10805	CHHI_T2	1	3	2	8.4	8.3	-0.1	-1.53	-1.55	1	1	0	600	600	0
2/22/2025 19:52	15601	NSTR_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
2/22/2025 19:52	45501	DERR_T2	0	0	0	0	0	0	-0.67	-0.68	2	2	0	1800	1800	0
2/22/2025 19:52	16103	BING_T2	0	0	0	0	0	0	-1.54	-1.55	1	1	0	900	900	0
2/22/2025 19:52	14402	SSLA_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/22/2025 19:52	14403	SSLA_T1	4	4	0	0.55	0.23	-0.32	0	0	0	0	0	0	0	0
2/22/2025 19:52	60201	ATGL_T2	0	0	0	0	0	0	-0.36	-0.28	0	0	0	0	0	0
2/22/2025 19:52	60803	BUCK_T1	0	0	0	0	0	0	-0.48	-0.52	1	1	0	600	600	0
2/22/2025 19:52	42701	AUGU_T1	2	2	0	0.7	0.35	-0.35	0	0	1	1	0	600	600	0
2/22/2025 19:52	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:53	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/22/2025 19:53	60803	BUCK_T1	0	0	0	0	0	0	-0.96	-1.04	2	2	0	1200	1200	0
2/22/2025 19:53	41301	FISH_T1	2	3	1	0.9	0.7	-0.2	-0.83	-0.86	0	0	0	0	0	0
2/22/2025 19:53	64403	LAND_T1	0	0	0	0	0	0	-1.85	-1.85	1	1	0	900	900	0
2/22/2025 19:53	29401	BELT_T1	61	66	5	0.32	0.33	0.01	0	0	1	1	0	900	900	0
2/22/2025 19:53	67402	WAKE_T2	0	0	0	0	0	0	-0.39	-0.39	1	1	0	600	600	0
2/22/2025 19:53	41303	FISH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:53	22003	BOHE_T1	74	75	1	0.34	0.29	-0.05	0	0	0	0	0	0	0	0
2/22/2025 19:53	44202	POIN_T2	0	0	0	0	0	0	-0.92	-0.93	1	1	0	1200	1200	0
2/22/2025 19:53	46203	DANV_T2	19	28	9	0.46	0.46	0	0	0	0	0	0	0	0	0
2/22/2025 19:53	22001	BOHE_T1	25	16	-9	0.17	0.12	-0.05	0	0	0	0	0	0	0	0
2/22/2025 19:53	46206	DANV_T2	0	1	1	0	0	0	1.35	1.33	2	2	0	2100	2100	0
2/22/2025 19:53	22002	BOHE_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/22/2025 19:53	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:53	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
2/22/2025 19:53	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
2/22/2025 19:53	29402	BELT_T1	1	1	0	9.2	9.3	0.1	0	0	0	0	0	0	0	0
2/22/2025 19:53	45501	DERR_T2	0	0	0	0	0	0	-0.67	-0.68	2	2	0	1800	1800	0
2/22/2025 19:53	46801	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/22/2025 19:53	61001	DONV_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
2/22/2025 19:53	46803	HEPB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:54	11904	ETEX_T2	0	0	0	0	0	0	0.24	0.28	0	0	0	0	0	0
2/22/2025 19:54	67203	TEHI_T1	0	0	0	0	0	0	1.31	1.23	1	1	0	900	900	0
2/22/2025 19:54	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:54	15601	NSTR_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
2/22/2025 19:54	61703	ELIZ_T1	0	0	0	0	0	0	-1.84	-1.83	1	1	0	900	900	0
2/22/2025 19:54	61701	ELIZ_T1	1	1	0	5	5.3	0.3	0	0	0	0	0	0	0	0
2/22/2025 19:54	10801	CHHI_T1	0	1	1	0	0	0	-2.09	-2.08	3	3	0	2100	2100	0
2/22/2025 19:54	15203	SFAR_T2	0	0	0	0	0	0	-1.23	-1.27	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/22/2025 19:54	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/22/2025 19:54	67201	TEHI_T1	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
2/22/2025 19:54	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:54	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:54	10805	CHHI_T2	1	3	2	8.4	8.3	-0.1	-1.53	-1.55	1	1	0	600	600	0
2/22/2025 19:54	64801	MONE_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
2/22/2025 19:55	61701	ELIZ_T1	1	1	0	5	5.3	0.3	0	0	0	0	0	0	0	0
2/22/2025 19:55	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:55	29401	BELT_T1	61	66	5	0.32	0.33	0.01	0	0	0	0	0	0	0	0
2/22/2025 19:55	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:55	65702	RVIL_T2	0	0	0	0	0	0	-1.58	-1.58	1	1	0	600	600	0
2/22/2025 19:55	29402	BELT_T1	1	1	0	9.2	9.3	0.1	0	0	0	0	0	0	0	0
2/22/2025 19:55	42701	AUGU_T1	2	2	0	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
2/22/2025 19:55	61703	ELIZ_T1	0	0	0	0	0	0	-1.84	-1.83	1	1	0	900	900	0
2/22/2025 19:55	46203	DANV_T2	19	28	9	0.46	0.46	0	0	0	0	0	0	0	0	0
2/22/2025 19:55	46206	DANV_T2	0	1	1	0	0	0	1.35	1.33	2	2	0	2100	2100	0
2/22/2025 19:55	17802	GILB_T1	0	0	0	0	0	0	0.17	0.22	0	0	0	0	0	0
2/22/2025 19:56	29401	BELT_T1	61	66	5	0.32	0.33	0.01	0	0	1	1	0	900	900	0
2/22/2025 19:56	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
2/22/2025 19:56	15203	SFAR_T2	0	0	0	0	0	0	-1.23	-1.27	0	0	0	0	0	0
2/22/2025 19:56	61703	ELIZ_T1	0	0	0	0	0	0	-1.84	-1.83	1	1	0	900	900	0
2/22/2025 19:56	13102	NHAM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:56	41303	FISH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:56	52403	GRPA_T2	4	11	7	1.15	0.93	-0.22	-1.11	-1.12	0	0	0	0	0	0
2/22/2025 19:56	65603	QVIL_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
2/22/2025 19:56	52402	GRPA_T2	5	10	5	0.28	0.4	0.12	0	0	0	0	0	0	0	0
2/22/2025 19:56	45003	LIME_2	3	11	8	1.73	1.18	-0.55	0.22	0.33	0	0	0	0	0	0
2/22/2025 19:56	45001	LIME_2	10	3	-7	0.69	0	-0.69	0	0	0	0	0	0	0	0
2/22/2025 19:56	29402	BELT_T1	1	1	0	9.2	9.3	0.1	0	0	0	0	0	0	0	0
2/22/2025 19:56	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:56	11904	ETEX_T2	0	0	0	0	0	0	0.24	0.28	0	0	0	0	0	0
2/22/2025 19:56	61701	ELIZ_T1	1	1	0	5	5.3	0.3	0	0	0	0	0	0	0	0
2/22/2025 19:56	15601	NSTR_T2	0	5	5	0	0.2	0.2	0	0	0	0	0	0	0	0
2/22/2025 19:56	55002	NEWP_T1	2	5	3	0.2	0.52	0.32	0	0	0	0	0	0	0	0
2/22/2025 19:56	55001	NEWP_T1	0	1	1	0	0	0	-0.41	-0.36	0	0	0	0	0	0
2/22/2025 19:56	20402	ASHF_T2	3	2	-1	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
2/22/2025 19:56	45002	LIME_2	1	1	0	3.3	4.1	0.8	0	0	0	0	0	0	0	0
2/22/2025 19:56	13103	NHAM_T2	0	0	0	0	0	0	-1.63	-1.62	1	1	0	600	600	0
2/22/2025 19:56	45501	DERR_T2	0	0	0	0	0	0	-1.34	-1.36	4	4	0	3600	3600	0
2/22/2025 19:56	13105	NHAM_T2	21	27	6	1.15	0.55	-0.6	0	0	0	0	0	0	0	0
2/22/2025 19:56	40101	HUNT_T2	14	13	-1	0.96	1.05	0.09	-1.99	-2.02	0	0	0	0	0	0
2/22/2025 19:56	20401	ASHF_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:56	46004	BERW_T2	2	8	6	0.3	0.5	0.2	-0.76	-0.77	0	0	0	0	0	0
2/22/2025 19:56	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:56	20403	ASHF_T2	0	0	0	0	0	0	0.46	0.52	0	0	0	0	0	0
2/22/2025 19:56	41301	FISH_T1	2	3	1	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
2/22/2025 19:57	65502	MOJO_T2	0	0	0	0	0	0	-2.39	-2.26	0	0	0	0	0	0
2/22/2025 19:57	66303	MCGO_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/22/2025 19:57	52403	GRPA_T2	4	11	7	1.15	0.93	-0.22	0	0	0	0	0	0	0	0
2/22/2025 19:57	46203	DANV_T2	19	28	9	0.46	0.46	0	-2.15	-2.13	0	0	0	0	0	0
2/22/2025 19:57	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:57	52404	GRPA_T2	0	0	0	0	0	0	-0.5	-0.44	0	0	0	0	0	0
2/22/2025 19:57	52402	GRPA_T2	5	10	5	0.28	0.4	0.12	0	0	0	0	0	0	0	0
2/22/2025 19:57	64101	REFR_T1	0	0	0	0	0	0	-0.06	-0.04	0	0	0	0	0	0
2/22/2025 19:57	41902	REED_T1	1	11	10	0.1	0.38	0.28	0	0	0	0	0	0	0	0
2/22/2025 19:57	66302	MCGO_T2	0	2	2	0	0	0	-0.91	-0.79	0	0	0	0	0	0
2/22/2025 19:57	40501	CRES_T2	5	9	4	0.24	0.28	0.04	0	0	0	0	0	0	0	0
2/22/2025 19:57	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:57	41602	CLEV_T1	0	1	1	0	0	0	0	0	1	1	0	600	600	0
2/22/2025 19:57	45501	DERR_T2	0	0	0	0	0	0	-0.67	-0.68	2	2	0	1800	1800	0
2/22/2025 19:57	22602	KIMB_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
2/22/2025 19:57	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
2/22/2025 19:57	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:58	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:58	44601	SALE_T2	0	0	0	0	0	0	-0.17	-0.15	0	0	0	0	0	0
2/22/2025 19:58	15204	SFAR_T2	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
2/22/2025 19:58	46004	BERW_T2	2	8	6	0.3	0.5	0.2	-0.76	-0.77	0	0	0	0	0	0
2/22/2025 19:58	63804	HEMP_T1	1	1	0	6.2	6.3	0.1	0.8	0.81	0	0	0	0	0	0
2/22/2025 19:58	64203	KINZ_T1	0	0	0	0	0	0	-0.46	-0.46	1	1	0	600	600	0
2/22/2025 19:58	45001	LIME_2	10	3	-7	0.69	0	-0.69	0	0	0	0	0	0	0	0
2/22/2025 19:58	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
2/22/2025 19:58	64204	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/22/2025 19:58	46203	DANV_T2	19	28	9	0.46	0.46	0	-6.46	-6.38	0	0	0	0	0	0
2/22/2025 19:58	53901	HALI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/22/2025 19:58	52502	PROG_T2	0	0	0	0	0	0	0.49	0.53	0	0	0	0	0	0
2/22/2025 19:58	11901	ETEX_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
2/22/2025 19:58	60803	BUCK_T1	0	0	0	0	0	0	-0.48	-0.52	1	1	0	600	600	0
2/22/2025 19:58	45402	WBLO_T2	4	3	-1	1.63	1.03	-0.6	-1.49	-1.53	1	1	0	900	900	0
2/22/2025 19:58	10805	CHHI_T2	1	3	2	8.4	8.3	-0.1	-3.06	-3.1	2	2	0	1200	1200	0
2/22/2025 19:58	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:58	40505	CRES_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
2/22/2025 19:58	45002	LIME_2	1	1	0	3.3	4.1	0.8	0	0	0	0	0	0	0	0
2/22/2025 19:58	53903	HALI_T2	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/22/2025 19:58	64202	KINZ_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
2/22/2025 19:58	45702	LIND_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
2/22/2025 19:58	10401	LIGA_T1	2	19	17	0.1	0.14	0.04	0	0	0	0	0	0	0	0
2/22/2025 19:58	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:58	53902	HALI_T2	1	1	0	5.1	5.3	0.2	-0.91	-0.92	0	0	0	0	0	0
2/22/2025 19:58	47802	MOCA_T2	1	1	0	1	0.7	-0.3	-0.8	-0.83	0	0	0	0	0	0
2/22/2025 19:58	45003	LIME_2	3	11	8	1.73	1.18	-0.55	0.22	0.33	0	0	0	0	0	0
2/22/2025 19:59	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:59	53901	HALI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/22/2025 19:59	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:59	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
2/22/2025 19:59	53902	HALI_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
2/22/2025 19:59	45003	LIME_2	3	11	8	1.73	1.18	-0.55	0.22	0.33	0	0	0	0	0	0
2/22/2025 19:59	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:59	40601	PIGR_T1	3	22	19	0.1	0.17	0.07	0	0	0	0	0	0	0	0
2/22/2025 19:59	52403	GRPA_T2	4	11	7	1.15	0.93	-0.22	-1.11	-1.12	0	0	0	0	0	0
2/22/2025 19:59	61304	EARL_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	600	600	0
2/22/2025 19:59	46203	DANV_T2	19	28	9	0.46	0.46	0	-2.15	-2.13	0	0	0	0	0	0
2/22/2025 19:59	53903	HALI_T2	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/22/2025 19:59	52502	PROG_T2	0	0	0	0	0	0	0.49	0.53	0	0	0	0	0	0
2/22/2025 19:59	46803	HEPB_T2	0	0	0	0	0	0	0.49	0.52	0	0	0	0	0	0
2/22/2025 19:59	45002	LIME_2	1	1	0	3.3	4.1	0.8	0	0	0	0	0	0	0	0
2/22/2025 19:59	45001	LIME_2	10	3	-7	0.69	0	-0.69	0	0	0	0	0	0	0	0
2/22/2025 19:59	67402	WAKE_T2	0	0	0	0	0	0	-0.39	-0.39	1	1	0	600	600	0
2/22/2025 19:59	46801	HEPB_T2	0	1	1	0	0.1	0.1	0.59	0.57	0	0	0	0	0	0
2/22/2025 19:59	42701	AUGU_T1	2	2	0	0.7	0.35	-0.35	0	0	1	1	0	600	600	0
2/22/2025 19:59	17002	RIRO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 19:59	52402	GRPA_T2	5	10	5	0.28	0.4	0.12	0	0	0	0	0	0	0	0
2/22/2025 19:59	45501	DERR_T2	0	0	0	0	0	0	-0.67	-0.68	2	2	0	1800	1800	0
2/22/2025 20:00	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
2/22/2025 20:00	66505	SMAN_T2	3	2	-1	0.4	0.3	-0.1	-0.6	-0.54	1	1	0	900	900	0
2/22/2025 20:00	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 20:00	42501	ALTA_T2	0	1	1	0	7.2	7.2	0	0	0	0	0	0	0	0
2/22/2025 20:00	41301	FISH_T1	3	2	-1	0.67	0.95	0.28	-0.83	-0.86	0	0	0	0	0	0
2/22/2025 20:00	53903	HALI_T2	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/22/2025 20:00	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 20:00	40501	CRES_T2	5	10	5	0.24	0.26	0.02	0	0	0	0	0	0	0	0
2/22/2025 20:00	12602	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 20:00	40505	CRES_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
2/22/2025 20:00	45402	WBLO_T2	2	3	1	2.05	1.1	-0.95	-1.49	-1.53	1	1	0	900	900	0
2/22/2025 20:00	53901	HALI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/22/2025 20:00	53902	HALI_T2	1	1	0	5.1	5.3	0.2	-2.73	-2.76	0	0	0	0	0	0
2/22/2025 20:00	42503	ALTA_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
2/22/2025 20:00	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 20:00	12601	MACA_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
2/22/2025 20:00	23502	GEOR_T1	0	0	0	0	0	0	-0.46	-0.52	0	0	0	0	0	0
2/22/2025 20:00	45001	LIME_2	1	2	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
2/22/2025 20:00	45003	LIME_2	7	8	1	0.79	2.1	1.31	0	0	0	0	0	0	0	0
2/22/2025 20:00	46301	ROHR_T1	1	1	0	5.3	5.9	0.6	0	0	0	0	0	0	0	0
2/22/2025 20:00	52403	GRPA_T2	10	5	-5	0.59	0.43	-0.16	0	0	0	0	0	0	0	0
2/22/2025 20:00	67201	TEHI_T1	0	7	7	0	0.14	0.14	0.1	0.12	0	0	0	0	0	0
2/22/2025 20:00	46302	ROHR_T1	3	3	0	0.17	0.8	0.63	0.26	0.25	0	0	0	0	0	0
2/22/2025 20:00	45002	LIME_2	1	1	0	3.7	4.1	0.4	0	0	0	0	0	0	0	0
2/22/2025 20:00	48301	ORWI_T1	2	2	0	4.4	4.4	0	-1.02	-1.05	1	1	0	900	900	0
2/22/2025 20:00	40601	PIGR_T1	19	23	4	0.13	0.18	0.05	-0.13	-0.09	0	0	0	0	0	0
2/22/2025 20:00	41602	CLEV_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/22/2025 20:00	52402	GRPA_T2	10	3	-7	0.24	0.7	0.46	0	0	0	0	0	0	0	0
2/22/2025 20:00	44801	EDAN_T2	1	0	-1	0.2	0	-0.2	-0.39	-0.4	0	0	0	0	0	0
2/22/2025 20:00	10801	CHHI_T1	1	1	0	0.2	0	-0.2	-2.09	-2.08	3	3	0	2100	2100	0
2/22/2025 20:00	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 20:00	17802	GILB_T1	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
2/22/2025 20:01	53903	HALI_T2	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/22/2025 20:01	45501	DERR_T2	0	0	0	0	0	0	-1.34	-1.36	4	4	0	3600	3600	0
2/22/2025 20:01	61703	ELIZ_T1	0	0	0	0	0	0	-1.84	-1.83	1	1	0	900	900	0
2/22/2025 20:01	40501	CRES_T2	5	10	5	0.24	0.26	0.02	0	0	0	0	0	0	0	0
2/22/2025 20:01	53901	HALI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/22/2025 20:01	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 20:01	53902	HALI_T2	1	1	0	5.1	5.3	0.2	-0.91	-0.92	0	0	0	0	0	0
2/22/2025 20:01	52501	PROG_T1	60	130	70	0.12	0.18	0.06	-0.84	-0.78	1	1	0	300	300	0
2/22/2025 20:01	44801	EDAN_T2	1	0	-1	0.2	0	-0.2	-0.39	-0.4	0	0	0	0	0	0
2/22/2025 20:01	46203	DANV_T2	26	29	3	0.42	0.43	0.01	0	0	0	0	0	0	0	0
2/22/2025 20:01	52402	GRPA_T2	10	3	-7	0.24	0.7	0.46	0	0	0	0	0	0	0	0
2/22/2025 20:01	45002	LIME_2	1	1	0	3.7	4.1	0.4	0	0	0	0	0	0	0	0
2/22/2025 20:01	64101	REFR_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
2/22/2025 20:01	45003	LIME_2	7	8	1	0.79	2.1	1.31	0.22	0.33	0	0	0	0	0	0
2/22/2025 20:01	46206	DANV_T2	1	0	-1	0.2	0	-0.2	1.35	1.33	2	2	0	2100	2100	0
2/22/2025 20:01	57401	SPAN_T1	0	0	0	0	0	0	-0.78	-0.75	1	1	0	600	600	0
2/22/2025 20:01	45001	LIME_2	1	2	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
2/22/2025 20:01	40505	CRES_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
2/22/2025 20:01	47203	FAXO_T2	0	0	0	0	0	0	-2.4	-2.42	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/22/2025 20:01	61701	ELIZ_T1	1	1	0	5	5.3	0.3	0	0	0	0	0	0	0	0
2/22/2025 20:01	52403	GRPA_T2	10	5	-5	0.59	0.43	-0.16	0	0	0	0	0	0	0	0
2/22/2025 20:01	54505	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/22/2025 20:01	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 20:01	43202	MVIL_T2	0	0	0	0	0	0	-0.62	-0.68	0	0	0	0	0	0
2/22/2025 20:01	58102	NERI_T1	1	1	0	0.3	0.4	0.1	-1.16	-1.19	1	1	0	1200	1200	0
2/22/2025 20:01	52401	GRPA_T2	0	0	0	0	0	0	-0.81	-0.68	0	0	0	0	0	0
2/22/2025 20:01	54506	ENOL_T2	0	0	0	0	0	0	-1.38	-1.4	0	0	0	0	0	0
2/22/2025 20:02	46203	DANV_T2	26	29	3	0.42	0.43	0.01	-4.31	-4.25	0	0	0	0	0	0
2/22/2025 20:02	52502	PROG_T2	0	0	0	0	0	0	0.49	0.53	0	0	0	0	0	0
2/22/2025 20:02	10801	CHHI_T1	1	1	0	0.2	0	-0.2	-2.09	-2.08	3	3	0	2100	2100	0
2/22/2025 20:02	20601	GRWO_T2	0	0	0	0	0	0	-0.19	-0.14	0	0	0	0	0	0
2/22/2025 20:02	52403	GRPA_T2	10	5	-5	0.59	0.43	-0.16	0	0	0	0	0	0	0	0
2/22/2025 20:02	54504	ENOL_T2	0	0	0	0	0	0	-1.01	-1.01	1	1	0	600	600	0
2/22/2025 20:02	20402	ASHF_T2	2	5	3	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/22/2025 20:02	20401	ASHF_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/22/2025 20:02	20603	GRWO_T2	21	21	0	4.41	2.33	-2.08	0	0	0	0	0	0	0	0
2/22/2025 20:02	67901	WNHO_T2	0	0	0	0	0	0	-0.3	-0.27	0	0	0	0	0	0
2/22/2025 20:02	41602	CLEV_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/22/2025 20:02	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 20:02	44801	EDAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/22/2025 20:02	52402	GRPA_T2	10	3	-7	0.24	0.7	0.46	0	0	0	0	0	0	0	0
2/22/2025 20:02	46206	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/22/2025 20:02	53902	HALI_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
2/22/2025 20:02	44201	POIN_T1	5	57	52	0.1	0.16	0.06	-1.91	-1.93	1	1	0	1200	1200	0
2/22/2025 20:02	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 20:02	41301	FISH_T1	3	2	-1	0.67	0.95	0.28	-0.83	-0.86	0	0	0	0	0	0
2/22/2025 20:02	53901	HALI_T2	0	2	2	0	0.15	0.15	-1.3	-1.3	0	0	0	0	0	0
2/22/2025 20:02	54505	ENOL_T2	0	1	1	0	0.1	0.1	-0.65	-0.65	1	1	0	600	600	0
2/22/2025 20:02	52501	PROG_T1	60	130	70	0.12	0.18	0.06	0	0	0	0	0	0	0	0
2/22/2025 20:02	20403	ASHF_T2	0	0	0	0	0	0	0.46	0.52	0	0	0	0	0	0
2/22/2025 20:02	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.08	1	1	0	600	600	0
2/22/2025 20:02	40501	CRES_T2	5	10	5	0.24	0.26	0.02	0	0	0	0	0	0	0	0
2/22/2025 20:02	44301	BEAV_T2	0	0	0	0	0	0	-0.91	-0.88	1	1	0	600	600	0
2/22/2025 20:02	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 20:02	53903	HALI_T2	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/22/2025 20:02	45501	DERR_T2	0	0	0	0	0	0	-0.67	-0.68	2	2	0	1800	1800	0
2/22/2025 20:03	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 20:03	61701	ELIZ_T1	1	1	0	5	5.3	0.3	0	0	0	0	0	0	0	0
2/22/2025 20:03	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 20:03	61703	ELIZ_T1	0	0	0	0	0	0	-1.84	-1.83	1	1	0	900	900	0
2/22/2025 20:03	52501	PROG_T1	60	130	70	0.12	0.18	0.06	-2.52	-2.34	3	3	0	900	900	0
2/22/2025 20:03	53501	EVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/22/2025 20:03	42601	TUSC_T1	1	1	0	0.1	0	-0.1	-1.43	-1.4	2	2	0	1800	1800	0
2/22/2025 20:03	40601	PIGR_T1	19	23	4	0.13	0.18	0.05	-0.13	-0.09	0	0	0	0	0	0
2/22/2025 20:03	53502	EVIL_T2	0	0	0	0	0	0	0.02	0.11	1	1	0	600	600	0
2/22/2025 20:03	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.08	1	1	0	600	600	0
2/22/2025 20:03	42701	AUGU_T1	2	2	0	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
2/22/2025 20:03	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/22/2025 20:03	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 20:03	59003	MIFF_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
2/22/2025 20:03	55002	NEWP_T1	4	5	1	0.48	0.54	0.06	-0.21	-0.21	0	0	0	0	0	0
2/22/2025 20:03	41602	CLEV_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/22/2025 20:04	14402	SSLA_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/22/2025 20:04	66303	MCGO_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/22/2025 20:04	52502	PROG_T2	0	0	0	0	0	0	0.49	0.53	0	0	0	0	0	0
2/22/2025 20:04	14403	SSLA_T1	4	6	2	0.33	0.3	-0.03	0.75	0.74	0	0	0	0	0	0
2/22/2025 20:04	66302	MCGO_T2	0	0	0	0	0	0	-1.83	-1.59	0	0	0	0	0	0
2/22/2025 20:04	53802	MBRG_T2	0	0	0	0	0	0	0.34	0.44	0	0	0	0	0	0
2/22/2025 20:04	52402	GRPA_T2	10	3	-7	0.24	0.7	0.46	0	0	0	0	0	0	0	0
2/22/2025 20:04	52501	PROG_T1	60	130	70	0.12	0.18	0.06	0	0	0	0	0	0	0	0
2/22/2025 20:04	57401	SPAN_T1	0	0	0	0	0	0	-1.56	-1.49	2	2	0	1200	1200	0
2/22/2025 20:04	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.08	1	1	0	600	600	0
2/22/2025 20:04	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 20:04	52403	GRPA_T2	10	5	-5	0.59	0.43	-0.16	-1.11	-1.12	0	0	0	0	0	0
2/22/2025 20:04	45501	DERR_T2	0	0	0	0	0	0	-0.67	-0.68	2	2	0	1800	1800	0
2/22/2025 20:04	40505	CRES_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
2/22/2025 20:05	53501	EVIL_T2	0	1	1	0	0.2	0.2	-0.59	-0.61	0	0	0	0	0	0
2/22/2025 20:05	55002	NEWP_T1	4	5	1	0.48	0.54	0.06	0	0	0	0	0	0	0	0
2/22/2025 20:05	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.41	-0.36	0	0	0	0	0	0
2/22/2025 20:05	57401	SPAN_T1	0	0	0	0	0	0	-1.56	-1.49	2	2	0	1200	1200	0
2/22/2025 20:05	52401	GRPA_T2	0	0	0	0	0	0	-0.81	-0.68	0	0	0	0	0	0
2/22/2025 20:05	40504	CRES_T1	0	0	0	0	0	0	-1.88	-1.87	0	0	0	0	0	0
2/22/2025 20:05	61803	EELI_T2	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
2/22/2025 20:05	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.08	1	1	0	600	600	0
2/22/2025 20:05	52402	GRPA_T2	10	3	-7	0.24	0.7	0.46	0	0	0	0	0	0	0	0
2/22/2025 20:05	52403	GRPA_T2	10	5	-5	0.59	0.43	-0.16	-1.11	-1.12	0	0	0	0	0	0
2/22/2025 20:06	40505	CRES_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
2/22/2025 20:06	57401	SPAN_T1	0	0	0	0	0	0	-0.78	-0.75	1	1	0	600	600	0
2/22/2025 20:06	40601	PIGR_T1	19	23	4	0.13	0.18	0.05	0	0	0	0	0	0	0	0
2/22/2025 20:06	40602	PIGR_T1	0	0	0	0	0	0	-1.2	-1.19	0	0	0	0	0	0
2/22/2025 20:06	58401	MORO_T1	0	0	0	0	0	0	-1.02	-1.08	1	1	0	600	600	0
2/22/2025 20:06	61701	ELIZ_T1	1	1	0	5	5.3	0.3	0	0	0	0	0	0	0	0
2/22/2025 20:06	57205	ROSS_T1	0	0	0	0	0	0	-0.8	-0.84	1	1	0	900	900	0
2/22/2025 20:06	45501	DERR_T2	0	0	0	0	0	0	-0.68	-0.66	2	2	0	1800	1800	0
2/22/2025 20:07	52501	PROG_T1	60	130	70	0.12	0.18	0.06	-0.78	-0.8	1	1	0	300	300	0
2/22/2025 20:07	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 20:07	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 20:07	45001	LIME_2	1	2	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
2/22/2025 20:07	44202	POIN_T2	0	0	0	0	0	0	-0.93	-0.91	1	1	0	1200	1200	0
2/22/2025 20:07	45003	LIME_2	7	8	1	0.79	2.1	1.31	0.65	0.45	0	0	0	0	0	0
2/22/2025 20:07	45002	LIME_2	1	1	0	3.7	4.1	0.4	0	0	0	0	0	0	0	0
2/22/2025 20:07	55001	NEWP_T1	1	0	-1	0.2	0	-0.2	-0.36	-0.39	0	0	0	0	0	0
2/22/2025 20:07	55002	NEWP_T1	4	5	1	0.48	0.54	0.06	0	0	0	0	0	0	0	0
2/22/2025 20:07	40505	CRES_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
2/22/2025 20:07	57401	SPAN_T1	0	0	0	0	0	0	-0.75	-0.75	1	1	0	600	600	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	55105	WERT_T1	0	0	0	0	0	0	-0.44	-0.45	1	1	0	900	900	0
2/22/2025 20:08	52403	GRPA_T2	10	5	-5	0.59	0.43	-0.16	-2.23	-2.33	0	0	0	0	0	0
2/22/2025 20:08	52502	PROG_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
2/22/2025 20:08	52501	PROG_T1	60	130	70	0.12	0.18	0.06	0	0	0	0	0	0	0	0
2/22/2025 20:08	52402	GRPA_T2	10	3	-7	0.24	0.7	0.46	0	0	0	0	0	0	0	0
2/22/2025 20:09	52402	GRPA_T2	10	3	-7	0.24	0.7	0.46	0	0	0	0	0	0	0	0
2/22/2025 20:09	52403	GRPA_T2	10	5	-5	0.59	0.43	-0.16	0	0	0	0	0	0	0	0
2/22/2025 20:10	53901	HALI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/22/2025 20:10	53903	HALI_T2	2	2	0	0.5	0.7	0.2	-0.21	-0.18	0	0	0	0	0	0
2/22/2025 20:10	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2025 20:10	53902	HALI_T2	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
2/22/2025 20:12	57401	SPAN_T1	0	0	0	0	0	0	-0.75	-0.75	1	1	0	600	600	0
2/22/2025 20:14	16103	BING_T2	0	0	0	0	0	0	-1.55	-1.57	1	1	0	900	900	0
2/22/2025 20:16	46203	DANV_T2	22	30	8	0.5	0.41	-0.09	-2.13	-2.16	0	0	0	0	0	0
2/22/2025 20:42	65202	PRIN_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/22/2025 20:42	65203	PRIN_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/22/2025 20:42	65205	PRIN_T1	1	2	1	1.7	1.7	0	0	0	0	0	0	0	0	0
2/22/2025 23:34	53801	MBRG_T2	7	12	5	0.17	0.15	-0.02	-1.65	-1.68	0	0	0	0	0	0
2/23/2025 7:26	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 7:26	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 7:27	40504	CRES_T1	0	0	0	0	0	0	-1.88	-1.88	0	0	0	0	0	0
2/23/2025 7:42	46203	DANV_T2	3	4	1	0.1	0.1	0	-2.02	0	0	0	0	0	0	0
2/23/2025 7:42	46204	DANV_T2	25	71	46	0.32	0.23	-0.09	0	0	0	0	0	0	0	0
2/23/2025 7:42	46206	DANV_T2	6	16	10	0.52	0.33	-0.19	0	0	0	0	0	0	0	0
2/23/2025 7:45	53501	EVIL_T2	0	2	2	0	0.2	0.2	-0.54	0	0	0	0	0	0	0
2/23/2025 7:45	53502	EVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/23/2025 9:00	11104	EGYP_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
2/23/2025 9:00	46203	DANV_T2	22	55	33	0.32	0.42	0.1	0	0	0	0	0	0	0	0
2/23/2025 9:00	46204	DANV_T2	1	8	7	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/23/2025 9:00	46206	DANV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 9:01	45002	LIME_2	1	1	0	5.7	5.4	-0.3	0.62	0.6	0	0	0	0	0	0
2/23/2025 9:01	46203	DANV_T2	22	55	33	0.32	0.42	0.1	0	0	0	0	0	0	0	0
2/23/2025 9:01	45003	LIME_2	2	2	0	1.9	1.7	-0.2	0	0	0	0	0	0	0	0
2/23/2025 9:01	46204	DANV_T2	1	8	7	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/23/2025 9:01	45001	LIME_2	22	2	-20	0.18	0	-0.18	0	0	0	0	0	0	0	0
2/23/2025 9:06	64101	REFR_T1	0	0	0	0	0	0	0.03	0.06	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/23/2025 9:08	52502	PROG_T2	0	1	1	0	0.2	0.2	-0.49	-0.47	1	1	0	900	900	0
2/23/2025 9:09	29401	BELT_T1	107	49	-58	0.39	0.23	-0.16	0	0	0	0	0	0	0	0
2/23/2025 9:09	64101	REFR_T1	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
2/23/2025 9:09	65202	PRIN_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
2/23/2025 9:09	65205	PRIN_T1	2	2	0	1.35	1.8	0.45	0	0	0	0	0	0	0	0
2/23/2025 9:09	29402	BELT_T1	22	32	10	0.64	0.47	-0.17	0	0	0	0	0	0	0	0
2/23/2025 9:10	64101	REFR_T1	0	0	0	0	0	0	0.01	0.03	0	0	0	0	0	0
2/23/2025 9:11	29402	BELT_T1	22	32	10	0.64	0.47	-0.17	0	0	0	0	0	0	0	0
2/23/2025 9:11	29401	BELT_T1	107	49	-58	0.39	0.23	-0.16	0	0	0	0	0	0	0	0
2/23/2025 9:12	52502	PROG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/23/2025 9:12	15201	SFAR_T1	0	0	0	0	0	0	-0.24	-0.14	0	0	0	0	0	0
2/23/2025 9:12	45501	DERR_T2	0	1	1	0	0.5	0.5	-0.59	-0.57	0	0	0	0	0	0
2/23/2025 9:13	46203	DANV_T2	22	55	33	0.32	0.42	0.1	0	-4.17	0	0	0	0	0	0
2/23/2025 9:13	46204	DANV_T2	1	8	7	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/23/2025 9:13	45501	DERR_T2	0	1	1	0	0.5	0.5	-0.59	-0.57	0	0	0	0	0	0
2/23/2025 9:14	45501	DERR_T2	0	1	1	0	0.5	0.5	-0.59	-0.57	0	0	0	0	0	0
2/23/2025 9:15	45501	DERR_T2	1	2	1	0.3	0.45	0.15	-0.59	-0.57	0	0	0	0	0	0
2/23/2025 9:16	10801	CHHI_T1	1	3	2	0.5	0.2	-0.3	-2.15	-2.15	0	0	0	0	0	0
2/23/2025 9:16	61302	EARL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/23/2025 9:16	61304	EARL_T1	0	1	1	0	0.3	0.3	-0.95	-0.95	0	0	0	0	0	0
2/23/2025 9:17	52404	GRPA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/23/2025 9:17	52403	GRPA_T2	17	20	3	0.53	0.64	0.11	-0.65	-0.74	0	0	0	0	0	0
2/23/2025 9:17	46204	DANV_T2	7	3	-4	0.33	0.5	0.17	0	0	0	0	0	0	0	0
2/23/2025 9:17	46203	DANV_T2	29	65	36	0.4	0.43	0.03	0	-2.08	0	0	0	0	0	0
2/23/2025 9:17	52401	GRPA_T2	6	2	-4	0.18	0.25	0.07	0	0	0	0	0	0	0	0
2/23/2025 9:17	52402	GRPA_T2	2	3	1	0.5	0.57	0.07	0	0	0	0	0	0	0	0
2/23/2025 9:18	52402	GRPA_T2	2	3	1	0.5	0.57	0.07	0	0	0	0	0	0	0	0
2/23/2025 9:18	52403	GRPA_T2	17	20	3	0.53	0.64	0.11	0	0	0	0	0	0	0	0
2/23/2025 9:18	52404	GRPA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/23/2025 9:18	46204	DANV_T2	7	3	-4	0.33	0.5	0.17	0	0	0	0	0	0	0	0
2/23/2025 9:18	46203	DANV_T2	29	65	36	0.4	0.43	0.03	0	-2.08	0	0	0	0	0	0
2/23/2025 9:18	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 9:18	52401	GRPA_T2	6	2	-4	0.18	0.25	0.07	0	0	0	0	0	0	0	0
2/23/2025 9:19	52403	GRPA_T2	17	20	3	0.53	0.64	0.11	-0.65	-0.74	0	0	0	0	0	0
2/23/2025 9:19	52402	GRPA_T2	2	3	1	0.5	0.57	0.07	0	0	0	0	0	0	0	0
2/23/2025 9:19	52404	GRPA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/23/2025 9:19	52401	GRPA_T2	6	2	-4	0.18	0.25	0.07	0	0	0	0	0	0	0	0
2/23/2025 9:21	45001	LIME_2	2	2	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
2/23/2025 9:21	45002	LIME_2	1	1	0	4.9	5.6	0.7	0	0	0	0	0	0	0	0
2/23/2025 9:21	55002	NEWP_T1	9	12	3	1	1.13	0.13	-0.16	-0.2	0	0	0	0	0	0
2/23/2025 9:21	45003	LIME_2	2	2	0	1.25	1.55	0.3	0.17	0.23	0	0	0	0	0	0
2/23/2025 9:23	23001	SAJO_T1	0	0	0	0	0	0	-1.47	-1.51	0	0	0	0	0	0
2/23/2025 9:23	64101	REFR_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
2/23/2025 9:26	29402	BELT_T1	1	35	34	7.8	0.48	-7.32	0	0	0	0	0	0	0	0
2/23/2025 9:26	29401	BELT_T1	0	66	66	0	0.31	0.31	0	0	0	0	0	0	0	0
2/23/2025 9:26	67402	WAKE_T2	0	0	0	0	0	0	-0.34	-0.38	0	0	0	0	0	0
2/23/2025 9:27	60201	ATGL_T2	14	0	-14	0.18	0	-0.18	0.53	0.52	0	0	0	0	0	0
2/23/2025 9:28	67402	WAKE_T2	0	0	0	0	0	0	-0.34	-0.38	0	0	0	0	0	0
2/23/2025 9:28	60801	BUCK_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/23/2025 9:28	60803	BUCK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/23/2025 9:28	61506	EPET_T2	0	0	0	0	0	0	0	-1.1	0	0	0	0	0	0
2/23/2025 9:29	60201	ATGL_T2	14	0	-14	0.18	0	-0.18	0	0	0	0	0	0	0	0
2/23/2025 9:30	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/23/2025 9:30	60801	BUCK_T1	0	1	1	0	0.1	0.1	-0.4	-0.46	0	0	0	0	0	0
2/23/2025 9:30	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 9:31	52402	GRPA_T2	3	6	3	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
2/23/2025 9:31	52401	GRPA_T2	2	1	-1	0.25	0.8	0.55	0	0	0	0	0	0	0	0
2/23/2025 9:31	41801	GOCI_T2	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
2/23/2025 9:31	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/23/2025 9:31	52403	GRPA_T2	18	21	3	0.65	0.72	0.07	-0.74	-0.77	0	0	0	0	0	0
2/23/2025 9:34	64402	LAND_T2	0	0	0	0	0	0	-0.55	-0.6	0	0	0	0	0	0
2/23/2025 9:34	55002	NEWP_T1	8	11	3	1.13	1.21	0.08	-0.2	-0.2	0	0	0	0	0	0
2/23/2025 9:34	15405	WALL_T1	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
2/23/2025 9:36	65802	RTWN_T2	0	1	1	0	0.7	0.7	-0.15	0	0	0	0	0	0	0
2/23/2025 9:36	41801	GOCI_T2	0	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0
2/23/2025 9:37	66302	MCGO_T2	0	0	0	0	0	0	-1.59	-1.63	0	0	0	0	0	0
2/23/2025 9:37	66303	MCGO_T2	1	2	1	0.9	0.45	-0.45	0	0	0	0	0	0	0	0
2/23/2025 9:38	67201	TEHI_T1	0	2	2	0	0.1	0.1	0.04	0.14	0	0	0	0	0	0
2/23/2025 9:39	67902	WNHO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/23/2025 9:39	55002	NEWP_T1	8	11	3	1.13	1.21	0.08	-0.2	-0.2	0	0	0	0	0	0
2/23/2025 9:39	67901	WNHO_T2	5	7	2	0.78	0.83	0.05	0	0	0	0	0	0	0	0
2/23/2025 9:40	64101	REFR_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
2/23/2025 9:41	29402	BELT_T1	32	22	-10	0.47	0.63	0.16	0	0	0	0	0	0	0	0
2/23/2025 9:41	29401	BELT_T1	49	83	34	0.23	0.33	0.1	0	0	0	0	0	0	0	0
2/23/2025 9:42	67901	WNHO_T2	5	7	2	0.78	0.83	0.05	-0.24	-0.19	0	0	0	0	0	0
2/23/2025 9:42	67902	WNHO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/23/2025 9:43	41602	CLEV_T1	5	1	-4	0.74	0	-0.74	0	0	0	0	0	0	0	0
2/23/2025 9:44	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/23/2025 9:44	60801	BUCK_T1	0	1	1	0	0.1	0.1	-0.23	-0.18	0	0	0	0	0	0
2/23/2025 9:45	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/23/2025 9:45	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 9:45	46801	HEPB_T2	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
2/23/2025 9:48	22602	KIMB_T1	0	0	0	0	0	0	0.32	0.38	0	0	0	0	0	0
2/23/2025 9:48	22601	KIMB_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/23/2025 9:49	64403	LAND_T1	0	0	0	0	0	0	-2	-1.98	0	0	0	0	0	0
2/23/2025 9:52	66202	SISP_T2	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
2/23/2025 9:52	47802	MOCA_T2	1	1	0	1.3	0	-1.3	-0.83	-0.84	0	0	0	0	0	0
2/23/2025 9:53	64101	REFR_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
2/23/2025 9:53	59402	RFLD_T2	0	1	1	0	0.4	0.4	-0.93	-0.88	0	0	0	0	0	0
2/23/2025 9:55	59402	RFLD_T2	0	1	1	0	0.4	0.4	-0.93	-0.88	0	0	0	0	0	0
2/23/2025 9:56	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 10:14	61505	EPET_T1	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
2/23/2025 10:14	61502	EPET_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/23/2025 10:15	45501	DERR_T2	3	4	1	0.43	0.45	0.02	-2.43	-2.46	0	0	0	0	0	0
2/23/2025 10:16	44302	BEAV_T2	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
2/23/2025 10:16	44301	BEAV_T2	5	8	3	0.43	0.35	-0.08	0	0	0	0	0	0	0	0
2/23/2025 10:17	40101	HUNT_T2	11	4	-7	0.65	1.1	0.45	-2.06	-2.08	0	0	0	0	0	0
2/23/2025 10:17	17805	GILB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 10:17	17804	GILB_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/23/2025 10:18	17805	GILB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 10:18	40101	HUNT_T2	11	4	-7	0.65	1.1	0.45	0	0	0	0	0	0	0	0
2/23/2025 10:18	17804	GILB_T2	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/23/2025 10:18	58401	MORO_T1	0	0	0	0	0	0	-2.21	-2.22	0	0	0	0	0	0
2/23/2025 10:20	47802	MOCA_T2	0	0	0	0	0	0	-0.84	-0.8	0	0	0	0	0	0
2/23/2025 10:20	45001	LIME_2	22	85	63	0.26	0.28	0.02	0	0	0	0	0	0	0	0
2/23/2025 10:20	45002	LIME_2	1	2	1	5.5	2.9	-2.6	0	0	0	0	0	0	0	0
2/23/2025 10:20	41902	REED_T1	0	2	2	0	0	0	-0.02	0.2	0	0	0	0	0	0
2/23/2025 10:20	45003	LIME_2	1	3	2	3.6	2.2	-1.4	0	0	0	0	0	0	0	0
2/23/2025 10:24	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 10:25	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 10:26	64201	KINZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/23/2025 10:26	64204	KINZ_T1	64	83	19	0.53	1.32	0.79	0	0	0	0	0	0	0	0
2/23/2025 10:26	64202	KINZ_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
2/23/2025 10:26	64203	KINZ_T1	1	3	2	0.7	0.43	-0.27	0	0	0	0	0	0	0	0
2/23/2025 10:28	58401	MORO_T1	0	0	0	0	0	0	-1.11	-1.1	0	0	0	0	0	0
2/23/2025 10:28	59001	MIFF_T1	41	45	4	0.25	0.33	0.08	0	0	0	0	0	0	0	0
2/23/2025 10:28	59002	MIFF_T1	6	6	0	0.32	0.48	0.16	0	0	0	0	0	0	0	0
2/23/2025 10:28	14403	SSLA_T1	7	4	-3	0.51	0.1	-0.41	0	0	0	0	0	0	0	0
2/23/2025 10:28	59003	MIFF_T1	5	4	-1	0.38	0.55	0.17	0.32	0.35	0	0	0	0	0	0
2/23/2025 10:28	14402	SSLA_T1	12	6	-6	0.83	0.3	-0.53	0	0	0	0	0	0	0	0
2/23/2025 10:29	20601	GRWO_T2	0	0	0	0	0	0	-0.22	-0.26	0	0	0	0	0	0
2/23/2025 10:29	20603	GRWO_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/23/2025 10:30	65206	PRIN_T4	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/23/2025 10:30	52501	PROG_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
2/23/2025 10:30	65207	PRIN_T4	4	4	0	2.23	1.07	-1.16	0	0	0	0	0	0	0	0
2/23/2025 10:30	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 10:31	65603	QVIL_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/23/2025 10:31	60201	ATGL_T2	1	2	1	0.1	0.2	0.1	0.51	0.59	0	0	0	0	0	0
2/23/2025 10:31	65601	QVIL_T2	2	9	7	0.25	0.26	0.01	0	0	0	0	0	0	0	0
2/23/2025 10:31	65602	QVIL_T2	52	57	5	0.64	0.77	0.13	0	0	0	0	0	0	0	0
2/23/2025 10:31	66504	SMAN_T2	1	1	0	0.6	0.8	0.2	-0.54	-0.53	0	0	0	0	0	0
2/23/2025 10:32	64201	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/23/2025 10:32	64202	KINZ_T1	3	3	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
2/23/2025 10:32	64204	KINZ_T1	74	82	8	0.88	1.33	0.45	0	0	0	0	0	0	0	0
2/23/2025 10:32	64203	KINZ_T1	2	3	1	0.45	0.43	-0.02	-0.45	-0.48	0	0	0	0	0	0
2/23/2025 10:32	10801	CHHI_T1	1	7	6	0.8	0.49	-0.31	2.12	2.18	0	0	0	0	0	0
2/23/2025 10:34	65602	QVIL_T2	52	57	5	0.64	0.77	0.13	0	0	0	0	0	0	0	0
2/23/2025 10:34	65601	QVIL_T2	2	9	7	0.25	0.26	0.01	-0.08	-0.16	0	0	0	0	0	0
2/23/2025 10:34	65603	QVIL_T2	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/23/2025 10:35	46803	HEPB_T2	1	0	-1	0.3	0	-0.3	0	0.26	0	0	0	0	0	0
2/23/2025 10:35	67203	TEHI_T1	0	1	1	0	0.1	0.1	1	1.09	0	0	0	0	0	0
2/23/2025 10:35	67201	TEHI_T1	4	4	0	0.45	0.68	0.23	0	0	0	0	0	0	0	0
2/23/2025 10:35	46801	HEPB_T2	2	2	0	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
2/23/2025 10:37	63602	LETO_T1	1	3	2	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
2/23/2025 10:37	63601	LETO_T1	8	9	1	0.85	0.71	-0.14	-0.1	0.01	0	0	0	0	0	0
2/23/2025 10:37	46803	HEPB_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/23/2025 10:37	46801	HEPB_T2	2	2	0	0.4	0.15	-0.25	0.55	0	0	0	0	0	0	0
2/23/2025 10:39	66504	SMAN_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/23/2025 10:39	66505	SMAN_T2	0	0	0	0	0	0	-0.26	-0.22	0	0	0	0	0	0
2/23/2025 10:39	44201	POIN_T1	71	86	15	0.19	0.23	0.04	-2.1	-2.11	0	0	0	0	0	0
2/23/2025 10:40	44201	POIN_T1	71	86	15	0.19	0.23	0.04	-2.1	-2.11	0	0	0	0	0	0
2/23/2025 10:40	65803	RTWN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/23/2025 10:40	65802	RTWN_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
2/23/2025 10:41	44201	POIN_T1	71	86	15	0.19	0.23	0.04	-10.49	-10.54	0	0	0	0	0	0
2/23/2025 10:42	42601	TUSC_T1	48	68	20	1.33	1.11	-0.22	-0.53	-0.5	0	0	0	0	0	0
2/23/2025 10:42	13302	ORVI_T2	1	2	1	0.2	0.3	0.1	1.42	1.46	0	0	0	0	0	0
2/23/2025 10:43	61304	EARL_T1	1	3	2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
2/23/2025 10:43	61303	EARL_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
2/23/2025 10:43	61302	EARL_T1	3	3	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
2/23/2025 10:43	42701	AUGU_T1	1	1	0	1	0.8	-0.2	0	0	1	1	0	1200	1200	0
2/23/2025 10:44	10801	CHHI_T1	1	7	6	0.8	0.49	-0.31	-2.18	-2.22	0	0	0	0	0	0
2/23/2025 10:45	61304	EARL_T1	3	1	-2	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
2/23/2025 10:45	61302	EARL_T1	3	3	0	0.5	0.33	-0.17	0.72	0.82	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/23/2025 10:46	17401	FOHI_T1	0	0	0	0	0	0	-0.94	-0.96	0	0	0	0	0	0
2/23/2025 10:46	46206	DANV_T2	2	2	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
2/23/2025 10:46	46203	DANV_T2	60	138	78	0.42	0.58	0.16	0	0	0	0	0	0	0	0
2/23/2025 10:46	46204	DANV_T2	1	8	7	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
2/23/2025 10:47	46204	DANV_T2	1	8	7	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
2/23/2025 10:47	46206	DANV_T2	2	2	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
2/23/2025 10:47	46203	DANV_T2	60	138	78	0.42	0.58	0.16	-2.25	-2.24	0	0	0	0	0	0
2/23/2025 10:48	46206	DANV_T2	2	2	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
2/23/2025 10:48	46204	DANV_T2	1	8	7	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
2/23/2025 10:48	46203	DANV_T2	60	138	78	0.42	0.58	0.16	0	0	0	0	0	0	0	0
2/23/2025 10:49	46206	DANV_T2	2	2	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
2/23/2025 10:49	46203	DANV_T2	60	138	78	0.42	0.58	0.16	-2.25	-2.24	0	0	0	0	0	0
2/23/2025 10:49	46204	DANV_T2	1	8	7	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
2/23/2025 10:50	13303	ORVI_T1	0	5	5	0	0.24	0.24	0.6	0.54	0	0	0	0	0	0
2/23/2025 10:50	55002	NEWP_T1	9	9	0	0.98	0.87	-0.11	0	0	0	0	0	0	0	0
2/23/2025 10:50	58101	NEKI_T1	2	2	0	0.9	0.95	0.05	0	0	0	0	0	0	0	0
2/23/2025 10:50	58102	NEKI_T1	2	2	0	0.75	0.8	0.05	-1.11	-1.04	0	0	0	0	0	0
2/23/2025 10:50	55001	NEWP_T1	1	3	2	0.4	0.17	-0.23	-0.39	-0.4	0	0	0	0	0	0
2/23/2025 10:52	64801	MONE_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
2/23/2025 10:52	64802	MONE_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
2/23/2025 10:53	64801	MONE_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
2/23/2025 10:53	64802	MONE_T2	0	3	3	0	0.37	0.37	-0.01	-0.01	0	0	0	0	0	0
2/23/2025 10:54	55001	NEWP_T1	1	3	2	0.4	0.17	-0.23	0	0	0	0	0	0	0	0
2/23/2025 10:54	13303	ORVI_T1	0	5	5	0	0.24	0.24	0.54	0.58	0	0	0	0	0	0
2/23/2025 10:54	55002	NEWP_T1	9	9	0	0.98	0.87	-0.11	-0.21	-0.17	0	0	0	0	0	0
2/23/2025 10:55	66502	SMAN_T2	0	1	1	0	0.1	0.1	-0.21	-0.21	0	0	0	0	0	0
2/23/2025 10:55	66504	SMAN_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
2/23/2025 10:57	46206	DANV_T2	2	2	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
2/23/2025 10:57	46203	DANV_T2	60	138	78	0.42	0.58	0.16	-2.24	-2.29	0	0	0	0	0	0
2/23/2025 10:57	46204	DANV_T2	1	8	7	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
2/23/2025 10:59	45501	DERR_T2	2	10	8	0.65	0.24	-0.41	-1.62	-1.66	0	0	0	0	0	0
2/23/2025 11:00	24105	EHAZ_T1	4	16	12	7.2	2.53	-4.67	0	0	0	0	0	0	0	0
2/23/2025 11:00	24103	EHAZ_T1	0	0	0	0	0	0	-1.33	-1.42	0	0	0	0	0	0
2/23/2025 11:00	24104	EHAZ_T1	1	2	1	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
2/23/2025 11:00	24102	EHAZ_T1	3	2	-1	1.07	0	-1.07	0	0	0	0	0	0	0	0
2/23/2025 11:00	24101	EHAZ_T1	35	37	2	1.47	0.67	-0.8	0	0	0	0	0	0	0	0
2/23/2025 11:01	45501	DERR_T2	3	20	17	0.43	0.24	-0.19	-0.81	-0.83	0	0	0	0	0	0
2/23/2025 11:01	44801	EDAN_T2	1	0	-1	0.2	0	-0.2	-0.86	0	0	0	0	0	0	0
2/23/2025 11:02	10401	LIGA_T1	18	46	28	0.23	0.29	0.06	0	0	0	0	0	0	0	0
2/23/2025 11:02	44801	EDAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/23/2025 11:14	60301	TWVA_T2	0	0	0	0	0	0	-1.8	-1.84	0	0	0	0	0	0
2/23/2025 11:14	59402	RFLD_T2	4	6	2	0.38	0.25	-0.13	-0.89	-0.9	0	0	0	0	0	0
2/23/2025 11:17	63802	HEMP_T1	4	7	3	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
2/23/2025 11:17	63803	HEMP_T1	6	8	2	0.17	0.26	0.09	0.49	0.47	0	0	0	0	0	0
2/23/2025 11:17	63801	HEMP_T1	11	13	2	0.36	0.39	0.03	0	0	0	0	0	0	0	0
2/23/2025 11:17	63804	HEMP_T1	1	2	1	5.7	2.9	-2.8	0	0	0	0	0	0	0	0
2/23/2025 11:18	63802	HEMP_T1	4	7	3	0.3	0.24	-0.06	0.22	0.39	0	0	0	0	0	0
2/23/2025 11:18	45702	LIND_T2	1	1	0	0.2	0.1	-0.1	-0.48	-0.48	0	0	0	0	0	0
2/23/2025 11:18	63803	HEMP_T1	6	8	2	0.17	0.26	0.09	0	0	0	0	0	0	0	0
2/23/2025 11:18	63804	HEMP_T1	1	2	1	5.7	2.9	-2.8	0	0	0	0	0	0	0	0
2/23/2025 11:18	65302	NBRI_T2	2	2	0	0.1	0.25	0.15	-1.47	-1.42	0	0	0	0	0	0
2/23/2025 11:18	63801	HEMP_T1	11	13	2	0.36	0.39	0.03	-0.31	-0.3	0	0	0	0	0	0
2/23/2025 11:18	45701	LIND_T2	0	0	0	0	0	0	-1.74	-1.74	0	0	0	0	0	0
2/23/2025 11:20	13302	ORVI_T2	4	8	4	0.6	0.36	-0.24	1.39	1.41	0	0	0	0	0	0
2/23/2025 11:21	65603	QVIL_T2	1	0	-1	0.1	0	-0.1	-0.01	-0.03	0	0	0	0	0	0
2/23/2025 11:21	65601	QVIL_T2	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
2/23/2025 11:21	65602	QVIL_T2	53	2	-51	0.67	0.35	-0.32	0	0	0	0	0	0	0	0
2/23/2025 11:24	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 11:25	66203	SISP_T2	2	2	0	0.85	0.7	-0.15	-0.96	-0.93	0	0	0	0	0	0
2/23/2025 11:27	41601	CLEV_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/23/2025 11:27	41602	CLEV_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/23/2025 11:28	41602	CLEV_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/23/2025 11:28	61001	DONV_T1	2	1	-1	1	1.1	0.1	-0.05	0.01	0	0	0	0	0	0
2/23/2025 11:28	10602	BLGL_T2	3	3	0	0.47	0.93	0.46	0.18	0.2	0	0	0	0	0	0
2/23/2025 11:28	42701	AUGU_T1	1	3	2	0.9	0.4	-0.5	0	0	1	1	0	1200	1200	0
2/23/2025 11:28	41601	CLEV_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/23/2025 11:28	40504	CRES_T1	1	3	2	1	0.57	-0.43	0	0	0	0	0	0	0	0
2/23/2025 11:28	40505	CRES_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/23/2025 11:29	45501	DERR_T2	10	22	12	0.22	0.22	0	-0.83	-0.82	0	0	0	0	0	0
2/23/2025 11:30	45501	DERR_T2	20	25	5	0.24	0.26	0.02	-0.83	-0.82	0	0	0	0	0	0
2/23/2025 11:30	10805	CHHI_T2	1	1	0	8	8.1	0.1	-1.17	-1.16	0	0	0	0	0	0
2/23/2025 11:30	41602	CLEV_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/23/2025 11:30	41601	CLEV_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
2/23/2025 11:31	28403	HART_T2	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
2/23/2025 11:32	52401	GRPA_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
2/23/2025 11:32	45003	LIME_2	1	1	0	4.1	4.3	0.2	0.2	0.22	0	0	0	0	0	0
2/23/2025 11:32	45001	LIME_2	48	59	11	0.36	0.29	-0.07	0	0	0	0	0	0	0	0
2/23/2025 11:32	52403	GRPA_T2	38	107	69	0.86	0.51	-0.35	-0.84	-0.84	0	0	0	0	0	0
2/23/2025 11:32	52402	GRPA_T2	11	12	1	0.6	0.66	0.06	0	0	0	0	0	0	0	0
2/23/2025 11:32	45002	LIME_2	1	2	1	5.2	2.9	-2.3	0	0	0	0	0	0	0	0
2/23/2025 11:33	20601	GRWO_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
2/23/2025 11:33	20603	GRWO_T2	2	6	4	1.2	0.2	-1	0	0	0	0	0	0	0	0
2/23/2025 11:34	45002	LIME_2	1	2	1	5.2	2.9	-2.3	0.56	0.56	0	0	0	0	0	0
2/23/2025 11:34	45003	LIME_2	1	1	0	4.1	4.3	0.2	0	0	0	0	0	0	0	0
2/23/2025 11:34	40901	JESH_T1	1	1	0	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
2/23/2025 11:34	40902	JESH_T1	0	0	0	0	0	0	-1.44	-1.37	0	0	0	0	0	0
2/23/2025 11:34	45001	LIME_2	48	59	11	0.36	0.29	-0.07	0	0	0	0	0	0	0	0
2/23/2025 11:34	65501	MOJO_T1	0	1	1	0	0.3	0.3	-1.26	-1.3	0	0	0	0	0	0
2/23/2025 11:35	52403	GRPA_T2	38	107	69	0.86	0.51	-0.35	-0.84	-0.84	0	0	0	0	0	0
2/23/2025 11:35	52401	GRPA_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
2/23/2025 11:35	52402	GRPA_T2	11	12	1	0.6	0.66	0.06	0	0	0	0	0	0	0	0
2/23/2025 11:38	44601	SALE_T2	0	0	0	0	0	0	-0.3	-0.24	0	0	0	0	0	0
2/23/2025 11:38	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 11:39	40902	JESH_T1	0	0	0	0	0	0	-1.37	-1.43	0	0	0	0	0	0
2/23/2025 11:39	40901	JESH_T1	1	1	0	1.8	1.5	-0.3	0	0	0	0	0	0	0	0
2/23/2025 11:39	44601	SALE_T2	0	0	0	0	0	0	-0.3	-0.24	0	0	0	0	0	0
2/23/2025 11:43	52402	GRPA_T2	11	12	1	0.6	0.66	0.06	0	0	0	0	0	0	0	0
2/23/2025 11:43	45501	DERR_T2	20	25	5	0.24	0.26	0.02	-0.82	-0.83	0	0	0	0	0	0
2/23/2025 11:43	52403	GRPA_T2	38	107	69	0.86	0.51	-0.35	-0.84	-0.85	0	0	0	0	0	0
2/23/2025 11:43	52401	GRPA_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
2/23/2025 11:43	41602	CLEV_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/23/2025 11:43	41601	CLEV_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
2/23/2025 11:44	12202	FOGE_T2	2	3	1	0.5	0.63	0.13	0	0	0	0	0	0	0	0
2/23/2025 11:44	41602	CLEV_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/23/2025 11:44	12206	FOGE_T2	0	0	0	0	0	0	-0.86	-0.81	0	0	0	0	0	0
2/23/2025 11:44	57205	ROSS_T1	3	1	-2	0.87	1.8	0.93	0.14	0.14	0	0	0	0	0	0
2/23/2025 11:44	24201	PROV_T3	3	5	2	6.03	5.97	-0.06	-1.39	-1.37	0	0	0	0	0	0
2/23/2025 11:44	24204	PROV_T3	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
2/23/2025 11:44	41601	CLEV_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
2/23/2025 11:45	44502	HAMI_T2	1	1	0	2.4	2.9	0.5	0	0	0	0	0	0	0	0
2/23/2025 11:45	40603	PIGR_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/23/2025 11:45	44503	HAMI_T2	0	0	0	0	0	0	-2.15	-2.19	0	0	0	0	0	0
2/23/2025 11:45	44505	HAMI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/23/2025 11:45	40602	PIGR_T1	0	0	0	0	0	0	0.55	0.61	0	0	0	0	0	0
2/23/2025 11:45	40601	PIGR_T1	4	14	10	0.45	0.42	-0.03	0	0	0	0	0	0	0	0
2/23/2025 11:45	45501	DERR_T2	10	49	39	0.25	0.45	0.2	-0.82	-0.83	0	0	0	0	0	0
2/23/2025 11:46	45501	DERR_T2	10	49	39	0.25	0.45	0.2	-0.82	-0.83	0	0	0	0	0	0
2/23/2025 11:46	41602	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/23/2025 11:46	41601	CLEV_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
2/23/2025 11:46	12202	FOGE_T2	2	6	4	0.3	0.5	0.2	-0.54	-0.58	0	0	0	0	0	0
2/23/2025 11:48	12202	FOGE_T2	2	6	4	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/23/2025 11:48	12206	FOGE_T2	0	0	0	0	0	0	-0.86	-0.81	0	0	0	0	0	0
2/23/2025 11:51	17002	RIRO_T2	1	2	1	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
2/23/2025 11:51	66203	SISP_T2	2	2	0	0.6	0.4	-0.2	-0.9	-0.98	0	0	0	0	0	0
2/23/2025 11:52	59002	MIFF_T1	5	6	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/23/2025 11:52	59001	MIFF_T1	8	12	4	0.28	0.37	0.09	0	0	0	0	0	0	0	0
2/23/2025 11:52	59003	MIFF_T1	3	3	0	0.47	0.53	0.06	0.29	0.29	0	0	0	0	0	0
2/23/2025 11:57	40504	CRES_T1	3	13	10	0.57	0.23	-0.34	0	0	0	0	0	0	0	0
2/23/2025 11:57	40505	CRES_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/23/2025 11:58	40505	CRES_T1	0	1	1	0	0.1	0.1	0.31	0.32	0	0	0	0	0	0
2/23/2025 11:58	40504	CRES_T1	3	13	10	0.57	0.23	-0.34	0	0	0	0	0	0	0	0
2/23/2025 11:58	15203	SFAR_T2	3	6	3	0.57	0.48	-0.09	0	0	0	0	0	0	0	0
2/23/2025 11:59	40504	CRES_T1	3	13	10	0.57	0.23	-0.34	0	0	0	0	0	0	0	0
2/23/2025 11:59	40505	CRES_T1	0	1	1	0	0.1	0.1	0.62	0.64	0	0	0	0	0	0
2/23/2025 12:00	44801	EDAN_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
2/23/2025 12:00	40504	CRES_T1	3	13	10	0.63	0.23	-0.4	0	0	0	0	0	0	0	0
2/23/2025 12:00	40505	CRES_T1	0	1	1	0	0.1	0.1	0.31	0.32	0	0	0	0	0	0
2/23/2025 12:01	40505	CRES_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/23/2025 12:01	40504	CRES_T1	3	13	10	0.63	0.23	-0.4	-1.92	-1.9	0	0	0	0	0	0
2/23/2025 12:02	53501	EVIL_T2	3	2	-1	0.53	0.6	0.07	-0.68	-0.73	0	0	0	0	0	0
2/23/2025 12:02	53502	EVIL_T2	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
2/23/2025 12:02	40504	CRES_T1	3	13	10	0.63	0.23	-0.4	0	0	0	0	0	0	0	0
2/23/2025 12:02	40505	CRES_T1	0	1	1	0	0.1	0.1	0.31	0.32	0	0	0	0	0	0
2/23/2025 12:04	64203	KINZ_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/23/2025 12:04	64202	KINZ_T1	1	1	0	0.2	0.3	0.1	0.73	0.71	0	0	0	0	0	0
2/23/2025 12:04	64204	KINZ_T1	68	73	5	0.76	0.94	0.18	0	0	0	0	0	0	0	0
2/23/2025 12:06	64204	KINZ_T1	68	73	5	0.76	0.94	0.18	0	0	0	0	0	0	0	0
2/23/2025 12:06	64202	KINZ_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/23/2025 12:06	64203	KINZ_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/23/2025 12:09	44601	SALE_T2	0	0	0	0	0	0	-0.27	-0.21	0	0	0	0	0	0
2/23/2025 12:10	44601	SALE_T2	0	0	0	0	0	0	-0.27	-0.21	0	0	0	0	0	0
2/23/2025 12:14	29401	BELT_T1	125	4	-121	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
2/23/2025 12:14	29402	BELT_T1	145	7	-138	0.51	1.73	1.22	0	0	0	0	0	0	0	0
2/23/2025 12:15	54505	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/23/2025 12:15	41801	GOCI_T2	48	10	-38	0.26	0.29	0.03	0	0	0	0	0	0	0	0
2/23/2025 12:15	54504	ENOL_T2	0	0	0	0	0	0	-1.06	-1.05	0	0	0	0	0	0
2/23/2025 12:16	61503	EPET_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/23/2025 12:16	54504	ENOL_T2	0	0	0	0	0	0	-1.06	-1.05	0	0	0	0	0	0
2/23/2025 12:16	44801	EDAN_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
2/23/2025 12:16	54505	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/23/2025 12:16	61502	EPET_T1	5	1	-4	0.2	0.7	0.5	-1.42	-1.44	0	0	0	0	0	0
2/23/2025 12:17	64203	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/23/2025 12:17	64202	KINZ_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/23/2025 12:17	52401	GRPA_T2	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
2/23/2025 12:17	52402	GRPA_T2	10	13	3	0.62	0.52	-0.1	0	0	0	0	0	0	0	0
2/23/2025 12:17	64204	KINZ_T1	70	74	4	0.82	1.03	0.21	0	0	0	0	0	0	0	0
2/23/2025 12:17	17802	GILB_T1	0	1	1	0	0.3	0.3	0.11	0.08	0	0	0	0	0	0
2/23/2025 12:17	52403	GRPA_T2	16	30	14	0.77	0.9	0.13	0	0	0	0	0	0	0	0
2/23/2025 12:17	41801	GOCI_T2	48	10	-38	0.26	0.29	0.03	0	0	0	0	0	0	0	0
2/23/2025 12:18	64202	KINZ_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/23/2025 12:18	64204	KINZ_T1	70	74	4	0.82	1.03	0.21	0	0	0	0	0	0	0	0
2/23/2025 12:18	64203	KINZ_T1	1	1	0	0.6	0.8	0.2	0.2	0.14	0	0	0	0	0	0
2/23/2025 12:19	41801	GOCI_T2	48	10	-38	0.26	0.29	0.03	0	0	0	0	0	0	0	0
2/23/2025 12:19	64802	MONE_T2	2	4	2	0.85	0.58	-0.27	0	0	0	0	0	0	0	0
2/23/2025 12:19	64801	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 12:20	13303	ORVI_T1	9	9	0	0.24	0.42	0.18	0	0	0	0	0	0	0	0
2/23/2025 12:22	52501	PROG_T1	4	3	-1	0.38	0.3	-0.08	-0.53	-0.53	0	0	0	0	0	0
2/23/2025 12:22	13303	ORVI_T1	9	9	0	0.24	0.42	0.18	1.11	1.07	0	0	0	0	0	0
2/23/2025 12:23	64802	MONE_T2	2	4	2	0.85	0.58	-0.27	0	0	0	0	0	0	0	0
2/23/2025 12:25	52501	PROG_T1	4	3	-1	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
2/23/2025 12:26	41601	CLEV_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/23/2025 12:26	41602	CLEV_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/23/2025 12:28	13302	ORVI_T2	13	12	-1	0.46	0.47	0.01	1.44	1.41	0	0	0	0	0	0
2/23/2025 12:29	29401	BELT_T1	4	4	0	0.1	0.13	0.03	0	0	0	0	0	0	0	0
2/23/2025 12:29	29402	BELT_T1	7	6	-1	1.7	1.78	0.08	0	0	0	0	0	0	0	0
2/23/2025 12:30	63801	HEMP_T1	2	3	1	0.45	0.57	0.12	0	0	0	0	0	0	0	0
2/23/2025 12:30	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
2/23/2025 12:30	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/23/2025 12:30	63804	HEMP_T1	1	1	0	6.4	6.1	-0.3	0	0	0	0	0	0	0	0
2/23/2025 12:31	45501	DERR_T2	45	24	-21	0.36	0.29	-0.07	-0.84	-0.85	0	0	0	0	0	0
2/23/2025 12:38	66203	SISP_T2	2	3	1	0.25	0.55	0.3	-2.92	-0.96	1	0	-1	600	0	-600
2/23/2025 12:38	66201	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 12:38	25502	MADI_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/23/2025 12:38	25503	MADI_T1	32	13	-19	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
2/23/2025 12:39	65205	PRIN_T1	1	2	1	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
2/23/2025 12:39	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/23/2025 12:42	41601	CLEV_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
2/23/2025 12:42	41602	CLEV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/23/2025 12:45	29402	BELT_T1	5	61	56	2.12	0.38	-1.74	0	0	0	0	0	0	0	0
2/23/2025 12:45	29401	BELT_T1	3	35	32	0.13	0.19	0.06	0	0	0	0	0	0	0	0
2/23/2025 12:46	45501	DERR_T2	12	23	11	0.28	0.3	0.02	-0.85	-0.83	0	0	0	0	0	0
2/23/2025 12:46	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/23/2025 12:46	62106	ELAN_T1	1	2	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
2/23/2025 12:46	62102	ELAN_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/23/2025 12:46	62101	ELAN_T1	0	0	0	0	0	0	1.6	1.56	0	0	0	0	0	0
2/23/2025 12:47	54504	ENOL_T2	0	0	0	0	0	0	-1.05	-1.06	0	0	0	0	0	0
2/23/2025 12:47	54505	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/23/2025 12:47	41305	FISH_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
2/23/2025 12:47	41301	FISH_T1	4	4	0	1.73	1.83	0.1	0	0	0	0	0	0	0	0
2/23/2025 12:48	26101	THRO_T1	0	0	0	0	0	0	-2.23	-2.27	0	0	0	0	0	0
2/23/2025 12:52	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/23/2025 12:52	66505	SMAN_T2	3	3	0	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
2/23/2025 12:52	66504	SMAN_T2	3	4	1	0.83	0.83	0	0	0	0	0	0	0	0	0
2/23/2025 12:52	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/23/2025 12:53	67402	WAKE_T2	1	3	2	0.2	0.53	0.33	-0.39	-0.37	0	0	0	0	0	0
2/23/2025 12:53	67401	WAKE_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/23/2025 12:54	67402	WAKE_T2	1	3	2	0.2	0.53	0.33	-0.39	-0.37	0	0	0	0	0	0
2/23/2025 12:54	67401	WAKE_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/23/2025 12:55	66505	SMAN_T2	3	3	0	0.23	0.17	-0.06	0	0	0	0	0	0	0	0
2/23/2025 12:55	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/23/2025 12:55	66504	SMAN_T2	3	4	1	0.83	0.83	0	-0.59	-0.51	0	0	0	0	0	0
2/23/2025 12:55	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/23/2025 12:56	29401	BELT_T1	3	35	32	0.13	0.19	0.06	0	0	0	0	0	0	0	0
2/23/2025 12:56	29402	BELT_T1	5	61	56	2.12	0.38	-1.74	0	0	0	0	0	0	0	0
2/23/2025 12:57	41601	CLEV_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/23/2025 12:57	41602	CLEV_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/23/2025 12:58	67401	WAKE_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/23/2025 12:58	41601	CLEV_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/23/2025 12:58	67402	WAKE_T2	1	3	2	0.2	0.53	0.33	0	0	0	0	0	0	0	0
2/23/2025 12:58	41602	CLEV_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/23/2025 12:59	41601	CLEV_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/23/2025 12:59	41602	CLEV_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/23/2025 13:00	16102	BING_T2	1	1	0	0.2	0.1	-0.1	0.04	0.01	0	0	0	0	0	0
2/23/2025 13:00	16103	BING_T2	1	2	1	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
2/23/2025 13:00	16101	BING_T2	2	2	0	0.15	0.55	0.4	0	0	0	0	0	0	0	0
2/23/2025 13:02	45001	LIME_2	6	47	41	0.2	0.2	0	0	0	0	0	0	0	0	0
2/23/2025 13:02	45003	LIME_2	1	1	0	3.9	4	0.1	0.2	0.23	0	0	0	0	0	0
2/23/2025 13:02	45002	LIME_2	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
2/23/2025 13:02	16101	BING_T2	2	2	0	0.15	0.55	0.4	0.4	0.4	0	0	0	0	0	0
2/23/2025 13:02	16103	BING_T2	1	2	1	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
2/23/2025 13:02	16102	BING_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/23/2025 13:06	13302	ORVI_T2	10	20	10	0.42	0.42	0	1.57	1.4	0	0	0	0	0	0
2/23/2025 13:07	57403	SPAN_T1	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
2/23/2025 13:07	57401	SPAN_T1	2	3	1	0.3	0.3	0	-1.14	-1.18	0	0	0	0	0	0
2/23/2025 13:08	13302	ORVI_T2	10	20	10	0.42	0.42	0	2.79	2.53	0	0	0	0	0	0
2/23/2025 13:09	57403	SPAN_T1	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
2/23/2025 13:09	57401	SPAN_T1	2	3	1	0.3	0.3	0	0	0	0	0	0	0	0	0
2/23/2025 13:10	46004	BERW_T2	0	1	1	0	0	0	-0.76	-0.77	0	0	0	0	0	0
2/23/2025 13:11	57401	SPAN_T1	2	3	1	0.3	0.3	0	0	0	0	0	0	0	0	0
2/23/2025 13:11	57403	SPAN_T1	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
2/23/2025 13:12	46002	BERW_T2	0	0	0	0	0	0	-1.37	-1.47	0	0	0	0	0	0
2/23/2025 13:12	45501	DERR_T2	23	0	-23	0.3	0	-0.3	-0.84	-0.88	0	0	0	0	0	0
2/23/2025 13:12	46004	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 13:12	41602	CLEV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/23/2025 13:12	41601	CLEV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/23/2025 13:13	41601	CLEV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/23/2025 13:13	46004	BERW_T2	0	1	1	0	0	0	-0.76	-0.77	0	0	0	0	0	0
2/23/2025 13:13	41602	CLEV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/23/2025 13:14	53501	EVIL_T2	2	2	0	0.35	1.3	0.95	0	0	0	0	0	0	0	0
2/23/2025 13:14	53502	EVIL_T2	0	0	0	0	0	0	0.63	0.76	0	0	0	0	0	0
2/23/2025 13:15	46004	BERW_T2	1	1	0	0.1	0	-0.1	-0.76	-0.77	0	0	0	0	0	0
2/23/2025 13:15	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 13:22	62102	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/23/2025 13:22	62103	ELAN_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/23/2025 13:22	62106	ELAN_T1	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
2/23/2025 13:23	65602	QVIL_T2	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
2/23/2025 13:23	65603	QVIL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/23/2025 13:23	67401	WAKE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/23/2025 13:23	65601	QVIL_T2	1	3	2	0.2	0.37	0.17	0	0	0	0	0	0	0	0
2/23/2025 13:23	67402	WAKE_T2	3	4	1	0.53	0.23	-0.3	-0.4	-0.42	0	0	0	0	0	0
2/23/2025 13:24	13302	ORVI_T2	12	22	10	0.45	0.38	-0.07	1.27	1.19	0	0	0	0	0	0
2/23/2025 13:25	57403	SPAN_T1	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
2/23/2025 13:25	67402	WAKE_T2	3	4	1	0.53	0.23	-0.3	-0.4	-0.42	0	0	0	0	0	0
2/23/2025 13:25	67401	WAKE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/23/2025 13:25	57401	SPAN_T1	2	3	1	0.35	0.17	-0.18	0	0	0	0	0	0	0	0
2/23/2025 13:26	67401	WAKE_T2	1	0	-1	0.2	0	-0.2	-0.94	-0.94	0	0	0	0	0	0
2/23/2025 13:26	67402	WAKE_T2	3	4	1	0.53	0.23	-0.3	0	0	0	0	0	0	0	0
2/23/2025 13:29	62605	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 13:29	62607	ENGL_T1	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
2/23/2025 13:29	45501	DERR_T2	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
2/23/2025 13:30	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 13:30	45501	DERR_T2	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
2/23/2025 13:31	66203	SISP_T2	1	1	0	1.2	0.2	-1	-0.99	-0.95	0	0	0	0	0	0
2/23/2025 13:31	20601	GRWO_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
2/23/2025 13:40	44301	BEAV_T2	3	1	-2	0.3	0.2	-0.1	-0.84	-0.81	0	0	0	0	0	0
2/23/2025 13:40	44302	BEAV_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/23/2025 13:50	41902	REED_T1	0	1	1	0	0	0	0.01	-0.02	0	0	0	0	0	0
2/23/2025 13:52	41902	REED_T1	0	1	1	0	0	0	-0.02	-0.03	0	0	0	0	0	0
2/23/2025 13:52	13302	ORVI_T2	19	16	-3	0.37	0.38	0.01	1.27	1.32	0	0	0	0	0	0
2/23/2025 13:55	65602	QVIL_T2	1	2	1	0.4	0.25	-0.15	0.04	0.06	0	0	0	0	0	0
2/23/2025 13:55	41902	REED_T1	0	1	1	0	0	0	-0.02	-0.03	0	0	0	0	0	0
2/23/2025 13:55	65601	QVIL_T2	3	4	1	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
2/23/2025 13:59	40101	HUNT_T2	6	13	7	0.88	0.83	-0.05	-1.52	-1.52	0	0	0	0	0	0
2/23/2025 14:02	47201	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 14:02	47203	FAXO_T2	0	0	0	0	0	0	-1.75	0	0	0	0	0	0	0
2/23/2025 14:06	64801	MONE_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
2/23/2025 14:06	64802	MONE_T2	3	3	0	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
2/23/2025 14:07	64802	MONE_T2	3	3	0	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
2/23/2025 14:07	64801	MONE_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
2/23/2025 14:08	55001	NEWP_T1	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
2/23/2025 14:08	55002	NEWP_T1	5	6	1	0.4	0.62	0.22	0	0	0	0	0	0	0	0
2/23/2025 14:09	55002	NEWP_T1	5	6	1	0.4	0.62	0.22	0	0	0	0	0	0	0	0
2/23/2025 14:09	55001	NEWP_T1	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
2/23/2025 14:12	10903	COOP_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/23/2025 14:21	58402	MORO_T1	0	0	0	0	0	0	-0.49	-0.49	1	1	0	600	600	0
2/23/2025 14:25	57403	SPAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/23/2025 14:25	57401	SPAN_T1	3	2	-1	0.23	0.2	-0.03	-1.2	-1.05	0	0	0	0	0	0
2/23/2025 14:26	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 14:26	57401	SPAN_T1	3	2	-1	0.23	0.2	-0.03	-2.4	-2.1	0	0	0	0	0	0
2/23/2025 14:26	57403	SPAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/23/2025 14:26	41602	CLEV_T1	2	1	-1	1	0	-1	0	0	0	0	0	0	0	0
2/23/2025 14:27	57401	SPAN_T1	3	2	-1	0.23	0.2	-0.03	-1.2	-1.05	0	0	0	0	0	0
2/23/2025 14:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 14:27	57403	SPAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/23/2025 14:27	41602	CLEV_T1	2	1	-1	1	0	-1	0	0	0	0	0	0	0	0
2/23/2025 14:28	41602	CLEV_T1	2	1	-1	1	0	-1	0	0	0	0	0	0	0	0
2/23/2025 14:28	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 14:31	64201	KINZ_T1	0	0	0	0	0	0	0.59	0.39	0	0	0	0	0	0
2/23/2025 14:31	64204	KINZ_T1	68	69	1	1.11	1.12	0.01	0	0	0	0	0	0	0	0
2/23/2025 14:33	57403	SPAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/23/2025 14:33	64201	KINZ_T1	0	0	0	0	0	0	0.59	0.39	0	0	0	0	0	0
2/23/2025 14:33	57401	SPAN_T1	2	2	0	0.2	0.15	-0.05	-1.2	-1.05	0	0	0	0	0	0
2/23/2025 14:33	64204	KINZ_T1	68	69	1	1.11	1.12	0.01	0	0	0	0	0	0	0	0
2/23/2025 14:40	54601	SUMM_T2	2	1	-1	0.5	0.3	-0.2	-1.82	-1.86	0	0	0	0	0	0
2/23/2025 14:42	41602	CLEV_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/23/2025 14:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/23/2025 14:43	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 14:43	61304	EARL_T1	1	0	-1	0.1	0	-0.1	-1.07	-1.08	0	0	0	0	0	0
2/23/2025 14:43	41602	CLEV_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/23/2025 14:44	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 14:44	41602	CLEV_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/23/2025 14:51	44202	POIN_T2	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
2/23/2025 14:54	44201	POIN_T1	1	0	-1	0.1	0	-0.1	-2.09	-2.09	0	0	0	0	0	0
2/23/2025 14:55	44202	POIN_T2	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
2/23/2025 15:32	62105	ELAN_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
2/23/2025 15:33	62105	ELAN_T1	0	0	0	0	0	0	0.37	0.39	0	0	0	0	0	0
2/23/2025 15:58	13905	SEID_T1	0	0	0	0	0	0	-1.03	-1.02	1	1	0	1200	1200	0
2/23/2025 15:58	13904	SEID_T1	22	21	-1	1.01	0.98	-0.03	0	0	0	0	0	0	0	0
2/23/2025 16:06	12202	FOGE_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
2/23/2025 16:21	45001	LIME_2	3	3	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
2/23/2025 16:21	45002	LIME_2	1	1	0	3.8	4.4	0.6	0	0	0	0	0	0	0	0
2/23/2025 16:21	45003	LIME_2	3	3	0	1.37	1.5	0.13	0.3	0.27	0	0	0	0	0	0
2/23/2025 16:30	20601	GRWO_T2	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
2/23/2025 16:40	60301	TWVA_T2	0	0	0	0	0	0	-3.87	-3.79	0	0	0	0	0	0
2/23/2025 16:57	59102	WALK_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/23/2025 16:59	59102	WALK_T2	4	0	-4	0.1	0	-0.1	0.24	0.25	0	0	0	0	0	0
2/23/2025 19:07	54601	SUMM_T2	0	0	0	0	0	0	-1.61	-1.67	0	0	0	0	0	0
2/23/2025 19:08	64101	REFR_T1	0	0	0	0	0	0	-0.05	-0.02	0	0	0	0	0	0
2/23/2025 19:11	52502	PROG_T2	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
2/23/2025 19:12	64101	REFR_T1	0	0	0	0	0	0	-0.1	-0.04	0	0	0	0	0	0
2/23/2025 19:12	15201	SFAR_T1	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
2/23/2025 19:19	23001	SAJO_T1	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
2/23/2025 19:22	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
2/23/2025 19:23	55001	NEWP_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
2/23/2025 19:23	55002	NEWP_T1	0	2	2	0	0.2	0.2	-0.22	-0.21	0	0	0	0	0	0
2/23/2025 19:24	46206	DANV_T2	11	12	1	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
2/23/2025 19:24	46203	DANV_T2	5	8	3	0.3	0.26	-0.04	-2.16	-2.14	0	0	0	0	0	0
2/23/2025 19:24	46204	DANV_T2	8	22	14	0.35	0.26	-0.09	0	0	0	0	0	0	0	0
2/23/2025 19:36	15405	WALL_T1	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
2/23/2025 19:39	40201	BEGA_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/23/2025 19:44	17805	GILB_T2	0	0	0	0	0	0	-0.86	0.06	0	0	0	0	0	0
2/23/2025 19:46	46002	BERW_T2	0	0	0	0	0	0	-1.46	-1.47	0	0	0	0	0	0
2/23/2025 19:46	46004	BERW_T2	6	2	-4	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
2/23/2025 19:47	46206	DANV_T2	11	12	1	0.65	0.23	-0.42	1.41	1.43	0	0	0	0	0	0
2/23/2025 19:47	45501	DERR_T2	3	5	2	0.67	0.38	-0.29	-0.73	-0.71	0	0	0	0	0	0
2/23/2025 19:47	46203	DANV_T2	8	9	1	0.26	0.21	-0.05	0	0	0	0	0	0	0	0
2/23/2025 19:47	46204	DANV_T2	21	6	-15	0.34	0	-0.34	0	0	0	0	0	0	0	0
2/23/2025 19:48	41602	CLEV_T1	0	9	9	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:48	29402	BELT_T1	3	4	1	3.07	2.4	-0.67	0	0	0	0	0	0	0	0
2/23/2025 19:48	17802	GILB_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
2/23/2025 19:48	17805	GILB_T2	0	1	1	0	0	0	-0.86	0.06	0	0	0	0	0	0
2/23/2025 19:48	17804	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:48	29401	BELT_T1	92	96	4	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
2/23/2025 19:48	45501	DERR_T2	3	5	2	0.67	0.38	-0.29	-0.73	-0.71	0	0	0	0	0	0
2/23/2025 19:49	55002	NEWP_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/23/2025 19:49	46206	DANV_T2	11	12	1	0.65	0.23	-0.42	0	0	0	0	0	0	0	0
2/23/2025 19:49	46204	DANV_T2	21	6	-15	0.34	0	-0.34	0	0	0	0	0	0	0	0
2/23/2025 19:49	55001	NEWP_T1	1	1	0	0.8	0	-0.8	-1.01	-1.02	1	1	0	600	600	0
2/23/2025 19:49	40504	CRES_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/23/2025 19:49	46203	DANV_T2	8	9	1	0.26	0.21	-0.05	-2.14	-2.16	0	0	0	0	0	0
2/23/2025 19:49	40505	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:51	44201	POIN_T1	45	48	3	0.16	0.17	0.01	-2.03	-1.87	0	0	0	0	0	0
2/23/2025 19:51	40201	BEGA_T2	2	7	5	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/23/2025 19:52	10602	BLGL_T2	1	1	0	9.5	9.8	0.3	0.23	0.24	0	0	0	0	0	0
2/23/2025 19:52	40101	HUNT_T2	16	16	0	1.05	1.16	0.11	-2.01	-1.97	0	0	0	0	0	0
2/23/2025 19:52	13302	ORVI_T2	0	0	0	0	0	0	1.72	1.47	0	0	0	0	0	0
2/23/2025 19:52	46204	DANV_T2	21	6	-15	0.34	0	-0.34	0	0	0	0	0	0	0	0
2/23/2025 19:52	29401	BELT_T1	92	96	4	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
2/23/2025 19:52	10801	CHHI_T1	0	0	0	0	0	0	-2.09	-2.13	1	1	0	600	600	0
2/23/2025 19:52	29402	BELT_T1	3	4	1	3.07	2.4	-0.67	0	0	0	0	0	0	0	0
2/23/2025 19:52	55001	NEWP_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
2/23/2025 19:52	46206	DANV_T2	11	12	1	0.65	0.23	-0.42	0	0	0	0	0	0	0	0
2/23/2025 19:52	44601	SALE_T2	0	0	0	0	0	0	-0.14	-0.18	0	0	0	0	0	0
2/23/2025 19:52	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:52	46203	DANV_T2	8	9	1	0.26	0.21	-0.05	-2.16	-2.13	0	0	0	0	0	0
2/23/2025 19:52	57401	SPAN_T1	0	0	0	0	0	0	-1	-1.33	0	0	0	0	0	0
2/23/2025 19:52	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:52	55002	NEWP_T1	2	0	-2	0.2	0	-0.2	-0.24	-0.23	0	0	0	0	0	0
2/23/2025 19:52	12206	FOGE_T2	0	0	0	0	0	0	-0.88	-0.82	0	0	0	0	0	0
2/23/2025 19:52	61506	EPET_T2	0	0	0	0	0	0	-1.3	-1.26	0	0	0	0	0	0
2/23/2025 19:53	40902	JESH_T1	0	0	0	0	0	0	-1.4	-1.39	0	0	0	0	0	0
2/23/2025 19:53	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
2/23/2025 19:53	40201	BEGA_T2	2	7	5	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/23/2025 19:53	40901	JESH_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
2/23/2025 19:53	46803	HEPB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:53	44801	EDAN_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/23/2025 19:53	44201	POIN_T1	45	48	3	0.16	0.17	0.01	-4.05	-3.75	0	0	0	0	0	0
2/23/2025 19:53	44503	HAMI_T2	0	0	0	0	0	0	-2.08	-2.07	0	0	0	0	0	0
2/23/2025 19:53	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:53	46801	HEPB_T2	2	2	0	0.15	0.4	0.25	0	0	0	0	0	0	0	0
2/23/2025 19:53	41602	CLEV_T1	0	9	9	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:53	67402	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:53	29402	BELT_T1	3	4	1	3.07	2.4	-0.67	0	0	0	0	0	0	0	0
2/23/2025 19:53	40903	JESH_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:53	45701	LIND_T2	0	0	0	0	0	0	-1.75	-1.76	0	0	0	0	0	0
2/23/2025 19:53	65802	RTWN_T2	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
2/23/2025 19:53	45501	DERR_T2	3	5	2	0.67	0.38	-0.29	-1.41	-1.46	0	0	0	0	0	0
2/23/2025 19:53	29401	BELT_T1	92	96	4	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
2/23/2025 19:54	46204	DANV_T2	21	6	-15	0.34	0	-0.34	0	0	0	0	0	0	0	0
2/23/2025 19:54	55001	NEWP_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
2/23/2025 19:54	15203	SFAR_T2	0	0	0	0	0	0	-1.27	-1.28	0	0	0	0	0	0
2/23/2025 19:54	61302	EARL_T1	0	0	0	0	0	0	0.75	0.72	0	0	0	0	0	0
2/23/2025 19:54	25501	MADI_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
2/23/2025 19:54	55002	NEWP_T1	2	0	-2	0.2	0	-0.2	-0.24	-0.23	0	0	0	0	0	0
2/23/2025 19:54	10401	LIGA_T1	9	21	12	0.14	0.19	0.05	0	0	0	0	0	0	0	0
2/23/2025 19:54	16101	BING_T2	0	0	0	0	0	0	0.49	0.52	0	0	0	0	0	0
2/23/2025 19:54	16102	BING_T2	0	0	0	0	0	0	0.01	-0.04	0	0	0	0	0	0
2/23/2025 19:54	47802	MOCA_T2	0	1	1	0	0	0	-1	-1	0	0	0	0	0	0
2/23/2025 19:54	46203	DANV_T2	8	9	1	0.26	0.21	-0.05	0	0	0	0	0	0	0	0
2/23/2025 19:54	63601	LETO_T1	0	0	0	0	0	0	0.01	-0.36	0	0	0	0	0	0
2/23/2025 19:54	46206	DANV_T2	11	12	1	0.65	0.23	-0.42	1.43	1.41	0	0	0	0	0	0
2/23/2025 19:54	46004	BERW_T2	6	2	-4	0.9	0.1	-0.8	-0.78	-0.73	0	0	0	0	0	0
2/23/2025 19:54	64403	LAND_T1	0	0	0	0	0	0	-2.02	-1.99	0	0	0	0	0	0
2/23/2025 19:54	25503	MADI_T1	8	50	42	0.14	0.2	0.06	0	0	0	0	0	0	0	0
2/23/2025 19:54	13302	ORVI_T2	0	0	0	0	0	0	1.72	1.47	0	0	0	0	0	0
2/23/2025 19:54	67402	WAKE_T2	0	0	0	0	0	0	-0.43	-0.4	0	0	0	0	0	0
2/23/2025 19:55	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/23/2025 19:55	46206	DANV_T2	11	12	1	0.65	0.23	-0.42	0	0	0	0	0	0	0	0
2/23/2025 19:55	47802	MOCA_T2	0	1	1	0	0	0	-1	-1	0	0	0	0	0	0
2/23/2025 19:55	46203	DANV_T2	8	9	1	0.26	0.21	-0.05	-2.16	-2.13	0	0	0	0	0	0
2/23/2025 19:55	65206	PRIN_T4	1	2	1	0.8	6.8	6	0	0	0	0	0	0	0	0
2/23/2025 19:55	65207	PRIN_T4	2	4	2	4.8	4.2	-0.6	0	0	0	0	0	0	0	0
2/23/2025 19:55	45003	LIME_2	4	7	3	1.03	1.43	0.4	0	0	0	0	0	0	0	0
2/23/2025 19:55	64801	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:55	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:55	46204	DANV_T2	21	6	-15	0.34	0	-0.34	0	0	0	0	0	0	0	0
2/23/2025 19:55	45001	LIME_2	2	3	1	1.8	1.45	-0.35	0	0	0	0	0	0	0	0
2/23/2025 19:55	62105	ELAN_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
2/23/2025 19:55	66504	SMAN_T2	1	1	0	0.3	0.1	-0.2	-0.42	-0.44	0	0	0	0	0	0
2/23/2025 19:55	45002	LIME_2	1	1	0	3.9	4.6	0.7	0.63	0.6	0	0	0	0	0	0
2/23/2025 19:55	64203	KINZ_T1	0	0	0	0	0	0	-0.5	-0.47	1	1	0	600	600	0
2/23/2025 19:55	65603	QVIL_T2	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
2/23/2025 19:55	64204	KINZ_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
2/23/2025 19:55	44201	POIN_T1	45	48	3	0.16	0.17	0.01	-2.03	-1.87	0	0	0	0	0	0
2/23/2025 19:55	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:56	44801	EDAN_T2	1	1	0	0.4	0.2	-0.2	-0.42	-0.46	0	0	0	0	0	0
2/23/2025 19:56	13904	SEID_T1	21	33	12	0.3	0.63	0.33	0	0	0	0	0	0	0	0
2/23/2025 19:56	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:56	13303	ORVI_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
2/23/2025 19:56	40505	CRES_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
2/23/2025 19:56	46203	DANV_T2	8	9	1	0.26	0.21	-0.05	-2.16	-2.13	0	0	0	0	0	0
2/23/2025 19:56	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:56	42701	AUGU_T1	1	3	2	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
2/23/2025 19:56	46206	DANV_T2	11	12	1	0.65	0.23	-0.42	0	0	0	0	0	0	0	0
2/23/2025 19:56	44601	SALE_T2	0	0	0	0	0	0	-0.14	-0.18	0	0	0	0	0	0
2/23/2025 19:56	13905	SEID_T1	0	0	0	0	0	0	-0.95	-0.97	1	1	0	1200	1200	0
2/23/2025 19:56	44201	POIN_T1	45	48	3	0.16	0.17	0.01	-2.03	-1.87	0	0	0	0	0	0
2/23/2025 19:56	61303	EARL_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
2/23/2025 19:56	10801	CHHI_T1	0	0	0	0	0	0	-2.09	-2.13	1	1	0	600	600	0
2/23/2025 19:56	46204	DANV_T2	21	6	-15	0.34	0	-0.34	0	0	0	0	0	0	0	0
2/23/2025 19:56	17401	FOHI_T1	0	0	0	0	0	0	-0.95	-0.97	0	0	0	0	0	0
2/23/2025 19:56	45501	DERR_T2	3	5	2	0.67	0.38	-0.29	-0.71	-0.73	0	0	0	0	0	0
2/23/2025 19:56	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:56	62106	ELAN_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
2/23/2025 19:56	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:56	66202	SISP_T2	0	0	0	0	0	0	-0.85	-0.97	0	0	0	0	0	0
2/23/2025 19:56	40504	CRES_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/23/2025 19:57	62606	ENGL_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:57	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	-0.5	-0.5	0	0	0	0	0	0
2/23/2025 19:57	41602	CLEV_T1	0	9	9	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:57	22602	KIMB_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
2/23/2025 19:57	55002	NEWP_T1	2	0	-2	0.2	0	-0.2	-0.24	-0.23	0	0	0	0	0	0
2/23/2025 19:57	44301	BEAV_T2	2	3	1	1.55	0.95	-0.6	-0.98	-0.96	0	0	0	0	0	0
2/23/2025 19:57	60201	ATGL_T2	0	0	0	0	0	0	-0.37	-0.46	0	0	0	0	0	0
2/23/2025 19:57	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:57	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:57	40201	BEGA_T2	2	7	5	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/23/2025 19:57	55001	NEWP_T1	1	1	0	0.8	0	-0.8	-1.02	-1	1	1	0	600	600	0
2/23/2025 19:57	65602	QVIL_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/23/2025 19:57	57401	SPAN_T1	0	0	0	0	0	0	-1	-1.33	0	0	0	0	0	0
2/23/2025 19:57	62607	ENGL_T1	0	0	0	0	0	0	-1	-1.02	0	0	0	0	0	0
2/23/2025 19:57	66504	SMAN_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/23/2025 19:57	42701	AUGU_T1	1	3	2	0.3	0.17	-0.13	0	0	2	2	0	2400	2400	0
2/23/2025 19:57	64204	KINZ_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
2/23/2025 19:57	64402	LAND_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
2/23/2025 19:57	64201	KINZ_T1	0	0	0	0	0	0	-0.78	-0.58	2	2	0	1200	1200	0
2/23/2025 19:57	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:58	44801	EDAN_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/23/2025 19:58	13302	ORVI_T2	0	0	0	0	0	0	3.45	2.95	0	0	0	0	0	0
2/23/2025 19:58	15203	SFAR_T2	0	0	0	0	0	0	-1.27	-1.28	0	0	0	0	0	0
2/23/2025 19:58	46206	DANV_T2	11	12	1	0.65	0.23	-0.42	0	0	0	0	0	0	0	0
2/23/2025 19:58	40504	CRES_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/23/2025 19:58	61304	EARL_T1	0	0	0	0	0	0	-1.04	-1.05	0	0	0	0	0	0
2/23/2025 19:58	42601	TUSC_T1	1	8	7	0.1	0	-0.1	-1.25	-1.23	0	0	0	0	0	0
2/23/2025 19:58	26101	THRO_T1	0	0	0	0	0	0	-2.3	-2.42	0	0	0	0	0	0
2/23/2025 19:58	40902	JESH_T1	0	0	0	0	0	0	-1.4	-1.39	0	0	0	0	0	0
2/23/2025 19:58	13303	ORVI_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
2/23/2025 19:58	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:58	52501	PROG_T1	250	178	-72	0.38	0.21	-0.17	-0.85	-0.51	1	0	-1	300	0	-300
2/23/2025 19:58	60801	BUCK_T1	0	0	0	0	0	0	-1.78	-1.8	2	2	0	1200	1200	0
2/23/2025 19:58	44202	POIN_T2	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
2/23/2025 19:58	66504	SMAN_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/23/2025 19:58	64204	KINZ_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
2/23/2025 19:58	54504	ENOL_T2	0	0	0	0	0	0	-1.03	-1.01	0	0	0	0	0	0
2/23/2025 19:58	45501	DERR_T2	3	5	2	0.67	0.38	-0.29	-0.71	-0.73	0	0	0	0	0	0
2/23/2025 19:58	40903	JESH_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:58	59402	RFLD_T2	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
2/23/2025 19:58	46203	DANV_T2	8	9	1	0.26	0.21	-0.05	-2.16	-2.13	0	0	0	0	0	0
2/23/2025 19:58	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/23/2025 19:58	52504	PROG_T1	25	1	-24	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
2/23/2025 19:58	10801	CHIH_T1	0	0	0	0	0	0	-2.09	-2.13	1	1	0	600	600	0
2/23/2025 19:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:58	67402	WAKE_T2	0	0	0	0	0	0	-0.43	-0.4	0	0	0	0	0	0
2/23/2025 19:58	46204	DANV_T2	21	6	-15	0.34	0	-0.34	0	0	0	0	0	0	0	0
2/23/2025 19:58	40901	JESH_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
2/23/2025 19:58	64202	KINZ_T1	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
2/23/2025 19:58	58102	NEKI_T1	1	1	0	0.4	0.3	-0.1	-1.25	-1.2	0	0	0	0	0	0
2/23/2025 19:58	41602	CLEV_T1	0	9	9	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:58	45702	LIND_T2	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
2/23/2025 19:58	64201	KINZ_T1	0	0	0	0	0	0	-0.78	-0.58	2	2	0	1200	1200	0
2/23/2025 19:58	46004	BERW_T2	6	2	-4	0.9	0.1	-0.8	-0.78	-0.73	0	0	0	0	0	0
2/23/2025 19:58	65601	QVIL_T2	0	0	0	0	0	0	-1.19	-1.18	1	1	0	900	900	0
2/23/2025 19:58	64801	MONE_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
2/23/2025 19:59	40504	CRES_T1	1	0	-1	0.1	0	-0.1	-2.01	-1.99	0	0	0	0	0	0
2/23/2025 19:59	67402	WAKE_T2	0	0	0	0	0	0	-0.43	-0.4	0	0	0	0	0	0
2/23/2025 19:59	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
2/23/2025 19:59	42701	AUGU_T1	1	3	2	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
2/23/2025 19:59	63804	HEMP_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
2/23/2025 19:59	60201	ATGL_T2	0	0	0	0	0	0	-0.37	-0.46	0	0	0	0	0	0
2/23/2025 19:59	57205	ROSS_T1	0	0	0	0	0	0	-0.88	-0.87	1	1	0	900	900	0
2/23/2025 19:59	67203	TEHI_T1	1	1	0	0.4	0	-0.4	1.14	1.06	0	0	0	0	0	0
2/23/2025 19:59	22602	KIMB_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
2/23/2025 19:59	60301	TWVA_T2	0	0	0	0	0	0	-3.62	-3.74	0	0	0	0	0	0
2/23/2025 19:59	47203	FAXO_T2	0	1	1	0	0	0	-1.73	-1.73	0	0	0	0	0	0
2/23/2025 19:59	40505	CRES_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
2/23/2025 19:59	63803	HEMP_T1	0	0	0	0	0	0	0.45	0.43	0	0	0	0	0	0
2/23/2025 19:59	62105	ELAN_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
2/23/2025 19:59	59003	MIFF_T1	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
2/23/2025 19:59	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 19:59	64801	MONE_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
2/23/2025 20:00	10805	CHIH_T2	9	7	-2	1.48	2.07	0.59	-1.06	-1.11	0	0	0	0	0	0
2/23/2025 20:00	64201	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 20:00	64204	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
2/23/2025 20:00	65205	PRIN_T1	2	1	-1	2.8	0.9	-1.9	0	0	0	0	0	0	0	0
2/23/2025 20:00	61001	DONV_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
2/23/2025 20:00	66504	SMAN_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
2/23/2025 20:00	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
2/23/2025 20:00	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 20:00	52402	GRPA_T2	2	15	13	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
2/23/2025 20:00	52401	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/23/2025 20:00	46801	HEPB_T2	2	2	0	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
2/23/2025 20:00	52504	PROG_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/23/2025 20:00	44801	EDAN_T2	2	1	-1	3.25	0.1	-3.15	-0.42	-0.46	0	0	0	0	0	0
2/23/2025 20:00	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/23/2025 20:00	66502	SMAN_T2	0	0	0	0	0	0	-0.34	-0.22	0	0	0	0	0	0
2/23/2025 20:00	52501	PROG_T1	178	59	-119	0.21	0.11	-0.1	0	0	0	0	0	0	0	0
2/23/2025 20:00	46803	HEPB_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
2/23/2025 20:00	52403	GRPA_T2	4	2	-2	0.65	0.75	0.1	0	0	0	0	0	0	0	0
2/23/2025 20:00	40201	BEGA_T2	2	7	5	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/23/2025 20:01	59003	MIFF_T1	0	1	1	0	0.1	0.1	-0.74	-0.73	0	0	0	0	0	0
2/23/2025 20:01	46203	DANV_T2	9	8	-1	0.2	0.16	-0.04	0	0	0	0	0	0	0	0
2/23/2025 20:01	59002	MIFF_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/23/2025 20:01	45003	LIME_2	3	8	5	1.4	0.85	-0.55	0	0	0	0	0	0	0	0
2/23/2025 20:01	63804	HEMP_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
2/23/2025 20:01	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/23/2025 20:01	64801	MONE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 20:01	46206	DANV_T2	11	6	-5	0.45	0	-0.45	1.43	1.41	0	0	0	0	0	0
2/23/2025 20:01	45001	LIME_2	2	3	1	1.45	0.97	-0.48	0	0	0	0	0	0	0	0
2/23/2025 20:01	63801	HEMP_T1	0	0	0	0	0	0	-0.34	-0.3	0	0	0	0	0	0
2/23/2025 20:01	46204	DANV_T2	3	6	3	0.17	0.2	0.03	0	0	0	0	0	0	0	0
2/23/2025 20:01	45002	LIME_2	1	1	0	4	4.6	0.6	0	0	0	0	0	0	0	0
2/23/2025 20:01	40505	CRES_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
2/23/2025 20:01	40101	HUNT_T2	16	16	0	1.16	0.96	-0.2	0	0	0	0	0	0	0	0
2/23/2025 20:02	14401	SSLA_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 20:02	59102	WALK_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 20:02	20601	GRWO_T2	3	3	0	1.17	0.97	-0.2	-0.19	-0.18	0	0	0	0	0	0
2/23/2025 20:02	40505	CRES_T1	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
2/23/2025 20:02	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 20:02	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 20:02	14403	SSLA_T1	6	9	3	0.42	0.38	-0.04	0.76	0.75	0	0	0	0	0	0
2/23/2025 20:02	46801	HEPB_T2	2	2	0	0.4	0.25	-0.15	0.59	0.58	0	0	0	0	0	0
2/23/2025 20:02	12206	FOGE_T2	0	0	0	0	0	0	-0.88	-0.82	0	0	0	0	0	0
2/23/2025 20:02	45501	DERR_T2	5	4	-1	0.84	0.1	-0.74	-1.41	-1.46	0	0	0	0	0	0
2/23/2025 20:02	41902	REED_T1	9	8	-1	0.42	0.2	-0.22	0.17	0.2	0	0	0	0	0	0
2/23/2025 20:03	58402	MORO_T1	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
2/23/2025 20:03	57403	SPAN_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
2/23/2025 20:03	67201	TEHI_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
2/23/2025 20:03	46204	DANV_T2	3	6	3	0.17	0.2	0.03	0	0	0	0	0	0	0	0
2/23/2025 20:03	58401	MORO_T1	0	0	0	0	0	0	-1.16	-1.11	0	0	0	0	0	0
2/23/2025 20:03	67203	TEHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/23/2025 20:03	44201	POIN_T1	48	0	-48	0.17	0	-0.17	-4.05	-3.75	0	0	0	0	0	0
2/23/2025 20:03	59402	RFLD_T2	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
2/23/2025 20:03	65501	MOJO_T1	0	0	0	0	0	0	-1.28	-1.25	0	0	0	0	0	0
2/23/2025 20:03	59102	WALK_T2	0	0	0	0	0	0	-0.42	-0.46	1	1	0	600	600	0
2/23/2025 20:03	63804	HEMP_T1	1	1	0	6.2	6.3	0.1	0	0	0	0	0	0	0	0
2/23/2025 20:03	61502	EPET_T1	0	0	0	0	0	0	-1.46	-1.5	0	0	0	0	0	0
2/23/2025 20:03	46206	DANV_T2	11	6	-5	0.45	0	-0.45	0	0	0	0	0	0	0	0
2/23/2025 20:03	63802	HEMP_T1	0	0	0	0	0	0	0.15	0.1	0	0	0	0	0	0
2/23/2025 20:03	46203	DANV_T2	9	8	-1	0.2	0.16	-0.04	-2.16	-2.13	0	0	0	0	0	0
2/23/2025 20:03	41902	REED_T1	9	8	-1	0.42	0.2	-0.22	0.17	0.2	0	0	0	0	0	0
2/23/2025 20:03	67402	WAKE_T2	0	0	0	0	0	0	-0.43	-0.4	0	0	0	0	0	0
2/23/2025 20:04	66302	MCGO_T2	0	0	0	0	0	0	-1.91	-1.91	0	0	0	0	0	0
2/23/2025 20:04	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 20:04	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 20:04	60801	BUCK_T1	0	0	0	0	0	0	-0.89	-0.9	1	1	0	600	600	0
2/23/2025 20:04	58402	MORO_T1	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
2/23/2025 20:04	40603	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/23/2025 20:04	62101	ELAN_T1	0	0	0	0	0	0	1.56	1.54	0	0	0	0	0	0
2/23/2025 20:04	40602	PIGR_T1	0	0	0	0	0	0	-0.6	-0.62	1	1	0	600	600	0
2/23/2025 20:04	13303	ORVI_T1	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
2/23/2025 20:04	53501	EVIL_T2	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
2/23/2025 20:04	66303	MCGO_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/23/2025 20:04	40101	HUNT_T2	16	16	0	1.16	0.96	-0.2	-2.01	-1.97	0	0	0	0	0	0
2/23/2025 20:04	65802	RTWN_T2	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
2/23/2025 20:04	58401	MORO_T1	0	0	0	0	0	0	-1.16	-1.11	0	0	0	0	0	0
2/23/2025 20:04	44202	POIN_T2	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
2/23/2025 20:05	64101	REFR_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
2/23/2025 20:05	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 20:05	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 20:05	46204	DANV_T2	3	6	3	0.17	0.2	0.03	0	0	0	0	0	0	0	0
2/23/2025 20:05	57401	SPAN_T1	0	0	0	0	0	0	-1	-1.33	0	0	0	0	0	0
2/23/2025 20:05	46203	DANV_T2	9	8	-1	0.2	0.16	-0.04	-2.16	-2.13	0	0	0	0	0	0
2/23/2025 20:05	58401	MORO_T1	0	0	0	0	0	0	-1.16	-1.11	0	0	0	0	0	0
2/23/2025 20:05	59402	RFLD_T2	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
2/23/2025 20:05	65302	NBRI_T2	0	0	0	0	0	0	-1.6	-1.59	1	1	0	600	600	0
2/23/2025 20:05	45501	DERR_T2	5	4	-1	0.84	0.1	-0.74	-0.71	-0.73	0	0	0	0	0	0
2/23/2025 20:05	58402	MORO_T1	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
2/23/2025 20:05	17002	RIRO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 20:05	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 20:05	46206	DANV_T2	11	6	-5	0.45	0	-0.45	0	0	0	0	0	0	0	0
2/23/2025 20:05	41902	REED_T1	9	8	-1	0.42	0.2	-0.22	0.17	0.2	0	0	0	0	0	0
2/23/2025 20:06	58402	MORO_T1	0	6	6	0	0.13	0.13	-0.85	-0.88	2	2	0	1050	1050	0
2/23/2025 20:06	53502	EVIL_T2	0	1	1	0	0	0	0.6	0.59	0	0	0	0	0	0
2/23/2025 20:06	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 20:07	64204	KINZ_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
2/23/2025 20:07	52403	GRPA_T2	4	2	-2	0.65	0.75	0.1	-1.17	-1.18	0	0	0	0	0	0
2/23/2025 20:07	67901	WNHO_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
2/23/2025 20:07	64203	KINZ_T1	0	0	0	0	0	0	-0.47	-0.46	1	1	0	600	600	0
2/23/2025 20:07	52401	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/23/2025 20:07	52402	GRPA_T2	2	15	13	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
2/23/2025 20:07	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 20:07	40505	CRES_T1	0	0	0	0	0	0	0.49	0.46	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/23/2025 20:08	44201	POIN_T1	48	0	-48	0.17	0	-0.17	-1.87	-1.81	0	0	0	0	0	0
2/23/2025 20:08	61304	EARL_T1	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
2/23/2025 20:08	52401	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/23/2025 20:08	52402	GRPA_T2	2	15	13	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
2/23/2025 20:08	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 20:08	52403	GRPA_T2	4	2	-2	0.65	0.75	0.1	-1.17	-1.18	0	0	0	0	0	0
2/23/2025 20:08	67402	WAKE_T2	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
2/23/2025 20:09	52401	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/23/2025 20:09	52403	GRPA_T2	4	2	-2	0.65	0.75	0.1	-1.17	-1.18	0	0	0	0	0	0
2/23/2025 20:09	52402	GRPA_T2	2	15	13	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
2/23/2025 20:09	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 20:09	44301	BEAV_T2	2	3	1	0.95	0.65	-0.3	0	0	0	0	0	0	0	0
2/23/2025 20:09	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 20:10	52402	GRPA_T2	2	15	13	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
2/23/2025 20:10	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/23/2025 20:10	52403	GRPA_T2	4	2	-2	0.65	0.75	0.1	0	0	0	0	0	0	0	0
2/23/2025 20:10	52401	GRPA_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/23/2025 20:11	55002	NEWP_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
2/23/2025 20:11	55001	NEWP_T1	0	1	1	0	0.8	0.8	-1	-0.98	1	1	0	600	600	0
2/23/2025 20:42	15203	SFAR_T2	0	0	0	0	0	0	-1.29	-1.31	0	0	0	0	0	0
2/23/2025 20:44	57401	SPAN_T1	0	0	0	0	0	0	-1.42	-1.38	1	1	0	600	600	0
2/23/2025 21:00	13302	ORVI_T2	0	0	0	0	0	0	1.35	1.5	0	0	0	0	0	0
2/24/2025 0:24	57401	SPAN_T1	0	0	0	0	0	0	-0.92	-0.92	1	1	0	600	600	0
2/24/2025 7:20	41903	REED_T1	0	0	0	0	0	0	0.15	0.06	1	1	0	1200	1200	0
2/24/2025 7:20	41902	REED_T1	11	9	-2	0.46	0	-0.46	0	0	0	0	0	0	0	0
2/24/2025 7:25	40201	BEGA_T2	1	2	1	0.8	1	0.2	0	0	0	0	0	0	0	0
2/24/2025 7:27	53501	EVIL_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
2/24/2025 7:27	53502	EVIL_T2	2	1	-1	2	0.8	-1.2	0	0	0	0	0	0	0	0
2/24/2025 7:33	55002	NEWP_T1	4	6	2	0.73	0.4	-0.33	-0.17	-0.19	0	0	0	0	0	0
2/24/2025 7:36	66505	SMAN_T2	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
2/24/2025 7:36	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 7:41	45502	DERR_T2	8	2	-6	0.58	0.1	-0.48	-0.57	-0.58	0	0	0	0	0	0
2/24/2025 7:41	45501	DERR_T2	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/24/2025 7:42	45502	DERR_T2	8	2	-6	0.58	0.1	-0.48	0	0	0	0	0	0	0	0
2/24/2025 7:42	45501	DERR_T2	2	1	-1	0.2	0	-0.2	0.42	0.47	2	2	0	1800	1800	0
2/24/2025 7:45	53601	DALM_T2	1	1	0	0.4	1	0.6	-0.12	-0.13	0	0	0	0	0	0
2/24/2025 7:45	41801	GOCI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 7:46	20602	GRWO_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/24/2025 7:46	20601	GRWO_T2	91	117	26	0.65	0.56	-0.09	0.49	0.54	0	0	0	0	0	0
2/24/2025 7:46	52403	GRPA_T2	2	3	1	0.65	1.3	0.65	0	0	0	0	0	0	0	0
2/24/2025 7:46	52402	GRPA_T2	2	56	54	0.1	0.37	0.27	0	0	0	0	0	0	0	0
2/24/2025 7:46	20603	GRWO_T2	9	20	11	0.19	0	-0.19	0	0	0	0	0	0	0	0
2/24/2025 7:46	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 7:47	45701	LIND_T2	0	0	0	0	0	0	-1.61	-1.61	0	0	0	0	0	0
2/24/2025 7:48	45701	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 7:50	41902	REED_T1	1	4	3	0.4	0	-0.4	0.22	0.24	1	1	0	900	900	0
2/24/2025 7:50	41801	GOCI_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 7:52	65604	QVIL_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
2/24/2025 7:53	52501	PROG_T1	190	231	41	0.25	0.3	0.05	0	0	0	0	0	0	0	0
2/24/2025 7:53	52504	PROG_T1	6	17	11	0.1	0.1	0	0	0	0	0	0	0	0	0
2/24/2025 7:54	52501	PROG_T1	190	231	41	0.25	0.3	0.05	-0.69	-0.69	1	1	0	300	300	0
2/24/2025 7:54	52504	PROG_T1	6	17	11	0.1	0.1	0	0	0	0	0	0	0	0	0
2/24/2025 7:56	65902	SAKR_T2	1	1	0	1.6	1.2	-0.4	0	0	0	0	0	0	0	0
2/24/2025 7:56	65901	SAKR_T2	1	1	0	8.2	8.3	0.1	-1.04	-1.1	1	1	0	900	900	0
2/24/2025 7:56	60803	BUCK_T1	0	0	0	0	0	0	-1.15	-1.16	1	1	0	600	600	0
2/24/2025 7:57	45502	DERR_T2	2	1	-1	0.95	0	-0.95	0	0	0	0	0	0	0	0
2/24/2025 7:57	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.47	0.37	2	2	0	1800	1800	0
2/24/2025 8:01	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/24/2025 8:01	52402	GRPA_T2	33	54	21	0.36	0.5	0.14	0	0	0	0	0	0	0	0
2/24/2025 8:01	52403	GRPA_T2	1	3	2	1.3	2.2	0.9	-0.81	-0.77	0	0	0	0	0	0
2/24/2025 8:03	41902	REED_T1	4	0	-4	0.48	0	-0.48	0.48	0.56	2	2	0	1800	1800	0
2/24/2025 8:10	46206	DANV_T2	6	3	-3	0.43	0.5	0.07	0	0	0	0	0	0	0	0
2/24/2025 8:10	46203	DANV_T2	40	69	29	0.36	0.36	0	-2.07	-2.18	0	0	0	0	0	0
2/24/2025 8:10	46204	DANV_T2	43	54	11	0.39	0.32	-0.07	0	0	0	0	0	0	0	0
2/24/2025 8:11	46203	DANV_T2	40	69	29	0.36	0.36	0	-2.07	-2.18	0	0	0	0	0	0
2/24/2025 8:11	46204	DANV_T2	43	54	11	0.39	0.32	-0.07	0	0	0	0	0	0	0	0
2/24/2025 8:11	46206	DANV_T2	6	3	-3	0.43	0.5	0.07	0	0	0	0	0	0	0	0
2/24/2025 8:12	46203	DANV_T2	40	69	29	0.36	0.36	0	-2.07	-2.18	0	0	0	0	0	0
2/24/2025 8:12	46206	DANV_T2	6	3	-3	0.43	0.5	0.07	0	0	0	0	0	0	0	0
2/24/2025 8:12	46204	DANV_T2	43	54	11	0.39	0.32	-0.07	0	0	0	0	0	0	0	0
2/24/2025 8:13	40201	BEGA_T2	1	2	1	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
2/24/2025 8:13	46204	DANV_T2	43	54	11	0.39	0.32	-0.07	0	0	0	0	0	0	0	0
2/24/2025 8:13	46203	DANV_T2	40	69	29	0.36	0.36	0	-4.14	-4.36	0	0	0	0	0	0
2/24/2025 8:13	46206	DANV_T2	6	3	-3	0.43	0.5	0.07	0	0	0	0	0	0	0	0
2/24/2025 8:16	63804	HEMP_T1	1	1	0	6.3	6.7	0.4	0	0	0	0	0	0	0	0
2/24/2025 8:16	63802	HEMP_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
2/24/2025 8:17	52403	GRPA_T2	3	4	1	1.33	0.88	-0.45	-0.77	-0.94	0	0	0	0	0	0
2/24/2025 8:17	52402	GRPA_T2	53	29	-24	0.62	0.44	-0.18	0	0	0	0	0	0	0	0
2/24/2025 8:33	64802	MONE_T2	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
2/24/2025 8:33	52402	GRPA_T2	23	22	-1	0.48	0.33	-0.15	0	0	0	0	0	0	0	0
2/24/2025 8:33	52403	GRPA_T2	1	4	3	2.2	0.73	-1.47	-0.94	-0.97	0	0	0	0	0	0
2/24/2025 8:37	64802	MONE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/24/2025 8:38	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 8:43	53501	EVIL_T2	1	2	1	0.8	0.8	0	-0.93	-1	2	2	0	1200	1200	0
2/24/2025 8:43	53502	EVIL_T2	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
2/24/2025 8:43	40501	CRES_T2	9	10	1	0.22	0.25	0.03	0	0	0	0	0	0	0	0
2/24/2025 8:51	29402	BELT_T1	1	1	0	8	8.5	0.5	0	0	0	0	0	0	0	0
2/24/2025 8:51	58401	MORO_T1	0	0	0	0	0	0	-0.88	-0.95	1	1	0	600	600	0
2/24/2025 8:54	41902	REED_T1	7	2	-5	0.81	0.1	-0.71	0.24	0.25	1	1	0	900	900	0
2/24/2025 8:56	29402	BELT_T1	1	1	0	8	8.5	0.5	0	0	0	0	0	0	0	0
2/24/2025 8:57	46203	DANV_T2	28	46	18	0.28	0.29	0.01	-2.18	-2.22	0	0	0	0	0	0
2/24/2025 8:57	46206	DANV_T2	4	7	3	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
2/24/2025 8:57	46204	DANV_T2	44	34	-10	0.35	0.26	-0.09	0	0	0	0	0	0	0	0
2/24/2025 9:00	64801	MONE_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
2/24/2025 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
2/24/2025 9:00	44801	EDAN_T2	1	0	-1	0.1	0	-0.1	-0.41	-0.42	0	0	0	0	0	0
2/24/2025 9:00	46206	DANV_T2	6	6	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
2/24/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
2/24/2025 9:00	46203	DANV_T2	20	48	28	0.29	0.29	0	-2.18	-2.22	0	0	0	0	0	0
2/24/2025 9:00	64802	MONE_T2	0	19	19	0	0.16	0.16	-0.01	-0.01	0	0	0	0	0	0
2/24/2025 9:00	53902	HALI_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
2/24/2025 9:00	46204	DANV_T2	25	32	7	0.33	0.24	-0.09	0	0	0	0	0	0	0	0
2/24/2025 9:00	53903	HALI_T2	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
2/24/2025 9:00	53901	HALI_T2	1	1	0	0.2	0.2	0	-1.41	-1.42	0	0	0	0	0	0
2/24/2025 9:03	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 9:03	65205	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/24/2025 9:06	67503	WEWI_T2	0	0	0	0	0	0	0.02	-0.04	0	0	0	0	0	0
2/24/2025 9:07	29402	BELT_T1	1	3	2	8.1	8.7	0.6	0	0	0	0	0	0	0	0
2/24/2025 9:08	45002	LIME_2	1	1	0	6.3	5.8	-0.5	0	0	0	0	0	0	0	0
2/24/2025 9:08	45001	LIME_2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/24/2025 9:08	45003	LIME_2	2	2	0	2.45	2.45	0	0.53	0.53	0	0	0	0	0	0
2/24/2025 9:09	41902	REED_T1	2	1	-1	1.05	0	-1.05	0.25	0.21	1	1	0	900	900	0
2/24/2025 9:10	46204	DANV_T2	25	32	7	0.33	0.24	-0.09	0	0	0	0	0	0	0	0
2/24/2025 9:10	46206	DANV_T2	6	6	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
2/24/2025 9:10	46203	DANV_T2	20	48	28	0.29	0.29	0	-2.22	-2.2	0	0	0	0	0	0
2/24/2025 9:11	46203	DANV_T2	20	48	28	0.29	0.29	0	-2.22	-2.2	0	0	0	0	0	0
2/24/2025 9:11	46206	DANV_T2	6	6	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
2/24/2025 9:11	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 9:11	46204	DANV_T2	25	32	7	0.33	0.24	-0.09	0	0	0	0	0	0	0	0
2/24/2025 9:13	46203	DANV_T2	20	48	28	0.29	0.29	0	-2.22	-2.2	0	0	0	0	0	0
2/24/2025 9:13	46204	DANV_T2	25	32	7	0.33	0.24	-0.09	0	0	0	0	0	0	0	0
2/24/2025 9:13	46206	DANV_T2	6	6	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
2/24/2025 9:14	10805	CHHI_T2	1	1	0	8.3	8.2	-0.1	-1.23	-1.19	1	1	0	600	600	0
2/24/2025 9:14	46206	DANV_T2	6	6	0	0.23	0.3	0.07	0	0	0	0	0	0	0	0
2/24/2025 9:14	20601	GRWO_T2	52	46	-6	0.52	0.41	-0.11	0.74	0.71	0	0	0	0	0	0
2/24/2025 9:14	46204	DANV_T2	25	32	7	0.33	0.24	-0.09	0	0	0	0	0	0	0	0
2/24/2025 9:14	46203	DANV_T2	20	48	28	0.29	0.29	0	-4.45	-4.4	0	0	0	0	0	0
2/24/2025 9:15	52402	GRPA_T2	21	35	14	0.43	0.43	0	0	0	0	0	0	0	0	0
2/24/2025 9:15	52403	GRPA_T2	1	6	5	2.7	0.93	-1.77	-0.59	-0.6	0	0	0	0	0	0
2/24/2025 9:15	20601	GRWO_T2	36	45	9	0.44	0.33	-0.11	0.74	0.71	0	0	0	0	0	0
2/24/2025 9:15	20603	GRWO_T2	0	8	8	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 9:16	45701	LIND_T2	0	0	0	0	0	0	-1.59	-1.6	0	0	0	0	0	0
2/24/2025 9:16	52402	GRPA_T2	21	35	14	0.43	0.43	0	0	0	0	0	0	0	0	0
2/24/2025 9:16	52403	GRPA_T2	1	6	5	2.7	0.93	-1.77	0	0	0	0	0	0	0	0
2/24/2025 9:16	52401	GRPA_T2	0	0	0	0	0	0	-0.6	-0.65	0	0	0	0	0	0
2/24/2025 9:17	45701	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 9:17	64801	MONE_T2	3	0	-3	0.17	0	-0.17	83.96	83.96	0	0	0	0	0	0
2/24/2025 9:17	64802	MONE_T2	19	4	-15	0.16	0.23	0.07	0	0	0	0	0	0	0	0
2/24/2025 9:20	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 9:20	41902	REED_T1	1	0	-1	0.1	0	-0.1	0.25	0.21	1	1	0	900	900	0
2/24/2025 9:21	64801	MONE_T2	3	0	-3	0.17	0	-0.17	83.96	83.96	0	0	0	0	0	0
2/24/2025 9:21	52403	GRPA_T2	1	6	5	2.7	0.93	-1.77	0	0	0	0	0	0	0	0
2/24/2025 9:21	52402	GRPA_T2	21	35	14	0.43	0.43	0	0	0	0	0	0	0	0	0
2/24/2025 9:21	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 9:21	65602	QVIL_T2	46	46	0	1.14	1.37	0.23	0	0	0	0	0	0	0	0
2/24/2025 9:21	64802	MONE_T2	19	4	-15	0.16	0.23	0.07	0	0	0	0	0	0	0	0
2/24/2025 9:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 9:21	52401	GRPA_T2	0	0	0	0	0	0	-0.6	-0.65	0	0	0	0	0	0
2/24/2025 9:21	65601	QVIL_T2	5	4	-1	0.22	0.15	-0.07	0	0	0	0	0	0	0	0
2/24/2025 9:22	67401	WAKE_T2	0	1	1	0	0.1	0.1	-1.1	-1.08	0	0	0	0	0	0
2/24/2025 9:23	65206	PRIN_T4	1	2	1	3.6	0	-3.6	0	0	0	0	0	0	0	0
2/24/2025 9:23	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/24/2025 9:23	65207	PRIN_T4	3	4	1	2.57	2.53	-0.04	0	0	0	0	0	0	0	0
2/24/2025 9:24	41902	REED_T1	1	0	-1	0.1	0	-0.1	0.21	0.24	1	1	0	900	900	0
2/24/2025 9:24	41903	REED_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 9:25	44301	BEAV_T2	0	1	1	0	0	0	0.17	0.68	2	2	0	1500	1500	0
2/24/2025 9:25	44302	BEAV_T2	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
2/24/2025 9:26	16101	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/24/2025 9:26	46204	DANV_T2	29	13	-16	0.32	0.2	-0.12	0	0	0	0	0	0	0	0
2/24/2025 9:26	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 9:26	46203	DANV_T2	45	37	-8	0.28	0.35	0.07	0	0	0	0	0	0	0	0
2/24/2025 9:26	46206	DANV_T2	5	6	1	0.3	0.3	0	3.77	3.6	4	4	0	4200	4200	0
2/24/2025 9:26	16102	BING_T2	0	7	7	0	0.16	0.16	-0.05	-0.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/24/2025 9:26	16103	BING_T2	0	0	0	0	0	0	-1.59	-1.69	1	1	0	900	900	0
2/24/2025 9:29	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 9:29	53501	EVIL_T2	3	1	-2	0.67	1	0.33	0	0	0	0	0	0	0	0
2/24/2025 9:30	53502	EVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/24/2025 9:30	52402	GRPA_T2	32	34	2	0.51	0.36	-0.15	0	0	0	0	0	0	0	0
2/24/2025 9:30	53501	EVIL_T2	1	2	1	1	1	0	-0.92	-0.88	2	2	0	1200	1200	0
2/24/2025 9:30	52403	GRPA_T2	4	10	6	0.93	0.68	-0.25	-0.6	-0.6	0	0	0	0	0	0
2/24/2025 9:30	10801	CHHI_T1	2	3	1	0.25	0.23	-0.02	-1.95	-1.99	3	3	0	2100	2100	0
2/24/2025 9:31	52402	GRPA_T2	32	34	2	0.51	0.36	-0.15	0	0	0	0	0	0	0	0
2/24/2025 9:31	52403	GRPA_T2	4	10	6	0.93	0.68	-0.25	0	0	0	0	0	0	0	0
2/24/2025 9:32	52403	GRPA_T2	4	10	6	0.93	0.68	-0.25	-1.2	-1.2	0	0	0	0	0	0
2/24/2025 9:32	52402	GRPA_T2	32	34	2	0.51	0.36	-0.15	0	0	0	0	0	0	0	0
2/24/2025 9:33	65503	MOJO_T2	0	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0
2/24/2025 9:33	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 9:36	45001	LIME_2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/24/2025 9:36	45003	LIME_2	2	2	0	2.45	1.9	-0.55	0	0	0	0	0	0	0	0
2/24/2025 9:36	45002	LIME_2	1	1	0	5.8	5.3	-0.5	0.59	0.59	0	0	0	0	0	0
2/24/2025 9:37	48302	ORWI_T2	2	2	0	0.5	0.35	-0.15	-0.8	-0.6	0	0	0	0	0	0
2/24/2025 9:38	64101	REFR_T1	1	3	2	0.1	0.2	0.1	-0.06	-0.07	0	0	0	0	0	0
2/24/2025 9:38	29402	BELT_T1	1	4	3	8.7	2.73	-5.97	0	0	0	0	0	0	0	0
2/24/2025 9:39	17002	RIRO_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/24/2025 9:41	29402	BELT_T1	1	4	3	8.7	2.73	-5.97	0	0	0	0	0	0	0	0
2/24/2025 9:41	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/24/2025 9:41	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 9:42	53502	EVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/24/2025 9:42	53501	EVIL_T2	1	2	1	1	1	0	-0.88	-0.95	2	2	0	1200	1200	0
2/24/2025 9:42	45501	DERR_T2	0	2	2	0	0	0	0.25	0.42	2	2	0	1800	1800	0
2/24/2025 9:43	45501	DERR_T2	0	2	2	0	0	0	0.25	0.42	2	2	0	1800	1800	0
2/24/2025 9:44	53501	EVIL_T2	1	2	1	1	1	0	-0.88	-0.95	2	2	0	1200	1200	0
2/24/2025 9:44	46206	DANV_T2	3	8	5	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/24/2025 9:44	53502	EVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/24/2025 9:44	16302	ALPA_T2	1	2	1	0.4	0.35	-0.05	-0.62	-0.68	0	0	0	0	0	0
2/24/2025 9:44	46204	DANV_T2	13	5	-8	0.23	0.3	0.07	0	0	0	0	0	0	0	0
2/24/2025 9:44	46203	DANV_T2	35	60	25	0.26	0.41	0.15	-2.26	-2.24	0	0	0	0	0	0
2/24/2025 9:45	53501	EVIL_T2	1	2	1	0.7	1	0.3	-0.88	-0.95	2	2	0	1200	1200	0
2/24/2025 9:45	53502	EVIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/24/2025 9:46	53502	EVIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/24/2025 9:46	53501	EVIL_T2	1	2	1	0.7	1	0.3	-1.76	-1.89	4	4	0	2400	2400	0
2/24/2025 9:52	67402	WAKE_T2	0	0	0	0	0	0	0.92	0.88	2	2	0	1200	1200	0
2/24/2025 9:52	13103	NHAM_T2	0	0	0	0	0	0	-1.68	-1.68	1	1	0	600	600	0
2/24/2025 9:52	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 9:54	67402	WAKE_T2	0	0	0	0	0	0	0.46	0.44	1	1	0	600	600	0
2/24/2025 10:06	59003	MIFF_T1	0	0	0	0	0	0	-0.96	-0.92	0	0	0	0	0	0
2/24/2025 10:12	42701	AUGU_T1	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
2/24/2025 10:13	42701	AUGU_T1	0	1	1	0	1.2	1.2	0	0	2	2	0	1800	1800	0
2/24/2025 10:16	10801	CHHI_T1	1	1	0	0.2	0.1	-0.1	-2.02	-2.05	3	3	0	2100	2100	0
2/24/2025 10:19	46801	HEPB_T2	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
2/24/2025 10:19	46803	HEPB_T2	2	3	1	0.3	0.43	0.13	0	0	0	0	0	0	0	0
2/24/2025 10:21	46801	HEPB_T2	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
2/24/2025 10:21	46803	HEPB_T2	2	3	1	0.3	0.43	0.13	0.37	0.29	0	0	0	0	0	0
2/24/2025 10:22	47802	MOCA_T2	0	0	0	0	0	0	-1.01	-0.97	0	0	0	0	0	0
2/24/2025 10:23	66504	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/24/2025 10:23	66505	SMAN_T2	0	0	0	0	0	0	-0.18	-0.11	1	1	0	900	900	0
2/24/2025 10:25	67401	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/24/2025 10:25	55101	WERT_T1	1	0	-1	0.1	0	-0.1	-1.55	-1.6	2	2	0	1500	1500	0
2/24/2025 10:25	67402	WAKE_T2	0	2	2	0	0.35	0.35	0.48	0.43	1	1	0	600	600	0
2/24/2025 10:28	55101	WERT_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/24/2025 10:28	10801	CHHI_T1	1	1	0	0.2	0.1	-0.1	-2.05	-2.03	3	3	0	2100	2100	0
2/24/2025 10:29	67401	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/24/2025 10:29	67402	WAKE_T2	0	2	2	0	0.35	0.35	0.48	0.43	1	1	0	600	600	0
2/24/2025 10:30	45502	DERR_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/24/2025 10:30	11804	FRAN_T1	0	0	0	0	0	0	0.98	0.93	0	0	0	0	0	0
2/24/2025 10:30	11805	FRAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/24/2025 10:30	45501	DERR_T2	0	0	0	0	0	0	0.65	0.53	2	2	0	1800	1800	0
2/24/2025 10:32	40101	HUNT_T2	4	14	10	1.15	0.67	-0.48	-1.79	-1.22	0	0	0	0	0	0
2/24/2025 10:32	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/24/2025 10:32	44302	BEAV_T2	6	6	0	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
2/24/2025 10:33	64203	KINZ_T1	0	0	0	0	0	0	-0.12	0.03	2	2	0	1800	1800	0
2/24/2025 10:33	20601	GRWO_T2	18	16	-2	0.54	0.75	0.21	0.77	0.72	0	0	0	0	0	0
2/24/2025 10:33	20603	GRWO_T2	6	0	-6	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/24/2025 10:33	64202	KINZ_T1	3	2	-1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
2/24/2025 10:33	64204	KINZ_T1	3	18	15	0.77	0.47	-0.3	0	0	0	0	0	0	0	0
2/24/2025 10:35	52404	GRPA_T2	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
2/24/2025 10:35	52403	GRPA_T2	2	15	13	1.15	0.76	-0.39	0	0	0	0	0	0	0	0
2/24/2025 10:35	52402	GRPA_T2	11	16	5	0.39	0.6	0.21	0	0	0	0	0	0	0	0
2/24/2025 10:35	52401	GRPA_T2	0	117	117	0	0.28	0.28	0	0	0	0	0	0	0	0
2/24/2025 10:36	52402	GRPA_T2	11	16	5	0.39	0.6	0.21	0	0	0	0	0	0	0	0
2/24/2025 10:36	52401	GRPA_T2	0	117	117	0	0.28	0.28	0	0	0	0	0	0	0	0
2/24/2025 10:36	52403	GRPA_T2	2	15	13	1.15	0.76	-0.39	0	0	0	0	0	0	0	0
2/24/2025 10:38	58401	MORO_T1	0	1	1	0	0.1	0.1	-1.07	-1.03	1	1	0	600	600	0
2/24/2025 10:40	41902	REED_T1	0	1	1	0	0.4	0.4	0.26	0.28	1	1	0	900	900	0
2/24/2025 10:41	58401	MORO_T1	0	1	1	0	0.1	0.1	-1.07	-1.03	1	1	0	600	600	0
2/24/2025 10:42	58401	MORO_T1	0	1	1	0	0.1	0.1	-1.07	-1.03	1	1	0	600	600	0
2/24/2025 10:45	41601	CLEV_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/24/2025 10:45	41602	CLEV_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
2/24/2025 10:46	41601	CLEV_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/24/2025 10:46	41602	CLEV_T1	1	1	0	0.3	0.8	0.5	0	0	1	1	0	600	600	0
2/24/2025 10:47	46602	LACR_T1	6	5	-1	0.5	0.58	0.08	-0.72	-0.7	0	0	0	0	0	0
2/24/2025 10:49	46803	HEPB_T2	3	3	0	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
2/24/2025 10:49	40101	HUNT_T2	14	13	-1	0.7	0.55	-0.15	-1.22	-1.24	0	0	0	0	0	0
2/24/2025 10:49	46801	HEPB_T2	2	2	0	0.95	0.9	-0.05	0.57	0.6	0	0	0	0	0	0
2/24/2025 10:53	52403	GRPA_T2	13	17	4	0.76	0.62	-0.14	-0.74	-0.75	0	0	0	0	0	0
2/24/2025 10:53	52401	GRPA_T2	5	8	3	0.24	2	1.76	0	0	0	0	0	0	0	0
2/24/2025 10:53	41902	REED_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/24/2025 10:53	52402	GRPA_T2	14	23	9	0.38	0.61	0.23	0	0	0	0	0	0	0	0
2/24/2025 10:53	55001	NEWP_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/24/2025 10:53	55002	NEWP_T1	10	10	0	0.65	0.88	0.23	-0.22	-0.23	0	0	0	0	0	0
2/24/2025 10:55	41902	REED_T1	1	1	0	0.1	0.4	0.3	0.28	0.23	1	1	0	900	900	0
2/24/2025 10:57	59102	WALK_T2	1	4	3	0.1	0.43	0.33	0	0	0	0	0	0	0	0
2/24/2025 10:57	59101	WALK_T2	0	1	1	0	0.3	0.3	1.91	1.83	1	1	0	600	600	0
2/24/2025 10:58	59102	WALK_T2	1	4	3	0.1	0.43	0.33	0	0	0	0	0	0	0	0
2/24/2025 10:58	59101	WALK_T2	0	1	1	0	0.3	0.3	1.91	1.83	1	1	0	600	600	0
2/24/2025 10:59	53601	DALM_T2	1	1	0	0.5	0.3	-0.2	0.21	0.22	0	0	0	0	0	0
2/24/2025 10:59	55105	WERT_T1	0	0	0	0	0	0	-0.63	-0.64	1	1	0	900	900	0
2/24/2025 11:00	59101	WALK_T2	0	1	1	0	0.3	0.3	1.91	1.83	1	1	0	600	600	0
2/24/2025 11:00	59102	WALK_T2	2	4	2	0.25	0.43	0.18	0	0	0	0	0	0	0	0
2/24/2025 11:00	55105	WERT_T1	0	0	0	0	0	0	-0.63	-0.64	1	1	0	900	900	0
2/24/2025 11:01	41602	CLEV_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/24/2025 11:01	24101	EHAZ_T1	45	54	9	1.61	1.33	-0.28	0	0	0	0	0	0	0	0
2/24/2025 11:01	24103	EHAZ_T1	1	4	3	0.2	0.6	0.4	-1.18	-1.22	0	0	0	0	0	0
2/24/2025 11:01	41601	CLEV_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/24/2025 11:01	24105	EHAZ_T1	4	4	0	6.68	6.88	0.2	0	0	0	0	0	0	0	0
2/24/2025 11:01	24104	EHAZ_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
2/24/2025 11:01	24102	EHAZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 11:02	41602	CLEV_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/24/2025 11:02	41601	CLEV_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
2/24/2025 11:03	52402	GRPA_T2	9	22	13	0.59	0.61	0.02	0	0	0	0	0	0	0	0
2/24/2025 11:03	52403	GRPA_T2	13	17	4	0.75	0.64	-0.11	-0.74	-0.75	0	0	0	0	0	0
2/24/2025 11:03	52401	GRPA_T2	4	6	2	0.28	0.28	0	0	0	0	0	0	0	0	0
2/24/2025 11:04	53601	DALM_T2	1	1	0	0.3	0.3	0	0.21	0.22	0	0	0	0	0	0
2/24/2025 11:05	52401	GRPA_T2	4	6	2	0.28	0.28	0	0	0	0	0	0	0	0	0
2/24/2025 11:05	52403	GRPA_T2	13	17	4	0.75	0.64	-0.11	0	0	0	0	0	0	0	0
2/24/2025 11:05	52402	GRPA_T2	9	22	13	0.59	0.61	0.02	0	0	0	0	0	0	0	0
2/24/2025 11:05	40101	HUNT_T2	13	4	-9	0.75	0	-0.75	0	0	0	0	0	0	0	0
2/24/2025 11:06	22601	KIMB_T1	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
2/24/2025 11:06	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
2/24/2025 11:08	22602	KIMB_T1	0	0	0	0	0	0	0.17	0.21	0	0	0	0	0	0
2/24/2025 11:08	64101	REFR_T1	5	10	5	0.36	0.28	-0.08	-0.26	-0.26	0	0	0	0	0	0
2/24/2025 11:08	22601	KIMB_T1	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
2/24/2025 11:09	66504	SMAN_T2	0	3	3	0	0.23	0.23	-0.54	-0.5	0	0	0	0	0	0
2/24/2025 11:10	66504	SMAN_T2	0	3	3	0	0.23	0.23	-0.54	-0.5	0	0	0	0	0	0
2/24/2025 11:11	66504	SMAN_T2	0	3	3	0	0.23	0.23	-0.54	-0.5	0	0	0	0	0	0
2/24/2025 11:11	56503	ROCK_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/24/2025 11:11	56501	ROCK_T2	0	73	73	0	0.5	0.5	-1.25	-1.27	0	0	0	0	0	0
2/24/2025 11:11	66502	SMAN_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
2/24/2025 11:13	66504	SMAN_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
2/24/2025 11:14	45501	DERR_T2	0	0	0	0	0	0	0.62	0.59	2	2	0	1800	1800	0
2/24/2025 11:15	42701	AUGU_T1	0	1	1	0	1.7	1.7	0	0	2	2	0	1800	1800	0
2/24/2025 11:16	41601	CLEV_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
2/24/2025 11:16	41602	CLEV_T1	1	3	2	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/24/2025 11:16	45501	DERR_T2	0	0	0	0	0	0	0.62	0.59	2	2	0	1800	1800	0
2/24/2025 11:17	41601	CLEV_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
2/24/2025 11:17	41602	CLEV_T1	1	3	2	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/24/2025 11:18	41602	CLEV_T1	1	3	2	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/24/2025 11:18	41601	CLEV_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
2/24/2025 11:19	46803	HEPB_T2	3	1	-2	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
2/24/2025 11:19	46801	HEPB_T2	2	2	0	0.9	1	0.1	0.6	0.58	0	0	0	0	0	0
2/24/2025 11:20	67804	WLAN_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/24/2025 11:20	46801	HEPB_T2	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/24/2025 11:20	67805	WLAN_T1	0	0	0	0	0	0	-0.91	-1.04	0	0	0	0	0	0
2/24/2025 11:20	46803	HEPB_T2	3	1	-2	0.23	0.1	-0.13	0	0	0	0	0	0	0	0
2/24/2025 11:22	58101	NEKI_T1	3	3	0	0.47	0.93	0.46	0	0	0	0	0	0	0	0
2/24/2025 11:22	58102	NEKI_T1	1	2	1	1.1	0.9	-0.2	-1.04	-1.03	1	1	0	1200	1200	0
2/24/2025 11:22	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 11:22	28403	HART_T2	0	0	0	0	0	0	-0.92	-0.91	1	1	0	900	900	0
2/24/2025 11:23	41902	REED_T1	1	6	5	0.4	0.36	-0.04	0.22	0.13	1	1	0	900	900	0
2/24/2025 11:24	54203	PENN_T1	20	26	6	0.82	0.92	0.1	0	0	0	0	0	0	0	0
2/24/2025 11:24	54201	PENN_T1	11	43	32	0.93	0.48	-0.45	-1.27	-1.26	0	0	0	0	0	0
2/24/2025 11:25	54201	PENN_T1	11	43	32	0.93	0.48	-0.45	-1.27	-1.26	0	0	0	0	0	0
2/24/2025 11:25	54203	PENN_T1	20	26	6	0.82	0.92	0.1	0	0	0	0	0	0	0	0
2/24/2025 11:25	57403	SPAN_T1	59	49	-10	0.29	0.33	0.04	0	0	0	0	0	0	0	0
2/24/2025 11:25	57401	SPAN_T1	2	4	2	0.3	0.48	0.18	0	0	0	0	0	0	0	0
2/24/2025 11:26	57401	SPAN_T1	2	4	2	0.3	0.48	0.18	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/24/2025 11:26	57403	SPAN_T1	59	49	-10	0.29	0.33	0.04	0.05	0.06	0	0	0	0	0	0
2/24/2025 11:27	41902	REED_T1	1	6	5	0.4	0.36	-0.04	0.22	0.13	1	1	0	900	900	0
2/24/2025 11:28	41902	REED_T1	1	6	5	0.4	0.36	-0.04	0.22	0.13	1	1	0	900	900	0
2/24/2025 11:28	51201	MTON_T1	1	3	2	0.6	0.43	-0.17	-0.08	-0.07	0	0	0	0	0	0
2/24/2025 11:29	57403	SPAN_T1	59	49	-10	0.29	0.33	0.04	0	0	0	0	0	0	0	0
2/24/2025 11:29	57401	SPAN_T1	2	4	2	0.3	0.48	0.18	0	0	0	0	0	0	0	0
2/24/2025 11:30	57401	SPAN_T1	3	4	1	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
2/24/2025 11:30	51204	MTON_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/24/2025 11:30	51202	MTON_T2	2	2	0	0.35	0.7	0.35	-2.14	-2.16	2	2	0	2400	2400	0
2/24/2025 11:30	57403	SPAN_T1	35	45	10	0.35	0.33	-0.02	0.05	0.06	0	0	0	0	0	0
2/24/2025 11:31	54203	PENN_T1	23	25	2	0.99	0.92	-0.07	0	0	0	0	0	0	0	0
2/24/2025 11:31	54201	PENN_T1	30	43	13	0.55	0.45	-0.1	-2.55	-2.52	0	0	0	0	0	0
2/24/2025 11:32	51202	MTON_T2	2	2	0	0.35	0.7	0.35	-1.07	-1.08	1	1	0	1200	1200	0
2/24/2025 11:32	41301	FISH_T1	3	3	0	2.4	2.53	0.13	-0.69	-0.7	0	0	0	0	0	0
2/24/2025 11:32	41305	FISH_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/24/2025 11:32	51204	MTON_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/24/2025 11:33	41301	FISH_T1	3	3	0	2.4	2.53	0.13	-0.69	-0.7	0	0	0	0	0	0
2/24/2025 11:33	41305	FISH_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/24/2025 11:35	17802	GILB_T1	1	1	0	1.1	1.1	0	0.18	0.17	0	0	0	0	0	0
2/24/2025 11:39	41205	KENM_T2	0	0	0	0	0	0	-0.77	-0.76	1	1	0	600	600	0
2/24/2025 11:39	41202	KENM_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/24/2025 11:39	25503	MADI_T1	5	44	39	0.16	0.18	0.02	0	0	0	0	0	0	0	0
2/24/2025 11:40	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 11:40	13901	SEID_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/24/2025 11:40	13902	SEID_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/24/2025 11:40	13905	SEID_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/24/2025 11:43	29402	BELT_T1	12	22	10	1.16	0.71	-0.45	0	0	0	0	0	0	0	0
2/24/2025 11:43	40201	BEGA_T2	2	4	2	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
2/24/2025 11:43	67201	TEHI_T1	2	2	0	0.2	0.6	0.4	-0.17	-0.19	1	1	0	900	900	0
2/24/2025 11:43	29401	BELT_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/24/2025 11:45	51202	MTON_T2	2	2	0	0.45	0.6	0.15	-1.08	-1.09	1	1	0	1200	1200	0
2/24/2025 11:45	51204	MTON_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/24/2025 11:46	59102	WALK_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/24/2025 11:46	59101	WALK_T2	0	0	0	0	0	0	1.13	1.86	0	0	0	0	0	0
2/24/2025 11:47	47203	FAXO_T2	0	0	0	0	0	0	-1.78	-1.75	1	1	0	1200	1200	0
2/24/2025 11:48	17401	FOHI_T1	0	0	0	0	0	0	-1.06	-0.99	0	0	0	0	0	0
2/24/2025 11:48	10805	CHHI_T2	5	8	3	1.98	1.36	-0.62	-1.1	-0.99	1	1	0	600	600	0
2/24/2025 11:48	40201	BEGA_T2	3	4	1	0.17	0.25	0.08	0	0	0	0	0	0	0	0
2/24/2025 11:49	40201	BEGA_T2	3	4	1	0.17	0.25	0.08	0	0	0	0	0	0	0	0
2/24/2025 11:50	10805	CHHI_T2	5	8	3	1.98	1.36	-0.62	-1.1	-0.99	1	1	0	600	600	0
2/24/2025 11:52	20601	GRWO_T2	0	0	0	0	0	0	0.64	0.6	0	0	0	0	0	0
2/24/2025 11:56	55101	WERT_T1	0	0	0	0	0	0	-1.83	-1.72	2	2	0	1500	1500	0
2/24/2025 11:58	55101	WERT_T1	0	0	0	0	0	0	-1.83	-1.72	2	2	0	1500	1500	0
2/24/2025 11:58	14705	TREX_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
2/24/2025 11:58	14704	TREX_T1	1	1	0	8.5	8.5	0	0	0	0	0	0	0	0	0
2/24/2025 11:59	55101	WERT_T1	0	0	0	0	0	0	-5.48	-5.16	6	6	0	4500	4500	0
2/24/2025 12:00	41601	CLEV_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/24/2025 12:00	41602	CLEV_T1	3	1	-2	0.47	0.2	-0.27	0	0	1	1	0	600	600	0
2/24/2025 12:01	52401	GRPA_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/24/2025 12:01	55101	WERT_T1	0	0	0	0	0	0	-1.83	-1.72	2	2	0	1500	1500	0
2/24/2025 12:01	52402	GRPA_T2	13	10	-3	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
2/24/2025 12:01	52403	GRPA_T2	39	16	-23	0.51	0.75	0.24	-1.51	-1.58	0	0	0	0	0	0
2/24/2025 12:02	17804	GILB_T2	1	14	13	0.1	0.6	0.5	0	0	0	0	0	0	0	0
2/24/2025 12:02	17805	GILB_T2	0	1	1	0	0.5	0.5	0.03	0.04	0	0	0	0	0	0
2/24/2025 12:05	52402	GRPA_T2	13	10	-3	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
2/24/2025 12:05	52404	GRPA_T2	0	0	0	0	0	0	-0.04	0.42	0	0	0	0	0	0
2/24/2025 12:05	17805	GILB_T2	0	1	1	0	0.5	0.5	0.03	0.04	0	0	0	0	0	0
2/24/2025 12:05	52401	GRPA_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/24/2025 12:05	52403	GRPA_T2	39	16	-23	0.51	0.75	0.24	0	0	0	0	0	0	0	0
2/24/2025 12:05	17804	GILB_T2	1	14	13	0.1	0.6	0.5	0	0	0	0	0	0	0	0
2/24/2025 12:08	24204	PROV_T3	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
2/24/2025 12:08	24201	PROV_T3	3	3	0	5.37	5.27	-0.1	-1.51	-1.47	1	1	0	1200	1200	0
2/24/2025 12:09	65601	QVIL_T2	5	8	3	0.2	0.44	0.24	-1.24	-1.17	1	1	0	900	900	0
2/24/2025 12:09	65603	QVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 12:09	65602	QVIL_T2	46	48	2	1.81	2.73	0.92	0	0	0	0	0	0	0	0
2/24/2025 12:09	55002	NEWP_T1	12	9	-3	0.69	0.76	0.07	-0.21	-0.2	0	0	0	0	0	0
2/24/2025 12:09	55001	NEWP_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/24/2025 12:10	65601	QVIL_T2	5	8	3	0.2	0.44	0.24	0	0	0	0	0	0	0	0
2/24/2025 12:10	65603	QVIL_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 12:10	55001	NEWP_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/24/2025 12:10	55002	NEWP_T1	12	9	-3	0.69	0.76	0.07	-0.21	-0.2	0	0	0	0	0	0
2/24/2025 12:10	65602	QVIL_T2	46	48	2	1.81	2.73	0.92	0	0	0	0	0	0	0	0
2/24/2025 12:11	62602	ENGL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/24/2025 12:11	55001	NEWP_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/24/2025 12:11	62607	ENGL_T1	0	0	0	0	0	0	-1.03	-1.1	1	1	0	300	300	0
2/24/2025 12:11	62605	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/24/2025 12:11	55002	NEWP_T1	12	9	-3	0.69	0.76	0.07	-0.42	-0.4	0	0	0	0	0	0
2/24/2025 12:12	55002	NEWP_T1	12	9	-3	0.69	0.76	0.07	-0.21	-0.2	0	0	0	0	0	0
2/24/2025 12:12	55001	NEWP_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/24/2025 12:14	40201	BEGA_T2	4	1	-3	0.25	0.3	0.05	0	0	0	0	0	0	0	0
2/24/2025 12:15	44801	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 12:15	41602	CLEV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/24/2025 12:15	41601	CLEV_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/24/2025 12:17	41801	GOCI_T2	11	11	0	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
2/24/2025 12:18	10805	CHHI_T2	6	13	7	1.73	0.92	-0.81	-1.07	-1.1	1	1	0	600	600	0
2/24/2025 12:18	44801	EDAN_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
2/24/2025 12:19	46004	BERW_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/24/2025 12:19	46002	BERW_T2	0	0	0	0	0	0	-0.82	-0.74	1	1	0	900	900	0
2/24/2025 12:21	41801	GOCI_T2	11	11	0	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
2/24/2025 12:22	64202	KINZ_T1	3	4	1	0.27	0.5	0.23	0	0	0	0	0	0	0	0
2/24/2025 12:22	64203	KINZ_T1	0	1	1	0	0.1	0.1	-0.2	-0.16	2	2	0	1800	1800	0
2/24/2025 12:22	64204	KINZ_T1	25	45	20	0.56	0.48	-0.08	0	0	0	0	0	0	0	0
2/24/2025 12:26	67201	TEHI_T1	0	3	3	0	0.75	0.75	0	0	0	0	0	0	0	0
2/24/2025 12:26	67203	TEHI_T1	0	0	0	0	0	0	2.44	2.59	3	3	0	2100	2100	0
2/24/2025 12:27	52401	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/24/2025 12:27	52403	GRPA_T2	15	14	-1	0.73	0.78	0.05	-0.83	-0.82	0	0	0	0	0	0
2/24/2025 12:27	52402	GRPA_T2	8	13	5	0.76	0.74	-0.02	0	0	0	0	0	0	0	0
2/24/2025 12:28	29401	BELT_T1	2	2	0	0.4	0.35	-0.05	0	0	1	1	0	900	900	0
2/24/2025 12:28	41002	LAUR_T2	39	26	-13	0.35	0.29	-0.06	0	0	0	0	0	0	0	0
2/24/2025 12:28	29402	BELT_T1	34	69	35	0.28	0.35	0.07	0	0	0	0	0	0	0	0
2/24/2025 12:28	41001	LAUR_T2	75	73	-2	0.51	0.39	-0.12	0	0	0	0	0	0	0	0
2/24/2025 12:29	67502	WEWI_T2	6	11	5	0.57	0.41	-0.16	0	0	0	0	0	0	0	0
2/24/2025 12:32	52403	GRPA_T2	14	18	4	0.76	0.66	-0.1	-0.83	-0.82	0	0	0	0	0	0
2/24/2025 12:32	52402	GRPA_T2	10	13	3	0.79	0.72	-0.07	0	0	0	0	0	0	0	0
2/24/2025 12:33	52402	GRPA_T2	10	13	3	0.79	0.72	-0.07	0	0	0	0	0	0	0	0
2/24/2025 12:33	52403	GRPA_T2	14	18	4	0.76	0.66	-0.1	-0.83	-0.82	0	0	0	0	0	0
2/24/2025 12:34	41801	GOCI_T2	10	7	-3	0.42	0.33	-0.09	0	0	0	0	0	0	0	0
2/24/2025 12:35	56504	ROCK_T2	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
2/24/2025 12:35	56501	ROCK_T2	74	34	-40	0.73	6.59	5.86	-1.02	-1.2	0	0	0	0	0	0
2/24/2025 12:38	65603	QVIL_T2	0	0	0	0	0	0	0.42	0.49	0	0	0	0	0	0
2/24/2025 12:38	41204	KENM_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
2/24/2025 12:38	64101	REFR_T1	10	14	4	0.58	0.61	0.03	0	0	0	0	0	0	0	0
2/24/2025 12:38	41202	KENM_T2	1	12	11	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/24/2025 12:38	65601	QVIL_T2	8	5	-3	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
2/24/2025 12:38	65602	QVIL_T2	48	47	-1	2.72	2.44	-0.28	0	0	0	0	0	0	0	0
2/24/2025 12:39	64101	REFR_T1	10	14	4	0.58	0.61	0.03	-0.12	-0.14	0	0	0	0	0	0
2/24/2025 12:42	64101	REFR_T1	10	14	4	0.58	0.61	0.03	-0.12	-0.14	0	0	0	0	0	0
2/24/2025 12:43	67402	WAKE_T2	2	3	1	0.3	0.33	0.03	0.42	0.43	1	1	0	600	600	0
2/24/2025 12:43	65604	QVIL_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
2/24/2025 12:43	65602	QVIL_T2	48	47	-1	2.72	2.44	-0.28	0	0	0	0	0	0	0	0
2/24/2025 12:43	65601	QVIL_T2	8	5	-3	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
2/24/2025 12:43	67401	WAKE_T2	4	5	1	0.45	0.42	-0.03	0	0	0	0	0	0	0	0
2/24/2025 12:44	29401	BELT_T1	1	2	1	0.4	0.35	-0.05	0	0	1	1	0	900	900	0
2/24/2025 12:44	29402	BELT_T1	25	71	46	0.28	0.35	0.07	0	0	0	0	0	0	0	0
2/24/2025 12:49	53501	EVIL_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
2/24/2025 12:49	53502	EVIL_T2	0	0	0	0	0	0	0.78	0.91	0	0	0	0	0	0
2/24/2025 12:50	20601	GRWO_T2	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
2/24/2025 12:50	45502	DERR_T2	0	0	0	0	0	0	-0.58	-0.51	0	0	0	0	0	0
2/24/2025 12:50	45501	DERR_T2	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
2/24/2025 12:53	53901	HALI_T2	1	2	1	0.5	0.5	0	-1.02	-1.05	0	0	0	0	0	0
2/24/2025 12:53	52501	PROG_T1	0	0	0	0	0	0	0.48	0.46	1	1	0	300	300	0
2/24/2025 12:53	53902	HALI_T2	2	3	1	2.9	2.13	-0.77	0	0	0	0	0	0	0	0
2/24/2025 12:53	53903	HALI_T2	4	3	-1	0.48	0.5	0.02	0	0	0	0	0	0	0	0
2/24/2025 12:54	52501	PROG_T1	0	0	0	0	0	0	0.48	0.46	1	1	0	300	300	0
2/24/2025 12:55	52501	PROG_T1	0	0	0	0	0	0	0.48	0.46	1	1	0	300	300	0
2/24/2025 12:56	67201	TEHI_T1	3	3	0	1.5	0.77	-0.73	-0.12	-0.09	1	1	0	900	900	0
2/24/2025 12:56	52502	PROG_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
2/24/2025 12:56	52501	PROG_T1	0	0	0	0	0	0	0.48	0.46	1	1	0	300	300	0
2/24/2025 12:57	42701	AUGU_T1	3	5	2	0.67	0.66	-0.01	0	0	2	2	0	1800	1800	0
2/24/2025 12:57	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 12:58	13905	SEID_T1	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
2/24/2025 12:58	10602	BLGL_T2	2	2	0	0.6	0.45	-0.15	0.23	0.24	0	0	0	0	0	0
2/24/2025 12:58	13901	SEID_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/24/2025 13:01	41601	CLEV_T1	1	1	0	1.3	0.7	-0.6	0	0	0	0	0	0	0	0
2/24/2025 13:01	41602	CLEV_T1	2	1	-1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
2/24/2025 13:02	41602	CLEV_T1	2	1	-1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
2/24/2025 13:02	41301	FISH_T1	3	3	0	1.97	2.1	0.13	-0.75	-0.27	0	0	0	0	0	0
2/24/2025 13:02	41305	FISH_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/24/2025 13:02	41601	CLEV_T1	1	1	0	1.3	0.7	-0.6	0	0	0	0	0	0	0	0
2/24/2025 13:04	52402	GRPA_T2	10	8	-2	0.55	0.59	0.04	0	0	0	0	0	0	0	0
2/24/2025 13:04	52403	GRPA_T2	16	32	16	0.7	0.49	-0.21	-0.8	-0.72	0	0	0	0	0	0
2/24/2025 13:04	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/24/2025 13:05	55003	NEWP_T2	0	0	0	0	0	0	-0.86	-0.83	1	1	0	600	600	0
2/24/2025 13:13	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 13:17	41602	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/24/2025 13:17	41601	CLEV_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
2/24/2025 13:18	41601	CLEV_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
2/24/2025 13:18	41602	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/24/2025 13:23	64101	REFR_T1	5	6	1	0.74	0.83	0.09	-0.14	-0.13	0	0	0	0	0	0
2/24/2025 13:24	64101	REFR_T1	5	6	1	0.74	0.83	0.09	-0.28	-0.26	0	0	0	0	0	0
2/24/2025 13:26	64101	REFR_T1	5	6	1	0.74	0.83	0.09	-0.42	-0.39	0	0	0	0	0	0
2/24/2025 13:27	58401	MORO_T1	0	1	1	0	0.2	0.2	-1.19	-1.18	1	1	0	600	600	0
2/24/2025 13:27	64101	REFR_T1	5	6	1	0.74	0.83	0.09	-0.28	-0.26	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/24/2025 13:28	58401	MORO_T1	0	1	1	0	0.2	0.2	-1.19	-1.18	1	1	0	600	600	0
2/24/2025 13:28	64101	REFR_T1	5	6	1	0.74	0.83	0.09	-0.14	-0.13	0	0	0	0	0	0
2/24/2025 13:30	52401	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/24/2025 13:30	40505	CRES_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/24/2025 13:30	52403	GRPA_T2	14	7	-7	0.62	0.56	-0.06	-0.77	-0.79	0	0	0	0	0	0
2/24/2025 13:30	52402	GRPA_T2	7	11	4	0.63	0.65	0.02	0	0	0	0	0	0	0	0
2/24/2025 13:30	40501	CRES_T2	8	9	1	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
2/24/2025 13:31	40505	CRES_T1	1	0	-1	0.3	0	-0.3	1.2	1.35	0	0	0	0	0	0
2/24/2025 13:31	40501	CRES_T2	8	9	1	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
2/24/2025 13:32	40501	CRES_T2	8	9	1	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
2/24/2025 13:32	40505	CRES_T1	1	0	-1	0.3	0	-0.3	0.8	0.9	0	0	0	0	0	0
2/24/2025 13:38	54505	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/24/2025 13:38	54504	ENOL_T2	0	0	0	0	0	0	-1.11	-1.02	1	1	0	600	600	0
2/24/2025 13:40	53901	HALI_T2	1	2	1	0.2	0.55	0.35	-1.02	-1.04	0	0	0	0	0	0
2/24/2025 13:40	53902	HALI_T2	2	3	1	2.85	2.17	-0.68	0	0	0	0	0	0	0	0
2/24/2025 13:40	53903	HALI_T2	5	4	-1	0.5	1	0.5	0	0	0	0	0	0	0	0
2/24/2025 13:43	41602	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/24/2025 13:43	41601	CLEV_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
2/24/2025 13:45	41601	CLEV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/24/2025 13:46	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/24/2025 13:46	52403	GRPA_T2	8	7	-1	0.68	0.6	-0.08	-0.79	-0.7	0	0	0	0	0	0
2/24/2025 13:46	52402	GRPA_T2	11	6	-5	0.61	0.92	0.31	0	0	0	0	0	0	0	0
2/24/2025 13:48	20601	GRWO_T2	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
2/24/2025 13:48	20602	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 13:52	53903	HALI_T2	4	4	0	0.85	1	0.15	0	0	0	0	0	0	0	0
2/24/2025 13:52	53901	HALI_T2	1	2	1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
2/24/2025 13:52	53902	HALI_T2	1	3	2	5.6	2.17	-3.43	-0.89	-0.91	0	0	0	0	0	0
2/24/2025 13:53	53802	MBRG_T2	0	0	0	0	0	0	1.13	1.12	0	0	0	0	0	0
2/24/2025 13:53	53801	MBRG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/24/2025 13:56	13302	ORVI_T2	2	1	-1	1.15	1.9	0.75	1.29	1.29	0	0	0	0	0	0
2/24/2025 13:56	64101	REFR_T1	4	8	4	0.98	0.58	-0.4	-0.13	-0.15	0	0	0	0	0	0
2/24/2025 13:57	53801	MBRG_T2	0	1	1	0	0.2	0.2	-1.92	-1.87	0	0	0	0	0	0
2/24/2025 13:59	41601	CLEV_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/24/2025 14:00	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 14:00	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
2/24/2025 14:01	46206	DANV_T2	0	0	0	0	0	0	1.47	1.4	2	2	0	2100	2100	0
2/24/2025 14:01	46203	DANV_T2	150	160	10	0.49	0.52	0.03	0	0	0	0	0	0	0	0
2/24/2025 14:01	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 14:02	67901	WNHO_T2	0	1	1	0	0.1	0.1	0.62	0.34	1	1	0	900	900	0
2/24/2025 14:06	46203	DANV_T2	150	160	10	0.49	0.52	0.03	-1.17	-1.16	0	0	0	0	0	0
2/24/2025 14:06	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 14:09	46203	DANV_T2	150	160	10	0.49	0.52	0.03	-1.17	-1.16	0	0	0	0	0	0
2/24/2025 14:09	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 14:10	64101	REFR_T1	7	6	-1	0.61	0.65	0.04	-0.15	-0.12	0	0	0	0	0	0
2/24/2025 14:12	14603	SWHI_T1	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
2/24/2025 14:12	14601	SWHI_T1	0	0	0	0	0	0	-1.54	-1.55	0	0	0	0	0	0
2/24/2025 14:16	14603	SWHI_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
2/24/2025 14:16	14604	SWHI_T1	0	0	0	0	0	0	-0.09	-0.04	1	1	0	900	900	0
2/24/2025 14:18	52402	GRPA_T2	6	8	2	0.6	0.76	0.16	0	0	0	0	0	0	0	0
2/24/2025 14:18	52401	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/24/2025 14:18	52403	GRPA_T2	2	2	0	1.1	0.6	-0.5	-0.78	-0.85	0	0	0	0	0	0
2/24/2025 14:19	63601	LETO_T1	3	2	-1	0.2	0.2	0	0.56	0.78	1	1	0	900	900	0
2/24/2025 14:27	64101	REFR_T1	5	6	1	0.76	0.6	-0.16	-0.12	-0.14	0	0	0	0	0	0
2/24/2025 14:31	67201	TEHI_T1	3	1	-2	0.3	0.2	-0.1	0.03	-0.1	1	1	0	900	900	0
2/24/2025 14:33	64101	REFR_T1	5	6	1	0.64	0.6	-0.04	-0.12	-0.14	0	0	0	0	0	0
2/24/2025 14:34	10903	COOP_T2	10	4	-6	0.32	0.45	0.13	-0.39	-0.34	1	1	0	600	600	0
2/24/2025 14:43	64101	REFR_T1	5	6	1	0.64	0.6	-0.04	-0.14	-0.14	0	0	0	0	0	0
2/24/2025 14:45	54201	PENN_T1	8	8	0	0.94	0.99	0.05	0	0	0	0	0	0	0	0
2/24/2025 14:45	54203	PENN_T1	18	18	0	0.74	0.9	0.16	-0.05	-0.09	0	0	0	0	0	0
2/24/2025 14:45	59101	WALK_T2	0	1	1	0	0	0	1.33	1.38	1	1	0	600	600	0
2/24/2025 14:54	48302	ORWI_T2	2	2	0	0.65	0.8	0.15	-0.71	-0.66	0	0	0	0	0	0
2/24/2025 14:58	64101	REFR_T1	6	2	-4	0.6	1.05	0.45	-0.14	-0.14	0	0	0	0	0	0
2/24/2025 14:59	44301	BEAV_T2	0	0	0	0	0	0	0.01	-0.02	1	1	0	600	600	0
2/24/2025 15:02	67401	WAKE_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/24/2025 15:02	67402	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 15:04	44301	BEAV_T2	0	0	0	0	0	0	0.01	-0.02	1	1	0	600	600	0
2/24/2025 15:04	44502	HAMI_T2	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
2/24/2025 15:04	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 15:05	21403	EXET_T2	0	0	0	0	0	0	-1.35	-1.34	0	0	0	0	0	0
2/24/2025 15:05	60801	BUCK_T1	1	0	-1	0.1	0	-0.1	-0.02	0	0	0	0	0	0	0
2/24/2025 15:05	21402	EXET_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/24/2025 15:07	44502	HAMI_T2	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
2/24/2025 15:07	44505	HAMI_T2	0	0	0	0	0	0	0.5	0.45	0	0	0	0	0	0
2/24/2025 15:08	44502	HAMI_T2	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
2/24/2025 15:08	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 15:09	44505	HAMI_T2	0	0	0	0	0	0	0.5	0.45	0	0	0	0	0	0
2/24/2025 15:09	44502	HAMI_T2	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
2/24/2025 15:11	52501	PROG_T1	0	0	0	0	0	0	0.43	0.47	1	1	0	300	300	0
2/24/2025 15:11	43802	SWIL_T1	0	0	0	0	0	0	-0.24	-0.25	1	1	0	600	600	0
2/24/2025 15:11	43801	SWIL_T1	1	2	1	5.2	2.85	-2.35	0	0	0	0	0	0	0	0
2/24/2025 15:13	46504	LOHA_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
2/24/2025 15:13	64101	REFR_T1	2	2	0	1.05	0.45	-0.6	-0.14	-0.13	0	0	0	0	0	0
2/24/2025 15:13	67904	WNHO_T1	0	0	0	0	0	0	-2.15	-2.16	2	2	0	2100	2100	0
2/24/2025 15:13	46506	LOHA_T1	3	4	1	3.3	3	-0.3	0	0	0	0	0	0	0	0
2/24/2025 15:13	46503	LOHA_T1	0	0	0	0	0	0	-1.24	-1.22	0	0	0	0	0	0
2/24/2025 15:15	43801	SWIL_T1	1	2	1	5	3.05	-1.95	0	0	0	0	0	0	0	0
2/24/2025 15:15	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 15:19	46001	BERW_T1	0	0	0	0	0	0	0.64	0.66	0	0	0	0	0	0
2/24/2025 15:23	46001	BERW_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
2/24/2025 15:27	67903	WNHO_T1	0	0	0	0	0	0	1.11	1.14	1	1	0	1200	1200	0
2/24/2025 15:32	24101	EHAZ_T1	34	24	-10	2.28	1.66	-0.62	0	0	0	0	0	0	0	0
2/24/2025 15:32	24103	EHAZ_T1	0	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0
2/24/2025 15:32	24102	EHAZ_T1	14	8	-6	0.98	0	-0.98	0.02	-0.31	0	0	0	0	0	0
2/24/2025 15:32	24105	EHAZ_T1	4	4	0	6.95	6.65	-0.3	0	0	0	0	0	0	0	0
2/24/2025 15:38	46101	MACI_T2	0	0	0	0	0	0	-0.12	0.04	1	1	0	1200	1200	0
2/24/2025 15:39	40101	HUNT_T2	1	0	-1	1.2	0	-1.2	-1.26	-1.42	0	0	0	0	0	0
2/24/2025 15:40	40601	PIGR_T1	2	0	-2	0.1	0	-0.1	0.01	0	0	0	0	0	0	0
2/24/2025 15:41	40601	PIGR_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/24/2025 15:43	40601	PIGR_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/24/2025 15:45	40602	PIGR_T1	0	0	0	0	0	0	0.08	0.03	0	0	0	0	0	0
2/24/2025 15:45	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 15:50	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.15	1	1	0	600	600	0
2/24/2025 15:50	57002	WHIH_T2	0	0	0	0	0	0	-2.46	-2.48	1	1	0	1200	1200	0
2/24/2025 16:02	10602	BLGL_T2	0	0	0	0	0	0	-0.05	-0.02	0	0	0	0	0	0
2/24/2025 16:12	13904	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 16:12	13905	SEID_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
2/24/2025 16:14	67901	WNHO_T2	0	0	0	0	0	0	0.06	-0.08	1	1	0	900	900	0
2/24/2025 16:15	54203	PENN_T1	18	18	0	0.79	0.31	-0.48	-0.11	-0.14	0	0	0	0	0	0
2/24/2025 16:15	54201	PENN_T1	8	4	-4	1	1.18	0.18	0	0	0	0	0	0	0	0
2/24/2025 16:18	16301	ALPA_T1	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
2/24/2025 16:19	46004	BERW_T2	0	1	1	0	0	0	-0.59	-0.58	0	0	0	0	0	0
2/24/2025 16:27	59002	MIFF_T1	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
2/24/2025 16:27	59003	MIFF_T1	0	0	0	0	0	0	-1.32	-1.05	0	0	0	0	0	0
2/24/2025 16:49	46004	BERW_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
2/24/2025 16:49	46002	BERW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 16:49	44801	EDAN_T2	0	0	0	0	0	0	-0.47	-0.39	0	0	0	0	0	0
2/24/2025 17:06	44801	EDAN_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
2/24/2025 17:17	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/24/2025 17:17	29402	BELT_T1	1	1	0	8.8	9	0.2	0	0	0	0	0	0	0	0
2/24/2025 19:22	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:22	66505	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/24/2025 19:24	45002	LIME_2	1	1	0	4.3	5.7	1.4	0	0	0	0	0	0	0	0
2/24/2025 19:24	45001	LIME_2	3	8	5	1.03	0.1	-0.93	0	0	0	0	0	0	0	0
2/24/2025 19:24	45003	LIME_2	22	42	20	0.54	0.71	0.17	0.3	0.3	0	0	0	0	0	0
2/24/2025 19:26	16103	BING_T2	0	0	0	0	0	0	-1.7	-1.68	1	1	0	900	900	0
2/24/2025 19:30	16101	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:30	16102	BING_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
2/24/2025 19:36	52402	GRPA_T2	10	3	-7	0.57	0.6	0.03	0	0	0	0	0	0	0	0
2/24/2025 19:36	52403	GRPA_T2	0	2	2	0	0	0	-1.21	-1.23	0	0	0	0	0	0
2/24/2025 19:36	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:40	46204	DANV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/24/2025 19:40	10805	CHHI_T2	7	6	-1	1.61	8.4	6.79	-1.4	-1.51	1	1	0	600	600	0
2/24/2025 19:40	46203	DANV_T2	103	147	44	0.51	0.64	0.13	-4.55	-4.64	0	0	0	0	0	0
2/24/2025 19:41	29402	BELT_T1	1	1	0	8.2	8.4	0.2	0	0	0	0	0	0	0	0
2/24/2025 19:42	17002	RIRO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:42	17805	GILB_T2	0	0	0	0	0	0	-0.02	-0.07	0	0	0	0	0	0
2/24/2025 19:42	29402	BELT_T1	1	1	0	8.2	8.4	0.2	0	0	0	0	0	0	0	0
2/24/2025 19:44	17401	FOHI_T1	0	0	0	0	0	0	-1.1	-0.99	0	0	0	0	0	0
2/24/2025 19:44	17805	GILB_T2	0	0	0	0	0	0	-0.02	-0.07	0	0	0	0	0	0
2/24/2025 19:44	46204	DANV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/24/2025 19:44	46203	DANV_T2	103	147	44	0.51	0.64	0.13	-2.28	-2.32	0	0	0	0	0	0
2/24/2025 19:44	17802	GILB_T1	0	1	1	0	0.1	0.1	0.1	0.14	0	0	0	0	0	0
2/24/2025 19:45	29402	BELT_T1	1	1	0	8.2	8.6	0.4	0	0	0	0	0	0	0	0
2/24/2025 19:45	20601	GRWO_T2	1	1	0	1.4	0.2	-1.2	0.16	0.15	0	0	0	0	0	0
2/24/2025 19:45	46001	BERW_T1	0	0	0	0	0	0	0.56	0.6	0	0	0	0	0	0
2/24/2025 19:45	46002	BERW_T2	0	0	0	0	0	0	-1.14	-1.08	1	1	0	900	900	0
2/24/2025 19:45	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/24/2025 19:46	16302	ALPA_T2	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
2/24/2025 19:46	41301	FISH_T1	2	3	1	1	0.9	-0.1	-0.75	-0.75	0	0	0	0	0	0
2/24/2025 19:46	14604	SWHI_T1	0	0	0	0	0	0	-0.05	-0.07	1	1	0	900	900	0
2/24/2025 19:46	14704	TREX_T1	1	1	0	8.8	8.7	-0.1	0	0	0	0	0	0	0	0
2/24/2025 19:46	13904	SEID_T1	15	21	6	0.6	1.1	0.5	0	0	0	0	0	0	0	0
2/24/2025 19:46	46204	DANV_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/24/2025 19:46	46203	DANV_T2	87	148	61	0.5	0.64	0.14	-2.28	-2.32	0	0	0	0	0	0
2/24/2025 19:46	10805	CHHI_T2	6	1	-5	1.53	8.2	6.67	-2.8	-3.03	2	2	0	1200	1200	0
2/24/2025 19:46	10801	CHHI_T1	0	1	1	0	0	0	-4.25	-4.4	6	6	0	4200	4200	0
2/24/2025 19:46	13905	SEID_T1	0	0	0	0	0	0	0.32	0.28	0	0	0	0	0	0
2/24/2025 19:46	14705	TREX_T1	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
2/24/2025 19:47	66505	SMAN_T2	2	3	1	0.15	0.7	0.55	0	0	0	0	0	0	0	0
2/24/2025 19:47	25501	MADI_T1	2	2	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
2/24/2025 19:47	41301	FISH_T1	2	3	1	1	0.9	-0.1	0	0	0	0	0	0	0	0
2/24/2025 19:47	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:47	25503	MADI_T1	15	63	48	0.12	0.2	0.08	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/24/2025 19:47	22602	KIMB_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
2/24/2025 19:48	64201	KINZ_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
2/24/2025 19:48	10903	COOP_T2	0	0	0	0	0	0	-0.31	-0.33	1	1	0	600	600	0
2/24/2025 19:48	46602	LACR_T1	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
2/24/2025 19:48	40602	PIGR_T1	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
2/24/2025 19:48	46203	DANV_T2	87	148	61	0.5	0.64	0.14	-2.28	-2.32	0	0	0	0	0	0
2/24/2025 19:48	13904	SEID_T1	15	21	6	0.6	1.1	0.5	0	0	0	0	0	0	0	0
2/24/2025 19:48	13901	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:48	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:48	64203	KINZ_T1	0	0	0	0	0	0	-0.44	-0.41	1	1	0	600	600	0
2/24/2025 19:48	46204	DANV_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/24/2025 19:48	40505	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:48	64204	KINZ_T1	1	2	1	0.5	1	0.5	0	0	0	0	0	0	0	0
2/24/2025 19:49	24101	EHAZ_T1	14	21	7	1.42	1.1	-0.32	0	0	0	0	0	0	0	0
2/24/2025 19:49	43801	SWIL_T1	2	2	0	3.15	3.15	0	0	0	0	0	0	0	0	0
2/24/2025 19:49	43802	SWIL_T1	0	0	0	0	0	0	-0.23	-0.21	1	1	0	600	600	0
2/24/2025 19:49	29402	BELT_T1	1	1	0	8.2	8.6	0.4	0	0	0	0	0	0	0	0
2/24/2025 19:49	24105	EHAZ_T1	4	4	0	6.7	6.65	-0.05	0	0	0	0	0	0	0	0
2/24/2025 19:49	29401	BELT_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/24/2025 19:49	24103	EHAZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/24/2025 19:49	21403	EXET_T2	0	0	0	0	0	0	-1.39	-1.39	0	0	0	0	0	0
2/24/2025 19:49	24102	EHAZ_T1	4	7	3	0.3	0.2	-0.1	-0.39	-0.37	0	0	0	0	0	0
2/24/2025 19:49	40101	HUNT_T2	19	7	-12	0.32	0.65	0.33	-1.42	-1.46	0	0	0	0	0	0
2/24/2025 19:50	10801	CHHI_T1	0	1	1	0	0	0	-2.13	-2.2	3	3	0	2100	2100	0
2/24/2025 19:50	40602	PIGR_T1	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
2/24/2025 19:50	66505	SMAN_T2	2	3	1	0.15	0.7	0.55	0	0	0	0	0	0	0	0
2/24/2025 19:50	13103	NHAM_T2	0	0	0	0	0	0	-1.74	-1.72	1	1	0	600	600	0
2/24/2025 19:50	66504	SMAN_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
2/24/2025 19:50	46204	DANV_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/24/2025 19:50	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:50	62607	ENGL_T1	1	0	-1	3.1	0	-3.1	-1.07	-1.09	1	1	0	300	300	0
2/24/2025 19:50	40201	BEGA_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/24/2025 19:50	22602	KIMB_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
2/24/2025 19:50	46203	DANV_T2	87	148	61	0.5	0.64	0.14	-2.28	-2.32	0	0	0	0	0	0
2/24/2025 19:50	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:50	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:50	46101	MACI_T2	0	0	0	0	0	0	-0.61	-0.61	1	1	0	1200	1200	0
2/24/2025 19:51	46204	DANV_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/24/2025 19:51	55003	NEWP_T2	0	0	0	0	0	0	-0.81	-0.73	1	1	0	600	600	0
2/24/2025 19:51	53901	HALI_T2	3	2	-1	0.4	0.5	0.1	-1.47	-1.48	0	0	0	0	0	0
2/24/2025 19:51	46504	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:51	53903	HALI_T2	2	2	0	0.85	1.3	0.45	0	0	0	0	0	0	0	0
2/24/2025 19:51	46803	HEPB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:51	24201	PROV_T3	3	3	0	5.93	5.37	-0.56	-1.47	-1.47	1	1	0	1200	1200	0
2/24/2025 19:51	54201	PENN_T1	6	6	0	1.08	0.9	-0.18	-1.34	-1.31	0	0	0	0	0	0
2/24/2025 19:51	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
2/24/2025 19:51	65601	QVIL_T2	0	0	0	0	0	0	-1.23	-1.23	1	1	0	900	900	0
2/24/2025 19:51	45702	LIND_T2	1	1	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
2/24/2025 19:51	67904	WNHO_T1	0	0	0	0	0	0	-2.18	-2.2	2	2	0	2100	2100	0
2/24/2025 19:51	46203	DANV_T2	87	148	61	0.5	0.64	0.14	0	0	0	0	0	0	0	0
2/24/2025 19:51	46206	DANV_T2	0	0	0	0	0	0	1.55	1.54	2	2	0	2100	2100	0
2/24/2025 19:51	46501	LOHA_T1	2	1	-1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
2/24/2025 19:51	45502	DERR_T2	3	4	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
2/24/2025 19:51	51202	MTON_T2	0	0	0	0	0	0	-1.1	-1.07	1	1	0	1200	1200	0
2/24/2025 19:51	55101	WERT_T1	0	0	0	0	0	0	-1.44	-1.46	2	2	0	1500	1500	0
2/24/2025 19:51	53902	HALI_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
2/24/2025 19:51	24204	PROV_T3	2	2	0	2.85	2.95	0.1	0	0	0	0	0	0	0	0
2/24/2025 19:51	46506	LOHA_T1	3	3	0	2.07	2.73	0.66	0	0	0	0	0	0	0	0
2/24/2025 19:51	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:51	41602	CLEV_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/24/2025 19:51	45701	LIND_T2	0	0	0	0	0	0	-1.66	-1.66	0	0	0	0	0	0
2/24/2025 19:51	54203	PENN_T1	18	0	-18	0.68	0.54	-0.14	0	0	0	0	0	0	0	0
2/24/2025 19:51	53501	EVIL_T2	1	1	0	0.2	0.2	0	-1.17	-1.1	1	1	0	600	600	0
2/24/2025 19:51	40201	BEGA_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/24/2025 19:51	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.8	0.94	4	4	0	3600	3600	0
2/24/2025 19:51	67402	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:52	40601	PIGR_T1	0	0	0	0	0	0	-0.19	-0.17	0	0	0	0	0	0
2/24/2025 19:52	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:52	54201	PENN_T1	6	6	0	1.08	0.9	-0.18	-1.31	-1.31	0	0	0	0	0	0
2/24/2025 19:52	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/24/2025 19:52	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.4	0.47	2	2	0	1800	1800	0
2/24/2025 19:52	46001	BERW_T1	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
2/24/2025 19:52	41902	REED_T1	1	1	0	0.2	0	-0.2	0.39	0.39	2	2	0	1800	1800	0
2/24/2025 19:52	45702	LIND_T2	1	1	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
2/24/2025 19:52	63601	LETO_T1	0	0	0	0	0	0	0.89	0.95	1	1	0	900	900	0
2/24/2025 19:52	45502	DERR_T2	3	4	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
2/24/2025 19:52	46203	DANV_T2	87	148	61	0.5	0.64	0.14	-2.32	-1.04	0	0	0	0	0	0
2/24/2025 19:52	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:52	55002	NEWP_T1	6	3	-3	0.52	0.63	0.11	-0.27	-0.27	0	0	0	0	0	0
2/24/2025 19:52	46204	DANV_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/24/2025 19:52	41602	CLEV_T1	1	0	-1	0.4	0	-0.4	0	0	1	1	0	600	600	0
2/24/2025 19:52	40602	PIGR_T1	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
2/24/2025 19:52	45701	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:52	54203	PENN_T1	18	18	0	0.68	0.54	-0.14	0	0	0	0	0	0	0	0
2/24/2025 19:52	40501	CRES_T2	10	8	-2	0.29	0.21	-0.08	0	0	0	0	0	0	0	0
2/24/2025 19:52	40201	BEGA_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/24/2025 19:52	64101	REFR_T1	0	0	0	0	0	0	-0.26	-0.36	0	0	0	0	0	0
2/24/2025 19:53	65207	PRIN_T4	3	5	2	1.77	1.68	-0.09	0	0	0	0	0	0	0	0
2/24/2025 19:53	52403	GRPA_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/24/2025 19:53	65201	PRIN_T4	0	1	1	0	0	0	0	0	1	1	0	600	600	0
2/24/2025 19:53	46203	DANV_T2	87	148	61	0.5	0.64	0.14	0	0	87	0	0	0	0	0
2/24/2025 19:53	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
2/24/2025 19:53	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:53	40101	HUNT_T2	19	7	-12	0.32	0.65	0.33	-1.46	-1.49	0	0	0	0	0	0
2/24/2025 19:53	54201	PENN_T1	6	6	0	1.08	0.9	-0.18	-1.31	-1.31	0	0	0	0	0	0
2/24/2025 19:53	40501	CRES_T2	10	8	-2	0.29	0.21	-0.08	0	0	0	0	0	0	0	0
2/24/2025 19:53	46803	HEPB_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
2/24/2025 19:53	46204	DANV_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/24/2025 19:53	52404	GRPA_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
2/24/2025 19:53	46206	DANV_T2	0	0	0	0	0	0	1.55	1.54	2	2	0	2100	2100	0
2/24/2025 19:53	44502	HAMI_T2	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
2/24/2025 19:53	54203	PENN_T1	18	18	0	0.68	0.54	-0.14	0	0	0	0	0	0	0	0
2/24/2025 19:53	44301	BEAV_T2	1	0	-1	0.5	0	-0.5	0.3	0.27	1	1	0	600	600	0
2/24/2025 19:53	48302	ORWI_T2	2	2	0	0.3	0.45	0.15	-0.69	-0.71	0	0	0	0	0	0
2/24/2025 19:53	43801	SWIL_T1	2	2	0	3.15	3.15	0	0	0	0	0	0	0	0	0
2/24/2025 19:53	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.4	0.47	2	2	0	1800	1800	0
2/24/2025 19:53	45502	DERR_T2	3	4	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
2/24/2025 19:53	52402	GRPA_T2	2	5	3	0.85	0.6	-0.25	0	0	0	0	0	0	0	0
2/24/2025 19:53	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:53	44501	HAMI_T2	4	0	-4	0.85	0	-0.85	0	0	0	0	0	0	0	0
2/24/2025 19:53	57403	SPAN_T1	0	0	0	0	0	0	0.11	0.05	0	0	0	0	0	0
2/24/2025 19:53	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:53	59101	WALK_T2	0	0	0	0	0	0	1.19	1.05	0	0	0	0	0	0
2/24/2025 19:54	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:54	51202	MTON_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:54	57401	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:54	55002	NEWP_T1	6	3	-3	0.52	0.63	0.11	-0.27	-0.27	0	0	0	0	0	0
2/24/2025 19:54	65603	QVIL_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
2/24/2025 19:54	52501	PROG_T1	0	0	0	0	0	0	0.45	0.45	1	1	0	300	300	0
2/24/2025 19:54	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.4	0.47	2	2	0	1800	1800	0
2/24/2025 19:54	44801	EDAN_T2	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
2/24/2025 19:54	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:54	54201	PENN_T1	6	6	0	1.08	0.9	-0.18	-1.31	-1.31	0	0	0	0	0	0
2/24/2025 19:54	40501	CRES_T2	10	8	-2	0.29	0.21	-0.08	0	0	0	0	0	0	0	0
2/24/2025 19:54	45502	DERR_T2	3	4	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
2/24/2025 19:54	40505	CRES_T1	0	0	0	0	0	0	0.96	0.98	0	0	0	0	0	0
2/24/2025 19:54	53501	EVIL_T2	1	1	0	0.2	0.2	0	-2.19	-2.1	2	2	0	1200	1200	0
2/24/2025 19:54	53601	DALM_T2	0	1	1	0	0.3	0.3	-0.2	-0.13	0	0	0	0	0	0
2/24/2025 19:54	47802	MOCA_T2	0	0	0	0	0	0	-0.97	-0.96	0	0	0	0	0	0
2/24/2025 19:54	46801	HEPB_T2	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
2/24/2025 19:54	14601	SWHI_T1	0	0	0	0	0	0	-1.52	-1.49	0	0	0	0	0	0
2/24/2025 19:54	54203	PENN_T1	18	18	0	0.68	0.54	-0.14	0	0	0	0	0	0	0	0
2/24/2025 19:55	52402	GRPA_T2	2	5	3	0.85	0.6	-0.25	0	0	0	0	0	0	0	0
2/24/2025 19:55	66505	SMAN_T2	2	3	1	0.15	0.7	0.55	-0.57	-0.48	1	1	0	900	900	0
2/24/2025 19:55	46204	DANV_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/24/2025 19:55	53501	EVIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/24/2025 19:55	40505	CRES_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
2/24/2025 19:55	46801	HEPB_T2	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
2/24/2025 19:55	47203	FAXO_T2	0	0	0	0	0	0	-1.75	-1.79	1	1	0	1200	1200	0
2/24/2025 19:55	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/24/2025 19:55	67903	WNHO_T1	0	0	0	0	0	0	1.1	1.07	1	1	0	1200	1200	0
2/24/2025 19:55	54201	PENN_T1	6	6	0	1.08	0.9	-0.18	0	0	0	0	0	0	0	0
2/24/2025 19:55	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:55	54203	PENN_T1	18	18	0	0.68	0.54	-0.14	-0.26	-0.23	0	0	0	0	0	0
2/24/2025 19:55	52501	PROG_T1	0	0	0	0	0	0	0.45	0.45	1	1	0	300	300	0
2/24/2025 19:55	52403	GRPA_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/24/2025 19:55	52401	GRPA_T2	0	0	0	0	0	0	-1.7	-1.56	0	0	0	0	0	0
2/24/2025 19:55	64802	MONE_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
2/24/2025 19:55	46203	DANV_T2	87	148	61	0.5	0.64	0.14	-2.32	-1.04	0	0	0	0	0	0
2/24/2025 19:55	53801	MBRG_T2	2	0	-2	0.1	0	-0.1	-1.98	-1.99	0	0	0	0	0	0
2/24/2025 19:56	44505	HAMI_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
2/24/2025 19:56	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:56	44502	HAMI_T2	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
2/24/2025 19:56	10805	CHHI_T2	6	1	-5	1.53	8.2	6.67	-1.51	-1.52	1	1	0	600	600	0
2/24/2025 19:56	54504	ENOL_T2	0	0	0	0	0	0	-1.05	-1.06	1	1	0	600	600	0
2/24/2025 19:56	58102	NEKI_T1	1	1	0	1.2	1	-0.2	-1.2	-1.06	1	1	0	1200	1200	0
2/24/2025 19:56	55002	NEWP_T1	6	3	-3	0.52	0.63	0.11	-0.27	-0.27	0	0	0	0	0	0
2/24/2025 19:56	66502	SMAN_T2	0	0	0	0	0	0	-0.04	-0.09	0	0	0	0	0	0
2/24/2025 19:56	41902	REED_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/24/2025 19:56	66505	SMAN_T2	2	3	1	0.15	0.7	0.55	0	0	0	0	0	0	0	0
2/24/2025 19:56	44501	HAMI_T2	4	0	-4	0.85	0	-0.85	0	0	0	0	0	0	0	0
2/24/2025 19:56	44301	BEAV_T2	1	0	-1	0.5	0	-0.5	0.3	0.27	1	1	0	600	600	0
2/24/2025 19:56	64801	MONE_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/24/2025 19:56	40101	HUNT_T2	19	7	-12	0.32	0.65	0.33	0	0	0	0	0	0	0	0
2/24/2025 19:56	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
2/24/2025 19:56	40201	BEGA_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/24/2025 19:56	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/24/2025 19:57	59101	WALK_T2	0	0	0	0	0	0	1.19	1.05	0	0	0	0	0	0
2/24/2025 19:57	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
2/24/2025 19:57	52404	GRPA_T2	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
2/24/2025 19:57	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:57	52402	GRPA_T2	2	5	3	0.85	0.6	-0.25	0	0	0	0	0	0	0	0
2/24/2025 19:57	64801	MONE_T2	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
2/24/2025 19:57	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:57	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
2/24/2025 19:57	40201	BEGA_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/24/2025 19:57	46004	BERW_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
2/24/2025 19:57	57002	WHHI_T2	0	0	0	0	0	0	-2.49	-2.53	1	1	0	1200	1200	0
2/24/2025 19:57	59003	MIFF_T1	0	0	0	0	0	0	-0.58	-0.46	0	0	0	0	0	0
2/24/2025 19:57	65205	PRIN_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
2/24/2025 19:57	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:57	44801	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:57	65202	PRIN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/24/2025 19:57	41602	CLEV_T1	1	0	-1	0.4	0	-0.4	0	0	1	1	0	600	600	0
2/24/2025 19:57	52403	GRPA_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/24/2025 19:57	40602	PIGR_T1	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
2/24/2025 19:57	55101	WERT_T1	0	0	0	0	0	0	-1.46	-1.51	2	2	0	1500	1500	0
2/24/2025 19:58	16301	ALPA_T1	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
2/24/2025 19:58	44502	HAMI_T2	1	1	0	2.8	3	0.2	0	0	0	0	0	0	0	0
2/24/2025 19:58	44801	EDAN_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
2/24/2025 19:58	51202	MTON_T2	0	0	0	0	0	0	-1.07	-1.08	1	1	0	1200	1200	0
2/24/2025 19:58	55002	NEWP_T1	6	3	-3	0.52	0.63	0.11	-0.27	-0.27	0	0	0	0	0	0
2/24/2025 19:58	53902	HALI_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
2/24/2025 19:58	51201	MTON_T1	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
2/24/2025 19:58	67402	WAKE_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
2/24/2025 19:58	11804	FRAN_T1	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
2/24/2025 19:58	53903	HALI_T2	2	2	0	0.85	1.3	0.45	0	0	0	0	0	0	0	0
2/24/2025 19:58	52501	PROG_T1	0	0	0	0	0	0	0.45	0.45	1	1	0	300	300	0
2/24/2025 19:58	44501	HAMI_T2	4	0	-4	0.85	0	-0.85	0	0	0	0	0	0	0	0
2/24/2025 19:58	52403	GRPA_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/24/2025 19:58	67401	WAKE_T2	0	0	0	0	0	0	-1.22	-1.23	0	0	0	0	0	0
2/24/2025 19:58	67203	TEHI_T1	2	2	0	0.2	0	-0.2	2.45	2.4	2	2	0	1500	1500	0
2/24/2025 19:58	53901	HALI_T2	3	2	-1	0.4	0.5	0.1	-1.48	-1.47	0	0	0	0	0	0
2/24/2025 19:58	52402	GRPA_T2	2	5	3	0.85	0.6	-0.25	0	0	0	0	0	0	0	0
2/24/2025 19:58	40602	PIGR_T1	2	0	-2	0.55	0	-0.55	0.09	0.05	0	0	0	0	0	0
2/24/2025 19:58	53501	EVIL_T2	1	1	0	0.2	0.2	0	-1.1	-1.05	1	1	0	600	600	0
2/24/2025 19:58	44505	HAMI_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
2/24/2025 19:59	41002	LAUR_T2	1	9	8	1.6	0.3	-1.3	0	0	0	0	0	0	0	0
2/24/2025 19:59	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
2/24/2025 19:59	58401	MORO_T1	0	0	0	0	0	0	-1.12	-1.21	1	1	0	600	600	0
2/24/2025 19:59	40505	CRES_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
2/24/2025 19:59	67901	WNHO_T2	0	0	0	0	0	0	-0.3	-0.31	1	1	0	900	900	0
2/24/2025 19:59	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
2/24/2025 19:59	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:59	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:59	41001	LAUR_T2	1	22	21	1.4	0.14	-1.26	0	0	0	0	0	0	0	0
2/24/2025 19:59	46801	HEPB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:59	64802	MONE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 19:59	55101	WERT_T1	0	0	0	0	0	0	-2.92	-3.01	4	4	0	3000	3000	0
2/24/2025 19:59	55002	NEWP_T1	6	3	-3	0.52	0.63	0.11	-0.27	-0.27	0	0	0	0	0	0
2/24/2025 19:59	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 20:00	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 20:00	53501	EVIL_T2	1	1	0	0.2	0.2	0	-2.19	-2.1	2	2	0	1200	1200	0
2/24/2025 20:00	66505	SMAN_T2	2	3	1	0.55	0.7	0.15	0	0	0	0	0	0	0	0
2/24/2025 20:00	44301	BEAV_T2	0	0	0	0	0	0	0.3	0.27	1	1	0	600	600	0
2/24/2025 20:00	41902	REED_T1	1	2	1	0.7	0	-0.7	0.19	0.19	1	1	0	900	900	0
2/24/2025 20:00	46203	DANV_T2	146	96	-50	0.64	0.51	-0.13	0	0	0	0	0	0	0	0
2/24/2025 20:00	46204	DANV_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/24/2025 20:00	52502	PROG_T2	0	0	0	0	0	0	0.35	0.3	0	0	0	0	0	0
2/24/2025 20:00	40505	CRES_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
2/24/2025 20:00	66504	SMAN_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
2/24/2025 20:00	67805	WLAN_T1	0	0	0	0	0	0	-1.62	-1.63	0	0	0	0	0	0
2/24/2025 20:00	52403	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/24/2025 20:00	64203	KINZ_T1	0	0	0	0	0	0	-0.41	-0.42	1	1	0	600	600	0
2/24/2025 20:00	67801	WLAN_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/24/2025 20:00	40101	HUNT_T2	4	19	15	0.83	0.54	-0.29	-1.46	-1.49	0	0	0	0	0	0
2/24/2025 20:00	46004	BERW_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
2/24/2025 20:00	64201	KINZ_T1	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
2/24/2025 20:00	46206	DANV_T2	0	0	0	0	0	0	1.55	1.54	2	2	0	2100	2100	0
2/24/2025 20:00	64204	KINZ_T1	1	2	1	1	1.1	0.1	0	0	0	0	0	0	0	0
2/24/2025 20:00	64101	REFR_T1	0	0	0	0	0	0	-0.39	-0.54	0	0	0	0	0	0
2/24/2025 20:00	67901	WNHO_T2	0	1	1	0	0.1	0.1	-0.3	-0.31	1	1	0	900	900	0
2/24/2025 20:00	52402	GRPA_T2	3	6	3	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
2/24/2025 20:00	20601	GRWO_T2	1	1	0	0.2	0	-0.2	0.15	0.15	0	0	0	0	0	0
2/24/2025 20:00	53802	MBRG_T2	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
2/24/2025 20:01	66505	SMAN_T2	2	3	1	0.55	0.7	0.15	0	0	0	0	0	0	0	0
2/24/2025 20:01	52403	GRPA_T2	0	1	1	0	0.2	0.2	-1.26	-1.2	0	0	0	0	0	0
2/24/2025 20:01	46504	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 20:01	41902	REED_T1	1	2	1	0.7	0	-0.7	0.39	0.39	2	2	0	1800	1800	0
2/24/2025 20:01	44502	HAMI_T2	1	1	0	3	3	0	0	0	0	0	0	0	0	0
2/24/2025 20:01	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
2/24/2025 20:01	46204	DANV_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/24/2025 20:01	52402	GRPA_T2	3	6	3	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
2/24/2025 20:01	46501	LOHA_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
2/24/2025 20:01	46203	DANV_T2	146	96	-50	0.64	0.51	-0.13	-2.32	-1.04	0	0	0	0	0	0
2/24/2025 20:01	67402	WAKE_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
2/24/2025 20:01	67502	WEWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 20:01	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
2/24/2025 20:01	46506	LOHA_T1	3	3	0	2.47	2.73	0.26	0	0	0	0	0	0	0	0
2/24/2025 20:01	66504	SMAN_T2	0	0	0	0	0	0	-0.52	-0.54	0	0	0	0	0	0
2/24/2025 20:01	67201	TEHI_T1	0	0	0	0	0	0	-0.53	-0.72	1	1	0	900	900	0
2/24/2025 20:01	51202	MTON_T2	0	0	0	0	0	0	-1.07	-1.08	1	1	0	1200	1200	0
2/24/2025 20:01	59003	MIFF_T1	0	0	0	0	0	0	-0.58	-0.46	0	0	0	0	0	0
2/24/2025 20:01	67203	TEHI_T1	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/24/2025 20:01	55101	WERT_T1	0	0	0	0	0	0	-2.92	-3.01	4	4	0	3000	3000	0
2/24/2025 20:01	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 20:01	58401	MORO_T1	0	0	0	0	0	0	-2.24	-2.41	2	2	0	1200	1200	0
2/24/2025 20:01	41301	FISH_T1	3	3	0	0.8	0.9	0.1	-0.75	-0.76	0	0	0	0	0	0
2/24/2025 20:01	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 20:02	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 20:02	55101	WERT_T1	0	0	0	0	0	0	-1.46	-1.51	2	2	0	1500	1500	0
2/24/2025 20:02	58401	MORO_T1	0	0	0	0	0	0	-1.12	-1.21	1	1	0	600	600	0
2/24/2025 20:02	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 20:02	52402	GRPA_T2	3	6	3	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
2/24/2025 20:02	52403	GRPA_T2	0	1	1	0	0.2	0.2	-1.26	-1.2	0	0	0	0	0	0
2/24/2025 20:03	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
2/24/2025 20:03	52402	GRPA_T2	3	6	3	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
2/24/2025 20:03	57403	SPAN_T1	0	0	0	0	0	0	0.11	0.05	0	0	0	0	0	0
2/24/2025 20:03	53501	EVIL_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/24/2025 20:03	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 20:03	53502	EVIL_T2	0	0	0	0	0	0	0.58	0.65	0	0	0	0	0	0
2/24/2025 20:03	52403	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/24/2025 20:03	65601	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 20:04	59101	WALK_T2	0	0	0	0	0	0	1.19	1.05	0	0	0	0	0	0
2/24/2025 20:04	52402	GRPA_T2	3	6	3	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
2/24/2025 20:04	45001	LIME_2	1	2	1	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
2/24/2025 20:04	45002	LIME_2	1	1	0	5.6	5.7	0.1	0.56	0.52	0	0	0	0	0	0
2/24/2025 20:04	45003	LIME_2	21	28	7	0.79	0.85	0.06	0	0	0	0	0	0	0	0
2/24/2025 20:04	52403	GRPA_T2	0	1	1	0	0.2	0.2	-1.26	-1.2	0	0	0	0	0	0
2/24/2025 20:04	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2025 20:05	53903	HALI_T2	2	2	0	1.3	1.15	-0.15	0	0	0	0	0	0	0	0
2/24/2025 20:05	53901	HALI_T2	2	1	-1	0.5	0.9	0.4	0	0	0	0	0	0	0	0
2/24/2025 20:05	53902	HALI_T2	1	1	0	5.6	5.5	-0.1	-0.9	-0.88	0	0	0	0	0	0
2/24/2025 20:05	52403	GRPA_T2	0	1	1	0	0.2	0.2	-1.26	-1.2	0	0	0	0	0	0
2/24/2025 20:05	52402	GRPA_T2	3	6	3	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
2/24/2025 20:06	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.13	0	0	0	0	0	0
2/24/2025 20:06	51202	MTON_T2	0	0	0	0	0	0	-1.07	-1.08	1	1	0	1200	1200	0
2/24/2025 20:06	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
2/24/2025 20:15	52501	PROG_T1	0	0	0	0	0	0	0.45	0.45	1	1	0	300	300	0
2/24/2025 20:34	64101	REFR_T1	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0
2/25/2025 7:38	13302	ORVI_T2	0	0	0	0	0	0	1.42	1.44	0	0	0	0	0	0
2/25/2025 7:38	55002	NEWP_T1	3	5	2	0.53	0.7	0.17	-0.2	-0.23	0	0	0	0	0	0
2/25/2025 7:38	13303	ORVI_T1	0	0	0	0	0	0	0.95	1.04	0	0	0	0	0	0
2/25/2025 7:39	43802	SWIL_T1	0	0	0	0	0	0	-0.2	-0.18	1	1	0	600	600	0
2/25/2025 7:39	43801	SWIL_T1	1	13	12	5.2	0.47	-4.73	0	0	0	0	0	0	0	0
2/25/2025 7:40	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 7:40	66505	SMAN_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/25/2025 7:40	13302	ORVI_T2	0	0	0	0	0	0	1.42	1.44	0	0	0	0	0	0
2/25/2025 7:41	66505	SMAN_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/25/2025 7:41	66503	SMAN_T2	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
2/25/2025 7:46	46206	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/25/2025 7:46	46204	DANV_T2	2	1	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
2/25/2025 7:46	46203	DANV_T2	75	118	43	0.37	0.57	0.2	-2.22	-2.29	0	0	0	0	0	0
2/25/2025 7:47	46204	DANV_T2	2	1	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
2/25/2025 7:47	46206	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/25/2025 7:47	46203	DANV_T2	75	118	43	0.37	0.57	0.2	-2.22	-2.29	0	0	0	0	0	0
2/25/2025 8:01	46203	DANV_T2	103	136	33	0.49	0.57	0.08	-2.29	-0.87	0	0	0	0	0	0
2/25/2025 8:01	46204	DANV_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/25/2025 8:01	53501	EVIL_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
2/25/2025 8:08	10401	LIGA_T1	30	40	10	0.18	0.21	0.03	0	0	0	0	0	0	0	0
2/25/2025 8:09	64801	MONE_T2	154	168	14	0.39	0.7	0.31	0	0	0	0	0	0	0	0
2/25/2025 8:09	64802	MONE_T2	34	92	58	0.2	0.25	0.05	0	0	0	0	0	0	0	0
2/25/2025 8:12	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 8:15	40802	EXCH_T2	1	0	-1	0.1	0	-0.1	-0.27	-0.78	0	0	0	0	0	0
2/25/2025 8:17	24105	EHAZ_T1	4	4	0	6.18	6.2	0.02	0	0	0	0	0	0	0	0
2/25/2025 8:17	24102	EHAZ_T1	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/25/2025 8:17	24104	EHAZ_T1	0	0	0	0	0	0	-2.22	-0.89	1	1	0	1200	1200	0
2/25/2025 8:17	53501	EVIL_T2	2	2	0	0.85	1.1	0.25	-0.94	-0.93	2	2	0	1200	1200	0
2/25/2025 8:17	24101	EHAZ_T1	21	5	-16	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/25/2025 8:18	41801	GOCI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/25/2025 8:19	41801	GOCI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/25/2025 8:19	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 8:20	64904	MILL_T1	0	0	0	0	0	0	-0.42	0.53	0	0	0	0	0	0
2/25/2025 8:20	64901	MILL_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/25/2025 8:21	44201	POIN_T1	0	0	0	0	0	0	-1.5	-1.43	2	2	0	2100	2100	0
2/25/2025 8:22	58201	NEWV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 8:23	45001	LIME_2	7	27	20	0.13	0.14	0.01	0	0	0	0	0	0	0	0
2/25/2025 8:23	45003	LIME_2	1	1	0	3.4	3.6	0.2	0.43	0.48	0	0	0	0	0	0
2/25/2025 8:23	45002	LIME_2	1	1	0	4.9	5.5	0.6	0	0	0	0	0	0	0	0
2/25/2025 8:24	44201	POIN_T1	0	0	0	0	0	0	-1.5	-1.43	2	2	0	2100	2100	0
2/25/2025 8:25	59101	WALK_T2	0	0	0	0	0	0	1.68	2.01	1	1	0	600	600	0
2/25/2025 8:26	20401	ASHF_T2	5	10	5	0.54	0.75	0.21	0	0	0	0	0	0	0	0
2/25/2025 8:26	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 8:26	20402	ASHF_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/25/2025 8:26	20403	ASHF_T2	0	2	2	0	0.35	0.35	0.17	0.13	0	0	0	0	0	0
2/25/2025 8:29	21606	EYNO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 8:30	54203	PENN_T1	18	18	0	1.23	1.45	0.22	-0.71	-0.68	1	1	0	600	600	0
2/25/2025 8:30	54201	PENN_T1	10	10	0	0.81	1.13	0.32	0	0	0	0	0	0	0	0
2/25/2025 8:31	20401	ASHF_T2	9	7	-2	0.54	0.73	0.19	-0.17	-0.18	1	1	0	600	600	0
2/25/2025 8:31	20402	ASHF_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
2/25/2025 8:31	20403	ASHF_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/25/2025 8:37	55001	NEWP_T1	0	0	0	0	0	0	-0.72	-0.79	0	0	0	0	0	0
2/25/2025 8:37	55002	NEWP_T1	5	6	1	0.4	0.68	0.28	0	0	0	0	0	0	0	0
2/25/2025 8:40	13302	ORVI_T2	4	7	3	0.1	0.2	0.1	1.48	1.42	0	0	0	0	0	0
2/25/2025 8:42	24202	PROV_T4	0	1	1	0	0.1	0.1	-0.72	-0.73	1	1	0	1200	1200	0
2/25/2025 8:43	45501	DERR_T2	1	1	0	0.2	0	-0.2	0.4	0.48	2	2	0	1800	1800	0
2/25/2025 8:46	20401	ASHF_T2	6	7	1	0.72	0.73	0.01	0	0	0	0	0	0	0	0
2/25/2025 8:46	45501	DERR_T2	0	0	0	0	0	0	0.4	0.48	2	2	0	1800	1800	0
2/25/2025 8:46	20402	ASHF_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
2/25/2025 8:46	20403	ASHF_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
2/25/2025 8:47	63802	HEMP_T1	0	0	0	0	0	0	0.2	0.16	0	0	0	0	0	0
2/25/2025 8:47	63803	HEMP_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 8:47	63804	HEMP_T1	1	1	0	6.1	5.8	-0.3	0	0	0	0	0	0	0	0
2/25/2025 8:48	63804	HEMP_T1	1	1	0	6.1	5.8	-0.3	0	0	0	0	0	0	0	0
2/25/2025 8:48	63803	HEMP_T1	0	3	3	0	0.1	0.1	0.04	0.03	0	0	0	0	0	0
2/25/2025 8:49	63803	HEMP_T1	0	3	3	0	0.1	0.1	0.04	0.03	0	0	0	0	0	0
2/25/2025 8:49	63804	HEMP_T1	1	1	0	6.1	5.8	-0.3	0	0	0	0	0	0	0	0
2/25/2025 8:51	63803	HEMP_T1	0	3	3	0	0.1	0.1	0.07	0.08	0	0	0	0	0	0
2/25/2025 8:51	63804	HEMP_T1	1	1	0	6.1	5.8	-0.3	0	0	0	0	0	0	0	0
2/25/2025 8:52	53801	MBRG_T2	1	24	23	0.2	0.16	-0.04	-1.9	-1.92	0	0	0	0	0	0
2/25/2025 8:54	67402	WAKE_T2	1	2	1	0.2	0.2	0	0.44	0.45	1	1	0	600	600	0
2/25/2025 8:55	67402	WAKE_T2	1	2	1	0.2	0.2	0	0.44	0.45	1	1	0	600	600	0
2/25/2025 8:56	14801	TREI_T2	0	0	0	0	0	0	0.47	0.42	0	0	0	0	0	0
2/25/2025 9:00	53903	HALI_T2	1	5	4	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/25/2025 9:00	20401	ASHF_T2	7	7	0	0.73	0.8	0.07	-0.24	-0.18	1	1	0	600	600	0
2/25/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
2/25/2025 9:00	20403	ASHF_T2	2	10	8	0.5	0.21	-0.29	0	0	0	0	0	0	0	0
2/25/2025 9:00	40505	CRES_T1	0	1	1	0	0.1	0.1	0.46	0.52	0	0	0	0	0	0
2/25/2025 9:00	40504	CRES_T1	0	12	12	0	0.11	0.11	0	0	0	0	0	0	0	0
2/25/2025 9:00	53901	HALI_T2	1	1	0	1	0.8	-0.2	-0.99	-1.04	0	0	0	0	0	0
2/25/2025 9:00	46203	DANV_T2	253	166	-87	0.71	0.63	-0.08	-1.02	-1.02	0	0	0	0	0	0
2/25/2025 9:00	61304	EARL_T1	0	0	0	0	0	0	-0.69	-0.7	1	1	0	600	600	0
2/25/2025 9:00	53902	HALI_T2	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
2/25/2025 9:00	47203	FAXO_T2	0	0	0	0	0	0	-1.78	-1.76	1	1	0	1200	1200	0
2/25/2025 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
2/25/2025 9:00	20402	ASHF_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
2/25/2025 9:01	61304	EARL_T1	0	0	0	0	0	0	-0.69	-0.7	1	1	0	600	600	0
2/25/2025 9:02	61304	EARL_T1	0	0	0	0	0	0	-0.69	-0.7	1	1	0	600	600	0
2/25/2025 9:03	61304	EARL_T1	0	0	0	0	0	0	-0.69	-0.7	1	1	0	600	600	0
2/25/2025 9:03	64503	LAVI_T1	0	0	0	0	0	0	-1.97	0.18	2	1	-1	2100	1200	-900
2/25/2025 9:04	61302	EARL_T1	0	0	0	0	0	0	0.76	0.53	2	2	0	1800	1800	0
2/25/2025 9:05	64503	LAVI_T1	0	0	0	0	0	0	-1.97	0.18	2	1	-1	2100	1200	-900
2/25/2025 9:06	64503	LAVI_T1	0	0	0	0	0	0	0.35	0.16	4	2	-2	4200	2400	-1800
2/25/2025 9:07	48301	ORWI_T1	2	2	0	4.9	4.7	-0.2	-0.4	-0.37	1	1	0	900	900	0
2/25/2025 9:07	46203	DANV_T2	253	166	-87	0.71	0.63	-0.08	-1.02	-0.93	0	0	0	0	0	0
2/25/2025 9:08	55001	NEWP_T1	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
2/25/2025 9:08	48301	ORWI_T1	2	2	0	4.9	4.7	-0.2	-0.4	-0.37	1	1	0	900	900	0
2/25/2025 9:08	55002	NEWP_T1	6	5	-1	0.68	0.62	-0.06	0	0	0	0	0	0	0	0
2/25/2025 9:09	65602	QVIL_T2	5	22	17	0.18	0.19	0.01	0	0	0	0	0	0	0	0
2/25/2025 9:09	65603	QVIL_T2	0	0	0	0	0	0	0.42	0.48	0	0	0	0	0	0
2/25/2025 9:10	48301	ORWI_T1	2	2	0	4.9	4.7	-0.2	0	0	0	0	0	0	0	0
2/25/2025 9:10	67402	WAKE_T2	2	2	0	0.2	0.3	0.1	1.34	1.28	3	3	0	1800	1800	0
2/25/2025 9:11	55002	NEWP_T1	6	5	-1	0.68	0.62	-0.06	0	0	0	0	0	0	0	0
2/25/2025 9:11	60201	ATGL_T2	0	5	5	0	0.2	0.2	-0.06	-0.07	0	0	0	0	0	0
2/25/2025 9:11	55001	NEWP_T1	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
2/25/2025 9:12	65602	QVIL_T2	5	22	17	0.18	0.19	0.01	0	0	0	0	0	0	0	0
2/25/2025 9:12	14801	TREI_T2	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
2/25/2025 9:12	65603	QVIL_T2	0	0	0	0	0	0	0.42	0.48	0	0	0	0	0	0
2/25/2025 9:16	10805	CHHI_T2	1	1	0	7.5	7.9	0.4	-1.35	-0.85	1	1	0	600	600	0
2/25/2025 9:19	40101	HUNT_T2	4	13	9	0.6	0.42	-0.18	-0.17	-0.04	0	0	0	0	0	0
2/25/2025 9:20	46102	MACI_T1	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
2/25/2025 9:21	46101	MACI_T2	0	0	0	0	0	0	0.54	0.54	1	1	0	1200	1200	0
2/25/2025 9:23	65602	QVIL_T2	18	40	22	0.14	0.38	0.24	0	0	0	0	0	0	0	0
2/25/2025 9:23	65601	QVIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
2/25/2025 9:24	51004	NHAR_T1	5	5	0	2.26	2.32	0.06	0	0	0	0	0	0	0	0
2/25/2025 9:24	51002	NHAR_T1	38	25	-13	0.2	0.22	0.02	0	0	0	0	0	0	0	0
2/25/2025 9:24	51003	NHAR_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
2/25/2025 9:24	57205	ROSS_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
2/25/2025 9:24	57203	ROSS_T1	0	0	0	0	0	0	-0.65	-0.64	0	0	0	0	0	0
2/25/2025 9:24	51006	NHAR_T1	3	2	-1	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
2/25/2025 9:26	57201	ROSS_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
2/25/2025 9:26	57205	ROSS_T1	0	1	1	0	0.9	0.9	0.14	0.15	0	0	0	0	0	0
2/25/2025 9:26	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 9:27	57205	ROSS_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
2/25/2025 9:27	57201	ROSS_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
2/25/2025 9:29	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 9:29	54202	PENN_T2	1	5	4	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/25/2025 9:29	54206	PENN_T2	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
2/25/2025 9:29	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 9:30	23901	EFMO_T2	0	1	1	0	0.1	0.1	-0.34	-0.33	0	0	0	0	0	0
2/25/2025 9:30	40505	CRES_T1	0	0	0	0	0	0	0.47	0.5	0	0	0	0	0	0
2/25/2025 9:30	42701	AUGU_T1	1	2	1	1.3	0.75	-0.55	0	0	2	2	0	1800	1800	0
2/25/2025 9:30	40504	CRES_T1	2	18	16	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
2/25/2025 9:30	40501	CRES_T2	11	11	0	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
2/25/2025 9:30	14204	EALL_T2	0	0	0	0	0	0	0.18	0.22	0	0	0	0	0	0
2/25/2025 9:31	40505	CRES_T1	0	0	0	0	0	0	0.47	0.5	0	0	0	0	0	0
2/25/2025 9:31	40504	CRES_T1	2	18	16	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
2/25/2025 9:32	40504	CRES_T1	2	18	16	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
2/25/2025 9:32	28403	HART_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/25/2025 9:33	40504	CRES_T1	2	18	16	0.15	0.11	-0.04	-1.71	-1.63	0	0	0	0	0	0
2/25/2025 9:33	40505	CRES_T1	0	0	0	0	0	0	0.95	1	0	0	0	0	0	0
2/25/2025 9:34	40504	CRES_T1	2	18	16	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
2/25/2025 9:34	40505	CRES_T1	0	0	0	0	0	0	0.47	0.5	0	0	0	0	0	0
2/25/2025 9:35	40504	CRES_T1	2	18	16	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
2/25/2025 9:35	40505	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 9:38	10401	LIGA_T1	44	61	17	0.23	0.24	0.01	0	0	0	0	0	0	0	0
2/25/2025 9:39	24202	PROV_T4	1	12	11	0.1	0.12	0.02	-0.71	-0.7	1	1	0	1200	1200	0
2/25/2025 9:39	24203	PROV_T4	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/25/2025 9:40	64101	REFR_T1	0	3	3	0	0.27	0.27	-0.13	-0.08	0	0	0	0	0	0
2/25/2025 9:40	13303	ORVI_T1	0	0	0	0	0	0	0.95	0.98	0	0	0	0	0	0
2/25/2025 9:41	58201	NEWV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 9:43	42701	AUGU_T1	1	2	1	1.3	0.75	-0.55	0	0	0	0	0	0	0	0
2/25/2025 9:44	42701	AUGU_T1	1	2	1	1.3	0.75	-0.55	0	0	0	0	0	0	0	0
2/25/2025 9:44	13302	ORVI_T2	2	4	2	0.15	0.23	0.08	1.4	1.37	0	0	0	0	0	0
2/25/2025 9:48	21403	EKET_T2	0	0	0	0	0	0	-1.32	-1.31	0	0	0	0	0	0
2/25/2025 9:48	21402	EKET_T2	5	4	-1	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
2/25/2025 9:48	10801	CHHI_T1	0	1	1	0	0	0	-1.51	-0.89	2	1	-1	1500	900	-600
2/25/2025 9:53	48302	ORWI_T2	2	2	0	1	1.1	0.1	0	0.01	0	0	0	0	0	0
2/25/2025 9:53	57205	ROSS_T1	1	1	0	0.9	1	0.1	0.14	0.1	0	0	0	0	0	0
2/25/2025 9:55	57205	ROSS_T1	1	1	0	0.9	1	0.1	0.14	0.1	0	0	0	0	0	0
2/25/2025 9:55	52502	PROG_T2	0	0	0	0	0	0	0.61	0.53	0	0	0	0	0	0
2/25/2025 9:56	57201	ROSS_T1	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
2/25/2025 9:56	57205	ROSS_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/25/2025 9:56	67201	TEHI_T1	0	0	0	0	0	0	0.8	0.73	1	1	0	900	900	0
2/25/2025 9:57	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 9:57	57205	ROSS_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/25/2025 9:57	57201	ROSS_T1	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
2/25/2025 9:58	52501	PROG_T1	0	0	0	0	0	0	0.46	0.44	1	1	0	300	300	0
2/25/2025 9:58	14801	TREI_T2	1	0	-1	0.2	0	-0.2	0.41	0.41	0	0	0	0	0	0
2/25/2025 9:59	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/25/2025 9:59	62105	ELAN_T1	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
2/25/2025 9:59	60803	BUCK_T1	11	13	2	0.41	0.31	-0.1	0	0	0	0	0	0	0	0
2/25/2025 9:59	62106	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/25/2025 9:59	62102	ELAN_T1	1	1	0	0.1	0.5	0.4	0.6	0.54	0	0	0	0	0	0
2/25/2025 9:59	21705	SUBU_T1	1	1	0	5.1	5.1	0	0	0	0	0	0	0	0	0
2/25/2025 9:59	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 9:59	60801	BUCK_T1	1	1	0	0.3	0.3	0	0.18	0.11	0	0	0	0	0	0
2/25/2025 9:59	21701	SUBU_T1	1	2	1	5.7	5.7	0	0	0	0	0	0	0	0	0
2/25/2025 10:00	62102	ELAN_T1	1	1	0	0.5	0.4	-0.1	0.6	0.54	0	0	0	0	0	0
2/25/2025 10:00	62106	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/25/2025 10:00	15101	UPHA_T1	1	2	1	0.5	0.75	0.25	0.03	-0.02	0	0	0	0	0	0
2/25/2025 10:00	16103	BING_T2	0	5	5	0	0.9	0.9	-1.11	-1.04	2	2	0	1500	1500	0
2/25/2025 10:00	14205	EALL_T2	0	0	0	0	0	0	-0.42	-0.38	0	0	0	0	0	0
2/25/2025 10:00	16102	BING_T2	0	10	10	0	0.35	0.35	0	0	0	0	0	0	0	0
2/25/2025 10:00	15102	UPHA_T1	1	3	2	1.3	0.57	-0.73	0	0	0	0	0	0	0	0
2/25/2025 10:00	62105	ELAN_T1	3	1	-2	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
2/25/2025 10:01	62105	ELAN_T1	3	1	-2	0.27	0.2	-0.07	0.38	0.38	0	0	0	0	0	0
2/25/2025 10:01	24501	GOUL_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
2/25/2025 10:01	62102	ELAN_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/25/2025 10:01	62106	ELAN_T1	1	1	0	0.2	0.2	0	0.72	0.67	0	0	0	0	0	0
2/25/2025 10:02	64204	KINZ_T1	18	63	45	0.41	0.51	0.1	0	0	0	0	0	0	0	0
2/25/2025 10:02	17401	FOHI_T1	0	0	0	0	0	0	-0.99	-1.06	0	0	0	0	0	0
2/25/2025 10:02	64201	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/25/2025 10:02	24102	EHAZ_T1	1	1	0	1.1	0.2	-0.9	-0.23	-0.23	0	0	0	0	0	0
2/25/2025 10:02	62102	ELAN_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/25/2025 10:02	64202	KINZ_T1	3	4	1	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
2/25/2025 10:02	62106	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/25/2025 10:02	24101	EHAZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 10:02	24104	EHAZ_T1	2	3	1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
2/25/2025 10:02	24105	EHAZ_T1	4	4	0	6.05	5.98	-0.07	0	0	0	0	0	0	0	0
2/25/2025 10:02	62105	ELAN_T1	3	1	-2	0.27	0.2	-0.07	0.38	0.38	0	0	0	0	0	0
2/25/2025 10:03	46802	HEPB_T1	12	7	-5	0.3	0.41	0.11	-1.27	-1.25	0	0	0	0	0	0
2/25/2025 10:04	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 10:04	54505	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
2/25/2025 10:04	54503	ENOL_T2	0	0	0	0	0	0	-0.29	-0.39	1	1	0	600	600	0
2/25/2025 10:04	54502	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/25/2025 10:05	64202	KINZ_T1	3	4	1	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
2/25/2025 10:05	64203	KINZ_T1	0	0	0	0	0	0	-0.09	-0.1	2	2	0	1800	1800	0
2/25/2025 10:05	64204	KINZ_T1	18	63	45	0.41	0.51	0.1	0	0	0	0	0	0	0	0
2/25/2025 10:05	64201	KINZ_T1	0	1	1	0	0.4	0.4	-0.52	-0.51	3	3	0	1500	1500	0
2/25/2025 10:06	64201	KINZ_T1	0	1	1	0	0.4	0.4	-0.51	-0.41	3	3	0	1500	1500	0
2/25/2025 10:06	64202	KINZ_T1	3	4	1	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
2/25/2025 10:06	64204	KINZ_T1	18	63	45	0.41	0.51	0.1	0	0	0	0	0	0	0	0
2/25/2025 10:07	41802	GOCI_T2	12	0	-12	0.14	0	-0.14	0	0	0	0	0	0	0	0
2/25/2025 10:07	41801	GOCI_T2	230	93	-137	0.83	0.2	-0.63	0	0	0	0	0	0	0	0
2/25/2025 10:08	41802	GOCI_T2	12	0	-12	0.14	0	-0.14	0	0	0	0	0	0	0	0
2/25/2025 10:08	41801	GOCI_T2	230	93	-137	0.83	0.2	-0.63	0	0	0	0	0	0	0	0
2/25/2025 10:09	64904	MILL_T1	0	0	0	0	0	0	0.45	0.41	0	0	0	0	0	0
2/25/2025 10:09	64901	MILL_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/25/2025 10:10	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 10:10	65602	QVIL_T2	45	45	0	0.58	0.59	0.01	0	0	0	0	0	0	0	0
2/25/2025 10:10	65601	QVIL_T2	4	12	8	0.15	0.23	0.08	0	0	0	0	0	0	0	0
2/25/2025 10:13	57205	ROSS_T1	1	1	0	1	0.1	-0.9	0.1	0.13	0	0	0	0	0	0
2/25/2025 10:14	10801	CHHI_T1	0	1	1	0	0	0	-0.89	-0.91	1	1	0	900	900	0
2/25/2025 10:14	14801	TREI_T2	0	2	2	0	0.2	0.2	0.41	0.4	0	0	0	0	0	0
2/25/2025 10:16	24105	EHAZ_T1	4	4	0	6.1	5.98	-0.12	0	0	0	0	0	0	0	0
2/25/2025 10:16	24104	EHAZ_T1	2	3	1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
2/25/2025 10:16	24101	EHAZ_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/25/2025 10:16	24102	EHAZ_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/25/2025 10:16	24103	EHAZ_T1	0	0	0	0	0	0	-0.09	-0.22	0	0	0	0	0	0
2/25/2025 10:17	61302	EARL_T1	1	0	-1	0.2	0	-0.2	0.72	0.67	2	2	0	1800	1800	0
2/25/2025 10:17	61304	EARL_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/25/2025 10:18	10801	CHHI_T1	1	0	-1	1.4	0	-1.4	-0.89	-0.91	1	1	0	900	900	0
2/25/2025 10:21	24702	FLND_T2	0	0	0	0	0	0	0.33	0.05	1	1	0	1200	1200	0
2/25/2025 10:22	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 10:24	64904	MILL_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
2/25/2025 10:24	42902	MIDD_T2	0	0	0	0	0	0	-1.79	-1.87	2	2	0	1200	1200	0
2/25/2025 10:25	65601	QVIL_T2	0	12	12	0	0.23	0.23	-1.09	-1.17	1	1	0	900	900	0
2/25/2025 10:25	65602	QVIL_T2	34	45	11	0.27	0.59	0.32	0	0	0	0	0	0	0	0
2/25/2025 10:26	59101	WALK_T2	0	0	0	0	0	0	1.76	1.74	1	1	0	600	600	0
2/25/2025 10:27	65601	QVIL_T2	0	12	12	0	0.23	0.23	0	0	0	0	0	0	0	0
2/25/2025 10:27	65602	QVIL_T2	34	45	11	0.27	0.59	0.32	0.35	0.4	0	0	0	0	0	0
2/25/2025 10:28	45501	DERR_T2	0	1	1	0	0.2	0.2	0.55	0.55	2	2	0	1800	1800	0
2/25/2025 10:30	67901	WNHO_T2	0	0	0	0	0	0	0.7	0.62	1	1	0	900	900	0
2/25/2025 10:30	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.55	0.55	2	2	0	1800	1800	0
2/25/2025 10:30	61301	EARL_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
2/25/2025 10:30	54501	ENOL_T2	0	0	0	0	0	0	-1.18	-1.16	1	1	0	600	600	0
2/25/2025 10:30	54505	ENOL_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
2/25/2025 10:30	60201	ATGL_T2	10	3	-7	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
2/25/2025 10:30	61304	EARL_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/25/2025 10:31	40802	EXCH_T2	1	1	0	0.1	0.5	0.4	-0.32	-0.24	0	0	0	0	0	0
2/25/2025 10:31	60201	ATGL_T2	10	3	-7	0.24	0.2	-0.04	-0.06	-0.03	0	0	0	0	0	0
2/25/2025 10:32	40802	EXCH_T2	1	1	0	0.1	0.5	0.4	-0.32	-0.24	0	0	0	0	0	0
2/25/2025 10:32	11202	ELHE_T2	0	0	0	0	0	0	0.37	0.37	1	1	0	1200	1200	0
2/25/2025 10:33	54504	ENOL_T2	0	0	0	0	0	0	-1.08	-1	1	1	0	600	600	0
2/25/2025 10:33	54505	ENOL_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
2/25/2025 10:33	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.55	0.55	2	2	0	1800	1800	0
2/25/2025 10:34	54505	ENOL_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
2/25/2025 10:34	54506	ENOL_T2	0	0	0	0	0	0	-0.08	-0.05	1	0	-1	600	0	-600
2/25/2025 10:34	54503	ENOL_T2	0	0	0	0	0	0	-0.39	-0.42	1	1	0	600	600	0
2/25/2025 10:35	45702	LIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 10:35	21501	CEAV_T2	0	0	0	0	0	0	0.11	-0.54	1	1	0	1200	1200	0
2/25/2025 10:35	45701	LIND_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
2/25/2025 10:37	45702	LIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 10:37	45701	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 10:38	43202	MVIL_T2	2	46	44	0.1	0.28	0.18	-0.55	-0.56	0	0	0	0	0	0
2/25/2025 10:41	29402	BELT_T1	247	305	58	0.45	0.64	0.19	0	0	0	0	0	0	0	0
2/25/2025 10:41	29401	BELT_T1	71	104	33	0.23	0.26	0.03	0	0	0	0	0	0	0	0
2/25/2025 10:42	60801	BUCK_T1	3	10	7	0.23	0.2	-0.03	0.12	0.08	0	0	0	0	0	0
2/25/2025 10:42	60803	BUCK_T1	16	16	0	0.34	0.43	0.09	0	0	0	0	0	0	0	0
2/25/2025 10:42	13302	ORVI_T2	9	14	5	0.19	0.39	0.2	1.42	1.3	0	0	0	0	0	0
2/25/2025 10:43	29402	BELT_T1	247	305	58	0.45	0.64	0.19	0	0	0	0	0	0	0	0
2/25/2025 10:43	29401	BELT_T1	71	104	33	0.23	0.26	0.03	0	0	0	0	0	0	0	0
2/25/2025 10:44	16103	BING_T2	1	2	1	0.9	0.45	-0.45	-1.13	-1.14	2	2	0	1500	1500	0
2/25/2025 10:44	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.55	0.51	2	2	0	1800	1800	0
2/25/2025 10:44	16101	BING_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
2/25/2025 10:44	13302	ORVI_T2	9	14	5	0.19	0.39	0.2	1.42	1.3	0	0	0	0	0	0
2/25/2025 10:44	16102	BING_T2	10	3	-7	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
2/25/2025 10:44	29401	BELT_T1	71	104	33	0.23	0.26	0.03	0	0	0	0	0	0	0	0
2/25/2025 10:44	29402	BELT_T1	247	305	58	0.45	0.64	0.19	0	0	0	0	0	0	0	0
2/25/2025 10:44	40201	BEGA_T2	2	7	5	0.3	0.3	0	0	0	0	0	0	0	0	0
2/25/2025 10:45	29402	BELT_T1	290	320	30	0.55	0.82	0.27	0	0	0	0	0	0	0	0
2/25/2025 10:45	29401	BELT_T1	90	148	58	0.24	0.36	0.12	0	0	0	0	0	0	0	0
2/25/2025 10:45	40201	BEGA_T2	5	7	2	0.24	0.33	0.09	0	0	0	0	0	0	0	0
2/25/2025 10:46	16103	BING_T2	1	2	1	0.8	1.05	0.25	0	0	0	0	0	0	0	0
2/25/2025 10:46	16102	BING_T2	3	14	11	0.2	0.24	0.04	0.01	-0.05	0	0	0	0	0	0
2/25/2025 10:46	16101	BING_T2	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
2/25/2025 10:46	45501	DERR_T2	0	0	0	0	0	0	0.55	0.51	2	2	0	1800	1800	0
2/25/2025 10:47	17802	GILB_T1	1	3	2	0.4	0.57	0.17	0.12	0.13	0	0	0	0	0	0
2/25/2025 10:47	40201	BEGA_T2	5	7	2	0.24	0.33	0.09	0	0	0	0	0	0	0	0
2/25/2025 10:53	43202	MVIL_T2	5	52	47	0.34	0.3	-0.04	-1.12	-1.17	0	0	0	0	0	0
2/25/2025 10:54	43202	MVIL_T2	5	52	47	0.34	0.3	-0.04	-0.56	-0.58	0	0	0	0	0	0
2/25/2025 10:57	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 10:57	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 10:58	14801	TREI_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/25/2025 10:58	16103	BING_T2	1	2	1	0.8	1.05	0.25	0	0	0	0	0	0	0	0
2/25/2025 10:58	43402	BENT_T1	1	2	1	0.5	0.3	-0.2	-0.91	-0.84	1	1	0	900	900	0
2/25/2025 10:58	46002	BERW_T2	0	0	0	0	0	0	-0.66	-0.7	1	1	0	900	900	0
2/25/2025 10:58	16101	BING_T2	1	1	0	0.7	0.1	-0.6	0.25	0.28	0	0	0	0	0	0
2/25/2025 10:58	55102	WERT_T2	0	0	0	0	0	0	-0.84	-0.86	1	1	0	600	600	0
2/25/2025 10:58	14802	TREI_T2	0	3	3	0	0.2	0.2	0.42	0.36	0	0	0	0	0	0
2/25/2025 10:58	16102	BING_T2	3	14	11	0.2	0.24	0.04	0	0	0	0	0	0	0	0
2/25/2025 10:59	43402	BENT_T1	1	2	1	0.5	0.3	-0.2	-0.91	-0.84	1	1	0	900	900	0
2/25/2025 10:59	55102	WERT_T2	0	0	0	0	0	0	-0.84	-0.86	1	1	0	600	600	0
2/25/2025 11:00	11303	EMMA_T1	3	1	-2	0.8	0.8	0	-1.67	-1.73	0	0	0	0	0	0
2/25/2025 11:00	11302	EMMA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/25/2025 11:01	46004	BERW_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
2/25/2025 11:02	11303	EMMA_T1	3	1	-2	0.8	0.8	0	0	0	0	0	0	0	0	0
2/25/2025 11:02	11302	EMMA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/25/2025 11:02	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 11:04	11302	EMMA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/25/2025 11:04	11303	EMMA_T1	3	1	-2	0.8	0.8	0	0	0	0	0	0	0	0	0
2/25/2025 11:04	11301	EMMA_T1	0	0	0	0	0	0	-0.89	-0.82	0	0	0	0	0	0
2/25/2025 11:06	11301	EMMA_T1	0	0	0	0	0	0	-0.89	-0.82	0	0	0	0	0	0
2/25/2025 11:06	11303	EMMA_T1	3	1	-2	0.8	0.8	0	-1.67	-1.73	0	0	0	0	0	0
2/25/2025 11:06	11302	EMMA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/25/2025 11:11	15702	TANN_T2	0	2	2	0	0.3	0.3	-0.85	-0.82	0	0	0	0	0	0
2/25/2025 11:11	15703	TANN_T2	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
2/25/2025 11:13	52403	GRPA_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/25/2025 11:13	52402	GRPA_T2	1	4	3	2.9	0.93	-1.97	0	0	0	0	0	0	0	0
2/25/2025 11:16	15702	TANN_T2	1	2	1	0.3	0.3	0	-0.42	-0.41	0	0	0	0	0	0
2/25/2025 11:16	15703	TANN_T2	1	1	0	6.6	6.8	0.2	0	0	0	0	0	0	0	0
2/25/2025 11:17	40504	CRES_T1	10	0	-10	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/25/2025 11:17	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 11:17	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/25/2025 11:17	54503	ENOL_T2	0	0	0	0	0	0	-0.43	-0.43	1	1	0	600	600	0
2/25/2025 11:17	54502	ENOL_T2	0	0	0	0	0	0	-1.43	-1.47	0	0	0	0	0	0
2/25/2025 11:17	54506	ENOL_T2	0	0	0	0	0	0	0.26	-0.15	0	0	0	0	0	0
2/25/2025 11:18	40501	CRES_T2	11	8	-3	0.35	0.26	-0.09	0	0	0	0	0	0	0	0
2/25/2025 11:18	14204	EALL_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
2/25/2025 11:18	10805	CHHI_T2	1	1	0	8	8.3	0.3	-0.65	-0.64	1	1	0	600	600	0
2/25/2025 11:18	40505	CRES_T1	0	0	0	0	0	0	0.49	0.41	0	0	0	0	0	0
2/25/2025 11:18	40504	CRES_T1	10	0	-10	0.1	0	-0.1	-3.43	-3.42	0	0	0	0	0	0
2/25/2025 11:19	40501	CRES_T2	11	8	-3	0.35	0.26	-0.09	0	0	0	0	0	0	0	0
2/25/2025 11:20	14201	EALL_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
2/25/2025 11:22	58401	MORO_T1	0	0	0	0	0	0	-1.04	-1.09	1	1	0	600	600	0
2/25/2025 11:24	58102	NEKI_T1	1	1	0	0.5	1	0.5	0.22	0.33	0	0	0	0	0	0
2/25/2025 11:24	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 11:29	42501	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/25/2025 11:29	42504	ALTA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/25/2025 11:29	42503	ALTA_T2	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
2/25/2025 11:29	54203	PENN_T1	18	18	0	0.73	0.81	0.08	-0.07	0.59	1	0	-1	600	0	-600
2/25/2025 11:29	15602	NSTR_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/25/2025 11:29	54201	PENN_T1	7	6	-1	0.4	0.78	0.38	0	0	0	0	0	0	0	0
2/25/2025 11:29	15603	NSTR_T2	2	1	-1	0.35	0.7	0.35	-0.65	-0.66	0	0	0	0	0	0
2/25/2025 11:29	15601	NSTR_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/25/2025 11:30	54201	PENN_T1	6	6	0	0.78	0.78	0	0.02	0.04	0	0	0	0	0	0
2/25/2025 11:30	54203	PENN_T1	18	18	0	0.81	0.73	-0.08	0	0	0	0	0	0	0	0
2/25/2025 11:30	67502	WEWI_T2	2	3	1	0.45	0.2	-0.25	0	0	0	0	0	0	0	0
2/25/2025 11:32	54203	PENN_T1	18	18	0	0.81	0.73	-0.08	0	0	0	0	0	0	0	0
2/25/2025 11:32	11104	EGYP_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
2/25/2025 11:32	54201	PENN_T1	6	6	0	0.78	0.78	0	0.02	0.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/25/2025 11:34	11104	EGYP_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
2/25/2025 11:42	16103	BING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/25/2025 11:43	54203	PENN_T1	18	18	0	0.81	0.73	-0.08	0.59	0.62	0	0	0	0	0	0
2/25/2025 11:43	54201	PENN_T1	6	6	0	0.78	0.78	0	0	0	0	0	0	0	0	0
2/25/2025 11:44	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 11:46	42701	AUGU_T1	1	2	1	1.1	0.4	-0.7	0	0	2	2	0	1800	1800	0
2/25/2025 11:46	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 11:47	57002	WHHI_T2	0	0	0	0	0	0	-1.16	-2.46	1	1	0	1200	1200	0
2/25/2025 11:50	45802	HEGI_T2	3	14	11	0.4	0.22	-0.18	0	0	0	0	0	0	0	0
2/25/2025 11:50	43402	BENT_T1	0	0	0	0	0	0	-0.88	-0.9	1	1	0	900	900	0
2/25/2025 11:57	57002	WHHI_T2	0	0	0	0	0	0	-2.46	-2.49	1	1	0	1200	1200	0
2/25/2025 12:01	61701	ELIZ_T1	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
2/25/2025 12:01	61703	ELIZ_T1	0	0	0	0	0	0	-2.69	-2.71	2	2	0	2100	2100	0
2/25/2025 12:02	61701	ELIZ_T1	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
2/25/2025 12:02	61703	ELIZ_T1	0	0	0	0	0	0	-8.07	-8.14	6	6	0	6300	6300	0
2/25/2025 12:05	61701	ELIZ_T1	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
2/25/2025 12:05	61703	ELIZ_T1	0	0	0	0	0	0	-2.69	-2.71	2	2	0	2100	2100	0
2/25/2025 12:12	13303	ORVI_T1	0	0	0	0	0	0	1.84	1.83	0	0	0	0	0	0
2/25/2025 12:14	13301	ORVI_T1	0	0	0	0	0	0	-0.21	0.09	1	0	-1	600	0	-600
2/25/2025 12:14	60803	BUCK_T1	16	20	4	0.34	0.51	0.17	-1.16	-1.12	2	2	0	1200	1200	0
2/25/2025 12:14	60801	BUCK_T1	13	57	44	0.18	0.39	0.21	0	0	0	0	0	0	0	0
2/25/2025 12:15	60801	BUCK_T1	54	49	-5	0.4	0.34	-0.06	-0.44	-0.41	0	0	0	0	0	0
2/25/2025 12:15	60803	BUCK_T1	20	18	-2	0.51	0.48	-0.03	0	0	0	0	0	0	0	0
2/25/2025 12:15	54601	SUMM_T2	3	8	5	0.37	0.41	0.04	-1.88	-1.89	2	2	0	2100	2100	0
2/25/2025 12:15	21501	CEAV_T2	0	0	0	0	0	0	-0.35	0.16	0	0	0	0	0	0
2/25/2025 12:16	60803	BUCK_T1	20	18	-2	0.51	0.48	-0.03	-1.74	-1.68	3	3	0	1800	1800	0
2/25/2025 12:16	60801	BUCK_T1	54	49	-5	0.4	0.34	-0.06	-0.22	-0.21	0	0	0	0	0	0
2/25/2025 12:16	14204	EALL_T2	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
2/25/2025 12:17	45802	HEGI_T2	5	55	50	0.38	1.65	1.27	1.18	0.25	0	0	0	0	0	0
2/25/2025 12:17	60803	BUCK_T1	20	18	-2	0.51	0.48	-0.03	0	0	0	0	0	0	0	0
2/25/2025 12:17	60801	BUCK_T1	54	49	-5	0.4	0.34	-0.06	-0.22	-0.21	0	0	0	0	0	0
2/25/2025 12:18	60803	BUCK_T1	20	18	-2	0.51	0.48	-0.03	0	0	0	0	0	0	0	0
2/25/2025 12:18	14204	EALL_T2	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
2/25/2025 12:18	60801	BUCK_T1	54	49	-5	0.4	0.34	-0.06	0	0	0	0	0	0	0	0
2/25/2025 12:21	45802	HEGI_T2	5	55	50	0.38	1.65	1.27	0.25	1.05	0	0	0	0	0	0
2/25/2025 12:24	15601	NSTR_T2	3	2	-1	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
2/25/2025 12:24	15603	NSTR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/25/2025 12:24	65602	QVIL_T2	39	42	3	0.46	0.43	-0.03	0	0	0	0	0	0	0	0
2/25/2025 12:24	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 12:24	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 12:26	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 12:26	65602	QVIL_T2	39	42	3	0.46	0.43	-0.03	0	0	0	0	0	0	0	0
2/25/2025 12:26	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 12:27	15603	NSTR_T2	1	0	-1	0.2	0	-0.2	-0.6	-0.62	0	0	0	0	0	0
2/25/2025 12:27	65602	QVIL_T2	39	42	3	0.46	0.43	-0.03	0	0	0	0	0	0	0	0
2/25/2025 12:27	15601	NSTR_T2	3	2	-1	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
2/25/2025 12:27	65603	QVIL_T2	0	0	0	0	0	0	0.12	0.17	0	0	0	0	0	0
2/25/2025 12:27	65601	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 12:28	15601	NSTR_T2	3	2	-1	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
2/25/2025 12:28	15603	NSTR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
1/25/2025 12:34	11203	ELHE_T1	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
2/25/2025 12:37	42302	MOWR_T2	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
2/25/2025 12:46	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 12:46	15701	TANN_T1	2	2	0	2.4	2.2	-0.2	0	0	0	0	0	0	0	0
2/25/2025 12:49	47104	MARL_T1	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
2/25/2025 12:52	47101	MARL_T1	0	0	0	0	0	0	-1.26	-1.25	0	0	0	0	0	0
2/25/2025 12:55	54503	ENOL_T2	0	0	0	0	0	0	-0.41	-0.43	1	1	0	600	600	0
2/25/2025 12:55	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/25/2025 12:55	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/25/2025 13:01	62601	ENGL_T1	0	0	0	0	0	0	-0.01	-0.06	0	0	0	0	0	0
2/25/2025 13:01	62606	ENGL_T1	140	137	-3	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
2/25/2025 13:01	55105	WERT_T1	0	0	0	0	0	0	-0.64	-0.64	1	1	0	900	900	0
2/25/2025 13:02	62605	ENGL_T1	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
2/25/2025 13:02	62607	ENGL_T1	0	0	0	0	0	0	-1.6	-1.6	0	0	0	0	0	0
2/25/2025 13:02	62606	ENGL_T1	140	137	-3	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
2/25/2025 13:02	62604	ENGL_T1	0	0	0	0	0	0	-0.18	-0.35	0	0	0	0	0	0
2/25/2025 13:04	62605	ENGL_T1	0	0	0	0	0	0	-0.88	-0.9	0	0	0	0	0	0
2/25/2025 13:04	62606	ENGL_T1	140	137	-3	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
2/25/2025 13:05	62605	ENGL_T1	0	0	0	0	0	0	-1.76	-1.8	0	0	0	0	0	0
2/25/2025 13:05	62606	ENGL_T1	140	137	-3	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
2/25/2025 13:05	54502	ENOL_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/25/2025 13:05	54504	ENOL_T2	0	0	0	0	0	0	-2.2	-2.16	2	2	0	1200	1200	0
2/25/2025 13:05	54505	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
2/25/2025 13:06	62607	ENGL_T1	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
2/25/2025 13:06	62605	ENGL_T1	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
2/25/2025 13:06	62606	ENGL_T1	140	137	-3	0.24	0.22	-0.02	-3	-3	2	2	0	1800	1800	0
2/25/2025 13:08	62607	ENGL_T1	0	0	0	0	0	0	-0.8	-0.8	0	0	0	0	0	0
2/25/2025 13:08	62606	ENGL_T1	140	137	-3	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
2/25/2025 13:13	29402	BELT_T1	275	325	50	0.54	0.83	0.29	0	0	0	0	0	0	0	0
2/25/2025 13:13	29401	BELT_T1	96	162	66	0.26	0.43	0.17	0	0	1	1	0	900	900	0
2/25/2025 13:14	14802	TREI_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
2/25/2025 13:14	29402	BELT_T1	275	325	50	0.54	0.83	0.29	0	0	0	0	0	0	0	0
2/25/2025 13:14	14801	TREI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/25/2025 13:14	29401	BELT_T1	96	162	66	0.26	0.43	0.17	0	0	1	1	0	900	900	0
1/25/2025 13:15	15703	TANN_T2	1	4	3	6.8	1.8	-5	0	0	0	0	0	0	0	0
2/25/2025 13:15	15702	TANN_T2	0	1	1	0	0.3	0.3	-0.44	-0.46	0	0	0	0	0	0
2/25/2025 13:16	54504	ENOL_T2	0	0	0	0	0	0	-1.08	-1.1	1	1	0	600	600	0
2/25/2025 13:16	11203	ELHE_T1	0	0	0	0	0	0	0.87	0.85	0	0	0	0	0	0
2/25/2025 13:16	54502	ENOL_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
2/25/2025 13:16	54505	ENOL_T2	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
2/25/2025 13:16	54501	ENOL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
2/25/2025 13:18	14201	EALL_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
2/25/2025 13:22	14502	SCHO_T1	0	0	0	0	0	0	0.18	0.13	0	0	0	0	0	0
2/25/2025 13:22	11203	ELHE_T1	0	0	0	0	0	0	0.85	0.79	0	0	0	0	0	0
2/25/2025 13:27	62606	ENGL_T1	118	159	41	0.21	0.22	0.01	0	0	0	0	0	0	0	0
2/25/2025 13:27	62607	ENGL_T1	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
2/25/2025 13:27	62604	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 13:28	54203	PENN_T1	18	19	1	1.08	1.24	0.16	0	0	0	0	0	0	0	0
2/25/2025 13:28	54602	SUMM_T2	3	9	6	0.1	0.22	0.12	0	0	0	0	0	0	0	0
2/25/2025 13:28	54205	PENN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 13:28	54601	SUMM_T2	10	10	0	0.61	0.88	0.27	0	0	0	0	0	0	0	0
2/25/2025 13:28	54201	PENN_T1	10	17	7	0.73	0.56	-0.17	0.05	0.06	0	0	0	0	0	0
2/25/2025 13:29	54602	SUMM_T2	3	9	6	0.1	0.22	0.12	0	0	0	0	0	0	0	0
2/25/2025 13:29	59101	WALK_T2	0	1	1	0	0	0	1.53	2.07	0	0	0	0	0	0
2/25/2025 13:29	54601	SUMM_T2	10	10	0	0.61	0.88	0.27	-1.87	-1.89	2	2	0	2100	2100	0
2/25/2025 13:31	45003	LIME_2	2	1	-1	2.05	3.7	1.65	0	0	0	0	0	0	0	0
2/25/2025 13:31	45002	LIME_2	1	1	0	5.8	6.2	0.4	0.51	0.5	0	0	0	0	0	0
2/25/2025 13:31	52403	GRPA_T2	2	3	1	0.6	0.73	0.13	-0.54	-0.57	0	0	0	0	0	0
2/25/2025 13:31	52402	GRPA_T2	9	14	5	0.69	0.72	0.03	0	0	0	0	0	0	0	0
2/25/2025 13:31	52401	GRPA_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
2/25/2025 13:32	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 13:33	54501	ENOL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
2/25/2025 13:33	54502	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/25/2025 13:33	54505	ENOL_T2	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
2/25/2025 13:33	54503	ENOL_T2	0	0	0	0	0	0	-0.42	-0.42	1	1	0	600	600	0
2/25/2025 13:34	54505	ENOL_T2	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
2/25/2025 13:34	54502	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/25/2025 13:34	54503	ENOL_T2	0	0	0	0	0	0	-0.42	-0.42	1	1	0	600	600	0
2/25/2025 13:34	54501	ENOL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
2/25/2025 13:35	54501	ENOL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
2/25/2025 13:35	54502	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
2/25/2025 13:35	54503	ENOL_T2	0	0	0	0	0	0	-0.42	-0.42	1	1	0	600	600	0
2/25/2025 13:35	54505	ENOL_T2	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
2/25/2025 13:44	57203	ROSS_T1	0	0	0	0	0	0	-0.66	-0.7	0	0	0	0	0	0
2/25/2025 13:44	57201	ROSS_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 13:44	57205	ROSS_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
2/25/2025 13:46	43801	SWIL_T1	2	1	-1	2.55	5	2.45	0	0	0	0	0	0	0	0
2/25/2025 13:46	54502	ENOL_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
2/25/2025 13:46	57201	ROSS_T1	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/25/2025 13:46	54501	ENOL_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
2/25/2025 13:46	43802	SWIL_T1	0	0	0	0	0	0	-0.2	-0.21	1	1	0	600	600	0
2/25/2025 13:46	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 13:46	57205	ROSS_T1	2	1	-1	2.9	0.6	-2.3	0	0	0	0	0	0	0	0
2/25/2025 13:46	54505	ENOL_T2	1	1	0	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
2/25/2025 13:46	54504	ENOL_T2	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
2/25/2025 13:51	54501	ENOL_T2	3	0	-3	0.13	0	-0.13	1.19	0.55	1	0	-1	600	0	-600
2/25/2025 13:51	54502	ENOL_T2	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
2/25/2025 13:51	54504	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 13:51	54505	ENOL_T2	1	1	0	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
2/25/2025 14:05	46602	LACR_T1	0	1	1	0	0.5	0.5	-0.74	-0.73	0	0	0	0	0	0
2/25/2025 14:12	13905	SEID_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
2/25/2025 14:14	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 14:17	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 14:18	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 14:19	44301	BEAV_T2	0	0	0	0	0	0	-0.31	-0.43	2	1	-1	1500	600	-900
2/25/2025 14:20	17803	GILB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 14:20	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 14:20	17805	GILB_T2	0	1	1	0	0	0	-0.03	-0.05	0	0	0	0	0	0
2/25/2025 14:22	17803	GILB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 14:22	17805	GILB_T2	0	1	1	0	0	0	-0.05	-0.08	0	0	0	0	0	0
2/25/2025 14:25	58401	MORO_T1	1	0	-1	0.9	0	-0.9	-1.09	-1.13	1	1	0	600	600	0
2/25/2025 14:28	57403	SPAN_T1	20	27	7	0.34	0.3	-0.04	0	0	0	0	0	0	0	0
2/25/2025 14:28	57401	SPAN_T1	14	5	-9	0.25	0.52	0.27	-0.46	-0.52	0	0	0	0	0	0
2/25/2025 14:29	57403	SPAN_T1	20	27	7	0.34	0.3	-0.04	0	0	0	0	0	0	0	0
2/25/2025 14:29	42701	AUGU_T1	1	1	0	1.4	1.7	0.3	0	0	2	2	0	1800	1800	0
2/25/2025 14:29	54601	SUMM_T2	9	13	4	0.63	0.69	0.06	-1.85	-1.9	2	2	0	2100	2100	0
2/25/2025 14:29	57401	SPAN_T1	14	5	-9	0.25	0.52	0.27	-1.39	-1.56	0	0	0	0	0	0
2/25/2025 14:30	57401	SPAN_T1	3	13	10	0.33	0.3	-0.03	-1.86	-2.07	0	0	0	0	0	0
2/25/2025 14:30	57403	SPAN_T1	9	98	89	0.28	0.33	0.05	0	0	0	0	0	0	0	0
2/25/2025 14:30	57402	SPAN_T2	0	0	0	0	0	0	-0.57	-0.58	0	0	0	0	0	0
2/25/2025 14:31	57403	SPAN_T1	9	98	89	0.28	0.33	0.05	0	0	0	0	0	0	0	0
2/25/2025 14:31	57401	SPAN_T1	3	13	10	0.33	0.3	-0.03	-0.46	-0.52	0	0	0	0	0	0
2/25/2025 14:33	57403	SPAN_T1	9	98	89	0.28	0.33	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/25/2025 14:33	57401	SPAN_T1	3	13	10	0.33	0.3	-0.03	-0.93	-1.04	0	0	0	0	0	0
2/25/2025 14:34	57404	SPAN_T2	0	0	0	0	0	0	-0.04	-0.1	1	1	0	1200	1200	0
2/25/2025 14:34	45801	HEGI_T1	0	0	0	0	0	0	-0.3	-0.3	1	1	0	900	900	0
2/25/2025 14:34	57403	SPAN_T1	9	98	89	0.28	0.33	0.05	0	0	0	0	0	0	0	0
2/25/2025 14:34	57401	SPAN_T1	3	13	10	0.33	0.3	-0.03	-0.46	-0.52	0	0	0	0	0	0
2/25/2025 14:37	58401	MORO_T1	0	1	1	0	0.2	0.2	-1.13	-1.18	1	1	0	600	600	0
2/25/2025 14:41	44301	BEAV_T2	0	6	6	0	0.3	0.3	0	0	0	0	0	0	0	0
2/25/2025 14:41	44302	BEAV_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
2/25/2025 14:42	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 14:42	43801	SWIL_T1	1	1	0	4.8	4.7	-0.1	0	0	0	0	0	0	0	0
2/25/2025 14:48	44301	BEAV_T2	0	6	6	0	0.3	0.3	0	0	0	0	0	0	0	0
2/25/2025 14:48	44302	BEAV_T2	0	6	6	0	0.42	0.42	0	0	0	0	0	0	0	0
2/25/2025 14:49	44301	BEAV_T2	0	6	6	0	0.3	0.3	-0.43	-0.55	1	1	0	600	600	0
2/25/2025 14:49	44302	BEAV_T2	0	6	6	0	0.42	0.42	0	0	0	0	0	0	0	0
2/25/2025 14:49	57403	SPAN_T1	27	101	74	0.3	0.34	0.04	0	0	0	0	0	0	0	0
2/25/2025 14:49	57401	SPAN_T1	5	14	9	0.52	0.35	-0.17	-0.52	-0.46	0	0	0	0	0	0
2/25/2025 14:50	41001	LAUR_T2	83	79	-4	0.59	0.52	-0.07	0	0	0	0	0	0	0	0
2/25/2025 14:50	44302	BEAV_T2	0	6	6	0	0.42	0.42	0.52	0.52	0	0	0	0	0	0
2/25/2025 14:50	44301	BEAV_T2	0	6	6	0	0.3	0.3	0	0	0	0	0	0	0	0
2/25/2025 14:50	41002	LAUR_T2	56	51	-5	0.57	0.53	-0.04	-1	-1.01	0	0	0	0	0	0
2/25/2025 14:51	44301	BEAV_T2	0	6	6	0	0.3	0.3	0	0	0	0	0	0	0	0
2/25/2025 14:51	44302	BEAV_T2	0	6	6	0	0.42	0.42	0	0	0	0	0	0	0	0
2/25/2025 14:52	41002	LAUR_T2	56	51	-5	0.57	0.53	-0.04	0	0	0	0	0	0	0	0
2/25/2025 14:52	44301	BEAV_T2	0	6	6	0	0.3	0.3	0	0	0	0	0	0	0	0
2/25/2025 14:52	44302	BEAV_T2	0	6	6	0	0.42	0.42	0.26	0.26	0	0	0	0	0	0
2/25/2025 14:52	41001	LAUR_T2	83	79	-4	0.59	0.52	-0.07	0	0	0	0	0	0	0	0
2/25/2025 14:58	59102	WALK_T2	8	3	-5	0.39	0.2	-0.19	0	0	0	0	0	0	0	0
2/25/2025 14:58	59101	WALK_T2	1	2	1	0.4	0.2	-0.2	2.17	2.04	0	0	0	0	0	0
2/25/2025 14:59	59101	WALK_T2	1	2	1	0.4	0.2	-0.2	2.17	2.04	0	0	0	0	0	0
2/25/2025 14:59	59102	WALK_T2	8	3	-5	0.39	0.2	-0.19	0	0	0	0	0	0	0	0
2/25/2025 15:00	46001	BERW_T1	0	0	0	0	0	0	0.65	0.7	0	0	0	0	0	0
2/25/2025 15:00	57203	ROSS_T1	0	0	0	0	0	0	-0.34	0.28	0	0	0	0	0	0
2/25/2025 15:00	57201	ROSS_T1	6	0	-6	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/25/2025 15:00	57205	ROSS_T1	5	3	-2	0.68	0.63	-0.05	0	0	0	0	0	0	0	0
2/25/2025 15:01	67502	WEWI_T2	2	160	158	0.1	0.23	0.13	0	0	0	0	0	0	0	0
2/25/2025 15:01	67503	WEWI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/25/2025 15:02	46001	BERW_T1	0	0	0	0	0	0	0.65	0.7	0	0	0	0	0	0
2/25/2025 15:02	61301	EARL_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
2/25/2025 15:03	59101	WALK_T2	1	2	1	0.2	0.2	0	2.17	2.04	0	0	0	0	0	0
2/25/2025 15:03	59102	WALK_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/25/2025 15:05	41205	KENM_T2	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
2/25/2025 15:05	41202	KENM_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/25/2025 15:07	41802	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 15:07	41801	GOCI_T2	187	274	87	0.39	0.72	0.33	0	0	0	0	0	0	0	0
2/25/2025 15:08	46101	MACI_T2	0	1	1	0	0	0	0.04	-0.11	1	1	0	1200	1200	0
2/25/2025 15:10	41801	GOCI_T2	187	274	87	0.39	0.72	0.33	0	0	0	0	0	0	0	0
2/25/2025 15:10	41802	GOCI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 15:14	55002	NEWP_T1	7	6	-1	1.16	0.62	-0.54	-0.56	-0.52	0	0	0	0	0	0
2/25/2025 15:14	55001	NEWP_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/25/2025 15:19	64704	LITI_T1	0	0	0	0	0	0	0.68	1.33	2	2	0	1200	1200	0
2/25/2025 15:20	16101	BING_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
2/25/2025 15:20	16102	BING_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
2/25/2025 15:23	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 15:25	63501	HEID_TBK1-2	48	75	27	0.26	0.31	0.05	-0.08	-0.16	1	1	0	900	900	0
2/25/2025 15:26	63501	HEID_TBK1-2	48	75	27	0.26	0.31	0.05	-0.16	-0.32	2	2	0	1800	1800	0
2/25/2025 15:26	11203	ELHE_T1	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
2/25/2025 15:27	58401	MORO_T1	0	0	0	0	0	0	-2.39	-2.3	2	2	0	1200	1200	0
2/25/2025 15:27	63501	HEID_TBK1-2	48	75	27	0.26	0.31	0.05	-0.08	-0.16	1	1	0	900	900	0
2/25/2025 15:28	63501	HEID_TBK1-2	48	75	27	0.26	0.31	0.05	-0.08	-0.16	1	1	0	900	900	0
2/25/2025 15:29	47401	PENS_T1	0	3	3	0	0.83	0.83	0.8	0.8	0	0	0	0	0	0
2/25/2025 15:29	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/25/2025 15:29	47403	PENS_T1	1	3	2	0.2	0.37	0.17	0	0	0	0	0	0	0	0
2/25/2025 15:29	63501	HEID_TBK1-2	48	75	27	0.26	0.31	0.05	-0.16	-0.32	2	2	0	1800	1800	0
2/25/2025 15:35	40801	EXCH_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
2/25/2025 15:35	40802	EXCH_T2	1	3	2	0.2	0.13	-0.07	-0.62	-0.67	0	0	0	0	0	0
2/25/2025 15:39	43201	MVIL_T2	0	0	0	0	0	0	-0.31	-0.38	0	0	0	0	0	0
2/25/2025 15:39	43202	MVIL_T2	68	133	65	0.6	0.61	0.01	0	0	0	0	0	0	0	0
2/25/2025 15:42	55001	NEWP_T1	0	1	1	0	0.1	0.1	-0.44	-0.45	0	0	0	0	0	0
2/25/2025 15:42	63501	HEID_TBK1-2	75	39	-36	0.31	0.4	0.09	-0.16	-0.19	1	1	0	900	900	0
2/25/2025 15:42	67605	WARW_T1	57	50	-7	0.69	0.79	0.1	0	0	0	0	0	0	0	0
2/25/2025 15:42	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 15:42	55002	NEWP_T1	3	6	3	0.87	0.83	-0.04	0	0	0	0	0	0	0	0
2/25/2025 15:43	65904	SAKR_T2	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
2/25/2025 15:43	65901	SAKR_T2	0	0	0	0	0	0	-1.34	-1.37	1	1	0	900	900	0
2/25/2025 15:43	67605	WARW_T1	57	50	-7	0.69	0.79	0.1	-1.11	-1.12	0	0	0	0	0	0
2/25/2025 15:43	65903	SAKR_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/25/2025 15:44	67605	WARW_T1	57	50	-7	0.69	0.79	0.1	-1.11	-1.12	0	0	0	0	0	0
2/25/2025 15:44	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 15:44	47403	PENS_T1	2	3	1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
2/25/2025 15:44	57205	ROSS_T1	1	3	2	0.7	0.43	-0.27	0	0	0	0	0	0	0	0
2/25/2025 15:44	47401	PENS_T1	3	3	0	0.63	0.7	0.07	0.8	0.73	0	0	0	0	0	0
2/25/2025 15:44	57201	ROSS_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 15:44	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/25/2025 15:45	67605	WARW_T1	46	49	3	0.81	0.76	-0.05	-3.34	-3.37	0	0	0	0	0	0
2/25/2025 15:45	45602	WOOL_T1	1	1	0	0.1	0.3	0.2	0.53	0.53	0	0	0	0	0	0
2/25/2025 15:45	45501	DERR_T2	0	0	0	0	0	0	0.39	0.41	2	2	0	1800	1800	0
2/25/2025 15:45	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 15:46	45602	WOOL_T1	1	1	0	0.1	0.3	0.2	0.53	0.53	0	0	0	0	0	0
2/25/2025 15:46	67605	WARW_T1	46	49	3	0.81	0.76	-0.05	-1.11	-1.12	0	0	0	0	0	0
2/25/2025 15:46	57205	ROSS_T1	3	1	-2	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
2/25/2025 15:46	45501	DERR_T2	0	0	0	0	0	0	0.39	0.41	2	2	0	1800	1800	0
2/25/2025 15:46	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 15:46	57201	ROSS_T1	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/25/2025 15:46	67603	WARW_T1	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
2/25/2025 15:47	65904	SAKR_T2	5	4	-1	0.12	0.13	0.01	-1.75	-1.85	2	2	0	900	900	0
2/25/2025 15:47	67603	WARW_T1	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
2/25/2025 15:47	65901	SAKR_T2	0	0	0	0	0	0	-1.34	-1.37	1	1	0	900	900	0
2/25/2025 15:47	67605	WARW_T1	46	49	3	0.81	0.76	-0.05	0	0	0	0	0	0	0	0
2/25/2025 15:47	65903	SAKR_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
2/25/2025 15:48	45602	WOOL_T1	1	1	0	0.1	0.3	0.2	0.53	0.53	0	0	0	0	0	0
2/25/2025 15:48	65903	SAKR_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
2/25/2025 15:48	67605	WARW_T1	46	49	3	0.81	0.76	-0.05	0	0	0	0	0	0	0	0
2/25/2025 15:48	65904	SAKR_T2	5	4	-1	0.12	0.13	0.01	0	0	0	0	0	0	0	0
2/25/2025 15:48	64901	MILL_T1	36	19	-17	0.17	0.11	-0.06	0	0	0	0	0	0	0	0
2/25/2025 15:48	64904	MILL_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
2/25/2025 15:48	65901	SAKR_T2	0	0	0	0	0	0	-1.34	-1.37	1	1	0	900	900	0
2/25/2025 15:52	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 15:53	43202	MVIL_T2	127	112	-15	0.52	0.63	0.11	-0.6	-0.63	0	0	0	0	0	0
2/25/2025 15:55	43202	MVIL_T2	127	112	-15	0.52	0.63	0.11	-0.6	-0.63	0	0	0	0	0	0
2/25/2025 15:56	64101	REFR_T1	3	0	-3	0.23	0	-0.23	-0.15	-0.16	0	0	0	0	0	0
2/25/2025 15:57	64101	REFR_T1	3	0	-3	0.23	0	-0.23	-0.15	-0.16	0	0	0	0	0	0
2/25/2025 15:58	44302	BEAV_T2	1	0	-1	0.3	0	-0.3	0.24	0.25	0	0	0	0	0	0
2/25/2025 15:58	55002	NEWP_T1	4	6	2	0.9	0.98	0.08	0	0	0	0	0	0	0	0
2/25/2025 15:58	55001	NEWP_T1	1	1	0	0.1	0.1	0	-0.89	-0.91	0	0	0	0	0	0
2/25/2025 16:07	46504	LOHA_T1	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/25/2025 16:07	46506	LOHA_T1	3	3	0	4.67	4.93	0.26	0	0	0	0	0	0	0	0
2/25/2025 16:07	46505	LOHA_T1	0	0	0	0	0	0	-0.34	-0.34	1	1	0	600	600	0
2/25/2025 16:10	13502	MCMI_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
2/25/2025 16:12	64101	REFR_T1	0	0	0	0	0	0	-0.16	-0.22	0	0	0	0	0	0
2/25/2025 16:15	42701	AUGU_T1	0	0	0	0	0	0	0	0	4	4	0	3600	3600	0
2/25/2025 16:16	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
2/25/2025 16:17	67303	WYOM_T2	0	0	0	0	0	0	-0.69	-0.66	0	0	0	0	0	0
2/25/2025 16:18	15104	UPHA_T2	0	0	0	0	0	0	0.49	0.44	0	0	0	0	0	0
2/25/2025 16:18	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 16:18	15103	UPHA_T2	0	2	2	0	0.35	0.35	0.32	0.36	0	0	0	0	0	0
2/25/2025 16:24	50506	MECH_T1	0	2	2	0	0.15	0.15	-0.09	-0.08	0	0	0	0	0	0
2/25/2025 16:24	50502	MECH_T1	1	1	0	2.4	2.8	0.4	0	0	0	0	0	0	0	0
2/25/2025 16:24	50503	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/25/2025 16:24	50501	MECH_T1	4	4	0	1	1.5	0.5	0	0	0	0	0	0	0	0
2/25/2025 16:24	50504	MECH_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 16:25	50502	MECH_T1	1	1	0	2.4	2.8	0.4	0	0	0	0	0	0	0	0
2/25/2025 16:25	50503	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/25/2025 16:25	50501	MECH_T1	4	4	0	1	1.5	0.5	0	0	0	0	0	0	0	0
2/25/2025 16:25	50504	MECH_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 16:25	50506	MECH_T1	0	2	2	0	0.15	0.15	-0.09	-0.08	0	0	0	0	0	0
2/25/2025 16:28	50506	MECH_T1	0	2	2	0	0.15	0.15	-0.09	-0.08	0	0	0	0	0	0
2/25/2025 16:28	50501	MECH_T1	4	4	0	1	1.5	0.5	0	0	0	0	0	0	0	0
2/25/2025 16:28	50503	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/25/2025 16:28	50502	MECH_T1	1	1	0	2.4	2.8	0.4	0	0	0	0	0	0	0	0
2/25/2025 16:28	50504	MECH_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 16:32	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 16:32	44502	HAMI_T2	1	1	0	3.5	3.5	0	0	0	0	0	0	0	0	0
2/25/2025 16:34	41202	KENM_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/25/2025 16:34	41205	KENM_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
2/25/2025 16:34	41201	KENM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 16:35	44502	HAMI_T2	1	1	0	3.5	3.5	0	0.01	0.02	0	0	0	0	0	0
2/25/2025 16:35	44505	HAMI_T2	0	0	0	0	0	0	-0.12	-0.17	0	0	0	0	0	0
2/25/2025 16:37	44502	HAMI_T2	1	1	0	3.5	3.5	0	0	0	0	0	0	0	0	0
2/25/2025 16:37	44505	HAMI_T2	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
2/25/2025 16:37	46101	MACI_T2	0	0	0	0	0	0	-0.09	-0.35	1	1	0	1200	1200	0
2/25/2025 16:38	40501	CRES_T2	8	9	1	0.2	0.27	0.07	0	0	0	0	0	0	0	0
2/25/2025 16:43	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
2/25/2025 16:54	52502	PROG_T2	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
2/25/2025 16:55	20603	GRWO_T2	31	30	-1	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
2/25/2025 16:55	20601	GRWO_T2	0	0	0	0	0	0	0.19	0.16	0	0	0	0	0	0
2/25/2025 16:55	40101	HUNT_T2	0	0	0	0	0	0	-1.51	-1.51	0	0	0	0	0	0
2/25/2025 16:58	47401	PENS_T1	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
2/25/2025 16:58	47403	PENS_T1	1	16	15	2	0.23	-1.77	0	0	0	0	0	0	0	0
2/25/2025 17:04	10101	ALLE_T3	2	2	0	3.9	4.6	0.7	0	0	0	0	0	0	0	0
2/25/2025 17:06	40101	HUNT_T2	0	0	0	0	0	0	-1.51	-1.51	0	0	0	0	0	0
2/25/2025 17:08	64704	LITI_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/25/2025 17:13	43304	WATS_T2	0	0	0	0	0	0	0.24	0.54	0	0	0	0	0	0
2/25/2025 17:28	67605	WARW_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/25/2025 17:28	67604	WARW_T1	0	0	0	0	0	0	0.69	-0.01	0	0	0	0	0	0
2/25/2025 17:49	24105	EHAZ_T1	4	4	0	6.43	6.43	0	0	0	0	0	0	0	0	0
2/25/2025 17:49	24102	EHAZ_T1	0	0	0	0	0	0	-0.76	-0.87	0	0	0	0	0	0
2/25/2025 17:49	24101	EHAZ_T1	1	15	14	0.2	0.37	0.17	0	0	0	0	0	0	0	0
2/25/2025 18:11	67605	WARW_T1	2	7	5	0.2	0.33	0.13	-0.8	-0.81	0	0	0	0	0	0
2/25/2025 18:31	41002	LAUR_T2	4	5	1	0.58	0.7	0.12	-0.93	-0.92	0	0	0	0	0	0
2/25/2025 18:31	41001	LAUR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 18:37	62607	ENGL_T1	0	0	0	0	0	0	-0.75	-0.74	0	0	0	0	0	0
2/25/2025 19:06	64503	LAVI_T1	0	0	0	0	0	0	-0.56	-0.51	1	1	0	1200	1200	0
2/25/2025 19:09	64503	LAVI_T1	0	0	0	0	0	0	-1.12	-1.02	2	2	0	2400	2400	0
2/25/2025 19:10	64503	LAVI_T1	0	0	0	0	0	0	-0.56	-0.51	1	1	0	1200	1200	0
2/25/2025 19:13	46203	DANV_T2	102	154	52	0.5	0.68	0.18	-0.99	-1	0	0	0	0	0	0
2/25/2025 19:27	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:30	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:32	23901	EFMO_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
2/25/2025 19:32	54601	SUMM_T2	3	9	6	0.23	0.4	0.17	-1.87	-1.87	2	2	0	2100	2100	0
2/25/2025 19:34	24501	GOUL_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
2/25/2025 19:39	44302	BEAV_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
2/25/2025 19:39	45602	WOOL_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
2/25/2025 19:39	44301	BEAV_T2	2	2	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
2/25/2025 19:40	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
2/25/2025 19:41	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
2/25/2025 19:42	45602	WOOL_T1	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
2/25/2025 19:42	44302	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:42	44301	BEAV_T2	2	2	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
2/25/2025 19:44	29402	BELT_T1	1	1	0	9.4	9.1	-0.3	0	0	0	0	0	0	0	0
2/25/2025 19:44	29401	BELT_T1	61	9	-52	0.28	0.12	-0.16	0	0	0	0	0	0	0	0
2/25/2025 19:45	44301	BEAV_T2	2	1	-1	0.65	0	-0.65	0	0	0	0	0	0	0	0
2/25/2025 19:45	44302	BEAV_T2	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
2/25/2025 19:46	59101	WALK_T2	0	0	0	0	0	0	0.42	0.48	1	1	0	600	600	0
2/25/2025 19:46	47401	PENS_T1	0	0	0	0	0	0	0.76	0.79	0	0	0	0	0	0
2/25/2025 19:46	47403	PENS_T1	0	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0
2/25/2025 19:46	46602	LACR_T1	0	0	0	0	0	0	-0.74	-0.75	0	0	0	0	0	0
2/25/2025 19:46	58201	NEWV_T1	1	1	0	1.7	1.2	-0.5	0	0	0	0	0	0	0	0
2/25/2025 19:46	44301	BEAV_T2	2	1	-1	0.65	0	-0.65	0.73	0.64	1	1	0	600	600	0
2/25/2025 19:48	51004	NHAR_T1	15	10	-5	0.91	1.24	0.33	0	0	0	0	0	0	0	0
2/25/2025 19:48	51003	NHAR_T1	1	2	1	7.2	6.6	-0.6	0	0	0	0	0	0	0	0
2/25/2025 19:48	44301	BEAV_T2	2	1	-1	0.65	0	-0.65	0.73	0.64	1	1	0	600	600	0
2/25/2025 19:48	14201	EALL_T1	0	0	0	0	0	0	0.51	0.51	0	0	0	0	0	0
2/25/2025 19:48	20402	ASHF_T2	2	2	0	0.15	0.25	0.1	0	0	0	0	0	0	0	0
2/25/2025 19:48	51006	NHAR_T1	15	4	-11	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
2/25/2025 19:48	51002	NHAR_T1	45	32	-13	0.24	0.19	-0.05	0	0	0	0	0	0	0	0
2/25/2025 19:48	20401	ASHF_T2	4	7	3	0.7	0.6	-0.1	-0.2	-0.24	1	1	0	600	600	0
2/25/2025 19:49	47203	FAXO_T2	1	1	0	0.1	0	-0.1	-0.45	-0.42	0	0	0	0	0	0
2/25/2025 19:49	46001	BERW_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
2/25/2025 19:49	55001	NEWP_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
2/25/2025 19:49	42701	AUGU_T1	1	1	0	0.7	0.9	0.2	0	0	2	2	0	1800	1800	0
2/25/2025 19:49	55002	NEWP_T1	4	4	0	0.68	0.95	0.27	0	0	0	0	0	0	0	0
2/25/2025 19:49	62605	ENGL_T1	0	0	0	0	0	0	-0.87	-0.88	0	0	0	0	0	0
2/25/2025 19:50	43402	BENT_T1	0	0	0	0	0	0	-0.94	-0.94	1	1	0	900	900	0
2/25/2025 19:50	29401	BELT_T1	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
2/25/2025 19:50	13905	SEID_T1	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
2/25/2025 19:50	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:50	54201	PENN_T1	3	10	7	1.3	0.96	-0.34	0.03	0.02	0	0	0	0	0	0
2/25/2025 19:50	15703	TANN_T2	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
2/25/2025 19:50	13904	SEID_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/25/2025 19:50	57401	SPAN_T1	2	2	0	0.35	0.95	0.6	-0.89	-0.9	1	1	0	600	600	0
2/25/2025 19:50	62607	ENGL_T1	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
2/25/2025 19:50	29402	BELT_T1	1	1	0	9.1	9	-0.1	0	0	0	0	0	0	0	0
2/25/2025 19:50	54203	PENN_T1	18	18	0	0.63	1.32	0.69	0	0	0	0	0	0	0	0
2/25/2025 19:50	15702	TANN_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
2/25/2025 19:51	29402	BELT_T1	1	1	0	9.1	9	-0.1	0	0	0	0	0	0	0	0
2/25/2025 19:51	17805	GILB_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
2/25/2025 19:51	45501	DERR_T2	0	0	0	0	0	0	0.54	0.47	2	2	0	1800	1800	0
2/25/2025 19:51	13502	MCMI_T1	0	0	0	0	0	0	-0.15	-0.16	0	0	0	0	0	0
2/25/2025 19:51	42902	MIDD_T2	1	1	0	0.6	0	-0.6	-0.34	-0.42	0	0	0	0	0	0
2/25/2025 19:51	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:51	64904	MILL_T1	0	2	2	0	0.1	0.1	-0.51	-0.51	0	0	0	0	0	0
2/25/2025 19:51	44301	BEAV_T2	2	1	-1	0.65	0	-0.65	0	0	0	0	0	0	0	0
2/25/2025 19:51	15701	TANN_T1	1	1	0	4.1	4.6	0.5	0.1	0.1	0	0	0	0	0	0
2/25/2025 19:51	42903	MIDD_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
2/25/2025 19:51	64901	MILL_T1	0	22	22	0	0.16	0.16	0	0	0	0	0	0	0	0
2/25/2025 19:51	29401	BELT_T1	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
2/25/2025 19:52	45501	DERR_T2	0	0	0	0	0	0	0.54	0.47	2	2	0	1800	1800	0
2/25/2025 19:52	10805	CHHI_T2	1	6	5	8.4	8.3	-0.1	-0.85	-0.83	1	1	0	600	600	0
2/25/2025 19:52	16102	BING_T2	1	1	0	4.3	4	-0.3	0	0	0	0	0	0	0	0
2/25/2025 19:52	16101	BING_T2	1	0	-1	0.8	0	-0.8	0.44	0.38	0	0	0	0	0	0
2/25/2025 19:53	67605	WARW_T1	3	15	12	0.37	0.29	-0.08	-0.84	-0.84	0	0	0	0	0	0
2/25/2025 19:53	60801	BUCK_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
2/25/2025 19:53	40504	CRES_T1	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
2/25/2025 19:53	24102	EHAZ_T1	2	1	-1	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/25/2025 19:53	15601	NSTR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:53	40505	CRES_T1	0	0	0	0	0	0	0.46	0.42	0	0	0	0	0	0
2/25/2025 19:53	45701	LIND_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
2/25/2025 19:53	59101	WALK_T2	0	0	0	0	0	0	0.48	0.56	1	1	0	600	600	0
2/25/2025 19:53	45702	LIND_T2	1	1	0	1.3	1.7	0.4	0	0	0	0	0	0	0	0
2/25/2025 19:53	42701	AUGU_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
2/25/2025 19:53	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:53	15603	NSTR_T2	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
2/25/2025 19:53	46802	HEPB_T1	1	1	0	1.2	1.6	0.4	-1.26	-1.28	0	0	0	0	0	0
2/25/2025 19:53	67603	WARW_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
2/25/2025 19:53	62604	ENGL_T1	0	0	0	0	0	0	-0.45	-0.57	0	0	0	0	0	0
2/25/2025 19:53	24101	EHAZ_T1	32	30	-2	2.04	1.61	-0.43	0	0	0	0	0	0	0	0
2/25/2025 19:53	24103	EHAZ_T1	0	0	0	0	0	0	-0.33	-0.3	0	0	0	0	0	0
2/25/2025 19:53	17802	GILB_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
2/25/2025 19:53	24105	EHAZ_T1	4	4	0	6.75	6.45	-0.3	0	0	0	0	0	0	0	0
2/25/2025 19:54	54203	PENN_T1	18	18	0	0.63	1.32	0.69	0	0	0	0	0	0	0	0
2/25/2025 19:54	43202	MVIL_T2	0	0	0	0	0	0	-0.65	-0.7	0	0	0	0	0	0
2/25/2025 19:54	40802	EXCH_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
2/25/2025 19:54	57401	SPAN_T1	2	2	0	0.35	0.95	0.6	-0.9	-0.8	1	1	0	600	600	0
2/25/2025 19:54	42902	MIDD_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/25/2025 19:54	42903	MIDD_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
2/25/2025 19:54	14204	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:54	10903	COOP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:54	13303	ORVI_T1	0	0	0	0	0	0	0.82	0.83	0	0	0	0	0	0
2/25/2025 19:54	54201	PENN_T1	3	10	7	1.3	0.96	-0.34	0.02	0.03	0	0	0	0	0	0
2/25/2025 19:54	44505	HAMI_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
2/25/2025 19:54	44502	HAMI_T2	1	1	0	2.7	3.2	0.5	0.02	0.02	0	0	0	0	0	0
2/25/2025 19:54	63501	HEID_TBK1-2	1	1	0	0.2	0.5	0.3	0.38	0.3	0	0	0	0	0	0
2/25/2025 19:54	40505	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:55	63501	HEID_TBK1-2	1	1	0	0.2	0.5	0.3	0.38	0.3	0	0	0	0	0	0
2/25/2025 19:55	54201	PENN_T1	3	10	7	1.3	0.96	-0.34	0	0	0	0	0	0	0	0
2/25/2025 19:55	60803	BUCK_T1	0	0	0	0	0	0	-0.56	-0.57	1	1	0	600	600	0
2/25/2025 19:55	45501	DERR_T2	0	0	0	0	0	0	1.08	0.94	4	4	0	3600	3600	0
2/25/2025 19:55	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:55	45701	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:55	43202	MVIL_T2	0	0	0	0	0	0	-0.65	-0.7	0	0	0	0	0	0
2/25/2025 19:55	64704	LITI_T1	0	0	0	0	0	0	0.2	0.13	1	1	0	600	600	0
2/25/2025 19:55	45702	LIND_T2	1	1	0	1.3	1.7	0.4	0	0	0	0	0	0	0	0
2/25/2025 19:55	52502	PROG_T2	0	0	0	0	0	0	0.3	0.33	0	0	0	0	0	0
2/25/2025 19:55	54203	PENN_T1	18	18	0	0.63	1.32	0.69	0.56	0.55	0	0	0	0	0	0
2/25/2025 19:55	67502	WEWI_T2	0	33	33	0	0.14	0.14	0	0	0	0	0	0	0	0
2/25/2025 19:55	15601	NSTR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:55	42701	AUGU_T1	1	1	0	0.7	0.9	0.2	0	0	2	2	0	1800	1800	0
2/25/2025 19:56	14801	TREI_T2	0	0	0	0	0	0	0.96	0.98	0	0	0	0	0	0
2/25/2025 19:56	10801	CHHI_T1	0	0	0	0	0	0	-1.55	-1.55	2	2	0	1500	1500	0
2/25/2025 19:56	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:56	40201	BEGA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 19:56	48301	ORWI_T1	2	2	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
2/25/2025 19:56	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:56	54506	ENOL_T2	0	0	0	0	0	0	-0.06	-0.07	1	1	0	600	600	0
2/25/2025 19:56	10401	LIGA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:56	14205	EALL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:56	11301	EMMA_T1	0	0	0	0	0	0	-0.86	-0.85	0	0	0	0	0	0
2/25/2025 19:56	60201	ATGL_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
2/25/2025 19:56	57401	SPAN_T1	2	2	0	0.35	0.95	0.6	-2.69	-2.41	3	3	0	1800	1800	0
2/25/2025 19:56	42701	AUGU_T1	1	1	0	0.7	0.9	0.2	0	0	2	2	0	1800	1800	0
2/25/2025 19:56	54505	ENOL_T2	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
2/25/2025 19:56	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:56	13301	ORVI_T1	0	0	0	0	0	0	0.17	0.1	0	0	0	0	0	0
2/25/2025 19:56	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1.06	0	0	0	0	0	0
2/25/2025 19:56	46101	MACI_T2	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
2/25/2025 19:57	42903	MIDD_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
2/25/2025 19:57	65602	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 19:57	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:57	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:57	63501	HEID_TBK1-2	1	1	0	0.2	0.5	0.3	0.38	0.3	0	0	0	0	0	0
2/25/2025 19:57	64704	LITI_T1	0	0	0	0	0	0	0.2	0.13	1	1	0	600	600	0
2/25/2025 19:57	42701	AUGU_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
2/25/2025 19:57	43801	SWIL_T1	2	2	0	3.2	3.35	0.15	0	0	0	0	0	0	0	0
2/25/2025 19:57	47401	PENS_T1	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
2/25/2025 19:57	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:57	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:57	48302	ORWI_T2	2	2	0	0.6	0.8	0.2	-0.1	-0.09	0	0	0	0	0	0
2/25/2025 19:57	54601	SUMM_T2	2	9	7	0.15	0.4	0.25	0	0	0	0	0	0	0	0
2/25/2025 19:57	42902	MIDD_T2	1	1	0	0.6	0	-0.6	-0.34	-0.42	0	0	0	0	0	0
2/25/2025 19:57	40501	CRES_T2	7	9	2	0.21	0.24	0.03	0	0	0	0	0	0	0	0
2/25/2025 19:57	47403	PENS_T1	0	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0
2/25/2025 19:57	47104	MARL_T1	0	0	0	0	0	0	-0.9	-0.95	0	0	0	0	0	0
2/25/2025 19:57	44502	HAMI_T2	1	1	0	2.7	3.2	0.5	0	0	0	0	0	0	0	0
2/25/2025 19:57	61301	EARL_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
2/25/2025 19:57	46101	MACI_T2	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
2/25/2025 19:57	65601	QVIL_T2	0	0	0	0	0	0	-1.28	-1.3	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/25/2025 19:57	57401	SPAN_T1	2	2	0	0.35	0.95	0.6	-0.9	-0.8	1	1	0	600	600	0
2/25/2025 19:57	62607	ENGL_T1	0	0	0	0	0	0	-0.78	-0.76	0	0	0	0	0	0
2/25/2025 19:58	54201	PENN_T1	3	10	7	1.3	0.96	-0.34	0.02	0.03	0	0	0	0	0	0
2/25/2025 19:58	10101	ALLE_T3	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
2/25/2025 19:58	14204	EALL_T2	0	0	0	0	0	0	0.2	0.1	0	0	0	0	0	0
2/25/2025 19:58	29402	BELT_T1	1	1	0	9.1	9	-0.1	0	0	0	0	0	0	0	0
2/25/2025 19:58	45501	DERR_T2	0	0	0	0	0	0	0.54	0.47	2	2	0	1800	1800	0
2/25/2025 19:58	62605	ENGL_T1	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
2/25/2025 19:58	58102	NEKI_T1	1	1	0	0.8	1.4	0.6	0.26	0.1	0	0	0	0	0	0
2/25/2025 19:58	11202	ELHE_T2	0	0	0	0	0	0	0.37	0.35	1	1	0	1200	1200	0
2/25/2025 19:58	57201	ROSS_T1	0	0	0	0	0	0	-0.71	-0.75	0	0	0	0	0	0
2/25/2025 19:58	59101	WALK_T2	0	0	0	0	0	0	0.48	0.56	1	1	0	600	600	0
2/25/2025 19:58	48301	ORWI_T1	2	2	0	5.1	5.2	0.1	-0.64	-0.59	1	1	0	900	900	0
2/25/2025 19:58	40201	BEGA_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 19:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:58	13302	ORVI_T2	0	2	2	0	0.1	0.1	2.72	2.81	0	0	0	0	0	0
2/25/2025 19:58	14205	EALL_T2	0	0	0	0	0	0	-0.59	-0.62	0	0	0	0	0	0
2/25/2025 19:58	54203	PENN_T1	18	18	0	0.63	1.32	0.69	0	0	0	0	0	0	0	0
2/25/2025 19:58	16103	BING_T2	0	0	0	0	0	0	-1.1	-1.09	2	2	0	1500	1500	0
2/25/2025 19:58	16101	BING_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
2/25/2025 19:58	55102	WERT_T2	0	0	0	0	0	0	-0.45	-0.49	0	0	0	0	0	0
2/25/2025 19:58	42701	AUGU_T1	1	1	0	0.7	0.9	0.2	0	0	2	2	0	1800	1800	0
2/25/2025 19:58	29401	BELT_T1	0	9	9	0	0.12	0.12	0	0	1	1	0	900	900	0
2/25/2025 19:58	60801	BUCK_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
2/25/2025 19:58	14802	TREI_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
2/25/2025 19:58	47101	MARL_T1	0	0	0	0	0	0	-1.16	-1.13	0	0	0	0	0	0
2/25/2025 19:58	16102	BING_T2	1	1	0	4.3	4	-0.3	0	0	0	0	0	0	0	0
2/25/2025 19:58	14201	EALL_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
2/25/2025 19:58	15103	UPHA_T2	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
2/25/2025 19:58	15101	UPHA_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
2/25/2025 19:58	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:58	40802	EXCH_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
2/25/2025 19:58	45802	HEGI_T2	46	45	-1	0.68	0.74	0.06	0.88	0.89	0	0	0	0	0	0
2/25/2025 19:59	57401	SPAN_T1	2	2	0	0.35	0.95	0.6	-0.9	-0.8	1	1	0	600	600	0
2/25/2025 19:59	24202	PROV_T4	39	94	55	0.18	0.22	0.04	-0.74	-0.81	1	1	0	1200	1200	0
2/25/2025 19:59	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
2/25/2025 19:59	43202	MVIL_T2	0	0	0	0	0	0	-0.65	-0.7	0	0	0	0	0	0
2/25/2025 19:59	65603	QVIL_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
2/25/2025 19:59	24206	PROV_T4	0	9	9	0	0.18	0.18	0	0	0	0	0	0	0	0
2/25/2025 19:59	41002	LAUR_T2	4	8	4	0.68	0.44	-0.24	0	0	0	0	0	0	0	0
2/25/2025 19:59	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/25/2025 19:59	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:59	42503	ALTA_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
2/25/2025 19:59	61304	EARL_T1	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
2/25/2025 19:59	57203	ROSS_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
2/25/2025 19:59	62106	ELAN_T1	0	0	0	0	0	0	0.12	0.04	0	0	0	0	0	0
2/25/2025 19:59	63501	HEID_TBK1-2	1	1	0	0.2	0.5	0.3	0.38	0.3	0	0	0	0	0	0
2/25/2025 19:59	55102	WERT_T2	0	0	0	0	0	0	-0.45	-0.49	0	0	0	0	0	0
2/25/2025 19:59	61701	ELIZ_T1	1	1	0	5	5.4	0.4	0	0	0	0	0	0	0	0
2/25/2025 19:59	44301	BEAV_T2	2	1	-1	0.65	0	-0.65	0	0	0	0	0	0	0	0
2/25/2025 19:59	24703	FLND_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 19:59	15703	TANN_T2	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
2/25/2025 19:59	40501	CRES_T2	7	9	2	0.21	0.24	0.03	0	0	0	0	0	0	0	0
2/25/2025 19:59	55001	NEWP_T1	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
2/25/2025 19:59	61703	ELIZ_T1	0	0	0	0	0	0	-2.57	-2.8	2	2	0	2100	2100	0
2/25/2025 19:59	24701	FLND_T2	6	0	-6	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/25/2025 19:59	65602	QVIL_T2	0	2	2	0	0.1	0.1	0.12	0.12	0	0	0	0	0	0
2/25/2025 19:59	55002	NEWP_T1	4	4	0	0.68	0.95	0.27	0	0	0	0	0	0	0	0
2/25/2025 19:59	41001	LAUR_T2	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
2/25/2025 19:59	64201	KINZ_T1	0	1	1	0	0.8	0.8	0.1	0.13	4	4	0	1200	1200	0
2/25/2025 19:59	24702	FLND_T2	0	0	0	0	0	0	-0.32	-0.18	1	1	0	1200	1200	0
2/25/2025 19:59	16801	WASN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:00	57002	WHII_T2	0	0	0	0	0	0	-1.22	-1.19	1	1	0	1200	1200	0
2/25/2025 20:00	55001	NEWP_T1	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
2/25/2025 20:00	45801	HEGI_T1	0	0	0	0	0	0	-0.39	-0.39	1	1	0	900	900	0
2/25/2025 20:00	40505	CRES_T1	0	0	0	0	0	0	0.46	0.42	0	0	0	0	0	0
2/25/2025 20:00	55002	NEWP_T1	4	6	2	0.95	0.86	-0.09	-0.27	-0.27	0	0	0	0	0	0
2/25/2025 20:00	62607	ENGL_T1	0	0	0	0	0	0	-0.78	-0.76	0	0	0	0	0	0
2/25/2025 20:00	16103	BING_T2	0	0	0	0	0	0	-1.1	-1.09	2	2	0	1500	1500	0
2/25/2025 20:00	13302	ORVI_T2	1	5	4	0.1	0.1	0	1.36	1.41	0	0	0	0	0	0
2/25/2025 20:00	13303	ORVI_T1	0	0	0	0	0	0	0.82	0.83	0	0	0	0	0	0
2/25/2025 20:00	60803	BUCK_T1	0	1	1	0	0.1	0.1	-0.56	-0.57	1	1	0	600	600	0
2/25/2025 20:00	16102	BING_T2	1	1	0	4	4.3	0.3	-0.11	-0.12	0	0	0	0	0	0
2/25/2025 20:00	15601	NSTR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:00	40201	BEGA_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/25/2025 20:00	42302	MOWR_T2	0	0	0	0	0	0	0.7	0.69	0	0	0	0	0	0
2/25/2025 20:00	54504	ENOL_T2	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
2/25/2025 20:00	54505	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
2/25/2025 20:00	62606	ENGL_T1	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
2/25/2025 20:00	57203	ROSS_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
2/25/2025 20:00	14204	EALL_T2	0	0	0	0	0	0	0.2	0.1	0	0	0	0	0	0
2/25/2025 20:00	62605	ENGL_T1	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
2/25/2025 20:00	61302	EARL_T1	0	0	0	0	0	0	0.24	0	1	1	0	1200	1200	0
2/25/2025 20:00	11303	EMMA_T1	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
2/25/2025 20:00	10801	OHHI_T1	0	0	0	0	0	0	-1.55	-1.55	2	2	0	1500	1500	0
2/25/2025 20:01	54505	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
2/25/2025 20:01	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
2/25/2025 20:01	62606	ENGL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:01	57401	SPAN_T1	2	2	0	0.95	0.55	-0.4	-1.8	-1.6	2	2	0	1200	1200	0
2/25/2025 20:01	45001	LIME_2	1	3	2	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
2/25/2025 20:01	57402	SPAN_T2	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
2/25/2025 20:01	46001	BERW_T1	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
2/25/2025 20:01	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:01	64201	KINZ_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
2/25/2025 20:01	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:01	57404	SPAN_T2	0	0	0	0	0	0	-0.07	-0.06	1	1	0	1200	1200	0
2/25/2025 20:01	54503	ENOL_T2	0	0	0	0	0	0	-0.42	-0.42	1	1	0	600	600	0
2/25/2025 20:01	63501	HEID_TBK1-2	1	1	0	0.5	0.4	-0.1	0.38	0.3	0	0	0	0	0	0
2/25/2025 20:01	62601	ENGL_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
2/25/2025 20:01	21705	SUBU_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
2/25/2025 20:01	61703	ELIZ_T1	0	0	0	0	0	0	-2.57	-2.8	2	2	0	2100	2100	0
2/25/2025 20:01	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
2/25/2025 20:01	60803	BUCK_T1	0	1	1	0	0.1	0.1	-1.12	-1.14	2	2	0	1200	1200	0
2/25/2025 20:01	21701	SUBU_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
2/25/2025 20:01	45002	LIME_2	1	1	0	4.6	4.5	-0.1	0.5	0.52	0	0	0	0	0	0
2/25/2025 20:01	44505	HAMI_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
2/25/2025 20:01	44502	HAMI_T2	1	1	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
2/25/2025 20:01	42701	AUGU_T1	1	1	0	0.9	0.9	0	0	0	2	2	0	1800	1800	0
2/25/2025 20:01	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:01	67605	WARW_T1	11	13	2	0.33	0.25	-0.08	-0.84	-0.84	0	0	0	0	0	0
2/25/2025 20:01	54506	ENOL_T2	0	0	0	0	0	0	-0.06	-0.07	1	1	0	600	600	0
2/25/2025 20:01	61701	ELIZ_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
2/25/2025 20:01	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
2/25/2025 20:01	65602	QVIL_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
2/25/2025 20:01	46101	MACI_T2	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
2/25/2025 20:01	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:01	45003	LIME_2	4	3	-1	1.1	1.45	0.35	0	0	0	0	0	0	0	0
2/25/2025 20:01	65601	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 20:01	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:02	43801	SWIL_T1	2	2	0	3.35	3.35	0	0	0	0	0	0	0	0	0
2/25/2025 20:02	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 20:02	14204	EALL_T2	0	0	0	0	0	0	0.2	0.1	0	0	0	0	0	0
2/25/2025 20:02	60801	BUCK_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
2/25/2025 20:02	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:02	60201	ATGL_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
2/25/2025 20:02	63501	HEID_TBK1-2	1	1	0	0.5	0.4	-0.1	0.38	0.3	0	0	0	0	0	0
2/25/2025 20:02	57205	ROSS_T1	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
2/25/2025 20:02	43202	MVIL_T2	0	0	0	0	0	0	-1.3	-1.4	0	0	0	0	0	0
2/25/2025 20:02	54505	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
2/25/2025 20:02	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:02	55002	NEWP_T1	4	6	2	0.95	0.86	-0.09	-0.27	-0.27	0	0	0	0	0	0
2/25/2025 20:02	67605	WARW_T1	11	13	2	0.33	0.25	-0.08	-0.84	-0.84	0	0	0	0	0	0
2/25/2025 20:02	44502	HAMI_T2	1	1	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
2/25/2025 20:02	28403	HART_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:02	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:02	10801	OHHI_T1	0	0	0	0	0	0	-1.55	-1.55	2	2	0	1500	1500	0
2/25/2025 20:02	54504	ENOL_T2	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
2/25/2025 20:02	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:02	54503	ENOL_T2	0	0	0	0	0	0	-0.42	-0.42	1	1	0	600	600	0
2/25/2025 20:02	43802	SWIL_T1	0	0	0	0	0	0	-0.19	-0.2	1	1	0	600	600	0
2/25/2025 20:02	44301	BEAV_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
2/25/2025 20:03	40505	CRES_T1	0	0	0	0	0	0	0.92	0.84	0	0	0	0	0	0
2/25/2025 20:03	54503	ENOL_T2	0	0	0	0	0	0	-0.84	-0.84	2	2	0	1200	1200	0
2/25/2025 20:03	40504	CRES_T1	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
2/25/2025 20:03	65601	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 20:03	54203	PENN_T1	18	18	0	1.32	1.11	-0.21	0.56	0.55	0	0	0	0	0	0
2/25/2025 20:03	40501	CRES_T2	9	7	-2	0.24	0.27	0.03	0	0	0	0	0	0	0	0
2/25/2025 20:03	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
2/25/2025 20:03	15702	TANN_T2	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
2/25/2025 20:03	46102	MACI_T1	0	0	0	0	0	0	0.65	0.65	0	0	0	0	0	0
2/25/2025 20:03	63501	HEID_TBK1-2	1	1	0	0.5	0.4	-0.1	0.38	0.3	0	0	0	0	0	0
2/25/2025 20:03	21403	EXET_T2	0	0	0	0	0	0	-1.39	-1.4	0	0	0	0	0	0
2/25/2025 20:03	61701	ELIZ_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
2/25/2025 20:03	40802	EXCH_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
2/25/2025 20:03	54505	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
2/25/2025 20:03	60803	BUCK_T1	0	1	1	0	0.1	0.1	-0.56	-0.57	1	1	0	600	600	0
2/25/2025 20:03	67303	WYOM_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
2/25/2025 20:03	54201	PENN_T1	10	0	0	0.96	0.82	-0.14	0	0	0	0	0	0	0	0
2/25/2025 20:03	45602	WOOL_T1	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
2/25/2025 20:03	61703	ELIZ_T1	0	0	0	0	0	0	-2.57	-2.8	2	2	0	2100	2100	0
2/25/2025 20:03	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:03	45802	HEGI_T2	39	47	8	0.64	0.99	0.35	0	0	0	0	0	0	0	0
2/25/2025 20:03	61304	EARL_T1	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/25/2025 20:03	15703	TANN_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
2/25/2025 20:03	65602	QVIL_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
2/25/2025 20:03	60801	BUCK_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
2/25/2025 20:04	20603	GRWO_T2	0	9	9	0	0.22	0.22	0	0	0	0	0	0	0	0
2/25/2025 20:04	14802	TREI_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
2/25/2025 20:04	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.24	1	1	0	600	600	0
2/25/2025 20:04	57203	ROSS_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
2/25/2025 20:04	52402	GRPA_T2	3	5	2	1.03	0.63	-0.4	0	0	0	0	0	0	0	0
2/25/2025 20:04	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 20:04	54505	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
2/25/2025 20:04	62102	ELAN_T1	0	0	0	0	0	0	0.74	0.64	0	0	0	0	0	0
2/25/2025 20:04	20601	GRWO_T2	0	0	0	0	0	0	0.19	0.24	0	0	0	0	0	0
2/25/2025 20:04	10805	CHHI_T2	1	7	6	8.3	8.3	0	-0.85	-0.83	1	1	0	600	600	0
2/25/2025 20:04	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:04	52404	GRPA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
2/25/2025 20:04	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:04	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:04	54504	ENOL_T2	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
2/25/2025 20:04	11301	EMMA_T1	0	0	0	0	0	0	-0.86	-0.85	0	0	0	0	0	0
2/25/2025 20:04	57002	WHHI_T2	0	0	0	0	0	0	-1.22	-1.19	1	1	0	1200	1200	0
2/25/2025 20:04	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:04	14204	EALL_T2	0	0	0	0	0	0	0.2	0.1	0	0	0	0	0	0
2/25/2025 20:04	54206	PENN_T2	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
2/25/2025 20:04	62605	ENGL_T1	0	0	0	0	0	0	-0.88	-0.87	0	0	0	0	0	0
2/25/2025 20:04	45802	HEGI_T2	39	47	8	0.64	0.99	0.35	0.88	0.89	0	0	0	0	0	0
2/25/2025 20:05	61703	ELIZ_T1	0	0	0	0	0	0	-5.13	-5.6	4	4	0	4200	4200	0
2/25/2025 20:05	50501	MECH_T1	4	4	0	1.25	1.08	-0.17	0	0	0	0	0	0	0	0
2/25/2025 20:05	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.24	1	1	0	600	600	0
2/25/2025 20:05	57401	SPAN_T1	2	2	0	0.95	0.55	-0.4	0	0	0	0	0	0	0	0
2/25/2025 20:05	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:05	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:05	40101	HUNT_T2	0	1	1	0	0	0	-1.51	-1.48	0	0	0	0	0	0
2/25/2025 20:05	46505	LOHA_T1	0	0	0	0	0	0	-0.34	-0.35	1	1	0	600	600	0
2/25/2025 20:05	46504	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/25/2025 20:05	61701	ELIZ_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
2/25/2025 20:05	54601	SUMM_T2	9	7	-2	0.4	0.36	-0.04	-1.87	-1.89	2	2	0	2100	2100	0
2/25/2025 20:05	67502	WEWI_T2	0	43	43	0	0.13	0.13	0	0	0	0	0	0	0	0
2/25/2025 20:05	46506	LOHA_T1	3	3	0	3.43	3.3	-0.13	0	0	0	0	0	0	0	0
2/25/2025 20:05	50502	MECH_T1	1	1	0	2.7	2.4	-0.3	0	0	0	0	0	0	0	0
2/25/2025 20:05	65901	SAKR_T2	0	0	0	0	0	0	-1.42	-1.46	1	1	0	900	900	0
2/25/2025 20:05	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:05	46501	LOHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:05	50506	MECH_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
2/25/2025 20:05	65904	SAKR_T2	0	0	0	0	0	0	-1.9	-1.89	2	2	0	900	900	0
2/25/2025 20:05	43202	MVIL_T2	0	0	0	0	0	0	-0.65	-0.7	0	0	0	0	0	0
2/25/2025 20:05	67201	TEHI_T1	0	0	0	0	0	0	-0.11	-0.03	1	1	0	900	900	0
2/25/2025 20:06	50502	MECH_T1	1	1	0	2.7	2.4	-0.3	0	0	0	0	0	0	0	0
2/25/2025 20:06	40505	CRES_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
2/25/2025 20:06	55105	WERT_T1	0	0	0	0	0	0	-0.61	-0.67	1	1	0	900	900	0
2/25/2025 20:06	11303	EMMA_T1	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
2/25/2025 20:06	62105	ELAN_T1	0	0	0	0	0	0	0.82	0.8	0	0	0	0	0	0
2/25/2025 20:06	62606	ENGL_T1	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
2/25/2025 20:06	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:06	46004	BERW_T2	0	1	1	0	0	0	-0.57	-0.59	0	0	0	0	0	0
2/25/2025 20:06	48301	ORWI_T1	2	2	0	5.1	5.55	0.45	-0.59	-0.67	1	1	0	900	900	0
2/25/2025 20:06	58401	MORO_T1	0	0	0	0	0	0	-2.42	-2.48	2	2	0	1200	1200	0
2/25/2025 20:06	57203	ROSS_T1	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
2/25/2025 20:06	50501	MECH_T1	4	4	0	1.25	1.08	-0.17	0	0	0	0	0	0	0	0
2/25/2025 20:06	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:06	50506	MECH_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
2/25/2025 20:06	13303	ORVI_T1	0	0	0	0	0	0	0.82	0.83	0	0	0	0	0	0
2/25/2025 20:06	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:06	14502	SCHO_T1	1	1	0	1.2	1.5	0.3	0.23	0.21	0	0	0	0	0	0
2/25/2025 20:06	67605	WARW_T1	11	13	2	0.33	0.25	-0.08	-0.84	-0.86	0	0	0	0	0	0
2/25/2025 20:06	57205	ROSS_T1	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
2/25/2025 20:06	57201	ROSS_T1	0	0	0	0	0	0	-2.14	-2.24	0	0	0	0	0	0
2/25/2025 20:07	54503	ENOL_T2	0	0	0	0	0	0	-0.42	-0.44	1	1	0	600	600	0
2/25/2025 20:07	60801	BUCK_T1	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
2/25/2025 20:07	54502	ENOL_T2	0	0	0	0	0	0	-1.39	-1.37	0	0	0	0	0	0
2/25/2025 20:07	58401	MORO_T1	0	0	0	0	0	0	-1.24	-1.23	1	1	0	600	600	0
2/25/2025 20:07	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 20:07	57401	SPAN_T1	2	2	0	0.95	0.55	-0.4	0	0	0	0	0	0	0	0
2/25/2025 20:07	54601	SUMM_T2	9	7	-2	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
2/25/2025 20:07	64704	UTI_T1	0	0	0	0	0	0	0.13	0.9	1	0	-1	600	0	-600
2/25/2025 20:07	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:07	54505	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
2/25/2025 20:07	52501	PROG_T1	0	0	0	0	0	0	0.37	0.4	1	1	0	300	300	0
2/25/2025 20:08	61304	EARL_T1	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
2/25/2025 20:08	59101	WALK_T2	0	0	0	0	0	0	0.56	0.71	1	1	0	600	600	0
2/25/2025 20:08	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 20:08	57205	ROSS_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
2/25/2025 20:08	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:08	15104	UPHA_T2	0	0	0	0	0	0	0.37	0.4	0	0	0	0	0	0
2/25/2025 20:08	67605	WARW_T1	11	13	2	0.33	0.25	-0.08	-0.84	-0.86	0	0	0	0	0	0
2/25/2025 20:08	40501	CRES_T2	9	7	-2	0.24	0.27	0.03	0	0	0	0	0	0	0	0
2/25/2025 20:08	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
2/25/2025 20:08	60801	BUCK_T1	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
2/25/2025 20:08	67901	WNHO_T2	10	3	-7	0.17	0.17	0	-0.1	-0.1	0	0	0	0	0	0
2/25/2025 20:09	57401	SPAN_T1	2	2	0	0.95	0.55	-0.4	-0.8	-0.84	1	1	0	600	600	0
2/25/2025 20:09	64904	MILL_T1	0	4	4	0	0.1	0.1	-0.51	-0.53	0	0	0	0	0	0
2/25/2025 20:09	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:09	65601	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 20:09	64901	MILL_T1	11	34	23	0.12	0.18	0.06	0	0	0	0	0	0	0	0
2/25/2025 20:09	64203	KINZ_T1	0	0	0	0	0	0	-0.48	-0.44	1	1	0	600	600	0
2/25/2025 20:09	65602	QVIL_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
2/25/2025 20:09	64201	KINZ_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
2/25/2025 20:09	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
2/25/2025 20:09	40505	CRES_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
2/25/2025 20:09	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:09	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
2/25/2025 20:10	65601	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 20:10	54505	ENOL_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
2/25/2025 20:10	63501	HEID_TBK1-2	1	1	0	0.5	0.4	-0.1	0.3	0.33	0	0	0	0	0	0
2/25/2025 20:10	67605	WARW_T1	11	13	2	0.33	0.25	-0.08	0	0	0	0	0	0	0	0
2/25/2025 20:10	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:10	61701	ELIZ_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
2/25/2025 20:10	65602	QVIL_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
2/25/2025 20:10	54504	ENOL_T2	0	0	0	0	0	0	-1.1	-1.12	1	1	0	600	600	0
2/25/2025 20:10	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:10	65603	QVIL_T2	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
2/25/2025 20:10	67604	WARW_T1	0	0	0	0	0	0	0.02	0.38	0	0	0	0	0	0
2/25/2025 20:11	52404	GRPA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
2/25/2025 20:11	52402	GRPA_T2	3	5	2	1.03	0.63	-0.4	0	0	0	0	0	0	0	0
2/25/2025 20:11	52403	GRPA_T2	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
2/25/2025 20:12	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:12	62605	ENGL_T1	0	0	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0
2/25/2025 20:12	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
2/25/2025 20:13	57401	SPAN_T1	2	2	0	0.95	0.55	-0.4	-0.8	-0.84	1	1	0	600	600	0
2/25/2025 20:13	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:13	65601	QVIL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/25/2025 20:13	65602	QVIL_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
2/25/2025 20:15	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:15	61301	EARL_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
2/25/2025 20:18	14801	TREI_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
2/25/2025 20:21	57403	SPAN_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
2/25/2025 20:21	57401	SPAN_T1	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
2/25/2025 20:27	54601	SUMM_T2	6	7	1	0.37	0.36	-0.01	-1.88	-1.87	2	2	0	2100	2100	0
2/25/2025 20:33	54506	ENOL_T2	0	0	0	0	0	0	-0.11	-0.13	1	1	0	600	600	0
2/25/2025 20:33	54505	ENOL_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
2/25/2025 20:58	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2025 20:58	67605	WARW_T1	11	14	3	0.21	0.33	0.12	0	0	0	0	0	0	0	0
2/25/2025 21:07	62101	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/25/2025 21:07	62106	ELAN_T1	1	7	6	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/25/2025 21:07	62103	ELAN_T1	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
2/25/2025 21:07	62105	ELAN_T1	0	52	52	0	0.12	0.12	0	0	0	0	0	0	0	0
2/25/2025 21:07	62102	ELAN_T1	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
2/25/2025 21:08	29402	BELT_T1	1	2	1	9.4	4.8	-4.6	0	0	0	0	0	0	0	0
2/25/2025 21:08	29401	BELT_T1	53	64	11	0.28	0.26	-0.02	0	0	1	1	0	900	900	0
2/25/2025 21:34	61304	EARL_T1	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
2/26/2025 0:47	57401	SPAN_T1	0	0	0	0	0	0	-1.03	-1.1	1	1	0	600	600	0
2/26/2025 0:49	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 1:21	44301	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 1:21	44302	BEAV_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
2/26/2025 1:50	17805	GILB_T2	0	0	0	0	0	0	-0.21	-0.17	0	0	0	0	0	0
2/26/2025 2:01	46002	BERW_T2	0	0	0	0	0	0	-1.57	-1.57	1	1	0	900	900	0
2/26/2025 2:18	54505	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/26/2025 2:18	54504	ENOL_T2	0	0	0	0	0	0	-1.1	-1.1	1	1	0	600	600	0
2/26/2025 2:21	54505	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/26/2025 2:21	54501	ENOL_T2	0	0	0	0	0	0	-1.07	-1.12	1	1	0	600	600	0
2/26/2025 2:21	42701	AUGU_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/26/2025 2:31	57203	ROSS_T1	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
2/26/2025 2:32	50502	MECH_T1	1	5	4	0.5	0.46	-0.04	0	0	0	0	0	0	0	0
2/26/2025 2:32	50506	MECH_T1	0	0	0	0	0	0	-0.21	-0.19	0	0	0	0	0	0
2/26/2025 2:47	67605	WARW_T1	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/26/2025 2:47	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.08	0	0	0	0	0	0
2/26/2025 2:52	54505	ENOL_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/26/2025 2:52	54501	ENOL_T2	0	0	0	0	0	0	-1.13	-1.12	1	1	0	600	600	0
2/26/2025 7:35	20601	GRWO_T2	113	18	-95	0.59	0.62	0.03	0.7	0.75	0	0	0	0	0	0
2/26/2025 7:41	41901	REED_T1	0	8	8	0	0.36	0.36	0	0	0	0	0	0	0	0
2/26/2025 7:41	41902	REED_T1	0	2	2	0	0.1	0.1	1.1	0.34	0	0	0	0	0	0
2/26/2025 7:43	44901	SCOT_T2	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
2/26/2025 7:43	45501	DERR_T2	0	0	0	0	0	0	0.7	0.71	2	2	0	1800	1800	0
2/26/2025 7:45	67106	SPRI_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/26/2025 7:46	44902	SCOT_T2	0	270	270	0	0.21	0.21	-0.96	-0.93	0	0	0	0	0	0
2/26/2025 7:54	64902	MILL_T2	0	0	0	0	0	0	-0.7	-0.68	1	1	0	900	900	0
2/26/2025 7:59	45501	DERR_T2	0	0	0	0	0	0	0.71	0.59	2	2	0	1800	1800	0
2/26/2025 8:00	65602	QVIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/26/2025 8:00	65603	QVIL_T2	0	0	0	0	0	0	-0.52	-0.46	0	0	0	0	0	0
2/26/2025 8:01	40505	CRES_T1	0	0	0	0	0	0	0.5	0.4	0	0	0	0	0	0
2/26/2025 8:01	46203	DANV_T2	9	119	110	0.14	0.66	0.52	-0.89	-0.9	0	0	0	0	0	0
2/26/2025 8:01	46206	DANV_T2	3	3	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/26/2025 8:01	40504	CRES_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 8:01	46204	DANV_T2	3	3	0	0.37	0	-0.37	0	0	0	0	0	0	0	0
2/26/2025 8:02	40505	CRES_T1	0	0	0	0	0	0.5	0.4	0	0	0	0	0	0	0
2/26/2025 8:02	46206	DANV_T2	3	3	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/26/2025 8:02	40504	CRES_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 8:02	46204	DANV_T2	3	3	0	0.37	0	-0.37	0	0	0	0	0	0	0	0
2/26/2025 8:02	46203	DANV_T2	9	119	110	0.14	0.66	0.52	-1.79	-1.79	0	0	0	0	0	0
2/26/2025 8:04	46204	DANV_T2	3	3	0	0.37	0	-0.37	0	0	0	0	0	0	0	0
2/26/2025 8:04	46203	DANV_T2	9	119	110	0.14	0.66	0.52	-0.89	-0.9	0	0	0	0	0	0
2/26/2025 8:04	46206	DANV_T2	3	3	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/26/2025 8:12	52501	PROG_T1	221	245	24	0.3	0.31	0.01	0	0	0	0	0	0	0	0
2/26/2025 8:12	55002	NEWP_T1	4	5	1	0.63	0.8	0.17	-0.22	-0.23	0	0	0	0	0	0
2/26/2025 8:12	52504	PROG_T1	38	167	129	0.1	0.12	0.02	0	0	0	0	0	0	0	0
2/26/2025 8:13	52501	PROG_T1	221	245	24	0.3	0.31	0.01	-0.79	-0.47	1	0	-1	300	0	-300
2/26/2025 8:13	52504	PROG_T1	38	167	129	0.1	0.12	0.02	0	0	0	0	0	0	0	0
2/26/2025 8:14	52504	PROG_T1	38	167	129	0.1	0.12	0.02	0	0	0	0	0	0	0	0
2/26/2025 8:14	52501	PROG_T1	221	245	24	0.3	0.31	0.01	0	0	0	0	0	0	0	0
2/26/2025 8:16	52501	PROG_T1	244	157	-87	0.31	0.15	-0.16	-1.58	-0.94	2	0	-2	600	0	-600
2/26/2025 8:16	52504	PROG_T1	167	7	-160	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
2/26/2025 8:18	44901	SCOT_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
2/26/2025 8:18	44902	SCOT_T2	270	324	54	0.21	0.24	0.03	-1.96	-1.9	0	0	0	0	0	0
2/26/2025 8:26	65206	PRIN_T4	1	0	-1	3.1	0	-3.1	0	0	0	0	0	0	0	0
2/26/2025 8:26	65207	PRIN_T4	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/26/2025 8:26	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 8:27	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 8:27	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 8:29	52501	PROG_T1	244	157	-87	0.31	0.15	-0.16	-0.47	-0.45	0	0	0	0	0	0
2/26/2025 8:29	52504	PROG_T1	167	7	-160	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
2/26/2025 8:30	60701	BREC_T1	0	0	0	0	0	0	-0.42	-0.44	2	2	0	1200	1200	0
2/26/2025 8:31	65603	QVIL_T2	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
2/26/2025 8:31	60701	BREC_T1	0	0	0	0	0	0	-0.42	-0.44	2	2	0	1200	1200	0
2/26/2025 8:31	65602	QVIL_T2	0	41	41	0	0.4	0.4	0	0	0	0	0	0	0	0
2/26/2025 8:32	60701	BREC_T1	0	0	0	0	0	0	-1.27	-1.33	6	6	0	3600	3600	0
2/26/2025 8:33	60701	BREC_T1	0	0	0	0	0	0	-1.27	-1.33	6	6	0	3600	3600	0
2/26/2025 8:36	60701	BREC_T1	0	0	0	0	0	0	-0.44	-0.51	2	2	0	1200	1200	0
2/26/2025 8:39	64904	MILL_T1	4	4	0	0.18	0.23	0.05	-0.41	0.53	0	0	0	0	0	0
2/26/2025 8:39	64901	MILL_T1	43	47	4	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
2/26/2025 8:42	41901	REED_T1	7	6	-1	0.21	0.14	-0.07	0	0	0	0	0	0	0	0
2/26/2025 8:42	41902	REED_T1	0	0	0	0	0	0	2.38	2.3	0	0	0	0	0	0
2/26/2025 8:42	64901	MILL_T1	43	47	4	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
2/26/2025 8:42	64904	MILL_T1	4	4	0	0.18	0.23	0.05	-0.41	0.53	0	0	0	0	0	0
2/26/2025 8:43	41901	REED_T1	7	6	-1	0.21	0.14	-0.07	0	0	0	0	0	0	0	0
2/26/2025 8:43	41902	REED_T1	0	0	0	0	0	0	1.19	1.15	0	0	0	0	0	0
2/26/2025 8:44	58302	NOTT_T1	0	0	0	0	0	0	-1.36	-0.28	2	1	-1	2100	1200	-900
2/26/2025 8:50	63501	HEID_TBK1-2	0	2	2	0	0.2	0.2	0.09	0.1	1	1	0	900	900	0
2/26/2025 8:58	22602	KIMB_T1	0	1	1	0	0.2	0.2	0.13	0.12	0	0	0	0	0	0
2/26/2025 9:00	10901	COOP_T2	1	4	3	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
2/26/2025 9:00	45501	DERR_T2	0	0	0	0	0	0	0.44	0.4	2	2	0	1800	1800	0
2/26/2025 9:00	20401	ASHF_T2	7	9	2	0.54	0.68	0.14	-0.18	-0.19	1	1	0	600	600	0
2/26/2025 9:00	67502	WEWI_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
2/26/2025 9:00	53903	HALI_T2	2	3	1	0.85	1.17	0.32	0	0	0	0	0	0	0	0
2/26/2025 9:00	40504	CRES_T1	32	0	-32	0.12	0	-0.12	0	0	0	0	0	0	0	0
2/26/2025 9:00	10903	COOP_T2	31	46	15	0.25	0.31	0.06	0	0	0	0	0	0	0	0
2/26/2025 9:00	67501	WEWI_T2	0	0	0	0	0	0	-0.06	-0.03	0	0	0	0	0	0
2/26/2025 9:00	40505	CRES_T1	1	0	-1	0.1	0	-0.1	0.48	0.49	0	0	0	0	0	0
2/26/2025 9:00	20403	ASHF_T2	3	22	19	0.23	0.3	0.07	0	0	0	0	0	0	0	0
2/26/2025 9:00	41902	REED_T1	0	0	0	0	0	0	1.15	1.09	0	0	0	0	0	0
2/26/2025 9:00	41901	REED_T1	5	2	-3	0.14	0.2	0.06	0	0	0	0	0	0	0	0
2/26/2025 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
2/26/2025 9:00	53901	HALI_T2	1	2	1	0.7	0.6	-0.1	-1.01	-1.01	0	0	0	0	0	0
2/26/2025 9:00	53902	HALI_T2	1	1	0	5.6	6.1	0.5	0	0	0	0	0	0	0	0
2/26/2025 9:00	20402	ASHF_T2	8	3	-5	1.1	0.3	-0.8	0	0	0	0	0	0	0	0
2/26/2025 9:01	46004	BERW_T2	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
2/26/2025 9:03	42701	AUGU_T1	1	1	0	1.4	1.5	0.1	0	0	2	2	0	1800	1800	0
2/26/2025 9:04	45501	DERR_T2	0	0	0	0	0	0	0.44	0.4	2	2	0	1800	1800	0
2/26/2025 9:04	10901	COOP_T2	1	4	3	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
2/26/2025 9:04	40801	EXCH_T2	0	0	0	0	0	0	-0.53	-0.52	1	1	0	1200	1200	0
2/26/2025 9:04	40802	EXCH_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/26/2025 9:04	10903	COOP_T2	31	46	15	0.25	0.31	0.06	-0.25	-0.29	1	1	0	600	600	0
2/26/2025 9:05	47203	FAXO_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
2/26/2025 9:06	61502	EPET_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/26/2025 9:06	61301	EARL_T1	0	0	0	0	0	0	-0.43	0.23	1	0	-1	900	0	-900
2/26/2025 9:06	61503	EPET_T1	0	0	0	0	0	0	-1.06	-0.48	0	0	0	0	0	0
2/26/2025 9:07	45501	DERR_T2	0	0	0	0	0	0	0.4	0.42	2	2	0	1800	1800	0
2/26/2025 9:07	61301	EARL_T1	0	0	0	0	0	0	0.23	0.26	0	0	0	0	0	0
2/26/2025 9:09	47101	MARL_T1	0	1	1	0	0.2	0.2	-1.14	-1.06	0	0	0	0	0	0
2/26/2025 9:12	13303	ORVI_T1	0	0	0	0	0	0	0.93	0.9	0	0	0	0	0	0
2/26/2025 9:13	52004	LING_T2	2	4	2	6.15	4.37	-1.78	0.21	0.23	0	0	0	0	0	0
2/26/2025 9:13	52006	LING_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
2/26/2025 9:13	52002	LING_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
2/26/2025 9:14	52002	LING_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
2/26/2025 9:14	52006	LING_T2	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
2/26/2025 9:14	52004	LING_T2	2	4	2	6.15	4.37	-1.78	0.21	0.23	0	0	0	0	0	0
2/26/2025 9:15	52006	LING_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
2/26/2025 9:15	52002	LING_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
2/26/2025 9:15	52004	LING_T2	3	4	1	4.23	3.45	-0.78	0.21	0.23	0	0	0	0	0	0
2/26/2025 9:16	67603	WARW_T1	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
2/26/2025 9:16	14801	TREI_T2	0	2	2	0	0.2	0.2	0.42	0.39	0	0	0	0	0	0
2/26/2025 9:16	67605	WARW_T1	27	44	17	0.43	0.59	0.16	0	0	0	0	0	0	0	0
2/26/2025 9:16	14802	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/26/2025 9:17	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 9:17	52006	LING_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
2/26/2025 9:17	52004	LING_T2	3	4	1	4.23	3.45	-0.78	0.21	0.23	0	0	0	0	0	0
2/26/2025 9:17	67605	WARW_T1	27	44	17	0.43	0.59	0.16	0	0	0	0	0	0	0	0
2/26/2025 9:17	67604	WARW_T1	0	0	0	0	0	0	0.13	0.18	0	0	0	0	0	0
2/26/2025 9:17	52002	LING_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
2/26/2025 9:18	14801	TREI_T2	0	2	2	0	0.2	0.2	0.42	0.39	0	0	0	0	0	0
2/26/2025 9:18	67201	TEHI_T1	2	0	-2	0.1	0	-0.1	0.32	0.52	1	1	0	900	900	0
2/26/2025 9:18	14802	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/26/2025 9:19	67605	WARW_T1	27	44	17	0.43	0.59	0.16	0	0	0	0	0	0	0	0
2/26/2025 9:19	67604	WARW_T1	0	0	0	0	0	0	0.13	0.18	0	0	0	0	0	0
2/26/2025 9:19	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 9:20	63501	HEID_TBK1-2	2	4	2	0.2	0.28	0.08	0.61	0.39	2	2	0	1800	1800	0
2/26/2025 9:20	67605	WARW_T1	27	44	17	0.43	0.59	0.16	-0.95	-0.83	0	0	0	0	0	0
2/26/2025 9:21	63501	HEID_TBK1-2	2	4	2	0.2	0.28	0.08	0.2	0.23	1	1	0	900	900	0
2/26/2025 9:21	54505	ENOL_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
2/26/2025 9:21	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 9:21	54502	ENOL_T2	1	1	0	0.7	0.6	-0.1	-2.07	-2.08	1	1	0	600	600	0
2/26/2025 9:22	63501	HEID_TBK1-2	2	4	2	0.2	0.28	0.08	0.2	0.23	1	1	0	900	900	0
2/26/2025 9:22	46802	HEPB_T1	1	1	0	2.1	2	-0.1	-1.26	-1.32	0	0	0	0	0	0
2/26/2025 9:22	17401	FOHI_T1	0	0	0	0	0	0	-1.06	-0.85	0	0	0	0	0	0
2/26/2025 9:22	61304	EARL_T1	0	1	1	0	0.2	0.2	-0.66	-0.72	1	1	0	600	600	0
2/26/2025 9:22	61302	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 9:23	63501	HEID_TBK1-2	2	4	2	0.2	0.28	0.08	0.2	0.23	1	1	0	900	900	0
2/26/2025 9:24	64904	MILL_T1	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
2/26/2025 9:25	64704	UTI_T1	0	0	0	0	0	0	0.19	0.2	2	2	0	1200	1200	0
2/26/2025 9:25	63501	HEID_TBK1-2	2	4	2	0.2	0.28	0.08	0.2	0.23	1	1	0	900	900	0
2/26/2025 9:28	65601	QVIL_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/26/2025 9:28	65602	QVIL_T2	36	43	7	0.33	0.54	0.21	0	0	0	0	0	0	0	0
2/26/2025 9:29	65503	MOJO_T2	0	1	1	0	0	0	-0.88	-0.82	1	1	0	900	900	0
2/26/2025 9:29	41902	REED_T1	0	1	1	0	0.1	0.1	1.13	1.1	0	0	0	0	0	0
2/26/2025 9:29	41901	REED_T1	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/26/2025 9:30	41901	REED_T1	2	7	5	0.15	0.33	0.18	0	0	0	0	0	0	0	0
2/26/2025 9:30	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 9:30	41902	REED_T1	0	1	1	0	0.2	0.2	2.27	2.19	0	0	0	0	0	0
2/26/2025 9:30	55002	NEWP_T1	6	6	0	0.8	1.15	0.35	-0.48	-0.48	0	0	0	0	0	0
2/26/2025 9:30	65503	MOJO_T2	0	1	1	0	0	0	-0.88	-0.82	1	1	0	900	900	0
2/26/2025 9:30	55001	NEWP_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
2/26/2025 9:31	55002	NEWP_T1	6	6	0	0.8	1.15	0.35	-0.24	-0.24	0	0	0	0	0	0
2/26/2025 9:31	65503	MOJO_T2	0	1	1	0	0	0	-0.88	-0.82	1	1	0	900	900	0
2/26/2025 9:31	48301	ORWI_T1	2	2	0	5.15	5.3	0.15	-0.72	-0.69	1	1	0	900	900	0
2/26/2025 9:31	55001	NEWP_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
2/26/2025 9:32	65503	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 9:32	17401	FOHI_T1	0	0	0	0	0	0	-1.06	-0.85	0	0	0	0	0	0
2/26/2025 9:32	67605	WARW_T1	34	43	9	0.49	0.62	0.13	-2.5	-2.45	0	0	0	0	0	0
2/26/2025 9:32	13302	ORVI_T2	2	2	0	0.4	0.2	-0.2	1.11	0.99	0	0	0	0	0	0
2/26/2025 9:32	42503	ALTA_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
2/26/2025 9:32	67603	WARW_T1	0	1	1	0	0.1	0.1	0.04	0.05	0	0	0	0	0	0
2/26/2025 9:32	65502	MOJO_T2	0	0	0	0	0	0	-0.28	-0.35	0	0	0	0	0	0
2/26/2025 9:33	55002	NEWP_T1	6	6	0	0.8	1.15	0.35	-0.24	-0.24	0	0	0	0	0	0
2/26/2025 9:33	65601	QVIL_T2	0	4	4	0	0.15	0.15	-1.13	-1.21	1	1	0	900	900	0
2/26/2025 9:33	65602	QVIL_T2	40	43	3	0.49	0.56	0.07	0	0	0	0	0	0	0	0
2/26/2025 9:33	55001	NEWP_T1	1	1	0	0.8	1	0.2	-0.78	-0.83	0	0	0	0	0	0
2/26/2025 9:36	10801	CHHI_T1	0	0	0	0	0	0	-0.94	-0.95	1	1	0	900	900	0
2/26/2025 9:39	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 9:42	17802	GILB_T1	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
2/26/2025 9:48	59202	THOM_T1	20	3	-17	0.28	0.3	0.02	0	0	0	0	0	0	0	0
2/26/2025 9:48	24202	PROV_T4	0	0	0	0	0	0	-0.75	-0.73	1	1	0	1200	1200	0
2/26/2025 9:48	59201	THOM_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/26/2025 9:48	24206	PROV_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 9:48	14801	TREI_T2	2	5	3	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/26/2025 9:48	14802	TREI_T2	0	3	3	0	0.27	0.27	0.47	0.41	0	0	0	0	0	0
2/26/2025 9:54	16801	WAGN_T1	28	78	50	0.26	0.5	0.24	0	0	0	0	0	0	0	0
2/26/2025 9:56	59202	THOM_T1	20	3	-17	0.28	0.3	0.02	0	0	0	0	0	0	0	0
2/26/2025 9:56	24101	EHAZ_T1	8	2	-6	0.28	0	-0.28	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/26/2025 9:56	24103	EHAZ_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
2/26/2025 9:56	59201	THOM_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/26/2025 9:56	24102	EHAZ_T1	1	7	6	2.4	0	-2.4	0	0	0	0	0	0	0	0
2/26/2025 9:56	24105	EHAZ_T1	4	4	0	6.45	6.23	-0.22	0	0	0	0	0	0	0	0
2/26/2025 9:57	59201	THOM_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/26/2025 9:57	59202	THOM_T1	20	3	-17	0.28	0.3	0.02	0	0	0	0	0	0	0	0
2/26/2025 9:58	65004	NEFF_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
2/26/2025 9:58	65001	NEFF_T2	0	0	0	0	0	0	-0.07	-0.12	0	0	0	0	0	0
2/26/2025 9:58	65005	NEFF_T2	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
2/26/2025 9:58	20603	GRWO_T2	9	8	-1	0.1	0.11	0.01	-0.63	-0.58	1	1	0	900	900	0
2/26/2025 9:58	20601	GRWO_T2	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
2/26/2025 9:59	43202	MVIL_T2	2	50	48	0.35	0.27	-0.08	-0.58	-0.57	0	0	0	0	0	0
2/26/2025 9:59	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/26/2025 10:02	40101	HUNT_T2	1	1	0	0.5	0.4	-0.1	-1.3	-1.29	0	0	0	0	0	0
2/26/2025 10:02	43202	MVIL_T2	50	27	-23	0.27	0.2	-0.07	-0.58	-0.57	0	0	0	0	0	0
2/26/2025 10:02	58401	MORO_T1	0	2	2	0	0.15	0.15	-1.06	-1.06	1	1	0	600	600	0
2/26/2025 10:02	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/26/2025 10:03	57205	ROSS_T1	1	3	2	1.3	0.73	-0.57	0.1	0.11	0	0	0	0	0	0
2/26/2025 10:03	58401	MORO_T1	0	2	2	0	0.15	0.15	-1.06	-1.06	1	1	0	600	600	0
2/26/2025 10:04	67901	WNHO_T2	0	1	1	0	0.1	0.1	0.56	0.65	1	1	0	900	900	0
2/26/2025 10:04	13902	SEID_T1	1	0	-1	0.1	0	-0.1	0.39	0.37	0	0	0	0	0	0
2/26/2025 10:04	13901	SEID_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/26/2025 10:05	42701	AUGU_T1	1	4	3	1.8	0.8	-1	0	0	0	0	0	0	0	0
2/26/2025 10:07	54505	ENOL_T2	1	2	1	1.1	0.85	-0.25	0	0	0	0	0	0	0	0
2/26/2025 10:07	54501	ENOL_T2	3	4	1	0.13	0.43	0.3	0	0	0	0	0	0	0	0
2/26/2025 10:07	54502	ENOL_T2	1	3	2	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
2/26/2025 10:07	54504	ENOL_T2	0	1	1	0	0.3	0.3	-1.06	-1.08	1	1	0	600	600	0
2/26/2025 10:08	10401	LIGA_T1	70	78	8	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
2/26/2025 10:09	42701	AUGU_T1	1	4	3	1.8	0.8	-1	0	0	2	2	0	1800	1800	0
2/26/2025 10:09	54502	ENOL_T2	1	3	2	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
2/26/2025 10:09	54501	ENOL_T2	3	4	1	0.13	0.43	0.3	0	0	0	0	0	0	0	0
2/26/2025 10:09	54504	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/26/2025 10:09	54505	ENOL_T2	1	2	1	1.1	0.85	-0.25	-0.66	-0.66	1	1	0	600	600	0
2/26/2025 10:10	42701	AUGU_T1	1	4	3	1.8	0.8	-1	0	0	2	2	0	1800	1800	0
2/26/2025 10:12	47402	PENS_T1	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
2/26/2025 10:12	47403	PENS_T1	2	4	2	0.15	0.73	0.58	0	0	0	0	0	0	0	0
2/26/2025 10:12	47401	PENS_T1	4	5	1	0.7	1.02	0.32	0.76	0.93	0	0	0	0	0	0
2/26/2025 10:13	58101	NEKI_T1	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
2/26/2025 10:13	58102	NEKI_T1	2	2	0	0.55	0.5	-0.05	0.39	0.27	0	0	0	0	0	0
2/26/2025 10:14	47401	PENS_T1	4	5	1	0.7	1.02	0.32	0	0	0	0	0	0	0	0
2/26/2025 10:14	47403	PENS_T1	2	4	2	0.15	0.73	0.58	0	0	0	0	0	0	0	0
2/26/2025 10:14	22602	KIMB_T1	1	1	0	0.5	0.4	-0.1	0.19	0.13	0	0	0	0	0	0
2/26/2025 10:14	47402	PENS_T1	1	1	0	0.1	1	0.9	0	0	0	0	0	0	0	0
2/26/2025 10:14	22601	KIMB_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
2/26/2025 10:15	22601	KIMB_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
2/26/2025 10:15	22602	KIMB_T1	1	1	0	0.4	0.1	-0.3	0.19	0.13	0	0	0	0	0	0
2/26/2025 10:16	41001	LAUR_T2	69	69	0	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
2/26/2025 10:16	41002	LAUR_T2	36	34	-2	0.34	0.31	-0.03	-1	-1.04	0	0	0	0	0	0
2/26/2025 10:17	41902	REED_T1	2	1	-1	0.35	0.5	0.15	1.03	1.16	0	0	0	0	0	0
2/26/2025 10:17	41901	REED_T1	3	7	4	0.13	0.2	0.07	0	0	0	0	0	0	0	0
2/26/2025 10:18	57205	ROSS_T1	3	3	0	0.6	0.83	0.23	0	0	0	0	0	0	0	0
2/26/2025 10:18	14801	TREI_T2	3	6	3	0.37	0.3	-0.07	0.36	0.37	0	0	0	0	0	0
2/26/2025 10:18	14802	TREI_T2	1	2	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/26/2025 10:18	18001	ZION_T1	3	5	2	6.5	4.1	-2.4	0	0	0	0	0	0	0	0
2/26/2025 10:18	57201	ROSS_T1	0	0	0	0	0	0	-0.42	-0.38	0	0	0	0	0	0
2/26/2025 10:19	41901	REED_T1	3	7	4	0.13	0.2	0.07	0	0	0	0	0	0	0	0
2/26/2025 10:19	41902	REED_T1	2	1	-1	0.35	0.5	0.15	1.03	1.16	0	0	0	0	0	0
2/26/2025 10:20	46002	BERW_T2	1	0	-1	0.2	0	-0.2	-0.61	-0.61	1	1	0	900	900	0
2/26/2025 10:20	45501	DERR_T2	0	2	2	0	0.35	0.35	1	0.89	4	4	0	3600	3600	0
2/26/2025 10:20	46004	BERW_T2	2	2	0	0.45	0.9	0.45	0	0	0	0	0	0	0	0
2/26/2025 10:22	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 10:22	10101	ALLE_T3	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
2/26/2025 10:22	60701	BREC_T1	0	0	0	0	0	0	0.08	0.03	1	1	0	600	600	0
2/26/2025 10:23	20601	GRWO_T2	1	1	0	2.8	1.9	-0.9	0.69	0.78	0	0	0	0	0	0
2/26/2025 10:23	46002	BERW_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/26/2025 10:23	24702	FLND_T2	0	0	0	0	0	0	0.3	0.39	1	1	0	1200	1200	0
2/26/2025 10:23	20603	GRWO_T2	5	0	-5	0.12	0	-0.12	0	0	0	0	0	0	0	0
2/26/2025 10:23	60701	BREC_T1	0	0	0	0	0	0	0.15	0.06	2	2	0	1200	1200	0
2/26/2025 10:23	24703	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 10:23	46004	BERW_T2	2	2	0	0.45	0.9	0.45	-0.14	-0.57	0	0	0	0	0	0
2/26/2025 10:23	45501	DERR_T2	0	2	2	0	0.35	0.35	0.44	0.43	2	2	0	1800	1800	0
2/26/2025 10:24	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 10:24	46903	MNTG_T2	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
2/26/2025 10:24	46901	MNTG_T2	0	0	0	0	0	0	0.05	0.15	1	1	0	1200	1200	0
2/26/2025 10:24	46004	BERW_T2	2	2	0	0.45	0.9	0.45	-0.07	-0.28	0	0	0	0	0	0
2/26/2025 10:24	46002	BERW_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/26/2025 10:26	46901	MNTG_T2	0	0	0	0	0	0	0.05	0.15	1	1	0	1200	1200	0
2/26/2025 10:26	46903	MNTG_T2	1	1	0	0.2	1	0.8	-0.58	-0.61	1	1	0	600	600	0
2/26/2025 10:33	42701	AUGU_T1	3	4	1	0.8	0.73	-0.07	0	0	4	4	0	3600	3600	0
2/26/2025 10:33	60701	BREC_T1	0	0	0	0	0	0	0.23	0.09	3	3	0	1800	1800	0
2/26/2025 10:34	14801	TREI_T2	3	7	4	0.3	0.5	0.2	0.37	0.34	0	0	0	0	0	0
2/26/2025 10:34	14802	TREI_T2	1	6	5	0.6	0.23	-0.37	0	0	0	0	0	0	0	0
2/26/2025 10:34	60701	BREC_T1	0	0	0	0	0	0	0.15	0.06	2	2	0	1200	1200	0
2/26/2025 10:34	10801	CHIH_T1	0	0	0	0	0	0	-0.94	-0.9	1	1	0	900	900	0
2/26/2025 10:35	60701	BREC_T1	0	0	0	0	0	0	0.08	0.03	1	1	0	600	600	0
2/26/2025 10:36	10801	CHIH_T1	0	0	0	0	0	0	-0.94	-0.9	1	1	0	900	900	0
2/26/2025 10:38	45801	HEGI_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/26/2025 10:39	40802	EXCH_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
2/26/2025 10:39	45501	DERR_T2	1	2	1	0.3	0.65	0.35	0.43	0.47	2	2	0	1800	1800	0
2/26/2025 10:39	60701	BREC_T1	0	0	0	0	0	0	0.03	0.07	1	1	0	600	600	0
2/26/2025 10:39	40801	BICH_T2	1	2	1	0.1	0.1	0	-0.52	-0.5	1	1	0	1200	1200	0
2/26/2025 10:40	10101	ALLE_T3	1	2	1	5.8	5.9	0.1	0	0	0	0	0	0	0	0
2/26/2025 10:40	45801	HEGI_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/26/2025 10:40	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 10:44	58201	NEWV_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/26/2025 10:44	58202	NEWV_T1	11	10	-1	0.74	0.9	0.16	-0.03	-0.04	0	0	0	0	0	0
2/26/2025 10:45	58401	MORO_T1	1	1	0	0.2	0.1	-0.1	-2.22	-2.2	2	2	0	1200	1200	0
2/26/2025 10:45	57205	ROSS_T1	1	3	2	1.9	0.8	-1.1	0.11	0.12	0	0	0	0	0	0
2/26/2025 10:45	42601	TUSC_T1	1	1	0	0.6	0.8	0.2	-0.09	-0.2	4	4	0	3600	3600	0
2/26/2025 10:46	58401	MORO_T1	1	1	0	0.2	0.1	-0.1	-1.11	-1.1	1	1	0	600	600	0
2/26/2025 10:47	52503	PROG_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/26/2025 10:47	52502	PROG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 10:49	41602	CLEV_T1	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
2/26/2025 10:49	41601	CLEV_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/26/2025 10:50	15001	BLMO_T1	12	17	5	0.29	0.2	-0.09	0	0	0	0	0	0	0	0
2/26/2025 10:50	60803	BUCK_T1	5	8	3	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
2/26/2025 10:50	41601	CLEV_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/26/2025 10:50	60801	BUCK_T1	1	1	0	0.4	0.3	-0.1	0.11	0.21	0	0	0	0	0	0
2/26/2025 10:50	41602	CLEV_T1	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
2/26/2025 10:51	54504	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/26/2025 10:51	54501	ENOL_T2	4	4	0	0.53	0.55	0.02	0	0	0	0	0	0	0	0
2/26/2025 10:51	54502	ENOL_T2	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/26/2025 10:51	54506	ENOL_T2	0	0	0	0	0	0	-0.07	-0.01	1	1	0	600	600	0
2/26/2025 10:51	54505	ENOL_T2	2	2	0	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
2/26/2025 10:52	15001	BLMO_T1	12	17	5	0.29	0.2	-0.09	0	0	0	0	0	0	0	0
2/26/2025 10:53	64201	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/26/2025 10:53	64202	KINZ_T1	3	4	1	0.2	0.53	0.33	0.68	0.71	0	0	0	0	0	0
2/26/2025 10:53	64203	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 10:53	64204	KINZ_T1	69	74	5	0.9	1.3	0.4	0	0	0	0	0	0	0	0
2/26/2025 10:56	64203	KINZ_T1	0	1	1	0	0.1	0.1	0.1	-0.05	2	2	0	1800	1800	0
2/26/2025 10:56	20602	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 10:56	64201	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/26/2025 10:56	64202	KINZ_T1	3	4	1	0.2	0.53	0.33	0	0	0	0	0	0	0	0
2/26/2025 10:56	64204	KINZ_T1	69	74	5	0.9	1.3	0.4	0	0	0	0	0	0	0	0
2/26/2025 10:56	20601	GRWO_T2	1	1	0	1.9	1.6	-0.3	0.7	0.68	0	0	0	0	0	0
2/26/2025 10:58	17804	GILB_T2	3	3	0	0.3	0.43	0.13	0	0	0	0	0	0	0	0
2/26/2025 10:58	17803	GILB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/26/2025 10:58	17805	GILB_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/26/2025 11:00	48302	ORWI_T2	2	2	0	1.2	1.3	0.1	-0.03	-0.02	0	0	0	0	0	0
2/26/2025 11:00	64101	REFR_T1	1	5	4	0.1	0.56	0.46	0	0	0	0	0	0	0	0
2/26/2025 11:00	48303	ORWI_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/26/2025 11:02	64101	REFR_T1	1	5	4	0.1	0.56	0.46	-0.39	-0.28	0	0	0	0	0	0
2/26/2025 11:04	41602	CLEV_T1	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
2/26/2025 11:04	65601	QVIL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/26/2025 11:04	41601	CLEV_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/26/2025 11:04	65602	QVIL_T2	11	41	30	0.14	0.38	0.24	0	0	0	0	0	0	0	0
2/26/2025 11:04	65603	QVIL_T2	0	0	0	0	0	0	0.2	0.43	0	0	0	0	0	0
2/26/2025 11:05	41601	CLEV_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/26/2025 11:05	48902	FOSP_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/26/2025 11:05	65601	QVIL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/26/2025 11:05	65602	QVIL_T2	11	41	30	0.14	0.38	0.24	0	0	0	0	0	0	0	0
2/26/2025 11:05	41602	CLEV_T1	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
2/26/2025 11:05	65603	QVIL_T2	0	0	0	0	0	0	0.2	0.43	0	0	0	0	0	0
2/26/2025 11:05	42701	AUGU_T1	4	4	0	0.53	0.8	0.27	0	0	2	2	0	1800	1800	0
2/26/2025 11:05	48901	FOSP_T2	0	1	1	0	0.1	0.1	-0.02	0	1	1	0	600	600	0
2/26/2025 11:06	48902	FOSP_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/26/2025 11:06	24702	FLND_T2	0	2	2	0	0.45	0.45	0.06	0.11	1	1	0	1200	1200	0
2/26/2025 11:06	48901	FOSP_T2	0	1	1	0	0.1	0.1	0	-0.08	2	2	0	1200	1200	0
2/26/2025 11:06	61801	EELI_T2	8	7	-1	0.24	0.26	0.02	-0.44	-0.43	0	0	0	0	0	0
2/26/2025 11:06	24701	FLND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 11:07	61801	EELI_T2	8	7	-1	0.24	0.26	0.02	0	0	0	0	0	0	0	0
2/26/2025 11:07	48902	FOSP_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/26/2025 11:07	54505	ENOL_T2	2	1	-1	0.65	1.1	0.45	-0.66	-0.66	1	1	0	600	600	0
2/26/2025 11:07	48901	FOSP_T2	0	1	1	0	0.1	0.1	0	-0.04	1	1	0	600	600	0
2/26/2025 11:07	54502	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/26/2025 11:07	54501	ENOL_T2	4	4	0	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
2/26/2025 11:07	54504	ENOL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
2/26/2025 11:07	61502	EPET_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/26/2025 11:07	61803	EELI_T2	0	0	0	0	0	0	0.87	0.83	0	0	0	0	0	0
2/26/2025 11:07	61504	EPET_T2	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
2/26/2025 11:07	61505	EPET_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
2/26/2025 11:08	10805	CHIH_T2	1	1	0	7.4	7.5	0.1	-1.01	-1.02	1	1	0	600	600	0
2/26/2025 11:08	48902	FOSP_T2	1	1	0	0.2	0.3	0.1	0.6	0.7	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/26/2025 11:08	48901	FOSP_T2	0	1	1	0	0.1	0.1	0	-0.04	1	1	0	600	600	0
2/26/2025 11:09	48902	FOSP_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/26/2025 11:09	48901	FOSP_T2	0	1	1	0	0.1	0.1	0	-0.04	1	1	0	600	600	0
2/26/2025 11:10	54502	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/26/2025 11:10	54505	ENOL_T2	2	1	-1	0.65	1.1	0.45	-0.66	-0.66	1	1	0	600	600	0
2/26/2025 11:10	54501	ENOL_T2	4	4	0	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
2/26/2025 11:10	48901	FOSP_T2	0	1	1	0	0.1	0.1	0	-0.12	3	3	0	1800	1800	0
2/26/2025 11:10	61506	EPET_T2	0	0	0	0	0	0	-0.68	-0.67	1	1	0	900	900	0
2/26/2025 11:10	54504	ENOL_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
2/26/2025 11:10	48902	FOSP_T2	1	1	0	0.2	0.3	0.1	0.6	0.7	0	0	0	0	0	0
2/26/2025 11:11	48901	FOSP_T2	0	1	1	0	0.1	0.1	0	-0.08	2	2	0	1200	1200	0
2/26/2025 11:11	48902	FOSP_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/26/2025 11:12	42902	MIDD_T2	3	4	1	0.37	0.35	-0.02	-0.21	-0.22	0	0	0	0	0	0
2/26/2025 11:15	65804	RTWN_T1	0	0	0	0	0	0	0.25	0.5	1	1	0	600	600	0
2/26/2025 11:16	47402	PENS_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
2/26/2025 11:16	47401	PENS_T1	1	3	2	0.3	0.63	0.33	0.79	0.94	0	0	0	0	0	0
2/26/2025 11:16	47403	PENS_T1	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
2/26/2025 11:17	67601	WARW_T2	0	0	0	0	0	0	-0.46	-0.54	0	0	0	0	0	0
2/26/2025 11:20	67604	WARW_T1	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
2/26/2025 11:20	61703	ELIZ_T1	8	42	34	0.36	0.18	-0.18	-5.38	-5.31	4	4	0	4200	4200	0
2/26/2025 11:20	67603	WARW_T1	4	1	-3	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
2/26/2025 11:20	60803	BUCK_T1	2	6	4	0.1	0.18	0.08	0	0	0	0	0	0	0	0
2/26/2025 11:20	60801	BUCK_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/26/2025 11:20	61701	ELIZ_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
2/26/2025 11:20	67605	WARW_T1	45	57	12	0.67	0.73	0.06	-1.1	-1.09	0	0	0	0	0	0
2/26/2025 11:21	60301	TWVA_T2	0	0	0	0	0	0	-1.68	-1.69	2	2	0	1800	1800	0
2/26/2025 11:21	42701	AUGU_T1	1	4	3	1.9	0.9	-1	0	0	2	2	0	1800	1800	0
2/26/2025 11:21	61703	ELIZ_T1	8	42	34	0.36	0.18	-0.18	-2.66	-2.28	2	2	0	2100	2100	0
2/26/2025 11:21	60803	BUCK_T1	2	6	4	0.1	0.18	0.08	0	0	0	0	0	0	0	0
2/26/2025 11:21	61701	ELIZ_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
2/26/2025 11:21	60801	BUCK_T1	1	1	0	0.1	0.4	0.3	0.22	0.22	0	0	0	0	0	0
2/26/2025 11:22	61701	ELIZ_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
2/26/2025 11:22	67603	WARW_T1	4	1	-3	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
2/26/2025 11:22	61703	ELIZ_T1	8	42	34	0.36	0.18	-0.18	-5.31	-4.56	4	2	-2	4200	1800	-2400
2/26/2025 11:22	67605	WARW_T1	45	57	12	0.67	0.73	0.06	-2.18	-2.27	0	0	0	0	0	0
2/26/2025 11:22	67604	WARW_T1	3	0	-3	0.37	0	-0.37	0	0	0	0	0	0	0	0
2/26/2025 11:23	60801	BUCK_T1	1	1	0	0.1	0.4	0.3	0.22	0.22	0	0	0	0	0	0
2/26/2025 11:23	67604	WARW_T1	3	0	-3	0.37	0	-0.37	0.24	0.75	0	0	0	0	0	0
2/26/2025 11:23	60803	BUCK_T1	2	6	4	0.1	0.18	0.08	0	0	0	0	0	0	0	0
2/26/2025 11:23	67603	WARW_T1	4	1	-3	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
2/26/2025 11:23	67605	WARW_T1	45	57	12	0.67	0.73	0.06	-1.09	-1.13	0	0	0	0	0	0
2/26/2025 11:25	61703	ELIZ_T1	8	42	34	0.36	0.18	-0.18	-2.66	-2.28	2	1	-1	2100	900	-1200
2/26/2025 11:25	61701	ELIZ_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
2/26/2025 11:26	62102	ELAN_T1	1	1	0	0.3	0.3	0	0.52	0.57	0	0	0	0	0	0
2/26/2025 11:26	62105	ELAN_T1	2	2	0	0.55	0.15	-0.4	0.34	0.36	0	0	0	0	0	0
2/26/2025 11:31	54602	SUMM_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 11:31	54601	SUMM_T2	9	13	4	0.7	0.72	0.02	0	0	0	0	0	0	0	0
2/26/2025 11:32	52004	LING_T2	3	6	3	4.43	2.82	-1.61	0.23	0.21	0	0	0	0	0	0
2/26/2025 11:32	23001	SAJO_T1	2	3	1	0.25	0.3	0.05	-0.32	-0.31	0	0	0	0	0	0
2/26/2025 11:32	52006	LING_T2	2	2	0	0.45	0.9	0.45	0	0	0	0	0	0	0	0
2/26/2025 11:32	15201	SFAR_T1	0	0	0	0	0	0	-0.02	-0.02	3	3	0	3600	3600	0
2/26/2025 11:32	23002	SAJO_T1	1	1	0	0.9	1.6	0.7	0	0	0	0	0	0	0	0
2/26/2025 11:32	52002	LING_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/26/2025 11:33	23001	SAJO_T1	2	3	1	0.25	0.3	0.05	-0.32	-0.31	0	0	0	0	0	0
2/26/2025 11:33	23002	SAJO_T1	1	1	0	0.9	1.6	0.7	0	0	0	0	0	0	0	0
2/26/2025 11:33	65601	QVIL_T2	1	7	6	0.2	0.4	0.2	-0.11	-0.2	0	0	0	0	0	0
2/26/2025 11:33	65602	QVIL_T2	41	45	4	0.38	0.75	0.37	0	0	0	0	0	0	0	0
2/26/2025 11:34	15203	SFAR_T2	4	5	1	0.63	0.46	-0.17	-1.36	-1.37	0	0	0	0	0	0
2/26/2025 11:34	15201	SFAR_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
2/26/2025 11:34	15204	SFAR_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
2/26/2025 11:36	61703	ELIZ_T1	42	9	-33	0.18	0.34	0.16	0	0	0	0	0	0	0	0
2/26/2025 11:36	41601	CLEV_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/26/2025 11:36	67201	TEHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/26/2025 11:36	15203	SFAR_T2	4	5	1	0.63	0.46	-0.17	-1.36	-1.37	0	0	0	0	0	0
2/26/2025 11:36	41602	CLEV_T1	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/26/2025 11:36	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 11:36	23901	EFMO_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
2/26/2025 11:36	61701	ELIZ_T1	1	2	1	6.1	3.65	-2.45	-0.06	0.02	0	0	0	0	0	0
2/26/2025 11:36	15204	SFAR_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
2/26/2025 11:36	67203	TEHI_T1	0	0	0	0	0	0	2.49	2.9	3	3	0	2100	2100	0
2/26/2025 11:37	41602	CLEV_T1	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/26/2025 11:37	61703	ELIZ_T1	42	9	-33	0.18	0.34	0.16	-2.28	-2.25	1	1	0	900	900	0
2/26/2025 11:37	40802	EXCH_T2	1	1	0	0.8	1.3	0.5	0.16	0.07	0	0	0	0	0	0
2/26/2025 11:37	63803	HEMP_T1	1	5	4	0.2	0.34	0.14	0.06	0.04	0	0	0	0	0	0
2/26/2025 11:37	61701	ELIZ_T1	1	2	1	6.1	3.65	-2.45	0	0	0	0	0	0	0	0
2/26/2025 11:37	63804	HEMP_T1	1	1	0	6.4	6	-0.4	0	0	0	0	0	0	0	0
2/26/2025 11:37	63801	HEMP_T1	1	5	4	0.1	0.46	0.36	0	0	0	0	0	0	0	0
2/26/2025 11:37	41601	CLEV_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/26/2025 11:37	40801	EXCH_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
2/26/2025 11:37	63802	HEMP_T1	0	2	2	0	0.2	0.2	0.14	0.14	0	0	0	0	0	0
2/26/2025 11:38	40801	EXCH_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
2/26/2025 11:38	40802	EXCH_T2	1	1	0	0.8	1.3	0.5	0.16	0.07	0	0	0	0	0	0
2/26/2025 11:38	23901	EFMO_T2	1	1	0	0.3	0.6	0.3	-0.32	-0.32	0	0	0	0	0	0
2/26/2025 11:38	43402	BENT_T1	3	6	3	0.9	0.68	-0.22	-0.95	-0.96	1	1	0	900	900	0
2/26/2025 11:38	11202	ELHE_T2	0	0	0	0	0	0	0.36	0.35	1	1	0	1200	1200	0
2/26/2025 11:39	63801	HEMP_T1	1	5	4	0.1	0.46	0.36	0	0	0	0	0	0	0	0
2/26/2025 11:39	63803	HEMP_T1	1	5	4	0.2	0.34	0.14	0.03	0.02	0	0	0	0	0	0
2/26/2025 11:39	63804	HEMP_T1	1	1	0	6.4	6	-0.4	0	0	0	0	0	0	0	0
2/26/2025 11:39	63802	HEMP_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/26/2025 11:41	63802	HEMP_T1	0	2	2	0	0.2	0.2	0.14	0.14	0	0	0	0	0	0
2/26/2025 11:41	63801	HEMP_T1	1	5	4	0.1	0.46	0.36	0	0	0	0	0	0	0	0
2/26/2025 11:41	63804	HEMP_T1	1	1	0	6.4	6	-0.4	0	0	0	0	0	0	0	0
2/26/2025 11:41	63803	HEMP_T1	1	5	4	0.2	0.34	0.14	0	0	0	0	0	0	0	0
2/26/2025 11:41	47201	FAXO_T2	0	0	0	0	0	0	-2.36	-2.37	1	1	0	1200	1200	0
2/26/2025 11:42	12202	FOGE_T2	3	6	3	0.7	0.62	-0.08	-0.66	-0.66	1	1	0	600	600	0
2/26/2025 11:42	65503	MOJO_T2	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
2/26/2025 11:42	43402	BENT_T1	3	6	3	0.9	0.68	-0.22	-0.95	-0.96	1	1	0	900	900	0
2/26/2025 11:43	63801	HEMP_T1	1	5	4	0.1	0.46	0.36	0	0	0	0	0	0	0	0
2/26/2025 11:43	63804	HEMP_T1	1	1	0	6.4	6	-0.4	0	0	0	0	0	0	0	0
2/26/2025 11:43	63803	HEMP_T1	1	5	4	0.2	0.34	0.14	0	0	0	0	0	0	0	0
2/26/2025 11:43	63802	HEMP_T1	0	2	2	0	0.2	0.2	0.14	0.14	0	0	0	0	0	0
2/26/2025 11:47	47202	FAXO_T2	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
2/26/2025 11:47	67901	WNHO_T2	0	2	2	0	0.4	0.4	0.41	0.56	1	1	0	900	900	0
2/26/2025 11:48	59101	WALK_T2	1	6	5	0.8	0.33	-0.47	1.89	1.37	1	1	0	600	600	0
2/26/2025 11:48	59102	WALK_T2	5	6	1	0.38	0.47	0.09	0	0	0	0	0	0	0	0
2/26/2025 11:49	59102	WALK_T2	5	6	1	0.38	0.47	0.09	0	0	0	0	0	0	0	0
2/26/2025 11:49	67201	TEHI_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/26/2025 11:49	59101	WALK_T2	1	6	5	0.8	0.33	-0.47	1.89	1.37	1	1	0	600	600	0
2/26/2025 11:49	67203	TEHI_T1	0	0	0	0	0	0	2.49	2.9	3	2	-1	2100	1500	-600
2/26/2025 11:52	41602	CLEV_T1	2	2	0	0.65	0.8	0.15	0	0	0	0	0	0	0	0
2/26/2025 11:52	67203	TEHI_T1	0	0	0	0	0	0	2.9	3.29	2	2	0	1500	1500	0
2/26/2025 11:52	60904	DONG_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/26/2025 11:52	67201	TEHI_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/26/2025 11:52	60902	DONG_T2	1	1	0	0.3	0.4	0.1	0.75	0.76	0	0	0	0	0	0
2/26/2025 11:52	60901	DONG_T2	5	7	2	0.48	0.44	-0.04	0	0	0	0	0	0	0	0
2/26/2025 11:52	41601	CLEV_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
2/26/2025 11:54	23901	EFMO_T2	1	1	0	0.6	0.8	0.2	-0.32	-0.31	0	0	0	0	0	0
2/26/2025 11:56	10103	ALLE_T3	1	1	0	4.2	0	-4.2	0	0	0	0	0	0	0	0
2/26/2025 11:56	10101	ALLE_T3	2	2	0	4.15	3.55	-0.6	0	0	0	0	0	0	0	0
2/26/2025 11:56	10205	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 11:56	41002	LAUR_T2	49	54	5	0.4	0.51	0.11	0	0	0	0	0	0	0	0
2/26/2025 11:56	41001	LAUR_T2	73	84	11	0.47	0.62	0.15	0	0	0	0	0	0	0	0
2/26/2025 11:57	64701	LITI_T1	0	0	0	0	0	0	0.37	0.21	0	0	0	0	0	0
2/26/2025 11:59	58401	MORO_T1	3	7	4	0.2	0.24	0.04	0	0	0	0	0	0	0	0
2/26/2025 11:59	67605	WARW_T1	48	60	12	0.76	0.69	-0.07	-1.07	-1.12	0	0	0	0	0	0
2/26/2025 11:59	58402	MORO_T1	0	0	0	0	0	0	-0.14	-0.18	2	2	0	1500	1500	0
2/26/2025 11:59	67604	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 11:59	67603	WARW_T1	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
2/26/2025 12:04	54602	SUMM_T2	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/26/2025 12:04	54601	SUMM_T2	13	10	-3	0.71	1.05	0.34	-1.83	-1.9	2	2	0	2100	2100	0
2/26/2025 12:05	52503	PROG_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
2/26/2025 12:05	20401	ASHF_T2	11	11	0	0.66	0.76	0.1	0	0	0	0	0	0	0	0
2/26/2025 12:05	20402	ASHF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/26/2025 12:05	54601	SUMM_T2	13	10	-3	0.71	1.05	0.34	-1.83	-1.9	2	2	0	2100	2100	0
2/26/2025 12:05	54602	SUMM_T2	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/26/2025 12:05	20403	ASHF_T2	28	33	5	0.46	0.49	0.03	0	0	0	0	0	0	0	0
2/26/2025 12:05	52502	PROG_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/26/2025 12:06	52502	PROG_T2	1	1	0	0.2	0.2	0	0.54	0.52	0	0	0	0	0	0
2/26/2025 12:06	52503	PROG_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
2/26/2025 12:07	48902	FOSP_T2	2	2	0	0.35	0.5	0.15	0.4	0.62	0	0	0	0	0	0
2/26/2025 12:07	41601	CLEV_T1	1	2	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
2/26/2025 12:07	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 12:07	25603	ARRO_T1	10	57	47	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
2/26/2025 12:07	25601	ARRO_T1	2	21	19	0.1	0.11	0.01	0.34	0.36	0	0	0	0	0	0
2/26/2025 12:07	25602	ARRO_T1	46	119	73	0.13	0.17	0.04	0	0	0	0	0	0	0	0
2/26/2025 12:07	41602	CLEV_T1	2	2	0	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
2/26/2025 12:07	20403	ASHF_T2	28	33	5	0.46	0.49	0.03	-0.04	-0.05	0	0	0	0	0	0
2/26/2025 12:07	20402	ASHF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/26/2025 12:07	20401	ASHF_T2	11	11	0	0.66	0.76	0.1	0	0	0	0	0	0	0	0
2/26/2025 12:07	48901	FOSP_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
2/26/2025 12:08	45801	HEGI_T1	0	0	0	0	0	0	-0.12	-0.16	1	1	0	900	900	0
2/26/2025 12:08	41601	CLEV_T1	1	2	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
2/26/2025 12:08	41001	LAUR_T2	72	86	14	0.37	0.61	0.24	0	0	0	0	0	0	0	0
2/26/2025 12:08	54601	SUMM_T2	13	10	-3	0.71	1.05	0.34	0	0	0	0	0	0	0	0
2/26/2025 12:08	41002	LAUR_T2	39	56	17	0.31	0.53	0.22	0	0	0	0	0	0	0	0
2/26/2025 12:08	54602	SUMM_T2	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/26/2025 12:08	41602	CLEV_T1	2	2	0	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
2/26/2025 12:09	45801	HEGI_T1	0	0	0	0	0	0	-0.12	-0.16	1	1	0	900	900	0
2/26/2025 12:09	41601	CLEV_T1	1	2	1	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
2/26/2025 12:09	54602	SUMM_T2	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/26/2025 12:09	20402	ASHF_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/26/2025 12:09	41602	CLEV_T1	2	2	0	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
2/26/2025 12:09	54601	SUMM_T2	13	10	-3	0.71	1.05	0.34	-1.9	-1.82	2	2	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/26/2025 12:09	64701	LITI_T1	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
2/26/2025 12:09	20401	ASHF_T2	11	11	0	0.66	0.76	0.1	0	0	0	0	0	0	0	0
2/26/2025 12:09	20403	ASHF_T2	28	33	5	0.46	0.49	0.03	-0.09	-0.1	0	0	0	0	0	0
2/26/2025 12:10	44201	POIN_T1	13	92	79	0.11	0.23	0.12	-1.65	-1.68	2	2	0	2100	2100	0
2/26/2025 12:10	23901	EFMO_T2	1	1	0	0.5	0.8	0.3	-0.31	-0.31	0	0	0	0	0	0
2/26/2025 12:10	44202	POIN_T2	1	1	0	0.3	0.5	0.2	-0.56	-0.54	1	1	0	1200	1200	0
2/26/2025 12:14	52502	PROG_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/26/2025 12:14	52503	PROG_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
2/26/2025 12:14	64701	LITI_T1	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
2/26/2025 12:14	64101	REFR_T1	14	14	0	0.49	0.44	-0.05	-0.6	-0.6	0	0	0	0	0	0
2/26/2025 12:14	44201	POIN_T1	13	92	79	0.11	0.23	0.12	-1.65	-1.68	2	2	0	2100	2100	0
2/26/2025 12:15	58401	MORO_T1	1	7	6	0.1	0.33	0.23	-1.17	-1.16	1	1	0	600	600	0
2/26/2025 12:15	57201	ROSS_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
2/26/2025 12:15	52502	PROG_T2	1	2	1	0.2	0.2	0	0.52	0.54	0	0	0	0	0	0
2/26/2025 12:15	57205	ROSS_T1	4	4	0	0.75	1.03	0.28	0	0	0	0	0	0	0	0
2/26/2025 12:15	52503	PROG_T2	2	2	0	0.15	0.5	0.35	0	0	0	0	0	0	0	0
2/26/2025 12:15	64101	REFR_T1	14	12	-2	0.42	0.34	-0.08	-0.75	-0.75	0	0	0	0	0	0
2/26/2025 12:15	57203	ROSS_T1	0	1	1	0	0.1	0.1	-0.74	-0.77	0	0	0	0	0	0
2/26/2025 12:17	66505	SMAN_T2	3	2	-1	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
2/26/2025 12:17	66504	SMAN_T2	4	4	0	0.8	0.53	-0.27	0	0	0	0	0	0	0	0
2/26/2025 12:17	66503	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/26/2025 12:17	66501	SMAN_T2	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
2/26/2025 12:17	58401	MORO_T1	1	7	6	0.1	0.33	0.23	-1.17	-1.16	1	1	0	600	600	0
2/26/2025 12:17	66502	SMAN_T2	17	5	-12	0.28	0.3	0.02	0.34	0.31	0	0	0	0	0	0
2/26/2025 12:18	66502	SMAN_T2	17	5	-12	0.28	0.3	0.02	0	0	0	0	0	0	0	0
2/26/2025 12:18	66504	SMAN_T2	4	4	0	0.8	0.53	-0.27	0	0	0	0	0	0	0	0
2/26/2025 12:18	66501	SMAN_T2	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
2/26/2025 12:18	66505	SMAN_T2	3	2	-1	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
2/26/2025 12:18	64101	REFR_T1	14	12	-2	0.42	0.34	-0.08	-0.15	-0.15	0	0	0	0	0	0
2/26/2025 12:18	66503	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/26/2025 12:19	66502	SMAN_T2	17	5	-12	0.28	0.3	0.02	0	0	0	0	0	0	0	0
2/26/2025 12:19	42504	ALTA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/26/2025 12:19	66505	SMAN_T2	3	2	-1	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
2/26/2025 12:19	66503	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/26/2025 12:19	42503	ALTA_T2	0	0	0	0	0	0	0.05	-0.2	0	0	0	0	0	0
2/26/2025 12:19	66501	SMAN_T2	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
2/26/2025 12:19	66504	SMAN_T2	4	4	0	0.8	0.53	-0.27	-1.09	-1.13	0	0	0	0	0	0
2/26/2025 12:20	60701	BREC_T1	2	4	2	0.1	0.2	0.1	-0.03	-0.04	1	1	0	600	600	0
2/26/2025 12:20	66503	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/26/2025 12:20	10602	BLGL_T2	9	8	-1	0.52	0.73	0.21	0.08	0.09	0	0	0	0	0	0
2/26/2025 12:20	66502	SMAN_T2	17	5	-12	0.28	0.3	0.02	0	0	0	0	0	0	0	0
2/26/2025 12:20	42501	ALTA_T2	0	0	0	0	0	0	0.68	0.66	0	0	0	0	0	0
2/26/2025 12:20	59101	WALK_T2	6	1	-5	0.33	0.6	0.27	0	0	0	0	0	0	0	0
2/26/2025 12:20	66504	SMAN_T2	4	4	0	0.8	0.53	-0.27	-1.09	-1.13	0	0	0	0	0	0
2/26/2025 12:20	42504	ALTA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/26/2025 12:20	66501	SMAN_T2	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
2/26/2025 12:20	66505	SMAN_T2	3	2	-1	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
2/26/2025 12:20	14802	TREI_T2	11	15	4	0.31	0.33	0.02	1.28	1.16	0	0	0	0	0	0
2/26/2025 12:20	14801	TREI_T2	57	58	1	0.2	0.22	0.02	0	0	0	0	0	0	0	0
2/26/2025 12:20	59102	WALK_T2	6	4	-2	0.47	0.48	0.01	0.35	0.31	0	0	0	0	0	0
2/26/2025 12:21	57203	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 12:21	57201	ROSS_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
2/26/2025 12:21	57205	ROSS_T1	4	4	0	0.75	1.03	0.28	0	0	0	0	0	0	0	0
2/26/2025 12:22	14801	TREI_T2	57	58	1	0.2	0.22	0.02	0	0	0	0	0	0	0	0
2/26/2025 12:22	60701	BREC_T1	2	4	2	0.1	0.2	0.1	-0.04	-0.05	1	1	0	600	600	0
2/26/2025 12:22	14802	TREI_T2	11	15	4	0.31	0.33	0.02	0.29	0.35	0	0	0	0	0	0
2/26/2025 12:23	41801	GOCI_T2	190	285	95	0.34	0.54	0.2	0	0	0	0	0	0	0	0
2/26/2025 12:23	42501	ALTA_T2	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
2/26/2025 12:23	60701	BREC_T1	2	4	2	0.1	0.2	0.1	-0.12	-0.14	3	3	0	1800	1800	0
2/26/2025 12:23	42504	ALTA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/26/2025 12:24	54504	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
2/26/2025 12:24	60701	BREC_T1	2	4	2	0.1	0.2	0.1	-0.04	-0.05	1	1	0	600	600	0
2/26/2025 12:24	54501	ENOL_T2	4	7	3	0.58	0.7	0.12	-2.54	-2.54	2	2	0	1200	1200	0
2/26/2025 12:24	46203	DANV_T2	50	113	63	0.47	0.41	-0.06	0.43	0.4	0	0	0	0	0	0
2/26/2025 12:24	54502	ENOL_T2	3	6	3	0.37	0.38	0.01	0	0	0	0	0	0	0	0
2/26/2025 12:24	54503	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 12:24	45801	HEGI_T1	0	0	0	0	0	0	-0.16	-0.07	1	1	0	900	900	0
2/26/2025 12:24	42504	ALTA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/26/2025 12:24	42501	ALTA_T2	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
2/26/2025 12:24	54505	ENOL_T2	1	2	1	1.4	1.25	-0.15	-0.66	-0.66	1	1	0	600	600	0
2/26/2025 12:24	41801	GOCI_T2	190	285	95	0.34	0.54	0.2	0	0	0	0	0	0	0	0
2/26/2025 12:25	54505	ENOL_T2	1	2	1	1.4	1.25	-0.15	-0.66	-0.66	1	1	0	600	600	0
2/26/2025 12:25	23901	EFMO_T2	1	1	0	0.8	0.7	-0.1	-0.31	-0.29	0	0	0	0	0	0
2/26/2025 12:25	46203	DANV_T2	50	113	63	0.47	0.41	-0.06	0.14	0.13	0	0	0	0	0	0
2/26/2025 12:25	54503	ENOL_T2	0	1	1	0	0.1	0.1	-0.47	-0.45	1	1	0	600	600	0
2/26/2025 12:25	54502	ENOL_T2	3	6	3	0.37	0.38	0.01	0	0	0	0	0	0	0	0
2/26/2025 12:25	54504	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
2/26/2025 12:25	54501	ENOL_T2	4	7	3	0.58	0.7	0.12	0	0	0	0	0	0	0	0
2/26/2025 12:26	52401	GRPA_T2	1	1	0	1	0.2	-0.8	-0.79	-0.81	0	0	0	0	0	0
2/26/2025 12:26	54504	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
2/26/2025 12:26	63404	HONY_T1	134	158	24	0.53	0.58	0.05	0	0	0	0	0	0	0	0
2/26/2025 12:26	54503	ENOL_T2	0	1	1	0	0.1	0.1	-0.47	-0.45	1	1	0	600	600	0
2/26/2025 12:26	54505	ENOL_T2	1	2	1	1.4	1.25	-0.15	0	0	0	0	0	0	0	0
2/26/2025 12:26	52402	GRPA_T2	18	18	0	0.84	0.73	-0.11	0	0	0	0	0	0	0	0
2/26/2025 12:26	63401	HONY_T1	4	23	19	0.3	0.26	-0.04	0.55	0.62	0	0	0	0	0	0
2/26/2025 12:26	54501	ENOL_T2	4	7	3	0.58	0.7	0.12	0	0	0	0	0	0	0	0
2/26/2025 12:26	54502	ENOL_T2	3	6	3	0.37	0.38	0.01	0	0	0	0	0	0	0	0
2/26/2025 12:26	52403	GRPA_T2	6	8	2	0.83	0.74	-0.09	-0.64	-0.6	0	0	0	0	0	0
2/26/2025 12:26	41801	GOCI_T2	190	285	95	0.34	0.54	0.2	0	0	0	0	0	0	0	0
2/26/2025 12:27	63401	HONY_T1	4	23	19	0.3	0.26	-0.04	1.1	1.23	0	0	0	0	0	0
2/26/2025 12:27	63404	HONY_T1	134	158	24	0.53	0.58	0.05	0	0	0	0	0	0	0	0
2/26/2025 12:29	41202	KENM_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/26/2025 12:29	43201	MVIL_T2	1	1	0	0.3	0.7	0.4	-0.37	-0.37	0	0	0	0	0	0
2/26/2025 12:29	43202	MVIL_T2	56	65	9	0.35	0.54	0.19	0	0	0	0	0	0	0	0
2/26/2025 12:29	41204	KENM_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/26/2025 12:29	63802	HEMP_T1	3	3	0	0.2	0.27	0.07	0	0	0	0	0	0	0	0
2/26/2025 12:29	63804	HEMP_T1	1	3	2	6	3	-3	0	0	0	0	0	0	0	0
2/26/2025 12:29	41205	KENM_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
2/26/2025 12:29	63803	HEMP_T1	3	4	1	0.37	0.38	0.01	0.06	0.09	0	0	0	0	0	0
2/26/2025 12:29	63801	HEMP_T1	6	7	1	0.33	0.4	0.07	0	0	0	0	0	0	0	0
2/26/2025 12:30	55003	NEWP_T2	7	5	-2	0.34	0.24	-0.1	-0.79	-0.79	1	1	0	600	600	0
2/26/2025 12:30	43202	MVIL_T2	63	66	3	0.52	0.61	0.09	-0.64	-0.64	0	0	0	0	0	0
2/26/2025 12:30	52502	PROG_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/26/2025 12:30	43201	MVIL_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
2/26/2025 12:30	58401	MORO_T1	6	5	-1	0.27	0.36	0.09	-1.16	-1.16	1	1	0	600	600	0
2/26/2025 12:30	55001	NEWP_T1	6	9	3	0.58	0.46	-0.12	-0.41	-0.39	0	0	0	0	0	0
2/26/2025 12:30	52503	PROG_T2	2	1	-1	0.45	0.6	0.15	0.3	0.43	0	0	0	0	0	0
2/26/2025 12:30	55002	NEWP_T1	18	13	-5	0.76	1.02	0.26	0	0	0	0	0	0	0	0
2/26/2025 12:30	58402	MORO_T1	0	0	0	0	0	0	-0.23	-0.2	2	2	0	1500	1500	0
2/26/2025 12:31	52401	GRPA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/26/2025 12:31	55002	NEWP_T1	18	13	-5	0.76	1.02	0.26	0	0	0	0	0	0	0	0
2/26/2025 12:31	52503	PROG_T2	2	1	-1	0.45	0.6	0.15	0.3	0.43	0	0	0	0	0	0
2/26/2025 12:31	43201	MVIL_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
2/26/2025 12:31	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 12:31	43202	MVIL_T2	63	66	3	0.52	0.61	0.09	-0.64	-0.64	0	0	0	0	0	0
2/26/2025 12:31	55001	NEWP_T1	6	9	3	0.58	0.46	-0.12	-0.41	-0.39	0	0	0	0	0	0
2/26/2025 12:31	52403	GRPA_T2	8	14	6	0.63	0.54	-0.09	-0.64	-0.6	0	0	0	0	0	0
2/26/2025 12:31	52402	GRPA_T2	17	16	-1	0.71	0.62	-0.09	0	0	0	0	0	0	0	0
2/26/2025 12:31	52502	PROG_T2	1	2	1	0.2	0.2	0	0.27	0.27	0	0	0	0	0	0
2/26/2025 12:32	13302	ORVI_T2	4	5	1	0.85	0.72	-0.13	1.06	1.03	0	0	0	0	0	0
2/26/2025 12:34	55002	NEWP_T1	18	13	-5	0.76	1.02	0.26	-0.23	-0.24	0	0	0	0	0	0
2/26/2025 12:34	58401	MORO_T1	6	5	-1	0.27	0.36	0.09	-1.16	-1.16	1	1	0	600	600	0
2/26/2025 12:34	66501	SMAN_T2	2	2	0	0.25	0.6	0.35	0	0	0	0	0	0	0	0
2/26/2025 12:34	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 12:34	55001	NEWP_T1	6	9	3	0.58	0.46	-0.12	0	0	0	0	0	0	0	0
2/26/2025 12:34	66502	SMAN_T2	2	6	4	0.1	0.32	0.22	0	0	0	0	0	0	0	0
2/26/2025 12:34	66504	SMAN_T2	3	3	0	0.5	0.43	-0.07	-0.57	-0.57	0	0	0	0	0	0
2/26/2025 12:35	52502	PROG_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/26/2025 12:35	27503	WEIS_T2	2	3	1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
2/26/2025 12:35	65502	MOID_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 12:35	58401	MORO_T1	6	5	-1	0.27	0.36	0.09	0	0	0	0	0	0	0	0
2/26/2025 12:35	27502	WEIS_T2	2	2	0	0.1	0.4	0.3	-0.54	-0.5	0	0	0	0	0	0
2/26/2025 12:35	52503	PROG_T2	2	1	-1	0.45	0.6	0.15	0.3	0.43	0	0	0	0	0	0
2/26/2025 12:36	27502	WEIS_T2	2	2	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/26/2025 12:36	14801	TREI_T2	57	8	-49	0.22	0.24	0.02	0.29	0.28	0	0	0	0	0	0
2/26/2025 12:36	13905	SEID_T1	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
2/26/2025 12:36	14802	TREI_T2	15	3	-12	0.33	0.27	-0.06	0.29	0.35	0	0	0	0	0	0
2/26/2025 12:36	13902	SEID_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
2/26/2025 12:36	27503	WEIS_T2	2	3	1	0.35	0.37	0.02	0	0	0	0	0	0	0	0
2/26/2025 12:36	11203	ELHE_T1	0	0	0	0	0	0	0.84	0.83	0	0	0	0	0	0
2/26/2025 12:39	54502	ENOL_T2	6	4	-2	0.37	0.4	0.03	0	0	0	0	0	0	0	0
2/26/2025 12:39	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	-0.45	-0.46	1	1	0	600	600	0
2/26/2025 12:39	54504	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/26/2025 12:39	54501	ENOL_T2	4	7	3	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/26/2025 12:39	54505	ENOL_T2	2	2	0	1.25	0.7	-0.55	0	0	0	0	0	0	0	0
2/26/2025 12:40	45802	HEGI_T2	40	45	5	0.67	0.8	0.13	0	0	0	0	0	0	0	0
2/26/2025 12:40	54504	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/26/2025 12:40	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/26/2025 12:40	54502	ENOL_T2	6	4	-2	0.37	0.4	0.03	0	0	0	0	0	0	0	0
2/26/2025 12:40	54501	ENOL_T2	4	7	3	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/26/2025 12:40	54505	ENOL_T2	2	2	0	1.25	0.7	-0.55	-0.66	-0.66	1	1	0	600	600	0
2/26/2025 12:41	62103	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/26/2025 12:41	62101	ELAN_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
2/26/2025 12:41	62105	ELAN_T1	64	31	-33	0.14	0.22	0.08	0.7	0.68	0	0	0	0	0	0
2/26/2025 12:41	62102	ELAN_T1	3	5	2	0.47	0.48	0.01	0	0	0	0	0	0	0	0
2/26/2025 12:41	62106	ELAN_T1	3	4	1	0.23	0.33	0.1	0	0	0	0	0	0	0	0
2/26/2025 12:42	62101	ELAN_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
2/26/2025 12:42	62105	ELAN_T1	64	31	-33	0.14	0.22	0.08	0	0	0	0	0	0	0	0
2/26/2025 12:42	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/26/2025 12:42	54701	NEBL_T1	8	8	0	0.59	0.56	-0.03	0	0	1	1	0	600	600	0
2/26/2025 12:42	54504	ENOL_T2	1	1	0	0.8	0.7	-0.1	-2.3	-2.26	2	2	0	1200	1200	0
2/26/2025 12:42	54505	ENOL_T2	2	2	0	1.25	0.7	-0.55	0	0	0	0	0	0	0	0
2/26/2025 12:42	62103	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/26/2025 12:42	54501	ENOL_T2	4	7	3	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/26/2025 12:42	62106	ELAN_T1	3	4	1	0.23	0.33	0.1	0.97	0.97	0	0	0	0	0	0
2/26/2025 12:42	62102	ELAN_T1	3	5	2	0.47	0.48	0.01	0	0	0	0	0	0	0	0
2/26/2025 12:42	54502	ENOL_T2	6	4	-2	0.37	0.4	0.03	0	0	0	0	0	0	0	0
2/26/2025 12:43	62103	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/26/2025 12:43	62105	ELAN_T1	64	31	-33	0.14	0.22	0.08	0.35	0.34	0	0	0	0	0	0
2/26/2025 12:43	62106	ELAN_T1	3	4	1	0.23	0.33	0.1	0	0	0	0	0	0	0	0
2/26/2025 12:43	62101	ELAN_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
2/26/2025 12:43	62102	ELAN_T1	3	5	2	0.47	0.48	0.01	0	0	0	0	0	0	0	0
2/26/2025 12:44	62101	ELAN_T1	1	2	1	0.2	0.35	0.15	3.17	3.05	0	0	0	0	0	0
2/26/2025 12:44	62106	ELAN_T1	3	4	1	0.23	0.33	0.1	0	0	0	0	0	0	0	0
2/26/2025 12:44	62103	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/26/2025 12:44	62105	ELAN_T1	64	31	-33	0.14	0.22	0.08	0	0	0	0	0	0	0	0
2/26/2025 12:44	64101	REFR_T1	12	7	-5	0.34	0.27	-0.07	-0.18	-0.15	0	0	0	0	0	0
2/26/2025 12:44	62102	ELAN_T1	3	5	2	0.47	0.48	0.01	0	0	0	0	0	0	0	0
2/26/2025 12:45	62106	ELAN_T1	1	4	3	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
2/26/2025 12:45	64204	KINZ_T1	55	65	10	0.46	0.54	0.08	0	0	0	0	0	0	0	0
2/26/2025 12:45	64201	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/26/2025 12:45	62101	ELAN_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
2/26/2025 12:45	64202	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/26/2025 12:45	62102	ELAN_T1	1	5	4	0.9	0.48	-0.42	0	0	0	0	0	0	0	0
2/26/2025 12:45	62105	ELAN_T1	21	26	5	0.22	0.23	0.01	0	0	0	0	0	0	0	0
2/26/2025 12:45	64203	KINZ_T1	0	0	0	0	0	0	1.26	1.26	1	1	0	600	600	0
2/26/2025 12:45	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/26/2025 12:46	64101	REFR_T1	1	7	6	0.2	0.31	0.11	-0.36	-0.3	0	0	0	0	0	0
2/26/2025 12:47	64202	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/26/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	1.26	1.26	1	1	0	600	600	0
2/26/2025 12:47	52004	LING_T2	8	7	-1	2.29	2.4	0.11	0.21	0.25	0	0	0	0	0	0
2/26/2025 12:47	64204	KINZ_T1	55	65	10	0.46	0.54	0.08	0	0	0	0	0	0	0	0
2/26/2025 12:47	64201	KINZ_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/26/2025 12:47	52002	LING_T2	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
2/26/2025 12:47	52006	LING_T2	5	3	-2	0.62	0.87	0.25	0	0	0	0	0	0	0	0
2/26/2025 12:49	60201	ATGL_T2	0	1	1	0	0.4	0.4	0.22	0.12	0	0	0	0	0	0
2/26/2025 12:50	60201	ATGL_T2	0	1	1	0	0.4	0.4	0.22	0.12	0	0	0	0	0	0
2/26/2025 12:50	46203	DANV_T2	67	56	-11	0.43	0.48	0.05	0	0	0	0	0	0	0	0
2/26/2025 12:50	46205	DANV_T2	0	0	0	0	0	0	-0.79	-0.81	1	1	0	1200	1200	0
2/26/2025 12:51	40505	CRES_T1	1	0	-1	0.1	0	-0.1	0.78	0.78	0	0	0	0	0	0
2/26/2025 12:51	40501	CRES_T2	8	5	-3	0.34	0.4	0.06	0	0	0	0	0	0	0	0
2/26/2025 12:52	41202	KENM_T2	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
2/26/2025 12:52	45501	DERR_T2	2	3	1	0.5	0.47	-0.03	0.35	0.41	2	2	0	1800	1800	0
2/26/2025 12:52	60201	ATGL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/26/2025 12:52	40505	CRES_T1	1	0	-1	0.1	0	-0.1	0.39	0.39	0	0	0	0	0	0
2/26/2025 12:52	41204	KENM_T2	1	1	0	0.5	0.6	0.1	-0.06	-0.08	0	0	0	0	0	0
2/26/2025 12:53	67503	WEWI_T2	6	2	-4	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/26/2025 12:53	67502	WEWI_T2	38	53	15	0.36	0.25	-0.11	0	0	0	0	0	0	0	0
2/26/2025 12:55	52402	GRPA_T2	15	13	-2	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
2/26/2025 12:55	40505	CRES_T1	1	0	-1	0.1	0	-0.1	0.78	0.78	0	0	0	0	0	0
2/26/2025 12:55	40101	HUNT_T2	1	2	1	0.2	0.3	0.1	-1.24	-1.19	0	0	0	0	0	0
2/26/2025 12:55	52403	GRPA_T2	6	14	8	0.67	0.54	-0.13	-0.61	-0.53	0	0	0	0	0	0
2/26/2025 12:55	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/26/2025 12:55	40501	CRES_T2	8	5	-3	0.34	0.4	0.06	0	0	0	0	0	0	0	0
2/26/2025 12:56	62105	ELAN_T1	21	26	5	0.22	0.23	0.01	0	0	0	0	0	0	0	0
2/26/2025 12:56	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/26/2025 12:56	11301	EMMA_T1	0	3	3	0	0.27	0.27	-0.89	-0.88	0	0	0	0	0	0
2/26/2025 12:56	11302	EMMA_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
2/26/2025 12:56	62106	ELAN_T1	1	4	3	0.5	0.35	-0.15	0.97	0.96	0	0	0	0	0	0
2/26/2025 12:56	52402	GRPA_T2	15	13	-2	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
2/26/2025 12:56	62102	ELAN_T1	1	5	4	0.9	0.48	-0.42	0	0	0	0	0	0	0	0
2/26/2025 12:56	62101	ELAN_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
2/26/2025 12:56	11303	EMMA_T1	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
2/26/2025 12:56	52403	GRPA_T2	6	14	8	0.67	0.54	-0.13	0	0	0	0	0	0	0	0
2/26/2025 12:56	40101	HUNT_T2	1	2	1	0.2	0.3	0.1	-1.24	-1.19	0	0	0	0	0	0
2/26/2025 12:56	40505	CRES_T1	1	0	-1	0.1	0	-0.1	1.17	1.17	0	0	0	0	0	0
2/26/2025 12:56	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/26/2025 12:57	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/26/2025 12:57	52403	GRPA_T2	6	14	8	0.67	0.54	-0.13	0	0	0	0	0	0	0	0
2/26/2025 12:57	52402	GRPA_T2	15	13	-2	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
2/26/2025 12:57	40101	HUNT_T2	1	2	1	0.2	0.3	0.1	-1.24	-1.19	0	0	0	0	0	0
2/26/2025 12:57	40505	CRES_T1	1	0	-1	0.1	0	-0.1	0.78	0.78	0	0	0	0	0	0
2/26/2025 12:58	63404	HONY_T1	110	82	-28	0.35	0.27	-0.08	0	0	0	0	0	0	0	0
2/26/2025 12:58	63401	HONY_T1	11	14	3	0.21	0.22	0.01	0	0	0	0	0	0	0	0
2/26/2025 13:00	58401	MORO_T1	3	5	2	0.17	0.26	0.09	0	0	0	0	0	0	0	0
2/26/2025 13:00	42902	MIDD_T2	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
2/26/2025 13:00	42903	MIDD_T2	0	2	2	0	0.2	0.2	1.46	0.3	0	1	1	0	1200	1200
2/26/2025 13:01	25404	LAHA_T2	607	344	-263	0.56	0.23	-0.33	0	0	0	0	0	0	0	0
2/26/2025 13:01	55002	NEWP_T1	9	9	0	0.94	0.93	-0.01	-0.26	-0.27	0	0	0	0	0	0
2/26/2025 13:01	55001	NEWP_T1	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
2/26/2025 13:01	25402	LAHA_T2	180	140	-40	0.46	0.25	-0.21	-0.39	-0.34	0	0	0	0	0	0
2/26/2025 13:02	52502	PROG_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/26/2025 13:02	25404	LAHA_T2	607	344	-263	0.56	0.23	-0.33	0	0	0	0	0	0	0	0
2/26/2025 13:02	25402	LAHA_T2	180	140	-40	0.46	0.25	-0.21	-0.39	-0.34	0	0	0	0	0	0
2/26/2025 13:02	52503	PROG_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/26/2025 13:03	57403	SPAN_T1	10	3	-7	0.28	0.37	0.09	0	0	0	0	0	0	0	0
2/26/2025 13:03	57203	ROSS_T1	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
2/26/2025 13:03	57201	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/26/2025 13:03	57401	SPAN_T1	2	2	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
2/26/2025 13:03	60201	ATGL_T2	1	1	0	0.2	0.4	0.2	0.12	0.11	0	0	0	0	0	0
2/26/2025 13:03	57402	SPAN_T2	2	0	-2	0.1	0	-0.1	-0.58	-0.6	0	0	0	0	0	0
2/26/2025 13:03	57205	ROSS_T1	3	1	-2	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
2/26/2025 13:04	11203	ELHE_T1	0	0	0	0	0	0	0.82	0.76	0	0	0	0	0	0
2/26/2025 13:06	57401	SPAN_T1	2	2	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
2/26/2025 13:06	57403	SPAN_T1	10	3	-7	0.28	0.37	0.09	-0.05	-0.06	0	0	0	0	0	0
2/26/2025 13:06	14802	TREI_T2	2	5	3	0.35	0.28	-0.07	0.27	0.29	0	0	0	0	0	0
2/26/2025 13:06	63501	HEID_TBK1-2	3	2	-1	0.43	1	0.57	0.03	0.04	1	1	0	900	900	0
2/26/2025 13:06	14801	TREI_T2	6	8	2	0.27	0.48	0.21	0	0	0	0	0	0	0	0
2/26/2025 13:07	57401	SPAN_T1	2	2	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
2/26/2025 13:07	57403	SPAN_T1	10	3	-7	0.28	0.37	0.09	-0.06	-0.08	0	0	0	0	0	0
2/26/2025 13:10	44505	HAMI_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
2/26/2025 13:10	44502	HAMI_T2	1	1	0	3.3	3.6	0.3	0	0	0	0	0	0	0	0
2/26/2025 13:12	44502	HAMI_T2	1	1	0	3.3	3.6	0.3	0	0	0	0	0	0	0	0
2/26/2025 13:12	45702	LIND_T2	5	2	-3	0.72	0.9	0.18	0	0	0	0	0	0	0	0
2/26/2025 13:12	16902	MECK_T1	367	193	-174	0.47	0.33	-0.14	0.18	0.15	0	0	0	0	0	0
2/26/2025 13:12	13901	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/26/2025 13:12	44505	HAMI_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
2/26/2025 13:12	13902	SEID_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/26/2025 13:12	16901	MECK_T1	262	107	-155	0.47	0.35	-0.12	0	0	0	0	0	0	0	0
2/26/2025 13:12	45701	LIND_T2	1	0	-1	0.4	0	-0.4	-0.32	-0.32	0	0	0	0	0	0
2/26/2025 13:13	45702	LIND_T2	5	2	-3	0.72	0.9	0.18	-0.43	-0.49	0	0	0	0	0	0
2/26/2025 13:13	45701	LIND_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/26/2025 13:13	16901	MECK_T1	262	107	-155	0.47	0.35	-0.12	0	0	0	0	0	0	0	0
2/26/2025 13:13	16902	MECK_T1	367	193	-174	0.47	0.33	-0.14	0.18	0.15	0	0	0	0	0	0
2/26/2025 13:14	11103	EGYP_T1	0	6	6	0	0.3	0.3	0.3	0.35	0	0	0	0	0	0
2/26/2025 13:14	17802	GILB_T1	4	8	4	1	0.65	-0.35	0.08	0.07	0	0	0	0	0	0
2/26/2025 13:14	11101	EGYP_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
2/26/2025 13:17	65503	MOJO_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/26/2025 13:17	16901	MECK_T1	89	125	36	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
2/26/2025 13:17	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 13:17	16902	MECK_T1	138	229	91	0.29	0.37	0.08	0.09	0.08	0	0	0	0	0	0
2/26/2025 13:18	57401	SPAN_T1	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
2/26/2025 13:18	57403	SPAN_T1	3	1	-2	0.3	0.4	0.1	-0.06	-0.08	0	0	0	0	0	0
2/26/2025 13:19	21705	SUBU_T1	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
2/26/2025 13:19	21701	SUBU_T1	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
2/26/2025 13:19	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 13:21	41602	CLEV_T1	2	3	1	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
2/26/2025 13:21	67605	WARW_T1	43	34	-9	0.61	0.63	0.02	0	0	0	0	0	0	0	0
2/26/2025 13:21	41601	CLEV_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
2/26/2025 13:21	67603	WARW_T1	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
2/26/2025 13:22	57403	SPAN_T1	3	1	-2	0.3	0.4	0.1	-0.08	-0.09	0	0	0	0	0	0
2/26/2025 13:22	57401	SPAN_T1	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
2/26/2025 13:22	21703	SUBU_T1	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
2/26/2025 13:22	21701	SUBU_T1	1	1	0	5.6	5.9	0.3	0	0	0	0	0	0	0	0
2/26/2025 13:22	67603	WARW_T1	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
2/26/2025 13:22	21705	SUBU_T1	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
2/26/2025 13:22	67605	WARW_T1	43	34	-9	0.61	0.63	0.02	-1.18	-1.19	0	0	0	0	0	0
2/26/2025 13:23	57205	ROSS_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
2/26/2025 13:23	57203	ROSS_T1	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
2/26/2025 13:24	17802	GILB_T1	7	5	-2	0.59	0.64	0.05	0.07	0.08	0	0	0	0	0	0
2/26/2025 13:27	63802	HEMP_T1	3	1	-2	0.2	0.2	0	0.15	0.13	0	0	0	0	0	0
2/26/2025 13:27	63801	HEMP_T1	6	8	2	0.48	0.35	-0.13	0	0	0	0	0	0	0	0
2/26/2025 13:27	23201	HIRU_T2	4	5	1	0.23	0.3	0.07	0	0	0	0	0	0	0	0
2/26/2025 13:27	63803	HEMP_T1	4	5	1	0.33	0.34	0.01	0	0	0	0	0	0	0	0
2/26/2025 13:27	23202	HIRU_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 13:27	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	0.94	0.9	0	0	0	0	0	0
2/26/2025 13:28	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	0.94	0.9	0	0	0	0	0	0
2/26/2025 13:28	29503	LEDG_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/26/2025 13:28	63802	HEMP_T1	3	1	-2	0.2	0.2	0	0	0	0	0	0	0	0	0
2/26/2025 13:28	63801	HEMP_T1	6	8	2	0.48	0.35	-0.13	0	0	0	0	0	0	0	0
2/26/2025 13:28	63803	HEMP_T1	4	5	1	0.33	0.34	0.01	0	0	0	0	0	0	0	0
2/26/2025 13:28	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 13:29	46102	MACI_T1	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
2/26/2025 13:33	55001	NEWP_T1	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
2/26/2025 13:33	55002	NEWP_T1	7	11	4	1.07	0.8	-0.27	-0.27	-0.27	0	0	0	0	0	0
2/26/2025 13:34	41602	CLEV_T1	3	0	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/26/2025 13:35	55001	NEWP_T1	2	2	0	0.1	0.25	0.15	-0.86	-0.81	0	0	0	0	0	0
2/26/2025 13:35	55002	NEWP_T1	7	11	4	1.07	0.8	-0.27	0	0	0	0	0	0	0	0
2/26/2025 13:43	23201	HIRU_T2	5	2	-3	0.3	0.3	0	0	0	0	0	0	0	0	0
2/26/2025 13:43	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
2/26/2025 13:44	45701	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 13:44	45702	LIND_T2	1	65	64	1.3	0.24	-1.06	0	0	0	0	0	0	0	0
2/26/2025 13:44	43202	MVIL_T2	61	60	-1	0.53	0.42	-0.11	-0.66	-0.65	0	0	0	0	0	0
2/26/2025 13:47	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 13:48	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 13:49	43202	MVIL_T2	58	62	4	0.4	0.57	0.17	-0.66	-0.65	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/26/2025 13:50	58402	MORO_T1	0	0	0	0	0	0	-0.38	-0.4	4	4	0	3000	3000	0
2/26/2025 13:50	58401	MORO_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
2/26/2025 13:51	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 13:52	14802	TREI_T2	6	6	0	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
2/26/2025 13:52	61502	EPET_T1	3	1	-2	0.43	0.5	0.07	-1.23	-1.17	0	0	0	0	0	0
2/26/2025 13:52	61505	EPET_T1	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/26/2025 13:52	14801	TREI_T2	6	7	1	0.43	0.47	0.04	0.25	0.27	0	0	0	0	0	0
2/26/2025 13:53	61502	EPET_T1	3	1	-2	0.43	0.5	0.07	0	0	0	0	0	0	0	0
2/26/2025 13:53	61505	EPET_T1	1	0	-1	0.6	0	-0.6	0.06	0.05	0	0	0	0	0	0
2/26/2025 13:56	52401	GRPA_T2	0	1	1	0	0.1	0.1	-0.79	-0.86	0	0	0	0	0	0
2/26/2025 13:56	52402	GRPA_T2	8	14	6	0.85	0.88	0.03	0	0	0	0	0	0	0	0
2/26/2025 13:56	52403	GRPA_T2	17	12	-5	0.71	0.65	-0.06	0	0	0	0	0	0	0	0
2/26/2025 13:58	64101	REFR_T1	7	8	1	0.37	0.54	0.17	-0.17	-0.16	0	0	0	0	0	0
2/26/2025 13:59	17802	GILB_T1	5	6	1	0.52	0.55	0.03	0.07	0.04	0	0	0	0	0	0
2/26/2025 14:00	52503	PROG_T2	0	0	0	0	0	0	0.27	0.36	0	0	0	0	0	0
2/26/2025 14:04	65602	QVIL_T2	48	43	-5	0.98	0.43	-0.55	0.31	0.36	0	0	0	0	0	0
2/26/2025 14:04	65601	QVIL_T2	4	2	-2	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
2/26/2025 14:08	44902	SCOT_T2	716	755	39	0.42	0.58	0.16	0	0	0	0	0	0	0	0
2/26/2025 14:08	44901	SCOT_T2	17	24	7	0.28	0.37	0.09	0.26	0.09	0	0	0	0	0	0
2/26/2025 14:09	54501	ENOL_T2	4	4	0	0.55	0.5	-0.05	-1.31	-1.3	1	1	0	600	600	0
2/26/2025 14:09	44901	SCOT_T2	17	24	7	0.28	0.37	0.09	0.26	0.09	0	0	0	0	0	0
2/26/2025 14:09	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/26/2025 14:09	44902	SCOT_T2	716	755	39	0.42	0.58	0.16	-1.01	-1.02	0	0	0	0	0	0
2/26/2025 14:09	54505	ENOL_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
2/26/2025 14:10	44902	SCOT_T2	716	755	39	0.42	0.58	0.16	-2.02	-2.04	0	0	0	0	0	0
2/26/2025 14:10	54505	ENOL_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
2/26/2025 14:10	44901	SCOT_T2	17	24	7	0.28	0.37	0.09	0.26	0.09	0	0	0	0	0	0
2/26/2025 14:10	54503	ENOL_T2	0	0	0	0	0	0	-1.18	-1.47	3	3	0	1800	1800	0
2/26/2025 14:10	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/26/2025 14:10	54501	ENOL_T2	4	4	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
2/26/2025 14:11	54501	ENOL_T2	4	4	0	0.55	0.5	-0.05	-1.31	-1.3	1	1	0	600	600	0
2/26/2025 14:11	46803	HEPB_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
2/26/2025 14:11	54503	ENOL_T2	0	0	0	0	0	0	-0.39	-0.49	1	1	0	600	600	0
2/26/2025 14:11	54505	ENOL_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
2/26/2025 14:11	46801	HEPB_T2	2	2	0	0.95	0.9	-0.05	0	0	0	0	0	0	0	0
2/26/2025 14:11	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/26/2025 14:14	54503	ENOL_T2	0	0	0	0	0	0	-0.39	-0.49	1	1	0	600	600	0
2/26/2025 14:14	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/26/2025 14:14	54505	ENOL_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
2/26/2025 14:14	54501	ENOL_T2	4	4	0	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
2/26/2025 14:19	57201	ROSS_T1	0	0	0	0	0	0	-0.34	-0.22	0	0	0	0	0	0
2/26/2025 14:20	57201	ROSS_T1	0	0	0	0	0	0	-0.34	-0.22	0	0	0	0	0	0
2/26/2025 14:28	11301	EMMA_T1	0	0	0	0	0	0	-0.91	-0.93	0	0	0	0	0	0
2/26/2025 14:28	11303	EMMA_T1	5	0	-5	0.38	0	-0.38	0	0	0	0	0	0	0	0
2/26/2025 14:29	44701	MUNC_T2	0	1	1	0	0.1	0.1	-1.07	-1.07	0	0	0	0	0	0
2/26/2025 14:29	44703	MUNC_T2	1	1	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
2/26/2025 14:32	44701	MUNC_T2	1	0	-1	0.1	0	-0.1	-1.07	-1.07	0	0	0	0	0	0
2/26/2025 14:32	44703	MUNC_T2	1	1	0	1.6	1.3	-0.3	0	0	0	0	0	0	0	0
2/26/2025 14:47	55002	NEWP_T1	6	6	0	1.37	1.02	-0.35	-0.3	-0.29	0	0	0	0	0	0
2/26/2025 14:47	55001	NEWP_T1	2	0	-2	0.3	0	-0.3	-0.42	-0.44	0	0	0	0	0	0
2/26/2025 14:50	65601	QVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/26/2025 14:50	65603	QVIL_T2	0	0	0	0	0	0	0.42	0.26	0	0	0	0	0	0
2/26/2025 14:50	65602	QVIL_T2	38	42	4	0.35	0.4	0.05	0	0	0	0	0	0	0	0
2/26/2025 14:52	55102	WERT_T2	0	0	0	0	0	0	-0.44	-0.48	0	0	0	0	0	0
2/26/2025 14:53	55102	WERT_T2	0	0	0	0	0	0	-0.44	-0.48	0	0	0	0	0	0
2/26/2025 14:58	13502	MCMI_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
2/26/2025 15:02	57201	ROSS_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 15:02	57205	ROSS_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
2/26/2025 15:05	57205	ROSS_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
2/26/2025 15:05	57201	ROSS_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 15:13	45802	HEGI_T2	15	1	-14	0.43	0.1	-0.33	0	0	0	0	0	0	0	0
2/26/2025 15:16	64202	KINZ_T1	3	0	-3	0.33	0	-0.33	0.59	0.57	0	0	0	0	0	0
2/26/2025 15:16	64201	KINZ_T1	231	3	-228	0.42	0.6	0.18	0	0	0	0	0	0	0	0
2/26/2025 15:16	64204	KINZ_T1	69	7	-62	1	0.29	-0.71	0	0	0	0	0	0	0	0
2/26/2025 15:17	64202	KINZ_T1	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
2/26/2025 15:17	64201	KINZ_T1	231	3	-228	0.42	0.6	0.18	0	0	0	0	0	0	0	0
2/26/2025 15:17	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.3	1	1	0	600	600	0
2/26/2025 15:17	64204	KINZ_T1	69	7	-62	1	0.29	-0.71	0	0	0	0	0	0	0	0
2/26/2025 15:18	64201	KINZ_T1	231	3	-228	0.42	0.6	0.18	0	0	0	0	0	0	0	0
2/26/2025 15:18	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 15:18	64204	KINZ_T1	69	7	-62	1	0.29	-0.71	0	0	0	0	0	0	0	0
2/26/2025 15:18	64202	KINZ_T1	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
2/26/2025 15:18	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 15:18	55002	NEWP_T1	6	6	0	0.98	1.08	0.1	-0.3	-0.28	0	0	0	0	0	0
2/26/2025 15:19	64201	KINZ_T1	231	3	-228	0.42	0.6	0.18	-1.8	-1.8	2	2	0	1800	1800	0
2/26/2025 15:19	64204	KINZ_T1	69	7	-62	1	0.29	-0.71	0	0	0	0	0	0	0	0
2/26/2025 15:19	64202	KINZ_T1	3	0	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
2/26/2025 15:19	64203	KINZ_T1	0	0	0	0	0	0	1.22	1.3	1	1	0	600	600	0
2/26/2025 15:22	67904	WNHO_T1	0	0	0	0	0	0	-1.18	-1.19	1	1	0	1200	1200	0
2/26/2025 15:22	57201	ROSS_T1	4	0	-4	0.1	0	-0.1	-0.47	-0.43	0	0	0	0	0	0
2/26/2025 15:23	60404	DILL_T2	1	1	0	5.6	5.8	0.2	-0.1	-0.25	1	1	0	1200	1200	0
2/26/2025 15:24	67903	WNHO_T1	0	0	0	0	0	0	1.41	1.38	1	1	0	1200	1200	0
2/26/2025 15:25	67106	SPRI_T2	1	1	0	0	0	0	-2.66	-2.66	2	2	0	1800	1800	0
2/26/2025 15:26	60404	DILL_T2	1	1	0	5.6	5.8	0.2	-0.1	-0.25	1	1	0	1200	1200	0
2/26/2025 15:27	46402	FLEM_T2	0	0	0	0	0	0	0.04	0.02	1	1	0	600	600	0
2/26/2025 15:27	67106	SPRI_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 15:28	54505	ENOL_T2	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
2/26/2025 15:28	54502	ENOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/26/2025 15:28	54501	ENOL_T2	4	4	0	0.53	0.3	-0.23	-1.28	-1.29	1	1	0	600	600	0
2/26/2025 15:39	60404	DILL_T2	1	1	0	5.8	6	0.2	-0.25	-0.27	1	1	0	1200	1200	0
2/26/2025 15:42	40802	SICH_T2	0	1	1	0	0	0	-0.17	-0.26	0	0	0	0	0	0
2/26/2025 15:43	46602	LACR_T1	0	1	1	0	0	0	-0.8	-0.78	0	0	0	0	0	0
2/26/2025 15:43	20603	GRWO_T2	0	8	8	0	0.23	0.23	0.3	0.35	0	0	0	0	0	0
2/26/2025 15:58	62104	ELAN_T1	0	0	0	0	0	0	0.31	0.27	1	1	0	1200	1200	0
2/26/2025 15:58	62103	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/26/2025 15:58	62105	ELAN_T1	256	220	-36	0.19	0.16	-0.03	0	0	0	0	0	0	0	0
2/26/2025 15:58	62102	ELAN_T1	3	2	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/26/2025 15:58	62106	ELAN_T1	17	23	6	0.16	0.14	-0.02	0	0	0	0	0	0	0	0
2/26/2025 15:58	62101	ELAN_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/26/2025 16:01	63501	HEID_TBK1-2	3	37	34	0.2	0.36	0.16	-0.33	-0.45	1	1	0	900	900	0
2/26/2025 16:02	13302	ORVI_T2	1	0	-1	0.1	0	-0.1	0.95	0.98	0	0	0	0	0	0
2/26/2025 16:05	54505	ENOL_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
2/26/2025 16:05	54503	ENOL_T2	0	0	0	0	0	0	-0.46	-0.47	1	1	0	600	600	0
2/26/2025 16:05	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
2/26/2025 16:05	54501	ENOL_T2	4	4	0	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
2/26/2025 16:10	12202	FOGE_T2	0	1	1	0	0	0	-0.67	-0.69	1	1	0	600	600	0
2/26/2025 16:14	41201	KENM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 16:14	41202	KENM_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/26/2025 16:14	41205	KENM_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
2/26/2025 16:16	44801	EDAN_T2	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
2/26/2025 16:18	62104	ELAN_T1	0	0	0	0	0	0	0.27	0.17	1	1	0	1200	1200	0
2/26/2025 16:18	62101	ELAN_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
2/26/2025 16:18	62103	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/26/2025 16:18	62106	ELAN_T1	16	3	-13	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
2/26/2025 16:18	62105	ELAN_T1	200	73	-127	0.16	0.11	-0.05	0	0	0	0	0	0	0	0
2/26/2025 16:18	62102	ELAN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/26/2025 16:20	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 16:20	57201	ROSS_T1	0	0	0	0	0	0	-0.48	-0.41	0	0	0	0	0	0
2/26/2025 16:20	43801	SWIL_T1	2	2	0	3.15	3.15	0	0	0	0	0	0	0	0	0
2/26/2025 16:25	46004	BERW_T2	0	2	2	0	1.3	1.3	-0.54	-0.57	0	0	0	0	0	0
2/26/2025 16:25	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/26/2025 16:29	64701	LITI_T1	0	0	0	0	0	0	0.2	0.16	0	0	0	0	0	0
2/26/2025 16:41	57201	ROSS_T1	0	0	0	0	0	0	-0.43	-0.35	0	0	0	0	0	0
2/26/2025 16:52	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
2/26/2025 16:56	14801	TREI_T2	0	2	2	0	0.15	0.15	0.34	0.39	0	0	0	0	0	0
2/26/2025 17:01	25603	ARRO_T1	26	34	8	0.17	0.16	-0.01	-0.01	-0.01	0	0	0	0	0	0
2/26/2025 17:01	25602	ARRO_T1	161	176	15	0.19	0.2	0.01	0	0	0	0	0	0	0	0
2/26/2025 17:01	25601	ARRO_T1	37	47	10	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
2/26/2025 17:14	57401	SPAN_T1	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
2/26/2025 17:14	57403	SPAN_T1	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
2/26/2025 17:42	11301	EMMA_T1	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
2/26/2025 17:47	60404	DILL_T2	1	1	0	7.6	3.3	-4.3	-0.24	-0.38	1	1	0	1200	1200	0
2/26/2025 18:12	44902	SCOT_T2	217	369	152	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
2/26/2025 18:12	44901	SCOT_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
2/26/2025 19:03	45501	DERR_T2	3	2	-1	0.5	1.1	0.6	0.45	0.4	2	2	0	1800	1800	0
2/26/2025 19:07	45501	DERR_T2	3	2	-1	0.5	1.1	0.6	0.4	0.47	2	2	0	1800	1800	0
2/26/2025 19:07	61503	EPET_T1	0	0	0	0	0	0	-0.46	-0.37	0	0	0	0	0	0
2/26/2025 19:10	10903	COOP_T2	0	0	0	0	0	0	-0.45	-0.4	1	1	0	600	600	0
2/26/2025 19:11	42501	ALTA_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
2/26/2025 19:13	47101	MARL_T1	0	0	0	0	0	0	-1.14	-1.19	0	0	0	0	0	0
2/26/2025 19:18	40101	HUNT_T2	0	3	3	0	0.33	0.33	-1.5	-1.54	0	0	0	0	0	0
2/26/2025 19:25	54502	ENOL_T2	0	0	0	0	0	0	-1.38	-1.38	0	0	0	0	0	0
2/26/2025 19:25	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
2/26/2025 19:25	59101	WALK_T2	0	0	0	0	0	0	1.11	1.16	0	0	0	0	0	0
2/26/2025 19:26	52401	GRPA_T2	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
2/26/2025 19:26	52404	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:26	52402	GRPA_T2	3	3	0	0.17	0.27	0.1	0	0	0	0	0	0	0	0
2/26/2025 19:28	64904	MILL_T1	13	12	-1	0.13	0.15	0.02	-0.6	-0.57	0	0	0	0	0	0
2/26/2025 19:28	64901	MILL_T1	24	48	24	0.17	0.18	0.01	0	0	0	0	0	0	0	0
2/26/2025 19:29	55001	NEWP_T1	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
2/26/2025 19:29	59201	THOM_T1	6	7	1	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
2/26/2025 19:29	47402	PENS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:29	47401	PENS_T1	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
2/26/2025 19:29	55002	NEWP_T1	4	4	0	0.95	1.08	0.13	0	0	0	0	0	0	0	0
2/26/2025 19:29	59202	THOM_T1	19	18	-1	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
2/26/2025 19:30	48901	FOSP_T2	0	0	0	0	0	0	0.3	0.24	0	0	0	0	0	0
2/26/2025 19:31	52402	GRPA_T2	3	3	0	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
2/26/2025 19:31	52401	GRPA_T2	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
2/26/2025 19:33	41901	REED_T1	6	8	2	0.18	0.26	0.08	0	0	0	0	0	0	0	0
2/26/2025 19:33	41902	REED_T1	1	1	0	0.5	0	-0.5	0.99	1.01	0	0	0	0	0	0
2/26/2025 19:33	55002	NEWP_T1	4	4	0	1.08	0.98	-0.1	-0.27	-0.27	0	0	0	0	0	0
2/26/2025 19:34	55002	NEWP_T1	4	4	0	1.08	0.98	-0.1	-0.54	-0.54	0	0	0	0	0	0
2/26/2025 19:34	67605	WARW_T1	1	12	11	0.2	0.2	0	-0.87	-0.91	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/26/2025 19:34	41901	REED_T1	6	8	2	0.18	0.26	0.08	0	0	0	0	0	0	0	0
2/26/2025 19:34	41902	REED_T1	1	1	0	0.5	0	-0.5	0.99	1.01	0	0	0	0	0	0
2/26/2025 19:35	59101	WALK_T2	0	0	0	0	0	0	1.11	1.16	0	0	0	0	0	0
2/26/2025 19:35	41902	REED_T1	1	1	0	0.5	0	-0.5	0.99	1.01	0	0	0	0	0	0
2/26/2025 19:35	67605	WARW_T1	1	12	11	0.2	0.2	0	-1.73	-1.81	0	0	0	0	0	0
2/26/2025 19:35	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.05	0	0	0	0	0	0
2/26/2025 19:35	41901	REED_T1	6	8	2	0.18	0.26	0.08	0	0	0	0	0	0	0	0
2/26/2025 19:35	55002	NEWP_T1	4	4	0	1.08	0.98	-0.1	-0.27	-0.27	0	0	0	0	0	0
2/26/2025 19:36	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:36	55002	NEWP_T1	4	4	0	1.08	0.98	-0.1	-0.27	-0.27	0	0	0	0	0	0
2/26/2025 19:36	55001	NEWP_T1	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
2/26/2025 19:36	67604	WARW_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
2/26/2025 19:36	67605	WARW_T1	1	12	11	0.2	0.2	0	0	0	0	0	0	0	0	0
2/26/2025 19:37	55002	NEWP_T1	4	4	0	1.08	0.98	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:37	55001	NEWP_T1	0	0	0	0	0	0	-0.9	-0.84	0	0	0	0	0	0
2/26/2025 19:38	67605	WARW_T1	1	12	11	0.2	0.2	0	0	0	0	0	0	0	0	0
2/26/2025 19:38	48901	FOSP_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
2/26/2025 19:38	67604	WARW_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
2/26/2025 19:39	46203	DANV_T2	104	220	116	0.6	0.7	0.1	0	0	0	0	0	0	0	0
2/26/2025 19:39	40505	CRES_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
2/26/2025 19:39	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:39	48302	ORWI_T2	2	2	0	0.5	0.65	0.15	-0.07	-0.12	0	0	0	0	0	0
2/26/2025 19:39	44502	HAMI_T2	1	4	0	3.2	3.5	0.3	0	0	0	0	0	0	0	0
2/26/2025 19:39	46205	DANV_T2	0	0	0	0	0	0	-0.89	-0.89	1	1	0	1200	1200	0
2/26/2025 19:39	42701	AUGU_T1	1	1	0	0.7	0.8	0.1	0	0	2	2	0	1800	1800	0
2/26/2025 19:40	55002	NEWP_T1	4	4	0	1.08	0.98	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:40	55001	NEWP_T1	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
2/26/2025 19:40	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:40	48301	ORWI_T1	2	2	0	4.2	4.2	0	0.05	0.03	0	0	0	0	0	0
2/26/2025 19:40	46203	DANV_T2	104	220	116	0.6	0.7	0.1	-1.06	-1.06	0	0	0	0	0	0
2/26/2025 19:40	48901	FOSP_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
2/26/2025 19:41	42902	MIDD_T2	1	2	1	0.9	0.1	-0.8	-0.62	-0.33	0	0	0	0	0	0
2/26/2025 19:41	58401	MORO_T1	0	0	0	0	0	0	-2.58	-2.57	2	2	0	1200	1200	0
2/26/2025 19:41	55002	NEWP_T1	4	4	0	1.08	0.98	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:41	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:41	64701	LITI_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
2/26/2025 19:41	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:41	42701	AUGU_T1	1	1	0	0.7	0.8	0.1	0	0	2	2	0	1800	1800	0
2/26/2025 19:41	55001	NEWP_T1	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
2/26/2025 19:41	42902	MIDD_T2	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
2/26/2025 19:41	46203	DANV_T2	104	220	116	0.6	0.7	0.1	-1.06	-1.06	0	0	0	0	0	0
2/26/2025 19:42	48901	FOSP_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
2/26/2025 19:42	22602	KIMB_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
2/26/2025 19:42	52402	GRPA_T2	3	3	0	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
2/26/2025 19:42	46903	MNTG_T2	0	0	0	0	0	0	-0.83	-0.82	1	1	0	600	600	0
2/26/2025 19:42	44201	POIN_T1	66	125	59	0.18	0.27	0.09	-2.05	-2.11	2	2	0	2100	2100	0
2/26/2025 19:42	42701	AUGU_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
2/26/2025 19:42	42503	ALTA_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
2/26/2025 19:43	48902	FOSP_T2	0	0	0	0	0	0	0.12	0.06	0	0	0	0	0	0
2/26/2025 19:43	23001	SAJO_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
2/26/2025 19:43	42501	ALTA_T2	0	0	0	0	0	0	0.62	0.63	0	0	0	0	0	0
2/26/2025 19:43	20403	ASHF_T2	0	0	0	0	0	0	0.34	0.25	0	0	0	0	0	0
2/26/2025 19:43	20401	ASHF_T2	2	2	0	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:44	42701	AUGU_T1	1	1	0	0.7	0.8	0.1	0	0	2	2	0	1800	1800	0
2/26/2025 19:44	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:44	44502	HAMI_T2	1	1	0	3.2	3.5	0.3	0	0	0	0	0	0	0	0
2/26/2025 19:44	41901	REED_T1	6	8	2	0.18	0.26	0.08	0	0	0	0	0	0	0	0
2/26/2025 19:44	52503	PROG_T2	0	1	1	0	0	0	0.24	0.28	0	0	0	0	0	0
2/26/2025 19:44	67604	WARW_T1	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
2/26/2025 19:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:44	54601	SUMM_T2	1	1	0	0.3	0.3	0	-1.87	-1.88	2	2	0	2100	2100	0
2/26/2025 19:44	41902	REED_T1	1	1	0	0.5	0	-0.5	1.01	1.04	0	0	0	0	0	0
2/26/2025 19:44	67605	WARW_T1	1	12	11	0.2	0.2	0	-0.91	-0.9	0	0	0	0	0	0
2/26/2025 19:44	52502	PROG_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
2/26/2025 19:44	44505	HAMI_T2	0	0	0	0	0	0	-0.17	-0.19	0	0	0	0	0	0
2/26/2025 19:44	48902	FOSP_T2	0	0	0	0	0	0	0.12	0.06	0	0	0	0	0	0
2/26/2025 19:44	40101	HUNT_T2	3	3	0	0.33	0.4	0.07	-1.52	-1.53	0	0	0	0	0	0
2/26/2025 19:44	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/26/2025 19:45	58102	NEKI_T1	1	1	0	0.9	1	0.1	0.06	0.23	0	0	0	0	0	0
2/26/2025 19:45	64203	KINZ_T1	0	0	0	0	0	0	0.25	0.19	0	0	0	0	0	0
2/26/2025 19:45	44301	BEAV_T2	2	0	-2	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/26/2025 19:45	45501	DERR_T2	2	3	1	0.55	0.1	-0.45	0.79	0.66	4	4	0	3600	3600	0
2/26/2025 19:45	52006	LING_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/26/2025 19:45	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:45	64201	KINZ_T1	4	2	-2	0.35	0.7	0.35	0	0	0	0	0	0	0	0
2/26/2025 19:45	54503	ENOL_T2	0	0	0	0	0	0	-0.42	-0.43	1	1	0	600	600	0
2/26/2025 19:45	54601	SUMM_T2	1	1	0	0.2	0.3	0.1	-1.87	-1.88	2	2	0	2100	2100	0
2/26/2025 19:45	40802	EXCH_T2	0	0	0	0	0	0	-0.28	-0.25	0	0	0	0	0	0
2/26/2025 19:45	22602	KIMB_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
2/26/2025 19:45	27502	WEIS_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
2/26/2025 19:45	44302	BEAV_T2	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
2/26/2025 19:45	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:45	47401	PENS_T1	0	0	0	0	0	0	0.79	0.77	0	0	0	0	0	0
2/26/2025 19:45	64204	KINZ_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
2/26/2025 19:45	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:45	40501	CRES_T2	9	8	-1	0.27	0.44	0.17	0	0	0	0	0	0	0	0
2/26/2025 19:45	41601	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:45	46602	LACR_T1	0	0	0	0	0	0	-0.75	-0.76	0	0	0	0	0	0
2/26/2025 19:45	54505	ENOL_T2	1	1	0	0.6	0.5	-0.1	-0.65	-0.65	1	1	0	600	600	0
2/26/2025 19:45	57205	ROSS_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
2/26/2025 19:45	52402	GRPA_T2	3	3	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
2/26/2025 19:45	44902	SCOT_T2	394	321	-73	0.25	0.31	0.06	0	0	0	0	0	0	0	0
2/26/2025 19:45	52004	LING_T2	2	2	0	5.9	5.95	0.05	0.11	0.12	0	0	0	0	0	0
2/26/2025 19:45	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:45	44901	SCOT_T2	0	0	0	0	0	0	0.05	0.21	0	0	0	0	0	0
2/26/2025 19:46	20603	GRWO_T2	1	1	0	0.1	0.1	0	0.41	0.36	0	0	0	0	0	0
2/26/2025 19:46	57203	ROSS_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
2/26/2025 19:46	55102	WERT_T2	0	0	0	0	0	0	-0.5	-0.46	0	0	0	0	0	0
2/26/2025 19:46	65001	NEFF_T2	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
2/26/2025 19:46	52004	LING_T2	2	2	0	5.9	5.95	0.05	0.21	0.23	0	0	0	0	0	0
2/26/2025 19:46	42601	TUSC_T1	9	11	2	1.1	1.43	0.33	0.93	0.8	1	1	0	600	600	0
2/26/2025 19:46	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.29	1	1	0	600	600	0
2/26/2025 19:46	25601	ARRO_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
2/26/2025 19:46	43202	MVIL_T2	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
2/26/2025 19:46	45802	HEGI_T2	5	30	25	0.34	0.44	0.1	0	0	0	0	0	0	0	0
2/26/2025 19:46	52503	PROG_T2	0	0	0	0	0	0	0.24	0.28	0	0	0	0	0	0
2/26/2025 19:46	20403	ASHF_T2	0	0	0	0	0	0	0.34	0.25	0	0	0	0	0	0
2/26/2025 19:46	52006	LING_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/26/2025 19:46	17802	GILB_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
2/26/2025 19:46	21705	SUBU_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
2/26/2025 19:46	54503	ENOL_T2	0	0	0	0	0	0	-1.26	-1.29	3	3	0	1800	1800	0
2/26/2025 19:46	20401	ASHF_T2	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
2/26/2025 19:46	44902	SCOT_T2	394	321	-73	0.25	0.31	0.06	-1.06	-1.04	0	0	0	0	0	0
2/26/2025 19:46	52403	GRPA_T2	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
2/26/2025 19:46	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:46	52402	GRPA_T2	3	3	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
2/26/2025 19:46	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:46	10602	BLGL_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
2/26/2025 19:46	21701	SUBU_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:46	59102	WALK_T2	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
2/26/2025 19:46	21703	SUBU_T1	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
2/26/2025 19:46	54505	ENOL_T2	1	1	0	0.6	0.5	-0.1	-0.65	-0.65	1	1	0	600	600	0
2/26/2025 19:46	27502	WEIS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:46	48901	FOSP_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
2/26/2025 19:46	54506	ENOL_T2	0	0	0	0	0	0	-0.17	-0.15	1	0	-1	600	0	-600
2/26/2025 19:47	52004	LING_T2	2	2	0	5.9	5.95	0.05	0.11	0.12	0	0	0	0	0	0
2/26/2025 19:47	58201	NEWV_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/26/2025 19:47	44701	MUNC_T2	0	0	0	0	0	0	-1.39	-1.41	0	0	0	0	0	0
2/26/2025 19:47	58402	MORO_T1	0	0	0	0	0	0	0.12	0.06	2	2	0	1350	1350	0
2/26/2025 19:47	24202	PROV_T4	2	12	10	0.1	0.13	0.03	-0.85	-0.87	1	1	0	1200	1200	0
2/26/2025 19:47	60701	BREC_T1	193	256	63	0.17	0.21	0.04	-0.56	-0.58	1	1	0	600	600	0
2/26/2025 19:47	52006	LING_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/26/2025 19:47	64201	KINZ_T1	4	2	-2	0.35	0.7	0.35	-0.72	-0.64	2	2	0	1200	1200	0
2/26/2025 19:47	44703	MUNC_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:47	55102	WERT_T2	0	0	0	0	0	0	-0.5	-0.46	0	0	0	0	0	0
2/26/2025 19:47	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.29	1	1	0	600	600	0
2/26/2025 19:47	52402	GRPA_T2	3	3	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
2/26/2025 19:47	62105	ELAN_T1	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/26/2025 19:47	41901	REED_T1	6	8	2	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
2/26/2025 19:47	62104	ELAN_T1	0	0	0	0	0	0	0.26	0.28	1	1	0	1200	1200	0
2/26/2025 19:47	43202	MVIL_T2	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
2/26/2025 19:47	16902	MECK_T1	116	142	26	0.34	0.37	0.03	0.13	0.13	0	0	0	0	0	0
2/26/2025 19:47	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:47	64204	KINZ_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
2/26/2025 19:47	43402	BENT_T1	0	0	0	0	0	0	-0.97	-0.95	1	1	0	900	900	0
2/26/2025 19:47	62101	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:47	21705	SUBU_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
2/26/2025 19:47	63501	HEID_TBK1-2	1	1	0	0.2	0.3	0.1	0.46	0.45	0	0	0	0	0	0
2/26/2025 19:47	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:47	21701	SUBU_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:47	16901	MECK_T1	41	81	40	0.17	0.26	0.09	0	0	0	0	0	0	0	0
2/26/2025 19:47	46004	BERW_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
2/26/2025 19:47	42701	AUGU_T1	1	1	0	0.4	0.8	0.4	0	0	2	2	0	1800	1800	0
2/26/2025 19:47	52502	PROG_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
2/26/2025 19:47	41902	REED_T1	1	0	-1	0.3	0	-0.3	1.01	1.04	0	0	0	0	0	0
2/26/2025 19:47	46002	BERW_T2	0	0	0	0	0	0	-0.17	-0.13	0	0	0	0	0	0
2/26/2025 19:47	62103	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/26/2025 19:47	63401	HONY_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:48	13302	ORVI_T2	7	8	1	0.13	0.16	0.03	1.02	1.02	0	0	0	0	0	0
2/26/2025 19:48	54505	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:48	54504	ENOL_T2	0	0	0	0	0	0	-1.13	-1.11	1	1	0	600	600	0
2/26/2025 19:48	60701	BREC_T1	193	256	63	0.17	0.21	0.04	-0.56	-0.58	1	1	0	600	600	0
2/26/2025 19:48	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/26/2025 19:48	57205	ROSS_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
2/26/2025 19:48	54601	SUMM_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/26/2025 19:48	67106	SPRI_T2	1	1	0	0	0	0	-1.3	-1.31	1	1	0	900	900	0
2/26/2025 19:48	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:49	42902	MIDD_T2	2	1	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/26/2025 19:49	42903	MIDD_T2	2	2	0	0.5	0.6	0.1	-0.23	-0.32	0	0	0	0	0	0
2/26/2025 19:49	57205	ROSS_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
2/26/2025 19:49	46802	HEPB_T1	1	1	0	1.2	1.1	-0.1	-1.29	-1.26	0	0	0	0	0	0
2/26/2025 19:49	40505	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:49	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:49	60701	BREC_T1	193	256	63	0.17	0.21	0.04	-0.56	-0.58	1	1	0	600	600	0
2/26/2025 19:49	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:49	67106	SPRI_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:49	45801	HEGI_T1	0	0	0	0	0	0	-0.33	-0.33	1	1	0	900	900	0
2/26/2025 19:49	40802	EXCH_T2	0	0	0	0	0	0	-0.28	-0.25	0	0	0	0	0	0
2/26/2025 19:49	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
2/26/2025 19:49	46004	BERW_T2	0	2	2	0	0.5	0.5	-0.62	-0.57	0	0	0	0	0	0
2/26/2025 19:49	61301	EARL_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
2/26/2025 19:49	66505	SMAN_T2	3	3	0	1.17	1.4	0.23	0	0	0	0	0	0	0	0
2/26/2025 19:49	47403	PENS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:50	25404	LAHA_T2	378	467	89	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
2/26/2025 19:50	15201	SFAR_T1	0	0	0	0	0	0	-0.96	-0.91	2	2	0	1800	1800	0
2/26/2025 19:50	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
2/26/2025 19:50	62106	ELAN_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
2/26/2025 19:50	41601	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:50	48901	FOSP_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
2/26/2025 19:50	63802	HEMP_T1	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
2/26/2025 19:50	60404	DILL_T2	1	1	0	5.3	8.6	3.3	-0.44	-0.38	1	1	0	1200	1200	0
2/26/2025 19:50	16901	MECK_T1	41	81	40	0.17	0.26	0.09	0	0	0	0	0	0	0	0
2/26/2025 19:50	43402	BENT_T1	0	0	0	0	0	0	-0.97	-0.95	1	1	0	900	900	0
2/26/2025 19:50	60701	BREC_T1	193	256	63	0.17	0.21	0.04	-1.69	-1.75	3	3	0	1800	1800	0
2/26/2025 19:50	62101	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:50	65503	MOJO_T2	0	0	0	0	0	0	-0.2	-0.12	0	0	0	0	0	0
2/26/2025 19:50	46203	DANV_T2	211	186	-25	0.7	0.66	-0.04	-1.06	-1.06	0	0	0	0	0	0
2/26/2025 19:50	44902	SCOT_T2	394	321	-73	0.25	0.31	0.06	0	0	0	0	0	0	0	0
2/26/2025 19:50	17401	FOHI_T1	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
2/26/2025 19:50	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:50	64704	LITI_T1	0	0	0	0	0	0	0.27	0.24	1	1	0	600	600	0
2/26/2025 19:50	40505	CRES_T1	0	0	0	0	0	0	0.4	0.38	0	0	0	0	0	0
2/26/2025 19:50	14801	TREI_T2	0	0	0	0	0	0	0.39	0.42	0	0	0	0	0	0
2/26/2025 19:50	23202	HIRU_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:50	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.39	0	0	0	0	0	0
2/26/2025 19:50	25402	LAHA_T2	95	78	-17	0.23	0.2	-0.03	-0.77	-0.74	0	0	0	0	0	0
2/26/2025 19:50	61701	ELIZ_T1	1	1	0	5.7	4.7	-1	-0.01	0.83	0	0	0	0	0	0
2/26/2025 19:50	44901	SCOT_T2	0	0	0	0	0	0	0.05	0.21	0	0	0	0	0	0
2/26/2025 19:50	23203	HIRU_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
2/26/2025 19:50	52004	LING_T2	2	2	0	5.9	5.95	0.05	0	0	0	0	0	0	0	0
2/26/2025 19:50	62105	ELAN_T1	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/26/2025 19:50	55003	NEWP_T2	0	1	1	0	0	0	-0.86	-0.87	1	1	0	600	600	0
2/26/2025 19:50	62103	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/26/2025 19:50	58401	MORO_T1	0	0	0	0	0	0	-2.58	-2.57	2	2	0	1200	1200	0
2/26/2025 19:50	16902	MECK_T1	116	142	26	0.34	0.37	0.03	0	0	0	0	0	0	0	0
2/26/2025 19:50	52006	LING_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/26/2025 19:50	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:50	67904	WNHO_T1	0	0	0	0	0	0	-1.21	-1.21	1	1	0	1200	1200	0
2/26/2025 19:50	63804	HEMP_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
2/26/2025 19:50	40501	CRES_T2	9	8	-1	0.27	0.44	0.17	0	0	0	0	0	0	0	0
2/26/2025 19:50	63501	HEID_TBK1-2	1	1	0	0.2	0.3	0.1	0.46	0.45	0	0	0	0	0	0
2/26/2025 19:50	43801	SWIL_T1	2	2	0	3.1	3.25	0.15	0	0	0	0	0	0	0	0
2/26/2025 19:50	67203	TEHI_T1	0	1	1	0	0	0	2.49	2.54	2	2	0	1500	1500	0
2/26/2025 19:50	60201	ATGL_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
2/26/2025 19:50	57201	ROSS_T1	0	0	0	0	0	0	-1.23	-1.28	0	0	0	0	0	0
2/26/2025 19:50	40101	HUNT_T2	3	3	0	0.4	1.3	0.9	-1.52	-1.53	0	0	0	0	0	0
2/26/2025 19:51	44502	HAMI_T2	1	1	0	3.5	3.4	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:51	45702	LIND_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
2/26/2025 19:51	57201	ROSS_T1	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
2/26/2025 19:51	48901	FOSP_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
2/26/2025 19:51	54501	ENOL_T2	0	0	0	0	0	0	-2.36	-2.34	2	2	0	1200	1200	0
2/26/2025 19:51	67605	WARW_T1	10	12	2	0.18	0.18	0	-1.79	-1.87	0	0	0	0	0	0
2/26/2025 19:51	52004	LING_T2	2	2	0	5.9	5.95	0.05	0.11	0.12	0	0	0	0	0	0
2/26/2025 19:51	44505	HAMI_T2	0	0	0	0	0	0	-0.19	-0.2	0	0	0	0	0	0
2/26/2025 19:51	66505	SMAN_T2	3	3	0	1.17	1.4	0.23	0	0	0	0	0	0	0	0
2/26/2025 19:51	20603	GRWO_T2	1	1	0	0.1	0.1	0	0.36	0.37	0	0	0	0	0	0
2/26/2025 19:51	20601	GRWO_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
2/26/2025 19:51	16902	MECK_T1	116	142	26	0.34	0.37	0.03	0.39	0.39	0	0	0	0	0	0
2/26/2025 19:51	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:51	54502	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:51	52006	LING_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/26/2025 19:51	16901	MECK_T1	41	81	40	0.17	0.26	0.09	0	0	0	0	0	0	0	0
2/26/2025 19:51	25402	LAHA_T2	95	78	-17	0.23	0.2	-0.03	-0.74	-0.77	0	0	0	0	0	0
2/26/2025 19:51	20401	ASHF_T2	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
2/26/2025 19:51	24701	FLND_T2	9	9	0	0.71	0.7	-0.01	0	0	0	0	0	0	0	0
2/26/2025 19:51	40505	CRES_T1	0	0	0	0	0	0	1.14	1.2	0	0	0	0	0	0
2/26/2025 19:51	54505	ENOL_T2	1	1	0	0.6	0.5	-0.1	-0.65	-0.65	1	1	0	600	600	0
2/26/2025 19:51	60801	BUCK_T1	0	12	12	0	0.13	0.13	-0.27	-0.26	0	0	0	0	0	0
2/26/2025 19:51	24702	FLND_T2	0	0	0	0	0	0	-0.04	-0.33	1	1	0	1200	1200	0
2/26/2025 19:51	60803	BUCK_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
2/26/2025 19:51	66504	SMAN_T2	0	0	0	0	0	0	-1.27	-1.27	0	0	0	0	0	0
2/26/2025 19:51	44902	SCOT_T2	394	321	-73	0.25	0.31	0.06	-2.08	-2.12	0	0	0	0	0	0
2/26/2025 19:51	43202	MVIL_T2	0	0	0	0	0	0	-1.4	-1.44	0	0	0	0	0	0
2/26/2025 19:51	45701	LIND_T2	0	0	0	0	0	0	-0.32	-0.33	0	0	0	0	0	0
2/26/2025 19:51	52502	PROG_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
2/26/2025 19:51	25404	LAHA_T2	378	467	89	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
2/26/2025 19:51	54601	SUMM_T2	1	1	0	0.2	0.3	0.1	-1.87	-1.88	2	2	0	2100	2100	0
2/26/2025 19:51	58402	MORO_T1	0	0	0	0	0	0	0.12	0.06	2	2	0	1350	1350	0
2/26/2025 19:51	20403	ASHF_T2	0	0	0	0	0	0	0.25	0.2	0	0	0	0	0	0
2/26/2025 19:51	17802	GILB_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
2/26/2025 19:52	58402	MORO_T1	0	0	0	0	0	0	0.06	0.02	2	2	0	1350	1350	0
2/26/2025 19:52	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.27	1	1	0	600	600	0
2/26/2025 19:52	52502	PROG_T2	0	0	0	0	0	0	0.28	0.3	0	0	0	0	0	0
2/26/2025 19:52	64201	KINZ_T1	4	2	-2	0.35	0.7	0.35	-0.64	-0.35	2	1	-1	1200	900	-300
2/26/2025 19:52	54503	ENOL_T2	0	0	0	0	0	0	-0.86	-0.84	2	2	0	1200	1200	0
2/26/2025 19:52	14801	TREI_T2	0	0	0	0	0	0	0.42	0.38	0	0	0	0	0	0
2/26/2025 19:52	63401	HONY_T1	0	0	0	0	0	0	0.42	0.54	0	0	0	0	0	0
2/26/2025 19:52	13502	MCMI_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
2/26/2025 19:52	62105	ELAN_T1	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
2/26/2025 19:52	23902	EFMO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:52	54501	ENOL_T2	0	0	0	0	0	0	-1.17	-1.2	1	1	0	600	600	0
2/26/2025 19:52	41001	LAUR_T2	2	1	-1	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
2/26/2025 19:52	41002	LAUR_T2	1	1	0	1.4	1.6	0.2	-0.96	-0.97	0	0	0	0	0	0
2/26/2025 19:52	52006	LING_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/26/2025 19:52	67602	WARW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:52	67203	TEHI_T1	0	1	1	0	0	0	2.54	2.58	2	2	0	1500	1500	0
2/26/2025 19:52	45701	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:52	57203	ROSS_T1	0	0	0	0	0	0	-0.41	-0.38	0	0	0	0	0	0
2/26/2025 19:52	15201	SFAR_T1	0	0	0	0	0	0	-2.74	-2.92	6	6	0	5400	5400	0
2/26/2025 19:52	42503	ALTA_T2	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
2/26/2025 19:52	52402	GRPA_T2	3	3	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
2/26/2025 19:52	11301	EMMA_T1	0	0	0	0	0	0	-0.79	-0.91	0	0	0	0	0	0
2/26/2025 19:52	64204	KINZ_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
2/26/2025 19:52	44801	EDAN_T2	0	0	0	0	0	0	-0.46	-0.5	0	0	0	0	0	0
2/26/2025 19:52	67601	WARW_T2	0	0	0	0	0	0	-0.56	-0.6	0	0	0	0	0	0
2/26/2025 19:52	11202	ELHE_T2	0	0	0	0	0	0	0.36	0.38	1	1	0	1200	1200	0
2/26/2025 19:52	62101	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:52	54601	SUMM_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/26/2025 19:52	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:52	62104	ELAN_T1	0	0	0	0	0	0	0.28	0.26	1	1	0	1200	1200	0
2/26/2025 19:52	10401	LIGA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:52	45702	LIND_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
2/26/2025 19:52	13302	ORVI_T2	7	8	1	0.13	0.16	0.03	2.04	2.09	0	0	0	0	0	0
2/26/2025 19:52	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:52	52004	LING_T2	2	2	0	5.9	5.95	0.05	0.12	0.11	0	0	0	0	0	0
2/26/2025 19:52	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:52	62103	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/26/2025 19:52	54505	ENOL_T2	1	1	0	0.6	0.5	-0.1	-0.65	-0.65	1	1	0	600	600	0
2/26/2025 19:52	16902	MECK_T1	116	142	26	0.34	0.37	0.03	0.13	0.12	0	0	0	0	0	0
2/26/2025 19:52	52403	GRPA_T2	0	0	0	0	0	0	-1.06	-1.13	0	0	0	0	0	0
2/26/2025 19:52	14802	TREI_T2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
2/26/2025 19:52	40101	HUNT_T2	3	3	0	0.4	1.3	0.9	-1.53	-1.55	0	0	0	0	0	0
2/26/2025 19:52	60701	BREC_T1	193	256	63	0.17	0.21	0.04	-0.58	-0.59	1	1	0	600	600	0
2/26/2025 19:52	23901	EFMO_T2	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
2/26/2025 19:52	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:52	11201	ELHE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:52	46803	HEPB_T2	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
2/26/2025 19:52	13303	ORVI_T1	0	0	0	0	0	0	0.73	0.94	0	0	0	0	0	0
2/26/2025 19:52	16901	MECK_T1	41	81	40	0.17	0.26	0.09	0	0	0	0	0	0	0	0
2/26/2025 19:52	10801	OHHI_T1	0	0	0	0	0	0	-1.62	-1.65	1	1	0	600	600	0
2/26/2025 19:52	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:53	55001	NEWP_T1	0	1	1	0	0	0	-0.42	-0.48	0	0	0	0	0	0
2/26/2025 19:53	54505	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:53	57402	SPAN_T2	0	0	0	0	0	0	-0.59	-0.58	0	0	0	0	0	0
2/26/2025 19:53	67106	SPRI_T2	1	1	0	0	0	0	-1.31	-1.32	1	1	0	900	900	0
2/26/2025 19:53	58201	NEWV_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/26/2025 19:53	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.27	1	1	0	600	600	0
2/26/2025 19:53	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
2/26/2025 19:53	63401	HONY_T1	0	0	0	0	0	0	0.42	0.54	0	0	0	0	0	0
2/26/2025 19:53	41001	LAUR_T2	2	1	-1	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
2/26/2025 19:53	60701	BREC_T1	193	256	63	0.17	0.21	0.04	-1.17	-1.19	2	2	0	1200	1200	0
2/26/2025 19:53	54504	ENOL_T2	0	0	0	0	0	0	-1.11	-1.12	1	1	0	600	600	0
2/26/2025 19:53	55002	NEWP_T1	4	4	0	0.98	0.8	-0.18	0	0	0	0	0	0	0	0
2/26/2025 19:53	60201	ATGL_T2	0	0	0	0	0	0	-0.09	-0.14	0	0	0	0	0	0
2/26/2025 19:53	57203	ROSS_T1	0	0	0	0	0	0	-0.41	-0.38	0	0	0	0	0	0
2/26/2025 19:53	41002	LAUR_T2	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/26/2025 19:53	64701	LITI_T1	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
2/26/2025 19:53	61504	EPET_T2	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
2/26/2025 19:53	58202	NEWV_T1	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
2/26/2025 19:54	66505	SMAN_T2	3	3	0	1.17	1.4	0.23	0	0	0	0	0	0	0	0
2/26/2025 19:54	41001	LAUR_T2	2	1	-1	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
2/26/2025 19:54	67901	WNHO_T2	33	28	-5	0.22	0.19	-0.03	0	0	0	0	0	0	0	0
2/26/2025 19:54	41002	LAUR_T2	1	1	0	1.4	1.6	0.2	0	0	0	0	0	0	0	0
2/26/2025 19:54	14801	TREI_T2	0	0	0	0	0	0	0.42	0.38	0	0	0	0	0	0
2/26/2025 19:54	60404	DILL_T2	1	1	0	5.3	8.6	3.3	-0.38	-0.4	1	1	0	1200	1200	0
2/26/2025 19:54	11301	EMMA_T1	0	0	0	0	0	0	-0.79	-0.91	0	0	0	0	0	0
2/26/2025 19:54	66502	SMAN_T2	0	0	0	0	0	0	0.03	-0.19	0	0	0	0	0	0
2/26/2025 19:54	67903	WNHO_T1	0	0	0	0	0	0	1.24	1.2	1	1	0	1200	1200	0
2/26/2025 19:54	61701	ELIZ_T1	1	1	0	5.7	4.7	-1	0	0	0	0	0	0	0	0
2/26/2025 19:54	46004	BERW_T2	0	2	2	0	0.5	0.5	-0.57	-0.61	0	0	0	0	0	0
2/26/2025 19:54	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:54	61703	ELIZ_T1	0	0	0	0	0	0	-4.2	-3.95	2	2	0	1800	1800	0
2/26/2025 19:54	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:54	11103	EGYP_T1	0	0	0	0	0	0	0.25	0.29	0	0	0	0	0	0
2/26/2025 19:54	10101	ALLE_T3	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
2/26/2025 19:54	44701	MUNC_T2	0	0	0	0	0	0	-1.41	-1.4	0	0	0	0	0	0
2/26/2025 19:54	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.27	1	1	0	600	600	0
2/26/2025 19:54	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:54	14802	TREI_T2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
2/26/2025 19:54	60701	BREC_T1	193	256	63	0.17	0.21	0.04	-0.58	-0.59	1	1	0	600	600	0
2/26/2025 19:54	11104	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:54	44703	MUNC_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:55	54505	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:55	41601	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:55	40505	CRES_T1	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
2/26/2025 19:55	66504	SMAN_T2	0	0	0	0	0	0	-1.27	-1.27	0	0	0	0	0	0
2/26/2025 19:55	66505	SMAN_T2	3	3	0	1.17	1.4	0.23	0	0	0	0	0	0	0	0
2/26/2025 19:55	42701	AUGU_T1	1	1	0	0.4	0.8	0.4	0	0	2	2	0	1800	1800	0
2/26/2025 19:55	43202	MVIL_T2	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
2/26/2025 19:55	57401	SPAN_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
2/26/2025 19:55	63501	HEID_TBK1-2	1	1	0	0.2	0.3	0.1	0.45	0.41	0	0	0	0	0	0
2/26/2025 19:55	60701	BREC_T1	193	256	63	0.17	0.21	0.04	-0.58	-0.59	1	1	0	600	600	0
2/26/2025 19:55	46402	FLEM_T2	0	0	0	0	0	0	-0.04	-0.09	1	1	0	600	600	0
2/26/2025 19:55	61506	EPET_T2	0	0	0	0	0	0	-1.06	-1.03	1	1	0	900	900	0
2/26/2025 19:55	65601	QVIL_T2	3	14	11	0.1	0.15	0.05	0	0	0	0	0	0	0	0
2/26/2025 19:55	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:55	64704	LITI_T1	0	0	0	0	0	0	0.24	0.06	1	1	0	600	600	0
2/26/2025 19:55	44201	POIN_T1	84	125	41	0.18	0.27	0.09	-2.11	-2.02	2	2	0	2100	2100	0
2/26/2025 19:55	65602	QVIL_T2	1	6	5	0.2	0.2	0	0	0	0	0	0	0	0	0
2/26/2025 19:55	46004	BERW_T2	0	2	2	0	0.5	0.5	-0.57	-0.61	0	0	0	0	0	0
2/26/2025 19:55	67605	WARW_T1	10	12	2	0.18	0.18	0	-0.9	-0.93	0	0	0	0	0	0
2/26/2025 19:55	44502	HAMI_T2	1	1	0	3.5	3.4	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:55	67203	TEHI_T1	0	1	1	0	0	0	2.54	2.58	2	2	0	1500	1500	0
2/26/2025 19:55	64101	REFR_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
2/26/2025 19:55	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:55	65603	QVIL_T2	2	2	0	0.1	0.25	0.15	0.03	0.06	0	0	0	0	0	0
2/26/2025 19:55	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:55	54504	ENOL_T2	0	0	0	0	0	0	-1.11	-1.12	1	1	0	600	600	0
2/26/2025 19:55	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:55	57201	ROSS_T1	0	0	0	0	0	0	-0.64	-0.6	0	0	0	0	0	0
2/26/2025 19:56	54505	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:56	13902	SEID_T1	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
2/26/2025 19:56	64204	KINZ_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
2/26/2025 19:56	62101	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:56	64203	KINZ_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
2/26/2025 19:56	14802	TREI_T2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
2/26/2025 19:56	65602	QVIL_T2	1	6	5	0.2	0.2	0	0.08	0.05	0	0	0	0	0	0
2/26/2025 19:56	17401	FOHI_T1	0	0	0	0	0	0	-1	-0.99	0	0	0	0	0	0
2/26/2025 19:56	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:56	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:56	48901	FOSP_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
2/26/2025 19:56	10801	CHHI_T1	0	0	0	0	0	0	-3.24	-3.3	2	2	0	1200	1200	0
2/26/2025 19:56	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:56	63804	HEMP_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
2/26/2025 19:56	54503	ENOL_T2	0	0	0	0	0	0	-0.43	-0.42	1	1	0	600	600	0
2/26/2025 19:56	42501	ALTA_T2	0	0	0	0	0	0	0.63	0.57	0	0	0	0	0	0
2/26/2025 19:56	23001	SAJO_T1	0	0	0	0	0	0	-0.43	-0.49	0	0	0	0	0	0
2/26/2025 19:56	65603	QVIL_T2	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
2/26/2025 19:56	40505	CRES_T1	0	0	0	0	0	0	0.76	0.8	0	0	0	0	0	0
2/26/2025 19:56	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:56	62105	ELAN_T1	3	1	-2	0.1	0.1	0	0.39	0.38	0	0	0	0	0	0
2/26/2025 19:56	46004	BERW_T2	0	2	2	0	0.5	0.5	-1.14	-1.22	0	0	0	0	0	0
2/26/2025 19:56	63803	HEMP_T1	0	0	0	0	0	0	0.58	0.51	0	0	0	0	0	0
2/26/2025 19:56	46203	DANV_T2	211	186	-25	0.7	0.66	-0.04	-1.06	-1.05	0	0	0	0	0	0
2/26/2025 19:56	64201	KINZ_T1	4	2	-2	0.35	0.7	0.35	0	0	0	0	0	0	0	0
2/26/2025 19:56	65601	QVIL_T2	3	14	11	0.1	0.15	0.05	0	0	0	0	0	0	0	0
2/26/2025 19:56	64101	REFR_T1	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
2/26/2025 19:56	63501	HEID_TBK1-2	1	1	0	0.2	0.3	0.1	0.9	0.83	0	0	0	0	0	0
2/26/2025 19:56	67901	WNHO_T2	33	28	-5	0.22	0.19	-0.03	-0.08	-0.07	0	0	0	0	0	0
2/26/2025 19:56	57401	SPAN_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
2/26/2025 19:56	10101	ALLE_T3	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
2/26/2025 19:56	62103	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/26/2025 19:56	57403	SPAN_T1	0	0	0	0	0	0	-0.05	0.01	0	0	0	0	0	0
2/26/2025 19:57	57401	SPAN_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
2/26/2025 19:57	57403	SPAN_T1	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
2/26/2025 19:57	63802	HEMP_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
2/26/2025 19:57	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:57	67901	WNHO_T2	33	28	-5	0.22	0.19	-0.03	-0.08	-0.07	0	0	0	0	0	0
2/26/2025 19:57	45501	DERR_T2	2	3	1	0.55	0.1	-0.45	0.66	0.84	4	4	0	3600	3600	0
2/26/2025 19:57	61304	EARL_T1	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
2/26/2025 19:57	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
2/26/2025 19:57	40802	EXCH_T2	0	0	0	0	0	0	-0.25	-0.29	0	0	0	0	0	0
2/26/2025 19:57	62106	ELAN_T1	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
2/26/2025 19:57	63804	HEMP_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
2/26/2025 19:57	62101	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/26/2025 19:57	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:57	65601	QVIL_T2	3	14	11	0.1	0.15	0.05	-1.33	-1.3	1	1	0	900	900	0
2/26/2025 19:57	65602	QVIL_T2	1	6	5	0.2	0.2	0	0	0	0	0	0	0	0	0
2/26/2025 19:57	46901	MNTG_T2	0	0	0	0	0	0	-0.24	-0.06	1	1	0	1200	1200	0
2/26/2025 19:57	61701	ELIZ_T1	1	1	0	5.7	4.7	-1	0	0	0	0	0	0	0	0
2/26/2025 19:57	45702	LIND_T2	1	1	0	1	1	0	-0.6	-0.59	0	0	0	0	0	0
2/26/2025 19:57	62105	ELAN_T1	3	1	-2	0.1	0.1	0	0.39	0.38	0	0	0	0	0	0
2/26/2025 19:57	40505	CRES_T1	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
2/26/2025 19:57	40801	EXCH_T2	0	0	0	0	0	0	-0.56	-0.56	1	1	0	1200	1200	0
2/26/2025 19:57	61803	EELI_T2	0	0	0	0	0	0	0.76	0.74	0	0	0	0	0	0
2/26/2025 19:57	62103	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/26/2025 19:57	65603	QVIL_T2	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
2/26/2025 19:57	61703	ELIZ_T1	0	0	0	0	0	0	-2.1	-1.97	1	1	0	900	900	0
2/26/2025 19:57	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:58	48901	FOSP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:58	61301	EARL_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
2/26/2025 19:58	63401	HONY_T1	0	0	0	0	0	0	0.42	0.54	0	0	0	0	0	0
2/26/2025 19:58	15203	SFAR_T2	0	0	0	0	0	0	-1.39	-1.36	0	0	0	0	0	0
2/26/2025 19:58	46102	MACI_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
2/26/2025 19:58	11301	EMMA_T1	0	0	0	0	0	0	0.79	0.91	0	0	0	0	0	0
2/26/2025 19:58	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:58	14802	TREI_T2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
2/26/2025 19:58	60701	BREC_T1	193	256	63	0.17	0.21	0.04	-0.58	-0.59	1	1	0	600	600	0
2/26/2025 19:58	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:58	61505	EPET_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:58	43202	MVIL_T2	0	0	0	0	0	0	-0.7	-0.72	0	0	0	0	0	0
2/26/2025 19:58	42601	TUSC_T1	9	11	2	1.1	1.43	0.33	0.8	0.74	1	1	0	600	600	0
2/26/2025 19:58	63803	HEMP_T1	0	0	0	0	0	0	0.58	0.51	0	0	0	0	0	0
2/26/2025 19:58	57205	ROSS_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
2/26/2025 19:58	65503	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:58	41601	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:58	63804	HEMP_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
2/26/2025 19:58	10805	CHHI_T2	1	1	0	7.9	7.8	-0.1	-1.19	-1.32	1	1	0	600	600	0
2/26/2025 19:58	47201	FAXO_T2	0	0	0	0	0	0	-2.31	-2.31	1	1	0	1200	1200	0
2/26/2025 19:58	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:59	62105	ELAN_T1	3	1	-2	0.1	0.1	0	0.39	0.38	0	0	0	0	0	0
2/26/2025 19:59	66505	SMAN_T2	3	3	0	1.17	1.4	0.23	0	0	0	0	0	0	0	0
2/26/2025 19:59	62103	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/26/2025 19:59	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 19:59	62101	ELAN_T1	1	1	0	0.2	0.1	-0.1	2.87	2.83	0	0	0	0	0	0
2/26/2025 20:00	60803	BUCK_T1	1	4	3	0.1	0.15	0.05	0	0	0	0	0	0	0	0
2/26/2025 20:00	65602	QVIL_T2	5	7	2	0.18	0.3	0.12	0	0	0	0	0	0	0	0
2/26/2025 20:00	60701	BREC_T1	255	156	-99	0.21	0.15	-0.06	-1.17	-1.19	2	2	0	1200	1200	0
2/26/2025 20:00	61505	EPET_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
2/26/2025 20:00	62106	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 20:00	60902	DONG_T2	0	0	0	0	0	0	0.42	0.44	0	0	0	0	0	0
2/26/2025 20:00	64202	KINZ_T1	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
2/26/2025 20:00	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
2/26/2025 20:00	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 20:00	60801	BUCK_T1	7	12	5	0.1	0.13	0.03	0	0	0	0	0	0	0	0
2/26/2025 20:00	61703	ELIZ_T1	0	0	0	0	0	0	-6.3	-5.92	3	3	0	2700	2700	0
2/26/2025 20:00	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 20:00	64204	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/26/2025 20:00	66505	SMAN_T2	3	3	0	1.4	1.37	-0.03	0	0	0	0	0	0	0	0
2/26/2025 20:00	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 20:00	60201	ATGL_T2	0	0	0	0	0	0	-0.09	-0.14	0	0	0	0	0	0
2/26/2025 20:00	62105	ELAN_T1	0	37	37	0	0.11	0.11	0	0	0	0	0	0	0	0
2/26/2025 20:00	67201	TEHI_T1	0	0	0	0	0	0	-0.21	-0.28	1	1	0	900	900	0
2/26/2025 20:00	65603	QVIL_T2	2	3	1	0.1	0.2	0.1	0.03	0.06	0	0	0	0	0	0
2/26/2025 20:00	64201	KINZ_T1	2	2	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
2/26/2025 20:00	65601	QVIL_T2	3	22	19	0.1	0.16	0.06	0	0	0	0	0	0	0	0
2/26/2025 20:00	62103	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/26/2025 20:00	46901	MNTG_T2	0	0	0	0	0	0	-0.24	-0.06	1	1	0	1200	1200	0
2/26/2025 20:00	62101	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/26/2025 20:00	61701	ELIZ_T1	1	1	0	4.6	4.7	0.1	0	0	0	0	0	0	0	0
2/26/2025 20:01	62101	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/26/2025 20:01	62102	ELAN_T1	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
2/26/2025 20:01	60801	BUCK_T1	7	12	5	0.1	0.13	0.03	-0.27	-0.26	0	0	0	0	0	0
2/26/2025 20:01	64701	LITI_T1	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
2/26/2025 20:01	61502	EPET_T1	0	0	0	0	0	0	-1.17	-1.06	0	0	0	0	0	0
2/26/2025 20:01	61703	ELIZ_T1	0	0	0	0	0	0	-2.1	-1.97	1	1	0	900	900	0
2/26/2025 20:01	62106	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/26/2025 20:01	63804	HEMP_T1	1	1	0	5.7	5.8	0.1	0.75	0.72	0	0	0	0	0	0
2/26/2025 20:01	62103	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/26/2025 20:01	65502	MOJO_T2	0	0	0	0	0	0	-1.05	-1.09	0	0	0	0	0	0
2/26/2025 20:01	67605	WARW_T1	11	9	-2	0.19	0.23	0.04	-0.9	-0.93	0	0	0	0	0	0
2/26/2025 20:01	60803	BUCK_T1	1	4	3	0.1	0.15	0.05	0	0	0	0	0	0	0	0
2/26/2025 20:01	61701	ELIZ_T1	1	1	0	4.6	4.7	0.1	0	0	0	0	0	0	0	0
2/26/2025 20:01	62105	ELAN_T1	0	37	37	0	0.11	0.11	0.39	0.38	0	0	0	0	0	0
2/26/2025 20:02	64204	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
2/26/2025 20:02	61701	ELIZ_T1	1	1	0	4.6	4.7	0.1	0	0	0	0	0	0	0	0
2/26/2025 20:02	18001	ZION_T1	2	2	0	9.35	9.3	-0.05	0	0	0	0	0	0	0	0
2/26/2025 20:02	64201	KINZ_T1	2	2	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
2/26/2025 20:02	47203	FAXO_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
2/26/2025 20:02	63501	HEID_TBK1-2	1	2	1	0.2	0.8	0.6	0.45	0.41	0	0	0	0	0	0
2/26/2025 20:02	63802	HEMP_T1	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
2/26/2025 20:02	61801	EELI_T2	0	0	0	0	0	0	-0.47	-0.44	0	0	0	0	0	0
2/26/2025 20:02	63804	HEMP_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
2/26/2025 20:02	64203	KINZ_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
2/26/2025 20:03	60803	BUCK_T1	1	4	3	0.1	0.15	0.05	0	0	0	0	0	0	0	0
2/26/2025 20:03	67502	WEWI_T2	41	58	17	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
2/26/2025 20:03	60801	BUCK_T1	7	12	5	0.1	0.13	0.03	-0.27	-0.26	0	0	0	0	0	0
2/26/2025 20:03	63804	HEMP_T1	1	1	0	5.7	5.8	0.1	0.75	0.72	0	0	0	0	0	0
2/26/2025 20:03	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 20:05	65601	QVIL_T2	3	22	19	0.1	0.16	0.06	0	0	0	0	0	0	0	0
2/26/2025 20:05	65602	QVIL_T2	5	7	2	0.18	0.3	0.12	0	0	0	0	0	0	0	0
2/26/2025 20:05	65603	QVIL_T2	2	3	1	0.1	0.2	0.1	0.03	0.06	0	0	0	0	0	0
2/26/2025 20:06	65602	QVIL_T2	5	7	2	0.18	0.3	0.12	0	0	0	0	0	0	0	0
2/26/2025 20:06	65603	QVIL_T2	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/26/2025 20:06	65601	QVIL_T2	3	22	19	0.1	0.16	0.06	0	0	0	0	0	0	0	0
2/26/2025 20:08	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 20:14	60701	BREC_T1	255	156	-99	0.21	0.15	-0.06	-0.59	-0.59	1	1	0	600	600	0
2/26/2025 20:15	17805	GILB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 23:02	41204	KENM_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
2/26/2025 23:03	45802	HEGI_T2	15	11	-4	0.31	0.36	0.05	0	0	0	0	0	0	0	0
2/26/2025 23:07	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2025 23:07	48901	FOSP_T2	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
2/26/2025 23:08	60701	BREC_T1	1	57	56	0.1	0.12	0.02	-0.66	-0.67	1	1	0	600	600	0
2/26/2025 23:08	45501	DERR_T2	0	0	0	0	0	0	-0.58	-0.58	2	2	0	1800	1800	0
2/26/2025 23:31	25603	ARRO_T1	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
2/26/2025 23:48	67603	WARW_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
2/26/2025 23:48	67605	WARW_T1	18	23	5	0.4	0.53	0.13	0	0	0	0	0	0	0	0
2/26/2025 23:55	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 8:37	53803	MBRG_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
2/27/2025 8:40	53802	MBRG_T2	0	0	0	0	0	0	1.09	1.16	0	0	0	0	0	0
2/27/2025 8:41	53803	MBRG_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
2/27/2025 9:00	52403	GRPA_T2	0	0	0	0	0	0	-0.5	-0.47	0	0	0	0	0	0
2/27/2025 9:00	53903	HALI_T2	2	2	0	1.35	1.2	-0.15	0	0	0	0	0	0	0	0
2/27/2025 9:00	53902	HALI_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
2/27/2025 9:00	53901	HALI_T2	1	1	0	0.9	1	0.1	-1.46	-1.5	0	0	0	0	0	0
2/27/2025 9:00	11203	ELHE_T1	0	0	0	0	0	0	1.16	1.13	0	0	0	0	0	0
2/27/2025 9:00	42501	ALTA_T2	0	0	0	0	0	0	-0.05	-0.06	1	1	0	600	600	0
2/27/2025 9:00	52402	GRPA_T2	1	6	5	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
2/27/2025 9:00	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 9:00	62105	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 9:00	67604	WARW_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
2/27/2025 9:00	63804	HEMP_T1	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
2/27/2025 9:00	63803	HEMP_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
2/27/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
2/27/2025 9:00	62106	ELAN_T1	0	0	0	0	0	0	1.18	1	0	0	0	0	0	0
2/27/2025 9:00	46602	LACR_T1	0	0	0	0	0	0	-0.67	-0.71	0	0	0	0	0	0
2/27/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
2/27/2025 9:07	53803	MBRG_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
2/27/2025 9:09	53803	MBRG_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
2/27/2025 9:17	54501	ENOL_T2	0	0	0	0	0	0	-1.09	-1.11	1	1	0	600	600	0
2/27/2025 9:17	54502	ENOL_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
2/27/2025 9:17	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
2/27/2025 9:20	54501	ENOL_T2	0	0	0	0	0	0	-1.09	-1.11	1	1	0	600	600	0
2/27/2025 9:20	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
2/27/2025 9:20	54502	ENOL_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
2/27/2025 9:32	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 9:33	40101	HUNT_T2	0	1	1	0	0.1	0.1	-1.17	-1.1	0	0	0	0	0	0
2/27/2025 9:34	58102	NEKI_T1	1	1	0	1.8	1.8	0	-0.96	-1.06	1	1	0	1200	1200	0
2/27/2025 9:37	52402	GRPA_T2	2	2	0	0.55	0.35	-0.2	0	0	0	0	0	0	0	0
2/27/2025 9:37	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/27/2025 9:37	52403	GRPA_T2	0	0	0	0	0	0	-0.52	-0.57	0	0	0	0	0	0
2/27/2025 9:39	55002	NEWP_T1	5	6	1	0.46	0.43	-0.03	-0.25	-0.27	0	0	0	0	0	0
2/27/2025 9:40	57201	ROSS_T1	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
2/27/2025 9:42	57201	ROSS_T1	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
2/27/2025 9:44	57205	ROSS_T1	0	0	0	0	0	0	-0.9	-0.93	1	1	0	900	900	0
2/27/2025 9:45	57205	ROSS_T1	0	1	1	0	0.2	0.2	-0.9	-0.93	1	1	0	900	900	0
2/27/2025 9:55	65503	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 9:55	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 10:00	24202	PROV_T4	0	2	2	0	0.1	0.1	-0.77	-0.8	1	1	0	1200	1200	0
2/27/2025 10:03	60801	BUCK_T1	0	0	0	0	0	0	0.03	0.1	0	0	0	0	0	0
2/27/2025 10:03	40801	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 10:03	40802	EXCH_T2	0	0	0	0	0	0	-0.49	-0.12	0	0	0	0	0	0
2/27/2025 10:06	40802	EXCH_T2	0	0	0	0	0	0	-0.24	0.29	0	0	0	0	0	0
2/27/2025 10:06	40801	EXCH_T2	0	1	1	0	0.1	0.1	-0.58	-0.5	1	1	0	1200	1200	0
2/27/2025 10:07	61801	EELI_T2	2	0	-2	0.55	0	-0.55	0	0	0	0	0	0	0	0
2/27/2025 10:07	61802	EELI_T2	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
2/27/2025 10:07	53801	MBRG_T2	0	0	0	0	0	0	-1.93	-1.92	0	0	0	0	0	0
2/27/2025 10:10	64101	REFR_T1	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
2/27/2025 10:12	45701	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 10:12	45702	LIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 10:17	61002	DONV_T2	0	0	0	0	0	0	-1.36	-1.36	2	2	0	1200	1200	0
2/27/2025 10:18	11202	ELHE_T2	0	0	0	0	0	0	0.36	0.38	1	1	0	1200	1200	0
2/27/2025 10:20	63501	HEID_TBK1-2	0	1	1	0	1	1	0.14	0.13	1	1	0	900	900	0
2/27/2025 10:21	28102	TWLA_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
2/27/2025 10:26	54201	PENN_T1	9	10	1	0.68	0.68	0	0	0.02	0	0	0	0	0	0
2/27/2025 10:26	54203	PENN_T1	18	18	0	1.06	1.02	-0.04	0	0	0	0	0	0	0	0
2/27/2025 10:27	54203	PENN_T1	18	18	0	1.06	1.02	-0.04	-0.05	-0.07	0	0	0	0	0	0
2/27/2025 10:27	54201	PENN_T1	9	10	1	0.68	0.68	0	0	0	0	0	0	0	0	0
2/27/2025 10:28	54203	PENN_T1	18	18	0	1.06	1.02	-0.04	-0.05	-0.07	0	0	0	0	0	0
2/27/2025 10:28	54201	PENN_T1	9	10	1	0.68	0.68	0	0	0	0	0	0	0	0	0
2/27/2025 10:33	41801	GOCI_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/27/2025 10:34	41801	GOCI_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/27/2025 10:34	46001	BERW_T1	0	0	0	0	0	0	0.86	0.86	0	0	0	0	0	0
2/27/2025 10:34	46004	BERW_T2	0	0	0	0	0	0	-0.26	-0.22	0	0	0	0	0	0
2/27/2025 10:35	52402	GRPA_T2	2	3	1	0.8	0.83	0.03	0	0	0	0	0	0	0	0
2/27/2025 10:35	52401	GRPA_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
2/27/2025 10:36	41801	GOCI_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/27/2025 10:37	62102	ELAN_T1	0	0	0	0	0	0	0.57	0.62	0	0	0	0	0	0
2/27/2025 10:37	52402	GRPA_T2	2	3	1	0.8	0.83	0.03	0	0	0	0	0	0	0	0
2/27/2025 10:37	52401	GRPA_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
2/27/2025 10:42	41801	GOCI_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/27/2025 10:43	54502	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/27/2025 10:43	54503	ENOL_T2	0	0	0	0	0	0	-0.44	-0.44	1	1	0	600	600	0
2/27/2025 10:43	54505	ENOL_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
2/27/2025 10:46	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 10:46	54502	ENOL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/27/2025 10:46	10103	ALLE_T3	1	0	-1	7.3	0	-7.3	0	0	0	0	0	0	0	0
2/27/2025 10:46	10101	ALLE_T3	0	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0
2/27/2025 10:46	54505	ENOL_T2	1	0	-1	1	0.5	-0.5	0	0	0	0	0	0	0	0
2/27/2025 10:46	54503	ENOL_T2	0	0	0	0	0	0	-0.44	-0.44	1	1	0	600	600	0
2/27/2025 10:51	40101	HUNT_T2	0	0	0	0	0	0	-1.14	-1.11	0	0	0	0	0	0
2/27/2025 10:54	43202	MVIL_T2	30	33	3	0.17	0.18	0.01	-0.57	-0.53	0	0	0	0	0	0
2/27/2025 10:57	43202	MVIL_T2	30	33	3	0.17	0.18	0.01	-0.57	-0.53	0	0	0	0	0	0
2/27/2025 10:58	28102	TWLA_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
2/27/2025 11:01	46002	BERW_T2	0	0	0	0	0	0	-0.42	-0.56	1	1	0	900	900	0
2/27/2025 11:01	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 11:05	64201	KINZ_T1	0	1	1	0	0.3	0.3	-0.76	-0.8	3	3	0	1500	1500	0
2/27/2025 11:05	64204	KINZ_T1	21	2	-19	0.29	0.3	0.01	0	0	0	0	0	0	0	0
2/27/2025 11:05	64202	KINZ_T1	3	0	-3	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/27/2025 11:08	64202	KINZ_T1	3	0	-3	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/27/2025 11:08	64201	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/27/2025 11:08	64204	KINZ_T1	21	2	-19	0.29	0.3	0.01	0	0	0	0	0	0	0	0
2/27/2025 11:09	64201	KINZ_T1	0	1	1	0	0.3	0.3	-0.8	-0.8	3	3	0	1500	1500	0
2/27/2025 11:09	64202	KINZ_T1	3	0	-3	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/27/2025 11:09	64204	KINZ_T1	21	2	-19	0.29	0.3	0.01	0	0	0	0	0	0	0	0
2/27/2025 11:10	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 11:11	55001	NEWP_T1	0	0	0	0	0	0	-0.43	-0.41	0	0	0	0	0	0
2/27/2025 11:11	55002	NEWP_T1	7	7	0	1.09	0.87	-0.22	-0.23	-0.24	0	0	0	0	0	0
2/27/2025 11:12	55002	NEWP_T1	7	7	0	1.09	0.87	-0.22	-0.46	-0.48	0	0	0	0	0	0
2/27/2025 11:14	55002	NEWP_T1	7	7	0	1.09	0.87	-0.22	-0.46	-0.48	0	0	0	0	0	0
2/27/2025 11:17	53601	DALM_T2	1	1	0	0.3	0.8	0.5	0.08	0.04	0	0	0	0	0	0
2/27/2025 11:19	20603	GRWO_T2	0	0	0	0	0	0	-0.65	-0.68	1	1	0	900	900	0
2/27/2025 11:19	54601	SUMM_T2	4	3	-1	0.3	0.27	-0.03	-1.86	-1.88	2	2	0	2100	2100	0
2/27/2025 11:21	46802	HEPB_T1	1	2	1	1.8	1	-0.8	-1.34	-1.35	0	0	0	0	0	0
2/27/2025 11:23	55002	NEWP_T1	6	7	1	0.92	0.96	0.04	0	0	0	0	0	0	0	0
2/27/2025 11:23	50623	CCTY_T2	6	6	0	6.52	6.38	-0.14	0	0	0	0	0	0	0	0
2/27/2025 11:23	50625	CCTY_T2	5	4	-1	4.26	5.2	0.94	0	0	0	0	0	0	0	0
2/27/2025 11:23	50624	CCTY_T2	2	2	0	6.7	6.7	0	0	0	0	0	0	0	0	0
2/27/2025 11:23	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 11:23	55001	NEWP_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
2/27/2025 11:24	45702	LIND_T2	1	1	0	0.5	2	1.5	-1.13	-1.13	0	0	0	0	0	0
2/27/2025 11:24	45701	LIND_T2	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/27/2025 11:24	55001	NEWP_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
2/27/2025 11:24	47101	MARL_T1	0	0	0	0	0	0	-1.18	-1.14	0	0	0	0	0	0
2/27/2025 11:24	55002	NEWP_T1	6	7	1	0.92	0.96	0.04	0	0	0	0	0	0	0	0
2/27/2025 11:34	46004	BERW_T2	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
2/27/2025 11:36	20603	GRWO_T2	0	0	0	0	0	0	-0.65	-0.63	1	1	0	900	900	0
2/27/2025 11:37	64201	KINZ_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
2/27/2025 11:37	64204	KINZ_T1	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
2/27/2025 11:37	64202	KINZ_T1	0	0	0	0	0	0	0.61	0.8	0	0	0	0	0	0
2/27/2025 11:38	25404	LAHA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 11:38	25402	LAHA_T2	2	4	2	0.35	0.67	0.32	-0.3	-0.73	0	0	0	0	0	0
2/27/2025 11:41	47101	MARL_T1	0	0	0	0	0	0	-1.14	-1.2	0	0	0	0	0	0
2/27/2025 11:43	59101	WALK_T2	0	0	0	0	0	0	3.37	3.42	2	2	0	1200	1200	0
2/27/2025 11:43	59102	WALK_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 11:44	54203	PENN_T1	18	18	0	0.97	1.26	0.29	0	0	0	0	0	0	0	0
2/27/2025 11:44	54201	PENN_T1	8	8	0	0.83	0.84	0.01	0.06	0.03	0	0	0	0	0	0
2/27/2025 11:45	59101	WALK_T2	0	0	0	0	0	0	1.69	1.71	1	1	0	600	600	0
2/27/2025 11:45	59102	WALK_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 11:46	10801	CHHI_T1	0	0	0	0	0	0	-1.37	-1.35	2	2	0	1500	1500	0
2/27/2025 11:49	47202	FAXO_T2	0	0	0	0	0	0	-2.33	-2.33	0	0	0	0	0	0
2/27/2025 11:50	52403	GRPA_T2	27	17	-10	0.62	0.83	0.21	0	0	0	0	0	0	0	0
2/27/2025 11:50	52401	GRPA_T2	2	1	-1	0.3	0.7	0.4	-0.86	-0.85	0	0	0	0	0	0
2/27/2025 11:50	52402	GRPA_T2	6	39	33	1.15	0.39	-0.76	0	0	0	0	0	0	0	0
2/27/2025 11:51	47203	FAXO_T2	0	0	0	0	0	0	-0.36	-0.42	0	0	0	0	0	0
2/27/2025 11:54	52403	GRPA_T2	27	17	-10	0.62	0.83	0.21	0	0	0	0	0	0	0	0
2/27/2025 11:54	52402	GRPA_T2	6	39	33	1.15	0.39	-0.76	0	0	0	0	0	0	0	0
2/27/2025 11:54	52401	GRPA_T2	2	1	-1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
2/27/2025 11:55	52402	GRPA_T2	6	39	33	1.15	0.39	-0.76	0	0	0	0	0	0	0	0
2/27/2025 11:55	52401	GRPA_T2	2	1	-1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
2/27/2025 11:55	52403	GRPA_T2	27	17	-10	0.62	0.83	0.21	-0.56	-0.55	0	0	0	0	0	0
2/27/2025 11:58	67401	WAKE_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/27/2025 11:58	67402	WAKE_T2	1	1	0	0.1	0.1	0	1.09	1.12	0	0	0	0	0	0
2/27/2025 11:59	67605	WARW_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
2/27/2025 11:59	67603	WARW_T1	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
2/27/2025 12:00	67402	WAKE_T2	1	1	0	0.1	0.1	0	1.09	1.12	0	0	0	0	0	0
2/27/2025 12:04	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 12:04	54504	ENOL_T2	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
2/27/2025 12:04	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
2/27/2025 12:09	64904	MILL_T1	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
2/27/2025 12:09	58201	NEWV_T1	1	2	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/27/2025 12:11	67201	TEHI_T1	0	0	0	0	0	0	0.5	0.54	1	1	0	900	900	0
2/27/2025 12:11	67203	TEHI_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 12:11	47402	PENS_T1	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
2/27/2025 12:11	47401	PENS_T1	0	6	6	0	0.57	0.57	0	0	0	0	0	0	0	0
2/27/2025 12:11	47403	PENS_T1	1	30	29	1.4	0.35	-1.05	0	0	0	0	0	0	0	0
2/27/2025 12:12	66903	SHIL_T2	0	0	0	0	0	0	-1.27	-1.27	0	0	0	0	0	0
2/27/2025 12:12	66901	SHIL_T2	14	19	5	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
2/27/2025 12:13	54201	PENN_T1	8	11	3	0.84	0.88	0.04	0.06	0.04	0	0	0	0	0	0
2/27/2025 12:13	54203	PENN_T1	18	18	0	1.26	1.34	0.08	0	0	0	0	0	0	0	0
2/27/2025 12:14	66901	SHIL_T2	14	19	5	0.17	0.13	-0.04	-1.44	-1.41	1	1	0	1200	1200	0
2/27/2025 12:15	57403	SPAN_T1	1	18	17	0.1	0.22	0.12	-0.01	-0.05	0	0	0	0	0	0
2/27/2025 12:15	42701	AUGU_T1	1	1	0	0.5	1.1	0.6	0	0	2	2	0	1800	1800	0
2/27/2025 12:15	57401	SPAN_T1	2	2	0	1.25	1.2	-0.05	0	0	0	0	0	0	0	0
2/27/2025 12:15	43301	WATS_T2	0	0	0	0	0	0	0.19	0.14	0	0	0	0	0	0
2/27/2025 12:16	42701	AUGU_T1	1	1	0	0.5	1.1	0.6	0	0	4	4	0	3600	3600	0
2/27/2025 12:16	43301	WATS_T2	0	0	0	0	0	0	0.39	0.29	0	0	0	0	0	0
2/27/2025 12:16	57401	SPAN_T1	2	2	0	1.25	1.2	-0.05	0	0	0	0	0	0	0	0
2/27/2025 12:16	57403	SPAN_T1	1	18	17	0.1	0.22	0.12	0	-0.02	0	0	0	0	0	0
2/27/2025 12:17	43301	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 12:17	42701	AUGU_T1	1	1	0	0.5	1.1	0.6	0	0	2	2	0	1800	1800	0
2/27/2025 12:19	42701	AUGU_T1	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
2/27/2025 12:19	43301	WATS_T2	0	0	0	0	0	0	0.19	0.14	0	0	0	0	0	0
2/27/2025 12:20	43301	WATS_T2	0	0	0	0	0	0	0.19	0.14	0	0	0	0	0	0
2/27/2025 12:22	52401	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/27/2025 12:22	52402	GRPA_T2	35	78	43	0.39	0.32	-0.07	0	0	0	0	0	0	0	0
2/27/2025 12:22	52403	GRPA_T2	9	10	1	0.7	0.65	-0.05	-1.24	-1.2	0	0	0	0	0	0
2/27/2025 12:24	58401	MORO_T1	1	1	0	0.1	0.1	0	-1.17	-1.16	1	1	0	600	600	0
2/27/2025 12:24	52403	GRPA_T2	9	10	1	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
2/27/2025 12:24	52401	GRPA_T2	1	1	0	0.6	0.5	-0.1	-0.92	-0.92	0	0	0	0	0	0
2/27/2025 12:24	52402	GRPA_T2	35	78	43	0.39	0.32	-0.07	0	0	0	0	0	0	0	0
2/27/2025 12:26	52403	GRPA_T2	9	10	1	0.7	0.65	-0.05	-0.62	-0.6	0	0	0	0	0	0
2/27/2025 12:26	52401	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/27/2025 12:26	43202	MVIL_T2	60	68	8	0.5	0.53	0.03	-0.6	-0.59	0	0	0	0	0	0
2/27/2025 12:26	52402	GRPA_T2	35	78	43	0.39	0.32	-0.07	0	0	0	0	0	0	0	0
2/27/2025 12:26	58401	MORO_T1	1	1	0	0.1	0.1	0	-1.17	-1.16	1	1	0	600	600	0
2/27/2025 12:27	52403	GRPA_T2	9	10	1	0.7	0.65	-0.05	-0.62	-0.6	0	0	0	0	0	0
2/27/2025 12:27	43202	MVIL_T2	60	68	8	0.5	0.53	0.03	-0.6	-0.59	0	0	0	0	0	0
2/27/2025 12:27	52402	GRPA_T2	35	78	43	0.39	0.32	-0.07	0	0	0	0	0	0	0	0
2/27/2025 12:27	52401	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
2/27/2025 12:29	58401	MORO_T1	1	1	0	0.1	0.1	0	-1.17	-1.16	1	1	0	600	600	0
2/27/2025 12:32	42701	AUGU_T1	0	1	1	0	1.1	1.1	0	0	2	2	0	1800	1800	0
2/27/2025 12:32	43402	BENT_T1	5	83	78	0.52	0.3	-0.22	-0.93	-0.93	1	1	0	900	900	0
2/27/2025 12:34	48901	FOSP_T2	0	0	0	0	0	0	-0.21	-0.2	2	2	0	1200	1200	0
2/27/2025 12:34	48902	FOSP_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/27/2025 12:34	42701	AUGU_T1	0	1	1	0	1.1	1.1	0	0	2	2	0	1800	1800	0
2/27/2025 12:35	41001	LAUR_T2	3	15	12	1.3	0.18	-1.12	0	0	0	0	0	0	0	0
2/27/2025 12:35	48901	FOSP_T2	0	0	0	0	0	0	-0.21	-0.2	2	2	0	1200	1200	0
2/27/2025 12:35	41002	LAUR_T2	5	17	12	0.5	0.24	-0.26	-1.03	-1.03	0	0	0	0	0	0
2/27/2025 12:35	48902	FOSP_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/27/2025 12:37	48902	FOSP_T2	0	1	1	0	0.3	0.3	0.46	0.47	0	0	0	0	0	0
2/27/2025 12:38	48901	FOSP_T2	0	0	0	0	0	0	-0.1	-0.02	1	1	0	600	600	0
2/27/2025 12:38	48902	FOSP_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/27/2025 12:39	64704	LITI_T1	0	0	0	0	0	0	1.29	1.56	0	0	0	0	0	0
2/27/2025 12:40	47401	PENS_T1	4	6	2	0.73	0.95	0.22	0.91	0.77	0	0	0	0	0	0
2/27/2025 12:40	47402	PENS_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
2/27/2025 12:40	47403	PENS_T1	6	1	-5	0.3	2.2	1.9	0	0	0	0	0	0	0	0
2/27/2025 12:41	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-1.16	-1.12	1	1	0	600	600	0
2/27/2025 12:42	64701	LITI_T1	0	0	0	0	0	0	0.32	0.46	0	0	0	0	0	0
2/27/2025 12:43	47403	PENS_T1	6	1	-5	0.3	2.2	1.9	0	0	0	0	0	0	0	0
2/27/2025 12:43	47402	PENS_T1	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
2/27/2025 12:43	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-1.16	-1.12	1	1	0	600	600	0
2/27/2025 12:43	47401	PENS_T1	4	6	2	0.73	0.95	0.22	0.91	0.77	0	0	0	0	0	0
2/27/2025 12:44	14801	TREI_T2	0	5	5	0	0.2	0.2	0.4	0.45	0	0	0	0	0	0
2/27/2025 12:44	14802	TREI_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
2/27/2025 12:46	41602	CLEV_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
2/27/2025 12:46	41601	CLEV_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/27/2025 12:46	43402	BENT_T1	65	83	18	0.27	0.3	0.03	-0.93	-0.95	1	1	0	900	900	0
2/27/2025 12:47	45501	DERR_T2	0	1	1	0	0.1	0.1	0.26	0.27	2	2	0	1800	1800	0
2/27/2025 12:47	41602	CLEV_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
2/27/2025 12:47	41601	CLEV_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/27/2025 12:48	45502	DERR_T2	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
2/27/2025 12:48	45501	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 12:49	41601	CLEV_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/27/2025 12:49	62106	ELAN_T1	0	0	0	0	0	0	1	0.85	0	0	0	0	0	0
2/27/2025 12:49	41602	CLEV_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
2/27/2025 12:49	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 12:49	62105	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 12:49	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 12:50	52401	GRPA_T2	1	2	1	0.4	0.1	-0.3	-0.92	-0.93	0	0	0	0	0	0
2/27/2025 12:50	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 12:50	52403	GRPA_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
2/27/2025 12:50	54502	ENOL_T2	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/27/2025 12:50	54504	ENOL_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/27/2025 12:50	54505	ENOL_T2	1	1	0	0.8	1	0.2	-0.65	-0.65	1	1	0	600	600	0
2/27/2025 12:50	52402	GRPA_T2	65	99	34	0.32	0.49	0.17	0	0	0	0	0	0	0	0
2/27/2025 12:52	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 12:53	41601	CLEV_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
2/27/2025 12:53	41602	CLEV_T1	1	1	0	0.7	0.2	-0.5	0	0	0	0	0	0	0	0
2/27/2025 12:57	57403	SPAN_T1	18	101	83	0.22	0.3	0.08	0	0	0	0	0	0	0	0
2/27/2025 12:57	57401	SPAN_T1	2	3	1	1.1	1.65	0.55	0	0	0	0	0	0	0	0
2/27/2025 12:58	67106	SPRI_T2	1	1	0	0	0	0	-1.33	-1.32	1	1	0	900	900	0
2/27/2025 12:58	52501	PROG_T1	0	1	1	0	0.3	0.3	0.5	0.49	1	1	0	300	300	0
2/27/2025 12:59	67106	SPRI_T2	1	1	0	0	0	0	-1.33	-1.32	1	1	0	900	900	0
2/27/2025 12:59	52501	PROG_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/27/2025 13:00	67106	SPRI_T2	1	1	0	0	0	0	-1.33	-1.32	1	1	0	900	900	0
2/27/2025 13:01	57401	SPAN_T1	2	2	0	1.5	1.65	0.15	0	0	0	0	0	0	0	0
2/27/2025 13:01	57403	SPAN_T1	65	144	79	0.34	0.29	-0.05	-0.01	-0.02	0	0	0	0	0	0
2/27/2025 13:01	46001	BERW_T1	0	0	0	0	0	0	0.76	0.71	0	0	0	0	0	0
2/27/2025 13:03	46001	BERW_T1	0	0	0	0	0	0	0.76	0.71	0	0	0	0	0	0
2/27/2025 13:05	52401	GRPA_T2	1	2	1	0.1	0.25	0.15	-0.93	-0.9	0	0	0	0	0	0
2/27/2025 13:05	52403	GRPA_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
2/27/2025 13:05	60201	ATGL_T2	0	0	0	0	0	0	0.05	0.12	0	0	0	0	0	0
2/27/2025 13:05	52402	GRPA_T2	5	101	96	0.84	0.48	-0.36	0	0	0	0	0	0	0	0
2/27/2025 13:06	46002	BERW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 13:06	46004	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 13:08	52006	LING_T2	2	3	1	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
2/27/2025 13:08	52002	LING_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
2/27/2025 13:08	52004	LING_T2	4	6	2	3.68	2.63	-1.05	0.2	0.22	0	0	0	0	0	0
2/27/2025 13:10	52004	LING_T2	4	6	2	3.68	2.63	-1.05	0.59	0.65	0	0	0	0	0	0
2/27/2025 13:10	52002	LING_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
2/27/2025 13:10	52006	LING_T2	2	3	1	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
2/27/2025 13:11	52503	PROG_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/27/2025 13:11	52502	PROG_T2	0	1	1	0	0.2	0.2	0.26	0.25	0	0	0	0	0	0
2/27/2025 13:12	57201	ROSS_T1	0	0	0	0	0	0	-0.4	-0.48	0	0	0	0	0	0
2/27/2025 13:12	52501	PROG_T1	1	2	1	0.3	0.25	-0.05	0.49	0.47	1	1	0	300	300	0
2/27/2025 13:12	57205	ROSS_T1	3	3	0	0.8	0.87	0.07	0	0	0	0	0	0	0	0
2/27/2025 13:12	52502	PROG_T2	0	1	1	0	0.2	0.2	0.26	0.25	0	0	0	0	0	0
2/27/2025 13:12	52503	PROG_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/27/2025 13:13	52501	PROG_T1	1	2	1	0.3	0.25	-0.05	0.49	0.47	1	1	0	300	300	0
2/27/2025 13:14	52006	LING_T2	2	3	1	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
2/27/2025 13:14	51304	WIND_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/27/2025 13:14	52002	LING_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
2/27/2025 13:14	51302	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 13:14	52502	PROG_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/27/2025 13:14	52501	PROG_T1	1	2	1	0.3	0.25	-0.05	0.98	0.94	2	2	0	600	600	0
2/27/2025 13:14	57201	ROSS_T1	0	0	0	0	0	0	-0.4	-0.48	0	0	0	0	0	0
2/27/2025 13:14	52503	PROG_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/27/2025 13:14	57205	ROSS_T1	3	3	0	0.8	0.87	0.07	0	0	0	0	0	0	0	0
2/27/2025 13:14	52004	LING_T2	4	6	2	3.68	2.63	-1.05	0	0	0	0	0	0	0	0
2/27/2025 13:15	52501	PROG_T1	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/27/2025 13:15	43402	BENT_T1	4	1	-3	0.33	0.4	0.07	-0.95	-0.94	1	1	0	900	900	0
2/27/2025 13:16	51306	WIND_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
2/27/2025 13:16	51302	WIND_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/27/2025 13:16	53903	HALI_T2	26	2	-24	0.63	1.6	0.97	0	0	0	0	0	0	0	0
2/27/2025 13:16	53901	HALI_T2	4	1	-3	0.35	1.2	0.85	-1.07	-1.09	0	0	0	0	0	0
2/27/2025 13:16	51304	WIND_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/27/2025 13:16	14802	TREI_T2	4	3	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/27/2025 13:16	53902	HALI_T2	5	1	-4	1.74	6.1	4.36	0	0	0	0	0	0	0	0
2/27/2025 13:16	14801	TREI_T2	5	4	-1	0.24	0.4	0.16	0.39	0.36	0	0	0	0	0	0
2/27/2025 13:17	43402	BENT_T1	4	1	-3	0.33	0.4	0.07	-0.95	-0.94	1	1	0	900	900	0
2/27/2025 13:17	51302	WIND_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/27/2025 13:17	51305	WIND_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
2/27/2025 13:17	51306	WIND_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
2/27/2025 13:17	51304	WIND_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/27/2025 13:17	51303	WIND_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/27/2025 13:17	51301	WIND_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 13:18	51305	WIND_T1	1	0	-1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
2/27/2025 13:18	14801	TREI_T2	5	4	-1	0.24	0.4	0.16	0.39	0.36	0	0	0	0	0	0
2/27/2025 13:18	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 13:18	51302	WIND_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/27/2025 13:18	51303	WIND_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/27/2025 13:18	51304	WIND_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/27/2025 13:18	60404	DILL_T2	1	1	0	3.3	3	-0.3	0.21	0.21	1	1	0	1200	1200	0
2/27/2025 13:18	51301	WIND_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 13:18	14802	TREI_T2	4	3	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/27/2025 13:18	51306	WIND_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
2/27/2025 13:19	51304	WIND_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/27/2025 13:19	51303	WIND_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/27/2025 13:19	51301	WIND_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 13:19	51305	WIND_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
2/27/2025 13:19	51306	WIND_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
2/27/2025 13:19	51302	WIND_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/27/2025 13:20	51305	WIND_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
2/27/2025 13:20	61801	EELI_T2	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
2/27/2025 13:20	51303	WIND_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/27/2025 13:20	51301	WIND_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 13:20	10801	CHHI_T1	4	0	-4	0.1	0	-0.1	-2.75	-2.74	4	4	0	3000	3000	0
2/27/2025 13:20	51302	WIND_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/27/2025 13:20	61803	EELI_T2	0	0	0	0	0	0	0.88	0.89	0	0	0	0	0	0
2/27/2025 13:20	51304	WIND_T2	1	0	-1	0.1	0	-0.1	-0.16	-0.18	0	0	0	0	0	0
2/27/2025 13:23	63501	HEID_TBK1-2	0	1	1	0	0.7	0.7	0.09	0.22	1	1	0	900	900	0
2/27/2025 13:23	42302	MOWR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 13:23	42301	MOWR_T2	0	0	0	0	0	0	-0.34	-0.3	0	0	0	0	0	0
2/27/2025 13:24	42301	MOWR_T2	0	0	0	0	0	0	-0.34	-0.3	0	0	0	0	0	0
2/27/2025 13:24	42302	MOWR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 13:24	63501	HEID_TBK1-2	0	1	1	0	0.7	0.7	0.09	0.22	1	1	0	900	900	0
2/27/2025 13:25	63501	HEID_TBK1-2	0	1	1	0	0.7	0.7	0.19	0.44	2	2	0	1800	1800	0
2/27/2025 13:25	42302	MOWR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 13:25	42301	MOWR_T2	0	0	0	0	0	0	-1.03	-0.9	0	0	0	0	0	0
2/27/2025 13:26	42301	MOWR_T2	0	0	0	0	0	0	-0.69	-0.6	0	0	0	0	0	0
2/27/2025 13:26	42302	MOWR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 13:27	42302	MOWR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 13:27	42301	MOWR_T2	0	0	0	0	0	0	-1.03	-0.9	0	0	0	0	0	0
2/27/2025 13:28	42301	MOWR_T2	0	0	0	0	0	0	-0.69	-0.6	0	0	0	0	0	0
2/27/2025 13:28	42302	MOWR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 13:29	42302	MOWR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 13:29	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 13:29	61402	SLIT_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/27/2025 13:29	42301	MOWR_T2	0	0	0	0	0	0	-0.69	-0.6	0	0	0	0	0	0
2/27/2025 13:30	41902	REED_T1	1	1	0	0.3	0.1	-0.2	1.01	1.02	0	0	0	0	0	0
2/27/2025 13:30	42301	MOWR_T2	0	2	2	0	0.2	0.2	-0.34	-0.3	0	0	0	0	0	0
2/27/2025 13:30	42302	MOWR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 13:33	42301	MOWR_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 13:33	42302	MOWR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 13:35	17802	GILB_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
2/27/2025 13:35	54603	SUMM_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
2/27/2025 13:35	54602	SUMM_T2	3	10	7	0.13	0.23	0.1	0	0	0	0	0	0	0	0
2/27/2025 13:35	54601	SUMM_T2	13	14	1	0.8	0.79	-0.01	0	0	0	0	0	0	0	0
2/27/2025 13:36	48901	FOSP_T2	0	0	0	0	0	0	-0.16	-0.25	2	2	0	1200	1200	0
2/27/2025 13:36	45701	LIND_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
2/27/2025 13:36	48902	FOSP_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/27/2025 13:36	45702	LIND_T2	1	1	0	1.5	2.1	0.6	0	0	0	0	0	0	0	0
2/27/2025 13:37	54502	ENOL_T2	1	12	11	0.6	0.23	-0.37	0	0	0	0	0	0	0	0
2/27/2025 13:37	54504	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/27/2025 13:37	54501	ENOL_T2	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
2/27/2025 13:37	54505	ENOL_T2	1	2	1	0.8	0.8	0	0	0	0	0	0	0	0	0
2/27/2025 13:37	54506	ENOL_T2	0	0	0	0	0	0	0.62	-0.05	0	0	0	0	0	0
2/27/2025 13:38	11102	EGYP_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 13:38	11104	EGYP_T1	0	0	0	0	0	0	0.49	0.43	0	0	0	0	0	0
2/27/2025 13:39	64101	REFR_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
2/27/2025 13:40	64101	REFR_T1	0	3	3	0	0.17	0.17	-0.75	-0.8	0	0	0	0	0	0
2/27/2025 13:40	24105	EHAZ_T1	4	4	0	6.45	5.45	-1	-2.12	-2.11	1	1	0	1200	1200	0
2/27/2025 13:40	24101	EHAZ_T1	30	16	-14	0.58	0.42	-0.16	0	0	0	0	0	0	0	0
2/27/2025 13:40	58401	MORO_T1	1	1	0	0.4	0.2	-0.2	-1.14	-1.16	1	1	0	600	600	0
2/27/2025 13:41	64101	REFR_T1	0	3	3	0	0.17	0.17	-0.3	-0.32	0	0	0	0	0	0
2/27/2025 13:41	58401	MORO_T1	1	1	0	0.4	0.2	-0.2	-1.14	-1.16	1	1	0	600	600	0
2/27/2025 13:41	58402	MORO_T1	0	0	0	0	0	0	-0.14	-0.13	2	2	0	1500	1500	0
2/27/2025 13:41	54502	ENOL_T2	1	12	11	0.6	0.23	-0.37	0	0	0	0	0	0	0	0
2/27/2025 13:41	54505	ENOL_T2	1	2	1	0.8	0.8	0	-0.66	-0.66	1	1	0	600	600	0
2/27/2025 13:41	54504	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/27/2025 13:41	54501	ENOL_T2	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
2/27/2025 13:42	58401	MORO_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/27/2025 13:42	58402	MORO_T1	0	0	0	0	0	0	-0.14	-0.13	2	2	0	1500	1500	0
2/27/2025 13:44	54504	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/27/2025 13:44	54502	ENOL_T2	1	12	11	0.6	0.23	-0.37	0	0	0	0	0	0	0	0
2/27/2025 13:44	64101	REFR_T1	0	3	3	0	0.17	0.17	-0.3	-0.32	0	0	0	0	0	0
2/27/2025 13:44	54505	ENOL_T2	1	2	1	0.8	0.8	0	-0.66	-0.66	1	1	0	600	600	0
2/27/2025 13:44	54501	ENOL_T2	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
2/27/2025 13:46	67601	WARW_T2	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
2/27/2025 13:46	67605	WARW_T1	28	35	7	0.45	0.55	0.1	-0.83	-0.79	0	0	0	0	0	0
2/27/2025 13:46	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 13:47	67605	WARW_T1	28	35	7	0.45	0.55	0.1	0	0	0	0	0	0	0	0
2/27/2025 13:53	47104	MARL_T1	0	0	0	0	0	0	-0.96	-0.91	0	0	0	0	0	0
2/27/2025 13:55	53802	MBRG_T2	0	0	0	0	0	0	1.19	1.22	0	0	0	0	0	0
2/27/2025 13:56	52501	PROG_T1	0	2	2	0	0.2	0.2	0.55	0.56	1	1	0	300	300	0
2/27/2025 13:57	66903	SHIL_T2	0	0	0	0	0	0	-2.46	-2.46	0	0	0	0	0	0
2/27/2025 13:58	58401	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/27/2025 13:58	52503	PROG_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 13:58	58402	MORO_T1	0	0	0	0	0	0	-0.13	-0.13	2	2	0	1500	1500	0
2/27/2025 13:58	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 13:58	65601	QVIL_T2	0	0	0	0	0	0	-1.21	-1.2	1	1	0	900	900	0
2/27/2025 13:58	66903	SHIL_T2	0	0	0	0	0	0	-1.23	-1.23	0	0	0	0	0	0
2/27/2025 13:59	65603	QVIL_T2	0	0	0	0	0	0	0.74	0.51	0	0	0	0	0	0
2/27/2025 13:59	47104	MARL_T1	0	0	0	0	0	0	-0.96	-0.91	0	0	0	0	0	0
2/27/2025 14:00	67605	WARW_T1	33	46	13	0.54	0.6	0.06	-0.79	-0.83	0	0	0	0	0	0
2/27/2025 14:00	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 14:01	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 14:01	65601	QVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 14:01	67605	WARW_T1	33	46	13	0.54	0.6	0.06	-0.79	-0.83	0	0	0	0	0	0
2/27/2025 14:01	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 14:01	61304	EARL_T1	0	1	1	0	0.1	0.1	-0.79	-0.83	1	1	0	600	600	0
2/27/2025 14:01	66901	SHIL_T2	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
2/27/2025 14:01	21705	SUBU_T1	2	2	0	4.35	5.7	1.35	0	0	0	0	0	0	0	0
2/27/2025 14:01	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 14:01	21701	SUBU_T1	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
2/27/2025 14:02	14801	TREI_T2	45	80	35	0.18	0.23	0.05	0	0	0	0	0	0	0	0
2/27/2025 14:02	14802	TREI_T2	10	11	1	0.22	0.25	0.03	0.34	0.3	0	0	0	0	0	0
2/27/2025 14:03	60902	DONG_T2	0	0	0	0	0	0	0.8	0.79	0	0	0	0	0	0
2/27/2025 14:04	62106	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/27/2025 14:04	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 14:04	62105	ELAN_T1	1	1	0	0.3	0.2	-0.1	0.35	0.34	0	0	0	0	0	0
2/27/2025 14:04	15803	WGAT_T1	0	0	0	0	0	0	0.36	1.59	0	0	0	0	0	0
2/27/2025 14:04	15801	WGAT_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
2/27/2025 14:06	15803	WGAT_T1	0	0	0	0	0	0	0.36	1.59	0	0	0	0	0	0
2/27/2025 14:06	15801	WGAT_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
2/27/2025 14:08	46102	MACI_T1	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
2/27/2025 14:08	20201	JERM_T1	0	0	0	0	0	0	-0.42	-0.28	2	2	0	2400	2400	0
2/27/2025 14:09	20603	GRWO_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/27/2025 14:09	20601	GRWO_T2	0	0	0	0	0	0	0.65	0.73	0	0	0	0	0	0
2/27/2025 14:12	64101	REFR_T1	3	8	5	0.17	0.29	0.12	-0.17	-0.16	0	0	0	0	0	0
2/27/2025 14:13	62105	ELAN_T1	1	1	0	0.3	0.2	-0.1	0.34	0.35	0	0	0	0	0	0
2/27/2025 14:13	64101	REFR_T1	3	8	5	0.17	0.29	0.12	-0.17	-0.16	0	0	0	0	0	0
2/27/2025 14:13	57402	SPAN_T2	0	0	0	0	0	0	-0.59	-0.56	0	0	0	0	0	0
2/27/2025 14:13	62106	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/27/2025 14:13	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 14:14	62106	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/27/2025 14:14	65601	QVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 14:14	62102	ELAN_T1	0	0	0	0	0	0	0.48	0.45	0	0	0	0	0	0
2/27/2025 14:14	65603	QVIL_T2	0	0	0	0	0	0	0.26	0.32	0	0	0	0	0	0
2/27/2025 14:14	52502	PROG_T2	0	0	0	0	0	0	0.25	0.21	0	0	0	0	0	0
2/27/2025 14:14	62105	ELAN_T1	1	1	0	0.3	0.2	-0.1	0.34	0.35	0	0	0	0	0	0
2/27/2025 14:14	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 14:14	52503	PROG_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/27/2025 14:15	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 14:15	65601	QVIL_T2	0	24	24	0	0.13	0.13	0	0	0	0	0	0	0	0
2/27/2025 14:17	67901	WNHO_T2	0	0	0	0	0	0	0.74	0.64	0	0	0	0	0	0
2/27/2025 14:21	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/27/2025 14:24	47102	MARL_T2	2	3	1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
2/27/2025 14:24	47103	MARL_T2	2	3	1	0.15	0.43	0.28	-0.56	-0.55	0	0	0	0	0	0
2/27/2025 14:24	45702	LIND_T2	1	58	57	2.1	0.22	-1.88	0	0	0	0	0	0	0	0
2/27/2025 14:24	46101	MACI_T2	0	0	0	0	0	0	0.2	0.13	1	1	0	1200	1200	0
2/27/2025 14:24	45701	LIND_T2	0	0	0	0	0	0	-0.32	-0.29	0	0	0	0	0	0
2/27/2025 14:25	45801	HEGI_T1	0	0	0	0	0	0	-0.27	-0.29	1	1	0	900	900	0
2/27/2025 14:25	55001	NEWP_T1	1	1	0	0.2	0.3	0.1	-0.45	-0.48	0	0	0	0	0	0
2/27/2025 14:25	55002	NEWP_T1	6	6	0	1.27	1.32	0.05	0	0	0	0	0	0	0	0
2/27/2025 14:27	64101	REFR_T1	7	10	3	0.23	0.34	0.11	-0.16	-0.15	0	0	0	0	0	0
2/27/2025 14:28	64101	REFR_T1	7	10	3	0.23	0.34	0.11	-0.16	-0.15	0	0	0	0	0	0
2/27/2025 14:30	52401	GRPA_T2	1	1	0	0.2	0.5	0.3	-0.95	-0.89	0	0	0	0	0	0
2/27/2025 14:30	52402	GRPA_T2	8	6	-2	0.49	0.78	0.29	0	0	0	0	0	0	0	0
2/27/2025 14:30	52403	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/27/2025 14:31	65602	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 14:31	59201	THOM_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 14:31	65601	QVIL_T2	2	36	34	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
2/27/2025 14:31	59202	THOM_T1	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
2/27/2025 14:31	65603	QVIL_T2	0	0	0	0	0	0	0.32	0.26	0	0	0	0	0	0
2/27/2025 14:31	65604	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 14:32	60801	BUCK_T1	0	16	16	0	0.17	0.17	0.04	0.01	0	0	0	0	0	0
2/27/2025 14:32	57403	SPAN_T1	63	40	-23	0.25	0.3	0.05	0	0	0	0	0	0	0	0
2/27/2025 14:32	57401	SPAN_T1	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 14:32	60803	BUCK_T1	12	17	5	0.18	0.33	0.15	0	0	0	0	0	0	0	0
2/27/2025 14:36	46801	HEPB_T2	3	2	-1	0.87	0.5	-0.37	0	0	0	0	0	0	0	0
2/27/2025 14:36	46803	HEPB_T2	0	0	0	0	0	0	0.45	0.45	0	0	0	0	0	0
2/27/2025 14:38	40802	EXCH_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/27/2025 14:38	40801	EXCH_T2	2	2	0	0.2	0.1	-0.1	0.77	0.78	0	0	0	0	0	0
2/27/2025 14:48	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 14:50	17401	FOHI_T1	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
2/27/2025 14:52	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
2/27/2025 14:52	54502	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/27/2025 14:52	54503	ENOL_T2	0	0	0	0	0	0	-0.44	-0.47	1	1	0	600	600	0
2/27/2025 14:54	52402	GRPA_T2	6	6	0	0.47	0.78	0.31	0	0	0	0	0	0	0	0
2/27/2025 14:54	52401	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/27/2025 14:54	52403	GRPA_T2	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
2/27/2025 15:07	23901	EFMO_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
2/27/2025 15:09	64702	LITI_T2	0	0	0	0	0	0	-0.63	-0.69	0	0	0	0	0	0
2/27/2025 15:09	23901	EFMO_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
2/27/2025 15:10	13303	ORVI_T1	0	0	0	0	0	0	0.9	0.9	0	0	0	0	0	0
2/27/2025 15:11	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 15:11	23901	EFMO_T2	0	0	0	0	0	0	-0.3	-0.31	0	0	0	0	0	0
2/27/2025 15:12	13303	ORVI_T1	0	0	0	0	0	0	1.79	1.79	0	0	0	0	0	0
2/27/2025 15:12	64702	LITI_T2	0	0	0	0	0	0	-0.63	-0.69	0	0	0	0	0	0
2/27/2025 15:14	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 15:16	54601	SUMM_T2	12	12	0	0.63	0.52	-0.11	0	0	0	0	0	0	0	0
2/27/2025 15:16	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 15:18	54601	SUMM_T2	12	12	0	0.63	0.52	-0.11	-1.91	-1.89	2	2	0	2100	2100	0
2/27/2025 15:19	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 15:19	54601	SUMM_T2	12	12	0	0.63	0.52	-0.11	-3.83	-3.78	4	4	0	4200	4200	0
2/27/2025 15:20	67502	WEWI_T2	48	28	-20	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
2/27/2025 15:20	67503	WEWI_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/27/2025 15:23	47901	HRDG_T1	0	0	0	0	0	0	1.63	1.33	0	0	0	0	0	0
2/27/2025 15:24	47901	HRDG_T1	0	0	0	0	0	0	1.63	1.33	0	0	0	0	0	0
2/27/2025 15:25	63501	HEID_TBK1-2	13	136	123	0.21	0.34	0.13	-0.3	-0.46	2	2	0	1800	1800	0
2/27/2025 15:27	57201	ROSS_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/27/2025 15:27	57205	ROSS_T1	1	0	-1	0.1	0	-0.1	0.19	0.12	0	0	0	0	0	0
2/27/2025 15:27	57203	ROSS_T1	0	0	0	0	0	0	-0.37	-0.4	0	0	0	0	0	0
2/27/2025 15:28	57205	ROSS_T1	1	0	-1	0.1	0	-0.1	0.19	0.12	0	0	0	0	0	0
2/27/2025 15:28	57201	ROSS_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/27/2025 15:29	57203	ROSS_T1	0	0	0	0	0	0	-0.37	-0.4	0	0	0	0	0	0
2/27/2025 15:29	57205	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/27/2025 15:29	57201	ROSS_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
2/27/2025 15:31	57201	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 15:31	57203	ROSS_T1	0	0	0	0	0	0	-0.37	-0.4	0	0	0	0	0	0
2/27/2025 15:34	55105	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 15:37	55105	WERT_T1	0	0	0	0	0	0	-0.73	-0.72	1	1	0	900	900	0
2/27/2025 15:38	63501	HEID_TBK1-2	35	140	105	0.32	0.35	0.03	-0.23	-0.4	1	1	0	900	900	0
2/27/2025 15:54	63501	HEID_TBK1-2	136	92	-44	0.34	0.4	0.06	-0.4	-0.5	1	1	0	900	900	0
2/27/2025 15:58	63501	HEID_TBK1-2	136	92	-44	0.34	0.4	0.06	-0.4	-0.5	1	1	0	900	900	0
2/27/2025 16:08	20601	GRWO_T2	0	0	0	0	0	0	0.24	0.2	0	0	0	0	0	0
2/27/2025 16:08	20603	GRWO_T2	45	42	-3	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
2/27/2025 16:08	62106	ELAN_T1	0	0	0	0	0	0	0.3	0.2	0	0	0	0	0	0
2/27/2025 16:08	62105	ELAN_T1	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
2/27/2025 16:09	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 16:40	64201	KINZ_T1	1	1	0	0.7	1.1	0.4	-0.74	-0.59	2	2	0	1200	1200	0
2/27/2025 16:40	64204	KINZ_T1	1	21	20	0.7	0.36	-0.34	0	0	0	0	0	0	0	0
2/27/2025 16:40	64202	KINZ_T1	2	3	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
2/27/2025 16:41	54506	ENOL_T2	0	0	0	0	0	0	-0.03	0.08	1	0	-1	600	0	-600
2/27/2025 16:41	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
2/27/2025 17:13	44202	POIN_T2	0	0	0	0	0	0	-0.57	-0.5	1	1	0	1200	1200	0
2/27/2025 17:20	14705	TREX_T1	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
2/27/2025 17:20	14704	TREX_T1	1	1	0	5.2	6.8	1.6	0	0	0	0	0	0	0	0
2/27/2025 19:11	53803	MBRG_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
2/27/2025 19:20	54505	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
2/27/2025 19:20	54501	ENOL_T2	0	0	0	0	0	0	-1.14	-1.13	1	1	0	600	600	0
2/27/2025 19:22	54505	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
2/27/2025 19:22	54501	ENOL_T2	0	0	0	0	0	0	-1.13	-1.11	1	1	0	600	600	0
2/27/2025 19:28	58102	NEKI_T1	1	1	0	0.7	0.8	0.1	0.31	0.29	0	0	0	0	0	0
2/27/2025 19:33	24206	PROV_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 19:33	24202	PROV_T4	38	42	4	0.22	0.22	0	-0.78	-0.84	1	1	0	1200	1200	0
2/27/2025 19:34	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 19:34	21701	SUBU_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
2/27/2025 19:34	21705	SUBU_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
2/27/2025 19:36	24101	EHAZ_T1	10	21	11	0.25	0.28	0.03	0	0	0	0	0	0	0	0
2/27/2025 19:36	24105	EHAZ_T1	4	4	0	6.35	6.33	-0.02	-0.77	-0.8	0	0	0	0	0	0
2/27/2025 19:39	20603	GRWO_T2	34	43	9	0.3	0.34	0.04	0.4	0.42	0	0	0	0	0	0
2/27/2025 19:41	60801	BUCK_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
2/27/2025 19:41	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 19:43	43402	BENT_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	900	900	0
2/27/2025 19:46	43202	MVIL_T2	21	65	44	0.22	0.37	0.15	-0.65	-0.64	0	0	0	0	0	0
2/27/2025 19:46	11104	EGYP_T1	0	0	0	0	0	0	0.59	0.63	0	0	0	0	0	0
2/27/2025 19:46	11103	EGYP_T1	0	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0
2/27/2025 19:47	43302	WATS_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 19:47	25402	LAHA_T2	24	36	12	0.13	0.16	0.03	-0.74	-0.73	0	0	0	0	0	0
2/27/2025 19:47	25404	LAHA_T2	203	278	75	0.2	0.24	0.04	0	0	0	0	0	0	0	0
2/27/2025 19:47	43301	WATS_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
2/27/2025 19:47	43304	WATS_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/27/2025 19:48	17802	GILB_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
2/27/2025 19:48	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
2/27/2025 19:48	43301	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 19:48	43304	WATS_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/27/2025 19:48	43302	WATS_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 19:48	20601	GRWO_T2	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
2/27/2025 19:48	20603	GRWO_T2	34	54	20	0.31	0.41	0.1	0	0	0	0	0	0	0	0
2/27/2025 19:48	64201	KINZ_T1	1	2	1	1	0.45	-0.55	0.07	0.14	2	2	0	600	600	0
2/27/2025 19:49	64201	KINZ_T1	1	2	1	1	0.45	-0.55	0.07	0.14	2	2	0	600	600	0
2/27/2025 19:49	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
2/27/2025 19:50	14801	TREI_T2	0	1	1	0	0.2	0.2	0.46	0.49	0	0	0	0	0	0
2/27/2025 19:50	65602	QVIL_T2	2	7	5	0.2	0.33	0.13	0	0	0	0	0	0	0	0
2/27/2025 19:50	46002	BERW_T2	0	0	0	0	0	0	-1.17	-1.15	1	1	0	900	900	0
2/27/2025 19:50	65603	QVIL_T2	0	0	0	0	0	0	-0.02	-0.06	0	0	0	0	0	0
2/27/2025 19:50	48901	FOSP_T2	3	4	1	0.13	0.23	0.1	0.27	0.24	0	0	0	0	0	0
2/27/2025 19:50	65601	QVIL_T2	0	14	14	0	0.15	0.15	0	0	0	0	0	0	0	0
2/27/2025 19:50	48902	FOSP_T2	3	4	1	0.13	0.18	0.05	0	0	0	0	0	0	0	0
2/27/2025 19:51	64202	KINZ_T1	0	0	0	0	0	0	0.46	0.42	0	0	0	0	0	0
2/27/2025 19:51	46101	MACI_T2	0	0	0	0	0	0	0.74	0.78	0	0	0	0	0	0
2/27/2025 19:51	61802	EELI_T2	0	0	0	0	0	0	-0.33	-0.35	0	0	0	0	0	0
2/27/2025 19:51	65602	QVIL_T2	2	7	5	0.2	0.33	0.13	0	0	0	0	0	0	0	0
2/27/2025 19:51	43402	BENT_T1	0	0	0	0	0	0	-0.97	-0.98	1	1	0	900	900	0
2/27/2025 19:51	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
2/27/2025 19:51	65601	QVIL_T2	0	14	14	0	0.15	0.15	0	0	0	0	0	0	0	0
2/27/2025 19:51	64201	KINZ_T1	1	2	1	1	0.45	-0.55	0	0	0	0	0	0	0	0
2/27/2025 19:51	65603	QVIL_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
2/27/2025 19:52	42302	MOWR_T2	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0	0
2/27/2025 19:52	59101	WALK_T2	0	0	0	0	0	0	1.4	1.59	0	0	0	0	0	0
2/27/2025 19:52	14801	TREI_T2	0	1	1	0	0.2	0.2	0.49	0.45	0	0	0	0	0	0
2/27/2025 19:52	15801	WGAT_T1	2	3	1	0.15	0.37	0.22	0	0	0	0	0	0	0	0
2/27/2025 19:52	43302	WATS_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 19:52	45501	DERR_T2	0	0	0	0	0	0	0.24	0.19	2	2	0	1800	1800	0
2/27/2025 19:52	40101	HUNT_T2	0	0	0	0	0	0	-1.43	-1.42	0	0	0	0	0	0
2/27/2025 19:52	42301	MOWR_T2	1	0	-1	0.1	0	-0.1	-0.72	-0.72	0	0	0	0	0	0
2/27/2025 19:52	43301	WATS_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
2/27/2025 19:52	43304	WATS_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/27/2025 19:52	63501	HEID_TBK1-2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
2/27/2025 19:52	15803	WGAT_T1	0	0	0	0	0	0	2.38	2.38	0	0	0	0	0	0
2/27/2025 19:53	66903	SHIL_T2	0	0	0	0	0	0	-1.29	-1.28	0	0	0	0	0	0
2/27/2025 19:53	43301	WATS_T2	0	0	0	0	0	0	0.34	0.34	0	0	0	0	0	0
2/27/2025 19:53	43304	WATS_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/27/2025 19:53	43202	MVIL_T2	21	65	44	0.22	0.37	0.15	-0.64	-0.69	0	0	0	0	0	0
2/27/2025 19:53	43302	WATS_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 19:53	55002	NEWP_T1	6	6	0	0.82	0.97	0.15	0	0	0	0	0	0	0	0
2/27/2025 19:53	48902	FOSP_T2	3	4	1	0.13	0.18	0.05	0	0	0	0	0	0	0	0
2/27/2025 19:53	48901	FOSP_T2	3	4	1	0.13	0.23	0.1	0.48	0.44	0	0	0	0	0	0
2/27/2025 19:53	55001	NEWP_T1	0	0	0	0	0	0	-0.94	-0.88	0	0	0	0	0	0
2/27/2025 19:54	23901	EFMO_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
2/27/2025 19:54	62106	ELAN_T1	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
2/27/2025 19:54	62103	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/27/2025 19:54	64701	LITI_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
2/27/2025 19:54	62105	ELAN_T1	0	68	68	0	0.13	0.13	0	0	0	0	0	0	0	0
2/27/2025 19:54	62101	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/27/2025 19:54	47401	PENS_T1	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
2/27/2025 19:54	10801	CHHI_T1	0	0	0	0	0	0	-3.14	-3.14	4	4	0	3000	3000	0
2/27/2025 19:54	55002	NEWP_T1	6	6	0	0.82	0.97	0.15	-0.24	-0.25	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/27/2025 19:55	63501	HEID_TBK1-2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
2/27/2025 19:55	42301	MOWR_T2	1	0	-1	0.1	0	-0.1	-0.72	-0.72	0	0	0	0	0	0
2/27/2025 19:55	65602	QVIL_T2	2	7	5	0.2	0.33	0.13	0	0	0	0	0	0	0	0
2/27/2025 19:55	65601	QVIL_T2	0	14	14	0	0.15	0.15	-1.26	-1.32	1	1	0	900	900	0
2/27/2025 19:55	64204	KINZ_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
2/27/2025 19:55	64704	LITI_T1	0	0	0	0	0	0	0.33	0.28	2	2	0	1200	1200	0
2/27/2025 19:55	47104	MARL_T1	5	21	16	0.1	0.12	0.02	0	0	0	0	0	0	0	0
2/27/2025 19:55	53902	HALI_T2	1	1	0	5.3	5.5	0.2	0	0	0	0	0	0	0	0
2/27/2025 19:55	43202	MVIL_T2	21	65	44	0.22	0.37	0.15	-0.64	-0.69	0	0	0	0	0	0
2/27/2025 19:55	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 19:55	61002	DONV_T2	0	0	0	0	0	0	-0.79	-0.81	1	1	0	600	600	0
2/27/2025 19:55	64201	KINZ_T1	1	2	1	1	0.45	-0.55	0.14	0.18	2	2	0	600	600	0
2/27/2025 19:55	43304	WATS_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/27/2025 19:55	53903	HALI_T2	2	2	0	1.15	1.3	0.15	0	0	0	0	0	0	0	0
2/27/2025 19:55	23901	EFMO_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
2/27/2025 19:55	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 19:55	46001	BERW_T1	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
2/27/2025 19:55	42302	MOWR_T2	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0	0
2/27/2025 19:55	53901	HALI_T2	0	1	1	0	0.6	0.6	-0.98	-0.97	0	0	0	0	0	0
2/27/2025 19:55	60201	ATGL_T2	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
2/27/2025 19:55	43301	WATS_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
2/27/2025 19:55	47101	MARL_T1	0	0	0	0	0	0	-0.13	-0.09	0	0	0	0	0	0
2/27/2025 19:55	43302	WATS_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 19:56	14704	TREX_T1	1	1	0	2.9	6.6	3.7	0	0	0	0	0	0	0	0
2/27/2025 19:56	42301	MOWR_T2	1	0	-1	0.1	0	-0.1	-0.36	-0.36	0	0	0	0	0	0
2/27/2025 19:56	67605	WARW_T1	2	10	8	0.1	0.24	0.14	0	0	0	0	0	0	0	0
2/27/2025 19:56	63501	HEID_TBK1-2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
2/27/2025 19:56	47104	MARL_T1	5	21	16	0.1	0.12	0.02	-0.92	-0.93	0	0	0	0	0	0
2/27/2025 19:56	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 19:56	54201	PENN_T1	10	11	1	0.9	1.05	0.15	0.02	-0.02	0	0	0	0	0	0
2/27/2025 19:56	48901	FOSP_T2	3	4	1	0.13	0.23	0.1	0.48	0.44	0	0	0	0	0	0
2/27/2025 19:56	48902	FOSP_T2	3	4	1	0.13	0.18	0.05	0	0	0	0	0	0	0	0
2/27/2025 19:56	42302	MOWR_T2	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0	0
2/27/2025 19:56	46001	BERW_T1	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
2/27/2025 19:56	67106	SPRI_T2	1	1	0	0	0	0	-2.62	-2.62	2	2	0	1800	1800	0
2/27/2025 19:56	14705	TREX_T1	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
2/27/2025 19:56	54203	PENN_T1	18	19	1	1.14	1.36	0.22	0	0	0	0	0	0	0	0
2/27/2025 19:56	43402	BENT_T1	0	0	0	0	0	0	-0.97	-0.98	1	1	0	900	900	0
2/27/2025 19:57	41602	CLEV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/27/2025 19:57	47901	HRDG_T1	0	0	0	0	0	0	1.66	1.55	0	0	0	0	0	0
2/27/2025 19:57	67603	WARW_T1	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
2/27/2025 19:57	20603	GRWO_T2	34	54	20	0.31	0.41	0.1	0.42	0.37	0	0	0	0	0	0
2/27/2025 19:57	66901	SHIL_T2	0	0	0	0	0	0	-1.53	-1.51	1	1	0	1200	1200	0
2/27/2025 19:57	67106	SPRI_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 19:57	67605	WARW_T1	2	10	8	0.1	0.24	0.14	-0.73	-0.79	0	0	0	0	0	0
2/27/2025 19:57	42302	MOWR_T2	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0	0
2/27/2025 19:57	62103	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/27/2025 19:57	54601	SUMM_T2	2	4	2	0.1	0.25	0.15	-1.85	-1.89	2	2	0	2100	2100	0
2/27/2025 19:57	62105	ELAN_T1	0	68	68	0	0.13	0.13	0.41	0.41	0	0	0	0	0	0
2/27/2025 19:57	55002	NEWP_T1	6	6	0	0.82	0.97	0.15	-0.24	-0.25	0	0	0	0	0	0
2/27/2025 19:57	62101	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/27/2025 19:57	64101	REFR_T1	0	0	0	0	0	0	-0.29	-0.34	0	0	0	0	0	0
2/27/2025 19:57	62106	ELAN_T1	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
2/27/2025 19:57	46001	BERW_T1	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
2/27/2025 19:57	42301	MOWR_T2	1	0	-1	0.1	0	-0.1	-0.72	-0.72	0	0	0	0	0	0
2/27/2025 19:57	63501	HEID_TBK1-2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
2/27/2025 19:57	64702	LITI_T2	0	0	0	0	0	0	-0.7	-0.65	0	0	0	0	0	0
2/27/2025 19:58	63501	HEID_TBK1-2	0	0	0	0	0	0	0.69	0.72	0	0	0	0	0	0
2/27/2025 19:58	54601	SUMM_T2	2	4	2	0.1	0.25	0.15	-1.85	-1.89	2	2	0	2100	2100	0
2/27/2025 19:58	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 19:58	55002	NEWP_T1	6	6	0	0.82	0.97	0.15	-0.24	-0.25	0	0	0	0	0	0
2/27/2025 19:58	10801	CHHI_T1	0	0	0	0	0	0	-1.57	-1.57	2	2	0	1500	1500	0
2/27/2025 19:58	52004	LING_T2	2	2	0	6.35	6.65	0.3	0.16	0.17	0	0	0	0	0	0
2/27/2025 19:58	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 19:58	46002	BERW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 19:58	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 19:58	14802	TREI_T2	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
2/27/2025 19:58	62105	ELAN_T1	0	68	68	0	0.13	0.13	0	0	0	0	0	0	0	0
2/27/2025 19:58	62103	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/27/2025 19:58	65602	QVIL_T2	2	7	5	0.2	0.33	0.13	0	0	0	0	0	0	0	0
2/27/2025 19:58	42301	MOWR_T2	1	0	-1	0.1	0	-0.1	-1.08	-1.08	0	0	0	0	0	0
2/27/2025 19:58	52006	LING_T2	2	2	0	0.7	1.15	0.45	0	0	0	0	0	0	0	0
2/27/2025 19:58	64101	REFR_T1	0	0	0	0	0	0	-0.14	-0.17	0	0	0	0	0	0
2/27/2025 19:58	14801	TREI_T2	0	1	1	0	0.2	0.2	0.49	0.45	0	0	0	0	0	0
2/27/2025 19:58	23901	EFMO_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
2/27/2025 19:58	62106	ELAN_T1	0	11	11	0	0.12	0.12	-0.02	-0.1	0	0	0	0	0	0
2/27/2025 19:58	55001	NEWP_T1	0	0	0	0	0	0	-0.47	-0.44	0	0	0	0	0	0
2/27/2025 19:58	47403	PENS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 19:58	57203	ROSS_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
2/27/2025 19:58	62102	ELAN_T1	0	0	0	0	0	0	0.68	0.58	0	0	0	0	0	0
2/27/2025 19:58	54203	PENN_T1	18	19	1	1.14	1.36	0.22	-0.12	-0.12	0	0	0	0	0	0
2/27/2025 19:58	65601	QVIL_T2	0	14	14	0	0.15	0.15	0	0	0	0	0	0	0	0
2/27/2025 19:58	62101	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/27/2025 19:58	66901	SHIL_T2	0	0	0	0	0	0	-1.53	-1.51	1	1	0	1200	1200	0
2/27/2025 19:58	54201	PENN_T1	10	11	1	0.9	1.05	0.15	0.01	0.01	0	0	0	0	0	0
2/27/2025 19:58	52002	LING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 19:58	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 19:58	42302	MOWR_T2	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0	0
2/27/2025 19:59	57402	SPAN_T2	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
2/27/2025 19:59	67502	WEWI_T2	50	310	260	0.16	0.31	0.15	0	0	0	0	0	0	0	0
2/27/2025 19:59	45702	LIND_T2	1	1	0	1.6	1.9	0.3	-0.58	-0.59	0	0	0	0	0	0
2/27/2025 19:59	67601	WARW_T2	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
2/27/2025 19:59	47101	MARL_T1	0	0	0	0	0	0	-0.13	-0.09	0	0	0	0	0	0
2/27/2025 19:59	47104	MARL_T1	5	21	16	0.1	0.12	0.02	0	0	0	0	0	0	0	0
2/27/2025 19:59	66903	SHIL_T2	0	0	0	0	0	0	-1.29	-1.28	0	0	0	0	0	0
2/27/2025 19:59	57201	ROSS_T1	0	0	0	0	0	0	-0.46	-0.61	0	0	0	0	0	0
2/27/2025 19:59	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 19:59	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/27/2025 19:59	51306	WIND_T2	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
2/27/2025 19:59	57203	ROSS_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
2/27/2025 19:59	48902	FOSP_T2	3	4	1	0.13	0.18	0.05	0.06	0.11	0	0	0	0	0	0
2/27/2025 19:59	64101	REFR_T1	0	0	0	0	0	0	-0.43	-0.51	0	0	0	0	0	0
2/27/2025 19:59	40802	EXCH_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
2/27/2025 19:59	51304	WIND_T2	0	0	0	0	0	0	-0.25	-0.24	0	0	0	0	0	0
2/27/2025 19:59	42301	MOWR_T2	1	0	-1	0.1	0	-0.1	-0.36	-0.36	0	0	0	0	0	0
2/27/2025 19:59	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 19:59	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 19:59	54601	SUMM_T2	2	4	2	0.1	0.25	0.15	0	0	0	0	0	0	0	0
2/27/2025 19:59	67605	WARW_T1	2	10	8	0.1	0.24	0.14	0	0	0	0	0	0	0	0
2/27/2025 19:59	48901	FOSP_T2	3	4	1	0.13	0.23	0.1	0.24	0.22	0	0	0	0	0	0
2/27/2025 19:59	42302	MOWR_T2	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0	0
2/27/2025 20:00	45702	LIND_T2	1	1	0	1.9	1.1	-0.8	0	0	0	0	0	0	0	0
2/27/2025 20:00	47102	MARL_T2	17	19	2	0.44	0.54	0.1	0	0	0	0	0	0	0	0
2/27/2025 20:00	65602	QVIL_T2	5	7	2	0.2	0.31	0.11	0	0	0	0	0	0	0	0
2/27/2025 20:00	52401	GRPA_T2	0	0	0	0	0	0	-0.83	-0.76	0	0	0	0	0	0
2/27/2025 20:00	57203	ROSS_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
2/27/2025 20:00	17401	FOHI_T1	0	0	0	0	0	0	-0.99	-1	0	0	0	0	0	0
2/27/2025 20:00	52402	GRPA_T2	4	3	-1	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
2/27/2025 20:00	48902	FOSP_T2	1	5	4	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/27/2025 20:00	52403	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/27/2025 20:00	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:00	42301	MOWR_T2	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
2/27/2025 20:00	40801	EXCH_T2	0	0	0	0	0	0	0.85	0.77	0	0	0	0	0	0
2/27/2025 20:00	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
2/27/2025 20:00	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:00	52006	LING_T2	2	2	0	0.7	1.15	0.45	0	0	0	0	0	0	0	0
2/27/2025 20:00	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:00	47103	MARL_T2	22	48	26	0.2	0.3	0.1	-0.57	-0.54	0	0	0	0	0	0
2/27/2025 20:00	45801	HEGI_T1	0	0	0	0	0	0	-0.36	-0.35	1	1	0	900	900	0
2/27/2025 20:00	48901	FOSP_T2	3	4	1	0.1	0.23	0.13	0.24	0.22	0	0	0	0	0	0
2/27/2025 20:00	57201	ROSS_T1	0	0	0	0	0	0	-0.46	-0.61	0	0	0	0	0	0
2/27/2025 20:00	60902	DONG_T2	0	0	0	0	0	0	0.46	0.43	0	0	0	0	0	0
2/27/2025 20:00	52002	LING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/27/2025 20:00	46802	HEPB_T1	1	1	0	1.5	1.5	0	-1.26	-1.31	0	0	0	0	0	0
2/27/2025 20:00	45701	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:00	42302	MOWR_T2	2	5	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
2/27/2025 20:00	65601	QVIL_T2	0	14	14	0	0.15	0.15	0	0	0	0	0	0	0	0
2/27/2025 20:00	52004	LING_T2	2	2	0	6.45	6.7	0.25	0.32	0.34	0	0	0	0	0	0
2/27/2025 20:00	11202	ELHE_T2	0	0	0	0	0	0	0.37	0.38	1	1	0	1200	1200	0
2/27/2025 20:01	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:01	63501	HEID_TBK1-2	0	0	0	0	0	0	0.69	0.72	0	0	0	0	0	0
2/27/2025 20:01	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	-0.65	-0.66	1	1	0	600	600	0
2/27/2025 20:01	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:01	40101	HUNT_T2	0	0	0	0	0	0	-1.43	-1.42	0	0	0	0	0	0
2/27/2025 20:01	62106	ELAN_T1	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
2/27/2025 20:01	65603	QVIL_T2	0	0	0	0	0	0	-0.12	-0.1	0	0	0	0	0	0
2/27/2025 20:01	65601	QVIL_T2	0	14	14	0	0.15	0.15	0	0	0	0	0	0	0	0
2/27/2025 20:01	52502	PROG_T2	0	0	0	0	0	0	0.32	0.39	0	0	0	0	0	0
2/27/2025 20:01	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/27/2025 20:01	57205	ROSS_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
2/27/2025 20:01	47403	PENS_T1	0	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0
2/27/2025 20:01	62103	ELAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/27/2025 20:01	46801	HEPB_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/27/2025 20:01	54203	PENN_T1	18	19	1	1.23	1.42	0.19	-0.12	-0.12	0	0	0	0	0	0
2/27/2025 20:01	62101	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/27/2025 20:01	60803	BUCK_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/27/2025 20:01	65602	QVIL_T2	5	7	2	0.2	0.31	0.11	0	0	0	0	0	0	0	0
2/27/2025 20:01	54201	PENN_T1	10	11	1	0.92	1.15	0.23	0	0	0	0	0	0	0	0
2/27/2025 20:01	62105	ELAN_T1	0	68	68	0	0.13	0.13	0.41	0.41	0	0	0	0	0	0
2/27/2025 20:01	46803	HEPB_T2	0	0	0	0	0	0	0.46	0.42	0	0	0	0	0	0
2/27/2025 20:01	52501	PROG_T1	0	0	0	0	0	0	0.8	0.84	2	2	0	600	600	0
2/27/2025 20:01	44202	POIN_T2	0	0	0	0	0	0	-0.54	-0.52	1	1	0	1200	1200	0
2/27/2025 20:01	64702	LITI_T2	0	0	0	0	0	0	-0.7	-0.65	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/27/2025 20:01	47401	PENS_T1	0	0	0	0	0	0	0.73	0.75	0	0	0	0	0	0
2/27/2025 20:01	59101	WALK_T2	0	0	0	0	0	0	1.4	1.59	0	0	0	0	0	0
2/27/2025 20:01	66903	SHIL_T2	0	0	0	0	0	0	-1.29	-1.28	0	0	0	0	0	0
2/27/2025 20:01	40802	EXCH_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
2/27/2025 20:01	64101	REFR_T1	0	0	0	0	0	0	-0.29	-0.34	0	0	0	0	0	0
2/27/2025 20:01	60801	BUCK_T1	0	6	6	0	0.1	0.1	-0.25	-0.26	0	0	0	0	0	0
2/27/2025 20:02	64904	MILL_T1	1	0	-1	0.1	0	-0.1	-0.55	0.34	0	0	0	0	0	0
2/27/2025 20:02	63501	HEID_TBK1-2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
2/27/2025 20:02	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:02	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:02	59202	THOM_T1	157	106	-51	0.2	0.21	0.01	0	0	0	0	0	0	0	0
2/27/2025 20:02	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
2/27/2025 20:02	13303	ORVI_T1	0	0	0	0	0	0	1.59	1.49	0	0	0	0	0	0
2/27/2025 20:02	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.18	0	0	0	0	0	0
2/27/2025 20:02	54504	ENOL_T2	0	0	0	0	0	0	-1.09	-1.08	1	1	0	600	600	0
2/27/2025 20:02	10105	ALLE_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 20:02	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:02	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:02	10101	ALLE_T3	2	2	0	4.8	5.55	0.75	0	0	0	0	0	0	0	0
2/27/2025 20:02	40802	EXCH_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
2/27/2025 20:02	52501	PROG_T1	0	0	0	0	0	0	0.4	0.42	1	1	0	300	300	0
2/27/2025 20:02	57401	SPAN_T1	2	2	0	0.5	0.85	0.35	0	0	0	0	0	0	0	0
2/27/2025 20:02	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	-0.65	-0.66	1	1	0	600	600	0
2/27/2025 20:02	64901	MILL_T1	36	1	-35	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
2/27/2025 20:02	59201	THOM_T1	25	15	-10	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
2/27/2025 20:02	51306	WIND_T2	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
2/27/2025 20:02	57403	SPAN_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
2/27/2025 20:02	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:03	59202	THOM_T1	157	106	-51	0.2	0.21	0.01	0	0	0	0	0	0	0	0
2/27/2025 20:03	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.18	0	0	0	0	0	0
2/27/2025 20:03	52401	GRPA_T2	0	0	0	0	0	0	-0.83	-0.76	0	0	0	0	0	0
2/27/2025 20:03	52004	LING_T2	2	2	0	6.45	6.7	0.25	0	0	0	0	0	0	0	0
2/27/2025 20:03	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:03	64101	REFR_T1	0	0	0	0	0	0	-0.43	-0.51	0	0	0	0	0	0
2/27/2025 20:03	67106	SPRI_T2	1	1	0	0	0	0	-1.31	-1.31	1	1	0	900	900	0
2/27/2025 20:03	52403	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/27/2025 20:03	52501	PROG_T1	0	0	0	0	0	0	0.8	0.84	2	2	0	600	600	0
2/27/2025 20:03	45502	DERR_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
2/27/2025 20:03	52002	LING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/27/2025 20:03	51306	WIND_T2	0	0	0	0	0	0	0.17	0.22	0	0	0	0	0	0
2/27/2025 20:03	61304	EARL_T1	0	0	0	0	0	0	-0.31	-0.35	0	0	0	0	0	0
2/27/2025 20:03	42301	MOWR_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
2/27/2025 20:03	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:03	46004	BERW_T2	0	0	0	0	0	0	-0.7	-0.77	0	0	0	0	0	0
2/27/2025 20:03	52006	LING_T2	2	2	0	0.7	1.15	0.45	0	0	0	0	0	0	0	0
2/27/2025 20:03	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:03	61402	SLIT_T1	1	1	0	1.5	1	-0.5	0	0	0	0	0	0	0	0
2/27/2025 20:03	52402	GRPA_T2	4	3	-1	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
2/27/2025 20:03	42302	MOWR_T2	2	5	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
2/27/2025 20:03	59201	THOM_T1	25	15	-10	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
2/27/2025 20:03	57401	SPAN_T1	2	2	0	0.5	0.85	0.35	0	0	0	0	0	0	0	0
2/27/2025 20:03	53601	DALM_T2	0	1	1	0	0.1	0.1	-0.22	-0.15	0	0	0	0	0	0
2/27/2025 20:03	55105	WERT_T1	0	0	0	0	0	0	-0.69	-0.69	1	1	0	900	900	0
2/27/2025 20:03	57205	ROSS_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
2/27/2025 20:03	43202	MVIL_T2	49	65	16	0.28	0.36	0.08	-0.64	-0.69	0	0	0	0	0	0
2/27/2025 20:03	61404	SLIT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:04	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	-0.65	-0.66	1	1	0	600	600	0
2/27/2025 20:04	40801	EXCH_T2	0	0	0	0	0	0	0.85	0.77	0	0	0	0	0	0
2/27/2025 20:04	67901	WNHO_T2	3	25	22	0.17	0.22	0.05	-0.02	-0.08	0	0	0	0	0	0
2/27/2025 20:04	28102	TWLA_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
2/27/2025 20:04	67201	TEHI_T1	0	0	0	0	0	0	-0.18	-0.2	1	1	0	900	900	0
2/27/2025 20:04	62105	ELAN_T1	0	68	68	0	0.13	0.13	0	0	0	0	0	0	0	0
2/27/2025 20:04	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:04	10105	ALLE_T3	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/27/2025 20:04	62101	ELAN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
2/27/2025 20:04	62102	ELAN_T1	0	0	0	0	0	0	0.68	0.58	0	0	0	0	0	0
2/27/2025 20:04	62106	ELAN_T1	0	11	11	0	0.12	0.12	0	0	0	0	0	0	0	0
2/27/2025 20:04	10101	ALLE_T3	2	2	0	4.8	5.55	0.75	0	0	0	0	0	0	0	0
2/27/2025 20:04	62103	ELAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/27/2025 20:05	52402	GRPA_T2	4	3	-1	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
2/27/2025 20:05	47104	MARL_T1	0	21	21	0	0.12	0.12	-0.92	-0.93	0	0	0	0	0	0
2/27/2025 20:05	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:05	54601	SUMM_T2	1	6	5	0.2	0.32	0.12	-1.85	-1.89	2	2	0	2100	2100	0
2/27/2025 20:05	54503	ENOL_T2	0	0	0	0	0	0	-0.42	-0.43	1	1	0	600	600	0
2/27/2025 20:05	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/27/2025 20:05	52403	GRPA_T2	1	1	0	0.4	0	-0.4	-0.48	-0.54	0	0	0	0	0	0
2/27/2025 20:05	67605	WARW_T1	2	12	10	0.15	0.23	0.08	-0.73	-0.79	0	0	0	0	0	0
2/27/2025 20:05	58401	MORO_T1	0	0	0	0	0	0	-1.17	-1.19	1	1	0	600	600	0
2/27/2025 20:05	66903	SHIL_T2	0	0	0	0	0	0	-1.29	-1.28	0	0	0	0	0	0
2/27/2025 20:05	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:05	58402	MORO_T1	0	0	0	0	0	0	-0.43	-0.09	3	2	-1	1950	1500	-450
2/27/2025 20:06	61803	EELI_T2	0	0	0	0	0	0	0.75	0.73	0	0	0	0	0	0
2/27/2025 20:06	64201	KINZ_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
2/27/2025 20:06	57401	SPAN_T1	2	2	0	0.5	0.85	0.35	0	0	0	0	0	0	0	0
2/27/2025 20:06	57403	SPAN_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
2/27/2025 20:06	53801	MBRG_T2	0	0	0	0	0	0	-0.61	-0.64	0	0	0	0	0	0
2/27/2025 20:06	13303	ORVI_T1	0	0	0	0	0	0	0.8	0.74	0	0	0	0	0	0
2/27/2025 20:06	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:06	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:06	64204	KINZ_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
2/27/2025 20:06	52502	PROG_T2	0	0	0	0	0	0	0.32	0.39	0	0	0	0	0	0
2/27/2025 20:06	55105	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:06	46102	MACI_T1	10	25	15	0.15	0.18	0.03	0.64	0.66	0	0	0	0	0	0
2/27/2025 20:07	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:07	58401	MORO_T1	0	0	0	0	0	0	-1.19	-1.2	1	1	0	600	600	0
2/27/2025 20:07	52502	PROG_T2	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
2/27/2025 20:07	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:07	58201	NEWV_T1	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
2/27/2025 20:07	57201	ROSS_T1	0	0	0	0	0	0	-0.61	-0.59	0	0	0	0	0	0
2/27/2025 20:07	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:07	57401	SPAN_T1	2	2	0	0.5	0.85	0.35	0	0	0	0	0	0	0	0
2/27/2025 20:07	54601	SUMM_T2	1	6	5	0.2	0.32	0.12	0	0	0	0	0	0	0	0
2/27/2025 20:07	55002	NEWP_T1	6	5	-1	0.95	0.98	0.03	-0.25	-0.27	0	0	0	0	0	0
2/27/2025 20:08	55002	NEWP_T1	6	5	-1	0.95	0.98	0.03	-0.25	-0.27	0	0	0	0	0	0
2/27/2025 20:08	63501	HEID_TBK1-2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
2/27/2025 20:08	52403	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/27/2025 20:08	57403	SPAN_T1	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
2/27/2025 20:08	52402	GRPA_T2	4	3	-1	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
2/27/2025 20:08	57401	SPAN_T1	2	2	0	0.5	0.85	0.35	0	0	0	0	0	0	0	0
2/27/2025 20:08	47901	HRDG_T1	0	0	0	0	0	0	1.55	1.61	0	0	0	0	0	0
2/27/2025 20:08	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:08	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:09	58401	MORO_T1	0	0	0	0	0	0	-2.38	-2.4	2	2	0	1200	1200	0
2/27/2025 20:09	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:09	53802	MBRG_T2	0	0	0	0	0	0	0.58	0.68	0	0	0	0	0	0
2/27/2025 20:09	47203	FAXO_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
2/27/2025 20:09	42302	MOWR_T2	2	5	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
2/27/2025 20:09	42301	MOWR_T2	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
2/27/2025 20:10	67605	WARW_T1	2	12	10	0.15	0.23	0.08	-0.79	-0.82	0	0	0	0	0	0
2/27/2025 20:10	51306	WIND_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
2/27/2025 20:10	52402	GRPA_T2	4	3	-1	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
2/27/2025 20:10	52403	GRPA_T2	1	1	0	0.4	0	-0.4	-0.54	-0.58	0	0	0	0	0	0
2/27/2025 20:10	57205	ROSS_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
2/27/2025 20:10	58401	MORO_T1	0	0	0	0	0	0	-1.19	-1.2	1	1	0	600	600	0
2/27/2025 20:11	52004	LING_T2	2	2	0	6.45	6.7	0.25	0.17	0.17	0	0	0	0	0	0
2/27/2025 20:11	52006	LING_T2	2	2	0	0.7	1.15	0.45	0	0	0	0	0	0	0	0
2/27/2025 20:11	52002	LING_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/27/2025 20:12	55001	NEWP_T1	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
2/27/2025 20:12	54601	SUMM_T2	1	6	5	0.2	0.32	0.12	-1.89	-1.86	2	2	0	2100	2100	0
2/27/2025 20:12	58401	MORO_T1	0	0	0	0	0	0	-2.38	-2.4	2	2	0	1200	1200	0
2/27/2025 20:12	55002	NEWP_T1	6	5	-1	0.95	0.98	0.03	0	0	0	0	0	0	0	0
2/27/2025 20:13	59101	WALK_T2	0	0	0	0	0	0	1.59	1.28	0	0	0	0	0	0
2/27/2025 20:13	52403	GRPA_T2	1	1	0	0.4	0	-0.4	-0.54	-0.58	0	0	0	0	0	0
2/27/2025 20:13	52402	GRPA_T2	4	3	-1	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
2/27/2025 20:14	52403	GRPA_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/27/2025 20:14	52402	GRPA_T2	4	3	-1	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
2/27/2025 20:15	58402	MORO_T1	0	0	0	0	0	0	-0.09	-0.04	2	2	0	1500	1500	0
2/27/2025 20:17	52402	GRPA_T2	3	1	-2	0.63	0.1	-0.53	0	0	0	0	0	0	0	0
2/27/2025 20:17	52403	GRPA_T2	1	0	-1	0.4	0	-0.4	-0.54	-0.58	0	0	0	0	0	0
2/27/2025 20:25	50625	CCTY_T2	5	6	1	4.18	3.52	-0.66	0	0	0	0	0	0	0	0
2/27/2025 20:25	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2025 20:25	50624	CCTY_T2	2	2	0	6.35	6.3	-0.05	0	0	0	0	0	0	0	0
2/27/2025 20:25	50623	CCTY_T2	6	6	0	5.78	5.85	0.07	0	0	0	0	0	0	0	0
2/27/2025 20:33	62103	ELAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/27/2025 20:33	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 20:33	62101	ELAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/27/2025 20:33	62106	ELAN_T1	3	18	15	0.1	0.16	0.06	0	0	0	0	0	0	0	0
2/27/2025 20:33	62105	ELAN_T1	29	122	93	0.1	0.17	0.07	0.4	0.42	0	0	0	0	0	0
2/27/2025 20:37	20201	JERM_T1	0	0	0	0	0	0	-0.54	-0.56	2	2	0	2400	2400	0
2/27/2025 20:39	62103	ELAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/27/2025 20:39	62105	ELAN_T1	29	122	93	0.1	0.17	0.07	0.42	0.39	0	0	0	0	0	0
2/27/2025 20:39	62106	ELAN_T1	3	18	15	0.1	0.16	0.06	0	0	0	0	0	0	0	0
2/27/2025 20:39	62101	ELAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/27/2025 20:39	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/27/2025 21:37	57201	ROSS_T1	7	8	1	0.11	0.11	0	-0.7	-0.68	0	0	0	0	0	0
2/27/2025 23:06	60404	DILL_T2	1	1	0	0.4	0	-0.4	-0.64	-0.74	1	1	0	1200	1200	0
2/27/2025 23:35	45701	LIND_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
2/27/2025 23:35	45702	LIND_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
2/28/2025 7:38	55002	NEWP_T1	4	4	0	0.3	0.45	0.15	-0.23	-0.22	0	0	0	0	0	0
2/28/2025 7:49	61801	EELI_T2	0	1	1	0	0.4	0.4	-0.93	-0.98	1	1	0	600	600	0
2/28/2025 7:51	23401	HONE_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
2/28/2025 8:02	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/28/2025 8:02	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/28/2025 8:02	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 8:06	46001	BERW_T1	0	0	0	0	0	0	0.7	0.73	0	0	0	0	0	0
2/28/2025 8:06	45501	DERR_T2	0	0	0	0	0	0	0.18	0.05	2	2	0	1800	1800	0
2/28/2025 8:07	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/28/2025 8:07	66503	SMAN_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
2/28/2025 8:07	66502	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 8:08	46002	BERW_T2	0	0	0	0	0	0	-0.69	-0.72	1	1	0	900	900	0
2/28/2025 8:08	45501	DERR_T2	0	0	0	0	0	0	0.18	0.05	2	2	0	1800	1800	0
2/28/2025 8:08	46004	BERW_T2	0	0	0	0	0	0	-0.69	-0.7	0	0	0	0	0	0
2/28/2025 8:13	63501	HEID_TBK1-2	1	1	0	0.4	0.8	0.4	-0.18	-0.16	1	1	0	900	900	0
2/28/2025 8:27	46004	BERW_T2	0	1	1	0	0	0	-0.7	-0.77	0	0	0	0	0	0
2/28/2025 8:27	61301	EARL_T1	0	0	0	0	0	0	-0.37	-0.39	1	1	0	900	900	0
2/28/2025 8:29	51306	WIND_T2	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
2/28/2025 8:33	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
2/28/2025 8:33	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
2/28/2025 8:33	54506	ENOL_T2	0	0	0	0	0	0	-1.36	-1.32	0	0	0	0	0	0
2/28/2025 8:36	64902	MILL_T2	0	0	0	0	0	0	-0.76	-0.7	1	1	0	900	900	0
2/28/2025 8:37	58302	NOTT_T1	0	0	0	0	0	0	-1.4	-1.37	2	2	0	2100	2100	0
2/28/2025 8:38	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 8:49	40702	FFLD_T1	2	2	0	0.2	0.3	0.1	-1.31	-1.23	1	1	0	1200	1200	0
2/28/2025 8:49	40703	FFLD_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
2/28/2025 8:49	40701	FFLD_T1	17	27	10	0.18	0.2	0.02	0	0	0	0	0	0	0	0
2/28/2025 8:50	40701	FFLD_T1	17	27	10	0.18	0.2	0.02	0	0	0	0	0	0	0	0
2/28/2025 8:50	40703	FFLD_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
2/28/2025 8:50	40702	FFLD_T1	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/28/2025 8:53	63501	HEID_TBK1-2	12	38	26	0.12	0.31	0.19	-0.23	-0.25	1	1	0	900	900	0
2/28/2025 8:54	63501	HEID_TBK1-2	12	38	26	0.12	0.31	0.19	-0.23	-0.25	1	1	0	900	900	0
2/28/2025 8:54	20601	GRWO_T2	1	1	0	1	0.4	-0.6	0.75	0.75	0	0	0	0	0	0
2/28/2025 8:55	63501	HEID_TBK1-2	12	38	26	0.12	0.31	0.19	-0.23	-0.25	1	1	0	900	900	0
2/28/2025 8:57	44601	SALE_T2	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
2/28/2025 8:58	44601	SALE_T2	0	0	0	0	0	0	-0.15	-0.14	0	0	0	0	0	0
2/28/2025 9:00	67605	WARW_T1	21	31	10	0.42	0.49	0.07	-0.76	-0.73	0	0	0	0	0	0
2/28/2025 9:00	46004	BERW_T2	0	0	0	0	0	0	-0.7	-0.79	0	0	0	0	0	0
2/28/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.5	0.48	0	0	0	0	0	0
2/28/2025 9:01	58102	NEKI_T1	1	1	0	1.8	1.7	-0.1	-1.03	-0.97	1	1	0	1200	1200	0
2/28/2025 9:03	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
2/28/2025 9:03	45902	AUBU_T1	2	2	0	1.25	0	-1.25	0	0	0	0	0	0	0	0
2/28/2025 9:04	45902	AUBU_T1	2	2	0	1.25	0	-1.25	0	0	0	0	0	0	0	0
2/28/2025 9:04	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
2/28/2025 9:05	24902	WHHA_T1	2	3	1	0.1	0.2	0.1	0.91	0.86	0	0	0	0	0	0
2/28/2025 9:05	24901	WHHA_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
2/28/2025 9:05	45902	AUBU_T1	2	2	0	1.25	0	-1.25	0	0	0	0	0	0	0	0
2/28/2025 9:07	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 9:07	55002	NEWP_T1	6	5	-1	0.73	0.34	-0.39	-0.19	-0.19	0	0	0	0	0	0
2/28/2025 9:07	67605	WARW_T1	21	31	10	0.42	0.49	0.07	0	0	0	0	0	0	0	0
2/28/2025 9:08	24901	WHHA_T1	1	0	-1	0.8	0	-0.8	-0.75	-0.75	0	0	0	0	0	0
2/28/2025 9:08	24902	WHHA_T1	2	3	1	0.1	0.2	0.1	0.86	0.94	0	0	0	0	0	0
2/28/2025 9:08	45902	AUBU_T1	2	2	0	1.25	0	-1.25	0.01	0.01	1	1	0	600	600	0
2/28/2025 9:08	17401	FOHI_T1	0	0	0	0	0	0	-1	-0.99	0	0	0	0	0	0
2/28/2025 9:08	28102	TWLA_T2	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
2/28/2025 9:09	46004	BERW_T2	0	0	0	0	0	0	-0.79	-0.79	0	0	0	0	0	0
2/28/2025 9:10	17401	FOHI_T1	0	0	0	0	0	0	-1	-0.99	0	0	0	0	0	0
2/28/2025 9:12	17401	FOHI_T1	0	0	0	0	0	0	-2	-1.98	0	0	0	0	0	0
2/28/2025 9:13	47101	MARL_T1	1	0	-1	0.2	0	-0.2	-0.14	-0.12	0	0	0	0	0	0
2/28/2025 9:13	47104	MARL_T1	9	0	-9	0.14	0	-0.14	0	0	0	0	0	0	0	0
2/28/2025 9:14	11203	ELHE_T1	0	0	0	0	0	0	1.23	1.18	0	0	0	0	0	0
2/28/2025 9:15	54504	ENOL_T2	0	0	0	0	0	0	-3.24	-3.12	3	3	0	1800	1800	0
2/28/2025 9:15	54506	ENOL_T2	0	0	0	0	0	0	-2.81	-2.62	2	2	0	1200	1200	0
2/28/2025 9:15	64701	LITI_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
2/28/2025 9:15	47104	MARL_T1	0	0	0	0	0	0	-0.85	-0.89	0	0	0	0	0	0
2/28/2025 9:15	54502	ENOL_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
2/28/2025 9:15	54505	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 9:18	54502	ENOL_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
2/28/2025 9:18	54503	ENOL_T2	0	0	0	0	0	0	-0.41	-0.38	1	1	0	600	600	0
2/28/2025 9:18	54505	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 9:19	47104	MARL_T1	0	0	0	0	0	0	-0.85	-0.89	0	0	0	0	0	0
2/28/2025 9:19	47402	PENS_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/28/2025 9:19	47403	PENS_T1	6	8	2	0.37	0.43	0.06	0	0	0	0	0	0	0	0
2/28/2025 9:19	58302	NOTT_T1	0	0	0	0	0	0	-1.34	-1.41	2	2	0	2100	2100	0
2/28/2025 9:19	47401	PENS_T1	7	5	-2	0.51	0.74	0.23	0.84	0.88	0	0	0	0	0	0
2/28/2025 9:23	57205	ROSS_T1	0	1	1	0	0.2	0.2	0.18	0.2	0	0	0	0	0	0
2/28/2025 9:25	60701	BREC_T1	0	9	9	0	0.26	0.26	-1.6	-1.79	10	10	0	6000	6000	0
2/28/2025 9:26	60701	BREC_T1	0	9	9	0	0.26	0.26	-0.96	-1.07	6	6	0	3600	3600	0
2/28/2025 9:27	60701	BREC_T1	0	9	9	0	0.26	0.26	-0.32	-0.36	2	2	0	1200	1200	0
2/28/2025 9:28	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 9:28	60701	BREC_T1	0	9	9	0	0.26	0.26	-0.32	-0.36	2	2	0	1200	1200	0
2/28/2025 9:30	61304	EARL_T1	0	0	0	0	0	0	-0.66	-0.51	1	1	0	600	600	0
2/28/2025 9:30	60701	BREC_T1	5	9	4	0.26	0.33	0.07	0	0	0	0	0	0	0	0
2/28/2025 9:30	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 9:31	41801	GOCI_T2	1	153	152	0.3	0.31	0.01	0	0	0	0	0	0	0	0
2/28/2025 9:32	17802	GILB_T1	0	0	0	0	0	0	0.18	0.22	0	0	0	0	0	0
2/28/2025 9:32	41801	GOCI_T2	1	153	152	0.3	0.31	0.01	0	0	0	0	0	0	0	0
2/28/2025 9:33	41801	GOCI_T2	1	153	152	0.3	0.31	0.01	0	0	0	0	0	0	0	0
2/28/2025 9:34	11202	ELHE_T2	0	0	0	0	0	0	0.37	0.43	1	1	0	1200	1200	0
2/28/2025 9:35	41801	GOCI_T2	1	153	152	0.3	0.31	0.01	0	0	0	0	0	0	0	0
2/28/2025 9:36	20601	GRWO_T2	1	2	1	0.6	0.9	0.3	0.77	0.75	0	0	0	0	0	0
2/28/2025 9:38	13303	ORVI_T1	2	0	-2	0.1	0	-0.1	-0.4	-0.27	0	0	0	0	0	0
2/28/2025 9:38	24206	PROV_T4	1	0	-1	6.8	0	-6.8	0	0	0	0	0	0	0	0
2/28/2025 9:38	24202	PROV_T4	0	2	2	0	0.15	0.15	-0.8	-0.8	1	1	0	1200	1200	0
2/28/2025 9:42	41901	REED_T1	1	7	6	0.2	0.31	0.11	0	0	0	0	0	0	0	0
2/28/2025 9:42	41902	REED_T1	0	0	0	0	0	0	1.06	1.1	0	0	0	0	0	0
2/28/2025 9:43	67605	WARW_T1	30	33	3	0.48	0.44	-0.04	-0.72	-0.77	0	0	0	0	0	0
2/28/2025 9:43	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 9:43	67603	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/28/2025 9:44	14801	TREI_T2	0	5	5	0	0.34	0.34	0.45	0.43	0	0	0	0	0	0
2/28/2025 9:44	67603	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/28/2025 9:44	65503	MOJO_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
2/28/2025 9:44	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 9:44	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 9:44	67605	WARW_T1	30	33	3	0.48	0.44	-0.04	-0.72	-0.77	0	0	0	0	0	0
2/28/2025 9:45	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 9:45	65503	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 9:45	65601	QVIL_T2	3	13	10	0.23	0.24	0.01	-1.15	-1.04	1	1	0	900	900	0
2/28/2025 9:45	67603	WARW_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/28/2025 9:45	65602	QVIL_T2	2	40	38	0.15	0.35	0.2	0	0	0	0	0	0	0	0
2/28/2025 9:45	67605	WARW_T1	28	31	3	0.46	0.49	0.03	-0.72	-0.77	0	0	0	0	0	0
2/28/2025 9:45	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 9:46	14801	TREI_T2	3	4	1	0.3	0.4	0.1	0.45	0.43	0	0	0	0	0	0
2/28/2025 9:46	67605	WARW_T1	28	31	3	0.46	0.49	0.03	0	0	0	0	0	0	0	0
2/28/2025 9:46	67604	WARW_T1	0	1	1	0	0.2	0.2	0.16	0.33	0	0	0	0	0	0
2/28/2025 9:46	13905	SEID_T1	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
2/28/2025 9:46	67603	WARW_T1	1	1	0	0.1	0.5	0.4	0.07	0.07	0	0	0	0	0	0
2/28/2025 9:46	13901	SEID_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
2/28/2025 9:47	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 9:47	67605	WARW_T1	28	31	3	0.46	0.49	0.03	-0.72	-0.77	0	0	0	0	0	0
2/28/2025 9:47	67603	WARW_T1	1	1	0	0.1	0.5	0.4	0.13	0.13	0	0	0	0	0	0
2/28/2025 9:48	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 9:48	67605	WARW_T1	28	31	3	0.46	0.49	0.03	-0.72	-0.77	0	0	0	0	0	0
2/28/2025 9:48	67603	WARW_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
2/28/2025 9:54	41801	GOCI_T2	140	141	1	0.29	0.3	0.01	0	0	0	0	0	0	0	0
2/28/2025 9:56	64204	KINZ_T1	10	42	32	0.29	0.45	0.16	0	0	0	0	0	0	0	0
2/28/2025 9:56	64202	KINZ_T1	0	2	2	0	0.3	0.3	0.72	0.8	0	0	0	0	0	0
2/28/2025 9:56	46101	MACI_T2	0	0	0	0	0	0	-0.55	-0.65	2	2	0	2400	2400	0
2/28/2025 9:59	58401	MORO_T1	0	0	0	0	0	0	-0.94	-0.99	1	1	0	600	600	0
2/28/2025 9:59	64203	KINZ_T1	0	0	0	0	0	0	-0.08	0.17	2	2	0	1800	1800	0
2/28/2025 9:59	45702	LIND_T2	1	2	1	0.2	0.4	0.2	-0.44	-0.45	0	0	0	0	0	0
2/28/2025 9:59	64202	KINZ_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/28/2025 9:59	64204	KINZ_T1	10	42	32	0.29	0.45	0.16	0	0	0	0	0	0	0	0
2/28/2025 10:00	58402	MORO_T1	0	2	2	0	0.1	0.1	-0.8	-0.82	3	3	0	2400	2400	0
2/28/2025 10:00	58401	MORO_T1	0	0	0	0	0	0	-1.88	-1.98	2	2	0	1200	1200	0
2/28/2025 10:02	45902	AUBU_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/28/2025 10:02	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
2/28/2025 10:04	67201	TEHI_T1	0	2	2	0	0.15	0.15	0.7	0.66	1	1	0	900	900	0
2/28/2025 10:05	67204	TEHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 10:05	42701	AUGU_T1	2	1	-1	0.75	1.7	0.95	0	0	0	0	0	0	0	0
2/28/2025 10:06	42701	AUGU_T1	2	1	-1	0.75	1.7	0.95	0	0	0	0	0	0	0	0
2/28/2025 10:07	42701	AUGU_T1	2	1	-1	0.75	1.7	0.95	0	0	2	2	0	1800	1800	0
2/28/2025 10:08	43301	WATS_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
2/28/2025 10:08	63501	HEID_TBK1-2	93	123	30	0.35	0.34	-0.01	-0.46	-0.3	2	2	0	1800	1800	0
2/28/2025 10:09	63501	HEID_TBK1-2	93	123	30	0.35	0.34	-0.01	-0.23	-0.15	1	1	0	900	900	0
2/28/2025 10:11	63501	HEID_TBK1-2	93	123	30	0.35	0.34	-0.01	-0.23	-0.15	1	1	0	900	900	0
2/28/2025 10:13	63501	HEID_TBK1-2	93	123	30	0.35	0.34	-0.01	-0.46	-0.3	2	2	0	1800	1800	0
2/28/2025 10:13	41305	FISH_T1	2	6	4	0.15	0.32	0.17	0	0	0	0	0	0	0	0
2/28/2025 10:13	41301	FISH_T1	20	129	109	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
2/28/2025 10:14	41301	FISH_T1	20	129	109	0.29	0.28	-0.01	-0.56	-0.45	0	0	0	0	0	0
2/28/2025 10:14	58701	ROSE_T2	0	0	0	0	0	0	-0.28	-0.26	1	1	0	600	600	0
2/28/2025 10:14	41305	FISH_T1	2	6	4	0.15	0.32	0.17	0	0	0	0	0	0	0	0
2/28/2025 10:15	41301	FISH_T1	27	188	161	0.33	0.26	-0.07	-0.28	-0.22	0	0	0	0	0	0
2/28/2025 10:15	41305	FISH_T1	1	17	16	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
2/28/2025 10:16	20601	GRWO_T2	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
2/28/2025 10:17	41301	FISH_T1	27	188	161	0.33	0.26	-0.07	-0.28	-0.22	0	0	0	0	0	0
2/28/2025 10:17	52403	GRPA_T2	11	13	2	0.35	0.49	0.14	0	0	0	0	0	0	0	0
2/28/2025 10:17	52402	GRPA_T2	3	4	1	0.47	0.68	0.21	0	0	0	0	0	0	0	0
2/28/2025 10:17	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/28/2025 10:17	41305	FISH_T1	1	17	16	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
2/28/2025 10:18	52403	GRPA_T2	11	13	2	0.35	0.49	0.14	-0.52	-0.59	0	0	0	0	0	0
2/28/2025 10:18	52402	GRPA_T2	3	4	1	0.47	0.68	0.21	0	0	0	0	0	0	0	0
2/28/2025 10:18	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/28/2025 10:19	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/28/2025 10:19	52402	GRPA_T2	3	4	1	0.47	0.68	0.21	0	0	0	0	0	0	0	0
2/28/2025 10:19	52403	GRPA_T2	11	13	2	0.35	0.49	0.14	0	0	0	0	0	0	0	0
2/28/2025 10:20	60902	DONG_T2	1	4	3	0.1	0.45	0.35	0	0	0	0	0	0	0	0
2/28/2025 10:20	60903	DONG_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/28/2025 10:20	60904	DONG_T2	1	7	6	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
2/28/2025 10:20	60901	DONG_T2	3	6	3	0.33	0.47	0.14	0	0	0	0	0	0	0	0
2/28/2025 10:24	65602	QVIL_T2	18	52	34	0.22	0.7	0.48	0	0	0	0	0	0	0	0
2/28/2025 10:24	65604	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 10:24	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 10:24	67904	WNHO_T1	0	0	0	0	0	0	-1.16	-1.17	1	1	0	1200	1200	0
2/28/2025 10:24	65601	QVIL_T2	13	25	12	0.23	0.23	0	0	0	0	0	0	0	0	0
2/28/2025 10:25	65604	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 10:25	47403	PENS_T1	0	1	1	0	2	2	0	0	0	0	0	0	0	0
2/28/2025 10:25	65601	QVIL_T2	13	25	12	0.23	0.23	0	0	0	0	0	0	0	0	0
2/28/2025 10:25	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/28/2025 10:25	47401	PENS_T1	0	4	4	0	0.53	0.53	0	0	0	0	0	0	0	0
2/28/2025 10:25	65602	QVIL_T2	18	52	34	0.22	0.7	0.48	0.15	0.2	0	0	0	0	0	0
2/28/2025 10:26	52004	LING_T2	2	3	1	6	4.53	-1.47	0.3	0.25	0	0	0	0	0	0
2/28/2025 10:26	52006	LING_T2	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
2/28/2025 10:26	52002	LING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/28/2025 10:27	65602	QVIL_T2	18	52	34	0.22	0.7	0.48	0	0	0	0	0	0	0	0
2/28/2025 10:27	52004	LING_T2	2	3	1	6	4.53	-1.47	0.59	0.5	0	0	0	0	0	0
2/28/2025 10:27	65603	QVIL_T2	0	0	0	0	0	0	1.13	0.99	0	0	0	0	0	0
2/28/2025 10:27	65604	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 10:27	52006	LING_T2	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
2/28/2025 10:27	52002	LING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/28/2025 10:27	65601	QVIL_T2	13	25	12	0.23	0.23	0	0	0	0	0	0	0	0	0
2/28/2025 10:28	67904	WNHO_T1	0	0	0	0	0	0	-1.16	-1.17	1	1	0	1200	1200	0
2/28/2025 10:29	41301	FISH_T1	27	188	161	0.33	0.26	-0.07	-0.22	-0.28	0	0	0	0	0	0
2/28/2025 10:29	41305	FISH_T1	1	17	16	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
2/28/2025 10:29	43301	WATS_T2	0	1	1	0	0.1	0.1	0.19	0.19	0	0	0	0	0	0
2/28/2025 10:30	10805	CHHI_T2	3	1	-2	2.47	8	5.53	-1.14	-0.5	1	0	-1	600	0	-600
2/28/2025 10:34	24102	EHAZ_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
2/28/2025 10:34	24104	EHAZ_T1	42	59	17	0.22	0.3	0.08	0	0	0	0	0	0	0	0
2/28/2025 10:34	24103	EHAZ_T1	0	0	0	0	0	0	-0.13	-0.2	0	0	0	0	0	0
2/28/2025 10:34	24105	EHAZ_T1	4	4	0	6.13	6.08	-0.05	0	0	0	0	0	0	0	0
2/28/2025 10:35	52401	GRPA_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
2/28/2025 10:35	52403	GRPA_T2	13	3	-10	0.49	0.57	0.08	-0.59	-0.55	0	0	0	0	0	0
2/28/2025 10:35	60903	DONG_T2	2	8	6	0.1	0.23	0.13	0	0	0	0	0	0	0	0
2/28/2025 10:35	60902	DONG_T2	4	4	0	0.45	0.2	-0.25	0.7	0.62	0	0	0	0	0	0
2/28/2025 10:35	52402	GRPA_T2	2	6	4	0.7	0.7	0	0	0	0	0	0	0	0	0
2/28/2025 10:35	20603	GRWO_T2	0	0	0	0	0	0	-1.96	-1.91	2	2	0	2100	2100	0
2/28/2025 10:35	60904	DONG_T2	7	6	-1	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
2/28/2025 10:35	60901	DONG_T2	6	9	3	0.47	0.44	-0.03	0	0	0	0	0	0	0	0
2/28/2025 10:35	20601	GRWO_T2	1	0	-1	1.6	0	-1.6	0	0	0	0	0	0	0	0
2/28/2025 10:37	52402	GRPA_T2	2	6	4	0.7	0.7	0	0	0	0	0	0	0	0	0
2/28/2025 10:37	52403	GRPA_T2	13	3	-10	0.49	0.57	0.08	-0.55	-0.54	0	0	0	0	0	0
2/28/2025 10:37	52401	GRPA_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
2/28/2025 10:38	46101	MACI_T2	0	0	0	0	0	0	-0.6	0.71	2	1	-1	2400	1200	-1200
2/28/2025 10:39	58201	NEWV_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
2/28/2025 10:39	22602	KIMB_T1	1	1	0	0.3	0.5	0.2	0.22	0.13	0	0	0	0	0	0
2/28/2025 10:39	52403	GRPA_T2	13	3	-10	0.49	0.57	0.08	-0.55	-0.54	0	0	0	0	0	0
2/28/2025 10:39	52401	GRPA_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
2/28/2025 10:39	25402	LAHA_T2	1	1	0	0.3	0	-0.3	-0.25	-0.19	0	0	0	0	0	0
2/28/2025 10:39	52402	GRPA_T2	2	6	4	0.7	0.7	0	0	0	0	0	0	0	0	0
2/28/2025 10:39	22601	KIMB_T1	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
2/28/2025 10:43	65601	QVIL_T2	22	19	-3	0.2	0.26	0.06	0	0	0	0	0	0	0	0
2/28/2025 10:43	65602	QVIL_T2	50	51	1	0.68	0.72	0.04	0	0	0	0	0	0	0	0
2/28/2025 10:43	65604	QVIL_T2	0	1	1	0	0.1	0.1	0.32	0.3	0	0	0	0	0	0
2/28/2025 10:44	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 10:46	67504	WEWI_T2	3	6	3	0.5	0.5	0	0	0	0	0	0	0	0	0
2/28/2025 10:46	67503	WEWI_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
2/28/2025 10:47	21705	SUBU_T1	2	1	-1	2.6	5.3	2.7	0	0	0	0	0	0	0	0
2/28/2025 10:47	21704	SUBU_T1	0	0	0	0	0	0	-2.46	-2.36	2	2	0	2400	2400	0
2/28/2025 10:47	21701	SUBU_T1	1	1	0	5.5	5.8	0.3	0	0	0	0	0	0	0	0
2/28/2025 10:48	10801	CHHI_T1	0	3	3	0	0.2	0.2	-0.72	-0.75	1	1	0	900	900	0
2/28/2025 10:50	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1	0	0	0	0	0	0
2/28/2025 10:52	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 10:52	17401	FOHI_T1	0	0	0	0	0	0	-1	-1.02	0	0	0	0	0	0
2/28/2025 10:52	10801	CHHI_T1	0	3	3	0	0.2	0.2	-0.75	-0.75	1	1	0	900	900	0
2/28/2025 10:52	40801	EXCH_T2	1	0	-1	0.1	0	-0.1	-0.5	-0.41	1	1	0	1200	1200	0
2/28/2025 10:52	40802	EXCH_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/28/2025 10:52	62102	ELAN_T1	1	1	0	0.8	0.1	-0.7	0.59	0.64	0	0	0	0	0	0
2/28/2025 10:52	62105	ELAN_T1	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
2/28/2025 10:52	21705	SUBU_T1	2	1	-1	2.6	5.3	2.7	0	0	0	0	0	0	0	0
2/28/2025 10:52	21701	SUBU_T1	1	1	0	5.5	5.8	0.3	0	0	0	0	0	0	0	0
2/28/2025 10:52	10805	CHHI_T2	1	2	1	8	8.2	0.2	-0.58	-0.51	0	0	0	0	0	0
2/28/2025 10:52	62103	ELAN_T1	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 10:53	62105	ELAN_T1	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
2/28/2025 10:53	62102	ELAN_T1	1	1	0	0.8	0.1	-0.7	0	0	0	0	0	0	0	0
2/28/2025 10:53	62103	ELAN_T1	1	1	0	0	0.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 10:53	62106	ELAN_T1	0	0	0	0	0	0	1.14	1.08	0	0	0	0	0	0
2/28/2025 10:54	24101	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 10:54	60903	DONG_T2	0	9	9	0	0.22	0.22	0.2	0.26	1	1	0	600	600	0
2/28/2025 10:54	60901	DONG_T2	1	10	9	0.6	0.41	-0.19	0	0	0	0	0	0	0	0
2/28/2025 10:54	24105	EHAZ_T1	4	4	0	6.08	6.3	0.22	0	0	0	0	0	0	0	0
2/28/2025 10:54	60904	DONG_T2	2	6	4	0.1	0.28	0.18	0	0	0	0	0	0	0	0
2/28/2025 10:54	24103	EHAZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 10:54	24104	EHAZ_T1	59	1	-58	0.3	0.5	0.2	-0.86	-0.86	1	1	0	1200	1200	0
2/28/2025 10:54	24102	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 10:54	60902	DONG_T2	1	5	4	0.2	0.2	0	0	0	0	0	0	0	0	0
2/28/2025 10:55	64701	LITI_T1	0	0	0	0	0	0	0.35	0.21	0	0	0	0	0	0
2/28/2025 10:56	65303	NBRI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
2/28/2025 10:56	65302	NBRI_T2	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
2/28/2025 10:57	47104	MARL_T1	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
2/28/2025 10:57	24102	EHAZ_T1	0	2	2	0	0	0	0.14	0.1	0	0	0	0	0	0
2/28/2025 10:57	24103	EHAZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 10:57	24101	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 10:57	47101	MARL_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
2/28/2025 10:57	24104	EHAZ_T1	59	1	-58	0.3	0.5	0.2	-0.86	-0.86	1	1	0	1200	1200	0
2/28/2025 10:57	24105	EHAZ_T1	4	4	0	6.08	6.3	0.22	0	0	0	0	0	0	0	0
2/28/2025 10:58	41204	KENM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 10:58	41205	KENM_T2	0	0	0	0	0	0	-0.06	-0.09	0	0	0	0	0	0
2/28/2025 10:58	44201	POIN_T1	146	272	126	0.27	0.41	0.14	-2.1	-2.05	2	2	0	2100	2100	0
2/28/2025 11:00	44201	POIN_T1	236	292	56	0.39	0.45	0.06	-2.1	-2.05	2	2	0	2100	2100	0
2/28/2025 11:01	52402	GRPA_T2	6	42	36	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
2/28/2025 11:01	52401	GRPA_T2	2	1	-1	0.45	0.7	0.25	0	0	0	0	0	0	0	0
2/28/2025 11:01	52403	GRPA_T2	2	3	1	0.75	0.37	-0.38	-0.54	-0.53	0	0	0	0	0	0
2/28/2025 11:01	44201	POIN_T1	236	292	56	0.39	0.45	0.06	-2.1	-2.05	2	2	0	2100	2100	0
2/28/2025 11:01	64101	REFR_T1	1	2	1	0.3	0.25	-0.05	-0.24	-0.22	0	0	0	0	0	0
2/28/2025 11:02	44601	SALE_T2	0	0	0	0	0	0	-0.17	-0.24	0	0	0	0	0	0
2/28/2025 11:02	64101	REFR_T1	1	2	1	0.3	0.25	-0.05	-0.12	-0.11	0	0	0	0	0	0
2/28/2025 11:04	14802	TREI_T2	1	3	2	0.3	0.17	-0.13	0.38	0.38	0	0	0	0	0	0
2/28/2025 11:04	14801	TREI_T2	5	5	0	0.42	0.54	0.12	0	0	0	0	0	0	0	0
2/28/2025 11:04	13303	ORVI_T1	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
2/28/2025 11:05	44901	SCOT_T2	101	188	87	0.25	0.36	0.11	0	0	0	0	0	0	0	0
2/28/2025 11:05	45902	AUBU_T1	1	4	3	0.1	0.23	0.13	0.01	0.01	1	1	0	600	600	0
2/28/2025 11:05	44902	SCOT_T2	753	759	6	0.69	0.67	-0.02	-0.95	-0.98	0	0	0	0	0	0
2/28/2025 11:06	44901	SCOT_T2	101	188	87	0.25	0.36	0.11	0.26	0.38	0	0	0	0	0	0
2/28/2025 11:06	13303	ORVI_T1	0	0	0	0	0	0	-0.31	-0.33	0	0	0	0	0	0
2/28/2025 11:06	45902	AUBU_T1	1	4	3	0.1	0.23	0.13	0.02	0.02	4	4	0	2400	2400	0
2/28/2025 11:06	44902	SCOT_T2	753	759	6	0.69	0.67	-0.02	-1.96	-2.02	0	0	0	0	0	0
2/28/2025 11:07	44902	SCOT_T2	753	759	6	0.69	0.67	-0.02	0	0	0	0	0	0	0	0
2/28/2025 11:07	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 11:07	44901	SCOT_T2	101	188	87	0.25	0.36	0.11	0.26	0.38	0	0	0	0	0	0
2/28/2025 11:07	45902	AUBU_T1	1	4	3	0.1	0.23	0.13	0.01	0.01	2	2	0	1200	1200	0
2/28/2025 11:08	63501	HEID_TBK1-2	81	151	70	0.31	0.35	0.04	-0.12	-0.13	1	1	0	900	900	0
2/28/2025 11:08	54601	SUMM_T2	5	8	3	0.56	0.69	0.13	-1.83	-1.88	2	2	0	2100	2100	0
2/28/2025 11:08	14802	TREI_T2	1	3	2	0.3	0.17	-0.13	0.76	0.76	0	0	0	0	0	0
2/28/2025 11:08	45902	AUBU_T1	1	4	3	0.1	0.23	0.13	0.01	0.01	1	1	0	600	600	0
2/28/2025 11:08	14801	TREI_T2	5	5	0	0.42	0.54	0.12	0	0	0	0	0	0	0	0
2/28/2025 11:09	44902	SCOT_T2	753	759	6	0.69	0.67	-0.02	0	0	0	0	0	0	0	0
2/28/2025 11:09	44901	SCOT_T2	101	188	87	0.25	0.36	0.11	0.26	0.38	0	0	0	0	0	0
2/28/2025 11:09	63501	HEID_TBK1-2	81	151	70	0.31	0.35	0.04	-0.24	-0.25	2	2	0	1800	1800	0
2/28/2025 11:10	63501	HEID_TBK1-2	81	151	70	0.31	0.35	0.04	-0.12	-0.13	1	1	0	900	900	0
2/28/2025 11:11	59101	WALK_T2	1	2	1	0.7	0.7	0	1.61	1.29	0	0	0	0	0	0
2/28/2025 11:12	10602	BLGL_T2	1	4	3	0.3	0.87	0.57	0.33	0.3	0	0	0	0	0	0
2/28/2025 11:14	21403	EXET_T2	0	0	0	0	0	0	-1.27	-1.31	0	0	0	0	0	0
2/28/2025 11:16	11302	EMMA_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
2/28/2025 11:16	11303	EMMA_T1	4	3	-1	0.33	0.97	0.64	0	0	0	0	0	0	0	0
2/28/2025 11:16	11301	EMMA_T1	0	0	0	0	0	0	-0.82	-0.86	0	0	0	0	0	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64203	KINZ_T1	0	0	0	0	0	0	0.06	-0.01	2	2	0	1800	1800	0
2/28/2025 11:17	64202	KINZ_T1	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
2/28/2025 11:17	64204	KINZ_T1	5	58	53	0.4	0.48	0.08	0	0	0	0	0	0	0	0
2/28/2025 11:17	64201	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/28/2025 11:18	64201	KINZ_T1	0	1	1	0	0.5	0.5	-0.2	-0.32	2	2	0	1200	1200	0
2/28/2025 11:18	11303	EMMA_T1	4	3	-1	0.33	0.97	0.64	0	0	0	0	0	0	0	0
2/28/2025 11:18	22601	KIMB_T1	2	2	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
2/28/2025 11:18	11302	EMMA_T1	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
2/28/2025 11:18	11301	EMMA_T1	0	0	0	0	0	0	-0.82	-0.86	0	0	0	0	0	0
2/28/2025 11:18	64204	KINZ_T1	5	58	53	0.4	0.48	0.08	0	0	0	0	0	0	0	0
2/28/2025 11:18	22602	KIMB_T1	1	2	1	0.3	0.3	0	0.2	0.13	0	0	0	0	0	0
2/28/2025 11:18	64202	KINZ_T1	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
2/28/2025 11:19	41202	KENM_T2	0	0	0	0	0	0	0.52	0.57	0	0	0	0	0	0
2/28/2025 11:20	57205	ROSS_T1	3	1	-2	0.8	0.8	0	0	0	0	0	0	0	0	0
2/28/2025 11:20	47101	MARL_T1	1	0	-1	0.3	0	-0.3	-0.13	-0.15	0	0	0	0	0	0
2/28/2025 11:20	57201	ROSS_T1	0	1	1	0	0.1	0.1	-0.59	-0.59	0	0	0	0	0	0
2/28/2025 11:21	57201	ROSS_T1	0	1	1	0	0.1	0.1	-0.59	-0.59	0	0	0	0	0	0
2/28/2025 11:21	57205	ROSS_T1	3	1	-2	0.8	0.8	0	0	0	0	0	0	0	0	0
2/28/2025 11:24	60301	TWVA_T2	0	1	1	0	0.1	0.1	-1.77	-1.75	2	2	0	1800	1800	0
2/28/2025 11:25	57201	ROSS_T1	0	1	1	0	0.1	0.1	-0.59	-0.5	0	0	0	0	0	0
2/28/2025 11:25	57205	ROSS_T1	3	1	-2	0.8	0.8	0	0	0	0	0	0	0	0	0
2/28/2025 11:27	60404	DILL_T2	1	2	1	7	6.2	-0.8	-0.02	1.24	1	0	-1	1200	0	-1200
2/28/2025 11:27	67303	WYOM_T2	0	0	0	0	0	0	-0.62	-0.64	0	0	0	0	0	0
2/28/2025 11:28	61703	ELIZ_T1	1	6	5	0.4	0.45	0.05	-2.09	-1.87	1	1	0	900	900	0
2/28/2025 11:28	46004	BERW_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
2/28/2025 11:28	61701	ELIZ_T1	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 11:28	46002	BERW_T2	0	0	0	0	0	0	-0.77	-0.77	1	1	0	900	900	0
2/28/2025 11:29	61701	ELIZ_T1	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 11:29	61703	ELIZ_T1	1	6	5	0.4	0.45	0.05	-4.17	-3.75	2	2	0	1800	1800	0
2/28/2025 11:30	61703	ELIZ_T1	6	4	-2	0.42	0.48	0.06	-2.09	-1.87	1	1	0	900	900	0
2/28/2025 11:30	61701	ELIZ_T1	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 11:32	61701	ELIZ_T1	1	1	0	5	5.2	0.2	0.92	0.93	0	0	0	0	0	0
2/28/2025 11:32	61703	ELIZ_T1	6	4	-2	0.42	0.48	0.06	-2.09	-1.87	1	1	0	900	900	0
2/28/2025 11:32	20601	GRWO_T2	0	0	0	0	0	0	0.72	0.75	0	0	0	0	0	0
2/28/2025 11:33	61703	ELIZ_T1	6	4	-2	0.42	0.48	0.06	-2.09	-1.87	1	1	0	900	900	0
2/28/2025 11:33	61701	ELIZ_T1	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 11:34	11302	EMMA_T1	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
2/28/2025 11:34	11303	EMMA_T1	3	2	-1	0.5	1.4	0.9	0	0	0	0	0	0	0	0
2/28/2025 11:36	11302	EMMA_T1	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
2/28/2025 11:36	11303	EMMA_T1	3	2	-1	0.5	1.4	0.9	0	0	0	0	0	0	0	0
2/28/2025 11:37	48301	ORWI_T1	2	2	0	5.5	5.6	0.1	-0.4	-0.45	1	1	0	900	900	0
2/28/2025 11:38	67901	WNHO_T2	0	0	0	0	0	0	0.94	0.99	0	0	0	0	0	0
2/28/2025 11:39	48301	ORWI_T1	2	2	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
2/28/2025 11:40	14802	TREI_T2	2	3	1	0.2	0.37	0.17	0.42	0.33	0	0	0	0	0	0
2/28/2025 11:40	14801	TREI_T2	5	5	0	0.46	0.52	0.06	0	0	0	0	0	0	0	0
2/28/2025 11:41	57403	SPAN_T1	18	7	-11	0.3	0.26	-0.04	0.04	0.05	0	0	0	0	0	0
2/28/2025 11:41	57401	SPAN_T1	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
2/28/2025 11:42	57401	SPAN_T1	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
2/28/2025 11:42	48301	ORWI_T1	2	2	0	5.5	5.6	0.1	-0.4	-0.45	1	1	0	900	900	0
2/28/2025 11:42	57403	SPAN_T1	18	7	-11	0.3	0.26	-0.04	0.04	0.05	0	0	0	0	0	0
2/28/2025 11:43	57404	SPAN_T2	0	0	0	0	0	0	-0.17	-0.21	1	1	0	1200	1200	0
2/28/2025 11:44	46004	BERW_T2	1	0	-1	0.4	0	-0.4	-0.73	-0.8	0	0	0	0	0	0
2/28/2025 11:45	42701	AUGU_T1	5	3	-2	0.52	0.77	0.25	0	0	4	4	0	3600	3600	0
2/28/2025 11:45	67303	WYOM_T2	0	0	0	0	0	0	-1.27	0.63	0	0	0	0	0	0
2/28/2025 11:45	52503	PROG_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/28/2025 11:45	52502	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 11:47	40802	EXCH_T2	1	1	0	0.3	0.7	0.4	0.02	0.07	0	0	0	0	0	0
2/28/2025 11:48	45802	HEGI_T2	13	19	6	0.27	0.42	0.15	0	0	0	0	0	0	0	0
2/28/2025 11:48	45501	DERR_T2	0	2	2	0	0.3	0.3	0.23	0.15	4	4	0	3600	3600	0
2/28/2025 11:48	46004	BERW_T2	0	0	0	0	0	0	-0.73	-0.8	0	0	0	0	0	0
2/28/2025 11:49	44502	HAMI_T2	1	1	0	3.4	3.6	0.2	0.05	0.06	0	0	0	0	0	0
2/28/2025 11:52	64101	REFR_T1	3	4	1	0.37	0.63	0.26	-0.13	-0.12	0	0	0	0	0	0
2/28/2025 11:52	44502	HAMI_T2	1	1	0	3.4	3.6	0.2	0	0	0	0	0	0	0	0
2/28/2025 11:52	44503	HAMI_T2	0	0	0	0	0	0	-2.21	-2.14	1	1	0	1200	1200	0
2/28/2025 11:53	57205	ROSS_T1	1	3	2	0.8	0.73	-0.07	0	0	0	0	0	0	0	0
2/28/2025 11:53	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 11:53	64101	REFR_T1	3	4	1	0.37	0.63	0.26	-0.39	-0.36	0	0	0	0	0	0
2/28/2025 11:54	24201	PROV_T3	3	3	0	5.83	5.9	0.07	-0.14	-0.09	0	0	0	0	0	0
2/28/2025 11:54	24204	PROV_T3	1	3	2	5.5	2.9	-2.6	0	0	0	0	0	0	0	0
2/28/2025 11:54	64101	REFR_T1	3	4	1	0.37	0.63	0.26	-0.26	-0.24	0	0	0	0	0	0
2/28/2025 11:57	64101	REFR_T1	3	4	1	0.37	0.63	0.26	-0.39	-0.36	0	0	0	0	0	0
2/28/2025 11:58	64101	REFR_T1	3	4	1	0.37	0.63	0.26	-0.13	-0.12	0	0	0	0	0	0
2/28/2025 12:00	44902	SCOT_T2	762	762	0	0.76	0.75	-0.01	0	0	0	0	0	0	0	0
2/28/2025 12:00	44901	SCOT_T2	257	265	8	0.38	0.41	0.03	0.1	0.35	0	0	0	0	0	0
2/28/2025 12:01	44904	SCOT_T1	0	0	0	0	0	0	0.74	0.77	0	0	0	0	0	0
2/28/2025 12:02	14802	TREI_T2	2	0	-2	0.3	0	-0.3	0.33	0.35	0	0	0	0	0	0
2/28/2025 12:02	14801	TREI_T2	3	5	2	0.17	0.5	0.33	0	0	0	0	0	0	0	0
2/28/2025 12:02	43402	BENT_T1	11	33	22	0.25	0.23	-0.02	-0.94	-0.93	1	1	0	900	900	0
2/28/2025 12:03	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 12:04	17804	GILB_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
2/28/2025 12:04	43402	BENT_T1	11	33	22	0.25	0.23	-0.02	-1.88	-1.86	2	2	0	1800	1800	0
2/28/2025 12:04	17803	GILB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 12:04	61701	ELIZ_T1	1	2	1	5.1	2.85	-2.25	0	0	0	0	0	0	0	0
2/28/2025 12:04	61703	ELIZ_T1	1	4	3	0.3	0.23	-0.07	-1.93	-1.92	1	1	0	900	900	0
2/28/2025 12:04	17805	GILB_T2	0	1	1	0	0.4	0.4	-0.02	0	0	0	0	0	0	0
2/28/2025 12:04	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 12:05	63803	HEMP_T1	2	2	0	0.35	0.5	0.15	0.09	0.1	0	0	0	0	0	0
2/28/2025 12:05	63804	HEMP_T1	2	1	-1	3.15	6.2	3.05	0	0	0	0	0	0	0	0
2/28/2025 12:05	63802	HEMP_T1	2	4	2	0.15	0.27	0.12	0	0	0	0	0	0	0	0
2/28/2025 12:05	63801	HEMP_T1	4	7	3	0.45	0.39	-0.06	0	0	0	0	0	0	0	0
2/28/2025 12:06	63802	HEMP_T1	2	4	2	0.15	0.27	0.12	0	0	0	0	0	0	0	0
2/28/2025 12:06	63801	HEMP_T1	4	7	3	0.45	0.39	-0.06	0	0	0	0	0	0	0	0
2/28/2025 12:06	63804	HEMP_T1	2	1	-1	3.15	6.2	3.05	0	0	0	0	0	0	0	0
2/28/2025 12:06	63803	HEMP_T1	2	2	0	0.35	0.5	0.15	0.1	0.08	0	0	0	0	0	0
2/28/2025 12:07	43402	BENT_T1	11	33	22	0.25	0.23	-0.02	-0.93	-0.94	1	1	0	900	900	0
2/28/2025 12:08	63802	HEMP_T1	2	4	2	0.15	0.27	0.12	0	0	0	0	0	0	0	0
2/28/2025 12:08	63803	HEMP_T1	2	2	0	0.35	0.5	0.15	0.1	0.08	0	0	0	0	0	0
2/28/2025 12:08	63804	HEMP_T1	2	1	-1	3.15	6.2	3.05	0	0	0	0	0	0	0	0
2/28/2025 12:08	25402	LAHA_T2	1	0	-1	0.3	0	-0.3	-0.25	-0.29	0	0	0	0	0	0
2/28/2025 12:08	63801	HEMP_T1	4	7	3	0.45	0.39	-0.06	0	0	0	0	0	0	0	0
2/28/2025 12:10	64204	KINZ_T1	1	23	22	0.8	0.41	-0.39	0	0	0	0	0	0	0	0
2/28/2025 12:10	64203	KINZ_T1	0	0	0	0	0	0	2.14	1.28	1	1	0	600	600	0
2/28/2025 12:10	64201	KINZ_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/28/2025 12:10	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 12:10	63202	MGTN_T2	3	2	-1	4.5	0	-4.5	0.04	-0.05	1	1	0	900	900	0
2/28/2025 12:12	13502	MCMI_T1	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
2/28/2025 12:12	44201	POIN_T1	244	281	37	0.43	0.47	0.04	-4.15	-4.15	4	4	0	4200	4200	0
2/28/2025 12:12	10101	ALLE_T3	2	2	0	5.65	5	-0.65	0	0	0	0	0	0	0	0
2/28/2025 12:12	10105	ALLE_T3	1	0	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
2/28/2025 12:12	13501	MCMI_T1	0	0	0	0	0	0	0.12	0.16	0	0	0	0	0	0
2/28/2025 12:12	10205	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 12:13	44201	POIN_T1	244	281	37	0.43	0.47	0.04	-4.15	-4.15	4	4	0	4200	4200	0
2/28/2025 12:14	57401	SPAN_T1	2	2	0	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
2/28/2025 12:14	57403	SPAN_T1	4	19	15	0.1	0.27	0.17	0	0.02	0	0	0	0	0	0
2/28/2025 12:14	14801	TREI_T2	3	5	2	0.17	0.5	0.33	0.35	0.33	0	0	0	0	0	0
2/28/2025 12:14	14802	TREI_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
2/28/2025 12:19	45501	DERR_T2	1	4	3	0.1	0.25	0.15	-0.01	0.01	2	2	0	1800	1800	0
2/28/2025 12:19	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 12:19	41602	CLEV_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/28/2025 12:19	57403	SPAN_T1	6	36	30	0.17	0.28	0.11	0	0.02	0	0	0	0	0	0
2/28/2025 12:19	57401	SPAN_T1	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 12:20	60201	ATGL_T2	0	0	0	0	0	0	0.57	0.66	0	0	0	0	0	0
2/28/2025 12:20	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 12:20	48901	FOSP_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/28/2025 12:20	50624	CCTY_T2	2	2	0	6.9	6.75	-0.15	0	0	0	0	0	0	0	0
2/28/2025 12:20	48902	FOSP_T2	1	2	1	0.2	0.15	-0.05	0.41	0.34	0	0	0	0	0	0
2/28/2025 12:20	50625	CCTY_T2	4	5	1	5.63	4.48	-1.15	0	0	1	1	0	1200	1200	0
2/28/2025 12:20	50623	CCTY_T2	6	6	0	6.78	6.02	-0.76	0	0	0	0	0	0	0	0
2/28/2025 12:20	54601	SUMM_T2	9	10	1	0.51	0.57	0.06	0	0	0	0	0	0	0	0
2/28/2025 12:21	40101	HUNT_T2	0	0	0	0	0	0	-0.13	-1.43	0	0	0	0	0	0
2/28/2025 12:21	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/28/2025 12:21	41602	CLEV_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/28/2025 12:21	62106	ELAN_T1	1	2	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
2/28/2025 12:21	45501	DERR_T2	1	4	3	0.1	0.25	0.15	0.01	-0.06	2	2	0	1800	1800	0
2/28/2025 12:21	42401	GIMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 12:21	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 12:21	62102	ELAN_T1	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
2/28/2025 12:21	62105	ELAN_T1	3	30	27	0.1	0.2	0.1	1.11	1.05	0	0	0	0	0	0
2/28/2025 12:22	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 12:22	48901	FOSP_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/28/2025 12:22	62103	ELAN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/28/2025 12:22	62105	ELAN_T1	3	30	27	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/28/2025 12:22	44505	HAMI_T2	0	2	2	0	0.25	0.25	-0.1	-0.08	0	0	0	0	0	0
2/28/2025 12:22	48902	FOSP_T2	1	2	1	0.2	0.15	-0.05	0.34	0.34	0	0	0	0	0	0
2/28/2025 12:22	62102	ELAN_T1	2	2	0	0.55	0.65	0.1	0.58	0.59	0	0	0	0	0	0
2/28/2025 12:22	44502	HAMI_T2	1	1	0	3.6	3.3	-0.3	0	0	0	0	0	0	0	0
2/28/2025 12:22	62106	ELAN_T1	1	2	1	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
2/28/2025 12:23	45501	DERR_T2	1	4	3	0.1	0.25	0.15	0.01	-0.06	2	2	0	1800	1800	0
2/28/2025 12:24	44502	HAMI_T2	1	1	0	3.6	3.3	-0.3	0	0	0	0	0	0	0	0
2/28/2025 12:24	44505	HAMI_T2	0	2	2	0	0.25	0.25	-0.1	-0.08	0	0	0	0	0	0
2/28/2025 12:26	52401	GRPA_T2	1	11	10	0.3	0.25	-0.05	-0.92	-0.94	0	0	0	0	0	0
2/28/2025 12:26	44502	HAMI_T2	1	1	0	3.6	3.3	-0.3	0	0	0	0	0	0	0	0
2/28/2025 12:26	52402	GRPA_T2	13	102	89	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/28/2025 12:26	52403	GRPA_T2	32	36	4	0.73	0.87	0.14	-0.51	-0.48	0	0	0	0	0	0
2/28/2025 12:26	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/28/2025 12:26	44505	HAMI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
2/28/2025 12:27	52401	GRPA_T2	1	11	10	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
2/28/2025 12:27	52403	GRPA_T2	32	36	4	0.73	0.87	0.14	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/28/2025 12:27	52402	GRPA_T2	13	102	89	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/28/2025 12:27	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	-0.01	0	0	0	0	0	0
2/28/2025 12:29	52403	GRPA_T2	32	36	4	0.73	0.87	0.14	-0.51	-0.48	0	0	0	0	0	0
2/28/2025 12:29	52401	GRPA_T2	1	11	10	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
2/28/2025 12:29	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/28/2025 12:29	52402	GRPA_T2	13	102	89	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/28/2025 12:30	57201	ROSS_T1	0	0	0	0	0	0	-0.71	-0.54	0	0	0	0	0	0
2/28/2025 12:30	64101	REFR_T1	6	9	3	0.33	0.73	0.4	-0.11	-0.14	0	0	0	0	0	0
2/28/2025 12:30	57205	ROSS_T1	1	4	3	0.6	0.83	0.23	0	0	0	0	0	0	0	0
2/28/2025 12:31	57201	ROSS_T1	0	0	0	0	0	0	-0.71	-0.54	0	0	0	0	0	0
2/28/2025 12:31	67901	WNHO_T2	0	0	0	0	0	0	0.59	0.64	0	0	0	0	0	0
2/28/2025 12:31	57205	ROSS_T1	1	4	3	0.6	0.83	0.23	0	0	0	0	0	0	0	0
2/28/2025 12:31	57203	ROSS_T1	0	0	0	0	0	0	-0.32	-0.36	0	0	0	0	0	0
2/28/2025 12:32	54601	SUMM_T2	8	10	2	0.61	0.55	-0.06	-1.79	-1.85	2	2	0	2100	2100	0
2/28/2025 12:33	57205	ROSS_T1	1	4	3	0.6	0.83	0.23	0	0	0	0	0	0	0	0
2/28/2025 12:33	57203	ROSS_T1	0	0	0	0	0	0	-0.32	-0.36	0	0	0	0	0	0
2/28/2025 12:35	67502	WEWI_T2	29	106	77	0.53	0.27	-0.26	0	0	0	0	0	0	0	0
2/28/2025 12:35	67503	WEWI_T2	3	5	2	0.3	0.36	0.06	0	0	0	0	0	0	0	0
2/28/2025 12:36	60404	DILL_T2	1	1	0	8.9	3.8	-5.1	1.21	0.94	0	0	0	0	0	0
2/28/2025 12:36	60201	ATGL_T2	0	0	0	0	0	0	0.65	0.74	0	0	0	0	0	0
2/28/2025 12:36	14802	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 12:36	14801	TREI_T2	2	4	2	0.7	0.6	-0.1	0.33	0.35	0	0	0	0	0	0
2/28/2025 12:37	61001	DONV_T1	2	2	0	0.9	0.4	-0.5	0	-0.03	0	0	0	0	0	0
2/28/2025 12:42	64901	MILL_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/28/2025 12:42	64904	MILL_T1	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
2/28/2025 12:44	47101	MARL_T1	0	1	1	0	1	1	-0.17	-0.18	0	0	0	0	0	0
2/28/2025 12:44	47104	MARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 12:45	47101	MARL_T1	1	1	0	0.5	1	0.5	-0.17	-0.18	0	0	0	0	0	0
2/28/2025 12:45	47104	MARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 12:46	65601	QVIL_T2	7	6	-1	0.29	0.32	0.03	0	0	0	0	0	0	0	0
2/28/2025 12:46	65602	QVIL_T2	54	54	0	0.56	0.58	0.02	0	0	0	0	0	0	0	0
2/28/2025 12:46	65603	QVIL_T2	0	9	9	0	0.19	0.19	0	0	0	0	0	0	0	0
2/28/2025 12:46	44202	POIN_T2	0	0	0	0	0	0	-0.56	-0.47	1	1	0	1200	1200	0
2/28/2025 12:46	65604	QVIL_T2	0	1	1	0	0.1	0.1	0.27	0.26	0	0	0	0	0	0
2/28/2025 12:47	47101	MARL_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
2/28/2025 12:47	47104	MARL_T1	0	1	1	0	0.1	0.1	-0.84	-0.81	0	0	0	0	0	0
2/28/2025 12:48	67605	WARW_T1	19	33	14	0.67	0.58	-0.09	-1.04	-1.06	0	0	0	0	0	0
2/28/2025 12:48	67603	WARW_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/28/2025 12:49	54201	PENN_T1	8	11	3	0.84	0.75	-0.09	0	0	0	0	0	0	0	0
2/28/2025 12:49	65602	QVIL_T2	54	54	0	0.56	0.58	0.02	0	0	0	0	0	0	0	0
2/28/2025 12:49	65601	QVIL_T2	7	6	-1	0.29	0.32	0.03	0	0	0	0	0	0	0	0
2/28/2025 12:49	65604	QVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 12:49	65603	QVIL_T2	0	9	9	0	0.19	0.19	0.08	0.12	0	0	0	0	0	0
2/28/2025 12:49	54203	PENN_T1	20	24	4	0.79	0.9	0.11	0.61	0.62	0	0	0	0	0	0
2/28/2025 12:50	67604	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 12:50	54203	PENN_T1	20	24	4	0.79	0.9	0.11	0	0	0	0	0	0	0	0
2/28/2025 12:50	67605	WARW_T1	19	33	14	0.67	0.58	-0.09	0	0	0	0	0	0	0	0
2/28/2025 12:50	67603	WARW_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/28/2025 12:50	54201	PENN_T1	8	11	3	0.84	0.75	-0.09	-0.01	0.05	0	0	0	0	0	0
2/28/2025 12:51	54203	PENN_T1	20	24	4	0.79	0.9	0.11	0	0	0	0	0	0	0	0
2/28/2025 12:51	65602	QVIL_T2	54	54	0	0.56	0.58	0.02	0	0	0	0	0	0	0	0
2/28/2025 12:51	67901	WNHO_T2	0	0	0	0	0	0	0.81	0.95	0	0	0	0	0	0
2/28/2025 12:51	65601	QVIL_T2	7	6	-1	0.29	0.32	0.03	0	0	0	0	0	0	0	0
2/28/2025 12:51	65604	QVIL_T2	0	1	1	0	0.1	0.1	0.26	0.25	0	0	0	0	0	0
2/28/2025 12:51	65603	QVIL_T2	0	9	9	0	0.19	0.19	0	0	0	0	0	0	0	0
2/28/2025 12:51	54201	PENN_T1	8	11	3	0.84	0.75	-0.09	-0.01	0.05	0	0	0	0	0	0
2/28/2025 12:53	54203	PENN_T1	20	24	4	0.79	0.9	0.11	0.62	0.63	0	0	0	0	0	0
2/28/2025 12:53	67605	WARW_T1	19	33	14	0.67	0.58	-0.09	0	0	0	0	0	0	0	0
2/28/2025 12:53	54201	PENN_T1	8	11	3	0.84	0.75	-0.09	0	0	0	0	0	0	0	0
2/28/2025 12:53	67603	WARW_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/28/2025 12:54	46203	DANV_T2	1	5	4	0.3	0.4	0.1	0.46	0.49	0	0	0	0	0	0
2/28/2025 12:59	64902	MILL_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
2/28/2025 12:59	64903	MILL_T2	0	72	72	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 13:02	13502	MCMI_T1	2	1	-1	0.65	0.3	-0.35	-0.16	-0.17	0	0	0	0	0	0
2/28/2025 13:04	44601	SALE_T2	0	0	0	0	0	0	-0.19	-0.04	0	0	0	0	0	0
2/28/2025 13:04	44203	POIN_T2	0	0	0	0	0	0	0.27	0.35	1	1	0	900	900	0
2/28/2025 13:05	44601	SALE_T2	0	0	0	0	0	0	-0.19	-0.04	0	0	0	0	0	0
2/28/2025 13:05	64101	REFR_T1	7	7	0	0.91	0.53	-0.38	0	0	0	0	0	0	0	0
2/28/2025 13:06	13501	MCMI_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
2/28/2025 13:06	13502	MCMI_T1	2	1	-1	0.65	0.3	-0.35	0	0	0	0	0	0	0	0
2/28/2025 13:07	64101	REFR_T1	7	7	0	0.91	0.53	-0.38	-0.28	-0.24	0	0	0	0	0	0
2/28/2025 13:08	54601	SUMM_T2	9	13	4	0.51	0.58	0.07	-1.8	-1.88	2	2	0	2100	2100	0
2/28/2025 13:08	67203	TEHI_T1	0	0	0	0	0	0	2.48	2.5	3	3	0	2100	2100	0
2/28/2025 13:08	67201	TEHI_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
2/28/2025 13:09	67603	WARW_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/28/2025 13:09	67605	WARW_T1	27	31	4	0.57	0.61	0.04	0	0	0	0	0	0	0	0
2/28/2025 13:11	41602	CLEV_T1	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/28/2025 13:11	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 13:12	44801	EDAN_T2	0	1	1	0	0.1	0.1	-0.46	-0.47	0	0	0	0	0	0
2/28/2025 13:13	64902	MILL_T2	0	0	0	0	0	0	0.19	0.22	0	0	0	0	0	0
2/28/2025 13:13	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 13:13	64903	MILL_T2	0	72	72	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 13:13	40802	EXCH_T2	1	1	0	0.4	0.9	0.5	-0.03	0.03	0	0	0	0	0	0
2/28/2025 13:13	41602	CLEV_T1	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/28/2025 13:14	61801	EELI_T2	1	5	4	0.6	0.34	-0.26	0	0	0	0	0	0	0	0
2/28/2025 13:14	61803	EELI_T2	0	1	1	0	0.4	0.4	0.87	0.92	0	0	0	0	0	0
2/28/2025 13:15	61801	EELI_T2	2	5	3	0.5	0.34	-0.16	0	0	0	0	0	0	0	0
2/28/2025 13:15	61803	EELI_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
2/28/2025 13:15	61802	EELI_T2	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
2/28/2025 13:16	40801	EXCH_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 13:16	40802	EXCH_T2	0	2	2	0	0.65	0.65	-0.03	0.03	0	0	0	0	0	0
2/28/2025 13:19	52403	GRPA_T2	34	32	-2	0.75	0.73	-0.02	0	0	0	0	0	0	0	0
2/28/2025 13:19	52402	GRPA_T2	99	45	-54	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
2/28/2025 13:19	52404	GRPA_T2	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
2/28/2025 13:19	52401	GRPA_T2	3	0	-3	0.2	0	-0.2	-0.82	-0.86	0	0	0	0	0	0
2/28/2025 13:20	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 13:20	10101	ALLE_T3	2	2	0	6.7	5.3	-1.4	0	0	0	0	0	0	0	0
2/28/2025 13:20	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 13:21	64101	REFR_T1	6	9	3	0.58	0.53	-0.05	0	0	0	0	0	0	0	0
2/28/2025 13:22	64903	MILL_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
2/28/2025 13:22	64101	REFR_T1	6	9	3	0.58	0.53	-0.05	-0.24	-0.3	0	0	0	0	0	0
2/28/2025 13:23	64101	REFR_T1	6	9	3	0.58	0.53	-0.05	-0.24	-0.3	0	0	0	0	0	0
2/28/2025 13:24	64101	REFR_T1	6	9	3	0.58	0.53	-0.05	-0.12	-0.15	0	0	0	0	0	0
2/28/2025 13:28	41602	CLEV_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
2/28/2025 13:28	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 13:30	54601	SUMM_T2	13	12	-1	0.52	0.68	0.16	0	0	0	0	0	0	0	0
2/28/2025 13:30	54602	SUMM_T2	0	0	0	0	0	0	-2.51	-2.49	1	1	0	600	600	0
2/28/2025 13:31	46002	BERW_T2	0	0	0	0	0	0	-0.81	-0.87	1	1	0	900	900	0
2/28/2025 13:31	46004	BERW_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
2/28/2025 13:32	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 13:32	41602	CLEV_T1	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/28/2025 13:33	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 13:33	41602	CLEV_T1	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
2/28/2025 13:35	46802	HEPB_T1	1	15	14	2	0.25	-1.75	-1.38	-1.36	0	0	0	0	0	0
2/28/2025 13:39	52404	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
2/28/2025 13:39	52403	GRPA_T2	31	28	-3	0.69	0.84	0.15	-0.46	-0.5	0	0	0	0	0	0
2/28/2025 13:39	52402	GRPA_T2	22	46	24	0.55	0.39	-0.16	0	0	0	0	0	0	0	0
2/28/2025 13:39	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 13:40	57205	ROSS_T1	4	5	1	0.93	1	0.07	0.09	0.19	0	0	0	0	0	0
2/28/2025 13:40	57201	ROSS_T1	1	5	4	0.2	0.26	0.06	0	0	0	0	0	0	0	0
2/28/2025 13:40	13302	ORVI_T2	1	4	3	2.9	0.95	-1.95	1.34	1.26	0	0	0	0	0	0
2/28/2025 13:45	44801	EDAN_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
2/28/2025 13:46	20401	ASHF_T2	4	5	1	0.2	0.3	0.1	0.31	0.29	0	0	0	0	0	0
2/28/2025 13:46	52002	LING_T2	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
2/28/2025 13:46	52004	LING_T2	5	7	2	3.02	2.47	-0.55	0.26	0.21	0	0	0	0	0	0
2/28/2025 13:46	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 13:46	20403	ASHF_T2	12	22	10	0.43	0.41	-0.02	0	0	0	0	0	0	0	0
2/28/2025 13:46	52006	LING_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 13:47	43402	BENT_T1	97	95	-2	0.5	0.48	-0.02	-0.96	-0.95	1	1	0	900	900	0
2/28/2025 13:49	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 13:49	20403	ASHF_T2	12	22	10	0.43	0.41	-0.02	0	0	0	0	0	0	0	0
2/28/2025 13:49	20401	ASHF_T2	4	5	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/28/2025 13:50	40802	EXCH_T2	2	2	0	0.65	0.35	-0.3	0	0	0	0	0	0	0	0
2/28/2025 13:50	40801	EXCH_T2	1	1	0	0.2	0.1	-0.1	-0.55	-0.53	1	1	0	1200	1200	0
2/28/2025 13:52	41002	LAUR_T2	30	45	15	0.27	0.36	0.09	0	0	0	0	0	0	0	0
2/28/2025 13:52	41001	LAUR_T2	75	79	4	0.28	0.41	0.13	0	0	0	0	0	0	0	0
2/28/2025 13:57	62101	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/28/2025 13:57	62102	ELAN_T1	3	1	-2	0.57	1	0.43	0	0	0	0	0	0	0	0
2/28/2025 13:57	62105	ELAN_T1	68	134	66	0.11	0.15	0.04	0.36	0.34	0	0	0	0	0	0
2/28/2025 13:57	62106	ELAN_T1	4	5	1	0.3	0.44	0.14	0	0	0	0	0	0	0	0
2/28/2025 13:57	62103	ELAN_T1	1	4	3	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
2/28/2025 13:58	62102	ELAN_T1	3	1	-2	0.57	1	0.43	0	0	0	0	0	0	0	0
2/28/2025 13:58	62101	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/28/2025 13:58	62106	ELAN_T1	4	5	1	0.3	0.44	0.14	0	0	0	0	0	0	0	0
2/28/2025 13:58	62105	ELAN_T1	68	134	66	0.11	0.15	0.04	0.36	0.34	0	0	0	0	0	0
2/28/2025 13:58	62103	ELAN_T1	1	4	3	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
2/28/2025 13:59	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/28/2025 14:00	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/28/2025 14:01	52503	PROG_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/28/2025 14:01	52502	PROG_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/28/2025 14:02	57401	SPAN_T1	3	2	-1	0.73	1	0.27	0	0	0	0	0	0	0	0
2/28/2025 14:02	57403	SPAN_T1	30	31	1	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
2/28/2025 14:02	52503	PROG_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/28/2025 14:02	59201	THOM_T1	5	13	8	0.3	0.34	0.04	0	0	0	0	0	0	0	0
2/28/2025 14:02	59202	THOM_T1	50	225	175	0.29	0.22	-0.07	0	0	0	0	0	0	0	0
2/28/2025 14:02	47103	MARL_T2	3	13	10	0.33	0.2	-0.13	-0.5	-0.45	0	0	0	0	0	0
2/28/2025 14:02	52502	PROG_T2	1	0	-1	0.2	0	-0.2	0.6	0.6	0	0	0	0	0	0
2/28/2025 14:02	47102	MARL_T2	5	8	3	0.36	0.48	0.12	0	0	0	0	0	0	0	0
2/28/2025 14:03	52503	PROG_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/28/2025 14:03	52502	PROG_T2	1	0	-1	0.2	0	-0.2	0.3	0.3	0	0	0	0	0	0
2/28/2025 14:03	59201	THOM_T1	5	13	8	0.3	0.34	0.04	0	0	0	0	0	0	0	0
2/28/2025 14:03	59202	THOM_T1	50	225	175	0.29	0.22	-0.07	0	0	0	0	0	0	0	0
2/28/2025 14:04	59202	THOM_T1	50	225	175	0.29	0.22	-0.07	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/28/2025 14:04	59201	THOM_T1	5	13	8	0.3	0.34	0.04	0	0	0	0	0	0	0	0
2/28/2025 14:05	45501	DERR_T2	0	0	0	0	0	0	-0.22	-0.22	2	2	0	1800	1800	0
2/28/2025 14:05	44301	BEAV_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
2/28/2025 14:05	59202	THOM_T1	50	225	175	0.29	0.22	-0.07	0	0	0	0	0	0	0	0
2/28/2025 14:05	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/28/2025 14:05	59201	THOM_T1	5	13	8	0.3	0.34	0.04	0	0	0	0	0	0	0	0
2/28/2025 14:05	44302	BEAV_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
2/28/2025 14:05	52503	PROG_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/28/2025 14:05	52502	PROG_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/28/2025 14:06	44301	BEAV_T2	2	1	-1	0.15	0.1	-0.05	0.59	0.02	1	1	0	600	600	0
2/28/2025 14:06	57401	SPAN_T1	3	2	-1	0.73	1	0.27	0	0	0	0	0	0	0	0
2/28/2025 14:06	44302	BEAV_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
2/28/2025 14:06	52503	PROG_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/28/2025 14:06	57403	SPAN_T1	30	31	1	0.32	0.31	-0.01	0	0	0	0	0	0	0	0
2/28/2025 14:06	57402	SPAN_T2	2	2	0	0.1	0.1	0	-0.57	-0.57	0	0	0	0	0	0
2/28/2025 14:06	52502	PROG_T2	1	0	-1	0.2	0	-0.2	0.3	0.3	0	0	0	0	0	0
2/28/2025 14:07	52503	PROG_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
2/28/2025 14:07	52502	PROG_T2	1	0	-1	0.2	0	-0.2	0.3	0.3	0	0	0	0	0	0
2/28/2025 14:09	45501	DERR_T2	0	0	0	0	0	0	-0.22	-0.18	2	2	0	1800	1800	0
2/28/2025 14:10	45502	DERR_T2	0	0	0	0	0	0	-0.61	-0.63	0	0	0	0	0	0
2/28/2025 14:11	24103	EHAZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 14:11	24105	EHAZ_T1	4	4	0	5.7	5.58	-0.12	-2.09	-2.18	1	1	0	1200	1200	0
2/28/2025 14:11	24102	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 14:11	24101	EHAZ_T1	5	5	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
2/28/2025 14:11	24104	EHAZ_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
2/28/2025 14:19	52501	PROG_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 14:19	43802	SWIL_T1	0	0	0	0	0	0	-0.21	-0.24	1	1	0	600	600	0
2/28/2025 14:19	43801	SWIL_T1	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
2/28/2025 14:20	52501	PROG_T1	0	1	1	0	0.1	0.1	1.24	0.94	2	2	0	600	600	0
2/28/2025 14:22	52502	PROG_T2	0	0	0	0	0	0	0.3	0.23	0	0	0	0	0	0
2/28/2025 14:22	52501	PROG_T1	0	1	1	0	0.1	0.1	0.47	0.5	1	1	0	300	300	0
2/28/2025 14:24	52501	PROG_T1	0	1	1	0	0.1	0.1	0.47	0.5	1	1	0	300	300	0
2/28/2025 14:24	10903	COOP_T2	5	5	0	0.5	0.52	0.02	0	0	0	0	0	0	0	0
2/28/2025 14:24	52502	PROG_T2	0	0	0	0	0	0	0.3	0.23	0	0	0	0	0	0
2/28/2025 14:29	58401	MORO_T1	0	6	6	0	0.38	0.38	0	0	0	0	0	0	0	0
2/28/2025 14:30	64901	MILL_T1	4	46	42	0.1	0.14	0.04	0	0	0	0	0	0	0	0
2/28/2025 14:30	64904	MILL_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
2/28/2025 14:31	64904	MILL_T1	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
2/28/2025 14:31	64901	MILL_T1	4	46	42	0.1	0.14	0.04	0	0	0	0	0	0	0	0
2/28/2025 14:35	67106	SPRI_T2	2	1	-1	0.2	0	-0.2	-1.32	-1.31	1	1	0	900	900	0
2/28/2025 14:35	67101	SPRI_T2	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
2/28/2025 14:37	67106	SPRI_T2	2	1	-1	0.2	0	-0.2	-1.31	-1.31	1	1	0	900	900	0
2/28/2025 14:37	67101	SPRI_T2	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
2/28/2025 14:38	54601	SUMM_T2	10	10	0	0.85	0.98	0.13	0	0	0	0	0	0	0	0
2/28/2025 14:38	67106	SPRI_T2	2	1	-1	0.2	0	-0.2	-1.31	-1.31	1	1	0	900	900	0
2/28/2025 14:38	67101	SPRI_T2	1	1	0	1.4	1	-0.4	0	0	0	0	0	0	0	0
2/28/2025 14:38	54602	SUMM_T2	0	6	6	0	0.15	0.15	0	0	0	0	0	0	0	0
2/28/2025 14:39	54602	SUMM_T2	0	6	6	0	0.15	0.15	-2.53	-2.54	1	1	0	600	600	0
2/28/2025 14:39	54601	SUMM_T2	10	10	0	0.85	0.98	0.13	0	0	0	0	0	0	0	0
2/28/2025 14:39	67401	WAKE_T2	64	163	99	0.3	0.28	-0.02	-1.03	-1.08	0	0	0	0	0	0
2/28/2025 14:39	67402	WAKE_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/28/2025 14:40	67402	WAKE_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/28/2025 14:40	67401	WAKE_T2	64	163	99	0.3	0.28	-0.02	-1.03	-1.08	0	0	0	0	0	0
2/28/2025 14:40	54602	SUMM_T2	0	6	6	0	0.15	0.15	-2.53	-2.54	1	1	0	600	600	0
2/28/2025 14:40	54601	SUMM_T2	10	10	0	0.85	0.98	0.13	0	0	0	0	0	0	0	0
2/28/2025 14:41	67401	WAKE_T2	64	163	99	0.3	0.28	-0.02	-1.03	-1.08	0	0	0	0	0	0
2/28/2025 14:41	44801	EDAN_T2	0	1	1	0	0.1	0.1	-0.48	-0.46	0	0	0	0	0	0
2/28/2025 14:41	67402	WAKE_T2	1	2	1	0.2	0.4	0.2	0.2	0.21	0	0	0	0	0	0
2/28/2025 14:42	44302	BEAV_T2	4	1	-3	0.23	0.2	-0.03	0.24	0.26	0	0	0	0	0	0
2/28/2025 14:42	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/28/2025 14:43	67401	WAKE_T2	64	163	99	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
2/28/2025 14:43	67402	WAKE_T2	1	2	1	0.2	0.4	0.2	0.2	0.21	0	0	0	0	0	0
2/28/2025 14:43	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/28/2025 14:43	44302	BEAV_T2	4	1	-3	0.23	0.2	-0.03	0.24	0.26	0	0	0	0	0	0
2/28/2025 14:45	44302	BEAV_T2	1	2	1	0.2	0.2	0	0.24	0.26	0	0	0	0	0	0
2/28/2025 14:45	44301	BEAV_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/28/2025 14:46	67402	WAKE_T2	1	2	1	0.1	0.4	0.3	0.2	0.21	0	0	0	0	0	0
2/28/2025 14:46	67401	WAKE_T2	74	163	89	0.28	0.28	0	0	0	0	0	0	0	0	0
2/28/2025 14:49	57205	ROSS_T1	5	4	-1	1	0.95	-0.05	0	0	0	0	0	0	0	0
2/28/2025 14:49	57203	ROSS_T1	1	0	-1	0.3	0	-0.3	-0.38	-0.38	0	0	0	0	0	0
2/28/2025 14:49	57201	ROSS_T1	11	5	-6	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
2/28/2025 14:52	64101	REFR_T1	13	19	6	0.38	0.32	-0.06	-0.16	-0.12	0	0	0	0	0	0
2/28/2025 14:52	65602	QVIL_T2	55	58	3	0.69	0.55	-0.14	0	0	0	0	0	0	0	0
2/28/2025 14:52	65603	QVIL_T2	5	18	13	0.18	0.21	0.03	0.11	0.13	0	0	0	0	0	0
2/28/2025 14:52	65601	QVIL_T2	2	10	8	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
2/28/2025 14:52	65604	QVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 14:53	57203	ROSS_T1	1	0	-1	0.3	0	-0.3	-0.38	-0.36	0	0	0	0	0	0
2/28/2025 14:53	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/28/2025 14:53	57201	ROSS_T1	11	5	-6	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
2/28/2025 14:53	57205	ROSS_T1	5	4	-1	1	0.95	-0.05	0	0	0	0	0	0	0	0
2/28/2025 14:54	57203	ROSS_T1	1	0	-1	0.3	0	-0.3	-0.38	-0.36	0	0	0	0	0	0
2/28/2025 14:54	57201	ROSS_T1	11	5	-6	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
2/28/2025 14:54	57205	ROSS_T1	5	4	-1	1	0.95	-0.05	0	0	0	0	0	0	0	0
2/28/2025 14:54	66903	SHIL_T2	0	0	0	0	0	0	-1.19	-1.2	0	0	0	0	0	0
2/28/2025 14:55	66903	SHIL_T2	0	0	0	0	0	0	-2.38	-2.4	0	0	0	0	0	0
2/28/2025 14:56	66903	SHIL_T2	0	0	0	0	0	0	-1.19	-1.2	0	0	0	0	0	0
2/28/2025 14:57	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/28/2025 14:57	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 14:58	44302	BEAV_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/28/2025 14:58	44301	BEAV_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
2/28/2025 15:04	58202	NEWV_T1	0	0	0	0	0	0	0.46	0.58	0	0	0	0	0	0
2/28/2025 15:08	58202	NEWV_T1	0	0	0	0	0	0	1.16	1.04	0	0	0	0	0	0
2/28/2025 15:09	13503	MCMI_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
2/28/2025 15:11	13503	MCMI_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
2/28/2025 15:13	59202	THOM_T1	258	490	232	0.25	0.41	0.16	0	0	0	0	0	0	0	0
2/28/2025 15:13	59201	THOM_T1	23	49	26	0.3	0.41	0.11	0	0	0	0	0	0	0	0
2/28/2025 15:16	67401	WAKE_T2	109	103	-6	0.27	0.22	-0.05	-2.27	-2.19	0	0	0	0	0	0
2/28/2025 15:16	67402	WAKE_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
2/28/2025 15:17	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 15:18	67402	WAKE_T2	1	2	1	0.1	0.25	0.15	0.52	0.46	0	0	0	0	0	0
2/28/2025 15:18	67401	WAKE_T2	109	103	-6	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
2/28/2025 15:19	44302	BEAV_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/28/2025 15:19	67401	WAKE_T2	109	103	-6	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
2/28/2025 15:19	44301	BEAV_T2	1	0	-1	0.6	0	-0.6	-0.26	-0.25	1	1	0	600	600	0
2/28/2025 15:19	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 15:19	41801	GOCI_T2	139	156	17	0.25	0.29	0.04	0	0	0	0	0	0	0	0
2/28/2025 15:19	67402	WAKE_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
2/28/2025 15:19	41802	GOCI_T2	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
2/28/2025 15:20	44301	BEAV_T2	1	0	-1	0.6	0	-0.6	-0.26	-0.25	1	1	0	600	600	0
2/28/2025 15:20	44302	BEAV_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/28/2025 15:24	52403	GRPA_T2	16	18	2	0.48	0.42	-0.06	-0.53	-0.45	0	0	0	0	0	0
2/28/2025 15:24	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 15:24	52404	GRPA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
2/28/2025 15:24	52402	GRPA_T2	10	7	-3	1.06	1.09	0.03	0	0	0	0	0	0	0	0
2/28/2025 15:24	52401	GRPA_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/28/2025 15:24	64201	KINZ_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/28/2025 15:24	64204	KINZ_T1	70	20	-50	0.76	0.53	-0.23	0	0	0	0	0	0	0	0
2/28/2025 15:24	64202	KINZ_T1	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
2/28/2025 15:28	52402	GRPA_T2	10	7	-3	1.06	1.09	0.03	0	0	0	0	0	0	0	0
2/28/2025 15:28	64204	KINZ_T1	70	20	-50	0.76	0.53	-0.23	0	0	0	0	0	0	0	0
2/28/2025 15:28	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 15:28	52404	GRPA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
2/28/2025 15:28	52403	GRPA_T2	16	18	2	0.48	0.42	-0.06	-0.53	-0.45	0	0	0	0	0	0
2/28/2025 15:28	64201	KINZ_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
2/28/2025 15:28	64202	KINZ_T1	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
2/28/2025 15:28	52401	GRPA_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
2/28/2025 15:38	45501	DERR_T2	0	0	0	0	0	0	0.8	0.88	1	1	0	600	600	0
2/28/2025 15:40	45501	DERR_T2	0	0	0	0	0	0	0.8	0.88	1	1	0	600	600	0
2/28/2025 15:42	60901	DONG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/28/2025 15:42	60902	DONG_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
2/28/2025 15:42	60903	DONG_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
2/28/2025 15:42	43202	MVIL_T2	55	36	-19	0.34	0.16	-0.18	-0.71	-0.67	0	0	0	0	0	0
2/28/2025 15:43	43202	MVIL_T2	55	36	-19	0.34	0.16	-0.18	-0.71	-0.67	0	0	0	0	0	0
2/28/2025 15:44	43202	MVIL_T2	55	36	-19	0.34	0.16	-0.18	-0.71	-0.67	0	0	0	0	0	0
2/28/2025 15:45	43202	MVIL_T2	36	2	-34	0.16	0.15	-0.01	-0.71	-0.67	0	0	0	0	0	0
2/28/2025 15:47	44701	MUNC_T2	1	1	0	0.1	0.1	0	-1.22	-1.29	0	0	0	0	0	0
2/28/2025 15:47	44703	MUNC_T2	1	1	0	1.8	1.6	-0.2	0	0	0	0	0	0	0	0
2/28/2025 15:55	17802	GILB_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
2/28/2025 16:00	62106	ELAN_T1	1	0	-1	0.2	0	-0.2	-0.02	-0.03	0	0	0	0	0	0
2/28/2025 16:01	58401	MORO_T1	0	0	0	0	0	0	-2.36	-2.42	2	2	0	1200	1200	0
2/28/2025 16:02	58401	MORO_T1	0	0	0	0	0	0	-1.18	-1.21	1	1	0	600	600	0
2/28/2025 16:03	57201	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/28/2025 16:03	58401	MORO_T1	0	0	0	0	0	0	-1.18	-1.21	1	1	0	600	600	0
2/28/2025 16:03	57205	ROSS_T1	2	1	-1	0.35	0.2	-0.15	0.09	0.09	0	0	0	0	0	0
2/28/2025 16:04	58401	MORO_T1	0	0	0	0	0	0	-1.18	-1.21	1	1	0	600	600	0
2/28/2025 16:04	57203	ROSS_T1	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
2/28/2025 16:04	62106	ELAN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/28/2025 16:04	57201	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/28/2025 16:04	57205	ROSS_T1	2	1	-1	0.35	0.2	-0.15	0.09	0.09	0	0	0	0	0	0
2/28/2025 16:06	58401	MORO_T1	0	0	0	0	0	0	-1.18	-1.21	1	1	0	600	600	0
2/28/2025 16:19	63404	HONY_T1	91	54	-37	0.38	0.21	-0.17	0	0	0	0	0	0	0	0
2/28/2025 16:19	63401	HONY_T1	0	0	0	0	0	0	0.37	0.58	0	0	0	0	0	0
2/28/2025 16:20	63404	HONY_T1	91	54	-37	0.38	0.21	-0.17	0	0	0	0	0	0	0	0
2/28/2025 16:20	63401	HONY_T1	0	0	0	0	0	0	0.37	0.58	0	0	0	0	0	0
2/28/2025 16:21	63401	HONY_T1	0	0	0	0	0	0	0.58	0.48	0	0	0	0	0	0
2/28/2025 16:21	63404	HONY_T1	91	54	-37	0.38	0.21	-0.17	0	0	0	0	0	0	0	0
2/28/2025 16:27	47104	MARL_T1	0	0	0	0	0	0	-0.94	-0.98	0	0	0	0	0	0
2/28/2025 16:45	57201	ROSS_T1	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
2/28/2025 16:51	54203	PENN_T1	18	18	0	0.91	0.73	-0.18	0	0	0	0	0	0	0	0
2/28/2025 16:51	54201	PENN_T1	8	4	-4	0.85	0.98	0.13	0.04	0.08	0	0	0	0	0	0
2/28/2025 16:56	61304	EARL_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
2/28/2025 16:57	64701	LITI_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
2/28/2025 17:00	46602	LACR_T1	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/28/2025 17:10	67605	WARW_T1	12	4	-8	0.37	0.2	-0.17	-0.84	-0.74	0	0	0	0	0	0
2/28/2025 17:11	60803	BUCK_T1	3	2	-1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
2/28/2025 17:11	60801	BUCK_T1	16	14	-2	0.18	0.16	-0.02	-0.26	-0.26	0	0	0	0	0	0
2/28/2025 17:12	14801	TREI_T2	1	1	0	0	0	0	0.35	0.38	0	0	0	0	0	0
2/28/2025 17:13	67502	WEWI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/28/2025 17:35	40502	CRES_T2	34	40	6	0.42	0.46	0.04	0	0	0	0	0	0	0	0
2/28/2025 17:35	40501	CRES_T2	6	11	5	0.27	0.27	0	0	0	0	0	0	0	0	0
2/28/2025 17:36	57205	ROSS_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
2/28/2025 17:38	57205	ROSS_T1	0	0	0	0	0	0	0.11	0.08	0	0	0	0	0	0
2/28/2025 17:41	57201	ROSS_T1	0	0	0	0	0	0	-0.39	-0.37	0	0	0	0	0	0
2/28/2025 17:51	62102	ELAN_T1	0	0	0	0	0	0	0.7	0.57	0	0	0	0	0	0
2/28/2025 18:49	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 18:54	63803	HEMP_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
2/28/2025 18:54	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
2/28/2025 19:11	55002	NEWP_T1	3	4	1	0.6	0.68	0.08	-0.26	-0.25	0	0	0	0	0	0
2/28/2025 19:28	60701	BREC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 19:29	60701	BREC_T1	0	0	0	0	0	0	-2.22	-2.17	4	4	0	2400	2400	0
2/28/2025 19:30	60701	BREC_T1	0	0	0	0	0	0	-2.77	-2.72	5	5	0	3000	3000	0
2/28/2025 19:33	60701	BREC_T1	0	0	0	0	0	0	-0.55	-0.54	1	1	0	600	600	0
2/28/2025 19:38	58302	NOTT_T1	0	0	0	0	0	0	-0.49	-0.45	1	1	0	1200	1200	0
2/28/2025 19:43	65503	MOJO_T2	0	0	0	0	0	0	-0.24	-0.18	0	0	0	0	0	0
2/28/2025 19:46	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 19:50	24202	PROV_T4	9	16	7	0.14	0.14	0	-0.83	-0.86	1	1	0	1200	1200	0
2/28/2025 19:50	44302	BEAV_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
2/28/2025 19:51	17802	GILB_T1	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
2/28/2025 19:51	21403	EXET_T2	0	0	0	0	0	0	-1.37	-1.38	0	0	0	0	0	0
2/28/2025 19:52	24101	EHAZ_T1	2	2	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
2/28/2025 19:52	24902	WHHA_T1	8	20	12	0.78	1.13	0.35	0.78	0.79	0	0	0	0	0	0
2/28/2025 19:52	13502	MCMI_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
2/28/2025 19:52	21705	SUBU_T1	2	2	0	5.5	5	-0.5	0	0	0	0	0	0	0	0
2/28/2025 19:52	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 19:52	24105	EHAZ_T1	4	4	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
2/28/2025 19:52	24102	EHAZ_T1	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
2/28/2025 19:52	47101	MARL_T1	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
2/28/2025 19:52	10805	CHHI_T2	1	1	0	7.4	7.6	0.2	-1.19	-1.22	1	1	0	600	600	0
2/28/2025 19:52	47104	MARL_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
2/28/2025 19:52	21701	SUBU_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
2/28/2025 19:52	24103	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 19:53	13503	MCMI_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
2/28/2025 19:53	46602	LACL_T1	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
2/28/2025 19:53	21701	SUBU_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
2/28/2025 19:53	21705	SUBU_T1	2	2	0	5.5	5	-0.5	0	0	0	0	0	0	0	0
2/28/2025 19:53	21704	SUBU_T1	0	0	0	0	0	0	-1.15	-1.28	1	1	0	1200	1200	0
2/28/2025 19:53	46802	HEPB_T1	1	1	0	1.6	1.8	0.2	-1.35	-1.3	0	0	0	0	0	0
2/28/2025 19:54	46002	BERW_T2	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
2/28/2025 19:54	44701	MUNC_T2	0	1	1	0	0.1	0.1	-1.39	-1.35	0	0	0	0	0	0
2/28/2025 19:54	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
2/28/2025 19:54	14801	TREI_T2	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
2/28/2025 19:54	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 19:54	14802	TREI_T2	0	0	0	0	0	0	0.43	0.46	0	0	0	0	0	0
2/28/2025 19:54	13501	MCMI_T1	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
2/28/2025 19:54	44703	MUNC_T2	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
2/28/2025 19:54	44601	SALE_T2	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
2/28/2025 19:54	20401	ASHF_T2	0	0	0	0	0	0	0.34	0.32	0	0	0	0	0	0
2/28/2025 19:54	46004	BERW_T2	3	2	-1	1.3	0	-1.3	0	0	0	0	0	0	0	0
2/28/2025 19:55	25402	LAHA_T2	2	2	0	0.25	0.3	0.05	-0.72	-0.76	0	0	0	0	0	0
2/28/2025 19:55	41202	KENM_T2	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
2/28/2025 19:55	47104	MARL_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
2/28/2025 19:55	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/28/2025 19:55	47101	MARL_T1	1	1	0	0.9	0	-0.9	-0.14	-0.07	0	0	0	0	0	0
2/28/2025 19:56	43202	MVIL_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
2/28/2025 19:56	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	2	2	0	1200	1200	0
2/28/2025 19:56	41305	FISH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 19:56	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 19:56	43301	WATS_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
2/28/2025 19:56	44201	POIN_T1	0	0	0	0	0	0	-2.01	-2.04	2	2	0	2100	2100	0
2/28/2025 19:56	43302	WATS_T2	4	3	-1	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
2/28/2025 19:56	41301	FISH_T1	6	55	49	0.43	0.2	-0.23	-0.38	-0.42	0	0	0	0	0	0
2/28/2025 19:56	10602	BLGL_T2	0	0	0	0	0	0	0.12	0.08	0	0	0	0	0	0
2/28/2025 19:57	64204	KINZ_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
2/28/2025 19:57	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 19:57	44601	SALE_T2	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
2/28/2025 19:57	43402	BENT_T1	0	0	0	0	0	0	-1.9	-1.88	2	2	0	1800	1800	0
2/28/2025 19:57	44901	SCOT_T2	27	25	-2	0.33	0.36	0.03	0.01	0.01	0	0	0	0	0	0
2/28/2025 19:57	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/28/2025 19:57	45501	DERR_T2	0	0	0	0	0	0	0.3	0.07	1	1	0	600	600	0
2/28/2025 19:57	46004	BERW_T2	3	2	-1	1.3	0	-1.3	-0.79	-0.81	0	0	0	0	0	0
2/28/2025 19:57	44902	SCOT_T2	741	747	6	0.61	0.62	0.01	0	0	0	0	0	0	0	0
2/28/2025 19:57	64201	KINZ_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
2/28/2025 19:58	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 19:58	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 19:58	41305	FISH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 19:58	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
2/28/2025 19:58	41301	FISH_T1	6	55	49	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
2/28/2025 19:58	22602	KIMB_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
2/28/2025 19:58	17401	FOHI_T1	0	1	1	0	0	0	-0.99	-1	0	0	0	0	0	0
2/28/2025 19:58	48301	ORWI_T1	2	2	0	4.4	4.5	0.1	0	0	0	0	0	0	0	0
2/28/2025 19:58	14801	TREI_T2	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
2/28/2025 19:58	40802	EXCH_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
2/28/2025 19:58	13303	ORVI_T1	0	0	0	0	0	0	0.79	0.77	0	0	0	0	0	0
2/28/2025 19:59	44905	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 19:59	44901	SCOT_T2	27	25	-2	0.33	0.36	0.03	0.01	0.01	0	0	0	0	0	0
2/28/2025 19:59	67402	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 19:59	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 19:59	44902	SCOT_T2	741	747	6	0.61	0.62	0.01	0	0	0	0	0	0	0	0
2/28/2025 19:59	60903	DONG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 19:59	20603	GRWO_T2	0	0	0	0	0	0	-0.62	-0.62	1	1	0	900	900	0
2/28/2025 19:59	65603	QVIL_T2	2	3	1	0.2	0.2	0	0	0	0	0	0	0	0	0
2/28/2025 19:59	65604	QVIL_T2	0	0	0	0	0	0	0.3	0.33	0	0	0	0	0	0
2/28/2025 19:59	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 19:59	65602	QVIL_T2	3	6	3	0.23	0.25	0.02	0	0	0	0	0	0	0	0
2/28/2025 19:59	65601	QVIL_T2	14	21	7	0.11	0.14	0.03	0	0	0	0	0	0	0	0
2/28/2025 19:59	44201	POIN_T1	0	0	0	0	0	0	-2.01	-2.04	2	2	0	2100	2100	0
2/28/2025 19:59	63501	HEID_TBK1-2	0	1	1	0	0.3	0.3	0.37	0.42	0	0	0	0	0	0
2/28/2025 19:59	43202	MVIL_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
2/28/2025 19:59	24902	WHHA_T1	8	20	12	0.78	1.13	0.35	0.78	0.79	0	0	0	0	0	0
2/28/2025 19:59	44904	SCOT_T1	0	0	0	0	0	0	0.49	0.55	0	0	0	0	0	0
2/28/2025 20:00	10105	ALLE_T3	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
2/28/2025 20:00	43802	SWIL_T1	0	1	1	0	0	0	-0.2	-0.22	1	1	0	600	600	0
2/28/2025 20:00	47104	MARL_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
2/28/2025 20:00	43202	MVIL_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
2/28/2025 20:00	46101	MACI_T2	0	0	0	0	0	0	0.79	0.75	0	0	0	0	0	0
2/28/2025 20:00	66903	SHIL_T2	0	0	0	0	0	0	-1.27	-1.28	0	0	0	0	0	0
2/28/2025 20:00	22602	KIMB_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
2/28/2025 20:00	47101	MARL_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/28/2025 20:00	24104	EHAZ_T1	0	0	0	0	0	0	-0.92	-0.9	1	1	0	1200	1200	0
2/28/2025 20:00	61801	EELI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/28/2025 20:00	67106	SPRI_T2	1	1	0	0	0	0	-1.29	-1.31	1	1	0	900	900	0
2/28/2025 20:00	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:00	54201	PENN_T1	6	6	0	0.53	0.77	0.24	0	0	0	0	0	0	0	0
2/28/2025 20:00	47401	PENS_T1	0	0	0	0	0	0	0.59	0.63	0	0	0	0	0	0
2/28/2025 20:00	24101	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:00	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:00	54203	PENN_T1	18	18	0	0.77	0.82	0.05	0	0	0	0	0	0	0	0
2/28/2025 20:00	47403	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 20:00	24105	EHAZ_T1	4	4	0	5.65	5.53	-0.12	0	0	0	0	0	0	0	0
2/28/2025 20:00	44502	HAMI_T2	1	1	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
2/28/2025 20:00	43801	SWIL_T1	2	2	0	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
2/28/2025 20:00	10101	ALLE_T3	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
2/28/2025 20:00	16801	WAGN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:00	44505	HAMI_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
2/28/2025 20:00	10109	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:00	61802	EELI_T2	0	0	0	0	0	0	-0.34	-0.37	0	0	0	0	0	0
2/28/2025 20:01	44902	SCOT_T2	732	759	27	0.6	0.64	0.04	-1	-1	0	0	0	0	0	0
2/28/2025 20:01	45501	DERR_T2	0	0	0	0	0	0	0.89	0.2	3	3	0	1800	1800	0
2/28/2025 20:01	45502	DERR_T2	0	0	0	0	0	0	-0.62	-0.61	0	0	0	0	0	0
2/28/2025 20:01	61701	ELIZ_T1	1	1	0	5.2	5.3	0.1	0.15	0.01	0	0	0	0	0	0
2/28/2025 20:01	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:01	64701	LITI_T1	0	0	0	0	0	0	0.14	0.11	0	0	0	0	0	0
2/28/2025 20:01	44901	SCOT_T2	24	25	1	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
2/28/2025 20:01	63501	HEID_TBK1-2	0	1	1	0	1	1	0.37	0.42	0	0	0	0	0	0
2/28/2025 20:01	59102	WALK_T2	24	18	-6	0.28	0.26	-0.02	0	0	0	0	0	0	0	0
2/28/2025 20:01	59202	THOM_T1	311	332	21	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
2/28/2025 20:01	44301	BEAV_T2	0	0	0	0	0	0	-0.26	-0.24	1	1	0	600	600	0
2/28/2025 20:01	43302	WATS_T2	3	4	1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
2/28/2025 20:01	43301	WATS_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
2/28/2025 20:01	67303	WYOM_T2	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
2/28/2025 20:01	59201	THOM_T1	31	31	0	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
2/28/2025 20:01	59101	WALK_T2	0	0	0	0	0	0	-0.64	-0.59	0	0	0	0	0	0
2/28/2025 20:02	44302	BEAV_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
2/28/2025 20:02	54201	PENN_T1	6	6	0	0.53	0.77	0.24	0	0	0	0	0	0	0	0
2/28/2025 20:02	64203	KINZ_T1	0	0	0	0	0	0	-0.58	-0.57	1	1	0	600	600	0
2/28/2025 20:02	63501	HEID_TBK1-2	0	1	1	0	1	1	0.37	0.42	0	0	0	0	0	0
2/28/2025 20:02	65602	QVIL_T2	6	4	-2	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
2/28/2025 20:02	11301	EMMA_T1	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
2/28/2025 20:02	59201	THOM_T1	31	31	0	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
2/28/2025 20:02	44502	HAMI_T2	1	1	0	2.6	2.9	0.3	0.01	0.01	0	0	0	0	0	0
2/28/2025 20:02	65601	QVIL_T2	20	20	0	0.14	0.11	-0.03	0	0	0	0	0	0	0	0
2/28/2025 20:02	59202	THOM_T1	311	332	21	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
2/28/2025 20:02	45702	LIND_T2	1	1	0	1	1	0	-0.6	-0.6	0	0	0	0	0	0
2/28/2025 20:02	17401	FOHI_T1	0	0	0	0	0	0	-1.98	-2	0	0	0	0	0	0
2/28/2025 20:02	54203	PENN_T1	18	18	0	0.77	0.82	0.05	0.54	0.52	0	0	0	0	0	0
2/28/2025 20:02	64204	KINZ_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/28/2025 20:02	67106	SPRI_T2	1	1	0	0	0	0	-1.29	-1.31	1	1	0	900	900	0
2/28/2025 20:02	64201	KINZ_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
2/28/2025 20:02	65603	QVIL_T2	3	2	-1	0.2	0.15	-0.05	0.04	0.08	0	0	0	0	0	0
2/28/2025 20:02	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:03	24101	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:03	44302	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:03	24105	EHAZ_T1	4	4	0	5.65	5.53	-0.12	0	0	0	0	0	0	0	0
2/28/2025 20:03	64204	KINZ_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
2/28/2025 20:03	40101	HUNT_T2	0	0	0	0	0	0	-1.4	-1.46	0	0	0	0	0	0
2/28/2025 20:03	64201	KINZ_T1	1	1	0	0.4	0.9	0.5	0.07	0.07	2	2	0	600	600	0
2/28/2025 20:03	46004	BERW_T2	2	0	-2	0.2	0	-0.2	-0.79	-0.81	0	0	0	0	0	0
2/28/2025 20:03	57203	ROSS_T1	0	0	0	0	0	0	-0.38	-0.36	0	0	0	0	0	0
2/28/2025 20:03	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:03	54506	ENOL_T2	0	0	0	0	0	0	-0.01	-0.11	1	1	0	600	600	0
2/28/2025 20:03	54502	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/28/2025 20:03	24104	EHAZ_T1	0	0	0	0	0	0	-0.92	-0.9	1	1	0	1200	1200	0
2/28/2025 20:03	44201	POIN_T1	0	0	0	0	0	0	-2.01	-2.04	2	2	0	2100	2100	0
2/28/2025 20:03	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/28/2025 20:03	54601	SUMM_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
2/28/2025 20:04	65603	QVIL_T2	3	2	-1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
2/28/2025 20:04	54601	SUMM_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
2/28/2025 20:04	59202	THOM_T1	311	332	21	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
2/28/2025 20:04	67605	WARW_T1	4	3	-1	0.2	0.1	-0.1	-0.83	-0.89	0	0	0	0	0	0
2/28/2025 20:04	67303	WYOM_T2	0	0	0	0	0	0	0.23	0.19	0	0	0	0	0	0
2/28/2025 20:04	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.94	1	1	0	900	900	0
2/28/2025 20:04	60903	DONG_T2	0	0	0	0	0	0	0.21	0.16	1	1	0	600	600	0
2/28/2025 20:04	54602	SUMM_T2	0	0	0	0	0	0	-2.45	-2.43	1	1	0	600	600	0
2/28/2025 20:04	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:04	57201	ROSS_T1	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
2/28/2025 20:04	44601	SALE_T2	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
2/28/2025 20:04	65601	QVIL_T2	20	20	0	0.14	0.11	-0.03	-1.29	-1.21	1	1	0	900	900	0
2/28/2025 20:04	47101	MARL_T1	1	0	-1	0.4	0	-0.4	-0.14	-0.07	0	0	0	0	0	0
2/28/2025 20:04	65602	QVIL_T2	6	4	-2	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
2/28/2025 20:04	59201	THOM_T1	31	31	0	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
2/28/2025 20:04	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:04	46101	MACI_T2	0	0	0	0	0	0	0.79	0.75	0	0	0	0	0	0
2/28/2025 20:05	63401	HONY_T1	0	0	0	0	0	0	0.67	0.56	0	0	0	0	0	0
2/28/2025 20:05	63501	HEID_TBK1-2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
2/28/2025 20:05	41001	LAUR_T2	65	72	7	0.25	0.27	0.02	0	0	0	0	0	0	0	0
2/28/2025 20:05	65603	QVIL_T2	3	2	-1	0.2	0.15	-0.05	0.04	0.08	0	0	0	0	0	0
2/28/2025 20:05	65602	QVIL_T2	6	4	-2	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
2/28/2025 20:05	52502	PROG_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
2/28/2025 20:05	46004	BERW_T2	2	0	-2	0.2	0	-0.2	-0.79	-0.81	0	0	0	0	0	0
2/28/2025 20:05	67605	WARW_T1	4	3	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/28/2025 20:05	41002	LAUR_T2	20	36	16	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
2/28/2025 20:05	24902	WHHA_T1	7	24	17	1.13	0.73	-0.4	0	0	0	0	0	0	0	0
2/28/2025 20:05	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
2/28/2025 20:05	65601	QVIL_T2	20	20	0	0.14	0.11	-0.03	0	0	0	0	0	0	0	0
2/28/2025 20:05	24901	WHHA_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
2/28/2025 20:05	13503	MCMI_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
2/28/2025 20:06	63501	HEID_TBK1-2	0	1	1	0	1	1	0.42	0.36	0	0	0	0	0	0
2/28/2025 20:06	54201	PENN_T1	6	6	0	0.53	0.77	0.24	0	0	0	0	0	0	0	0
2/28/2025 20:06	17401	FOHI_T1	0	0	0	0	0	0	-1.98	-2	0	0	0	0	0	0
2/28/2025 20:06	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/28/2025 20:06	44902	SCOT_T2	732	759	27	0.6	0.64	0.04	-1	-0.95	0	0	0	0	0	0
2/28/2025 20:06	14801	TREI_T2	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
2/28/2025 20:06	57404	SPAN_T2	0	0	0	0	0	0	-0.19	-0.19	1	1	0	1200	1200	0
2/28/2025 20:06	54502	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/28/2025 20:06	54203	PENN_T1	18	18	0	0.77	0.82	0.05	0	0	0	0	0	0	0	0
2/28/2025 20:06	67603	WARW_T1	0	0	0	0	0	0	-0.04	-0.01	0	0	0	0	0	0
2/28/2025 20:06	47101	MARL_T1	1	0	-1	0.4	0	-0.4	-0.07	-0.06	0	0	0	0	0	0
2/28/2025 20:06	67605	WARW_T1	4	3	-1	0.2	0.3	0.1	-0.89	-0.86	0	0	0	0	0	0
2/28/2025 20:06	66903	SHII_T2	0	0	0	0	0	0	-1.28	-1.28	0	0	0	0	0	0
2/28/2025 20:06	54506	ENOL_T2	0	0	0	0	0	0	-0.01	-0.11	1	1	0	600	600	0
2/28/2025 20:06	44801	EDAN_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
2/28/2025 20:06	41301	FISH_T1	40	76	36	0.22	0.23	0.01	0	0	0	0	0	0	0	0
2/28/2025 20:06	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.12	0	0	0	0	0	0
2/28/2025 20:06	67502	WEWI_T2	54	82	28	0.15	0.17	0.02	0	0	0	0	0	0	0	0
2/28/2025 20:06	41305	FISH_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/28/2025 20:06	46004	BERW_T2	2	0	-2	0.2	0	-0.2	-0.81	-0.84	0	0	0	0	0	0
2/28/2025 20:06	44901	SCOT_T2	24	25	1	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
2/28/2025 20:06	48301	ORWI_T1	2	2	0	4.4	4.5	0.1	0.25	0.33	0	0	0	0	0	0
2/28/2025 20:07	44901	SCOT_T2	24	25	1	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
2/28/2025 20:07	62106	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/28/2025 20:07	17805	GILB_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
2/28/2025 20:07	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.12	0	0	0	0	0	0
2/28/2025 20:07	64901	MILL_T1	17	36	19	0.15	0.18	0.03	0	0	0	0	0	0	0	0
2/28/2025 20:07	64904	MILL_T1	0	12	12	0	0.13	0.13	-0.53	-0.53	0	0	0	0	0	0
2/28/2025 20:07	65601	QVIL_T2	20	20	0	0.14	0.11	-0.03	0	0	0	0	0	0	0	0
2/28/2025 20:07	65604	QVIL_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
2/28/2025 20:07	44502	HAMI_T2	1	1	0	2.6	2.9	0.3	0	0	0	0	0	0	0	0
2/28/2025 20:07	47101	MARL_T1	1	0	-1	0.4	0	-0.4	-0.07	-0.06	0	0	0	0	0	0
2/28/2025 20:07	62101	ELAN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/28/2025 20:07	57203	ROSS_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
2/28/2025 20:07	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:07	65603	QVIL_T2	3	2	-1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
2/28/2025 20:07	65602	QVIL_T2	6	4	-2	0.25	0.23	-0.02	0.07	0.02	0	0	0	0	0	0
2/28/2025 20:07	48902	FOSP_T2	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
2/28/2025 20:07	44902	SCOT_T2	732	759	27	0.6	0.64	0.04	-1	-0.95	0	0	0	0	0	0
2/28/2025 20:07	60201	ATGL_T2	55	51	-4	0.24	0.23	-0.01	-0.33	-0.31	0	0	0	0	0	0
2/28/2025 20:07	43202	MVIL_T2	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
2/28/2025 20:07	65303	NBRI_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
2/28/2025 20:07	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:07	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/28/2025 20:07	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:07	61703	ELIZ_T1	0	0	0	0	0	0	-3.82	-3.76	2	2	0	1800	1800	0
2/28/2025 20:07	67904	WNHO_T1	0	0	0	0	0	0	-1.2	-1.22	1	1	0	1200	1200	0
2/28/2025 20:07	54601	SUMM_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
2/28/2025 20:07	61701	ELIZ_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
2/28/2025 20:07	44505	HAMI_T2	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
2/28/2025 20:07	67402	WAKE_T2	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
2/28/2025 20:07	67106	SPRI_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:07	62105	ELAN_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
2/28/2025 20:08	17401	FOHI_T1	0	0	0	0	0	0	-1	-1.02	0	0	0	0	0	0
2/28/2025 20:08	47104	MARL_T1	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
2/28/2025 20:08	40502	CRES_T2	26	22	-4	0.49	0.5	0.01	0	0	0	0	0	0	0	0
2/28/2025 20:08	63202	MGTN_T2	1	5	4	7.2	2.35	-4.85	0.59	0.59	0	0	0	0	0	0
2/28/2025 20:08	62105	ELAN_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
2/28/2025 20:08	62106	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/28/2025 20:08	40801	EXCH_T2	0	0	0	0	0	0	0.79	0.8	0	0	0	0	0	0
2/28/2025 20:08	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:08	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:08	67605	WARW_T1	4	3	-1	0.2	0.3	0.1	-0.89	-0.86	0	0	0	0	0	0
2/28/2025 20:08	60201	ATGL_T2	55	51	-4	0.24	0.23	-0.01	-0.33	-0.31	0	0	0	0	0	0
2/28/2025 20:08	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
2/28/2025 20:08	62101	ELAN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/28/2025 20:08	47101	MARL_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
2/28/2025 20:08	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.18	1	1	0	600	600	0
2/28/2025 20:08	54201	PENN_T1	6	6	0	0.53	0.77	0.24	0	0	0	0	0	0	0	0
2/28/2025 20:08	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:08	10801	CHHI_T1	0	0	0	0	0	0	-3.12	-3.18	4	4	0	3000	3000	0
2/28/2025 20:08	10805	CHHI_T2	1	1	0	7.6	7.8	0.2	-1.22	-1.22	1	1	0	600	600	0
2/28/2025 20:08	40501	CRES_T2	8	10	2	0.24	0.24	0	0	0	0	0	0	0	0	0
2/28/2025 20:08	54203	PENN_T1	18	18	0	0.77	0.82	0.05	0.52	0.53	0	0	0	0	0	0
2/28/2025 20:08	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/28/2025 20:08	67401	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:08	44905	SCOT_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
2/28/2025 20:08	13302	ORVI_T2	0	0	0	0	0	0	1.46	1.38	0	0	0	0	0	0
2/28/2025 20:08	14802	TREI_T2	0	0	0	0	0	0	0.46	0.42	0	0	0	0	0	0
2/28/2025 20:09	67401	WAKE_T2	0	0	0	0	0	0	-1.05	-0.92	0	0	0	0	0	0
2/28/2025 20:09	47102	MARL_T2	13	15	2	0.28	0.21	-0.07	0	0	0	0	0	0	0	0
2/28/2025 20:09	52004	LING_T2	2	2	0	6.1	5.95	-0.15	0.14	0.17	0	0	0	0	0	0
2/28/2025 20:09	61701	ELIZ_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
2/28/2025 20:09	20601	GRWO_T2	0	0	0	0	0	0	-0.18	-0.16	0	0	0	0	0	0
2/28/2025 20:09	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:09	63804	HEMP_T1	1	0	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
2/28/2025 20:09	52404	GRPA_T2	1	1	0	0.3	0.3	0	-0.29	-0.26	0	0	0	0	0	0
2/28/2025 20:09	57205	ROSS_T1	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
2/28/2025 20:09	52401	GRPA_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
2/28/2025 20:09	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/28/2025 20:09	63501	HEID_TBK1-2	0	1	1	0	1	1	0.84	0.72	0	0	0	0	0	0
2/28/2025 20:09	47103	MARL_T2	2	2	0	0.2	0.15	-0.05	-0.55	-0.55	0	0	0	0	0	0
2/28/2025 20:09	52006	LING_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
2/28/2025 20:09	57203	ROSS_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
2/28/2025 20:09	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:09	63803	HEMP_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
2/28/2025 20:09	57201	ROSS_T1	0	0	0	0	0	0	-0.62	-0.7	0	0	0	0	0	0
2/28/2025 20:09	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.18	1	1	0	600	600	0
2/28/2025 20:09	61703	ELIZ_T1	0	0	0	0	0	0	-3.82	-3.76	2	2	0	1800	1800	0
2/28/2025 20:09	52402	GRPA_T2	3	4	1	1	0.8	-0.2	0	0	0	0	0	0	0	0
2/28/2025 20:09	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:09	60902	DONG_T2	0	0	0	0	0	0	0.45	0.46	0	0	0	0	0	0
2/28/2025 20:09	52501	PROG_T1	0	0	0	0	0	0	0.39	0.41	1	1	0	300	300	0
2/28/2025 20:10	64202	KINZ_T1	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
2/28/2025 20:10	44201	POIN_T1	0	0	0	0	0	0	-2.04	-2	2	2	0	2100	2100	0
2/28/2025 20:10	67604	WARW_T1	0	0	0	0	0	0	0.59	0.54	0	0	0	0	0	0
2/28/2025 20:10	64101	REFR_T1	0	0	0	0	0	0	-0.51	-0.36	0	0	0	0	0	0
2/28/2025 20:10	57205	ROSS_T1	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
2/28/2025 20:10	41301	FISH_T1	40	76	36	0.22	0.23	0.01	-0.42	-0.4	0	0	0	0	0	0
2/28/2025 20:10	62101	ELAN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/28/2025 20:10	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:10	45501	DERR_T2	0	0	0	0	0	0	0.07	0.05	1	1	0	600	600	0
2/28/2025 20:10	54203	PENN_T1	18	18	0	0.77	0.82	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/28/2025 20:10	61701	ELIZ_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
2/28/2025 20:10	54201	PENN_T1	6	6	0	0.53	0.77	0.24	0	-0.03	0	0	0	0	0	0
2/28/2025 20:10	20601	GRWO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:10	11302	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:10	52501	PROG_T1	0	0	0	0	0	0	0.39	0.41	1	1	0	300	300	0
2/28/2025 20:10	57402	SPAN_T2	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
2/28/2025 20:10	64204	KINZ_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
2/28/2025 20:10	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:10	67605	WARW_T1	4	3	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/28/2025 20:10	61001	DONV_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
2/28/2025 20:10	57401	SPAN_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
2/28/2025 20:10	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:10	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
2/28/2025 20:10	65602	QVIL_T2	6	4	-2	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
2/28/2025 20:10	40802	EXCH_T2	0	0	0	0	0	0	-0.28	-0.32	0	0	0	0	0	0
2/28/2025 20:10	61304	EARL_T1	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
2/28/2025 20:10	65601	QVIL_T2	20	20	0	0.14	0.11	-0.03	0	0	0	0	0	0	0	0
2/28/2025 20:10	67401	WAKE_T2	0	0	0	0	0	0	-2.1	-1.85	0	0	0	0	0	0
2/28/2025 20:10	65603	QVIL_T2	3	2	-1	0.2	0.15	-0.05	0.16	0.16	0	0	0	0	0	0
2/28/2025 20:10	57403	SPAN_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
2/28/2025 20:10	11202	ELHE_T2	0	0	0	0	0	0	0.36	0.37	1	1	0	1200	1200	0
2/28/2025 20:10	41305	FISH_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/28/2025 20:10	61703	ELIZ_T1	0	0	0	0	0	0	-1.91	-1.88	1	1	0	900	900	0
2/28/2025 20:10	64201	KINZ_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
2/28/2025 20:10	62106	ELAN_T1	1	0	-1	0.1	0	-0.1	-0.03	-0.05	0	0	0	0	0	0
2/28/2025 20:11	57401	SPAN_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
2/28/2025 20:11	67203	TEHI_T1	0	0	0	0	0	0	2.18	2.16	1	1	0	900	900	0
2/28/2025 20:11	40802	EXCH_T2	0	0	0	0	0	0	-0.28	-0.32	0	0	0	0	0	0
2/28/2025 20:11	54504	ENOL_T2	0	0	0	0	0	0	-2.2	-2.18	2	2	0	1200	1200	0
2/28/2025 20:11	64902	MILL_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
2/28/2025 20:11	41301	FISH_T1	40	76	36	0.22	0.23	0.01	-0.42	-0.4	0	0	0	0	0	0
2/28/2025 20:11	48301	ORWI_T1	2	2	0	4.4	4.5	0.1	0.25	0.33	0	0	0	0	0	0
2/28/2025 20:11	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/28/2025 20:11	57403	SPAN_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
2/28/2025 20:11	63804	HEMP_T1	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
2/28/2025 20:11	59201	THOM_T1	31	31	0	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
2/28/2025 20:11	52501	PROG_T1	0	0	0	0	0	0	0.39	0.41	1	1	0	300	300	0
2/28/2025 20:11	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.12	0	0	0	0	0	0
2/28/2025 20:11	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:11	41305	FISH_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/28/2025 20:11	44301	BEAV_T2	0	0	0	0	0	0	-0.24	-0.24	1	1	0	600	600	0
2/28/2025 20:11	63501	HEID_TBK1-2	0	1	1	0	1	1	0.84	0.72	0	0	0	0	0	0
2/28/2025 20:11	63803	HEMP_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
2/28/2025 20:11	67401	WAKE_T2	0	0	0	0	0	0	-1.05	-0.92	0	0	0	0	0	0
2/28/2025 20:11	59202	THOM_T1	311	332	21	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
2/28/2025 20:11	44201	POIN_T1	0	0	0	0	0	0	-6.12	-6	6	6	0	6300	6300	0
2/28/2025 20:11	54502	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/28/2025 20:12	44902	SCOT_T2	732	759	27	0.6	0.64	0.04	0	0	0	0	0	0	0	0
2/28/2025 20:12	45501	DERR_T2	0	0	0	0	0	0	0.07	0.05	1	1	0	600	600	0
2/28/2025 20:12	62101	ELAN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/28/2025 20:12	41301	FISH_T1	40	76	36	0.22	0.23	0.01	-0.42	-0.4	0	0	0	0	0	0
2/28/2025 20:12	63401	HONY_T1	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
2/28/2025 20:12	58201	NEWV_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
2/28/2025 20:12	58202	NEWV_T1	0	0	0	0	0	0	-0.17	-0.1	0	0	0	0	0	0
2/28/2025 20:12	65602	QVIL_T2	6	4	-2	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
2/28/2025 20:12	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:12	20403	ASHF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:12	62106	ELAN_T1	1	0	-1	0.1	0	-0.1	-0.03	-0.05	0	0	0	0	0	0
2/28/2025 20:12	65603	QVIL_T2	3	2	-1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
2/28/2025 20:12	44901	SCOT_T2	24	25	1	0.34	0.33	-0.01	0.01	0.25	0	0	0	0	0	0
2/28/2025 20:12	63501	HEID_TBK1-2	0	1	1	0	1	1	0.42	0.36	0	0	0	0	0	0
2/28/2025 20:12	52404	GRPA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/28/2025 20:12	57203	ROSS_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
2/28/2025 20:12	44301	BEAV_T2	0	0	0	0	0	0	-0.24	-0.24	1	1	0	600	600	0
2/28/2025 20:12	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:12	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
2/28/2025 20:12	45802	HEGI_T2	10	52	42	0.33	1.1	0.77	0	0	0	0	0	0	0	0
2/28/2025 20:12	57401	SPAN_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
2/28/2025 20:12	52402	GRPA_T2	3	4	1	1	0.8	-0.2	0	0	0	0	0	0	0	0
2/28/2025 20:12	57403	SPAN_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
2/28/2025 20:12	67901	WNHO_T2	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
2/28/2025 20:12	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
2/28/2025 20:12	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.18	1	1	0	600	600	0
2/28/2025 20:12	52006	LING_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
2/28/2025 20:12	64101	REFR_T1	0	0	0	0	0	0	-0.51	-0.36	0	0	0	0	0	0
2/28/2025 20:12	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
2/28/2025 20:12	52501	PROG_T1	0	0	0	0	0	0	0.39	0.41	1	1	0	300	300	0
2/28/2025 20:12	61701	ELIZ_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
2/28/2025 20:12	13303	ORVI_T1	0	0	0	0	0	0	1.53	1.45	0	0	0	0	0	0
2/28/2025 20:12	11301	EMMA_T1	0	0	0	0	0	0	-0.87	-0.88	0	0	0	0	0	0
2/28/2025 20:12	60404	DILL_T2	1	0	-1	6	0	-6	0.74	0.66	0	0	0	0	0	0
2/28/2025 20:12	52004	LING_T2	2	2	0	6.1	5.95	-0.15	0.14	0.17	0	0	0	0	0	0
2/28/2025 20:12	65601	QVIL_T2	20	20	0	0.14	0.11	-0.03	0	0	0	0	0	0	0	0
2/28/2025 20:12	41305	FISH_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/28/2025 20:12	62102	ELAN_T1	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
2/28/2025 20:12	67401	WAKE_T2	0	0	0	0	0	0	-1.05	-0.92	0	0	0	0	0	0
2/28/2025 20:13	61703	ELIZ_T1	0	0	0	0	0	0	-1.91	-1.88	1	1	0	900	900	0
2/28/2025 20:13	64203	KINZ_T1	0	0	0	0	0	0	-0.57	-0.54	1	1	0	600	600	0
2/28/2025 20:13	67201	TEHI_T1	0	0	0	0	0	0	0.66	0.69	0	0	0	0	0	0
2/28/2025 20:13	64201	KINZ_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
2/28/2025 20:13	67901	WNHO_T2	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
2/28/2025 20:13	61701	ELIZ_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
2/28/2025 20:13	41801	GOCI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:13	58102	NEKI_T1	1	1	0	0.9	0.9	0	0.05	0.11	0	0	0	0	0	0
2/28/2025 20:13	67605	WARW_T1	4	3	-1	0.2	0.3	0.1	-0.89	-0.86	0	0	0	0	0	0
2/28/2025 20:13	59202	THOM_T1	311	332	21	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
2/28/2025 20:13	58401	MORO_T1	0	0	0	0	0	0	-2.4	-2.36	2	2	0	1200	1200	0
2/28/2025 20:13	57401	SPAN_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
2/28/2025 20:13	54503	ENOL_T2	0	0	0	0	0	0	-0.44	-0.45	1	1	0	600	600	0
2/28/2025 20:13	57201	ROSS_T1	0	0	0	0	0	0	-1.24	-1.41	0	0	0	0	0	0
2/28/2025 20:13	59201	THOM_T1	31	31	0	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
2/28/2025 20:13	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
2/28/2025 20:13	67502	WEWI_T2	54	82	28	0.15	0.17	0.02	0	0	0	0	0	0	0	0
2/28/2025 20:13	54502	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/28/2025 20:13	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:13	44801	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:13	64204	KINZ_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
2/28/2025 20:13	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.12	0	0	0	0	0	0
2/28/2025 20:13	52502	PROG_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
2/28/2025 20:13	47403	PENS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 20:13	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:14	62106	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
2/28/2025 20:14	67106	SPRI_T2	1	1	0	0	0	0	-1.31	-1.3	1	1	0	900	900	0
2/28/2025 20:14	58701	ROSE_T2	0	0	0	0	0	0	-0.29	-0.3	1	1	0	600	600	0
2/28/2025 20:14	52401	GRPA_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
2/28/2025 20:14	57205	ROSS_T1	0	0	0	0	0	0	0.1	0.16	0	0	0	0	0	0
2/28/2025 20:14	61803	EELI_T2	0	0	0	0	0	0	0.67	0.66	0	0	0	0	0	0
2/28/2025 20:14	65503	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:14	61304	EARL_T1	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
2/28/2025 20:14	52403	GRPA_T2	0	0	0	0	0	0	-0.51	-0.56	0	0	0	0	0	0
2/28/2025 20:14	62101	ELAN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/28/2025 20:14	54602	SUMM_T2	0	0	0	0	0	0	-2.43	-2.38	1	1	0	600	600	0
2/28/2025 20:14	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:14	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.18	1	1	0	600	600	0
2/28/2025 20:14	58402	MORO_T1	0	0	0	0	0	0	-0.13	-0.25	2	2	0	1500	1500	0
2/28/2025 20:14	52402	GRPA_T2	3	4	1	1	0.8	-0.2	0	0	0	0	0	0	0	0
2/28/2025 20:14	62105	ELAN_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
2/28/2025 20:14	67605	WARW_T1	4	3	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
2/28/2025 20:14	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.12	0	0	0	0	0	0
2/28/2025 20:14	61801	EELI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
2/28/2025 20:14	52404	GRPA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/28/2025 20:14	54601	SUMM_T2	2	2	0	0.15	0.1	-0.05	-3.78	-3.77	4	4	0	4200	4200	0
2/28/2025 20:15	60803	BUCK_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 20:15	52502	PROG_T2	0	0	0	0	0	0	1.02	0.99	0	0	0	0	0	0
2/28/2025 20:15	52006	LING_T2	2	2	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
2/28/2025 20:15	52004	LING_T2	2	2	0	5.95	5.95	0	0.14	0.17	0	0	0	0	0	0
2/28/2025 20:15	65602	QVIL_T2	4	4	0	0.18	0.28	0.1	0	0	0	0	0	0	0	0
2/28/2025 20:15	66903	SHIL_T2	0	0	0	0	0	0	-1.28	-1.28	0	0	0	0	0	0
2/28/2025 20:15	65603	QVIL_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
2/28/2025 20:15	60801	BUCK_T1	1	4	3	0.1	0.1	0	-0.26	-0.28	0	0	0	0	0	0
2/28/2025 20:15	63501	HEID_TBK1-2	1	2	1	0.3	0.7	0.4	0.42	0.36	0	0	0	0	0	0
2/28/2025 20:15	52002	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 20:15	65601	QVIL_T2	15	28	13	0.1	0.14	0.04	0	0	0	0	0	0	0	0
2/28/2025 20:15	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.18	1	1	0	600	600	0
2/28/2025 20:16	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.12	0	0	0	0	0	0
2/28/2025 20:16	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:16	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
2/28/2025 20:16	64904	MILL_T1	2	14	12	0.1	0.13	0.03	-0.53	-0.53	0	0	0	0	0	0
2/28/2025 20:16	54602	SUMM_T2	0	0	0	0	0	0	-2.43	-2.38	1	1	0	600	600	0
2/28/2025 20:16	52402	GRPA_T2	4	3	-1	0.7	0.87	0.17	0	0	0	0	0	0	0	0
2/28/2025 20:16	67605	WARW_T1	3	5	2	0.3	0.2	-0.1	-0.89	-0.86	0	0	0	0	0	0
2/28/2025 20:16	67605	WARW_T1	3	5	2	0.3	0.2	-0.1	-0.89	-0.86	0	0	0	0	0	0
2/28/2025 20:16	67605	WARW_T1	3	5	2	0.3	0.2	-0.1	-0.89	-0.86	0	0	0	0	0	0
2/28/2025 20:16	67605	WARW_T1	3	5	2	0.3	0.2	-0.1	-0.89	-0.86	0	0	0	0	0	0
2/28/2025 20:16	64901	MILL_T1	28	39	11	0.16	0.2	0.04	0	0	0	0	0	0	0	0
2/28/2025 20:16	14802	TREI_T2	0	0	0	0	0	0	0.46	0.42	0	0	0	0	0	0
2/28/2025 20:16	58401	MORO_T1	0	0	0	0	0	0	-1.2	-1.18	1	1	0	600	600	0
2/28/2025 20:16	59202	THOM_T1	297	357	60	0.31	0.37	0.06	0	0	0	0	0	0	0	0
2/28/2025 20:16	54504	ENOL_T2	0	0	0	0	0	0	-1.1	-1.09	1	1	0	600	600	0
2/28/2025 20:16	54502	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
2/28/2025 20:16	54601	SUMM_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
2/28/2025 20:16	59201	THOM_T1	31	30	-1	0.41	0.51	0.1	0	0	0	0	0	0	0	0
2/28/2025 20:16	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
2/28/2025 20:16	52403	GRPA_T2	0	0	0	0	0	0	-0.51	-0.56	0	0	0	0	0	0
2/28/2025 20:16	52404	GRPA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/28/2025 20:17	57401	SPAN_T1	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
2/28/2025 20:17	58202	NEWV_T1	0	0	0	0	0	0	-0.17	-0.1	0	0	0	0	0	0
2/28/2025 20:17	24105	EHAZ_T1	4	4	0	5.63	5.5	-0.13	-2.15	-2.13	1	1	0	1200	1200	0
2/28/2025 20:17	52404	GRPA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/28/2025 20:17	57403	SPAN_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
2/28/2025 20:17	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.12	0	0	0	0	0	0
2/28/2025 20:17	24101	EHAZ_T1	2	2	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
2/28/2025 20:17	52402	GRPA_T2	4	3	-1	0.7	0.87	0.17	0	0	0	0	0	0	0	0
2/28/2025 20:17	58201	NEWV_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/28/2025 20:18	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/28/2025 20:18	67605	WARW_T1	3	5	2	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
2/28/2025 20:18	62102	ELAN_T1	0	0	0	0	0	0	0.6	0.59	0	0	0	0	0	0
2/28/2025 20:18	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:19	52402	GRPA_T2	4	3	-1	0.7	0.87	0.17	0	0	0	0	0	0	0	0
2/28/2025 20:19	58201	NEWV_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
2/28/2025 20:19	52403	GRPA_T2	0	0	0	0	0	0	-0.51	-0.56	0	0	0	0	0	0
2/28/2025 20:19	58202	NEWV_T1	0	0	0	0	0	0	-0.17	-0.1	0	0	0	0	0	0
2/28/2025 20:19	52404	GRPA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
2/28/2025 20:19	52502	PROG_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
2/28/2025 20:20	13905	SEID_T1	0	0	0	0	0	0	0.3	0.34	0	0	0	0	0	0
2/28/2025 20:20	13904	SEID_T1	4	11	7	0.15	0	-0.15	0	0	0	0	0	0	0	0
2/28/2025 20:20	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:26	62101	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
2/28/2025 20:26	62105	ELAN_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
2/28/2025 20:37	62101	ELAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
2/28/2025 20:37	62103	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2/28/2025 20:37	62106	ELAN_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
2/28/2025 20:37	62105	ELAN_T1	0	16	16	0	0.1	0.1	0.39	0.38	0	0	0	0	0	0
2/28/2025 20:50	52502	PROG_T2	0	0	0	0	0	0	0.29	0.34	0	0	0	0	0	0
2/28/2025 20:56	48902	FOSP_T2	0	0	0	0	0	0	-0.07	-0.1	0	0	0	0	0	0
2/28/2025 21:12	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
2/28/2025 22:18	52402	GRPA_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
2/28/2025 22:18	52403	GRPA_T2	0	2	2	0	0.4	0.4	-0.72	-0.72	0	0	0	0	0	0
2/28/2025 22:41	66903	SHIL_T2	0	0	0	0	0	0	-1.28	-1.3	0	0	0	0	0	0
2/28/2025 22:58	17802	GILB_T1	0	0	0	0	0	0	-0.02	0.12	0	0	0	0	0	0
2/28/2025 23:16	64903	MILL_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
2/28/2025 23:43	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.24	1	1	0	600	600	0
3/1/2025 6:57	58701	ROSE_T2	0	0	0	0	0	0	-0.31	-0.32	1	1	0	600	600	0
3/1/2025 6:57	52404	GRPA_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
3/1/2025 6:57	52402	GRPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/1/2025 6:57	48902	FOSP_T2	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
3/1/2025 6:57	58401	MORO_T1	0	0	0	0	0	0	-3.18	-3.18	3	3	0	1800	1800	0
3/1/2025 6:57	57403	SPAN_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
3/1/2025 6:57	52401	GRPA_T2	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
3/1/2025 6:57	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/1/2025 6:57	59101	WALK_T2	0	1	1	0	0	0	-0.57	-0.55	0	0	0	0	0	0
3/1/2025 6:57	54506	ENOL_T2	0	0	0	0	0	0	-2.84	-2.88	2	2	0	1200	1200	0
3/1/2025 6:57	44201	POIN_T1	175	183	8	0.26	0.26	0	-4.86	-4.58	4	4	0	4200	4200	0
3/1/2025 6:57	52004	LING_T2	2	2	0	4.35	4.5	0.15	0.34	0.08	0	0	0	0	0	0
3/1/2025 6:57	54505	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/1/2025 6:57	47401	PENS_T1	0	0	0	0	0	0	0.48	0.54	0	0	0	0	0	0
3/1/2025 6:57	58302	NOTT_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	900	900	0
3/1/2025 6:57	58706	ROSE_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/1/2025 6:57	54503	ENOL_T2	0	0	0	0	0	0	-0.46	-0.44	1	1	0	600	600	0
3/1/2025 6:57	45802	HEGI_T2	42	45	3	0.65	0.85	0.2	0	0	0	0	0	0	0	0
3/1/2025 6:57	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.24	-0.22	0	0	0	0	0	0
3/1/2025 6:57	58102	NEKI_T1	1	1	0	1.1	1	-0.1	-1.37	-1.41	1	1	0	1200	1200	0
3/1/2025 6:57	58402	MORO_T1	1	0	-1	0.1	0	-0.1	-0.33	-0.31	2	2	0	1500	1500	0
3/1/2025 6:57	54504	ENOL_T2	0	0	0	0	0	0	-3.3	-3.27	3	3	0	1800	1800	0
3/1/2025 6:57	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/1/2025 6:57	52403	GRPA_T2	0	0	0	0	0	0	-3.42	-3.47	0	0	0	0	0	0
3/1/2025 6:58	58201	NEWV_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
3/1/2025 6:58	67605	WARW_T1	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
3/1/2025 6:58	22602	KIMB_T1	1	1	0	0.2	0.2	0	0.11	0.12	0	0	0	0	0	0
3/1/2025 6:58	58202	NEWV_T1	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
3/1/2025 6:58	58706	ROSE_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/1/2025 6:58	58402	MORO_T1	1	0	-1	0.1	0	-0.1	-0.33	-0.31	2	2	0	1500	1500	0
3/1/2025 6:58	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/1/2025 6:58	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/1/2025 6:58	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/1/2025 6:58	21403	EXET_T2	0	0	0	0	0	0	-1.45	-1.45	0	0	0	0	0	0
3/1/2025 6:58	52402	GRPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/1/2025 6:58	54506	ENOL_T2	0	0	0	0	0	0	-2.84	-2.88	2	2	0	1200	1200	0
3/1/2025 6:58	64201	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
3/1/2025 6:58	52004	LING_T2	2	2	0	4.35	4.5	0.15	0.34	0.08	0	0	0	0	0	0
3/1/2025 6:58	52501	PROG_T1	0	0	0	0	0	0	-3.33	-3.29	4	4	0	1200	1200	0
3/1/2025 6:58	58302	NOTT_T1	0	0	0	0	0	0	-0.89	-0.89	1	1	0	900	900	0
3/1/2025 6:58	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/1/2025 6:58	54203	PENN_T1	7	5	-2	0.26	0.43	0.17	0.99	1.08	0	0	0	0	0	0
3/1/2025 6:58	58401	MORO_T1	0	0	0	0	0	0	-7.42	-7.42	7	7	0	4200	4200	0
3/1/2025 6:58	54504	ENOL_T2	0	0	0	0	0	0	-3.3	-3.27	3	3	0	1800	1800	0
3/1/2025 6:58	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/1/2025 6:58	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/1/2025 6:58	59101	WALK_T2	0	1	1	0	0	0	-0.57	-0.55	0	0	0	0	0	0
3/1/2025 6:58	55002	NEWP_T1	0	1	1	0	0.1	0.1	-0.24	-0.22	0	0	0	0	0	0
3/1/2025 6:58	64203	KINZ_T1	0	0	0	0	0	0	0.59	0.68	1	1	0	600	600	0
3/1/2025 6:58	54201	PENN_T1	3	3	0	0.77	0.67	-0.1	-0.26	-0.05	0	0	0	0	0	0
3/1/2025 6:58	58102	NEKI_T1	1	1	0	1.1	1	-0.1	-1.37	-1.41	1	1	0	1200	1200	0
3/1/2025 6:58	58701	ROSE_T2	0	0	0	0	0	0	-0.31	-0.32	1	1	0	600	600	0
3/1/2025 6:58	57403	SPAN_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
3/1/2025 6:58	54505	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/1/2025 6:58	52404	GRPA_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
3/1/2025 6:58	52401	GRPA_T2	0	0	0	0	0	0	-1.65	-1.61	0	0	0	0	0	0
3/1/2025 6:58	52502	PROG_T2	0	0	0	0	0	0	-3.22	-3.48	6	6	0	5400	5400	0
3/1/2025 6:58	52403	GRPA_T2	0	0	0	0	0	0	-3.42	-3.47	0	0	0	0	0	0
3/1/2025 6:59	45802	HEGI_T2	42	45	3	0.65	0.85	0.2	0	0	0	0	0	0	0	0
3/1/2025 6:59	67605	WARW_T1	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
3/1/2025 6:59	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/1/2025 6:59	44201	POIN_T1	175	183	8	0.26	0.26	0	-4.86	-4.58	4	4	0	4200	4200	0
3/1/2025 6:59	64904	MILL_T1	0	0	0	0	0	0	-0.61	-0.54	0	0	0	0	0	0
3/1/2025 6:59	47401	PENS_T1	0	0	0	0	0	0	0.48	0.54	0	0	0	0	0	0
3/1/2025 6:59	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/1/2025 6:59	64201	KINZ_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
3/1/2025 6:59	44203	POIN_T2	0	0	0	0	0	0	0.13	0.09	1	1	0	900	900	0
3/1/2025 6:59	64903	MILL_T2	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
3/1/2025 6:59	64203	KINZ_T1	0	0	0	0	0	0	0.59	0.68	1	1	0	600	600	0
3/1/2025 6:59	64902	MILL_T2	0	0	0	0	0	0	-1.47	-1.46	1	1	0	900	900	0
3/1/2025 6:59	21403	EXET_T2	0	0	0	0	0	0	-1.45	-1.45	0	0	0	0	0	0
3/1/2025 6:59	48902	FOSP_T2	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
3/1/2025 6:59	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/1/2025 6:59	22602	KIMB_T1	1	1	0	0.2	0.2	0	0.11	0.12	0	0	0	0	0	0
3/1/2025 7:02	54602	SUMM_T2	0	0	0	0	0	0	-2.51	-2.48	1	1	0	600	600	0
3/1/2025 7:18	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/1/2025 7:28	54505	ENOL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/1/2025 7:28	54502	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/1/2025 7:28	54503	ENOL_T2	0	0	0	0	0	0	-0.43	-0.42	1	1	0	600	600	0
3/1/2025 7:33	52502	PROG_T2	0	0	0	0	0	0	0.55	0.51	1	1	0	900	900	0
3/1/2025 7:40	54602	SUMM_T2	0	0	0	0	0	0	-2.48	-2.48	1	1	0	600	600	0
3/1/2025 8:16	64902	MILL_T2	0	0	0	0	0	0	-1.38	-1.44	1	1	0	900	900	0
3/1/2025 9:00	53903	HALI_T2	2	2	0	0.45	0.95	0.5	0	0	0	0	0	0	0	0
3/1/2025 9:00	53902	HALI_T2	2	1	-1	3.7	5.4	1.7	0	0	0	0	0	0	0	0
3/1/2025 9:00	67502	WEWI_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/1/2025 9:00	53901	HALI_T2	1	1	0	0.2	0.3	0.1	-1.01	-1.04	0	0	0	0	0	0
3/1/2025 9:00	52502	PROG_T2	0	0	0	0	0	0	-0.6	-0.62	1	1	0	900	900	0
3/1/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	-0.11	-0.18	0	0	0	0	0	0
3/1/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.49	0.42	0	0	0	0	0	0
3/1/2025 9:09	28102	TWLA_T2	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
3/1/2025 10:51	67001	STHI_T2	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
3/1/2025 11:49	62102	ELAN_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
3/1/2025 11:49	62105	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/1/2025 11:49	62106	ELAN_T1	1	1	0	0.4	0.3	-0.1	0.38	0.15	0	0	0	0	0	0
3/1/2025 12:22	13303	ORVI_T1	0	3	3	0	0.33	0.33	1.09	1.04	0	0	0	0	0	0
3/1/2025 12:24	13303	ORVI_T1	0	3	3	0	0.33	0.33	0.55	0.52	0	0	0	0	0	0
3/1/2025 12:49	67002	STHI_T2	1	0	-1	0.1	0	-0.1	0.55	0.51	0	0	0	0	0	0
3/1/2025 13:47	67002	STHI_T2	1	3	2	0.1	0.13	0.03	0.52	0.57	0	0	0	0	0	0
3/1/2025 13:48	67002	STHI_T2	1	3	2	0.1	0.13	0.03	1.04	1.14	0	0	0	0	0	0
3/1/2025 14:32	54206	PENN_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
3/1/2025 14:34	54206	PENN_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
3/1/2025 14:36	54206	PENN_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
3/1/2025 15:37	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
3/1/2025 15:42	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
3/1/2025 17:57	46005	BERW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/1/2025 17:57	46001	BERW_T1	0	0	0	0	0	0	0.57	0.59	0	0	0	0	0	0
3/1/2025 19:54	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/1/2025 19:58	13303	ORVI_T1	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
3/1/2025 20:01	67002	STHI_T2	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
3/1/2025 20:04	67002	STHI_T2	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
3/1/2025 20:05	67002	STHI_T2	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
3/1/2025 20:06	67002	STHI_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
3/1/2025 20:06	13303	ORVI_T1	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
3/1/2025 20:07	67001	STHI_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
3/1/2025 20:09	54206	PENN_T2	0	0	0	0	0	0	-1.81	-1.79	0	0	0	0	0	0
3/1/2025 20:09	46001	BERW_T1	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
3/1/2025 20:10	67402	WAKE_T2	0	0	0	0	0	0	-0.37	-0.38	1	1	0	600	600	0
3/1/2025 20:10	13303	ORVI_T1	0	0	0	0	0	0	0.49	0.55	0	0	0	0	0	0
3/1/2025 20:12	54206	PENN_T2	0	0	0	0	0	0	-1.81	-1.79	0	0	0	0	0	0
3/1/2025 20:15	67402	WAKE_T2	0	0	0	0	0	0	-0.37	-0.38	1	1	0	600	600	0
3/1/2025 20:19	54206	PENN_T2	0	0	0	0	0	0	-1.81	-1.79	0	0	0	0	0	0
3/1/2025 20:30	62106	ELAN_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
3/2/2025 7:05	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 7:05	66505	SMAN_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/2/2025 7:19	55001	NEWP_T1	23	17	-6	0.74	0.2	-0.54	0	0	0	0	0	0	0	0
3/2/2025 7:19	55002	NEWP_T1	0	0	0	0	0	0	-0.15	-0.15	0	0	0	0	0	0
3/2/2025 7:20	44901	SCOT_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
3/2/2025 7:21	25801	SUTR_T2	4	6	2	4.28	4.13	-0.15	0.08	0.05	0	0	0	0	0	0
3/2/2025 7:22	44902	SCOT_T2	0	0	0	0	0	0	-0.77	-0.85	0	0	0	0	0	0
3/2/2025 7:23	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 7:26	40503	CRES_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 7:26	40505	CRES_T1	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
3/2/2025 7:27	45502	DERR_T2	38	14	-24	0.53	0.36	-0.17	-0.52	-0.52	0	0	0	0	0	0
3/2/2025 7:27	45501	DERR_T2	3	3	0	0.43	0	-0.43	0	0	0	0	0	0	0	0
3/2/2025 7:31	63804	HEMP_T1	1	1	0	6.1	5.8	-0.3	0.77	0.82	0	0	0	0	0	0
3/2/2025 7:36	13302	ORVI_T2	259	276	17	0.32	0.32	0	0.23	0.21	0	0	0	0	0	0
3/2/2025 7:36	14601	SWHI_T1	0	0	0	0	0	0	-2.78	-2.72	0	0	0	0	0	0
3/2/2025 7:37	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 7:40	53501	EVIL_T2	1	3	2	0.1	0.2	0.1	-0.38	-0.41	0	0	0	0	0	0
3/2/2025 7:40	53502	EVIL_T2	7	0	-7	0.14	0	-0.14	0	0	0	0	0	0	0	0
3/2/2025 7:41	45502	DERR_T2	13	14	1	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
3/2/2025 7:41	45501	DERR_T2	3	1	-2	0.3	0	-0.3	-0.36	-0.52	2	2	0	1800	1800	0
3/2/2025 7:44	67901	WNHO_T2	0	0	0	0	0	0	-0.23	-0.18	0	0	0	0	0	0
3/2/2025 7:45	52403	GRPA_T2	7	21	14	0.81	0.59	-0.22	-0.81	-0.81	0	0	0	0	0	0
3/2/2025 7:45	52401	GRPA_T2	17	3	-14	0.42	0	-0.42	0	0	0	0	0	0	0	0
3/2/2025 7:45	52402	GRPA_T2	3	6	3	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
3/2/2025 7:46	52401	GRPA_T2	17	3	-14	0.42	0	-0.42	-0.83	-0.8	0	0	0	0	0	0
3/2/2025 7:46	52403	GRPA_T2	7	21	14	0.81	0.59	-0.22	0	0	0	0	0	0	0	0
3/2/2025 7:46	52402	GRPA_T2	3	6	3	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
3/2/2025 7:48	15405	WALL_T1	0	0	0	0	0	0	-0.14	0	0	0	0	0	0	0
3/2/2025 7:50	67303	WYOM_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
3/2/2025 7:51	22402	MORG_T2	17	17	0	1.31	1.34	0.03	0	0	0	0	0	0	0	0
3/2/2025 7:51	51201	MTON_T1	1	1	0	2.8	2.5	-0.3	0.16	0.16	0	0	0	0	0	0
3/2/2025 7:52	48602	POCA_T1	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
3/2/2025 7:54	52004	LING_T2	3	2	-1	2.77	4.1	1.33	0	0	0	0	0	0	0	0
3/2/2025 7:54	43101	SMIL_T2	3	1	-2	2.6	2.9	0.3	0	0	0	0	0	0	0	0
3/2/2025 7:54	58702	ROSE_T2	0	0	0	0	0	0	-1.55	-1.56	0	0	0	0	0	0
3/2/2025 7:54	58706	ROSE_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
3/2/2025 7:54	43104	SMIL_T2	0	0	0	0	0	0	-0.63	-0.59	1	1	0	300	300	0
3/2/2025 7:54	52202	DEVO_T2	0	0	0	0	0	0	-1.23	-1.22	0	0	0	0	0	0
3/2/2025 7:54	52002	LING_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
3/2/2025 7:54	52204	DEVO_T2	5	4	-1	1.12	1.28	0.16	0	0	0	0	0	0	0	0
3/2/2025 7:55	60104	COCA_T2	0	0	0	0	0	0	-0.48	-0.49	1	1	0	600	600	0
3/2/2025 7:55	61001	DONV_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
3/2/2025 7:55	51306	WIND_T2	0	0	0	0	0	0	-0.81	-0.79	0	0	0	0	0	0
3/2/2025 7:57	15702	TANN_T2	4	9	5	0.4	0.43	0.03	-0.18	-0.16	0	0	0	0	0	0
3/2/2025 7:57	15703	TANN_T2	1	1	0	7.8	7.7	-0.1	0	0	0	0	0	0	0	0
3/2/2025 7:58	15203	SFAR_T2	0	0	0	0	0	0	-1.23	-1.26	0	0	0	0	0	0
3/2/2025 7:59	51702	OBER_T1	2	2	0	2.4	2.5	0.1	-0.94	-0.93	1	1	0	600	600	0
3/2/2025 7:59	63602	LETO_T1	0	0	0	0	0	0	-0.29	-0.25	0	0	0	0	0	0
3/2/2025 8:04	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 8:07	65001	NEFF_T2	0	0	0	0	0	0	-0.53	-0.58	0	0	0	0	0	0
3/2/2025 8:07	65005	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/2/2025 8:08	67603	WARW_T1	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
3/2/2025 8:09	52004	LING_T2	2	2	0	4.05	4.3	0.25	0.11	0.11	0	0	0	0	0	0
3/2/2025 8:13	59003	MIFF_T1	0	0	0	0	0	0	-0.64	-0.62	0	0	0	0	0	0
3/2/2025 8:17	60103	COCA_T2	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
3/2/2025 8:24	54603	SUMM_T2	0	0	0	0	0	0	-1.03	-1.03	1	1	0	900	900	0
3/2/2025 8:25	40302	TAMA_T3	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/2/2025 8:25	46702	RENO_T1	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
3/2/2025 8:25	40301	TAMA_T3	1	0	-1	0	0	0	0.81	0.76	1	1	0	1200	1200	0
3/2/2025 8:26	12505	MITR_T2	0	0	0	0	0	0	0.28	0.26	0	0	0	0	0	0
3/2/2025 8:26	64605	LEOL_T1	0	0	0	0	0	0	-0.24	-0.21	1	1	0	300	300	0
3/2/2025 8:26	12501	MITR_T2	1	1	0	8.6	8.1	-0.5	0	0	0	0	0	0	0	0
3/2/2025 8:26	11302	EMMA_T1	0	0	0	0	0	0	0.1	0.05	1	1	0	600	600	0
3/2/2025 8:26	12502	MITR_T2	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
3/2/2025 8:26	51202	MTON_T2	0	0	0	0	0	0	-0.92	-0.89	1	1	0	1200	1200	0
3/2/2025 8:26	11301	EMMA_T1	0	0	0	0	0	0	-0.65	-0.7	0	0	0	0	0	0
3/2/2025 8:27	53802	MBRG_T2	0	0	0	0	0	0	0.37	0.33	0	0	0	0	0	0
3/2/2025 8:27	64302	LINC_T2	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
3/2/2025 8:28	11903	ETEX_T1	0	0	0	0	0	0	0.53	0.43	0	0	0	0	0	0
3/2/2025 8:28	14705	TREX_T1	0	1	1	0	0	0	-0.29	-0.3	0	0	0	0	0	0
3/2/2025 8:28	59101	WALK_T2	0	0	0	0	0	0	-0.49	-0.46	0	0	0	0	0	0
3/2/2025 8:28	14704	TREX_T1	1	1	0	6.4	3	-3.4	0	0	0	0	0	0	0	0
3/2/2025 8:29	60605	NCOL_T2	0	0	0	0	0	0	-0.47	-0.52	0	0	0	0	0	0
3/2/2025 8:30	23001	SAJO_T1	0	0	0	0	0	0	-1.45	-1.4	0	0	0	0	0	0
3/2/2025 8:30	16302	ALPA_T2	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
3/2/2025 8:30	15203	SFAR_T2	0	0	0	0	0	0	-1.28	-1.26	0	0	0	0	0	0
3/2/2025 8:31	24003	WIBA_T1	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
3/2/2025 8:31	51202	MTON_T2	0	0	0	0	0	0	-0.92	-0.89	1	1	0	1200	1200	0
3/2/2025 8:31	24004	WIBA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/2/2025 8:34	62105	ELAN_T1	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
3/2/2025 8:35	64601	LEOL_T1	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
3/2/2025 8:35	53903	HALI_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/2/2025 8:35	53902	HALI_T2	1	1	0	4.8	5	0.2	0	0	0	0	0	0	0	0
3/2/2025 8:35	53901	HALI_T2	0	0	0	0	0	0	-1.23	-1.24	0	0	0	0	0	0
3/2/2025 8:36	15203	SFAR_T2	0	0	0	0	0	0	-1.28	-1.26	0	0	0	0	0	0
3/2/2025 8:37	61102	BERK_T5	0	0	0	0	0	0	0.64	0.71	1	1	0	300	300	0
3/2/2025 8:39	60701	BREC_T1	28	17	-11	0.16	0.26	0.1	-0.91	-0.35	2	1	-1	1200	600	-600
3/2/2025 8:39	44802	EDAN_T2	0	0	0	0	0	0	-3.38	-3.39	1	1	0	1200	1200	0
3/2/2025 8:40	40501	CRES_T2	9	7	-2	0.22	0.38	0.16	0	0	0	0	0	0	0	0
3/2/2025 8:40	67703	WERN_T2	0	0	0	0	0	0	-2.15	-2.08	1	1	0	900	900	0
3/2/2025 8:45	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 8:46	54505	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/2/2025 8:46	54506	ENOL_T2	0	0	0	0	0	0	-1.42	-1.46	0	1	1	0	600	600
3/2/2025 8:47	57701	PAXT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 8:47	57702	PAXT_T1	0	0	0	0	0	0	-0.61	-0.64	0	0	0	0	0	0
3/2/2025 8:52	15001	BLMO_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/2/2025 8:52	45902	AUBU_T1	2	9	7	0.45	0.57	0.12	0.01	0.01	1	1	0	600	600	0
3/2/2025 8:52	12701	MACU_T1	1	0	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/2/2025 8:52	12704	MACU_T1	0	0	0	0	0	0	-1.42	-1.46	1	1	0	600	600	0
3/2/2025 9:00	24003	WIBA_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
3/2/2025 9:00	52004	LING_T2	2	2	0	4.6	4.7	0.1	0	0	0	0	0	0	0	0
3/2/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
3/2/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	-0.53	-0.55	0	0	0	0	0	0
3/2/2025 9:00	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 9:00	63602	LETO_T1	0	0	0	0	0	0	-0.33	-0.37	0	0	0	0	0	0
3/2/2025 9:00	40503	CRES_T1	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/2/2025 9:00	61001	DONV_T1	0	1	1	0	0.6	0.6	-0.04	0.02	0	0	0	0	0	0
3/2/2025 9:00	15203	SFAR_T2	0	0	0	0	0	0	-1.28	-1.27	0	0	0	0	0	0
3/2/2025 9:00	40504	CRES_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/2/2025 9:00	52002	LING_T2	0	1	1	0	0	0	-0.09	-0.03	0	0	0	0	0	0
3/2/2025 9:00	51702	OBER_T1	3	6	3	1.83	1.83	0	-0.91	-0.93	1	1	0	600	600	0
3/2/2025 9:04	13806	SALI_T1	0	0	0	0	0	0	0.08	0.03	1	1	0	1200	1200	0
3/2/2025 9:04	13807	SALI_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 9:04	10705	CATA_T2	0	0	0	0	0	0	-0.8	-0.79	1	1	0	900	900	0
3/2/2025 9:05	57501	LAWN_T3	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
3/2/2025 9:06	44905	SCOT_T1	2	9	7	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
3/2/2025 9:06	65001	NEFF_T2	0	0	0	0	0	0	-0.56	-0.59	0	0	0	0	0	0
3/2/2025 9:06	66503	SMAN_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
3/2/2025 9:06	66504	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/2/2025 9:06	65005	NEFF_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/2/2025 9:06	44904	SCOT_T1	0	1	1	0	0.2	0.2	0.67	0.68	0	0	0	0	0	0
3/2/2025 9:07	52004	LING_T2	2	2	0	4.6	4.7	0.1	0.1	0.11	0	0	0	0	0	0
3/2/2025 9:07	23001	SAJO_T1	0	0	0	0	0	0	-1.39	-1.39	0	0	0	0	0	0
3/2/2025 9:07	56501	ROCK_T2	1	1	0	1	0.8	-0.2	-1.65	-1.66	0	0	0	0	0	0
3/2/2025 9:07	52002	LING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 9:07	52001	LING_T1	0	0	0	0	0	0	-0.9	-0.93	0	0	0	0	0	0
3/2/2025 9:09	28102	TWLA_T2	2	9	7	0.3	0.67	0.37	0.3	0.29	0	0	0	0	0	0
3/2/2025 9:13	51306	WIND_T2	0	0	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0
3/2/2025 9:14	66201	SISP_T2	1	0	-1	0.4	0	-0.4	-0.38	-0.44	0	0	0	0	0	0
3/2/2025 9:14	66202	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 9:14	65901	SAKR_T2	1	1	0	8.6	8.8	0.2	0	0	0	0	0	0	0	0
3/2/2025 9:14	65904	SAKR_T2	0	0	0	0	0	0	-2.02	-2	3	0	-3	1500	0	-1500
3/2/2025 9:17	60501	NMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/2/2025 9:17	60502	NMAN_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
3/2/2025 9:18	50106	HARR_T3	1	1	0	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
3/2/2025 9:18	50103	HARR_T3	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/2/2025 9:18	54506	ENOL_T2	0	0	0	0	0	0	-1.46	-1.47	0	0	0	0	0	0
3/2/2025 9:18	57702	PAXT_T1	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
3/2/2025 9:18	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/2/2025 9:18	50201	HARR_T3	2	2	0	2.85	3.7	0.85	0	0	0	0	0	0	0	0
3/2/2025 9:18	50105	HARR_T3	23	23	0	4.18	3.68	-0.5	0	0	0	0	0	0	0	0
3/2/2025 9:18	50107	HARR_T3	1	1	0	8.9	8.8	-0.1	0	0	0	0	0	0	0	0
3/2/2025 9:19	40505	CRES_T1	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
3/2/2025 9:19	40504	CRES_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/2/2025 9:24	16501	STRO_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 9:24	16505	STRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 9:49	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 9:49	60104	COCA_T2	4	4	0	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
3/2/2025 9:50	14402	SSLA_T1	4	1	-3	0.6	0	-0.6	0	0	0	0	0	0	0	0
3/2/2025 9:50	14404	SSLA_T1	4	4	0	0.4	0.27	-0.13	0	0	0	0	0	0	0	0
3/2/2025 9:50	57505	LAWN_T3	0	0	0	0	0	0	0.76	0.75	0	0	0	0	0	0
3/2/2025 9:50	14403	SSLA_T1	2	1	-1	0.55	0.6	0.05	0.85	0.82	0	0	0	0	0	0
3/2/2025 9:51	51306	WIND_T2	0	0	0	0	0	0	-0.85	0	0	0	0	0	0	0
3/2/2025 9:52	64501	LAVI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/2/2025 9:52	64503	LAVI_T1	0	0	0	0	0	0	-0.87	-0.88	0	0	0	0	0	0
3/2/2025 9:52	64502	LAVI_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/2/2025 9:53	57002	WHHI_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/2/2025 9:53	57001	WHHI_T2	0	0	0	0	0	0	-1.69	-1.68	0	0	0	0	0	0
3/2/2025 9:54	44203	POIN_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
3/2/2025 9:54	65901	SAKR_T2	1	2	1	8.5	4.4	-4.1	0	0	0	0	0	0	0	0
3/2/2025 9:54	65903	SAKR_T2	0	0	0	0	0	0	-1.32	-1.31	0	0	0	0	0	0
3/2/2025 9:56	57302	MOAL_T2	0	0	0	0	0	0	-1.39	-1.31	0	0	0	0	0	0
3/2/2025 9:56	57304	MOAL_T2	1	2	1	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
3/2/2025 9:56	57303	MOAL_T2	1	1	0	8.3	8.4	0.1	0	0	0	0	0	0	0	0
3/2/2025 10:00	22905	HARW_T1	110	133	23	1.07	1.39	0.32	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/2/2025 10:00	22903	HARW_T1	32	15	-17	0.9	1.87	0.97	0.09	-1.08	0	0	0	0	0	0
3/2/2025 10:00	22904	HARW_T1	8	11	3	0.91	1.09	0.18	0	0	0	0	0	0	0	0
3/2/2025 10:00	22901	HARW_T1	14	20	6	1.24	0.57	-0.67	0	0	0	0	0	0	0	0
3/2/2025 10:09	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 10:09	60104	COCA_T2	4	4	0	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
3/2/2025 10:42	60501	NMAN_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/2/2025 10:42	51004	NHAR_T1	5	6	1	2.32	1.95	-0.37	0	0	0	0	0	0	0	0
3/2/2025 10:42	51006	NHAR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/2/2025 10:42	60504	NMAN_T2	0	0	0	0	0	0	0.53	0.55	0	0	0	0	0	0
3/2/2025 10:42	51003	NHAR_T1	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
3/2/2025 10:42	51002	NHAR_T1	8	20	12	0.29	0.23	-0.06	0	0	0	0	0	0	0	0
3/2/2025 10:45	47101	MARL_T1	4	4	0	0.7	0.23	-0.47	-0.89	-0.91	0	0	0	0	0	0
3/2/2025 10:45	47104	MARL_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 10:46	67602	WARW_T2	1	1	0	0.9	1	0.1	1.42	1.45	0	0	0	0	0	0
3/2/2025 10:50	52503	PROG_T2	0	0	0	0	0	0	0.58	0.59	0	0	0	0	0	0
3/2/2025 10:54	56802	BENV_T2	0	3	3	0	0.4	0.4	-0.88	-0.94	0	0	0	0	0	0
3/2/2025 10:56	58401	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/2/2025 11:01	62606	ENGL_T1	0	0	0	0	0	0	-1.5	-1.52	0	0	0	0	0	0
3/2/2025 11:03	53501	EVIL_T2	2	2	0	0.35	0.65	0.3	-0.41	-0.41	0	0	0	0	0	0
3/2/2025 11:06	51505	SWAT_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
3/2/2025 11:08	45801	HEGI_T1	0	0	0	0	0	0	-1.04	-1.03	0	0	0	0	0	0
3/2/2025 11:10	12004	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:10	12002	HATF_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/2/2025 11:10	12006	HATF_T1	2	2	0	0.85	0.45	-0.4	0	0	0	0	0	0	0	0
3/2/2025 11:10	12007	HATF_T1	1	2	1	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
3/2/2025 11:10	12003	HATF_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
3/2/2025 11:17	16505	STRO_T1	0	7	7	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:17	16504	STRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:18	12704	MACU_T1	0	0	0	0	0	0	-1.49	-1.51	0	0	0	0	0	0
3/2/2025 11:18	64701	LITI_T1	0	0	0	0	0	0	0.19	0.14	0	0	0	0	0	0
3/2/2025 11:19	44203	POIN_T2	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
3/2/2025 11:19	67601	WARW_T2	0	0	0	0	0	0	-0.56	-0.52	0	0	0	0	0	0
3/2/2025 11:19	61002	DONV_T2	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
3/2/2025 11:19	67602	WARW_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
3/2/2025 11:19	60101	COCA_T1	2	4	2	0.9	0.68	-0.22	0.5	0.51	0	0	0	0	0	0
3/2/2025 11:19	43101	SMIL_T2	2	3	1	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
3/2/2025 11:19	50106	HARR_T3	2	2	0	0.85	1.3	0.45	0	0	0	0	0	0	0	0
3/2/2025 11:19	50201	HARR_T3	2	2	0	3.45	3.5	0.05	0	0	0	0	0	0	0	0
3/2/2025 11:19	41902	REED_T1	11	5	-6	0.88	0.2	-0.68	0	0	0	0	0	0	0	0
3/2/2025 11:19	50202	HARR_T3	0	0	0	0	0	0	-1.48	-1.48	0	0	0	0	0	0
3/2/2025 11:19	50107	HARR_T3	1	1	0	9.3	9.7	0.4	0	0	0	0	0	0	0	0
3/2/2025 11:19	60102	COCA_T1	0	9	9	0	0.17	0.17	0	0	0	0	0	0	0	0
3/2/2025 11:19	66401	ROBE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:19	50105	HARR_T3	26	32	6	2.87	2.37	-0.5	0	0	0	0	0	0	0	0
3/2/2025 11:19	43103	SMIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/2/2025 11:19	50103	HARR_T3	8	12	4	1.65	1.08	-0.57	0	0	0	0	0	0	0	0
3/2/2025 11:19	45801	HEGI_T1	0	0	0	0	0	0	-1.04	-1.03	0	0	0	0	0	0
3/2/2025 11:19	41901	REED_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/2/2025 11:19	44202	POIN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/2/2025 11:20	12505	MITR_T2	1	1	0	0.5	0.1	-0.4	0.45	0.35	0	0	0	0	0	0
3/2/2025 11:20	13901	SEID_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/2/2025 11:20	40504	CRES_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/2/2025 11:20	14401	SSLA_T1	0	3	3	0	0	0	-1.13	-1.12	0	0	0	0	0	0
3/2/2025 11:20	15405	WALL_T1	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
3/2/2025 11:20	59201	THOM_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/2/2025 11:20	12501	MITR_T2	1	1	0	8.9	9	0.1	0	0	0	0	0	0	0	0
3/2/2025 11:20	13902	SEID_T1	1	1	0	0.7	0.9	0.2	0.52	0.55	0	0	0	0	0	0
3/2/2025 11:20	40505	CRES_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
3/2/2025 11:20	12502	MITR_T2	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
3/2/2025 11:20	13701	SCHN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:20	61102	BERK_T5	0	0	0	0	0	0	0.62	0.77	0	0	0	0	0	0
3/2/2025 11:20	64902	MILL_T2	0	0	0	0	0	0	-1.35	-1.31	0	0	0	0	0	0
3/2/2025 11:20	44302	BEAV_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/2/2025 11:20	44301	BEAV_T2	13	26	13	0.31	0.35	0.04	-0.63	-0.6	0	0	0	0	0	0
3/2/2025 11:20	65602	QVIL_T2	19	32	13	0.27	0.32	0.05	0	0	0	0	0	0	0	0
3/2/2025 11:20	65601	QVIL_T2	3	3	0	0.2	0.27	0.07	0	0	0	0	0	0	0	0
3/2/2025 11:20	53501	EVIL_T2	2	2	0	0.55	0.55	0	-0.41	-0.45	0	0	0	0	0	0
3/2/2025 11:20	15401	WALL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/2/2025 11:20	14403	SSLA_T1	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
3/2/2025 11:20	60201	ATGL_T2	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
3/2/2025 11:20	13904	SEID_T1	24	25	1	1.06	0.76	-0.3	0	0	0	0	0	0	0	0
3/2/2025 11:20	14402	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:20	65603	QVIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/2/2025 11:20	59202	THOM_T1	5	14	9	0.46	0.46	0	0	0	0	0	0	0	0	0
3/2/2025 11:21	66701	STRA_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/2/2025 11:21	55001	NEWP_T1	0	1	1	0	0.4	0.4	-2.79	-2.91	0	0	0	0	0	0
3/2/2025 11:21	55002	NEWP_T1	6	6	0	0.75	0.63	-0.12	0	0	0	0	0	0	0	0
3/2/2025 11:21	66702	STRA_T1	0	0	0	0	0	0	-0.2	-0.14	0	0	0	0	0	0
3/2/2025 11:27	64605	LEOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:28	43103	SMIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/2/2025 11:28	57205	ROSS_T1	3	3	0	0.67	1.13	0.46	0	-0.79	0	0	0	0	0	0
3/2/2025 11:28	42902	MIDD_T2	1	1	0	0.2	0.5	0.3	-1.3	-1.3	0	0	0	0	0	0
3/2/2025 11:28	67805	WLAN_T1	0	0	0	0	0	0	-1.58	-1.6	0	0	0	0	0	0
3/2/2025 11:28	43101	SMIL_T2	2	3	1	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
3/2/2025 11:28	67605	WARW_T1	10	23	13	0.36	0.42	0.06	0	0	0	0	0	0	0	0
3/2/2025 11:28	23502	GEOR_T1	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
3/2/2025 11:28	58203	NEWV_T2	1	1	0	4.1	5	0.9	-0.37	-0.36	0	0	0	0	0	0
3/2/2025 11:28	43105	SMIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:28	67804	WLAN_T1	3	8	5	0.33	0.35	0.02	0	0	0	0	0	0	0	0
3/2/2025 11:28	16902	MECK_T1	5	1	-4	0.2	0.6	0.4	-1.03	-1.04	0	0	0	0	0	0
3/2/2025 11:28	66402	ROBE_T1	0	0	0	0	0	0	-1.7	-1.73	0	0	0	0	0	0
3/2/2025 11:28	63602	LETO_T1	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
3/2/2025 11:29	47101	MARL_T1	4	13	9	0.28	0.23	-0.05	-0.94	-0.87	0	0	0	0	0	0
3/2/2025 11:29	42802	SELI_T1	0	0	0	0	0	0	-1.48	-1.47	0	0	0	0	0	0
3/2/2025 11:29	43101	SMIL_T2	2	3	1	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
3/2/2025 11:29	45301	WBER_T2	0	0	0	0	0	0	-0.81	-0.86	0	0	0	0	0	0
3/2/2025 11:29	43103	SMIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/2/2025 11:29	45303	WBER_T2	1	1	0	9.7	9.7	0	0	0	0	0	0	0	0	0
3/2/2025 11:29	42801	SELI_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
3/2/2025 11:29	40504	CRES_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/2/2025 11:29	62105	ELAN_T1	2	2	0	0.45	0.5	0.05	0.49	0.48	0	0	0	0	0	0
3/2/2025 11:29	62106	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/2/2025 11:30	55503	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:30	16702	MACK_T1	1	5	4	0.4	0.7	0.3	-0.96	-0.94	0	0	0	0	0	0
3/2/2025 11:31	57104	SPHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:31	57106	SPHI_T2	3	3	0	1.3	1.33	0.03	0	0	0	0	0	0	0	0
3/2/2025 11:31	57101	SPHI_T2	5	0	-5	0.18	0	-0.18	0	0	0	0	0	0	0	0
3/2/2025 11:32	24701	FLND_T2	22	34	12	0.79	0.61	-0.18	0	0	0	0	0	0	0	0
3/2/2025 11:32	24702	FLND_T2	0	1	1	0	0.2	0.2	-0.85	-0.67	0	0	0	0	0	0
3/2/2025 11:32	24703	FLND_T2	2	3	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/2/2025 11:33	61102	BERK_T5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:33	64203	KINZ_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/2/2025 11:33	64204	KINZ_T1	60	67	7	0.58	0.66	0.08	0	0	0	0	0	0	0	0
3/2/2025 11:33	66201	SISP_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
3/2/2025 11:33	45001	LIME_2	33	62	29	0.38	0.46	0.08	0	0	0	0	0	0	0	0
3/2/2025 11:33	57002	WHHI_T2	2	3	1	0.3	0.3	0	0	0	0	0	0	0	0	0
3/2/2025 11:33	45003	LIME_2	1	2	1	4	3.7	-0.3	0.34	0.31	0	0	0	0	0	0
3/2/2025 11:33	54001	SDLE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:33	45002	LIME_2	1	2	1	5	2.9	-2.1	0	0	0	0	0	0	0	0
3/2/2025 11:33	57001	WHHI_T2	0	0	0	0	0	0	-1.71	-1.72	0	0	0	0	0	0
3/2/2025 11:33	64201	KINZ_T1	0	0	0	0	0	0	-0.4	-0.48	0	0	0	0	0	0
3/2/2025 11:33	65901	SAKR_T2	2	2	0	4.85	4.85	0	-1.29	-1.25	1	1	0	900	900	0
3/2/2025 11:33	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:34	12803	MICK_T1	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
3/2/2025 11:34	11101	EGYP_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/2/2025 11:34	12801	MICK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:34	61302	EARL_T1	3	3	0	0.57	0.63	0.06	0	0	0	0	0	0	0	0
3/2/2025 11:34	43104	SMIL_T2	0	0	0	0	0	0	0	-0.69	0	0	0	0	0	0
3/2/2025 11:34	11401	FARM_T1	1	1	0	0.6	0.7	0.1	-0.71	-0.67	0	0	0	0	0	0
3/2/2025 11:34	46302	ROHR_T1	1	4	3	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/2/2025 11:34	11406	FARM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/2/2025 11:34	61304	EARL_T1	2	3	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/2/2025 11:34	46301	ROHR_T1	1	1	0	4.8	4.8	0	0.25	0	0	0	0	0	0	0
3/2/2025 11:34	11104	EGYP_T1	1	2	1	0.5	1.4	0.9	0	0	0	0	0	0	0	0
3/2/2025 11:34	11404	FARM_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/2/2025 11:34	43101	SMIL_T2	3	2	-1	0.83	0.6	-0.23	0	0	0	0	0	0	0	0
3/2/2025 11:34	43102	SMIL_T2	0	0	0	0	0	0	-0.65	-0.63	0	0	0	0	0	0
3/2/2025 11:34	11405	FARM_T1	1	3	2	0.7	0.57	-0.13	0	0	0	0	0	0	0	0
3/2/2025 11:34	43103	SMIL_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
3/2/2025 11:34	11102	EGYP_T1	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
3/2/2025 11:34	57505	LAWN_T3	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
3/2/2025 11:34	11403	FARM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/2/2025 11:34	61303	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:35	65603	QVIL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/2/2025 11:35	58202	NEWV_T1	3	6	3	0.23	0.3	0.07	-0.26	-0.19	0	0	0	0	0	0
3/2/2025 11:35	58201	NEWV_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/2/2025 11:35	60803	BUCK_T1	0	0	0	0	0	0	-0.49	-0.47	0	0	0	0	0	0
3/2/2025 11:35	65602	QVIL_T2	31	32	1	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
3/2/2025 11:35	55002	NEWP_T1	5	8	3	0.5	0.66	0.16	0	0	0	0	0	0	0	0
3/2/2025 11:35	55001	NEWP_T1	1	1	0	0.4	0.2	-0.2	-0.97	-0.99	0	0	0	0	0	0
3/2/2025 11:35	65601	QVIL_T2	2	3	1	0.25	0.3	0.05	-0.96	-0.97	0	0	0	0	0	0
3/2/2025 11:36	13807	SALI_T1	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0
3/2/2025 11:36	47101	MARL_T1	12	18	6	0.49	0.22	-0.27	-0.87	-0.91	0	0	0	0	0	0
3/2/2025 11:37	63305	GREE_T1	3	3	0	0.2	0.2	0	-2.61	-2.63	0	0	0	0	0	0
3/2/2025 11:37	64704	LITI_T1	0	0	0	0	0	0	-0.08	-0.11	0	0	0	0	0	0
3/2/2025 11:38	43103	SMIL_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
3/2/2025 11:38	43106	SMIL_T2	0	0	0	0	0	0	-0.56	-0.5	0	0	0	0	0	0
3/2/2025 11:38	43101	SMIL_T2	3	2	-1	0.83	0.6	-0.23	0	0	0	0	0	0	0	0
3/2/2025 11:40	22402	MORG_T2	17	17	0	1.35	1.61	0.26	0	0	0	0	0	0	0	0
3/2/2025 11:40	57306	MOAL_T2	0	0	0	0	0	0	-2.98	-3	0	0	0	0	0	0
3/2/2025 11:40	57303	MOAL_T2	1	1	0	8.2	7.9	-0.3	0	0	0	0	0	0	0	0
3/2/2025 11:41	62105	ELAN_T1	2	2	0	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
3/2/2025 11:41	62102	ELAN_T1	0	0	0	0	0	0	0.77	0.71	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/2/2025 11:41	62106	ELAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/2/2025 11:42	45502	DERR_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/2/2025 11:42	45501	DERR_T2	2	4	2	0.25	0.38	0.13	-0.49	-0.45	0	0	0	0	0	0
3/2/2025 11:44	40501	CRES_T2	14	18	4	0.37	0.41	0.04	0	0	0	0	0	0	0	0
3/2/2025 11:44	64305	LINC_T1	2	3	1	0.5	0.43	-0.07	-0.61	-0.63	0	0	0	0	0	0
3/2/2025 11:44	40502	CRES_T2	10	11	1	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
3/2/2025 11:45	61202	REIN_T1	3	3	0	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
3/2/2025 11:46	65603	QVIL_T2	1	1	0	0.3	0.5	0.2	0	-0.9	0	0	0	0	0	0
3/2/2025 11:46	65602	QVIL_T2	25	32	7	0.31	0.33	0.02	0	0	0	0	0	0	0	0
3/2/2025 11:46	65601	QVIL_T2	3	4	1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
3/2/2025 11:47	20402	ASHF_T2	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
3/2/2025 11:47	20401	ASHF_T2	5	9	4	0.58	0.46	-0.12	0	0	0	0	0	0	0	0
3/2/2025 11:47	20403	ASHF_T2	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
3/2/2025 11:48	23001	SAJO_T1	0	0	0	0	0	0	-1.41	-1.42	0	0	0	0	0	0
3/2/2025 11:50	10103	ALLE_T3	1	7	6	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/2/2025 11:50	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:50	10107	ALLE_T3	9	2	-7	0.4	0.4	0	0	0	0	0	0	0	0	0
3/2/2025 11:50	51904	COPA_T1	1	3	2	0.8	0.47	-0.33	0	0	0	0	0	0	0	0
3/2/2025 11:50	10105	ALLE_T3	7	8	1	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
3/2/2025 11:50	16801	WAGN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/2/2025 11:50	10109	ALLE_T3	0	4	4	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:50	51906	COPA_T1	0	0	0	0	0	0	-0.89	-0.91	0	0	0	0	0	0
3/2/2025 11:50	10101	ALLE_T3	56	56	0	0.86	0.86	0	0	0	0	0	0	0	0	0
3/2/2025 11:50	15203	SFAR_T2	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/2/2025 11:50	10205	ALLE_T3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:50	52102	MEIS_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/2/2025 11:50	52101	MEIS_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/2/2025 11:53	58706	ROSE_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/2/2025 11:53	58701	ROSE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:56	67202	TEHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 11:56	67204	TEHI_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/2/2025 11:56	51604	DUKE_T2	0	1	1	0	0.2	0.2	-1.51	-1.56	0	0	0	0	0	0
3/2/2025 11:57	56801	BENV_T1	15	7	-8	0.65	0.5	-0.15	-1.09	-0.65	0	0	0	0	0	0
3/2/2025 11:57	56803	BENV_T1	3	2	-1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
3/2/2025 12:01	51604	DUKE_T2	1	1	0	0.2	0.2	0	-1.51	-1.56	0	0	0	0	0	0
3/2/2025 12:05	64501	LAVI_T1	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
3/2/2025 12:05	64502	LAVI_T1	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
3/2/2025 12:05	64503	LAVI_T1	0	0	0	0	0	0	-0.79	-0.87	0	0	0	0	0	0
3/2/2025 12:05	66701	STRA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 12:05	66702	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 12:09	64101	REFR_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
3/2/2025 12:09	56803	BENV_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
3/2/2025 12:09	56801	BENV_T1	6	5	-1	0.53	0.56	0.03	-0.65	-0.66	0	0	0	0	0	0
3/2/2025 12:10	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 12:10	66201	SISP_T2	1	1	0	1.7	1.9	0.2	0	0	0	0	0	0	0	0
3/2/2025 12:10	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 12:12	42503	ALTA_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
3/2/2025 12:14	58706	ROSE_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/2/2025 12:14	58701	ROSE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 12:14	57303	MOAL_T2	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
3/2/2025 12:14	57304	MOAL_T2	0	0	0	0	0	0	-0.2	-0.33	0	0	0	0	0	0
3/2/2025 12:15	65302	NBRI_T2	1	0	-1	0.1	0	-0.1	-1.5	-1.44	0	0	0	0	0	0
3/2/2025 12:16	66302	MCGO_T2	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
3/2/2025 12:16	52502	PROG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/2/2025 12:16	52503	PROG_T2	1	1	0	0.1	0.5	0.4	0.5	0.55	0	0	0	0	0	0
3/2/2025 12:16	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/2/2025 12:16	54506	ENOL_T2	0	0	0	0	0	0	-1.44	-1.48	0	0	0	0	0	0
3/2/2025 12:16	66303	MCGO_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/2/2025 12:16	54504	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/2/2025 12:18	64305	LINC_T1	3	4	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
3/2/2025 12:19	53902	HALI_T2	2	3	1	2.95	2.07	-0.88	-0.91	-0.92	0	0	0	0	0	0
3/2/2025 12:19	53901	HALI_T2	3	2	-1	0.3	0.65	0.35	0	0	0	0	0	0	0	0
3/2/2025 12:19	53903	HALI_T2	5	5	0	0.7	0.56	-0.14	0	0	0	0	0	0	0	0
3/2/2025 12:20	15204	SFAR_T2	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
3/2/2025 12:20	56802	BENV_T2	1	1	0	0.4	0.5	0.1	-0.47	-0.52	0	0	0	0	0	0
3/2/2025 12:20	66401	ROBE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 12:20	15203	SFAR_T2	2	3	1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/2/2025 12:21	52102	MEIS_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/2/2025 12:21	52101	MEIS_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/2/2025 12:23	66501	SMAN_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/2/2025 12:23	66502	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/2/2025 12:23	66505	SMAN_T2	1	1	0	0.3	0.3	0	-0.4	-0.34	0	0	0	0	0	0
3/2/2025 12:23	66504	SMAN_T2	2	4	2	0.9	0.68	-0.22	0	0	0	0	0	0	0	0
3/2/2025 12:25	51202	MTON_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
3/2/2025 12:26	44201	POIN_T1	0	1	1	0	0.1	0.1	-1.87	-1.84	0	0	0	0	0	0
3/2/2025 12:26	26101	THRO_T1	0	0	0	0	0	0	-2.13	-1.94	0	0	0	0	0	0
3/2/2025 12:32	51902	COPA_T1	0	0	0	0	0	0	-0.81	-0.76	0	0	0	0	0	0
3/2/2025 12:32	51904	COPA_T1	2	3	1	0.7	0.67	-0.03	0	0	0	0	0	0	0	0
3/2/2025 12:32	51905	COPA_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 12:34	14201	EALL_T1	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
3/2/2025 12:36	15203	SFAR_T2	1	3	2	0.3	0.43	0.13	0	0	0	0	0	0	0	0
3/2/2025 12:36	15204	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 12:46	14308	SUMN_T1	43	50	7	2.06	2.19	0.13	0	0	0	0	0	0	0	0
3/2/2025 12:46	44301	BEAV_T2	3	11	8	0.9	0.46	-0.44	0	0	0	0	0	0	0	0
3/2/2025 12:46	66504	SMAN_T2	4	3	-1	0.68	0.73	0.05	0	0	0	0	0	0	0	0
3/2/2025 12:46	14301	SUMN_T1	2	4	2	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
3/2/2025 12:46	66505	SMAN_T2	1	4	3	0.3	0.5	0.2	-0.34	-0.36	0	0	0	0	0	0
3/2/2025 12:46	14302	SUMN_T1	11	18	7	0.81	0.96	0.15	0	0	0	0	0	0	0	0
3/2/2025 12:46	14303	SUMN_T1	10	9	-1	2.53	7.4	4.87	0	0	0	0	0	0	0	0
3/2/2025 12:46	14305	SUMN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/2/2025 12:46	14307	SUMN_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
3/2/2025 12:46	66501	SMAN_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
3/2/2025 12:46	66502	SMAN_T2	3	3	0	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/2/2025 12:46	44302	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/2/2025 12:46	14306	SUMN_T1	28	30	2	2.28	1.89	-0.39	0	0	0	0	0	0	0	0
3/2/2025 12:46	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/2/2025 12:47	51603	DUKE_T1	0	0	0	0	0	0	-0.07	-0.18	0	0	0	0	0	0
3/2/2025 12:47	64305	LINC_T1	2	2	0	0.4	0.65	0.25	0	0	0	0	0	0	0	0
3/2/2025 12:47	64301	LINC_T1	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
3/2/2025 12:48	13704	SOHN_T2	0	1	1	0	0.1	0.1	0	-0.83	0	0	0	0	0	0
3/2/2025 12:48	47101	MARL_T1	13	22	9	1.52	0.18	-1.34	-0.93	-0.9	0	0	0	0	0	0
3/2/2025 12:54	14603	SWHI_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/2/2025 12:54	14601	SWHI_T1	0	1	1	0	0.3	0.3	-1.36	-1.36	0	0	0	0	0	0
3/2/2025 12:54	14605	SWHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 12:57	60101	COCA_T1	2	3	1	0.95	0.6	-0.35	0.41	0.41	0	0	0	0	0	0
3/2/2025 12:57	60102	COCA_T1	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/2/2025 12:57	57505	LAWN_T3	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
3/2/2025 13:02	65302	NBRI_T2	0	1	1	0	0.1	0.1	-1.44	-1.46	0	0	0	0	0	0
3/2/2025 13:03	59201	THOM_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/2/2025 13:03	59202	THOM_T1	8	9	1	0.4	0.44	0.04	0	0	0	0	0	0	0	0
3/2/2025 13:05	44302	BEAV_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/2/2025 13:05	44301	BEAV_T2	9	9	0	0.5	0.4	-0.1	-0.64	-0.69	0	0	0	0	0	0
3/2/2025 13:06	27301	PARR_T1	4	8	4	0.18	0.37	0.19	0	0	0	0	0	0	0	0
3/2/2025 13:06	27302	PARR_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
3/2/2025 13:09	42601	TUSC_T1	57	69	12	1.15	1.01	-0.14	-0.44	-0.43	0	0	0	0	0	0
3/2/2025 13:11	57505	LAWN_T3	1	0	-1	6	0	-6	0.7	0.68	0	0	0	0	0	0
3/2/2025 13:12	44802	EDAN_T2	0	0	0	0	0	0	-3.48	-3.48	0	0	0	0	0	0
3/2/2025 13:12	44801	EDAN_T2	3	2	-1	0.27	0.35	0.08	0	0	0	0	0	0	0	0
3/2/2025 13:14	40603	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 13:14	40601	PIGR_T1	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
3/2/2025 13:23	43108	SMIL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/2/2025 13:23	43101	SMIL_T2	2	1	-1	1.2	0.4	-0.8	0	0	0	0	0	0	0	0
3/2/2025 13:23	43103	SMIL_T2	0	1	1	0	0.3	0.3	-1.8	-1.77	0	0	0	0	0	0
3/2/2025 13:24	10801	OHIH_T1	7	7	0	0.46	0.5	0.04	-2.15	-2.17	0	0	0	0	0	0
3/2/2025 13:29	22903	HARW_T1	23	30	7	1.42	0.44	-0.98	-1.14	-1.13	0	0	0	0	0	0
3/2/2025 13:29	22901	HARW_T1	15	21	6	0.94	0.62	-0.32	0	0	0	0	0	0	0	0
3/2/2025 13:29	22905	HARW_T1	161	129	-32	1.37	1.12	-0.25	0	0	0	0	0	0	0	0
3/2/2025 13:29	22904	HARW_T1	5	12	7	1.18	0.73	-0.45	0	0	0	0	0	0	0	0
3/2/2025 13:30	64501	LAVI_T1	3	2	-1	0.33	0.35	0.02	0	0	0	0	0	0	0	0
3/2/2025 13:30	64503	LAVI_T1	1	1	0	0.4	0.3	-0.1	-0.93	-0.98	0	0	0	0	0	0
3/2/2025 13:30	64502	LAVI_T1	10	8	-2	0.29	0.29	0	0	0	0	0	0	0	0	0
3/2/2025 13:35	51703	OBER_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 13:35	51701	OBER_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
3/2/2025 13:42	57505	LAWN_T3	0	1	1	0	0	0	0.68	0.65	0	0	0	0	0	0
3/2/2025 13:42	46902	MNTG_T2	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
3/2/2025 13:42	14702	TREX_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/2/2025 13:42	46901	MNTG_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/2/2025 13:42	46903	MNTG_T2	1	2	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
3/2/2025 13:44	51902	COPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 13:44	51904	COPA_T1	2	6	4	0.8	0.62	-0.18	0	0	0	0	0	0	0	0
3/2/2025 13:45	42802	SELI_T1	0	1	1	0	0.1	0.1	-1.52	-1.55	0	0	0	0	0	0
3/2/2025 13:45	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 13:45	66203	SISP_T2	0	0	0	0	0	0	-0.11	-0.13	0	0	0	0	0	0
3/2/2025 13:45	66201	SISP_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
3/2/2025 13:45	42801	SELI_T1	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
3/2/2025 13:46	64502	LAVI_T1	8	2	-6	0.29	0.35	0.06	0	0	0	0	0	0	0	0
3/2/2025 13:46	64501	LAVI_T1	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
3/2/2025 13:46	51204	MTON_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
3/2/2025 13:46	51202	MTON_T2	2	2	0	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
3/2/2025 13:46	64503	LAVI_T1	1	1	0	0.3	0.1	-0.2	-0.98	-0.91	0	0	0	0	0	0
3/2/2025 13:48	51904	COPA_T1	6	6	0	0.62	0.83	0.21	0	0	0	0	0	0	0	0
3/2/2025 13:48	51905	COPA_T1	0	0	0	0	0	0	-0.64	-0.7	0	0	0	0	0	0
3/2/2025 13:49	60101	COCA_T1	3	3	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/2/2025 13:49	60102	COCA_T1	1	1	0	0.1	0.1	0	-0.26	-0.21	0	0	0	0	0	0
3/2/2025 13:50	63803	HEMP_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/2/2025 13:50	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
3/2/2025 13:50	63801	HEMP_T1	5	5	0	0.4	0.48	0.08	-0.32	-0.34	0	0	0	0	0	0
3/2/2025 13:55	51603	DUKE_T1	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
3/2/2025 13:58	43301	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 13:58	43302	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 14:01	64501	LAVI_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
3/2/2025 14:01	64503	LAVI_T1	1	0	-1	0.1	0	-0.1	-0.91	-0.94	0	0	0	0	0	0
3/2/2025 14:01	64502	LAVI_T1	2	2	0	0.35	0.2	-0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/2/2025 14:05	62605	ENGL_T1	0	0	0	0	0	0	-1.46	-1.46	0	0	0	0	0	0
3/2/2025 14:05	62606	ENGL_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/2/2025 14:06	62106	ELAN_T1	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
3/2/2025 14:06	62105	ELAN_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
3/2/2025 14:06	62102	ELAN_T1	0	0	0	0	0	0	0.85	0.63	0	0	0	0	0	0
3/2/2025 14:07	64305	LINC_T1	1	2	1	0.6	0.3	-0.3	-0.73	-0.73	0	0	0	0	0	0
3/2/2025 14:09	57505	LAWN_T3	0	0	0	0	0	0	0.68	0.64	0	0	0	0	0	0
3/2/2025 14:13	26002	WDAM_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/2/2025 14:13	26001	WDAM_T1	1	0	-1	0.6	0	-0.6	-0.34	-0.34	0	0	0	0	0	0
3/2/2025 14:16	12601	MACA_T1	1	1	0	1.4	0.5	-0.9	0	0	0	0	0	0	0	0
3/2/2025 14:16	12602	MACA_T1	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/2/2025 14:16	67901	WNHO_T2	6	6	0	1.05	1.1	0.05	-0.24	-0.23	0	0	0	0	0	0
3/2/2025 14:16	40601	PIGR_T1	2	2	0	0.3	0.4	0.1	-0.8	-0.83	0	0	0	0	0	0
3/2/2025 14:16	12605	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/2/2025 14:16	12603	MACA_T1	3	3	0	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
3/2/2025 14:16	12606	MACA_T1	0	0	0	0	0	0	-0.18	-0.14	0	0	0	0	0	0
3/2/2025 14:18	42503	ALTA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 14:18	14502	SCHO_T1	4	3	-1	1.15	1.37	0.22	0	0	0	0	0	0	0	0
3/2/2025 14:18	42501	ALTA_T2	1	1	0	1	1.5	0.5	0	0	0	0	0	0	0	0
3/2/2025 14:18	40601	PIGR_T1	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/2/2025 14:18	14501	SCHO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 14:18	40602	PIGR_T1	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
3/2/2025 14:21	66703	STRA_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/2/2025 14:21	66702	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 14:21	55101	WERT_T1	0	0	0	0	0	0	-1.95	-1.37	1	1	0	600	600	0
3/2/2025 14:28	51202	MTON_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/2/2025 14:28	51204	MTON_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
3/2/2025 14:44	14702	TREX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 14:48	51702	OBER_T1	2	2	0	2.2	2.5	0.3	-0.91	-0.93	0	0	0	0	0	0
3/2/2025 14:50	45702	LIND_T2	3	2	-1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
3/2/2025 14:50	45701	LIND_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/2/2025 14:53	63501	HEID_TBK1-2	35	8	-27	0.21	0.25	0.04	-0.35	-0.4	0	0	0	0	0	0
3/2/2025 14:58	63602	LETO_T1	0	0	0	0	0	0	-0.48	-0.55	0	0	0	0	0	0
3/2/2025 14:59	54203	PENN_T1	25	24	-1	1.16	1.23	0.07	0	0	0	0	0	0	0	0
3/2/2025 14:59	54201	PENN_T1	92	114	22	0.38	0.35	-0.03	-1.41	-1.39	0	0	0	0	0	0
3/2/2025 15:04	63501	HEID_TBK1-2	7	4	-3	0.26	0.35	0.09	-0.71	-0.8	0	0	0	0	0	0
3/2/2025 15:05	53801	MBRG_T2	41	49	8	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
3/2/2025 15:05	53803	MBRG_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/2/2025 15:05	53802	MBRG_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
3/2/2025 15:10	67402	WAKE_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/2/2025 15:12	47203	FAXO_T2	0	0	0	0	0	0	-1.73	-1.72	0	0	0	0	0	0
3/2/2025 15:13	44801	EDAN_T2	2	0	-2	0.15	0	-0.15	-0.36	-0.42	0	0	0	0	0	0
3/2/2025 15:18	64101	REFR_T1	1	1	0	0.5	0.7	0.2	-0.02	-0.01	0	0	0	0	0	0
3/2/2025 15:18	44801	EDAN_T2	0	1	1	0	0	0	-0.36	-0.42	0	0	0	0	0	0
3/2/2025 15:19	64101	REFR_T1	1	1	0	0.5	0.7	0.2	-0.02	-0.01	0	0	0	0	0	0
3/2/2025 15:21	53803	MBRG_T2	1	1	0	0.1	0.1	0	0.04	0.05	0	0	0	0	0	0
3/2/2025 15:21	53801	MBRG_T2	38	41	3	0.16	0.18	0.02	0	0	0	0	0	0	0	0
3/2/2025 15:22	53801	MBRG_T2	38	41	3	0.16	0.18	0.02	0	0	0	0	0	0	0	0
3/2/2025 15:22	53803	MBRG_T2	1	1	0	0.1	0.1	0	0.05	0.05	0	0	0	0	0	0
3/2/2025 15:26	60801	BUCK_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/2/2025 15:30	60801	BUCK_T1	1	1	0	0.2	0.2	0	-1.76	-1.76	2	2	0	1200	1200	0
3/2/2025 15:41	60801	BUCK_T1	1	1	0	0.2	0.2	0	-0.88	-0.9	1	1	0	600	600	0
3/2/2025 15:43	57006	WHHI_T2	1	1	0	0.3	0.3	0	1.62	1.6	0	0	0	0	0	0
3/2/2025 15:43	57002	WHHI_T2	6	7	1	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
3/2/2025 15:43	57001	WHHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/2/2025 15:45	57006	WHHI_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/2/2025 15:45	57002	WHHI_T2	7	3	-4	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/2/2025 15:45	57001	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/2/2025 15:46	57001	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/2/2025 15:46	57002	WHHI_T2	7	3	-4	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/2/2025 15:46	57006	WHHI_T2	1	1	0	0.3	0.3	0	1.62	1.6	0	0	0	0	0	0
3/2/2025 15:48	58202	NEWV_T1	1	5	4	0.2	0.32	0.12	0	0	0	0	0	0	0	0
3/2/2025 15:48	58201	NEWV_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/2/2025 15:50	64902	MILL_T2	0	0	0	0	0	0	-1.37	-1.37	0	0	0	0	0	0
3/2/2025 15:51	58201	NEWV_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/2/2025 15:51	58202	NEWV_T1	1	5	4	0.2	0.32	0.12	-0.21	-0.21	0	0	0	0	0	0
3/2/2025 15:51	40501	CRES_T2	5	9	4	0.18	0.29	0.11	0	0	0	0	0	0	0	0
3/2/2025 15:51	40502	CRES_T2	6	2	-4	0.13	0.1	-0.03	0.06	0.06	0	0	0	0	0	0
3/2/2025 16:17	26401	INOR_T1	91	92	1	0.87	0.83	-0.04	0.65	0.77	0	0	0	0	0	0
3/2/2025 16:22	58302	NOTT_T1	0	0	0	0	0	0	-0.88	-0.85	0	0	0	0	0	0
3/2/2025 16:43	49804	UNIV_T1	0	0	0	0	0	0	0.45	0.44	0	0	0	0	0	0
3/2/2025 16:43	49803	UNIV_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
3/2/2025 16:44	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 16:48	40504	CRES_T1	0	0	0	0	0	0	-2.02	-1.99	0	0	0	0	0	0
3/2/2025 17:05	51401	LYKE_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
3/2/2025 17:08	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 17:09	46204	DANV_T2	2	6	4	0.4	0.18	-0.22	0	0	0	0	0	0	0	0
3/2/2025 17:09	46203	DANV_T2	6	8	2	0.28	0.19	-0.09	0	0	0	0	0	0	0	0
3/2/2025 17:09	46206	DANV_T2	16	21	5	0.71	0.75	0.04	1.43	1.38	0	0	0	0	0	0
3/2/2025 17:10	14601	SWHI_T1	0	0	0	0	0	0	-2.76	-2.72	0	0	0	0	0	0
3/2/2025 17:12	46203	DANV_T2	6	8	2	0.28	0.19	-0.09	0	0	0	0	0	0	0	0
3/2/2025 17:12	46206	DANV_T2	16	21	5	0.71	0.75	0.04	1.43	1.38	0	0	0	0	0	0
3/2/2025 17:12	46204	DANV_T2	2	6	4	0.4	0.18	-0.22	0	0	0	0	0	0	0	0
3/2/2025 19:11	52004	LING_T2	3	2	-1	2.7	3.8	1.1	0	0	0	0	0	0	0	0
3/2/2025 19:11	52002	LING_T2	1	2	1	0.1	0.1	0	-0.06	-0.05	0	0	0	0	0	0
3/2/2025 19:13	66503	SMAN_T2	0	0	0	0	0	0	0.35	0.33	0	0	0	0	0	0
3/2/2025 19:13	66505	SMAN_T2	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
3/2/2025 19:14	44905	SCOT_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 19:14	10705	CATA_T2	0	0	0	0	0	0	-2.04	-2.04	1	1	0	900	900	0
3/2/2025 19:14	10701	CATA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 19:14	44904	SCOT_T1	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
3/2/2025 19:24	23001	SAJO_T1	0	0	0	0	0	0	-1.36	-1.37	0	0	0	0	0	0
3/2/2025 19:24	51306	WIND_T2	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
3/2/2025 19:24	23003	SAJO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/2/2025 19:25	66203	SISP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 19:25	66201	SISP_T2	1	2	1	7.8	5.3	-2.5	-0.33	-0.32	0	0	0	0	0	0
3/2/2025 19:26	20401	ASHF_T2	4	5	1	0.4	0.63	0.23	0	0	0	0	0	0	0	0
3/2/2025 19:26	65901	SAKR_T2	1	1	0	8.5	8.1	-0.4	0	0	0	0	0	0	0	0
3/2/2025 19:26	65904	SAKR_T2	0	0	0	0	0	0	-2.05	-2.11	3	3	0	1500	1500	0
3/2/2025 19:26	20403	ASHF_T2	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
3/2/2025 19:26	20402	ASHF_T2	62	72	10	0.34	0.61	0.27	0	0	0	0	0	0	0	0
3/2/2025 19:27	57702	PAKT_T1	0	0	0	0	0	0	-0.71	-0.63	0	0	0	0	0	0
3/2/2025 19:28	50202	HARR_T3	3	3	0	0.43	0.53	0.1	0	0	0	0	0	0	0	0
3/2/2025 19:28	50201	HARR_T3	2	2	0	2.7	3.05	0.35	0	0	0	0	0	0	0	0
3/2/2025 19:28	50102	HARR_T3	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/2/2025 19:28	50103	HARR_T3	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
3/2/2025 19:28	50106	HARR_T3	7	8	1	0.14	0	-0.14	0	0	0	0	0	0	0	0
3/2/2025 19:28	50105	HARR_T3	31	30	-1	4.14	3.72	-0.42	0	0	0	0	0	0	0	0
3/2/2025 19:28	60502	NMAN_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
3/2/2025 19:30	24703	FLND_T2	0	5	5	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 19:30	24702	FLND_T2	12	14	2	0.35	1.04	0.69	-0.88	-0.86	1	1	0	1200	1200	0
3/2/2025 19:30	24701	FLND_T2	20	51	31	0.54	0.35	-0.19	0	0	0	0	0	0	0	0
3/2/2025 19:32	15402	WALL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 19:32	62105	ELAN_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
3/2/2025 19:32	15405	WALL_T1	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
3/2/2025 19:32	55002	NEWP_T1	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
3/2/2025 19:32	55001	NEWP_T1	1	0	-1	0.6	0	-0.6	-2.71	-2.67	3	3	0	1800	1800	0
3/2/2025 19:32	64503	LAVI_T1	0	0	0	0	0	0	-0.86	-0.91	1	1	0	1200	1200	0
3/2/2025 19:33	52002	LING_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/2/2025 19:33	60201	ATGL_T2	0	0	0	0	0	0	-0.32	-0.36	0	0	0	0	0	0
3/2/2025 19:33	52004	LING_T2	2	3	1	3.7	3.8	0.1	0.1	0.09	0	0	0	0	0	0
3/2/2025 19:34	56501	ROCK_T2	1	1	0	0.9	0.7	-0.2	-1.61	-1.61	0	0	0	0	0	0
3/2/2025 19:35	51505	SWAT_T2	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
3/2/2025 19:35	43101	SMIL_T2	1	2	1	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/2/2025 19:35	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	-0.71	-0.69	1	1	0	600	600	0
3/2/2025 19:38	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 19:40	58706	ROSE_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/2/2025 19:40	13701	SCHN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 19:40	58701	ROSE_T2	0	0	0	0	0	0	-0.23	-0.24	1	1	0	600	600	0
3/2/2025 19:40	58705	ROSE_T2	1	1	0	1.4	3	1.6	0	0	0	0	0	0	0	0
3/2/2025 19:40	13704	SCHN_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/2/2025 19:41	51306	WIND_T2	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
3/2/2025 19:41	61001	DONV_T1	0	0	0	0	0	0	-0.01	0.03	0	0	0	0	0	0
3/2/2025 19:42	23502	GEOR_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
3/2/2025 19:43	57505	LAWN_T3	1	14	13	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/2/2025 19:43	57501	LAWN_T3	0	0	0	0	0	0	-1.94	-1.99	0	0	0	0	0	0
3/2/2025 19:44	14403	SSLA_T1	6	8	2	0.42	0.71	0.29	0.97	0.97	0	0	0	0	0	0
3/2/2025 19:44	52001	LING_T1	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
3/2/2025 19:44	14402	SSLA_T1	0	2	2	0	1	1	0	0	0	0	0	0	0	0
3/2/2025 19:46	57505	LAWN_T3	14	15	1	0.31	0.2	-0.11	0.74	0.74	0	0	0	0	0	0
3/2/2025 19:46	64605	LEOL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 19:48	57505	LAWN_T3	14	15	1	0.31	0.2	-0.11	0.74	0.74	0	0	0	0	0	0
3/2/2025 19:48	67601	WARW_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
3/2/2025 19:50	11103	EGYP_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
3/2/2025 19:50	11102	EGYP_T1	0	0	0	0	0	0	0.59	0.65	0	0	0	0	0	0
3/2/2025 19:52	16902	MECK_T1	13	17	4	0.29	0.37	0.08	-1	-0.99	0	0	0	0	0	0
3/2/2025 19:52	16505	STRO_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 19:56	24001	WIBA_T1	4	21	17	0.38	0.22	-0.16	0	0	0	0	0	0	0	0
3/2/2025 19:56	24003	WIBA_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
3/2/2025 19:56	14501	SCHO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 19:56	14502	SCHO_T1	1	1	0	3.3	3.1	-0.2	0	0	0	0	0	0	0	0
3/2/2025 19:57	65901	SAKR_T2	1	1	0	8	8.4	0.4	0	0	0	0	0	0	0	0
3/2/2025 19:57	66201	SISP_T2	2	2	0	3.2	0	-3.2	0	0	0	0	0	0	0	0
3/2/2025 19:57	65903	SAKR_T2	0	0	0	0	0	0	-1.31	-1.38	3	3	0	2100	2100	0
3/2/2025 19:57	63602	LETO_T1	0	0	0	0	0	0	-0.41	-0.27	0	0	0	0	0	0
3/2/2025 19:57	66203	SISP_T2	1	0	-1	0.7	0	-0.7	-0.69	-0.63	1	1	0	600	600	0
3/2/2025 19:58	14601	SWHI_T1	0	0	0	0	0	0	-1.32	-1.32	0	0	0	0	0	0
3/2/2025 19:58	43105	SMIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 19:58	15203	SFAR_T2	0	0	0	0	0	0	-1.21	-1.2	0	0	0	0	0	0
3/2/2025 19:58	26401	INOR_T1	106	108	2	1.59	1.4	-0.19	0.78	0.81	0	0	0	0	0	0
3/2/2025 19:58	43101	SMIL_T2	1	3	2	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/2/2025 19:58	26402	INOR_T1	6	7	1	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
3/2/2025 19:58	63501	HEID_TBK1-2	4	26	22	0.13	0.19	0.06	-0.56	-0.58	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/2/2025 19:59	22402	MORG_T2	17	17	0	1.09	1.35	0.26	0	0	0	0	0	0	0	0
3/2/2025 20:00	14308	SUMN_T1	42	65	23	2.16	1.88	-0.28	0	0	0	0	0	0	0	0
3/2/2025 20:00	44203	POIN_T2	0	0	0	0	0	0	-0.13	-0.17	1	1	0	900	900	0
3/2/2025 20:00	14307	SUMN_T1	2	2	0	0.15	0.25	0.1	-0.63	-0.68	1	1	0	900	900	0
3/2/2025 20:00	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:00	14305	SUMN_T1	1	14	13	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
3/2/2025 20:00	14303	SUMN_T1	14	12	-2	2.39	3.75	1.36	0	0	0	0	0	0	0	0
3/2/2025 20:00	14306	SUMN_T1	55	56	1	0.7	0.56	-0.14	0	0	0	0	0	0	0	0
3/2/2025 20:00	14302	SUMN_T1	20	24	4	0.64	0.65	0.01	0	0	0	0	0	0	0	0
3/2/2025 20:00	14301	SUMN_T1	14	15	1	0.72	0.75	0.03	0	0	0	0	0	0	0	0
3/2/2025 20:02	40505	CRES_T1	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
3/2/2025 20:02	66402	ROBE_T1	0	0	0	0	0	0	-2.16	-2.19	2	2	0	1500	1500	0
3/2/2025 20:02	64101	REFR_T1	0	0	0	0	0	0	0.07	0.02	0	0	0	0	0	0
3/2/2025 20:02	57006	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:03	61002	DONV_T2	0	0	0	0	0	0	-0.86	-0.89	1	1	0	600	600	0
3/2/2025 20:03	57001	WHHI_T2	0	0	0	0	0	0	-1.68	-1.71	1	1	0	900	900	0
3/2/2025 20:03	60101	COCA_T1	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
3/2/2025 20:03	66701	STRA_T1	5	5	0	1.44	1.16	-0.28	0	0	0	0	0	0	0	0
3/2/2025 20:03	61202	REIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:03	66702	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:03	57006	WHHI_T2	0	0	0	0	0	0	1.6	1.59	1	1	0	600	600	0
3/2/2025 20:03	40505	CRES_T1	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
3/2/2025 20:03	16504	STRO_T1	0	0	0	0	0	0	-0.62	-0.62	1	1	0	1200	1200	0
3/2/2025 20:03	16505	STRO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:04	13704	SCHN_T2	1	0	-1	0.2	0	-0.2	-0.74	-0.74	0	0	0	0	0	0
3/2/2025 20:04	65302	NBRI_T2	0	0	0	0	0	0	-1.65	-1.65	1	1	0	600	600	0
3/2/2025 20:04	65601	QVIL_T2	0	0	0	0	0	0	-1.08	-1.02	1	1	0	900	900	0
3/2/2025 20:04	63305	GREE_T1	0	2	2	0	0.1	0.1	-2.67	-2.67	1	1	0	900	900	0
3/2/2025 20:04	62102	ELAN_T1	0	0	0	0	0	0	0.85	0.85	0	0	0	0	0	0
3/2/2025 20:04	64305	LINC_T1	0	0	0	0	0	0	-0.71	-0.47	0	0	0	0	0	0
3/2/2025 20:04	41902	REED_T1	2	3	1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
3/2/2025 20:04	61102	BERK_T5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:04	41901	REED_T1	2	1	-1	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
3/2/2025 20:04	64704	LITI_T1	0	0	0	0	0	0	-0.14	-0.14	1	1	0	600	600	0
3/2/2025 20:04	54506	ENOL_T2	0	0	0	0	0	0	-1.46	-1.48	0	0	0	0	0	0
3/2/2025 20:04	15204	SFAR_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
3/2/2025 20:04	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:05	51603	DUKE_T1	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
3/2/2025 20:05	45001	LIME_2	4	4	0	0.23	1.07	0.84	0	0	0	0	0	0	0	0
3/2/2025 20:05	47101	MARL_T1	37	24	-13	0.93	0.12	-0.81	-1.3	-1.42	1	1	0	600	600	0
3/2/2025 20:05	45002	LIME_2	1	1	0	3.5	5	1.5	0	0	0	0	0	0	0	0
3/2/2025 20:05	45003	LIME_2	15	37	22	0.62	0.56	-0.06	0.44	0.44	0	0	0	0	0	0
3/2/2025 20:05	64301	LINC_T1	0	0	0	0	0	0	-0.44	-0.41	1	1	0	600	600	0
3/2/2025 20:06	45701	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:06	12505	MITR_T2	0	0	0	0	0	0	0.43	0.37	0	0	0	0	0	0
3/2/2025 20:06	13807	SALI_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
3/2/2025 20:06	27301	PARR_T1	4	13	9	0.93	1.09	0.16	0	0	0	0	0	0	0	0
3/2/2025 20:06	53902	HALI_T2	1	2	1	4.6	4.5	-0.1	-0.87	-0.89	0	0	0	0	0	0
3/2/2025 20:06	13903	SEID_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
3/2/2025 20:06	13902	SEID_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
3/2/2025 20:06	13904	SEID_T1	69	61	-8	1.08	0.93	-0.15	0	0	0	0	0	0	0	0
3/2/2025 20:06	45801	HEGI_T1	0	0	0	0	0	0	-1.06	-1.06	1	1	0	900	900	0
3/2/2025 20:06	12501	MITR_T2	1	1	0	8.6	8.3	-0.3	0	0	0	0	0	0	0	0
3/2/2025 20:06	12502	MITR_T2	1	1	0	5.9	5.9	0	0	0	0	0	0	0	0	0
3/2/2025 20:06	42501	ALTA_T2	11	0	-11	0.47	0	-0.47	0	0	0	0	0	0	0	0
3/2/2025 20:06	53903	HALI_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/2/2025 20:06	42503	ALTA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:06	53901	HALI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:06	27302	PARR_T1	1	1	0	0.2	0.5	0.3	0.01	0.01	0	0	0	0	0	0
3/2/2025 20:06	57006	WHHI_T2	0	0	0	0	0	0	1.6	1.59	1	1	0	600	600	0
3/2/2025 20:07	66505	SMAN_T2	0	0	0	0	0	0	-0.52	-0.55	1	1	0	900	900	0
3/2/2025 20:07	64902	MILL_T2	0	0	0	0	0	0	-1.27	-1.27	1	1	0	900	900	0
3/2/2025 20:07	40603	PIGR_T1	3	1	-2	1.03	0.3	-0.73	0	0	0	0	0	0	0	0
3/2/2025 20:07	26001	WDAM_T1	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
3/2/2025 20:07	64201	KINZ_T1	0	0	0	0	0	0	-1.37	-1.35	4	4	0	2100	2100	0
3/2/2025 20:07	60102	COCA_T1	0	0	0	0	0	0	-0.58	-0.46	1	1	0	600	600	0
3/2/2025 20:07	66702	STRA_T1	0	0	0	0	0	0	-0.25	-0.12	2	2	0	1500	1500	0
3/2/2025 20:07	47101	MARL_T1	37	24	-13	0.93	0.12	-0.81	-1.42	-1.39	1	1	0	600	600	0
3/2/2025 20:07	65901	SAKR_T2	1	1	0	8.4	8.3	-0.1	-1.29	-1.29	1	1	0	900	900	0
3/2/2025 20:07	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/2/2025 20:07	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:07	44801	EDAN_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
3/2/2025 20:07	40601	PIGR_T1	0	0	0	0	0	0	-0.75	-0.82	0	0	0	0	0	0
3/2/2025 20:07	66701	STRA_T1	5	5	0	1.44	1.16	-0.28	0	0	0	0	0	0	0	0
3/2/2025 20:08	12006	HATF_T1	2	2	0	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
3/2/2025 20:08	62607	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/2/2025 20:08	22903	HARW_T1	10	13	3	1.39	1.5	0.11	-1.13	-1.14	0	0	0	0	0	0
3/2/2025 20:08	13806	SALI_T1	0	0	0	0	0	0	-0.01	-0.03	1	1	0	1200	1200	0
3/2/2025 20:08	64101	REFR_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
3/2/2025 20:08	62606	ENGL_T1	0	0	0	0	0	0	-1.95	-1.93	2	2	0	1500	1500	0
3/2/2025 20:08	12007	HATF_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:08	63501	HEID_TBK1-2	19	27	8	0.16	0.19	0.03	-0.58	-0.55	1	1	0	900	900	0
3/2/2025 20:08	40504	CRES_T1	0	0	0	0	0	0	-1.93	-1.97	0	0	0	0	0	0
3/2/2025 20:08	51603	DUKE_T1	0	0	0	0	0	0	-0.05	-0.02	0	0	0	0	0	0
3/2/2025 20:08	66702	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:08	66701	STRA_T1	5	5	0	1.44	1.16	-0.28	0	0	0	0	0	0	0	0
3/2/2025 20:08	62604	ENGL_T1	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/2/2025 20:08	42601	TUSC_T1	8	1	-7	0.4	0	-0.4	-1.22	-1.3	2	2	0	1800	1800	0
3/2/2025 20:08	22904	HARW_T1	29	30	1	0.72	0.63	-0.09	0	0	0	0	0	0	0	0
3/2/2025 20:08	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1800	1800	0
3/2/2025 20:08	14601	SWHI_T1	0	0	0	0	0	0	-1.32	-1.31	0	0	0	0	0	0
3/2/2025 20:08	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:08	22905	HARW_T1	165	193	28	1.15	1.14	-0.01	0	0	0	0	0	0	0	0
3/2/2025 20:08	22901	HARW_T1	28	55	27	0.91	0.71	-0.2	0	0	0	0	0	0	0	0
3/2/2025 20:08	64503	LAVI_T1	0	0	0	0	0	0	-0.9	-0.97	1	1	0	1200	1200	0
3/2/2025 20:08	12602	MACA_T1	7	8	1	0.14	0.2	0.06	0	0	0	0	0	0	0	0
3/2/2025 20:08	12606	MACA_T1	0	0	0	0	0	0	-0.13	-0.13	1	1	0	900	900	0
3/2/2025 20:09	67202	TEHI_T2	0	0	0	0	0	0	-0.84	-0.8	1	1	0	900	900	0
3/2/2025 20:09	57106	SPHI_T2	3	3	0	0.63	0.8	0.17	0	0	0	0	0	0	0	0
3/2/2025 20:09	53803	MBRG_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/2/2025 20:09	51906	COPA_T1	2	2	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
3/2/2025 20:09	51702	OBER_T1	2	2	0	1.95	2	0.05	-0.9	-0.93	1	1	0	600	600	0
3/2/2025 20:09	57104	SPHI_T2	1	1	0	10	0.8	-9.2	-1.72	-1.7	1	1	0	900	900	0
3/2/2025 20:09	56801	BENV_T1	7	7	0	0.87	1.08	0.21	-1.11	-1.12	2	2	0	1200	1200	0
3/2/2025 20:09	46301	ROHR_T1	3	6	3	1.43	1.57	0.14	0.26	0.26	0	0	0	0	0	0
3/2/2025 20:09	40501	CRES_T2	7	14	7	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
3/2/2025 20:09	56803	BENV_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/2/2025 20:09	51902	COPA_T1	0	0	0	0	0	0	-0.77	-0.78	1	1	0	1200	1200	0
3/2/2025 20:09	51905	COPA_T1	1	2	1	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
3/2/2025 20:09	51903	COPA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:09	51904	COPA_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/2/2025 20:09	45302	WBER_T2	13	37	24	0.42	0.46	0.04	0	0	0	0	0	0	0	0
3/2/2025 20:09	45301	WBER_T2	0	0	0	0	0	0	-0.9	-0.87	1	1	0	1200	1200	0
3/2/2025 20:09	46302	ROHR_T1	0	4	4	0	0.95	0.95	0	0	0	0	0	0	0	0
3/2/2025 20:10	60801	BUCK_T1	0	0	0	0	0	0	-1.72	-1.78	2	2	0	1200	1200	0
3/2/2025 20:10	63804	HEMP_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
3/2/2025 20:10	47101	MARL_T1	37	24	-13	0.93	0.12	-0.81	-1.42	-1.39	1	1	0	600	600	0
3/2/2025 20:10	14201	EALL_T1	0	0	0	0	0	0	0.63	0.6	0	0	0	0	0	0
3/2/2025 20:10	46902	MNTG_T2	0	0	0	0	0	0	-0.55	-0.55	1	1	0	600	600	0
3/2/2025 20:10	67602	WARW_T2	0	0	0	0	0	0	1	1.03	1	1	0	300	300	0
3/2/2025 20:10	45801	HEGI_T1	0	0	0	0	0	0	-1.06	-1.06	1	1	0	900	900	0
3/2/2025 20:10	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:10	63803	HEMP_T1	1	0	-1	8.4	0	-8.4	0	0	0	0	0	0	0	0
3/2/2025 20:10	53803	MBRG_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/2/2025 20:10	40501	CRES_T2	7	14	7	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
3/2/2025 20:10	10801	CHHI_T1	2	8	6	0.6	0.2	-0.4	-1.94	-1.98	3	3	0	2100	2100	0
3/2/2025 20:10	63801	HEMP_T1	0	0	0	0	0	0	-0.32	-0.35	0	0	0	0	0	0
3/2/2025 20:11	43304	WATS_T2	4	4	0	0.83	0.4	-0.43	0	0	0	0	0	0	0	0
3/2/2025 20:11	42503	ALTA_T2	0	0	0	0	0	0	-0.56	-0.58	0	0	0	0	0	0
3/2/2025 20:11	43302	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:11	54203	PENN_T1	16	18	2	0.17	0.21	0.04	0	0	0	0	0	0	0	0
3/2/2025 20:11	53501	EVIL_T2	1	0	-1	0.2	0	-0.2	-0.49	-0.45	0	0	0	0	0	0
3/2/2025 20:11	54201	PENN_T1	3	5	2	1.27	0.92	-0.35	-1.4	-1.37	0	0	0	0	0	0
3/2/2025 20:11	44802	EDAN_T2	0	0	0	0	0	0	-3.45	-3.5	1	1	0	1200	1200	0
3/2/2025 20:11	42501	ALTA_T2	11	0	-11	0.47	0	-0.47	0	0	0	0	0	0	0	0
3/2/2025 20:11	60504	NMAN_T2	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
3/2/2025 20:11	53502	EVIL_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:12	12801	MICK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:12	14402	SSLA_T1	2	1	-1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
3/2/2025 20:12	14403	SSLA_T1	7	7	0	0.86	0.18	-0.68	0	0	0	0	0	0	0	0
3/2/2025 20:12	64101	REFR_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
3/2/2025 20:12	23001	SAJO_T1	0	0	0	0	0	0	-1.39	-1.39	0	0	0	0	0	0
3/2/2025 20:12	52503	PROG_T2	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
3/2/2025 20:12	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:12	23003	SAJO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:12	44801	EDAN_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
3/2/2025 20:12	53501	EVIL_T2	1	0	-1	0.2	0	-0.2	-0.49	-0.45	0	0	0	0	0	0
3/2/2025 20:12	53502	EVIL_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:12	12803	MICK_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
3/2/2025 20:12	14601	SWHI_T1	0	0	0	0	0	0	-1.32	-1.31	0	0	0	0	0	0
3/2/2025 20:12	44203	POIN_T2	0	0	0	0	0	0	-0.17	-0.17	1	1	0	900	900	0
3/2/2025 20:12	14401	SSLA_T1	0	0	0	0	0	0	-1.09	-1.11	1	1	0	600	600	0
3/2/2025 20:13	43101	SMIL_T2	2	3	1	0.85	0.25	-0.6	0	0	0	0	0	0	0	0
3/2/2025 20:13	63602	LETO_T1	0	0	0	0	0	0	-0.27	-0.43	0	0	0	0	0	0
3/2/2025 20:13	54506	ENOL_T2	0	0	0	0	0	0	-1.48	-1.46	0	1	1	0	600	600
3/2/2025 20:13	46206	DANV_T2	10	11	1	0.83	0.72	-0.11	1.45	1.51	2	2	0	2100	2100	0
3/2/2025 20:13	43103	SMIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:13	60803	BUCK_T1	0	0	0	0	0	0	-1.15	-1.17	1	1	0	600	600	0
3/2/2025 20:13	62102	ELAN_T1	0	0	0	0	0	0	0.85	0.75	0	0	0	0	0	0
3/2/2025 20:13	66201	SISP_T2	2	0	-2	3.15	0	-3.15	0	0	0	0	0	0	0	0
3/2/2025 20:13	46204	DANV_T2	75	42	-33	0.43	0.44	0.01	0	0	0	0	0	0	0	0
3/2/2025 20:13	47101	MARL_T1	37	24	-13	0.93	0.12	-0.81	-1.42	-1.39	1	1	0	600	600	0
3/2/2025 20:13	43104	SMIL_T2	0	0	0	0	0	0	-0.66	-0.64	1	1	0	300	300	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/2/2025 20:13	54001	SDLE_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/2/2025 20:13	43102	SMIL_T2	0	0	0	0	0	0	-0.66	-0.65	1	1	0	600	600	0
3/2/2025 20:13	58302	NOTT_T1	0	0	0	0	0	0	-0.85	-0.84	1	1	0	900	900	0
3/2/2025 20:13	67901	WNHO_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
3/2/2025 20:13	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:13	46203	DANV_T2	9	13	4	0.5	0.36	-0.14	0	0	0	0	0	0	0	0
3/2/2025 20:13	66505	SMAN_T2	0	0	0	0	0	0	-0.52	-0.55	1	1	0	900	900	0
3/2/2025 20:13	26101	THRO_T1	0	0	0	0	0	0	-2.08	-2.22	0	0	0	0	0	0
3/2/2025 20:14	14702	TREX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:14	42802	SELI_T1	0	0	0	0	0	0	-1.51	-1.5	1	1	0	900	900	0
3/2/2025 20:14	67402	WAKE_T2	0	0	0	0	0	0	-0.31	-0.31	1	1	0	600	600	0
3/2/2025 20:14	60104	COCA_T2	4	4	0	0.18	0.3	0.12	0	0	0	0	0	0	0	0
3/2/2025 20:14	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:14	66302	MCGO_T2	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
3/2/2025 20:14	53802	MBRG_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
3/2/2025 20:14	44301	BEAV_T2	0	2	2	0	0.2	0.2	-0.71	-0.77	1	1	0	600	600	0
3/2/2025 20:14	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:14	63501	HEID_TBK1-2	19	27	8	0.16	0.19	0.03	-0.58	-0.55	1	1	0	900	900	0
3/2/2025 20:14	60801	BUCK_T1	0	0	0	0	0	0	-0.86	-0.89	1	1	0	600	600	0
3/2/2025 20:14	51202	MTON_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:15	62605	ENGL_T1	0	0	0	0	0	0	-1.42	-1.43	0	0	0	0	0	0
3/2/2025 20:15	47203	FAXO_T2	1	1	0	0.1	0.1	0	-1.71	-1.69	1	1	0	1200	1200	0
3/2/2025 20:15	46203	DANV_T2	13	14	1	0.93	0.35	-0.58	0	0	0	0	0	0	0	0
3/2/2025 20:15	67804	WLAN_T1	3	7	4	0.27	0.18	-0.09	0	0	0	0	0	0	0	0
3/2/2025 20:15	46206	DANV_T2	9	11	2	0.72	0.52	-0.2	1.45	1.51	2	2	0	2100	2100	0
3/2/2025 20:15	46204	DANV_T2	8	42	34	0.44	0.36	-0.08	0	0	0	0	0	0	0	0
3/2/2025 20:15	62604	ENGL_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
3/2/2025 20:15	56802	BENV_T2	0	0	0	0	0	0	-0.8	-0.86	0	0	0	0	0	0
3/2/2025 20:15	65603	QVIL_T2	0	0	0	0	0	0	-0.89	-0.9	0	0	0	0	0	0
3/2/2025 20:15	67805	WLAN_T1	9	13	4	0.78	0.7	-0.08	-1.63	-1.63	0	0	0	0	0	0
3/2/2025 20:15	52102	MEIS_T1	1	1	0	0.1	0	-0.1	0	0	1	1	0	450	450	0
3/2/2025 20:16	44201	POIN_T1	0	0	0	0	0	0	-1.72	-1.7	1	1	0	1200	1200	0
3/2/2025 20:16	51604	DUKE_T2	0	0	0	0	0	0	-2.83	-2.82	1	1	0	900	900	0
3/2/2025 20:16	51903	COPA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/2/2025 20:16	57304	MOAL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:16	57306	MOAL_T2	0	0	0	0	0	0	-2.95	-2.91	1	1	0	1200	1200	0
3/2/2025 20:16	55001	NEWP_T1	1	1	0	0.8	0	-0.8	-0.91	-0.91	1	1	0	600	600	0
3/2/2025 20:16	57303	MOAL_T2	1	1	0	8.7	8.8	0.1	0	0	0	0	0	0	0	0
3/2/2025 20:16	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
3/2/2025 20:16	51702	OBER_T1	2	2	0	1.95	2	0.05	-0.9	-0.93	1	1	0	600	600	0
3/2/2025 20:16	55002	NEWP_T1	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
3/2/2025 20:16	51906	COPA_T1	2	0	-2	0.8	0	-0.8	0	0	0	0	0	0	0	0
3/2/2025 20:16	51904	COPA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/2/2025 20:16	58201	NEWV_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/2/2025 20:16	51905	COPA_T1	2	1	-1	0.45	0	-0.45	-0.69	-0.69	0	0	0	0	0	0
3/2/2025 20:17	58203	NEWV_T2	7	2	-5	0.99	4.2	3.21	-0.33	-0.36	0	0	0	0	0	0
3/2/2025 20:17	57205	ROSS_T1	0	0	0	0	0	0	-0.79	-0.81	1	1	0	900	900	0
3/2/2025 20:17	57505	LAWN_T3	15	16	1	0.76	0.39	-0.37	0.74	0.74	0	0	0	0	0	0
3/2/2025 20:17	51905	COPA_T1	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
3/2/2025 20:17	51902	COPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:17	51906	COPA_T1	2	0	-2	0.8	0	-0.8	0	0	0	0	0	0	0	0
3/2/2025 20:17	51904	COPA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/2/2025 20:17	51903	COPA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/2/2025 20:17	56603	HAMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:18	42902	MIDD_T2	2	8	6	0.85	0.1	-0.75	-1.24	-1.26	1	1	0	600	600	0
3/2/2025 20:18	49804	UNIV_T1	0	0	0	0	0	0	0.57	0.66	0	0	0	0	0	0
3/2/2025 20:18	49803	UNIV_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
3/2/2025 20:18	42903	MIDD_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
3/2/2025 20:18	60101	COCA_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
3/2/2025 20:19	58202	NEWV_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
3/2/2025 20:19	58201	NEWV_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/2/2025 20:20	58202	NEWV_T1	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
3/2/2025 20:20	58201	NEWV_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/2/2025 20:22	42802	SELI_T1	0	0	0	0	0	0	-1.5	-1.5	1	1	0	900	900	0
3/2/2025 20:23	65001	NEFF_T2	0	0	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
3/2/2025 20:44	57303	MOAL_T2	1	1	0	9	8.8	-0.2	0	0	0	0	0	0	0	0
3/2/2025 20:44	57304	MOAL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/2/2025 20:44	57302	MOAL_T2	0	0	0	0	0	0	-1.49	-1.48	1	1	0	1200	1200	0
3/2/2025 20:45	51703	OBER_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 20:45	51701	OBER_T2	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
3/2/2025 21:02	51003	NHAR_T1	1	1	0	7.7	7.6	-0.1	0	0	0	0	0	0	0	0
3/2/2025 21:02	51002	NHAR_T1	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
3/2/2025 21:02	51004	NHAR_T1	2	3	1	6.4	6.2	-0.2	0	0	0	0	0	0	0	0
3/2/2025 21:04	12701	MACU_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/2/2025 21:04	12704	MACU_T1	0	0	0	0	0	0	-1.45	-1.45	1	1	0	600	600	0
3/2/2025 21:08	50201	HARR_T3	2	2	0	3.5	3.8	0.3	0	0	0	0	0	0	0	0
3/2/2025 21:08	50202	HARR_T3	7	14	7	0.21	0	-0.21	-1.45	-1.47	0	0	0	0	0	0
3/2/2025 21:08	50105	HARR_T3	21	21	0	4.42	3.95	-0.47	0	0	0	0	0	0	0	0
3/2/2025 21:08	50103	HARR_T3	0	8	8	0	0	0	0	0	0	0	0	0	0	0
3/2/2025 21:39	52503	PROG_T2	0	0	0	0	0	0	0.47	0.45	0	0	0	0	0	0
3/3/2025 0:04	55101	WERT_T1	0	0	0	0	0	0	-1.41	-1.4	2	2	0	1500	1500	0
3/3/2025 7:07	65601	QVIL_T2	1	2	1	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/3/2025 7:07	65603	QVIL_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
3/3/2025 7:18	41902	REED_T1	41	18	-23	0.5	0.46	-0.04	0.4	0.35	0	0	0	0	0	0
3/3/2025 7:18	42903	MIDD_T2	2	1	-1	0.15	0	-0.15	0.5	0.37	1	1	0	1200	1200	0
3/3/2025 7:18	13601	RICH_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
3/3/2025 7:18	13606	RICH_T2	11	15	4	0.91	0.62	-0.29	0.75	1.07	0	0	0	0	0	0
3/3/2025 7:18	42902	MIDD_T2	5	1	-4	0.72	0	-0.72	0	0	0	0	0	0	0	0
3/3/2025 7:20	13601	RICH_T2	2	1	-1	0.25	0	-0.25	0	0	0	0	0	0	0	0
3/3/2025 7:20	13606	RICH_T2	11	15	4	0.91	0.62	-0.29	0	0	0	0	0	0	0	0
3/3/2025 7:20	41902	REED_T1	41	18	-23	0.5	0.46	-0.04	0.4	0.35	0	0	0	0	0	0
3/3/2025 7:22	41902	REED_T1	41	18	-23	0.5	0.46	-0.04	0.35	0.32	0	0	0	0	0	0
3/3/2025 7:24	45501	DERR_T2	11	8	-3	1.02	1.05	0.03	0	0	0	0	0	0	0	0
3/3/2025 7:24	45502	DERR_T2	33	23	-10	0.52	0.61	0.09	-0.48	-0.52	0	0	0	0	0	0
3/3/2025 7:26	60802	BUCK_T2	0	0	0	0	0	0	-0.4	-0.42	1	1	0	600	600	0
3/3/2025 7:27	53601	DALM_T2	2	1	-1	0.4	0.7	0.3	-0.49	-0.47	1	1	0	900	900	0
3/3/2025 7:30	63804	HEMP_T1	1	1	0	6.9	6.8	-0.1	0.88	0.89	0	0	0	0	0	0
3/3/2025 7:38	49803	UNIV_T1	1	1	0	6.1	5.5	-0.6	-0.95	-0.99	0	0	0	0	0	0
3/3/2025 7:38	44901	SCOT_T2	0	0	0	0	0	0	-0.21	-0.15	0	0	0	0	0	0
3/3/2025 7:39	46204	DANV_T2	93	2	-91	0.52	0	-0.52	0	0	0	0	0	0	0	0
3/3/2025 7:39	46206	DANV_T2	15	11	-4	1.03	0.7	-0.33	0	0	0	0	0	0	0	0
3/3/2025 7:39	46203	DANV_T2	50	82	32	0.69	0.6	-0.09	-1.63	-1.67	0	0	0	0	0	0
3/3/2025 7:41	46204	DANV_T2	93	2	-91	0.52	0	-0.52	0	0	0	0	0	0	0	0
3/3/2025 7:41	46206	DANV_T2	15	11	-4	1.03	0.7	-0.33	1.37	2.25	2	1	-1	2100	1200	-900
3/3/2025 7:41	45502	DERR_T2	23	12	-11	0.59	0.64	0.05	0	0	0	0	0	0	0	0
3/3/2025 7:41	46203	DANV_T2	50	82	32	0.69	0.6	-0.09	0	0	0	0	0	0	0	0
3/3/2025 7:41	45501	DERR_T2	8	4	-4	0.79	0.83	0.04	0.57	0.55	2	2	0	1800	1800	0
3/3/2025 7:42	46206	DANV_T2	15	11	-4	1.03	0.7	-0.33	1.37	2.25	2	1	-1	2100	1200	-900
3/3/2025 7:42	46203	DANV_T2	50	82	32	0.69	0.6	-0.09	-1.63	-1.67	0	0	0	0	0	0
3/3/2025 7:42	51802	EBEN_T2	0	0	0	0	0	0	-0.06	-0.08	1	1	0	900	900	0
3/3/2025 7:42	46204	DANV_T2	93	2	-91	0.52	0	-0.52	0	0	0	0	0	0	0	0
3/3/2025 7:50	52502	PROG_T2	0	0	0	0	0	0	-0.24	-0.25	1	1	0	900	900	0
3/3/2025 7:51	52502	PROG_T2	0	0	0	0	0	0	-0.24	-0.25	1	1	0	900	900	0
3/3/2025 7:52	25801	SUTR_T2	2	3	1	9.15	9.35	0.2	-0.53	-0.54	0	0	0	0	0	0
3/3/2025 7:52	24902	WHHA_T1	25	27	2	0.78	0.89	0.11	0.85	0.82	0	0	0	0	0	0
3/3/2025 7:52	24901	WHHA_T1	9	1	-8	0.59	0	-0.59	0	0	0	0	0	0	0	0
3/3/2025 7:52	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 7:53	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 7:56	45602	WOOL_T1	0	0	0	0	0	0	0.71	0.71	0	0	0	0	0	0
3/3/2025 7:56	45501	DERR_T2	4	3	-1	1.1	0.5	-0.6	0.55	0.52	2	2	0	1800	1800	0
3/3/2025 7:56	45502	DERR_T2	7	10	3	0.61	0.65	0.04	0	0	0	0	0	0	0	0
3/3/2025 7:57	44503	HAMI_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/3/2025 7:57	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 7:57	44502	HAMI_T2	2	2	0	2.2	2.2	0	0	0	0	0	0	0	0	0
3/3/2025 7:58	44502	HAMI_T2	2	2	0	2.2	2.2	0	0.05	0.05	0	0	0	0	0	0
3/3/2025 7:58	44503	HAMI_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/3/2025 7:59	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
3/3/2025 8:00	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/3/2025 8:00	52403	GRPA_T2	5	5	0	1	0.65	-0.35	-0.83	-0.83	0	0	0	0	0	0
3/3/2025 8:00	44502	HAMI_T2	2	1	-1	1.25	2.2	0.95	0	0	0	0	0	0	0	0
3/3/2025 8:00	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 8:00	52402	GRPA_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/3/2025 8:01	25402	LAHA_T2	9	17	8	0.86	1.12	0.26	-0.45	-0.41	0	0	0	0	0	0
3/3/2025 8:02	13303	ORVI_T1	0	0	0	0	0	0	0.96	0.98	0	0	0	0	0	0
3/3/2025 8:07	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 8:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 8:11	40501	CRES_T2	12	9	-3	0.24	0.28	0.04	0	0	0	0	0	0	0	0
3/3/2025 8:13	40501	CRES_T2	12	9	-3	0.24	0.28	0.04	0	0	0	0	0	0	0	0
3/3/2025 8:14	10705	CATA_T2	0	0	0	0	0	0	-2.15	-2.11	1	1	0	900	900	0
3/3/2025 8:16	23401	HONE_T2	3	4	1	0.23	0.2	-0.03	-0.03	0.07	0	0	0	0	0	0
3/3/2025 8:19	52502	PROG_T2	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
3/3/2025 8:26	61502	EPET_T1	0	1	1	0	0.3	0.3	-2.35	-2.31	0	0	0	0	0	0
3/3/2025 8:26	45502	DERR_T2	4	1	-3	0.65	0.7	0.05	0	0	0	0	0	0	0	0
3/3/2025 8:26	61506	EPET_T2	0	0	0	0	0	0	-1.89	-1.88	2	2	0	1800	1800	0
3/3/2025 8:26	45501	DERR_T2	2	1	-1	0.5	0	-0.5	0.39	0.41	2	2	0	1800	1800	0
3/3/2025 8:28	25402	LAHA_T2	14	10	-4	0.89	0.83	-0.06	-0.38	-0.34	0	0	0	0	0	0
3/3/2025 8:34	46301	ROHR_T1	1	1	0	4.2	4.5	0.3	0	0	0	0	0	0	0	0
3/3/2025 8:34	46302	ROHR_T1	1	2	1	0.1	0.8	0.7	0.25	0.24	0	0	0	0	0	0
3/3/2025 8:38	43802	SWIL_T1	0	0	0	0	0	0	-0.11	-0.13	1	1	0	600	600	0
3/3/2025 8:38	43801	SWIL_T1	2	8	6	2.45	0.7	-1.75	0	0	0	0	0	0	0	0
3/3/2025 8:40	10801	CHHI_T1	0	0	0	0	0	0	-1.93	-1.93	3	3	0	2100	2100	0
3/3/2025 8:43	52401	GRPA_T2	0	6	6	0	0.22	0.22	0	0	0	0	0	0	0	0
3/3/2025 8:43	40501	CRES_T2	5	12	7	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/3/2025 8:43	52403	GRPA_T2	5	9	4	0.76	0.4	-0.36	-0.89	-0.88	0	0	0	0	0	0
3/3/2025 8:43	52402	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/3/2025 8:46	52401	GRPA_T2	0	7	7	0	0.22	0.22	0	0	0	0	0	0	0	0
3/3/2025 8:46	52403	GRPA_T2	7	7	0	0.43	0.56	0.13	-0.89	-0.88	0	0	0	0	0	0
3/3/2025 8:46	58401	MORO_T1	0	0	0	0	0	0	-1.77	-1.8	2	2	0	1500	1500	0
3/3/2025 8:46	52402	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/3/2025 8:48	40602	PIGR_T1	1	5	4	0.1	0.18	0.08	-1.67	-1.67	1	1	0	600	600	0
3/3/2025 8:48	13302	ORVI_T2	20	23	3	0.25	0.26	0.01	0.23	0.23	0	0	0	0	0	0
3/3/2025 8:48	40601	PIGR_T1	3	4	1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
3/3/2025 8:48	40603	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/3/2025 8:50	40601	PIGR_T1	3	4	1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
3/3/2025 8:50	40602	PIGR_T1	1	5	4	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/3/2025 8:53	41902	REED_T1	0	2	2	0	0	0	0.31	0.33	0	0	0	0	0	0
3/3/2025 8:53	41901	REED_T1	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
3/3/2025 8:56	10705	CATA_T2	0	1	1	0	0.1	0.1	-2.18	-2.2	1	1	0	900	900	0
3/3/2025 8:56	10805	CHHI_T2	1	1	0	7.3	7.2	-0.1	-1.98	-1.87	2	2	0	1800	1800	0
3/3/2025 8:58	20602	GRWO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/3/2025 8:58	10705	CATA_T2	0	1	1	0	0.1	0.1	-8.72	-8.8	4	4	0	3600	3600	0
3/3/2025 8:58	20601	GRWO_T2	66	62	-4	0.58	0.55	-0.03	0.67	0.58	0	0	0	0	0	0
3/3/2025 9:00	46301	ROHR_T1	1	1	0	4.5	4	-0.5	0	0	0	0	0	0	0	0
3/3/2025 9:00	53903	HALI_T2	2	2	0	0.9	1.05	0.15	0	0	0	0	0	0	0	0
3/3/2025 9:00	52502	PROG_T2	0	0	0	0	0	0	1.86	1.61	0	0	0	0	0	0
3/3/2025 9:00	66505	SMAN_T2	1	0	-1	0.2	0	-0.2	-0.24	-0.24	2	1	-1	1100	900	-200
3/3/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
3/3/2025 9:00	64305	LINC_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 9:00	53902	HALI_T2	1	1	0	5.6	6	0.4	0	0	0	0	0	0	0	0
3/3/2025 9:00	53901	HALI_T2	1	3	2	0.6	0.33	-0.27	-1.34	-1.39	0	0	0	0	0	0
3/3/2025 9:00	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 9:00	60802	BUCK_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
3/3/2025 9:00	55101	WERT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
3/3/2025 9:00	63501	HEID_TBK1-2	0	1	1	0	0	0	0.25	0.17	1	1	0	900	900	0
3/3/2025 9:00	66505	CRES_T1	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
3/3/2025 9:00	66504	SMAN_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/3/2025 9:00	46302	ROHR_T1	0	2	2	0	1	1	0.22	0.22	0	0	0	0	0	0
3/3/2025 9:00	20601	GRWO_T2	53	60	7	0.56	0.43	-0.13	0.67	0.58	0	0	0	0	0	0
3/3/2025 9:01	52403	GRPA_T2	7	7	0	0.56	0.76	0.2	-0.88	-0.38	0	0	0	0	0	0
3/3/2025 9:01	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 9:01	52401	GRPA_T2	6	15	9	0.22	0	-0.22	0	0	0	0	0	0	0	0
3/3/2025 9:05	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/3/2025 9:05	65207	PRIN_T4	3	3	0	4.13	4.05	-0.08	0	0	0	0	0	0	0	0
3/3/2025 9:05	65206	PRIN_T4	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/3/2025 9:09	45502	DERR_T2	1	39	38	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
3/3/2025 9:09	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.42	0.48	2	2	0	1800	1800	0
3/3/2025 9:10	45502	DERR_T2	1	39	38	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
3/3/2025 9:10	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.42	0.48	2	2	0	1800	1800	0
3/3/2025 9:13	23402	HONE_T2	0	4	4	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 9:13	23401	HONE_T2	5	6	1	0.96	0.2	-0.76	-0.01	0.02	0	0	0	0	0	0
3/3/2025 9:14	45502	DERR_T2	1	39	38	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
3/3/2025 9:14	61304	EARL_T1	0	2	2	0	0.3	0.3	-0.58	-0.58	1	1	0	600	600	0
3/3/2025 9:14	25402	LAHA_T2	9	13	4	1.03	1.17	0.14	-0.3	-0.29	0	0	0	0	0	0
3/3/2025 9:14	45501	DERR_T2	1	0	-1	0.1	0	-0.1	0.42	0.48	2	2	0	1800	1800	0
3/3/2025 9:15	52403	GRPA_T2	2	13	11	1.1	0.8	-0.3	-0.76	-0.74	0	0	0	0	0	0
3/3/2025 9:15	52401	GRPA_T2	1	14	13	0.5	0	-0.5	-0.9	-0.95	0	0	0	0	0	0
3/3/2025 9:15	52402	GRPA_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
3/3/2025 9:16	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 9:18	52403	GRPA_T2	2	13	11	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
3/3/2025 9:18	52402	GRPA_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
3/3/2025 9:18	41901	REED_T1	1	1	0	1.6	0.7	-0.9	0	0	0	0	0	0	0	0
3/3/2025 9:18	52401	GRPA_T2	1	14	13	0.5	0	-0.5	-0.9	-0.95	0	0	0	0	0	0
3/3/2025 9:18	41902	REED_T1	2	0	-2	0.4	0	-0.4	0.33	0.3	0	0	0	0	0	0
3/3/2025 9:19	41901	REED_T1	1	1	0	1.6	0.7	-0.9	0	0	0	0	0	0	0	0
3/3/2025 9:19	41902	REED_T1	2	0	-2	0.4	0	-0.4	0.66	0.61	0	0	0	0	0	0
3/3/2025 9:21	44904	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 9:21	41902	REED_T1	2	0	-2	0.4	0	-0.4	0.3	0.32	0	0	0	0	0	0
3/3/2025 9:21	24902	WHHA_T1	15	14	-1	0.78	1.04	0.26	0.81	0.79	0	0	0	0	0	0
3/3/2025 9:21	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 9:21	41901	REED_T1	1	1	0	1.6	0.7	-0.9	0	0	0	0	0	0	0	0
3/3/2025 9:24	43401	BENT_T1	3	8	5	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/3/2025 9:24	43402	BENT_T1	0	0	0	0	0	0	-1.54	-1.56	2	2	0	1500	1500	0
3/3/2025 9:26	43402	BENT_T1	0	0	0	0	0	0	-1.54	-1.56	2	2	0	1500	1500	0
3/3/2025 9:26	43401	BENT_T1	3	8	5	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/3/2025 9:26	24902	WHHA_T1	15	14	-1	0.78	1.04	0.26	0.81	0.79	0	0	0	0	0	0
3/3/2025 9:27	24902	WHHA_T1	15	14	-1	0.78	1.04	0.26	0.81	0.79	0	0	0	0	0	0
3/3/2025 9:29	20601	GRWO_T2	60	54	-6	0.62	0.45	-0.17	0.57	0.62	0	0	0	0	0	0
3/3/2025 9:30	20601	GRWO_T2	33	56	23	0.46	0.47	0.01	0.57	0.62	0	0	0	0	0	0
3/3/2025 9:31	20601	GRWO_T2	33	56	23	0.46	0.47	0.01	0.57	0.62	0	0	0	0	0	0
3/3/2025 9:31	52402	GRPA_T2	1	4	3	0.1	0.55	0.45	0	0	0	0	0	0	0	0
3/3/2025 9:31	52403	GRPA_T2	7	19	12	0.7	0.69	-0.01	-0.37	-0.37	0	0	0	0	0	0
3/3/2025 9:31	56501	ROCK_T2	1	1	0	2.9	0.5	-2.4	-1.06	-1.1	0	0	0	0	0	0
3/3/2025 9:31	52401	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/3/2025 9:33	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 9:35	57401	SPAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 9:35	44904	SCOT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 9:35	57403	SPAN_T1	0	2	2	0	0.15	0.15	0.16	0.15	0	0	0	0	0	0
3/3/2025 9:36	43301	WATS_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
3/3/2025 9:36	61301	EARL_T1	0	0	0	0	0	0	-0.35	-0.38	1	1	0	900	900	0
3/3/2025 9:36	61304	EARL_T1	2	21	19	0.3	0.22	-0.08	0	0	0	0	0	0	0	0
3/3/2025 9:36	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 9:36	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 9:36	43304	WATS_T2	1	1	0	0.1	0.3	0.2	-0.41	-0.38	0	0	0	0	0	0
3/3/2025 9:37	61306	EARL_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/3/2025 9:37	57401	SPAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 9:37	66504	SMAN_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/3/2025 9:37	61304	EARL_T1	2	21	19	0.3	0.22	-0.08	-1.1	-1.28	2	2	0	1200	1200	0
3/3/2025 9:37	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 9:37	57403	SPAN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/3/2025 9:38	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 9:38	43301	WATS_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
3/3/2025 9:38	43304	WATS_T2	1	1	0	0.1	0.3	0.2	-0.41	-0.38	0	0	0	0	0	0
3/3/2025 9:38	61304	EARL_T1	2	21	19	0.3	0.22	-0.08	-0.55	-0.64	1	1	0	600	600	0
3/3/2025 9:38	45902	AUBU_T1	2	6	4	0.1	0.3	0.2	0.01	0.01	1	1	0	600	600	0
3/3/2025 9:39	43301	WATS_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
3/3/2025 9:39	43304	WATS_T2	1	1	0	0.1	0.3	0.2	-0.41	-0.38	0	0	0	0	0	0
3/3/2025 9:40	61302	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 9:40	61304	EARL_T1	2	21	19	0.3	0.22	-0.08	-0.55	-0.64	1	1	0	600	600	0
3/3/2025 9:42	41801	GOCI_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
3/3/2025 9:42	20601	GRWO_T2	33	56	23	0.46	0.47	0.01	0.62	0.61	0	0	0	0	0	0
3/3/2025 9:45	41801	GOCI_T2	3	3	0	0.43	0.63	0.2	0	0	0	0	0	0	0	0
3/3/2025 9:49	41901	REED_T1	1	1	0	0.9	0.2	-0.7	0	0	0	0	0	0	0	0
3/3/2025 9:49	66504	SMAN_T2	1	1	0	0.3	0.5	0.2	-0.37	-0.42	0	0	0	0	0	0
3/3/2025 9:49	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 9:50	47401	PENS_T1	2	4	2	1.15	0.58	-0.57	0	0	0	0	0	0	0	0
3/3/2025 9:50	47403	PENS_T1	2	1	-1	0.25	2.2	1.95	0	0	0	0	0	0	0	0
3/3/2025 9:50	66504	SMAN_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/3/2025 9:50	42601	TUSC_T1	13	14	1	0.95	0.84	-0.11	-0.39	-0.93	2	3	1	1800	2400	600
3/3/2025 9:51	57403	SPAN_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/3/2025 9:51	57401	SPAN_T1	0	1	1	0	0.2	0.2	-1.58	-1.59	1	1	0	600	600	0
3/3/2025 9:51	66504	SMAN_T2	1	1	0	0.3	0.5	0.2	-0.42	-0.37	0	0	0	0	0	0
3/3/2025 9:52	43301	WATS_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 9:52	57401	SPAN_T1	0	1	1	0	0.2	0.2	-4.76	-3.18	3	3	0	1800	1800	0
3/3/2025 9:52	57403	SPAN_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/3/2025 9:52	43304	WATS_T2	1	1	0	0.6	0	-0.6	-0.38	-0.47	0	0	0	0	0	0
3/3/2025 9:52	66504	SMAN_T2	1	1	0	0.3	0.5	0.2	-0.42	-0.37	0	0	0	0	0	0
3/3/2025 9:53	57401	SPAN_T1	0	1	1	0	0.2	0.2	-1.59	-1.06	1	1	0	600	600	0
3/3/2025 9:53	57403	SPAN_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/3/2025 9:54	46203	DANV_T2	8	9	1	0.34	0.67	0.33	-2.17	-2.22	0	0	0	0	0	0
3/3/2025 9:54	46206	DANV_T2	84	70	-14	0.54	0.34	-0.2	0	0	0	0	0	0	0	0
3/3/2025 9:54	46204	DANV_T2	121	119	-2	0.8	0.38	-0.42	0	0	0	0	0	0	0	0
3/3/2025 9:55	46204	DANV_T2	121	119	-2	0.8	0.38	-0.42	0	0	0	0	0	0	0	0
3/3/2025 9:55	43304	WATS_T2	1	1	0	0.6	0	-0.6	-0.75	-0.93	0	0	0	0	0	0
3/3/2025 9:55	45501	DERR_T2	0	0	0	0	0	0	0.35	0.36	2	2	0	1800	1800	0
3/3/2025 9:55	46206	DANV_T2	84	70	-14	0.54	0.34	-0.2	0	0	0	0	0	0	0	0
3/3/2025 9:55	46203	DANV_T2	8	9	1	0.34	0.67	0.33	-6.5	-6.67	0	0	0	0	0	0
3/3/2025 9:55	43301	WATS_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 9:56	10801	CHHI_T1	0	3	3	0	0.2	0.2	-1.92	-2.01	3	3	0	2100	2100	0
3/3/2025 9:57	46203	DANV_T2	8	9	1	0.34	0.67	0.33	-2.17	-2.22	0	0	0	0	0	0
3/3/2025 9:57	46204	DANV_T2	121	119	-2	0.8	0.38	-0.42	0	0	0	0	0	0	0	0
3/3/2025 9:57	46206	DANV_T2	84	70	-14	0.54	0.34	-0.2	0	0	0	0	0	0	0	0
3/3/2025 9:58	10801	CHHI_T1	0	3	3	0	0.2	0.2	-1.92	-2.01	3	3	0	2100	2100	0
3/3/2025 9:58	21901	HUMB_T1	0	0	0	0	0	0	-3.31	-3.3	0	0	0	0	0	0
3/3/2025 9:58	51602	DUKE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 9:58	51604	DUKE_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/3/2025 9:58	47203	FAXO_T2	0	0	0	0	0	0	-2.39	-2.37	1	1	0	1200	1200	0
3/3/2025 10:00	46206	DANV_T2	67	42	-25	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
3/3/2025 10:00	46204	DANV_T2	119	92	-27	0.67	0.35	-0.32	0	0	0	0	0	0	0	0
3/3/2025 10:00	52402	GRPA_T2	4	7	3	0.55	0.77	0.22	0	0	0	0	0	0	0	0
3/3/2025 10:00	52403	GRPA_T2	13	15	2	0.66	0.82	0.16	-0.42	-0.35	0	0	0	0	0	0
3/3/2025 10:00	22601	KIMB_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/3/2025 10:00	46203	DANV_T2	9	17	8	0.64	0.61	-0.03	-2.17	-2.22	0	0	0	0	0	0
3/3/2025 10:00	22602	KIMB_T1	0	1	1	0	0.1	0.1	0.14	0.13	0	0	0	0	0	0
3/3/2025 10:00	10801	CHHI_T1	3	4	1	0.17	0.28	0.11	-1.92	-2.01	3	3	0	2100	2100	0
3/3/2025 10:00	52401	GRPA_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/3/2025 10:01	41801	GOCI_T2	3	5	2	0.47	0.62	0.15	0	0	0	0	0	0	0	0
3/3/2025 10:03	52401	GRPA_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/3/2025 10:03	42902	MIDD_T2	1	1	0	0.1	0.2	0.1	-0.34	-0.35	0	0	0	0	0	0
3/3/2025 10:03	52403	GRPA_T2	13	15	2	0.66	0.82	0.16	0	0	0	0	0	0	0	0
3/3/2025 10:03	52402	GRPA_T2	4	7	3	0.55	0.77	0.22	0	0	0	0	0	0	0	0
3/3/2025 10:03	52404	GRPA_T2	0	0	0	0	0	0	-0.33	-0.21	0	0	0	0	0	0
3/3/2025 10:04	52502	PROG_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/3/2025 10:05	54201	PENN_T1	13	22	9	0.74	0.51	-0.23	-1.34	-1.42	0	0	0	0	0	0
3/3/2025 10:05	54203	PENN_T1	18	21	3	0.88	0.85	-0.03	0	0	0	0	0	0	0	0
3/3/2025 10:05	42902	MIDD_T2	1	1	0	0.1	0.2	0.1	-0.34	-0.35	0	0	0	0	0	0
3/3/2025 10:05	52502	PROG_T2	1	2	1	0.2	0.4	0.2	-0.42	-0.43	1	1	0	900	900	0
3/3/2025 10:06	52502	PROG_T2	1	2	1	0.2	0.4	0.2	-0.42	-0.43	1	1	0	900	900	0
3/3/2025 10:07	61304	EARL_T1	21	20	-1	0.21	0.28	0.07	0	0	0	0	0	0	0	0
3/3/2025 10:07	61306	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 10:07	67603	WARW_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
3/3/2025 10:07	61302	EARL_T1	1	1	0	0.2	0.3	0.1	0.77	0.69	2	2	0	1800	1800	0
3/3/2025 10:07	67605	WARW_T1	3	2	-1	0.27	0.4	0.13	0	0	0	0	0	0	0	0
3/3/2025 10:07	61301	EARL_T1	0	0	0	0	0	0	-0.38	-0.33	1	1	0	900	900	0
3/3/2025 10:08	54201	PENN_T1	13	22	9	0.74	0.51	-0.23	-1.42	-1.4	0	0	0	0	0	0
3/3/2025 10:08	52502	PROG_T2	1	2	1	0.2	0.4	0.2	-0.43	-0.49	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/3/2025 10:08	61302	EARL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/3/2025 10:08	67605	WARW_T1	3	2	-1	0.27	0.4	0.13	-0.89	-0.93	0	0	0	0	0	0
3/3/2025 10:08	61301	EARL_T1	0	0	0	0	0	0	-0.38	-0.33	1	1	0	900	900	0
3/3/2025 10:08	61306	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 10:08	61304	EARL_T1	21	20	-1	0.21	0.28	0.07	0	0	0	0	0	0	0	0
3/3/2025 10:08	54203	PENN_T1	18	21	3	0.88	0.85	-0.03	0	0	0	0	0	0	0	0
3/3/2025 10:09	60802	BUCK_T2	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
3/3/2025 10:10	61506	EPET_T2	0	0	0	0	0	0	-1.8	-1.69	2	2	0	1800	1800	0
3/3/2025 10:13	63802	HEMP_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/3/2025 10:13	63803	HEMP_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/3/2025 10:13	63804	HEMP_T1	1	1	0	6.5	6.4	-0.1	0.9	1.03	0	0	0	0	0	0
3/3/2025 10:13	63801	HEMP_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/3/2025 10:13	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	-0.65	-0.65	1	1	0	600	600	0
3/3/2025 10:15	45702	LIND_T2	0	0	0	0	0	0	-1.57	-1.6	0	0	0	0	0	0
3/3/2025 10:15	22601	KIMB_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/3/2025 10:15	22602	KIMB_T1	0	1	1	0	0.1	0.1	0.13	0.13	0	0	0	0	0	0
3/3/2025 10:17	52402	GRPA_T2	6	7	1	0.62	0.77	0.15	0	0	0	0	0	0	0	0
3/3/2025 10:17	58102	NEKI_T1	2	2	0	0.75	0.8	0.05	-0.98	-0.97	1	1	0	1200	1200	0
3/3/2025 10:17	58101	NEKI_T1	2	10	8	0.2	0.45	0.25	0	0	0	0	0	0	0	0
3/3/2025 10:17	52401	GRPA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/3/2025 10:17	52403	GRPA_T2	14	14	0	0.76	0.71	-0.05	-0.35	-0.47	0	0	0	0	0	0
3/3/2025 10:18	53802	MBRG_T2	0	0	0	0	0	0	1.05	1.07	0	0	0	0	0	0
3/3/2025 10:18	53803	MBRG_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/3/2025 10:19	65702	RVIL_T2	0	0	0	0	0	0	-1.36	-1.4	1	1	0	600	600	0
3/3/2025 10:19	52502	PROG_T2	1	3	2	0.5	0.3	-0.2	-0.43	-0.49	1	1	0	900	900	0
3/3/2025 10:19	25801	SUTR_T2	1	1	0	9.7	10	0.3	-0.61	-0.62	0	0	0	0	0	0
3/3/2025 10:20	62104	ELAN_T1	0	10	10	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 10:20	62102	ELAN_T1	0	1	1	0	0.1	0.1	0.65	0.63	0	0	0	0	0	0
3/3/2025 10:20	62105	ELAN_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
3/3/2025 10:21	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 10:21	52502	PROG_T2	1	3	2	0.5	0.3	-0.2	-0.43	-0.49	1	1	0	900	900	0
3/3/2025 10:22	61306	EARL_T1	0	2	2	0	0.2	0.2	0.06	0.05	0	0	0	0	0	0
3/3/2025 10:22	61303	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 10:22	61304	EARL_T1	12	82	70	0.27	0.21	-0.06	0	0	0	0	0	0	0	0
3/3/2025 10:22	61302	EARL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/3/2025 10:24	61304	EARL_T1	12	82	70	0.27	0.21	-0.06	0	0	0	0	0	0	0	0
3/3/2025 10:24	61302	EARL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/3/2025 10:24	61303	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 10:24	61306	EARL_T1	0	2	2	0	0.2	0.2	0.06	0.05	0	0	0	0	0	0
3/3/2025 10:28	41801	GOCI_T2	3	5	2	0.63	0.62	-0.01	0	0	0	0	0	0	0	0
3/3/2025 10:28	46801	HEPB_T2	2	2	0	0.35	0.75	0.4	0	0	0	0	0	0	0	0
3/3/2025 10:28	46803	HEPB_T2	1	2	1	0.2	0.3	0.1	0.27	0.28	0	0	0	0	0	0
3/3/2025 10:29	46802	HEPB_T2	1	1	0	1	1.3	0.3	-1.19	-1.15	0	0	0	0	0	0
3/3/2025 10:31	46803	HEPB_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/3/2025 10:31	46801	HEPB_T2	2	2	0	0.6	0.75	0.15	0.59	0.61	0	0	0	0	0	0
3/3/2025 10:32	45702	LIND_T2	0	0	0	0	0	0	-1.6	-1.63	0	0	0	0	0	0
3/3/2025 10:33	61302	EARL_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/3/2025 10:33	64204	KINZ_T1	18	111	93	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
3/3/2025 10:33	61304	EARL_T1	19	108	89	0.27	0.21	-0.06	0	0	0	0	0	0	0	0
3/3/2025 10:33	61306	EARL_T1	1	2	1	0.1	0.2	0.1	0.06	0.05	0	0	0	0	0	0
3/3/2025 10:33	61303	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 10:33	64203	KINZ_T1	0	0	0	0	0	0	-0.83	-0.74	3	3	0	2100	2100	0
3/3/2025 10:34	20601	GRWO_T2	44	21	-23	0.64	0.64	0	0	0	0	0	0	0	0	0
3/3/2025 10:35	55002	NEWP_T1	9	8	-1	0.94	0.98	0.04	-0.21	-0.2	0	0	0	0	0	0
3/3/2025 10:35	55001	NEWP_T1	1	2	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
3/3/2025 10:37	43301	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/3/2025 10:37	43304	WATS_T2	1	1	0	0.1	0	-0.1	-0.47	-0.44	0	0	0	0	0	0
3/3/2025 10:38	43301	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/3/2025 10:38	43304	WATS_T2	1	1	0	0.1	0	-0.1	-0.47	-0.44	0	0	0	0	0	0
3/3/2025 10:40	43304	WATS_T2	1	1	0	0.1	0	-0.1	-0.47	-0.44	0	0	0	0	0	0
3/3/2025 10:40	43301	WATS_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/3/2025 10:41	45501	DERR_T2	0	1	1	0	0	0	0.4	0.39	2	2	0	1800	1800	0
3/3/2025 10:42	45501	DERR_T2	0	1	1	0	0	0	0.8	0.78	4	4	0	3600	3600	0
3/3/2025 10:44	52403	GRPA_T2	13	17	4	0.81	0.67	-0.14	0	0	0	0	0	0	0	0
3/3/2025 10:44	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/3/2025 10:44	52402	GRPA_T2	7	8	1	0.77	0.55	-0.22	0	0	0	0	0	0	0	0
3/3/2025 10:48	51204	MTON_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/3/2025 10:48	44904	SCOT_T1	0	0	0	0	0	0	-0.19	-0.27	0	0	0	0	0	0
3/3/2025 10:48	52402	GRPA_T2	5	12	7	0.6	0.73	0.13	0	0	0	0	0	0	0	0
3/3/2025 10:48	52403	GRPA_T2	14	18	4	0.62	0.61	-0.01	0	0	0	0	0	0	0	0
3/3/2025 10:48	51202	MTON_T2	1	1	0	0.2	0.3	0.1	-2.02	-2.04	2	2	0	2400	2400	0
3/3/2025 10:48	44905	SCOT_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/3/2025 10:49	52402	GRPA_T2	5	12	7	0.6	0.73	0.13	0	0	0	0	0	0	0	0
3/3/2025 10:49	51202	MTON_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/3/2025 10:49	44901	SCOT_T2	2	1	-1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
3/3/2025 10:49	52403	GRPA_T2	14	18	4	0.62	0.61	-0.01	0	0	0	0	0	0	0	0
3/3/2025 10:49	44902	SCOT_T2	0	1	1	0	0.3	0.3	-0.91	-0.92	0	0	0	0	0	0
3/3/2025 10:49	51204	MTON_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/3/2025 10:50	51202	MTON_T2	1	1	0	0.2	0.3	0.1	-1.01	-1.02	1	1	0	1200	1200	0
3/3/2025 10:50	51204	MTON_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/3/2025 10:50	67605	WARW_T1	4	4	0	0.3	0.45	0.15	-0.91	-0.95	0	0	0	0	0	0
3/3/2025 10:50	51201	MTON_T1	10	0	-10	0.35	0	-0.35	0.19	0.09	0	0	0	0	0	0
3/3/2025 10:52	44902	SCOT_T2	0	1	1	0	0.3	0.3	-0.92	-0.93	0	0	0	0	0	0
3/3/2025 10:52	44901	SCOT_T2	2	1	-1	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
3/3/2025 10:53	43801	SWIL_T1	1	1	0	4.6	4.7	0.1	0	0	0	0	0	0	0	0
3/3/2025 10:53	54203	PENN_T1	21	25	4	0.78	0.84	0.06	0	0.01	0	0	0	0	0	0
3/3/2025 10:53	43802	SWIL_T1	0	0	0	0	0	0	-0.2	-0.19	1	1	0	600	600	0
3/3/2025 10:53	54201	PENN_T1	34	40	6	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
3/3/2025 10:59	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 11:03	42902	MIDD_T2	2	4	2	0.2	0.45	0.25	-0.25	-0.16	0	0	0	0	0	0
3/3/2025 11:04	42903	MIDD_T2	0	0	0	0	0	0	0.44	0.48	1	1	0	1200	1200	0
3/3/2025 11:04	42902	MIDD_T2	2	4	2	0.2	0.45	0.25	0	0	0	0	0	0	0	0
3/3/2025 11:05	66504	SMAN_T2	1	3	2	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
3/3/2025 11:05	66503	SMAN_T2	0	0	0	0	0	0	0.34	0.33	0	0	0	0	0	0
3/3/2025 11:07	43304	WATS_T2	0	0	0	0	0	0	-0.55	-0.44	0	0	0	0	0	0
3/3/2025 11:08	45402	WILO_T2	5	3	-2	0.94	0.7	-0.24	-1.48	-1.51	1	1	0	900	900	0
3/3/2025 11:09	46005	BERW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 11:09	55105	WERT_T1	0	0	0	0	0	0	-0.61	-0.58	1	1	0	900	900	0
3/3/2025 11:09	46001	BERW_T1	0	0	0	0	0	0	0.88	0.86	0	0	0	0	0	0
3/3/2025 11:09	55101	WERT_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 11:10	61302	EARL_T1	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
3/3/2025 11:10	61303	EARL_T1	1	0	-1	0.2	0	-0.2	0.48	0.75	0	0	0	0	0	0
3/3/2025 11:10	55101	WERT_T1	0	1	1	0	0.1	0.1	-1.41	-1.6	2	2	0	1500	1500	0
3/3/2025 11:10	61304	EARL_T1	98	26	-72	0.21	0.26	0.05	0	0	0	0	0	0	0	0
3/3/2025 11:10	61306	EARL_T1	2	3	1	0.15	0.15	0	0	0	0	0	0	0	0	0
3/3/2025 11:10	43304	WATS_T2	0	0	0	0	0	0	-0.55	-0.44	0	0	0	0	0	0
3/3/2025 11:11	46004	BERW_T2	0	1	1	0	0.7	0.7	-0.1	-0.25	0	0	0	0	0	0
3/3/2025 11:20	54201	PENN_T1	28	69	41	0.51	0.37	-0.14	0	0	0	0	0	0	0	0
3/3/2025 11:20	54505	ENOL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/3/2025 11:20	54203	PENN_T1	25	28	3	0.75	0.89	0.14	0.01	0	0	0	0	0	0	0
3/3/2025 11:20	54502	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/3/2025 11:20	54504	ENOL_T2	1	1	0	0.5	0.8	0.3	-1.04	-1.04	1	1	0	600	600	0
3/3/2025 11:22	64101	REFR_T1	1	1	0	0.3	0.8	0.5	0.23	0.23	0	0	0	0	0	0
3/3/2025 11:22	10801	CHHI_T1	2	7	5	0.7	0.63	-0.07	-1.85	-1.91	3	3	0	2100	2100	0
3/3/2025 11:28	60801	BUCK_T1	1	3	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/3/2025 11:28	55101	WERT_T1	1	1	0	0.3	0	-0.3	-1.6	-1.65	2	2	0	1500	1500	0
3/3/2025 11:33	57006	WHHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/3/2025 11:33	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 11:33	57001	WHHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/3/2025 11:33	52402	GRPA_T2	27	13	-14	0.56	0.92	0.36	0	0	0	0	0	0	0	0
3/3/2025 11:33	57002	WHHI_T2	29	47	18	0.28	0.24	-0.04	-2.47	-2.48	1	1	0	1200	1200	0
3/3/2025 11:33	52403	GRPA_T2	13	22	9	0.68	0.6	-0.08	-0.49	-0.44	0	0	0	0	0	0
3/3/2025 11:34	40603	PIGR_T1	2	2	0	0.25	0.8	0.55	0	0	0	0	0	0	0	0
3/3/2025 11:34	40601	PIGR_T1	8	12	4	0.33	0.41	0.08	0	0	0	0	0	0	0	0
3/3/2025 11:34	40602	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 11:35	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 11:35	52402	GRPA_T2	27	13	-14	0.56	0.92	0.36	0	0	0	0	0	0	0	0
3/3/2025 11:35	40603	PIGR_T1	2	2	0	0.25	0.8	0.55	0	0	0	0	0	0	0	0
3/3/2025 11:35	40602	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 11:35	52403	GRPA_T2	13	22	9	0.68	0.6	-0.08	0	0	0	0	0	0	0	0
3/3/2025 11:35	40601	PIGR_T1	8	12	4	0.33	0.41	0.08	-0.57	-0.61	0	0	0	0	0	0
3/3/2025 11:37	60801	BUCK_T1	2	3	1	0.45	0.4	-0.05	-0.84	-0.84	1	1	0	600	600	0
3/3/2025 11:38	57002	WHHI_T2	29	47	18	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
3/3/2025 11:38	57001	WHHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/3/2025 11:38	46903	MNTG_T2	2	80	78	0.95	0.2	-0.75	0	0	0	0	0	0	0	0
3/3/2025 11:38	60301	TWVA_T2	0	0	0	0	0	0	-1.66	-1.69	2	2	0	1800	1800	0
3/3/2025 11:38	46005	BERW_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/3/2025 11:38	42902	MIDD_T2	4	7	3	0.45	0.73	0.28	-0.16	-0.19	0	0	0	0	0	0
3/3/2025 11:38	46901	MNTG_T2	0	0	0	0	0	0	0.98	1.12	0	0	0	0	0	0
3/3/2025 11:38	57006	WHHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/3/2025 11:38	46001	BERW_T1	0	0	0	0	0	0	0.85	0.86	0	0	0	0	0	0
3/3/2025 11:39	40501	CRES_T2	28	7	-21	0.43	0.36	-0.07	0	0	0	0	0	0	0	0
3/3/2025 11:39	41602	CLEV_T1	3	1	-2	0.47	0.7	0.23	0	0	0	0	0	0	0	0
3/3/2025 11:39	40505	CRES_T1	2	2	0	0.3	0.65	0.35	0	0	0	0	0	0	0	0
3/3/2025 11:39	60801	BUCK_T1	2	3	1	0.45	0.4	-0.05	-0.84	-0.84	1	1	0	600	600	0
3/3/2025 11:39	40502	CRES_T2	8	0	-8	0.18	0	-0.18	0.16	0.17	0	0	0	0	0	0
3/3/2025 11:39	40504	CRES_T1	1	25	24	1	0.27	-0.73	-1.72	-1.77	0	0	0	0	0	0
3/3/2025 11:39	41601	CLEV_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/3/2025 11:40	40603	PIGR_T1	2	2	0	0.25	0.8	0.55	0	0	0	0	0	0	0	0
3/3/2025 11:40	40504	CRES_T1	1	25	24	1	0.27	-0.73	-1.72	-1.77	0	0	0	0	0	0
3/3/2025 11:40	40502	CRES_T2	8	0	-8	0.18	0	-0.18	0	0	0	0	0	0	0	0
3/3/2025 11:40	41602	CLEV_T1	3	1	-2	0.47	0.7	0.23	0	0	0	0	0	0	0	0
3/3/2025 11:40	60801	BUCK_T1	2	3	1	0.45	0.4	-0.05	-0.84	-0.84	1	1	0	600	600	0
3/3/2025 11:40	40601	PIGR_T1	8	12	4	0.33	0.41	0.08	-0.61	-0.61	0	0	0	0	0	0
3/3/2025 11:40	40505	CRES_T1	2	2	0	0.3	0.65	0.35	0	0	0	0	0	0	0	0
3/3/2025 11:40	40602	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 11:40	41601	CLEV_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/3/2025 11:40	40501	CRES_T2	28	7	-21	0.43	0.36	-0.07	0	0	0	0	0	0	0	0
3/3/2025 11:41	40504	CRES_T1	1	25	24	1	0.27	-0.73	0	0	0	0	0	0	0	0
3/3/2025 11:41	52501	PROG_T1	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
3/3/2025 11:41	40505	CRES_T1	2	2	0	0.3	0.65	0.35	0	0	0	0	0	0	0	0
3/3/2025 11:42	40603	PIGR_T1	2	2	0	0.25	0.8	0.55	0	0	0	0	0	0	0	0
3/3/2025 11:42	40602	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/3/2025 11:42	40601	PIGR_T1	8	12	4	0.33	0.41	0.08	0	0	0	0	0	0	0	0
3/3/2025 11:43	40505	CRES_T1	2	2	0	0.3	0.65	0.35	0.29	0.39	0	0	0	0	0	0
3/3/2025 11:43	41602	CLEV_T1	3	1	-2	0.47	0.7	0.23	0	0	1	1	0	600	600	0
3/3/2025 11:43	40504	CRES_T1	1	25	24	1	0.27	-0.73	0	0	0	0	0	0	0	0
3/3/2025 11:43	60801	BUCK_T1	2	3	1	0.45	0.4	-0.05	-0.84	-0.84	1	1	0	600	600	0
3/3/2025 11:43	41601	CLEV_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/3/2025 11:44	40504	CRES_T1	1	25	24	1	0.27	-0.73	-1.72	-1.77	0	0	0	0	0	0
3/3/2025 11:44	40505	CRES_T1	2	2	0	0.3	0.65	0.35	0	0	0	0	0	0	0	0
3/3/2025 11:44	64203	KINZ_T1	0	1	1	0	0.4	0.4	-0.78	-0.53	3	3	0	2100	2100	0
3/3/2025 11:44	64204	KINZ_T1	3	18	15	0.9	0.49	-0.41	0	0	0	0	0	0	0	0
3/3/2025 11:44	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/3/2025 11:45	64204	KINZ_T1	8	18	10	0.41	0.49	0.08	0	0	0	0	0	0	0	0
3/3/2025 11:45	54505	ENOL_T2	1	1	0	0.7	0.5	-0.2	-0.65	-0.65	1	1	0	600	600	0
3/3/2025 11:45	64203	KINZ_T1	1	1	0	0.3	0.4	0.1	-0.78	-0.53	3	3	0	2100	2100	0
3/3/2025 11:45	64202	KINZ_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/3/2025 11:45	54504	ENOL_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
3/3/2025 11:46	54504	ENOL_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
3/3/2025 11:46	12305	LANA_T2	1	0	-1	1.9	0	-1.9	0	0	0	0	0	0	0	0
3/3/2025 11:46	42902	MIDD_T2	7	5	-2	0.5	0.98	0.48	-0.16	-0.19	0	0	0	0	0	0
3/3/2025 11:46	12301	LANA_T2	0	0	0	0	0	0	-1.09	-1.11	0	0	0	0	0	0
3/3/2025 11:46	17802	GILB_T1	1	3	2	1.3	0.73	-0.57	0.26	0.26	0	0	0	0	0	0
3/3/2025 11:46	13303	ORVI_T1	3	5	2	0.3	0.36	0.06	0.98	1.01	0	0	0	0	0	0
3/3/2025 11:46	54505	ENOL_T2	1	1	0	0.7	0.5	-0.2	-0.65	-0.65	1	1	0	600	600	0
3/3/2025 11:47	42902	MIDD_T2	7	5	-2	0.5	0.98	0.48	-0.16	-0.19	0	0	0	0	0	0
3/3/2025 11:47	58401	MORO_T1	1	1	0	0.1	0.1	0	-0.99	-1.03	1	1	0	600	600	0
3/3/2025 11:48	65901	SAKR_T2	2	2	0	4.85	4.7	-0.15	-1.19	-1.26	1	1	0	900	900	0
3/3/2025 11:48	40501	CRES_T2	6	6	0	0.28	0.4	0.12	0	0	0	0	0	0	0	0
3/3/2025 11:49	41901	REED_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/3/2025 11:49	41902	REED_T1	3	4	1	0.3	0.4	0.1	0.25	0.29	0	0	0	0	0	0
3/3/2025 11:49	42902	MIDD_T2	7	5	-2	0.5	0.98	0.48	-0.16	-0.19	0	0	0	0	0	0
3/3/2025 11:50	58401	MORO_T1	1	1	0	0.1	0.1	0	-0.99	-1.03	1	1	0	600	600	0
3/3/2025 11:50	55001	NEWP_T1	2	3	1	0.65	0.37	-0.28	-0.37	-0.35	0	0	0	0	0	0
3/3/2025 11:50	55002	NEWP_T1	11	13	2	1.05	0.95	-0.1	-0.18	-0.23	0	0	0	0	0	0
3/3/2025 11:51	41901	REED_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/3/2025 11:51	41902	REED_T1	3	4	1	0.3	0.4	0.1	0.29	0.3	0	0	0	0	0	0
3/3/2025 11:52	16801	WAGN_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/3/2025 11:52	67605	WARW_T1	20	26	6	0.42	0.5	0.08	-1.2	-1.15	0	0	0	0	0	0
3/3/2025 11:52	41902	REED_T1	3	4	1	0.3	0.4	0.1	0.29	0.3	0	0	0	0	0	0
3/3/2025 11:52	41901	REED_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/3/2025 11:52	55001	NEWP_T1	2	3	1	0.65	0.37	-0.28	0	0	0	0	0	0	0	0
3/3/2025 11:52	55002	NEWP_T1	11	13	2	1.05	0.95	-0.1	-0.23	-0.22	0	0	0	0	0	0
3/3/2025 11:54	46004	BERW_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/3/2025 11:54	41602	CLEV_T1	1	2	1	0.2	0.65	0.45	0	0	0	0	0	0	0	0
3/3/2025 11:54	41601	CLEV_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
3/3/2025 11:54	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 11:54	46002	BERW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 11:54	51102	CARL_T1	1	2	1	2.9	1.35	-1.55	0	0	0	0	0	0	0	0
3/3/2025 11:54	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 11:54	51109	CARL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/3/2025 11:54	51101	CARL_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
3/3/2025 11:54	51108	CARL_T1	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/3/2025 11:55	61306	EARL_T1	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/3/2025 11:55	61304	EARL_T1	20	5	-15	0.24	0.43	0.19	0	0	0	0	0	0	0	0
3/3/2025 11:55	61302	EARL_T1	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/3/2025 11:55	61301	EARL_T1	0	0	0	0	0	0	-0.4	0.27	1	0	-1	900	0	-900
3/3/2025 11:56	24101	EHAZ_T1	96	99	3	1.78	1.77	-0.01	0	0	0	0	0	0	0	0
3/3/2025 11:56	24103	EHAZ_T1	4	4	0	1.45	0.73	-0.72	-2.14	-2.07	0	0	0	0	0	0
3/3/2025 11:56	24105	EHAZ_T1	11	15	4	2.85	3.11	0.26	0	0	0	0	0	0	0	0
3/3/2025 11:56	41601	CLEV_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
3/3/2025 11:56	41602	CLEV_T1	1	2	1	0.2	0.65	0.45	0	0	1	1	0	600	600	0
3/3/2025 11:56	24102	EHAZ_T1	9	18	9	0.91	1.09	0.18	0	0	0	0	0	0	0	0
3/3/2025 11:56	24104	EHAZ_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/3/2025 11:57	46204	DANV_T2	4	5	1	0.48	0.6	0.12	0	0	0	0	0	0	0	0
3/3/2025 11:57	46203	DANV_T2	12	27	15	0.57	0.48	-0.09	-2.2	-2.25	0	0	0	0	0	0
3/3/2025 11:57	46206	DANV_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/3/2025 11:58	67605	WARW_T1	20	26	6	0.42	0.5	0.08	0	0	0	0	0	0	0	0
3/3/2025 11:58	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 11:59	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/3/2025 11:59	44502	HAMI_T2	1	1	0	2.4	2.6	0.2	0.05	0.05	0	0	0	0	0	0
3/3/2025 11:59	44505	HAMI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/3/2025 12:00	44505	HAMI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/3/2025 12:00	44502	HAMI_T2	1	1	0	2.6	2.6	0	0.05	0.05	0	0	0	0	0	0
3/3/2025 12:01	52004	LING_T2	3	3	0	3.37	3.53	0.16	0.06	0.12	0	0	0	0	0	0
3/3/2025 12:02	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/3/2025 12:02	54506	ENOL_T2	0	0	0	0	0	0	-1.44	-1.46	0	1	1	0	600	600
3/3/2025 12:02	54504	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/3/2025 12:02	52004	LING_T2	3	3	0	3.37	3.53	0.16	0.13	0.24	0	0	0	0	0	0
3/3/2025 12:05	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 12:05	65601	QVIL_T2	5	6	1	0.42	0.5	0.08	0	0	0	0	0	0	0	0
3/3/2025 12:06	67401	WAKE_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/3/2025 12:06	67605	WARW_T1	19	29	10	0.47	0.6	0.13	0	0	0	0	0	0	0	0
3/3/2025 12:06	52204	DEVO_T2	1	1	0	0.6	1.2	0.6	0	0	0	0	0	0	0	0
3/3/2025 12:06	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 12:06	67402	WAKE_T2	4	3	-1	0.43	0.27	-0.16	1	0.98	2	2	0	1200	1200	0
3/3/2025 12:06	67604	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 12:08	67402	WAKE_T2	4	3	-1	0.43	0.27	-0.16	1	0.98	2	2	0	1200	1200	0
3/3/2025 12:08	67401	WAKE_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/3/2025 12:09	44505	HAMI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/3/2025 12:09	44502	HAMI_T2	1	1	0	2.6	2.6	0	0.05	0.05	0	0	0	0	0	0
3/3/2025 12:10	46005	BERW_T1	1	2	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/3/2025 12:10	67605	WARW_T1	19	29	10	0.47	0.6	0.13	-1.15	-1.05	0	0	0	0	0	0
3/3/2025 12:10	46001	BERW_T1	0	0	0	0	0	0	0.86	0.82	0	0	0	0	0	0
3/3/2025 12:11	40701	FFLD_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/3/2025 12:11	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 12:11	67401	WAKE_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/3/2025 12:11	67402	WAKE_T2	4	3	-1	0.43	0.27	-0.16	0.5	0.49	1	1	0	600	600	0
3/3/2025 12:12	46001	BERW_T1	0	0	0	0	0	0	0.86	0.82	0	0	0	0	0	0
3/3/2025 12:12	46005	BERW_T1	1	2	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/3/2025 12:12	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 12:12	11901	ETEX_T2	2	4	2	0.4	0.4	0	0.33	0.35	0	0	0	0	0	0
3/3/2025 12:13	40101	HUNT_T2	1	0	-1	0.1	0	-0.1	-1.1	-1.09	0	0	0	0	0	0
3/3/2025 12:14	11901	ETEX_T2	2	4	2	0.4	0.4	0	0	0	0	0	0	0	0	0
3/3/2025 12:14	52403	GRPA_T2	10	13	3	0.62	0.45	-0.17	-0.51	-0.53	0	0	0	0	0	0
3/3/2025 12:14	52404	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 12:14	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 12:14	52401	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/3/2025 12:14	52402	GRPA_T2	10	11	1	0.92	0.79	-0.13	0	0	0	0	0	0	0	0
3/3/2025 12:15	40702	FFLD_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 12:15	40703	FFLD_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
3/3/2025 12:15	40701	FFLD_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/3/2025 12:16	11904	ETEX_T2	0	1	1	0	0.1	0.1	-0.74	-0.78	0	0	0	0	0	0
3/3/2025 12:16	63501	HEID_TBK1-2	2	3	1	0.15	0.3	0.15	0	-0.04	1	1	0	900	900	0
3/3/2025 12:16	11901	ETEX_T2	3	4	1	0.27	0.4	0.13	0	0	0	0	0	0	0	0
3/3/2025 12:17	13501	MCMI_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
3/3/2025 12:17	40702	FFLD_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 12:17	40701	FFLD_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/3/2025 12:17	20603	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 12:17	20601	GRWO_T2	2	3	1	0.3	0.4	0.1	0.49	0.46	0	0	0	0	0	0
3/3/2025 12:17	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 12:18	11901	ETEX_T2	3	4	1	0.27	0.4	0.13	0	0	0	0	0	0	0	0
3/3/2025 12:18	47402	PENS_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/3/2025 12:18	11904	ETEX_T2	0	1	1	0	0.1	0.1	-0.74	-0.78	0	0	0	0	0	0
3/3/2025 12:18	47401	PENS_T1	5	5	0	0.9	1.24	0.34	0.69	0.81	0	0	0	0	0	0
3/3/2025 12:18	47403	PENS_T1	0	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0
3/3/2025 12:18	44901	SCOT_T2	1	1	0	0.1	0.7	0.6	0.19	-0.04	0	0	0	0	0	0
3/3/2025 12:19	41002	LAUR_T2	10	37	27	0.34	0.27	-0.07	-0.98	-0.99	0	0	0	0	0	0
3/3/2025 12:19	41001	LAUR_T2	40	65	25	0.26	0.36	0.1	0	0	0	0	0	0	0	0
3/3/2025 12:20	13302	ORVI_T2	139	246	107	0.21	0.26	0.05	0.27	0.24	0	0	0	0	0	0
3/3/2025 12:21	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 12:22	52501	PROG_T1	0	0	0	0	0	0	-1.45	-1.43	0	0	0	0	0	0
3/3/2025 12:23	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 12:24	67605	WARW_T1	20	28	8	0.54	0.62	0.08	-1.05	-1.07	0	0	0	0	0	0
3/3/2025 12:25	45902	AUBU_T1	2	3	1	0.5	0.63	0.13	0	0	0	0	0	0	0	0
3/3/2025 12:25	45901	AUBU_T1	0	1	1	0	0.1	0.1	0.01	0.01	0	0	0	0	0	0
3/3/2025 12:28	52403	GRPA_T2	8	14	6	0.46	0.55	0.09	-0.53	-0.53	0	0	0	0	0	0
3/3/2025 12:28	52404	GRPA_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
3/3/2025 12:28	52402	GRPA_T2	9	10	1	0.79	0.83	0.04	0	0	0	0	0	0	0	0
3/3/2025 12:28	45501	DERR_T2	4	6	2	0.4	0.36	-0.04	0.24	0.29	2	2	0	1800	1800	0
3/3/2025 12:28	11904	ETEX_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 12:28	11901	ETEX_T2	3	4	1	0.27	0.4	0.13	0.35	0.36	0	0	0	0	0	0
3/3/2025 12:28	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 12:30	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 12:30	52403	GRPA_T2	13	17	4	0.57	0.55	-0.02	-0.53	-0.53	0	0	0	0	0	0
3/3/2025 12:30	52402	GRPA_T2	10	9	-1	0.75	0.94	0.19	0	0	0	0	0	0	0	0
3/3/2025 12:32	41001	LAUR_T2	65	38	-27	0.36	0.24	-0.12	0	0	0	0	0	0	0	0
3/3/2025 12:32	41002	LAUR_T2	37	7	-30	0.27	0.46	0.19	0	0	0	0	0	0	0	0
3/3/2025 12:32	11904	ETEX_T2	0	3	3	0	0.17	0.17	-0.78	-0.78	0	0	0	0	0	0
3/3/2025 12:32	11901	ETEX_T2	3	5	2	0.5	0.46	-0.04	0	0	0	0	0	0	0	0
3/3/2025 12:37	52501	PROG_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 12:38	52501	PROG_T1	0	1	1	0	0.1	0.1	-0.48	-0.51	0	0	0	0	0	0
3/3/2025 12:42	46802	HEPB_T1	6	4	-2	0.6	0.75	0.15	-1.23	-1.18	0	0	0	0	0	0
3/3/2025 12:42	46803	HEPB_T2	4	4	0	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
3/3/2025 12:42	46801	HEPB_T2	3	2	-1	0.57	0.85	0.28	0	0	0	0	0	0	0	0
3/3/2025 12:44	67805	WLAN_T1	0	0	0	0	0	0	-1.03	-1.12	0	0	0	0	0	0
3/3/2025 12:44	67804	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 12:44	10901	COOP_T2	2	3	1	0.65	0.57	-0.08	0	0	0	0	0	0	0	0
3/3/2025 12:44	10903	COOP_T2	4	5	1	0.75	0.72	-0.03	0	0	0	0	0	0	0	0
3/3/2025 12:47	46803	HEPB_T2	3	4	1	0.53	0.4	-0.13	0	0	0	0	0	0	0	0
3/3/2025 12:47	46801	HEPB_T2	2	2	0	0.85	0.85	0	0.58	0.61	0	0	0	0	0	0
3/3/2025 12:48	64202	KINZ_T1	2	1	-1	0.25	0.6	0.35	0	0	0	0	0	0	0	0
3/3/2025 12:48	17802	GILB_T1	3	4	1	0.47	0.95	0.48	0.24	0.22	0	0	0	0	0	0
3/3/2025 12:48	64204	KINZ_T1	21	3	-18	0.46	0.77	0.31	0	0	0	0	0	0	0	0
3/3/2025 12:48	64203	KINZ_T1	0	0	0	0	0	0	-0.81	-0.75	3	3	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/3/2025 12:49	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/3/2025 12:49	66504	SMAN_T2	3	3	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/3/2025 12:53	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
3/3/2025 12:53	66504	SMAN_T2	3	3	0	0.5	0.4	-0.1	-0.51	-0.43	0	0	0	0	0	0
3/3/2025 12:53	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/3/2025 12:53	45902	AUBU_T1	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/3/2025 12:55	67605	WARW_T1	26	21	-5	0.52	0.5	-0.02	-1.05	-1.05	0	0	0	0	0	0
3/3/2025 12:55	41601	CLEV_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/3/2025 12:55	41602	CLEV_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
3/3/2025 12:56	52402	GRPA_T2	9	10	1	0.9	0.91	0.01	0	0	0	0	0	0	0	0
3/3/2025 12:56	41601	CLEV_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/3/2025 12:56	52403	GRPA_T2	9	16	7	0.47	0.58	0.11	-0.5	-0.53	0	0	0	0	0	0
3/3/2025 12:56	52401	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/3/2025 12:56	41602	CLEV_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
3/3/2025 12:57	61803	EELI_T2	0	0	0	0	0	0	0.19	0.22	1	1	0	600	600	0
3/3/2025 12:57	61801	EELI_T2	9	26	17	0.63	0.38	-0.25	0	0	0	0	0	0	0	0
3/3/2025 12:58	41601	CLEV_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/3/2025 12:58	41602	CLEV_T1	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
3/3/2025 12:58	17805	GILB_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
3/3/2025 12:58	17804	GILB_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/3/2025 13:00	17804	GILB_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/3/2025 13:00	61801	EELI_T2	25	19	-6	0.39	0.39	0	-0.36	-0.34	0	0	0	0	0	0
3/3/2025 13:00	17805	GILB_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
3/3/2025 13:00	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 13:02	44505	HAMI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 13:02	44502	HAMI_T2	1	1	0	2.4	2.6	0.2	0.05	0.06	0	0	0	0	0	0
3/3/2025 13:05	52501	PROG_T1	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
3/3/2025 13:06	67602	WARW_T2	0	1	1	0	0	0	1.64	1.49	1	1	0	300	300	0
3/3/2025 13:07	67605	WARW_T1	21	20	-1	0.5	0.45	-0.05	-1.05	-1.1	0	0	0	0	0	0
3/3/2025 13:07	67602	WARW_T2	0	1	1	0	0	0	1.64	1.49	1	1	0	300	300	0
3/3/2025 13:08	52501	PROG_T1	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
3/3/2025 13:08	67605	WARW_T1	21	20	-1	0.5	0.45	-0.05	-1.05	-1.1	0	0	0	0	0	0
3/3/2025 13:08	67602	WARW_T2	0	1	1	0	0	0	1.64	1.49	1	1	0	300	300	0
3/3/2025 13:09	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 13:09	41602	CLEV_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
3/3/2025 13:09	41601	CLEV_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/3/2025 13:10	40504	CRES_T1	19	11	-8	0.2	0.2	0	0	0	0	0	0	0	0	0
3/3/2025 13:10	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 13:10	40505	CRES_T1	3	3	0	0.7	0.37	-0.33	0.39	0.38	0	0	0	0	0	0
3/3/2025 13:10	46005	BERW_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/3/2025 13:11	41602	CLEV_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
3/3/2025 13:11	41601	CLEV_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/3/2025 13:12	41602	CLEV_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
3/3/2025 13:12	40504	CRES_T1	19	11	-8	0.2	0.2	0	0	0	0	0	0	0	0	0
3/3/2025 13:12	40505	CRES_T1	3	3	0	0.7	0.37	-0.33	0.39	0.38	0	0	0	0	0	0
3/3/2025 13:12	41601	CLEV_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/3/2025 13:13	40501	CRES_T2	8	10	2	0.36	0.37	0.01	0	0	0	0	0	0	0	0
3/3/2025 13:13	40505	CRES_T1	3	3	0	0.7	0.37	-0.33	0.77	0.76	0	0	0	0	0	0
3/3/2025 13:13	40502	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 13:13	40504	CRES_T1	19	11	-8	0.2	0.2	0	0	0	0	0	0	0	0	0
3/3/2025 13:14	63501	HEID_TBK1-2	2	3	1	0.4	0.3	-0.1	0.02	0.65	3	3	0	2700	2700	0
3/3/2025 13:14	40504	CRES_T1	19	11	-8	0.2	0.2	0	0	0	0	0	0	0	0	0
3/3/2025 13:14	40505	CRES_T1	3	3	0	0.7	0.37	-0.33	0.39	0.38	0	0	0	0	0	0
3/3/2025 13:14	16902	MECK_T1	0	0	0	0	0	0	0.13	0.08	0	0	0	0	0	0
3/3/2025 13:15	63501	HEID_TBK1-2	3	2	-1	0.3	0.2	-0.1	0.01	0.22	1	1	0	900	900	0
3/3/2025 13:16	67605	WARW_T1	17	21	4	0.45	0.42	-0.03	-1.05	-1.1	0	0	0	0	0	0
3/3/2025 13:17	52003	LING_T1	1	0	-1	0.3	1.3	1	0	0	0	0	0	0	0	0
3/3/2025 13:17	52001	LING_T1	0	0	0	0	0	0	-1.05	-1.04	0	0	0	0	0	0
3/3/2025 13:22	14801	TREI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 13:22	14802	TREI_T2	1	1	0	0.2	0.2	0	0.36	0.35	0	0	0	0	0	0
3/3/2025 13:23	67602	WARW_T2	1	1	0	1.7	0	-1.7	1.49	1.46	1	1	0	300	300	0
3/3/2025 13:23	67605	WARW_T1	17	21	4	0.45	0.42	-0.03	-2.19	-2.1	0	0	0	0	0	0
3/3/2025 13:24	67402	WAKE_T2	1	3	2	0.3	0.2	-0.1	0.44	0.46	1	1	0	600	600	0
3/3/2025 13:24	14802	TREI_T2	1	1	0	0.2	0.2	0	0.73	0.71	0	0	0	0	0	0
3/3/2025 13:24	67401	WAKE_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
3/3/2025 13:24	14801	TREI_T2	0	2	2	0	0.1	0.1	0.37	0.39	0	0	0	0	0	0
3/3/2025 13:26	14801	TREI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 13:26	14802	TREI_T2	1	1	0	0.2	0.2	0	0.36	0.35	0	0	0	0	0	0
3/3/2025 13:33	52004	LING_T2	3	3	0	3.63	3.6	-0.03	0.06	0.23	0	0	0	0	0	0
3/3/2025 13:34	58402	MORO_T1	0	3	3	0	0.17	0.17	-0.93	-0.95	3	3	0	2400	2400	0
3/3/2025 13:34	58401	MORO_T1	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
3/3/2025 13:35	58401	MORO_T1	2	1	-1	0.25	0.4	0.15	-1.08	-1.08	1	1	0	600	600	0
3/3/2025 13:35	58402	MORO_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/3/2025 13:39	41601	CLEV_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/3/2025 13:39	67605	WARW_T1	19	26	7	0.45	0.56	0.11	-2.1	-2.18	0	0	0	0	0	0
3/3/2025 13:40	61703	ELIZ_T1	118	141	23	0.36	0.51	0.15	-2.97	-2.55	2	2	0	2100	2100	0
3/3/2025 13:40	61701	ELIZ_T1	2	2	0	3.15	3.35	0.2	0	0	0	0	0	0	0	0
3/3/2025 13:41	61703	ELIZ_T1	118	141	23	0.36	0.51	0.15	-5.94	-5.1	4	4	0	4200	4200	0
3/3/2025 13:41	61701	ELIZ_T1	2	2	0	3.15	3.35	0.2	0	0	0	0	0	0	0	0
3/3/2025 13:43	61703	ELIZ_T1	118	141	23	0.36	0.51	0.15	-2.97	-2.55	2	2	0	2100	2100	0
3/3/2025 13:43	61701	ELIZ_T1	2	2	0	3.15	3.35	0.2	0	0	0	0	0	0	0	0
3/3/2025 13:44	46803	HEPB_T2	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
3/3/2025 13:44	46801	HEPB_T2	3	3	0	0.7	0.77	0.07	0.58	0.59	0	0	0	0	0	0
3/3/2025 13:45	46801	HEPB_T2	3	4	1	0.77	0.68	-0.09	0	0	0	0	0	0	0	0
3/3/2025 13:45	61701	ELIZ_T1	2	2	0	3.35	3.15	-0.2	0	0	0	0	0	0	0	0
3/3/2025 13:45	46803	HEPB_T2	2	8	6	0.3	0.31	0.01	0	0	0	0	0	0	0	0
3/3/2025 13:45	61703	ELIZ_T1	141	5	-136	0.51	0.46	-0.05	0	0	0	0	0	0	0	0
3/3/2025 13:46	61703	ELIZ_T1	141	5	-136	0.51	0.46	-0.05	-2.97	-2.55	2	2	0	2100	2100	0
3/3/2025 13:46	61701	ELIZ_T1	2	2	0	3.35	3.15	-0.2	0	0	0	0	0	0	0	0
3/3/2025 13:54	41601	CLEV_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/3/2025 13:56	11302	EMMA_T1	1	4	3	0.7	0.33	-0.37	0	0	0	0	0	0	0	0
3/3/2025 13:56	11303	EMMA_T1	5	7	2	0.66	0.59	-0.07	0	0	0	0	0	0	0	0
3/3/2025 13:58	11303	EMMA_T1	5	7	2	0.66	0.59	-0.07	0	0	0	0	0	0	0	0
3/3/2025 13:58	11302	EMMA_T1	1	4	3	0.7	0.33	-0.37	0	0	0	0	0	0	0	0
3/3/2025 13:58	12202	FOGE_T2	8	6	-2	0.66	0.87	0.21	-0.57	-0.59	1	1	0	600	600	0
3/3/2025 14:05	67001	STHI_T2	1	3	2	0.1	2.77	2.67	0.08	0.08	0	0	0	0	0	0
3/3/2025 14:05	67002	STHI_T2	5	6	1	0.16	0.17	0.01	0	0	0	0	0	0	0	0
3/3/2025 14:06	57201	ROSS_T1	0	0	0	0	0	0	-0.5	-0.47	0	0	0	0	0	0
3/3/2025 14:06	57205	ROSS_T1	3	3	0	1.07	1.07	0	0	0	0	0	0	0	0	0
3/3/2025 14:06	67001	STHI_T2	1	3	2	0.1	2.77	2.67	0.08	0.09	0	0	0	0	0	0
3/3/2025 14:06	67002	STHI_T2	5	6	1	0.16	0.17	0.01	0.59	0.58	0	0	0	0	0	0
3/3/2025 14:07	67001	STHI_T2	1	3	2	0.1	2.77	2.67	0.08	0.09	0	0	0	0	0	0
3/3/2025 14:07	67002	STHI_T2	5	6	1	0.16	0.17	0.01	1.77	1.74	0	0	0	0	0	0
3/3/2025 14:08	67001	STHI_T2	1	3	2	0.1	2.77	2.67	0	0	0	0	0	0	0	0
3/3/2025 14:08	67002	STHI_T2	5	6	1	0.16	0.17	0.01	0.59	0.58	0	0	0	0	0	0
3/3/2025 14:08	67203	TEHI_T1	0	0	0	0	0	0	2.18	2.27	3	3	0	2100	2100	0
3/3/2025 14:10	45501	DERR_T2	2	2	0	0.25	0.1	-0.15	0.23	0.22	2	2	0	1800	1800	0
3/3/2025 14:10	46004	BERW_T2	1	2	1	0.3	0.4	0.1	-0.27	-0.27	0	0	0	0	0	0
3/3/2025 14:11	46002	BERW_T2	0	0	0	0	0	0	-0.59	-0.66	1	1	0	900	900	0
3/3/2025 14:19	64101	REFR_T1	5	4	-1	0.34	0.6	0.26	0	0	0	0	0	0	0	0
3/3/2025 14:22	64101	REFR_T1	5	4	-1	0.34	0.6	0.26	0.14	0.14	0	0	0	0	0	0
3/3/2025 14:25	52402	GRPA_T2	10	12	2	0.68	0.78	0.1	0	0	0	0	0	0	0	0
3/3/2025 14:25	52403	GRPA_T2	17	14	-3	0.64	0.53	-0.11	-0.57	-0.58	0	0	0	0	0	0
3/3/2025 14:25	52401	GRPA_T2	3	2	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/3/2025 14:26	45501	DERR_T2	1	2	1	0.1	0.1	0	0.22	0.19	2	2	0	1800	1800	0
3/3/2025 14:26	64101	REFR_T1	5	4	-1	0.34	0.6	0.26	0.14	0.14	0	0	0	0	0	0
3/3/2025 14:32	46801	HEPB_T2	4	18	14	0.7	0.24	-0.46	0	0	0	0	0	0	0	0
3/3/2025 14:32	46803	HEPB_T2	3	6	3	0.27	0.18	-0.09	0	0	0	0	0	0	0	0
3/3/2025 14:36	52402	GRPA_T2	12	10	-2	0.78	0.62	-0.16	0	0	0	0	0	0	0	0
3/3/2025 14:36	52403	GRPA_T2	13	11	-2	0.55	0.55	0	-0.57	-0.58	0	0	0	0	0	0
3/3/2025 14:36	52401	GRPA_T2	2	3	1	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
3/3/2025 14:39	52402	GRPA_T2	12	10	-2	0.78	0.62	-0.16	0	0	0	0	0	0	0	0
3/3/2025 14:39	52401	GRPA_T2	2	3	1	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
3/3/2025 14:39	52403	GRPA_T2	13	11	-2	0.55	0.55	0	-0.58	-0.6	0	0	0	0	0	0
3/3/2025 14:42	40504	CRES_T1	19	1	-18	0.22	0.5	0.28	0	0	0	0	0	0	0	0
3/3/2025 14:42	40505	CRES_T1	3	0	-3	0.27	0	-0.27	0.65	0.66	0	0	0	0	0	0
3/3/2025 14:43	40505	CRES_T1	3	0	-3	0.27	0	-0.27	0.65	0.66	0	0	0	0	0	0
3/3/2025 14:43	40504	CRES_T1	19	1	-18	0.22	0.5	0.28	0	0	0	0	0	0	0	0
3/3/2025 14:44	20601	GRWO_T2	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
3/3/2025 14:44	40505	CRES_T1	3	0	-3	0.27	0	-0.27	0.33	0.33	0	0	0	0	0	0
3/3/2025 14:44	40504	CRES_T1	19	1	-18	0.22	0.5	0.28	0	0	0	0	0	0	0	0
3/3/2025 14:44	20603	GRWO_T2	8	9	1	0.23	0	-0.23	0	0	0	0	0	0	0	0
3/3/2025 14:51	40901	JESH_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/3/2025 14:51	40902	JESH_T1	0	1	1	0	0.4	0.4	-1.49	-1.47	1	1	0	600	600	0
3/3/2025 14:52	57106	SPHI_T2	5	7	2	1.2	0.99	-0.21	0	0	0	0	0	0	0	0
3/3/2025 14:52	57104	SPHI_T2	2	4	2	0.25	1.57	1.32	-1.92	-1.87	1	1	0	900	900	0
3/3/2025 14:52	57102	SPHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/3/2025 14:52	57103	SPHI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/3/2025 14:52	57101	SPHI_T2	6	6	0	0.97	0.7	-0.27	0	0	0	0	0	0	0	0
3/3/2025 14:53	57102	SPHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/3/2025 14:53	57104	SPHI_T2	2	4	2	0.25	1.57	1.32	-1.92	-1.87	1	1	0	900	900	0
3/3/2025 14:53	57103	SPHI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/3/2025 14:53	57101	SPHI_T2	6	6	0	0.97	0.7	-0.27	0.27	0.25	0	0	0	0	0	0
3/3/2025 14:53	57106	SPHI_T2	5	7	2	1.2	0.99	-0.21	0	0	0	0	0	0	0	0
3/3/2025 14:55	57103	SPHI_T2	1	1	0	0.2	0.3	0.1	-0.98	-1.01	1	1	0	600	600	0
3/3/2025 14:55	57104	SPHI_T2	2	4	2	0.25	1.57	1.32	-1.92	-1.87	1	1	0	900	900	0
3/3/2025 14:55	57106	SPHI_T2	5	7	2	1.2	0.99	-0.21	0	0	0	0	0	0	0	0
3/3/2025 14:55	57101	SPHI_T2	6	6	0	0.97	0.7	-0.27	0	0	0	0	0	0	0	0
3/3/2025 14:55	57102	SPHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/3/2025 14:56	57102	SPHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/3/2025 14:56	57104	SPHI_T2	2	4	2	0.25	1.57	1.32	0	0	0	0	0	0	0	0
3/3/2025 14:56	57101	SPHI_T2	6	6	0	0.97	0.7	-0.27	0	0	0	0	0	0	0	0
3/3/2025 14:56	57106	SPHI_T2	5	7	2	1.2	0.99	-0.21	0	0	0	0	0	0	0	0
3/3/2025 14:56	57103	SPHI_T2	1	1	0	0.2	0.3	0.1	-1.95	-2.01	2	2	0	1200	1200	0
3/3/2025 15:03	47001	HUGH_T2	5	3	-2	5.42	8.63	3.21	-1.88	-1.88	1	1	0	900	900	0
3/3/2025 15:03	47002	HUGH_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/3/2025 15:05	58201	NEWV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/3/2025 15:05	58401	MORO_T1	2	0	-2	0.1	0	-0.1	-1.08	-1.1	1	1	0	600	600	0
3/3/2025 15:07	58401	MORO_T1	2	0	-2	0.1	0	-0.1	-1.1	-1.1	1	1	0	600	600	0
3/3/2025 15:09	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 15:09	40902	JESH_T1	0	1	1	0	0.4	0.4	-1.47	-0.83	1	0	-1	600	0	-600
3/3/2025 15:13	40902	JESH_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/3/2025 15:13	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/3/2025 15:17	54501	ENOL_T2	4	4	0	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
3/3/2025 15:17	54503	ENOL_T2	0	0	0	0	0	0	-1.08	-1.11	1	1	0	600	600	0
3/3/2025 15:17	54502	ENOL_T2	0	1	1	0	0.2	0.2	-2.07	-2.07	1	1	0	600	600	0
3/3/2025 15:17	54505	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/3/2025 15:20	44201	POIN_T1	65	89	24	0.24	0.23	-0.01	-3.4	-3.37	4	4	0	4200	4200	0
3/3/2025 15:21	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 15:21	67605	WARW_T1	21	11	-10	0.54	0.32	-0.22	0	0	0	0	0	0	0	0
3/3/2025 15:22	67602	WARW_T2	1	2	1	1	0.2	-0.8	3.14	3.1	2	2	0	600	600	0
3/3/2025 15:23	57106	SPHI_T2	5	4	-1	1.18	1.48	0.3	0	0	0	0	0	0	0	0
3/3/2025 15:23	57103	SPHI_T2	1	1	0	0.2	0.1	-0.1	-1	-1	1	1	0	600	600	0
3/3/2025 15:23	67603	WARW_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
3/3/2025 15:23	57104	SPHI_T2	4	6	2	2.55	0.15	-2.4	-1.9	-1.94	1	1	0	900	900	0
3/3/2025 15:23	67605	WARW_T1	21	11	-10	0.54	0.32	-0.22	0	0	0	0	0	0	0	0
3/3/2025 15:23	57101	SPHI_T2	6	6	0	0.7	0.83	0.13	0	0	0	0	0	0	0	0
3/3/2025 15:33	55001	NEWP_T1	1	1	0	0.2	0.4	0.2	-0.88	-0.92	0	0	0	0	0	0
3/3/2025 15:33	55002	NEWP_T1	10	8	-2	0.9	1.08	0.18	0	0	0	0	0	0	0	0
3/3/2025 15:34	64101	REFR_T1	2	2	0	1.05	0.3	-0.75	0.15	0.12	0	0	0	0	0	0
3/3/2025 15:35	55001	NEWP_T1	1	1	0	0.2	0.4	0.2	-0.44	-0.46	0	0	0	0	0	0
3/3/2025 15:35	55002	NEWP_T1	10	8	-2	0.9	1.08	0.18	-0.26	-0.26	0	0	0	0	0	0
3/3/2025 15:36	55002	NEWP_T1	10	8	-2	0.9	1.08	0.18	-0.26	-0.26	0	0	0	0	0	0
3/3/2025 15:36	64101	REFR_T1	2	2	0	1.05	0.3	-0.75	0.12	0.16	0	0	0	0	0	0
3/3/2025 15:36	55001	NEWP_T1	1	1	0	0.2	0.4	0.2	-0.44	-0.46	0	0	0	0	0	0
3/3/2025 15:37	55001	NEWP_T1	1	1	0	0.2	0.4	0.2	-0.92	-0.94	0	0	0	0	0	0
3/3/2025 15:37	55002	NEWP_T1	10	8	-2	0.9	1.08	0.18	-0.26	-0.23	0	0	0	0	0	0
3/3/2025 15:38	55002	NEWP_T1	10	8	-2	0.9	1.08	0.18	-0.26	-0.23	0	0	0	0	0	0
3/3/2025 15:38	55001	NEWP_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/3/2025 15:40	46004	BERW_T2	1	0	-1	0.2	0	-0.2	-0.44	-0.5	0	0	0	0	0	0
3/3/2025 15:50	17002	RIRO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 15:55	52402	GRPA_T2	6	4	-2	1.03	1.58	0.55	0	0	0	0	0	0	0	0
3/3/2025 15:55	52401	GRPA_T2	3	5	2	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/3/2025 15:55	52403	GRPA_T2	3	2	-1	0.5	0.2	-0.3	-0.55	-0.51	0	0	0	0	0	0
3/3/2025 16:04	25402	LAHA_T2	0	1	1	0	0	0	-0.6	-0.61	0	0	0	0	0	0
3/3/2025 16:16	45702	LIND_T2	3	34	31	0.8	0.23	-0.57	0	0	0	0	0	0	0	0
3/3/2025 16:16	45701	LIND_T2	0	0	0	0	0	0	-1.66	-1.67	0	0	0	0	0	0
3/3/2025 16:17	44502	HAMI_T2	1	1	0	3.5	3.5	0	0.02	0.02	0	0	0	0	0	0
3/3/2025 16:18	45702	LIND_T2	3	34	31	0.8	0.23	-0.57	0	0	0	0	0	0	0	0
3/3/2025 16:18	45701	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 16:19	55002	NEWP_T1	6	6	0	1.05	0.87	-0.18	-0.23	-0.26	0	0	0	0	0	0
3/3/2025 16:30	20603	GRWO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 16:30	20601	GRWO_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
3/3/2025 16:36	44901	SCOT_T2	0	0	0	0	0	0	-0.03	-0.12	0	0	0	0	0	0
3/3/2025 16:36	63803	HEMP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/3/2025 16:36	63804	HEMP_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
3/3/2025 16:36	63802	HEMP_T1	0	0	0	0	0	0	0.14	0.18	0	0	0	0	0	0
3/3/2025 16:37	52403	GRPA_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
3/3/2025 16:37	52401	GRPA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/3/2025 16:37	52402	GRPA_T2	3	2	-1	1.17	0.75	-0.42	0	0	0	0	0	0	0	0
3/3/2025 16:38	40602	PIGR_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/3/2025 16:38	44902	SCOT_T2	0	0	0	0	0	0	-0.98	-0.96	0	0	0	0	0	0
3/3/2025 16:38	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 16:39	40602	PIGR_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/3/2025 16:39	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 16:44	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 16:44	44502	HAMI_T2	1	1	0	3.5	3.5	0	0	0	0	0	0	0	0	0
3/3/2025 16:45	44502	HAMI_T2	1	1	0	3.5	3.6	0.1	0	0	0	0	0	0	0	0
3/3/2025 16:45	44505	HAMI_T2	0	0	0	0	0	0	-0.17	-0.1	0	0	0	0	0	0
3/3/2025 16:46	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 16:46	44502	HAMI_T2	1	1	0	3.5	3.6	0.1	0	0	0	0	0	0	0	0
3/3/2025 16:48	44502	HAMI_T2	1	1	0	3.5	3.6	0.1	0	0	0	0	0	0	0	0
3/3/2025 16:48	44505	HAMI_T2	0	0	0	0	0	0	-0.17	-0.1	0	0	0	0	0	0
3/3/2025 16:57	57103	SPHI_T2	0	0	0	0	0	0	-1.01	-1	1	1	0	600	600	0
3/3/2025 16:57	57104	SPHI_T2	1	2	1	3.4	3.2	-0.2	0	0	0	0	0	0	0	0
3/3/2025 16:57	57106	SPHI_T2	3	3	0	0.77	1.1	0.33	0	0	0	0	0	0	0	0
3/3/2025 17:00	11103	EGYP_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
3/3/2025 17:00	11104	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 17:07	41901	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 17:08	41901	REED_T1	0	1	1	0	0.2	0.2	-1.21	-1.27	1	1	0	900	900	0
3/3/2025 17:09	24902	WHHA_T1	68	26	-42	0.71	0.5	-0.21	0	0	0	0	0	0	0	0
3/3/2025 17:09	24901	WHHA_T1	0	0	0	0	0	0	-0.75	-0.7	0	0	0	0	0	0
3/3/2025 17:16	44502	HAMI_T2	1	1	0	3.6	3.2	-0.4	0	0	0	0	0	0	0	0
3/3/2025 17:16	44505	HAMI_T2	0	0	0	0	0	0	-0.11	-0.2	0	0	0	0	0	0
3/3/2025 17:20	13302	ORVI_T2	314	322	8	0.49	0.52	0.03	0.2	0.19	0	0	0	0	0	0
3/3/2025 17:37	60301	TWVA_T2	0	0	0	0	0	0	-3.08	-3.03	2	2	0	1800	1800	0
3/3/2025 18:45	43401	BENT_T1	4	0	-4	0.25	0	-0.25	0	0	0	0	0	0	0	0
3/3/2025 18:45	43402	BENT_T1	0	1	1	0	0	0	-1.6	-1.59	2	2	0	1500	1500	0
3/3/2025 18:55	55002	NEWP_T1	3	4	1	0.5	0.63	0.13	0	0	0	0	0	0	0	0
3/3/2025 18:55	55001	NEWP_T1	0	0	0	0	0	0	-1.01	-0.35	1	0	-1	600	0	-600
3/3/2025 19:07	46302	ROHR_T1	4	1	-3	0.8	0	-0.8	0.22	0.22	0	0	0	0	0	0
3/3/2025 19:07	46301	ROHR_T1	2	2	0	1.9	2.05	0.15	0	0	0	0	0	0	0	0
3/3/2025 19:26	24902	WHHA_T1	7	7	0	0.59	0.9	0.31	0.2	0.17	0	0	0	0	0	0
3/3/2025 19:28	43402	BENT_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	900	900	0
3/3/2025 19:32	56501	ROCK_T2	0	0	0	0	0	0	-1.04	-0.99	0	0	0	0	0	0
3/3/2025 19:35	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 19:37	52403	GRPA_T2	0	1	1	0	0.4	0.4	-1.01	-1	0	0	0	0	0	0
3/3/2025 19:37	52402	GRPA_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/3/2025 19:42	66505	SMAN_T2	3	3	0	0.57	0.83	0.26	0	0	0	0	0	0	0	0
3/3/2025 19:42	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 19:53	57401	SPAN_T1	0	0	0	0	0	0	-4.01	-4.11	3	3	0	1800	1800	0
3/3/2025 19:53	57403	SPAN_T1	1	2	1	0.1	0	-0.1	0.13	0.13	0	0	0	0	0	0
3/3/2025 19:56	57403	SPAN_T1	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/3/2025 19:56	57401	SPAN_T1	0	0	0	0	0	0	-1.34	-1.37	1	1	0	600	600	0
3/3/2025 19:57	40501	CRES_T2	5	9	4	0.16	0.24	0.08	0	0	0	0	0	0	0	0
3/3/2025 19:57	40502	CRES_T2	7	14	7	0.13	0.24	0.11	0	0	0	0	0	0	0	0
3/3/2025 19:58	57401	SPAN_T1	0	0	0	0	0	0	-1.34	-1.37	1	1	0	600	600	0
3/3/2025 19:58	43304	WATS_T2	1	3	2	0.5	0.2	-0.3	-0.72	-0.75	1	1	0	600	600	0
3/3/2025 19:58	57403	SPAN_T1	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/3/2025 19:59	16902	MECK_T1	0	12	12	0	0.24	0.24	0.17	-1.12	0	0	0	0	0	0
3/3/2025 19:59	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
3/3/2025 19:59	45902	AUBU_T1	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/3/2025 19:59	67002	STHI_T2	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
3/3/2025 20:00	12301	LANA_T2	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
3/3/2025 20:00	20601	GRWO_T2	2	2	0	1.75	1.5	-0.25	0	0	0	0	0	0	0	0
3/3/2025 20:00	11901	ETEX_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
3/3/2025 20:00	17805	GILB_T2	0	0	0	0	0	0	-0.78	-0.85	0	0	0	0	0	0
3/3/2025 20:00	20603	GRWO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 20:00	13303	ORVI_T1	0	0	0	0	0	0	0.8	0.81	0	0	0	0	0	0
3/3/2025 20:01	67603	WARW_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
3/3/2025 20:02	43801	SWIL_T1	2	2	0	3.15	3.3	0.15	0	0	0	0	0	0	0	0
3/3/2025 20:02	46001	BERW_T1	1	0	-1	0.4	0	-0.4	0.76	0.79	0	0	0	0	0	0
3/3/2025 20:02	11904	ETEX_T2	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
3/3/2025 20:02	40505	CRES_T1	0	0	0	0	0	0	0.36	0.33	0	0	0	0	0	0
3/3/2025 20:02	57106	SPHI_T2	3	3	0	1	1.13	0.13	0	0	0	0	0	0	0	0
3/3/2025 20:02	14802	TREI_T2	8	1	-7	0.75	0	-0.75	0.53	0.53	0	0	0	0	0	0
3/3/2025 20:02	10801	CHHI_T1	18	13	-5	0.37	0.35	-0.02	-2.04	-2.07	3	3	0	2100	2100	0
3/3/2025 20:02	67001	STHI_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
3/3/2025 20:02	43802	SWIL_T1	0	0	0	0	0	0	-0.16	-0.16	1	1	0	600	600	0
3/3/2025 20:02	57104	SPHI_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
3/3/2025 20:02	57101	SPHI_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
3/3/2025 20:02	14801	TREI_T2	0	0	0	0	0	0	0.64	0.65	0	0	0	0	0	0
3/3/2025 20:03	25801	SUTR_T2	2	2	0	9	8.85	-0.15	0	0.03	0	0	0	0	0	0
3/3/2025 20:03	40501	CRES_T2	9	12	3	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
3/3/2025 20:03	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:03	41901	REED_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
3/3/2025 20:03	40504	CRES_T1	0	0	0	0	0	0	-0.44	-0.41	0	0	0	0	0	0
3/3/2025 20:03	64204	KINZ_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
3/3/2025 20:03	61303	EARL_T1	0	0	0	0	0	0	0.42	0.4	0	0	0	0	0	0
3/3/2025 20:03	52004	LING_T2	2	2	0	3.7	3.95	0.25	0.08	0.08	0	0	0	0	0	0
3/3/2025 20:03	64203	KINZ_T1	0	0	0	0	0	0	-0.99	-0.38	2	1	-1	900	600	-300
3/3/2025 20:03	21901	HUMB_T1	0	0	0	0	0	0	-3.26	-3.27	0	0	0	0	0	0
3/3/2025 20:03	54203	PENN_T1	18	18	0	0.29	0.54	0.25	0	0	0	0	0	0	0	0
3/3/2025 20:03	40603	PIGR_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
3/3/2025 20:03	17802	GILB_T1	0	1	1	0	0	0	0.08	0.05	0	0	0	0	0	0
3/3/2025 20:03	44201	POIN_T1	121	133	12	0.28	0.33	0.05	-2.06	-2.02	2	2	0	2100	2100	0
3/3/2025 20:03	45701	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:03	25402	LAHA_T2	6	13	7	1.7	1.04	-0.66	-0.7	-0.7	0	0	0	0	0	0
3/3/2025 20:03	45702	LIND_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
3/3/2025 20:03	63501	HEID_TBK1-2	15	22	7	0.13	0.18	0.05	-0.55	-0.54	1	1	0	900	900	0
3/3/2025 20:03	17805	GILB_T2	0	0	0	0	0	0	-0.78	-0.85	0	0	0	0	0	0
3/3/2025 20:03	41902	REED_T1	5	9	4	0.16	0.43	0.27	0	0	0	0	0	0	0	0
3/3/2025 20:03	67603	WARW_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
3/3/2025 20:03	40502	CRES_T2	9	15	6	0.17	0.23	0.06	0.06	0.08	0	0	0	0	0	0
3/3/2025 20:03	46002	BERW_T2	0	0	0	0	0	0	-1.09	-1.14	1	1	0	900	900	0
3/3/2025 20:03	54201	PENN_T1	5	7	2	0.92	0.7	-0.22	-1.44	-1.42	0	0	0	0	0	0
3/3/2025 20:04	57106	SPHI_T2	3	3	0	1	1.13	0.13	0	0	0	0	0	0	0	0
3/3/2025 20:04	40603	PIGR_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
3/3/2025 20:04	11904	ETEX_T2	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
3/3/2025 20:04	57104	SPHI_T2	0	1	1	0	0.9	0.9	-3.6	-3.58	2	2	0	1800	1800	0
3/3/2025 20:04	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:04	67002	STHI_T2	0	0	0	0	0	0	1.56	1.56	0	0	0	0	0	0
3/3/2025 20:04	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:04	17802	GILB_T1	0	1	1	0	0	0	0.08	0.05	0	0	0	0	0	0
3/3/2025 20:04	60801	BUCK_T1	0	0	0	0	0	0	-0.9	-0.87	1	1	0	600	600	0
3/3/2025 20:04	44502	HAMI_T2	1	1	0	2.9	3.1	0.2	0.03	0.03	0	0	0	0	0	0
3/3/2025 20:04	61304	EARL_T1	0	0	0	0	0	0	-0.26	-0.19	0	0	0	0	0	0
3/3/2025 20:04	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:04	61306	EARL_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/3/2025 20:04	60301	TWVA_T2	0	0	0	0	0	0	-3.06	-3.12	2	2	0	1800	1800	0
3/3/2025 20:04	20603	GRWO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 20:04	41602	CLEV_T1	15	4	-11	0.47	0.1	-0.37	0	0	1	1	0	600	600	0
3/3/2025 20:04	20601	GRWO_T2	2	2	0	1.75	1.5	-0.25	0	0	0	0	0	0	0	0
3/3/2025 20:04	66505	SMAN_T2	3	3	0	0.77	0.77	0	0	0	0	0	0	0	0	0
3/3/2025 20:05	54201	PENN_T1	5	7	2	0.92	0.7	-0.22	-1.44	-1.42	0	0	0	0	0	0
3/3/2025 20:05	57103	SPHI_T2	0	0	0	0	0	0	-0.92	-0.91	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/3/2025 20:05	54504	ENOL_T2	0	0	0	0	0	0	-1.01	-1.01	1	1	0	600	600	0
3/3/2025 20:05	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:05	46001	BERW_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/3/2025 20:05	66505	SMAN_T2	3	3	0	0.77	0.77	0	0	0	0	0	0	0	0	0
3/3/2025 20:05	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:05	66504	SMAN_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
3/3/2025 20:05	44901	SCOT_T2	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
3/3/2025 20:05	57104	SPHI_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
3/3/2025 20:05	67602	WARW_T2	1	0	-1	0.2	0	-0.2	0.38	0.24	1	1	0	300	300	0
3/3/2025 20:05	45501	DERR_T2	5	7	2	0.46	0.47	0.01	0.71	0.7	4	4	0	3600	3600	0
3/3/2025 20:05	57106	SPHI_T2	3	3	0	1	1.13	0.13	0	0	0	0	0	0	0	0
3/3/2025 20:05	23401	HONE_T2	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
3/3/2025 20:05	54203	PENN_T1	18	18	0	0.29	0.54	0.25	0	0	0	0	0	0	0	0
3/3/2025 20:05	45502	DERR_T2	7	21	14	0.79	0.64	-0.15	0	0	0	0	0	0	0	0
3/3/2025 20:06	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:06	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:06	40502	CRES_T2	9	15	6	0.17	0.23	0.06	0	0	0	0	0	0	0	0
3/3/2025 20:06	24902	WHHA_T1	4	7	3	0.98	0.7	-0.28	0.38	0.4	0	0	0	0	0	0
3/3/2025 20:06	44904	SCOT_T1	0	0	0	0	0	0	-0.31	-0.29	0	0	0	0	0	0
3/3/2025 20:06	45501	DERR_T2	5	7	2	0.46	0.47	0.01	0.35	0.3	2	2	0	1800	1800	0
3/3/2025 20:06	63804	HEMP_T1	1	1	0	6.4	5.8	-0.6	0	0	0	0	0	0	0	0
3/3/2025 20:06	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
3/3/2025 20:06	52404	GRPA_T2	0	0	0	0	0	0	-0.26	-0.24	0	0	0	0	0	0
3/3/2025 20:06	44502	HAMI_T2	1	1	0	2.9	3.1	0.2	0.03	0.03	0	0	0	0	0	0
3/3/2025 20:06	40501	CRES_T2	9	12	3	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
3/3/2025 20:06	55002	NEWP_T1	4	3	-1	0.6	0.67	0.07	0	0	0	0	0	0	0	0
3/3/2025 20:06	67602	WARW_T2	1	0	-1	0.2	0	-0.2	0.24	0.21	1	1	0	300	300	0
3/3/2025 20:06	61506	EPET_T2	0	0	0	0	0	0	-2.03	-2	2	2	0	1800	1800	0
3/3/2025 20:06	24901	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:06	10801	CHHI_T1	18	13	-5	0.37	0.35	-0.02	-4.08	-4.14	6	6	0	4200	4200	0
3/3/2025 20:06	55001	NEWP_T1	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
3/3/2025 20:06	52403	GRPA_T2	1	4	3	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/3/2025 20:06	52402	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 20:06	45502	DERR_T2	7	21	14	0.79	0.64	-0.15	0	0	0	0	0	0	0	0
3/3/2025 20:06	63802	HEMP_T1	0	0	0	0	0	0	0.16	0.23	0	0	0	0	0	0
3/3/2025 20:07	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:07	61301	EARL_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
3/3/2025 20:07	42902	MIDD_T2	23	3	-20	0.67	0	-0.67	-0.35	-0.35	0	0	0	0	0	0
3/3/2025 20:07	67402	WAKE_T2	0	0	0	0	0	0	-0.33	-0.33	1	1	0	600	600	0
3/3/2025 20:07	65901	SMIR_T2	1	1	0	8.7	9.2	0.5	-1.32	-1.3	1	1	0	900	900	0
3/3/2025 20:07	45701	LIND_T2	0	0	0	0	0	0	-1.64	-1.65	0	0	0	0	0	0
3/3/2025 20:07	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/3/2025 20:07	52004	LING_T2	2	2	0	3.7	3.95	0.25	0.08	0.09	0	0	0	0	0	0
3/3/2025 20:07	61703	ELIZ_T1	0	0	0	0	0	0	-2.73	-2.62	2	2	0	2100	2100	0
3/3/2025 20:07	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:07	43304	WATS_T2	3	1	-2	0.47	0	-0.47	-0.75	-0.76	1	1	0	600	600	0
3/3/2025 20:07	40703	FFLD_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
3/3/2025 20:07	24901	WHHA_T1	0	1	1	0	0	0	-0.74	-0.69	0	0	0	0	0	0
3/3/2025 20:07	46203	DANV_T2	18	20	2	0.41	0.39	-0.02	-2.11	-2.19	0	0	0	0	0	0
3/3/2025 20:07	65207	PRIN_T4	2	3	1	2.65	1.85	-0.8	0	0	0	0	0	0	0	0
3/3/2025 20:07	45702	LIND_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
3/3/2025 20:07	46206	DANV_T2	3	3	0	0.57	0.63	0.06	0	0	0	0	0	0	0	0
3/3/2025 20:07	65206	PRIN_T4	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
3/3/2025 20:07	67605	WARW_T1	0	0	0	0	0	0	-1.2	-1.16	0	0	0	0	0	0
3/3/2025 20:07	46004	BERW_T2	1	2	1	0.1	0.1	0	-0.49	-0.47	0	0	0	0	0	0
3/3/2025 20:07	40505	CRES_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
3/3/2025 20:07	67001	STHI_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
3/3/2025 20:07	61306	EARL_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
3/3/2025 20:07	60801	BUCK_T1	0	0	0	0	0	0	-0.87	-0.89	1	1	0	600	600	0
3/3/2025 20:07	61701	ELIZ_T1	1	1	0	4	4.4	0.4	0	0	0	0	0	0	0	0
3/3/2025 20:07	24902	WHHA_T1	4	7	3	0.98	0.7	-0.28	0	0	0	0	0	0	0	0
3/3/2025 20:08	46206	DANV_T2	3	3	0	0.57	0.63	0.06	0	0	0	0	0	0	0	0
3/3/2025 20:08	65603	QVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:08	45502	DERR_T2	7	21	14	0.79	0.64	-0.15	0	0	0	0	0	0	0	0
3/3/2025 20:08	44502	HAMI_T2	1	1	0	2.9	3.1	0.2	0	0	0	0	0	0	0	0
3/3/2025 20:08	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:08	61306	EARL_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
3/3/2025 20:08	40505	CRES_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
3/3/2025 20:08	42903	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:08	52403	GRPA_T2	1	4	3	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/3/2025 20:08	40603	PIGR_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
3/3/2025 20:08	44505	HAMI_T2	0	0	0	0	0	0	-0.04	-0.01	0	0	0	0	0	0
3/3/2025 20:08	52404	GRPA_T2	0	0	0	0	0	0	-0.24	-0.23	0	0	0	0	0	0
3/3/2025 20:08	61301	EARL_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
3/3/2025 20:08	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:08	46802	HEPB_T1	1	1	0	1.4	1.5	0.1	-1.2	-1.21	0	0	0	0	0	0
3/3/2025 20:08	55101	WERT_T1	0	0	0	0	0	0	-1.98	-2	2	2	0	1500	1500	0
3/3/2025 20:08	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:08	41602	CLEV_T1	15	4	-11	0.47	0.1	-0.37	0	0	0	0	0	0	0	0
3/3/2025 20:08	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:08	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:08	43801	SWIL_T1	2	2	0	3.15	3.3	0.15	0	0	0	0	0	0	0	0
3/3/2025 20:08	51202	MTON_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:08	40504	CRES_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
3/3/2025 20:08	47001	HUGH_T2	3	3	0	5.8	6.83	1.03	-1.62	-1.62	1	1	0	900	900	0
3/3/2025 20:08	67402	WAKE_T2	0	0	0	0	0	0	-0.33	-0.33	1	1	0	600	600	0
3/3/2025 20:08	47002	HUGH_T2	3	4	1	1	0.83	-0.17	0	0	0	0	0	0	0	0
3/3/2025 20:08	40101	HUNT_T2	0	0	0	0	0	0	-1.37	-1.37	0	0	0	0	0	0
3/3/2025 20:08	52402	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 20:08	65205	PRIN_T1	2	1	-1	4.7	0.9	-3.8	0	0	0	0	0	0	0	0
3/3/2025 20:08	13302	ORVI_T2	205	237	32	0.34	0.41	0.07	0.44	0.38	0	0	0	0	0	0
3/3/2025 20:08	45501	DERR_T2	5	7	2	0.46	0.47	0.01	0.35	0.3	2	2	0	1800	1800	0
3/3/2025 20:08	42902	MIDD_T2	23	3	-20	0.67	0	-0.67	0	0	0	0	0	0	0	0
3/3/2025 20:08	41801	GOCI_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:08	44902	SCOT_T2	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
3/3/2025 20:08	43304	WATS_T2	3	1	-2	0.47	0	-0.47	-1.49	-1.52	2	2	0	1200	1200	0
3/3/2025 20:08	61304	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:08	51101	CARL_T1	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
3/3/2025 20:08	67001	STHI_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
3/3/2025 20:08	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:08	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
3/3/2025 20:08	55002	NEWP_T1	4	3	-1	0.6	0.67	0.07	-0.23	-0.24	0	0	0	0	0	0
3/3/2025 20:08	46001	BERW_T1	1	0	-1	0.4	0	-0.4	0.79	0.79	0	0	0	0	0	0
3/3/2025 20:08	44904	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:08	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:08	42601	TUSC_T1	47	38	-9	1.21	1.13	-0.08	-0.19	-0.31	2	2	0	1800	1800	0
3/3/2025 20:08	46203	DANV_T2	18	20	2	0.41	0.39	-0.02	-2.11	-2.19	0	0	0	0	0	0
3/3/2025 20:08	46801	HEPB_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/3/2025 20:08	60801	BUCK_T1	0	0	0	0	0	0	-0.87	-0.89	1	1	0	600	600	0
3/3/2025 20:08	22602	KIMB_T1	0	1	1	0	0.1	0.1	0.24	0.26	0	0	0	0	0	0
3/3/2025 20:08	46803	HEPB_T2	0	0	0	0	0	0	0.46	0.5	0	0	0	0	0	0
3/3/2025 20:09	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:09	40504	CRES_T1	0	0	0	0	0	0	-0.41	-0.42	0	0	0	0	0	0
3/3/2025 20:09	61703	ELIZ_T1	0	0	0	0	0	0	-5.47	-5.24	4	4	0	4200	4200	0
3/3/2025 20:09	67402	WAKE_T2	0	0	0	0	0	0	-0.33	-0.33	1	1	0	600	600	0
3/3/2025 20:09	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:09	57106	SPHI_T2	3	3	0	1	1.13	0.13	0	0	0	0	0	0	0	0
3/3/2025 20:09	41602	CLEV_T1	15	4	-11	0.47	0.1	-0.37	0	0	0	0	0	0	0	0
3/3/2025 20:09	40505	CRES_T1	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
3/3/2025 20:09	52403	GRPA_T2	1	4	3	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/3/2025 20:09	67605	WARW_T1	0	0	0	0	0	0	-1.2	-1.16	0	0	0	0	0	0
3/3/2025 20:09	46004	BERW_T2	1	2	1	0.1	0.1	0	-0.49	-0.47	0	0	0	0	0	0
3/3/2025 20:09	52402	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 20:09	65702	RVIL_T2	0	0	0	0	0	0	-1.58	-1.58	1	1	0	600	600	0
3/3/2025 20:09	55001	NEWP_T1	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
3/3/2025 20:09	61304	EARL_T1	0	0	0	0	0	0	-0.39	-0.52	0	0	0	0	0	0
3/3/2025 20:09	55002	NEWP_T1	4	3	-1	0.6	0.67	0.07	-0.23	-0.24	0	0	0	0	0	0
3/3/2025 20:09	40601	PIGR_T1	0	0	0	0	0	0	-0.77	-0.84	0	0	0	0	0	0
3/3/2025 20:09	57104	SPHI_T2	0	1	1	0	0.9	0.9	-1.79	-1.81	1	1	0	900	900	0
3/3/2025 20:09	66505	SMAN_T2	3	3	0	0.77	0.77	0	-0.55	-0.54	1	1	0	900	900	0
3/3/2025 20:09	54505	ENOL_T2	0	0	0	0	0	0	-0.65	-0.64	1	1	0	600	600	0
3/3/2025 20:09	40603	PIGR_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
3/3/2025 20:09	44505	HAMI_T2	0	0	0	0	0	0	-0.08	-0.01	0	0	0	0	0	0
3/3/2025 20:09	52401	GRPA_T2	0	0	0	0	0	0	-1.11	-1.08	0	0	0	0	0	0
3/3/2025 20:09	61701	ELIZ_T1	1	1	0	4	4.4	0.4	0	0	0	0	0	0	0	0
3/3/2025 20:09	43304	WATS_T2	3	1	-2	0.47	0	-0.47	-0.75	-0.76	1	1	0	600	600	0
3/3/2025 20:09	44502	HAMI_T2	1	1	0	2.9	3.1	0.2	0	0	0	0	0	0	0	0
3/3/2025 20:09	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:10	57002	WHHI_T2	0	0	0	0	0	0	-2.53	-2.54	1	1	0	1200	1200	0
3/3/2025 20:10	14802	TREI_T2	8	1	-7	0.75	0	-0.75	0.53	0.54	0	0	0	0	0	0
3/3/2025 20:10	40601	PIGR_T1	0	0	0	0	0	0	-0.77	-0.84	0	0	0	0	0	0
3/3/2025 20:10	63501	HEID_TBK1-2	15	22	7	0.13	0.18	0.05	-0.54	-0.56	1	1	0	900	900	0
3/3/2025 20:10	11901	ETEX_T2	0	0	0	0	0	0	0.3	0.31	0	0	0	0	0	0
3/3/2025 20:10	11302	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:10	12202	FOGE_T2	0	0	0	0	0	0	-0.38	-0.37	1	1	0	600	600	0
3/3/2025 20:10	55001	NEWP_T1	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
3/3/2025 20:10	42902	MIDD_T2	23	3	-20	0.67	0	-0.67	-0.7	-0.69	0	0	0	0	0	0
3/3/2025 20:10	51604	DUKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:10	46802	HEPB_T1	1	1	0	1.4	1.5	0.1	-1.2	-1.21	0	0	0	0	0	0
3/3/2025 20:10	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:10	41001	LAUR_T2	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
3/3/2025 20:10	41002	LAUR_T2	4	3	-1	0.68	1	0.32	0	0	0	0	0	0	0	0
3/3/2025 20:10	55002	NEWP_T1	4	3	-1	0.6	0.67	0.07	-0.23	-0.24	0	0	0	0	0	0
3/3/2025 20:10	67605	WARW_T1	0	0	0	0	0	0	-1.2	-1.16	0	0	0	0	0	0
3/3/2025 20:10	10801	CHHI_T1	18	13	-5	0.37	0.35	-0.02	-2.07	-2.06	3	3	0	2100	2100	0
3/3/2025 20:10	40603	PIGR_T1	0	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0
3/3/2025 20:10	54505	ENOL_T2	0	0	0	0	0	0	-1.3	-1.28	2	2	0	1200	1200	0
3/3/2025 20:10	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:10	43304	WATS_T2	3	1	-2	0.47	0	-0.47	-1.49	-1.52	2	2	0	1200	1200	0
3/3/2025 20:11	67602	WARW_T2	1	0	-1	0.2	0	-0.2	0.48	0.42	2	2	0	600	600	0
3/3/2025 20:11	55002	NEWP_T1	4	3	-1	0.6	0.67	0.07	-0.23	-0.24	0	0	0	0	0	0
3/3/2025 20:11	41902	REED_T1	5	9	4	0.16	0.43	0.27	0	0	0	0	0	0	0	0
3/3/2025 20:11	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/3/2025 20:11	52402	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 20:11	52501	PROG_T1	0	0	0	0	0	0	0.18	0.16	1	1	0	300	300	0
3/3/2025 20:11	47403	PENS_T1	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
3/3/2025 20:11	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:11	46203	DANV_T2	18	20	2	0.41	0.39	-0.02	-4.22	-4.38	0	0	0	0	0	0
3/3/2025 20:11	20601	GRWO_T2	2	2	0	1.75	1.5	-0.25	0	0.02	0	0	0	0	0	0
3/3/2025 20:11	46206	DANV_T2	3	3	0	0.57	0.63	0.06	0	0	0	0	0	0	0	0
3/3/2025 20:11	40902	JESH_T1	0	0	0	0	0	0	-1.41	-1.42	1	1	0	600	600	0
3/3/2025 20:11	20603	GRWO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 20:11	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:11	42902	MIDD_T2	23	3	-20	0.67	0	-0.67	-0.35	-0.35	0	0	0	0	0	0
3/3/2025 20:11	52401	GRPA_T2	0	0	0	0	0	0	-1.11	-1.08	0	0	0	0	0	0
3/3/2025 20:11	41901	REED_T1	1	0	-1	0.9	0	-0.9	-1.36	-1.47	1	1	0	900	900	0
3/3/2025 20:11	58401	MORO_T1	0	0	0	0	0	0	-1.09	-1.11	1	1	0	600	600	0
3/3/2025 20:11	41602	CLEV_T1	15	4	-11	0.47	0.1	-0.37	0	0	0	0	0	0	0	0
3/3/2025 20:11	67203	TEHI_T1	0	0	0	0	0	0	2.58	2.66	2	2	0	1500	1500	0
3/3/2025 20:11	52403	GRPA_T2	1	4	3	0.5	0.1	-0.4	-1.01	-1	0	0	0	0	0	0
3/3/2025 20:11	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:11	54503	ENOL_T2	0	0	0	0	0	0	-1.03	-1.06	1	1	0	600	600	0
3/3/2025 20:11	40901	JESH_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/3/2025 20:11	43304	WATS_T2	3	1	-2	0.47	0	-0.47	-1.49	-1.52	2	2	0	1200	1200	0
3/3/2025 20:11	44502	HAMI_T2	1	1	0	2.9	3.1	0.2	0	0	0	0	0	0	0	0
3/3/2025 20:11	47401	PENS_T1	0	0	0	0	0	0	0.66	0.63	0	0	0	0	0	0
3/3/2025 20:12	14802	TREI_T2	8	1	-7	0.75	0	-0.75	0.53	0.54	0	0	0	0	0	0
3/3/2025 20:12	43304	WATS_T2	3	1	-2	0.47	0	-0.47	-0.75	-0.76	1	1	0	600	600	0
3/3/2025 20:12	44902	SCOT_T2	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
3/3/2025 20:12	61301	EARL_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
3/3/2025 20:12	54201	PENN_T1	5	7	2	0.92	0.7	-0.22	0	0	0	0	0	0	0	0
3/3/2025 20:12	45502	DERR_T2	7	21	14	0.79	0.64	-0.15	0	0	0	0	0	0	0	0
3/3/2025 20:12	61701	ELIZ_T1	1	1	0	4	4.4	0.4	0	0	0	0	0	0	0	0
3/3/2025 20:12	40502	CRES_T2	9	15	6	0.17	0.23	0.06	0	0	0	0	0	0	0	0
3/3/2025 20:12	67605	WARW_T1	0	0	0	0	0	0	-1.2	-1.16	0	0	0	0	0	0
3/3/2025 20:12	67605	WARW_T1	0	0	0	0	0	0	-1.2	-1.16	0	0	0	0	0	0
3/3/2025 20:12	67605	WARW_T1	0	0	0	0	0	0	-1.2	-1.16	0	0	0	0	0	0
3/3/2025 20:12	67605	WARW_T1	0	0	0	0	0	0	-1.2	-1.16	0	0	0	0	0	0
3/3/2025 20:12	62102	ELAN_T1	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0
3/3/2025 20:12	61703	ELIZ_T1	0	0	0	0	0	0	-2.73	-2.62	2	2	0	2100	2100	0
3/3/2025 20:12	45702	LIND_T2	1	1	0	1	0.7	-0.3	-1.16	-1.09	0	0	0	0	0	0
3/3/2025 20:12	46801	HEPB_T2	2	2	0	0.2	0.25	0.05	0.57	0.57	0	0	0	0	0	0
3/3/2025 20:12	54203	PENN_T1	18	18	0	0.29	0.54	0.25	-0.09	-0.1	0	0	0	0	0	0
3/3/2025 20:12	52502	PROG_T2	0	0	0	0	0	0	-0.45	-0.45	1	1	0	900	900	0
3/3/2025 20:12	58102	NEKI_T1	0	1	1	0	0.2	0.2	-1.14	-1.11	1	1	0	1200	1200	0
3/3/2025 20:12	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
3/3/2025 20:12	45501	DERR_T2	5	7	2	0.46	0.47	0.01	0.35	0.3	2	2	0	1800	1800	0
3/3/2025 20:12	52501	PROG_T1	0	0	0	0	0	0	0.18	0.16	1	1	0	300	300	0
3/3/2025 20:12	40501	CRES_T2	9	12	3	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
3/3/2025 20:12	62104	ELAN_T1	0	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0
3/3/2025 20:13	60801	BUCK_T1	0	0	0	0	0	0	-0.87	-0.89	1	1	0	600	600	0
3/3/2025 20:13	57103	SPHI_T2	0	0	0	0	0	0	-0.91	-0.86	1	1	0	600	600	0
3/3/2025 20:13	40505	CRES_T1	0	0	0	0	0	0	0.66	0.68	0	0	0	0	0	0
3/3/2025 20:13	46801	HEPB_T2	2	2	0	0.2	0.25	0.05	0.57	0.57	0	0	0	0	0	0
3/3/2025 20:13	55101	WERT_T1	0	0	0	0	0	0	-1.98	-2	2	2	0	1500	1500	0
3/3/2025 20:13	63501	HEID_TBK1-2	15	22	7	0.13	0.18	0.05	-0.54	-0.56	1	1	0	900	900	0
3/3/2025 20:13	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:13	42902	MIDD_T2	23	3	-20	0.67	0	-0.67	-0.7	-0.69	0	0	0	0	0	0
3/3/2025 20:13	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
3/3/2025 20:13	57104	SPHI_T2	0	1	1	0	0.9	0.9	-1.79	-1.81	1	1	0	900	900	0
3/3/2025 20:13	61803	EELI_T2	0	0	0	0	0	0	0.01	0.02	1	1	0	600	600	0
3/3/2025 20:13	46004	BERW_T2	1	2	1	0.1	0.1	0	-0.49	-0.47	0	0	0	0	0	0
3/3/2025 20:13	46001	BERW_T1	1	0	-1	0.4	0	-0.4	0.79	0.79	0	0	0	0	0	0
3/3/2025 20:13	58402	MORO_T1	0	0	0	0	0	0	-0.55	-0.55	3	3	0	1950	1950	0
3/3/2025 20:13	52502	PROG_T2	0	0	0	0	0	0	-0.9	-0.9	2	2	0	1800	1800	0
3/3/2025 20:13	41602	CLEV_T1	15	4	-11	0.47	0.1	-0.37	0	0	1	1	0	600	600	0
3/3/2025 20:13	20603	GRWO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 20:13	55002	NEWP_T1	4	3	-1	0.6	0.67	0.07	-0.23	-0.24	0	0	0	0	0	0
3/3/2025 20:13	20601	GRWO_T2	2	2	0	1.75	1.5	-0.25	0	0.02	0	0	0	0	0	0
3/3/2025 20:13	57106	SPHI_T2	3	3	0	1	1.13	0.13	0	0	0	0	0	0	0	0
3/3/2025 20:13	41901	REED_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
3/3/2025 20:13	41902	REED_T1	5	9	4	0.16	0.43	0.27	0.24	0.24	0	0	0	0	0	0
3/3/2025 20:13	17002	RIRO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:13	67605	WARW_T1	0	0	0	0	0	0	-1.2	-1.16	0	0	0	0	0	0
3/3/2025 20:13	61304	EARL_T1	0	0	0	0	0	0	-0.19	-0.26	0	0	0	0	0	0
3/3/2025 20:14	66505	SMAN_T2	3	3	0	0.77	0.77	0	0	0	0	0	0	0	0	0
3/3/2025 20:14	61801	EELI_T2	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
3/3/2025 20:14	11101	EGYP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:14	64204	KINZ_T1	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
3/3/2025 20:14	61703	ELIZ_T1	0	0	0	0	0	0	-2.73	-2.62	2	2	0	2100	2100	0
3/3/2025 20:14	52403	GRPA_T2	1	4	3	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/3/2025 20:14	44201	POIN_T1	121	133	12	0.28	0.33	0.05	-2.02	-1.97	2	2	0	2100	2100	0
3/3/2025 20:14	63501	HEID_TBK1-2	15	22	7	0.13	0.18	0.05	-0.54	-0.56	1	1	0	900	900	0
3/3/2025 20:14	11104	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:14	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:14	61701	ELIZ_T1	1	1	0	4	4.4	0.4	0	0	0	0	0	0	0	0
3/3/2025 20:14	55002	NEWP_T1	4	3	-1	0.6	0.67	0.07	0	0	0	0	0	0	0	0
3/3/2025 20:14	20601	GRWO_T2	2	2	0	1.75	1.5	-0.25	0	0	0	0	0	0	0	0
3/3/2025 20:14	52502	PROG_T2	0	0	0	0	0	0	-0.45	-0.45	1	1	0	900	900	0
3/3/2025 20:14	67002	STHI_T2	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
3/3/2025 20:14	14802	TREI_T2	8	1	-7	0.75	0	-0.75	0.53	0.54	0	0	0	0	0	0
3/3/2025 20:14	57201	ROSS_T1	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
3/3/2025 20:14	66504	SMAN_T2	0	0	0	0	0	0	-0.39	-0.44	0	0	0	0	0	0
3/3/2025 20:14	44502	HAMI_T2	1	1	0	2.9	3.1	0.2	0.03	0.03	0	0	0	0	0	0
3/3/2025 20:14	52402	GRPA_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/3/2025 20:14	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:14	64203	KINZ_T1	0	0	0	0	0	0	-0.38	-0.38	1	1	0	600	600	0
3/3/2025 20:14	61304	EARL_T1	0	0	0	0	0	0	-0.19	-0.26	0	0	0	0	0	0
3/3/2025 20:14	55001	NEWP_T1	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
3/3/2025 20:14	45702	LIND_T2	1	1	0	1	0.7	-0.3	-1.16	-1.09	0	0	0	0	0	0
3/3/2025 20:14	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.04	0	0	0	0	0	0
3/3/2025 20:14	20603	GRWO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 20:14	51202	MTON_T2	0	0	0	0	0	0	-1.02	-1.02	1	1	0	1200	1200	0
3/3/2025 20:15	41902	REED_T1	5	7	2	0.56	0.6	0.04	0.24	0.24	0	0	0	0	0	0
3/3/2025 20:15	40701	FELD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:15	57106	SPHI_T2	3	3	0	1.13	1.17	0.04	0	0	0	0	0	0	0	0
3/3/2025 20:15	45502	DERR_T2	10	20	10	0.66	0.63	-0.03	0	0	0	0	0	0	0	0
3/3/2025 20:15	58201	NEWV_T1	1	1	0	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
3/3/2025 20:15	57104	SPHI_T2	1	1	0	0.9	7.2	6.3	0	0	0	0	0	0	0	0
3/3/2025 20:15	46001	BERW_T1	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
3/3/2025 20:15	52402	GRPA_T2	2	5	3	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
3/3/2025 20:15	45501	DERR_T2	7	3	-4	0.44	0.53	0.09	0.35	0.3	2	2	0	1800	1800	0
3/3/2025 20:15	55001	NEWP_T1	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
3/3/2025 20:15	52403	GRPA_T2	2	3	1	0.2	0.2	0	-1.01	-1	0	0	0	0	0	0
3/3/2025 20:15	57103	SPHI_T2	0	0	0	0	0	0	-0.91	-0.86	1	1	0	600	600	0
3/3/2025 20:15	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:15	55002	NEWP_T1	3	4	1	0.67	0.6	-0.07	0	0	0	0	0	0	0	0
3/3/2025 20:15	63501	HEID_TBK1-2	21	8	-13	0.18	0.11	-0.07	-0.54	-0.56	1	1	0	900	900	0
3/3/2025 20:15	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:15	52501	PROG_T1	0	0	0	0	0	0	0.18	0.16	1	1	0	300	300	0
3/3/2025 20:16	66504	SMAN_T2	0	0	0	0	0	0	-0.39	-0.44	0	0	0	0	0	0
3/3/2025 20:16	41902	REED_T1	5	7	2	0.56	0.6	0.04	0.24	0.24	0	0	0	0	0	0
3/3/2025 20:16	67805	WLAN_T1	0	7	7	0	0.26	0.26	-1.62	-1.54	0	0	0	0	0	0
3/3/2025 20:16	52403	GRPA_T2	2	3	1	0.2	0.2	0	-1.01	-1	0	0	0	0	0	0
3/3/2025 20:16	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:16	46204	DANV_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:16	66505	SMAN_T2	3	3	0	0.77	0.5	-0.27	0	0	0	0	0	0	0	0
3/3/2025 20:16	52502	PROG_T2	0	0	0	0	0	0	-0.45	-0.45	1	1	0	900	900	0
3/3/2025 20:16	44901	SCOT_T2	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
3/3/2025 20:16	67804	WLAN_T1	3	8	5	0.47	0.67	0.2	0	0	0	0	0	0	0	0
3/3/2025 20:16	58401	MORO_T1	0	0	0	0	0	0	-1.09	-1.11	1	1	0	600	600	0
3/3/2025 20:16	46203	DANV_T2	18	19	1	0.37	0.37	0	-2.11	-2.19	0	0	0	0	0	0
3/3/2025 20:16	67602	WARW_T2	0	0	0	0	0	0	0.24	0.21	1	1	0	300	300	0
3/3/2025 20:16	46206	DANV_T2	3	3	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
3/3/2025 20:16	52402	GRPA_T2	2	5	3	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
3/3/2025 20:17	46203	DANV_T2	18	19	1	0.37	0.37	0	-2.11	-2.19	0	0	0	0	0	0
3/3/2025 20:17	46901	MNTG_T2	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
3/3/2025 20:17	51201	MTON_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
3/3/2025 20:17	67402	WAKE_T2	0	0	0	0	0	0	-0.33	-0.33	1	1	0	600	600	0
3/3/2025 20:17	46206	DANV_T2	3	3	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
3/3/2025 20:17	53802	MBRG_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
3/3/2025 20:17	46204	DANV_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:18	45501	DERR_T2	7	3	-4	0.44	0.53	0.09	0.35	0.3	2	2	0	1800	1800	0
3/3/2025 20:18	51202	MTON_T2	0	0	0	0	0	0	-1.02	-1.02	1	1	0	1200	1200	0
3/3/2025 20:18	45502	DERR_T2	10	20	10	0.66	0.63	-0.03	0	0	0	0	0	0	0	0
3/3/2025 20:19	47203	FAXO_T2	1	0	-1	0.2	0	-0.2	-1.72	-1.72	1	1	0	1200	1200	0
3/3/2025 20:19	43304	WATS_T2	1	0	-1	0.2	0	-0.2	-0.75	-0.76	1	1	0	600	600	0
3/3/2025 20:19	55105	WERT_T1	0	0	0	0	0	0	-0.52	-0.53	1	1	0	900	900	0
3/3/2025 20:20	51202	MTON_T2	0	0	0	0	0	0	-1.02	-1.02	1	1	0	1200	1200	0
3/3/2025 20:20	52402	GRPA_T2	2	5	3	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
3/3/2025 20:20	52403	GRPA_T2	2	3	1	0.2	0.2	0	-1.01	-1	0	0	0	0	0	0
3/3/2025 20:21	55002	NEWP_T1	3	4	1	0.67	0.6	-0.07	0	0	0	0	0	0	0	0
3/3/2025 20:21	55001	NEWP_T1	0	0	0	0	0	0	-0.32	-0.34	0	0	0	0	0	0
3/3/2025 20:36	54502	ENOL_T2	0	0	0	0	0	0	-1.95	-1.94	1	1	0	600	600	0
3/3/2025 20:40	42903	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/3/2025 20:40	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 20:44	46801	HEPB_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
3/3/2025 20:53	67605	WARW_T1	0	0	0	0	0	0	-0.94	-1.02	0	0	0	0	0	0
3/3/2025 20:54	54203	PENN_T1	18	18	0	0.56	0.82	0.26	-0.1	-0.11	0	0	0	0	0	0
3/3/2025 20:54	54201	PENN_T1	6	23	17	0.93	0.45	-0.48	0	0	0	0	0	0	0	0
3/3/2025 20:59	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2025 21:03	52502	PROG_T2	0	0	0	0	0	0	-0.49	-0.49	1	1	0	900	900	0
3/3/2025 21:14	52501	PROG_T1	0	0	0	0	0	0	0.16	0.17	1	1	0	300	300	0
3/3/2025 21:21	44502	HAMI_T2	1	1	0	2.9	2.9	0	0.03	0.02	0	0	0	0	0	0
3/3/2025 21:31	52001	LING_T1	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
3/3/2025 21:33	52002	LING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/3/2025 21:33	52004	LING_T2	2	2	0	4	4.3	0.3	0.08	0.06	0	0	0	0	0	0
3/3/2025 21:34	52004	LING_T2	2	2	0	4	4.3	0.3	0.08	0.06	0	0	0	0	0	0
3/3/2025 21:34	52002	LING_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/3/2025 23:01	40902	JESH_T1	0	0	0	0	0	0	-1.53	-1.56	1	1	0	600	600	0
3/4/2025 0:01	40901	JESH_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 0:01	40902	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 7:26	14601	SWHI_T1	0	0	0	0	0	0	-1.43	-0.93	0	0	0	0	0	0
3/4/2025 7:26	14602	SWHI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/4/2025 8:04	55002	NEWP_T1	5	4	-1	0.8	0.58	-0.22	-0.16	-0.2	0	0	0	0	0	0
3/4/2025 8:04	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 8:16	63804	HEMP_T1	1	1	0	6.4	6.3	-0.1	0.82	0.85	0	0	0	0	0	0
3/4/2025 8:19	41901	REED_T1	7	9	2	0.27	0.21	-0.06	0	0	0	0	0	0	0	0
3/4/2025 8:19	41903	REED_T1	0	0	0	0	0	0	0.09	0.06	1	1	0	1200	1200	0
3/4/2025 8:22	57403	SPAN_T1	10	0	-10	0.17	0	-0.17	0.15	0.13	0	0	0	0	0	0
3/4/2025 8:22	57401	SPAN_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/4/2025 8:24	59101	WALK_T2	0	0	0	0	0	0	1.6	1.5	1	1	0	600	600	0
3/4/2025 8:26	46206	DANV_T2	1	2	1	0.7	0.1	-0.6	0	0	0	0	0	0	0	0
3/4/2025 8:26	46203	DANV_T2	50	107	57	0.39	0.54	0.15	-1.84	-1.7	0	0	0	0	0	0
3/4/2025 8:32	23401	HONE_T2	2	1	-1	0.45	0	-0.45	-0.04	-0.06	0	0	0	0	0	0
3/4/2025 8:36	43301	WATS_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
3/4/2025 8:37	57205	ROSS_T1	0	0	0	0	0	0	-1.65	-1.65	2	2	0	1800	1800	0
3/4/2025 8:40	43301	WATS_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
3/4/2025 8:43	46004	BERW_T2	0	1	1	0	0	0	-0.1	-0.07	0	0	0	0	0	0
3/4/2025 8:46	46901	MNTG_T2	0	0	0	0	0	0	1.28	1.25	0	0	0	0	0	0
3/4/2025 8:48	42902	MIDD_T2	0	0	0	0	0	0	-0.07	-1.73	0	2	2	0	1200	1200
3/4/2025 8:50	44902	SCOT_T2	198	293	95	0.17	0.22	0.05	-0.97	-0.95	0	0	0	0	0	0
3/4/2025 8:52	67402	WAKE_T2	0	0	0	0	0	0	0.49	0.47	1	1	0	600	600	0
3/4/2025 8:53	67401	WAKE_T2	0	0	0	0	0	0	-1.15	-1.11	0	0	0	0	0	0
3/4/2025 8:55	42701	AUGU_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/4/2025 8:55	67402	WAKE_T2	0	0	0	0	0	0	0.49	0.47	1	1	0	600	600	0
3/4/2025 8:56	10206	ALLE_T2	1	1	0	1	0.4	-0.6	0	0	0	0	0	0	0	0
3/4/2025 8:56	42701	AUGU_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/4/2025 8:56	10102	ALLE_T2	15	14	-1	1.62	1.69	0.07	0	0	0	0	0	0	0	0
3/4/2025 8:56	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 8:56	67401	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 9:00	44902	SCOT_T2	293	72	-221	0.22	0.13	-0.09	-0.95	-0.91	0	0	0	0	0	0
3/4/2025 9:00	13501	MCMI_T1	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
3/4/2025 9:00	53902	HALI_T2	1	1	0	5.8	5.2	-0.6	0	0	0	0	0	0	0	0
3/4/2025 9:00	67502	WEWI_T2	8	2	-6	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/4/2025 9:00	28102	WLA_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
3/4/2025 9:00	53903	HALI_T2	2	2	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
3/4/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.74	0.64	0	0	0	0	0	0
3/4/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
3/4/2025 9:00	53901	HALI_T2	5	1	-4	0.44	0.9	0.46	-1.42	-1.46	0	0	0	0	0	0
3/4/2025 9:00	43304	WATS_T2	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
3/4/2025 9:03	64902	MILL_T2	0	0	0	0	0	0	-0.7	-0.74	1	1	0	900	900	0
3/4/2025 9:05	64904	MILL_T1	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
3/4/2025 9:05	44901	SCOT_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
3/4/2025 9:05	44902	SCOT_T2	293	72	-221	0.22	0.13	-0.09	0	0	0	0	0	0	0	0
3/4/2025 9:08	44901	SCOT_T2	0	0	0	0	0	0	0.12	0.04	0	0	0	0	0	0
3/4/2025 9:08	44902	SCOT_T2	293	72	-221	0.22	0.13	-0.09	0	0	0	0	0	0	0	0
3/4/2025 9:09	57401	SPAN_T1	2	2	0	0.35	0.6	0.25	-2.12	-2.15	2	2	0	1200	1200	0
3/4/2025 9:09	57403	SPAN_T1	8	12	4	0.14	0.23	0.09	0	0	0	0	0	0	0	0
3/4/2025 9:10	45303	WBER_T2	10	16	6	1.19	1.02	-0.17	0	0	0	0	0	0	0	0
3/4/2025 9:10	45302	WBER_T2	50	78	28	0.32	0.34	0.02	0.89	0.89	0	0	0	0	0	0
3/4/2025 9:10	45301	WBER_T2	173	276	103	0.29	0.31	0.02	0	0	0	0	0	0	0	0
3/4/2025 9:11	47203	FAKO_T2	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
3/4/2025 9:11	59101	WALK_T2	0	0	0	0	0	0	1.71	2.52	1	0	-1	600	0	-600
3/4/2025 9:11	42701	AUGU_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/4/2025 9:14	54505	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 9:14	54506	ENOL_T2	0	1	1	0	0.2	0.2	-1.37	-1.3	1	1	0	600	600	0
3/4/2025 9:14	54502	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/4/2025 9:14	40802	EXCH_T2	0	0	0	0	0	0	-1.14	-0.67	0	0	0	0	0	0
3/4/2025 9:15	41202	KENM_T2	1	1	0	0.4	0.2	-0.2	-0.44	-0.46	0	0	0	0	0	0
3/4/2025 9:19	52502	PROG_T2	0	0	0	0	0	0	-0.46	-0.51	1	1	0	900	900	0
3/4/2025 9:20	44901	SCOT_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 9:20	58302	NOTT_T1	0	0	0	0	0	0	-1.3	-0.23	2	1	-1	2100	1200	-900
3/4/2025 9:20	65207	PRIN_T4	3	3	0	3.67	0.77	-2.9	0	0	0	0	0	0	0	0
3/4/2025 9:20	65201	PRIN_T4	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/4/2025 9:20	44902	SCOT_T2	52	442	390	0.11	0.3	0.19	-0.91	-0.96	0	0	0	0	0	0
3/4/2025 9:21	44902	SCOT_T2	52	442	390	0.11	0.3	0.19	-0.96	-0.97	0	0	0	0	0	0
3/4/2025 9:21	44901	SCOT_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 9:22	67605	WARW_T1	0	2	2	0	0.2	0.2	-0.98	-0.99	0	0	0	0	0	0
3/4/2025 9:23	40101	HUNT_T2	0	0	0	0	0	0	-0.94	-0.98	0	0	0	0	0	0
3/4/2025 9:23	44902	SCOT_T2	52	442	390	0.11	0.3	0.19	0	0	0	0	0	0	0	0
3/4/2025 9:23	44901	SCOT_T2	0	1	1	0	0.1	0.1	0.04	0.14	0	0	0	0	0	0
3/4/2025 9:24	15404	WALL_T1	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
3/4/2025 9:25	24902	WHHA_T1	8	10	2	1.15	0.8	-0.35	0.89	0.87	0	0	0	0	0	0
3/4/2025 9:25	24901	WHHA_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 9:29	61506	EPET_T2	0	0	0	0	0	0	-0.9	-0.87	1	1	0	900	900	0
3/4/2025 9:29	40502	CRES_T2	1	6	5	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/4/2025 9:29	52403	GRPA_T2	7	2	-5	0.44	0.35	-0.09	-0.45	-0.39	0	0	0	0	0	0
3/4/2025 9:29	52401	GRPA_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
3/4/2025 9:29	40501	CRES_T2	11	10	-1	0.37	0.28	-0.09	0	0	0	0	0	0	0	0
3/4/2025 9:29	52402	GRPA_T2	3	5	2	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
3/4/2025 9:32	20601	GRWO_T2	1	1	0	3.2	2.4	-0.8	0	0	0	0	0	0	0	0
3/4/2025 9:32	58102	NEKI_T1	1	1	0	0.4	0.6	0.2	0.29	0.28	0	0	0	0	0	0
3/4/2025 9:32	20603	GRWO_T2	0	1	1	0	0.1	0.1	-0.57	-0.6	1	1	0	900	900	0
3/4/2025 9:34	43202	MVIL_T2	5	34	29	0.14	0.21	0.07	-0.51	-0.53	0	0	0	0	0	0
3/4/2025 9:35	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 9:36	13302	ORVI_T2	0	0	0	0	0	0	1.35	1.44	0	0	0	0	0	0
3/4/2025 9:36	52502	PROG_T2	0	0	0	0	0	0	-0.51	-0.49	1	1	0	900	900	0
3/4/2025 9:39	65205	PRIN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 9:39	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 9:40	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 9:41	61304	EARL_T1	0	1	1	0	0.1	0.1	0.01	0.04	0	0	0	0	0	0
3/4/2025 9:41	61306	EARL_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/4/2025 9:42	11202	ELHE_T2	0	0	0	0	0	0	0.4	0.38	1	1	0	1200	1200	0
3/4/2025 9:42	61304	EARL_T1	0	1	1	0	0.1	0.1	0.01	0.04	0	0	0	0	0	0
3/4/2025 9:42	40504	CRES_T1	0	0	0	0	0	0	-0.9	-0.88	0	0	0	0	0	0
3/4/2025 9:43	61304	EARL_T1	0	1	1	0	0.1	0.1	0.02	0.12	0	0	0	0	0	0
3/4/2025 9:43	61301	EARL_T1	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
3/4/2025 9:43	61306	EARL_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/4/2025 9:44	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 9:46	52402	GRPA_T2	5	4	-1	0.36	0.65	0.29	0	0	0	0	0	0	0	0
3/4/2025 9:46	64204	KINZ_T1	12	2	-10	0.37	0.8	0.43	0	0	0	0	0	0	0	0
3/4/2025 9:46	64202	KINZ_T1	3	2	-1	0.63	0.15	-0.48	0	0	0	0	0	0	0	0
3/4/2025 9:46	64203	KINZ_T1	0	0	0	0	0	0	-0.13	0.14	2	2	0	1800	1800	0
3/4/2025 9:46	52401	GRPA_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
3/4/2025 9:46	52403	GRPA_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/4/2025 9:46	23401	HONE_T2	8	28	20	0.54	0.4	-0.14	-0.06	-0.03	0	0	0	0	0	0
3/4/2025 9:46	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 9:47	52401	GRPA_T2	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
3/4/2025 9:47	52403	GRPA_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/4/2025 9:47	52402	GRPA_T2	5	4	-1	0.36	0.65	0.29	0	0	0	0	0	0	0	0
3/4/2025 9:49	58201	NEWV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/4/2025 9:49	55002	NEWP_T1	2	4	2	0.1	0.4	0.3	-0.21	-0.22	0	0	0	0	0	0
3/4/2025 9:51	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 9:51	57205	ROSS_T1	1	1	0	0.5	1.3	0.8	0.21	0.18	0	0	0	0	0	0
3/4/2025 9:52	41902	REED_T1	0	0	0	0	0	0	0.48	0.59	0	0	0	0	0	0
3/4/2025 9:52	41901	REED_T1	7	8	1	0.43	0.48	0.05	0	0	0	0	0	0	0	0
3/4/2025 9:53	41902	REED_T1	0	0	0	0	0	0	0.24	0.29	0	0	0	0	0	0
3/4/2025 9:53	41901	REED_T1	7	8	1	0.43	0.48	0.05	0	0	0	0	0	0	0	0
3/4/2025 9:59	25402	LAHA_T2	0	0	0	0	0	0	-0.6	-0.5	0	0	0	0	0	0
3/4/2025 10:00	54501	ENOL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/4/2025 10:00	54503	ENOL_T2	0	0	0	0	0	0	-0.43	-0.42	1	1	0	600	600	0
3/4/2025 10:00	23401	HONE_T2	23	10	-13	0.35	0.35	0	-0.03	-0.07	0	0	0	0	0	0
3/4/2025 10:00	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 10:00	54502	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/4/2025 10:01	46901	MNTG_T2	0	0	0	0	0	0	1.29	1.34	0	0	0	0	0	0
3/4/2025 10:02	23401	HONE_T2	23	10	-13	0.35	0.35	0	-0.03	-0.07	0	0	0	0	0	0
3/4/2025 10:04	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:04	43202	MVIL_T2	33	48	15	0.21	0.31	0.1	-0.52	-0.51	0	0	0	0	0	0
3/4/2025 10:05	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 10:06	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 10:06	13501	MCMI_T1	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
3/4/2025 10:06	13503	MCMI_T2	0	0	0	0	0	0	0.18	0.22	0	0	0	0	0	0
3/4/2025 10:08	14802	TREI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 10:08	13501	MCMI_T1	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
3/4/2025 10:08	14801	TREI_T2	0	3	3	0	0.7	0.7	0.56	0.48	0	0	0	0	0	0
3/4/2025 10:08	13502	MCMI_T1	0	1	1	0	0.1	0.1	-0.15	-0.16	0	0	0	0	0	0
3/4/2025 10:12	67901	WNHO_T2	0	0	0	0	0	0	-0.65	-0.62	2	2	0	2100	2100	0
3/4/2025 10:12	10801	CHHI_T1	0	9	9	0	0.29	0.29	-2.03	-2.04	3	3	0	2100	2100	0
3/4/2025 10:14	63501	HEID_TBK1-2	0	0	0	0	0	0	0.37	0.48	3	3	0	2700	2700	0
3/4/2025 10:14	40505	CRES_T1	0	0	0	0	0	0	0.35	0.34	0	0	0	0	0	0
3/4/2025 10:15	47101	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:15	47104	MARL_T1	0	0	0	0	0	0	-2.19	-2.2	0	0	0	0	0	0
3/4/2025 10:15	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	0.12	0.16	1	1	0	900	900	0
3/4/2025 10:16	11203	ELHE_T1	0	0	0	0	0	0	0.86	0.88	0	0	0	0	0	0
3/4/2025 10:16	10805	CHHI_T2	1	4	3	7.7	2.1	-5.6	-1.56	-1.48	1	1	0	1200	1200	0
3/4/2025 10:19	22602	KIMB_T1	1	0	-1	0.2	0	-0.2	0.22	0.13	0	0	0	0	0	0
3/4/2025 10:19	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:20	55002	NEWP_T1	3	5	2	0.47	0.62	0.15	0	0	0	0	0	0	0	0
3/4/2025 10:20	46901	MNTG_T2	0	0	0	0	0	0	1.34	1.33	0	0	0	0	0	0
3/4/2025 10:20	55001	NEWP_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
3/4/2025 10:20	46903	MNTG_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/4/2025 10:21	55001	NEWP_T1	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
3/4/2025 10:21	55002	NEWP_T1	3	5	2	0.47	0.62	0.15	0	0	0	0	0	0	0	0
3/4/2025 10:21	67402	WAKE_T2	0	0	0	0	0	0	0.44	0.4	1	1	0	600	600	0
3/4/2025 10:23	24901	WHHA_T1	0	1	1	0	1.1	1.1	-0.78	-0.79	0	0	0	0	0	0
3/4/2025 10:23	24902	WHHA_T1	4	5	1	0.95	0.53	-0.42	0	0	0	0	0	0	0	0
3/4/2025 10:23	44901	SCOT_T2	10	67	57	0.28	0.19	-0.09	0.11	0.03	0	0	0	0	0	0
3/4/2025 10:23	44902	SCOT_T2	254	648	394	0.2	0.45	0.25	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/4/2025 10:24	17802	GILB_T1	2	4	2	0.3	0.53	0.23	0.26	0.27	0	0	0	0	0	0
3/4/2025 10:25	67402	WAKE_T2	0	0	0	0	0	0	0.44	0.4	1	1	0	600	600	0
3/4/2025 10:26	24901	WHHA_T1	0	1	1	0	1.1	1.1	-0.78	-0.79	0	0	0	0	0	0
3/4/2025 10:26	24902	WHHA_T1	4	5	1	0.95	0.53	-0.42	0	0	0	0	0	0	0	0
3/4/2025 10:26	10801	CHHI_T1	1	9	8	0.1	0.44	0.34	-2.04	-2.01	3	3	0	2100	2100	0
3/4/2025 10:28	61304	EARL_T1	2	3	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/4/2025 10:28	13501	MCMI_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
3/4/2025 10:28	60803	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:28	58402	MORO_T1	4	0	-4	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/4/2025 10:28	13502	MCMI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 10:28	58401	MORO_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	600	600	0
3/4/2025 10:28	61306	EARL_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/4/2025 10:29	61306	EARL_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/4/2025 10:29	61304	EARL_T1	2	3	1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/4/2025 10:30	58401	MORO_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	600	600	0
3/4/2025 10:30	52402	GRPA_T2	6	13	7	0.63	0.62	-0.01	0	0	0	0	0	0	0	0
3/4/2025 10:30	52401	GRPA_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/4/2025 10:30	52403	GRPA_T2	6	38	32	0.42	0.65	0.23	0	0	0	0	0	0	0	0
3/4/2025 10:30	10801	CHHI_T1	9	7	-2	0.29	0.46	0.17	-2.04	-2.01	3	3	0	2100	2100	0
3/4/2025 10:30	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	0.48	0.54	3	3	0	2700	2700	0
3/4/2025 10:31	54504	ENOL_T2	0	1	1	0	0.8	0.8	-1.07	-1.07	1	1	0	600	600	0
3/4/2025 10:31	54501	ENOL_T2	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0	0
3/4/2025 10:31	54505	ENOL_T2	1	2	1	1.1	0.7	-0.4	-0.66	-0.66	1	1	0	600	600	0
3/4/2025 10:31	54502	ENOL_T2	1	3	2	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
3/4/2025 10:31	63501	HEID_TBK1-2	0	1	1	0	0.1	0.1	0.16	0.18	1	1	0	900	900	0
3/4/2025 10:32	58401	MORO_T1	0	0	0	0	0	0	-1.96	-2	2	2	0	1200	1200	0
3/4/2025 10:33	65502	MOJO_T2	0	0	0	0	0	0	-0.06	0.04	0	0	0	0	0	0
3/4/2025 10:33	58401	MORO_T1	0	0	0	0	0	0	-0.98	-1	1	1	0	600	600	0
3/4/2025 10:34	48302	ORWI_T2	2	2	0	1.8	1.75	-0.05	0.04	0.04	0	0	0	0	0	0
3/4/2025 10:34	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:34	57201	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 10:34	48303	ORWI_T2	2	2	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/4/2025 10:34	57205	ROSS_T1	1	4	3	1.5	0.85	-0.65	0	0	0	0	0	0	0	0
3/4/2025 10:34	65503	MOJO_T2	0	0	0	0	0	0	-0.83	-0.78	1	1	0	900	900	0
3/4/2025 10:34	57203	ROSS_T1	0	2	2	0	0	0	-0.28	-0.3	0	0	0	0	0	0
3/4/2025 10:35	48303	ORWI_T2	2	2	0	0.6	0.4	-0.2	0.55	0.51	0	0	0	0	0	0
3/4/2025 10:35	48302	ORWI_T2	2	2	0	1.8	1.75	-0.05	0	0	0	0	0	0	0	0
3/4/2025 10:35	65502	MOJO_T2	0	0	0	0	0	0	-0.06	0.04	0	0	0	0	0	0
3/4/2025 10:35	66903	SHIL_T2	0	0	0	0	0	0	-1.19	-1.19	0	0	0	0	0	0
3/4/2025 10:36	66903	SHIL_T2	0	0	0	0	0	0	-2.38	-2.46	0	0	0	0	0	0
3/4/2025 10:37	66903	SHIL_T2	0	0	0	0	0	0	-1.19	-1.23	0	0	0	0	0	0
3/4/2025 10:38	66901	SHIL_T2	0	0	0	0	0	0	-1.43	-1.36	1	1	0	1200	1200	0
3/4/2025 10:39	46004	BERW_T2	1	1	0	0.2	0.6	0.4	-0.04	-0.06	0	0	0	0	0	0
3/4/2025 10:40	14802	TREI_T2	3	8	5	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 10:40	59101	WALK_T2	0	0	0	0	0	0	2.29	2.21	0	0	0	0	0	0
3/4/2025 10:40	14801	TREI_T2	3	16	13	0.7	0.28	-0.42	0.49	0.47	0	0	0	0	0	0
3/4/2025 10:41	42701	AUGU_T1	0	1	1	0	1.2	1.2	0	0	2	2	0	1800	1800	0
3/4/2025 10:44	45702	LIND_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/4/2025 10:44	45701	LIND_T2	0	0	0	0	0	0	-0.28	-0.27	0	0	0	0	0	0
3/4/2025 10:46	64701	LITI_T1	0	0	0	0	0	0	0.31	0.36	0	0	0	0	0	0
3/4/2025 10:47	52006	LING_T2	2	8	6	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/4/2025 10:47	52002	LING_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
3/4/2025 10:47	52004	LING_T2	2	4	2	6.15	3.6	-2.55	0.29	0.29	0	0	0	0	0	0
3/4/2025 10:48	64203	KINZ_T1	0	0	0	0	0	0	-0.69	-0.1	3	2	-1	2100	1800	-300
3/4/2025 10:48	64202	KINZ_T1	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/4/2025 10:48	64204	KINZ_T1	1	3	2	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
3/4/2025 10:49	52006	LING_T2	2	8	6	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/4/2025 10:49	52004	LING_T2	2	4	2	6.15	3.6	-2.55	0.29	0.29	0	0	0	0	0	0
3/4/2025 10:49	52002	LING_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
3/4/2025 10:49	52001	LING_T1	0	0	0	0	0	0	0.25	0.28	0	0	0	0	0	0
3/4/2025 10:49	52003	LING_T1	1	8	7	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/4/2025 10:50	14601	SWHI_T1	0	6	6	0	0.2	0.2	-0.8	-0.79	0	0	0	0	0	0
3/4/2025 10:50	14603	SWHI_T1	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
3/4/2025 10:51	65902	SAKR_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
3/4/2025 10:51	65901	SAKR_T2	1	2	1	9	5.2	-3.8	-1.24	-1.28	1	1	0	900	900	0
3/4/2025 10:51	42601	TUSC_T1	10	8	-2	0.27	0	-0.27	0.13	0.14	2	2	0	1800	1800	0
3/4/2025 10:51	65904	SAKR_T2	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
3/4/2025 10:51	67401	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:51	50834	WALN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:52	14404	SSLA_T1	2	15	13	0.15	0.36	0.21	0.07	0.03	0	0	0	0	0	0
3/4/2025 10:52	14706	TREX_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:52	14103	TRUM_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/4/2025 10:52	20403	ASHF_T2	28	67	39	0.39	0.38	-0.01	0.12	0.1	0	0	0	0	0	0
3/4/2025 10:52	20401	ASHF_T2	6	10	4	0.48	0.31	-0.17	0	0	0	0	0	0	0	0
3/4/2025 10:52	14601	SWHI_T1	0	6	6	0	0.2	0.2	-0.79	-0.82	0	0	0	0	0	0
3/4/2025 10:52	14403	SSLA_T1	1	4	3	0.3	0.58	0.28	0	0	0	0	0	0	0	0
3/4/2025 10:52	20402	ASHF_T2	3	16	13	0.2	0.2	0	0	0	0	0	0	0	0	0
3/4/2025 10:52	14705	TREX_T1	0	0	0	0	0	0	-1.11	-1.14	0	0	0	0	0	0
3/4/2025 10:52	14401	SSLA_T1	1	9	8	0.1	0.31	0.21	0	0	0	0	0	0	0	0
3/4/2025 10:52	14402	SSLA_T1	4	75	71	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/4/2025 10:52	14704	TREX_T1	1	1	0	2.3	3.3	1	0	0	0	0	0	0	0	0
3/4/2025 10:52	14102	TRUM_T2	2	2	0	0.35	1.25	0.9	0	0	0	0	0	0	0	0
3/4/2025 10:52	14603	SWHI_T1	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
3/4/2025 10:52	24801	VALM_T1	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
3/4/2025 10:52	14101	TRUM_T2	0	1	1	0	0.2	0.2	0.25	0.22	0	0	0	0	0	0
3/4/2025 10:53	20402	ASHF_T2	3	16	13	0.2	0.2	0	0	0	0	0	0	0	0	0
3/4/2025 10:53	60201	ATGL_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/4/2025 10:53	42501	ALTA_T2	0	0	0	0	0	0	0.13	0	3	3	0	1800	1800	0
3/4/2025 10:53	20403	ASHF_T2	28	67	39	0.39	0.38	-0.01	0.12	0.1	0	0	0	0	0	0
3/4/2025 10:53	63303	GREE_T1	0	0	0	0	0	0	-0.2	-0.09	2	2	0	1800	1800	0
3/4/2025 10:53	65902	SAKR_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
3/4/2025 10:53	60301	TWVA_T2	0	2	2	0	9.15	9.15	-2.31	-2.32	1	1	0	1200	1200	0
3/4/2025 10:53	27504	WEIS_T1	2	1	-1	1.5	0	-1.5	-0.91	-0.89	0	0	0	0	0	0
3/4/2025 10:53	67402	WAKE_T2	0	0	0	0	0	0	0.42	0.41	1	1	0	600	600	0
3/4/2025 10:53	43304	WATS_T2	1	0	-1	2.1	0	-2.1	-0.09	-0.14	0	0	0	0	0	0
3/4/2025 10:53	67901	WNHO_T2	0	0	0	0	0	0	-0.57	-0.76	2	2	0	2100	2100	0
3/4/2025 10:53	65901	SAKR_T2	1	2	1	9	5.2	-3.8	0	0	0	0	0	0	0	0
3/4/2025 10:53	63306	GREE_T1	0	0	0	0	0	0	-1.49	-1.5	1	1	0	900	900	0
3/4/2025 10:53	67904	WNHO_T1	0	0	0	0	0	0	-2.09	-2.07	2	2	0	2100	2100	0
3/4/2025 10:53	63304	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:53	20401	ASHF_T2	6	10	4	0.48	0.31	-0.17	0	0	0	0	0	0	0	0
3/4/2025 10:53	45902	AUBU_T1	0	1	1	0	0	0	0.01	0.01	1	1	0	600	600	0
3/4/2025 10:53	65904	SAKR_T2	0	5	5	0	0.18	0.18	-1.7	-1.71	2	2	0	900	900	0
3/4/2025 10:54	50623	CCTY_T2	6	6	0	6.32	6.03	-0.29	0	0	0	0	0	0	0	0
3/4/2025 10:54	14603	SWHI_T1	0	4	4	0	0.45	0.45	-0.56	-0.54	0	0	0	0	0	0
3/4/2025 10:54	14802	TREI_T2	0	11	11	0	0.2	0.2	0.41	0.39	0	0	0	0	0	0
3/4/2025 10:54	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:54	27502	WEIS_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
3/4/2025 10:54	20402	ASHF_T2	3	16	13	0.2	0.2	0	0	0	0	0	0	0	0	0
3/4/2025 10:54	10206	ALLE_T2	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
3/4/2025 10:54	10102	ALLE_T2	16	15	-1	1.59	1.56	-0.03	0	0	0	0	0	0	0	0
3/4/2025 10:54	63306	GREE_T1	0	0	0	0	0	0	-1.49	-1.5	1	1	0	900	900	0
3/4/2025 10:54	67401	WAKE_T2	0	0	0	0	0	0	-2.04	-2.27	0	0	0	0	0	0
3/4/2025 10:54	14403	SSLA_T1	1	4	3	0.3	0.58	0.28	0	0	0	0	0	0	0	0
3/4/2025 10:54	20403	ASHF_T2	28	67	39	0.39	0.38	-0.01	0.36	0.29	0	0	0	0	0	0
3/4/2025 10:54	42601	TUSC_T1	10	8	-2	0.27	0	-0.27	0.13	0.14	2	2	0	1800	1800	0
3/4/2025 10:54	14401	SSLA_T1	1	9	8	0.1	0.31	0.21	0	0	0	0	0	0	0	0
3/4/2025 10:54	14605	SWHI_T1	0	0	0	0	0	0	1.09	1.1	1	1	0	1200	1200	0
3/4/2025 10:54	67904	WNHO_T1	0	0	0	0	0	0	-2.09	-2.07	2	2	0	2100	2100	0
3/4/2025 10:54	10203	ALLE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 10:54	50624	CCTY_T2	2	2	0	6.8	6.65	-0.15	0	0	0	0	0	0	0	0
3/4/2025 10:54	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:54	14705	TREX_T1	0	0	0	0	0	0	-0.74	-0.76	0	0	0	0	0	0
3/4/2025 10:54	50625	CCTY_T2	4	4	0	5.98	5.73	-0.25	0	0	0	0	0	0	0	0
3/4/2025 10:54	20401	ASHF_T2	6	10	4	0.48	0.31	-0.17	0	0	0	0	0	0	0	0
3/4/2025 10:54	51306	WIND_T2	0	0	0	0	0	0	0.19	0.22	0	0	0	0	0	0
3/4/2025 10:54	14604	SWHI_T1	0	0	0	0	0	0	0.03	0.01	1	1	0	900	900	0
3/4/2025 10:54	42503	ALTA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:54	14602	SWHI_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
3/4/2025 10:54	15101	UPHA_T1	2	1	-1	0.5	0.2	-0.3	0.64	0.66	0	0	0	0	0	0
3/4/2025 10:54	50626	CCTY_T2	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/4/2025 10:54	46004	BERW_T2	0	1	1	0	0.6	0.6	-0.06	-0.07	0	0	0	0	0	0
3/4/2025 10:54	15102	UPHA_T1	3	3	0	0.37	0.4	0.03	0	0	0	0	0	0	0	0
3/4/2025 10:54	15001	BLMO_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/4/2025 10:54	14706	TREX_T1	0	1	1	0	0	0	-1.03	-1.01	2	2	0	2100	2100	0
3/4/2025 10:54	43304	WATS_T2	1	0	-1	2.1	0	-2.1	0.18	0.28	0	0	0	0	0	0
3/4/2025 10:54	14704	TREX_T1	1	1	0	2.3	3.3	1	0	0	0	0	0	0	0	0
3/4/2025 10:54	44301	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 10:54	14404	SSLA_T1	2	15	13	0.15	0.36	0.21	0.07	0.03	0	0	0	0	0	0
3/4/2025 10:54	14601	SWHI_T1	0	6	6	0	0.2	0.2	-1.58	-1.64	0	0	0	0	0	0
3/4/2025 10:54	46002	BERW_T2	0	15	15	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:54	14402	SSLA_T1	4	75	71	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/4/2025 10:54	60701	BREC_T1	0	3	3	0	0.2	0.2	-0.64	-0.58	4	4	0	2400	2400	0
3/4/2025 10:54	14801	TREI_T2	2	19	17	0.25	0.3	0.05	0	0	0	0	0	0	0	0
3/4/2025 10:54	60201	ATGL_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
3/4/2025 10:55	42601	TUSC_T1	10	8	-2	0.27	0	-0.27	0.13	0.14	2	2	0	1800	1800	0
3/4/2025 10:55	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
3/4/2025 10:55	54601	SUMM_T2	8	9	1	1.63	0.67	-0.96	-1.85	-1.82	2	2	0	2100	2100	0
3/4/2025 10:55	60701	BREC_T1	0	3	3	0	0.2	0.2	-0.32	-0.29	2	2	0	1200	1200	0
3/4/2025 10:55	45303	WBER_T2	7	8	1	1.3	1.25	-0.05	0	0	0	0	0	0	0	0
3/4/2025 10:55	61001	DONV_T1	0	1	1	0	0.2	0.2	-0.03	-0.05	0	0	0	0	0	0
3/4/2025 10:55	67401	WAKE_T2	0	0	0	0	0	0	-1.02	-1.14	0	0	0	0	0	0
3/4/2025 10:55	67904	WNHO_T1	0	0	0	0	0	0	-2.09	-2.07	2	2	0	2100	2100	0
3/4/2025 10:55	45602	WOOL_T1	0	0	0	0	0	0	0.66	0.69	0	0	0	0	0	0
3/4/2025 10:55	42501	ALTA_T2	0	0	0	0	0	0	0.09	0	2	2	0	1200	1200	0
3/4/2025 10:55	46002	BERW_T2	0	15	15	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:55	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:55	45902	AUBU_T1	0	1	1	0	0	0	0.02	0.02	4	4	0	2400	2400	0
3/4/2025 10:55	67903	WNHO_T1	0	0	0	0	0	0	1.08	1.12	1	1	0	1200	1200	0
3/4/2025 10:55	45302	WBER_T2	4	7	3	0.13	0.19	0.06	0	0	0	0	0	0	0	0
3/4/2025 10:55	24801	VALM_T1	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
3/4/2025 10:55	45301	WBER_T2	7	25	18	0.17	0.16	-0.01	-0.06	0.01	1	1	0	1200	1200	0
3/4/2025 10:55	60201	ATGL_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/4/2025 10:55	58001	WCAR_T1	4	4	0	1.35	1.3	-0.05	0	0	0	0	0	0	0	0
3/4/2025 10:55	46004	BERW_T2	0	1	1	0	0.6	0.6	-0.06	-0.07	0	0	0	0	0	0
3/4/2025 10:55	21701	SUBU_T1	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
3/4/2025 10:55	58003	WCAR_T1	4	9	5	0.58	0.34	-0.24	0.72	0.74	0	0	0	0	0	0
3/4/2025 10:55	21705	SUBU_T1	2	2	0	3.35	3.35	0	0	0	0	0	0	0	0	0
3/4/2025 10:55	63306	GREE_T1	0	0	0	0	0	0	-1.49	-1.5	1	1	0	900	900	0
3/4/2025 10:56	15101	UPHA_T1	2	1	-1	0.5	0.2	-0.3	1.29	1.32	0	0	0	0	0	0
3/4/2025 10:56	11404	FARM_T1	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 10:56	20402	ASHF_T2	3	16	13	0.2	0.2	0	0	0	0	0	0	0	0	0
3/4/2025 10:56	11904	ETEX_T2	0	1	1	0	4.4	4.4	0.24	0.23	0	0	0	0	0	0
3/4/2025 10:56	20401	ASHF_T2	6	10	4	0.48	0.31	-0.17	0.42	0.38	0	0	0	0	0	0
3/4/2025 10:56	14601	SWHI_T1	0	6	6	0	0.2	0.2	-3.16	-3.28	0	0	0	0	0	0
3/4/2025 10:56	51108	CARL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/4/2025 10:56	45902	AUBU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:56	15001	BLMO_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/4/2025 10:56	14605	SWHI_T1	0	0	0	0	0	0	1.09	1.1	1	1	0	1200	1200	0
3/4/2025 10:56	45301	WBER_T2	7	25	18	0.17	0.16	-0.01	-0.06	0.01	1	1	0	1200	1200	0
3/4/2025 10:56	10206	ALLE_T2	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
3/4/2025 10:56	10203	ALLE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 10:56	11406	FARM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 10:56	11901	ETEX_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/4/2025 10:56	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
3/4/2025 10:56	10102	ALLE_T2	16	15	-1	1.59	1.56	-0.03	0	0	0	0	0	0	0	0
3/4/2025 10:56	44801	EDAN_T2	0	0	0	0	0	0	-0.43	-0.46	0	0	0	0	0	0
3/4/2025 10:56	51602	DUKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 10:56	46002	BERW_T2	0	15	15	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:56	50302	CEDA_T2	0	1	1	0	0.4	0.4	-0.41	-0.39	1	1	0	1200	1200	0
3/4/2025 10:56	42503	ALTA_T2	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
3/4/2025 10:56	67903	WNHO_T1	0	0	0	0	0	0	1.08	1.12	1	1	0	1200	1200	0
3/4/2025 10:56	14602	SWHI_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
3/4/2025 10:56	65901	SAKR_T2	1	2	1	9	5.2	-3.8	-1.24	-1.28	1	1	0	900	900	0
3/4/2025 10:56	15102	UPHA_T1	3	3	0	0.37	0.4	0.03	0	0	0	0	0	0	0	0
3/4/2025 10:56	51104	CARL_T1	1	0	-1	6.8	0	-6.8	0	0	0	0	0	0	0	0
3/4/2025 10:56	14603	SWHI_T1	0	4	4	0	0.45	0.45	-0.84	-0.81	0	0	0	0	0	0
3/4/2025 10:56	51109	CARL_T1	0	0	0	0	0	0	-1	-0.98	1	1	0	1200	1200	0
3/4/2025 10:56	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:56	51604	DUKE_T2	4	10	6	0.35	0.34	-0.01	0	0	0	0	0	0	0	0
3/4/2025 10:56	51306	WIND_T2	0	0	0	0	0	0	0.39	0.43	0	0	0	0	0	0
3/4/2025 10:56	44301	BEAV_T2	0	1	1	0	0.1	0.1	0.65	0.5	2	2	0	1500	1500	0
3/4/2025 10:56	45302	WBER_T2	4	7	3	0.13	0.19	0.06	0	0	0	0	0	0	0	0
3/4/2025 10:56	20403	ASHF_T2	28	67	39	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
3/4/2025 10:56	11407	FARM_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
3/4/2025 10:56	65904	SAKR_T2	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
3/4/2025 10:56	51101	CARL_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
3/4/2025 10:56	14706	TREX_T1	0	1	1	0	0	0	-1.03	-1.01	2	2	0	2100	2100	0
3/4/2025 10:56	63306	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:56	46004	BERW_T2	0	1	1	0	0.6	0.6	-0.06	-0.07	0	0	0	0	0	0
3/4/2025 10:56	65902	SAKR_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
3/4/2025 10:56	42501	ALTA_T2	0	0	0	0	0	0	0.17	0	4	4	0	2400	2400	0
3/4/2025 10:56	45303	WBER_T2	7	8	1	1.3	1.25	-0.05	0	0	0	0	0	0	0	0
3/4/2025 10:56	60101	COCA_T1	0	1	1	0	0.1	0.1	0.35	0.3	0	0	0	0	0	0
3/4/2025 10:56	14705	TREX_T1	0	0	0	0	0	0	-0.74	-0.76	0	0	0	0	0	0
3/4/2025 10:56	60701	BREC_T1	0	3	3	0	0.2	0.2	-1.92	-1.74	12	12	0	7200	7200	0
3/4/2025 10:56	15103	UPHA_T2	2	5	3	0.95	0.58	-0.37	0.42	0.44	0	0	0	0	0	0
3/4/2025 10:56	67904	WNHO_T1	0	0	0	0	0	0	-6.26	-6.22	6	6	0	6300	6300	0
3/4/2025 10:56	51102	CARL_T1	1	4	3	2.6	0.98	-1.62	0	0	0	0	0	0	0	0
3/4/2025 10:56	11405	FARM_T1	4	5	1	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
3/4/2025 10:56	14704	TREX_T1	1	1	0	2.3	3.3	1	0	0	0	0	0	0	0	0
3/4/2025 10:57	51109	CARL_T1	0	0	0	0	0	0	-1	-0.98	1	1	0	1200	1200	0
3/4/2025 10:57	42501	ALTA_T2	0	0	0	0	0	0	0.13	0	3	3	0	1800	1800	0
3/4/2025 10:57	51104	CARL_T1	1	0	-1	6.8	0	-6.8	0	0	0	0	0	0	0	0
3/4/2025 10:57	63303	GREE_T1	0	0	0	0	0	0	-0.2	-0.09	2	2	0	1800	1800	0
3/4/2025 10:57	27502	WEIS_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
3/4/2025 10:57	51108	CARL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/4/2025 10:57	51101	CARL_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
3/4/2025 10:57	67904	WNHO_T1	0	0	0	0	0	0	-2.09	-2.07	2	2	0	2100	2100	0
3/4/2025 10:57	44301	BEAV_T2	0	1	1	0	0.1	0.1	0.65	0.5	2	2	0	1500	1500	0
3/4/2025 10:57	51102	CARL_T1	1	4	3	2.6	0.98	-1.62	0	0	0	0	0	0	0	0
3/4/2025 10:57	27201	YATE_T1	10	10	0	6.39	6.08	-0.31	-3.86	-3.81	0	0	0	0	0	0
3/4/2025 10:57	45902	AUBU_T1	0	1	1	0	0	0	0.01	0.01	2	2	0	1200	1200	0
3/4/2025 10:58	27201	YATE_T1	10	10	0	6.39	6.08	-0.31	-1.93	-1.91	0	0	0	0	0	0
3/4/2025 10:58	14603	SWHI_T1	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
3/4/2025 10:58	20401	ASHF_T2	6	10	4	0.48	0.31	-0.17	0	0	0	0	0	0	0	0
3/4/2025 10:58	10203	ALLE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 10:58	14601	SWHI_T1	0	6	6	0	0.2	0.2	-1.58	-1.64	0	0	0	0	0	0
3/4/2025 10:58	58402	MORO_T1	0	0	0	0	0	0	-0.01	0.04	2	2	0	1500	1500	0
3/4/2025 10:58	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:58	58401	MORO_T1	0	0	0	0	0	0	-1.08	-1.05	1	1	0	600	600	0
3/4/2025 10:58	10206	ALLE_T2	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
3/4/2025 10:58	11001	EGRE_T1	0	0	0	0	0	0	-0.21	-0.21	1	1	0	1200	1200	0
3/4/2025 10:58	20402	ASHF_T2	3	16	13	0.2	0.2	0	0	0	0	0	0	0	0	0
3/4/2025 10:58	60101	COCA_T1	0	1	1	0	0.1	0.1	0.35	0.3	0	0	0	0	0	0
3/4/2025 10:58	60701	BREC_T1	0	3	3	0	0.2	0.2	-0.32	-0.29	2	2	0	1200	1200	0
3/4/2025 10:58	11404	FARM_T1	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 10:58	11901	ETEX_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/4/2025 10:58	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.65	0	0	0	0	0	0
3/4/2025 10:58	45802	HEGI_T2	35	32	-3	0.55	0.54	-0.01	0.52	0.38	0	0	0	0	0	0
3/4/2025 10:58	45902	AUBU_T1	0	1	1	0	0	0	0.01	0.01	2	2	0	1200	1200	0
3/4/2025 10:58	61801	EELI_T2	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
3/4/2025 10:58	11407	FARM_T1	0	0	0	0	0	0	-1.28	-1.26	0	0	0	0	0	0
3/4/2025 10:58	20603	GRWO_T2	7	0	-7	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/4/2025 10:58	20601	GRWO_T2	1	1	0	2.6	0.7	-1.9	0.63	0.66	0	0	0	0	0	0
3/4/2025 10:58	11406	FARM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 10:58	42501	ALTA_T2	0	0	0	0	0	0	0.04	0	1	1	0	600	600	0
3/4/2025 10:58	11904	ETEX_T2	0	1	1	0	4.4	4.4	0.24	0.23	0	0	0	0	0	0
3/4/2025 10:58	44301	BEAV_T2	0	1	1	0	0.1	0.1	1.3	1	4	4	0	3000	3000	0
3/4/2025 10:58	20403	ASHF_T2	28	67	39	0.39	0.38	-0.01	0	0	0	0	0	0	0	0
3/4/2025 10:58	10102	ALLE_T2	16	15	-1	1.59	1.56	-0.03	0	0	0	0	0	0	0	0
3/4/2025 10:58	42503	ALTA_T2	0	0	0	0	0	0	0.22	0.27	0	0	0	0	0	0
3/4/2025 10:58	11405	FARM_T1	4	5	1	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
3/4/2025 10:59	55503	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:59	45702	LIND_T2	0	1	1	0	0.2	0.2	-1.68	-1.72	0	0	0	0	0	0
3/4/2025 10:59	58401	MORO_T1	0	0	0	0	0	0	-1.08	-1.05	1	1	0	600	600	0
3/4/2025 10:59	50834	WALN_T2	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
3/4/2025 10:59	51108	CARL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/4/2025 10:59	55508	HERS_T2	2	2	0	1.7	1.9	0.2	0	0	1	1	0	1200	1200	0
3/4/2025 10:59	51101	CARL_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
3/4/2025 10:59	61001	DONV_T1	0	1	1	0	0.2	0.2	-0.03	-0.05	0	0	0	0	0	0
3/4/2025 10:59	45802	HEGI_T2	35	32	-3	0.55	0.54	-0.01	0.52	0.38	0	0	0	0	0	0
3/4/2025 10:59	51104	CARL_T1	1	0	-1	6.8	0	-6.8	0	0	0	0	0	0	0	0
3/4/2025 10:59	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 10:59	51109	CARL_T1	0	0	0	0	0	0	-2.99	-2.94	3	3	0	3600	3600	0
3/4/2025 10:59	51102	CARL_T1	1	4	3	2.6	0.98	-1.62	0	0	0	0	0	0	0	0
3/4/2025 11:00	55508	HERS_T2	2	3	1	1.9	1.37	-0.53	0	0	1	1	0	1200	1200	0
3/4/2025 11:00	58402	MORO_T1	0	0	0	0	0	0	-0.01	0.04	2	2	0	1500	1500	0
3/4/2025 11:00	58401	MORO_T1	0	0	0	0	0	0	-1.08	-1.05	1	1	0	600	600	0
3/4/2025 11:00	11302	EMMA_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
3/4/2025 11:00	20603	GRWO_T2	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
3/4/2025 11:00	44801	EDAN_T2	0	2	2	0	0.25	0.25	-0.43	-0.46	0	0	0	0	0	0
3/4/2025 11:00	11904	ETEX_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 11:00	20601	GRWO_T2	1	1	0	2.1	0	-2.1	0.63	0.66	0	0	0	0	0	0
3/4/2025 11:00	61001	DONV_T1	1	1	0	0.2	0.5	0.3	-0.03	-0.05	0	0	0	0	0	0
3/4/2025 11:00	11303	EMMA_T1	1	5	4	0.9	0.44	-0.46	0	0	0	0	0	0	0	0
3/4/2025 11:00	11301	EMMA_T1	0	0	0	0	0	0	-0.83	-0.81	0	0	0	0	0	0
3/4/2025 11:00	10805	OHHI_T2	4	4	0	2.15	2	-0.15	-3.11	-3.17	2	2	0	2400	2400	0
3/4/2025 11:00	11901	ETEX_T2	2	3	1	0.15	0.4	0.25	0.37	0.32	0	0	0	0	0	0
3/4/2025 11:01	40701	FFLD_T1	16	20	4	0.14	0.19	0.05	0	0	0	0	0	0	0	0
3/4/2025 11:01	65802	RTWN_T2	0	1	1	0	0.9	0.9	-0.26	-0.25	0	0	0	0	0	0
3/4/2025 11:01	51108	CARL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/4/2025 11:01	40703	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:01	45702	LIND_T2	0	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0
3/4/2025 11:01	51102	CARL_T1	4	4	0	0.93	1.13	0.2	0	0	0	0	0	0	0	0
3/4/2025 11:01	40702	FFLD_T1	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/4/2025 11:01	52002	LING_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/4/2025 11:01	52004	LING_T2	3	6	3	4.27	2.63	-1.64	0	0	0	0	0	0	0	0
3/4/2025 11:01	58401	MORO_T1	0	0	0	0	0	0	-1.08	-1.05	1	1	0	600	600	0
3/4/2025 11:01	65502	MOJO_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:01	65503	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 11:01	51101	CARL_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/4/2025 11:01	52006	LING_T2	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
3/4/2025 11:01	45701	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 11:02	40702	FFLD_T1	2	2	0	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/4/2025 11:02	48302	ORWI_T2	2	2	0	1.6	1.75	0.15	0.03	0.04	0	0	0	0	0	0
3/4/2025 11:02	40701	FFLD_T1	16	20	4	0.14	0.19	0.05	0	0	0	0	0	0	0	0
3/4/2025 11:02	48303	ORWI_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/4/2025 11:02	55503	HERS_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
3/4/2025 11:02	11401	FARM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 11:02	11904	ETEX_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 11:02	58401	MORO_T1	0	0	0	0	0	0	-1.08	-1.05	1	1	0	600	600	0
3/4/2025 11:02	11405	FARM_T1	4	8	4	0.68	0.57	-0.11	0	0	0	0	0	0	0	0
3/4/2025 11:02	11402	FARM_T1	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
3/4/2025 11:02	40703	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:02	11406	FARM_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/4/2025 11:02	64704	LITI_T1	0	0	0	0	0	0	0.04	0.61	1	0	-1	600	0	-600
3/4/2025 11:02	11901	ETEX_T2	2	3	1	0.15	0.4	0.25	0.37	0.32	0	0	0	0	0	0
3/4/2025 11:02	11404	FARM_T1	0	1	1	0	0.2	0.2	-0.61	-0.63	1	1	0	1200	1200	0
3/4/2025 11:03	47001	HUGH_T2	4	3	-1	6.2	8.67	2.47	-0.76	-0.78	0	0	0	0	0	0
3/4/2025 11:03	64704	LITI_T1	0	0	0	0	0	0	0.04	0.61	1	0	-1	600	0	-600
3/4/2025 11:04	42902	MIDD_T2	0	0	0	0	0	0	-0.73	-0.06	1	1	0	600	600	0
3/4/2025 11:04	42903	MIDD_T2	2	2	0	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
3/4/2025 11:04	13002	NBET_T2	0	1	1	0	0	0	-5.47	-5.22	6	6	0	7200	7200	0
3/4/2025 11:04	44301	BEAV_T2	1	2	1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
3/4/2025 11:04	41901	REED_T1	8	9	1	0.41	0.38	-0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/4/2025 11:04	13004	NBET_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/4/2025 11:04	13005	NBET_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:05	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 11:05	59302	MCAL_T1	0	0	0	0	0	0	-0.7	-0.71	1	1	0	600	600	0
3/4/2025 11:05	57201	ROSS_T1	1	3	2	0.1	0.17	0.07	-0.59	-0.54	0	0	0	0	0	0
3/4/2025 11:05	42903	MIDD_T2	2	2	0	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
3/4/2025 11:05	52002	LING_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/4/2025 11:05	52004	LING_T2	3	6	3	4.27	2.63	-1.64	0.29	0.28	0	0	0	0	0	0
3/4/2025 11:05	42902	MIDD_T2	0	0	0	0	0	0	-0.73	-0.06	1	1	0	600	600	0
3/4/2025 11:05	52006	LING_T2	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
3/4/2025 11:05	52502	PROG_T2	1	2	1	0.2	0.4	0.2	-1.14	-1.14	2	2	0	1800	1800	0
3/4/2025 11:05	59301	MCAL_T1	2	2	0	0.35	0.85	0.5	0	0	0	0	0	0	0	0
3/4/2025 11:05	57203	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:05	57205	ROSS_T1	4	4	0	0.85	1.13	0.28	0	0	0	0	0	0	0	0
3/4/2025 11:06	52502	PROG_T2	1	2	1	0.2	0.4	0.2	-1.14	-1.14	2	2	0	1800	1800	0
3/4/2025 11:06	13005	NBET_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:06	57403	SPAN_T1	20	31	11	0.25	0.34	0.09	0	0	0	0	0	0	0	0
3/4/2025 11:06	12401	MILF_T1	2	1	-1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
3/4/2025 11:06	51703	OBER_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 11:06	13004	NBET_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/4/2025 11:06	57401	SPAN_T1	32	61	29	0.43	0.42	-0.01	-2.24	-2.19	2	2	0	1200	1200	0
3/4/2025 11:06	12403	MILF_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:06	12402	MILF_T1	1	1	0	1.7	1.1	-0.6	0	0	0	0	0	0	0	0
3/4/2025 11:06	47001	HUGH_T2	4	3	-1	6.2	8.67	2.47	-0.78	-0.75	0	0	0	0	0	0
3/4/2025 11:06	51701	OBER_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
3/4/2025 11:06	13002	NBET_T2	0	1	1	0	0	0	-3.65	-3.48	4	4	0	4800	4800	0
3/4/2025 11:06	52503	PROG_T2	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
3/4/2025 11:06	13001	NBET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 11:07	51804	EBEN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 11:07	57401	SPAN_T1	32	61	29	0.43	0.42	-0.01	-2.19	-2.26	2	2	0	1200	1200	0
3/4/2025 11:07	51802	EBEN_T2	0	0	0	0	0	0	0.06	0.01	1	1	0	900	900	0
3/4/2025 11:07	52502	PROG_T2	1	2	1	0.2	0.4	0.2	-0.57	0.36	1	0	-1	900	0	-900
3/4/2025 11:07	57403	SPAN_T1	20	31	11	0.25	0.34	0.09	0	0	0	0	0	0	0	0
3/4/2025 11:08	41901	REED_T1	8	9	1	0.41	0.38	-0.03	-1.21	-1.14	1	1	0	900	900	0
3/4/2025 11:08	57402	SPAN_T2	2	3	1	0.15	0.3	0.15	-0.55	-0.55	0	0	0	0	0	0
3/4/2025 11:08	12403	MILF_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:08	12401	MILF_T1	2	1	-1	0.3	0.7	0.4	-0.32	-0.37	0	0	0	0	0	0
3/4/2025 11:08	13002	NBET_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 11:08	13004	NBET_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/4/2025 11:08	12402	MILF_T1	1	1	0	1.7	1.1	-0.6	0	0	0	0	0	0	0	0
3/4/2025 11:08	52502	PROG_T2	1	2	1	0.2	0.4	0.2	-1.14	0.72	2	0	-2	1800	0	-1800
3/4/2025 11:08	13807	SALI_T1	1	3	2	0.5	0.9	0.4	0.16	0.18	0	0	0	0	0	0
3/4/2025 11:08	57401	SPAN_T1	32	61	29	0.43	0.42	-0.01	0	0	0	0	0	0	0	0
3/4/2025 11:08	57201	ROSS_T1	1	3	2	0.1	0.17	0.07	-0.54	-0.53	0	0	0	0	0	0
3/4/2025 11:08	57205	ROSS_T1	4	4	0	0.85	1.13	0.28	0	0	0	0	0	0	0	0
3/4/2025 11:08	57203	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:08	57403	SPAN_T1	20	31	11	0.25	0.34	0.09	0	0	0	0	0	0	0	0
3/4/2025 11:08	13802	SALI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:08	13005	NBET_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:09	57205	ROSS_T1	4	4	0	0.85	1.13	0.28	0.13	0.14	0	0	0	0	0	0
3/4/2025 11:09	57201	ROSS_T1	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/4/2025 11:09	57403	SPAN_T1	20	31	11	0.25	0.34	0.09	0.4	0.18	0	0	0	0	0	0
3/4/2025 11:09	57401	SPAN_T1	32	61	29	0.43	0.42	-0.01	0	0	0	0	0	0	0	0
3/4/2025 11:09	52502	PROG_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/4/2025 11:09	57203	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:09	52503	PROG_T2	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
3/4/2025 11:10	14801	TREI_T2	16	47	31	0.28	0.22	-0.06	0	0	0	0	0	0	0	0
3/4/2025 11:10	61701	ELIZ_T1	1	2	1	5.5	3.45	-2.05	0.22	0.09	0	0	0	0	0	0
3/4/2025 11:10	61703	ELIZ_T1	0	9	9	0	0.27	0.27	0	0	0	0	0	0	0	0
3/4/2025 11:10	57401	SPAN_T1	32	61	29	0.43	0.42	-0.01	-2.19	-2.26	2	2	0	1200	1200	0
3/4/2025 11:10	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 11:10	13904	SEID_T1	1	9	8	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/4/2025 11:10	14601	SWHI_T1	1	7	6	0.2	0.21	0.01	0	0	0	0	0	0	0	0
3/4/2025 11:10	14603	SWHI_T1	2	5	3	0.45	0.4	-0.05	-0.27	-0.29	0	0	0	0	0	0
3/4/2025 11:10	14802	TREI_T2	8	8	0	0.2	0.29	0.09	0.39	0.37	0	0	0	0	0	0
3/4/2025 11:10	57403	SPAN_T1	20	31	11	0.25	0.34	0.09	0.26	0.12	0	0	0	0	0	0
3/4/2025 11:25	43402	BENT_T1	1	4	3	0.8	0.65	-0.15	-0.93	-0.95	1	1	0	900	900	0
3/4/2025 11:26	51302	WIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 11:26	51306	WIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 11:26	40505	CRES_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
3/4/2025 11:26	51304	WIND_T2	0	1	1	0	0.2	0.2	-0.17	-0.18	0	0	0	0	0	0
3/4/2025 11:33	52404	GRPA_T2	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
3/4/2025 11:33	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 11:33	24103	EHAZ_T1	4	4	0	1.38	0.4	-0.98	0	0	0	0	0	0	0	0
3/4/2025 11:33	40601	PIGR_T1	1	120	119	0.1	0.21	0.11	0	0	0	0	0	0	0	0
3/4/2025 11:33	40602	PIGR_T1	0	2	2	0	0.1	0.1	-0.47	-0.52	1	1	0	600	600	0
3/4/2025 11:33	43402	BENT_T1	4	2	-2	0.6	0.8	0.2	-0.93	-0.95	1	1	0	900	900	0
3/4/2025 11:33	51301	WIND_T1	4	9	5	0.28	0.43	0.15	0	0	0	0	0	0	0	0
3/4/2025 11:33	57403	SPAN_T1	30	41	11	0.33	0.38	0.05	0	0	0	0	0	0	0	0
3/4/2025 11:33	40505	CRES_T1	0	0	0	0	0	0	0.72	0.74	0	0	0	0	0	0
3/4/2025 11:33	57401	SPAN_T1	58	145	87	0.43	0.37	-0.06	-1.13	-1.17	1	1	0	600	600	0
3/4/2025 11:33	24104	EHAZ_T1	0	0	0	0	0	0	-2.18	-2.2	1	1	0	1200	1200	0
3/4/2025 11:33	40603	PIGR_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/4/2025 11:33	24101	EHAZ_T1	103	130	27	1.22	1.39	0.17	0	0	0	0	0	0	0	0
3/4/2025 11:33	52403	GRPA_T2	28	38	10	0.8	0.89	0.09	-0.83	-0.87	0	0	0	0	0	0
3/4/2025 11:33	52401	GRPA_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
3/4/2025 11:33	51303	WIND_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/4/2025 11:33	24105	EHAZ_T1	18	12	-6	2.09	6.7	4.61	0	0	0	0	0	0	0	0
3/4/2025 11:33	52402	GRPA_T2	50	97	47	0.51	0.43	-0.08	0	0	0	0	0	0	0	0
3/4/2025 11:33	24102	EHAZ_T1	10	12	2	1.6	0.6	-1	0	0	0	0	0	0	0	0
3/4/2025 11:34	51304	WIND_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:34	16702	MACK_T1	1	1	0	0.2	0.2	0	-1.05	-1.06	0	0	0	0	0	0
3/4/2025 11:34	47101	MARL_T1	6	0	-6	0.32	0	-0.32	0	0	0	0	0	0	0	0
3/4/2025 11:34	47104	MARL_T1	0	0	0	0	0	0	-2.24	-2.24	0	0	0	0	0	0
3/4/2025 11:34	51302	WIND_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/4/2025 11:34	51306	WIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 11:35	57401	SPAN_T1	58	145	87	0.43	0.37	-0.06	-1.13	-1.17	1	1	0	600	600	0
3/4/2025 11:35	61703	ELIZ_T1	7	7	0	0.29	0.34	0.05	-3.76	-3.8	2	2	0	1800	1800	0
3/4/2025 11:35	61701	ELIZ_T1	2	2	0	3.45	3.3	-0.15	0	0	0	0	0	0	0	0
3/4/2025 11:35	57403	SPAN_T1	30	41	11	0.33	0.38	0.05	0	0	0	0	0	0	0	0
3/4/2025 11:36	14601	SWHI_T1	4	3	-1	0.23	0.33	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:36	46102	MACI_T1	0	0	0	0	0	0	0.67	0.68	0	0	0	0	0	0
3/4/2025 11:36	11901	ETEX_T2	3	3	0	0.4	0.57	0.17	0	0	0	0	0	0	0	0
3/4/2025 11:36	65501	MOJO_T1	0	0	0	0	0	0	-1.19	-1.13	1	1	0	900	900	0
3/4/2025 11:36	14603	SWHI_T1	3	2	-1	0.27	0.3	0.03	0	0	0	0	0	0	0	0
3/4/2025 11:36	61001	DONV_T1	1	2	1	0.5	0.65	0.15	-0.26	-0.28	0	0	0	0	0	0
3/4/2025 11:36	11904	ETEX_T2	0	0	0	0	0	0	0.23	0.21	0	0	0	0	0	0
3/4/2025 11:36	40801	EXCH_T2	3	2	-1	0.13	0.1	-0.03	-0.48	-0.5	1	1	0	1200	1200	0
3/4/2025 11:36	63501	HEID_TBK1-2	3	8	5	0.17	0.28	0.11	0.11	0.15	1	1	0	900	900	0
3/4/2025 11:36	14605	SWHI_T1	0	0	0	0	0	0	1.07	1.2	1	1	0	1200	1200	0
3/4/2025 11:37	54504	ENOL_T2	1	1	0	1.6	1.2	-0.4	0	0	0	0	0	0	0	0
3/4/2025 11:37	54502	ENOL_T2	7	6	-1	0.31	0.33	0.02	0	0	0	0	0	0	0	0
3/4/2025 11:37	54501	ENOL_T2	6	7	1	0.43	0.43	0	-1.22	-1.17	1	1	0	600	600	0
3/4/2025 11:37	54505	ENOL_T2	2	2	0	1.1	0.85	-0.25	0	0	0	0	0	0	0	0
3/4/2025 11:38	54501	ENOL_T2	6	7	1	0.43	0.43	0	0	0	0	0	0	0	0	0
3/4/2025 11:38	66502	SMAN_T2	19	21	2	0.36	0.43	0.07	0	0	0	0	0	0	0	0
3/4/2025 11:38	66501	SMAN_T2	1	2	1	0.1	0.65	0.55	0	0	0	0	0	0	0	0
3/4/2025 11:38	66504	SMAN_T2	6	9	3	0.42	0.46	0.04	0	0	0	0	0	0	0	0
3/4/2025 11:38	20403	ASHF_T2	4	4	0	0.18	0.13	-0.05	0.16	0.12	0	0	0	0	0	0
3/4/2025 11:38	20401	ASHF_T2	3	2	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/4/2025 11:38	66505	SMAN_T2	3	3	0	0.63	0.77	0.14	-0.1	-0.03	1	1	0	900	900	0
3/4/2025 11:38	15103	UPHA_T2	2	7	5	0.8	0.46	-0.34	0	0	0	0	0	0	0	0
3/4/2025 11:38	54502	ENOL_T2	7	6	-1	0.31	0.33	0.02	0	0	0	0	0	0	0	0
3/4/2025 11:38	67605	WARW_T1	47	68	21	0.43	0.57	0.14	0	0	0	0	0	0	0	0
3/4/2025 11:38	15104	UPHA_T2	0	0	0	0	0	0	0.74	0.73	0	0	0	0	0	0
3/4/2025 11:38	51301	WIND_T1	4	9	5	0.28	0.43	0.15	0	0	0	0	0	0	0	0
3/4/2025 11:38	55002	NEWP_T1	8	8	0	0.73	0.99	0.26	0	0	0	0	0	0	0	0
3/4/2025 11:38	20402	ASHF_T2	5	1	-4	0.24	0	-0.24	0	0	0	0	0	0	0	0
3/4/2025 11:38	67603	WARW_T1	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
3/4/2025 11:38	51303	WIND_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/4/2025 11:38	55001	NEWP_T1	4	4	0	0.25	0.65	0.4	-0.39	-0.45	0	0	0	0	0	0
3/4/2025 11:38	67201	TEHI_T1	0	2	2	0	0.35	0.35	0.79	0.69	1	1	0	900	900	0
3/4/2025 11:38	54505	ENOL_T2	2	2	0	1.1	0.85	-0.25	-0.66	-0.66	1	1	0	600	600	0
3/4/2025 11:38	54504	ENOL_T2	1	1	0	1.6	1.2	-0.4	0	0	0	0	0	0	0	0
3/4/2025 11:38	66503	SMAN_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/4/2025 11:38	63501	HEID_TBK1-2	3	8	5	0.17	0.28	0.11	0.22	0.3	2	2	0	1800	1800	0
3/4/2025 11:38	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 11:39	66504	SMAN_T2	6	9	3	0.42	0.46	0.04	0	0	0	0	0	0	0	0
3/4/2025 11:39	66503	SMAN_T2	2	2	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/4/2025 11:39	67603	WARW_T1	0	4	4	0	0.38	0.38	0.06	0.04	0	0	0	0	0	0
3/4/2025 11:39	66501	SMAN_T2	1	2	1	0.1	0.65	0.55	0	0	0	0	0	0	0	0
3/4/2025 11:39	54601	SUMM_T2	8	12	4	0.84	0.67	-0.17	0	0	0	0	0	0	0	0
3/4/2025 11:39	66505	SMAN_T2	3	3	0	0.63	0.77	0.14	0	0	0	0	0	0	0	0
3/4/2025 11:39	57501	LAWN_T3	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
3/4/2025 11:39	55001	NEWP_T1	4	4	0	0.25	0.65	0.4	0	0	0	0	0	0	0	0
3/4/2025 11:39	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 11:39	66502	SMAN_T2	19	21	2	0.36	0.43	0.07	0	0	0	0	0	0	0	0
3/4/2025 11:39	54602	SUMM_T2	0	8	8	0	0.14	0.14	0	0	0	0	0	0	0	0
3/4/2025 11:39	57505	LAWN_T3	6	8	2	0.15	0.25	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:39	55002	NEWP_T1	8	8	0	0.73	0.99	0.26	-0.21	-0.21	0	0	0	0	0	0
3/4/2025 11:39	67605	WARW_T1	47	68	21	0.43	0.57	0.14	0	0	0	0	0	0	0	0
3/4/2025 11:39	54603	SUMM_T2	0	0	0	0	0	0	-0.09	-0.07	1	1	0	900	900	0
3/4/2025 11:40	67601	WARW_T2	0	1	1	0	0.1	0.1	-0.52	-0.52	0	0	0	0	0	0
3/4/2025 11:40	67605	WARW_T1	47	68	21	0.43	0.57	0.14	-1.11	-1.11	0	0	0	0	0	0
3/4/2025 11:40	57403	SPAN_T1	30	41	11	0.33	0.38	0.05	0	0	0	0	0	0	0	0
3/4/2025 11:40	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 11:40	67603	WARW_T1	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
3/4/2025 11:40	57401	SPAN_T1	58	145	87	0.43	0.37	-0.06	-1.17	-1.06	1	1	0	600	600	0
3/4/2025 11:41	57401	SPAN_T1	58	145	87	0.43	0.37	-0.06	-1.17	-1.06	1	1	0	600	600	0
3/4/2025 11:41	60901	DONG_T2	5	7	2	0.44	0.33	-0.11	0	0	0	0	0	0	0	0
3/4/2025 11:41	60902	DONG_T2	1	1	0	0.2	0.5	0.3	0.69	0.69	0	0	0	0	0	0
3/4/2025 11:41	60903	DONG_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/4/2025 11:41	57403	SPAN_T1	30	41	11	0.33	0.38	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/4/2025 11:41	60904	DONG_T2	5	3	-2	0.32	0.27	-0.05	0	0	0	0	0	0	0	0
3/4/2025 11:42	57403	SPAN_T1	30	41	11	0.33	0.38	0.05	0	0	0	0	0	0	0	0
3/4/2025 11:42	54502	ENOL_T2	7	6	-1	0.31	0.33	0.02	-2.08	-1.43	1	0	-1	600	0	-600
3/4/2025 11:42	54505	ENOL_T2	2	2	0	1.1	0.85	-0.25	0	0	0	0	0	0	0	0
3/4/2025 11:42	54501	ENOL_T2	6	7	1	0.43	0.43	0	0	0	0	0	0	0	0	0
3/4/2025 11:42	57401	SPAN_T1	58	145	87	0.43	0.37	-0.06	-1.17	-1.06	1	1	0	600	600	0
3/4/2025 11:42	63501	HEID_TBK1-2	3	8	5	0.17	0.28	0.11	0.11	0.15	1	1	0	900	900	0
3/4/2025 11:42	54504	ENOL_T2	1	1	0	1.6	1.2	-0.4	0	0	0	0	0	0	0	0
3/4/2025 11:43	66901	SHIL_T2	1	1	0	0.1	0.2	0.1	-1.34	-1.32	1	1	0	1200	1200	0
3/4/2025 11:44	67603	WARW_T1	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
3/4/2025 11:44	48901	FOSP_T2	0	0	0	0	0	0	0.02	0.02	1	1	0	600	600	0
3/4/2025 11:44	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 11:44	10801	CHHI_T1	9	0	-9	0.53	0	-0.53	-1.24	-1.26	2	2	0	1500	1500	0
3/4/2025 11:44	67605	WARW_T1	47	68	21	0.43	0.57	0.14	-1.11	-1.11	0	0	0	0	0	0
3/4/2025 11:44	67605	WARW_T1	47	68	21	0.43	0.57	0.14	-1.11	-1.11	0	0	0	0	0	0
3/4/2025 11:44	67605	WARW_T1	47	68	21	0.43	0.57	0.14	-1.11	-1.11	0	0	0	0	0	0
3/4/2025 11:44	67605	WARW_T1	47	68	21	0.43	0.57	0.14	-1.11	-1.11	0	0	0	0	0	0
3/4/2025 11:46	63501	HEID_TBK1-2	5	7	2	0.22	0.34	0.12	0.11	0.15	1	1	0	900	900	0
3/4/2025 11:48	54505	ENOL_T2	2	1	-1	0.85	1.4	0.55	0	0	0	0	0	0	0	0
3/4/2025 11:48	54504	ENOL_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:48	54501	ENOL_T2	7	4	-3	0.43	0.45	0.02	0	0	0	0	0	0	0	0
3/4/2025 11:48	54502	ENOL_T2	6	2	-4	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
3/4/2025 11:50	40601	PIGR_T1	1	127	126	0.1	0.22	0.12	0	0	0	0	0	0	0	0
3/4/2025 11:50	65503	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 11:50	47104	MARL_T1	0	0	0	0	0	0	-2.24	-2.26	0	0	0	0	0	0
3/4/2025 11:50	40602	PIGR_T1	0	3	3	0	0.1	0.1	-0.52	-0.5	1	1	0	600	600	0
3/4/2025 11:50	40603	PIGR_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/4/2025 11:50	47101	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 11:51	59102	WALK_T2	5	3	-2	0.58	0.23	-0.35	0	0	0	0	0	0	0	0
3/4/2025 11:51	40602	PIGR_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:51	59101	WALK_T2	1	2	1	0.5	0.15	-0.35	2.11	2.19	0	0	0	0	0	0
3/4/2025 11:51	40603	PIGR_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/4/2025 11:51	40601	PIGR_T1	1	127	126	0.1	0.22	0.12	-0.52	-0.46	0	0	0	0	0	0
3/4/2025 11:52	40601	PIGR_T1	1	127	126	0.1	0.22	0.12	0	0	0	0	0	0	0	0
3/4/2025 11:52	40603	PIGR_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/4/2025 11:52	67502	WEWI_T2	36	187	151	0.37	0.28	-0.09	0	0	0	0	0	0	0	0
3/4/2025 11:52	40602	PIGR_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:52	67503	WEWI_T2	4	8	4	0.23	0.34	0.11	0	0	0	0	0	0	0	0
3/4/2025 11:53	40602	PIGR_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:53	40603	PIGR_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/4/2025 11:53	40601	PIGR_T1	1	127	126	0.1	0.22	0.12	0	0	0	0	0	0	0	0
3/4/2025 11:54	40601	PIGR_T1	1	127	126	0.1	0.22	0.12	-0.52	-0.46	0	0	0	0	0	0
3/4/2025 11:54	40603	PIGR_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/4/2025 11:54	40602	PIGR_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:55	40601	PIGR_T1	1	127	126	0.1	0.22	0.12	0	0	0	0	0	0	0	0
3/4/2025 11:55	40603	PIGR_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/4/2025 11:55	40602	PIGR_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 11:58	60904	DONG_T2	3	2	-1	0.27	0.3	0.03	0	0	0	0	0	0	0	0
3/4/2025 11:58	60901	DONG_T2	6	3	-3	0.32	0.2	-0.12	0	0	0	0	0	0	0	0
3/4/2025 11:58	60902	DONG_T2	1	0	-1	0.5	0	-0.5	0.69	0.7	0	0	0	0	0	0
3/4/2025 11:59	63501	HEID_TBK1-2	5	7	2	0.22	0.34	0.12	0.15	0	1	1	0	900	900	0
3/4/2025 11:59	61803	EELI_T2	0	0	0	0	0	0	0.92	0.86	0	0	0	0	0	0
3/4/2025 11:59	40801	EXCH_T2	1	2	1	0.1	0.1	0	-1	-1.12	2	2	0	2400	2400	0
3/4/2025 11:59	40802	EXCH_T2	0	1	1	0	0.1	0.1	-0.36	0.11	0	0	0	0	0	0
3/4/2025 11:59	61801	EELI_T2	7	10	3	0.31	0.36	0.05	0	0	0	0	0	0	0	0
3/4/2025 12:00	61801	EELI_T2	8	9	1	0.25	0.38	0.13	0	0	0	0	0	0	0	0
3/4/2025 12:00	40801	EXCH_T2	2	0	-2	0.1	0	-0.1	-1	-1.12	2	2	0	2400	2400	0
3/4/2025 12:00	61002	DONV_T2	0	0	0	0	0	0	-1.4	-1.38	2	2	0	1200	1200	0
3/4/2025 12:00	40802	EXCH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 12:02	17401	FOHI_T1	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
3/4/2025 12:05	43401	BENT_T1	0	6	6	0	0.52	0.52	0	0	0	0	0	0	0	0
3/4/2025 12:05	43402	BENT_T1	0	1	1	0	0.3	0.3	-0.96	-0.96	1	1	0	900	900	0
3/4/2025 12:07	13503	MCMI_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
3/4/2025 12:08	57201	ROSS_T1	7	9	2	0.13	0.14	0.01	0	0	0	0	0	0	0	0
3/4/2025 12:08	57205	ROSS_T1	3	1	-2	0.53	1	0.47	0.12	0.13	0	0	0	0	0	0
3/4/2025 12:10	57205	ROSS_T1	3	1	-2	0.53	1	0.47	0.12	0.13	0	0	0	0	0	0
3/4/2025 12:10	57201	ROSS_T1	7	9	2	0.13	0.14	0.01	-0.64	-0.73	0	0	0	0	0	0
3/4/2025 12:11	13503	MCMI_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
3/4/2025 12:16	65601	QVIL_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/4/2025 12:16	65603	QVIL_T2	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
3/4/2025 12:16	65602	QVIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/4/2025 12:17	65602	QVIL_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/4/2025 12:17	65601	QVIL_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/4/2025 12:17	65603	QVIL_T2	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
3/4/2025 12:19	65702	RVIL_T2	1	6	5	0.1	0.25	0.15	-0.77	-0.78	0	0	0	0	0	0
3/4/2025 12:20	66501	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/4/2025 12:20	66502	SMAN_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/4/2025 12:20	66505	SMAN_T2	1	3	2	0.2	0.47	0.27	0	0	0	0	0	0	0	0
3/4/2025 12:20	66504	SMAN_T2	1	1	0	0.1	0.3	0.2	-1.35	-1.31	0	0	0	0	0	0
3/4/2025 12:20	65702	RVIL_T2	1	6	5	0.1	0.25	0.15	-0.77	-0.78	0	0	0	0	0	0
3/4/2025 12:21	65702	RVIL_T2	1	6	5	0.1	0.25	0.15	-3.14	-3.24	0	0	0	0	0	0
3/4/2025 12:21	43801	SWIL_T1	2	1	-1	2.55	4.8	2.25	0	0	0	0	0	0	0	0
3/4/2025 12:21	66501	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/4/2025 12:21	48301	ORWI_T1	3	2	-1	3.63	5.2	1.57	-0.3	-0.37	1	1	0	900	900	0
3/4/2025 12:21	43802	SWIL_T1	0	0	0	0	0	0	-0.46	-0.46	2	2	0	1200	1200	0
3/4/2025 12:21	66505	SMAN_T2	1	3	2	0.2	0.47	0.27	0	0	0	0	0	0	0	0
3/4/2025 12:21	66502	SMAN_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/4/2025 12:21	66504	SMAN_T2	1	1	0	0.1	0.3	0.2	-0.66	-0.56	0	0	0	0	0	0
3/4/2025 12:21	57205	ROSS_T1	1	3	2	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
3/4/2025 12:21	66901	SHIL_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 12:21	57203	ROSS_T1	0	0	0	0	0	0	-0.35	-0.32	0	0	0	0	0	0
3/4/2025 12:21	57201	ROSS_T1	7	8	1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
3/4/2025 12:22	57205	ROSS_T1	1	3	2	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
3/4/2025 12:22	66502	SMAN_T2	3	0	-3	0.2	0	-0.2	0.25	0.23	0	0	0	0	0	0
3/4/2025 12:22	66501	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/4/2025 12:22	66505	SMAN_T2	1	3	2	0.2	0.47	0.27	0	0	0	0	0	0	0	0
3/4/2025 12:22	65702	RVIL_T2	1	6	5	0.1	0.25	0.15	-0.78	-0.81	0	0	0	0	0	0
3/4/2025 12:22	57203	ROSS_T1	0	0	0	0	0	0	-0.32	-0.37	0	0	0	0	0	0
3/4/2025 12:22	66504	SMAN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/4/2025 12:22	57201	ROSS_T1	7	8	1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
3/4/2025 12:23	57201	ROSS_T1	7	8	1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
3/4/2025 12:23	57205	ROSS_T1	1	3	2	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
3/4/2025 12:23	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 12:23	57203	ROSS_T1	0	0	0	0	0	0	-0.32	-0.37	0	0	0	0	0	0
3/4/2025 12:23	43801	SWIL_T1	2	1	-1	2.55	4.8	2.25	0	0	0	0	0	0	0	0
3/4/2025 12:24	66504	SMAN_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/4/2025 12:24	67605	WARW_T1	27	23	-4	0.54	0.63	0.09	-1.17	-1.22	0	0	0	0	0	0
3/4/2025 12:24	66501	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/4/2025 12:24	67603	WARW_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/4/2025 12:24	66502	SMAN_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/4/2025 12:24	66505	SMAN_T2	1	3	2	0.2	0.47	0.27	0	0	0	0	0	0	0	0
3/4/2025 12:25	60701	BREC_T1	4	4	0	0.28	0.43	0.15	-0.54	-0.38	2	2	0	1200	1200	0
3/4/2025 12:26	60701	BREC_T1	4	4	0	0.28	0.43	0.15	-0.54	-0.38	2	2	0	1200	1200	0
3/4/2025 12:27	40505	CRES_T1	0	0	0	0	0	0	0.25	0.3	0	0	0	0	0	0
3/4/2025 12:27	40502	CRES_T2	17	18	1	0.27	0.36	0.09	0	0	0	0	0	0	0	0
3/4/2025 12:27	40501	CRES_T2	5	10	5	0.42	0.31	-0.11	0	0	0	0	0	0	0	0
3/4/2025 12:28	11301	EMMA_T1	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
3/4/2025 12:28	11302	EMMA_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 12:28	11303	EMMA_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/4/2025 12:28	40505	CRES_T1	0	0	0	0	0	0	0.5	0.6	0	0	0	0	0	0
3/4/2025 12:28	60701	BREC_T1	4	4	0	0.28	0.43	0.15	-0.54	-0.38	2	2	0	1200	1200	0
3/4/2025 12:29	40501	CRES_T2	5	10	5	0.42	0.31	-0.11	0	0	0	0	0	0	0	0
3/4/2025 12:29	40502	CRES_T2	17	18	1	0.27	0.36	0.09	0.18	0.17	0	0	0	0	0	0
3/4/2025 12:30	40502	CRES_T2	18	18	0	0.35	0.36	0.01	0	0	0	0	0	0	0	0
3/4/2025 12:30	40501	CRES_T2	10	10	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/4/2025 12:30	40505	CRES_T1	0	0	0	0	0	0	0.25	0.3	0	0	0	0	0	0
3/4/2025 12:31	40505	CRES_T1	0	0	0	0	0	0	0.25	0.3	0	0	0	0	0	0
3/4/2025 12:31	65602	QVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/4/2025 12:31	65603	QVIL_T2	0	0	0	0	0	0	0.15	0.45	0	0	0	0	0	0
3/4/2025 12:32	58201	NEWV_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
3/4/2025 12:32	58202	NEWV_T1	12	10	-2	0.68	0.67	-0.01	0.18	0.25	0	0	0	0	0	0
3/4/2025 12:33	58201	NEWV_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
3/4/2025 12:33	58202	NEWV_T1	12	10	-2	0.68	0.67	-0.01	0.36	0.5	0	0	0	0	0	0
3/4/2025 12:33	55002	NEWP_T1	8	11	3	0.65	0.92	0.27	-0.22	-0.23	0	0	0	0	0	0
3/4/2025 12:33	55001	NEWP_T1	1	3	2	0.5	0.47	-0.03	-0.46	-0.48	0	0	0	0	0	0
3/4/2025 12:35	64101	REFR_T1	11	9	-2	0.4	0.51	0.11	-0.15	-0.15	0	0	0	0	0	0
3/4/2025 12:35	40505	CRES_T1	0	0	0	0	0	0	0.25	0.3	0	0	0	0	0	0
3/4/2025 12:36	64101	REFR_T1	11	9	-2	0.4	0.51	0.11	-0.73	-0.7	0	0	0	0	0	0
3/4/2025 12:37	64101	REFR_T1	11	9	-2	0.4	0.51	0.11	-0.44	-0.42	0	0	0	0	0	0
3/4/2025 12:38	55001	NEWP_T1	1	3	2	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
3/4/2025 12:38	64101	REFR_T1	11	9	-2	0.4	0.51	0.11	-0.15	-0.14	0	0	0	0	0	0
3/4/2025 12:38	55002	NEWP_T1	8	11	3	0.65	0.92	0.27	-0.23	-0.21	0	0	0	0	0	0
3/4/2025 12:39	61101	BERK_T5	2	3	1	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
3/4/2025 12:39	55002	NEWP_T1	8	11	3	0.65	0.92	0.27	-0.23	-0.21	0	0	0	0	0	0
3/4/2025 12:39	55001	NEWP_T1	1	3	2	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
3/4/2025 12:39	64101	REFR_T1	11	9	-2	0.4	0.51	0.11	-0.15	-0.14	0	0	0	0	0	0
3/4/2025 12:39	61103	BERK_T5	1	1	0	0.1	0.2	0.1	-0.01	-0.01	0	0	0	0	0	0
3/4/2025 12:40	18001	ZION_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/4/2025 12:42	42701	AUGU_T1	1	1	0	1.1	1.5	0.4	0	0	2	2	0	1800	1800	0
3/4/2025 12:43	24103	EHAZ_T1	3	3	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
3/4/2025 12:43	24101	EHAZ_T1	58	99	41	1.76	1.9	0.14	0	0	0	0	0	0	0	0
3/4/2025 12:43	24102	EHAZ_T1	15	18	3	1.57	1.62	0.05	0.13	-0.4	0	0	0	0	0	0
3/4/2025 12:43	24105	EHAZ_T1	11	4	-7	2.81	6.48	3.67	0	0	0	0	0	0	0	0
3/4/2025 12:45	42902	MIDD_T2	1	6	5	0.2	0.6	0.4	-0.26	-0.28	0	0	0	0	0	0
3/4/2025 12:45	42903	MIDD_T2	2	2	0	0.65	1.1	0.45	0	0	0	0	0	0	0	0
3/4/2025 12:45	42901	MIDD_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 12:46	54502	ENOL_T2	4	6	2	0.25	0.35	0.1	0	0	0	0	0	0	0	0
3/4/2025 12:46	54505	ENOL_T2	3	3	0	0.93	0.87	-0.06	-0.66	-0.66	1	1	0	600	600	0
3/4/2025 12:46	54501	ENOL_T2	5	7	2	0.68	0.63	-0.05	0	0	0	0	0	0	0	0
3/4/2025 12:46	54504	ENOL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/4/2025 12:47	54504	ENOL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/4/2025 12:47	54502	ENOL_T2	4	6	2	0.25	0.35	0.1	0	0	0	0	0	0	0	0
3/4/2025 12:47	54505	ENOL_T2	3	3	0	0.93	0.87	-0.06	-0.66	-0.66	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/4/2025 12:47	54501	ENOL_T2	5	7	2	0.68	0.63	-0.05	-1.24	-1.26	1	1	0	600	600	0
3/4/2025 12:48	54502	ENOL_T2	4	6	2	0.25	0.35	0.1	0	0	0	0	0	0	0	0
3/4/2025 12:48	54501	ENOL_T2	5	7	2	0.68	0.63	-0.05	-1.24	-1.26	1	1	0	600	600	0
3/4/2025 12:48	54505	ENOL_T2	3	3	0	0.93	0.87	-0.06	0	0	0	0	0	0	0	0
3/4/2025 12:48	54504	ENOL_T2	1	1	0	1.2	1.3	0.1	-1.11	-1.11	1	1	0	600	600	0
3/4/2025 12:52	64101	REFR_T1	9	4	-5	0.51	0.43	-0.08	-0.14	-0.13	0	0	0	0	0	0
3/4/2025 12:52	65503	MOJO_T2	0	0	0	0	0	0	-1.64	-1.72	2	2	0	1800	1800	0
3/4/2025 12:54	54602	SUMM_T2	9	9	0	0.21	0.23	0.02	0	0	0	0	0	0	0	0
3/4/2025 12:54	41902	REED_T1	0	0	0	0	0	0	1.23	1.22	0	0	0	0	0	0
3/4/2025 12:54	54601	SUMM_T2	12	15	3	0.78	0.85	0.07	-1.89	-1.88	2	2	0	2100	2100	0
3/4/2025 12:55	61303	EARL_T1	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
3/4/2025 12:55	61304	EARL_T1	6	3	-3	0.27	0.47	0.2	0	0	0	0	0	0	0	0
3/4/2025 12:56	51305	WIND_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 12:56	51303	WIND_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/4/2025 12:56	51301	WIND_T1	0	9	9	0	0.44	0.44	0	0	0	0	0	0	0	0
3/4/2025 12:57	51301	WIND_T1	0	9	9	0	0.44	0.44	0	0	0	0	0	0	0	0
3/4/2025 12:57	51305	WIND_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 12:57	51303	WIND_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/4/2025 12:58	61304	EARL_T1	6	3	-3	0.27	0.47	0.2	-0.02	-0.04	0	0	0	0	0	0
3/4/2025 12:58	51304	WIND_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 12:58	46803	HEPB_T2	3	7	4	0.23	0.26	0.03	0	0	0	0	0	0	0	0
3/4/2025 12:58	51306	WIND_T2	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
3/4/2025 12:58	46801	HEPB_T2	4	17	13	0.65	0.28	-0.37	0.57	0.59	0	0	0	0	0	0
3/4/2025 12:59	46801	HEPB_T2	4	17	13	0.65	0.28	-0.37	0	0	0	0	0	0	0	0
3/4/2025 12:59	60801	BUCK_T1	2	1	-1	0.35	0.2	-0.15	0.47	-0.01	0	0	0	0	0	0
3/4/2025 12:59	46803	HEPB_T2	3	7	4	0.23	0.26	0.03	0.46	0.46	0	0	0	0	0	0
3/4/2025 13:00	46802	HEPB_T1	32	13	-19	0.32	0.48	0.16	-1.4	-1.38	0	0	0	0	0	0
3/4/2025 13:02	46506	LOHA_T1	3	4	1	4.03	3.08	-0.95	0	0	0	0	0	0	0	0
3/4/2025 13:02	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.61	0	0	0	0	0	0
3/4/2025 13:02	46504	LOHA_T1	1	14	13	0.5	0.31	-0.19	0	0	0	0	0	0	0	0
3/4/2025 13:03	47403	PENS_T1	3	3	0	0.27	0.37	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:03	47402	PENS_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/4/2025 13:03	47401	PENS_T1	0	7	7	0	0.84	0.84	0	0	0	0	0	0	0	0
3/4/2025 13:04	42902	MIDD_T2	2	8	6	0.2	0.56	0.36	0	0	0	0	0	0	0	0
3/4/2025 13:04	52403	GRPA_T2	35	24	-11	0.77	0.65	-0.12	0	0	0	0	0	0	0	0
3/4/2025 13:04	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.61	0	0	0	0	0	0
3/4/2025 13:04	46506	LOHA_T1	3	4	1	4.03	3.08	-0.95	0	0	0	0	0	0	0	0
3/4/2025 13:04	52401	GRPA_T2	1	1	0	0.7	0.8	0.1	-0.89	-0.92	0	0	0	0	0	0
3/4/2025 13:04	52402	GRPA_T2	42	33	-9	0.53	0.54	0.01	0	0	0	0	0	0	0	0
3/4/2025 13:04	42903	MIDD_T2	2	2	0	0.9	1.1	0.2	0.7	0.48	1	1	0	1200	1200	0
3/4/2025 13:04	52404	GRPA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/4/2025 13:04	46504	LOHA_T1	1	14	13	0.5	0.31	-0.19	0	0	0	0	0	0	0	0
3/4/2025 13:07	47401	PENS_T1	0	7	7	0	0.84	0.84	0.94	0.92	0	0	0	0	0	0
3/4/2025 13:07	47402	PENS_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/4/2025 13:07	47403	PENS_T1	3	3	0	0.27	0.37	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:10	54601	SUMM_T2	11	15	4	0.9	0.95	0.05	0	0	0	0	0	0	0	0
3/4/2025 13:10	54602	SUMM_T2	6	12	6	0.1	0.28	0.18	0	0	0	0	0	0	0	0
3/4/2025 13:17	47103	MARL_T2	2	3	1	0.35	0.5	0.15	-0.47	-0.52	0	0	0	0	0	0
3/4/2025 13:17	47102	MARL_T2	6	6	0	0.18	0.32	0.14	0	0	0	0	0	0	0	0
3/4/2025 13:18	55002	NEWP_T1	12	12	0	1.17	1.13	-0.04	0	0	0	0	0	0	0	0
3/4/2025 13:18	55001	NEWP_T1	4	6	2	0.55	0.52	-0.03	-0.43	-0.43	0	0	0	0	0	0
3/4/2025 13:18	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/4/2025 13:19	55001	NEWP_T1	4	6	2	0.55	0.52	-0.03	-0.43	-0.43	0	0	0	0	0	0
3/4/2025 13:19	55002	NEWP_T1	12	12	0	1.17	1.13	-0.04	0	0	0	0	0	0	0	0
3/4/2025 13:20	55002	NEWP_T1	12	12	0	1.17	1.13	-0.04	-0.25	-0.26	0	0	0	0	0	0
3/4/2025 13:20	55001	NEWP_T1	4	6	2	0.55	0.52	-0.03	0	0	0	0	0	0	0	0
3/4/2025 13:20	41902	REED_T1	0	0	0	0	0	0	1.22	1.18	0	0	0	0	0	0
3/4/2025 13:22	41902	REED_T1	0	0	0	0	0	0	1.18	1.12	0	0	0	0	0	0
3/4/2025 13:22	57205	ROSS_T1	6	11	5	0.6	0.66	0.06	0	0	0	0	0	0	0	0
3/4/2025 13:22	57201	ROSS_T1	7	21	14	0.16	0.26	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:22	67502	WEWI_T2	80	83	3	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
3/4/2025 13:22	57203	ROSS_T1	1	4	3	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/4/2025 13:22	67503	WEWI_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
3/4/2025 13:23	41902	REED_T1	0	0	0	0	0	0	1.18	1.12	0	0	0	0	0	0
3/4/2025 13:23	42701	AUGU_T1	2	6	4	0.75	0.4	-0.35	0	0	2	2	0	1800	1800	0
3/4/2025 13:24	57203	ROSS_T1	1	4	3	0.2	0.23	0.03	-0.34	-0.28	0	0	0	0	0	0
3/4/2025 13:24	57201	ROSS_T1	7	21	14	0.16	0.26	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:24	57205	ROSS_T1	6	11	5	0.6	0.66	0.06	0	0	0	0	0	0	0	0
3/4/2025 13:25	42701	AUGU_T1	2	6	4	0.75	0.4	-0.35	0	0	0	0	0	0	0	0
3/4/2025 13:27	48901	FOSP_T2	0	0	0	0	0	0	-0.17	-0.32	3	3	0	1800	1800	0
3/4/2025 13:27	41304	FISH_T2	1	1	0	0	0	0	0.05	0.15	0	0	0	0	0	0
3/4/2025 13:28	41305	FISH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:28	55508	HERS_T2	2	5	3	1.9	0.88	-1.02	0	0	0	0	0	0	0	0
3/4/2025 13:28	40502	CRES_T2	21	24	3	0.42	0.44	0.02	0.17	0.17	0	0	0	0	0	0
3/4/2025 13:28	48902	FOSP_T2	0	0	0	0	0	0	1.06	0.98	0	0	0	0	0	0
3/4/2025 13:28	41301	FISH_T1	2	2	0	1.85	2.4	0.55	0	0	0	0	0	0	0	0
3/4/2025 13:28	58401	MORO_T1	1	9	8	0.1	0.29	0.19	0	0	0	0	0	0	0	0
3/4/2025 13:28	40501	CRES_T2	11	10	-1	0.33	0.37	0.04	0	0	0	0	0	0	0	0
3/4/2025 13:28	51804	EBEN_T2	3	3	0	0.17	0.3	0.13	0	0	0	0	0	0	0	0
3/4/2025 13:28	51802	EBEN_T2	0	0	0	0	0	0	-0.01	0	1	1	0	900	900	0
3/4/2025 13:28	48901	FOSP_T2	0	0	0	0	0	0	-0.06	-0.11	1	1	0	600	600	0
3/4/2025 13:29	52401	GRPA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/4/2025 13:29	41305	FISH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:29	21403	EKET_T2	0	0	0	0	0	0	-1.33	-1.28	0	0	0	0	0	0
3/4/2025 13:29	24701	FLND_T2	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
3/4/2025 13:29	61505	EPET_T1	0	1	1	0	0.2	0.2	0.08	0.07	0	0	0	0	0	0
3/4/2025 13:29	48902	FOSP_T2	0	0	0	0	0	0	1.59	1.48	0	0	0	0	0	0
3/4/2025 13:29	64202	KINZ_T1	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
3/4/2025 13:29	24703	FLND_T2	0	3	3	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 13:29	64204	KINZ_T1	3	24	21	0.83	0.47	-0.36	0	0	0	0	0	0	0	0
3/4/2025 13:29	40502	CRES_T2	21	24	3	0.42	0.44	0.02	0.17	0.17	0	0	0	0	0	0
3/4/2025 13:29	61502	EPET_T1	0	1	1	0	0.4	0.4	-1.13	-1.12	0	0	0	0	0	0
3/4/2025 13:29	41304	FISH_T2	1	1	0	0	0	0	0.07	0.23	0	0	0	0	0	0
3/4/2025 13:29	40504	CRES_T1	0	0	0	0	0	0	-0.47	-0.4	0	0	0	0	0	0
3/4/2025 13:29	52402	GRPA_T2	32	72	40	0.52	0.39	-0.13	0	0	0	0	0	0	0	0
3/4/2025 13:29	40501	CRES_T2	11	10	-1	0.33	0.37	0.04	0	0	0	0	0	0	0	0
3/4/2025 13:29	52404	GRPA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/4/2025 13:29	58401	MORO_T1	1	9	8	0.1	0.29	0.19	-2.26	-2.22	2	2	0	1200	1200	0
3/4/2025 13:29	40505	CRES_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/4/2025 13:29	51804	EBEN_T2	3	3	0	0.17	0.3	0.13	-0.11	-0.02	1	1	0	900	900	0
3/4/2025 13:29	64402	LAND_T2	2	2	0	0.15	0.2	0.05	-0.39	-0.32	1	1	0	600	600	0
3/4/2025 13:29	41301	FISH_T1	2	2	0	1.85	2.4	0.55	-0.3	-0.31	0	0	0	0	0	0
3/4/2025 13:29	52403	GRPA_T2	15	47	32	0.44	0.58	0.14	-0.46	-0.51	0	0	0	0	0	0
3/4/2025 13:29	42401	GIMA_T1	18	16	-2	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
3/4/2025 13:29	48901	FOSP_T2	0	0	0	0	0	0	-0.12	-0.21	2	2	0	1200	1200	0
3/4/2025 13:30	17401	FOHI_T1	0	0	0	0	0	0	-2.97	-2.85	0	0	0	0	0	0
3/4/2025 13:30	58401	MORO_T1	7	8	1	0.34	0.28	-0.06	0	0	0	0	0	0	0	0
3/4/2025 13:30	47201	FAXO_T2	0	0	0	0	0	0	-2.33	-2.36	1	1	0	1200	1200	0
3/4/2025 13:30	46506	LOHA_T1	4	5	1	3.08	2.66	-0.42	-0.41	-0.38	0	0	0	0	0	0
3/4/2025 13:30	41304	FISH_T2	1	1	0	0	0	0	0.05	0.15	0	0	0	0	0	0
3/4/2025 13:30	48902	FOSP_T2	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
3/4/2025 13:30	58701	ROSE_T2	0	0	0	0	0	0	-0.3	-0.29	1	1	0	600	600	0
3/4/2025 13:30	57502	LAWN_T3	0	0	0	0	0	0	0.62	0.65	0	0	0	0	0	0
3/4/2025 13:30	64702	LITI_T2	0	0	0	0	0	0	-0.56	-0.63	0	0	0	0	0	0
3/4/2025 13:30	46504	LOHA_T1	14	55	41	0.31	0.64	0.33	0	0	0	0	0	0	0	0
3/4/2025 13:30	41301	FISH_T1	2	2	0	1.8	2.4	0.6	-0.3	-0.31	0	0	0	0	0	0
3/4/2025 13:30	57501	LAWN_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 13:30	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
3/4/2025 13:30	55508	HERS_T2	5	4	-1	0.88	1.13	0.25	0	0	1	1	0	1200	1200	0
3/4/2025 13:30	41902	REED_T1	0	1	1	0	0.2	0.2	1.18	1.12	0	0	0	0	0	0
3/4/2025 13:30	57505	LAWN_T3	8	9	1	0.29	0.34	0.05	0	0	0	0	0	0	0	0
3/4/2025 13:30	41305	FISH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/4/2025 13:30	48901	FOSP_T2	0	0	0	0	0	0	-0.12	-0.21	2	2	0	1200	1200	0
3/4/2025 13:31	48902	FOSP_T2	0	0	0	0	0	0	2.66	2.46	0	0	0	0	0	0
3/4/2025 13:31	51401	LYKE_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
3/4/2025 13:31	61502	EPET_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:31	51804	EBEN_T2	3	2	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/4/2025 13:31	57501	LAWN_T3	0	0	0	0	0	0	-2.55	-2.46	0	0	0	0	0	0
3/4/2025 13:31	61505	EPET_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/4/2025 13:31	57505	LAWN_T3	8	9	1	0.29	0.34	0.05	0	0	0	0	0	0	0	0
3/4/2025 13:31	42302	MOWR_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/4/2025 13:31	42301	MOWR_T2	0	1	1	0	0.1	0.1	-0.31	-0.32	0	0	0	0	0	0
3/4/2025 13:31	51802	EBEN_T2	0	0	0	0	0	0	-0.01	0	2	2	0	1800	1800	0
3/4/2025 13:31	58401	MORO_T1	7	8	1	0.34	0.28	-0.06	0	0	0	0	0	0	0	0
3/4/2025 13:31	64702	LITI_T2	0	0	0	0	0	0	-1.13	-1.26	0	0	0	0	0	0
3/4/2025 13:31	48901	FOSP_T2	0	0	0	0	0	0	-0.12	-0.21	2	2	0	1200	1200	0
3/4/2025 13:32	16702	MACK_T1	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
3/4/2025 13:32	51804	EBEN_T2	3	2	-1	0.3	0.2	-0.1	-0.11	-0.02	1	1	0	900	900	0
3/4/2025 13:32	17401	FOHI_T1	0	0	0	0	0	0	-0.99	-0.95	0	0	0	0	0	0
3/4/2025 13:32	64203	KINZ_T1	0	0	0	0	0	0	0.09	0.04	2	2	0	1800	1800	0
3/4/2025 13:32	44703	MUNC_T2	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
3/4/2025 13:32	44701	MUNC_T2	0	0	0	0	0	0	-1.02	-1.01	0	0	0	0	0	0
3/4/2025 13:32	64204	KINZ_T1	7	24	17	0.37	0.47	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:33	47403	PENS_T1	3	5	2	0.37	0.56	0.19	0	0	0	0	0	0	0	0
3/4/2025 13:33	64203	KINZ_T1	0	0	0	0	0	0	0.19	0.08	4	4	0	3600	3600	0
3/4/2025 13:33	63801	HEMP_T1	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
3/4/2025 13:33	64702	LITI_T2	0	0	0	0	0	0	-0.56	-0.63	0	0	0	0	0	0
3/4/2025 13:33	42301	MOWR_T2	0	1	1	0	0.1	0.1	-0.31	-0.32	0	0	0	0	0	0
3/4/2025 13:33	64204	KINZ_T1	7	24	17	0.37	0.47	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:33	63804	HEMP_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:33	25402	LAHA_T2	0	0	0	0	0	0	-0.74	-0.73	0	0	0	0	0	0
3/4/2025 13:33	47402	PENS_T1	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
3/4/2025 13:33	40901	JESH_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
3/4/2025 13:33	44201	POIN_T1	202	182	-20	0.46	0	-0.46	-1.86	-1.85	4	4	0	4200	4200	0
3/4/2025 13:33	40502	CRES_T2	24	22	-2	0.43	0.42	-0.01	0.17	0.17	0	0	0	0	0	0
3/4/2025 13:33	46504	LOHA_T1	14	55	41	0.31	0.64	0.33	0	0	0	0	0	0	0	0
3/4/2025 13:33	63802	HEMP_T1	0	2	2	0	0.1	0.1	0.16	0.13	0	0	0	0	0	0
3/4/2025 13:33	40501	CRES_T2	9	11	2	0.39	0.31	-0.08	0	0	0	0	0	0	0	0
3/4/2025 13:33	47401	PENS_T1	7	7	0	0.84	0.87	0.03	1.83	1.86	0	0	0	0	0	0
3/4/2025 13:33	40902	JESH_T1	0	2	2	0	0.1	0.1	-0.59	-0.64	0	0	0	0	0	0
3/4/2025 13:33	42302	MOWR_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/4/2025 13:33	63803	HEMP_T1	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/4/2025 13:33	58401	MORO_T1	7	8	1	0.34	0.28	-0.06	-1.13	-1.11	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/4/2025 13:33	48902	FOSP_T2	0	0	0	0	0	0	1.06	0.98	0	0	0	0	0	0
3/4/2025 13:33	46506	LOHA_T1	4	5	1	3.08	2.66	-0.42	0	0	0	0	0	0	0	0
3/4/2025 13:33	44202	POIN_T2	0	0	0	0	0	0	-0.51	-0.54	1	1	0	1200	1200	0
3/4/2025 13:34	63804	HEMP_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:34	63802	HEMP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:34	58401	MORO_T1	7	8	1	0.34	0.28	-0.06	0	0	0	0	0	0	0	0
3/4/2025 13:34	51702	OBER_T1	2	2	0	3.45	3.4	-0.05	-0.76	-0.71	1	1	0	600	600	0
3/4/2025 13:34	47401	PENS_T1	7	7	0	0.84	0.87	0.03	3.66	3.71	0	0	0	0	0	0
3/4/2025 13:34	44703	MUNC_T2	1	1	0	1	1.4	0.4	0.37	0.44	0	0	0	0	0	0
3/4/2025 13:34	42301	MOWR_T2	0	1	1	0	0.1	0.1	-0.31	-0.32	0	0	0	0	0	0
3/4/2025 13:34	60502	NMAN_T2	0	0	0	0	0	0	-0.29	-0.24	0	0	0	0	0	0
3/4/2025 13:34	57501	LAWN_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 13:34	44202	POIN_T2	0	0	0	0	0	0	-0.51	-0.54	1	1	0	1200	1200	0
3/4/2025 13:34	57704	PAXT_T2	2	0	-2	0.1	0	-0.1	-0.15	-0.16	1	1	0	900	900	0
3/4/2025 13:34	57505	LAWN_T3	8	9	1	0.29	0.34	0.05	0	0	0	0	0	0	0	0
3/4/2025 13:34	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 13:34	44201	POIN_T1	202	182	-20	0.46	0	-0.46	-1.86	-1.85	4	4	0	4200	4200	0
3/4/2025 13:34	47402	PENS_T1	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
3/4/2025 13:34	47403	PENS_T1	3	5	2	0.37	0.56	0.19	0	0	0	0	0	0	0	0
3/4/2025 13:34	40901	JESH_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
3/4/2025 13:34	63801	HEMP_T1	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
3/4/2025 13:34	60501	NMAN_T2	0	8	8	0	0.18	0.18	0	0	0	0	0	0	0	0
3/4/2025 13:34	42302	MOWR_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/4/2025 13:34	44601	SALE_T2	0	0	0	0	0	0	0.53	0.37	1	1	0	600	600	0
3/4/2025 13:34	63803	HEMP_T1	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/4/2025 13:34	48902	FOSP_T2	0	0	0	0	0	0	0.53	0.49	0	0	0	0	0	0
3/4/2025 13:34	40902	JESH_T1	0	2	2	0	0.1	0.1	-0.59	-0.64	0	0	0	0	0	0
3/4/2025 13:34	16702	MACK_T1	0	0	0	0	0	0	-1.05	-1.05	0	0	0	0	0	0
3/4/2025 13:35	63802	HEMP_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:35	42302	MOWR_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/4/2025 13:35	63801	HEMP_T1	1	4	3	0.2	0.2	0	0.07	0.27	0	0	0	0	0	0
3/4/2025 13:35	44201	POIN_T1	202	182	-20	0.46	0	-0.46	-0.93	-0.93	2	2	0	2100	2100	0
3/4/2025 13:35	57702	PAXT_T1	1	1	0	0.4	0.3	-0.1	-0.02	-0.02	0	0	0	0	0	0
3/4/2025 13:35	47402	PENS_T1	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
3/4/2025 13:35	66502	SMAN_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/4/2025 13:35	44202	POIN_T2	0	0	0	0	0	0	-0.51	-0.54	1	1	0	1200	1200	0
3/4/2025 13:35	66505	SMAN_T2	2	1	-1	0.2	0.1	-0.1	0.12	0.14	1	1	0	900	900	0
3/4/2025 13:35	63803	HEMP_T1	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/4/2025 13:35	42301	MOWR_T2	0	1	1	0	0.1	0.1	-0.31	-0.32	0	0	0	0	0	0
3/4/2025 13:35	66503	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:35	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 13:35	66504	SMAN_T2	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/4/2025 13:35	51702	OBER_T1	2	2	0	3.45	3.4	-0.05	-0.76	-0.71	1	1	0	600	600	0
3/4/2025 13:35	47401	PENS_T1	7	7	0	0.84	0.87	0.03	2.75	2.78	0	0	0	0	0	0
3/4/2025 13:35	63804	HEMP_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:35	57704	PAXT_T2	2	0	-2	0.1	0	-0.1	-0.15	-0.16	1	1	0	900	900	0
3/4/2025 13:35	47403	PENS_T1	3	5	2	0.37	0.56	0.19	0	0	0	0	0	0	0	0
3/4/2025 13:36	59202	THOM_T1	40	42	2	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
3/4/2025 13:36	63804	HEMP_T1	1	1	0	6.3	6.4	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:36	46504	LOHA_T1	14	55	41	0.31	0.64	0.33	0	0	0	0	0	0	0	0
3/4/2025 13:36	46506	LOHA_T1	4	5	1	3.08	2.66	-0.42	-0.19	-0.2	0	0	0	0	0	0
3/4/2025 13:36	63802	HEMP_T1	0	2	2	0	0.1	0.1	0.13	0.15	0	0	0	0	0	0
3/4/2025 13:36	44601	SALE_T2	0	0	0	0	0	0	0.37	0.36	1	1	0	600	600	0
3/4/2025 13:36	42201	SHEN_T2	0	0	0	0	0	0	0.15	0.14	1	1	0	600	600	0
3/4/2025 13:36	59201	THOM_T1	6	2	-4	0.22	0.55	0.33	0	0	0	0	0	0	0	0
3/4/2025 13:36	16702	MACK_T1	0	0	0	0	0	0	-3.15	-3.15	0	0	0	0	0	0
3/4/2025 13:36	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 13:36	60501	NMAN_T2	0	8	8	0	0.18	0.18	0	0	0	0	0	0	0	0
3/4/2025 13:36	63801	HEMP_T1	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
3/4/2025 13:36	63803	HEMP_T1	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/4/2025 13:37	42302	MOWR_T2	2	2	0	0.2	0.15	-0.05	0.56	0.6	0	0	0	0	0	0
3/4/2025 13:37	44703	MUNC_T2	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
3/4/2025 13:37	42301	MOWR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:37	59202	THOM_T1	40	42	2	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
3/4/2025 13:37	59201	THOM_T1	6	2	-4	0.22	0.55	0.33	0	0	0	0	0	0	0	0
3/4/2025 13:38	44203	POIN_T2	0	0	0	0	0	0	-0.56	-0.62	2	2	0	2100	2100	0
3/4/2025 13:38	44201	POIN_T1	202	182	-20	0.46	0	-0.46	-0.93	-1.1	2	2	0	2100	2100	0
3/4/2025 13:38	42201	SHEN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 13:38	48302	ORWI_T2	2	2	0	1.7	1.7	0	-0.05	-0.06	0	0	0	0	0	0
3/4/2025 13:38	41902	REED_T1	0	1	1	0	0.2	0.2	1.12	1.1	0	0	0	0	0	0
3/4/2025 13:38	66503	SMAN_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:38	66505	SMAN_T2	2	1	-1	0.2	0.1	-0.1	0.14	0.3	1	1	0	900	900	0
3/4/2025 13:38	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 13:38	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 13:38	47401	PENS_T1	7	7	0	0.84	0.87	0.03	0.93	0.74	0	0	0	0	0	0
3/4/2025 13:38	59201	THOM_T1	6	2	-4	0.22	0.55	0.33	0	0	0	0	0	0	0	0
3/4/2025 13:38	44202	POIN_T2	0	0	0	0	0	0	-0.54	-0.59	1	1	0	1200	1200	0
3/4/2025 13:38	59202	THOM_T1	40	42	2	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
3/4/2025 13:38	48303	ORWI_T2	7	7	0	0.19	0.24	0.05	0	0	0	0	0	0	0	0
3/4/2025 13:38	60501	NMAN_T2	0	8	8	0	0.18	0.18	0	0	0	0	0	0	0	0
3/4/2025 13:38	66502	SMAN_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/4/2025 13:38	66504	SMAN_T2	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/4/2025 13:38	47402	PENS_T1	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
3/4/2025 13:38	47403	PENS_T1	3	5	2	0.37	0.56	0.19	0	0	0	0	0	0	0	0
3/4/2025 13:39	43301	WATS_T2	1	1	0	0.2	0.6	0.4	0.14	0.13	0	0	0	0	0	0
3/4/2025 13:39	42201	SHEN_T2	0	0	0	0	0	0	0.15	0.14	1	1	0	600	600	0
3/4/2025 13:39	59202	THOM_T1	40	42	2	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
3/4/2025 13:39	59201	THOM_T1	6	2	-4	0.22	0.55	0.33	0	0	0	0	0	0	0	0
3/4/2025 13:39	54701	NEBL_T1	4	8	4	0.68	0.41	-0.27	0	0	1	1	0	600	600	0
3/4/2025 13:40	47401	PENS_T1	7	7	0	0.84	0.87	0.03	0.93	0.74	0	0	0	0	0	0
3/4/2025 13:40	44301	BEAV_T2	1	1	0	2.3	0.9	-1.4	0	0	0	0	0	0	0	0
3/4/2025 13:40	44302	BEAV_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/4/2025 13:40	42301	MOWR_T2	0	1	1	0	0.1	0.1	-0.32	-0.28	0	0	0	0	0	0
3/4/2025 13:40	59202	THOM_T1	40	42	2	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
3/4/2025 13:40	42302	MOWR_T2	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/4/2025 13:40	46203	DANV_T2	349	347	-2	1.14	1.18	0.04	-1.05	-1.07	0	0	0	0	0	0
3/4/2025 13:40	59201	THOM_T1	6	2	-4	0.22	0.55	0.33	0	0	0	0	0	0	0	0
3/4/2025 13:40	47403	PENS_T1	3	5	2	0.37	0.56	0.19	0	0	0	0	0	0	0	0
3/4/2025 13:40	47402	PENS_T1	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
3/4/2025 13:40	21704	SUBU_T1	0	0	0	0	0	0	-2.44	-2.31	2	2	0	2400	2400	0
3/4/2025 13:40	46206	DANV_T2	0	0	0	0	0	0	1.25	1.27	2	2	0	2100	2100	0
3/4/2025 13:40	21701	SUBU_T1	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
3/4/2025 13:40	21705	SUBU_T1	2	2	0	3.7	3.35	-0.35	0	0	0	0	0	0	0	0
3/4/2025 13:41	61301	EARL_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
3/4/2025 13:41	59102	WALK_T2	6	2	-4	0.42	0.3	-0.12	0	0	0	0	0	0	0	0
3/4/2025 13:41	44302	BEAV_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/4/2025 13:41	59202	THOM_T1	40	42	2	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
3/4/2025 13:41	44301	BEAV_T2	1	1	0	2.3	0.9	-1.4	0	0	0	0	0	0	0	0
3/4/2025 13:41	59201	THOM_T1	6	2	-4	0.22	0.55	0.33	0	0	0	0	0	0	0	0
3/4/2025 13:41	61304	EARL_T1	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
3/4/2025 13:41	59101	WALK_T2	2	0	-2	0.7	0	-0.7	1.5	1.82	0	0	0	0	0	0
3/4/2025 13:42	44302	BEAV_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/4/2025 13:42	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 13:42	44301	BEAV_T2	1	1	0	2.3	0.9	-1.4	1.22	1.5	1	1	0	600	600	0
3/4/2025 13:42	10805	CHHI_T2	1	1	0	6.9	6.9	0	-3.37	-3.39	2	2	0	2400	2400	0
3/4/2025 13:42	46203	DANV_T2	349	347	-2	1.14	1.18	0.04	-1.05	-1.07	0	0	0	0	0	0
3/4/2025 13:43	46203	DANV_T2	349	347	-2	1.14	1.18	0.04	0	0	0	0	0	0	0	0
3/4/2025 13:43	46206	DANV_T2	0	0	0	0	0	0	1.25	1.27	2	2	0	2100	2100	0
3/4/2025 13:44	46203	DANV_T2	349	347	-2	1.14	1.18	0.04	2.09	2.14	0	0	0	0	0	0
3/4/2025 13:44	52401	GRPA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/4/2025 13:44	53601	DALM_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
3/4/2025 13:44	52404	GRPA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/4/2025 13:44	10903	CDOP_T2	2	4	2	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
3/4/2025 13:44	52402	GRPA_T2	17	78	61	0.64	0.41	-0.23	0	0	0	0	0	0	0	0
3/4/2025 13:44	10805	CHHI_T2	1	1	0	6.9	6.9	0	0	0	0	0	0	0	0	0
3/4/2025 13:44	52403	GRPA_T2	24	48	24	0.64	0.58	-0.06	-0.51	-0.49	0	0	0	0	0	0
3/4/2025 13:44	46206	DANV_T2	0	0	0	0	0	0	1.25	1.27	2	2	0	2100	2100	0
3/4/2025 13:45	61304	EARL_T1	2	9	7	0.55	0.23	-0.32	0	0	0	0	0	0	0	0
3/4/2025 13:45	45802	HEGI_T2	46	48	2	1.2	1.43	0.23	0	0	0	0	0	0	0	0
3/4/2025 13:45	61301	EARL_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
3/4/2025 13:45	61306	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:45	46201	DANV_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/4/2025 13:45	53601	DALM_T2	1	1	0	0.9	1.1	0.2	0.05	0.12	0	0	0	0	0	0
3/4/2025 13:45	46206	DANV_T2	0	0	0	0	0	0	1.25	1.27	2	2	0	2100	2100	0
3/4/2025 13:45	46203	DANV_T2	324	390	66	1.23	1.42	0.19	0	0	0	0	0	0	0	0
3/4/2025 13:46	41205	KENM_T2	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
3/4/2025 13:46	52402	GRPA_T2	72	64	-8	0.39	0.43	0.04	0	0	0	0	0	0	0	0
3/4/2025 13:46	52401	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/4/2025 13:46	52404	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:46	53601	DALM_T2	1	1	0	0.9	1.1	0.2	0.05	0.12	0	0	0	0	0	0
3/4/2025 13:46	52403	GRPA_T2	47	26	-21	0.58	0.63	0.05	-0.51	-0.49	0	0	0	0	0	0
3/4/2025 13:47	57505	LAWN_T3	9	9	0	0.39	0.39	0	0	0	0	0	0	0	0	0
3/4/2025 13:47	57501	LAWN_T3	0	0	0	0	0	0	-0.82	-0.87	0	0	0	0	0	0
3/4/2025 13:50	66502	SMAN_T2	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/4/2025 13:50	52501	PROG_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 13:50	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0.14	0.3	1	1	0	900	900	0
3/4/2025 13:50	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/4/2025 13:50	66504	SMAN_T2	1	2	1	0.5	0.75	0.25	0	0	0	0	0	0	0	0
3/4/2025 13:50	66503	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/4/2025 13:51	41601	CLEV_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
3/4/2025 13:51	57505	LAWN_T3	9	9	0	0.39	0.39	0	0	0	0	0	0	0	0	0
3/4/2025 13:51	47402	PENS_T1	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
3/4/2025 13:51	66503	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/4/2025 13:51	41602	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/4/2025 13:51	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/4/2025 13:51	47401	PENS_T1	7	22	15	0.87	0.4	-0.47	0	0	0	0	0	0	0	0
3/4/2025 13:51	52501	PROG_T1	0	1	1	0	0.2	0.2	1.01	0.96	2	2	0	600	600	0
3/4/2025 13:51	47403	PENS_T1	4	5	1	0.48	0.64	0.16	0	0	0	0	0	0	0	0
3/4/2025 13:51	57501	LAWN_T3	0	0	0	0	0	0	-0.82	-0.87	0	0	0	0	0	0
3/4/2025 13:51	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0.3	0.18	1	1	0	900	900	0
3/4/2025 13:51	66502	SMAN_T2	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/4/2025 13:51	66504	SMAN_T2	1	2	1	0.5	0.75	0.25	0	0	0	0	0	0	0	0
3/4/2025 13:52	41602	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/4/2025 13:52	13801	SALI_T1	0	1	1	0	0.2	0.2	-0.62	-0.6	0	0	0	0	0	0
3/4/2025 13:52	41601	CLEV_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
3/4/2025 13:52	13806	SALI_T1	0	0	0	0	0	0	0.59	0.6	1	1	0	1200	1200	0
3/4/2025 13:52	13807	SALI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/4/2025 13:53	41601	CLEV_T1	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
3/4/2025 13:53	66501	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/4/2025 13:53	66503	SMAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/4/2025 13:53	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0.3	0.18	1	1	0	900	900	0
3/4/2025 13:53	41602	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/4/2025 13:53	66504	SMAN_T2	1	2	1	0.5	0.75	0.25	0	0	0	0	0	0	0	0
3/4/2025 13:53	66502	SMAN_T2	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/4/2025 13:54	42701	AUGU_T1	5	7	2	0.42	0.41	-0.01	0	0	0	0	0	0	0	0
3/4/2025 13:56	14602	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/4/2025 13:56	14603	SWHI_T1	0	6	6	0	0.37	0.37	0	0	0	0	0	0	0	0
3/4/2025 13:56	18001	ZION_T1	5	8	3	0.34	0.3	-0.04	0	0	0	0	0	0	0	0
3/4/2025 13:56	42701	AUGU_T1	5	7	2	0.42	0.41	-0.01	0	0	4	4	0	3600	3600	0
3/4/2025 13:56	10805	OHHI_T2	1	5	4	6.9	1.54	-5.36	-3.39	-3.41	2	2	0	2400	2400	0
3/4/2025 13:56	14601	SWHI_T1	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
3/4/2025 13:56	14604	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 13:57	45501	DERR_T2	2	2	0	0.3	0.45	0.15	-0.05	0.01	2	2	0	1800	1800	0
3/4/2025 13:57	62605	ENGL_T1	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/4/2025 13:57	62607	ENGL_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/4/2025 13:57	62602	ENGL_T1	1	1	0	0.2	0.2	0	0	0	1	0	0	0	0	0
3/4/2025 13:57	62601	ENGL_T1	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
3/4/2025 13:57	42701	AUGU_T1	5	7	2	0.42	0.41	-0.01	0	0	2	2	0	1800	1800	0
3/4/2025 13:58	18001	ZION_T1	5	8	3	0.34	0.3	-0.04	0	0	0	0	0	0	0	0
3/4/2025 13:58	45501	DERR_T2	2	2	0	0.3	0.45	0.15	-0.05	0.01	2	2	0	1800	1800	0
3/4/2025 14:00	41801	GOCI_T2	171	105	-66	0.4	0.26	-0.14	0	0	0	0	0	0	0	0
3/4/2025 14:01	45501	DERR_T2	2	1	-1	0.45	0.2	-0.25	-0.05	0.01	2	2	0	1800	1800	0
3/4/2025 14:01	40802	EXCH_T2	2	2	0	0.2	0.45	0.25	0.9	0.66	0	0	0	0	0	0
3/4/2025 14:01	40801	EXCH_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 14:01	41801	GOCI_T2	171	105	-66	0.4	0.26	-0.14	0	0	0	0	0	0	0	0
3/4/2025 14:06	13302	ORVI_T2	1	2	1	0.8	0.65	-0.15	1.36	1.34	0	0	0	0	0	0
3/4/2025 14:07	41601	CLEV_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
3/4/2025 14:07	54602	SUMM_T2	10	13	3	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/4/2025 14:07	54601	SUMM_T2	15	15	0	0.91	1.03	0.12	-1.91	-1.88	2	2	0	2100	2100	0
3/4/2025 14:07	41602	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 14:07	54603	SUMM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 14:08	55001	NEWP_T1	4	15	11	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
3/4/2025 14:08	55002	NEWP_T1	9	13	4	0.96	0.9	-0.06	-0.3	-0.28	0	0	0	0	0	0
3/4/2025 14:09	67603	WARW_T1	1	1	0	0.4	0.5	0.1	-0.01	-0.01	0	0	0	0	0	0
3/4/2025 14:09	67605	WARW_T1	24	33	9	0.64	0.59	-0.05	0	0	0	0	0	0	0	0
3/4/2025 14:13	48901	FOSP_T2	0	1	1	0	0.6	0.6	-0.17	-0.23	1	1	0	600	600	0
3/4/2025 14:13	48902	FOSP_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
3/4/2025 14:14	45501	DERR_T2	2	1	-1	0.45	0.2	-0.25	0.01	0.2	2	2	0	1800	1800	0
3/4/2025 14:15	40802	EXCH_T2	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
3/4/2025 14:15	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/4/2025 14:15	40801	EXCH_T2	1	1	0	0.2	0.1	-0.1	-0.58	-0.6	1	1	0	1200	1200	0
3/4/2025 14:15	52402	GRPA_T2	23	105	82	0.62	0.48	-0.14	0	0	0	0	0	0	0	0
3/4/2025 14:15	52401	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/4/2025 14:15	52403	GRPA_T2	15	23	8	0.43	0.66	0.23	0	0	0	0	0	0	0	0
3/4/2025 14:16	52403	GRPA_T2	15	23	8	0.43	0.66	0.23	0	0	0	0	0	0	0	0
3/4/2025 14:16	52401	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/4/2025 14:16	52402	GRPA_T2	23	105	82	0.62	0.48	-0.14	0	0	0	0	0	0	0	0
3/4/2025 14:16	41001	LAUR_T2	42	74	32	0.21	0.36	0.15	0	0	0	0	0	0	0	0
3/4/2025 14:16	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/4/2025 14:16	41002	LAUR_T2	17	49	32	0.34	0.32	-0.02	0	0	0	0	0	0	0	0
3/4/2025 14:23	45303	WBER_T2	29	14	-15	0.7	1.06	0.36	0.29	0.26	0	0	0	0	0	0
3/4/2025 14:23	45301	WBER_T2	92	104	12	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
3/4/2025 14:23	45302	WBER_T2	37	37	0	0.34	0.28	-0.06	0	0	0	0	0	0	0	0
3/4/2025 14:24	42701	AUGU_T1	3	4	1	0.53	0.45	-0.08	0	0	0	0	0	0	0	0
3/4/2025 14:25	62605	ENGL_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
3/4/2025 14:25	62607	ENGL_T1	0	3	3	0	0.1	0.1	-0.81	-0.81	0	0	0	0	0	0
3/4/2025 14:25	62602	ENGL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/4/2025 14:27	45301	WBER_T2	92	104	12	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
3/4/2025 14:27	45302	WBER_T2	37	37	0	0.34	0.28	-0.06	0	0	0	0	0	0	0	0
3/4/2025 14:27	62605	ENGL_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
3/4/2025 14:27	45303	WBER_T2	29	14	-15	0.7	1.06	0.36	0.57	0.52	0	0	0	0	0	0
3/4/2025 14:27	62607	ENGL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 14:27	44301	BEAV_T2	1	7	6	0.1	0.21	0.11	1.01	1.16	3	3	0	1800	1800	0
3/4/2025 14:27	44302	BEAV_T2	1	2	1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/4/2025 14:27	62602	ENGL_T1	1	1	0	0.2	0.3	0.1	0.05	0.04	0	0	0	0	0	0
3/4/2025 14:28	62607	ENGL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 14:28	62602	ENGL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/4/2025 14:28	44505	HAMI_T2	0	0	0	0	0	0	-0.04	-0.09	0	0	0	0	0	0
3/4/2025 14:28	62605	ENGL_T1	2	2	0	0.35	0.45	0.1	-0.88	-0.85	0	0	0	0	0	0
3/4/2025 14:28	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
3/4/2025 14:29	62602	ENGL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/4/2025 14:29	44505	HAMI_T2	0	0	0	0	0	0	-0.04	-0.09	0	0	0	0	0	0
3/4/2025 14:29	62607	ENGL_T1	0	3	3	0	0.1	0.1	-0.81	-0.81	0	0	0	0	0	0
3/4/2025 14:29	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
3/4/2025 14:29	62605	ENGL_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
3/4/2025 14:30	62605	ENGL_T1	2	3	1	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
3/4/2025 14:30	62606	ENGL_T1	0	0	0	0	0	0	-0.49	-0.52	0	0	0	0	0	0
3/4/2025 14:30	62602	ENGL_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/4/2025 14:30	62607	ENGL_T1	2	3	1	0.1	0.13	0.03	-1.62	-1.62	0	0	0	0	0	0
3/4/2025 14:30	10602	BLGL_T2	4	3	-1	0.58	0.43	-0.15	0.22	0.19	0	0	0	0	0	0
3/4/2025 14:31	62607	ENGL_T1	2	3	1	0.1	0.13	0.03	-0.81	-0.81	0	0	0	0	0	0
3/4/2025 14:31	62602	ENGL_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/4/2025 14:31	62606	ENGL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 14:31	62605	ENGL_T1	2	3	1	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
3/4/2025 14:31	62604	ENGL_T1	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
3/4/2025 14:32	62607	ENGL_T1	2	3	1	0.1	0.13	0.03	-0.81	-0.81	0	0	0	0	0	0
3/4/2025 14:32	62602	ENGL_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/4/2025 14:32	62605	ENGL_T1	2	3	1	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
3/4/2025 14:32	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 14:32	44502	HAMI_T2	1	1	0	3.3	3.6	0.3	0	0	0	0	0	0	0	0
3/4/2025 14:33	46506	LOHA_T1	4	4	0	3.38	4.03	0.65	-0.22	-0.23	0	0	0	0	0	0
3/4/2025 14:33	46504	LOHA_T1	30	47	17	0.24	0.43	0.19	0	0	0	0	0	0	0	0
3/4/2025 14:34	67101	SPRI_T2	1	1	0	0.3	1.8	1.5	0	0	0	0	0	0	0	0
3/4/2025 14:34	55002	NEWP_T1	13	12	-1	0.88	0.76	-0.12	-0.28	-0.26	0	0	0	0	0	0
3/4/2025 14:34	67102	SPRI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 14:34	67106	SPRI_T2	1	2	1	0	0.1	0.1	-2.58	-2.64	2	2	0	1800	1800	0
3/4/2025 14:34	55001	NEWP_T1	5	5	0	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
3/4/2025 14:36	13004	NBET_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/4/2025 14:36	49803	UNIV_T1	1	1	0	4.9	4.5	-0.4	0	0	0	0	0	0	0	0
3/4/2025 14:36	13002	NBET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 14:36	49804	UNIV_T1	2	1	-1	0.3	0.4	0.1	0.37	0.35	0	0	0	0	0	0
3/4/2025 14:37	49804	UNIV_T1	2	1	-1	0.3	0.4	0.1	0.37	0.35	0	0	0	0	0	0
3/4/2025 14:37	54701	NEBL_T1	5	5	0	0.64	0.58	-0.06	0	0	1	1	0	600	600	0
3/4/2025 14:37	49803	UNIV_T1	1	1	0	4.9	4.5	-0.4	-1.14	-1.08	0	0	0	0	0	0
3/4/2025 14:37	44601	SALE_T2	0	0	0	0	0	0	0.27	0.27	1	1	0	600	600	0
3/4/2025 14:38	67102	SPRI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 14:38	67106	SPRI_T2	1	2	1	0	0.1	0.1	-1.32	-1.33	1	1	0	900	900	0
3/4/2025 14:38	13002	NBET_T2	0	0	0	0	0	0	-0.41	-0.37	1	1	0	1200	1200	0
3/4/2025 14:38	40302	TAMA_T3	13	14	1	0.57	0.58	0.01	0	0	0	0	0	0	0	0
3/4/2025 14:38	40303	TAMA_T3	0	0	0	0	0	0	2.89	2.84	0	0	0	0	0	0
3/4/2025 14:38	13004	NBET_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/4/2025 14:38	67101	SPRI_T2	1	1	0	0.3	1.8	1.5	0	0	0	0	0	0	0	0
3/4/2025 14:38	49803	UNIV_T1	1	1	0	4.9	4.5	-0.4	-1.14	-1.08	0	0	0	0	0	0
3/4/2025 14:38	49804	UNIV_T1	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/4/2025 14:38	40301	TAMA_T3	6	5	-1	0.78	1	0.22	1.28	1.23	2	2	0	1800	1800	0
3/4/2025 14:39	44601	SALE_T2	0	0	0	0	0	0	0.27	0.27	1	1	0	600	600	0
3/4/2025 14:41	49804	UNIV_T1	2	1	-1	0.3	0.4	0.1	0.37	0.35	0	0	0	0	0	0
3/4/2025 14:41	49803	UNIV_T1	1	1	0	4.9	4.5	-0.4	0	0	0	0	0	0	0	0
3/4/2025 14:50	65303	NBRI_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
3/4/2025 14:58	51306	WIND_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
3/4/2025 14:58	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 15:00	16702	MACK_T1	0	0	0	0	0	0	-1.07	-1.07	0	0	0	0	0	0
3/4/2025 15:00	22602	KIMB_T1	0	0	0	0	0	0	0.13	0.24	0	0	0	0	0	0
3/4/2025 15:03	44703	MUNC_T2	1	1	0	1.7	1.8	0.1	0	0	0	0	0	0	0	0
3/4/2025 15:03	44701	MUNC_T2	1	2	1	0.1	0.15	0.05	-1.01	-1.13	0	0	0	0	0	0
3/4/2025 15:05	24201	PROV_T3	3	3	0	5.9	5.87	-0.03	-1.51	-1.49	1	1	0	1200	1200	0
3/4/2025 15:05	24202	PROV_T4	0	0	0	0	0	0	-0.82	-0.83	1	1	0	1200	1200	0
3/4/2025 15:05	24204	PROV_T3	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
3/4/2025 15:08	52401	GRPA_T2	1	4	3	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
3/4/2025 15:08	52402	GRPA_T2	16	110	94	0.58	0.33	-0.25	0	0	0	0	0	0	0	0
3/4/2025 15:08	52404	GRPA_T2	1	1	0	0.5	1.1	0.6	0	0	0	0	0	0	0	0
3/4/2025 15:08	52403	GRPA_T2	31	146	115	0.81	0.45	-0.36	-0.55	-0.44	0	0	0	0	0	0
3/4/2025 15:09	44302	BEAV_T2	3	2	-1	0.53	0.75	0.22	0.25	0.27	0	0	0	0	0	0
3/4/2025 15:09	43802	SWIL_T1	0	0	0	0	0	0	-0.29	-0.28	1	1	0	600	600	0
3/4/2025 15:09	44301	BEAV_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/4/2025 15:09	43801	SWIL_T1	12	14	2	0.54	0.51	-0.03	0	0	0	0	0	0	0	0
3/4/2025 15:10	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 15:10	10101	ALLE_T3	2	2	0	5.2	4.1	-1.1	0	0	0	0	0	0	0	0
3/4/2025 15:10	43801	SWIL_T1	12	14	2	0.54	0.51	-0.03	0	0	0	0	0	0	0	0
3/4/2025 15:10	43802	SWIL_T1	0	0	0	0	0	0	-0.29	-0.28	1	1	0	600	600	0
3/4/2025 15:13	44302	BEAV_T2	3	2	-1	0.53	0.75	0.22	0	0	0	0	0	0	0	0
3/4/2025 15:13	44301	BEAV_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/4/2025 15:14	44302	BEAV_T2	3	2	-1	0.53	0.75	0.22	0.25	0.27	0	0	0	0	0	0
3/4/2025 15:14	44301	BEAV_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/4/2025 15:15	52404	GRPA_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 15:15	52402	GRPA_T2	103	75	-28	0.33	0.36	0.03	0	0	0	0	0	0	0	0
3/4/2025 15:15	52403	GRPA_T2	146	26	-120	0.45	0.7	0.25	-0.55	-0.44	0	0	0	0	0	0
3/4/2025 15:15	52401	GRPA_T2	4	1	-3	0.35	0.2	-0.15	-0.81	-0.8	0	0	0	0	0	0
3/4/2025 15:19	52403	GRPA_T2	146	26	-120	0.45	0.7	0.25	-0.55	-0.44	0	0	0	0	0	0
3/4/2025 15:19	52404	GRPA_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 15:19	52401	GRPA_T2	4	1	-3	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
3/4/2025 15:19	52402	GRPA_T2	103	75	-28	0.33	0.36	0.03	0	0	0	0	0	0	0	0
3/4/2025 15:20	11203	ELHE_T1	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
3/4/2025 15:24	64101	REFR_T1	5	7	2	0.34	0.33	-0.01	-0.18	-0.18	0	0	0	0	0	0
3/4/2025 15:31	47104	MARL_T1	0	0	0	0	0	0	-0.92	-0.93	0	0	0	0	0	0
3/4/2025 15:36	13604	RICH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/4/2025 15:37	52501	PROG_T1	0	0	0	0	0	0	0.67	0.6	1	1	0	300	300	0
3/4/2025 15:38	13604	RICH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 15:44	63501	HEID_TBK1-2	36	22	-14	0.32	0.24	-0.08	-0.11	-0.12	1	1	0	900	900	0
3/4/2025 15:45	63501	HEID_TBK1-2	19	38	19	0.24	0.28	0.04	-0.11	-0.12	1	1	0	900	900	0
3/4/2025 15:46	63501	HEID_TBK1-2	19	38	19	0.24	0.28	0.04	-0.11	-0.12	1	1	0	900	900	0
3/4/2025 15:46	54502	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/4/2025 15:46	54505	ENOL_T2	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
3/4/2025 15:46	54501	ENOL_T2	4	4	0	0.75	0.7	-0.05	-1.33	-1.33	1	1	0	600	600	0
3/4/2025 15:47	54505	ENOL_T2	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
3/4/2025 15:47	54501	ENOL_T2	4	4	0	0.75	0.7	-0.05	0	0	0	0	0	0	0	0
3/4/2025 15:47	54502	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/4/2025 15:50	13604	RICH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 15:50	66901	SHIL_T2	6	6	0	0.28	0.23	-0.05	-1.43	-1.46	1	1	0	1200	1200	0
3/4/2025 15:50	66902	SHIL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/4/2025 15:50	66903	SHIL_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/4/2025 15:55	20103	AVOC_T1	0	0	0	0	0	0	0	-0.33	0	0	0	0	0	0
3/4/2025 15:56	10103	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 15:56	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 15:56	10101	ALLE_T3	2	2	0	3.8	5.1	1.3	0	0	0	0	0	0	0	0
3/4/2025 16:02	63801	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/4/2025 16:02	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/4/2025 16:02	63803	HEMP_T1	1	0	-1	0.2	0	-0.2	0.08	0.07	0	0	0	0	0	0
3/4/2025 16:04	63501	HEID_TBK1-2	16	38	22	0.25	0.25	0	-0.12	-0.3	1	1	0	900	900	0
3/4/2025 16:05	44201	POIN_T1	1	304	303	0.1	0.5	0.4	-1.14	-1.98	2	2	0	2100	2100	0
3/4/2025 16:06	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/4/2025 16:06	44201	POIN_T1	1	304	303	0.1	0.5	0.4	-1.98	-2.11	2	2	0	2100	2100	0
3/4/2025 16:06	63801	HEMP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/4/2025 16:06	63802	HEMP_T1	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
3/4/2025 16:06	63803	HEMP_T1	1	0	-1	0.2	0	-0.2	0.21	0.21	0	0	0	0	0	0
3/4/2025 16:08	44201	POIN_T1	1	304	303	0.1	0.5	0.4	-1.98	-2.11	2	2	0	2100	2100	0
3/4/2025 16:14	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 16:15	41301	FISH_T1	2	0	-2	0.65	0	-0.65	-0.3	-0.34	0	0	0	0	0	0
3/4/2025 16:17	41301	FISH_T1	2	0	-2	0.65	0	-0.65	-0.3	-0.34	0	0	0	0	0	0
3/4/2025 16:18	46903	MNTG_T2	0	23	23	0	0.1	0.1	-0.72	-0.78	1	1	0	600	600	0
3/4/2025 16:18	40101	HUNT_T2	0	0	0	0	0	0	-1.45	-1.46	0	0	0	0	0	0
3/4/2025 16:18	41301	FISH_T1	2	0	-2	0.65	0	-0.65	0	0	0	0	0	0	0	0
3/4/2025 16:22	14801	TREI_T2	74	32	-42	0.29	0.17	-0.12	0.33	0.36	0	0	0	0	0	0
3/4/2025 16:22	44902	SCOT_T2	683	757	74	0.43	0.67	0.24	0	0	0	0	0	0	0	0
3/4/2025 16:22	14802	TREI_T2	13	7	-6	0.33	0.21	-0.12	0	0	0	0	0	0	0	0
3/4/2025 16:22	44901	SCOT_T2	62	133	69	0.18	0.26	0.08	-0.05	-0.11	0	0	0	0	0	0
3/4/2025 16:24	58401	MORO_T1	0	0	0	0	0	0	-1.13	-1.13	1	1	0	600	600	0
3/4/2025 16:25	27502	WEIS_T2	0	0	0	0	0	0	-0.63	-0.61	0	0	0	0	0	0
3/4/2025 16:32	63804	HEMP_T1	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
3/4/2025 16:32	63801	HEMP_T1	0	0	0	0	0	0	-0.09	0.18	0	0	0	0	0	0
3/4/2025 16:33	54501	ENOL_T2	4	4	0	0.7	0.55	-0.15	-1.31	-1.32	1	1	0	600	600	0
3/4/2025 16:33	40101	HUNT_T2	0	0	0	0	0	0	-1.46	-1.47	0	0	0	0	0	0
3/4/2025 16:33	54505	ENOL_T2	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
3/4/2025 16:33	54502	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/4/2025 16:34	44902	SCOT_T2	754	727	-27	0.67	0.52	-0.15	0	0	0	0	0	0	0	0
3/4/2025 16:34	44901	SCOT_T2	130	60	-70	0.26	0.2	-0.06	-0.05	-0.11	0	0	0	0	0	0
3/4/2025 16:37	44902	SCOT_T2	754	727	-27	0.67	0.52	-0.15	0	0	0	0	0	0	0	0
3/4/2025 16:37	44901	SCOT_T2	130	60	-70	0.26	0.2	-0.06	-0.11	-0.08	0	0	0	0	0	0
3/4/2025 16:39	44901	SCOT_T2	130	60	-70	0.26	0.2	-0.06	-0.11	-0.08	0	0	0	0	0	0
3/4/2025 16:39	20102	AVOC_T1	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
3/4/2025 16:39	44902	SCOT_T2	754	727	-27	0.67	0.52	-0.15	0	0	0	0	0	0	0	0
3/4/2025 16:43	52404	GRPA_T2	1	1	0	0.6	1.1	0.5	0	0	0	0	0	0	0	0
3/4/2025 16:43	52403	GRPA_T2	4	1	-3	0.2	0.3	0.1	-0.47	-0.4	0	0	0	0	0	0
3/4/2025 16:43	52402	GRPA_T2	8	7	-1	0.71	0.99	0.28	0	0	0	0	0	0	0	0
3/4/2025 17:00	52502	PROG_T2	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
3/4/2025 17:00	61304	EARL_T1	12	27	15	0.12	0.14	0.02	-0.42	-0.6	0	0	0	0	0	0
3/4/2025 17:01	61304	EARL_T1	12	27	15	0.12	0.14	0.02	0	0	0	0	0	0	0	0
3/4/2025 17:01	61302	EARL_T1	0	0	0	0	0	0	0.34	0.29	1	1	0	1200	1200	0
3/4/2025 17:10	42601	TUSC_T1	1	0	-1	0	0	0	-0.26	-0.35	2	2	0	1800	1800	0
3/4/2025 17:15	54206	PENN_T2	0	0	0	0	0	0	0	-0.11	0	0	0	0	0	0
3/4/2025 17:20	44203	POIN_T2	0	0	0	0	0	0	-0.79	-0.74	2	2	0	2100	2100	0
3/4/2025 17:21	44202	POIN_T2	0	0	0	0	0	0	-0.8	-0.66	1	1	0	1200	1200	0
3/4/2025 17:21	24201	PROV_T3	5	3	-2	3.26	5.5	2.24	-1.49	-1.47	1	1	0	1200	1200	0
3/4/2025 17:21	24204	PROV_T3	3	3	0	1.93	1.87	-0.06	0	0	0	0	0	0	0	0
3/4/2025 17:32	64203	KINZ_T1	0	0	0	0	0	0	-0.46	-0.48	1	1	0	600	600	0
3/4/2025 17:32	64204	KINZ_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
3/4/2025 17:32	64201	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/4/2025 17:33	52202	DEVO_T2	1	1	0	0.3	0.1	-0.2	0.5	0.48	0	0	0	0	0	0
3/4/2025 17:33	52204	DEVO_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
3/4/2025 17:36	57205	ROSS_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
3/4/2025 17:39	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 17:41	57201	ROSS_T1	0	0	0	0	0	0	-0.51	-0.44	0	0	0	0	0	0
3/4/2025 17:41	60301	TWVA_T2	0	0	0	0	0	0	-3.17	-3.22	2	2	0	1800	1800	0
3/4/2025 18:24	44301	BEAV_T2	0	0	0	0	0	0	-0.2	-0.01	1	1	0	600	600	0
3/4/2025 18:28	67904	WNHO_T1	0	0	0	0	0	0	-2.19	-2.19	2	2	0	2100	2100	0
3/4/2025 18:46	54501	ENOL_T2	0	0	0	0	0	0	-1.23	-1.23	1	1	0	600	600	0
3/4/2025 18:46	54505	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/4/2025 18:52	62607	ENGL_T1	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
3/4/2025 19:01	13501	MCMI_T1	0	0	0	0	0	0	0.24	0.27	0	0	0	0	0	0
3/4/2025 19:07	64904	MILL_T1	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
3/4/2025 19:12	57401	SPAN_T1	2	2	0	0.45	0.55	0.1	-0.29	-0.3	1	1	0	600	600	0
3/4/2025 19:20	40101	HUNT_T2	0	0	0	0	0	0	-1.42	-1.47	0	0	0	0	0	0
3/4/2025 19:22	58302	NOTT_T1	0	0	0	0	0	0	-0.32	-0.23	1	1	0	1200	1200	0
3/4/2025 19:22	15404	WALL_T1	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
3/4/2025 19:27	24902	WHHA_T1	4	12	8	0.53	0.8	0.27	0.78	0.75	0	0	0	0	0	0
3/4/2025 19:41	20603	GRWO_T2	35	50	15	0.27	0.4	0.13	0.42	0.4	0	0	0	0	0	0
3/4/2025 19:45	67106	SPRI_T2	1	1	0	0	0	0	-1.31	-1.31	1	1	0	900	900	0
3/4/2025 19:47	63803	HEMP_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
3/4/2025 19:47	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
3/4/2025 19:50	13002	NBET_T2	0	0	0	0	0	0	-0.62	-0.77	2	2	0	2400	2400	0
3/4/2025 19:52	13807	SALI_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
3/4/2025 19:54	13002	NBET_T2	0	0	0	0	0	0	-0.77	-0.87	2	2	0	2400	2400	0
3/4/2025 19:56	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 19:56	14103	TRUM_T2	0	7	7	0	0.18	0.18	0	0	0	0	0	0	0	0
3/4/2025 19:56	14101	TRUM_T2	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
3/4/2025 19:56	62607	ENGL_T1	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
3/4/2025 19:56	20401	ASHF_T2	1	3	2	0.7	0.35	-0.35	0.4	0.38	0	0	0	0	0	0
3/4/2025 19:56	14102	TRUM_T2	1	1	0	3.6	3.4	-0.2	0	0	0	0	0	0	0	0
3/4/2025 19:56	10602	BLGL_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/4/2025 19:57	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 19:57	62604	ENGL_T1	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
3/4/2025 19:58	62601	ENGL_T1	0	1	1	0	0	0	-0.08	-0.07	0	0	0	0	0	0
3/4/2025 19:58	14205	TREX_T1	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
3/4/2025 19:58	66903	SHIL_T2	0	0	0	0	0	0	-1.28	-1.29	0	0	0	0	0	0
3/4/2025 19:58	48901	FOSP_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
3/4/2025 19:58	11301	EMMA_T1	0	0	0	0	0	0	-0.87	-0.9	0	0	0	0	0	0
3/4/2025 19:58	14704	TREX_T1	1	1	0	8.1	7.7	-0.4	0	0	0	0	0	0	0	0
3/4/2025 19:59	47101	MARL_T1	2	5	3	0.25	0	-0.25	0	0	0	0	0	0	0	0
3/4/2025 19:59	13502	MCMI_T1	0	0	0	0	0	0	-0.21	-0.16	0	0	0	0	0	0
3/4/2025 19:59	47104	MARL_T1	0	0	0	0	0	0	-2.27	-2.27	0	0	0	0	0	0
3/4/2025 19:59	13501	MCMI_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
3/4/2025 20:00	17802	GILB_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
3/4/2025 20:00	13001	NBET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:00	18001	ZION_T1	2	2	0	9.55	9.65	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:00	10805	OHIH_T2	6	2	-4	1.73	8.6	6.87	-1.17	-1.02	1	1	0	600	600	0
3/4/2025 20:00	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:00	17401	FOHI_T1	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
3/4/2025 20:00	12401	MILF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:00	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:00	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
3/4/2025 20:00	11901	ETEX_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
3/4/2025 20:00	13002	NBET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:00	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:01	60701	BREC_T1	0	0	0	0	0	0	-0.65	-0.65	2	2	0	1200	1200	0
3/4/2025 20:01	67106	SPRI_T2	1	1	0	0	0	0	-1.31	-1.3	1	1	0	900	900	0
3/4/2025 20:01	13501	MCMI_T1	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
3/4/2025 20:01	67904	WNHO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:01	49803	UNIV_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
3/4/2025 20:01	25402	LAHA_T2	0	0	0	0	0	0	-0.79	-0.81	0	0	0	0	0	0
3/4/2025 20:01	49804	UNIV_T1	0	0	0	0	0	0	0.42	0.51	0	0	0	0	0	0
3/4/2025 20:01	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
3/4/2025 20:01	44203	POIN_T2	0	0	0	0	0	0	-0.66	-0.66	2	2	0	2100	2100	0
3/4/2025 20:02	14801	TREI_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
3/4/2025 20:02	48901	FOSP_T2	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
3/4/2025 20:02	44201	POIN_T1	116	138	22	0.31	0.34	0.03	-4.29	-4.42	4	4	0	4200	4200	0
3/4/2025 20:02	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:02	24902	WHHA_T1	9	16	7	0.82	0.76	-0.06	0	0	0	0	0	0	0	0
3/4/2025 20:02	13801	SALI_T1	0	0	0	0	0	0	0.72	0.72	0	0	0	0	0	0
3/4/2025 20:02	44701	MUNC_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:02	44601	SALE_T2	0	0	0	0	0	0	-0.2	-0.24	0	0	0	0	0	0
3/4/2025 20:02	23401	HONE_T2	2	2	0	0.45	0	-0.45	-1.15	-1.15	0	0	0	0	0	0
3/4/2025 20:02	14704	TREX_T1	1	1	0	7.9	7.6	-0.3	0	0	0	0	0	0	0	0
3/4/2025 20:02	44301	BEAV_T2	0	0	0	0	0	0	0.17	0.09	1	1	0	600	600	0
3/4/2025 20:02	60301	TWVA_T2	0	0	0	0	0	0	-3.19	-3.24	2	2	0	1800	1800	0
3/4/2025 20:02	20401	ASHF_T2	1	2	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
3/4/2025 20:02	14601	SWHI_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
3/4/2025 20:02	20103	AVOC_T1	0	0	0	0	0	0	-0.33	-0.3	0	0	0	0	0	0
3/4/2025 20:02	43402	BENT_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	900	900	0
3/4/2025 20:02	27201	YATE_T1	10	10	0	6.37	6.24	-0.13	-2.08	-2.13	0	0	0	0	0	0
3/4/2025 20:02	63501	HEID_TBK1-2	0	1	1	0	0.8	0.8	0.37	0.39	0	0	0	0	0	0
3/4/2025 20:02	14603	SWHI_T1	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
3/4/2025 20:02	15101	UPHA_T1	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
3/4/2025 20:02	13604	RICH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:02	24901	WHHA_T1	0	0	0	0	0	0	-0.78	-0.8	0	0	0	0	0	0
3/4/2025 20:02	44703	MUNC_T2	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
3/4/2025 20:02	47001	HUGH_T2	3	3	0	7.27	7.6	0.33	-0.72	-0.75	0	0	0	0	0	0
3/4/2025 20:02	14705	TREX_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:02	10206	ALLE_T2	1	1	0	1.9	1.5	-0.4	0	0	0	0	0	0	0	0
3/4/2025 20:02	17401	FOHI_T1	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/4/2025 20:02	16702	MACK_T1	0	2	2	0	0	0	-1.03	-1.03	0	0	0	0	0	0
3/4/2025 20:02	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:02	66505	SMAN_T2	3	3	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:02	20403	ASHF_T2	0	0	0	0	0	0	0.23	0.3	0	0	0	0	0	0
3/4/2025 20:02	46203	DANV_T2	199	322	123	0.64	0.82	0.18	-1.05	-1.04	0	0	0	0	0	0
3/4/2025 20:02	66504	SMAN_T2	0	0	0	0	0	0	-1.26	-1.18	0	0	0	0	0	0
3/4/2025 20:02	11904	ETEX_T2	0	0	0	0	0	0	0.3	0.2	0	0	0	0	0	0
3/4/2025 20:02	42301	MOWR_T2	0	0	0	0	0	0	-0.37	-0.4	0	0	0	0	0	0
3/4/2025 20:02	27502	WEIS_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
3/4/2025 20:02	10102	ALLE_T2	11	12	1	1.08	6.5	5.42	0	0	0	0	0	0	0	0
3/4/2025 20:02	18001	DON_T1	2	2	0	9.55	9.65	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:03	40601	PIGR_T1	0	22	22	0	0.12	0.12	0	0	0	0	0	0	0	0
3/4/2025 20:03	66505	SMAN_T2	3	3	0	0.9	1	0.1	-0.3	-0.49	1	1	0	900	900	0
3/4/2025 20:03	40802	EXCH_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
3/4/2025 20:03	46203	DANV_T2	199	322	123	0.64	0.82	0.18	0	0	0	0	0	0	0	0
3/4/2025 20:03	46206	DANV_T2	0	0	0	0	0	0	2.37	2.44	4	4	0	4200	4200	0
3/4/2025 20:03	20403	ASHF_T2	0	0	0	0	0	0	0.23	0.3	0	0	0	0	0	0
3/4/2025 20:03	20401	ASHF_T2	1	2	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
3/4/2025 20:03	43802	SWIL_T1	0	0	0	0	0	0	-0.2	-0.25	1	1	0	600	600	0
3/4/2025 20:03	13503	MCMI_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
3/4/2025 20:03	43801	SWIL_T1	2	2	0	3.35	3.25	-0.1	0	0	0	0	0	0	0	0
3/4/2025 20:03	60701	BREC_T1	0	0	0	0	0	0	-0.65	-0.65	2	2	0	1200	1200	0
3/4/2025 20:03	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.11	0	0	0	0	0	0
3/4/2025 20:03	40301	TAMA_T3	1	5	4	0	0.13	0.13	0	0	0	0	0	0	0	0
3/4/2025 20:03	45301	WBER_T2	145	235	90	0.32	0.32	0	0	0	0	0	0	0	0	0
3/4/2025 20:03	65503	MOJO_T2	0	0	0	0	0	0	-0.15	-0.11	0	0	0	0	0	0
3/4/2025 20:03	41304	FISH_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:03	66901	SHIL_T2	0	0	0	0	0	0	-1.47	-1.47	1	1	0	1200	1200	0
3/4/2025 20:03	46903	MNTG_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	600	600	0
3/4/2025 20:03	44902	SCOT_T2	543	604	61	0.34	0.39	0.05	0	0	0	0	0	0	0	0
3/4/2025 20:03	43302	WATS_T2	3	4	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:03	44901	SCOT_T2	6	9	3	0.12	0.14	0.02	-0.14	-0.11	0	0	0	0	0	0
3/4/2025 20:03	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:03	63501	HEID_TBK1-2	0	1	1	0	0.8	0.8	0.37	0.39	0	0	0	0	0	0
3/4/2025 20:03	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
3/4/2025 20:03	41302	FISH_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:03	61505	EPET_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
3/4/2025 20:03	67106	SPRI_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:03	48301	ORWI_T1	2	2	0	4.6	4.7	0.1	0.3	0.27	0	0	0	0	0	0
3/4/2025 20:03	43301	WATS_T2	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
3/4/2025 20:03	40302	TAMA_T3	13	12	-1	0.45	0.58	0.13	0	0	0	0	0	0	0	0
3/4/2025 20:03	45303	WBER_T2	50	71	21	0.57	0.51	-0.06	-0.12	-0.15	0	0	0	0	0	0
3/4/2025 20:03	45302	WBER_T2	39	69	30	0.36	0.37	0.01	0	0	0	0	0	0	0	0
3/4/2025 20:03	40303	TAMA_T3	2	2	0	0.4	0.55	0.15	2.7	2.66	0	0	0	0	0	0
3/4/2025 20:03	44701	MUNC_T2	1	1	0	0.1	0.2	0.1	-1.35	-1.38	0	0	0	0	0	0
3/4/2025 20:04	13002	NBET_T2	0	0	0	0	0	0	-0.38	-0.44	1	1	0	1200	1200	0
3/4/2025 20:04	22602	KIMB_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
3/4/2025 20:04	10801	CHHI_T1	1	1	0	0.4	0	-0.4	-3.24	-3.14	4	4	0	3000	3000	0
3/4/2025 20:04	61304	EARL_T1	7	2	-5	0.1	0.1	0	-0.6	-0.64	0	0	0	0	0	0
3/4/2025 20:04	45302	WBER_T2	39	69	30	0.36	0.37	0.01	0.78	0.63	0	0	0	0	0	0
3/4/2025 20:04	41302	FISH_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:04	13302	ORVI_T2	0	0	0	0	0	0	2.61	2.66	0	0	0	0	0	0
3/4/2025 20:04	24204	PROV_T3	1	2	1	5.8	2.9	-2.9	0	0	0	0	0	0	0	0
3/4/2025 20:04	10102	ALLE_T2	11	12	1	1.08	6.5	5.42	0	0	0	0	0	0	0	0
3/4/2025 20:04	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:04	11407	FARM_T1	0	0	0	0	0	0	-1.28	-1.28	0	0	0	0	0	0
3/4/2025 20:04	65702	RVIL_T2	0	0	0	0	0	0	-1.04	-0.98	0	0	0	0	0	0
3/4/2025 20:04	61306	EARL_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
3/4/2025 20:04	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/4/2025 20:04	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 20:04	40502	CRES_T2	13	13	0	0.38	0.34	-0.04	0	0	0	0	0	0	0	0
3/4/2025 20:04	11202	ELHE_T2	0	0	0	0	0	0	0.35	0.37	1	1	0	1200	1200	0
3/4/2025 20:04	64203	KINZ_T1	0	0	0	0	0	0	-0.43	-0.47	1	1	0	600	600	0
3/4/2025 20:04	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:04	14705	TREX_T1	0	1	1	0	0	0	-1.64	-1.64	0	0	0	0	0	0
3/4/2025 20:04	21703	SUBU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:04	51401	LYKE_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
3/4/2025 20:04	14801	TREI_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
3/4/2025 20:04	61701	ELIZ_T1	1	1	0	5.1	5.3	0.2	-0.01	0	0	0	0	0	0	0
3/4/2025 20:04	44201	POIN_T1	116	138	22	0.31	0.34	0.03	-2.14	-2.21	2	2	0	2100	2100	0
3/4/2025 20:04	45602	WOOL_T1	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
3/4/2025 20:04	45303	WBER_T2	50	71	21	0.57	0.51	-0.06	0	0	0	0	0	0	0	0
3/4/2025 20:04	44901	SCOT_T2	6	9	3	0.12	0.14	0.02	-0.42	-0.34	0	0	0	0	0	0
3/4/2025 20:04	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:04	20601	GRWO_T2	0	0	0	0	0	0	-0.12	-0.16	0	0	0	0	0	0
3/4/2025 20:04	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:04	44902	SCOT_T2	543	604	61	0.34	0.39	0.05	0	0	0	0	0	0	0	0
3/4/2025 20:04	16702	MACK_T1	0	2	2	0	0	0	-1.03	-1.03	0	0	0	0	0	0
3/4/2025 20:04	21701	SUBU_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
3/4/2025 20:04	15101	UPHA_T1	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
3/4/2025 20:04	24101	EHAZ_T1	50	42	-8	1.07	1.02	-0.05	0	0	0	0	0	0	0	0
3/4/2025 20:04	60201	ATGL_T2	0	0	0	0	0	0	-0.13	-0.17	0	0	0	0	0	0
3/4/2025 20:04	43801	SWIL_T1	2	2	0	3.35	3.25	-0.1	0	0	0	0	0	0	0	0
3/4/2025 20:04	24105	EHAZ_T1	4	4	0	6.63	6.4	-0.23	0	0	0	0	0	0	0	0
3/4/2025 20:04	45702	LIND_T2	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
3/4/2025 20:04	67605	WARW_T1	0	0	0	0	0	0	-1.08	-0.94	0	0	0	0	0	0
3/4/2025 20:04	47401	PENS_T1	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
3/4/2025 20:04	14103	TRUM_T2	6	7	1	0.18	0.3	0.12	0	0	0	0	0	0	0	0
3/4/2025 20:04	24801	VALM_T1	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
3/4/2025 20:04	20102	AVOC_T1	0	0	0	0	0	0	-0.58	-0.62	0	0	0	0	0	0
3/4/2025 20:04	24201	PROV_T3	5	5	0	3.82	3.7	-0.12	-1.45	-1.47	1	1	0	1200	1200	0
3/4/2025 20:04	40504	CRES_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
3/4/2025 20:04	20603	GRWO_T2	48	52	4	0.41	0.39	-0.02	0	0	0	0	0	0	0	0
3/4/2025 20:04	10206	ALLE_T2	1	1	0	1.9	1.5	-0.4	0	0	0	0	0	0	0	0
3/4/2025 20:04	40501	CRES_T2	9	7	-2	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
3/4/2025 20:04	45701	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:04	40505	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:04	14601	SWHI_T1	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
3/4/2025 20:04	11406	FARM_T1	1	2	1	2.3	2.1	-0.2	0	0	0	0	0	0	0	0
3/4/2025 20:04	60801	BUCK_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
3/4/2025 20:04	11901	ETEX_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
3/4/2025 20:04	46801	HEPB_T2	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/4/2025 20:04	21705	SUBU_T1	2	2	0	3.8	5.5	1.7	0	0	0	0	0	0	0	0
3/4/2025 20:04	15103	UPHA_T2	0	0	0	0	0	0	0.39	0.36	0	0	0	0	0	0
3/4/2025 20:04	14102	TRUM_T2	1	1	0	3.4	3.2	-0.2	0	0	0	0	0	0	0	0
3/4/2025 20:04	41304	FISH_T2	1	1	0	0	0	0	-0.13	-0.1	0	0	0	0	0	0
3/4/2025 20:04	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
3/4/2025 20:04	10805	CHHI_T2	6	2	-4	1.73	8.6	6.87	-2.34	-2.03	2	2	0	1200	1200	0
3/4/2025 20:04	41202	KENM_T2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
3/4/2025 20:04	11405	FARM_T1	1	1	0	5.2	4.6	-0.6	0	0	0	0	0	0	0	0
3/4/2025 20:04	42501	ALTA_T2	0	0	0	0	0	0	-0.18	-0.15	3	3	0	1800	1800	0
3/4/2025 20:04	64702	LITI_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
3/4/2025 20:04	45301	WBER_T2	145	235	90	0.32	0.32	0	0.07	0	1	1	0	1200	1200	0
3/4/2025 20:04	17401	FOHI_T1	0	0	0	0	0	0	-1.98	-1.96	0	0	0	0	0	0
3/4/2025 20:04	46803	HEPB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:04	14604	SWHI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/4/2025 20:04	60701	BREC_T1	0	0	0	0	0	0	-1.95	-1.95	6	6	0	3600	3600	0
3/4/2025 20:04	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:04	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:04	11904	ETEX_T2	0	0	0	0	0	0	0.15	0.1	0	0	0	0	0	0
3/4/2025 20:04	13604	RICH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:04	14704	TREX_T1	1	1	0	7.9	7.6	-0.3	0	0	0	0	0	0	0	0
3/4/2025 20:04	27201	YATE_T1	10	10	0	6.37	6.24	-0.13	-2.08	-2.13	0	0	0	0	0	0
3/4/2025 20:04	24102	EHAZ_T1	16	23	7	1.35	1.14	-0.21	0.1	0.15	0	0	0	0	0	0
3/4/2025 20:04	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:05	61306	EARL_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
3/4/2025 20:05	21403	EXET_T2	0	0	0	0	0	0	-1.4	-1.41	0	0	0	0	0	0
3/4/2025 20:05	22602	KIMB_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
3/4/2025 20:05	44201	POIN_T1	116	138	22	0.31	0.34	0.03	-2.14	-2.21	2	2	0	2100	2100	0
3/4/2025 20:05	13503	MCMI_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
3/4/2025 20:05	44302	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:05	67502	WEWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:05	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:05	65206	PRIN_T4	1	1	0	4	0	-4	0	0	0	0	0	0	0	0
3/4/2025 20:05	24206	PROV_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:05	61304	EARL_T1	7	2	-5	0.1	0.1	0	0	0	0	0	0	0	0	0
3/4/2025 20:05	59201	THOM_T1	10	12	2	0.26	0.36	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:05	65207	PRIN_T4	3	5	2	3	1.25	-1.75	0	0	0	0	0	0	0	0
3/4/2025 20:05	47001	HUGH_T2	3	3	0	7.27	7.6	0.33	-0.72	-0.75	0	0	0	0	0	0
3/4/2025 20:05	59101	WALK_T2	0	0	0	0	0	0	1.52	1.11	0	0	0	0	0	0
3/4/2025 20:05	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:05	50834	WALN_T2	0	0	0	0	0	0	0	0	2	2	0	2400	2400	0
3/4/2025 20:05	64702	LITI_T2	0	0	0	0	0	0	-0.68	-0.67	0	0	0	0	0	0
3/4/2025 20:05	24202	PROV_T4	0	0	0	0	0	0	-0.86	-0.87	0	1	1	0	1200	1200
3/4/2025 20:05	48901	FOSP_T2	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
3/4/2025 20:05	59202	THOM_T1	36	159	123	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
3/4/2025 20:05	65702	RVIL_T2	0	0	0	0	0	0	-1.04	-0.98	0	0	0	0	0	0
3/4/2025 20:06	48302	ORWI_T2	2	2	0	1.45	1.7	0.25	-0.11	-0.07	0	0	0	0	0	0
3/4/2025 20:06	14401	SSLA_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
3/4/2025 20:06	44505	HAMI_T2	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
3/4/2025 20:06	44502	HAMI_T2	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
3/4/2025 20:06	44801	EDAN_T2	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
3/4/2025 20:06	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:06	40601	PIGR_T1	0	22	22	0	0.12	0.12	0	0	0	0	0	0	0	0
3/4/2025 20:06	10206	ALLE_T2	1	1	0	1.9	1.5	-0.4	0	0	0	0	0	0	0	0
3/4/2025 20:06	14404	SSLA_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
3/4/2025 20:06	59202	THOM_T1	36	159	123	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
3/4/2025 20:06	10805	CHHI_T2	6	2	-4	1.73	8.6	6.87	-2.34	-2.03	2	2	0	1200	1200	0
3/4/2025 20:06	14603	SWHI_T1	0	0	0	0	0	0	-0.7	-0.68	0	0	0	0	0	0
3/4/2025 20:06	17401	FOHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:06	63501	HEID_TBK1-2	0	1	1	0	0.8	0.8	0.78	0.66	0	0	0	0	0	0
3/4/2025 20:06	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:06	14601	SWHI_T1	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/4/2025 20:06	13904	SEID_T1	15	20	5	0.61	0.37	-0.24	0	0	0	0	0	0	0	0
3/4/2025 20:06	44701	MUNC_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:06	42501	ALTA_T2	0	0	0	0	0	0	-0.05	-0.03	1	1	0	600	600	0
3/4/2025 20:06	40505	CRES_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
3/4/2025 20:06	59201	THOM_T1	10	12	2	0.26	0.36	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:06	46802	HEPB_T1	0	0	0	0	0	0	-0.28	-0.33	0	0	0	0	0	0
3/4/2025 20:06	61304	EARL_T1	7	2	-5	0.1	0.1	0	0	0	0	0	0	0	0	0
3/4/2025 20:06	61303	EARL_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
3/4/2025 20:06	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:06	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:06	64702	LITI_T2	0	0	0	0	0	0	-0.67	-0.72	0	0	0	0	0	0
3/4/2025 20:06	14602	SWHI_T1	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
3/4/2025 20:06	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:06	10102	ALLE_T2	11	12	1	1.08	6.5	5.42	0	0	0	0	0	0	0	0
3/4/2025 20:06	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:06	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:06	62607	ENGL_T1	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
3/4/2025 20:06	67904	WNHO_T1	0	0	0	0	0	0	-2.2	-2.19	2	2	0	2100	2100	0
3/4/2025 20:06	42902	MIDD_T2	0	0	0	0	0	0	-0.45	-0.48	0	0	0	0	0	0
3/4/2025 20:07	59202	THOM_T1	36	159	123	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
3/4/2025 20:07	65702	RVIL_T2	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
3/4/2025 20:07	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:07	48902	FOSP_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
3/4/2025 20:07	42503	ALTA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:07	40801	EXCH_T2	0	0	0	0	0	0	-0.58	-0.56	1	1	0	1200	1200	0
3/4/2025 20:07	46501	LOHA_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/4/2025 20:07	53601	DALM_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/4/2025 20:07	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.22	0	0	0	0	0	0
3/4/2025 20:07	65802	RTWN_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
3/4/2025 20:07	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
3/4/2025 20:07	61304	EARL_T1	7	2	-5	0.1	0.1	0	-0.32	-0.32	0	0	0	0	0	0
3/4/2025 20:07	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:07	42601	TUSC_T1	9	13	4	1.02	1.48	0.46	-0.31	-0.37	2	2	0	1800	1800	0
3/4/2025 20:07	63306	GREE_T1	0	0	0	0	0	0	-1.25	-1.25	0	0	0	0	0	0
3/4/2025 20:07	61506	EPET_T2	0	0	0	0	0	0	-1	-1.05	1	1	0	900	900	0
3/4/2025 20:07	46506	LOHA_T1	3	3	0	2.73	2.33	-0.4	0	0	0	0	0	0	0	0
3/4/2025 20:07	63305	GREE_T1	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:07	55002	NEWP_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/4/2025 20:07	60701	BREC_T1	0	0	0	0	0	0	-0.65	-0.67	2	2	0	1200	1200	0
3/4/2025 20:07	44201	POIN_T1	116	138	22	0.31	0.34	0.03	-2.21	-2.2	2	2	0	2100	2100	0
3/4/2025 20:07	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:07	47401	PENS_T1	0	0	0	0	0	0	1.26	1.36	0	0	0	0	0	0
3/4/2025 20:07	49803	UNIV_T1	1	1	0	5.4	5.4	0	-1.18	-1.17	0	0	0	0	0	0
3/4/2025 20:07	42501	ALTA_T2	0	0	0	0	0	0	-0.05	-0.03	1	1	0	600	600	0
3/4/2025 20:07	41902	REED_T1	2	0	-2	0.25	0	-0.25	1.01	1.03	0	0	0	0	0	0
3/4/2025 20:07	59201	THOM_T1	10	12	2	0.26	0.36	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:07	40902	JESH_T1	0	0	0	0	0	0	-1.72	-1.74	0	0	0	0	0	0
3/4/2025 20:07	66901	SHIL_T2	0	0	0	0	0	0	-1.47	-1.48	1	1	0	1200	1200	0
3/4/2025 20:07	46203	DANV_T2	199	322	123	0.64	0.82	0.18	-1.04	-1.06	0	0	0	0	0	0
3/4/2025 20:07	55001	NEWP_T1	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
3/4/2025 20:07	44301	BEAV_T2	0	0	0	0	0	0	0.09	0.01	1	1	0	600	600	0
3/4/2025 20:07	64704	LITI_T1	0	0	0	0	0	0	0.3	0.22	1	1	0	600	600	0
3/4/2025 20:07	44502	HAMI_T2	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
3/4/2025 20:07	62607	ENGL_T1	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
3/4/2025 20:07	40901	JESH_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/4/2025 20:07	62606	ENGL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:07	42301	MCWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:07	41901	REED_T1	8	9	1	0.34	0.46	0.12	0	0	0	0	0	0	0	0
3/4/2025 20:07	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
3/4/2025 20:07	67904	WNHO_T1	0	0	0	0	0	0	-4.4	-4.38	4	4	0	4200	4200	0
3/4/2025 20:08	14704	TREX_T1	1	1	0	7.9	7.6	-0.3	0	0	0	0	0	0	0	0
3/4/2025 20:08	60201	ATGL_T2	0	0	0	0	0	0	-0.17	-0.12	0	0	0	0	0	0
3/4/2025 20:08	42503	ALTA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:08	41902	REED_T1	2	0	-2	0.25	0	-0.25	1.01	1.03	0	0	0	0	0	0
3/4/2025 20:08	48901	FOSP_T2	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
3/4/2025 20:08	41304	FISH_T2	1	1	0	0	0	0	-0.2	-0.16	0	0	0	0	0	0
3/4/2025 20:08	42501	ALTA_T2	0	0	0	0	0	0	-0.05	-0.03	1	1	0	600	600	0
3/4/2025 20:08	65603	OVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:08	20403	ASHF_T2	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
3/4/2025 20:08	14602	SWHI_T1	0	0	0	0	0	0	0.19	0.16	0	0	0	0	0	0
3/4/2025 20:08	10101	ALLE_T3	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
3/4/2025 20:08	44901	SCOT_T2	6	9	3	0.12	0.14	0.02	0	0	0	0	0	0	0	0
3/4/2025 20:08	44902	SCOT_T2	543	604	61	0.34	0.39	0.05	-0.94	-0.92	0	0	0	0	0	0
3/4/2025 20:08	17401	FOHI_T1	0	0	0	0	0	0	-0.98	-1	0	0	0	0	0	0
3/4/2025 20:08	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
3/4/2025 20:08	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:08	14603	SWHI_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
3/4/2025 20:08	46002	BERW_T2	183	212	29	0.24	0.26	0.02	0	0	0	0	0	0	0	0
3/4/2025 20:08	41901	REED_T1	8	9	1	0.34	0.46	0.12	0	0	0	0	0	0	0	0
3/4/2025 20:08	41002	LAUR_T2	1	1	0	1.3	2.1	0.8	0	0	0	0	0	0	0	0
3/4/2025 20:08	14802	TREI_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
3/4/2025 20:08	11405	FARM_T1	1	1	0	5.2	4.6	-0.6	0	0	0	0	0	0	0	0
3/4/2025 20:08	13002	NBET_T2	0	0	0	0	0	0	-0.44	-0.44	1	1	0	1200	1200	0
3/4/2025 20:08	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	2	2	0	1200	1200	0
3/4/2025 20:08	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:08	45701	LIND_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
3/4/2025 20:08	11406	FARM_T1	1	2	1	2.3	2.1	-0.2	0	0	0	0	0	0	0	0
3/4/2025 20:08	63305	GREE_T1	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:08	42401	GIMA_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:08	41302	FISH_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:08	47401	PENS_T1	0	0	0	0	0	0	0.63	0.68	0	0	0	0	0	0
3/4/2025 20:08	16702	MACK_T1	0	2	2	0	0	0	-1.03	-1.03	0	0	0	0	0	0
3/4/2025 20:08	45302	WBER_T2	39	69	30	0.36	0.37	0.01	0	0	0	0	0	0	0	0
3/4/2025 20:08	14601	SWHI_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
3/4/2025 20:08	63306	GREE_T1	0	0	0	0	0	0	-1.25	-1.25	0	0	0	0	0	0
3/4/2025 20:08	46003	BERW_T2	295	311	16	0.29	0.34	0.05	0	0	0	0	0	0	0	0
3/4/2025 20:08	10801	CHHI_T1	1	1	0	0.4	0	-0.4	-1.57	-1.62	2	2	0	1500	1500	0
3/4/2025 20:08	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.26	1	1	0	600	600	0
3/4/2025 20:08	65702	RVIL_T2	0	0	0	0	0	0	-1.96	-2.04	0	0	0	0	0	0
3/4/2025 20:08	55002	NEWP_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/4/2025 20:08	41001	LAUR_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
3/4/2025 20:08	61002	DONV_T2	0	0	0	0	0	0	-0.74	-0.77	1	1	0	600	600	0
3/4/2025 20:08	46203	DANV_T2	199	322	123	0.64	0.82	0.18	0	0	0	0	0	0	0	0
3/4/2025 20:08	44202	POIN_T2	0	0	0	0	0	0	-0.79	-0.89	1	1	0	1200	1200	0
3/4/2025 20:08	61301	EARL_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
3/4/2025 20:08	46004	BERW_T2	94	134	40	0.16	0.18	0.02	-0.43	-0.46	0	0	0	0	0	0
3/4/2025 20:08	55001	NEWP_T1	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
3/4/2025 20:08	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:08	45702	LIND_T2	1	1	0	1	0.6	-0.4	0	0	0	0	0	0	0	0
3/4/2025 20:08	41301	FISH_T1	3	3	0	1.63	1.7	0.07	-0.33	-0.31	0	0	0	0	0	0
3/4/2025 20:08	40505	CRES_T1	0	0	0	0	0	0	0.75	0.69	0	0	0	0	0	0
3/4/2025 20:08	14404	SSLA_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
3/4/2025 20:08	13502	MCMI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:08	44203	POIN_T2	0	0	0	0	0	0	-0.66	-0.68	2	2	0	2100	2100	0
3/4/2025 20:08	14705	TREX_T1	0	1	1	0	0	0	-0.82	-0.84	0	0	0	0	0	0
3/4/2025 20:08	10109	ALLE_T3	5	5	0	2.02	0.2	-1.82	0	0	0	0	0	0	0	0
3/4/2025 20:08	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:08	14401	SSLA_T1	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
3/4/2025 20:08	61304	EARL_T1	7	2	-5	0.1	0.1	0	0	0	0	0	0	0	0	0
3/4/2025 20:08	44701	MUNC_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:08	23401	HONE_T2	2	2	0	0.45	0	-0.45	-1.15	-1.24	0	0	0	0	0	0
3/4/2025 20:08	46206	DANV_T2	0	0	0	0	0	0	1.22	1.18	2	2	0	2100	2100	0
3/4/2025 20:08	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:08	14706	TREX_T1	0	0	0	0	0	0	-1.68	-1.74	2	2	0	2100	2100	0
3/4/2025 20:08	59201	THOM_T1	10	12	2	0.26	0.36	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:08	43202	MVIL_T2	0	1	1	0	0	0	-0.7	-0.71	0	0	0	0	0	0
3/4/2025 20:08	61801	EELI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:08	45303	WBER_T2	50	71	21	0.57	0.51	-0.06	-0.15	-0.13	0	0	0	0	0	0
3/4/2025 20:08	66901	SHIL_T2	0	0	0	0	0	0	-1.47	-1.48	1	1	0	1200	1200	0
3/4/2025 20:08	10105	ALLE_T3	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:08	67603	WARW_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
3/4/2025 20:08	40801	EXCH_T2	0	0	0	0	0	0	-0.58	-0.56	1	1	0	1200	1200	0
3/4/2025 20:08	20401	ASHF_T2	1	2	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
3/4/2025 20:08	11407	FARM_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
3/4/2025 20:08	45301	WBER_T2	145	235	90	0.32	0.32	0	0	0	0	0	0	0	0	0
3/4/2025 20:08	59202	THOM_T1	36	159	123	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
3/4/2025 20:08	27201	YATE_T1	10	10	0	6.37	6.24	-0.13	-2.13	-2.12	0	0	0	0	0	0
3/4/2025 20:09	61304	EARL_T1	7	2	-5	0.1	0.1	0	-0.32	-0.32	0	0	0	0	0	0
3/4/2025 20:09	41304	FISH_T2	1	1	0	0	0	0	-0.2	-0.16	0	0	0	0	0	0
3/4/2025 20:09	60501	NMAN_T2	2	5	3	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/4/2025 20:09	23401	HONE_T2	2	2	0	0.45	0	-0.45	-1.15	-1.24	0	0	0	0	0	0
3/4/2025 20:09	65205	PRIN_T1	1	1	0	1.8	1.7	-0.1	0	0	0	0	0	0	0	0
3/4/2025 20:09	46803	HEPB_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
3/4/2025 20:09	46002	BERW_T2	183	212	29	0.24	0.26	0.02	0	0	0	0	0	0	0	0
3/4/2025 20:09	44601	SALE_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
3/4/2025 20:09	24104	EHAZ_T1	0	0	0	0	0	0	-2.23	-2.22	1	1	0	1200	1200	0
3/4/2025 20:09	40603	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:09	45501	DERR_T2	0	0	0	0	0	0	0.15	0.13	2	2	0	1800	1800	0
3/4/2025 20:09	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:09	40504	CRES_T1	0	0	0	0	0	0	-0.54	-0.53	0	0	0	0	0	0
3/4/2025 20:09	20401	ASHF_T2	1	2	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
3/4/2025 20:09	51101	CARL_T1	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
3/4/2025 20:09	55002	NEWP_T1	2	2	0	0.7	0.55	-0.15	-0.29	-0.28	0	0	0	0	0	0
3/4/2025 20:09	47201	FAXO_T2	0	0	0	0	0	0	-2.31	-2.3	1	1	0	1200	1200	0
3/4/2025 20:09	42903	MIDD_T2	0	0	0	0	0	0	-0.17	-0.3	0	0	0	0	0	0
3/4/2025 20:09	64203	KINZ_T1	0	0	0	0	0	0	-0.47	-0.46	1	1	0	600	600	0
3/4/2025 20:09	42601	TUSC_T1	9	13	4	1.02	1.48	0.46	-0.31	-0.37	2	2	0	1800	1800	0
3/4/2025 20:09	24105	EHAZ_T1	4	4	0	6.63	6.4	-0.23	0	0	0	0	0	0	0	0
3/4/2025 20:09	41302	FISH_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:09	24901	WHHA_T1	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
3/4/2025 20:09	62605	ENGL_T1	0	0	0	0	0	0	-0.87	-0.87	0	0	0	0	0	0
3/4/2025 20:09	27502	WEIS_T2	0	0	0	0	0	0	-0.52	-0.59	0	0	0	0	0	0
3/4/2025 20:09	43302	WATS_T2	3	4	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/4/2025 20:09	40505	CRES_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
3/4/2025 20:09	46501	LOHA_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/4/2025 20:09	48302	ORWI_T2	2	2	0	1.45	1.7	0.25	0	0	0	0	0	0	0	0
3/4/2025 20:09	24902	WHHA_T1	9	16	7	0.82	0.76	-0.06	0	0	0	0	0	0	0	0
3/4/2025 20:09	44801	EDAN_T2	0	0	0	0	0	0	-0.47	-0.48	0	0	0	0	0	0
3/4/2025 20:09	13503	MCMI_T2	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
3/4/2025 20:09	65303	NBRI_T2	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
3/4/2025 20:09	21705	SUBU_T1	2	2	0	3.8	5.5	1.7	0	0	0	0	0	0	0	0
3/4/2025 20:09	59302	MCAL_T1	0	1	1	0	0.3	0.3	-0.66	-0.65	1	1	0	600	600	0
3/4/2025 20:09	52503	PROG_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
3/4/2025 20:09	48303	ORWI_T2	0	0	0	0	0	0	0.98	0.96	0	0	0	0	0	0
3/4/2025 20:09	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:09	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 20:09	66505	SMAN_T2	3	3	0	0.9	1	0.1	-0.49	-0.45	1	1	0	900	900	0
3/4/2025 20:09	43304	WATS_T2	0	0	0	0	0	0	-0.26	-0.21	0	0	0	0	0	0
3/4/2025 20:09	43801	SWIL_T1	2	2	0	3.35	3.25	-0.1	0	0	0	0	0	0	0	0
3/4/2025 20:09	24102	EHAZ_T1	16	23	7	1.35	1.14	-0.21	0	0	0	0	0	0	0	0
3/4/2025 20:09	44901	SCOT_T2	6	9	3	0.12	0.14	0.02	0	0	0	0	0	0	0	0
3/4/2025 20:09	24101	EHAZ_T1	50	42	-8	1.07	1.02	-0.05	0	0	0	0	0	0	0	0
3/4/2025 20:09	61306	EARL_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/4/2025 20:09	47401	PENS_T1	0	0	0	0	0	0	1.26	1.36	0	0	0	0	0	0
3/4/2025 20:09	44202	POIN_T2	0	0	0	0	0	0	-1.58	-1.77	2	2	0	2400	2400	0
3/4/2025 20:09	65202	PRIN_T1	3	5	2	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
3/4/2025 20:09	48902	FOSP_T2	0	0	0	0	0	0	0.15	0.17	0	0	0	0	0	0
3/4/2025 20:09	65203	PRIN_T1	3	2	-1	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
3/4/2025 20:09	51107	CARL_T1	0	6	6	0	0.18	0.18	0	0	0	0	0	0	0	0
3/4/2025 20:09	47403	PENS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:09	48901	FOSP_T2	0	0	0	0	0	0	0.46	0.4	0	0	0	0	0	0
3/4/2025 20:09	46801	HEPB_T2	2	2	0	0.1	0.15	0.05	0.48	0.47	0	0	0	0	0	0
3/4/2025 20:09	60201	ATGL_T2	0	0	0	0	0	0	-0.35	-0.24	0	0	0	0	0	0
3/4/2025 20:09	21704	SUBU_T1	0	0	0	0	0	0	-2.62	-2.61	2	2	0	2400	2400	0
3/4/2025 20:09	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:09	42201	SHEN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:09	62602	ENGL_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
3/4/2025 20:09	60101	COCA_T1	0	0	0	0	0	0	0.15	0.18	0	0	0	0	0	0
3/4/2025 20:09	59301	MCAL_T1	5	15	10	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
3/4/2025 20:09	61302	EARL_T1	0	0	0	0	0	0	1.3	1.27	0	0	0	0	0	0
3/4/2025 20:09	46506	LOHA_T1	3	3	0	2.73	2.33	-0.4	-0.21	-0.21	0	0	0	0	0	0
3/4/2025 20:09	21703	SUBU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:09	65502	MOJO_T2	0	0	0	0	0	0	-1.05	-1.08	0	0	0	0	0	0
3/4/2025 20:09	21701	SUBU_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
3/4/2025 20:09	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/4/2025 20:09	43802	SWIL_T1	0	0	0	0	0	0	-0.25	-0.24	1	1	0	600	600	0
3/4/2025 20:09	60801	BUCK_T1	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
3/4/2025 20:09	51109	CARL_T1	0	0	0	0	0	0	-1.02	-1.03	1	1	0	1200	1200	0
3/4/2025 20:09	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	2	2	0	1200	1200	0
3/4/2025 20:09	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:09	46004	BERW_T2	94	134	40	0.16	0.18	0.02	-0.43	-0.46	0	0	0	0	0	0
3/4/2025 20:09	46003	BERW_T2	295	311	16	0.29	0.34	0.05	0	0	0	0	0	0	0	0
3/4/2025 20:09	44902	SCOT_T2	543	604	61	0.34	0.39	0.05	-0.94	-0.92	0	0	0	0	0	0
3/4/2025 20:09	42501	ALTA_T2	0	0	0	0	0	0	-0.1	-0.06	2	2	0	1200	1200	0
3/4/2025 20:09	67903	WNHO_T1	0	0	0	0	0	0	1.47	1.28	1	1	0	1200	1200	0
3/4/2025 20:09	44201	POIN_T1	116	138	22	0.31	0.34	0.03	-2.21	-2.2	2	2	0	2100	2100	0
3/4/2025 20:09	67904	WNHO_T1	0	0	0	0	0	0	-4.4	-4.38	4	4	0	4200	4200	0
3/4/2025 20:09	41301	FISH_T1	3	3	0	1.63	1.7	0.07	0	0	0	0	0	0	0	0
3/4/2025 20:09	40601	PIGR_T1	0	22	22	0	0.12	0.12	0	0	0	0	0	0	0	0
3/4/2025 20:09	66504	SMAN_T2	0	0	0	0	0	0	-0.59	-0.63	0	0	0	0	0	0
3/4/2025 20:09	20403	ASHF_T2	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
3/4/2025 20:10	60902	DONG_T2	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
3/4/2025 20:10	42503	ALTA_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
3/4/2025 20:10	61301	EARL_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
3/4/2025 20:10	13604	RICH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:10	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
3/4/2025 20:10	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/4/2025 20:10	46002	BERW_T2	183	212	29	0.24	0.26	0.02	0	0	0	0	0	0	0	0
3/4/2025 20:10	59202	THOM_T1	36	159	123	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
3/4/2025 20:10	18001	ZION_T1	2	2	0	9.55	9.65	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:10	59201	THOM_T1	10	12	2	0.26	0.36	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:10	10102	ALLE_T2	11	12	1	1.08	6.5	5.42	0	0	0	0	0	0	0	0
3/4/2025 20:10	60903	DONG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:10	50302	CEDA_T2	0	0	0	0	0	0	0.74	0.72	0	0	0	0	0	0
3/4/2025 20:10	45702	LIND_T2	1	1	0	1	0.6	-0.4	-1.28	-1.19	0	0	0	0	0	0
3/4/2025 20:10	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:10	48902	FOSP_T2	0	0	0	0	0	0	0.2	0.23	0	0	0	0	0	0
3/4/2025 20:10	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:10	57401	SPAN_T1	2	2	0	0.55	0.75	0.2	-0.91	-0.86	3	3	0	1800	1800	0
3/4/2025 20:10	46004	BERW_T2	94	134	40	0.16	0.18	0.02	-0.43	-0.46	0	0	0	0	0	0
3/4/2025 20:10	14802	TREI_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
3/4/2025 20:10	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:10	11001	EGRE_T1	0	0	0	0	0	0	-0.37	-0.37	1	1	0	1200	1200	0
3/4/2025 20:10	14705	TREX_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:10	52204	DEVO_T2	2	4	2	0.5	0.65	0.15	0	0	0	0	0	0	0	0
3/4/2025 20:10	65702	RVIL_T2	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
3/4/2025 20:10	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:10	44301	BEAV_T2	0	0	0	0	0	0	0.28	0.03	3	3	0	1800	1800	0
3/4/2025 20:10	61306	EARL_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/4/2025 20:10	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:10	10206	ALLE_T2	1	1	0	1.9	1.5	-0.4	0	0	0	0	0	0	0	0
3/4/2025 20:10	48901	FOSP_T2	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
3/4/2025 20:10	55002	NEWP_T1	2	2	0	0.7	0.55	-0.15	-0.58	-0.56	0	0	0	0	0	0
3/4/2025 20:10	63501	HEID_TBK1-2	0	1	1	0	0.8	0.8	0.39	0.33	0	0	0	0	0	0
3/4/2025 20:10	61304	EARL_T1	7	2	-5	0.1	0.1	0	0	0	0	0	0	0	0	0
3/4/2025 20:10	52202	DEVO_T2	0	0	0	0	0	0	0.52	0.48	0	0	0	0	0	0
3/4/2025 20:10	14704	TREX_T1	1	1	0	7.9	7.6	-0.3	0	0	0	0	0	0	0	0
3/4/2025 20:10	44701	MUNC_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:10	40801	EXCH_T2	0	0	0	0	0	0	-0.58	-0.56	1	1	0	1200	1200	0
3/4/2025 20:10	16702	MACK_T1	0	2	2	0	0	0	-1.03	-1.03	0	0	0	0	0	0
3/4/2025 20:10	14603	SWHI_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
3/4/2025 20:10	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:10	24801	VALM_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
3/4/2025 20:10	14601	SWHI_T1	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
3/4/2025 20:10	57203	ROSS_T1	0	0	0	0	0	0	-0.38	-0.35	0	0	0	0	0	0
3/4/2025 20:10	67605	WARW_T1	0	0	0	0	0	0	-0.94	-0.9	0	0	0	0	0	0
3/4/2025 20:10	54506	ENOL_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
3/4/2025 20:10	61505	EPET_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:10	14706	TREX_T1	0	0	0	0	0	0	-1.68	-1.74	2	2	0	2100	2100	0
3/4/2025 20:10	46003	BERW_T2	295	311	16	0.29	0.34	0.05	0	0	0	0	0	0	0	0
3/4/2025 20:10	46102	MACI_T1	4	9	5	0.18	0.14	-0.04	0.64	0.64	0	0	0	0	0	0
3/4/2025 20:11	41901	REED_T1	8	9	1	0.34	0.46	0.12	0	0	0	0	0	0	0	0
3/4/2025 20:11	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:11	51107	CARL_T1	0	6	6	0	0.18	0.18	0	0	0	0	0	0	0	0
3/4/2025 20:11	51101	CARL_T1	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
3/4/2025 20:11	47101	MARL_T1	5	2	-3	0.24	0	-0.24	0	0	0	0	0	0	0	0
3/4/2025 20:11	57702	PAXT_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
3/4/2025 20:11	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/4/2025 20:11	40501	CRES_T2	9	7	-2	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
3/4/2025 20:11	63303	GREE_T1	0	0	0	0	0	0	-0.84	-0.84	2	2	0	1800	1800	0
3/4/2025 20:11	52502	PROG_T2	0	0	0	0	0	0	-0.68	-0.7	1	1	0	900	900	0
3/4/2025 20:11	57401	SPAN_T1	2	2	0	0.55	0.75	0.2	-0.3	-0.29	1	1	0	600	600	0
3/4/2025 20:11	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:11	51102	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:11	40603	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:11	40101	HUNT_T2	0	0	0	0	0	0	-1.46	-1.46	0	0	0	0	0	0
3/4/2025 20:11	67903	WNHO_T1	0	0	0	0	0	0	1.47	1.28	1	1	0	1200	1200	0
3/4/2025 20:11	45901	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
3/4/2025 20:11	42501	ALTA_T2	0	0	0	0	0	0	-0.05	-0.03	1	1	0	600	600	0
3/4/2025 20:11	63501	HEID_TBK1-2	0	1	1	0	0.8	0.8	0.39	0.33	0	0	0	0	0	0
3/4/2025 20:11	40601	PIGR_T1	0	22	22	0	0.12	0.12	0	0	0	0	0	0	0	0
3/4/2025 20:11	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.26	1	1	0	600	600	0
3/4/2025 20:11	44902	SCOT_T2	543	604	61	0.34	0.39	0.05	-0.94	-0.92	0	0	0	0	0	0
3/4/2025 20:11	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/4/2025 20:11	60701	BREC_T1	0	0	0	0	0	0	-2.59	-2.68	8	8	0	4800	4800	0
3/4/2025 20:11	63305	GREE_T1	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:11	47103	MARL_T2	0	1	1	0	0	0	-0.54	-0.58	0	0	0	0	0	0
3/4/2025 20:11	40502	CRES_T2	13	13	0	0.38	0.34	-0.04	0.18	0.18	0	0	0	0	0	0
3/4/2025 20:11	45301	WBER_T2	145	235	90	0.32	0.32	0	-0.07	-0.07	1	1	0	1200	1200	0
3/4/2025 20:11	47102	MARL_T2	9	11	2	0.13	0.15	0.02	0	0	0	0	0	0	0	0
3/4/2025 20:11	44502	HAMI_T2	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
3/4/2025 20:11	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:11	64203	KINZ_T1	0	0	0	0	0	0	-0.47	-0.46	1	1	0	600	600	0
3/4/2025 20:11	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:11	66505	SMAN_T2	3	3	0	0.9	1	0.1	-0.99	-0.91	2	2	0	1800	1800	0
3/4/2025 20:11	61304	EARL_T1	7	2	-5	0.1	0.1	0	-0.32	-0.32	0	0	0	0	0	0
3/4/2025 20:11	63304	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:11	60501	NMAN_T2	2	5	3	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/4/2025 20:11	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	-0.65	-0.65	1	1	0	600	600	0
3/4/2025 20:11	45302	WBER_T2	39	69	30	0.36	0.37	0.01	0	0	0	0	0	0	0	0
3/4/2025 20:11	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 20:11	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:11	41902	REED_T1	2	0	-2	0.25	0	-0.25	1.01	1.03	0	0	0	0	0	0
3/4/2025 20:11	44701	MUNC_T2	1	1	0	0.1	0.2	0.1	-1.38	-1.36	0	0	0	0	0	0
3/4/2025 20:11	42301	MOWR_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
3/4/2025 20:11	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:11	67502	WEWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:11	44901	SCOT_T2	6	9	3	0.12	0.14	0.02	0	0	0	0	0	0	0	0
3/4/2025 20:11	45303	WBER_T2	50	71	21	0.57	0.51	-0.06	0	0	0	0	0	0	0	0
3/4/2025 20:11	44505	HAMI_T2	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
3/4/2025 20:11	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:11	41301	FISH_T1	3	3	0	1.63	1.7	0.07	-0.33	-0.31	0	0	0	0	0	0
3/4/2025 20:11	51109	CARL_T1	0	0	0	0	0	0	-1.02	-1.03	1	1	0	1200	1200	0
3/4/2025 20:11	44201	POIN_T1	116	138	22	0.31	0.34	0.03	-4.42	-4.41	4	4	0	4200	4200	0
3/4/2025 20:11	62607	ENGL_T1	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
3/4/2025 20:11	47104	MARL_T1	0	0	0	0	0	0	-2.27	-2.29	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/4/2025 20:12	42201	SHEN_T2	0	0	0	0	0	0	0.11	0.14	1	1	0	600	600	0
3/4/2025 20:12	57501	LAWN_T3	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
3/4/2025 20:12	10105	ALLE_T3	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:12	41304	FISH_T2	1	1	0	0	0	0	-0.2	-0.16	0	0	0	0	0	0
3/4/2025 20:12	41902	REED_T1	2	0	-2	0.25	0	-0.25	1.01	1.03	0	0	0	0	0	0
3/4/2025 20:12	54502	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:12	40505	CRES_T1	0	0	0	0	0	0	0.5	0.46	0	0	0	0	0	0
3/4/2025 20:12	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:12	61304	EARL_T1	7	2	-5	0.1	0.1	0	-0.32	-0.32	0	0	0	0	0	0
3/4/2025 20:12	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 20:12	51109	CARL_T1	0	0	0	0	0	0	-1.02	-1.03	1	1	0	1200	1200	0
3/4/2025 20:12	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:12	50624	CCTY_T2	2	2	0	6.65	6.5	-0.15	0	0	0	0	0	0	0	0
3/4/2025 20:12	41901	REED_T1	8	9	1	0.34	0.46	0.12	0	0	0	0	0	0	0	0
3/4/2025 20:12	40801	EXCH_T2	0	0	0	0	0	0	-0.58	-0.56	1	1	0	1200	1200	0
3/4/2025 20:12	42302	MOWR_T2	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
3/4/2025 20:12	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:12	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/4/2025 20:12	13806	SALI_T1	0	0	0	0	0	0	0.37	0.41	1	1	0	1200	1200	0
3/4/2025 20:12	67605	WARW_T1	0	0	0	0	0	0	-0.94	-0.9	0	0	0	0	0	0
3/4/2025 20:12	46901	MNTG_T2	0	0	0	0	0	0	1.14	1.07	0	0	0	0	0	0
3/4/2025 20:12	42301	MOWR_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
3/4/2025 20:12	10206	ALLE_T2	1	1	0	1.9	1.5	-0.4	0	0	0	0	0	0	0	0
3/4/2025 20:12	50623	CCTY_T2	6	6	0	7.3	6.95	-0.35	0	0	0	0	0	0	0	0
3/4/2025 20:12	15101	UPHA_T1	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
3/4/2025 20:12	10109	ALLE_T3	5	5	0	2.02	0.2	-1.82	0	0	0	0	0	0	0	0
3/4/2025 20:12	14605	SWHI_T1	0	0	0	0	0	0	0.94	0.9	1	1	0	1200	1200	0
3/4/2025 20:12	11301	EMMA_T1	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
3/4/2025 20:12	46203	DANV_T2	199	322	123	0.64	0.82	0.18	0	0	0	0	0	0	0	0
3/4/2025 20:12	62606	ENGL_T1	0	0	0	0	0	0	-0.69	-0.68	0	0	0	0	0	0
3/4/2025 20:12	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:12	64702	LITI_T2	0	0	0	0	0	0	-1.33	-1.44	0	0	0	0	0	0
3/4/2025 20:12	41302	FISH_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:12	41301	FISH_T1	3	3	0	1.63	1.7	0.07	0	0	0	0	0	0	0	0
3/4/2025 20:12	44201	POIN_T1	116	138	22	0.31	0.34	0.03	-2.21	-2.2	2	2	0	2100	2100	0
3/4/2025 20:12	67401	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:12	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:12	50625	CCTY_T2	4	5	1	5.43	4.22	-1.21	0	0	0	0	0	0	0	0
3/4/2025 20:12	52404	GRPA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:12	65702	RVIL_T2	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
3/4/2025 20:12	42503	ALTA_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
3/4/2025 20:12	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	1	1	0	600	600	0
3/4/2025 20:12	10801	CHHI_T1	1	1	0	0.4	0	-0.4	-1.57	-1.62	2	2	0	1500	1500	0
3/4/2025 20:12	40502	CRES_T2	13	13	0	0.38	0.34	-0.04	0.18	0.18	0	0	0	0	0	0
3/4/2025 20:12	10102	ALLE_T2	11	12	1	1.08	6.5	5.42	0	0	0	0	0	0	0	0
3/4/2025 20:12	58201	NEWV_T1	1	2	1	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
3/4/2025 20:12	40601	PIGR_T1	0	22	22	0	0.12	0.12	0	0	0	0	0	0	0	0
3/4/2025 20:12	55503	HERS_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
3/4/2025 20:12	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:12	63802	HEMP_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
3/4/2025 20:12	66505	SMAN_T2	3	3	0	0.9	1	0.1	-0.49	-0.45	1	1	0	900	900	0
3/4/2025 20:12	11406	FARM_T1	1	2	1	2.3	2.1	-0.2	0	0	0	0	0	0	0	0
3/4/2025 20:12	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:12	51107	CARL_T1	0	6	6	0	0.18	0.18	0	0	0	0	0	0	0	0
3/4/2025 20:12	62607	ENGL_T1	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
3/4/2025 20:12	14603	SWHI_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
3/4/2025 20:12	51101	CARL_T1	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
3/4/2025 20:12	59201	THOM_T1	10	12	2	0.26	0.36	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:12	52402	GRPA_T2	4	4	0	1.05	0.8	-0.25	0	0	0	0	0	0	0	0
3/4/2025 20:12	60701	BREC_T1	0	0	0	0	0	0	-0.65	-0.67	2	2	0	1200	1200	0
3/4/2025 20:12	57505	LAWN_T3	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/4/2025 20:12	63501	HEID_TBK1-2	0	1	1	0	0.8	0.8	0.78	0.66	0	0	0	0	0	0
3/4/2025 20:12	51301	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:12	64101	REFR_T1	0	0	0	0	0	0	-0.34	-0.4	0	0	0	0	0	0
3/4/2025 20:12	64203	KINZ_T1	0	0	0	0	0	0	-0.95	-0.92	2	2	0	1200	1200	0
3/4/2025 20:12	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:12	43202	MVIL_T2	0	1	1	0	0	0	-0.7	-0.71	0	0	0	0	0	0
3/4/2025 20:12	46206	DANV_T2	0	0	0	0	0	0	1.22	1.18	2	2	0	2100	2100	0
3/4/2025 20:12	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:12	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:12	11404	FARM_T1	0	0	0	0	0	0	-0.8	-0.74	1	1	0	1200	1200	0
3/4/2025 20:12	14601	SWHI_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
3/4/2025 20:12	10101	ALLE_T3	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
3/4/2025 20:12	59202	THOM_T1	36	159	123	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
3/4/2025 20:12	57402	SPAN_T2	0	0	0	0	0	0	-0.6	-0.6	0	0	0	0	0	0
3/4/2025 20:12	40802	EXCH_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
3/4/2025 20:12	24201	PROV_T3	5	5	0	3.82	3.7	-0.12	-1.47	-1.46	1	1	0	1200	1200	0
3/4/2025 20:12	24204	PROV_T3	1	2	1	5.8	2.9	-2.9	0	0	0	0	0	0	0	0
3/4/2025 20:12	44202	POIN_T2	0	0	0	0	0	0	-0.79	-0.89	1	1	0	1200	1200	0
3/4/2025 20:12	15104	UPHA_T2	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
3/4/2025 20:12	40501	CRES_T2	9	7	-2	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
3/4/2025 20:12	11405	FARM_T1	1	1	0	5.2	4.6	-0.6	0	0	0	0	0	0	0	0
3/4/2025 20:12	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
3/4/2025 20:12	48902	FOSP_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
3/4/2025 20:12	40602	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:12	52501	PROG_T1	0	0	0	0	0	0	0.47	0.43	1	1	0	300	300	0
3/4/2025 20:13	41301	FISH_T1	3	3	0	1.63	1.7	0.07	-0.33	-0.31	0	0	0	0	0	0
3/4/2025 20:13	47401	PENS_T1	0	0	0	0	0	0	1.26	1.36	0	0	0	0	0	0
3/4/2025 20:13	65901	SAKR_T2	1	1	0	8.7	9.2	0.5	0	0	0	0	0	0	0	0
3/4/2025 20:13	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:13	40505	CRES_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
3/4/2025 20:13	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	-0.65	-0.65	1	1	0	600	600	0
3/4/2025 20:13	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:13	52502	PROG_T2	0	0	0	0	0	0	-0.68	-0.7	1	1	0	900	900	0
3/4/2025 20:13	60201	ATGL_T2	0	0	0	0	0	0	-0.17	-0.12	0	0	0	0	0	0
3/4/2025 20:13	40501	CRES_T2	9	7	-2	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
3/4/2025 20:13	40502	CRES_T2	13	13	0	0.38	0.34	-0.04	0.18	0.18	0	0	0	0	0	0
3/4/2025 20:13	51101	CARL_T1	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
3/4/2025 20:13	65904	SAKR_T2	0	0	0	0	0	0	-1.93	-1.91	2	2	0	900	900	0
3/4/2025 20:13	65503	MOJO_T2	0	0	0	0	0	0	-0.21	-0.14	0	0	0	0	0	0
3/4/2025 20:13	64402	LAND_T2	0	0	0	0	0	0	-0.61	-0.59	1	1	0	600	600	0
3/4/2025 20:13	45802	HEGI_T2	19	17	-2	0.39	0.42	0.03	1.68	1.66	0	0	0	0	0	0
3/4/2025 20:13	40801	EXCH_T2	0	0	0	0	0	0	-1.16	-1.12	2	2	0	2400	2400	0
3/4/2025 20:13	41902	REED_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
3/4/2025 20:13	64902	MILL_T2	0	0	0	0	0	0	-0.48	-0.47	0	0	0	0	0	0
3/4/2025 20:13	66901	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:13	48902	FOSP_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
3/4/2025 20:13	55001	NEWP_T1	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
3/4/2025 20:13	64704	LITI_T1	0	0	0	0	0	0	0.3	0.22	1	1	0	600	600	0
3/4/2025 20:13	58102	NEKI_T1	1	1	0	0.8	1	0.2	0.05	0.06	0	0	0	0	0	0
3/4/2025 20:13	57205	ROSS_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
3/4/2025 20:13	52403	GRPA_T2	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
3/4/2025 20:13	42201	SHEN_T2	0	0	0	0	0	0	0.11	0.14	1	1	0	600	600	0
3/4/2025 20:13	60502	NMAN_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
3/4/2025 20:13	45501	DERR_T2	0	0	0	0	0	0	0.15	0.13	2	2	0	1800	1800	0
3/4/2025 20:13	46203	DANV_T2	199	322	123	0.64	0.82	0.18	-2.08	-2.12	0	0	0	0	0	0
3/4/2025 20:13	60501	NMAN_T2	2	5	3	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/4/2025 20:13	51804	EBEN_T2	3	3	0	0.47	0.6	0.13	-0.23	-0.25	1	1	0	900	900	0
3/4/2025 20:13	43304	WATS_T2	0	0	0	0	0	0	-0.26	-0.21	0	0	0	0	0	0
3/4/2025 20:13	63803	HEMP_T1	0	0	0	0	0	0	1.74	1.74	0	0	0	0	0	0
3/4/2025 20:13	67401	WAKE_T2	0	0	0	0	0	0	-1.22	-1.26	0	0	0	0	0	0
3/4/2025 20:13	51107	CARL_T1	0	6	6	0	0.18	0.18	0	0	0	0	0	0	0	0
3/4/2025 20:13	44502	HAMI_T2	1	1	0	2.7	2.9	0.2	0	0	0	0	0	0	0	0
3/4/2025 20:13	54601	SUMM_T2	4	3	-1	0.18	0.17	-0.01	-1.84	-1.86	2	2	0	2100	2100	0
3/4/2025 20:13	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/4/2025 20:13	53601	DALM_T2	1	1	0	0.4	0.2	-0.2	-0.19	-0.14	0	0	0	0	0	0
3/4/2025 20:13	43802	SWIL_T1	0	0	0	0	0	0	-0.25	-0.24	1	1	0	600	600	0
3/4/2025 20:13	52404	GRPA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:13	46901	MNTG_T2	0	0	0	0	0	0	1.14	1.07	0	0	0	0	0	0
3/4/2025 20:13	48901	FOSP_T2	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
3/4/2025 20:13	57403	SPAN_T1	0	0	0	0	0	0	0.01	-0.03	0	0	0	0	0	0
3/4/2025 20:13	57201	ROSS_T1	0	0	0	0	0	0	-1.54	-1.56	0	0	0	0	0	0
3/4/2025 20:13	57501	LAWN_T3	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
3/4/2025 20:13	63801	HEMP_T1	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
3/4/2025 20:13	24701	FLND_T2	18	6	-12	0.63	0	-0.63	0.44	0.44	0	0	0	0	0	0
3/4/2025 20:13	44202	POIN_T2	0	0	0	0	0	0	-0.79	-0.89	1	1	0	1200	1200	0
3/4/2025 20:13	67901	WNHO_T2	0	0	0	0	0	0	-1.08	-1.02	2	2	0	1800	1800	0
3/4/2025 20:13	51109	CARL_T1	0	0	0	0	0	0	-1.02	-1.03	1	1	0	1200	1200	0
3/4/2025 20:13	24703	FLND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:13	52402	GRPA_T2	4	4	0	1.05	0.8	-0.25	0	0	0	0	0	0	0	0
3/4/2025 20:13	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:13	66505	SMAN_T2	3	3	0	0.9	1	0.1	-0.49	-0.45	1	1	0	900	900	0
3/4/2025 20:13	41901	REED_T1	8	9	1	0.34	0.46	0.12	-1.52	-1.5	1	1	0	900	900	0
3/4/2025 20:13	67605	WARW_T1	0	0	0	0	0	0	-0.94	-0.9	0	0	0	0	0	0
3/4/2025 20:13	42902	MIDD_T2	0	0	0	0	0	0	-0.45	-0.48	0	0	0	0	0	0
3/4/2025 20:13	54206	PENN_T2	0	0	0	0	0	0	-0.12	-0.09	0	0	0	0	0	0
3/4/2025 20:13	64202	KINZ_T1	0	2	2	0	0.2	0.2	0.64	0.67	0	0	0	0	0	0
3/4/2025 20:13	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:13	63501	HEID_TBK1-2	0	1	1	0	0.8	0.8	0.39	0.33	0	0	0	0	0	0
3/4/2025 20:13	42501	ALTA_T2	0	0	0	0	0	0	-0.15	-0.09	3	3	0	1800	1800	0
3/4/2025 20:13	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
3/4/2025 20:13	51304	WIND_T2	0	0	0	0	0	0	0.4	0.36	0	0	0	0	0	0
3/4/2025 20:13	63805	GREE_T1	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:13	40602	PIGR_T1	0	0	0	0	0	0	-0.61	-0.64	1	1	0	600	600	0
3/4/2025 20:13	57505	LAWN_T3	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/4/2025 20:13	51102	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:13	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:13	61801	EELI_T2	0	0	0	0	0	0	-0.43	-0.45	0	0	0	0	0	0
3/4/2025 20:13	55503	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:13	57401	SPAN_T1	2	2	0	0.55	0.75	0.2	-0.3	-0.29	1	1	0	600	600	0
3/4/2025 20:13	61502	EPET_T1	0	0	0	0	0	0	-0.99	-0.95	0	0	0	0	0	0
3/4/2025 20:13	51702	OBER_T1	2	2	0	3.05	3.2	0.15	-0.92	-0.92	1	1	0	600	600	0
3/4/2025 20:13	51802	EBEN_T2	0	0	0	0	0	0	-0.51	-0.45	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/4/2025 20:13	40101	HUNT_T2	0	0	0	0	0	0	-1.46	-1.46	0	0	0	0	0	0
3/4/2025 20:13	63306	GREE_T1	0	0	0	0	0	0	-1.25	-1.25	0	0	0	0	0	0
3/4/2025 20:13	55002	NEWP_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/4/2025 20:13	64204	KINZ_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/4/2025 20:13	42102	FRAI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:13	43302	WATS_T2	3	4	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:13	64101	REFR_T1	0	0	0	0	0	0	-0.34	-0.4	0	0	0	0	0	0
3/4/2025 20:13	43801	SWIL_T1	2	2	0	3.35	3.25	-0.1	0	0	0	0	0	0	0	0
3/4/2025 20:13	40601	PIGR_T1	0	22	22	0	0.12	0.12	-0.19	-0.23	0	0	0	0	0	0
3/4/2025 20:13	61001	DONV_T1	0	0	0	0	0	0	-0.39	-0.22	0	0	0	0	0	0
3/4/2025 20:13	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:13	57704	PAXT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:14	58201	NEWV_T1	1	2	1	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
3/4/2025 20:14	49803	UNIV_T1	1	1	0	5.4	5.4	0	-1.18	-1.17	0	0	0	0	0	0
3/4/2025 20:14	57201	ROSS_T1	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
3/4/2025 20:14	52004	LING_T2	2	2	0	6.05	6	-0.05	0.3	0.21	0	0	0	0	0	0
3/4/2025 20:14	57501	LAWN_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:14	52503	PROG_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
3/4/2025 20:14	42902	MIDD_T2	0	0	0	0	0	0	-0.45	-0.48	0	0	0	0	0	0
3/4/2025 20:14	65503	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:14	48901	FOSP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:14	58202	NEWV_T1	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
3/4/2025 20:14	20403	ASHF_T2	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
3/4/2025 20:14	58701	ROSE_T2	0	0	0	0	0	0	-0.32	-0.32	1	1	0	600	600	0
3/4/2025 20:14	57505	LAWN_T3	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/4/2025 20:14	45301	WBER_T2	145	235	90	0.32	0.32	0	0	0	0	0	0	0	0	0
3/4/2025 20:14	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:14	20603	GRWO_T2	48	52	4	0.41	0.39	-0.02	0	0	0	0	0	0	0	0
3/4/2025 20:14	46501	LOHA_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/4/2025 20:14	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
3/4/2025 20:14	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.26	0	0	0	0	0	0
3/4/2025 20:14	66505	SMAN_T2	3	3	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:14	52404	GRPA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:14	52402	GRPA_T2	4	4	0	1.05	0.8	-0.25	0	0	0	0	0	0	0	0
3/4/2025 20:14	67602	WARW_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/4/2025 20:14	42601	TUSC_T1	9	13	4	1.02	1.48	0.46	-0.31	-0.37	2	2	0	1800	1800	0
3/4/2025 20:14	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:14	52006	LING_T2	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:14	52403	GRPA_T2	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
3/4/2025 20:14	43302	WATS_T2	3	4	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:14	52001	LING_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
3/4/2025 20:14	40502	CRES_T2	13	13	0	0.38	0.34	-0.04	0	0	0	0	0	0	0	0
3/4/2025 20:14	20601	GRWO_T2	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
3/4/2025 20:14	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/4/2025 20:14	57403	SPAN_T1	0	0	0	0	0	0	0.03	-0.05	0	0	0	0	0	0
3/4/2025 20:14	42501	ALTA_T2	0	0	0	0	0	0	-0.05	-0.03	1	1	0	600	600	0
3/4/2025 20:14	41301	FISH_T1	3	3	0	1.63	1.7	0.07	-0.33	-0.31	0	0	0	0	0	0
3/4/2025 20:14	54504	ENOL_T2	0	0	0	0	0	0	-1.09	-1.09	1	1	0	600	600	0
3/4/2025 20:14	57401	SPAN_T1	2	2	0	0.55	0.75	0.2	-0.61	-0.57	2	2	0	1200	1200	0
3/4/2025 20:14	67401	WAKE_T2	0	0	0	0	0	0	-2.44	-2.52	0	0	0	0	0	0
3/4/2025 20:14	61001	DONV_T1	0	0	0	0	0	0	-0.39	-0.22	0	0	0	0	0	0
3/4/2025 20:14	47101	MARL_T1	5	2	-3	0.24	0	-0.24	0	0	0	0	0	0	0	0
3/4/2025 20:14	41901	REED_T1	8	9	1	0.34	0.46	0.12	0	0	0	0	0	0	0	0
3/4/2025 20:14	48902	FOSP_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
3/4/2025 20:14	54601	SUMM_T2	4	3	-1	0.18	0.17	-0.01	-3.68	-3.72	4	4	0	4200	4200	0
3/4/2025 20:14	65603	QVIL_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
3/4/2025 20:14	67601	WARW_T2	0	0	0	0	0	0	-0.61	-0.68	0	0	0	0	0	0
3/4/2025 20:14	40802	EXCH_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
3/4/2025 20:14	44201	POIN_T1	116	138	22	0.31	0.34	0.03	0	0	0	0	0	0	0	0
3/4/2025 20:14	45302	WBER_T2	39	69	30	0.36	0.37	0.01	0	0	0	0	0	0	0	0
3/4/2025 20:14	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:14	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:14	47104	MARL_T1	0	0	0	0	0	0	-2.27	-2.29	0	0	0	0	0	0
3/4/2025 20:14	55002	NEWP_T1	2	2	0	0.7	0.55	-0.15	-0.29	-0.28	0	0	0	0	0	0
3/4/2025 20:14	52502	PROG_T2	0	0	0	0	0	0	-1.36	-1.4	2	2	0	1800	1800	0
3/4/2025 20:14	40301	TAMA_T3	1	5	4	0	0.13	0.13	1.1	1.22	2	2	0	1800	1800	0
3/4/2025 20:14	46506	LOHA_T1	3	3	0	2.73	2.33	-0.4	-0.21	-0.21	0	0	0	0	0	0
3/4/2025 20:14	54603	SUMM_T2	0	0	0	0	0	0	0.02	0	1	1	0	900	900	0
3/4/2025 20:14	61803	EELI_T2	0	0	0	0	0	0	0.72	0.71	0	0	0	0	0	0
3/4/2025 20:14	40601	PIGR_T1	0	22	22	0	0.12	0.12	0	0	0	0	0	0	0	0
3/4/2025 20:14	54501	ENOL_T2	0	0	0	0	0	0	-1.21	-1.2	1	1	0	600	600	0
3/4/2025 20:14	58401	MORO_T1	0	0	0	0	0	0	-6.29	-6.3	5	5	0	3000	3000	0
3/4/2025 20:14	52401	GRPA_T2	0	0	0	0	0	0	-0.8	-0.83	0	0	0	0	0	0
3/4/2025 20:14	51802	EBEN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:14	64101	REFR_T1	0	0	0	0	0	0	-1.02	-1.2	0	0	0	0	0	0
3/4/2025 20:14	43304	WATS_T2	0	0	0	0	0	0	-0.26	-0.21	0	0	0	0	0	0
3/4/2025 20:14	42301	MOWR_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
3/4/2025 20:14	59201	THOM_T1	10	12	2	0.26	0.36	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:14	51702	OBER_T1	2	2	0	3.05	3.2	0.15	-0.92	-0.92	1	1	0	600	600	0
3/4/2025 20:14	51804	EBEN_T2	3	3	0	0.47	0.6	0.13	0	0	0	0	0	0	0	0
3/4/2025 20:14	48302	ORWI_T2	2	2	0	1.45	1.7	0.25	-0.11	-0.07	0	0	0	0	0	0
3/4/2025 20:14	57704	PAXT_T2	0	0	0	0	0	0	-0.2	-0.18	1	1	0	900	900	0
3/4/2025 20:14	57702	PAXT_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
3/4/2025 20:14	61304	EARL_T1	7	2	-5	0.1	0.1	0	-0.32	-0.32	0	0	0	0	0	0
3/4/2025 20:14	63801	HEMP_T1	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
3/4/2025 20:14	40303	TAMA_T3	2	2	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
3/4/2025 20:14	40302	TAMA_T3	13	12	-1	0.45	0.58	0.13	0	0	0	0	0	0	0	0
3/4/2025 20:14	20401	ASHF_T2	1	2	1	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
3/4/2025 20:14	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:14	63305	GREE_T1	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:14	45303	WBER_T2	50	71	21	0.57	0.51	-0.06	-0.15	-0.13	0	0	0	0	0	0
3/4/2025 20:14	57205	ROSS_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
3/4/2025 20:14	40501	CRES_T2	9	7	-2	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
3/4/2025 20:14	65502	MOJO_T2	0	0	0	0	0	0	-1.05	-1.08	0	0	0	0	0	0
3/4/2025 20:14	57203	ROSS_T1	0	0	0	0	0	0	-1.14	-1.05	0	0	0	0	0	0
3/4/2025 20:14	59202	THOM_T1	36	159	123	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
3/4/2025 20:14	41902	REED_T1	2	0	-2	0.25	0	-0.25	1.01	1.03	0	0	0	0	0	0
3/4/2025 20:14	63306	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:14	57502	LAWN_T3	0	0	0	0	0	0	0.49	0.48	0	0	0	0	0	0
3/4/2025 20:14	40602	PIGR_T1	0	0	0	0	0	0	-0.61	-0.64	1	1	0	600	600	0
3/4/2025 20:14	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:14	55508	HERS_T2	2	2	0	1.6	1.6	0	0	0	2	2	0	2400	2400	0
3/4/2025 20:14	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:15	46506	LOHA_T1	3	3	0	2.33	2.77	0.44	-0.21	-0.21	0	0	0	0	0	0
3/4/2025 20:15	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:15	52004	LING_T2	2	2	0	5.9	6.1	0.2	0	0	0	0	0	0	0	0
3/4/2025 20:15	45802	HEGI_T2	17	28	11	0.41	0.38	-0.03	0	0	0	0	0	0	0	0
3/4/2025 20:15	52006	LING_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
3/4/2025 20:15	58402	MORO_T1	0	0	0	0	0	0	-0.21	-0.22	4	4	0	3000	3000	0
3/4/2025 20:15	20401	ASHF_T2	2	4	2	0.35	0.18	-0.17	0	0	0	0	0	0	0	0
3/4/2025 20:15	58202	NEWV_T1	0	0	0	0	0	0	0	-0.09	0	0	0	0	0	0
3/4/2025 20:15	55002	NEWP_T1	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
3/4/2025 20:15	50834	WALN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:15	46501	LOHA_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/4/2025 20:15	54501	ENOL_T2	0	0	0	0	0	0	-1.21	-1.2	1	1	0	600	600	0
3/4/2025 20:15	52501	PROG_T1	0	0	0	0	0	0	0.47	0.43	1	1	0	300	300	0
3/4/2025 20:15	57203	ROSS_T1	0	0	0	0	0	0	-0.38	-0.35	0	0	0	0	0	0
3/4/2025 20:15	51701	OBER_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/4/2025 20:15	57401	SPAN_T1	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
3/4/2025 20:15	58001	WCAR_T1	4	6	2	1.38	1.02	-0.36	0	0	0	0	0	0	0	0
3/4/2025 20:15	44301	BEAV_T2	0	0	0	0	0	0	0.09	0.01	1	1	0	600	600	0
3/4/2025 20:15	57403	SPAN_T1	0	0	0	0	0	0	0.01	-0.03	0	0	0	0	0	0
3/4/2025 20:15	47203	FAXO_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
3/4/2025 20:15	44801	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:15	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:15	53601	DALM_T2	1	1	0	0.2	0.3	0.1	-0.19	-0.14	0	0	0	0	0	0
3/4/2025 20:15	49804	UNIV_T1	0	0	0	0	0	0	0.51	0.39	0	0	0	0	0	0
3/4/2025 20:15	51802	EBEN_T2	0	0	0	0	0	0	-1.03	-0.9	2	2	0	1800	1800	0
3/4/2025 20:15	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
3/4/2025 20:15	48902	FOSP_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
3/4/2025 20:15	51401	LYKE_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
3/4/2025 20:15	60701	BREC_T1	0	0	0	0	0	0	-0.65	-0.67	2	2	0	1200	1200	0
3/4/2025 20:15	55001	NEWP_T1	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
3/4/2025 20:15	57505	LAWN_T3	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/4/2025 20:15	59202	THOM_T1	158	41	-117	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/4/2025 20:15	51703	OBER_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:15	58401	MORO_T1	0	0	0	0	0	0	-2.52	-2.52	2	2	0	1200	1200	0
3/4/2025 20:15	59201	THOM_T1	11	13	2	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
3/4/2025 20:15	46504	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:15	61703	ELIZ_T1	0	0	0	0	0	0	-3.66	-3.83	2	2	0	1800	1800	0
3/4/2025 20:15	40701	FELD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:15	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
3/4/2025 20:15	51804	EBEN_T2	2	3	1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
3/4/2025 20:15	54601	SUMM_T2	3	5	2	0.17	0.26	0.09	0	0	0	0	0	0	0	0
3/4/2025 20:15	67201	TEHI_T1	0	0	0	0	0	0	-0.04	0.77	1	0	-1	900	0	-900
3/4/2025 20:15	40505	CRES_T1	0	0	0	0	0	0	0.5	0.46	0	0	0	0	0	0
3/4/2025 20:15	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/4/2025 20:15	58003	WCAR_T1	21	32	11	0.21	0.24	0.03	0.5	0.5	0	0	0	0	0	0
3/4/2025 20:15	55508	HERS_T2	2	2	0	1.5	1.6	0.1	0	0	1	1	0	1200	1200	0
3/4/2025 20:15	58201	NEWV_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
3/4/2025 20:15	61701	ELIZ_T1	1	1	0	5	5.5	0.5	0	0	0	0	0	0	0	0
3/4/2025 20:15	64204	KINZ_T1	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
3/4/2025 20:15	20402	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/4/2025 20:15	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
3/4/2025 20:15	64203	KINZ_T1	0	0	0	0	0	0	-0.47	-0.46	1	1	0	600	600	0
3/4/2025 20:15	20403	ASHF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:15	51604	DUKE_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
3/4/2025 20:15	61301	EARL_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
3/4/2025 20:15	61304	EARL_T1	1	2	1	0.1	0.1	0	-0.32	-0.32	0	0	0	0	0	0
3/4/2025 20:15	65603	QVIL_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
3/4/2025 20:15	52502	PROG_T2	0	0	0	0	0	0	-0.68	-0.7	1	1	0	900	900	0
3/4/2025 20:15	57501	LAWN_T3	0	0	0	0	0	0	-1.76	-1.78	0	0	0	0	0	0
3/4/2025 20:15	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/4/2025 20:15	49803	UNIV_T1	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
3/4/2025 20:16	51804	EBEN_T2	2	3	1	0.3	0.7	0.4	-0.23	-0.25	1	1	0	900	900	0
3/4/2025 20:16	67605	WARW_T1	0	0	0	0	0	0	-0.94	-0.9	0	0	0	0	0	0
3/4/2025 20:16	48901	FOSP_T2	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
3/4/2025 20:16	54701	NEBL_T1	2	3	1	0.15	0.1	-0.05	0	0	1	1	0	600	600	0
3/4/2025 20:16	12401	MILF_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
3/4/2025 20:16	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.26	1	1	0	600	600	0
3/4/2025 20:16	55002	NEWP_T1	2	2	0	0.55	0.7	0.15	-0.29	-0.28	0	0	0	0	0	0
3/4/2025 20:16	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:16	63501	HEID_TBK1-2	1	1	0	0.5	0.9	0.4	0.39	0.33	0	0	0	0	0	0
3/4/2025 20:16	57401	SPAN_T1	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
3/4/2025 20:16	57205	ROSS_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
3/4/2025 20:16	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	-0.65	-0.65	1	1	0	600	600	0
3/4/2025 20:16	52404	GRPA_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/4/2025 20:16	54504	ENOL_T2	0	0	0	0	0	0	-1.09	-1.09	1	1	0	600	600	0
3/4/2025 20:16	52401	GRPA_T2	0	0	0	0	0	0	-0.8	-0.83	0	0	0	0	0	0
3/4/2025 20:16	57403	SPAN_T1	0	0	0	0	0	0	0.01	-0.03	0	0	0	0	0	0
3/4/2025 20:16	52502	PROG_T2	0	0	0	0	0	0	-0.68	-0.7	1	1	0	900	900	0
3/4/2025 20:16	59101	WALK_T2	0	0	0	0	0	0	1.11	1.34	0	0	0	0	0	0
3/4/2025 20:16	54503	ENOL_T2	0	0	0	0	0	0	-0.45	-0.46	1	1	0	600	600	0
3/4/2025 20:16	63305	GREE_T1	3	2	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/4/2025 20:16	52402	GRPA_T2	4	3	-1	0.78	0.77	-0.01	0	0	0	0	0	0	0	0
3/4/2025 20:16	45501	DERR_T2	0	0	0	0	0	0	0.15	0.13	2	2	0	1800	1800	0
3/4/2025 20:16	63303	GREE_T1	0	0	0	0	0	0	-0.84	-0.84	2	2	0	1800	1800	0
3/4/2025 20:16	52501	PROG_T1	0	0	0	0	0	0	0.47	0.43	1	1	0	300	300	0
3/4/2025 20:16	44301	BEAV_T2	0	0	0	0	0	0	0.09	0.01	1	1	0	600	600	0
3/4/2025 20:16	42301	MOWR_T2	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
3/4/2025 20:17	54505	ENOL_T2	1	1	0	0.7	0.9	0.2	-0.65	-0.65	1	1	0	600	600	0
3/4/2025 20:17	40501	CRES_T2	7	8	1	0.21	0.31	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:17	55001	NEWP_T1	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
3/4/2025 20:17	46504	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 20:17	41902	REED_T1	0	0	0	0	0	0	1.01	1.03	0	0	0	0	0	0
3/4/2025 20:17	40601	PIGR_T1	22	12	-10	0.12	0.12	0	-0.19	-0.23	0	0	0	0	0	0
3/4/2025 20:17	40502	CRES_T2	13	15	2	0.31	0.33	0.02	0.18	0.18	0	0	0	0	0	0
3/4/2025 20:17	60604	NCOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:17	49804	UNIV_T1	0	0	0	0	0	0	0.51	0.39	0	0	0	0	0	0
3/4/2025 20:17	55002	NEWP_T1	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
3/4/2025 20:17	46501	LOHA_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/4/2025 20:17	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:17	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:17	41901	REED_T1	8	9	1	0.48	0.42	-0.06	0	0	0	0	0	0	0	0
3/4/2025 20:17	57401	SPAN_T1	2	2	0	0.6	0.75	0.15	-0.3	-0.29	1	1	0	600	600	0
3/4/2025 20:17	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:17	46506	LOHA_T1	3	3	0	2.33	2.77	0.44	0	0	0	0	0	0	0	0
3/4/2025 20:17	66903	SHIL_T2	0	0	0	0	0	0	-1.29	-1.27	0	0	0	0	0	0
3/4/2025 20:17	49803	UNIV_T1	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
3/4/2025 20:17	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.26	1	1	0	600	600	0
3/4/2025 20:18	57505	LAWN_T3	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/4/2025 20:18	52404	GRPA_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/4/2025 20:18	57501	LAWN_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:18	52403	GRPA_T2	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
3/4/2025 20:18	44905	SCOT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:18	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:18	52402	GRPA_T2	4	3	-1	0.78	0.77	-0.01	0	0	0	0	0	0	0	0
3/4/2025 20:19	55001	NEWP_T1	0	0	0	0	0	0	-0.44	-0.43	0	0	0	0	0	0
3/4/2025 20:19	20402	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/4/2025 20:19	55002	NEWP_T1	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
3/4/2025 20:19	20403	ASHF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:19	48901	FOSP_T2	0	0	0	0	0	0	0.23	0.2	0	0	0	0	0	0
3/4/2025 20:19	20401	ASHF_T2	2	4	2	0.35	0.18	-0.17	0	0	0	0	0	0	0	0
3/4/2025 20:19	66903	SHIL_T2	0	0	0	0	0	0	-2.58	-2.54	0	0	0	0	0	0
3/4/2025 20:20	59101	WALK_T2	0	0	0	0	0	0	1.11	1.34	0	0	0	0	0	0
3/4/2025 20:20	14801	TREI_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
3/4/2025 20:20	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:20	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:21	67106	SPRI_T2	1	1	0	0	0	0	-1.3	-1.33	1	1	0	900	900	0
3/4/2025 20:23	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/4/2025 20:28	52004	LING_T2	2	2	0	5.9	6.1	0.2	0.11	0.12	0	0	0	0	0	0
3/4/2025 20:28	52006	LING_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
3/4/2025 20:30	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:30	10105	ALLE_T3	2	2	0	0.3	1.2	0.9	0	0	0	0	0	0	0	0
3/4/2025 20:30	10101	ALLE_T3	1	1	0	6	5.7	-0.3	0	0	0	0	0	0	0	0
3/4/2025 20:30	10109	ALLE_T3	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/4/2025 20:38	42601	TUSC_T1	10	13	3	1.48	1.24	-0.24	-0.37	-0.44	2	2	0	1800	1800	0
3/4/2025 20:39	47403	PENS_T1	0	36	36	0	0.19	0.19	0	0	0	0	0	0	0	0
3/4/2025 20:39	47401	PENS_T1	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
3/4/2025 20:41	47403	PENS_T1	0	36	36	0	0.19	0.19	0	0	0	0	0	0	0	0
3/4/2025 20:41	47401	PENS_T1	0	0	0	0	0	0	0.65	0.66	0	0	0	0	0	0
3/4/2025 20:43	43802	SWIL_T1	0	0	0	0	0	0	-0.23	-0.26	1	1	0	600	600	0
3/4/2025 20:43	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:43	51101	CARL_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
3/4/2025 20:43	43801	SWIL_T1	2	2	0	3.2	3.1	-0.1	0	0	0	0	0	0	0	0
3/4/2025 20:43	51109	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:43	51107	CARL_T1	6	11	5	0.18	0.21	0.03	0	0	0	0	0	0	0	0
3/4/2025 20:44	14601	SWHI_T1	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
3/4/2025 20:48	67904	WNHO_T1	0	0	0	0	0	0	-2.19	-2.2	2	2	0	2100	2100	0
3/4/2025 20:51	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/4/2025 20:51	54501	ENOL_T2	0	1	1	0	0.1	0.1	-1.21	-1.21	1	1	0	600	600	0
3/4/2025 20:54	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 20:55	52502	PROG_T2	0	0	0	0	0	0	-0.7	-0.26	1	0	-1	900	0	-900
3/4/2025 20:58	67904	WNHO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/4/2025 21:03	51109	CARL_T1	0	0	0	0	0	0	-1.05	-1.04	1	1	0	1200	1200	0
3/4/2025 21:03	51101	CARL_T1	1	1	0	5.4	4.8	-0.6	0	0	0	0	0	0	0	0
3/4/2025 21:03	51107	CARL_T1	9	22	13	0.23	0.37	0.14	0	0	0	0	0	0	0	0
3/4/2025 21:03	51102	CARL_T1	0	61	61	0	0.17	0.17	0	0	0	0	0	0	0	0
3/4/2025 21:08	52502	PROG_T2	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
3/4/2025 21:08	55508	HERS_T2	2	2	0	1.7	2.05	0.35	0	0	0	0	0	0	0	0
3/4/2025 21:09	59202	THOM_T1	165	334	169	0.2	0.37	0.17	0	0	0	0	0	0	0	0
3/4/2025 21:09	59201	THOM_T1	15	22	7	0.33	0.53	0.2	0	0	0	0	0	0	0	0
3/4/2025 21:14	54505	ENOL_T2	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
3/4/2025 21:14	42503	ALTA_T2	0	0	0	0	0	0	0.39	0.38	0	0	0	0	0	0
3/4/2025 21:14	54502	ENOL_T2	0	1	1	0	0.1	0.1	-1.36	-1.36	0	0	0	0	0	0
3/4/2025 21:14	54501	ENOL_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
3/4/2025 21:16	57403	SPAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/4/2025 21:16	57401	SPAN_T1	2	2	0	0.7	1.05	0.35	-0.22	-0.31	1	1	0	600	600	0
3/4/2025 21:26	10206	ALLE_T2	1	1	0	1.9	1.5	-0.4	0	0	0	0	0	0	0	0
3/4/2025 21:26	10102	ALLE_T2	9	13	4	1.24	1.14	-0.1	0	0	0	0	0	0	0	0
3/4/2025 21:39	44302	BEAV_T2	0	0	0	0	0	0	0.17	0.19	0	0	0	0	0	0
3/4/2025 21:48	60101	COCA_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
3/4/2025 22:25	60701	BREC_T1	0	0	0	0	0	0	-0.41	-0.46	1	1	0	600	600	0
3/5/2025 2:25	44901	SCOT_T2	0	0	0	0	0	0	-0.26	-0.3	0	0	0	0	0	0
3/5/2025 6:18	61803	EELI_T2	0	0	0	0	0	0	0.02	0.06	1	1	0	600	600	0
3/5/2025 7:58	63305	GREE_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/5/2025 7:58	63304	GREE_T1	0	0	0	0	0	0	-0.53	-0.56	0	0	0	0	0	0
3/5/2025 8:02	63305	GREE_T1	1	0	-1	0.1	0	-0.1	-1.37	-1.25	0	0	0	0	0	0
3/5/2025 8:06	64902	MILL_T2	0	0	0	0	0	0	-0.87	-0.78	1	1	0	900	900	0
3/5/2025 8:16	63305	GREE_T1	0	0	0	0	0	0	-1.25	-1.21	0	0	0	0	0	0
3/5/2025 8:18	64902	MILL_T2	0	0	0	0	0	0	-0.87	-0.78	1	1	0	900	900	0
3/5/2025 8:36	15203	SFAR_T2	2	7	5	0.1	0.1	0	-2.86	-2.88	0	0	0	0	0	0
3/5/2025 8:38	15204	SFAR_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
3/5/2025 8:38	15203	SFAR_T2	2	7	5	0.1	0.1	0	-5.76	-5.68	0	0	0	0	0	0
3/5/2025 8:40	15204	SFAR_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
3/5/2025 8:40	15203	SFAR_T2	2	7	5	0.1	0.1	0	-2.88	-2.84	0	0	0	0	0	0
3/5/2025 8:42	14102	TRUM_T2	0	0	0	0	0	0	-0.07	-0.05	2	2	0	1500	1500	0
3/5/2025 8:54	46001	BERW_T1	0	0	0	0	0	0	0.64	0.68	0	0	0	0	0	0
3/5/2025 8:56	46001	BERW_T1	0	0	0	0	0	0	0.64	0.68	0	0	0	0	0	0
3/5/2025 9:00	53903	HALI_T2	2	2	0	0.6	1	0.4	0	0	0	0	0	0	0	0
3/5/2025 9:00	64902	MILL_T2	0	0	0	0	0	0	-1.52	-1.52	2	2	0	1800	1800	0
3/5/2025 9:00	53901	HALI_T2	1	1	0	0.3	0.5	0.2	-1.06	-1.04	0	0	0	0	0	0
3/5/2025 9:00	65503	MOJO_T2	0	0	0	0	0	0	0.19	0.14	0	0	0	0	0	0
3/5/2025 9:00	13501	MCMI_T1	0	0	0	0	0	0	0.16	0.08	0	0	0	0	0	0
3/5/2025 9:00	24801	VALM_T1	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
3/5/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
3/5/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	-0.16	-0.2	0	0	0	0	0	0
3/5/2025 9:00	53902	HALI_T2	1	1	0	4.9	5.2	0.3	0	0	0	0	0	0	0	0
3/5/2025 9:00	11801	FRAN_T2	0	0	0	0	0	0	0.16	0.08	0	0	0	0	0	0
3/5/2025 9:05	66901	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/5/2025 9:05	66902	SHIL_T2	0	0	0	0	0	0	-1.05	-1.07	0	0	0	0	0	0
3/5/2025 9:10	46001	BERW_T1	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
3/5/2025 9:10	14801	TREI_T2	0	2	2	0	0.1	0.1	0.36	0.35	0	0	0	0	0	0
3/5/2025 9:10	66901	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/5/2025 9:10	66902	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2025 9:11	46001	BERW_T1	0	0	0	0	0	0	1.37	1.37	0	0	0	0	0	0
3/5/2025 9:16	11202	ELHE_T2	0	0	0	0	0	0	0.34	0.35	1	1	0	1200	1200	0
3/5/2025 9:22	14801	TREI_T2	0	2	2	0	0.1	0.1	0.35	0.33	0	0	0	0	0	0
3/5/2025 9:24	45902	AUBU_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
3/5/2025 9:24	14102	TRUM_T2	0	0	0	0	0	0	-0.07	-0.15	2	2	0	1500	1500	0
3/5/2025 9:24	14801	TREI_T2	0	2	2	0	0.1	0.1	0.35	0.33	0	0	0	0	0	0
3/5/2025 9:26	10805	CHHI_T2	1	1	0	7.6	7.5	-0.1	-1.29	-1.32	1	1	0	600	600	0
3/5/2025 9:26	64704	LITI_T1	0	0	0	0	0	0	0	-0.08	1	1	0	600	600	0
3/5/2025 9:42	28102	TWLA_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
3/5/2025 9:49	67605	WARW_T1	6	8	2	0.15	0.15	0	-0.86	-0.85	0	0	0	0	0	0
3/5/2025 9:49	16902	MECK_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/5/2025 10:07	64704	LITI_T1	0	0	0	0	0	0	-0.09	0	1	1	0	600	600	0
3/5/2025 10:18	23401	HONE_T2	2	2	0	0.35	0	-0.35	-1.12	-0.97	0	0	0	0	0	0
3/5/2025 10:23	67402	WAKE_T2	0	1	1	0	0.1	0.1	0.29	0.31	1	1	0	600	600	0
3/5/2025 10:24	46002	BERW_T2	0	0	0	0	0	0	0.57	0.4	0	0	0	0	0	0
3/5/2025 10:24	67402	WAKE_T2	0	1	1	0	0.1	0.1	0.29	0.31	1	1	0	600	600	0
3/5/2025 10:30	46004	BERW_T2	1	0	-1	0.9	0	-0.9	-0.31	-0.24	0	0	0	0	0	0
3/5/2025 10:38	15203	SFAR_T2	0	2	2	0	0.1	0.1	-2.86	-2.78	0	0	0	0	0	0
3/5/2025 10:40	15203	SFAR_T2	0	2	2	0	0.1	0.1	-1.43	-1.39	0	0	0	0	0	0
3/5/2025 10:40	15204	SFAR_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
3/5/2025 10:42	15203	SFAR_T2	0	2	2	0	0.1	0.1	-1.43	-1.39	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/5/2025 10:44	11203	ELHE_T1	0	0	0	0	0	0	0.9	0.91	0	0	0	0	0	0
3/5/2025 10:52	15203	SFAR_T2	2	0	-2	0.1	0	-0.1	-2.78	-2.76	0	0	0	0	0	0
3/5/2025 10:53	67204	TEHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2025 10:54	15203	SFAR_T2	2	0	-2	0.1	0	-0.1	-2.78	-2.76	0	0	0	0	0	0
3/5/2025 10:55	67204	TEHI_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
3/5/2025 10:56	15203	SFAR_T2	2	0	-2	0.1	0	-0.1	-1.39	-1.38	0	0	0	0	0	0
3/5/2025 11:26	65502	MOJO_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/5/2025 11:26	64704	LITI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2025 11:35	28102	TWLA_T2	0	2	2	0	0.15	0.15	0	0.19	0	0	0	0	0	0
3/5/2025 11:38	20403	ASHF_T2	6	10	4	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
3/5/2025 11:38	20402	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/5/2025 11:38	20401	ASHF_T2	0	4	4	0	0.13	0.13	0.51	0.52	0	0	0	0	0	0
3/5/2025 12:10	67502	WEWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2025 12:22	13302	ORVI_T2	0	0	0	0	0	0	1.2	1.18	0	0	0	0	0	0
3/5/2025 12:40	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2025 12:46	11203	ELHE_T1	0	0	0	0	0	0	1.23	1.23	0	0	0	0	0	0
3/5/2025 12:54	57401	SPAN_T1	2	2	0	0.95	0.6	-0.35	0	0	0	0	0	0	0	0
3/5/2025 12:54	57403	SPAN_T1	7	0	-7	0.14	0	-0.14	-0.05	-0.03	0	0	0	0	0	0
3/5/2025 13:31	52403	GRPA_T2	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
3/5/2025 13:31	52402	GRPA_T2	6	7	1	0.85	0.99	0.14	0	0	0	0	0	0	0	0
3/5/2025 13:35	21206	ECAR_T2	1	1	0	7.5	8	0.5	0.37	0.42	0	0	0	0	0	0
3/5/2025 13:35	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2025 13:40	44301	BEAV_T2	2	1	-1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/5/2025 13:48	11201	ELHE_T2	0	0	0	0	0	0	-0.9	-0.94	4	4	0	4800	4800	0
3/5/2025 14:01	61703	ELIZ_T1	0	0	0	0	0	0	-2.01	-1.73	1	1	0	900	900	0
3/5/2025 14:01	61701	ELIZ_T1	1	2	1	5.1	5.2	0.1	0	0	0	0	0	0	0	0
3/5/2025 14:07	45901	AUBU_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/5/2025 14:07	45902	AUBU_T1	0	80	80	0	0.25	0.25	0	0	0	0	0	0	0	0
3/5/2025 14:13	53501	EVIL_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
3/5/2025 14:21	57203	ROSS_T1	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
3/5/2025 14:22	58401	MORO_T1	0	0	0	0	0	0	-1.12	-1.16	1	1	0	600	600	0
3/5/2025 14:22	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2025 14:23	58401	MORO_T1	0	0	0	0	0	0	-1.12	-1.16	1	1	0	600	600	0
3/5/2025 14:23	57203	ROSS_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
3/5/2025 14:24	21204	ECAR_T2	1	1	0	0	0	0	-0.56	-0.52	0	0	0	0	0	0
3/5/2025 14:24	21206	ECAR_T2	1	1	0	8	8.2	0.2	0	0	0	0	0	0	0	0
3/5/2025 14:27	54601	SUMM_T2	2	3	1	0.3	0.33	0.03	-1.88	-1.87	2	2	0	2100	2100	0
3/5/2025 14:28	52402	GRPA_T2	4	7	3	1.38	1.43	0.05	0	0	0	0	0	0	0	0
3/5/2025 14:28	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/5/2025 14:30	53501	EVIL_T2	2	0	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
3/5/2025 14:31	54502	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/5/2025 14:31	54501	ENOL_T2	3	4	1	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/5/2025 14:31	54505	ENOL_T2	1	1	0	1.1	1.2	0.1	-0.66	-0.66	1	1	0	600	600	0
3/5/2025 14:49	46602	LACR_T1	0	0	0	0	0	0	-0.68	-0.7	0	0	0	0	0	0
3/5/2025 15:03	63601	LETO_T1	0	0	0	0	0	0	1.28	1.29	1	1	0	900	900	0
3/5/2025 15:14	52403	GRPA_T2	3	10	7	0.17	0.25	0.08	-0.5	-0.52	0	0	0	0	0	0
3/5/2025 15:14	52404	GRPA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/5/2025 15:14	52401	GRPA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/5/2025 15:14	52402	GRPA_T2	7	8	1	1.33	1.5	0.17	0	0	0	0	0	0	0	0
3/5/2025 15:34	52401	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/5/2025 15:34	52402	GRPA_T2	8	7	-1	1.33	1.13	-0.2	0	0	0	0	0	0	0	0
3/5/2025 15:34	52403	GRPA_T2	9	2	-7	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
3/5/2025 15:34	52404	GRPA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/5/2025 15:37	52402	GRPA_T2	8	7	-1	1.33	1.13	-0.2	0	0	0	0	0	0	0	0
3/5/2025 15:37	52404	GRPA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/5/2025 15:37	52401	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/5/2025 15:37	52403	GRPA_T2	9	2	-7	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
3/5/2025 15:58	52101	MEIS_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
3/5/2025 15:58	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/5/2025 16:05	58202	NEWV_T1	0	7	7	0	0.34	0.34	0.02	-0.09	0	0	0	0	0	0
3/5/2025 16:06	58202	NEWV_T1	0	7	7	0	0.34	0.34	0.04	-0.18	0	0	0	0	0	0
3/5/2025 16:08	58202	NEWV_T1	0	7	7	0	0.34	0.34	0	0	0	0	0	0	0	0
3/5/2025 16:08	58201	NEWV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2025 16:48	52404	GRPA_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
3/5/2025 16:48	52402	GRPA_T2	6	6	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/5/2025 16:48	52403	GRPA_T2	0	0	0	0	0	0	-0.39	-0.43	0	0	0	0	0	0
3/5/2025 16:49	41202	KENM_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/5/2025 16:49	41205	KENM_T2	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
3/5/2025 19:05	64902	MILL_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
3/5/2025 19:06	64902	MILL_T2	0	0	0	0	0	0	0.14	0.17	0	0	0	0	0	0
3/5/2025 19:10	16902	MECK_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
3/5/2025 19:10	10805	CHHI_T2	1	7	6	8.2	8.2	0	-1.29	-1.3	1	1	0	600	600	0
3/5/2025 19:12	46001	BERW_T1	0	0	0	0	0	0	0.54	0.51	0	0	0	0	0	0
3/5/2025 19:12	66902	SHIL_T2	0	0	0	0	0	0	-1	-0.97	0	0	0	0	0	0
3/5/2025 19:13	66902	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2025 19:14	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.35	0	0	0	0	0	0
3/5/2025 19:16	46602	LACR_T1	1	1	0	0.1	0.2	0.1	-0.69	-0.74	0	0	0	0	0	0
3/5/2025 19:16	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.35	0	0	0	0	0	0
3/5/2025 19:16	13302	ORVI_T2	0	0	0	0	0	0	1.31	1.32	0	0	0	0	0	0
3/5/2025 19:19	28102	TWLA_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
3/5/2025 19:22	15203	SFAR_T2	0	0	0	0	0	0	-1.35	-1.36	0	0	0	0	0	0
3/5/2025 19:27	20401	ASHF_T2	2	1	-1	0.1	0	-0.1	0.4	0.38	0	0	0	0	0	0
3/5/2025 19:27	20402	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/5/2025 19:30	11202	ELHE_T2	0	0	0	0	0	0	0.36	0.36	1	1	0	1200	1200	0
3/5/2025 19:32	15203	SFAR_T2	0	0	0	0	0	0	-2.7	-2.72	0	0	0	0	0	0
3/5/2025 19:32	14801	TREI_T2	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
3/5/2025 19:34	14801	TREI_T2	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
3/5/2025 19:34	23401	HONE_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
3/5/2025 19:34	11201	ELHE_T2	0	0	0	0	0	0	-0.17	-0.15	2	2	0	2400	2400	0
3/5/2025 19:34	15203	SFAR_T2	0	0	0	0	0	0	-1.35	-1.36	0	0	0	0	0	0
3/5/2025 19:35	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2025 19:36	11801	FRAN_T2	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
3/5/2025 19:36	14801	TREI_T2	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
3/5/2025 19:37	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2025 19:37	21206	ECAR_T2	1	1	0	7.1	7.6	0.5	0.02	0.03	0	0	0	0	0	0
3/5/2025 19:38	14103	TRUM_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/5/2025 19:38	14102	TRUM_T2	1	1	0	2.8	2.8	0	0.83	0.82	1	1	0	600	600	0
3/5/2025 19:44	21204	ECAR_T2	1	1	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
3/5/2025 19:44	21206	ECAR_T2	1	1	0	7.1	7.6	0.5	0	0	0	0	0	0	0	0
3/5/2025 19:47	67605	WARW_T1	2	3	1	0.15	0.2	0.05	-0.9	-0.94	0	0	0	0	0	0
3/5/2025 19:48	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.36	0	0	0	0	0	0
3/5/2025 19:50	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.36	0	0	0	0	0	0
3/5/2025 19:51	46004	BERW_T2	444	517	73	0.2	0.25	0.05	-0.53	-0.53	0	0	0	0	0	0
3/5/2025 19:51	46003	BERW_T2	339	365	26	0.41	0.44	0.03	0	0	0	0	0	0	0	0
3/5/2025 19:51	46002	BERW_T2	307	359	52	0.28	0.28	0	-0.06	-0.06	0	0	0	0	0	0
3/5/2025 19:52	57203	ROSS_T1	0	0	0	0	0	0	-0.4	-0.37	0	0	0	0	0	0
3/5/2025 19:52	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.37	0	0	0	0	0	0
3/5/2025 19:52	15204	SFAR_T2	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
3/5/2025 19:55	46001	BERW_T1	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
3/5/2025 19:57	58202	NEWV_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
3/5/2025 19:57	46001	BERW_T1	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
3/5/2025 19:58	67204	TEHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2025 19:58	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2025 19:59	52403	GRPA_T2	9	10	1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/5/2025 19:59	41205	KENM_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
3/5/2025 19:59	58201	NEWV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2025 19:59	41202	KENM_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/5/2025 19:59	52402	GRPA_T2	5	6	1	0.96	1.34	0.38	0	0	0	0	0	0	0	0
3/5/2025 19:59	52404	GRPA_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/5/2025 20:01	52403	GRPA_T2	10	6	-4	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
3/5/2025 20:01	52402	GRPA_T2	6	5	-1	1.14	1.18	0.04	0	0	0	0	0	0	0	0
3/5/2025 20:01	52404	GRPA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/5/2025 20:01	58202	NEWV_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
3/5/2025 20:02	58202	NEWV_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
3/5/2025 20:03	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.24	1	1	0	600	600	0
3/5/2025 20:03	54601	SUMM_T2	2	3	1	0.25	0.4	0.15	-1.91	-1.9	2	2	0	2100	2100	0
3/5/2025 20:04	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.24	1	1	0	600	600	0
3/5/2025 20:04	52404	GRPA_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/5/2025 20:04	52402	GRPA_T2	6	5	-1	1.14	1.18	0.04	0	0	0	0	0	0	0	0
3/5/2025 20:04	52403	GRPA_T2	10	6	-4	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
3/5/2025 20:06	53501	EVIL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/5/2025 20:08	64704	LITI_T1	0	0	0	0	0	0	0.08	0.02	1	1	0	600	600	0
3/5/2025 20:08	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
3/5/2025 20:08	63601	LETO_T1	0	0	0	0	0	0	1.35	1.48	1	1	0	900	900	0
3/5/2025 20:09	67502	WEWI_T2	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
3/5/2025 20:09	67503	WEWI_T2	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
3/5/2025 20:09	61703	ELIZ_T1	0	0	0	0	0	0	-1.98	-1.98	1	1	0	900	900	0
3/5/2025 20:09	61701	ELIZ_T1	1	1	0	5.1	5.3	0.2	0	0	0	0	0	0	0	0
3/5/2025 20:10	52101	MEIS_T1	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0	0
3/5/2025 20:10	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/5/2025 20:11	53501	EVIL_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/5/2025 20:11	64704	LITI_T1	0	0	0	0	0	0	0.08	0.02	1	1	0	600	600	0
3/5/2025 20:15	44301	BEAV_T2	2	3	1	0.25	0.6	0.35	0	0	0	0	0	0	0	0
3/5/2025 20:26	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/5/2025 23:28	57203	ROSS_T1	0	0	0	0	0	0	-0.43	-0.47	0	0	0	0	0	0
3/6/2025 8:00	10903	COOP_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 8:01	23401	HONE_T2	4	6	2	0.35	0	-0.35	-0.04	0.03	0	0	0	0	0	0
3/6/2025 8:03	23401	HONE_T2	4	6	2	0.35	0	-0.35	-0.09	0.07	0	0	0	0	0	0
3/6/2025 8:20	51201	MTON_T1	1	1	0	9	9.2	0.2	0	0.05	0	0	0	0	0	0
3/6/2025 8:27	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/6/2025 8:27	54505	ENOL_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
3/6/2025 8:27	54506	ENOL_T2	0	0	0	0	0	0	-1.46	-1.37	0	1	1	0	600	600
3/6/2025 8:29	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/6/2025 8:29	54504	ENOL_T2	0	0	0	0	0	0	-1.06	-1.05	1	1	0	600	600	0
3/6/2025 8:29	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 8:29	54505	ENOL_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
3/6/2025 8:29	62103	ELAN_T1	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 8:30	53501	EVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/6/2025 8:30	53502	EVIL_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
3/6/2025 8:31	62106	ELAN_T1	0	0	0	0	0	0	1.18	1.11	0	0	0	0	0	0
3/6/2025 8:31	54502	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/6/2025 8:31	53501	EVIL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/6/2025 8:31	54505	ENOL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/6/2025 8:31	53502	EVIL_T2	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
3/6/2025 8:31	54504	ENOL_T2	0	0	0	0	0	0	-1.06	-1.05	1	1	0	600	600	0
3/6/2025 8:33	15704	TANN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 8:33	15701	TANN_T1	1	2	1	4.2	2.25	-1.95	0	0	0	0	0	0	0	0
3/6/2025 8:34	54201	PENN_T1	8	6	-2	0.79	0.93	0.14	0.01	0	0	0	0	0	0	0
3/6/2025 8:34	54203	PENN_T1	18	18	0	1.09	1.15	0.06	0	0	0	0	0	0	0	0
3/6/2025 8:35	54203	PENN_T1	18	18	0	1.09	1.15	0.06	0	0	0	0	0	0	0	0
3/6/2025 8:35	54201	PENN_T1	8	6	-2	0.79	0.93	0.14	0.01	0	0	0	0	0	0	0
3/6/2025 8:37	54201	PENN_T1	8	6	-2	0.79	0.93	0.14	0	0.03	0	0	0	0	0	0
3/6/2025 8:37	54203	PENN_T1	18	18	0	1.09	1.15	0.06	0	0	0	0	0	0	0	0
3/6/2025 8:37	57201	ROSS_T1	0	0	0	0	0	0	-0.58	-0.68	0	0	0	0	0	0
3/6/2025 8:38	24901	WHHA_T1	0	0	0	0	0	0	-0.79	-0.76	0	0	0	0	0	0
3/6/2025 8:38	58302	NOTT_T1	0	0	0	0	0	0	-1.15	-0.19	2	1	-1	2100	1200	-900
3/6/2025 8:38	54201	PENN_T1	8	6	-2	0.79	0.93	0.14	0	0	0	0	0	0	0	0
3/6/2025 8:38	54203	PENN_T1	18	18	0	1.09	1.15	0.06	-0.03	-0.05	1	1	0	600	600	0
3/6/2025 8:39	24902	WHHA_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
3/6/2025 8:40	60803	BUCK_T1	0	0	0	0	0	0	-0.56	-0.56	1	1	0	600	600	0
3/6/2025 8:40	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 8:40	60801	BUCK_T1	0	10	10	0	0.13	0.13	0	0	0	0	0	0	0	0
3/6/2025 8:41	43402	BENT_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	900	900	0
3/6/2025 8:42	24902	WHHA_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
3/6/2025 8:44	43402	BENT_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	900	900	0
3/6/2025 8:46	62106	ELAN_T1	0	0	0	0	0	0	1.11	1.14	0	0	0	0	0	0
3/6/2025 8:46	53802	MBRG_T2	0	0	0	0	0	0	1.28	1.09	0	0	0	0	0	0
3/6/2025 8:46	53801	MBRG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 8:47	53902	HALI_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
3/6/2025 8:47	53901	HALI_T2	1	1	0	0.2	0.4	0.2	-1.04	-1.05	0	0	0	0	0	0
3/6/2025 8:47	53903	HALI_T2	2	2	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
3/6/2025 8:50	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 8:51	66903	SHIL_T2	0	0	0	0	0	0	-1.21	-1.24	0	0	0	0	0	0
3/6/2025 8:51	66901	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 8:52	13303	ORVI_T1	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
3/6/2025 8:56	61306	EARL_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/6/2025 8:56	61304	EARL_T1	1	16	15	0.1	0.1	0	0	0	0	0	0	0	0	0
3/6/2025 8:57	61304	EARL_T1	1	16	15	0.1	0.1	0	0	0.02	0	0	0	0	0	0
3/6/2025 8:58	61306	EARL_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/6/2025 8:58	61304	EARL_T1	1	16	15	0.1	0.1	0	0.01	0.03	0	0	0	0	0	0
3/6/2025 8:59	61304	EARL_T1	1	16	15	0.1	0.1	0	0	0.02	0	0	0	0	0	0
3/6/2025 8:59	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 9:00	13501	MCMI_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
3/6/2025 9:00	13303	ORVI_T1	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
3/6/2025 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
3/6/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
3/6/2025 9:00	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 9:00	61306	EARL_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/6/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	-0.09	-0.06	0	0	0	0	0	0
3/6/2025 9:00	65202	PRIN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/6/2025 9:00	67502	WEWI_T2	0	27	27	0	0.16	0.16	0	0	0	0	0	0	0	0
3/6/2025 9:00	54201	PENN_T1	5	8	3	0.98	0.73	-0.25	0.03	0.01	0	0	0	0	0	0
3/6/2025 9:00	61304	EARL_T1	0	16	16	0	0.1	0.1	0.01	0.03	0	0	0	0	0	0
3/6/2025 9:00	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 9:00	54203	PENN_T1	18	18	0	1.06	1.22	0.16	-0.05	0	1	1	0	600	600	0
3/6/2025 9:01	61306	EARL_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/6/2025 9:01	61304	EARL_T1	0	16	16	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 9:01	61303	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 9:02	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
3/6/2025 9:02	63803	HEMP_T1	0	5	5	0	0.13	0.13	0	0	0	0	0	0	0	0
3/6/2025 9:02	63802	HEMP_T1	0	0	0	0	0	0	0.21	0.16	0	0	0	0	0	0
3/6/2025 9:05	66504	SMAN_T2	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
3/6/2025 9:05	66502	SMAN_T2	0	0	0	0	0	0	0.13	0.35	0	0	0	0	0	0
3/6/2025 9:06	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 9:07	66502	SMAN_T2	0	0	0	0	0	0	0.35	0.22	0	0	0	0	0	0
3/6/2025 9:07	54203	PENN_T1	18	18	0	1.06	1.22	0.16	0	-0.03	1	1	0	600	600	0
3/6/2025 9:07	54201	PENN_T1	5	8	3	0.98	0.73	-0.25	0	0	0	0	0	0	0	0
3/6/2025 9:08	14801	TREI_T2	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
3/6/2025 9:08	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 9:08	66504	SMAN_T2	0	0	0	0	0	0	-0.82	-0.86	0	0	0	0	0	0
3/6/2025 9:09	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.97	1	1	0	900	900	0
3/6/2025 9:09	51301	WIND_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 9:09	66504	SMAN_T2	0	0	0	0	0	0	-1.23	-1.29	0	0	0	0	0	0
3/6/2025 9:09	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 9:09	24901	WHHA_T1	0	0	0	0	0	0	-0.73	-0.75	0	0	0	0	0	0
3/6/2025 9:10	66502	SMAN_T2	0	0	0	0	0	0	0.69	0.43	0	0	0	0	0	0
3/6/2025 9:10	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 9:10	51301	WIND_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 9:10	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.97	1	1	0	900	900	0
3/6/2025 9:10	14801	TREI_T2	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
3/6/2025 9:11	66502	SMAN_T2	0	0	0	0	0	0	0.69	0.43	0	0	0	0	0	0
3/6/2025 9:11	40502	CRES_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 9:11	40501	CRES_T2	6	7	1	0.23	0.27	0.04	0	0	0	0	0	0	0	0
3/6/2025 9:12	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 9:12	51301	WIND_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 9:12	40504	CRES_T1	0	0	0	0	0	0	-0.5	-0.47	0	0	0	0	0	0
3/6/2025 9:13	53501	EVIL_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/6/2025 9:13	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.97	1	1	0	900	900	0
3/6/2025 9:13	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 9:14	40101	HUNT_T2	0	0	0	0	0	0	-1.01	-1.06	0	0	0	0	0	0
3/6/2025 9:14	66502	SMAN_T2	0	0	0	0	0	0	0.35	0.22	0	0	0	0	0	0
3/6/2025 9:15	66505	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/6/2025 9:15	44801	EDAN_T2	0	0	0	0	0	0	-0.45	-0.43	0	0	0	0	0	0
3/6/2025 9:15	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
3/6/2025 9:15	40504	CRES_T1	0	0	0	0	0	0	-0.5	-0.47	0	0	0	0	0	0
3/6/2025 9:18	64202	KINZ_T1	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/6/2025 9:18	64204	KINZ_T1	1	1	0	1.3	0.9	-0.4	0	0	0	0	0	0	0	0
3/6/2025 9:18	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 9:21	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 9:21	57205	ROSS_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
3/6/2025 9:21	65207	PRIN_T4	2	4	2	2.85	0.6	-2.25	0	0	0	0	0	0	0	0
3/6/2025 9:21	57201	ROSS_T1	0	0	0	0	0	0	-0.59	-0.49	0	0	0	0	0	0
3/6/2025 9:22	54203	PENN_T1	18	18	0	1.22	1.02	-0.2	0	0	0	0	0	0	0	0
3/6/2025 9:22	54201	PENN_T1	8	6	-2	0.73	0.75	0.02	0.03	0.05	0	0	0	0	0	0
3/6/2025 9:22	57201	ROSS_T1	0	0	0	0	0	0	0.49	0.45	0	0	0	0	0	0
3/6/2025 9:22	67502	WEWI_T2	0	27	27	0	0.16	0.16	0	0	0	0	0	0	0	0
3/6/2025 9:23	54201	PENN_T1	8	6	-2	0.73	0.75	0.02	0.03	0.05	0	0	0	0	0	0
3/6/2025 9:23	54203	PENN_T1	18	18	0	1.22	1.02	-0.2	0	0	0	0	0	0	0	0
3/6/2025 9:28	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 9:28	61306	EARL_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
3/6/2025 9:28	67605	WARW_T1	9	4	-5	0.23	0.3	0.07	0	0	0	0	0	0	0	0
3/6/2025 9:28	61304	EARL_T1	16	14	-2	0.1	0.11	0.01	0	0	0	0	0	0	0	0
3/6/2025 9:28	53501	EVIL_T2	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
3/6/2025 9:28	67603	WARW_T1	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
3/6/2025 9:29	61304	EARL_T1	16	14	-2	0.1	0.11	0.01	0	-0.03	0	0	0	0	0	0
3/6/2025 9:30	23401	HONE_T2	1	2	1	2.4	1	-1.4	-0.15	-0.08	0	0	0	0	0	0
3/6/2025 9:30	61304	EARL_T1	2	12	10	0.1	0.11	0.01	0	-0.03	0	0	0	0	0	0
3/6/2025 9:31	61304	EARL_T1	2	12	10	0.1	0.11	0.01	0	0	0	0	0	0	0	0
3/6/2025 9:31	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 9:31	44801	EDAN_T2	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
3/6/2025 9:34	46901	MNTG_T2	0	0	0	0	0	0	1.34	0.96	0	0	0	0	0	0
3/6/2025 9:34	55002	NEWP_T1	6	6	0	0.7	0.77	0.07	-0.24	-0.25	0	0	0	0	0	0
3/6/2025 9:37	67402	WAKE_T2	0	0	0	0	0	0	0.41	0.33	1	1	0	600	600	0
3/6/2025 9:40	40501	CRES_T2	7	12	5	0.27	0.41	0.14	0	0	0	0	0	0	0	0
3/6/2025 9:40	40502	CRES_T2	1	6	5	0.1	0.12	0.02	0.17	0.17	0	0	0	0	0	0
3/6/2025 9:41	40502	CRES_T2	1	6	5	0.1	0.12	0.02	0.17	0.17	0	0	0	0	0	0
3/6/2025 9:41	67402	WAKE_T2	0	0	0	0	0	0	0.41	0.33	1	1	0	600	600	0
3/6/2025 9:41	40501	CRES_T2	7	12	5	0.27	0.41	0.14	0	0	0	0	0	0	0	0
3/6/2025 9:42	40502	CRES_T2	1	6	5	0.1	0.12	0.02	0.17	0.17	0	0	0	0	0	0
3/6/2025 9:42	40501	CRES_T2	7	12	5	0.27	0.41	0.14	0	0	0	0	0	0	0	0
3/6/2025 9:47	40502	CRES_T2	6	1	-5	0.12	0.1	-0.02	0.17	0.17	0	0	0	0	0	0
3/6/2025 9:47	40501	CRES_T2	9	11	2	0.3	0.44	0.14	0	0	0	0	0	0	0	0
3/6/2025 9:49	43202	MVIL_T2	9	10	1	0.18	0.18	0	-0.57	-0.58	0	0	0	0	0	0
3/6/2025 9:51	21203	ECAR_T1	0	0	0	0	0	0	-0.35	-0.33	0	0	0	0	0	0
3/6/2025 9:51	46901	MNTG_T2	0	0	0	0	0	0	1.04	1.34	0	0	0	0	0	0
3/6/2025 9:56	40502	CRES_T2	6	1	-5	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
3/6/2025 9:56	40501	CRES_T2	9	11	2	0.3	0.44	0.14	0	0	0	0	0	0	0	0
3/6/2025 9:57	40501	CRES_T2	9	11	2	0.3	0.44	0.14	0	0	0	0	0	0	0	0
3/6/2025 9:57	61304	EARL_T1	12	4	-8	0.11	0.1	-0.01	0.09	0.08	0	0	0	0	0	0
3/6/2025 9:57	67303	WYOM_T2	0	0	0	0	0	0	-0.61	-0.64	0	0	0	0	0	0
3/6/2025 9:57	40502	CRES_T2	6	1	-5	0.12	0.1	-0.02	0.17	0.16	0	0	0	0	0	0
3/6/2025 9:58	40502	CRES_T2	6	1	-5	0.12	0.1	-0.02	0.17	0.16	0	0	0	0	0	0
3/6/2025 9:58	61304	EARL_T1	12	4	-8	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
3/6/2025 9:58	40501	CRES_T2	9	11	2	0.3	0.44	0.14	0	0	0	0	0	0	0	0
3/6/2025 10:01	61301	EARL_T1	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
3/6/2025 10:01	46102	MACI_T1	1	0	-1	0.1	0	-0.1	0.66	0.63	0	0	0	0	0	0
3/6/2025 10:01	61304	EARL_T1	0	28	28	0	0.14	0.14	0	0	0	0	0	0	0	0
3/6/2025 10:03	46101	MACI_T2	0	0	0	0	0	0	-0.94	-0.9	2	2	0	2400	2400	0
3/6/2025 10:03	43202	MVIL_T2	7	11	4	0.16	0.17	0.01	-0.58	-0.59	0	0	0	0	0	0
3/6/2025 10:04	46101	MACI_T2	0	0	0	0	0	0	-0.94	-0.9	2	2	0	2400	2400	0
3/6/2025 10:04	40601	PIGR_T1	0	4	4	0	0.1	0.1	-1.37	-1.46	0	0	0	0	0	0
3/6/2025 10:04	58401	MORO_T1	0	0	0	0	0	0	-1.01	-1.01	1	1	0	600	600	0
3/6/2025 10:05	40601	PIGR_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 10:06	13303	ORVI_T1	0	0	0	0	0	0	-0.35	0.88	0	0	0	0	0	0
3/6/2025 10:07	43202	MVIL_T2	7	11	4	0.16	0.17	0.01	-0.59	-0.6	0	0	0	0	0	0
3/6/2025 10:08	13303	ORVI_T1	0	0	0	0	0	0	0.88	0.93	0	0	0	0	0	0
3/6/2025 10:08	40601	PIGR_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 10:08	40602	PIGR_T1	0	0	0	0	0	0	-1.04	-1.07	2	2	0	1200	1200	0
3/6/2025 10:09	58401	MORO_T1	0	0	0	0	0	0	-1.01	-1	1	1	0	600	600	0
3/6/2025 10:14	10801	CHHI_T1	0	0	0	0	0	0	-1.52	-1.45	2	2	0	1500	1500	0
3/6/2025 10:16	10801	CHHI_T1	0	1	1	0	0	0	-1.52	-1.45	2	2	0	1500	1500	0
3/6/2025 10:20	21206	ECAR_T2	1	1	0	7.7	7.8	0.1	0.41	0.38	0	0	0	0	0	0
3/6/2025 10:20	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:21	65502	MOJO_T2	0	0	0	0	0	0	-1.29	-0.78	1	1	0	900	900	0
3/6/2025 10:22	41902	REED_T1	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
3/6/2025 10:22	41901	REED_T1	7	8	1	0.24	0.25	0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/6/2025 10:22	66504	SMAN_T2	0	0	0	0	0	0	-0.49	-0.45	0	0	0	0	0	0
3/6/2025 10:22	24801	VALM_T1	0	0	0	0	0	0	-0.34	-0.4	0	0	0	0	0	0
3/6/2025 10:22	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:22	65502	MOJO_T2	0	0	0	0	0	0	-1.29	-0.78	1	1	0	900	900	0
3/6/2025 10:22	66505	SMAN_T2	3	3	0	0.23	0.6	0.37	0	0	0	0	0	0	0	0
3/6/2025 10:23	41902	REED_T1	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
3/6/2025 10:23	40601	PIGR_T1	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/6/2025 10:23	41901	REED_T1	7	8	1	0.24	0.25	0.01	0	0	0	0	0	0	0	0
3/6/2025 10:23	67604	WARW_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
3/6/2025 10:23	67605	WARW_T1	10	23	13	0.29	0.34	0.05	0	0	0	0	0	0	0	0
3/6/2025 10:23	40602	PIGR_T1	0	0	0	0	0	0	-0.54	-0.52	1	1	0	600	600	0
3/6/2025 10:23	42503	ALTA_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
3/6/2025 10:23	27502	WEIS_T2	0	0	0	0	0	0	0.14	0.09	0	0	0	0	0	0
3/6/2025 10:23	50834	WALN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:23	42601	TUSC_T1	0	0	0	0	0	0	0.31	0.41	2	2	0	1800	1800	0
3/6/2025 10:23	57205	ROSS_T1	1	0	-1	0.5	0	-0.5	0.14	0.15	0	0	0	0	0	0
3/6/2025 10:24	41901	REED_T1	7	8	1	0.24	0.25	0.01	0	0	0	0	0	0	0	0
3/6/2025 10:24	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:24	60701	BREC_T1	0	0	0	0	0	0	-0.48	-0.53	2	2	0	1200	1200	0
3/6/2025 10:24	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:24	67904	WNHO_T1	0	0	0	0	0	0	-2.15	-2.12	2	2	0	2100	2100	0
3/6/2025 10:24	67303	WYOM_T2	0	0	0	0	0	0	-1.77	-1.72	0	0	0	0	0	0
3/6/2025 10:24	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:24	21206	ECAR_T2	1	1	0	7.7	7.8	0.1	0.38	0.37	0	0	0	0	0	0
3/6/2025 10:24	67901	WNHO_T2	0	0	0	0	0	0	0.77	0.8	1	1	0	900	900	0
3/6/2025 10:24	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/6/2025 10:24	66505	SMAN_T2	3	3	0	0.23	0.6	0.37	0	0	0	0	0	0	0	0
3/6/2025 10:24	41902	REED_T1	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0	0
3/6/2025 10:24	67605	WARW_T1	10	23	13	0.29	0.34	0.05	-0.73	-0.73	0	0	0	0	0	0
3/6/2025 10:24	67603	WARW_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
3/6/2025 10:24	60201	ATGL_T2	0	1	1	0	0	0	0.08	0.08	0	0	0	0	0	0
3/6/2025 10:24	42601	TUSC_T1	0	0	0	0	0	0	0.31	0.41	2	2	0	1800	1800	0
3/6/2025 10:25	42601	TUSC_T1	0	0	0	0	0	0	0.31	0.41	2	2	0	1800	1800	0
3/6/2025 10:25	51306	WIND_T2	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
3/6/2025 10:25	67903	WNHO_T1	0	0	0	0	0	0	0.86	0.88	1	1	0	1200	1200	0
3/6/2025 10:25	67904	WNHO_T1	0	0	0	0	0	0	-4.3	-4.23	4	4	0	4200	4200	0
3/6/2025 10:25	67603	WARW_T1	0	0	0	0	0	0	0.42	0.35	0	0	0	0	0	0
3/6/2025 10:25	50303	CEDA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 10:25	67604	WARW_T1	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
3/6/2025 10:25	20401	ASHF_T2	2	3	1	0.1	0.17	0.07	0.41	0.39	0	0	0	0	0	0
3/6/2025 10:25	42503	ALTA_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
3/6/2025 10:25	61002	DONV_T2	0	0	0	0	0	0	-0.85	-0.85	1	1	0	600	600	0
3/6/2025 10:25	67605	WARW_T1	10	23	13	0.29	0.34	0.05	0	0	0	0	0	0	0	0
3/6/2025 10:25	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/6/2025 10:25	67401	WAKE_T2	0	0	0	0	0	0	-1.09	-1	0	0	0	0	0	0
3/6/2025 10:25	66502	SMAN_T2	0	0	0	0	0	0	0.26	0.22	0	0	0	0	0	0
3/6/2025 10:25	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:25	60701	BREC_T1	0	0	0	0	0	0	-0.96	-1.07	4	4	0	2400	2400	0
3/6/2025 10:25	67901	WNHO_T2	0	0	0	0	0	0	0.77	0.8	1	1	0	900	900	0
3/6/2025 10:25	42501	ALTA_T2	0	0	0	0	0	0	-0.02	0.08	3	3	0	1800	1800	0
3/6/2025 10:25	50302	CEDA_T2	0	0	0	0	0	0	-0.53	-0.51	1	1	0	1200	1200	0
3/6/2025 10:25	60201	ATGL_T2	0	1	1	0	0	0	0.17	0.15	0	0	0	0	0	0
3/6/2025 10:25	20403	ASHF_T2	0	27	27	0	0.23	0.23	0.07	0.07	0	0	0	0	0	0
3/6/2025 10:25	66505	SMAN_T2	3	3	0	0.23	0.6	0.37	0	0	0	0	0	0	0	0
3/6/2025 10:26	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:26	51301	WIND_T1	0	0	0	0	0	0	-0.36	-0.29	0	0	0	0	0	0
3/6/2025 10:26	53802	MBRG_T2	0	0	0	0	0	0	1.21	1.14	0	0	0	0	0	0
3/6/2025 10:26	67605	WARW_T1	10	23	13	0.29	0.34	0.05	0	0	0	0	0	0	0	0
3/6/2025 10:26	67603	WARW_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
3/6/2025 10:26	53601	DALM_T2	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
3/6/2025 10:26	67303	WYOM_T2	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
3/6/2025 10:26	42503	ALTA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:26	53801	MBRG_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 10:26	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:26	61304	EARL_T1	4	29	25	0.1	0.14	0.04	0	0	0	0	0	0	0	0
3/6/2025 10:26	67904	WNHO_T1	0	0	0	0	0	0	-4.3	-4.23	4	4	0	4200	4200	0
3/6/2025 10:26	51904	COPA_T1	5	5	0	0.96	1.26	0.3	0	0	0	0	0	0	0	0
3/6/2025 10:26	61301	EARL_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
3/6/2025 10:26	67901	WNHO_T2	0	0	0	0	0	0	0.77	0.8	1	1	0	900	900	0
3/6/2025 10:26	42501	ALTA_T2	0	0	0	0	0	0	-0.02	0.08	3	3	0	1800	1800	0
3/6/2025 10:26	60201	ATGL_T2	0	1	1	0	0	0	0.08	0.08	0	0	0	0	0	0
3/6/2025 10:26	45902	AUBU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
3/6/2025 10:26	67402	WAKE_T2	0	0	0	0	0	0	0.45	0.41	1	1	0	600	600	0
3/6/2025 10:26	51906	COPA_T1	0	0	0	0	0	0	-1.01	-0.98	2	2	0	1500	1500	0
3/6/2025 10:27	62602	ENGL_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
3/6/2025 10:27	67902	WNHO_T2	0	0	0	0	0	0	-0.49	-0.41	2	2	0	2100	2100	0
3/6/2025 10:27	67604	WARW_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
3/6/2025 10:27	50623	CCTY_T2	6	6	0	6.03	5.62	-0.41	0	0	0	0	0	0	0	0
3/6/2025 10:27	67401	WAKE_T2	0	0	0	0	0	0	-1.09	-1	0	0	0	0	0	0
3/6/2025 10:27	67605	WARW_T1	10	23	13	0.29	0.34	0.05	0	0	0	0	0	0	0	0
3/6/2025 10:27	50625	CCTY_T2	6	7	1	3.87	3.17	-0.7	0	0	1	1	0	1200	1200	0
3/6/2025 10:27	51603	DUKE_T1	0	0	0	0	0	0	-0.38	-0.41	0	0	0	0	0	0
3/6/2025 10:27	42501	ALTA_T2	0	0	0	0	0	0	-0.03	0.11	4	4	0	2400	2400	0
3/6/2025 10:27	61304	EARL_T1	4	29	25	0.1	0.14	0.04	0	0	0	0	0	0	0	0
3/6/2025 10:27	62607	ENGL_T1	0	0	0	0	0	0	-1.12	-1.14	1	1	0	300	300	0
3/6/2025 10:27	60701	BREC_T1	0	0	0	0	0	0	-0.96	-1.07	4	4	0	2400	2400	0
3/6/2025 10:27	61001	DONV_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
3/6/2025 10:27	51904	COPA_T1	5	5	0	0.96	1.26	0.3	-3.18	-3.15	6	6	0	3600	3600	0
3/6/2025 10:27	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/6/2025 10:27	20401	ASHF_T2	2	3	1	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/6/2025 10:27	51902	COPA_T1	0	0	0	0	0	0	0.49	0.53	1	1	0	1200	1200	0
3/6/2025 10:27	52202	DEVO_T2	0	0	0	0	0	0	1.1	1.16	0	0	0	0	0	0
3/6/2025 10:27	50624	CCTY_T2	2	2	0	6.4	6.15	-0.25	0	0	0	0	0	0	0	0
3/6/2025 10:27	20403	ASHF_T2	0	27	27	0	0.23	0.23	0	0	0	0	0	0	0	0
3/6/2025 10:27	51604	DUKE_T2	3	22	19	0.23	0.2	-0.03	-1.72	-1.67	1	1	0	900	900	0
3/6/2025 10:27	42503	ALTA_T2	0	0	0	0	0	0	0.07	0.05	0	0	0	0	0	0
3/6/2025 10:27	62606	ENGL_T1	30	53	23	0.1	0.11	0.01	0	0	0	0	0	0	0	0
3/6/2025 10:27	67904	WNHO_T1	0	0	0	0	0	0	-2.15	-2.12	2	2	0	2100	2100	0
3/6/2025 10:27	67603	WARW_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
3/6/2025 10:27	60201	ATGL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:27	53601	DALM_T2	1	1	0	1.1	0.9	-0.2	-0.74	-0.74	1	1	0	900	900	0
3/6/2025 10:27	61306	EARL_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/6/2025 10:27	61002	DONV_T2	0	0	0	0	0	0	-0.85	-0.85	1	1	0	600	600	0
3/6/2025 10:27	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/6/2025 10:27	51306	WIND_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
3/6/2025 10:27	58803	COCO_T1	1	1	0	2.7	3.1	0.4	-0.3	-0.24	0	0	0	0	0	0
3/6/2025 10:27	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:28	61304	EARL_T1	4	29	25	0.1	0.14	0.04	0	0	0	0	0	0	0	0
3/6/2025 10:28	62607	ENGL_T1	0	0	0	0	0	0	-1.12	-1.14	1	1	0	300	300	0
3/6/2025 10:28	67903	WNHO_T1	0	0	0	0	0	0	0.86	0.88	1	1	0	1200	1200	0
3/6/2025 10:28	10805	CHHI_T2	2	1	-1	3.6	7.2	3.6	-1.64	-1.57	1	1	0	1200	1200	0
3/6/2025 10:28	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/6/2025 10:28	42501	ALTA_T2	0	0	0	0	0	0	-0.01	0.03	1	1	0	600	600	0
3/6/2025 10:28	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 10:28	67303	WYOM_T2	0	0	0	0	0	0	-0.59	-0.57	0	0	0	0	0	0
3/6/2025 10:28	60701	BREC_T1	0	0	0	0	0	0	-1.44	-1.6	6	6	0	3600	3600	0
3/6/2025 10:28	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:28	67603	WARW_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
3/6/2025 10:28	61001	DONV_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
3/6/2025 10:28	62606	ENGL_T1	30	53	23	0.1	0.11	0.01	0	0	0	0	0	0	0	0
3/6/2025 10:28	51604	DUKE_T2	3	22	19	0.23	0.2	-0.03	-3.44	-3.34	2	2	0	1800	1800	0
3/6/2025 10:28	54504	ENOL_T2	0	0	0	0	0	0	-1.06	-1.07	1	1	0	600	600	0
3/6/2025 10:28	10701	CATA_T2	1	0	-1	5.4	0	-5.4	0	0	0	0	0	0	0	0
3/6/2025 10:28	67904	WNHO_T1	0	0	0	0	0	0	-2.15	-2.12	2	2	0	2100	2100	0
3/6/2025 10:28	56501	ROCK_T2	2	2	0	0.25	0.4	0.15	-1.29	-1.25	0	0	0	0	0	0
3/6/2025 10:28	54505	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
3/6/2025 10:28	67605	WARW_T1	10	23	13	0.29	0.34	0.05	-0.73	-0.73	0	0	0	0	0	0
3/6/2025 10:28	63501	HEID_TBK1-2	0	1	1	0	0.7	0.7	0.18	0.29	1	1	0	900	900	0
3/6/2025 10:28	61301	EARL_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
3/6/2025 10:28	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:28	67604	WARW_T1	0	0	0	0	0	0	0.21	0.19	0	0	0	0	0	0
3/6/2025 10:28	10705	CATA_T2	0	0	0	0	0	0	-0.97	-0.98	1	1	0	900	900	0
3/6/2025 10:28	60201	ATGL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:28	51904	COPA_T1	5	5	0	0.96	1.26	0.3	-2.12	-2.1	4	4	0	2400	2400	0
3/6/2025 10:28	51902	COPA_T1	0	0	0	0	0	0	0.98	1.06	2	2	0	2400	2400	0
3/6/2025 10:28	61303	EARL_T1	0	0	0	0	0	0	0.59	0.79	0	0	0	0	0	0
3/6/2025 10:28	51906	COPA_T1	0	0	0	0	0	0	-1.01	-0.98	2	2	0	1500	1500	0
3/6/2025 10:29	51604	DUKE_T2	3	22	19	0.23	0.2	-0.03	-5.16	-5.01	3	3	0	2700	2700	0
3/6/2025 10:29	60701	BREC_T1	0	0	0	0	0	0	-0.48	-0.53	2	2	0	1200	1200	0
3/6/2025 10:29	51905	COPA_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
3/6/2025 10:29	63501	HEID_TBK1-2	0	1	1	0	0.7	0.7	0.37	0.57	2	2	0	1800	1800	0
3/6/2025 10:29	45902	AUBU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
3/6/2025 10:29	42501	ALTA_T2	0	0	0	0	0	0	-0.01	0.03	1	1	0	600	600	0
3/6/2025 10:29	61001	DONV_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
3/6/2025 10:29	58803	COCO_T1	1	1	0	2.7	3.1	0.4	-0.3	-0.24	0	0	0	0	0	0
3/6/2025 10:29	51906	COPA_T1	0	0	0	0	0	0	-2.02	-1.95	4	4	0	3000	3000	0
3/6/2025 10:29	67605	WARW_T1	10	23	13	0.29	0.34	0.05	-0.73	-0.73	0	0	0	0	0	0
3/6/2025 10:29	51902	COPA_T1	0	0	0	0	0	0	0.49	0.53	1	1	0	1200	1200	0
3/6/2025 10:29	51904	COPA_T1	5	5	0	0.96	1.26	0.3	-1.06	-1.05	2	2	0	1200	1200	0
3/6/2025 10:29	62606	ENGL_T1	30	53	23	0.1	0.11	0.01	-1.63	-1.66	1	1	0	900	900	0
3/6/2025 10:29	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:30	51906	COPA_T1	0	0	0	0	0	0	-3.03	-2.93	6	6	0	4500	4500	0
3/6/2025 10:30	62606	ENGL_T1	53	36	-17	0.11	0.1	-0.01	-1.63	-1.66	1	1	0	900	900	0
3/6/2025 10:30	61304	EARL_T1	26	24	-2	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
3/6/2025 10:30	51904	COPA_T1	5	5	0	0.98	1.28	0.3	0	0	0	0	0	0	0	0
3/6/2025 10:30	53601	DALM_T2	1	1	0	0.8	1.1	0.3	-0.74	-0.74	1	1	0	900	900	0
3/6/2025 10:30	61306	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 10:30	63501	HEID_TBK1-2	1	1	0	0.2	0.9	0.7	0.37	0.57	2	2	0	1800	1800	0
3/6/2025 10:30	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:30	61002	DONV_T2	0	0	0	0	0	0	-1.69	-1.7	2	2	0	1200	1200	0
3/6/2025 10:30	61001	DONV_T1	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
3/6/2025 10:30	20601	GRWO_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
3/6/2025 10:30	63303	GREE_T1	0	0	0	0	0	0	-0.4	-0.52	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/6/2025 10:30	51905	COPA_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
3/6/2025 10:30	10705	CATA_T2	0	1	1	0	0.1	0.1	-2.91	-2.93	3	3	0	2700	2700	0
3/6/2025 10:30	51604	DUKE_T2	20	17	-3	0.22	0.21	-0.01	-3.44	-3.34	2	2	0	1800	1800	0
3/6/2025 10:30	51902	COPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:30	20603	GRWO_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
3/6/2025 10:30	61303	EARL_T1	0	0	0	0	0	0	1.18	1.58	0	0	0	0	0	0
3/6/2025 10:31	61304	EARL_T1	26	24	-2	0.14	0.13	-0.01	0.02	0.06	0	0	0	0	0	0
3/6/2025 10:31	61306	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 10:31	51904	COPA_T1	5	5	0	0.98	1.28	0.3	-1.06	-1.05	2	2	0	1200	1200	0
3/6/2025 10:31	51604	DUKE_T2	20	17	-3	0.22	0.21	-0.01	-1.72	-1.67	1	1	0	900	900	0
3/6/2025 10:31	51905	COPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:31	57505	LAWN_T3	8	8	0	0.23	0.28	0.05	0	0	0	0	0	0	0	0
3/6/2025 10:31	56501	ROCK_T2	2	2	0	0.4	0.4	0	-1.29	-1.25	0	0	0	0	0	0
3/6/2025 10:31	57501	LAWN_T3	0	0	0	0	0	0	-0.81	-0.78	0	0	0	0	0	0
3/6/2025 10:31	20603	GRWO_T2	0	5	5	0	0.12	0.12	0.39	0.39	0	0	0	0	0	0
3/6/2025 10:32	62601	ENGL_T1	0	0	0	0	0	0	-0.03	-0.05	0	0	0	0	0	0
3/6/2025 10:32	51901	COPA_T1	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
3/6/2025 10:32	43402	BENT_T1	0	1	1	0	0.4	0.4	-0.95	-0.94	1	1	0	900	900	0
3/6/2025 10:32	20603	GRWO_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
3/6/2025 10:32	63501	HEID_TBK1-2	1	1	0	0.2	0.9	0.7	0.18	0.29	1	1	0	900	900	0
3/6/2025 10:32	20601	GRWO_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
3/6/2025 10:32	62606	ENGL_T1	53	36	-17	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
3/6/2025 10:32	51906	COPA_T1	0	0	0	0	0	0	-2.02	-1.95	4	4	0	3000	3000	0
3/6/2025 10:32	62607	ENGL_T1	0	0	0	0	0	0	-1.12	-1.14	1	1	0	300	300	0
3/6/2025 10:32	51905	COPA_T1	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
3/6/2025 10:32	51904	COPA_T1	5	5	0	0.98	1.28	0.3	-1.06	-1.05	2	2	0	1200	1200	0
3/6/2025 10:33	57505	LAWN_T3	8	8	0	0.23	0.28	0.05	0	0	0	0	0	0	0	0
3/6/2025 10:33	54505	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
3/6/2025 10:33	54502	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/6/2025 10:33	57501	LAWN_T3	0	0	0	0	0	0	-0.81	-0.78	0	0	0	0	0	0
3/6/2025 10:33	54501	ENOL_T2	0	0	0	0	0	0	-2.3	-2.24	2	2	0	1200	1200	0
3/6/2025 10:33	51901	COPA_T1	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
3/6/2025 10:33	51904	COPA_T1	5	5	0	0.98	1.28	0.3	0	0	0	0	0	0	0	0
3/6/2025 10:33	56501	ROCK_T2	2	2	0	0.4	0.4	0	-1.29	-1.25	0	0	0	0	0	0
3/6/2025 10:34	65004	NEFF_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/6/2025 10:34	65001	NEFF_T2	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
3/6/2025 10:34	51904	COPA_T1	5	5	0	0.98	1.28	0.3	0	0	0	0	0	0	0	0
3/6/2025 10:34	64802	MONE_T2	6	4	-2	0.17	0.15	-0.02	-0.01	-0.01	0	0	0	0	0	0
3/6/2025 10:34	64801	MONE_T2	139	145	6	0.37	0.37	0	0	0	0	0	0	0	0	0
3/6/2025 10:34	51906	COPA_T1	0	0	0	0	0	0	-1.01	-0.98	2	2	0	1500	1500	0
3/6/2025 10:34	61002	DONV_T2	0	0	0	0	0	0	-0.85	-0.85	1	1	0	600	600	0
3/6/2025 10:34	57501	LAWN_T3	0	0	0	0	0	0	-0.81	-0.78	0	0	0	0	0	0
3/6/2025 10:34	57505	LAWN_T3	8	8	0	0.23	0.28	0.05	0	0	0	0	0	0	0	0
3/6/2025 10:34	63501	HEID_TBK1-2	1	1	0	0.2	0.9	0.7	0.18	0.29	1	1	0	900	900	0
3/6/2025 10:34	65005	NEFF_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/6/2025 10:35	64802	MONE_T2	6	4	-2	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
3/6/2025 10:35	64801	MONE_T2	139	145	6	0.37	0.37	0	83.96	83.96	0	0	0	0	0	0
3/6/2025 10:35	55001	NEWP_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
3/6/2025 10:35	55002	NEWP_T1	4	6	2	0.43	0.62	0.19	0	0	0	0	0	0	0	0
3/6/2025 10:35	60502	NMAN_T2	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
3/6/2025 10:35	60501	NMAN_T2	16	4	-12	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
3/6/2025 10:36	42201	SHEN_T2	0	0	0	0	0	0	0.07	-0.23	1	1	0	600	600	0
3/6/2025 10:36	65503	MOJO_T2	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
3/6/2025 10:36	55001	NEWP_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
3/6/2025 10:36	55002	NEWP_T1	4	6	2	0.43	0.62	0.19	0	0	0	0	0	0	0	0
3/6/2025 10:36	64904	MILL_T1	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
3/6/2025 10:36	66702	STRA_T1	0	0	0	0	0	0	1.18	1.11	4	4	0	3000	3000	0
3/6/2025 10:36	65802	RTWN_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
3/6/2025 10:37	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:37	60501	NMAN_T2	16	4	-12	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
3/6/2025 10:37	66702	STRA_T1	0	0	0	0	0	0	0.59	0.55	2	2	0	1500	1500	0
3/6/2025 10:38	42201	SHEN_T2	0	0	0	0	0	0	0.07	-0.23	1	1	0	600	600	0
3/6/2025 10:38	66702	STRA_T1	0	0	0	0	0	0	0.59	0.55	2	2	0	1500	1500	0
3/6/2025 10:39	61402	SLIT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/6/2025 10:39	61404	SLIT_T1	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
3/6/2025 10:39	66701	STRA_T1	0	0	0	0	0	0	-0.04	-0.19	1	1	0	600	600	0
3/6/2025 10:39	66703	STRA_T1	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
3/6/2025 10:40	66701	STRA_T1	0	0	0	0	0	0	-0.04	-0.19	1	1	0	600	600	0
3/6/2025 10:40	66702	STRA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:45	64203	KINZ_T1	0	0	0	0	0	0	-0.66	-0.41	3	3	0	2100	2100	0
3/6/2025 10:45	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/6/2025 10:45	64204	KINZ_T1	2	3	1	0.45	0.77	0.32	0	0	0	0	0	0	0	0
3/6/2025 10:46	64203	KINZ_T1	0	0	0	0	0	0	-0.66	-0.41	3	3	0	2100	2100	0
3/6/2025 10:46	64204	KINZ_T1	2	3	1	0.45	0.77	0.32	0	0	0	0	0	0	0	0
3/6/2025 10:46	64202	KINZ_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/6/2025 10:49	15602	NSTR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 10:49	15601	NSTR_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/6/2025 10:50	51304	WIND_T2	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
3/6/2025 10:52	57205	ROSS_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
3/6/2025 10:54	14802	TREI_T2	0	1	1	0	0	0	0.35	0.32	0	0	0	0	0	0
3/6/2025 10:54	14801	TREI_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/6/2025 10:57	57205	ROSS_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
3/6/2025 10:58	14801	TREI_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/6/2025 10:58	14802	TREI_T2	0	1	1	0	0	0	0.35	0.32	0	0	0	0	0	0
3/6/2025 11:03	57502	LAWN_T3	0	0	0	0	0	0	0.6	0.61	0	0	0	0	0	0
3/6/2025 11:03	57505	LAWN_T3	5	6	1	0.32	0.24	-0.08	0	0	0	0	0	0	0	0
3/6/2025 11:06	10602	BLGL_T2	2	1	-1	0.5	0.7	0.2	0.22	0.2	0	0	0	0	0	0
3/6/2025 11:06	58401	MORO_T1	0	0	0	0	0	0	-1.03	-1.02	1	1	0	600	600	0
3/6/2025 11:07	57401	SPAN_T1	2	2	0	1	0.75	-0.25	-1.04	-1.05	1	1	0	600	600	0
3/6/2025 11:07	57402	SPAN_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
3/6/2025 11:07	57403	SPAN_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
3/6/2025 11:08	57403	SPAN_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
3/6/2025 11:08	43801	SWIL_T1	5	5	0	1.12	1.02	-0.1	0	0	0	0	0	0	0	0
3/6/2025 11:08	43802	SWIL_T1	0	1	1	0	0	0	-0.22	-0.19	1	1	0	600	600	0
3/6/2025 11:08	57401	SPAN_T1	2	2	0	1	0.75	-0.25	-1.04	-1.05	1	1	0	600	600	0
3/6/2025 11:10	43802	SWIL_T1	0	1	1	0	0	0	-0.22	-0.19	1	1	0	600	600	0
3/6/2025 11:10	43801	SWIL_T1	5	5	0	1.12	1.02	-0.1	0	0	0	0	0	0	0	0
3/6/2025 11:10	58401	MORO_T1	0	0	0	0	0	0	-1.02	-0.99	1	1	0	600	600	0
3/6/2025 11:10	54601	SUMM_T2	8	6	-2	0.35	0.27	-0.08	-1.81	-1.84	2	2	0	2100	2100	0
3/6/2025 11:11	57403	SPAN_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
3/6/2025 11:11	57401	SPAN_T1	2	2	0	1	0.75	-0.25	-1.04	-1.05	1	1	0	600	600	0
3/6/2025 11:26	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 11:26	21206	ECAR_T2	1	1	0	7.5	8.1	0.6	0.35	0.44	0	0	0	0	0	0
3/6/2025 11:30	62102	ELAN_T1	0	0	0	0	0	0	0.56	0.66	0	0	0	0	0	0
3/6/2025 11:30	41301	FISH_T1	1	2	1	2.6	1.45	-1.15	-0.3	-0.3	0	0	0	0	0	0
3/6/2025 11:33	46903	MNTG_T2	0	9	9	0	0.16	0.16	-0.62	-0.72	1	1	0	600	600	0
3/6/2025 11:33	20603	GRWO_T2	6	13	7	0.15	0.15	0	0.38	0.37	0	0	0	0	0	0
3/6/2025 11:34	53601	DALM_T2	1	1	0	0.9	1.2	0.3	-0.73	-0.77	1	1	0	900	900	0
3/6/2025 11:34	61001	DONV_T1	0	0	0	0	0	0	-0.26	-0.23	0	0	0	0	0	0
3/6/2025 11:34	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.94	-0.96	1	1	0	900	900	0
3/6/2025 11:34	60701	BREC_T1	0	0	0	0	0	0	-0.52	-0.54	2	2	0	1200	1200	0
3/6/2025 11:34	55405	SHER_T1	14	17	3	0.73	0.56	-0.17	0	0	0	0	0	0	0	0
3/6/2025 11:35	47104	MARL_T1	0	0	0	0	0	0	-2.26	-2.17	0	0	0	0	0	0
3/6/2025 11:35	41301	FISH_T1	1	2	1	2.6	1.45	-1.15	0	0	0	0	0	0	0	0
3/6/2025 11:36	46903	MNTG_T2	0	9	9	0	0.16	0.16	0	0	0	0	0	0	0	0
3/6/2025 11:36	16102	BING_T2	1	1	0	0.2	0.4	0.2	-0.07	-0.06	0	0	0	0	0	0
3/6/2025 11:36	46902	MNTG_T2	0	0	0	0	0	0	-0.54	-0.54	1	1	0	600	600	0
3/6/2025 11:38	12604	MACA_T1	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
3/6/2025 11:38	57401	SPAN_T1	2	2	0	0.75	0.9	0.15	0	0	0	0	0	0	0	0
3/6/2025 11:39	65206	PRIN_T4	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
3/6/2025 11:39	65207	PRIN_T4	1	3	2	0.4	0.45	0.05	0	0	1	1	0	600	600	0
3/6/2025 11:42	12602	MACA_T1	0	0	0	0	0	0	-0.79	-0.79	0	0	0	0	0	0
3/6/2025 11:43	66903	SHIL_T2	0	0	0	0	0	0	-1.22	-1.2	0	0	0	0	0	0
3/6/2025 11:43	66901	SHIL_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/6/2025 11:44	52503	PROG_T2	0	0	0	0	0	0	0.37	0.44	0	0	0	0	0	0
3/6/2025 11:44	11104	EGYP_T1	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
3/6/2025 11:44	61701	ELIZ_T1	1	1	0	5.5	5.7	0.2	0.16	0	0	0	0	0	0	0
3/6/2025 11:45	52402	GRPA_T2	4	6	2	0.8	0.93	0.13	0	0	0	0	0	0	0	0
3/6/2025 11:45	52403	GRPA_T2	0	6	6	0	0.3	0.3	-0.49	-0.5	0	0	0	0	0	0
3/6/2025 11:45	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 11:45	61701	ELIZ_T1	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
3/6/2025 11:45	61703	ELIZ_T1	0	0	0	0	0	0	-1.8	-1.9	1	1	0	900	900	0
3/6/2025 11:46	12001	HATF_T1	0	0	0	0	0	0	-0.37	-0.35	2	2	0	1800	1800	0
3/6/2025 11:46	11104	EGYP_T1	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
3/6/2025 11:46	41202	KENM_T2	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
3/6/2025 11:50	59301	MCAL_T1	2	2	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
3/6/2025 11:50	65702	RVIL_T2	0	0	0	0	0	0	-5.97	-5.89	4	4	0	2400	2400	0
3/6/2025 11:50	59302	MCAL_T1	0	0	0	0	0	0	-0.62	-0.56	1	1	0	600	600	0
3/6/2025 11:51	21206	ECAR_T2	1	1	0	8	8.1	0.1	0.44	0.42	0	0	0	0	0	0
3/6/2025 11:51	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 11:51	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 11:52	65702	RVIL_T2	0	0	0	0	0	0	-1.47	-1.46	1	1	0	600	600	0
3/6/2025 11:53	65702	RVIL_T2	0	0	0	0	0	0	-1.47	-1.46	1	1	0	600	600	0
3/6/2025 11:53	65901	SAKR_T2	1	1	0	9.7	9.9	0.2	-1.25	-1.28	1	1	0	900	900	0
3/6/2025 11:54	65702	RVIL_T2	0	0	0	0	0	0	-1.47	-1.46	1	1	0	600	600	0
3/6/2025 11:56	61701	ELIZ_T1	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
3/6/2025 11:56	61703	ELIZ_T1	0	0	0	0	0	0	-1.9	-1.88	1	1	0	900	900	0
3/6/2025 11:57	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 11:57	61801	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 11:57	61802	EELI_T2	0	0	0	0	0	0	-0.32	-0.19	0	0	0	0	0	0
3/6/2025 11:58	61703	ELIZ_T1	0	0	0	0	0	0	-5.7	-5.64	3	3	0	2700	2700	0
3/6/2025 11:58	61701	ELIZ_T1	1	1	0	5.5	5.7	0.2	0	0	0	0	0	0	0	0
3/6/2025 11:58	65901	SAKR_T2	1	1	0	9.7	9.9	0.2	-1.25	-1.28	1	1	0	900	900	0
3/6/2025 12:00	24105	EHAZ_T1	4	4	0	6.23	5.8	-0.43	0	0	0	0	0	0	0	0
3/6/2025 12:00	61703	ELIZ_T1	0	0	0	0	0	0	-1.9	-1.88	1	1	0	900	900	0
3/6/2025 12:00	24103	EHAZ_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 12:00	24102	EHAZ_T1	12	1	-11	0.98	1.2	0.22	0.71	-0.08	0	0	0	0	0	0
3/6/2025 12:00	61701	ELIZ_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
3/6/2025 12:00	24101	EHAZ_T1	20	6	-14	0.93	0	-0.93	0	0	0	0	0	0	0	0
3/6/2025 12:01	52402	GRPA_T2	6	4	-2	0.74	1	0.26	0	0	0	0	0	0	0	0
3/6/2025 12:01	52403	GRPA_T2	6	0	-6	0.3	0	-0.3	-0.5	-0.55	0	0	0	0	0	0
3/6/2025 12:02	52403	GRPA_T2	6	0	-6	0.3	0	-0.3	-0.5	-0.55	0	0	0	0	0	0
3/6/2025 12:02	52402	GRPA_T2	6	4	-2	0.74	1	0.26	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/6/2025 12:05	57201	ROSS_T1	0	0	0	0	0	0	-1.48	-1.37	0	0	0	0	0	0
3/6/2025 12:06	15704	TANN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 12:06	15701	TANN_T1	1	1	0	3.9	4.5	0.6	0	0	0	0	0	0	0	0
3/6/2025 12:09	66505	SMAN_T2	3	3	0	0.67	0.57	-0.1	0	0	0	0	0	0	0	0
3/6/2025 12:09	66502	SMAN_T2	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
3/6/2025 12:09	66503	SMAN_T2	0	0	0	0	0	0	0.36	0.3	0	0	0	0	0	0
3/6/2025 12:10	66504	SMAN_T2	0	0	0	0	0	0	-0.46	-0.5	0	0	0	0	0	0
3/6/2025 12:10	66505	SMAN_T2	3	3	0	0.67	0.57	-0.1	0	0	0	0	0	0	0	0
3/6/2025 12:11	46002	BERW_T2	0	0	0	0	0	0	-0.76	-0.75	1	1	0	900	900	0
3/6/2025 12:11	66502	SMAN_T2	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
3/6/2025 12:11	66505	SMAN_T2	3	3	0	0.67	0.57	-0.1	0	0	0	0	0	0	0	0
3/6/2025 12:11	66504	SMAN_T2	0	0	0	0	0	0	-0.46	-0.5	0	0	0	0	0	0
3/6/2025 12:12	66505	SMAN_T2	3	3	0	0.67	0.57	-0.1	-0.14	-0.05	2	2	0	1800	1800	0
3/6/2025 12:12	66504	SMAN_T2	0	0	0	0	0	0	-0.46	-0.5	0	0	0	0	0	0
3/6/2025 12:12	66502	SMAN_T2	0	0	0	0	0	0	0.21	0.18	0	0	0	0	0	0
3/6/2025 12:15	53501	EVIL_T2	2	1	-1	0.55	1	0.45	-0.31	-0.43	1	1	0	600	600	0
3/6/2025 12:16	64702	LITI_T2	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
3/6/2025 12:17	64702	LITI_T2	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
3/6/2025 12:18	64702	LITI_T2	0	0	0	0	0	0	-0.8	-0.79	0	0	0	0	0	0
3/6/2025 12:21	67204	TEHI_T2	19	4	-15	0.14	0.15	0.01	0.25	0.2	0	0	0	0	0	0
3/6/2025 12:22	58201	NEWV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 12:22	13302	ORVI_T2	1	1	0	0.8	1.2	0.4	1.1	1.15	0	0	0	0	0	0
3/6/2025 12:23	42701	AUGU_T1	1	1	0	1.3	1.1	-0.2	0	0	2	2	0	1800	1800	0
3/6/2025 12:24	44301	BEAV_T2	0	69	69	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 12:24	67204	TEHI_T2	19	4	-15	0.14	0.15	0.01	0	0	0	0	0	0	0	0
3/6/2025 12:26	51102	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 12:26	44301	BEAV_T2	0	69	69	0	0	0	-0.12	0.78	2	2	0	1500	1500	0
3/6/2025 12:26	60701	BREC_T1	0	3	3	0	0.13	0.13	-0.58	-0.55	2	2	0	1200	1200	0
3/6/2025 12:26	45801	HEGI_T1	0	0	0	0	0	0	-0.19	-0.08	1	1	0	900	900	0
3/6/2025 12:26	51101	CARL_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/6/2025 12:27	44301	BEAV_T2	0	69	69	0	0	0	-0.12	0.78	2	2	0	1500	1500	0
3/6/2025 12:27	60701	BREC_T1	0	3	3	0	0.13	0.13	-1.16	-1.11	4	4	0	2400	2400	0
3/6/2025 12:28	11402	FARM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 12:28	11407	FARM_T1	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
3/6/2025 12:28	11405	FARM_T1	1	3	2	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/6/2025 12:28	10801	CHHI_T1	0	0	0	0	0	0	-1.45	-1.42	2	2	0	1500	1500	0
3/6/2025 12:28	11404	FARM_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/6/2025 12:29	51904	COPA_T1	5	5	0	1.06	1.26	0.2	0	0	0	0	0	0	0	0
3/6/2025 12:29	51906	COPA_T1	0	0	0	0	0	0	-1	-1.02	2	2	0	1500	1500	0
3/6/2025 12:30	11407	FARM_T1	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
3/6/2025 12:30	11404	FARM_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/6/2025 12:30	11402	FARM_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/6/2025 12:30	11405	FARM_T1	2	3	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/6/2025 12:31	64704	LITI_T1	0	0	0	0	0	0	0.09	0.06	1	1	0	600	600	0
3/6/2025 12:32	11404	FARM_T1	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/6/2025 12:32	60701	BREC_T1	3	0	-3	0.13	0	-0.13	-0.58	-0.55	2	2	0	1200	1200	0
3/6/2025 12:32	11402	FARM_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/6/2025 12:32	11405	FARM_T1	2	3	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/6/2025 12:32	11407	FARM_T1	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
3/6/2025 12:32	64704	LITI_T1	0	0	0	0	0	0	0.09	0.06	1	1	0	600	600	0
3/6/2025 12:37	67201	TEHI_T1	0	0	0	0	0	0	0.59	0.73	1	1	0	900	900	0
3/6/2025 12:38	24206	PROV_T4	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
3/6/2025 12:38	24202	PROV_T4	0	0	0	0	0	0	-0.72	-0.75	1	1	0	1200	1200	0
3/6/2025 12:39	52403	GRPA_T2	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
3/6/2025 12:39	52402	GRPA_T2	3	4	1	0.9	1.13	0.23	0	0	0	0	0	0	0	0
3/6/2025 12:41	67605	WARW_T1	28	16	-12	0.48	0.39	-0.09	0	0	0	0	0	0	0	0
3/6/2025 12:41	67604	WARW_T1	0	0	0	0	0	0	0.13	0.19	0	0	0	0	0	0
3/6/2025 12:53	43801	SWIL_T1	5	3	-2	1.18	1.73	0.55	0	0	0	0	0	0	0	0
3/6/2025 12:53	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 13:00	22602	KIMB_T1	1	1	0	0.1	0.2	0.1	0.13	0.13	0	0	0	0	0	0
3/6/2025 13:10	14802	TREI_T2	2	5	3	0.1	0.23	0.13	0.38	0.35	0	0	0	0	0	0
3/6/2025 13:10	14801	TREI_T2	4	18	14	0.15	0.17	0.02	0	0	0	0	0	0	0	0
3/6/2025 13:15	24104	EHAZ_T1	0	0	0	0	0	0	-2.17	-2.18	1	1	0	1200	1200	0
3/6/2025 13:15	24101	EHAZ_T1	21	30	9	0.53	0.71	0.18	0	0	0	0	0	0	0	0
3/6/2025 13:15	24102	EHAZ_T1	5	7	2	0.8	1.03	0.23	0	0	0	0	0	0	0	0
3/6/2025 13:15	24105	EHAZ_T1	4	4	0	6.28	6.13	-0.15	0	0	0	0	0	0	0	0
3/6/2025 13:15	24103	EHAZ_T1	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
3/6/2025 13:17	52001	LING_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
3/6/2025 13:18	52004	LING_T2	2	2	0	5.85	6.1	0.25	0.25	0.25	0	0	0	0	0	0
3/6/2025 13:18	52002	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 13:18	52006	LING_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/6/2025 13:21	52002	LING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 13:21	52004	LING_T2	2	2	0	5.85	6.1	0.25	0.25	0.25	0	0	0	0	0	0
3/6/2025 13:21	52006	LING_T2	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/6/2025 13:24	57401	SPAN_T1	2	2	0	0.65	0.65	0	-0.95	-1.07	1	1	0	600	600	0
3/6/2025 13:24	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 13:26	14802	TREI_T2	4	5	1	0.13	0.23	0.1	0.35	0.37	0	0	0	0	0	0
3/6/2025 13:26	14801	TREI_T2	2	18	16	0.3	0.17	-0.13	0.38	0.36	0	0	0	0	0	0
3/6/2025 13:26	57401	SPAN_T1	2	2	0	0.65	0.65	0	-1.9	-2.14	2	2	0	1200	1200	0
3/6/2025 13:27	57401	SPAN_T1	2	2	0	0.65	0.65	0	-0.95	-1.07	1	1	0	600	600	0
3/6/2025 13:27	42701	AUGU_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/6/2025 13:28	42701	AUGU_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/6/2025 13:29	44505	HAMI_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
3/6/2025 13:29	44502	HAMI_T2	1	1	0	2.4	2.7	0.3	0	0	0	0	0	0	0	0
3/6/2025 13:32	63804	HEMP_T1	1	1	0	6.4	6	-0.4	0.87	0.86	0	0	0	0	0	0
3/6/2025 13:32	63803	HEMP_T1	0	3	3	0	2.13	2.13	0	0	0	0	0	0	0	0
3/6/2025 13:34	44502	HAMI_T2	1	1	0	2.5	2.7	0.2	0	0	0	0	0	0	0	0
3/6/2025 13:34	44505	HAMI_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
3/6/2025 13:38	13302	ORVI_T2	0	0	0	0	0	0	1.25	1.29	0	0	0	0	0	0
3/6/2025 13:44	53902	HALI_T2	1	1	0	5.1	5.2	0.1	0	0	0	0	0	0	0	0
3/6/2025 13:44	53901	HALI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/6/2025 13:44	53903	HALI_T2	2	2	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
3/6/2025 13:44	42401	GIMA_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/6/2025 13:51	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 13:51	54601	SUMM_T2	4	4	0	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
3/6/2025 13:52	10702	CATA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/6/2025 13:52	10705	CATA_T2	0	0	0	0	0	0	-1.02	-0.01	1	0	-1	900	0	-900
3/6/2025 14:15	63501	HEID_TBK1-2	1	1	0	0.8	0.3	-0.5	0.1	0.14	1	1	0	900	900	0
3/6/2025 14:17	63501	HEID_TBK1-2	1	1	0	0.8	0.3	-0.5	0.2	0.29	2	2	0	1800	1800	0
3/6/2025 14:18	63501	HEID_TBK1-2	1	1	0	0.8	0.3	-0.5	0.1	0.14	1	1	0	900	900	0
3/6/2025 14:18	55001	NEWP_T1	0	0	0	0	0	0	-0.34	-0.35	0	0	0	0	0	0
3/6/2025 14:18	55002	NEWP_T1	3	5	2	0.47	0.34	-0.13	0	0	0	0	0	0	0	0
3/6/2025 14:21	17002	RIRO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 14:23	55001	NEWP_T1	0	0	0	0	0	0	-0.35	-0.32	0	0	0	0	0	0
3/6/2025 14:23	55002	NEWP_T1	3	5	2	0.47	0.34	-0.13	0	0	0	0	0	0	0	0
3/6/2025 14:36	54206	PENN_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
3/6/2025 14:37	53801	MBRG_T2	11	14	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/6/2025 14:39	66505	SMAN_T2	2	1	-1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
3/6/2025 14:39	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 14:42	62102	ELAN_T1	0	0	0	0	0	0	0.7	0.63	0	0	0	0	0	0
3/6/2025 15:08	11203	ELHE_T1	0	0	0	0	0	0	0.78	0.76	0	0	0	0	0	0
3/6/2025 15:11	55002	NEWP_T1	3	2	-1	0.57	0.85	0.28	-0.22	-0.2	0	0	0	0	0	0
3/6/2025 15:12	46004	BERW_T2	0	0	0	0	0	0	-0.42	-0.46	0	0	0	0	0	0
3/6/2025 15:21	65503	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 15:22	55002	NEWP_T1	2	3	1	0.55	0.6	0.05	-0.2	-0.21	0	0	0	0	0	0
3/6/2025 15:29	17802	GILB_T1	0	1	1	0	0.1	0.1	0	0.02	0	0	0	0	0	0
3/6/2025 15:32	64702	LITI_T2	0	0	0	0	0	0	-0.76	-0.72	0	0	0	0	0	0
3/6/2025 15:36	54201	PENN_T1	3	3	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
3/6/2025 15:36	54203	PENN_T1	18	18	0	0.67	0.68	0.01	0.67	0.65	0	0	0	0	0	0
3/6/2025 15:38	55002	NEWP_T1	2	3	1	0.85	0.5	-0.35	-0.21	-0.22	0	0	0	0	0	0
3/6/2025 15:47	63501	HEID_TBK1-2	37	66	29	0.41	0.42	0.01	-0.35	-0.31	1	1	0	900	900	0
3/6/2025 15:59	47103	MARL_T2	0	0	0	0	0	0	-0.49	-0.53	0	0	0	0	0	0
3/6/2025 16:10	46001	BERW_T1	0	0	0	0	0	0	0.79	0.76	0	0	0	0	0	0
3/6/2025 16:14	15601	NSTR_T2	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
3/6/2025 16:14	15603	NSTR_T2	0	0	0	0	0	0	-0.53	0	0	0	0	0	0	0
3/6/2025 16:23	54206	PENN_T2	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
3/6/2025 16:32	26101	THRO_T1	0	0	0	0	0	0	-1.52	-1.46	0	0	0	0	0	0
3/6/2025 16:34	52403	GRPA_T2	2	2	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
3/6/2025 16:34	52402	GRPA_T2	5	5	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/6/2025 16:34	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/6/2025 16:34	52404	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/6/2025 16:34	52101	MEIS_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/6/2025 16:35	55002	NEWP_T1	4	5	1	0.7	0.72	0.02	-0.23	-0.22	0	0	0	0	0	0
3/6/2025 16:38	11203	ELHE_T1	0	0	0	0	0	0	0.76	0.76	0	0	0	0	0	0
3/6/2025 16:46	63802	HEMP_T1	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
3/6/2025 16:46	63804	HEMP_T1	1	1	0	6.4	6.1	-0.3	0	0	0	0	0	0	0	0
3/6/2025 16:47	63804	HEMP_T1	1	1	0	6.4	6.1	-0.3	0	0	0	0	0	0	0	0
3/6/2025 16:47	63802	HEMP_T1	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
3/6/2025 16:49	63804	HEMP_T1	1	1	0	6.4	6.1	-0.3	0	0	0	0	0	0	0	0
3/6/2025 16:49	63802	HEMP_T1	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
3/6/2025 16:51	44903	SCOT_T1	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
3/6/2025 16:55	42501	ALTA_T2	0	0	0	0	0	0	0.07	0.05	1	1	0	600	600	0
3/6/2025 16:57	42501	ALTA_T2	0	0	0	0	0	0	0.07	0.05	1	1	0	600	600	0
3/6/2025 16:58	42501	ALTA_T2	0	0	0	0	0	0	0.07	0.05	1	1	0	600	600	0
3/6/2025 16:58	10805	CHHI_T2	6	2	-4	1.53	8.5	6.97	-0.65	-0.67	0	0	0	0	0	0
3/6/2025 17:00	41304	FISH_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 17:18	11104	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 17:26	42501	ALTA_T2	0	0	0	0	0	0	0.1	0.09	1	1	0	600	600	0
3/6/2025 18:33	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.88	-0.91	0	0	0	0	0	0
3/6/2025 19:06	54505	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/6/2025 19:06	54504	ENOL_T2	0	0	0	0	0	0	-1.02	-1.02	1	1	0	600	600	0
3/6/2025 19:10	24902	WHHA_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/6/2025 19:10	24901	WHHA_T1	0	0	0	0	0	0	-0.68	-0.73	0	0	0	0	0	0
3/6/2025 19:11	66505	SMAN_T2	3	2	-1	0.43	0.65	0.22	0	0	0	0	0	0	0	0
3/6/2025 19:11	66504	SMAN_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
3/6/2025 19:12	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.96	1	1	0	900	900	0
3/6/2025 19:22	20603	GRWO_T2	41	39	-2	0.31	0.31	0	0	0	0	0	0	0	0	0
3/6/2025 19:22	20601	GRWO_T2	1	1	0	1.6	1.5	-0.1	-0.39	-0.2	0	0	0	0	0	0
3/6/2025 19:39	55001	NEWP_T1	0	0	0	0	0	0	-0.26	-0.31	0	0	0	0	0	0
3/6/2025 19:39	55002	NEWP_T1	2	3	1	0.65	0.43	-0.22	0	0	0	0	0	0	0	0
3/6/2025 19:40	51905	COPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:40	51904	COPA_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 19:42	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/6/2025 19:42	21206	ECAR_T2	1	1	0	7.7	7.7	0	0.23	0.2	0	0	0	0	0	0
3/6/2025 19:42	62607	ENGL_T1	0	0	0	0	0	0	-1.02	-1.04	1	1	0	300	300	0
3/6/2025 19:46	43801	SWIL_T1	2	2	0	2.95	2.9	-0.05	0	0	0	0	0	0	0	0
3/6/2025 19:46	43802	SWIL_T1	0	0	0	0	0	0	-0.09	-0.08	1	1	0	600	600	0
3/6/2025 19:48	54603	SUMM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:48	52202	DEVO_T2	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
3/6/2025 19:48	51906	COPA_T1	0	0	0	0	0	0	-0.99	-0.9	2	2	0	1500	1500	0
3/6/2025 19:48	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:48	51902	COPA_T1	0	0	0	0	0	0	0.52	0.5	1	1	0	1200	1200	0
3/6/2025 19:48	51904	COPA_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/6/2025 19:48	44502	HAMI_T2	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
3/6/2025 19:48	44505	HAMI_T2	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
3/6/2025 19:48	40602	PIGR_T1	0	49	49	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:48	40603	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:48	40601	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/6/2025 19:49	57403	SPAN_T1	2	2	0	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/6/2025 19:49	65503	MOJO_T2	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
3/6/2025 19:49	57401	SPAN_T1	0	0	0	0	0	0	-0.61	-0.71	1	1	0	600	600	0
3/6/2025 19:49	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/6/2025 19:49	42501	ALTA_T2	0	0	0	0	0	0	0.1	0.18	2	2	0	1200	1200	0
3/6/2025 19:50	51306	WIND_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
3/6/2025 19:50	51604	DUKE_T2	0	0	0	0	0	0	-3.16	-3.16	2	2	0	1800	1800	0
3/6/2025 19:50	52006	LING_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/6/2025 19:50	52004	LING_T2	2	2	0	5.35	5.6	0.25	0.27	0.28	0	0	0	0	0	0
3/6/2025 19:51	44502	HAMI_T2	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
3/6/2025 19:51	64204	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/6/2025 19:51	64203	KINZ_T1	0	0	0	0	0	0	-0.36	-0.32	1	1	0	600	600	0
3/6/2025 19:51	51904	COPA_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/6/2025 19:51	51906	COPA_T1	0	0	0	0	0	0	-0.99	-0.9	2	2	0	1500	1500	0
3/6/2025 19:51	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 19:51	57205	ROSS_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
3/6/2025 19:51	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:51	57403	SPAN_T1	2	2	0	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/6/2025 19:51	57401	SPAN_T1	0	0	0	0	0	0	-0.61	-0.71	1	1	0	600	600	0
3/6/2025 19:51	42501	ALTA_T2	0	0	0	0	0	0	0.09	0.03	1	1	0	600	600	0
3/6/2025 19:52	66702	STRA_T1	0	0	0	0	0	0	0.62	0.57	2	2	0	1500	1500	0
3/6/2025 19:52	40501	CRES_T2	10	6	-4	0.29	0.22	-0.07	0	0	0	0	0	0	0	0
3/6/2025 19:52	57502	LAWN_T3	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
3/6/2025 19:52	54203	PENN_T1	18	18	0	0.46	0.67	0.21	0	0	0	0	0	0	0	0
3/6/2025 19:52	42501	ALTA_T2	0	0	0	0	0	0	0.09	0.03	1	1	0	600	600	0
3/6/2025 19:52	51604	DUKE_T2	0	0	0	0	0	0	-3.16	-3.14	2	2	0	1800	1800	0
3/6/2025 19:52	67904	WNHO_T1	0	0	0	0	0	0	-2.16	-2.16	2	2	0	2100	2100	0
3/6/2025 19:52	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:52	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:52	54201	PENN_T1	3	5	2	1.17	0.92	-0.25	-0.12	-0.21	0	0	0	0	0	0
3/6/2025 19:53	57403	SPAN_T1	2	2	0	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/6/2025 19:53	57401	SPAN_T1	0	0	0	0	0	0	-0.71	-0.7	1	1	0	600	600	0
3/6/2025 19:53	62605	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:53	51904	COPA_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/6/2025 19:53	64801	MONE_T2	103	144	41	0.3	0.42	0.12	83.96	83.96	0	0	0	0	0	0
3/6/2025 19:53	43402	BENT_T1	0	0	0	0	0	0	-0.95	-0.96	1	1	0	900	900	0
3/6/2025 19:53	45902	AUBU_T1	3	6	3	3.33	0.3	-3.03	0	0	0	0	0	0	0	0
3/6/2025 19:53	40501	CRES_T2	10	6	-4	0.29	0.22	-0.07	0	0	0	0	0	0	0	0
3/6/2025 19:53	46002	BERW_T2	0	0	0	0	0	0	-1.06	-1.11	1	1	0	900	900	0
3/6/2025 19:53	67605	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/6/2025 19:53	65001	NEFF_T2	0	0	0	0	0	0	-0.32	-0.37	0	0	0	0	0	0
3/6/2025 19:53	66505	SMAN_T2	3	3	0	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
3/6/2025 19:53	62607	ENGL_T1	0	0	0	0	0	0	-1.04	-1.03	1	1	0	300	300	0
3/6/2025 19:53	64802	MONE_T2	45	66	21	0.24	0.36	0.12	0	0	0	0	0	0	0	0
3/6/2025 19:53	62606	ENGL_T1	0	25	25	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 19:53	67604	WARW_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
3/6/2025 19:53	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:53	51905	COPA_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
3/6/2025 19:53	43801	SWIL_T1	2	2	0	2.95	2.9	-0.05	0	0	0	0	0	0	0	0
3/6/2025 19:53	66502	SMAN_T2	0	0	0	0	0	0	-0.23	-0.18	0	0	0	0	0	0
3/6/2025 19:53	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:53	61304	EARL_T1	0	24	24	0	0.18	0.18	-0.26	-0.23	0	0	0	0	0	0
3/6/2025 19:54	57501	LAWN_T3	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
3/6/2025 19:54	67603	WARW_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
3/6/2025 19:54	59202	THOM_T1	23	50	27	0.2	0.34	0.14	0	0	0	0	0	0	0	0
3/6/2025 19:54	59201	THOM_T1	6	10	4	0.23	0.36	0.13	0	0	0	0	0	0	0	0
3/6/2025 19:54	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:54	52403	GRPA_T2	3	6	3	1.53	0.83	-0.7	0	0	0	0	0	0	0	0
3/6/2025 19:54	52402	GRPA_T2	5	16	11	0.54	0.71	0.17	0	0	0	0	0	0	0	0
3/6/2025 19:54	54203	PENN_T1	18	18	0	0.46	0.67	0.21	0.61	0.62	0	0	0	0	0	0
3/6/2025 19:54	24801	VALM_T1	0	0	0	0	0	0	-0.36	-0.38	0	0	0	0	0	0
3/6/2025 19:54	54201	PENN_T1	3	5	2	1.17	0.92	-0.25	-0.06	-0.1	0	0	0	0	0	0
3/6/2025 19:54	67605	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/6/2025 19:54	46903	MNTG_T2	0	0	0	0	0	0	-0.74	-0.74	1	1	0	600	600	0
3/6/2025 19:54	52404	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/6/2025 19:55	41901	REED_T1	7	8	1	0.44	0.34	-0.1	0	0	0	0	0	0	0	0
3/6/2025 19:55	42501	ALTA_T2	0	0	0	0	0	0	0.09	0.03	1	1	0	600	600	0
3/6/2025 19:55	61304	EARL_T1	0	24	24	0	0.18	0.18	0	0	0	0	0	0	0	0
3/6/2025 19:55	67604	WARW_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
3/6/2025 19:55	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/6/2025 19:55	61301	EARL_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
3/6/2025 19:55	67605	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/6/2025 19:55	67901	WNHO_T2	0	2	2	0	0.1	0.1	-0.29	-0.35	1	1	0	900	900	0
3/6/2025 19:55	41902	REED_T1	4	8	4	1.15	0.23	-0.92	0.3	0.36	0	0	0	0	0	0
3/6/2025 19:55	63804	HEMP_T1	1	1	0	5.9	5.9	0	0.79	0.8	0	0	0	0	0	0
3/6/2025 19:56	50623	CCTY_T2	6	6	0	6.02	6.27	0.25	0	0	0	0	0	0	0	0
3/6/2025 19:56	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:56	47103	MARL_T2	0	0	0	0	0	0	-0.39	-0.4	0	0	0	0	0	0
3/6/2025 19:56	65702	RVIL_T2	0	0	0	0	0	0	-1.55	-1.58	1	1	0	600	600	0
3/6/2025 19:56	61304	EARL_T1	0	24	24	0	0.18	0.18	0	0	0	0	0	0	0	0
3/6/2025 19:56	53903	HALI_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/6/2025 19:56	46001	BERW_T1	0	0	0	0	0	0	0.71	0.69	0	0	0	0	0	0
3/6/2025 19:56	54201	PENN_T1	3	5	2	1.17	0.92	-0.25	0	0	0	0	0	0	0	0
3/6/2025 19:56	50625	CCTY_T2	5	5	0	4.4	4.24	-0.16	0	0	0	0	0	0	0	0
3/6/2025 19:56	53901	HALI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/6/2025 19:56	66502	SMAN_T2	0	0	0	0	0	0	-0.23	-0.18	0	0	0	0	0	0
3/6/2025 19:56	66903	SHIL_T2	0	0	0	0	0	0	-1.25	-1.26	0	0	0	0	0	0
3/6/2025 19:56	63501	HEID_TBK1-2	128	1	-127	0.47	0.2	-0.27	0.88	0.88	0	0	0	0	0	0
3/6/2025 19:56	42401	GIMA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/6/2025 19:56	61301	EARL_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
3/6/2025 19:56	67605	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/6/2025 19:56	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:56	47102	MARL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/6/2025 19:56	46004	BERW_T2	6	2	-4	0.47	0	-0.47	-0.64	-0.63	0	0	0	0	0	0
3/6/2025 19:56	54203	PENN_T1	18	18	0	0.46	0.67	0.21	0.61	0.62	0	0	0	0	0	0
3/6/2025 19:56	67603	WARW_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
3/6/2025 19:56	53902	HALI_T2	1	1	0	4.6	5	0.4	0	0	0	0	0	0	0	0
3/6/2025 19:56	50624	CCTY_T2	2	2	0	6.75	6.35	-0.4	0	0	0	0	0	0	0	0
3/6/2025 19:56	66505	SMAN_T2	3	3	0	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
3/6/2025 19:56	67904	WNHO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:56	60701	BREC_T1	0	0	0	0	0	0	-0.52	-0.54	2	2	0	1200	1200	0
3/6/2025 19:57	46101	MACI_T2	0	0	0	0	0	0	-0.48	-0.49	1	1	0	1200	1200	0
3/6/2025 19:57	51905	COPA_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
3/6/2025 19:57	41902	REED_T1	4	8	4	1.15	0.23	-0.92	0.3	0.36	0	0	0	0	0	0
3/6/2025 19:57	63501	HEID_TBK1-2	128	1	-127	0.47	0.2	-0.27	0.44	0.44	0	0	0	0	0	0
3/6/2025 19:57	51904	COPA_T1	1	3	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/6/2025 19:57	41901	REED_T1	7	8	1	0.44	0.34	-0.1	0	0	0	0	0	0	0	0
3/6/2025 19:57	43202	MVIL_T2	0	1	1	0	0	0	-0.66	-0.67	0	0	0	0	0	0
3/6/2025 19:57	40602	PIGR_T1	0	49	49	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:57	51604	DUKE_T2	0	0	0	0	0	0	-1.58	-1.57	1	1	0	900	900	0
3/6/2025 19:57	65802	RTWN_T2	0	0	0	0	0	0	-0.19	-0.22	0	0	0	0	0	0
3/6/2025 19:57	42701	AUGU_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/6/2025 19:57	62605	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:57	40603	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:57	40601	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/6/2025 19:57	62606	ENGL_T1	0	25	25	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 19:57	67303	WYOM_T2	1	0	-1	2.4	0	-2.4	0.34	0.3	0	0	0	0	0	0
3/6/2025 19:57	61303	EARL_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
3/6/2025 19:57	57205	ROSS_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
3/6/2025 19:57	61304	EARL_T1	0	24	24	0	0.18	0.18	0	0	0	0	0	0	0	0
3/6/2025 19:58	54203	PENN_T1	18	18	0	0.46	0.67	0.21	0.61	0.62	0	0	0	0	0	0
3/6/2025 19:58	66702	STRA_T1	0	0	0	0	0	0	0.62	0.57	2	2	0	1500	1500	0
3/6/2025 19:58	66505	SMAN_T2	3	3	0	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
3/6/2025 19:58	65207	PRIN_T4	3	5	2	2.8	1.5	-1.3	0	0	0	0	0	0	0	0
3/6/2025 19:58	67904	WNHO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:58	45902	AUBU_T1	3	6	3	3.33	0.3	-3.03	0	0	1	1	0	600	600	0
3/6/2025 19:58	53601	DALM_T2	0	0	0	0	0	0	-0.14	-0.08	0	0	0	0	0	0
3/6/2025 19:58	40601	PIGR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/6/2025 19:58	65206	PRIN_T4	0	1	1	0	2.7	2.7	0	0	0	0	0	0	0	0
3/6/2025 19:58	24101	EHAZ_T1	14	33	19	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
3/6/2025 19:58	66504	SMAN_T2	0	0	0	0	0	0	-0.35	-0.46	0	0	0	0	0	0
3/6/2025 19:58	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:58	54501	ENOL_T2	0	0	0	0	0	0	-1.76	-1.74	2	2	0	1200	1200	0
3/6/2025 19:58	41301	FISH_T1	3	3	0	1.03	1.23	0.2	0	0	0	0	0	0	0	0
3/6/2025 19:58	61304	EARL_T1	0	24	24	0	0.18	0.18	0	0	0	0	0	0	0	0
3/6/2025 19:58	23401	HONE_T2	26	123	97	0.45	0.33	-0.12	-0.39	-1.33	0	0	0	0	0	0
3/6/2025 19:58	54201	PENN_T1	3	5	2	1.17	0.92	-0.25	0	0	0	0	0	0	0	0
3/6/2025 19:58	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:58	42503	ALTA_T2	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
3/6/2025 19:58	40603	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:58	67605	WARW_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/6/2025 19:58	65502	MOJO_T2	0	0	0	0	0	0	-0.9	-0.92	0	0	0	0	0	0
3/6/2025 19:58	24105	EHAZ_T1	4	7	3	6.08	6.13	0.05	0	0	0	0	0	0	0	0
3/6/2025 19:58	61306	EARL_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/6/2025 19:58	41304	FISH_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:58	40602	PIGR_T1	0	49	49	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:58	67303	WYOM_T2	1	0	-1	2.4	0	-2.4	0	0	0	0	0	0	0	0
3/6/2025 19:58	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/6/2025 19:58	40101	HUNT_T2	0	0	0	0	0	0	-1.34	-1.33	0	0	0	0	0	0
3/6/2025 19:58	58803	COCO_T1	1	1	0	1.6	1.8	0.2	0	-0.02	0	0	0	0	0	0
3/6/2025 19:58	67603	WARW_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
3/6/2025 19:58	51604	DUKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:58	42501	ALTA_T2	0	0	0	0	0	0	0.09	0.03	1	1	0	600	600	0
3/6/2025 19:58	24102	EHAZ_T1	3	7	4	0.63	1.08	0.45	-0.39	-0.44	0	0	0	0	0	0
3/6/2025 19:58	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:58	61701	ELIZ_T1	1	1	0	4.6	5	0.4	0.38	0.18	0	0	0	0	0	0
3/6/2025 19:58	64704	LITI_T1	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
3/6/2025 19:58	10805	CHHI_T2	1	9	8	8	8	0	-1.28	-1.13	1	1	0	600	600	0
3/6/2025 19:59	56501	ROCK_T2	1	1	0	1.5	0.9	-0.6	-1.04	-1.06	0	0	0	0	0	0
3/6/2025 19:59	60502	NMAN_T2	0	0	0	0	0	0	-0.22	-0.24	0	0	0	0	0	0
3/6/2025 19:59	66505	SMAN_T2	3	3	0	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
3/6/2025 19:59	63501	HEID_TBK1-2	128	1	-127	0.47	0.2	-0.27	0.44	0.44	0	0	0	0	0	0
3/6/2025 19:59	60701	BREC_T1	0	0	0	0	0	0	-0.52	-0.54	2	2	0	1200	1200	0
3/6/2025 19:59	51303	WIND_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
3/6/2025 19:59	61303	EARL_T1	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
3/6/2025 19:59	40501	CRES_T2	10	6	-4	0.29	0.22	-0.07	0	0	0	0	0	0	0	0
3/6/2025 19:59	53802	MBRG_T2	0	0	0	0	0	0	0.51	0.54	0	0	0	0	0	0
3/6/2025 19:59	66502	SMAN_T2	0	0	0	0	0	0	-0.47	-0.37	0	0	0	0	0	0
3/6/2025 19:59	55002	NEWP_T1	3	3	0	0.43	0.63	0.2	0	0	0	0	0	0	0	0
3/6/2025 19:59	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 19:59	55405	SHER_T1	6	6	0	0.82	0.97	0.15	0	0	0	0	0	0	0	0
3/6/2025 19:59	43202	MVIL_T2	0	1	1	0	0	0	-0.66	-0.67	0	0	0	0	0	0
3/6/2025 19:59	61701	ELIZ_T1	1	1	0	4.6	5	0.4	0	0	0	0	0	0	0	0
3/6/2025 19:59	47104	MARL_T1	0	0	0	0	0	0	-2.14	-2.19	0	0	0	0	0	0
3/6/2025 19:59	61001	DONV_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
3/6/2025 19:59	51306	WIND_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
3/6/2025 19:59	61703	ELIZ_T1	0	0	0	0	0	0	-2.47	-2.47	2	2	0	2100	2100	0
3/6/2025 19:59	66504	SMAN_T2	0	0	0	0	0	0	-0.71	-0.91	0	0	0	0	0	0
3/6/2025 19:59	57201	ROSS_T1	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
3/6/2025 19:59	67303	WYOM_T2	1	0	-1	2.4	0	-2.4	0.34	0.3	0	0	0	0	0	0
3/6/2025 19:59	57205	ROSS_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
3/6/2025 19:59	67903	WNHO_T1	0	0	0	0	0	0	1.08	1.1	1	1	0	1200	1200	0
3/6/2025 19:59	44801	EDAN_T2	1	1	0	0.5	0.2	-0.3	-0.38	-0.43	0	0	0	0	0	0
3/6/2025 19:59	61304	EARL_T1	0	24	24	0	0.18	0.18	-0.51	-0.46	0	0	0	0	0	0
3/6/2025 19:59	45902	AUBU_T1	3	6	3	3.33	0.3	-3.03	0	0	2	2	0	1200	1200	0
3/6/2025 19:59	51901	COPA_T1	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
3/6/2025 19:59	44301	BEAV_T2	2	1	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/6/2025 19:59	60501	NMAN_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
3/6/2025 19:59	47101	MARL_T1	8	7	-1	0.66	0.27	-0.39	0	0	0	0	0	0	0	0
3/6/2025 19:59	42501	ALTA_T2	0	0	0	0	0	0	0.09	0.03	1	1	0	600	600	0
3/6/2025 19:59	42601	TUSC_T1	0	0	0	0	0	0	-0.32	-0.38	2	2	0	1800	1800	0
3/6/2025 19:59	51906	COPA_T1	0	0	0	0	0	0	-0.9	-1	2	2	0	1500	1500	0
3/6/2025 19:59	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/6/2025 19:59	55001	NEWP_T1	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
3/6/2025 19:59	51904	COPA_T1	1	3	2	0.1	0.3	0.2	-1.02	-1.02	2	2	0	1200	1200	0
3/6/2025 20:00	42503	ALTA_T2	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
3/6/2025 20:00	52402	GRPA_T2	13	10	-3	0.66	0.57	-0.09	0	0	0	0	0	0	0	0
3/6/2025 20:00	57401	SPAN_T1	0	0	0	0	0	0	-0.71	-0.7	1	1	0	600	600	0
3/6/2025 20:00	14801	TREI_T2	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
3/6/2025 20:00	67605	WARW_T1	1	2	1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/6/2025 20:00	42701	AUGU_T1	0	1	1	0	0.4	0.4	0	0	2	2	0	1800	1800	0
3/6/2025 20:00	52403	GRPA_T2	3	6	3	0.87	0	-0.87	-0.33	-0.34	0	0	0	0	0	0
3/6/2025 20:00	67603	WARW_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
3/6/2025 20:00	46101	MACI_T2	0	0	0	0	0	0	-0.48	-0.49	1	1	0	1200	1200	0
3/6/2025 20:00	50302	CEDA_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	1200	1200	0
3/6/2025 20:00	40504	CRES_T1	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
3/6/2025 20:00	12602	MACA_T1	0	0	0	0	0	0	-0.81	-0.82	0	0	0	0	0	0
3/6/2025 20:00	51304	WIND_T2	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
3/6/2025 20:00	57403	SPAN_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
3/6/2025 20:00	20601	GRWO_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
3/6/2025 20:00	20602	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 20:00	65702	RVIL_T2	0	0	0	0	0	0	-1.55	-1.58	1	1	0	600	600	0
3/6/2025 20:00	67604	WARW_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
3/6/2025 20:00	46902	MNTG_T2	0	0	0	0	0	0	-0.55	-0.55	1	1	0	600	600	0
3/6/2025 20:00	61001	DONV_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
3/6/2025 20:00	10602	BLGL_T2	1	1	0	7.6	8.1	0.5	0.36	0.32	0	0	0	0	0	0
3/6/2025 20:00	51904	COPA_T1	1	5	4	0.1	0.24	0.14	-1.02	-1.02	2	2	0	1200	1200	0
3/6/2025 20:00	64702	LITI_T2	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
3/6/2025 20:00	45902	AUBU_T1	6	3	-3	0.42	0	-0.42	0	0	2	2	0	1200	1200	0
3/6/2025 20:00	20603	GRWO_T2	33	44	11	0.3	0.37	0.07	0.46	0.44	0	0	0	0	0	0
3/6/2025 20:00	15601	NSTR_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/6/2025 20:00	15704	TANN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:00	15701	TANN_T1	1	1	0	4.5	4.6	0.1	0	0	0	0	0	0	0	0
3/6/2025 20:00	52404	GRPA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/6/2025 20:00	15603	NSTR_T2	0	0	0	0	0	0	-0.47	-0.45	0	0	0	0	0	0
3/6/2025 20:00	42501	ALTA_T2	0	0	0	0	0	0	0.09	0.03	1	1	0	600	600	0
3/6/2025 20:00	22602	KIMB_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
3/6/2025 20:01	60701	BREC_T1	0	1	1	0	0	0	-0.52	-0.54	2	2	0	1200	1200	0
3/6/2025 20:01	52204	DEVO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:01	61002	DONV_T2	0	0	0	0	0	0	-0.84	-0.81	1	1	0	600	600	0
3/6/2025 20:01	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:01	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:01	67605	WARW_T1	1	2	1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/6/2025 20:01	61304	EARL_T1	9	55	46	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/6/2025 20:01	42601	TUSC_T1	0	0	0	0	0	0	-0.32	-0.38	2	2	0	1800	1800	0
3/6/2025 20:01	66505	SMAN_T2	2	3	1	0.6	1.2	0.6	0	0	0	0	0	0	0	0
3/6/2025 20:01	67904	WNHO_T1	0	0	0	0	0	0	-2.16	-2.16	2	2	0	2100	2100	0
3/6/2025 20:01	40601	PIGR_T1	0	0	0	0	0	0	-0.8	-0.77	0	0	0	0	0	0
3/6/2025 20:01	62605	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 20:01	66502	SMAN_T2	0	0	0	0	0	0	-0.23	-0.18	0	0	0	0	0	0
3/6/2025 20:01	52001	LING_T1	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
3/6/2025 20:01	62606	ENGL_T1	0	55	55	0	0.15	0.15	-1.46	-1.49	1	1	0	900	900	0
3/6/2025 20:01	40603	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:01	57201	ROSS_T1	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
3/6/2025 20:01	60201	ATGL_T2	0	0	0	0	0	0	0.06	0.13	0	0	0	0	0	0
3/6/2025 20:02	52004	LING_T2	2	2	0	5.45	5.6	0.15	0.28	0.26	0	0	0	0	0	0
3/6/2025 20:02	52006	LING_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/6/2025 20:02	57201	ROSS_T1	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
3/6/2025 20:02	60701	BREC_T1	0	1	1	0	0	0	-0.52	-0.54	2	2	0	1200	1200	0
3/6/2025 20:02	61304	EARL_T1	9	55	46	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/6/2025 20:02	54206	PENN_T2	0	0	0	0	0	0	-0.06	-0.11	0	0	0	0	0	0
3/6/2025 20:02	62607	ENGL_T1	0	0	0	0	0	0	-1.04	-1.03	1	1	0	300	300	0
3/6/2025 20:02	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:02	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:02	61306	EARL_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/6/2025 20:02	67603	WARW_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
3/6/2025 20:02	51604	DUKE_T2	0	0	0	0	0	0	-4.74	-4.71	3	3	0	2700	2700	0
3/6/2025 20:02	13303	ORVI_T1	0	0	0	0	0	0	0.84	0.81	0	0	0	0	0	0
3/6/2025 20:02	51303	WIND_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
3/6/2025 20:02	40601	PIGR_T1	0	0	0	0	0	0	-0.8	-0.77	0	0	0	0	0	0
3/6/2025 20:02	60201	ATGL_T2	0	0	0	0	0	0	0.06	0.13	0	0	0	0	0	0
3/6/2025 20:02	45902	AUBU_T1	6	3	-3	0.42	0	-0.42	0	0	1	1	0	600	600	0
3/6/2025 20:02	57501	LAWN_T3	0	0	0	0	0	0	-0.72	-0.71	0	0	0	0	0	0
3/6/2025 20:02	64704	LITI_T1	0	0	0	0	0	0	0.7	0.67	0	0	0	0	0	0
3/6/2025 20:02	61802	EELI_T2	0	0	0	0	0	0	-0.26	-0.23	0	0	0	0	0	0
3/6/2025 20:02	42501	ALTA_T2	0	0	0	0	0	0	0.18	0.06	2	2	0	1200	1200	0
3/6/2025 20:02	63802	HEMP_T1	0	0	0	0	0	0	0.21	0.12	0	0	0	0	0	0
3/6/2025 20:02	43802	SWIL_T1	0	0	0	0	0	0	-0.08	-0.11	1	1	0	600	600	0
3/6/2025 20:02	66505	SMAN_T2	2	3	1	0.6	1.2	0.6	0	0	0	0	0	0	0	0
3/6/2025 20:02	43801	SWIL_T1	2	2	0	2.95	2.9	-0.05	0	0	0	0	0	0	0	0
3/6/2025 20:02	56501	ROCK_T2	1	1	0	1.7	0.6	-1.1	-1.04	-1.06	0	0	0	0	0	0
3/6/2025 20:02	44502	HAMI_T2	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
3/6/2025 20:02	67303	WYOM_T2	0	0	0	0	0	0	0.34	0.3	0	0	0	0	0	0
3/6/2025 20:02	67605	WARW_T1	1	2	1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/6/2025 20:02	40603	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:02	67204	TEHI_T2	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
3/6/2025 20:02	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
3/6/2025 20:02	57401	SPAN_T1	0	0	0	0	0	0	-0.71	-0.7	1	1	0	600	600	0
3/6/2025 20:02	42701	AUGU_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/6/2025 20:02	44301	BEAV_T2	1	0	-1	0.7	0	-0.7	0.42	0.46	1	1	0	600	600	0
3/6/2025 20:02	51306	WIND_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
3/6/2025 20:02	57403	SPAN_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
3/6/2025 20:02	62606	ENGL_T1	0	55	55	0	0.15	0.15	0	0	0	0	0	0	0	0
3/6/2025 20:02	67604	WARW_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
3/6/2025 20:02	62605	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 20:02	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:02	66502	SMAN_T2	0	0	0	0	0	0	-0.7	-0.55	0	0	0	0	0	0
3/6/2025 20:03	65205	PRIN_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
3/6/2025 20:03	65702	RVIL_T2	0	0	0	0	0	0	-1.55	-1.58	1	1	0	600	600	0
3/6/2025 20:03	63501	HEID_TBK1-2	1	1	0	0.2	0.4	0.2	0.44	0.44	0	0	0	0	0	0
3/6/2025 20:03	40603	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:03	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/6/2025 20:03	65203	PRIN_T1	0	0	0	0	0	0	0	0	1	0	-1	900	0	-900
3/6/2025 20:03	65202	PRIN_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/6/2025 20:03	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:03	51303	WIND_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
3/6/2025 20:03	67904	WNHO_T1	0	0	0	0	0	0	-6.48	-6.48	6	6	0	6300	6300	0
3/6/2025 20:03	67303	WYOM_T2	0	0	0	0	0	0	0.34	0.3	0	0	0	0	0	0
3/6/2025 20:03	63802	HEMP_T1	0	0	0	0	0	0	0.41	0.24	0	0	0	0	0	0
3/6/2025 20:03	66504	SMAN_T2	0	0	0	0	0	0	-0.35	-0.46	0	0	0	0	0	0
3/6/2025 20:03	59302	MCAL_T1	0	0	0	0	0	0	-0.58	-0.56	1	1	0	600	600	0
3/6/2025 20:03	40501	CRES_T2	5	5	0	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
3/6/2025 20:03	62102	ELAN_T1	0	0	0	0	0	0	0.84	0.69	0	0	0	0	0	0
3/6/2025 20:03	67901	WNHO_T2	1	2	1	0.1	0.15	0.05	-0.29	-0.35	1	1	0	900	900	0
3/6/2025 20:03	41801	GOO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:03	51902	COPA_T1	0	0	0	0	0	0	1	0.94	2	2	0	2400	2400	0
3/6/2025 20:03	67603	WARW_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
3/6/2025 20:03	61304	EARL_T1	9	55	46	0.1	0.23	0.13	-0.26	-0.23	0	0	0	0	0	0
3/6/2025 20:03	42501	ALTA_T2	0	0	0	0	0	0	0.09	0.03	1	1	0	600	600	0
3/6/2025 20:03	46102	MACI_T1	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
3/6/2025 20:03	45801	HEGI_T1	0	0	0	0	0	0	-0.26	-0.3	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/6/2025 20:03	60701	BREC_T1	0	1	1	0	0	0	-1.04	-1.09	4	4	0	2400	2400	0
3/6/2025 20:03	59301	MCAL_T1	2	1	-1	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
3/6/2025 20:03	51904	COPA_T1	1	5	4	0.1	0.24	0.14	0	0	0	0	0	0	0	0
3/6/2025 20:03	64204	KINZ_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
3/6/2025 20:03	42201	SHEN_T2	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
3/6/2025 20:03	21203	ECAR_T1	1	0	-1	0.1	0	-0.1	-0.51	-0.51	0	0	0	0	0	0
3/6/2025 20:03	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:03	67605	WARW_T1	1	2	1	0.5	0.1	-0.4	-0.96	-0.81	0	0	0	0	0	0
3/6/2025 20:03	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
3/6/2025 20:03	57201	ROSS_T1	0	0	0	0	0	0	-0.66	-0.65	0	0	0	0	0	0
3/6/2025 20:03	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:03	66505	SMAN_T2	2	3	1	0.6	1.2	0.6	0	0	0	0	0	0	0	0
3/6/2025 20:03	67902	WNHO_T2	0	0	0	0	0	0	-0.14	-0.15	1	1	0	900	900	0
3/6/2025 20:04	24101	EHAZ_T1	14	38	24	0.4	0.46	0.06	0	0	0	0	0	0	0	0
3/6/2025 20:04	52403	GRPA_T2	3	6	3	0.87	0	-0.87	-0.33	-0.34	0	0	0	0	0	0
3/6/2025 20:04	67402	WAKE_T2	0	0	0	0	0	0	-0.31	-0.31	1	1	0	600	600	0
3/6/2025 20:04	11104	EGYP_T1	1	0	-1	0.1	0	-0.1	0.4	0.37	0	0	0	0	0	0
3/6/2025 20:04	64802	MONE_T2	57	83	26	0.34	0.34	0	-0.01	-0.01	0	0	0	0	0	0
3/6/2025 20:04	52102	MEIS_T1	0	2	2	0	0	0	0	0	1	1	0	450	450	0
3/6/2025 20:04	51904	COPA_T1	1	5	4	0.1	0.24	0.14	0	0	0	0	0	0	0	0
3/6/2025 20:04	24105	EHAZ_T1	4	17	13	6.13	3.77	-2.36	0	0	0	0	0	0	0	0
3/6/2025 20:04	11406	FARM_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
3/6/2025 20:04	66505	SMAN_T2	2	3	1	0.6	1.2	0.6	-0.48	-0.51	1	1	0	900	900	0
3/6/2025 20:04	65205	PRIN_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
3/6/2025 20:04	67204	TEHI_T2	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
3/6/2025 20:04	63501	HEID_TBK1-2	1	1	0	0.2	0.4	0.2	0.44	0.44	0	0	0	0	0	0
3/6/2025 20:04	24102	EHAZ_T1	6	19	13	1.07	0.84	-0.23	0	0	0	0	0	0	0	0
3/6/2025 20:04	40501	CRES_T2	5	5	0	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
3/6/2025 20:04	60201	ATGL_T2	0	0	0	0	0	0	0.12	0.26	0	0	0	0	0	0
3/6/2025 20:04	58201	NEWV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/6/2025 20:04	66502	SMAN_T2	0	0	0	0	0	0	-0.23	-0.18	0	0	0	0	0	0
3/6/2025 20:04	51604	DUKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:04	61404	SLIT_T1	0	0	0	0	0	0	-0.17	-0.16	0	0	0	0	0	0
3/6/2025 20:04	61402	SLIT_T1	1	1	0	1.1	0.6	-0.5	0	0	0	0	0	0	0	0
3/6/2025 20:04	11405	FARM_T1	1	1	0	4.8	5.1	0.3	0	0	0	0	0	0	0	0
3/6/2025 20:04	65202	PRIN_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/6/2025 20:04	40602	PIGR_T1	0	0	0	0	0	0	-1.2	-1.22	1	1	0	600	600	0
3/6/2025 20:04	57401	SPAN_T1	0	0	0	0	0	0	-0.71	-0.7	1	1	0	600	600	0
3/6/2025 20:04	67605	WARW_T1	1	2	1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/6/2025 20:04	52404	GRPA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/6/2025 20:04	40603	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:04	61304	EARL_T1	9	55	46	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/6/2025 20:04	56501	ROCK_T2	1	1	0	1.7	0.6	-1.1	-1.04	-1.06	0	0	0	0	0	0
3/6/2025 20:04	67604	WARW_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
3/6/2025 20:04	61001	DONV_T1	0	0	0	0	0	0	-0.04	-0.01	0	0	0	0	0	0
3/6/2025 20:04	24104	EHAZ_T1	0	0	0	0	0	0	-2.19	-2.19	1	1	0	1200	1200	0
3/6/2025 20:04	11407	FARM_T1	0	0	0	0	0	0	-1.16	-1.16	0	0	0	0	0	0
3/6/2025 20:04	67603	WARW_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
3/6/2025 20:04	42503	ALTA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:04	66504	SMAN_T2	0	0	0	0	0	0	-0.35	-0.46	0	0	0	0	0	0
3/6/2025 20:04	65702	RVIL_T2	0	0	0	0	0	0	-3.1	-3.16	2	2	0	1200	1200	0
3/6/2025 20:04	44801	EDAN_T2	1	1	0	0.3	0.2	-0.1	-0.38	-0.43	0	0	0	0	0	0
3/6/2025 20:04	64801	MONE_T2	129	154	25	0.38	0.53	0.15	0	0	0	0	0	0	0	0
3/6/2025 20:04	60701	BREC_T1	0	1	1	0	0	0	-0.52	-0.54	2	2	0	1200	1200	0
3/6/2025 20:04	52402	GRPA_T2	13	10	-3	0.66	0.57	-0.09	0	0	0	0	0	0	0	0
3/6/2025 20:04	54206	PENN_T2	0	0	0	0	0	0	-0.06	-0.11	0	0	0	0	0	0
3/6/2025 20:04	57403	SPAN_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
3/6/2025 20:04	52101	MEIS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/6/2025 20:04	51902	COPA_T1	0	0	0	0	0	0	0.5	0.47	1	1	0	1200	1200	0
3/6/2025 20:04	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:05	60701	BREC_T1	0	1	1	0	0	0	-0.52	-0.54	2	2	0	1200	1200	0
3/6/2025 20:05	51906	COPA_T1	0	0	0	0	0	0	-1.81	-2	4	4	0	3000	3000	0
3/6/2025 20:05	46901	MNTG_T2	0	0	0	0	0	0	1	0.9	0	0	0	0	0	0
3/6/2025 20:05	52404	GRPA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/6/2025 20:05	63802	HEMP_T1	0	0	0	0	0	0	0.21	0.12	0	0	0	0	0	0
3/6/2025 20:05	57402	SPAN_T2	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
3/6/2025 20:05	67904	WNHO_T1	0	0	0	0	0	0	-2.16	-2.16	2	2	0	2100	2100	0
3/6/2025 20:05	52403	GRPA_T2	3	6	3	0.87	0	-0.87	0	0	0	0	0	0	0	0
3/6/2025 20:05	62606	ENGL_T1	0	55	55	0	0.15	0.15	0	0	0	0	0	0	0	0
3/6/2025 20:05	52202	DEVO_T2	0	0	0	0	0	0	0.02	-0.01	0	0	0	0	0	0
3/6/2025 20:05	65702	RVIL_T2	0	0	0	0	0	0	-1.55	-1.58	1	1	0	600	600	0
3/6/2025 20:05	44505	HAMI_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
3/6/2025 20:05	42201	SHEN_T2	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
3/6/2025 20:05	67502	WEWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:05	61306	EARL_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/6/2025 20:05	52402	GRPA_T2	13	10	-3	0.66	0.57	-0.09	0	0	0	0	0	0	0	0
3/6/2025 20:05	61304	EARL_T1	9	55	46	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/6/2025 20:05	62605	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 20:05	52204	DEVO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:05	44502	HAMI_T2	1	1	0	2.2	2.4	0.2	0	0	0	0	0	0	0	0
3/6/2025 20:05	62601	ENGL_T1	0	0	0	0	0	0	0.1	0.04	0	0	0	0	0	0
3/6/2025 20:05	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
3/6/2025 20:05	65503	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:05	67605	WARW_T1	1	2	1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/6/2025 20:05	51904	COPA_T1	1	5	4	0.1	0.24	0.14	0	0	0	0	0	0	0	0
3/6/2025 20:05	55002	NEWP_T1	2	4	2	0.6	0.5	-0.1	-0.18	-0.18	0	0	0	0	0	0
3/6/2025 20:05	67603	WARW_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
3/6/2025 20:06	67204	TEHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:06	11405	FARM_T1	1	1	0	4.8	5.1	0.3	0	0	0	0	0	0	0	0
3/6/2025 20:06	20401	ASHF_T2	0	0	0	0	0	0	0.46	0.42	0	0	0	0	0	0
3/6/2025 20:06	67603	WARW_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
3/6/2025 20:06	21206	ECAR_T2	1	1	0	7.7	8	0.3	0.2	0.19	0	0	0	0	0	0
3/6/2025 20:06	57403	SPAN_T1	2	0	-2	0.45	0	-0.45	0.14	0.14	0	0	0	0	0	0
3/6/2025 20:06	42501	ALTA_T2	0	0	0	0	0	0	0.03	0.03	1	1	0	600	600	0
3/6/2025 20:06	13302	ORVI_T2	0	0	0	0	0	0	1.49	1.43	0	0	0	0	0	0
3/6/2025 20:06	16102	BING_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
3/6/2025 20:06	12604	MACA_T1	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
3/6/2025 20:06	63303	GREE_T1	0	0	0	0	0	0	0.33	0.32	2	1	-1	1800	600	-1200
3/6/2025 20:06	11406	FARM_T1	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
3/6/2025 20:06	57205	ROSS_T1	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
3/6/2025 20:06	11407	FARM_T1	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
3/6/2025 20:06	11407	FARM_T1	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
3/6/2025 20:06	11407	FARM_T1	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
3/6/2025 20:06	11407	FARM_T1	0	0	0	0	0	0	-0.58	-0.58	0	0	0	0	0	0
3/6/2025 20:06	21204	ECAR_T2	1	2	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:06	40501	CRES_T2	5	5	0	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
3/6/2025 20:06	67605	WARW_T1	1	2	1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/6/2025 20:06	63501	HEID_TBK1-2	1	1	0	0.2	0.4	0.2	0.44	0.39	0	0	0	0	0	0
3/6/2025 20:06	51901	COPA_T1	0	0	0	0	0	0	-0.04	-0.06	0	0	0	0	0	0
3/6/2025 20:06	51905	COPA_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
3/6/2025 20:06	63305	GREE_T1	3	3	0	0.23	0.27	0.04	0	0	0	0	0	0	0	0
3/6/2025 20:06	51904	COPA_T1	1	5	4	0.1	0.24	0.14	0	0	0	0	0	0	0	0
3/6/2025 20:06	67901	WNHO_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/6/2025 20:06	14801	TREI_T2	0	0	0	0	0	0	0.64	0.62	0	0	0	0	0	0
3/6/2025 20:07	20601	GRWO_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
3/6/2025 20:07	67904	WNHO_T1	0	0	0	0	0	0	-2.16	-2.15	2	2	0	2100	2100	0
3/6/2025 20:07	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:07	66702	STRA_T1	0	0	0	0	0	0	0.57	0.64	2	2	0	1500	1500	0
3/6/2025 20:07	61701	ELIZ_T1	1	1	0	4.5	5.2	0.7	0	0	0	0	0	0	0	0
3/6/2025 20:07	65702	RVIL_T2	0	0	0	0	0	0	-1.58	-1.54	1	1	0	600	600	0
3/6/2025 20:07	53501	EVIL_T2	0	0	0	0	0	0	-0.63	-0.59	1	1	0	600	600	0
3/6/2025 20:07	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:07	20602	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 20:07	61703	ELIZ_T1	0	0	0	0	0	0	-2.47	-2.46	2	2	0	2100	2100	0
3/6/2025 20:07	51906	COPA_T1	0	0	0	0	0	0	-2	-2.12	4	4	0	3000	3000	0
3/6/2025 20:07	66701	STRA_T1	0	0	0	0	0	0	-0.13	-0.13	1	1	0	600	600	0
3/6/2025 20:07	20603	GRWO_T2	33	44	11	0.3	0.37	0.07	0.44	0.45	0	0	0	0	0	0
3/6/2025 20:07	66505	SMAN_T2	2	3	1	0.6	1.2	0.6	0	0	0	0	0	0	0	0
3/6/2025 20:07	62606	ENGL_T1	0	55	55	0	0.15	0.15	-1.49	-1.52	1	1	0	900	900	0
3/6/2025 20:07	51301	WIND_T1	0	0	0	0	0	0	-0.25	-0.21	0	0	0	0	0	0
3/6/2025 20:07	67605	WARW_T1	1	2	1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/6/2025 20:07	57403	SPAN_T1	2	0	-2	0.45	0	-0.45	0.28	0.29	0	0	0	0	0	0
3/6/2025 20:07	26101	THRO_T1	0	0	0	0	0	0	-1.4	-1.54	0	0	0	0	0	0
3/6/2025 20:07	51904	COPA_T1	1	5	4	0.1	0.24	0.14	-2.04	-2.02	4	4	0	2400	2400	0
3/6/2025 20:07	66503	SMAN_T2	0	0	0	0	0	0	0.4	0.34	0	0	0	0	0	0
3/6/2025 20:07	67603	WARW_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
3/6/2025 20:07	62602	ENGL_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
3/6/2025 20:07	41301	FISH_T1	3	3	0	1.2	1.13	-0.07	-0.28	-0.22	0	0	0	0	0	0
3/6/2025 20:07	62605	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 20:08	67605	WARW_T1	1	2	1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/6/2025 20:08	61002	DONV_T2	0	0	0	0	0	0	-0.81	-0.84	1	1	0	600	600	0
3/6/2025 20:08	67903	WNHO_T1	0	0	0	0	0	0	1.1	1.12	1	1	0	1200	1200	0
3/6/2025 20:08	57403	SPAN_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
3/6/2025 20:08	61701	ELIZ_T1	1	1	0	4.5	5.2	0.7	0	0	0	0	0	0	0	0
3/6/2025 20:08	67603	WARW_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
3/6/2025 20:08	41901	REED_T1	8	7	-1	0.34	0.37	0.03	0	0	0	0	0	0	0	0
3/6/2025 20:08	41902	REED_T1	6	5	-1	0.63	0.5	-0.13	0.36	0.3	0	0	0	0	0	0
3/6/2025 20:08	14801	TREI_T2	0	0	0	0	0	0	0.62	0.66	0	0	0	0	0	0
3/6/2025 20:08	10705	CATA_T2	0	0	0	0	0	0	-1.23	-1.18	0	0	0	0	0	0
3/6/2025 20:08	45902	AUBU_T1	6	3	-3	0.42	0	-0.42	0	0	1	1	0	600	600	0
3/6/2025 20:08	61703	ELIZ_T1	0	0	0	0	0	0	-2.47	-2.46	2	2	0	2100	2100	0
3/6/2025 20:08	20403	ASHF_T2	0	0	0	0	0	0	0.43	0.57	0	0	0	0	0	0
3/6/2025 20:08	10801	CHHI_T1	0	1	1	0	0	0	-2.08	-2.03	3	3	0	2100	2100	0
3/6/2025 20:08	61304	EARL_T1	9	55	46	0.1	0.23	0.13	-0.46	-0.48	0	0	0	0	0	0
3/6/2025 20:08	66505	SMAN_T2	2	3	1	0.6	1.2	0.6	0	0	0	0	0	0	0	0
3/6/2025 20:08	61303	EARL_T1	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
3/6/2025 20:08	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:08	66702	STRA_T1	0	0	0	0	0	0	0.57	0.64	2	2	0	1500	1500	0
3/6/2025 20:08	67604	WARW_T1	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
3/6/2025 20:08	61306	EARL_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
3/6/2025 20:08	66504	SMAN_T2	0	0	0	0	0	0	-0.46	-0.4	0	0	0	0	0	0
3/6/2025 20:08	53801	MBRG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:08	57401	SPAN_T1	0	0	0	0	0	0	-0.7	-0.66	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/6/2025 20:08	13303	ORVI_T1	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
3/6/2025 20:08	46901	MNTG_T2	0	0	0	0	0	0	0.9	0.7	0	0	0	0	0	0
3/6/2025 20:08	51904	COPA_T1	1	5	4	0.1	0.24	0.14	-1.02	-1.01	2	2	0	1200	1200	0
3/6/2025 20:08	51906	COPA_T1	0	0	0	0	0	0	-1	-1.06	2	2	0	1500	1500	0
3/6/2025 20:09	66505	SMAN_T2	2	3	1	0.6	1.2	0.6	-0.51	-0.55	1	1	0	900	900	0
3/6/2025 20:09	24202	PROV_T4	21	28	7	0.18	0.14	-0.04	-0.84	-0.84	1	1	0	1200	1200	0
3/6/2025 20:09	51902	COPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:09	67201	TEHI_T1	0	0	0	0	0	0	-0.11	-0.12	1	1	0	900	900	0
3/6/2025 20:09	53601	DALM_T2	0	0	0	0	0	0	-0.08	-0.14	0	0	0	0	0	0
3/6/2025 20:09	40504	CRES_T1	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
3/6/2025 20:09	60701	BREC_T1	0	1	1	0	0	0	-1.09	-1.12	4	4	0	2400	2400	0
3/6/2025 20:09	61304	EARL_T1	9	55	46	0.1	0.23	0.13	-0.23	-0.24	0	0	0	0	0	0
3/6/2025 20:09	61703	ELIZ_T1	0	0	0	0	0	0	-2.47	-2.46	2	2	0	2100	2100	0
3/6/2025 20:09	52503	PROG_T2	0	0	0	0	0	0	0.42	0.43	0	0	0	0	0	0
3/6/2025 20:09	57501	LAWN_T3	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
3/6/2025 20:09	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:09	51904	COPA_T1	1	5	4	0.1	0.24	0.14	-1.02	-1.01	2	2	0	1200	1200	0
3/6/2025 20:09	57401	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:09	40501	CRES_T2	5	5	0	0.24	0.22	-0.02	0	0	0	0	0	0	0	0
3/6/2025 20:09	61701	ELIZ_T1	1	1	0	4.5	5.2	0.7	0	0	0	0	0	0	0	0
3/6/2025 20:09	63501	HEID_TBK1-2	1	1	0	0.2	0.4	0.2	0.44	0.39	0	0	0	0	0	0
3/6/2025 20:09	67303	WYOM_T2	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
3/6/2025 20:09	64802	MONE_T2	57	83	26	0.34	0.34	0	0	0	0	0	0	0	0	0
3/6/2025 20:09	66504	SMAN_T2	0	0	0	0	0	0	-0.46	-0.4	0	0	0	0	0	0
3/6/2025 20:09	64801	MONE_T2	129	154	25	0.38	0.53	0.15	0	0	0	0	0	0	0	0
3/6/2025 20:09	57403	SPAN_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
3/6/2025 20:09	67203	TEHI_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
3/6/2025 20:09	44301	BEAV_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/6/2025 20:09	51906	COPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:09	66703	STRA_T1	0	0	0	0	0	0	-0.18	-0.15	0	0	0	0	0	0
3/6/2025 20:10	15001	BLMO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/6/2025 20:10	12001	HATF_T1	0	0	0	0	0	0	-0.05	0.01	2	2	0	1800	1800	0
3/6/2025 20:10	64202	KINZ_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/6/2025 20:10	14802	TREI_T2	0	0	0	0	0	0	1.22	1.15	0	0	0	0	0	0
3/6/2025 20:10	64204	KINZ_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
3/6/2025 20:10	13303	ORVI_T1	0	0	0	0	0	0	0.81	0.8	0	0	0	0	0	0
3/6/2025 20:10	42601	TUSC_T1	0	0	0	0	0	0	-0.38	-0.4	2	2	0	1800	1800	0
3/6/2025 20:10	10801	CHHI_T1	0	1	1	0	0	0	-4.15	-4.05	6	6	0	4200	4200	0
3/6/2025 20:10	64203	KINZ_T1	0	0	0	0	0	0	-0.32	-0.32	1	1	0	600	600	0
3/6/2025 20:10	61304	EARL_T1	9	55	46	0.1	0.23	0.13	-0.23	-0.24	0	0	0	0	0	0
3/6/2025 20:10	50834	WALN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:10	11104	EGYP_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/6/2025 20:10	10705	CATA_T2	0	0	0	0	0	0	-3.69	-3.54	0	0	0	0	0	0
3/6/2025 20:10	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:10	67605	WARW_T1	1	2	1	0.5	0.1	-0.4	-0.81	-1.02	0	0	0	0	0	0
3/6/2025 20:10	67603	WARW_T1	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
3/6/2025 20:10	13302	ORVI_T2	0	0	0	0	0	0	1.43	1.31	0	0	0	0	0	0
3/6/2025 20:11	67901	WNHO_T2	1	2	1	0.1	0.15	0.05	-0.35	-0.31	1	1	0	900	900	0
3/6/2025 20:11	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:11	55001	NEWP_T1	0	0	0	0	0	0	-0.3	-0.26	0	0	0	0	0	0
3/6/2025 20:11	55002	NEWP_T1	2	4	2	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/6/2025 20:11	61703	ELIZ_T1	0	0	0	0	0	0	-2.47	-2.46	2	2	0	2100	2100	0
3/6/2025 20:11	66505	SMAN_T2	2	3	1	0.6	1.2	0.6	0	0	0	0	0	0	0	0
3/6/2025 20:11	61701	ELIZ_T1	1	1	0	4.5	5.2	0.7	0	0	0	0	0	0	0	0
3/6/2025 20:11	67401	WAKE_T2	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
3/6/2025 20:11	66502	SMAN_T2	0	0	0	0	0	0	-0.37	-0.53	0	0	0	0	0	0
3/6/2025 20:11	51904	COPA_T1	1	5	4	0.1	0.24	0.14	-2.04	-2.02	4	4	0	2400	2400	0
3/6/2025 20:12	61703	ELIZ_T1	0	0	0	0	0	0	-2.47	-2.46	2	2	0	2100	2100	0
3/6/2025 20:12	66504	SMAN_T2	0	0	0	0	0	0	-0.46	-0.4	0	0	0	0	0	0
3/6/2025 20:12	64901	MILL_T1	40	46	6	0.17	0.23	0.06	0	0	0	0	0	0	0	0
3/6/2025 20:12	61701	ELIZ_T1	1	1	0	4.5	5.2	0.7	0	0	0	0	0	0	0	0
3/6/2025 20:12	60701	BREC_T1	0	1	1	0	0	0	-0.54	-0.56	2	2	0	1200	1200	0
3/6/2025 20:12	64904	MILL_T1	1	3	2	0.1	0.15	0.05	-0.37	-0.35	0	0	0	0	0	0
3/6/2025 20:12	66505	SMAN_T2	2	3	1	0.6	1.2	0.6	0	0	0	0	0	0	0	0
3/6/2025 20:12	66502	SMAN_T2	0	0	0	0	0	0	-0.18	-0.27	0	0	0	0	0	0
3/6/2025 20:12	58401	MORO_T1	0	0	0	0	0	0	-1.03	-1.06	1	1	0	600	600	0
3/6/2025 20:12	67402	WAKE_T2	0	0	0	0	0	0	-0.31	-0.31	1	1	0	600	600	0
3/6/2025 20:12	67401	WAKE_T2	0	0	0	0	0	0	-1.15	-1.15	0	0	0	0	0	0
3/6/2025 20:12	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:13	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:13	51101	CARL_T1	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
3/6/2025 20:13	20403	ASHF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:13	51102	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:13	66505	SMAN_T2	2	3	1	0.6	1.2	0.6	0	0	0	0	0	0	0	0
3/6/2025 20:13	60701	BREC_T1	0	1	1	0	0	0	-0.54	-0.56	2	2	0	1200	1200	0
3/6/2025 20:13	65502	MOJO_T2	0	0	0	0	0	0	-0.92	-0.98	0	0	0	0	0	0
3/6/2025 20:13	51107	CARL_T1	5	5	0	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
3/6/2025 20:13	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:13	17002	BIRO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:14	67402	WAKE_T2	0	0	0	0	0	0	-0.31	-0.31	1	1	0	600	600	0
3/6/2025 20:14	51604	DUKE_T2	0	0	0	0	0	0	-1.57	-1.59	1	1	0	900	900	0
3/6/2025 20:14	66504	SMAN_T2	0	0	0	0	0	0	-0.46	-0.4	0	0	0	0	0	0
3/6/2025 20:14	40603	PIGR_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:14	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:14	57403	SPAN_T1	2	0	-2	0.45	0	-0.45	0	0	0	0	0	0	0	0
3/6/2025 20:14	58401	MORO_T1	0	0	0	0	0	0	-1.03	-1.06	1	1	0	600	600	0
3/6/2025 20:14	61701	ELIZ_T1	1	1	0	4.5	5.2	0.7	0	0	0	0	0	0	0	0
3/6/2025 20:14	40602	PIGR_T1	0	0	0	0	0	0	-1.22	-1.22	1	1	0	600	600	0
3/6/2025 20:14	66505	SMAN_T2	2	3	1	0.6	1.2	0.6	0	0	0	0	0	0	0	0
3/6/2025 20:14	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:15	61304	EARL_T1	24	55	31	0.18	0.23	0.05	0	0	0	0	0	0	0	0
3/6/2025 20:15	61301	EARL_T1	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
3/6/2025 20:15	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:15	58401	MORO_T1	0	0	0	0	0	0	-1.03	-1.06	1	1	0	600	600	0
3/6/2025 20:17	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 20:17	58401	MORO_T1	0	0	0	0	0	0	-1.03	-1.06	1	1	0	600	600	0
3/6/2025 20:20	17802	GILB_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
3/6/2025 20:22	50623	CCTY_T2	6	6	0	6.27	6.25	-0.02	0	0	0	0	0	0	0	0
3/6/2025 20:22	50625	CCTY_T2	5	5	0	4.24	4.28	0.04	0	0	1	1	0	1200	1200	0
3/6/2025 20:22	50624	CCTY_T2	2	2	0	6.35	6.35	0	0	0	0	0	0	0	0	0
3/6/2025 20:29	66505	SMAN_T2	3	3	0	0.53	1.2	0.67	0	0	0	0	0	0	0	0
3/6/2025 20:29	66504	SMAN_T2	0	0	0	0	0	0	-0.4	-0.48	0	0	0	0	0	0
3/6/2025 20:31	51906	COPA_T1	0	0	0	0	0	0	-1.06	-1.05	2	2	0	1500	1500	0
3/6/2025 20:31	51904	COPA_T1	4	3	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
3/6/2025 20:33	54601	SUMM_T2	0	0	0	0	0	0	-1.72	-1.71	2	2	0	2100	2100	0
3/6/2025 20:35	45902	AUBU_T1	2	2	0	0.7	0.2	-0.5	0	0	1	1	0	600	600	0
3/6/2025 20:36	44801	EDAN_T2	1	1	0	0.5	0.4	-0.1	-0.4	-0.4	0	0	0	0	0	0
3/6/2025 20:46	42503	ALTA_T2	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
3/6/2025 20:55	65206	PRIN_T4	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
3/6/2025 20:55	65207	PRIN_T4	5	4	-1	1.98	2.3	0.32	0	0	0	0	0	0	0	0
3/6/2025 21:19	61002	DONV_T2	0	0	0	0	0	0	-0.84	-0.86	1	1	0	600	600	0
3/6/2025 21:24	62102	ELAN_T1	0	0	0	0	0	0	0.69	0.65	0	0	0	0	0	0
3/6/2025 21:24	62105	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 21:24	62103	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 21:24	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/6/2025 21:42	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/6/2025 21:42	52204	DEVO_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/6/2025 21:55	44301	BEAV_T2	0	0	0	0	0	0	0.12	0.12	1	1	0	600	600	0
3/6/2025 22:36	60701	BREC_T1	0	0	0	0	0	0	0.34	0.34	1	1	0	600	600	0
3/7/2025 0:03	61002	DONV_T2	0	0	0	0	0	0	-0.86	-0.88	1	1	0	600	600	0
3/7/2025 1:47	44903	SCOT_T1	0	0	0	0	0	0	-0.95	-0.98	0	0	0	0	0	0
3/7/2025 6:55	67001	STHI_T2	2	1	-1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/7/2025 6:55	67002	STHI_T2	0	0	0	0	0	0	0.63	0.58	0	0	0	0	0	0
3/7/2025 6:58	61304	EARL_T1	1	55	54	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/7/2025 6:58	61301	EARL_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
3/7/2025 7:02	53502	EVIL_T2	1	1	0	1.5	1.9	0.4	0	0	0	0	0	0	0	0
3/7/2025 7:02	53501	EVIL_T2	1	2	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/7/2025 7:05	23401	HONE_T2	119	17	-102	0.46	0.52	0.06	-0.05	-0.08	0	0	0	0	0	0
3/7/2025 7:06	67001	STHI_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/7/2025 7:06	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 7:09	44902	SCOT_T2	0	0	0	0	0	0	-0.92	-0.92	0	0	0	0	0	0
3/7/2025 7:15	40504	CRES_T1	4	11	7	0.1	0.1	0	-1.85	-1.81	0	0	0	0	0	0
3/7/2025 7:15	66903	SHIL_T2	0	0	0	0	0	0	-1.19	-1.22	0	0	0	0	0	0
3/7/2025 7:17	40505	CRES_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
3/7/2025 7:17	40504	CRES_T1	4	11	7	0.1	0.1	0	0	0	0	0	0	0	0	0
3/7/2025 7:17	66903	SHIL_T2	0	0	0	0	0	0	-1.57	-1.64	1	1	0	1200	1200	0
3/7/2025 7:19	55002	NEWP_T1	3	5	2	0.4	0.66	0.26	-0.16	-0.18	0	0	0	0	0	0
3/7/2025 7:21	44902	SCOT_T2	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
3/7/2025 7:21	67001	STHI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/7/2025 7:21	67002	STHI_T2	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
3/7/2025 7:22	67001	STHI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/7/2025 7:22	67002	STHI_T2	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
3/7/2025 7:24	67605	WARW_T1	0	2	2	0	0.35	0.35	-0.92	-0.76	0	0	0	0	0	0
3/7/2025 7:25	44301	BEAV_T2	1	2	1	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
3/7/2025 7:25	44901	SCOT_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
3/7/2025 7:28	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 7:28	45501	DERR_T2	0	0	0	0	0	0	0.19	0.18	2	2	0	1800	1800	0
3/7/2025 7:31	40501	CRES_T2	11	11	0	0.32	0.32	0	0	0	0	0	0	0	0	0
3/7/2025 7:31	40502	CRES_T2	0	17	17	0	0.32	0.32	0.08	0.18	0	0	0	0	0	0
3/7/2025 7:32	40501	CRES_T2	11	11	0	0.32	0.32	0	0	0	0	0	0	0	0	0
3/7/2025 7:32	52402	GRPA_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/7/2025 7:32	40502	CRES_T2	0	17	17	0	0.32	0.32	0.08	0.18	0	0	0	0	0	0
3/7/2025 7:32	52403	GRPA_T2	3	7	4	0.33	0.2	-0.13	-0.84	-0.9	0	0	0	0	0	0
3/7/2025 7:34	23402	HONE_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 7:34	23401	HONE_T2	6	12	6	0.63	0.67	0.04	0	0.02	0	0	0	0	0	0
3/7/2025 7:36	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 7:47	40502	CRES_T2	17	11	-6	0.32	0.21	-0.11	0.18	0.17	0	0	0	0	0	0
3/7/2025 7:47	40501	CRES_T2	11	12	1	0.31	0.4	0.09	0	0	0	0	0	0	0	0
3/7/2025 7:48	40502	CRES_T2	17	11	-6	0.32	0.21	-0.11	0.18	0.17	0	0	0	0	0	0
3/7/2025 7:48	40501	CRES_T2	11	12	1	0.31	0.4	0.09	0	0	0	0	0	0	0	0
3/7/2025 7:49	52403	GRPA_T2	6	7	1	0.2	0.31	0.11	0	0	0	0	0	0	0	0
3/7/2025 7:49	52402	GRPA_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
3/7/2025 7:49	52401	GRPA_T2	0	0	0	0	0	0	-0.83	-0.88	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/7/2025 7:50	52502	PROG_T2	0	0	0	0	0	0	-0.46	-0.45	1	1	0	900	900	0
3/7/2025 7:51	52502	PROG_T2	0	0	0	0	0	0	-0.46	-0.45	1	1	0	900	900	0
3/7/2025 7:51	55002	NEWP_T1	5	9	4	0.66	1	0.34	0	0	0	0	0	0	0	0
3/7/2025 7:51	55001	NEWP_T1	0	0	0	0	0	0	-0.96	-0.94	1	1	0	600	600	0
3/7/2025 7:53	51202	MTON_T2	0	0	0	0	0	0	-1	-1.01	1	1	0	1200	1200	0
3/7/2025 7:59	53502	EVIL_T2	1	1	0	3.3	1.9	-1.4	0	0	0	0	0	0	0	0
3/7/2025 7:59	53501	EVIL_T2	1	3	2	0.1	0.5	0.4	0	0	0	0	0	0	0	0
3/7/2025 7:59	41801	GOCI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/7/2025 8:02	41801	GOCI_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/7/2025 8:02	63501	HEID_TBK1-2	0	3	3	0	0.23	0.23	-0.08	-0.08	1	1	0	900	900	0
3/7/2025 8:03	63501	HEID_TBK1-2	0	3	3	0	0.23	0.23	-0.15	-0.16	2	2	0	1800	1800	0
3/7/2025 8:06	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 8:08	44901	SCOT_T2	0	35	35	0	0.24	0.24	0.06	0.05	0	0	0	0	0	0
3/7/2025 8:08	44902	SCOT_T2	0	260	260	0	0.18	0.18	0	0	0	0	0	0	0	0
3/7/2025 8:13	53502	EVIL_T2	1	8	7	2.6	1.3	-1.3	0	0	0	0	0	0	0	0
3/7/2025 8:13	53501	EVIL_T2	2	3	1	0.4	0.55	0.15	-0.51	-0.59	1	1	0	600	600	0
3/7/2025 8:15	40703	FFLD_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/7/2025 8:15	40702	FFLD_T1	2	2	0	0.15	0.2	0.05	-1.33	-1.24	1	1	0	1200	1200	0
3/7/2025 8:15	40701	FFLD_T1	18	18	0	0.18	0.23	0.05	0	0	0	0	0	0	0	0
3/7/2025 8:19	55002	NEWP_T1	9	8	-1	1	1.43	0.43	-0.2	-0.18	0	0	0	0	0	0
3/7/2025 8:22	55002	NEWP_T1	9	8	-1	1	1.43	0.43	-0.36	-0.38	0	0	0	0	0	0
3/7/2025 8:24	57101	SPHI_T2	6	6	0	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
3/7/2025 8:24	57106	SPHI_T2	3	3	0	1.87	1.97	0.1	0	0	0	0	0	0	0	0
3/7/2025 8:24	57103	SPHI_T2	0	0	0	0	0	0	-0.91	-0.91	1	1	0	600	600	0
3/7/2025 8:26	57106	SPHI_T2	3	3	0	1.87	1.97	0.1	0	0	0	0	0	0	0	0
3/7/2025 8:26	57101	SPHI_T2	6	6	0	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
3/7/2025 8:26	57104	SPHI_T2	0	0	0	0	0	0	-1.77	-1.77	1	1	0	900	900	0
3/7/2025 8:27	67605	WARW_T1	1	3	2	0.1	0.33	0.23	-0.86	-0.87	0	0	0	0	0	0
3/7/2025 8:28	46204	DANV_T2	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
3/7/2025 8:28	46203	DANV_T2	82	102	20	0.42	0.51	0.09	-0.85	-0.89	0	0	0	0	0	0
3/7/2025 8:28	46206	DANV_T2	3	3	0	0.97	0.35	-0.62	0	0	0	0	0	0	0	0
3/7/2025 8:29	46204	DANV_T2	2	1	-1	0.45	0	-0.45	0	0	0	0	0	0	0	0
3/7/2025 8:29	46206	DANV_T2	3	3	0	0.97	0.35	-0.62	0	0	0	0	0	0	0	0
3/7/2025 8:29	46203	DANV_T2	82	102	20	0.42	0.51	0.09	-0.85	-0.89	0	0	0	0	0	0
3/7/2025 8:35	40501	CRES_T2	7	3	-4	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
3/7/2025 8:36	64904	MILL_T1	4	8	4	0.13	0.21	0.08	-0.43	-0.42	0	0	0	0	0	0
3/7/2025 8:36	64901	MILL_T1	18	32	14	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
3/7/2025 8:39	44301	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 8:40	14602	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 8:40	14601	SWHI_T1	0	0	0	0	0	0	-1.6	-1.6	0	0	0	0	0	0
3/7/2025 8:40	14603	SWHI_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/7/2025 8:44	62607	ENGL_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/7/2025 8:44	62604	ENGL_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/7/2025 8:44	62605	ENGL_T1	1	2	1	0.4	0.3	-0.1	-1.72	-1.72	0	0	0	0	0	0
3/7/2025 8:44	62606	ENGL_T1	93	99	6	0.21	0.21	0	0	0	0	0	0	0	0	0
3/7/2025 8:45	62604	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/7/2025 8:45	62605	ENGL_T1	2	2	0	0.3	0.45	0.15	-0.86	-0.86	0	0	0	0	0	0
3/7/2025 8:45	40701	FFLD_T1	16	10	-6	0.22	0.17	-0.05	0	0	0	0	0	0	0	0
3/7/2025 8:45	62606	ENGL_T1	99	81	-18	0.21	0.15	-0.06	0	0	0	0	0	0	0	0
3/7/2025 8:45	40702	FFLD_T1	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/7/2025 8:45	62607	ENGL_T1	1	2	1	0.4	0.3	-0.1	-1.09	-0.75	1	0	-1	300	0	-300
3/7/2025 8:45	40703	FFLD_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/7/2025 8:45	63501	HEID_TBK1-2	2	91	89	0.2	0.25	0.05	-0.21	-0.36	3	3	0	2700	2700	0
3/7/2025 8:46	62604	ENGL_T1	1	0	-1	0.1	0	-0.1	-0.32	-0.36	0	0	0	0	0	0
3/7/2025 8:46	62606	ENGL_T1	99	81	-18	0.21	0.15	-0.06	0	0	0	0	0	0	0	0
3/7/2025 8:46	62605	ENGL_T1	2	2	0	0.3	0.45	0.15	-0.86	-0.86	0	0	0	0	0	0
3/7/2025 8:46	62607	ENGL_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/7/2025 8:47	21203	ECAR_T1	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
3/7/2025 8:48	46801	HEPB_T2	2	3	1	0.45	0.57	0.12	0	0	0	0	0	0	0	0
3/7/2025 8:48	46803	HEPB_T2	0	2	2	0	0.1	0.1	0.52	0.51	0	0	0	0	0	0
3/7/2025 8:49	63501	HEID_TBK1-2	2	91	89	0.2	0.25	0.05	-0.07	-0.12	1	1	0	900	900	0
3/7/2025 8:50	41901	REED_T1	3	7	4	0.17	0.21	0.04	0	0	0	0	0	0	0	0
3/7/2025 8:50	41902	REED_T1	0	5	5	0	0	0	1.19	1.2	0	0	0	0	0	0
3/7/2025 8:51	41901	REED_T1	3	7	4	0.17	0.21	0.04	0	0	0	0	0	0	0	0
3/7/2025 8:51	55001	NEWP_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/7/2025 8:51	41902	REED_T1	0	5	5	0	0	0	1.2	1.15	0	0	0	0	0	0
3/7/2025 8:51	55002	NEWP_T1	8	14	6	1.25	1.14	-0.11	-0.19	-0.18	0	0	0	0	0	0
3/7/2025 8:52	40601	PIGR_T1	4	18	14	0.13	0.25	0.12	-0.09	-0.08	0	0	0	0	0	0
3/7/2025 8:53	57104	SPHI_T2	1	2	1	9.8	4.15	-5.65	0	0	0	0	0	0	0	0
3/7/2025 8:53	41902	REED_T1	0	5	5	0	0	0	1.2	1.15	0	0	0	0	0	0
3/7/2025 8:53	44901	SCOT_T2	99	141	42	0.31	0.46	0.15	0	0	0	0	0	0	0	0
3/7/2025 8:53	57106	SPHI_T2	3	3	0	1.77	1.9	0.13	0	0	0	0	0	0	0	0
3/7/2025 8:53	44902	SCOT_T2	397	398	1	0.28	0.29	0.01	-0.91	-0.91	0	0	0	0	0	0
3/7/2025 8:53	41901	REED_T1	3	7	4	0.17	0.21	0.04	0	0	0	0	0	0	0	0
3/7/2025 8:53	57103	SPHI_T2	0	0	0	0	0	0	-0.93	-0.93	1	1	0	600	600	0
3/7/2025 8:53	57101	SPHI_T2	4	6	2	0.25	1.03	0.78	0	0	0	0	0	0	0	0
3/7/2025 8:53	57102	SPHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 8:53	58302	NOTT_T1	0	0	0	0	0	0	-1.33	-1.25	2	2	0	2100	2100	0
3/7/2025 8:54	41901	REED_T1	3	7	4	0.17	0.21	0.04	0	0	0	0	0	0	0	0
3/7/2025 8:54	41902	REED_T1	0	5	5	0	0	0	1.2	1.15	0	0	0	0	0	0
3/7/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
3/7/2025 9:00	63801	HEMP_T1	2	4	2	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/7/2025 9:00	53901	HALI_T2	1	1	0	1.1	0.8	-0.3	-1.46	-0.97	0	0	0	0	0	0
3/7/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0
3/7/2025 9:00	52402	GRPA_T2	7	9	2	0.63	0.8	0.17	0	0	0	0	0	0	0	0
3/7/2025 9:00	52401	GRPA_T2	0	2	2	0	0.45	0.45	-0.73	-0.74	0	0	0	0	0	0
3/7/2025 9:00	41901	REED_T1	5	7	2	0.16	0.21	0.05	0	0	0	0	0	0	0	0
3/7/2025 9:00	52403	GRPA_T2	19	22	3	0.43	0.63	0.2	-0.45	-0.43	0	0	0	0	0	0
3/7/2025 9:00	63804	HEMP_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 9:00	15603	NSTR_T2	0	0	0	0	0	0	-1.2	-0.51	0	0	0	0	0	0
3/7/2025 9:00	63803	HEMP_T1	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/7/2025 9:00	53902	HALI_T2	1	2	1	5.9	3.1	-2.8	0	0	0	0	0	0	0	0
3/7/2025 9:00	57205	ROSS_T1	1	1	0	0.1	1	0.9	0.18	0.18	0	0	0	0	0	0
3/7/2025 9:00	63802	HEMP_T1	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/7/2025 9:00	41902	REED_T1	5	0	-5	0.68	0	-0.68	1.2	1.15	0	0	0	0	0	0
3/7/2025 9:00	58401	MORO_T1	0	1	1	0	0.1	0.1	-2	-1.82	2	2	0	1200	1200	0
3/7/2025 9:00	67502	WEWI_T2	4	2	-2	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/7/2025 9:00	57401	SPAN_T1	0	4	4	0	0.25	0.25	-0.89	-1	1	1	0	600	600	0
3/7/2025 9:00	53903	HALI_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
3/7/2025 9:03	52402	GRPA_T2	7	9	2	0.63	0.8	0.17	0	0	0	0	0	0	0	0
3/7/2025 9:03	52401	GRPA_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
3/7/2025 9:03	52403	GRPA_T2	19	22	3	0.43	0.63	0.2	0	0	0	0	0	0	0	0
3/7/2025 9:04	52401	GRPA_T2	0	2	2	0	0.45	0.45	-0.73	-0.74	0	0	0	0	0	0
3/7/2025 9:04	53801	MBRG_T2	1	2	1	0.1	0.2	0.1	-1.89	-1.93	0	0	0	0	0	0
3/7/2025 9:04	52403	GRPA_T2	19	22	3	0.43	0.63	0.2	0	0	0	0	0	0	0	0
3/7/2025 9:04	52402	GRPA_T2	7	9	2	0.63	0.8	0.17	0	0	0	0	0	0	0	0
3/7/2025 9:05	52403	GRPA_T2	19	22	3	0.43	0.63	0.2	-0.45	-0.43	0	0	0	0	0	0
3/7/2025 9:05	52401	GRPA_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
3/7/2025 9:05	52402	GRPA_T2	7	9	2	0.63	0.8	0.17	0	0	0	0	0	0	0	0
3/7/2025 9:06	52403	GRPA_T2	19	22	3	0.43	0.63	0.2	-0.45	-0.43	0	0	0	0	0	0
3/7/2025 9:06	52402	GRPA_T2	7	9	2	0.63	0.8	0.17	0	0	0	0	0	0	0	0
3/7/2025 9:06	47401	PENS_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/7/2025 9:06	52401	GRPA_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
3/7/2025 9:06	47403	PENS_T1	1	1	0	2.1	2.2	0.1	0	0	0	0	0	0	0	0
3/7/2025 9:07	58401	MORO_T1	0	1	1	0	0.1	0.1	-0.91	-0.88	1	1	0	600	600	0
3/7/2025 9:09	52502	PROG_T2	1	4	3	0.4	0.25	-0.15	-0.53	-0.53	1	1	0	900	900	0
3/7/2025 9:09	58302	NOTT_T1	0	0	0	0	0	0	-1.25	-1.15	2	2	0	2100	2100	0
3/7/2025 9:09	67601	WARW_T2	0	0	0	0	0	0	-0.48	-0.54	0	0	0	0	0	0
3/7/2025 9:09	43801	SWIL_T1	1	2	1	4.9	2.55	-2.35	0	0	0	0	0	0	0	0
3/7/2025 9:09	43802	SWIL_T1	0	0	0	0	0	0	-0.16	-0.17	1	1	0	600	600	0
3/7/2025 9:09	67605	WARW_T1	5	48	43	0.3	0.5	0.2	-0.95	-1.04	0	0	0	0	0	0
3/7/2025 9:09	67602	WARW_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 9:10	54203	PENN_T1	20	24	4	1.11	1.09	-0.02	0	0	0	0	0	0	0	0
3/7/2025 9:10	54201	PENN_T1	11	11	0	0.66	0.89	0.23	-0.06	-0.1	0	0	0	0	0	0
3/7/2025 9:10	52502	PROG_T2	1	4	3	0.4	0.25	-0.15	-0.53	-0.53	1	1	0	900	900	0
3/7/2025 9:10	14102	TRUM_T2	1	2	1	0.9	1.3	0.4	0	0	0	0	0	0	0	0
3/7/2025 9:10	14103	TRUM_T2	2	4	2	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
3/7/2025 9:11	67603	WARW_T1	0	0	0	0	0	0	0.11	0.06	0	0	0	0	0	0
3/7/2025 9:11	67605	WARW_T1	5	48	43	0.3	0.5	0.2	-0.95	-1.04	0	0	0	0	0	0
3/7/2025 9:12	67605	WARW_T1	5	48	43	0.3	0.5	0.2	-0.95	-1.04	0	0	0	0	0	0
3/7/2025 9:13	21203	ECAR_T1	0	0	0	0	0	0	-0.26	-0.23	0	0	0	0	0	0
3/7/2025 9:14	16102	BING_T2	2	3	1	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
3/7/2025 9:14	63305	GREE_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/7/2025 9:14	16103	BING_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/7/2025 9:14	63302	GREE_T1	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
3/7/2025 9:15	40502	CRES_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/7/2025 9:15	40501	CRES_T2	5	9	4	0.28	0.33	0.05	0	0	0	0	0	0	0	0
3/7/2025 9:16	46506	LOHA_T1	3	3	0	2.2	2.57	0.37	0	0	0	0	0	0	0	0
3/7/2025 9:16	40501	CRES_T2	5	9	4	0.28	0.33	0.05	0	0	0	0	0	0	0	0
3/7/2025 9:16	41801	GOCI_T2	37	20	-17	0.19	0.31	0.12	0	0	0	0	0	0	0	0
3/7/2025 9:16	63501	HEID_TBK1-2	89	51	-38	0.25	0.29	0.04	-0.09	-0.22	1	1	0	900	900	0
3/7/2025 9:16	40502	CRES_T2	0	1	1	0	0.4	0.4	0.34	0.36	0	0	0	0	0	0
3/7/2025 9:16	64202	KINZ_T1	2	3	1	0.3	0.43	0.13	0	0	0	0	0	0	0	0
3/7/2025 9:16	46501	LOHA_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/7/2025 9:16	64204	KINZ_T1	3	3	0	0.7	0.73	0.03	0	0	0	0	0	0	0	0
3/7/2025 9:16	46502	LOHA_T1	0	0	0	0	0	0	-2.74	-2.76	2	2	0	2400	2400	0
3/7/2025 9:16	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 9:16	46504	LOHA_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/7/2025 9:16	23401	HONE_T2	3	3	0	0.2	0	-0.2	-0.05	-0.02	0	0	0	0	0	0
3/7/2025 9:17	61506	EPET_T2	0	0	0	0	0	0	-0.74	-0.69	1	1	0	900	900	0
3/7/2025 9:17	46102	MACI_T1	0	0	0	0	0	0	0.66	0.65	0	0	0	0	0	0
3/7/2025 9:17	63501	HEID_TBK1-2	89	51	-38	0.25	0.29	0.04	-0.27	-0.67	3	3	0	2700	2700	0
3/7/2025 9:18	41801	GOCI_T2	37	20	-17	0.19	0.31	0.12	0	0	0	0	0	0	0	0
3/7/2025 9:18	22602	KIMB_T1	1	1	0	0.4	0.4	0	0.13	0.13	0	0	0	0	0	0
3/7/2025 9:19	63501	HEID_TBK1-2	89	51	-38	0.25	0.29	0.04	-0.09	-0.22	1	1	0	900	900	0
3/7/2025 9:20	65202	PRIN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/7/2025 9:20	41901	REED_T1	7	5	-2	0.21	0.16	-0.05	0	0	0	0	0	0	0	0
3/7/2025 9:20	41902	REED_T1	0	0	0	0	0	0	1.15	1.23	0	0	0	0	0	0
3/7/2025 9:20	13303	ORVI_T1	2	2	0	0.1	0.15	0.05	0.96	0.94	0	0	0	0	0	0
3/7/2025 9:20	65205	PRIN_T1	2	2	0	3.85	0.6	-3.25	0	0	0	0	0	0	0	0
3/7/2025 9:21	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 9:21	64902	MILL_T2	0	0	0	0	0	0	-0.7	-0.67	1	1	0	900	900	0
3/7/2025 9:21	43801	SWIL_T1	2	2	0	2.55	2.45	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/7/2025 9:22	54201	PENN_T1	11	11	0	0.78	0.94	0.16	0	0	0	0	0	0	0	0
3/7/2025 9:22	54203	PENN_T1	20	24	4	1.17	1.14	-0.03	-0.01	-0.02	0	0	0	0	0	0
3/7/2025 9:22	41901	REED_T1	7	5	-2	0.21	0.16	-0.05	0	0	0	0	0	0	0	0
3/7/2025 9:22	41902	REED_T1	0	0	0	0	0	0	1.23	1.21	0	0	0	0	0	0
3/7/2025 9:23	52502	PROG_T2	3	4	1	0.27	0.3	0.03	0	0	0	0	0	0	0	0
3/7/2025 9:23	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 9:23	67605	WARW_T1	12	50	38	0.4	0.49	0.09	-1.04	-0.93	0	0	0	0	0	0
3/7/2025 9:24	14801	TREI_T2	2	3	1	0.1	0.33	0.23	0.54	0.5	0	0	0	0	0	0
3/7/2025 9:24	67603	WARW_T1	0	0	0	0	0	0	0.06	0.1	0	0	0	0	0	0
3/7/2025 9:24	41902	REED_T1	0	0	0	0	0	0	1.23	1.21	0	0	0	0	0	0
3/7/2025 9:24	41901	REED_T1	7	5	-2	0.21	0.16	-0.05	0	0	0	0	0	0	0	0
3/7/2025 9:24	52502	PROG_T2	3	4	1	0.27	0.3	0.03	-0.53	-0.52	1	1	0	900	900	0
3/7/2025 9:24	67605	WARW_T1	12	50	38	0.4	0.49	0.09	-2.09	-1.87	0	0	0	0	0	0
3/7/2025 9:25	43802	SWIL_T1	0	0	0	0	0	0	-0.17	-0.15	1	1	0	600	600	0
3/7/2025 9:25	43801	SWIL_T1	2	2	0	2.55	2.45	-0.1	0	0	0	0	0	0	0	0
3/7/2025 9:26	54203	PENN_T1	20	24	4	1.17	1.14	-0.03	0	0	0	0	0	0	0	0
3/7/2025 9:26	67605	WARW_T1	12	50	38	0.4	0.49	0.09	-1.04	-0.93	0	0	0	0	0	0
3/7/2025 9:26	67303	WYOM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 9:26	54201	PENN_T1	11	11	0	0.78	0.94	0.16	-0.05	0	0	0	0	0	0	0
3/7/2025 9:26	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 9:27	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 9:28	53502	EVIL_T2	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
3/7/2025 9:28	10805	CHHI_T2	5	6	1	1.56	1.52	-0.04	-1.78	-1.8	1	1	0	1200	1200	0
3/7/2025 9:28	53501	EVIL_T2	2	3	1	1.2	0.75	-0.45	-0.38	-0.38	1	1	0	600	600	0
3/7/2025 9:29	61306	EARL_T1	5	2	-3	0.14	0.2	0.06	0	0	0	0	0	0	0	0
3/7/2025 9:29	61301	EARL_T1	0	0	0	0	0	0	0.29	0.34	0	0	0	0	0	0
3/7/2025 9:29	54502	ENOL_T2	1	1	0	0.6	0.6	0	-2.07	-1.41	1	0	-1	600	0	-600
3/7/2025 9:29	54504	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/7/2025 9:29	53501	EVIL_T2	2	3	1	1.2	0.75	-0.45	0	0	0	0	0	0	0	0
3/7/2025 9:29	54505	ENOL_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
3/7/2025 9:29	61304	EARL_T1	26	6	-20	0.15	0.18	0.03	0	0	0	0	0	0	0	0
3/7/2025 9:29	61302	EARL_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/7/2025 9:29	53502	EVIL_T2	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
3/7/2025 9:30	61502	EPET_T1	1	1	0	0.2	0.2	0	-1.14	-1.11	0	0	0	0	0	0
3/7/2025 9:30	61306	EARL_T1	1	3	2	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
3/7/2025 9:30	10801	CHHI_T1	2	4	2	0.4	0.4	0	-2.05	-2.02	3	3	0	2100	2100	0
3/7/2025 9:30	61302	EARL_T1	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
3/7/2025 9:30	61304	EARL_T1	2	6	4	0.3	0.2	-0.1	0	0.05	0	0	0	0	0	0
3/7/2025 9:31	53502	EVIL_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
3/7/2025 9:31	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 9:31	54504	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/7/2025 9:31	53501	EVIL_T2	2	3	1	0.75	0.5	-0.25	-1.15	-1.14	3	3	0	1800	1800	0
3/7/2025 9:31	54505	ENOL_T2	1	2	1	1.3	0.7	-0.6	-0.66	-0.66	1	1	0	600	600	0
3/7/2025 9:31	54502	ENOL_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
3/7/2025 9:31	61306	EARL_T1	1	3	2	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
3/7/2025 9:31	61302	EARL_T1	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
3/7/2025 9:31	61304	EARL_T1	2	6	4	0.3	0.2	-0.1	0	0.1	0	0	0	0	0	0
3/7/2025 9:31	61301	EARL_T1	0	0	0	0	0	0	0.29	0.34	0	0	0	0	0	0
3/7/2025 9:32	61304	EARL_T1	2	6	4	0.3	0.2	-0.1	0	0.05	0	0	0	0	0	0
3/7/2025 9:32	61302	EARL_T1	1	2	1	0.1	0.45	0.35	0.84	0.72	1	1	0	1200	1200	0
3/7/2025 9:32	53502	EVIL_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
3/7/2025 9:32	10801	CHHI_T1	2	4	2	0.4	0.4	0	-2.05	-2.02	3	3	0	2100	2100	0
3/7/2025 9:32	53501	EVIL_T2	2	3	1	0.75	0.5	-0.25	-0.77	-0.76	2	2	0	1200	1200	0
3/7/2025 9:32	61306	EARL_T1	1	3	2	0.2	0.13	-0.07	0.06	0.06	0	0	0	0	0	0
3/7/2025 9:33	50506	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/7/2025 9:33	61304	EARL_T1	2	6	4	0.3	0.2	-0.1	0	0.05	0	0	0	0	0	0
3/7/2025 9:33	50504	MECH_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/7/2025 9:33	50501	MECH_T1	0	2	2	0	0.15	0.15	-0.24	0.03	0	0	0	0	0	0
3/7/2025 9:33	53502	EVIL_T2	1	1	0	1	0	-1	0	0	0	0	0	0	0	0
3/7/2025 9:33	53501	EVIL_T2	2	3	1	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
3/7/2025 9:33	65503	MOJO_T2	0	0	0	0	0	0	-1.66	-1.62	2	2	0	1800	1800	0
3/7/2025 9:33	61306	EARL_T1	1	3	2	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
3/7/2025 9:33	61302	EARL_T1	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
3/7/2025 9:33	50502	MECH_T1	5	5	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/7/2025 9:34	65503	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 9:35	65207	PRIN_T4	4	4	0	2.28	0.65	-1.63	0	0	0	0	0	0	0	0
3/7/2025 9:35	50502	MECH_T1	5	5	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/7/2025 9:35	65206	PRIN_T4	0	2	2	0	1	1	0	0	0	0	0	0	0	0
3/7/2025 9:35	50501	MECH_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/7/2025 9:35	50504	MECH_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/7/2025 9:35	15704	TANN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 9:35	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 9:35	15701	TANN_T1	2	4	2	2.1	1.2	-0.9	0	0	0	0	0	0	0	0
3/7/2025 9:35	50506	MECH_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/7/2025 9:36	46902	MNTG_T2	0	7	7	0	0.13	0.13	0	0	0	0	0	0	0	0
3/7/2025 9:36	46901	MNTG_T2	0	0	0	0	0	0	1.03	0.88	0	0	0	0	0	0
3/7/2025 9:36	54504	ENOL_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/7/2025 9:36	54502	ENOL_T2	1	1	0	0.6	0.2	-0.4	-2.07	-1.41	1	0	-1	600	0	-600
3/7/2025 9:36	54505	ENOL_T2	1	2	1	1.3	0.7	-0.6	0	0	0	0	0	0	0	0
3/7/2025 9:36	46903	MNTG_T2	2	3	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/7/2025 9:36	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 9:38	58201	NEWV_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/7/2025 9:38	65503	MOJO_T2	0	0	0	0	0	0	-0.81	-0.83	1	1	0	900	900	0
3/7/2025 9:41	51305	WIND_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/7/2025 9:41	51303	WIND_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/7/2025 9:41	51301	WIND_T1	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
3/7/2025 9:42	43402	BENT_T1	2	2	0	0.15	0.85	0.7	-1.88	-1.88	2	2	0	1800	1800	0
3/7/2025 9:42	51305	WIND_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/7/2025 9:42	51303	WIND_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/7/2025 9:42	51301	WIND_T1	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
3/7/2025 9:43	54203	PENN_T1	24	25	1	1.08	1.12	0.04	-0.02	-0.01	0	0	0	0	0	0
3/7/2025 9:43	54504	ENOL_T2	1	1	0	0.3	0.2	-0.1	-1.02	-1.02	1	1	0	600	600	0
3/7/2025 9:43	54501	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 9:43	43402	BENT_T1	2	2	0	0.15	0.85	0.7	-0.94	-0.94	1	1	0	900	900	0
3/7/2025 9:43	54201	PENN_T1	11	10	-1	0.88	0.99	0.11	0	0	0	0	0	0	0	0
3/7/2025 9:43	54505	ENOL_T2	1	2	1	1.3	0.7	-0.6	0	0	0	0	0	0	0	0
3/7/2025 9:43	54502	ENOL_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
3/7/2025 9:44	43402	BENT_T1	2	2	0	0.15	0.85	0.7	-0.94	-0.94	1	1	0	900	900	0
3/7/2025 9:46	64204	KINZ_T1	3	2	-1	0.73	0.65	-0.08	0	0	0	0	0	0	0	0
3/7/2025 9:46	64202	KINZ_T1	3	3	0	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
3/7/2025 9:46	64203	KINZ_T1	0	0	0	0	0	0	-0.07	-0.02	2	2	0	1800	1800	0
3/7/2025 9:47	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 9:47	40901	JESH_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
3/7/2025 9:50	52402	GRPA_T2	5	8	3	0.4	0.53	0.13	0	0	0	0	0	0	0	0
3/7/2025 9:50	52401	GRPA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/7/2025 9:50	52403	GRPA_T2	20	26	6	0.71	0.85	0.14	-0.45	-0.46	0	0	0	0	0	0
3/7/2025 9:51	57401	SPAN_T1	6	5	-1	0.33	0.34	0.01	0	0	0	0	0	0	0	0
3/7/2025 9:51	57403	SPAN_T1	1	3	2	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
3/7/2025 9:52	64904	MILL_T1	0	0	0	0	0	0	0	0.56	0	0	0	0	0	0
3/7/2025 9:52	57401	SPAN_T1	6	5	-1	0.33	0.34	0.01	-1.06	-1.1	1	1	0	600	600	0
3/7/2025 9:52	57403	SPAN_T1	1	3	2	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
3/7/2025 9:52	17002	RIRO_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/7/2025 9:53	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
3/7/2025 9:54	57403	SPAN_T1	1	3	2	0.4	0.37	-0.03	0.13	0.11	0	0	0	0	0	0
3/7/2025 9:54	57401	SPAN_T1	6	5	-1	0.33	0.34	0.01	0	0	0	0	0	0	0	0
3/7/2025 9:56	67402	WAKE_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
3/7/2025 9:58	61302	EARL_T1	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/7/2025 9:58	61304	EARL_T1	5	3	-2	0.2	0.37	0.17	0	0	0	0	0	0	0	0
3/7/2025 9:58	61306	EARL_T1	1	4	3	0.2	0.13	-0.07	0.06	0.06	0	0	0	0	0	0
3/7/2025 10:00	52401	GRPA_T2	1	3	2	0.2	0.53	0.33	0	0	0	0	0	0	0	0
3/7/2025 10:00	52402	GRPA_T2	4	12	8	0.43	0.68	0.25	0	0	0	0	0	0	0	0
3/7/2025 10:00	11202	ELHE_T2	0	0	0	0	0	0	0.4	0.41	1	1	0	1200	1200	0
3/7/2025 10:00	52403	GRPA_T2	24	31	7	0.85	0.98	0.13	-0.46	-0.5	0	0	0	0	0	0
3/7/2025 10:01	40502	CRES_T2	1	0	-1	0.3	0	-0.3	0.17	0.17	0	0	0	0	0	0
3/7/2025 10:01	40501	CRES_T2	8	10	2	0.26	0.45	0.19	0	0	0	0	0	0	0	0
3/7/2025 10:02	61304	EARL_T1	3	19	16	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
3/7/2025 10:02	61306	EARL_T1	3	5	2	0.1	0.22	0.12	0.06	0.06	0	0	0	0	0	0
3/7/2025 10:02	61302	EARL_T1	2	3	1	0.3	0.67	0.37	0	0	0	0	0	0	0	0
3/7/2025 10:04	40501	CRES_T2	8	10	2	0.26	0.45	0.19	0	0	0	0	0	0	0	0
3/7/2025 10:04	40502	CRES_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/7/2025 10:04	55002	NEWP_T1	12	13	1	0.86	1.04	0.18	-0.42	-0.42	0	0	0	0	0	0
3/7/2025 10:04	55001	NEWP_T1	2	2	0	0.3	0.35	0.05	-0.38	-0.37	0	0	0	0	0	0
3/7/2025 10:05	55001	NEWP_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/7/2025 10:05	55002	NEWP_T1	12	13	1	0.86	1.04	0.18	-0.21	-0.21	0	0	0	0	0	0
3/7/2025 10:06	55001	NEWP_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/7/2025 10:06	55002	NEWP_T1	12	13	1	0.86	1.04	0.18	-0.21	-0.21	0	0	0	0	0	0
3/7/2025 10:06	57205	ROSS_T1	1	3	2	1.4	0.83	-0.57	0.16	0.2	0	0	0	0	0	0
3/7/2025 10:08	58102	NEKI_T1	2	2	0	0.65	0.75	0.1	0.18	0.18	0	0	0	0	0	0
3/7/2025 10:08	58101	NEKI_T1	2	3	1	0.55	0.73	0.18	0	0	0	0	0	0	0	0
3/7/2025 10:09	55001	NEWP_T1	2	2	0	0.3	0.35	0.05	-0.37	-0.25	0	0	0	0	0	0
3/7/2025 10:09	55002	NEWP_T1	12	13	1	0.86	1.04	0.18	0	0	0	0	0	0	0	0
3/7/2025 10:10	14801	TREI_T2	3	3	0	0.17	0.43	0.26	0.46	0.46	0	0	0	0	0	0
3/7/2025 10:10	14802	TREI_T2	0	2	2	0	0.15	0.15	0.55	0.55	0	0	0	0	0	0
3/7/2025 10:12	14801	TREI_T2	3	3	0	0.17	0.43	0.26	0	0	0	0	0	0	0	0
3/7/2025 10:12	14802	TREI_T2	0	2	2	0	0.15	0.15	0.55	0.55	0	0	0	0	0	0
3/7/2025 10:14	17401	FOHI_T1	0	0	0	0	0	0	-0.95	-0.97	0	0	0	0	0	0
3/7/2025 10:16	47203	FAXO_T2	0	0	0	0	0	0	-0.42	-0.38	0	0	0	0	0	0
3/7/2025 10:20	10602	BLGL_T2	1	19	18	0.8	0.57	-0.23	0.34	0.29	0	0	0	0	0	0
3/7/2025 10:21	41001	LAUR_T2	26	54	28	0.25	0.3	0.05	0	0	0	0	0	0	0	0
3/7/2025 10:21	52401	GRPA_T2	1	3	2	0.5	0.53	0.03	0	0	0	0	0	0	0	0
3/7/2025 10:21	41002	LAUR_T2	8	21	13	0.35	0.27	-0.08	-0.96	-0.95	0	0	0	0	0	0
3/7/2025 10:21	52403	GRPA_T2	24	34	10	0.89	0.96	0.07	-0.99	-0.91	0	0	0	0	0	0
3/7/2025 10:21	52402	GRPA_T2	8	13	5	0.51	0.69	0.18	0	0	0	0	0	0	0	0
3/7/2025 10:24	14802	TREI_T2	1	2	1	0.2	0.15	-0.05	0.55	0.49	0	0	0	0	0	0
3/7/2025 10:24	14801	TREI_T2	3	3	0	0.3	0.43	0.13	0	0	0	0	0	0	0	0
3/7/2025 10:25	41002	LAUR_T2	8	21	13	0.35	0.27	-0.08	0	0	0	0	0	0	0	0
3/7/2025 10:25	41001	LAUR_T2	26	54	28	0.25	0.3	0.05	0	0	0	0	0	0	0	0
3/7/2025 10:26	14801	TREI_T2	3	3	0	0.3	0.43	0.13	0.46	0.46	0	0	0	0	0	0
3/7/2025 10:26	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 10:26	14802	TREI_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/7/2025 10:29	24101	EHAZ_T1	51	47	-4	1.33	0.84	-0.49	0	0	0	0	0	0	0	0
3/7/2025 10:29	24102	EHAZ_T1	11	8	-3	0.68	0.58	-0.1	0.62	0.57	0	0	0	0	0	0
3/7/2025 10:29	24105	EHAZ_T1	4	4	0	6.13	6.15	0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/7/2025 10:30	44802	EDAN_T2	0	1	1	0	0.1	0.1	-6.57	-6.54	0	0	0	0	0	0
3/7/2025 10:30	24102	EHAZ_T1	8	11	3	0.81	0.58	-0.23	0	0	0	0	0	0	0	0
3/7/2025 10:30	44801	EDAN_T2	1	4	3	0.3	0.2	-0.1	-0.37	-0.36	0	0	0	0	0	0
3/7/2025 10:30	10801	CHHI_T1	2	3	1	0.2	0.17	-0.03	-1.47	-1.26	2	2	0	1500	1500	0
3/7/2025 10:30	24104	EHAZ_T1	0	0	0	0	0	0	-2.17	-2.17	1	1	0	1200	1200	0
3/7/2025 10:30	24105	EHAZ_T1	4	4	0	6.2	6.2	0	0	0	0	0	0	0	0	0
3/7/2025 10:30	24101	EHAZ_T1	43	55	12	1.25	0.81	-0.44	0	0	0	0	0	0	0	0
3/7/2025 10:31	44801	EDAN_T2	1	4	3	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/7/2025 10:31	44802	EDAN_T2	0	1	1	0	0.1	0.1	-8.76	-8.72	0	0	0	0	0	0
3/7/2025 10:32	47201	FAXO_T2	0	0	0	0	0	0	-2.24	-2.23	1	1	0	1200	1200	0
3/7/2025 10:32	44802	EDAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 10:32	44801	EDAN_T2	1	4	3	0.3	0.2	-0.1	-0.37	-0.36	0	0	0	0	0	0
3/7/2025 10:32	45801	HEGI_T1	1	1	0	0.2	0.2	0	-0.3	-0.22	1	1	0	900	900	0
3/7/2025 10:34	40902	JESH_T1	0	2	2	0	0.1	0.1	-2.25	-2.36	2	2	0	1200	1200	0
3/7/2025 10:34	40901	JESH_T1	1	2	1	1	0.5	-0.5	0	0	0	0	0	0	0	0
3/7/2025 10:36	52401	GRPA_T2	3	2	-1	0.53	0.55	0.02	0	0	0	0	0	0	0	0
3/7/2025 10:36	52403	GRPA_T2	31	31	0	0.98	0.86	-0.12	0	0	0	0	0	0	0	0
3/7/2025 10:36	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 10:36	41901	REED_T1	7	9	2	0.2	0.21	0.01	0	0	0	0	0	0	0	0
3/7/2025 10:36	52402	GRPA_T2	12	13	1	0.68	0.63	-0.05	0	0	0	0	0	0	0	0
3/7/2025 10:38	65904	SAKR_T2	1	6	5	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/7/2025 10:38	65901	SAKR_T2	2	2	0	5.25	5.5	0.25	-1.15	-1.21	1	1	0	900	900	0
3/7/2025 10:38	65902	SAKR_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
3/7/2025 10:40	51301	WIND_T1	9	9	0	0.38	0.31	-0.07	0	0	0	0	0	0	0	0
3/7/2025 10:40	51303	WIND_T1	2	1	-1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
3/7/2025 10:40	51305	WIND_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/7/2025 10:40	46004	BERW_T2	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
3/7/2025 10:40	67201	TEHI_T1	0	0	0	0	0	0	0.91	0.94	1	1	0	900	900	0
3/7/2025 10:40	16302	ALPA_T2	1	1	0	0.5	0.6	0.1	0.66	0.66	0	0	0	0	0	0
3/7/2025 10:40	46002	BERW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 10:41	51306	WIND_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/7/2025 10:41	51304	WIND_T2	2	0	-2	0.25	0	-0.25	-0.17	0.49	0	0	0	0	0	0
3/7/2025 10:41	51302	WIND_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/7/2025 10:41	46004	BERW_T2	1	1	0	1	1.3	0.3	-0.66	-0.73	0	0	0	0	0	0
3/7/2025 10:42	16302	ALPA_T2	1	1	0	0.5	0.6	0.1	1.32	1.31	0	0	0	0	0	0
3/7/2025 10:43	46004	BERW_T2	1	1	0	1	1.3	0.3	-0.66	-0.73	0	0	0	0	0	0
3/7/2025 10:43	65904	SAKR_T2	1	6	5	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/7/2025 10:43	65902	SAKR_T2	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
3/7/2025 10:43	65901	SAKR_T2	2	2	0	5.25	5.5	0.25	-1.15	-1.21	1	1	0	900	900	0
3/7/2025 10:44	51305	WIND_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/7/2025 10:44	51306	WIND_T2	1	0	-1	0.2	0	-0.2	0.22	0.19	0	0	0	0	0	0
3/7/2025 10:44	51304	WIND_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
3/7/2025 10:44	51302	WIND_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/7/2025 10:44	51303	WIND_T1	2	1	-1	0.25	0.5	0.25	0	0	0	0	0	0	0	0
3/7/2025 10:44	16302	ALPA_T2	1	1	0	0.5	0.6	0.1	0.66	0.66	0	0	0	0	0	0
3/7/2025 10:44	51301	WIND_T1	9	9	0	0.38	0.31	-0.07	0	0	0	0	0	0	0	0
3/7/2025 10:45	24104	EHAZ_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 10:45	24105	EHAZ_T1	4	4	0	6.28	6.15	-0.13	0	0	0	0	0	0	0	0
3/7/2025 10:45	46004	BERW_T2	1	2	1	1.3	0.4	-0.9	-0.66	-0.73	0	0	0	0	0	0
3/7/2025 10:45	24102	EHAZ_T1	6	11	5	0.58	0.98	0.4	0.57	0.59	0	0	0	0	0	0
3/7/2025 10:45	24101	EHAZ_T1	45	58	13	0.82	0.89	0.07	0	0	0	0	0	0	0	0
3/7/2025 10:45	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 10:46	44801	EDAN_T2	1	4	3	0.2	0.55	0.35	0	0	0	0	0	0	0	0
3/7/2025 10:46	44802	EDAN_T2	0	3	3	0	0.23	0.23	-2.18	-2.19	0	0	0	0	0	0
3/7/2025 10:47	44802	EDAN_T2	0	3	3	0	0.23	0.23	-2.18	-2.19	0	0	0	0	0	0
3/7/2025 10:47	52204	DEVO_T2	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
3/7/2025 10:47	44801	EDAN_T2	1	4	3	0.2	0.55	0.35	0	0	0	0	0	0	0	0
3/7/2025 10:47	51306	WIND_T2	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
3/7/2025 10:47	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 10:48	11205	ELHE_T1	0	0	0	0	0	0	-0.82	-0.77	1	1	0	1200	1200	0
3/7/2025 10:48	57403	SPAN_T1	8	13	5	0.34	0.45	0.11	0	0	0	0	0	0	0	0
3/7/2025 10:48	57401	SPAN_T1	11	25	14	0.36	0.5	0.14	-1.09	-1.06	1	1	0	600	600	0
3/7/2025 10:49	57401	SPAN_T1	11	25	14	0.36	0.5	0.14	0	0	0	0	0	0	0	0
3/7/2025 10:49	22602	KIMB_T1	1	2	1	0.3	0.3	0	0.13	0.14	0	0	0	0	0	0
3/7/2025 10:49	57403	SPAN_T1	8	13	5	0.34	0.45	0.11	0.12	0.12	0	0	0	0	0	0
3/7/2025 10:49	22601	KIMB_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 10:50	40901	JESH_T1	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
3/7/2025 10:50	40902	JESH_T1	0	2	2	0	0.1	0.1	-2.36	-2.36	2	2	0	1200	1200	0
3/7/2025 10:51	57401	SPAN_T1	11	25	14	0.36	0.5	0.14	-1.09	-1.06	1	1	0	600	600	0
3/7/2025 10:51	53801	MBRG_T2	4	2	-2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/7/2025 10:51	53803	MBRG_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/7/2025 10:51	53802	MBRG_T2	0	0	0	0	0	0	1.15	1.16	0	0	0	0	0	0
3/7/2025 10:51	64904	MILL_T1	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
3/7/2025 10:51	57403	SPAN_T1	8	13	5	0.34	0.45	0.11	0	0	0	0	0	0	0	0
3/7/2025 10:52	57401	SPAN_T1	11	25	14	0.36	0.5	0.14	-1.06	-1.06	1	1	0	600	600	0
3/7/2025 10:52	57403	SPAN_T1	8	13	5	0.34	0.45	0.11	0	0	0	0	0	0	0	0
3/7/2025 10:53	57403	SPAN_T1	8	13	5	0.34	0.45	0.11	0.12	0.11	0	0	0	0	0	0
3/7/2025 10:53	57401	SPAN_T1	11	25	14	0.36	0.5	0.14	0	0	0	0	0	0	0	0
3/7/2025 10:54	57403	SPAN_T1	8	13	5	0.34	0.45	0.11	0.24	0.22	0	0	0	0	0	0
3/7/2025 10:54	57401	SPAN_T1	11	25	14	0.36	0.5	0.14	0	0	0	0	0	0	0	0
3/7/2025 10:54	67402	WAKE_T2	0	0	0	0	0	0	0.25	0.29	0	0	0	0	0	0
3/7/2025 10:54	67401	WAKE_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
3/7/2025 10:56	67402	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 10:56	67401	WAKE_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
3/7/2025 10:58	61305	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 10:58	61302	EARL_T1	3	4	1	0.4	0.65	0.25	0	0	0	0	0	0	0	0
3/7/2025 10:58	61304	EARL_T1	17	46	29	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
3/7/2025 10:58	16102	BING_T2	6	10	4	0.15	0.27	0.12	0	0	0	0	0	0	0	0
3/7/2025 10:58	61303	EARL_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/7/2025 10:58	16101	BING_T2	3	3	0	0.43	0.57	0.14	0.38	0.38	0	0	0	0	0	0
3/7/2025 10:58	61301	EARL_T1	0	1	1	0	0.1	0.1	0.3	0.3	0	0	0	0	0	0
3/7/2025 10:58	61306	EARL_T1	9	19	10	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/7/2025 10:58	16103	BING_T2	2	3	1	0.8	0.8	0	0	0	0	0	0	0	0	0
3/7/2025 10:59	61302	EARL_T1	3	4	1	0.4	0.65	0.25	0	0	0	0	0	0	0	0
3/7/2025 10:59	61306	EARL_T1	9	19	10	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/7/2025 10:59	61301	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 10:59	61303	EARL_T1	0	2	2	0	0.15	0.15	0.91	0.81	0	0	0	0	0	0
3/7/2025 10:59	61305	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 10:59	61304	EARL_T1	17	46	29	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
3/7/2025 11:00	61301	EARL_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/7/2025 11:00	61306	EARL_T1	11	25	14	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
3/7/2025 11:00	16103	BING_T2	2	4	2	1.05	0.75	-0.3	-1.64	-1.68	1	1	0	900	900	0
3/7/2025 11:00	61303	EARL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/7/2025 11:00	16101	BING_T2	3	3	0	0.4	0.67	0.27	0	0	0	0	0	0	0	0
3/7/2025 11:00	61305	EARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/7/2025 11:00	61304	EARL_T1	37	63	26	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/7/2025 11:00	16102	BING_T2	6	9	3	0.18	0.37	0.19	0	0	0	0	0	0	0	0
3/7/2025 11:00	61302	EARL_T1	3	4	1	0.63	0.73	0.1	0.79	0.74	1	1	0	1200	1200	0
3/7/2025 11:02	46504	LOHA_T1	2	2	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
3/7/2025 11:02	46506	LOHA_T1	3	3	0	3.47	3.4	-0.07	0	0	0	0	0	0	0	0
3/7/2025 11:02	52102	MEIS_T1	2	1	-1	4.5	0.2	-4.3	0	0	1	1	0	450	450	0
3/7/2025 11:02	61306	EARL_T1	11	25	14	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
3/7/2025 11:02	42401	GIMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 11:02	61303	EARL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/7/2025 11:02	52101	MEIS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/7/2025 11:02	46501	LOHA_T1	0	0	0	0	0	0	-0.08	-0.09	1	1	0	1200	1200	0
3/7/2025 11:02	61302	EARL_T1	3	4	1	0.63	0.73	0.1	0	0	0	0	0	0	0	0
3/7/2025 11:02	61301	EARL_T1	1	1	0	0.1	0.1	0	0.3	0.3	0	0	0	0	0	0
3/7/2025 11:02	61304	EARL_T1	37	63	26	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/7/2025 11:02	44802	EDAN_T2	1	4	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/7/2025 11:02	61305	EARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/7/2025 11:02	44801	EDAN_T2	3	5	2	0.2	0.5	0.3	-0.36	-0.37	0	0	0	0	0	0
3/7/2025 11:03	64702	LITI_T2	0	0	0	0	0	0	-0.77	-0.8	0	0	0	0	0	0
3/7/2025 11:03	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 11:06	57205	ROSS_T1	4	4	0	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
3/7/2025 11:06	57201	ROSS_T1	5	6	1	0.2	0.18	-0.02	-0.76	-0.65	0	0	0	0	0	0
3/7/2025 11:06	57203	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/7/2025 11:07	44302	BEAV_T2	2	3	1	0.55	0.67	0.12	0	0	0	0	0	0	0	0
3/7/2025 11:07	57205	ROSS_T1	4	4	0	1.15	1.1	-0.05	0	0	0	0	0	0	0	0
3/7/2025 11:07	44301	BEAV_T2	8	9	1	0.38	0.39	0.01	0.64	0.81	2	2	0	1500	1500	0
3/7/2025 11:07	52403	GRPA_T2	27	26	-1	0.91	0.86	-0.05	0	0	0	0	0	0	0	0
3/7/2025 11:07	52401	GRPA_T2	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
3/7/2025 11:07	52402	GRPA_T2	11	47	36	0.59	0.44	-0.15	0	0	0	0	0	0	0	0
3/7/2025 11:07	52404	GRPA_T2	0	0	0	0	0	0	0.43	0.53	0	0	0	0	0	0
3/7/2025 11:07	57201	ROSS_T1	5	6	1	0.2	0.18	-0.02	-0.65	-0.69	0	0	0	0	0	0
3/7/2025 11:07	57203	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/7/2025 11:07	55002	NEWP_T1	13	14	1	1.01	1.04	0.03	-0.21	-0.18	0	0	0	0	0	0
3/7/2025 11:07	55001	NEWP_T1	2	4	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/7/2025 11:08	52402	GRPA_T2	11	47	36	0.59	0.44	-0.15	0	0	0	0	0	0	0	0
3/7/2025 11:08	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 11:08	52403	GRPA_T2	27	26	-1	0.91	0.86	-0.05	0	0	0	0	0	0	0	0
3/7/2025 11:08	44302	BEAV_T2	2	3	1	0.55	0.67	0.12	0	0	0	0	0	0	0	0
3/7/2025 11:08	52404	GRPA_T2	0	0	0	0	0	0	0.43	0.53	0	0	0	0	0	0
3/7/2025 11:08	52401	GRPA_T2	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
3/7/2025 11:08	14802	TREI_T2	3	2	-1	0.17	0.1	-0.07	0.46	0.43	0	0	0	0	0	0
3/7/2025 11:08	44301	BEAV_T2	8	9	1	0.38	0.39	0.01	0.64	0.81	2	2	0	1500	1500	0
3/7/2025 11:08	14801	TREI_T2	3	4	1	0.4	0.48	0.08	0	0	0	0	0	0	0	0
3/7/2025 11:09	52401	GRPA_T2	2	1	-1	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
3/7/2025 11:09	52402	GRPA_T2	11	47	36	0.59	0.44	-0.15	0	0	0	0	0	0	0	0
3/7/2025 11:09	52403	GRPA_T2	27	26	-1	0.91	0.86	-0.05	-0.56	-0.55	0	0	0	0	0	0
3/7/2025 11:09	67303	WYOM_T2	1	1	0	0.5	0.6	0.1	-0.6	-0.6	0	0	0	0	0	0
3/7/2025 11:10	44301	BEAV_T2	8	9	1	0.38	0.39	0.01	0	0	0	0	0	0	0	0
3/7/2025 11:10	44302	BEAV_T2	2	3	1	0.55	0.67	0.12	0	0	0	0	0	0	0	0
3/7/2025 11:12	14802	TREI_T2	3	2	-1	0.17	0.1	-0.07	0.46	0.43	0	0	0	0	0	0
3/7/2025 11:12	14801	TREI_T2	3	4	1	0.4	0.48	0.08	0	0	0	0	0	0	0	0
3/7/2025 11:19	57404	SPAN_T2	0	0	0	0	0	0	0.23	0.26	1	1	0	1200	1200	0
3/7/2025 11:19	64201	KINZ_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/7/2025 11:19	64204	KINZ_T1	26	67	41	0.58	0.49	-0.09	0	0	0	0	0	0	0	0
3/7/2025 11:19	64203	KINZ_T1	1	1	0	0.2	0.3	0.1	-0.14	-0.09	2	2	0	1800	1800	0
3/7/2025 11:19	53803	MBRG_T2	2	2	0	0.1	0.2	0.1	0.04	0.04	0	0	0	0	0	0
3/7/2025 11:19	57402	SPAN_T2	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
3/7/2025 11:19	53801	MBRG_T2	1	9	8	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
3/7/2025 11:19	64202	KINZ_T1	3	4	1	0.17	0.43	0.26	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/7/2025 11:21	52101	MEIS_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
3/7/2025 11:21	52102	MEIS_T1	0	1	1	0	0.2	0.2	0	0	1	1	0	450	450	0
3/7/2025 11:22	10805	CHHI_T2	5	3	-2	1.56	2.37	0.81	-1.87	-1.75	1	1	0	1200	1200	0
3/7/2025 11:25	47403	PENS_T1	6	7	1	0.33	0.74	0.41	0	0	0	0	0	0	0	0
3/7/2025 11:25	47401	PENS_T1	5	5	0	1.24	1.1	-0.14	0.79	0.77	0	0	0	0	0	0
3/7/2025 11:25	47402	PENS_T1	1	2	1	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
3/7/2025 11:25	63501	HEID_TBK1-2	100	180	80	0.35	0.5	0.15	-0.14	-0.12	1	1	0	900	900	0
3/7/2025 11:26	64702	LITI_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
3/7/2025 11:26	67904	WNHO_T1	0	0	0	0	0	0	-2.15	-2.13	2	2	0	2100	2100	0
3/7/2025 11:31	66502	SMAN_T2	11	17	6	0.35	0.39	0.04	0	0	0	0	0	0	0	0
3/7/2025 11:31	66501	SMAN_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
3/7/2025 11:31	66504	SMAN_T2	4	9	5	0.63	0.43	-0.2	0	0	0	0	0	0	0	0
3/7/2025 11:31	66503	SMAN_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
3/7/2025 11:31	66505	SMAN_T2	0	0	0	0	0	0	0.63	0.66	0	0	0	0	0	0
3/7/2025 11:33	54502	ENOL_T2	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
3/7/2025 11:33	47101	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 11:33	54501	ENOL_T2	5	7	2	0.34	0.49	0.15	0	0	0	0	0	0	0	0
3/7/2025 11:33	54503	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 11:33	54504	ENOL_T2	1	2	1	1.1	0.95	-0.15	0	0	0	0	0	0	0	0
3/7/2025 11:33	47104	MARL_T1	0	0	0	0	0	0	-2.17	-2.09	0	0	0	0	0	0
3/7/2025 11:33	54505	ENOL_T2	2	3	1	0.95	0.97	0.02	-0.66	-0.66	1	1	0	600	600	0
3/7/2025 11:34	67901	WNHO_T2	2	2	0	0.2	0.15	-0.05	1.1	1.16	2	2	0	1800	1800	0
3/7/2025 11:34	54505	ENOL_T2	2	3	1	0.95	0.97	0.02	-0.66	-0.66	1	1	0	600	600	0
3/7/2025 11:34	67503	WEWI_T2	1	6	5	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/7/2025 11:34	46801	HEPB_T2	2	3	1	1.05	0.97	-0.08	0.57	0.6	0	0	0	0	0	0
3/7/2025 11:34	54501	ENOL_T2	5	7	2	0.34	0.49	0.15	0	0	0	0	0	0	0	0
3/7/2025 11:34	54504	ENOL_T2	1	2	1	1.1	0.95	-0.15	0	0	0	0	0	0	0	0
3/7/2025 11:34	46802	HEPB_T1	15	27	12	0.21	0.21	0	-0.26	-0.29	0	0	0	0	0	0
3/7/2025 11:34	20402	ASHF_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/7/2025 11:34	20401	ASHF_T2	6	9	3	0.52	0.37	-0.15	0	0	0	0	0	0	0	0
3/7/2025 11:34	63501	HEID_TBK1-2	125	182	57	0.36	0.5	0.14	-0.14	-0.12	1	1	0	900	900	0
3/7/2025 11:34	20403	ASHF_T2	24	42	18	0.47	0.5	0.03	0.14	0.07	0	0	0	0	0	0
3/7/2025 11:34	54502	ENOL_T2	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
3/7/2025 11:34	67502	WEWI_T2	13	32	19	0.59	0.45	-0.14	0	0	0	0	0	0	0	0
3/7/2025 11:34	45802	HEGI_T2	45	47	2	1.3	1.78	0.48	0	0	0	0	0	0	0	0
3/7/2025 11:34	54503	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 11:34	46803	HEPB_T2	2	4	2	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/7/2025 11:34	15103	UPHA_T2	2	2	0	1.4	1.5	0.1	0.42	0.41	0	0	0	0	0	0
3/7/2025 11:35	66501	SMAN_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
3/7/2025 11:35	66503	SMAN_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
3/7/2025 11:35	52502	PROG_T2	4	5	1	0.45	0.3	-0.15	-0.57	-0.57	1	1	0	900	900	0
3/7/2025 11:35	52503	PROG_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/7/2025 11:35	66504	SMAN_T2	4	9	5	0.63	0.43	-0.2	-0.53	-0.45	0	0	0	0	0	0
3/7/2025 11:35	66502	SMAN_T2	11	17	6	0.35	0.39	0.04	0	0	0	0	0	0	0	0
3/7/2025 11:36	66504	SMAN_T2	4	9	5	0.63	0.43	-0.2	-0.45	-0.55	0	0	0	0	0	0
3/7/2025 11:36	53802	MBRG_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 11:36	53801	MBRG_T2	4	20	16	0.13	0.19	0.06	0	0	0	0	0	0	0	0
3/7/2025 11:36	53803	MBRG_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/7/2025 11:36	66503	SMAN_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
3/7/2025 11:36	66502	SMAN_T2	11	17	6	0.35	0.39	0.04	0	0	0	0	0	0	0	0
3/7/2025 11:36	48302	ORWI_T2	2	2	0	1.5	1.55	0.05	0	0.03	0	0	0	0	0	0
3/7/2025 11:36	46101	MACI_T2	0	0	0	0	0	0	0.21	0.2	1	1	0	1200	1200	0
3/7/2025 11:36	48303	ORWI_T2	1	2	1	0.4	0.65	0.25	0	0	0	0	0	0	0	0
3/7/2025 11:36	66501	SMAN_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
3/7/2025 11:38	61502	EPET_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
3/7/2025 11:38	61505	EPET_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 11:38	41202	KENM_T2	1	1	0	0.9	0.7	-0.2	-0.49	-0.48	0	0	0	0	0	0
3/7/2025 11:38	61803	EELI_T2	0	1	1	0	0.2	0.2	0.95	0.99	0	0	0	0	0	0
3/7/2025 11:38	61801	EELI_T2	16	31	15	0.36	0.33	-0.03	0	0	0	0	0	0	0	0
3/7/2025 11:38	67303	WYOM_T2	1	2	1	0.4	0.45	0.05	-0.59	-0.56	0	0	0	0	0	0
3/7/2025 11:38	61503	EPET_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 11:38	41204	KENM_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/7/2025 11:39	66503	SMAN_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
3/7/2025 11:39	61701	ELIZ_T1	2	2	0	3.55	3.45	-0.1	0.2	0.24	0	0	0	0	0	0
3/7/2025 11:39	66504	SMAN_T2	4	9	5	0.63	0.43	-0.2	-0.45	-0.55	0	0	0	0	0	0
3/7/2025 11:39	66501	SMAN_T2	2	2	0	0.55	0.7	0.15	0	0	0	0	0	0	0	0
3/7/2025 11:39	66502	SMAN_T2	11	17	6	0.35	0.39	0.04	0	0	0	0	0	0	0	0
3/7/2025 11:39	52503	PROG_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/7/2025 11:39	61703	ELIZ_T1	8	12	4	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/7/2025 11:39	47101	MARL_T1	0	1	1	0	0	0	-1.07	-1.05	0	0	0	0	0	0
3/7/2025 11:39	52502	PROG_T2	4	5	1	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
3/7/2025 11:40	18001	ZION_T1	4	6	2	5.03	3.5	-1.53	0	0	0	0	0	0	0	0
3/7/2025 11:40	57205	ROSS_T1	4	5	1	1.1	0.96	-0.14	0	0	0	0	0	0	0	0
3/7/2025 11:40	57201	ROSS_T1	5	6	1	0.2	0.22	0.02	0	0	0	0	0	0	0	0
3/7/2025 11:40	57203	ROSS_T1	0	0	0	0	0	0	-0.26	-0.27	0	0	0	0	0	0
3/7/2025 11:41	63501	HEID_TBK1-2	125	182	57	0.36	0.5	0.14	-0.12	-0.11	1	1	0	900	900	0
3/7/2025 11:42	64201	KINZ_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/7/2025 11:42	64204	KINZ_T1	31	73	42	0.53	0.94	0.41	0	0	0	0	0	0	0	0
3/7/2025 11:42	64203	KINZ_T1	1	1	0	0.2	0.5	0.3	-0.16	-0.07	2	2	0	1800	1800	0
3/7/2025 11:42	64202	KINZ_T1	3	5	2	0.2	0.46	0.26	0	0	0	0	0	0	0	0
3/7/2025 11:43	47802	MOCA_T2	1	1	0	0.5	0.2	-0.3	-0.81	-0.8	0	0	0	0	0	0
3/7/2025 11:43	53801	MBRG_T2	4	20	16	0.13	0.19	0.06	0	0	0	0	0	0	0	0
3/7/2025 11:43	53803	MBRG_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/7/2025 11:43	46602	LACR_T1	2	2	0	0.95	1.2	0.25	-0.62	-0.68	0	0	0	0	0	0
3/7/2025 11:43	53802	MBRG_T2	0	1	1	0	0.1	0.1	1.18	1.07	0	0	0	0	0	0
3/7/2025 11:44	40602	PIGR_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/7/2025 11:44	21204	ECAR_T2	5	5	0	1.53	0.78	-0.75	-0.52	-0.52	0	0	0	0	0	0
3/7/2025 11:44	52503	PROG_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/7/2025 11:44	40603	PIGR_T1	2	2	0	0.3	0.65	0.35	0	0	0	0	0	0	0	0
3/7/2025 11:44	10903	COOP_T2	130	130	0	1.1	0.87	-0.23	0	0	0	0	0	0	0	0
3/7/2025 11:44	20603	GRWO_T2	3	21	18	0.1	0.18	0.08	0.47	0.49	0	0	0	0	0	0
3/7/2025 11:44	21206	ECAR_T2	2	1	-1	3.8	8	4.2	0	0	0	0	0	0	0	0
3/7/2025 11:44	11303	EMMA_T1	7	8	1	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
3/7/2025 11:44	18001	ZION_T1	4	6	2	5.03	3.5	-1.53	0	0	0	0	0	0	0	0
3/7/2025 11:44	10901	COOP_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/7/2025 11:44	52502	PROG_T2	4	5	1	0.45	0.3	-0.15	-0.57	-0.59	1	1	0	900	900	0
3/7/2025 11:44	40601	PIGR_T1	63	126	63	0.29	0.31	0.02	0.04	0.06	0	0	0	0	0	0
3/7/2025 11:44	11302	EMMA_T1	11	14	3	0.39	0.3	-0.09	0	0	0	0	0	0	0	0
3/7/2025 11:45	63802	HEMP_T1	2	2	0	0.15	0.2	0.05	0.2	0.16	0	0	0	0	0	0
3/7/2025 11:45	63803	HEMP_T1	1	5	4	0.8	0.34	-0.46	0	0	0	0	0	0	0	0
3/7/2025 11:45	63804	HEMP_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
3/7/2025 11:45	63801	HEMP_T1	2	5	3	0.6	0.36	-0.24	0	0	0	0	0	0	0	0
3/7/2025 11:46	11302	EMMA_T1	12	13	1	0.31	0.34	0.03	0	0	0	0	0	0	0	0
3/7/2025 11:46	40901	JESH_T1	2	2	0	0.5	0.5	0	0.31	0.27	0	0	0	0	0	0
3/7/2025 11:46	45801	HEGI_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/7/2025 11:46	40902	JESH_T1	4	1	-3	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/7/2025 11:46	11301	EMMA_T1	0	0	0	0	0	0	-0.83	-0.81	0	0	0	0	0	0
3/7/2025 11:46	11303	EMMA_T1	8	8	0	0.53	0.63	0.1	0	0	0	0	0	0	0	0
3/7/2025 11:47	20603	GRWO_T2	4	25	21	0.18	0.18	0	0.47	0.49	0	0	0	0	0	0
3/7/2025 11:47	67303	WYOM_T2	1	3	2	0.4	0.33	-0.07	-0.59	-0.56	0	0	0	0	0	0
3/7/2025 11:48	11301	EMMA_T1	0	0	0	0	0	0	-0.83	-0.81	0	0	0	0	0	0
3/7/2025 11:48	11303	EMMA_T1	8	8	0	0.53	0.63	0.1	0	0	0	0	0	0	0	0
3/7/2025 11:48	11302	EMMA_T1	12	13	1	0.31	0.34	0.03	0	0	0	0	0	0	0	0
3/7/2025 11:49	52101	MEIS_T1	2	2	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
3/7/2025 11:49	52102	MEIS_T1	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
3/7/2025 11:50	41202	KENM_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/7/2025 11:50	47101	MARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/7/2025 11:50	41204	KENM_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/7/2025 11:50	47104	MARL_T1	0	0	0	0	0	0	-2.09	-2.19	0	0	0	0	0	0
3/7/2025 11:50	26401	INOR_T1	144	120	-24	1.85	6.65	4.8	1.06	1.01	0	0	0	0	0	0
3/7/2025 11:50	65501	MOJO_T1	0	0	0	0	0	0	-0.98	-1.01	1	1	0	900	900	0
3/7/2025 11:50	41205	KENM_T2	0	0	0	0	0	0	-0.76	-0.67	1	1	0	600	600	0
3/7/2025 11:50	26402	INOR_T1	10	7	-3	0.61	0	-0.61	0	0	0	0	0	0	0	0
3/7/2025 11:54	16102	BING_T2	12	24	12	0.4	0.42	0.02	0.05	0.03	0	0	0	0	0	0
3/7/2025 11:54	66201	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 11:54	52401	GRPA_T2	1	5	4	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
3/7/2025 11:54	16101	BING_T2	2	4	2	0.3	0.45	0.15	0	0	0	0	0	0	0	0
3/7/2025 11:54	26402	INOR_T1	10	7	-3	0.61	0	-0.61	-0.76	-0.92	1	1	0	600	600	0
3/7/2025 11:54	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 11:54	67502	WEWI_T2	20	32	12	0.5	0.46	-0.04	0	0	0	0	0	0	0	0
3/7/2025 11:54	52404	GRPA_T2	0	1	1	0	0.4	0.4	0.47	-0.01	0	0	0	0	0	0
3/7/2025 11:54	66203	SISP_T2	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
3/7/2025 11:54	52402	GRPA_T2	29	22	-7	0.57	0.72	0.15	0	0	0	0	0	0	0	0
3/7/2025 11:54	67503	WEWI_T2	2	6	4	0.4	0.43	0.03	0	0	0	0	0	0	0	0
3/7/2025 11:54	16103	BING_T2	3	9	6	0.73	0.4	-0.33	0	0	0	0	0	0	0	0
3/7/2025 11:54	52403	GRPA_T2	56	78	22	0.57	0.54	-0.03	0	0	0	0	0	0	0	0
3/7/2025 11:54	26401	INOR_T1	144	120	-24	1.85	6.65	4.8	0	0	0	0	0	0	0	0
3/7/2025 11:55	52401	GRPA_T2	1	5	4	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
3/7/2025 11:55	52404	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/7/2025 11:55	52402	GRPA_T2	29	22	-7	0.57	0.72	0.15	0	0	0	0	0	0	0	0
3/7/2025 11:55	60201	ATGL_T2	2	4	2	0.3	0.38	0.08	-0.15	-0.19	0	0	0	0	0	0
3/7/2025 11:55	52403	GRPA_T2	56	78	22	0.57	0.54	-0.03	-0.6	-0.59	0	0	0	0	0	0
3/7/2025 11:56	60201	ATGL_T2	2	4	2	0.3	0.38	0.08	0	0	0	0	0	0	0	0
3/7/2025 11:58	44801	EDAN_T2	6	9	3	0.47	0.5	0.03	-0.37	-0.36	0	0	0	0	0	0
3/7/2025 11:58	10805	CHHI_T2	3	6	3	2.4	1.38	-1.02	-1.78	-1.84	1	1	0	1200	1200	0
3/7/2025 11:58	44802	EDAN_T2	3	5	2	0.2	0.22	0.02	0	0	0	0	0	0	0	0
3/7/2025 11:59	44801	EDAN_T2	6	9	3	0.47	0.5	0.03	0	0	0	0	0	0	0	0
3/7/2025 11:59	44802	EDAN_T2	3	5	2	0.2	0.22	0.02	-2.17	-2.2	0	0	0	0	0	0
3/7/2025 12:00	10805	CHHI_T2	4	18	14	1.98	0.64	-1.34	-1.78	-1.84	1	1	0	1200	1200	0
3/7/2025 12:01	63602	LETO_T1	8	7	-1	0.46	0.39	-0.07	0	0	0	0	0	0	0	0
3/7/2025 12:01	63601	LETO_T1	8	8	0	0.56	0.63	0.07	0.91	0.94	1	1	0	900	900	0
3/7/2025 12:02	11302	EMMA_T1	9	17	8	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
3/7/2025 12:02	63801	HEMP_T1	4	4	0	0.38	0.4	0.02	0	0	0	0	0	0	0	0
3/7/2025 12:02	63803	HEMP_T1	5	2	-3	0.34	0.45	0.11	0	0	0	0	0	0	0	0
3/7/2025 12:02	11303	EMMA_T1	6	8	2	0.7	0.64	-0.06	0	0	0	0	0	0	0	0
3/7/2025 12:02	10805	CHHI_T2	4	18	14	1.98	0.64	-1.34	0	0	0	0	0	0	0	0
3/7/2025 12:02	63802	HEMP_T1	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/7/2025 12:02	63804	HEMP_T1	1	1	0	6.2	6.5	0.3	0.95	0.89	0	0	0	0	0	0
3/7/2025 12:04	63803	HEMP_T1	5	2	-3	0.34	0.45	0.11	0	0	0	0	0	0	0	0
3/7/2025 12:04	63804	HEMP_T1	1	1	0	6.2	6.5	0.3	0	0	0	0	0	0	0	0
3/7/2025 12:04	63801	HEMP_T1	4	4	0	0.38	0.4	0.02	0	0	0	0	0	0	0	0
3/7/2025 12:04	63802	HEMP_T1	2	1	-1	0.2	0.1	-0.1	0.32	0.58	0	0	0	0	0	0
3/7/2025 12:05	44201	POIN_T1	6	25	19	0.1	0.16	0.06	-1.42	-1.46	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/7/2025 12:06	10903	COOP_T2	3	3	0	0.57	0.87	0.3	0	0	0	0	0	0	0	0
3/7/2025 12:06	47104	MARL_T1	0	2	2	0	0.1	0.1	-2.16	-2.18	0	0	0	0	0	0
3/7/2025 12:07	65703	RVIL_T1	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
3/7/2025 12:07	65702	RVIL_T2	10	10	0	0.38	0.3	-0.08	-2.26	-2.48	0	0	0	0	0	0
3/7/2025 12:07	65701	RVIL_T1	1	1	0	0.2	0.4	0.2	-0.33	-0.29	0	0	0	0	0	0
3/7/2025 12:08	67402	WAKE_T2	3	2	-1	0.27	0.35	0.08	0.28	0.26	0	0	0	0	0	0
3/7/2025 12:08	67401	WAKE_T2	5	4	-1	0.5	0.83	0.33	0	0	0	0	0	0	0	0
3/7/2025 12:08	44201	POIN_T1	6	25	19	0.1	0.16	0.06	-1.46	-1.46	1	1	0	1200	1200	0
3/7/2025 12:09	67401	WAKE_T2	5	4	-1	0.5	0.83	0.33	-1.2	-1.19	0	0	0	0	0	0
3/7/2025 12:09	67402	WAKE_T2	3	2	-1	0.27	0.35	0.08	0	0	0	0	0	0	0	0
3/7/2025 12:10	65205	PRIN_T1	1	2	1	1.3	2.85	1.55	0	0	0	0	0	0	0	0
3/7/2025 12:10	65702	RVIL_T2	10	10	0	0.38	0.3	-0.08	-2.26	-2.48	0	0	0	0	0	0
3/7/2025 12:10	67106	SPRI_T2	4	6	2	0.28	0.25	-0.03	-3.88	-3.86	2	2	0	1800	1800	0
3/7/2025 12:10	65203	PRIN_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/7/2025 12:10	13606	RICH_T2	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
3/7/2025 12:10	67101	SPRI_T2	1	1	0	2.5	0.8	-1.7	0	0	0	0	0	0	0	0
3/7/2025 12:10	13601	RICH_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/7/2025 12:10	13604	RICH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 12:10	65202	PRIN_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/7/2025 12:11	67101	SPRI_T2	1	1	0	2.5	0.8	-1.7	0	0	0	0	0	0	0	0
3/7/2025 12:11	67106	SPRI_T2	4	6	2	0.28	0.25	-0.03	-1.94	-1.93	1	1	0	900	900	0
3/7/2025 12:11	67401	WAKE_T2	5	4	-1	0.5	0.83	0.33	-1.2	-1.19	0	0	0	0	0	0
3/7/2025 12:11	67402	WAKE_T2	3	2	-1	0.27	0.35	0.08	0	0	0	0	0	0	0	0
3/7/2025 12:11	42701	AUGU_T1	5	11	6	0.8	0.45	-0.35	0	0	4	4	0	3600	3600	0
3/7/2025 12:12	15204	SFAR_T2	3	4	1	0.67	0.8	0.13	0	0	0	0	0	0	0	0
3/7/2025 12:12	67402	WAKE_T2	3	2	-1	0.27	0.35	0.08	0	0	0	0	0	0	0	0
3/7/2025 12:12	15203	SFAR_T2	7	18	11	0.69	0.41	-0.28	0	0	0	0	0	0	0	0
3/7/2025 12:12	42701	AUGU_T1	5	11	6	0.8	0.45	-0.35	0	0	2	2	0	1800	1800	0
3/7/2025 12:12	67401	WAKE_T2	5	4	-1	0.5	0.83	0.33	0	0	0	0	0	0	0	0
3/7/2025 12:12	15201	SFAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 12:14	42701	AUGU_T1	5	11	6	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
3/7/2025 12:14	20603	GRWO_T2	21	30	9	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
3/7/2025 12:14	17802	GILB_T1	2	2	0	1.25	1	-0.25	0.16	0.18	0	0	0	0	0	0
3/7/2025 12:14	20601	GRWO_T2	0	1	1	0	0.1	0.1	0.17	0.14	0	0	0	0	0	0
3/7/2025 12:16	20602	GRWO_T2	1	0	-1	7.5	0	-7.5	0	0	0	0	0	0	0	0
3/7/2025 12:16	20603	GRWO_T2	16	26	10	0.17	0.17	0	0	0	0	0	0	0	0	0
3/7/2025 12:16	20601	GRWO_T2	0	1	1	0	0.1	0.1	0.17	0.14	0	0	0	0	0	0
3/7/2025 12:16	10801	CHHI_T1	6	6	0	0.38	0.53	0.15	-1.37	-1.37	2	2	0	1500	1500	0
3/7/2025 12:17	20602	GRWO_T2	1	0	-1	7.5	0	-7.5	0	0	0	0	0	0	0	0
3/7/2025 12:17	20603	GRWO_T2	16	26	10	0.17	0.17	0	0	0	0	0	0	0	0	0
3/7/2025 12:17	20601	GRWO_T2	0	1	1	0	0.1	0.1	0.17	0.14	0	0	0	0	0	0
3/7/2025 12:18	10805	CHHI_T2	6	19	13	1.33	0.64	-0.69	0	0	0	0	0	0	0	0
3/7/2025 12:19	48303	ORWI_T2	2	2	0	0.7	0.85	0.15	0.51	0.52	0	0	0	0	0	0
3/7/2025 12:19	48302	ORWI_T2	2	2	0	1.55	1.95	0.4	0	0	0	0	0	0	0	0
3/7/2025 12:20	57401	SPAN_T1	24	72	48	0.59	0.43	-0.16	-3.16	-3.39	3	3	0	1800	1800	0
3/7/2025 12:20	57403	SPAN_T1	19	37	18	0.44	0.38	-0.06	0	0	0	0	0	0	0	0
3/7/2025 12:20	52102	MEIS_T1	1	7	6	0.7	0.44	-0.26	0	0	0	0	0	0	0	0
3/7/2025 12:20	52101	MEIS_T1	2	3	1	0.85	0.97	0.12	0	0	0	0	0	0	0	0
3/7/2025 12:20	42701	AUGU_T1	7	10	3	0.54	0.49	-0.05	0	0	0	0	0	0	0	0
3/7/2025 12:21	52403	GRPA_T2	73	83	10	0.54	0.55	0.01	-0.59	-0.5	0	0	0	0	0	0
3/7/2025 12:21	52404	GRPA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/7/2025 12:21	52401	GRPA_T2	4	13	9	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/7/2025 12:21	52402	GRPA_T2	22	89	67	0.72	0.42	-0.3	0	0	0	0	0	0	0	0
3/7/2025 12:21	52501	PROG_T1	1	1	0	0.2	0.2	0	0.51	0.46	1	1	0	300	300	0
3/7/2025 12:22	47104	MARL_T1	0	2	2	0	0.1	0.1	-2.18	-2.21	0	0	0	0	0	0
3/7/2025 12:22	15203	SFAR_T2	7	19	12	0.74	0.39	-0.35	-2.62	-2.64	0	0	0	0	0	0
3/7/2025 12:22	15204	SFAR_T2	3	5	2	0.4	0.66	0.26	0	0	0	0	0	0	0	0
3/7/2025 12:22	28805	LAKE_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
3/7/2025 12:22	28801	LAKE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 12:22	47101	MARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/7/2025 12:23	57401	SPAN_T1	24	72	48	0.59	0.43	-0.16	-1.13	-1.15	1	1	0	600	600	0
3/7/2025 12:23	57403	SPAN_T1	19	37	18	0.44	0.38	-0.06	0	0	0	0	0	0	0	0
3/7/2025 12:23	52501	PROG_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/7/2025 12:23	67203	TEHI_T1	0	0	0	0	0	0	3	2.99	1	1	0	600	600	0
3/7/2025 12:24	44302	BEAV_T2	6	5	-1	0.6	0.82	0.22	0.27	0.25	0	0	0	0	0	0
3/7/2025 12:24	44301	BEAV_T2	8	11	3	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
3/7/2025 12:25	44301	BEAV_T2	8	11	3	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
3/7/2025 12:25	44302	BEAV_T2	6	5	-1	0.6	0.82	0.22	0.27	0.25	0	0	0	0	0	0
3/7/2025 12:25	52501	PROG_T1	1	1	0	0.2	0.2	0	0.46	0.5	1	1	0	300	300	0
3/7/2025 12:26	52404	GRPA_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/7/2025 12:26	52501	PROG_T1	1	1	0	0.2	0.2	0	0.46	0.5	1	1	0	300	300	0
3/7/2025 12:26	52403	GRPA_T2	73	83	10	0.54	0.55	0.01	-0.5	-0.48	0	0	0	0	0	0
3/7/2025 12:26	52402	GRPA_T2	22	89	67	0.72	0.42	-0.3	0	0	0	0	0	0	0	0
3/7/2025 12:26	52401	GRPA_T2	4	13	9	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/7/2025 12:26	15201	SFAR_T1	0	0	0	0	0	0	-0.01	-0.01	1	1	0	1200	1200	0
3/7/2025 12:26	44302	BEAV_T2	6	5	-1	0.6	0.82	0.22	0	0	0	0	0	0	0	0
3/7/2025 12:26	44301	BEAV_T2	8	11	3	0.45	0.37	-0.08	0.34	0.81	1	1	0	600	600	0
3/7/2025 12:27	44301	BEAV_T2	8	11	3	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
3/7/2025 12:27	52501	PROG_T1	1	1	0	0.2	0.2	0	0.46	0.5	1	1	0	300	300	0
3/7/2025 12:27	44302	BEAV_T2	6	5	-1	0.6	0.82	0.22	0	0	0	0	0	0	0	0
3/7/2025 12:28	44302	BEAV_T2	6	5	-1	0.6	0.82	0.22	0	0	0	0	0	0	0	0
3/7/2025 12:28	44301	BEAV_T2	8	11	3	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
3/7/2025 12:31	41601	CLEV_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/7/2025 12:31	41602	CLEV_T1	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
3/7/2025 12:32	41205	KENM_T2	0	0	0	0	0	0	-0.73	-0.76	1	1	0	600	600	0
3/7/2025 12:32	41204	KENM_T2	1	1	0	0.2	0.1	-0.1	0.01	0.02	0	0	0	0	0	0
3/7/2025 12:36	52101	MEIS_T1	2	3	1	0.5	1	0.5	0	0	0	0	0	0	0	0
3/7/2025 12:36	52102	MEIS_T1	1	8	7	1	0.55	-0.45	0	0	0	0	0	0	0	0
3/7/2025 12:37	52401	GRPA_T2	13	6	-7	0.28	0.33	0.05	0	0	0	0	0	0	0	0
3/7/2025 12:37	52402	GRPA_T2	89	26	-63	0.42	0.68	0.26	0	0	0	0	0	0	0	0
3/7/2025 12:37	52403	GRPA_T2	82	36	-46	0.55	0.79	0.24	-0.48	-0.47	0	0	0	0	0	0
3/7/2025 12:37	64101	REFR_T1	9	10	1	0.48	0.5	0.02	-0.16	-0.16	0	0	0	0	0	0
3/7/2025 12:37	52404	GRPA_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/7/2025 12:38	40301	TAMA_T3	6	6	0	0.68	0.78	0.1	0	0	0	0	0	0	0	0
3/7/2025 12:38	57201	ROSS_T1	7	13	6	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
3/7/2025 12:38	40302	TAMA_T3	22	15	-7	0.48	0.5	0.02	0	0	0	0	0	0	0	0
3/7/2025 12:38	57203	ROSS_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/7/2025 12:38	57205	ROSS_T1	5	7	2	1.04	0.96	-0.08	0.15	0.14	0	0	0	0	0	0
3/7/2025 12:38	40303	TAMA_T3	6	1	-5	0.2	0.1	-0.1	2	2.27	0	0	0	0	0	0
3/7/2025 12:39	40303	TAMA_T3	6	1	-5	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/7/2025 12:39	40301	TAMA_T3	6	6	0	0.68	0.78	0.1	1.88	1.8	1	1	0	1200	1200	0
3/7/2025 12:39	40302	TAMA_T3	22	15	-7	0.48	0.5	0.02	0	0	0	0	0	0	0	0
3/7/2025 12:41	22003	BOHE_T1	6	3	-3	0.47	0.73	0.26	0	0	0	0	0	0	0	0
3/7/2025 12:41	42901	MIDD_T2	6	3	-3	0.42	0.27	-0.15	0	0	0	0	0	0	0	0
3/7/2025 12:41	42902	MIDD_T2	5	2	-3	0.5	0.65	0.15	0	0	0	0	0	0	0	0
3/7/2025 12:41	42903	MIDD_T2	5	3	-2	1.1	1.3	0.2	0.21	0.22	0	0	0	0	0	0
3/7/2025 12:42	42701	AUGU_T1	10	11	1	0.47	0.51	0.04	0	0	2	2	0	1800	1800	0
3/7/2025 12:42	21206	ECAR_T2	1	1	0	7.5	8	0.5	0.37	0.41	0	0	0	0	0	0
3/7/2025 12:42	21202	ECAR_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 12:42	21204	ECAR_T2	5	4	-1	1.05	0.2	-0.85	0	0	0	0	0	0	0	0
3/7/2025 12:43	46002	BERW_T2	0	0	0	0	0	0	-0.8	-0.8	1	1	0	900	900	0
3/7/2025 12:43	42902	MIDD_T2	5	2	-3	0.5	0.65	0.15	-0.27	-0.21	0	0	0	0	0	0
3/7/2025 12:43	42901	MIDD_T2	6	3	-3	0.42	0.27	-0.15	0	0	0	0	0	0	0	0
3/7/2025 12:43	21202	ECAR_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 12:43	42701	AUGU_T1	10	11	1	0.47	0.51	0.04	0	0	2	2	0	1800	1800	0
3/7/2025 12:43	45501	DERR_T2	2	3	1	0.45	0.37	-0.08	0.02	0.07	4	4	0	3600	3600	0
3/7/2025 12:43	41601	CLEV_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/7/2025 12:43	42903	MIDD_T2	5	3	-2	1.1	1.3	0.2	0.21	0.22	0	0	0	0	0	0
3/7/2025 12:43	41602	CLEV_T1	2	2	0	0.55	0.6	0.05	0	0	0	0	0	0	0	0
3/7/2025 12:43	21204	ECAR_T2	5	4	-1	1.05	0.2	-0.85	0	0	0	0	0	0	0	0
3/7/2025 12:43	21206	ECAR_T2	1	1	0	7.5	8	0.5	0.37	0.41	0	0	0	0	0	0
3/7/2025 12:44	45501	DERR_T2	2	3	1	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
3/7/2025 12:44	45502	DERR_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
3/7/2025 12:46	54505	ENOL_T2	2	2	0	0.95	1.1	0.15	-0.66	-0.66	1	1	0	600	600	0
3/7/2025 12:46	40504	CRES_T1	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
3/7/2025 12:46	54504	ENOL_T2	3	3	0	0.53	0.53	0	0	0	0	0	0	0	0	0
3/7/2025 12:46	54503	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 12:46	40505	CRES_T1	2	1	-1	0.15	0.1	-0.05	0.32	0.25	0	0	0	0	0	0
3/7/2025 12:46	54501	ENOL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/7/2025 12:46	54502	ENOL_T2	4	4	0	0.28	0.3	0.02	0	0	0	0	0	0	0	0
3/7/2025 12:48	40505	CRES_T1	2	1	-1	0.15	0.1	-0.05	0.64	0.51	0	0	0	0	0	0
3/7/2025 12:48	40504	CRES_T1	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
3/7/2025 12:49	40504	CRES_T1	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
3/7/2025 12:49	40505	CRES_T1	2	1	-1	0.15	0.1	-0.05	0.32	0.25	0	0	0	0	0	0
3/7/2025 12:52	52101	MEIS_T1	3	3	0	0.97	1.03	0.06	0	0	0	0	0	0	0	0
3/7/2025 12:52	52102	MEIS_T1	7	13	6	0.44	0.46	0.02	0	0	0	0	0	0	0	0
3/7/2025 12:53	57205	ROSS_T1	5	7	2	1.28	0.91	-0.37	0	0	0	0	0	0	0	0
3/7/2025 12:53	57203	ROSS_T1	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
3/7/2025 12:53	65302	NBRI_T2	4	4	0	0.53	0.45	-0.08	0	0	0	0	0	0	0	0
3/7/2025 12:53	57201	ROSS_T1	7	15	8	0.24	0.22	-0.02	-0.76	-0.86	0	0	0	0	0	0
3/7/2025 12:53	65303	NBRI_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/7/2025 12:54	40504	CRES_T1	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
3/7/2025 12:54	40505	CRES_T1	2	1	-1	0.15	0.1	-0.05	0.25	0.29	0	0	0	0	0	0
3/7/2025 12:56	13606	RICH_T2	2	2	0	0.7	0.6	-0.1	0.64	0.83	0	0	0	0	0	0
3/7/2025 12:56	42901	MIDD_T2	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
3/7/2025 12:56	42903	MIDD_T2	2	3	1	1.85	1.13	-0.72	0	0	0	0	0	0	0	0
3/7/2025 12:56	60301	TWVA_T2	0	0	0	0	0	0	-3.04	-3.07	2	2	0	1800	1800	0
3/7/2025 12:56	42902	MIDD_T2	2	1	-1	0.65	1.1	0.45	0	0	0	0	0	0	0	0
3/7/2025 12:57	57201	ROSS_T1	7	15	8	0.24	0.22	-0.02	-0.76	-0.86	0	0	0	0	0	0
3/7/2025 12:57	57203	ROSS_T1	2	2	0	0.15	0.3	0.15	0	0	0	0	0	0	0	0
3/7/2025 12:57	45501	DERR_T2	3	2	-1	0.33	0.35	0.02	0.04	0.12	2	2	0	1800	1800	0
3/7/2025 12:57	57205	ROSS_T1	5	7	2	1.28	0.91	-0.37	0	0	0	0	0	0	0	0
3/7/2025 12:59	45501	DERR_T2	3	2	-1	0.33	0.35	0.02	0.04	0.12	2	2	0	1800	1800	0
3/7/2025 13:00	54501	ENOL_T2	0	4	4	0	0.55	0.55	-0.53	-0.52	0	0	0	0	0	0
3/7/2025 13:00	54503	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/7/2025 13:00	54502	ENOL_T2	3	4	1	0.23	0.35	0.12	0	0	0	0	0	0	0	0
3/7/2025 13:00	15703	TANN_T2	4	4	0	2.03	2.15	0.12	0	0	0	0	0	0	0	0
3/7/2025 13:00	15702	TANN_T2	2	1	-1	0.3	0.4	0.1	-1.11	-1.08	0	0	0	0	0	0
3/7/2025 13:00	54504	ENOL_T2	3	3	0	0.53	0.63	0.1	0	0	0	0	0	0	0	0
3/7/2025 13:00	54505	ENOL_T2	2	4	2	1.05	0.9	-0.15	0	0	0	0	0	0	0	0
3/7/2025 13:01	54505	ENOL_T2	2	4	2	1.05	0.9	-0.15	0	0	0	0	0	0	0	0
3/7/2025 13:01	54503	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/7/2025 13:01	54502	ENOL_T2	3	4	1	0.23	0.35	0.12	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/7/2025 13:01	54504	ENOL_T2	3	3	0	0.53	0.63	0.1	0	0	0	0	0	0	0	0
3/7/2025 13:01	54501	ENOL_T2	0	4	4	0	0.55	0.55	-0.53	-0.52	0	0	0	0	0	0
3/7/2025 13:02	11301	EMMA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 13:02	11303	EMMA_T1	9	9	0	0.58	0.49	-0.09	0	0	0	0	0	0	0	0
3/7/2025 13:02	11302	EMMA_T1	15	16	1	0.37	0.39	0.02	0	0	0	0	0	0	0	0
3/7/2025 13:03	54504	ENOL_T2	3	3	0	0.53	0.63	0.1	0	0	0	0	0	0	0	0
3/7/2025 13:03	54503	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/7/2025 13:03	54502	ENOL_T2	3	4	1	0.23	0.35	0.12	0	0	0	0	0	0	0	0
3/7/2025 13:03	54501	ENOL_T2	0	4	4	0	0.55	0.55	0	0	0	0	0	0	0	0
3/7/2025 13:03	54505	ENOL_T2	2	4	2	1.05	0.9	-0.15	0	0	0	0	0	0	0	0
3/7/2025 13:04	41602	CLEV_T1	1	2	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/7/2025 13:04	41601	CLEV_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
3/7/2025 13:05	41601	CLEV_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
3/7/2025 13:05	41602	CLEV_T1	1	2	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/7/2025 13:08	52404	GRPA_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/7/2025 13:08	52101	MEIS_T1	3	3	0	0.93	1.17	0.24	0	0	0	0	0	0	0	0
3/7/2025 13:08	52401	GRPA_T2	6	15	9	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
3/7/2025 13:08	52102	MEIS_T1	7	107	100	0.54	0.21	-0.33	0	0	0	0	0	0	0	0
3/7/2025 13:08	52402	GRPA_T2	16	53	37	0.79	0.52	-0.27	0	0	0	0	0	0	0	0
3/7/2025 13:08	52403	GRPA_T2	36	41	5	0.79	0.94	0.15	-0.92	-0.98	0	0	0	0	0	0
3/7/2025 13:09	66505	SMAN_T2	0	1	1	0	0	0	0.79	0.63	0	0	0	0	0	0
3/7/2025 13:09	66501	SMAN_T2	2	2	0	0.65	0.35	-0.3	0	0	0	0	0	0	0	0
3/7/2025 13:09	66502	SMAN_T2	8	5	-3	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
3/7/2025 13:09	66503	SMAN_T2	2	1	-1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
3/7/2025 13:09	52501	PROG_T1	3	2	-1	0.13	0.15	0.02	0.48	0.81	1	0	-1	300	0	-300
3/7/2025 13:09	52402	GRPA_T2	16	53	37	0.79	0.52	-0.27	0	0	0	0	0	0	0	0
3/7/2025 13:09	52404	GRPA_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/7/2025 13:09	52401	GRPA_T2	6	15	9	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
3/7/2025 13:09	66504	SMAN_T2	3	3	0	0.63	0.57	-0.06	0	0	0	0	0	0	0	0
3/7/2025 13:09	52403	GRPA_T2	36	41	5	0.79	0.94	0.15	-0.92	-0.98	0	0	0	0	0	0
3/7/2025 13:10	10101	ALLE_T3	12	2	-10	0.94	5.8	4.86	0	0	0	0	0	0	0	0
3/7/2025 13:10	66503	SMAN_T2	2	1	-1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
3/7/2025 13:10	66502	SMAN_T2	8	5	-3	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
3/7/2025 13:10	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 13:10	66501	SMAN_T2	2	2	0	0.65	0.35	-0.3	0	0	0	0	0	0	0	0
3/7/2025 13:10	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 13:10	66504	SMAN_T2	3	3	0	0.63	0.57	-0.06	-0.55	-0.56	0	0	0	0	0	0
3/7/2025 13:10	10103	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 13:10	52501	PROG_T1	3	2	-1	0.13	0.15	0.02	0	0	0	0	0	0	0	0
3/7/2025 13:10	66505	SMAN_T2	0	1	1	0	0	0	0.79	0.63	0	0	0	0	0	0
3/7/2025 13:11	66504	SMAN_T2	3	3	0	0.63	0.57	-0.06	0	0	0	0	0	0	0	0
3/7/2025 13:11	66501	SMAN_T2	2	2	0	0.65	0.35	-0.3	0	0	0	0	0	0	0	0
3/7/2025 13:11	66502	SMAN_T2	8	5	-3	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
3/7/2025 13:11	66503	SMAN_T2	2	1	-1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
3/7/2025 13:11	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 13:12	66505	SMAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 13:12	46005	BERW_T1	2	3	1	0.55	0.7	0.15	0	0	0	0	0	0	0	0
3/7/2025 13:12	66501	SMAN_T2	2	2	0	0.65	0.35	-0.3	0	0	0	0	0	0	0	0
3/7/2025 13:12	66502	SMAN_T2	8	5	-3	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
3/7/2025 13:12	66503	SMAN_T2	2	1	-1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
3/7/2025 13:12	66504	SMAN_T2	3	3	0	0.63	0.57	-0.06	0	0	0	0	0	0	0	0
3/7/2025 13:12	46001	BERW_T1	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
3/7/2025 13:13	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 13:13	46005	BERW_T1	2	3	1	0.55	0.7	0.15	0	0	0	0	0	0	0	0
3/7/2025 13:14	46504	LOHA_T1	3	19	16	0.97	0.31	-0.66	0	0	0	0	0	0	0	0
3/7/2025 13:14	42701	AUGU_T1	11	9	-2	0.49	0.6	0.11	0	0	2	2	0	1800	1800	0
3/7/2025 13:14	46506	LOHA_T1	3	4	1	3.23	3.03	-0.2	0	0	0	0	0	0	0	0
3/7/2025 13:14	46502	LOHA_T1	0	0	0	0	0	0	-1.33	-1.38	1	1	0	1200	1200	0
3/7/2025 13:15	46001	BERW_T1	0	0	0	0	0	0	0.69	0.69	0	0	0	0	0	0
3/7/2025 13:15	46005	BERW_T1	2	3	1	0.5	0.77	0.27	0	0	0	0	0	0	0	0
3/7/2025 13:20	43202	MVIL_T2	43	52	9	0.27	0.4	0.13	-0.64	-0.65	0	0	0	0	0	0
3/7/2025 13:20	43201	MVIL_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
3/7/2025 13:21	43201	MVIL_T2	1	1	0	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
3/7/2025 13:21	43202	MVIL_T2	43	52	9	0.27	0.4	0.13	-0.65	-0.62	0	0	0	0	0	0
3/7/2025 13:22	58401	MORO_T1	3	5	2	0.13	0.38	0.25	-1.09	-1.11	1	1	0	600	600	0
3/7/2025 13:23	67401	WAKE_T2	5	5	0	0.54	0.62	0.08	0	0	0	0	0	0	0	0
3/7/2025 13:23	67402	WAKE_T2	4	5	1	0.2	0.32	0.12	0.26	0.24	0	0	0	0	0	0
3/7/2025 13:23	58401	MORO_T1	3	5	2	0.13	0.38	0.25	-1.09	-1.11	1	1	0	600	600	0
3/7/2025 13:24	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/7/2025 13:24	52403	GRPA_T2	39	43	4	0.83	0.89	0.06	-0.98	-0.94	0	0	0	0	0	0
3/7/2025 13:24	52401	GRPA_T2	13	8	-5	0.29	0.31	0.02	0	0	0	0	0	0	0	0
3/7/2025 13:24	42903	MIDD_T2	3	3	0	1.03	1.2	0.17	0	0	0	0	0	0	0	0
3/7/2025 13:24	42902	MIDD_T2	1	3	2	1.1	0.5	-0.6	-0.33	-0.28	0	0	0	0	0	0
3/7/2025 13:24	42901	MIDD_T2	1	3	2	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/7/2025 13:24	52402	GRPA_T2	17	55	38	0.79	0.5	-0.29	0	0	0	0	0	0	0	0
3/7/2025 13:25	67401	WAKE_T2	5	5	0	0.54	0.62	0.08	0	0	0	0	0	0	0	0
3/7/2025 13:25	67402	WAKE_T2	4	5	1	0.2	0.32	0.12	0	0	0	0	0	0	0	0
3/7/2025 13:27	42902	MIDD_T2	1	3	2	1.1	0.5	-0.6	-0.33	-0.28	0	0	0	0	0	0
3/7/2025 13:27	60701	BREC_T1	5	9	4	0.36	0.5	0.14	-0.93	-1.12	4	4	0	2400	2400	0
3/7/2025 13:27	42903	MIDD_T2	3	3	0	1.03	1.2	0.17	0	0	0	0	0	0	0	0
3/7/2025 13:27	42901	MIDD_T2	1	3	2	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/7/2025 13:28	60701	BREC_T1	5	9	4	0.36	0.5	0.14	-0.46	-0.56	2	2	0	1200	1200	0
3/7/2025 13:28	67401	WAKE_T2	5	5	0	0.54	0.62	0.08	0	0	0	0	0	0	0	0
3/7/2025 13:28	67402	WAKE_T2	4	5	1	0.2	0.32	0.12	0.26	0.24	0	0	0	0	0	0
3/7/2025 13:29	66902	SHIL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/7/2025 13:29	66901	SHIL_T2	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/7/2025 13:29	66903	SHIL_T2	0	0	0	0	0	0	-1.19	-1.17	0	0	0	0	0	0
3/7/2025 13:29	60701	BREC_T1	5	9	4	0.36	0.5	0.14	-2.32	-2.79	10	10	0	6000	6000	0
3/7/2025 13:30	44502	HAMI_T2	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
3/7/2025 13:30	60801	BUCK_T1	6	10	4	0.38	0.34	-0.04	-0.21	-0.23	0	0	0	0	0	0
3/7/2025 13:30	60803	BUCK_T1	4	3	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/7/2025 13:30	60701	BREC_T1	7	9	2	0.5	0.44	-0.06	-0.93	-1.12	4	4	0	2400	2400	0
3/7/2025 13:30	44505	HAMI_T2	2	2	0	0.3	0.2	-0.1	0.47	0.51	0	0	0	0	0	0
3/7/2025 13:30	17802	GILB_T1	2	1	-1	1.1	0.3	-0.8	0.13	0.09	0	0	0	0	0	0
3/7/2025 13:31	45501	DERR_T2	0	1	1	0	0.1	0.1	0.2	0.2	2	2	0	1800	1800	0
3/7/2025 13:31	60803	BUCK_T1	4	3	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/7/2025 13:31	60801	BUCK_T1	6	10	4	0.38	0.34	-0.04	-0.42	-0.46	0	0	0	0	0	0
3/7/2025 13:31	41601	CLEV_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
3/7/2025 13:31	41602	CLEV_T1	2	2	0	0.75	0.5	-0.25	0	0	0	0	0	0	0	0
3/7/2025 13:32	66902	SHIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
3/7/2025 13:32	60801	BUCK_T1	6	10	4	0.38	0.34	-0.04	-0.21	-0.23	0	0	0	0	0	0
3/7/2025 13:32	60803	BUCK_T1	4	3	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/7/2025 13:32	48303	ORWI_T2	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/7/2025 13:32	48302	ORWI_T2	2	2	0	1.65	1.65	0	-0.05	-0.04	0	0	0	0	0	0
3/7/2025 13:32	66901	SHIL_T2	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
3/7/2025 13:32	66903	SHIL_T2	0	0	0	0	0	0	-1.19	-1.17	0	0	0	0	0	0
3/7/2025 13:33	66901	SHIL_T2	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
3/7/2025 13:33	44502	HAMI_T2	1	1	0	3.2	3.2	0	0	0	0	0	0	0	0	0
3/7/2025 13:33	66903	SHIL_T2	0	0	0	0	0	0	-1.19	-1.17	0	0	0	0	0	0
3/7/2025 13:33	44505	HAMI_T2	2	2	0	0.3	0.2	-0.1	0.47	0.51	0	0	0	0	0	0
3/7/2025 13:33	66902	SHIL_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
3/7/2025 13:34	52402	GRPA_T2	53	85	32	0.51	0.42	-0.09	0	0	0	0	0	0	0	0
3/7/2025 13:34	52401	GRPA_T2	8	3	-5	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
3/7/2025 13:34	52403	GRPA_T2	40	42	2	0.93	0.84	-0.09	-0.49	-0.47	0	0	0	0	0	0
3/7/2025 13:34	52404	GRPA_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/7/2025 13:35	53501	EVIL_T2	3	3	0	0.67	0.93	0.26	-0.36	-0.41	1	1	0	600	600	0
3/7/2025 13:38	14802	TREI_T2	6	5	-1	0.27	0.46	0.19	0.39	0.4	0	0	0	0	0	0
3/7/2025 13:38	60801	BUCK_T1	6	10	4	0.38	0.34	-0.04	0	0	0	0	0	0	0	0
3/7/2025 13:38	60803	BUCK_T1	4	3	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/7/2025 13:38	14801	TREI_T2	5	7	2	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
3/7/2025 13:39	66501	SMAN_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
3/7/2025 13:39	66502	SMAN_T2	4	1	-3	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
3/7/2025 13:39	66504	SMAN_T2	2	3	1	0.8	0.67	-0.13	0	0	0	0	0	0	0	0
3/7/2025 13:39	66503	SMAN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/7/2025 13:40	52403	GRPA_T2	40	42	2	0.93	0.84	-0.09	-0.47	-0.48	0	0	0	0	0	0
3/7/2025 13:40	52401	GRPA_T2	8	3	-5	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
3/7/2025 13:40	52402	GRPA_T2	53	85	32	0.51	0.42	-0.09	0	0	0	0	0	0	0	0
3/7/2025 13:40	52404	GRPA_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/7/2025 13:42	66501	SMAN_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
3/7/2025 13:42	66503	SMAN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/7/2025 13:42	66504	SMAN_T2	2	3	1	0.8	0.67	-0.13	-0.64	-0.66	0	0	0	0	0	0
3/7/2025 13:42	66502	SMAN_T2	4	1	-3	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
3/7/2025 13:46	44502	HAMI_T2	1	1	0	3.2	3.1	-0.1	0	0	0	0	0	0	0	0
3/7/2025 13:46	60803	BUCK_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 13:46	60801	BUCK_T1	7	10	3	0.27	0.36	0.09	0	0	0	0	0	0	0	0
3/7/2025 13:46	44505	HAMI_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/7/2025 13:46	44504	HAMI_T2	0	0	0	0	0	0	-1.1	-1.08	0	0	0	0	0	0
3/7/2025 13:48	64801	MONE_T2	167	168	1	0.94	1.08	0.14	83.96	83.96	0	0	0	0	0	0
3/7/2025 13:48	60801	BUCK_T1	7	10	3	0.27	0.36	0.09	-0.23	-0.21	0	0	0	0	0	0
3/7/2025 13:48	64802	MONE_T2	142	156	14	0.56	0.6	0.04	0	0	0	0	0	0	0	0
3/7/2025 13:48	60803	BUCK_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 13:49	64801	MONE_T2	167	168	1	0.94	1.08	0.14	83.96	83.96	0	0	0	0	0	0
3/7/2025 13:49	60803	BUCK_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 13:49	17804	GILB_T2	2	3	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
3/7/2025 13:49	60801	BUCK_T1	7	10	3	0.27	0.36	0.09	-0.23	-0.21	0	0	0	0	0	0
3/7/2025 13:49	64802	MONE_T2	142	156	14	0.56	0.6	0.04	0	0	0	0	0	0	0	0
3/7/2025 13:49	17805	GILB_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/7/2025 13:51	64801	MONE_T2	167	168	1	0.94	1.08	0.14	0	0	0	0	0	0	0	0
3/7/2025 13:51	58401	MORO_T1	5	5	0	0.36	0.28	-0.08	0	0	0	0	0	0	0	0
3/7/2025 13:51	64101	REFR_T1	9	8	-1	0.47	0.46	-0.01	-0.09	-0.14	0	0	0	0	0	0
3/7/2025 13:51	64802	MONE_T2	142	156	14	0.56	0.6	0.04	0	0	0	0	0	0	0	0
3/7/2025 13:52	54602	SUMM_T2	14	14	0	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
3/7/2025 13:52	54603	SUMM_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/7/2025 13:52	54601	SUMM_T2	16	13	-3	1.18	1.25	0.07	0	0	0	0	0	0	0	0
3/7/2025 13:53	54603	SUMM_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/7/2025 13:53	54601	SUMM_T2	16	13	-3	1.18	1.25	0.07	-1.9	-1.86	2	2	0	2100	2100	0
3/7/2025 13:53	64101	REFR_T1	9	8	-1	0.47	0.46	-0.01	0	0	0	0	0	0	0	0
3/7/2025 13:53	64801	MONE_T2	167	168	1	0.94	1.08	0.14	0	0	0	0	0	0	0	0
3/7/2025 13:53	64802	MONE_T2	142	156	14	0.56	0.6	0.04	-0.01	-0.01	0	0	0	0	0	0
3/7/2025 13:53	54602	SUMM_T2	14	14	0	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
3/7/2025 13:54	54603	SUMM_T2	2	2	0	0.2	0.25	0.05	-0.06	-0.01	1	1	0	900	900	0
3/7/2025 13:54	54602	SUMM_T2	14	14	0	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
3/7/2025 13:54	54601	SUMM_T2	16	13	-3	1.18	1.25	0.07	-1.9	-1.86	2	2	0	2100	2100	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/7/2025 13:56	42901	MIDD_T2	2	5	3	0.45	0.33	-0.12	0	0	0	0	0	0	0	0
3/7/2025 13:56	42902	MIDD_T2	2	6	4	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/7/2025 13:56	42903	MIDD_T2	2	5	3	1.5	0.96	-0.54	0.16	0.07	0	0	0	0	0	0
3/7/2025 13:56	54602	SUMM_T2	14	14	0	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
3/7/2025 13:56	54603	SUMM_T2	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/7/2025 13:56	54601	SUMM_T2	16	13	-3	1.18	1.25	0.07	-3.79	-3.73	4	4	0	4200	4200	0
3/7/2025 13:57	54601	SUMM_T2	16	13	-3	1.18	1.25	0.07	-3.79	-3.73	4	4	0	4200	4200	0
3/7/2025 13:57	54602	SUMM_T2	14	14	0	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
3/7/2025 13:57	54603	SUMM_T2	2	2	0	0.2	0.25	0.05	-0.06	-0.01	1	1	0	900	900	0
3/7/2025 13:59	60803	BUCK_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 13:59	60801	BUCK_T1	7	10	3	0.27	0.36	0.09	-0.21	-0.22	0	0	0	0	0	0
3/7/2025 13:59	60201	ATGL_T2	3	4	1	0.37	0.38	0.01	-0.14	-0.01	0	0	0	0	0	0
3/7/2025 14:02	61802	EELI_T2	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
3/7/2025 14:02	61803	EELI_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/7/2025 14:02	63602	LETO_T1	8	113	105	0.33	0.23	-0.1	-0.41	-0.46	0	0	0	0	0	0
3/7/2025 14:02	61801	EELI_T2	5	7	2	0.16	0.33	0.17	0	0	0	0	0	0	0	0
3/7/2025 14:02	63601	LETO_T1	7	7	0	0.94	0.76	-0.18	0	0	0	0	0	0	0	0
3/7/2025 14:02	22602	KIMB_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/7/2025 14:02	22601	KIMB_T1	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
3/7/2025 14:03	21403	EXET_T2	1	1	0	0.7	0.5	-0.2	-1.33	-1.33	0	0	0	0	0	0
3/7/2025 14:03	21402	EXET_T2	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
3/7/2025 14:04	60201	ATGL_T2	4	2	-2	0.38	0.3	-0.08	-0.14	-0.01	0	0	0	0	0	0
3/7/2025 14:04	63601	LETO_T1	7	7	0	0.94	0.76	-0.18	0.76	0.98	1	1	0	900	900	0
3/7/2025 14:04	63602	LETO_T1	8	113	105	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
3/7/2025 14:06	63602	LETO_T1	8	113	105	0.33	0.23	-0.1	-0.46	-0.52	0	0	0	0	0	0
3/7/2025 14:06	63601	LETO_T1	7	7	0	0.94	0.76	-0.18	0	0	0	0	0	0	0	0
3/7/2025 14:10	15203	SFAR_T2	23	21	-2	0.36	0.34	-0.02	-1.38	-1.36	0	0	0	0	0	0
3/7/2025 14:10	15204	SFAR_T2	1	3	2	0.4	0.43	0.03	0	0	0	0	0	0	0	0
3/7/2025 14:12	15203	SFAR_T2	23	21	-2	0.36	0.34	-0.02	-1.38	-1.36	0	0	0	0	0	0
3/7/2025 14:12	15204	SFAR_T2	1	3	2	0.4	0.43	0.03	0	0	0	0	0	0	0	0
3/7/2025 14:12	45501	DERR_T2	1	1	0	0.1	0.2	0.1	0.2	0.19	2	2	0	1800	1800	0
3/7/2025 14:14	42902	MIDD_T2	5	30	25	0.54	0.22	-0.32	-0.31	-0.32	0	0	0	0	0	0
3/7/2025 14:14	60803	BUCK_T1	3	3	0	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/7/2025 14:14	47403	PENS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 14:14	42501	ALTA_T2	1	1	0	0.3	0.1	-0.2	0	0.01	1	1	0	600	600	0
3/7/2025 14:14	42901	MIDD_T2	3	10	7	0.27	0.48	0.21	0	0	0	0	0	0	0	0
3/7/2025 14:14	42903	MIDD_T2	3	140	137	1.17	0.4	-0.77	0	0	0	0	0	0	0	0
3/7/2025 14:14	47402	PENS_T1	3	1	-2	0.23	0.5	0.27	0	0	0	0	0	0	0	0
3/7/2025 14:14	60801	BUCK_T1	10	18	8	0.34	0.28	-0.06	-0.22	-0.24	0	0	0	0	0	0
3/7/2025 14:14	47401	PENS_T1	6	5	-1	0.87	0.88	0.01	0	0	0	0	0	0	0	0
3/7/2025 14:16	22101	EDEL_T2	0	0	0	0	0	0	0.39	0.35	1	1	0	1200	1200	0
3/7/2025 14:17	66902	SHIL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/7/2025 14:17	66901	SHIL_T2	2	1	-1	0.35	0.7	0.35	-0.44	-0.44	0	0	0	0	0	0
3/7/2025 14:22	64101	REFR_T1	7	6	-1	0.41	0.58	0.17	-0.13	-0.14	0	0	0	0	0	0
3/7/2025 14:23	66505	SMAN_T2	0	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0
3/7/2025 14:23	64101	REFR_T1	7	6	-1	0.41	0.58	0.17	-0.13	-0.14	0	0	0	0	0	0
3/7/2025 14:23	66504	SMAN_T2	4	11	7	0.68	0.32	-0.36	-0.74	-0.71	0	0	0	0	0	0
3/7/2025 14:23	66501	SMAN_T2	2	2	0	0.15	0.75	0.6	0	0	0	0	0	0	0	0
3/7/2025 14:23	66503	SMAN_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/7/2025 14:23	66502	SMAN_T2	4	11	7	0.25	0.41	0.16	0	0	0	0	0	0	0	0
3/7/2025 14:24	66505	SMAN_T2	0	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0
3/7/2025 14:24	66504	SMAN_T2	4	11	7	0.68	0.32	-0.36	-0.74	-0.71	0	0	0	0	0	0
3/7/2025 14:24	66502	SMAN_T2	4	11	7	0.25	0.41	0.16	0	0	0	0	0	0	0	0
3/7/2025 14:24	66501	SMAN_T2	2	2	0	0.15	0.75	0.6	0	0	0	0	0	0	0	0
3/7/2025 14:24	66503	SMAN_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/7/2025 14:26	66502	SMAN_T2	4	11	7	0.25	0.41	0.16	0	0	0	0	0	0	0	0
3/7/2025 14:26	66503	SMAN_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/7/2025 14:26	66501	SMAN_T2	2	2	0	0.15	0.75	0.6	0	0	0	0	0	0	0	0
3/7/2025 14:26	66505	SMAN_T2	0	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0
3/7/2025 14:26	66504	SMAN_T2	4	11	7	0.68	0.32	-0.36	0	0	0	0	0	0	0	0
3/7/2025 14:27	66504	SMAN_T2	4	11	7	0.68	0.32	-0.36	-1.47	-1.42	0	0	0	0	0	0
3/7/2025 14:27	66505	SMAN_T2	0	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0
3/7/2025 14:27	66502	SMAN_T2	4	11	7	0.25	0.41	0.16	0.14	-0.08	0	0	0	0	0	0
3/7/2025 14:27	66503	SMAN_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/7/2025 14:27	66501	SMAN_T2	2	2	0	0.15	0.75	0.6	0	0	0	0	0	0	0	0
3/7/2025 14:28	66503	SMAN_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/7/2025 14:28	66501	SMAN_T2	2	2	0	0.15	0.75	0.6	0	0	0	0	0	0	0	0
3/7/2025 14:28	66505	SMAN_T2	0	3	3	0	0.87	0.87	-0.3	-0.3	1	1	0	900	900	0
3/7/2025 14:28	66502	SMAN_T2	4	11	7	0.25	0.41	0.16	0.05	-0.03	0	0	0	0	0	0
3/7/2025 14:28	66504	SMAN_T2	4	11	7	0.68	0.32	-0.36	-0.74	-0.71	0	0	0	0	0	0
3/7/2025 14:28	45501	DERR_T2	0	2	2	0	0.15	0.15	0.19	0.16	2	2	0	1800	1800	0
3/7/2025 14:29	66502	SMAN_T2	4	11	7	0.25	0.41	0.16	0.05	-0.03	0	0	0	0	0	0
3/7/2025 14:29	66505	SMAN_T2	0	3	3	0	0.87	0.87	0	0	0	0	0	0	0	0
3/7/2025 14:29	66504	SMAN_T2	4	11	7	0.68	0.32	-0.36	0	0	0	0	0	0	0	0
3/7/2025 14:29	66501	SMAN_T2	2	2	0	0.15	0.75	0.6	0	0	0	0	0	0	0	0
3/7/2025 14:29	66503	SMAN_T2	2	2	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/7/2025 14:30	47403	PENS_T1	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
3/7/2025 14:30	10805	CHHI_T2	6	1	-5	1.82	8	6.18	0	0	0	0	0	0	0	0
3/7/2025 14:30	66505	SMAN_T2	3	5	2	0.87	0.82	-0.05	-0.3	-0.3	1	1	0	900	900	0
3/7/2025 14:30	66503	SMAN_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
3/7/2025 14:30	66502	SMAN_T2	11	11	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
3/7/2025 14:30	47402	PENS_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/7/2025 14:30	66504	SMAN_T2	11	11	0	0.31	0.35	0.04	0	0	0	0	0	0	0	0
3/7/2025 14:30	47401	PENS_T1	5	4	-1	0.86	0.63	-0.23	0	0	0	0	0	0	0	0
3/7/2025 14:30	66501	SMAN_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
3/7/2025 14:31	22101	EDEL_T2	0	0	0	0	0	0	0.35	0.35	1	1	0	1200	1200	0
3/7/2025 14:32	41002	LAUR_T2	57	2	-55	0.63	0.65	0.02	0	0	0	0	0	0	0	0
3/7/2025 14:32	41001	LAUR_T2	77	2	-75	0.68	1.1	0.42	0	0	0	0	0	0	0	0
3/7/2025 14:33	66504	SMAN_T2	11	11	0	0.31	0.35	0.04	0	0	0	0	0	0	0	0
3/7/2025 14:33	61702	ELIZ_T2	4	4	0	0.83	0.65	-0.18	-0.75	-0.75	1	1	0	300	300	0
3/7/2025 14:33	66503	SMAN_T2	1	2	1	0.3	0.25	-0.05	0.32	0.3	0	0	0	0	0	0
3/7/2025 14:33	66502	SMAN_T2	11	11	0	0.4	0.55	0.15	0	0	0	0	0	0	0	0
3/7/2025 14:33	66501	SMAN_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
3/7/2025 14:33	61704	ELIZ_T2	6	6	0	0.57	0.7	0.13	0	0	0	0	0	0	0	0
3/7/2025 14:33	66505	SMAN_T2	3	5	2	0.87	0.82	-0.05	0	0	0	0	0	0	0	0
3/7/2025 14:48	10801	CHHI_T1	1	0	-1	0.5	0	-0.5	-1.68	-1.04	2	1	-1	1500	900	-600
3/7/2025 14:49	66902	SHIL_T2	1	0	-1	0.1	0	-0.1	-1.08	-1.05	0	0	0	0	0	0
3/7/2025 14:49	66901	SHIL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/7/2025 14:52	15203	SFAR_T2	19	8	-11	0.24	0.39	0.15	0	0	0	0	0	0	0	0
3/7/2025 14:52	64101	REFR_T1	6	6	0	0.48	0.45	-0.03	-0.13	-0.1	0	0	0	0	0	0
3/7/2025 14:52	15204	SFAR_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/7/2025 14:53	64101	REFR_T1	6	6	0	0.48	0.45	-0.03	-0.26	-0.21	0	0	0	0	0	0
3/7/2025 14:54	15203	SFAR_T2	19	8	-11	0.24	0.39	0.15	-1.4	-1.37	0	0	0	0	0	0
3/7/2025 14:54	15204	SFAR_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/7/2025 14:54	64101	REFR_T1	6	6	0	0.48	0.45	-0.03	-0.39	-0.31	0	0	0	0	0	0
3/7/2025 14:55	64101	REFR_T1	6	6	0	0.48	0.45	-0.03	-0.39	-0.31	0	0	0	0	0	0
3/7/2025 14:56	15204	SFAR_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/7/2025 14:56	64101	REFR_T1	6	6	0	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
3/7/2025 14:56	15203	SFAR_T2	19	8	-11	0.24	0.39	0.15	-1.4	-1.37	0	0	0	0	0	0
3/7/2025 15:01	44202	POIN_T2	0	0	0	0	0	0	-0.61	-0.52	1	1	0	1200	1200	0
3/7/2025 15:02	64401	LAND_T1	0	0	0	0	0	0	-0.93	-0.92	1	1	0	600	600	0
3/7/2025 15:03	64401	LAND_T1	0	0	0	0	0	0	-0.93	-0.92	1	1	0	600	600	0
3/7/2025 15:05	64404	LAND_T2	23	47	24	0.12	0.14	0.02	0	0	0	0	0	0	0	0
3/7/2025 15:05	64704	LITI_T1	0	0	0	0	0	0	0.09	0.02	2	2	0	1200	1200	0
3/7/2025 15:05	20103	AVOC_T1	0	0	0	0	0	0	-0.29	-0.32	0	0	0	0	0	0
3/7/2025 15:05	64402	LAND_T2	6	6	0	0.53	0.57	0.04	-1.14	-1.18	2	2	0	1200	1200	0
3/7/2025 15:05	64401	LAND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 15:07	59201	THOM_T1	33	59	26	0.36	0.38	0.02	0	0	0	0	0	0	0	0
3/7/2025 15:07	59202	THOM_T1	383	533	150	0.38	0.51	0.13	0	0	0	0	0	0	0	0
3/7/2025 15:08	15203	SFAR_T2	8	33	25	0.39	0.15	-0.24	-1.37	-1.37	0	0	0	0	0	0
3/7/2025 15:08	44301	BEAV_T2	1	0	-1	0.2	0	-0.2	-0.12	0.11	1	1	0	600	600	0
3/7/2025 15:08	15204	SFAR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/7/2025 15:08	59201	THOM_T1	33	59	26	0.36	0.38	0.02	0	0	0	0	0	0	0	0
3/7/2025 15:08	59202	THOM_T1	383	533	150	0.38	0.51	0.13	0	0	0	0	0	0	0	0
3/7/2025 15:09	41304	FISH_T2	1	1	0	0	0	0	0.1	0.08	0	0	0	0	0	0
3/7/2025 15:09	52401	GRPA_T2	3	2	-1	0.23	0.3	0.07	-0.98	-0.96	0	0	0	0	0	0
3/7/2025 15:09	59201	THOM_T1	33	59	26	0.36	0.38	0.02	0	0	0	0	0	0	0	0
3/7/2025 15:09	59202	THOM_T1	383	533	150	0.38	0.51	0.13	0	0	0	0	0	0	0	0
3/7/2025 15:09	52402	GRPA_T2	88	16	-72	0.41	0.81	0.4	0	0	0	0	0	0	0	0
3/7/2025 15:09	52403	GRPA_T2	35	31	-4	0.86	0.69	-0.17	0	0	0	0	0	0	0	0
3/7/2025 15:09	52404	GRPA_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
3/7/2025 15:09	45301	WBER_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
3/7/2025 15:09	45303	WBER_T2	9	9	0	0.5	0.61	0.11	-0.67	-0.72	0	0	0	0	0	0
3/7/2025 15:10	15204	SFAR_T2	1	0	-1	0.2	0	-0.2	0	-0.01	0	0	0	0	0	0
3/7/2025 15:10	59201	THOM_T1	33	59	26	0.36	0.38	0.02	0	0	0	0	0	0	0	0
3/7/2025 15:10	42501	ALTA_T2	0	1	1	0	0	0	0.06	0.06	2	2	0	1200	1200	0
3/7/2025 15:10	41301	FISH_T1	3	3	0	1.83	1.77	-0.06	-0.29	-0.32	0	0	0	0	0	0
3/7/2025 15:10	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 15:10	15203	SFAR_T2	8	33	25	0.39	0.15	-0.24	-4.11	-4.11	0	0	0	0	0	0
3/7/2025 15:10	59202	THOM_T1	383	533	150	0.38	0.51	0.13	0	0	0	0	0	0	0	0
3/7/2025 15:11	60701	BREC_T1	8	7	-1	0.43	0.39	-0.04	-0.45	-0.46	2	2	0	1200	1200	0
3/7/2025 15:11	59202	THOM_T1	383	533	150	0.38	0.51	0.13	0	0	0	0	0	0	0	0
3/7/2025 15:11	44301	BEAV_T2	1	0	-1	0.2	0	-0.2	-0.12	0.11	1	1	0	600	600	0
3/7/2025 15:11	58705	ROSE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/7/2025 15:11	59201	THOM_T1	33	59	26	0.36	0.38	0.02	0	0	0	0	0	0	0	0
3/7/2025 15:11	58701	ROSE_T2	0	0	0	0	0	0	-0.3	-0.32	1	1	0	600	600	0
3/7/2025 15:12	41304	FISH_T2	1	0	-1	0	0	0	0.1	0.08	0	0	0	0	0	0
3/7/2025 15:12	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 15:12	15203	SFAR_T2	8	33	25	0.39	0.15	-0.24	-4.11	-4.11	0	0	0	0	0	0
3/7/2025 15:12	15204	SFAR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/7/2025 15:12	42501	ALTA_T2	0	1	1	0	0	0	0.06	0.06	2	2	0	1200	1200	0
3/7/2025 15:12	15001	BLMO_T1	4	4	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/7/2025 15:13	44802	EDAN_T2	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
3/7/2025 15:13	45301	WBER_T2	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
3/7/2025 15:13	44801	EDAN_T2	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/7/2025 15:13	23901	EFMO_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
3/7/2025 15:13	60701	BREC_T1	8	7	-1	0.43	0.39	-0.04	0	0	0	0	0	0	0	0
3/7/2025 15:13	41301	FISH_T1	3	3	0	1.83	1.77	-0.06	0	0	0	0	0	0	0	0
3/7/2025 15:13	45303	WBER_T2	9	9	0	0.5	0.61	0.11	-0.34	-0.36	0	0	0	0	0	0
3/7/2025 15:14	60701	BREC_T1	8	7	-1	0.43	0.39	-0.04	-0.45	-0.46	2	2	0	1200	1200	0
3/7/2025 15:14	10703	CATA_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/7/2025 15:14	10702	CATA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/7/2025 15:14	42503	ALTA_T2	0	0	0	0	0	0	-0.24	-0.62	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/7/2025 15:14	42501	ALTA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 15:14	10705	CATA_T2	1	0	-1	0.4	0	-0.4	0.03	0.02	0	0	0	0	0	0
3/7/2025 15:14	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 15:15	60701	BREC_T1	6	6	0	0.43	0.35	-0.08	-1.36	-1.39	6	6	0	3600	3600	0
3/7/2025 15:15	61001	DONV_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
3/7/2025 15:16	53902	HALI_T2	1	2	1	6	3	-3	0	0	0	0	0	0	0	0
3/7/2025 15:16	53601	DALM_T2	1	1	0	0.7	0.4	-0.3	-1.47	0.37	2	0	-2	1800	0	-1800
3/7/2025 15:16	53903	HALI_T2	5	5	0	0.76	0.94	0.18	0	0	0	0	0	0	0	0
3/7/2025 15:16	53901	HALI_T2	1	1	0	1.1	1.2	0.1	-2.1	-2.1	0	0	0	0	0	0
3/7/2025 15:17	53901	HALI_T2	1	1	0	1.1	1.2	0.1	-1.05	-1.05	0	0	0	0	0	0
3/7/2025 15:17	53903	HALI_T2	5	5	0	0.76	0.94	0.18	0	0	0	0	0	0	0	0
3/7/2025 15:17	53902	HALI_T2	1	2	1	6	3	-3	0	0	0	0	0	0	0	0
3/7/2025 15:17	23901	EFMO_T2	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
3/7/2025 15:18	60201	ATGL_T2	5	12	7	0.16	0.18	0.02	-0.03	-0.1	0	0	0	0	0	0
3/7/2025 15:18	53902	HALI_T2	1	2	1	6	3	-3	-0.29	-0.32	0	0	0	0	0	0
3/7/2025 15:18	53901	HALI_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
3/7/2025 15:18	53903	HALI_T2	5	5	0	0.76	0.94	0.18	0	0	0	0	0	0	0	0
3/7/2025 15:19	53903	HALI_T2	5	5	0	0.76	0.94	0.18	-0.14	-0.16	0	0	0	0	0	0
3/7/2025 15:19	57403	SPAN_T1	3	2	-1	0.37	0.5	0.13	-0.01	-0.04	0	0	0	0	0	0
3/7/2025 15:19	53902	HALI_T2	1	2	1	6	3	-3	0	0	0	0	0	0	0	0
3/7/2025 15:19	57401	SPAN_T1	2	2	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
3/7/2025 15:19	53901	HALI_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
3/7/2025 15:20	12402	MILF_T1	14	21	7	0.29	0.28	-0.01	-1.19	-1.2	0	0	0	0	0	0
3/7/2025 15:20	53902	HALI_T2	1	2	1	6	3	-3	0	0	0	0	0	0	0	0
3/7/2025 15:20	53901	HALI_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
3/7/2025 15:20	12403	MILF_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
3/7/2025 15:20	12401	MILF_T1	2	1	-1	0.35	0.6	0.25	-0.37	-0.28	0	0	0	0	0	0
3/7/2025 15:20	53903	HALI_T2	5	5	0	0.76	0.94	0.18	0	0	0	0	0	0	0	0
3/7/2025 15:22	50701	SMEC_T1	2	2	0	0.25	0.2	-0.05	0.19	0.16	0	0	0	0	0	0
3/7/2025 15:23	53902	HALI_T2	1	2	1	6	3	-3	0	0	0	0	0	0	0	0
3/7/2025 15:23	50701	SMEC_T1	2	2	0	0.25	0.2	-0.05	0.19	0.16	0	0	0	0	0	0
3/7/2025 15:23	53903	HALI_T2	5	5	0	0.76	0.94	0.18	0	0	0	0	0	0	0	0
3/7/2025 15:23	53901	HALI_T2	1	1	0	1.1	1.2	0.1	-1.05	-1.01	0	0	0	0	0	0
3/7/2025 15:24	50701	SMEC_T1	2	2	0	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
3/7/2025 15:27	50701	SMEC_T1	2	2	0	0.25	0.2	-0.05	0.39	0.32	0	0	0	0	0	0
3/7/2025 15:29	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
3/7/2025 15:29	23201	HIRU_T2	8	13	5	0.38	0.39	0.01	0	0	0	0	0	0	0	0
3/7/2025 15:33	47102	MARL_T2	2	5	3	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/7/2025 15:33	47103	MARL_T2	2	2	0	0.4	0.35	-0.05	-0.53	-0.54	0	0	0	0	0	0
3/7/2025 15:34	65901	SAKR_T2	2	1	-1	4.75	9.1	4.35	0	0	0	0	0	0	0	0
3/7/2025 15:34	65902	SAKR_T2	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 15:34	65904	SAKR_T2	7	0	-7	0.16	0	-0.16	-1.92	-1.9	2	2	0	900	900	0
3/7/2025 15:36	64101	REFR_T1	2	2	0	0.6	0.55	-0.05	-0.2	-0.21	0	0	0	0	0	0
3/7/2025 15:37	64101	REFR_T1	2	2	0	0.6	0.55	-0.05	-0.39	-0.42	0	0	0	0	0	0
3/7/2025 15:38	57201	ROSS_T1	32	30	-2	0.24	0.31	0.07	0	0	0	0	0	0	0	0
3/7/2025 15:38	57203	ROSS_T1	1	1	0	0.2	0.1	-0.1	-0.65	-0.66	0	0	0	0	0	0
3/7/2025 15:38	57205	ROSS_T1	8	7	-1	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
3/7/2025 15:38	64101	REFR_T1	2	2	0	0.6	0.55	-0.05	-0.39	-0.42	0	0	0	0	0	0
3/7/2025 15:39	64101	REFR_T1	2	2	0	0.6	0.55	-0.05	-0.2	-0.21	0	0	0	0	0	0
3/7/2025 15:40	57203	ROSS_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/7/2025 15:40	15201	SFAR_T1	0	0	0	0	0	0	-0.13	-0.15	1	1	0	1200	1200	0
3/7/2025 15:40	57201	ROSS_T1	32	30	-2	0.24	0.31	0.07	0	0	0	0	0	0	0	0
3/7/2025 15:40	57205	ROSS_T1	8	7	-1	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
3/7/2025 15:40	50701	SMEC_T1	2	1	-1	0.2	0.2	0	0.16	0.19	0	0	0	0	0	0
3/7/2025 15:40	64101	REFR_T1	2	2	0	0.6	0.55	-0.05	-0.2	-0.21	0	0	0	0	0	0
3/7/2025 15:41	64101	REFR_T1	2	2	0	0.6	0.55	-0.05	-0.39	-0.42	0	0	0	0	0	0
3/7/2025 15:42	64101	REFR_T1	2	2	0	0.6	0.55	-0.05	-0.2	-0.21	0	0	0	0	0	0
3/7/2025 15:42	15201	SFAR_T1	0	0	0	0	0	0	-0.13	-0.15	1	1	0	1200	1200	0
3/7/2025 15:43	40101	HUNT_T2	0	0	0	0	0	0	-1.48	-1.49	0	0	0	0	0	0
3/7/2025 15:46	40101	HUNT_T2	0	0	0	0	0	0	-1.48	-1.49	0	0	0	0	0	0
3/7/2025 15:51	23403	HONE_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/7/2025 15:54	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/7/2025 15:55	20603	GRWO_T2	22	112	90	0.2	0.38	0.18	0	0	0	0	0	0	0	0
3/7/2025 15:55	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/7/2025 15:55	20601	GRWO_T2	1	40	39	0.1	0.21	0.11	-0.1	-0.1	0	0	0	0	0	0
3/7/2025 15:56	57201	ROSS_T1	27	31	4	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/7/2025 15:56	57205	ROSS_T1	6	6	0	0.65	0.52	-0.13	0	0	0	0	0	0	0	0
3/7/2025 15:56	57203	ROSS_T1	1	0	-1	0.1	0	-0.1	-0.66	-0.68	0	0	0	0	0	0
3/7/2025 15:56	47104	MARL_T1	0	0	0	0	0	0	-2.27	-2.22	0	0	0	0	0	0
3/7/2025 15:56	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/7/2025 15:57	20601	GRWO_T2	1	40	39	0.1	0.21	0.11	-0.1	-0.1	0	0	0	0	0	0
3/7/2025 15:57	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/7/2025 15:57	20603	GRWO_T2	22	112	90	0.2	0.38	0.18	0	0	0	0	0	0	0	0
3/7/2025 15:58	20601	GRWO_T2	1	40	39	0.1	0.21	0.11	-0.1	-0.1	0	0	0	0	0	0
3/7/2025 15:58	15203	SFAR_T2	15	10	-5	0.23	0.16	-0.07	-1.4	-1.36	0	0	0	0	0	0
3/7/2025 15:58	20603	GRWO_T2	22	112	90	0.2	0.38	0.18	0	0	0	0	0	0	0	0
3/7/2025 16:00	11405	FARM_T1	29	0	-29	0.12	0	-0.12	0	0	0	0	0	0	0	0
3/7/2025 16:02	11203	ELHE_T1	0	0	0	0	0	0	0.89	0.85	0	0	0	0	0	0
3/7/2025 16:02	11405	FARM_T1	29	0	-29	0.12	0	-0.12	-1.24	-1.21	1	1	0	1200	1200	0
3/7/2025 16:03	23401	HONE_T2	0	1	1	0	0	0	-0.43	-0.43	0	0	0	0	0	0
3/7/2025 16:05	23401	HONE_T2	0	1	1	0	0	0	-0.43	-0.43	0	0	0	0	0	0
3/7/2025 16:06	22602	KIMB_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/7/2025 16:06	12701	MACU_T1	0	2	2	0	0.1	0.1	-1.16	-1.17	1	1	0	1200	1200	0
3/7/2025 16:06	22601	KIMB_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
3/7/2025 16:07	57201	ROSS_T1	27	28	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
3/7/2025 16:07	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 16:07	57205	ROSS_T1	6	5	-1	0.52	0.44	-0.08	0	0	0	0	0	0	0	0
3/7/2025 16:08	12701	MACU_T1	0	2	2	0	0.1	0.1	-1.17	-1.15	1	1	0	1200	1200	0
3/7/2025 16:17	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 16:18	46903	MNTG_T2	0	53	53	0	0.14	0.14	-0.77	-0.78	1	1	0	600	600	0
3/7/2025 16:19	53903	HALI_T2	3	2	-1	1.23	1.6	0.37	0	0	0	0	0	0	0	0
3/7/2025 16:19	53902	HALI_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/7/2025 16:19	53901	HALI_T2	1	1	0	1	1	0	-1.01	-1.04	0	0	0	0	0	0
3/7/2025 16:21	47102	MARL_T2	5	6	1	0.22	0.28	0.06	0	0	0	0	0	0	0	0
3/7/2025 16:21	58401	MORO_T1	0	0	0	0	0	0	-2.38	-2.44	2	2	0	1200	1200	0
3/7/2025 16:21	47103	MARL_T2	2	2	0	0.35	0.35	0	-0.52	-0.54	0	0	0	0	0	0
3/7/2025 16:22	46903	MNTG_T2	0	53	53	0	0.14	0.14	0	0	0	0	0	0	0	0
3/7/2025 16:22	46901	MNTG_T2	0	0	0	0	0	0	0.86	0.87	0	0	0	0	0	0
3/7/2025 16:30	60404	DILL_T2	0	0	0	0	0	0	0.62	0.66	0	0	0	0	0	0
3/7/2025 16:31	60404	DILL_T2	0	0	0	0	0	0	0.62	0.66	0	0	0	0	0	0
3/7/2025 16:34	12705	MACU_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/7/2025 16:34	12703	MACU_T2	2	2	0	0.75	0.8	0.05	-1.13	-1.16	0	0	0	0	0	0
3/7/2025 16:35	54505	ENOL_T2	1	1	0	1.1	0.9	-0.2	0	0	0	0	0	0	0	0
3/7/2025 16:35	54502	ENOL_T2	0	0	0	0	0	0	-1.42	-1.4	0	0	0	0	0	0
3/7/2025 16:36	12703	MACU_T2	2	2	0	0.75	0.8	0.05	-1.13	-1.16	0	0	0	0	0	0
3/7/2025 16:36	12705	MACU_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/7/2025 16:38	10101	ALLE_T3	3	8	5	1.87	5.25	3.38	0	0	0	0	0	0	0	0
3/7/2025 16:38	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 16:40	10101	ALLE_T3	3	8	5	1.87	5.25	3.38	0	0	0	0	0	0	0	0
3/7/2025 16:40	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 16:44	12705	MACU_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/7/2025 16:44	12703	MACU_T2	2	2	0	0.75	0.8	0.05	-1.16	-1.12	0	0	0	0	0	0
3/7/2025 16:46	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/7/2025 16:46	63801	HEMP_T1	0	0	0	0	0	0	0.44	-0.21	0	0	0	0	0	0
3/7/2025 16:49	65502	MOJO_T2	0	0	0	0	0	0	-0.69	-0.8	0	0	0	0	0	0
3/7/2025 16:49	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/7/2025 16:49	52402	GRPA_T2	5	4	-1	0.96	0.85	-0.11	0	0	0	0	0	0	0	0
3/7/2025 16:49	52403	GRPA_T2	1	0	-1	0.8	0	-0.8	-0.46	-0.43	0	0	0	0	0	0
3/7/2025 16:49	52404	GRPA_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/7/2025 16:52	65502	MOJO_T2	0	0	0	0	0	0	-0.8	-0.88	0	0	0	0	0	0
3/7/2025 17:06	64701	LITI_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
3/7/2025 17:06	57205	ROSS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/7/2025 17:06	57201	ROSS_T1	13	13	0	0.13	0.17	0.04	-0.91	-0.95	0	0	0	0	0	0
3/7/2025 17:07	59402	RFLD_T2	0	0	0	0	0	0	-0.92	-0.94	1	1	0	450	450	0
3/7/2025 17:08	42601	TUSC_T1	1	1	0	0.1	0.1	0	-0.47	-0.55	1	1	0	1200	1200	0
3/7/2025 17:09	54206	PENN_T2	0	0	0	0	0	0	-0.09	-0.04	0	0	0	0	0	0
3/7/2025 17:10	54206	PENN_T2	0	0	0	0	0	0	-0.17	-0.09	0	0	0	0	0	0
3/7/2025 17:11	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 17:11	51102	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 17:11	51101	CARL_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
3/7/2025 17:26	22601	KIMB_T1	0	0	0	0	0	0	0.12	0.3	0	0	0	0	0	0
3/7/2025 17:28	11203	ELHE_T1	0	0	0	0	0	0	0.78	0.79	0	0	0	0	0	0
3/7/2025 17:31	67603	WARW_T1	0	8	8	0	0.3	0.3	-0.02	-0.06	0	0	0	0	0	0
3/7/2025 17:35	67603	WARW_T1	0	8	8	0	0.3	0.3	-0.02	-0.06	0	0	0	0	0	0
3/7/2025 18:39	67901	WNHO_T2	0	0	0	0	0	0	-0.37	-0.34	1	1	0	900	900	0
3/7/2025 18:50	61506	EPET_T2	0	0	0	0	0	0	-0.09	-0.03	0	0	0	0	0	0
3/7/2025 18:54	53803	MBRG_T2	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
3/7/2025 18:54	22101	EDEL_T2	0	0	0	0	0	0	0.43	0.43	1	1	0	1200	1200	0
3/7/2025 18:57	53802	MBRG_T2	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
3/7/2025 19:10	52403	GRPA_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
3/7/2025 19:10	52402	GRPA_T2	4	4	0	0.38	1.1	0.72	0	0	0	0	0	0	0	0
3/7/2025 19:10	52404	GRPA_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/7/2025 19:10	14802	TREI_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
3/7/2025 19:19	40502	CRES_T2	27	26	-1	0.53	0.55	0.02	0.06	0.06	0	0	0	0	0	0
3/7/2025 19:19	40501	CRES_T2	8	5	-3	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
3/7/2025 19:23	67605	WARW_T1	1	0	-1	0.1	0	-0.1	-0.8	-0.79	0	0	0	0	0	0
3/7/2025 19:32	61502	EPET_T1	0	0	0	0	0	0	-1.2	-1.16	0	0	0	0	0	0
3/7/2025 19:36	50502	MECH_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
3/7/2025 19:36	50501	MECH_T1	0	0	0	0	0	0	-0.19	-0.48	0	0	0	0	0	0
3/7/2025 19:38	50501	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 19:38	50502	MECH_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
3/7/2025 19:49	46101	MACI_T2	0	0	0	0	0	0	-0.56	-0.56	1	1	0	1200	1200	0
3/7/2025 19:50	40501	CRES_T2	5	13	8	0.32	0.3	-0.02	0	0	0	0	0	0	0	0
3/7/2025 19:50	40502	CRES_T2	24	40	16	0.52	0.5	-0.02	0.07	0.06	0	0	0	0	0	0
3/7/2025 19:52	46004	BERW_T2	1	1	0	0.3	0.1	-0.2	-0.79	-0.8	0	0	0	0	0	0
3/7/2025 19:56	17002	RIRO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 19:58	12402	MILF_T1	1	8	7	0.2	0.23	0.03	-1.28	-1.29	0	0	0	0	0	0
3/7/2025 19:58	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
3/7/2025 19:58	66902	SHIL_T2	0	0	0	0	0	0	-1.01	-1.03	0	0	0	0	0	0
3/7/2025 19:59	46002	BERW_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
3/7/2025 19:59	21206	ECAR_T2	2	1	-1	7.65	8.5	0.85	1.21	1.18	0	0	0	0	0	0
3/7/2025 19:59	60801	BUCK_T1	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
3/7/2025 19:59	21204	ECAR_T2	5	5	0	2.28	0.67	-1.61	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/7/2025 20:00	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
3/7/2025 20:00	61304	EARL_T1	36	143	107	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/7/2025 20:00	64203	KINZ_T1	0	0	0	0	0	0	0.22	0.22	0	0	0	0	0	0
3/7/2025 20:00	67502	WEWI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/7/2025 20:00	64201	KINZ_T1	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
3/7/2025 20:00	63601	LETO_T1	0	4	4	0	0.15	0.15	0.9	0.8	1	1	0	900	900	0
3/7/2025 20:00	64204	KINZ_T1	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/7/2025 20:00	61306	EARL_T1	0	11	11	0	0.14	0.14	0.01	0.01	0	0	0	0	0	0
3/7/2025 20:00	50701	SMEC_T1	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
3/7/2025 20:01	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/7/2025 20:01	60301	TWVA_T2	0	0	0	0	0	0	-0.38	-1.08	0	1	1	0	600	600
3/7/2025 20:01	64401	LAND_T1	0	0	0	0	0	0	-1.2	-1.18	1	1	0	600	600	0
3/7/2025 20:01	64801	MONE_T2	156	165	9	0.45	0.8	0.35	83.96	83.96	0	0	0	0	0	0
3/7/2025 20:01	57401	SPAN_T1	2	2	0	0.65	0.9	0.25	-0.22	-0.22	1	1	0	600	600	0
3/7/2025 20:01	63602	LETO_T1	0	0	0	0	0	0	-0.62	-0.58	0	0	0	0	0	0
3/7/2025 20:01	65502	MOJO_T2	0	6	6	0	0.1	0.1	-1	-1.01	0	0	0	0	0	0
3/7/2025 20:01	63601	LETO_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/7/2025 20:01	41902	REED_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:01	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:01	65503	MOJO_T2	0	0	0	0	0	0	-0.24	-0.2	0	0	0	0	0	0
3/7/2025 20:01	41901	REED_T1	1	5	4	0.2	0.2	0	0	0	0	0	0	0	0	0
3/7/2025 20:01	17802	GILB_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
3/7/2025 20:01	64802	MONE_T2	39	82	43	0.22	0.35	0.13	0	0	0	0	0	0	0	0
3/7/2025 20:01	67402	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:01	64701	LITI_T1	0	0	0	0	0	0	0.19	0.17	0	0	0	0	0	0
3/7/2025 20:01	63501	HEID_TBK1-2	6	16	10	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
3/7/2025 20:01	60404	DILL_T2	0	1	1	0	1.2	1.2	0.5	0.47	0	0	0	0	0	0
3/7/2025 20:02	63802	HEMP_T1	0	0	0	0	0	0	0.06	0.09	0	0	0	0	0	0
3/7/2025 20:02	10602	BLGL_T2	0	0	0	0	0	0	0.22	0.2	0	0	0	0	0	0
3/7/2025 20:02	20601	GRWO_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/7/2025 20:02	15201	SFAR_T1	0	0	0	0	0	0	-0.58	-0.57	2	2	0	2400	2400	0
3/7/2025 20:02	16302	ALPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:02	67106	SPRI_T2	0	0	0	0	0	0	-1.3	-1.3	1	1	0	900	900	0
3/7/2025 20:02	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/7/2025 20:02	17802	GILB_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
3/7/2025 20:02	12701	MACU_T1	0	0	0	0	0	0	-1.18	-1.14	1	1	0	1200	1200	0
3/7/2025 20:02	20603	GRWO_T2	16	30	14	0.21	0.32	0.11	0.44	0.38	0	0	0	0	0	0
3/7/2025 20:02	13303	ORVI_T1	0	0	0	0	0	0	0.78	0.77	0	0	0	0	0	0
3/7/2025 20:02	15203	SFAR_T2	0	0	0	0	0	0	-1.37	-1.36	0	0	0	0	0	0
3/7/2025 20:02	63804	HEMP_T1	1	1	0	6.2	5.7	-0.5	0	0	0	0	0	0	0	0
3/7/2025 20:02	12402	MILF_T1	2	8	6	0.15	0.23	0.08	0	0	0	0	0	0	0	0
3/7/2025 20:02	12401	MILF_T1	0	0	0	0	0	0	-0.42	-0.37	0	0	0	0	0	0
3/7/2025 20:03	61306	EARL_T1	0	11	11	0	0.14	0.14	0	0	0	0	0	0	0	0
3/7/2025 20:03	63804	HEMP_T1	1	1	0	6.2	5.7	-0.5	0	0	0	0	0	0	0	0
3/7/2025 20:03	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.14	0	0	0	0	0	0
3/7/2025 20:03	20403	ASHF_T2	0	0	0	0	0	0	0.35	0.28	0	0	0	0	0	0
3/7/2025 20:03	61304	EARL_T1	36	143	107	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/7/2025 20:03	64101	REFR_T1	0	0	0	0	0	0	-0.36	-0.34	0	0	0	0	0	0
3/7/2025 20:03	42503	ALTA_T2	0	0	0	0	0	0	0.39	0.41	0	0	0	0	0	0
3/7/2025 20:03	65502	MOJO_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:03	65207	PRIN_T4	2	4	2	2.95	1.8	-1.15	0	0	0	0	0	0	0	0
3/7/2025 20:03	40505	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:03	67402	WAKE_T2	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
3/7/2025 20:03	20401	ASHF_T2	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
3/7/2025 20:03	43802	SWIL_T1	0	0	0	0	0	0	-0.21	-0.21	1	1	0	600	600	0
3/7/2025 20:03	65206	PRIN_T4	1	1	0	0.9	0	-0.9	0	0	0	0	0	0	0	0
3/7/2025 20:03	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:03	66502	SMAN_T2	0	2	2	0	0.35	0.35	0.02	-0.05	0	0	0	0	0	0
3/7/2025 20:03	61701	ELIZ_T1	1	1	0	5.3	5.7	0.4	0.19	0.1	0	0	0	0	0	0
3/7/2025 20:03	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:03	61303	EARL_T1	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
3/7/2025 20:03	63802	HEMP_T1	0	0	0	0	0	0	0.06	0.09	0	0	0	0	0	0
3/7/2025 20:03	64902	MILL_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
3/7/2025 20:03	65503	MOJO_T2	0	0	0	0	0	0	-0.24	-0.2	0	0	0	0	0	0
3/7/2025 20:03	66505	SMAN_T2	3	3	0	2.17	1.93	-0.24	0	0	0	0	0	0	0	0
3/7/2025 20:03	45303	WBER_T2	7	8	1	0.43	0.48	0.05	-0.33	-0.27	0	0	0	0	0	0
3/7/2025 20:03	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:03	43801	SWIL_T1	9	12	3	0.78	0.68	-0.1	0	0	0	0	0	0	0	0
3/7/2025 20:03	44201	POIN_T1	1	21	20	0.1	0.18	0.08	-1.51	-1.52	1	1	0	1200	1200	0
3/7/2025 20:04	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:04	15203	SFAR_T2	0	0	0	0	0	0	-1.37	-1.36	0	0	0	0	0	0
3/7/2025 20:04	67106	SPRI_T2	0	0	0	0	0	0	-1.3	-1.3	1	1	0	900	900	0
3/7/2025 20:04	16302	ALPA_T2	0	0	0	0	0	0	0.57	0.57	0	0	0	0	0	0
3/7/2025 20:04	66901	SHIL_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
3/7/2025 20:04	10805	CHHI_T2	1	1	0	8.1	7.7	-0.4	-4.08	-3.83	3	3	0	1800	1800	0
3/7/2025 20:04	11301	EMMA_T1	0	0	0	0	0	0	-0.89	-0.85	0	0	0	0	0	0
3/7/2025 20:04	53903	HALI_T2	2	2	0	1.15	1.3	0.15	0	0	0	0	0	0	0	0
3/7/2025 20:04	11202	ELHE_T2	0	0	0	0	0	0	0.37	0.37	1	1	0	1200	1200	0
3/7/2025 20:04	15103	LIPHA_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
3/7/2025 20:04	64402	LAND_T2	0	0	0	0	0	0	-0.65	-0.61	1	1	0	600	600	0
3/7/2025 20:04	64401	LAND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:04	53902	HALI_T2	1	1	0	5.4	5.7	0.3	0	0	0	0	0	0	0	0
3/7/2025 20:04	20603	GRWO_T2	16	30	14	0.21	0.32	0.11	0	0	0	0	0	0	0	0
3/7/2025 20:04	54601	SUMM_T2	7	8	1	0.29	0.43	0.14	-1.8	-1.87	2	2	0	2100	2100	0
3/7/2025 20:04	61306	EARL_T1	0	11	11	0	0.14	0.14	0.01	0.01	0	0	0	0	0	0
3/7/2025 20:04	20103	AVOC_T1	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
3/7/2025 20:04	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:04	15204	SFAR_T2	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
3/7/2025 20:04	61001	DONV_T1	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
3/7/2025 20:04	10109	ALLE_T3	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/7/2025 20:04	40303	TAMA_T3	2	3	1	0.15	0.23	0.08	2.34	2.38	0	0	0	0	0	0
3/7/2025 20:04	57201	ROSS_T1	16	50	34	0.28	0.27	-0.01	-1.06	-1.11	0	0	0	0	0	0
3/7/2025 20:04	40302	TAMA_T3	13	21	8	0.52	0.49	-0.03	0	0	0	0	0	0	0	0
3/7/2025 20:04	20601	GRWO_T2	0	2	2	0	0.2	0.2	-0.15	-0.17	0	0	0	0	0	0
3/7/2025 20:04	10101	ALLE_T3	13	2	-11	1.63	6.6	4.97	0	0	0	0	0	0	0	0
3/7/2025 20:04	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:04	57203	ROSS_T1	0	1	1	0	0.1	0.1	-0.32	-0.31	0	0	0	0	0	0
3/7/2025 20:04	65702	RVIL_T2	0	0	0	0	0	0	-2	-2.04	0	0	0	0	0	0
3/7/2025 20:04	17401	FOHI_T1	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
3/7/2025 20:04	23203	HIRU_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
3/7/2025 20:04	40502	CRES_T2	25	40	15	0.46	0.5	0.04	0	0	0	0	0	0	0	0
3/7/2025 20:04	43402	BENT_T1	0	0	0	0	0	0	-0.96	-0.99	1	1	0	900	900	0
3/7/2025 20:04	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
3/7/2025 20:04	40301	TAMA_T3	1	3	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:04	61304	EARL_T1	36	143	107	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/7/2025 20:04	66502	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/7/2025 20:04	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:04	66504	SMAN_T2	0	0	0	0	0	0	-0.61	-0.68	0	0	0	0	0	0
3/7/2025 20:04	57205	ROSS_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
3/7/2025 20:04	54201	PENN_T1	10	13	3	0.8	0.82	0.02	0.12	0.09	0	0	0	0	0	0
3/7/2025 20:04	42701	AUGU_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/7/2025 20:04	15704	TANN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:04	23201	HIRU_T2	2	5	3	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
3/7/2025 20:04	61301	EARL_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
3/7/2025 20:04	61302	EARL_T1	0	0	0	0	0	0	1.08	1.01	1	1	0	600	600	0
3/7/2025 20:04	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:04	15701	TANN_T1	1	1	0	4.5	4.5	0	0	0	0	0	0	0	0	0
3/7/2025 20:04	40501	CRES_T2	5	13	8	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
3/7/2025 20:04	54203	PENN_T1	18	18	0	1.12	1.41	0.29	0	0	0	0	0	0	0	0
3/7/2025 20:04	14801	TREI_T2	0	0	0	0	0	0	1.02	1.06	0	0	0	0	0	0
3/7/2025 20:04	53901	HALI_T2	1	1	0	0.4	0.8	0.4	-0.95	-0.98	0	0	0	0	0	0
3/7/2025 20:04	66505	SMAN_T2	3	3	0	2.17	1.93	-0.24	0	0	0	0	0	0	0	0
3/7/2025 20:04	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:05	66502	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/7/2025 20:05	48302	ORWI_T2	2	2	0	1.5	1.8	0.3	-0.07	-0.08	0	0	0	0	0	0
3/7/2025 20:05	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:05	63501	HEID_TBK1-2	6	16	10	0.13	0.12	-0.01	1.14	1.14	0	0	0	0	0	0
3/7/2025 20:05	64802	MONE_T2	39	82	43	0.22	0.35	0.13	-0.01	-0.01	0	0	0	0	0	0
3/7/2025 20:05	23401	HONE_T2	4	1	-3	0.5	0.2	-0.3	-0.44	-0.47	0	0	0	0	0	0
3/7/2025 20:05	53901	HALI_T2	1	1	0	0.4	0.8	0.4	-0.95	-0.98	0	0	0	0	0	0
3/7/2025 20:05	48303	ORWI_T2	13	20	7	0.28	0.36	0.08	0	0	0	0	0	0	0	0
3/7/2025 20:05	64204	KINZ_T1	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/7/2025 20:05	50701	SMEC_T1	0	0	0	0	0	0	0.21	0.24	0	0	0	0	0	0
3/7/2025 20:05	66505	SMAN_T2	3	3	0	2.17	1.93	-0.24	0	0	0	0	0	0	0	0
3/7/2025 20:05	53902	HALI_T2	1	1	0	5.4	5.7	0.3	0	0	0	0	0	0	0	0
3/7/2025 20:05	57202	ROSS_T1	16	50	34	0.28	0.27	-0.01	-1.06	-1.11	0	0	0	0	0	0
3/7/2025 20:05	60701	BREC_T1	0	0	0	0	0	0	-0.64	-0.68	2	2	0	1200	1200	0
3/7/2025 20:05	46002	BERW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:05	64704	LITI_T1	0	0	0	0	0	0	-0.08	-0.13	1	1	0	600	600	0
3/7/2025 20:05	42501	ALTA_T2	0	0	0	0	0	0	0.02	0	1	1	0	600	600	0
3/7/2025 20:05	26401	INOR_T1	2	2	0	6.55	6.4	-0.15	0	0	0	0	0	0	0	0
3/7/2025 20:05	53903	HALI_T2	2	2	0	1.15	1.3	0.15	0	0	0	0	0	0	0	0
3/7/2025 20:05	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:05	64201	KINZ_T1	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
3/7/2025 20:05	64801	MONE_T2	156	165	9	0.45	0.8	0.35	0	0	0	0	0	0	0	0
3/7/2025 20:05	66504	SMAN_T2	0	0	0	0	0	0	-0.61	-0.68	0	0	0	0	0	0
3/7/2025 20:05	40101	HUNT_T2	0	0	0	0	0	0	-1.45	-1.44	0	0	0	0	0	0
3/7/2025 20:05	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:05	57203	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:05	46004	BERW_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/7/2025 20:05	26402	INOR_T1	0	0	0	0	0	0	-1.95	-1.94	1	1	0	600	600	0
3/7/2025 20:05	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
3/7/2025 20:06	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:06	65701	RVIL_T1	0	0	0	0	0	0	-0.32	-0.35	0	0	0	0	0	0
3/7/2025 20:06	66502	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/7/2025 20:06	12703	MACU_T2	2	2	0	0.55	0.45	-0.1	-1.11	-1.13	0	0	0	0	0	0
3/7/2025 20:06	42902	MIDD_T2	0	0	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
3/7/2025 20:06	65702	RVIL_T2	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
3/7/2025 20:06	14801	TREI_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
3/7/2025 20:06	64801	MONE_T2	156	165	9	0.45	0.8	0.35	83.96	83.96	0	0	0	0	0	0
3/7/2025 20:06	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:06	24102	EHAZ_T1	2	11	9	1.55	1.85	0.3	0	0	0	0	0	0	0	0
3/7/2025 20:06	24104	EHAZ_T1	0	0	0	0	0	0	-2.24	-2.23	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/7/2025 20:06	60201	ATGL_T2	0	3	3	0	0.17	0.17	-0.28	-0.3	0	0	0	0	0	0
3/7/2025 20:06	24101	EHAZ_T1	19	5	-14	0.66	0.1	-0.56	0	0	0	0	0	0	0	0
3/7/2025 20:06	20603	GRWO_T2	16	30	14	0.21	0.32	0.11	0	0	0	0	0	0	0	0
3/7/2025 20:06	51306	WIND_T2	0	0	0	0	0	0	0.13	0.16	0	0	0	0	0	0
3/7/2025 20:06	42501	ALTA_T2	0	0	0	0	0	0	0	0.04	2	2	0	1200	1200	0
3/7/2025 20:06	24105	EHAZ_T1	4	4	0	5.93	5.8	-0.13	0	0	0	0	0	0	0	0
3/7/2025 20:06	16101	BING_T2	0	2	2	0	0.1	0.1	0.43	0.44	0	0	0	0	0	0
3/7/2025 20:06	60701	BREC_T1	0	0	0	0	0	0	-2.04	-1.94	6	6	0	3600	3600	0
3/7/2025 20:06	54203	PENN_T1	18	18	0	1.12	1.41	0.29	0	0	0	0	0	0	0	0
3/7/2025 20:06	54201	PENN_T1	10	13	3	0.8	0.82	0.02	0.06	0.04	0	0	0	0	0	0
3/7/2025 20:06	42401	GIMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:06	67303	WYOM_T2	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
3/7/2025 20:06	10805	CHHI_T2	1	1	0	8.1	7.7	-0.4	0	0	0	0	0	0	0	0
3/7/2025 20:06	47401	PENS_T1	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
3/7/2025 20:06	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:06	44802	EDAN_T2	0	0	0	0	0	0	-0.94	-0.97	0	0	0	0	0	0
3/7/2025 20:06	20601	GRWO_T2	0	2	2	0	0.2	0.2	-0.17	-0.16	0	0	0	0	0	0
3/7/2025 20:06	44504	HAMI_T2	0	0	0	0	0	0	-1.29	-1.32	0	0	0	0	0	0
3/7/2025 20:06	16102	BING_T2	14	17	3	0.19	0.27	0.08	0	0	0	0	0	0	0	0
3/7/2025 20:06	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
3/7/2025 20:06	14802	TREI_T2	0	0	0	0	0	0	1.11	0.88	0	0	0	0	0	0
3/7/2025 20:06	44502	HAMI_T2	1	1	0	3	3.4	0.4	0	0	0	0	0	0	0	0
3/7/2025 20:06	42701	AUGU_T1	1	1	0	0.7	1	0.3	0	0	2	2	0	1800	1800	0
3/7/2025 20:06	15203	SFAR_T2	0	0	0	0	0	0	-4.11	-4.08	0	0	0	0	0	0
3/7/2025 20:06	16302	ALPA_T2	0	0	0	0	0	0	1.14	1.15	0	0	0	0	0	0
3/7/2025 20:06	16103	BING_T2	4	4	0	0.25	0.3	0.05	-1.75	-1.75	1	1	0	900	900	0
3/7/2025 20:06	57401	SPAN_T1	2	2	0	0.65	0.9	0.25	-0.22	-0.22	1	1	0	600	600	0
3/7/2025 20:06	64802	MONE_T2	39	82	43	0.22	0.35	0.13	0	0	0	0	0	0	0	0
3/7/2025 20:06	54501	ENOL_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
3/7/2025 20:06	66505	SMAN_T2	3	3	0	2.17	1.93	-0.24	-0.66	-0.61	1	1	0	900	900	0
3/7/2025 20:06	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/7/2025 20:06	67401	WAKE_T2	0	0	0	0	0	0	-1.23	-1.13	0	0	0	0	0	0
3/7/2025 20:07	61306	EARL_T1	0	11	11	0	0.14	0.14	0	0	0	0	0	0	0	0
3/7/2025 20:07	22003	BOHE_T1	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
3/7/2025 20:07	57203	ROSS_T1	0	1	1	0	0.1	0.1	-0.31	-0.29	0	0	0	0	0	0
3/7/2025 20:07	52403	GRPA_T2	3	6	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:07	55002	NEWP_T1	4	4	0	0.9	1.08	0.18	-0.44	-0.48	0	0	0	0	0	0
3/7/2025 20:07	23901	EFMO_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
3/7/2025 20:07	52402	GRPA_T2	4	4	0	1	0.98	-0.02	0	0	0	0	0	0	0	0
3/7/2025 20:07	65205	PRIN_T1	1	3	2	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
3/7/2025 20:07	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:07	59202	THOM_T1	344	465	121	0.37	0.54	0.17	0	0	0	0	0	0	0	0
3/7/2025 20:07	54201	PENN_T1	10	13	3	0.8	0.82	0.02	0	0	0	0	0	0	0	0
3/7/2025 20:07	24101	EHAZ_T1	19	5	-14	0.66	0.1	-0.56	0	0	0	0	0	0	0	0
3/7/2025 20:07	59201	THOM_T1	28	65	37	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
3/7/2025 20:07	65502	MOJO_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:07	24102	EHAZ_T1	2	11	9	1.55	1.85	0.3	-0.35	-0.32	0	0	0	0	0	0
3/7/2025 20:07	15703	TANN_T2	89	91	2	1.06	0.91	-0.15	0	0	0	0	0	0	0	0
3/7/2025 20:07	65702	RVIL_T2	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
3/7/2025 20:07	60701	BREC_T1	0	0	0	0	0	0	-0.68	-0.65	2	2	0	1200	1200	0
3/7/2025 20:07	54203	PENN_T1	18	18	0	1.12	1.41	0.29	0.55	0.56	0	0	0	0	0	0
3/7/2025 20:07	52502	PROG_T2	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
3/7/2025 20:07	24105	EHAZ_T1	4	4	0	5.93	5.8	-0.13	0	0	0	0	0	0	0	0
3/7/2025 20:07	53802	MBRG_T2	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
3/7/2025 20:07	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
3/7/2025 20:07	53901	HALI_T2	1	1	0	0.4	0.8	0.4	-0.98	-0.98	0	0	0	0	0	0
3/7/2025 20:07	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	-0.65	-0.66	1	1	0	600	600	0
3/7/2025 20:07	15702	TANN_T2	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
3/7/2025 20:07	58401	MORO_T1	0	0	0	0	0	0	-1.23	-1.25	1	1	0	600	600	0
3/7/2025 20:07	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:07	41301	FISH_T1	3	3	0	1.47	1.4	-0.07	0	0	0	0	0	0	0	0
3/7/2025 20:07	57401	SPAN_T1	2	2	0	0.65	0.9	0.25	-0.22	-0.21	1	1	0	600	600	0
3/7/2025 20:07	66505	SMAN_T2	3	3	0	2.17	1.93	-0.24	0	0	0	0	0	0	0	0
3/7/2025 20:07	50701	SMEC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:07	57404	SPAN_T2	0	0	0	0	0	0	-0.09	-0.1	1	1	0	1200	1200	0
3/7/2025 20:07	41202	KENM_T2	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
3/7/2025 20:07	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:07	64702	LITI_T2	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
3/7/2025 20:07	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/7/2025 20:07	57201	ROSS_T1	16	50	34	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
3/7/2025 20:07	66502	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/7/2025 20:07	65503	MOJO_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
3/7/2025 20:07	53902	HALI_T2	1	1	0	5.4	5.7	0.3	0	0	0	0	0	0	0	0
3/7/2025 20:07	66504	SMAN_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
3/7/2025 20:07	52501	PROG_T1	0	0	0	0	0	0	0.84	0.78	0	0	0	0	0	0
3/7/2025 20:07	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:07	53903	HALI_T2	2	2	0	1.15	1.3	0.15	0	0	0	0	0	0	0	0
3/7/2025 20:07	60201	ATGL_T2	0	3	3	0	0.17	0.17	-0.14	-0.15	0	0	0	0	0	0
3/7/2025 20:07	23401	HONE_T2	4	1	-3	0.5	0.2	-0.3	-0.47	-0.36	0	0	0	0	0	0
3/7/2025 20:07	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	-0.28	-0.31	0	0	0	0	0	0
3/7/2025 20:07	65202	PRIN_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
3/7/2025 20:07	61304	EARL_T1	36	143	107	0.2	0.23	0.03	-0.35	-0.33	0	0	0	0	0	0
3/7/2025 20:08	21204	ECAR_T2	5	4	-1	1.18	0.43	-0.75	0	0	0	0	0	0	0	0
3/7/2025 20:08	66505	SMAN_T2	3	3	0	2.17	1.93	-0.24	0	0	0	0	0	0	0	0
3/7/2025 20:08	21206	ECAR_T2	1	1	0	8.2	8.5	0.3	1.18	1.26	0	0	0	0	0	0
3/7/2025 20:08	15201	SFAR_T1	0	0	0	0	0	0	-0.28	-0.29	1	1	0	1200	1200	0
3/7/2025 20:08	55002	NEWP_T1	4	4	0	0.9	1.08	0.18	-0.22	-0.24	0	0	0	0	0	0
3/7/2025 20:08	40101	HUNT_T2	0	0	0	0	0	0	-1.44	-1.46	0	0	0	0	0	0
3/7/2025 20:08	67904	WNHO_T1	0	0	0	0	0	0	-1.2	-1.2	1	1	0	1200	1200	0
3/7/2025 20:08	16102	BING_T2	14	17	3	0.19	0.27	0.08	-0.15	-0.13	0	0	0	0	0	0
3/7/2025 20:08	50701	SMEC_T1	0	0	0	0	0	0	0.24	0.29	0	0	0	0	0	0
3/7/2025 20:08	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.33	0	0	0	0	0	0
3/7/2025 20:08	11405	FARM_T1	1	1	0	5	4.7	-0.3	0	0	0	0	0	0	0	0
3/7/2025 20:08	66502	SMAN_T2	0	2	2	0	0.35	0.35	-0.11	-0.1	0	0	0	0	0	0
3/7/2025 20:08	40502	CRES_T2	25	40	15	0.46	0.5	0.04	0.06	0.07	0	0	0	0	0	0
3/7/2025 20:08	42701	AUGU_T1	1	1	0	0.7	1	0.3	0	0	4	4	0	3600	3600	0
3/7/2025 20:08	44802	EDAN_T2	0	0	0	0	0	0	-0.94	-0.97	0	0	0	0	0	0
3/7/2025 20:08	52402	GRPA_T2	4	4	0	1	0.98	-0.02	0	0	0	0	0	0	0	0
3/7/2025 20:08	60701	BREC_T1	0	0	0	0	0	0	-1.36	-1.3	4	4	0	2400	2400	0
3/7/2025 20:08	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:08	10705	CATA_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
3/7/2025 20:08	11406	FARM_T1	1	1	0	1.4	0.7	-0.7	0	0	0	0	0	0	0	0
3/7/2025 20:08	16101	BING_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:08	67502	WEWI_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/7/2025 20:08	61301	EARL_T1	0	0	0	0	0	0	0.36	0.32	0	0	0	0	0	0
3/7/2025 20:08	63601	LETO_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/7/2025 20:08	51306	WIND_T2	0	0	0	0	0	0	0.16	0.1	0	0	0	0	0	0
3/7/2025 20:08	46903	MNTG_T2	0	0	0	0	0	0	-0.69	-0.68	1	1	0	600	600	0
3/7/2025 20:08	53501	EVIL_T2	1	1	0	0.3	0.6	0.3	-0.86	-0.84	1	1	0	600	600	0
3/7/2025 20:08	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	-0.65	-0.66	1	1	0	600	600	0
3/7/2025 20:08	40501	CRES_T2	5	13	8	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
3/7/2025 20:08	61306	EARL_T1	0	11	11	0	0.14	0.14	0	0	0	0	0	0	0	0
3/7/2025 20:08	57203	ROSS_T1	0	1	1	0	0.1	0.1	-0.31	-0.29	0	0	0	0	0	0
3/7/2025 20:08	45303	WBER_T2	7	8	1	0.43	0.48	0.05	-0.27	-0.26	0	0	0	0	0	0
3/7/2025 20:08	11302	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:08	10702	CATA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:08	67603	WARW_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
3/7/2025 20:08	52502	PROG_T2	0	8	8	0	0.11	0.11	-1.16	-1.2	2	2	0	1800	1800	0
3/7/2025 20:08	63602	LETO_T1	0	0	0	0	0	0	-0.58	-0.63	0	0	0	0	0	0
3/7/2025 20:08	59201	THOM_T1	28	65	37	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
3/7/2025 20:08	67605	WARW_T1	0	0	0	0	0	0	-2.5	-2.57	0	0	0	0	0	0
3/7/2025 20:08	57401	SPAN_T1	2	2	0	0.65	0.9	0.25	-0.22	-0.21	1	1	0	600	600	0
3/7/2025 20:08	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:08	57201	ROSS_T1	16	50	34	0.28	0.27	-0.01	-1.11	-1.05	0	0	0	0	0	0
3/7/2025 20:08	47101	MARL_T1	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/7/2025 20:08	66903	SHIL_T2	0	0	0	0	0	0	-1.28	-1.27	0	0	0	0	0	0
3/7/2025 20:08	67601	WARW_T2	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
3/7/2025 20:08	59202	THOM_T1	344	465	121	0.37	0.54	0.17	0	0	0	0	0	0	0	0
3/7/2025 20:08	15703	TANN_T2	89	91	2	1.06	0.91	-0.15	0	0	0	0	0	0	0	0
3/7/2025 20:08	41304	FISH_T2	1	1	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
3/7/2025 20:08	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/7/2025 20:08	61304	EARL_T1	36	143	107	0.2	0.23	0.03	-0.35	-0.33	0	0	0	0	0	0
3/7/2025 20:08	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	-0.28	-0.31	0	0	0	0	0	0
3/7/2025 20:08	52403	GRPA_T2	3	6	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:08	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:08	60201	ATGL_T2	0	3	3	0	0.17	0.17	-0.14	-0.15	0	0	0	0	0	0
3/7/2025 20:08	15204	SFAR_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
3/7/2025 20:08	16103	BING_T2	4	4	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
3/7/2025 20:08	18001	ZION_T1	2	2	0	9.25	9.35	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:08	43801	SWIL_T1	9	12	3	0.78	0.68	-0.1	0	0	0	0	0	0	0	0
3/7/2025 20:08	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:08	15702	TANN_T2	0	0	0	0	0	0	-0.35	-0.35	0	0	0	0	0	0
3/7/2025 20:09	22602	KIMB_T1	1	1	0	0.3	0.1	-0.2	0.12	0.13	0	0	0	0	0	0
3/7/2025 20:09	52403	GRPA_T2	3	6	3	0.1	0.2	0.1	-0.54	-0.54	0	0	0	0	0	0
3/7/2025 20:09	61306	EARL_T1	0	11	11	0	0.14	0.14	0.01	0.02	0	0	0	0	0	0
3/7/2025 20:09	65702	RVIL_T2	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
3/7/2025 20:09	42903	MIDD_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
3/7/2025 20:09	66505	SMAN_T2	3	3	0	2.17	1.93	-0.24	-1.33	-1.22	2	2	0	1800	1800	0
3/7/2025 20:09	57203	ROSS_T1	0	1	1	0	0.1	0.1	-0.31	-0.29	0	0	0	0	0	0
3/7/2025 20:09	53902	HALI_T2	1	1	0	5.4	5.7	0.3	0	0	0	0	0	0	0	0
3/7/2025 20:09	46802	HEPB_T1	0	1	1	0	0.4	0.4	-0.3	-0.28	0	0	0	0	0	0
3/7/2025 20:09	44502	HAMI_T2	1	1	0	3	3.4	0.4	0	0	0	0	0	0	0	0
3/7/2025 20:09	67303	WYOM_T2	0	0	0	0	0	0	0.25	0.22	0	0	0	0	0	0
3/7/2025 20:09	40901	JESH_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/7/2025 20:09	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:09	53903	HALI_T2	2	2	0	1.15	1.3	0.15	0	0	0	0	0	0	0	0
3/7/2025 20:09	42902	MIDD_T2	0	0	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
3/7/2025 20:09	57401	SPAN_T1	2	2	0	0.65	0.9	0.25	-0.44	-0.42	2	2	0	1200	1200	0
3/7/2025 20:09	54601	SUMM_T2	7	8	1	0.29	0.43	0.14	-3.73	-3.74	4	4	0	4200	4200	0
3/7/2025 20:09	40902	JESH_T1	0	0	0	0	0	0	-1.49	-1.47	1	1	0	600	600	0
3/7/2025 20:09	54206	PENN_T2	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
3/7/2025 20:09	45802	HEGI_T2	47	46	-1	0.64	0.76	0.12	0	0	0	0	0	0	0	0
3/7/2025 20:09	60201	ATGL_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/7/2025 20:09	57201	ROSS_T1	16	50	34	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
3/7/2025 20:09	40505	CRES_T1	0	0	0	0	0	0	0.6	0.52	0	0	0	0	0	0
3/7/2025 20:09	61304	EARL_T1	36	143	107	0.2	0.23	0.03	-0.35	-0.33	0	0	0	0	0	0
3/7/2025 20:09	51301	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:09	66503	SMAN_T2	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
3/7/2025 20:09	66502	SMAN_T2	0	2	2	0	0.35	0.35	0.05	-0.05	0	0	0	0	0	0
3/7/2025 20:09	59202	THOM_T1	344	465	121	0.37	0.54	0.17	0	0	0	0	0	0	0	0
3/7/2025 20:09	53901	HALI_T2	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/7/2025 20:09	43202	MVIL_T2	0	12	12	0	0.18	0.18	-0.72	-0.7	0	0	0	0	0	0
3/7/2025 20:09	60701	BREC_T1	0	0	0	0	0	0	-0.68	-0.65	2	2	0	1200	1200	0
3/7/2025 20:09	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:09	42501	ALTA_T2	0	0	0	0	0	0	0	0.02	1	1	0	600	600	0
3/7/2025 20:09	52402	GRPA_T2	4	4	0	1	0.98	-0.02	0	0	0	0	0	0	0	0
3/7/2025 20:09	47103	MARL_T2	1	14	13	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/7/2025 20:09	47102	MARL_T2	13	15	2	0.18	0.34	0.16	0	0	0	0	0	0	0	0
3/7/2025 20:09	53801	MBRG_T2	0	0	0	0	0	0	-0.6	-0.62	0	0	0	0	0	0
3/7/2025 20:09	61302	EARL_T1	0	0	0	0	0	0	1.01	1.04	1	1	0	600	600	0
3/7/2025 20:09	63501	HEID_TBK1-2	6	16	10	0.13	0.12	-0.01	0.76	0.74	0	0	0	0	0	0
3/7/2025 20:09	59201	THOM_T1	28	65	37	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
3/7/2025 20:09	58102	NEKI_T1	1	1	0	1.3	1.5	0.2	-0.03	-0.04	0	0	0	0	0	0
3/7/2025 20:09	67605	WARW_T1	0	0	0	0	0	0	-0.83	-0.86	0	0	0	0	0	0
3/7/2025 20:09	64704	LITI_T1	0	0	0	0	0	0	-0.13	-0.05	1	1	0	600	600	0
3/7/2025 20:09	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/7/2025 20:09	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/7/2025 20:09	55002	NEWP_T1	4	4	0	0.9	1.08	0.18	-0.22	-0.24	0	0	0	0	0	0
3/7/2025 20:09	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:09	44505	HAMI_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
3/7/2025 20:09	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	-0.65	-0.66	1	1	0	600	600	0
3/7/2025 20:10	41002	LAUR_T2	1	3	2	0.9	0.47	-0.43	-0.9	-0.96	0	0	0	0	0	0
3/7/2025 20:10	15203	SFAR_T2	0	0	0	0	0	0	-8.16	-7.98	0	0	0	0	0	0
3/7/2025 20:10	53903	HALI_T2	2	2	0	1.15	1.3	0.15	0	0	0	0	0	0	0	0
3/7/2025 20:10	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	-0.28	-0.31	0	0	0	0	0	0
3/7/2025 20:10	44302	BEAV_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
3/7/2025 20:10	23901	ERMO_T2	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
3/7/2025 20:10	52402	GRPA_T2	4	4	0	1	0.98	-0.02	0	0	0	0	0	0	0	0
3/7/2025 20:10	43202	MVIL_T2	0	12	12	0	0.18	0.18	-0.72	-0.7	0	0	0	0	0	0
3/7/2025 20:10	10101	ALLE_T3	13	2	-11	1.63	6.6	4.97	0	0	0	0	0	0	0	0
3/7/2025 20:10	54601	SUMM_T2	7	8	1	0.29	0.43	0.14	-3.73	-3.74	4	4	0	4200	4200	0
3/7/2025 20:10	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:10	22602	KIMB_T1	1	1	0	0.3	0.1	-0.2	0.12	0.13	0	0	0	0	0	0
3/7/2025 20:10	45502	DERR_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
3/7/2025 20:10	67203	TEHI_T1	0	0	0	0	0	0	2.05	1.91	0	0	0	0	0	0
3/7/2025 20:10	64402	LAND_T2	0	0	0	0	0	0	-0.61	-0.62	1	1	0	600	600	0
3/7/2025 20:10	66502	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/7/2025 20:10	10805	CHHI_T2	1	1	0	8.1	7.7	-0.4	0	0	0	0	0	0	0	0
3/7/2025 20:10	50701	SMEC_T1	0	0	0	0	0	0	0.24	0.29	0	0	0	0	0	0
3/7/2025 20:10	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:10	52403	GRPA_T2	3	6	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:10	23401	HONE_T2	4	1	-3	0.5	0.2	-0.3	-0.47	-0.36	0	0	0	0	0	0
3/7/2025 20:10	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
3/7/2025 20:10	66505	SMAN_T2	3	3	0	2.17	1.93	-0.24	-0.66	-0.61	1	1	0	900	900	0
3/7/2025 20:10	20601	GRWO_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/7/2025 20:10	54201	PENN_T1	10	13	3	0.8	0.82	0.02	0	0	0	0	0	0	0	0
3/7/2025 20:10	10109	ALLE_T3	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/7/2025 20:10	65702	RVIL_T2	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
3/7/2025 20:10	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:10	63805	GREE_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/7/2025 20:10	14802	TREI_T2	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
3/7/2025 20:10	55002	NEWP_T1	4	4	0	0.9	1.08	0.18	-0.22	-0.24	0	0	0	0	0	0
3/7/2025 20:10	59202	THOM_T1	344	465	121	0.37	0.54	0.17	0	0	0	0	0	0	0	0
3/7/2025 20:10	41001	LAUR_T2	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
3/7/2025 20:10	63804	HEMP_T1	1	1	0	6.2	5.7	-0.5	0	0	0	0	0	0	0	0
3/7/2025 20:10	20603	GRWO_T2	16	30	14	0.21	0.32	0.11	0.38	0.43	0	0	0	0	0	0
3/7/2025 20:10	63802	HEMP_T1	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
3/7/2025 20:10	54203	PENN_T1	18	18	0	1.12	1.41	0.29	0.55	0.56	0	0	0	0	0	0
3/7/2025 20:10	12701	MACU_T1	0	0	0	0	0	0	-1.14	-1.17	1	1	0	1200	1200	0
3/7/2025 20:10	53501	EVIL_T2	1	1	0	0.3	0.6	0.3	-0.86	-0.84	1	1	0	600	600	0
3/7/2025 20:10	59201	THOM_T1	28	65	37	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
3/7/2025 20:10	53601	DALM_T2	0	1	1	0	0.2	0.2	-0.22	-0.21	0	0	0	0	0	0
3/7/2025 20:10	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:10	53902	HALI_T2	1	1	0	5.4	5.7	0.3	0	0	0	0	0	0	0	0
3/7/2025 20:10	57401	SPAN_T1	2	2	0	0.65	0.9	0.25	-0.22	-0.21	1	1	0	600	600	0
3/7/2025 20:10	67201	TEHI_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:10	53901	HALI_T2	1	1	0	0.4	0.8	0.4	-1.96	-1.96	0	0	0	0	0	0
3/7/2025 20:10	10801	CHHI_T1	0	0	0	0	0	0	-4.34	-4.4	6	6	0	4200	4200	0
3/7/2025 20:10	55001	NEWP_T1	0	1	1	0	0.2	0.2	-0.47	-0.41	0	0	0	0	0	0
3/7/2025 20:10	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:10	66504	SMAN_T2	0	0	0	0	0	0	-1.35	-1.35	0	0	0	0	0	0
3/7/2025 20:10	52204	DEVO_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
3/7/2025 20:10	44801	EDAN_T2	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
3/7/2025 20:10	63302	GREE_T1	0	0	0	0	0	0	0.25	0.29	0	0	0	0	0	0
3/7/2025 20:10	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:10	40505	CRES_T1	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
3/7/2025 20:11	61306	EARL_T1	0	11	11	0	0.14	0.14	0	0	0	0	0	0	0	0
3/7/2025 20:11	40502	CRES_T2	25	40	15	0.46	0.5	0.04	0	0	0	0	0	0	0	0
3/7/2025 20:11	61304	EARL_T1	36	143	107	0.2	0.23	0.03	-0.35	-0.33	0	0	0	0	0	0
3/7/2025 20:11	66903	SHIL_T2	0	0	0	0	0	0	-1.28	-1.27	0	0	0	0	0	0
3/7/2025 20:11	48302	ORWI_T2	2	2	0	1.5	1.8	0.3	-0.08	-0.08	0	0	0	0	0	0
3/7/2025 20:11	41001	LAUR_T2	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
3/7/2025 20:11	52501	PROG_T1	0	0	0	0	0	0	0.84	0.78	0	0	0	0	0	0
3/7/2025 20:11	42901	MIDD_T2	0	0	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
3/7/2025 20:11	40501	CRES_T2	5	13	8	0.36	0.3	-0.06	0	0	0	0	0	0	0	0
3/7/2025 20:11	44801	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:11	21203	ECAR_T1	3	3	0	3.23	0	-3.23	-0.51	-0.5	0	0	0	0	0	0
3/7/2025 20:11	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:11	48303	ORWI_T2	13	20	7	0.28	0.36	0.08	0	0	0	0	0	0	0	0
3/7/2025 20:11	64201	KINZ_T1	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
3/7/2025 20:11	63801	HEMP_T1	0	0	0	0	0	0	-0.3	-0.3	0	0	0	0	0	0
3/7/2025 20:11	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:11	54601	SUMM_T2	7	8	1	0.29	0.43	0.14	0	0	0	0	0	0	0	0
3/7/2025 20:11	61505	EPET_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:11	54603	SUMM_T2	0	0	0	0	0	0	-0.05	-0.14	1	1	0	900	900	0
3/7/2025 20:11	41304	FISH_T2	1	1	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
3/7/2025 20:11	60701	BREC_T1	0	0	0	0	0	0	-0.68	-0.65	2	2	0	1200	1200	0
3/7/2025 20:11	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:11	42701	AUGU_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/7/2025 20:11	46004	BERW_T2	1	1	0	0.1	0.1	0	-0.8	-0.84	0	0	0	0	0	0
3/7/2025 20:11	63804	HEMP_T1	1	1	0	6.2	5.7	-0.5	0	0	0	0	0	0	0	0
3/7/2025 20:11	54504	ENOL_T2	0	0	0	0	0	0	-1.11	-1.09	1	1	0	600	600	0
3/7/2025 20:11	64204	KINZ_T1	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/7/2025 20:11	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
3/7/2025 20:11	64203	KINZ_T1	0	0	0	0	0	0	0.22	0.17	0	0	0	0	0	0
3/7/2025 20:11	41002	LAUR_T2	1	3	2	0.9	0.47	-0.43	0	0	0	0	0	0	0	0
3/7/2025 20:12	59202	THOM_T1	344	465	121	0.37	0.54	0.17	0	0	0	0	0	0	0	0
3/7/2025 20:12	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
3/7/2025 20:12	10805	CHHI_T2	1	1	0	8.1	7.7	-0.4	-1.28	-1.35	1	1	0	600	600	0
3/7/2025 20:12	10801	CHHI_T1	0	0	0	0	0	0	-2.17	-2.2	3	3	0	2100	2100	0
3/7/2025 20:12	48302	ORWI_T2	2	2	0	1.5	1.8	0.3	0	0	0	0	0	0	0	0
3/7/2025 20:12	43402	BENT_T1	0	0	0	0	0	0	-1.98	-1.98	2	2	0	1800	1800	0
3/7/2025 20:12	40505	CRES_T1	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
3/7/2025 20:12	59201	THOM_T1	28	65	37	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
3/7/2025 20:12	66502	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/7/2025 20:12	40303	TAMA_T3	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
3/7/2025 20:12	67402	WAKE_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
3/7/2025 20:12	64702	LITI_T2	0	0	0	0	0	0	-0.83	-0.84	0	0	0	0	0	0
3/7/2025 20:12	54601	SUMM_T2	7	8	1	0.29	0.43	0.14	-1.87	-1.87	2	2	0	2100	2100	0
3/7/2025 20:12	65904	SAKR_T2	0	0	0	0	0	0	-1.9	-1.89	2	2	0	900	900	0
3/7/2025 20:12	44502	HAMI_T2	1	1	0	3	3.4	0.4	0	0	0	0	0	0	0	0
3/7/2025 20:12	48303	ORWI_T2	13	20	7	0.28	0.36	0.08	0.48	0.51	0	0	0	0	0	0
3/7/2025 20:12	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:12	55001	NEWP_T1	0	1	1	0	0.2	0.2	-0.47	-0.41	0	0	0	0	0	0
3/7/2025 20:12	40301	TAMA_T3	1	3	2	0	0.1	0.1	1.25	1.26	2	2	0	1800	1800	0
3/7/2025 20:12	66505	SMAN_T2	3	3	0	2.17	1.93	-0.24	0	0	0	0	0	0	0	0
3/7/2025 20:12	54603	SUMM_T2	0	0	0	0	0	0	-0.05	-0.14	1	1	0	900	900	0
3/7/2025 20:12	61803	EELI_T2	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
3/7/2025 20:12	60701	BREC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:12	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:12	55002	NEWP_T1	4	4	0	0.9	1.08	0.18	0	0	0	0	0	0	0	0
3/7/2025 20:12	58201	NEWV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:12	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:12	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:12	54501	ENOL_T2	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
3/7/2025 20:12	60801	BUCK_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
3/7/2025 20:12	57201	ROSS_T1	16	50	34	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
3/7/2025 20:12	44505	HAMI_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
3/7/2025 20:12	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:12	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:12	40302	TAMA_T3	13	21	8	0.52	0.49	-0.03	0	0	0	0	0	0	0	0
3/7/2025 20:12	45303	WBER_T2	7	8	1	0.43	0.48	0.05	-0.27	-0.26	0	0	0	0	0	0
3/7/2025 20:12	57401	SPAN_T1	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
3/7/2025 20:12	15203	SFAR_T2	0	0	0	0	0	0	-2.72	-2.66	0	0	0	0	0	0
3/7/2025 20:12	57203	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:12	67401	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:12	63804	HEMP_T1	1	1	0	6.2	5.7	-0.5	0.73	0.74	0	0	0	0	0	0
3/7/2025 20:12	57205	ROSS_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
3/7/2025 20:12	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:12	44802	EDAN_T2	0	0	0	0	0	0	-1.88	-1.94	0	0	0	0	0	0
3/7/2025 20:12	65901	SAKR_T2	1	1	0	9.3	10	0.7	0	0	0	0	0	0	0	0
3/7/2025 20:13	52101	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:13	58401	MORO_T1	0	0	0	0	0	0	-1.23	-1.25	1	1	0	600	600	0
3/7/2025 20:13	65503	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:13	67106	SPRI_T2	0	0	0	0	0	0	-1.3	-1.3	1	1	0	900	900	0
3/7/2025 20:13	67402	WAKE_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/7/2025 20:13	54206	PENN_T2	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
3/7/2025 20:13	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:13	52402	GRPA_T2	4	4	0	1	0.98	-0.02	0	0	0	0	0	0	0	0
3/7/2025 20:13	59202	THOM_T1	344	465	121	0.37	0.54	0.17	0	0	0	0	0	0	0	0
3/7/2025 20:13	42903	MIDD_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
3/7/2025 20:13	60701	BREC_T1	0	0	0	0	0	0	-0.68	-0.65	2	2	0	1200	1200	0
3/7/2025 20:13	64904	MILL_T1	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
3/7/2025 20:13	40601	PIGR_T1	2	8	6	0.1	0.13	0.03	-0.18	-0.22	0	0	0	0	0	0
3/7/2025 20:13	65502	MOJO_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:13	52403	GRPA_T2	3	6	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:13	51304	WIND_T2	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0	0
3/7/2025 20:13	57401	SPAN_T1	2	2	0	0.65	0.9	0.25	-0.22	-0.21	1	1	0	600	600	0
3/7/2025 20:13	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:13	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/7/2025 20:13	52401	GRPA_T2	0	0	0	0	0	0	-1.02	-0.97	0	0	0	0	0	0
3/7/2025 20:13	59201	THOM_T1	28	65	37	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
3/7/2025 20:13	66502	SMAN_T2	0	2	2	0	0.35	0.35	-0.05	-0.05	0	0	0	0	0	0
3/7/2025 20:13	64901	MILL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:13	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:13	64401	LAND_T1	0	0	0	0	0	0	-1.18	-1.18	1	1	0	600	600	0
3/7/2025 20:13	43801	SWIL_T1	9	12	3	0.78	0.68	-0.1	0	0	0	0	0	0	0	0
3/7/2025 20:13	53501	EVIL_T2	1	1	0	0.3	0.6	0.3	-0.86	-0.84	1	1	0	600	600	0
3/7/2025 20:13	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/7/2025 20:13	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:13	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:13	46102	MACI_T1	0	0	0	0	0	0	0.63	0.63	0	0	0	0	0	0
3/7/2025 20:13	43802	SWIL_T1	0	0	0	0	0	0	-0.21	-0.22	1	1	0	600	600	0
3/7/2025 20:13	53501	DERR_T2	0	0	0	0	0	0	-0.17	-0.19	2	2	0	1800	1800	0
3/7/2025 20:13	66505	SMAN_T2	3	3	0	2.17	1.93	-0.24	0	0	0	0	0	0	0	0
3/7/2025 20:13	44802	EDAN_T2	0	0	0	0	0	0	-0.94	-0.97	0	0	0	0	0	0
3/7/2025 20:13	52501	PROG_T1	0	0	0	0	0	0	0.84	0.78	0	0	0	0	0	0
3/7/2025 20:14	47101	MARL_T1	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/7/2025 20:14	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:14	66504	SMAN_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
3/7/2025 20:14	11405	FARM_T1	1	1	0	5	4.7	-0.3	-1.13	-1.13	1	1	0	1200	1200	0
3/7/2025 20:14	67401	WAKE_T2	0	0	0	0	0	0	-1.23	-1.13	0	0	0	0	0	0
3/7/2025 20:14	41301	FISH_T1	3	3	0	1.47	1.4	-0.07	-0.31	-0.32	0	0	0	0	0	0
3/7/2025 20:14	52403	GRPA_T2	3	6	3	0.1	0.2	0.1	-0.54	-0.54	0	0	0	0	0	0
3/7/2025 20:14	57401	SPAN_T1	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
3/7/2025 20:14	46801	HEPB_T2	2	3	1	0.6	0.43	-0.17	0.53	0.53	0	0	0	0	0	0
3/7/2025 20:14	41304	FISH_T2	1	1	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
3/7/2025 20:14	64101	REFR_T1	0	0	0	0	0	0	-0.68	-0.72	0	0	0	0	0	0
3/7/2025 20:14	60701	BREC_T1	0	0	0	0	0	0	-2.72	-2.59	8	8	0	4800	4800	0
3/7/2025 20:14	41902	REED_T1	0	2	2	0	0	0	1.02	0.91	0	0	0	0	0	0
3/7/2025 20:14	46803	HEPB_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/7/2025 20:14	45501	DERR_T2	0	0	0	0	0	0	-0.17	-0.19	2	2	0	1800	1800	0
3/7/2025 20:14	40901	JESH_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/7/2025 20:14	40902	JESH_T1	0	0	0	0	0	0	-1.49	-1.47	1	1	0	600	600	0
3/7/2025 20:14	57403	SPAN_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
3/7/2025 20:14	66502	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/7/2025 20:14	65502	MOJO_T2	0	6	6	0	0.1	0.1	-1.01	-1.08	0	0	0	0	0	0
3/7/2025 20:14	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/7/2025 20:14	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:14	18001	ZION_T1	2	2	0	9.25	9.35	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:14	16302	ALPA_T2	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
3/7/2025 20:14	10109	ALLE_T3	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/7/2025 20:14	44801	EDAN_T2	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
3/7/2025 20:14	54206	PENN_T2	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
3/7/2025 20:14	10101	ALLE_T3	13	2	-11	1.63	6.6	4.97	0	0	0	0	0	0	0	0
3/7/2025 20:14	52404	GRPA_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/7/2025 20:14	11406	FARM_T1	1	1	0	1.4	0.7	-0.7	0	0	0	0	0	0	0	0
3/7/2025 20:14	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:14	67201	TEHI_T1	0	2	2	0	0.1	0.1	0.6	0.64	0	0	0	0	0	0
3/7/2025 20:14	57201	ROSS_T1	16	50	34	0.28	0.27	-0.01	-1.11	-1.05	0	0	0	0	0	0
3/7/2025 20:14	57203	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:14	20603	GRWO_T2	16	30	14	0.21	0.32	0.11	0	0	0	0	0	0	0	0
3/7/2025 20:14	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:14	61702	ELIZ_T2	0	0	0	0	0	0	-0.83	-0.82	1	1	0	300	300	0
3/7/2025 20:14	53501	EVIL_T2	1	1	0	0.3	0.6	0.3	-1.72	-1.67	2	2	0	1200	1200	0
3/7/2025 20:14	66505	SMAN_T2	3	3	0	2.17	1.93	-0.24	0	0	0	0	0	0	0	0
3/7/2025 20:14	58401	MORO_T1	0	0	0	0	0	0	-1.23	-1.25	1	1	0	600	600	0
3/7/2025 20:14	20601	GRWO_T2	0	2	2	0	0.2	0.2	-0.17	-0.16	0	0	0	0	0	0
3/7/2025 20:14	52502	PROG_T2	0	8	8	0	0.11	0.11	-0.58	-0.6	1	1	0	900	900	0
3/7/2025 20:14	66501	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/7/2025 20:14	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:14	59402	RFLD_T2	0	0	0	0	0	0	-0.92	-0.93	1	1	0	450	450	0
3/7/2025 20:14	47104	MARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:14	52402	GRPA_T2	4	4	0	1	0.98	-0.02	0	0	0	0	0	0	0	0
3/7/2025 20:14	41901	REED_T1	1	5	4	0.2	0.2	0	0	0	0	0	0	0	0	0
3/7/2025 20:14	14802	TREI_T2	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
3/7/2025 20:15	58401	MORO_T1	0	0	0	0	0	0	-1.23	-1.25	1	1	0	600	600	0
3/7/2025 20:15	51101	CARL_T1	1	1	0	5.3	5.2	-0.1	0	0	0	0	0	0	0	0
3/7/2025 20:15	46901	MNTG_T2	0	0	0	0	0	0	0.16	0.23	0	0	0	0	0	0
3/7/2025 20:15	66502	SMAN_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
3/7/2025 20:15	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.18	0	0	0	0	0	0
3/7/2025 20:15	54601	SUMM_T2	6	7	1	0.45	0.47	0.02	0	0	0	0	0	0	0	0
3/7/2025 20:15	52402	GRPA_T2	4	4	0	0.98	0.98	0	0	0	0	0	0	0	0	0
3/7/2025 20:15	46004	BERW_T2	1	1	0	0.1	0.5	0.4	-0.8	-0.84	0	0	0	0	0	0
3/7/2025 20:15	58701	ROSE_T2	0	0	0	0	0	0	-0.31	-0.31	1	1	0	600	600	0
3/7/2025 20:15	51107	CARL_T1	16	15	-1	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
3/7/2025 20:15	52404	GRPA_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/7/2025 20:15	61306	EARL_T1	11	2	-9	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
3/7/2025 20:15	63501	HEID_TBK1-2	15	5	-10	0.12	0.12	0	0.76	0.74	0	0	0	0	0	0
3/7/2025 20:15	47201	FAXO_T2	0	0	0	0	0	0	-2.27	-2.28	1	1	0	1200	1200	0
3/7/2025 20:15	61304	EARL_T1	141	71	-70	0.23	0.2	-0.03	-0.35	-0.33	0	0	0	0	0	0
3/7/2025 20:15	57203	ROSS_T1	1	0	-1	0.1	0	-0.1	-0.31	-0.29	0	0	0	0	0	0
3/7/2025 20:15	66501	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/7/2025 20:15	51102	CARL_T1	24	3	-21	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
3/7/2025 20:15	53601	DALM_T2	1	1	0	0.1	0.2	0.1	-0.22	-0.21	0	0	0	0	0	0
3/7/2025 20:15	52403	GRPA_T2	6	0	-6	0.2	0	-0.2	-0.54	-0.54	0	0	0	0	0	0
3/7/2025 20:15	58302	NOTT_T1	0	0	0	0	0	0	-0.4	-0.45	1	1	0	1200	1200	0
3/7/2025 20:15	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:15	41002	LAUR_T2	3	9	6	0.37	0.27	-0.1	0	0	0	0	0	0	0	0
3/7/2025 20:15	66505	SMAN_T2	3	3	0	1.77	2.07	0.3	0	0	0	0	0	0	0	0
3/7/2025 20:15	66504	SMAN_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
3/7/2025 20:15	40505	CRES_T1	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0	0
3/7/2025 20:15	57201	ROSS_T1	49	19	-30	0.27	0.33	0.06	0	0	0	0	0	0	0	0
3/7/2025 20:15	41001	LAUR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/7/2025 20:16	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/7/2025 20:16	41901	REED_T1	5	2	-3	0.2	0.2	0	0	0	0	0	0	0	0	0
3/7/2025 20:16	58401	MORO_T1	0	0	0	0	0	0	-1.23	-1.25	1	1	0	600	600	0
3/7/2025 20:16	52404	GRPA_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/7/2025 20:16	11301	EMMA_T1	0	0	0	0	0	0	-0.85	-0.87	0	0	0	0	0	0
3/7/2025 20:16	66502	SMAN_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
3/7/2025 20:16	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:16	47102	MARL_T2	15	13	-2	0.34	0.24	-0.1	0	0	0	0	0	0	0	0
3/7/2025 20:16	47103	MARL_T2	14	4	-10	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
3/7/2025 20:16	66501	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/7/2025 20:16	53801	MBRG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:16	67901	WNHO_T2	0	1	1	0	0.1	0.1	-0.42	-0.38	1	1	0	900	900	0
3/7/2025 20:16	52401	GRPA_T2	0	0	0	0	0	0	-1.02	-0.97	0	0	0	0	0	0
3/7/2025 20:16	66504	SMAN_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
3/7/2025 20:16	66903	SHIL_T2	0	0	0	0	0	0	-1.28	-1.27	0	0	0	0	0	0
3/7/2025 20:16	52402	GRPA_T2	4	4	0	0.98	0.98	0	0	0	0	0	0	0	0	0
3/7/2025 20:16	41902	REED_T1	0	2	2	0	0.4	0.4	1.02	0.91	0	0	0	0	0	0
3/7/2025 20:16	52403	GRPA_T2	6	0	-6	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/7/2025 20:16	67605	WARW_T1	0	2	2	0	0.25	0.25	-0.83	-0.86	0	0	0	0	0	0
3/7/2025 20:16	66505	SMAN_T2	3	3	0	1.77	2.07	0.3	0	0	0	0	0	0	0	0
3/7/2025 20:17	53902	HALI_T2	1	1	0	5.7	5.5	-0.2	-0.27	-0.26	0	0	0	0	0	0
3/7/2025 20:17	52403	GRPA_T2	6	0	-6	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/7/2025 20:17	53901	HALI_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
3/7/2025 20:17	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:17	40901	JESH_T1	1	1	0	0.7	0.5	-0.2	0.21	0.16	0	0	0	0	0	0
3/7/2025 20:17	61304	EARL_T1	141	71	-70	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
3/7/2025 20:17	57401	SPAN_T1	2	2	0	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
3/7/2025 20:17	52402	GRPA_T2	4	4	0	0.98	0.98	0	0	0	0	0	0	0	0	0
3/7/2025 20:17	42601	TUSC_T1	8	8	0	0.13	0.11	-0.02	-0.56	-0.55	1	1	0	1200	1200	0
3/7/2025 20:17	20603	GRWO_T2	29	22	-7	0.32	0.24	-0.08	0	0	0	0	0	0	0	0
3/7/2025 20:17	52401	GRPA_T2	0	0	0	0	0	0	-1.02	-0.97	0	0	0	0	0	0
3/7/2025 20:17	61306	EARL_T1	11	2	-9	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
3/7/2025 20:17	20601	GRWO_T2	2	0	-2	0.2	0	-0.2	-0.17	-0.16	0	0	0	0	0	0
3/7/2025 20:17	53903	HALI_T2	2	2	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
3/7/2025 20:17	59202	THOM_T1	459	414	-45	0.54	0.42	-0.12	0	0	0	0	0	0	0	0
3/7/2025 20:17	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:17	52404	GRPA_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/7/2025 20:17	61301	EARL_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
3/7/2025 20:17	59201	THOM_T1	65	37	-28	0.42	0.49	0.07	0	0	0	0	0	0	0	0
3/7/2025 20:17	44201	POIN_T1	21	2	-19	0.18	0.1	-0.08	-1.52	-1.52	1	1	0	1200	1200	0
3/7/2025 20:17	46001	BERW_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
3/7/2025 20:18	41901	REED_T1	5	2	-3	0.2	0.2	0	0	0	0	0	0	0	0	0
3/7/2025 20:18	53901	HALI_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
3/7/2025 20:18	53501	EVIL_T2	1	1	0	0.6	0.5	-0.1	-0.86	-0.84	1	1	0	600	600	0
3/7/2025 20:18	42902	MIDD_T2	0	0	0	0	0	0	-0.69	-0.72	0	0	0	0	0	0
3/7/2025 20:18	43402	BENT_T1	0	0	0	0	0	0	-0.99	-0.99	1	1	0	900	900	0
3/7/2025 20:18	65303	NBRI_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
3/7/2025 20:18	53903	HALI_T2	2	2	0	1.3	1.2	-0.1	-0.15	-0.13	0	0	0	0	0	0
3/7/2025 20:18	41902	REED_T1	0	2	2	0	0.4	0.4	1.02	0.91	0	0	0	0	0	0
3/7/2025 20:18	53902	HALI_T2	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
3/7/2025 20:18	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:18	58401	MORO_T1	0	0	0	0	0	0	-2.46	-2.5	2	2	0	1200	1200	0
3/7/2025 20:18	67605	WARW_T1	0	2	2	0	0.25	0.25	-0.83	-0.86	0	0	0	0	0	0
3/7/2025 20:18	52402	GRPA_T2	4	4	0	0.98	0.98	0	0	0	0	0	0	0	0	0
3/7/2025 20:18	46901	MNTG_T2	0	0	0	0	0	0	0.16	0.23	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/7/2025 20:18	44802	EDAN_T2	0	0	0	0	0	0	-0.94	-0.97	0	0	0	0	0	0
3/7/2025 20:18	52403	GRPA_T2	6	0	-6	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/7/2025 20:18	52404	GRPA_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/7/2025 20:19	45501	DERR_T2	0	0	0	0	0	0	-0.33	-0.37	4	4	0	3600	3600	0
3/7/2025 20:19	52403	GRPA_T2	6	0	-6	0.2	0	-0.2	-0.54	-0.54	0	0	0	0	0	0
3/7/2025 20:19	63501	HEID_TBK1-2	15	5	-10	0.12	0.12	0	0.38	0.37	0	0	0	0	0	0
3/7/2025 20:19	52402	GRPA_T2	4	4	0	0.98	0.98	0	0	0	0	0	0	0	0	0
3/7/2025 20:19	50701	SMEC_T1	0	0	0	0	0	0	0.24	0.29	0	0	0	0	0	0
3/7/2025 20:19	52404	GRPA_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/7/2025 20:20	52402	GRPA_T2	4	4	0	0.98	0.98	0	0	0	0	0	0	0	0	0
3/7/2025 20:20	57201	ROSS_T1	49	19	-30	0.27	0.33	0.06	0	0	0	0	0	0	0	0
3/7/2025 20:20	57203	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/7/2025 20:20	52403	GRPA_T2	6	0	-6	0.2	0	-0.2	-0.54	-0.54	0	0	0	0	0	0
3/7/2025 20:20	52404	GRPA_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/7/2025 20:20	45501	DERR_T2	0	0	0	0	0	0	-0.17	-0.19	2	2	0	1800	1800	0
3/7/2025 20:20	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:20	47203	FAXO_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
3/7/2025 20:22	54502	ENOL_T2	0	0	0	0	0	0	-1.34	-1.33	0	0	0	0	0	0
3/7/2025 20:22	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/7/2025 20:24	42501	ALTA_T2	0	0	0	0	0	0	0.02	-0.01	1	1	0	600	600	0
3/7/2025 20:28	57401	SPAN_T1	2	2	0	0.9	0.75	-0.15	0	0	0	0	0	0	0	0
3/7/2025 20:28	57403	SPAN_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/7/2025 20:28	44301	BEAV_T2	0	0	0	0	0	0	-0.28	-0.27	1	1	0	600	600	0
3/7/2025 20:29	44301	BEAV_T2	0	0	0	0	0	0	-0.83	-0.82	3	3	0	1800	1800	0
3/7/2025 20:29	44302	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:30	44301	BEAV_T2	0	0	0	0	0	0	-0.28	-0.27	1	1	0	600	600	0
3/7/2025 20:31	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:31	44302	BEAV_T2	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
3/7/2025 20:37	21403	EXET_T2	0	0	0	0	0	0	-1.38	-1.4	0	0	0	0	0	0
3/7/2025 20:38	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 20:42	14102	TRUM_T2	1	1	0	3.9	3.4	-0.5	0	0	0	0	0	0	0	0
3/7/2025 20:42	14103	TRUM_T2	1	7	6	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/7/2025 20:57	61802	EELI_T2	0	1	1	0	0	0	-0.39	-0.38	0	0	0	0	0	0
3/7/2025 21:19	44802	EDAN_T2	0	0	0	0	0	0	-0.97	-0.95	0	0	0	0	0	0
3/7/2025 21:34	60404	DILL_T2	0	1	1	0	0	0	0.28	0.27	0	0	0	0	0	0
3/7/2025 21:42	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 23:13	66505	SMAN_T2	3	3	0	1.57	1.63	0.06	0	0	0	0	0	0	0	0
3/7/2025 23:13	66504	SMAN_T2	0	0	0	0	0	0	-0.8	-0.77	0	0	0	0	0	0
3/7/2025 23:25	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/2025 23:29	60701	BREC_T1	0	0	0	0	0	0	-0.46	-0.48	1	1	0	600	600	0
3/8/2025 0:13	47403	PENS_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/8/2025 7:04	67901	WNHO_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/8/2025 7:27	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 7:28	40504	CRES_T1	0	0	0	0	0	0	-0.64	-0.68	0	0	0	0	0	0
3/8/2025 7:29	40505	CRES_T1	0	0	0	0	0	0	0.31	0.23	0	0	0	0	0	0
3/8/2025 7:34	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 7:40	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 7:45	45501	DERR_T2	3	2	-1	0.43	0.7	0.27	-0.57	-0.58	2	2	0	1800	1800	0
3/8/2025 7:46	45501	DERR_T2	3	2	-1	0.43	0.7	0.27	-0.57	-0.58	2	2	0	1800	1800	0
3/8/2025 8:05	48301	ORWI_T1	2	2	0	5.1	5	-0.1	-0.09	-0.11	0	0	0	0	0	0
3/8/2025 8:11	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 8:13	44801	EDAN_T2	10	11	1	0.68	0.87	0.19	-0.14	-0.18	0	0	0	0	0	0
3/8/2025 8:14	44801	EDAN_T2	10	11	1	0.68	0.87	0.19	-0.14	-0.18	0	0	0	0	0	0
3/8/2025 8:18	53501	EVIL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/8/2025 8:19	63501	HEID_TBK1-2	45	18	-27	0.35	0.21	-0.14	-1.39	-0.65	3	3	0	2700	2700	0
3/8/2025 8:20	63501	HEID_TBK1-2	45	18	-27	0.35	0.21	-0.14	-0.46	-0.22	1	1	0	900	900	0
3/8/2025 8:24	45902	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 8:27	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/8/2025 8:27	44801	EDAN_T2	9	13	4	0.72	1	0.28	-0.18	-0.15	0	0	0	0	0	0
3/8/2025 8:27	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 8:28	44301	BEAV_T2	0	2	2	0	0.65	0.65	0	0	0	0	0	0	0	0
3/8/2025 8:30	53501	EVIL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/8/2025 8:31	63501	HEID_TBK1-2	18	5	-13	0.21	0.32	0.11	-0.22	-0.27	1	1	0	900	900	0
3/8/2025 8:43	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 8:47	21203	ECAR_T1	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
3/8/2025 8:49	58402	MORO_T1	0	1	1	0	0	0	-0.77	-0.72	3	3	0	1950	1950	0
3/8/2025 8:51	58101	NEKI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/8/2025 8:51	58102	NEKI_T1	1	1	0	0.7	0.6	-0.1	-1.33	-1.23	1	1	0	1200	1200	0
3/8/2025 8:52	13303	ORVI_T1	4	4	0	0.18	0.13	-0.05	1.05	1.11	0	0	0	0	0	0
3/8/2025 8:53	58402	MORO_T1	0	1	1	0	0	0	-0.72	-0.3	3	2	-1	1950	1500	-450
3/8/2025 9:00	67502	WEWI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/8/2025 9:00	53901	HALI_T2	1	1	0	0.4	0.3	-0.1	-1.46	-1.43	0	0	0	0	0	0
3/8/2025 9:00	67503	WEWI_T2	0	0	0	0	0	0	-0.07	-0.11	0	0	0	0	0	0
3/8/2025 9:00	53902	HALI_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
3/8/2025 9:00	58101	NEKI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/8/2025 9:00	54601	SUMM_T2	0	1	1	0	0.1	0.1	-1.91	-1.9	2	2	0	2100	2100	0
3/8/2025 9:00	58102	NEKI_T1	1	1	0	0.6	0.6	0	-1.23	-1.32	1	1	0	1200	1200	0
3/8/2025 9:00	53903	HALI_T2	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
3/8/2025 9:00	40505	CRES_T1	0	0	0	0	0	0	0.27	0.31	0	0	0	0	0	0
3/8/2025 9:00	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 9:00	28102	TWLA_T2	0	0	0	0	0	0	0.27	0.24	0	0	0	0	0	0
3/8/2025 9:00	10602	BLGL_T2	0	1	1	0	0.5	0.5	0.24	0.23	0	0	0	0	0	0
3/8/2025 9:03	44901	SCOT_T2	0	6	6	0	0.23	0.23	-0.59	-0.45	0	0	0	0	0	0
3/8/2025 9:03	44902	SCOT_T2	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
3/8/2025 9:04	44901	SCOT_T2	0	6	6	0	0.23	0.23	-0.59	-0.45	0	0	0	0	0	0
3/8/2025 9:06	64204	KINZ_T1	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
3/8/2025 9:06	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 9:08	11203	ELHE_T1	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
3/8/2025 9:09	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 9:13	21203	ECAR_T1	0	0	0	0	0	0	-0.48	-0.45	0	0	0	0	0	0
3/8/2025 9:14	44801	EDAN_T2	9	32	23	0.67	0.55	-0.12	-0.13	-0.1	0	0	0	0	0	0
3/8/2025 9:15	23402	HONE_T2	3	0	-3	0.93	0	-0.93	0	0	0	0	0	0	0	0
3/8/2025 9:15	23401	HONE_T2	17	0	-17	0.45	0	-0.45	-0.68	-0.71	0	0	0	0	0	0
3/8/2025 9:16	16101	BING_T2	0	0	0	0	0	0	0.36	0.39	0	0	0	0	0	0
3/8/2025 9:16	63501	HEID_TBK1-2	9	92	83	0.24	0.29	0.05	-0.3	-0.23	1	1	0	900	900	0
3/8/2025 9:16	53501	EVIL_T2	2	2	0	0.6	0.1	-0.5	-0.16	-0.14	0	0	0	0	0	0
3/8/2025 9:17	63501	HEID_TBK1-2	9	92	83	0.24	0.29	0.05	-0.6	-0.46	2	2	0	1800	1800	0
3/8/2025 9:17	23402	HONE_T2	3	0	-3	0.93	0	-0.93	0	0	0	0	0	0	0	0
3/8/2025 9:17	23401	HONE_T2	17	0	-17	0.45	0	-0.45	-1.36	-1.42	0	0	0	0	0	0
3/8/2025 9:18	63501	HEID_TBK1-2	9	92	83	0.24	0.29	0.05	-0.3	-0.23	1	1	0	900	900	0
3/8/2025 9:18	63804	HEMP_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
3/8/2025 9:18	53501	EVIL_T2	2	2	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
3/8/2025 9:18	63801	HEMP_T1	0	1	1	0	0.1	0.1	-0.15	-0.21	0	0	0	0	0	0
3/8/2025 9:20	23402	HONE_T2	3	0	-3	0.93	0	-0.93	0	0	0	0	0	0	0	0
3/8/2025 9:20	23401	HONE_T2	17	0	-17	0.45	0	-0.45	-0.68	-0.71	0	0	0	0	0	0
3/8/2025 9:24	15704	TANN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 9:24	15701	TANN_T1	1	1	0	3.3	3.5	0.2	0	0	0	0	0	0	0	0
3/8/2025 9:24	14603	SWHI_T1	0	1	1	0	0.5	0.5	-0.97	-0.97	1	1	0	600	600	0
3/8/2025 9:26	14603	SWHI_T1	0	1	1	0	0.5	0.5	-1.94	-1.94	2	2	0	1200	1200	0
3/8/2025 9:30	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.63	-0.54	2	2	0	1800	1800	0
3/8/2025 9:30	16103	BING_T2	0	0	0	0	0	0	-1.12	-1.12	2	2	0	1500	1500	0
3/8/2025 9:31	45501	DERR_T2	0	1	1	0	0.1	0.1	-1.26	-1.08	4	4	0	3600	3600	0
3/8/2025 9:32	52402	GRPA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 9:32	52403	GRPA_T2	1	1	0	0.5	0	-0.5	-1.16	-1.17	0	0	0	0	0	0
3/8/2025 9:37	44801	EDAN_T2	32	0	-32	0.49	0	-0.49	0	0	0	0	0	0	0	0
3/8/2025 9:37	44802	EDAN_T2	0	0	0	0	0	0	-2.26	-2.23	0	0	0	0	0	0
3/8/2025 9:37	64101	REFR_T1	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
3/8/2025 9:40	44301	BEAV_T2	0	3	3	0	0.6	0.6	-0.61	-0.64	1	1	0	600	600	0
3/8/2025 9:40	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/8/2025 9:41	40201	BEGA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/8/2025 9:41	44301	BEAV_T2	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
3/8/2025 9:42	45501	DERR_T2	0	1	1	0	0.1	0.1	-1.08	-1.19	4	4	0	3600	3600	0
3/8/2025 9:43	45501	DERR_T2	0	1	1	0	0.1	0.1	-0.54	-0.6	2	2	0	1800	1800	0
3/8/2025 9:44	44301	BEAV_T2	0	3	3	0	0.6	0.6	-1.23	-1.28	2	2	0	1200	1200	0
3/8/2025 9:45	46004	BERW_T2	2	0	-2	0.8	0	-0.8	-0.8	-0.73	0	0	0	0	0	0
3/8/2025 9:46	44502	HAMI_T2	1	1	0	2.4	2.3	-0.1	0.04	0.04	0	0	0	0	0	0
3/8/2025 9:50	40602	PIGR_T1	1	0	-1	1.1	0	-1.1	-0.72	-0.73	1	1	0	600	600	0
3/8/2025 9:52	13302	ORVI_T2	8	8	0	0.19	0.37	0.18	0.99	1.03	0	0	0	0	0	0
3/8/2025 9:52	58401	MORO_T1	0	1	1	0	0.2	0.2	-1.13	-1.16	1	1	0	600	600	0
3/8/2025 9:52	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 9:54	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 9:54	58401	MORO_T1	0	1	1	0	0.2	0.2	-1.13	-1.16	1	1	0	600	600	0
3/8/2025 9:58	13302	ORVI_T2	8	8	0	0.19	0.37	0.18	0.99	1.03	0	0	0	0	0	0
3/8/2025 9:59	40501	CRES_T2	5	11	6	0.26	0.3	0.04	0	0	0	0	0	0	0	0
3/8/2025 10:00	11104	EGYP_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/8/2025 10:00	11103	EGYP_T1	0	0	0	0	0	0	-0.95	-0.93	0	0	0	0	0	0
3/8/2025 10:00	52001	LING_T1	0	0	0	0	0	0	-1.07	-1.05	0	0	0	0	0	0
3/8/2025 10:00	52003	LING_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
3/8/2025 10:01	52401	GRPA_T2	0	0	0	0	0	0	-0.99	-1.01	0	0	0	0	0	0
3/8/2025 10:01	64204	KINZ_T1	3	2	-1	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
3/8/2025 10:01	52403	GRPA_T2	1	4	3	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/8/2025 10:01	52402	GRPA_T2	2	0	-2	1.1	0	-1.1	0	0	0	0	0	0	0	0
3/8/2025 10:01	64202	KINZ_T1	0	1	1	0	2.5	2.5	0.7	0.67	0	0	0	0	0	0
3/8/2025 10:02	52402	GRPA_T2	2	0	-2	1.1	0	-1.1	0	0	0	0	0	0	0	0
3/8/2025 10:02	52403	GRPA_T2	1	4	3	0.3	0.2	-0.1	-1.16	-1.15	0	0	0	0	0	0
3/8/2025 10:03	52402	GRPA_T2	2	0	-2	1.1	0	-1.1	0	0	0	0	0	0	0	0
3/8/2025 10:03	52403	GRPA_T2	1	4	3	0.3	0.2	-0.1	-1.16	-1.15	0	0	0	0	0	0
3/8/2025 10:06	13302	ORVI_T2	4	6	2	0.1	0.7	0.6	0.99	1.03	0	0	0	0	0	0
3/8/2025 10:06	40602	PIGR_T1	0	0	0	0	0	0	-0.75	-0.73	1	1	0	600	600	0
3/8/2025 10:06	47403	PENS_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/8/2025 10:07	52102	MEIS_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/8/2025 10:08	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 10:08	58401	MORO_T1	0	1	1	0	0.2	0.2	-1.16	-1.14	1	1	0	600	600	0
3/8/2025 10:11	60801	BUCK_T1	0	1	1	0	0.4	0.4	-0.2	-0.19	0	0	0	0	0	0
3/8/2025 10:12	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 10:13	61304	EARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/8/2025 10:13	61302	EARL_T1	2	3	1	0.4	0.57	0.17	0	0	0	0	0	0	0	0
3/8/2025 10:13	61301	EARL_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
3/8/2025 10:14	45501	DERR_T2	1	6	5	0.1	0.32	0.22	-0.61	-0.66	2	2	0	1800	1800	0
3/8/2025 10:14	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 10:15	51101	CARL_T1	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
3/8/2025 10:15	45501	DERR_T2	0	6	6	0	0.52	0.52	-1.21	-1.32	4	4	0	3600	3600	0
3/8/2025 10:15	51102	CARL_T1	0	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/8/2025 10:15	61302	EARL_T1	3	2	-1	0.53	0.75	0.22	0	0	0	0	0	0	0	0
3/8/2025 10:15	61304	EARL_T1	1	1	0	0.2	0.3	0.1	-0.29	-0.27	0	0	0	0	0	0
3/8/2025 10:16	45502	DERR_T2	0	0	0	0	0	0	-0.59	-0.59	0	0	0	0	0	0
3/8/2025 10:16	61302	EARL_T1	3	2	-1	0.53	0.75	0.22	-0.15	-0.01	2	2	0	1800	1800	0
3/8/2025 10:16	40101	HUNT_T2	0	0	0	0	0	0	-1.39	-1.43	0	0	0	0	0	0
3/8/2025 10:16	61304	EARL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/8/2025 10:16	45501	DERR_T2	0	6	6	0	0.52	0.52	0	0	0	0	0	0	0	0
3/8/2025 10:17	61302	EARL_T1	3	2	-1	0.53	0.75	0.22	0	0	0	0	0	0	0	0
3/8/2025 10:17	61304	EARL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/8/2025 10:17	61301	EARL_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
3/8/2025 10:20	44201	POIN_T1	0	0	0	0	0	0	-1.6	-1.59	1	1	0	1200	1200	0
3/8/2025 10:22	44201	POIN_T1	0	0	0	0	0	0	-4.78	-4.5	3	3	0	3600	3600	0
3/8/2025 10:23	44201	POIN_T1	0	0	0	0	0	0	-1.59	-1.5	1	1	0	1200	1200	0
3/8/2025 10:24	44201	POIN_T1	0	0	0	0	0	0	-1.59	-1.5	1	1	0	1200	1200	0
3/8/2025 10:25	60801	BUCK_T1	0	1	1	0	0.4	0.4	-0.19	-0.18	0	0	0	0	0	0
3/8/2025 10:27	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 10:27	51102	CARL_T1	0	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0
3/8/2025 10:27	51101	CARL_T1	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
3/8/2025 10:28	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 10:29	21204	ECAR_T2	2	1	-1	0.2	0	-0.2	-0.6	-0.6	0	0	0	0	0	0
3/8/2025 10:29	21206	ECAR_T2	1	1	0	7.9	7.9	0	0	0	0	0	0	0	0	0
3/8/2025 10:33	20601	GRWO_T2	0	0	0	0	0	0	-0.53	-0.59	0	0	0	0	0	0
3/8/2025 10:33	20603	GRWO_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/8/2025 10:34	52404	GRPA_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
3/8/2025 10:34	52403	GRPA_T2	4	1	-3	0.18	0.7	0.52	0	0	0	0	0	0	0	0
3/8/2025 10:34	20603	GRWO_T2	1	3	2	0.1	0.17	0.07	0.43	0.5	0	0	0	0	0	0
3/8/2025 10:35	58401	MORO_T1	0	0	0	0	0	0	-1.14	-1.18	1	1	0	600	600	0
3/8/2025 10:35	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 10:36	52404	GRPA_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
3/8/2025 10:36	64101	REFR_T1	2	1	-1	0.15	0.2	0.05	-0.1	-0.13	0	0	0	0	0	0
3/8/2025 10:36	52403	GRPA_T2	4	1	-3	0.18	0.7	0.52	-2.36	-1.09	0	0	0	0	0	0
3/8/2025 10:38	67402	WAKE_T2	0	0	0	0	0	0	-0.4	-0.41	1	1	0	600	600	0
3/8/2025 10:39	67402	WAKE_T2	0	0	0	0	0	0	-0.4	-0.41	1	1	0	600	600	0
3/8/2025 10:40	67201	TEHI_T1	0	0	0	0	0	0	0.76	0.77	0	0	0	0	0	0
3/8/2025 10:40	64101	REFR_T1	2	1	-1	0.15	0.2	0.05	-0.1	-0.13	0	0	0	0	0	0
3/8/2025 10:40	67402	WAKE_T2	0	0	0	0	0	0	-0.4	-0.41	1	1	0	600	600	0
3/8/2025 10:43	61304	EARL_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/8/2025 10:43	61306	EARL_T1	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
3/8/2025 10:43	61302	EARL_T1	2	1	-1	0.75	0.4	-0.35	-0.38	-0.36	4	4	0	3600	3600	0
3/8/2025 10:44	10801	CHHI_T1	2	9	7	0.35	0.31	-0.04	-2.14	-2.15	3	3	0	2100	2100	0
3/8/2025 10:45	61303	EARL_T1	0	0	0	0	0	0	0.51	0.45	0	0	0	0	0	0
3/8/2025 10:45	61302	EARL_T1	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/8/2025 10:45	40501	CRES_T2	6	10	4	0.23	0.42	0.19	0	0	0	0	0	0	0	0
3/8/2025 10:45	41801	GOCI_T2	3	2	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
3/8/2025 10:45	63501	HEID_TBK1-2	37	31	-6	0.31	0.25	-0.06	-0.32	-0.48	2	2	0	1800	1800	0
3/8/2025 10:45	40502	CRES_T2	1	9	8	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
3/8/2025 10:45	61304	EARL_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/8/2025 10:46	63501	HEID_TBK1-2	37	31	-6	0.31	0.25	-0.06	-0.16	-0.24	1	1	0	900	900	0
3/8/2025 10:46	61304	EARL_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/8/2025 10:46	10801	CHHI_T1	2	10	8	0.1	0.35	0.25	-4.28	-4.3	6	6	0	4200	4200	0
3/8/2025 10:46	61301	EARL_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
3/8/2025 10:46	61302	EARL_T1	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/8/2025 10:47	63501	HEID_TBK1-2	37	31	-6	0.31	0.25	-0.06	-0.32	-0.48	2	2	0	1800	1800	0
3/8/2025 10:48	23404	HONE_T1	29	53	24	0.15	0.18	0.03	0	0	0	0	0	0	0	0
3/8/2025 10:48	23403	HONE_T1	45	65	20	0.22	0.25	0.03	0	0	0	0	0	0	0	0
3/8/2025 10:49	52402	GRPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 10:49	52403	GRPA_T2	1	2	1	1.1	0.7	-0.4	0	0	0	0	0	0	0	0
3/8/2025 10:49	41801	GOCI_T2	3	2	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
3/8/2025 10:51	44801	EDAN_T2	1	5	4	3.7	1.1	-2.6	0	0	0	0	0	0	0	0
3/8/2025 10:56	46002	BERW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 10:56	46004	BERW_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/8/2025 10:57	40201	BEGA_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/8/2025 10:59	40201	BEGA_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/8/2025 10:59	17802	GILB_T1	1	1	0	0.3	1.5	1.2	0.05	0.06	0	0	0	0	0	0
3/8/2025 11:00	63803	HEMP_T1	2	5	3	0.15	0.26	0.11	0	0	0	0	0	0	0	0
3/8/2025 11:00	63801	HEMP_T1	3	9	6	0.4	0.39	-0.01	0	0	0	0	0	0	0	0
3/8/2025 11:00	63804	HEMP_T1	1	2	1	5.8	3	-2.8	0.86	0.97	0	0	0	0	0	0
3/8/2025 11:00	63802	HEMP_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/8/2025 11:01	63501	HEID_TBK1-2	2	37	35	0.5	0.25	-0.25	-0.24	-0.13	1	1	0	900	900	0
3/8/2025 11:02	63501	HEID_TBK1-2	2	37	35	0.5	0.25	-0.25	-0.24	-0.13	1	1	0	900	900	0
3/8/2025 11:03	64202	KINZ_T1	1	4	3	0.3	0.3	0	0	0	0	0	0	0	0	0
3/8/2025 11:03	64204	KINZ_T1	3	14	11	0.43	0.31	-0.12	0	0	0	0	0	0	0	0
3/8/2025 11:03	64203	KINZ_T1	0	0	0	0	0	0	0.67	0.54	1	1	0	600	600	0
3/8/2025 11:04	64202	KINZ_T1	1	4	3	0.3	0.3	0	0	0	0	0	0	0	0	0
3/8/2025 11:04	64204	KINZ_T1	3	14	11	0.43	0.31	-0.12	0	0	0	0	0	0	0	0
3/8/2025 11:04	64203	KINZ_T1	0	0	0	0	0	0	0.67	0.54	1	1	0	600	600	0
3/8/2025 11:10	64701	LITI_T1	0	0	0	0	0	0	0.07	0.09	0	0	0	0	0	0
3/8/2025 11:10	67402	WAKE_T2	0	0	0	0	0	0	-0.41	-0.41	1	1	0	600	600	0
3/8/2025 11:12	67402	WAKE_T2	0	0	0	0	0	0	-0.41	-0.41	1	1	0	600	600	0
3/8/2025 11:18	63803	HEMP_T1	3	7	4	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
3/8/2025 11:18	63804	HEMP_T1	1	2	1	5.7	3	-2.7	0	0	0	0	0	0	0	0
3/8/2025 11:18	63802	HEMP_T1	2	1	-1	0.2	0.2	0	0.18	0.19	0	0	0	0	0	0
3/8/2025 11:18	52101	MEIS_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/8/2025 11:18	52102	MEIS_T1	2	2	0	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
3/8/2025 11:18	63801	HEMP_T1	6	10	4	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
3/8/2025 11:19	22602	KIMB_T1	1	0	-1	0.2	0	-0.2	0.18	0.19	0	0	0	0	0	0
3/8/2025 11:19	22601	KIMB_T1	2	1	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
3/8/2025 11:25	22602	KIMB_T1	1	0	-1	0.2	0	-0.2	0.19	0.23	0	0	0	0	0	0
3/8/2025 11:25	67002	STHI_T2	1	2	1	0.1	0.15	0.05	0.54	0.55	0	0	0	0	0	0
3/8/2025 11:25	22601	KIMB_T1	2	1	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
3/8/2025 11:25	52102	MEIS_T1	2	2	0	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
3/8/2025 11:25	52101	MEIS_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/8/2025 11:25	67203	TEHI_T1	0	0	0	0	0	0	0.9	0.87	0	0	0	0	0	0
3/8/2025 11:28	24102	EHAZ_T1	8	28	20	1.04	1.22	0.18	0	0	0	0	0	0	0	0
3/8/2025 11:28	24101	EHAZ_T1	21	43	22	0.44	1.19	0.75	0	0	0	0	0	0	0	0
3/8/2025 11:28	24104	EHAZ_T1	0	0	0	0	0	0	-2.19	-2.18	1	1	0	1200	1200	0
3/8/2025 11:28	24105	EHAZ_T1	4	4	0	6.53	6.73	0.2	0	0	0	0	0	0	0	0
3/8/2025 11:28	24103	EHAZ_T1	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/8/2025 11:31	26402	INOR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 11:31	63804	HEMP_T1	2	2	0	3.05	3.05	0	0	0	0	0	0	0	0	0
3/8/2025 11:31	63801	HEMP_T1	8	9	1	0.41	0.47	0.06	0	0	0	0	0	0	0	0
3/8/2025 11:31	63803	HEMP_T1	5	7	2	0.24	0.3	0.06	0	0	0	0	0	0	0	0
3/8/2025 11:31	26401	INOR_T1	2	3	1	7	4.53	-2.47	0.58	0.58	0	0	0	0	0	0
3/8/2025 11:31	63802	HEMP_T1	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
3/8/2025 11:32	26402	INOR_T1	0	1	1	0	0.1	0.1	-1.27	-1.29	0	0	0	0	0	0
3/8/2025 11:32	26401	INOR_T1	2	3	1	7	4.53	-2.47	0	0	0	0	0	0	0	0
3/8/2025 11:33	24102	EHAZ_T1	25	9	-16	0.96	0.77	-0.19	0	0	0	0	0	0	0	0
3/8/2025 11:33	24105	EHAZ_T1	4	5	1	6.73	6.7	-0.03	0	0	0	0	0	0	0	0
3/8/2025 11:33	24101	EHAZ_T1	31	41	10	1.18	0.73	-0.45	0	0	0	0	0	0	0	0
3/8/2025 11:33	24103	EHAZ_T1	1	0	-1	0.2	0	-0.2	-2.45	-2.4	0	0	0	0	0	0
3/8/2025 11:33	41801	GOCI_T2	9	21	12	0.62	0.36	-0.26	0	0	0	0	0	0	0	0
3/8/2025 11:34	63501	HEID_TBK1-2	28	20	-8	0.25	0.29	0.04	-0.24	-0.32	1	1	0	900	900	0
3/8/2025 11:34	41801	GOCI_T2	9	21	12	0.62	0.36	-0.26	0	0	0	0	0	0	0	0
3/8/2025 11:35	63803	HEMP_T1	5	7	2	0.24	0.3	0.06	0	0	0	0	0	0	0	0
3/8/2025 11:35	60404	DILL_T2	0	0	0	0	0	0	0.56	0.53	0	0	0	0	0	0
3/8/2025 11:35	63802	HEMP_T1	1	3	2	0.2	0.17	-0.03	0.19	0.14	0	0	0	0	0	0
3/8/2025 11:35	44801	EDAN_T2	3	3	0	0.37	0.37	0	-0.42	-0.45	0	0	0	0	0	0
3/8/2025 11:35	63804	HEMP_T1	2	2	0	3.05	3.05	0	0	0	0	0	0	0	0	0
3/8/2025 11:35	63501	HEID_TBK1-2	28	20	-8	0.25	0.29	0.04	-0.49	-0.64	2	2	0	1800	1800	0
3/8/2025 11:35	63801	HEMP_T1	8	9	1	0.41	0.47	0.06	0	0	0	0	0	0	0	0
3/8/2025 11:35	41801	GOCI_T2	9	21	12	0.62	0.36	-0.26	0	0	0	0	0	0	0	0
3/8/2025 11:36	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 11:36	60501	NMAN_T2	4	2	-2	0.18	0.2	0.02	0	0	0	0	0	0	0	0
3/8/2025 11:37	44505	HAMI_T2	1	2	1	0.1	0.15	0.05	0.26	0.25	0	0	0	0	0	0
3/8/2025 11:37	60801	BUCK_T1	0	1	1	0	0.5	0.5	-0.18	-0.17	0	0	0	0	0	0
3/8/2025 11:37	60803	BUCK_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/8/2025 11:37	44502	HAMI_T2	1	1	0	2.5	2.6	0.1	0	0	0	0	0	0	0	0
3/8/2025 11:38	40501	CRES_T2	9	8	-1	0.34	0.25	-0.09	0	0	0	0	0	0	0	0
3/8/2025 11:38	44801	EDAN_T2	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0	0
3/8/2025 11:38	44502	HAMI_T2	1	1	0	2.5	2.6	0.1	0	0	0	0	0	0	0	0
3/8/2025 11:38	44802	EDAN_T2	0	0	0	0	0	0	-4.52	-4.6	0	0	0	0	0	0
3/8/2025 11:38	44505	HAMI_T2	1	2	1	0.1	0.15	0.05	0.26	0.25	0	0	0	0	0	0
3/8/2025 11:38	40502	CRES_T2	1	10	9	0.1	0.2	0.1	0.06	0.06	0	0	0	0	0	0
3/8/2025 11:39	60305	TWVA_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
3/8/2025 11:39	44202	POIN_T2	1	1	0	0.4	0.4	0	-0.94	-0.94	1	1	0	1200	1200	0
3/8/2025 11:39	45501	DERR_T2	130	131	1	2.72	2.33	-0.39	-0.63	-0.63	2	2	0	1800	1800	0
3/8/2025 11:39	60301	TWVA_T2	0	3	3	0	0.13	0.13	-1.87	-1.9	2	2	0	1800	1800	0
3/8/2025 11:39	44203	POIN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/8/2025 11:40	13302	ORVI_T2	25	25	0	0.4	0.36	-0.04	1.05	1.03	0	0	0	0	0	0
3/8/2025 11:40	14603	SWHI_T1	1	5	4	0.5	0.36	-0.14	0	0	0	0	0	0	0	0
3/8/2025 11:40	14601	SWHI_T1	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
3/8/2025 11:40	13303	ORVI_T1	6	5	-1	0.37	0.36	-0.01	0.52	0.53	0	0	0	0	0	0
3/8/2025 11:41	67605	WARW_T1	14	17	3	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
3/8/2025 11:41	40201	BEGA_T2	2	3	1	0.25	0.43	0.18	0	0	0	0	0	0	0	0
3/8/2025 11:42	41801	GOCI_T2	9	21	12	0.62	0.36	-0.26	0	0	0	0	0	0	0	0
3/8/2025 11:42	63501	HEID_TBK1-2	28	20	-8	0.25	0.29	0.04	-0.32	-0.25	1	1	0	900	900	0
3/8/2025 11:42	63802	HEMP_T1	1	3	2	0.2	0.17	-0.03	0.14	0.22	0	0	0	0	0	0
3/8/2025 11:42	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 11:42	63804	HEMP_T1	2	2	0	3.05	3.05	0	0	0	0	0	0	0	0	0
3/8/2025 11:42	41602	CLEV_T1	1	2	1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
3/8/2025 11:42	45501	DERR_T2	130	131	1	2.72	2.33	-0.39	-0.63	-0.63	2	2	0	1800	1800	0
3/8/2025 11:42	63803	HEMP_T1	5	7	2	0.24	0.3	0.06	0	0	0	0	0	0	0	0
3/8/2025 11:42	26402	INOR_T1	0	1	1	0	0.1	0.1	-1.29	-1.28	0	0	0	0	0	0
3/8/2025 11:42	26401	INOR_T1	2	3	1	7	4.53	-2.47	0	0	0	0	0	0	0	0
3/8/2025 11:42	60501	NMAN_T2	4	2	-2	0.18	0.2	0.02	0	0	0	0	0	0	0	0
3/8/2025 11:42	63801	HEMP_T1	8	9	1	0.41	0.47	0.06	0	0	0	0	0	0	0	0
3/8/2025 11:42	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 11:43	41602	CLEV_T1	1	2	1	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
3/8/2025 11:43	41801	GOCI_T2	9	21	12	0.62	0.36	-0.26	0	0	0	0	0	0	0	0
3/8/2025 11:45	41801	GOCI_T2	20	50	30	0.36	0.31	-0.05	0	0	0	0	0	0	0	0
3/8/2025 11:45	47202	FAXO_T2	0	0	0	0	0	0	-2.32	-2.33	0	0	0	0	0	0
3/8/2025 11:45	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 11:45	41602	CLEV_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/8/2025 11:45	47201	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 11:46	21202	ECAR_T2	6	2	-4	0.37	0.15	-0.22	0	0	0	0	0	0	0	0
3/8/2025 11:46	46801	HEPB_T2	0	2	2	0	0.25	0.25	0.53	0.53	0	0	0	0	0	0
3/8/2025 11:46	21206	ECAR_T2	1	3	2	7.9	3.85	-4.05	0	-0.04	0	0	0	0	0	0
3/8/2025 11:46	45501	DERR_T2	129	139	10	2.56	2.21	-0.35	-1.26	-1.26	4	4	0	3600	3600	0
3/8/2025 11:46	21204	ECAR_T2	4	1	-3	0.33	0	-0.33	0	0	0	0	0	0	0	0
3/8/2025 11:47	52101	MEIS_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/8/2025 11:47	52102	MEIS_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
3/8/2025 11:48	52402	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/8/2025 11:48	52403	GRPA_T2	7	21	14	0.67	0.74	0.07	-0.63	-0.66	0	0	0	0	0	0
3/8/2025 11:49	52402	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/8/2025 11:49	52401	GRPA_T2	0	0	0	0	0	0	-1.05	-1.09	0	0	0	0	0	0
3/8/2025 11:49	28805	LAKE_T1	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
3/8/2025 11:49	45501	DERR_T2	129	139	10	2.56	2.21	-0.35	-0.63	-0.63	2	2	0	1800	1800	0
3/8/2025 11:49	52403	GRPA_T2	7	21	14	0.67	0.74	0.07	0	0	0	0	0	0	0	0
3/8/2025 11:51	52402	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/8/2025 11:51	52403	GRPA_T2	7	21	14	0.67	0.74	0.07	-0.63	-0.66	0	0	0	0	0	0
3/8/2025 11:53	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
3/8/2025 11:53	67605	WARW_T1	8	16	8	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
3/8/2025 11:54	60201	ATGL_T2	1	2	1	0.3	0.5	0.2	-0.33	-0.31	0	0	0	0	0	0
3/8/2025 11:54	67204	TEHI_T2	2	13	11	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
3/8/2025 11:54	67502	WEWI_T2	2	13	11	0.45	0.41	-0.04	0	0	0	0	0	0	0	0
3/8/2025 11:55	60201	ATGL_T2	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/8/2025 11:56	60201	ATGL_T2	1	2	1	0.3	0.5	0.2	-0.33	-0.31	0	0	0	0	0	0
3/8/2025 11:56	67204	TEHI_T2	2	13	11	0.55	0.3	-0.25	0.09	0.09	0	0	0	0	0	0
3/8/2025 11:56	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 11:56	67605	WARW_T1	8	16	8	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
3/8/2025 11:57	67204	TEHI_T2	2	13	11	0.55	0.3	-0.25	0.09	0.09	0	0	0	0	0	0
3/8/2025 11:57	67401	WAKE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 11:57	67402	WAKE_T2	0	3	3	0	0.37	0.37	-0.41	-0.42	1	1	0	600	600	0
3/8/2025 11:59	41602	CLEV_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/8/2025 12:00	40101	HUNT_T2	1	2	1	1	0.65	-0.35	-1.42	-1.44	0	0	0	0	0	0
3/8/2025 12:01	42601	TUSC_T1	16	14	-2	0.76	0.48	-0.28	-0.52	-0.61	2	2	0	1800	1800	0
3/8/2025 12:01	41602	CLEV_T1	2	1	-1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
3/8/2025 12:01	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 12:02	63602	LETO_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/8/2025 12:02	63601	LETO_T1	4	6	2	0.15	0.42	0.27	0.6	0.52	1	1	0	900	900	0
3/8/2025 12:02	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 12:02	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	-0.65	-0.65	1	1	0	600	600	0
3/8/2025 12:02	54504	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/8/2025 12:03	52403	GRPA_T2	14	21	7	0.79	0.75	-0.04	-0.66	-0.64	0	0	0	0	0	0
3/8/2025 12:03	52402	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/8/2025 12:04	63602	LETO_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/8/2025 12:04	63601	LETO_T1	4	6	2	0.15	0.42	0.27	0	0	0	0	0	0	0	0
3/8/2025 12:05	63602	LETO_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/8/2025 12:05	63601	LETO_T1	4	6	2	0.15	0.42	0.27	0.6	0.52	1	1	0	900	900	0
3/8/2025 12:06	65901	SAKR_T2	2	2	0	4.1	4.4	0.3	-1.13	-1.12	1	1	0	900	900	0
3/8/2025 12:06	41902	REED_T1	3	2	-1	0.33	0.5	0.17	0	0	0	0	0	0	0	0
3/8/2025 12:06	65904	SAKR_T2	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/8/2025 12:06	41901	REED_T1	3	3	0	0.13	0.17	0.04	0	0	0	0	0	0	0	0
3/8/2025 12:07	58402	MORO_T1	0	0	0	0	0	0	-0.38	-0.43	2	2	0	1500	1500	0
3/8/2025 12:07	66505	SMAN_T2	1	3	2	4.6	0.13	-4.47	0	0	0	0	0	0	0	0
3/8/2025 12:07	52403	GRPA_T2	14	21	7	0.79	0.75	-0.04	-0.64	-0.68	0	0	0	0	0	0
3/8/2025 12:07	66504	SMAN_T2	2	3	1	0.85	0.83	-0.02	-0.59	-0.64	0	0	0	0	0	0
3/8/2025 12:07	52402	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/8/2025 12:07	58401	MORO_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
3/8/2025 12:07	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.09	-0.09	0	0	0	0	0	0
3/8/2025 12:09	41901	REED_T1	3	3	0	0.13	0.17	0.04	0	0	0	0	0	0	0	0
3/8/2025 12:09	41902	REED_T1	3	2	-1	0.33	0.5	0.17	0.87	0.85	0	0	0	0	0	0
3/8/2025 12:10	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/8/2025 12:10	13303	ORVI_T1	3	6	3	0.37	0.2	-0.17	1.09	1.15	0	0	0	0	0	0
3/8/2025 12:10	66505	SMAN_T2	1	3	2	4.6	0.13	-4.47	0	0	0	0	0	0	0	0
3/8/2025 12:10	66504	SMAN_T2	2	3	1	0.85	0.83	-0.02	-1.18	-1.28	0	0	0	0	0	0
3/8/2025 12:11	43402	BENT_T1	2	2	0	0.95	0.7	-0.25	-0.95	-0.97	1	1	0	900	900	0
3/8/2025 12:11	66505	SMAN_T2	1	3	2	4.6	0.13	-4.47	0	0	0	0	0	0	0	0
3/8/2025 12:11	66504	SMAN_T2	2	3	1	0.85	0.83	-0.02	0	0	0	0	0	0	0	0
3/8/2025 12:11	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/8/2025 12:12	65901	SAKR_T2	2	2	0	4.1	4.4	0.3	-1.13	-1.12	1	1	0	900	900	0
3/8/2025 12:12	65904	SAKR_T2	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/8/2025 12:12	66505	SMAN_T2	1	3	2	4.6	0.13	-4.47	0	0	0	0	0	0	0	0
3/8/2025 12:12	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/8/2025 12:12	66504	SMAN_T2	2	3	1	0.85	0.83	-0.02	0	0	0	0	0	0	0	0
3/8/2025 12:14	66505	SMAN_T2	1	3	2	4.6	0.13	-4.47	0	0	0	0	0	0	0	0
3/8/2025 12:14	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/8/2025 12:14	43402	BENT_T1	2	2	0	0.95	0.7	-0.25	-0.95	-0.97	1	1	0	900	900	0
3/8/2025 12:14	66504	SMAN_T2	2	3	1	0.85	0.83	-0.02	-0.59	-0.64	0	0	0	0	0	0
3/8/2025 12:16	63501	HEID_TBK1-2	17	8	-9	0.29	0.48	0.19	-0.27	-0.32	1	1	0	900	900	0
3/8/2025 12:16	17802	GILB_T1	0	2	2	0	1.05	1.05	0.18	0.17	0	0	0	0	0	0
3/8/2025 12:16	44502	HAMI_T2	1	2	1	2.6	1.5	-1.1	0	0	0	0	0	0	0	0
3/8/2025 12:16	44505	HAMI_T2	2	2	0	0.15	0.35	0.2	0.27	0.26	0	0	0	0	0	0
3/8/2025 12:17	44505	HAMI_T2	2	2	0	0.15	0.35	0.2	0.27	0.26	0	0	0	0	0	0
3/8/2025 12:17	44502	HAMI_T2	1	2	1	2.6	1.5	-1.1	0	0	0	0	0	0	0	0
3/8/2025 12:18	64204	KINZ_T1	21	37	16	0.35	0.43	0.08	0	0	0	0	0	0	0	0
3/8/2025 12:18	64203	KINZ_T1	1	1	0	0.2	0.6	0.4	-0.45	0.19	1	0	-1	600	0	-600
3/8/2025 12:18	52102	MEIS_T1	1	5	4	0.7	0.32	-0.38	0	0	0	0	0	0	0	0
3/8/2025 12:18	52101	MEIS_T1	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
3/8/2025 12:18	64202	KINZ_T1	1	3	2	0.8	0.33	-0.47	0	0	0	0	0	0	0	0
3/8/2025 12:18	64201	KINZ_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/8/2025 12:19	41002	LAUR_T2	4	22	18	0.6	0.25	-0.35	-0.98	-1	0	0	0	0	0	0
3/8/2025 12:19	63602	LETO_T1	2	3	1	0.25	0.5	0.25	-0.57	-0.57	0	0	0	0	0	0
3/8/2025 12:19	41001	LAUR_T2	19	64	45	0.36	0.29	-0.07	0	0	0	0	0	0	0	0
3/8/2025 12:19	63601	LETO_T1	5	6	1	0.22	0.43	0.21	0	0	0	0	0	0	0	0
3/8/2025 12:20	64203	KINZ_T1	1	1	0	0.2	0.6	0.4	-0.45	0.19	1	0	-1	600	0	-600
3/8/2025 12:20	63501	HEID_TBK1-2	17	8	-9	0.29	0.48	0.19	-0.27	-0.32	1	1	0	900	900	0
3/8/2025 12:20	44505	HAMI_T2	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
3/8/2025 12:20	63602	LETO_T1	2	3	1	0.25	0.5	0.25	-0.57	-0.57	0	0	0	0	0	0
3/8/2025 12:20	64201	KINZ_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/8/2025 12:20	64204	KINZ_T1	21	37	16	0.35	0.43	0.08	0	0	0	0	0	0	0	0
3/8/2025 12:20	54201	PENN_T1	28	86	58	0.52	0.35	-0.17	-1.3	-1.33	0	0	0	0	0	0
3/8/2025 12:20	64202	KINZ_T1	1	3	2	0.8	0.33	-0.47	0	0	0	0	0	0	0	0
3/8/2025 12:20	63601	LETO_T1	5	6	1	0.22	0.43	0.21	0	0	0	0	0	0	0	0
3/8/2025 12:20	44502	HAMI_T2	1	2	1	2.6	1.5	-1.1	0	0	0	0	0	0	0	0
3/8/2025 12:20	54203	PENN_T1	27	29	2	0.84	0.97	0.13	0	0	0	0	0	0	0	0
3/8/2025 12:21	54203	PENN_T1	27	29	2	0.84	0.97	0.13	0	0	0	0	0	0	0	0
3/8/2025 12:21	54201	PENN_T1	28	86	58	0.52	0.35	-0.17	-1.3	-1.33	0	0	0	0	0	0
3/8/2025 12:22	54201	PENN_T1	28	86	58	0.52	0.35	-0.17	0	0	0	0	0	0	0	0
3/8/2025 12:22	54203	PENN_T1	27	29	2	0.84	0.97	0.13	-0.08	-0.05	0	0	0	0	0	0
3/8/2025 12:23	54201	PENN_T1	28	86	58	0.52	0.35	-0.17	-1.33	-1.3	0	0	0	0	0	0
3/8/2025 12:23	54203	PENN_T1	27	29	2	0.84	0.97	0.13	-0.08	-0.05	0	0	0	0	0	0
3/8/2025 12:26	16302	ALPA_T2	2	2	0	0.45	0.35	-0.1	0.54	0.49	0	0	0	0	0	0
3/8/2025 12:26	60101	COCA_T1	3	6	3	0.7	0.53	-0.17	0	0	0	0	0	0	0	0
3/8/2025 12:26	54201	PENN_T1	28	86	58	0.52	0.35	-0.17	-1.33	-1.3	0	0	0	0	0	0
3/8/2025 12:26	60102	COCA_T1	3	0	-3	0.4	0.47	0.07	-0.57	-0.56	2	2	0	1200	1200	0
3/8/2025 12:26	54203	PENN_T1	27	29	2	0.84	0.97	0.13	0	0	0	0	0	0	0	0
3/8/2025 12:27	60101	COCA_T1	3	6	3	0.7	0.53	-0.17	0.61	0.73	0	0	0	0	0	0
3/8/2025 12:27	41602	CLEV_T1	1	3	2	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/8/2025 12:27	40502	CRES_T2	11	23	12	0.32	0.36	0.04	0.06	0.06	0	0	0	0	0	0
3/8/2025 12:27	42601	TUSC_T1	13	5	-8	0.58	0.48	-0.1	-0.54	-0.5	2	2	0	1800	1800	0
3/8/2025 12:27	67001	STHI_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
3/8/2025 12:27	40501	CRES_T2	15	17	2	0.24	0.45	0.21	0	0	0	0	0	0	0	0
3/8/2025 12:27	67002	STHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/8/2025 12:27	60102	COCA_T1	3	3	0	0.4	0.47	0.07	-0.57	-0.56	2	2	0	1200	1200	0
3/8/2025 12:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 12:28	40502	CRES_T2	11	23	12	0.32	0.36	0.04	0.06	0.06	0	0	0	0	0	0
3/8/2025 12:28	16302	ALPA_T2	2	2	0	0.45	0.35	-0.1	0.54	0.49	0	0	0	0	0	0
3/8/2025 12:28	40501	CRES_T2	15	17	2	0.24	0.45	0.21	0	0	0	0	0	0	0	0
3/8/2025 12:28	67402	WAKE_T2	3	5	2	0.37	0.58	0.21	-0.41	-0.45	1	1	0	600	600	0
3/8/2025 12:28	67401	WAKE_T2	1	2	1	0.1	0.3	0.2	-0.95	-0.95	0	0	0	0	0	0
3/8/2025 12:28	60104	COCA_T2	2	5	3	0.1	0.26	0.16	0	0	0	0	0	0	0	0
3/8/2025 12:28	60103	COCA_T2	0	1	1	0	0.1	0.1	-0.9	-0.9	0	0	0	0	0	0
3/8/2025 12:29	40505	CRES_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/8/2025 12:29	40504	CRES_T1	1	2	1	0.5	0.45	-0.05	-0.62	-0.66	0	0	0	0	0	0
3/8/2025 12:30	60104	COCA_T2	3	5	2	0.1	0.26	0.16	0	0	0	0	0	0	0	0
3/8/2025 12:30	60101	COCA_T1	3	8	5	0.67	0.51	-0.16	0.3	0.36	0	0	0	0	0	0
3/8/2025 12:30	40504	CRES_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
3/8/2025 12:30	41801	GOCI_T2	64	88	24	0.29	0.33	0.04	0	0	0	0	0	0	0	0
3/8/2025 12:30	16302	ALPA_T2	2	1	-1	0.35	0.5	0.15	1.08	0.99	0	0	0	0	0	0
3/8/2025 12:30	40505	CRES_T1	0	1	1	0	0.4	0.4	0.68	0.68	0	0	0	0	0	0
3/8/2025 12:30	60103	COCA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 12:30	60102	COCA_T1	2	9	7	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
3/8/2025 12:32	60102	COCA_T1	2	9	7	0.45	0.37	-0.08	0	0	0	0	0	0	0	0
3/8/2025 12:32	40504	CRES_T1	2	2	0	0.45	0.45	0	-0.62	-0.66	0	0	0	0	0	0
3/8/2025 12:32	60101	COCA_T1	3	8	5	0.67	0.51	-0.16	0.3	0.36	0	0	0	0	0	0
3/8/2025 12:32	40505	CRES_T1	0	1	1	0	0.4	0.4	0.34	0.34	0	0	0	0	0	0
3/8/2025 12:32	63602	LETO_T1	2	3	1	0.3	0.5	0.2	-0.57	-0.54	0	0	0	0	0	0
3/8/2025 12:32	63601	LETO_T1	6	5	-1	0.42	0.3	-0.12	0	0	0	0	0	0	0	0
3/8/2025 12:33	54504	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/8/2025 12:33	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/8/2025 12:33	40504	CRES_T1	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
3/8/2025 12:33	54506	ENOL_T2	0	0	0	0	0	0	-1.43	-1.44	0	1	1	0	600	600
3/8/2025 12:33	40505	CRES_T1	0	1	1	0	0.4	0.4	1.02	1.01	0	0	0	0	0	0
3/8/2025 12:33	54502	ENOL_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/8/2025 12:35	47104	MARL_T1	1	0	-1	0.1	0	-0.1	-2.26	-2.26	0	0	0	0	0	0
3/8/2025 12:35	41204	KENM_T2	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
3/8/2025 12:35	47101	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 12:36	48302	ORWI_T2	2	2	0	1.5	1.5	0	-0.06	-0.09	0	0	0	0	0	0
3/8/2025 12:36	48303	ORWI_T2	2	8	6	0.75	0.34	-0.41	0	0	0	0	0	0	0	0
3/8/2025 12:37	64101	REFR_T1	8	7	-1	0.55	0.51	-0.04	-0.37	-0.2	0	0	0	0	0	0
3/8/2025 12:38	48302	ORWI_T2	2	2	0	1.5	1.5	0	0	0	0	0	0	0	0	0
3/8/2025 12:38	48303	ORWI_T2	2	8	6	0.75	0.34	-0.41	0.49	0.47	0	0	0	0	0	0
3/8/2025 12:38	64101	REFR_T1	8	7	-1	0.55	0.51	-0.04	-0.19	-0.1	0	0	0	0	0	0
3/8/2025 12:38	52502	PROG_T2	2	4	2	0.25	0.28	0.03	0	0	0	0	0	0	0	0
3/8/2025 12:38	44801	EDAN_T2	2	2	0	0.5	0.55	0.05	-0.43	-0.43	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/8/2025 12:38	44802	EDAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 12:39	55105	WERT_T1	0	0	0	0	0	0	-0.7	-0.76	1	1	0	900	900	0
3/8/2025 12:39	64101	REFR_T1	8	7	-1	0.55	0.51	-0.04	-0.19	-0.1	0	0	0	0	0	0
3/8/2025 12:40	64101	REFR_T1	8	7	-1	0.55	0.51	-0.04	-0.19	-0.1	0	0	0	0	0	0
3/8/2025 12:41	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/8/2025 12:41	64101	REFR_T1	8	7	-1	0.55	0.51	-0.04	-0.56	-0.3	0	0	0	0	0	0
3/8/2025 12:41	67605	WARW_T1	15	18	3	0.41	0.48	0.07	-1.06	-1.02	0	0	0	0	0	0
3/8/2025 12:42	55101	WERT_T1	0	0	0	0	0	0	-1.45	-1.26	2	2	0	1500	1500	0
3/8/2025 12:42	25801	SUTR_T2	2	2	0	8.75	9.2	0.45	-0.06	-0.05	0	0	0	0	0	0
3/8/2025 12:45	54502	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/8/2025 12:45	54505	ENOL_T2	1	2	1	0.5	0.55	0.05	0	0	0	0	0	0	0	0
3/8/2025 12:45	54504	ENOL_T2	1	1	0	0.8	0.6	-0.2	-1.08	-1.08	1	1	0	600	600	0
3/8/2025 12:46	64404	LAND_T2	90	85	-5	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
3/8/2025 12:46	64402	LAND_T2	9	8	-1	0.7	0.81	0.11	-0.63	-0.61	1	1	0	600	600	0
3/8/2025 12:47	64401	LAND_T1	1	2	1	0.2	0.2	0	-0.46	-0.45	0	0	0	0	0	0
3/8/2025 12:47	64403	LAND_T1	10	3	-7	0.17	0.37	0.2	0	0	0	0	0	0	0	0
3/8/2025 12:48	41202	KENM_T2	0	0	0	0	0	0	-0.59	-0.58	0	0	0	0	0	0
3/8/2025 12:49	64403	LAND_T1	10	3	-7	0.17	0.37	0.2	-1.88	-1.89	1	1	0	900	900	0
3/8/2025 12:49	64401	LAND_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/8/2025 12:50	64403	LAND_T1	10	3	-7	0.17	0.37	0.2	0	0	0	0	0	0	0	0
3/8/2025 12:50	64401	LAND_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/8/2025 12:51	64403	LAND_T1	10	3	-7	0.17	0.37	0.2	0	0	0	0	0	0	0	0
3/8/2025 12:51	64401	LAND_T1	1	2	1	0.2	0.2	0	-0.45	-0.46	0	0	0	0	0	0
3/8/2025 12:53	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/8/2025 12:53	67605	WARW_T1	17	19	2	0.45	0.44	-0.01	-1.02	-1.02	0	0	0	0	0	0
3/8/2025 12:53	52502	PROG_T2	4	4	0	0.23	0.28	0.05	0	0	0	0	0	0	0	0
3/8/2025 12:54	67605	WARW_T1	17	19	2	0.45	0.44	-0.01	0	0	0	0	0	0	0	0
3/8/2025 12:54	52502	PROG_T2	4	4	0	0.23	0.28	0.05	-0.61	0.29	1	0	-1	900	0	-900
3/8/2025 12:54	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/8/2025 12:55	45902	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 12:55	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 12:56	14801	TREI_T2	0	1	1	0	0.4	0.4	0.47	0.44	0	0	0	0	0	0
3/8/2025 12:56	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/8/2025 12:56	14802	TREI_T2	3	1	-2	0.37	0.4	0.03	0.39	0.39	0	0	0	0	0	0
3/8/2025 12:56	67605	WARW_T1	17	19	2	0.45	0.44	-0.01	-1.02	-1.02	0	0	0	0	0	0
3/8/2025 12:57	67604	WARW_T1	0	0	0	0	0	0	0.07	0.08	0	0	0	0	0	0
3/8/2025 12:57	46004	BERW_T2	2	2	0	0.6	0.7	0.1	-0.8	-0.82	0	0	0	0	0	0
3/8/2025 12:57	46002	BERW_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/8/2025 12:57	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/8/2025 12:57	67605	WARW_T1	17	19	2	0.45	0.44	-0.01	0	0	0	0	0	0	0	0
3/8/2025 12:58	14801	TREI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/8/2025 12:58	45902	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 12:58	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 12:58	14802	TREI_T2	3	1	-2	0.37	0.4	0.03	0.39	0.39	0	0	0	0	0	0
3/8/2025 12:58	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/8/2025 12:58	67605	WARW_T1	17	19	2	0.45	0.44	-0.01	-1.02	-1.02	0	0	0	0	0	0
3/8/2025 12:59	46002	BERW_T2	0	0	0	0	0	0	-1.44	-1.46	1	1	0	900	900	0
3/8/2025 12:59	46203	DANV_T2	161	102	-59	0.67	0.56	-0.11	-2.02	-2.02	0	0	0	0	0	0
3/8/2025 13:00	14801	TREI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/8/2025 13:00	41801	GOCI_T2	85	90	5	0.33	0.34	0.01	0	0	0	0	0	0	0	0
3/8/2025 13:00	14802	TREI_T2	1	1	0	0.1	0.4	0.3	0.39	0.39	0	0	0	0	0	0
3/8/2025 13:01	52402	GRPA_T2	2	2	0	0.4	0.85	0.45	0	0	0	0	0	0	0	0
3/8/2025 13:01	52403	GRPA_T2	21	32	11	0.76	0.61	-0.15	-0.66	-0.62	0	0	0	0	0	0
3/8/2025 13:02	46203	DANV_T2	102	28	-74	0.55	0.52	-0.03	-1.01	-1.01	0	0	0	0	0	0
3/8/2025 13:04	41801	GOCI_T2	85	90	5	0.33	0.34	0.01	0	0	0	0	0	0	0	0
3/8/2025 13:04	46203	DANV_T2	102	28	-74	0.55	0.52	-0.03	-1.01	-1.01	0	0	0	0	0	0
3/8/2025 13:05	54505	ENOL_T2	1	2	1	0.5	0.6	0.1	-0.65	-0.65	1	1	0	600	600	0
3/8/2025 13:05	54502	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/8/2025 13:05	54504	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/8/2025 13:08	17002	RIRO_T2	2	2	0	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
3/8/2025 13:12	67502	WEWI_T2	49	18	-31	0.29	0.31	0.02	0	0	0	0	0	0	0	0
3/8/2025 13:14	16302	ALPA_T2	0	1	1	0	0.3	0.3	0.44	0.43	0	0	0	0	0	0
3/8/2025 13:17	63802	HEMP_T1	9	6	-3	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
3/8/2025 13:17	63801	HEMP_T1	40	26	-14	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/8/2025 13:17	63804	HEMP_T1	7	7	0	0.96	0.86	-0.1	0	0	0	0	0	0	0	0
3/8/2025 13:17	63803	HEMP_T1	26	19	-7	0.25	0.23	-0.02	0.49	0.47	0	0	0	0	0	0
3/8/2025 13:18	21403	EXET_T2	0	0	0	0	0	0	-1.38	-1.36	0	0	0	0	0	0
3/8/2025 13:18	63802	HEMP_T1	9	6	-3	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
3/8/2025 13:18	63801	HEMP_T1	40	26	-14	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/8/2025 13:18	63803	HEMP_T1	26	19	-7	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
3/8/2025 13:18	54506	ENOL_T2	0	0	0	0	0	0	-1.46	-1.38	1	0	-1	600	0	-600
3/8/2025 13:18	54505	ENOL_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
3/8/2025 13:18	64203	KINZ_T1	2	0	-2	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/8/2025 13:18	63804	HEMP_T1	7	7	0	0.96	0.86	-0.1	0.86	0.83	0	0	0	0	0	0
3/8/2025 13:18	54502	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/8/2025 13:18	64204	KINZ_T1	20	29	9	0.44	0.56	0.12	0	0	0	0	0	0	0	0
3/8/2025 13:18	54504	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/8/2025 13:19	63804	HEMP_T1	7	7	0	0.96	0.86	-0.1	0	0	0	0	0	0	0	0
3/8/2025 13:19	63802	HEMP_T1	9	6	-3	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
3/8/2025 13:19	63801	HEMP_T1	40	26	-14	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/8/2025 13:19	63803	HEMP_T1	26	19	-7	0.25	0.23	-0.02	0.49	0.47	0	0	0	0	0	0
3/8/2025 13:20	63801	HEMP_T1	40	26	-14	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/8/2025 13:20	63803	HEMP_T1	26	19	-7	0.25	0.23	-0.02	0.49	0.47	0	0	0	0	0	0
3/8/2025 13:20	11805	FRAN_T1	0	3	3	0	0.67	0.67	0	0	0	0	0	0	0	0
3/8/2025 13:20	63804	HEMP_T1	7	7	0	0.96	0.86	-0.1	0	0	0	0	0	0	0	0
3/8/2025 13:20	11804	FRAN_T1	4	3	-1	0.3	0.97	0.67	0	0	0	0	0	0	0	0
3/8/2025 13:20	63802	HEMP_T1	9	6	-3	0.27	0.15	-0.12	0	0	0	0	0	0	0	0
3/8/2025 13:21	64204	KINZ_T1	20	29	9	0.44	0.56	0.12	0	0	0	0	0	0	0	0
3/8/2025 13:21	64203	KINZ_T1	2	0	-2	0.7	0	-0.7	0.23	0.19	0	0	0	0	0	0
3/8/2025 13:22	52402	GRPA_T2	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0	0
3/8/2025 13:22	52403	GRPA_T2	32	36	4	0.61	0.55	-0.06	-0.67	-0.69	0	0	0	0	0	0
3/8/2025 13:23	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 13:24	67601	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 13:26	67605	WARW_T1	17	26	9	0.38	0.6	0.22	-1.08	-1.06	0	0	0	0	0	0
3/8/2025 13:26	67603	WARW_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/8/2025 13:28	44905	SCOT_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/8/2025 13:28	44904	SCOT_T1	0	0	0	0	0	0	0.47	0.52	0	0	0	0	0	0
3/8/2025 13:28	61702	ELIZ_T2	4	4	0	0.6	0.63	0.03	-2.05	-2.06	2	2	0	1500	1500	0
3/8/2025 13:30	11202	ELHE_T2	0	0	0	0	0	0	0.38	0.37	1	1	0	1200	1200	0
3/8/2025 13:30	63803	HEMP_T1	11	19	8	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
3/8/2025 13:30	44905	SCOT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/8/2025 13:30	63802	HEMP_T1	4	6	2	0.18	0.2	0.02	0	0	0	0	0	0	0	0
3/8/2025 13:30	63801	HEMP_T1	12	29	17	0.45	0.38	-0.07	-0.39	-0.43	0	0	0	0	0	0
3/8/2025 13:30	63804	HEMP_T1	6	7	1	0.97	0.89	-0.08	0	0	0	0	0	0	0	0
3/8/2025 13:30	16302	ALPA_T2	1	2	1	0.3	0.25	-0.05	0.43	0.45	0	0	0	0	0	0
3/8/2025 13:31	44905	SCOT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/8/2025 13:31	44902	SCOT_T2	3	4	1	0.4	0.43	0.03	-0.99	-1	0	0	0	0	0	0
3/8/2025 13:31	44901	SCOT_T2	104	97	-7	0.36	0.3	-0.06	-0.18	-0.19	0	0	0	0	0	0
3/8/2025 13:32	17401	FOHI_T1	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
3/8/2025 13:36	52101	MEIS_T1	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/8/2025 13:36	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 13:38	52403	GRPA_T2	27	37	10	0.6	0.55	-0.05	-0.69	-0.58	0	0	0	0	0	0
3/8/2025 13:38	52402	GRPA_T2	2	3	1	0.75	0.47	-0.28	0	0	0	0	0	0	0	0
3/8/2025 13:41	66505	SMAN_T2	3	3	0	0.13	0.43	0.3	0	0	0	0	0	0	0	0
3/8/2025 13:41	66504	SMAN_T2	2	3	1	0.9	0.67	-0.23	-0.6	-0.65	0	0	0	0	0	0
3/8/2025 13:42	16302	ALPA_T2	1	2	1	0.3	0.25	-0.05	0.45	0.41	0	0	0	0	0	0
3/8/2025 13:43	47104	MARL_T1	0	0	0	0	0	0	-2.25	-2.29	0	0	0	0	0	0
3/8/2025 13:44	61303	EARL_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/8/2025 13:44	61302	EARL_T1	7	6	-1	0.64	0.47	-0.17	0	0	0	0	0	0	0	0
3/8/2025 13:44	61306	EARL_T1	3	3	0	0.17	0.17	0	0.03	0.03	0	0	0	0	0	0
3/8/2025 13:44	61304	EARL_T1	4	6	2	0.6	0.57	-0.03	-0.26	-0.28	0	0	0	0	0	0
3/8/2025 13:45	61302	EARL_T1	6	6	0	0.45	0.65	0.2	0	0	0	0	0	0	0	0
3/8/2025 13:45	61306	EARL_T1	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
3/8/2025 13:45	45501	DERR_T2	162	161	-1	1.81	1.67	-0.14	-0.62	-0.73	2	2	0	1800	1800	0
3/8/2025 13:45	61304	EARL_T1	4	16	12	0.6	0.28	-0.32	-0.26	-0.28	0	0	0	0	0	0
3/8/2025 13:45	61303	EARL_T1	2	2	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/8/2025 13:46	61703	ELIZ_T1	5	6	1	0.14	0.35	0.21	0	0	0	0	0	0	0	0
3/8/2025 13:46	66504	SMAN_T2	2	3	1	0.95	0.57	-0.38	0	0	0	0	0	0	0	0
3/8/2025 13:46	66505	SMAN_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
3/8/2025 13:46	61701	ELIZ_T1	2	2	0	3.25	3.45	0.2	-0.04	-0.04	0	0	0	0	0	0
3/8/2025 13:46	45501	DERR_T2	162	161	-1	1.81	1.67	-0.14	-1.24	-1.46	4	4	0	3600	3600	0
3/8/2025 13:47	17805	GILB_T2	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
3/8/2025 13:49	45501	DERR_T2	162	161	-1	1.81	1.67	-0.14	-0.62	-0.73	2	2	0	1800	1800	0
3/8/2025 13:50	12604	MACA_T1	5	7	2	0.46	0.56	0.1	0	0	0	0	0	0	0	0
3/8/2025 13:50	12606	MACA_T1	1	1	0	0.5	0.4	-0.1	-0.28	-0.23	1	1	0	900	900	0
3/8/2025 13:50	12603	MACA_T1	3	4	1	0.57	0.6	0.03	0	0	0	0	0	0	0	0
3/8/2025 13:50	12601	MACA_T1	2	2	0	1	0.95	-0.05	0	0	0	0	0	0	0	0
3/8/2025 13:50	12605	MACA_T1	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
3/8/2025 13:50	12602	MACA_T1	40	100	60	0.17	0.22	0.05	0	0	0	0	0	0	0	0
3/8/2025 13:51	63802	HEMP_T1	5	5	0	0.14	0.26	0.12	0	0	0	0	0	0	0	0
3/8/2025 13:51	63801	HEMP_T1	26	63	37	0.36	0.27	-0.09	0	0	0	0	0	0	0	0
3/8/2025 13:51	63803	HEMP_T1	19	30	11	0.2	0.23	0.03	0.43	0.45	0	0	0	0	0	0
3/8/2025 13:51	63804	HEMP_T1	7	7	0	0.86	0.91	0.05	0	0	0	0	0	0	0	0
3/8/2025 13:52	12603	MACA_T1	3	4	1	0.57	0.6	0.03	0	0	0	0	0	0	0	0
3/8/2025 13:52	12605	MACA_T1	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
3/8/2025 13:52	12606	MACA_T1	1	1	0	0.5	0.4	-0.1	-0.23	-0.29	1	1	0	900	900	0
3/8/2025 13:52	12604	MACA_T1	5	7	2	0.46	0.56	0.1	0.3	0.28	0	0	0	0	0	0
3/8/2025 13:52	12601	MACA_T1	2	2	0	1	0.95	-0.05	0	0	0	0	0	0	0	0
3/8/2025 13:52	12602	MACA_T1	40	100	60	0.17	0.22	0.05	-0.84	-0.85	0	0	0	0	0	0
3/8/2025 13:56	66505	SMAN_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
3/8/2025 13:56	66504	SMAN_T2	2	3	1	0.95	0.57	-0.38	-0.65	-0.64	0	0	0	0	0	0
3/8/2025 13:57	66505	SMAN_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
3/8/2025 13:57	66504	SMAN_T2	2	3	1	0.95	0.57	-0.38	0	0	0	0	0	0	0	0
3/8/2025 13:58	10901	COOP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 13:58	10903	COOP_T2	3	4	1	0.6	0.63	0.03	0	0	0	0	0	0	0	0
3/8/2025 13:58	41601	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 13:58	41602	CLEV_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/8/2025 14:00	46002	BERW_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
3/8/2025 14:00	61704	ELIZ_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 14:00	61706	ELIZ_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/8/2025 14:00	61702	ELIZ_T2	4	4	0	0.65	0.88	0.23	-2.1	-2.07	2	2	0	1500	1500	0
3/8/2025 14:00	46004	BERW_T2	2	3	1	0.8	0.45	-0.35	-0.78	-0.79	0	0	0	0	0	0
3/8/2025 14:04	52101	MEIS_T1	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/8/2025 14:04	52102	MEIS_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/8/2025 14:13	67603	WARW_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/8/2025 14:13	67605	WARW_T1	30	31	1	0.61	0.69	0.08	-1.08	-1.05	0	0	0	0	0	0
3/8/2025 14:14	41602	CLEV_T1	1	3	2	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/8/2025 14:14	41601	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/8/2025 14:15	45501	DERR_T2	153	172	19	1.75	1.29	-0.46	-0.69	-0.93	2	2	0	1800	1800	0
3/8/2025 14:16	45501	DERR_T2	153	172	19	1.75	1.29	-0.46	-0.69	-0.93	2	2	0	1800	1800	0
3/8/2025 14:18	12603	MACA_T1	4	3	-1	0.6	0.67	0.07	0	0	0	0	0	0	0	0
3/8/2025 14:18	12604	MACA_T1	6	3	-3	0.58	0.33	-0.25	0.57	0.58	0	0	0	0	0	0
3/8/2025 14:18	12601	MACA_T1	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/8/2025 14:18	12606	MACA_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/8/2025 14:18	12605	MACA_T1	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/8/2025 14:18	12602	MACA_T1	88	84	-4	0.21	0.24	0.03	0	0	0	0	0	0	0	0
3/8/2025 14:20	12606	MACA_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/8/2025 14:20	12604	MACA_T1	6	3	-3	0.58	0.33	-0.25	0.28	0.29	0	0	0	0	0	0
3/8/2025 14:20	12603	MACA_T1	4	3	-1	0.6	0.67	0.07	0	0	0	0	0	0	0	0
3/8/2025 14:20	12601	MACA_T1	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/8/2025 14:20	12602	MACA_T1	88	84	-4	0.21	0.24	0.03	0	0	0	0	0	0	0	0
3/8/2025 14:20	12605	MACA_T1	2	2	0	0.3	0.4	0.1	0.19	0.22	0	0	0	0	0	0
3/8/2025 14:21	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 14:22	12603	MACA_T1	4	3	-1	0.6	0.67	0.07	0	0	0	0	0	0	0	0
3/8/2025 14:22	12604	MACA_T1	6	3	-3	0.58	0.33	-0.25	0	0	0	0	0	0	0	0
3/8/2025 14:22	12601	MACA_T1	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/8/2025 14:22	12602	MACA_T1	88	84	-4	0.21	0.24	0.03	0	0	0	0	0	0	0	0
3/8/2025 14:22	14502	SCHO_T1	10	8	-2	0.52	0.6	0.08	0.24	0.24	0	0	0	0	0	0
3/8/2025 14:22	12606	MACA_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/8/2025 14:22	12605	MACA_T1	2	2	0	0.3	0.4	0.1	0.44	0.42	0	0	0	0	0	0
3/8/2025 14:22	14501	SCHO_T1	3	1	-2	0.23	0.3	0.07	0	0	0	0	0	0	0	0
3/8/2025 14:23	66203	SISP_T2	1	1	0	0.4	0.2	-0.2	-0.08	-0.05	0	0	0	0	0	0
3/8/2025 14:24	12606	MACA_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/8/2025 14:24	14502	SCHO_T1	10	8	-2	0.52	0.6	0.08	0.97	0.96	0	0	0	0	0	0
3/8/2025 14:24	12604	MACA_T1	6	3	-3	0.58	0.33	-0.25	0	0	0	0	0	0	0	0
3/8/2025 14:24	12602	MACA_T1	88	84	-4	0.21	0.24	0.03	0	0	0	0	0	0	0	0
3/8/2025 14:24	14501	SCHO_T1	3	1	-2	0.23	0.3	0.07	0	0	0	0	0	0	0	0
3/8/2025 14:24	12603	MACA_T1	4	3	-1	0.6	0.67	0.07	0	0	0	0	0	0	0	0
3/8/2025 14:24	12601	MACA_T1	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/8/2025 14:24	12605	MACA_T1	2	2	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/8/2025 14:26	14502	SCHO_T1	10	8	-2	0.52	0.6	0.08	0.72	0.72	0	0	0	0	0	0
3/8/2025 14:26	66203	SISP_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/8/2025 14:26	14501	SCHO_T1	3	1	-2	0.23	0.3	0.07	0.17	0.17	0	0	0	0	0	0
3/8/2025 14:28	14501	SCHO_T1	3	1	-2	0.23	0.3	0.07	0	0	0	0	0	0	0	0
3/8/2025 14:28	14502	SCHO_T1	10	8	-2	0.52	0.6	0.08	0.48	0.48	0	0	0	0	0	0
3/8/2025 14:30	45501	DERR_T2	167	171	4	1.32	1.38	0.06	-0.93	-0.88	2	2	0	1800	1800	0
3/8/2025 14:31	51004	NHAR_T1	2	2	0	5.5	5.5	0	0	0	0	0	0	0	0	0
3/8/2025 14:31	51003	NHAR_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
3/8/2025 14:31	51002	NHAR_T1	4	5	1	0.53	0.44	-0.09	0	0	0	0	0	0	0	0
3/8/2025 14:32	45501	DERR_T2	167	171	4	1.32	1.38	0.06	-0.93	-0.88	2	2	0	1800	1800	0
3/8/2025 14:34	52402	GRPA_T2	3	2	-1	0.37	0.45	0.08	0	0	0	0	0	0	0	0
3/8/2025 14:34	52403	GRPA_T2	17	19	2	0.62	0.59	-0.03	-0.66	-0.69	0	0	0	0	0	0
3/8/2025 14:36	65202	PRIN_T1	12	4	-8	0.16	0.2	0.04	0	0	0	0	0	0	0	0
3/8/2025 14:36	65203	PRIN_T1	4	2	-2	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/8/2025 14:36	52403	GRPA_T2	17	19	2	0.62	0.59	-0.03	-0.66	-0.69	0	0	0	0	0	0
3/8/2025 14:36	52402	GRPA_T2	3	2	-1	0.37	0.45	0.08	0	0	0	0	0	0	0	0
3/8/2025 14:36	65205	PRIN_T1	8	4	-4	1.33	0.73	-0.6	0	0	0	0	0	0	0	0
3/8/2025 14:38	66203	SISP_T2	1	1	0	0.1	0.2	0.1	-0.05	-0.05	0	0	0	0	0	0
3/8/2025 14:38	40302	TAMA_T3	13	14	1	0.47	0.41	-0.06	0	0	0	0	0	0	0	0
3/8/2025 14:38	40301	TAMA_T3	5	0	-5	1.1	0.93	-0.17	0	0	0	0	0	0	0	0
3/8/2025 14:38	40303	TAMA_T3	1	1	0	0.2	0.1	-0.1	2.28	2.41	0	0	0	0	0	0
3/8/2025 14:45	40501	CRES_T2	8	14	6	0.3	0.34	0.04	0	0	0	0	0	0	0	0
3/8/2025 14:45	40502	CRES_T2	21	21	0	0.25	0.25	0	0.05	0.05	0	0	0	0	0	0
3/8/2025 14:46	40502	CRES_T2	21	21	0	0.25	0.25	0	0.05	0.05	0	0	0	0	0	0
3/8/2025 14:46	40501	CRES_T2	8	14	6	0.3	0.34	0.04	0	0	0	0	0	0	0	0
3/8/2025 14:46	45501	DERR_T2	168	171	3	1.41	1.42	0.01	-0.88	-0.95	2	2	0	1800	1800	0
3/8/2025 14:47	40501	CRES_T2	8	14	6	0.3	0.34	0.04	0	0	0	0	0	0	0	0
3/8/2025 14:47	40502	CRES_T2	21	21	0	0.25	0.25	0	0	0	0	0	0	0	0	0
3/8/2025 14:48	45501	DERR_T2	168	171	3	1.41	1.42	0.01	-0.88	-0.95	2	2	0	1800	1800	0
3/8/2025 14:52	58302	NOTT_T1	2	0	-2	0.25	0	-0.25	-0.79	-0.78	1	1	0	900	900	0
3/8/2025 14:53	48301	ORWI_T1	4	4	0	2.83	2.83	0	-0.16	-0.17	0	0	0	0	0	0
3/8/2025 14:55	54202	PENN_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/8/2025 14:55	54206	PENN_T2	0	0	0	0	0	0	-0.41	-0.43	0	0	0	0	0	0
3/8/2025 14:58	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 15:00	40201	BEGA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/8/2025 15:02	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 15:06	47101	MARL_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/8/2025 15:06	52403	GRPA_T2	18	9	-9	0.56	0.52	-0.04	-0.68	-0.69	0	0	0	0	0	0
3/8/2025 15:06	47104	MARL_T1	0	0	0	0	0	0	-2.29	-2.29	0	0	0	0	0	0
3/8/2025 15:06	52402	GRPA_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/8/2025 15:07	52403	GRPA_T2	18	9	-9	0.56	0.52	-0.04	-0.69	-0.71	0	0	0	0	0	0
3/8/2025 15:07	52402	GRPA_T2	2	1	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/8/2025 15:20	12605	MACA_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/8/2025 15:20	12603	MACA_T1	3	3	0	0.57	0.43	-0.14	0	0	0	0	0	0	0	0
3/8/2025 15:20	12601	MACA_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/8/2025 15:20	12606	MACA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/8/2025 15:20	12604	MACA_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/8/2025 15:20	12602	MACA_T1	69	109	40	0.17	0.24	0.07	0	0	0	0	0	0	0	0
3/8/2025 15:30	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/8/2025 15:30	54505	ENOL_T2	1	1	0	0.8	0.8	0	-0.66	-0.65	1	1	0	600	600	0
3/8/2025 15:30	62106	ELAN_T1	1	1	0	0.1	0.1	0	-0.03	-0.04	0	0	0	0	0	0
3/8/2025 15:32	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 15:34	54505	ENOL_T2	1	1	0	0.8	0.8	0	-0.66	-0.65	1	1	0	600	600	0
3/8/2025 15:34	54502	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/8/2025 15:48	55002	NEWP_T1	6	5	-1	0.62	0.56	-0.06	-0.21	-0.24	0	0	0	0	0	0
3/8/2025 15:48	55001	NEWP_T1	70	99	29	0.51	0.26	-0.25	0	0	0	0	0	0	0	0
3/8/2025 16:02	45501	DERR_T2	1	3	2	0.1	0	-0.1	-0.71	-0.71	2	2	0	1800	1800	0
3/8/2025 16:03	45501	DERR_T2	1	3	2	0.1	0	-0.1	-0.71	-0.71	2	2	0	1800	1800	0
3/8/2025 16:12	67202	TEHI_T2	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 16:12	67204	TEHI_T2	107	77	-30	0.33	0.17	-0.16	0	0	0	0	0	0	0	0
3/8/2025 16:17	22002	BOHE_T1	0	0	0	0	0	0	0.2	0.26	0	0	0	0	0	0
3/8/2025 16:17	22003	BOHE_T1	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
3/8/2025 16:18	20601	GRWO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/8/2025 16:18	20603	GRWO_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
3/8/2025 16:19	55002	NEWP_T1	3	3	0	0.27	0.47	0.2	-0.27	-0.25	0	0	0	0	0	0
3/8/2025 16:19	55001	NEWP_T1	2	1	-1	0.15	0.6	0.45	0	0	0	0	0	0	0	0
3/8/2025 16:21	55001	NEWP_T1	2	1	-1	0.15	0.6	0.45	0.04	-0.35	0	0	0	0	0	0
3/8/2025 16:21	67605	WARW_T1	15	10	-5	0.47	0.38	-0.09	-1.08	-1.05	0	0	0	0	0	0
3/8/2025 16:21	55002	NEWP_T1	3	3	0	0.27	0.47	0.2	-0.27	-0.25	0	0	0	0	0	0
3/8/2025 16:22	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 16:22	55002	NEWP_T1	3	3	0	0.27	0.47	0.2	0	0	0	0	0	0	0	0
3/8/2025 16:22	55001	NEWP_T1	2	1	-1	0.15	0.6	0.45	-0.35	-0.38	0	0	0	0	0	0
3/8/2025 16:23	55001	NEWP_T1	2	1	-1	0.15	0.6	0.45	-0.35	-0.38	0	0	0	0	0	0
3/8/2025 16:23	55002	NEWP_T1	3	3	0	0.27	0.47	0.2	0	0	0	0	0	0	0	0
3/8/2025 16:24	55001	NEWP_T1	2	1	-1	0.15	0.6	0.45	-0.35	-0.38	0	0	0	0	0	0
3/8/2025 16:24	55002	NEWP_T1	3	3	0	0.27	0.47	0.2	0	0	0	0	0	0	0	0
3/8/2025 16:32	40101	HUNT_T2	0	0	0	0	0	0	-1.51	-1.48	0	0	0	0	0	0
3/8/2025 16:38	52502	PROG_T2	0	0	0	0	0	0	-0.68	-0.67	1	1	0	900	900	0
3/8/2025 16:40	16605	PONO_T1	0	0	0	0	0	0	-0.95	-0.89	1	1	0	1200	1200	0
3/8/2025 16:56	60801	BUCK_T1	0	0	0	0	0	0	-0.44	-0.92	0	1	1	0	600	600
3/8/2025 16:59	60801	BUCK_T1	0	0	0	0	0	0	-0.44	-0.92	0	1	1	0	600	600
3/8/2025 17:06	24201	PROV_T3	3	3	0	5.63	5.43	-0.2	-1.46	-1.45	1	1	0	1200	1200	0
3/8/2025 17:06	12602	MACA_T1	9	41	32	0.16	0.2	0.04	0	0	0	0	0	0	0	0
3/8/2025 17:06	12605	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 17:06	24204	PROV_T3	1	2	1	5.9	2.8	-3.1	0	0	0	0	0	0	0	0
3/8/2025 17:08	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
3/8/2025 17:21	52401	GRPA_T2	0	2	2	0	0	0	-1.02	-0.99	0	0	0	0	0	0
3/8/2025 17:21	52403	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 20:17	23401	HONE_T2	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
3/8/2025 20:40	44802	EDAN_T2	0	0	0	0	0	0	-2.3	-2.26	0	0	0	0	0	0
3/8/2025 20:40	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 20:43	53501	EVIL_T2	2	1	-1	0.35	0.8	0.45	0	0	0	0	0	0	0	0
3/8/2025 20:45	53501	EVIL_T2	1	2	1	0.8	0.45	-0.35	-0.58	-0.6	0	0	0	0	0	0
3/8/2025 20:46	53501	EVIL_T2	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
3/8/2025 20:48	16103	BING_T2	0	0	0	0	0	0	-1.08	-1.08	2	2	0	1500	1500	0
3/8/2025 21:02	12605	MACA_T1	0	0	0	0	0	0	0.2	0.22	0	0	0	0	0	0
3/8/2025 21:02	26401	INOR_T1	6	2	-4	1.95	6.05	4.1	0.54	0.54	0	0	0	0	0	0
3/8/2025 21:02	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:02	12602	MACA_T1	5	18	13	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/8/2025 21:02	11103	EGYP_T1	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
3/8/2025 21:02	11104	EGYP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/8/2025 21:02	11101	EGYP_T1	1	0	-1	1.5	0	-1.5	0	0	0	0	0	0	0	0
3/8/2025 21:03	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:04	40502	CRES_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 21:04	61701	ELIZ_T1	1	1	0	4.8	4.9	0.1	-0.44	-0.51	0	0	0	0	0	0
3/8/2025 21:04	40501	CRES_T2	2	7	5	0.1	0.21	0.11	0	0	0	0	0	0	0	0
3/8/2025 21:04	16101	BING_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
3/8/2025 21:04	46002	BERW_T2	0	0	0	0	0	0	-1.52	-1.5	1	1	0	900	900	0
3/8/2025 21:04	13302	ORVI_T2	0	0	0	0	0	0	1.32	1.26	0	0	0	0	0	0
3/8/2025 21:05	17802	GILB_T1	0	0	0	0	0	0	-0.02	-0.08	0	0	0	0	0	0
3/8/2025 21:05	40303	TAMA_T3	0	0	0	0	0	0	2.64	2.81	0	0	0	0	0	0
3/8/2025 21:05	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:05	40302	TAMA_T3	3	3	0	0.13	0.2	0.07	0	0	0	0	0	0	0	0
3/8/2025 21:06	14801	TREI_T2	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
3/8/2025 21:06	26402	INOR_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
3/8/2025 21:06	26401	INOR_T1	6	2	-4	1.95	6.05	4.1	0	0	0	0	0	0	0	0
3/8/2025 21:06	16302	ALPA_T2	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
3/8/2025 21:06	12602	MACA_T1	5	18	13	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/8/2025 21:06	40201	BEGA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:06	20603	GRWO_T2	0	1	1	0	0.1	0.1	0.4	0.41	0	0	0	0	0	0
3/8/2025 21:06	15704	TANN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:06	12604	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:06	15701	TANN_T1	1	1	0	3.4	3.7	0.3	0	0	0	0	0	0	0	0
3/8/2025 21:06	17401	FOHI_T1	0	0	0	0	0	0	-0.99	-0.98	0	0	0	0	0	0
3/8/2025 21:06	60801	BUCK_T1	0	0	0	0	0	0	-0.89	-0.93	1	1	0	600	600	0
3/8/2025 21:07	61306	EARL_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/8/2025 21:07	63501	HEID_TBK1-2	34	36	2	0.42	0.65	0.23	-0.52	-0.51	1	1	0	900	900	0
3/8/2025 21:07	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:07	43401	BENT_T1	2	3	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/8/2025 21:07	43402	BENT_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	900	900	0
3/8/2025 21:08	67204	TEHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:08	63501	HEID_TBK1-2	34	36	2	0.42	0.65	0.23	-0.52	-0.51	1	1	0	900	900	0
3/8/2025 21:08	12605	MACA_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
3/8/2025 21:08	12604	MACA_T1	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
3/8/2025 21:08	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 21:08	61304	EARL_T1	0	0	0	0	0	0	-0.34	-0.39	0	0	0	0	0	0
3/8/2025 21:08	12602	MACA_T1	5	18	13	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/8/2025 21:08	22002	BOHE_T1	0	0	0	0	0	0	0.29	0.28	0	0	0	0	0	0
3/8/2025 21:08	64204	KINZ_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
3/8/2025 21:08	64201	KINZ_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/8/2025 21:08	22003	BOHE_T1	1	3	2	0.4	0.43	0.03	0	0	0	0	0	0	0	0
3/8/2025 21:08	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:08	14502	SCHO_T1	0	0	0	0	0	0	0.52	0.56	0	0	0	0	0	0
3/8/2025 21:08	16302	ALPA_T2	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
3/8/2025 21:08	48301	ORWI_T1	2	2	0	4.35	4.6	0.25	-0.11	-0.11	0	0	0	0	0	0
3/8/2025 21:08	44901	SCOT_T2	0	0	0	0	0	0	-1.03	-1.09	0	0	0	0	0	0
3/8/2025 21:09	40602	PIGR_T1	0	0	0	0	0	0	-1.99	-1.98	1	1	0	600	600	0
3/8/2025 21:09	40505	CRES_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
3/8/2025 21:09	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:09	41902	REED_T1	4	0	-4	0.68	0	-0.68	0	0	0	0	0	0	0	0
3/8/2025 21:09	17802	GILB_T1	0	0	0	0	0	0	-0.08	-0.02	0	0	0	0	0	0
3/8/2025 21:09	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
3/8/2025 21:09	41901	REED_T1	1	4	3	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
3/8/2025 21:09	60101	COCA_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
3/8/2025 21:10	51107	CARL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 21:10	67204	TEHI_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
3/8/2025 21:10	60301	TWVA_T2	0	0	0	0	0	0	-3.16	-3.24	2	2	0	1800	1800	0
3/8/2025 21:10	64203	KINZ_T1	0	0	0	0	0	0	-0.45	-0.54	1	1	0	600	600	0
3/8/2025 21:10	13303	ORVI_T1	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
3/8/2025 21:10	26402	INOR_T1	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
3/8/2025 21:10	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:10	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 21:10	12605	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:10	12604	MACA_T1	0	0	0	0	0	0	0.62	0.7	0	0	0	0	0	0
3/8/2025 21:10	64204	KINZ_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
3/8/2025 21:10	40201	BEGA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:10	54201	PENN_T1	10	12	2	0.81	0.83	0.02	-1.47	-1.4	0	0	0	0	0	0
3/8/2025 21:10	26401	INOR_T1	6	2	-4	1.95	6.05	4.1	0	0	0	0	0	0	0	0
3/8/2025 21:10	64201	KINZ_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/8/2025 21:10	54203	PENN_T1	18	18	0	0.56	0.8	0.24	0	0	0	0	0	0	0	0
3/8/2025 21:10	12602	MACA_T1	5	18	13	0.1	0.15	0.05	-0.85	-0.84	0	0	0	0	0	0
3/8/2025 21:10	51101	CARL_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
3/8/2025 21:10	40502	CRES_T2	0	1	1	0	0.1	0.1	0.06	0.08	0	0	0	0	0	0
3/8/2025 21:10	40501	CRES_T2	2	7	5	0.1	0.21	0.11	0	0	0	0	0	0	0	0
3/8/2025 21:11	51003	NHAR_T1	1	1	0	7.3	6.8	-0.5	0	0	0	0	0	0	0	0
3/8/2025 21:11	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	0.02	0.02	0	0	0	0	0	0
3/8/2025 21:11	44505	HAMI_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
3/8/2025 21:11	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
3/8/2025 21:11	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/8/2025 21:11	61304	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:11	51004	NHAR_T1	2	2	0	6.05	5.8	-0.25	0	0	0	0	0	0	0	0
3/8/2025 21:11	40501	CRES_T2	2	7	5	0.1	0.21	0.11	0	0	0	0	0	0	0	0
3/8/2025 21:11	51002	NHAR_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
3/8/2025 21:11	40502	CRES_T2	0	1	1	0	0.1	0.1	0.06	0.08	0	0	0	0	0	0
3/8/2025 21:11	45501	DERR_T2	0	0	0	0	0	0	-0.85	-0.82	2	2	0	1800	1800	0
3/8/2025 21:11	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:11	63802	HEMP_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
3/8/2025 21:11	40505	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:11	60101	COCA_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
3/8/2025 21:11	67204	TEHI_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
3/8/2025 21:12	54201	PENN_T1	10	12	2	0.81	0.83	0.02	0	0	0	0	0	0	0	0
3/8/2025 21:12	63501	HEID_TBK1-2	34	36	2	0.42	0.65	0.23	-0.52	-0.51	1	1	0	900	900	0
3/8/2025 21:12	14603	SWHI_T1	0	0	0	0	0	0	-3	-2.97	3	3	0	1800	1800	0
3/8/2025 21:12	14502	SCHO_T1	0	0	0	0	0	0	0.52	0.56	0	0	0	0	0	0
3/8/2025 21:12	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:12	14802	TREI_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
3/8/2025 21:12	66504	SMAN_T2	0	0	0	0	0	0	-0.62	-0.69	0	0	0	0	0	0
3/8/2025 21:12	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:12	10801	CHHI_T1	0	0	0	0	0	0	-2.16	-2.15	3	3	0	2100	2100	0
3/8/2025 21:12	22602	KIMB_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
3/8/2025 21:12	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:12	63602	LETO_T1	0	0	0	0	0	0	-0.56	-0.62	0	0	0	0	0	0
3/8/2025 21:12	64204	KINZ_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
3/8/2025 21:12	61304	EARL_T1	0	0	0	0	0	0	-0.34	-0.39	0	0	0	0	0	0
3/8/2025 21:12	12604	MACA_T1	0	0	0	0	0	0	0.31	0.35	0	0	0	0	0	0
3/8/2025 21:12	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 21:12	64401	LAND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:12	12602	MACA_T1	5	18	13	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/8/2025 21:12	44904	SCOT_T1	0	0	0	0	0	0	0.63	0.53	0	0	0	0	0	0
3/8/2025 21:12	54505	ENOL_T2	0	0	0	0	0	0	-0.65	-0.65	1	1	0	600	600	0
3/8/2025 21:12	40201	BEGA_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:12	66505	SMAN_T2	3	3	0	0.43	1.2	0.77	0	0	0	0	0	0	0	0
3/8/2025 21:12	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:12	63803	HEMP_T1	0	0	0	0	0	0	0.43	0.48	0	0	0	0	0	0
3/8/2025 21:12	52404	GRPA_T2	0	0	0	0	0	0	-0.32	-0.37	0	0	0	0	0	0
3/8/2025 21:12	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
3/8/2025 21:12	64201	KINZ_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/8/2025 21:12	60801	BUCK_T1	0	0	0	0	0	0	-0.89	-0.93	1	1	0	600	600	0
3/8/2025 21:12	54203	PENN_T1	18	18	0	0.56	0.8	0.24	-0.1	-0.05	0	0	0	0	0	0
3/8/2025 21:12	52403	GRPA_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/8/2025 21:12	44201	POIN_T1	0	0	0	0	0	0	-1.96	-1.98	1	1	0	1200	1200	0
3/8/2025 21:13	40505	CRES_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
3/8/2025 21:13	64201	KINZ_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/8/2025 21:13	48302	ORWI_T2	2	2	0	0.6	0.7	0.1	-0.09	-0.1	0	0	0	0	0	0
3/8/2025 21:13	64202	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 21:13	23401	HONE_T2	0	0	0	0	0	0	-0.45	-0.42	0	0	0	0	0	0
3/8/2025 21:13	64204	KINZ_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
3/8/2025 21:13	44802	EDAN_T2	0	0	0	0	0	0	-4.56	-4.56	0	0	0	0	0	0
3/8/2025 21:13	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
3/8/2025 21:13	60201	ATGL_T2	0	0	0	0	0	0	-0.39	-0.49	0	0	0	0	0	0
3/8/2025 21:13	66505	SMAN_T2	3	3	0	0.43	1.2	0.77	0	0	0	0	0	0	0	0
3/8/2025 21:13	67603	WARW_T1	0	0	0	0	0	0	-0.03	-0.03	0	0	0	0	0	0
3/8/2025 21:13	64203	KINZ_T1	0	0	0	0	0	0	-0.45	-0.54	1	1	0	600	600	0
3/8/2025 21:13	44201	POIN_T1	0	0	0	0	0	0	-3.91	-3.96	2	2	0	2400	2400	0
3/8/2025 21:13	21203	ECAR_T1	0	0	0	0	0	0	-0.49	-0.49	0	0	0	0	0	0
3/8/2025 21:13	64101	REFR_T1	0	0	0	0	0	0	-0.24	-0.34	0	0	0	0	0	0
3/8/2025 21:13	63601	LETO_T1	0	0	0	0	0	0	0.53	0.67	1	1	0	900	900	0
3/8/2025 21:13	63501	HEID_TBK1-2	34	36	2	0.42	0.65	0.23	-0.52	-0.51	1	1	0	900	900	0
3/8/2025 21:13	21403	EKET_T2	0	0	0	0	0	0	-1.41	-1.43	0	0	0	0	0	0
3/8/2025 21:13	44801	EDAN_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/8/2025 21:13	67204	TEHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:13	44902	SCOT_T2	0	0	0	0	0	0	-0.95	-0.97	0	0	0	0	0	0
3/8/2025 21:13	61302	EARL_T1	0	0	0	0	0	0	-0.04	-0.01	1	1	0	1200	1200	0
3/8/2025 21:13	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:13	66504	SMAN_T2	0	0	0	0	0	0	-0.62	-0.69	0	0	0	0	0	0
3/8/2025 21:13	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:13	44505	HAMI_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
3/8/2025 21:13	55002	NEWP_T1	1	3	2	0.1	0.43	0.33	-0.25	-0.24	0	0	0	0	0	0
3/8/2025 21:13	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:14	44505	HAMI_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
3/8/2025 21:14	24101	EHAZ_T1	27	20	-7	1.68	0.76	-0.92	0	0	0	0	0	0	0	0
3/8/2025 21:14	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:14	40501	CRES_T2	2	7	5	0.1	0.21	0.11	0	0	0	0	0	0	0	0
3/8/2025 21:14	40504	CRES_T1	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
3/8/2025 21:14	60101	COCA_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
3/8/2025 21:14	12605	MACA_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
3/8/2025 21:14	24104	EHAZ_T1	0	0	0	0	0	0	-2.21	-2.23	1	1	0	1200	1200	0
3/8/2025 21:14	40502	CRES_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 21:14	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
3/8/2025 21:14	41202	KENM_T2	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
3/8/2025 21:14	42601	TUSC_T1	2	0	-2	0.1	0	-0.1	-0.58	-0.67	2	2	0	1800	1800	0
3/8/2025 21:14	14501	SCHO_T1	0	0	0	0	0	0	0.21	0.23	0	0	0	0	0	0
3/8/2025 21:14	45501	DERR_T2	0	0	0	0	0	0	-2.54	-2.46	6	6	0	5400	5400	0
3/8/2025 21:14	65205	PRIN_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 21:14	10801	CHHI_T1	0	0	0	0	0	0	-2.16	-2.15	3	3	0	2100	2100	0
3/8/2025 21:14	54203	PENN_T1	18	18	0	0.56	0.8	0.24	0	0	0	0	0	0	0	0
3/8/2025 21:14	54201	PENN_T1	10	12	2	0.81	0.83	0.02	-2.94	-2.81	0	0	0	0	0	0
3/8/2025 21:14	14802	TREI_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
3/8/2025 21:14	67601	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:14	11804	FRAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:14	60102	COCA_T1	0	0	0	0	0	0	-0.66	-0.7	2	2	0	1200	1200	0
3/8/2025 21:14	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:14	62106	ELAN_T1	0	0	0	0	0	0	-0.01	-0.03	0	0	0	0	0	0
3/8/2025 21:14	63802	HEMP_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
3/8/2025 21:14	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:14	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
3/8/2025 21:14	12602	MACA_T1	5	18	13	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/8/2025 21:14	14502	SCHO_T1	0	0	0	0	0	0	0.78	0.84	0	0	0	0	0	0
3/8/2025 21:14	66505	SMAN_T2	3	3	0	0.43	1.2	0.77	0	0	0	0	0	0	0	0
3/8/2025 21:14	24105	EHAZ_T1	6	6	0	4.62	6.33	1.71	0	0	0	0	0	0	0	0
3/8/2025 21:14	24102	EHAZ_T1	6	25	19	0.63	0.95	0.32	0	0	0	0	0	0	0	0
3/8/2025 21:14	16302	ALPA_T2	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
3/8/2025 21:14	60201	ATGL_T2	0	0	0	0	0	0	-0.39	-0.49	0	0	0	0	0	0
3/8/2025 21:14	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:14	12606	MACA_T1	0	0	0	0	0	0	-0.32	-0.3	1	1	0	900	900	0
3/8/2025 21:14	13303	ORVI_T1	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
3/8/2025 21:15	40201	BEGA_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/8/2025 21:15	46203	DANV_T2	48	51	3	0.36	0.34	-0.02	-2.25	-2.23	0	0	0	0	0	0
3/8/2025 21:15	44801	EDAN_T2	1	0	-1	0	0	0	-0.88	-0.94	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/8/2025 21:15	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.17	0	0	0	0	0	0
3/8/2025 21:15	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:15	44902	SCOT_T2	0	0	0	0	0	0	-0.95	-0.97	0	0	0	0	0	0
3/8/2025 21:15	22602	KIMB_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
3/8/2025 21:15	67203	TEHI_T1	0	0	0	0	0	0	0.99	0.99	0	0	0	0	0	0
3/8/2025 21:15	63804	HEMP_T1	1	0	0	5.6	5.6	0	0	0	0	0	0	0	0	0
3/8/2025 21:15	44201	POIN_T1	0	0	0	0	0	0	-1.96	-1.98	1	1	0	1200	1200	0
3/8/2025 21:15	52404	GRPA_T2	0	0	0	0	0	0	-0.32	-0.37	0	0	0	0	0	0
3/8/2025 21:15	54206	PENN_T2	0	0	0	0	0	0	-0.49	-0.46	0	0	0	0	0	0
3/8/2025 21:15	63803	HEMP_T1	0	0	0	0	0	0	0.43	0.48	0	0	0	0	0	0
3/8/2025 21:15	24204	PROV_T3	2	2	0	3	2.95	-0.05	0	0	0	0	0	0	0	0
3/8/2025 21:15	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:15	67402	WAKE_T2	0	0	0	0	0	0	-1.31	-1.28	3	3	0	1800	1800	0
3/8/2025 21:15	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:15	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:15	66504	SMAN_T2	0	0	0	0	0	0	-0.62	-0.69	0	0	0	0	0	0
3/8/2025 21:15	40505	CRES_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
3/8/2025 21:15	66505	SMAN_T2	3	3	0	1.1	1.17	0.07	0	0	0	0	0	0	0	0
3/8/2025 21:15	63802	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:15	21206	ECAR_T2	1	1	0	7.4	8.1	0.7	-0.15	-0.16	0	0	0	0	0	0
3/8/2025 21:15	61303	EARL_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
3/8/2025 21:15	40101	HUNT_T2	0	0	0	0	0	0	-1.41	-1.43	0	0	0	0	0	0
3/8/2025 21:15	44201	POIN_T3	3	5	2	5.6	3.36	-2.24	-1.43	-1.49	1	1	0	1200	1200	0
3/8/2025 21:15	63501	HEID_TBK1-2	36	35	-1	0.64	0.44	-0.2	-0.52	-0.51	1	1	0	900	900	0
3/8/2025 21:15	60801	BUCK_T1	0	0	0	0	0	0	-1.78	-1.86	2	2	0	1200	1200	0
3/8/2025 21:16	14502	SCHO_T1	0	0	0	0	0	0	0.52	0.56	0	0	0	0	0	0
3/8/2025 21:16	47101	MARL_T1	3	2	-1	1.17	0	-1.17	0	0	0	0	0	0	0	0
3/8/2025 21:16	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
3/8/2025 21:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:16	40101	HUNT_T2	0	0	0	0	0	0	-1.41	-1.43	0	0	0	0	0	0
3/8/2025 21:16	12602	MACA_T1	5	18	13	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
3/8/2025 21:16	47104	MARL_T1	0	0	0	0	0	0	-2.24	-2.2	0	0	0	0	0	0
3/8/2025 21:16	61301	EARL_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
3/8/2025 21:16	14802	TREI_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
3/8/2025 21:16	66505	SMAN_T2	3	3	0	1.1	1.17	0.07	0	0	0	0	0	0	0	0
3/8/2025 21:16	54505	ENOL_T2	0	0	0	0	0	0	-0.65	-0.65	1	1	0	600	600	0
3/8/2025 21:16	66504	SMAN_T2	0	0	0	0	0	0	-0.62	-0.69	0	0	0	0	0	0
3/8/2025 21:16	13302	ORVI_T2	0	0	0	0	0	0	2.53	2.75	0	0	0	0	0	0
3/8/2025 21:16	40504	CRES_T1	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
3/8/2025 21:16	44505	HAMI_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
3/8/2025 21:16	54504	ENOL_T2	0	0	0	0	0	0	-1.07	-1.05	1	1	0	600	600	0
3/8/2025 21:16	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:16	12605	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:16	10801	CHHI_T1	0	0	0	0	0	0	-2.16	-2.15	3	3	0	2100	2100	0
3/8/2025 21:17	64403	LAND_T1	0	0	0	0	0	0	-1.9	-1.91	1	1	0	900	900	0
3/8/2025 21:17	40505	CRES_T1	0	0	0	0	0	0	0.27	0.26	0	0	0	0	0	0
3/8/2025 21:17	45501	DERR_T2	0	0	0	0	0	0	-1.69	-1.64	4	4	0	3600	3600	0
3/8/2025 21:17	51107	CARL_T1	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/8/2025 21:17	46004	BERW_T2	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
3/8/2025 21:17	63801	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:17	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:17	64202	KINZ_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/8/2025 21:17	64402	LAND_T2	0	0	0	0	0	0	-0.73	-0.75	1	1	0	600	600	0
3/8/2025 21:17	64203	KINZ_T1	0	0	0	0	0	0	-0.45	-0.54	1	1	0	600	600	0
3/8/2025 21:17	40502	CRES_T2	1	0	-1	0.1	0	-0.1	0.06	0.08	0	0	0	0	0	0
3/8/2025 21:17	51102	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:17	61302	EARL_T1	0	0	0	0	0	0	-0.04	-0.01	1	1	0	1200	1200	0
3/8/2025 21:17	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:17	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/8/2025 21:17	67201	TEHI_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
3/8/2025 21:17	41602	CLEV_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:17	66505	SMAN_T2	3	3	0	1.1	1.17	0.07	0	0	0	0	0	0	0	0
3/8/2025 21:17	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
3/8/2025 21:17	51101	CARL_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
3/8/2025 21:17	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:17	47403	PENS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:17	64401	LAND_T1	0	0	0	0	0	0	-1.13	-1.16	1	1	0	600	600	0
3/8/2025 21:17	67402	WAKE_T2	0	0	0	0	0	0	-0.44	-0.43	1	1	0	600	600	0
3/8/2025 21:17	54203	PENN_T1	18	18	0	0.77	0.81	0.04	-0.1	-0.05	0	0	0	0	0	0
3/8/2025 21:17	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.81	0	0	0	0	0	0
3/8/2025 21:17	64101	REFR_T1	0	0	0	0	0	0	-0.12	-0.17	0	0	0	0	0	0
3/8/2025 21:17	40201	BEGA_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/8/2025 21:17	64201	KINZ_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/8/2025 21:17	40501	CRES_T2	3	7	4	0.2	0.21	0.01	0	0	0	0	0	0	0	0
3/8/2025 21:17	61301	EARL_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
3/8/2025 21:17	54201	PENN_T1	9	12	3	1.02	0.84	-0.18	0	0	0	0	0	0	0	0
3/8/2025 21:17	63804	HEMP_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
3/8/2025 21:18	45501	DERR_T2	0	0	0	0	0	0	-0.85	-0.82	2	2	0	1800	1800	0
3/8/2025 21:18	12602	MACA_T1	5	18	13	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
3/8/2025 21:18	67502	WEWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:18	58302	NOTT_T1	0	0	0	0	0	0	-0.8	-0.84	1	1	0	900	900	0
3/8/2025 21:18	40501	CRES_T2	3	7	4	0.2	0.21	0.01	0	0	0	0	0	0	0	0
3/8/2025 21:18	52502	PROG_T2	0	0	0	0	0	0	-0.56	-0.55	1	1	0	900	900	0
3/8/2025 21:18	64201	KINZ_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/8/2025 21:18	60801	BUCK_T1	0	0	0	0	0	0	-0.89	-0.93	1	1	0	600	600	0
3/8/2025 21:18	63804	HEMP_T1	1	1	0	5.6	5.6	0	0.73	0.7	0	0	0	0	0	0
3/8/2025 21:18	13303	ORVI_T1	0	0	0	0	0	0	0.51	0.53	0	0	0	0	0	0
3/8/2025 21:18	40502	CRES_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/8/2025 21:18	20601	GRWO_T2	0	4	4	0	0.1	0.1	-0.23	-0.25	0	0	0	0	0	0
3/8/2025 21:18	63501	HEID_TBK1-2	36	35	-1	0.64	0.44	-0.2	-0.52	-0.51	1	1	0	900	900	0
3/8/2025 21:18	64203	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
3/8/2025 21:18	58102	NEKI_T1	1	1	0	0.5	0.6	0.1	-1.21	-1.2	1	1	0	1200	1200	0
3/8/2025 21:18	46004	BERW_T2	0	0	0	0	0	0	-0.8	-0.81	0	0	0	0	0	0
3/8/2025 21:18	16302	ALPA_T2	0	0	0	0	0	0	0.45	0.48	0	0	0	0	0	0
3/8/2025 21:18	12606	MACA_T1	0	0	0	0	0	0	-0.32	-0.3	1	1	0	900	900	0
3/8/2025 21:18	20603	GRWO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 21:18	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:18	46203	DANV_T2	48	51	3	0.36	0.34	-0.02	-2.25	-2.23	0	0	0	0	0	0
3/8/2025 21:18	17002	RIRO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:18	54506	ENOL_T2	0	0	0	0	0	0	-1.45	-1.47	0	0	0	0	0	0
3/8/2025 21:18	66203	SISP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:18	46801	HEPB_T2	2	2	0	0.2	0.5	0.3	0.54	0.52	0	0	0	0	0	0
3/8/2025 21:18	64202	KINZ_T1	2	1	-1	0.1	0.1	0	0.29	0.32	0	0	0	0	0	0
3/8/2025 21:19	43402	BENT_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	900	900	0
3/8/2025 21:19	64401	LAND_T1	0	0	0	0	0	0	-1.13	-1.16	1	1	0	600	600	0
3/8/2025 21:19	44201	POIN_T1	0	0	0	0	0	0	-1.96	-1.98	1	1	0	1200	1200	0
3/8/2025 21:19	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:19	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:19	54505	ENOL_T2	0	0	0	0	0	0	-0.65	-0.65	1	1	0	600	600	0
3/8/2025 21:19	67605	WARW_T1	0	0	0	0	0	0	-1.56	-1.61	0	0	0	0	0	0
3/8/2025 21:19	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:19	63501	HEID_TBK1-2	36	35	-1	0.64	0.44	-0.2	-0.52	-0.51	1	1	0	900	900	0
3/8/2025 21:19	43401	BENT_T1	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
3/8/2025 21:19	52001	LING_T1	0	0	0	0	0	0	-1.02	-1.05	0	0	0	0	0	0
3/8/2025 21:19	20603	GRWO_T2	0	1	1	0	0.1	0.1	0.4	0.41	0	0	0	0	0	0
3/8/2025 21:19	20601	GRWO_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/8/2025 21:19	58401	MORO_T1	0	0	0	0	0	0	-1.16	-1.14	1	1	0	600	600	0
3/8/2025 21:20	52403	GRPA_T2	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
3/8/2025 21:20	46203	DANV_T2	48	51	3	0.36	0.34	-0.02	-4.5	-4.46	0	0	0	0	0	0
3/8/2025 21:20	60103	COCA_T2	0	0	0	0	0	0	-1.05	-1.04	0	0	0	0	0	0
3/8/2025 21:20	66502	SMAN_T2	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
3/8/2025 21:20	52401	GRPA_T2	0	0	0	0	0	0	-2.73	-2.73	0	0	0	0	0	0
3/8/2025 21:20	40501	CRES_T2	3	7	4	0.2	0.21	0.01	0	0	0	0	0	0	0	0
3/8/2025 21:20	66505	SMAN_T2	3	3	0	1.1	1.17	0.07	0	0	0	0	0	0	0	0
3/8/2025 21:20	52502	PROG_T2	0	0	0	0	0	0	-0.56	-0.55	1	1	0	900	900	0
3/8/2025 21:20	64101	REFR_T1	0	0	0	0	0	0	-0.24	-0.34	0	0	0	0	0	0
3/8/2025 21:20	40502	CRES_T2	1	0	-1	0.1	0	-0.1	0.06	0.08	0	0	0	0	0	0
3/8/2025 21:20	67605	WARW_T1	0	0	0	0	0	0	-0.78	-0.81	0	0	0	0	0	0
3/8/2025 21:20	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:20	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:20	58401	MORO_T1	0	0	0	0	0	0	-2.32	-2.28	2	2	0	1200	1200	0
3/8/2025 21:20	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:20	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
3/8/2025 21:20	16605	PONO_T1	0	0	0	0	0	0	-0.8	-0.86	1	1	0	1200	1200	0
3/8/2025 21:21	44801	EDAN_T2	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:21	63501	HEID_TBK1-2	36	35	-1	0.64	0.44	-0.2	-0.51	-0.52	1	1	0	900	900	0
3/8/2025 21:21	64203	KINZ_T1	0	0	0	0	0	0	-0.54	-0.5	1	1	0	600	600	0
3/8/2025 21:21	55002	NEWP_T1	2	3	1	0.35	0.43	0.08	-0.25	-0.24	0	0	0	0	0	0
3/8/2025 21:21	64204	KINZ_T1	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
3/8/2025 21:21	64201	KINZ_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/8/2025 21:21	64101	REFR_T1	0	0	0	0	0	0	-0.51	-0.28	0	0	0	0	0	0
3/8/2025 21:21	40201	BEGA_T2	2	0	-2	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/8/2025 21:21	64202	KINZ_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/8/2025 21:21	44901	SCOT_T2	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
3/8/2025 21:21	66505	SMAN_T2	3	3	0	1.1	1.17	0.07	0	0	0	0	0	0	0	0
3/8/2025 21:21	40505	CRES_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
3/8/2025 21:21	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:21	63804	HEMP_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
3/8/2025 21:21	63801	HEMP_T1	0	0	0	0	0	0	-0.42	-0.45	0	0	0	0	0	0
3/8/2025 21:21	66504	SMAN_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
3/8/2025 21:22	63804	HEMP_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
3/8/2025 21:22	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:22	52403	GRPA_T2	0	0	0	0	0	0	-0.54	-0.6	0	0	0	0	0	0
3/8/2025 21:22	45501	DERR_T2	0	0	0	0	0	0	-1.64	-1.72	4	4	0	3600	3600	0
3/8/2025 21:22	63801	HEMP_T1	0	0	0	0	0	0	-0.42	-0.45	0	0	0	0	0	0
3/8/2025 21:22	55105	WERT_T1	0	0	0	0	0	0	-0.6	-0.6	1	1	0	900	900	0
3/8/2025 21:23	58402	MORO_T1	0	0	0	0	0	0	-0.82	-0.78	3	3	0	1950	1950	0
3/8/2025 21:23	61301	EARL_T1	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
3/8/2025 21:23	52403	GRPA_T2	0	0	0	0	0	0	-0.54	-0.6	0	0	0	0	0	0
3/8/2025 21:23	61304	EARL_T1	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
3/8/2025 21:24	67402	WAKE_T2	0	0	0	0	0	0	-0.43	-0.45	1	1	0	600	600	0
3/8/2025 21:24	45501	DERR_T2	0	0	0	0	0	0	-0.82	-0.86	2	2	0	1800	1800	0
3/8/2025 21:24	44201	POIN_T1	0	0	0	0	0	0	-1.98	-2.02	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/8/2025 21:24	12602	MACA_T1	5	18	13	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
3/8/2025 21:24	12605	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:25	44301	BEAV_T2	2	0	-2	0.15	0	-0.15	-0.41	-0.43	1	1	0	600	600	0
3/8/2025 21:25	54203	PENN_T1	18	18	0	0.77	0.81	0.04	0	0	0	0	0	0	0	0
3/8/2025 21:25	54201	PENN_T1	9	12	3	1.02	0.84	-0.18	-1.4	-1.46	0	0	0	0	0	0
3/8/2025 21:26	52403	GRPA_T2	0	0	0	0	0	0	-0.54	-0.6	0	0	0	0	0	0
3/8/2025 21:26	66505	SMAN_T2	3	3	0	1.1	1.17	0.07	0	0	0	0	0	0	0	0
3/8/2025 21:26	66504	SMAN_T2	0	0	0	0	0	0	-0.69	-0.67	0	0	0	0	0	0
3/8/2025 21:26	44301	BEAV_T2	2	0	-2	0.15	0	-0.15	-0.41	-0.43	1	1	0	600	600	0
3/8/2025 21:26	45501	DERR_T2	0	0	0	0	0	0	-0.82	-0.86	2	2	0	1800	1800	0
3/8/2025 21:26	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:28	46002	BERW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:29	44301	BEAV_T2	2	0	-2	0.15	0	-0.15	-0.41	-0.43	1	1	0	600	600	0
3/8/2025 21:30	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/8/2025 21:39	60101	COCA_T1	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
3/8/2025 21:42	63802	HEMP_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
3/8/2025 21:42	63804	HEMP_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
3/8/2025 22:24	14502	SCHO_T1	0	0	0	0	0	0	0.25	0.26	0	0	0	0	0	0
3/9/2025 0:36	52401	GRPA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/9/2025 0:36	52402	GRPA_T2	2	2	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
3/9/2025 0:36	52403	GRPA_T2	0	1	1	0	0.1	0.1	-0.73	-0.68	0	0	0	0	0	0
3/9/2025 1:37	40501	CRES_T2	11	8	-3	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
3/9/2025 1:37	40502	CRES_T2	18	24	6	0.29	0.36	0.07	0	0	0	0	0	0	0	0
3/9/2025 2:43	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 2:44	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 2:46	55002	NEWP_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
3/9/2025 2:46	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 2:49	60102	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 8:09	47401	PENS_T1	0	0	0	0	0	0	0.68	0.65	0	0	0	0	0	0
3/9/2025 8:12	40201	BEGA_T2	1	2	1	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/9/2025 8:22	44902	SCOT_T2	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
3/9/2025 8:23	65202	PRIN_T1	5	16	11	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
3/9/2025 8:23	65803	RTWN_T2	7	6	-1	0.13	0.17	0.04	0	0	0	0	0	0	0	0
3/9/2025 8:23	65203	PRIN_T1	12	19	7	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
3/9/2025 8:23	65205	PRIN_T1	3	7	4	1	0.39	-0.61	0	0	0	0	0	0	0	0
3/9/2025 8:23	65802	RTWN_T2	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
3/9/2025 8:27	40201	BEGA_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 8:29	40201	BEGA_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 8:30	63501	HEID_TBK1-2	48	60	12	0.33	0.36	0.03	-0.4	-0.42	1	1	0	900	900	0
3/9/2025 8:30	22002	BDNE_T1	0	0	0	0	0	0	0.37	0.35	0	0	0	0	0	0
3/9/2025 8:30	16101	BING_T2	0	0	0	0	0	0	0.43	0.44	0	0	0	0	0	0
3/9/2025 8:31	53501	EVIL_T2	1	2	1	1	0.55	-0.45	0	0	0	0	0	0	0	0
3/9/2025 8:33	63501	HEID_TBK1-2	48	60	12	0.33	0.36	0.03	-0.8	-0.85	2	2	0	1800	1800	0
3/9/2025 8:35	44201	POIN_T1	99	157	58	0.25	0.32	0.07	-2.21	-2.16	1	1	0	1200	1200	0
3/9/2025 8:36	44201	POIN_T1	99	157	58	0.25	0.32	0.07	-2.16	-2.21	1	1	0	1200	1200	0
3/9/2025 8:36	64101	REFR_T1	0	0	0	0	0	0	0.02	-0.03	0	0	0	0	0	0
3/9/2025 8:38	64101	REFR_T1	0	0	0	0	0	0	0.04	-0.06	0	0	0	0	0	0
3/9/2025 8:39	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 8:39	64101	REFR_T1	0	0	0	0	0	0	0.06	-0.09	0	0	0	0	0	0
3/9/2025 8:39	44201	POIN_T1	99	157	58	0.25	0.32	0.07	-4.33	-4.43	2	2	0	2400	2400	0
3/9/2025 8:39	57002	WHHI_T2	0	0	0	0	0	0	-2.52	-2.52	1	1	0	1200	1200	0
3/9/2025 8:40	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 8:40	64101	REFR_T1	0	0	0	0	0	0	0.04	-0.06	0	0	0	0	0	0
3/9/2025 8:40	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 8:43	40501	CRES_T2	5	10	5	0.18	0.26	0.08	0	0	0	0	0	0	0	0
3/9/2025 8:44	45502	DERR_T2	1	1	0	1.2	0.4	-0.8	0	0	0	0	0	0	0	0
3/9/2025 8:44	45501	DERR_T2	0	1	1	0	0	-0.75	-0.73	2	2	0	0	1800	1800	0
3/9/2025 8:46	40501	CRES_T2	10	8	-2	0.22	0.29	0.07	0	0	0	0	0	0	0	0
3/9/2025 8:47	53501	EVIL_T2	2	2	0	0.55	0.25	-0.3	0	0	0	0	0	0	0	0
3/9/2025 8:53	64101	REFR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 8:54	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 8:56	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 8:58	61306	EARL_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/9/2025 8:58	61304	EARL_T1	0	25	25	0	0.13	0.13	-0.38	-0.41	0	0	0	0	0	0
3/9/2025 9:00	45501	DERR_T2	0	0	0	0	0	0	-0.73	-0.82	2	2	0	1800	1800	0
3/9/2025 9:00	45502	DERR_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/9/2025 9:01	46203	DANV_T2	4	19	15	0.1	0.25	0.15	-4.32	-4.3	0	0	0	0	0	0
3/9/2025 9:01	46204	DANV_T2	4	14	10	0.48	0	-0.48	0	0	0	0	0	0	0	0
3/9/2025 9:01	46206	DANV_T2	1	3	2	1	0	-1	2.98	2.86	4	4	0	4200	4200	0
3/9/2025 9:05	58201	NEWV_T1	3	2	-1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
3/9/2025 9:06	66504	SMAN_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
3/9/2025 9:19	64403	LAND_T1	0	9	9	0	0.14	0.14	-1.98	-1.95	1	1	0	900	900	0
3/9/2025 9:19	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 9:19	40602	PIGR_T1	0	0	0	0	0	0	-1.96	-1.95	1	1	0	600	600	0
3/9/2025 9:21	44201	POIN_T1	114	161	47	0.26	0.29	0.03	-2.19	-2.16	1	1	0	1200	1200	0
3/9/2025 9:21	58401	MORO_T1	0	0	0	0	0	0	-1.08	-1.05	1	1	0	600	600	0
3/9/2025 9:22	44201	POIN_T1	114	161	47	0.26	0.29	0.03	-2.19	-2.16	1	1	0	1200	1200	0
3/9/2025 9:23	53501	EVIL_T2	0	2	2	0	0.65	0.65	-0.57	-0.56	0	0	0	0	0	0
3/9/2025 9:24	67901	WNHO_T2	8	16	8	0.13	0.26	0.13	-0.12	-0.16	0	0	0	0	0	0
3/9/2025 9:25	44201	POIN_T1	114	161	47	0.26	0.29	0.03	-2.19	-2.16	1	1	0	1200	1200	0
3/9/2025 9:25	67903	WNHO_T1	0	0	0	0	0	0	0.05	0.06	1	1	0	1200	1200	0
3/9/2025 9:26	67605	WARW_T1	3	8	5	0.17	0.28	0.11	0	0	0	0	0	0	0	0
3/9/2025 9:26	67903	WNHO_T1	0	0	0	0	0	0	0.05	0.06	1	1	0	1200	1200	0
3/9/2025 9:26	67603	WARW_T1	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
3/9/2025 9:27	67901	WNHO_T2	8	16	8	0.13	0.26	0.13	-0.12	-0.16	0	0	0	0	0	0
3/9/2025 9:28	46206	DANV_T2	1	3	2	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/9/2025 9:28	46204	DANV_T2	14	4	-10	0.34	0	-0.34	0	0	0	0	0	0	0	0
3/9/2025 9:28	21203	ECAR_T1	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
3/9/2025 9:28	46203	DANV_T2	8	19	11	0.14	0.25	0.11	-2.15	-2.19	0	0	0	0	0	0
3/9/2025 9:29	63501	HEID_TBK1-2	34	52	18	0.25	0.33	0.08	-0.38	-0.43	1	1	0	900	900	0
3/9/2025 9:30	67901	WNHO_T2	16	12	-4	0.23	0.28	0.05	0	0	0	0	0	0	0	0
3/9/2025 9:32	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 9:32	52402	GRPA_T2	3	2	-1	0.27	0.1	-0.17	0	0	0	0	0	0	0	0
3/9/2025 9:32	45501	DERR_T2	0	0	0	0	0	0	-0.82	-0.78	2	2	0	1800	1800	0
3/9/2025 9:32	45502	DERR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 9:32	52403	GRPA_T2	9	31	22	0.26	0.31	0.05	-0.61	-0.63	0	0	0	0	0	0
3/9/2025 9:36	40602	PIGR_T1	0	0	0	0	0	0	-1.95	-1.98	1	1	0	600	600	0
3/9/2025 9:36	40603	PIGR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 9:43	46206	DANV_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/9/2025 9:43	46203	DANV_T2	19	7	-12	0.25	0.16	-0.09	-2.19	-2.2	0	0	0	0	0	0
3/9/2025 9:43	46204	DANV_T2	0	5	5	0	0.43	0.43	0	0	0	0	0	0	0	0
3/9/2025 9:46	47203	FAXO_T2	0	0	0	0	0	0	-2.41	-2.41	1	1	0	1200	1200	0
3/9/2025 9:47	64202	KINZ_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/9/2025 9:47	64203	KINZ_T1	0	0	0	0	0	0	-0.51	-0.45	1	1	0	600	600

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/9/2025 10:00	61304	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 10:00	52101	MEIS_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
3/9/2025 10:07	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 10:08	63202	MGTN_T2	0	0	0	0	0	0	0.5	0.45	0	0	0	0	0	0
3/9/2025 10:09	58102	NEKI_T1	1	1	0	0.9	0.9	0	-1.31	-1.33	1	1	0	1200	1200	0
3/9/2025 10:09	58101	NEKI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/9/2025 10:11	45501	DERR_T2	0	28	28	0	0.23	0.23	-0.81	-0.51	2	2	0	1800	1800	0
3/9/2025 10:11	45502	DERR_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/9/2025 10:12	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 10:13	42601	TUSC_T1	18	19	1	0.54	0.6	0.06	-0.53	-0.51	1	1	0	1200	1200	0
3/9/2025 10:13	45501	DERR_T2	0	28	28	0	0.23	0.23	-0.81	-0.51	2	2	0	1800	1800	0
3/9/2025 10:13	45502	DERR_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/9/2025 10:14	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 10:14	46204	DANV_T2	4	0	-4	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/9/2025 10:14	45501	DERR_T2	0	28	28	0	0.23	0.23	-2.42	-1.52	6	6	0	5400	5400	0
3/9/2025 10:14	40101	HUNT_T2	1	0	-1	0.2	0	-0.2	-1.41	-1.41	0	0	0	0	0	0
3/9/2025 10:14	45502	DERR_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/9/2025 10:14	46203	DANV_T2	6	88	82	0.13	0.54	0.41	-6.51	-6.83	0	0	0	0	0	0
3/9/2025 10:15	46203	DANV_T2	22	103	81	0.26	0.59	0.33	-2.17	-2.28	0	0	0	0	0	0
3/9/2025 10:16	45501	DERR_T2	28	56	28	0.23	0.29	0.06	-0.81	-0.51	2	2	0	1800	1800	0
3/9/2025 10:17	64204	KINZ_T1	71	75	4	1.47	1.64	0.17	0	0	0	0	0	0	0	0
3/9/2025 10:17	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 10:17	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:18	64204	KINZ_T1	71	75	4	1.47	1.64	0.17	0	0	0	0	0	0	0	0
3/9/2025 10:18	47203	FANO_T2	0	0	0	0	0	0	-2.4	-1.74	1	1	0	1200	1200	0
3/9/2025 10:18	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 10:19	52402	GRPA_T2	1	3	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/9/2025 10:19	64203	KINZ_T1	0	2	2	0	0.2	0.2	-0.48	-0.49	1	1	0	600	600	0
3/9/2025 10:19	52401	GRPA_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/9/2025 10:19	64204	KINZ_T1	71	75	4	1.47	1.64	0.17	0	0	0	0	0	0	0	0
3/9/2025 10:19	52403	GRPA_T2	14	14	0	0.6	0.49	-0.11	-0.68	-0.7	0	0	0	0	0	0
3/9/2025 10:19	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 10:20	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 10:20	52402	GRPA_T2	1	3	2	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/9/2025 10:20	52401	GRPA_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/9/2025 10:20	52403	GRPA_T2	14	14	0	0.6	0.49	-0.11	0	0	0	0	0	0	0	0
3/9/2025 10:21	54201	PENN_T1	46	64	18	0.43	0.38	-0.05	-1.4	-1.42	0	0	0	0	0	0
3/9/2025 10:21	54203	PENN_T1	22	24	2	0.96	1	0.04	-0.09	-0.08	0	0	0	0	0	0
3/9/2025 10:23	23001	SAJO_T1	0	0	0	0	0	0	-1.5	-1.49	0	0	0	0	0	0
3/9/2025 10:24	23001	SAJO_T1	0	0	0	0	0	0	-1.5	-1.49	0	0	0	0	0	0
3/9/2025 10:24	67605	WARW_T1	1	7	6	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
3/9/2025 10:24	54203	PENN_T1	22	24	2	0.96	1	0.04	-0.08	-0.06	0	0	0	0	0	0
3/9/2025 10:24	54201	PENN_T1	46	64	18	0.43	0.38	-0.05	0	0	0	0	0	0	0	0
3/9/2025 10:24	67603	WARW_T1	0	0	0	0	0	0	-0.02	0.02	0	0	0	0	0	0
3/9/2025 10:25	42701	AUGU_T1	1	2	1	1	0.75	-0.25	0	0	0	0	0	0	0	0
3/9/2025 10:25	54201	PENN_T1	46	64	18	0.43	0.38	-0.05	-2.85	-2.81	0	0	0	0	0	0
3/9/2025 10:25	54203	PENN_T1	22	24	2	0.96	1	0.04	0	0	0	0	0	0	0	0
3/9/2025 10:25	67605	WARW_T1	1	7	6	0.3	0.29	-0.01	-1.09	-1.08	0	0	0	0	0	0
3/9/2025 10:27	42701	AUGU_T1	1	2	1	1	0.75	-0.25	0	0	0	0	0	0	0	0
3/9/2025 10:27	67605	WARW_T1	1	7	6	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
3/9/2025 10:29	45501	DERR_T2	28	56	28	0.23	0.29	0.06	-1.01	-1.28	4	4	0	3600	3600	0
3/9/2025 10:30	20601	GRWO_T2	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
3/9/2025 10:30	61302	EARL_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/9/2025 10:30	61303	EARL_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
3/9/2025 10:30	61304	EARL_T1	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/9/2025 10:30	10903	COOP_T2	2	2	0	0.35	0.55	0.2	0	0	0	0	0	0	0	0
3/9/2025 10:30	61306	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 10:31	21203	ECAR_T1	0	0	0	0	0	0	-0.48	-0.48	0	0	0	0	0	0
3/9/2025 10:31	20601	GRWO_T2	0	0	0	0	0	0	-0.23	-0.2	0	0	0	0	0	0
3/9/2025 10:32	61304	EARL_T1	1	2	1	0.1	0.25	0.15	-0.31	-0.25	0	0	0	0	0	0
3/9/2025 10:32	61306	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 10:32	61302	EARL_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/9/2025 10:34	52102	MEIS_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/9/2025 10:34	52101	MEIS_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
3/9/2025 10:40	42701	AUGU_T1	1	1	0	1.3	0.2	-1.1	0	0	2	2	0	1800	1800	0
3/9/2025 10:41	42701	AUGU_T1	1	1	0	1.3	0.2	-1.1	0	0	2	2	0	1800	1800	0
3/9/2025 10:42	16102	BING_T2	1	8	7	0.2	0.19	-0.01	-0.02	-0.03	0	0	0	0	0	0
3/9/2025 10:42	16103	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 10:42	45501	DERR_T2	11	56	45	0.16	0.29	0.13	-0.64	-0.62	2	2	0	1800	1800	0
3/9/2025 10:42	16101	BING_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 10:43	61302	EARL_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/9/2025 10:43	61304	EARL_T1	1	2	1	0.1	0.25	0.15	-0.5	-0.54	0	0	0	0	0	0
3/9/2025 10:43	61306	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 10:44	61306	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 10:44	61304	EARL_T1	1	2	1	0.1	0.25	0.15	-0.25	-0.27	0	0	0	0	0	0
3/9/2025 10:44	16103	BING_T2	0	1	1	0	0.2	0.2	-1.1	-1.09	2	2	0	1500	1500	0
3/9/2025 10:44	16101	BING_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 10:44	16102	BING_T2	1	8	7	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
3/9/2025 10:44	61302	EARL_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/9/2025 10:44	45501	DERR_T2	11	56	45	0.16	0.29	0.13	-0.64	-0.62	2	2	0	1800	1800	0
3/9/2025 10:46	16101	BING_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/9/2025 10:46	54505	ENOL_T2	1	1	0	0.6	0.5	-0.1	-0.65	-0.65	1	1	0	600	600	0
3/9/2025 10:46	16103	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 10:46	46803	HEPB_T2	4	1	-3	0.23	0.3	0.07	0.48	0.44	0	0	0	0	0	0
3/9/2025 10:46	16102	BING_T2	8	2	-6	0.19	0.15	-0.04	0	0	0	0	0	0	0	0
3/9/2025 10:46	46801	HEPB_T2	4	2	-2	0.58	0.85	0.27	0	0	0	0	0	0	0	0
3/9/2025 10:47	52404	GRPA_T2	0	1	1	0	0	0	-0.33	-0.29	0	0	0	0	0	0
3/9/2025 10:47	52403	GRPA_T2	3	0	-3	0.63	0	-0.63	0	0	0	0	0	0	0	0
3/9/2025 10:48	52404	GRPA_T2	0	1	1	0	0	0	-0.33	-0.29	0	0	0	0	0	0
3/9/2025 10:48	52502	PROG_T2	1	0	-1	0.2	0	-0.2	-0.53	-0.55	1	1	0	900	900	0
3/9/2025 10:48	52403	GRPA_T2	3	0	-3	0.63	0	-0.63	0	0	0	0	0	0	0	0
3/9/2025 10:49	17802	GILB_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
3/9/2025 10:50	13303	ORVI_T1	4	5	1	0.4	0.38	-0.02	0.55	0.55	0	0	0	0	0	0
3/9/2025 10:52	65901	SAKR_T2	1	1	0	8.4	8.6	0.2	-1.22	-1.24	1	1	0	900	900	0
3/9/2025 10:52	13302	ORVI_T2	6	5	-1	0.3	0.42	0.12	1.37	1.35	0	0	0	0	0	0
3/9/2025 10:52	64101	REFR_T1	0	1	1	0	0.2	0.2	-0.08	-0.09	0	0	0	0	0	0
3/9/2025 10:54	65202	PRIN_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
3/9/2025 10:54	67402	WAKE_T2	0	0	0	0	0	0	-0.44	-0.42	1	1	0	600	600	0
3/9/2025 10:54	65205	PRIN_T1	1	2	1	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
3/9/2025 10:55	67402	WAKE_T2	0	0	0	0	0	0	-0.44	-0.42	1	1	0	600	600	0
3/9/2025 10:56	41902	REED_T1	1	2	1	0.4	0	-0.4	0.87	0.91	0	0	0	0	0	0
3/9/2025 10:56	67605	WARW_T1	7	10	3	0.29	0.31	0.02	-0.92	-0.91	0	0	0	0	0	0
3/9/2025 10:56	60801	BUCK_T1	1	1	0	0.2	0.4	0.2	-2.64	-2.52	3	3	0	1800	1800	0
3/9/2025 10:56	64101	REFR_T1	0	1	1	0	0.2	0.2	-0.08	-0.09	0	0	0	0	0	0
3/9/2025 10:57	52502	PROG_T2	1	0	-1	0.2	0	-0.2	-0.55	-0.55	1	1	0	900	900	0
3/9/2025 10:57	60801	BUCK_T1	1	1	0	0.2	0.4	0.2	-0.88	-0.84	1	1	0	600	600	0
3/9/2025 11:00	63501	HEID_TBK1-2	43	32	-11	0.33	0.34	0.01	-0.33	-0.36	1	1	0	900	900	0
3/9/2025 11:00	60801	BUCK_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/9/2025 11:01	63501	HEID_TBK1-2	43	32	-11	0.33	0.34	0.01	-0.33	-0.36	1	1	0	900	900	0
3/9/2025 11:01	61306	EARL_T1	1	0	-1	0.1	0	-0.1	0.03	0.03	0	0	0	0	0	0
3/9/2025 11:01	61304	EARL_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/9/2025 11:01	61302	EARL_T1	2	1	-1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/9/2025 11:02	63501	HEID_TBK1-2	43	32	-11	0.33	0.34	0.01	-0.33	-0.36	1	1	0	900	900	0
3/9/2025 11:04	63501	HEID_TBK1-2	43	32	-11	0.33	0.34	0.01	-0.67	-0.73	2	2	0	1800	1800	0
3/9/2025 11:05	63501	HEID_TBK1-2	43	32	-11	0.33	0.34	0.01	-0.33	-0.36	1	1	0	900	900	0
3/9/2025 11:06	44201	POIN_T1	139	104	-35	0.29	0.24	-0.05	-4.32	-4.32	2	2	0	2400	2400	0
3/9/2025 11:08	14403	SSLA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 11:10	14403	SSLA_T1	0	0	0	0	0	0	0.58	0.61	0	0	0	0	0	0
3/9/2025 11:10	44201	POIN_T1	139	104	-35	0.29	0.24	-0.05	-2.16	-2.16	1	1	0	1200	1200	0
3/9/2025 11:20	12603	MACA_T1	0	10	10	0	0.15	0.15	0	0	0	0	0	0	0	0
3/9/2025 11:20	12602	MACA_T1	0	151	151	0	0.23	0.23	0	0	0	0	0	0	0	0
3/9/2025 11:20	12606	MACA_T1	0	1	1	0	0.2	0.2	-0.27	-0.24	1	1	0	900	900	0
3/9/2025 11:20	12601	MACA_T1	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
3/9/2025 11:20	12604	MACA_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/9/2025 11:21	45501	DERR_T2	12	26	14	0.28	0.3	0.02	-0.61	-0.61	2	2	0	1800	1800	0
3/9/2025 11:30	12606	MACA_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
3/9/2025 11:30	12601	MACA_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
3/9/2025 11:30	12602	MACA_T1	150	63	-87	0.22	0.21	-0.01	-0.75	-0.75	0	0	0	0	0	0
3/9/2025 11:30	12603	MACA_T1	8	8	0	0.16	0.19	0.03	0	0	0	0	0	0	0	0
3/9/2025 11:30	12605	MACA_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/9/2025 11:30	44903	SCOT_T1	0	0	0	0	0	0	-0.87	-0.85	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/9/2025 11:30	23401	HONE_T2	0	1	1	0	0.6	0.6	-0.69	-0.68	0	0	0	0	0	0
3/9/2025 11:30	44905	SCOT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 11:30	12604	MACA_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
3/9/2025 11:32	53903	HALI_T2	2	6	4	1	0.6	-0.4	0	0	0	0	0	0	0	0
3/9/2025 11:32	53902	HALI_T2	2	3	1	3.15	2.33	-0.82	0	0	0	0	0	0	0	0
3/9/2025 11:32	53901	HALI_T2	1	8	7	0.9	0.35	-0.55	-2.86	-2.86	0	0	0	0	0	0
3/9/2025 11:34	45501	DERR_T2	19	34	15	0.25	0.33	0.08	-0.61	-0.61	2	2	0	1800	1800	0
3/9/2025 11:35	53501	EVIL_T2	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
3/9/2025 11:35	63802	HEMP_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
3/9/2025 11:35	63803	HEMP_T1	2	4	2	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
3/9/2025 11:35	61306	EARL_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/9/2025 11:35	63801	HEMP_T1	6	10	4	0.33	0.29	-0.04	-0.35	-0.25	0	0	0	0	0	0
3/9/2025 11:35	45501	DERR_T2	19	34	15	0.25	0.33	0.08	-0.61	-0.61	2	2	0	1800	1800	0
3/9/2025 11:35	61304	EARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/9/2025 11:35	63804	HEMP_T1	1	2	1	5.5	2.8	-2.7	0	0	0	0	0	0	0	0
3/9/2025 11:36	63601	LETO_T1	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
3/9/2025 11:36	63602	LETO_T1	1	1	0	0.5	0.8	0.3	-0.51	-0.53	0	0	0	0	0	0
3/9/2025 11:37	65802	RTWN_T2	1	1	0	1.3	0.5	-0.8	-0.23	-0.23	0	0	0	0	0	0
3/9/2025 11:37	65803	RTWN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/9/2025 11:37	65701	RVIL_T1	0	0	0	0	0	0	-1.15	-1.12	0	0	0	0	0	0
3/9/2025 11:39	57002	WHHI_T2	0	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0
3/9/2025 11:39	23401	HONE_T2	0	1	1	0	0.6	0.6	-0.68	-0.75	0	0	0	0	0	0
3/9/2025 11:39	52403	GRPA_T2	0	8	8	0	0.55	0.55	0	0	0	0	0	0	0	0
3/9/2025 11:39	57006	WHHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 11:39	52404	GRPA_T2	1	1	0	1.8	0	-1.8	0	0	0	0	0	0	0	0
3/9/2025 11:39	67203	TEHI_T1	0	0	0	0	0	0	0.98	0.99	0	0	0	0	0	0
3/9/2025 11:39	52401	GRPA_T2	0	0	0	0	0	0	-1.09	-0.99	0	0	0	0	0	0
3/9/2025 11:40	47402	PENS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/9/2025 11:40	65803	RTWN_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/9/2025 11:40	65802	RTWN_T2	1	1	0	1.3	0.5	-0.8	-0.46	-0.46	0	0	0	0	0	0
3/9/2025 11:40	65804	RTWN_T1	1	0	-1	0.1	0	-0.1	-0.15	-0.12	1	1	0	600	600	0
3/9/2025 11:40	47403	PENS_T1	2	5	3	0.25	0.3	0.05	0	0	0	0	0	0	0	0
3/9/2025 11:40	47401	PENS_T1	4	6	2	0.93	0.93	0	0	0	0	0	0	0	0	0
3/9/2025 11:40	64101	REFR_T1	1	2	1	0.2	0.15	-0.05	-0.09	-0.08	0	0	0	0	0	0
3/9/2025 11:40	40201	BEGA_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/9/2025 11:41	46004	BERW_T2	1	2	1	0.1	0.6	0.5	-0.77	-0.79	0	0	0	0	0	0
3/9/2025 11:41	54601	SUMM_T2	3	2	-1	0.73	0.9	0.17	-1.85	-1.88	2	2	0	2100	2100	0
3/9/2025 11:41	46002	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 11:42	16102	BING_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/9/2025 11:42	16101	BING_T2	0	1	1	0	0.2	0.2	0.42	0.4	0	0	0	0	0	0
3/9/2025 11:42	14601	SWHI_T1	0	0	0	0	0	0	-0.78	-0.82	0	0	0	0	0	0
3/9/2025 11:42	14603	SWHI_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/9/2025 11:42	16103	BING_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/9/2025 11:42	64101	REFR_T1	1	2	1	0.2	0.15	-0.05	-0.09	-0.08	0	0	0	0	0	0
3/9/2025 11:44	15701	TANN_T1	1	2	1	4.2	1.95	-2.25	0	0	0	0	0	0	0	0
3/9/2025 11:44	15704	TANN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 11:44	64101	REFR_T1	1	2	1	0.2	0.15	-0.05	-0.09	-0.08	0	0	0	0	0	0
3/9/2025 11:45	41801	GOCI_T2	25	33	8	0.31	0.32	0.01	0	0	0	0	0	0	0	0
3/9/2025 11:45	53501	EVIL_T2	1	2	1	0.6	0.75	0.15	0	0	0	0	0	0	0	0
3/9/2025 11:45	44801	EDAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/9/2025 11:46	21206	ECAR_T2	1	1	0	7.5	7.3	-0.2	0	0	0	0	0	0	0	0
3/9/2025 11:46	10401	LIGA_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/9/2025 11:46	21204	ECAR_T2	5	5	0	1.03	1.08	0.05	-0.56	-0.56	0	0	0	0	0	0
3/9/2025 11:46	54505	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/9/2025 11:46	54504	ENOL_T2	0	0	0	0	0	0	-1.03	-1.05	1	1	0	600	600	0
3/9/2025 11:46	41801	GOCI_T2	25	33	8	0.31	0.32	0.01	0	0	0	0	0	0	0	0
3/9/2025 11:47	54502	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 11:47	41801	GOCI_T2	25	33	8	0.31	0.32	0.01	0	0	0	0	0	0	0	0
3/9/2025 11:47	54505	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/9/2025 11:47	61304	EARL_T1	1	2	1	0.2	0.1	-0.1	-0.27	-0.32	0	0	0	0	0	0
3/9/2025 11:51	52502	PROG_T2	2	4	2	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/9/2025 11:51	52001	LING_T1	0	1	1	0	0.1	0.1	-1.03	-1.06	0	0	0	0	0	0
3/9/2025 11:51	52003	LING_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
3/9/2025 11:52	10401	LIGA_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/9/2025 11:52	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.19	1	1	0	600	600	0
3/9/2025 11:54	14603	SWHI_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/9/2025 11:55	25801	SUTR_T2	2	2	0	9.5	9.9	0.4	-0.71	-0.67	0	0	0	0	0	0
3/9/2025 11:56	45301	WBER_T2	0	0	0	0	0	0	-0.89	-0.87	1	1	0	1200	1200	0
3/9/2025 11:56	52502	PROG_T2	2	4	2	0.4	0.3	-0.1	-0.57	-0.59	1	1	0	900	900	0
3/9/2025 11:57	40504	CRES_T1	1	1	0	0.5	0.8	0.3	-0.61	-0.6	0	0	0	0	0	0
3/9/2025 11:58	14604	SWHI_T1	0	0	0	0	0	0	0.01	-0.02	1	1	0	900	900	0
3/9/2025 11:58	10801	CHHI_T1	8	8	0	0.28	0.66	0.38	-2.16	-2.17	3	3	0	2100	2100	0
3/9/2025 11:58	14603	SWHI_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/9/2025 11:59	54505	ENOL_T2	1	1	0	0.6	0.6	0	-0.65	-0.65	1	1	0	600	600	0
3/9/2025 11:59	61304	EARL_T1	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/9/2025 11:59	40201	BEGA_T2	1	2	1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/9/2025 12:00	40201	BEGA_T2	2	3	1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/9/2025 12:00	46201	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 12:00	46203	DANV_T2	165	202	37	0.72	0.9	0.18	-2.33	-2.36	0	0	0	0	0	0
3/9/2025 12:01	44502	HAMI_T2	1	1	0	2.5	2.6	0.1	0	0	0	0	0	0	0	0
3/9/2025 12:01	40501	CRES_T2	11	11	0	0.41	0.4	-0.01	0	0	0	0	0	0	0	0
3/9/2025 12:01	45502	DERR_T2	0	0	0	0	0	0	-0.62	-0.6	0	0	0	0	0	0
3/9/2025 12:01	44505	HAMI_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
3/9/2025 12:01	40502	CRES_T2	13	17	4	0.24	0.29	0.05	0	0	0	0	0	0	0	0
3/9/2025 12:01	45501	DERR_T2	34	138	104	0.33	0.37	0.04	0	0	0	0	0	0	0	0
3/9/2025 12:01	46201	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 12:01	46203	DANV_T2	165	202	37	0.72	0.9	0.18	-2.33	-2.36	0	0	0	0	0	0
3/9/2025 12:01	54505	ENOL_T2	1	1	0	0.6	0.6	0	-0.65	-0.65	1	1	0	600	600	0
3/9/2025 12:02	10801	CHHI_T1	8	7	-1	0.59	0.59	0	-4.32	-4.35	6	6	0	4200	4200	0
3/9/2025 12:02	17802	GILB_T1	1	2	1	0.1	1	0.9	0	-0.04	0	0	0	0	0	0
3/9/2025 12:04	17802	GILB_T1	1	2	1	0.1	1	0.9	0	-0.04	0	0	0	0	0	0
3/9/2025 12:04	44502	HAMI_T2	1	1	0	2.5	2.6	0.1	0	0	0	0	0	0	0	0
3/9/2025 12:04	44505	HAMI_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
3/9/2025 12:05	60502	NMAN_T2	1	3	2	0.5	0.3	-0.2	-0.46	-0.42	0	0	0	0	0	0
3/9/2025 12:05	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 12:05	60503	MOJO_T2	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
3/9/2025 12:05	44502	HAMI_T2	1	1	0	2.5	2.6	0.1	0	0	0	0	0	0	0	0
3/9/2025 12:05	60501	NMAN_T2	3	10	7	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
3/9/2025 12:06	60502	NMAN_T2	1	3	2	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/9/2025 12:06	41002	LAUR_T2	4	4	0	0.53	0.6	0.07	0	0	0	0	0	0	0	0
3/9/2025 12:06	60501	NMAN_T2	3	10	7	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
3/9/2025 12:06	41001	LAUR_T2	12	12	0	0.39	0.34	-0.05	0	0	0	0	0	0	0	0
3/9/2025 12:07	60502	NMAN_T2	1	3	2	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/9/2025 12:07	60501	NMAN_T2	3	10	7	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
3/9/2025 12:07	54203	PENN_T1	26	24	-2	0.92	1.03	0.11	0	0	0	0	0	0	0	0
3/9/2025 12:07	66502	SMAN_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/9/2025 12:07	66505	SMAN_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
3/9/2025 12:07	54201	PENN_T1	75	61	-14	0.3	0.36	0.06	-2.59	-2.58	0	0	0	0	0	0
3/9/2025 12:07	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/9/2025 12:07	66504	SMAN_T2	4	6	2	0.53	0.6	0.07	0	0	0	0	0	0	0	0
3/9/2025 12:08	60502	NMAN_T2	1	3	2	0.5	0.3	-0.2	-0.42	-0.49	0	0	0	0	0	0
3/9/2025 12:08	66504	SMAN_T2	4	6	2	0.53	0.6	0.07	0	0	0	0	0	0	0	0
3/9/2025 12:08	66505	SMAN_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
3/9/2025 12:08	66502	SMAN_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/9/2025 12:08	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/9/2025 12:08	60501	NMAN_T2	3	10	7	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
3/9/2025 12:09	60502	NMAN_T2	1	3	2	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/9/2025 12:09	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/9/2025 12:09	66502	SMAN_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/9/2025 12:09	66505	SMAN_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
3/9/2025 12:09	66504	SMAN_T2	4	6	2	0.53	0.6	0.07	-0.62	-0.64	0	0	0	0	0	0
3/9/2025 12:09	60501	NMAN_T2	3	10	7	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
3/9/2025 12:10	66502	SMAN_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/9/2025 12:10	66505	SMAN_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
3/9/2025 12:10	15201	SFAR_T1	0	0	0	0	0	0	-0.24	-0.25	1	1	0	1200	1200	0
3/9/2025 12:10	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/9/2025 12:10	67605	WARW_T1	11	19	8	0.27	0.54	0.27	-0.88	-0.92	0	0	0	0	0	0
3/9/2025 12:10	66504	SMAN_T2	4	6	2	0.53	0.6	0.07	-1.23	-1.28	0	0	0	0	0	0
3/9/2025 12:11	41602	CLEV_T1	1	2	1	0.5	0.65	0.15	0	0	0	0	0	0	0	0
3/9/2025 12:11	42701	AUGU_T1	1	3	2	0.2	0.33	0.13	0	0	2	2	0	1800	1800	0
3/9/2025 12:11	41601	CLEV_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/9/2025 12:11	66502	SMAN_T2	1	2	1	0.1	0.25	0.15	-0.25	-0.15	0	0	0	0	0	0
3/9/2025 12:11	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0.27	0.26	0	0	0	0	0	0
3/9/2025 12:11	66504	SMAN_T2	4	6	2	0.53	0.6	0.07	0	0	0	0	0	0	0	0
3/9/2025 12:11	66505	SMAN_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
3/9/2025 12:12	66505	SMAN_T2	0	4	4	0	0.28	0.28	0	0	0	0	0	0	0	0
3/9/2025 12:12	66504	SMAN_T2	4	6	2	0.53	0.6	0.07	-0.62	-0.64	0	0	0	0	0	0
3/9/2025 12:12	41602	CLEV_T1	1	2	1	0.5	0.65	0.15	0	0	1	1	0	600	600	0
3/9/2025 12:12	42701	AUGU_T1	1	3	2	0.2	0.33	0.13	0	0	2	2	0	1800	1800	0
3/9/2025 12:12	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/9/2025 12:12	66502	SMAN_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/9/2025 12:12	41601	CLEV_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/9/2025 12:13	41602	CLEV_T1	1	2	1	0.5	0.65	0.15	0	0	0	0	0	0	0	0
3/9/2025 12:13	41601	CLEV_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/9/2025 12:14	44801	EDAN_T2	0	1	1	0	0.1	0.1	-0.45	-0.44	0	0	0	0	0	0
3/9/2025 12:15	41602	CLEV_T1	1	2	1	0.6	0.75	0.15	0	0	0	0	0	0	0	0
3/9/2025 12:15	41601	CLEV_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/9/2025 12:16	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 12:16	46801	HEPB_T2	2	2	0	0.9	0.95	0.05	0.57	0.53	0	0	0	0	0	0
3/9/2025 12:17	46802	HEPB_T2	1	1	0	0.4	0.4	0	-0.34	-0.31	0	0	0	0	0	0
3/9/2025 12:17	44801	EDAN_T2	1	2	1	0.1	0.2	0.1	-0.9	-0.88	0	0	0	0	0	0
3/9/2025 12:17	41602	CLEV_T1	1	2	1	0.6	0.75	0.15	0	0	1	1	0	600	600	0
3/9/2025 12:17	46801	HEPB_T2	2	2	0	0.9	0.95	0.05	0.57	0.53	0	0	0	0	0	0
3/9/2025 12:17	41601	CLEV_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/9/2025 12:17	46803	HEPB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 12:20	51003	NHAR_T1	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
3/9/2025 12:20	13302	ORVI_T2	1	3	2	0.7	1.13	0.43	1.33	1.4	0	0	0	0	0	0
3/9/2025 12:20	51002	NHAR_T1	18	12	-6	0.23	0.26	0.03	0	0	0	0	0	0	0	0
3/9/2025 12:20	51004	NHAR_T1	5	4	-1	2.32	2.73	0.41	0	0	0	0	0	0	0	0
3/9/2025 12:22	17002	RIRO_T2	1	2	1	0.3	1.15	0.85	0	0	0	0	0	0	0	0
3/9/2025 12:22	13902	SEID_T1	1	1	0	1.4	1.4	0	0	0	0	0	0	0	0	0
3/9/2025 12:22	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 12:22	13302	ORVI_T2	1	3	2	0.7	1.13	0.43	1.4	1.35	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/9/2025 12:22	52502	PROG_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/9/2025 12:22	13901	SEID_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/9/2025 12:22	13904	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 12:22	13905	SEID_T1	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
3/9/2025 12:24	15203	SFAR_T2	4	4	0	0.55	0.65	0.1	-1.31	-1.32	0	0	0	0	0	0
3/9/2025 12:24	13601	RICH_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/9/2025 12:24	60301	TWVA_T2	0	0	0	0	0	0	-3.22	-3.21	2	2	0	1800	1800	0
3/9/2025 12:24	13606	RICH_T2	0	2	2	0	0.75	0.75	0.36	0.4	0	0	0	0	0	0
3/9/2025 12:25	65203	PRIN_T1	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/9/2025 12:25	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 12:25	65202	PRIN_T1	1	16	15	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
3/9/2025 12:25	65205	PRIN_T1	2	8	6	1.8	0.46	-1.34	0	0	0	0	0	0	0	0
3/9/2025 12:26	52501	PROG_T1	0	0	0	0	0	0	0.44	0.45	1	1	0	300	300	0
3/9/2025 12:27	51101	CARL_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
3/9/2025 12:27	40504	CRES_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/9/2025 12:27	64101	REFR_T1	1	6	5	0.2	0.65	0.45	-0.12	-0.08	0	0	0	0	0	0
3/9/2025 12:27	40505	CRES_T1	0	3	3	0	0.17	0.17	0.28	0.27	0	0	0	0	0	0
3/9/2025 12:27	51102	CARL_T1	3	3	0	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
3/9/2025 12:27	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 12:27	42701	AUGU_T1	1	4	3	0.6	0.33	-0.27	0	0	2	2	0	1800	1800	0
3/9/2025 12:28	40505	CRES_T1	0	3	3	0	0.17	0.17	0.56	0.54	0	0	0	0	0	0
3/9/2025 12:28	40504	CRES_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/9/2025 12:28	10602	BLGL_T2	3	3	0	0.53	0.9	0.37	0.15	0.15	0	0	0	0	0	0
3/9/2025 12:28	40502	CRES_T2	15	19	4	0.25	0.29	0.04	0	0	0	0	0	0	0	0
3/9/2025 12:28	40501	CRES_T2	9	13	4	0.38	0.4	0.02	0	0	0	0	0	0	0	0
3/9/2025 12:31	40501	CRES_T2	10	12	2	0.42	0.38	-0.04	0	0	0	0	0	0	0	0
3/9/2025 12:31	40502	CRES_T2	16	22	6	0.28	0.28	0	0.08	0.08	0	0	0	0	0	0
3/9/2025 12:31	63501	HEID_TBK1-2	162	74	-88	0.41	0.4	-0.01	0	0	0	0	0	0	0	0
3/9/2025 12:32	40504	CRES_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/9/2025 12:32	40505	CRES_T1	1	3	2	0.1	0.27	0.17	0.28	0.27	0	0	0	0	0	0
3/9/2025 12:32	67804	WLAN_T1	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/9/2025 12:32	64204	KINZ_T1	73	81	8	1.45	1.78	0.33	0	0	0	0	0	0	0	0
3/9/2025 12:32	64202	KINZ_T1	3	5	2	0.17	0.34	0.17	0	0	0	0	0	0	0	0
3/9/2025 12:32	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 12:32	67805	WLAN_T1	0	0	0	0	0	0	-1.6	-1.51	0	0	0	0	0	0
3/9/2025 12:32	64201	KINZ_T1	1	3	2	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
3/9/2025 12:33	64202	KINZ_T1	3	5	2	0.17	0.34	0.17	0.68	0.68	0	0	0	0	0	0
3/9/2025 12:33	64204	KINZ_T1	73	81	8	1.45	1.78	0.33	0	0	0	0	0	0	0	0
3/9/2025 12:33	53902	HALI_T2	3	3	0	2.07	2.07	0	-0.93	-0.9	0	0	0	0	0	0
3/9/2025 12:33	64201	KINZ_T1	1	3	2	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
3/9/2025 12:33	53903	HALI_T2	2	6	4	0.7	0.62	-0.08	0	0	0	0	0	0	0	0
3/9/2025 12:33	53901	HALI_T2	2	8	6	0.65	0.85	0.2	-0.96	-0.99	0	0	0	0	0	0
3/9/2025 12:34	20403	ASHF_T2	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/9/2025 12:34	20401	ASHF_T2	1	4	3	0.8	0.35	-0.45	0.26	0.28	0	0	0	0	0	0
3/9/2025 12:34	53901	HALI_T2	2	8	6	0.65	0.85	0.2	0	0	0	0	0	0	0	0
3/9/2025 12:34	53902	HALI_T2	3	3	0	2.07	2.07	0	0	0	0	0	0	0	0	0
3/9/2025 12:34	63501	HEID_TBK1-2	162	74	-88	0.41	0.4	-0.01	-0.29	-0.34	1	1	0	900	900	0
3/9/2025 12:34	53903	HALI_T2	2	6	4	0.7	0.62	-0.08	0	0	0	0	0	0	0	0
3/9/2025 12:35	20403	ASHF_T2	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/9/2025 12:35	20401	ASHF_T2	1	4	3	0.8	0.35	-0.45	0.26	0.28	0	0	0	0	0	0
3/9/2025 12:35	48303	ORWI_T2	2	3	1	0.65	0.43	-0.22	0	0	0	0	0	0	0	0
3/9/2025 12:35	48302	ORWI_T2	2	2	0	1.25	1.35	0.1	-0.11	-0.08	0	0	0	0	0	0
3/9/2025 12:37	65302	NBRI_T2	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
3/9/2025 12:37	65303	NBRI_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/9/2025 12:38	67201	TEHI_T1	0	2	2	0	0.4	0.4	0.17	0.18	0	0	0	0	0	0
3/9/2025 12:38	20403	ASHF_T2	1	4	3	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/9/2025 12:38	64101	REFR_T1	5	0	-5	0.48	0.52	0.04	-0.08	-0.11	0	0	0	0	0	0
3/9/2025 12:38	20401	ASHF_T2	1	4	3	0.8	0.35	-0.45	0	0	0	0	0	0	0	0
3/9/2025 12:40	45902	AUBU_T1	2	4	2	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/9/2025 12:40	45901	AUBU_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/9/2025 12:42	16302	ALPA_T2	0	1	1	0	0.2	0.2	0.43	0.43	0	0	0	0	0	0
3/9/2025 12:43	41501	FAIR_T2	0	0	0	0	0	0	-0.5	-0.51	1	1	0	600	600	0
3/9/2025 12:43	47202	FAXO_T2	0	0	0	0	0	0	-2.3	-2.3	0	0	0	0	0	0
3/9/2025 12:43	40505	CRES_T1	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
3/9/2025 12:43	40504	CRES_T1	1	1	0	1	1	0	-0.6	-0.56	0	0	0	0	0	0
3/9/2025 12:44	16302	ALPA_T2	0	1	1	0	0.2	0.2	0.43	0.43	0	0	0	0	0	0
3/9/2025 12:46	16302	ALPA_T2	1	1	0	0.2	0.6	0.4	0.43	0.43	0	0	0	0	0	0
3/9/2025 12:47	54504	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/9/2025 12:47	54505	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
3/9/2025 12:47	54501	ENOL_T2	0	0	0	0	0	0	-2.19	-2.21	2	2	0	1200	1200	0
3/9/2025 12:47	63602	LETO_T1	4	2	-2	0.4	0.45	0.05	-0.6	-0.63	0	0	0	0	0	0
3/9/2025 12:47	63601	LETO_T1	8	7	-1	0.59	0.59	0	0	0	0	0	0	0	0	0
3/9/2025 12:48	64701	LITI_T1	0	0	0	0	0	0	0.09	0.06	0	0	0	0	0	0
3/9/2025 12:48	16302	ALPA_T2	1	1	0	0.2	0.6	0.4	0.43	0.43	0	0	0	0	0	0
3/9/2025 12:48	63602	LETO_T1	4	2	-2	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/9/2025 12:48	63601	LETO_T1	8	7	-1	0.59	0.59	0	0.52	0.51	1	1	0	900	900	0
3/9/2025 12:50	52102	MEIS_T1	2	5	3	0.3	0.44	0.14	0	0	0	0	0	0	0	0
3/9/2025 12:50	52101	MEIS_T1	2	2	0	0.35	0.75	0.4	0	0	0	0	0	0	0	0
3/9/2025 12:52	51004	NHAR_T1	2	4	2	5.45	2.8	-2.65	0	0	0	0	0	0	0	0
3/9/2025 12:52	51002	NHAR_T1	5	17	12	0.42	0.22	-0.2	0	0	0	0	0	0	0	0
3/9/2025 12:52	51003	NHAR_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
3/9/2025 12:52	64101	REFR_T1	3	4	1	0.7	0.48	-0.22	-0.11	-0.06	0	0	0	0	0	0
3/9/2025 12:53	44901	SCOT_T2	76	111	35	0.27	0.33	0.06	-0.48	-0.25	0	0	0	0	0	0
3/9/2025 12:53	64101	REFR_T1	3	4	1	0.7	0.48	-0.22	-0.11	-0.06	0	0	0	0	0	0
3/9/2025 12:53	44902	SCOT_T2	3	9	6	0.17	0.49	0.32	-1.9	-1.96	0	0	0	0	0	0
3/9/2025 12:54	64101	REFR_T1	3	4	1	0.7	0.48	-0.22	-0.44	-0.24	0	0	0	0	0	0
3/9/2025 12:54	44901	SCOT_T2	76	111	35	0.27	0.33	0.06	0	0	0	0	0	0	0	0
3/9/2025 12:54	44905	SCOT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 12:54	44903	SCOT_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
3/9/2025 12:54	44902	SCOT_T2	3	9	6	0.17	0.49	0.32	-0.95	-0.98	0	0	0	0	0	0
3/9/2025 12:55	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 12:55	60801	BUCK_T1	5	0	-5	0.32	0	-0.32	-0.21	-0.24	0	0	0	0	0	0
3/9/2025 12:55	44901	SCOT_T2	76	111	35	0.27	0.33	0.06	-0.48	-0.25	0	0	0	0	0	0
3/9/2025 12:55	65207	PRIN_T4	2	4	2	2.6	1.13	-1.47	0	0	0	0	0	0	0	0
3/9/2025 12:55	44905	SCOT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 12:55	44902	SCOT_T2	3	9	6	0.17	0.49	0.32	0	0	0	0	0	0	0	0
3/9/2025 12:55	64101	REFR_T1	3	4	1	0.7	0.48	-0.22	-0.11	-0.06	0	0	0	0	0	0
3/9/2025 12:55	44904	SCOT_T1	0	0	0	0	0	0	0.4	0.44	0	0	0	0	0	0
3/9/2025 12:56	64101	REFR_T1	3	4	1	0.7	0.48	-0.22	-0.11	-0.06	0	0	0	0	0	0
3/9/2025 12:57	40201	BEGA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/9/2025 12:57	40504	CRES_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/9/2025 12:57	40502	CRES_T2	19	23	4	0.28	0.33	0.05	0.08	0.08	0	0	0	0	0	0
3/9/2025 12:57	40505	CRES_T1	3	2	-1	0.17	0.4	0.23	0	0	0	0	0	0	0	0
3/9/2025 12:57	40501	CRES_T2	12	11	-1	0.38	0.42	0.04	0	0	0	0	0	0	0	0
3/9/2025 12:58	40501	CRES_T2	12	11	-1	0.38	0.42	0.04	0	0	0	0	0	0	0	0
3/9/2025 12:58	64101	REFR_T1	3	4	1	0.7	0.48	-0.22	-0.11	-0.06	0	0	0	0	0	0
3/9/2025 12:58	40502	CRES_T2	19	23	4	0.28	0.33	0.05	0	0	0	0	0	0	0	0
3/9/2025 12:59	40505	CRES_T1	3	2	-1	0.17	0.4	0.23	0.27	0.29	0	0	0	0	0	0
3/9/2025 12:59	44801	EDAN_T2	2	2	0	0.2	0.1	-0.1	-0.42	-0.42	0	0	0	0	0	0
3/9/2025 12:59	54505	ENOL_T2	1	1	0	0.6	0.9	0.3	-0.65	-0.66	1	1	0	600	600	0
3/9/2025 12:59	61302	EARL_T1	2	7	5	0.15	0.5	0.35	0	0	0	0	0	0	0	0
3/9/2025 12:59	61303	EARL_T1	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
3/9/2025 12:59	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 12:59	61304	EARL_T1	3	19	16	0.27	0.23	-0.04	0	0	0	0	0	0	0	0
3/9/2025 12:59	40504	CRES_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/9/2025 12:59	61306	EARL_T1	3	4	1	0.13	0.35	0.22	0.03	0.04	0	0	0	0	0	0
3/9/2025 12:59	54504	ENOL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/9/2025 13:00	61304	EARL_T1	9	30	21	0.31	0.22	-0.09	0	0	0	0	0	0	0	0
3/9/2025 13:00	54504	ENOL_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
3/9/2025 13:00	61302	EARL_T1	3	7	4	0.2	0.64	0.44	0.72	0.68	1	1	0	600	600	0
3/9/2025 13:00	41602	CLEV_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
3/9/2025 13:00	61306	EARL_T1	2	6	4	0.2	0.28	0.08	0	0	0	0	0	0	0	0
3/9/2025 13:00	61303	EARL_T1	1	5	4	0.3	0.34	0.04	0	0	0	0	0	0	0	0
3/9/2025 13:00	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 13:00	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/9/2025 13:00	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 13:00	54506	ENOL_T2	0	0	0	0	0	0	-1.47	-1.46	0	0	0	0	0	0
3/9/2025 13:02	44902	SCOT_T2	3	12	9	0.37	0.48	0.11	0	0	0	0	0	0	0	0
3/9/2025 13:02	44901	SCOT_T2	44	153	109	0.21	0.47	0.26	-0.48	-0.25	0	0	0	0	0	0
3/9/2025 13:03	61302	EARL_T1	3	7	4	0.2	0.64	0.44	0	0	0	0	0	0	0	0
3/9/2025 13:03	61304	EARL_T1	9	30	21	0.31	0.22	-0.09	0	0	0	0	0	0	0	0
3/9/2025 13:03	61306	EARL_T1	2	6	4	0.2	0.28	0.08	0	0	0	0	0	0	0	0
3/9/2025 13:03	61303	EARL_T1	1	5	4	0.3	0.34	0.04	0	0	0	0	0	0	0	0
3/9/2025 13:04	62604	ENGL_T1	0	0	0	0	0	0	-1.2	-1.19	1	1	0	600	600	0
3/9/2025 13:04	22601	KIMB_T1	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
3/9/2025 13:04	58401	MORO_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
3/9/2025 13:04	58402	MORO_T1	0	0	0	0	0	0	-0.37	-0.37	2	2	0	1500	1500	0
3/9/2025 13:04	46903	MNTG_T2	2	3	1	0.8	0.73	-0.07	0	0	0	0	0	0	0	0
3/9/2025 13:04	22602	KIMB_T1	1	1	0	0.1	0.2	0.1	0.16	0.13	0	0	0	0	0	0
3/9/2025 13:04	46901	MNTG_T2	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
3/9/2025 13:05	62604	ENGL_T1	0	0	0	0	0	0	-1.2	-1.19	1	1	0	600	600	0
3/9/2025 13:05	58401	MORO_T1	0	3	3	0	0.4	0.4	-1.16	-1.17	1	1	0	600	600	0
3/9/2025 13:06	52101	MEIS_T1	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
3/9/2025 13:06	52102	MEIS_T1	2	6	4	0.15	0.43	0.28	0	0	0	0	0	0	0	0
3/9/2025 13:07	67001	STHI_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 13:07	67002	STHI_T2	3	5	2	0.23	0.26	0.03	0.58	0.58	0	0	0	0	0	0
3/9/2025 13:08	58401	MORO_T1	0	3	3	0	0.4	0.4	-1.17	-1.19	1	1	0	600	600	0
3/9/2025 13:09	67402	WAKE_T2	2	3	1	0.5	0.27	-0.23	-0.4	-0.44	1	1	0	600	600	0
3/9/2025 13:09	67401	WAKE_T2	3	1	-2	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/9/2025 13:09	67001	STHI_T2	0	2	2	0	0.1	0.1	0.09	0.07	0	0	0	0	0	0
3/9/2025 13:09	44905	SCOT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 13:09	67002	STHI_T2	3	5	2	0.23	0.26	0.03	0	0	0	0	0	0	0	0
3/9/2025 13:10	67605	WARW_T1	12	20	8	0.45	0.57	0.12	-0.92	-0.91	0	0	0	0	0	0
3/9/2025 13:10	67401	WAKE_T2	3	1	-2	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/9/2025 13:10	67402	WAKE_T2	2	3	1	0.5	0.27	-0.23	-0.4	-0.44	1	1	0	600	600	0
3/9/2025 13:11	46903	MNTG_T2	2	3	1	0.8	0.73	-0.07	-0.69	-0.67	1	1	0	600	600	0
3/9/2025 13:11	44905	SCOT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 13:12	67401	WAKE_T2	3	1	-2	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/9/2025 13:12	67402	WAKE_T2	2	3	1	0.5	0.27	-0.23	-0.4	-0.44	1	1	0	600	600	0
3/9/2025 13:13	67605	WARW_T1	12	20	8	0.45	0.57	0.12	-0.92	-0.91	0	0	0	0	0	0
3/9/2025 13:15	61304	EARL_T1	18	42	24	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
3/9/2025 13:15	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 13:15	54504	ENOL_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/9/2025 13:15	61303	EARL_T1	2	5	3	0.35	0.34	-0.01	0	0	0	0	0	0	0	0
3/9/2025 13:15	61302	EARL_T1	7	7	0	0.5	0.59	0.09	0	0	0	0	0	0	0	0
3/9/2025 13:15	54502	ENOL_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
3/9/2025 13:15	61306	EARL_T1	4	6	2	0.35	0.22	-0.13	0	0	0	0	0	0	0	0
3/9/2025 13:15	61301	EARL_T1	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
3/9/2025 13:15	61301	EARL_T1	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
3/9/2025 13:15	61301	EARL_T1	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
3/9/2025 13:15	61301	EARL_T1	0	0	0	0	0	0	0.16	0.18	0	0	0	0	0	0
3/9/2025 13:15	54505	ENOL_T2	1	2	1	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
3/9/2025 13:18	47104	MARL_T1	0	0	0	0	0	0	-2.26	-2.25	0	0	0	0	0	0
3/9/2025 13:18	61306	EARL_T1	4	6	2	0.35	0.22	-0.13	0	0	0	0	0	0	0	0
3/9/2025 13:18	61303	EARL_T1	2	5	3	0.35	0.34	-0.01	0	0	0	0	0	0	0	0
3/9/2025 13:18	61302	EARL_T1	7	7	0	0.5	0.59	0.09	0	0	0	0	0	0	0	0
3/9/2025 13:18	47101	MARL_T1	1	4	3	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/9/2025 13:18	61304	EARL_T1	18	42	24	0.23	0.22	-0.01	-0.23	-0.27	0	0	0	0	0	0
3/9/2025 13:18	42401	GIMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 13:19	44901	SCOT_T2	110	151	41	0.33	0.47	0.14	-0.25	-0.31	0	0	0	0	0	0
3/9/2025 13:19	44902	SCOT_T2	9	11	2	0.49	0.47	-0.02	0	0	0	0	0	0	0	0
3/9/2025 13:19	52403	GRPA_T2	16	22	6	0.63	0.77	0.14	-0.65	-0.69	0	0	0	0	0	0
3/9/2025 13:19	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 13:19	52402	GRPA_T2	5	9	4	0.36	0.47	0.11	0	0	0	0	0	0	0	0
3/9/2025 13:20	52403	GRPA_T2	16	22	6	0.63	0.77	0.14	-0.65	-0.69	0	0	0	0	0	0
3/9/2025 13:20	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 13:20	47104	MARL_T1	0	0	0	0	0	0	-2.26	-2.25	0	0	0	0	0	0
3/9/2025 13:20	52402	GRPA_T2	5	9	4	0.36	0.47	0.11	0	0	0	0	0	0	0	0
3/9/2025 13:20	47101	MARL_T1	1	4	3	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/9/2025 13:22	57205	ROSS_T1	5	4	-1	1.06	1.23	0.17	0	0	0	0	0	0	0	0
3/9/2025 13:22	57201	ROSS_T1	1	0	-1	0.1	0	-0.1	-0.75	-0.77	0	0	0	0	0	0
3/9/2025 13:25	57201	ROSS_T1	1	0	-1	0.1	0	-0.1	-1.5	-1.53	0	0	0	0	0	0
3/9/2025 13:25	57205	ROSS_T1	5	4	-1	1.06	1.23	0.17	0	0	0	0	0	0	0	0
3/9/2025 13:25	45901	AUBU_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/9/2025 13:25	45902	AUBU_T1	4	4	0	0.5	0.43	-0.07	0	0	1	1	0	600	600	0
3/9/2025 13:26	57201	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/9/2025 13:26	45902	AUBU_T1	4	4	0	0.5	0.43	-0.07	0	0	3	3	0	1800	1800	0
3/9/2025 13:26	57205	ROSS_T1	5	4	-1	1.06	1.23	0.17	-0.94	-0.94	1	1	0	900	900	0
3/9/2025 13:26	45901	AUBU_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/9/2025 13:27	57201	ROSS_T1	1	0	-1	0.1	0	-0.1	-0.75	-0.77	0	0	0	0	0	0
3/9/2025 13:27	57205	ROSS_T1	5	4	-1	1.06	1.23	0.17	0	0	0	0	0	0	0	0
3/9/2025 13:28	61001	DONV_T1	1	1	0	0.9	0.2	-0.7	-0.1	-0.08	0	0	0	0	0	0
3/9/2025 13:28	14102	TRUM_T2	6	4	-2	0.83	0.88	0.05	-0.2	0.37	2	1	-1	1500	600	-900
3/9/2025 13:28	14101	TRUM_T2	3	1	-2	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
3/9/2025 13:28	14103	TRUM_T2	3	2	-1	0.93	0.7	-0.23	0	0	0	0	0	0	0	0
3/9/2025 13:29	45902	AUBU_T1	4	4	0	0.5	0.43	-0.07	0	0	1	1	0	600	600	0
3/9/2025 13:29	45901	AUBU_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/9/2025 13:30	11804	FRAN_T1	4	4	0	1.08	0.9	-0.18	0	0	0	0	0	0	0	0
3/9/2025 13:30	11805	FRAN_T1	4	0	-4	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/9/2025 13:31	24702	FLND_T2	7	1	-6	0.17	0.2	0.03	-0.72	-0.57	1	1	0	1200	1200	0
3/9/2025 13:31	24701	FLND_T2	0	6	6	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 13:32	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/9/2025 13:36	52403	GRPA_T2	22	24	2	0.74	0.75	0.01	0	0	0	0	0	0	0	0
3/9/2025 13:36	47101	MARL_T1	4	2	-2	0.18	0	-0.18	0	0	0	0	0	0	0	0
3/9/2025 13:36	52401	GRPA_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/9/2025 13:36	52402	GRPA_T2	6	10	4	0.47	0.54	0.07	0	0	0	0	0	0	0	0
3/9/2025 13:36	47104	MARL_T1	0	0	0	0	0	0	-2.25	-2.28	0	0	0	0	0	0
3/9/2025 13:36	65503	MOJO_T2	0	2	2	0	0.2	0.2	-0.15	-0.09	0	0	0	0	0	0
3/9/2025 13:37	65501	MOJO_T1	1	1	0	0.2	0.1	-0.1	-1.24	-1.27	1	1	0	900	900	0
3/9/2025 13:38	65503	MOJO_T2	0	2	2	0	0.2	0.2	-0.15	-0.09	0	0	0	0	0	0
3/9/2025 13:40	55105	WERT_T1	0	0	0	0	0	0	-0.75	-0.75	1	1	0	900	900	0
3/9/2025 13:40	24204	PROV_T3	1	2	1	5.8	2.9	-2.9	0	0	0	0	0	0	0	0
3/9/2025 13:40	24201	PROV_T3	3	3	0	5.63	5.47	-0.16	-1.41	-1.45	1	1	0	1200	1200	0
3/9/2025 13:41	67303	WYOM_T2	0	1	1	0	0.2	0.2	-0.66	-0.67	0	0	0	0	0	0
3/9/2025 13:41	57201	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 13:41	57205	ROSS_T1	4	4	0	1.18	1.2	0.02	-0.94	-0.91	1	1	0	900	900	0
3/9/2025 13:42	60104	COCA_T2	2	4	2	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/9/2025 13:42	60103	COCA_T2	0	1	1	0	0.1	0.1	-1.04	-1.1	0	0	0	0	0	0
3/9/2025 13:43	60103	COCA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 13:43	60104	COCA_T2	2	4	2	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/9/2025 13:44	20601	GRWO_T2	1	1	0	1.3	0.5	-0.8	0	0	0	0	0	0	0	0
3/9/2025 13:44	20603	GRWO_T2	1	2	1	0.1	0.15	0.05	0.42	0.39	0	0	0	0	0	0
3/9/2025 13:45	63804	HEMP_T1	1	1	0	5.8	5.7	-0.1	0.81	0.82	0	0	0	0	0	0
3/9/2025 13:45	63801	HEMP_T1	2	5	3	0.4	0.4	0	0	0	0	0	0	0	0	0
3/9/2025 13:45	41801	GOCI_T2	4	83	79	0.25	0.25	0	0	0	0	0	0	0	0	0
3/9/2025 13:45	63803	HEMP_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 13:45	60101	COCA_T1	7	10	3	0.64	0.52	-0.12	0	0	0	0	0	0	0	0
3/9/2025 13:45	60102	COCA_T1	5	3	-2	0.24	0.37	0.13	-0.74	-0.73	2	2	0	1200	1200	0
3/9/2025 13:46	61301	EARL_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
3/9/2025 13:46	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.15	0	0	0	0	0	0
3/9/2025 13:46	63803	HEMP_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 13:46	63804	HEMP_T1	1	0	-1	5.8	5.7	-0.1	0.81	0.82	0	0	0	0	0	0
3/9/2025 13:46	61306	EARL_T1	4	3	-1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/9/2025 13:46	61303	EARL_T1	3	2	-1	0.27	0.45	0.18	0	0	0	0	0	0	0	0
3/9/2025 13:46	41801	GOCI_T2	4	83	79	0.25	0.25	0	0	0	0	0	0	0	0	0
3/9/2025 13:46	60101	COCA_T1	7	10	3	0.64	0.52	-0.12	0.87	0.78	0	0	0	0	0	0
3/9/2025 13:46	61302	EARL_T1	3	7	4	0.4	0.41	0.01	0	0	0	0	0	0	0	0
3/9/2025 13:46	60102	COCA_T1	5	3	-2	0.24	0.37	0.13	0	0	0	0	0	0	0	0
3/9/2025 13:46	63801	HEMP_T1	2	5	3	0.4	0.4	0	0	0	0	0	0	0	0	0
3/9/2025 13:46	61304	EARL_T1	40	32	-8	0.22	0.24	0.02	0	0	0	0	0	0	0	0
3/9/2025 13:47	61306	EARL_T1	4	3	-1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/9/2025 13:47	61304	EARL_T1	40	32	-8	0.22	0.24	0.02	0	0	0	0	0	0	0	0
3/9/2025 13:47	60101	COCA_T1	7	10	3	0.64	0.52	-0.12	0.58	0.52	0	0	0	0	0	0
3/9/2025 13:47	61303	EARL_T1	3	2	-1	0.27	0.45	0.18	0.02	0.07	0	0	0	0	0	0
3/9/2025 13:47	60102	COCA_T1	5	3	-2	0.24	0.37	0.13	0	0	0	0	0	0	0	0
3/9/2025 13:47	61302	EARL_T1	3	7	4	0.4	0.41	0.01	0	0	0	0	0	0	0	0
3/9/2025 13:48	61302	EARL_T1	3	7	4	0.4	0.41	0.01	0	0	0	0	0	0	0	0
3/9/2025 13:48	61303	EARL_T1	3	2	-1	0.27	0.45	0.18	0.02	0.07	0	0	0	0	0	0
3/9/2025 13:48	61304	EARL_T1	40	32	-8	0.22	0.24	0.02	0	0	0	0	0	0	0	0
3/9/2025 13:48	61306	EARL_T1	4	3	-1	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/9/2025 13:48	52102	MEIS_T1	2	1	-1	0.15	0.5	0.35	0	0	0	0	0	0	0	0
3/9/2025 13:48	52101	MEIS_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
3/9/2025 13:49	61002	DONV_T2	0	0	0	0	0	0	-0.98	-1	1	1	0	600	600	0
3/9/2025 13:51	27503	WEIS_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/9/2025 13:51	47104	MARL_T1	0	0	0	0	0	0	-2.28	-2.19	0	0	0	0	0	0
3/9/2025 13:51	27502	WEIS_T2	0	1	1	0	0	0	-1.22	-1.22	0	0	0	0	0	0
3/9/2025 13:51	47101	MARL_T1	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 13:55	67605	WARW_T1	25	28	3	0.52	0.55	0.03	0	0	0	0	0	0	0	0
3/9/2025 13:55	67604	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 13:55	55105	WERT_T1	0	0	0	0	0	0	-0.75	-0.76	1	1	0	900	900	0
3/9/2025 13:56	67601	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 13:56	46001	BERW_T1	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
3/9/2025 13:56	67605	WARW_T1	25	28	3	0.52	0.55	0.03	-0.89	-0.94	0	0	0	0	0	0
3/9/2025 13:57	67605	WARW_T1	25	28	3	0.52	0.55	0.03	-1.78	-1.88	0	0	0	0	0	0
3/9/2025 13:59	51904	COPA_T1	7	10	3	0.93	1.02	0.09	-1.71	-1.74	2	2	0	1200	1200	0
3/9/2025 13:59	51901	COPA_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/9/2025 13:59	51906	COPA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 14:00	63801	HEMP_T1	4	5	1	0.48	0.38	-0.1	-0.41	-0.4	0	0	0	0	0	0
3/9/2025 14:00	63804	HEMP_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
3/9/2025 14:00	63803	HEMP_T1	2	1	-1	0.15	0.3	0.15	0	0	0	0	0	0	0	0
3/9/2025 14:01	51904	COPA_T1	6	10	4	1.08	1.03	-0.05	-1.71	-1.74	2	2	0	1200	1200	0
3/9/2025 14:01	51901	COPA_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/9/2025 14:01	51906	COPA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 14:01	40702	FFLD_T1	0	0	0	0	0	0	-2.17	-2.18	1	1	0	1200	1200	0
3/9/2025 14:02	67605	WARW_T1	26	28	2	0.55	0.65	0.1	-0.89	-0.94	0	0	0	0	0	0
3/9/2025 14:03	17805	GILB_T2	1	0	-1	0.1	0	-0.1	-0.09	-0.13	0	0	0	0	0	0
3/9/2025 14:03	17804	GILB_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/9/2025 14:04	12401	MILF_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
3/9/2025 14:04	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 14:04	12402	MILF_T1	10	10	0	0.59	0.47	-0.12	-1.33	-1.34	0	0	0	0	0	0
3/9/2025 14:04	67605	WARW_T1	26	28	2	0.55	0.65	0.1	0	0	0	0	0	0	0	0
3/9/2025 14:05	40601	PIGR_T1	2	5	3	0.25	0.46	0.21	0	0	0	0	0	0	0	0
3/9/2025 14:05	40603	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 14:07	40601	PIGR_T1	2	5	3	0.25	0.46	0.21	-0.83	-0.86	0	0	0	0	0	0
3/9/2025 14:07	40603	PIGR_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 14:09	24201	PROV_T3	3	3	0	5.5	5.53	0.03	-1.44	-1.42	1	1	0	1200	1200	0
3/9/2025 14:09	24204	PROV_T3	2	1	-1	2.85	5.8	2.95	0	0	0	0	0	0	0	0
3/9/2025 14:10	67901	WNHO_T2	10	16	6	0.36	0.54	0.18	-0.17	-0.18	0	0	0	0	0	0
3/9/2025 14:12	60101	COCA_T1	7	10	3	0.63	0.48	-0.15	0.26	0.27	0	0	0	0	0	0
3/9/2025 14:12	42601	TUSC_T1	0	8	8	0	0.1	0.1	-0.5	-0.46	1	1	0	1200	1200	0
3/9/2025 14:12	46004	BERW_T2	0	3	3	0	0.63	0.63	-0.77	-0.82	0	0	0	0	0	0
3/9/2025 14:12	60102	COCA_T1	3	1	-2	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
3/9/2025 14:12	46002	BERW_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/9/2025 14:12	67901	WNHO_T2	10	16	6	0.36	0.54	0.18	0	0	0	0	0	0	0	0
3/9/2025 14:13	67901	WNHO_T2	10	16	6	0.36	0.54	0.18	-0.17	-0.18	0	0	0	0	0	0
3/9/2025 14:17	60102	COCA_T1	1	5	4	0.2	0.2	0	-0.63	-0.65	2	2	0	1200	1200	0
3/9/2025 14:17	40504	CRES_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
3/9/2025 14:17	40505	CRES_T1	0	1	1	0	0.3	0.3	0.26	0.28	0	0	0	0	0	0
3/9/2025 14:17	60101	COCA_T1	10	10	0	0.48	0.48	0	0	0	0	0	0	0	0	0
3/9/2025 14:21	60101	COCA_T1	10	10	0	0.48	0.48	0	0.27	0.26	0	0	0	0	0	0
3/9/2025 14:21	60102	COCA_T1	1	5	4	0.2	0.2	0	0	0	0	0	0	0	0	0
3/9/2025 14:22	52403	GRPA_T2	18	37	19	0.73	0.57	-0.16	-0.71	-0.73	0	0	0	0	0	0
3/9/2025 14:22	52401	GRPA_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/9/2025 14:22	52402	GRPA_T2	7	5	-2	0.47	0.48	0.01	0	0	0	0	0	0	0	0
3/9/2025 14:24	66505	SMAN_T2	3	4	1	0.3	0.43	0.13	0	0	0	0	0	0	0	0
3/9/2025 14:24	52403	GRPA_T2	18	37	19	0.73	0.57	-0.16	-0.71	-0.73	0	0	0	0	0	0
3/9/2025 14:24	66504	SMAN_T2	3	3	0	0.5	0.73	0.23	0	0	0	0	0	0	0	0
3/9/2025 14:24	52402	GRPA_T2	7	5	-2	0.47	0.48	0.01	0	0	0	0	0	0	0	0
3/9/2025 14:24	52401	GRPA_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/9/2025 14:25	66504	SMAN_T2	3	3	0	0.5	0.73	0.23	-0.6	-0.6	0	0	0	0	0	0
3/9/2025 14:25	21402	EXET_T2	1	9	8	0.1	0.19	0.09	0	0	0	0	0	0	0	0
3/9/2025 14:25	21403	EXET_T2	0	0	0	0	0	0	-1.4	-1.39	0	0	0	0	0	0
3/9/2025 14:25	66505	SMAN_T2	3	4	1	0.3	0.43	0.13	0	0	0	0	0	0	0	0
3/9/2025 14:26	66505	SMAN_T2	3	4	1	0.3	0.43	0.13	0	0	0	0	0	0	0	0
3/9/2025 14:26	66504	SMAN_T2	3	3	0	0.5	0.73	0.23	0	0	0	0	0	0	0	0
3/9/2025 14:26	66503	SMAN_T2	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/9/2025 14:28	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 14:28	41602	CLEV_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/9/2025 14:30	14603	SWHI_T1	1	3	2	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
3/9/2025 14:30	14604	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 14:30	51002	NHAR_T1	5	24	19	0.42	0.21	-0.21	0	0	0	0	0	0	0	0
3/9/2025 14:30	51003	NHAR_T1	1	1	0	6.6	6.4	-0.2	0	0	0	0	0	0	0	0
3/9/2025 14:30	51004	NHAR_T1	2	7	5	5.5	1.67	-3.83	0	0	0	0	0	0	0	0
3/9/2025 14:33	41502	FAIR_T2	0	0	0	0	0	0	-1.64	-1.64	1	1	0	900	900	0
3/9/2025 14:33	41501	FAIR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 14:36	46901	MNTG_T2	0	1	1	0	0.3	0.3	-0.04	0.03	0	0	0	0	0	0
3/9/2025 14:36	46903	MNTG_T2	1	4	3	1.2	0.55	-0.65	-0.69	-0.68	1	1	0	600	600	0
3/9/2025 14:38	66902	SHIL_T2	4	4	0	0.2	0.2	0	-4.12	-4.06	0	0	0	0	0	0
3/9/2025 14:38	66901	SHIL_T2	3	6	3	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/9/2025 14:39	66901	SHIL_T2	3	6	3	0.3	0.28	-0.02	-1.86	-1.89	1	1	0	1200	1200	0
3/9/2025 14:39	66902	SHIL_T2	4	4	0	0.2	0.2	0	-2.06	-2.03	0	0	0	0	0	0
3/9/2025 14:40	40301	TAMA_T3	3	3	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
3/9/2025 14:40	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 14:40	66504	SMAN_T2	3	2	-1	0.73	0.9	0.17	0	0	0	0	0	0	0	0
3/9/2025 14:40	66902	SHIL_T2	4	4	0	0.2	0.2	0	-4.12	-4.06	0	0	0	0	0	0
3/9/2025 14:40	40302	TAMA_T3	10	11	1	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
3/9/2025 14:40	66903	SHIL_T2	0	0	0	0	0	0	-3.48	-3.54	0	0	0	0	0	0
3/9/2025 14:40	66901	SHIL_T2	3	6	3	0.3	0.28	-0.02	-1.86	-1.89	1	1	0	1200	1200	0
3/9/2025 14:40	40303	TAMA_T3	0	0	0	0	0	0	2.46	2.6	0	0	0	0	0	0
3/9/2025 14:40	13302	ORVI_T2	3	4	1	1.13	1.05	-0.08	1.39	1.32	0	0	0	0	0	0
3/9/2025 14:40	66505	SMAN_T2	4	3	-1	0.43	0.43	0	0	0	0	0	0	0	0	0
3/9/2025 14:41	66901	SHIL_T2	3	6	3	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/9/2025 14:41	66902	SHIL_T2	4	4	0	0.2	0.2	0	-2.06	-2.03	0	0	0	0	0	0
3/9/2025 14:41	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 14:42	66502	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 14:42	66504	SMAN_T2	3	2	-1	0.73	0.9	0.17	-0.6	-0.66	0	0	0	0	0	0
3/9/2025 14:42	66505	SMAN_T2	4	3	-1	0.43	0.43	0	0	0	0	0	0	0	0	0
3/9/2025 14:42	66901	SHIL_T2	3	6	3	0.3	0.28	-0.02	-1.86	-1.89	1	1	0	1200	1200	0
3/9/2025 14:42	66902	SHIL_T2	4	4	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/9/2025 14:44	60101	COCA_T1	5	12	7	0.44	0.43	-0.01	0.26	0.22	0	0	0	0	0	0
3/9/2025 14:44	44801	EDAN_T2	4	4	0	0.4	0.38	-0.02	-0.43	-0.45	0	0	0	0	0	0
3/9/2025 14:44	60102	COCA_T1	0	5	5	0	0.26	0.26	0	0	0	0	0	0	0	0
3/9/2025 14:45	46203	DANV_T2	159	166	7	0.67	0.66	-0.01	-1.07	-1.08	0	0	0	0	0	0
3/9/2025 14:49	47101	MARL_T1	10	9	-1	0.56	0.48	-0.08	0	0	0	0	0	0	0	0
3/9/2025 14:49	47104	MARL_T1	0	0	0	0	0	0	-2.26	-2.29	0	0	0	0	0	0
3/9/2025 14:50	52401	GRPA_T2	2	3	1	0.25	0.37	0.12	0	0	0	0	0	0	0	0
3/9/2025 14:50	52403	GRPA_T2	37	34	-3	0.57	0.6	0.03	-0.73	-0.73	0	0	0	0	0	0
3/9/2025 14:50	12401	MILF_T1	1	1	0	0.9	0.7	-0.2	-0.41	-0.4	0	0	0	0	0	0
3/9/2025 14:50	12402	MILF_T1	10	11	1	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
3/9/2025 14:50	52402	GRPA_T2	3	7	4	0.57	0.57	0	0	0	0	0	0	0	0	0
3/9/2025 14:52	12402	MILF_T1	10	11	1	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
3/9/2025 14:52	12401	MILF_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
3/9/2025 14:58	67605	WARW_T1	25	29	4	0.61	0.65	0.04	0	0	0	0	0	0	0	0
3/9/2025 14:58	67604	WARW_T1	0	0	0	0	0	0	0.04	0.07	0	0	0	0	0	0
3/9/2025 14:58	67603	WARW_T1	1	2	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
3/9/2025 14:59	52401	GRPA_T2	2	3	1	0.25	0.37	0.12	0	0	0	0	0	0	0	0
3/9/2025 14:59	67605	WARW_T1	25	29	4	0.61	0.65	0.04	-0.96	-0.92	0	0	0	0	0	0
3/9/2025 14:59	67604	WARW_T1	0	0	0	0	0	0	0.09	0.14	0	0	0	0	0	0
3/9/2025 14:59	67603	WARW_T1	1	2	1	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
3/9/2025 14:59	52402	GRPA_T2	3	7	4	0.57	0.57	0	0	0	0	0	0	0	0	0
3/9/2025 14:59	52403	GRPA_T2	37	34	-3	0.57	0.6	0.03	-0.73	-0.74	0	0	0	0	0	0
3/9/2025 15:00	10801	CHHI_T1	5	11	6	0.42	0.5	0.08	-2.27	-2.25	3	3	0	2100	2100	0
3/9/2025 15:00	67604	WARW_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/9/2025 15:00	67605	WARW_T1	22	29	7	0.57	0.62	0.05	-0.96	-0.92	0	0	0	0	0	0
3/9/2025 15:01	46203	DANV_T2	161	149	-12	0.66	0.54	-0.12	-1.08	-1.1	0	0	0	0	0	0
3/9/2025 15:02	10805	CHHI_T2	8	24	16	1.06	0.53	-0.53	-2.14	-2.14	1	1	0	1200	1200	0
3/9/2025 15:02	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
3/9/2025 15:02	63802	HEMP_T1	0	0	0	0	0	0	0.08	0.19	0	0	0	0	0	0
3/9/2025 15:02	63801	HEMP_T1	10	9	-1	0.41	0.46	0.05	0	0	0	0	0	0	0	0
3/9/2025 15:02	17802	GILB_T1	2	2	0	0.55	0.85	0.3	0.12	0.18	0	0	0	0	0	0
3/9/2025 15:02	63803	HEMP_T1	2	6	4	0.15	0.25	0.1	0	0	0	0	0	0	0	0
3/9/2025 15:04	67603	WARW_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/9/2025 15:04	67605	WARW_T1	22	29	7	0.57	0.62	0.05	-0.96	-0.92	0	0	0	0	0	0
3/9/2025 15:05	20403	ASHF_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/9/2025 15:05	48301	ORWI_T1	2	4	2	5.55	2.95	-2.6	-0.13	-0.15	0	0	0	0	0	0
3/9/2025 15:05	20401	ASHF_T2	2	3	1	0.9	0.45	-0.45	0	0	0	0	0	0	0	0
3/9/2025 15:05	54504	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/9/2025 15:05	54503	ENOL_T2	0	0	0	0	0	0	-1.06	-1.08	1	1	0	600	600	0
3/9/2025 15:05	54501	ENOL_T2	4	4	0	0.33	0.43	0.1	0	0	0	0	0	0	0	0
3/9/2025 15:05	54502	ENOL_T2	4	2	-2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/9/2025 15:05	54505	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 15:06	63801	HEMP_T1	10	9	-1	0.41	0.46	0.05	0	0	0	0	0	0	0	0
3/9/2025 15:06	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
3/9/2025 15:06	63803	HEMP_T1	2	6	4	0.15	0.25	0.1	0	0	0	0	0	0	0	0
3/9/2025 15:06	63802	HEMP_T1	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
3/9/2025 15:08	48302	ORWI_T2	2	2	0	1.65	1.75	0.1	0	0	0	0	0	0	0	0
3/9/2025 15:08	13303	ORVI_T1	5	5	0	0.14	0.26	0.12	0.98	1.07	0	0	0	0	0	0
3/9/2025 15:08	48303	ORWI_T2	10	12	2	0.35	0.35	0	0.5	0.49	0	0	0	0	0	0
3/9/2025 15:10	46001	BERW_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
3/9/2025 15:10	67402	WAKE_T2	0	1	1	0	0.2	0.2	-0.42	-0.43	1	1	0	600	600	0
3/9/2025 15:10	46005	BERW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 15:10	45902	AUBU_T1	2	2	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/9/2025 15:10	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/9/2025 15:10	64101	REFR_T1	9	9	0	0.43	0.59	0.16	-0.15	-0.15	0	0	0	0	0	0
3/9/2025 15:10	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 15:11	45901	AUBU_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 15:11	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 15:11	45902	AUBU_T1	2	2	0	0.5	0.3	-0.2	0	0	2	2	0	1200	1200	0
3/9/2025 15:12	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	-1.18	-1.14	0	0	0	0	0	0
3/9/2025 15:12	67402	WAKE_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 15:14	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 15:14	46005	BERW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 15:15	42501	ALTA_T2	1	1	0	0.2	0	-0.2	0	0	1	1	0	600	600	0
3/9/2025 15:15	46001	BERW_T1	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
3/9/2025 15:15	46002	BERW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 15:15	46004	BERW_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
3/9/2025 15:15	46005	BERW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 15:19	44801	EDAN_T2	4	4	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
3/9/2025 15:19	40201	BEGA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/9/2025 15:19	40101	HUNT_T2	1	2	1	0.5	0.5	0	-1.5	-1.51	0	0	0	0	0	0
3/9/2025 15:20	41204	KENM_T2	0	0	0	0	0	0	-0.07	-0.04	0	0	0	0	0	0
3/9/2025 15:20	41202	KENM_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/9/2025 15:22	58401	MORO_T1	2	1	-1	0.35	0.5	0.15	-1.21	-1.22	1	1	0	600	600	0
3/9/2025 15:23	58401	MORO_T1	2	1	-1	0.35	0.5	0.15	-2.42	-2.44	2	2	0	1200	1200	0
3/9/2025 15:40	67502	WEWI_T2	3	4	1	0.5	0.5	0	0	0	0	0	0	0	0	0
3/9/2025 15:42	60701	BREC_T1	9	83	74	0.62	0.2	-0.42	-0.57	-0.57	1	1	0	600	600	0
3/9/2025 15:42	64101	REFR_T1	8	16	8	0.65	0.44	-0.21	-0.11	-0.14	0	0	0	0	0	0
3/9/2025 15:43	60701	BREC_T1	9	83	74	0.62	0.2	-0.42	-2.3	-2.3	4	4	0	2400	2400	0
3/9/2025 15:44	61306	EARL_T1	5	4	-1	0.16	0.18	0.02	0	0	0	0	0	0	0	0
3/9/2025 15:44	61303	EARL_T1	5	3	-2	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
3/9/2025 15:44	61302	EARL_T1	7	5	-2	0.51	0.36	-0.15	0	0	0	0	0	0	0	0
3/9/2025 15:44	61304	EARL_T1	65	58	-7	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
3/9/2025 15:44	60701	BREC_T1	9	83	74	0.62	0.2	-0.42	-1.72	-1.72	3	3	0	1800	1800	0
3/9/2025 15:44	61305	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 15:45	61306	EARL_T1	3	5	2	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/9/2025 15:45	61304	EARL_T1	52	50	-2	0.21	0.21	0	0	0	0	0	0	0	0	0
3/9/2025 15:45	61303	EARL_T1	2	3	1	0.4	0.47	0.07	0.03	0.03	0	0	0	0	0	0
3/9/2025 15:45	61302	EARL_T1	4	5	1	0.33	0.36	0.03	0	0	0	0	0	0	0	0
3/9/2025 15:45	61305	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/9/2025 15:45	60701	BREC_T1	10	142	132	0.49	0.18	-0.31	-1.72	-1.72	3	3	0	1800	1800	0
3/9/2025 15:46	61305	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/9/2025 15:46	61304	EARL_T1	52	50	-2	0.21	0.21	0	-0.33	-0.34	0	0	0	0	0	0
3/9/2025 15:46	61303	EARL_T1	2	3	1	0.4	0.47	0.07	0.03	0.03	0	0	0	0	0	0
3/9/2025 15:46	63501	HEID_TBK1-2	43	43	0	0.34	0.37	0.03	-0.34	-0.37	1	1	0	900	900	0
3/9/2025 15:46	61306	EARL_T1	3	5	2	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/9/2025 15:46	61302	EARL_T1	4	5	1	0.33	0.36	0.03	0	0	0	0	0	0	0	0
3/9/2025 15:46	60701	BREC_T1	10	142	132	0.49	0.18	-0.31	-0.57	-0.57	1	1	0	600	600	0
3/9/2025 15:47	41002	LAUR_T2	32	29	-3	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
3/9/2025 15:47	53903	HALI_T2	6	4	-2	0.65	0.98	0.33	-0.15	-0.13	0	0	0	0	0	0
3/9/2025 15:47	53902	HALI_T2	2	4	2	3.3	1.68	-1.62	0	0	0	0	0	0	0	0
3/9/2025 15:47	22101	EDEL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 15:47	41001	LAUR_T2	58	66	8	0.33	0.34	0.01	0	0	0	0	0	0	0	0
3/9/2025 15:47	60701	BREC_T1	10	142	132	0.49	0.18	-0.31	-0.57	-0.57	1	1	0	600	600	0
3/9/2025 15:47	61302	EARL_T1	4	5	1	0.33	0.36	0.03	0	0	0	0	0	0	0	0
3/9/2025 15:47	17802	GILB_T1	2	3	1	0.5	0.33	-0.17	0.14	0.16	0	0	0	0	0	0
3/9/2025 15:47	61305	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/9/2025 15:47	53901	HALI_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
3/9/2025 15:47	61306	EARL_T1	3	5	2	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/9/2025 15:47	61304	EARL_T1	52	50	-2	0.21	0.21	0	-0.33	-0.34	0	0	0	0	0	0
3/9/2025 15:47	44502	HAMI_T2	1	1	0	2.7	3	0.3	0.02	0.02	0	0	0	0	0	0
3/9/2025 15:47	61303	EARL_T1	2	3	1	0.4	0.47	0.07	0.07	0.06	0	0	0	0	0	0
3/9/2025 15:48	63501	HEID_TBK1-2	43	43	0	0.34	0.37	0.03	-0.34	-0.37	1	1	0	900	900	0
3/9/2025 15:50	63501	HEID_TBK1-2	43	43	0	0.34	0.37	0.03	-0.34	-0.37	1	1	0	900	900	0
3/9/2025 15:51	47104	MARL_T1	0	0	0	0	0	0	-2.26	-2.3	0	0	0	0	0	0
3/9/2025 15:51	47101	MARL_T1	3	9	6	0.23	0	-0.23	0	0	0	0	0	0	0	0
3/9/2025 15:57	42701	AUGU_T1	1	1	0	1.6	1.3	-0.3	0	0	2	2	0	1800	1800	0
3/9/2025 16:02	63501	HEID_TBK1-2	42	38	-4	0.36	0.3	-0.06	-0.37	-0.37	1	1	0	900	900	0
3/9/2025 16:03	22602	KIMB_T1	1	0	-1	0.3	0	-0.3	0.17	0.24	0	0	0	0	0	0
3/9/2025 16:03	41502	FAIR_T2	0	0	0	0	0	0	-1.68	-1.71	1	1	0	900	900	0
3/9/2025 16:12	52502	PROG_T2	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
3/9/2025 16:13	52402	GRPA_T2	4	4	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/9/2025 16:13	21204	ECAR_T2	2	2	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/9/2025 16:13	21206	ECAR_T2	1	1	0	7.7	8.2	0.5	1.07	1.07	0	0	0	0	0	0
3/9/2025 16:13	52403	GRPA_T2	10	4	-6	0.41	0.55	0.14	-0.68	-0.66	0	0	0	0	0	0
3/9/2025 16:13	52401	GRPA_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/9/2025 16:17	21204	ECAR_T2	2	5	3	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/9/2025 16:17	21206	ECAR_T2	1	1	0	8.1	8.2	0.1	1.07	1.07	0	0	0	0	0	0
3/9/2025 16:24	12601	MACA_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/9/2025 16:24	64101	REFR_T1	11	8	-3	0.44	0.26	-0.18	-0.14	-0.11	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/9/2025 16:24	12602	MACA_T1	16	2	-14	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
3/9/2025 16:24	12603	MACA_T1	3	1	-2	0.47	0.3	-0.17	0	0	0	0	0	0	0	0
3/9/2025 16:26	67903	WNHO_T1	0	0	0	0	0	0	0.02	0	1	1	0	1200	1200	0
3/9/2025 16:28	55105	WERT_T1	0	0	0	0	0	0	-0.76	-0.75	1	1	0	900	900	0
3/9/2025 16:35	63501	HEID_TBK1-2	24	1	-23	0.14	0.2	0.06	-0.44	-0.4	1	1	0	900	900	0
3/9/2025 16:55	60201	ATGL_T2	1	0	-1	0.1	0	-0.1	-1.02	-0.98	0	0	0	0	0	0
3/9/2025 17:08	52401	GRPA_T2	0	0	0	0	0	0	-0.91	-0.97	0	0	0	0	0	0
3/9/2025 17:14	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 17:15	24103	EHAZ_T1	0	0	0	0	0	0	-1.43	-1.52	0	0	0	0	0	0
3/9/2025 17:15	24102	EHAZ_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/9/2025 17:15	24101	EHAZ_T1	24	13	-11	1.95	0.37	-1.58	0	0	0	0	0	0	0	0
3/9/2025 17:15	24105	EHAZ_T1	4	4	0	6.63	6.43	-0.2	0	0	0	0	0	0	0	0
3/9/2025 17:22	12602	MACA_T1	26	4	-22	0.14	0.1	-0.04	-0.87	-0.85	0	0	0	0	0	0
3/9/2025 17:22	12603	MACA_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/9/2025 17:27	44901	SCOT_T2	0	0	0	0	0	0	-0.54	-0.52	0	0	0	0	0	0
3/9/2025 17:48	24202	PROV_T4	0	0	0	0	0	0	-0.91	-0.88	1	1	0	1200	1200	0
3/9/2025 17:55	66901	SHIL_T2	0	0	0	0	0	0	-1.89	-1.9	1	1	0	1200	1200	0
3/9/2025 18:00	40504	CRES_T1	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
3/9/2025 18:01	40504	CRES_T1	0	0	0	0	0	0	-0.77	-0.75	0	0	0	0	0	0
3/9/2025 18:02	46801	HEPB_T2	2	2	0	0.8	0.75	-0.05	0.48	0.49	0	0	0	0	0	0
3/9/2025 18:04	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
3/9/2025 18:36	58401	MORO_T1	0	0	0	0	0	0	-1.19	-1.24	1	1	0	600	600	0
3/9/2025 18:36	58402	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/9/2025 18:43	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 20:32	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 20:52	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 20:54	15704	TANN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 20:54	15701	TANN_T1	1	1	0	3.6	3.7	0.1	0	0	0	0	0	0	0	0
3/9/2025 20:56	40201	BEGA_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/9/2025 21:00	47104	MARL_T1	0	0	0	0	0	0	-2.26	-2.24	0	0	0	0	0	0
3/9/2025 21:02	41502	FAIR_T2	0	0	0	0	0	0	-1.68	-1.68	1	1	0	900	900	0
3/9/2025 21:02	10602	BLGL_T2	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
3/9/2025 21:04	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:04	15203	SPAR_T2	0	0	0	0	0	0	-1.33	-1.35	0	0	0	0	0	0
3/9/2025 21:04	20401	ASHF_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
3/9/2025 21:05	62604	ENGL_T1	0	0	0	0	0	0	-1.25	-1.28	1	1	0	600	600	0
3/9/2025 21:05	20603	GRWO_T2	0	0	0	0	0	0	0.41	0.38	0	0	0	0	0	0
3/9/2025 21:05	47104	MARL_T1	0	0	0	0	0	0	-2.26	-2.24	0	0	0	0	0	0
3/9/2025 21:06	66504	SMAN_T2	0	0	0	0	0	0	-1.44	-1.4	0	0	0	0	0	0
3/9/2025 21:06	63501	HEID_TBK1-2	35	35	0	0.39	0.47	0.08	-0.65	-0.63	1	1	0	900	900	0
3/9/2025 21:06	61303	EARL_T1	0	0	0	0	0	0	-0.1	-0.04	0	0	0	0	0	0
3/9/2025 21:06	66505	SMAN_T2	3	3	0	0.5	0.67	0.17	0	0	0	0	0	0	0	0
3/9/2025 21:06	65503	MOJO_T2	0	1	1	0	0	0	-0.26	-0.26	0	0	0	0	0	0
3/9/2025 21:06	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.13	0	0	0	0	0	0
3/9/2025 21:06	12402	MILF_T1	1	1	0	0.8	0	-0.8	-1.34	-1.33	0	0	0	0	0	0
3/9/2025 21:06	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/9/2025 21:06	17802	GILB_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
3/9/2025 21:07	40501	CRES_T2	8	9	1	0.21	0.29	0.08	0	0	0	0	0	0	0	0
3/9/2025 21:07	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 21:07	21206	ECAR_T2	1	1	0	7.2	8.1	0.9	1.23	1.21	0	0	0	0	0	0
3/9/2025 21:07	66903	SHIL_T2	0	0	0	0	0	0	-1.29	-1.28	0	0	0	0	0	0
3/9/2025 21:07	48301	ORWI_T1	2	2	0	4.85	4.9	0.05	-0.11	-0.14	0	0	0	0	0	0
3/9/2025 21:07	63501	HEID_TBK1-2	35	35	0	0.39	0.47	0.08	-0.65	-0.63	1	1	0	900	900	0
3/9/2025 21:07	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:07	44201	POIN_T1	98	140	42	0.26	0.33	0.07	-6.26	-6.41	3	3	0	3600	3600	0
3/9/2025 21:07	40502	CRES_T2	3	3	0	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
3/9/2025 21:07	40505	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:07	21204	ECAR_T2	2	5	3	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/9/2025 21:07	64204	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 21:07	66902	SHIL_T2	0	0	0	0	0	0	-2.05	-2.04	0	0	0	0	0	0
3/9/2025 21:07	44901	SCOT_T2	0	0	0	0	0	0	-1	-0.97	0	0	0	0	0	0
3/9/2025 21:07	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:08	63501	HEID_TBK1-2	35	35	0	0.39	0.47	0.08	-0.65	-0.63	1	1	0	900	900	0
3/9/2025 21:08	24101	EHAZ_T1	37	31	-6	1.52	0.94	-0.58	0	0	0	0	0	0	0	0
3/9/2025 21:08	16302	ALPA_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
3/9/2025 21:08	24103	EHAZ_T1	0	0	0	0	0	0	-2.44	-2.41	0	0	0	0	0	0
3/9/2025 21:08	24102	EHAZ_T1	10	7	-3	1.24	1.25	0.01	0	0	0	0	0	0	0	0
3/9/2025 21:08	12602	MACA_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
3/9/2025 21:08	14404	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:08	12401	MILF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:08	13303	ORVI_T1	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
3/9/2025 21:08	10805	CHHI_T2	1	1	0	7	7.2	0.2	-2.02	-2.02	1	1	0	1200	1200	0
3/9/2025 21:08	24105	EHAZ_T1	16	14	-2	2.16	3.03	0.87	0	0	0	0	0	0	0	0
3/9/2025 21:08	12402	MILF_T1	1	1	0	0.8	0	-0.8	0	0	0	0	0	0	0	0
3/9/2025 21:08	16101	BING_T2	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
3/9/2025 21:08	60701	BREC_T1	0	1	1	0	0	0	-0.6	-0.62	1	1	0	600	600	0
3/9/2025 21:08	14403	SSLA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:08	60801	BUCK_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	600	600	0
3/9/2025 21:09	17802	GILB_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
3/9/2025 21:09	66903	SHIL_T2	0	0	0	0	0	0	-1.29	-1.28	0	0	0	0	0	0
3/9/2025 21:09	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:09	54203	PENN_T1	18	18	0	0.62	0.93	0.31	-0.14	-0.16	0	0	0	0	0	0
3/9/2025 21:09	40504	CRES_T1	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
3/9/2025 21:09	66901	SHIL_T2	0	0	0	0	0	0	-3.76	-3.76	2	2	0	2400	2400	0
3/9/2025 21:09	40303	TAMA_T3	0	0	0	2.54	0	0	2.58	0	0	0	0	0	0	0
3/9/2025 21:09	63804	HEMP_T1	1	1	0	6.3	5.9	-0.4	0	0	0	0	0	0	0	0
3/9/2025 21:09	20601	GRWO_T2	0	0	0	0	0	0	-0.31	-0.26	0	0	0	0	0	0
3/9/2025 21:09	63802	HEMP_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
3/9/2025 21:09	54201	PENN_T1	9	15	6	0.79	0.71	-0.08	0	0	0	0	0	0	0	0
3/9/2025 21:09	61304	EARL_T1	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
3/9/2025 21:09	48302	ORWI_T2	2	2	0	1.4	1.4	0	-0.78	-0.79	0	0	0	0	0	0
3/9/2025 21:09	62604	ENGL_T1	0	0	0	0	0	0	-1.28	-1.27	1	1	0	600	600	0
3/9/2025 21:09	40302	TAMA_T3	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0	0
3/9/2025 21:09	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:09	65207	PRIN_T4	4	5	1	1.3	0.8	-0.5	0	0	0	0	0	0	0	0
3/9/2025 21:09	65201	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:10	10801	CHHI_T1	0	0	0	0	0	0	-2.23	-2.22	3	3	0	2100	2100	0
3/9/2025 21:10	52502	PROG_T2	0	1	1	0	0	0	-0.66	-0.65	1	1	0	900	900	0
3/9/2025 21:10	21203	ECAR_T1	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
3/9/2025 21:10	54201	PENN_T1	9	15	6	0.79	0.71	-0.08	-1.34	-1.32	0	0	0	0	0	0
3/9/2025 21:10	23001	SAJO_T1	0	0	0	0	0	0	-1.51	-1.49	0	0	0	0	0	0
3/9/2025 21:10	67604	WARW_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
3/9/2025 21:10	61304	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:10	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/9/2025 21:10	42701	AUGU_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
3/9/2025 21:10	60701	BREC_T1	0	1	1	0	0	0	-0.6	-0.62	1	1	0	600	600	0
3/9/2025 21:10	13302	ORVI_T2	0	0	0	0	0	0	1.37	1.4	0	0	0	0	0	0
3/9/2025 21:10	16302	ALPA_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
3/9/2025 21:10	60301	TWVA_T2	0	0	0	0	0	0	-1.99	-1.98	2	2	0	1800	1800	0
3/9/2025 21:10	54203	PENN_T1	18	18	0	0.62	0.93	0.31	0	0	0	0	0	0	0	0
3/9/2025 21:11	60101	COCA_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
3/9/2025 21:11	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:11	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:11	46903	MNTG_T2	0	0	0	0	0	0	-0.66	-0.69	1	1	0	600	600	0
3/9/2025 21:11	24204	PROV_T3	2	3	1	2.85	2	-0.85	0	0	0	0	0	0	0	0
3/9/2025 21:11	52502	PROG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:11	51002	NHAR_T1	1	2	1	1.3	1.4	0.1	0	0	0	0	0	0	0	0
3/9/2025 21:11	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:11	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 21:11	40501	CRES_T2	8	9	1	0.21	0.29	0.08	0	0	0	0	0	0	0	0
3/9/2025 21:11	61304	EARL_T1	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
3/9/2025 21:11	51003	NHAR_T1	1	1	0	6.9	6.5	-0.4	0	0	0	0	0	0	0	0
3/9/2025 21:11	51904	COPA_T1	0	5	5	0	0.38	0.38	-1.08	-1.08	2	2	0	1200	1200	0
3/9/2025 21:11	24201	PROV_T3	3	3	0	5.37	5.4	0.03	1.47	1.47	1	1	0	1200	1200	0
3/9/2025 21:11	40502	CRES_T2	3	3	0	0.17	0.1	-0.07	0.14	0.12	0	0	0	0	0	0
3/9/2025 21:11	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:11	51004	NHAR_T1	2	2	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
3/9/2025 21:11	64204	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 21:11	46005	BERW_T1	11	11	0	0.38	0	-0.38	0	0	0	0	0	0	0	0
3/9/2025 21:11	67605	WARW_T1	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
3/9/2025 21:12	64204	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 21:12	12602	MACA_T1	0	0	0	0	0	0	-0.87	-0.86	0	0	0	0	0	0
3/9/2025 21:12	22602	KIMB_T1	1	1	0	0.3	0.3	0	0.12	0.12	0	0	0	0	0	0
3/9/2025 21:12	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:12	67604	WARW_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
3/9/2025 21:12	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:12	63501	HEID_TBK1-2	35	35	0	0.39	0.47	0.08	-1.3	-1.26	2	2	0	1800	1800	0
3/9/2025 21:12	40502	CRES_T2	3	3	0	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
3/9/2025 21:12	16302	ALPA_T2	0	0	0	0	0	0	0.43	0.43	0	0	0	0	0	0
3/9/2025 21:12	63202	MGTN_T2	1	2	1	4.6	0	-4.6	0.35	0.37	0	0	0	0	0	0
3/9/2025 21:12	66505	SMAN_T2	3	3	0	0.5	0.67	0.17	0	0	0	0	0	0	0	0
3/9/2025 21:12	42701	AUGU_T1	1	1	0	0.4	1	0.6	0	0	4	4	0	3600	3600	0
3/9/2025 21:12	23001	SAJO_T1	0	0	0	0	0	0	-1.51	-1.49	0	0	0	0	0	0
3/9/2025 21:12	63804	HEMP_T1	1	1	0	6.3	5.9	-0.4	0	0	0	0	0	0	0	0
3/9/2025 21:12	16103	BING_T2	0	0	0	0	0	0	-1.12	-1.11	2	2	0	1500	1500	0
3/9/2025 21:12	60102	COCA_T1	0	0	0	0	0	0	-1.35	-1.35	2	2	0	1200	1200	0
3/9/2025 21:12	66902	SHIL_T2	0	0	0	0	0	0	-4.1	-4.08	0	0	0	0	0	0
3/9/2025 21:12	64203	KINZ_T1	0	0	0	0	0	0	-0.56	-0.52	1	1	0	600	600	0
3/9/2025 21:12	40501	CRES_T2	8	9	1	0.21	0.29	0.08	0	0	0	0	0	0	0	0
3/9/2025 21:12	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:12	13904	SEID_T1	10	4	-6	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
3/9/2025 21:12	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/9/2025 21:12	61306	EARL_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/9/2025 21:12	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/9/2025 21:12	51107	CARL_T1	4	7	3	0.15	0.21	0.06	0	0	0	0	0	0	0	0
3/9/2025 21:12	60801	BUCK_T1	0	0	0	0	0	0	-0.93	-0.93	1	1	0	600	600	0
3/9/2025 21:12	63802	HEMP_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
3/9/2025 21:12	66504	SMAN_T2	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
3/9/2025 21:12	46001	BERW_T1	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
3/9/2025 21:12	61301	EARL_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
3/9/2025 21:12	61303	EARL_T1	0	0	0	0	0	0	-0.1	-0.04	0	0	0	0	0	0
3/9/2025 21:12	46005	BERW_T1	11	11	0	0.38	0	-0.38	0	0	0	0	0	0	0	0
3/9/2025 21:12	41602	CLEV_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/9/2025 21:12	51101	CARL_T1	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
3/9/2025 21:12	44502	HAMI_T2	1	1	0	3	3.3	0.3	0.02	0.02	0	0	0	0	0	0
3/9/2025 21:12	65802	RTWN_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
3/9/2025 21:12	60101	COCA_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
3/9/2025 21:12	44902	SCOT_T2	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
3/9/2025 21:12	40505	CRES_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
3/9/2025 21:12	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:13	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
3/9/2025 21:13	61301	EARL_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
3/9/2025 21:13	60701	BREC_T1	0	1	1	0	0	0	-0.6	-0.62	1	1	0	600	600	0
3/9/2025 21:13	44901	SCOT_T2	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
3/9/2025 21:13	67303	WYOM_T2	0	0	0	0	0	0	-0.82	-0.81	0	0	0	0	0	0
3/9/2025 21:13	22602	KIMB_T1	1	1	0	0.3	0.3	0	0.12	0.12	0	0	0	0	0	0
3/9/2025 21:13	24202	PROV_T4	4	22	18	0.18	0.19	0.01	-0.95	-0.94	1	1	0	1200	1200	0
3/9/2025 21:13	66902	SHIL_T2	0	0	0	0	0	0	-4.1	-4.08	0	0	0	0	0	0
3/9/2025 21:13	44903	SCOT_T1	0	0	0	0	0	0	-0.96	-0.95	0	0	0	0	0	0
3/9/2025 21:13	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:13	54201	PENN_T1	9	15	6	0.79	0.71	-0.08	-2.68	-2.64	0	0	0	0	0	0
3/9/2025 21:13	60101	COCA_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
3/9/2025 21:13	67605	WARW_T1	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
3/9/2025 21:13	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.13	0	0	0	0	0	0
3/9/2025 21:13	45501	DERR_T2	0	0	0	0	0	0	-0.89	-0.84	2	2	0	1800	1800	0
3/9/2025 21:13	61306	EARL_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
3/9/2025 21:13	61303	EARL_T1	0	0	0	0	0	0	-0.1	-0.04	0	0	0	0	0	0
3/9/2025 21:13	61302	EARL_T1	0	0	0	0	0	0	0.72	0.68	1	1	0	600	600	0
3/9/2025 21:13	17802	GILB_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
3/9/2025 21:13	54203	PENN_T1	18	18	0	0.62	0.93	0.31	0	0	0	0	0	0	0	0
3/9/2025 21:13	65503	MOID_T2	0	1	1	0	0	0	-0.26	-0.26	0	0	0	0	0	0
3/9/2025 21:13	60502	NMAN_T2	0	0	0	0	0	0	-0.66	-0.56	0	0	0	0	0	0
3/9/2025 21:13	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:13	23401	HONE_T2	1	0	-1	0.4	0	-0.4	-0.81	-0.83	0	0	0	0	0	0
3/9/2025 21:14	16102	BING_T2	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
3/9/2025 21:14	11804	FRAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:14	53903	HALI_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
3/9/2025 21:14	10401	LIGA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:14	40201	BEGA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:14	14601	SWHI_T1	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
3/9/2025 21:14	14403	SSLA_T1	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
3/9/2025 21:14	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:14	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:14	60502	NMAN_T2	0	0	0	0	0	0	-0.66	-0.56	0	0	0	0	0	0
3/9/2025 21:14	53901	HALI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:14	44904	SCOT_T1	0	0	0	0	0	0	0.5	0.53	0	0	0	0	0	0
3/9/2025 21:14	54505	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 21:14	60801	BUCK_T1	0	0	0	0	0	0	-1.86	-1.86	2	2	0	1200	1200	0
3/9/2025 21:14	54501	ENOL_T2	0	0	0	0	0	0	-1.12	-1.08	1	1	0	600	600	0
3/9/2025 21:14	42601	TUSC_T1	16	3	-13	1.09	0.2	-0.89	-0.63	-0.64	1	1	0	1200	1200	0
3/9/2025 21:14	14404	SSLA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:14	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:14	13302	ORVI_T2	0	0	0	0	0	0	2.73	2.79	0	0	0	0	0	0
3/9/2025 21:14	45502	DERR_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
3/9/2025 21:14	53902	HALI_T2	1	1	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
3/9/2025 21:14	67605	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:14	63501	HEID_TBK1-2	35	35	0	0.39	0.47	0.08	-0.65	-0.63	1	1	0	900	900	0
3/9/2025 21:14	12606	MACA_T1	0	0	0	0	0	0	0.69	0.68	0	0	0	0	0	0
3/9/2025 21:14	66902	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:14	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/9/2025 21:14	67604	WARW_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
3/9/2025 21:14	60701	BREC_T1	0	1	1	0	0	0	-0.6	-0.62	1	1	0	600	600	0
3/9/2025 21:14	42102	FRAI_T1	0	0	0	0	0	0	0	0	1	1	0	900	900	0
3/9/2025 21:15	66901	SHIL_T2	0	0	0	0	0	0	-1.88	-1.88	1	1	0	1200	1200	0
3/9/2025 21:15	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:15	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:15	54203	PENN_T1	18	18	0	0.83	0.96	0.13	-0.14	-0.16	0	0	0	0	0	0
3/9/2025 21:15	66505	SMAN_T2	3	3	0	0.6	0.67	0.07	0	0	0	0	0	0	0	0
3/9/2025 21:15	46801	HEPB_T2	2	2	0	0.45	0.75	0.3	0	0	0	0	0	0	0	0
3/9/2025 21:15	61001	DONV_T1	0	0	0	0	0	0	-0.1	-0.15	0	0	0	0	0	0
3/9/2025 21:15	48302	ORWI_T2	2	2	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
3/9/2025 21:15	48303	ORWI_T2	0	0	0	0	0	0	0.45	0.41	0	0	0	0	0	0
3/9/2025 21:15	57201	ROSS_T1	0	0	0	0	0	0	-0.82	-0.91	0	0	0	0	0	0
3/9/2025 21:15	65202	PRIN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/9/2025 21:15	54201	PENN_T1	14	15	1	0.64	0.65	0.01	0	0	0	0	0	0	0	0
3/9/2025 21:15	21403	EXET_T2	0	0	0	0	0	0	-1.44	-1.45	0	0	0	0	0	0
3/9/2025 21:15	21402	EXET_T2	1	7	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/9/2025 21:15	67903	WNHO_T1	0	0	0	0	0	0	-0.01	-0.03	1	1	0	1200	1200	0
3/9/2025 21:15	60701	BREC_T1	1	0	-1	0.2	0	-0.2	-0.6	-0.62	1	1	0	600	600	0
3/9/2025 21:15	46803	HEPB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:15	40101	HUNT_T2	0	0	0	0	0	0	-1.43	-1.45	0	0	0	0	0	0
3/9/2025 21:15	65203	PRIN_T1	0	1	1	0	0.1	0.1	0	0	1	1	0	900	900	0
3/9/2025 21:15	20401	ASHF_T2	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
3/9/2025 21:15	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
3/9/2025 21:15	63501	HEID_TBK1-2	33	35	2	0.44	0.62	0.18	-0.65	-0.63	1	1	0	900	900	0
3/9/2025 21:15	44505	HAMI_T2	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
3/9/2025 21:15	66504	SMAN_T2	0	0	0	0	0	0	-0.72	-0.7	0	0	0	0	0	0
3/9/2025 21:15	61303	EARL_T1	0	0	0	0	0	0	-0.1	-0.04	0	0	0	0	0	0
3/9/2025 21:15	44502	HAMI_T2	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0	0
3/9/2025 21:15	65205	PRIN_T1	1	1	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
3/9/2025 21:15	67402	WAKE_T2	0	0	0	0	0	0	-0.46	-0.42	1	1	0	600	600	0
3/9/2025 21:15	66902	SHIL_T2	0	0	0	0	0	0	-2.05	-2.04	0	0	0	0	0	0
3/9/2025 21:15	40504	CRES_T1	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
3/9/2025 21:15	44801	EDAN_T2	0	0	0	0	0	0	-0.45	-0.51	0	0	0	0	0	0
3/9/2025 21:15	61304	EARL_T1	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
3/9/2025 21:16	60701	BREC_T1	1	0	-1	0.2	0	-0.2	-0.6	-0.62	1	1	0	600	600	0
3/9/2025 21:16	21204	ECAR_T2	1	5	4	0	0.35	0.35	0	0	0	0	0	0	0	0
3/9/2025 21:16	44502	HAMI_T2	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0	0
3/9/2025 21:16	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:16	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:16	13303	ORVI_T1	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
3/9/2025 21:16	42701	AUGU_T1	1	1	0	0.9	1	0.1	0	0	4	4	0	3600	3600	0
3/9/2025 21:16	61304	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:16	45501	DERR_T2	0	0	0	0	0	0	-0.89	-0.84	2	2	0	1800	1800	0
3/9/2025 21:16	47403	PENS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:16	40505	CRES_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
3/9/2025 21:16	16102	BING_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/9/2025 21:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:16	67605	WARW_T1	0	0	0	0	0	0	-0.88	-0.89	0	0	0	0	0	0
3/9/2025 21:16	66903	SHIL_T2	0	0	0	0	0	0	-1.29	-1.28	0	0	0	0	0	0
3/9/2025 21:16	54505	ENOL_T2	1	1	0	0.1	0.2	0.1	-0.65	-0.65	1	1	0	600	600	0
3/9/2025 21:16	54502	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:16	21206	ECAR_T2	1	1	0	7.7	8.2	0.5	1.23	1.21	0	0	0	0	0	0
3/9/2025 21:16	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:16	42501	ALTA_T2	0	0	0	0	0	0	-0.04	-0.06	1	1	0	600	600	0
3/9/2025 21:17	46801	HEPB_T2	2	2	0	0.45	0.75	0.3	0.6	0.5	0	0	0	0	0	0
3/9/2025 21:17	40502	CRES_T2	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/9/2025 21:17	45501	DERR_T2	0	0	0	0	0	0	-0.89	-0.84	2	2	0	1800	1800	0
3/9/2025 21:17	46203	DANV_T2	58	117	59	0.37	0.53	0.16	-2.32	-2.32	0	0	0	0	0	0
3/9/2025 21:17	67601	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:17	17002	RIRO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:17	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:17	46002	BERW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:17	65802	RTWN_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
3/9/2025 21:17	66505	SMAN_T2	3	3	0	0.6	0.67	0.07	0	0	0	0	0	0	0	0
3/9/2025 21:17	41002	LAUR_T2	1	1	0	2	2	0	0	0	0	0	0	0	0	0
3/9/2025 21:17	40504	CRES_T1	0	0	0	0	0	0	-0.77	-0.76	0	0	0	0	0	0
3/9/2025 21:17	64203	KINZ_T1	0	0	0	0	0	0	-0.56	-0.52	1	1	0	600	600	0
3/9/2025 21:17	57201	ROSS_T1	0	0	0	0	0	0	-1.64	-1.83	0	0	0	0	0	0
3/9/2025 21:17	42701	AUGU_T1	1	1	0	0.9	1	0.1	0	0	2	2	0	1800	1800	0
3/9/2025 21:17	47104	MARL_T1	0	0	0	0	0	0	-2.24	-2.23	0	0	0	0	0	0
3/9/2025 21:17	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	-0.34	-0.36	0	0	0	0	0	0
3/9/2025 21:17	64201	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/9/2025 21:17	61304	EARL_T1	0	0	0	0	0	0	-0.74	-0.76	0	0	0	0	0	0
3/9/2025 21:17	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0.02	1	1	0	900	900	0
3/9/2025 21:17	60701	BREC_T1	1	0	-1	0.2	0	-0.2	-0.6	-0.62	1	1	0	600	600	0
3/9/2025 21:17	63501	HEID_TBK1-2	33	35	2	0.44	0.62	0.18	-0.65	-0.63	1	1	0	900	900	0
3/9/2025 21:17	40702	FFLD_T1	0	0	0	0	0	0	-2.16	-2.1	1	1	0	1200	1200	0
3/9/2025 21:17	60102	COLA_T1	0	0	0	0	0	0	-1.35	-1.35	2	2	0	1200	1200	0
3/9/2025 21:17	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:17	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:17	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:17	46004	BERW_T2	1	1	0	0.6	0	-0.6	0	0	0	0	0	0	0	0
3/9/2025 21:17	40501	CRES_T2	8	8	0	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
3/9/2025 21:17	66502	SMAN_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
3/9/2025 21:17	67201	TEHI_T1	0	0	0	0	0	0	0.1	0.06	0	0	0	0	0	0
3/9/2025 21:17	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/9/2025 21:17	64101	REFR_T1	0	0	0	0	0	0	-0.34	-0.4	0	0	0	0	0	0
3/9/2025 21:17	46005	BERW_T1	11	0	-11	0.65	0	-0.65	0	0	0	0	0	0	0	0
3/9/2025 21:17	23401	HONE_T2	0	0	0	0	0	0	-0.81	-0.83	0	0	0	0	0	0
3/9/2025 21:17	65804	RTWN_T1	0	0	0	0	0	0	-0.11	-0.12	1	1	0	600	600	0
3/9/2025 21:17	46001	BERW_T1	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
3/9/2025 21:17	20403	ASHF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:17	44902	SCOT_T2	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
3/9/2025 21:17	64204	KINZ_T1	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
3/9/2025 21:17	40505	CRES_T1	0	0	0	0	0	0	1.11	1.14	0	0	0	0	0	0
3/9/2025 21:17	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:17	67605	WARW_T1	0	0	0	0	0	0	-1.76	-1.78	0	0	0	0	0	0
3/9/2025 21:17	67203	TEHI_T1	0	0	0	0	0	0	0.92	0.96	0	0	0	0	0	0
3/9/2025 21:18	52502	PROG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/9/2025 21:18	46004	BERW_T2	1	1	0	0.6	0	-0.6	-0.82	-0.85	0	0	0	0	0	0
3/9/2025 21:18	53903	HALI_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/9/2025 21:18	64204	KINZ_T1	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
3/9/2025 21:18	52402	GRPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:18	60103	COCA_T2	0	0	0	0	0	0	-1.08	-1.01	0	0	0	0	0	0
3/9/2025 21:18	52001	LING_T1	0	0	0	0	0	0	-1.08	-1.08	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/9/2025 21:18	64202	KINZ_T1	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
3/9/2025 21:18	58401	MORO_T1	0	0	0	0	0	0	-1.28	-1.26	1	1	0	600	600	0
3/9/2025 21:18	44502	HAMI_T2	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0	0
3/9/2025 21:18	54505	ENOL_T2	1	1	0	0.1	0.2	0.1	-1.3	-1.3	2	2	0	1200	1200	0
3/9/2025 21:18	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:18	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:18	64201	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/9/2025 21:18	66505	SMAN_T2	3	3	0	0.6	0.67	0.07	0	0	0	0	0	0	0	0
3/9/2025 21:18	60101	COCA_T1	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
3/9/2025 21:18	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:18	64203	KINZ_T1	0	0	0	0	0	0	-0.56	-0.52	1	1	0	600	600	0
3/9/2025 21:18	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	-0.34	-0.36	0	0	0	0	0	0
3/9/2025 21:18	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
3/9/2025 21:18	46803	HEPB_T2	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
3/9/2025 21:18	54504	ENOL_T2	0	0	0	0	0	0	-1.08	-1.08	1	1	0	600	600	0
3/9/2025 21:18	14102	TRUM_T2	1	1	0	3.8	3.9	0.1	0.37	0.35	1	1	0	600	600	0
3/9/2025 21:18	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0.73	0.74	0	0	0	0	0	0
3/9/2025 21:18	44801	EDAN_T2	0	0	0	0	0	0	-0.45	-0.51	0	0	0	0	0	0
3/9/2025 21:18	60701	BREC_T1	1	0	-1	0.2	0	-0.2	-0.6	-0.62	1	1	0	600	600	0
3/9/2025 21:18	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:18	24702	FLND_T2	0	0	0	0	0	0	-0.69	-0.6	1	1	0	1200	1200	0
3/9/2025 21:18	44505	HAMI_T2	0	0	0	0	0	0	0.23	0.25	0	0	0	0	0	0
3/9/2025 21:18	54902	SCOT_T2	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
3/9/2025 21:18	61303	EARL_T1	0	0	0	0	0	0	-0.2	-0.08	0	0	0	0	0	0
3/9/2025 21:18	46801	HEPB_T2	2	2	0	0.45	0.75	0.3	0.6	0.5	0	0	0	0	0	0
3/9/2025 21:18	10801	CHHI_T1	0	0	0	0	0	0	-6.69	-6.66	9	9	0	6300	6300	0
3/9/2025 21:18	12602	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:18	41002	LAUR_T2	1	1	0	2	2	0	0	0	0	0	0	0	0	0
3/9/2025 21:18	45501	DERR_T2	0	0	0	0	0	0	-1.78	-1.69	4	4	0	3600	3600	0
3/9/2025 21:18	54203	PENN_T1	18	18	0	0.83	0.96	0.13	0	0	0	0	0	0	0	0
3/9/2025 21:18	60104	COCA_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
3/9/2025 21:18	46203	DANV_T2	58	117	59	0.37	0.53	0.16	-2.32	-2.32	0	0	0	0	0	0
3/9/2025 21:18	14103	TRUM_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/9/2025 21:18	53901	HALI_T2	0	0	0	0	0	0	-0.99	-1	0	0	0	0	0	0
3/9/2025 21:18	40601	PIGR_T1	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
3/9/2025 21:18	60201	ATGL_T2	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
3/9/2025 21:18	53902	HALI_T2	1	1	0	4.9	5	0.1	0	0	0	0	0	0	0	0
3/9/2025 21:18	54201	PENN_T1	14	15	1	0.64	0.65	0.01	-1.34	-1.32	0	0	0	0	0	0
3/9/2025 21:18	67001	STHI_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/9/2025 21:18	67402	WAKE_T2	0	0	0	0	0	0	-0.46	-0.42	1	1	0	600	600	0
3/9/2025 21:19	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:19	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:19	52101	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:19	40101	HUNT_T2	0	0	0	0	0	0	-1.43	-1.45	0	0	0	0	0	0
3/9/2025 21:19	58102	NEKI_T1	1	1	0	1	1	0	-1.38	-1.35	1	1	0	1200	1200	0
3/9/2025 21:19	44502	HAMI_T2	1	1	0	3.3	3.3	0	0	0	0	0	0	0	0	0
3/9/2025 21:19	57201	ROSS_T1	0	0	0	0	0	0	-0.82	-0.91	0	0	0	0	0	0
3/9/2025 21:19	20601	GRWO_T2	0	0	0	0	0	0	-0.31	-0.26	0	0	0	0	0	0
3/9/2025 21:19	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:19	54505	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/9/2025 21:19	57205	ROSS_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	900	900	0
3/9/2025 21:19	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:19	46203	DANV_T2	58	117	59	0.37	0.53	0.16	-4.64	-4.64	0	0	0	0	0	0
3/9/2025 21:19	45501	DERR_T2	0	0	0	0	0	0	-0.89	-0.84	2	2	0	1800	1800	0
3/9/2025 21:19	60701	BREC_T1	1	0	-1	0.2	0	-0.2	-1.8	-1.87	3	3	0	1800	1800	0
3/9/2025 21:20	64101	REFR_T1	0	0	0	0	0	0	-0.17	-0.2	0	0	0	0	0	0
3/9/2025 21:20	13303	ORVI_T1	0	0	0	0	0	0	0.46	0.48	0	0	0	0	0	0
3/9/2025 21:20	53901	HALI_T2	0	0	0	0	0	0	-1.98	-2	0	0	0	0	0	0
3/9/2025 21:20	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/9/2025 21:20	46901	MNTG_T2	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
3/9/2025 21:20	52402	GRPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:20	63801	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:20	53903	HALI_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/9/2025 21:20	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
3/9/2025 21:20	65802	RTWN_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
3/9/2025 21:20	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:20	52401	GRPA_T2	0	0	0	0	0	0	-1.1	-1	0	0	0	0	0	0
3/9/2025 21:20	53902	HALI_T2	1	1	0	4.9	5	0.1	0	0	0	0	0	0	0	0
3/9/2025 21:20	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:20	58401	MORO_T1	0	0	0	0	0	0	-2.56	-2.52	2	2	0	1200	1200	0
3/9/2025 21:20	51904	COPA_T1	5	5	0	0.38	0.38	0	-1.08	-1.08	2	2	0	1200	1200	0
3/9/2025 21:20	12401	MILF_T1	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
3/9/2025 21:20	12402	MILF_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/9/2025 21:20	67402	WAKE_T2	0	0	0	0	0	0	-0.46	-0.42	1	1	0	600	600	0
3/9/2025 21:21	58401	MORO_T1	0	0	0	0	0	0	-1.28	-1.26	1	1	0	600	600	0
3/9/2025 21:21	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:21	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
3/9/2025 21:21	67901	WNHO_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
3/9/2025 21:21	66505	SMAN_T2	3	3	0	0.6	0.67	0.07	0	0	0	0	0	0	0	0
3/9/2025 21:21	60801	BUCK_T1	0	0	0	0	0	0	-0.93	-0.97	1	1	0	600	600	0
3/9/2025 21:21	61303	EARL_T1	0	0	0	0	0	0	-0.04	0.04	0	0	0	0	0	0
3/9/2025 21:21	64101	REFR_T1	0	0	0	0	0	0	-0.6	-0.54	0	0	0	0	0	0
3/9/2025 21:21	45501	DERR_T2	0	0	0	0	0	0	-0.84	-0.94	2	2	0	1800	1800	0
3/9/2025 21:21	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:21	54505	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/9/2025 21:21	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:21	61304	EARL_T1	0	0	0	0	0	0	-0.38	-0.43	0	0	0	0	0	0
3/9/2025 21:21	63801	HEMP_T1	0	0	0	0	0	0	0.07	-0.43	0	0	0	0	0	0
3/9/2025 21:21	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:21	60701	BREC_T1	1	0	-1	0.2	0	-0.2	-0.62	-0.61	1	1	0	600	600	0
3/9/2025 21:21	54501	ENOL_T2	0	0	0	0	0	0	-1.12	-1.08	1	1	0	600	600	0
3/9/2025 21:22	66505	SMAN_T2	3	3	0	0.6	0.67	0.07	0	0	0	0	0	0	0	0
3/9/2025 21:22	52501	PROG_T1	0	0	0	0	0	0	0.38	0.42	1	1	0	300	300	0
3/9/2025 21:22	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
3/9/2025 21:22	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:22	52401	GRPA_T2	0	0	0	0	0	0	-1	-1.04	0	0	0	0	0	0
3/9/2025 21:22	46203	DANV_T2	58	117	59	0.37	0.53	0.16	-2.32	-2.33	0	0	0	0	0	0
3/9/2025 21:22	67502	WEWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:22	63802	HEMP_T1	0	0	0	0	0	0	0.1	0.11	0	0	0	0	0	0
3/9/2025 21:22	46005	BERW_T1	11	0	-11	0.65	0	-0.65	0	0	0	0	0	0	0	0
3/9/2025 21:22	46001	BERW_T1	0	0	0	0	0	0	0.58	0.55	0	0	0	0	0	0
3/9/2025 21:22	42701	AUGU_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/9/2025 21:22	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
3/9/2025 21:22	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/9/2025 21:22	67605	WARW_T1	0	0	0	0	0	0	-0.89	-0.95	0	0	0	0	0	0
3/9/2025 21:22	63501	HEID_TBK1-2	33	35	2	0.44	0.62	0.18	-0.63	-0.68	1	1	0	900	900	0
3/9/2025 21:22	46004	BERW_T2	1	1	0	0.6	0	-0.6	-0.85	-0.89	0	0	0	0	0	0
3/9/2025 21:22	66504	SMAN_T2	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
3/9/2025 21:23	67901	WNHO_T2	0	0	0	0	0	0	-0.23	-0.25	0	0	0	0	0	0
3/9/2025 21:23	61304	EARL_T1	0	0	0	0	0	0	-0.76	-0.86	0	0	0	0	0	0
3/9/2025 21:23	64101	REFR_T1	0	0	0	0	0	0	-0.4	-0.36	0	0	0	0	0	0
3/9/2025 21:23	60201	ATGL_T2	0	0	0	0	0	0	-0.54	-0.47	0	0	0	0	0	0
3/9/2025 21:23	64201	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/9/2025 21:23	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.28	1	1	0	600	600	0
3/9/2025 21:23	46203	DANV_T2	58	117	59	0.37	0.53	0.16	-2.32	-2.33	0	0	0	0	0	0
3/9/2025 21:23	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:23	54503	ENOL_T2	0	0	0	0	0	0	-1.11	-1.11	1	1	0	600	600	0
3/9/2025 21:23	63501	HEID_TBK1-2	33	35	2	0.44	0.62	0.18	-0.63	-0.68	1	1	0	900	900	0
3/9/2025 21:23	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:23	67605	WARW_T1	0	0	0	0	0	0	-0.89	-0.95	0	0	0	0	0	0
3/9/2025 21:23	52402	GRPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:23	57205	ROSS_T1	0	0	0	0	0	0	-0.97	-0.97	1	1	0	900	900	0
3/9/2025 21:23	64203	KINZ_T1	0	0	0	0	0	0	-0.52	-0.54	1	1	0	600	600	0
3/9/2025 21:23	45501	DERR_T2	0	0	0	0	0	0	-0.84	-0.94	2	2	0	1800	1800	0
3/9/2025 21:23	46901	MNTG_T2	0	0	0	0	0	0	-0.07	-0.05	0	0	0	0	0	0
3/9/2025 21:23	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:23	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/9/2025 21:23	40505	CRES_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
3/9/2025 21:23	44801	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:23	46801	HEPB_T2	2	2	0	0.45	0.75	0.3	0	0	0	0	0	0	0	0
3/9/2025 21:23	64204	KINZ_T1	1	1	0	1	1.4	0.4	0	0	0	0	0	0	0	0
3/9/2025 21:23	42601	TUSC_T1	3	1	-2	0.2	0	-0.2	-0.64	-0.68	1	1	0	1200	1200	0
3/9/2025 21:23	52403	GRPA_T2	0	0	0	0	0	0	-1.25	-1.29	0	0	0	0	0	0
3/9/2025 21:23	60104	COCA_T2	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
3/9/2025 21:23	54505	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/9/2025 21:24	66505	SMAN_T2	3	3	0	0.6	0.67	0.07	0	0	0	0	0	0	0	0
3/9/2025 21:24	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.28	1	1	0	600	600	0
3/9/2025 21:24	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:24	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:24	67402	WAKE_T2	0	0	0	0	0	0	-0.42	-0.47	1	1	0	600	600	0
3/9/2025 21:24	61301	EARL_T1	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
3/9/2025 21:25	53903	HALI_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/9/2025 21:25	53902	HALI_T2	1	1	0	4.9	5	0.1	-0.95	-0.97	0	0	0	0	0	0
3/9/2025 21:25	44905	SCOT_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2025 21:26	16302	ALPA_T2	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
3/9/2025 21:27	45501	DERR_T2	0	0	0	0	0	0	-0.84	-0.94	2	2	0	1800	1800	0
3/9/2025 21:27	55105	WERT_T1	0	0	0	0	0	0	-0.74	-0.71	1	1	0	900	900	0
3/9/2025 21:28	45501	DERR_T2	0	0	0	0	0	0	-0.84	-0.94	2	2	0	1800	1800	0
3/9/2025 21:28	53903	HALI_T2	2	2	0	0.7	0.8	0.1	-0.16	-0.14	0	0	0	0	0	0
3/9/2025 21:28	53902	HALI_T2	1	1	0	4.9	5	0.1	0	0	0	0	0	0	0	0
3/9/2025 21:29	65503	MOJO_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
3/9/2025 21:29	52404	GRPA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/9/2025 21:29	52403	GRPA_T2	0	0	0	0	0	0	-1.25	-1.29	0	0	0	0	0	0
3/9/2025 21:36	60101	COCA_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
3/9/2025 22:16	65303	NBRI_T2	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
3/9/2025 22:17	60101	COCA_T1	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
3/9/2025 22:20	67805	WLAN_T1	0	0	0	0	0	0	-1.7	-1.72	0	0	0	0	0	0
3/9/2025 22:59	47203	FAXO_T2	0	0	0	0	0	0	-1.81	-1.8	1	1	0	1200	1200	0
3/10/2025 0:45	66901	SHIL_T2	0	0	0	0	0	0	-2.02	-2.03	1	1	0	1200	1200	0
3/10/2025 1:47	60701	BREC_T1	0	0	0	0	0	0	-0.59	-0.6	1	1	0	600	600	0
3/10/2025 7:58	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 7:58	53501	EVIL_T2	1	3	2	0.3	0.3	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/10/2025 8:09	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 8:09	67001	STHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/10/2025 8:13	63804	HEMP_T1	1	1	0	6.3	6	-0.3	0.78	0.79	0	0	0	0	0	0
3/10/2025 8:24	40301	TAMA_T3	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 8:24	67002	STHI_T2	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
3/10/2025 8:24	67001	STHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/10/2025 8:24	40302	TAMA_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 8:25	46206	DANV_T2	11	2	-9	0.48	0.3	-0.18	2.21	1.87	1	1	0	1200	1200	0
3/10/2025 8:25	46204	DANV_T2	9	3	-6	0.37	0	-0.37	0	0	0	0	0	0	0	0
3/10/2025 8:25	46203	DANV_T2	10	30	20	0.24	0.24	0	0	0	0	0	0	0	0	0
3/10/2025 8:26	46206	DANV_T2	11	2	-9	0.48	0.3	-0.18	2.21	1.87	1	1	0	1200	1200	0
3/10/2025 8:26	46203	DANV_T2	10	30	20	0.24	0.24	0	-2.22	-2.27	0	0	0	0	0	0
3/10/2025 8:26	46204	DANV_T2	9	3	-6	0.37	0	-0.37	0	0	0	0	0	0	0	0
3/10/2025 8:27	46203	DANV_T2	10	30	20	0.24	0.24	0	0	0	0	0	0	0	0	0
3/10/2025 8:27	46206	DANV_T2	11	2	-9	0.48	0.3	-0.18	2.21	1.87	1	1	0	1200	1200	0
3/10/2025 8:27	46204	DANV_T2	9	3	-6	0.37	0	-0.37	0	0	0	0	0	0	0	0
3/10/2025 8:28	22002	BOHE_T1	0	0	0	0	0	0	0.26	0.28	0	0	0	0	0	0
3/10/2025 8:28	22003	BOHE_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
3/10/2025 8:29	46204	DANV_T2	9	3	-6	0.37	0	-0.37	0	0	0	0	0	0	0	0
3/10/2025 8:29	46203	DANV_T2	10	30	20	0.24	0.24	0	-2.22	-2.27	0	0	0	0	0	0
3/10/2025 8:29	46206	DANV_T2	11	2	-9	0.48	0.3	-0.18	0	0	0	0	0	0	0	0
3/10/2025 8:41	45502	DERR_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/10/2025 8:41	53502	EVIL_T2	1	1	0	1.5	0.5	-1	0	0	0	0	0	0	0	0
3/10/2025 8:41	45501	DERR_T2	0	0	0	0	0	0	0.49	0.58	2	2	0	1800	1800	0
3/10/2025 8:41	53501	EVIL_T2	2	3	1	0.15	0.8	0.65	0	0	0	0	0	0	0	0
3/10/2025 8:45	47901	HRDG_T1	0	0	0	0	0	0	0.56	0.34	1	1	0	1200	1200	0
3/10/2025 8:46	53501	EVIL_T2	3	2	-1	0.5	1.15	0.65	-0.86	-0.95	2	2	0	1200	1200	0
3/10/2025 8:46	53502	EVIL_T2	1	0	-1	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/10/2025 8:50	67002	STHI_T2	0	1	1	0	0.2	0.2	0.54	0.53	0	0	0	0	0	0
3/10/2025 8:50	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 8:50	67001	STHI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/10/2025 8:51	67106	SPRI_T2	0	0	0	0	0	0	-3.88	-3.9	2	2	0	1800	1800	0
3/10/2025 8:51	67002	STHI_T2	0	1	1	0	0.2	0.2	1.06	1.12	0	0	0	0	0	0
3/10/2025 8:51	67001	STHI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/10/2025 8:52	67106	SPRI_T2	0	0	0	0	0	0	-1.94	-1.95	1	1	0	900	900	0
3/10/2025 8:52	24902	WHHA_T1	15	11	-4	0.87	0.92	0.05	0.86	0.85	0	0	0	0	0	0
3/10/2025 8:53	67001	STHI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/10/2025 8:53	67002	STHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 8:54	45501	DERR_T2	0	1	1	0	0	0	0.58	0.39	2	2	0	1800	1800	0
3/10/2025 8:54	67002	STHI_T2	0	1	1	0	0.2	0.2	0.53	0.56	0	0	0	0	0	0
3/10/2025 8:54	67001	STHI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/10/2025 8:54	45502	DERR_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
3/10/2025 8:56	21203	ECAR_T1	0	0	0	0	0	0	-0.25	-0.29	0	0	0	0	0	0
3/10/2025 8:56	21201	ECAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 9:01	52403	GRPA_T2	16	7	-9	0.22	0.31	0.09	-1.03	-1.05	0	0	0	0	0	0
3/10/2025 9:05	53803	MBRG_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
3/10/2025 9:20	15203	SFAR_T2	2	4	2	0.2	0.43	0.23	-1.43	-1.44	0	0	0	0	0	0
3/10/2025 9:22	15203	SFAR_T2	2	4	2	0.2	0.43	0.23	-1.44	-1.41	0	0	0	0	0	0
3/10/2025 9:28	63501	HEID_TBK1-2	0	0	0	0	0	0	0.15	0.16	1	1	0	900	900	0
3/10/2025 9:29	63501	HEID_TBK1-2	0	0	0	0	0	0	0.15	0.16	1	1	0	900	900	0
3/10/2025 9:31	63501	HEID_TBK1-2	0	0	0	0	0	0	0.15	0.16	1	1	0	900	900	0
3/10/2025 9:32	63501	HEID_TBK1-2	0	0	0	0	0	0	0.15	0.16	1	1	0	900	900	0
3/10/2025 9:36	58402	MORO_T1	0	0	0	0	0	0	-0.94	-0.94	3	3	0	2400	2400	0
3/10/2025 9:38	14603	SWHI_T1	0	0	0	0	0	0	-1.03	-1.01	1	1	0	600	600	0
3/10/2025 9:40	14603	SWHI_T1	0	0	0	0	0	0	-1.03	-1.01	1	1	0	600	600	0
3/10/2025 9:41	40501	CRES_T2	7	12	5	0.27	0.31	0.04	0	0	0	0	0	0	0	0
3/10/2025 9:44	10903	COOP_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/10/2025 9:45	61802	EELI_T2	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
3/10/2025 9:45	61801	EELI_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
3/10/2025 9:46	14603	SWHI_T1	0	0	0	0	0	0	-1.03	-1.01	1	1	0	600	600	0
3/10/2025 9:49	64101	REFR_T1	0	3	3	0	0.43	0.43	-0.3	-0.28	0	0	0	0	0	0
3/10/2025 9:50	64101	REFR_T1	0	3	3	0	0.43	0.43	-0.3	-0.28	0	0	0	0	0	0
3/10/2025 9:51	64101	REFR_T1	0	3	3	0	0.43	0.43	-0.14	-0.14	0	0	0	0	0	0
3/10/2025 9:52	52502	PROG_T2	1	1	0	0.1	0.4	0.3	-0.67	-0.65	1	1	0	900	900	0
3/10/2025 9:52	64101	REFR_T1	0	3	3	0	0.43	0.43	-0.28	-0.28	0	0	0	0	0	0
3/10/2025 9:53	64101	REFR_T1	0	3	3	0	0.43	0.43	-0.14	-0.14	0	0	0	0	0	0
3/10/2025 9:53	52502	PROG_T2	1	1	0	0.1	0.4	0.3	-1.33	-1.3	2	2	0	1800	1800	0
3/10/2025 9:54	52502	PROG_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/10/2025 9:54	64101	REFR_T1	0	3	3	0	0.43	0.43	-0.14	-0.14	0	0	0	0	0	0
3/10/2025 9:56	10801	CHHI_T1	4	0	-4	0.25	0	-0.25	-1.53	-1.54	2	2	0	1500	1500	0
3/10/2025 10:00	63804	HEMP_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
3/10/2025 10:00	61306	EARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/10/2025 10:00	53903	HALI_T2	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
3/10/2025 10:00	61302	EARL_T1	0	0	0	0	0	0	0.56	0.67	2	2	0	1800	1800	0
3/10/2025 10:00	67503	WEWI_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
3/10/2025 10:00	45501	DERR_T2	0	0	0	0	0	0	0.27	0.25	2	2	0	1800	1800	0
3/10/2025 10:00	40505	CRES_T1	0	0	0	0	0	0	0.54	0.52	0	0	0	0	0	0
3/10/2025 10:00	13302	ORVI_T2	0	2	2	0	0.25	0.25	1.18	1.19	0	0	0	0	0	0
3/10/2025 10:00	65701	RVIL_T1	0	0	0	0	0	0	-1.21	-1.22	0	0	0	0	0	0
3/10/2025 10:00	67502	WEWI_T2	2	5	3	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/10/2025 10:00	63801	HEMP_T1	0	1	1	0	0.1	0.1	0.79	0.72	0	0	0	0	0	0
3/10/2025 10:00	53902	HALI_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
3/10/2025 10:00	40504	CRES_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 10:00	53901	HALI_T2	1	1	0	0.1	0.2	0.1	-1.02	-1	0	0	0	0	0	0
3/10/2025 10:00	63802	HEMP_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/10/2025 10:00	63803	HEMP_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/10/2025 10:00	61301	EARL_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 10:00	61304	EARL_T1	14	34	20	0.15	0.17	0.02	0	0	0	0	0	0	0	0
3/10/2025 10:07	63803	HEMP_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/10/2025 10:07	63804	HEMP_T1	1	1	0	6.1	6.1	0	0	0	0	0	0	0	0	0
3/10/2025 10:07	63802	HEMP_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/10/2025 10:07	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 10:08	45501	DERR_T2	0	0	0	0	0	0	0.25	0.35	2	2	0	1800	1800	0
3/10/2025 10:08	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 10:09	60803	BUCK_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/10/2025 10:09	60801	BUCK_T1	0	0	0	0	0	0	0.11	-0.02	0	0	0	0	0	0
3/10/2025 10:10	60803	BUCK_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/10/2025 10:10	10805	CHHI_T2	1	1	0	7.6	7.8	0.2	-1.63	-1.55	1	1	0	1200	1200	0
3/10/2025 10:10	60801	BUCK_T1	0	0	0	0	0	0	0.11	-0.02	0	0	0	0	0	0
3/10/2025 10:10	45501	DERR_T2	0	0	0	0	0	0	0.25	0.35	2	2	0	1800	1800	0
3/10/2025 10:11	28102	TWLA_T2	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
3/10/2025 10:11	60803	BUCK_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/10/2025 10:11	60801	BUCK_T1	0	0	0	0	0	0	0.11	-0.02	0	0	0	0	0	0
3/10/2025 10:12	46801	HEPB_T2	3	3	0	0.67	0.83	0.16	0.61	0.61	0	0	0	0	0	0
3/10/2025 10:12	46803	HEPB_T2	2	3	1	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
3/10/2025 10:12	10801	CHHI_T1	0	0	0	0	0	0	-1.54	-1.45	2	2	0	1500	1500	0
3/10/2025 10:13	63501	HEID_TBK1-2	0	1	1	0	0.2	0.2	0.13	0.16	1	1	0	900	900	0
3/10/2025 10:13	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 10:13	21206	ECAR_T2	1	1	0	7.8	7.5	-0.3	0.22	0.21	0	0	0	0	0	0
3/10/2025 10:13	47901	HRDG_T1	0	0	0	0	0	0	0.69	0.71	1	1	0	1200	1200	0
3/10/2025 10:14	21203	ECAR_T1	0	1	1	0	0	0	-0.31	-0.2	0	0	0	0	0	0
3/10/2025 10:14	52403	GRPA_T2	4	9	5	0.23	0.43	0.2	-0.53	-0.56	0	0	0	0	0	0
3/10/2025 10:14	67805	WLAN_T1	0	0	0	0	0	0	-1.06	-1.05	0	0	0	0	0	0
3/10/2025 10:14	52402	GRPA_T2	1	5	4	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/10/2025 10:15	52402	GRPA_T2	2	5	3	0.2	0.46	0.26	0	0	0	0	0	0	0	0
3/10/2025 10:15	46801	HEPB_T2	3	8	5	0.57	0.46	-0.11	0	0	0	0	0	0	0	0
3/10/2025 10:15	52403	GRPA_T2	6	20	14	0.47	0.38	-0.09	-0.53	-0.56	0	0	0	0	0	0
3/10/2025 10:15	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 10:15	46803	HEPB_T2	3	5	2	0.17	0.38	0.21	0.29	0.29	0	0	0	0	0	0
3/10/2025 10:15	21206	ECAR_T2	1	1	0	7.5	7.7	0.2	0.22	0.21	0	0	0	0	0	0
3/10/2025 10:15	63501	HEID_TBK1-2	0	1	1	0	0.2	0.2	0.13	0.16	1	1	0	900	900	0
3/10/2025 10:16	47203	FAXO_T2	0	0	0	0	0	0	-1.75	-1.79	1	1	0	1200	1200	0
3/10/2025 10:17	46801	HEPB_T2	3	8	5	0.57	0.46	-0.11	0	0	0	0	0	0	0	0
3/10/2025 10:17	46803	HEPB_T2	3	5	2	0.17	0.38	0.21	0.29	0.29	0	0	0	0	0	0
3/10/2025 10:20	53502	EVIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/10/2025 10:20	53501	EVIL_T2	2	4	2	0.9	0.67	-0.23	-0.78	-0.83	2	2	0	1200	1200	0
3/10/2025 10:20	15203	SFAR_T2	4	5	1	0.25	0.5	0.25	-1.39	-1.39	0	0	0	0	0	0
3/10/2025 10:22	15203	SFAR_T2	4	5	1	0.25	0.5	0.25	-1.39	-1.43	0	0	0	0	0	0
3/10/2025 10:22	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 10:22	67402	WAKE_T2	1	2	1	0.1	0.4	0.3	0.38	0.42	1	1	0	600	600	0
3/10/2025 10:23	67402	WAKE_T2	1	2	1	0.1	0.4	0.3	0.38	0.42	1	1	0	600	600	0
3/10/2025 10:23	24902	WHHA_T1	10	11	1	0.94	0.75	-0.19	0.82	0.81	0	0	0	0	0	0
3/10/2025 10:23	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 10:24	15203	SFAR_T2	4	5	1	0.25	0.5	0.25	-1.39	-1.43	0	0	0	0	0	0
3/10/2025 10:24	67502	WEWI_T2	2	11	9	0.6	0.36	-0.24	0	0	0	0	0	0	0	0
3/10/2025 10:25	67401	WAKE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 10:25	67402	WAKE_T2	1	2	1	0.1	0.4	0.3	0.38	0.42	1	1	0	600	600	0
3/10/2025 10:26	10801	CHHI_T1	0	0	0	0	0	0	-1.45	-1.53	2	2	0	1500	1500	0
3/10/2025 10:26	24902	WHHA_T1	10	11	1	0.94	0.75	-0.19	0.82	0.81	0	0	0	0	0	0
3/10/2025 10:30	17002	RIRO_T2	2	2	0	0.75	1.05	0.3	0	0	0	0	0	0	0	0
3/10/2025 10:33	48302	ORWI_T2	2	2	0	4.55	7.9	3.35	-0.71	-0.67	0	0	0	0	0	0
3/10/2025 10:33	42902	MIDD_T2	1	6	5	0.1	0.47	0.37	-0.24	-0.3	0	0	0	0	0	0
3/10/2025 10:33	42903	MIDD_T2	2	3	1	0.85	1.07	0.22	0	0	0	0	0	0	0	0
3/10/2025 10:34	52102	MEIS_T1	0	1	1	0	0.2	0.2	0	0	1	1	0	450	450	0
3/10/2025 10:34	42903	MIDD_T2	2	3	1	0.85	1.07	0.22	0	0	0	0	0	0	0	0
3/10/2025 10:34	52101	MEIS_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/10/2025 10:34	53502	EVIL_T2	1	1	0	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/10/2025 10:34	53501	EVIL_T2	2	4	2	0.9	0.95	0.05	0	0	0	0	0	0	0	0
3/10/2025 10:34	42902	MIDD_T2	1	6	5	0.1	0.47	0.37	0	0	0	0	0	0	0	0
3/10/2025 10:35	42903	MIDD_T2	2	3	1	0.85	1.07	0.22	0	0	0	0	0	0	0	0
3/10/2025 10:35	42902	MIDD_T2	1	6	5	0.1	0.47	0.37	-0.24	-0.3	0	0	0	0	0	0
3/10/2025 10:35	63202	MGTN_T2	1	1	0	2	0	-2	0.22	0.1	1	1	0	900	900	0
3/10/2025 10:36	24203	PROV_T4	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 10:36	43801	SWIL_T1	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
3/10/2025 10:36	24202	PROV_T4	0	0	0	0	0	0	-0.77	-0.81	1	1	0	1200	1200	0
3/10/2025 10:36	43802	SWIL_T1	0	0	0	0	0	0	-0.23	-0.24	1	1	0	600	600	0
3/10/2025 10:36	48302	ORWI_T2	2	2	0	4.55	7.9	3.35	-0.67	-0.08	0	0	0	0	0	0
3/10/2025 10:37	45501	DERR_T2	0	0	0	0	0	0	0.42	0.31	2	2	0	1800	1800	0
3/10/2025 10:39	40201	BEGA_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/10/2025 10:40	46203	DANV_T2	169	181	12	0.68	1.18	0.5	-2.38	-2.37	0	0	0	0	0	0
3/10/2025 10:41	61801	EELI_T2	3	7	4	0.5	0.41	-0.09	-1.03	-0.99	1	1	0	600	600	0
3/10/2025 10:41	46203	DANV_T2	169	181	12	0.68	1.18	0.5	-2.38	-2.37	0	0	0	0	0	0
3/10/2025 10:42	10903	COOP_T2	2	5	3	0.45	0.63	0.18	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/10/2025 10:43	46203	DANV_T2	169	181	12	0.68	1.18	0.5	-2.38	-2.37	0	0	0	0	0	0
3/10/2025 10:44	46203	DANV_T2	169	181	12	0.68	1.18	0.5	-2.38	-2.37	0	0	0	0	0	0
3/10/2025 10:45	17802	GILB_T1	1	2	1	1.5	1	-0.5	0.13	0.11	0	0	0	0	0	0
3/10/2025 10:46	22602	KIMB_T1	1	1	0	0.4	0.5	0.1	0.21	0.26	0	0	0	0	0	0
3/10/2025 10:46	22601	KIMB_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/10/2025 10:46	63601	LETO_T1	6	6	0	1	1.03	0.03	0.28	-0.01	2	2	0	1800	1800	0
3/10/2025 10:46	63602	LETO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 10:47	58401	MORO_T1	1	1	0	0.2	0.1	-0.1	-1.1	-1.14	1	1	0	600	600	0
3/10/2025 10:48	58401	MORO_T1	1	1	0	0.2	0.1	-0.1	-1.1	-1.14	1	1	0	600	600	0
3/10/2025 10:50	47401	PENS_T1	3	2	-1	0.93	1.15	0.22	0	0	0	0	0	0	0	0
3/10/2025 10:50	47402	PENS_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
3/10/2025 10:50	47403	PENS_T1	3	3	0	0.97	0.9	-0.07	0	0	0	0	0	0	0	0
3/10/2025 10:50	46801	HEPB_T2	8	3	-5	0.46	0.97	0.51	0	0	0	0	0	0	0	0
3/10/2025 10:50	46803	HEPB_T2	5	3	-2	0.38	0.43	0.05	0	0	0	0	0	0	0	0
3/10/2025 10:50	64101	REFR_T1	5	12	7	0.46	0.48	0.02	-0.13	-0.15	0	0	0	0	0	0
3/10/2025 10:51	64101	REFR_T1	5	12	7	0.46	0.48	0.02	-0.15	-0.15	0	0	0	0	0	0
3/10/2025 10:52	64101	REFR_T1	5	12	7	0.46	0.48	0.02	-0.15	-0.15	0	0	0	0	0	0
3/10/2025 10:52	67605	WARW_T1	4	16	12	0.38	0.4	0.02	-0.97	-1.14	0	0	0	0	0	0
3/10/2025 10:53	67605	WARW_T1	4	16	12	0.38	0.4	0.02	0	0	0	0	0	0	0	0
3/10/2025 10:54	67603	WARW_T1	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
3/10/2025 10:54	67605	WARW_T1	4	16	12	0.38	0.4	0.02	0	0	0	0	0	0	0	0
3/10/2025 10:56	54505	ENOL_T2	0	2	2	0	0.4	0.4	-0.65	-0.66	1	1	0	600	600	0
3/10/2025 10:56	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/10/2025 10:59	52402	GRPA_T2	2	7	5	0.75	0.6	-0.15	0	0	0	0	0	0	0	0
3/10/2025 10:59	52403	GRPA_T2	20	83	63	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
3/10/2025 10:59	52401	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 11:06	67605	WARW_T1	6	20	14	0.37	0.38	0.01	-1.14	-1.15	0	0	0	0	0	0
3/10/2025 11:06	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 11:07	52502	PROG_T2	1	1	0	0.6	0.4	-0.2	-0.65	0.26	0	0	0	0	0	0
3/10/2025 11:07	65901	SAKR_T2	1	2	1	9	4.65	-4.35	-1.2	-1.18	1	1	0	900	900	0
3/10/2025 11:08	52502	PROG_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/10/2025 11:09	67605	WARW_T1	6	20	14	0.37	0.38	0.01	-1.14	-1.15	0	0	0	0	0	0
3/10/2025 11:09	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 11:10	14603	SWHI_T1	4	2	-2	0.18	0.2	0.02	0	0	0	0	0	0	0	0
3/10/2025 11:10	14601	SWHI_T1	0	0	0	0	0	0	-0.89	-0.91	0	0	0	0	0	0
3/10/2025 11:19	65901	SAKR_T2	1	2	1	8.9	4.65	-4.25	-1.2	-1.18	1	1	0	900	900	0
3/10/2025 11:30	14601	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 11:30	14603	SWHI_T1	2	7	5	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/10/2025 11:33	23404	HONE_T1	115	104	-11	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
3/10/2025 11:33	23403	HONE_T1	229	180	-49	0.26	0.26	0	0	0	0	0	0	0	0	0
3/10/2025 11:33	63501	HEID_TBK1-2	1	7	6	0.5	0.5	0	0.3	0.19	2	2	0	1800	1800	0
3/10/2025 11:34	52403	GRPA_T2	61	111	50	0.36	0.53	0.17	-0.55	-0.6	0	0	0	0	0	0
3/10/2025 11:34	52401	GRPA_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
3/10/2025 11:34	52402	GRPA_T2	9	22	13	0.58	0.71	0.13	0	0	0	0	0	0	0	0
3/10/2025 11:36	64202	KINZ_T1	1	3	2	0.1	0.5	0.4	0	0	0	0	0	0	0	0
3/10/2025 11:36	64204	KINZ_T1	35	69	34	0.45	0.97	0.52	0	0	0	0	0	0	0	0
3/10/2025 11:36	64203	KINZ_T1	0	0	0	0	0	0	-0.08	-0.15	2	2	0	1800	1800	0
3/10/2025 11:37	45501	DERR_T2	0	1	1	0	0.2	0.2	0.44	0.5	2	2	0	1800	1800	0
3/10/2025 11:38	40201	BEGA_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/10/2025 11:39	54505	ENOL_T2	2	2	0	0.7	0.7	0	-1.39	-1.41	1	1	0	600	600	0
3/10/2025 11:39	54504	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/10/2025 11:39	54502	ENOL_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
3/10/2025 11:40	41002	LAUR_T2	42	43	1	0.34	0.42	0.08	-0.99	-1	0	0	0	0	0	0
3/10/2025 11:40	16102	BING_T2	11	10	-1	0.39	0.54	0.15	0	0	0	0	0	0	0	0
3/10/2025 11:40	41001	LAUR_T2	77	81	4	0.53	0.64	0.11	0	0	0	0	0	0	0	0
3/10/2025 11:40	16101	BING_T2	1	3	2	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/10/2025 11:40	13302	ORVI_T2	4	5	1	0.28	0.56	0.28	1.02	1.04	0	0	0	0	0	0
3/10/2025 11:40	16103	BING_T2	1	2	1	0.7	0.9	0.2	-0.55	-0.54	1	1	0	900	900	0
3/10/2025 11:40	63501	HEID_TBK1-2	1	7	6	0.5	0.5	0	0.09	0.14	1	1	0	900	900	0
3/10/2025 11:41	52403	GRPA_T2	61	111	50	0.36	0.53	0.17	-0.6	-0.61	0	0	0	0	0	0
3/10/2025 11:41	52401	GRPA_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
3/10/2025 11:41	63501	HEID_TBK1-2	1	7	6	0.5	0.5	0	0.09	0.14	1	1	0	900	900	0
3/10/2025 11:41	52402	GRPA_T2	9	22	13	0.58	0.71	0.13	0	0	0	0	0	0	0	0
3/10/2025 11:42	40602	PIGR_T1	2	3	1	0.15	0.37	0.22	0	0	0	0	0	0	0	0
3/10/2025 11:42	40603	PIGR_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 11:42	64101	REFR_T1	6	12	6	0.52	0.5	-0.02	-0.16	-0.14	0	0	0	0	0	0
3/10/2025 11:42	54505	ENOL_T2	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/10/2025 11:42	54504	ENOL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/10/2025 11:42	54501	ENOL_T2	0	0	0	0	0	0	-0.56	-0.59	1	1	0	600	600	0
3/10/2025 11:42	54502	ENOL_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
3/10/2025 11:42	40601	PIGR_T1	7	13	6	0.29	0.31	0.02	-0.54	-0.56	0	0	0	0	0	0
3/10/2025 11:43	45501	DERR_T2	0	1	1	0	0.2	0.2	0.44	0.5	2	2	0	1800	1800	0
3/10/2025 11:44	16103	BING_T2	1	2	1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
3/10/2025 11:44	16102	BING_T2	11	10	-1	0.39	0.54	0.15	0	0	0	0	0	0	0	0
3/10/2025 11:44	45501	DERR_T2	0	1	1	0	0.2	0.2	0.44	0.5	2	2	0	1800	1800	0
3/10/2025 11:44	67401	WAKE_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/10/2025 11:44	16101	BING_T2	1	3	2	0.2	0.6	0.4	0.24	0.26	0	0	0	0	0	0
3/10/2025 11:44	67402	WAKE_T2	4	3	-1	0.48	0.43	-0.05	0.37	0.36	1	1	0	600	600	0
3/10/2025 11:45	58101	NEKI_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/10/2025 11:45	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/10/2025 11:45	54504	ENOL_T2	1	1	0	0.4	0.8	0.4	-1.15	-1.16	1	1	0	600	600	0
3/10/2025 11:45	58102	NEKI_T1	1	2	1	0.7	0.5	-0.2	-1.06	-1.02	1	1	0	1200	1200	0
3/10/2025 11:45	54505	ENOL_T2	2	2	0	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
3/10/2025 11:46	26402	INOR_T1	2	6	4	0.6	0.72	0.12	-0.94	-0.91	1	1	0	600	600	0
3/10/2025 11:46	46801	HEPB_T2	3	8	5	0.9	0.56	-0.34	0.6	0.55	0	0	0	0	0	0
3/10/2025 11:46	46803	HEPB_T2	3	8	5	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
3/10/2025 11:46	26401	INOR_T1	5	5	0	3.26	3.68	0.42	0	0	0	0	0	0	0	0
3/10/2025 11:47	58402	MORO_T1	1	0	-1	0.1	0	-0.1	-1.05	-0.14	3	2	-1	2400	1500	-900
3/10/2025 11:47	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 11:47	60501	NMAN_T2	4	5	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/10/2025 11:47	60504	NMAN_T2	1	3	2	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/10/2025 11:49	60504	NMAN_T2	1	3	2	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/10/2025 11:49	60502	NMAN_T2	0	0	0	0	0	0	-0.39	-0.35	0	0	0	0	0	0
3/10/2025 11:49	60501	NMAN_T2	4	5	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/10/2025 11:50	66504	SMAN_T2	3	4	1	0.57	0.7	0.13	-0.56	-0.55	0	0	0	0	0	0
3/10/2025 11:50	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 11:50	66502	SMAN_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
3/10/2025 11:50	66501	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 11:51	66502	SMAN_T2	1	2	1	0.4	0.35	-0.05	0.2	0.2	0	0	0	0	0	0
3/10/2025 11:51	66501	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 11:51	66504	SMAN_T2	3	4	1	0.57	0.7	0.13	-0.55	-0.61	0	0	0	0	0	0
3/10/2025 11:51	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 11:52	66503	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 11:52	66502	SMAN_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
3/10/2025 11:52	66501	SMAN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 11:52	66504	SMAN_T2	3	4	1	0.57	0.7	0.13	-1.1	-1.22	0	0	0	0	0	0
3/10/2025 11:56	10801	OHII_T1	3	6	3	0.17	0.55	0.38	-1.62	-1.58	2	2	0	1500	1500	0
3/10/2025 11:58	41602	CLEV_T1	3	4	1	0.8	0.68	-0.12	0	0	1	1	0	600	600	0
3/10/2025 11:58	41601	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/10/2025 11:59	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 11:59	40901	JESH_T1	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/10/2025 12:01	61303	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 12:01	61302	EARL_T1	2	4	2	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
3/10/2025 12:01	61306	EARL_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/10/2025 12:01	46802	HEPB_T1	1	1	0	0.5	0.6	0.1	-0.42	-0.42	0	0	0	0	0	0
3/10/2025 12:01	61304	EARL_T1	2	7	5	0.5	0.33	-0.17	-0.03	-0.25	0	0	0	0	0	0
3/10/2025 12:02	61304	EARL_T1	2	7	5	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
3/10/2025 12:02	61302	EARL_T1	2	4	2	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
3/10/2025 12:02	61303	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 12:02	61306	EARL_T1	0	2	2	0	0.15	0.15	0.08	0.08	0	0	0	0	0	0
3/10/2025 12:03	46803	HEPB_T2	4	8	4	0.45	0.36	-0.09	0	0	0	0	0	0	0	0
3/10/2025 12:03	46801	HEPB_T2	4	16	12	0.85	0.34	-0.51	0.55	0.52	0	0	0	0	0	0
3/10/2025 12:04	61303	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 12:04	52401	GRPA_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
3/10/2025 12:04	61306	EARL_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/10/2025 12:04	46801	HEPB_T2	4	16	12	0.85	0.34	-0.51	0	0	0	0	0	0	0	0
3/10/2025 12:04	52403	GRPA_T2	109	32	-77	0.54	0.53	-0.01	0	0	0	0	0	0	0	0
3/10/2025 12:04	13303	ORVI_T1	2	0	-2	0.1	0	-0.1	0.86	0.88	0	0	0	0	0	0
3/10/2025 12:04	61301	EARL_T1	0	0	0	0	0	0	-0.41	0.27	1	0	-1	900	0	-900
3/10/2025 12:04	61304	EARL_T1	2	7	5	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
3/10/2025 12:04	52402	GRPA_T2	22	51	29	0.64	0.46	-0.18	0	0	0	0	0	0	0	0
3/10/2025 12:04	46803	HEPB_T2	4	8	4	0.45	0.36	-0.09	0	0	0	0	0	0	0	0
3/10/2025 12:04	61302	EARL_T1	2	4	2	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
3/10/2025 12:05	61301	EARL_T1	0	0	0	0	0	0	-0.41	0.27	1	0	-1	900	0	-900
3/10/2025 12:05	61306	EARL_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/10/2025 12:05	60503	MOJO_T2	0	2	2	0	0.1	0.1	-0.85	-0.95	1	1	0	900	900	0
3/10/2025 12:05	61302	EARL_T1	2	4	2	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
3/10/2025 12:05	61303	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 12:05	61304	EARL_T1	2	7	5	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
3/10/2025 12:06	13302	ORVI_T2	5	5	0	0.56	0.82	0.26	1.04	1.1	0	0	0	0	0	0
3/10/2025 12:08	40201	BEGA_T2	0	4	4	0	0.43	0.43	0	0	0	0	0	0	0	0
3/10/2025 12:09	46001	BERW_T1	0	0	0	0	0	0	0.78	0.75	0	0	0	0	0	0
3/10/2025 12:09	46005	BERW_T1	2	3	1	0.6	0.67	0.07	0	0	0	0	0	0	0	0
3/10/2025 12:10	42601	TUSC_T1	0	9	9	0	0	0	-0.84	0.07	3	3	0	2400	2400	0
3/10/2025 12:10	13302	ORVI_T2	5	5	0	0.56	0.82	0.26	1.1	1.17	0	0	0	0	0	0
3/10/2025 12:11	41801	GOCI_T2	11	24	13	0.45	0.5	0.05	0	0	0	0	0	0	0	0
3/10/2025 12:12	41801	GOCI_T2	11	24	13	0.45	0.5	0.05	0	0	0	0	0	0	0	0
3/10/2025 12:12	52502	PROG_T2	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
3/10/2025 12:14	41801	GOCI_T2	11	24	13	0.45	0.5	0.05	0	0	0	0	0	0	0	0
3/10/2025 12:17	40101	HUNT_T2	2	2	0	0.55	0.65	0.1	-1.14	-1.14	0	0	0	0	0	0
3/10/2025 12:18	23401	HONE_T2	0	0	0	0	0	0	-0.2	-0.18	0	0	0	0	0	0
3/10/2025 12:18	41801	GOCI_T2	22	19	-3	0.5	0.46	-0.04	0	0	0	0	0	0	0	0
3/10/2025 12:20	40201	BEGA_T2	3	4	1	0.27	0.43	0.16	0	0	0	0	0	0	0	0
3/10/2025 12:21	52102	MEIS_T1	4	5	1	0.4	0.82	0.42	0	0	0	0	0	0	0	0
3/10/2025 12:21	66501	SMAN_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/10/2025 12:21	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 12:21	42903	MIDD_T2	2	2	0	1	1	0	2.11	1.49	0	0	0	0	0	0
3/10/2025 12:21	66504	SMAN_T2	4	4	0	0.65	0.53	-0.12	-0.66	-0.59	0	0	0	0	0	0
3/10/2025 12:21	66502	SMAN_T2	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
3/10/2025 12:21	42902	MIDD_T2	1	4	3	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
3/10/2025 12:21	52101	MEIS_T1	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
3/10/2025 12:21	42901	MIDD_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 12:22	52101	MEIS_T1	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/10/2025 12:22	52102	MEIS_T1	4	5	1	0.4	0.82	0.42	0	0	1	1	0	450	450	0
3/10/2025 12:22	14601	SWHI_T1	3	3	0	0.23	0.47	0.24	0	0	0	0	0	0	0	0
3/10/2025 12:22	14603	SWHI_T1	5	10	5	0.46	0.44	-0.02	-1.02	-1.04	1	1	0	600	600	0
3/10/2025 12:23	66503	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 12:23	66502	SMAN_T2	2	1	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
3/10/2025 12:23	66501	SMAN_T2	2	1	-1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/10/2025 12:23	66504	SMAN_T2	4	4	0	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
3/10/2025 12:24	14601	SWHI_T1	3	3	0	0.23	0.47	0.24	-1.82	-1.8	0	0	0	0	0	0
3/10/2025 12:24	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 12:24	14603	SWHI_T1	5	10	5	0.46	0.44	-0.02	-2.04	-2.08	2	2	0	1200	1200	0
3/10/2025 12:25	41602	CLEV_T1	4	3	-1	0.55	0.7	0.15	0	0	0	0	0	0	0	0
3/10/2025 12:25	41601	CLEV_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/10/2025 12:25	24902	WHHA_T1	4	4	0	0.73	0.6	-0.13	0	0	0	0	0	0	0	0
3/10/2025 12:25	24901	WHHA_T1	1	1	0	0.8	0.9	0.1	-0.87	-0.87	0	0	0	0	0	0
3/10/2025 12:26	14601	SWHI_T1	3	3	0	0.23	0.47	0.24	0	0	0	0	0	0	0	0
3/10/2025 12:26	14603	SWHI_T1	5	10	5	0.46	0.44	-0.02	0	0	0	0	0	0	0	0
3/10/2025 12:26	41602	CLEV_T1	4	3	-1	0.55	0.7	0.15	0	0	0	0	0	0	0	0
3/10/2025 12:26	41601	CLEV_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/10/2025 12:28	41601	CLEV_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/10/2025 12:28	14601	SWHI_T1	3	3	0	0.23	0.47	0.24	0	0	0	0	0	0	0	0
3/10/2025 12:28	24902	WHHA_T1	4	4	0	0.73	0.6	-0.13	0	0	0	0	0	0	0	0
3/10/2025 12:28	41602	CLEV_T1	4	3	-1	0.55	0.7	0.15	0	0	1	1	0	600	600	0
3/10/2025 12:28	14603	SWHI_T1	5	10	5	0.46	0.44	-0.02	-1.02	-1.04	1	1	0	600	600	0
3/10/2025 12:28	24901	WHHA_T1	1	1	0	0.8	0.9	0.1	-0.87	-0.87	0	0	0	0	0	0
3/10/2025 12:30	20603	GRWO_T2	17	31	14	0.16	0.23	0.07	-0.63	-0.56	1	1	0	900	900	0
3/10/2025 12:32	58401	MORO_T1	1	3	2	0.1	0.33	0.23	-1.18	-1.19	1	1	0	600	600	0
3/10/2025 12:32	52401	GRPA_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/10/2025 12:32	52402	GRPA_T2	22	19	-3	0.68	0.63	-0.05	0	0	0	0	0	0	0	0
3/10/2025 12:32	52403	GRPA_T2	20	19	-1	0.69	0.67	-0.02	-0.63	-0.63	0	0	0	0	0	0
3/10/2025 12:33	64202	KINZ_T1	3	5	2	0.63	0.38	-0.25	0	0	0	0	0	0	0	0
3/10/2025 12:33	64203	KINZ_T1	0	0	0	0	0	0	-0.2	-0.16	2	2	0	1800	1800	0
3/10/2025 12:33	64204	KINZ_T1	69	69	0	1.15	1.29	0.14	0	0	0	0	0	0	0	0
3/10/2025 12:34	58401	MORO_T1	1	3	2	0.1	0.33	0.23	-1.18	-1.19	1	1	0	600	600	0
3/10/2025 12:35	57403	SPAN_T1	36	38	2	0.31	0.33	0.02	-0.06	-0.05	0	0	0	0	0	0
3/10/2025 12:35	64101	REFR_T1	10	10	0	0.71	0.7	-0.01	-0.14	-0.15	0	0	0	0	0	0
3/10/2025 12:35	57401	SPAN_T1	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
3/10/2025 12:36	64101	REFR_T1	10	10	0	0.71	0.7	-0.01	-0.3	-0.3	0	0	0	0	0	0
3/10/2025 12:37	57404	SPAN_T2	0	0	0	0	0	0	0.39	0.31	1	1	0	1200	1200	0
3/10/2025 12:37	64101	REFR_T1	10	10	0	0.71	0.7	-0.01	-0.45	-0.45	0	0	0	0	0	0
3/10/2025 12:37	67402	WAKE_T2	4	4	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/10/2025 12:37	67401	WAKE_T2	4	3	-1	0.53	0.53	0	-1.13	-1.17	0	0	0	0	0	0
3/10/2025 12:37	58401	MORO_T1	1	3	2	0.1	0.33	0.23	-1.19	-1.22	1	1	0	600	600	0
3/10/2025 12:37	57402	SPAN_T2	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
3/10/2025 12:38	64101	REFR_T1	10	10	0	0.71	0.7	-0.01	-0.3	-0.3	0	0	0	0	0	0
3/10/2025 12:38	57403	SPAN_T1	36	38	2	0.31	0.33	0.02	0	0	0	0	0	0	0	0
3/10/2025 12:38	57401	SPAN_T1	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
3/10/2025 12:38	52501	PROG_T1	0	0	0	0	0	0	0.3	0.29	1	1	0	300	300	0
3/10/2025 12:38	13302	ORVI_T2	4	4	0	0.9	1.05	0.15	1.16	1.3	0	0	0	0	0	0
3/10/2025 12:39	16801	WAGN_T1	2	3	1	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
3/10/2025 12:39	52501	PROG_T1	0	0	0	0	0	0	0.59	0.58	2	2	0	600	600	0
3/10/2025 12:39	54601	SUMM_T2	3	4	1	1.37	1.15	-0.22	-1.87	-1.9	2	2	0	2100	2100	0
3/10/2025 12:39	64101	REFR_T1	10	10	0	0.71	0.7	-0.01	-0.15	-0.15	0	0	0	0	0	0
3/10/2025 12:40	57403	SPAN_T1	36	38	2	0.31	0.33	0.02	-0.05	-0.07	0	0	0	0	0	0
3/10/2025 12:40	67401	WAKE_T2	4	3	-1	0.53	0.53	0	0	0	0	0	0	0	0	0
3/10/2025 12:40	41601	CLEV_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/10/2025 12:40	51904	COPA_T1	8	10	2	0.83	0.94	0.11	0	0	0	0	0	0	0	0
3/10/2025 12:40	51901	COPA_T1	4	4	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
3/10/2025 12:40	57401	SPAN_T1	2	2	0	0.8	0.95	0.15	0	0	0	0	0	0	0	0
3/10/2025 12:40	51906	COPA_T1	0	0	0	0	0	0	-1.11	-1.09	2	2	0	1500	1500	0
3/10/2025 12:40	67402	WAKE_T2	4	4	0	0.2	0.3	0.1	0.42	0.45	1	1	0	600	600	0
3/10/2025 12:40	41602	CLEV_T1	3	3	0	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
3/10/2025 12:40	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 12:42	41601	CLEV_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/10/2025 12:42	53903	HALI_T2	7	8	1	0.7	0.79	0.09	0	0	0	0	0	0	0	0
3/10/2025 12:42	41602	CLEV_T1	3	3	0	0.67	0.63	-0.04	0	0	0	0	0	0	0	0
3/10/2025 12:42	51901	COPA_T1	4	4	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
3/10/2025 12:42	53902	HALI_T2	4	4	0	4.25	2.57	-1.68	0	0	0	0	0	0	0	0
3/10/2025 12:42	53901	HALI_T2	2	6	4	0.55	0.35	-0.2	-1.09	-1.05	0	0	0	0	0	0
3/10/2025 12:42	51904	COPA_T1	8	10	2	0.83	0.94	0.11	-1.09	-1.08	2	2	0	1200	1200	0
3/10/2025 12:44	61801	EELI_T2	19	14	-5	0.51	0.51	0	0	0	0	0	0	0	0	0
3/10/2025 12:44	61803	EELI_T2	1	1	0	0.2	0.2	0	0.98	0.94	0	0	0	0	0	0
3/10/2025 12:44	11202	ELHE_T2	0	0	0	0	0	0	0.37	0.37	1	1	0	1200	1200	0
3/10/2025 12:45	53901	HALI_T2	5	6	1	0.36	0.35	-0.01	-1.09	-1.05	0	0	0	0	0	0
3/10/2025 12:45	53903	HALI_T2	7	9	2	0.87	0.58	-0.29	0	0	0	0	0	0	0	0
3/10/2025 12:45	53902	HALI_T2	3	5	2	2.53	1.93	-0.6	0	0	0	0	0	0	0	0
3/10/2025 12:48	53902	HALI_T2	3	5	2	2.53	1.93	-0.6	-0.91	-0.9	0	0	0	0	0	0
3/10/2025 12:48	53901	HALI_T2	5	6	1	0.36	0.35	-0.01	-1.09	-1.05	0	0	0	0	0	0
3/10/2025 12:48	53903	HALI_T2	7	9	2	0.87	0.58	-0.29	0	0	0	0	0	0	0	0
3/10/2025 12:52	45501	DERR_T2	1	3	2	0.6	0.4	-0.2	0.5	0.42	2	2	0	1800	1800	0
3/10/2025 12:54	20401	ASHF_T2	1	4	3	1.2	0.47	-0.73	0	0	0	0	0	0	0	0
3/10/2025 12:54	20403	ASHF_T2	57	28	-29	0.36	0.44	0.08	-0.09	-0.07	0	0	0	0	0	0
3/10/2025 12:57	20401	ASHF_T2	1	4	3	1.2	0.47	-0.73	0	0	0	0	0	0	0	0
3/10/2025 12:57	20403	ASHF_T2	57	28	-29	0.36	0.44	0.08	-0.09	-0.07	0	0	0	0	0	0
3/10/2025 13:06	14802	TREI_T2	5	6	1	0.8	0.48	-0.32	0.23	0.27	0	0	0	0	0	0
3/10/2025 13:06	14801	TREI_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/10/2025 13:08	14801	TREI_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/10/2025 13:08	14802	TREI_T2	5	6	1	0.8	0.48	-0.32	0.54	0.5	0	0	0	0	0	0
3/10/2025 13:08	66502	SMAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/10/2025 13:08	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 13:08	66504	SMAN_T2	2	5	3	0.8	0.46	-0.34	-0.52	-0.53	0	0	0	0	0	0
3/10/2025 13:09	66502	SMAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/10/2025 13:09	66504	SMAN_T2	2	5	3	0.8	0.46	-0.34	-1.04	-1.07	0	0	0	0	0	0
3/10/2025 13:09	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 13:09	60301	TWVA_T2	0	0	0	0	0	0	-3.09	-3.15	2	2	0	1800	1800	0
3/10/2025 13:10	40501	CRES_T2	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
3/10/2025 13:11	40504	CRES_T1	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
3/10/2025 13:11	40505	CRES_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
3/10/2025 13:12	14801	TREI_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/10/2025 13:12	14802	TREI_T2	5	6	1	0.8	0.48	-0.32	0.27	0.25	0	0	0	0	0	0
3/10/2025 13:12	41601	CLEV_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/10/2025 13:12	41602	CLEV_T1	3	3	0	0.57	0.67	0.1	0	0	0	0	0	0	0	0
3/10/2025 13:12	40505	CRES_T1	1	1	0	0.1	0.5	0.4	0.25	0.28	0	0	0	0	0	0
3/10/2025 13:12	40504	CRES_T1	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
3/10/2025 13:13	51102	CARL_T1	2	1	-1	1.5	2.8	1.3	0	0	0	0	0	0	0	0
3/10/2025 13:13	41601	CLEV_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/10/2025 13:13	41602	CLEV_T1	3	3	0	0.57	0.67	0.1	0	0	0	0	0	0	0	0
3/10/2025 13:13	51108	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 13:13	40505	CRES_T1	1	1	0	0.1	0.5	0.4	0.25	0.28	0	0	0	0	0	0
3/10/2025 13:13	51101	CARL_T1	1	1	0	6.1	6.3	0.2	0	0	0	0	0	0	0	0
3/10/2025 13:13	41801	GOCI_T2	8	21	13	0.3	0.41	0.11	0	0	0	0	0	0	0	0
3/10/2025 13:13	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 13:13	61802	EELI_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
3/10/2025 13:13	61801	EELI_T2	11	50	39	0.54	0.51	-0.03	0	0	0	0	0	0	0	0
3/10/2025 13:13	40504	CRES_T1	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
3/10/2025 13:13	61803	EELI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/10/2025 13:13	60801	BUCK_T1	1	1	0	0.4	0.2	-0.2	-0.05	-0.01	0	0	0	0	0	0
3/10/2025 13:13	40501	CRES_T2	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
3/10/2025 13:14	11904	ETEX_T2	2	1	-1	0.1	0.1	0	0.17	0.17	0	0	0	0	0	0
3/10/2025 13:14	52401	GRPA_T2	2	2	0	0.3	0.35	0.05	0.94	0.95	0	0	0	0	0	0
3/10/2025 13:14	52402	GRPA_T2	16	15	-1	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
3/10/2025 13:14	11901	ETEX_T2	3	3	0	0.5	0.4	-0.1	0.27	0.33	0	0	0	0	0	0
3/10/2025 13:14	41801	GOCI_T2	8	21	13	0.3	0.41	0.11	0	0	0	0	0	0	0	0
3/10/2025 13:14	52403	GRPA_T2	17	19	2	0.72	0.74	0.02	0	0	0	0	0	0	0	0
3/10/2025 13:15	54505	ENOL_T2	2	2	0	0.7	0.75	0.05	0	0	0	0	0	0	0	0
3/10/2025 13:15	54502	ENOL_T2	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
3/10/2025 13:15	54504	ENOL_T2	1	1	0	0.5	0.4	-0.1	-1.16	-1.15	1	1	0	600	600	0
3/10/2025 13:16	11901	ETEX_T2	2	3	1	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
3/10/2025 13:16	11904	ETEX_T2	1	0	-1	0.1	0	-0.1	0.17	0.17	0	0	0	0	0	0
3/10/2025 13:16	40504	CRES_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
3/10/2025 13:16	40505	CRES_T1	0	1	1	0	0.5	0.5	0.5	0.56	0	0	0	0	0	0
3/10/2025 13:20	42902	MIDD_T2	1	6	5	1	0.5	-0.5	-0.19	-0.19	0	0	0	0	0	0
3/10/2025 13:24	20401	ASHF_T2	4	3	-1	0.5	0.33	-0.17	0.44	0.39	0	0	0	0	0	0
3/10/2025 13:24	20403	ASHF_T2	23	23	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/10/2025 13:25	40504	CRES_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
3/10/2025 13:25	40505	CRES_T1	0	1	1	0	0.5	0.5	0.28	0.25	0	0	0	0	0	0
3/10/2025 13:26	40501	CRES_T2	1	7	6	1.1	0.36	-0.74	0	0	0	0	0	0	0	0
3/10/2025 13:28	41602	CLEV_T1	3	3	0	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
3/10/2025 13:28	41601	CLEV_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/10/2025 13:28	40501	CRES_T2	1	7	6	1.1	0.36	-0.74	0	0	0	0	0	0	0	0
3/10/2025 13:29	41602	CLEV_T1	3	3	0	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
3/10/2025 13:29	41601	CLEV_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/10/2025 13:29	53902	HALI_T2	4	4	0	1.9	2.15	0.25	0	0	0	0	0	0	0	0
3/10/2025 13:29	53903	HALI_T2	9	12	3	0.42	0.63	0.21	0	0	0	0	0	0	0	0
3/10/2025 13:29	53901	HALI_T2	5	8	3	0.34	0.46	0.12	-1.09	-1.08	0	0	0	0	0	0
3/10/2025 13:30	61803	EELI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/10/2025 13:30	41202	KENM_T2	2	2	0	0.6	0.35	-0.25	-0.67	-0.64	0	0	0	0	0	0
3/10/2025 13:30	41204	KENM_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/10/2025 13:30	61801	EELI_T2	50	55	5	0.51	0.54	0.03	0	0	0	0	0	0	0	0
3/10/2025 13:32	53903	HALI_T2	10	11	1	0.6	0.7	0.1	-0.14	-0.15	0	0	0	0	0	0
3/10/2025 13:32	53902	HALI_T2	4	5	1	2.05	1.82	-0.23	0	0	0	0	0	0	0	0
3/10/2025 13:32	53901	HALI_T2	7	5	-2	0.41	0.52	0.11	0	0	0	0	0	0	0	0
3/10/2025 13:35	57505	LAWN_T3	0	0	0	0	0	0	0.41	0.44	0	0	0	0	0	0
3/10/2025 13:35	66504	SMAN_T2	5	3	-2	0.46	0.6	0.14	-0.53	-0.54	0	0	0	0	0	0
3/10/2025 13:35	41002	LAUR_T2	5	6	1	0.7	0.67	-0.03	0	0	0	0	0	0	0	0
3/10/2025 13:35	66502	SMAN_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/10/2025 13:35	66501	SMAN_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/10/2025 13:35	57501	LAWN_T3	2	2	0	0.2	0.35	0.15	0	0	0	0	0	0	0	0
3/10/2025 13:35	41001	LAUR_T2	34	19	-15	0.26	0.33	0.07	0	0	0	0	0	0	0	0
3/10/2025 13:36	65503	MOJO_T2	2	2	0	0.25	0.35	0.1	-0.9	-0.83	1	1	0	900	900	0
3/10/2025 13:36	52501	PROG_T1	0	0	0	0	0	0	0.32	0.31	1	1	0	300	300	0
3/10/2025 13:37	52501	PROG_T1	0	0	0	0	0	0	0.31	0.33	1	1	0	300	300	0
3/10/2025 13:39	43402	BENT_T1	2	2	0	0.45	1.25	0.8	-0.92	-0.93	1	1	0	900	900	0
3/10/2025 13:39	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/10/2025 13:40	43402	BENT_T1	2	2	0	0.45	1.25	0.8	-0.92	-0.93	1	1	0	900	900	0
3/10/2025 13:42	44801	EDAN_T2	2	4	2	0.75	0.58	-0.17	0	0	0	0	0	0	0	0
3/10/2025 13:42	44802	EDAN_T2	0	0	0	0	0	0	-2.21	-2.2	0	0	0	0	0	0
3/10/2025 13:43	44802	EDAN_T2	0	0	0	0	0	0	-2.21	-2.2	0	0	0	0	0	0
3/10/2025 13:43	44801	EDAN_T2	2	4	2	0.75	0.58	-0.17	0	0	0	0	0	0	0	0
3/10/2025 13:44	44801	EDAN_T2	2	4	2	0.75	0.58	-0.17	0	0	0	0	0	0	0	0
3/10/2025 13:44	44802	EDAN_T2	0	0	0	0	0	0	-4.42	-4.39	0	0	0	0	0	0
3/10/2025 13:45	44801	EDAN_T2	4	3	-1	0.55	0.63	0.08	0	0	0	0	0	0	0	0
3/10/2025 13:45	22602	KIMB_T1	2	3	1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/10/2025 13:45	44802	EDAN_T2	0	0	0	0	0	0	-4.42	-4.39	0	0	0	0	0	0
3/10/2025 13:45	22601	KIMB_T1	2	2	0	1.15	1.2	0.05	0	0	0	0	0	0	0	0
3/10/2025 13:47	44801	EDAN_T2	4	3	-1	0.55	0.63	0.08	0	0	0	0	0	0	0	0
3/10/2025 13:47	44802	EDAN_T2	0	0	0	0	0	0	-2.21	-2.2	0	0	0	0	0	0
3/10/2025 13:53	52501	PROG_T1	0	0	0	0	0	0	0.33	0.32	1	1	0	300	300	0
3/10/2025 13:55	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 13:55	67106	SPRI_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/10/2025 13:55	41602	CLEV_T1	3	2	-1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/10/2025 13:55	67101	SPRI_T2	0	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0
3/10/2025 13:57	51901	COPA_T1	5	6	1	0.46	0.38	-0.08	-1.52	-1.53	1	1	0	1200	1200	0
3/10/2025 13:57	51906	COPA_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/10/2025 13:57	51904	COPA_T1	10	10	0	1.07	1.05	-0.02	0	0	0	0	0	0	0	0
3/10/2025 13:58	10903	COOP_T2	8	62	54	0.6	0.25	-0.35	-0.38	-0.47	1	1	0	600	600	0
3/10/2025 13:58	62605	ENGL_T1	3	3	0	0.4	0.4	0	-0.89	-0.87	0	0	0	0	0	0
3/10/2025 13:58	10901	COOP_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
3/10/2025 13:58	62606	ENGL_T1	7	33	26	0.11	0.11	0	0	0	0	0	0	0	0	0
3/10/2025 13:58	62607	ENGL_T1	1	3	2	0.5	0.23	-0.27	-1.14	-1.1	1	1	0	300	300	0
3/10/2025 13:58	62602	ENGL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/10/2025 13:59	44801	EDAN_T2	4	3	-1	0.55	0.63	0.08	-0.44	-0.46	0	0	0	0	0	0
3/10/2025 13:59	41501	FAIR_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
3/10/2025 13:59	62602	ENGL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/10/2025 13:59	47901	HRDG_T1	0	0	0	0	0	0	0.56	0.46	1	1	0	1200	1200	0
3/10/2025 13:59	62607	ENGL_T1	1	3	2	0.5	0.23	-0.27	-3.41	-3.3	3	3	0	900	900	0
3/10/2025 13:59	62606	ENGL_T1	7	33	26	0.11	0.11	0	-1.6	-1.62	1	1	0	900	900	0
3/10/2025 13:59	62605	ENGL_T1	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/10/2025 14:00	44801	EDAN_T2	3	4	1	0.63	0.7	0.07	-0.44	-0.46	0	0	0	0	0	0
3/10/2025 14:00	62606	ENGL_T1	16	79	63	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/10/2025 14:00	62607	ENGL_T1	3	3	0	0.23	0.33	0.1	-1.14	-1.1	1	1	0	300	300	0
3/10/2025 14:00	62602	ENGL_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/10/2025 14:00	62605	ENGL_T1	3	5	2	0.4	0.4	0	0	0	0	0	0	0	0	0
3/10/2025 14:01	62607	ENGL_T1	3	3	0	0.23	0.33	0.1	-1.14	-1.1	1	1	0	300	300	0
3/10/2025 14:01	62606	ENGL_T1	16	79	63	0.1	0.18	0.08	-1.6	-1.62	1	1	0	900	900	0
3/10/2025 14:01	62602	ENGL_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/10/2025 14:01	62605	ENGL_T1	3	5	2	0.4	0.4	0	0	0	0	0	0	0	0	0
3/10/2025 14:02	40101	HUNT_T2	1	1	0	1	1	0	-1.05	-1.07	0	0	0	0	0	0
3/10/2025 14:02	62605	ENGL_T1	3	5	2	0.4	0.4	0	0	0	0	0	0	0	0	0
3/10/2025 14:02	17802	GILB_T1	4	5	1	0.55	0.58	0.03	0.03	0	0	0	0	0	0	0
3/10/2025 14:02	62601	ENGL_T1	0	0	0	0	0	0	-1.38	-1.39	0	0	0	0	0	0
3/10/2025 14:02	62602	ENGL_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/10/2025 14:02	62607	ENGL_T1	3	3	0	0.23	0.33	0.1	0	0	0	0	0	0	0	0
3/10/2025 14:02	62606	ENGL_T1	16	79	63	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/10/2025 14:03	40101	HUNT_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/10/2025 14:05	22602	KIMB_T1	3	2	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/10/2025 14:05	22601	KIMB_T1	2	2	0	1.2	1.15	-0.05	0.23	0.25	0	0	0	0	0	0
3/10/2025 14:06	52101	MEIS_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/10/2025 14:07	57402	SPAN_T2	1	0	-1	0.2	0	-0.2	-1.24	-1.24	0	0	0	0	0	0
3/10/2025 14:08	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 14:08	66505	SMAN_T2	0	0	0	0	0	0	0.07	0.18	1	1	0	900	900	0
3/10/2025 14:08	66504	SMAN_T2	2	3	1	0.85	0.53	-0.32	0	0	0	0	0	0	0	0
3/10/2025 14:08	66502	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 14:09	57401	SPAN_T1	3	3	0	0.67	0.67	0	0	0	0	0	0	0	0	0
3/10/2025 14:09	57403	SPAN_T1	164	171	7	0.37	0.47	0.1	0	0	0	0	0	0	0	0
3/10/2025 14:09	46002	BERW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 14:09	46004	BERW_T2	3	3	0	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
3/10/2025 14:10	64101	REFR_T1	13	16	3	0.81	0.67	-0.14	-0.15	-0.16	0	0	0	0	0	0
3/10/2025 14:10	46005	BERW_T1	2	2	0	0.35	0.4	0.05	0	0	0	0	0	0	0	0
3/10/2025 14:10	16302	ALPA_T2	2	1	-1	0.35	0.4	0.05	0.5	0.57	0	0	0	0	0	0
3/10/2025 14:10	46001	BERW_T1	0	0	0	0	0	0	1.73	1.58	0	0	0	0	0	0
3/10/2025 14:12	16302	ALPA_T2	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
3/10/2025 14:14	16302	ALPA_T2	2	1	-1	0.35	0.4	0.05	1	1.15	0	0	0	0	0	0
3/10/2025 14:16	53901	HALI_T2	6	7	1	0.4	0.41	0.01	0	0	0	0	0	0	0	0
3/10/2025 14:16	53902	HALI_T2	4	6	2	2.25	1.45	-0.8	0	0	0	0	0	0	0	0
3/10/2025 14:16	53903	HALI_T2	10	9	-1	0.67	0.79	0.12	0	0	0	0	0	0	0	0
3/10/2025 14:18	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 14:18	58401	MORO_T1	2	4	2	0.5	0.25	-0.25	-2.46	-2.44	2	2	0	1200	1200	0
3/10/2025 14:18	41602	CLEV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 14:24	52402	GRPA_T2	12	19	7	0.63	0.65	0.02	0	0	0	0	0	0	0	0
3/10/2025 14:24	52401	GRPA_T2	1	2	1	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
3/10/2025 14:24	52403	GRPA_T2	13	19	6	0.63	0.64	0.01	-0.61	-0.62	0	0	0	0	0	0
3/10/2025 14:25	60801	BUCK_T1	0	1	1	0	0.4	0.4	0	-0.04	0	0	0	0	0	0
3/10/2025 14:26	14801	TREI_T2	2	2	0	0.25	0.6	0.35	0	0	0	0	0	0	0	0
3/10/2025 14:26	44802	EDAN_T2	0	0	0	0	0	0	-2.23	-2.21	0	0	0	0	0	0
3/10/2025 14:26	44801	EDAN_T2	2	4	2	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/10/2025 14:26	14802	TREI_T2	6	6	0	0.57	0.35	-0.22	0.24	0.24	0	0	0	0	0	0
3/10/2025 14:32	52402	GRPA_T2	14	20	6	0.71	0.55	-0.16	0	0	0	0	0	0	0	0
3/10/2025 14:32	11404	FARM_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/10/2025 14:32	45801	HEGI_T1	1	0	-1	0.2	0	-0.2	-0.95	-0.91	1	1	0	900	900	0
3/10/2025 14:32	52403	GRPA_T2	18	17	-1	0.54	0.68	0.14	0	0	0	0	0	0	0	0
3/10/2025 14:32	11402	FARM_T1	7	4	-3	0.44	0.48	0.04	0	0	0	0	0	0	0	0
3/10/2025 14:32	11405	FARM_T1	10	13	3	0.52	0.49	-0.03	-1.27	-1.27	1	1	0	1200	1200	0
3/10/2025 14:32	52401	GRPA_T2	1	2	1	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
3/10/2025 14:33	54502	ENOL_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
3/10/2025 14:33	54505	ENOL_T2	2	2	0	1	0.9	-0.1	-1.43	-1.42	1	1	0	600	600	0
3/10/2025 14:33	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 14:33	52402	GRPA_T2	14	20	6	0.71	0.55	-0.16	0	0	0	0	0	0	0	0
3/10/2025 14:33	54504	ENOL_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/10/2025 14:33	52401	GRPA_T2	1	2	1	0.7	0.25	-0.45	-0.85	-0.89	0	0	0	0	0	0
3/10/2025 14:33	52403	GRPA_T2	18	17	-1	0.54	0.68	0.14	0	0	0	0	0	0	0	0
3/10/2025 14:34	54505	ENOL_T2	2	2	0	1	0.9	-0.1	-1.43	-1.42	1	1	0	600	600	0
3/10/2025 14:34	54501	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 14:34	54502	ENOL_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
3/10/2025 14:34	54504	ENOL_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/10/2025 14:36	15204	SFAR_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/10/2025 14:36	15203	SFAR_T2	6	12	6	0.63	0.42	-0.21	-1.37	-1.37	0	0	0	0	0	0
3/10/2025 14:37	64101	REFR_T1	15	17	2	0.69	0.79	0.1	-0.17	-0.16	0	0	0	0	0	0
3/10/2025 14:38	46506	LOHA_T1	4	4	0	3.23	3.15	-0.08	0	0	0	0	0	0	0	0
3/10/2025 14:38	46504	LOHA_T1	24	3	-21	0.28	0.97	0.69	0	0	0	0	0	0	0	0
3/10/2025 14:38	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
3/10/2025 14:39	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.6	0	0	0	0	0	0
3/10/2025 14:39	46506	LOHA_T1	4	4	0	3.23	3.15	-0.08	0	0	0	0	0	0	0	0
3/10/2025 14:39	46504	LOHA_T1	24	3	-21	0.28	0.97	0.69	0	0	0	0	0	0	0	0
3/10/2025 14:42	60801	BUCK_T1	1	1	0	0.3	0.4	0.1	-0.04	-0.02	0	0	0	0	0	0
3/10/2025 14:42	44802	EDAN_T2	0	0	0	0	0	0	-2.21	-2.19	0	0	0	0	0	0
3/10/2025 14:42	44801	EDAN_T2	4	3	-1	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
3/10/2025 14:45	53903	HALI_T2	9	9	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/10/2025 14:45	53901	HALI_T2	6	5	-1	0.42	0.44	0.02	-1.05	-1.08	0	0	0	0	0	0
3/10/2025 14:45	53902	HALI_T2	5	4	-1	1.7	2	0.3	0	0	0	0	0	0	0	0
3/10/2025 14:47	64202	KINZ_T1	6	5	-1	0.72	0.54	-0.18	0	0	0	0	0	0	0	0
3/10/2025 14:47	64201	KINZ_T1	0	0	0	0	0	0	-0.13	-0.07	3	3	0	1500	1500	0
3/10/2025 14:47	64204	KINZ_T1	73	70	-3	1.51	1.46	-0.05	0	0	0	0	0	0	0	0
3/10/2025 14:48	64201	KINZ_T1	0	0	0	0	0	0	-0.13	-0.07	3	3	0	1500	1500	0
3/10/2025 14:48	64204	KINZ_T1	73	70	-3	1.51	1.46	-0.05	0	0	0	0	0	0	0	0
3/10/2025 14:48	53902	HALI_T2	5	4	-1	1.7	2	0.3	0	0	0	0	0	0	0	0
3/10/2025 14:48	53901	HALI_T2	6	5	-1	0.42	0.44	0.02	-3.15	-3.24	0	0	0	0	0	0
3/10/2025 14:48	53903	HALI_T2	9	9	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/10/2025 14:48	64202	KINZ_T1	6	5	-1	0.72	0.54	-0.18	0	0	0	0	0	0	0	0
3/10/2025 14:49	64204	KINZ_T1	73	70	-3	1.51	1.46	-0.05	0	0	0	0	0	0	0	0
3/10/2025 14:49	64202	KINZ_T1	6	5	-1	0.72	0.54	-0.18	0.79	0.72	0	0	0	0	0	0
3/10/2025 14:50	64202	KINZ_T1	6	5	-1	0.72	0.54	-0.18	0	0	0	0	0	0	0	0
3/10/2025 14:50	64204	KINZ_T1	73	70	-3	1.51	1.46	-0.05	0	0	0	0	0	0	0	0
3/10/2025 14:50	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 14:52	67605	WARW_T1	63	87	24	0.48	0.39	-0.09	-2.08	-2.03	0	0	0	0	0	0
3/10/2025 14:52	67603	WARW_T1	3	2	-1	0.47	0.7	0.23	0	0	0	0	0	0	0	0
3/10/2025 14:53	64101	REFR_T1	16	15	-1	0.79	0.75	-0.04	-0.16	-0.16	0	0	0	0	0	0
3/10/2025 14:53	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 14:53	67605	WARW_T1	63	87	24	0.48	0.39	-0.09	0	0	0	0	0	0	0	0
3/10/2025 14:53	45902	AUBU_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/10/2025 14:53	67603	WARW_T1	3	2	-1	0.47	0.7	0.23	0	0	0	0	0	0	0	0
3/10/2025 14:53	67601	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 14:55	67605	WARW_T1	63	87	24	0.48	0.39	-0.09	0	0	0	0	0	0	0	0
3/10/2025 14:55	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 14:55	67603	WARW_T1	3	2	-1	0.47	0.7	0.23	0	0	0	0	0	0	0	0
3/10/2025 14:56	14801	TREI_T2	2	2	0	0.5	0.35	-0.15	0.21	0.24	0	0	0	0	0	0
3/10/2025 14:56	14802	TREI_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/10/2025 14:57	67605	WARW_T1	63	87	24	0.48	0.39	-0.09	-1.04	-1.01	0	0	0	0	0	0
3/10/2025 14:57	67603	WARW_T1	3	2	-1	0.47	0.7	0.23	0	0	0	0	0	0	0	0
3/10/2025 15:04	16402	MOPO_T1	5	2	-3	0.56	1	0.44	-0.03	-0.07	0	0	0	0	0	0
3/10/2025 15:07	67605	WARW_T1	46	125	79	0.55	0.35	-0.2	-1.01	-1	0	0	0	0	0	0
3/10/2025 15:07	67603	WARW_T1	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
3/10/2025 15:07	67604	WARW_T1	0	0	0	0	0	0	0.09	0.22	0	0	0	0	0	0
3/10/2025 15:08	45902	AUBU_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/10/2025 15:08	67604	WARW_T1	0	0	0	0	0	0	0.09	0.22	0	0	0	0	0	0
3/10/2025 15:08	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 15:08	67605	WARW_T1	46	125	79	0.55	0.35	-0.2	0	0	0	0	0	0	0	0
3/10/2025 15:08	67603	WARW_T1	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
3/10/2025 15:09	45902	AUBU_T1	1	0	-1	0.3	0	-0.3	0	0	1	1	0	600	600	0
3/10/2025 15:09	67603	WARW_T1	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
3/10/2025 15:09	67604	WARW_T1	0	0	0	0	0	0	0.09	0.22	0	0	0	0	0	0
3/10/2025 15:09	67605	WARW_T1	46	125	79	0.55	0.35	-0.2	0	0	0	0	0	0	0	0
3/10/2025 15:10	40501	CRES_T2	7	7	0	0.34	0.41	0.07	0	0	0	0	0	0	0	0
3/10/2025 15:10	45902	AUBU_T1	1	0	-1	0.3	0	-0.3	0	0	1	1	0	600	600	0
3/10/2025 15:10	40502	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 15:11	45902	AUBU_T1	1	0	-1	0.3	0	-0.3	0	0	3	3	0	1800	1800	0
3/10/2025 15:12	10903	COOP_T2	44	72	28	0.24	0.23	-0.01	-0.49	-0.43	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/10/2025 15:12	40501	CRES_T2	7	7	0	0.34	0.41	0.07	0	0	0	0	0	0	0	0
3/10/2025 15:24	64101	REFR_T1	9	11	2	0.92	0.95	0.03	-0.16	-0.14	0	0	0	0	0	0
3/10/2025 15:29	44802	EDAN_T2	0	0	0	0	0	0	-2.22	-2.23	0	0	0	0	0	0
3/10/2025 15:29	44801	EDAN_T2	3	3	0	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
3/10/2025 15:30	44505	HAMI_T2	0	0	0	0	0	0	0.36	0.31	0	0	0	0	0	0
3/10/2025 15:30	44502	HAMI_T2	1	1	0	2.9	2.8	-0.1	0	0	0	0	0	0	0	0
3/10/2025 15:32	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 15:32	44502	HAMI_T2	1	1	0	2.9	2.8	-0.1	0	0	0	0	0	0	0	0
3/10/2025 15:33	44502	HAMI_T2	1	1	0	2.9	2.8	-0.1	0	0	0	0	0	0	0	0
3/10/2025 15:33	44505	HAMI_T2	0	0	0	0	0	0	0.36	0.31	0	0	0	0	0	0
3/10/2025 15:35	64202	KINZ_T1	2	5	3	0.35	0.64	0.29	0	0	0	0	0	0	0	0
3/10/2025 15:35	64204	KINZ_T1	68	69	1	1.41	1.61	0.2	0	0	0	0	0	0	0	0
3/10/2025 15:35	47402	PENS_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/10/2025 15:35	47403	PENS_T1	8	7	-1	0.78	0.73	-0.05	0	0	0	0	0	0	0	0
3/10/2025 15:35	47401	PENS_T1	6	28	22	1.13	0.38	-0.75	0.8	0.96	0	0	0	0	0	0
3/10/2025 15:35	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 15:36	67605	WARW_T1	115	30	-85	0.37	0.64	0.27	0	0	0	0	0	0	0	0
3/10/2025 15:36	67603	WARW_T1	2	2	0	0.5	0.3	-0.2	-0.02	-0.04	0	0	0	0	0	0
3/10/2025 15:37	67605	WARW_T1	115	30	-85	0.37	0.64	0.27	-1.05	-1.01	0	0	0	0	0	0
3/10/2025 15:37	67603	WARW_T1	2	2	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/10/2025 15:38	67603	WARW_T1	2	2	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/10/2025 15:38	67605	WARW_T1	115	30	-85	0.37	0.64	0.27	0	0	0	0	0	0	0	0
3/10/2025 15:39	67401	WAKE_T2	4	0	-4	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/10/2025 15:39	20403	ASHF_T2	18	13	-5	0.45	0.42	-0.03	-0.09	-0.1	0	0	0	0	0	0
3/10/2025 15:39	67402	WAKE_T2	1	0	-1	0.2	0	-0.2	0.19	0.14	0	0	0	0	0	0
3/10/2025 15:40	64101	REFR_T1	11	10	-1	0.87	0.84	-0.03	-0.14	-0.16	0	0	0	0	0	0
3/10/2025 15:41	67401	WAKE_T2	4	0	-4	0.3	0	-0.3	-1.19	-1.11	0	0	0	0	0	0
3/10/2025 15:41	67402	WAKE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/10/2025 15:42	20403	ASHF_T2	18	13	-5	0.45	0.42	-0.03	-0.09	-0.1	0	0	0	0	0	0
3/10/2025 15:46	11901	ETEX_T2	4	3	-1	0.28	0.2	-0.08	0.28	0.3	0	0	0	0	0	0
3/10/2025 15:46	11904	ETEX_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
3/10/2025 15:48	46101	MACI_T2	0	0	0	0	0	0	-1.28	-1.28	2	2	0	2400	2400	0
3/10/2025 15:51	64101	REFR_T1	9	9	0	0.88	0.74	-0.14	-0.16	-0.15	0	0	0	0	0	0
3/10/2025 15:56	64101	REFR_T1	9	9	0	0.88	0.74	-0.14	-0.32	-0.3	0	0	0	0	0	0
3/10/2025 15:57	64101	REFR_T1	9	9	0	0.88	0.74	-0.14	-0.16	-0.15	0	0	0	0	0	0
3/10/2025 15:58	20601	GRWO_T2	0	0	0	0	0	0	0.04	0.2	0	0	0	0	0	0
3/10/2025 16:02	20601	GRWO_T2	0	0	0	0	0	0	0.04	0.2	0	0	0	0	0	0
3/10/2025 16:03	20603	GRWO_T2	0	0	0	0	0	0	0.39	0.32	0	0	0	0	0	0
3/10/2025 16:03	54501	ENOL_T2	1	3	2	0.1	0.13	0.03	-0.6	-0.6	1	1	0	600	600	0
3/10/2025 16:03	54505	ENOL_T2	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
3/10/2025 16:03	54503	ENOL_T2	0	0	0	0	0	0	-0.45	-0.47	1	1	0	600	600	0
3/10/2025 16:03	54506	ENOL_T2	2	0	-2	2.95	0	-2.95	0	0	0	0	0	0	0	0
3/10/2025 16:03	54502	ENOL_T2	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/10/2025 16:05	64101	REFR_T1	8	10	2	0.8	0.56	-0.24	-0.16	-0.15	0	0	0	0	0	0
3/10/2025 16:07	64101	REFR_T1	8	10	2	0.8	0.56	-0.24	-0.15	-0.23	0	0	0	0	0	0
3/10/2025 16:08	44201	POIN_T1	0	99	99	0	0.21	0.21	-1.9	-1.91	2	2	0	2100	2100	0
3/10/2025 16:09	44201	POIN_T1	0	99	99	0	0.21	0.21	-1.9	-1.91	2	2	0	2100	2100	0
3/10/2025 16:10	44201	POIN_T1	0	99	99	0	0.21	0.21	-3.79	-3.81	4	4	0	4200	4200	0
3/10/2025 16:14	11507	FREE_T2	0	0	0	0	0	0	0.56	0.58	0	0	0	0	0	0
3/10/2025 16:17	17805	GILB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 16:17	17803	GILB_T2	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/10/2025 16:17	28801	LAKE_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/10/2025 16:17	28805	LAKE_T1	1	1	0	0.2	0.2	0	-0.26	-0.26	0	0	0	0	0	0
3/10/2025 16:18	65502	MOJO_T2	0	0	0	0	0	0	-1.35	-1.38	1	1	0	900	900	0
3/10/2025 16:19	63501	HEID_TBK1-2	32	36	4	0.25	0.24	-0.01	-0.57	-0.88	2	2	0	1800	1800	0
3/10/2025 16:19	65205	PRIN_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
3/10/2025 16:20	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 16:22	64101	REFR_T1	8	6	-2	0.65	0.55	-0.1	-0.23	-0.22	0	0	0	0	0	0
3/10/2025 16:25	62607	ENGL_T1	0	0	0	0	0	0	-1.17	-1.15	1	1	0	300	300	0
3/10/2025 16:25	62605	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 16:30	61304	EARL_T1	0	0	0	0	0	0	-0.13	-0.31	0	0	0	0	0	0
3/10/2025 16:31	44502	HAMI_T2	2	2	0	1.55	1.75	0.2	0.02	0.02	0	0	0	0	0	0
3/10/2025 16:32	64204	KINZ_T1	66	69	3	0.65	1.2	0.55	0	0	0	0	0	0	0	0
3/10/2025 16:32	64202	KINZ_T1	0	3	3	0	0.67	0.67	0	0	0	0	0	0	0	0
3/10/2025 16:32	64201	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/10/2025 16:37	64101	REFR_T1	6	5	-1	0.5	0.52	0.02	-0.22	-0.22	0	0	0	0	0	0
3/10/2025 16:45	61506	EPET_T2	0	0	0	0	0	0	-1.82	-1.74	2	2	0	1800	1800	0
3/10/2025 16:50	43801	SWIL_T1	2	2	0	3.2	3.3	0.1	0	0	0	0	0	0	0	0
3/10/2025 16:50	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 16:50	15603	NSTR_T2	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
3/10/2025 16:53	64101	REFR_T1	5	2	-3	0.52	0.65	0.13	-0.22	-0.23	0	0	0	0	0	0
3/10/2025 16:54	44302	BEAV_T2	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
3/10/2025 16:54	44301	BEAV_T2	0	0	0	0	0	0	0.12	0.07	1	1	0	600	600	0
3/10/2025 16:56	44302	BEAV_T2	1	2	1	0.5	0.15	-0.35	0.25	0.23	0	0	0	0	0	0
3/10/2025 16:58	60801	BUCK_T1	1	3	2	0.4	0.2	-0.2	-0.26	-0.29	0	0	0	0	0	0
3/10/2025 16:59	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 17:01	45801	HEGI_T1	0	0	0	0	0	0	-1.02	-1.04	1	1	0	900	900	0
3/10/2025 17:02	54502	ENOL_T2	1	1	0	0.4	0.6	0.2	-2.14	-2.12	1	1	0	600	600	0
3/10/2025 17:02	42902	MIDD_T2	47	26	-21	0.28	0.23	-0.05	-1.21	-1.35	0	0	0	0	0	0
3/10/2025 17:02	42903	MIDD_T2	3	2	-1	1.4	1.95	0.55	0	0	0	0	0	0	0	0
3/10/2025 17:02	44302	BEAV_T2	1	1	0	0.1	0.2	0.1	0.5	0.46	0	0	0	0	0	0
3/10/2025 17:02	44301	BEAV_T2	0	0	0	0	0	0	0.12	0.07	1	1	0	600	600	0
3/10/2025 17:02	42901	MIDD_T2	11	8	-3	0.25	0.16	-0.09	0	0	0	0	0	0	0	0
3/10/2025 17:02	40101	HUNT_T2	0	0	0	0	0	0	-1.48	-1.47	0	0	0	0	0	0
3/10/2025 17:02	54505	ENOL_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/10/2025 17:03	46101	MACI_T2	0	0	0	0	0	0	-1.47	-1.76	2	2	0	2400	2400	0
3/10/2025 17:03	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 17:03	44302	BEAV_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/10/2025 17:04	44302	BEAV_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/10/2025 17:04	42901	MIDD_T2	11	8	-3	0.25	0.16	-0.09	0	0	0	0	0	0	0	0
3/10/2025 17:04	42902	MIDD_T2	47	26	-21	0.28	0.23	-0.05	-1.82	-2.02	0	0	0	0	0	0
3/10/2025 17:04	42903	MIDD_T2	3	2	-1	1.4	1.95	0.55	-0.15	-0.24	0	0	0	0	0	0
3/10/2025 17:04	64101	REFR_T1	1	2	1	1.2	0.35	-0.85	-0.22	-0.23	0	0	0	0	0	0
3/10/2025 17:05	42903	MIDD_T2	3	2	-1	1.4	1.95	0.55	0	0	0	0	0	0	0	0
3/10/2025 17:05	42901	MIDD_T2	11	8	-3	0.25	0.16	-0.09	0	0	0	0	0	0	0	0
3/10/2025 17:05	42902	MIDD_T2	47	26	-21	0.28	0.23	-0.05	-0.61	-0.67	0	0	0	0	0	0
3/10/2025 17:10	16102	BING_T2	5	1	-4	0.22	0.1	-0.12	0	0	0	0	0	0	0	0
3/10/2025 17:10	16103	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 17:11	61001	DONV_T1	0	0	0	0	0	0	-0.03	-0.12	0	0	0	0	0	0
3/10/2025 17:12	16103	BING_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 17:12	16102	BING_T2	5	1	-4	0.22	0.1	-0.12	-0.18	-0.16	0	0	0	0	0	0
3/10/2025 17:16	41301	FISH_T1	1	2	1	0.3	1.3	1	-0.72	-0.71	0	0	0	0	0	0
3/10/2025 17:17	58701	ROSE_T2	0	0	0	0	0	0	-0.33	-0.3	1	1	0	600	600	0
3/10/2025 17:20	65802	RTWN_T2	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
3/10/2025 17:20	64101	REFR_T1	2	0	-2	0.35	0	-0.35	-0.23	-0.24	0	0	0	0	0	0
3/10/2025 17:28	40701	FFLD_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 17:28	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 17:29	40702	FFLD_T1	0	0	0	0	0	0	-1.77	-1.76	1	1	0	1200	1200	0
3/10/2025 17:29	40701	FFLD_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 17:43	44801	EDAN_T2	0	0	0	0	0	0	-0.5	-0.51	0	0	0	0	0	0
3/10/2025 17:44	11203	ELHE_T1	0	0	0	0	0	0	0.82	0.76	0	0	0	0	0	0
3/10/2025 17:52	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
3/10/2025 17:55	46101	MACI_T2	0	0	0	0	0	0	-1.77	-1.77	2	2	0	2400	2400	0
3/10/2025 18:03	51003	NHAR_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
3/10/2025 18:03	51002	NHAR_T1	1	1	0	1.8	1.8	0	0	0	0	0	0	0	0	0
3/10/2025 18:03	51004	NHAR_T1	2	2	0	5.7	5.55	-0.15	0	0	0	0	0	0	0	0
3/10/2025 18:17	62105	ELAN_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
3/10/2025 18:24	51904	COPA_T1	5	5	0	0.9	0.92	0.02	0	0	0	0	0	0	0	0
3/10/2025 18:24	51906	COPA_T1	0	0	0	0	0	0	-1.11	-1.13	2	2	0	1500	1500	0
3/10/2025 18:26	60404	DILL_T2	0	0	0	0	0	0	-0.11	-0.22	1	1	0	1200	1200	0
3/10/2025 18:27	60404	DILL_T2	0	0	0	0	0	0	-0.11	-0.22	1	1	0	1200	1200	0
3/10/2025 18:28	10101	ALLE_T3	2	2	0	4.25	3.15	-1.1	0	0	0	0	0	0	0	0
3/10/2025 18:50	55002	NEWP_T1	6	6	0	0.83	0.93	0.1	0	0	0	0	0	0	0	0
3/10/2025 18:50	55001	NEWP_T1	0	1	1	0	0.1	0.1	-0.9	-0.96	0	0	0	0	0	0
3/10/2025 19:59	17802	GILB_T1	0	0	0	0	0	0	0.04	0.07	0	0	0	0	0	0
3/10/2025 20:10	63804	HEMP_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
3/10/2025 20:10	63801	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 20:26	67805	WLAN_T1	0	0	0	0	0	0	-1.62	-1.64	0	0	0	0	0	0
3/10/2025 20:34	48302	ORWI_T2	2	2	0	7.8	7.9	0.1	-0.16	-0.17	0	0	0	0	0	0
3/10/2025 20:39	48302	ORWI_T2	2	2	0	7.8	7.9	0.1	-0.17	-0.18	0	0	0	0	0	0
3/10/2025 20:41	46203	DANV_T2	102	153	51	0.48	0.56	0.08	-1.18	-1.2	0	0	0	0	0	0
3/10/2025 20:44	46203	DANV_T2	102	153	51	0.48	0.56	0.08	-2.36	-2.4	0	0	0	0	0	0
3/10/2025 20:46	46203	DANV_T2	97	165	68	0.44	0.66	0.22	-1.18	-1.2	0	0	0	0	0	0
3/10/2025 21:01	62607	ENGL_T1	0	0	0	0	0	0	-1.15	-1.15	1	1	0	300	300	0
3/10/2025 21:02	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:02	21206	ECAR_T2	1	1	0	7.7	7.9	0.2	-0.16	-0.24	0	0	0	0	0	0
3/10/2025 21:04	40501	CRES_T2	5	4	-1	0.16	0.18	0.02	0	0	0	0	0	0	0	0
3/10/2025 21:04	13302	ORVI_T2	0	0	0	0	0	0	1.29	1.23	0	0	0	0	0	0
3/10/2025 21:04	40502	CRES_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:05	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:06	13302	ORVI_T2	0	0	0	0	0	0	1.29	1.23	0	0	0	0	0	0
3/10/2025 21:06	20601	GRWO_T2	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
3/10/2025 21:06	43402	BENT_T1	0	0	0	0	0	0	-1.05	-1.05	1	1	0	900	900	0
3/10/2025 21:06	16102	BING_T2	2	7	5	0.4	0.23	-0.17	-0.26	-0.28	0	0	0	0	0	0
3/10/2025 21:06	11406	FARM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:06	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:06	11405	FARM_T1	1	1	0	3.7	3.8	0.1	-1.27	-1.26	1	1	0	1200	1200	0
3/10/2025 21:06	11901	ETEX_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
3/10/2025 21:06	16101	BING_T2	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
3/10/2025 21:06	64201	KINZ_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
3/10/2025 21:06	64204	KINZ_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
3/10/2025 21:06	17805	GILB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:07	15601	NSTR_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/10/2025 21:07	15603	NSTR_T2	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
3/10/2025 21:07	66504	SMAN_T2	0	0	0	0	0	0	-1.58	-1.34	0	0	0	0	0	0
3/10/2025 21:07	22601	KIMB_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
3/10/2025 21:07	22602	KIMB_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 21:07	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:08	15203	SFAR_T2	0	0	0	0	0	0	-2.9	-2.9	0	0	0	0	0	0
3/10/2025 21:08	20403	ASHF_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
3/10/2025 21:08	14603	SWHI_T1	0	0	0	0	0	0	-1.08	-1.08	1	1	0	600	600	0
3/10/2025 21:08	26401	INOR_T1	4	3	-1	3.55	4.5	0.95	0	0	0	0	0	0	0	0
3/10/2025 21:08	44802	EDAN_T2	0	1	1	0	0	0	-2.39	-2.42	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/10/2025 21:08	24901	WHHA_T1	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
3/10/2025 21:08	44801	EDAN_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 21:08	10903	COOP_T2	6	34	28	0.1	0.17	0.07	-0.49	-0.49	1	1	0	600	600	0
3/10/2025 21:08	14601	SWHI_T1	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
3/10/2025 21:08	24902	WHHA_T1	7	6	-1	0.63	0.9	0.27	0	0	0	0	0	0	0	0
3/10/2025 21:08	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0.31	0.31	0	0	0	0	0	0
3/10/2025 21:08	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:08	26402	INOR_T1	0	0	0	0	0	0	-1.1	-1.08	1	1	0	600	600	0
3/10/2025 21:08	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/10/2025 21:08	11507	FREE_T2	1	1	0	0.5	0.2	-0.3	0.75	0.78	0	0	0	0	0	0
3/10/2025 21:08	16302	ALPA_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
3/10/2025 21:08	17802	GILB_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
3/10/2025 21:09	23401	HONE_T2	0	0	0	0	0	0	-0.52	-0.5	0	0	0	0	0	0
3/10/2025 21:09	41501	FAIR_T2	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
3/10/2025 21:09	63501	HEID_TBK1-2	25	32	7	0.2	0.29	0.09	-0.61	-0.63	1	1	0	900	900	0
3/10/2025 21:09	44201	POIN_T1	57	19	-38	0.18	0.12	-0.06	-3.91	-3.97	4	4	0	4200	4200	0
3/10/2025 21:09	40505	CRES_T1	6	9	3	0.1	0.1	0	0	0	0	0	0	0	0	0
3/10/2025 21:09	60301	TWVA_T2	0	0	0	0	0	0	-2	-2.03	2	2	0	1800	1800	0
3/10/2025 21:09	67402	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:10	20603	GRWO_T2	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
3/10/2025 21:10	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:10	11904	ETEX_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
3/10/2025 21:10	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:10	43802	SWIL_T1	0	0	0	0	0	0	-0.26	-0.28	1	1	0	600	600	0
3/10/2025 21:10	13303	ORVI_T1	0	1	1	0	0	0	0.65	0.71	0	0	0	0	0	0
3/10/2025 21:10	43801	SWIL_T1	2	2	0	3.2	3.2	0	0	0	0	0	0	0	0	0
3/10/2025 21:10	67605	WARW_T1	1	0	-1	0.2	0	-0.2	-0.97	-0.99	0	0	0	0	0	0
3/10/2025 21:10	10101	ALLE_T3	2	2	0	5.7	3.4	-2.3	0	0	0	0	0	0	0	0
3/10/2025 21:10	10805	CHHI_T2	1	7	6	7.3	7.2	-0.1	-1.83	-1.86	1	1	0	1200	1200	0
3/10/2025 21:10	66504	SMAN_T2	0	0	0	0	0	0	-0.79	-0.67	0	0	0	0	0	0
3/10/2025 21:10	61801	EELI_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/10/2025 21:10	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 21:10	61802	EELI_T2	0	0	0	0	0	0	-0.4	-0.42	0	0	0	0	0	0
3/10/2025 21:10	62607	ENGL_T1	0	0	0	0	0	0	-2.3	-2.32	2	2	0	600	600	0
3/10/2025 21:10	67603	WARW_T1	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
3/10/2025 21:10	14601	SWHI_T1	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
3/10/2025 21:10	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:10	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:10	14802	TREI_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
3/10/2025 21:10	62606	ENGL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:10	16302	ALPA_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
3/10/2025 21:10	24202	PROV_T4	3	33	30	0.1	0.15	0.05	-0.9	-0.89	1	1	0	1200	1200	0
3/10/2025 21:11	63601	LETO_T1	3	5	2	0.1	0.48	0.38	0.3	0.42	1	1	0	900	900	0
3/10/2025 21:11	64201	KINZ_T1	1	1	0	1.3	1.2	-0.1	-0.49	-0.62	3	3	0	1500	1500	0
3/10/2025 21:11	44801	EDAN_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 21:11	60801	BUCK_T1	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
3/10/2025 21:11	53901	HALI_T2	1	1	0	0.2	0.5	0.3	-1.12	-1.12	0	0	0	0	0	0
3/10/2025 21:11	67605	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/10/2025 21:11	53903	HALI_T2	2	2	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
3/10/2025 21:11	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:11	42601	TUSC_T1	2	11	9	0.55	1.31	0.76	-0.61	-0.65	2	2	0	1800	1800	0
3/10/2025 21:11	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
3/10/2025 21:11	64204	KINZ_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
3/10/2025 21:11	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:11	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:11	67604	WARW_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
3/10/2025 21:11	66504	SMAN_T2	0	0	0	0	0	0	-0.79	-0.67	0	0	0	0	0	0
3/10/2025 21:11	53902	HALI_T2	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:11	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:11	21203	ECAR_T1	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
3/10/2025 21:11	20401	ASHF_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
3/10/2025 21:11	44802	EDAN_T2	0	1	1	0	0	0	-2.39	-2.42	0	0	0	0	0	0
3/10/2025 21:11	40505	CRES_T1	6	9	3	0.1	0.1	0	0.15	0.17	0	0	0	0	0	0
3/10/2025 21:11	67603	WARW_T1	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
3/10/2025 21:12	41301	FISH_T1	3	3	0	1.2	1.43	0.23	0	0	0	0	0	0	0	0
3/10/2025 21:12	21206	ECAR_T2	1	1	0	7.7	7.9	0.2	-0.24	-0.19	0	0	0	0	0	0
3/10/2025 21:12	10903	COOP_T2	6	34	28	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/10/2025 21:12	44301	BEAV_T2	2	1	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/10/2025 21:12	24902	WHHA_T1	7	6	-1	0.63	0.9	0.27	0.7	0.72	0	0	0	0	0	0
3/10/2025 21:12	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:12	54505	ENOL_T2	1	1	0	0.3	0.4	0.1	-1.43	-1.42	1	1	0	600	600	0
3/10/2025 21:12	11901	ETEX_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
3/10/2025 21:12	42903	MIDD_T2	2	0	-2	1.4	0	-1.4	0	0	0	0	0	0	0	0
3/10/2025 21:12	40101	HUNT_T2	0	0	0	0	0	0	-1.5	-1.51	0	0	0	0	0	0
3/10/2025 21:12	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:12	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:12	11904	ETEX_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
3/10/2025 21:12	44302	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:12	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:12	60801	BUCK_T1	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
3/10/2025 21:12	54502	ENOL_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:12	63501	HEID_TBK1-2	25	32	7	0.2	0.29	0.09	-0.61	-0.63	1	1	0	900	900	0
3/10/2025 21:12	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:12	64203	KINZ_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
3/10/2025 21:12	41202	KENM_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
3/10/2025 21:12	13302	ORVI_T2	0	0	0	0	0	0	1.23	1.2	0	0	0	0	0	0
3/10/2025 21:12	64201	KINZ_T1	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
3/10/2025 21:12	16402	MOPO_T1	0	0	0	0	0	0	-0.22	-0.16	0	0	0	0	0	0
3/10/2025 21:12	22602	KIMB_T1	0	1	1	0	0.1	0.1	0.11	0.11	0	0	0	0	0	0
3/10/2025 21:12	16102	BING_T2	2	7	5	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
3/10/2025 21:12	42902	MIDD_T2	0	0	0	0	0	0	-1.18	-1.15	1	1	0	600	600	0
3/10/2025 21:12	44502	HAMI_T2	1	1	0	3.6	3.4	-0.2	0.01	0.02	0	0	0	0	0	0
3/10/2025 21:12	65503	MOJO_T2	0	0	0	0	0	0	-0.28	-0.32	0	0	0	0	0	0
3/10/2025 21:12	11202	ELHE_T2	0	0	0	0	0	0	0.34	0.35	1	1	0	1200	1200	0
3/10/2025 21:12	66504	SMAN_T2	0	0	0	0	0	0	-0.79	-0.67	0	0	0	0	0	0
3/10/2025 21:12	64204	KINZ_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
3/10/2025 21:12	67605	WARW_T1	1	0	-1	0.2	0	-0.2	-1.93	-1.97	0	0	0	0	0	0
3/10/2025 21:13	46101	MACI_T2	0	0	0	0	0	0	-0.59	-0.62	1	1	0	1200	1200	0
3/10/2025 21:13	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:13	43801	SWIL_T1	2	2	0	3.2	3.2	0	0	0	0	0	0	0	0	0
3/10/2025 21:13	51101	CARL_T1	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
3/10/2025 21:13	45902	AUBU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
3/10/2025 21:13	61306	EARL_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
3/10/2025 21:13	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:13	61506	EPET_T2	0	0	0	0	0	0	-1.15	-1.11	1	1	0	900	900	0
3/10/2025 21:13	47901	HRDG_T1	0	0	0	0	0	0	0.82	0.87	0	0	0	0	0	0
3/10/2025 21:13	67605	WARW_T1	1	0	-1	0.2	0	-0.2	-0.97	-0.99	0	0	0	0	0	0
3/10/2025 21:13	45801	HEGI_T1	0	0	0	0	0	0	-1.03	-0.99	1	1	0	900	900	0
3/10/2025 21:13	40101	HUNT_T2	0	0	0	0	0	0	-1.5	-1.51	0	0	0	0	0	0
3/10/2025 21:13	40505	CRES_T1	6	9	3	0.1	0.1	0	0.15	0.17	0	0	0	0	0	0
3/10/2025 21:13	42903	MIDD_T2	2	0	-2	1.4	0	-1.4	0	0	0	0	0	0	0	0
3/10/2025 21:13	44502	HAMI_T2	1	1	0	3.6	3.4	-0.2	0	0	0	0	0	0	0	0
3/10/2025 21:13	24902	WHHA_T1	7	6	-1	0.63	0.9	0.27	0.7	0.72	0	0	0	0	0	0
3/10/2025 21:13	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:13	42902	MIDD_T2	0	0	0	0	0	0	-1.18	-1.15	1	1	0	600	600	0
3/10/2025 21:13	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:13	51107	CARL_T1	1	13	12	0.1	0.19	0.09	0	0	0	0	0	0	0	0
3/10/2025 21:13	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:13	63501	HEID_TBK1-2	25	32	7	0.2	0.29	0.09	-1.21	-1.25	2	2	0	1800	1800	0
3/10/2025 21:13	40501	CRES_T2	5	4	-1	0.16	0.18	0.02	0	0	0	0	0	0	0	0
3/10/2025 21:13	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:13	67604	WARW_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
3/10/2025 21:14	61304	EARL_T1	0	0	0	0	0	0	-0.47	-0.5	0	0	0	0	0	0
3/10/2025 21:14	40501	CRES_T2	5	4	-1	0.16	0.18	0.02	0	0	0	0	0	0	0	0
3/10/2025 21:14	10801	CHHI_T1	0	0	0	0	0	0	-1.66	-1.72	2	2	0	1500	1500	0
3/10/2025 21:14	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:14	46101	MACI_T2	0	0	0	0	0	0	-0.59	-0.62	1	1	0	1200	1200	0
3/10/2025 21:14	11904	ETEX_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:14	42903	MIDD_T2	2	0	-2	1.4	0	-1.4	0	0	0	0	0	0	0	0
3/10/2025 21:14	67604	WARW_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
3/10/2025 21:14	16302	ALPA_T2	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
3/10/2025 21:14	61801	EELI_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/10/2025 21:14	16102	BING_T2	2	7	5	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
3/10/2025 21:14	60404	DILL_T2	1	1	0	9.9	8.8	-1.1	-0.57	-0.52	1	1	0	1200	1200	0
3/10/2025 21:14	66505	SMAN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:14	42902	MIDD_T2	0	0	0	0	0	0	-1.18	-1.15	1	1	0	600	600	0
3/10/2025 21:14	62105	ELAN_T1	0	0	0	0	0	0	0.32	0.32	0	0	0	0	0	0
3/10/2025 21:14	10903	COOP_T2	6	34	28	0.1	0.17	0.07	-0.49	-0.49	1	1	0	600	600	0
3/10/2025 21:14	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/10/2025 21:14	15203	SFAR_T2	0	0	0	0	0	0	-1.45	-1.45	0	0	0	0	0	0
3/10/2025 21:14	16103	BING_T2	0	0	0	0	0	0	-0.59	-0.56	1	1	0	900	900	0
3/10/2025 21:14	65205	PRIN_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:14	67605	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/10/2025 21:14	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:14	45501	DERR_T2	0	1	1	0	0.6	0.6	-0.21	-0.5	2	2	0	1800	1800	0
3/10/2025 21:14	63202	MGTN_T2	1	1	0	3.3	0	-3.3	0.69	0.74	0	0	0	0	0	0
3/10/2025 21:14	64201	KINZ_T1	1	1	0	1.2	0.4	-0.8	-0.49	-0.62	3	3	0	1500	1500	0
3/10/2025 21:15	40501	CRES_T2	1	11	10	0.1	0.24	0.14	0	0	0	0	0	0	0	0
3/10/2025 21:15	24901	WHHA_T1	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
3/10/2025 21:15	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:15	54502	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 21:15	54501	ENOL_T2	0	0	0	0	0	0	-0.61	-0.6	1	1	0	600	600	0
3/10/2025 21:15	43402	BENT_T1	0	0	0	0	0	0	-1.05	-1.05	1	1	0	900	900	0
3/10/2025 21:15	64204	KINZ_T1	1	1	0	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
3/10/2025 21:15	67402	WAKE_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
3/10/2025 21:15	20603	GRWO_T2	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
3/10/2025 21:15	54505	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/10/2025 21:15	40505	CRES_T1	2	9	7	0.1	0.1	0	0.15	0.17	0	0	0	0	0	0
3/10/2025 21:15	42903	MIDD_T2	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
3/10/2025 21:15	20403	ASHF_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
3/10/2025 21:15	46101	MACI_T2	0	0	0	0	0	0	-0.59	-0.62	1	1	0	1200	1200	0
3/10/2025 21:15	40702	FFLD_T1	0	0	0	0	0	0	-1.77	-1.7	1	1	0	1200	1200	0
3/10/2025 21:15	24902	WHHA_T1	4	4	0	0.58	0.78	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/10/2025 21:15	61301	EARL_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
3/10/2025 21:15	45501	DERR_T2	1	1	0	0.1	0.6	0.5	-0.21	-0.5	2	2	0	1800	1800	0
3/10/2025 21:15	60801	BUCK_T1	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
3/10/2025 21:15	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
3/10/2025 21:16	63501	HEID_TBK1-2	23	36	13	0.21	0.65	0.44	-1.21	-1.25	2	2	0	1800	1800	0
3/10/2025 21:16	15203	SFAR_T2	0	0	0	0	0	0	-1.45	-1.45	0	0	0	0	0	0
3/10/2025 21:16	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:16	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:16	64204	KINZ_T1	1	1	0	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
3/10/2025 21:16	28805	LAKE_T1	0	0	0	0	0	0	-0.27	-0.26	0	0	0	0	0	0
3/10/2025 21:16	67601	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:16	20403	ASHF_T2	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
3/10/2025 21:16	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:16	40501	CRES_T2	1	11	10	0.1	0.24	0.14	0	0	0	0	0	0	0	0
3/10/2025 21:16	45501	DERR_T2	1	1	0	0.1	0.6	0.5	-0.21	-0.5	2	2	0	1800	1800	0
3/10/2025 21:16	46803	HEPB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:16	62606	ENGL_T1	0	0	0	0	0	0	-1.62	-1.64	1	1	0	900	900	0
3/10/2025 21:16	51901	COPA_T1	0	4	4	0	0.1	0.1	-1.58	-1.59	1	1	0	1200	1200	0
3/10/2025 21:16	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:16	63601	LETO_T1	5	5	0	0.44	0.54	0.1	0.3	0.42	1	1	0	900	900	0
3/10/2025 21:16	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:16	10801	CHHI_T1	0	0	0	0	0	0	-1.66	-1.72	2	2	0	1500	1500	0
3/10/2025 21:16	51904	COPA_T1	5	5	0	0.78	0.94	0.16	0	0	0	0	0	0	0	0
3/10/2025 21:16	62605	ENGL_T1	0	0	0	0	0	0	-0.91	-0.9	0	0	0	0	0	0
3/10/2025 21:16	14603	SWHI_T1	0	0	0	0	0	0	-2.16	-2.16	2	2	0	1200	1200	0
3/10/2025 21:16	44801	EDAN_T2	0	1	1	0	0	0	-0.54	-0.54	0	0	0	0	0	0
3/10/2025 21:16	60502	NMAN_T2	0	0	0	0	0	0	-0.63	-0.58	0	0	0	0	0	0
3/10/2025 21:16	67402	WAKE_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
3/10/2025 21:16	47401	PENS_T1	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
3/10/2025 21:16	65503	MOJO_T2	0	0	0	0	0	0	-0.28	-0.32	0	0	0	0	0	0
3/10/2025 21:16	64201	KINZ_T1	1	1	0	1.2	0.4	-0.8	0	0	0	0	0	0	0	0
3/10/2025 21:16	17002	RIRO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:16	11904	ETEX_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
3/10/2025 21:16	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:16	67605	WARW_T1	0	2	2	0	0.1	0.1	-0.97	-0.99	0	0	0	0	0	0
3/10/2025 21:16	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	-0.11	0.06	1	1	0	600	600	0
3/10/2025 21:16	14802	TREI_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
3/10/2025 21:16	62607	ENGL_T1	0	0	0	0	0	0	-1.15	-1.16	1	1	0	300	300	0
3/10/2025 21:17	52403	GRPA_T2	12	9	-3	0.4	0.47	0.07	0	0	0	0	0	0	0	0
3/10/2025 21:17	52402	GRPA_T2	11	6	-5	0.85	1.52	0.67	0	0	0	0	0	0	0	0
3/10/2025 21:17	58102	NEKI_T1	1	2	1	1.5	0.85	-0.65	-1.36	-1.35	1	1	0	1200	1200	0
3/10/2025 21:17	64203	KINZ_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
3/10/2025 21:17	54502	ENOL_T2	1	1	0	1.1	0.1	0	0	0	0	0	0	0	0	0
3/10/2025 21:17	61001	DONV_T1	0	0	0	0	0	0	-0.36	-0.41	0	0	0	0	0	0
3/10/2025 21:17	62601	ENGL_T1	0	0	0	0	0	0	-0.13	-0.1	0	0	0	0	0	0
3/10/2025 21:17	52401	GRPA_T2	1	78	77	0.7	0.21	-0.49	-0.71	-0.71	0	0	0	0	0	0
3/10/2025 21:17	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
3/10/2025 21:17	44502	HAMI_T2	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
3/10/2025 21:17	61801	EELI_T2	1	2	1	0.6	0.6	0	-1.22	-1.19	1	1	0	600	600	0
3/10/2025 21:17	51904	COPA_T1	5	5	0	0.78	0.94	0.16	-1.12	-1.12	2	2	0	1200	1200	0
3/10/2025 21:17	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
3/10/2025 21:17	53901	HALI_T2	1	1	0	0.4	0.6	0.2	-1.12	-1.12	0	0	0	0	0	0
3/10/2025 21:17	54505	ENOL_T2	1	1	0	0.4	0.4	0	-1.43	-1.42	1	1	0	600	600	0
3/10/2025 21:17	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 21:17	41002	LAUR_T2	1	1	0	1.5	2.2	0.7	-1	-1	0	0	0	0	0	0
3/10/2025 21:17	44505	HAMI_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
3/10/2025 21:17	64201	KINZ_T1	1	1	0	1.2	0.4	-0.8	0	0	0	0	0	0	0	0
3/10/2025 21:17	64101	REFR_T1	0	0	0	0	0	0	-0.66	-0.69	0	0	0	0	0	0
3/10/2025 21:17	66504	SMAN_T2	0	0	0	0	0	0	-0.79	-0.67	0	0	0	0	0	0
3/10/2025 21:17	67401	WAKE_T2	0	0	0	0	0	0	-2.56	-1.96	0	0	0	0	0	0
3/10/2025 21:17	40101	HUNT_T2	0	0	0	0	0	0	-1.5	-1.51	0	0	0	0	0	0
3/10/2025 21:17	53903	HALI_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 21:17	64204	KINZ_T1	1	1	0	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
3/10/2025 21:17	66505	SMAN_T2	3	3	0	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/10/2025 21:17	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:17	52404	GRPA_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:17	44201	POIN_T1	12	34	22	0.11	0.13	0.02	-1.96	-1.99	2	2	0	2100	2100	0
3/10/2025 21:17	54504	ENOL_T2	0	0	0	0	0	0	-1.15	-1.16	1	1	0	600	600	0
3/10/2025 21:17	46504	LOHA_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/10/2025 21:17	60801	BUCK_T1	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
3/10/2025 21:17	44802	EDAN_T2	0	0	0	0	0	0	-2.39	-2.42	0	0	0	0	0	0
3/10/2025 21:17	51901	COPA_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 21:17	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:17	46504	LOHA_T1	3	4	1	3.7	3.13	-0.57	0	0	0	0	0	0	0	0
3/10/2025 21:18	53903	HALI_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 21:18	65502	MOJO_T2	0	0	0	0	0	0	-1.98	-1.98	1	1	0	900	900	0
3/10/2025 21:18	40505	CRES_T1	2	9	7	0.1	0.1	0	0.3	0.34	0	0	0	0	0	0
3/10/2025 21:18	44201	POIN_T1	12	34	22	0.11	0.13	0.02	-1.96	-1.99	2	2	0	2100	2100	0
3/10/2025 21:18	42902	MIDD_T2	0	0	0	0	0	0	-1.18	-1.15	1	1	0	600	600	0
3/10/2025 21:18	61801	EELI_T2	1	2	1	0.6	0.6	0	0	0	0	0	0	0	0	0
3/10/2025 21:18	54501	ENOL_T2	0	0	0	0	0	0	-0.61	-0.6	1	1	0	600	600	0
3/10/2025 21:18	53901	HALI_T2	1	1	0	0.4	0.6	0.2	-1.12	-1.12	0	0	0	0	0	0
3/10/2025 21:18	57402	SPAN_T2	0	0	0	0	0	0	-1.29	-1.28	0	0	0	0	0	0
3/10/2025 21:18	67503	WEWI_T2	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
3/10/2025 21:18	66502	SMAN_T2	0	0	0	0	0	0	-0.13	-0.24	0	0	0	0	0	0
3/10/2025 21:18	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
3/10/2025 21:18	52402	GRPA_T2	11	6	-5	0.85	1.52	0.67	0	0	0	0	0	0	0	0
3/10/2025 21:18	66504	SMAN_T2	0	0	0	0	0	0	-0.79	-0.67	0	0	0	0	0	0
3/10/2025 21:18	41301	FISH_T1	3	3	0	1.4	1.57	0.17	-0.78	-0.8	0	0	0	0	0	0
3/10/2025 21:18	10801	CHHI_T1	0	0	0	0	0	0	-1.66	-1.72	2	2	0	1500	1500	0
3/10/2025 21:18	54505	ENOL_T2	1	1	0	0.4	0.4	0	-1.43	-1.42	1	1	0	600	600	0
3/10/2025 21:18	52401	GRPA_T2	1	78	77	0.7	0.21	-0.49	-0.71	-0.71	0	0	0	0	0	0
3/10/2025 21:18	20403	ASHF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:18	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/10/2025 21:18	52502	PROG_T2	0	0	0	0	0	0	0.19	0.16	0	0	0	0	0	0
3/10/2025 21:18	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:18	61803	EELI_T2	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
3/10/2025 21:18	66505	SMAN_T2	3	3	0	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/10/2025 21:18	67502	WEWI_T2	151	133	-18	0.23	0.19	-0.04	0	0	0	0	0	0	0	0
3/10/2025 21:18	47403	PENS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:18	64202	KINZ_T1	0	0	0	0	0	0	0.62	0.57	0	0	0	0	0	0
3/10/2025 21:18	20601	GRWO_T2	0	0	0	0	0	0	-0.01	0.02	0	0	0	0	0	0
3/10/2025 21:18	45501	DERR_T2	1	1	0	0.1	0.6	0.5	-0.21	-0.5	2	2	0	1800	1800	0
3/10/2025 21:18	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 21:18	14603	SWHI_T1	0	0	0	0	0	0	-1.08	-1.08	1	1	0	600	600	0
3/10/2025 21:18	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:18	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:18	64201	KINZ_T1	1	1	0	1.2	0.4	-0.8	0	0	0	0	0	0	0	0
3/10/2025 21:18	46801	HEPB_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
3/10/2025 21:18	64204	KINZ_T1	1	1	0	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
3/10/2025 21:18	52404	GRPA_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:18	54502	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 21:18	54503	ENOL_T2	0	0	0	0	0	0	-0.48	-0.49	1	1	0	600	600	0
3/10/2025 21:18	52403	GRPA_T2	12	9	-3	0.4	0.47	0.07	0	0	0	0	0	0	0	0
3/10/2025 21:18	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
3/10/2025 21:18	67605	WARW_T1	0	2	2	0	0.1	0.1	-0.97	-0.99	0	0	0	0	0	0
3/10/2025 21:18	63501	HEID_TBK1-2	23	36	13	0.21	0.65	0.44	-0.61	-0.63	1	1	0	900	900	0
3/10/2025 21:18	44302	BEAV_T2	0	0	0	0	0	0	0.18	0.18	0	0	0	0	0	0
3/10/2025 21:19	20601	GRWO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:19	53903	HALI_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 21:19	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:19	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:19	40601	PIGR_T1	0	0	0	0	0	0	-0.85	-0.91	0	0	0	0	0	0
3/10/2025 21:19	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:19	57401	SPAN_T1	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
3/10/2025 21:19	46803	HEPB_T2	0	0	0	0	0	0	0.4	0.41	0	0	0	0	0	0
3/10/2025 21:19	44802	EDAN_T2	0	0	0	0	0	0	-2.39	-2.42	0	0	0	0	0	0
3/10/2025 21:19	57403	SPAN_T1	26	99	73	0.24	0.25	0.01	-0.07	-0.09	0	0	0	0	0	0
3/10/2025 21:19	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:19	40501	CRES_T2	1	11	10	0.1	0.24	0.14	0	0	0	0	0	0	0	0
3/10/2025 21:19	52501	PROG_T1	0	0	0	0	0	0	0.2	0.25	3	3	0	900	900	0
3/10/2025 21:19	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
3/10/2025 21:19	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:19	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:19	54601	SUMM_T2	5	5	0	0.34	0.48	0.14	-2	-2.01	2	2	0	2100	2100	0
3/10/2025 21:19	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:19	44505	HAMI_T2	0	0	0	0	0	0	-0.26	-0.25	0	0	0	0	0	0
3/10/2025 21:19	42902	MIDD_T2	0	0	0	0	0	0	-2.36	-2.29	2	2	0	1200	1200	0
3/10/2025 21:19	44502	HAMI_T2	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
3/10/2025 21:19	67402	WAKE_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
3/10/2025 21:19	46801	HEPB_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
3/10/2025 21:19	53901	HALI_T2	1	1	0	0.4	0.6	0.2	-1.12	-1.12	0	0	0	0	0	0
3/10/2025 21:20	52402	GRPA_T2	11	6	-5	0.85	1.52	0.67	0	0	0	0	0	0	0	0
3/10/2025 21:20	64101	REFR_T1	0	0	0	0	0	0	-0.44	-0.46	0	0	0	0	0	0
3/10/2025 21:20	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:20	67605	WARW_T1	0	2	2	0	0.1	0.1	-0.97	-0.99	0	0	0	0	0	0
3/10/2025 21:20	57403	SPAN_T1	26	99	73	0.24	0.25	0.01	-0.07	-0.09	0	0	0	0	0	0
3/10/2025 21:20	44802	EDAN_T2	0	0	0	0	0	0	-2.39	-2.42	0	0	0	0	0	0
3/10/2025 21:20	52401	GRPA_T2	1	78	77	0.7	0.21	-0.49	0	0	0	0	0	0	0	0
3/10/2025 21:20	44801	EDAN_T2	0	1	1	0	0	0	-0.54	-0.54	0	0	0	0	0	0
3/10/2025 21:20	54505	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/10/2025 21:20	14601	SWHI_T1	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
3/10/2025 21:20	62606	ENGL_T1	0	0	0	0	0	0	-1.62	-1.64	1	1	0	900	900	0
3/10/2025 21:20	67401	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:20	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:20	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:20	60801	BUCK_T1	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
3/10/2025 21:20	54502	ENOL_T2	1	1	0	1	1.1	0.1	-2.08	-2.06	1	1	0	600	600	0
3/10/2025 21:20	52404	GRPA_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:20	52403	GRPA_T2	12	9	-3	0.4	0.47	0.07	-0.64	-0.64	0	0	0	0	0	0
3/10/2025 21:20	46001	BERW_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
3/10/2025 21:20	57401	SPAN_T1	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
3/10/2025 21:20	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/10/2025 21:21	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:21	57403	SPAN_T1	26	99	73	0.24	0.25	0.01	0	0	0	0	0	0	0	0
3/10/2025 21:21	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
3/10/2025 21:21	45501	DERR_T2	1	1	0	0.1	0.6	0.5	-0.5	-0.61	2	2	0	1800	1800	0
3/10/2025 21:21	57401	SPAN_T1	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0	0
3/10/2025 21:21	53901	HALI_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:21	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:21	52404	GRPA_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:21	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:21	52403	GRPA_T2	12	9	-3	0.4	0.47	0.07	0	0	0	0	0	0	0	0
3/10/2025 21:21	58701	ROSE_T2	0	0	0	0	0	0	-0.35	-0.35	1	1	0	600	600	0
3/10/2025 21:21	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:21	67605	WARW_T1	0	2	2	0	0.1	0.1	-0.97	-0.99	0	0	0	0	0	0
3/10/2025 21:21	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0.06	0.08	1	1	0	600	600	0
3/10/2025 21:21	53501	EVIL_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/10/2025 21:21	64101	REFR_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
3/10/2025 21:21	42902	MIDD_T2	0	0	0	0	0	0	-2.29	-2.26	2	2	0	1200	1200	0
3/10/2025 21:21	44802	EDAN_T2	0	0	0	0	0	0	-2.42	-2.42	0	0	0	0	0	0
3/10/2025 21:21	46803	HEPB_T2	0	0	0	0	0	0	0.41	0.41	0	0	0	0	0	0
3/10/2025 21:21	40901	JESH_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/10/2025 21:21	46001	BERW_T1	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
3/10/2025 21:21	61301	EARL_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
3/10/2025 21:21	52402	GRPA_T2	11	6	-5	0.85	1.52	0.67	0	0	0	0	0	0	0	0
3/10/2025 21:21	52401	GRPA_T2	1	78	77	0.7	0.21	-0.49	0	0	0	0	0	0	0	0
3/10/2025 21:21	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:21	53903	HALI_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 21:22	54505	ENOL_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/10/2025 21:22	52404	GRPA_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:22	53903	HALI_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 21:22	54504	ENOL_T2	0	0	0	0	0	0	-1.16	-1.15	1	1	0	600	600	0
3/10/2025 21:22	52102	MEIS_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
3/10/2025 21:22	52403	GRPA_T2	12	9	-3	0.4	0.47	0.07	-0.64	-0.65	0	0	0	0	0	0
3/10/2025 21:22	52101	MEIS_T1	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
3/10/2025 21:22	58401	MORO_T1	0	0	0	0	0	0	-2.68	-2.72	2	2	0	1200	1200	0
3/10/2025 21:22	44302	BEAV_T2	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
3/10/2025 21:22	57505	LAWN_T3	0	0	0	0	0	0	0.39	0.37	0	0	0	0	0	0
3/10/2025 21:22	65802	RTWN_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
3/10/2025 21:22	53501	EVIL_T2	1	2	1	0.5	0.4	-0.1	-0.79	-0.81	1	1	0	600	600	0
3/10/2025 21:22	55002	NEWP_T1	6	5	-1	0.9	1.02	0.12	0	0	0	0	0	0	0	0
3/10/2025 21:22	53902	HALI_T2	1	1	0	5.2	5.3	0.1	-0.31	-0.32	0	0	0	0	0	0
3/10/2025 21:22	45501	DERR_T2	1	1	0	0.1	0.6	0.5	-0.5	-0.61	2	2	0	1800	1800	0
3/10/2025 21:22	42903	MIDD_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
3/10/2025 21:22	52401	GRPA_T2	1	78	77	0.7	0.21	-0.49	0	0	0	0	0	0	0	0
3/10/2025 21:22	63501	HEID_TBK1-2	23	36	13	0.21	0.65	0.44	-0.63	-0.62	1	1	0	900	900	0
3/10/2025 21:22	42902	MIDD_T2	0	0	0	0	0	0	-1.15	-1.13	1	1	0	600	600	0
3/10/2025 21:22	14802	TREI_T2	0	0	0	0	0	0	0.27	0.23	0	0	0	0	0	0
3/10/2025 21:22	55001	NEWP_T1	0	1	1	0	0.2	0.2	-0.46	-0.44	0	0	0	0	0	0
3/10/2025 21:22	53901	HALI_T2	1	1	0	0.4	0.6	0.2	-1.12	-1.1	0	0	0	0	0	0
3/10/2025 21:22	54502	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 21:22	52402	GRPA_T2	11	6	-5	0.85	1.52	0.67	0	0	0	0	0	0	0	0
3/10/2025 21:22	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 21:23	66505	SMAN_T2	3	3	0	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/10/2025 21:23	44801	EDAN_T2	0	1	1	0	0	0	-0.54	-0.55	0	0	0	0	0	0
3/10/2025 21:23	46506	LOHA_T1	3	4	1	3.7	3.13	-0.57	0	0	0	0	0	0	0	0
3/10/2025 21:23	53501	EVIL_T2	1	2	1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/10/2025 21:23	64101	REFR_T1	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
3/10/2025 21:23	46504	LOHA_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/10/2025 21:23	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:23	61304	EARL_T1	0	0	0	0	0	0	-0.5	-0.49	0	0	0	0	0	0
3/10/2025 21:23	46801	HEPB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:23	67402	WAKE_T2	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
3/10/2025 21:23	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
3/10/2025 21:23	47203	FAXO_T2	0	0	0	0	0	0	-1.81	-1.82	1	1	0	1200	1200	0
3/10/2025 21:24	67605	WARW_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 21:24	53901	HALI_T2	1	1	0	0.4	0.6	0.2	-1.12	-1.1	0	0	0	0	0	0
3/10/2025 21:24	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:24	66505	SMAN_T2	3	3	0	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/10/2025 21:24	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:24	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
3/10/2025 21:24	44802	EDAN_T2	0	0	0	0	0	0	-2.42	-2.42	0	0	0	0	0	0
3/10/2025 21:24	58401	MORO_T1	0	0	0	0	0	0	-4.02	-4.08	3	3	0	1800	1800	0
3/10/2025 21:24	53903	HALI_T2	2	2	0	1	1.1	0.1	-0.21	-0.21	0	0	0	0	0	0
3/10/2025 21:24	58402	MORO_T1	0	0	0	0	0	0	-0.27	-0.25	2	2	0	1500	1500	0
3/10/2025 21:24	66504	SMAN_T2	0	0	0	0	0	0	-0.67	-0.7	0	0	0	0	0	0
3/10/2025 21:25	45501	DERR_T2	1	1	0	0.1	0.6	0.5	-0.5	-0.61	2	2	0	1800	1800	0
3/10/2025 21:26	64101	REFR_T1	0	0	0	0	0	0	-0.23	-0.24	0	0	0	0	0	0
3/10/2025 21:27	44302	BEAV_T2	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
3/10/2025 21:27	52402	GRPA_T2	11	6	-5	0.85	1.52	0.67	0	0	0	0	0	0	0	0
3/10/2025 21:27	53902	HALI_T2	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
3/10/2025 21:27	53901	HALI_T2	1	1	0	0.4	0.6	0.2	-2.24	-2.2	0	0	0	0	0	0
3/10/2025 21:27	44301	BEAV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/10/2025 21:27	55002	NEWP_T1	6	5	-1	0.9	1.02	0.12	0	0	0	0	0	0	0	0
3/10/2025 21:27	55001	NEWP_T1	0	1	1	0	0.2	0.2	-0.46	-0.44	0	0	0	0	0	0
3/10/2025 21:27	52404	GRPA_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
3/10/2025 21:27	52403	GRPA_T2	12	9	-3	0.4	0.47	0.07	0	0	0	0	0	0	0	0
3/10/2025 21:27	52401	GRPA_T2	1	78	77	0.7	0.21	-0.49	0	0	0	0	0	0	0	0
3/10/2025 21:27	53903	HALI_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/10/2025 21:29	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:29	44502	HAMI_T2	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
3/10/2025 21:30	16102	BING_T2	7	16	9	0.23	0.29	0.06	0	0	0	0	0	0	0	0
3/10/2025 21:31	61306	EARL_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
3/10/2025 21:32	47901	HRDG_T1	0	0	0	0	0	0	0.87	0.97	0	0	0	0	0	0
3/10/2025 21:33	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:39	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2025 21:54	62607	ENGL_T1	0	0	0	0	0	0	-1.19	-1.18	1	1	0	300	300	0
3/10/2025 22:01	52502	PROG_T2	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
3/10/2025 22:25	52504	PROG_T1	1	0	-1	8.4	0	-8.4	0	0	0	0	0	0	0	0
3/10/2025 22:25	52501	PROG_T1	0	0	0	0	0	0	0.02	0	1	1	0	300	300	0
3/10/2025 22:50	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 0:02	11203	ELHE_T1	0	0	0	0	0	0	0.68	0.69	0	0	0	0	0	0
3/11/2025 0:02	11205	ELHE_T1	48	63	15	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/11/2025 0:04	45801	HEGI_T1	0	0	0	0	0	0	-1.03	-0.45	1	1	0	900	900	0
3/11/2025 1:08	51003	NHAR_T1	1	1	0	6.8	6.6	-0.2	0	0	0	0	0	0	0	0
3/11/2025 1:08	51002	NHAR_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/11/2025 1:08	51004	NHAR_T1	2	2	0	5.75	5.45	-0.3	0	0	0	0	0	0	0	0
3/11/2025 1:33	60404	DILL_T2	6	0	-6	0.57	0	-0.57	0.7	0.62	0	0	0	0	0	0
3/11/2025 4:07	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/11/2025 7:09	20401	ASHF_T2	4	4	0	0.65	0.53	-0.12	0.37	0.4	0	0	0	0	0	0
3/11/2025 7:59	53502	EVIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/11/2025 7:59	53501	EVIL_T2	2	2	0	0.75	1.95	1.2	0	0	0	0	0	0	0	0
3/11/2025 8:02	23401	HONE_T2	30	48	18	0.39	0.38	-0.01	-0.14	-0.13	0	0	0	0	0	0
3/11/2025 8:07	67204	TEHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 8:08	14801	TREI_T2	0	2	2	0	0.2	0.2	0.51	0.47	0	0	0	0	0	0
3/11/2025 8:09	46206	DANV_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
3/11/2025 8:09	67001	STHI_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/11/2025 8:09	67002	STHI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 8:09	46204	DANV_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
3/11/2025 8:09	46203	DANV_T2	54	188	134	0.28	0.68	0.4	-0.98	-0.99	0	0	0	0	0	0
3/11/2025 8:10	53601	DALM_T2	1	1	0	0.2	1.2	1	0.17	0.31	0	0	0	0	0	0
3/11/2025 8:11	40504	CRES_T1	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
3/11/2025 8:12	46206	DANV_T2	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
3/11/2025 8:12	46204	DANV_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
3/11/2025 8:12	10705	CATA_T2	0	0	0	0	0	0	-0.95	-0.97	1	1	0	900	900	0
3/11/2025 8:12	46203	DANV_T2	54	188	134	0.28	0.68	0.4	-0.98	-0.99	0	0	0	0	0	0
3/11/2025 8:14	40505	CRES_T1	0	0	0	0	0	0	0.32	0.29	0	0	0	0	0	0
3/11/2025 8:14	46204	DANV_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
3/11/2025 8:14	46206	DANV_T2	1	1	0	0.1	0.6	0.5	2.56	2.6	1	1	0	1200	1200	0
3/11/2025 8:14	46203	DANV_T2	54	188	134	0.28	0.68	0.4	0	0	0	0	0	0	0	0
3/11/2025 8:18	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/11/2025 8:18	54502	ENOL_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
3/11/2025 8:18	54506	ENOL_T2	0	0	0	0	0	0	-1.4	-0.09	1	1	0	600	600	0
3/11/2025 8:19	58302	NOTT_T1	0	0	0	0	0	0	-1.11	-1.12	2	2	0	2100	2100	0
3/11/2025 8:20	52502	PROG_T2	0	0	0	0	0	0	-0.58	-0.55	1	1	0	900	900	0
3/11/2025 8:20	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 8:20	67001	STHI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/11/2025 8:20	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 8:20	55002	NEWP_T1	5	6	1	0.7	0.73	0.03	-0.23	-0.23	0	0	0	0	0	0
3/11/2025 8:20	67002	STHI_T2	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
3/11/2025 8:21	67002	STHI_T2	0	0	0	0	0	0	1.08	1.08	0	0	0	0	0	0
3/11/2025 8:21	52502	PROG_T2	0	0	0	0	0	0	-0.58	-0.55	1	1	0	900	900	0
3/11/2025 8:21	67001	STHI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/11/2025 8:22	55002	NEWP_T1	5	6	1	0.7	0.73	0.03	-0.23	-0.24	0	0	0	0	0	0
3/11/2025 8:22	67002	STHI_T2	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
3/11/2025 8:22	67001	STHI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/11/2025 8:22	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 8:22	65702	RVIL_T2	0	0	0	0	0	0	-1.56	-1.59	1	1	0	600	600	0
3/11/2025 8:25	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 8:25	67001	STHI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/11/2025 8:28	61304	EARL_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 8:28	61306	EARL_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
3/11/2025 8:29	61304	EARL_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 8:30	61306	EARL_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
3/11/2025 8:30	61304	EARL_T1	4	6	2	0.1	0.1	0	-0.09	-0.04	0	0	0	0	0	0
3/11/2025 8:35	65702	RVIL_T2	0	0	0	0	0	0	-1.56	-1.59	1	1	0	600	600	0
3/11/2025 8:36	15203	SFAR_T2	0	63	63	0	0.17	0.17	-2.78	-2.78	0	0	0	0	0	0
3/11/2025 8:36	65702	RVIL_T2	0	0	0	0	0	0	-3.18	-3.15	2	2	0	1200	1200	0
3/11/2025 8:38	15204	SFAR_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
3/11/2025 8:38	15203	SFAR_T2	0	63	63	0	0.17	0.17	-1.39	-1.39	0	0	0	0	0	0
3/11/2025 8:39	40501	CRES_T2	9	7	-2	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
3/11/2025 8:40	15204	SFAR_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
3/11/2025 8:40	40501	CRES_T2	9	7	-2	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
3/11/2025 8:40	15203	SFAR_T2	0	63	63	0	0.17	0.17	-1.39	-1.39	0	0	0	0	0	0
3/11/2025 8:41	61304	EARL_T1	4	6	2	0.1	0.1	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/11/2025 8:42	61301	EARL_T1	0	0	0	0	0	0	-0.38	0.24	1	0	-1	900	0	-900
3/11/2025 8:42	61304	EARL_T1	4	6	2	0.1	0.1	0	-0.09	-0.07	0	0	0	0	0	0
3/11/2025 8:42	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.38	0.41	2	2	0	1800	1800	0
3/11/2025 8:43	40501	CRES_T2	9	7	-2	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
3/11/2025 8:43	53501	EVIL_T2	2	2	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/11/2025 8:43	61304	EARL_T1	4	6	2	0.1	0.1	0	-0.04	-0.04	0	0	0	0	0	0
3/11/2025 8:43	52401	GRPA_T2	1	1	0	0.6	0.1	-0.5	-0.59	-0.68	0	0	0	0	0	0
3/11/2025 8:43	52404	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/11/2025 8:43	52402	GRPA_T2	5	10	5	1.34	0.74	-0.6	0	0	0	0	0	0	0	0
3/11/2025 8:43	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.38	0.41	2	2	0	1800	1800	0
3/11/2025 8:43	52403	GRPA_T2	10	20	10	0.46	0.71	0.25	0	0	0	0	0	0	0	0
3/11/2025 8:43	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 8:47	23401	HONE_T2	6	9	3	0.47	0	-0.47	-0.12	-0.14	0	0	0	0	0	0
3/11/2025 8:48	58201	NEWV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 8:50	57203	ROSS_T1	0	0	0	0	0	0	-0.25	-0.33	0	0	0	0	0	0
3/11/2025 8:50	24201	PROV_T3	3	3	0	5.87	5.6	-0.27	-0.2	-0.26	0	0	0	0	0	0
3/11/2025 8:50	24204	PROV_T3	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
3/11/2025 8:51	57203	ROSS_T1	0	0	0	0	0	0	-0.25	-0.33	0	0	0	0	0	0
3/11/2025 8:52	57203	ROSS_T1	0	0	0	0	0	0	-0.33	-0.33	0	0	0	0	0	0
3/11/2025 8:52	15203	SFAR_T2	8	80	72	0.18	0.19	0.01	-2.78	-2.78	0	0	0	0	0	0
3/11/2025 8:52	15204	SFAR_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
3/11/2025 8:54	15203	SFAR_T2	8	80	72	0.18	0.19	0.01	-1.39	-1.39	0	0	0	0	0	0
3/11/2025 8:54	14802	TREI_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 8:54	14801	TREI_T2	4	5	1	0.13	0.18	0.05	0.42	0.39	0	0	0	0	0	0
3/11/2025 8:57	41802	GOCI_T2	0	14	14	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 8:57	41801	GOCI_T2	1	100	99	0.1	0.24	0.14	0	0	0	0	0	0	0	0
3/11/2025 8:58	61304	EARL_T1	5	109	104	0.1	0.2	0.1	-0.04	-0.08	0	0	0	0	0	0
3/11/2025 8:58	61306	EARL_T1	0	19	19	0	0.15	0.15	0	0	0	0	0	0	0	0
3/11/2025 9:00	63501	HEID_TBK1-2	2	1	-1	0.3	0.1	-0.2	0.22	0.2	1	1	0	900	900	0
3/11/2025 9:00	46505	LOHA_T1	0	0	0	0	0	0	-0.3	-0.28	1	1	0	600	600	0
3/11/2025 9:00	46506	LOHA_T1	4	4	0	3.58	3.83	0.25	0	0	0	0	0	0	0	0
3/11/2025 9:00	46504	LOHA_T1	2	2	0	1	0.55	-0.45	0	0	0	0	0	0	0	0
3/11/2025 9:00	21203	ECAR_T1	0	0	0	0	0	0	-0.29	-0.26	0	0	0	0	0	0
3/11/2025 9:01	54503	ENOL_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 9:01	54502	ENOL_T2	1	1	0	1.2	1.4	0.2	-2.12	-2.11	1	1	0	600	600	0
3/11/2025 9:01	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/11/2025 9:01	63501	HEID_TBK1-2	2	1	-1	0.3	0.1	-0.2	0.44	0.4	2	2	0	1800	1800	0
3/11/2025 9:06	65702	RVIL_T2	0	0	0	0	0	0	-1.55	-0.9	1	1	0	600	600	0
3/11/2025 9:07	65702	RVIL_T2	0	0	0	0	0	0	-1.55	-0.9	1	0	-1	600	0	-600
3/11/2025 9:09	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 9:09	40501	CRES_T2	3	9	6	0.17	0.24	0.07	0	0	0	0	0	0	0	0
3/11/2025 9:10	46001	BERW_T1	0	0	0	0	0	0	0.82	0.91	0	0	0	0	0	0
3/11/2025 9:11	53501	EVIL_T2	2	14	12	0.6	0.85	0.25	-0.34	-0.17	1	1	0	600	600	0
3/11/2025 9:11	40505	CRES_T1	0	0	0	0	0	0	0.26	0.22	0	0	0	0	0	0
3/11/2025 9:12	41301	FISH_T1	2	2	0	2.1	2.15	0.05	-0.38	-0.37	0	0	0	0	0	0
3/11/2025 9:13	41304	FISH_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 9:13	41301	FISH_T1	2	2	0	2.1	2.15	0.05	-0.38	-0.37	0	0	0	0	0	0
3/11/2025 9:13	46001	BERW_T1	0	0	0	0	0	0	0.82	0.91	0	0	0	0	0	0
3/11/2025 9:15	24102	EHAZ_T1	1	1	0	2.6	2	-0.6	0	0	0	0	0	0	0	0
3/11/2025 9:15	24105	EHAZ_T1	4	4	0	5.68	5.6	-0.08	0	0	0	0	0	0	0	0
3/11/2025 9:15	41802	GOCI_T2	14	24	10	0.2	0.27	0.07	0	0	0	0	0	0	0	0
3/11/2025 9:15	41801	GOCI_T2	99	215	116	0.24	0.49	0.25	0	0	0	0	0	0	0	0
3/11/2025 9:15	24104	EHAZ_T1	0	0	0	0	0	0	-2.24	-2.24	1	1	0	1200	1200	0
3/11/2025 9:15	24101	EHAZ_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/11/2025 9:16	41802	GOCI_T2	14	24	10	0.2	0.27	0.07	0	0	0	0	0	0	0	0
3/11/2025 9:16	50506	MECH_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
3/11/2025 9:16	41801	GOCI_T2	99	215	116	0.24	0.49	0.25	0	0	0	0	0	0	0	0
3/11/2025 9:16	50502	MECH_T1	1	1	0	1.3	1.7	0.4	0	0	0	0	0	0	0	0
3/11/2025 9:20	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 9:20	65901	SAKR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 9:20	57205	ROSS_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/11/2025 9:20	65903	SAKR_T2	0	0	0	0	0	0	-1.37	-1.24	3	3	0	2100	2100	0
3/11/2025 9:20	47104	MARL_T1	0	0	0	0	0	0	-2.2	-2.21	0	0	0	0	0	0
3/11/2025 9:21	65904	SAKR_T2	0	0	0	0	0	0	-1.76	-1.8	3	3	0	1500	1500	0
3/11/2025 9:21	50502	MECH_T1	1	1	0	1.3	1.7	0.4	0	0	0	0	0	0	0	0
3/11/2025 9:21	57205	ROSS_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/11/2025 9:21	67605	WARW_T1	38	44	6	0.43	0.49	0.06	0	0	0	0	0	0	0	0
3/11/2025 9:21	65901	SAKR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 9:21	57203	ROSS_T1	0	0	0	0	0	0	-0.99	-0.93	0	0	0	0	0	0
3/11/2025 9:21	50506	MECH_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
3/11/2025 9:21	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 9:21	17902	BART_T2	0	0	0	0	0	0	0.02	0.03	0	0	0	0	0	0
3/11/2025 9:22	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 9:22	57201	ROSS_T1	0	0	0	0	0	0	-0.6	-0.64	0	0	0	0	0	0
3/11/2025 9:22	57205	ROSS_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/11/2025 9:23	57205	ROSS_T1	0	1	1	0	0.6	0.6	0.07	0.11	0	0	0	0	0	0
3/11/2025 9:23	67601	WARW_T2	0	0	0	0	0	0	-0.6	-0.44	0	0	0	0	0	0
3/11/2025 9:23	57201	ROSS_T1	0	0	0	0	0	0	-0.6	-0.64	0	0	0	0	0	0
3/11/2025 9:24	57205	ROSS_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/11/2025 9:24	57201	ROSS_T1	0	0	0	0	0	0	-0.6	-0.64	0	0	0	0	0	0
3/11/2025 9:25	67605	WARW_T1	38	44	6	0.43	0.49	0.06	-0.79	-0.86	0	0	0	0	0	0
3/11/2025 9:25	67605	WARW_T1	38	44	6	0.43	0.49	0.06	-0.79	-0.86	0	0	0	0	0	0
3/11/2025 9:25	67605	WARW_T1	38	44	6	0.43	0.49	0.06	-0.79	-0.86	0	0	0	0	0	0
3/11/2025 9:25	67605	WARW_T1	38	44	6	0.43	0.49	0.06	-0.79	-0.86	0	0	0	0	0	0
3/11/2025 9:26	67605	WARW_T1	38	44	6	0.43	0.49	0.06	0	0	0	0	0	0	0	0
3/11/2025 9:28	54505	ENOL_T2	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
3/11/2025 9:28	54503	ENOL_T2	4	1	-3	0.1	0.1	0	0	0	0	0	0	0	0	0
3/11/2025 9:28	54502	ENOL_T2	1	1	0	1.1	1.5	0.4	0	0	0	0	0	0	0	0
3/11/2025 9:28	54504	ENOL_T2	0	0	0	0	0	0	-1.06	-1.08	1	1	0	600	600	0
3/11/2025 9:29	52404	GRPA_T2	5	1	-4	0.36	0.9	0.54	1	1.12	0	0	0	0	0	0
3/11/2025 9:29	52402	GRPA_T2	65	57	-8	0.43	0.52	0.09	0	0	0	0	0	0	0	0
3/11/2025 9:29	52401	GRPA_T2	12	14	2	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
3/11/2025 9:29	52403	GRPA_T2	40	52	12	0.89	0.75	-0.14	0	0	0	0	0	0	0	0
3/11/2025 9:30	10801	CHHI_T1	0	2	2	0	0.2	0.2	-1.41	-1.41	2	2	0	1500	1500	0
3/11/2025 9:30	52403	GRPA_T2	35	241	206	0.76	0.45	-0.31	0	0	0	0	0	0	0	0
3/11/2025 9:30	52401	GRPA_T2	8	66	58	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/11/2025 9:30	52402	GRPA_T2	41	88	47	0.44	0.54	0.1	0	0	0	0	0	0	0	0
3/11/2025 9:30	52404	GRPA_T2	1	8	7	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
3/11/2025 9:33	52402	GRPA_T2	41	88	47	0.44	0.54	0.1	0	0	0	0	0	0	0	0
3/11/2025 9:33	52403	GRPA_T2	35	241	206	0.76	0.45	-0.31	-0.48	-0.48	0	0	0	0	0	0
3/11/2025 9:33	55002	NEWP_T1	4	7	3	0.6	0.89	0.29	-0.24	-0.24	0	0	0	0	0	0
3/11/2025 9:33	55001	NEWP_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
3/11/2025 9:33	52404	GRPA_T2	1	8	7	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
3/11/2025 9:33	52401	GRPA_T2	8	66	58	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/11/2025 9:35	54001	SDLE_T1	36	306	270	0.48	0.44	-0.04	0	0	0	0	0	0	0	0
3/11/2025 9:36	66001	RHEE_T2	0	0	0	0	0	0	-1.29	-1.27	2	2	0	2100	2100	0
3/11/2025 9:36	54001	SDLE_T1	36	306	270	0.48	0.44	-0.04	0	0	0	0	0	0	0	0
3/11/2025 9:37	54001	SDLE_T1	36	306	270	0.48	0.44	-0.04	0	0	0	0	0	0	0	0
3/11/2025 9:37	55002	NEWP_T1	4	7	3	0.6	0.89	0.29	-0.48	-0.48	0	0	0	0	0	0
3/11/2025 9:37	54701	NEBL_T1	6	9	3	0.65	1.06	0.41	0	0	0	0	0	0	0	0
3/11/2025 9:37	55001	NEWP_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
3/11/2025 9:38	54001	SDLE_T1	36	306	270	0.48	0.44	-0.04	0	0	0	0	0	0	0	0
3/11/2025 9:38	57201	ROSS_T1	0	9	9	0	0.11	0.11	0	0	0	0	0	0	0	0
3/11/2025 9:38	57205	ROSS_T1	1	2	1	0.1	0.7	0.6	0	0	0	0	0	0	0	0
3/11/2025 9:39	54001	SDLE_T1	36	306	270	0.48	0.44	-0.04	0	0	0	0	0	0	0	0
3/11/2025 9:43	52403	GRPA_T2	35	241	206	0.76	0.45	-0.31	-0.48	-0.48	0	0	0	0	0	0
3/11/2025 9:43	52404	GRPA_T2	1	8	7	0.7	0.35	-0.35	0	0	0	0	0	0	0	0
3/11/2025 9:43	61303	EARL_T1	1	1	0	0.1	0.1	0	0.59	0.61	0	0	0	0	0	0
3/11/2025 9:43	52401	GRPA_T2	8	66	58	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/11/2025 9:43	61304	EARL_T1	106	217	111	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/11/2025 9:43	52402	GRPA_T2	41	88	47	0.44	0.54	0.1	0	0	0	0	0	0	0	0
3/11/2025 9:43	61306	EARL_T1	24	42	18	0.14	0.17	0.03	0	0	0	0	0	0	0	0
3/11/2025 9:44	54505	ENOL_T2	1	2	1	0.8	0.5	-0.3	-1.33	-1.35	1	1	0	600	600	0
3/11/2025 9:44	23502	GEOR_T1	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
3/11/2025 9:44	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 9:44	54502	ENOL_T2	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
3/11/2025 9:45	23203	HIRU_T2	0	0	0	0	0	0	0.16	0.04	0	0	0	0	0	0
3/11/2025 9:45	23201	HIRU_T2	3	5	2	0.17	0.28	0.11	0	0	0	0	0	0	0	0
3/11/2025 9:46	52404	GRPA_T2	1	8	7	0.9	0.35	-0.55	0	0	0	0	0	0	0	0
3/11/2025 9:46	52402	GRPA_T2	56	86	30	0.48	0.56	0.08	0	0	0	0	0	0	0	0
3/11/2025 9:46	52401	GRPA_T2	13	67	54	0.24	0.25	0.01	0	0	0	0	0	0	0	0
3/11/2025 9:46	52403	GRPA_T2	52	246	194	0.74	0.46	-0.28	0	0	0	0	0	0	0	0
3/11/2025 9:48	10903	COOP_T2	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/11/2025 9:50	43202	MVIL_T2	55	52	-3	0.27	0.24	-0.03	-0.61	-0.56	0	0	0	0	0	0
3/11/2025 9:54	67201	TEHI_T1	0	0	0	0	0	0	0.47	0.36	1	1	0	900	900	0
3/11/2025 9:57	40701	FFLD_T1	0	20	20	0	0.14	0.14	0	0	0	0	0	0	0	0
3/11/2025 9:57	40702	FFLD_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 9:57	63501	HEID_TBK1-2	2	5	3	0.45	0.36	-0.09	0.29	0.21	1	1	0	900	900	0
3/11/2025 9:58	52403	GRPA_T2	52	246	194	0.74	0.46	-0.28	0	0	0	0	0	0	0	0
3/11/2025 9:58	52401	GRPA_T2	13	67	54	0.24	0.25	0.01	0	0	0	0	0	0	0	0
3/11/2025 9:58	52404	GRPA_T2	1	8	7	0.9	0.35	-0.55	0	0	0	0	0	0	0	0
3/11/2025 9:58	52402	GRPA_T2	56	86	30	0.48	0.56	0.08	0	0	0	0	0	0	0	0
3/11/2025 10:00	40505	CRES_T1	1	1	0	0.2	0.3	0.1	0.22	0.28	0	0	0	0	0	0
3/11/2025 10:00	58101	NEKI_T1	3	2	-1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
3/11/2025 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
3/11/2025 10:00	58401	MORO_T1	0	0	0	0	0	0	-2.13	-2.1	2	2	0	1200	1200	0
3/11/2025 10:00	58102	NEKI_T1	2	2	0	1.2	0.8	-0.4	0.26	0.13	0	0	0	0	0	0
3/11/2025 10:00	53901	HALI_T2	1	1	0	1	0.2	-0.8	-1.05	0.06	0	0	0	0	0	0
3/11/2025 10:00	53902	HALI_T2	1	1	0	5.6	5.1	-0.5	0	0	0	0	0	0	0	0
3/11/2025 10:00	62605	ENGL_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 10:00	16402	MOPO_T1	3	2	-1	0.53	0.3	-0.23	-0.03	-0.03	0	0	0	0	0	0
3/11/2025 10:00	53903	HALI_T2	2	2	0	1.1	0.4	-0.7	0	0	0	0	0	0	0	0
3/11/2025 10:00	62607	ENGL_T1	2	2	0	0.3	0.3	0	-0.83	-0.79	0	0	0	0	0	0
3/11/2025 10:03	52403	GRPA_T2	241	235	-6	0.45	0.64	0.19	-0.48	-0.5	0	0	0	0	0	0
3/11/2025 10:03	52404	GRPA_T2	8	7	-1	0.35	0.34	-0.01	0	0	0	0	0	0	0	0
3/11/2025 10:03	52402	GRPA_T2	86	98	12	0.54	0.65	0.11	0	0	0	0	0	0	0	0
3/11/2025 10:03	52401	GRPA_T2	65	32	-33	0.24	0.44	0.2	0	0	0	0	0	0	0	0
3/11/2025 10:06	67503	WEWI_T2	1	1	0	0.2	0.2	0	-0.17	-0.19	0	0	0	0	0	0
3/11/2025 10:06	67502	WEWI_T2	6	10	4	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
3/11/2025 10:08	52502	PROG_T2	1	0	-1	0.3	0	-0.3	-0.76	-0.7	1	1	0	900	900	0
3/11/2025 10:10	67201	TEHI_T1	0	0	0	0	0	0	0.36	0.67	1	1	0	900	900	0
3/11/2025 10:12	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 10:12	10801	CHHI_T1	2	1	-1	0.2	0.1	-0.1	-0.95	-0.96	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/11/2025 10:12	21206	ECAR_T2	1	1	0	8.2	7.7	-0.5	0.33	0.34	0	0	0	0	0	0
3/11/2025 10:13	60801	BUCK_T1	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/11/2025 10:13	60803	BUCK_T1	8	2	-6	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
3/11/2025 10:13	63501	HEID_TBK1-2	3	6	3	0.53	0.42	-0.11	0.21	0.28	1	1	0	900	900	0
3/11/2025 10:13	21203	ECAR_T1	2	2	0	0.1	0.1	0	-0.31	-0.24	0	0	0	0	0	0
3/11/2025 10:14	53502	EVIL_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/11/2025 10:14	52404	GRPA_T2	8	7	-1	0.35	0.34	-0.01	0	0	0	0	0	0	0	0
3/11/2025 10:14	52401	GRPA_T2	65	32	-33	0.24	0.44	0.2	0	0	0	0	0	0	0	0
3/11/2025 10:14	53501	EVIL_T2	3	2	-1	0.57	1.05	0.48	-0.23	-0.25	1	1	0	600	600	0
3/11/2025 10:14	54701	NEBL_T1	9	9	0	0.98	0.82	-0.16	0	0	0	0	0	0	0	0
3/11/2025 10:14	52402	GRPA_T2	86	98	12	0.54	0.65	0.11	0	0	0	0	0	0	0	0
3/11/2025 10:14	63501	HEID_TBK1-2	3	6	3	0.53	0.42	-0.11	0.41	0.56	2	2	0	1800	1800	0
3/11/2025 10:14	52403	GRPA_T2	241	235	-6	0.45	0.64	0.19	0	0	0	0	0	0	0	0
3/11/2025 10:15	52402	GRPA_T2	66	104	38	0.55	0.63	0.08	0	0	0	0	0	0	0	0
3/11/2025 10:15	63501	HEID_TBK1-2	4	8	4	0.2	0.49	0.29	0.21	0.28	1	1	0	900	900	0
3/11/2025 10:15	52401	GRPA_T2	23	58	35	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
3/11/2025 10:15	47101	MARL_T1	1	0	-1	0.4	0	-0.4	-1.2	-1.24	0	0	0	0	0	0
3/11/2025 10:15	52403	GRPA_T2	162	314	152	0.51	0.62	0.11	-0.99	-0.9	0	0	0	0	0	0
3/11/2025 10:15	47901	HRDG_T1	0	0	0	0	0	0	1.43	1.69	0	0	0	0	0	0
3/11/2025 10:15	52404	GRPA_T2	2	8	6	0.5	0.34	-0.16	0	0	0	0	0	0	0	0
3/11/2025 10:16	52401	GRPA_T2	23	58	35	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
3/11/2025 10:16	47101	MARL_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/11/2025 10:16	52404	GRPA_T2	2	8	6	0.5	0.34	-0.16	0	0	0	0	0	0	0	0
3/11/2025 10:16	47104	MARL_T1	0	0	0	0	0	0	-2.23	-2.23	0	0	0	0	0	0
3/11/2025 10:16	52402	GRPA_T2	66	104	38	0.55	0.63	0.08	0	0	0	0	0	0	0	0
3/11/2025 10:16	52403	GRPA_T2	162	314	152	0.51	0.62	0.11	-0.5	-0.45	0	0	0	0	0	0
3/11/2025 10:16	63501	HEID_TBK1-2	4	8	4	0.2	0.49	0.29	0.21	0.28	1	1	0	900	900	0
3/11/2025 10:17	52403	GRPA_T2	162	314	152	0.51	0.62	0.11	0	0	0	0	0	0	0	0
3/11/2025 10:17	21206	ECAR_T2	1	1	0	7.6	7.7	0.1	0.33	0.34	0	0	0	0	0	0
3/11/2025 10:17	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 10:17	52401	GRPA_T2	23	58	35	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
3/11/2025 10:17	52404	GRPA_T2	2	8	6	0.5	0.34	-0.16	1.05	1.08	0	0	0	0	0	0
3/11/2025 10:17	52402	GRPA_T2	66	104	38	0.55	0.63	0.08	0	0	0	0	0	0	0	0
3/11/2025 10:17	54701	NEBL_T1	5	10	5	0.92	0.75	-0.17	0	0	0	0	0	0	0	0
3/11/2025 10:18	52404	GRPA_T2	2	8	6	0.5	0.34	-0.16	0	0	0	0	0	0	0	0
3/11/2025 10:18	52402	GRPA_T2	66	104	38	0.55	0.63	0.08	0	0	0	0	0	0	0	0
3/11/2025 10:18	52401	GRPA_T2	23	58	35	0.37	0.34	-0.03	-0.61	-0.63	0	0	0	0	0	0
3/11/2025 10:18	52403	GRPA_T2	162	314	152	0.51	0.62	0.11	0	0	0	0	0	0	0	0
3/11/2025 10:18	63501	HEID_TBK1-2	4	8	4	0.2	0.49	0.29	0.21	0.28	1	1	0	900	900	0
3/11/2025 10:18	66502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 10:19	52404	GRPA_T2	2	8	6	0.5	0.34	-0.16	0	0	0	0	0	0	0	0
3/11/2025 10:19	53502	EVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/11/2025 10:19	52402	GRPA_T2	66	104	38	0.55	0.63	0.08	0	0	0	0	0	0	0	0
3/11/2025 10:19	41002	LAUR_T2	41	57	16	0.35	0.6	0.25	0	0	0	0	0	0	0	0
3/11/2025 10:19	52403	GRPA_T2	162	314	152	0.51	0.62	0.11	0	0	0	0	0	0	0	0
3/11/2025 10:19	47103	MARL_T2	1	2	1	0.2	0.15	-0.05	-0.45	-0.53	0	0	0	0	0	0
3/11/2025 10:19	47102	MARL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 10:19	53501	EVIL_T2	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
3/11/2025 10:19	52401	GRPA_T2	23	58	35	0.37	0.34	-0.03	-0.61	-0.63	0	0	0	0	0	0
3/11/2025 10:19	41001	LAUR_T2	72	80	8	0.36	0.68	0.32	0	0	0	0	0	0	0	0
3/11/2025 10:21	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 10:21	43202	MVIL_T2	49	58	9	0.24	0.43	0.19	-0.59	-0.57	0	0	0	0	0	0
3/11/2025 10:21	67605	WARW_T1	11	21	10	0.36	0.6	0.24	0	0	0	0	0	0	0	0
3/11/2025 10:22	67605	WARW_T1	11	21	10	0.36	0.6	0.24	-0.87	-0.91	0	0	0	0	0	0
3/11/2025 10:22	67603	WARW_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
3/11/2025 10:23	67605	WARW_T1	11	21	10	0.36	0.6	0.24	-0.87	-0.91	0	0	0	0	0	0
3/11/2025 10:23	67603	WARW_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
3/11/2025 10:24	67605	WARW_T1	11	21	10	0.36	0.6	0.24	-0.87	-0.91	0	0	0	0	0	0
3/11/2025 10:24	10602	BLGL_T2	0	1	1	0	0.4	0.4	0.61	0.63	0	0	0	0	0	0
3/11/2025 10:25	40505	CRES_T1	0	1	1	0	0.3	0.3	0.28	0.24	0	0	0	0	0	0
3/11/2025 10:25	57205	ROSS_T1	1	2	1	0.7	0.8	0.1	0.07	0.1	0	0	0	0	0	0
3/11/2025 10:26	40502	CRES_T2	1	1	0	0.2	0.6	0.4	0.17	0.16	0	0	0	0	0	0
3/11/2025 10:26	46004	BERW_T2	1	2	1	0.8	0.5	-0.3	-0.33	-0.37	0	0	0	0	0	0
3/11/2025 10:26	40501	CRES_T2	6	13	7	0.28	0.3	0.02	0	0	0	0	0	0	0	0
3/11/2025 10:27	40505	CRES_T1	0	1	1	0	0.3	0.3	0.28	0.24	0	0	0	0	0	0
3/11/2025 10:27	41602	CLEV_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/11/2025 10:27	41601	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/11/2025 10:28	40701	FFLD_T1	14	23	9	0.15	0.17	0.02	0	0	0	0	0	0	0	0
3/11/2025 10:28	44801	EDAN_T2	1	2	1	0.1	0.8	0.7	-0.47	-0.47	0	0	0	0	0	0
3/11/2025 10:29	52402	GRPA_T2	66	104	38	0.55	0.63	0.08	0	0	0	0	0	0	0	0
3/11/2025 10:29	40502	CRES_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/11/2025 10:29	40505	CRES_T1	0	1	1	0	0.3	0.3	0.56	0.48	0	0	0	0	0	0
3/11/2025 10:29	52404	GRPA_T2	2	8	6	0.5	0.34	-0.16	0	0	0	0	0	0	0	0
3/11/2025 10:29	52401	GRPA_T2	23	58	35	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
3/11/2025 10:29	40501	CRES_T2	6	13	7	0.28	0.3	0.02	0	0	0	0	0	0	0	0
3/11/2025 10:29	52403	GRPA_T2	162	314	152	0.51	0.62	0.11	0	0	0	0	0	0	0	0
3/11/2025 10:30	52402	GRPA_T2	97	121	24	0.65	0.58	-0.07	0	0	0	0	0	0	0	0
3/11/2025 10:30	10801	CHHI_T1	1	0	-1	0.1	0	-0.1	-0.96	-0.72	1	1	0	900	900	0
3/11/2025 10:30	52403	GRPA_T2	229	430	201	0.66	0.65	-0.01	0	0	0	0	0	0	0	0
3/11/2025 10:30	52404	GRPA_T2	7	7	0	0.34	0.4	0.06	0	0	0	0	0	0	0	0
3/11/2025 10:30	52401	GRPA_T2	32	132	100	0.43	0.32	-0.11	0	0	0	0	0	0	0	0
3/11/2025 10:31	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
3/11/2025 10:31	46504	LOHA_T1	2	2	0	0.4	1	0.6	0	0	0	0	0	0	0	0
3/11/2025 10:31	46506	LOHA_T1	3	3	0	4.8	5.43	0.63	0	0	0	0	0	0	0	0
3/11/2025 10:32	46506	LOHA_T1	3	3	0	4.8	5.43	0.63	0	0	0	0	0	0	0	0
3/11/2025 10:32	46504	LOHA_T1	2	2	0	0.4	1	0.6	0	0	0	0	0	0	0	0
3/11/2025 10:32	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 10:32	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
3/11/2025 10:32	40701	FFLD_T1	19	22	3	0.15	0.16	0.01	0	0	0	0	0	0	0	0
3/11/2025 10:33	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 10:33	55002	NEWP_T1	7	12	5	0.77	0.77	0	-0.26	-0.26	0	0	0	0	0	0
3/11/2025 10:33	55001	NEWP_T1	1	2	1	1	0.85	-0.15	0	0	0	0	0	0	0	0
3/11/2025 10:33	40901	JESH_T1	1	2	1	1.2	0.3	-0.9	0	0	0	0	0	0	0	0
3/11/2025 10:34	10903	COOP_T2	2	3	1	0.35	0.57	0.22	0	0	0	0	0	0	0	0
3/11/2025 10:35	58401	MORO_T1	0	0	0	0	0	0	-1.11	-1.1	1	1	0	600	600	0
3/11/2025 10:35	43801	SWIL_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
3/11/2025 10:35	55002	NEWP_T1	7	12	5	0.77	0.77	0	0	0	0	0	0	0	0	0
3/11/2025 10:35	59402	RFLD_T2	0	0	0	0	0	0	-0.27	-0.28	1	1	0	450	450	0
3/11/2025 10:35	43802	SWIL_T1	0	0	0	0	0	0	-0.26	-0.27	1	1	0	600	600	0
3/11/2025 10:35	55001	NEWP_T1	1	2	1	1	0.85	-0.15	-1.17	-1.26	0	0	0	0	0	0
3/11/2025 10:36	43801	SWIL_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
3/11/2025 10:36	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 10:36	55002	NEWP_T1	7	12	5	0.77	0.77	0	0	0	0	0	0	0	0	0
3/11/2025 10:36	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 10:36	67605	WARW_T1	19	32	13	0.61	0.52	-0.09	0	0	0	0	0	0	0	0
3/11/2025 10:36	55001	NEWP_T1	1	2	1	1	0.85	-0.15	-0.39	-0.42	0	0	0	0	0	0
3/11/2025 10:37	55001	NEWP_T1	1	2	1	1	0.85	-0.15	0	0	0	0	0	0	0	0
3/11/2025 10:37	55002	NEWP_T1	7	12	5	0.77	0.77	0	-0.26	-0.27	0	0	0	0	0	0
3/11/2025 10:38	55105	WERT_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 10:38	67503	WEWI_T2	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/11/2025 10:38	55101	WERT_T1	0	0	0	0	0	0	-2.01	-2.13	4	4	0	3000	3000	0
3/11/2025 10:38	67502	WEWI_T2	10	20	10	0.4	0.44	0.04	0	0	0	0	0	0	0	0
3/11/2025 10:39	24203	PROV_T4	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/11/2025 10:39	59402	RFLD_T2	0	0	0	0	0	0	-0.28	-0.27	1	1	0	450	450	0
3/11/2025 10:39	24202	PROV_T4	267	19	-248	0.5	0.3	-0.2	-0.43	-0.45	0	0	0	0	0	0
3/11/2025 10:39	60201	ATGL_T2	2	13	11	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
3/11/2025 10:39	46001	BERW_T1	0	0	0	0	0	0	0.91	0.91	0	0	0	0	0	0
3/11/2025 10:39	43304	WATS_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/11/2025 10:40	60201	ATGL_T2	2	13	11	0.3	0.17	-0.13	-0.01	-0.07	0	0	0	0	0	0
3/11/2025 10:40	43304	WATS_T2	0	1	1	0	0.3	0.3	0.96	1.12	0	0	0	0	0	0
3/11/2025 10:40	67602	WARW_T2	0	0	0	0	0	0	1.44	1.44	1	1	0	300	300	0
3/11/2025 10:41	67602	WARW_T2	0	0	0	0	0	0	2.88	2.87	2	2	0	600	600	0
3/11/2025 10:41	43304	WATS_T2	0	1	1	0	0.3	0.3	1.44	1.68	0	0	0	0	0	0
3/11/2025 10:42	46001	BERW_T1	0	0	0	0	0	0	0.91	0.91	0	0	0	0	0	0
3/11/2025 10:42	60201	ATGL_T2	2	13	11	0.3	0.17	-0.13	-0.01	-0.07	0	0	0	0	0	0
3/11/2025 10:42	43304	WATS_T2	0	1	1	0	0.3	0.3	0.48	0.56	0	0	0	0	0	0
3/11/2025 10:43	52402	GRPA_T2	97	121	24	0.65	0.58	-0.07	0	0	0	0	0	0	0	0
3/11/2025 10:43	52401	GRPA_T2	32	132	100	0.43	0.32	-0.11	0	0	0	0	0	0	0	0
3/11/2025 10:43	52403	GRPA_T2	229	430	201	0.66	0.65	-0.01	0	0	0	0	0	0	0	0
3/11/2025 10:43	52404	GRPA_T2	7	7	0	0.34	0.4	0.06	0	0	0	0	0	0	0	0
3/11/2025 10:44	23502	GEOR_T1	0	0	0	0	0	0	-0.25	-0.28	0	0	0	0	0	0
3/11/2025 10:44	45801	HEGI_T1	0	0	0	0	0	0	-0.14	-0.12	1	1	0	900	900	0
3/11/2025 10:45	44801	EDAN_T2	2	2	0	0.8	0.85	0.05	-0.47	-0.45	0	0	0	0	0	0
3/11/2025 10:45	54505	ENOL_T2	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
3/11/2025 10:45	54502	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/11/2025 10:45	54504	ENOL_T2	0	0	0	0	0	0	-1.11	-1.11	1	1	0	600	600	0
3/11/2025 10:46	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 10:46	10103	ALLE_T3	0	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0
3/11/2025 10:46	52404	GRPA_T2	5	7	2	0.36	0.4	0.04	0	0	0	0	0	0	0	0
3/11/2025 10:46	54505	ENOL_T2	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
3/11/2025 10:46	52401	GRPA_T2	55	169	114	0.33	0.35	0.02	0	0	0	0	0	0	0	0
3/11/2025 10:46	10101	ALLE_T3	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
3/11/2025 10:46	52402	GRPA_T2	98	121	23	0.61	0.56	-0.05	0	0	0	0	0	0	0	0
3/11/2025 10:46	52403	GRPA_T2	307	426	119	0.63	0.66	0.03	-0.44	-0.44	0	0	0	0	0	0
3/11/2025 10:46	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 10:46	54502	ENOL_T2	1	1	0	1	1	0	-2.15	-2.14	1	1	0	600	600	0
3/11/2025 10:47	41301	FISH_T1	3	4	1	0.93	1.2	0.27	-0.74	-0.7	0	0	0	0	0	0
3/11/2025 10:47	41305	FISH_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/11/2025 10:48	52403	GRPA_T2	307	426	119	0.63	0.66	0.03	0	0	0	0	0	0	0	0
3/11/2025 10:48	52401	GRPA_T2	55	169	114	0.33	0.35	0.02	-0.67	-0.65	0	0	0	0	0	0
3/11/2025 10:48	52404	GRPA_T2	5	7	2	0.36	0.4	0.04	0	0	0	0	0	0	0	0
3/11/2025 10:48	52402	GRPA_T2	98	121	23	0.61	0.56	-0.05	0	0	0	0	0	0	0	0
3/11/2025 10:49	43202	MVIL_T2	57	55	-2	0.44	0.43	-0.01	-0.57	-0.62	0	0	0	0	0	0
3/11/2025 10:49	43201	MVIL_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/11/2025 10:50	48302	ORWI_T2	2	2	0	8.8	8.9	0.1	0	0	0	0	0	0	0	0
3/11/2025 10:50	48303	ORWI_T2	2	2	0	0.5	0.6	0.1	0.51	0.54	0	0	0	0	0	0
3/11/2025 10:52	47403	PENS_T1	7	8	1	0.63	0.91	0.28	0	0	0	0	0	0	0	0
3/11/2025 10:52	57403	SPAN_T1	2	4	2	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/11/2025 10:52	45801	HEGI_T1	0	0	0	0	0	0	-0.12	-0.09	1	1	0	900	900	0
3/11/2025 10:52	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 10:52	47402	PENS_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/11/2025 10:52	44801	EDAN_T2	2	2	0	0.8	0.85	0.05	-0.45	-0.45	0	0	0	0	0	0
3/11/2025 10:52	57401	SPAN_T1	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/11/2025 10:52	47401	PENS_T1	58	20	-38	0.37	0.47	0.1	0	0	0	0	0	0	0	0
3/11/2025 10:54	57401	SPAN_T1	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 10:54	57403	SPAN_T1	2	4	2	0.1	0.4	0.3	-0.06	-0.08	0	0	0	0	0	0
3/11/2025 10:55	43402	BENT_T1	2	40	38	0.8	0.24	-0.56	-0.8	-0.86	1	1	0	900	900	0
3/11/2025 10:56	43402	BENT_T1	2	40	38	0.8	0.24	-0.56	-0.8	-0.86	1	1	0	900	900	0
3/11/2025 10:56	10801	OHHI_T1	0	2	2	0	0.1	0.1	-0.82	-0.83	1	1	0	900	900	0
3/11/2025 10:56	44801	EDAN_T2	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
3/11/2025 10:56	44802	EDAN_T2	0	0	0	0	0	0	-0.91	-0.86	0	0	0	0	0	0
3/11/2025 10:57	44801	EDAN_T2	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
3/11/2025 10:57	24902	WHHA_T1	4	5	1	0.6	1.13	0.53	0.86	0.81	0	0	0	0	0	0
3/11/2025 10:57	61302	EARL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/11/2025 10:57	61304	EARL_T1	3	6	3	0.37	0.38	0.01	-0.17	-0.12	0	0	0	0	0	0
3/11/2025 10:57	44802	EDAN_T2	0	0	0	0	0	0	-1.82	-1.72	0	0	0	0	0	0
3/11/2025 10:58	40901	JESH_T1	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/11/2025 10:58	61304	EARL_T1	3	6	3	0.37	0.38	0.01	-0.17	-0.12	0	0	0	0	0	0
3/11/2025 10:58	44802	EDAN_T2	0	0	0	0	0	0	-0.91	-0.86	0	0	0	0	0	0
3/11/2025 10:58	59402	RFLD_T2	0	0	0	0	0	0	-0.27	-0.28	1	1	0	450	450	0
3/11/2025 10:58	40902	JESH_T1	0	0	0	0	0	0	-0.61	-0.66	0	0	0	0	0	0
3/11/2025 10:58	24902	WHHA_T1	4	5	1	0.6	1.13	0.53	0.86	0.81	0	0	0	0	0	0
3/11/2025 10:58	61302	EARL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/11/2025 10:58	44801	EDAN_T2	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
3/11/2025 10:59	54505	ENOL_T2	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
3/11/2025 10:59	44801	EDAN_T2	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
3/11/2025 10:59	54503	ENOL_T2	0	0	0	0	0	0	-0.48	-0.47	1	1	0	600	600	0
3/11/2025 10:59	40901	JESH_T1	1	2	1	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/11/2025 10:59	44802	EDAN_T2	0	0	0	0	0	0	-0.91	-0.86	0	0	0	0	0	0
3/11/2025 10:59	40902	JESH_T1	0	0	0	0	0	0	-0.61	-0.66	0	0	0	0	0	0
3/11/2025 10:59	54502	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/11/2025 10:59	61302	EARL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/11/2025 10:59	61304	EARL_T1	3	6	3	0.37	0.38	0.01	-0.35	-0.24	0	0	0	0	0	0
3/11/2025 11:00	44802	EDAN_T2	0	0	0	0	0	0	-0.91	-0.86	0	0	0	0	0	0
3/11/2025 11:00	44801	EDAN_T2	2	4	2	0.85	0.55	-0.3	0	0	0	0	0	0	0	0
3/11/2025 11:01	44802	EDAN_T2	0	0	0	0	0	0	-0.91	-0.86	0	0	0	0	0	0
3/11/2025 11:01	44801	EDAN_T2	2	4	2	0.85	0.55	-0.3	0	0	0	0	0	0	0	0
3/11/2025 11:03	17802	GILB_T1	2	4	2	0.9	0.68	-0.22	0.05	0.03	0	0	0	0	0	0
3/11/2025 11:03	64204	KINZ_T1	63	66	3	0.64	0.77	0.13	0	0	0	0	0	0	0	0
3/11/2025 11:03	64202	KINZ_T1	3	4	1	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
3/11/2025 11:03	64203	KINZ_T1	0	0	0	0	0	0	-0.08	-0.1	2	2	0	1800	1800	0
3/11/2025 11:04	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 11:04	43801	SWIL_T1	1	1	0	5.3	5	-0.3	0	0	0	0	0	0	0	0
3/11/2025 11:04	64202	KINZ_T1	3	4	1	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
3/11/2025 11:04	43802	SWIL_T1	0	0	0	0	0	0	-0.27	-0.27	1	1	0	600	600	0
3/11/2025 11:04	64204	KINZ_T1	63	66	3	0.64	0.77	0.13	0	0	0	0	0	0	0	0
3/11/2025 11:05	47104	MARL_T1	0	0	0	0	0	0	-1.54	-1.82	0	0	0	0	0	0
3/11/2025 11:05	47101	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 11:05	64904	MILL_T1	1	1	0	0.3	0.2	-0.1	0.41	0.43	0	0	0	0	0	0
3/11/2025 11:05	64901	MILL_T1	5	18	13	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/11/2025 11:07	55001	NEWP_T1	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0	0
3/11/2025 11:07	55002	NEWP_T1	12	14	2	0.68	0.94	0.26	-0.78	-0.72	0	0	0	0	0	0
3/11/2025 11:09	57403	SPAN_T1	3	10	7	0.23	0.54	0.31	0	0	0	0	0	0	0	0
3/11/2025 11:09	57401	SPAN_T1	2	4	2	0.95	0.95	0	0	0	0	0	0	0	0	0
3/11/2025 11:10	41601	CLEV_T1	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
3/11/2025 11:10	41602	CLEV_T1	2	4	2	0.3	0.53	0.23	0	0	0	0	0	0	0	0
3/11/2025 11:13	21601	EYNO_T1	0	0	0	0	0	0	0.31	0.22	0	0	0	0	0	0
3/11/2025 11:18	54201	PENN_T1	5	13	8	0.76	0.55	-0.21	0	0	0	0	0	0	0	0
3/11/2025 11:18	54203	PENN_T1	24	29	5	0.49	0.7	0.21	0.6	0.66	0	0	0	0	0	0
3/11/2025 11:19	20601	GRWO_T2	0	0	0	0	0	0	0.56	0.62	0	0	0	0	0	0
3/11/2025 11:19	20603	GRWO_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/11/2025 11:26	51102	CARL_T1	1	3	2	2.9	1.27	-1.63	0	0	0	0	0	0	0	0
3/11/2025 11:26	51101	CARL_T1	1	1	0	6	5.9	-0.1	-0.92	-0.91	0	0	0	0	0	0
3/11/2025 11:26	40505	CRES_T1	1	6	5	0.4	0.33	-0.07	0.72	0.87	0	0	0	0	0	0
3/11/2025 11:26	51109	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 11:26	16302	ALPA_T2	1	6	5	0.1	0.27	0.17	0.53	0.55	0	0	0	0	0	0
3/11/2025 11:26	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 11:26	54203	PENN_T1	24	29	5	0.49	0.7	0.21	0.66	0.6	0	0	0	0	0	0
3/11/2025 11:26	54201	PENN_T1	5	13	8	0.76	0.55	-0.21	0.14	0.28	0	0	0	0	0	0
3/11/2025 11:26	40504	CRES_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 11:28	16102	BING_T2	2	9	7	0.2	0.56	0.36	0	0	0	0	0	0	0	0
3/11/2025 11:28	16101	BING_T2	2	4	2	0.35	0.48	0.13	0	0	0	0	0	0	0	0
3/11/2025 11:28	16302	ALPA_T2	1	6	5	0.1	0.27	0.17	0.53	0.55	0	0	0	0	0	0
3/11/2025 11:28	16103	BING_T2	1	2	1	0.4	0.45	0.05	-0.56	-0.53	1	1	0	900	900	0
3/11/2025 11:33	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 11:33	44301	BEAV_T2	5	5	0	0.18	0.23	0.05	-0.03	0.28	2	2	0	1500	1500	0
3/11/2025 11:33	43202	MVIL_T2	83	90	7	0.48	0.62	0.14	-0.64	-0.65	0	0	0	0	0	0
3/11/2025 11:33	51102	CARL_T1	2	5	3	1.75	1.04	-0.71	0	0	0	0	0	0	0	0
3/11/2025 11:33	43201	MVIL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/11/2025 11:33	44302	BEAV_T2	14	11	-3	0.74	0.73	-0.01	0	0	0	0	0	0	0	0
3/11/2025 11:33	51101	CARL_T1	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
3/11/2025 11:33	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 11:33	51109	CARL_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/11/2025 11:34	61306	EARL_T1	3	15	12	0.13	0.21	0.08	0	0	0	0	0	0	0	0
3/11/2025 11:34	58401	MORO_T1	4	6	2	0.28	0.45	0.17	0	0	0	0	0	0	0	0
3/11/2025 11:34	16302	ALPA_T2	5	6	1	0.26	0.32	0.06	0.53	0.55	0	0	0	0	0	0
3/11/2025 11:34	61303	EARL_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
3/11/2025 11:34	41601	CLEV_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/11/2025 11:34	61302	EARL_T1	1	4	3	0.6	0.38	-0.22	0	0	0	0	0	0	0	0
3/11/2025 11:34	61304	EARL_T1	10	77	67	0.4	0.21	-0.19	0	0	0	0	0	0	0	0
3/11/2025 11:34	41602	CLEV_T1	4	4	0	0.53	0.75	0.22	0	0	0	0	0	0	0	0
3/11/2025 11:35	61303	EARL_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
3/11/2025 11:35	61304	EARL_T1	10	77	67	0.4	0.21	-0.19	0	0	0	0	0	0	0	0
3/11/2025 11:35	61302	EARL_T1	1	4	3	0.6	0.38	-0.22	0	0	0	0	0	0	0	0
3/11/2025 11:35	40504	CRES_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/11/2025 11:35	40505	CRES_T1	3	11	8	0.3	0.28	-0.02	0.24	0.29	0	0	0	0	0	0
3/11/2025 11:35	61306	EARL_T1	3	15	12	0.13	0.21	0.08	0.04	0.05	0	0	0	0	0	0
3/11/2025 11:35	62602	ENGL_T1	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
3/11/2025 11:35	62601	ENGL_T1	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
3/11/2025 11:35	62605	ENGL_T1	2	4	2	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
3/11/2025 11:35	62607	ENGL_T1	3	4	1	0.37	0.43	0.06	0	0	0	0	0	0	0	0
3/11/2025 11:36	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 11:36	62607	ENGL_T1	3	4	1	0.37	0.43	0.06	0	0	0	0	0	0	0	0
3/11/2025 11:36	62602	ENGL_T1	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
3/11/2025 11:36	62605	ENGL_T1	2	4	2	0.35	0.28	-0.07	-0.9	-0.88	0	0	0	0	0	0
3/11/2025 11:36	54601	SUMM_T2	11	16	5	0.89	0.81	-0.08	0	0	0	0	0	0	0	0
3/11/2025 11:37	56802	BENV_T2	643	711	68	0.55	0.53	-0.02	0.74	0.76	0	0	0	0	0	0
3/11/2025 11:37	58401	MORO_T1	4	6	2	0.28	0.45	0.17	-1.1	-1.13	1	1	0	600	600	0
3/11/2025 11:39	60101	COCA_T1	1	1	0	0.1	0.3	0.2	0.16	0.18	0	0	0	0	0	0
3/11/2025 11:40	43201	MVIL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/11/2025 11:40	50505	MECH_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/11/2025 11:40	50503	MECH_T1	5	7	2	0.48	0.39	-0.09	0	0	0	0	0	0	0	0
3/11/2025 11:40	50501	MECH_T1	5	6	1	0.36	0.48	0.12	0	0	0	0	0	0	0	0
3/11/2025 11:40	50502	MECH_T1	5	1	-4	0.4	1.5	1.1	0	0	0	0	0	0	0	0
3/11/2025 11:40	43202	MVIL_T2	83	90	7	0.48	0.62	0.14	-0.65	-0.65	0	0	0	0	0	0
3/11/2025 11:40	50506	MECH_T1	5	9	4	0.62	0.51	-0.11	0	0.02	0	0	0	0	0	0
3/11/2025 11:40	50504	MECH_T1	5	6	1	0.32	0.32	0	0	0	0	0	0	0	0	0
3/11/2025 11:41	58402	MORO_T1	0	0	0	0	0	0	-0.06	-0.07	2	2	0	1500	1500	0
3/11/2025 11:41	58401	MORO_T1	4	6	2	0.28	0.45	0.17	0	0	0	0	0	0	0	0
3/11/2025 11:42	45801	HEGI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 11:42	44302	BEAV_T2	14	11	-3	0.74	0.73	-0.01	0	0	0	0	0	0	0	0
3/11/2025 11:42	61304	EARL_T1	10	77	67	0.4	0.21	-0.19	0	0	0	0	0	0	0	0
3/11/2025 11:42	61302	EARL_T1	1	4	3	0.6	0.38	-0.22	1.09	1.12	1	1	0	1200	1200	0
3/11/2025 11:42	61303	EARL_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
3/11/2025 11:42	61306	EARL_T1	3	15	12	0.13	0.21	0.08	0	0	0	0	0	0	0	0
3/11/2025 11:42	44301	BEAV_T2	5	5	0	0.18	0.23	0.05	0	0	0	0	0	0	0	0
3/11/2025 11:43	62602	ENGL_T1	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
3/11/2025 11:43	62605	ENGL_T1	2	4	2	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
3/11/2025 11:43	44901	SCOT_T2	145	190	45	0.39	0.41	0.02	0	0	0	0	0	0	0	0
3/11/2025 11:43	62607	ENGL_T1	3	4	1	0.37	0.43	0.06	-0.74	-0.83	0	0	0	0	0	0
3/11/2025 11:43	44902	SCOT_T2	590	664	74	0.26	0.31	0.05	-0.92	-0.92	0	0	0	0	0	0
3/11/2025 11:44	61304	EARL_T1	10	77	67	0.4	0.21	-0.19	-0.1	-0.12	0	0	0	0	0	0
3/11/2025 11:44	58402	MORO_T1	0	0	0	0	0	0	-0.06	-0.07	2	2	0	1500	1500	0
3/11/2025 11:44	44301	BEAV_T2	5	5	0	0.18	0.23	0.05	0.28	0.1	2	2	0	1500	1500	0
3/11/2025 11:44	62605	ENGL_T1	2	4	2	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
3/11/2025 11:44	60101	COCA_T1	1	1	0	0.1	0.3	0.2	0.16	0.18	0	0	0	0	0	0
3/11/2025 11:44	61302	EARL_T1	1	4	3	0.6	0.38	-0.22	0	0	0	0	0	0	0	0
3/11/2025 11:44	55001	NEWP_T1	1	7	6	1.5	0.51	-0.99	0	0	0	0	0	0	0	0
3/11/2025 11:44	62602	ENGL_T1	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
3/11/2025 11:44	51301	WIND_T1	7	8	1	0.5	0.49	-0.01	0	0	0	0	0	0	0	0
3/11/2025 11:44	44302	BEAV_T2	14	11	-3	0.74	0.73	-0.01	0	0	0	0	0	0	0	0
3/11/2025 11:44	16302	ALPA_T2	5	6	1	0.26	0.32	0.06	0.55	0.6	0	0	0	0	0	0
3/11/2025 11:44	61306	EARL_T1	3	15	12	0.13	0.21	0.08	0	0	0	0	0	0	0	0
3/11/2025 11:44	61303	EARL_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
3/11/2025 11:44	62607	ENGL_T1	3	4	1	0.37	0.43	0.06	-0.74	-0.83	0	0	0	0	0	0
3/11/2025 11:44	55002	NEWP_T1	14	21	7	0.86	0.85	-0.01	-0.24	-0.23	0	0	0	0	0	0
3/11/2025 11:44	58401	MORO_T1	4	6	2	0.28	0.45	0.17	0	0	0	0	0	0	0	0
3/11/2025 11:44	51303	WIND_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/11/2025 11:44	51305	WIND_T1	1	1	0	0.1	0.9	0.8	0	0	0	0	0	0	0	0
3/11/2025 11:45	45902	AUBU_T1	6	7	1	0.4	0.5	0.1	0	0	1	1	0	600	600	0
3/11/2025 11:45	40501	CRES_T2	19	22	3	0.38	0.46	0.08	0	0	0	0	0	0	0	0
3/11/2025 11:45	61303	EARL_T1	1	5	4	0.1	0.42	0.32	0	0	0	0	0	0	0	0
3/11/2025 11:45	61304	EARL_T1	30	306	276	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
3/11/2025 11:45	61306	EARL_T1	6	39	33	0.2	0.25	0.05	0.05	0.05	0	0	0	0	0	0
3/11/2025 11:45	60101	COCA_T1	1	2	1	0.3	0.3	0	0.16	0.18	0	0	0	0	0	0
3/11/2025 11:45	61302	EARL_T1	2	5	3	0.35	0.62	0.27	0	0	0	0	0	0	0	0
3/11/2025 11:45	40502	CRES_T2	7	9	2	0.26	0.26	0	0	0	0	0	0	0	0	0
3/11/2025 11:46	54505	ENOL_T2	2	2	0	1.05	1.15	0.1	0	0	0	0	0	0	0	0
3/11/2025 11:46	52102	MEIS_T1	1	6	5	0.2	0.53	0.33	0	0	1	1	0	450	450	0
3/11/2025 11:46	14802	TREI_T2	11	20	9	0.25	0.28	0.03	0.27	0.31	0	0	0	0	0	0
3/11/2025 11:46	51306	WIND_T2	3	3	0	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
3/11/2025 11:46	14801	TREI_T2	18	57	39	0.32	0.22	-0.1	0	0	0	0	0	0	0	0
3/11/2025 11:46	52101	MEIS_T1	1	2	1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/11/2025 11:46	54504	ENOL_T2	1	2	1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
3/11/2025 11:46	54503	ENOL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 11:46	51302	WIND_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/11/2025 11:46	54502	ENOL_T2	2	5	3	0.9	0.48	-0.42	0	0	0	0	0	0	0	0
3/11/2025 11:49	64704	LITI_T1	0	2	2	0	0.15	0.15	0.2	0.24	1	1	0	600	600	0
3/11/2025 11:49	58401	MORO_T1	3	7	4	0.37	0.51	0.14	-1.1	-1.13	1	1	0	600	600	0
3/11/2025 11:50	47403	PENS_T1	7	8	1	0.73	0.66	-0.07	0	0	0	0	0	0	0	0
3/11/2025 11:50	47401	PENS_T1	11	9	-2	0.86	0.94	0.08	0.93	1.04	0	0	0	0	0	0
3/11/2025 11:50	42201	SHEN_T2	2	6	4	0.4	0.43	0.03	-0.22	-0.21	1	1	0	600	600	0
3/11/2025 11:50	58401	MORO_T1	3	7	4	0.37	0.51	0.14	-1.1	-1.13	1	1	0	600	600	0
3/11/2025 11:50	47402	PENS_T1	1	2	1	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
3/11/2025 11:51	52102	MEIS_T1	1	6	5	0.2	0.53	0.33	0	0	1	1	0	450	450	0
3/11/2025 11:51	67204	TEHI_T2	144	124	-20	0.45	0.39	-0.06	0.06	0.04	0	0	0	0	0	0
3/11/2025 11:51	52101	MEIS_T1	1	2	1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/11/2025 11:52	13103	NHAM_T2	0	0	0	0	0	0	-1.76	-1.76	1	1	0	600	600	0
3/11/2025 11:52	15702	TANN_T2	4	7	3	0.38	0.57	0.19	-0.42	-0.39	0	0	0	0	0	0
3/11/2025 11:52	15703	TANN_T2	2	3	1	3.45	2.43	-1.02	0	0	0	0	0	0	0	0
3/11/2025 11:52	58401	MORO_T1	3	7	4	0.37	0.51	0.14	0	0	0	0	0	0	0	0
3/11/2025 11:52	58402	MORO_T1	0	0	0	0	0	0	-0.07	-0.07	2	2	0	1500	1500	0
3/11/2025 11:53	64704	LITI_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/11/2025 11:53	64701	LITI_T1	0	0	0	0	0	0	0.32	0.17	0	0	0	0	0	0
3/11/2025 11:54	44301	BEAV_T2	0	5	5	0	0.24	0.24	0	0	0	0	0	0	0	0
3/11/2025 11:54	42201	SHEN_T2	2	6	4	0.4	0.43	0.03	-0.21	-0.23	1	1	0	600	600	0
3/11/2025 11:54	15703	TANN_T2	2	3	1	3.45	2.43	-1.02	0	0	0	0	0	0	0	0
3/11/2025 11:54	15702	TANN_T2	4	7	3	0.38	0.57	0.19	-0.42	-0.39	0	0	0	0	0	0
3/11/2025 11:54	58401	MORO_T1	3	7	4	0.37	0.51	0.14	-1.13	-1.11	1	1	0	600	600	0
3/11/2025 11:54	44302	BEAV_T2	8	12	4	0.73	0.7	-0.03	0.31	0.3	0	0	0	0	0	0
3/11/2025 11:54	67204	TEHI_T2	144	124	-20	0.45	0.39	-0.06	0.06	0.04	0	0	0	0	0	0
3/11/2025 11:55	44302	BEAV_T2	8	12	4	0.73	0.7	-0.03	0.31	0.3	0	0	0	0	0	0
3/11/2025 11:55	60101	COCA_T1	1	2	1	0.3	0.3	0	0.18	0.17	0	0	0	0	0	0
3/11/2025 11:55	44301	BEAV_T2	0	5	5	0	0.24	0.24	0	0	0	0	0	0	0	0
3/11/2025 11:55	58401	MORO_T1	3	7	4	0.37	0.51	0.14	-1.13	-1.11	1	1	0	600	600	0
3/11/2025 11:55	15702	TANN_T2	4	7	3	0.38	0.57	0.19	-0.42	-0.39	0	0	0	0	0	0
3/11/2025 11:55	15703	TANN_T2	2	3	1	3.45	2.43	-1.02	0	0	0	0	0	0	0	0
3/11/2025 11:56	61801	EELI_T2	2	6	4	0.1	0.37	0.27	0	0	0	0	0	0	0	0
3/11/2025 11:56	44301	BEAV_T2	0	5	5	0	0.24	0.24	0	0	0	0	0	0	0	0
3/11/2025 11:56	44302	BEAV_T2	8	12	4	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
3/11/2025 11:56	61803	EELI_T2	0	0	0	0	0	0	1.01	1	0	0	0	0	0	0
3/11/2025 11:58	53501	EVIL_T2	4	6	2	0.7	0.68	-0.02	-0.32	-0.44	1	1	0	600	600	0
3/11/2025 11:58	28801	LAKE_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/11/2025 11:58	28805	LAKE_T1	0	1	1	0	0.2	0.2	-0.26	-0.24	0	0	0	0	0	0
3/11/2025 11:59	53501	EVIL_T2	4	6	2	0.7	0.68	-0.02	-0.32	-0.44	1	1	0	600	600	0
3/11/2025 11:59	54504	ENOL_T2	1	2	1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
3/11/2025 11:59	60101	COCA_T1	1	2	1	0.3	0.3	0	0.18	0.17	0	0	0	0	0	0
3/11/2025 11:59	24105	EHAZ_T1	4	4	0	6	5.65	-0.35	0	0	0	0	0	0	0	0
3/11/2025 11:59	24104	EHAZ_T1	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
3/11/2025 11:59	54502	ENOL_T2	2	5	3	0.9	0.48	-0.42	-2.14	-2	1	1	0	600	600	0
3/11/2025 11:59	54505	ENOL_T2	2	2	0	1.05	1.15	0.1	-2.78	-2.8	2	2	0	1200	1200	0
3/11/2025 11:59	24101	EHAZ_T1	15	2	-13	0.37	1.1	0.73	0	0	0	0	0	0	0	0
3/11/2025 11:59	54503	ENOL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 11:59	24102	EHAZ_T1	3	4	1	0.63	0.55	-0.08	0	0	0	0	0	0	0	0
3/11/2025 11:59	24103	EHAZ_T1	0	0	0	0	0	0	-1.42	-1.39	0	0	0	0	0	0
3/11/2025 12:00	17803	GILB_T2	2	10	8	0.25	0.36	0.11	0	0	0	0	0	0	0	0
3/11/2025 12:00	17805	GILB_T2	6	5	-1	0.48	0.62	0.14	0	0	0	0	0	0	0	0
3/11/2025 12:00	17804	GILB_T2	9	9	0	0.59	0.71	0.12	0	0	0	0	0	0	0	0
3/11/2025 12:00	28805	LAKE_T1	1	1	0	0.2	0.8	0.6	-0.26	-0.24	0	0	0	0	0	0
3/11/2025 12:00	47201	FAXO_T2	0	0	0	0	0	0	-2.39	-2.38	1	1	0	1200	1200	0
3/11/2025 12:00	28801	LAKE_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/11/2025 12:01	17802	GILB_T1	7	6	-1	0.63	0.63	0	0	0.02	0	0	0	0	0	0
3/11/2025 12:01	53501	EVIL_T2	4	6	2	0.88	0.65	-0.23	-0.32	-0.44	1	1	0	600	600	0
3/11/2025 12:02	63501	HEID_TBK1-2	26	68	42	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/11/2025 12:02	53501	EVIL_T2	4	6	2	0.88	0.65	-0.23	-0.32	-0.44	1	1	0	600	600	0
3/11/2025 12:02	22601	KIMB_T1	2	2	0	0.55	0.9	0.35	0.24	0.23	0	0	0	0	0	0
3/11/2025 12:02	22602	KIMB_T1	1	2	1	0.2	0.35	0.15	0	0	0	0	0	0	0	0
3/11/2025 12:04	22602	KIMB_T1	1	2	1	0.2	0.35	0.15	0.27	0.28	0	0	0	0	0	0
3/11/2025 12:04	22601	KIMB_T1	2	2	0	0.55	0.9	0.35	0	0	0	0	0	0	0	0
3/11/2025 12:05	66001	RHEE_T2	0	0	0	0	0	0	-2.73	-0.53	4	2	-2	4200	1800	-2400
3/11/2025 12:08	13905	SEID_T1	1	2	1	0.4	0.65	0.25	0	0	0	0	0	0	0	0
3/11/2025 12:08	13902	SEID_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
3/11/2025 12:10	60301	TWVA_T2	8	0	-8	0.23	0	-0.23	-2.39	-2.41	1	1	0	1200	1200	0
3/11/2025 12:10	14801	TREI_T2	56	84	28	0.22	0.28	0.06	0	0	0	0	0	0	0	0
3/11/2025 12:10	14802	TREI_T2	19	28	9	0.28	0.3	0.02	0.54	0.58	0	0	0	0	0	0
3/11/2025 12:11	67503	WEWI_T2	8	13	5	0.35	0.41	0.06	0	0	0	0	0	0	0	0
3/11/2025 12:11	67502	WEWI_T2	315	271	-44	0.31	0.31	0	0	0	0	0	0	0	0	0
3/11/2025 12:12	14801	TREI_T2	56	84	28	0.22	0.28	0.06	0.26	0.25	0	0	0	0	0	0
3/11/2025 12:12	14802	TREI_T2	19	28	9	0.28	0.3	0.02	0.81	0.86	0	0	0	0	0	0
3/11/2025 12:14	64704	LITI_T1	0	3	3	0	0.13	0.13	0.26	0.15	1	1	0	600	600	0
3/11/2025 12:14	16302	ALPA_T2	4	3	-1	0.43	0.47	0.04	0.65	0.74	0	0	0	0	0	0
3/11/2025 12:15	46803	HEPB_T2	5	6	1	0.38	0.48	0.1	0	0	0	0	0	0	0	0
3/11/2025 12:15	67802	WLAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 12:15	67803	WLAN_T1	13	18	5	0.34	0.36	0.02	0	0	0	0	0	0	0	0
3/11/2025 12:15	63601	LETO_T1	3	0	-3	0.4	0.43	0.03	1.56	1.55	0	0	0	0	0	0
3/11/2025 12:15	46801	HEPB_T2	4	3	-1	0.9	1.1	0.2	0.53	0.51	0	0	0	0	0	0
3/11/2025 12:15	63602	LETO_T1	9	12	3	0.32	0.35	0.03	0	0	0	0	0	0	0	0
3/11/2025 12:15	67805	WLAN_T1	0	0	0	0	0	0	-0.86	-0.97	0	0	0	0	0	0
3/11/2025 12:15	67804	WLAN_T1	29	33	4	0.36	0.42	0.06	0	0	0	0	0	0	0	0
3/11/2025 12:16	52006	LING_T2	3	2	-1	0.83	0.95	0.12	0	0	0	0	0	0	0	0
3/11/2025 12:16	46802	HEPB_T1	2	3	1	0.55	0.5	-0.05	-0.45	-0.43	0	0	0	0	0	0
3/11/2025 12:16	52002	LING_T2	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
3/11/2025 12:16	52004	LING_T2	8	10	2	2.45	2.07	-0.38	0.54	0.39	0	0	0	0	0	0
3/11/2025 12:17	52006	LING_T2	3	2	-1	0.83	0.95	0.12	0	0	0	0	0	0	0	0
3/11/2025 12:17	46801	HEPB_T2	4	3	-1	0.9	1.1	0.2	0.53	0.51	0	0	0	0	0	0
3/11/2025 12:17	46803	HEPB_T2	5	6	1	0.38	0.48	0.1	0	0	0	0	0	0	0	0
3/11/2025 12:17	52004	LING_T2	8	10	2	2.45	2.07	-0.38	0.27	0.2	0	0	0	0	0	0
3/11/2025 12:17	52002	LING_T2	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0
3/11/2025 12:18	46803	HEPB_T2	5	6	1	0.38	0.48	0.1	0.53	0.47	0	0	0	0	0	0
3/11/2025 12:18	46801	HEPB_T2	4	3	-1	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/11/2025 12:20	52001	LING_T1	2	2	0	0.1	0.3	0.2	0.09	0.1	0	0	0	0	0	0
3/11/2025 12:20	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 12:20	52003	LING_T1	4	5	1	0.5	0.58	0.08	0	0	0	0	0	0	0	0
3/11/2025 12:21	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 12:21	52101	MEIS_T1	2	2	0	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
3/11/2025 12:21	52102	MEIS_T1	6	5	-1	0.53	0.66	0.13	0	0	1	1	0	450	450	0
3/11/2025 12:22	42802	SELI_T1	0	0	0	0	0	0	-2.48	-2.42	2	2	0	1800	1800	0
3/11/2025 12:22	17102	WTRE_T2	0	0	0	0	0	0	-0.02	0	4	4	0	4800	4800	0
3/11/2025 12:22	17101	WTRE_T2	5	6	1	3.94	3.53	-0.41	0	0	0	0	0	0	0	0
3/11/2025 12:26	20403	ASHF_T2	50	228	178	0.68	0.42	-0.26	-0.13	-0.17	0	0	0	0	0	0
3/11/2025 12:26	20402	ASHF_T2	1	3	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/11/2025 12:26	20401	ASHF_T2	3	10	7	0.5	0.31	-0.19	0	0	0	0	0	0	0	0
3/11/2025 12:27	20401	ASHF_T2	3	10	7	0.5	0.31	-0.19	0.27	0.36	0	0	0	0	0	0
3/11/2025 12:27	20403	ASHF_T2	50	228	178	0.68	0.42	-0.26	-0.07	-0.09	0	0	0	0	0	0
3/11/2025 12:27	20402	ASHF_T2	1	3	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/11/2025 12:28	17401	FOHI_T1	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
3/11/2025 12:30	54504	ENOL_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
3/11/2025 12:30	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	-0.39	-0.45	1	1	0	600	600	0
3/11/2025 12:30	54502	ENOL_T2	5	4	-1	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
3/11/2025 12:30	54505	ENOL_T2	3	3	0	0.73	0.73	0	0	0	0	0	0	0	0	0
3/11/2025 12:31	54502	ENOL_T2	5	4	-1	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
3/11/2025 12:31	54505	ENOL_T2	3	3	0	0.73	0.73	0	0	0	0	0	0	0	0	0
3/11/2025 12:31	54504	ENOL_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
3/11/2025 12:31	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	-0.39	-0.45	1	1	0	600	600	0
3/11/2025 12:32	63202	MGTN_T2	1	1	0	3.9	8.7	4.8	0.03	0.12	1	1	0	900	900	0
3/11/2025 12:32	54505	ENOL_T2	3	3	0	0.73	0.73	0	0	0	0	0	0	0	0	0
3/11/2025 12:32	54504	ENOL_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
3/11/2025 12:32	54502	ENOL_T2	5	4	-1	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
3/11/2025 12:32	63201	MGTN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 12:32	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	-0.39	-0.45	1	1	0	600	600	0
3/11/2025 12:33	54502	ENOL_T2	5	4	-1	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
3/11/2025 12:33	54505	ENOL_T2	3	3	0	0.73	0.73	0	0	0	0	0	0	0	0	0
3/11/2025 12:33	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	-0.39	-0.45	1	1	0	600	600	0
3/11/2025 12:33	54504	ENOL_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
3/11/2025 12:34	43202	MVIL_T2	83	91	8	0.58	0.53	-0.05	-0.65	-0.66	0	0	0	0	0	0
3/11/2025 12:34	43201	MVIL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/11/2025 12:36	58401	MORO_T1	8	7	-1	0.54	0.3	-0.24	0	0	0	0	0	0	0	0
3/11/2025 12:36	58402	MORO_T1	3	1	-2	0.43	0	-0.43	0	0	0	0	0	0	0	0
3/11/2025 12:36	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 12:37	43304	WATS_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/11/2025 12:37	43301	WATS_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/11/2025 12:37	52102	MEIS_T1	5	2	-3	0.66	0.45	-0.21	0	0	1	1	0	450	450	0
3/11/2025 12:37	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 12:37	52101	MEIS_T1	2	1	-1	0.55	0.3	-0.25	0	0	0	0	0	0	0	0
3/11/2025 12:38	46002	BERW_T2	0	0	0	0	0	0	-0.75	-0.77	1	1	0	900	900	0
3/11/2025 12:38	42802	SELI_T1	0	0	0	0	0	0	-2.42	-2.46	2	2	0	1800	1800	0
3/11/2025 12:38	58402	MORO_T1	3	1	-2	0.43	0	-0.43	0	0	0	0	0	0	0	0
3/11/2025 12:38	58401	MORO_T1	8	7	-1	0.54	0.3	-0.24	-1.15	-1.1	1	1	0	600	600	0
3/11/2025 12:38	43301	WATS_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/11/2025 12:38	43304	WATS_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/11/2025 12:40	46004	BERW_T2	2	3	1	0.95	0.57	-0.38	-0.25	-0.33	0	0	0	0	0	0
3/11/2025 12:40	46002	BERW_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/11/2025 12:41	45501	DERR_T2	3	6	3	0.67	0.48	-0.19	0.47	0.44	2	2	0	1800	1800	0
3/11/2025 12:41	43301	WATS_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/11/2025 12:41	46004	BERW_T2	2	3	1	0.95	0.57	-0.38	0	0	0	0	0	0	0	0
3/11/2025 12:41	43304	WATS_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/11/2025 12:41	46002	BERW_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/11/2025 12:42	11301	EMMA_T1	2	3	1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
3/11/2025 12:42	11302	EMMA_T1	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/11/2025 12:42	45501	DERR_T2	3	6	3	0.67	0.48	-0.19	0.47	0.44	2	2	0	1800	1800	0
3/11/2025 12:42	11303	EMMA_T1	12	11	-1	0.57	0.7	0.13	0	0	0	0	0	0	0	0
3/11/2025 12:43	45501	DERR_T2	3	6	3	0.67	0.48	-0.19	0.47	0.44	2	2	0	1800	1800	0
3/11/2025 12:43	20603	GRWO_T2	1	2	1	0.5	0.2	-0.3	0.4	0.41	0	0	0	0	0	0
3/11/2025 12:43	46001	BERW_T1	0	0	0	0	0	0	0.75	0.83	0	0	0	0	0	0
3/11/2025 12:43	46005	BERW_T1	2	3	1	0.4	0.87	0.47	0	0	0	0	0	0	0	0
3/11/2025 12:44	45501	DERR_T2	3	6	3	0.67	0.48	-0.19	0.47	0.44	2	2	0	1800	1800	0
3/11/2025 12:44	11303	EMMA_T1	12	11	-1	0.57	0.7	0.13	0	0	0	0	0	0	0	0
3/11/2025 12:44	11302	EMMA_T1	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/11/2025 12:44	11301	EMMA_T1	2	3	1	0.45	0.4	-0.05	-0.92	-0.91	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/11/2025 12:46	64204	KINZ_T1	62	64	2	0.66	0.64	-0.02	0	0	0	0	0	0	0	0
3/11/2025 12:46	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 12:46	64203	KINZ_T1	0	0	0	0	0	0	1.17	1.27	1	1	0	600	600	0
3/11/2025 12:47	20601	GRWO_T2	0	0	0	0	0	0	0.55	0.59	0	0	0	0	0	0
3/11/2025 12:47	46903	MNTG_T2	16	5	-11	0.39	0.86	0.47	0	0	0	0	0	0	0	0
3/11/2025 12:47	46901	MNTG_T2	0	0	0	0	0	0	0.62	0.93	0	0	0	0	0	0
3/11/2025 12:47	20603	GRWO_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/11/2025 12:48	45801	HEGI_T1	2	1	-1	0.2	0.2	0	-0.12	-0.12	1	1	0	900	900	0
3/11/2025 12:48	20603	GRWO_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/11/2025 12:48	45501	DERR_T2	4	6	2	0.53	0.5	-0.03	0.47	0.44	2	2	0	1800	1800	0
3/11/2025 12:48	46903	MNTG_T2	16	5	-11	0.39	0.86	0.47	-0.69	-0.75	1	1	0	600	600	0
3/11/2025 12:48	20601	GRWO_T2	0	0	0	0	0	0	0.55	0.59	0	0	0	0	0	0
3/11/2025 12:49	42902	MIDD_T2	1	3	2	0.2	0.37	0.17	0	0	0	0	0	0	0	0
3/11/2025 12:49	42903	MIDD_T2	0	0	0	0	0	0	1.81	1.71	0	0	0	0	0	0
3/11/2025 12:50	13302	ORVI_T2	5	5	0	0.84	0.84	0	1.27	1.33	0	0	0	0	0	0
3/11/2025 12:51	59202	THOM_T1	666	657	-9	0.87	0.81	-0.06	0	0	0	0	0	0	0	0
3/11/2025 12:51	59201	THOM_T1	119	113	-6	0.67	0.65	-0.02	0	0	0	0	0	0	0	0
3/11/2025 12:52	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 12:52	13302	ORVI_T2	5	5	0	0.84	0.84	0	1.33	1.25	0	0	0	0	0	0
3/11/2025 12:52	66501	SMAN_T2	2	2	0	0.95	0.85	-0.1	0	0	0	0	0	0	0	0
3/11/2025 12:52	66504	SMAN_T2	5	5	0	0.78	0.84	0.06	0	0	0	0	0	0	0	0
3/11/2025 12:52	59201	THOM_T1	119	113	-6	0.67	0.65	-0.02	0	0	0	0	0	0	0	0
3/11/2025 12:52	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 12:52	66503	SMAN_T2	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
3/11/2025 12:52	14801	TREI_T2	86	92	6	0.3	0.32	0.02	0	0	0	0	0	0	0	0
3/11/2025 12:52	66505	SMAN_T2	3	2	-1	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/11/2025 12:52	14802	TREI_T2	25	29	4	0.39	0.41	0.02	0.28	0.26	0	0	0	0	0	0
3/11/2025 12:52	59202	THOM_T1	666	657	-9	0.87	0.81	-0.06	0	0	0	0	0	0	0	0
3/11/2025 12:52	66502	SMAN_T2	15	13	-2	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
3/11/2025 12:53	66501	SMAN_T2	2	2	0	0.95	0.85	-0.1	0	0	0	0	0	0	0	0
3/11/2025 12:53	66505	SMAN_T2	3	2	-1	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/11/2025 12:53	66504	SMAN_T2	5	5	0	0.78	0.84	0.06	-1.55	-1.48	0	0	0	0	0	0
3/11/2025 12:53	66502	SMAN_T2	15	13	-2	0.39	0.36	-0.03	0	0	0	0	0	0	0	0
3/11/2025 12:53	42802	SELI_T1	0	0	0	0	0	0	-1.23	-1.18	1	1	0	900	900	0
3/11/2025 12:53	66503	SMAN_T2	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
3/11/2025 12:53	59201	THOM_T1	119	113	-6	0.67	0.65	-0.02	0	0	0	0	0	0	0	0
3/11/2025 12:53	59202	THOM_T1	666	657	-9	0.87	0.81	-0.06	0	0	0	0	0	0	0	0
3/11/2025 12:54	42802	SELI_T1	0	0	0	0	0	0	-1.23	-1.18	1	1	0	900	900	0
3/11/2025 12:54	14801	TREI_T2	86	92	6	0.3	0.32	0.02	0.23	0.23	0	0	0	0	0	0
3/11/2025 12:54	43304	WATS_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/11/2025 12:54	66503	SMAN_T2	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
3/11/2025 12:54	66501	SMAN_T2	2	2	0	0.95	0.85	-0.1	0	0	0	0	0	0	0	0
3/11/2025 12:54	59202	THOM_T1	666	657	-9	0.87	0.81	-0.06	0	0	0	0	0	0	0	0
3/11/2025 12:54	60801	BUCK_T1	8	6	-2	0.53	0.32	-0.21	-0.15	0.06	0	0	0	0	0	0
3/11/2025 12:54	66502	SMAN_T2	15	13	-2	0.39	0.36	-0.03	0.23	0.29	0	0	0	0	0	0
3/11/2025 12:54	14802	TREI_T2	25	29	4	0.39	0.41	0.02	0	0	0	0	0	0	0	0
3/11/2025 12:54	60803	BUCK_T1	8	0	-8	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/11/2025 12:54	55105	WERT_T1	3	3	0	0.37	0.33	-0.04	-1.47	-1.44	2	2	0	1800	1800	0
3/11/2025 12:54	66505	SMAN_T2	3	2	-1	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/11/2025 12:54	43301	WATS_T2	1	2	1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/11/2025 12:54	15001	BLMO_T1	7	7	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/11/2025 12:54	13303	ORVI_T1	0	0	0	0	0	0	0.95	0.98	0	0	0	0	0	0
3/11/2025 12:54	66504	SMAN_T2	5	5	0	0.78	0.84	0.06	-2.07	-1.98	0	0	0	0	0	0
3/11/2025 12:54	59201	THOM_T1	119	113	-6	0.67	0.65	-0.02	0	0	0	0	0	0	0	0
3/11/2025 12:55	59202	THOM_T1	666	657	-9	0.87	0.81	-0.06	0	0	0	0	0	0	0	0
3/11/2025 12:55	59201	THOM_T1	119	113	-6	0.67	0.65	-0.02	0	0	0	0	0	0	0	0
3/11/2025 12:55	55105	WERT_T1	3	0	-3	0.37	0.33	-0.04	-1.47	-1.44	2	2	0	1800	1800	0
3/11/2025 12:56	46001	BERW_T1	0	0	0	0	0	0	0.83	0.85	0	0	0	0	0	0
3/11/2025 12:56	14801	TREI_T2	86	92	6	0.3	0.32	0.02	0	0	0	0	0	0	0	0
3/11/2025 12:56	15001	BLMO_T1	7	7	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/11/2025 12:56	14802	TREI_T2	25	29	4	0.39	0.41	0.02	0.28	0.26	0	0	0	0	0	0
3/11/2025 12:56	60801	BUCK_T1	8	6	-2	0.53	0.32	-0.21	-0.15	0.06	0	0	0	0	0	0
3/11/2025 12:56	60803	BUCK_T1	8	0	-8	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/11/2025 12:56	46005	BERW_T1	3	3	0	0.87	0.7	-0.17	0	0	0	0	0	0	0	0
3/11/2025 12:57	60803	BUCK_T1	8	0	-8	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/11/2025 12:57	46002	BERW_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/11/2025 12:57	46004	BERW_T2	2	3	1	0.6	0.57	-0.03	-0.33	-0.3	0	0	0	0	0	0
3/11/2025 12:57	60801	BUCK_T1	8	6	-2	0.53	0.32	-0.21	-0.3	0.12	0	0	0	0	0	0
3/11/2025 12:58	11302	EMMA_T1	2	2	0	0.6	0.75	0.15	0	0	0	0	0	0	0	0
3/11/2025 12:58	11303	EMMA_T1	10	11	1	0.66	0.67	0.01	0	0	0	0	0	0	0	0
3/11/2025 12:58	46005	BERW_T1	3	3	0	0.87	0.7	-0.17	0	0	0	0	0	0	0	0
3/11/2025 12:58	11301	EMMA_T1	1	3	2	0.7	0.47	-0.23	0	0	0	0	0	0	0	0
3/11/2025 12:58	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 12:59	60803	BUCK_T1	8	0	-8	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/11/2025 12:59	60801	BUCK_T1	8	6	-2	0.53	0.32	-0.21	-0.15	0.06	0	0	0	0	0	0
3/11/2025 13:00	46005	BERW_T1	3	3	0	0.63	0.77	0.14	0	0	0	0	0	0	0	0
3/11/2025 13:00	46001	BERW_T1	0	0	0	0	0	0	0.83	0.85	0	0	0	0	0	0
3/11/2025 13:00	15001	BLMO_T1	7	7	0	0.57	0.47	-0.1	0	0	0	0	0	0	0	0
3/11/2025 13:00	53501	EVIL_T2	3	6	3	0.47	0.72	0.25	-0.56	-0.69	2	2	0	1200	1200	0
3/11/2025 13:01	53501	EVIL_T2	3	6	3	0.47	0.72	0.25	-0.28	-0.34	1	1	0	600	600	0
3/11/2025 13:02	64501	LAVI_T1	2	2	0	0.3	0.3	0	-0.44	-0.34	0	0	0	0	0	0
3/11/2025 13:03	54203	PENN_T1	26	26	0	0.55	0.56	0.01	0	0	0	0	0	0	0	0
3/11/2025 13:03	22601	KIMB_T1	2	2	0	1.35	1.05	-0.3	0	0	0	0	0	0	0	0
3/11/2025 13:03	22602	KIMB_T1	2	1	-1	0.3	0.2	-0.1	0.3	0.29	0	0	0	0	0	0
3/11/2025 13:03	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 13:03	54201	PENN_T1	4	4	0	1.15	1.18	0.03	0.29	0.28	0	0	0	0	0	0
3/11/2025 13:04	58401	MORO_T1	6	5	-1	0.3	0.3	0	0	0	0	0	0	0	0	0
3/11/2025 13:04	54206	PENN_T2	11	9	-2	0.43	0.41	-0.02	0.08	0	0	0	0	0	0	0
3/11/2025 13:04	54202	PENN_T2	4	5	1	0.78	0.68	-0.1	0	0	0	0	0	0	0	0
3/11/2025 13:04	58402	MORO_T1	0	0	0	0	0	0	0.34	0.45	1	1	0	900	900	0
3/11/2025 13:06	10903	COOP_T2	8	15	7	0.58	0.4	-0.18	0	0	0	0	0	0	0	0
3/11/2025 13:06	10901	COOP_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/11/2025 13:07	52204	DEVO_T2	2	2	0	4.05	4.1	0.05	0	0	0	0	0	0	0	0
3/11/2025 13:07	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 13:08	54206	PENN_T2	11	9	-2	0.43	0.41	-0.02	0	0.03	0	0	0	0	0	0
3/11/2025 13:08	54202	PENN_T2	4	5	1	0.78	0.68	-0.1	0	0	0	0	0	0	0	0
3/11/2025 13:08	14403	SSLA_T1	6	34	28	0.8	0.44	-0.36	0	0	0	0	0	0	0	0
3/11/2025 13:08	14402	SSLA_T1	45	343	298	0.33	0.37	0.04	0	0	0	0	0	0	0	0
3/11/2025 13:08	14401	SSLA_T1	13	98	85	0.49	0.27	-0.22	-2.36	-2.32	0	0	0	0	0	0
3/11/2025 13:08	14404	SSLA_T1	17	143	126	0.53	0.3	-0.23	-0.27	-0.12	0	0	0	0	0	0
3/11/2025 13:10	15001	BLMO_T1	7	7	0	0.57	0.47	-0.1	0	0	0	0	0	0	0	0
3/11/2025 13:10	14402	SSLA_T1	45	343	298	0.33	0.37	0.04	0	0	0	0	0	0	0	0
3/11/2025 13:10	14403	SSLA_T1	6	34	28	0.8	0.44	-0.36	0.58	0.59	0	0	0	0	0	0
3/11/2025 13:10	14404	SSLA_T1	17	143	126	0.53	0.3	-0.23	-0.09	-0.04	0	0	0	0	0	0
3/11/2025 13:10	14401	SSLA_T1	13	98	85	0.49	0.27	-0.22	-1.77	-1.74	0	0	0	0	0	0
3/11/2025 13:13	53501	EVIL_T2	3	6	3	0.47	0.72	0.25	-0.34	-0.5	1	1	0	600	600	0
3/11/2025 13:14	63602	LETO_T1	3	82	79	0.5	0.18	-0.32	-0.45	-0.35	0	0	0	0	0	0
3/11/2025 13:14	63601	LETO_T1	2	6	4	0.2	0.52	0.32	0.92	0.9	1	1	0	900	900	0
3/11/2025 13:16	53501	EVIL_T2	3	7	4	0.37	0.81	0.44	-0.34	-0.5	1	1	0	600	600	0
3/11/2025 13:17	53501	EVIL_T2	3	7	4	0.37	0.81	0.44	-0.34	-0.5	1	1	0	600	600	0
3/11/2025 13:20	66505	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 13:20	66502	SMAN_T2	8	12	4	0.41	0.39	-0.02	0	0	0	0	0	0	0	0
3/11/2025 13:20	66503	SMAN_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
3/11/2025 13:20	66504	SMAN_T2	5	5	0	0.72	0.7	-0.02	-0.49	-0.53	0	0	0	0	0	0
3/11/2025 13:20	66501	SMAN_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
3/11/2025 13:24	66501	SMAN_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
3/11/2025 13:24	66503	SMAN_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
3/11/2025 13:24	66505	SMAN_T2	0	1	1	0	0.1	0.1	0.36	0.46	1	1	0	900	900	0
3/11/2025 13:24	66504	SMAN_T2	5	5	0	0.72	0.7	-0.02	0	0	0	0	0	0	0	0
3/11/2025 13:24	66502	SMAN_T2	8	12	4	0.41	0.39	-0.02	0	0	0	0	0	0	0	0
3/11/2025 13:24	14802	TREI_T2	26	92	66	0.37	0.31	-0.06	0.3	0.29	0	0	0	0	0	0
3/11/2025 13:24	14801	TREI_T2	87	149	62	0.31	0.49	0.18	0.26	0.24	0	0	0	0	0	0
3/11/2025 13:25	66504	SMAN_T2	5	5	0	0.72	0.7	-0.02	-0.53	-0.46	0	0	0	0	0	0
3/11/2025 13:25	66501	SMAN_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
3/11/2025 13:25	41902	REED_T1	5	8	3	0.56	0.73	0.17	1.01	1.05	0	0	0	0	0	0
3/11/2025 13:25	66503	SMAN_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
3/11/2025 13:25	66502	SMAN_T2	8	12	4	0.41	0.39	-0.02	0	0	0	0	0	0	0	0
3/11/2025 13:25	66505	SMAN_T2	0	1	1	0	0.1	0.1	0.36	0.46	1	1	0	900	900	0
3/11/2025 13:26	14402	SSLA_T1	114	358	244	0.25	0.38	0.13	0	0	0	0	0	0	0	0
3/11/2025 13:26	14401	SSLA_T1	20	119	99	0.43	0.26	-0.17	0	0	0	0	0	0	0	0
3/11/2025 13:26	14404	SSLA_T1	34	188	154	0.34	0.28	-0.06	-0.04	-0.06	0	0	0	0	0	0
3/11/2025 13:26	14403	SSLA_T1	5	39	34	1.12	0.43	-0.69	0	0	0	0	0	0	0	0
3/11/2025 13:28	61303	EARL_T1	1	2	1	0.3	0.35	0.05	0.72	0.82	0	0	0	0	0	0
3/11/2025 13:28	61304	EARL_T1	14	22	8	0.35	0.34	-0.01	0	0	0	0	0	0	0	0
3/11/2025 13:28	61302	EARL_T1	3	4	1	0.3	0.33	0.03	0	0	0	0	0	0	0	0
3/11/2025 13:28	61306	EARL_T1	3	3	0	0.13	0.13	0	0.04	0.05	0	0	0	0	0	0
3/11/2025 13:29	47901	HRDG_T1	0	1	1	0	1	1	1.64	0.56	0	1	1	0	1200	1200
3/11/2025 13:29	61303	EARL_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/11/2025 13:29	61302	EARL_T1	3	4	1	0.3	0.33	0.03	1.11	1.09	1	1	0	1200	1200	0
3/11/2025 13:29	61304	EARL_T1	14	22	8	0.35	0.34	-0.01	-0.14	-0.15	0	0	0	0	0	0
3/11/2025 13:29	61306	EARL_T1	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0	0
3/11/2025 13:30	41205	KENM_T2	0	0	0	0	0	0	-0.1	-0.08	0	0	0	0	0	0
3/11/2025 13:30	41204	KENM_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/11/2025 13:30	41202	KENM_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/11/2025 13:30	46101	MACI_T2	0	0	0	0	0	0	0.64	0.32	1	1	0	1200	1200	0
3/11/2025 13:30	48303	ORWI_T2	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
3/11/2025 13:30	48302	ORWI_T2	3	5	2	5.93	3.78	-2.15	-0.04	-0.07	0	0	0	0	0	0
3/11/2025 13:33	48303	ORWI_T2	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
3/11/2025 13:33	48302	ORWI_T2	3	5	2	5.93	3.78	-2.15	-0.04	-0.07	0	0	0	0	0	0
3/11/2025 13:35	22602	KIMB_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/11/2025 13:35	22601	KIMB_T1	2	2	0	1	0.95	-0.05	0	0	0	0	0	0	0	0
3/11/2025 13:35	46102	MACI_T1	0	1	1	0	0.2	0.2	0.64	0.63	0	0	0	0	0	0
3/11/2025 13:36	47402	PENS_T1	3	3	0	0.73	0.47	-0.26	0	0	0	0	0	0	0	0
3/11/2025 13:36	47401	PENS_T1	8	9	1	0.83	0.92	0.09	1.06	1.09	0	0	0	0	0	0
3/11/2025 13:36	47403	PENS_T1	5	7	2	0.84	0.77	-0.07	0	0	0	0	0	0	0	0
3/11/2025 13:37	66001	RHEE_T2	0	0	0	0	0	0	-1.18	-1.09	2	2	0	2100	2100	0
3/11/2025 13:39	54602	SUMM_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
3/11/2025 13:39	54601	SUMM_T2	12	12	0	0.83	0.88	0.05	-1.88	-1.81	2	2	0	2100	2100	0
3/11/2025 13:39	60201	ATGL_T2	4	5	1	0.43	0.38	-0.05	0	-0.05	0	0	0	0	0	0
3/11/2025 13:40	60201	ATGL_T2	4	5	1	0.43	0.38	-0.05	0	-0.05	0	0	0	0	0	0
3/11/2025 13:40	12206	FOGE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 13:40	14403	SSLA_T1	34	36	2	0.44	0.47	0.03	0.44	0.44	0	0	0	0	0	0
3/11/2025 13:40	14401	SSLA_T1	98	99	1	0.27	0.29	0.02	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/11/2025 13:40	14402	SSLA_T1	343	340	-3	0.37	0.39	0.02	0	0	0	0	0	0	0	0
3/11/2025 13:40	14404	SSLA_T1	143	190	47	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
3/11/2025 13:40	12202	FOGE_T2	64	34	-30	0.37	0.5	0.13	0	0	0	0	0	0	0	0
3/11/2025 13:42	44801	EDAN_T2	4	6	2	0.78	0.57	-0.21	0	0	0	0	0	0	0	0
3/11/2025 13:44	44801	EDAN_T2	4	6	2	0.78	0.57	-0.21	-0.42	-0.44	0	0	0	0	0	0
3/11/2025 13:45	23901	EFMO_T2	6	5	-1	0.5	0.56	0.06	-0.38	-0.38	0	0	0	0	0	0
3/11/2025 13:45	23902	EFMO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 13:46	23901	EFMO_T2	6	5	-1	0.5	0.56	0.06	-0.76	-0.76	0	0	0	0	0	0
3/11/2025 13:46	23902	EFMO_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 13:51	41902	REED_T1	6	7	1	0.85	0.76	-0.09	1.02	1.08	0	0	0	0	0	0
3/11/2025 13:51	65802	RTWN_T2	5	6	1	0.6	0.82	0.22	-0.28	-0.25	0	0	0	0	0	0
3/11/2025 13:51	65803	RTWN_T2	2	3	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/11/2025 13:52	65803	RTWN_T2	2	3	1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/11/2025 13:52	67402	WAKE_T2	0	0	0	0	0	0	0.98	1.01	0	0	0	0	0	0
3/11/2025 13:52	65802	RTWN_T2	5	6	1	0.6	0.82	0.22	-0.56	-0.5	0	0	0	0	0	0
3/11/2025 13:52	41902	REED_T1	6	7	1	0.85	0.76	-0.09	1.02	1.08	0	0	0	0	0	0
3/11/2025 13:52	67401	WAKE_T2	7	7	0	0.57	0.54	-0.03	-1.18	-1.16	0	0	0	0	0	0
3/11/2025 13:53	54202	PENN_T2	6	6	0	0.68	0.73	0.05	0	0	0	0	0	0	0	0
3/11/2025 13:53	54206	PENN_T2	13	12	-1	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
3/11/2025 13:53	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 13:53	67401	WAKE_T2	7	7	0	0.57	0.54	-0.03	0	0	0	0	0	0	0	0
3/11/2025 13:53	67402	WAKE_T2	0	0	0	0	0	0	0.98	1.01	0	0	0	0	0	0
3/11/2025 13:54	67401	WAKE_T2	7	7	0	0.57	0.54	-0.03	-1.18	-1.16	0	0	0	0	0	0
3/11/2025 13:54	67402	WAKE_T2	0	0	0	0	0	0	1.96	2.03	0	0	0	0	0	0
3/11/2025 13:55	41902	REED_T1	6	7	1	0.85	0.76	-0.09	1.02	1.08	0	0	0	0	0	0
3/11/2025 13:56	67401	WAKE_T2	7	7	0	0.57	0.54	-0.03	0	0	0	0	0	0	0	0
3/11/2025 14:00	41001	LAUR_T2	69	82	13	0.3	0.49	0.19	0	0	0	0	0	0	0	0
3/11/2025 14:00	41002	LAUR_T2	47	57	10	0.29	0.43	0.14	-1.03	-1.02	0	0	0	0	0	0
3/11/2025 14:01	46506	LOHA_T1	8	12	4	2.44	1.83	-0.61	-0.08	-0.17	0	0	0	0	0	0
3/11/2025 14:01	46503	LOHA_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
3/11/2025 14:01	54502	ENOL_T2	2	1	-1	0.7	1.1	0.4	0	0	0	0	0	0	0	0
3/11/2025 14:01	54504	ENOL_T2	2	1	-1	0.45	0.6	0.15	-1.14	-1.15	1	1	0	600	600	0
3/11/2025 14:01	54505	ENOL_T2	3	3	0	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
3/11/2025 14:01	46504	LOHA_T1	47	35	-12	0.48	0.34	-0.14	0	0	0	0	0	0	0	0
3/11/2025 14:02	42401	GIMA_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/11/2025 14:02	48303	ORWI_T2	2	2	0	0.55	0.85	0.3	0	0	0	0	0	0	0	0
3/11/2025 14:02	48302	ORWI_T2	4	9	5	4.6	2.4	-2.2	-0.05	-0.09	0	0	0	0	0	0
3/11/2025 14:05	15603	NSTR_T2	2	2	0	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
3/11/2025 14:05	15602	NSTR_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
3/11/2025 14:05	15601	NSTR_T2	7	9	2	0.36	0.43	0.07	0	0	0	0	0	0	0	0
3/11/2025 14:05	66001	RHEE_T2	0	0	0	0	0	0	-1.09	-1.31	2	2	0	2100	2100	0
3/11/2025 14:06	40301	TAMA_T3	6	11	5	0.82	0.66	-0.16	0	0	0	0	0	0	0	0
3/11/2025 14:06	40303	TAMA_T3	0	2	2	0	0.3	0.3	2.88	2.93	0	0	0	0	0	0
3/11/2025 14:06	40302	TAMA_T3	30	43	13	0.32	0.48	0.16	0	0	0	0	0	0	0	0
3/11/2025 14:07	15601	NSTR_T2	7	9	2	0.36	0.43	0.07	0	0	0	0	0	0	0	0
3/11/2025 14:07	15603	NSTR_T2	2	2	0	0.45	0.25	-0.2	0	0	0	0	0	0	0	0
3/11/2025 14:07	15602	NSTR_T2	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
3/11/2025 14:10	40303	TAMA_T3	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/11/2025 14:10	15001	BLMO_T1	6	7	1	0.58	0.44	-0.14	0	0	0	0	0	0	0	0
3/11/2025 14:10	40301	TAMA_T3	6	11	5	0.82	0.66	-0.16	1.74	1.78	2	2	0	1800	1800	0
3/11/2025 14:10	40302	TAMA_T3	30	43	13	0.32	0.48	0.16	0	0	0	0	0	0	0	0
3/11/2025 14:12	62605	ENGL_T1	4	4	0	0.45	0.53	0.08	-0.89	-0.87	0	0	0	0	0	0
3/11/2025 14:12	46203	DANV_T2	158	167	9	0.79	1.15	0.36	0.41	0.41	0	0	0	0	0	0
3/11/2025 14:12	61802	EELI_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
3/11/2025 14:12	61803	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 14:12	46201	DANV_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/11/2025 14:12	62607	ENGL_T1	3	6	3	0.43	0.28	-0.15	0	0	0	0	0	0	0	0
3/11/2025 14:12	46205	DANV_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/11/2025 14:12	15001	BLMO_T1	6	7	1	0.58	0.44	-0.14	0	0	0	0	0	0	0	0
3/11/2025 14:12	61801	EELI_T2	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
3/11/2025 14:13	62604	ENGL_T1	0	0	0	0	0	0	0.21	0.28	1	1	0	600	600	0
3/11/2025 14:13	46205	DANV_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/11/2025 14:13	62605	ENGL_T1	4	4	0	0.45	0.53	0.08	0	0	0	0	0	0	0	0
3/11/2025 14:13	46201	DANV_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/11/2025 14:13	46203	DANV_T2	158	167	9	0.79	1.15	0.36	0.14	0.14	0	0	0	0	0	0
3/11/2025 14:13	62607	ENGL_T1	3	6	3	0.43	0.28	-0.15	-0.84	-0.76	0	0	0	0	0	0
3/11/2025 14:14	62607	ENGL_T1	3	6	3	0.43	0.28	-0.15	-1.68	-1.53	0	0	0	0	0	0
3/11/2025 14:14	15001	BLMO_T1	6	7	1	0.58	0.44	-0.14	0	0	0	0	0	0	0	0
3/11/2025 14:14	62605	ENGL_T1	4	4	0	0.45	0.53	0.08	0	0	0	0	0	0	0	0
3/11/2025 14:14	62606	ENGL_T1	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
3/11/2025 14:15	46203	DANV_T2	163	166	3	1.01	1.15	0.14	0.14	0.14	0	0	0	0	0	0
3/11/2025 14:15	46205	DANV_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/11/2025 14:15	46201	DANV_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/11/2025 14:16	46203	DANV_T2	163	166	3	1.01	1.15	0.14	0.14	0.14	0	0	0	0	0	0
3/11/2025 14:16	46201	DANV_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/11/2025 14:16	22103	EDEL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 14:16	22101	EDEL_T2	1	1	0	0.5	0.6	0.1	0.32	0.26	1	1	0	1200	1200	0
3/11/2025 14:16	46205	DANV_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/11/2025 14:17	62605	ENGL_T1	4	6	2	0.5	0.38	-0.12	-1.78	-1.74	0	0	0	0	0	0
3/11/2025 14:17	62606	ENGL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 14:17	62607	ENGL_T1	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0	0
3/11/2025 14:18	62605	ENGL_T1	4	6	2	0.5	0.38	-0.12	-0.89	-0.87	0	0	0	0	0	0
3/11/2025 14:18	62606	ENGL_T1	0	0	0	0	0	0	-0.63	-0.67	0	0	0	0	0	0
3/11/2025 14:18	62607	ENGL_T1	6	6	0	0.27	0.27	0	0	0	0	0	0	0	0	0
3/11/2025 14:21	43301	WATS_T2	3	2	-1	0.4	0.5	0.1	0.16	0.13	0	0	0	0	0	0
3/11/2025 14:21	43302	WATS_T2	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/11/2025 14:22	65904	SAKR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 14:22	65902	SAKR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/11/2025 14:22	65901	SAKR_T2	2	2	0	4.65	5.05	0.4	-1.24	-1.2	1	1	0	900	900	0
3/11/2025 14:22	43301	WATS_T2	3	2	-1	0.4	0.5	0.1	0.16	0.13	0	0	0	0	0	0
3/11/2025 14:22	43302	WATS_T2	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/11/2025 14:24	14801	TREI_T2	125	191	66	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
3/11/2025 14:24	14802	TREI_T2	47	130	83	0.37	0.27	-0.1	0	0	0	0	0	0	0	0
3/11/2025 14:26	61304	EARL_T1	36	79	43	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
3/11/2025 14:26	43302	WATS_T2	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/11/2025 14:26	43301	WATS_T2	3	2	-1	0.4	0.5	0.1	0.32	0.27	0	0	0	0	0	0
3/11/2025 14:26	61302	EARL_T1	4	5	1	0.25	0.38	0.13	0	0	0	0	0	0	0	0
3/11/2025 14:26	61306	EARL_T1	5	13	8	0.2	0.21	0.01	0	0	0	0	0	0	0	0
3/11/2025 14:26	61303	EARL_T1	2	2	0	0.35	0.65	0.3	0.65	0.7	0	0	0	0	0	0
3/11/2025 14:27	61303	EARL_T1	2	2	0	0.35	0.65	0.3	0.65	0.7	0	0	0	0	0	0
3/11/2025 14:27	43302	WATS_T2	4	4	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/11/2025 14:27	61302	EARL_T1	4	5	1	0.25	0.38	0.13	0	0	0	0	0	0	0	0
3/11/2025 14:27	61306	EARL_T1	5	13	8	0.2	0.21	0.01	0	0	0	0	0	0	0	0
3/11/2025 14:27	61304	EARL_T1	36	79	43	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
3/11/2025 14:27	65902	SAKR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/11/2025 14:27	65901	SAKR_T2	2	2	0	4.65	5.05	0.4	-1.24	-1.2	1	1	0	900	900	0
3/11/2025 14:27	43301	WATS_T2	3	2	-1	0.4	0.5	0.1	0.16	0.13	0	0	0	0	0	0
3/11/2025 14:27	65904	SAKR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 14:28	53902	HALI_T2	4	6	2	1.88	1.62	-0.26	0	0	0	0	0	0	0	0
3/11/2025 14:28	53903	HALI_T2	9	14	5	0.58	0.74	0.16	0	0	0	0	0	0	0	0
3/11/2025 14:28	53901	HALI_T2	2	8	6	0.6	0.53	-0.07	-1.1	-1.08	0	0	0	0	0	0
3/11/2025 14:31	61303	EARL_T1	2	2	0	0.5	0.65	0.15	0.65	0.7	0	0	0	0	0	0
3/11/2025 14:31	61306	EARL_T1	5	14	9	0.28	0.19	-0.09	0	0	0	0	0	0	0	0
3/11/2025 14:31	61302	EARL_T1	3	5	2	0.33	0.34	0.01	0	0	0	0	0	0	0	0
3/11/2025 14:31	61304	EARL_T1	23	125	102	0.29	0.21	-0.08	0	0	0	0	0	0	0	0
3/11/2025 14:32	61303	EARL_T1	2	2	0	0.5	0.65	0.15	0.65	0.7	0	0	0	0	0	0
3/11/2025 14:32	53903	HALI_T2	13	15	2	0.76	0.65	-0.11	-0.17	-0.18	0	0	0	0	0	0
3/11/2025 14:32	53902	HALI_T2	6	5	-1	1.6	1.8	0.2	0	0	0	0	0	0	0	0
3/11/2025 14:32	61304	EARL_T1	23	125	102	0.29	0.21	-0.08	0	0	0	0	0	0	0	0
3/11/2025 14:32	53901	HALI_T2	8	9	1	0.46	0.49	0.03	-2.21	-2.17	0	0	0	0	0	0
3/11/2025 14:32	61302	EARL_T1	3	5	2	0.33	0.34	0.01	0	0	0	0	0	0	0	0
3/11/2025 14:32	61306	EARL_T1	5	14	9	0.28	0.19	-0.09	0	0	0	0	0	0	0	0
3/11/2025 14:33	53902	HALI_T2	6	5	-1	1.6	1.8	0.2	-0.26	-0.27	0	0	0	0	0	0
3/11/2025 14:33	53903	HALI_T2	13	15	2	0.76	0.65	-0.11	0	0	0	0	0	0	0	0
3/11/2025 14:33	53901	HALI_T2	8	9	1	0.46	0.49	0.03	-4.42	-4.34	0	0	0	0	0	0
3/11/2025 14:35	66902	SHIL_T2	3	3	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
3/11/2025 14:35	66903	SHIL_T2	3	3	0	0.2	0.2	0	-2.36	-2.36	0	0	0	0	0	0
3/11/2025 14:35	66901	SHIL_T2	2	3	1	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
3/11/2025 14:36	66902	SHIL_T2	3	3	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
3/11/2025 14:36	66901	SHIL_T2	2	3	1	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
3/11/2025 14:36	66903	SHIL_T2	3	3	0	0.2	0.2	0	-2.36	-2.36	0	0	0	0	0	0
3/11/2025 14:37	41502	FAIR_T2	1	0	-1	6.4	0	-6.4	-0.72	-0.71	0	0	0	0	0	0
3/11/2025 14:37	41503	FAIR_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 14:37	66902	SHIL_T2	3	3	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
3/11/2025 14:37	66903	SHIL_T2	3	3	0	0.2	0.2	0	-1.18	-1.18	0	0	0	0	0	0
3/11/2025 14:37	66901	SHIL_T2	2	3	1	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
3/11/2025 14:38	66903	SHIL_T2	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/11/2025 14:38	66901	SHIL_T2	2	3	1	0.4	0.33	-0.07	-0.72	-0.72	0	0	0	0	0	0
3/11/2025 14:38	66902	SHIL_T2	3	3	0	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
3/11/2025 14:42	14802	TREI_T2	103	135	32	0.27	0.27	0	0	0	0	0	0	0	0	0
3/11/2025 14:42	14801	TREI_T2	158	190	32	0.48	0.48	0	0	0	0	0	0	0	0	0
3/11/2025 14:43	61306	EARL_T1	5	14	9	0.28	0.19	-0.09	0	0	0	0	0	0	0	0
3/11/2025 14:43	61303	EARL_T1	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
3/11/2025 14:43	61304	EARL_T1	23	125	102	0.29	0.21	-0.08	-0.1	-0.11	0	0	0	0	0	0
3/11/2025 14:43	61302	EARL_T1	3	5	2	0.33	0.34	0.01	0	0	0	0	0	0	0	0
3/11/2025 14:44	53902	HALI_T2	6	5	-1	1.6	1.8	0.2	0	0	0	0	0	0	0	0
3/11/2025 14:44	61304	EARL_T1	23	125	102	0.29	0.21	-0.08	-0.1	-0.11	0	0	0	0	0	0
3/11/2025 14:44	61303	EARL_T1	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
3/11/2025 14:44	61302	EARL_T1	3	5	2	0.33	0.34	0.01	0	0	0	0	0	0	0	0
3/11/2025 14:44	53901	HALI_T2	8	9	1	0.46	0.49	0.03	-1.08	-1.1	0	0	0	0	0	0
3/11/2025 14:44	61306	EARL_T1	5	14	9	0.28	0.19	-0.09	0	0	0	0	0	0	0	0
3/11/2025 14:44	53903	HALI_T2	13	15	2	0.76	0.65	-0.11	0	0	0	0	0	0	0	0
3/11/2025 14:48	45501	DERR_T2	9	5	-4	0.53	0.44	-0.09	0.15	0.15	2	2	0	1800	1800	0
3/11/2025 14:48	10903	COOP_T2	21	15	-6	0.3	0.37	0.07	-0.39	-0.41	1	1	0	600	600	0
3/11/2025 14:48	10901	COOP_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/11/2025 14:49	53903	HALI_T2	14	12	-2	0.61	0.77	0.16	0	0	0	0	0	0	0	0
3/11/2025 14:49	53901	HALI_T2	8	9	1	0.49	0.47	-0.02	0	0	0	0	0	0	0	0
3/11/2025 14:49	40101	HUNT_T2	3	1	-2	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/11/2025 14:49	53902	HALI_T2	4	5	1	2.2	1.7	-0.5	0	0	0	0	0	0	0	0
3/11/2025 14:52	40101	HUNT_T2	3	1	-2	0.2	0.1	-0.1	-1.48	-1.53	0	0	0	0	0	0
3/11/2025 14:52	41902	REED_T1	9	8	-1	0.67	0.64	-0.03	0	0	0	0	0	0	0	0
3/11/2025 14:53	41902	REED_T1	9	8	-1	0.67	0.64	-0.03	0	0	0	0	0	0	0	0
3/11/2025 14:53	15603	NSTR_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/11/2025 14:53	41901	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 14:53	15601	NSTR_T2	7	5	-2	0.56	0.4	-0.16	0	0	0	0	0	0	0	0
3/11/2025 14:53	40101	HUNT_T2	3	1	-2	0.2	0.1	-0.1	-2.96	-3.07	0	0	0	0	0	0
3/11/2025 14:53	15602	NSTR_T2	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
3/11/2025 14:55	52401	GRPA_T2	173	273	100	0.43	0.65	0.22	0	0	0	0	0	0	0	0
3/11/2025 14:55	52402	GRPA_T2	256	296	40	0.59	0.67	0.08	0	0	0	0	0	0	0	0
3/11/2025 14:55	41902	REED_T1	9	8	-1	0.67	0.64	-0.03	0	0	0	0	0	0	0	0
3/11/2025 14:55	41901	REED_T1	0	0	0	0	0	0	-0.02	-0.22	0	0	0	0	0	0
3/11/2025 14:55	52404	GRPA_T2	9	43	34	0.51	0.35	-0.16	0	0	0	0	0	0	0	0
3/11/2025 14:55	52403	GRPA_T2	302	514	212	0.89	0.81	-0.08	-0.43	-0.37	0	0	0	0	0	0
3/11/2025 15:00	11202	ELHE_T2	0	0	0	0	0	0	0.4	0.36	1	1	0	1200	1200	0
3/11/2025 15:00	52401	GRPA_T2	151	277	126	0.49	0.65	0.16	0	0	0	0	0	0	0	0
3/11/2025 15:00	52404	GRPA_T2	11	44	33	0.41	0.37	-0.04	0	0	0	0	0	0	0	0
3/11/2025 15:00	52402	GRPA_T2	225	309	84	0.59	0.68	0.09	0	0	0	0	0	0	0	0
3/11/2025 15:00	52403	GRPA_T2	325	536	211	0.86	0.79	-0.07	-0.43	-0.37	0	0	0	0	0	0
3/11/2025 15:01	52401	GRPA_T2	151	277	126	0.49	0.65	0.16	0	0	0	0	0	0	0	0
3/11/2025 15:01	52402	GRPA_T2	225	309	84	0.59	0.68	0.09	0	0	0	0	0	0	0	0
3/11/2025 15:01	52403	GRPA_T2	325	536	211	0.86	0.79	-0.07	0	0	0	0	0	0	0	0
3/11/2025 15:01	52404	GRPA_T2	11	44	33	0.41	0.37	-0.04	0	0	0	0	0	0	0	0
3/11/2025 15:02	41202	KENM_T2	1	1	0	0.3	0.8	0.5	0	0	0	0	0	0	0	0
3/11/2025 15:02	41204	KENM_T2	1	0	-1	0.1	0	-0.1	-0.04	-0.02	0	0	0	0	0	0
3/11/2025 15:02	41206	KENM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 15:04	52402	GRPA_T2	225	309	84	0.59	0.68	0.09	0	0	0	0	0	0	0	0
3/11/2025 15:04	52401	GRPA_T2	151	277	126	0.49	0.65	0.16	0	0	0	0	0	0	0	0
3/11/2025 15:04	52403	GRPA_T2	325	536	211	0.86	0.79	-0.07	-0.43	-0.37	0	0	0	0	0	0
3/11/2025 15:04	52404	GRPA_T2	11	44	33	0.41	0.37	-0.04	0	0	0	0	0	0	0	0
3/11/2025 15:14	23201	HIRU_T2	6	13	7	0.28	0.21	-0.07	0	0	0	0	0	0	0	0
3/11/2025 15:14	23202	HIRU_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/11/2025 15:14	23203	HIRU_T2	1	1	0	0.1	0.2	0.1	0.07	0.15	0	0	0	0	0	0
3/11/2025 15:14	45501	DERR_T2	5	4	-1	0.44	0.38	-0.06	0.23	0.15	2	2	0	1800	1800	0
3/11/2025 15:14	11203	ELHE_T1	0	0	0	0	0	0	0.81	0.75	0	0	0	0	0	0
3/11/2025 15:16	23202	HIRU_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/11/2025 15:16	23201	HIRU_T2	4	13	9	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
3/11/2025 15:16	23203	HIRU_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 15:17	41002	LAUR_T2	60	60	0	0.59	0.7	0.11	0	0	0	0	0	0	0	0
3/11/2025 15:17	41001	LAUR_T2	87	89	2	0.6	0.73	0.13	0	0	0	0	0	0	0	0
3/11/2025 15:17	46101	MACI_T2	0	0	0	0	0	0	-0.33	-0.33	1	1	0	1200	1200	0
3/11/2025 15:18	51703	OBER_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/11/2025 15:18	51701	OBER_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
3/11/2025 15:19	51701	OBER_T2	1	1	0	5.2	5	-0.2	-2.97	-3.06	2	2	0	2400	2400	0
3/11/2025 15:19	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 15:19	51703	OBER_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/11/2025 15:20	51701	OBER_T2	1	1	0	5.2	5	-0.2	-1.49	-1.53	1	1	0	1200	1200	0
3/11/2025 15:20	51703	OBER_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/11/2025 15:21	44701	MUNC_T2	3	8	5	0.5	0.46	-0.04	-1.18	-1.24	0	0	0	0	0	0
3/11/2025 15:21	67402	WAKE_T2	4	3	-1	0.4	0.5	0.1	0.19	0.15	0	0	0	0	0	0
3/11/2025 15:21	67401	WAKE_T2	44	47	3	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
3/11/2025 15:21	51701	OBER_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
3/11/2025 15:21	51703	OBER_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/11/2025 15:21	44703	MUNC_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 15:22	59402	RFLD_T2	0	3	3	0	0.2	0.2	-0.2	-0.24	0	0	0	0	0	0
3/11/2025 15:24	67401	WAKE_T2	44	47	3	0.31	0.29	-0.02	-1.15	-1.17	0	0	0	0	0	0
3/11/2025 15:24	67402	WAKE_T2	4	3	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/11/2025 15:24	27204	YATE_T1	5	9	4	0.32	0.33	0.01	0	0	0	0	0	0	0	0
3/11/2025 15:24	27201	YATE_T1	10	10	0	5.72	5.6	-0.12	-1.3	-1.38	0	0	0	0	0	0
3/11/2025 15:24	11203	ELHE_T1	0	0	0	0	0	0	0.75	0.77	0	0	0	0	0	0
3/11/2025 15:24	27205	YATE_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/11/2025 15:25	67401	WAKE_T2	44	47	3	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
3/11/2025 15:25	67402	WAKE_T2	4	3	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/11/2025 15:26	67401	WAKE_T2	44	47	3	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
3/11/2025 15:26	67402	WAKE_T2	4	3	-1	0.4	0.5	0.1	0.19	0.15	0	0	0	0	0	0
3/11/2025 15:28	23202	HIRU_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/11/2025 15:28	23203	HIRU_T2	0	1	1	0	0.2	0.2	0.15	0.11	0	0	0	0	0	0
3/11/2025 15:28	23201	HIRU_T2	4	13	9	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
3/11/2025 15:29	20603	GRWO_T2	18	103	85	0.16	0.19	0.03	0	0	0	0	0	0	0	0
3/11/2025 15:29	20601	GRWO_T2	0	1	1	0	0.2	0.2	0.36	0.27	0	0	0	0	0	0
3/11/2025 15:30	20601	GRWO_T2	0	1	1	0	0.2	0.2	0.36	0.27	0	0	0	0	0	0
3/11/2025 15:30	20603	GRWO_T2	72	186	114	0.19	0.28	0.09	0	0	0	0	0	0	0	0
3/11/2025 15:31	20603	GRWO_T2	72	186	114	0.19	0.28	0.09	0	0	0	0	0	0	0	0
3/11/2025 15:31	20601	GRWO_T2	0	1	1	0	0.2	0.2	0.36	0.27	0	0	0	0	0	0
3/11/2025 15:32	20603	GRWO_T2	72	186	114	0.19	0.28	0.09	0.35	0.4	0	0	0	0	0	0
3/11/2025 15:32	20601	GRWO_T2	0	1	1	0	0.2	0.2	0.71	0.53	0	0	0	0	0	0
3/11/2025 15:34	44703	MUNC_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/11/2025 15:34	44701	MUNC_T2	8	11	3	0.46	0.34	-0.12	-1.18	-1.24	0	0	0	0	0	0
3/11/2025 15:35	46503	LOHA_T1	0	1	1	0	0.2	0.2	-0.62	-0.63	0	0	0	0	0	0
3/11/2025 15:35	46506	LOHA_T1	10	7	-3	2	2.79	0.79	0	0	0	0	0	0	0	0
3/11/2025 15:35	46504	LOHA_T1	3	57	54	1.07	0.84	-0.23	0	0	0	0	0	0	0	0
3/11/2025 15:39	59402	RFLD_T2	3	3	0	0.2	0.37	0.17	0	0	0	0	0	0	0	0
3/11/2025 15:40	15104	UPHA_T2	1	1	0	0.1	0.2	0.1	0.52	0.47	0	0	0	0	0	0
3/11/2025 15:40	15103	UPHA_T2	14	63	49	0.61	0.24	-0.37	0	0	0	0	0	0	0	0
3/11/2025 15:40	55401	SHER_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
3/11/2025 15:40	45402	WBLO_T2	2	2	0	0.6	0.65	0.05	-0.87	-0.86	0	0	0	0	0	0
3/11/2025 15:40	55405	SHER_T1	31	31	0	0.61	0.6	-0.01	0	0	0	0	0	0	0	0
3/11/2025 15:41	45403	WBLO_T1	0	0	0	0	0	0	-0.64	-0.27	3	3	0	3600	3600	0
3/11/2025 15:42	43802	SWIL_T1	2	2	0	0.5	0.4	-0.1	-0.31	-0.29	1	1	0	600	600	0
3/11/2025 15:42	15103	UPHA_T2	14	63	49	0.61	0.24	-0.37	0.58	0.58	0	0	0	0	0	0
3/11/2025 15:42	41602	CLEV_T1	7	9	2	0.61	0.54	-0.07	0	0	0	0	0	0	0	0
3/11/2025 15:42	15104	UPHA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/11/2025 15:42	43801	SWIL_T1	18	22	4	0.49	0.41	-0.08	0	0	0	0	0	0	0	0
3/11/2025 15:42	41601	CLEV_T1	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/11/2025 15:43	43802	SWIL_T1	2	2	0	0.5	0.4	-0.1	-0.31	-0.29	1	1	0	600	600	0
3/11/2025 15:43	17804	GILB_T2	7	12	5	0.53	0.3	-0.23	0	0	0	0	0	0	0	0
3/11/2025 15:43	17803	GILB_T2	0	6	6	0	0.25	0.25	0	0	0	0	0	0	0	0
3/11/2025 15:43	17805	GILB_T2	5	5	0	0.5	0.48	-0.02	-0.21	-0.19	0	0	0	0	0	0
3/11/2025 15:43	43801	SWIL_T1	18	22	4	0.49	0.41	-0.08	0	0	0	0	0	0	0	0
3/11/2025 15:44	23202	HIRU_T2	1	1	0	0.5	0.3	-0.2	0.09	0.09	0	0	0	0	0	0
3/11/2025 15:44	23201	HIRU_T2	13	10	-3	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
3/11/2025 15:44	23203	HIRU_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/11/2025 15:46	62607	ENGL_T1	3	1	-2	0.1	0.1	0	0	0	0	0	0	0	0	0
3/11/2025 15:46	62605	ENGL_T1	2	2	0	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
3/11/2025 15:46	62602	ENGL_T1	1	0	-1	0.1	0	-0.1	0.05	0.03	0	0	0	0	0	0
3/11/2025 15:47	52101	MEIS_T1	1	2	1	1.3	0.95	-0.35	0	0	0	0	0	0	0	0
3/11/2025 15:47	17803	GILB_T2	6	1	-5	0.25	0	-0.25	0	0	0	0	0	0	0	0
3/11/2025 15:47	47104	MARL_T1	0	1	1	0	0	0	-0.95	-0.97	0	0	0	0	0	0
3/11/2025 15:47	52102	MEIS_T1	1	6	5	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/11/2025 15:47	17805	GILB_T2	5	6	1	0.46	0.47	0.01	-0.21	-0.19	0	0	0	0	0	0
3/11/2025 15:47	17804	GILB_T2	6	20	14	0.32	0.25	-0.07	0	0	0	0	0	0	0	0
3/11/2025 15:49	17803	GILB_T2	6	1	-5	0.25	0	-0.25	0	0	0	0	0	0	0	0
3/11/2025 15:49	17804	GILB_T2	6	20	14	0.32	0.25	-0.07	0	0	0	0	0	0	0	0
3/11/2025 15:49	17805	GILB_T2	5	6	1	0.46	0.47	0.01	-0.21	-0.19	0	0	0	0	0	0
3/11/2025 15:50	47102	MARL_T2	3	3	0	0.37	0.4	0.03	0	0	0	0	0	0	0	0
3/11/2025 15:50	47103	MARL_T2	6	6	0	0.38	0.32	-0.06	-0.61	-0.59	0	0	0	0	0	0
3/11/2025 15:50	64101	REFR_T1	15	34	19	0.52	0.3	-0.22	-0.16	-0.17	0	0	0	0	0	0
3/11/2025 15:51	66502	SMAN_T2	12	11	-1	0.48	0.33	-0.15	-0.01	0.23	0	0	0	0	0	0
3/11/2025 15:51	66504	SMAN_T2	3	2	-1	0.37	0.4	0.03	0	0	0	0	0	0	0	0
3/11/2025 15:51	66501	SMAN_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
3/11/2025 15:51	66503	SMAN_T2	2	1	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/11/2025 15:51	66505	SMAN_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
3/11/2025 15:52	66505	SMAN_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
3/11/2025 15:52	66503	SMAN_T2	2	1	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/11/2025 15:52	66504	SMAN_T2	3	2	-1	0.37	0.4	0.03	0	0	0	0	0	0	0	0
3/11/2025 15:52	66502	SMAN_T2	12	11	-1	0.48	0.33	-0.15	-0.01	0.23	0	0	0	0	0	0
3/11/2025 15:52	66501	SMAN_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
3/11/2025 15:53	66502	SMAN_T2	12	11	-1	0.48	0.33	-0.15	-0.01	0.12	0	0	0	0	0	0
3/11/2025 15:53	66505	SMAN_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
3/11/2025 15:53	15602	NSTR_T2	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/11/2025 15:53	15601	NSTR_T2	3	4	1	0.33	0.95	0.62	0	0	0	0	0	0	0	0
3/11/2025 15:53	66504	SMAN_T2	3	2	-1	0.37	0.4	0.03	0	0	0	0	0	0	0	0
3/11/2025 15:53	66501	SMAN_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
3/11/2025 15:53	66503	SMAN_T2	2	1	-1	0.4	0.5	0.1	0.35	0.38	0	0	0	0	0	0
3/11/2025 15:53	15603	NSTR_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
3/11/2025 15:53	64101	REFR_T1	15	34	19	0.52	0.3	-0.22	-0.34	-0.34	0	0	0	0	0	0
3/11/2025 15:54	64101	REFR_T1	15	34	19	0.52	0.3	-0.22	-0.17	-0.17	0	0	0	0	0	0
3/11/2025 15:54	15001	BLMO_T1	5	5	0	0.64	0.64	0	0	0	0	0	0	0	0	0
3/11/2025 15:54	54701	NEBL_T1	15	14	-1	0.85	1.03	0.18	0	0	0	0	0	0	0	0
3/11/2025 15:55	44505	HAMI_T2	4	4	0	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
3/11/2025 15:55	66505	SMAN_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
3/11/2025 15:55	66501	SMAN_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
3/11/2025 15:55	44502	HAMI_T2	4	3	-1	1.25	1.63	0.38	0.02	0.01	0	0	0	0	0	0
3/11/2025 15:55	66504	SMAN_T2	3	2	-1	0.37	0.4	0.03	0	0	0	0	0	0	0	0
3/11/2025 15:55	66503	SMAN_T2	2	1	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/11/2025 15:55	66502	SMAN_T2	12	11	-1	0.48	0.33	-0.15	-0.01	0.23	0	0	0	0	0	0
3/11/2025 15:56	66503	SMAN_T2	2	1	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/11/2025 15:56	66504	SMAN_T2	3	2	-1	0.37	0.4	0.03	0	0	0	0	0	0	0	0
3/11/2025 15:56	66502	SMAN_T2	12	11	-1	0.48	0.33	-0.15	-0.01	0.12	0	0	0	0	0	0
3/11/2025 15:56	66501	SMAN_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
3/11/2025 15:56	66505	SMAN_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
3/11/2025 15:57	66501	SMAN_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
3/11/2025 15:57	66503	SMAN_T2	2	1	-1	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/11/2025 15:57	66502	SMAN_T2	12	11	-1	0.48	0.33	-0.15	-0.01	0.12	0	0	0	0	0	0
3/11/2025 15:57	66505	SMAN_T2	3	0	-3	0.17	0	-0.17	0	0	0	0	0	0	0	0
3/11/2025 15:57	66504	SMAN_T2	3	2	-1	0.37	0.4	0.03	0	0	0	0	0	0	0	0
3/11/2025 15:58	15001	BLMO_T1	5	5	0	0.64	0.64	0	0	0	0	0	0	0	0	0
3/11/2025 16:00	45801	HEGI_T1	0	0	0	0	0	0	-0.25	-0.31	1	1	0	900	900	0
3/11/2025 16:01	53902	HALI_T2	3	3	0	2.4	2.43	0.03	0	0	0	0	0	0	0	0
3/11/2025 16:01	53903	HALI_T2	9	9	0	0.64	0.7	0.06	0	0	0	0	0	0	0	0
3/11/2025 16:01	53901	HALI_T2	5	4	-1	0.52	0.58	0.06	-1.11	-1.08	0	0	0	0	0	0
3/11/2025 16:02	53903	HALI_T2	9	9	0	0.64	0.7	0.06	-0.16	-0.17	0	0	0	0	0	0
3/11/2025 16:02	53902	HALI_T2	3	3	0	2.4	2.43	0.03	0	0	0	0	0	0	0	0
3/11/2025 16:02	53901	HALI_T2	5	4	-1	0.52	0.58	0.06	-2.22	-2.16	0	0	0	0	0	0
3/11/2025 16:03	53901	HALI_T2	5	4	-1	0.52	0.58	0.06	-2.22	-2.16	0	0	0	0	0	0
3/11/2025 16:03	52402	GRPA_T2	234	178	-56	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
3/11/2025 16:03	52401	GRPA_T2	254	97	-157	0.63	0.38	-0.25	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/11/2025 16:03	53903	HALI_T2	9	9	0	0.64	0.7	0.06	-0.16	-0.17	0	0	0	0	0	0
3/11/2025 16:03	52403	GRPA_T2	335	123	-212	0.69	0.51	-0.18	-0.29	-0.3	0	0	0	0	0	0
3/11/2025 16:03	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 16:03	53902	HALI_T2	3	3	0	2.4	2.43	0.03	0	0	0	0	0	0	0	0
3/11/2025 16:03	52404	GRPA_T2	63	10	-53	0.35	0.4	0.05	0	0	0	0	0	0	0	0
3/11/2025 16:04	55105	WERT_T1	1	1	0	0.5	0.5	0	-0.76	-0.77	1	1	0	900	900	0
3/11/2025 16:05	67106	SPRI_T2	0	0	0	0	0	0	-1.32	-1.32	1	1	0	900	900	0
3/11/2025 16:05	67101	SPRI_T2	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
3/11/2025 16:07	66903	SHIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/11/2025 16:07	15601	NSTR_T2	4	4	0	0.68	0.88	0.2	0	0	0	0	0	0	0	0
3/11/2025 16:07	15602	NSTR_T2	1	1	0	0.8	0.7	-0.1	0.07	0.08	0	0	0	0	0	0
3/11/2025 16:07	66901	SHIL_T2	1	3	2	0.5	0.23	-0.27	-0.47	-0.49	0	0	0	0	0	0
3/11/2025 16:07	66902	SHIL_T2	1	1	0	0.2	0.1	-0.1	-2.1	-2.08	0	0	0	0	0	0
3/11/2025 16:08	66902	SHIL_T2	1	1	0	0.2	0.1	-0.1	-1.05	-1.04	0	0	0	0	0	0
3/11/2025 16:08	29201	APPE_T1	3	2	-1	0.53	0.7	0.17	0	0	0	0	0	0	0	0
3/11/2025 16:08	66901	SHIL_T2	1	3	2	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
3/11/2025 16:08	66903	SHIL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/11/2025 16:08	29202	APPE_T1	114	147	33	0.22	0.35	0.13	0	0	0	0	0	0	0	0
3/11/2025 16:09	67101	SPRI_T2	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
3/11/2025 16:09	67106	SPRI_T2	0	0	0	0	0	0	-1.32	-1.32	1	1	0	900	900	0
3/11/2025 16:10	67106	SPRI_T2	0	0	0	0	0	0	-1.32	-1.32	1	1	0	900	900	0
3/11/2025 16:10	67101	SPRI_T2	1	1	0	1.3	1.2	-0.1	0	0	0	0	0	0	0	0
3/11/2025 16:10	18001	ZION_T1	7	7	0	0.37	0.44	0.07	0	0	0	0	0	0	0	0
3/11/2025 16:12	61306	EARL_T1	4	36	32	0.2	0.17	-0.03	0.04	0.04	0	0	0	0	0	0
3/11/2025 16:12	61302	EARL_T1	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
3/11/2025 16:12	61303	EARL_T1	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/11/2025 16:12	18001	ZION_T1	7	7	0	0.37	0.44	0.07	0	0	0	0	0	0	0	0
3/11/2025 16:12	61301	EARL_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
3/11/2025 16:12	61301	EARL_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
3/11/2025 16:12	61301	EARL_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
3/11/2025 16:12	61301	EARL_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
3/11/2025 16:12	61304	EARL_T1	56	332	276	0.2	0.2	0	0	0	0	0	0	0	0	0
3/11/2025 16:13	61304	EARL_T1	56	332	276	0.2	0.2	0	0	0	0	0	0	0	0	0
3/11/2025 16:13	61303	EARL_T1	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/11/2025 16:13	61302	EARL_T1	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
3/11/2025 16:13	61306	EARL_T1	4	36	32	0.2	0.17	-0.03	0.04	0.04	0	0	0	0	0	0
3/11/2025 16:16	63501	HEID_TBK1-2	7	2	-5	0.39	0.75	0.36	0.62	0.63	0	0	0	0	0	0
3/11/2025 16:16	61304	EARL_T1	247	341	94	0.2	0.2	0	0	0	0	0	0	0	0	0
3/11/2025 16:16	52404	GRPA_T2	9	10	1	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
3/11/2025 16:16	61303	EARL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/11/2025 16:16	52401	GRPA_T2	95	65	-30	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
3/11/2025 16:16	52403	GRPA_T2	120	52	-68	0.48	0.89	0.41	-0.3	-0.34	0	0	0	0	0	0
3/11/2025 16:16	61301	EARL_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
3/11/2025 16:16	61302	EARL_T1	2	4	2	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
3/11/2025 16:16	52402	GRPA_T2	111	173	62	0.68	0.53	-0.15	0	0	0	0	0	0	0	0
3/11/2025 16:16	61306	EARL_T1	24	36	12	0.17	0.18	0.01	0	0	0	0	0	0	0	0
3/11/2025 16:17	20602	GRWO_T2	17	35	18	0.11	0.13	0.02	0	0	0	0	0	0	0	0
3/11/2025 16:17	20601	GRWO_T2	0	0	0	0	0	0	1.08	1.07	0	0	0	0	0	0
3/11/2025 16:17	20603	GRWO_T2	187	203	16	0.32	0.34	0.02	0	0	0	0	0	0	0	0
3/11/2025 16:18	61306	EARL_T1	24	36	12	0.17	0.18	0.01	0.04	0.04	0	0	0	0	0	0
3/11/2025 16:18	61304	EARL_T1	247	341	94	0.2	0.2	0	0	0	0	0	0	0	0	0
3/11/2025 16:18	61302	EARL_T1	2	4	2	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
3/11/2025 16:18	61303	EARL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/11/2025 16:18	63501	HEID_TBK1-2	7	2	-5	0.39	0.75	0.36	0.62	0.63	0	0	0	0	0	0
3/11/2025 16:19	63501	HEID_TBK1-2	7	2	-5	0.39	0.75	0.36	0.62	0.63	0	0	0	0	0	0
3/11/2025 16:21	40302	TAMA_T3	78	83	5	0.53	0.54	0.01	0	0	0	0	0	0	0	0
3/11/2025 16:21	40301	TAMA_T3	34	45	11	0.4	0.35	-0.05	1.27	1.43	2	2	0	1800	1800	0
3/11/2025 16:21	40303	TAMA_T3	10	11	1	0.33	0.45	0.12	0	0	0	0	0	0	0	0
3/11/2025 16:22	66504	SMAN_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/11/2025 16:22	66502	SMAN_T2	8	7	-1	0.33	0.29	-0.04	0.1	0.08	0	0	0	0	0	0
3/11/2025 16:22	66501	SMAN_T2	2	2	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
3/11/2025 16:22	66503	SMAN_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
3/11/2025 16:23	67401	WAKE_T2	46	31	-15	0.24	0.21	-0.03	-1.15	-1.15	0	0	0	0	0	0
3/11/2025 16:23	67402	WAKE_T2	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
3/11/2025 16:27	67401	WAKE_T2	46	31	-15	0.24	0.21	-0.03	-1.15	-1.15	0	0	0	0	0	0
3/11/2025 16:27	40501	CRES_T2	12	14	2	0.34	0.26	-0.08	0	0	0	0	0	0	0	0
3/11/2025 16:27	40502	CRES_T2	15	17	2	0.31	0.3	-0.01	0.3	0.32	0	0	0	0	0	0
3/11/2025 16:27	67402	WAKE_T2	2	2	0	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
3/11/2025 16:28	40504	CRES_T1	13	2	-11	0.13	0.1	-0.03	-0.48	-0.53	0	0	0	0	0	0
3/11/2025 16:28	40502	CRES_T2	15	17	2	0.31	0.3	-0.01	0.45	0.48	0	0	0	0	0	0
3/11/2025 16:28	40501	CRES_T2	12	14	2	0.34	0.26	-0.08	0	0	0	0	0	0	0	0
3/11/2025 16:28	40505	CRES_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
3/11/2025 16:29	40505	CRES_T1	2	1	-1	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
3/11/2025 16:29	40501	CRES_T2	12	14	2	0.34	0.26	-0.08	0	0	0	0	0	0	0	0
3/11/2025 16:29	40504	CRES_T1	13	2	-11	0.13	0.1	-0.03	-0.96	-1.06	0	0	0	0	0	0
3/11/2025 16:29	40502	CRES_T2	15	17	2	0.31	0.3	-0.01	0.3	0.32	0	0	0	0	0	0
3/11/2025 16:30	40505	CRES_T1	1	0	-1	0.1	0	-0.1	0.41	0.41	0	0	0	0	0	0
3/11/2025 16:30	40504	CRES_T1	2	10	8	0.1	0.1	0	0	0	0	0	0	0	0	0
3/11/2025 16:31	40502	CRES_T2	16	20	4	0.31	0.31	0	0.3	0.32	0	0	0	0	0	0
3/11/2025 16:31	40501	CRES_T2	14	13	-1	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
3/11/2025 16:32	52402	GRPA_T2	172	185	13	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
3/11/2025 16:32	40501	CRES_T2	14	13	-1	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
3/11/2025 16:32	52403	GRPA_T2	52	37	-15	0.88	0.89	0.01	-0.34	-0.29	0	0	0	0	0	0
3/11/2025 16:32	40502	CRES_T2	16	20	4	0.31	0.31	0	0.6	0.64	0	0	0	0	0	0
3/11/2025 16:32	52404	GRPA_T2	9	6	-3	0.37	0.48	0.11	0	0	0	0	0	0	0	0
3/11/2025 16:32	52401	GRPA_T2	65	52	-13	0.33	0.35	0.02	0	0	0	0	0	0	0	0
3/11/2025 16:33	40502	CRES_T2	16	20	4	0.31	0.31	0	0.3	0.32	0	0	0	0	0	0
3/11/2025 16:33	40501	CRES_T2	14	13	-1	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
3/11/2025 16:33	40504	CRES_T1	2	10	8	0.1	0.1	0	-0.48	-0.53	0	0	0	0	0	0
3/11/2025 16:33	40505	CRES_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 16:34	40502	CRES_T2	16	20	4	0.31	0.31	0	0	0	0	0	0	0	0	0
3/11/2025 16:34	40501	CRES_T2	14	13	-1	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
3/11/2025 16:34	40504	CRES_T1	2	10	8	0.1	0.1	0	-0.48	-0.53	0	0	0	0	0	0
3/11/2025 16:34	40505	CRES_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 16:38	44201	POIN_T1	0	0	0	0	0	0	-1.46	-1.47	1	1	0	1200	1200	0
3/11/2025 16:39	43302	WATS_T2	4	4	0	0.63	1	0.37	-0.54	-0.78	2	2	0	1800	1800	0
3/11/2025 16:39	43301	WATS_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/11/2025 16:40	43301	WATS_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/11/2025 16:40	43302	WATS_T2	4	4	0	0.63	1	0.37	-0.54	-0.78	2	2	0	1800	1800	0
3/11/2025 16:40	44201	POIN_T1	0	0	0	0	0	0	-1.46	-1.47	1	1	0	1200	1200	0
3/11/2025 16:43	44201	POIN_T1	0	0	0	0	0	0	-1.46	-1.47	1	1	0	1200	1200	0
3/11/2025 16:49	44701	MUNC_T2	16	53	37	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
3/11/2025 16:49	44703	MUNC_T2	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
3/11/2025 16:49	44702	MUNC_T2	0	8	8	0	0.14	0.14	0	0	0	0	0	0	0	0
3/11/2025 16:50	66001	RHEE_T2	0	0	0	0	0	0	-1.46	-1.46	2	2	0	1800	1800	0
3/11/2025 16:54	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 16:54	44502	HAMI_T2	2	2	0	2.25	2.15	-0.1	0	0	0	0	0	0	0	0
3/11/2025 16:55	44505	HAMI_T2	0	0	0	0	0	0	-0.1	-0.21	0	0	0	0	0	0
3/11/2025 16:55	44502	HAMI_T2	2	2	0	2.25	2.15	-0.1	0	0	0	0	0	0	0	0
3/11/2025 16:56	66001	RHEE_T2	0	0	0	0	0	0	-0.73	-0.7	1	1	0	900	900	0
3/11/2025 16:58	44502	HAMI_T2	2	2	0	2.25	2.15	-0.1	0	0	0	0	0	0	0	0
3/11/2025 16:58	44505	HAMI_T2	0	0	0	0	0	0	-0.1	-0.21	0	0	0	0	0	0
3/11/2025 16:59	17805	GILB_T2	2	1	-1	0.2	0.1	-0.1	-0.24	-0.23	0	0	0	0	0	0
3/11/2025 16:59	17804	GILB_T2	2	7	5	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
3/11/2025 17:00	41204	KENM_T2	0	0	0	0	0	0	0	-0.02	0	0	0	0	0	0
3/11/2025 17:00	41201	KENM_T2	16	7	-9	0.11	0.11	0	0	0	0	0	0	0	0	0
3/11/2025 17:00	41202	KENM_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/11/2025 17:06	54001	SDLE_T1	133	187	54	0.31	0.31	0	0	0	0	0	0	0	0	0
3/11/2025 17:07	54001	SDLE_T1	133	187	54	0.31	0.31	0	0	0	0	0	0	0	0	0
3/11/2025 17:08	54001	SDLE_T1	133	187	54	0.31	0.31	0	0	0	0	0	0	0	0	0
3/11/2025 17:09	54001	SDLE_T1	133	187	54	0.31	0.31	0	0	0	0	0	0	0	0	0
3/11/2025 17:10	60404	DILL_T2	0	0	0	0	0	0	-0.14	-0.24	1	1	0	1200	1200	0
3/11/2025 17:10	54001	SDLE_T1	133	187	54	0.31	0.31	0	0	0	0	0	0	0	0	0
3/11/2025 17:11	54001	SDLE_T1	133	187	54	0.31	0.31	0	0	0	0	0	0	0	0	0
3/11/2025 17:12	60404	DILL_T2	0	0	0	0	0	0	-0.14	-0.24	1	1	0	1200	1200	0
3/11/2025 17:18	10101	ALLE_T3	2	2	0	4.5	4.15	-0.35	0	0	0	0	0	0	0	0
3/11/2025 17:19	65702	RVIL_T2	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
3/11/2025 17:20	65702	RVIL_T2	0	0	0	0	0	0	-0.8	-0.82	0	0	0	0	0	0
3/11/2025 17:21	15702	TANN_T2	0	19	19	0	0.13	0.13	-0.48	-0.38	0	0	0	0	0	0
3/11/2025 17:21	15703	TANN_T2	2	2	0	2.9	2.7	-0.2	0	0	0	0	0	0	0	0
3/11/2025 17:21	65702	RVIL_T2	0	0	0	0	0	0	-0.82	-0.75	0	0	0	0	0	0
3/11/2025 17:23	65702	RVIL_T2	0	0	0	0	0	0	-0.82	-0.75	0	0	0	0	0	0
3/11/2025 17:24	65702	RVIL_T2	0	0	0	0	0	0	-0.82	-0.75	0	0	0	0	0	0
3/11/2025 17:25	45902	AUBU_T1	0	0	0	0	0	0	0	0	3	3	0	1800	1800	0
3/11/2025 17:27	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/11/2025 17:28	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 17:29	41202	KENM_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/11/2025 17:29	41203	KENM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 17:29	41201	KENM_T2	2	6	4	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
3/11/2025 17:32	41202	KENM_T2	1	1	0	1	0.1	-0.9	0	0	0	0	0	0	0	0
3/11/2025 17:32	41201	KENM_T2	6	0	-6	0.12	0	-0.12	0	0	0	0	0	0	0	0
3/11/2025 17:32	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 17:32	10101	ALLE_T3	2	2	0	4.15	4.6	0.45	0	0	0	0	0	0	0	0
3/11/2025 17:34	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 17:34	10101	ALLE_T3	2	2	0	4.15	4.6	0.45	0	0	0	0	0	0	0	0
3/11/2025 17:38	13302	ORVI_T2	1	0	-1	0.1	0	-0.1	1.27	1.31	0	0	0	0	0	0
3/11/2025 17:39	40201	BEGA_T2	4	2	-2	0.33	0.15	-0.18	0	0	0	0	0	0	0	0
3/11/2025 17:51	54203	PENN_T1	18	18	0	0.6	0.58	-0.02	0.68	0.66	0	0	0	0	0	0
3/11/2025 17:51	54201	PENN_T1	3	3	0	1.23	1.27	0.04	0	0	0	0	0	0	0	0
3/11/2025 17:51	66001	RHEE_T2	0	0	0	0	0	0	-0.74	-0.7	1	1	0	900	900	0
3/11/2025 17:54	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 17:54	42501	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 17:54	43402	BENT_T1	0	0	0	0	0	0	-1.02	-1.02	1	1	0	900	900	0
3/11/2025 17:54	42503	ALTA_T2	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
3/11/2025 17:56	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 17:56	42501	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 17:56	42503	ALTA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 17:58	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 17:58	42501	ALTA_T2	1	0	-1	0.1	0	-0.1	0.6	0.59	0	0	0	0	0	0
3/11/2025 18:05	46602	LACR_T1	0	0	0	0	0	0	-0.72	-0.76	0	0	0	0	0	0
3/11/2025 18:09	57401	SPAN_T1	2	2	0	1.6	1.45	-0.15	-0.71	-0.68	1	1	0	600	600	0
3/11/2025 18:18	10101	ALLE_T3	2	2	0	4.55	4.35	-0.2	0	0	0	0	0	0	0	0
3/11/2025 18:28	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/11/2025 18:28	42501	ALTA_T2	0	0	0	0	0	0	0.62	0.61	0	0	0	0	0	0
3/11/2025 18:41	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 18:41	52101	MEIS_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/11/2025 18:46	16301	ALPA_T1	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
3/11/2025 18:46	61303	EARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/11/2025 18:46	61306	EARL_T1	0	5	5	0	0.13	0.13	0	0	0	0	0	0	0	0
3/11/2025 18:46	61301	EARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 18:46	61304	EARL_T1	160	223	63	0.24	0.27	0.03	0	0	0	0	0	0	0	0
3/11/2025 18:46	61302	EARL_T1	0	0	0	0	0	0	0.36	0.24	1	1	0	1200	1200	0
3/11/2025 18:47	60803	BUCK_T1	0	0	0	0	0	0	-0.57	-0.58	1	1	0	600	600	0
3/11/2025 19:12	28102	TWLA_T2	3	9	6	0.37	0.31	-0.06	0.16	0.18	0	0	0	0	0	0
3/11/2025 19:22	15601	NSTR_T2	3	1	-2	0.77	0.2	-0.57	0	0	0	0	0	0	0	0
3/11/2025 19:23	15601	NSTR_T2	3	1	-2	0.77	0.2	-0.57	0	0	0	0	0	0	0	0
3/11/2025 19:26	15601	NSTR_T2	3	1	-2	0.77	0.2	-0.57	0	0	0	0	0	0	0	0
3/11/2025 19:48	55002	NEWP_T1	2	2	0	0.25	0.3	0.05	-0.3	-0.31	0	0	0	0	0	0
3/11/2025 20:11	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 20:13	40303	TAMA_T3	6	7	1	0.33	0.46	0.13	2.49	2.74	0	0	0	0	0	0
3/11/2025 20:13	40302	TAMA_T3	31	36	5	0.53	0.58	0.05	0	0	0	0	0	0	0	0
3/11/2025 20:13	40301	TAMA_T3	6	7	1	0.14	0.28	0.14	0	0	0	0	0	0	0	0
3/11/2025 20:19	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 20:26	59402	RFLD_T2	0	0	0	0	0	0	-0.42	-0.41	0	0	0	0	0	0
3/11/2025 20:28	67605	WARW_T1	2	19	17	0.4	0.51	0.11	-1.23	-1.25	0	0	0	0	0	0
3/11/2025 20:30	40701	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 20:37	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 20:40	67603	WARW_T1	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
3/11/2025 20:40	67605	WARW_T1	13	22	9	0.39	0.58	0.19	-1.25	-1.28	0	0	0	0	0	0
3/11/2025 20:41	67605	WARW_T1	13	22	9	0.39	0.58	0.19	-1.25	-1.28	0	0	0	0	0	0
3/11/2025 20:41	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 20:41	43302	WATS_T2	4	4	0	0.18	0.23	0.05	0	0	0	0	0	0	0	0
3/11/2025 20:41	43304	WATS_T2	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
3/11/2025 20:42	43304	WATS_T2	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
3/11/2025 20:42	43302	WATS_T2	4	4	0	0.18	0.23	0.05	0	0	0	0	0	0	0	0
3/11/2025 20:43	43302	WATS_T2	4	4	0	0.18	0.23	0.05	0	0	0	0	0	0	0	0
3/11/2025 20:43	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 20:45	67602	WARW_T2	0	0	0	0	0	0	1.25	1.26	1	1	0	300	300	0
3/11/2025 20:45	43304	WATS_T2	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
3/11/2025 20:45	43302	WATS_T2	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0	0
3/11/2025 20:46	64202	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 20:46	64204	KINZ_T1	1	1	0	0.8	1.5	0.7	0	0	0	0	0	0	0	0
3/11/2025 20:46	64201	KINZ_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
3/11/2025 20:46	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 20:52	57205	ROSS_T1	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
3/11/2025 20:56	44801	EDAN_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
3/11/2025 20:56	45801	HEGI_T1	0	0	0	0	0	0	-0.4	-0.34	1	1	0	900	900	0
3/11/2025 20:56	23502	GEOR_T1	0	0	0	0	0	0	-0.24	-0.4	0	0	0	0	0	0
3/11/2025 20:57	44801	EDAN_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
3/11/2025 20:58	44802	EDAN_T2	0	0	0	0	0	0	-0.96	-0.99	0	0	0	0	0	0
3/11/2025 20:59	44801	EDAN_T2	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
3/11/2025 21:01	24902	WHHA_T1	3	3	0	0.8	0.45	-0.35	1.4	1.38	0	0	0	0	0	0
3/11/2025 21:02	10602	BLGL_T2	0	0	0	0	0	0	-0.04	-0.07	0	0	0	0	0	0
3/11/2025 21:02	62604	ENGL_T1	0	0	0	0	0	0	0.02	-0.01	1	1	0	600	600	0
3/11/2025 21:02	46002	BERW_T2	0	0	0	0	0	0	-1.18	-1.18	1	1	0	900	900	0
3/11/2025 21:02	17805	GILB_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/11/2025 21:03	55001	NEWP_T1	0	0	0	0	0	0	-0.98	-1.08	0	0	0	0	0	0
3/11/2025 21:03	62605	ENGL_T1	0	0	0	0	0	0	-0.89	-0.91	0	0	0	0	0	0
3/11/2025 21:03	17805	GILB_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/11/2025 21:03	55002	NEWP_T1	4	5	1	0.68	0.74	0.06	0	0	0	0	0	0	0	0
3/11/2025 21:04	23203	HIRU_T2	0	0	0	0	0	0	-0.13	-0.18	0	0	0	0	0	0
3/11/2025 21:04	23201	HIRU_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:04	61303	EARL_T1	1	1	0	0.2	0.2	0	0.26	0.25	0	0	0	0	0	0
3/11/2025 21:04	61304	EARL_T1	245	315	70	0.27	0.29	0.02	0	0	0	0	0	0	0	0
3/11/2025 21:04	61306	EARL_T1	15	37	22	0.13	0.15	0.02	0	0	0	0	0	0	0	0
3/11/2025 21:05	57401	SPAN_T1	2	2	0	0.85	1.1	0.25	0	0	0	0	0	0	0	0
3/11/2025 21:05	40502	CRES_T2	10	12	2	0.27	0.33	0.06	0.17	0.17	0	0	0	0	0	0
3/11/2025 21:05	23202	HIRU_T2	0	0	0	0	0	0	0.08	0.07	0	0	0	0	0	0
3/11/2025 21:05	23201	HIRU_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:05	62607	ENGL_T1	0	0	0	0	0	0	-0.85	-0.86	0	0	0	0	0	0
3/11/2025 21:05	40501	CRES_T2	10	9	-1	0.31	0.24	-0.07	0	0	0	0	0	0	0	0
3/11/2025 21:05	66903	SHIL_T2	0	0	0	0	0	0	-1.29	-1.28	0	0	0	0	0	0
3/11/2025 21:06	14402	SSLA_T1	212	339	127	0.27	0.43	0.16	0	0	0	0	0	0	0	0
3/11/2025 21:06	14403	SSLA_T1	5	14	9	0.16	0.21	0.05	0	0	0	0	0	0	0	0
3/11/2025 21:06	55001	NEWP_T1	0	0	0	0	0	0	-0.49	-0.54	0	0	0	0	0	0
3/11/2025 21:06	21204	ECAR_T2	1	2	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:06	57401	SPAN_T1	2	2	0	0.85	1.1	0.25	0	0	0	0	0	0	0	0
3/11/2025 21:06	64904	MILL_T1	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
3/11/2025 21:06	23201	HIRU_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:06	21206	ECAR_T2	1	1	0	8.3	8.3	0	1.22	1.19	0	0	0	0	0	0
3/11/2025 21:06	14404	SSLA_T1	33	127	94	0.13	0.17	0.04	0	0	0	0	0	0	0	0
3/11/2025 21:06	64901	MILL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 21:06	23203	HIRU_T2	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
3/11/2025 21:06	28102	TWLA_T2	4	9	5	0.38	0.31	-0.07	0.17	0.14	0	0	0	0	0	0
3/11/2025 21:06	14401	SSLA_T1	10	72	62	0.27	0.17	-0.1	-0.65	-0.66	0	0	0	0	0	0
3/11/2025 21:06	55002	NEWP_T1	4	5	1	0.68	0.74	0.06	0	0	0	0	0	0	0	0
3/11/2025 21:06	57403	SPAN_T1	0	0	0	0	0	0	-0.09	-0.09	0	0	0	0	0	0
3/11/2025 21:06	41502	FAIR_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
3/11/2025 21:07	66504	SMAN_T2	0	0	0	0	0	0	-1.31	-1.31	0	0	0	0	0	0
3/11/2025 21:07	22601	KIMB_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
3/11/2025 21:07	66001	RHEE_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	900	900	0
3/11/2025 21:07	44702	MUNC_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/11/2025 21:07	20602	GRWO_T2	10	6	-4	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
3/11/2025 21:07	47104	MARL_T1	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
3/11/2025 21:07	66501	SMAN_T2	0	9	9	0	0.17	0.17	0	0	0	0	0	0	0	0
3/11/2025 21:07	66505	SMAN_T2	3	3	0	1.13	1.73	0.6	0	0	0	0	0	0	0	0
3/11/2025 21:07	28805	LAKE_T1	0	1	1	0	0	0	-0.26	-0.26	0	0	0	0	0	0
3/11/2025 21:07	40502	CRES_T2	10	12	2	0.27	0.33	0.06	0.17	0.17	0	0	0	0	0	0
3/11/2025 21:07	66902	SHIL_T2	0	0	0	0	0	0	-1.06	-1.09	0	0	0	0	0	0
3/11/2025 21:07	67502	WEWI_T2	30	253	223	0.12	0.23	0.11	0	0	0	0	0	0	0	0
3/11/2025 21:07	20603	GRWO_T2	94	99	5	0.35	0.31	-0.04	0.3	0.31	0	0	0	0	0	0
3/11/2025 21:07	67503	WEWI_T2	13	105	92	0.12	0.18	0.06	0	0	0	0	0	0	0	0
3/11/2025 21:07	48302	ORWI_T2	7	44	37	2.73	0.64	-2.09	-0.18	-0.17	0	0	0	0	0	0
3/11/2025 21:07	44701	MUNC_T2	32	56	24	0.13	0.15	0.02	-1.47	-1.51	0	0	0	0	0	0
3/11/2025 21:07	48303	ORWI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 21:07	40501	CRES_T2	10	9	-1	0.31	0.24	-0.07	0	0	0	0	0	0	0	0
3/11/2025 21:08	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:08	14401	SSLA_T1	10	72	62	0.27	0.17	-0.1	-1.32	-1.32	0	0	0	0	0	0
3/11/2025 21:08	44802	EDAN_T2	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
3/11/2025 21:08	42401	GIMA_T1	60	45	-15	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
3/11/2025 21:08	23201	HIRU_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:08	14802	TREI_T2	14	24	10	0.32	0.28	-0.04	0.28	0.27	0	0	0	0	0	0
3/11/2025 21:08	14403	SSLA_T1	5	14	9	0.16	0.21	0.05	0	0	0	0	0	0	0	0
3/11/2025 21:08	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:08	14801	TREI_T2	80	96	16	0.24	0.29	0.05	0	0	0	0	0	0	0	0
3/11/2025 21:08	16302	ALPA_T2	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
3/11/2025 21:08	23202	HIRU_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:08	55002	NEWP_T1	4	5	1	0.68	0.74	0.06	-0.93	-0.99	0	0	0	0	0	0
3/11/2025 21:08	14402	SSLA_T1	212	339	127	0.27	0.43	0.16	0	0	0	0	0	0	0	0
3/11/2025 21:08	10205	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:08	10101	ALLE_T3	2	2	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
3/11/2025 21:08	43202	MVIL_T2	136	165	29	0.76	0.96	0.2	-0.75	-0.75	0	0	0	0	0	0
3/11/2025 21:08	14404	SSLA_T1	33	127	94	0.13	0.17	0.04	0	0	0	0	0	0	0	0
3/11/2025 21:08	15104	UPHA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:08	17805	GILB_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
3/11/2025 21:09	15702	TANN_T2	2	21	19	0.1	0.14	0.04	-0.53	-0.53	0	0	0	0	0	0
3/11/2025 21:09	63501	HEID_T8X1-2	33	56	23	0.23	0.31	0.08	0.27	0.23	0	0	0	0	0	0
3/11/2025 21:09	20602	GRWO_T2	10	6	-4	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
3/11/2025 21:09	17802	GILB_T1	0	1	1	0	0.2	0.2	0.01	0	0	0	0	0	0	0
3/11/2025 21:09	46602	LACR_T1	0	0	0	0	0	0	-0.77	-0.8	0	0	0	0	0	0
3/11/2025 21:09	20601	GRWO_T2	0	0	0	0	0	0	1.94	1.94	0	0	0	0	0	0
3/11/2025 21:09	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:09	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:09	20603	GRWO_T2	94	99	5	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
3/11/2025 21:10	40301	TAMA_T3	14	8	-6	0.26	0.29	0.03	1.31	1.35	2	2	0	1800	1800	0
3/11/2025 21:10	61304	EARL_T1	245	315	70	0.27	0.29	0.02	0	0	0	0	0	0	0	0
3/11/2025 21:10	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
3/11/2025 21:10	47104	MARL_T1	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
3/11/2025 21:10	64502	LAVI_T1	192	100	-92	0.22	0.16	-0.06	0	0	0	0	0	0	0	0
3/11/2025 21:10	64203	KINZ_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
3/11/2025 21:10	40302	TAMA_T3	51	50	-1	0.56	0.61	0.05	0	0	0	0	0	0	0	0
3/11/2025 21:10	41301	FISH_T1	8	12	4	0.24	0.32	0.08	-0.35	-0.37	0	0	0	0	0	0
3/11/2025 21:10	14403	SSLA_T1	5	14	9	0.16	0.21	0.05	0	0	0	0	0	0	0	0
3/11/2025 21:10	14801	TREI_T2	80	96	16	0.24	0.29	0.05	0.31	0.31	0	0	0	0	0	0
3/11/2025 21:10	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
3/11/2025 21:10	67106	SPRI_T2	0	0	0	0	0	0	-1.35	-1.36	1	1	0	900	900	0
3/11/2025 21:10	16102	BING_T2	1	4	3	0.2	0.2	0	0	0	0	0	0	0	0	0
3/11/2025 21:10	46203	DANV_T2	43	117	74	0.19	0.3	0.11	0.09	0.05	0	0	0	0	0	0
3/11/2025 21:10	10205	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:10	64202	KINZ_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/11/2025 21:10	16301	ALPA_T1	0	0	0	0	0	0	-0.18	-0.16	0	0	0	0	0	0
3/11/2025 21:10	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:10	64204	KINZ_T1	1	1	0	1	1.5	0.5	0	0	0	0	0	0	0	0
3/11/2025 21:10	16103	BING_T2	0	0	0	0	0	0	-0.58	-0.6	1	1	0	900	900	0
3/11/2025 21:10	14401	SSLA_T1	10	72	62	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:10	40504	CRES_T1	12	50	38	0.12	0.2	0.08	0	0	0	0	0	0	0	0
3/11/2025 21:10	14402	SSLA_T1	212	339	127	0.27	0.43	0.16	0	0	0	0	0	0	0	0
3/11/2025 21:10	22101	EDEL_T2	0	0	0	0	0	0	0.28	0.37	1	1	0	1200	1200	0
3/11/2025 21:10	14404	SSLA_T1	33	127	94	0.13	0.17	0.04	-0.15	-0.16	0	0	0	0	0	0
3/11/2025 21:10	61306	EARL_T1	15	37	22	0.13	0.15	0.02	0	0	0	0	0	0	0	0
3/11/2025 21:10	14802	TREI_T2	14	24	10	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
3/11/2025 21:10	61303	EARL_T1	1	1	0	0.2	0.2	0	0.25	0.32	0	0	0	0	0	0
3/11/2025 21:10	64201	KINZ_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
3/11/2025 21:10	62607	ENGL_T1	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
3/11/2025 21:10	40502	CRES_T2	10	12	2	0.27	0.33	0.06	0.17	0.17	0	0	0	0	0	0
3/11/2025 21:10	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/11/2025 21:10	16302	ALPA_T2	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
3/11/2025 21:10	67204	TEHI_T2	0	39	39	0	0.12	0.12	0.03	0.03	0	0	0	0	0	0
3/11/2025 21:10	40505	CRES_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
3/11/2025 21:10	63501	HEID_TBK1-2	33	56	23	0.23	0.31	0.08	0.53	0.45	0	0	0	0	0	0
3/11/2025 21:10	64501	LAVI_T1	62	53	-9	0.22	0.18	-0.04	-0.38	-0.32	0	0	0	0	0	0
3/11/2025 21:10	40303	TAMA_T3	9	8	-1	0.44	0.5	0.06	0	0	0	0	0	0	0	0
3/11/2025 21:10	10101	ALLE_T3	2	2	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
3/11/2025 21:10	10903	COOP_T2	13	33	20	0.1	0.16	0.06	-0.51	-0.53	1	1	0	600	600	0
3/11/2025 21:10	64503	LAVI_T1	30	28	-2	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
3/11/2025 21:10	47101	MARL_T1	0	0	0	0	0	0	-1.31	-1.34	0	0	0	0	0	0
3/11/2025 21:10	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:10	40501	CRES_T2	10	9	-1	0.31	0.24	-0.07	0	0	0	0	0	0	0	0
3/11/2025 21:11	61304	EARL_T1	245	315	70	0.27	0.29	0.02	-0.88	-0.9	0	0	0	0	0	0
3/11/2025 21:11	53903	HALI_T2	2	2	0	1.4	1.55	0.15	0	0	0	0	0	0	0	0
3/11/2025 21:11	44302	BEAV_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
3/11/2025 21:11	20403	ASHF_T2	3	16	13	0.13	0.19	0.06	0.06	0.04	0	0	0	0	0	0
3/11/2025 21:11	40201	BEGA_T2	5	8	3	0.28	0.33	0.05	0	0	0	0	0	0	0	0
3/11/2025 21:11	66505	SMAN_T2	3	3	0	1.13	1.73	0.6	0	0	0	0	0	0	0	0
3/11/2025 21:11	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:11	23901	EFMO_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
3/11/2025 21:11	40501	CRES_T2	10	9	-1	0.31	0.24	-0.07	0	0	0	0	0	0	0	0
3/11/2025 21:11	53901	HALI_T2	1	1	0	0.5	0.6	0.1	-3.3	-3.39	0	0	0	0	0	0
3/11/2025 21:11	20401	ASHF_T2	8	14	6	0.45	0.44	-0.01	0	0	0	0	0	0	0	0
3/11/2025 21:11	54203	PENN_T1	18	18	0	1.02	1.21	0.19	0.53	0.55	0	0	0	0	0	0
3/11/2025 21:11	21204	ECAR_T2	1	2	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:11	62606	ENGL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:11	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:11	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.2	0	0	0	0	0	0
3/11/2025 21:11	27201	YATE_T1	10	10	0	5.49	5.34	-0.15	-2.42	-2.06	0	0	0	0	0	0
3/11/2025 21:11	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:11	65702	RVIL_T2	0	0	0	0	0	0	-2.16	-2.16	0	0	0	0	0	0
3/11/2025 21:11	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:11	41205	KENM_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
3/11/2025 21:11	60201	ATGL_T2	0	0	0	0	0	0	0.78	0.66	0	0	0	0	0	0
3/11/2025 21:11	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:11	61306	EARL_T1	15	37	22	0.13	0.15	0.02	0.06	0.08	0	0	0	0	0	0
3/11/2025 21:11	44301	BEAV_T2	0	0	0	0	0	0	-0.13	0.23	1	1	0	600	600	0
3/11/2025 21:11	54701	NEBL_T1	7	8	1	0.93	1.16	0.23	0	0	0	0	0	0	0	0
3/11/2025 21:11	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:11	21206	ECAR_T2	1	1	0	8.3	8.3	0	1.19	1.16	0	0	0	0	0	0
3/11/2025 21:11	41202	KENM_T2	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
3/11/2025 21:11	53902	HALI_T2	1	1	0	5.5	5.8	0.3	0	0	0	0	0	0	0	0
3/11/2025 21:11	46001	BERW_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
3/11/2025 21:11	45902	AUBU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
3/11/2025 21:11	67402	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:11	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:11	66501	SMAN_T2	0	9	9	0	0.17	0.17	0	0	0	0	0	0	0	0
3/11/2025 21:11	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:11	60301	TWVA_T2	0	0	0	0	0	0	-1.36	-1.39	1	1	0	1200	1200	0
3/11/2025 21:11	41201	KENM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 21:11	54201	PENN_T1	10	11	1	0.69	0.71	0.02	0.16	0.16	0	0	0	0	0	0
3/11/2025 21:11	40504	CRES_T1	12	50	38	0.12	0.2	0.08	0	0	0	0	0	0	0	0
3/11/2025 21:11	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:11	40505	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:11	47901	HRDG_T1	0	0	0	0	0	0	0.8	1.27	0	0	0	0	0	0
3/11/2025 21:11	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 21:11	43301	WATS_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
3/11/2025 21:11	60101	COCA_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
3/11/2025 21:11	40101	HUNT_T2	0	0	0	0	0	0	-1.8	-1.81	0	0	0	0	0	0
3/11/2025 21:11	40502	CRES_T2	10	12	2	0.27	0.33	0.06	0.68	0.68	0	0	0	0	0	0
3/11/2025 21:11	43302	WATS_T2	4	4	0	0.23	0.35	0.12	0	0	0	0	0	0	0	0
3/11/2025 21:11	44802	EDAN_T2	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
3/11/2025 21:11	63601	LETO_T1	0	0	0	0	0	0	1.32	1.1	1	1	0	900	900	0
3/11/2025 21:11	54502	ENOL_T2	1	1	0	0.3	0.7	0.4	-1.45	-1.43	0	0	0	0	0	0
3/11/2025 21:11	41901	REED_T1	1	9	8	0.2	0.22	0.02	0	0	0	0	0	0	0	0
3/11/2025 21:11	61303	EARL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/11/2025 21:11	54501	ENOL_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
3/11/2025 21:12	46001	BERW_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
3/11/2025 21:12	15602	NSTR_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/11/2025 21:12	14403	SSLA_T1	5	14	9	0.16	0.21	0.05	0	0	0	0	0	0	0	0
3/11/2025 21:12	11202	ELHE_T2	0	0	0	0	0	0	0.35	0.36	1	1	0	1200	1200	0
3/11/2025 21:12	45902	AUBU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
3/11/2025 21:12	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:12	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:12	60801	BUCK_T1	1	13	12	0.1	0.12	0.02	-0.28	-0.3	0	0	0	0	0	0
3/11/2025 21:12	66901	SHIL_T2	0	0	0	0	0	0	-1.86	-1.8	0	0	0	0	0	0
3/11/2025 21:12	17102	WTRE_T2	0	0	0	0	0	0	-0.01	0	2	2	0	2400	2400	0
3/11/2025 21:12	60101	COCA_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
3/11/2025 21:12	14402	SSLA_T1	212	339	127	0.27	0.43	0.16	0	0	0	0	0	0	0	0
3/11/2025 21:12	17802	GILB_T1	0	1	1	0	0.2	0.2	0.01	0	0	0	0	0	0	0
3/11/2025 21:12	10101	ALLE_T3	2	2	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
3/11/2025 21:12	11302	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:12	29201	APPE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:12	54501	ENOL_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
3/11/2025 21:12	62605	ENGL_T1	0	0	0	0	0	0	-1.82	-1.84	0	0	0	0	0	0
3/11/2025 21:12	13302	ORVI_T2	0	0	0	0	0	0	1.3	1.32	0	0	0	0	0	0
3/11/2025 21:12	42802	SELI_T1	0	2	2	0	4.3	4.3	-1.39	-1.39	1	1	0	900	900	0
3/11/2025 21:12	59201	THOM_T1	126	147	21	0.78	0.91	0.13	0	0	0	0	0	0	0	0
3/11/2025 21:12	40505	CRES_T1	0	0	0	0	0	0	0.62	0.66	0	0	0	0	0	0
3/11/2025 21:12	66502	SMAN_T2	0	0	0	0	0	0	-0.28	-0.05	0	0	0	0	0	0
3/11/2025 21:12	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:12	14802	TREI_T2	14	24	10	0.32	0.28	-0.04	0.28	0.27	0	0	0	0	0	0
3/11/2025 21:12	51101	CARL_T1	1	1	0	5.3	5	-0.3	0	0	0	0	0	0	0	0
3/11/2025 21:12	51107	CARL_T1	14	67	53	0.25	0.26	0.01	0	0	0	0	0	0	0	0
3/11/2025 21:12	61304	EARL_T1	245	315	70	0.27	0.29	0.02	0	0	0	0	0	0	0	0
3/11/2025 21:12	10903	COOP_T2	13	33	20	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/11/2025 21:12	54502	ENOL_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
3/11/2025 21:12	14401	SSLA_T1	10	72	62	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:12	54503	ENOL_T2	0	0	0	0	0	0	-0.51	-0.51	1	1	0	600	600	0
3/11/2025 21:12	16302	ALPA_T2	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
3/11/2025 21:12	10205	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:12	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 21:12	40501	CRES_T2	10	9	-1	0.31	0.24	-0.07	0	0	0	0	0	0	0	0
3/11/2025 21:12	47104	MARL_T1	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
3/11/2025 21:12	43802	SWIL_T1	0	0	0	0	0	0	-0.31	-0.33	1	1	0	600	600	0
3/11/2025 21:12	46203	DANV_T2	43	117	74	0.19	0.3	0.11	0.09	0.05	0	0	0	0	0	0
3/11/2025 21:12	60803	BUCK_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 21:12	15601	NSTR_T2	3	3	0	1	0.67	-0.33	0	0	0	0	0	0	0	0
3/11/2025 21:12	61306	EARL_T1	15	37	22	0.13	0.15	0.02	0	0	0	0	0	0	0	0
3/11/2025 21:12	44502	HAMI_T2	1	1	0	3.3	3.6	0.3	0	0	0	0	0	0	0	0
3/11/2025 21:12	66505	SMAN_T2	3	3	0	1.13	1.73	0.6	0	0	0	0	0	0	0	0
3/11/2025 21:12	47901	HRDG_T1	0	0	0	0	0	0	0.8	1.27	0	0	0	0	0	0
3/11/2025 21:12	51102	CARL_T1	1	63	62	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/11/2025 21:12	43402	BENT_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	900	900	0
3/11/2025 21:12	40502	CRES_T2	10	12	2	0.27	0.33	0.06	0.17	0.17	0	0	0	0	0	0
3/11/2025 21:12	59202	THOM_T1	736	839	103	1.04	1.19	0.15	0	0	0	0	0	0	0	0
3/11/2025 21:12	46101	MACJ_T2	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
3/11/2025 21:12	54001	SDLE_T1	88	141	53	0.34	0.27	-0.07	0	0	0	0	0	0	0	0
3/11/2025 21:12	14801	TREI_T2	80	96	16	0.24	0.29	0.05	0.31	0.31	0	0	0	0	0	0
3/11/2025 21:12	63501	HEID_TBK1-2	33	56	23	0.23	0.31	0.08	0	0	0	0	0	0	0	0
3/11/2025 21:12	17101	WTRE_T2	2	2	0	7.65	7.95	0.3	0	0	0	0	0	0	0	0
3/11/2025 21:12	61303	EARL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/11/2025 21:12	43801	SWIL_T1	5	6	1	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
3/11/2025 21:12	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:12	15103	UPHA_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
3/11/2025 21:12	20401	ASHF_T2	8	14	6	0.45	0.44	-0.01	0.28	0.25	0	0	0	0	0	0
3/11/2025 21:12	20403	ASHF_T2	3	16	13	0.13	0.19	0.06	0	0	0	0	0	0	0	0
3/11/2025 21:12	66501	SMAN_T2	0	9	9	0	0.17	0.17	0	0	0	0	0	0	0	0
3/11/2025 21:12	17805	GILB_T2	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
3/11/2025 21:12	14404	SSLA_T1	33	127	94	0.13	0.17	0.04	0	0	0	0	0	0	0	0
3/11/2025 21:12	64704	LITI_T1	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
3/11/2025 21:12	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:12	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:12	66504	SMAN_T2	0	0	0	0	0	0	-1.31	-1.31	0	0	0	0	0	0
3/11/2025 21:12	40504	CRES_T1	12	50	38	0.12	0.2	0.08	-0.6	-0.63	0	0	0	0	0	0
3/11/2025 21:12	10801	CHHI_T1	0	1	1	0	0	0	-1.12	-1.13	1	1	0	900	900	0
3/11/2025 21:12	13303	ORVI_T1	0	0	0	0	0	0	0.68	0.77	0	0	0	0	0	0
3/11/2025 21:12	65802	RTWN_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
3/11/2025 21:13	61304	EARL_T1	245	315	70	0.27	0.29	0.02	0	0	0	0	0	0	0	0
3/11/2025 21:13	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:13	53901	HALI_T2	1	1	0	0.5	0.6	0.1	-2.2	-2.26	0	0	0	0	0	0
3/11/2025 21:13	46903	MNTG_T2	0	0	0	0	0	0	-0.83	-0.87	1	1	0	600	600	0
3/11/2025 21:13	61306	EARL_T1	15	37	22	0.13	0.15	0.02	0	0	0	0	0	0	0	0
3/11/2025 21:13	53902	HALI_T2	1	1	0	5.5	5.8	0.3	0	0	0	0	0	0	0	0
3/11/2025 21:13	44802	EDAN_T2	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
3/11/2025 21:13	47401	PENS_T1	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
3/11/2025 21:13	54501	ENOL_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
3/11/2025 21:13	67602	WARW_T2	0	0	0	0	0	0	1.21	1.27	1	1	0	300	300	0
3/11/2025 21:13	51107	CARL_T1	14	67	53	0.25	0.26	0.01	0	0	0	0	0	0	0	0
3/11/2025 21:13	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:13	40501	CRES_T2	10	9	-1	0.31	0.24	-0.07	0	0	0	0	0	0	0	0
3/11/2025 21:13	54503	ENOL_T2	0	0	0	0	0	0	-0.51	-0.51	1	1	0	600	600	0
3/11/2025 21:13	43202	MVIL_T2	136	165	29	0.76	0.96	0.2	-0.75	-0.75	0	0	0	0	0	0
3/11/2025 21:13	20603	GRWO_T2	94	99	5	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
3/11/2025 21:13	62607	ENGL_T1	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
3/11/2025 21:13	54502	ENOL_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
3/11/2025 21:13	40504	CRES_T1	12	50	38	0.12	0.2	0.08	0	0	0	0	0	0	0	0
3/11/2025 21:13	66903	SHIL_T2	0	0	0	0	0	0	-1.28	-1.29	0	0	0	0	0	0
3/11/2025 21:13	66501	SMAN_T2	0	9	9	0	0.17	0.17	0	0	0	0	0	0	0	0
3/11/2025 21:13	52502	PROG_T2	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
3/11/2025 21:13	44801	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:13	54505	ENOL_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:13	66505	SMAN_T2	3	3	0	1.13	1.73	0.6	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/11/2025 21:13	53903	HALI_T2	2	2	0	1.4	1.55	0.15	-0.21	-0.21	0	0	0	0	0	0
3/11/2025 21:13	54001	SDLE_T1	88	141	53	0.34	0.27	-0.07	0	0	0	0	0	0	0	0
3/11/2025 21:13	41902	REED_T1	0	0	0	0	0	0	0.92	0.86	0	0	0	0	0	0
3/11/2025 21:13	53501	EVIL_T2	2	1	-1	0.35	0.4	0.05	-0.12	-0.16	0	0	0	0	0	0
3/11/2025 21:13	43801	SWIL_T1	5	6	1	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
3/11/2025 21:13	20602	GRWO_T2	10	6	-4	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
3/11/2025 21:13	59201	THOM_T1	126	147	21	0.78	0.91	0.13	0	0	0	0	0	0	0	0
3/11/2025 21:13	41901	REED_T1	1	9	8	0.2	0.22	0.02	0	0	0	0	0	0	0	0
3/11/2025 21:13	61801	EELI_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
3/11/2025 21:13	59202	THOM_T1	736	839	103	1.04	1.19	0.15	0	0	0	0	0	0	0	0
3/11/2025 21:13	67106	SPRI_T2	0	0	0	0	0	0	-1.35	-1.36	1	1	0	900	900	0
3/11/2025 21:13	51102	CARL_T1	1	63	62	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/11/2025 21:13	66001	RHEE_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	900	900	0
3/11/2025 21:13	40502	CRES_T2	10	12	2	0.27	0.33	0.06	0.17	0.17	0	0	0	0	0	0
3/11/2025 21:13	20601	GRWO_T2	0	0	0	0	0	0	0.97	0.97	0	0	0	0	0	0
3/11/2025 21:13	43802	SWIL_T1	0	0	0	0	0	0	-0.31	-0.33	1	1	0	600	600	0
3/11/2025 21:13	51101	CARL_T1	1	1	0	5.3	5	-0.3	-1.27	-1.31	0	0	0	0	0	0
3/11/2025 21:13	61303	EARL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/11/2025 21:13	61802	EELI_T2	0	0	0	0	0	0	-0.38	-0.4	0	0	0	0	0	0
3/11/2025 21:14	14802	TREI_T2	14	24	10	0.32	0.28	-0.04	0.56	0.54	0	0	0	0	0	0
3/11/2025 21:14	59202	THOM_T1	736	839	103	1.04	1.19	0.15	0	0	0	0	0	0	0	0
3/11/2025 21:14	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:14	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:14	54203	PENN_T1	18	18	0	1.02	1.21	0.19	0	0	0	0	0	0	0	0
3/11/2025 21:14	10101	ALLE_T3	2	2	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
3/11/2025 21:14	21203	ECAR_T1	0	0	0	0	0	0	-0.57	-0.55	0	0	0	0	0	0
3/11/2025 21:14	62607	ENGL_T1	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
3/11/2025 21:14	54001	SDLE_T1	88	141	53	0.34	0.27	-0.07	0	0	0	0	0	0	0	0
3/11/2025 21:14	61306	EARL_T1	15	37	22	0.13	0.15	0.02	0	0	0	0	0	0	0	0
3/11/2025 21:14	46002	BERW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:14	14402	SSLA_T1	212	339	127	0.27	0.43	0.16	0	0	0	0	0	0	0	0
3/11/2025 21:14	54201	PENN_T1	10	11	1	0.69	0.71	0.02	0.16	0.16	0	0	0	0	0	0
3/11/2025 21:14	47102	MARL_T2	17	17	0	0.17	0.23	0.06	0	0	0	0	0	0	0	0
3/11/2025 21:14	61304	EARL_T1	245	315	70	0.27	0.29	0.02	0	0	0	0	0	0	0	0
3/11/2025 21:14	10903	COOP_T2	13	33	20	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/11/2025 21:14	14404	SSLA_T1	33	127	94	0.13	0.17	0.04	-0.44	-0.47	0	0	0	0	0	0
3/11/2025 21:14	16302	ALPA_T2	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
3/11/2025 21:14	14801	TREI_T2	80	96	16	0.24	0.29	0.05	0.31	0.31	0	0	0	0	0	0
3/11/2025 21:14	61303	EARL_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/11/2025 21:14	61302	EARL_T1	0	0	0	0	0	0	1.28	1.26	0	0	0	0	0	0
3/11/2025 21:14	59201	THOM_T1	126	147	21	0.78	0.91	0.13	0	0	0	0	0	0	0	0
3/11/2025 21:14	14401	SSLA_T1	10	72	62	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:14	47103	MARL_T2	12	28	16	0.15	0.17	0.02	-0.69	-0.71	0	0	0	0	0	0
3/11/2025 21:14	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:14	62602	ENGL_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
3/11/2025 21:14	15702	TANN_T2	2	21	19	0.1	0.14	0.04	-0.53	-0.53	0	0	0	0	0	0
3/11/2025 21:14	14403	SSLA_T1	5	14	9	0.16	0.21	0.05	0	0	0	0	0	0	0	0
3/11/2025 21:14	60101	COCA_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
3/11/2025 21:14	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:14	13103	NHAM_T2	0	0	0	0	0	0	-1.79	-1.82	1	1	0	600	600	0
3/11/2025 21:14	10205	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:15	63501	HEID_TBK1-2	32	58	26	0.26	0.31	0.05	0.27	0.23	0	0	0	0	0	0
3/11/2025 21:15	52001	LING_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
3/11/2025 21:15	64701	LITI_T1	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
3/11/2025 21:15	46004	BERW_T2	0	0	0	0	0	0	-0.67	-0.67	0	0	0	0	0	0
3/11/2025 21:15	41002	LAUR_T2	4	45	41	0.75	0.3	-0.45	-1.01	-1.02	0	0	0	0	0	0
3/11/2025 21:15	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:15	44902	SCOT_T2	748	755	7	0.55	0.56	0.01	-0.97	-0.99	0	0	0	0	0	0
3/11/2025 21:15	46203	DANV_T2	24	150	126	0.13	0.45	0.32	0.09	0.05	0	0	0	0	0	0
3/11/2025 21:15	40501	CRES_T2	9	9	0	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
3/11/2025 21:15	20601	GRWO_T2	0	0	0	0	0	0	0.97	0.97	0	0	0	0	0	0
3/11/2025 21:15	60803	BUCK_T1	0	14	14	0	0.16	0.16	0	0	0	0	0	0	0	0
3/11/2025 21:15	40504	CRES_T1	36	78	42	0.18	0.2	0.02	0	0	0	0	0	0	0	0
3/11/2025 21:15	61306	EARL_T1	6	87	81	0.15	0.19	0.04	0	0	0	0	0	0	0	0
3/11/2025 21:15	60801	BUCK_T1	0	44	44	0	0.27	0.27	0	0	0	0	0	0	0	0
3/11/2025 21:15	43304	WATS_T2	0	0	0	0	0	0	1.1	1.04	0	0	0	0	0	0
3/11/2025 21:15	43301	WATS_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
3/11/2025 21:15	44505	HAMI_T2	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
3/11/2025 21:15	41202	KENM_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:15	60201	ATGL_T2	0	0	0	0	0	0	1.55	1.32	0	0	0	0	0	0
3/11/2025 21:15	47103	MARL_T2	23	28	5	0.18	0.19	0.01	-0.69	-0.71	0	0	0	0	0	0
3/11/2025 21:15	44901	SCOT_T2	34	40	6	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
3/11/2025 21:15	41201	KENM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 21:15	40302	TAMA_T3	49	48	-1	0.62	0.53	-0.09	0	0	0	0	0	0	0	0
3/11/2025 21:15	20602	GRWO_T2	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:15	67603	WARW_T1	0	0	0	0	0	0	-0.18	-0.18	0	0	0	0	0	0
3/11/2025 21:15	41001	LAUR_T2	0	74	74	0	0.24	0.24	0	0	0	0	0	0	0	0
3/11/2025 21:15	59202	THOM_T1	703	874	171	1.1	1.23	0.13	0	0	0	0	0	0	0	0
3/11/2025 21:15	59201	THOM_T1	118	160	42	0.83	0.94	0.11	0	0	0	0	0	0	0	0
3/11/2025 21:15	43302	WATS_T2	4	4	0	0.2	0.38	0.18	0	0	0	0	0	0	0	0
3/11/2025 21:15	61301	EARL_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
3/11/2025 21:15	40301	TAMA_T3	8	8	0	0.21	0.29	0.08	1.31	1.35	2	2	0	1800	1800	0
3/11/2025 21:15	40902	JESH_T1	0	0	0	0	0	0	-0.96	-0.99	0	0	0	0	0	0
3/11/2025 21:15	67605	WARW_T1	20	39	19	0.64	0.63	-0.01	0	0	0	0	0	0	0	0
3/11/2025 21:15	42503	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:15	48303	ORWI_T2	0	2	2	0	0.1	0.1	0.94	0.9	0	0	0	0	0	0
3/11/2025 21:15	51703	OBER_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:15	42501	ALTA_T2	3	1	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:15	61304	EARL_T1	230	547	317	0.24	0.3	0.06	-0.44	-0.45	0	0	0	0	0	0
3/11/2025 21:15	48302	ORWI_T2	28	44	16	0.89	0.63	-0.26	-0.18	-0.17	0	0	0	0	0	0
3/11/2025 21:15	40303	TAMA_T3	8	7	-1	0.5	0.46	-0.04	0	0	0	0	0	0	0	0
3/11/2025 21:15	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:15	65702	RVIL_T2	0	0	0	0	0	0	-1.08	-1.08	0	0	0	0	0	0
3/11/2025 21:15	44502	HAMI_T2	1	1	0	3.5	3.7	0.2	0.01	0.01	0	0	0	0	0	0
3/11/2025 21:15	40101	HUNT_T2	0	0	0	0	0	0	-1.8	-1.81	0	0	0	0	0	0
3/11/2025 21:15	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.21	0.22	1	1	0	600	600	0
3/11/2025 21:15	43801	SWIL_T1	5	6	1	1.38	1.22	-0.16	0	0	0	0	0	0	0	0
3/11/2025 21:15	40505	CRES_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
3/11/2025 21:15	42504	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:15	40502	CRES_T2	10	16	6	0.29	0.28	-0.01	0.51	0.51	0	0	0	0	0	0
3/11/2025 21:15	51701	OBER_T2	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
3/11/2025 21:15	61303	EARL_T1	0	3	3	0	0.2	0.2	0.25	0.32	0	0	0	0	0	0
3/11/2025 21:15	20603	GRWO_T2	94	84	-10	0.3	0.31	0.01	0	0	0	0	0	0	0	0
3/11/2025 21:15	47102	MARL_T2	17	18	1	0.2	0.22	0.02	0	0	0	0	0	0	0	0
3/11/2025 21:16	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:16	14802	TREI_T2	12	24	12	0.24	0.29	0.05	0.28	0.27	0	0	0	0	0	0
3/11/2025 21:16	43304	WATS_T2	0	0	0	0	0	0	1.1	1.04	0	0	0	0	0	0
3/11/2025 21:16	66001	RHEE_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	900	900	0
3/11/2025 21:16	54203	PENN_T1	18	18	0	1.05	1.38	0.33	1.06	1.1	0	0	0	0	0	0
3/11/2025 21:16	51701	OBER_T2	1	1	0	5.8	5.5	-0.3	-0.4	-0.39	0	0	0	0	0	0
3/11/2025 21:16	53501	EVIL_T2	1	1	0	0.4	0.7	0.3	-0.12	-0.16	0	0	0	0	0	0
3/11/2025 21:16	14402	SSLA_T1	147	352	205	0.23	0.43	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:16	47403	PENS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:16	41002	LAUR_T2	4	45	41	0.75	0.3	-0.45	0	0	0	0	0	0	0	0
3/11/2025 21:16	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/11/2025 21:16	52402	GRPA_T2	77	116	39	0.65	0.78	0.13	0	0	0	0	0	0	0	0
3/11/2025 21:16	46802	HEPB_T1	1	1	0	0.6	0.8	0.2	-0.46	-0.48	0	0	0	0	0	0
3/11/2025 21:16	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:16	66502	SMAN_T2	0	0	0	0	0	0	-0.28	-0.05	0	0	0	0	0	0
3/11/2025 21:16	40504	CRES_T1	36	78	42	0.18	0.2	0.02	-0.6	-0.63	0	0	0	0	0	0
3/11/2025 21:16	61303	EARL_T1	0	3	3	0	0.2	0.2	0.25	0.32	0	0	0	0	0	0
3/11/2025 21:16	64503	LAVI_T1	28	10	-18	0.14	0.12	-0.02	0	0	0	0	0	0	0	0
3/11/2025 21:16	52404	GRPA_T2	6	24	18	0.43	0.33	-0.1	0.44	0.43	0	0	0	0	0	0
3/11/2025 21:16	10801	OHIH_T1	0	1	1	0	0	0	-2.24	-2.26	2	2	0	1800	1800	0
3/11/2025 21:16	52403	GRPA_T2	18	134	116	0.78	0.39	-0.39	0	0	0	0	0	0	0	0
3/11/2025 21:16	46001	BERW_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
3/11/2025 21:16	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/11/2025 21:16	64704	LITI_T1	0	0	0	0	0	0	0.83	0.84	0	0	0	0	0	0
3/11/2025 21:16	43301	WATS_T2	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
3/11/2025 21:16	66505	SMAN_T2	3	3	0	1.3	1.93	0.63	0	0	0	0	0	0	0	0
3/11/2025 21:16	61302	EARL_T1	0	0	0	0	0	0	1.28	1.26	0	0	0	0	0	0
3/11/2025 21:16	40501	CRES_T2	9	9	0	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
3/11/2025 21:16	60801	BUCK_T1	0	44	44	0	0.27	0.27	-0.56	-0.6	0	0	0	0	0	0
3/11/2025 21:16	40505	CRES_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
3/11/2025 21:16	17102	WTRE_T2	0	0	0	0	0	0	-0.01	0	2	2	0	2400	2400	0
3/11/2025 21:16	63601	LETO_T1	0	0	0	0	0	0	1.32	1.1	1	1	0	900	900	0
3/11/2025 21:16	14404	SSLA_T1	10	140	130	0.1	0.18	0.08	-0.15	-0.16	0	0	0	0	0	0
3/11/2025 21:16	54202	PENN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 21:16	60803	BUCK_T1	0	14	14	0	0.16	0.16	0	0	0	0	0	0	0	0
3/11/2025 21:16	54602	SUMM_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
3/11/2025 21:16	44802	EDAN_T2	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
3/11/2025 21:16	17101	WTRE_T2	2	2	0	7.55	8	0.45	0	0	0	0	0	0	0	0
3/11/2025 21:16	54603	SUMM_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:16	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:16	54201	PENN_T1	10	12	2	0.59	0.79	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:16	54601	SUMM_T2	12	13	1	0.5	1.04	0.54	-1.98	-2.02	2	2	0	2100	2100	0
3/11/2025 21:16	43202	EVIL_T2	159	194	35	0.85	1.04	0.19	-1.5	-1.5	0	0	0	0	0	0
3/11/2025 21:16	46504	LOHA_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
3/11/2025 21:16	60101	COCA_T1	0	0	0	0	0	0	0.09	0.1	0	0	0	0	0	0
3/11/2025 21:16	44701	MUNC_T2	7	101	94	0.13	0.21	0.08	-1.47	-1.51	0	0	0	0	0	0
3/11/2025 21:16	28805	LAKE_T1	0	0	0	0	0	0	-0.26	-0.26	0	0	0	0	0	0
3/11/2025 21:16	43302	WATS_T2	4	4	0	0.2	0.38	0.18	0	0	0	0	0	0	0	0
3/11/2025 21:16	54204	PENN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:16	44703	MUNC_T2	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
3/11/2025 21:16	63202	MGTN_T2	0	1	1	0	0	0	-0.11	-0.07	1	1	0	900	900	0
3/11/2025 21:16	54206	PENN_T2	0	21	21	0	0.11	0.11	-0.1	-0.07	0	0	0	0	0	0
3/11/2025 21:16	44301	BEAV_T2	0	0	0	0	0	0	-0.13	0.23	1	1	0	600	600	0
3/11/2025 21:16	46503	LOHA_T1	0	0	0	0	0	0	-1.26	-1.26	0	0	0	0	0	0
3/11/2025 21:16	61304	EARL_T1	230	547	317	0.24	0.3	0.06	-0.88	-0.9	0	0	0	0	0	0
3/11/2025 21:16	67401	WAKE_T2	0	16	16	0	0.12	0.12	-1.1	-1.01	0	0	0	0	0	0
3/11/2025 21:16	61306	EARL_T1	6	87	81	0.15	0.19	0.04	0	0	0	0	0	0	0	0
3/11/2025 21:16	64501	LAVI_T1	53	25	-28	0.18	0.1	-0.08	-0.38	-0.32	0	0	0	0	0	0
3/11/2025 21:16	54505	ENOL_T2	1	1	0	0.8	1.2	0.4	-1.43	-1.46	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/11/2025 21:16	14401	SSLA_T1	8	74	66	0.19	0.17	-0.02	-1.98	-1.98	0	0	0	0	0	0
3/11/2025 21:16	63501	HEID_TBK1-2	32	58	26	0.26	0.31	0.05	0.27	0.23	0	0	0	0	0	0
3/11/2025 21:16	44702	MUNC_T2	1	6	5	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/11/2025 21:16	52401	GRPA_T2	97	288	191	0.24	0.53	0.29	0	0	0	0	0	0	0	0
3/11/2025 21:16	40502	CRES_T2	10	16	6	0.29	0.28	-0.01	0.34	0.34	0	0	0	0	0	0
3/11/2025 21:16	14801	TREI_T2	41	98	57	0.15	0.3	0.15	0	0	0	0	0	0	0	0
3/11/2025 21:16	41001	LAUR_T2	0	74	74	0	0.24	0.24	0	0	0	0	0	0	0	0
3/11/2025 21:16	46506	LOHA_T1	4	4	0	3.68	4.45	0.77	0	0	0	0	0	0	0	0
3/11/2025 21:16	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:16	54501	ENOL_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
3/11/2025 21:16	46004	BERW_T2	0	0	0	0	0	0	-1.34	-1.34	0	0	0	0	0	0
3/11/2025 21:16	22601	KIMB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:16	66902	SHIL_T2	0	0	0	0	0	0	-2.12	-2.18	0	0	0	0	0	0
3/11/2025 21:16	11301	EMMA_T1	0	0	0	0	0	0	-0.98	-0.96	0	0	0	0	0	0
3/11/2025 21:16	64502	LAVI_T1	100	10	-90	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
3/11/2025 21:16	45402	WBLO_T2	1	1	0	1.4	1.3	-0.1	-0.87	-0.85	0	0	0	0	0	0
3/11/2025 21:16	14403	SSLA_T1	3	15	12	0.1	0.21	0.11	0.49	0.51	0	0	0	0	0	0
3/11/2025 21:16	66501	SMAN_T2	0	10	10	0	0.28	0.28	0	0	0	0	0	0	0	0
3/11/2025 21:17	53903	HALI_T2	2	2	0	1.5	1.65	0.15	0	0	0	0	0	0	0	0
3/11/2025 21:17	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:17	22602	KIMB_T1	0	0	0	0	0	0	0.27	0.2	0	0	0	0	0	0
3/11/2025 21:17	54001	SDLE_T1	69	196	127	0.28	0.31	0.03	0	0	0	0	0	0	0	0
3/11/2025 21:17	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/11/2025 21:17	52006	LING_T2	2	2	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
3/11/2025 21:17	53501	EVIL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/11/2025 21:17	52004	LING_T2	2	2	0	6.35	6.55	0.2	0	0.04	0	0	0	0	0	0
3/11/2025 21:17	62607	ENGL_T1	0	0	0	0	0	0	-0.86	-0.84	0	0	0	0	0	0
3/11/2025 21:17	42504	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:17	66505	SMAN_T2	3	3	0	1.3	1.93	0.63	-0.33	-0.35	1	1	0	900	900	0
3/11/2025 21:17	40501	CRES_T2	9	9	0	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
3/11/2025 21:17	44302	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:17	54505	ENOL_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
3/11/2025 21:17	20603	GRWO_T2	94	84	-10	0.3	0.31	0.01	0	0	0	0	0	0	0	0
3/11/2025 21:17	44802	EDAN_T2	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
3/11/2025 21:17	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:17	61303	EARL_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:17	61304	EARL_T1	230	547	317	0.24	0.3	0.06	0	0	0	0	0	0	0	0
3/11/2025 21:17	62601	ENGL_T1	0	0	0	0	0	0	-0.14	-0.18	0	0	0	0	0	0
3/11/2025 21:17	52002	LING_T2	1	1	0	0.6	1.3	0.7	0	0	0	0	0	0	0	0
3/11/2025 21:17	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.02	0	0	0	0	0	0
3/11/2025 21:17	44502	HAMI_T2	1	1	0	3.5	3.7	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:17	46001	BERW_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
3/11/2025 21:17	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:17	20401	ASHF_T2	9	14	5	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
3/11/2025 21:17	65802	RTWN_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
3/11/2025 21:17	44505	HAMI_T2	0	0	0	0	0	0	0.43	0.45	0	0	0	0	0	0
3/11/2025 21:17	42802	SEU_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/11/2025 21:17	42503	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:17	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:17	15703	TANN_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
3/11/2025 21:17	66504	SMAN_T2	0	1	1	0	0.2	0.2	-0.65	-0.66	0	0	0	0	0	0
3/11/2025 21:17	20601	GRWO_T2	0	0	0	0	0	0	0.97	0.97	0	0	0	0	0	0
3/11/2025 21:17	46102	MACI_T1	20	9	-11	0.17	0.14	-0.03	0.62	0.62	0	0	0	0	0	0
3/11/2025 21:17	54501	ENOL_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
3/11/2025 21:17	43302	WATS_T2	4	4	0	0.2	0.38	0.18	-0.81	-0.8	2	2	0	1800	1800	0
3/11/2025 21:17	61301	EARL_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
3/11/2025 21:17	40504	CRES_T1	36	78	42	0.18	0.2	0.02	-1.2	-1.26	0	0	0	0	0	0
3/11/2025 21:17	41901	REED_T1	6	9	3	0.17	0.22	0.05	0	0	0	0	0	0	0	0
3/11/2025 21:17	53901	HALI_T2	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:17	60801	BUCK_T1	0	44	44	0	0.27	0.27	-0.28	-0.3	0	0	0	0	0	0
3/11/2025 21:17	67201	TEHI_T1	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
3/11/2025 21:17	43304	WATS_T2	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
3/11/2025 21:17	20602	GRWO_T2	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:17	15702	TANN_T2	0	21	21	0	0.14	0.14	-0.53	-0.53	0	0	0	0	0	0
3/11/2025 21:17	46203	DANV_T2	24	150	126	0.13	0.45	0.32	0.09	0.05	0	0	0	0	0	0
3/11/2025 21:17	63501	HEID_TBK1-2	32	58	26	0.26	0.31	0.05	0.27	0.23	0	0	0	0	0	0
3/11/2025 21:17	40902	JESH_T1	0	0	0	0	0	0	-0.96	-0.99	0	0	0	0	0	0
3/11/2025 21:17	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:17	41902	REED_T1	0	0	0	0	0	0	1.84	1.72	0	0	0	0	0	0
3/11/2025 21:17	40502	CRES_T2	10	16	6	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
3/11/2025 21:17	58401	MORO_T1	0	0	0	0	0	0	-1.38	-1.4	1	1	0	600	600	0
3/11/2025 21:17	62606	ENGL_T1	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
3/11/2025 21:17	46801	HEPB_T2	2	2	0	0.45	0.8	0.35	0.42	0.43	0	0	0	0	0	0
3/11/2025 21:17	23901	EFMO_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
3/11/2025 21:17	54504	ENOL_T2	0	0	0	0	0	0	-1.16	-1.17	1	1	0	600	600	0
3/11/2025 21:17	42501	ALTA_T2	3	1	-2	0.1	0	-0.1	0.57	0.59	0	0	0	0	0	0
3/11/2025 21:17	67401	WAKE_T2	0	16	16	0	0.12	0.12	-1.1	-1.01	0	0	0	0	0	0
3/11/2025 21:17	42201	SHEN_T2	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
3/11/2025 21:17	60803	BUCK_T1	0	14	14	0	0.16	0.16	0	0	0	0	0	0	0	0
3/11/2025 21:17	43202	MVIL_T2	159	194	35	0.85	1.04	0.19	-0.75	-0.75	0	0	0	0	0	0
3/11/2025 21:17	20403	ASHF_T2	1	16	15	0.1	0.19	0.09	0.03	0.02	0	0	0	0	0	0
3/11/2025 21:17	61306	EARL_T1	6	87	81	0.15	0.19	0.04	0.03	0.04	0	0	0	0	0	0
3/11/2025 21:17	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.21	0.22	1	1	0	600	600	0
3/11/2025 21:17	59402	RFLD_T2	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
3/11/2025 21:17	47401	PENS_T1	0	0	0	0	0	0	0.68	0.68	0	0	0	0	0	0
3/11/2025 21:17	60201	ATGL_T2	0	0	0	0	0	0	0.78	0.66	0	0	0	0	0	0
3/11/2025 21:17	52204	DEVO_T2	3	1	-2	2.43	6.7	4.27	0	0	0	0	0	0	0	0
3/11/2025 21:17	20402	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/11/2025 21:17	66501	SMAN_T2	0	10	10	0	0.28	0.28	0	0	0	0	0	0	0	0
3/11/2025 21:17	67602	WARW_T2	0	0	0	0	0	0	1.21	1.27	1	1	0	300	300	0
3/11/2025 21:17	52101	MEIS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/11/2025 21:17	21601	EYNO_T1	30	3	-27	0.34	0	-0.34	0.51	0.45	0	0	0	0	0	0
3/11/2025 21:18	54701	NEBL_T1	7	8	1	1.11	1.36	0.25	0	0	0	0	0	0	0	0
3/11/2025 21:18	62605	ENGL_T1	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
3/11/2025 21:18	64101	REFR_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
3/11/2025 21:18	46001	BERW_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
3/11/2025 21:18	54204	PENN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:18	52401	GRPA_T2	97	288	191	0.24	0.53	0.29	-0.75	-0.75	0	0	0	0	0	0
3/11/2025 21:18	59202	THOM_T1	703	874	171	1.1	1.23	0.13	0	0	0	0	0	0	0	0
3/11/2025 21:18	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:18	50506	MECH_T1	0	0	0	0	0	0	-0.09	-0.15	0	0	0	0	0	0
3/11/2025 21:18	42903	MIDD_T2	0	0	0	0	0	0	-0.38	-0.42	0	0	0	0	0	0
3/11/2025 21:18	14801	TREI_T2	41	98	57	0.15	0.3	0.15	0	0	0	0	0	0	0	0
3/11/2025 21:18	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/11/2025 21:18	54206	PENN_T2	0	21	21	0	0.11	0.11	-0.1	-0.07	0	0	0	0	0	0
3/11/2025 21:18	53901	HALI_T2	1	2	1	0.6	0.5	-0.1	-1.1	-1.13	0	0	0	0	0	0
3/11/2025 21:18	54602	SUMM_T2	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
3/11/2025 21:18	65802	RTWN_T2	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
3/11/2025 21:18	66505	SMAN_T2	3	3	0	1.3	1.93	0.63	-0.33	-0.35	1	1	0	900	900	0
3/11/2025 21:18	59201	THOM_T1	118	160	42	0.83	0.94	0.11	0	0	0	0	0	0	0	0
3/11/2025 21:18	52404	GRPA_T2	6	24	18	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:18	67106	SPRI_T2	0	0	0	0	0	0	-1.35	-1.36	1	1	0	900	900	0
3/11/2025 21:18	29201	APPE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:18	63501	HEID_TBK1-2	32	58	26	0.26	0.31	0.05	0.27	0.23	0	0	0	0	0	0
3/11/2025 21:18	43304	WATS_T2	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
3/11/2025 21:18	67401	WAKE_T2	0	16	16	0	0.12	0.12	-1.1	-1.01	0	0	0	0	0	0
3/11/2025 21:18	54501	ENOL_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
3/11/2025 21:18	52402	GRPA_T2	77	116	39	0.65	0.78	0.13	0	0	0	0	0	0	0	0
3/11/2025 21:18	61302	EARL_T1	0	0	0	0	0	0	1.28	1.26	0	0	0	0	0	0
3/11/2025 21:18	66903	SHIL_T2	0	0	0	0	0	0	-2.56	-2.58	0	0	0	0	0	0
3/11/2025 21:18	54505	ENOL_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
3/11/2025 21:18	67402	WAKE_T2	0	0	0	0	0	0	0.26	0.22	0	0	0	0	0	0
3/11/2025 21:18	54603	SUMM_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:18	61801	EELI_T2	2	2	0	0.2	0.55	0.35	0	0	0	0	0	0	0	0
3/11/2025 21:18	46803	HEPB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:18	13302	ORVI_T2	0	0	0	0	0	0	1.3	1.32	0	0	0	0	0	0
3/11/2025 21:18	54202	PENN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 21:18	66502	SMAN_T2	0	0	0	0	0	0	-0.42	-0.07	0	0	0	0	0	0
3/11/2025 21:18	66504	SMAN_T2	0	1	1	0	0.2	0.2	-0.65	-0.66	0	0	0	0	0	0
3/11/2025 21:18	61306	EARL_T1	6	87	81	0.15	0.19	0.04	0.03	0.04	0	0	0	0	0	0
3/11/2025 21:18	14401	SSLA_T1	8	74	66	0.19	0.17	-0.02	-0.66	-0.66	0	0	0	0	0	0
3/11/2025 21:18	50502	MECH_T1	1	1	0	1.5	1.8	0.3	0	0	0	0	0	0	0	0
3/11/2025 21:18	20603	GRWO_T2	94	84	-10	0.3	0.31	0.01	0.3	0.31	0	0	0	0	0	0
3/11/2025 21:18	20401	ASHF_T2	9	14	5	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
3/11/2025 21:18	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/11/2025 21:18	16302	ALPA_T2	0	0	0	0	0	0	0.53	0.56	0	0	0	0	0	0
3/11/2025 21:18	44802	EDAN_T2	0	0	0	0	0	0	-0.99	-0.99	0	0	0	0	0	0
3/11/2025 21:18	20403	ASHF_T2	1	16	15	0.1	0.19	0.09	0	0	0	0	0	0	0	0
3/11/2025 21:18	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:18	53903	HALI_T2	2	2	0	1.5	1.65	0.15	0	0	0	0	0	0	0	0
3/11/2025 21:18	52101	MEIS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/11/2025 21:18	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:18	60404	DILL_T2	0	0	0	0	0	0	-0.49	0.8	1	0	-1	1200	0	-1200
3/11/2025 21:18	16301	ALPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:18	46801	HEPB_T2	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
3/11/2025 21:18	61304	EARL_T1	230	547	317	0.24	0.3	0.06	0	0	0	0	0	0	0	0
3/11/2025 21:18	14404	SSLA_T1	10	140	130	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/11/2025 21:18	61303	EARL_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:18	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:18	55101	WERT_T1	0	0	0	0	0	0	-1.62	-1.67	2	2	0	1500	1500	0
3/11/2025 21:18	60803	BUCK_T1	0	14	14	0	0.16	0.16	0	0	0	0	0	0	0	0
3/11/2025 21:18	12206	FOGE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:18	15103	UPHA_T2	0	0	0	0	0	0	0.3	0.28	0	0	0	0	0	0
3/11/2025 21:18	40505	CRES_T1	0	0	0	0	0	0	0.62	0.66	0	0	0	0	0	0
3/11/2025 21:18	46203	DANV_T2	24	150	126	0.13	0.45	0.32	0.09	0.05	0	0	0	0	0	0
3/11/2025 21:18	20602	GRWO_T2	6	0	-6	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:18	14403	SSLA_T1	3	15	12	0.1	0.21	0.11	0	0	0	0	0	0	0	0
3/11/2025 21:18	65702	RVIL_T2	0	0	0	0	0	0	-1.08	-1.08	0	0	0	0	0	0
3/11/2025 21:18	61803	EELI_T2	0	0	0	0	0	0	0.74	0.77	0	0	0	0	0	0
3/11/2025 21:18	54601	SUMM_T2	12	13	1	0.5	1.04	0.54	0	0	0	0	0	0	0	0
3/11/2025 21:18	40504	CRES_T1	36	78	42	0.18	0.2	0.02	-0.6	-0.63	0	0	0	0	0	0
3/11/2025 21:18	52403	GRPA_T2	18	134	116	0.78	0.39	-0.39	-1.07	-1.09	0	0	0	0	0	0
3/11/2025 21:18	14402	SSLA_T1	147	352	205	0.23	0.43	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/11/2025 21:18	66501	SMAN_T2	0	10	10	0	0.28	0.28	0	0	0	0	0	0	0	0
3/11/2025 21:18	20402	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/11/2025 21:18	60801	BUCK_T1	0	44	44	0	0.27	0.27	-0.28	-0.3	0	0	0	0	0	0
3/11/2025 21:18	14802	TREI_T2	12	24	12	0.24	0.29	0.05	0.56	0.54	0	0	0	0	0	0
3/11/2025 21:18	43302	WATS_T2	4	4	0	0.2	0.38	0.18	0	0	0	0	0	0	0	0
3/11/2025 21:18	58401	MORO_T1	0	0	0	0	0	0	-1.38	-1.4	1	1	0	600	600	0
3/11/2025 21:18	58402	MORO_T1	0	0	0	0	0	0	0.25	0.22	1	1	0	900	900	0
3/11/2025 21:19	52404	GRPA_T2	6	24	18	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:19	42504	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:19	66001	RHEE_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	900	900	0
3/11/2025 21:19	40504	CRES_T1	36	78	42	0.18	0.2	0.02	0	0	0	0	0	0	0	0
3/11/2025 21:19	66501	SMAN_T2	0	10	10	0	0.28	0.28	0	0	0	0	0	0	0	0
3/11/2025 21:19	42503	ALTA_T2	1	0	-1	0.1	0	-0.1	0.32	0.32	0	0	0	0	0	0
3/11/2025 21:19	60801	BUCK_T1	0	44	44	0	0.27	0.27	0	0	0	0	0	0	0	0
3/11/2025 21:19	54505	ENOL_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
3/11/2025 21:19	60803	BUCK_T1	0	14	14	0	0.16	0.16	-0.6	-0.61	1	1	0	600	600	0
3/11/2025 21:19	46101	MACI_T2	0	0	0	0	0	0	0.68	0.67	0	0	0	0	0	0
3/11/2025 21:19	44502	HAMI_T2	1	1	0	3.5	3.7	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:19	52402	GRPA_T2	77	116	39	0.65	0.78	0.13	0	0	0	0	0	0	0	0
3/11/2025 21:19	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:19	67401	WAKE_T2	0	16	16	0	0.12	0.12	0	0	0	0	0	0	0	0
3/11/2025 21:19	54001	SDLE_T1	69	196	127	0.28	0.31	0.03	0	0	0	0	0	0	0	0
3/11/2025 21:19	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.02	0	0	0	0	0	0
3/11/2025 21:19	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
3/11/2025 21:19	53501	EVIL_T2	1	1	0	0.4	0.7	0.3	-0.12	-0.16	0	0	0	0	0	0
3/11/2025 21:19	66505	SMAN_T2	3	3	0	1.3	1.93	0.63	0	0	0	0	0	0	0	0
3/11/2025 21:19	55105	WERT_T1	0	0	0	0	0	0	-0.75	-0.84	1	1	0	900	900	0
3/11/2025 21:19	47201	FAXO_T2	0	0	0	0	0	0	-2.35	-2.34	1	1	0	1200	1200	0
3/11/2025 21:19	62606	ENGL_T1	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
3/11/2025 21:19	53903	HALI_T2	2	2	0	1.5	1.65	0.15	0	0	0	0	0	0	0	0
3/11/2025 21:19	46803	HEPB_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
3/11/2025 21:19	42501	ALTA_T2	3	1	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:19	46801	HEPB_T2	2	2	0	0.45	0.8	0.35	0	0	0	0	0	0	0	0
3/11/2025 21:19	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:19	43302	WATS_T2	4	4	0	0.2	0.38	0.18	-0.81	-0.8	2	2	0	1800	1800	0
3/11/2025 21:19	52403	GRPA_T2	18	134	116	0.78	0.39	-0.39	0	0	0	0	0	0	0	0
3/11/2025 21:19	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:19	64101	REFR_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
3/11/2025 21:19	23901	EFMO_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
3/11/2025 21:19	54501	ENOL_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
3/11/2025 21:19	53901	HALI_T2	1	2	1	0.6	0.5	-0.1	-1.1	-1.13	0	0	0	0	0	0
3/11/2025 21:19	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:19	52401	GRPA_T2	97	288	191	0.24	0.53	0.29	-0.75	-0.75	0	0	0	0	0	0
3/11/2025 21:19	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	-1.45	-1.43	0	0	0	0	0	0
3/11/2025 21:19	40505	CRES_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
3/11/2025 21:20	51701	OBER_T2	1	1	0	5.8	5.5	-0.3	-0.4	-0.39	0	0	0	0	0	0
3/11/2025 21:20	66001	RHEE_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	900	900	0
3/11/2025 21:20	54001	SDLE_T1	69	196	127	0.28	0.31	0.03	0	0	0	0	0	0	0	0
3/11/2025 21:20	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/11/2025 21:20	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:20	52403	GRPA_T2	18	134	116	0.78	0.39	-0.39	0	0	0	0	0	0	0	0
3/11/2025 21:20	56802	BENV_T2	312	446	134	0.48	0.55	0.07	0.26	0.24	0	0	0	0	0	0
3/11/2025 21:20	45801	HEGI_T1	0	0	0	0	0	0	-0.34	-0.34	1	1	0	900	900	0
3/11/2025 21:20	53501	EVIL_T2	1	1	0	0.4	0.7	0.3	-0.12	-0.16	0	0	0	0	0	0
3/11/2025 21:20	44302	BEAV_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
3/11/2025 21:20	55001	NEWP_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
3/11/2025 21:20	41001	LAUR_T2	0	74	74	0	0.24	0.24	0	0	0	0	0	0	0	0
3/11/2025 21:20	58401	MORO_T1	0	0	0	0	0	0	-1.38	-1.4	1	1	0	600	600	0
3/11/2025 21:20	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:20	52404	GRPA_T2	6	24	18	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:20	47104	MARL_T1	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
3/11/2025 21:20	41002	LAUR_T2	4	45	41	0.75	0.3	-0.45	0	0	0	0	0	0	0	0
3/11/2025 21:20	52402	GRPA_T2	77	116	39	0.65	0.78	0.13	0	0	0	0	0	0	0	0
3/11/2025 21:20	54505	ENOL_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
3/11/2025 21:20	65702	RVIL_T2	0	0	0	0	0	0	-1.08	-1.08	0	0	0	0	0	0
3/11/2025 21:20	54501	ENOL_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
3/11/2025 21:20	52401	GRPA_T2	97	288	191	0.24	0.53	0.29	-0.75	-0.75	0	0	0	0	0	0
3/11/2025 21:20	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.21	0.22	1	1	0	600	600	0
3/11/2025 21:20	54503	ENOL_T2	0	0	0	0	0	0	-0.51	-0.51	1	1	0	600	600	0
3/11/2025 21:20	58102	NEKI_T1	1	1	0	1.1	1.5	0.4	0.06	0.18	0	0	0	0	0	0
3/11/2025 21:20	55002	NEWP_T1	4	5	1	0.68	0.78	0.1	0	0	0	0	0	0	0	0
3/11/2025 21:21	40505	CRES_T1	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
3/11/2025 21:21	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:21	63501	HEID_TBKI-2	32	58	26	0.26	0.31	0.05	0.23	0.31	0	0	0	0	0	0
3/11/2025 21:21	54503	ENOL_T2	0	0	0	0	0	0	-0.51	-0.51	1	1	0	600	600	0
3/11/2025 21:21	43302	WATS_T2	4	4	0	0.2	0.38	0.18	0	0	0	0	0	0	0	0
3/11/2025 21:21	52403	GRPA_T2	18	134	116	0.78	0.39	-0.39	-0.54	-0.55	0	0	0	0	0	0
3/11/2025 21:21	40504	CRES_T1	36	78	42	0.18	0.2	0.02	0	0	0	0	0	0	0	0
3/11/2025 21:21	54206	PENN_T2	0	21	21	0	0.11	0.11	-0.1	-0.07	0	0	0	0	0	0
3/11/2025 21:21	42503	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:21	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:21	54001	SDLE_T1	69	196	127	0.28	0.31	0.03	0	0	0	0	0	0	0	0
3/11/2025 21:21	54202	PENN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 21:21	42802	SELI_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/11/2025 21:21	43301	WATS_T2	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
3/11/2025 21:21	42501	ALTA_T2	3	1	-2	0.1	0	-0.1	0.59	0.56	0	0	0	0	0	0
3/11/2025 21:21	64204	KINZ_T1	1	1	0	1.5	1.2	-0.3	0	0	0	0	0	0	0	0
3/11/2025 21:21	41902	REED_T1	0	0	0	0	0	0	0.86	0.9	0	0	0	0	0	0
3/11/2025 21:21	43304	WATS_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
3/11/2025 21:21	54504	ENOL_T2	0	0	0	0	0	0	-1.16	-1.17	1	1	0	600	600	0
3/11/2025 21:21	66501	SMAN_T2	0	10	10	0	0.28	0.28	0	0	0	0	0	0	0	0
3/11/2025 21:21	54505	ENOL_T2	1	1	0	0.8	1.2	0.4	-1.43	-1.46	1	1	0	600	600	0
3/11/2025 21:21	66505	SMAN_T2	3	3	0	1.3	1.93	0.63	0	0	0	0	0	0	0	0
3/11/2025 21:21	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:21	42504	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:21	54204	PENN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:21	44201	POIN_T1	0	0	0	0	0	0	-1.48	-1.5	1	1	0	1200	1200	0
3/11/2025 21:21	64202	KINZ_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:21	52401	GRPA_T2	97	288	191	0.24	0.53	0.29	0	0	0	0	0	0	0	0
3/11/2025 21:21	61306	EARL_T1	6	87	81	0.15	0.19	0.04	0	0	0	0	0	0	0	0
3/11/2025 21:21	66504	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:21	54501	ENOL_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
3/11/2025 21:21	53903	HALI_T2	2	2	0	1.5	1.65	0.15	0	0	0	0	0	0	0	0
3/11/2025 21:21	61303	EARL_T1	0	3	3	0	0.2	0.2	0.32	0.22	0	0	0	0	0	0
3/11/2025 21:21	51701	OBER_T2	1	1	0	5.8	5.5	-0.3	-0.4	-0.39	0	0	0	0	0	0
3/11/2025 21:21	64203	KINZ_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
3/11/2025 21:21	59202	THOM_T1	703	874	171	1.1	1.23	0.13	0	0	0	0	0	0	0	0
3/11/2025 21:21	61304	EARL_T1	230	547	317	0.24	0.3	0.06	-0.9	-0.94	0	0	0	0	0	0
3/11/2025 21:21	66502	SMAN_T2	0	0	0	0	0	0	-0.05	-0.16	0	0	0	0	0	0
3/11/2025 21:21	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/11/2025 21:21	41901	REED_T1	6	9	3	0.17	0.22	0.05	0	0	0	0	0	0	0	0
3/11/2025 21:21	52402	GRPA_T2	77	116	39	0.65	0.78	0.13	0	0	0	0	0	0	0	0
3/11/2025 21:21	64101	REFR_T1	0	0	0	0	0	0	-0.24	-0.24	0	0	0	0	0	0
3/11/2025 21:21	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:21	67401	WAKE_T2	0	16	16	0	0.12	0.12	-2.02	-2.02	0	0	0	0	0	0
3/11/2025 21:21	58401	MORO_T1	0	0	0	0	0	0	-4.14	-4.2	3	3	0	1800	1800	0
3/11/2025 21:21	53901	HALI_T2	1	2	1	0.6	0.5	-0.1	-1.1	-1.13	0	0	0	0	0	0
3/11/2025 21:21	52404	GRPA_T2	6	24	18	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:21	46801	HEPB_T2	2	2	0	0.45	0.8	0.35	0.43	0.42	0	0	0	0	0	0
3/11/2025 21:21	55002	NEWP_T1	4	5	1	0.68	0.78	0.1	-0.31	-0.33	0	0	0	0	0	0
3/11/2025 21:21	59201	THOM_T1	118	160	42	0.83	0.94	0.11	0	0	0	0	0	0	0	0
3/11/2025 21:21	64201	KINZ_T1	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
3/11/2025 21:22	53501	EVIL_T2	1	1	0	0.4	0.7	0.3	-0.16	-0.14	0	0	0	0	0	0
3/11/2025 21:22	67605	WARW_T1	20	39	19	0.64	0.63	-0.01	0	0	0	0	0	0	0	0
3/11/2025 21:22	61306	EARL_T1	6	87	81	0.15	0.19	0.04	0	0	0	0	0	0	0	0
3/11/2025 21:22	14404	SSLA_T1	10	140	130	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/11/2025 21:22	43802	SWIL_T1	0	0	0	0	0	0	-0.33	-0.32	1	1	0	600	600	0
3/11/2025 21:22	52006	LING_T2	2	2	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
3/11/2025 21:22	40502	CRES_T2	10	16	6	0.29	0.28	-0.01	0.34	0.32	0	0	0	0	0	0
3/11/2025 21:22	46901	MNTG_T2	0	0	0	0	0	0	1.09	1.11	0	0	0	0	0	0
3/11/2025 21:22	61301	EARL_T1	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
3/11/2025 21:22	59201	THOM_T1	118	160	42	0.83	0.94	0.11	0	0	0	0	0	0	0	0
3/11/2025 21:22	53903	HALI_T2	2	2	0	1.5	1.65	0.15	-0.21	-0.22	0	0	0	0	0	0
3/11/2025 21:22	14401	SSLA_T1	8	74	66	0.19	0.17	-0.02	0	0	0	0	0	0	0	0
3/11/2025 21:22	57401	SPAN_T1	2	2	0	0.65	1.25	0.6	0	0	0	0	0	0	0	0
3/11/2025 21:22	14403	SSLA_T1	3	15	12	0.1	0.21	0.11	0.51	0.47	0	0	0	0	0	0
3/11/2025 21:22	63602	LETO_T1	0	0	0	0	0	0	-0.65	-0.57	0	0	0	0	0	0
3/11/2025 21:22	53901	HALI_T2	1	2	1	0.6	0.5	-0.1	-3.39	-3.36	0	0	0	0	0	0
3/11/2025 21:22	40101	HUNT_T2	0	0	0	0	0	0	-1.81	-1.86	0	0	0	0	0	0
3/11/2025 21:22	45501	DERR_T2	1	0	-1	0.2	0	-0.2	0.22	0.28	1	1	0	600	600	0
3/11/2025 21:22	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:22	67401	WAKE_T2	0	16	16	0	0.12	0.12	0	0	0	0	0	0	0	0
3/11/2025 21:22	61304	EARL_T1	230	547	317	0.24	0.3	0.06	0	0	0	0	0	0	0	0
3/11/2025 21:22	54001	SDLE_T1	69	196	127	0.28	0.31	0.03	0	0	0	0	0	0	0	0
3/11/2025 21:22	52002	LING_T2	1	1	0	0.6	1.3	0.7	0	0	0	0	0	0	0	0
3/11/2025 21:22	52004	LING_T2	2	2	0	6.35	6.55	0.2	0.04	0.03	0	0	0	0	0	0
3/11/2025 21:22	43801	SWIL_T1	5	6	1	1.38	1.22	-0.16	0	0	0	0	0	0	0	0
3/11/2025 21:22	67503	WEWI_T2	66	214	148	0.17	0.24	0.07	0	0	0	0	0	0	0	0
3/11/2025 21:22	40501	CRES_T2	9	9	0	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
3/11/2025 21:22	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:22	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:22	14402	SSLA_T1	147	352	205	0.23	0.43	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:22	43302	WATS_T2	4	4	0	0.2	0.38	0.18	0	0	0	0	0	0	0	0
3/11/2025 21:22	67502	WEWI_T2	171	360	189	0.22	0.27	0.05	0	0	0	0	0	0	0	0
3/11/2025 21:22	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:22	59202	THOM_T1	703	874	171	1.1	1.23	0.13	0	0	0	0	0	0	0	0
3/11/2025 21:22	44701	MUNC_T2	7	101	94	0.13	0.21	0.08	0	0	0	0	0	0	0	0
3/11/2025 21:22	61303	EARL_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:22	58401	MORO_T1	0	0	0	0	0	0	-1.4	-1.38	1	1	0	600	600	0
3/11/2025 21:22	43301	WATS_T2	0	0	0	0	0	0	0.06	0.08	0	0	0	0	0	0
3/11/2025 21:22	15104	UPHA_T2	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
3/11/2025 21:22	44702	MUNC_T2	1	6	5	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/11/2025 21:22	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/11/2025 21:23	61306	EARL_T1	6	87	81	0.15	0.19	0.04	0	0	0	0	0	0	0	0
3/11/2025 21:23	59402	RFLD_T2	0	0	0	0	0	0	-0.92	-0.86	0	0	0	0	0	0
3/11/2025 21:23	41301	FISH_T1	12	6	-6	0.26	0.62	0.36	-0.37	-0.36	0	0	0	0	0	0
3/11/2025 21:23	54501	ENOL_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
3/11/2025 21:23	53902	HALI_T2	1	1	0	5.6	5.8	0.2	-0.32	-0.34	0	0	0	0	0	0
3/11/2025 21:23	66503	SMAN_T2	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
3/11/2025 21:23	52404	GRPA_T2	6	24	18	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:23	54001	SDLE_T1	69	196	127	0.28	0.31	0.03	0	0	0	0	0	0	0	0
3/11/2025 21:23	43302	WATS_T2	4	4	0	0.2	0.38	0.18	0	0	0	0	0	0	0	0
3/11/2025 21:23	54502	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/11/2025 21:23	61304	EARL_T1	230	547	317	0.24	0.3	0.06	-0.45	-0.47	0	0	0	0	0	0
3/11/2025 21:23	41202	KENM_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:23	57401	SPAN_T1	2	2	0	0.65	1.25	0.6	-0.41	-0.43	1	1	0	600	600	0
3/11/2025 21:23	55105	WERT_T1	0	0	0	0	0	0	-0.84	-0.84	1	1	0	900	900	0
3/11/2025 21:23	54503	ENOL_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	600	600	0
3/11/2025 21:23	41201	KENM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 21:23	51703	OBER_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:23	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:23	51701	OBER_T2	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
3/11/2025 21:23	66501	SMAN_T2	0	10	10	0	0.28	0.28	0	0	0	0	0	0	0	0
3/11/2025 21:23	52403	GRPA_T2	18	134	116	0.78	0.39	-0.39	-0.55	-0.6	0	0	0	0	0	0
3/11/2025 21:23	62605	ENGL_T1	0	0	0	0	0	0	-0.92	-0.93	0	0	0	0	0	0
3/11/2025 21:23	52402	GRPA_T2	77	116	39	0.65	0.78	0.13	0	0	0	0	0	0	0	0
3/11/2025 21:23	58401	MORO_T1	0	0	0	0	0	0	-1.4	-1.38	1	1	0	600	600	0
3/11/2025 21:23	66504	SMAN_T2	0	1	1	0	0.2	0.2	-0.66	-0.71	0	0	0	0	0	0
3/11/2025 21:23	54505	ENOL_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
3/11/2025 21:23	61303	EARL_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:23	55101	WERT_T1	0	0	0	0	0	0	-1.67	-1.68	2	2	0	1500	1500	0
3/11/2025 21:23	66001	RHEE_T2	0	0	0	0	0	0	-0.76	-0.81	1	1	0	900	900	0
3/11/2025 21:23	66505	SMAN_T2	3	3	0	1.3	1.93	0.63	0	0	0	0	0	0	0	0
3/11/2025 21:23	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:23	41204	KENM_T2	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
3/11/2025 21:23	52401	GRPA_T2	97	288	191	0.24	0.53	0.29	0	0	0	0	0	0	0	0
3/11/2025 21:23	53903	HALI_T2	2	2	0	1.5	1.65	0.15	0	0	0	0	0	0	0	0
3/11/2025 21:23	53901	HALI_T2	1	2	1	0.6	0.5	-0.1	-2.26	-2.24	0	0	0	0	0	0
3/11/2025 21:23	63501	HEID_TBK1-2	32	58	26	0.26	0.31	0.05	0.23	0.31	0	0	0	0	0	0
3/11/2025 21:24	52101	MEIS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/11/2025 21:24	43801	SWIL_T1	5	6	1	1.38	1.22	-0.16	0	0	0	0	0	0	0	0
3/11/2025 21:24	54001	SDLE_T1	69	196	127	0.28	0.31	0.03	0	0	0	0	0	0	0	0
3/11/2025 21:24	43802	SWIL_T1	0	0	0	0	0	0	-0.33	-0.32	1	1	0	600	600	0
3/11/2025 21:24	53501	EVIL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/11/2025 21:24	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/11/2025 21:25	52401	GRPA_T2	97	288	191	0.24	0.53	0.29	0	0	0	0	0	0	0	0
3/11/2025 21:25	52402	GRPA_T2	77	116	39	0.65	0.78	0.13	0	0	0	0	0	0	0	0
3/11/2025 21:25	60803	BUCK_T1	0	14	14	0	0.16	0.16	0	0	0	0	0	0	0	0
3/11/2025 21:25	67402	WAKE_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
3/11/2025 21:25	58402	MORO_T1	0	0	0	0	0	0	0.22	0.21	1	1	0	900	900	0
3/11/2025 21:25	67804	WLAN_T1	8	91	83	0.15	0.21	0.06	0	0	0	0	0	0	0	0
3/11/2025 21:25	42802	SEU_T1	1	1	0	0.2	0.6	0.4	-1.39	-1.4	1	1	0	900	900	0
3/11/2025 21:25	60801	BUCK_T1	0	44	44	0	0.27	0.27	-0.3	-0.3	0	0	0	0	0	0
3/11/2025 21:25	52403	GRPA_T2	18	134	116	0.78	0.39	-0.39	-0.55	-0.6	0	0	0	0	0	0
3/11/2025 21:25	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
3/11/2025 21:25	67401	WAKE_T2	0	16	16	0	0.12	0.12	0	0	0	0	0	0	0	0
3/11/2025 21:25	67805	WLAN_T1	471	584	113	0.28	0.44	0.16	-1.59	-1.62	0	0	0	0	0	0
3/11/2025 21:25	67803	WLAN_T1	1	77	76	0.3	0.14	-0.16	0	0	0	0	0	0	0	0
3/11/2025 21:25	52404	GRPA_T2	6	24	18	0.43	0.33	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:25	67802	WLAN_T1	0	21	21	0	0.14	0.14	0	0	0	0	0	0	0	0
3/11/2025 21:25	46504	LOHA_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
3/11/2025 21:25	46506	LOHA_T1	4	4	0	3.68	4.45	0.77	0	0	0	0	0	0	0	0
3/11/2025 21:26	55405	SHER_T1	18	31	13	0.54	0.87	0.33	0	0	0	0	0	0	0	0
3/11/2025 21:26	58401	MORO_T1	0	0	0	0	0	0	-1.4	-1.38	1	1	0	600	600	0
3/11/2025 21:26	55401	SHER_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
3/11/2025 21:26	55105	WERT_T1	0	0	0	0	0	0	-0.84	-0.84	1	1	0	900	900	0
3/11/2025 21:26	58402	MORO_T1	0	0	0	0	0	0	0.22	0.21	1	1	0	900	900	0
3/11/2025 21:27	43302	WATS_T2	4	4	0	0.2	0.38	0.18	0	0	0	0	0	0	0	0
3/11/2025 21:27	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:27	66501	SMAN_T2	0	10	10	0	0.28	0.28	0	0	0	0	0	0	0	0
3/11/2025 21:27	53903	HALI_T2	2	2	0	1.5	1.65	0.15	-0.21	-0.22	0	0	0	0	0	0
3/11/2025 21:27	66505	SMAN_T2	3	3	0	1.3	1.93	0.63	0	0	0	0	0	0	0	0
3/11/2025 21:27	43304	WATS_T2	0	0	0	0	0	0	0.52	0.51	0	0	0	0	0	0
3/11/2025 21:27	53902	HALI_T2	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:27	53901	HALI_T2	1	2	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/11/2025 21:27	66504	SMAN_T2	0	1	1	0	0.2	0.2	-0.66	-0.71	0	0	0	0	0	0
3/11/2025 21:28	15702	TANN_T2	0	21	21	0	0.14	0.14	-0.53	-0.49	0	0	0	0	0	0
3/11/2025 21:28	54204	PENN_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/11/2025 21:28	54206	PENN_T2	0	21	21	0	0.11	0.11	-0.07	-0.1	0	0	0	0	0	0
3/11/2025 21:28	60101	COCA_T1	0	0	0	0	0	0	0.1	0.05	0	0	0	0	0	0
3/11/2025 21:28	54202	PENN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/11/2025 21:28	15703	TANN_T2	1	1	0	5.2	5	-0.2	0	0	0	0	0	0	0	0
3/11/2025 21:40	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2025 21:49	60404	DILL_T2	0	0	0	0	0	0	0.8	0.88	0	0	0	0	0	0
3/11/2025 22:07	24202	PROV_T4	0	0	0	0	0	0	0.32	0.33	0	0	0	0	0	0
3/11/2025 22:18	67204	TEHI_T2	88	111	23	0.17	0.27	0.1	-0.01	-0.01	0	0	0	0	0	0
3/11/2025 22:39	67204	TEHI_T2	105	108	3	0.24	0.26	0.02	0	0	0	0	0	0	0	0
3/11/2025 22:43	62604	ENGL_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 22:43	62601	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 22:43	62607	ENGL_T1	131	0	-131	0.12	0	-0.12	-0.9	-0.9	0	0	0	0	0	0
3/11/2025 22:43	62606	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 22:43	62605	ENGL_T1	32	0	-32	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/11/2025 22:43	62602	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/11/2025 22:47	41301	FISH_T1	2	0	-2	1.75	1.6	-0.15	0	0	0	0	0	0	0	0
3/11/2025 23:35	44201	POIN_T1	1	49	48	0.1	0.16	0.06	-1.59	-1.6	1	1	0	1200	1200	0
3/12/2025 0:51	52006	LING_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/12/2025 0:51	52002	LING_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/12/2025 0:51	52004	LING_T2	2	2	0	5.1	5.4	0.3	0	0	0	0	0	0	0	0
3/12/2025 8:05	21601	EYNO_T1	31	3	-28	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
3/12/2025 8:05	21606	EYNO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 8:13	46203	DANV_T2	74	174	100	0.38	0.6	0.22	-0.96	-0.94	0	0	0	0	0	0
3/12/2025 8:13	46206	DANV_T2	3	2	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/12/2025 8:14	46206	DANV_T2	3	2	-1	0.7	0	-0.7	4.16	5.84	4	2	-2	4200	2400	-1800
3/12/2025 8:14	46203	DANV_T2	74	174	100	0.38	0.6	0.22	0	0	0	0	0	0	0	0
3/12/2025 8:15	46203	DANV_T2	160	190	30	0.63	0.64	0.01	-0.96	-0.94	0	0	0	0	0	0
3/12/2025 8:15	46205	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 8:15	46206	DANV_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/12/2025 8:30	58803	COCO_T1	1	1	0	3	3.6	0.6	-0.3	-0.26	0	0	0	0	0	0
3/12/2025 8:31	53502	EVIL_T2	1	1	0	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/12/2025 8:31	53501	EVIL_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/12/2025 8:35	47104	MARL_T1	0	0	0	0	0	0	-2.25	-2.29	0	0	0	0	0	0
3/12/2025 8:38	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 8:38	66505	SMAN_T2	3	3	0	0.4	0.63	0.23	0	0	0	0	0	0	0	0
3/12/2025 8:39	66901	SHIL_T2	0	23	23	0	0.11	0.11	-1.74	-1.71	1	1	0	1200	1200	0
3/12/2025 8:39	66902	SHIL_T2	0	0	0	0	0	0	-1.07	-1.08	0	0	0	0	0	0
3/12/2025 8:39	54001	SDLE_T1	11	48	37	0.73	0.38	-0.35	0	0	0	0	0	0	0	0
3/12/2025 8:41	66504	SMAN_T2	0	0	0	0	0	0	-0.35	-0.38	0	0	0	0	0	0
3/12/2025 8:41	66902	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 8:41	66901	SHIL_T2	0	23	23	0	0.11	0.11	0	0	0	0	0	0	0	0
3/12/2025 8:41	66505	SMAN_T2	3	3	0	0.4	0.63	0.23	0	0	0	0	0	0	0	0
3/12/2025 8:43	61304	EARL_T1	12	58	46	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/12/2025 8:43	61301	EARL_T1	0	0	0	0	0	0	0.33	0.28	0	0	0	0	0	0
3/12/2025 8:43	66901	SHIL_T2	0	23	23	0	0.11	0.11	0	0	0	0	0	0	0	0
3/12/2025 8:43	67605	WARW_T1	19	38	19	0.39	0.48	0.09	0	0	0	0	0	0	0	0
3/12/2025 8:43	61306	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 8:43	66902	SHIL_T2	0	0	0	0	0	0	-1.07	-1.08	0	0	0	0	0	0
3/12/2025 8:43	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/12/2025 8:43	67604	WARW_T1	0	0	0	0	0	0	0.18	0.22	0	0	0	0	0	0
3/12/2025 8:44	67601	WARW_T2	0	0	0	0	0	0	-0.53	-0.4	0	0	0	0	0	0
3/12/2025 8:46	67604	WARW_T1	0	0	0	0	0	0	0.36	0.44	0	0	0	0	0	0
3/12/2025 8:46	67605	WARW_T1	34	37	3	0.47	0.47	0	0	0	0	0	0	0	0	0
3/12/2025 8:48	63501	HEID_TBK1-2	1	1	0	0.6	1.1	0.5	0.25	0.35	2	2	0	1800	1800	0
3/12/2025 8:49	63501	HEID_TBK1-2	1	1	0	0.6	1.1	0.5	0.13	0.17	1	1	0	900	900	0
3/12/2025 8:50	53501	EVIL_T2	0	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0
3/12/2025 8:50	53502	EVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/12/2025 8:50	63501	HEID_TBK1-2	1	1	0	0.6	1.1	0.5	0.13	0.17	1	1	0	900	900	0
3/12/2025 8:51	63501	HEID_TBK1-2	1	1	0	0.6	1.1	0.5	0.17	0.16	1	1	0	900	900	0
3/12/2025 8:54	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 8:54	46506	LOHA_T1	4	4	0	3.03	3.15	0.12	0	0	0	0	0	0	0	0
3/12/2025 8:54	46504	LOHA_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/12/2025 8:54	66505	SMAN_T2	3	3	0	0.57	0.8	0.23	0	0	0	0	0	0	0	0
3/12/2025 8:54	46501	LOHA_T1	1	1	0	1.3	0.5	-0.8	-0.1	-0.12	1	1	0	1200	1200	0
3/12/2025 8:58	66505	SMAN_T2	3	3	0	0.57	0.8	0.23	0	0	0	0	0	0	0	0
3/12/2025 8:58	66503	SMAN_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
3/12/2025 9:03	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 9:03	21203	ECAR_T1	0	1	1	0	0.1	0.1	-0.28	-0.33	0	0	0	0	0	0
3/12/2025 9:04	63801	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 9:04	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 9:04	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
3/12/2025 9:05	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
3/12/2025 9:05	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 9:05	63801	HEMP_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
3/12/2025 9:16	24105	EHAZ_T1	4	4	0	6.4	5.8	-0.6	0	0	0	0	0	0	0	0
3/12/2025 9:16	24101	EHAZ_T1	1	2	1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/12/2025 9:16	24102	EHAZ_T1	4	1	-3	0.98	0	-0.98	0.86	-0.19	0	0	0	0	0	0
3/12/2025 9:20	52403	GRPA_T2	95	230	135	0.47	0.38	-0.09	-0.46	-0.48	0	0	0	0	0	0
3/12/2025 9:20	52404	GRPA_T2	5	2	-3	0.42	0.5	0.08	0	0	0	0	0	0	0	0
3/12/2025 9:20	52401	GRPA_T2	101	141	40	0.26	0.35	0.09	0	0	0	0	0	0	0	0
3/12/2025 9:20	52402	GRPA_T2	86	58	-28	0.5	0.49	-0.01	0	0	0	0	0	0	0	0
3/12/2025 9:22	23401	HONE_T2	12	66	54	0.56	0.23	-0.33	-0.17	-0.14	0	0	0	0	0	0
3/12/2025 9:28	67402	WAKE_T2	0	0	0	0	0	0	0.67	0.6	2	2	0	1200	1200	0
3/12/2025 9:29	62605	ENGL_T1	0	2	2	0	0.25	0.25	-1.88	-1.84	0	0	0	0	0	0
3/12/2025 9:29	67605	WARW_T1	24	28	4	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
3/12/2025 9:29	62607	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 9:30	62605	ENGL_T1	2	3	1	0.2	0.2	0	-0.94	-0.92	0	0	0	0	0	0
3/12/2025 9:30	62607	ENGL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/12/2025 9:31	67605	WARW_T1	21	28	7	0.4	0.49	0.09	-1.03	-0.99	0	0	0	0	0	0
3/12/2025 9:32	62605	ENGL_T2	2	3	1	0.2	0.2	0	-0.94	-0.92	0	0	0	0	0	0
3/12/2025 9:32	62607	ENGL_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/12/2025 9:34	53501	EVIL_T2	2	2	0	0.35	0.8	0.45	-0.19	-0.22	1	1	0	600	600	0
3/12/2025 9:39	46901	MNTG_T2	0	0	0	0	0	0	0.86	0.89	0	0	0	0	0	0
3/12/2025 9:39	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 9:39	46903	MNTG_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
3/12/2025 9:40	13103	NHAM_T2	0	0	0	0	0	0	-3.54	-3.5	2	2	0	1200	1200	0
3/12/2025 9:41	58401	MORO_T1	0	0	0	0	0	0	-2.13	-2.2	2	2	0	1200	1200	0
3/12/2025 9:45	45501	DERR_T2	0	0	0	0	0	0	-0.01	0.18	2	2	0	1800	1800	0
3/12/2025 9:47	45501	DERR_T2	0	0	0	0	0	0	-0.01	0.18	2	2	0	1800	1800	0
3/12/2025 9:49	52404	GRPA_T2	2	2	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/12/2025 9:49	52401	GRPA_T2	138	182	44	0.36	0.4	0.04	0	0	0	0	0	0	0	0
3/12/2025 9:49	52402	GRPA_T2	51	91	40	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
3/12/2025 9:49	52403	GRPA_T2	203	295	92	0.39	0.63	0.24	-0.49	-0.48	0	0	0	0	0	0
3/12/2025 9:52	43202	MVIL_T2	61	87	26	0.7	0.79	0.09	-0.57	-0.58	0	0	0	0	0	0
3/12/2025 9:55	57402	SPAN_T2	0	1	1	0	0.3	0.3	-0.58	-0.57	0	0	0	0	0	0
3/12/2025 9:56	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 9:57	57403	SPAN_T1	113	130	17	0.28	0.26	-0.02	-0.05	-0.06	0	0	0	0	0	0
3/12/2025 9:57	43304	WATS_T2	0	0	0	0	0	0	0.72	0.26	0	1	1	0	600	600
3/12/2025 9:57	57401	SPAN_T1	2	2	0	1.3	1.05	-0.25	0	0	0	0	0	0	0	0
3/12/2025 9:58	10805	CHHI_T2	1	1	0	8.5	7.9	-0.6	-0.95	-0.72	1	1	0	600	600	0
3/12/2025 9:59	43304	WATS_T2	0	0	0	0	0	0	0.72	0.26	0	1	1	0	600	600
3/12/2025 10:00	67502	WEWI_T2	3	78	75	0.53	0.2	-0.33	0	0	0	0	0	0	0	0
3/12/2025 10:00	53901	HALI_T2	1	1	0	0.6	0.8	0.2	-1.08	-1.09	0	0	0	0	0	0
3/12/2025 10:00	46901	MNTG_T2	0	0	0	0	0	0	0.89	1.01	0	0	0	0	0	0
3/12/2025 10:00	52403	GRPA_T2	287	191	-96	0.62	0.57	-0.05	-1.44	-1.44	0	0	0	0	0	0
3/12/2025 10:00	54201	PENN_T1	7	3	-4	0.87	1.13	0.26	0.1	0.02	0	0	0	0	0	0
3/12/2025 10:00	47104	MARL_T1	0	0	0	0	0	0	-0.88	-0.84	0	0	0	0	0	0
3/12/2025 10:00	53903	HALI_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 10:00	52402	GRPA_T2	91	53	-38	0.4	0.41	0.01	0	0	0	0	0	0	0	0
3/12/2025 10:00	67503	WEWI_T2	0	4	4	0	0.25	0.25	-0.15	-0.15	0	0	0	0	0	0
3/12/2025 10:00	46903	MNTG_T2	2	6	4	0.7	0.42	-0.28	0	0	0	0	0	0	0	0
3/12/2025 10:00	52404	GRPA_T2	2	1	-1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/12/2025 10:00	10801	CHHI_T1	0	1	1	0	0.5	0.5	-1.64	-1.8	2	2	0	1800	1800	0
3/12/2025 10:00	52401	GRPA_T2	180	90	-90	0.4	0.28	-0.12	-0.64	-0.65	0	0	0	0	0	0
3/12/2025 10:00	54203	PENN_T1	20	20	0	0.85	0.37	-0.48	0	0	0	0	0	0	0	0
3/12/2025 10:00	53902	HALI_T2	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
3/12/2025 10:00	11203	ELHE_T1	0	0	0	0	0	0	0.86	0.82	0	0	0	0	0	0
3/12/2025 10:00	40505	CRES_T1	0	0	0	0	0	0	0.35	0.46	0	0	0	0	0	0
3/12/2025 10:00	23401	HONE_T2	0	1	1	0	0	0	-1.06	-1.17	0	0	0	0	0	0
3/12/2025 10:07	27201	YATE_T1	10	10	0	6.68	6.51	-0.17	-2.05	-2.11	0	0	0	0	0	0
3/12/2025 10:08	43202	MVIL_T2	80	94	14	0.75	0.93	0.18	-1.16	-1.16	0	0	0	0	0	0
3/12/2025 10:09	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.28	-0.26	0	0	0	0	0	0
3/12/2025 10:10	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.42	-0.39	0	0	0	0	0	0
3/12/2025 10:11	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.14	-0.13	0	0	0	0	0	0
3/12/2025 10:11	57402	SPAN_T2	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
3/12/2025 10:11	43202	MVIL_T2	80	94	14	0.75	0.93	0.18	-0.58	-0.58	0	0	0	0	0	0
3/12/2025 10:12	57402	SPAN_T2	0	3	3	0	0.3	0.3	-0.57	-0.57	0	0	0	0	0	0
3/12/2025 10:12	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.14	-0.13	0	0	0	0	0	0
3/12/2025 10:13	57401	SPAN_T1	2	2	0	0.95	1.05	0.1	0	0	0	0	0	0	0	0
3/12/2025 10:13	64101	REFR_T1	0	1	1	0	0.3	0.3	-0.28	-0.26	0	0	0	0	0	0
3/12/2025 10:13	57403	SPAN_T1	128	67	-61	0.26	0.29	0.03	-0.06	-0.04	0	0	0	0	0	0
3/12/2025 10:13	46002	BERW_T2	0	0	0	0	0	0	-0.58	-0.58	1	1	0	900	900	0
3/12/2025 10:14	57403	SPAN_T1	128	67	-61	0.26	0.29	0.03	-0.06	-0.04	0	0	0	0	0	0
3/12/2025 10:14	57401	SPAN_T1	2	2	0	0.95	1.05	0.1	0	0	0	0	0	0	0	0
3/12/2025 10:15	67603	WARW_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 10:15	67605	WARW_T1	25	43	18	0.36	0.59	0.23	-1.06	-1.07	0	0	0	0	0	0
3/12/2025 10:15	67503	WEWI_T2	1	7	6	0.1	0.24	0.14	0	0	0	0	0	0	0	0
3/12/2025 10:15	67502	WEWI_T2	39	136	97	0.2	0.22	0.02	0	0	0	0	0	0	0	0
3/12/2025 10:16	53501	EVIL_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/12/2025 10:16	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 10:16	21203	ECAR_T1	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
3/12/2025 10:16	57402	SPAN_T2	1	3	2	0.3	0.37	0.07	-0.57	-0.57	0	0	0	0	0	0
3/12/2025 10:16	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 10:17	67605	WARW_T1	25	43	18	0.36	0.59	0.23	-1.06	-1.07	0	0	0	0	0	0
3/12/2025 10:17	67603	WARW_T1	0	2	2	0	0.2	0.2	0	-0.03	0	0	0	0	0	0
3/12/2025 10:18	67603	WARW_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 10:18	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 10:18	67605	WARW_T1	25	43	18	0.36	0.59	0.23	-1.06	-1.07	0	0	0	0	0	0
3/12/2025 10:19	53501	EVIL_T2	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/12/2025 10:19	23502	GEOR_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
3/12/2025 10:19	67603	WARW_T1	0	2	2	0	0.2	0.2	0	-0.03	0	0	0	0	0	0
3/12/2025 10:19	67605	WARW_T1	25	43	18	0.36	0.59	0.23	0	0	0	0	0	0	0	0
3/12/2025 10:19	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 10:20	46502	LOHA_T1	0	0	0	0	0	0	-2.73	-2.68	1	1	0	1200	1200	0
3/12/2025 10:20	46504	LOHA_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
3/12/2025 10:20	46506	LOHA_T1	3	3	0	3.6	4.47	0.87	0	0	0	0	0	0	0	0
3/12/2025 10:21	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 10:21	21606	EYNO_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/12/2025 10:23	46504	LOHA_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
3/12/2025 10:23	46506	LOHA_T1	3	3	0	3.6	4.47	0.87	0	0	0	0	0	0	0	0
3/12/2025 10:23	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
3/12/2025 10:24	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
3/12/2025 10:24	46504	LOHA_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
3/12/2025 10:24	46506	LOHA_T1	3	3	0	3.6	4.47	0.87	0	0	0	0	0	0	0	0
3/12/2025 10:25	57403	SPAN_T1	62	76	14	0.29	0.25	-0.04	-0.04	-0.05	0	0	0	0	0	0
3/12/2025 10:25	57401	SPAN_T1	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
3/12/2025 10:26	57403	SPAN_T1	62	76	14	0.29	0.25	-0.04	0	0	0	0	0	0	0	0
3/12/2025 10:26	57401	SPAN_T1	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
3/12/2025 10:28	61304	EARL_T1	14	135	121	0.13	0.19	0.06	-0.04	-0.16	0	0	0	0	0	0
3/12/2025 10:28	61306	EARL_T1	2	28	26	0.25	0.19	-0.06	0	0	0	0	0	0	0	0
3/12/2025 10:28	57404	SPAN_T2	0	0	0	0	0	0	-0.03	-0.02	1	1	0	1200	1200	0
3/12/2025 10:28	57402	SPAN_T2	1	3	2	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/12/2025 10:28	61302	EARL_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/12/2025 10:28	57401	SPAN_T1	2	2	0	1.05	1.05	0	0	0	0	0	0	0	0	0
3/12/2025 10:28	58101	NEKI_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/12/2025 10:28	57403	SPAN_T1	62	76	14	0.29	0.25	-0.04	-0.04	-0.05	0	0	0	0	0	0
3/12/2025 10:28	58102	NEKI_T1	1	2	1	0.9	0.6	-0.3	0.09	0.09	0	0	0	0	0	0
3/12/2025 10:29	61306	EARL_T1	2	28	26	0.25	0.19	-0.06	0.1	0.1	0	0	0	0	0	0
3/12/2025 10:29	61304	EARL_T1	14	135	121	0.13	0.19	0.06	-0.06	-0.24	0	0	0	0	0	0
3/12/2025 10:29	61302	EARL_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/12/2025 10:30	61306	EARL_T1	4	31	27	0.23	0.2	-0.03	0.1	0.1	0	0	0	0	0	0
3/12/2025 10:30	61302	EARL_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/12/2025 10:30	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 10:30	60201	ATGL_T2	25	15	-10	0.16	0.17	0.01	-0.05	-0.07	0	0	0	0	0	0
3/12/2025 10:30	40501	CRES_T2	5	9	4	0.34	0.3	-0.04	0	0	0	0	0	0	0	0
3/12/2025 10:30	57401	SPAN_T1	2	2	0	1	1.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 10:30	57403	SPAN_T1	32	133	101	0.29	0.3	0.01	0	0	0	0	0	0	0	0
3/12/2025 10:30	61304	EARL_T1	38	149	111	0.18	0.19	0.01	0	0	0	0	0	0	0	0
3/12/2025 10:30	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 10:30	21206	ECAR_T2	1	1	0	7.4	7.6	0.2	0.43	0.41	0	0	0	0	0	0
3/12/2025 10:33	61301	EARL_T1	0	0	0	0	0	0	0.23	0.26	0	0	0	0	0	0
3/12/2025 10:33	61304	EARL_T1	38	149	111	0.18	0.19	0.01	-0.02	-0.08	0	0	0	0	0	0
3/12/2025 10:33	63501	HEID_TBK1-2	2	3	1	0.55	0.5	-0.05	0.17	0.15	1	1	0	900	900	0
3/12/2025 10:33	61302	EARL_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/12/2025 10:33	61306	EARL_T1	4	31	27	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
3/12/2025 10:34	63501	HEID_TBK1-2	2	3	1	0.55	0.5	-0.05	0.17	0.15	1	1	0	900	900	0
3/12/2025 10:34	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 10:34	60801	BUCK_T1	1	0	-1	0.1	0	-0.1	0.04	0.05	0	0	0	0	0	0
3/12/2025 10:34	21206	ECAR_T2	1	1	0	7.4	7.6	0.2	0.43	0.41	0	0	0	0	0	0
3/12/2025 10:34	60803	BUCK_T1	11	13	2	0.16	0.17	0.01	-1.14	-1.08	2	2	0	1200	1200	0
3/12/2025 10:35	60803	BUCK_T1	11	13	2	0.16	0.17	0.01	-0.57	-0.54	1	1	0	600	600	0
3/12/2025 10:35	60801	BUCK_T1	1	0	-1	0.1	0	-0.1	0.04	0.05	0	0	0	0	0	0
3/12/2025 10:36	63501	HEID_TBK1-2	2	3	1	0.55	0.5	-0.05	0.15	0.24	1	1	0	900	900	0
3/12/2025 10:36	60803	BUCK_T1	11	13	2	0.16	0.17	0.01	-0.54	-0.54	1	1	0	600	600	0
3/12/2025 10:36	60801	BUCK_T1	1	0	-1	0.1	0	-0.1	0.05	0.02	0	0	0	0	0	0
3/12/2025 10:37	60803	BUCK_T1	11	13	2	0.16	0.17	0.01	-0.54	-0.54	1	1	0	600	600	0
3/12/2025 10:37	60801	BUCK_T1	1	0	-1	0.1	0	-0.1	0.05	0.02	0	0	0	0	0	0
3/12/2025 10:38	63501	HEID_TBK1-2	2	3	1	0.55	0.5	-0.05	0.15	0.24	1	1	0	900	900	0
3/12/2025 10:39	64101	REFR_T1	1	3	2	0.3	0.37	0.07	-0.15	-0.13	0	0	0	0	0	0
3/12/2025 10:39	60801	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/12/2025 10:39	60803	BUCK_T1	11	13	2	0.16	0.17	0.01	0	0	0	0	0	0	0	0
3/12/2025 10:40	13303	ORVI_T1	0	3	3	0	0.13	0.13	1.02	1	0	0	0	0	0	0
3/12/2025 10:40	54701	NEBL_T1	8	8	0	0.58	0.89	0.31	0	0	0	0	0	0	0	0
3/12/2025 10:42	55002	NEWP_T1	3	7	4	0.33	0.61	0.28	-0.81	-0.78	0	0	0	0	0	0
3/12/2025 10:43	61303	EARL_T1	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
3/12/2025 10:43	61304	EARL_T1	38	149	111	0.18	0.19	0.01	0	0	0	0	0	0	0	0
3/12/2025 10:43	64101	REFR_T1	1	3	2	0.3	0.37	0.07	-0.15	-0.13	0	0	0	0	0	0
3/12/2025 10:43	61306	EARL_T1	4	31	27	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
3/12/2025 10:43	61302	EARL_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/12/2025 10:44	61303	EARL_T1	0	0	0	0	0	0	0.96	0.89	0	0	0	0	0	0
3/12/2025 10:44	61302	EARL_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/12/2025 10:44	61306	EARL_T1	4	31	27	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
3/12/2025 10:44	61301	EARL_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
3/12/2025 10:44	61304	EARL_T1	38	149	111	0.18	0.19	0.01	0	0	0	0	0	0	0	0
3/12/2025 10:45	61302	EARL_T1	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
3/12/2025 10:45	61303	EARL_T1	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
3/12/2025 10:45	61306	EARL_T1	28	23	-5	0.19	0.21	0.02	0	0	0	0	0	0	0	0
3/12/2025 10:45	61304	EARL_T1	133	103	-30	0.19	0.21	0.02	-0.08	-0.03	0	0	0	0	0	0
3/12/2025 10:45	40504	CRES_T1	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
3/12/2025 10:46	40504	CRES_T1	0	0	0	0	0	0	-0.52	-0.51	0	0	0	0	0	0
3/12/2025 10:46	55101	WERT_T1	0	0	0	0	0	0	-2.14	2.02	4	4	0	3000	3000	0
3/12/2025 10:46	61304	EARL_T1	133	103	-30	0.19	0.21	0.02	0	0	0	0	0	0	0	0
3/12/2025 10:46	55105	WERT_T1	0	0	0	0	0	0	-0.82	-0.83	1	1	0	900	900	0
3/12/2025 10:46	10801	CHHI_T1	0	6	6	0	0.5	0.5	-0.81	-0.78	1	1	0	900	900	0
3/12/2025 10:46	61301	EARL_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
3/12/2025 10:46	61306	EARL_T1	28	23	-5	0.19	0.21	0.02	0	0	0	0	0	0	0	0
3/12/2025 10:46	61302	EARL_T1	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
3/12/2025 10:47	61303	EARL_T1	0	0	0	0	0	0	0.48	0.44	0	0	0	0	0	0
3/12/2025 10:47	61304	EARL_T1	133	103	-30	0.19	0.21	0.02	-0.08	-0.03	0	0	0	0	0	0
3/12/2025 10:47	61306	EARL_T1	28	23	-5	0.19	0.21	0.02	0	0	0	0	0	0	0	0
3/12/2025 10:47	61302	EARL_T1	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/12/2025 10:48	61301	EARL_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
3/12/2025 10:48	61302	EARL_T1	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
3/12/2025 10:48	63802	HEMP_T1	6	16	10	0.25	0.21	-0.04	0.18	0.17	0	0	0	0	0	0
3/12/2025 10:48	63803	HEMP_T1	14	31	17	0.26	0.22	-0.04	0.01	0.01	0	0	0	0	0	0
3/12/2025 10:48	63804	HEMP_T1	1	2	1	5.5	2.8	-2.7	0	0	0	0	0	0	0	0
3/12/2025 10:48	63801	HEMP_T1	6	12	6	0.22	0.34	0.12	0.29	0.37	0	0	0	0	0	0
3/12/2025 10:48	61304	EARL_T1	133	103	-30	0.19	0.21	0.02	0	0	0	0	0	0	0	0
3/12/2025 10:48	61306	EARL_T1	28	23	-5	0.19	0.21	0.02	0	0	0	0	0	0	0	0
3/12/2025 10:49	63803	HEMP_T1	14	31	17	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
3/12/2025 10:49	63802	HEMP_T1	6	16	10	0.25	0.21	-0.04	0	0	0	0	0	0	0	0
3/12/2025 10:49	63804	HEMP_T1	1	2	1	5.5	2.8	-2.7	0.84	0.83	0	0	0	0	0	0
3/12/2025 10:49	63801	HEMP_T1	6	12	6	0.22	0.34	0.12	0	0	0	0	0	0	0	0
3/12/2025 10:50	63804	HEMP_T1	1	2	1	5.5	2.8	-2.7	0	0	0	0	0	0	0	0
3/12/2025 10:50	63803	HEMP_T1	14	31	17	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
3/12/2025 10:50	63802	HEMP_T1	6	16	10	0.25	0.21	-0.04	0	0	0	0	0	0	0	0
3/12/2025 10:50	63801	HEMP_T1	6	12	6	0.22	0.34	0.12	0.29	0.37	0	0	0	0	0	0
3/12/2025 10:51	63602	LETO_T1	2	11	9	0.1	0.14	0.04	-0.45	-0.48	0	0	0	0	0	0
3/12/2025 10:51	63601	LETO_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 10:52	63801	HEMP_T1	6	12	6	0.22	0.34	0.12	0	0	0	0	0	0	0	0
3/12/2025 10:52	63804	HEMP_T1	1	2	1	5.5	2.8	-2.7	0.83	0.81	0	0	0	0	0	0
3/12/2025 10:52	63602	LETO_T1	2	11	9	0.1	0.14	0.04	-0.45	-0.48	0	0	0	0	0	0
3/12/2025 10:52	63802	HEMP_T1	6	16	10	0.25	0.21	-0.04	0.34	0.24	0	0	0	0	0	0
3/12/2025 10:52	63601	LETO_T1	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 10:52	63803	HEMP_T1	14	31	17	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
3/12/2025 10:54	55002	NEWP_T1	5	7	2	0.54	0.54	0	0	0	0	0	0	0	0	0
3/12/2025 10:54	55001	NEWP_T1	0	0	0	0	0	0	-0.4	-0.33	0	0	0	0	0	0
3/12/2025 10:55	54001	SDLE_T1	63	218	155	0.34	0.37	0.03	0	0	0	0	0	0	0	0
3/12/2025 10:56	55002	NEWP_T1	5	7	2	0.54	0.54	0	0	0	0	0	0	0	0	0
3/12/2025 10:56	54001	SDLE_T1	63	218	155	0.34	0.37	0.03	0	0	0	0	0	0	0	0
3/12/2025 10:56	55001	NEWP_T1	0	0	0	0	0	0	-0.4	-0.33	0	0	0	0	0	0
3/12/2025 10:57	54001	SDLE_T1	63	218	155	0.34	0.37	0.03	0	0	0	0	0	0	0	0
3/12/2025 10:58	54001	SDLE_T1	63	218	155	0.34	0.37	0.03	0	0	0	0	0	0	0	0
3/12/2025 10:59	54001	SDLE_T1	63	218	155	0.34	0.37	0.03	0	0	0	0	0	0	0	0
3/12/2025 10:59	60201	ATGL_T2	15	7	-8	0.16	0.21	0.05	-0.04	-0.1	0	0	0	0	0	0
3/12/2025 11:00	40502	CRES_T2	0	1	1	0	0.2	0.2	0.38	0.38	0	0	0	0	0	0
3/12/2025 11:00	40501	CRES_T2	8	10	2	0.3	0.31	0.01	0	0	0	0	0	0	0	0
3/12/2025 11:01	61802	EELI_T2	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
3/12/2025 11:01	24102	EHAZ_T1	4	2	-2	0.63	2.3	1.67	0.26	0.12	0	0	0	0	0	0
3/12/2025 11:01	24105	EHAZ_T1	4	4	0	6.38	6.23	-0.15	0	0	0	0	0	0	0	0
3/12/2025 11:01	61801	EELI_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/12/2025 11:01	24101	EHAZ_T1	26	36	10	0.51	0.41	-0.1	0	0	0	0	0	0	0	0
3/12/2025 11:02	60201	ATGL_T2	7	6	-1	0.17	0.23	0.06	0	0	0	0	0	0	0	0
3/12/2025 11:02	53901	HAU_T2	1	2	1	0.5	0.6	0.1	-1.1	-1.09	0	0	0	0	0	0
3/12/2025 11:02	40501	CRES_T2	8	10	2	0.3	0.31	0.01	0	0	0	0	0	0	0	0
3/12/2025 11:02	53903	HAU_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
3/12/2025 11:02	40502	CRES_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 11:02	53902	HAU_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
3/12/2025 11:02	53501	EVIL_T2	2	3	1	0.45	0.85	0.4	-0.18	-0.19	1	1	0	600	600	0
3/12/2025 11:03	53501	EVIL_T2	2	3	1	0.45	0.85	0.4	-0.54	-0.56	3	3	0	1800	1800	0
3/12/2025 11:03	60801	BUCK_T1	0	1	1	0	0.2	0.2	0.02	0.06	0	0	0	0	0	0
3/12/2025 11:03	60803	BUCK_T1	8	6	-2	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
3/12/2025 11:04	17802	GILB_T1	1	2	1	0.1	0.4	0.3	0.11	0.1	0	0	0	0	0	0
3/12/2025 11:04	53501	EVIL_T2	2	3	1	0.45	0.85	0.4	-0.18	-0.19	1	1	0	600	600	0
3/12/2025 11:05	60801	BUCK_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 11:05	60803	BUCK_T1	8	6	-2	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
3/12/2025 11:05	64202	KINZ_T1	3	4	1	1.1	0.63	-0.47	0	0	0	0	0	0	0	0
3/12/2025 11:05	64204	KINZ_T1	70	69	-1	1.16	1.08	-0.08	0	0	0	0	0	0	0	0
3/12/2025 11:05	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 11:06	53501	EVIL_T2	2	3	1	0.45	0.85	0.4	-0.18	-0.19	1	1	0	600	600	0
3/12/2025 11:06	53903	HAU_T2	2	2	0	1	1	0	-0.14	-0.14	0	0	0	0	0	0
3/12/2025 11:06	53902	HAU_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
3/12/2025 11:06	53901	HAU_T2	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/12/2025 11:07	64204	KINZ_T1	70	69	-1	1.16	1.08	-0.08	0	0	0	0	0	0	0	0
3/12/2025 11:07	52401	GRPA_T2	145	246	101	0.32	0.53	0.21	0	0	0	0	0	0	0	0
3/12/2025 11:07	42301	MOWR_T2	0	0	0	0	0	0	-0.62	-0.68	0	0	0	0	0	0
3/12/2025 11:07	64203	KINZ_T1	0	0	0	0	0	0	-0.03	0.09	2	2	0	1800	1800	0
3/12/2025 11:07	60803	BUCK_T1	8	6	-2	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
3/12/2025 11:07	53901	HAU_T2	1	2	1	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/12/2025 11:07	53902	HAU_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
3/12/2025 11:07	52403	GRPA_T2	233	364	131	0.52	0.67	0.15	-0.44	-0.45	0	0	0	0	0	0
3/12/2025 11:07	52402	GRPA_T2	92	174	82	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
3/12/2025 11:07	64202	KINZ_T1	3	4	1	1.1	0.63	-0.47	0	0	0	0	0	0	0	0
3/12/2025 11:07	64904	MILL_T1	4	2	-2	0.18	0.25	0.07	0.46	0.45	0	0	0	0	0	0
3/12/2025 11:07	52404	GRPA_T2	3	5	2	0.43	0.36	-0.07	0	0	0	0	0	0	0	0
3/12/2025 11:07	53903	HAU_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
3/12/2025 11:07	64901	MILL_T1	79	47	-32	0.25	0.25	0	0	0	0	0	0	0	0	0
3/12/2025 11:07	60801	BUCK_T1	0	1	1	0	0.2	0.2	0.12	0.02	0	0	0	0	0	0
3/12/2025 11:08	42301	MOWR_T2	0	0	0	0	0	0	-0.93	-1.02	0	0	0	0	0	0
3/12/2025 11:08	58401	MORO_T1	0	4	4	0	0.28	0.28	-2.38	-2.22	2	2	0	1200	1200	0
3/12/2025 11:09	42301	MOWR_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
3/12/2025 11:09	42302	MOWR_T2	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
3/12/2025 11:10	24202	PROV_T4	253	223	-30	0.26	0.26	0	-0.86	-0.84	1	1	0	1200	1200	0
3/12/2025 11:10	58401	MORO_T1	0	4	4	0	0.28	0.28	-1.19	-1.11	1	1	0	600	600	0
3/12/2025 11:10	24203	PROV_T4	5	1	-4	0.28	0.6	0.32	0	0	0	0	0	0	0	0
3/12/2025 11:10	24206	PROV_T4	53	42	-11	0.19	0.15	-0.04	0	0	0	0	0	0	0	0
3/12/2025 11:10	42301	MOWR_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
3/12/2025 11:11	42301	MOWR_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
3/12/2025 11:11	58401	MORO_T1	0	4	4	0	0.28	0.28	-1.19	-1.11	1	1	0	600	600	0
3/12/2025 11:12	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 11:12	55002	NEWP_T1	7	7	0	0.54	0.56	0.02	-0.26	-0.23	0	0	0	0	0	0
3/12/2025 11:12	42301	MOWR_T2	0	0	0	0	0	0	-0.31	-0.34	0	0	0	0	0	0
3/12/2025 11:20	21204	ECAR_T2	1	1	0	0	0	0	-0.59	-0.58	0	0	0	0	0	0
3/12/2025 11:20	21206	ECAR_T2	2	2	0	3.7	3.95	0.25	0	0	0	0	0	0	0	0
3/12/2025 11:21	62602	ENGL_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/12/2025 11:21	62604	ENGL_T1	0	0	0	0	0	0	0.19	0.26	1	1	0	600	600	0
3/12/2025 11:21	62607	ENGL_T1	3	4	1	0.23	0.28	0.05	0	0	0	0	0	0	0	0
3/12/2025 11:21	62605	ENGL_T1	6	9	3	0.18	0.24	0.06	-0.92	-0.93	0	0	0	0	0	0
3/12/2025 11:22	62602	ENGL_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/12/2025 11:22	62607	ENGL_T1	3	4	1	0.23	0.28	0.05	-0.82	-0.84	0	0	0	0	0	0
3/12/2025 11:22	62605	ENGL_T1	6	9	3	0.18	0.24	0.06	-1.84	-1.86	0	0	0	0	0	0
3/12/2025 11:23	62602	ENGL_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/12/2025 11:23	62605	ENGL_T1	6	9	3	0.18	0.24	0.06	-0.92	-0.93	0	0	0	0	0	0
3/12/2025 11:23	62607	ENGL_T1	3	4	1	0.23	0.28	0.05	0	0	0	0	0	0	0	0
3/12/2025 11:25	45501	DERR_T2	5	4	-1	0.42	0.4	-0.02	0.27	0.25	2	2	0	1800	1800	0
3/12/2025 11:26	57403	SPAN_T1	107	163	56	0.29	0.34	0.05	-0.03	-0.05	0	0	0	0	0	0
3/12/2025 11:26	57401	SPAN_T1	2	2	0	1.1	1.25	0.15	0	0	0	0	0	0	0	0
3/12/2025 11:30	45501	DERR_T2	2	6	4	0.4	0.43	0.03	0.27	0.25	2	2	0	1800	1800	0
3/12/2025 11:33	62602	ENGL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/12/2025 11:33	62607	ENGL_T1	4	5	1	0.25	0.26	0.01	0	0	0	0	0	0	0	0
3/12/2025 11:33	62605	ENGL_T1	9	8	-1	0.24	0.23	-0.01	-0.92	-0.93	0	0	0	0	0	0
3/12/2025 11:33	40505	CRES_T1	0	0	0	0	0	0	0.38	0.34	0	0	0	0	0	0
3/12/2025 11:34	62606	ENGL_T1	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
3/12/2025 11:34	62607	ENGL_T1	4	5	1	0.25	0.26	0.01	-0.82	-0.84	0	0	0	0	0	0
3/12/2025 11:34	62602	ENGL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/12/2025 11:34	62605	ENGL_T1	9	8	-1	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
3/12/2025 11:35	62602	ENGL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/12/2025 11:35	45501	DERR_T2	2	6	4	0.4	0.43	0.03	1.07	1.01	8	8	0	7200	7200	0
3/12/2025 11:35	62607	ENGL_T1	4	5	1	0.25	0.26	0.01	-0.82	-0.84	0	0	0	0	0	0
3/12/2025 11:35	62605	ENGL_T1	9	8	-1	0.24	0.23	-0.01	-0.92	-0.93	0	0	0	0	0	0
3/12/2025 11:35	62601	ENGL_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
3/12/2025 11:36	52402	GRPA_T2	162	207	45	0.46	0.57	0.11	0	0	0	0	0	0	0	0
3/12/2025 11:36	52401	GRPA_T2	219	129	-90	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
3/12/2025 11:36	62607	ENGL_T1	4	5	1	0.25	0.26	0.01	0	0	0	0	0	0	0	0
3/12/2025 11:36	52404	GRPA_T2	2	12	10	0.7	0.38	-0.32	0	0	0	0	0	0	0	0
3/12/2025 11:36	45501	DERR_T2	2	6	4	0.4	0.43	0.03	0.25	0.12	2	2	0	1800	1800	0
3/12/2025 11:36	21601	EYNO_T1	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
3/12/2025 11:36	21606	EYNO_T1	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/12/2025 11:36	62606	ENGL_T1	0	0	0	0	0	0	-0.65	-0.62	0	0	0	0	0	0
3/12/2025 11:36	62602	ENGL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/12/2025 11:36	62605	ENGL_T1	9	8	-1	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
3/12/2025 11:36	52403	GRPA_T2	317	362	45	0.71	0.7	-0.01	0	0	0	0	0	0	0	0
3/12/2025 11:38	45501	DERR_T2	2	6	4	0.4	0.43	0.03	0.25	0.12	2	2	0	1800	1800	0
3/12/2025 11:38	40505	CRES_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
3/12/2025 11:38	40501	CRES_T2	10	11	1	0.31	0.4	0.09	0	0	0	0	0	0	0	0
3/12/2025 11:39	62602	ENGL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/12/2025 11:39	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 11:39	51109	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 11:39	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 11:39	51102	CARL_T1	3	3	0	1.2	1.33	0.13	0	0	0	0	0	0	0	0
3/12/2025 11:39	51101	CARL_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
3/12/2025 11:39	42301	MOWR_T2	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
3/12/2025 11:39	62607	ENGL_T1	4	5	1	0.25	0.26	0.01	-1.68	-1.64	0	0	0	0	0	0
3/12/2025 11:39	62605	ENGL_T1	9	8	-1	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
3/12/2025 11:40	10602	BLGL_T2	2	2	0	0.8	0.65	-0.15	0.48	0.69	0	0	0	0	0	0
3/12/2025 11:40	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 11:41	45501	DERR_T2	2	6	4	0.4	0.43	0.03	0.25	0.12	2	2	0	1800	1800	0
3/12/2025 11:41	62602	ENGL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/12/2025 11:41	52402	GRPA_T2	162	207	45	0.46	0.57	0.11	0	0	0	0	0	0	0	0
3/12/2025 11:41	62605	ENGL_T1	9	8	-1	0.24	0.23	-0.01	-0.93	-0.91	0	0	0	0	0	0
3/12/2025 11:41	62607	ENGL_T1	4	5	1	0.25	0.26	0.01	0	0	0	0	0	0	0	0
3/12/2025 11:41	52404	GRPA_T2	2	12	10	0.7	0.38	-0.32	0.74	0.75	0	0	0	0	0	0
3/12/2025 11:41	52401	GRPA_T2	219	129	-90	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
3/12/2025 11:41	52403	GRPA_T2	317	362	45	0.71	0.7	-0.01	0	0	0	0	0	0	0	0
3/12/2025 11:42	62607	ENGL_T1	4	5	1	0.25	0.26	0.01	-0.84	-0.82	0	0	0	0	0	0
3/12/2025 11:42	62605	ENGL_T1	9	8	-1	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
3/12/2025 11:42	62602	ENGL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/12/2025 11:42	55002	NEWP_T1	7	13	6	0.56	0.72	0.16	0	0	0	0	0	0	0	0
3/12/2025 11:42	55001	NEWP_T1	1	2	1	0.1	0.5	0.4	-0.35	-0.34	0	0	0	0	0	0
3/12/2025 11:43	67401	WAKE_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
3/12/2025 11:43	67402	WAKE_T2	0	0	0	0	0	0	1.93	1.97	0	0	0	0	0	0
3/12/2025 11:44	46004	BERW_T2	1	1	0	0.2	1.3	1.1	-0.36	-0.37	0	0	0	0	0	0
3/12/2025 11:44	10601	BLGL_T1	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/12/2025 11:44	46002	BERW_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/12/2025 11:44	16302	ALPA_T2	0	1	1	0	0.1	0.1	0.68	0.59	0	0	0	0	0	0
3/12/2025 11:44	10603	BLGL_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
3/12/2025 11:46	67303	WYOM_T2	0	0	0	0	0	0	0.41	0.37	0	0	0	0	0	0
3/12/2025 11:46	16102	BING_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
3/12/2025 11:46	16302	ALPA_T2	1	0	-1	0.1	0	-0.1	1.35	1.17	0	0	0	0	0	0
3/12/2025 11:46	16103	BING_T2	1	1	0	0.6	0.2	-0.4	0	0	2	2	0	1500	1500	0
3/12/2025 11:48	52401	GRPA_T2	90	125	35	0.39	0.5	0.11	0	0	0	0	0	0	0	0
3/12/2025 11:48	52404	GRPA_T2	8	10	2	0.41	0.38	-0.03	0	0	0	0	0	0	0	0
3/12/2025 11:48	52402	GRPA_T2	137	206	69	0.69	0.55	-0.14	0	0	0	0	0	0	0	0
3/12/2025 11:48	16302	ALPA_T2	1	0	-1	0.1	0	-0.1	0.68	0.59	0	0	0	0	0	0
3/12/2025 11:48	52403	GRPA_T2	338	306	-32	0.71	0.62	-0.09	-0.42	-0.43	0	0	0	0	0	0
3/12/2025 11:49	52403	GRPA_T2	338	306	-32	0.71	0.62	-0.09	-0.42	-0.43	0	0	0	0	0	0
3/12/2025 11:49	52401	GRPA_T2	90	125	35	0.39	0.5	0.11	0	0	0	0	0	0	0	0
3/12/2025 11:49	44801	EDAN_T2	1	1	0	0.3	0	-0.3	-0.42	-0.43	0	0	0	0	0	0
3/12/2025 11:49	52402	GRPA_T2	137	206	69	0.69	0.55	-0.14	0	0	0	0	0	0	0	0
3/12/2025 11:49	52404	GRPA_T2	8	10	2	0.41	0.38	-0.03	0	0	0	0	0	0	0	0
3/12/2025 11:51	52404	GRPA_T2	8	10	2	0.41	0.38	-0.03	0.74	0.75	0	0	0	0	0	0
3/12/2025 11:51	52403	GRPA_T2	338	306	-32	0.71	0.62	-0.09	0	0	0	0	0	0	0	0
3/12/2025 11:51	52402	GRPA_T2	137	206	69	0.69	0.55	-0.14	0	0	0	0	0	0	0	0
3/12/2025 11:51	52401	GRPA_T2	90	125	35	0.39	0.5	0.11	0	0	0	0	0	0	0	0
3/12/2025 11:52	52402	GRPA_T2	137	206	69	0.69	0.55	-0.14	0	0	0	0	0	0	0	0
3/12/2025 11:52	52403	GRPA_T2	338	306	-32	0.71	0.62	-0.09	-0.43	-0.46	0	0	0	0	0	0
3/12/2025 11:52	52404	GRPA_T2	8	10	2	0.41	0.38	-0.03	0	0	0	0	0	0	0	0
3/12/2025 11:52	52401	GRPA_T2	90	125	35	0.39	0.5	0.11	0	0	0	0	0	0	0	0
3/12/2025 11:53	40602	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 11:53	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 11:53	40601	PIGR_T1	28	155	127	0.24	0.31	0.07	0	0	0	0	0	0	0	0
3/12/2025 11:53	42302	MOWR_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
3/12/2025 11:53	44801	EDAN_T2	1	1	0	0.3	0	-0.3	-0.43	-0.39	0	0	0	0	0	0
3/12/2025 11:54	43201	MVIL_T2	4	8	4	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
3/12/2025 11:54	52402	GRPA_T2	137	206	69	0.69	0.55	-0.14	0	0	0	0	0	0	0	0
3/12/2025 11:54	43202	MVIL_T2	176	208	32	0.93	1.1	0.17	-0.57	-0.6	0	0	0	0	0	0
3/12/2025 11:54	52403	GRPA_T2	338	306	-32	0.71	0.62	-0.09	-0.86	-0.92	0	0	0	0	0	0
3/12/2025 11:54	52404	GRPA_T2	8	10	2	0.41	0.38	-0.03	0	0	0	0	0	0	0	0
3/12/2025 11:54	52401	GRPA_T2	90	125	35	0.39	0.5	0.11	-0.68	-0.8	0	0	0	0	0	0
3/12/2025 11:55	52102	MEIS_T1	0	1	1	0	0.5	0.5	0	0	1	1	0	450	450	0
3/12/2025 11:55	52101	MEIS_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
3/12/2025 11:55	40601	PIGR_T1	28	155	127	0.24	0.31	0.07	0.05	0.06	0	0	0	0	0	0
3/12/2025 11:55	40602	PIGR_T1	0	2	2	0	0.1	0.1	-0.08	-0.1	0	0	0	0	0	0
3/12/2025 11:56	40601	PIGR_T1	28	155	127	0.24	0.31	0.07	0.05	0.06	0	0	0	0	0	0
3/12/2025 11:56	43201	MVIL_T2	4	8	4	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
3/12/2025 11:56	43202	MVIL_T2	176	208	32	0.93	1.1	0.17	-1.14	-1.2	0	0	0	0	0	0
3/12/2025 11:56	40602	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 11:57	40601	PIGR_T1	28	155	127	0.24	0.31	0.07	0	0	0	0	0	0	0	0
3/12/2025 11:57	55001	NEWP_T1	11	12	1	0.68	0.74	0.06	-0.25	-0.25	0	0	0	0	0	0
3/12/2025 11:57	55001	NEWP_T1	1	1	0	0.2	0.8	0.6	-0.34	-0.45	0	0	0	0	0	0
3/12/2025 11:57	40602	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 11:58	40601	PIGR_T1	28	155	127	0.24	0.31	0.07	0.05	0.06	0	0	0	0	0	0
3/12/2025 11:58	40602	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 12:00	10903	COOP_T2	4	4	0	0.68	0.75	0.07	0	0	0	0	0	0	0	0
3/12/2025 12:00	10901	COOP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 12:01	43402	BENT_T1	1	3	2	0.7	0.43	-0.27	-0.81	-0.8	1	1	0	900	900	0
3/12/2025 12:02	45501	DERR_T2	4	0	-4	0.33	0	-0.33	0.12	0.02	2	2	0	1800	1800	0
3/12/2025 12:04	46801	HEPB_T2	3	10	7	1.13	0.44	-0.69	0.51	0.51	0	0	0	0	0	0
3/12/2025 12:04	46803	HEPB_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/12/2025 12:05	40101	HUNT_T2	0	0	0	0	0	0	-1.45	-1.45	0	0	0	0	0	0
3/12/2025 12:05	46803	HEPB_T2	1	2	1	0.2	0.2	0	0.47	0.48	0	0	0	0	0	0
3/12/2025 12:05	46801	HEPB_T2	3	10	7	1.13	0.44	-0.69	0	0	0	0	0	0	0	0
3/12/2025 12:06	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 12:06	46505	LOHA_T1	0	0	0	0	0	0	-0.29	-0.28	1	1	0	600	600	0
3/12/2025 12:06	46504	LOHA_T1	2	1	-1	1.05	0.2	-0.85	0	0	0	0	0	0	0	0
3/12/2025 12:06	46506	LOHA_T1	3	0	-3	4.67	4.57	-0.1	0	0	0	0	0	0	0	0
3/12/2025 12:07	46802	HEPB_T1	1	1	0	1	1.3	0.3	-0.36	-0.4	0	0	0	0	0	0
3/12/2025 12:08	53902	HALI_T2	1	4	3	5.7	1.85	-3.85	0	0	0	0	0	0	0	0
3/12/2025 12:08	58401	MORO_T1	3	9	6	0.3	0.3	0	-1.17	-1.17	1	1	0	600	600	0
3/12/2025 12:08	52402	GRPA_T2	205	57	-148	0.55	0.34	-0.21	0	0	0	0	0	0	0	0
3/12/2025 12:08	53901	HALI_T2	2	4	2	0.55	0.48	-0.07	-1.11	-1.08	0	0	0	0	0	0
3/12/2025 12:08	52403	GRPA_T2	306	53	-253	0.62	0.91	0.29	0	0	0	0	0	0	0	0
3/12/2025 12:08	52401	GRPA_T2	125	3	-122	0.5	0.23	-0.27	-0.8	-1.08	0	0	0	0	0	0
3/12/2025 12:08	58402	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 12:08	52404	GRPA_T2	10	1	-9	0.38	0.3	-0.08	0	0	0	0	0	0	0	0
3/12/2025 12:08	53903	HALI_T2	6	11	5	0.73	0.74	0.01	0	0	0	0	0	0	0	0
3/12/2025 12:09	52502	PROG_T2	1	4	3	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/12/2025 12:10	52502	PROG_T2	1	4	3	0.2	0.25	0.05	-1.5	-1.46	2	2	0	1800	1800	0
3/12/2025 12:10	15601	NSTR_T2	3	4	1	0.43	0.55	0.12	0	0	0	0	0	0	0	0
3/12/2025 12:10	15603	NSTR_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/12/2025 12:10	52102	MEIS_T1	0	2	2	0	0.45	0.45	0	0	1	1	0	450	450	0
3/12/2025 12:10	52101	MEIS_T1	0	1	1	0	1	1	0	0	0	0	0	0	0	0
3/12/2025 12:11	15603	NSTR_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/12/2025 12:11	58402	MORO_T1	0	1	1	0	0.2	0.2	-0.12	0.38	2	1	-1	1500	900	-600
3/12/2025 12:11	15601	NSTR_T2	3	4	1	0.43	0.55	0.12	0	0	0	0	0	0	0	0
3/12/2025 12:11	58401	MORO_T1	3	9	6	0.3	0.3	0	0	0	0	0	0	0	0	0
3/12/2025 12:11	52502	PROG_T2	1	4	3	0.2	0.25	0.05	-0.75	-0.73	1	1	0	900	900	0
3/12/2025 12:12	48303	ORWI_T2	0	0	0	0	0	0	0.47	0.5	0	0	0	0	0	0
3/12/2025 12:12	52502	PROG_T2	1	4	3	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/12/2025 12:12	48302	ORWI_T2	2	2	0	8.6	9.25	0.65	0	0	0	0	0	0	0	0
3/12/2025 12:12	58402	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 12:12	58401	MORO_T1	3	9	6	0.3	0.3	0	-1.17	-1.17	1	1	0	600	600	0
3/12/2025 12:13	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 12:13	59201	THOM_T1	118	55	-63	0.61	0.38	-0.23	0	0	0	0	0	0	0	0
3/12/2025 12:13	52502	PROG_T2	1	4	3	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/12/2025 12:13	59202	THOM_T1	625	446	-179	0.72	0.37	-0.35	0	0	0	0	0	0	0	0
3/12/2025 12:15	59201	THOM_T1	55	3	-52	0.38	0.73	0.35	0	0	0	0	0	0	0	0
3/12/2025 12:15	59202	THOM_T1	446	10	-436	0.37	0.38	0.01	0	0	0	0	0	0	0	0
3/12/2025 12:16	59202	THOM_T1	446	10	-436	0.37	0.38	0.01	0	0	0	0	0	0	0	0
3/12/2025 12:16	59201	THOM_T1	55	3	-52	0.38	0.73	0.35	0	0	0	0	0	0	0	0
3/12/2025 12:17	59202	THOM_T1	446	10	-436	0.37	0.38	0.01	0	0	0	0	0	0	0	0
3/12/2025 12:17	61302	EARL_T1	0	1	1	0	0.2	0.2	0.71	0.74	1	1	0	1200	1200	0
3/12/2025 12:17	59201	THOM_T1	55	3	-52	0.38	0.73	0.35	0	0	0	0	0	0	0	0
3/12/2025 12:17	61304	EARL_T1	49	270	221	0.19	0.2	0.01	0	0	0	0	0	0	0	0
3/12/2025 12:17	61303	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 12:17	61306	EARL_T1	3	25	22	0.13	0.22	0.09	0	0	0	0	0	0	0	0
3/12/2025 12:19	59201	THOM_T1	55	3	-52	0.38	0.73	0.35	0	0	0	0	0	0	0	0
3/12/2025 12:19	59202	THOM_T1	446	10	-436	0.37	0.38	0.01	0	0	0	0	0	0	0	0
3/12/2025 12:21	54505	ENOL_T2	2	3	1	0.7	0.7	0	0	0	0	0	0	0	0	0
3/12/2025 12:21	54504	ENOL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/12/2025 12:21	54502	ENOL_T2	1	2	1	1.2	0.8	-0.4	-2.12	-2.13	1	1	0	600	600	0
3/12/2025 12:22	22602	KIMB_T1	0	1	1	0	0.2	0.2	0.13	0.16	0	0	0	0	0	0
3/12/2025 12:22	22601	KIMB_T1	2	2	0	0.35	0.8	0.45	0	0	0	0	0	0	0	0
3/12/2025 12:23	22601	KIMB_T1	2	2	0	0.35	0.8	0.45	0	0	0	0	0	0	0	0
3/12/2025 12:23	22602	KIMB_T1	0	1	1	0	0.2	0.2	0.13	0.16	0	0	0	0	0	0
3/12/2025 12:24	58401	MORO_T1	8	9	1	0.26	0.29	0.03	0	0	0	0	0	0	0	0
3/12/2025 12:24	58402	MORO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/12/2025 12:24	13303	ORVI_T1	1	3	2	0.1	0.4	0.3	0.96	0.97	0	0	0	0	0	0
3/12/2025 12:26	48303	ORWI_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/12/2025 12:26	13303	ORVI_T1	1	3	2	0.1	0.4	0.3	0.96	0.97	0	0	0	0	0	0
3/12/2025 12:26	48302	ORWI_T2	2	2	0	9.1	9.4	0.3	-0.06	-0.1	0	0	0	0	0	0
3/12/2025 12:27	57205	ROSS_T1	6	8	2	1.03	0.93	-0.1	0.18	0.34	0	0	0	0	0	0
3/12/2025 12:27	57201	ROSS_T1	11	17	6	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
3/12/2025 12:27	57203	ROSS_T1	4	5	1	0.28	0.34	0.06	0	0	0	0	0	0	0	0
3/12/2025 12:28	57203	ROSS_T1	4	5	1	0.28	0.34	0.06	0	0	0	0	0	0	0	0
3/12/2025 12:28	57201	ROSS_T1	11	17	6	0.33	0.3	-0.03	-0.85	-0.71	0	0	0	0	0	0
3/12/2025 12:28	10101	ALLE_T3	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
3/12/2025 12:28	57205	ROSS_T1	6	8	2	1.03	0.93	-0.1	0	0	0	0	0	0	0	0
3/12/2025 12:28	26102	THRO_T1	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/12/2025 12:30	61803	EELI_T2	0	0	0	0	0	0	0.89	0.86	0	0	0	0	0	0
3/12/2025 12:30	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 12:30	61801	EELI_T2	4	6	2	0.23	0.33	0.1	0	0	0	0	0	0	0	0
3/12/2025 12:31	23201	HIRU_T2	2	2	0	0.15	0.15	0	0.17	0.16	0	0	0	0	0	0
3/12/2025 12:32	16102	BING_T2	1	5	4	0.2	0.56	0.36	0	0	0	0	0	0	0	0
3/12/2025 12:32	16103	BING_T2	1	1	0	0.9	1.1	0.2	0	0	2	2	0	1500	1500	0
3/12/2025 12:32	16101	BING_T2	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
3/12/2025 12:33	53501	EVIL_T2	3	2	-1	0.5	0.35	-0.15	-0.4	-0.21	1	1	0	600	600	0
3/12/2025 12:33	17802	GILB_T1	2	1	-1	0.85	0.5	-0.35	0.04	0.04	0	0	0	0	0	0
3/12/2025 12:33	54505	ENOL_T2	2	3	1	0.95	0.7	-0.25	0	0	0	0	0	0	0	0
3/12/2025 12:33	54504	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/12/2025 12:33	54502	ENOL_T2	2	2	0	0.8	0.7	-0.1	-2.13	-2.16	1	1	0	600	600	0
3/12/2025 12:35	40101	HUNT_T2	0	4	4	0	0.38	0.38	-1.46	-1.43	0	0	0	0	0	0
3/12/2025 12:36	40101	HUNT_T2	0	4	4	0	0.38	0.38	-1.43	-1.47	0	0	0	0	0	0
3/12/2025 12:36	20601	GRWO_T2	0	0	0	0	0	0	1.38	1.3	0	0	0	0	0	0
3/12/2025 12:37	54502	ENOL_T2	2	2	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/12/2025 12:37	54505	ENOL_T2	2	3	1	0.95	0.7	-0.25	-1.41	-1.41	1	1	0	600	600	0
3/12/2025 12:37	54504	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/12/2025 12:37	15702	TANN_T2	1	0	-1	0.2	0	-0.2	-0.43	-0.46	0	0	0	0	0	0
3/12/2025 12:37	15703	TANN_T2	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
3/12/2025 12:38	15703	TANN_T2	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
3/12/2025 12:38	15702	TANN_T2	1	0	-1	0.2	0	-0.2	-0.43	-0.46	0	0	0	0	0	0
3/12/2025 12:38	64802	MONE_T2	217	299	82	0.73	0.63	-0.1	83.96	83.96	0	0	0	0	0	0
3/12/2025 12:38	64801	MONE_T2	176	178	2	1.09	1.18	0.09	0	0	0	0	0	0	0	0
3/12/2025 12:39	15702	TANN_T2	1	0	-1	0.2	0	-0.2	-0.43	-0.46	0	0	0	0	0	0
3/12/2025 12:39	47402	PENS_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/12/2025 12:39	47403	PENS_T1	1	1	0	1.8	2.1	0.3	0	0	0	0	0	0	0	0
3/12/2025 12:39	15703	TANN_T2	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
3/12/2025 12:39	47401	PENS_T1	3	3	0	0.7	0.77	0.07	0	0	0	0	0	0	0	0
3/12/2025 12:40	64802	MONE_T2	217	299	82	0.73	0.63	-0.1	83.96	83.96	0	0	0	0	0	0
3/12/2025 12:40	64801	MONE_T2	176	178	2	1.09	1.18	0.09	0.28	0.2	0	0	0	0	0	0
3/12/2025 12:41	64802	MONE_T2	217	299	82	0.73	0.63	-0.1	0	0	0	0	0	0	0	0
3/12/2025 12:41	64801	MONE_T2	176	178	2	1.09	1.18	0.09	0	0	0	0	0	0	0	0
3/12/2025 12:43	41202	KENM_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
3/12/2025 12:44	13901	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 12:44	13902	SEID_T1	0	2	2	0	1	1	0	0	0	0	0	0	0	0
3/12/2025 12:44	13905	SEID_T1	0	3	3	0	0.43	0.43	0.22	0.2	0	0	0	0	0	0
3/12/2025 12:46	41602	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/12/2025 12:46	11303	EMMA_T1	4	6	2	0.68	0.7	0.02	0	0	0	0	0	0	0	0
3/12/2025 12:46	45902	AUBU_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 12:46	11302	EMMA_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/12/2025 12:46	11301	EMMA_T1	0	1	1	0	0.1	0.1	-0.94	-0.91	0	0	0	0	0	0
3/12/2025 12:46	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 12:46	40504	CRES_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/12/2025 12:46	40505	CRES_T1	3	2	-1	0.27	0.1	-0.17	0.39	0.4	0	0	0	0	0	0
3/12/2025 12:46	41601	CLEV_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
3/12/2025 12:47	40504	CRES_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/12/2025 12:47	40505	CRES_T1	3	2	-1	0.27	0.1	-0.17	1.17	1.2	0	0	0	0	0	0
3/12/2025 12:48	40501	CRES_T2	13	15	2	0.35	0.39	0.04	0	0	0	0	0	0	0	0
3/12/2025 12:48	11302	EMMA_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/12/2025 12:48	40505	CRES_T1	3	2	-1	0.27	0.1	-0.17	1.17	1.2	0	0	0	0	0	0
3/12/2025 12:48	40502	CRES_T2	6	7	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/12/2025 12:48	41501	FAIR_T2	0	0	0	0	0	0	-0.37	-0.36	1	1	0	600	600	0
3/12/2025 12:48	11303	EMMA_T1	4	6	2	0.68	0.7	0.02	0	0	0	0	0	0	0	0
3/12/2025 12:48	40504	CRES_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/12/2025 12:48	11301	EMMA_T1	0	1	1	0	0.1	0.1	-0.94	-0.91	0	0	0	0	0	0
3/12/2025 12:48	53501	EVIL_T2	2	2	0	0.35	0.3	-0.05	-0.21	-0.26	1	1	0	600	600	0
3/12/2025 12:48	41602	CLEV_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 12:48	41601	CLEV_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
3/12/2025 12:49	40505	CRES_T1	3	2	-1	0.27	0.1	-0.17	0.39	0.4	0	0	0	0	0	0
3/12/2025 12:49	40504	CRES_T1	1	1	0	0.2	0.1	-0.1	0.52	0.47	0	0	0	0	0	0
3/12/2025 12:50	11302	EMMA_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/12/2025 12:50	11303	EMMA_T1	4	6	2	0.68	0.7	0.02	0	0	0	0	0	0	0	0
3/12/2025 12:50	53501	EVIL_T2	2	2	0	0.35	0.3	-0.05	-0.21	-0.26	1	1	0	600	600	0
3/12/2025 12:50	11301	EMMA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 12:51	40101	HUNT_T2	4	3	-1	0.35	0.37	0.02	-1.47	-1.41	0	0	0	0	0	0
3/12/2025 12:52	28102	TWLA_T2	0	7	7	0	0.27	0.27	0.18	0.18	0	0	0	0	0	0
3/12/2025 12:52	47101	MARL_T1	0	0	0	0	0	0	-1.28	-1.28	0	0	0	0	0	0
3/12/2025 12:52	64701	LITI_T1	0	0	0	0	0	0	0.53	0.35	0	0	0	0	0	0
3/12/2025 12:53	47403	PENS_T1	1	1	0	1.3	2.1	0.8	0	0	0	0	0	0	0	0
3/12/2025 12:53	47402	PENS_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/12/2025 12:53	47401	PENS_T1	2	6	4	0.35	0.92	0.57	0.75	0.81	0	0	0	0	0	0
3/12/2025 12:54	48302	ORWI_T2	2	3	1	9.4	9.4	0	-0.08	-0.07	0	0	0	0	0	0
3/12/2025 12:54	52403	GRPA_T2	34	31	-3	0.81	0.96	0.15	-0.64	-0.61	0	0	0	0	0	0
3/12/2025 12:54	48303	ORWI_T2	2	2	0	0.35	0.6	0.25	0	0	0	0	0	0	0	0
3/12/2025 12:54	52401	GRPA_T2	2	3	1	0.4	0.43	0.03	0	0	0	0	0	0	0	0
3/12/2025 12:54	52402	GRPA_T2	11	9	-2	0.59	0.59	0	0	0	0	0	0	0	0	0
3/12/2025 12:57	43304	WATS_T2	0	0	0	0	0	0	0.84	1.22	0	0	0	0	0	0
3/12/2025 12:58	10203	ALLE_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/12/2025 12:58	13901	SEID_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 12:58	10102	ALLE_T2	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
3/12/2025 12:58	13902	SEID_T1	1	3	2	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/12/2025 12:58	43304	WATS_T2	0	0	0	0	0	0	0.42	0.61	0	0	0	0	0	0
3/12/2025 12:58	10206	ALLE_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/12/2025 12:58	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 12:58	13905	SEID_T1	0	3	3	0	0.47	0.47	0	0	0	0	0	0	0	0
3/12/2025 12:59	20401	ASHF_T2	8	13	5	0.39	0.42	0.03	0.38	0.35	0	0	0	0	0	0
3/12/2025 12:59	43304	WATS_T2	0	0	0	0	0	0	0.84	1.22	0	0	0	0	0	0
3/12/2025 12:59	20403	ASHF_T2	55	110	55	0.37	0.35	-0.02	-0.05	0.01	0	0	0	0	0	0
3/12/2025 13:00	43304	WATS_T2	0	0	0	0	0	0	0.84	1.22	0	0	0	0	0	0
3/12/2025 13:00	44203	POIN_T2	0	1	1	0	0	0	-0.32	-0.34	2	2	0	2100	2100	0
3/12/2025 13:01	20401	ASHF_T2	11	13	2	0.57	0.39	-0.18	0.38	0.35	0	0	0	0	0	0
3/12/2025 13:01	43304	WATS_T2	0	0	0	0	0	0	0.84	1.22	0	0	0	0	0	0
3/12/2025 13:01	20403	ASHF_T2	78	104	26	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
3/12/2025 13:02	41602	CLEV_T1	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
3/12/2025 13:02	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 13:02	20401	ASHF_T2	11	13	2	0.57	0.39	-0.18	0	0	0	0	0	0	0	0
3/12/2025 13:02	20403	ASHF_T2	78	104	26	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
3/12/2025 13:02	41601	CLEV_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/12/2025 13:03	40101	HUNT_T2	3	4	1	0.37	0.3	-0.07	-1.47	-1.41	0	0	0	0	0	0
3/12/2025 13:03	41602	CLEV_T1	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
3/12/2025 13:03	41601	CLEV_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/12/2025 13:04	11202	ELHE_T2	0	0	0	0	0	0	0.4	0.36	1	1	0	1200	1200	0
3/12/2025 13:04	63601	LETO_T1	0	2	2	0	0.1	0.1	-40.39	-20.13	1	1	0	900	900	0
3/12/2025 13:04	63602	LETO_T1	3	6	3	0.4	0.4	0	0	0	0	0	0	0	0	0
3/12/2025 13:04	41602	CLEV_T1	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
3/12/2025 13:04	41601	CLEV_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/12/2025 13:05	63602	LETO_T1	3	6	3	0.4	0.4	0	0	0	0	0	0	0	0	0
3/12/2025 13:05	63601	LETO_T1	0	2	2	0	0.1	0.1	-80.78	-40.26	2	2	0	1800	1800	0
3/12/2025 13:06	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.03	0	0	0	0	0	0
3/12/2025 13:07	52403	GRPA_T2	30	33	3	0.93	0.93	0	-0.61	-0.6	0	0	0	0	0	0
3/12/2025 13:07	52401	GRPA_T2	3	3	0	0.4	0.53	0.13	0	0	0	0	0	0	0	0
3/12/2025 13:07	52402	GRPA_T2	9	13	4	0.43	0.58	0.15	0	0	0	0	0	0	0	0
3/12/2025 13:08	63602	LETO_T1	3	6	3	0.4	0.4	0	0	0	0	0	0	0	0	0
3/12/2025 13:08	63601	LETO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 13:12	14801	TREI_T2	129	125	-4	0.32	0.28	-0.04	0.29	0.25	0	0	0	0	0	0
3/12/2025 13:12	14802	TREI_T2	32	31	-1	0.26	0.28	0.02	0.58	0.58	0	0	0	0	0	0
3/12/2025 13:13	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 13:13	45902	AUBU_T1	2	0	-2	0.1	0	-0.1	0	0	1	1	0	600	600	0
3/12/2025 13:14	10101	ALLE_T3	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
3/12/2025 13:14	45902	AUBU_T1	2	0	-2	0.1	0	-0.1	0	0	1	1	0	600	600	0
3/12/2025 13:14	14801	TREI_T2	129	125	-4	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
3/12/2025 13:14	41601	CLEV_T1	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/12/2025 13:14	14802	TREI_T2	32	31	-1	0.26	0.28	0.02	0.29	0.29	0	0	0	0	0	0
3/12/2025 13:14	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 13:14	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 13:14	41602	CLEV_T1	0	4	4	0	0.38	0.38	0	0	0	0	0	0	0	0
3/12/2025 13:15	45902	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 13:15	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/12/2025 13:16	13901	SEID_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/12/2025 13:16	13905	SEID_T1	2	5	3	0.65	0.46	-0.19	0	0	0	0	0	0	0	0
3/12/2025 13:16	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/12/2025 13:16	13902	SEID_T1	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
3/12/2025 13:16	14801	TREI_T2	119	166	47	0.28	0.32	0.04	0.29	0.25	0	0	0	0	0	0
3/12/2025 13:16	14802	TREI_T2	28	48	20	0.29	0.3	0.01	0.58	0.58	0	0	0	0	0	0
3/12/2025 13:16	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/12/2025 13:16	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 13:17	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/12/2025 13:17	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/12/2025 13:18	45901	AUBU_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/12/2025 13:18	16102	BING_T2	1	5	4	0.5	0.64	0.14	0	0	0	0	0	0	0	0
3/12/2025 13:18	41602	CLEV_T1	1	5	4	0.1	0.54	0.44	0	0	0	0	0	0	0	0
3/12/2025 13:18	41601	CLEV_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
3/12/2025 13:18	62602	ENGL_T1	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/12/2025 13:18	45902	AUBU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
3/12/2025 13:18	16103	BING_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/12/2025 13:18	62607	ENGL_T1	9	19	10	0.28	0.33	0.05	0	0	0	0	0	0	0	0
3/12/2025 13:18	16101	BING_T2	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
3/12/2025 13:18	62605	ENGL_T1	10	40	30	0.31	0.27	-0.04	-0.9	-0.89	0	0	0	0	0	0
3/12/2025 13:19	62602	ENGL_T1	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/12/2025 13:19	62607	ENGL_T1	9	19	10	0.28	0.33	0.05	-0.81	-0.83	0	0	0	0	0	0
3/12/2025 13:19	62605	ENGL_T1	10	40	30	0.31	0.27	-0.04	0	0	0	0	0	0	0	0
3/12/2025 13:20	52401	GRPA_T2	2	3	1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
3/12/2025 13:20	62602	ENGL_T1	1	3	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/12/2025 13:20	52403	GRPA_T2	29	35	6	0.93	0.86	-0.07	-0.61	-0.6	0	0	0	0	0	0
3/12/2025 13:20	63601	LETO_T1	0	2	2	0	0.1	0.1	-20.13	-20.13	1	1	0	900	900	0
3/12/2025 13:20	41601	CLEV_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
3/12/2025 13:20	41001	LAUR_T2	85	88	3	0.64	0.77	0.13	0	0	0	0	0	0	0	0
3/12/2025 13:20	62607	ENGL_T1	9	19	10	0.28	0.33	0.05	-0.81	-0.83	0	0	0	0	0	0
3/12/2025 13:20	63501	HEID_TBK1-2	14	60	46	0.29	0.31	0.02	0	0.53	2	2	0	1800	1800	0
3/12/2025 13:20	62605	ENGL_T1	10	40	30	0.31	0.27	-0.04	0	0	0	0	0	0	0	0
3/12/2025 13:20	63602	LETO_T1	3	10	7	0.3	0.32	0.02	0	0	0	0	0	0	0	0
3/12/2025 13:20	52402	GRPA_T2	9	13	4	0.59	0.57	-0.02	0	0	0	0	0	0	0	0
3/12/2025 13:20	41602	CLEV_T1	1	5	4	0.1	0.54	0.44	0	0	0	0	0	0	0	0
3/12/2025 13:20	41002	LAUR_T2	56	60	4	0.56	0.69	0.13	0	0	0	0	0	0	0	0
3/12/2025 13:21	63501	HEID_TBK1-2	14	60	46	0.29	0.31	0.02	0.53	0.26	2	2	0	1800	1800	0
3/12/2025 13:21	44502	HAMI_T2	1	2	1	2.8	1.5	-1.3	0.04	0.05	0	0	0	0	0	0
3/12/2025 13:21	59302	MCAL_T1	1	2	1	0.3	0.35	0.05	-0.37	-0.42	1	1	0	600	600	0
3/12/2025 13:21	59301	MCAL_T1	7	9	2	0.7	0.64	-0.06	0	0	0	0	0	0	0	0
3/12/2025 13:23	52401	GRPA_T2	2	3	1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
3/12/2025 13:23	52403	GRPA_T2	29	35	6	0.93	0.86	-0.07	-0.6	-0.61	0	0	0	0	0	0
3/12/2025 13:23	52402	GRPA_T2	9	13	4	0.59	0.57	-0.02	0	0	0	0	0	0	0	0
3/12/2025 13:24	63501	HEID_TBK1-2	14	60	46	0.29	0.31	0.02	0	0	0	0	0	0	0	0
3/12/2025 13:26	64101	REFR_T1	9	56	47	0.53	0.29	-0.24	-0.15	-0.15	0	0	0	0	0	0
3/12/2025 13:28	67401	WAKE_T2	4	5	1	0.38	0.2	-0.18	-1.1	-1.15	0	0	0	0	0	0
3/12/2025 13:29	67303	WYOM_T2	0	2	2	0	0.2	0.2	0.33	0.29	0	0	0	0	0	0
3/12/2025 13:29	67401	WAKE_T2	4	5	1	0.38	0.2	-0.18	0	0	0	0	0	0	0	0
3/12/2025 13:29	64101	REFR_T1	9	56	47	0.53	0.29	-0.24	-0.15	-0.15	0	0	0	0	0	0
3/12/2025 13:29	67402	WAKE_T2	0	0	0	0	0	0	0.99	0.92	0	0	0	0	0	0
3/12/2025 13:30	67401	WAKE_T2	3	6	3	0.23	0.43	0.2	-1.1	-1.15	0	0	0	0	0	0
3/12/2025 13:32	18001	ZION_T1	6	9	3	3.62	2.6	-1.02	0	0	0	0	0	0	0	0
3/12/2025 13:34	44802	EDAN_T2	0	0	0	0	0	0	-1.82	-1.8	0	0	0	0	0	0
3/12/2025 13:34	44801	EDAN_T2	4	4	0	0.58	0.5	-0.08	-0.42	-0.42	0	0	0	0	0	0
3/12/2025 13:35	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 13:35	67605	WARW_T1	56	69	13	0.8	0.77	-0.03	-2.13	-2.18	0	0	0	0	0	0
3/12/2025 13:35	44801	EDAN_T2	4	4	0	0.58	0.5	-0.08	-0.42	-0.42	0	0	0	0	0	0
3/12/2025 13:35	67603	WARW_T1	3	5	2	0.63	0.58	-0.05	0	0	0	0	0	0	0	0
3/12/2025 13:36	16102	BING_T2	5	6	1	0.64	0.7	0.06	0	0	0	0	0	0	0	0
3/12/2025 13:36	67605	WARW_T1	56	69	13	0.8	0.77	-0.03	0	0	0	0	0	0	0	0
3/12/2025 13:36	54502	ENOL_T2	2	4	2	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
3/12/2025 13:36	44802	EDAN_T2	0	0	0	0	0	0	-0.9	-0.86	0	0	0	0	0	0
3/12/2025 13:36	16101	BING_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/12/2025 13:36	16103	BING_T2	1	1	0	0.8	0.7	-0.1	0	0	1	1	0	900	900	0
3/12/2025 13:36	54505	ENOL_T2	2	2	0	0.95	1.05	0.1	-1.43	-1.41	1	1	0	600	600	0
3/12/2025 13:36	44801	EDAN_T2	4	4	0	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
3/12/2025 13:36	54504	ENOL_T2	1	1	0	0.5	0.5	0	-0.49	-0.48	0	0	0	0	0	0
3/12/2025 13:36	67603	WARW_T1	3	5	2	0.63	0.58	-0.05	0	0	0	0	0	0	0	0
3/12/2025 13:36	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 13:37	67605	WARW_T1	56	69	13	0.8	0.77	-0.03	-1.09	-1.07	0	0	0	0	0	0
3/12/2025 13:37	44802	EDAN_T2	0	0	0	0	0	0	-0.9	-0.86	0	0	0	0	0	0
3/12/2025 13:37	54504	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/12/2025 13:37	44801	EDAN_T2	4	4	0	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
3/12/2025 13:37	67603	WARW_T1	3	5	2	0.63	0.58	-0.05	0	0	0	0	0	0	0	0
3/12/2025 13:37	54505	ENOL_T2	2	2	0	0.95	1.05	0.1	-1.41	-1.42	1	1	0	600	600	0
3/12/2025 13:37	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 13:37	54502	ENOL_T2	2	4	2	0.7	0.48	-0.22	0	0	0	0	0	0	0	0
3/12/2025 13:38	44801	EDAN_T2	4	4	0	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
3/12/2025 13:38	44802	EDAN_T2	0	0	0	0	0	0	-0.9	-0.86	0	0	0	0	0	0
3/12/2025 13:38	67605	WARW_T1	56	69	13	0.8	0.77	-0.03	-1.09	-1.07	0	0	0	0	0	0
3/12/2025 13:38	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 13:38	67603	WARW_T1	3	5	2	0.63	0.58	-0.05	0	0	0	0	0	0	0	0
3/12/2025 13:39	52403	GRPA_T2	33	146	113	0.88	0.77	-0.11	0	0	0	0	0	0	0	0
3/12/2025 13:39	52402	GRPA_T2	13	10	-3	0.57	0.65	0.08	0	0	0	0	0	0	0	0
3/12/2025 13:39	53501	EVIL_T2	2	3	1	0.45	0.9	0.45	-0.28	-0.39	1	1	0	600	600	0
3/12/2025 13:39	52401	GRPA_T2	3	5	2	0.53	0.48	-0.05	0	0	0	0	0	0	0	0
3/12/2025 13:40	67603	WARW_T1	3	5	2	0.63	0.58	-0.05	0	0	0	0	0	0	0	0
3/12/2025 13:40	44801	EDAN_T2	4	4	0	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
3/12/2025 13:40	44802	EDAN_T2	0	0	0	0	0	0	-0.9	-0.86	0	0	0	0	0	0
3/12/2025 13:40	67604	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 13:40	67605	WARW_T1	56	69	13	0.8	0.77	-0.03	0	0	0	0	0	0	0	0
3/12/2025 13:41	65903	SAKR_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/12/2025 13:41	65904	SAKR_T2	7	16	9	0.41	0.33	-0.08	-1.77	-1.78	2	2	0	900	900	0
3/12/2025 13:41	65901	SAKR_T2	1	2	1	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
3/12/2025 13:41	53501	EVIL_T2	2	3	1	0.45	0.9	0.45	-0.28	-0.39	1	1	0	600	600	0
3/12/2025 13:42	65904	SAKR_T2	7	16	9	0.41	0.33	-0.08	0	0	0	0	0	0	0	0
3/12/2025 13:42	65903	SAKR_T2	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/12/2025 13:42	41602	CLEV_T1	4	5	1	0.38	0.54	0.16	0	0	0	0	0	0	0	0
3/12/2025 13:42	65901	SAKR_T2	1	2	1	0.7	0.65	-0.05	-1.31	-1.26	1	1	0	900	900	0
3/12/2025 13:42	41601	CLEV_T1	1	3	2	0.6	0.6	0	0	0	0	0	0	0	0	0
3/12/2025 13:45	51101	CARL_T1	1	2	1	5.8	2.95	-2.85	0	0	0	0	0	0	0	0
3/12/2025 13:45	51108	CARL_T1	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/12/2025 13:45	51102	CARL_T1	7	9	2	0.94	0.81	-0.13	0	0	0	0	0	0	0	0
3/12/2025 13:45	51109	CARL_T1	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 13:47	53101	WTWN_T1	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
3/12/2025 13:47	43402	BENT_T1	47	4	-43	0.21	0.83	0.62	-0.82	-0.82	1	1	0	900	900	0
3/12/2025 13:47	53102	WTWN_T1	0	0	0	0	0	0	-1.73	-1.77	0	0	0	0	0	0
3/12/2025 13:48	53101	WTWN_T1	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
3/12/2025 13:48	46506	LOHA_T1	3	5	2	5.2	3.36	-1.84	-0.12	-0.06	0	0	0	0	0	0
3/12/2025 13:48	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 13:48	65904	SAKR_T2	15	14	-1	0.33	0.35	0.02	0	0	0	0	0	0	0	0
3/12/2025 13:48	65903	SAKR_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/12/2025 13:48	46504	LOHA_T1	13	49	36	0.16	0.51	0.35	0	0	0	0	0	0	0	0
3/12/2025 13:48	65901	SAKR_T2	2	2	0	0.6	0.65	0.05	-1.31	-1.26	1	1	0	900	900	0
3/12/2025 13:49	53101	WTWN_T1	0	4	4	0	0.4	0.4	0	0	0	0	0	0	0	0
3/12/2025 13:49	46506	LOHA_T1	3	5	2	5.2	3.36	-1.84	-0.24	-0.12	0	0	0	0	0	0
3/12/2025 13:49	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 13:49	46504	LOHA_T1	13	49	36	0.16	0.51	0.35	0	0	0	0	0	0	0	0
3/12/2025 13:49	51802	EBEN_T2	0	0	0	0	0	0	-0.01	-0.01	1	1	0	900	900	0
3/12/2025 13:50	45501	DERR_T2	6	6	0	0.38	0.42	0.04	0	0	0	0	0	0	0	0
3/12/2025 13:50	45502	DERR_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
3/12/2025 13:50	44802	EDAN_T2	0	0	0	0	0	0	-1.8	-1.72	0	0	0	0	0	0
3/12/2025 13:50	42701	AUGU_T1	5	5	0	0.46	0.5	0.04	0	0	2	2	0	1800	1800	0
3/12/2025 13:50	44801	EDAN_T2	3	4	1	0.63	0.35	-0.28	0	0	0	0	0	0	0	0
3/12/2025 13:51	46504	LOHA_T1	13	49	36	0.16	0.51	0.35	0	0	0	0	0	0	0	0
3/12/2025 13:51	51901	COPA_T1	3	3	0	0.37	0.43	0.06	0	0	0	0	0	0	0	0
3/12/2025 13:51	51904	COPA_T1	8	10	2	1.35	1.17	-0.18	0	0	0	0	0	0	0	0
3/12/2025 13:51	51906	COPA_T1	1	1	0	0.2	0.2	0	-0.44	-0.47	1	1	0	900	900	0
3/12/2025 13:51	46506	LOHA_T1	3	5	2	5.2	3.36	-1.84	-0.06	-0.13	0	0	0	0	0	0
3/12/2025 13:51	51903	COPA_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/12/2025 13:52	54502	ENOL_T2	4	5	1	0.45	0.42	-0.03	0	0	0	0	0	0	0	0
3/12/2025 13:52	61502	EPET_T1	3	3	0	0.37	0.4	0.03	-1.1	-1.1	0	0	0	0	0	0
3/12/2025 13:52	11402	FARM_T1	10	9	-1	0.59	0.51	-0.08	0	0	0	0	0	0	0	0
3/12/2025 13:52	10206	ALLE_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/12/2025 13:52	54504	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/12/2025 13:52	12601	MACA_T1	1	2	1	2	1.5	-0.5	0	0	0	0	0	0	0	0
3/12/2025 13:52	54505	ENOL_T2	2	3	1	1	0.77	-0.23	0	0	0	0	0	0	0	0
3/12/2025 13:52	12605	MACA_T1	4	4	0	0.48	0.5	0.02	0	0	0	0	0	0	0	0
3/12/2025 13:52	12704	MACU_T1	0	0	0	0	0	0	-1.21	-1.22	0	0	0	0	0	0
3/12/2025 13:52	44201	POIN_T1	0	0	0	0	0	0	-2.26	-2.25	1	1	0	1200	1200	0
3/12/2025 13:52	46506	LOHA_T1	3	5	2	5.2	3.36	-1.84	0	0	0	0	0	0	0	0
3/12/2025 13:52	61505	EPET_T1	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/12/2025 13:52	12606	MACA_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/12/2025 13:52	14802	TREI_T2	48	39	-9	0.3	0.32	0.02	0.31	0.28	0	0	0	0	0	0
3/12/2025 13:52	11405	FARM_T1	176	252	76	0.26	0.27	0.01	0	0	0	0	0	0	0	0
3/12/2025 13:52	14801	TREI_T2	164	146	-18	0.32	0.35	0.03	0	0	0	0	0	0	0	0
3/12/2025 13:52	46504	LOHA_T1	13	49	36	0.16	0.51	0.35	0	0	0	0	0	0	0	0
3/12/2025 13:52	11301	EMMA_T1	2	3	1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/12/2025 13:52	11401	FARM_T1	2	2	0	0.35	0.15	-0.2	0	0	0	0	0	0	0	0
3/12/2025 13:52	43402	BENT_T1	47	4	-43	0.21	0.83	0.62	-0.82	-0.93	1	1	0	900	900	0
3/12/2025 13:52	12602	MACA_T1	41	46	5	0.22	0.19	-0.03	0	0	0	0	0	0	0	0
3/12/2025 13:52	12604	MACA_T1	6	8	2	0.93	0.66	-0.27	0	0	0	0	0	0	0	0
3/12/2025 13:52	10705	CATA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/12/2025 13:52	11407	FARM_T1	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/12/2025 13:52	11302	EMMA_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
3/12/2025 13:52	47104	MARL_T1	0	0	0	0	0	0	-0.91	-0.9	0	0	0	0	0	0
3/12/2025 13:52	10203	ALLE_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/12/2025 13:52	10707	CATA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/12/2025 13:52	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 13:52	11404	FARM_T1	7	5	-2	0.53	0.42	-0.11	0	0	0	0	0	0	0	0
3/12/2025 13:52	10703	CATA_T2	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/12/2025 13:52	10102	ALLE_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
3/12/2025 13:52	11303	EMMA_T1	8	8	0	0.73	0.76	0.03	0	0	0	0	0	0	0	0
3/12/2025 13:52	54501	ENOL_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
3/12/2025 13:52	10702	CATA_T2	2	2	0	0.25	0.5	0.25	-0.87	-0.89	0	0	0	0	0	0
3/12/2025 13:53	47901	HRDG_T1	0	0	0	0	0	0	1.8	1.88	0	0	0	0	0	0
3/12/2025 13:53	61803	EELI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/12/2025 13:53	61801	EELI_T2	8	11	3	0.38	0.47	0.09	-0.41	-0.4	0	0	0	0	0	0
3/12/2025 13:53	21504	CEAV_T1	0	0	0	0	0	0	1.3	1.26	0	0	0	0	0	0
3/12/2025 13:54	43301	WATS_T2	1	34	33	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/12/2025 13:54	43304	WATS_T2	1	0	-1	0.1	0	-0.1	0.47	0.62	0	0	0	0	0	0
3/12/2025 13:54	13302	ORVI_T2	3	3	0	0.5	0.93	0.43	1.2	1.25	0	0	0	0	0	0
3/12/2025 13:54	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 13:54	10203	ALLE_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/12/2025 13:54	10206	ALLE_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/12/2025 13:54	47103	MARL_T2	4	5	1	0.43	0.32	-0.11	-0.55	-0.55	0	0	0	0	0	0
3/12/2025 13:54	43302	WATS_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 13:54	10102	ALLE_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
3/12/2025 13:55	44701	MUNC_T2	0	1	1	0	0.5	0.5	-1.16	-1.11	0	0	0	0	0	0
3/12/2025 13:55	41305	FISH_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
3/12/2025 13:55	54502	ENOL_T2	4	5	1	0.45	0.42	-0.03	0	0	0	0	0	0	0	0
3/12/2025 13:55	41301	FISH_T1	7	6	-1	1.41	1.63	0.22	-0.54	-0.52	0	0	0	0	0	0
3/12/2025 13:55	54501	ENOL_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
3/12/2025 13:55	54504	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/12/2025 13:55	28102	TWLA_T2	5	9	4	0.34	0.27	-0.07	0.16	0.15	0	0	0	0	0	0
3/12/2025 13:55	64101	REFR_T1	11	13	2	0.64	0.51	-0.13	-0.14	-0.15	0	0	0	0	0	0
3/12/2025 13:55	44703	MUNC_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 13:55	54505	ENOL_T2	2	3	1	1	0.77	-0.23	0	0	0	0	0	0	0	0
3/12/2025 13:55	41001	LAUR_T2	88	89	1	0.75	0.92	0.17	0	0	0	0	0	0	0	0
3/12/2025 13:55	41002	LAUR_T2	59	62	3	0.68	0.78	0.1	0	0	0	0	0	0	0	0
3/12/2025 13:56	15204	SFAR_T2	3	3	0	0.57	0.87	0.3	0	0	0	0	0	0	0	0
3/12/2025 13:56	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 13:56	10102	ALLE_T2	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
3/12/2025 13:56	10206	ALLE_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/12/2025 13:56	15203	SFAR_T2	13	18	5	0.29	0.31	0.02	-2.8	-2.82	0	0	0	0	0	0
3/12/2025 13:56	10203	ALLE_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/12/2025 13:57	41301	FISH_T1	7	6	-1	1.41	1.63	0.22	-0.27	-0.26	0	0	0	0	0	0
3/12/2025 13:57	66402	ROBE_T1	102	148	46	0.26	0.57	0.31	0	0	0	0	0	0	0	0
3/12/2025 13:57	41305	FISH_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
3/12/2025 13:57	64502	LAVI_T1	2	7	5	0.15	0.24	0.09	0	0	0	0	0	0	0	0
3/12/2025 13:57	66401	ROBE_T1	275	331	56	0.29	0.65	0.36	0	0	1	1	0	600	600	0
3/12/2025 13:57	64503	LAVI_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/12/2025 13:57	45403	WBLO_T1	0	0	0	0	0	0	0.12	-0.22	3	3	0	3600	3600	0
3/12/2025 13:57	64501	LAVI_T1	14	91	77	0.35	0.27	-0.08	-1.74	-1.83	0	0	0	0	0	0
3/12/2025 13:57	43202	MVIL_T2	213	211	-2	1.16	1.3	0.14	0	0	0	0	0	0	0	0
3/12/2025 13:57	44201	POIN_T1	0	0	0	0	0	0	-6.79	-6.76	3	3	0	3600	3600	0
3/12/2025 13:57	43201	MVIL_T2	6	8	2	0.5	0.5	0	-0.38	-0.43	0	0	0	0	0	0
3/12/2025 13:58	44202	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 13:58	64501	LAVI_T1	14	91	77	0.35	0.27	-0.08	-1.74	-1.83	0	0	0	0	0	0
3/12/2025 13:58	64502	LAVI_T1	2	7	5	0.15	0.24	0.09	0	0	0	0	0	0	0	0
3/12/2025 13:58	51802	EBEN_T2	0	0	0	0	0	0	-0.01	-0.05	1	1	0	900	900	0
3/12/2025 13:58	44201	POIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 13:58	66401	ROBE_T1	275	331	56	0.29	0.65	0.36	0	0	0	0	0	0	0	0
3/12/2025 13:58	66402	ROBE_T1	102	148	46	0.26	0.57	0.31	0	0	2	2	0	1500	1500	0
3/12/2025 13:58	64503	LAVI_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/12/2025 13:59	44201	POIN_T1	0	0	0	0	0	0	-4.53	-4.51	2	2	0	2400	2400	0
3/12/2025 13:59	67401	WAKE_T2	4	6	2	0.18	0.48	0.3	-1.18	-1.16	0	0	0	0	0	0
3/12/2025 13:59	44202	POIN_T2	0	0	0	0	0	0	-1.02	-1.07	2	2	0	2400	2400	0
3/12/2025 14:00	44202	POIN_T2	0	0	0	0	0	0	-1.53	-1.6	3	3	0	3600	3600	0
3/12/2025 14:00	44201	POIN_T1	0	0	0	0	0	0	-4.53	-4.51	2	2	0	2400	2400	0
3/12/2025 14:00	15203	SFAR_T2	15	11	-4	0.31	0.43	0.12	-1.4	-1.41	0	0	0	0	0	0
3/12/2025 14:00	15201	SFAR_T1	0	0	0	0	0	0	-0.6	-0.66	2	2	0	1800	1800	0
3/12/2025 14:00	43202	MVIL_T2	203	231	28	1.12	1.23	0.11	0	0	0	0	0	0	0	0
3/12/2025 14:00	43201	MVIL_T2	7	7	0	0.53	0.47	-0.06	-0.38	-0.43	0	0	0	0	0	0
3/12/2025 14:00	15204	SFAR_T2	3	3	0	0.87	0.37	-0.5	0	0	0	0	0	0	0	0
3/12/2025 14:01	66402	ROBE_T1	120	152	32	0.35	0.66	0.31	0	0	0	0	0	0	0	0
3/12/2025 14:01	66401	ROBE_T1	296	333	37	0.4	0.72	0.32	0	0	1	1	0	600	600	0
3/12/2025 14:01	44202	POIN_T2	0	0	0	0	0	0	-1.02	-1.07	2	2	0	2400	2400	0
3/12/2025 14:01	44201	POIN_T1	0	0	0	0	0	0	-9.06	-9.02	4	4	0	4800	4800	0
3/12/2025 14:02	42701	AUGU_T1	5	2	-3	0.5	1.1	0.6	0	0	0	0	0	0	0	0
3/12/2025 14:02	20401	ASHF_T2	11	15	4	0.45	0.48	0.03	0	0	0	0	0	0	0	0
3/12/2025 14:02	44201	POIN_T1	0	0	0	0	0	0	-2.26	-2.25	1	1	0	1200	1200	0
3/12/2025 14:02	20403	ASHF_T2	197	231	34	0.36	0.38	0.02	-0.01	-0.04	0	0	0	0	0	0
3/12/2025 14:02	20402	ASHF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/12/2025 14:03	42701	AUGU_T1	5	2	-3	0.5	1.1	0.6	0	0	2	2	0	1800	1800	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/12/2025 14:03	20401	ASHF_T2	11	15	4	0.45	0.48	0.03	0	0	0	0	0	0	0	0
3/12/2025 14:03	20402	ASHF_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/12/2025 14:03	20403	ASHF_T2	197	231	34	0.36	0.38	0.02	-0.01	-0.04	0	0	0	0	0	0
3/12/2025 14:03	45402	WBLO_T2	3	4	1	0.7	0.78	0.08	-0.79	-0.83	0	0	0	0	0	0
3/12/2025 14:05	23901	EFMO_T2	1	2	1	0.3	0.3	0	-0.35	-0.36	0	0	0	0	0	0
3/12/2025 14:06	61704	ELIZ_T2	7	9	2	0.39	0.54	0.15	0	0	0	0	0	0	0	0
3/12/2025 14:06	23901	EFMO_T2	1	2	1	0.3	0.3	0	-0.35	-0.36	0	0	0	0	0	0
3/12/2025 14:06	61702	ELIZ_T2	5	6	1	1.02	0.8	-0.22	-0.72	-0.73	1	1	0	300	300	0
3/12/2025 14:06	54502	ENOL_T2	2	9	7	0.8	0.4	-0.4	-2.15	-2.14	1	1	0	600	600	0
3/12/2025 14:06	54505	ENOL_T2	2	4	2	1.05	0.75	-0.3	0	0	0	0	0	0	0	0
3/12/2025 14:06	54504	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/12/2025 14:07	54505	ENOL_T2	2	4	2	1.05	0.75	-0.3	0	0	0	0	0	0	0	0
3/12/2025 14:07	54502	ENOL_T2	2	9	7	0.8	0.4	-0.4	-2.14	-2.17	1	1	0	600	600	0
3/12/2025 14:07	54504	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/12/2025 14:08	54502	ENOL_T2	2	9	7	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
3/12/2025 14:08	54505	ENOL_T2	2	4	2	1.05	0.75	-0.3	0	0	0	0	0	0	0	0
3/12/2025 14:08	54501	ENOL_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/12/2025 14:08	46502	LOHA_T1	0	0	0	0	0	0	-1.39	-1.38	0	0	0	0	0	0
3/12/2025 14:08	46503	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 14:08	54504	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/12/2025 14:08	46504	LOHA_T1	1	50	49	0.8	0.51	-0.29	0	0	0	0	0	0	0	0
3/12/2025 14:08	46506	LOHA_T1	5	5	0	3.3	3.24	-0.06	0	0	0	0	0	0	0	0
3/12/2025 14:09	47403	PENS_T1	1	1	0	1.8	2.4	0.6	0	0	0	0	0	0	0	0
3/12/2025 14:09	47402	PENS_T1	1	2	1	1.2	0.65	-0.55	0	0	0	0	0	0	0	0
3/12/2025 14:09	47401	PENS_T1	5	47	42	1.18	0.41	-0.77	0.74	0.95	0	0	0	0	0	0
3/12/2025 14:10	58402	MORO_T1	0	4	4	0	0.23	0.23	-0.08	-0.04	2	2	0	1500	1500	0
3/12/2025 14:10	54505	ENOL_T2	2	4	2	1.05	0.75	-0.3	0	0	0	0	0	0	0	0
3/12/2025 14:10	67101	SPRI_T2	1	1	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
3/12/2025 14:10	54502	ENOL_T2	2	9	7	0.8	0.4	-0.4	-2.14	-2.17	1	1	0	600	600	0
3/12/2025 14:10	58401	MORO_T1	14	16	2	0.35	0.54	0.19	0	0	0	0	0	0	0	0
3/12/2025 14:10	54504	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/12/2025 14:10	67106	SPRI_T2	5	7	2	0.26	0.29	0.03	-1.32	-1.3	1	1	0	900	900	0
3/12/2025 14:10	67102	SPRI_T2	8	18	10	0.26	0.26	0	0	0	0	0	0	0	0	0
3/12/2025 14:11	54504	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/12/2025 14:11	54502	ENOL_T2	2	9	7	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
3/12/2025 14:11	54505	ENOL_T2	2	4	2	1.05	0.75	-0.3	0	0	0	0	0	0	0	0
3/12/2025 14:11	54501	ENOL_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/12/2025 14:12	66402	ROBE_T1	120	152	32	0.35	0.66	0.31	0	0	0	0	0	0	0	0
3/12/2025 14:12	66401	ROBE_T1	296	333	37	0.4	0.72	0.32	0	0	1	1	0	600	600	0
3/12/2025 14:13	64501	LAVI_T1	21	113	92	0.27	0.34	0.07	0	0	0	0	0	0	0	0
3/12/2025 14:13	64502	LAVI_T1	2	18	16	0.35	0.24	-0.11	0	0	0	0	0	0	0	0
3/12/2025 14:13	64503	LAVI_T1	1	1	0	0.5	0.9	0.4	2.09	1.64	3	3	0	3600	3600	0
3/12/2025 14:13	58401	MORO_T1	14	16	2	0.35	0.54	0.19	-1.21	-1.17	1	1	0	600	600	0
3/12/2025 14:13	58402	MORO_T1	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
3/12/2025 14:15	67101	SPRI_T2	1	1	0	2.4	1.7	-0.7	0	0	0	0	0	0	0	0
3/12/2025 14:15	64501	LAVI_T1	91	112	21	0.27	0.33	0.06	0	0	0	0	0	0	0	0
3/12/2025 14:15	64503	LAVI_T1	1	1	0	0.8	0.9	0.1	0.7	0.55	1	1	0	1200	1200	0
3/12/2025 14:15	64502	LAVI_T1	7	18	11	0.24	0.24	0	0	0	0	0	0	0	0	0
3/12/2025 14:15	67106	SPRI_T2	7	0	-7	0.29	0	-0.29	-2.63	-2.6	2	2	0	1800	1800	0
3/12/2025 14:15	67102	SPRI_T2	18	0	-18	0.26	0	-0.26	0	0	0	0	0	0	0	0
3/12/2025 14:16	57205	ROSS_T1	10	6	-4	0.83	0.87	0.04	0	0	0	0	0	0	0	0
3/12/2025 14:16	57201	ROSS_T1	22	13	-9	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
3/12/2025 14:16	57203	ROSS_T1	8	5	-3	0.39	0.32	-0.07	0.63	0.58	0	0	0	0	0	0
3/12/2025 14:17	57203	ROSS_T1	8	5	-3	0.39	0.32	-0.07	0.32	0.29	0	0	0	0	0	0
3/12/2025 14:17	57205	ROSS_T1	10	6	-4	0.83	0.87	0.04	0	0	0	0	0	0	0	0
3/12/2025 14:17	57201	ROSS_T1	22	13	-9	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
3/12/2025 14:18	67901	WNHO_T2	2	2	0	0.55	1	0.45	0.41	0.37	1	1	0	900	900	0
3/12/2025 14:18	51303	WIND_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/12/2025 14:18	51301	WIND_T1	8	9	1	0.51	0.47	-0.04	0	0	0	0	0	0	0	0
3/12/2025 14:18	51306	WIND_T2	3	3	0	0.23	0.27	0.04	0	0	0	0	0	0	0	0
3/12/2025 14:18	24104	EHAZ_T1	1	2	1	0.1	0.3	0.2	-2.24	-2.21	1	1	0	1200	1200	0
3/12/2025 14:18	24101	EHAZ_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/12/2025 14:18	51302	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 14:18	24105	EHAZ_T1	4	4	0	6.1	6.18	0.08	0	0	0	0	0	0	0	0
3/12/2025 14:18	51305	WIND_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/12/2025 14:18	51304	WIND_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
3/12/2025 14:19	43402	BENT_T1	4	26	22	0.83	0.24	-0.59	-0.93	-0.95	1	1	0	900	900	0
3/12/2025 14:19	57201	ROSS_T1	22	13	-9	0.3	0.26	-0.04	0	0	0	0	0	0	0	0
3/12/2025 14:19	57205	ROSS_T1	10	6	-4	0.83	0.87	0.04	0	0	0	0	0	0	0	0
3/12/2025 14:19	51301	WIND_T1	8	9	1	0.51	0.47	-0.04	0	0	0	0	0	0	0	0
3/12/2025 14:19	57203	ROSS_T1	8	5	-3	0.39	0.32	-0.07	0.63	0.58	0	0	0	0	0	0
3/12/2025 14:19	51303	WIND_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/12/2025 14:19	51305	WIND_T1	1	1	0	0.4	0.8	0.4	0.22	0.19	0	0	0	0	0	0
3/12/2025 14:20	51305	WIND_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/12/2025 14:20	51303	WIND_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/12/2025 14:20	51304	WIND_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
3/12/2025 14:20	51306	WIND_T2	3	3	0	0.23	0.27	0.04	0	0	0	0	0	0	0	0
3/12/2025 14:20	51301	WIND_T1	8	9	1	0.51	0.47	-0.04	0	0	0	0	0	0	0	0
3/12/2025 14:20	51302	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 14:21	51306	WIND_T2	3	3	0	0.23	0.27	0.04	0.03	0.08	0	0	0	0	0	0
3/12/2025 14:21	67502	WEWI_T2	232	357	125	0.31	0.35	0.04	0	0	0	0	0	0	0	0
3/12/2025 14:21	67503	WEWI_T2	8	12	4	0.34	0.38	0.04	0	0	0	0	0	0	0	0
3/12/2025 14:21	51302	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 14:21	51304	WIND_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
3/12/2025 14:22	51301	WIND_T1	8	9	1	0.51	0.47	-0.04	0	0	0	0	0	0	0	0
3/12/2025 14:22	64702	LITI_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
3/12/2025 14:22	51305	WIND_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/12/2025 14:22	51303	WIND_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/12/2025 14:24	64702	LITI_T2	0	0	0	0	0	0	-0.72	-0.73	0	0	0	0	0	0
3/12/2025 14:25	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 14:26	58401	MORO_T1	14	16	2	0.44	0.55	0.11	-1.17	-1.15	1	1	0	600	600	0
3/12/2025 14:26	23203	HIRU_T2	0	0	0	0	0	0	0.06	0.15	0	0	0	0	0	0
3/12/2025 14:26	23201	HIRU_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
3/12/2025 14:26	58402	MORO_T1	3	3	0	0.1	0.27	0.17	0	0	0	0	0	0	0	0
3/12/2025 14:27	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 14:27	15602	NSTR_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/12/2025 14:27	15603	NSTR_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/12/2025 14:27	15601	NSTR_T2	3	3	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/12/2025 14:28	58401	MORO_T1	14	16	2	0.44	0.55	0.11	-1.17	-1.15	1	1	0	600	600	0
3/12/2025 14:28	58402	MORO_T1	3	3	0	0.1	0.27	0.17	0	0	0	0	0	0	0	0
3/12/2025 14:30	57201	ROSS_T1	12	7	-5	0.28	0.33	0.05	0	0	0	0	0	0	0	0
3/12/2025 14:30	57203	ROSS_T1	4	5	1	0.28	0.3	0.02	0	0	0	0	0	0	0	0
3/12/2025 14:30	57205	ROSS_T1	6	5	-1	0.83	1.04	0.21	0	0	0	0	0	0	0	0
3/12/2025 14:34	46002	BERW_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/12/2025 14:34	46004	BERW_T2	1	2	1	1	0.6	-0.4	-0.42	-0.45	0	0	0	0	0	0
3/12/2025 14:38	11205	ELHE_T1	0	0	0	0	0	0	-0.82	-0.83	1	1	0	1200	1200	0
3/12/2025 14:42	67402	WAKE_T2	0	11	11	0	0.41	0.41	0.15	0.14	0	0	0	0	0	0
3/12/2025 14:42	67401	WAKE_T2	10	85	75	0.62	0.33	-0.29	-1.19	-1.18	0	0	0	0	0	0
3/12/2025 14:43	67401	WAKE_T2	10	85	75	0.62	0.33	-0.29	0	0	0	0	0	0	0	0
3/12/2025 14:43	67402	WAKE_T2	0	11	11	0	0.41	0.41	0	0	0	0	0	0	0	0
3/12/2025 14:43	64101	REFR_T1	10	14	4	0.42	0.61	0.19	-0.13	-0.13	0	0	0	0	0	0
3/12/2025 14:44	16103	BING_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
3/12/2025 14:44	16101	BING_T2	0	3	3	0	0.5	0.5	0.21	0.22	0	0	0	0	0	0
3/12/2025 14:44	16102	BING_T2	7	5	-2	0.84	0.86	0.02	0	0	0	0	0	0	0	0
3/12/2025 14:44	67402	WAKE_T2	0	11	11	0	0.41	0.41	0.15	0.14	0	0	0	0	0	0
3/12/2025 14:44	67401	WAKE_T2	10	85	75	0.62	0.33	-0.29	-1.19	-1.18	0	0	0	0	0	0
3/12/2025 14:45	67401	WAKE_T2	42	96	54	0.29	0.33	0.04	0	0	0	0	0	0	0	0
3/12/2025 14:45	67402	WAKE_T2	6	14	8	0.37	0.4	0.03	0	0	0	0	0	0	0	0
3/12/2025 14:46	44302	BEAV_T2	16	30	14	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
3/12/2025 14:46	44203	POIN_T2	0	0	0	0	0	0	-0.63	-0.7	2	2	0	2100	2100	0
3/12/2025 14:46	44301	BEAV_T2	11	12	1	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
3/12/2025 14:47	44301	BEAV_T2	11	12	1	0.34	0.33	-0.01	0.25	0.01	1	1	0	600	600	0
3/12/2025 14:47	44302	BEAV_T2	16	30	14	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
3/12/2025 14:48	44302	BEAV_T2	16	30	14	0.65	0.53	-0.12	0.27	0.28	0	0	0	0	0	0
3/12/2025 14:48	44301	BEAV_T2	11	12	1	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
3/12/2025 14:49	46002	BERW_T2	2	4	2	0.15	0.23	0.08	0	0	0	0	0	0	0	0
3/12/2025 14:49	46004	BERW_T2	1	2	1	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
3/12/2025 14:49	51304	WIND_T2	3	3	0	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
3/12/2025 14:49	44301	BEAV_T2	11	12	1	0.34	0.33	-0.01	0.25	0.01	1	1	0	600	600	0
3/12/2025 14:49	51306	WIND_T2	2	1	-1	0.25	0.2	-0.05	0.07	0.09	0	0	0	0	0	0
3/12/2025 14:49	44302	BEAV_T2	16	30	14	0.65	0.53	-0.12	0.27	0.28	0	0	0	0	0	0
3/12/2025 14:49	51302	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 14:50	44801	EDAN_T2	5	7	2	0.52	0.44	-0.08	0	0	0	0	0	0	0	0
3/12/2025 14:50	46001	BERW_T1	0	0	0	0	0	0	0.9	0.89	0	0	0	0	0	0
3/12/2025 14:51	51302	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 14:51	51304	WIND_T2	3	3	0	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
3/12/2025 14:51	51306	WIND_T2	2	1	-1	0.25	0.2	-0.05	0.07	0.09	0	0	0	0	0	0
3/12/2025 14:53	47201	FAXO_T2	0	0	0	0	0	0	-2.32	-2.34	1	1	0	1200	1200	0
3/12/2025 14:55	66504	SMAN_T2	5	9	4	0.34	0.47	0.13	0	0	0	0	0	0	0	0
3/12/2025 14:55	66502	SMAN_T2	9	7	-2	0.31	0.27	-0.04	0.06	0.15	0	0	0	0	0	0
3/12/2025 14:55	66501	SMAN_T2	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
3/12/2025 14:55	66503	SMAN_T2	2	2	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/12/2025 14:55	66505	SMAN_T2	4	3	-1	0.58	0.37	-0.21	0	0	0	0	0	0	0	0
3/12/2025 14:58	66503	SMAN_T2	2	2	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/12/2025 14:58	64101	REFR_T1	14	14	0	0.54	0.62	0.08	-0.13	-0.14	0	0	0	0	0	0
3/12/2025 14:58	66505	SMAN_T2	4	3	-1	0.58	0.37	-0.21	0	0	0	0	0	0	0	0
3/12/2025 14:58	66501	SMAN_T2	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
3/12/2025 14:58	66504	SMAN_T2	5	9	4	0.34	0.47	0.13	-0.57	-0.56	0	0	0	0	0	0
3/12/2025 14:58	66502	SMAN_T2	9	7	-2	0.31	0.27	-0.04	0	0	0	0	0	0	0	0
3/12/2025 14:59	66501	SMAN_T2	2	2	0	0.15	0.35	0.2	0	0	0	0	0	0	0	0
3/12/2025 14:59	66502	SMAN_T2	9	7	-2	0.31	0.27	-0.04	0	0	0	0	0	0	0	0
3/12/2025 14:59	66503	SMAN_T2	2	2	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/12/2025 14:59	66504	SMAN_T2	5	9	4	0.34	0.47	0.13	-1.72	-1.68	0	0	0	0	0	0
3/12/2025 14:59	66505	SMAN_T2	4	3	-1	0.58	0.37	-0.21	0	0	0	0	0	0	0	0
3/12/2025 15:00	15103	UPHA_T2	16	14	-2	0.45	0.52	0.07	0.57	0.58	0	0	0	0	0	0
3/12/2025 15:00	66504	SMAN_T2	6	12	6	0.38	0.42	0.04	-0.57	-0.56	0	0	0	0	0	0
3/12/2025 15:00	15101	UPHA_T1	2	2	0	1.55	1.25	-0.3	0.62	0.65	0	0	0	0	0	0
3/12/2025 15:00	15102	UPHA_T1	9	9	0	0.54	0.81	0.27	0	0	0	0	0	0	0	0
3/12/2025 15:00	66503	SMAN_T2	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
3/12/2025 15:00	66505	SMAN_T2	3	3	0	0.37	0.43	0.06	0	0	0	0	0	0	0	0
3/12/2025 15:00	66502	SMAN_T2	7	8	1	0.21	0.3	0.09	0	0	0	0	0	0	0	0
3/12/2025 15:00	66501	SMAN_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
3/12/2025 15:01	66504	SMAN_T2	6	12	6	0.38	0.42	0.04	-0.57	-0.56	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/12/2025 15:01	66503	SMAN_T2	2	2	0	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
3/12/2025 15:01	66501	SMAN_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
3/12/2025 15:01	66502	SMAN_T2	7	8	1	0.21	0.3	0.09	0	0	0	0	0	0	0	0
3/12/2025 15:01	66505	SMAN_T2	3	3	0	0.37	0.43	0.06	0	0	0	0	0	0	0	0
3/12/2025 15:04	46002	BERW_T2	1	5	4	0.4	0.22	-0.18	0	0	0	0	0	0	0	0
3/12/2025 15:04	63602	LETO_T1	96	55	-41	0.19	0.14	-0.05	-0.47	-0.47	0	0	0	0	0	0
3/12/2025 15:04	63601	LETO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/12/2025 15:04	46004	BERW_T2	2	2	0	0.6	0.8	0.2	-0.45	-0.52	0	0	0	0	0	0
3/12/2025 15:06	44802	EDAN_T2	0	0	0	0	0	0	-0.87	-0.93	0	0	0	0	0	0
3/12/2025 15:06	44502	HAMI_T2	3	2	-1	1.23	1.75	0.52	0	0	0	0	0	0	0	0
3/12/2025 15:06	44801	EDAN_T2	7	2	-5	0.44	0.5	0.06	0	0	0	0	0	0	0	0
3/12/2025 15:06	44505	HAMI_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
3/12/2025 15:07	44502	HAMI_T2	3	2	-1	1.23	1.75	0.52	0	0	0	0	0	0	0	0
3/12/2025 15:07	44505	HAMI_T2	0	0	0	0	0	0	0.44	0.44	0	0	0	0	0	0
3/12/2025 15:08	44502	HAMI_T2	3	2	-1	1.23	1.75	0.52	0	0	0	0	0	0	0	0
3/12/2025 15:08	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 15:09	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 15:09	54502	ENOL_T2	10	18	8	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
3/12/2025 15:09	54504	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/12/2025 15:09	54505	ENOL_T2	3	3	0	0.87	0.77	-0.1	-1.43	-1.42	1	1	0	600	600	0
3/12/2025 15:09	44502	HAMI_T2	3	2	-1	1.23	1.75	0.52	0	0	0	0	0	0	0	0
3/12/2025 15:09	54501	ENOL_T2	2	3	1	0.1	0.2	0.1	0.08	0.08	0	0	0	0	0	0
3/12/2025 15:10	54505	ENOL_T2	3	3	0	0.87	0.77	-0.1	-1.43	-1.42	1	1	0	600	600	0
3/12/2025 15:10	54502	ENOL_T2	10	18	8	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
3/12/2025 15:10	54504	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/12/2025 15:10	54501	ENOL_T2	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/12/2025 15:11	54502	ENOL_T2	10	18	8	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
3/12/2025 15:11	54501	ENOL_T2	2	3	1	0.1	0.2	0.1	0.04	0.04	0	0	0	0	0	0
3/12/2025 15:11	64203	KINZ_T1	0	0	0	0	0	0	1.13	0.95	1	1	0	600	600	0
3/12/2025 15:11	58401	MORO_T1	17	15	-2	0.41	0.49	0.08	-1.16	-1.14	1	1	0	600	600	0
3/12/2025 15:11	64204	KINZ_T1	68	77	9	1.4	1.82	0.42	0	0	0	0	0	0	0	0
3/12/2025 15:11	58402	MORO_T1	8	2	-6	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
3/12/2025 15:11	54505	ENOL_T2	3	3	0	0.87	0.77	-0.1	-1.43	-1.42	1	1	0	600	600	0
3/12/2025 15:11	64202	KINZ_T1	3	3	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/12/2025 15:11	54504	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/12/2025 15:12	15203	SFAR_T2	6	6	0	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
3/12/2025 15:12	54504	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/12/2025 15:12	54505	ENOL_T2	3	3	0	0.87	0.77	-0.1	-1.43	-1.42	1	1	0	600	600	0
3/12/2025 15:12	58401	MORO_T1	17	15	-2	0.41	0.49	0.08	-1.16	-1.14	1	1	0	600	600	0
3/12/2025 15:12	58402	MORO_T1	8	2	-6	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
3/12/2025 15:12	54502	ENOL_T2	10	18	8	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
3/12/2025 15:12	54501	ENOL_T2	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/12/2025 15:12	15204	SFAR_T2	0	0	0	0	0	0	-0.05	-0.06	0	0	0	0	0	0
3/12/2025 15:13	58402	MORO_T1	8	2	-6	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
3/12/2025 15:13	52404	GRPA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/12/2025 15:13	54504	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/12/2025 15:13	54501	ENOL_T2	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/12/2025 15:13	52401	GRPA_T2	35	14	-21	0.19	0.31	0.12	0	0	0	0	0	0	0	0
3/12/2025 15:13	54505	ENOL_T2	3	3	0	0.87	0.77	-0.1	-1.43	-1.42	1	1	0	600	600	0
3/12/2025 15:13	54502	ENOL_T2	10	18	8	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
3/12/2025 15:13	58401	MORO_T1	17	15	-2	0.41	0.49	0.08	-1.16	-1.14	1	1	0	600	600	0
3/12/2025 15:13	52402	GRPA_T2	11	99	88	0.46	0.48	0.02	0	0	0	0	0	0	0	0
3/12/2025 15:13	52403	GRPA_T2	103	133	30	0.48	0.56	0.08	-0.63	-0.57	0	0	0	0	0	0
3/12/2025 15:14	58402	MORO_T1	8	2	-6	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
3/12/2025 15:14	58401	MORO_T1	17	15	-2	0.41	0.49	0.08	-1.16	-1.14	1	1	0	600	600	0
3/12/2025 15:15	54505	ENOL_T2	3	3	0	0.73	0.43	-0.3	0	0	0	0	0	0	0	0
3/12/2025 15:15	54501	ENOL_T2	2	3	1	0.15	0.17	0.02	0.04	0.04	0	0	0	0	0	0
3/12/2025 15:15	54502	ENOL_T2	15	11	-4	0.24	0.29	0.05	0	0	0	0	0	0	0	0
3/12/2025 15:16	63601	LETO_T1	0	2	2	0	0.1	0.1	1.58	1.62	1	1	0	900	900	0
3/12/2025 15:16	63602	LETO_T1	18	58	40	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
3/12/2025 15:17	58201	NEWV_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/12/2025 15:21	45501	DERR_T2	1	3	2	0.5	0.17	-0.33	0.2	0.2	2	2	0	1800	1800	0
3/12/2025 15:26	41205	KENM_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
3/12/2025 15:26	41202	KENM_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/12/2025 15:29	52403	GRPA_T2	117	130	13	0.55	0.54	-0.01	-0.57	-0.51	0	0	0	0	0	0
3/12/2025 15:29	52401	GRPA_T2	13	10	-3	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
3/12/2025 15:29	52404	GRPA_T2	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/12/2025 15:29	52402	GRPA_T2	56	98	42	0.33	0.49	0.16	0	0	0	0	0	0	0	0
3/12/2025 15:32	15103	UPHA_T2	14	10	-4	0.52	0.56	0.04	0	0	0	0	0	0	0	0
3/12/2025 15:32	15104	UPHA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 15:34	58402	MORO_T1	2	1	-1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/12/2025 15:34	46203	DANV_T2	155	168	13	0.73	0.66	-0.07	0.08	0.06	0	0	0	0	0	0
3/12/2025 15:34	58401	MORO_T1	14	12	-2	0.46	0.43	-0.03	-1.14	-1.17	1	1	0	600	600	0
3/12/2025 15:35	46203	DANV_T2	155	168	13	0.73	0.66	-0.07	0.16	0.12	0	0	0	0	0	0
3/12/2025 15:36	41602	CLEV_T1	1	4	3	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
3/12/2025 15:36	41601	CLEV_T1	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/12/2025 15:38	15203	SFAR_T2	3	2	-1	0.27	0.3	0.03	-1.45	-1.43	0	0	0	0	0	0
3/12/2025 15:39	41602	CLEV_T1	1	4	3	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
3/12/2025 15:39	41601	CLEV_T1	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/12/2025 15:40	41602	CLEV_T1	1	4	3	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
3/12/2025 15:40	41601	CLEV_T1	2	1	-1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/12/2025 15:40	46203	DANV_T2	155	168	13	0.73	0.66	-0.07	0.06	0.12	0	0	0	0	0	0
3/12/2025 15:41	64101	REFR_T1	12	13	1	0.53	0.45	-0.08	-0.17	-0.14	0	0	0	0	0	0
3/12/2025 15:42	45801	HEGI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/12/2025 15:44	45801	HEGI_T1	1	0	-1	0.2	0	-0.2	-0.22	-0.24	1	1	0	900	900	0
3/12/2025 15:44	64101	REFR_T1	12	13	1	0.53	0.45	-0.08	-0.17	-0.14	0	0	0	0	0	0
3/12/2025 15:46	57205	ROSS_T1	5	5	0	0.78	0.78	0	0.08	0.11	0	0	0	0	0	0
3/12/2025 15:46	57201	ROSS_T1	2	3	1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
3/12/2025 15:46	57203	ROSS_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/12/2025 15:46	45801	HEGI_T1	0	0	0	0	0	0	-0.22	-0.24	1	1	0	900	900	0
3/12/2025 15:48	57205	ROSS_T1	5	5	0	0.78	0.78	0	0.08	0.11	0	0	0	0	0	0
3/12/2025 15:48	57203	ROSS_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/12/2025 15:48	57201	ROSS_T1	2	3	1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
3/12/2025 15:51	22002	BOHE_T1	0	0	0	0	0	0	0.12	0.02	0	0	0	0	0	0
3/12/2025 15:51	17803	GILB_T2	0	16	16	0	0.28	0.28	0	0	0	0	0	0	0	0
3/12/2025 15:51	17804	GILB_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
3/12/2025 15:51	42701	AUGU_T1	1	1	0	1.6	1.6	0	0	0	2	2	0	1800	1800	0
3/12/2025 15:51	17805	GILB_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/12/2025 15:53	61001	DONV_T1	1	0	-1	0.2	0	-0.2	-0.07	-0.12	0	0	0	0	0	0
3/12/2025 16:02	44302	BEAV_T2	7	4	-3	0.44	0.38	-0.06	0.25	0.28	0	0	0	0	0	0
3/12/2025 16:05	57205	ROSS_T1	5	4	-1	0.78	0.83	0.05	0	0	0	0	0	0	0	0
3/12/2025 16:05	57201	ROSS_T1	3	3	0	0.4	0.23	-0.17	-0.99	-0.66	0	0	0	0	0	0
3/12/2025 16:05	57203	ROSS_T1	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/12/2025 16:05	42701	AUGU_T1	1	1	0	1.6	1.4	-0.2	0	0	2	2	0	1800	1800	0
3/12/2025 16:11	43801	SWIL_T1	2	3	1	3.15	3.2	0.05	0	0	0	0	0	0	0	0
3/12/2025 16:11	43802	SWIL_T1	0	0	0	0	0	0	-0.29	-0.28	1	1	0	600	600	0
3/12/2025 16:11	64101	REFR_T1	5	11	6	0.7	0.36	-0.34	-0.15	-0.18	0	0	0	0	0	0
3/12/2025 16:12	43802	SWIL_T1	0	0	0	0	0	0	-0.29	-0.28	1	1	0	600	600	0
3/12/2025 16:12	43801	SWIL_T1	2	3	1	3.15	3.2	0.05	0	0	0	0	0	0	0	0
3/12/2025 16:30	57401	SPAN_T1	2	2	0	1.35	1.2	-0.15	0	0	0	0	0	0	0	0
3/12/2025 16:30	57403	SPAN_T1	5	3	-2	0.5	0.4	-0.1	-0.08	-0.06	0	0	0	0	0	0
3/12/2025 16:31	52102	MEIS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 16:31	52101	MEIS_T1	1	2	1	1.7	0.95	-0.75	0	0	0	0	0	0	0	0
3/12/2025 16:32	59402	RFLD_T2	1	1	0	0.4	0.7	0.3	-0.93	-0.94	1	1	0	450	450	0
3/12/2025 16:35	41502	FAIR_T2	0	0	0	0	0	0	-0.68	-0.68	0	0	0	0	0	0
3/12/2025 16:35	59402	RFLD_T2	1	1	0	0.4	0.7	0.3	-0.93	-0.94	1	1	0	450	450	0
3/12/2025 16:36	59402	RFLD_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/12/2025 16:40	22701	MINO_T1	0	0	0	0	0	0	-1.18	-1.18	1	1	0	600	600	0
3/12/2025 16:42	50624	CCTY_T2	2	2	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
3/12/2025 16:42	50625	CCTY_T2	7	7	0	3.06	3.03	-0.03	0	0	0	0	0	0	0	0
3/12/2025 16:42	50623	CCTY_T2	6	6	0	5.62	5.33	-0.29	0	0	0	0	0	0	0	0
3/12/2025 16:42	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 16:42	67001	STHI_T2	6	5	-1	0.25	0.14	-0.11	0	0	0	0	0	0	0	0
3/12/2025 16:42	67002	STHI_T2	10	9	-1	0.3	0.23	-0.07	1.56	1.53	0	0	0	0	0	0
3/12/2025 16:43	67001	STHI_T2	6	5	-1	0.25	0.14	-0.11	0.02	0.04	0	0	0	0	0	0
3/12/2025 16:43	67002	STHI_T2	10	9	-1	0.3	0.23	-0.07	1.56	1.53	0	0	0	0	0	0
3/12/2025 16:43	64101	REFR_T1	9	5	-4	0.31	0.38	0.07	-0.4	-0.45	0	0	0	0	0	0
3/12/2025 16:44	67001	STHI_T2	6	5	-1	0.25	0.14	-0.11	0	0	0	0	0	0	0	0
3/12/2025 16:44	15104	UPHA_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
3/12/2025 16:44	15103	UPHA_T2	5	5	0	0.56	0.5	-0.06	0	0	0	0	0	0	0	0
3/12/2025 16:44	67002	STHI_T2	10	9	-1	0.3	0.23	-0.07	1.04	1.02	0	0	0	0	0	0
3/12/2025 16:45	67001	STHI_T2	5	3	-2	0.12	0.17	0.05	0.04	0.08	0	0	0	0	0	0
3/12/2025 16:45	67002	STHI_T2	8	6	-2	0.23	0.23	0	1.56	1.53	0	0	0	0	0	0
3/12/2025 16:46	52403	GRPA_T2	15	9	-6	0.43	0.33	-0.1	-0.43	-0.5	0	0	0	0	0	0
3/12/2025 16:46	52402	GRPA_T2	4	4	0	0.9	0.95	0.05	0	0	0	0	0	0	0	0
3/12/2025 16:46	52404	GRPA_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/12/2025 16:47	67002	STHI_T2	8	6	-2	0.23	0.23	0	0.52	0.51	0	0	0	0	0	0
3/12/2025 16:47	67001	STHI_T2	5	3	-2	0.12	0.17	0.05	0	0	0	0	0	0	0	0
3/12/2025 16:54	42701	AUGU_T1	0	1	1	0	0.8	0.8	0	0	2	1	-1	1800	600	-1200
3/12/2025 16:55	41202	KENM_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
3/12/2025 16:56	41202	KENM_T2	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
3/12/2025 16:59	64101	REFR_T1	5	2	-3	0.34	0.75	0.41	-0.45	-0.48	0	0	0	0	0	0
3/12/2025 17:01	61302	EARL_T1	1	1	0	0.2	0.1	-0.1	0.39	0.31	1	1	0	1200	1200	0
3/12/2025 17:01	61306	EARL_T1	140	190	50	0.24	0.23	-0.01	0	0	0	0	0	0	0	0
3/12/2025 17:01	61303	EARL_T1	4	4	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
3/12/2025 17:01	61304	EARL_T1	583	638	55	0.29	0.37	0.08	0	0	0	0	0	0	0	0
3/12/2025 17:03	63602	LETO_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
3/12/2025 17:05	47203	FAXO_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
3/12/2025 17:06	63602	LETO_T1	0	0	0	0	0	0	-0.62	-0.58	0	0	0	0	0	0
3/12/2025 17:06	52001	LING_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
3/12/2025 17:09	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 17:09	58401	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/12/2025 17:09	42301	MOWR_T2	5	0	-5	0.24	0	-0.24	-0.36	-0.39	0	0	0	0	0	0
3/12/2025 17:09	42302	MOWR_T2	8	2	-6	0.2	0.2	0	0	0	0	0	0	0	0	0
3/12/2025 17:10	52002	LING_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
3/12/2025 17:10	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-1.14	-1.14	1	1	0	600	600	0
3/12/2025 17:10	52006	LING_T2	3	2	-1	1.43	1.2	-0.23	0	0	0	0	0	0	0	0
3/12/2025 17:10	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 17:10	52004	LING_T2	3	3	0	4.83	4.9	0.07	0.1	0.1	0	0	0	0	0	0
3/12/2025 17:11	42302	MOWR_T2	8	2	-6	0.2	0.2	0	0.52	0.52	0	0	0	0	0	0
3/12/2025 17:11	42301	MOWR_T2	5	0	-5	0.24	0	-0.24	0	0	0	0	0	0	0	0
3/12/2025 17:12	52006	LING_T2	3	2	-1	1.43	1.2	-0.23	0	0	0	0	0	0	0	0
3/12/2025 17:12	42302	MOWR_T2	8	2	-6	0.2	0.2	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/12/2025 17:12	52002	LING_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
3/12/2025 17:12	42301	MOWR_T2	5	0	-5	0.24	0	-0.24	-0.36	-0.39	0	0	0	0	0	0
3/12/2025 17:12	52004	LING_T2	3	3	0	4.83	4.9	0.07	0.03	0.03	0	0	0	0	0	0
3/12/2025 17:13	42301	MOWR_T2	5	0	-5	0.24	0	-0.24	-1.43	-1.55	0	0	0	0	0	0
3/12/2025 17:13	42302	MOWR_T2	8	2	-6	0.2	0.2	0	0.52	0.52	0	0	0	0	0	0
3/12/2025 17:14	42302	MOWR_T2	8	2	-6	0.2	0.2	0	0	0	0	0	0	0	0	0
3/12/2025 17:14	44203	POIN_T2	0	0	0	0	0	0	-0.96	-0.86	2	2	0	2100	2100	0
3/12/2025 17:14	42301	MOWR_T2	5	0	-5	0.24	0	-0.24	-1.08	-1.16	0	0	0	0	0	0
3/12/2025 17:14	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 17:14	58401	MORO_T1	1	0	-1	0.1	0	-0.1	-1.14	-1.14	1	1	0	600	600	0
3/12/2025 17:15	42302	MOWR_T2	2	0	-2	0.2	0	-0.2	0.52	0.52	0	0	0	0	0	0
3/12/2025 17:15	42301	MOWR_T2	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
3/12/2025 17:30	44203	POIN_T2	0	0	0	0	0	0	-0.86	-0.86	2	2	0	2100	2100	0
3/12/2025 17:38	50502	MECH_T1	2	5	3	1.3	0.66	-0.64	0	0	0	0	0	0	0	0
3/12/2025 17:38	50506	MECH_T1	3	1	-2	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/12/2025 17:38	50504	MECH_T1	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 17:38	50501	MECH_T1	5	4	-1	0.14	0.13	-0.01	-0.16	-0.26	0	0	0	0	0	0
3/12/2025 17:39	50502	MECH_T1	2	5	3	1.3	0.66	-0.64	0	0	0	0	0	0	0	0
3/12/2025 17:39	50501	MECH_T1	5	4	-1	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
3/12/2025 17:39	50505	MECH_T1	0	0	0	0	0	0	-0.92	-0.94	0	0	0	0	0	0
3/12/2025 17:39	50506	MECH_T1	3	1	-2	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/12/2025 17:39	50504	MECH_T1	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 17:41	50502	MECH_T1	2	5	3	1.3	0.66	-0.64	0	0	0	0	0	0	0	0
3/12/2025 17:41	50504	MECH_T1	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 17:41	50506	MECH_T1	3	1	-2	0.17	0.2	0.03	-0.07	-0.12	0	0	0	0	0	0
3/12/2025 17:41	50501	MECH_T1	5	4	-1	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
3/12/2025 17:42	22701	MINO_T1	0	0	0	0	0	0	-1.2	-1.2	1	1	0	600	600	0
3/12/2025 17:42	50504	MECH_T1	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 17:42	50505	MECH_T1	0	0	0	0	0	0	-0.92	-0.94	0	0	0	0	0	0
3/12/2025 17:42	50502	MECH_T1	2	5	3	1.3	0.66	-0.64	0	0	0	0	0	0	0	0
3/12/2025 17:42	50506	MECH_T1	3	1	-2	0.17	0.2	0.03	-0.14	-0.24	0	0	0	0	0	0
3/12/2025 17:42	50501	MECH_T1	5	4	-1	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
3/12/2025 17:43	50504	MECH_T1	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 17:43	50502	MECH_T1	2	5	3	1.3	0.66	-0.64	0	0	0	0	0	0	0	0
3/12/2025 17:43	50506	MECH_T1	3	1	-2	0.17	0.2	0.03	-0.07	-0.12	0	0	0	0	0	0
3/12/2025 17:43	50501	MECH_T1	5	4	-1	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
3/12/2025 17:44	50506	MECH_T1	3	1	-2	0.17	0.2	0.03	-0.07	-0.12	0	0	0	0	0	0
3/12/2025 17:44	41202	KENM_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/12/2025 17:44	50502	MECH_T1	2	5	3	1.3	0.66	-0.64	0	0	0	0	0	0	0	0
3/12/2025 17:44	50504	MECH_T1	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 17:44	41204	KENM_T2	0	0	0	0	0	0	-0.05	-0.03	0	0	0	0	0	0
3/12/2025 17:44	50501	MECH_T1	5	4	-1	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
3/12/2025 17:48	24902	WHHA_T1	4	6	2	0.93	0.8	-0.13	0.72	0.73	0	0	0	0	0	0
3/12/2025 17:49	45501	DERR_T2	0	0	0	0	0	0	0.14	0.08	2	2	0	1800	1800	0
3/12/2025 17:50	40201	BEGA_T2	22	18	-4	0.28	0.32	0.04	0	0	0	0	0	0	0	0
3/12/2025 17:51	42302	MOWR_T2	0	0	0	0	0	0	0.47	0.53	0	0	0	0	0	0
3/12/2025 17:55	54505	ENOL_T2	1	1	0	0.5	0.4	-0.1	-1.45	-1.43	1	1	0	600	600	0
3/12/2025 17:55	54506	ENOL_T2	2	2	0	4	0	-4	0	0	0	0	0	0	0	0
3/12/2025 17:55	54502	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/12/2025 17:56	64701	LITI_T1	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
3/12/2025 17:56	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
3/12/2025 17:57	59202	THOM_T1	346	315	-31	0.38	0.34	-0.04	0	0	0	0	0	0	0	0
3/12/2025 17:57	59201	THOM_T1	37	27	-10	0.39	0.43	0.04	0	0	0	0	0	0	0	0
3/12/2025 18:07	17805	GILB_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
3/12/2025 18:08	17805	GILB_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
3/12/2025 18:10	17805	GILB_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
3/12/2025 18:18	43402	BENT_T1	0	0	0	0	0	0	-1.01	-1.02	1	1	0	900	900	0
3/12/2025 18:21	60404	DILL_T2	0	0	0	0	0	0	1.24	1.08	0	0	0	0	0	0
3/12/2025 18:28	54502	ENOL_T2	1	1	0	1	0.9	-0.1	-2.19	-2.15	1	1	0	600	600	0
3/12/2025 18:28	54505	ENOL_T2	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/12/2025 18:30	44201	POIN_T1	0	0	0	0	0	0	-2.36	-2.34	1	1	0	1200	1200	0
3/12/2025 18:30	45801	HEGI_T1	0	0	0	0	0	0	-0.41	-0.38	1	1	0	900	900	0
3/12/2025 18:30	67001	STHI_T2	0	1	1	0	0.1	0.1	0.03	0.03	0	0	0	0	0	0
3/12/2025 18:34	41802	GOCI_T2	22	22	0	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
3/12/2025 18:34	41801	GOCI_T2	177	166	-11	0.39	0.3	-0.09	0	0	0	0	0	0	0	0
3/12/2025 18:37	40504	CRES_T1	24	7	-17	0.21	0.1	-0.11	0	0	0	0	0	0	0	0
3/12/2025 18:38	40504	CRES_T1	24	7	-17	0.21	0.1	-0.11	-0.52	-0.55	0	0	0	0	0	0
3/12/2025 18:41	40504	CRES_T1	24	7	-17	0.21	0.1	-0.11	-0.52	-0.55	0	0	0	0	0	0
3/12/2025 18:47	60301	TWVA_T2	0	0	0	0	0	0	-3.26	-3.27	2	2	0	1800	1800	0
3/12/2025 18:51	67605	WARW_T1	12	17	5	0.37	0.48	0.11	0	0	0	0	0	0	0	0
3/12/2025 18:51	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
3/12/2025 18:51	67604	WARW_T1	0	0	0	0	0	0	0.7	0.65	0	0	0	0	0	0
3/12/2025 18:52	60404	DILL_T2	0	0	0	0	0	0	1.08	1.09	0	0	0	0	0	0
3/12/2025 18:53	67605	WARW_T1	12	17	5	0.37	0.48	0.11	0	0	0	0	0	0	0	0
3/12/2025 18:53	67603	WARW_T1	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
3/12/2025 19:01	41205	KENM_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
3/12/2025 19:01	41202	KENM_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/12/2025 20:07	54505	ENOL_T2	0	1	1	0	0.2	0.2	-1.41	-1.42	1	1	0	600	600	0
3/12/2025 20:07	54502	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/12/2025 20:09	46901	MNTG_T2	0	0	0	0	0	0	1.14	1.06	0	0	0	0	0	0
3/12/2025 20:18	10602	BLGL_T2	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
3/12/2025 20:21	43304	WATS_T2	0	0	0	0	0	0	0.62	0.77	0	0	0	0	0	0
3/12/2025 20:44	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 20:44	66402	ROBE_T1	80	150	70	0.26	0.58	0.32	0	0	2	2	0	1500	1500	0
3/12/2025 20:44	66401	ROBE_T1	192	309	117	0.3	0.61	0.31	0	0	0	0	0	0	0	0
3/12/2025 20:44	21206	ECAR_T2	1	1	0	7.4	7.5	0.1	1.36	1.39	0	0	0	0	0	0
3/12/2025 20:46	41801	GOCI_T2	1	15	14	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/12/2025 20:46	41802	GOCI_T2	11	18	7	0.16	0.23	0.07	0	0	0	0	0	0	0	0
3/12/2025 20:48	55105	WERT_T1	0	0	0	0	0	0	-0.81	-0.79	1	1	0	900	900	0
3/12/2025 20:51	63803	HEMP_T1	0	0	0	0	0	0	0.48	0.47	0	0	0	0	0	0
3/12/2025 20:51	63804	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 20:51	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
3/12/2025 20:52	63801	HEMP_T1	0	0	0	0	0	0	-0.17	-0.28	0	0	0	0	0	0
3/12/2025 20:52	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
3/12/2025 20:53	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0.68	0.68	0	0	0	0	0	0
3/12/2025 20:55	21206	ECAR_T2	1	1	0	7.3	7.9	0.6	1.39	1.29	0	0	0	0	0	0
3/12/2025 20:55	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0.68	0.68	0	0	0	0	0	0
3/12/2025 20:55	21204	ECAR_T2	1	2	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 20:57	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
3/12/2025 20:57	54001	SDLE_T1	5	4	-1	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
3/12/2025 20:57	63802	HEMP_T1	0	0	0	0	0	0	0.1	0.05	0	0	0	0	0	0
3/12/2025 20:58	54001	SDLE_T1	5	4	-1	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
3/12/2025 20:59	54001	SDLE_T1	5	4	-1	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
3/12/2025 20:59	23401	HONE_T2	0	0	0	0	0	0	-1.43	-1.44	0	0	0	0	0	0
3/12/2025 21:00	54001	SDLE_T1	4	1	-3	0.23	0.4	0.17	0	0	0	0	0	0	0	0
3/12/2025 21:01	24202	PROV_T4	5	23	18	0.14	0.14	0	-0.92	-0.96	1	1	0	1200	1200	0
3/12/2025 21:01	54001	SDLE_T1	4	1	-3	0.23	0.4	0.17	0	0	0	0	0	0	0	0
3/12/2025 21:01	17805	GILB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:01	22002	BOHE_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
3/12/2025 21:02	54001	SDLE_T1	4	1	-3	0.23	0.4	0.17	0	0	0	0	0	0	0	0
3/12/2025 21:02	22602	KIMB_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
3/12/2025 21:03	55101	WERT_T1	0	0	0	0	0	0	-1.62	-1.04	2	1	-1	1500	900	-600
3/12/2025 21:03	54001	SDLE_T1	4	1	-3	0.23	0.4	0.17	0	0	0	0	0	0	0	0
3/12/2025 21:04	15203	SFAR_T2	0	0	0	0	0	0	-1.4	-1.44	0	0	0	0	0	0
3/12/2025 21:04	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:04	62605	ENGL_T1	0	0	0	0	0	0	-0.92	-0.94	0	0	0	0	0	0
3/12/2025 21:04	21606	EYNO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:06	13905	SEID_T1	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
3/12/2025 21:06	16102	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:06	62604	ENGL_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/12/2025 21:06	62607	ENGL_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
3/12/2025 21:06	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:06	16101	BING_T2	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
3/12/2025 21:07	63602	LETO_T1	0	0	0	0	0	0	-0.57	-0.64	0	0	0	0	0	0
3/12/2025 21:07	62607	ENGL_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
3/12/2025 21:07	61303	EARL_T1	2	14	12	0.2	0.22	0.02	0.18	0.21	0	0	0	0	0	0
3/12/2025 21:07	40501	CRES_T2	9	10	1	0.22	0.31	0.09	0	0	0	0	0	0	0	0
3/12/2025 21:07	62605	ENGL_T1	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
3/12/2025 21:07	61306	EARL_T1	162	252	90	0.2	0.28	0.08	0	0	0	0	0	0	0	0
3/12/2025 21:07	22602	KIMB_T1	0	0	0	0	0	0	0.13	0.11	0	0	0	0	0	0
3/12/2025 21:07	40502	CRES_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:07	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:07	61304	EARL_T1	369	651	282	0.38	0.45	0.07	0	0	0	0	0	0	0	0
3/12/2025 21:07	17805	GILB_T2	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
3/12/2025 21:07	20401	ASHF_T2	7	8	1	0.39	0.33	-0.06	0.34	0.3	0	0	0	0	0	0
3/12/2025 21:08	10206	ALLE_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/12/2025 21:08	28102	TWLA_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
3/12/2025 21:08	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:08	64202	KINZ_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/12/2025 21:08	10102	ALLE_T2	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
3/12/2025 21:08	66401	ROBE_T1	305	321	16	0.62	0.82	0.2	0	0	1	1	0	600	600	0
3/12/2025 21:08	66402	ROBE_T1	149	150	1	0.58	0.81	0.23	0	0	0	0	0	0	0	0
3/12/2025 21:08	10702	CATA_T2	1	1	0	0.1	0.1	0	-0.86	-0.8	0	0	0	0	0	0
3/12/2025 21:08	14802	TREI_T2	10	8	-2	0.24	0.25	0.01	0.36	0.36	0	0	0	0	0	0
3/12/2025 21:08	64201	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:08	64203	KINZ_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
3/12/2025 21:08	21601	EYNO_T1	0	0	0	0	0	0	0.43	0.24	0	0	0	0	0	0
3/12/2025 21:08	41502	FAIR_T2	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
3/12/2025 21:08	14801	TREI_T2	58	57	-1	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/12/2025 21:08	64204	KINZ_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
3/12/2025 21:08	54701	NEBL_T1	1	3	2	0.2	0.33	0.13	0	0	1	1	0	600	600	0
3/12/2025 21:08	15104	UPHA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:08	10203	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:08	54001	SDLE_T1	4	1	-3	0.23	0.4	0.17	0	0	0	0	0	0	0	0
3/12/2025 21:09	64904	MILL_T1	0	0	0	0	0	0	0.38	0.4	0	0	0	0	0	0
3/12/2025 21:09	47104	MARL_T1	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
3/12/2025 21:09	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:09	46002	BERW_T2	0	0	0	0	0	0	-1.16	-1.18	1	1	0	900	900	0
3/12/2025 21:09	62607	ENGL_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
3/12/2025 21:09	67002	STHI_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
3/12/2025 21:09	67106	SPRI_T2	0	0	0	0	0	0	-1.34	-1.35	1	1	0	900	900	0
3/12/2025 21:09	64901	MILL_T1	2	16	14	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/12/2025 21:09	21203	ECAR_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/12/2025 21:10	43801	SWIL_T1	2	2	0	3.3	3.2	-0.1	0	0	0	0	0	0	0	0
3/12/2025 21:10	64501	LAVI_T1	151	153	2	0.62	0.77	0.15	0	0	0	0	0	0	0	0
3/12/2025 21:10	64204	KINZ_T1	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
3/12/2025 21:10	14802	TREI_T2	10	8	-2	0.24	0.25	0.01	0	0	0	0	0	0	0	0
3/12/2025 21:10	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:10	15201	SFAR_T1	0	0	0	0	0	0	-0.98	-1	2	2	0	1800	1800	0
3/12/2025 21:10	64502	LAVI_T1	295	321	26	0.38	0.46	0.08	0	0	0	0	0	0	0	0
3/12/2025 21:10	14801	TREI_T2	58	57	-1	0.17	0.19	0.02	0.36	0.37	0	0	0	0	0	0
3/12/2025 21:10	64202	KINZ_T1	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/12/2025 21:10	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
3/12/2025 21:10	10801	OHHI_T1	0	0	0	0	0	0	-1.06	-1.06	1	1	0	900	900	0
3/12/2025 21:10	40505	CRES_T1	0	0	0	0	0	0	0.64	0.6	0	0	0	0	0	0
3/12/2025 21:10	15203	SFAR_T2	0	0	0	0	0	0	-1.44	-1.43	0	0	0	0	0	0
3/12/2025 21:10	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:10	10206	ALLE_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/12/2025 21:10	43802	SWIL_T1	0	0	0	0	0	0	-0.25	-0.24	1	1	0	600	600	0
3/12/2025 21:10	67001	STHI_T2	0	1	1	0	0.1	0.1	0.02	0.02	0	0	0	0	0	0
3/12/2025 21:10	10102	ALLE_T2	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
3/12/2025 21:10	66401	ROBE_T1	305	321	16	0.62	0.82	0.2	0	0	1	1	0	600	600	0
3/12/2025 21:10	41301	FISH_T1	3	6	3	1.07	0.7	-0.37	-0.34	-0.34	0	0	0	0	0	0
3/12/2025 21:10	42301	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:10	64203	POIN_T2	0	0	0	0	0	0	-1.03	-0.78	2	2	0	2100	2100	0
3/12/2025 21:10	64503	LAVI_T1	97	111	14	0.23	0.28	0.05	-0.59	-0.58	1	1	0	1200	1200	0
3/12/2025 21:10	66402	ROBE_T1	149	150	1	0.58	0.81	0.23	0	0	0	0	0	0	0	0
3/12/2025 21:10	64201	KINZ_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:10	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:10	40504	CRES_T1	0	3	3	0	0.1	0.1	-0.57	-0.58	0	0	0	0	0	0
3/12/2025 21:10	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/12/2025 21:11	51301	CARL_T1	1	1	0	4.9	5	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:11	67401	WAKE_T2	3	8	5	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/12/2025 21:11	51107	CARL_T1	10	13	3	0.15	0.22	0.07	0	0	0	0	0	0	0	0
3/12/2025 21:11	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:11	66504	SMAN_T2	0	1	1	0	0.1	0.1	-1.38	-1.44	0	0	0	0	0	0
3/12/2025 21:11	60801	BUCK_T1	7	22	15	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/12/2025 21:11	54502	ENOL_T2	1	1	0	0.9	1.2	0.3	-2.03	-2.07	1	1	0	600	600	0
3/12/2025 21:11	66503	SMAN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:11	67002	STHI_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
3/12/2025 21:11	42301	MOWR_T2	0	0	0	0	0	0	-1.48	-1.64	0	0	0	0	0	0
3/12/2025 21:11	60803	BUCK_T1	1	3	2	0.1	0.13	0.03	-0.59	-0.6	1	1	0	600	600	0
3/12/2025 21:11	66505	SMAN_T2	3	3	0	1.8	1.97	0.17	0	0	0	0	0	0	0	0
3/12/2025 21:11	64701	LITI_T1	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
3/12/2025 21:11	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/12/2025 21:11	51102	CARL_T1	58	13	-45	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
3/12/2025 21:11	61304	EARL_T1	369	651	282	0.38	0.45	0.07	0	0	0	0	0	0	0	0
3/12/2025 21:11	62607	ENGL_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
3/12/2025 21:11	41301	FISH_T1	3	6	3	1.07	0.7	-0.37	0	0	0	0	0	0	0	0
3/12/2025 21:11	61802	EELI_T2	0	0	0	0	0	0	-0.39	-0.41	0	0	0	0	0	0
3/12/2025 21:11	63501	HEID_TBK1-2	2	11	9	0.55	0.26	-0.29	0	0	0	0	0	0	0	0
3/12/2025 21:11	61306	EARL_T1	162	252	90	0.2	0.28	0.08	0	0	0	0	0	0	0	0
3/12/2025 21:11	66501	SMAN_T2	12	25	13	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
3/12/2025 21:11	61801	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:11	66502	SMAN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:11	67502	WEWI_T2	150	122	-28	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
3/12/2025 21:11	61303	EARL_T1	2	14	12	0.2	0.22	0.02	0	0	0	0	0	0	0	0
3/12/2025 21:11	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:11	48302	ORWI_T2	2	5	3	9.1	3.78	-5.32	-0.14	-0.14	0	0	0	0	0	0
3/12/2025 21:11	67402	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:11	17802	GILB_T1	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
3/12/2025 21:11	44801	EDAN_T2	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/12/2025 21:11	67503	WEWI_T2	12	69	57	0.11	0.2	0.09	0	0	0	0	0	0	0	0
3/12/2025 21:11	44802	EDAN_T2	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
3/12/2025 21:12	43202	MVIL_T2	75	84	9	0.56	0.64	0.08	-0.72	-0.68	0	0	0	0	0	0
3/12/2025 21:12	10903	COOP_T2	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
3/12/2025 21:12	10101	ALLE_T3	2	2	0	3.45	4.3	0.85	0	0	0	0	0	0	0	0
3/12/2025 21:12	20401	ASHF_T2	7	8	1	0.39	0.33	-0.06	0	0	0	0	0	0	0	0
3/12/2025 21:12	67002	STHI_T2	0	0	0	0	0	0	0.92	0.92	0	0	0	0	0	0
3/12/2025 21:12	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:12	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/12/2025 21:12	11406	FARM_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:12	20403	ASHF_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
3/12/2025 21:12	16302	ALPA_T2	0	0	0	0	0	0	1.77	1.65	0	0	0	0	0	0
3/12/2025 21:12	14801	TREI_T2	58	57	-1	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/12/2025 21:12	41301	FISH_T1	3	6	3	1.07	0.7	-0.37	-0.34	-0.34	0	0	0	0	0	0
3/12/2025 21:12	23203	HIHU_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
3/12/2025 21:12	11405	FARM_T1	1	1	0	4.9	4.5	-0.4	0	0	0	0	0	0	0	0
3/12/2025 21:12	44201	POIN_T1	0	0	0	0	0	0	-2.33	-2.34	1	1	0	1200	1200	0
3/12/2025 21:12	52002	LING_T2	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
3/12/2025 21:12	51301	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:12	67303	WYOM_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
3/12/2025 21:12	15702	TANN_T2	0	0	0	0	0	0	-0.46	-0.45	0	0	0	0	0	0
3/12/2025 21:12	44301	BEAV_T2	2	0	-2	1.15	0	-1.15	0	0	0	0	0	0	0	0
3/12/2025 21:12	61303	EARL_T1	2	14	12	0.2	0.22	0.02	0.18	0.21	0	0	0	0	0	0
3/12/2025 21:12	60201	ATGL_T2	4	34	30	0.1	0.16	0.06	-0.2	-0.16	0	0	0	0	0	0
3/12/2025 21:12	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:12	40504	CRES_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:12	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:12	52004	LING_T2	3	3	0	4.4	4.5	0.1	0.09	0.09	0	0	0	0	0	0
3/12/2025 21:12	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:12	40505	CRES_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
3/12/2025 21:12	11202	ELHE_T2	0	0	0	0	0	0	0.35	0.37	1	1	0	1200	1200	0
3/12/2025 21:12	10206	ALLE_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/12/2025 21:12	14802	TREI_T2	10	8	-2	0.24	0.25	0.01	0.72	0.72	0	0	0	0	0	0
3/12/2025 21:12	10102	ALLE_T2	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
3/12/2025 21:12	60803	BUCK_T1	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/12/2025 21:12	61306	EARL_T1	162	252	90	0.2	0.28	0.08	0.01	0.02	0	0	0	0	0	0
3/12/2025 21:12	40601	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:12	64801	MONE_T2	102	144	42	0.37	0.46	0.09	0	0	0	0	0	0	0	0
3/12/2025 21:12	64802	MONE_T2	93	146	53	0.32	0.37	0.05	0	0	0	0	0	0	0	0
3/12/2025 21:12	61304	EARL_T1	369	651	282	0.38	0.45	0.07	-0.34	-0.33	0	0	0	0	0	0
3/12/2025 21:12	63501	HEID_TBK1-2	2	11	9	0.55	0.26	-0.29	0.39	0.38	0	0	0	0	0	0
3/12/2025 21:12	15703	TANN_T2	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
3/12/2025 21:12	52006	LING_T2	2	2	0	1.05	1.1	0.05	0	0	0	0	0	0	0	0
3/12/2025 21:12	60801	BUCK_T1	7	22	15	0.1	0.17	0.07	-0.27	-0.28	0	0	0	0	0	0
3/12/2025 21:12	67401	WAKE_T2	3	8	5	0.13	0.1	-0.03	-1.07	-0.97	0	0	0	0	0	0
3/12/2025 21:13	43202	MVIL_T2	75	84	9	0.56	0.64	0.08	0	0	0	0	0	0	0	0
3/12/2025 21:13	40505	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:13	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:13	59201	THOM_T1	13	16	3	0.19	0.36	0.17	0	0	0	0	0	0	0	0
3/12/2025 21:13	67603	WARW_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
3/12/2025 21:13	60801	BUCK_T1	7	22	15	0.1	0.17	0.07	-0.27	-0.28	0	0	0	0	0	0
3/12/2025 21:13	40504	CRES_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:13	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:13	44201	POIN_T1	0	0	0	0	0	0	-2.33	-2.34	1	1	0	1200	1200	0
3/12/2025 21:13	66503	SMAN_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:13	67605	WARW_T1	12	32	20	0.42	0.51	0.09	-0.99	-0.93	0	0	0	0	0	0
3/12/2025 21:13	43201	MVIL_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
3/12/2025 21:13	17802	GILB_T1	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
3/12/2025 21:13	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:13	66505	SMAN_T2	3	3	0	1.8	1.97	0.17	0	0	0	0	0	0	0	0
3/12/2025 21:13	40601	PIGR_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:13	45402	WBLO_T2	1	0	-1	0.1	0	-0.1	-0.82	-0.83	0	0	0	0	0	0
3/12/2025 21:13	61304	EARL_T1	369	651	282	0.38	0.45	0.07	-0.34	-0.33	0	0	0	0	0	0
3/12/2025 21:13	60803	BUCK_T1	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/12/2025 21:13	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:13	66504	SMAN_T2	0	1	1	0	0.1	0.1	-0.69	-0.72	0	0	0	0	0	0
3/12/2025 21:13	40501	CRES_T2	9	10	1	0.22	0.31	0.09	0	0	0	0	0	0	0	0
3/12/2025 21:13	64503	LAVI_T1	97	111	14	0.23	0.28	0.05	0	0	0	0	0	0	0	0
3/12/2025 21:13	64802	MONE_T2	93	146	53	0.32	0.37	0.05	0	0	0	0	0	0	0	0
3/12/2025 21:13	61306	EARL_T1	162	252	90	0.2	0.28	0.08	0.01	0.02	0	0	0	0	0	0
3/12/2025 21:13	61303	EARL_T1	2	14	12	0.2	0.22	0.02	0.18	0.21	0	0	0	0	0	0
3/12/2025 21:13	47101	MARL_T1	0	0	0	0	0	0	-1.28	-1.26	0	0	0	0	0	0
3/12/2025 21:13	67002	STHI_T2	0	0	0	0	0	0	0.92	0.92	0	0	0	0	0	0
3/12/2025 21:13	64502	LAVI_T1	295	321	26	0.38	0.46	0.08	0	0	0	0	0	0	0	0
3/12/2025 21:13	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0.01	0.02	0	0	0	0	0	0
3/12/2025 21:13	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/12/2025 21:13	42302	MOWR_T2	0	0	0	0	0	0	-1.11	-1.23	0	0	0	0	0	0
3/12/2025 21:13	62606	ENGL_T1	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
3/12/2025 21:13	64801	MONE_T2	102	144	42	0.37	0.46	0.09	0	0	0	0	0	0	0	0
3/12/2025 21:13	54502	ENOL_T2	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
3/12/2025 21:13	63601	LETO_T1	0	1	1	0	0.1	0.1	2.6	2.2	2	2	0	1800	1800	0
3/12/2025 21:13	67401	WAKE_T2	3	8	5	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/12/2025 21:13	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:13	62607	ENGL_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
3/12/2025 21:13	64501	LAVI_T1	151	153	2	0.62	0.77	0.15	-2.05	-2.02	0	0	0	0	0	0
3/12/2025 21:13	54505	ENOL_T2	1	1	0	0.4	0.6	0.2	-1.41	-1.43	1	1	0	600	600	0
3/12/2025 21:13	48302	ORWI_T2	2	5	3	9.1	3.78	-5.32	-0.14	-0.14	0	0	0	0	0	0
3/12/2025 21:13	66501	SMAN_T2	12	25	13	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
3/12/2025 21:13	40502	CRES_T2	0	3	3	0	0.1	0.1	0.34	0.32	0	0	0	0	0	0
3/12/2025 21:13	59202	THOM_T1	28	135	107	0.21	0.21	0	0	0	0	0	0	0	0	0
3/12/2025 21:13	66502	SMAN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:13	67303	WYOM_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
3/12/2025 21:13	47901	HRDG_T1	0	0	0	0	0	0	1.84	1.75	0	0	0	0	0	0
3/12/2025 21:14	50506	MECH_T1	0	22	22	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:14	14801	TREI_T2	58	57	-1	0.17	0.19	0.02	0.36	0.37	0	0	0	0	0	0
3/12/2025 21:14	61304	EARL_T1	369	651	282	0.38	0.45	0.07	0	0	0	0	0	0	0	0
3/12/2025 21:14	60201	ATGL_T2	4	34	30	0.1	0.16	0.06	-0.2	-0.16	0	0	0	0	0	0
3/12/2025 21:14	44801	EDAN_T2	1	2	1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/12/2025 21:14	16103	BING_T2	0	0	0	0	0	0	-1.19	-1.2	2	2	0	1500	1500	0
3/12/2025 21:14	60301	TWVA_T2	0	0	0	0	0	0	-3.36	-3.35	2	2	0	1800	1800	0
3/12/2025 21:14	63501	HEID_TBK1-2	2	11	9	0.55	0.26	-0.29	0.39	0.38	0	0	0	0	0	0
3/12/2025 21:14	50501	MECH_T1	43	121	78	0.15	0.19	0.04	-0.5	-0.78	0	0	0	0	0	0
3/12/2025 21:14	67605	WARW_T1	12	32	20	0.42	0.51	0.09	-0.99	-0.93	0	0	0	0	0	0
3/12/2025 21:14	57201	ROSS_T1	0	12	12	0	0.16	0.16	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/12/2025 21:14	44505	HAMI_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
3/12/2025 21:14	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:14	11301	EMMA_T1	0	0	0	0	0	0	-0.95	-0.96	0	0	0	0	0	0
3/12/2025 21:14	14802	TREI_T2	10	8	-2	0.24	0.25	0.01	0	0	0	0	0	0	0	0
3/12/2025 21:14	50504	MECH_T1	1	94	93	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/12/2025 21:14	10102	ALLE_T2	1	1	0	6.5	6.5	0	0	0	0	0	0	0	0	0
3/12/2025 21:14	61306	EARL_T1	162	252	90	0.2	0.28	0.08	0.01	0.02	0	0	0	0	0	0
3/12/2025 21:14	55001	NEWP_T1	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
3/12/2025 21:14	64503	LAVI_T1	97	111	14	0.23	0.28	0.05	0	0	0	0	0	0	0	0
3/12/2025 21:14	51306	WIND_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
3/12/2025 21:14	45501	DERR_T2	0	1	1	0	0	0	0.19	0.22	2	2	0	1800	1800	0
3/12/2025 21:14	61301	EARL_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
3/12/2025 21:14	40101	HUNT_T2	0	0	0	0	0	0	-1.68	-1.72	0	0	0	0	0	0
3/12/2025 21:14	64501	LAVI_T1	151	153	2	0.62	0.77	0.15	-2.05	-2.02	0	0	0	0	0	0
3/12/2025 21:14	50505	MECH_T1	0	0	0	0	0	0	-0.93	-0.95	0	0	0	0	0	0
3/12/2025 21:14	11302	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:14	59201	THOM_T1	13	16	3	0.19	0.36	0.17	0	0	0	0	0	0	0	0
3/12/2025 21:14	64502	LAVI_T1	295	321	26	0.38	0.46	0.08	0	0	0	0	0	0	0	0
3/12/2025 21:14	55002	NEWP_T1	0	2	2	0	0.1	0.1	-0.25	-0.25	0	0	0	0	0	0
3/12/2025 21:14	60803	BUCK_T1	1	3	2	0.1	0.13	0.03	-0.59	-0.6	1	1	0	600	600	0
3/12/2025 21:14	60801	BUCK_T1	7	22	15	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/12/2025 21:14	61801	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:14	15101	UPHA_T1	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
3/12/2025 21:14	44802	EDAN_T2	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
3/12/2025 21:14	61303	EARL_T1	2	14	12	0.2	0.22	0.02	0	0	0	0	0	0	0	0
3/12/2025 21:14	20401	ASHF_T2	7	8	1	0.39	0.33	-0.06	0.34	0.3	0	0	0	0	0	0
3/12/2025 21:14	67401	WAKE_T2	3	8	5	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/12/2025 21:14	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:14	15203	SFAR_T2	0	0	0	0	0	0	-1.44	-1.43	0	0	0	0	0	0
3/12/2025 21:14	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
3/12/2025 21:14	67106	SPRI_T2	0	0	0	0	0	0	-1.34	-1.35	1	1	0	900	900	0
3/12/2025 21:14	43402	BENT_T1	0	0	0	0	0	0	-1.04	-1.04	1	1	0	900	900	0
3/12/2025 21:14	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:14	52502	PROG_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	900	900	0
3/12/2025 21:14	15204	SFAR_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
3/12/2025 21:14	40504	CRES_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:14	57203	ROSS_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
3/12/2025 21:14	58401	MORO_T1	0	0	0	0	0	0	-1.34	-1.32	1	1	0	600	600	0
3/12/2025 21:14	42301	MOWR_T2	0	0	0	0	0	0	-0.74	-0.82	0	0	0	0	0	0
3/12/2025 21:14	10206	ALLE_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/12/2025 21:14	15103	UPHA_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
3/12/2025 21:14	13303	ORVI_T1	0	0	0	0	0	0	0.88	0.88	0	0	0	0	0	0
3/12/2025 21:14	50502	MECH_T1	5	5	0	0.84	1.1	0.26	0	0	0	0	0	0	0	0
3/12/2025 21:14	59202	THOM_T1	28	135	107	0.21	0.21	0	0	0	0	0	0	0	0	0
3/12/2025 21:14	20403	ASHF_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
3/12/2025 21:14	45801	HEGI_T1	0	0	0	0	0	0	-0.32	-0.27	1	1	0	900	900	0
3/12/2025 21:14	67603	WARW_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
3/12/2025 21:14	16102	BING_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:14	43304	WATS_T2	0	0	0	0	0	0	0.64	0.59	0	0	0	0	0	0
3/12/2025 21:15	44802	EDAN_T2	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
3/12/2025 21:15	44801	EDAN_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
3/12/2025 21:15	61301	EARL_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
3/12/2025 21:15	40504	CRES_T1	2	11	9	0.1	0.1	0	-0.57	-0.58	0	0	0	0	0	0
3/12/2025 21:15	44202	POIN_T2	0	0	0	0	0	0	-0.63	-0.59	1	1	0	1200	1200	0
3/12/2025 21:15	64801	MONE_T2	130	149	19	0.42	0.46	0.04	0.09	0.07	0	0	0	0	0	0
3/12/2025 21:15	42301	MOWR_T2	0	0	0	0	0	0	-0.37	-0.41	0	0	0	0	0	0
3/12/2025 21:15	63602	LETO_T1	0	0	0	0	0	0	-1.14	-1.29	0	0	0	0	0	0
3/12/2025 21:15	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:15	23901	EFMO_T2	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
3/12/2025 21:15	42701	AUGU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/12/2025 21:15	43201	MVIL_T2	0	0	0	0	0	0	-0.42	-0.42	0	0	0	0	0	0
3/12/2025 21:15	23902	EFMO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:15	45902	AUBU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
3/12/2025 21:15	64802	MONE_T2	121	145	24	0.35	0.41	0.06	0	0	0	0	0	0	0	0
3/12/2025 21:15	64101	REFR_T1	0	0	0	0	0	0	-0.46	-0.44	0	0	0	0	0	0
3/12/2025 21:15	67605	WARW_T1	27	34	7	0.49	0.5	0.01	-0.99	-0.93	0	0	0	0	0	0
3/12/2025 21:15	63601	LETO_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/12/2025 21:15	41202	KENM_T2	1	1	0	0.2	0.3	0.1	0.42	0.39	0	0	0	0	0	0
3/12/2025 21:15	61304	EARL_T1	551	846	295	0.46	0.47	0.01	-0.34	-0.33	0	0	0	0	0	0
3/12/2025 21:15	44201	POIN_T1	0	0	0	0	0	0	-4.67	-4.69	2	2	0	2400	2400	0
3/12/2025 21:15	57201	ROSS_T1	10	13	3	0.18	0.15	-0.03	-0.61	-0.58	0	0	0	0	0	0
3/12/2025 21:15	67002	STHI_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
3/12/2025 21:15	43202	MVIL_T2	82	86	4	0.65	0.59	-0.06	0	0	0	0	0	0	0	0
3/12/2025 21:15	61306	EARL_T1	226	272	46	0.26	0.38	0.12	0	0	0	0	0	0	0	0
3/12/2025 21:15	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 21:15	42302	MOWR_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
3/12/2025 21:15	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:15	61303	EARL_T1	4	32	28	0.38	0.19	-0.19	0	0	0	0	0	0	0	0
3/12/2025 21:15	40505	CRES_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
3/12/2025 21:15	52502	PROG_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	900	900	0
3/12/2025 21:15	58401	MORO_T1	0	0	0	0	0	0	-1.34	-1.32	1	1	0	600	600	0
3/12/2025 21:16	40502	CRES_T2	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/12/2025 21:16	50504	MECH_T1	48	87	39	0.12	0.14	0.02	0	0	0	0	0	0	0	0
3/12/2025 21:16	59202	THOM_T1	96	279	183	0.21	0.34	0.13	0	0	0	0	0	0	0	0
3/12/2025 21:16	45502	DERR_T2	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
3/12/2025 21:16	17805	GILB_T2	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
3/12/2025 21:16	66503	SMAN_T2	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 21:16	57401	SPAN_T1	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
3/12/2025 21:16	44203	POIN_T2	0	0	0	0	0	0	-1.03	-0.78	2	2	0	2100	2100	0
3/12/2025 21:16	47401	PENS_T1	0	0	0	0	0	0	0.73	0.66	0	0	0	0	0	0
3/12/2025 21:16	10206	ALLE_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
3/12/2025 21:16	15201	SFAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:16	54502	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 21:16	50501	MECH_T1	105	105	0	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/12/2025 21:16	60803	BUCK_T1	1	12	11	0.2	0.22	0.02	-0.59	-0.6	1	1	0	600	600	0
3/12/2025 21:16	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	-1.41	-1.43	1	1	0	600	600	0
3/12/2025 21:16	66502	SMAN_T2	4	3	-1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/12/2025 21:16	66505	SMAN_T2	3	3	0	1.93	2.13	0.2	0	0	0	0	0	0	0	0
3/12/2025 21:16	15601	NSTR_T2	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
3/12/2025 21:16	44302	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:16	67605	WARW_T1	27	34	7	0.49	0.5	0.01	-0.99	-0.93	0	0	0	0	0	0
3/12/2025 21:16	46203	DANV_T2	348	351	3	0.87	1.06	0.19	-1.08	-1.13	0	0	0	0	0	0
3/12/2025 21:16	14802	TREI_T2	8	8	0	0.25	0.24	-0.01	0.36	0.36	0	0	0	0	0	0
3/12/2025 21:16	62607	ENGL_T1	0	0	0	0	0	0	-1.64	-1.68	0	0	0	0	0	0
3/12/2025 21:16	44802	EDAN_T2	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
3/12/2025 21:16	66501	SMAN_T2	23	25	2	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
3/12/2025 21:16	61303	EARL_T1	4	32	28	0.38	0.19	-0.19	0.18	0.21	0	0	0	0	0	0
3/12/2025 21:16	44701	MUNC_T2	0	3	3	0	0.1	0.1	-1.41	-1.43	0	0	0	0	0	0
3/12/2025 21:16	43304	WATS_T2	0	0	0	0	0	0	0.64	0.59	0	0	0	0	0	0
3/12/2025 21:16	44703	MUNC_T2	1	1	0	1	1.5	0.5	0	0	0	0	0	0	0	0
3/12/2025 21:16	55002	NEWP_T1	2	2	0	0.1	0.2	0.1	-0.5	-0.5	0	0	0	0	0	0
3/12/2025 21:16	10603	BLGL_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
3/12/2025 21:16	44202	POIN_T2	0	0	0	0	0	0	-0.63	-0.59	1	1	0	1200	1200	0
3/12/2025 21:16	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:16	46004	BERW_T2	0	0	0	0	0	0	-0.5	-0.58	0	0	0	0	0	0
3/12/2025 21:16	52401	GRPA_T2	0	25	25	0	0.14	0.14	0	0	0	0	0	0	0	0
3/12/2025 21:16	64204	KINZ_T1	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
3/12/2025 21:16	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/12/2025 21:16	59201	THOM_T1	15	21	6	0.35	0.49	0.14	0	0	0	0	0	0	0	0
3/12/2025 21:16	60801	BUCK_T1	10	36	26	0.14	0.19	0.05	-0.27	-0.28	0	0	0	0	0	0
3/12/2025 21:16	52403	GRPA_T2	0	3	3	0	0.5	0.5	-0.55	-0.66	0	0	0	0	0	0
3/12/2025 21:16	64101	REFR_T1	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
3/12/2025 21:16	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:16	50506	MECH_T1	8	18	10	0.1	0.11	0.01	0	0	0	0	0	0	0	0
3/12/2025 21:16	67401	WAKE_T2	3	5	2	0.1	0.1	0	-1.07	-0.97	0	0	0	0	0	0
3/12/2025 21:16	40501	CRES_T2	3	12	9	0.17	0.28	0.11	0	0	0	0	0	0	0	0
3/12/2025 21:16	64201	KINZ_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:16	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:16	67002	STHI_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
3/12/2025 21:16	50502	MECH_T1	5	5	0	0.94	1.1	0.16	0	0	0	0	0	0	0	0
3/12/2025 21:16	40504	CRES_T1	2	11	9	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 21:16	64202	KINZ_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/12/2025 21:16	44801	EDAN_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
3/12/2025 21:16	10102	ALLE_T2	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
3/12/2025 21:16	61306	EARL_T1	226	272	46	0.26	0.38	0.12	0	0	0	0	0	0	0	0
3/12/2025 21:16	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:16	61304	EARL_T1	551	846	295	0.46	0.47	0.01	0	0	0	0	0	0	0	0
3/12/2025 21:16	57403	SPAN_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
3/12/2025 21:16	52402	GRPA_T2	3	4	1	0.93	0.88	-0.05	0	0	0	0	0	0	0	0
3/12/2025 21:16	45501	DERR_T2	1	2	1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/12/2025 21:16	62605	ENGL_T1	1	0	-1	3.8	0	-3.8	-0.94	-0.94	0	0	0	0	0	0
3/12/2025 21:16	67402	WAKE_T2	0	0	0	0	0	0	0.26	0.2	0	0	0	0	0	0
3/12/2025 21:16	13303	ORVI_T1	0	0	0	0	0	0	0.88	0.88	0	0	0	0	0	0
3/12/2025 21:16	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 21:16	57402	SPAN_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
3/12/2025 21:16	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:16	42301	MOWR_T2	0	0	0	0	0	0	-0.37	-0.41	0	0	0	0	0	0
3/12/2025 21:16	14801	TREI_T2	54	64	10	0.19	0.19	0	0	0	0	0	0	0	0	0
3/12/2025 21:17	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:17	46506	LOHA_T1	3	3	0	3.53	3.83	0.3	0	0	0	0	0	0	0	0
3/12/2025 21:17	44201	POIN_T1	0	0	0	0	0	0	-4.67	-4.69	2	2	0	2400	2400	0
3/12/2025 21:17	50506	MECH_T1	8	18	10	0.1	0.11	0.01	-0.24	-0.2	0	0	0	0	0	0
3/12/2025 21:17	61304	EARL_T1	551	846	295	0.46	0.47	0.01	-0.34	-0.33	0	0	0	0	0	0
3/12/2025 21:17	44502	HAMI_T2	1	1	0	3.4	3.2	-0.2	0	0	0	0	0	0	0	0
3/12/2025 21:17	46505	LOHA_T1	0	0	0	0	0	0	-0.35	-0.35	1	1	0	600	600	0
3/12/2025 21:17	63602	LETO_T1	0	0	0	0	0	0	-0.57	-0.64	0	0	0	0	0	0
3/12/2025 21:17	55001	NEWP_T1	0	0	0	0	0	0	-0.92	-0.92	0	0	0	0	0	0
3/12/2025 21:17	50504	MECH_T1	48	87	39	0.12	0.14	0.02	0	0	0	0	0	0	0	0
3/12/2025 21:17	40601	PIGR_T1	0	33	33	0	0.13	0.13	-0.24	-0.22	0	0	0	0	0	0
3/12/2025 21:17	57404	SPAN_T2	0	0	0	0	0	0	1.08	1.06	0	0	0	0	0	0
3/12/2025 21:17	40505	CRES_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
3/12/2025 21:17	54501	ENOL_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/12/2025 21:17	59202	THOM_T1	96	279	183	0.21	0.34	0.13	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/12/2025 21:17	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:17	57203	ROSS_T1	0	0	0	0	0	0	0.5	0.54	0	0	0	0	0	0
3/12/2025 21:17	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/12/2025 21:17	61306	EARL_T1	226	272	46	0.26	0.38	0.12	0	0	0	0	0	0	0	0
3/12/2025 21:17	50501	MECH_T1	105	105	0	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/12/2025 21:17	46004	BERW_T2	0	0	0	0	0	0	-0.5	-0.58	0	0	0	0	0	0
3/12/2025 21:17	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 21:17	46203	DANV_T2	348	351	3	0.87	1.06	0.19	-1.08	-1.13	0	0	0	0	0	0
3/12/2025 21:17	60803	BUCK_T1	1	12	11	0.2	0.22	0.02	0	0	0	0	0	0	0	0
3/12/2025 21:17	54502	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 21:17	64101	REFR_T1	0	0	0	0	0	0	-0.69	-0.66	0	0	0	0	0	0
3/12/2025 21:17	41202	KENM_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:17	57201	ROSS_T1	10	13	3	0.18	0.15	-0.03	-0.61	-0.58	0	0	0	0	0	0
3/12/2025 21:17	63601	LETO_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/12/2025 21:17	61301	EARL_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
3/12/2025 21:17	67603	WARW_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
3/12/2025 21:17	57401	SPAN_T1	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
3/12/2025 21:17	57403	SPAN_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
3/12/2025 21:17	42701	AUGU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
3/12/2025 21:17	43801	SWIL_T1	2	2	0	3.2	3.15	-0.05	0	0	0	0	0	0	0	0
3/12/2025 21:17	60801	BUCK_T1	10	36	26	0.14	0.19	0.05	-0.27	-0.28	0	0	0	0	0	0
3/12/2025 21:17	40504	CRES_T1	2	11	9	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 21:17	50502	MECH_T1	5	5	0	0.94	1.1	0.16	0	0	0	0	0	0	0	0
3/12/2025 21:17	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/12/2025 21:17	15601	NSTR_T2	0	3	3	0	0.6	0.6	0	0	0	0	0	0	0	0
3/12/2025 21:17	61303	EARL_T1	4	32	28	0.38	0.19	-0.19	0	0	0	0	0	0	0	0
3/12/2025 21:17	67002	STHI_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
3/12/2025 21:17	59201	THOM_T1	15	21	6	0.35	0.49	0.14	0	0	0	0	0	0	0	0
3/12/2025 21:17	53501	EVIL_T2	2	2	0	0.4	0.5	0.1	-0.75	-0.81	1	1	0	600	600	0
3/12/2025 21:17	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:17	55002	NEWP_T1	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:17	67605	WARW_T1	27	34	7	0.49	0.5	0.01	0	0	0	0	0	0	0	0
3/12/2025 21:17	45801	HEGI_T1	0	0	0	0	0	0	-0.32	-0.27	1	1	0	900	900	0
3/12/2025 21:17	40101	HUNT_T2	0	0	0	0	0	0	-1.68	-1.72	0	0	0	0	0	0
3/12/2025 21:17	64702	LITI_T2	0	1	1	0	0	0	-0.6	-0.75	0	0	0	0	0	0
3/12/2025 21:17	42301	MOWR_T2	0	0	0	0	0	0	-0.37	-0.41	0	0	0	0	0	0
3/12/2025 21:17	46002	BERW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:17	51306	WIND_T2	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0
3/12/2025 21:18	64802	MONE_T2	121	145	24	0.35	0.41	0.06	83.96	83.96	0	0	0	0	0	0
3/12/2025 21:18	66505	SMAN_T2	3	3	0	1.93	2.13	0.2	0	0	0	0	0	0	0	0
3/12/2025 21:18	63501	HEID_TBK1-2	11	18	7	0.25	0.24	-0.01	1.17	1.14	0	0	0	0	0	0
3/12/2025 21:18	44302	BEAV_T2	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
3/12/2025 21:18	20401	ASHF_T2	8	8	0	0.36	0.47	0.11	0	0	0	0	0	0	0	0
3/12/2025 21:18	64502	LAVI_T1	320	270	-50	0.46	0.36	-0.1	0	0	0	0	0	0	0	0
3/12/2025 21:18	52403	GRPA_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
3/12/2025 21:18	43202	MVIL_T2	82	86	4	0.65	0.59	-0.06	-0.72	-0.68	0	0	0	0	0	0
3/12/2025 21:18	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	-1.41	-1.43	1	1	0	600	600	0
3/12/2025 21:18	12602	MACA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:18	24102	EHAZ_T1	6	6	0	1.63	1.38	-0.25	0	0	0	0	0	0	0	0
3/12/2025 21:18	45501	DERR_T2	1	2	1	0.1	0	-0.1	0.76	0.9	8	8	0	7200	7200	0
3/12/2025 21:18	52404	GRPA_T2	0	1	1	0	0.1	0.1	0.6	0.54	0	0	0	0	0	0
3/12/2025 21:18	66501	SMAN_T2	23	25	2	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
3/12/2025 21:18	14801	TREI_T2	54	64	10	0.19	0.19	0	0	0	0	0	0	0	0	0
3/12/2025 21:18	66503	SMAN_T2	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 21:18	60201	ATGL_T2	14	107	93	0.13	0.27	0.14	0	0	0	0	0	0	0	0
3/12/2025 21:18	44801	EDAN_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
3/12/2025 21:18	57201	ROSS_T1	10	13	3	0.18	0.15	-0.03	-0.61	-0.58	0	0	0	0	0	0
3/12/2025 21:18	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:18	24101	EHAZ_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:18	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/12/2025 21:18	61502	EPET_T1	7	49	42	0.11	0.15	0.04	-1.25	-1.29	0	0	0	0	0	0
3/12/2025 21:18	46004	BERW_T2	0	0	0	0	0	0	-0.5	-0.58	0	0	0	0	0	0
3/12/2025 21:18	52001	LING_T1	0	0	0	0	0	0	0.09	0.04	0	0	0	0	0	0
3/12/2025 21:18	61304	EARL_T1	551	846	295	0.46	0.47	0.01	-0.34	-0.33	0	0	0	0	0	0
3/12/2025 21:18	24104	EHAZ_T1	0	0	0	0	0	0	-2.28	-2.24	1	1	0	1200	1200	0
3/12/2025 21:18	57205	ROSS_T1	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
3/12/2025 21:18	44502	HAMI_T2	1	1	0	3.4	3.2	-0.2	0	0	0	0	0	0	0	0
3/12/2025 21:18	54504	ENOL_T2	0	0	0	0	0	0	-0.41	-0.45	0	0	0	0	0	0
3/12/2025 21:18	67605	WARW_T1	27	34	7	0.49	0.5	0.01	0	0	0	0	0	0	0	0
3/12/2025 21:18	64503	LAVI_T1	111	56	-55	0.28	0.29	0.01	-1.18	-1.15	2	2	0	2400	2400	0
3/12/2025 21:18	44505	HAMI_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
3/12/2025 21:18	60801	BUCK_T1	10	36	26	0.14	0.19	0.05	0	0	0	0	0	0	0	0
3/12/2025 21:18	66502	SMAN_T2	4	3	-1	0.1	0.13	0.03	-0.19	-0.22	0	0	0	0	0	0
3/12/2025 21:18	48303	ORWI_T2	0	0	0	0	0	0	0.47	0.44	0	0	0	0	0	0
3/12/2025 21:18	67001	STHI_T2	1	1	0	0.1	0.1	0	0.04	0.04	0	0	0	0	0	0
3/12/2025 21:18	24105	EHAZ_T1	4	4	0	6.18	5.68	-0.5	0	0	0	0	0	0	0	0
3/12/2025 21:18	52401	GRPA_T2	0	25	25	0	0.14	0.14	0	0	0	0	0	0	0	0
3/12/2025 21:18	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:18	57403	SPAN_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
3/12/2025 21:18	61001	DONV_T1	0	0	0	0	0	0	-0.11	-0.17	0	0	0	0	0	0
3/12/2025 21:18	64101	REFR_T1	0	0	0	0	0	0	-0.69	-0.66	0	0	0	0	0	0
3/12/2025 21:18	53902	HALI_T2	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:18	40601	PIGR_T1	0	33	33	0	0.13	0.13	0	0	0	0	0	0	0	0
3/12/2025 21:18	10801	CHHI_T1	0	0	0	0	0	0	-2.12	-2.12	2	2	0	1800	1800	0
3/12/2025 21:18	60803	BUCK_T1	1	12	11	0.2	0.22	0.02	-0.59	-0.6	1	1	0	600	600	0
3/12/2025 21:18	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:18	64501	LAVI_T1	153	149	-4	0.77	0.54	-0.23	0	0	0	0	0	0	0	0
3/12/2025 21:18	14802	TREI_T2	8	8	0	0.25	0.24	-0.01	0.36	0.36	0	0	0	0	0	0
3/12/2025 21:18	52006	LING_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:18	13303	ORVI_T1	0	0	0	0	0	0	0.88	0.88	0	0	0	0	0	0
3/12/2025 21:18	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:18	61303	EARL_T1	4	32	28	0.38	0.19	-0.19	0	0	0	0	0	0	0	0
3/12/2025 21:18	62605	ENGL_T1	1	0	-1	3.8	0	-3.8	-0.94	-0.94	0	0	0	0	0	0
3/12/2025 21:18	53501	EVIL_T2	2	2	0	0.4	0.5	0.1	-0.75	-0.81	1	1	0	600	600	0
3/12/2025 21:18	43402	BENT_T1	0	0	0	0	0	0	-1.04	-1.04	1	1	0	900	900	0
3/12/2025 21:18	24902	WHHA_T1	4	7	3	0.9	0.9	0	0.75	0.72	0	0	0	0	0	0
3/12/2025 21:18	17805	GILB_T2	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
3/12/2025 21:18	40505	CRES_T1	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
3/12/2025 21:18	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:18	53903	HALI_T2	2	2	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:18	42302	MOWR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:18	61306	EARL_T1	226	272	46	0.26	0.38	0.12	0.01	0.02	0	0	0	0	0	0
3/12/2025 21:18	23902	EFMO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:18	46001	BERW_T1	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
3/12/2025 21:18	54502	ENOL_T2	1	1	0	1	1.2	0.2	-2.03	-2.07	1	1	0	600	600	0
3/12/2025 21:18	64801	MONE_T2	130	149	19	0.42	0.46	0.04	0	0	0	0	0	0	0	0
3/12/2025 21:18	46802	HEPB_T1	1	1	0	0.2	0.3	0.1	-0.34	-0.38	0	0	0	0	0	0
3/12/2025 21:18	48302	ORWI_T2	5	9	4	3.78	2.44	-1.34	0	0	0	0	0	0	0	0
3/12/2025 21:18	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:18	10102	ALLE_T2	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
3/12/2025 21:18	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:18	16302	ALPA_T2	0	0	0	0	0	0	0.59	0.55	0	0	0	0	0	0
3/12/2025 21:18	23901	EFMO_T2	0	0	0	0	0	0	-0.33	-0.31	0	0	0	0	0	0
3/12/2025 21:18	61302	EARL_T1	0	0	0	0	0	0	2.58	2.44	0	0	0	0	0	0
3/12/2025 21:18	44201	POIN_T1	0	0	0	0	0	0	-7	-7.03	3	3	0	3600	3600	0
3/12/2025 21:18	12605	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:18	42301	MOWR_T2	0	0	0	0	0	0	-0.37	-0.41	0	0	0	0	0	0
3/12/2025 21:18	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:18	57401	SPAN_T1	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
3/12/2025 21:18	58401	MORO_T1	0	0	0	0	0	0	-1.34	-1.32	1	1	0	600	600	0
3/12/2025 21:18	44802	EDAN_T2	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
3/12/2025 21:18	23502	GEOR_T1	0	0	0	0	0	0	-0.34	-0.34	0	0	0	0	0	0
3/12/2025 21:18	53901	HALI_T2	2	2	0	0.6	0.55	-0.05	-1.05	-1.1	0	0	0	0	0	0
3/12/2025 21:18	47104	MARL_T1	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
3/12/2025 21:18	15103	UPHA_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
3/12/2025 21:18	20403	ASHF_T2	0	0	0	0	0	0	0.11	0.13	0	0	0	0	0	0
3/12/2025 21:18	52002	LING_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:18	12704	MACU_T1	0	0	0	0	0	0	-1.08	-1.09	0	0	0	0	0	0
3/12/2025 21:18	64702	LITI_T2	0	1	1	0	0	0	-0.6	-0.75	0	0	0	0	0	0
3/12/2025 21:18	40504	CRES_T1	2	11	9	0.1	0.1	0	1.71	1.74	0	0	0	0	0	0
3/12/2025 21:18	52402	GRPA_T2	3	4	1	0.93	0.88	-0.05	0	0	0	0	0	0	0	0
3/12/2025 21:18	10206	ALLE_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
3/12/2025 21:18	18001	ZION_T1	2	2	0	9.65	9.7	0.05	0	0	0	0	0	0	0	0
3/12/2025 21:18	44202	POIN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:18	52004	LING_T2	3	3	0	4.5	4.5	0	0.09	0.09	0	0	0	0	0	0
3/12/2025 21:18	67401	WAKE_T2	3	5	2	0.1	0.1	0	-1.07	-0.97	0	0	0	0	0	0
3/12/2025 21:18	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:19	52101	MEIS_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:19	66401	ROBE_T1	318	311	-7	0.82	0.59	-0.23	0	0	0	0	0	0	0	0
3/12/2025 21:19	59301	MCAL_T1	2	4	2	0.65	0.58	-0.07	0	0	0	0	0	0	0	0
3/12/2025 21:19	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	-1.41	-1.43	1	1	0	600	600	0
3/12/2025 21:19	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:19	55002	NEWP_T1	2	2	0	0.1	0.2	0.1	-0.25	-0.25	0	0	0	0	0	0
3/12/2025 21:19	57203	ROSS_T1	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
3/12/2025 21:19	44202	POIN_T2	0	0	0	0	0	0	-0.63	-0.59	1	1	0	1200	1200	0
3/12/2025 21:19	54501	ENOL_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/12/2025 21:19	57201	ROSS_T1	10	13	3	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
3/12/2025 21:19	40101	HUNT_T2	0	0	0	0	0	0	-1.68	-1.72	0	0	0	0	0	0
3/12/2025 21:19	62601	ENGL_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
3/12/2025 21:19	52403	GRPA_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
3/12/2025 21:19	64501	LAVI_T1	153	149	-4	0.77	0.54	-0.23	0	0	0	0	0	0	0	0
3/12/2025 21:19	67401	WAKE_T2	3	5	2	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 21:19	58202	NEWV_T1	1	5	4	0.2	0.2	0	0	0	0	0	0	0	0	0
3/12/2025 21:19	64503	LAVI_T1	111	56	-55	0.28	0.29	0.01	-0.59	-0.58	1	1	0	1200	1200	0
3/12/2025 21:19	62606	ENGL_T1	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
3/12/2025 21:19	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:19	53501	EVIL_T2	2	2	0	0.4	0.5	0.1	-0.75	-0.81	1	1	0	600	600	0
3/12/2025 21:19	62605	ENGL_T1	1	0	-1	3.8	0	-3.8	0	0	0	0	0	0	0	0
3/12/2025 21:19	52402	GRPA_T2	3	4	1	0.93	0.88	-0.05	0	0	0	0	0	0	0	0
3/12/2025 21:19	64502	LAVI_T1	320	270	-50	0.46	0.36	-0.1	0	0	0	0	0	0	0	0
3/12/2025 21:19	59302	MCAL_T1	1	1	0	0.2	0.5	0.3	-0.7	-0.68	1	1	0	600	600	0
3/12/2025 21:19	44802	EDAN_T2	0	0	0	0	0	0	-1	-1.01	0	0	0	0	0	0
3/12/2025 21:19	52401	GRPA_T2	0	25	25	0	0.14	0.14	-1.8	-1.8	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Manament	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/12/2025 21:19	66402	ROBE_T1	150	143	-7	0.81	0.56	-0.25	0	0	0	0	0	0	0	0
3/12/2025 21:19	44801	EDAN_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
3/12/2025 21:19	40601	PIGR_T1	0	33	33	0	0.13	0.13	-0.24	-0.22	0	0	0	0	0	0
3/12/2025 21:19	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.1	0	0	0	0	0	0
3/12/2025 21:19	54502	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 21:19	47103	MARL_T2	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
3/12/2025 21:19	46506	LOHA_T1	3	3	0	3.53	3.83	0.3	-0.21	-0.22	0	0	0	0	0	0
3/12/2025 21:19	58201	NEWV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:19	67106	SPRI_T2	0	0	0	0	0	0	-1.34	-1.35	1	1	0	900	900	0
3/12/2025 21:19	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:20	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:20	46506	LOHA_T1	3	3	0	3.53	3.83	0.3	-0.21	-0.22	0	0	0	0	0	0
3/12/2025 21:20	13302	ORVI_T2	10	11	1	0.17	0.19	0.02	1.22	1.26	0	0	0	0	0	0
3/12/2025 21:20	20602	GRWO_T2	20	42	22	0.14	0.24	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:20	67502	WEWI_T2	121	120	-1	0.22	0.19	-0.03	0	0	0	0	0	0	0	0
3/12/2025 21:20	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 21:20	42301	MOWR_T2	0	0	0	0	0	0	-1.11	-1.23	0	0	0	0	0	0
3/12/2025 21:20	64802	MONE_T2	121	145	24	0.35	0.41	0.06	83.96	83.96	0	0	0	0	0	0
3/12/2025 21:20	52004	LING_T2	3	3	0	4.5	4.5	0	0.09	0.09	0	0	0	0	0	0
3/12/2025 21:20	14801	TREI_T2	54	64	10	0.19	0.19	0	0	0	0	0	0	0	0	0
3/12/2025 21:20	10206	ALLE_T2	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
3/12/2025 21:20	67603	WARW_T1	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
3/12/2025 21:20	47401	PENS_T1	0	0	0	0	0	0	0.73	0.66	0	0	0	0	0	0
3/12/2025 21:20	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:20	50506	MECH_T1	8	18	10	0.1	0.11	0.01	-0.24	-0.2	0	0	0	0	0	0
3/12/2025 21:20	40502	CRES_T2	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/12/2025 21:20	50502	MECH_T1	5	5	0	0.94	1.1	0.16	0	0	0	0	0	0	0	0
3/12/2025 21:20	47403	PENS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:20	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
3/12/2025 21:20	40601	PIGR_T1	0	33	33	0	0.13	0.13	0	0	0	0	0	0	0	0
3/12/2025 21:20	63501	HEID_TBK1-2	11	18	7	0.25	0.24	-0.01	0.39	0.38	0	0	0	0	0	0
3/12/2025 21:20	42302	MOWR_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
3/12/2025 21:20	61801	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:20	52401	GRPA_T2	0	25	25	0	0.14	0.14	-0.9	-0.9	0	0	0	0	0	0
3/12/2025 21:20	50504	MECH_T1	48	87	39	0.12	0.14	0.02	0	0	0	0	0	0	0	0
3/12/2025 21:20	60803	BUCK_T1	1	12	11	0.2	0.22	0.02	-0.59	-0.6	1	1	0	600	600	0
3/12/2025 21:20	40501	CRES_T2	3	12	9	0.17	0.28	0.11	0	0	0	0	0	0	0	0
3/12/2025 21:20	10102	ALLE_T2	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
3/12/2025 21:20	15703	TANN_T2	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:20	52402	GRPA_T2	3	4	1	0.93	0.88	-0.05	0	0	0	0	0	0	0	0
3/12/2025 21:20	67605	WARW_T1	27	34	7	0.49	0.5	0.01	0	0	0	0	0	0	0	0
3/12/2025 21:20	57403	SPAN_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
3/12/2025 21:20	44202	POIN_T2	0	0	0	0	0	0	-0.63	-0.59	1	1	0	1200	1200	0
3/12/2025 21:20	60801	BUCK_T1	10	36	26	0.14	0.19	0.05	-0.27	-0.28	0	0	0	0	0	0
3/12/2025 21:20	15702	TANN_T2	0	0	0	0	0	0	-0.92	-0.9	0	0	0	0	0	0
3/12/2025 21:20	52403	GRPA_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
3/12/2025 21:20	67503	WEWI_T2	31	81	50	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/12/2025 21:20	61803	EELI_T2	0	0	0	0	0	0	0.76	0.73	0	0	0	0	0	0
3/12/2025 21:20	44201	POIN_T1	0	0	0	0	0	0	-2.33	-2.34	1	1	0	1200	1200	0
3/12/2025 21:20	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:20	20601	GRWO_T2	12	81	69	0.15	0.2	0.05	0.07	0.05	0	0	0	0	0	0
3/12/2025 21:20	40504	CRES_T1	2	11	9	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 21:20	52006	LING_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:20	14802	TREI_T2	8	8	0	0.25	0.24	-0.01	0.36	0.36	0	0	0	0	0	0
3/12/2025 21:20	50501	MECH_T1	105	105	0	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/12/2025 21:20	52002	LING_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:20	64202	KINZ_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/12/2025 21:20	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:20	64203	KINZ_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
3/12/2025 21:20	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:20	44801	EDAN_T2	0	2	2	0	0.7	0.7	-0.49	-0.48	0	0	0	0	0	0
3/12/2025 21:20	64801	MONE_T2	130	149	19	0.42	0.46	0.04	0	0	0	0	0	0	0	0
3/12/2025 21:20	64702	LITI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:20	67401	WAKE_T2	3	5	2	0.1	0.1	0	-1.07	-0.97	0	0	0	0	0	0
3/12/2025 21:20	54502	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 21:20	67002	STHI_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
3/12/2025 21:20	57401	SPAN_T1	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
3/12/2025 21:20	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:20	64204	KINZ_T1	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
3/12/2025 21:20	20603	GRWO_T2	94	134	40	0.38	0.42	0.04	0	0	0	0	0	0	0	0
3/12/2025 21:20	64201	KINZ_T1	1	3	2	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:20	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	-1.41	-1.43	1	1	0	600	600	0
3/12/2025 21:21	46203	DANV_T2	348	351	3	0.87	1.06	0.19	-2.26	-2.26	0	0	0	0	0	0
3/12/2025 21:21	58101	NEKI_T1	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/12/2025 21:21	52402	GRPA_T2	3	4	1	0.93	0.88	-0.05	0	0	0	0	0	0	0	0
3/12/2025 21:21	53903	HALI_T2	2	2	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:21	41002	LAUR_T2	18	10	-8	0.34	0.39	0.05	0	0	0	0	0	0	0	0
3/12/2025 21:21	66503	SMAN_T2	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 21:21	50506	MECH_T1	8	18	10	0.1	0.11	0.01	-0.24	-0.2	0	0	0	0	0	0
3/12/2025 21:21	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:21	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 21:21	58102	NEKI_T1	1	1	0	1.8	1.8	0	-0.04	0.18	0	0	0	0	0	0
3/12/2025 21:21	47201	FAXO_T2	0	0	0	0	0	0	-2.33	-2.33	1	1	0	1200	1200	0
3/12/2025 21:21	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:21	54502	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 21:21	44201	POIN_T1	0	0	0	0	0	0	-2.34	-2.33	1	1	0	1200	1200	0
3/12/2025 21:21	62605	ENGL_T1	1	0	-1	3.8	0	-3.8	-3.76	-3.8	0	0	0	0	0	0
3/12/2025 21:21	52004	LING_T2	3	3	0	4.5	4.5	0	0.09	0.09	0	0	0	0	0	0
3/12/2025 21:21	57402	SPAN_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
3/12/2025 21:21	67401	WAKE_T2	3	5	2	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 21:21	63501	HEID_TBK1-2	11	18	7	0.25	0.24	-0.01	0.38	0.34	0	0	0	0	0	0
3/12/2025 21:21	52403	GRPA_T2	0	3	3	0	0.5	0.5	-0.55	-0.66	0	0	0	0	0	0
3/12/2025 21:21	46801	HEPB_T2	2	2	0	0.1	0.2	0.1	0.45	0.46	0	0	0	0	0	0
3/12/2025 21:21	40504	CRES_T1	2	11	9	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 21:21	54501	ENOL_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/12/2025 21:21	55101	WERT_T1	0	0	0	0	0	0	-1.04	-1.04	1	1	0	900	900	0
3/12/2025 21:21	66505	SMAN_T2	3	3	0	1.93	2.13	0.2	0	0	0	0	0	0	0	0
3/12/2025 21:21	66501	SMAN_T2	23	25	2	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
3/12/2025 21:21	45501	DERR_T2	1	2	1	0.1	0	-0.1	0.22	0.17	2	2	0	1800	1800	0
3/12/2025 21:21	52006	LING_T2	2	2	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:21	52002	LING_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:21	52502	PROG_T2	0	0	0	0	0	0	-0.79	-0.78	1	1	0	900	900	0
3/12/2025 21:21	46506	LOHA_T1	3	3	0	3.53	3.83	0.3	-0.22	-0.22	0	0	0	0	0	0
3/12/2025 21:21	44502	HAMI_T2	1	1	0	3.4	3.2	-0.2	0	0	0	0	0	0	0	0
3/12/2025 21:21	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:21	43802	SWIL_T1	0	0	0	0	0	0	-0.24	-0.26	1	1	0	600	600	0
3/12/2025 21:21	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:21	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/12/2025 21:21	59201	THOM_T1	15	21	6	0.35	0.49	0.14	0	0	0	0	0	0	0	0
3/12/2025 21:21	52401	GRPA_T2	0	25	25	0	0.14	0.14	0	0	0	0	0	0	0	0
3/12/2025 21:21	40505	CRES_T1	0	0	0	0	0	0	0.3	0.32	0	0	0	0	0	0
3/12/2025 21:21	20403	ASHF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:21	51102	CARL_T1	13	42	29	0.15	0.16	0.01	0	0	0	0	0	0	0	0
3/12/2025 21:21	66502	SMAN_T2	4	3	-1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/12/2025 21:21	61704	ELIZ_T2	4	5	1	0.28	0.48	0.2	0	0	0	0	0	0	0	0
3/12/2025 21:21	59202	THOM_T1	96	279	183	0.21	0.34	0.13	0	0	0	0	0	0	0	0
3/12/2025 21:21	43304	WATS_T2	0	0	0	0	0	0	1.18	1.2	0	0	0	0	0	0
3/12/2025 21:21	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.72	-0.73	0	0	0	0	0	0
3/12/2025 21:21	41301	FISH_T1	6	6	0	0.7	0.68	-0.02	0.34	0.34	0	0	0	0	0	0
3/12/2025 21:21	50501	MECH_T1	105	105	0	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/12/2025 21:21	44801	EDAN_T2	0	2	2	0	0.7	0.7	-0.48	-0.47	0	0	0	0	0	0
3/12/2025 21:21	67402	WAKE_T2	0	0	0	0	0	0	0.1	0.13	0	0	0	0	0	0
3/12/2025 21:21	20401	ASHF_T2	8	8	0	0.36	0.47	0.11	0	0	0	0	0	0	0	0
3/12/2025 21:21	43801	SWIL_T1	2	2	0	3.2	3.15	-0.05	0	0	0	0	0	0	0	0
3/12/2025 21:21	51101	CARL_T1	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
3/12/2025 21:21	58401	MORO_T1	0	0	0	0	0	0	-1.34	-1.32	1	1	0	600	600	0
3/12/2025 21:21	42701	AUGU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:21	53501	EVIL_T2	2	2	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:21	42301	MOWR_T2	0	0	0	0	0	0	-0.82	-0.78	0	0	0	0	0	0
3/12/2025 21:21	42302	MOWR_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
3/12/2025 21:21	40101	HUNT_T2	0	0	0	0	0	0	-1.72	-1.75	0	0	0	0	0	0
3/12/2025 21:21	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:21	53901	HALI_T2	2	2	0	0.6	0.55	-0.05	-1.05	-1.1	0	0	0	0	0	0
3/12/2025 21:21	53902	HALI_T2	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:21	41001	LAUR_T2	59	44	-15	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
3/12/2025 21:21	55002	NEWP_T1	2	2	0	0.1	0.2	0.1	-0.25	-0.25	0	0	0	0	0	0
3/12/2025 21:21	44202	POIN_T2	0	0	0	0	0	0	-0.59	-0.59	1	1	0	1200	1200	0
3/12/2025 21:21	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
3/12/2025 21:21	51107	CARL_T1	1	34	33	0.1	0.24	0.14	0	0	0	0	0	0	0	0
3/12/2025 21:21	50504	MECH_T1	48	87	39	0.12	0.14	0.02	0	0	0	0	0	0	0	0
3/12/2025 21:21	61702	ELIZ_T2	0	0	0	0	0	0	-0.89	-0.89	1	1	0	300	300	0
3/12/2025 21:21	43202	MVIL_T2	82	86	4	0.65	0.59	-0.06	-0.68	-0.72	0	0	0	0	0	0
3/12/2025 21:21	46803	HEPB_T2	0	0	0	0	0	0	0.41	0.45	0	0	0	0	0	0
3/12/2025 21:21	59402	RFLD_T2	0	0	0	0	0	0	-0.96	-0.94	1	1	0	450	450	0
3/12/2025 21:21	50502	MECH_T1	5	5	0	0.94	1.1	0.16	0	0	0	0	0	0	0	0
3/12/2025 21:21	67002	STHI_T2	0	0	0	0	0	0	0.92	0.92	0	0	0	0	0	0
3/12/2025 21:21	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/12/2025 21:22	52403	GRPA_T2	0	3	3	0	0.5	0.5	-0.66	-0.66	0	0	0	0	0	0
3/12/2025 21:22	52401	GRPA_T2	0	25	25	0	0.14	0.14	0	0	0	0	0	0	0	0
3/12/2025 21:22	61301	EARL_T1	0	0	0	0	0	0	0.13	0.14	0	0	0	0	0	0
3/12/2025 21:22	57205	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:22	50506	MECH_T1	8	18	10	0.1	0.11	0.01	-0.2	-0.15	0	0	0	0	0	0
3/12/2025 21:22	58401	MORO_T1	0	0	0	0	0	0	-3.96	-4.02	3	3	0	1800	1800	0
3/12/2025 21:22	57201	ROSS_T1	10	13	3	0.18	0.15	-0.03	-0.58	-0.69	0	0	0	0	0	0
3/12/2025 21:22	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:22	61303	EARL_T1	4	32	28	0.38	0.19	-0.19	0	0	0	0	0	0	0	0
3/12/2025 21:22	43304	WATS_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
3/12/2025 21:22	63602	LETO_T1	0	0	0	0	0	0	-0.64	-0.68	0	0	0	0	0	0
3/12/2025 21:22	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.72	-0.73	0	0	0	0	0	0
3/12/2025 21:22	65503	MOJO_T2	11	10	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 21:22	65901	SAKR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:22	66505	SMAN_T2	3	3	0	1.93	2.13	0.2	0	0	0	0	0	0	0	0
3/12/2025 21:22	50502	MECH_T1	5	5	0	0.94	1.1	0.16	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/12/2025 21:22	66501	SMAN_T2	23	25	2	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
3/12/2025 21:22	15104	UPHA_T2	0	0	0	0	0	0	0.3	0.33	0	0	0	0	0	0
3/12/2025 21:22	40504	CRES_T1	2	11	9	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 21:22	43202	MVIL_T2	82	86	4	0.65	0.59	-0.06	-1.36	-1.44	0	0	0	0	0	0
3/12/2025 21:22	54502	ENOL_T2	1	1	0	1	1.2	0.2	0	0	0	0	0	0	0	0
3/12/2025 21:22	61306	EARL_T1	226	272	46	0.26	0.38	0.12	0	0	0	0	0	0	0	0
3/12/2025 21:22	44201	POIN_T1	0	0	0	0	0	0	-4.69	-4.67	2	2	0	2400	2400	0
3/12/2025 21:22	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:22	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:22	66502	SMAN_T2	4	3	-1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/12/2025 21:22	50505	MECH_T1	0	0	0	0	0	0	-0.95	-0.91	0	0	0	0	0	0
3/12/2025 21:22	50501	MECH_T1	105	105	0	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/12/2025 21:22	63601	LETO_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/12/2025 21:22	65904	SAKR_T2	0	0	0	0	0	0	-1.75	-1.74	2	2	0	900	900	0
3/12/2025 21:22	66503	SMAN_T2	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 21:22	40505	CRES_T1	0	0	0	0	0	0	0.9	0.96	0	0	0	0	0	0
3/12/2025 21:22	52101	MEIS_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:22	40602	PIGR_T1	0	0	0	0	0	0	0.42	0.45	0	0	0	0	0	0
3/12/2025 21:22	11301	EMMA_T1	0	0	0	0	0	0	-0.96	-0.97	0	0	0	0	0	0
3/12/2025 21:22	65502	MOJO_T2	208	200	-8	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
3/12/2025 21:22	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	-1.43	-1.39	1	1	0	600	600	0
3/12/2025 21:22	61304	EARL_T1	551	846	295	0.46	0.47	0.01	-0.33	-0.41	0	0	0	0	0	0
3/12/2025 21:22	50504	MECH_T1	48	87	39	0.12	0.14	0.02	0	0	0	0	0	0	0	0
3/12/2025 21:22	44301	BEAV_T2	0	0	0	0	0	0	-0.07	0.06	1	1	0	600	600	0
3/12/2025 21:22	52402	GRPA_T2	3	4	1	0.93	0.88	-0.05	0	0	0	0	0	0	0	0
3/12/2025 21:22	40601	PIGR_T1	0	33	33	0	0.13	0.13	0	0	0	0	0	0	0	0
3/12/2025 21:22	65903	SAKR_T2	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
3/12/2025 21:23	57401	SPAN_T1	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
3/12/2025 21:23	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:23	41202	KENM_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:23	58402	MORO_T1	0	0	0	0	0	0	0.35	0.22	1	1	0	900	900	0
3/12/2025 21:23	57201	ROSS_T1	10	13	3	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
3/12/2025 21:23	67001	STHI_T2	1	1	0	0.1	0.1	0	0.02	0.02	0	0	0	0	0	0
3/12/2025 21:23	50502	MECH_T1	5	5	0	0.94	1.1	0.16	0	0	0	0	0	0	0	0
3/12/2025 21:23	61304	EARL_T1	551	846	295	0.46	0.47	0.01	-0.66	-0.82	0	0	0	0	0	0
3/12/2025 21:23	61801	EELI_T2	0	1	1	0	0.1	0.1	-0.54	-0.57	0	0	0	0	0	0
3/12/2025 21:23	66501	SMAN_T2	23	25	2	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
3/12/2025 21:23	67604	WARW_T1	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
3/12/2025 21:23	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:23	67605	WARW_T1	27	34	7	0.49	0.5	0.01	-0.93	-0.97	0	0	0	0	0	0
3/12/2025 21:23	67605	WARW_T1	27	34	7	0.49	0.5	0.01	-0.93	-0.97	0	0	0	0	0	0
3/12/2025 21:23	67605	WARW_T1	27	34	7	0.49	0.5	0.01	-0.93	-0.97	0	0	0	0	0	0
3/12/2025 21:23	67605	WARW_T1	27	34	7	0.49	0.5	0.01	-0.93	-0.97	0	0	0	0	0	0
3/12/2025 21:23	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/12/2025 21:23	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:23	57205	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:23	55002	NEWP_T1	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:23	43202	MVIL_T2	82	86	4	0.65	0.59	-0.06	-0.68	-0.72	0	0	0	0	0	0
3/12/2025 21:23	66505	SMAN_T2	3	3	0	1.93	2.13	0.2	0	0	0	0	0	0	0	0
3/12/2025 21:23	52403	GRPA_T2	0	3	3	0	0.5	0.5	-0.66	-0.66	0	0	0	0	0	0
3/12/2025 21:23	44802	EDAN_T2	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
3/12/2025 21:23	61303	EARL_T1	4	32	28	0.38	0.19	-0.19	0	0	0	0	0	0	0	0
3/12/2025 21:23	50506	MECH_T1	8	18	10	0.1	0.11	0.01	-0.2	-0.15	0	0	0	0	0	0
3/12/2025 21:23	46506	LOHA_T1	3	3	0	3.53	3.83	0.3	-0.22	-0.22	0	0	0	0	0	0
3/12/2025 21:23	40504	CRES_T1	2	11	9	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 21:23	40601	PIGR_T1	0	33	33	0	0.13	0.13	-0.22	-0.27	0	0	0	0	0	0
3/12/2025 21:23	52401	GRPA_T2	0	25	25	0	0.14	0.14	0	0	0	0	0	0	0	0
3/12/2025 21:23	59402	RFLD_T2	0	0	0	0	0	0	-0.94	-0.95	1	1	0	450	450	0
3/12/2025 21:23	61306	EARL_T1	226	272	46	0.26	0.38	0.12	0	0	0	0	0	0	0	0
3/12/2025 21:23	41001	LAUR_T2	59	44	-15	0.2	0.14	-0.06	0	0	0	0	0	0	0	0
3/12/2025 21:23	40505	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:23	66504	SMAN_T2	1	0	-1	0.1	0	-0.1	-0.72	-0.73	0	0	0	0	0	0
3/12/2025 21:23	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:23	55001	NEWP_T1	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
3/12/2025 21:23	52402	GRPA_T2	3	4	1	0.93	0.88	-0.05	0	0	0	0	0	0	0	0
3/12/2025 21:23	44302	BEAV_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
3/12/2025 21:23	66503	SMAN_T2	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/12/2025 21:23	52101	MEIS_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:23	50504	MECH_T1	48	87	39	0.12	0.14	0.02	0	0	0	0	0	0	0	0
3/12/2025 21:23	45801	HEGI_T1	0	0	0	0	0	0	-0.27	-0.29	1	1	0	900	900	0
3/12/2025 21:23	43304	WATS_T2	0	0	0	0	0	0	1.77	1.79	0	0	0	0	0	0
3/12/2025 21:23	67901	WNHO_T2	73	74	1	0.38	0.43	0.05	-0.42	-0.44	1	1	0	900	900	0
3/12/2025 21:23	44201	POIN_T1	0	0	0	0	0	0	-2.34	-2.33	1	1	0	1200	1200	0
3/12/2025 21:23	58401	MORO_T1	0	0	0	0	0	0	-1.32	-1.34	1	1	0	600	600	0
3/12/2025 21:23	53501	EVIL_T2	2	2	0	0.4	0.5	0.1	-0.81	-0.79	1	1	0	600	600	0
3/12/2025 21:23	44801	EDAN_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
3/12/2025 21:23	66502	SMAN_T2	4	3	-1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/12/2025 21:23	41002	LAUR_T2	18	10	-8	0.34	0.39	0.05	0	0	0	0	0	0	0	0
3/12/2025 21:23	66401	ROBE_T1	318	311	-7	0.82	0.59	-0.23	0	0	1	1	0	600	600	0
3/12/2025 21:23	45501	DERR_T2	1	2	1	0.1	0	-0.1	0.22	0.17	2	2	0	1800	1800	0
3/12/2025 21:23	66402	ROBE_T1	150	143	-7	0.81	0.56	-0.25	0	0	0	0	0	0	0	0
3/12/2025 21:23	63501	HEID_TBK1-2	11	18	7	0.25	0.24	-0.01	0.38	0.34	0	0	0	0	0	0
3/12/2025 21:23	50501	MECH_T1	105	105	0	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/12/2025 21:23	64101	REFR_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
3/12/2025 21:24	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:24	57401	SPAN_T1	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
3/12/2025 21:24	46506	LOHA_T1	3	3	0	3.53	3.83	0.3	0	0	0	0	0	0	0	0
3/12/2025 21:24	58401	MORO_T1	0	0	0	0	0	0	-3.96	-4.02	3	3	0	1800	1800	0
3/12/2025 21:24	63804	HEMP_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
3/12/2025 21:24	63802	HEMP_T1	0	0	0	0	0	0	0.09	0.03	0	0	0	0	0	0
3/12/2025 21:24	67606	WARW_T1	27	34	7	0.49	0.5	0.01	-0.93	-0.97	0	0	0	0	0	0
3/12/2025 21:24	61306	EARL_T1	226	272	46	0.26	0.38	0.12	0	0	0	0	0	0	0	0
3/12/2025 21:24	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:24	59202	THOM_T1	96	279	183	0.21	0.34	0.13	0	0	0	0	0	0	0	0
3/12/2025 21:24	42302	MOWR_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
3/12/2025 21:24	59201	THOM_T1	15	21	6	0.35	0.49	0.14	0	0	0	0	0	0	0	0
3/12/2025 21:24	61303	EARL_T1	4	32	28	0.38	0.19	-0.19	0.21	0.18	0	0	0	0	0	0
3/12/2025 21:24	61304	EARL_T1	551	846	295	0.46	0.47	0.01	0	0	0	0	0	0	0	0
3/12/2025 21:24	57403	SPAN_T1	0	0	0	0	0	0	-0.16	-0.16	0	0	0	0	0	0
3/12/2025 21:24	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/12/2025 21:24	44201	POIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:24	54502	ENOL_T2	1	1	0	1	1.2	0.2	-2.07	-2.09	1	1	0	600	600	0
3/12/2025 21:24	53501	EVIL_T2	2	2	0	0.4	0.5	0.1	-0.81	-0.79	1	1	0	600	600	0
3/12/2025 21:24	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:24	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:24	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:25	57201	ROSS_T1	10	13	3	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
3/12/2025 21:25	54502	ENOL_T2	1	1	0	1	1.2	0.2	-2.07	-2.09	1	1	0	600	600	0
3/12/2025 21:25	58401	MORO_T1	0	0	0	0	0	0	-2.64	-2.68	2	2	0	1200	1200	0
3/12/2025 21:25	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:25	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/12/2025 21:25	50502	MECH_T1	5	5	0	0.94	1.1	0.16	0	0	0	0	0	0	0	0
3/12/2025 21:25	50501	MECH_T1	105	105	0	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/12/2025 21:25	50504	MECH_T1	48	87	39	0.12	0.14	0.02	0	0	0	0	0	0	0	0
3/12/2025 21:25	44202	POIN_T2	0	0	0	0	0	0	-0.59	-0.59	1	1	0	1200	1200	0
3/12/2025 21:25	67605	WARW_T1	27	34	7	0.49	0.5	0.01	0	0	0	0	0	0	0	0
3/12/2025 21:25	45501	DERR_T2	1	2	1	0.1	0	-0.1	0.22	0.17	2	2	0	1800	1800	0
3/12/2025 21:25	43304	WATS_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
3/12/2025 21:25	53501	EVIL_T2	2	2	0	0.4	0.5	0.1	-0.81	-0.79	1	1	0	600	600	0
3/12/2025 21:25	51306	WIND_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
3/12/2025 21:25	50506	MECH_T1	8	18	10	0.1	0.11	0.01	0	0	0	0	0	0	0	0
3/12/2025 21:25	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:26	46506	LOHA_T1	3	3	0	3.53	3.83	0.3	0	0	0	0	0	0	0	0
3/12/2025 21:26	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:26	16102	BING_T2	1	0	-1	6.9	0	-6.9	0	0	0	0	0	0	0	0
3/12/2025 21:26	16103	BING_T2	0	0	0	0	0	0	-1.2	-1.19	2	2	0	1500	1500	0
3/12/2025 21:26	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:26	52403	GRPA_T2	0	3	3	0	0.5	0.5	0	0	0	0	0	0	0	0
3/12/2025 21:26	52401	GRPA_T2	0	25	25	0	0.14	0.14	0	0	0	0	0	0	0	0
3/12/2025 21:26	44802	EDAN_T2	0	0	0	0	0	0	-1.01	-1	0	0	0	0	0	0
3/12/2025 21:26	52402	GRPA_T2	3	4	1	0.93	0.88	-0.05	0	0	0	0	0	0	0	0
3/12/2025 21:26	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:26	44801	EDAN_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
3/12/2025 21:27	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:27	51904	COPA_T1	5	5	0	1.58	1.36	-0.22	0	0	0	0	0	0	0	0
3/12/2025 21:27	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
3/12/2025 21:27	41202	KENM_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:27	46501	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:27	58401	MORO_T1	0	0	0	0	0	0	-1.32	-1.34	1	1	0	600	600	0
3/12/2025 21:27	46506	LOHA_T1	3	3	0	3.53	3.83	0.3	0	0	0	0	0	0	0	0
3/12/2025 21:27	52402	GRPA_T2	3	4	1	0.93	0.88	-0.05	0	0	0	0	0	0	0	0
3/12/2025 21:27	41204	KENM_T2	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
3/12/2025 21:27	51906	COPA_T1	0	0	0	0	0	0	-0.6	-0.61	1	1	0	900	900	0
3/12/2025 21:27	52403	GRPA_T2	0	3	3	0	0.5	0.5	-0.66	-0.66	0	0	0	0	0	0
3/12/2025 21:27	46504	LOHA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/12/2025 21:27	52401	GRPA_T2	0	25	25	0	0.14	0.14	0	0	0	0	0	0	0	0
3/12/2025 21:28	53903	HALI_T2	2	2	0	1.6	1.7	0.1	-0.18	-0.19	0	0	0	0	0	0
3/12/2025 21:28	53901	HALI_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
3/12/2025 21:28	40101	HUNT_T2	0	0	0	0	0	0	-1.72	-1.75	0	0	0	0	0	0
3/12/2025 21:28	45501	DERR_T2	1	2	1	0.1	0	-0.1	0.22	0.17	2	2	0	1800	1800	0
3/12/2025 21:28	53902	HALI_T2	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:28	47203	FAXO_T2	0	0	0	0	0	0	-0.48	-0.46	0	0	0	0	0	0
3/12/2025 21:29	52403	GRPA_T2	0	3	3	0	0.5	0.5	-0.66	-0.66	0	0	0	0	0	0
3/12/2025 21:29	53102	WTWN_T1	0	0	0	0	0	0	-1.91	-1.93	0	0	0	0	0	0
3/12/2025 21:29	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/12/2025 21:29	44302	BEAV_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
3/12/2025 21:29	52401	GRPA_T2	0	25	25	0	0.14	0.14	0	0	0	0	0	0	0	0
3/12/2025 21:29	52402	GRPA_T2	3	4	1	0.93	0.88	-0.05	0	0	0	0	0	0	0	0
3/12/2025 21:35	24105	EHAZ_T1	4	4	0	5.93	5.65	-0.28	0	0	0	0	0	0	0	0
3/12/2025 21:35	44202	POIN_T2	0	0	0	0	0	0	-0.59	-0.59	1	1	0	1200	1200	0
3/12/2025 21:35	24101	EHAZ_T1	6	0	-6	0.35	0	-0.35	0	0	0	0	0	0	0	0
3/12/2025 21:35	24102	EHAZ_T1	6	6	0	1.38	3.2	1.82	0.21	0.17	0	0	0	0	0	0
3/12/2025 21:36	15203	SFAR_T2	0	0	0	0	0	0	-1.43	-1.44	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/12/2025 21:43	51305	WIND_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
3/12/2025 21:44	51302	WIND_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
3/12/2025 21:49	20603	GRWO_T2	74	45	-29	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
3/12/2025 21:49	20601	GRWO_T2	0	1	1	0	0.1	0.1	1.02	1.01	0	0	0	0	0	0
3/12/2025 21:54	40201	BEGA_T2	11	13	2	0.29	0.48	0.19	0	0	0	0	0	0	0	0
3/12/2025 22:02	44301	BEAV_T2	0	0	0	0	0	0	0.03	-0.17	1	1	0	600	600	0
3/12/2025 22:12	42302	MOWR_T2	0	0	0	0	0	0	0.42	0.42	0	0	0	0	0	0
3/12/2025 22:14	16102	BING_T2	0	0	0	0	0	0	0.73	0.72	0	0	0	0	0	0
3/12/2025 22:32	57203	ROSS_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
3/12/2025 22:36	21504	CEAV_T1	0	0	0	0	0	0	1.16	1.15	0	0	0	0	0	0
3/12/2025 23:00	60404	DILL_T2	0	0	0	0	0	0	0.59	0.67	0	0	0	0	0	0
3/12/2025 23:28	59202	THOM_T1	212	253	41	0.2	0.26	0.06	0	0	0	0	0	0	0	0
3/12/2025 23:28	59201	THOM_T1	19	21	2	0.25	0.35	0.1	0	0	0	0	0	0	0	0
3/13/2025 1:00	50623	CCTY_T2	6	6	0	6.3	6.23	-0.07	0	0	0	0	0	0	0	0
3/13/2025 1:00	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 1:00	50624	CCTY_T2	2	2	0	6.7	6.45	-0.25	0	0	0	0	0	0	0	0
3/13/2025 1:00	50625	CCTY_T2	3	4	1	7.23	5.3	-1.93	0	0	0	0	0	0	0	0
3/13/2025 1:12	42301	MOWR_T2	0	0	0	0	0	0	-0.86	-0.82	0	0	0	0	0	0
3/13/2025 1:17	52403	GRPA_T2	1	1	0	0.3	0.4	0.1	-0.66	-0.66	0	0	0	0	0	0
3/13/2025 1:39	23201	HIRU_T2	0	1	1	0	0.1	0.1	0.14	0.14	0	0	0	0	0	0
3/13/2025 2:03	44801	EDAN_T2	0	0	0	0	0	0	-0.5	-0.52	0	0	0	0	0	0
3/13/2025 8:20	23401	HONE_T2	13	1	-12	0.42	0	-0.42	-0.04	-0.06	0	0	0	0	0	0
3/13/2025 8:30	45502	DERR_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/13/2025 8:30	45501	DERR_T2	0	0	0	0	0	0	1	0.84	4	4	0	3600	3600	0
3/13/2025 8:42	14801	TREI_T2	0	2	2	0	0.15	0.15	0.55	0.5	0	0	0	0	0	0
3/13/2025 8:46	20601	GRWO_T2	1	1	0	0.9	0.2	-0.7	0.78	0.75	0	0	0	0	0	0
3/13/2025 8:59	53501	EVIL_T2	3	2	-1	0.57	1.05	0.48	0	0	0	0	0	0	0	0
3/13/2025 8:59	46204	DANV_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/13/2025 8:59	46203	DANV_T2	110	187	77	0.49	0.59	0.1	-2.04	-1.89	0	0	0	0	0	0
3/13/2025 8:59	46206	DANV_T2	4	3	-1	0.7	0.7	0	2.99	3	1	1	0	1200	1200	0
3/13/2025 9:00	21203	ECAR_T1	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
3/13/2025 9:01	46206	DANV_T2	1	3	2	0.9	0.6	-0.3	2.99	3	1	1	0	1200	1200	0
3/13/2025 9:01	46203	DANV_T2	182	209	27	0.57	0.73	0.16	0	0	0	0	0	0	0	0
3/13/2025 9:01	46204	DANV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 9:02	46206	DANV_T2	1	3	2	0.9	0.6	-0.3	2.99	3	1	1	0	1200	1200	0
3/13/2025 9:02	46204	DANV_T2	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 9:02	46203	DANV_T2	182	209	27	0.57	0.73	0.16	0	0	0	0	0	0	0	0
3/13/2025 9:02	53501	EVIL_T2	2	2	0	0.75	1.05	0.3	0	0	0	0	0	0	0	0
3/13/2025 9:05	55002	NEWP_T1	6	5	-1	0.77	0.62	-0.15	0	0	0	0	0	0	0	0
3/13/2025 9:05	55001	NEWP_T1	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
3/13/2025 9:08	54601	SUMM_T2	1	4	3	0.6	0.63	0.03	-1.86	-1.88	2	2	0	2100	2100	0
3/13/2025 9:09	64101	REFR_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
3/13/2025 9:17	63501	HEID_TBK1-2	1	3	2	0.2	0.27	0.07	0.24	0.17	2	2	0	1800	1800	0
3/13/2025 9:19	65502	MOJO_T2	0	0	0	0	0	0	-0.46	-0.37	0	0	0	0	0	0
3/13/2025 9:19	65503	MOJO_T2	0	1	1	0	0	0	0.12	0.06	0	0	0	0	0	0
3/13/2025 9:19	23401	HONE_T2	0	1	1	0	0	0	-0.05	-0.13	0	0	0	0	0	0
3/13/2025 9:19	63501	HEID_TBK1-2	1	3	2	0.2	0.27	0.07	0.12	0.09	1	1	0	900	900	0
3/13/2025 9:21	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 9:21	65503	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 9:21	63501	HEID_TBK1-2	1	3	2	0.2	0.27	0.07	0.09	0.11	1	1	0	900	900	0
3/13/2025 9:22	40601	PIGR_T1	15	201	186	0.13	0.52	0.39	0	0	0	0	0	0	0	0
3/13/2025 9:22	40602	PIGR_T1	2	6	4	0.15	0.35	0.2	0	0	0	0	0	0	0	0
3/13/2025 9:23	55101	WERT_T1	0	0	0	0	0	0	-0.98	-0.95	2	2	0	1500	1500	0
3/13/2025 9:23	65502	MOJO_T2	0	0	0	0	0	0	-0.37	-0.18	0	0	0	0	0	0
3/13/2025 9:23	65503	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 9:25	55101	WERT_T1	0	0	0	0	0	0	-0.98	-0.95	2	2	0	1500	1500	0
3/13/2025 9:25	40602	PIGR_T1	2	6	4	0.15	0.35	0.2	-0.69	-0.7	1	1	0	600	600	0
3/13/2025 9:25	40601	PIGR_T1	15	201	186	0.13	0.52	0.39	0	0	0	0	0	0	0	0
3/13/2025 9:25	40603	PIGR_T1	0	0	0	0	0	0	-0.32	-0.33	1	1	0	900	900	0
3/13/2025 9:27	40303	TAMA_T3	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/13/2025 9:27	40302	TAMA_T3	12	14	2	0.53	0.59	0.06	0	0	0	0	0	0	0	0
3/13/2025 9:27	40301	TAMA_T3	3	6	3	0.15	0.56	0.41	1.25	1.42	2	2	0	1800	1800	0
3/13/2025 9:27	55101	WERT_T1	0	0	0	0	0	0	-0.98	-0.95	2	2	0	1500	1500	0
3/13/2025 9:29	45602	WOOL_T1	0	1	1	0	0	0	0.62	0.65	0	0	0	0	0	0
3/13/2025 9:30	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/13/2025 9:30	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/13/2025 9:30	54503	ENOL_T2	0	0	0	0	0	0	-0.45	-0.47	1	1	0	600	600	0
3/13/2025 9:31	62605	ENGL_T1	0	0	0	0	0	0	-0.91	-0.94	0	0	0	0	0	0
3/13/2025 9:37	40601	PIGR_T1	151	203	52	0.28	0.52	0.24	0	0	0	0	0	0	0	0
3/13/2025 9:37	40602	PIGR_T1	6	6	0	0.35	0.32	-0.03	-0.7	-0.71	1	1	0	600	600	0
3/13/2025 9:40	67304	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 9:41	57402	SPAN_T2	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
3/13/2025 9:43	10805	CHHI_T2	1	2	1	7.6	3.75	-3.85	-0.95	-1	1	1	0	600	600	0
3/13/2025 9:45	10801	CHHI_T1	1	31	30	0.1	0.22	0.12	-1.26	-1.23	2	2	0	1500	1500	0
3/13/2025 9:48	63803	HEMP_T1	0	0	0	0	0	0	0.1	0.02	0	0	0	0	0	0
3/13/2025 9:48	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
3/13/2025 9:49	63802	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 9:49	63804	HEMP_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
3/13/2025 9:52	48301	ORWI_T1	2	2	0	5.7	5.7	0	-0.34	-0.37	1	1	0	900	900	0
3/13/2025 9:53	40601	PIGR_T1	201	184	-17	0.52	0.38	-0.14	0	0	0	0	0	0	0	0
3/13/2025 9:53	40602	PIGR_T1	3	7	4	0.3	0.33	0.03	-0.71	-0.76	1	1	0	600	600	0
3/13/2025 10:00	40101	HUNT_T2	0	0	0	0	0	0	-1.36	-1.39	0	0	0	0	0	0
3/13/2025 10:00	14801	TREI_T2	12	15	3	0.24	0.31	0.07	0	0	0	0	0	0	0	0
3/13/2025 10:00	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/13/2025 10:00	40504	CRES_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 10:00	52402	GRPA_T2	0	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0
3/13/2025 10:00	14802	TREI_T2	4	7	3	0.2	0.23	0.03	0.39	0.38	0	0	0	0	0	0
3/13/2025 10:00	40505	CRES_T1	0	1	1	0	0.1	0.1	0.23	0.26	0	0	0	0	0	0
3/13/2025 10:00	53902	HALI_T2	1	2	1	5.5	5.5	0	0	0	0	0	0	0	0	0
3/13/2025 10:00	53903	HALI_T2	2	2	0	0.7	1.4	0.7	0	0	0	0	0	0	0	0
3/13/2025 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
3/13/2025 10:00	40503	CRES_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 10:00	52403	GRPA_T2	0	1	1	0	0.2	0.2	-0.56	-0.6	0	0	0	0	0	0
3/13/2025 10:00	53901	HALI_T2	1	1	0	0.6	0.9	0.3	-1.03	-1.04	0	0	0	0	0	0
3/13/2025 10:03	62602	ENGL_T1	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
3/13/2025 10:04	47104	MARL_T1	0	0	0	0	0	0	-2.25	-2.23	0	0	0	0	0	0
3/13/2025 10:06	46102	MACI_T1	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
3/13/2025 10:07	47104	MARL_T1	0	0	0	0	0	0	-2.23	-2.3	0	0	0	0	0	0
3/13/2025 10:08	57402	SPAN_T2	0	2	2	0	0.15	0.15	-0.57	-0.57	0	0	0	0	0	0
3/13/2025 10:08	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/13/2025 10:08	54501	ENOL_T2	0	0	0	0	0	0	0.11	0.1	0	0	0	0	0	0
3/13/2025 10:08	54502	ENOL_T2	1	2	1	1	0.7	-0.3	0	0	0	0	0	0	0	0
3/13/2025 10:09	57403	SPAN_T1	0	5	5	0	0.12	0.12	0.22	0.14	0	0	0	0	0	0
3/13/2025 10:09	21201	ECAR_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 10:09	44902	SCOT_T2	356	336	-20	0.23	0.22	-0.01	-0.96	-0.93	0	0	0	0	0	0
3/13/2025 10:09	67503	WEWI_T2	0	0	0	0	0	0	-0.12	-0.06	0	0	0	0	0	0
3/13/2025 10:09	57401	SPAN_T1	2	2	0	0.85	1.25	0.4	0	0	0	0	0	0	0	0
3/13/2025 10:09	21203	ECAR_T1	4	6	2	0.15	0.18	0.03	-0.28	-0.23	0	0	0	0	0	0
3/13/2025 10:09	44901	SCOT_T2	0	1	1	0	0.2	0.2	0.18	0.61	0	0	0	0	0	0
3/13/2025 10:10	44902	SCOT_T2	356	336	-20	0.23	0.22	-0.01	-1.92	-1.86	0	0	0	0	0	0
3/13/2025 10:10	41902	REED_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/13/2025 10:10	57401	SPAN_T1	2	2	0	0.85	1.25	0.4	0	0	0	0	0	0	0	0
3/13/2025 10:10	57403	SPAN_T1	0	5	5	0	0.12	0.12	0.11	0.07	0	0	0	0	0	0
3/13/2025 10:10	44901	SCOT_T2	0	1	1	0	0.2	0.2	0.09	0.31	0	0	0	0	0	0
3/13/2025 10:10	40502	CRES_T2	5	6	1	0.16	0.17	0.01	0.16	0.16	0	0	0	0	0	0
3/13/2025 10:10	67402	WAKE_T2	0	0	0	0	0	0	0.4	0.4	1	1	0	600	600	0
3/13/2025 10:10	41901	REED_T1	3	6	3	0.17	0.25	0.08	0	0	0	0	0	0	0	0
3/13/2025 10:10	40501	CRES_T2	7	10	3	0.23	0.24	0.01	0	0	0	0	0	0	0	0
3/13/2025 10:11	57401	SPAN_T1	2	2	0	0.85	1.25	0.4	0	0	0	0	0	0	0	0
3/13/2025 10:11	57403	SPAN_T1	0	5	5	0	0.12	0.12	0.11	0.07	0	0	0	0	0	0
3/13/2025 10:12	10801	CHHI_T1	31	0	-31	0.22	0	-0.22	-0.85	-0.88	1	1	0	900	900	0
3/13/2025 10:14	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/13/2025 10:14	61304	EARL_T1	0	0	0	0	0	0	-0.05	-0.07	0	0	0	0	0	0
3/13/2025 10:14	54502	ENOL_T2	1	2	1	1	0.7	-0.3	-2.16	-2.09	1	1	0	600	600	0
3/13/2025 10:14	67402	WAKE_T2	0	0	0	0	0	0	0.4	0.4	1	1	0	600	600	0
3/13/2025 10:15	61304	EARL_T1	0	1	1	0	0.1	0.1	-0.05	-0.07	0	0	0	0	0	0
3/13/2025 10:15	54502	ENOL_T2	1	2	1	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
3/13/2025 10:15	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/13/2025 10:15	53501	EVIL_T2	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
3/13/2025 10:15	10801	CHHI_T1	0	0	0	0	0	0	-0.85	-0.88	1	1	0	900	900	0
3/13/2025 10:15	54506	ENOL_T2	0	0	0	0	0	0	-0.02	-0.03	1	1	0	600	600	0
3/13/2025 10:16	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	-2.56	-2.58	2	2	0	1200	1200	0
3/13/2025 10:16	63501	HEID_TBK1-2	2	0	-2	0.6	0	-0.6	0.16	0.03	1	1	0	900	900	0
3/13/2025 10:16	61304	EARL_T1	0	1	1	0	0.1	0.1	-0.05	-0.07	0	0	0	0	0	0
3/13/2025 10:16	23401	HONE_T2	0	0	0	0	0	0	-0.13	-0.06	0	0	0	0	0	0
3/13/2025 10:16	54502	ENOL_T2	1	2	1	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
3/13/2025 10:16	23502	GEOR_T1	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
3/13/2025 10:17	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/13/2025 10:17	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/13/2025 10:17	61304	EARL_T1	0	1	1	0	0.1	0.1	-0.05	-0.07	0	0	0	0	0	0
3/13/2025 10:17	21206	ECAR_T2	1	1	0	8	8.1	0.1	0.43	0.39	0	0	0	0	0	0
3/13/2025 10:17	52403	GRPA_T2	0	1	1	0	0.2	0.2	-0.6	-0.6	0	0	0	0	0	0
3/13/2025 10:17	53501	EVIL_T2	2	2	0	0.55	0.75	0.2	-1.17	-1.28	2	2	0	1500	1500	0
3/13/2025 10:17	52402	GRPA_T2	4	2	-2	0.2	0.55	0.35	0	0	0	0	0	0	0	0
3/13/2025 10:17	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 10:17	52404	GRPA_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 10:17	54502	ENOL_T2	1	2	1	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
3/13/2025 10:17	54503	ENOL_T2	0	0	0	0	0	0	-0.49	-0.47	1	1	0	600	600	0
3/13/2025 10:18	21206	ECAR_T2	1	1	0	8	8.1	0.1	0.43	0.39	0	0	0	0	0	0
3/13/2025 10:18	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/13/2025 10:18	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 10:18	53501	EVIL_T2	2	2	0	0.55	0.75	0.2	0	0	0	0	0	0	0	0
3/13/2025 10:18	54502	ENOL_T2	1	2	1	1.2	0.7	-0.5	-2.16	-2.09	1	1	0	600	600	0
3/13/2025 10:19	47103	MARL_T2	1	2	1	0.2	0.15	-0.05	-0.5	-0.48	0	0	0	0	0	0
3/13/2025 10:20	22601	KIMB_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/13/2025 10:20	22602	KIMB_T1	1	1	0	0.4	0.5	0.1	0.26	0.26	0	0	0	0	0	0
3/13/2025 10:20	63501	HEID_TBK1-2	2	0	-2	0.6	0	-0.6	0.16	0.03	1	1	0	900	900	0
3/13/2025 10:22	64904	MILL_T1	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
3/13/2025 10:23	50701	SMEC_T1	0	1	1	0	0.1	0.1	0.21	0.29	0	0	0	0	0	0
3/13/2025 10:24	50701	SMEC_T1	0	1	1	0	0.1	0.1	0.21	0.29	0	0	0	0	0	0
3/13/2025 10:25	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 10:26	50701	SMEC_T1	0	1	1	0	0.1	0.1	0.21	0.29	0	0	0	0	0	0
3/13/2025 10:27	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/13/2025 10:29	61304	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 10:29	54505	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/13/2025 10:29	54502	ENOL_T2	1	2	1	1.2	0.7	-0.5	-2.09	-2.12	1	1	0	600	600	0
3/13/2025 10:30	61302	EARL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/13/2025 10:30	61306	EARL_T1	0	1	1	0	0.1	0.1	0.02	0.02	0	0	0	0	0	0
3/13/2025 10:30	41801	GOCI_T2	21	249	228	0.2	0.47	0.27	0	0	0	0	0	0	0	0
3/13/2025 10:30	61304	EARL_T1	0	1	1	0	0.1	0.1	-0.15	-0.15	0	0	0	0	0	0
3/13/2025 10:30	67303	WYOM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 10:30	54502	ENOL_T2	2	1	-1	0.7	1.4	0.7	-2.09	-2.12	1	1	0	600	600	0
3/13/2025 10:30	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/13/2025 10:31	65804	RTWN_T1	0	0	0	0	0	0	0.03	0.06	1	1	0	600	600	0
3/13/2025 10:31	61302	EARL_T1	0	1	1	0	0.4	0.4	0.68	0.62	2	2	0	1800	1800	0
3/13/2025 10:31	61301	EARL_T1	0	0	0	0	0	0	0.25	0.29	0	0	0	0	0	0
3/13/2025 10:31	61306	EARL_T1	0	1	1	0	0.1	0.1	0.02	0.02	0	0	0	0	0	0
3/13/2025 10:31	61304	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 10:32	47203	FAXO_T2	0	0	0	0	0	0	-0.43	-0.42	0	0	0	0	0	0
3/13/2025 10:32	61306	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 10:32	61302	EARL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/13/2025 10:32	47901	HRDG_T1	0	0	0	0	0	0	1.69	1.76	0	0	0	0	0	0
3/13/2025 10:32	63501	HEID_TBK1-2	0	0	0	0	0	0	0.06	0.24	2	2	0	1800	1800	0
3/13/2025 10:32	41801	GOCI_T2	21	249	228	0.2	0.47	0.27	0	0	0	0	0	0	0	0
3/13/2025 10:32	61304	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 10:33	41801	GOCI_T2	21	249	228	0.2	0.47	0.27	0	0	0	0	0	0	0	0
3/13/2025 10:33	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/13/2025 10:33	54502	ENOL_T2	2	1	-1	0.7	1.4	0.7	-2.09	-2.12	1	1	0	600	600	0
3/13/2025 10:34	63501	HEID_TBK1-2	0	0	0	0	0	0	0.03	0.12	1	1	0	900	900	0
3/13/2025 10:36	63501	HEID_TBK1-2	0	0	0	0	0	0	0.03	0.12	1	1	0	900	900	0
3/13/2025 10:36	41801	GOCI_T2	21	249	228	0.2	0.47	0.27	0	0	0	0	0	0	0	0
3/13/2025 10:40	64101	REFR_T1	0	0	0	0	0	0	-0.1	-0.11	0	0	0	0	0	0
3/13/2025 10:40	50701	SMEC_T1	1	1	0	0.1	0.1	0	0.29	0.26	0	0	0	0	0	0
3/13/2025 10:41	14801	TREI_T2	12	6	-6	0.32	0.38	0.06	0.38	0.39	0	0	0	0	0	0
3/13/2025 10:41	14802	TREI_T2	5	3	-2	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
3/13/2025 10:43	14802	TREI_T2	5	3	-2	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
3/13/2025 10:43	14801	TREI_T2	12	6	-6	0.32	0.38	0.06	0.38	0.39	0	0	0	0	0	0
3/13/2025 10:44	40505	CRES_T1	1	1	0	0.1	0.3	0.2	0.26	0.27	0	0	0	0	0	0
3/13/2025 10:44	40504	CRES_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/13/2025 10:45	40502	CRES_T2	3	7	4	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
3/13/2025 10:45	40501	CRES_T2	11	13	2	0.28	0.28	0	0	0	0	0	0	0	0	0
3/13/2025 10:47	40501	CRES_T2	11	13	2	0.28	0.28	0	0	0	0	0	0	0	0	0
3/13/2025 10:47	66902	SHIL_T2	1	3	2	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
3/13/2025 10:47	61304	EARL_T1	1	20	19	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/13/2025 10:47	61306	EARL_T1	0	5	5	0	0.22	0.22	0.02	0.03	0	0	0	0	0	0
3/13/2025 10:47	40502	CRES_T2	3	7	4	0.33	0.27	-0.06	0.15	0.15	0	0	0	0	0	0
3/13/2025 10:47	61302	EARL_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
3/13/2025 10:47	66903	SHIL_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/13/2025 10:47	66901	SHIL_T2	0	2	2	0	0.2	0.2	-0.37	-0.36	0	0	0	0	0	0
3/13/2025 10:48	17802	GILB_T1	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
3/13/2025 10:48	40101	HUNT_T2	1	1	0	0.2	0.2	0	-1.26	-1.28	0	0	0	0	0	0
3/13/2025 10:49	61306	EARL_T1	0	5	5	0	0.22	0.22	0.02	0.03	0	0	0	0	0	0
3/13/2025 10:49	61302	EARL_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
3/13/2025 10:49	61304	EARL_T1	1	20	19	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/13/2025 10:50	46903	MNTG_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/13/2025 10:50	52102	MEIS_T1	0	1	1	0	0.2	0.2	0	0	1	1	0	450	450	0
3/13/2025 10:50	46901	MNTG_T2	0	0	0	0	0	0	-0.22	-0.27	1	1	0	1200	1200	0
3/13/2025 10:50	41202	KENM_T2	1	1	0	0.7	0.7	0	-0.56	-0.58	0	0	0	0	0	0
3/13/2025 10:50	52101	MEIS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/13/2025 10:51	52102	MEIS_T1	0	1	1	0	0.2	0.2	0	0	1	1	0	450	450	0
3/13/2025 10:51	52101	MEIS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/13/2025 10:51	46903	MNTG_T2	0	1	1	0	0.3	0.3	-0.65	-0.68	1	1	0	600	600	0
3/13/2025 10:52	48303	ORWI_T2	2	2	0	0.4	0.55	0.15	0.99	0.94	0	0	0	0	0	0
3/13/2025 10:52	48302	ORWI_T2	2	2	0	8.8	8.9	0.1	0	0	0	0	0	0	0	0
3/13/2025 10:53	46903	MNTG_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/13/2025 10:53	46901	MNTG_T2	0	0	0	0	0	0	-0.27	-0.51	1	1	0	1200	1200	0
3/13/2025 10:54	24204	PROV_T3	1	2	1	5.6	2.85	-2.75	0	0	0	0	0	0	0	0
3/13/2025 10:54	57404	SPAN_T2	0	0	0	0	0	0	0.29	0.24	1	1	0	1200	1200	0
3/13/2025 10:54	24201	PROV_T3	3	3	0	6.07	6	-0.07	-0.11	-0.16	0	0	0	0	0	0
3/13/2025 10:54	57402	SPAN_T2	2	13	11	0.1	0.12	0.02	-1.68	-1.68	0	0	0	0	0	0
3/13/2025 10:56	24202	PROV_T4	346	411	65	0.29	0.33	0.04	-0.81	-0.79	1	1	0	1200	1200	0
3/13/2025 10:56	24203	PROV_T4	24	33	9	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
3/13/2025 10:56	24206	PROV_T4	75	111	36	0.21	0.21	0	0	0	0	0	0	0	0	0
3/13/2025 10:57	57402	SPAN_T2	2	13	11	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/13/2025 10:58	40501	CRES_T2	11	13	2	0.28	0.28	0	0	0	0	0	0	0	0	0
3/13/2025 10:58	40502	CRES_T2	3	7	4	0.33	0.27	-0.06	0.15	0.16	0	0	0	0	0	0
3/13/2025 10:59	67605	WARW_T1	13	18	5	0.38	0.44	0.06	0	0	0	0	0	0	0	0
3/13/2025 10:59	40502	CRES_T2	3	7	4	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
3/13/2025 10:59	14802	TREI_T2	0	7	7	0	0.24	0.24	0	0	0	0	0	0	0	0
3/13/2025 10:59	14801	TREI_T2	4	33	29	0.43	0.22	-0.21	0.39	0.36	0	0	0	0	0	0
3/13/2025 10:59	11203	ELHE_T1	0	0	0	0	0	0	0.89	0.89	0	0	0	0	0	0
3/13/2025 10:59	40501	CRES_T2	11	13	2	0.28	0.28	0	0	0	0	0	0	0	0	0
3/13/2025 11:00	67605	WARW_T1	15	23	8	0.45	0.44	-0.01	0	0	0	0	0	0	0	0
3/13/2025 11:00	17401	FOHI_T1	0	0	0	0	0	0	-1.03	-1.02	0	0	0	0	0	0
3/13/2025 11:00	67603	WARW_T1	0	0	0	0	0	0	-0.01	0	0	0	0	0	0	0
3/13/2025 11:01	45501	DERR_T2	1	3	2	0.2	0.15	-0.05	0.39	0.38	2	2	0	1800	1800	0
3/13/2025 11:02	61302	EARL_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
3/13/2025 11:02	40505	CRES_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/13/2025 11:02	45501	DERR_T2	1	3	2	0.2	0.15	-0.05	0.78	0.76	4	4	0	3600	3600	0
3/13/2025 11:02	62606	ENGL_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
3/13/2025 11:02	40504	CRES_T1	1	0	-1	0.2	0	-0.2	-0.55	-0.48	0	0	0	0	0	0
3/13/2025 11:02	61304	EARL_T1	0	23	23	0	0.19	0.19	0	0	0	0	0	0	0	0
3/13/2025 11:02	61306	EARL_T1	1	7	6	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/13/2025 11:03	62601	ENGL_T1	0	0	0	0	0	0	-0.89	-0.89	0	0	0	0	0	0
3/13/2025 11:03	61302	EARL_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
3/13/2025 11:03	61306	EARL_T1	1	7	6	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/13/2025 11:03	62601	ENGL_T1	0	0	0	0	0	0	-0.04	-0.02	0	0	0	0	0	0
3/13/2025 11:03	61304	EARL_T1	0	23	23	0	0.19	0.19	-0.02	0.02	0	0	0	0	0	0
3/13/2025 11:03	45501	DERR_T2	1	3	2	0.2	0.15	-0.05	0.39	0.38	2	2	0	1800	1800	0
3/13/2025 11:04	61801	EELI_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
3/13/2025 11:04	62607	ENGL_T1	0	0	0	0	0	0	-1.15	-1.15	1	1	0	300	300	0
3/13/2025 11:04	61802	EELI_T2	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
3/13/2025 11:04	62606	ENGL_T1	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
3/13/2025 11:06	52502	PROG_T2	0	2	2	0	0.15	0.15	-0.62	-0.67	1	1	0	900	900	0
3/13/2025 11:06	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 11:07	13902	SEID_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/13/2025 11:07	13901	SEID_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 11:08	52502	PROG_T2	0	2	2	0	0.15	0.15	-0.62	-0.67	1	1	0	900	900	0
3/13/2025 11:09	65702	RVIL_T2	0	0	0	0	0	0	-2.8	-2.62	0	0	0	0	0	0
3/13/2025 11:11	67605	WARW_T1	15	23	8	0.45	0.44	-0.01	-0.82	-0.83	0	0	0	0	0	0
3/13/2025 11:32	45902	AUBU_T1	1	5	4	0.1	0.56	0.46	0	0	1	1	0	600	600	0
3/13/2025 11:33	51304	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 11:33	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 11:33	11202	ELHE_T2	0	0	0	0	0	0	0.35	0.37	1	1	0	1200	1200	0
3/13/2025 11:33	10703	CATA_T2	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
3/13/2025 11:33	10702	CATA_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/13/2025 11:33	10705	CATA_T2	1	1	0	2.1	1.3	-0.8	0.01	0.01	0	0	0	0	0	0
3/13/2025 11:33	61001	DONV_T1	0	1	1	0	0.1	0.1	-0.25	-0.28	0	0	0	0	0	0
3/13/2025 11:33	51306	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 11:33	10707	CATA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/13/2025 11:33	18001	ZION_T1	1	3	2	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/13/2025 11:34	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 11:34	44801	EDAN_T2	2	4	2	0.8	0.6	-0.2	-0.83	-0.84	0	0	0	0	0	0
3/13/2025 11:34	67303	WYOM_T2	0	1	1	0	0.2	0.2	0.36	0.36	0	0	0	0	0	0
3/13/2025 11:35	54505	ENOL_T2	1	2	1	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
3/13/2025 11:35	40505	CRES_T1	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
3/13/2025 11:35	54504	ENOL_T2	0	0	0	0	0	0	-1.1	-1.1	1	1	0	600	600	0
3/13/2025 11:35	67303	WYOM_T2	0	1	1	0	0.2	0.2	0.36	0.36	0	0	0	0	0	0
3/13/2025 11:35	54502	ENOL_T2	1	12	11	1.5	0.22	-1.28	0	0	0	0	0	0	0	0
3/13/2025 11:35	40504	CRES_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/13/2025 11:36	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 11:36	54502	ENOL_T2	1	12	11	1.5	0.22	-1.28	0	0	0	0	0	0	0	0
3/13/2025 11:36	54505	ENOL_T2	1	2	1	0.9	0.7	-0.2	-1.34	-1.36	1	1	0	600	600	0
3/13/2025 11:37	54505	ENOL_T2	1	2	1	0.9	0.7	-0.2	-1.34	-1.36	1	1	0	600	600	0
3/13/2025 11:37	65803	RTWN_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/13/2025 11:37	54502	ENOL_T2	1	12	11	1.5	0.22	-1.28	0	0	0	0	0	0	0	0
3/13/2025 11:37	65802	RTWN_T2	0	1	1	0	0.9	0.9	-0.22	-0.22	0	0	0	0	0	0
3/13/2025 11:37	54501	ENOL_T2	0	0	0	0	0	0	0.1	0.09	0	0	0	0	0	0
3/13/2025 11:38	43202	MVIL_T2	5	47	42	0.24	0.24	0	-0.61	-0.62	0	0	0	0	0	0
3/13/2025 11:38	57205	ROSS_T1	3	3	0	0.5	0.53	0.03	0.15	0.12	0	0	0	0	0	0
3/13/2025 11:38	41305	FISH_T1	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
3/13/2025 11:38	57201	ROSS_T1	26	36	10	0.26	0.27	0.01	0	0	0	0	0	0	0	0
3/13/2025 11:38	41301	FISH_T1	3	3	0	1.93	2.17	0.24	0	0	0	0	0	0	0	0
3/13/2025 11:38	43201	MVIL_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/13/2025 11:38	57203	ROSS_T1	0	2	2	0	0.1	0.1	0.36	0.36	0	0	0	0	0	0
3/13/2025 11:39	67402	WAKE_T2	0	0	0	0	0	0	0.39	0.37	1	1	0	600	600	0
3/13/2025 11:39	57203	ROSS_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 11:39	57201	ROSS_T1	26	36	10	0.26	0.27	0.01	-0.44	-0.47	0	0	0	0	0	0
3/13/2025 11:39	57205	ROSS_T1	3	3	0	0.5	0.53	0.03	0.15	0.12	0	0	0	0	0	0
3/13/2025 11:40	57201	ROSS_T1	26	36	10	0.26	0.27	0.01	-0.44	-0.47	0	0	0	0	0	0
3/13/2025 11:40	57203	ROSS_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 11:40	57205	ROSS_T1	3	3	0	0.5	0.53	0.03	0	0	0	0	0	0	0	0
3/13/2025 11:42	14802	TREI_T2	4	13	9	0.2	0.24	0.04	0.36	0.36	0	0	0	0	0	0
3/13/2025 11:42	14801	TREI_T2	9	64	55	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
3/13/2025 11:44	51303	WIND_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/13/2025 11:44	51306	WIND_T2	0	1	1	0	0.1	0.1	0.13	0.16	0	0	0	0	0	0
3/13/2025 11:44	51305	WIND_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/13/2025 11:44	51301	WIND_T1	0	5	5	0	0.26	0.26	0.35	0.33	0	0	0	0	0	0
3/13/2025 11:44	43402	BENT_T1	3	5	2	0.6	0.6	0	-0.82	-0.83	1	1	0	900	900	0
3/13/2025 11:44	51304	WIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 11:45	51303	WIND_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
3/13/2025 11:45	44801	EDAN_T2	2	6	4	0.9	0.57	-0.33	0	0	0	0	0	0	0	0
3/13/2025 11:45	51301	WIND_T1	1	7	6	0.2	0.39	0.19	0	0	0	0	0	0	0	0
3/13/2025 11:45	51305	WIND_T1	1	3	2	0.3	0.47	0.17	0.22	0.19	0	0	0	0	0	0
3/13/2025 11:46	51305	WIND_T1	1	3	2	0.3	0.47	0.17	0	0	0	0	0	0	0	0
3/13/2025 11:46	43402	BENT_T1	5	3	-2	0.6	0.77	0.17	-0.82	-0.83	1	1	0	900	900	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/13/2025 11:46	51303	WIND_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
3/13/2025 11:46	51301	WIND_T1	1	7	6	0.2	0.39	0.19	0	0	0	0	0	0	0	0
3/13/2025 11:49	62605	ENGL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 11:49	62607	ENGL_T1	0	2	2	0	0.2	0.2	-1.19	-1.15	1	1	0	300	300	0
3/13/2025 11:49	62604	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 11:50	51303	WIND_T1	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
3/13/2025 11:50	41002	LAUR_T2	50	56	6	0.33	0.5	0.17	0	0	0	0	0	0	0	0
3/13/2025 11:50	51301	WIND_T1	1	7	6	0.2	0.39	0.19	0	0	0	0	0	0	0	0
3/13/2025 11:50	51305	WIND_T1	1	3	2	0.3	0.47	0.17	0	0	0	0	0	0	0	0
3/13/2025 11:50	41001	LAUR_T2	73	84	11	0.41	0.62	0.21	0	0	0	0	0	0	0	0
3/13/2025 11:50	55002	NEWP_T1	7	8	1	0.64	1.18	0.54	-0.25	-0.25	0	0	0	0	0	0
3/13/2025 11:50	55001	NEWP_T1	1	4	3	0.1	0.38	0.28	-0.46	-0.46	0	0	0	0	0	0
3/13/2025 11:51	55001	NEWP_T1	1	4	3	0.1	0.38	0.28	-0.46	-0.46	0	0	0	0	0	0
3/13/2025 11:51	55002	NEWP_T1	7	8	1	0.64	1.18	0.54	0	0	0	0	0	0	0	0
3/13/2025 11:52	57203	ROSS_T1	1	1	0	0.1	0.1	0	0.36	0.37	0	0	0	0	0	0
3/13/2025 11:52	57205	ROSS_T1	3	4	1	0.53	0.63	0.1	0	0	0	0	0	0	0	0
3/13/2025 11:52	57201	ROSS_T1	35	37	2	0.26	0.27	0.01	0	0	0	0	0	0	0	0
3/13/2025 11:53	57203	ROSS_T1	1	1	0	0.1	0.1	0	0.36	0.37	0	0	0	0	0	0
3/13/2025 11:53	57201	ROSS_T1	35	37	2	0.26	0.27	0.01	-0.47	-0.43	0	0	0	0	0	0
3/13/2025 11:53	57205	ROSS_T1	3	4	1	0.53	0.63	0.1	0	0	0	0	0	0	0	0
3/13/2025 11:54	55001	NEWP_T1	1	4	3	0.1	0.38	0.28	-0.92	-0.92	0	0	0	0	0	0
3/13/2025 11:54	55002	NEWP_T1	7	8	1	0.64	1.18	0.54	-0.25	-0.25	0	0	0	0	0	0
3/13/2025 11:55	47402	PENS_T1	0	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0
3/13/2025 11:55	67502	WEWI_T2	4	35	31	0.38	0.19	-0.19	0	0	0	0	0	0	0	0
3/13/2025 11:55	47403	PENS_T1	1	10	9	1.8	0.86	-0.94	0	0	0	0	0	0	0	0
3/13/2025 11:55	47401	PENS_T1	6	47	41	0.55	0.37	-0.18	0.75	1.06	0	0	0	0	0	0
3/13/2025 11:56	65904	SAKR_T2	7	15	8	0.34	0.41	0.07	0	0	0	0	0	0	0	0
3/13/2025 11:56	57203	ROSS_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/13/2025 11:56	67603	WARW_T1	0	5	5	0	0.28	0.28	0	0	0	0	0	0	0	0
3/13/2025 11:56	65902	SAKR_T2	117	0	-117	0.37	0	-0.37	0	0	0	0	0	0	0	0
3/13/2025 11:56	67605	WARW_T1	33	45	12	0.54	0.57	0.03	0	0	0	0	0	0	0	0
3/13/2025 11:56	57205	ROSS_T1	3	4	1	0.53	0.63	0.1	0.25	0.24	0	0	0	0	0	0
3/13/2025 11:56	65901	SAKR_T2	2	2	0	5	5.55	0.55	-1.27	-1.34	1	1	0	900	900	0
3/13/2025 11:56	65903	SAKR_T2	5	0	-5	0.68	0	-0.68	0	0	0	0	0	0	0	0
3/13/2025 11:56	57201	ROSS_T1	35	37	2	0.26	0.27	0.01	-0.47	-0.43	0	0	0	0	0	0
3/13/2025 11:57	57205	ROSS_T1	3	4	1	0.53	0.63	0.1	0	0	0	0	0	0	0	0
3/13/2025 11:57	57203	ROSS_T1	1	1	0	0.1	0.1	0	0.36	0.37	0	0	0	0	0	0
3/13/2025 11:57	57201	ROSS_T1	35	37	2	0.26	0.27	0.01	0	0	0	0	0	0	0	0
3/13/2025 11:57	67603	WARW_T1	0	5	5	0	0.28	0.28	0	0	0	0	0	0	0	0
3/13/2025 11:57	67605	WARW_T1	33	45	12	0.54	0.57	0.03	-0.83	-0.81	0	0	0	0	0	0
3/13/2025 11:58	10805	CHHI_T2	1	1	0	8.2	8.2	0	-0.18	-0.42	0	0	0	0	0	0
3/13/2025 11:59	67603	WARW_T1	0	5	5	0	0.28	0.28	0	0.01	0	0	0	0	0	0
3/13/2025 11:59	67605	WARW_T1	33	45	12	0.54	0.57	0.03	0	0	0	0	0	0	0	0
3/13/2025 12:00	67904	WNHO_T1	0	0	0	0	0	0	-2.12	-2.14	2	2	0	2100	2100	0
3/13/2025 12:01	66901	SHIL_T2	3	3	0	0.27	0.43	0.16	-0.41	-0.41	0	0	0	0	0	0
3/13/2025 12:01	65904	SAKR_T2	13	17	4	0.28	0.44	0.16	0	0	0	0	0	0	0	0
3/13/2025 12:01	67605	WARW_T1	40	53	13	0.45	0.63	0.18	-1.66	-1.61	0	0	0	0	0	0
3/13/2025 12:01	67603	WARW_T1	1	7	6	0.1	0.54	0.44	0	0	0	0	0	0	0	0
3/13/2025 12:01	66902	SHIL_T2	2	6	4	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
3/13/2025 12:01	66903	SHIL_T2	2	4	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
3/13/2025 12:01	65901	SAKR_T2	2	2	0	5.1	5.55	0.45	-1.27	-1.34	1	1	0	900	900	0
3/13/2025 12:01	67604	WARW_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
3/13/2025 12:02	10801	CHHI_T1	7	6	-1	0.29	0.53	0.24	-0.73	-0.8	1	1	0	900	900	0
3/13/2025 12:04	54504	ENOL_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/13/2025 12:04	54502	ENOL_T2	12	20	8	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
3/13/2025 12:04	54505	ENOL_T2	2	2	0	0.7	1.1	0.4	-1.36	-1.35	1	1	0	600	600	0
3/13/2025 12:05	45802	HEIG_T2	44	16	-28	0.88	0.45	-0.43	0	0	0	0	0	0	0	0
3/13/2025 12:05	54505	ENOL_T2	2	2	0	0.7	1.1	0.4	-4.08	-4.05	3	3	0	1800	1800	0
3/13/2025 12:05	63202	MGTN_T2	3	2	-1	1.87	7.5	5.63	1.03	0.93	0	0	0	0	0	0
3/13/2025 12:05	42902	MIDD_T2	3	4	1	0.4	0.73	0.33	-0.32	-0.39	0	0	0	0	0	0
3/13/2025 12:05	67603	WARW_T1	1	7	6	0.1	0.54	0.44	0	0	0	0	0	0	0	0
3/13/2025 12:05	42903	MIDD_T2	2	2	0	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
3/13/2025 12:05	67605	WARW_T1	40	53	13	0.45	0.63	0.18	-0.83	-0.81	0	0	0	0	0	0
3/13/2025 12:05	40901	JESH_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
3/13/2025 12:05	54502	ENOL_T2	12	20	8	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
3/13/2025 12:05	67604	WARW_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
3/13/2025 12:05	40902	JESH_T1	0	0	0	0	0	0	-1.14	-1.22	1	1	0	600	600	0
3/13/2025 12:05	54504	ENOL_T2	0	2	2	0	0.35	0.35	-1.1	-1.05	1	1	0	600	600	0
3/13/2025 12:06	55002	NEWP_T1	7	8	1	0.97	1.24	0.27	-0.5	-0.5	0	0	0	0	0	0
3/13/2025 12:06	55001	NEWP_T1	1	8	7	0.7	0.49	-0.21	-0.92	-0.92	0	0	0	0	0	0
3/13/2025 12:06	42903	MIDD_T2	2	2	0	1.2	0.7	-0.5	0.04	0.78	1	0	-1	1200	0	-1200
3/13/2025 12:06	42902	MIDD_T2	3	4	1	0.4	0.73	0.33	-0.48	-0.59	0	0	0	0	0	0
3/13/2025 12:07	65206	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 12:07	42902	MIDD_T2	3	4	1	0.4	0.73	0.33	-0.2	-0.19	0	0	0	0	0	0
3/13/2025 12:07	65207	PRIN_T4	2	3	1	0.7	1.5	0.8	0	0	0	0	0	0	0	0
3/13/2025 12:07	42903	MIDD_T2	2	2	0	1.2	0.7	-0.5	0	0	0	0	0	0	0	0
3/13/2025 12:09	57201	ROSS_T1	27	59	32	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
3/13/2025 12:09	65901	SAKR_T2	2	2	0	5.1	5.55	0.45	0	0	0	0	0	0	0	0
3/13/2025 12:09	43202	MVIL_T2	47	61	14	0.24	0.44	0.2	-0.58	-0.61	0	0	0	0	0	0
3/13/2025 12:09	57205	ROSS_T1	2	7	5	0.7	0.56	-0.14	0	0	0	0	0	0	0	0
3/13/2025 12:09	43201	MVIL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/13/2025 12:09	65904	SAKR_T2	13	17	4	0.28	0.44	0.16	-1.74	-1.76	2	2	0	900	900	0
3/13/2025 12:09	57203	ROSS_T1	1	7	6	0.1	0.13	0.03	0.37	0.38	0	0	0	0	0	0
3/13/2025 12:09	52502	PROG_T2	5	4	-1	0.26	0.4	0.14	-0.65	-0.68	1	1	0	900	900	0
3/13/2025 12:10	52502	PROG_T2	5	4	-1	0.26	0.4	0.14	-0.65	-0.68	1	1	0	900	900	0
3/13/2025 12:10	57203	ROSS_T1	1	7	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/13/2025 12:10	55001	NEWP_T1	1	8	7	0.7	0.49	-0.21	0	0	0	0	0	0	0	0
3/13/2025 12:10	57205	ROSS_T1	2	7	5	0.7	0.56	-0.14	0	0	0	0	0	0	0	0
3/13/2025 12:10	52501	PROG_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 12:10	57201	ROSS_T1	27	59	32	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
3/13/2025 12:10	55002	NEWP_T1	7	8	1	0.97	1.24	0.27	-0.25	-0.25	0	0	0	0	0	0
3/13/2025 12:11	55002	NEWP_T1	7	8	1	0.97	1.24	0.27	-0.25	-0.25	0	0	0	0	0	0
3/13/2025 12:11	55001	NEWP_T1	1	8	7	0.7	0.49	-0.21	0	0	0	0	0	0	0	0
3/13/2025 12:11	67902	WNHO_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/13/2025 12:11	67901	WNHO_T2	2	2	0	0.25	1	0.75	0.82	0.66	2	2	0	1800	1800	0
3/13/2025 12:11	52501	PROG_T1	0	2	2	0	0.1	0.1	0.16	0.17	1	1	0	300	300	0
3/13/2025 12:11	44801	EDAN_T2	4	7	3	0.58	0.6	0.02	-0.43	-0.45	0	0	0	0	0	0
3/13/2025 12:11	42701	AUGU_T1	1	7	6	1.1	0.5	-0.6	0	0	2	2	0	1800	1800	0
3/13/2025 12:12	67601	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 12:12	47401	PENS_T1	7	47	40	0.63	0.37	-0.26	1.06	0.8	0	0	0	0	0	0
3/13/2025 12:12	47402	PENS_T1	1	2	1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
3/13/2025 12:12	47403	PENS_T1	1	9	8	1.9	0.74	-1.16	0	0	0	0	0	0	0	0
3/13/2025 12:13	67601	WARW_T2	0	0	0	0	0	0	-0.44	-0.4	0	0	0	0	0	0
3/13/2025 12:13	60803	BUCK_T1	0	8	8	0	0.18	0.18	0	0	0	0	0	0	0	0
3/13/2025 12:13	60801	BUCK_T1	0	3	3	0	0.2	0.2	-0.21	-0.18	0	0	0	0	0	0
3/13/2025 12:14	67605	WARW_T1	40	53	13	0.45	0.63	0.18	0	0	0	0	0	0	0	0
3/13/2025 12:14	40502	CRES_T2	8	11	3	0.26	0.29	0.03	0.16	0.17	0	0	0	0	0	0
3/13/2025 12:14	60803	BUCK_T1	0	8	8	0	0.18	0.18	0	0	0	0	0	0	0	0
3/13/2025 12:14	67604	WARW_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
3/13/2025 12:14	42701	AUGU_T1	1	7	6	1.1	0.5	-0.6	0	0	4	4	0	3600	3600	0
3/13/2025 12:14	11303	EMMA_T1	2	8	6	1.1	0.66	-0.44	0	0	0	0	0	0	0	0
3/13/2025 12:14	11301	EMMA_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/13/2025 12:14	60801	BUCK_T1	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/13/2025 12:14	11302	EMMA_T1	1	1	0	0.5	1	0.5	0	0	0	0	0	0	0	0
3/13/2025 12:14	40501	CRES_T2	17	24	7	0.34	0.4	0.06	0	0	0	0	0	0	0	0
3/13/2025 12:14	67603	WARW_T1	1	7	6	0.1	0.54	0.44	0	0	0	0	0	0	0	0
3/13/2025 12:15	41305	FISH_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
3/13/2025 12:15	67604	WARW_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
3/13/2025 12:15	41602	CLEV_T1	1	4	3	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
3/13/2025 12:15	40505	CRES_T1	2	3	1	0.65	0.63	-0.02	0.23	0.26	0	0	0	0	0	0
3/13/2025 12:15	41301	FISH_T1	5	6	1	1.56	1.33	-0.23	-0.26	-0.25	0	0	0	0	0	0
3/13/2025 12:15	11302	EMMA_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/13/2025 12:15	67602	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 12:15	11301	EMMA_T1	0	2	2	0	0.25	0.25	-0.87	-0.88	0	0	0	0	0	0
3/13/2025 12:15	40504	CRES_T1	2	4	2	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
3/13/2025 12:15	41601	CLEV_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
3/13/2025 12:15	11303	EMMA_T1	5	8	3	0.74	0.66	-0.08	0	0	0	0	0	0	0	0
3/13/2025 12:15	67603	WARW_T1	5	7	2	0.28	0.54	0.26	0	0	0	0	0	0	0	0
3/13/2025 12:15	67605	WARW_T1	45	58	13	0.57	0.62	0.05	-0.81	-0.76	0	0	0	0	0	0
3/13/2025 12:16	41602	CLEV_T1	1	4	3	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
3/13/2025 12:16	67605	WARW_T1	45	58	13	0.57	0.62	0.05	-0.81	-0.76	0	0	0	0	0	0
3/13/2025 12:16	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 12:16	41601	CLEV_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
3/13/2025 12:16	67604	WARW_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
3/13/2025 12:16	60801	BUCK_T1	2	13	11	0.25	0.19	-0.06	-0.42	-0.36	0	0	0	0	0	0
3/13/2025 12:16	60803	BUCK_T1	2	14	12	0.1	0.22	0.12	0	0	0	0	0	0	0	0
3/13/2025 12:16	67603	WARW_T1	5	7	2	0.28	0.54	0.26	0	0	0	0	0	0	0	0
3/13/2025 12:16	52502	PROG_T2	3	5	2	0.37	0.38	0.01	0	0	0	0	0	0	0	0
3/13/2025 12:16	42701	AUGU_T1	3	8	5	0.6	0.46	-0.14	0	0	0	0	0	0	0	0
3/13/2025 12:17	40505	CRES_T1	2	3	1	0.65	0.63	-0.02	0.23	0.26	0	0	0	0	0	0
3/13/2025 12:17	60801	BUCK_T1	2	13	11	0.25	0.19	-0.06	-0.21	-0.18	0	0	0	0	0	0
3/13/2025 12:17	41301	FISH_T1	5	6	1	1.56	1.33	-0.23	0	0	0	0	0	0	0	0
3/13/2025 12:17	42701	AUGU_T1	3	8	5	0.6	0.46	-0.14	0	0	2	2	0	1800	1800	0
3/13/2025 12:17	15703	TANN_T2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
3/13/2025 12:17	67604	WARW_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
3/13/2025 12:17	67603	WARW_T1	5	7	2	0.28	0.54	0.26	0	0	0	0	0	0	0	0
3/13/2025 12:17	67605	WARW_T1	45	58	13	0.57	0.62	0.05	-0.81	-0.76	0	0	0	0	0	0
3/13/2025 12:17	40504	CRES_T1	2	4	2	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
3/13/2025 12:17	60803	BUCK_T1	2	14	12	0.1	0.22	0.12	0	0	0	0	0	0	0	0
3/13/2025 12:17	41305	FISH_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
3/13/2025 12:17	15702	TANN_T2	4	4	0	0.15	0.45	0.3	-0.84	-0.92	0	0	0	0	0	0
3/13/2025 12:18	40505	CRES_T1	2	3	1	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
3/13/2025 12:18	40502	CRES_T2	6	11	5	0.33	0.28	-0.05	0.16	0.17	0	0	0	0	0	0
3/13/2025 12:18	15702	TANN_T2	4	4	0	0.15	0.45	0.3	-0.42	-0.46	0	0	0	0	0	0
3/13/2025 12:18	11303	EMMA_T1	5	8	3	0.74	0.66	-0.08	0	0	0	0	0	0	0	0
3/13/2025 12:18	11302	EMMA_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/13/2025 12:18	40504	CRES_T1	2	4	2	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
3/13/2025 12:18	41301	FISH_T1	5	6	1	1.56	1.33	-0.23	-0.26	-0.25	0	0	0	0	0	0
3/13/2025 12:18	40501	CRES_T2	17	19	2	0.46	0.38	-0.08	0	0	0	0	0	0	0	0
3/13/2025 12:18	41305	FISH_T1	1	1	0	1.1	0.8	-0.3	0	0	0	0	0	0	0	0
3/13/2025 12:18	15703	TANN_T2	1	1	0	6.2	6.2	0	0	0	0	0	0	0	0	0
3/13/2025 12:18	11301	EMMA_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/13/2025 12:19	17803	GILB_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/13/2025 12:19	17804	GILB_T2	6	6	0	0.33	0.38	0.05	0	0	0	0	0	0	0	0
3/13/2025 12:19	40501	CRES_T2	17	19	2	0.46	0.38	-0.08	0	0	0	0	0	0	0	0
3/13/2025 12:19	40502	CRES_T2	6	11	5	0.33	0.28	-0.05	0.16	0.17	0	0	0	0	0	0
3/13/2025 12:19	40505	CRES_T1	2	3	1	0.65	0.63	-0.02	0.69	0.78	0	0	0	0	0	0
3/13/2025 12:19	40504	CRES_T1	2	4	2	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
3/13/2025 12:19	17805	GILB_T2	4	5	1	0.58	0.4	-0.18	0	0	0	0	0	0	0	0
3/13/2025 12:20	41602	CLEV_T1	1	4	3	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
3/13/2025 12:20	41601	CLEV_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
3/13/2025 12:20	23203	HIRU_T2	0	0	0	0	0	0	0.15	0.1	0	0	0	0	0	0
3/13/2025 12:20	23201	HIRU_T2	10	7	-3	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
3/13/2025 12:21	47104	MARL_T1	0	0	0	0	0	0	-0.89	-0.92	0	0	0	0	0	0
3/13/2025 12:21	64702	LITI_T2	0	0	0	0	0	0	-0.74	-0.85	0	0	0	0	0	0
3/13/2025 12:23	57402	SPAN_T2	64	117	53	0.18	0.2	0.02	0	0	0	0	0	0	0	0
3/13/2025 12:23	57404	SPAN_T2	0	1	1	0	0.1	0.1	0.53	0.41	1	1	0	1200	1200	0
3/13/2025 12:24	64702	LITI_T2	0	0	0	0	0	0	-0.85	-0.8	0	0	0	0	0	0
3/13/2025 12:24	57403	SPAN_T1	31	61	30	0.28	0.4	0.12	0.05	0.05	0	0	0	0	0	0
3/13/2025 12:24	57401	SPAN_T1	2	5	3	1.35	0.72	-0.63	0	0	0	0	0	0	0	0
3/13/2025 12:25	57401	SPAN_T1	2	5	3	1.35	0.72	-0.63	0.18	0.12	0	0	0	0	0	0
3/13/2025 12:25	57403	SPAN_T1	31	61	30	0.28	0.4	0.12	0.05	0.05	0	0	0	0	0	0
3/13/2025 12:26	20401	ASHF_T2	12	19	7	0.43	0.44	0.01	0.34	0.3	0	0	0	0	0	0
3/13/2025 12:26	66502	SMAN_T2	2	16	14	0.1	0.4	0.3	0.37	0.37	0	0	0	0	0	0
3/13/2025 12:26	17902	BART_T2	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
3/13/2025 12:26	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/13/2025 12:26	20403	ASHF_T2	98	148	50	0.46	0.43	-0.03	0	0	0	0	0	0	0	0
3/13/2025 12:26	52501	PROG_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/13/2025 12:26	66504	SMAN_T2	1	5	4	0.2	0.68	0.48	-1.11	-1.27	0	0	0	0	0	0
3/13/2025 12:26	57403	SPAN_T1	31	61	30	0.28	0.4	0.12	0.1	0.1	0	0	0	0	0	0
3/13/2025 12:26	20402	ASHF_T2	2	4	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/13/2025 12:26	66505	SMAN_T2	4	4	0	0.68	0.65	-0.03	0	0	0	0	0	0	0	0
3/13/2025 12:26	66503	SMAN_T2	0	2	2	0	0.35	0.35	0.29	0.26	0	0	0	0	0	0
3/13/2025 12:26	57401	SPAN_T1	2	5	3	1.35	0.72	-0.63	0	0	0	0	0	0	0	0
3/13/2025 12:27	20403	ASHF_T2	98	148	50	0.46	0.43	-0.03	0	0	0	0	0	0	0	0
3/13/2025 12:27	66502	SMAN_T2	2	16	14	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/13/2025 12:27	57403	SPAN_T1	31	61	30	0.28	0.4	0.12	0.05	0.05	0	0	0	0	0	0
3/13/2025 12:27	47401	PENS_T1	47	8	-39	0.37	0.89	0.52	0	0	0	0	0	0	0	0
3/13/2025 12:27	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/13/2025 12:27	47402	PENS_T1	2	2	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
3/13/2025 12:27	66503	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/13/2025 12:27	47403	PENS_T1	9	4	-5	0.74	0.58	-0.16	0	0	0	0	0	0	0	0
3/13/2025 12:27	66504	SMAN_T2	1	5	4	0.2	0.68	0.48	-1.66	-1.91	0	0	0	0	0	0
3/13/2025 12:27	46005	BERW_T1	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
3/13/2025 12:27	20402	ASHF_T2	2	4	2	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/13/2025 12:27	66505	SMAN_T2	4	4	0	0.68	0.65	-0.03	-0.22	-0.2	1	1	0	900	900	0
3/13/2025 12:27	46001	BERW_T1	1	1	0	0.1	0.2	0.1	0.61	0.64	0	0	0	0	0	0
3/13/2025 12:27	43301	WATS_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
3/13/2025 12:27	20401	ASHF_T2	12	19	7	0.43	0.44	0.01	0.34	0.3	0	0	0	0	0	0
3/13/2025 12:27	57401	SPAN_T1	2	5	3	1.35	0.72	-0.63	0	0	0	0	0	0	0	0
3/13/2025 12:28	66504	SMAN_T2	1	5	4	0.2	0.68	0.48	0	0	0	0	0	0	0	0
3/13/2025 12:28	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/13/2025 12:28	46005	BERW_T1	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
3/13/2025 12:28	66503	SMAN_T2	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/13/2025 12:28	57401	SPAN_T1	2	5	3	1.35	0.72	-0.63	0	0	0	0	0	0	0	0
3/13/2025 12:28	57403	SPAN_T1	31	61	30	0.28	0.4	0.12	0.05	0.05	0	0	0	0	0	0
3/13/2025 12:28	66502	SMAN_T2	2	16	14	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/13/2025 12:28	46001	BERW_T1	1	1	0	0.1	0.2	0.1	0.61	0.64	0	0	0	0	0	0
3/13/2025 12:28	66505	SMAN_T2	4	4	0	0.68	0.65	-0.03	-0.22	-0.2	1	1	0	900	900	0
3/13/2025 12:30	46004	BERW_T2	4	5	1	0.65	0.5	-0.15	-0.35	-0.3	0	0	0	0	0	0
3/13/2025 12:30	44801	EDAN_T2	7	6	-1	0.56	0.52	-0.04	0	0	0	0	0	0	0	0
3/13/2025 12:30	46002	BERW_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/13/2025 12:30	20402	ASHF_T2	4	3	-1	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
3/13/2025 12:30	44802	EDAN_T2	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
3/13/2025 12:30	20401	ASHF_T2	19	12	-7	0.44	0.36	-0.08	0	0	0	0	0	0	0	0
3/13/2025 12:30	20403	ASHF_T2	148	73	-75	0.43	0.54	0.11	-0.13	-0.06	0	0	0	0	0	0
3/13/2025 12:31	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/13/2025 12:31	61803	EELI_T2	0	0	0	0	0	0	0.85	0.87	0	0	0	0	0	0
3/13/2025 12:31	20401	ASHF_T2	19	12	-7	0.44	0.36	-0.08	0	0	0	0	0	0	0	0
3/13/2025 12:31	20402	ASHF_T2	4	3	-1	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
3/13/2025 12:31	44802	EDAN_T2	0	0	0	0	0	0	-1.86	-1.86	0	0	0	0	0	0
3/13/2025 12:31	66503	SMAN_T2	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/13/2025 12:31	66505	SMAN_T2	4	5	1	0.6	0.64	0.04	0	0	0	0	0	0	0	0
3/13/2025 12:31	44801	EDAN_T2	7	6	-1	0.56	0.52	-0.04	0	0	0	0	0	0	0	0
3/13/2025 12:31	46001	BERW_T1	1	0	-1	0.2	0	-0.2	1.23	1.28	0	0	0	0	0	0
3/13/2025 12:31	46002	BERW_T2	0	0	0	0	0	0	-0.75	-0.74	1	1	0	900	900	0
3/13/2025 12:31	61801	EELI_T2	4	3	-1	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
3/13/2025 12:31	20403	ASHF_T2	148	73	-75	0.43	0.54	0.11	-0.06	-0.03	0	0	0	0	0	0
3/13/2025 12:31	66504	SMAN_T2	4	15	11	0.58	0.44	-0.14	-0.55	-0.64	0	0	0	0	0	0
3/13/2025 12:31	66502	SMAN_T2	15	17	2	0.28	0.44	0.16	0	0	0	0	0	0	0	0
3/13/2025 12:31	46005	BERW_T1	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/13/2025 12:32	44801	EDAN_T2	7	6	-1	0.56	0.52	-0.04	0	0	0	0	0	0	0	0
3/13/2025 12:32	44802	EDAN_T2	0	0	0	0	0	0	-1.86	-1.86	0	0	0	0	0	0
3/13/2025 12:33	44801	EDAN_T2	7	6	-1	0.56	0.52	-0.04	0	0	0	0	0	0	0	0
3/13/2025 12:33	44802	EDAN_T2	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
3/13/2025 12:34	44801	EDAN_T2	7	6	-1	0.56	0.52	-0.04	0	0	0	0	0	0	0	0
3/13/2025 12:34	44802	EDAN_T2	0	0	0	0	0	0	-0.93	-0.93	0	0	0	0	0	0
3/13/2025 12:35	43202	MVIL_T2	57	60	3	0.44	0.45	0.01	0	0	0	0	0	0	0	0
3/13/2025 12:35	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.07	1	1	0	600	600	0
3/13/2025 12:35	43201	MVIL_T2	1	0	-1	0.7	0	-0.7	-0.4	-0.4	0	0	0	0	0	0
3/13/2025 12:36	47104	MARL_T1	0	0	0	0	0	0	-0.9	-0.91	0	0	0	0	0	0
3/13/2025 12:37	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.08	1	1	0	600	600	0
3/13/2025 12:38	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.08	1	1	0	600	600	0
3/13/2025 12:38	60301	TWVA_T2	0	0	0	0	0	0	-1.79	-1.79	2	2	0	1800	1800	0
3/13/2025 12:39	58402	MORO_T1	0	0	0	0	0	0	0	-0.01	2	2	0	1500	1500	0
3/13/2025 12:39	67201	TEHI_T1	0	0	0	0	0	0	0.69	0.84	1	1	0	900	900	0
3/13/2025 12:40	58401	MORO_T1	0	0	0	0	0	0	-1.07	-1.08	1	1	0	600	600	0
3/13/2025 12:40	16302	ALPA_T2	4	3	-1	0.33	0.37	0.04	0	0	0	0	0	0	0	0
3/13/2025 12:40	60201	ATGL_T2	0	2	2	0	0.15	0.15	-0.01	-0.02	0	0	0	0	0	0
3/13/2025 12:41	46004	BERW_T2	4	5	1	0.65	0.5	-0.15	-0.3	-0.36	0	0	0	0	0	0
3/13/2025 12:41	14802	TREI_T2	39	23	-16	0.32	0.27	-0.05	0.31	0.32	0	0	0	0	0	0
3/13/2025 12:41	20403	ASHF_T2	148	73	-75	0.43	0.54	0.11	-0.03	-0.06	0	0	0	0	0	0
3/13/2025 12:41	58202	NEWV_T1	8	0	-8	0.44	0	-0.44	0.34	0.42	0	0	0	0	0	0
3/13/2025 12:41	20402	ASHF_T2	4	3	-1	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
3/13/2025 12:41	14801	TREI_T2	137	91	-46	0.41	0.34	-0.07	0	0	0	0	0	0	0	0
3/13/2025 12:41	20401	ASHF_T2	19	12	-7	0.44	0.36	-0.08	0	0	0	0	0	0	0	0
3/13/2025 12:41	16302	ALPA_T2	4	3	-1	0.33	0.37	0.04	0.48	0.51	0	0	0	0	0	0
3/13/2025 12:41	46002	BERW_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/13/2025 12:43	55105	WERT_T1	0	2	2	0	0.45	0.45	-0.7	-0.74	1	1	0	900	900	0
3/13/2025 12:43	67605	WARW_T1	53	62	9	0.63	0.53	-0.1	0	0	0	0	0	0	0	0
3/13/2025 12:43	46004	BERW_T2	4	5	1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
3/13/2025 12:43	67603	WARW_T1	7	5	-2	0.54	0.54	0	0	0	0	0	0	0	0	0
3/13/2025 12:43	67604	WARW_T1	3	3	0	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
3/13/2025 12:43	46002	BERW_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/13/2025 12:44	16302	ALPA_T2	4	3	-1	0.33	0.37	0.04	0.48	0.51	0	0	0	0	0	0
3/13/2025 12:44	51302	WIND_T2	0	3	3	0	0.27	0.27	0	0	0	0	0	0	0	0
3/13/2025 12:44	51306	WIND_T2	3	4	1	0.27	0.43	0.16	0	0	0	0	0	0	0	0
3/13/2025 12:44	51304	WIND_T2	2	2	0	0.25	0.35	0.1	0	0	0	0	0	0	0	0
3/13/2025 12:44	60201	ATGL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/13/2025 12:45	60201	ATGL_T2	1	2	1	0.1	0.15	0.05	-0.01	-0.02	0	0	0	0	0	0
3/13/2025 12:46	41305	FISH_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/13/2025 12:46	16302	ALPA_T2	2	4	2	0.35	0.3	-0.05	0.48	0.51	0	0	0	0	0	0
3/13/2025 12:46	40101	HUNT_T2	1	1	0	0.3	0.2	-0.1	-1.39	-1.42	0	0	0	0	0	0
3/13/2025 12:46	41301	FISH_T1	4	6	2	1.5	1.45	-0.05	-0.27	-0.26	0	0	0	0	0	0
3/13/2025 12:50	40101	HUNT_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/13/2025 12:52	47104	MARL_T1	0	0	0	0	0	0	-0.91	-0.88	0	0	0	0	0	0
3/13/2025 12:54	50701	SMEC_T1	10	27	17	0.4	0.49	0.09	0	0	0	0	0	0	0	0
3/13/2025 12:55	50701	SMEC_T1	10	27	17	0.4	0.49	0.09	0.22	0.24	0	0	0	0	0	0
3/13/2025 12:56	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 12:56	55105	WERT_T1	1	15	14	0.1	0.33	0.23	-1.49	-1.44	2	2	0	1800	1800	0
3/13/2025 12:57	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 12:57	55105	WERT_T1	1	15	14	0.1	0.33	0.23	-0.74	-0.72	1	1	0	900	900	0
3/13/2025 12:57	16102	BING_T2	5	5	0	0.72	0.88	0.16	0	0	0	0	0	0	0	0
3/13/2025 12:57	16101	BING_T2	2	3	1	0.75	0.63	-0.12	0.23	0.25	0	0	0	0	0	0
3/13/2025 12:57	16103	BING_T2	0	1	1	0	1	1	0	0	0	0	0	0	0	0
3/13/2025 12:59	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 12:59	55105	WERT_T1	1	15	14	0.1	0.33	0.23	-0.74	-0.72	1	1	0	900	900	0
3/13/2025 13:02	66901	SHIL_T2	2	5	3	0.45	0.32	-0.13	0	0	0	0	0	0	0	0
3/13/2025 13:02	66903	SHIL_T2	2	6	4	0.25	0.18	-0.07	-1.17	-1.18	0	0	0	0	0	0
3/13/2025 13:02	40101	HUNT_T2	1	4	3	0.2	0.48	0.28	-1.42	-1.41	0	0	0	0	0	0
3/13/2025 13:02	66902	SHIL_T2	4	5	1	0.15	0.16	0.01	-2.14	-2.08	0	0	0	0	0	0
3/13/2025 13:03	66903	SHIL_T2	2	6	4	0.25	0.18	-0.07	-1.17	-1.18	0	0	0	0	0	0
3/13/2025 13:03	66902	SHIL_T2	4	5	1	0.15	0.16	0.01	-1.07	-1.04	0	0	0	0	0	0
3/13/2025 13:03	40101	HUNT_T2	1	4	3	0.2	0.48	0.28	-1.42	-1.41	0	0	0	0	0	0
3/13/2025 13:03	44203	POIN_T2	2	1	-1	1.45	0.1	-1.35	-0.55	-0.53	2	2	0	2100	2100	0
3/13/2025 13:03	66901	SHIL_T2	2	5	3	0.45	0.32	-0.13	0	0	0	0	0	0	0	0
3/13/2025 13:04	66901	SHIL_T2	2	5	3	0.45	0.32	-0.13	0	0	0	0	0	0	0	0
3/13/2025 13:04	52402	GRPA_T2	35	53	18	0.41	0.37	-0.04	0	0	0	0	0	0	0	0
3/13/2025 13:04	52403	GRPA_T2	9	37	28	0.4	0.72	0.32	-0.69	-0.64	0	0	0	0	0	0
3/13/2025 13:04	66902	SHIL_T2	4	5	1	0.15	0.16	0.01	0	0	0	0	0	0	0	0
3/13/2025 13:04	66903	SHIL_T2	2	6	4	0.25	0.18	-0.07	-2.34	-2.36	0	0	0	0	0	0
3/13/2025 13:04	52401	GRPA_T2	1	2	1	0.8	0.8	0	-0.82	-0.76	0	0	0	0	0	0
3/13/2025 13:07	13303	ORVI_T1	0	0	0	0	0	0	0.9	0.89	0	0	0	0	0	0
3/13/2025 13:08	66203	SISP_T2	0	1	1	0	0.4	0.4	-0.87	-0.9	1	1	0	1200	1200	0
3/13/2025 13:08	66502	SMAN_T2	14	19	5	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
3/13/2025 13:08	66505	SMAN_T2	5	4	-1	0.64	0.48	-0.16	0	0	0	0	0	0	0	0
3/13/2025 13:08	66503	SMAN_T2	1	2	1	0.3	0.95	0.65	0	0	0	0	0	0	0	0
3/13/2025 13:08	66501	SMAN_T2	1	2	1	0.1	0.75	0.65	0	0	0	0	0	0	0	0
3/13/2025 13:08	66504	SMAN_T2	15	35	20	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
3/13/2025 13:09	66202	SISP_T2	0	0	0	0	0	0	-1.11	-0.94	0	0	0	0	0	0
3/13/2025 13:09	66503	SMAN_T2	1	2	1	0.3	0.95	0.65	0	0	0	0	0	0	0	0
3/13/2025 13:09	66501	SMAN_T2	1	2	1	0.1	0.75	0.65	0	0	0	0	0	0	0	0
3/13/2025 13:09	66502	SMAN_T2	14	19	5	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
3/13/2025 13:09	66505	SMAN_T2	5	4	-1	0.64	0.48	-0.16	0.02	0.04	1	1	0	900	900	0
3/13/2025 13:09	58101	NEKI_T1	3	8	5	0.63	0.78	0.15	0	0	0	0	0	0	0	0
3/13/2025 13:09	58102	NEKI_T1	2	2	0	1.05	1.4	0.35	0.11	0.2	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/13/2025 13:09	66504	SMAN_T2	15	35	20	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
3/13/2025 13:09	66203	SISP_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/13/2025 13:10	66502	SMAN_T2	14	19	5	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
3/13/2025 13:10	66505	SMAN_T2	5	4	-1	0.64	0.48	-0.16	0	0	0	0	0	0	0	0
3/13/2025 13:10	66501	SMAN_T2	1	2	1	0.1	0.75	0.65	0	0	0	0	0	0	0	0
3/13/2025 13:10	66203	SISP_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/13/2025 13:10	66503	SMAN_T2	1	2	1	0.3	0.95	0.65	0	0	0	0	0	0	0	0
3/13/2025 13:10	66504	SMAN_T2	15	35	20	0.44	0.42	-0.02	-0.56	-0.55	0	0	0	0	0	0
3/13/2025 13:12	66504	SMAN_T2	15	35	20	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
3/13/2025 13:12	66502	SMAN_T2	14	19	5	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
3/13/2025 13:12	66503	SMAN_T2	1	2	1	0.3	0.95	0.65	0.28	0.31	0	0	0	0	0	0
3/13/2025 13:12	66505	SMAN_T2	5	4	-1	0.64	0.48	-0.16	0.02	0.04	1	1	0	900	900	0
3/13/2025 13:12	66501	SMAN_T2	1	2	1	0.1	0.75	0.65	0	0	0	0	0	0	0	0
3/13/2025 13:13	66501	SMAN_T2	1	2	1	0.1	0.75	0.65	0	0	0	0	0	0	0	0
3/13/2025 13:13	66504	SMAN_T2	15	35	20	0.44	0.42	-0.02	-0.56	-0.55	0	0	0	0	0	0
3/13/2025 13:13	16302	ALPA_T2	3	4	1	0.37	0.25	-0.12	0.5	0.51	0	0	0	0	0	0
3/13/2025 13:13	47901	HRDG_T1	0	0	0	0	0	0	1.53	1.58	0	0	0	0	0	0
3/13/2025 13:13	66503	SMAN_T2	1	2	1	0.3	0.95	0.65	0	0	0	0	0	0	0	0
3/13/2025 13:13	66502	SMAN_T2	14	19	5	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
3/13/2025 13:13	66505	SMAN_T2	5	4	-1	0.64	0.48	-0.16	0	0	0	0	0	0	0	0
3/13/2025 13:15	24104	EHAZ_T1	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/13/2025 13:15	24105	EHAZ_T1	4	4	0	7.33	7.38	0.05	0	0	0	0	0	0	0	0
3/13/2025 13:15	24102	EHAZ_T1	4	4	0	0.68	0.13	-0.55	0	0	0	0	0	0	0	0
3/13/2025 13:15	24101	EHAZ_T1	19	10	-9	0.79	0.9	0.11	0	0	0	0	0	0	0	0
3/13/2025 13:15	24103	EHAZ_T1	0	0	0	0	0	0	-2.29	-2.27	0	0	0	0	0	0
3/13/2025 13:16	24102	EHAZ_T1	4	4	0	0.68	0.13	-0.55	0	0	0	0	0	0	0	0
3/13/2025 13:16	54505	ENOL_T2	3	4	1	1.13	0.73	-0.4	0	0	0	0	0	0	0	0
3/13/2025 13:16	24101	EHAZ_T1	19	10	-9	0.79	0.9	0.11	0	0	0	0	0	0	0	0
3/13/2025 13:16	24104	EHAZ_T1	2	1	-1	0.3	0.5	0.2	-2.21	-2.22	1	1	0	1200	1200	0
3/13/2025 13:16	54504	ENOL_T2	2	1	-1	0.6	1	0.4	0	0	0	0	0	0	0	0
3/13/2025 13:16	54503	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/13/2025 13:16	54502	ENOL_T2	52	2	-50	0.15	0.6	0.45	0	0	0	0	0	0	0	0
3/13/2025 13:16	44502	HAMI_T2	2	2	0	1.5	1.6	0.1	0.05	0.05	0	0	0	0	0	0
3/13/2025 13:16	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 13:16	44505	HAMI_T2	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
3/13/2025 13:16	24105	EHAZ_T1	4	4	0	7.33	7.38	0.05	0	0	0	0	0	0	0	0
3/13/2025 13:18	54502	ENOL_T2	52	2	-50	0.15	0.6	0.45	0	0	0	0	0	0	0	0
3/13/2025 13:18	54505	ENOL_T2	3	4	1	1.13	0.73	-0.4	-1.36	-1.37	1	1	0	600	600	0
3/13/2025 13:18	54503	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/13/2025 13:18	54504	ENOL_T2	2	1	-1	0.6	1	0.4	-0.44	-0.47	0	0	0	0	0	0
3/13/2025 13:18	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 13:19	20603	GRWO_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/13/2025 13:19	44505	HAMI_T2	1	3	2	0.2	0.27	0.07	0	0	0	0	0	0	0	0
3/13/2025 13:19	54503	ENOL_T2	1	0	-1	0.2	0	-0.2	-0.9	-0.92	2	2	0	1200	1200	0
3/13/2025 13:19	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 13:19	44502	HAMI_T2	2	2	0	1.5	1.6	0.1	0.05	0.05	0	0	0	0	0	0
3/13/2025 13:19	54505	ENOL_T2	3	4	1	1.13	0.73	-0.4	0	0	0	0	0	0	0	0
3/13/2025 13:19	20601	GRWO_T2	0	0	0	0	0	0	0.62	0.59	0	0	0	0	0	0
3/13/2025 13:19	54504	ENOL_T2	2	1	-1	0.6	1	0.4	0	0	0	0	0	0	0	0
3/13/2025 13:19	54502	ENOL_T2	52	2	-50	0.15	0.6	0.45	0	0	0	0	0	0	0	0
3/13/2025 13:20	54504	ENOL_T2	2	1	-1	0.6	1	0.4	0	0	0	0	0	0	0	0
3/13/2025 13:20	54505	ENOL_T2	3	4	1	1.13	0.73	-0.4	-1.36	-1.37	1	1	0	600	600	0
3/13/2025 13:20	54502	ENOL_T2	52	2	-50	0.15	0.6	0.45	0	0	0	0	0	0	0	0
3/13/2025 13:20	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 13:20	54503	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/13/2025 13:21	54503	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/13/2025 13:21	64902	MILL_T2	0	0	0	0	0	0	0.16	0.13	0	0	0	0	0	0
3/13/2025 13:21	54504	ENOL_T2	2	1	-1	0.6	1	0.4	0	0	0	0	0	0	0	0
3/13/2025 13:21	54505	ENOL_T2	3	4	1	1.13	0.73	-0.4	0	0	0	0	0	0	0	0
3/13/2025 13:21	54502	ENOL_T2	52	2	-50	0.15	0.6	0.45	0	0	0	0	0	0	0	0
3/13/2025 13:21	54501	ENOL_T2	0	2	2	0	0.1	0.1	0.07	0.07	0	0	0	0	0	0
3/13/2025 13:22	54502	ENOL_T2	52	2	-50	0.15	0.6	0.45	0	0	0	0	0	0	0	0
3/13/2025 13:22	54501	ENOL_T2	0	2	2	0	0.1	0.1	0.14	0.14	0	0	0	0	0	0
3/13/2025 13:22	66502	SMAN_T2	11	20	9	0.35	0.36	0.01	0	0	0	0	0	0	0	0
3/13/2025 13:22	66505	SMAN_T2	4	4	0	0.35	0.38	0.03	0	0	0	0	0	0	0	0
3/13/2025 13:22	54504	ENOL_T2	2	1	-1	0.6	1	0.4	0	0	0	0	0	0	0	0
3/13/2025 13:22	66501	SMAN_T2	2	2	0	0.4	0.95	0.55	0	0	0	0	0	0	0	0
3/13/2025 13:22	66504	SMAN_T2	20	35	15	0.42	0.43	0.01	-0.55	-0.61	0	0	0	0	0	0
3/13/2025 13:22	54503	ENOL_T2	1	0	-1	0.2	0	-0.2	-0.46	-0.48	1	1	0	600	600	0
3/13/2025 13:22	66503	SMAN_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
3/13/2025 13:22	54505	ENOL_T2	3	4	1	1.13	0.73	-0.4	0	0	0	0	0	0	0	0
3/13/2025 13:23	54504	ENOL_T2	2	1	-1	0.6	1	0.4	0	0	0	0	0	0	0	0
3/13/2025 13:23	66501	SMAN_T2	2	2	0	0.4	0.95	0.55	0	0	0	0	0	0	0	0
3/13/2025 13:23	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 13:23	54502	ENOL_T2	52	2	-50	0.15	0.6	0.45	0	0	0	0	0	0	0	0
3/13/2025 13:23	66503	SMAN_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
3/13/2025 13:23	54503	ENOL_T2	1	0	-1	0.2	0	-0.2	-0.46	-0.48	1	1	0	600	600	0
3/13/2025 13:23	66504	SMAN_T2	20	35	15	0.42	0.43	0.01	0	0	0	0	0	0	0	0
3/13/2025 13:23	54505	ENOL_T2	3	4	1	1.13	0.73	-0.4	0	0	0	0	0	0	0	0
3/13/2025 13:23	66502	SMAN_T2	11	20	9	0.35	0.36	0.01	0	0	0	0	0	0	0	0
3/13/2025 13:23	66505	SMAN_T2	4	4	0	0.35	0.38	0.03	0	0	0	0	0	0	0	0
3/13/2025 13:24	65202	PRIN_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/13/2025 13:24	54502	ENOL_T2	52	2	-50	0.15	0.6	0.45	0	0	0	0	0	0	0	0
3/13/2025 13:24	54503	ENOL_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/13/2025 13:24	54505	ENOL_T2	3	4	1	1.13	0.73	-0.4	-1.37	-1.39	1	1	0	600	600	0
3/13/2025 13:24	65205	PRIN_T1	3	8	5	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
3/13/2025 13:24	54504	ENOL_T2	2	1	-1	0.6	1	0.4	0	0	0	0	0	0	0	0
3/13/2025 13:24	62602	ENGL_T1	0	1	1	0	0.2	0.2	0.05	0.07	0	0	0	0	0	0
3/13/2025 13:24	62607	ENGL_T1	3	8	5	0.33	0.31	-0.02	0	0	0	0	0	0	0	0
3/13/2025 13:24	62605	ENGL_T1	7	10	3	0.23	0.38	0.15	0	0	0	0	0	0	0	0
3/13/2025 13:24	54501	ENOL_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 13:24	65203	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 13:25	66501	SMAN_T2	2	2	0	0.4	0.95	0.55	0	0	0	0	0	0	0	0
3/13/2025 13:25	66505	SMAN_T2	4	4	0	0.35	0.38	0.03	0	0	0	0	0	0	0	0
3/13/2025 13:25	66502	SMAN_T2	11	20	9	0.35	0.36	0.01	0	0	0	0	0	0	0	0
3/13/2025 13:25	66503	SMAN_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
3/13/2025 13:25	66504	SMAN_T2	20	35	15	0.42	0.43	0.01	-0.55	-0.61	0	0	0	0	0	0
3/13/2025 13:26	66502	SMAN_T2	11	20	9	0.35	0.36	0.01	0	0	0	0	0	0	0	0
3/13/2025 13:26	66503	SMAN_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
3/13/2025 13:26	66501	SMAN_T2	2	2	0	0.4	0.95	0.55	0	0	0	0	0	0	0	0
3/13/2025 13:26	66505	SMAN_T2	4	4	0	0.35	0.38	0.03	0	0	0	0	0	0	0	0
3/13/2025 13:26	66504	SMAN_T2	20	35	15	0.42	0.43	0.01	-0.55	-0.61	0	0	0	0	0	0
3/13/2025 13:27	66505	SMAN_T2	4	4	0	0.35	0.38	0.03	0	0	0	0	0	0	0	0
3/13/2025 13:27	66504	SMAN_T2	20	35	15	0.42	0.43	0.01	-0.55	-0.61	0	0	0	0	0	0
3/13/2025 13:27	66503	SMAN_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
3/13/2025 13:27	66501	SMAN_T2	2	2	0	0.4	0.95	0.55	0	0	0	0	0	0	0	0
3/13/2025 13:27	66502	SMAN_T2	11	20	9	0.35	0.36	0.01	0	0	0	0	0	0	0	0
3/13/2025 13:28	66502	SMAN_T2	11	20	9	0.35	0.36	0.01	0	0	0	0	0	0	0	0
3/13/2025 13:28	66501	SMAN_T2	2	2	0	0.4	0.95	0.55	0	0	0	0	0	0	0	0
3/13/2025 13:28	66504	SMAN_T2	20	35	15	0.42	0.43	0.01	-0.55	-0.61	0	0	0	0	0	0
3/13/2025 13:28	66505	SMAN_T2	4	4	0	0.35	0.38	0.03	0	0	0	0	0	0	0	0
3/13/2025 13:28	66503	SMAN_T2	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
3/13/2025 13:28	43304	WATS_T2	0	1	1	0	0	0	1.66	1.76	0	0	0	0	0	0
3/13/2025 13:29	10903	COOP_T2	3	4	1	0.97	0.7	-0.27	0	0	0	0	0	0	0	0
3/13/2025 13:29	52204	DEVO_T2	2	2	0	4.05	4	-0.05	0	0	0	0	0	0	0	0
3/13/2025 13:29	43304	WATS_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 13:29	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 13:30	52401	GRPA_T2	1	3	2	0.8	0.63	-0.17	0	0	0	0	0	0	0	0
3/13/2025 13:30	41601	CLEV_T1	2	1	-1	0.65	0.7	0.05	0	0	0	0	0	0	0	0
3/13/2025 13:30	52402	GRPA_T2	21	26	5	0.5	0.55	0.05	0	0	0	0	0	0	0	0
3/13/2025 13:30	52403	GRPA_T2	32	119	87	0.74	0.56	-0.18	-0.57	-0.53	0	0	0	0	0	0
3/13/2025 13:30	41602	CLEV_T1	2	3	1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/13/2025 13:32	41602	CLEV_T1	2	3	1	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/13/2025 13:32	45501	DERR_T2	3	8	5	0.47	0.26	-0.21	0	0	0	0	0	0	0	0
3/13/2025 13:32	41601	CLEV_T1	2	1	-1	0.65	0.7	0.05	0	0	0	0	0	0	0	0
3/13/2025 13:32	45502	DERR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 13:33	64204	KINZ_T1	18	43	25	0.39	0.47	0.08	0	0	0	0	0	0	0	0
3/13/2025 13:33	64203	KINZ_T1	0	0	0	0	0	0	1.11	1.28	1	1	0	600	600	0
3/13/2025 13:34	40101	HUNT_T2	4	3	-1	0.48	0.27	-0.21	-1.47	-1.49	0	0	0	0	0	0
3/13/2025 13:35	20603	GRWO_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/13/2025 13:35	20601	GRWO_T2	0	0	0	0	0	0	0.59	0.59	0	0	0	0	0	0
3/13/2025 13:37	44701	MUNC_T2	0	0	0	0	0	0	-1.07	-1.02	0	0	0	0	0	0
3/13/2025 13:39	57203	ROSS_T1	372	422	50	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
3/13/2025 13:39	57205	ROSS_T1	212	224	12	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
3/13/2025 13:39	57201	ROSS_T1	165	197	32	0.29	0.3	0.01	0	0	0	0	0	0	0	0
3/13/2025 13:40	55101	WERT_T1	0	0	0	0	0	0	-1.05	-1.18	2	2	0	1500	1500	0
3/13/2025 13:40	13901	SEID_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/13/2025 13:40	13905	SEID_T1	1	2	1	0.3	0.45	0.15	0.23	0.2	0	0	0	0	0	0
3/13/2025 13:40	57201	ROSS_T1	165	197	32	0.29	0.3	0.01	0	0	0	0	0	0	0	0
3/13/2025 13:40	57203	ROSS_T1	372	422	50	0.15	0.14	-0.01	0.35	0.32	0	0	0	0	0	0
3/13/2025 13:40	13902	SEID_T1	2	2	0	0.5	0.75	0.25	0	0	0	0	0	0	0	0
3/13/2025 13:40	57205	ROSS_T1	212	224	12	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
3/13/2025 13:40	55105	WERT_T1	3	3	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/13/2025 13:42	57203	ROSS_T1	372	422	50	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
3/13/2025 13:42	57205	ROSS_T1	212	224	12	0.2	0.19	-0.01	0	0	0	0	0	0	0	0
3/13/2025 13:42	55105	WERT_T1	3	3	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/13/2025 13:42	55101	WERT_T1	0	0	0	0	0	0	-1.05	-1.18	2	2	0	1500	1500	0
3/13/2025 13:42	57201	ROSS_T1	165	197	32	0.29	0.3	0.01	0	0	0	0	0	0	0	0
3/13/2025 13:43	16101	BING_T2	3	3	0	0.67	0.93	0.26	0	0	0	0	0	0	0	0
3/13/2025 13:43	16102	BING_T2	5	7	2	0.82	0.71	-0.11	0.03	0.05	0	0	0	0	0	0
3/13/2025 13:43	16103	BING_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/13/2025 13:45	40701	FFLD_T1	14	2	-12	0.16	0.4	0.24	0	0	0	0	0	0	0	0
3/13/2025 13:45	46205	DANV_T2	0	0	0	0	0	0	-0.82	-0.85	1	1	0	1200	1200	0
3/13/2025 13:45	46201	DANV_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/13/2025 13:45	46203	DANV_T2	119	178	59	0.41	0.86	0.45	0	0	0	0	0	0	0	0
3/13/2025 13:45	40703	FFLD_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 13:46	11303	EMMA_T1	10	12	2	0.62	0.77	0.15	0	0	0	0	0	0	0	0
3/13/2025 13:46	46201	DANV_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/13/2025 13:46	11302	EMMA_T1	1	4	3	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
3/13/2025 13:46	46203	DANV_T2	119	178	59	0.41	0.86	0.45	0.24	0.08	0	0	0	0	0	0
3/13/2025 13:46	11301	EMMA_T1	1	3	2	0.2	0.4	0.2	-0.88	-0.83	0	0	0	0	0	0
3/13/2025 13:47	46201	DANV_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/13/2025 13:47	11302	EMMA_T1	1	4	3	0.9	0.5	-0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/13/2025 13:47	40603	PIGR_T1	1	3	2	0.4	0.43	0.03	0	0	0	0	0	0	0	0
3/13/2025 13:47	40701	FFLD_T1	14	2	-12	0.16	0.4	0.24	0	0	0	0	0	0	0	0
3/13/2025 13:47	11303	EMMA_T1	10	12	2	0.62	0.77	0.15	0	0	0	0	0	0	0	0
3/13/2025 13:47	40703	FFLD_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 13:47	11301	EMMA_T1	1	3	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/13/2025 13:47	40602	PIGR_T1	1	3	2	0.3	0.4	0.1	0.49	0.51	0	0	0	0	0	0
3/13/2025 13:47	46203	DANV_T2	119	178	59	0.41	0.86	0.45	0.12	0.04	0	0	0	0	0	0
3/13/2025 13:47	40601	PIGR_T1	142	179	37	0.48	0.54	0.06	0	0	0	0	0	0	0	0
3/13/2025 13:49	46203	DANV_T2	119	178	59	0.41	0.86	0.45	0.12	0.04	0	0	0	0	0	0
3/13/2025 13:49	52401	GRPA_T2	1	6	5	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
3/13/2025 13:49	41202	KENM_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/13/2025 13:49	44203	POIN_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/13/2025 13:49	52402	GRPA_T2	20	87	67	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/13/2025 13:49	46201	DANV_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/13/2025 13:49	41204	KENM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 13:49	52403	GRPA_T2	56	161	105	0.53	0.6	0.07	0	0	0	0	0	0	0	0
3/13/2025 13:49	44202	POIN_T2	0	1	1	0	0.1	0.1	-0.67	-0.72	1	1	0	1200	1200	0
3/13/2025 13:51	52401	GRPA_T2	1	6	5	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
3/13/2025 13:51	43202	MVIL_T2	89	109	20	0.65	0.55	-0.1	-0.64	-0.65	0	0	0	0	0	0
3/13/2025 13:51	52403	GRPA_T2	56	161	105	0.53	0.6	0.07	-0.53	-0.58	0	0	0	0	0	0
3/13/2025 13:51	64203	KINZ_T1	0	0	0	0	0	0	1.28	1.45	1	1	0	600	600	0
3/13/2025 13:51	52402	GRPA_T2	20	87	67	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/13/2025 13:51	47101	MARL_T1	0	0	0	0	0	0	-1.28	-1.26	0	0	0	0	0	0
3/13/2025 13:51	43201	MVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 13:51	64204	KINZ_T1	23	43	20	0.51	0.48	-0.03	0	0	0	0	0	0	0	0
3/13/2025 13:52	52402	GRPA_T2	20	87	67	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/13/2025 13:52	52403	GRPA_T2	56	161	105	0.53	0.6	0.07	0	0	0	0	0	0	0	0
3/13/2025 13:52	52401	GRPA_T2	1	6	5	0.6	0.43	-0.17	-0.65	-0.78	0	0	0	0	0	0
3/13/2025 13:53	52402	GRPA_T2	20	87	67	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/13/2025 13:53	52401	GRPA_T2	1	6	5	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
3/13/2025 13:53	52403	GRPA_T2	56	161	105	0.53	0.6	0.07	-0.58	-0.64	0	0	0	0	0	0
3/13/2025 13:54	43202	MVIL_T2	89	109	20	0.65	0.55	-0.1	-0.64	-0.65	0	0	0	0	0	0
3/13/2025 13:54	52403	GRPA_T2	56	161	105	0.53	0.6	0.07	0	0	0	0	0	0	0	0
3/13/2025 13:54	52401	GRPA_T2	1	6	5	0.6	0.43	-0.17	0	0	0	0	0	0	0	0
3/13/2025 13:54	43201	MVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 13:54	52402	GRPA_T2	20	87	67	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/13/2025 13:55	65203	PRIN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/13/2025 13:55	65205	PRIN_T1	6	5	-1	0.27	0.46	0.19	0	0	0	0	0	0	0	0
3/13/2025 13:55	65202	PRIN_T1	1	2	1	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
3/13/2025 13:56	14801	TREI_T2	84	215	131	0.36	0.44	0.08	0	0	0	0	0	0	0	0
3/13/2025 13:56	14802	TREI_T2	23	86	63	0.31	0.31	0	0.31	0.29	0	0	0	0	0	0
3/13/2025 13:57	45501	DERR_T2	3	15	12	0.23	0.36	0.13	0.15	0.09	2	2	0	1800	1800	0
3/13/2025 14:00	14801	TREI_T2	110	216	106	0.45	0.44	-0.01	0	0	0	0	0	0	0	0
3/13/2025 14:00	14802	TREI_T2	29	86	57	0.31	0.32	0.01	0.31	0.29	0	0	0	0	0	0
3/13/2025 14:01	44802	EDAN_T2	0	0	0	0	0	0	-0.93	-0.85	0	0	0	0	0	0
3/13/2025 14:01	44801	EDAN_T2	6	9	3	0.52	0.54	0.02	0	0	0	0	0	0	0	0
3/13/2025 14:03	44801	EDAN_T2	6	9	3	0.52	0.54	0.02	0	0	0	0	0	0	0	0
3/13/2025 14:03	44802	EDAN_T2	0	0	0	0	0	0	-1.86	-1.7	0	0	0	0	0	0
3/13/2025 14:03	20201	JERM_T1	0	0	0	0	0	0	0.68	0.65	1	1	0	1200	1200	0
3/13/2025 14:05	41001	LAUR_T2	79	88	9	0.41	0.81	0.4	0	0	0	0	0	0	0	0
3/13/2025 14:05	41002	LAUR_T2	47	60	13	0.34	0.76	0.42	0	0	0	0	0	0	0	0
3/13/2025 14:06	46903	MNTG_T2	96	134	38	0.22	0.34	0.12	0	0	0	0	0	0	0	0
3/13/2025 14:06	52402	GRPA_T2	24	87	63	0.51	0.4	-0.11	0	0	0	0	0	0	0	0
3/13/2025 14:06	52401	GRPA_T2	3	6	3	0.63	0.43	-0.2	0	0	0	0	0	0	0	0
3/13/2025 14:06	46902	MNTG_T2	0	0	0	0	0	0	-0.54	-0.54	1	1	0	600	600	0
3/13/2025 14:06	52403	GRPA_T2	119	159	40	0.55	0.6	0.05	-0.58	-0.64	0	0	0	0	0	0
3/13/2025 14:09	66501	SMAN_T2	2	0	0	0.9	1.25	0.35	0	0	0	0	0	0	0	0
3/13/2025 14:09	66505	SMAN_T2	5	6	1	0.74	0.65	-0.09	0	0	0	0	0	0	0	0
3/13/2025 14:09	66503	SMAN_T2	2	2	0	1.1	1.25	0.15	0	0	0	0	0	0	0	0
3/13/2025 14:09	66504	SMAN_T2	37	41	4	0.38	0.31	-0.07	-0.56	-0.6	0	0	0	0	0	0
3/13/2025 14:09	66502	SMAN_T2	20	35	15	0.42	0.43	0.01	0.39	0.27	0	0	0	0	0	0
3/13/2025 14:10	48303	ORWI_T2	2	5	3	0.85	0.56	-0.29	0	0	0	0	0	0	0	0
3/13/2025 14:10	18001	ZION_T1	7	10	3	0.56	0.69	0.13	0	0	0	0	0	0	0	0
3/13/2025 14:10	66505	SMAN_T2	5	6	1	0.74	0.65	-0.09	0	0	0	0	0	0	0	0
3/13/2025 14:10	66504	SMAN_T2	37	41	4	0.38	0.31	-0.07	0	0	0	0	0	0	0	0
3/13/2025 14:10	48302	ORWI_T2	3	5	2	6	3.9	-2.1	-0.07	-0.06	0	0	0	0	0	0
3/13/2025 14:10	66502	SMAN_T2	20	35	15	0.42	0.43	0.01	1.95	1.36	0	0	0	0	0	0
3/13/2025 14:10	66501	SMAN_T2	2	2	0	0.9	1.25	0.35	0	0	0	0	0	0	0	0
3/13/2025 14:10	66503	SMAN_T2	2	2	0	1.1	1.25	0.15	0	0	0	0	0	0	0	0
3/13/2025 14:11	67401	WAKE_T2	6	21	15	0.28	0.24	-0.04	-2.24	-2.29	0	0	0	0	0	0
3/13/2025 14:11	66503	SMAN_T2	2	2	0	1.1	1.25	0.15	0	0	0	0	0	0	0	0
3/13/2025 14:11	66505	SMAN_T2	5	6	1	0.74	0.65	-0.09	0	0	0	0	0	0	0	0
3/13/2025 14:11	66504	SMAN_T2	37	41	4	0.38	0.31	-0.07	0	0	0	0	0	0	0	0
3/13/2025 14:11	18001	ZION_T1	7	10	3	0.56	0.69	0.13	0	0	0	0	0	0	0	0
3/13/2025 14:11	67402	WAKE_T2	1	2	1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/13/2025 14:11	66501	SMAN_T2	2	2	0	0.9	1.25	0.35	0	0	0	0	0	0	0	0
3/13/2025 14:11	66502	SMAN_T2	20	35	15	0.42	0.43	0.01	1.17	0.82	0	0	0	0	0	0
3/13/2025 14:12	66505	SMAN_T2	5	6	1	0.74	0.65	-0.09	0	0	0	0	0	0	0	0
3/13/2025 14:12	66501	SMAN_T2	2	2	0	0.9	1.25	0.35	0	0	0	0	0	0	0	0
3/13/2025 14:12	66504	SMAN_T2	37	41	4	0.38	0.31	-0.07	0	0	0	0	0	0	0	0
3/13/2025 14:12	66502	SMAN_T2	20	35	15	0.42	0.43	0.01	0	0	0	0	0	0	0	0
3/13/2025 14:12	66503	SMAN_T2	2	2	0	1.1	1.25	0.15	0	0	0	0	0	0	0	0
3/13/2025 14:13	67402	WAKE_T2	1	2	1	0.4	0.2	-0.2	0.4	0.39	1	1	0	600	600	0
3/13/2025 14:13	67401	WAKE_T2	6	21	15	0.28	0.24	-0.04	0	0	0	0	0	0	0	0
3/13/2025 14:14	10101	ALLE_T3	2	2	0	5.3	4.05	-1.25	0	0	0	0	0	0	0	0
3/13/2025 14:14	66501	SMAN_T2	2	2	0	0.9	1.25	0.35	0	0	0	0	0	0	0	0
3/13/2025 14:14	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 14:14	10602	BLGL_T2	3	3	0	0.77	1	0.23	0.57	0.57	0	0	0	0	0	0
3/13/2025 14:14	66505	SMAN_T2	5	6	1	0.74	0.65	-0.09	0	0	0	0	0	0	0	0
3/13/2025 14:14	66503	SMAN_T2	2	2	0	1.1	1.25	0.15	0	0	0	0	0	0	0	0
3/13/2025 14:14	66502	SMAN_T2	20	35	15	0.42	0.43	0.01	0.39	0.27	0	0	0	0	0	0
3/13/2025 14:14	66504	SMAN_T2	37	41	4	0.38	0.31	-0.07	0	0	0	0	0	0	0	0
3/13/2025 14:14	10109	ALLE_T3	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/13/2025 14:16	46001	BERW_T1	0	0	0	0	0	0	0.61	0.64	0	0	0	0	0	0
3/13/2025 14:16	46005	BERW_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
3/13/2025 14:17	44502	HAMI_T2	2	2	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
3/13/2025 14:17	44505	HAMI_T2	6	7	1	0.37	0.11	-0.26	0	0	0	0	0	0	0	0
3/13/2025 14:18	61702	ELIZ_T2	3	2	-1	1.03	0.9	-0.13	-0.79	-0.77	1	1	0	300	300	0
3/13/2025 14:18	61704	ELIZ_T2	8	1	-7	0.31	0.5	0.19	0	0	0	0	0	0	0	0
3/13/2025 14:19	44505	HAMI_T2	6	7	1	0.37	0.11	-0.26	-0.01	-0.01	0	0	0	0	0	0
3/13/2025 14:19	44502	HAMI_T2	2	2	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
3/13/2025 14:20	44505	HAMI_T2	6	7	1	0.37	0.11	-0.26	-0.01	-0.01	0	0	0	0	0	0
3/13/2025 14:20	44502	HAMI_T2	2	2	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
3/13/2025 14:20	50624	CCTY_T2	2	2	0	5.95	6.05	0.1	0	0	0	0	0	0	0	0
3/13/2025 14:20	50625	CCTY_T2	7	7	0	3.17	3.11	-0.06	0	0	0	0	0	0	0	0
3/13/2025 14:20	50623	CCTY_T2	6	6	0	5.62	5.68	0.06	0	0	0	0	0	0	0	0
3/13/2025 14:20	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 14:21	54201	PENN_T1	10	7	-3	0.6	0.79	0.19	0.15	0.16	0	0	0	0	0	0
3/13/2025 14:21	46503	LOHA_T1	0	0	0	0	0	0	-1.24	-1.26	0	0	0	0	0	0
3/13/2025 14:21	46504	LOHA_T1	9	19	10	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
3/13/2025 14:21	54203	PENN_T1	31	27	-4	0.73	0.82	0.09	0	0	0	0	0	0	0	0
3/13/2025 14:21	46506	LOHA_T1	4	4	0	3.93	4.23	0.3	0	0	0	0	0	0	0	0
3/13/2025 14:22	52402	GRPA_T2	87	103	16	0.4	0.44	0.04	0	0	0	0	0	0	0	0
3/13/2025 14:22	54201	PENN_T1	10	7	-3	0.6	0.79	0.19	0	0	0	0	0	0	0	0
3/13/2025 14:22	58401	MORO_T1	4	10	6	0.2	0.31	0.11	-1.12	-1.12	1	1	0	600	600	0
3/13/2025 14:22	52401	GRPA_T2	6	3	-3	0.38	0.5	0.12	0	0	0	0	0	0	0	0
3/13/2025 14:22	52403	GRPA_T2	158	94	-64	0.6	0.51	-0.09	-0.62	-0.64	0	0	0	0	0	0
3/13/2025 14:22	54206	PENN_T2	8	6	-2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
3/13/2025 14:22	54202	PENN_T2	7	10	3	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
3/13/2025 14:22	54203	PENN_T1	31	27	-4	0.73	0.82	0.09	0.57	0.59	0	0	0	0	0	0
3/13/2025 14:23	54206	PENN_T2	8	6	-2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
3/13/2025 14:23	54202	PENN_T2	7	10	3	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
3/13/2025 14:23	54201	PENN_T1	10	7	-3	0.6	0.79	0.19	0.16	0.15	0	0	0	0	0	0
3/13/2025 14:23	54203	PENN_T1	31	27	-4	0.73	0.82	0.09	0	0	0	0	0	0	0	0
3/13/2025 14:24	54201	PENN_T1	10	7	-3	0.6	0.79	0.19	0	0	0	0	0	0	0	0
3/13/2025 14:24	54206	PENN_T2	8	6	-2	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
3/13/2025 14:24	54202	PENN_T2	7	10	3	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
3/13/2025 14:24	54203	PENN_T1	31	27	-4	0.73	0.82	0.09	0.57	0.59	0	0	0	0	0	0
3/13/2025 14:25	48303	ORWI_T2	5	2	-3	0.56	1	0.44	0	0	0	0	0	0	0	0
3/13/2025 14:25	13901	SEID_T1	1	0	-1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/13/2025 14:25	13905	SEID_T1	4	2	-2	0.43	0.45	0.02	0	0	0	0	0	0	0	0
3/13/2025 14:25	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 14:25	13902	SEID_T1	2	2	0	0.95	0.45	-0.5	0	0	0	0	0	0	0	0
3/13/2025 14:25	48302	ORWI_T2	5	4	-1	3.88	4.78	0.9	-0.06	-0.05	0	0	0	0	0	0
3/13/2025 14:26	67902	WNHO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 14:26	59201	THOM_T1	14	2	-12	0.34	0.85	0.51	0	0	0	0	0	0	0	0
3/13/2025 14:26	67901	WNHO_T2	2	2	0	1.25	1.05	-0.2	0	0	0	0	0	0	0	0
3/13/2025 14:26	60201	ATGL_T2	17	19	2	0.19	0.22	0.03	-0.03	-0.08	0	0	0	0	0	0
3/13/2025 14:26	59202	THOM_T1	138	68	-70	0.36	0.4	0.04	0	0	0	0	0	0	0	0
3/13/2025 14:27	59201	THOM_T1	14	2	-12	0.34	0.85	0.51	0	0	0	0	0	0	0	0
3/13/2025 14:27	59202	THOM_T1	138	68	-70	0.36	0.4	0.04	0	0	0	0	0	0	0	0
3/13/2025 14:29	61505	EPET_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/13/2025 14:29	61502	EPET_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 14:29	61503	EPET_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/13/2025 14:30	40502	CRES_T2	14	16	2	0.31	0.3	-0.01	0.17	0.15	0	0	0	0	0	0
3/13/2025 14:30	40501	CRES_T2	19	30	11	0.46	0.38	-0.08	0	0	0	0	0	0	0	0
3/13/2025 14:30	60201	ATGL_T2	4	46	42	0.35	0.17	-0.18	-0.03	-0.08	0	0	0	0	0	0
3/13/2025 14:31	41601	CLEV_T1	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
3/13/2025 14:31	40504	CRES_T1	2	17	15	0.65	0.17	-0.48	0	0	0	0	0	0	0	0
3/13/2025 14:31	41602	CLEV_T1	2	4	2	0.35	0.53	0.18	0	0	0	0	0	0	0	0
3/13/2025 14:31	40505	CRES_T1	7	14	7	0.31	0.23	-0.08	0	0	0	0	0	0	0	0
3/13/2025 14:32	41602	CLEV_T1	2	4	2	0.35	0.53	0.18	0	0	0	0	0	0	0	0
3/13/2025 14:32	40504	CRES_T1	2	17	15	0.65	0.17	-0.48	0	0	0	0	0	0	0	0
3/13/2025 14:32	61506	EPET_T2	0	0	0	0	0	0	-0.6	-0.64	1	1	0	900	900	0
3/13/2025 14:32	40505	CRES_T1	7	14	7	0.31	0.23	-0.08	0.22	0.23	0	0	0	0	0	0
3/13/2025 14:32	61502	EPET_T1	1	2	1	0.1	0.1	0	-1.13	-1.1	0	0	0	0	0	0
3/13/2025 14:32	41601	CLEV_T1	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
3/13/2025 14:32	61505	EPET_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/13/2025 14:32	61504	EPET_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/13/2025 14:33	40501	CRES_T2	19	30	11	0.46	0.38	-0.08	0.75	0.7	0	0	0	0	0	0
3/13/2025 14:33	40504	CRES_T1	2	17	15	0.65	0.17	-0.48	0	0	0	0	0	0	0	0
3/13/2025 14:33	41601	CLEV_T1	2	2	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
3/13/2025 14:33	40502	CRES_T2	14	16	2	0.31	0.3	-0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/13/2025 14:33	41602	CLEV_T1	2	4	2	0.35	0.53	0.18	0	0	0	0	0	0	0	0
3/13/2025 14:33	59202	THOM_T1	65	41	-24	0.41	0.41	0	0	0	0	0	0	0	0	0
3/13/2025 14:33	59201	THOM_T1	2	2	0	0.85	0.75	-0.1	0	0	0	0	0	0	0	0
3/13/2025 14:33	40505	CRES_T1	7	14	7	0.31	0.23	-0.08	0.22	0.23	0	0	0	0	0	0
3/13/2025 14:34	40504	CRES_T1	2	17	15	0.65	0.17	-0.48	0	0	0	0	0	0	0	0
3/13/2025 14:34	40505	CRES_T1	7	14	7	0.31	0.23	-0.08	0.22	0.23	0	0	0	0	0	0
3/13/2025 14:37	41002	LAUR_T2	59	61	2	0.72	0.85	0.13	-1.01	-1.01	0	0	0	0	0	0
3/13/2025 14:37	41902	REED_T1	6	7	1	0.67	0.69	0.02	2.02	1.88	0	0	0	0	0	0
3/13/2025 14:37	15601	NSTR_T2	7	6	-1	0.27	0.27	0	0	0	0	0	0	0	0	0
3/13/2025 14:37	15602	NSTR_T2	2	1	-1	2.4	0.6	-1.8	0	0	0	0	0	0	0	0
3/13/2025 14:37	41001	LAUR_T2	86	88	2	0.78	0.94	0.16	0	0	0	0	0	0	0	0
3/13/2025 14:38	41902	REED_T1	6	7	1	0.67	0.69	0.02	1.01	0.94	0	0	0	0	0	0
3/13/2025 14:39	66502	SMAN_T2	25	33	8	0.46	0.41	-0.05	0.25	-0.05	0	0	0	0	0	0
3/13/2025 14:39	55002	NEWP_T1	13	12	-1	0.94	0.93	-0.01	-0.26	-0.27	0	0	0	0	0	0
3/13/2025 14:39	66501	SMAN_T2	2	2	0	0.95	1.2	0.25	0	0	0	0	0	0	0	0
3/13/2025 14:39	15602	NSTR_T2	2	1	-1	2.4	0.6	-1.8	0	0	0	0	0	0	0	0
3/13/2025 14:39	15601	NSTR_T2	7	6	-1	0.27	0.27	0	0	0	0	0	0	0	0	0
3/13/2025 14:39	66505	SMAN_T2	5	6	1	0.54	0.8	0.26	0	0	0	0	0	0	0	0
3/13/2025 14:39	66504	SMAN_T2	24	24	0	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
3/13/2025 14:39	66503	SMAN_T2	2	3	1	1.25	0.9	-0.35	0	0	0	0	0	0	0	0
3/13/2025 14:39	55001	NEWP_T1	4	1	-3	0.45	1	0.55	0	0	0	0	0	0	0	0
3/13/2025 14:40	44302	BEAV_T2	10	19	9	0.77	0.62	-0.15	0	0	0	0	0	0	0	0
3/13/2025 14:43	44301	BEAV_T2	5	23	18	0.46	0.3	-0.16	0.11	0.05	1	1	0	600	600	0
3/13/2025 14:41	54504	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 14:41	54501	ENOL_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
3/13/2025 14:41	54505	ENOL_T2	2	2	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/13/2025 14:41	41902	REED_T1	6	7	1	0.67	0.69	0.02	1.01	0.94	0	0	0	0	0	0
3/13/2025 14:41	54502	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
3/13/2025 14:41	48303	ORWI_T2	2	2	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/13/2025 14:41	48302	ORWI_T2	4	5	1	4.78	3.88	-0.9	-0.05	-0.09	0	0	0	0	0	0
3/13/2025 14:42	66503	SMAN_T2	2	3	1	1.25	0.9	-0.35	0	0	0	0	0	0	0	0
3/13/2025 14:42	66502	SMAN_T2	25	33	8	0.46	0.41	-0.05	0	0	0	0	0	0	0	0
3/13/2025 14:42	66504	SMAN_T2	24	24	0	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
3/13/2025 14:42	66501	SMAN_T2	2	2	0	0.95	1.2	0.25	0	0	0	0	0	0	0	0
3/13/2025 14:42	66505	SMAN_T2	5	6	1	0.54	0.8	0.26	0	0	0	0	0	0	0	0
3/13/2025 14:43	52401	GRPA_T2	2	3	1	0.65	0.4	-0.25	0	0	0	0	0	0	0	0
3/13/2025 14:43	44301	BEAV_T2	5	23	18	0.46	0.3	-0.16	0	0	0	0	0	0	0	0
3/13/2025 14:43	52403	GRPA_T2	83	92	9	0.48	0.48	0	-0.64	-0.64	0	0	0	0	0	0
3/13/2025 14:43	44302	BEAV_T2	10	19	9	0.77	0.62	-0.15	0	0	0	0	0	0	0	0
3/13/2025 14:43	14801	TREI_T2	127	154	27	0.42	0.4	-0.02	0	0	0	0	0	0	0	0
3/13/2025 14:43	47104	MARL_T1	0	0	0	0	0	0	-0.94	-0.92	0	0	0	0	0	0
3/13/2025 14:43	21204	ECAR_T2	1	1	0	0	0	0	-0.6	-0.61	0	0	0	0	0	0
3/13/2025 14:43	52402	GRPA_T2	19	107	88	0.44	0.56	0.12	0	0	0	0	0	0	0	0
3/13/2025 14:43	21206	ECAR_T2	1	1	0	7.1	7.3	0.2	0	0	0	0	0	0	0	0
3/13/2025 14:43	14802	TREI_T2	40	58	18	0.39	0.34	-0.05	0.3	0.29	0	0	0	0	0	0
3/13/2025 14:44	44301	BEAV_T2	5	23	18	0.46	0.3	-0.16	0	0	0	0	0	0	0	0
3/13/2025 14:44	44302	BEAV_T2	10	19	9	0.77	0.62	-0.15	0.52	0.6	0	0	0	0	0	0
3/13/2025 14:45	44301	BEAV_T2	19	25	6	0.34	0.29	-0.05	0.11	0.05	1	1	0	600	600	0
3/13/2025 14:45	44302	BEAV_T2	17	22	5	0.61	0.56	-0.05	0.26	0.3	0	0	0	0	0	0
3/13/2025 14:46	44302	BEAV_T2	17	22	5	0.61	0.56	-0.05	0	0	0	0	0	0	0	0
3/13/2025 14:46	44301	BEAV_T2	19	25	6	0.34	0.29	-0.05	0	0	0	0	0	0	0	0
3/13/2025 14:48	44301	BEAV_T2	19	25	6	0.34	0.29	-0.05	0.11	0.05	1	1	0	600	600	0
3/13/2025 14:48	44302	BEAV_T2	17	22	5	0.61	0.56	-0.05	0	0	0	0	0	0	0	0
3/13/2025 14:49	65503	MOJO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 14:53	66504	SMAN_T2	22	26	4	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/13/2025 14:53	66502	SMAN_T2	33	34	1	0.41	0.41	0	0	0	0	0	0	0	0	0
3/13/2025 14:53	66505	SMAN_T2	6	0	0	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
3/13/2025 14:53	66503	SMAN_T2	3	2	-1	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/13/2025 14:53	66501	SMAN_T2	2	2	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
3/13/2025 14:54	66503	SMAN_T2	3	2	-1	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/13/2025 14:54	66504	SMAN_T2	22	26	4	0.27	0.28	0.01	-0.52	-0.5	0	0	0	0	0	0
3/13/2025 14:54	66505	SMAN_T2	6	0	0	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
3/13/2025 14:54	66502	SMAN_T2	33	34	1	0.41	0.41	0	0	0	0	0	0	0	0	0
3/13/2025 14:54	66501	SMAN_T2	2	2	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
3/13/2025 14:55	61505	EPET_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/13/2025 14:55	61503	EPET_T1	0	0	0	0	0	0	-0.33	-0.32	0	0	0	0	0	0
3/13/2025 14:55	61502	EPET_T1	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
3/13/2025 14:57	44601	SALE_T2	0	0	0	0	0	0	0.36	1.33	0	0	0	0	0	0
3/13/2025 14:58	67402	WAKE_T2	3	9	6	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
3/13/2025 14:58	67401	WAKE_T2	14	81	67	0.25	0.33	0.08	0	0	0	0	0	0	0	0
3/13/2025 14:59	67401	WAKE_T2	14	81	67	0.25	0.33	0.08	0	0	0	0	0	0	0	0
3/13/2025 14:59	44202	POIN_T2	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
3/13/2025 14:59	67402	WAKE_T2	3	9	6	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
3/13/2025 14:59	44203	POIN_T2	2	1	-1	0.35	0.1	-0.25	-0.77	-0.86	2	2	0	2100	2100	0
3/13/2025 15:04	44203	POIN_T2	0	1	1	0	0.1	0.1	-0.77	-0.86	2	2	0	2100	2100	0
3/13/2025 15:04	52403	GRPA_T2	51	72	21	0.41	0.46	0.05	-0.64	-0.62	0	0	0	0	0	0
3/13/2025 15:04	52402	GRPA_T2	103	122	19	0.55	0.69	0.14	0	0	0	0	0	0	0	0
3/13/2025 15:04	66903	SHIL_T2	4	21	17	0.25	0.19	-0.06	0	0	0	0	0	0	0	0
3/13/2025 15:04	66902	SHIL_T2	4	8	4	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/13/2025 15:04	44202	POIN_T2	1	2	1	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/13/2025 15:04	66901	SHIL_T2	6	5	-1	1.12	0.42	-0.7	-0.38	-0.41	0	0	0	0	0	0
3/13/2025 15:04	52401	GRPA_T2	2	5	3	0.5	0.44	-0.06	0	0	0	0	0	0	0	0
3/13/2025 15:05	41202	KENM_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/13/2025 15:05	41204	KENM_T2	0	0	0	0	0	0	-0.02	-0.07	0	0	0	0	0	0
3/13/2025 15:07	66502	SMAN_T2	23	34	11	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
3/13/2025 15:07	66504	SMAN_T2	16	24	8	0.29	0.3	0.01	-0.5	-0.55	0	0	0	0	0	0
3/13/2025 15:07	66501	SMAN_T2	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
3/13/2025 15:07	66503	SMAN_T2	2	2	0	1	1.05	0.05	0	0	0	0	0	0	0	0
3/13/2025 15:07	66505	SMAN_T2	5	5	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/13/2025 15:07	64101	REFR_T1	9	26	17	0.67	0.35	-0.32	0	0	0	0	0	0	0	0
3/13/2025 15:08	64101	REFR_T1	9	26	17	0.67	0.35	-0.32	-0.32	-0.36	0	0	0	0	0	0
3/13/2025 15:08	65503	MOJO_T2	0	0	0	0	0	0	0.35	-0.06	0	0	0	0	0	0
3/13/2025 15:09	64101	REFR_T1	9	26	17	0.67	0.35	-0.32	-0.32	-0.36	0	0	0	0	0	0
3/13/2025 15:10	64101	REFR_T1	9	26	17	0.67	0.35	-0.32	-0.16	-0.18	0	0	0	0	0	0
3/13/2025 15:11	66503	SMAN_T2	2	2	0	1	1.05	0.05	0	0	0	0	0	0	0	0
3/13/2025 15:11	66505	SMAN_T2	5	5	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/13/2025 15:11	15104	UPHA_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
3/13/2025 15:11	66501	SMAN_T2	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
3/13/2025 15:11	64101	REFR_T1	9	26	17	0.67	0.35	-0.32	-0.48	-0.54	0	0	0	0	0	0
3/13/2025 15:11	66502	SMAN_T2	23	34	11	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
3/13/2025 15:11	66504	SMAN_T2	16	24	8	0.29	0.3	0.01	0	0	0	0	0	0	0	0
3/13/2025 15:11	15103	UPHA_T2	19	103	84	0.44	0.23	-0.21	0.28	0.29	0	0	0	0	0	0
3/13/2025 15:12	64101	REFR_T1	9	26	17	0.67	0.35	-0.32	-0.16	-0.18	0	0	0	0	0	0
3/13/2025 15:12	15102	UPHA_T1	12	12	0	0.53	0.62	0.09	0	0	0	0	0	0	0	0
3/13/2025 15:12	15101	UPHA_T1	2	4	2	1.05	0.65	-0.4	0.64	0.64	0	0	0	0	0	0
3/13/2025 15:13	15104	UPHA_T2	0	3	3	0	0.23	0.23	0.62	0.59	0	0	0	0	0	0
3/13/2025 15:13	15103	UPHA_T2	19	103	84	0.44	0.23	-0.21	0	0	0	0	0	0	0	0
3/13/2025 15:14	15104	UPHA_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
3/13/2025 15:14	41602	CLEV_T1	4	3	-1	0.53	0.63	0.1	0	0	0	0	0	0	0	0
3/13/2025 15:14	41601	CLEV_T1	2	3	1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
3/13/2025 15:14	14802	TREI_T2	33	77	44	0.34	0.26	-0.08	0	0	0	0	0	0	0	0
3/13/2025 15:14	15103	UPHA_T2	19	103	84	0.44	0.23	-0.21	0	0	0	0	0	0	0	0
3/13/2025 15:14	14801	TREI_T2	106	136	30	0.41	0.47	0.06	0	0	0	0	0	0	0	0
3/13/2025 15:19	67102	SPRI_T2	7	3	-4	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
3/13/2025 15:19	67106	SPRI_T2	5	2	-3	0.18	0.35	0.17	0	0	0	0	0	0	0	0
3/13/2025 15:19	20603	GRWO_T2	0	0	0	0	0	0	0.34	0.37	0	0	0	0	0	0
3/13/2025 15:19	67101	SPRI_T2	1	1	0	2	1.7	-0.3	0	0	0	0	0	0	0	0
3/13/2025 15:24	64101	REFR_T1	25	11	-14	0.36	0.52	0.16	-0.18	-0.22	0	0	0	0	0	0
3/13/2025 15:25	52403	GRPA_T2	72	20	-52	0.46	0.68	0.22	0.59	0.6	0	0	0	0	0	0
3/13/2025 15:25	52402	GRPA_T2	122	117	-5	0.68	0.6	-0.08	0	0	0	0	0	0	0	0
3/13/2025 15:25	52401	GRPA_T2	5	2	-3	0.44	0.5	0.06	0	0	0	0	0	0	0	0
3/13/2025 15:29	45501	DERR_T2	6	11	5	0.22	0.26	0.04	-0.04	-0.04	2	2	0	1800	1800	0
3/13/2025 15:30	67101	SPRI_T2	1	1	0	1.7	1.6	-0.1	0	0	0	0	0	0	0	0
3/13/2025 15:30	67106	SPRI_T2	1	2	1	0.5	0.35	-0.15	-1.33	-1.34	1	1	0	900	900	0
3/13/2025 15:30	67102	SPRI_T2	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
3/13/2025 15:31	45501	DERR_T2	11	5	-6	0.26	0.34	0.08	-0.04	-0.04	2	2	0	1800	1800	0
3/13/2025 15:32	46003	BERW_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/13/2025 15:32	46002	BERW_T2	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0	0
3/13/2025 15:32	46004	BERW_T2	2	2	0	0.85	0.85	0	-0.56	-0.58	0	0	0	0	0	0
3/13/2025 15:33	44502	HAMI_T2	2	2	0	1.9	2.2	0.3	0.02	0.02	0	0	0	0	0	0
3/13/2025 15:34	63501	HEID_TBK1-2	15	71	56	0.41	0.28	-0.13	0	-0.04	1	1	0	900	900	0
3/13/2025 15:35	65503	MOJO_T2	0	0	0	0	0	0	-0.03	0.01	0	0	0	0	0	0
3/13/2025 15:35	58401	MORO_T1	6	7	1	0.28	0.3	0.02	-1.14	-1.17	1	1	0	600	600	0
3/13/2025 15:35	63501	HEID_TBK1-2	15	71	56	0.41	0.28	-0.13	0	-0.04	1	1	0	900	900	0
3/13/2025 15:35	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 15:37	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 15:37	58401	MORO_T1	6	7	1	0.28	0.3	0.02	0	0	0	0	0	0	0	0
3/13/2025 15:40	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 15:40	58401	MORO_T1	6	7	1	0.28	0.3	0.02	-1.17	-1.15	1	1	0	600	600	0
3/13/2025 15:43	55105	WERT_T1	1	2	1	0.2	0.2	0	-0.79	-0.82	1	1	0	900	900	0
3/13/2025 15:45	66505	SMAN_T2	4	7	3	0.75	0.66	-0.09	0	0	0	0	0	0	0	0
3/13/2025 15:45	66504	SMAN_T2	6	16	10	0.25	0.26	0.01	0	0	0	0	0	0	0	0
3/13/2025 15:45	66501	SMAN_T2	1	7	6	0.1	0.26	0.16	0	0	0	0	0	0	0	0
3/13/2025 15:45	66503	SMAN_T2	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
3/13/2025 15:45	60404	DILL_T2	1	0	-1	3.9	0	-3.9	-0.42	-0.31	2	2	0	2400	2400	0
3/13/2025 15:45	66502	SMAN_T2	14	18	4	0.34	0.41	0.07	0	0	0	0	0	0	0	0
3/13/2025 15:47	60404	DILL_T2	1	0	-1	3.9	0	-3.9	-0.21	-0.16	1	1	0	1200	1200	0
3/13/2025 15:51	52403	GRPA_T2	3	58	55	1	0.32	-0.68	-0.6	-0.55	0	0	0	0	0	0
3/13/2025 15:51	52402	GRPA_T2	114	22	-92	0.59	0.39	-0.2	0	0	0	0	0	0	0	0
3/13/2025 15:51	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/13/2025 15:51	52401	GRPA_T2	1	2	1	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
3/13/2025 15:54	10102	ALLE_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
3/13/2025 15:54	43801	SWIL_T1	2	3	1	3.1	2.13	-0.97	0	0	0	0	0	0	0	0
3/13/2025 15:54	43802	SWIL_T1	0	0	0	0	0	0	-0.29	-0.29	1	1	0	600	600	0
3/13/2025 15:54	10204	ALLE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 15:54	10206	ALLE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/13/2025 15:54	10203	ALLE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 15:55	10203	ALLE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 15:55	10102	ALLE_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
3/13/2025 15:55	10206	ALLE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/13/2025 15:55	10204	ALLE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 15:55	64101	REFR_T1	9	10	1	0.56	0.46	-0.1	-0.17	-0.16	0	0	0	0	0	0
3/13/2025 15:56	42504	ALTA_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/13/2025 15:56	10102	ALLE_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
3/13/2025 15:56	10206	ALLE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/13/2025 15:56	60201	ATGL_T2	2	36	34	0.25	0.17	-0.08	0	0	0	0	0	0	0	0
3/13/2025 15:56	10204	ALLE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 15:56	44301	BEAV_T2	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 15:56	10203	ALLE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 15:56	20103	AVOC_T1	0	0	0	0	0	0	-0.36	-0.36	0	0	0	0	0	0
3/13/2025 15:56	42501	ALTA_T2	1	9	8	0.7	0.18	-0.52	0.56	0.64	0	0	0	0	0	0
3/13/2025 15:56	44302	BEAV_T2	8	8	0	0.51	0.53	0.02	0	0	0	0	0	0	0	0
3/13/2025 15:57	42504	ALTA_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
3/13/2025 15:57	61102	BERK_T5	2	4	2	0.3	0.3	0	0	0	0	0	0	0	0	0
3/13/2025 15:57	10206	ALLE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/13/2025 15:57	10102	ALLE_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
3/13/2025 15:57	10204	ALLE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 15:57	61103	BERK_T5	14	151	137	0.21	0.19	-0.02	0.03	0.03	0	0	0	0	0	0
3/13/2025 15:57	42501	ALTA_T2	1	9	8	0.7	0.18	-0.52	1.12	1.28	0	0	0	0	0	0
3/13/2025 15:57	10203	ALLE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 15:57	42503	ALTA_T2	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
3/13/2025 15:57	61101	BERK_T5	4	14	10	0.55	0.26	-0.29	0	0	0	0	0	0	0	0
3/13/2025 15:58	10204	ALLE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 15:58	42501	ALTA_T2	1	9	8	0.7	0.18	-0.52	0	0	0	0	0	0	0	0
3/13/2025 15:58	16102	BING_T2	6	6	0	0.73	0.55	-0.18	0	0	0	0	0	0	0	0
3/13/2025 15:58	42503	ALTA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 15:58	16101	BING_T2	2	2	0	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
3/13/2025 15:58	42504	ALTA_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
3/13/2025 15:58	44302	BEAV_T2	8	8	0	0.51	0.53	0.02	0.54	0.6	0	0	0	0	0	0
3/13/2025 15:58	10102	ALLE_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
3/13/2025 15:58	44301	BEAV_T2	1	0	-1	0	0	0.14	0.25	1	1	0	0	600	600	0
3/13/2025 15:58	16103	BING_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/13/2025 15:58	10203	ALLE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 15:58	10206	ALLE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/13/2025 15:59	61101	BERK_T5	4	14	10	0.55	0.26	-0.29	-0.79	-0.78	0	0	0	0	0	0
3/13/2025 15:59	46206	DANV_T2	0	0	0	0	0	0	1.8	1.8	2	2	0	2100	2100	0
3/13/2025 15:59	46203	DANV_T2	161	173	12	0.67	0.78	0.11	0	0	0	0	0	0	0	0
3/13/2025 15:59	61102	BERK_T5	2	4	2	0.3	0.3	0	0	0	0	0	0	0	0	0
3/13/2025 15:59	10204	ALLE_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 15:59	42504	ALTA_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
3/13/2025 15:59	10206	ALLE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/13/2025 15:59	42501	ALTA_T2	1	9	8	0.7	0.18	-0.52	1.12	1.28	0	0	0	0	0	0
3/13/2025 15:59	61103	BERK_T5	14	151	137	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
3/13/2025 15:59	10102	ALLE_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
3/13/2025 15:59	15001	BLMO_T1	2	4	2	0.25	0.28	0.03	0	0	0	0	0	0	0	0
3/13/2025 15:59	10203	ALLE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 16:00	61101	BERK_T5	3	14	11	0.47	0.25	-0.22	0	0	0	0	0	0	0	0
3/13/2025 16:00	67102	SPRI_T2	2	16	14	0.15	0.23	0.08	0	0	0	0	0	0	0	0
3/13/2025 16:00	42501	ALTA_T2	1	9	8	0.6	0.18	-0.42	2.24	2.55	0	0	0	0	0	0
3/13/2025 16:00	15001	BLMO_T1	4	4	0	0.2	0.28	0.08	0	0	0	0	0	0	0	0
3/13/2025 16:00	16102	BING_T2	6	5	-1	0.45	0.64	0.19	-0.04	-0.02	0	0	0	0	0	0
3/13/2025 16:00	61102	BERK_T5	2	4	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/13/2025 16:00	67106	SPRI_T2	2	8	6	0.35	0.21	-0.14	-1.33	-1.32	1	1	0	900	900	0
3/13/2025 16:00	16101	BING_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/13/2025 16:00	51904	COPA_T1	6	6	0	1.25	1.13	-0.12	0	0	0	0	0	0	0	0
3/13/2025 16:00	62106	ELAN_T1	1	2	1	0.6	0.6	0	0	0	0	0	0	0	0	0
3/13/2025 16:00	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 16:00	61103	BERK_T5	12	151	139	0.22	0.19	-0.03	0.03	0.03	0	0	0	0	0	0
3/13/2025 16:00	42504	ALTA_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/13/2025 16:00	44301	BEAV_T2	0	0	0	0	0	0.14	0.25	1	1	0	0	600	600	0
3/13/2025 16:00	16103	BING_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/13/2025 16:00	44302	BEAV_T2	6	8	2	0.55	0.53	-0.02	0.27	0.3	0	0	0	0	0	0
3/13/2025 16:00	51906	COPA_T1	0	1	1	0	0	0	-1.14	-1.12	2	2	0	1500	1500	0
3/13/2025 16:00	60201	ATGL_T2	2	37	35	0.2	0.16	-0.04	0.16	-0.04	0	0	0	0	0	0
3/13/2025 16:00	40802	EXCH_T2	0	2	2	0	0.15	0.15	0.11	0.11	0	0	0	0	0	0
3/13/2025 16:00	67101	SPRI_T2	1	2	1	1.4	0.85	-0.55	0	0	0	0	0	0	0	0
3/13/2025 16:00	62105	ELAN_T1	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
3/13/2025 16:01	61101	BERK_T5	3	14	11	0.47	0.25	-0.22	-0.79	-0.78	0	0	0	0	0	0
3/13/2025 16:01	16102	BING_T2	6	5	-1	0.45	0.64	0.19	0	0	0	0	0	0	0	0
3/13/2025 16:01	15001	BLMO_T1	4	4	0	0.2	0.28	0.08	0	0	0	0	0	0	0	0
3/13/2025 16:01	62105	ELAN_T1	1	3	2	0.2	0.2	0	0.33	0.32	0	0	0	0	0	0
3/13/2025 16:01	61103	BERK_T5	12	151	139	0.22	0.19	-0.03	0.08	0.08	0	0	0	0	0	0
3/13/2025 16:01	63501	HEID_TBK1-2	69	92	23	0.28	0.29	0.01	-0.14	-0.28	1	1	0	900	900	0
3/13/2025 16:01	42501	ALTA_T2	1	9	8	0.6	0.18	-0.42	1.12	1.28	0	0	0	0	0	0
3/13/2025 16:01	44502	HAMI_T2	2	2	0	2.2	2.3	0.1	0.04	0.04	0	0	0	0	0	0
3/13/2025 16:01	44505	HAMI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 16:01	61102	BERK_T5	2	4	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/13/2025 16:01	16103	BING_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/13/2025 16:01	45502	DERR_T2	0	0	0	0	0	0	-0.49	-0.53	0	0	0	0	0	0
3/13/2025 16:01	46206	DANV_T2	0	0	0	0	0	0	3.6	3.6	4	4	0	4200	4200	0
3/13/2025 16:01	16101	BING_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/13/2025 16:01	42504	ALTA_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/13/2025 16:01	42503	ALTA_T2	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
3/13/2025 16:01	23901	EFMO_T2	1	1	0	0.1	0.4	0.3	-0.39	-0.36	0	0	0	0	0	0
3/13/2025 16:01	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 16:01	40802	EXCH_T2	0	2	2	0	0.15	0.15	0.11	0.11	0	0	0	0	0	0
3/13/2025 16:01	46203	DANV_T2	162	170	8	0.79	0.71	-0.08	0	0	0	0	0	0	0	0
3/13/2025 16:01	62106	ELAN_T1	1	2	1	0.6	0.6	0	0.5	0.33	0	0	0	0	0	0
3/13/2025 16:01	45501	DERR_T2	3	3	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/13/2025 16:02	44302	BEAV_T2	6	8	2	0.55	0.53	-0.02	0	0	0	0	0	0	0	0
3/13/2025 16:02	41304	FISH_T2	1	1	0	0	0	0	0.1	0.13	0	0	0	0	0	0
3/13/2025 16:02	46206	DANV_T2	0	0	0	0	0	0	1.8	1.8	2	2	0	2100	2100	0
3/13/2025 16:02	42501	ALTA_T2	1	9	8	0.6	0.18	-0.42	0.56	0.64	0	0	0	0	0	0
3/13/2025 16:02	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/13/2025 16:02	42504	ALTA_T2	1	3	2	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/13/2025 16:02	44505	HAMI_T2	0	1	1	0	0.1	0.1	-0.2	-0.19	0	0	0	0	0	0
3/13/2025 16:02	44301	BEAV_T2	0	0	0	0	0	0	0.14	0.25	1	1	0	600	600	0
3/13/2025 16:02	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 16:02	62106	ELAN_T1	1	2	1	0.6	0.6	0	0.5	0.33	0	0	0	0	0	0
3/13/2025 16:02	52403	GRPA_T2	26	51	25	0.49	0.29	-0.2	-0.55	-0.52	0	0	0	0	0	0
3/13/2025 16:02	52402	GRPA_T2	21	9	-12	0.39	0.49	0.1	0	0	0	0	0	0	0	0
3/13/2025 16:02	16103	BING_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/13/2025 16:02	46203	DANV_T2	162	170	8	0.79	0.71	-0.08	0	0	0	0	0	0	0	0
3/13/2025 16:02	16101	BING_T2	2	2	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/13/2025 16:02	44502	HAMI_T2	2	2	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
3/13/2025 16:02	16102	BING_T2	6	5	-1	0.45	0.64	0.19	0	0	0	0	0	0	0	0
3/13/2025 16:02	62105	ELAN_T1	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
3/13/2025 16:02	52401	GRPA_T2	1	2	1	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
3/13/2025 16:02	42503	ALTA_T2	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
3/13/2025 16:03	58701	ROSE_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
3/13/2025 16:03	44505	HAMI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 16:03	58705	ROSE_T2	6	6	0	2.58	2.65	0.07	0	0	0	0	0	0	0	0
3/13/2025 16:03	44502	HAMI_T2	2	2	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
3/13/2025 16:04	23901	EFMO_T2	1	1	0	0.1	0.4	0.3	-0.39	-0.36	0	0	0	0	0	0
3/13/2025 16:04	44802	EDAN_T2	0	0	0	0	0	0	-0.86	-0.91	0	0	0	0	0	0
3/13/2025 16:04	44502	HAMI_T2	2	2	0	2.2	2.3	0.1	0.02	0.02	0	0	0	0	0	0
3/13/2025 16:04	44801	EDAN_T2	6	9	3	0.33	0.43	0.1	0	0	0	0	0	0	0	0
3/13/2025 16:04	44505	HAMI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 16:05	41301	FISH_T1	5	12	7	1.36	0.72	-0.64	-0.29	-0.3	0	0	0	0	0	0
3/13/2025 16:06	40802	EXCH_T2	0	2	2	0	0.15	0.15	0.11	0.1	0	0	0	0	0	0
3/13/2025 16:06	44502	HAMI_T2	2	2	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
3/13/2025 16:06	58201	NEWV_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/13/2025 16:06	58202	NEWV_T1	12	11	-1	0.8	0.64	-0.16	-0.03	-0.02	0	0	0	0	0	0
3/13/2025 16:06	44505	HAMI_T2	0	1	1	0	0.1	0.1	-0.19	-0.13	0	0	0	0	0	0
3/13/2025 16:06	58402	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 16:06	58401	MORO_T1	4	1	-3	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/13/2025 16:07	52402	GRPA_T2	21	9	-12	0.39	0.49	0.1	0	0	0	0	0	0	0	0
3/13/2025 16:07	54505	ENOL_T2	2	1	-1	0.65	1	0.35	0	0	0	0	0	0	0	0
3/13/2025 16:07	52401	GRPA_T2	1	2	1	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
3/13/2025 16:07	58202	NEWV_T1	12	11	-1	0.8	0.64	-0.16	-0.02	0.09	0	0	0	0	0	0
3/13/2025 16:07	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/13/2025 16:07	52403	GRPA_T2	26	51	25	0.49	0.29	-0.2	-0.52	-0.54	0	0	0	0	0	0
3/13/2025 16:07	58201	NEWV_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/13/2025 16:08	58201	NEWV_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/13/2025 16:08	58402	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 16:08	58401	MORO_T1	4	1	-3	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/13/2025 16:08	58202	NEWV_T1	12	11	-1	0.8	0.64	-0.16	-0.02	0.09	0	0	0	0	0	0
3/13/2025 16:09	41301	FISH_T1	5	12	7	1.36	0.72	-0.64	-0.3	-0.31	0	0	0	0	0	0
3/13/2025 16:11	67402	WAKE_T2	8	10	2	0.19	0.25	0.06	0	0	0	0	0	0	0	0
3/13/2025 16:11	67401	WAKE_T2	57	138	81	0.29	0.29	0	-1.22	-1.2	0	0	0	0	0	0
3/13/2025 16:12	67402	WAKE_T2	8	10	2	0.19	0.25	0.06	0	0	0	0	0	0	0	0
3/13/2025 16:12	58202	NEWV_T1	12	11	-1	0.8	0.64	-0.16	-0.02	0.09	0	0	0	0	0	0
3/13/2025 16:12	67401	WAKE_T2	57	138	81	0.29	0.29	0	-1.22	-1.2	0	0	0	0	0	0
3/13/2025 16:12	58201	NEWV_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/13/2025 16:13	67402	WAKE_T2	8	10	2	0.19	0.25	0.06	0.14	0.14	0	0	0	0	0	0
3/13/2025 16:13	67401	WAKE_T2	57	138	81	0.29	0.29	0	0	0	0	0	0	0	0	0
3/13/2025 16:14	67401	WAKE_T2	57	138	81	0.29	0.29	0	-1.22	-1.2	0	0	0	0	0	0
3/13/2025 16:14	67402	WAKE_T2	8	10	2	0.19	0.25	0.06	0	0	0	0	0	0	0	0
3/13/2025 16:17	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 16:18	62604	ENGL_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 16:18	62607	ENGL_T1	76	3	-73	0.13	0.1	-0.03	-0.84	-0.86	0	0	0	0	0	0
3/13/2025 16:18	62605	ENGL_T1	27	7	-20	0.16	0.13	-0.03	0	0	0	0	0	0	0	0
3/13/2025 16:18	62601	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 16:18	62606	ENGL_T1	8	0	-8	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 16:18	62602	ENGL_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/13/2025 16:20	67401	WAKE_T2	138	45	-93	0.29	0.21	-0.08	0	0	0	0	0	0	0	0
3/13/2025 16:20	45801	HEGI_T1	0	0	0	0	0	0	-0.34	-0.33	1	1	0	900	900	0
3/13/2025 16:20	67402	WAKE_T2	10	2	-8	0.25	0.25	0	0	0	0	0	0	0	0	0
3/13/2025 16:22	63501	HEID_TBK1-2	92	1	-91	0.29	2.2	1.91	0.51	0.55	0	0	0	0	0	0
3/13/2025 16:32	66903	SHIL_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0
3/13/2025 16:32	66901	SHIL_T2	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
3/13/2025 16:32	66902	SHIL_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/13/2025 16:35	66901	SHIL_T2	2	2	0	0.35	0.3	-0.05	-0.56	-0.47	0	0	0	0	0	0
3/13/2025 16:35	66902	SHIL_T2	2	1	-1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/13/2025 16:35	66903	SHIL_T2	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/13/2025 16:38	52102	MEIS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/13/2025 16:38	52101	MEIS_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
3/13/2025 16:39	43801	SWIL_T1	2	2	0	3.1	3.2	0.1	0	0	0	0	0	0	0	0
3/13/2025 16:39	43802	SWIL_T1	0	0	0	0	0	0	-0.29	-0.28	1	1	0	600	600	0
3/13/2025 16:39	65901	SAKR_T2	0	0	0	0	0	0	-1.38	-1.37	1	1	0	900	900	0
3/13/2025 16:46	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
3/13/2025 16:46	63801	HEMP_T1	3	2	-1	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
3/13/2025 16:46	63803	HEMP_T1	1	1	0	0.5	0.3	-0.2	0.1	0.13	0	0	0	0	0	0
3/13/2025 16:47	63801	HEMP_T1	3	2	-1	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
3/13/2025 16:47	63803	HEMP_T1	1	1	0	0.5	0.3	-0.2	0.1	0.13	0	0	0	0	0	0
3/13/2025 16:47	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
3/13/2025 16:48	63803	HEMP_T1	1	1	0	0.5	0.3	-0.2	0.1	0.13	0	0	0	0	0	0
3/13/2025 16:48	63801	HEMP_T1	3	2	-1	0.43	0.3	-0.13	-0.21	-0.01	0	0	0	0	0	0
3/13/2025 16:48	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
3/13/2025 16:49	64201	KINZ_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
3/13/2025 16:49	63803	HEMP_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/13/2025 16:49	63801	HEMP_T1	3	2	-1	0.43	0.3	-0.13	-0.21	-0.01	0	0	0	0	0	0
3/13/2025 16:49	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/13/2025 16:49	63804	HEMP_T1	1	1	0	5.5	5.5	0	0.82	0.84	0	0	0	0	0	0
3/13/2025 16:49	64204	KINZ_T1	42	68	26	0.44	0.6	0.16	0	0	0	0	0	0	0	0
3/13/2025 16:49	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 16:50	63801	HEMP_T1	3	2	-1	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
3/13/2025 16:50	64204	KINZ_T1	42	68	26	0.44	0.6	0.16	0	0	0	0	0	0	0	0
3/13/2025 16:50	64202	KINZ_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/13/2025 16:50	64201	KINZ_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
3/13/2025 16:50	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 16:50	63803	HEMP_T1	1	1	0	0.5	0.3	-0.2	0.1	0.13	0	0	0	0	0	0
3/13/2025 16:50	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
3/13/2025 16:52	63802	HEMP_T1	0	0	0	0	0	0	0.09	0.13	0	0	0	0	0	0
3/13/2025 16:52	63803	HEMP_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/13/2025 16:52	63801	HEMP_T1	3	2	-1	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
3/13/2025 16:52	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
3/13/2025 16:57	43402	BENT_T1	94	99	5	0.46	0.61	0.15	-0.97	-1.01	1	1	0	900	900	0
3/13/2025 16:58	43402	BENT_T1	94	99	5	0.46	0.61	0.15	-0.97	-1.01	1	1	0	900	900	0
3/13/2025 17:00	43506	WWIL_T1	5	5	0	0.68	0.58	-0.1	0	0	0	0	0	0	0	0
3/13/2025 17:00	43505	WWIL_T1	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
3/13/2025 17:00	43504	WWIL_T1	9	10	1	0.39	0.37	-0.02	0.49	0.5	0	0	0	0	0	0
3/13/2025 17:01	67106	SPRI_T2	0	1	1	0	0.1	0.1	-1.32	-1.35	1	1	0	900	900	0
3/13/2025 17:01	67101	SPRI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/13/2025 17:13	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/13/2025 17:14	45501	DERR_T2	0	0	0	0	0	0	0.94	0.92	1	1	0	600	600	0
3/13/2025 17:15	45501	DERR_T2	0	0	0	0	0	0	0.94	0.92	1	1	0	600	600	0
3/13/2025 17:16	15601	NSTR_T2	2	3	1	0.4	0.57	0.17	0	0	0	0	0	0	0	0
3/13/2025 17:17	22003	BOHE_T1	1	1	0	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 17:17	22002	BOHE_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
3/13/2025 17:22	43202	MVIL_T2	88	75	-13	0.79	0.71	-0.08	-0.73	-0.73	0	0	0	0	0	0
3/13/2025 17:24	43202	MVIL_T2	88	75	-13	0.79	0.71	-0.08	-0.73	-0.73	0	0	0	0	0	0
3/13/2025 17:25	15703	TANN_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
3/13/2025 17:25	62103	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 17:25	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 17:25	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 17:25	62106	ELAN_T1	1	1	0	0.6	0.3	-0.3	0	0	0	0	0	0	0	0
3/13/2025 17:25	15702	TANN_T2	0	0	0	0	0	0	-0.48	-0.49	0	0	0	0	0	0
3/13/2025 17:31	17805	GILB_T2	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
3/13/2025 17:31	17803	GILB_T2	0	9	9	0	0.26	0.26	0	0	0	0	0	0	0	0
3/13/2025 17:45	44202	POIN_T2	0	0	0	0	0	0	-1.6	-1.38	2	2	0	2400	2400	0
3/13/2025 17:45	44201	POIN_T1	0	1	1	0	0.1	0.1	-4.65	-4.75	2	2	0	2400	2400	0
3/13/2025 17:47	23403	HONE_T1	0	0	0	0	0	0	-0.74	-0.63	0	0	0	0	0	0
3/13/2025 17:47	44202	POIN_T2	0	0	0	0	0	0	-0.8	-0.69	1	1	0	1200	1200	0
3/13/2025 17:47	44201	POIN_T1	0	1	1	0	0.1	0.1	-2.32	-2.38	1	1	0	1200	1200	0
3/13/2025 17:48	63804	HEMP_T1	1	1	0	5.7	5.6	-0.1	0.83	0.75	0	0	0	0	0	0
3/13/2025 17:49	44201	POIN_T1	0	1	1	0	0.1	0.1	-2.32	-2.38	1	1	0	1200	1200	0
3/13/2025 17:49	44203	POIN_T2	0	0	0	0	0	0	-0.81	-0.83	2	2	0	2100	2100	0
3/13/2025 17:50	47101	MARL_T1	0	1	1	0	0.2	0.2	-2.47	-2.48	0	0	0	0	0	0
3/13/2025 17:50	47102	MARL_T2	7	9	2	0.24	0.32	0.08	0	0	0	0	0	0	0	0
3/13/2025 17:50	47103	MARL_T2	5	18	13	0.26	0.16	-0.1	-0.62	-0.64	0	0	0	0	0	0
3/13/2025 17:50	44203	POIN_T2	0	0	0	0	0	0	-0.81	-0.83	2	2	0	2100	2100	0
3/13/2025 17:52	13303	ORVI_T1	0	0	0	0	0	0	0.91	0.8	0	0	0	0	0	0
3/13/2025 17:52	47101	MARL_T1	0	1	1	0	0.2	0.2	-2.48	-2.8	0	0	0	0	0	0
3/13/2025 17:52	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 17:56	13303	ORVI_T1	0	0	0	0	0	0	0.91	0.8	0	0	0	0	0	0
3/13/2025 17:56	64101	REFR_T1	0	0	0	0	0	0	-0.23	-0.21	0	0	0	0	0	0
3/13/2025 17:58	59201	THOM_T1	32	53	21	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
3/13/2025 17:58	59202	THOM_T1	383	479	96	0.45	0.61	0.16	0	0	0	0	0	0	0	0
3/13/2025 17:59	59202	THOM_T1	383	479	96	0.45	0.61	0.16	0	0	0	0	0	0	0	0
3/13/2025 17:59	59201	THOM_T1	32	53	21	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
3/13/2025 18:00	59202	THOM_T1	417	470	53	0.47	0.62	0.15	0	0	0	0	0	0	0	0
3/13/2025 18:00	66902	SHIL_T2	0	0	0	0	0	0	-1.07	-1.08	0	0	0	0	0	0
3/13/2025 18:00	59201	THOM_T1	48	0	0	0.42	0.53	0.11	0	0	0	0	0	0	0	0
3/13/2025 18:02	66902	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 18:02	40201	BEGA_T2	19	22	3	0.27	0.31	0.04	0	0	0	0	0	0	0	0
3/13/2025 18:06	65502	MOJO_T2	29	247	218	0.1	0.2	0.1	-2.99	-2.8	0	0	0	0	0	0
3/13/2025 18:06	65503	MOJO_T2	0	42	42	0	0.11	0.11	0	0	0	0	0	0	0	0
3/13/2025 18:07	65502	MOJO_T2	29	247	218	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/13/2025 18:07	65503	MOJO_T2	0	42	42	0	0.11	0.11	0	0	0	0	0	0	0	0
3/13/2025 18:13	14801	TREI_T2	0	9	9	0	0.13	0.13	0	0	0	0	0	0	0	0
3/13/2025 18:13	14802	TREI_T2	0	3	3	0	0.13	0.13	0.3	0.26	0	0	0	0	0	0
3/13/2025 18:28	60801	BUCK_T1	18	2	-16	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
3/13/2025 18:28	60803	BUCK_T1	5	0	-5	0.14	0	-0.14	-0.58	-0.58	1	1	0	600	600	0
3/13/2025 18:28	40201	BEGA_T2	22	11	-11	0.31	0.23	-0.08	0	0	0	0	0	0	0	0
3/13/2025 18:30	60801	BUCK_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/13/2025 18:30	60803	BUCK_T1	0	0	0	0	0	0	-0.58	-0.58	1	1	0	600	600	0
3/13/2025 18:31	62103	ELAN_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/13/2025 18:31	62102	ELAN_T1	0	0	0	0	0	0	0.55	0.43	0	0	0	0	0	0
3/13/2025 18:31	62101	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 18:35	43402	BENT_T1	4	6	2	0.23	0.17	-0.06	-1.02	-1.03	1	1	0	900	900	0
3/13/2025 18:42	67605	WARW_T1	13	13	0	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
3/13/2025 18:42	67603	WARW_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
3/13/2025 18:44	67605	WARW_T1	13	13	0	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
3/13/2025 18:44	67603	WARW_T1	0	0	0	0	0	0	-0.11	-0.1	0	0	0	0	0	0
3/13/2025 18:49	64501	LAVI_T1	157	157	0	0.87	0.91	0.04	-3.9	-3.88	0	0	0	0	0	0
3/13/2025 18:49	64502	LAVI_T1	370	373	3	0.69	0.72	0.03	0	0	0	0	0	0	0	0
3/13/2025 18:49	64503	LAVI_T1	152	244	92	0.22	0.28	0.06	0	0	0	0	0	0	0	0
3/13/2025 18:54	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.63	0	0	0	0	0	0
3/13/2025 18:54	46506	LOHA_T1	3	3	0	4.57	4.73	0.16	0	0	0	0	0	0	0	0
3/13/2025 18:54	46504	LOHA_T1	2	2	0	0.65	0.75	0.1	0	0	0	0	0	0	0	0
3/13/2025 19:08	57203	ROSS_T1	0	0	0	0	0	0	0.28	0.27	0	0	0	0	0	0
3/13/2025 19:08	51904	COPA_T1	1	5	4	0.3	0.44	0.14	0	0	0	0	0	0	0	0
3/13/2025 19:08	51906	COPA_T1	0	0	0	0	0	0	-1.09	-1.18	2	2	0	1500	1500	0
3/13/2025 19:53	60404	DILL_T2	0	0	0	0	0	0	-0.33	-0.32	1	1	0	1200	1200	0
3/13/2025 19:53	23403	HONE_T1	0	0	0	0	0	0	-0.71	-0.77	0	0	0	0	0	0
3/13/2025 20:09	44901	SCOT_T2	12	28	16	0.17	0.26	0.09	0.11	0.11	0	0	0	0	0	0
3/13/2025 20:09	44902	SCOT_T2	639	745	106	0.36	0.57	0.21	-0.96	-1.02	0	0	0	0	0	0
3/13/2025 20:11	44902	SCOT_T2	639	745	106	0.36	0.57	0.21	-1.91	-2.03	0	0	0	0	0	0
3/13/2025 20:11	44901	SCOT_T2	12	28	16	0.17	0.26	0.09	0	0	0	0	0	0	0	0
3/13/2025 20:12	44902	SCOT_T2	639	745	106	0.36	0.57	0.21	0	0	0	0	0	0	0	0
3/13/2025 20:12	44901	SCOT_T2	12	28	16	0.17	0.26	0.09	0.22	0.22	0	0	0	0	0	0
3/13/2025 20:25	64901	MILL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 20:25	64904	MILL_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
3/13/2025 20:33	41801	GOCI_T2	0	15	15	0	0.13	0.13	0	0	0	0	0	0	0	0
3/13/2025 20:33	65804	RTWN_T1	0	0	0	0	0	0	-0.08	-0.1	1	1	0	600	600	0
3/13/2025 20:33	41802	GOCI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 20:35	41802	GOCI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 20:35	41801	GOCI_T2	0	15	15	0	0.13	0.13	0	0	0	0	0	0	0	0
3/13/2025 20:37	41801	GOCI_T2	0	15	15	0	0.13	0.13	0	0	0	0	0	0	0	0
3/13/2025 20:37	41802	GOCI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 20:41	41802	GOCI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 20:41	41801	GOCI_T2	0	15	15	0	0.13	0.13	0	0	0	0	0	0	0	0
3/13/2025 20:44	61306	EARL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 20:44	61304	EARL_T1	94	119	25	0.17	0.18	0.01	-0.4	-0.37	0	0	0	0	0	0
3/13/2025 20:50	40101	HUNT_T2	0	0	0	0	0	0	-1.78	-1.79	0	0	0	0	0	0
3/13/2025 20:57	57402	SPAN_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
3/13/2025 20:59	61303	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 20:59	61306	EARL_T1	2	19	17	0.1	0.18	0.08	0.04	0.02	0	0	0	0	0	0
3/13/2025 20:59	61304	EARL_T1	111	203	92	0.18	0.23	0.05	-0.37	-0.36	0	0	0	0	0	0
3/13/2025 21:00	61306	EARL_T1	1	19	18	0.1	0.18	0.08	0.02	0.01	0	0	0	0	0	0
3/13/2025 21:00	67605	WARW_T1	5	15	10	0.16	0.38	0.22	0	0	0	0	0	0	0	0
3/13/2025 21:00	61303	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:00	61304	EARL_T1	80	240	160	0.18	0.23	0.05	0	0	0	0	0	0	0	0
3/13/2025 21:01	61303	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:01	61304	EARL_T1	80	240	160	0.18	0.23	0.05	0	0	0	0	0	0	0	0
3/13/2025 21:01	61306	EARL_T1	1	19	18	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/13/2025 21:02	61304	EARL_T1	80	240	160	0.18	0.23	0.05	-0.37	-0.36	0	0	0	0	0	0
3/13/2025 21:02	61303	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:02	61306	EARL_T1	1	19	18	0.1	0.18	0.08	0.02	0.01	0	0	0	0	0	0
3/13/2025 21:03	10602	BLGL_T2	0	0	0	0	0	0	0.02	0.06	0	0	0	0	0	0
3/13/2025 21:03	61306	EARL_T1	1	19	18	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/13/2025 21:03	61302	EARL_T1	0	0	0	0	0	0	1.3	1.32	0	0	0	0	0	0
3/13/2025 21:03	61303	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:03	61304	EARL_T1	80	240	160	0.18	0.23	0.05	0	0	0	0	0	0	0	0
3/13/2025 21:04	62606	ENGL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:04	62601	ENGL_T1	0	0	0	0	0	0	-0.16	-0.13	0	0	0	0	0	0
3/13/2025 21:04	17805	GILB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:05	15104	UPHA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:06	20401	ASHF_T2	4	8	4	0.13	0.4	0.27	0.28	0.3	0	0	0	0	0	0
3/13/2025 21:06	20403	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:06	21204	ECAR_T2	1	3	2	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:06	15702	TANN_T2	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
3/13/2025 21:06	21206	ECAR_T2	1	1	0	7.7	7.8	0.1	-0.11	-0.08	0	0	0	0	0	0
3/13/2025 21:06	20402	ASHF_T2	2	9	7	0.35	0.29	-0.06	0	0	0	0	0	0	0	0
3/13/2025 21:06	17805	GILB_T2	0	0	0	0	0	0	-0.15	-0.2	0	0	0	0	0	0
3/13/2025 21:06	15703	TANN_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:07	54201	PENN_T1	3	10	7	1.27	0.68	-0.59	0.01	0.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/13/2025 21:07	41301	FISH_T1	2	6	4	1.6	0.67	-0.93	-0.31	-0.33	0	0	0	0	0	0
3/13/2025 21:07	17802	GILB_T1	0	1	1	0	0	0	-0.02	-0.03	0	0	0	0	0	0
3/13/2025 21:07	54203	PENN_T1	18	18	0	0.51	0.98	0.47	0	0	0	0	0	0	0	0
3/13/2025 21:07	66903	SHIL_T2	0	0	0	0	0	0	-1.28	-1.29	0	0	0	0	0	0
3/13/2025 21:08	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:08	10105	ALLE_T3	7	8	1	0.39	0.55	0.16	0	0	0	0	0	0	0	0
3/13/2025 21:08	16102	BING_T2	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
3/13/2025 21:08	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:08	61304	EARL_T1	80	240	160	0.18	0.23	0.05	-0.36	-0.38	0	0	0	0	0	0
3/13/2025 21:08	22002	BOHE_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
3/13/2025 21:08	64202	KINZ_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/13/2025 21:08	62606	ENGL_T1	0	0	0	0	0	0	-0.66	-0.63	0	0	0	0	0	0
3/13/2025 21:08	46002	BERW_T2	0	0	0	0	0	0	-1.24	-1.25	1	1	0	900	900	0
3/13/2025 21:08	64201	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
3/13/2025 21:08	61306	EARL_T1	1	19	18	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/13/2025 21:08	64204	KINZ_T1	1	10	9	1.4	0.19	-1.21	0	0	0	0	0	0	0	0
3/13/2025 21:08	10101	ALLE_T3	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/13/2025 21:08	61303	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:09	65702	RVIL_T2	0	0	0	0	0	0	-1.09	-1.09	0	0	0	0	0	0
3/13/2025 21:09	43802	SWIL_T1	0	0	0	0	0	0	-0.28	-0.28	1	1	0	600	600	0
3/13/2025 21:09	15101	UPHA_T1	0	0	0	0	0	0	0.47	0.52	0	0	0	0	0	0
3/13/2025 21:09	43801	SWIL_T1	2	2	0	3.15	3.2	0.05	0	0	0	0	0	0	0	0
3/13/2025 21:09	18001	ZION_T1	2	2	0	9.35	9.5	0.15	0	0	0	0	0	0	0	0
3/13/2025 21:10	20602	GRWO_T2	0	30	30	0	0.16	0.16	0	0	0	0	0	0	0	0
3/13/2025 21:10	64201	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
3/13/2025 21:10	20603	GRWO_T2	50	101	51	0.4	0.37	-0.03	0.32	0.35	0	0	0	0	0	0
3/13/2025 21:10	43402	BENT_T1	0	3	3	0	0.2	0.2	-1.03	-1.05	1	1	0	900	900	0
3/13/2025 21:10	66504	SMAN_T2	0	0	0	0	0	0	-1.54	-1.46	0	0	0	0	0	0
3/13/2025 21:10	64204	KINZ_T1	1	10	9	1.4	0.19	-1.21	0	0	0	0	0	0	0	0
3/13/2025 21:10	48303	ORWI_T2	7	19	12	0.13	0.2	0.07	0	0	0	0	0	0	0	0
3/13/2025 21:10	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:10	64202	KINZ_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/13/2025 21:10	63501	HEID_TBK1-2	1	32	31	1.7	0.31	-1.39	0.32	0.27	0	0	0	0	0	0
3/13/2025 21:10	16302	ALPA_T2	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
3/13/2025 21:10	66505	SMAN_T2	3	3	0	1.43	1.53	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:10	20601	GRWO_T2	61	100	39	0.18	0.25	0.07	0	0	0	0	0	0	0	0
3/13/2025 21:10	48302	ORWI_T2	2	20	18	9.35	1.1	-8.25	-0.16	-0.15	0	0	0	0	0	0
3/13/2025 21:10	14801	TREI_T2	0	1	1	0	0.2	0.2	0.36	0.36	0	0	0	0	0	0
3/13/2025 21:10	20201	JERM_T1	0	0	0	0	0	0	0.49	0.56	1	1	0	1200	1200	0
3/13/2025 21:10	11202	ELHE_T2	0	0	0	0	0	0	0.37	0.36	1	1	0	1200	1200	0
3/13/2025 21:10	66901	SHIL_T2	0	0	0	0	0	0	-0.56	-0.59	0	0	0	0	0	0
3/13/2025 21:10	13303	ORVI_T1	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
3/13/2025 21:10	64203	KINZ_T1	0	0	0	0	0	0	-0.51	-0.47	1	1	0	600	600	0
3/13/2025 21:11	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:11	46203	DANV_T2	397	437	40	1.42	1.26	-0.16	0	0	0	0	0	0	0	0
3/13/2025 21:11	61103	BERK_T5	0	1	1	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
3/13/2025 21:11	66902	SHIL_T2	0	0	0	0	0	0	-1.06	-1.1	0	0	0	0	0	0
3/13/2025 21:11	10206	ALLE_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/13/2025 21:11	67605	WARW_T1	5	15	10	0.16	0.38	0.22	-0.88	-0.87	0	0	0	0	0	0
3/13/2025 21:11	60803	BUCK_T1	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
3/13/2025 21:11	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/13/2025 21:11	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:11	66505	SMAN_T2	3	3	0	1.43	1.53	0.1	-0.36	-0.55	1	1	0	900	900	0
3/13/2025 21:11	60201	ATGL_T2	0	64	64	0	0.25	0.25	0	0	0	0	0	0	0	0
3/13/2025 21:11	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:11	65503	MOJO_T2	0	0	0	0	0	0	-0.26	-0.17	0	0	0	0	0	0
3/13/2025 21:11	66502	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:11	23401	HONE_T2	0	2	2	0	0	0	-0.49	-0.45	0	0	0	0	0	0
3/13/2025 21:11	10102	ALLE_T2	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:11	67106	SPRI_T2	0	0	0	0	0	0	-1.34	-1.34	1	1	0	900	900	0
3/13/2025 21:11	46206	DANV_T2	0	0	0	0	0	0	1.69	1.74	2	2	0	2100	2100	0
3/13/2025 21:11	46201	DANV_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:11	60801	BUCK_T1	0	22	22	0	0.17	0.17	-0.27	-0.29	0	0	0	0	0	0
3/13/2025 21:11	61102	BERK_T5	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/13/2025 21:11	61101	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/13/2025 21:11	16101	BING_T2	0	0	0	0	0	0	0.33	0.31	0	0	0	0	0	0
3/13/2025 21:11	24202	PROV_T4	0	0	0	0	0	0	-0.9	-0.91	1	1	0	1200	1200	0
3/13/2025 21:11	10801	CHHI_T1	0	1	1	0	0	0	-1.02	-1.03	1	1	0	900	900	0
3/13/2025 21:11	66504	SMAN_T2	0	0	0	0	0	0	-0.77	-0.73	0	0	0	0	0	0
3/13/2025 21:11	14802	TREI_T2	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
3/13/2025 21:11	18001	ZION_T1	2	2	0	9.35	9.5	0.15	0	0	0	0	0	0	0	0
3/13/2025 21:11	47101	MARL_T1	0	0	0	0	0	0	-1.25	-1.26	0	0	0	0	0	0
3/13/2025 21:12	24204	PROV_T3	7	20	13	0.99	0.46	-0.53	0	0	0	0	0	0	0	0
3/13/2025 21:12	40505	CRES_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
3/13/2025 21:12	67106	SPRI_T2	0	0	0	0	0	0	-1.34	-1.34	1	1	0	900	900	0
3/13/2025 21:12	55001	NEWP_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
3/13/2025 21:12	66505	SMAN_T2	3	3	0	1.43	1.53	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:12	44203	POIN_T2	0	0	0	0	0	0	-0.99	-0.92	2	2	0	2100	2100	0
3/13/2025 21:12	24201	PROV_T3	17	71	54	0.98	0.37	-0.61	-1.54	-1.54	1	1	0	1200	1200	0
3/13/2025 21:12	67401	WAKE_T2	1	5	4	0.1	0.14	0.04	0	0	0	0	0	0	0	0
3/13/2025 21:12	40504	CRES_T1	13	35	22	0.18	0.31	0.13	0	0	0	0	0	0	0	0
3/13/2025 21:12	11301	EMMA_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
3/13/2025 21:12	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/13/2025 21:12	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:12	65202	PRIN_T1	1	6	5	0.8	0.22	-0.58	0	0	0	0	0	0	0	0
3/13/2025 21:12	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:12	67402	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:12	55002	NEWP_T1	4	4	0	0.58	0.8	0.22	0	0	0	0	0	0	0	0
3/13/2025 21:12	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:12	10102	ALLE_T2	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:12	67605	WARW_T1	5	15	10	0.16	0.38	0.22	0	0	0	0	0	0	0	0
3/13/2025 21:12	41301	FISH_T1	2	6	4	1.6	0.67	-0.93	0	0	0	0	0	0	0	0
3/13/2025 21:12	65203	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:12	10206	ALLE_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/13/2025 21:12	54502	ENOL_T2	1	1	0	0.3	0.6	0.3	-1.97	-2.05	1	1	0	600	600	0
3/13/2025 21:12	60301	TWVA_T2	0	0	0	0	0	0	-2.04	-3.33	2	2	0	1800	1800	0
3/13/2025 21:12	65205	PRIN_T1	2	4	2	1	0.58	-0.42	0	0	0	0	0	0	0	0
3/13/2025 21:12	44502	HAMI_T2	1	1	0	3.6	3.6	0	0.01	0.02	0	0	0	0	0	0
3/13/2025 21:12	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:12	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:12	65702	RVIL_T2	0	0	0	0	0	0	-1.09	-1.09	0	0	0	0	0	0
3/13/2025 21:13	15703	TANN_T2	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:13	66901	SHIL_T2	0	0	0	0	0	0	-0.56	-0.59	0	0	0	0	0	0
3/13/2025 21:13	10102	ALLE_T2	1	1	0	6.8	6.9	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:13	15702	TANN_T2	0	0	0	0	0	0	-0.98	-1	0	0	0	0	0	0
3/13/2025 21:13	66504	SMAN_T2	0	0	0	0	0	0	-0.77	-0.73	0	0	0	0	0	0
3/13/2025 21:13	64204	KINZ_T1	1	10	9	1.4	0.19	-1.21	0	0	0	0	0	0	0	0
3/13/2025 21:13	64202	KINZ_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/13/2025 21:13	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:13	44802	EDAN_T2	0	0	0	0	0	0	-1.02	-1.05	0	0	0	0	0	0
3/13/2025 21:13	40504	CRES_T1	13	35	22	0.18	0.31	0.13	0	0	0	0	0	0	0	0
3/13/2025 21:13	14801	TREI_T2	0	1	1	0	0.2	0.2	0.36	0.36	0	0	0	0	0	0
3/13/2025 21:13	46903	MNTG_T2	0	0	0	0	0	0	-0.72	-0.81	1	1	0	600	600	0
3/13/2025 21:13	17902	BART_T2	0	0	0	0	0	0	0.03	0.06	0	0	0	0	0	0
3/13/2025 21:13	47901	HRDG_T1	0	0	0	0	0	0	0.81	0.89	0	0	0	0	0	0
3/13/2025 21:13	65702	RVIL_T2	0	0	0	0	0	0	-1.09	-1.09	0	0	0	0	0	0
3/13/2025 21:13	64201	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
3/13/2025 21:13	10206	ALLE_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/13/2025 21:13	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:13	40505	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:13	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:13	41301	FISH_T1	2	6	4	1.6	0.67	-0.93	0	0	0	0	0	0	0	0
3/13/2025 21:13	61802	EELI_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
3/13/2025 21:13	47401	PENS_T1	0	0	0	0	0	0	0.67	0.67	0	0	0	0	0	0
3/13/2025 21:13	62607	ENGL_T1	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
3/13/2025 21:13	47403	PENS_T1	1	5	4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/13/2025 21:13	66505	SMAN_T2	3	3	0	1.43	1.53	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:13	14802	TREI_T2	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
3/13/2025 21:13	63804	HEMP_T1	1	1	0	5.3	5.7	0.4	0.67	0.66	0	0	0	0	0	0
3/13/2025 21:13	63501	HEID_TBK1-2	1	32	31	1.7	0.31	-1.39	0.32	0.27	0	0	0	0	0	0
3/13/2025 21:13	16302	ALPA_T2	0	0	0	0	0	0	1.13	1.13	0	0	0	0	0	0
3/13/2025 21:14	60201	ATGL_T2	0	64	64	0	0.25	0.25	-0.46	-0.54	0	0	0	0	0	0
3/13/2025 21:14	46002	BERW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:14	40504	CRES_T1	13	35	22	0.18	0.31	0.13	0	0	0	0	0	0	0	0
3/13/2025 21:14	42701	AUGU_T1	1	55	54	0.8	1	0.2	0	0	0	0	0	0	0	0
3/13/2025 21:14	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/13/2025 21:14	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:14	46004	BERW_T2	0	1	1	0	8.5	8.5	0	0	0	0	0	0	0	0
3/13/2025 21:14	52502	PROG_T2	0	0	0	0	0	0	-0.76	-0.75	1	1	0	900	900	0
3/13/2025 21:14	15601	NSTR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:14	40502	CRES_T2	18	29	11	0.29	0.34	0.05	0.05	0.05	0	0	0	0	0	0
3/13/2025 21:14	23203	HIRU_T2	0	0	0	0	0	0	-0.06	0.02	0	0	0	0	0	0
3/13/2025 21:14	66202	SISP_T2	0	0	0	0	0	0	-1.55	-1.17	0	0	0	0	0	0
3/13/2025 21:14	45801	HEGI_T1	0	0	0	0	0	0	-0.35	-0.27	1	1	0	900	900	0
3/13/2025 21:14	22602	KIMB_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
3/13/2025 21:14	67605	WARW_T1	5	15	10	0.16	0.38	0.22	-0.88	-0.87	0	0	0	0	0	0
3/13/2025 21:14	60801	BUCK_T1	0	22	22	0	0.17	0.17	-0.27	-0.29	0	0	0	0	0	0
3/13/2025 21:14	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:14	41202	KENM_T2	1	1	0	0.1	0.2	0.1	0.39	0.39	0	0	0	0	0	0
3/13/2025 21:14	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/13/2025 21:14	41204	KENM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:14	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:14	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
3/13/2025 21:14	54506	ENOL_T2	0	0	0	0	0	0	-0.1	-0.09	0	1	1	0	600	600
3/13/2025 21:14	10805	CHHI_T2	1	1	0	8.1	7.7	-0.4	-0.76	-0.85	0	0	0	0	0	0
3/13/2025 21:14	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:14	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
3/13/2025 21:14	44701	MUNC_T2	0	2	2	0	0.1	0.1	-1.45	-1.46	0	0	0	0	0	0
3/13/2025 21:14	18001	ZION_T1	2	2	0	9.35	9.5	0.15	0	0	0	0	0	0	0	0
3/13/2025 21:14	47101	MARL_T1	0	0	0	0	0	0	-1.25	-1.26	0	0	0	0	0	0
3/13/2025 21:14	47901	HRDG_T1	0	0	0	0	0	0	0.81	0.89	0	0	0	0	0	0
3/13/2025 21:14	14802	TREI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:14	66505	SMAN_T2	3	3	0	1.43	1.53	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/13/2025 21:14	63804	HEMP_T1	1	1	0	5.3	5.7	0.4	0	0	0	0	0	0	0	0
3/13/2025 21:14	66504	SMAN_T2	0	0	0	0	0	0	-0.77	-0.73	0	0	0	0	0	0
3/13/2025 21:14	67401	WAKE_T2	1	5	4	0.1	0.14	0.04	-1.01	-0.99	0	0	0	0	0	0
3/13/2025 21:14	44502	HAMI_T2	1	1	0	3.6	3.6	0	0.01	0.02	0	0	0	0	0	0
3/13/2025 21:14	43801	SWIL_T1	2	2	0	3.15	3.2	0.05	0	0	0	0	0	0	0	0
3/13/2025 21:14	54502	ENOL_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/13/2025 21:14	40505	CRES_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
3/13/2025 21:14	40501	CRES_T2	9	9	0	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
3/13/2025 21:14	63802	HEMP_T1	0	0	0	0	0	0	0.02	0.05	0	0	0	0	0	0
3/13/2025 21:14	60803	BUCK_T1	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
3/13/2025 21:15	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/13/2025 21:15	13905	SEID_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
3/13/2025 21:15	61103	BERK_T5	1	0	-1	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
3/13/2025 21:15	41301	FISH_T1	6	6	0	0.67	0.72	0.05	-0.31	-0.33	0	0	0	0	0	0
3/13/2025 21:15	46001	BERW_T1	0	0	0	0	0	0	0.94	1.04	0	0	0	0	0	0
3/13/2025 21:15	22602	KIMB_T1	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
3/13/2025 21:15	66502	SMAN_T2	0	0	0	0	0	0	-0.43	-0.86	0	0	0	0	0	0
3/13/2025 21:15	61101	BERK_T5	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/13/2025 21:15	45501	DERR_T2	0	1	1	0	0.3	0.3	0.46	0.5	1	1	0	600	600	0
3/13/2025 21:15	62604	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:15	40502	CRES_T2	29	24	-5	0.34	0.42	0.08	0.1	0.1	0	0	0	0	0	0
3/13/2025 21:15	52502	PROG_T2	0	0	0	0	0	0	-1.52	-1.5	2	2	0	1800	1800	0
3/13/2025 21:15	65502	MOJO_T2	0	0	0	0	0	0	-1.1	-1.14	0	0	0	0	0	0
3/13/2025 21:15	16102	BING_T2	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
3/13/2025 21:15	63202	MGTN_T2	0	2	2	0	0	0	0.62	0.57	0	0	0	0	0	0
3/13/2025 21:15	65503	MOJO_T2	0	0	0	0	0	0	-0.26	-0.17	0	0	0	0	0	0
3/13/2025 21:15	63501	HEID_TBK1-2	28	32	4	0.23	0.31	0.08	0.64	0.54	0	0	0	0	0	0
3/13/2025 21:15	44802	EDAN_T2	0	0	0	0	0	0	-2.04	-2.1	0	0	0	0	0	0
3/13/2025 21:15	63804	HEMP_T1	1	1	0	5.7	5.9	0.2	0	0	0	0	0	0	0	0
3/13/2025 21:15	43304	WATS_T2	0	0	0	0	0	0	0.52	0.58	0	0	0	0	0	0
3/13/2025 21:15	67904	WNHO_T1	0	0	0	0	0	0	-1.22	-1.23	1	1	0	1200	1200	0
3/13/2025 21:15	66503	SMAN_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
3/13/2025 21:15	14802	TREI_T2	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
3/13/2025 21:15	42501	ALTA_T2	0	0	0	0	0	0	1.65	1.68	0	0	0	0	0	0
3/13/2025 21:15	66505	SMAN_T2	3	3	0	1.23	1.53	0.3	-0.36	-0.55	1	1	0	900	900	0
3/13/2025 21:15	47101	MARL_T1	0	0	0	0	0	0	-1.25	-1.26	0	0	0	0	0	0
3/13/2025 21:15	20401	ASHF_T2	4	8	4	0.18	0.44	0.26	0	0	0	0	0	0	0	0
3/13/2025 21:15	60404	DILL_T2	0	0	0	0	0	0	-0.52	-0.58	1	1	0	1200	1200	0
3/13/2025 21:15	45502	DERR_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
3/13/2025 21:15	16302	ALPA_T2	0	0	0	0	0	0	0.56	0.56	0	0	0	0	0	0
3/13/2025 21:15	61306	EARL_T1	19	13	-6	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
3/13/2025 21:15	20402	ASHF_T2	4	9	5	0.25	0.29	0.04	0	0	0	0	0	0	0	0
3/13/2025 21:15	20403	ASHF_T2	0	2	2	0	0.1	0.1	0.09	0.11	0	0	0	0	0	0
3/13/2025 21:15	63803	HEMP_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
3/13/2025 21:15	60201	ATGL_T2	49	63	14	0.22	0.25	0.03	-0.23	-0.27	0	0	0	0	0	0
3/13/2025 21:15	40501	CRES_T2	9	11	2	0.37	0.22	-0.15	0	0	0	0	0	0	0	0
3/13/2025 21:15	44505	HAMI_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
3/13/2025 21:15	40201	BEGA_T2	9	8	-1	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/13/2025 21:15	67303	WYOM_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
3/13/2025 21:15	66504	SMAN_T2	0	0	0	0	0	0	-1.54	-1.46	0	0	0	0	0	0
3/13/2025 21:15	61102	BERK_T5	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/13/2025 21:15	61001	DONV_T1	0	0	0	0	0	0	-0.16	-0.15	0	0	0	0	0	0
3/13/2025 21:15	61304	EARL_T1	202	263	61	0.23	0.2	-0.03	-0.36	-0.38	0	0	0	0	0	0
3/13/2025 21:15	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 21:15	57402	SPAN_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
3/13/2025 21:15	61301	EARL_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
3/13/2025 21:15	44202	POIN_T2	0	0	0	0	0	0	-0.3	-0.54	1	1	0	1200	1200	0
3/13/2025 21:15	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:15	43202	MVIL_T2	44	53	9	0.26	0.27	0.01	-1.48	-1.46	0	0	0	0	0	0
3/13/2025 21:15	62606	ENGL_T1	0	0	0	0	0	0	-0.66	-0.63	0	0	0	0	0	0
3/13/2025 21:15	44601	SALE_T2	1	1	0	0.2	0.3	0.1	-0.22	-0.24	0	0	0	0	0	0
3/13/2025 21:15	66902	SHIL_T2	0	0	0	0	0	0	-1.06	-1.1	0	0	0	0	0	0
3/13/2025 21:15	44502	HAMI_T2	1	1	0	3.6	3.7	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:16	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	-1.37	-1.4	1	1	0	600	600	0
3/13/2025 21:16	41901	REED_T1	8	8	0	0.26	0.28	0.02	0	0	0	0	0	0	0	0
3/13/2025 21:16	21206	ECAR_T2	1	1	0	7.8	8	0.2	-0.08	-0.1	0	0	0	0	0	0
3/13/2025 21:16	64501	LAVI_T1	143	142	-1	0.45	0.45	0	-2.01	-1.98	0	0	0	0	0	0
3/13/2025 21:16	61103	BERK_T5	1	0	-1	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
3/13/2025 21:16	40101	HUNT_T2	0	0	0	0	0	0	-5.4	-5.52	0	0	0	0	0	0
3/13/2025 21:16	46205	DANV_T2	0	0	0	0	0	0	-0.96	-0.96	1	1	0	1200	1200	0
3/13/2025 21:16	60201	ATGL_T2	49	63	14	0.22	0.25	0.03	-0.23	-0.27	0	0	0	0	0	0
3/13/2025 21:16	67605	WARW_T1	13	15	2	0.29	0.38	0.09	-0.88	-0.87	0	0	0	0	0	0
3/13/2025 21:16	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:16	67603	WARW_T1	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
3/13/2025 21:16	10206	ALLE_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:16	54201	PENN_T1	7	10	3	0.83	0.68	-0.15	0.01	0.04	0	0	0	0	0	0
3/13/2025 21:16	62602	ENGL_T1	0	0	0	0	0	0	0.07	0.06	0	0	0	0	0	0
3/13/2025 21:16	60801	BUCK_T1	19	18	-1	0.17	0.18	0.01	-0.27	-0.29	0	0	0	0	0	0
3/13/2025 21:16	23901	EFMO_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
3/13/2025 21:16	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:16	54504	ENOL_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
3/13/2025 21:16	67401	WAKE_T2	5	0	-5	0.14	0	-0.14	-1.01	-0.99	0	0	0	0	0	0
3/13/2025 21:16	66505	SMAN_T2	3	3	0	1.23	1.53	0.3	0	0	0	0	0	0	0	0
3/13/2025 21:16	52502	PROG_T2	0	0	0	0	0	0	-0.76	-0.75	1	1	0	900	900	0
3/13/2025 21:16	57205	ROSS_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
3/13/2025 21:16	44801	EDAN_T2	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
3/13/2025 21:16	66502	SMAN_T2	0	0	0	0	0	0	-0.11	-0.22	0	0	0	0	0	0
3/13/2025 21:16	63501	HEID_TBK1-2	28	32	4	0.23	0.31	0.08	0.64	0.54	0	0	0	0	0	0
3/13/2025 21:16	40501	CRES_T2	9	11	2	0.37	0.22	-0.15	0	0	0	0	0	0	0	0
3/13/2025 21:16	57401	SPAN_T1	2	2	0	1.2	1.25	0.05	0	0	0	0	0	0	0	0
3/13/2025 21:16	20103	AVOC_T1	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
3/13/2025 21:16	61102	BERK_T5	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/13/2025 21:16	62604	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:16	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:16	42701	AUGU_T1	55	1	-54	4.6	0.6	-4	0	0	2	2	0	1800	1800	0
3/13/2025 21:16	57203	ROSS_T1	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
3/13/2025 21:16	44302	BEAV_T2	0	0	0	0	0	0	0.46	0.44	0	0	0	0	0	0
3/13/2025 21:16	61101	BERK_T5	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/13/2025 21:16	10102	ALLE_T2	1	1	0	7.2	6.8	-0.4	0	0	0	0	0	0	0	0
3/13/2025 21:16	14801	TREI_T2	0	1	1	0	0.2	0.2	0.36	0.36	0	0	0	0	0	0
3/13/2025 21:16	54203	PENN_T1	18	18	0	0.84	0.98	0.14	0	0	0	0	0	0	0	0
3/13/2025 21:16	66504	SMAN_T2	0	0	0	0	0	0	-1.54	-1.46	0	0	0	0	0	0
3/13/2025 21:16	11203	ELHE_T1	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
3/13/2025 21:16	44502	HAMI_T2	1	1	0	3.6	3.7	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:16	21203	ECAR_T1	2	6	4	0.1	0.23	0.13	-0.5	-0.55	0	0	0	0	0	0
3/13/2025 21:16	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:16	60404	DILL_T2	0	0	0	0	0	0	-0.52	-0.58	1	1	0	1200	1200	0
3/13/2025 21:16	42902	MIDD_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
3/13/2025 21:16	46203	DANV_T2	418	440	22	1.19	1.52	0.33	0	0	0	0	0	0	0	0
3/13/2025 21:16	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:16	43301	WATS_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
3/13/2025 21:16	66901	SHIL_T2	0	0	0	0	0	0	-0.56	-0.59	0	0	0	0	0	0
3/13/2025 21:16	47104	MARL_T1	0	0	0	0	0	0	-1.03	-1.03	0	0	0	0	0	0
3/13/2025 21:16	13303	ORVI_T1	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
3/13/2025 21:16	62106	ELAN_T1	0	0	0	0	0	0	-0.05	-0.04	0	0	0	0	0	0
3/13/2025 21:16	57201	ROSS_T1	2	6	4	0.1	0.1	0	-0.6	-0.82	0	0	0	0	0	0
3/13/2025 21:16	46206	DANV_T2	0	0	0	0	0	0	1.69	1.74	2	2	0	2100	2100	0
3/13/2025 21:16	46201	DANV_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/13/2025 21:16	57403	SPAN_T1	13	3	-10	0.19	0.1	-0.09	-0.01	-0.01	0	0	0	0	0	0
3/13/2025 21:16	16103	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:16	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
3/13/2025 21:16	64502	LAVI_T1	214	248	34	0.24	0.27	0.03	0	0	0	0	0	0	0	0
3/13/2025 21:16	65203	PRIN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 21:16	65503	MOJO_T2	0	0	0	0	0	0	-0.26	-0.17	0	0	0	0	0	0
3/13/2025 21:16	23502	GEOR_T1	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
3/13/2025 21:16	21204	ECAR_T2	2	1	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/13/2025 21:16	42501	ALTA_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
3/13/2025 21:16	44203	POIN_T2	0	0	0	0	0	0	-0.99	-0.92	2	2	0	2100	2100	0
3/13/2025 21:16	65205	PRIN_T1	4	2	-2	0.58	1	0.42	0	0	0	0	0	0	0	0
3/13/2025 21:16	40502	CRES_T2	29	24	-5	0.34	0.42	0.08	0	0	0	0	0	0	0	0
3/13/2025 21:16	60803	BUCK_T1	6	5	-1	0.13	0.14	0.01	0	0	0	0	0	0	0	0
3/13/2025 21:16	65202	PRIN_T1	6	2	-4	0.22	0.5	0.28	0	0	0	0	0	0	0	0
3/13/2025 21:16	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:16	44505	HAMI_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
3/13/2025 21:16	64503	LAVI_T1	36	37	1	0.23	0.25	0.02	0	0	0	0	0	0	0	0
3/13/2025 21:16	61506	EPET_T2	0	0	0	0	0	0	-1.07	-1.05	1	1	0	900	900	0
3/13/2025 21:17	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:17	59202	THOM_T1	299	288	-11	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
3/13/2025 21:17	66902	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:17	24103	EHAZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:17	46004	BERW_T2	0	0	0	0	0	0	-0.78	-0.83	0	0	0	0	0	0
3/13/2025 21:17	42701	AUGU_T1	55	1	-54	4.6	0.6	-4	0	0	2	2	0	1800	1800	0
3/13/2025 21:17	23901	EFMO_T2	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
3/13/2025 21:17	44802	EDAN_T2	0	0	0	0	0	0	-1.02	-1.05	0	0	0	0	0	0
3/13/2025 21:17	15601	NSTR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:17	10206	ALLE_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:17	10705	CATA_T2	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
3/13/2025 21:17	61103	BERK_T5	1	0	-1	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
3/13/2025 21:17	10102	ALLE_T2	1	1	0	7.2	6.8	-0.4	0	0	0	0	0	0	0	0
3/13/2025 21:17	66903	SHIL_T2	0	0	0	0	0	0	-1.28	-1.29	0	0	0	0	0	0
3/13/2025 21:17	10702	CATA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/13/2025 21:17	42501	ALTA_T2	0	0	0	0	0	0	1.1	1.12	0	0	0	0	0	0
3/13/2025 21:17	40504	CRES_T1	35	41	6	0.31	0.38	0.07	0	0	0	0	0	0	0	0
3/13/2025 21:17	51305	WIND_T1	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
3/13/2025 21:17	46001	BERW_T1	0	0	0	0	0	0	0.47	0.52	0	0	0	0	0	0
3/13/2025 21:17	66504	SMAN_T2	0	0	0	0	0	0	-0.77	-0.73	0	0	0	0	0	0
3/13/2025 21:17	66505	SMAN_T2	3	3	0	1.23	1.53	0.3	0	0	0	0	0	0	0	0
3/13/2025 21:17	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:17	41304	FISH_T2	1	1	0	0	0	0	-0.12	-0.04	0	0	0	0	0	0
3/13/2025 21:17	61101	BERK_T5	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/13/2025 21:17	24105	EHAZ_T1	4	4	0	7.6	6.9	-0.7	0	0	0	0	0	0	0	0
3/13/2025 21:17	63803	HEMP_T1	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
3/13/2025 21:17	43504	WWIL_T1	3	4	1	0.5	0.28	-0.22	0.51	0.51	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/13/2025 21:17	10801	CHHI_T1	1	0	-1	0.1	0	-0.1	-1.02	-1.03	1	1	0	900	900	0
3/13/2025 21:17	59201	THOM_T1	22	21	-1	0.57	0.61	0.04	0	0	0	0	0	0	0	0
3/13/2025 21:17	42503	ALTA_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
3/13/2025 21:17	24102	EHAZ_T1	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/13/2025 21:17	63801	HEMP_T1	1	1	0	5.7	5.9	0.2	0	0	0	0	0	0	0	0
3/13/2025 21:17	61102	BERK_T5	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/13/2025 21:17	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:17	55002	NEWP_T1	4	3	-1	0.7	0.9	0.2	-0.62	-0.6	0	0	0	0	0	0
3/13/2025 21:17	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
3/13/2025 21:17	43505	WWIL_T1	1	1	0	2.3	2.1	-0.2	0	0	0	0	0	0	0	0
3/13/2025 21:17	43506	WWIL_T1	3	1	-2	0.83	1.9	1.07	0	0	0	0	0	0	0	0
3/13/2025 21:17	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	-1.37	-1.4	1	1	0	600	600	0
3/13/2025 21:17	67401	WAKE_T2	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
3/13/2025 21:17	40505	CRES_T1	0	9	9	0	0.13	0.13	0.16	0.16	0	0	0	0	0	0
3/13/2025 21:17	66901	SHIL_T2	0	0	0	0	0	0	-0.56	-0.59	0	0	0	0	0	0
3/13/2025 21:18	54201	PENN_T1	7	10	3	0.83	0.68	-0.15	0	0	0	0	0	0	0	0
3/13/2025 21:18	59202	THOM_T1	299	288	-11	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
3/13/2025 21:18	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:18	65207	PRIN_T4	3	4	1	0.9	0.97	0.07	0	0	0	0	0	0	0	0
3/13/2025 21:18	55002	NEWP_T1	4	3	-1	0.7	0.9	0.2	-0.62	-0.6	0	0	0	0	0	0
3/13/2025 21:18	51301	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:18	67605	WARW_T1	13	15	2	0.29	0.38	0.09	-0.88	-0.87	0	0	0	0	0	0
3/13/2025 21:18	46004	BERK_T2	0	0	0	0	0	0	-0.78	-0.83	0	0	0	0	0	0
3/13/2025 21:18	41902	REED_T1	0	0	0	0	0	0	0.96	0.93	0	0	0	0	0	0
3/13/2025 21:18	24105	EHAZ_T1	4	4	0	7.6	6.9	-0.7	0	0	0	0	0	0	0	0
3/13/2025 21:18	66505	SMAN_T2	3	3	0	1.23	1.53	0.3	-0.36	-0.55	1	1	0	900	900	0
3/13/2025 21:18	40504	CRES_T1	35	41	6	0.31	0.38	0.07	-0.59	-0.61	0	0	0	0	0	0
3/13/2025 21:18	57201	ROSS_T1	2	6	4	0.1	0.1	0	0	0	0	0	0	0	0	0
3/13/2025 21:18	41301	FISH_T1	6	6	0	0.67	0.72	0.05	-0.31	-0.33	0	0	0	0	0	0
3/13/2025 21:18	66502	SMAN_T2	0	0	0	0	0	0	-0.11	-0.22	0	0	0	0	0	0
3/13/2025 21:18	66902	SHIL_T2	0	0	0	0	0	0	-2.12	-2.2	0	0	0	0	0	0
3/13/2025 21:18	64702	LITI_T2	0	0	0	0	0	0	-0.83	-0.81	0	0	0	0	0	0
3/13/2025 21:18	44201	POIN_T1	0	0	0	0	0	0	-2.41	-2.39	1	1	0	1200	1200	0
3/13/2025 21:18	57205	ROSS_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
3/13/2025 21:18	60803	BUCK_T1	6	5	-1	0.13	0.14	0.01	0	0	0	0	0	0	0	0
3/13/2025 21:18	24104	EHAZ_T1	0	0	0	0	0	0	0	0	1	1	0	1200	1200	0
3/13/2025 21:18	44301	BEAV_T2	0	0	0	0	0	0	-0.04	0.07	1	1	0	600	600	0
3/13/2025 21:18	40501	CRES_T2	9	11	2	0.37	0.22	-0.15	0	0	0	0	0	0	0	0
3/13/2025 21:18	15702	TANN_T2	0	0	0	0	0	0	-0.49	-0.5	0	0	0	0	0	0
3/13/2025 21:18	57402	SPAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:18	10801	CHHI_T1	1	0	-1	0.1	0	-0.1	-1.02	-1.03	1	1	0	900	900	0
3/13/2025 21:18	46201	DANV_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/13/2025 21:18	55001	NEWP_T1	0	0	0	0	0	0	-0.55	-0.55	0	0	0	0	0	0
3/13/2025 21:18	42503	ALTA_T2	0	0	0	0	0	0	0.33	0.33	0	0	0	0	0	0
3/13/2025 21:18	57203	ROSS_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
3/13/2025 21:18	57404	SPAN_T2	0	0	0	0	0	0	-0.1	-0.11	1	1	0	1200	1200	0
3/13/2025 21:18	60801	BUCK_T1	19	18	-1	0.17	0.18	0.01	-0.27	-0.29	0	0	0	0	0	0
3/13/2025 21:18	65901	SAKR_T2	0	0	0	0	0	0	-1.36	-1.44	1	1	0	900	900	0
3/13/2025 21:18	46102	MACI_T1	6	12	6	0.17	0.15	-0.02	0.64	0.61	0	0	0	0	0	0
3/13/2025 21:18	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	-1.37	-1.4	1	1	0	600	600	0
3/13/2025 21:18	44502	HAMI_T2	1	1	0	3.6	3.7	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:18	15703	TANN_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
3/13/2025 21:18	60201	ATGL_T2	49	63	14	0.22	0.25	0.03	0	0	0	0	0	0	0	0
3/13/2025 21:18	57403	SPAN_T1	13	3	-10	0.19	0.1	-0.09	-0.01	-0.01	0	0	0	0	0	0
3/13/2025 21:18	67402	WAKE_T2	0	0	0	0	0	0	0.31	0.29	0	0	0	0	0	0
3/13/2025 21:18	15103	UPHA_T2	0	0	0	0	0	0	0.31	0.28	0	0	0	0	0	0
3/13/2025 21:18	54203	PENN_T1	18	18	0	0.84	0.98	0.14	0.49	0.47	0	0	0	0	0	0
3/13/2025 21:18	40505	CRES_T1	0	9	9	0	0.13	0.13	0	0	0	0	0	0	0	0
3/13/2025 21:18	42501	ALTA_T2	0	0	0	0	0	0	0.55	0.56	0	0	0	0	0	0
3/13/2025 21:18	57401	SPAN_T1	2	2	0	1.2	1.25	0.05	0	0	0	0	0	0	0	0
3/13/2025 21:18	67401	WAKE_T2	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
3/13/2025 21:18	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:18	59201	THOM_T1	22	21	-1	0.57	0.61	0.04	0	0	0	0	0	0	0	0
3/13/2025 21:18	67303	WYOM_T2	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
3/13/2025 21:18	40502	CRES_T2	29	24	-5	0.34	0.42	0.08	0.05	0.05	0	0	0	0	0	0
3/13/2025 21:18	46203	DANV_T2	418	440	22	1.19	1.52	0.33	-1.17	-1.2	0	0	0	0	0	0
3/13/2025 21:18	66903	SHIL_T2	0	0	0	0	0	0	-1.28	-1.29	0	0	0	0	0	0
3/13/2025 21:18	50701	SMEC_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
3/13/2025 21:18	24102	EHAZ_T1	2	2	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/13/2025 21:18	41901	REED_T1	8	8	0	0.26	0.28	0.02	0	0	0	0	0	0	0	0
3/13/2025 21:18	67601	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:18	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:18	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:18	45501	DEER_T2	0	1	1	0	0.3	0.3	0.93	0.99	2	2	0	1200	1200	0
3/13/2025 21:18	54503	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:18	11302	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:19	67605	WARW_T1	13	15	2	0.29	0.38	0.09	0	0	0	0	0	0	0	0
3/13/2025 21:19	54501	ENOL_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/13/2025 21:19	67603	WARW_T1	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
3/13/2025 21:19	47103	MARL_T2	9	10	1	0.17	0.19	0.02	-0.63	-0.7	0	0	0	0	0	0
3/13/2025 21:19	40703	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:19	47102	MARL_T2	12	17	5	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
3/13/2025 21:19	57203	ROSS_T1	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
3/13/2025 21:19	57403	SPAN_T1	13	3	-10	0.19	0.1	-0.09	-0.01	-0.01	0	0	0	0	0	0
3/13/2025 21:19	54504	ENOL_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
3/13/2025 21:19	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
3/13/2025 21:19	67401	WAKE_T2	5	0	-5	0.14	0	-0.14	0	0	0	0	0	0	0	0
3/13/2025 21:19	18001	ZION_T1	2	2	0	9.35	9.55	0.2	0	0	0	0	0	0	0	0
3/13/2025 21:19	66502	SMAN_T2	0	0	0	0	0	0	-0.11	-0.22	0	0	0	0	0	0
3/13/2025 21:19	57404	SPAN_T2	0	0	0	0	0	0	-0.1	-0.11	1	1	0	1200	1200	0
3/13/2025 21:19	52401	GRPA_T2	1	2	1	0.1	0.3	0.2	-0.8	-0.77	0	0	0	0	0	0
3/13/2025 21:19	66504	SMAN_T2	0	0	0	0	0	0	-0.77	-0.73	0	0	0	0	0	0
3/13/2025 21:19	61101	BERK_T5	1	1	0	0.2	0.2	0	-1.01	-1.01	0	0	0	0	0	0
3/13/2025 21:19	40505	CRES_T1	0	9	9	0	0.13	0.13	0.32	0.32	0	0	0	0	0	0
3/13/2025 21:19	67402	WAKE_T2	0	0	0	0	0	0	0.15	0.14	0	0	0	0	0	0
3/13/2025 21:19	54503	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:19	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:19	61102	BERK_T5	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/13/2025 21:19	66505	SMAN_T2	3	3	0	1.23	1.53	0.3	0	0	0	0	0	0	0	0
3/13/2025 21:19	46902	MNTG_T2	0	0	0	0	0	0	-0.56	-0.55	1	1	0	600	600	0
3/13/2025 21:19	57401	SPAN_T1	2	2	0	1.2	1.25	0.05	0	0	0	0	0	0	0	0
3/13/2025 21:19	52402	GRPA_T2	3	5	2	0.87	0.56	-0.31	0	0	0	0	0	0	0	0
3/13/2025 21:19	40504	CRES_T1	35	41	6	0.31	0.38	0.07	0	0	0	0	0	0	0	0
3/13/2025 21:19	61503	EPET_T1	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
3/13/2025 21:19	57201	ROSS_T1	2	6	4	0.1	0.1	0	0	0	0	0	0	0	0	0
3/13/2025 21:19	61103	BERK_T5	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 21:19	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:19	44502	HAMI_T2	1	1	0	3.6	3.7	0.1	0.01	0.02	0	0	0	0	0	0
3/13/2025 21:19	40802	EXCH_T2	0	0	0	0	0	0	-0.28	-0.3	0	0	0	0	0	0
3/13/2025 21:19	44701	MUNC_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 21:19	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:19	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	-1.37	-1.4	1	1	0	600	600	0
3/13/2025 21:19	42501	ALTA_T2	0	0	0	0	0	0	1.1	1.12	0	0	0	0	0	0
3/13/2025 21:20	42701	AUGU_T1	55	1	-54	4.6	0.6	-4	0	0	2	2	0	1800	1800	0
3/13/2025 21:20	48303	ORWI_T2	19	37	18	0.19	0.19	0	0.45	0.44	0	0	0	0	0	0
3/13/2025 21:20	66505	SMAN_T2	3	3	0	1.23	1.53	0.3	0	0	0	0	0	0	0	0
3/13/2025 21:20	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	-3.94	-4.1	2	2	0	1200	1200	0
3/13/2025 21:20	14802	TREI_T2	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
3/13/2025 21:20	66504	SMAN_T2	0	0	0	0	0	0	-0.77	-0.73	0	0	0	0	0	0
3/13/2025 21:20	55105	WERT_T1	0	0	0	0	0	0	-0.82	-0.81	1	1	0	900	900	0
3/13/2025 21:20	44301	BEAV_T2	0	0	0	0	0	0	-0.04	0.07	1	1	0	600	600	0
3/13/2025 21:20	42902	MIDD_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
3/13/2025 21:20	67602	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:20	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:20	52401	GRPA_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/13/2025 21:20	67605	WARW_T1	13	15	2	0.29	0.38	0.09	0	0	0	0	0	0	0	0
3/13/2025 21:20	41001	LAUR_T2	50	66	16	0.15	0.22	0.07	0	0	0	0	0	0	0	0
3/13/2025 21:20	48302	ORWI_T2	18	22	4	1.19	1.05	-0.14	0	0	0	0	0	0	0	0
3/13/2025 21:20	62102	ELAN_T1	0	0	0	0	0	0	0.5	0.49	0	0	0	0	0	0
3/13/2025 21:20	47103	MARL_T2	9	10	1	0.17	0.19	0.02	-0.63	-0.7	0	0	0	0	0	0
3/13/2025 21:20	11301	EMMA_T1	0	0	0	0	0	0	-0.94	-0.95	0	0	0	0	0	0
3/13/2025 21:20	40504	CRES_T1	35	41	6	0.31	0.38	0.07	0	0	0	0	0	0	0	0
3/13/2025 21:20	44302	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:20	57402	SPAN_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
3/13/2025 21:20	44203	POIN_T2	0	0	0	0	0	0	-1.98	-1.83	4	4	0	4200	4200	0
3/13/2025 21:20	67603	WARW_T1	0	0	0	0	0	0	-0.13	-0.16	0	0	0	0	0	0
3/13/2025 21:20	65502	MOJO_T2	0	0	0	0	0	0	-1.1	-1.14	0	0	0	0	0	0
3/13/2025 21:20	43202	MVIL_T2	44	53	9	0.26	0.27	0.01	-1.48	-1.46	0	0	0	0	0	0
3/13/2025 21:20	47401	PENS_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/13/2025 21:20	41901	REED_T1	8	8	0	0.26	0.28	0.02	0	0	0	0	0	0	0	0
3/13/2025 21:20	45501	DEER_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/13/2025 21:20	47403	PENS_T1	1	5	4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/13/2025 21:20	15104	UPHA_T2	0	0	0	0	0	0	0.29	0.33	0	0	0	0	0	0
3/13/2025 21:20	40505	CRES_T1	0	9	9	0	0.13	0.13	0	0	0	0	0	0	0	0
3/13/2025 21:20	47102	MARL_T2	12	17	5	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
3/13/2025 21:20	41301	FISH_T1	6	6	0	0.67	0.72	0.05	-0.31	-0.33	0	0	0	0	0	0
3/13/2025 21:20	61505	EPET_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:20	40101	HUNT_T2	0	0	0	0	0	0	-1.8	-1.84	0	0	0	0	0	0
3/13/2025 21:20	58202	NEWV_T1	0	9	9	0	0.93	0.93	-0.06	-0.19	0	0	0	0	0	0
3/13/2025 21:20	40502	CRES_T2	29	24	-5	0.34	0.42	0.08	0	0	0	0	0	0	0	0
3/13/2025 21:20	52402	GRPA_T2	3	5	2	0.87	0.56	-0.31	0	0	0	0	0	0	0	0
3/13/2025 21:20	44802	EDAN_T2	0	0	0	0	0	0	-1.02	-1.05	0	0	0	0	0	0
3/13/2025 21:20	47101	MARL_T1	0	0	0	0	0	0	-1.25	-1.26	0	0	0	0	0	0
3/13/2025 21:20	54206	PENN_T2	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
3/13/2025 21:20	43402	BENT_T1	0	3	3	0	0.2	0.2	-1.03	-1.05	1	1	0	900	900	0
3/13/2025 21:20	50701	SMEC_T1	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
3/13/2025 21:20	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/13/2025 21:20	41002	LAUR_T2	16	19	3	0.3	0.31	0.01	-1	-0.99	0	0	0	0	0	0
3/13/2025 21:20	57403	SPAN_T1	13	3	-10	0.19	0.1	-0.09	-0.01	-0.01	0	0	0	0	0	0
3/13/2025 21:20	64101	REFR_T1	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
3/13/2025 21:20	41902	REED_T1	0	0	0	0	0	0	0.96	0.93	0	0	0	0	0	0
3/13/2025 21:20	65904	SAKR_T2	0	0	0	0	0	0	-1.74	-1.73	2	2	0	900	900	0
3/13/2025 21:20	40501	CRES_T2	9	11	2	0.37	0.22	-0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/13/2025 21:20	54501	ENOL_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/13/2025 21:20	45502	DERR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:20	54503	ENOL_T2	0	0	0	0	0	0	-0.47	-0.49	1	1	0	600	600	0
3/13/2025 21:20	57401	SPAN_T1	2	2	0	1.2	1.25	0.05	0	0	0	0	0	0	0	0
3/13/2025 21:20	14801	TREI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/13/2025 21:20	58201	NEWV_T1	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
3/13/2025 21:21	54203	PENN_T1	18	18	0	0.84	0.98	0.14	0.49	0.47	0	0	0	0	0	0
3/13/2025 21:21	66504	SMAN_T2	0	0	0	0	0	0	-0.73	-0.7	0	0	0	0	0	0
3/13/2025 21:21	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:21	66903	SHIL_T2	0	0	0	0	0	0	-1.29	-1.29	0	0	0	0	0	0
3/13/2025 21:21	44505	HAMI_T2	0	0	0	0	0	0	-0.45	-0.5	0	0	0	0	0	0
3/13/2025 21:21	52204	DEVO_T2	2	1	-1	3.3	6.4	3.1	0	0	0	0	0	0	0	0
3/13/2025 21:21	53501	EVIL_T2	1	1	0	0.1	0.8	0.7	0	0	0	0	0	0	0	0
3/13/2025 21:21	47403	PENS_T1	1	5	4	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/13/2025 21:21	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	-4.11	-4.2	3	3	0	1800	1800	0
3/13/2025 21:21	44201	POIN_T1	0	0	0	0	0	0	-2.39	-2.39	1	1	0	1200	1200	0
3/13/2025 21:21	42501	ALTA_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
3/13/2025 21:21	45501	DERR_T2	0	1	1	0	0.3	0.3	0.5	0.35	1	1	0	600	600	0
3/13/2025 21:21	20403	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:21	64101	REFR_T1	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
3/13/2025 21:21	57201	ROSS_T1	2	6	4	0.1	0.1	0	-0.6	-0.82	0	0	0	0	0	0
3/13/2025 21:21	46203	DANV_T2	418	440	22	1.19	1.52	0.33	-1.2	-1.17	0	0	0	0	0	0
3/13/2025 21:21	47401	PENS_T1	0	2	2	0	0.15	0.15	0.67	0.62	0	0	0	0	0	0
3/13/2025 21:21	61102	BERK_T5	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/13/2025 21:21	62105	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:21	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:21	57402	SPAN_T2	0	0	0	0	0	0	-0.61	-0.61	0	0	0	0	0	0
3/13/2025 21:21	61502	EPET_T1	0	0	0	0	0	0	-1.29	-1.29	0	0	0	0	0	0
3/13/2025 21:21	40201	BEGA_T2	9	8	-1	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/13/2025 21:21	61103	BERK_T5	1	0	-1	0.1	0	-0.1	-0.01	-0.01	0	0	0	0	0	0
3/13/2025 21:21	15001	BLMO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:21	60803	BUCK_T1	6	5	-1	0.13	0.14	0.01	0	0	0	0	0	0	0	0
3/13/2025 21:21	13303	ORVI_T1	0	0	0	0	0	0	0.75	0.74	0	0	0	0	0	0
3/13/2025 21:21	64502	LAVI_T1	214	248	34	0.24	0.27	0.03	0	0	0	0	0	0	0	0
3/13/2025 21:21	66505	SMAN_T2	3	3	0	1.23	1.53	0.3	0	0	0	0	0	0	0	0
3/13/2025 21:21	46001	BERW_T1	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
3/13/2025 21:21	46201	DANV_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/13/2025 21:21	57401	SPAN_T1	2	2	0	1.2	1.25	0.05	-0.31	-0.4	1	1	0	600	600	0
3/13/2025 21:21	50701	SMEC_T1	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
3/13/2025 21:21	45802	HEGI_T2	32	43	11	0.51	0.61	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:21	59201	THOM_T1	22	21	-1	0.57	0.61	0.04	0	0	0	0	0	0	0	0
3/13/2025 21:21	59202	THOM_T1	299	288	-11	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
3/13/2025 21:21	64503	LAVI_T1	36	37	1	0.23	0.25	0.02	0	0	0	0	0	0	0	0
3/13/2025 21:21	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:21	66502	SMAN_T2	0	0	0	0	0	0	-0.65	-0.68	0	0	0	0	0	0
3/13/2025 21:21	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
3/13/2025 21:21	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/13/2025 21:21	40101	HUNT_T2	0	0	0	0	0	0	-1.84	-1.8	0	0	0	0	0	0
3/13/2025 21:21	67401	WAKE_T2	5	0	-5	0.14	0	-0.14	-1.98	-1.98	0	0	0	0	0	0
3/13/2025 21:21	43304	WATS_T2	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
3/13/2025 21:21	44502	HAMI_T2	1	1	0	3.6	3.7	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:21	41002	LAUR_T2	16	19	3	0.3	0.31	0.01	0	0	0	0	0	0	0	0
3/13/2025 21:21	60801	BUCK_T1	19	18	-1	0.17	0.18	0.01	0	0	0	0	0	0	0	0
3/13/2025 21:21	20401	ASHF_T2	4	8	4	0.18	0.44	0.26	0	0	0	0	0	0	0	0
3/13/2025 21:21	63801	HEMP_T1	0	0	0	0	0	0	0	0.42	0	0	0	0	0	0
3/13/2025 21:21	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:21	42902	MIDD_T2	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
3/13/2025 21:21	67605	WARW_T1	13	15	2	0.29	0.38	0.09	-1.75	-1.79	0	0	0	0	0	0
3/13/2025 21:21	63804	HEMP_T1	1	1	0	5.7	5.9	0.2	0.66	0.64	0	0	0	0	0	0
3/13/2025 21:21	57403	SPAN_T1	13	3	-10	0.19	0.1	-0.09	-0.01	-0.01	0	0	0	0	0	0
3/13/2025 21:21	61101	BERK_T5	1	1	0	0.2	0.2	0	-1.01	-1.01	0	0	0	0	0	0
3/13/2025 21:21	40504	CRES_T1	35	41	6	0.31	0.38	0.07	0	0	0	0	0	0	0	0
3/13/2025 21:21	54201	PENN_T1	7	10	3	0.83	0.68	-0.15	0	0	0	0	0	0	0	0
3/13/2025 21:21	63803	HEMP_T1	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
3/13/2025 21:21	46206	DANV_T2	0	0	0	0	0	0	1.74	1.77	2	2	0	2100	2100	0
3/13/2025 21:21	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:21	44801	EDAN_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
3/13/2025 21:21	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:21	54503	ENOL_T2	0	0	0	0	0	0	-0.47	-0.49	1	1	0	600	600	0
3/13/2025 21:21	66901	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:21	67901	WNHO_T2	35	43	8	0.27	0.26	-0.01	-0.39	-0.43	1	1	0	900	900	0
3/13/2025 21:21	58202	NEWV_T1	0	9	9	0	0.93	0.93	0	0	0	0	0	0	0	0
3/13/2025 21:21	44301	BEAV_T2	0	0	0	0	0	0	0.07	0.09	1	1	0	600	600	0
3/13/2025 21:21	54501	ENOL_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/13/2025 21:21	66503	SMAN_T2	0	0	0	0	0	0	0.27	0.25	0	0	0	0	0	0
3/13/2025 21:21	58201	NEWV_T1	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
3/13/2025 21:21	54504	ENOL_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
3/13/2025 21:21	41001	LAUR_T2	50	66	16	0.15	0.22	0.07	0	0	0	0	0	0	0	0
3/13/2025 21:21	52101	MEIS_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/13/2025 21:21	20402	ASHF_T2	4	9	5	0.25	0.29	0.04	0	0	0	0	0	0	0	0
3/13/2025 21:21	63501	HEID_TBK1-2	28	32	4	0.23	0.31	0.08	0.82	0.98	0	0	0	0	0	0
3/13/2025 21:21	40505	CRES_T1	0	9	9	0	0.13	0.13	0.16	0.18	0	0	0	0	0	0
3/13/2025 21:21	64501	LAVI_T1	143	142	-1	0.45	0.45	0	-1.98	-1.94	0	0	0	0	0	0
3/13/2025 21:21	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:22	64202	KINZ_T1	2	2	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/13/2025 21:22	67603	WARW_T1	0	0	0	0	0	0	-0.16	-0.12	0	0	0	0	0	0
3/13/2025 21:22	44802	EDAN_T2	0	0	0	0	0	0	-1.05	-1	0	0	0	0	0	0
3/13/2025 21:22	44502	HAMI_T2	1	1	0	3.6	3.7	0.1	0.02	0.02	0	0	0	0	0	0
3/13/2025 21:22	42701	AUGU_T1	55	1	-54	4.6	0.6	-4	0	0	0	0	0	0	0	0
3/13/2025 21:22	63804	HEMP_T1	1	1	0	5.7	5.9	0.2	0	0	0	0	0	0	0	0
3/13/2025 21:22	61306	EARL_T1	19	13	-6	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
3/13/2025 21:22	64201	KINZ_T1	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
3/13/2025 21:22	66502	SMAN_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
3/13/2025 21:22	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:22	52501	PROG_T1	0	0	0	0	0	0	0.41	0.38	1	1	0	300	300	0
3/13/2025 21:22	42902	MIDD_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
3/13/2025 21:22	42501	ALTA_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
3/13/2025 21:22	43801	SWIL_T1	2	2	0	3.2	3.2	0	0	0	0	0	0	0	0	0
3/13/2025 21:22	66505	SMAN_T2	3	3	0	1.23	1.53	0.3	-0.55	-0.45	1	1	0	900	900	0
3/13/2025 21:22	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:22	46001	BERW_T1	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
3/13/2025 21:22	67901	WNHO_T2	35	43	8	0.27	0.26	-0.01	-0.39	-0.43	1	1	0	900	900	0
3/13/2025 21:22	43202	MVIL_T2	44	53	9	0.26	0.27	0.01	-0.73	-0.73	0	0	0	0	0	0
3/13/2025 21:22	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.25	1	1	0	600	600	0
3/13/2025 21:22	46201	DANV_T2	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/13/2025 21:22	60801	BUCK_T1	19	18	-1	0.17	0.18	0.01	0	0	0	0	0	0	0	0
3/13/2025 21:22	40701	FFLD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:22	57201	ROSS_T1	2	6	4	0.1	0.1	0	0	0	0	0	0	0	0	0
3/13/2025 21:22	41301	FISH_T1	6	6	0	0.67	0.72	0.05	-0.33	-0.32	0	0	0	0	0	0
3/13/2025 21:22	55101	WERT_T1	0	0	0	0	0	0	-1.62	-1.61	2	2	0	1500	1500	0
3/13/2025 21:22	46203	DANV_T2	418	440	22	1.19	1.52	0.33	-2.4	-2.34	0	0	0	0	0	0
3/13/2025 21:22	51301	WIND_T1	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
3/13/2025 21:22	55105	WERT_T1	0	0	0	0	0	0	-0.81	-0.83	1	1	0	900	900	0
3/13/2025 21:22	41901	REED_T1	8	8	0	0.26	0.28	0.02	0	0	0	0	0	0	0	0
3/13/2025 21:22	61304	EARL_T1	202	263	61	0.23	0.2	-0.03	-0.38	-0.39	0	0	0	0	0	0
3/13/2025 21:22	57205	ROSS_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
3/13/2025 21:22	60803	BUCK_T1	6	5	-1	0.13	0.14	0.01	-0.58	-0.59	1	1	0	600	600	0
3/13/2025 21:22	63801	HEMP_T1	0	0	0	0	0	0	0	0.42	0	0	0	0	0	0
3/13/2025 21:22	67605	WARW_T1	13	15	2	0.29	0.38	0.09	-0.87	-0.89	0	0	0	0	0	0
3/13/2025 21:22	67401	WAKE_T2	5	0	-5	0.14	0	-0.14	-0.99	-0.99	0	0	0	0	0	0
3/13/2025 21:22	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
3/13/2025 21:22	64203	KINZ_T1	0	0	0	0	0	0	-0.47	-0.55	1	1	0	600	600	0
3/13/2025 21:22	46206	DANV_T2	0	0	0	0	0	0	1.74	1.77	2	2	0	2100	2100	0
3/13/2025 21:22	54503	ENOL_T2	0	0	0	0	0	0	-0.49	-0.5	1	1	0	600	600	0
3/13/2025 21:22	61803	EELI_T2	0	0	0	0	0	0	0.72	0.62	0	0	0	0	0	0
3/13/2025 21:22	64204	KINZ_T1	1	10	9	1	0.19	-0.81	0	0	0	0	0	0	0	0
3/13/2025 21:22	62105	ELAN_T1	0	0	0	0	0	0	0.31	0.33	0	0	0	0	0	0
3/13/2025 21:22	55001	NEWP_T1	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
3/13/2025 21:22	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 21:22	59201	THOM_T1	22	21	-1	0.57	0.61	0.04	0	0	0	0	0	0	0	0
3/13/2025 21:22	55002	NEWP_T1	4	3	-1	0.7	0.9	0.2	-0.6	-0.58	0	0	0	0	0	0
3/13/2025 21:22	41902	REED_T1	0	0	0	0	0	0	0.93	0.99	0	0	0	0	0	0
3/13/2025 21:22	63501	HEID_TBK1-2	28	32	4	0.23	0.31	0.08	0.27	0.33	0	0	0	0	0	0
3/13/2025 21:22	43802	SWIL_T1	0	0	0	0	0	0	-0.28	-0.29	1	1	0	600	600	0
3/13/2025 21:22	44801	EDAN_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
3/13/2025 21:22	42501	ALTA_T2	0	0	0	0	0	0	0.33	0.35	0	0	0	0	0	0
3/13/2025 21:22	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	-2.8	-2.76	2	2	0	1200	1200	0
3/13/2025 21:22	59202	THOM_T1	299	288	-11	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
3/13/2025 21:22	62106	ELAN_T1	0	0	0	0	0	0	-0.04	-0.05	0	0	0	0	0	0
3/13/2025 21:23	45501	DERR_T2	0	1	1	0	0.3	0.3	0.5	0.35	1	1	0	600	600	0
3/13/2025 21:23	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:23	67601	WARW_T2	0	0	0	0	0	0	-0.57	-0.55	0	0	0	0	0	0
3/13/2025 21:23	52401	GRPA_T2	1	2	1	0.1	0.3	0.2	-0.77	-0.77	0	0	0	0	0	0
3/13/2025 21:23	40505	CRES_T1	0	9	9	0	0.13	0.13	0.32	0.36	0	0	0	0	0	0
3/13/2025 21:23	55002	NEWP_T1	4	3	-1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
3/13/2025 21:23	44202	POIN_T2	0	0	0	0	0	0	-0.54	-0.7	1	1	0	1200	1200	0
3/13/2025 21:23	40601	PIGR_T1	70	158	88	0.18	0.26	0.08	0	0	0	0	0	0	0	0
3/13/2025 21:23	67106	SPRI_T2	0	0	0	0	0	0	-1.34	-1.35	1	1	0	900	900	0
3/13/2025 21:23	58701	ROSE_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
3/13/2025 21:23	67605	WARW_T1	13	15	2	0.29	0.38	0.09	0	0	0	0	0	0	0	0
3/13/2025 21:23	65802	RTWN_T2	0	0	0	0	0	0	-0.25	-0.29	0	0	0	0	0	0
3/13/2025 21:23	54503	ENOL_T2	0	0	0	0	0	0	-0.49	-0.5	1	1	0	600	600	0
3/13/2025 21:23	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:23	55101	WERT_T1	0	0	0	0	0	0	-1.62	-1.61	2	2	0	1500	1500	0
3/13/2025 21:23	58705	ROSE_T2	5	5	0	2.46	2.46	0	0	0	0	0	0	0	0	0
3/13/2025 21:23	43202	MVIL_T2	44	53	9	0.26	0.27	0.01	-0.73	-0.73	0	0	0	0	0	0
3/13/2025 21:23	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:23	40602	PIGR_T1	0	0	0	0	0	0	0.44	0.43	0	0	0	0	0	0
3/13/2025 21:23	44201	POIN_T1	0	0	0	0	0	0	-2.39	-2.39	1	1	0	1200	1200	0
3/13/2025 21:23	44802	EDAN_T2	0	0	0	0	0	0	-1.05	-1	0	0	0	0	0	0
3/13/2025 21:23	40902	JESH_T1	0	0	0	0	0	0	-0.92	-0.91	0	0	0	0	0	0
3/13/2025 21:23	40501	CRES_T2	9	11	2	0.37	0.22	-0.15	0.62	0.62	0	0	0	0	0	0
3/13/2025 21:23	40504	CRES_T1	35	41	6	0.31	0.38	0.07	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/13/2025 21:23	55001	NEWP_T1	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
3/13/2025 21:23	58201	NEWV_T1	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
3/13/2025 21:23	65503	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:23	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:23	42701	AUGU_T1	55	1	-54	4.6	0.6	-4	0	0	2	2	0	1800	1800	0
3/13/2025 21:23	44502	HAMI_T2	1	1	0	3.6	3.7	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:23	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/13/2025 21:23	54206	PENN_T2	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
3/13/2025 21:23	40502	CRES_T2	29	24	-5	0.34	0.42	0.08	0.05	0.05	0	0	0	0	0	0
3/13/2025 21:23	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/13/2025 21:23	57401	SPAN_T1	2	2	0	1.2	1.25	0.05	0	0	0	0	0	0	0	0
3/13/2025 21:23	58102	NEKI_T1	1	1	0	1.3	1.4	0.1	0.05	0.04	0	0	0	0	0	0
3/13/2025 21:23	52402	GRPA_T2	3	5	2	0.87	0.56	-0.31	0	0	0	0	0	0	0	0
3/13/2025 21:23	61505	EPET_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:23	57201	ROSS_T1	2	6	4	0.1	0.1	0	-1.63	-1.45	0	0	0	0	0	0
3/13/2025 21:23	47203	FAXO_T2	0	0	0	0	0	0	-0.46	-0.47	0	0	0	0	0	0
3/13/2025 21:23	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:23	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:23	57403	SPAN_T1	13	3	-10	0.19	0.1	-0.09	0	0	0	0	0	0	0	0
3/13/2025 21:23	42903	MIDD_T2	0	0	0	0	0	0	-0.6	-0.56	0	0	0	0	0	0
3/13/2025 21:23	40901	JESH_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/13/2025 21:23	58202	NEWV_T1	0	9	9	0	0.93	0.93	-0.19	-0.22	0	0	0	0	0	0
3/13/2025 21:23	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
3/13/2025 21:23	52101	MEIS_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/13/2025 21:23	66505	SMAN_T2	3	3	0	1.23	1.53	0.3	0	0	0	0	0	0	0	0
3/13/2025 21:23	61702	ELIZ_T2	0	0	0	0	0	0	-0.88	-0.88	1	1	0	300	300	0
3/13/2025 21:24	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:24	57205	ROSS_T1	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
3/13/2025 21:24	41202	KENM_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:24	41204	KENM_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
3/13/2025 21:24	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:24	57403	SPAN_T1	13	3	-10	0.19	0.1	-0.09	-0.01	-0.06	0	0	0	0	0	0
3/13/2025 21:24	52403	GRPA_T2	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
3/13/2025 21:24	67502	WEWI_T2	57	110	53	0.16	0.19	0.03	0	0	0	0	0	0	0	0
3/13/2025 21:24	66505	SMAN_T2	3	3	0	1.23	1.53	0.3	0	0	0	0	0	0	0	0
3/13/2025 21:24	67201	TEHI_T1	0	0	0	0	0	0	0.55	0.58	0	0	0	0	0	0
3/13/2025 21:24	40504	CRES_T1	35	41	6	0.31	0.38	0.07	0	0	0	0	0	0	0	0
3/13/2025 21:24	40505	CRES_T1	0	9	9	0	0.13	0.13	0.16	0.18	0	0	0	0	0	0
3/13/2025 21:24	44802	EDAN_T2	0	0	0	0	0	0	-1.05	-1	0	0	0	0	0	0
3/13/2025 21:24	67503	WEWI_T2	16	23	7	0.11	0.12	0.01	0	0	0	0	0	0	0	0
3/13/2025 21:24	66502	SMAN_T2	0	0	0	0	0	0	-0.22	-0.23	0	0	0	0	0	0
3/13/2025 21:24	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:24	57401	SPAN_T1	2	2	0	1.2	1.25	0.05	0	0	0	0	0	0	0	0
3/13/2025 21:24	62605	ENGL_T1	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
3/13/2025 21:24	67605	WARW_T1	13	15	2	0.29	0.38	0.09	0	0	0	0	0	0	0	0
3/13/2025 21:24	46004	BERW_T2	0	0	0	0	0	0	-0.83	-0.81	0	0	0	0	0	0
3/13/2025 21:24	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
3/13/2025 21:24	57201	ROSS_T1	2	6	4	0.1	0.1	0	0	0	0	0	0	0	0	0
3/13/2025 21:24	62604	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:24	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:24	64702	LITI_T2	0	0	0	0	0	0	-0.81	-0.87	0	0	0	0	0	0
3/13/2025 21:24	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:24	44301	BEAV_T2	0	0	0	0	0	0	0.07	0.09	1	1	0	600	600	0
3/13/2025 21:24	52402	GRPA_T2	3	5	2	0.87	0.56	-0.31	0	0	0	0	0	0	0	0
3/13/2025 21:24	52401	GRPA_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/13/2025 21:25	41901	REED_T1	8	8	0	0.26	0.28	0.02	0	0	0	0	0	0	0	0
3/13/2025 21:25	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:25	66504	SMAN_T2	0	0	0	0	0	0	-0.73	-0.7	0	0	0	0	0	0
3/13/2025 21:25	51306	WIND_T2	0	0	0	0	0	0	0.06	0	0	0	0	0	0	0
3/13/2025 21:25	42501	ALTA_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
3/13/2025 21:25	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.25	1	1	0	600	600	0
3/13/2025 21:25	57401	SPAN_T1	2	2	0	1.2	1.25	0.05	0	0	0	0	0	0	0	0
3/13/2025 21:25	57403	SPAN_T1	13	3	-10	0.19	0.1	-0.09	-0.01	-0.12	0	0	0	0	0	0
3/13/2025 21:25	44801	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:25	41902	REED_T1	0	0	0	0	0	0	0.93	0.99	0	0	0	0	0	0
3/13/2025 21:25	53501	EVIL_T2	1	1	0	0.1	0.8	0.7	-0.3	-0.33	0	0	0	0	0	0
3/13/2025 21:25	66505	SMAN_T2	3	3	0	1.23	1.53	0.3	0	0	0	0	0	0	0	0
3/13/2025 21:25	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
3/13/2025 21:25	44301	BEAV_T2	0	0	0	0	0	0	0.07	0.09	1	1	0	600	600	0
3/13/2025 21:25	44202	POIN_T2	0	0	0	0	0	0	-0.54	-0.7	1	1	0	1200	1200	0
3/13/2025 21:25	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:25	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
3/13/2025 21:25	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	-1.4	-1.38	1	1	0	600	600	0
3/13/2025 21:25	47101	MARL_T1	0	0	0	0	0	0	-1.26	-1.2	0	0	0	0	0	0
3/13/2025 21:26	40802	EXCH_T2	0	0	0	0	0	0	-0.3	-0.29	0	0	0	0	0	0
3/13/2025 21:26	43402	BENT_T1	0	3	3	0	0.2	0.2	-1.05	-1.05	1	1	0	900	900	0
3/13/2025 21:26	55105	WERT_T1	0	0	0	0	0	0	-0.81	-0.83	1	1	0	900	900	0
3/13/2025 21:26	59202	THOM_T1	299	288	-11	0.4	0.36	-0.04	0	0	0	0	0	0	0	0
3/13/2025 21:26	46506	LOHA_T1	3	3	0	4.53	4.23	-0.3	0	0	0	0	0	0	0	0
3/13/2025 21:26	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/13/2025 21:26	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
3/13/2025 21:26	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:26	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:26	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	-1.4	-1.38	1	1	0	600	600	0
3/13/2025 21:26	61303	EARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/13/2025 21:26	45501	DERR_T2	0	1	1	0	0.3	0.3	0.99	0.7	2	2	0	1200	1200	0
3/13/2025 21:26	61306	EARL_T1	19	13	-6	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
3/13/2025 21:26	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
3/13/2025 21:26	46504	LOHA_T1	2	2	0	0.55	0.95	0.4	0	0	0	0	0	0	0	0
3/13/2025 21:26	42902	MIDD_T2	0	0	0	0	0	0	-0.45	-0.45	0	0	0	0	0	0
3/13/2025 21:26	44201	POIN_T1	0	0	0	0	0	0	-2.39	-2.39	1	1	0	1200	1200	0
3/13/2025 21:26	66505	SMAN_T2	3	3	0	1.23	1.53	0.3	0	0	0	0	0	0	0	0
3/13/2025 21:26	57401	SPAN_T1	2	2	0	1.2	1.25	0.05	0	0	0	0	0	0	0	0
3/13/2025 21:26	61304	EARL_T1	202	263	61	0.23	0.2	-0.03	-0.38	-0.39	0	0	0	0	0	0
3/13/2025 21:26	54503	ENOL_T2	0	0	0	0	0	0	-0.49	-0.5	1	1	0	600	600	0
3/13/2025 21:26	46901	MNTG_T2	0	0	0	0	0	0	-0.2	-0.24	1	1	0	1200	1200	0
3/13/2025 21:26	57403	SPAN_T1	13	3	-10	0.19	0.1	-0.09	-0.01	-0.06	0	0	0	0	0	0
3/13/2025 21:26	57205	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:26	58401	MORO_T1	0	0	0	0	0	0	-2.58	-2.5	2	2	0	1200	1200	0
3/13/2025 21:26	57201	ROSS_T1	2	6	4	0.1	0.1	0	0	0	0	0	0	0	0	0
3/13/2025 21:26	44301	BEAV_T2	0	0	0	0	0	0	0.07	0.09	1	1	0	600	600	0
3/13/2025 21:26	50701	SMEC_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
3/13/2025 21:26	66504	SMAN_T2	0	0	0	0	0	0	-0.73	-0.7	0	0	0	0	0	0
3/13/2025 21:26	65502	MOJO_T2	0	0	0	0	0	0	-1.14	-1.1	0	0	0	0	0	0
3/13/2025 21:26	59201	THOM_T1	22	21	-1	0.57	0.61	0.04	0	0	0	0	0	0	0	0
3/13/2025 21:27	57203	ROSS_T1	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
3/13/2025 21:27	58201	NEWV_T1	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
3/13/2025 21:27	58402	MORO_T1	0	0	0	0	0	0	0.44	0.43	1	1	0	900	900	0
3/13/2025 21:27	55002	NEWP_T1	4	3	-1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
3/13/2025 21:27	58401	MORO_T1	0	0	0	0	0	0	-5.16	-5	4	4	0	2400	2400	0
3/13/2025 21:27	57201	ROSS_T1	2	6	4	0.1	0.1	0	0	0	0	0	0	0	0	0
3/13/2025 21:27	58202	NEWV_T1	0	9	9	0	0.93	0.93	-0.38	-0.44	0	0	0	0	0	0
3/13/2025 21:27	54206	PENN_T2	0	0	0	0	0	0	-0.17	-0.17	0	0	0	0	0	0
3/13/2025 21:27	46901	MNTG_T2	0	0	0	0	0	0	-0.2	-0.24	1	1	0	1200	1200	0
3/13/2025 21:27	55001	NEWP_T1	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
3/13/2025 21:28	54505	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/13/2025 21:28	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
3/13/2025 21:28	54502	ENOL_T2	1	1	0	0.5	0.6	0.1	-2.05	-2.05	1	1	0	600	600	0
3/13/2025 21:28	55002	NEWP_T1	4	3	-1	0.7	0.9	0.2	0	0	0	0	0	0	0	0
3/13/2025 21:28	55001	NEWP_T1	0	0	0	0	0	0	-0.55	-0.54	0	0	0	0	0	0
3/13/2025 21:29	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:29	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:30	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.19	0	0	0	0	0	0
3/13/2025 21:30	52401	GRPA_T2	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
3/13/2025 21:30	52402	GRPA_T2	4	5	1	0.63	0.46	-0.17	0	0	0	0	0	0	0	0
3/13/2025 21:30	52403	GRPA_T2	0	1	1	0	0.1	0.1	-0.76	-0.78	0	0	0	0	0	0
3/13/2025 21:31	10206	ALLE_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/13/2025 21:31	52402	GRPA_T2	4	5	1	0.63	0.46	-0.17	0	0	0	0	0	0	0	0
3/13/2025 21:31	52401	GRPA_T2	1	2	1	0.5	0.15	-0.35	0	0	0	0	0	0	0	0
3/13/2025 21:31	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 21:31	10102	ALLE_T2	1	1	0	6.9	6.8	-0.1	0	0	0	0	0	0	0	0
3/13/2025 21:31	52403	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/13/2025 21:54	20401	ASHF_T2	7	1	-6	0.43	0	-0.43	0.24	0.25	0	0	0	0	0	0
3/13/2025 21:54	20402	ASHF_T2	4	0	-4	1.35	0	-1.35	0	0	0	0	0	0	0	0
3/13/2025 22:02	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
3/13/2025 22:08	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/13/2025 22:12	57401	SPAN_T1	2	2	0	1.05	1.4	0.35	0	0	0	0	0	0	0	0
3/13/2025 22:12	57403	SPAN_T1	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
3/13/2025 22:39	20401	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/13/2025 22:39	20403	ASHF_T2	0	0	0	0	0	0	0.05	0.01	0	0	0	0	0	0
3/13/2025 23:08	20403	ASHF_T2	0	0	0	0	0	0	0.02	0.05	0	0	0	0	0	0
3/13/2025 23:08	20401	ASHF_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/14/2025 0:06	60801	BUCK_T1	4	34	30	0.1	0.22	0.12	0	0	0	0	0	0	0	0
3/14/2025 0:06	60803	BUCK_T1	0	4	4	0	0.13	0.13	-0.59	-0.58	1	1	0	600	600	0
3/14/2025 0:49	63804	HEMP_T1	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
3/14/2025 0:49	63803	HEMP_T1	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
3/14/2025 1:07	59201	THOM_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
3/14/2025 1:07	59202	THOM_T1	0	9	9	0	0.12	0.12	0	0	0	0	0	0	0	0
3/14/2025 2:02	52403	GRPA_T2	0	0	0	0	0	0	-0.75	-0.72	0	0	0	0	0	0
3/14/2025 2:56	50623	CCTY_T2	6	6	0	5.77	5.72	-0.05	0	0	0	0	0	0	0	0
3/14/2025 2:56	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 2:56	50625	CCTY_T2	4	6	2	4.9	3.23	-1.67	0	0	0	0	0	0	0	0
3/14/2025 2:56	50624	CCTY_T2	2	2	0	6.45	6.4	-0.05	0	0	0	0	0	0	0	0
3/14/2025 8:07	15603	NSTR_T2	0	0	0	0	0	0	-0.54	-0.57	0	0	0	0	0	0
3/14/2025 8:12	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 8:14	40504	CRES_T1	0	0	0	0	0	0	-0.49	-0.43	0	0	0	0	0	0
3/14/2025 8:14	46001	BERW_T1	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
3/14/2025 8:21	47802	MOCA_T2	0	0	0	0	0	0	0.45	0.47	0	0	0	0	0	0
3/14/2025 8:23	47104	MARL_T1	0	1	1	0	0	0	-2.2	-2.15	0	0	0	0	0	0
3/14/2025 8:23	47101	MARL_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/14/2025 8:28	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 8:28	10101	ALLE_T3	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
3/14/2025 8:30	53501	EVIL_T2	1	2	1	0.8	0.85	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/14/2025 8:30	45501	DERR_T2	0	0	0	0	0	0	0.33	0.1	2	2	0	1800	1800	0
3/14/2025 8:30	53502	EVIL_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
3/14/2025 8:34	53502	EVIL_T2	1	1	0	0.1	0.7	0.6	0	0	0	0	0	0	0	0
3/14/2025 8:34	53501	EVIL_T2	1	2	1	0.8	0.85	0.05	0	0	0	0	0	0	0	0
3/14/2025 8:35	16004	DORN_T1	0	0	0	0	0	0	-1.22	-1.23	1	1	0	1200	1200	0
3/14/2025 8:35	16005	DORN_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/14/2025 8:40	16005	DORN_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/14/2025 8:40	51402	LYKE_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
3/14/2025 8:40	16004	DORN_T1	0	0	0	0	0	0	-1.23	-0.89	1	1	0	1200	1200	0
3/14/2025 8:46	21203	ECAR_T1	0	0	0	0	0	0	-0.24	-0.28	0	0	0	0	0	0
3/14/2025 8:47	41801	GOCI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/14/2025 8:48	41801	GOCI_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/14/2025 8:53	67002	STHI_T2	0	134	134	0	0.15	0.15	0	0	0	0	0	0	0	0
3/14/2025 8:53	67001	STHI_T2	0	435	435	0	0.22	0.22	0	0	0	0	0	0	0	0
3/14/2025 8:54	67001	STHI_T2	0	435	435	0	0.22	0.22	0	0	0	0	0	0	0	0
3/14/2025 8:54	67002	STHI_T2	0	134	134	0	0.15	0.15	0.55	0.62	0	0	0	0	0	0
3/14/2025 8:55	67001	STHI_T2	0	435	435	0	0.22	0.22	0	0	0	0	0	0	0	0
3/14/2025 8:55	67002	STHI_T2	0	134	134	0	0.15	0.15	0.55	0.62	0	0	0	0	0	0
3/14/2025 8:56	67001	STHI_T2	0	435	435	0	0.22	0.22	0.09	0.12	0	0	0	0	0	0
3/14/2025 8:56	67002	STHI_T2	0	134	134	0	0.15	0.15	0	0	0	0	0	0	0	0
3/14/2025 9:01	41304	FISH_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 9:02	23401	HONE_T2	0	1	1	0	0	0	-0.06	-0.09	0	0	0	0	0	0
3/14/2025 9:09	58302	NOTT_T1	0	0	0	0	0	0	-1.15	-1.14	2	2	0	2100	2100	0
3/14/2025 9:22	55002	NEWP_T1	5	4	-1	0.86	1.05	0.19	-0.23	-0.22	0	0	0	0	0	0
3/14/2025 9:23	60301	TWVA_T2	0	0	0	0	0	0	-1.72	-1.74	2	2	0	1800	1800	0
3/14/2025 9:26	57205	ROSS_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
3/14/2025 9:29	41801	GOCI_T2	1	159	158	0.5	0.36	-0.14	0	0	0	0	0	0	0	0
3/14/2025 9:30	62606	ENGL_T1	58	166	108	0.17	0.21	0.04	0	0	0	0	0	0	0	0
3/14/2025 9:30	62607	ENGL_T1	0	0	0	0	0	0	-1.14	-1.16	1	1	0	300	300	0
3/14/2025 9:31	41801	GOCI_T2	23	176	153	0.18	0.34	0.16	0	0	0	0	0	0	0	0
3/14/2025 9:32	46506	LOHA_T1	4	4	0	2.33	2.58	0.25	0	0	0	0	0	0	0	0
3/14/2025 9:32	62607	ENGL_T1	0	0	0	0	0	0	-1.14	-1.16	1	1	0	300	300	0
3/14/2025 9:32	62606	ENGL_T1	58	166	108	0.17	0.21	0.04	0	0	0	0	0	0	0	0
3/14/2025 9:32	46502	LOHA_T1	0	0	0	0	0	0	-2.77	-2.71	1	1	0	1200	1200	0
3/14/2025 9:33	41801	GOCI_T2	23	176	153	0.18	0.34	0.16	0	0	0	0	0	0	0	0
3/14/2025 9:35	43202	MVIL_T2	82	103	21	0.75	0.7	-0.05	-0.6	-0.63	0	0	0	0	0	0
3/14/2025 9:35	65501	MOJO_T1	0	0	0	0	0	0	-1.02	-1	1	1	0	900	900	0
3/14/2025 9:39	57403	SPAN_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/14/2025 9:39	57401	SPAN_T1	1	2	1	0.1	0.65	0.55	-1.09	-1	1	1	0	600	600	0
3/14/2025 9:41	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 9:42	57403	SPAN_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/14/2025 9:42	57401	SPAN_T1	1	2	1	0.1	0.65	0.55	-1.09	-1	1	1	0	600	600	0
3/14/2025 9:43	51101	CARL_T1	1	1	0	6.3	5.9	-0.4	-1.72	-1.7	1	1	0	600	600	0
3/14/2025 9:44	62605	ENGL_T1	0	0	0	0	0	0	-0.9	-0.9	0	0	0	0	0	0
3/14/2025 9:44	62606	ENGL_T1	58	166	108	0.17	0.21	0.04	0	0	0	0	0	0	0	0
3/14/2025 9:45	10801	CHHI_T1	0	11	11	0	0.2	0.2	-1.26	-1.24	2	2	0	1500	1500	0
3/14/2025 9:46	62605	ENGL_T1	0	0	0	0	0	0	-1.8	-1.8	0	0	0	0	0	0
3/14/2025 9:46	62606	ENGL_T1	64	201	137	0.2	0.24	0.04	0	0	0	0	0	0	0	0
3/14/2025 9:48	53903	HALI_T2	2	2	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/14/2025 9:48	53902	HALI_T2	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
3/14/2025 9:48	53901	HALI_T2	1	1	0	0.3	0.2	-0.1	-1.05	-1.04	0	0	0	0	0	0
3/14/2025 9:49	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 9:56	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/14/2025 9:57	45902	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 9:57	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 9:57	10801	CHHI_T1	0	11	11	0	0.2	0.2	-1.24	-1.45	2	2	0	1500	1500	0
3/14/2025 9:58	62607	ENGL_T1	0	0	0	0	0	0	-1.16	-1.15	1	1	0	300	300	0
3/14/2025 9:58	62606	ENGL_T1	64	201	137	0.2	0.24	0.04	0	0	0	0	0	0	0	0
3/14/2025 9:59	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/14/2025 9:59	62606	ENGL_T1	64	201	137	0.2	0.24	0.04	0	0	0	0	0	0	0	0
3/14/2025 9:59	62605	ENGL_T1	0	0	0	0	0	0	-0.9	-0.89	0	0	0	0	0	0
3/14/2025 10:00	40502	CRES_T2	22	17	-5	0.3	0.34	0.04	0.07	0.05	0	0	0	0	0	0
3/14/2025 10:00	66901	SHIL_T2	0	0	0	0	0	0	-0.46	-0.39	0	0	0	0	0	0
3/14/2025 10:00	63501	HEID_TBK1-2	1	3	2	0.6	0.53	-0.07	-0.22	-0.21	1	1	0	900	900	0
3/14/2025 10:00	40505	CRES_T1	0	1	1	0	0.7	0.7	0.25	0.27	0	0	0	0	0	0
3/14/2025 10:00	21203	ECAR_T1	1	1	0	2.3	0.2	-2.1	-0.27	-0.28	0	0	0	0	0	0
3/14/2025 10:00	10102	ALLE_T2	1	1	0	6.7	6.5	-0.2	0	0	0	0	0	0	0	0
3/14/2025 10:00	42302	MOWR_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 10:00	53903	HALI_T2	2	2	0	0.55	0.8	0.25	0	0	0	0	0	0	0	0
3/14/2025 10:00	53901	HALI_T2	1	1	0	0.2	0.1	-0.1	-1.04	-1.04	0	0	0	0	0	0
3/14/2025 10:00	20601	GRWO_T2	0	0	0	0	0	0	0.37	0.4	0	0	0	0	0	0
3/14/2025 10:00	53902	HALI_T2	1	1	0	4.8	4.9	0.1	0	0	0	0	0	0	0	0
3/14/2025 10:00	10206	ALLE_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/14/2025 10:00	40501	CRES_T2	8	14	6	0.29	0.38	0.09	0	0	0	0	0	0	0	0
3/14/2025 10:00	57203	ROSS_T1	0	0	0	0	0	0	0.43	0.39	0	0	0	0	0	0
3/14/2025 10:00	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 10:00	57201	ROSS_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 10:00	45902	AUBU_T1	0	4	4	0	0	0	0	0	1	1	0	600	600	0
3/14/2025 10:00	42301	MOWR_T2	0	1	1	0	0.3	0.3	-0.6	-0.64	0	0	0	0	0	0
3/14/2025 10:00	67503	WEWI_T2	0	0	0	0	0	0	-0.08	-0.07	0	0	0	0	0	0
3/14/2025 10:00	43304	WATS_T2	0	0	0	0	0	0	0.24	0.17	0	0	0	0	0	0
3/14/2025 10:01	20601	GRWO_T2	0	0	0	0	0	0	0.37	0.4	0	0	0	0	0	0
3/14/2025 10:02	62606	ENGL_T1	166	210	44	0.21	0.24	0.03	0	0	0	0	0	0	0	0
3/14/2025 10:02	62607	ENGL_T1	0	0	0	0	0	0	-1.16	-1.15	1	1	0	300	300	0
3/14/2025 10:03	52202	DEVO_T2	0	0	0	0	0	0	-0.76	-0.73	0	0	0	0	0	0
3/14/2025 10:06	61302	EARL_T1	0	0	0	0	0	0	0.6	0.64	1	1	0	1200	1200	0
3/14/2025 10:07	62607	ENGL_T1	0	0	0	0	0	0	-1.15	-1.16	1	1	0	300	300	0
3/14/2025 10:07	62606	ENGL_T1	166	210	44	0.21	0.24	0.03	0	0	0	0	0	0	0	0
3/14/2025 10:12	10801	CHHI_T1	0	53	53	0	0.25	0.25	-1.45	-1.42	2	2	0	1500	1500	0
3/14/2025 10:12	10705	CATA_T2	0	0	0	0	0	0	-0.96	-0.9	1	1	0	900	900	0
3/14/2025 10:13	57205	ROSS_T1	0	0	0	0	0	0	0.16	0.15	0	0	0	0	0	0
3/14/2025 10:13	10705	CATA_T2	0	0	0	0	0	0	-0.96	-0.9	1	1	0	900	900	0
3/14/2025 10:13	10801	CHHI_T1	0	53	53	0	0.25	0.25	-1.45	-1.42	2	2	0	1500	1500	0
3/14/2025 10:13	57201	ROSS_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 10:14	10705	CATA_T2	0	0	0	0	0	0	-1.92	-1.8	2	2	0	1800	1800	0
3/14/2025 10:15	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/14/2025 10:15	54505	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 10:15	54503	ENOL_T2	0	0	0	0	0	0	-0.44	-0.44	1	1	0	600	600	0
3/14/2025 10:15	17802	GILB_T1	1	2	1	0.4	0.65	0.25	0.17	0.17	0	0	0	0	0	0
3/14/2025 10:15	10705	CATA_T2	0	1	1	0	0.1	0.1	-2.88	-2.7	3	3	0	2700	2700	0
3/14/2025 10:16	10801	CHHI_T1	11	76	65	0.2	0.26	0.06	-1.45	-1.42	2	2	0	1500	1500	0
3/14/2025 10:16	10705	CATA_T2	0	1	1	0	0.1	0.1	-0.96	-0.9	1	1	0	900	900	0
3/14/2025 10:18	46503	LOHA_T1	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
3/14/2025 10:18	46506	LOHA_T1	3	3	0	3.2	4.43	1.23	0	0	0	0	0	0	0	0
3/14/2025 10:18	46504	LOHA_T1	2	2	0	0.35	0.5	0.15	0	0	0	0	0	0	0	0
3/14/2025 10:19	23502	GEOR_T1	0	0	0	0	0	0	-0.28	-0.22	0	0	0	0	0	0
3/14/2025 10:20	55001	NEWP_T1	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
3/14/2025 10:20	55002	NEWP_T1	4	6	2	0.33	0.77	0.44	0	0	0	0	0	0	0	0
3/14/2025 10:21	15204	SFAR_T2	0	1	1	0	4.1	4.1	0	0	0	0	0	0	0	0
3/14/2025 10:21	15203	SFAR_T2	0	5	5	0	0.26	0.26	-1.34	-1.35	0	0	0	0	0	0
3/14/2025 10:22	15203	SFAR_T2	0	5	5	0	0.26	0.26	-1.34	-1.35	0	0	0	0	0	0
3/14/2025 10:22	15204	SFAR_T2	0	1	1	0	4.1	4.1	0	0	0	0	0	0	0	0
3/14/2025 10:24	43802	SWIL_T1	0	0	0	0	0	0	-0.23	-0.25	1	1	0	600	600	0
3/14/2025 10:24	57201	ROSS_T1	0	13	13	0	0.18	0.18	-0.72	-0.74	0	0	0	0	0	0
3/14/2025 10:24	15203	SFAR_T2	0	5	5	0	0.26	0.26	-2.68	-2.7	0	0	0	0	0	0
3/14/2025 10:24	43801	SWIL_T1	4	13	9	1.38	0.51	-0.87	0	0	0	0	0	0	0	0
3/14/2025 10:24	15204	SFAR_T2	0	1	1	0	4.1	4.1	0	0	0	0	0	0	0	0
3/14/2025 10:25	15203	SFAR_T2	0	5	5	0	0.26	0.26	-1.34	-1.35	0	0	0	0	0	0
3/14/2025 10:25	15204	SFAR_T2	0	1	1	0	4.1	4.1	0	0	0	0	0	0	0	0
3/14/2025 10:26	43801	SWIL_T1	4	13	9	1.38	0.51	-0.87	0	0	0	0	0	0	0	0
3/14/2025 10:26	55002	NEWP_T1	4	6	2	0.33	0.77	0.44	0	0	0	0	0	0	0	0
3/14/2025 10:26	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 10:26	55001	NEWP_T1	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
3/14/2025 10:27	15203	SFAR_T2	0	5	5	0	0.26	0.26	0	0	0	0	0	0	0	0
3/14/2025 10:27	43802	SWIL_T1	0	0	0	0	0	0	-0.23	-0.25	1	1	0	600	600	0
3/14/2025 10:27	15204	SFAR_T2	0	1	1	0	4.1	4.1	0	0	0	0	0	0	0	0
3/14/2025 10:27	43801	SWIL_T1	4	13	9	1.38	0.51	-0.87	0	0	0	0	0	0	0	0
3/14/2025 10:27	57201	ROSS_T1	0	13	13	0	0.18	0.18	-0.72	-0.74	0	0	0	0	0	0
3/14/2025 10:28	40501	CRES_T2	13	7	-6	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
3/14/2025 10:28	40502	CRES_T2	17	14	-3	0.34	0.27	-0.07	0.1	0.1	0	0	0	0	0	0
3/14/2025 10:29	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 10:29	40501	CRES_T2	13	7	-6	0.38	0.33	-0.05	0	0	0	0	0	0	0	0
3/14/2025 10:29	40502	CRES_T2	17	14	-3	0.34	0.27	-0.07	0.05	0.05	0	0	0	0	0	0
3/14/2025 10:30	40501	CRES_T2	5	7	2	0.34	0.36	0.02	0	0	0	0	0	0	0	0
3/14/2025 10:30	47203	FAXO_T2	0	0	0	0	0	0	-1.81	-1.8	1	1	0	1200	1200	0
3/14/2025 10:30	40502	CRES_T2	13	19	6	0.22	0.24	0.02	0.05	0.05	0	0	0	0	0	0
3/14/2025 10:31	40502	CRES_T2	13	19	6	0.22	0.24	0.02	0	0	0	0	0	0	0	0
3/14/2025 10:31	40501	CRES_T2	5	7	2	0.34	0.36	0.02	0	0	0	0	0	0	0	0
3/14/2025 10:32	40501	CRES_T2	5	7	2	0.34	0.36	0.02	0	0	0	0	0	0	0	0
3/14/2025 10:32	40502	CRES_T2	13	19	6	0.22	0.24	0.02	0	0	0	0	0	0	0	0
3/14/2025 10:33	63501	HEID_TBK1-2	2	27	25	0.75	0.19	-0.56	-0.6	-0.53	3	3	0	2700	2700	0
3/14/2025 10:34	41001	LAUR_T2	80	86	6	0.54	0.67	0.13	0	0	0	0	0	0	0	0
3/14/2025 10:34	41002	LAUR_T2	47	52	5	0.45	0.59	0.14	0	0	0	0	0	0	0	0
3/14/2025 10:35	15602	NSTR_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/14/2025 10:35	15603	NSTR_T2	1	2	1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/14/2025 10:35	15601	NSTR_T2	3	4	1	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
3/14/2025 10:35	63501	HEID_TBK1-2	2	27	25	0.75	0.19	-0.56	-0.2	-0.18	1	1	0	900	900	0
3/14/2025 10:36	15603	NSTR_T2	1	2	1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/14/2025 10:36	15601	NSTR_T2	3	4	1	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
3/14/2025 10:36	15602	NSTR_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/14/2025 10:38	15602	NSTR_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/14/2025 10:38	15603	NSTR_T2	1	2	1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/14/2025 10:38	15601	NSTR_T2	3	4	1	0.37	0.33	-0.04	0	0	0	0	0	0	0	0
3/14/2025 10:41	15702	TANN_T2	0	1	1	0	0.4	0.4	-0.43	-0.39	0	0	0	0	0	0
3/14/2025 10:41	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/14/2025 10:43	61304	EARL_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
3/14/2025 10:43	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/14/2025 10:43	15702	TANN_T2	0	1	1	0	0.4	0.4	-0.43	-0.39	0	0	0	0	0	0
3/14/2025 10:43	61301	EARL_T1	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
3/14/2025 10:43	61306	EARL_T1	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
3/14/2025 10:44	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/14/2025 10:44	61304	EARL_T1	0	0	0	0	0	0	-0.1	-0.1	0	0	0	0	0	0
3/14/2025 10:44	54504	ENOL_T2	0	0	0	0	0	0	-1.04	-1.02	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/14/2025 10:44	51101	CARL_T1	1	1	0	6	5.8	-0.2	-1.68	-1.69	1	1	0	600	600	0
3/14/2025 10:44	54505	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 10:44	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 10:45	24203	PROV_T4	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/14/2025 10:45	61302	EARL_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 10:45	11203	ELHE_T1	0	0	0	0	0	0	0.9	1.18	0	0	0	0	0	0
3/14/2025 10:45	61304	EARL_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
3/14/2025 10:45	24202	PROV_T4	0	16	16	0	0.11	0.11	-0.79	-0.81	1	1	0	1200	1200	0
3/14/2025 10:45	41301	FISH_T1	3	5	2	1.13	1.3	0.17	-0.36	-0.35	0	0	0	0	0	0
3/14/2025 10:46	41301	FISH_T1	3	5	2	1.13	1.3	0.17	-0.36	-0.35	0	0	0	0	0	0
3/14/2025 10:46	61302	EARL_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 10:46	61304	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 10:47	61302	EARL_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 10:47	47901	HRDG_T1	0	0	0	0	0	0	1.86	1.81	0	0	0	0	0	0
3/14/2025 10:47	61304	EARL_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
3/14/2025 10:49	41301	FISH_T1	3	5	2	1.13	1.3	0.17	-0.36	-0.35	0	0	0	0	0	0
3/14/2025 10:50	40901	JESH_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/14/2025 10:50	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 10:51	47401	PENS_T1	2	4	2	0.3	0.55	0.25	0	0	0	0	0	0	0	0
3/14/2025 10:51	47403	PENS_T1	1	4	3	2.1	0.7	-1.4	0	0	0	0	0	0	0	0
3/14/2025 10:51	47402	PENS_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
3/14/2025 10:52	57201	ROSS_T1	13	29	16	0.18	0.28	0.1	-0.79	-0.78	0	0	0	0	0	0
3/14/2025 10:52	57205	ROSS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/14/2025 10:52	47101	MARL_T1	0	0	0	0	0	0	-1.22	-1.15	0	0	0	0	0	0
3/14/2025 10:54	47102	MARL_T2	3	2	-1	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
3/14/2025 10:54	57201	ROSS_T1	13	29	16	0.18	0.28	0.1	-0.79	-0.78	0	0	0	0	0	0
3/14/2025 10:54	57205	ROSS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/14/2025 10:54	47103	MARL_T2	3	4	1	0.33	0.33	0	-0.49	-0.51	0	0	0	0	0	0
3/14/2025 10:55	57201	ROSS_T1	13	29	16	0.18	0.28	0.1	0	0	0	0	0	0	0	0
3/14/2025 10:55	57205	ROSS_T1	0	1	1	0	0.3	0.3	0.14	0.12	0	0	0	0	0	0
3/14/2025 10:57	57201	ROSS_T1	13	29	16	0.18	0.28	0.1	0	0	0	0	0	0	0	0
3/14/2025 10:57	57205	ROSS_T1	0	1	1	0	0.3	0.3	0.28	0.24	0	0	0	0	0	0
3/14/2025 10:58	46004	BERW_T2	0	1	1	0	0.5	0.5	-0.81	-0.81	0	0	0	0	0	0
3/14/2025 11:04	44701	MUNC_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 11:05	47104	MARL_T1	0	0	0	0	0	0	-2.25	-2.21	0	0	0	0	0	0
3/14/2025 11:05	13303	ORVI_T1	0	0	0	0	0	0	0.95	0.93	0	0	0	0	0	0
3/14/2025 11:05	47101	MARL_T1	1	1	0	4.9	0.2	-4.7	0	0	0	0	0	0	0	0
3/14/2025 11:06	47101	MARL_T1	1	1	0	4.9	0.2	-4.7	0	0	0	0	0	0	0	0
3/14/2025 11:06	47104	MARL_T1	0	0	0	0	0	0	-2.21	-2.24	0	0	0	0	0	0
3/14/2025 11:06	46901	MNTG_T2	0	0	0	0	0	0	-0.62	-0.22	2	2	0	2400	2400	0
3/14/2025 11:06	46903	MNTG_T2	4	5	1	0.35	0.58	0.23	0	0	0	0	0	0	0	0
3/14/2025 11:06	46902	MNTG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 11:07	46903	MNTG_T2	4	5	1	0.35	0.58	0.23	0	0	0	0	0	0	0	0
3/14/2025 11:07	24101	EHAZ_T1	8	20	12	0.44	0.31	-0.13	0	0	0	0	0	0	0	0
3/14/2025 11:07	24104	EHAZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 11:07	24103	EHAZ_T1	0	0	0	0	0	0	-1.3	-1.31	0	0	0	0	0	0
3/14/2025 11:07	46902	MNTG_T2	0	1	1	0	0	0	-0.53	-0.54	1	1	0	600	600	0
3/14/2025 11:07	24105	EHAZ_T1	4	4	0	6.25	6.08	-0.17	0	0	0	0	0	0	0	0
3/14/2025 11:08	24101	EHAZ_T1	8	20	12	0.44	0.31	-0.13	0	0	0	0	0	0	0	0
3/14/2025 11:08	46903	MNTG_T2	4	5	1	0.35	0.58	0.23	-0.6	-0.64	1	1	0	600	600	0
3/14/2025 11:08	24104	EHAZ_T1	0	1	1	0	0.2	0.2	-2.19	-2.21	1	1	0	1200	1200	0
3/14/2025 11:08	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 11:08	55002	NEWP_T1	6	6	0	0.65	0.8	0.15	-0.24	-0.23	0	0	0	0	0	0
3/14/2025 11:08	24105	EHAZ_T1	4	4	0	6.25	6.08	-0.17	0	0	0	0	0	0	0	0
3/14/2025 11:08	46902	MNTG_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 11:09	44701	MUNC_T2	0	1	1	0	0.2	0.2	-1.16	-1.17	0	0	0	0	0	0
3/14/2025 11:10	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 11:10	46005	BERW_T1	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
3/14/2025 11:12	46005	BERW_T1	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
3/14/2025 11:12	46001	BERW_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
3/14/2025 11:17	62606	ENGL_T1	144	289	145	0.19	0.25	0.06	0	0	0	0	0	0	0	0
3/14/2025 11:17	62607	ENGL_T1	0	0	0	0	0	0	-1.16	-1.15	1	1	0	300	300	0
3/14/2025 11:19	50502	MECH_T1	5	5	0	1.34	1.5	0.16	0	0	0	0	0	0	0	0
3/14/2025 11:19	50501	MECH_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 11:19	50504	MECH_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 11:20	46001	BERW_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
3/14/2025 11:20	46005	BERW_T1	1	2	1	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/14/2025 11:25	14802	TREI_T2	7	24	17	0.28	0.3	0.02	0.35	0.34	0	0	0	0	0	0
3/14/2025 11:25	66903	SHIL_T2	0	0	0	0	0	0	-1.19	-1.19	0	0	0	0	0	0
3/14/2025 11:25	14801	TREI_T2	41	95	54	0.19	0.33	0.14	0	0	0	0	0	0	0	0
3/14/2025 11:25	58201	NEWV_T1	1	1	0	1.8	0.6	-1.2	0	0	0	0	0	0	0	0
3/14/2025 11:28	45501	DERR_T2	1	4	3	0.3	0.67	0.37	1.76	1.78	2	2	0	1200	1200	0
3/14/2025 11:28	46201	DANV_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/14/2025 11:28	45502	DERR_T2	146	150	4	0.98	1.13	0.15	0	0	0	0	0	0	0	0
3/14/2025 11:28	46203	DANV_T2	174	180	6	0.81	1.01	0.2	-0.31	-0.34	0	0	0	0	0	0
3/14/2025 11:29	50501	MECH_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 11:29	50502	MECH_T1	5	5	0	1.34	1.5	0.16	0	0	0	0	0	0	0	0
3/14/2025 11:29	50504	MECH_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 11:29	50506	MECH_T1	0	0	0	0	0	0	0.11	0.14	0	0	0	0	0	0
3/14/2025 11:32	63602	LETO_T1	31	0	-31	0.1	0	-0.1	-0.56	-0.55	0	0	0	0	0	0
3/14/2025 11:32	46502	LOHA_T1	0	0	0	0	0	0	-2.66	-2.64	1	1	0	1200	1200	0
3/14/2025 11:32	46506	LOHA_T1	3	5	2	4.4	3.04	-1.36	0	0	0	0	0	0	0	0
3/14/2025 11:32	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 11:32	15204	SFAR_T2	4	4	0	0.7	0.53	-0.17	-0.01	-0.01	0	0	0	0	0	0
3/14/2025 11:32	15203	SFAR_T2	14	46	32	0.34	0.28	-0.06	0	0	0	0	0	0	0	0
3/14/2025 11:32	46503	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 11:32	46504	LOHA_T1	1	2	1	0.6	0.9	0.3	0	0	0	0	0	0	0	0
3/14/2025 11:33	13905	SEID_T1	0	1	1	0	0.1	0.1	-1.06	-1.05	1	1	0	1200	1200	0
3/14/2025 11:33	40901	JESH_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/14/2025 11:33	46201	DANV_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/14/2025 11:33	13902	SEID_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 11:33	40902	JESH_T1	0	2	2	0	0.2	0.2	-0.67	-0.64	0	0	0	0	0	0
3/14/2025 11:33	46203	DANV_T2	179	178	-1	0.91	1	0.09	-0.93	-1.02	0	0	0	0	0	0
3/14/2025 11:35	41301	FISH_T1	5	10	5	1.52	0.94	-0.58	0	0	0	0	0	0	0	0
3/14/2025 11:35	17802	GILB_T1	4	4	0	0.48	0.98	0.5	0.13	0.13	0	0	0	0	0	0
3/14/2025 11:36	15204	SFAR_T2	4	4	0	0.7	0.53	-0.17	-0.01	-0.01	0	0	0	0	0	0
3/14/2025 11:36	15203	SFAR_T2	14	46	32	0.34	0.28	-0.06	0	0	0	0	0	0	0	0
3/14/2025 11:36	41902	REED_T1	6	6	0	0.47	0.55	0.08	1.03	1.01	0	0	0	0	0	0
3/14/2025 11:37	44901	SCOT_T2	452	459	7	0.69	0.65	-0.04	0.51	0.44	0	0	0	0	0	0
3/14/2025 11:37	44902	SCOT_T2	760	760	0	0.8	0.68	-0.12	0	0	0	0	0	0	0	0
3/14/2025 11:37	66902	SHIL_T2	0	0	0	0	0	0	-1.01	-1.01	0	0	0	0	0	0
3/14/2025 11:38	11301	EMMA_T1	0	0	0	0	0	0	0.85	0.82	0	0	0	0	0	0
3/14/2025 11:38	14801	TREI_T2	93	100	7	0.32	0.37	0.05	0.34	0.33	0	0	0	0	0	0
3/14/2025 11:38	14802	TREI_T2	16	31	15	0.25	0.39	0.14	0	0	0	0	0	0	0	0
3/14/2025 11:38	11302	EMMA_T1	12	10	-2	0.18	0.33	0.15	0	0	0	0	0	0	0	0
3/14/2025 11:38	11303	EMMA_T1	2	1	-1	0.35	0.9	0.55	0	0	0	0	0	0	0	0
3/14/2025 11:38	13103	NHAM_T2	0	0	0	0	0	0	-1.73	-1.74	1	1	0	600	600	0
3/14/2025 11:39	13103	NHAM_T2	0	0	0	0	0	0	-1.73	-1.74	1	1	0	600	600	0
3/14/2025 11:39	57403	SPAN_T1	13	23	10	0.22	0.27	0.05	0.08	0.08	0	0	0	0	0	0
3/14/2025 11:39	57402	SPAN_T2	1	2	1	0.1	0.1	0	-0.57	-0.56	0	0	0	0	0	0
3/14/2025 11:39	45501	DERR_T2	2	6	4	0.5	0.43	-0.07	0.89	0.87	1	1	0	600	600	0
3/14/2025 11:39	45502	DERR_T2	146	147	1	0.96	1.14	0.18	0	-1.04	0	0	0	0	0	0
3/14/2025 11:39	57401	SPAN_T1	2	3	1	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
3/14/2025 11:40	42501	ALTA_T2	4	6	2	0.25	0.44	0.19	-0.02	-0.03	1	1	0	600	600	0
3/14/2025 11:40	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/14/2025 11:40	57401	SPAN_T1	2	3	1	0.65	0.53	-0.12	0	0	0	0	0	0	0	0
3/14/2025 11:40	43301	WATS_T2	0	1	1	0	0.2	0.2	0.14	0.15	0	0	0	0	0	0
3/14/2025 11:40	50503	MECH_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 11:40	57402	SPAN_T2	1	2	1	0.1	0.1	0	-0.57	-0.56	0	0	0	0	0	0
3/14/2025 11:40	11302	EMMA_T1	12	10	-2	0.18	0.33	0.15	0	0	0	0	0	0	0	0
3/14/2025 11:40	50504	MECH_T1	2	8	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/14/2025 11:40	50506	MECH_T1	0	1	1	0	0.1	0.1	0.14	0.15	0	0	0	0	0	0
3/14/2025 11:40	42503	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 11:40	11303	EMMA_T1	2	1	-1	0.35	0.9	0.55	0	0	0	0	0	0	0	0
3/14/2025 11:40	50502	MECH_T1	5	5	0	1.5	1.58	0.08	0	0	0	0	0	0	0	0
3/14/2025 11:40	50501	MECH_T1	3	23	20	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/14/2025 11:40	57403	SPAN_T1	13	23	10	0.22	0.27	0.05	0.08	0.08	0	0	0	0	0	0
3/14/2025 11:41	44201	POIN_T1	0	0	0	0	0	0	-2.28	-2.31	1	1	0	1200	1200	0
3/14/2025 11:41	60201	ATGL_T2	0	0	0	0	0	0	-0.11	-0.12	0	0	0	0	0	0
3/14/2025 11:42	44902	SCOT_T2	760	760	0	0.8	0.68	-0.12	-0.97	-0.93	0	0	0	0	0	0
3/14/2025 11:42	15603	NSTR_T2	7	8	1	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
3/14/2025 11:42	44901	SCOT_T2	452	459	7	0.69	0.65	-0.04	0	0	0	0	0	0	0	0
3/14/2025 11:42	11202	ELHE_T2	0	0	0	0	0	0	0.37	0.37	1	1	0	1200	1200	0
3/14/2025 11:42	63602	LETO_T1	31	0	-31	0.1	0	-0.1	-0.55	-0.52	0	0	0	0	0	0
3/14/2025 11:42	10805	CHHI_T2	1	1	0	8.4	8.3	-0.1	-0.45	-0.48	0	0	0	0	0	0
3/14/2025 11:42	15601	NSTR_T2	5	11	6	0.26	0.31	0.05	0	0	0	0	0	0	0	0
3/14/2025 11:42	15602	NSTR_T2	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
3/14/2025 11:42	63601	LETO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 11:43	44802	EDAN_T2	0	0	0	0	0	0	-2.79	-2.67	0	0	0	0	0	0
3/14/2025 11:43	44801	EDAN_T2	3	5	2	0.37	0.58	0.21	0	0	0	0	0	0	0	0
3/14/2025 11:43	61306	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 11:43	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 11:43	10101	ALLE_T3	2	1	-1	4.05	5.7	1.65	0	0	0	0	0	0	0	0
3/14/2025 11:43	10805	CHHI_T2	1	1	0	8.4	8.3	-0.1	-0.45	-0.48	0	0	0	0	0	0
3/14/2025 11:43	61304	EARL_T1	0	35	35	0	0.15	0.15	-0.06	0	0	0	0	0	0	0
3/14/2025 11:43	10103	ALLE_T3	1	1	0	9.7	2.1	-7.6	0	0	0	0	0	0	0	0
3/14/2025 11:44	41601	CLEV_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/14/2025 11:44	42503	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 11:44	41602	CLEV_T1	3	3	0	0.43	0.7	0.27	0	0	0	0	0	0	0	0
3/14/2025 11:44	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/14/2025 11:44	44801	EDAN_T2	3	5	2	0.37	0.58	0.21	0	0	0	0	0	0	0	0
3/14/2025 11:44	42501	ALTA_T2	4	6	2	0.25	0.44	0.19	-0.02	-0.03	1	1	0	600	600	0
3/14/2025 11:44	61304	EARL_T1	0	35	35	0	0.15	0.15	0	0	0	0	0	0	0	0
3/14/2025 11:44	61306	EARL_T1	0	1	1	0	0.1	0.1	0.04	0.05	0	0	0	0	0	0
3/14/2025 11:44	44802	EDAN_T2	0	0	0	0	0	0	-2.79	-2.67	0	0	0	0	0	0
3/14/2025 11:45	62102	ELAN_T1	0	0	0	0	0	0	0.65	0.62	0	0	0	0	0	0
3/14/2025 11:45	42501	ALTA_T2	4	7	3	0.38	0.42	0.04	-0.04	-0.06	2	2	0	1200	1200	0
3/14/2025 11:45	42503	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 11:45	10805	CHHI_T2	1	1	0	8.4	8	-0.4	-0.45	-0.48	0	0	0	0	0	0
3/14/2025 11:45	42504	ALTA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/14/2025 11:45	42701	AUGU_T1	2	5	3	0.4	0.62	0.22	0	0	2	2	0	1800	1800	0
3/14/2025 11:47	44801	EDAN_T2	3	6	3	0.57	0.55	-0.02	-0.44	-0.47	0	0	0	0	0	0
3/14/2025 11:47	40101	HUNT_T2	1	4	3	0.2	0.25	0.05	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/14/2025 11:48	44801	EDAN_T2	3	6	3	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
3/14/2025 11:48	40101	HUNT_T2	1	4	3	0.2	0.25	0.05	-1.74	-1.78	0	0	0	0	0	0
3/14/2025 11:48	44802	EDAN_T2	0	0	0	0	0	0	-0.93	-0.89	0	0	0	0	0	0
3/14/2025 11:48	11202	ELHE_T2	0	0	0	0	0	0	0.37	0.37	1	1	0	1200	1200	0
3/14/2025 11:49	45502	DERR_T2	147	3	-144	1.14	0.7	-0.44	0	0	0	0	0	0	0	0
3/14/2025 11:49	43201	MVIL_T2	2	3	1	0.35	0.27	-0.08	0	0	0	0	0	0	0	0
3/14/2025 11:49	23404	HONE_T1	11	0	-11	0.11	0	-0.11	0	0	0	0	0	0	0	0
3/14/2025 11:49	43202	MVIL_T2	106	171	65	0.57	0.61	0.04	-0.65	-0.65	0	0	0	0	0	0
3/14/2025 11:49	23403	HONE_T1	25	15	-10	0.23	0.25	0.02	-0.7	-0.8	0	0	0	0	0	0
3/14/2025 11:49	45501	DERR_T2	3	8	5	0.67	0.41	-0.26	0.89	0.87	1	1	0	600	600	0
3/14/2025 11:50	51904	COPA_T1	5	5	0	1.12	1.06	-0.06	0	0	0	0	0	0	0	0
3/14/2025 11:50	45501	DERR_T2	3	8	5	0.67	0.41	-0.26	0.89	0.87	1	1	0	600	600	0
3/14/2025 11:50	47101	MARL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/14/2025 11:50	47104	MARL_T1	0	0	0	0	0	0	-2.23	-2.27	0	0	0	0	0	0
3/14/2025 11:50	51906	COPA_T1	0	1	1	0	0	0	-1	-1.02	2	2	0	1500	1500	0
3/14/2025 11:50	45502	DERR_T2	147	3	-144	1.14	0.7	-0.44	0	0	0	0	0	0	0	0
3/14/2025 11:50	40101	HUNT_T2	1	4	3	0.2	0.25	0.05	-1.74	-1.78	0	0	0	0	0	0
3/14/2025 11:51	43202	MVIL_T2	106	171	65	0.57	0.61	0.04	-0.65	-0.64	0	0	0	0	0	0
3/14/2025 11:51	43201	MVIL_T2	2	3	1	0.35	0.27	-0.08	0	0	0	0	0	0	0	0
3/14/2025 11:51	40101	HUNT_T2	1	4	3	0.2	0.25	0.05	-1.78	-1.78	0	0	0	0	0	0
3/14/2025 11:52	21705	SUBU_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
3/14/2025 11:52	21701	SUBU_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
3/14/2025 11:52	15204	SFAR_T2	1	5	4	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/14/2025 11:52	15203	SFAR_T2	18	60	42	0.35	0.31	-0.04	-1.33	-1.36	0	0	0	0	0	0
3/14/2025 11:52	21704	SUBU_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/14/2025 11:52	21703	SUBU_T1	0	0	0	0	0	0	0.44	0.46	0	0	0	0	0	0
3/14/2025 11:53	45501	DERR_T2	3	8	5	0.67	0.41	-0.26	0.87	0.9	1	1	0	600	600	0
3/14/2025 11:53	11303	EMMA_T1	1	1	0	0.5	1.9	1.4	0	0	0	0	0	0	0	0
3/14/2025 11:53	11301	EMMA_T1	0	0	0	0	0	0	-0.82	-0.84	0	0	0	0	0	0
3/14/2025 11:53	45502	DERR_T2	147	3	-144	1.14	0.7	-0.44	0	0	0	0	0	0	0	0
3/14/2025 11:53	11302	EMMA_T1	8	4	-4	0.34	0.35	0.01	0	0	0	0	0	0	0	0
3/14/2025 11:54	21701	SUBU_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
3/14/2025 11:54	57205	ROSS_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/14/2025 11:54	57203	ROSS_T1	0	0	0	0	0	0	0.44	0.5	0	0	0	0	0	0
3/14/2025 11:54	57201	ROSS_T1	31	35	4	0.24	0.26	0.02	0	0	0	0	0	0	0	0
3/14/2025 11:54	21704	SUBU_T1	0	1	1	0	0.3	0.3	-2.46	-2.51	2	2	0	2400	2400	0
3/14/2025 11:54	21705	SUBU_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
3/14/2025 11:55	43801	SWIL_T1	31	85	54	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
3/14/2025 11:55	48303	ORWI_T2	8	13	5	0.31	0.39	0.08	0.47	0.48	0	0	0	0	0	0
3/14/2025 11:55	48302	ORWI_T2	2	3	1	8.8	6.2	-2.6	0	0	0	0	0	0	0	0
3/14/2025 11:55	57201	ROSS_T1	31	35	4	0.24	0.26	0.02	0	0	0	0	0	0	0	0
3/14/2025 11:55	67605	WARW_T1	14	28	14	0.31	0.35	0.04	0	0	0	0	0	0	0	0
3/14/2025 11:55	57205	ROSS_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/14/2025 11:55	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 11:55	65901	SAKR_T2	1	1	0	9.6	9.8	0.2	-1.19	-1.27	1	1	0	900	900	0
3/14/2025 11:55	18001	ZION_T1	3	4	1	6.47	5.08	-1.39	0	0	0	0	0	0	0	0
3/14/2025 11:55	65903	SAKR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 11:55	43802	SWIL_T1	4	6	2	0.15	0.23	0.08	-0.24	-0.26	1	1	0	600	600	0
3/14/2025 11:56	67605	WARW_T1	14	28	14	0.31	0.35	0.04	-0.85	-0.87	0	0	0	0	0	0
3/14/2025 11:56	14802	TREI_T2	23	30	7	0.3	0.38	0.08	0	0	0	0	0	0	0	0
3/14/2025 11:56	67603	WARW_T1	0	0	0	0	0	0	0	-0.04	0	0	0	0	0	0
3/14/2025 11:56	14801	TREI_T2	83	95	12	0.31	0.38	0.07	0.33	0.32	0	0	0	0	0	0
3/14/2025 11:56	27205	YATE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 11:56	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 11:56	27201	YATE_T1	10	10	0	5.73	5.6	-0.13	-2.19	-2.13	0	0	0	0	0	0
3/14/2025 11:56	15201	SFAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 11:56	42701	AUGU_T1	2	5	3	0.4	0.62	0.22	0	0	2	2	0	1800	1800	0
3/14/2025 11:57	57201	ROSS_T1	31	35	4	0.24	0.26	0.02	0	0	0	0	0	0	0	0
3/14/2025 11:57	43802	SWIL_T1	4	6	2	0.15	0.23	0.08	-0.48	-0.52	2	2	0	1200	1200	0
3/14/2025 11:57	43801	SWIL_T1	31	85	54	0.37	0.3	-0.07	0	0	0	0	0	0	0	0
3/14/2025 11:57	21705	SUBU_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
3/14/2025 11:57	57203	ROSS_T1	0	0	0	0	0	0	0.44	0.5	0	0	0	0	0	0
3/14/2025 11:57	21704	SUBU_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/14/2025 11:57	21701	SUBU_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
3/14/2025 11:57	57205	ROSS_T1	1	1	0	0.4	0.8	0.4	0	0	0	0	0	0	0	0
3/14/2025 11:59	23901	EFMO_T2	3	6	3	0.53	0.43	-0.1	-0.33	-0.31	0	0	0	0	0	0
3/14/2025 12:00	65903	SAKR_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 12:00	65901	SAKR_T2	1	1	0	9.8	10	0.2	-1.19	-1.27	1	1	0	900	900	0
3/14/2025 12:00	10805	CHHI_T2	1	6	5	8.3	8	-0.3	-0.48	-0.5	0	0	0	0	0	0
3/14/2025 12:01	47201	FAXO_T2	0	0	0	0	0	0	-2.36	-2.35	1	1	0	1200	1200	0
3/14/2025 12:01	47202	FAXO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 12:02	52001	LING_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
3/14/2025 12:03	23901	EFMO_T2	6	3	-3	0.43	0.5	0.07	-0.33	-0.31	0	0	0	0	0	0
3/14/2025 12:04	46503	LOHA_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 12:04	46505	LOHA_T1	0	0	0	0	0	0	-0.26	-0.32	1	1	0	600	600	0
3/14/2025 12:04	46506	LOHA_T1	3	4	1	5	4.05	-0.95	0	0	0	0	0	0	0	0
3/14/2025 12:04	46504	LOHA_T1	2	2	0	0.9	0.95	0.05	0	0	0	0	0	0	0	0
3/14/2025 12:04	40101	HUNT_T2	1	6	5	0.4	0.28	-0.12	-1.78	-1.78	0	0	0	0	0	0
3/14/2025 12:05	46504	LOHA_T1	2	2	0	0.9	0.95	0.05	0	0	0	0	0	0	0	0
3/14/2025 12:05	46503	LOHA_T1	0	1	1	0	0.2	0.2	-0.62	-0.62	0	0	0	0	0	0
3/14/2025 12:05	46506	LOHA_T1	3	4	1	5	4.05	-0.95	0	0	0	0	0	0	0	0
3/14/2025 12:06	23901	EFMO_T2	6	3	-3	0.43	0.5	0.07	0	0	0	0	0	0	0	0
3/14/2025 12:06	40101	HUNT_T2	1	6	5	0.4	0.28	-0.12	-1.78	-1.77	0	0	0	0	0	0
3/14/2025 12:06	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 12:06	47101	MARL_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/14/2025 12:06	47104	MARL_T1	0	0	0	0	0	0	-0.81	-0.9	0	0	0	0	0	0
3/14/2025 12:07	13901	SEID_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/14/2025 12:07	13905	SEID_T1	1	5	4	0.1	0.5	0.4	0	0	0	0	0	0	0	0
3/14/2025 12:07	47101	MARL_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/14/2025 12:07	13904	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 12:07	47104	MARL_T1	0	0	0	0	0	0	-0.81	-0.9	0	0	0	0	0	0
3/14/2025 12:07	13902	SEID_T1	1	4	3	0.1	0.58	0.48	0	0	0	0	0	0	0	0
3/14/2025 12:08	15204	SFAR_T2	4	5	1	0.53	0.94	0.41	0	0	0	0	0	0	0	0
3/14/2025 12:08	15203	SFAR_T2	45	56	11	0.28	0.32	0.04	-1.36	-1.37	0	0	0	0	0	0
3/14/2025 12:09	15201	SFAR_T1	0	0	0	0	0	0	-0.77	-0.71	2	2	0	1800	1800	0
3/14/2025 12:10	13901	SEID_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/14/2025 12:10	15204	SFAR_T2	4	5	1	0.53	0.94	0.41	0	0	0	0	0	0	0	0
3/14/2025 12:10	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 12:10	15203	SFAR_T2	45	56	11	0.28	0.32	0.04	-1.36	-1.37	0	0	0	0	0	0
3/14/2025 12:10	13905	SEID_T1	1	5	4	0.1	0.5	0.4	0	0	0	0	0	0	0	0
3/14/2025 12:10	13904	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 12:10	16302	ALPA_T2	3	8	5	0.17	0.38	0.21	0.71	0.65	0	0	0	0	0	0
3/14/2025 12:10	16302	ALPA_T2	3	8	5	0.17	0.38	0.21	0.71	0.65	0	0	0	0	0	0
3/14/2025 12:10	16302	ALPA_T2	3	8	5	0.17	0.38	0.21	0.71	0.65	0	0	0	0	0	0
3/14/2025 12:10	16302	ALPA_T2	3	8	5	0.17	0.38	0.21	0.71	0.65	0	0	0	0	0	0
3/14/2025 12:10	13103	NHAM_T2	0	1	1	0	0.2	0.2	-1.73	-1.71	1	1	0	600	600	0
3/14/2025 12:10	13902	SEID_T1	1	4	3	0.1	0.58	0.48	0	0	0	0	0	0	0	0
3/14/2025 12:11	16302	ALPA_T2	3	8	5	0.17	0.38	0.21	0.71	0.65	0	0	0	0	0	0
3/14/2025 12:11	15203	SFAR_T2	45	56	11	0.28	0.32	0.04	0	0	0	0	0	0	0	0
3/14/2025 12:11	67904	WNHO_T1	0	0	0	0	0	0	-2.16	-2.16	2	2	0	2100	2100	0
3/14/2025 12:11	54201	PENN_T1	9	10	1	0.28	0.48	0.2	0	0	0	0	0	0	0	0
3/14/2025 12:11	46002	BERW_T2	1	4	3	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/14/2025 12:11	46004	BERW_T2	1	4	3	1.2	0.83	-0.37	0	0	0	0	0	0	0	0
3/14/2025 12:11	54203	PENN_T1	18	18	0	0.97	1.08	0.11	-0.08	-0.08	0	0	0	0	0	0
3/14/2025 12:11	15204	SFAR_T2	4	5	1	0.53	0.94	0.41	-0.01	-0.02	0	0	0	0	0	0
3/14/2025 12:12	15203	SFAR_T2	45	56	11	0.28	0.32	0.04	-1.36	-1.37	0	0	0	0	0	0
3/14/2025 12:12	67502	WEWI_T2	0	107	107	0	0.21	0.21	0	0	0	0	0	0	0	0
3/14/2025 12:12	46004	BERW_T2	1	4	3	1.2	0.83	-0.37	-0.83	-0.83	0	0	0	0	0	0
3/14/2025 12:12	52102	MEIS_T1	2	3	1	0.95	0.53	-0.42	0	0	0	0	0	0	0	0
3/14/2025 12:12	15204	SFAR_T2	4	5	1	0.53	0.94	0.41	0	0	0	0	0	0	0	0
3/14/2025 12:12	46002	BERW_T2	1	4	3	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/14/2025 12:12	52101	MEIS_T1	2	5	3	0.65	0.8	0.15	0	0	0	0	0	0	0	0
3/14/2025 12:13	15203	SFAR_T2	45	56	11	0.28	0.32	0.04	0	0	0	0	0	0	0	0
3/14/2025 12:13	54201	PENN_T1	9	10	1	0.28	0.48	0.2	0	0	0	0	0	0	0	0
3/14/2025 12:13	15204	SFAR_T2	4	5	1	0.53	0.94	0.41	-0.01	-0.02	0	0	0	0	0	0
3/14/2025 12:13	46002	BERW_T2	1	4	3	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/14/2025 12:13	46004	BERW_T2	1	4	3	1.2	0.83	-0.37	-0.83	-0.83	0	0	0	0	0	0
3/14/2025 12:13	54203	PENN_T1	18	18	0	0.97	1.08	0.11	-0.08	-0.08	0	0	0	0	0	0
3/14/2025 12:14	15603	NSTR_T2	6	6	0	0.43	0.37	-0.06	-0.64	-0.63	0	0	0	0	0	0
3/14/2025 12:14	46002	BERW_T2	0	0	0	0	0	0	-0.72	-0.79	1	1	0	900	900	0
3/14/2025 12:14	60404	DILL_T2	1	2	1	5.8	8.3	2.5	-0.57	-0.35	1	1	0	1200	1200	0
3/14/2025 12:14	15602	NSTR_T2	1	1	0	1.4	1.2	-0.2	0	0	0	0	0	0	0	0
3/14/2025 12:14	61701	ELIZ_T1	1	1	0	5.1	5.4	0.3	0.01	0.09	0	0	0	0	0	0
3/14/2025 12:14	16302	ALPA_T2	3	8	5	0.17	0.38	0.21	0.71	0.65	0	0	0	0	0	0
3/14/2025 12:14	15601	NSTR_T2	11	5	-6	0.31	0.62	0.31	0	0	0	0	0	0	0	0
3/14/2025 12:15	52101	MEIS_T1	3	6	3	0.77	0.68	-0.09	0	0	0	0	0	0	0	0
3/14/2025 12:15	52102	MEIS_T1	2	3	1	0.6	0.5	-0.1	0	0	1	1	0	450	450	0
3/14/2025 12:16	54201	PENN_T1	10	10	0	0.32	0.59	0.27	0.86	0.87	0	0	0	0	0	0
3/14/2025 12:16	54203	PENN_T1	18	18	0	1.02	1.1	0.08	0	0	0	0	0	0	0	0
3/14/2025 12:16	40903	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 12:16	40101	HUNT_T2	3	7	4	0.2	0.27	0.07	-1.78	-1.77	0	0	0	0	0	0
3/14/2025 12:16	40902	JESH_T1	2	3	1	0.2	0.43	0.23	-0.57	-0.67	0	0	0	0	0	0
3/14/2025 12:16	40901	JESH_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/14/2025 12:16	21403	EXET_T2	1	1	0	0.1	0.5	0.4	-1.28	-1.29	0	0	0	0	0	0
3/14/2025 12:16	60404	DILL_T2	0	1	1	0	0	0	-0.57	-0.35	1	1	0	1200	1200	0
3/14/2025 12:17	54502	ENOL_T2	1	1	0	0.9	1	0.1	-2.12	-2.08	1	1	0	600	600	0
3/14/2025 12:17	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/14/2025 12:19	60404	DILL_T2	0	1	1	0	0	0	-0.57	-0.35	1	1	0	1200	1200	0
3/14/2025 12:19	17401	FOHI_T1	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
3/14/2025 12:21	40902	JESH_T1	2	3	1	0.2	0.43	0.23	-0.67	-0.69	0	0	0	0	0	0
3/14/2025 12:21	40903	JESH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 12:21	40901	JESH_T1	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/14/2025 12:22	58202	NEWV_T1	0	5	5	0	0.22	0.22	0.22	0.17	0	0	0	0	0	0
3/14/2025 12:22	11303	EMMA_T1	1	4	3	1.9	0.83	-1.07	0	0	0	0	0	0	0	0
3/14/2025 12:22	47403	PENS_T1	10	14	4	0.95	0.72	-0.23	0	0	0	0	0	0	0	0
3/14/2025 12:22	55002	NEWP_T1	9	11	2	1.08	0.95	-0.13	0	0	0	0	0	0	0	0
3/14/2025 12:22	44801	EDAN_T2	5	8	3	0.5	0.55	0.05	-0.46	-0.47	0	0	0	0	0	0
3/14/2025 12:22	44802	EDAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 12:22	47402	PENS_T1	3	4	1	0.57	0.65	0.08	0	0	0	0	0	0	0	0
3/14/2025 12:22	11302	EMMA_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/14/2025 12:22	55001	NEWP_T1	6	1	-5	0.48	0.7	0.22	-0.8	-0.82	0	0	0	0	0	0
3/14/2025 12:22	47401	PENS_T1	5	5	0	0.92	1.26	0.34	0.75	0.75	0	0	0	0	0	0
3/14/2025 12:23	55001	NEWP_T1	6	1	-5	0.48	0.7	0.22	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/14/2025 12:23	65903	SAKR_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/14/2025 12:23	65901	SAKR_T2	1	1	0	9.6	10	0.4	-1.32	-1.25	1	1	0	900	900	0
3/14/2025 12:23	55002	NEWP_T1	9	11	2	1.08	0.95	-0.13	-0.72	-0.69	0	0	0	0	0	0
3/14/2025 12:25	58202	NEWV_T1	0	5	5	0	0.22	0.22	0.22	0.17	0	0	0	0	0	0
3/14/2025 12:25	55002	NEWP_T1	9	11	2	1.08	0.95	-0.13	-0.24	-0.23	0	0	0	0	0	0
3/14/2025 12:25	55001	NEWP_T1	6	1	-5	0.48	0.7	0.22	-0.4	-0.41	0	0	0	0	0	0
3/14/2025 12:25	54601	SUMM_T2	4	7	3	0.38	0.41	0.03	0	0	0	0	0	0	0	0
3/14/2025 12:25	54602	SUMM_T2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 12:26	11302	EMMA_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/14/2025 12:26	11303	EMMA_T1	1	4	3	1.9	0.83	-1.07	0	0	0	0	0	0	0	0
3/14/2025 12:27	27201	YATE_T1	10	10	0	5.7	5.51	-0.19	-2.19	-2.2	0	0	0	0	0	0
3/14/2025 12:27	27205	YATE_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/14/2025 12:28	55002	NEWP_T1	9	11	2	1.08	0.95	-0.13	-0.24	-0.23	0	0	0	0	0	0
3/14/2025 12:28	55001	NEWP_T1	6	1	-5	0.48	0.7	0.22	0	0	0	0	0	0	0	0
3/14/2025 12:30	63501	HEID_TBK1-2	5	6	1	0.32	0.38	0.06	0.63	0.61	0	0	0	0	0	0
3/14/2025 12:31	17804	GILB_T2	13	14	1	0.5	0.49	-0.01	0	0	0	0	0	0	0	0
3/14/2025 12:31	17803	GILB_T2	4	18	14	0.15	0.32	0.17	0	0	0	0	0	0	0	0
3/14/2025 12:31	17805	GILB_T2	5	6	1	0.48	0.6	0.12	0	0	0	0	0	0	0	0
3/14/2025 12:32	40101	HUNT_T2	6	7	1	0.28	0.2	-0.08	-1.77	-1.75	0	0	0	0	0	0
3/14/2025 12:35	63501	HEID_TBK1-2	5	6	1	0.32	0.38	0.06	1.26	1.22	0	0	0	0	0	0
3/14/2025 12:36	46302	ROHR_T1	181	165	-16	0.48	0.29	-0.19	0	0	0	0	0	0	0	0
3/14/2025 12:36	46301	ROHR_T1	289	264	-25	0.53	0.44	-0.09	0.4	0.44	0	0	0	0	0	0
3/14/2025 12:37	66502	SMAN_T2	0	0	0	0	0	0	0.13	0.22	0	0	0	0	0	0
3/14/2025 12:37	66505	SMAN_T2	2	3	1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/14/2025 12:37	46301	ROHR_T1	289	264	-25	0.53	0.44	-0.09	0.2	0.22	0	0	0	0	0	0
3/14/2025 12:37	47104	MARL_T1	0	0	0	0	0	0	-0.87	-0.91	0	0	0	0	0	0
3/14/2025 12:37	46302	ROHR_T1	181	165	-16	0.48	0.29	-0.19	0.15	0.14	0	0	0	0	0	0
3/14/2025 12:37	50701	SMEC_T1	0	14	14	0	0.14	0.14	0	0	0	0	0	0	0	0
3/14/2025 12:38	66504	SMAN_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
3/14/2025 12:38	66505	SMAN_T2	2	3	1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/14/2025 12:39	11303	EMMA_T1	4	6	2	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
3/14/2025 12:39	11302	EMMA_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/14/2025 12:39	66505	SMAN_T2	2	3	1	0.6	0.7	0.1	-0.21	-0.2	1	1	0	900	900	0
3/14/2025 12:39	66502	SMAN_T2	0	0	0	0	0	0	0.13	0.22	0	0	0	0	0	0
3/14/2025 12:39	50701	SMEC_T1	0	14	14	0	0.14	0.14	0.6	0.55	0	0	0	0	0	0
3/14/2025 12:39	66503	SMAN_T2	0	0	0	0	0	0	0.27	0.3	0	0	0	0	0	0
3/14/2025 12:39	66504	SMAN_T2	0	0	0	0	0	0	-1.14	-1.19	0	0	0	0	0	0
3/14/2025 12:40	66504	SMAN_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
3/14/2025 12:40	66505	SMAN_T2	2	3	1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/14/2025 12:40	66502	SMAN_T2	0	0	0	0	0	0	0.27	0.45	0	0	0	0	0	0
3/14/2025 12:41	66505	SMAN_T2	2	3	1	0.6	0.7	0.1	-0.21	-0.2	1	1	0	900	900	0
3/14/2025 12:41	66502	SMAN_T2	0	0	0	0	0	0	0.13	0.22	0	0	0	0	0	0
3/14/2025 12:41	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 12:41	46301	ROHR_T1	289	264	-25	0.53	0.44	-0.09	0	0	0	0	0	0	0	0
3/14/2025 12:41	46302	ROHR_T1	181	165	-16	0.48	0.29	-0.19	0.15	0.14	0	0	0	0	0	0
3/14/2025 12:42	50701	SMEC_T1	0	14	14	0	0.14	0.14	0.3	0.27	0	0	0	0	0	0
3/14/2025 12:42	41602	CLEV_T1	5	4	-1	0.64	0.6	-0.04	0	0	0	0	0	0	0	0
3/14/2025 12:42	66502	SMAN_T2	0	0	0	0	0	0	0.27	0.45	0	0	0	0	0	0
3/14/2025 12:42	66504	SMAN_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
3/14/2025 12:42	66505	SMAN_T2	2	3	1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/14/2025 12:42	14801	TREI_T2	3	102	99	0.87	0.37	-0.5	0	0	0	0	0	0	0	0
3/14/2025 12:42	14802	TREI_T2	0	27	27	0	0.27	0.27	0.3	0.32	0	0	0	0	0	0
3/14/2025 12:42	41601	CLEV_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/14/2025 12:43	50701	SMEC_T1	0	14	14	0	0.14	0.14	0.3	0.27	0	0	0	0	0	0
3/14/2025 12:43	66502	SMAN_T2	0	0	0	0	0	0	0.13	0.22	0	0	0	0	0	0
3/14/2025 12:43	66505	SMAN_T2	2	3	1	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/14/2025 12:43	14802	TREI_T2	0	27	27	0	0.27	0.27	0.3	0.32	0	0	0	0	0	0
3/14/2025 12:43	14801	TREI_T2	3	102	99	0.87	0.37	-0.5	0	0	0	0	0	0	0	0
3/14/2025 12:43	41601	CLEV_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/14/2025 12:43	41602	CLEV_T1	5	4	-1	0.64	0.6	-0.04	0	0	0	0	0	0	0	0
3/14/2025 12:44	41601	CLEV_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/14/2025 12:44	41602	CLEV_T1	5	4	-1	0.64	0.6	-0.04	0	0	0	0	0	0	0	0
3/14/2025 12:45	20601	GRWO_T2	1	3	2	1	0.7	-0.3	0	0	0	0	0	0	0	0
3/14/2025 12:45	14802	TREI_T2	22	27	5	0.27	0.3	0.03	0.3	0.32	0	0	0	0	0	0
3/14/2025 12:45	14801	TREI_T2	79	103	24	0.3	0.38	0.08	0	0	0	0	0	0	0	0
3/14/2025 12:45	20603	GRWO_T2	1	12	11	0.6	0.11	-0.49	0.37	0.42	0	0	0	0	0	0
3/14/2025 12:46	20601	GRWO_T2	1	3	2	1	0.7	-0.3	0.39	0.38	0	0	0	0	0	0
3/14/2025 12:46	20603	GRWO_T2	1	12	11	0.6	0.11	-0.49	0	0	0	0	0	0	0	0
3/14/2025 12:47	41601	CLEV_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/14/2025 12:47	17805	GILB_T2	5	6	1	0.44	0.62	0.18	-0.12	-0.15	0	0	0	0	0	0
3/14/2025 12:47	66504	SMAN_T2	0	0	0	0	0	0	-0.57	-0.6	0	0	0	0	0	0
3/14/2025 12:47	17803	GILB_T2	8	22	14	0.24	0.31	0.07	0	0	0	0	0	0	0	0
3/14/2025 12:47	17804	GILB_T2	8	14	6	0.63	0.49	-0.14	0	0	0	0	0	0	0	0
3/14/2025 12:47	66505	SMAN_T2	2	3	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/14/2025 12:47	41602	CLEV_T1	4	3	-1	0.6	0.6	0	0	0	0	0	0	0	0	0
3/14/2025 12:48	24104	EHAZ_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/14/2025 12:48	20603	GRWO_T2	1	12	11	0.6	0.11	-0.49	0	0	0	0	0	0	0	0
3/14/2025 12:48	24103	EHAZ_T1	0	0	0	0	0	0	-1.29	-1.28	0	0	0	0	0	0
3/14/2025 12:48	17803	GILB_T2	8	22	14	0.24	0.31	0.07	0	0	0	0	0	0	0	0
3/14/2025 12:48	24101	EHAZ_T1	2	14	12	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
3/14/2025 12:48	24105	EHAZ_T1	4	4	0	7.03	6.4	-0.63	0	0	0	0	0	0	0	0
3/14/2025 12:48	17804	GILB_T2	8	14	6	0.63	0.49	-0.14	0	0	0	0	0	0	0	0
3/14/2025 12:48	17805	GILB_T2	5	6	1	0.44	0.62	0.18	-0.06	-0.08	0	0	0	0	0	0
3/14/2025 12:48	20601	GRWO_T2	1	3	2	1	0.7	-0.3	0.39	0.38	0	0	0	0	0	0
3/14/2025 12:48	47104	MARL_T1	0	0	0	0	0	0	-0.87	-0.91	0	0	0	0	0	0
3/14/2025 12:49	16402	MOPO_T1	2	3	1	0.4	0.7	0.3	0.05	-0.12	0	0	0	0	0	0
3/14/2025 12:49	16401	MOPO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/14/2025 12:50	60404	DILL_T2	0	0	0	0	0	0	-0.38	-0.34	1	1	0	1200	1200	0
3/14/2025 12:53	60301	TWVA_T2	0	0	0	0	0	0	-1.79	-1.82	2	2	0	1800	1800	0
3/14/2025 12:54	16401	MOPO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/14/2025 12:54	16402	MOPO_T1	2	3	1	0.4	0.7	0.3	-0.12	-0.08	0	0	0	0	0	0
3/14/2025 12:54	54601	SUMM_T2	6	6	0	0.45	0.78	0.33	-1.87	-1.88	2	2	0	2100	2100	0
3/14/2025 12:55	57203	ROSS_T1	3	7	4	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/14/2025 12:55	57205	ROSS_T1	4	4	0	0.35	0.48	0.13	0	0	0	0	0	0	0	0
3/14/2025 12:55	57201	ROSS_T1	60	106	46	0.33	0.24	-0.09	0	0	0	0	0	0	0	0
3/14/2025 12:57	60201	ATGL_T2	6	14	8	0.13	0.18	0.05	0	0	0	0	0	0	0	0
3/14/2025 12:57	14604	SWHI_T1	0	0	0	0	0	0	-0.03	-0.03	1	1	0	900	900	0
3/14/2025 12:57	14602	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 12:57	14601	SWHI_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/14/2025 12:57	14603	SWHI_T1	6	8	2	0.45	0.5	0.05	0	0	0	0	0	0	0	0
3/14/2025 12:58	15703	TANN_T2	1	1	0	5.4	5.2	-0.2	0	0	0	0	0	0	0	0
3/14/2025 12:58	15702	TANN_T2	5	6	1	0.32	0.53	0.21	-0.44	-0.47	0	0	0	0	0	0
3/14/2025 12:59	52102	MEIS_T1	3	1	-2	0.43	0.5	0.07	0	0	1	1	0	450	450	0
3/14/2025 12:59	52101	MEIS_T1	6	2	-4	0.6	1.1	0.5	0	0	0	0	0	0	0	0
3/14/2025 13:00	60201	ATGL_T2	13	33	20	0.14	0.19	0.05	-0.12	-0.1	0	0	0	0	0	0
3/14/2025 13:01	10903	COOP_T2	3	4	1	0.7	0.75	0.05	0	0	0	0	0	0	0	0
3/14/2025 13:01	10901	COOP_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/14/2025 13:02	24204	PROV_T3	2	4	2	2.9	1.5	-1.4	0	0	0	0	0	0	0	0
3/14/2025 13:02	24205	PROV_T3	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/14/2025 13:02	24201	PROV_T3	3	3	0	5.9	5.8	-0.1	-0.1	-0.11	0	0	0	0	0	0
3/14/2025 13:02	10703	CATA_T2	1	1	0	0.6	1.2	0.6	0	0	0	0	0	0	0	0
3/14/2025 13:02	10707	CATA_T2	1	2	1	0.7	0.65	-0.05	0.4	0.39	0	0	0	0	0	0
3/14/2025 13:02	10701	CATA_T2	2	5	3	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
3/14/2025 13:02	10702	CATA_T2	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/14/2025 13:02	10705	CATA_T2	2	1	-1	0.2	1.2	1	0	0	0	0	0	0	0	0
3/14/2025 13:03	42901	MIDD_T2	11	12	1	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
3/14/2025 13:03	42902	MIDD_T2	58	54	-4	0.28	0.29	0.01	-0.39	-0.34	0	0	0	0	0	0
3/14/2025 13:03	42903	MIDD_T2	5	4	-1	1.08	1.23	0.15	0	0	0	0	0	0	0	0
3/14/2025 13:04	42903	MIDD_T2	5	4	-1	1.08	1.23	0.15	0	0	0	0	0	0	0	0
3/14/2025 13:04	42901	MIDD_T2	11	12	1	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
3/14/2025 13:04	42902	MIDD_T2	58	54	-4	0.28	0.29	0.01	-1.16	-1.02	0	0	0	0	0	0
3/14/2025 13:05	42902	MIDD_T2	58	54	-4	0.28	0.29	0.01	0	0	0	0	0	0	0	0
3/14/2025 13:05	58401	MORO_T1	2	5	3	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
3/14/2025 13:05	42903	MIDD_T2	5	4	-1	1.08	1.23	0.15	-0.18	-0.08	0	0	0	0	0	0
3/14/2025 13:05	42901	MIDD_T2	11	12	1	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
3/14/2025 13:06	42902	MIDD_T2	58	54	-4	0.28	0.29	0.01	-1.02	-0.82	0	0	0	0	0	0
3/14/2025 13:06	42903	MIDD_T2	5	4	-1	1.08	1.23	0.15	0	0	0	0	0	0	0	0
3/14/2025 13:06	42901	MIDD_T2	11	12	1	0.55	0.43	-0.12	0	0	0	0	0	0	0	0
3/14/2025 13:07	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 13:08	58402	MORO_T1	0	0	0	0	0	0	-0.09	-0.04	2	2	0	1500	1500	0
3/14/2025 13:08	58401	MORO_T1	2	5	3	0.35	0.28	-0.07	-2.12	-2.18	2	2	0	1200	1200	0
3/14/2025 13:09	67901	WNHO_T2	0	0	0	0	0	0	0.52	0.7	1	1	0	900	900	0
3/14/2025 13:09	58201	NEWV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/14/2025 13:09	58401	MORO_T1	2	5	3	0.35	0.28	-0.07	-2.12	-2.18	2	2	0	1200	1200	0
3/14/2025 13:09	58202	NEWV_T1	6	10	4	0.34	0.45	0.11	0.28	0.32	0	0	0	0	0	0
3/14/2025 13:10	53901	HALI_T2	12	14	2	0.69	0.8	0.11	0	0	0	0	0	0	0	0
3/14/2025 13:10	53901	HALI_T2	2	4	2	0.4	0.5	0.1	-1.08	-1.07	0	0	0	0	0	0
3/14/2025 13:10	53902	HALI_T2	2	2	0	0.35	1.1	0.75	0	0	0	0	0	0	0	0
3/14/2025 13:10	58401	MORO_T1	2	5	3	0.35	0.28	-0.07	-1.06	-1.09	1	1	0	600	600	0
3/14/2025 13:12	67904	WNHO_T1	0	0	0	0	0	0	-2.16	-2.17	2	2	0	2100	2100	0
3/14/2025 13:13	16103	BING_T2	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
3/14/2025 13:13	44801	EDAN_T2	9	7	-2	0.59	0.57	-0.02	-0.47	-0.42	0	0	0	0	0	0
3/14/2025 13:13	16102	BING_T2	6	8	2	0.72	0.34	-0.38	0.03	0.07	0	0	0	0	0	0
3/14/2025 13:13	16101	BING_T2	2	2	0	0.65	0.75	0.1	0.27	0.27	0	0	0	0	0	0
3/14/2025 13:14	53903	HALI_T2	12	14	2	0.69	0.8	0.11	0	0	0	0	0	0	0	0
3/14/2025 13:14	54502	ENOL_T2	1	1	0	1	1.3	0.3	-2.12	-2.12	1	1	0	600	600	0
3/14/2025 13:14	53902	HALI_T2	2	2	0	0.35	1.1	0.75	0	0	0	0	0	0	0	0
3/14/2025 13:14	62602	ENGL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/14/2025 13:14	16102	BING_T2	6	8	2	0.72	0.34	-0.38	0	0	0	0	0	0	0	0
3/14/2025 13:14	62604	ENGL_T1	0	0	0	0	0	0	0.2	0.22	1	1	0	600	600	0
3/14/2025 13:14	16103	BING_T2	1	1	0	1.3	1.3	0	-0.54	-0.59	1	1	0	900	900	0
3/14/2025 13:14	53901	HALI_T2	2	4	2	0.4	0.5	0.1	-1.08	-1.07	0	0	0	0	0	0
3/14/2025 13:14	16101	BING_T2	2	2	0	0.65	0.75	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:14	41204	KENM_T2	1	1	0	0.8	0.8	0	-0.03	-0.04	0	0	0	0	0	0
3/14/2025 13:14	54505	ENOL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:14	62607	ENGL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 13:14	41202	KENM_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:14	28102	TWLA_T2	3	4	1	0.23	0.25	0.02	0.17	0.17	0	0	0	0	0	0
3/14/2025 13:15	54505	ENOL_T2	1	1	0	1	1	0	-1.31	-1.31	1	1	0	600	600	0
3/14/2025 13:15	54502	ENOL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:16	62105	ELAN_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
3/14/2025 13:16	62106	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:16	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/14/2025 13:16	62101	ELAN_T1	0	1	1	0	0.1	0.1	2.54	2.84	0	0	0	0	0	0
3/14/2025 13:17	44801	EDAN_T2	7	9	2	0.47	0.56	0.09	-0.47	-0.42	0	0	0	0	0	0
3/14/2025 13:17	62105	ELAN_T1	0	3	3	0	0.33	0.33	0.36	0.37	0	0	0	0	0	0
3/14/2025 13:17	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:17	62106	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:17	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:18	54505	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/14/2025 13:18	62101	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:18	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:18	62106	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:18	54502	ENOL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:18	62105	ELAN_T1	0	3	3	0	0.33	0.33	0.72	0.74	0	0	0	0	0	0
3/14/2025 13:18	54506	ENOL_T2	0	0	0	0	0	0	-0.06	-0.07	0	1	1	0	600	600
3/14/2025 13:19	43202	MVIL_T2	138	152	14	0.57	0.81	0.24	-0.67	-0.67	0	0	0	0	0	0
3/14/2025 13:19	43201	MVIL_T2	3	5	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/14/2025 13:19	63602	LETO_T1	4	39	35	0.13	0.17	0.04	0	0	0	0	0	0	0	0
3/14/2025 13:19	63601	LETO_T1	4	5	1	0.35	0.38	0.03	0.74	0.83	1	1	0	900	900	0
3/14/2025 13:19	54505	ENOL_T2	1	1	0	1	1	0	-1.31	-1.31	1	1	0	600	600	0
3/14/2025 13:19	54502	ENOL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:20	58401	MORO_T1	3	5	2	0.27	0.24	-0.03	-1.06	-1.09	1	1	0	600	600	0
3/14/2025 13:21	43202	MVIL_T2	138	152	14	0.57	0.81	0.24	-0.67	-0.7	0	0	0	0	0	0
3/14/2025 13:21	43201	MVIL_T2	3	5	2	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/14/2025 13:21	63602	LETO_T1	4	39	35	0.13	0.17	0.04	0	0	0	0	0	0	0	0
3/14/2025 13:21	63601	LETO_T1	4	5	1	0.35	0.38	0.03	0.83	0.93	1	1	0	900	900	0
3/14/2025 13:23	52502	PROG_T2	0	0	0	0	0	0	-0.63	-0.64	1	1	0	900	900	0
3/14/2025 13:24	57201	ROSS_T1	97	121	24	0.24	0.28	0.04	0	0	0	0	0	0	0	0
3/14/2025 13:24	57203	ROSS_T1	7	119	112	0.16	0.11	-0.05	0.4	0.42	0	0	0	0	0	0
3/14/2025 13:24	57205	ROSS_T1	4	16	12	0.45	0.53	0.08	0	0	0	0	0	0	0	0
3/14/2025 13:25	57203	ROSS_T1	7	119	112	0.16	0.11	-0.05	0.4	0.42	0	0	0	0	0	0
3/14/2025 13:25	57201	ROSS_T1	97	121	24	0.24	0.28	0.04	0	0	0	0	0	0	0	0
3/14/2025 13:25	57205	ROSS_T1	4	16	12	0.45	0.53	0.08	0	0	0	0	0	0	0	0
3/14/2025 13:26	15204	SFAR_T2	6	11	5	0.87	0.56	-0.31	0	0	0	0	0	0	0	0
3/14/2025 13:26	54602	SUMM_T2	0	0	0	0	0	0	-2.46	-2.47	1	1	0	600	600	0
3/14/2025 13:26	57205	ROSS_T1	4	16	12	0.45	0.53	0.08	0	0	0	0	0	0	0	0
3/14/2025 13:26	54601	SUMM_T2	6	6	0	0.78	0.88	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:26	57203	ROSS_T1	7	119	112	0.16	0.11	-0.05	0.4	0.42	0	0	0	0	0	0
3/14/2025 13:26	57201	ROSS_T1	97	121	24	0.24	0.28	0.04	0	0	0	0	0	0	0	0
3/14/2025 13:26	15203	SFAR_T2	46	126	80	0.32	0.32	0	-1.35	-1.32	0	0	0	0	0	0
3/14/2025 13:27	54602	SUMM_T2	0	0	0	0	0	0	-2.46	-2.47	1	1	0	600	600	0
3/14/2025 13:27	15204	SFAR_T2	6	11	5	0.87	0.56	-0.31	0	0	0	0	0	0	0	0
3/14/2025 13:27	15203	SFAR_T2	46	126	80	0.32	0.32	0	-1.35	-1.32	0	0	0	0	0	0
3/14/2025 13:27	54601	SUMM_T2	6	6	0	0.78	0.88	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:28	57203	ROSS_T1	7	119	112	0.16	0.11	-0.05	0.4	0.42	0	0	0	0	0	0
3/14/2025 13:28	43402	BENT_T1	103	110	7	0.78	1.19	0.41	-0.79	-0.77	1	1	0	900	900	0
3/14/2025 13:28	57201	ROSS_T1	97	121	24	0.24	0.28	0.04	0	0	0	0	0	0	0	0
3/14/2025 13:28	57205	ROSS_T1	4	16	12	0.45	0.53	0.08	0	0	0	0	0	0	0	0
3/14/2025 13:28	46001	BERW_T1	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
3/14/2025 13:28	46005	BERW_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/14/2025 13:29	15203	SFAR_T2	46	126	80	0.32	0.32	0	-1.35	-1.32	0	0	0	0	0	0
3/14/2025 13:29	15203	SFAR_T2	46	126	80	0.32	0.32	0	-1.35	-1.32	0	0	0	0	0	0
3/14/2025 13:29	15203	SFAR_T2	46	126	80	0.32	0.32	0	-1.35	-1.32	0	0	0	0	0	0
3/14/2025 13:29	15203	SFAR_T2	46	126	80	0.32	0.32	0	-1.35	-1.32	0	0	0	0	0	0
3/14/2025 13:29	43402	BENT_T1	103	110	7	0.78	1.19	0.41	-1.58	-1.54	2	2	0	1800	1800	0
3/14/2025 13:29	15204	SFAR_T2	6	11	5	0.87	0.56	-0.31	0	0	0	0	0	0	0	0
3/14/2025 13:30	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 13:30	43402	BENT_T1	110	109	-1	1.12	1.18	0.06	-0.79	-0.77	1	1	0	900	900	0
3/14/2025 13:30	54601	SUMM_T2	6	6	0	0.88	0.78	-0.1	0	0	0	0	0	0	0	0
3/14/2025 13:31	61701	ELIZ_T1	1	1	0	5	4.5	-0.5	0	0	0	0	0	0	0	0
3/14/2025 13:31	61703	ELIZ_T1	0	0	0	0	0	0	-1.91	-1.88	1	1	0	900	900	0
3/14/2025 13:35	41305	FISH_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
3/14/2025 13:35	41301	FISH_T1	5	25	20	1.22	0.56	-0.66	-0.34	-0.34	0	0	0	0	0	0
3/14/2025 13:36	64101	REFR_T1	7	9	2	0.53	0.64	0.11	-0.26	-0.24	0	0	0	0	0	0
3/14/2025 13:36	58401	MORO_T1	4	6	2	0.28	0.2	-0.08	-1.09	-1.11	1	1	0	600	600	0
3/14/2025 13:37	64101	REFR_T1	7	9	2	0.53	0.64	0.11	-0.39	-0.36	0	0	0	0	0	0
3/14/2025 13:38	64101	REFR_T1	7	9	2	0.53	0.64	0.11	-0.39	-0.36	0	0	0	0	0	0
3/14/2025 13:40	64101	REFR_T1	7	9	2	0.53	0.64	0.11	-0.26	-0.24	0	0	0	0	0	0
3/14/2025 13:40	66501	SMAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:40	66505	SMAN_T2	3	0	-3	0.87	0	-0.87	0	0	0	0	0	0	0	0
3/14/2025 13:40	66503	SMAN_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/14/2025 13:40	15204	SFAR_T2	8	13	5	0.68	0.51	-0.17	0	0	0	0	0	0	0	0
3/14/2025 13:40	15203	SFAR_T2	94	168	74	0.31	0.34	0.03	-1.32	-1.34	0	0	0	0	0	0
3/14/2025 13:40	43301	WATS_T2	3	2	-1	0.17	0.5	0.33	0.14	0.13	0	0	0	0	0	0
3/14/2025 13:40	66502	SMAN_T2	4	8	4	0.13	0.26	0.13	0	0	0	0	0	0	0	0
3/14/2025 13:40	66504	SMAN_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/14/2025 13:41	20403	ASHF_T2	109	157	48	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
3/14/2025 13:41	20401	ASHF_T2	15	23	8	0.45	0.41	-0.04	0.29	0.27	0	0	0	0	0	0
3/14/2025 13:41	64101	REFR_T1	7	9	2	0.53	0.64	0.11	0	0	0	0	0	0	0	0
3/14/2025 13:41	20402	ASHF_T2	3	6	3	0.2	0.28	0.08	0	0	0	0	0	0	0	0
3/14/2025 13:42	64101	REFR_T1	7	9	2	0.53	0.64	0.11	-0.26	-0.24	0	0	0	0	0	0
3/14/2025 13:42	43504	WWIL_T1	13	14	1	0.41	0.55	0.14	0.57	0.56	0	0	0	0	0	0
3/14/2025 13:42	60801	BUCK_T1	40	8	-32	0.31	0.36	0.05	-0.24	-0.25	0	0	0	0	0	0
3/14/2025 13:42	43505	WWIL_T1	1	1	0	2.2	2.3	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:42	60803	BUCK_T1	14	0	-14	0.26	0	-0.26	0	0	0	0	0	0	0	0
3/14/2025 13:42	43503	WWIL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 13:42	43506	WWIL_T1	1	1	0	1.8	1.9	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:43	20401	ASHF_T2	15	23	8	0.45	0.41	-0.04	0	0	0	0	0	0	0	0
3/14/2025 13:43	60801	BUCK_T1	40	8	-32	0.31	0.36	0.05	-0.24	-0.25	0	0	0	0	0	0
3/14/2025 13:43	20402	ASHF_T2	3	6	3	0.2	0.28	0.08	0	0	0	0	0	0	0	0
3/14/2025 13:43	60803	BUCK_T1	14	0	-14	0.26	0	-0.26	0	0	0	0	0	0	0	0
3/14/2025 13:43	20403	ASHF_T2	109	157	48	0.44	0.42	-0.02	-0.07	-0.07	0	0	0	0	0	0
3/14/2025 13:44	20401	ASHF_T2	15	23	8	0.45	0.41	-0.04	0	0	0	0	0	0	0	0
3/14/2025 13:44	60803	BUCK_T1	14	0	-14	0.26	0	-0.26	0	0	0	0	0	0	0	0
3/14/2025 13:44	20402	ASHF_T2	3	6	3	0.2	0.28	0.08	0	0	0	0	0	0	0	0
3/14/2025 13:44	20403	ASHF_T2	109	157	48	0.44	0.42	-0.02	-0.07	-0.07	0	0	0	0	0	0
3/14/2025 13:44	60801	BUCK_T1	40	8	-32	0.31	0.36	0.05	-0.48	-0.5	0	0	0	0	0	0
3/14/2025 13:45	20403	ASHF_T2	107	173	66	0.43	0.43	0	-0.07	-0.07	0	0	0	0	0	0
3/14/2025 13:45	20401	ASHF_T2	16	24	8	0.45	0.38	-0.07	0	0	0	0	0	0	0	0
3/14/2025 13:45	20402	ASHF_T2	4	6	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:45	60801	BUCK_T1	6	8	2	0.27	0.34	0.07	-0.24	-0.25	0	0	0	0	0	0
3/14/2025 13:46	20403	ASHF_T2	107	173	66	0.43	0.43	0	0	0	0	0	0	0	0	0
3/14/2025 13:46	60801	BUCK_T1	6	8	2	0.27	0.34	0.07	0	0	0	0	0	0	0	0
3/14/2025 13:46	20402	ASHF_T2	4	6	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:46	22103	EDEL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/14/2025 13:46	20401	ASHF_T2	16	24	8	0.45	0.38	-0.07	0.29	0.27	0	0	0	0	0	0
3/14/2025 13:46	60803	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 13:46	22101	EDEL_T2	2	2	0	0.5	0.95	0.45	0.27	0.3	1	1	0	1200	1200	0
3/14/2025 13:47	46802	HEPB_T1	3	6	3	0.83	0.57	-0.26	-0.45	-0.48	0	0	0	0	0	0
3/14/2025 13:47	46801	HEPB_T2	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0	0
3/14/2025 13:47	46803	HEPB_T2	2	2	0	0.1	0.2	0.1	0.46	0.42	0	0	0	0	0	0
3/14/2025 13:48	46803	HEPB_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:48	42903	MIDD_T2	5	6	1	1.04	1	-0.04	0	0	0	0	0	0	0	0
3/14/2025 13:48	42902	MIDD_T2	70	111	41	0.41	0.49	0.08	-0.35	-0.34	0	0	0	0	0	0
3/14/2025 13:48	42901	MIDD_T2	10	40	30	0.55	0.32	-0.23	0	0	0	0	0	0	0	0
3/14/2025 13:48	46801	HEPB_T2	2	2	0	1.1	1.1	0	0.51	0.5	0	0	0	0	0	0
3/14/2025 13:50	21206	ECAR_T2	1	1	0	7.8	8.1	0.3	0.21	0.21	0	0	0	0	0	0
3/14/2025 13:50	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 13:51	21206	ECAR_T2	1	1	0	7.8	8.1	0.3	0.21	0.21	0	0	0	0	0	0
3/14/2025 13:51	42902	MIDD_T2	70	111	41	0.41	0.49	0.08	-0.34	-0.17	0	0	0	0	0	0
3/14/2025 13:51	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 13:51	28102	TWLA_T2	5	20	15	0.32	0.49	0.17	0.15	0.16	0	0	0	0	0	0
3/14/2025 13:51	42903	MIDD_T2	5	6	1	1.04	1	-0.04	0	0	0	0	0	0	0	0
3/14/2025 13:51	42901	MIDD_T2	10	40	30	0.55	0.32	-0.23	0	0	0	0	0	0	0	0
3/14/2025 13:52	57401	SPAN_T1	2	3	1	1.75	1.07	-0.68	0.12	0.08	0	0	0	0	0	0
3/14/2025 13:52	57403	SPAN_T1	7	14	7	0.2	0.29	0.09	0	0	0	0	0	0	0	0
3/14/2025 13:52	64101	REFR_T1	5	13	8	0.68	0.57	-0.11	-0.24	-0.28	0	0	0	0	0	0
3/14/2025 13:52	55003	NEWP_T2	9	15	6	0.36	0.42	0.06	-0.1	-0.08	0	0	0	0	0	0
3/14/2025 13:53	55001	NEWP_T1	3	8	5	0.4	0.34	-0.06	-0.26	-0.29	0	0	0	0	0	0
3/14/2025 13:53	64101	REFR_T1	5	13	8	0.68	0.57	-0.11	-0.12	-0.14	0	0	0	0	0	0
3/14/2025 13:53	55002	NEWP_T1	39	26	-13	0.44	0.63	0.19	0	0	0	0	0	0	0	0
3/14/2025 13:54	57403	SPAN_T1	7	14	7	0.2	0.29	0.09	0.04	0.05	0	0	0	0	0	0
3/14/2025 13:54	67605	WARW_T1	43	34	-9	0.65	0.57	-0.08	0	0	0	0	0	0	0	0
3/14/2025 13:54	67603	WARW_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/14/2025 13:54	57401	SPAN_T1	2	3	1	1.75	1.07	-0.68	0	0	0	0	0	0	0	0
3/14/2025 13:55	55002	NEWP_T1	39	26	-13	0.44	0.63	0.19	0	0	0	0	0	0	0	0
3/14/2025 13:55	48303	ORWI_T2	31	51	20	0.85	0.78	-0.07	0	0	0	0	0	0	0	0
3/14/2025 13:55	53902	HALI_T2	3	4	1	2.47	2.1	-0.37	0	0	0	0	0	0	0	0
3/14/2025 13:55	57403	SPAN_T1	7	14	7	0.2	0.29	0.09	0	0	0	0	0	0	0	0
3/14/2025 13:55	55001	NEWP_T1	3	8	5	0.4	0.34	-0.06	-0.26	-0.29	0	0	0	0	0	0
3/14/2025 13:55	57401	SPAN_T1	2	3	1	1.75	1.07	-0.68	0	0	0	0	0	0	0	0
3/14/2025 13:55	53901	HALI_T2	4	6	2	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
3/14/2025 13:55	48302	ORWI_T2	5	5	0	3.76	3.94	0.18	-0.03	-0.02	0	0	0	0	0	0
3/14/2025 13:55	55003	NEWP_T2	9	15	6	0.36	0.42	0.06	-0.2	-0.16	0	0	0	0	0	0
3/14/2025 13:55	53903	HALI_T2	17	20	3	0.66	0.76	0.1	-0.15	-0.15	0	0	0	0	0	0
3/14/2025 13:56	53902	HALI_T2	3	4	1	2.47	2.1	-0.37	0	0	0	0	0	0	0	0
3/14/2025 13:56	58101	NEKI_T1	1	2	1	7.3	0.5	-6.8	0	0	0	0	0	0	0	0
3/14/2025 13:56	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 13:56	53903	HALI_T2	17	20	3	0.66	0.76	0.1	0	0	0	0	0	0	0	0
3/14/2025 13:56	67605	WARW_T1	43	34	-9	0.65	0.57	-0.08	-0.91	-0.87	0	0	0	0	0	0
3/14/2025 13:56	57401	SPAN_T1	2	3	1	1.75	1.07	-0.68	0	0	0	0	0	0	0	0
3/14/2025 13:56	67601	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 13:56	54601	SUMM_T2	6	9	3	0.53	0.84	0.31	0	0	0	0	0	0	0	0
3/14/2025 13:56	58102	NEKI_T1	1	2	1	1	0.85	-0.15	0.13	0.09	0	0	0	0	0	0
3/14/2025 13:56	48302	ORWI_T2	5	5	0	3.76	3.94	0.18	-0.03	-0.02	0	0	0	0	0	0
3/14/2025 13:56	67603	WARW_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/14/2025 13:56	48303	ORWI_T2	31	51	20	0.85	0.78	-0.07	0	0	0	0	0	0	0	0
3/14/2025 13:56	53901	HALI_T2	4	6	2	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
3/14/2025 13:56	55003	NEWP_T2	9	15	6	0.36	0.42	0.06	0	0	0	0	0	0	0	0
3/14/2025 13:56	57403	SPAN_T1	7	14	7	0.2	0.29	0.09	0.07	0.1	0	0	0	0	0	0
3/14/2025 13:57	53902	HALI_T2	3	4	1	2.47	2.1	-0.37	-0.31	-0.24	0	0	0	0	0	0
3/14/2025 13:57	53901	HALI_T2	4	6	2	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
3/14/2025 13:57	53903	HALI_T2	17	20	3	0.66	0.76	0.1	-0.15	-0.15	0	0	0	0	0	0
3/14/2025 13:57	52404	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/14/2025 13:57	52402	GRPA_T2	111	59	-52	0.35	0.44	0.09	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/14/2025 13:57	52401	GRPA_T2	4	6	2	0.5	0.27	-0.23	-0.89	-0.9	0	0	0	0	0	0
3/14/2025 13:57	52403	GRPA_T2	94	118	24	0.58	0.67	0.09	0	0	0	0	0	0	0	0
3/14/2025 13:58	57403	SPAN_T1	7	14	7	0.2	0.29	0.09	0.04	0.05	0	0	0	0	0	0
3/14/2025 13:58	52404	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/14/2025 13:58	14801	TREI_T2	101	138	37	0.42	0.46	0.04	0	0	0	0	0	0	0	0
3/14/2025 13:58	52402	GRPA_T2	111	59	-52	0.35	0.44	0.09	0	0	0	0	0	0	0	0
3/14/2025 13:58	52403	GRPA_T2	94	118	24	0.58	0.67	0.09	-0.56	-0.54	0	0	0	0	0	0
3/14/2025 13:58	52401	GRPA_T2	4	6	2	0.5	0.27	-0.23	-0.89	-0.9	0	0	0	0	0	0
3/14/2025 13:58	14802	TREI_T2	31	62	31	0.31	0.3	-0.01	0.66	0.63	0	0	0	0	0	0
3/14/2025 13:58	57401	SPAN_T1	2	3	1	1.75	1.07	-0.68	0	0	0	0	0	0	0	0
3/14/2025 13:59	53901	HALI_T2	4	6	2	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
3/14/2025 13:59	53903	HALI_T2	17	20	3	0.66	0.76	0.1	-0.15	-0.15	0	0	0	0	0	0
3/14/2025 13:59	53902	HALI_T2	3	4	1	2.47	2.1	-0.37	0	0	0	0	0	0	0	0
3/14/2025 14:00	52404	GRPA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/14/2025 14:00	52402	GRPA_T2	56	31	-25	0.45	0.59	0.14	0	0	0	0	0	0	0	0
3/14/2025 14:00	52401	GRPA_T2	4	3	-1	0.28	0.43	0.15	0	0	0	0	0	0	0	0
3/14/2025 14:00	52403	GRPA_T2	67	119	52	0.77	0.64	-0.13	-1.68	-1.62	0	0	0	0	0	0
3/14/2025 14:01	52403	GRPA_T2	67	119	52	0.77	0.64	-0.13	0	0	0	0	0	0	0	0
3/14/2025 14:01	52402	GRPA_T2	56	31	-25	0.45	0.59	0.14	0	0	0	0	0	0	0	0
3/14/2025 14:01	52401	GRPA_T2	4	3	-1	0.28	0.43	0.15	0	0	0	0	0	0	0	0
3/14/2025 14:01	20601	GRWO_T2	3	2	-1	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
3/14/2025 14:01	52404	GRPA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/14/2025 14:01	20603	GRWO_T2	216	137	-79	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
3/14/2025 14:02	41204	KENM_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/14/2025 14:02	41202	KENM_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
3/14/2025 14:02	52402	GRPA_T2	56	31	-25	0.45	0.59	0.14	0	0	0	0	0	0	0	0
3/14/2025 14:02	52401	GRPA_T2	4	3	-1	0.28	0.43	0.15	0	0	0	0	0	0	0	0
3/14/2025 14:02	52404	GRPA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/14/2025 14:02	41205	KENM_T2	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
3/14/2025 14:02	52403	GRPA_T2	67	119	52	0.77	0.64	-0.13	-0.56	-0.54	0	0	0	0	0	0
3/14/2025 14:03	64201	KINZ_T1	3	0	-3	0.2	0	-0.2	-0.42	-0.34	6	6	0	3000	3000	0
3/14/2025 14:03	64204	KINZ_T1	78	68	-10	1.46	0.77	-0.69	0	0	0	0	0	0	0	0
3/14/2025 14:03	64202	KINZ_T1	7	3	-4	0.64	0.13	-0.51	0	0	0	0	0	0	0	0
3/14/2025 14:04	20603	GRWO_T2	216	137	-79	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
3/14/2025 14:04	64701	LITI_T1	0	0	0	0	0	0	0.22	0.26	0	0	0	0	0	0
3/14/2025 14:04	63802	HEMP_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
3/14/2025 14:04	63803	HEMP_T1	1	2	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/14/2025 14:04	63804	HEMP_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
3/14/2025 14:04	42903	MIDD_T2	6	2	-4	1	0.1	-0.9	-0.03	-0.26	0	0	0	0	0	0
3/14/2025 14:04	63801	HEMP_T1	1	7	6	0.5	0.29	-0.21	0	0	0	0	0	0	0	0
3/14/2025 14:04	20601	GRWO_T2	3	2	-1	0.27	0.2	-0.07	0.45	0.41	0	0	0	0	0	0
3/14/2025 14:04	42902	MIDD_T2	111	0	-111	0.49	0	-0.49	-0.34	-0.17	0	0	0	0	0	0
3/14/2025 14:04	42901	MIDD_T2	40	0	-40	0.32	0	-0.32	0	0	0	0	0	0	0	0
3/14/2025 14:05	47401	PENS_T1	5	5	0	1.46	1.18	-0.28	0.81	0.77	0	0	0	0	0	0
3/14/2025 14:05	64204	KINZ_T1	78	68	-10	1.46	0.77	-0.69	0	0	0	0	0	0	0	0
3/14/2025 14:05	64201	KINZ_T1	3	0	-3	0.2	0	-0.2	-0.21	-0.17	3	3	0	1500	1500	0
3/14/2025 14:05	52401	GRPA_T2	4	3	-1	0.28	0.43	0.15	0	0	0	0	0	0	0	0
3/14/2025 14:05	47402	PENS_T1	4	2	-2	0.48	1.2	0.72	0	0	0	0	0	0	0	0
3/14/2025 14:05	64202	KINZ_T1	7	3	-4	0.64	0.13	-0.51	0	0	0	0	0	0	0	0
3/14/2025 14:05	47403	PENS_T1	7	10	3	0.59	0.63	0.04	0	0	0	0	0	0	0	0
3/14/2025 14:05	20601	GRWO_T2	3	2	-1	0.27	0.2	-0.07	0.45	0.41	0	0	0	0	0	0
3/14/2025 14:05	20603	GRWO_T2	216	137	-79	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
3/14/2025 14:05	52403	GRPA_T2	67	119	52	0.77	0.64	-0.13	-0.56	-0.54	0	0	0	0	0	0
3/14/2025 14:05	52404	GRPA_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/14/2025 14:05	52402	GRPA_T2	56	31	-25	0.45	0.59	0.14	0	0	0	0	0	0	0	0
3/14/2025 14:06	64201	KINZ_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/14/2025 14:06	64202	KINZ_T1	7	3	-4	0.64	0.13	-0.51	0	0	0	0	0	0	0	0
3/14/2025 14:06	64203	KINZ_T1	0	0	0	0	0	0	1.45	1.5	2	1	-1	1800	600	-1200
3/14/2025 14:06	58401	MORO_T1	5	10	5	0.22	0.4	0.18	0	0	0	0	0	0	0	0
3/14/2025 14:06	64204	KINZ_T1	78	68	-10	1.46	0.77	-0.69	0	0	0	0	0	0	0	0
3/14/2025 14:06	58402	MORO_T1	0	2	2	0	0.15	0.15	-0.13	-0.08	2	2	0	1500	1500	0
3/14/2025 14:06	16203	POFA_T2	12	7	-5	0.39	0.49	0.1	0	0	0	0	0	0	0	0
3/14/2025 14:06	16201	POFA_T2	30	11	-19	0.19	0.28	0.09	0	0	0	0	0	0	0	0
3/14/2025 14:07	16201	POFA_T2	30	11	-19	0.19	0.28	0.09	0	0	0	0	0	0	0	0
3/14/2025 14:07	42902	MIDD_T2	111	0	-111	0.49	0	-0.49	-0.17	-0.4	0	0	0	0	0	0
3/14/2025 14:07	42901	MIDD_T2	40	0	-40	0.32	0	-0.32	0	0	0	0	0	0	0	0
3/14/2025 14:07	64203	KINZ_T1	0	0	0	0	0	0	1.45	1.5	1	1	0	600	600	0
3/14/2025 14:07	58402	MORO_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/14/2025 14:07	58401	MORO_T1	5	10	5	0.22	0.4	0.18	-1.08	-1.1	1	1	0	600	600	0
3/14/2025 14:07	16203	POFA_T2	12	7	-5	0.39	0.49	0.1	0	0	0	0	0	0	0	0
3/14/2025 14:07	64201	KINZ_T1	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/14/2025 14:07	64204	KINZ_T1	78	68	-10	1.46	0.77	-0.69	0	0	0	0	0	0	0	0
3/14/2025 14:07	64202	KINZ_T1	7	3	-4	0.64	0.13	-0.51	0.75	0.77	0	0	0	0	0	0
3/14/2025 14:07	42903	MIDD_T2	6	2	-4	1	0.1	-0.9	0	0	0	0	0	0	0	0
3/14/2025 14:08	20601	GRWO_T2	3	2	-1	0.27	0.2	-0.07	0.41	0.39	0	0	0	0	0	0
3/14/2025 14:08	58402	MORO_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/14/2025 14:08	20603	GRWO_T2	216	137	-79	0.28	0.25	-0.03	0	0	0	0	0	0	0	0
3/14/2025 14:08	58401	MORO_T1	5	10	5	0.22	0.4	0.18	-1.08	-1.1	1	1	0	600	600	0
3/14/2025 14:09	66502	SMAN_T2	8	10	2	0.26	0.32	0.06	0	0	0	0	0	0	0	0
3/14/2025 14:09	66503	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/14/2025 14:09	66505	SMAN_T2	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
3/14/2025 14:09	66501	SMAN_T2	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
3/14/2025 14:09	57401	SPAN_T1	3	3	0	1.07	1.1	0.03	0	0	0	0	0	0	0	0
3/14/2025 14:09	66504	SMAN_T2	1	7	6	0.1	0.46	0.36	0	0	0	0	0	0	0	0
3/14/2025 14:09	57403	SPAN_T1	8	19	11	0.18	0.38	0.2	0.05	0.03	0	0	0	0	0	0
3/14/2025 14:10	66503	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/14/2025 14:10	66501	SMAN_T2	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
3/14/2025 14:10	66502	SMAN_T2	8	10	2	0.26	0.32	0.06	0	0	0	0	0	0	0	0
3/14/2025 14:10	66504	SMAN_T2	1	7	6	0.1	0.46	0.36	0	0	0	0	0	0	0	0
3/14/2025 14:10	66505	SMAN_T2	0	4	4	0	0.45	0.45	0.05	-0.13	1	1	0	900	900	0
3/14/2025 14:11	63801	HEMP_T1	1	7	6	0.5	0.29	-0.21	0	0	0	0	0	0	0	0
3/14/2025 14:11	66501	SMAN_T2	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
3/14/2025 14:11	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 14:11	63802	HEMP_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
3/14/2025 14:11	63803	HEMP_T1	1	2	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/14/2025 14:11	66502	SMAN_T2	8	10	2	0.26	0.32	0.06	0	0	0	0	0	0	0	0
3/14/2025 14:11	66503	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/14/2025 14:11	63804	HEMP_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
3/14/2025 14:11	66505	SMAN_T2	0	4	4	0	0.45	0.45	0.05	-0.13	1	1	0	900	900	0
3/14/2025 14:11	66504	SMAN_T2	1	7	6	0.1	0.46	0.36	0	0	0	0	0	0	0	0
3/14/2025 14:12	57403	SPAN_T1	8	19	11	0.18	0.38	0.2	0	0	0	0	0	0	0	0
3/14/2025 14:12	66504	SMAN_T2	1	7	6	0.1	0.46	0.36	-0.68	-0.66	0	0	0	0	0	0
3/14/2025 14:12	66505	SMAN_T2	0	4	4	0	0.45	0.45	0	0	0	0	0	0	0	0
3/14/2025 14:12	57401	SPAN_T1	3	3	0	1.07	1.1	0.03	0	0	0	0	0	0	0	0
3/14/2025 14:12	66501	SMAN_T2	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
3/14/2025 14:12	66502	SMAN_T2	8	10	2	0.26	0.32	0.06	0.17	0.27	0	0	0	0	0	0
3/14/2025 14:12	66503	SMAN_T2	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/14/2025 14:13	15603	NSTR_T2	6	6	0	0.42	0.37	-0.05	0	0	0	0	0	0	0	0
3/14/2025 14:13	15601	NSTR_T2	4	7	3	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
3/14/2025 14:13	61102	BERK_T5	7	8	1	0.31	0.34	0.03	0	0	0	0	0	0	0	0
3/14/2025 14:13	61103	BERK_T5	33	48	15	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
3/14/2025 14:13	15602	NSTR_T2	2	2	0	0.65	0.75	0.1	0	0	0	0	0	0	0	0
3/14/2025 14:13	61101	BERK_T5	6	9	3	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
3/14/2025 14:14	20401	ASHF_T2	23	21	-2	0.41	0.38	-0.03	0	0	0	0	0	0	0	0
3/14/2025 14:14	61801	EELI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/14/2025 14:14	20403	ASHF_T2	143	174	31	0.44	0.45	0.01	-0.03	-0.09	0	0	0	0	0	0
3/14/2025 14:14	61103	BERK_T5	33	48	15	0.28	0.23	-0.05	0	0	0	0	0	0	0	0
3/14/2025 14:14	61102	BERK_T5	7	8	1	0.31	0.34	0.03	0	0.06	1	1	0	300	300	0
3/14/2025 14:14	20402	ASHF_T2	6	6	0	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
3/14/2025 14:14	61101	BERK_T5	6	9	3	0.6	0.48	-0.12	0	0	0	0	0	0	0	0
3/14/2025 14:14	61803	EELI_T2	0	1	1	0	0.4	0.4	0.83	0.94	0	0	0	0	0	0
3/14/2025 14:15	14801	TREI_T2	129	122	-7	0.47	0.49	0.02	0.29	0.26	0	0	0	0	0	0
3/14/2025 14:15	45502	DERR_T2	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
3/14/2025 14:15	45501	DERR_T2	20	13	-7	0.53	0.42	-0.11	0.71	0.69	1	1	0	600	600	0
3/14/2025 14:15	14802	TREI_T2	52	43	-9	0.28	0.32	0.04	0	0	0	0	0	0	0	0
3/14/2025 14:16	61101	BERK_T5	8	12	4	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
3/14/2025 14:16	61102	BERK_T5	8	8	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/14/2025 14:16	61103	BERK_T5	37	68	31	0.26	0.21	-0.05	0.18	0.18	0	0	0	0	0	0
3/14/2025 14:17	61102	BERK_T5	8	8	0	0.3	0.35	0.05	0	0.06	1	1	0	300	300	0
3/14/2025 14:17	61803	EELI_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/14/2025 14:17	61801	EELI_T2	1	2	1	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
3/14/2025 14:17	61103	BERK_T5	37	68	31	0.26	0.21	-0.05	0.36	0.36	0	0	0	0	0	0
3/14/2025 14:17	61802	EELI_T2	0	0	0	0	0	0	-0.3	-0.33	0	0	0	0	0	0
3/14/2025 14:17	61101	BERK_T5	8	12	4	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
3/14/2025 14:18	45502	DERR_T2	2	1	-1	0.35	0.2	-0.15	0	0	0	0	0	0	0	0
3/14/2025 14:18	45501	DERR_T2	20	13	-7	0.53	0.42	-0.11	0.71	0.69	1	1	0	600	600	0
3/14/2025 14:21	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 14:23	11301	EMMA_T1	3	3	0	0.43	0.43	0	-0.88	-0.88	0	0	0	0	0	0
3/14/2025 14:23	57201	ROSS_T1	48	80	32	0.27	0.27	0	0	0	0	0	0	0	0	0
3/14/2025 14:23	11303	EMMA_T1	13	12	-1	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
3/14/2025 14:23	57203	ROSS_T1	3	12	9	0.23	0.23	0	0	0	0	0	0	0	0	0
3/14/2025 14:23	57205	ROSS_T1	12	17	5	0.7	0.68	-0.02	0	0	0	0	0	0	0	0
3/14/2025 14:23	11302	EMMA_T1	3	3	0	0.53	0.43	-0.1	0	0	0	0	0	0	0	0
3/14/2025 14:25	64101	REFR_T1	13	14	1	0.48	0.61	0.13	-0.13	-0.13	0	0	0	0	0	0
3/14/2025 14:27	67603	WARW_T1	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
3/14/2025 14:27	67605	WARW_T1	19	29	10	0.52	0.58	0.06	-0.89	-0.92	0	0	0	0	0	0
3/14/2025 14:27	53901	HALI_T2	5	11	6	0.4	0.29	-0.11	-1.07	-1.01	0	0	0	0	0	0
3/14/2025 14:27	42701	AUGU_T1	7	7	0	0.54	0.47	-0.07	0	0	2	2	0	1800	1800	0
3/14/2025 14:27	53903	HALI_T2	20	21	1	0.76	0.71	-0.05	0	0	0	0	0	0	0	0
3/14/2025 14:27	53902	HALI_T2	4	6	2	2.03	1.5	-0.53	0	0	0	0	0	0	0	0
3/14/2025 14:28	51108	CARL_T1	5	8	3	0.32	0.3	-0.02	0	0	0	0	0	0	0	0
3/14/2025 14:28	53903	HALI_T2	20	21	1	0.76	0.71	-0.05	-0.16	-0.15	0	0	0	0	0	0
3/14/2025 14:28	67603	WARW_T1	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
3/14/2025 14:28	51102	CARL_T1	30	69	39	0.23	0.23	0	0	0	0	0	0	0	0	0
3/14/2025 14:28	67605	WARW_T1	19	29	10	0.52	0.58	0.06	-0.89	-0.92	0	0	0	0	0	0
3/14/2025 14:28	53902	HALI_T2	4	6	2	2.03	1.5	-0.53	0	0	0	0	0	0	0	0
3/14/2025 14:28	51109	CARL_T1	3	8	5	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
3/14/2025 14:28	53901	HALI_T2	5	11	6	0.4	0.29	-0.11	0	0	0	0	0	0	0	0
3/14/2025 14:28	51101	CARL_T1	2	3	1	2.75	1.83	-0.92	-1.02	-1.09	0	0	0	0	0	0
3/14/2025 14:28	51107	CARL_T1	1	8	7	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/14/2025 14:29	15603	NSTR_T2	6	5	-1	0.37	0.26	-0.11	0	0	0	0	0	0	0	0
3/14/2025 14:29	15601	NSTR_T2	6	6	0	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/14/2025 14:29	64702	LITI_T2	0	0	0	0	0	0	-0.84	-0.79	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/14/2025 14:29	15602	NSTR_T2	2	2	0	0.65	0.7	0.05	0	0	0	0	0	0	0	0
3/14/2025 14:30	42701	AUGU_T1	6	7	1	0.52	0.51	-0.01	0	0	0	0	0	0	0	0
3/14/2025 14:30	23901	EFMO_T2	7	10	3	0.44	0.34	-0.1	-0.38	-0.38	0	0	0	0	0	0
3/14/2025 14:31	61704	ELIZ_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 14:31	61702	ELIZ_T2	2	4	2	1.2	0.78	-0.42	-0.75	-0.77	1	1	0	300	300	0
3/14/2025 14:31	42701	AUGU_T1	6	7	1	0.52	0.51	-0.01	0	0	0	0	0	0	0	0
3/14/2025 14:32	52401	GRPA_T2	2	4	2	0.3	0.48	0.18	0	0	0	0	0	0	0	0
3/14/2025 14:32	52402	GRPA_T2	28	18	-10	0.55	0.69	0.14	0	0	0	0	0	0	0	0
3/14/2025 14:32	44502	HAMI_T2	3	3	0	1.4	1.57	0.17	0.03	0.04	0	0	0	0	0	0
3/14/2025 14:32	52403	GRPA_T2	113	118	5	0.6	0.6	0	-0.51	-0.55	0	0	0	0	0	0
3/14/2025 14:32	44505	HAMI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 14:32	52404	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/14/2025 14:33	61001	DONV_T1	1	1	0	0.4	0.4	0	-0.04	-0.11	0	0	0	0	0	0
3/14/2025 14:36	47104	MARL_T1	0	0	0	0	0	0	-0.92	-0.95	0	0	0	0	0	0
3/14/2025 14:36	16702	MACK_T1	1	1	0	0.2	0.5	0.3	-1.08	-1.09	0	0	0	0	0	0
3/14/2025 14:36	47101	MARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/14/2025 14:37	65502	MOID_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 14:39	43802	SWIL_T1	2	1	-1	0.3	0.6	0.3	-0.29	-0.29	1	1	0	600	600	0
3/14/2025 14:39	43801	SWIL_T1	3	8	5	1.83	0.79	-1.04	0	0	0	0	0	0	0	0
3/14/2025 14:40	40302	TAMA_T3	47	56	9	0.48	0.53	0.05	0	0	0	0	0	0	0	0
3/14/2025 14:40	40303	TAMA_T3	8	9	1	0.19	0.38	0.19	0	0	0	0	0	0	0	0
3/14/2025 14:40	43504	WWIL_T1	13	13	0	0.55	0.56	0.01	0.57	0.52	0	0	0	0	0	0
3/14/2025 14:40	43505	WWIL_T1	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
3/14/2025 14:40	43506	WWIL_T1	1	2	1	2	1.1	-0.9	0	0	0	0	0	0	0	0
3/14/2025 14:40	40301	TAMA_T3	11	18	7	0.64	0.53	-0.11	1.73	1.61	2	2	0	1800	1800	0
3/14/2025 14:41	67605	WARW_T1	20	33	13	0.57	0.61	0.04	0	0	0	0	0	0	0	0
3/14/2025 14:41	67603	WARW_T1	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
3/14/2025 14:41	40301	TAMA_T3	11	18	7	0.64	0.53	-0.11	0	0	0	0	0	0	0	0
3/14/2025 14:41	40303	TAMA_T3	8	9	1	0.19	0.38	0.19	2.54	2.52	0	0	0	0	0	0
3/14/2025 14:41	40302	TAMA_T3	47	56	9	0.48	0.53	0.05	0	0	0	0	0	0	0	0
3/14/2025 14:42	67601	WARW_T2	0	0	0	0	0	0	-0.52	-0.41	0	0	0	0	0	0
3/14/2025 14:42	67502	WEWI_T2	628	758	130	0.4	0.61	0.21	0	0	0	0	0	0	0	0
3/14/2025 14:42	67503	WEWI_T2	11	27	16	0.35	0.34	-0.01	0	0	0	0	0	0	0	0
3/14/2025 14:43	67603	WARW_T1	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
3/14/2025 14:43	67201	TEHI_T1	1	0	-1	0.1	0	-0.1	0.91	0.99	1	1	0	900	900	0
3/14/2025 14:43	67605	WARW_T1	20	33	13	0.57	0.61	0.04	-0.92	-0.91	0	0	0	0	0	0
3/14/2025 14:44	52202	DEVO_T2	0	1	1	0	0.3	0.3	-0.78	-0.81	0	0	0	0	0	0
3/14/2025 14:44	53902	HALI_T2	6	5	-1	1.5	1.68	0.18	0	0	0	0	0	0	0	0
3/14/2025 14:44	15601	NSTR_T2	6	6	0	0.22	0.53	0.31	0	0	0	0	0	0	0	0
3/14/2025 14:44	53901	HALI_T2	11	5	-6	0.29	0.48	0.19	0	0	0	0	0	0	0	0
3/14/2025 14:44	53903	HALI_T2	19	20	1	0.68	0.69	0.01	-0.15	-0.16	0	0	0	0	0	0
3/14/2025 14:44	15602	NSTR_T2	2	2	0	0.7	0.7	0	0.08	0.08	0	0	0	0	0	0
3/14/2025 14:44	52204	DEVO_T2	1	1	0	1.3	1.4	0.1	0	0	0	0	0	0	0	0
3/14/2025 14:44	15603	NSTR_T2	5	4	-1	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
3/14/2025 14:45	41201	KENM_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/14/2025 14:45	41202	KENM_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/14/2025 14:45	41204	KENM_T2	1	2	1	0.7	0.25	-0.45	0	0	0	0	0	0	0	0
3/14/2025 14:46	45502	DERR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 14:46	45501	DERR_T2	10	7	-3	0.46	0.39	-0.07	0.69	0.68	1	1	0	600	600	0
3/14/2025 14:47	17805	GILB_T2	5	8	3	0.64	0.5	-0.14	-0.16	-0.2	0	0	0	0	0	0
3/14/2025 14:47	42401	GIMA_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/14/2025 14:47	17803	GILB_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/14/2025 14:47	17804	GILB_T2	6	15	9	0.62	0.36	-0.26	0	0	0	0	0	0	0	0
3/14/2025 14:49	17804	GILB_T2	6	15	9	0.62	0.36	-0.26	0	0	0	0	0	0	0	0
3/14/2025 14:49	54502	ENOL_T2	4	2	-2	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/14/2025 14:49	17805	GILB_T2	5	8	3	0.64	0.5	-0.14	-0.16	-0.2	0	0	0	0	0	0
3/14/2025 14:49	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 14:49	54505	ENOL_T2	3	3	0	0.6	0.67	0.07	-1.36	-1.39	1	1	0	600	600	0
3/14/2025 14:49	17803	GILB_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/14/2025 14:49	44701	MUNC_T2	9	6	-3	0.3	0.33	0.03	0	0	0	0	0	0	0	0
3/14/2025 14:51	44701	MUNC_T2	9	6	-3	0.3	0.33	0.03	0	0	0	0	0	0	0	0
3/14/2025 14:51	44703	MUNC_T2	0	0	0	0	0	0	0.59	0.64	0	0	0	0	0	0
3/14/2025 14:52	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 14:52	44701	MUNC_T2	9	6	-3	0.3	0.33	0.03	0	0	0	0	0	0	0	0
3/14/2025 14:53	63301	GREE_T1	8	14	6	0.15	0.16	0.01	0	0	0	0	0	0	0	0
3/14/2025 14:53	63302	GREE_T1	4	3	-1	0.33	0.33	0	0	0	0	0	0	0	0	0
3/14/2025 14:53	63303	GREE_T1	5	4	-1	0.36	0.4	0.04	0	0	0	0	0	0	0	0
3/14/2025 14:53	63306	GREE_T1	12	9	-3	0.34	0.3	-0.04	-0.51	-0.53	0	0	0	0	0	0
3/14/2025 14:53	63304	GREE_T1	241	213	-28	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
3/14/2025 14:53	63305	GREE_T1	30	29	-1	0.37	0.41	0.04	-1.29	-1.39	0	0	0	0	0	0
3/14/2025 14:54	57401	SPAN_T1	6	7	1	0.55	0.73	0.18	0.3	0.82	0	0	0	0	0	0
3/14/2025 14:54	63302	GREE_T1	4	3	-1	0.33	0.33	0	0	0	0	0	0	0	0	0
3/14/2025 14:54	63303	GREE_T1	5	4	-1	0.36	0.4	0.04	0	0	0	0	0	0	0	0
3/14/2025 14:54	63305	GREE_T1	30	29	-1	0.37	0.41	0.04	-1.29	-1.39	0	0	0	0	0	0
3/14/2025 14:54	57403	SPAN_T1	24	29	5	0.4	0.46	0.06	0	0	0	0	0	0	0	0
3/14/2025 14:54	63306	GREE_T1	12	9	-3	0.34	0.3	-0.04	0	0	0	0	0	0	0	0
3/14/2025 14:54	63301	GREE_T1	8	14	6	0.15	0.16	0.01	0	0	0	0	0	0	0	0
3/14/2025 14:54	63304	GREE_T1	241	213	-28	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
3/14/2025 14:56	63304	GREE_T1	241	213	-28	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
3/14/2025 14:56	57401	SPAN_T1	6	7	1	0.55	0.73	0.18	0.1	0.27	0	0	0	0	0	0
3/14/2025 14:56	63301	GREE_T1	8	14	6	0.15	0.16	0.01	0	0	0	0	0	0	0	0
3/14/2025 14:56	63306	GREE_T1	12	9	-3	0.34	0.3	-0.04	-0.51	-0.53	0	0	0	0	0	0
3/14/2025 14:56	63305	GREE_T1	30	29	-1	0.37	0.41	0.04	0	0	0	0	0	0	0	0
3/14/2025 14:56	63302	GREE_T1	4	3	-1	0.33	0.33	0	0	0	0	0	0	0	0	0
3/14/2025 14:56	63303	GREE_T1	5	4	-1	0.36	0.4	0.04	0.51	0.46	1	1	0	600	600	0
3/14/2025 14:56	57403	SPAN_T1	24	29	5	0.4	0.46	0.06	0	0	0	0	0	0	0	0
3/14/2025 14:57	14802	TREI_T2	32	52	20	0.32	0.29	-0.03	0.33	0.35	0	0	0	0	0	0
3/14/2025 14:57	63304	GREE_T1	241	213	-28	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
3/14/2025 14:57	63303	GREE_T1	5	4	-1	0.36	0.4	0.04	0	0	0	0	0	0	0	0
3/14/2025 14:57	63302	GREE_T1	4	3	-1	0.33	0.33	0	0	0	0	0	0	0	0	0
3/14/2025 14:57	63306	GREE_T1	12	9	-3	0.34	0.3	-0.04	-1.03	-1.05	0	0	0	0	0	0
3/14/2025 14:57	63301	GREE_T1	8	14	6	0.15	0.16	0.01	0	0	0	0	0	0	0	0
3/14/2025 14:57	63305	GREE_T1	30	29	-1	0.37	0.41	0.04	0	0	0	0	0	0	0	0
3/14/2025 14:57	14801	TREI_T2	110	158	48	0.45	0.43	-0.02	0	0	0	0	0	0	0	0
3/14/2025 14:57	57403	SPAN_T1	24	29	5	0.4	0.46	0.06	0	0	0	0	0	0	0	0
3/14/2025 14:57	57401	SPAN_T1	6	7	1	0.55	0.73	0.18	0	0	0	0	0	0	0	0
3/14/2025 14:58	63302	GREE_T1	4	3	-1	0.33	0.33	0	0	0	0	0	0	0	0	0
3/14/2025 14:58	63303	GREE_T1	5	4	-1	0.36	0.4	0.04	0	0	0	0	0	0	0	0
3/14/2025 14:58	57401	SPAN_T1	6	7	1	0.55	0.73	0.18	0.2	0.54	0	0	0	0	0	0
3/14/2025 14:58	63301	GREE_T1	8	14	6	0.15	0.16	0.01	0	0	0	0	0	0	0	0
3/14/2025 14:58	57403	SPAN_T1	24	29	5	0.4	0.46	0.06	0	0	0	0	0	0	0	0
3/14/2025 14:58	63306	GREE_T1	12	9	-3	0.34	0.3	-0.04	0	0	0	0	0	0	0	0
3/14/2025 14:58	63304	GREE_T1	241	213	-28	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
3/14/2025 14:58	63305	GREE_T1	30	29	-1	0.37	0.41	0.04	-1.29	-1.39	0	0	0	0	0	0
3/14/2025 15:00	15602	NSTR_T2	1	2	1	1.1	0.65	-0.45	0	0	0	0	0	0	0	0
3/14/2025 15:00	14801	TREI_T2	119	158	39	0.45	0.41	-0.04	0	0	0	0	0	0	0	0
3/14/2025 15:00	53903	HALI_T2	17	8	-9	0.61	0.66	0.05	-0.16	-0.17	0	0	0	0	0	0
3/14/2025 15:00	14802	TREI_T2	40	46	6	0.28	0.29	0.01	0	0	0	0	0	0	0	0
3/14/2025 15:00	53902	HALI_T2	5	3	-2	1.52	2.2	0.68	0	0	0	0	0	0	0	0
3/14/2025 15:00	15601	NSTR_T2	4	8	4	0.73	0.55	-0.18	0	0	0	0	0	0	0	0
3/14/2025 15:00	53901	HALI_T2	3	1	-2	0.63	0.7	0.07	0	0	0	0	0	0	0	0
3/14/2025 15:00	15603	NSTR_T2	4	10	6	0.15	0.18	0.03	0	0	0	0	0	0	0	0
3/14/2025 15:08	52403	GRPA_T2	113	100	-13	0.56	0.54	-0.02	-0.57	-0.61	0	0	0	0	0	0
3/14/2025 15:08	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/14/2025 15:08	26102	THRO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 15:08	52401	GRPA_T2	3	3	0	0.6	0.27	-0.33	0	0	0	0	0	0	0	0
3/14/2025 15:08	52402	GRPA_T2	15	42	27	0.65	0.42	-0.23	0	0	0	0	0	0	0	0
3/14/2025 15:10	66504	SMAN_T2	8	8	0	0.36	0.35	-0.01	0	0	0	0	0	0	0	0
3/14/2025 15:10	66502	SMAN_T2	6	13	7	0.42	0.38	-0.04	0	0	0	0	0	0	0	0
3/14/2025 15:10	66503	SMAN_T2	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/14/2025 15:10	66505	SMAN_T2	3	4	1	0.53	0.85	0.32	0	0	0	0	0	0	0	0
3/14/2025 15:10	66501	SMAN_T2	2	2	0	0.45	0.65	0.2	0	0	0	0	0	0	0	0
3/14/2025 15:11	66503	SMAN_T2	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/14/2025 15:11	14802	TREI_T2	40	46	6	0.28	0.29	0.01	0.35	0.33	0	0	0	0	0	0
3/14/2025 15:11	66504	SMAN_T2	8	8	0	0.36	0.35	-0.01	-1.32	-1.39	0	0	0	0	0	0
3/14/2025 15:11	14801	TREI_T2	119	158	39	0.45	0.41	-0.04	0	0	0	0	0	0	0	0
3/14/2025 15:11	66502	SMAN_T2	6	13	7	0.42	0.38	-0.04	0	0	0	0	0	0	0	0
3/14/2025 15:11	67303	WYOM_T2	0	0	0	0	0	0	0.43	0.36	0	0	0	0	0	0
3/14/2025 15:11	66501	SMAN_T2	2	2	0	0.45	0.65	0.2	0	0	0	0	0	0	0	0
3/14/2025 15:11	66505	SMAN_T2	3	4	1	0.53	0.85	0.32	0	0	0	0	0	0	0	0
3/14/2025 15:12	14801	TREI_T2	119	158	39	0.45	0.41	-0.04	0	0	0	0	0	0	0	0
3/14/2025 15:12	14802	TREI_T2	40	46	6	0.28	0.29	0.01	0.35	0.33	0	0	0	0	0	0
3/14/2025 15:13	66505	SMAN_T2	3	4	1	0.53	0.85	0.32	0	0	0	0	0	0	0	0
3/14/2025 15:13	66501	SMAN_T2	2	2	0	0.45	0.65	0.2	0	0	0	0	0	0	0	0
3/14/2025 15:13	66504	SMAN_T2	8	8	0	0.36	0.35	-0.01	-0.66	-0.7	0	0	0	0	0	0
3/14/2025 15:13	66503	SMAN_T2	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/14/2025 15:13	66502	SMAN_T2	6	13	7	0.42	0.38	-0.04	0	0	0	0	0	0	0	0
3/14/2025 15:14	66501	SMAN_T2	2	2	0	0.45	0.65	0.2	0	0	0	0	0	0	0	0
3/14/2025 15:14	66505	SMAN_T2	3	4	1	0.53	0.85	0.32	0	0	0	0	0	0	0	0
3/14/2025 15:14	66503	SMAN_T2	2	2	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/14/2025 15:14	66504	SMAN_T2	8	8	0	0.36	0.35	-0.01	-0.66	-0.7	0	0	0	0	0	0
3/14/2025 15:14	66502	SMAN_T2	6	13	7	0.42	0.38	-0.04	0	0	0	0	0	0	0	0
3/14/2025 15:15	67106	SPRI_T2	2	2	0	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/14/2025 15:15	67101	SPRI_T2	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
3/14/2025 15:15	67102	SPRI_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/14/2025 15:16	67102	SPRI_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/14/2025 15:16	67101	SPRI_T2	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
3/14/2025 15:16	67106	SPRI_T2	2	2	0	0.15	0.1	-0.05	-2.64	-2.64	2	2	0	1800	1800	0
3/14/2025 15:19	67102	SPRI_T2	2	2	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/14/2025 15:19	67101	SPRI_T2	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
3/14/2025 15:19	44701	MUNC_T2	6	8	2	0.28	0.35	0.07	-1.32	-1.35	0	0	0	0	0	0
3/14/2025 15:19	67106	SPRI_T2	2	2	0	0.15	0.1	-0.05	-1.32	-1.32	1	1	0	900	900	0
3/14/2025 15:20	62605	ENGL_T1	4	5	1	0.25	0.12	-0.13	0	0	0	0	0	0	0	0
3/14/2025 15:20	62602	ENGL_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/14/2025 15:20	58402	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 15:20	62604	ENGL_T1	0	0	0	0	0	0	0.15	0.19	1	1	0	600	600	0
3/14/2025 15:20	58401	MORO_T1	7	5	-2	0.4	0.32	-0.08	0	0	0	0	0	0	0	0
3/14/2025 15:20	62607	ENGL_T1	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/14/2025 15:21	58402	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 15:21	58401	MORO_T1	7	5	-2	0.4	0.32	-0.08	-1.14	-1.16	1	1	0	600	600	0
3/14/2025 15:23	58402	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 15:23	58401	MORO_T1	7	5	-2	0.4	0.32	-0.08	0	0	0	0	0	0	0	0
3/14/2025 15:23	13302	ORVI_T2	2	3	1	1.6	0.9	-0.7	1.24	1.34	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/14/2025 15:29	44301	BEAV_T2	9	3	-6	0.26	0.23	-0.03	0.22	0.11	2	2	0	1200	1200	0
3/14/2025 15:29	44302	BEAV_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
3/14/2025 15:30	44302	BEAV_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
3/14/2025 15:30	44301	BEAV_T2	3	0	-3	0.23	0	-0.23	0.11	0.06	1	1	0	600	600	0
3/14/2025 15:33	46902	MNTG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/14/2025 15:33	47101	MARL_T1	1	1	0	0.2	0.3	0.1	-1.31	-1.25	0	0	0	0	0	0
3/14/2025 15:33	46903	MNTG_T2	11	4	-7	0.59	0.45	-0.14	-0.66	-0.69	1	1	0	600	600	0
3/14/2025 15:33	46901	MNTG_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/14/2025 15:35	41602	CLEV_T1	4	6	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/14/2025 15:35	41601	CLEV_T1	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
3/14/2025 15:40	63306	GREE_T1	5	6	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/14/2025 15:40	63305	GREE_T1	21	66	45	0.39	0.35	-0.04	0	0	0	0	0	0	0	0
3/14/2025 15:40	63303	GREE_T1	2	3	1	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
3/14/2025 15:40	63304	GREE_T1	10	251	241	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
3/14/2025 15:40	63302	GREE_T1	1	2	1	0.5	0.3	-0.2	0.39	0.4	0	0	0	0	0	0
3/14/2025 15:40	63301	GREE_T1	2	14	12	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/14/2025 15:42	15601	NSTR_T2	5	3	-2	0.68	0.2	-0.48	0	0	0	0	0	0	0	0
3/14/2025 15:42	15603	NSTR_T2	5	6	1	0.16	0.15	-0.01	-0.66	-0.69	0	0	0	0	0	0
3/14/2025 15:42	40302	TAMA_T3	58	95	37	0.5	0.49	-0.01	0	0	0	0	0	0	0	0
3/14/2025 15:42	40303	TAMA_T3	9	14	5	0.32	0.44	0.12	0	0	0	0	0	0	0	0
3/14/2025 15:42	40301	TAMA_T3	17	70	53	0.5	0.3	-0.2	1.46	1.46	2	2	0	1800	1800	0
3/14/2025 15:42	15602	NSTR_T2	1	1	0	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
3/14/2025 15:43	60901	DONG_T2	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/14/2025 15:43	61101	BERK_T5	11	17	6	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
3/14/2025 15:43	60902	DONG_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/14/2025 15:43	61102	BERK_T5	7	9	2	0.3	0.28	-0.02	-0.05	0.02	1	1	0	300	300	0
3/14/2025 15:43	60903	DONG_T2	1	2	1	0.3	0.15	-0.15	0.41	0.42	1	1	0	600	600	0
3/14/2025 15:43	43801	SWIL_T1	7	16	9	1.06	0.54	-0.52	0	0	0	0	0	0	0	0
3/14/2025 15:43	43802	SWIL_T1	1	2	1	0.3	0.35	0.05	-0.3	-0.31	1	1	0	600	600	0
3/14/2025 15:43	61103	BERK_T5	58	166	108	0.21	0.17	-0.04	0	0	0	0	0	0	0	0
3/14/2025 15:44	61103	BERK_T5	58	166	108	0.21	0.17	-0.04	0.08	0.08	0	0	0	0	0	0
3/14/2025 15:44	61101	BERK_T5	11	17	6	0.27	0.24	-0.03	0	0	0	0	0	0	0	0
3/14/2025 15:44	41602	CLEV_T1	4	6	2	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/14/2025 15:44	46001	BERW_T1	0	0	0	0	0	0	1.02	0.88	0	0	0	0	0	0
3/14/2025 15:44	41601	CLEV_T1	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
3/14/2025 15:44	61102	BERK_T5	7	9	2	0.3	0.28	-0.02	-0.09	0.04	2	2	0	600	600	0
3/14/2025 15:45	61103	BERK_T5	163	82	-81	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
3/14/2025 15:45	61102	BERK_T5	9	6	-3	0.28	0.32	0.04	-0.19	0.08	4	4	0	1200	1200	0
3/14/2025 15:45	61101	BERK_T5	16	10	-6	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
3/14/2025 15:46	61103	BERK_T5	163	82	-81	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
3/14/2025 15:46	61102	BERK_T5	9	6	-3	0.28	0.32	0.04	-0.09	0.04	2	2	0	600	600	0
3/14/2025 15:46	45801	HEGI_T1	2	0	-2	0.2	0	-0.2	-0.37	-0.38	1	1	0	900	900	0
3/14/2025 15:46	61101	BERK_T5	16	10	-6	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
3/14/2025 15:47	61102	BERK_T5	9	6	-3	0.28	0.32	0.04	-0.05	0.02	1	1	0	300	300	0
3/14/2025 15:47	61103	BERK_T5	163	82	-81	0.17	0.16	-0.01	0.08	0.08	0	0	0	0	0	0
3/14/2025 15:47	61101	BERK_T5	16	10	-6	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
3/14/2025 15:48	61103	BERK_T5	163	82	-81	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
3/14/2025 15:48	61102	BERK_T5	9	6	-3	0.28	0.32	0.04	-0.09	0.04	2	2	0	600	600	0
3/14/2025 15:48	61101	BERK_T5	16	10	-6	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
3/14/2025 15:49	46602	LACR_T1	1	3	2	1.4	0.63	-0.77	-0.84	-0.79	0	0	0	0	0	0
3/14/2025 15:50	46602	LACR_T1	1	3	2	1.4	0.63	-0.77	-0.84	-0.79	0	0	0	0	0	0
3/14/2025 15:55	67603	WARW_T1	2	1	-1	0.45	0.5	0.05	0	-0.04	0	0	0	0	0	0
3/14/2025 15:55	67605	WARW_T1	34	49	15	0.51	0.52	0.01	0	0	0	0	0	0	0	0
3/14/2025 15:56	57205	ROSS_T1	14	13	-1	0.55	0.52	-0.03	0	0	0	0	0	0	0	0
3/14/2025 15:56	57203	ROSS_T1	30	30	0	0.12	0.14	0.02	0	0	0	0	0	0	0	0
3/14/2025 15:56	57201	ROSS_T1	101	87	-14	0.26	0.28	0.02	-0.48	-0.62	0	0	0	0	0	0
3/14/2025 15:58	16302	ALPA_T2	4	4	0	0.43	0.25	-0.18	0	0	0	0	0	0	0	0
3/14/2025 15:59	16302	ALPA_T2	4	4	0	0.43	0.25	-0.18	0	0	0	0	0	0	0	0
3/14/2025 16:03	64902	MILL_T2	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
3/14/2025 16:04	64904	MILL_T1	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
3/14/2025 16:04	64901	MILL_T1	31	24	-7	0.16	0.12	-0.04	0	0	0	0	0	0	0	0
3/14/2025 16:05	52102	MEIS_T1	0	1	1	0	0.3	0.3	0	0	1	1	0	450	450	0
3/14/2025 16:05	52101	MEIS_T1	4	4	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/14/2025 16:06	52502	PROG_T2	0	0	0	0	0	0	-0.74	-0.76	1	1	0	900	900	0
3/14/2025 16:09	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 16:10	67605	WARW_T1	42	44	2	0.47	0.52	0.05	-1.09	-1.08	0	0	0	0	0	0
3/14/2025 16:10	52502	PROG_T2	0	0	0	0	0	0	-0.76	-0.75	1	1	0	900	900	0
3/14/2025 16:10	67402	WAKE_T2	4	0	-4	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/14/2025 16:10	67603	WARW_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/14/2025 16:10	67401	WAKE_T2	171	112	-59	0.24	0.24	0	-1.22	-1.23	0	0	0	0	0	0
3/14/2025 16:11	67402	WAKE_T2	4	0	-4	0.2	0	-0.2	0.19	0.15	0	0	0	0	0	0
3/14/2025 16:11	67401	WAKE_T2	171	112	-59	0.24	0.24	0	-1.22	-1.23	0	0	0	0	0	0
3/14/2025 16:12	67402	WAKE_T2	4	0	-4	0.2	0	-0.2	0.19	0.15	0	0	0	0	0	0
3/14/2025 16:12	67401	WAKE_T2	171	112	-59	0.24	0.24	0	-1.22	-1.23	0	0	0	0	0	0
3/14/2025 16:13	67402	WAKE_T2	4	0	-4	0.2	0	-0.2	0.39	0.31	0	0	0	0	0	0
3/14/2025 16:13	67401	WAKE_T2	171	112	-59	0.24	0.24	0	-1.22	-1.23	0	0	0	0	0	0
3/14/2025 16:14	52202	DEVO_T2	4	0	-4	0.15	0	-0.15	-0.85	-0.84	0	0	0	0	0	0
3/14/2025 16:14	52204	DEVO_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/14/2025 16:15	52204	DEVO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 16:15	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 16:16	52202	DEVO_T2	0	0	0	0	0	0	-0.85	-0.84	0	0	0	0	0	0
3/14/2025 16:16	52204	DEVO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 16:17	52202	DEVO_T2	0	0	0	0	0	0	-0.85	-0.84	0	0	0	0	0	0
3/14/2025 16:17	52204	DEVO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 16:21	64101	REFR_T1	6	9	3	0.35	0.32	-0.03	-0.15	-0.22	0	0	0	0	0	0
3/14/2025 16:26	42201	SHEN_T2	2	1	-1	0.55	0.5	-0.05	0.35	0.34	0	0	0	0	0	0
3/14/2025 16:27	55003	NEWP_T2	11	8	-3	0.44	0.41	-0.03	-0.19	-0.17	0	0	0	0	0	0
3/14/2025 16:32	45801	HEGI_T1	0	0	0	0	0	0	-0.45	-0.45	1	1	0	900	900	0
3/14/2025 16:32	40101	HUNT_T2	4	2	-2	0.23	0.15	-0.08	-1.83	-1.83	0	0	0	0	0	0
3/14/2025 16:35	40101	HUNT_T2	4	2	-2	0.23	0.15	-0.08	-1.83	-1.83	0	0	0	0	0	0
3/14/2025 16:42	15702	TANN_T2	1	0	-1	0.2	0	-0.2	-0.49	-0.47	0	0	0	0	0	0
3/14/2025 16:42	15703	TANN_T2	1	1	0	5	5	0	0	0	0	0	0	0	0	0
3/14/2025 16:43	10602	BLGL_T2	2	2	0	1.05	0.8	-0.25	-0.07	-0.04	0	0	0	0	0	0
3/14/2025 16:43	61304	EARL_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/14/2025 16:43	61303	EARL_T1	0	0	0	0	0	0	0.52	0.43	0	0	0	0	0	0
3/14/2025 16:47	61304	EARL_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/14/2025 16:47	61301	EARL_T1	0	0	0	0	0	0	0.15	0.13	0	0	0	0	0	0
3/14/2025 16:49	61304	EARL_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/14/2025 16:49	61302	EARL_T1	0	0	0	0	0	0	0.28	0.3	1	1	0	1200	1200	0
3/14/2025 16:50	24204	PROV_T3	5	5	0	1.26	1.28	0.02	0	0	0	0	0	0	0	0
3/14/2025 16:50	24201	PROV_T3	66	70	4	0.41	0.36	-0.05	-1.52	-1.53	1	1	0	1200	1200	0
3/14/2025 16:51	65702	RVIL_T2	0	0	0	0	0	0	0.91	-0.99	0	0	0	0	0	0
3/14/2025 16:52	24204	PROV_T3	5	5	0	1.26	1.28	0.02	0	0	0	0	0	0	0	0
3/14/2025 16:52	24201	PROV_T3	66	70	4	0.41	0.36	-0.05	-1.53	-1.51	1	1	0	1200	1200	0
3/14/2025 16:52	65702	RVIL_T2	0	0	0	0	0	0	-0.91	-0.99	0	0	0	0	0	0
3/14/2025 16:52	48303	ORWI_T2	47	44	-3	0.66	0.68	0.02	0	0	0	0	0	0	0	0
3/14/2025 16:52	48302	ORWI_T2	9	5	-4	2.26	3.84	1.58	-0.14	-0.15	0	0	0	0	0	0
3/14/2025 16:53	66902	SHIL_T2	0	0	0	0	0	0	-2.06	-2.15	0	0	0	0	0	0
3/14/2025 16:53	48301	ORWI_T1	8	2	-6	1.5	5.55	4.05	0.26	0.27	0	0	0	0	0	0
3/14/2025 16:53	48302	ORWI_T2	9	5	-4	2.26	3.84	1.58	-0.14	-0.15	0	0	0	0	0	0
3/14/2025 16:53	48303	ORWI_T2	47	44	-3	0.66	0.68	0.02	0	0	0	0	0	0	0	0
3/14/2025 16:53	65702	RVIL_T2	0	0	0	0	0	0	-0.91	-0.99	0	0	0	0	0	0
3/14/2025 16:53	64101	REFR_T1	8	3	-5	0.29	0.2	-0.09	-0.18	-0.22	0	0	0	0	0	0
3/14/2025 16:53	66901	SHIL_T2	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/14/2025 16:54	65702	RVIL_T2	0	0	0	0	0	0	-1.83	-1.98	0	0	0	0	0	0
3/14/2025 16:56	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 16:57	65702	RVIL_T2	0	0	0	0	0	0	-0.91	-0.99	0	0	0	0	0	0
3/14/2025 17:02	45301	WBER_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 17:02	45303	WBER_T2	10	10	0	1.43	1.47	0.04	-0.39	-0.39	0	0	0	0	0	0
3/14/2025 17:04	45301	WBER_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 17:04	45303	WBER_T2	10	10	0	1.43	1.47	0.04	-0.39	-0.39	0	0	0	0	0	0
3/14/2025 17:05	45301	WBER_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 17:05	45303	WBER_T2	10	10	0	1.43	1.47	0.04	-0.39	-0.39	0	0	0	0	0	0
3/14/2025 17:30	45501	DERR_T2	0	0	0	0	0	0	0.59	0.63	1	1	0	600	600	0
3/14/2025 17:31	45501	DERR_T2	0	0	0	0	0	0	0.59	0.63	1	1	0	600	600	0
3/14/2025 17:35	46102	MACI_T1	0	0	0	0	0	0	0.61	0.62	0	0	0	0	0	0
3/14/2025 17:36	13303	ORVI_T1	0	0	0	0	0	0	0.84	0.83	0	0	0	0	0	0
3/14/2025 17:37	13303	ORVI_T1	0	0	0	0	0	0	0.84	0.83	0	0	0	0	0	0
3/14/2025 17:39	50625	CCTY_T2	7	7	0	2.96	3	0.04	0	0	0	0	0	0	0	0
3/14/2025 17:39	50624	CCTY_T2	2	0	0	6.25	6.1	-0.15	0	0	0	0	0	0	0	0
3/14/2025 17:39	59402	RFLD_T2	1	0	-1	0.1	0	-0.1	-0.96	-0.96	1	1	0	450	450	0
3/14/2025 17:39	50623	CCTY_T2	6	6	0	6.07	6.17	0.1	0	0	0	0	0	0	0	0
3/14/2025 17:39	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 17:41	24004	WIBA_T1	1	10	9	0.2	0.11	-0.09	0	0	0	0	0	0	0	0
3/14/2025 17:41	59402	RFLD_T2	1	0	-1	0.1	0	-0.1	-1.92	-1.92	2	2	0	900	900	0
3/14/2025 17:41	24001	WIBA_T1	0	0	0	0	0	0	0.87	0.88	0	0	0	0	0	0
3/14/2025 17:45	40201	BEGA_T2	9	18	9	0.24	0.24	0	0	0	0	0	0	0	0	0
3/14/2025 17:58	10101	ALLE_T3	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
3/14/2025 17:58	10103	ALLE_T3	0	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0
3/14/2025 17:58	10105	ALLE_T3	1	1	0	1.3	0	-1.3	0	0	0	0	0	0	0	0
3/14/2025 17:58	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 18:00	20403	ASHF_T2	0	7	7	0	0.19	0.19	0.06	0.09	0	0	0	0	0	0
3/14/2025 18:00	20401	ASHF_T2	5	8	3	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
3/14/2025 18:01	22003	BOHE_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/14/2025 18:01	22002	BOHE_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
3/14/2025 18:02	61001	DONV_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
3/14/2025 18:05	61001	DONV_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
3/14/2025 18:11	64701	LITI_T1	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
3/14/2025 18:16	16101	BING_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
3/14/2025 18:18	23401	HONE_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
3/14/2025 18:20	23401	HONE_T2	0	0	0	0	0	0	-0.49	-0.51	0	0	0	0	0	0
3/14/2025 18:21	67203	TEHI_T1	0	0	0	0	0	0	1.47	1.36	1	1	0	600	600	0
3/14/2025 18:23	67203	TEHI_T1	0	0	0	0	0	0	1.47	1.36	1	1	0	600	600	0
3/14/2025 18:25	17802	GILB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 18:32	45303	WBER_T2	9	9	0	1.57	1.56	-0.01	0	0	0	0	0	0	0	0
3/14/2025 18:32	45302	WBER_T2	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
3/14/2025 18:33	11203	ELHE_T1	0	0	0	0	0	0	0.77	0.86	0	0	0	0	0	0
3/14/2025 18:45	52101	MEIS_T1	1	1	0	1.3	1	-0.3	0	0	0	0	0	0	0	0
3/14/2025 20:06	62607	ENGL_T1	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
3/14/2025 20:08	62607	ENGL_T1	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
3/14/2025 20:17	10702	CATA_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/14/2025 20:17	10705	CATA_T2	0	0	0	0	0	0	-0.09	0	0	0	0	0	0	0
3/14/2025 20:24	66502	SMAN_T2	0	0	0	0	0	0	-0.25	-0.22	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/14/2025 20:24	66505	SMAN_T2	3	3	0	1.13	1.67	0.54	0	0	0	0	0	0	0	0
3/14/2025 20:28	55002	NEWP_T1	3	4	1	0.6	0.63	0.03	-0.31	-0.3	0	0	0	0	0	0
3/14/2025 20:30	40502	CRES_T2	57	68	11	0.46	0.48	0.02	0.1	0.1	0	0	0	0	0	0
3/14/2025 20:30	40501	CRES_T2	12	13	1	0.31	0.42	0.11	0	0	0	0	0	0	0	0
3/14/2025 20:32	40502	CRES_T2	57	68	11	0.46	0.48	0.02	0.05	0.05	0	0	0	0	0	0
3/14/2025 20:32	40501	CRES_T2	12	13	1	0.31	0.42	0.11	0	0	0	0	0	0	0	0
3/14/2025 20:33	40501	CRES_T2	12	13	1	0.31	0.42	0.11	0	0	0	0	0	0	0	0
3/14/2025 20:33	40502	CRES_T2	57	68	11	0.46	0.48	0.02	0.1	0.1	0	0	0	0	0	0
3/14/2025 20:35	46506	LOHA_T1	3	3	0	4.2	4.6	0.4	0	0	0	0	0	0	0	0
3/14/2025 20:35	46504	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 20:35	46503	LOHA_T1	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
3/14/2025 20:52	47901	HRDG_T1	0	0	0	0	0	0	0.68	0.32	0	0	0	0	0	0
3/14/2025 21:03	28102	TWLA_T2	1	5	4	0.3	0.28	-0.02	0.16	0.17	0	0	0	0	0	0
3/14/2025 21:05	10602	BLGL_T2	0	0	0	0	0	0	-0.01	-0.02	0	0	0	0	0	0
3/14/2025 21:06	15601	NSTR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 21:06	64204	KINZ_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:06	13905	SEID_T1	0	0	0	0	0	0	0.2	0.19	0	0	0	0	0	0
3/14/2025 21:06	17805	GILB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:06	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:06	64201	KINZ_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/14/2025 21:06	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:06	15603	NSTR_T2	0	0	0	0	0	0	-0.73	-0.69	0	0	0	0	0	0
3/14/2025 21:06	64203	KINZ_T1	0	0	0	0	0	0	0.07	0.11	0	0	0	0	0	0
3/14/2025 21:07	41301	FISH_T1	1	5	4	0.7	0.34	-0.36	-0.42	-0.43	0	0	0	0	0	0
3/14/2025 21:07	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:07	11301	EMMA_T1	0	0	0	0	0	0	-0.94	-0.98	0	0	0	0	0	0
3/14/2025 21:07	17805	GILB_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
3/14/2025 21:07	61701	ELIZ_T1	1	1	0	5.3	5.6	0.3	-0.16	-0.05	0	0	0	0	0	0
3/14/2025 21:07	20401	ASHF_T2	6	1	-5	0.37	0.1	-0.27	0.19	0.25	0	0	0	0	0	0
3/14/2025 21:07	61102	BERK_T5	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/14/2025 21:07	21206	ECAR_T2	1	1	0	7.3	7.3	0	1.14	1.2	0	0	0	0	0	0
3/14/2025 21:07	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:07	61103	BERK_T5	3	25	22	0.1	0.12	0.02	-0.01	-0.01	0	0	0	0	0	0
3/14/2025 21:07	15203	SFAR_T2	0	0	0	0	0	0	-1.44	-1.43	0	0	0	0	0	0
3/14/2025 21:07	61101	BERK_T5	2	3	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
3/14/2025 21:08	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:08	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:08	66504	SMAN_T2	0	0	0	0	0	0	-1.35	-1.31	0	0	0	0	0	0
3/14/2025 21:08	21701	SUBU_T1	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
3/14/2025 21:08	61101	BERK_T5	2	3	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
3/14/2025 21:08	60803	BUCK_T1	1	8	7	0.1	0.14	0.04	0	0	0	0	0	0	0	0
3/14/2025 21:08	61102	BERK_T5	1	1	0	0.4	0.4	0	-0.08	-0.12	1	1	0	300	300	0
3/14/2025 21:08	61103	BERK_T5	3	25	22	0.1	0.12	0.02	-0.01	-0.01	0	0	0	0	0	0
3/14/2025 21:08	10702	CATA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:08	16302	ALPA_T2	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
3/14/2025 21:08	66505	SMAN_T2	3	3	0	1.27	1.4	0.13	0	0	0	0	0	0	0	0
3/14/2025 21:08	66902	SHIL_T2	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
3/14/2025 21:08	15201	SFAR_T1	0	0	0	0	0	0	-1.02	-1.01	2	2	0	1800	1800	0
3/14/2025 21:08	21705	SUBU_T1	1	1	0	5	5.3	0.3	0	0	0	0	0	0	0	0
3/14/2025 21:08	10705	CATA_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
3/14/2025 21:08	60801	BUCK_T1	8	28	20	0.1	0.15	0.05	-0.31	-0.28	0	0	0	0	0	0
3/14/2025 21:09	40302	TAMA_T3	5	10	5	0.24	0.3	0.06	0	0	0	0	0	0	0	0
3/14/2025 21:09	20601	GRWO_T2	0	0	0	0	0	0	-0.3	-0.26	0	0	0	0	0	0
3/14/2025 21:09	11202	ELHE_T2	0	0	0	0	0	0	0.34	0.34	1	1	0	1200	1200	0
3/14/2025 21:09	24205	PROV_T3	3	17	14	0.1	0.24	0.14	0	0	0	0	0	0	0	0
3/14/2025 21:09	24204	PROV_T3	44	81	37	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/14/2025 21:09	15203	SFAR_T2	0	0	0	0	0	0	-1.44	-1.43	0	0	0	0	0	0
3/14/2025 21:09	10705	CATA_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
3/14/2025 21:09	64701	LITI_T1	0	0	0	0	0	0	0.14	0.01	0	0	0	0	0	0
3/14/2025 21:09	13302	ORVI_T2	10	13	3	0.16	0.24	0.08	1.28	1.21	0	0	0	0	0	0
3/14/2025 21:09	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:09	66505	SMAN_T2	3	3	0	1.27	1.4	0.13	-0.46	-0.43	1	1	0	900	900	0
3/14/2025 21:09	40303	TAMA_T3	0	0	0	0	0	0	2.46	2.42	0	0	0	0	0	0
3/14/2025 21:09	40301	TAMA_T3	1	2	1	0	0.1	0.1	0.77	0.74	2	2	0	1800	1800	0
3/14/2025 21:09	63501	HEID_TBK1-2	24	34	10	0.23	0.25	0.02	0.34	0.26	0	0	0	0	0	0
3/14/2025 21:09	24201	PROV_T3	4	8	4	4.2	2.09	-2.11	-0.2	-0.2	0	0	0	0	0	0
3/14/2025 21:09	46901	MNTG_T2	0	0	0	0	0	0	-1.02	-1.01	1	1	0	1200	1200	0
3/14/2025 21:09	67402	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:09	16101	BING_T2	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
3/14/2025 21:09	10702	CATA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:10	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:10	66902	SHIL_T2	0	0	0	0	0	0	-2.11	-2.12	0	0	0	0	0	0
3/14/2025 21:10	61304	EARL_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
3/14/2025 21:10	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:10	67605	WARW_T1	15	16	1	0.49	0.46	-0.03	0	0	0	0	0	0	0	0
3/14/2025 21:10	17401	FOHI_T1	0	0	0	0	0	0	-1.05	-1.01	0	0	0	0	0	0
3/14/2025 21:10	67401	WAKE_T2	0	0	0	0	0	0	-1.08	-0.98	0	0	0	0	0	0
3/14/2025 21:10	66505	SMAN_T2	3	3	0	1.27	1.4	0.13	0	0	0	0	0	0	0	0
3/14/2025 21:10	14801	TREI_T2	50	3	-47	0.19	0.13	-0.06	0.31	0.3	0	0	0	0	0	0
3/14/2025 21:10	46002	BERW_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
3/14/2025 21:10	64204	KINZ_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:10	15601	NSTR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 21:10	14802	TREI_T2	5	3	-2	0.32	0.1	-0.22	0.56	0.58	0	0	0	0	0	0
3/14/2025 21:10	67603	WARW_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
3/14/2025 21:10	61103	BERK_T5	3	25	22	0.1	0.12	0.02	-0.01	-0.01	0	0	0	0	0	0
3/14/2025 21:10	47401	PENS_T1	1	1	0	0.1	0.1	0	0.6	0.61	0	0	0	0	0	0
3/14/2025 21:10	10702	CATA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:10	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
3/14/2025 21:10	10705	CATA_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
3/14/2025 21:10	46901	MNTG_T2	0	0	0	0	0	0	-1.02	-1.01	1	1	0	1200	1200	0
3/14/2025 21:10	67106	SPRI_T2	0	0	0	0	0	0	-1.35	-1.35	1	1	0	900	900	0
3/14/2025 21:10	61102	BERK_T5	1	1	0	0.4	0.4	0	-0.23	-0.36	3	3	0	900	900	0
3/14/2025 21:10	63501	HEID_TBK1-2	24	34	10	0.23	0.25	0.02	0.67	0.52	0	0	0	0	0	0
3/14/2025 21:10	61101	BERK_T5	2	3	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
3/14/2025 21:10	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:10	64201	KINZ_T1	0	1	1	0	0.3	0.3	0.26	0.28	1	1	0	300	300	0
3/14/2025 21:10	17805	GILB_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
3/14/2025 21:10	17802	GILB_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
3/14/2025 21:10	16302	ALPA_T2	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
3/14/2025 21:10	10101	ALLE_T3	2	2	0	4.75	6.2	1.45	0	0	0	0	0	0	0	0
3/14/2025 21:10	10805	CHHI_T2	1	1	0	7.7	7.6	-0.1	-1.12	-1.15	0	0	0	0	0	0
3/14/2025 21:10	23403	HONE_T1	0	1	1	0	0	0	-0.84	-0.79	0	0	0	0	0	0
3/14/2025 21:10	22002	BOHE_T1	0	0	0	0	0	0	0.11	0.15	0	0	0	0	0	0
3/14/2025 21:11	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
3/14/2025 21:11	66505	SMAN_T2	3	3	0	1.27	1.4	0.13	0	0	0	0	0	0	0	0
3/14/2025 21:11	42903	MIDD_T2	2	2	0	0.1	0.5	0.4	-0.49	-0.49	0	0	0	0	0	0
3/14/2025 21:11	15601	NSTR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 21:11	24202	PROV_T4	139	202	63	0.22	0.29	0.07	-0.89	-0.87	1	1	0	1200	1200	0
3/14/2025 21:11	67605	WARW_T1	15	16	1	0.49	0.46	-0.03	-1.02	-0.97	0	0	0	0	0	0
3/14/2025 21:11	24206	PROV_T4	1	29	28	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/14/2025 21:11	15203	SFAR_T2	0	0	0	0	0	0	-1.44	-1.43	0	0	0	0	0	0
3/14/2025 21:11	67904	WNHO_T1	0	0	0	0	0	0	-1.24	-1.25	1	1	0	1200	1200	0
3/14/2025 21:11	24203	PROV_T4	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 21:11	43402	BENT_T1	2	32	30	0.25	0.18	-0.07	-1.06	-1.07	1	1	0	900	900	0
3/14/2025 21:11	43802	SWIL_T1	0	0	0	0	0	0	-0.28	-0.31	1	1	0	600	600	0
3/14/2025 21:11	61103	BERK_T5	3	25	22	0.1	0.12	0.02	-0.01	-0.01	0	0	0	0	0	0
3/14/2025 21:11	60201	ATGL_T2	1	17	16	0.1	0.14	0.04	-0.17	-0.17	0	0	0	0	0	0
3/14/2025 21:11	27201	YATE_T1	10	10	0	6.19	5.89	-0.3	-1.44	-1.48	0	0	0	0	0	0
3/14/2025 21:11	61301	EARL_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
3/14/2025 21:11	48303	ORWI_T2	25	31	6	0.49	0.62	0.13	0.4	0.42	0	0	0	0	0	0
3/14/2025 21:11	61101	BERK_T5	2	3	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
3/14/2025 21:11	43801	SWIL_T1	2	3	1	3.15	2.2	-0.95	0	0	0	0	0	0	0	0
3/14/2025 21:11	16102	BING_T2	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
3/14/2025 21:11	67203	TEHI_T1	0	0	0	0	0	0	1.13	1.04	0	0	0	0	0	0
3/14/2025 21:11	63305	GREE_T1	0	0	0	0	0	0	-1.48	-1.5	0	0	0	0	0	0
3/14/2025 21:11	21402	EXET_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 21:11	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:11	13303	ORVI_T1	0	0	0	0	0	0	0.77	0.73	0	0	0	0	0	0
3/14/2025 21:11	65702	RVIL_T2	0	0	0	0	0	0	-2.16	-2.19	0	0	0	0	0	0
3/14/2025 21:11	14801	TREI_T2	50	3	-47	0.19	0.13	-0.06	0	0	0	0	0	0	0	0
3/14/2025 21:11	10805	CHHI_T2	1	1	0	7.7	7.6	-0.1	-1.12	-1.15	0	0	0	0	0	0
3/14/2025 21:11	67502	WEWI_T2	3	53	50	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/14/2025 21:11	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:11	61303	EARL_T1	0	0	0	0	0	0	0.25	0.23	0	0	0	0	0	0
3/14/2025 21:11	20403	ASHF_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/14/2025 21:11	20401	ASHF_T2	6	1	-5	0.37	0.1	-0.27	0	0	0	0	0	0	0	0
3/14/2025 21:11	23401	HONE_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
3/14/2025 21:11	15702	TANN_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
3/14/2025 21:11	46001	BERW_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
3/14/2025 21:11	20603	GRWO_T2	0	0	0	0	0	0	0.29	0.29	0	0	0	0	0	0
3/14/2025 21:11	23901	ERMO_T2	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
3/14/2025 21:11	44701	MUNC_T2	53	97	44	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/14/2025 21:11	14802	TREI_T2	5	3	-2	0.32	0.1	-0.22	0.28	0.29	0	0	0	0	0	0
3/14/2025 21:11	14802	TREI_T2	5	3	-2	0.32	0.1	-0.22	0.28	0.29	0	0	0	0	0	0
3/14/2025 21:11	14802	TREI_T2	5	3	-2	0.32	0.1	-0.22	0.28	0.29	0	0	0	0	0	0
3/14/2025 21:11	14802	TREI_T2	5	3	-2	0.32	0.1	-0.22	0.28	0.29	0	0	0	0	0	0
3/14/2025 21:11	63306	GREE_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
3/14/2025 21:11	63501	HEID_TBK1-2	24	34	10	0.23	0.25	0.02	0.34	0.26	0	0	0	0	0	0
3/14/2025 21:11	44802	EDAN_T2	0	0	0	0	0	0	-1.02	-1.08	0	0	0	0	0	0
3/14/2025 21:11	61102	BERK_T5	1	1	0	0.4	0.4	0	-0.23	-0.36	3	3	0	900	900	0
3/14/2025 21:11	21403	EXET_T2	0	0	0	0	0	0	-1.42	-1.42	0	0	0	0	0	0
3/14/2025 21:11	44702	MUNC_T2	1	3	2	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
3/14/2025 21:11	66502	SMAN_T2	0	0	0	0	0	0	-0.27	-0.19	0	0	0	0	0	0
3/14/2025 21:11	48302	ORWI_T2	2	12	10	9.1	1.94	-7.16	-0.28	-0.32	0	0	0	0	0	0
3/14/2025 21:11	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:11	41301	FISH_T1	1	5	4	0.7	0.34	-0.36	-0.42	-0.43	0	0	0	0	0	0
3/14/2025 21:11	63601	LETO_T1	0	0	0	0	0	0	0.65	0.87	1	1	0	900	900	0
3/14/2025 21:11	21206	ECAR_T2	1	1	0	7.3	7.3	0	1.14	1.2	0	0	0	0	0	0
3/14/2025 21:11	63602	LETO_T1	0	1	1	0	1.1	1.1	-1.1	-1.3	0	0	0	0	0	0
3/14/2025 21:12	11301	EMMA_T1	0	0	0	0	0	0	-0.94	-0.98	0	0	0	0	0	0
3/14/2025 21:12	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:12	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
3/14/2025 21:12	43302	WATS_T2	4	2	-2	0.15	0.15	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/14/2025 21:12	43301	WATS_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/14/2025 21:12	44701	MUNC_T2	53	97	44	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/14/2025 21:12	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:12	21703	SUBU_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
3/14/2025 21:12	10101	ALLE_T3	2	2	0	4.75	6.2	1.45	0	0	0	0	0	0	0	0
3/14/2025 21:12	57401	SPAN_T1	2	2	0	0.45	0.55	0.1	0.35	0.3	0	0	0	0	0	0
3/14/2025 21:12	15702	TANN_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
3/14/2025 21:12	15203	SFAR_T2	0	0	0	0	0	0	-2.88	-2.86	0	0	0	0	0	0
3/14/2025 21:12	16201	POFA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:12	47104	MARL_T1	0	0	0	0	0	0	-1.02	-1	0	0	0	0	0	0
3/14/2025 21:12	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:12	44702	MUNC_T2	1	3	2	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
3/14/2025 21:12	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.09	0	0	0	0	0	0
3/14/2025 21:12	17805	GILB_T2	0	0	0	0	0	0	-0.48	-0.52	0	0	0	0	0	0
3/14/2025 21:12	10705	CATA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:12	44802	EDAN_T2	0	0	0	0	0	0	-1.02	-1.08	0	0	0	0	0	0
3/14/2025 21:12	21701	SUBU_T1	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
3/14/2025 21:12	44703	MUNC_T2	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0
3/14/2025 21:12	15204	SFAR_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
3/14/2025 21:12	20601	GRWO_T2	0	0	0	0	0	0	-0.6	-0.52	0	0	0	0	0	0
3/14/2025 21:12	60201	ATGL_T2	1	17	16	0.1	0.14	0.04	-0.17	-0.17	0	0	0	0	0	0
3/14/2025 21:12	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
3/14/2025 21:12	61102	BERK_T5	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/14/2025 21:12	67603	WARW_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
3/14/2025 21:12	42501	ALTA_T2	0	0	0	0	0	0	1.28	1.1	0	0	0	0	0	0
3/14/2025 21:12	16103	BING_T2	0	0	0	0	0	0	-0.61	-0.61	1	1	0	900	900	0
3/14/2025 21:12	14802	TREI_T2	5	3	-2	0.32	0.1	-0.22	0	0	0	0	0	0	0	0
3/14/2025 21:12	10702	CATA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:12	67401	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:12	67605	WARW_T1	15	16	1	0.49	0.46	-0.03	-1.02	-0.97	0	0	0	0	0	0
3/14/2025 21:12	16302	ALPA_T2	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
3/14/2025 21:12	61103	BERK_T5	3	25	22	0.1	0.12	0.02	-0.01	-0.01	0	0	0	0	0	0
3/14/2025 21:12	61101	BERK_T5	2	3	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
3/14/2025 21:12	21705	SUBU_T1	1	1	0	5	5.3	0.3	0	0	0	0	0	0	0	0
3/14/2025 21:12	13103	NHAM_T2	0	0	0	0	0	0	-1.8	-1.81	1	1	0	600	600	0
3/14/2025 21:12	10805	CHHI_T2	1	1	0	7.7	7.6	-0.1	-1.12	-1.15	0	0	0	0	0	0
3/14/2025 21:12	42701	AUGU_T1	1	1	0	0.8	1	0.2	0	0	2	2	0	1800	1800	0
3/14/2025 21:12	61306	EARL_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
3/14/2025 21:12	15201	SFAR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:12	61304	EARL_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
3/14/2025 21:12	22101	EDEL_T2	0	0	0	0	0	0	0.29	0.3	1	1	0	1200	1200	0
3/14/2025 21:12	66505	SMAN_T2	3	3	0	1.27	1.4	0.13	0	0	0	0	0	0	0	0
3/14/2025 21:12	47101	MARL_T1	1	1	0	1.1	0.1	-1	0	0	0	0	0	0	0	0
3/14/2025 21:12	14801	TREI_T2	50	3	-47	0.19	0.13	-0.06	0.31	0.3	0	0	0	0	0	0
3/14/2025 21:12	60404	DILL_T2	1	0	-1	4.9	0	-4.9	0.24	0.29	0	0	0	0	0	0
3/14/2025 21:13	15203	SFAR_T2	0	0	0	0	0	0	-4.31	-4.29	0	0	0	0	0	0
3/14/2025 21:13	61306	EARL_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
3/14/2025 21:13	41205	KENM_T2	0	0	0	0	0	0	-0.12	-0.12	0	0	0	0	0	0
3/14/2025 21:13	61802	EELI_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
3/14/2025 21:13	65901	SAKR_T2	0	0	0	0	0	0	-1.46	-1.54	1	1	0	900	900	0
3/14/2025 21:13	61801	EELI_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/14/2025 21:13	41201	KENM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 21:13	10801	CHHI_T1	0	0	0	0	0	0	-1.08	-1.09	1	1	0	900	900	0
3/14/2025 21:13	67605	WARW_T1	15	16	1	0.49	0.46	-0.03	0	0	0	0	0	0	0	0
3/14/2025 21:13	41202	KENM_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/14/2025 21:13	11302	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:13	61302	EARL_T1	0	0	0	0	0	0	-0.02	-0.08	1	1	0	1200	1200	0
3/14/2025 21:13	24103	EHAZ_T1	0	0	0	0	0	0	-0.5	-0.46	0	0	0	0	0	0
3/14/2025 21:13	24102	EHAZ_T1	1	5	4	1.7	0.5	-1.2	0	0	0	0	0	0	0	0
3/14/2025 21:13	65902	SAKR_T2	1	2	1	3.3	0	-3.3	0	0	0	0	0	0	0	0
3/14/2025 21:13	13103	NHAM_T2	0	0	0	0	0	0	-1.8	-1.81	1	1	0	600	600	0
3/14/2025 21:13	66504	SMAN_T2	0	0	0	0	0	0	-2.03	-1.96	0	0	0	0	0	0
3/14/2025 21:13	24105	EHAZ_T1	4	4	0	6.58	6	-0.58	0	0	0	0	0	0	0	0
3/14/2025 21:13	61102	BERK_T5	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/14/2025 21:13	52502	PROG_T2	0	0	0	0	0	0	-0.73	-0.74	1	1	0	900	900	0
3/14/2025 21:13	66505	SMAN_T2	3	3	0	1.27	1.4	0.13	-0.46	-0.43	1	1	0	900	900	0
3/14/2025 21:13	20401	ASHF_T2	6	1	-5	0.37	0.1	-0.27	0.19	0.25	0	0	0	0	0	0
3/14/2025 21:13	23401	HONE_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
3/14/2025 21:13	45501	DERR_T2	1	1	0	0.1	0.5	0.4	0.04	-0.1	1	1	0	600	600	0
3/14/2025 21:13	43202	MVIL_T2	57	82	25	0.5	0.66	0.16	-0.77	-0.74	0	0	0	0	0	0
3/14/2025 21:13	61101	BERK_T5	2	3	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
3/14/2025 21:13	46002	BERW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:13	24101	EHAZ_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/14/2025 21:13	46004	BERW_T2	0	1	1	0	0.1	0.1	-0.94	-0.89	0	0	0	0	0	0
3/14/2025 21:13	61103	BERK_T5	3	25	22	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/14/2025 21:13	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:13	16402	MOPO_T1	2	0	-2	0.2	0	-0.2	-0.36	-0.22	0	0	0	0	0	0
3/14/2025 21:13	15601	NSTR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 21:13	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:14	40201	BEGA_T2	7	12	5	0.31	0.44	0.13	0	0	0	0	0	0	0	0
3/14/2025 21:14	10702	CATA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:14	41202	KENM_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/14/2025 21:14	43506	WWIL_T1	1	1	0	1.6	1.7	0.1	0	0	0	0	0	0	0	0
3/14/2025 21:14	15702	TANN_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
3/14/2025 21:14	55002	NEWP_T1	4	4	0	0.88	1.05	0.17	0	0	0	0	0	0	0	0
3/14/2025 21:14	66502	SMAN_T2	0	0	0	0	0	0	-0.14	-0.09	0	0	0	0	0	0
3/14/2025 21:14	67203	TEHI_T1	0	0	0	0	0	0	1.13	1.04	0	0	0	0	0	0
3/14/2025 21:14	54203	PENN_T1	18	18	0	0.76	1.04	0.28	-0.11	-0.12	0	0	0	0	0	0
3/14/2025 21:14	20401	ASHF_T2	6	1	-5	0.37	0.1	-0.27	0	0	0	0	0	0	0	0
3/14/2025 21:14	61101	BERK_T5	2	3	1	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
3/14/2025 21:14	16302	ALPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:14	61103	BERK_T5	3	25	22	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/14/2025 21:14	66505	SMAN_T2	3	3	0	1.27	1.4	0.13	0	0	0	0	0	0	0	0
3/14/2025 21:14	24001	WIBA_T1	0	0	0	0	0	0	0.84	0.82	0	0	0	0	0	0
3/14/2025 21:14	67401	WAKE_T2	0	0	0	0	0	0	-1.08	-0.98	0	0	0	0	0	0
3/14/2025 21:14	10705	CATA_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
3/14/2025 21:14	46602	LACR_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
3/14/2025 21:14	61102	BERK_T5	1	1	0	0.4	0.4	0	-0.08	-0.12	1	1	0	300	300	0
3/14/2025 21:14	15602	NSTR_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
3/14/2025 21:14	43504	WWIL_T1	7	9	2	0.21	0.32	0.11	0.47	0.48	0	0	0	0	0	0
3/14/2025 21:14	60903	DONG_T2	0	0	0	0	0	0	0.84	0.7	1	1	0	600	600	0
3/14/2025 21:14	63806	GREE_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
3/14/2025 21:14	46903	MNTG_T2	0	0	0	0	0	0	-0.79	-0.77	1	1	0	600	600	0
3/14/2025 21:14	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:14	15601	NSTR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 21:14	43505	WWIL_T1	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:14	15703	TANN_T2	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
3/14/2025 21:14	60404	DILL_T2	1	0	-1	4.9	0	-4.9	0.24	0.29	0	0	0	0	0	0
3/14/2025 21:14	61001	DONV_T1	0	0	0	0	0	0	-0.19	-0.16	0	0	0	0	0	0
3/14/2025 21:14	64204	KINZ_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:14	42903	MIDD_T2	2	2	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
3/14/2025 21:14	42902	MIDD_T2	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
3/14/2025 21:14	43801	SWIL_T1	2	3	1	3.15	2.2	-0.95	0	0	0	0	0	0	0	0
3/14/2025 21:14	15204	SFAR_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
3/14/2025 21:14	65702	RVIL_T2	0	0	0	0	0	0	-1.08	-1.1	0	0	0	0	0	0
3/14/2025 21:14	44702	MUNC_T2	1	3	2	0.3	0.17	-0.13	0	0	0	0	0	0	0	0
3/14/2025 21:14	54201	PENN_T1	10	10	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/14/2025 21:14	64201	KINZ_T1	0	1	1	0	0.3	0.3	0.52	0.56	2	2	0	600	600	0
3/14/2025 21:14	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:14	44802	EDAN_T2	0	0	0	0	0	0	-1.02	-1.08	0	0	0	0	0	0
3/14/2025 21:14	63804	HEMP_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
3/14/2025 21:14	45303	WBER_T2	9	9	0	1.24	1.47	0.23	-0.42	-0.45	0	0	0	0	0	0
3/14/2025 21:14	43802	SWIL_T1	0	0	0	0	0	0	-0.28	-0.31	1	1	0	600	600	0
3/14/2025 21:14	55001	NEWP_T1	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
3/14/2025 21:14	47101	MARL_T1	1	1	0	1.1	0.1	-1	-2.58	-2.68	0	0	0	0	0	0
3/14/2025 21:14	63802	HEMP_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
3/14/2025 21:14	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:14	41201	KENM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 21:14	61304	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:14	42701	AUGU_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:14	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:14	10801	CHHI_T1	0	0	0	0	0	0	-1.08	-1.09	1	1	0	900	900	0
3/14/2025 21:14	50701	SMEC_T1	0	0	0	0	0	0	0.19	0.14	0	0	0	0	0	0
3/14/2025 21:14	24004	WIBA_T1	3	14	11	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
3/14/2025 21:14	20403	ASHF_T2	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/14/2025 21:14	44701	MUNC_T2	53	97	44	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/14/2025 21:14	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
3/14/2025 21:14	13103	NHAM_T2	0	0	0	0	0	0	-1.8	-1.81	1	1	0	600	600	0
3/14/2025 21:15	66505	SMAN_T2	3	3	0	1.2	1.47	0.27	-0.92	-0.87	2	2	0	1800	1800	0
3/14/2025 21:15	20601	GRWO_T2	0	0	0	0	0	0	-0.3	-0.26	0	0	0	0	0	0
3/14/2025 21:15	66504	SMAN_T2	0	0	0	0	0	0	-0.68	-0.65	0	0	0	0	0	0
3/14/2025 21:15	62101	ELAN_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/14/2025 21:15	63306	GREE_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
3/14/2025 21:15	57201	ROSS_T1	10	17	7	0.19	0.21	0.02	0	0	0	0	0	0	0	0
3/14/2025 21:15	67605	WARW_T1	15	20	5	0.43	0.44	0.01	-1.02	-0.97	0	0	0	0	0	0
3/14/2025 21:15	21203	ECAR_T1	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
3/14/2025 21:15	60801	BUCK_T1	27	19	-8	0.16	0.12	-0.04	-0.31	-0.28	0	0	0	0	0	0
3/14/2025 21:15	57203	ROSS_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
3/14/2025 21:15	61301	EARL_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
3/14/2025 21:15	41301	FISH_T1	5	8	3	0.34	0.5	0.16	0	0	0	0	0	0	0	0
3/14/2025 21:15	21705	SUBU_T1	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
3/14/2025 21:15	64902	MILL_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
3/14/2025 21:15	15203	SFAR_T2	0	0	0	0	0	0	-2.88	-2.86	0	0	0	0	0	0
3/14/2025 21:15	60201	ATGL_T2	16	23	7	0.14	0.14	0	0	0	0	0	0	0	0	0
3/14/2025 21:15	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:15	21704	SUBU_T1	0	0	0	0	0	0	-1.35	-1.35	1	1	0	1200	1200	0
3/14/2025 21:15	54601	SUMM_T2	7	8	1	0.29	0.4	0.11	0	0	0	0	0	0	0	0
3/14/2025 21:15	62106	ELAN_T1	11	53	42	0.14	0.15	0.01	0	0	0	0	0	0	0	0
3/14/2025 21:15	61101	BERK_T5	2	8	6	0.25	0.19	-0.06	0	0	0	0	0	0	0	0
3/14/2025 21:15	45303	WBER_T2	9	9	0	1.4	1.51	0.11	0	0	0	0	0	0	0	0
3/14/2025 21:15	42903	MIDD_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/14/2025 21:15	21701	SUBU_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
3/14/2025 21:15	46203	DANV_T2	7	21	14	0.13	0.15	0.02	0.04	0.03	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/14/2025 21:15	15703	TANN_T2	1	1	0	5.3	5	-0.3	0	0	0	0	0	0	0	0
3/14/2025 21:15	46302	ROHR_T1	3	4	1	1.4	1.43	0.03	0.08	0.09	0	0	0	0	0	0
3/14/2025 21:15	42902	MIDD_T2	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
3/14/2025 21:15	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:15	62105	ELAN_T1	29	87	58	0.11	0.14	0.03	0.35	0.35	0	0	0	0	0	0
3/14/2025 21:15	44901	SCOT_T2	40	140	100	0.19	0.23	0.04	0.02	-0.14	0	0	0	0	0	0
3/14/2025 21:15	60803	BUCK_T1	8	5	-3	0.11	0.16	0.05	0	0	0	0	0	0	0	0
3/14/2025 21:15	63305	GREE_T1	0	0	0	0	0	0	-1.48	-1.5	0	0	0	0	0	0
3/14/2025 21:15	24201	PROV_T3	4	9	5	4.23	1.87	-2.36	-0.2	-0.2	0	0	0	0	0	0
3/14/2025 21:15	48301	ORWI_T1	3	4	1	3.9	3.03	-0.87	0.16	0.13	0	0	0	0	0	0
3/14/2025 21:15	45302	WBER_T2	0	0	0	0	0	0	0.56	0.51	0	0	0	0	0	0
3/14/2025 21:15	40101	HUNT_T2	0	0	0	0	0	0	-1.85	-1.86	0	0	0	0	0	0
3/14/2025 21:15	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
3/14/2025 21:15	61102	BERK_T5	1	1	0	0.2	0.4	0.2	-0.15	-0.24	2	2	0	600	600	0
3/14/2025 21:15	24205	PROV_T3	4	17	13	0.17	0.24	0.07	0	0	0	0	0	0	0	0
3/14/2025 21:15	23403	HONE_T1	1	0	-1	7.2	0	-7.2	0	0	0	0	0	0	0	0
3/14/2025 21:15	46001	BERW_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
3/14/2025 21:15	46301	ROHR_T1	57	149	92	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
3/14/2025 21:15	10801	CHHI_T1	0	0	0	0	0	0	-1.08	-1.09	1	1	0	900	900	0
3/14/2025 21:15	46506	LOHA_T1	3	3	0	5	5.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:15	61103	BERK_T5	2	51	49	0.1	0.13	0.03	-0.01	-0.01	0	0	0	0	0	0
3/14/2025 21:15	46502	LOHA_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
3/14/2025 21:15	44902	SCOT_T2	752	757	5	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/14/2025 21:15	15702	TANN_T2	0	0	0	0	0	0	-0.5	-0.5	0	0	0	0	0	0
3/14/2025 21:15	24204	PROV_T3	48	84	36	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
3/14/2025 21:15	46504	LOHA_T1	0	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0
3/14/2025 21:15	45501	DERR_T2	1	1	0	0.3	0.5	0.2	0.08	-0.19	2	2	0	1200	1200	0
3/14/2025 21:15	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:15	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:16	48303	ORWI_T2	25	31	6	0.58	0.64	0.06	0.4	0.42	0	0	0	0	0	0
3/14/2025 21:16	46506	LOHA_T1	3	3	0	5	5.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:16	46503	LOHA_T1	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
3/14/2025 21:16	10707	CATA_T2	0	0	0	0	0	0	0.33	0.37	0	0	0	0	0	0
3/14/2025 21:16	15204	SFAR_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
3/14/2025 21:16	10702	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/14/2025 21:16	54506	ENOL_T2	0	0	0	0	0	0	-0.12	-0.09	1	0	-1	600	0	-600
3/14/2025 21:16	44801	EDAN_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
3/14/2025 21:16	62101	ELAN_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/14/2025 21:16	52202	DEVO_T2	0	0	0	0	0	0	-0.83	-0.85	0	0	0	0	0	0
3/14/2025 21:16	24102	EHAZ_T1	1	6	5	2	0.4	-1.6	0	0	0	0	0	0	0	0
3/14/2025 21:16	62106	ELAN_T1	11	53	42	0.14	0.15	0.01	0	0	0	0	0	0	0	0
3/14/2025 21:16	14801	TREI_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/14/2025 21:16	42401	GIMA_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/14/2025 21:16	46504	LOHA_T1	0	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0
3/14/2025 21:16	44701	MUNC_T2	79	169	90	0.18	0.29	0.11	-2.98	-2.96	0	0	0	0	0	0
3/14/2025 21:16	24101	EHAZ_T1	0	4	4	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:16	66505	SMAN_T2	3	3	0	1.2	1.47	0.27	0	0	0	0	0	0	0	0
3/14/2025 21:16	61102	BERK_T5	1	1	0	0.2	0.4	0.2	-0.15	-0.24	2	2	0	600	600	0
3/14/2025 21:16	14602	SWHI_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/14/2025 21:16	15203	SFAR_T2	0	0	0	0	0	0	-2.88	-2.86	0	0	0	0	0	0
3/14/2025 21:16	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/14/2025 21:16	43801	SWIL_T1	3	5	2	2.2	1.38	-0.82	0	0	0	0	0	0	0	0
3/14/2025 21:16	40902	JESH_T1	0	0	0	0	0	0	-1.88	-1.9	0	0	0	0	0	0
3/14/2025 21:16	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:16	67601	WARW_T2	0	0	0	0	0	0	-0.62	-0.68	0	0	0	0	0	0
3/14/2025 21:16	62105	ELAN_T1	29	87	58	0.11	0.14	0.03	0.35	0.35	0	0	0	0	0	0
3/14/2025 21:16	24105	EHAZ_T1	4	4	0	6.25	6.03	-0.22	0	0	0	0	0	0	0	0
3/14/2025 21:16	47103	MARL_T2	56	65	9	0.3	0.36	0.06	-0.65	-0.64	0	0	0	0	0	0
3/14/2025 21:16	11301	EMMA_T1	0	0	0	0	0	0	-0.94	-0.98	0	0	0	0	0	0
3/14/2025 21:16	43402	BENT_T1	19	61	42	0.19	0.2	0.01	-1.06	-1.07	1	1	0	900	900	0
3/14/2025 21:16	23502	GEOR_T1	0	0	0	0	0	0	-0.34	-0.33	0	0	0	0	0	0
3/14/2025 21:16	44802	EDAN_T2	0	0	0	0	0	0	-1.02	-1.08	0	0	0	0	0	0
3/14/2025 21:16	46301	ROHR_T1	57	149	92	0.29	0.27	-0.02	0.22	0.24	0	0	0	0	0	0
3/14/2025 21:16	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:16	66504	SMAN_T2	0	0	0	0	0	0	-0.68	-0.65	0	0	0	0	0	0
3/14/2025 21:16	61101	BERK_T5	2	8	6	0.25	0.19	-0.06	0	0	0	0	0	0	0	0
3/14/2025 21:16	46203	DANV_T2	7	21	14	0.13	0.15	0.02	0.08	0.06	0	0	0	0	0	0
3/14/2025 21:16	44702	MUNC_T2	1	13	12	0.3	0.14	-0.16	0	0	0	0	0	0	0	0
3/14/2025 21:16	55003	NEWP_T2	0	2	2	0	0.1	0.1	-0.23	-0.27	0	0	0	0	0	0
3/14/2025 21:16	45801	HEGI_T1	0	0	0	0	0	0	-0.6	-0.58	1	1	0	900	900	0
3/14/2025 21:16	10805	CHHI_T2	1	1	0	7.7	7.6	-0.1	-1.12	-1.15	0	0	0	0	0	0
3/14/2025 21:16	48302	ORWI_T2	6	19	13	3.17	1.09	-2.08	0	0	0	0	0	0	0	0
3/14/2025 21:16	42903	MIDD_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/14/2025 21:16	44301	BEAV_T2	0	0	0	0	0	0	-0.54	-0.4	1	1	0	600	600	0
3/14/2025 21:16	42902	MIDD_T2	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
3/14/2025 21:16	47102	MARL_T2	24	42	18	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
3/14/2025 21:16	55002	NEWP_T1	4	5	1	1.05	0.88	-0.17	0	0	0	0	0	0	0	0
3/14/2025 21:16	45502	DERR_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
3/14/2025 21:16	61304	EARL_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
3/14/2025 21:16	23901	EFMO_T2	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
3/14/2025 21:16	55001	NEWP_T1	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
3/14/2025 21:16	61103	BERK_T5	2	51	49	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/14/2025 21:16	43202	MVIL_T2	82	80	-2	0.65	0.7	0.05	-0.77	-0.74	0	0	0	0	0	0
3/14/2025 21:16	52502	PROG_T2	0	0	0	0	0	0	-0.73	-0.74	1	1	0	900	900	0
3/14/2025 21:16	20601	GRWO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:16	24104	EHAZ_T1	0	0	0	0	0	0	-2.27	-2.26	1	1	0	1200	1200	0
3/14/2025 21:16	46602	LACR_T1	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
3/14/2025 21:16	16302	ALPA_T2	0	0	0	0	0	0	0.51	0.52	0	0	0	0	0	0
3/14/2025 21:16	57401	SPAN_T1	2	2	0	0.55	0.45	-0.1	0.7	0.6	0	0	0	0	0	0
3/14/2025 21:16	43802	SWIL_T1	0	0	0	0	0	0	-0.28	-0.31	1	1	0	600	600	0
3/14/2025 21:16	46302	ROHR_T1	3	4	1	1.4	1.43	0.03	0	0	0	0	0	0	0	0
3/14/2025 21:16	14802	TREI_T2	0	3	3	0	0.1	0.1	0.28	0.29	0	0	0	0	0	0
3/14/2025 21:16	45501	DERR_T2	1	1	0	0.3	0.5	0.2	0.04	-0.1	1	1	0	600	600	0
3/14/2025 21:16	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	-1.38	-1.36	1	1	0	600	600	0
3/14/2025 21:16	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0.02	0.01	0	0	0	0	0	0
3/14/2025 21:16	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:17	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:17	61102	BERK_T5	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:17	10702	CATA_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/14/2025 21:17	64201	KINZ_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:17	16201	POFA_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:17	66504	SMAN_T2	0	0	0	0	0	0	-0.68	-0.65	0	0	0	0	0	0
3/14/2025 21:17	52401	GRPA_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
3/14/2025 21:17	60803	BUCK_T1	8	5	-3	0.11	0.16	0.05	0	0	0	0	0	0	0	0
3/14/2025 21:17	65702	RVIL_T2	0	0	0	0	0	0	-2.16	-2.19	0	0	0	0	0	0
3/14/2025 21:17	57401	SPAN_T1	2	2	0	0.55	0.45	-0.1	0.7	0.6	0	0	0	0	0	0
3/14/2025 21:17	43301	WATS_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/14/2025 21:17	46903	MNTG_T2	0	0	0	0	0	0	-0.79	-0.77	1	1	0	600	600	0
3/14/2025 21:17	15203	SFAR_T2	0	0	0	0	0	0	-1.44	-1.43	0	0	0	0	0	0
3/14/2025 21:17	43802	SWIL_T1	0	0	0	0	0	0	-0.28	-0.31	1	1	0	600	600	0
3/14/2025 21:17	55003	NEWP_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 21:17	43302	WATS_T2	2	3	1	0.15	0.17	0.02	0	0	0	0	0	0	0	0
3/14/2025 21:17	16203	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:17	61103	BERK_T5	2	51	49	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/14/2025 21:17	24205	PROV_T3	4	17	13	0.17	0.24	0.07	0	0	0	0	0	0	0	0
3/14/2025 21:17	47401	PENS_T1	1	0	-1	0.1	0	-0.1	0.6	0.61	0	0	0	0	0	0
3/14/2025 21:17	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
3/14/2025 21:17	17805	GILB_T2	0	0	0	0	0	0	-0.24	-0.26	0	0	0	0	0	0
3/14/2025 21:17	23901	EFMO_T2	0	0	0	0	0	0	-0.36	-0.35	0	0	0	0	0	0
3/14/2025 21:17	64202	KINZ_T1	0	0	0	0	0	0	0.22	0.23	0	0	0	0	0	0
3/14/2025 21:17	46302	ROHR_T1	3	4	1	1.4	1.43	0.03	0	0	0	0	0	0	0	0
3/14/2025 21:17	52502	PROG_T2	0	0	0	0	0	0	-0.73	-0.74	1	1	0	900	900	0
3/14/2025 21:17	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	-1.38	-1.36	1	1	0	600	600	0
3/14/2025 21:17	57205	ROSS_T1	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
3/14/2025 21:17	63306	GREE_T1	0	0	0	0	0	0	-0.6	-0.59	0	0	0	0	0	0
3/14/2025 21:17	15204	SFAR_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
3/14/2025 21:17	57203	ROSS_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
3/14/2025 21:17	53903	HALI_T2	2	2	0	1.5	1.5	0	0	0	0	0	0	0	0	0
3/14/2025 21:17	42701	AUGU_T1	1	1	0	1	0.9	-0.1	0	0	2	2	0	1800	1800	0
3/14/2025 21:17	57201	ROSS_T1	10	17	7	0.19	0.21	0.02	-0.65	-0.63	0	0	0	0	0	0
3/14/2025 21:17	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/14/2025 21:17	52402	GRPA_T2	3	3	0	0.73	0.87	0.14	0	0	0	0	0	0	0	0
3/14/2025 21:17	46301	ROHR_T1	57	149	92	0.29	0.27	-0.02	0.11	0.12	0	0	0	0	0	0
3/14/2025 21:17	27201	YATE_T1	10	10	0	6.07	5.81	-0.26	-1.44	-1.48	0	0	0	0	0	0
3/14/2025 21:17	53901	HALI_T2	1	1	0	0.7	0.9	0.2	-2	-2.1	0	0	0	0	0	0
3/14/2025 21:17	63801	GREE_T1	0	0	0	0	0	0	-1.48	-1.5	0	0	0	0	0	0
3/14/2025 21:17	43202	MVIL_T2	82	80	-2	0.65	0.7	0.05	-0.77	-0.74	0	0	0	0	0	0
3/14/2025 21:17	66505	SMAN_T2	3	3	0	1.2	1.47	0.27	0	0	0	0	0	0	0	0
3/14/2025 21:17	42902	MIDD_T2	0	0	0	0	0	0	-0.77	-0.77	0	0	0	0	0	0
3/14/2025 21:17	13303	ORVI_T1	0	0	0	0	0	0	0.77	0.73	0	0	0	0	0	0
3/14/2025 21:17	66502	SMAN_T2	0	0	0	0	0	0	-0.41	-0.28	0	0	0	0	0	0
3/14/2025 21:17	45502	DERR_T2	0	0	0	0	0	0	-0.56	-0.56	0	0	0	0	0	0
3/14/2025 21:17	46001	BERW_T1	0	0	0	0	0	0	1.28	1.23	0	0	0	0	0	0
3/14/2025 21:17	43801	SWIL_T1	3	5	2	2.2	1.38	-0.82	0	0	0	0	0	0	0	0
3/14/2025 21:17	10705	CATA_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
3/14/2025 21:17	10705	CATA_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
3/14/2025 21:17	10705	CATA_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
3/14/2025 21:17	10705	CATA_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
3/14/2025 21:17	54601	SUMM_T2	7	8	1	0.29	0.4	0.11	0	0	0	0	0	0	0	0
3/14/2025 21:17	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:17	42903	MIDD_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/14/2025 21:17	20601	GRWO_T2	0	0	0	0	0	0	-0.3	-0.26	0	0	0	0	0	0
3/14/2025 21:17	61101	BERK_T5	2	8	6	0.25	0.19	-0.06	0	-0.5	0	0	0	0	0	0
3/14/2025 21:17	24201	PROV_T3	4	9	5	4.23	1.87	-2.36	-0.2	-0.2	0	0	0	0	0	0
3/14/2025 21:17	64204	KINZ_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
3/14/2025 21:17	45303	WBER_T2	9	9	0	1.4	1.51	0.11	-0.42	-0.45	0	0	0	0	0	0
3/14/2025 21:17	67605	WARW_T1	15	20	5	0.43	0.44	0.01	-1.02	-0.97	0	0	0	0	0	0
3/14/2025 21:17	53902	HALI_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/14/2025 21:17	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:17	24204	PROV_T3	48	84	36	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
3/14/2025 21:17	67601	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:17	45501	DERR_T2	1	1	0	0.3	0.5	0.2	0.11	-0.29	3	3	0	1800	1800	0
3/14/2025 21:17	61001	DONV_T1	0	0	0	0	0	0	-0.38	-0.32	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/14/2025 21:17	60801	BUCK_T1	27	19	-8	0.16	0.12	-0.04	-0.31	-0.28	0	0	0	0	0	0
3/14/2025 21:17	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.12	0	0	0	0	0	0
3/14/2025 21:18	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:18	46902	MNTG_T2	0	0	0	0	0	0	-0.56	-0.56	1	1	0	600	600	0
3/14/2025 21:18	40101	HUNT_T2	0	0	0	0	0	0	-3.7	-3.72	0	0	0	0	0	0
3/14/2025 21:18	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
3/14/2025 21:18	47201	FAXO_T2	0	0	0	0	0	0	-2.33	-2.34	1	1	0	1200	1200	0
3/14/2025 21:18	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/14/2025 21:18	54601	SUMM_T2	7	8	1	0.29	0.4	0.11	-1.93	-1.94	2	2	0	2100	2100	0
3/14/2025 21:18	52001	LING_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
3/14/2025 21:18	62105	ELAN_T1	29	87	58	0.11	0.14	0.03	0.35	0.35	0	0	0	0	0	0
3/14/2025 21:18	18001	ZION_T1	2	2	0	9.3	9.4	0.1	0	0	0	0	0	0	0	0
3/14/2025 21:18	61101	BERK_T5	2	8	6	0.25	0.19	-0.06	0	0	0	0	0	0	0	0
3/14/2025 21:18	57201	ROSS_T1	10	17	7	0.19	0.21	0.02	-0.65	-0.63	0	0	0	0	0	0
3/14/2025 21:18	42903	MIDD_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/14/2025 21:18	61103	BERK_T5	2	51	49	0.1	0.13	0.03	-0.01	-0.01	0	0	0	0	0	0
3/14/2025 21:18	50701	SMEC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:18	15204	SFAR_T2	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
3/14/2025 21:18	52403	GRPA_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
3/14/2025 21:18	44801	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:18	43402	BENT_T1	19	61	42	0.19	0.2	0.01	-1.06	-1.07	1	1	0	900	900	0
3/14/2025 21:18	62101	ELAN_T1	1	2	1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/14/2025 21:18	67502	WEWI_T2	47	47	0	0.16	0.17	0.01	0	0	0	0	0	0	0	0
3/14/2025 21:18	42501	ALTA_T2	0	0	0	0	0	0	0.64	0.55	0	0	0	0	0	0
3/14/2025 21:18	61701	ELIZ_T1	1	1	0	5.3	5.6	0.3	0	0	0	0	0	0	0	0
3/14/2025 21:18	53902	HALI_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/14/2025 21:18	57401	SPAN_T1	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
3/14/2025 21:18	41001	LAUR_T2	66	80	14	0.22	0.52	0.3	0	0	0	0	0	0	0	0
3/14/2025 21:18	15203	SFAR_T2	0	0	0	0	0	0	-1.44	-1.43	0	0	0	0	0	0
3/14/2025 21:18	61703	ELIZ_T1	0	0	0	0	0	0	-1.88	-1.96	1	1	0	900	900	0
3/14/2025 21:18	55002	NEWP_T1	4	5	1	1.05	0.88	-0.17	-1.16	-1.16	0	0	0	0	0	0
3/14/2025 21:18	53903	HALI_T2	2	2	0	1.5	1.5	0	-0.18	-0.17	0	0	0	0	0	0
3/14/2025 21:18	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:18	48303	ORWI_T2	25	31	6	0.58	0.64	0.06	0	0	0	0	0	0	0	0
3/14/2025 21:18	44301	BEAV_T2	0	0	0	0	0	0	-0.54	-0.4	1	1	0	600	600	0
3/14/2025 21:18	57203	ROSS_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
3/14/2025 21:18	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:18	64204	KINZ_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
3/14/2025 21:18	62102	ELAN_T1	0	0	0	0	0	0	0.56	0.54	0	0	0	0	0	0
3/14/2025 21:18	54503	ENOL_T2	0	0	0	0	0	0	-0.5	-0.5	1	1	0	600	600	0
3/14/2025 21:18	52402	GRPA_T2	3	3	0	0.73	0.87	0.14	0	0	0	0	0	0	0	0
3/14/2025 21:18	57403	SPAN_T1	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
3/14/2025 21:18	62106	ELAN_T1	11	53	42	0.14	0.15	0.01	0	0	0	0	0	0	0	0
3/14/2025 21:18	61102	BERK_T5	1	1	0	0.2	0.4	0.2	-0.08	-0.12	1	1	0	300	300	0
3/14/2025 21:18	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:18	13303	ORVI_T1	0	0	0	0	0	0	0.77	0.73	0	0	0	0	0	0
3/14/2025 21:18	48302	ORWI_T2	6	19	13	3.17	1.09	-2.08	-0.14	-0.16	0	0	0	0	0	0
3/14/2025 21:18	64201	KINZ_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:18	41002	LAUR_T2	44	57	13	0.32	0.5	0.18	0	0	0	0	0	0	0	0
3/14/2025 21:18	53901	HALI_T2	1	1	0	0.7	0.9	0.2	-1	-1.05	0	0	0	0	0	0
3/14/2025 21:18	52202	DEVO_T2	0	0	0	0	0	0	-0.83	-0.85	0	0	0	0	0	0
3/14/2025 21:18	55001	NEWP_T1	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
3/14/2025 21:19	42501	ALTA_T2	0	0	0	0	0	0	0.64	0.55	0	0	0	0	0	0
3/14/2025 21:19	46505	LOHA_T1	0	0	0	0	0	0	-0.36	-0.36	1	1	0	600	600	0
3/14/2025 21:19	40301	TAMA_T3	2	2	0	0.1	0.1	0	0.77	0.74	2	2	0	1800	1800	0
3/14/2025 21:19	57401	SPAN_T1	2	2	0	0.55	0.45	-0.1	0.35	0.3	0	0	0	0	0	0
3/14/2025 21:19	61801	EELI_T2	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/14/2025 21:19	66503	SMAN_T2	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
3/14/2025 21:19	54203	PENN_T1	18	18	0	0.91	1.04	0.13	-0.11	-0.12	0	0	0	0	0	0
3/14/2025 21:19	16702	MACK_T1	0	1	1	0	0	0	-1.07	-1.09	0	0	0	0	0	0
3/14/2025 21:19	57201	ROSS_T1	10	17	7	0.19	0.21	0.02	0	0	0	0	0	0	0	0
3/14/2025 21:19	57402	SPAN_T2	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
3/14/2025 21:19	54201	PENN_T1	10	10	0	0.46	0.6	0.14	0	0	0	0	0	0	0	0
3/14/2025 21:19	54602	SUMM_T2	0	0	0	0	0	0	-4.9	-4.92	2	2	0	1200	1200	0
3/14/2025 21:19	59402	RFLD_T2	0	0	0	0	0	0	-0.97	-0.95	1	1	0	450	450	0
3/14/2025 21:19	61102	BERK_T5	1	1	0	0.2	0.4	0.2	-0.08	-0.12	1	1	0	300	300	0
3/14/2025 21:19	46803	HEPB_T2	0	0	0	0	0	0	0.4	0.42	0	0	0	0	0	0
3/14/2025 21:19	57203	ROSS_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
3/14/2025 21:19	46801	HEPB_T2	2	2	0	0.9	0.95	0.05	0.42	0.43	0	0	0	0	0	0
3/14/2025 21:19	46004	BERW_T2	1	1	0	0.1	0.7	0.6	-0.94	-0.89	0	0	0	0	0	0
3/14/2025 21:19	42903	MIDD_T2	2	2	0	0.5	0.5	0	-0.49	-0.49	0	0	0	0	0	0
3/14/2025 21:19	54601	SUMM_T2	7	8	1	0.29	0.4	0.11	0	0	0	0	0	0	0	0
3/14/2025 21:19	46506	LOHA_T1	3	3	0	5	5.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:19	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:19	40302	TAMA_T3	10	10	0	0.27	0.29	0.02	0	0	0	0	0	0	0	0
3/14/2025 21:19	61103	BERK_T5	2	51	49	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/14/2025 21:19	65702	RVIL_T2	0	0	0	0	0	0	-1.08	-1.1	0	0	0	0	0	0
3/14/2025 21:19	44201	POIN_T1	0	1	1	0	0.1	0.1	-2.32	-2.33	1	1	0	1200	1200	0
3/14/2025 21:19	50701	SMEC_T1	0	0	0	0	0	0	0.19	0.14	0	0	0	0	0	0
3/14/2025 21:19	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:19	61101	BERK_T5	2	8	6	0.25	0.19	-0.06	0	0	0	0	0	0	0	0
3/14/2025 21:19	66505	SMAN_T2	3	3	0	1.2	1.47	0.27	0	0	0	0	0	0	0	0
3/14/2025 21:19	43202	MVIL_T2	82	80	-2	0.65	0.7	0.05	-0.77	-0.74	0	0	0	0	0	0
3/14/2025 21:19	46504	LOHA_T1	0	2	2	0	0.85	0.85	0	0	0	0	0	0	0	0
3/14/2025 21:19	55001	NEWP_T1	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
3/14/2025 21:19	63303	GREE_T1	0	0	0	0	0	0	0.15	0.17	1	1	0	600	600	0
3/14/2025 21:19	55002	NEWP_T1	4	5	1	1.05	0.88	-0.17	0	0	0	0	0	0	0	0
3/14/2025 21:19	64101	REFR_T1	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
3/14/2025 21:19	64702	LITI_T2	0	0	0	0	0	0	-0.81	-0.88	0	0	0	0	0	0
3/14/2025 21:19	55003	NEWP_T2	0	2	2	0	0.1	0.1	-0.23	-0.27	0	0	0	0	0	0
3/14/2025 21:19	61803	EELI_T2	0	0	0	0	0	0	0.73	0.73	0	0	0	0	0	0
3/14/2025 21:20	60801	BUCK_T1	27	19	-8	0.16	0.12	-0.04	-0.31	-0.28	0	0	0	0	0	0
3/14/2025 21:20	42902	MIDD_T2	0	0	0	0	0	0	-1.54	-1.54	0	0	0	0	0	0
3/14/2025 21:20	41204	KENM_T2	0	0	0	0	0	0	-0.01	-0.05	0	0	0	0	0	0
3/14/2025 21:20	64101	REFR_T1	0	0	0	0	0	0	-0.63	-0.66	0	0	0	0	0	0
3/14/2025 21:20	48302	ORWI_T2	6	19	13	3.17	1.09	-2.08	-0.14	-0.16	0	0	0	0	0	0
3/14/2025 21:20	61304	EARL_T1	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
3/14/2025 21:20	42201	SHEN_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
3/14/2025 21:20	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/14/2025 21:20	61103	BERK_T5	2	51	49	0.1	0.13	0.03	-0.01	-0.01	0	0	0	0	0	0
3/14/2025 21:20	61102	BERK_T5	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:20	44801	EDAN_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
3/14/2025 21:20	43402	BENT_T1	19	61	42	0.19	0.2	0.01	-1.06	-1.07	1	1	0	900	900	0
3/14/2025 21:20	66505	SMAN_T2	3	3	0	1.2	1.47	0.27	0	0	0	0	0	0	0	0
3/14/2025 21:20	44902	SCOT_T2	752	757	5	0.6	0.7	0.1	-0.99	-0.98	0	0	0	0	0	0
3/14/2025 21:20	61702	ELIZ_T2	0	0	0	0	0	0	-0.85	-0.85	1	1	0	300	300	0
3/14/2025 21:20	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:20	62106	ELAN_T1	11	53	42	0.14	0.15	0.01	0	0	0	0	0	0	0	0
3/14/2025 21:20	42903	MIDD_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/14/2025 21:20	41202	KENM_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/14/2025 21:20	63306	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:20	52202	DEVO_T2	0	0	0	0	0	0	-0.83	-0.85	0	0	0	0	0	0
3/14/2025 21:20	62105	ELAN_T1	29	87	58	0.11	0.14	0.03	0	0	0	0	0	0	0	0
3/14/2025 21:20	67605	WARW_T1	15	20	5	0.43	0.44	0.01	-1.02	-0.97	0	0	0	0	0	0
3/14/2025 21:20	60803	BUCK_T1	8	5	-3	0.11	0.16	0.05	0	0	0	0	0	0	0	0
3/14/2025 21:20	41201	KENM_T2	1	9	8	0.1	0.1	0	0	0	0	0	0	0	0	0
3/14/2025 21:20	45801	HEGI_T1	0	0	0	0	0	0	-0.6	-0.58	1	1	0	900	900	0
3/14/2025 21:20	55002	NEWP_T1	4	5	1	1.05	0.88	-0.17	-0.29	-0.29	0	0	0	0	0	0
3/14/2025 21:20	57201	ROSS_T1	10	17	7	0.19	0.21	0.02	0.65	0.63	0	0	0	0	0	0
3/14/2025 21:20	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:20	41301	FISH_T1	5	8	3	0.34	0.5	0.16	-0.42	-0.43	0	0	0	0	0	0
3/14/2025 21:20	54504	ENOL_T2	0	0	0	0	0	0	-1.13	-1.13	1	1	0	600	600	0
3/14/2025 21:20	48303	ORWI_T2	25	31	6	0.58	0.64	0.06	0	0	0	0	0	0	0	0
3/14/2025 21:20	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:20	55001	NEWP_T1	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
3/14/2025 21:20	62101	ELAN_T1	1	2	1	0.4	0.3	-0.1	1.86	1.92	0	0	0	0	0	0
3/14/2025 21:20	61101	BERK_T5	2	8	6	0.25	0.19	-0.06	0	0	0	0	0	0	0	0
3/14/2025 21:20	44901	SCOT_T2	40	140	100	0.19	0.23	0.04	0	0	0	0	0	0	0	0
3/14/2025 21:21	58401	MORO_T1	0	0	0	0	0	0	-1.28	-1.29	1	1	0	600	600	0
3/14/2025 21:21	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/14/2025 21:21	40101	HUNT_T2	0	0	0	0	0	0	-1.86	-1.83	0	0	0	0	0	0
3/14/2025 21:21	50502	MECH_T1	5	5	0	0.7	0.74	0.04	0	0	0	0	0	0	0	0
3/14/2025 21:21	66504	SMAN_T2	0	0	0	0	0	0	-1.31	-1.35	0	0	0	0	0	0
3/14/2025 21:21	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:21	54203	PENN_T1	18	18	0	0.91	1.04	0.13	0	0	0	0	0	0	0	0
3/14/2025 21:21	52402	GRPA_T2	3	3	0	0.73	0.87	0.14	0	0	0	0	0	0	0	0
3/14/2025 21:21	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:21	50501	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:21	67201	TEHI_T1	0	0	0	0	0	0	0.49	0.58	0	0	0	0	0	0
3/14/2025 21:21	59402	RFLD_T2	0	0	0	0	0	0	-0.97	-0.95	1	1	0	450	450	0
3/14/2025 21:21	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:21	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:21	47401	PENS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/14/2025 21:21	58201	NEWV_T1	1	1	0	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
3/14/2025 21:21	67402	WAKE_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
3/14/2025 21:21	44802	EDAN_T2	0	0	0	0	0	0	-2.16	-2.14	0	0	0	0	0	0
3/14/2025 21:21	46004	BERW_T2	1	1	0	0.1	0.7	0.6	-0.89	-0.95	0	0	0	0	0	0
3/14/2025 21:21	52401	GRPA_T2	0	0	0	0	0	0	-0.73	-0.73	0	0	0	0	0	0
3/14/2025 21:21	46102	MACI_T1	0	0	0	0	0	0	0.59	0.58	0	0	0	0	0	0
3/14/2025 21:21	52403	GRPA_T2	0	0	0	0	0	0	-0.61	-0.62	0	0	0	0	0	0
3/14/2025 21:21	64904	MILL_T1	0	0	0	0	0	0	0.35	0.36	0	0	0	0	0	0
3/14/2025 21:21	66505	SMAN_T2	3	3	0	1.2	1.47	0.27	0	0	0	0	0	0	0	0
3/14/2025 21:21	50701	SMEC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:21	58202	NEWV_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:21	63302	GREE_T1	0	0	0	0	0	0	0.15	0.1	0	0	0	0	0	0
3/14/2025 21:21	57401	SPAN_T1	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
3/14/2025 21:21	57402	SPAN_T2	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
3/14/2025 21:21	42701	AUGU_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/14/2025 21:21	58402	MORO_T1	0	0	0	0	0	0	0.2	0.2	1	1	0	900	900	0
3/14/2025 21:21	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:21	47403	PENS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:21	54201	PENN_T1	10	10	0	0.46	0.6	0.14	0.85	0.86	0	0	0	0	0	0
3/14/2025 21:21	20403	ASHF_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/14/2025 21:21	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
3/14/2025 21:22	40101	HUNT_T2	0	0	0	0	0	0	-1.86	-1.83	0	0	0	0	0	0
3/14/2025 21:22	52402	GRPA_T2	3	3	0	0.73	0.87	0.14	0	0	0	0	0	0	0	0
3/14/2025 21:22	55003	NEWP_T2	0	2	2	0	0.1	0.1	-0.27	-0.25	0	0	0	0	0	0
3/14/2025 21:22	44802	EDAN_T2	0	0	0	0	0	0	-1.08	-1.07	0	0	0	0	0	0
3/14/2025 21:22	53901	HALI_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:22	52403	GRPA_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
3/14/2025 21:22	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
3/14/2025 21:22	20401	ASHF_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/14/2025 21:22	58401	MORO_T1	0	0	0	0	0	0	-2.58	-2.6	2	2	0	1200	1200	0
3/14/2025 21:22	61304	EARL_T1	0	0	0	0	0	0	-0.43	-0.49	0	0	0	0	0	0
3/14/2025 21:22	57403	SPAN_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
3/14/2025 21:22	47203	FAXO_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
3/14/2025 21:22	14801	TREI_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/14/2025 21:22	50701	SMEC_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
3/14/2025 21:22	45501	DERR_T2	1	1	0	0.3	0.5	0.2	-0.1	-0.09	1	1	0	600	600	0
3/14/2025 21:22	57205	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:22	46301	ROHR_T1	57	149	92	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
3/14/2025 21:22	52101	MEIS_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 21:22	20403	ASHF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:22	67401	WAKE_T2	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
3/14/2025 21:22	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/14/2025 21:22	58202	NEWV_T1	0	2	2	0	0.2	0.2	0	0.08	0	0	0	0	0	0
3/14/2025 21:22	58201	NEWV_T1	1	1	0	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
3/14/2025 21:22	53902	HALI_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/14/2025 21:22	53903	HALI_T2	2	2	0	1.5	1.5	0	-0.17	-0.19	0	0	0	0	0	0
3/14/2025 21:22	46302	ROHR_T1	3	4	1	1.4	1.43	0.03	0.09	0.12	0	0	0	0	0	0
3/14/2025 21:22	58102	NEKI_T1	1	1	0	1	1.1	0.1	-0.02	-0.07	0	0	0	0	0	0
3/14/2025 21:22	63501	HEID_TBK1-2	32	36	4	0.24	0.41	0.17	0.79	1.1	0	0	0	0	0	0
3/14/2025 21:22	46203	DANV_T2	7	21	14	0.13	0.15	0.02	0.03	0.08	0	0	0	0	0	0
3/14/2025 21:22	42701	AUGU_T1	1	1	0	1	0.9	-0.1	0	0	2	2	0	1800	1800	0
3/14/2025 21:22	57401	SPAN_T1	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
3/14/2025 21:22	67605	WARW_T1	15	20	5	0.43	0.44	0.01	-0.97	-0.98	0	0	0	0	0	0
3/14/2025 21:22	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:22	57201	ROSS_T1	10	17	7	0.19	0.21	0.02	-0.63	-0.66	0	0	0	0	0	0
3/14/2025 21:22	20601	GRWO_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
3/14/2025 21:22	41301	FISH_T1	5	8	3	0.34	0.5	0.16	-0.43	-0.44	0	0	0	0	0	0
3/14/2025 21:22	14802	TREI_T2	0	3	3	0	0.1	0.1	0.29	0.32	0	0	0	0	0	0
3/14/2025 21:23	57401	SPAN_T1	2	2	0	0.55	0.45	-0.1	0	0	0	0	0	0	0	0
3/14/2025 21:23	58201	NEWV_T1	1	1	0	1.5	0.9	-0.6	0	0	0	0	0	0	0	0
3/14/2025 21:23	51904	COPA_T1	5	5	0	1.24	1.14	-0.1	0	0	0	0	0	0	0	0
3/14/2025 21:23	57403	SPAN_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
3/14/2025 21:23	54505	ENOL_T2	1	1	0	0.5	0.7	0.2	-1.36	-1.36	1	1	0	600	600	0
3/14/2025 21:23	54502	ENOL_T2	1	1	0	0.6	0.6	0	-2.05	-2.04	1	1	0	600	600	0
3/14/2025 21:23	45303	WBER_T2	9	9	0	1.4	1.51	0.11	-0.45	-0.44	0	0	0	0	0	0
3/14/2025 21:23	58401	MORO_T1	0	0	0	0	0	0	-7.74	-7.8	6	6	0	3600	3600	0
3/14/2025 21:23	65502	MOJO_T2	0	104	104	0	0.12	0.12	0	0	0	0	0	0	0	0
3/14/2025 21:23	42902	MIDD_T2	0	0	0	0	0	0	-1.54	-1.52	0	0	0	0	0	0
3/14/2025 21:23	50502	MECH_T1	5	5	0	0.7	0.74	0.04	0	0	0	0	0	0	0	0
3/14/2025 21:23	64204	KINZ_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
3/14/2025 21:23	42903	MIDD_T2	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/14/2025 21:23	55003	NEWP_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 21:23	64203	KINZ_T1	0	0	0	0	0	0	0.11	0.12	0	0	0	0	0	0
3/14/2025 21:23	64201	KINZ_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:23	54601	SUMM_T2	7	8	1	0.29	0.4	0.11	0	0	0	0	0	0	0	0
3/14/2025 21:23	50506	MECH_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
3/14/2025 21:23	53903	HALI_T2	2	2	0	1.5	1.5	0	0	0	0	0	0	0	0	0
3/14/2025 21:23	57201	ROSS_T1	10	17	7	0.19	0.21	0.02	0	0	0	0	0	0	0	0
3/14/2025 21:23	40902	JESH_T1	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
3/14/2025 21:23	67401	WAKE_T2	0	0	0	0	0	0	-0.98	-0.98	0	0	0	0	0	0
3/14/2025 21:23	51906	COPA_T1	0	0	0	0	0	0	-1.2	-1.2	2	2	0	1500	1500	0
3/14/2025 21:23	67106	SPBI_T2	0	0	0	0	0	0	-2.7	-2.68	2	2	0	1800	1800	0
3/14/2025 21:23	58202	NEWV_T1	0	2	2	0	0.2	0.2	0	0.16	0	0	0	0	0	0
3/14/2025 21:23	52101	MEIS_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/14/2025 21:23	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:23	53901	HALI_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:23	52402	GRPA_T2	3	3	0	0.73	0.87	0.14	0	0	0	0	0	0	0	0
3/14/2025 21:23	57205	ROSS_T1	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
3/14/2025 21:23	59402	RFLD_T2	0	0	0	0	0	0	-0.95	-0.96	1	1	0	450	450	0
3/14/2025 21:23	53902	HALI_T2	1	1	0	5.8	5.8	0	-0.3	-0.31	0	0	0	0	0	0
3/14/2025 21:23	67901	WNHO_T2	57	60	3	0.27	0.25	-0.02	-0.58	-0.61	1	1	0	900	900	0
3/14/2025 21:24	57401	SPAN_T1	2	2	0	0.55	0.45	-0.1	0.3	0.27	0	0	0	0	0	0
3/14/2025 21:24	41902	REED_T1	0	0	0	0	0	0	0.9	0.93	0	0	0	0	0	0
3/14/2025 21:24	43802	SWIL_T1	0	0	0	0	0	0	-0.31	-0.31	1	1	0	600	600	0
3/14/2025 21:24	67402	WAKE_T2	0	0	0	0	0	0	0.12	0.11	0	0	0	0	0	0
3/14/2025 21:24	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:24	41901	REED_T1	8	8	0	0.48	0.56	0.08	0	0	0	0	0	0	0	0
3/14/2025 21:24	50701	SMEC_T1	0	0	0	0	0	0	0.14	0.12	0	0	0	0	0	0
3/14/2025 21:24	57403	SPAN_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
3/14/2025 21:24	57201	ROSS_T1	10	17	7	0.19	0.21	0.02	0	0	0	0	0	0	0	0
3/14/2025 21:24	66505	SMAN_T2	3	3	0	1.2	1.47	0.27	0	0	0	0	0	0	0	0
3/14/2025 21:24	43801	SWIL_T1	3	5	2	2.2	1.38	-0.82	0	0	0	0	0	0	0	0
3/14/2025 21:24	66504	SMAN_T2	0	0	0	0	0	0	-0.65	-0.67	0	0	0	0	0	0
3/14/2025 21:25	66903	SHIL_T2	0	0	0	0	0	0	-1.3	-1.29	0	0	0	0	0	0
3/14/2025 21:25	45501	DERR_T2	1	1	0	0.3	0.5	0.2	-0.1	-0.09	1	1	0	600	600	0
3/14/2025 21:25	60803	BUCK_T1	8	5	-3	0.11	0.16	0.05	0	0	0	0	0	0	0	0
3/14/2025 21:25	60801	BUCK_T1	27	19	-8	0.16	0.12	-0.04	0	0	0	0	0	0	0	0
3/14/2025 21:25	67303	WYOM_T2	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
3/14/2025 21:26	52402	GRPA_T2	3	3	0	0.73	0.87	0.14	0	0	0	0	0	0	0	0
3/14/2025 21:26	57203	ROSS_T1	0	0	0	0	0	0	0.28	0.29	0	0	0	0	0	0
3/14/2025 21:26	57201	ROSS_T1	10	17	7	0.19	0.21	0.02	0	0	0	0	0	0	0	0
3/14/2025 21:26	52403	GRPA_T2	0	0	0	0	0	0	-1.24	-1.24	0	0	0	0	0	0
3/14/2025 21:27	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:27	52402	GRPA_T2	3	3	0	0.73	0.87	0.14	0	0	0	0	0	0	0	0
3/14/2025 21:28	55002	NEWP_T1	4	5	1	1.05	0.88	-0.17	0	0	0	0	0	0	0	0
3/14/2025 21:28	53902	HALI_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/14/2025 21:28	53901	HALI_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
3/14/2025 21:28	44301	BEAV_T2	0	0	0	0	0	0	-0.4	-0.36	1	1	0	600	600	0
3/14/2025 21:28	53903	HALI_T2	2	2	0	1.5	1.5	0	-0.17	-0.19	0	0	0	0	0	0
3/14/2025 21:28	55001	NEWP_T1	0	0	0	0	0	0	-0.47	-0.51	0	0	0	0	0	0
3/14/2025 21:29	60801	BUCK_T1	27	19	-8	0.16	0.12	-0.04	-0.28	-0.29	0	0	0	0	0	0
3/14/2025 21:29	60803	BUCK_T1	8	5	-3	0.11	0.16	0.05	0	0	0	0	0	0	0	0
3/14/2025 21:30	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:37	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 21:43	14802	TREI_T2	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/14/2025 21:43	14801	TREI_T2	2	2	0	0.15	0.2	0.05	0.32	0.32	0	0	0	0	0	0
3/14/2025 21:44	57201	ROSS_T1	17	9	-8	0.21	0.19	-0.02	0	0	0	0	0	0	0	0
3/14/2025 21:44	57203	ROSS_T1	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
3/14/2025 22:02	41301	FISH_T1	6	7	1	0.77	0.61	-0.16	0	0	0	0	0	0	0	0
3/14/2025 22:11	54502	ENOL_T2	1	1	0	0.7	0.3	-0.4	-2.1	-2.09	1	1	0	600	600	0
3/14/2025 22:11	54505	ENOL_T2	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
3/14/2025 22:18	63801	HEMP_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/14/2025 22:18	63802	HEMP_T1	0	0	0	0	0	0	0.05	0.07	0	0	0	0	0	0
3/14/2025 22:18	63804	HEMP_T1	1	1	0	5.5	5.2	-0.3	0	0	0	0	0	0	0	0
3/14/2025 23:02	44801	EDAN_T2	0	1	1	0	0	0	-0.51	-0.58	0	0	0	0	0	0
3/14/2025 23:57	50624	CCTY_T2	2	2	0	5.85	5.85	0	0	0	0	0	0	0	0	0
3/14/2025 23:57	50623	CCTY_T2	6	6	0	5.2	5.2	0	0	0	0	0	0	0	0	0
3/14/2025 23:57	50625	CCTY_T2	6	6	0	3.4	3.38	-0.02	0	0	0	0	0	0	0	0
3/14/2025 23:57	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 7:23	61803	EELI_T2	0	0	0	0	0	0	0.59	0.63	0	0	0	0	0	0
3/15/2025 8:50	65502	MOJO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 9:40	44201	POIN_T1	0	0	0	0	0	0	-2.46	-2.45	1	1	0	1200	1200	0
3/15/2025 9:40	63804	HEMP_T1	1	1	0	5.7	5.9	0.2	0	0	0	0	0	0	0	0
3/15/2025 9:40	63801	HEMP_T1	0	0	0	0	0	0	0.16	-0.29	0	0	0	0	0	0
3/15/2025 9:44	44502	HAMI_T2	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
3/15/2025 9:44	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 10:00	53903	HALI_T2	2	2	0	0.5	0.25	-0.25	0	0	0	0	0	0	0	0
3/15/2025 10:00	53901	HALI_T2	1	0	-1	0.2	0	-0.2	-1.45	-1.43	0	0	0	0	0	0
3/15/2025 10:00	40505	CRES_T1	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
3/15/2025 10:00	48302	DEWI_T2	2	2	0	7.25	7.3	0.05	-0.09	-0.04	0	0	0	0	0	0
3/15/2025 10:00	53902	HALI_T2	1	1	0	4.9	4.9	0	0	0	0	0	0	0	0	0
3/15/2025 10:00	10705	CATA_T2	0	0	0	0	0	0	-0.95	-0.92	1	1	0	900	900	0
3/15/2025 10:00	28102	TWLA_T2	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
3/15/2025 10:06	66502	SMAN_T2	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
3/15/2025 10:07	67503	WEWI_T2	0	0	0	0	0	0	-0.09	-0.11	0	0	0	0	0	0
3/15/2025 10:08	24202	PROV_T4	0	0	0	0	0	0	-0.9	-0.89	1	1	0	1200	1200	0
3/15/2025 10:08	24203	PROV_T4	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/15/2025 10:09	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 10:11	63801	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 10:11	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
3/15/2025 10:12	63804	HEMP_T1	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
3/15/2025 10:12	63801	HEMP_T1	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
3/15/2025 10:14	23502	GEOR_T1	0	0	0	0	0	0	-0.48	-0.5	0	0	0	0	0	0
3/15/2025 10:22	15603	NSTR_T2	0	0	0	0	0	0	-1.27	-1.26	0	0	0	0	0	0
3/15/2025 10:24	13905	SEID_T1	0	0	0	0	0	0	-1.03	-1.05	1	1	0	1200	1200	0
3/15/2025 10:25	24902	WHHA_T1	8	13	5	0.88	0.85	-0.03	0.73	0.73	0	0	0	0	0	0
3/15/2025 10:25	24901	WHHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 10:27	67605	WARW_T1	0	0	0	0	0	0	-1.06	-1.07	0	0	0	0	0	0
3/15/2025 10:28	10801	CHHI_T1	0	0	0	0	0	0	-2.21	-2.21	3	3	0	2100	2100	0
3/15/2025 10:45	61505	EPET_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
3/15/2025 10:45	11104	EGYP_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/15/2025 10:45	11103	EGYP_T1	1	1	0	4.2	0	-4.2	0	0	0	0	0	0	0	0
3/15/2025 10:46	61505	EPET_T1	0	0	0	0	0	0	0.27	0.29	0	0	0	0	0	0
3/15/2025 10:47	17802	GILB_T1	1	1	0	0.1	0.2	0.1	0.02	0.02	0	0	0	0	0	0
3/15/2025 10:48	63501	HEID_TBK1-2	1	11	10	0.4	0.15	-0.25	0.44	0.36	0	0	0	0	0	0
3/15/2025 10:52	40602	PIGR_T1	0	1	1	0	0	0	-0.74	-1.99	1	1	0	600	600	0
3/15/2025 10:53	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 10:57	67904	WNHO_T1	0	0	0	0	0	0	-1.21	-1.21	1	1	0	1200	1200	0
3/15/2025 10:59	61304	EARL_T1	0	0	0	0	0	0	-0.93	-0.94	1	1	0	600	600	0
3/15/2025 11:01	57002	WHHI_T2	0	0	0	0	0	0	-2.51	-2.48	1	1	0	1200	1200	0
3/15/2025 11:09	24204	PROV_T3	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
3/15/2025 11:09	24201	PROV_T3	3	3	0	5.4	5.53	0.13	-1.53	-1.49	1	1	0	1200	1200	0
3/15/2025 11:10	21203	ECAR_T1	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/15/2025 11:11	57002	WHHI_T2	0	0	0	0	0	0	-2.48	-2.5	1	1	0	1200	1200	0
3/15/2025 11:19	61001	DONV_T1	0	0	0	0	0	0	-0.14	-0.1	0	0	0	0	0	0
3/15/2025 11:26	44902	SCOT_T2	0	0	0	0	0	0	-0.96	-0.96	0	0	0	0	0	0
3/15/2025 11:26	44901	SCOT_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/15/2025 11:27	61001	DONV_T1	0	0	0	0	0	0	-0.1	-0.13	0	0	0	0	0	0
3/15/2025 11:33	67604	WARW_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
3/15/2025 11:33	44505	HAMI_T2	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
3/15/2025 11:33	60803	BUCK_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/15/2025 11:33	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
3/15/2025 11:33	60201	ATGL_T2	0	0	0	0	0	0	-0.09	-0.13	0	0	0	0	0	0
3/15/2025 11:33	60801	BUCK_T1	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
3/15/2025 11:34	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
3/15/2025 11:34	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 11:34	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/15/2025 11:34	57106	SPHI_T2	3	3	0	1.73	1.97	0.24	0	0	0	0	0	0	0	0
3/15/2025 11:34	63804	HEMP_T1	1	4	3	5.3	1.38	-3.92	0	0	0	0	0	0	0	0
3/15/2025 11:34	63802	HEMP_T1	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
3/15/2025 11:34	57104	SPHI_T2	1	0	-1	5.9	0	-5.9	-1.88	-1.94	1	1	0	900	900	0
3/15/2025 11:34	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 11:35	44505	HAMI_T2	0	0	0	0	0	0	0.35	0.37	0	0	0	0	0	0
3/15/2025 11:35	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
3/15/2025 11:38	15203	SFAR_T2	0	0	0	0	0	0	-1.32	-1.36	0	0	0	0	0	0
3/15/2025 11:39	67402	WAKE_T2	0	0	0	0	0	0	0.24	0.32	0	0	0	0	0	0
3/15/2025 11:39	66202	SISP_T2	0	0	0	0	0	0	-1.23	-1.26	0	0	0	0	0	0
3/15/2025 11:41	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 11:41	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
3/15/2025 11:43	13303	ORVI_T1	0	0	0	0	0	0	0.54	0.53	0	0	0	0	0	0
3/15/2025 11:46	20201	JERM_T1	0	0	0	0	0	0	0.49	0.57	1	1	0	1200	1200	0
3/15/2025 11:46	61001	DONV_T1	0	0	0	0	0	0	-0.13	-0.13	0	0	0	0	0	0
3/15/2025 11:53	63804	HEMP_T1	1	4	3	5.3	1.38	-3.92	0	0	0	0	0	0	0	0
3/15/2025 11:53	63801	HEMP_T1	0	0	0	0	0	0	-0.39	-0.38	0	0	0	0	0	0
3/15/2025 11:53	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/15/2025 11:57	64701	LITI_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
3/15/2025 11:59	44301	BEAV_T2	2	0	-2	0.3	0	-0.3	-0.84	-0.87	1	1	0	600	600	0
3/15/2025 12:00	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 12:06	59402	RFLD_T2	0	0	0	0	0	0	-0.88	-0.89	1	1	0	450	450	0
3/15/2025 12:06	58402	MORO_T1	0	0	0	0	0	0	-0.66	-0.71	3	3	0	1800	1800	0
3/15/2025 12:07	44901	SCOT_T2	4	7	3	0.1	0.2	0.1	-0.41	-0.46	0	0	0	0	0	0
3/15/2025 12:09	44901	SCOT_T2	4	7	3	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/15/2025 12:09	44902	SCOT_T2	0	0	0	0	0	0	-0.96	-1.02	0	0	0	0	0	0
3/15/2025 12:10	64101	REFR_T1	0	0	0	0	0	0	-0.09	-0.14	0	0	0	0	0	0
3/15/2025 12:10	16102	BING_T2	0	0	0	0	0	0	-0.1	-0.04	0	0	0	0	0	0
3/15/2025 12:11	44901	SCOT_T2	4	7	3	0.1	0.2	0.1	-0.81	-0.92	0	0	0	0	0	0
3/15/2025 12:12	61304	EARL_T1	0	0	0	0	0	0	-0.91	-0.93	1	1	0	600	600	0
3/15/2025 12:13	61304	EARL_T1	0	0	0	0	0	0	-0.91	-0.93	1	1	0	600	600	0
3/15/2025 12:16	61304	EARL_T1	0	0	0	0	0	0	-0.91	-0.93	1	1	0	600	600	0
3/15/2025 12:16	61001	DONV_T1	0	0	0	0	0	0	-0.18	-0.17	0	0	0	0	0	0
3/15/2025 12:21	44202	POIN_T2	0	0	0	0	0	0	-0.99	-1	1	1	0	1200	1200	0
3/15/2025 12:21	44201	POIN_T1	0	3	3	0	0.1	0.1	-7.03	-7.08	3	3	0	3600	3600	0
3/15/2025 12:22	44201	POIN_T1	0	3	3	0	0.1	0.1	-2.34	-2.36	1	1	0	1200	1200	0
3/15/2025 12:23	44202	POIN_T2	0	0	0	0	0	0	-0.99	-1	1	1	0	1200	1200	0
3/15/2025 12:23	44201	POIN_T1	0	3	3	0	0.1	0.1	-2.34	-2.36	1	1	0	1200	1200	0
3/15/2025 12:25	67502	WEWI_T2	0	26	26	0	0.14	0.14	0	0	0	0	0	0	0	0
3/15/2025 12:26	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 12:26	21204	ECAR_T2	1	1	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
3/15/2025 12:26	21206	ECAR_T2	1	1	0	7.8	8	0.2	0	0	0	0	0	0	0	0
3/15/2025 12:26	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.32	0	0	0	0	0	0
3/15/2025 12:26	42701	AUGU_T1	1	1	0	0.3	0.9	0.6	0	0	2	2	0	1800	1800	0
3/15/2025 12:26	16101	BING_T2	0	0	0	0	0	0	0.4	0.37	0	0	0	0	0	0
3/15/2025 12:27	15203	SFAR_T2	0	0	0	0	0	0	-2.72	-2.64	0	0	0	0	0	0
3/15/2025 12:27	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 12:27	21206	ECAR_T2	1	1	0	7.8	8	0.2	1.27	1.31	0	0	0	0	0	0
3/15/2025 12:27	67901	WNHO_T2	0	0	0	0	0	0	-0.1	-0.07	0	0	0	0	0	0
3/15/2025 12:28	67901	WNHO_T2	0	0	0	0	0	0	-0.1	-0.07	0	0	0	0	0	0
3/15/2025 12:29	21206	ECAR_T2	1	1	0	7.8	8	0.2	1.27	1.31	0	0	0	0	0	0
3/15/2025 12:29	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 12:36	64203	KINZ_T1	0	0	0	0	0	0	-0.37	-0.46	1	1	0	600	600	0
3/15/2025 12:36	64201	KINZ_T1	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
3/15/2025 12:36	64204	KINZ_T1	1	14	13	0.5	0.21	-0.29	0	0	0	0	0	0	0	0
3/15/2025 12:36	64202	KINZ_T1	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
3/15/2025 12:37	57201	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/15/2025 12:37	57205	ROSS_T1	0	0	0	0	0	0	-0.95	-0.96	1	1	0	900	900	0
3/15/2025 12:38	57201	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/15/2025 12:38	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 12:38	24201	PROV_T3	27	13	-14	0.73	1.3	0.57	-1.49	-0.13	1	0	-1	1200	0	-1200
3/15/2025 12:38	24204	PROV_T3	6	3	-3	1.03	1.93	0.9	0	0	0	0	0	0	0	0
3/15/2025 12:39	57205	ROSS_T1	0	0	0	0	0	0	-0.95	-0.96	1	1	0	900	900	0
3/15/2025 12:39	57201	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/15/2025 12:42	57203	ROSS_T1	0	0	0	0	0	0	-0.58	-0.66	0	0	0	0	0	0
3/15/2025 12:42	57201	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/15/2025 12:42	55105	WERT_T1	0	0	0	0	0	0	-0.7	-0.67	1	1	0	900	900	0
3/15/2025 12:43	61301	EARL_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
3/15/2025 12:44	61302	EARL_T1	0	0	0	0	0	0	-0.32	0.2	2	1	-1	1800	1200	-600
3/15/2025 12:52	57201	ROSS_T1	1	5	4	0.1	0.1	0	-1.02	-1.01	0	0	0	0	0	0
3/15/2025 12:52	57205	ROSS_T1	0	0	0	0	0	0	-1.92	-1.94	2	2	0	1800	1800	0
3/15/2025 12:54	57201	ROSS_T1	1	5	4	0.1	0.1	0	-1.02	-1.01	0	0	0	0	0	0
3/15/2025 12:54	15204	SFAR_T2	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
3/15/2025 12:54	59201	THOM_T1	3	9	6	0.2	0.22	0.02	0	0	0	0	0	0	0	0
3/15/2025 12:54	59202	THOM_T1	4	12	8	0.13	0.17	0.04	0	0	0	0	0	0	0	0
3/15/2025 12:58	43402	BENT_T1	0	0	0	0	0	0	-1	-0.99	1	1	0	900	900	0
3/15/2025 12:59	43402	BENT_T1	0	0	0	0	0	0	-1	-0.99	1	1	0	900	900	0
3/15/2025 12:59	45501	DERR_T2	0	0	0	0	0	0	-0.72	-0.71	2	2	0	1800	1800	0
3/15/2025 12:59	54504	ENOL_T2	0	0	0	0	0	0	-1.09	-1.08	1	1	0	600	600	0
3/15/2025 12:59	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.35	0	0	0	0	0	0
3/15/2025 12:59	54505	ENOL_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/15/2025 12:59	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/15/2025 13:00	45501	DERR_T2	0	0	0	0	0	0	-0.72	-0.71	2	2	0	1800	1800	0
3/15/2025 13:02	41001	LAUR_T2	68	73	5	0.37	0.38	0.01	0	0	0	0	0	0	0	0
3/15/2025 13:02	41002	LAUR_T2	39	43	4	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
3/15/2025 13:05	58201	NEWV_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
3/15/2025 13:05	58202	NEWV_T1	5	7	2	0.34	0.43	0.09	0	0	0	0	0	0	0	0
3/15/2025 13:06	58201	NEWV_T1	1	1	0	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
3/15/2025 13:06	58202	NEWV_T1	5	7	2	0.34	0.43	0.09	-0.06	-0.07	0	0	0	0	0	0
3/15/2025 13:07	67106	SPRI_T2	0	0	0	0	0	0	-1.97	-1.97	1	1	0	900	900	0
3/15/2025 13:08	67106	SPRI_T2	0	0	0	0	0	0	-1.97	-1.97	1	1	0	900	900	0
3/15/2025 13:09	67106	SPRI_T2	0	0	0	0	0	0	-1.97	-1.97	1	1	0	900	900	0
3/15/2025 13:14	57002	WHHI_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/15/2025 13:14	57006	WHHI_T2	0	0	0	0	0	0	1.52	2.18	1	0	-1	600	0	-600
3/15/2025 13:15	57006	WHHI_T2	0	0	0	0	0	0	1.52	2.18	1	0	-1	600	0	-600
3/15/2025 13:15	57002	WHHI_T2	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/15/2025 13:17	54502	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/15/2025 13:17	54506	ENOL_T2	0	0	0	0	0	0	-1.45	-1.46	1	0	-1	600	0	-600
3/15/2025 13:17	54505	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/15/2025 13:20	43202	MVIL_T2	19	48	29	0.18	0.23	0.05	-0.71	-0.72	0	0	0	0	0	0
3/15/2025 13:25	67201	TEHI_T1	0	0	0	0	0	0	0.49	0.47	0	0	0	0	0	0
3/15/2025 13:30	62106	ELAN_T1	0	0	0	0	0	0	-0.02	0	0	0	0	0	0	0
3/15/2025 13:37	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.22	1	1	0	600	600	0
3/15/2025 13:38	58401	MORO_T1	0	0	0	0	0	0	-1.26	-1.22	1	1	0	600	600	0
3/15/2025 13:42	46203	DANV_T2	61	110	49	0.32	0.56	0.24	-1.07	-1.1	0	0	0	0	0	0
3/15/2025 13:44	61703	ELIZ_T1	0	0	0	0	0	0	-7.62	-7.39	6	6	0	6300	6300	0
3/15/2025 13:44	61701	ELIZ_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
3/15/2025 13:45	61701	ELIZ_T1	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
3/15/2025 13:45	63501	HEID_TBK1-2	36	37	1	0.51	0.6	0.09	-0.57	-0.58	1	1	0	900	900	0
3/15/2025 13:45	61703	ELIZ_T1	0	0	0	0	0	0	-5.08	-4.93	4	4	0	4200	4200	0
3/15/2025 13:46	61701	ELIZ_T1	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
3/15/2025 13:46	61703	ELIZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 13:46	46203	DANV_T2	99	158	59	0.54	0.62	0.08	-1.07	-1.1	0	0	0	0	0	0
3/15/2025 13:47	11203	ELHE_T1	0	0	0	0	0	0	0.72	0.71	0	0	0	0	0	0
3/15/2025 13:47	46203	DANV_T2	99	158	59	0.54	0.62	0.08	-1.07	-1.1	0	0	0	0	0	0
3/15/2025 13:47	63501	HEID_TBK1-2	36	37	1	0.51	0.6	0.09	-1.14	-1.16	2	2	0	1800	1800	0
3/15/2025 13:49	63501	HEID_TBK1-2	36	37	1	0.51	0.6	0.09	-0.57	-0.58	1	1	0	900	900	0
3/15/2025 13:55	65205	PRIN_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/15/2025 13:55	65202	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/15/2025 14:11	10805	CHHI_T2	1	1	0	7.5	7.3	-0.2	-1.42	-1.49	1	1	0	600	600	0
3/15/2025 14:13	63802	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 14:13	63804	HEMP_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
3/15/2025 14:16	44502	HAMI_T2	1	1	0	2.4	2.5	0.1	0	0	0	0	0	0	0	0
3/15/2025 14:16	44503	HAMI_T2	0	0	0	0	0	0	-0.97	-1.01	0	0	0	0	0	0
3/15/2025 14:26	46203	DANV_T2	155	174	19	0.62	0.85	0.23	-1.09	-1.14	0	0	0	0	0	0
3/15/2025 14:27	60801	BUCK_T1	14	31	17	0.15	0.21	0.06	-0.25	-0.24	0	0	0	0	0	0
3/15/2025 14:27	60803	BUCK_T1	15	15	0	0.23	0.29	0.06	0	0	0	0	0	0	0	0
3/15/2025 14:28	62105	ELAN_T1	0	0	0	0	0	0	0.36	0.38	0	0	0	0	0	0
3/15/2025 14:29	62106	ELAN_T1	0	0	0	0	0	0	-0.03	-0.02	0	0	0	0	0	0
3/15/2025 14:30	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 14:30	46203	DANV_T2	173	172	-1	0.82	0.81	-0.01	-1.09	-1.14	0	0	0	0	0	0
3/15/2025 14:31	62104	ELAN_T1	0	0	0	0	0	0	-0.01	-0.06	1	1	0	1200	1200	0
3/15/2025 14:32	62104	ELAN_T1	0	0	0	0	0	0	-0.01	-0.06	1	1	0	1200	1200	0
3/15/2025 14:37	44902	SCOT_T2	91	105	14	0.12	0.12	0	-0.98	-0.98	0	0	0	0	0	0
3/15/2025 14:37	44901	SCOT_T2	25	40	15	0.18	0.19	0.01	0	0	0	0	0	0	0	0
3/15/2025 14:42	60102	COCA_T1	54	0	-54	0.16	0	-0.16	-0.97	-0.92	2	2	0	1200	1200	0
3/15/2025 14:45	63804	HEMP_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
3/15/2025 14:45	63802	HEMP_T1	0	0	0	0	0	0	0.09	0.12	0	0	0	0	0	0
3/15/2025 14:46	63801	LETO_T1	5	5	0	0.46	0.54	0.08	0.67	0.7	0	0	0	0	0	0
3/15/2025 14:46	46602	LACR_T1	0	0	0	0	0	0	-0.77	-0.74	0	0	0	0	0	0
3/15/2025 14:47	24103	EHAZ_T1	0	0	0	0	0	0	-1.55	-1.56	0	0	0	0	0	0
3/15/2025 14:47	24102	EHAZ_T1	10	11	1	0.84	1.03	0.19	0	0	0	0	0	0	0	0
3/15/2025 14:47	24105	EHAZ_T1	4	4	0	7.18	7	-0.18	0	0	0	0	0	0	0	0
3/15/2025 14:47	24101	EHAZ_T1	13	5	-8	0.95	0.15	-0.8	0	0	0	0	0	0	0	0
3/15/2025 14:58	61304	EARL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/15/2025 15:00	27204	YATE_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/15/2025 15:00	27201	YATE_T1	10	10	0	5.76	5.66	-0.1	-1.45	-1.36	0	0	0	0	0	0
3/15/2025 15:00	61304	EARL_T1	0	2	2	0	0.1	0.1	-0.99	-0.99	1	1	0	600	600	0
3/15/2025 15:08	67001	STHI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/15/2025 15:08	67002	STHI_T2	0	0	0	0	0	0	1.56	1.5	0	0	0	0	0	0
3/15/2025 15:08	52502	PROG_T2	0	0	0	0	0	0	-1.26	-1.22	2	2	0	1800	1800	0
3/15/2025 15:09	67001	STHI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/15/2025 15:09	52502	PROG_T2	0	0	0	0	0	0	-1.26	-1.22	2	2	0	1800	1800	0
3/15/2025 15:09	64101	REFR_T1	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
3/15/2025 15:09	67002	STHI_T2	0	0	0	0	0	0	1.04	1	0	0	0	0	0	0
3/15/2025 15:10	52502	PROG_T2	0	0	0	0	0	0	-0.63	-0.61	1	1	0	900	900	0
3/15/2025 15:12	67001	STHI_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/15/2025 15:12	67002	STHI_T2	0	0	0	0	0	0	0.52	0.5	0	0	0	0	0	0
3/15/2025 15:13	10801	CHHI_T1	0	0	0	0	0	0	-1.59	-1.61	2	2	0	1500	1500	0
3/15/2025 15:14	44801	EDAN_T2	1	1	0	0	0	0	-1	-0.98	0	0	0	0	0	0
3/15/2025 15:15	61304	EARL_T1	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/15/2025 15:15	61301	EARL_T1	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
3/15/2025 15:17	61302	EARL_T1	0	0	0	0	0	0	0.2	0.2	1	1	0	1200	1200	0
3/15/2025 15:17	61304	EARL_T1	2	3	1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/15/2025 15:18	62102	ELAN_T1	0	0	0	0	0	0	0.52	0.52	0	0	0	0	0	0
3/15/2025 15:23	64101	REFR_T1	0	0	0	0	0	0	-0.41	-0.32	0	0	0	0	0	0
3/15/2025 15:24	64101	REFR_T1	0	0	0	0	0	0	-0.62	-0.48	0	0	0	0	0	0
3/15/2025 15:25	67001	STHI_T2	1	1	0	0.2	0.3	0.1	0.06	0.06	0	0	0	0	0	0
3/15/2025 15:25	64101	REFR_T1	0	0	0	0	0	0	-0.41	-0.32	0	0	0	0	0	0
3/15/2025 15:28	40502	CRES_T2	8	8	0	0.18	0.13	-0.05	0.04	0.05	0	0	0	0	0	0
3/15/2025 15:28	40501	CRES_T2	4	5	1	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
3/15/2025 15:29	40502	CRES_T2	8	8	0	0.18	0.13	-0.05	0.04	0.05	0	0	0	0	0	0
3/15/2025 15:29	40501	CRES_T2	4	5	1	0.18	0.16	-0.02	0	0	0	0	0	0	0	0
3/15/2025 15:30	61306	EARL_T1	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0
3/15/2025 15:30	40504	CRES_T1	0	0	0	0	0	0	-1.26	-1.34	0	0	0	0	0	0
3/15/2025 15:30	40502	CRES_T2	7	7	0	0.13	0.16	0.03	0.08	0.1	0	0	0	0	0	0
3/15/2025 15:30	61304	EARL_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/15/2025 15:30	40501	CRES_T2	3	5	2	0.13	0.2	0.07	0	0	0	0	0	0	0	0
3/15/2025 15:31	40502	CRES_T2	7	7	0	0.13	0.16	0.03	0	0	0	0	0	0	0	0
3/15/2025 15:31	40501	CRES_T2	3	5	2	0.13	0.2	0.07	0	0	0	0	0	0	0	0
3/15/2025 15:32	62104	ELAN_T1	0	0	0	0	0	0	-0.03	-0.08	1	1	0	1200	1200	0
3/15/2025 15:32	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 15:34	43202	MVIL_T2	2	5	3	0.15	0.12	-0.03	-0.74	-0.73	0	0	0	0	0	0
3/15/2025 15:47	22101	EDEL_T2	0	0	0	0	0	0	0.33	0.33	1	1	0	1200	1200	0
3/15/2025 15:50	13302	ORVI_T2	0	0	0	0	0	0	1.28	1.3	0	0	0	0	0	0
3/15/2025 15:53	64902	MILL_T2	0	0	0	0	0	0	-0.75	-0.81	1	1	0	900	900	0
3/15/2025 15:54	15203	SFAR_T2	1	0	-1	0.1	0	-0.1	-1.36	-1.38	0	0	0	0	0	0
3/15/2025 15:55	15201	SFAR_T1	0	0	0	0	0	0	-1.86	-1.83	4	4	0	3600	3600	0
3/15/2025 15:55	15203	SFAR_T2	1	0	-1	0.1	0	-0.1	-1.36	-1.38	0	0	0	0	0	0
3/15/2025 15:56	15203	SFAR_T2	1	0	-1	0.1	0	-0.1	-1.36	-1.38	0	0	0	0	0	0
3/15/2025 15:57	15203	SFAR_T2	1	0	-1	0.1	0	-0.1	-1.36	-1.38	0	0	0	0	0	0
3/15/2025 15:57	15203	SFAR_T2	1	0	-1	0.1	0	-0.1	-1.36	-1.38	0	0	0	0	0	0
3/15/2025 15:57	15203	SFAR_T2	1	0	-1	0.1	0	-0.1	-1.36	-1.38	0	0	0	0	0	0
3/15/2025 15:57	15203	SFAR_T2	1	0	-1	0.1	0	-0.1	-1.36	-1.38	0	0	0	0	0	0
3/15/2025 15:57	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/15/2025 15:59	15201	SFAR_T1	0	0	0	0	0	0	-0.93	-0.92	2	2	0	1800	1800	0
3/15/2025 16:00	15203	SFAR_T2	0	0	0	0	0	0	-1.36	-1.38	0	0	0	0	0	0
3/15/2025 16:01	23401	HONE_T2	3	1	-2	0.23	0	-0.23	-0.14	-0.18	0	0	0	0	0	0
3/15/2025 16:03	23401	HONE_T2	3	1	-2	0.23	0	-0.23	-0.14	-0.18	0	0	0	0	0	0
3/15/2025 16:04	47104	MARL_T1	0	0	0	0	0	0	-2.24	-2.26	0	0	0	0	0	0
3/15/2025 16:04	47101	MARL_T1	7	2	-5	1.04	0	-1.04	0	0	0	0	0	0	0	0
3/15/2025 16:07	17802	GILB_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
3/15/2025 16:13	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 16:13	60104	COCA_T2	4	4	0	0.5	0.65	0.15	0	0	0	0	0	0	0	0
3/15/2025 16:16	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 16:16	52204	DEVO_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/15/2025 16:17	52202	DEVO_T2	0	0	0	0	0	0	-2.86	-2.9	0	0	0	0	0	0
3/15/2025 16:17	52204	DEVO_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/15/2025 16:25	45303	WBER_T2	5	7	2	1.76	1.31	-0.45	-0.49	-0.48	0	0	0	0	0	0
3/15/2025 16:26	45303	WBER_T2	5	7	2	1.76	1.31	-0.45	-0.98	-0.96	0	0	0	0	0	0
3/15/2025 16:27	20103	AVOC_T1	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
3/15/2025 16:28	11202	ELHE_T2	0	0	0	0	0	0	0.35	0.35	1	1	0	1200	1200	0
3/15/2025 16:29	20102	AVOC_T1	0	0	0	0	0	0	-0.83	-0.87	0	0	0	0	0	0
3/15/2025 16:36	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 16:37	47401	PENS_T1	0	0	0	0	0	0	1.3	1.28	0	0	0	0	0	0
3/15/2025 16:38	47401	PENS_T1	0	0	0	0	0	0	0.65	0.64	0	0	0	0	0	0
3/15/2025 16:45	27201	YATE_T1	10	10	0	5.53	5.57	0.04	-1.42	-1.34	0	0	0	0	0	0
3/15/2025 16:54	67204	TEHI_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
3/15/2025 17:01	24102	EHAZ_T1	5	6	1	0.82	0.6	-0.22	-0.55	-0.48	0	0	0	0	0	0
3/15/2025 17:01	24105	EHAZ_T1	4	5	1	7.85	7.25	-0.6	0	0	0	0	0	0	0	0
3/15/2025 17:01	24101	EHAZ_T1	7	25	18	0.39	0.72	0.33	0	0	0	0	0	0	0	0
3/15/2025 17:09	55002	NEWP_T1	3	2	-1	0.63	0.7	0.07	-0.26	-0.26	0	0	0	0	0	0
3/15/2025 17:10	60301	TWVA_T2	0	0	0	0	0	0	-3.25	-3.28	2	2	0	1800	1800	0
3/15/2025 17:15	45501	DERR_T2	0	0	0	0	0	0	-0.73	-0.91	2	2	0	1800	1800	0
3/15/2025 17:16	45501	DERR_T2	0	0	0	0	0	0	-0.73	-0.91	2	2	0	1800	1800	0
3/15/2025 17:18	44801	EDAN_T2	0	1	1	0	0.5	0.5	-0.51	-0.51	0	0	0	0	0	0
3/15/2025 17:19	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 17:19	54505	ENOL_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/15/2025 17:19	54502	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/15/2025 17:22	16101	BING_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
3/15/2025 17:22	16102	BING_T2	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
3/15/2025 17:35	54501	ENOL_T2	0	0	0	0	0	0	-0.57	-0.56	1	1	0	600	600	0
3/15/2025 17:35	54505	ENOL_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/15/2025 17:35	54502	ENOL_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/15/2025 17:56	67602	WARW_T2	0	1	1	0	0	0	1.44	1.43	1	1	0	300	300	0
3/15/2025 17:57	67602	WARW_T2	0	1	1	0	0	0	1.44	1.43	1	1	0	300	300	0
3/15/2025 18:35	61001	DONV_T1	0	0	0	0	0	0	-0.22	-0.19	0	0	0	0	0	0
3/15/2025 18:37	44903	SCOT_T1	0	0	0	0	0	0	0.38	0.33	0	0	0	0	0	0
3/15/2025 19:32	59402	RFLD_T2	0	0	0	0	0	0	-0.93	-0.91	1	1	0	450	450	0
3/15/2025 19:52	57203	ROSS_T1	0	0	0	0	0	0	-0.37	-0.4	0	0	0	0	0	0
3/15/2025 20:43	46602	LACR_T1	0	0	0	0	0	0	-0.79	-0.72	0	0	0	0	0	0
3/15/2025 20:44	63801	HEMP_T1	0	0	0	0	0	0	-0.47	-0.49	0	0	0	0	0	0
3/15/2025 20:44	63804	HEMP_T1	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
3/15/2025 20:46	61505	EPET_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
3/15/2025 20:46	61502	EPET_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/15/2025 20:47	59202	THOM_T1	20	47	27	0.13	0.21	0.08	0	0	0	0	0	0	0	0
3/15/2025 20:47	11104	EGYP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 20:47	52502	PROG_T2	0	0	0	0	0	0	-0.64	-0.63	1	1	0	900	900	0
3/15/2025 20:47	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 20:47	59201	THOM_T1	7	11	4	0.23	0.32	0.09	0	0	0	0	0	0	0	0
3/15/2025 20:47	11103	EGYP_T1	1	0	-1	7	0	-7	0	0	0	0	0	0	0	0
3/15/2025 20:49	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 20:49	44502	HAMI_T2	1	1	0	2.6	2.8	0.2	0	0	0	0	0	0	0	0
3/15/2025 20:49	55002	NEWP_T1	2	2	0	0.8	1	0.2	-0.26	-0.28	0	0	0	0	0	0
3/15/2025 20:49	61502	EPET_T1	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/15/2025 20:49	44503	HAMI_T2	0	0	0	0	0	0	-0.99	-1.02	0	0	0	0	0	0
3/15/2025 20:49	61505	EPET_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
3/15/2025 20:49	62104	ELAN_T1	0	0	0	0	0	0	-0.3	-0.35	1	1	0	1200	1200	0
3/15/2025 20:50	44502	HAMI_T2	1	1	0	2.6	2.8	0.2	0	0	0	0	0	0	0	0
3/15/2025 20:50	40504	CRES_T1	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
3/15/2025 20:50	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 20:51	41002	LAUR_T2	19	38	19	0.27	0.31	0.04	0	0	0	0	0	0	0	0
3/15/2025 20:51	40502	CRES_T2	0	5	5	0	0.12	0.12	0.05	0.05	0	0	0	0	0	0
3/15/2025 20:51	41001	LAUR_T2	62	75	13	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/15/2025 20:51	43402	BENT_T1	0	0	0	0	0	0	-1.02	-1.03	1	1	0	900	900	0
3/15/2025 20:51	40501	CRES_T2	10	12	2	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
3/15/2025 20:51	44901	SCOT_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
3/15/2025 20:52	40502	CRES_T2	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
3/15/2025 20:52	44901	SCOT_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
3/15/2025 20:52	52502	PROG_T2	0	0	0	0	0	0	-0.63	-0.71	1	1	0	900	900	0
3/15/2025 20:52	40501	CRES_T2	10	12	2	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
3/15/2025 20:53	47104	MARL_T1	0	0	0	0	0	0	-2.28	-2.31	0	0	0	0	0	0
3/15/2025 20:53	47401	PENS_T1	0	0	0	0	0	0	0.66	0.64	0	0	0	0	0	0
3/15/2025 20:53	63501	HEID_TBK1-2	32	37	5	0.23	0.33	0.1	-0.52	-0.56	1	1	0	900	900	0
3/15/2025 20:53	45303	WBER_T2	5	7	2	1.74	1.3	-0.44	-0.48	-0.5	0	0	0	0	0	0
3/15/2025 20:54	43202	MVIL_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
3/15/2025 20:54	54505	ENOL_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/15/2025 20:54	54502	ENOL_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/15/2025 20:54	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 20:54	62106	ELAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 20:54	54506	ENOL_T2	0	0	0	0	0	0	-1.51	-1.5	1	1	0	600	600	0
3/15/2025 20:55	67002	STHI_T2	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
3/15/2025 20:55	61701	ELIZ_T1	1	1	0	5.6	5.8	0.2	0	0	0	0	0	0	0	0
3/15/2025 20:55	64701	LITI_T1	0	0	0	0	0	0	0	0.06	0	0	0	0	0	0
3/15/2025 20:55	61703	ELIZ_T1	0	0	0	0	0	0	-2.57	-2.57	2	2	0	2100	2100	0
3/15/2025 20:55	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/15/2025 20:55	40602	PIGR_T1	0	0	0	0	0	0	-1.4	-1.48	1	1	0	600	600	0
3/15/2025 20:55	46203	DANV_T2	32	91	59	0.17	0.38	0.21	-1.12	-1.12	0	0	0	0	0	0
3/15/2025 20:55	60801	BUCK_T1	0	6	6	0	0.1	0.1	-0.27	-0.27	0	0	0	0	0	0
3/15/2025 20:56	40501	CRES_T2	10	12	2	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
3/15/2025 20:56	40502	CRES_T2	0	5	5	0	0.12	0.12	0.05	0.05	0	0	0	0	0	0
3/15/2025 20:56	44502	HAMI_T2	1	1	0	2.6	2.8	0.2	0	0	0	0	0	0	0	0
3/15/2025 20:56	10805	CHHI_T2	1	1	0	8.1	7.6	-0.5	-1.51	-1.51	1	1	0	600	600	0
3/15/2025 20:56	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.41	0	0	0	0	0	0
3/15/2025 20:56	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/15/2025 20:56	57006	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 20:56	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/15/2025 20:56	61306	EARL_T1	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
3/15/2025 20:56	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/15/2025 20:56	58201	NEWV_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/15/2025 20:56	58202	NEWV_T1	8	8	0	0.51	0.96	0.45	0	0	0	0	0	0	0	0
3/15/2025 20:56	44505	HAMI_T2	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
3/15/2025 20:56	63501	HEID_TBK1-2	32	37	5	0.23	0.33	0.1	-0.52	-0.56	1	1	0	900	900	0
3/15/2025 20:56	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 20:57	62106	ELAN_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
3/15/2025 20:57	61302	EARL_T1	0	0	0	0	0	0	-0.01	-0.05	1	1	0	1200	1200	0
3/15/2025 20:57	57003	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/15/2025 20:57	61304	EARL_T1	0	0	0	0	0	0	-0.39	-0.36	0	0	0	0	0	0
3/15/2025 20:57	57006	WHHI_T2	0	0	0	0	0	0	4.26	4.19	0	0	0	0	0	0
3/15/2025 20:57	61001	DONV_T1	0	0	0	0	0	0	-0.14	-0.18	0	0	0	0	0	0
3/15/2025 20:57	62104	ELAN_T1	0	0	0	0	0	0	-0.35	-0.33	1	1	0	1200	1200	0
3/15/2025 20:57	61301	EARL_T1	0	0	0	0	0	0	0.34	0.3	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/15/2025 20:57	57203	ROSS_T1	0	0	0	0	0	0	-0.36	-0.39	0	0	0	0	0	0
3/15/2025 20:58	45501	DERR_T2	0	0	0	0	0	0	-0.97	-1	2	2	0	1800	1800	0
3/15/2025 20:58	57205	ROSS_T1	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0
3/15/2025 20:58	44202	POIN_T2	0	0	0	0	0	0	-1.02	-1.02	1	1	0	1200	1200	0
3/15/2025 20:58	44801	EDAN_T2	1	1	0	0.2	0.4	0.2	-0.5	-0.51	0	0	0	0	0	0
3/15/2025 20:58	46203	DANV_T2	32	91	59	0.17	0.38	0.21	-1.12	-1.12	0	0	0	0	0	0
3/15/2025 20:59	44902	SCOT_T2	0	0	0	0	0	0	-1.06	-1.03	0	0	0	0	0	0
3/15/2025 20:59	67001	STHI_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/15/2025 20:59	13905	SEID_T1	0	0	0	0	0	0	0.24	0.25	0	0	0	0	0	0
3/15/2025 20:59	60301	TWVA_T2	0	0	0	0	0	0	-1.36	-2.03	1	2	1	1200	1800	600
3/15/2025 20:59	67002	STHI_T2	0	0	0	0	0	0	1.02	0.94	0	0	0	0	0	0
3/15/2025 20:59	44903	SCOT_T1	0	0	0	0	0	0	0.31	0.32	0	0	0	0	0	0
3/15/2025 20:59	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 21:00	44201	POIN_T1	82	86	4	0.51	0.77	0.26	-8.26	-8.5	3	3	0	3600	3600	0
3/15/2025 21:00	10801	CHHI_T1	0	0	0	0	0	0	-2.3	-2.29	3	3	0	2100	2100	0
3/15/2025 21:00	24103	EHAZ_T1	0	0	0	0	0	0	-1.54	-1.59	0	0	0	0	0	0
3/15/2025 21:00	24101	EHAZ_T1	15	24	9	0.95	0.25	-0.7	0	0	0	0	0	0	0	0
3/15/2025 21:00	23401	HONE_T2	0	0	0	0	0	0	-0.2	-0.14	0	0	0	0	0	0
3/15/2025 21:00	67002	STHI_T2	0	0	0	0	0	0	1.02	0.94	0	0	0	0	0	0
3/15/2025 21:00	15203	SFAR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 21:00	24102	EHAZ_T1	1	4	3	1	1.3	0.3	0	0	0	0	0	0	0	0
3/15/2025 21:00	67001	STHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/15/2025 21:00	15201	SFAR_T1	1	1	0	0.5	0	-0.5	-0.98	-0.99	2	2	0	1800	1800	0
3/15/2025 21:00	67106	SPRI_T2	0	0	0	0	0	0	-4.02	-4.02	2	2	0	1800	1800	0
3/15/2025 21:00	57201	ROSS_T1	0	0	0	0	0	0	-1.06	-1.07	0	0	0	0	0	0
3/15/2025 21:00	24105	EHAZ_T1	4	4	0	6.7	6.75	0.05	0	0	0	0	0	0	0	0
3/15/2025 21:00	57205	ROSS_T1	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0
3/15/2025 21:00	15603	NSTR_T2	0	0	0	0	0	0	-1.33	-1.28	0	0	0	0	0	0
3/15/2025 21:00	61304	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 21:00	62104	ELAN_T1	0	0	0	0	0	0	-0.35	-0.33	1	1	0	1200	1200	0
3/15/2025 21:00	60102	COCA_T1	0	0	0	0	0	0	-0.89	-0.87	2	2	0	1200	1200	0
3/15/2025 21:01	61304	EARL_T1	0	0	0	0	0	0	-0.39	-0.36	0	0	0	0	0	0
3/15/2025 21:01	44801	EDAN_T2	1	1	0	0.6	0.4	-0.2	-0.5	-0.51	0	0	0	0	0	0
3/15/2025 21:01	52502	PROG_T2	0	0	0	0	0	0	-0.63	-0.71	1	1	0	900	900	0
3/15/2025 21:01	43402	BENT_T1	0	0	0	0	0	0	-1.02	-1.03	1	1	0	900	900	0
3/15/2025 21:01	54501	ENOL_T2	0	0	0	0	0	0	-0.56	-0.57	1	1	0	600	600	0
3/15/2025 21:01	65202	PRIN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/15/2025 21:01	63804	HEMP_T1	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
3/15/2025 21:01	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 21:01	67002	STHI_T2	0	0	0	0	0	0	0.51	0.47	0	0	0	0	0	0
3/15/2025 21:01	61001	DONV_T1	0	0	0	0	0	0	-0.14	-0.18	0	0	0	0	0	0
3/15/2025 21:01	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
3/15/2025 21:01	67001	STHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/15/2025 21:01	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/15/2025 21:01	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.41	0	0	0	0	0	0
3/15/2025 21:01	44901	SCOT_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
3/15/2025 21:01	65205	PRIN_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
3/15/2025 21:01	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/15/2025 21:01	58402	MORO_T1	0	0	0	0	0	0	-0.13	-0.17	2	2	0	1200	1200	0
3/15/2025 21:01	13302	ORVI_T2	12	14	2	0.23	0.33	0.1	1.38	1.32	0	0	0	0	0	0
3/15/2025 21:01	11202	ELHE_T2	0	0	0	0	0	0	0.37	0.38	1	1	0	1200	1200	0
3/15/2025 21:01	63802	HEMP_T1	0	0	0	0	0	0	0.13	0.06	0	0	0	0	0	0
3/15/2025 21:01	62105	ELAN_T1	0	0	0	0	0	0	0.38	0.37	0	0	0	0	0	0
3/15/2025 21:01	44902	SCOT_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/15/2025 21:01	40504	CRES_T1	0	0	0	0	0	0	-0.67	-0.65	0	0	0	0	0	0
3/15/2025 21:02	57201	ROSS_T1	0	0	0	0	0	0	-1.06	-1.07	0	0	0	0	0	0
3/15/2025 21:02	23401	HONE_T2	0	0	0	0	0	0	-0.2	-0.14	0	0	0	0	0	0
3/15/2025 21:02	57003	WHHI_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/15/2025 21:02	64902	MILL_T2	0	0	0	0	0	0	-0.82	-0.81	1	1	0	900	900	0
3/15/2025 21:02	43201	MVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 21:02	24101	EHAZ_T1	15	24	9	0.95	0.25	-0.7	0	0	0	0	0	0	0	0
3/15/2025 21:02	46203	DANV_T2	90	141	51	0.38	0.47	0.09	-1.12	-1.12	0	0	0	0	0	0
3/15/2025 21:02	24102	EHAZ_T1	1	4	3	1	1.3	0.3	-1.07	-1.08	0	0	0	0	0	0
3/15/2025 21:02	43202	MVIL_T2	0	0	0	0	0	0	-0.72	-0.72	0	0	0	0	0	0
3/15/2025 21:02	57002	WHHI_T2	0	0	0	0	0	0	-2.52	-2.54	1	1	0	1200	1200	0
3/15/2025 21:02	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.41	0	0	0	0	0	0
3/15/2025 21:02	24105	EHAZ_T1	4	4	0	6.7	6.75	0.05	0	0	0	0	0	0	0	0
3/15/2025 21:03	16102	BING_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
3/15/2025 21:03	44502	HAMI_T2	1	1	0	2.6	2.8	0.2	0	0	0	0	0	0	0	0
3/15/2025 21:03	62106	ELAN_T1	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
3/15/2025 21:03	61302	EARL_T1	0	0	0	0	0	0	-0.01	-0.05	1	1	0	1200	1200	0
3/15/2025 21:03	57002	WHHI_T2	0	0	0	0	0	0	-2.52	-2.54	1	1	0	1200	1200	0
3/15/2025 21:03	66202	SISP_T2	0	0	0	0	0	0	-1.36	-1.36	0	0	0	0	0	0
3/15/2025 21:03	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 21:03	57003	WHHI_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/15/2025 21:03	63501	HEID_TBK1-2	34	36	2	0.32	0.55	0.23	-0.52	-0.56	1	1	0	900	900	0
3/15/2025 21:03	61304	EARL_T1	0	0	0	0	0	0	-0.39	-0.36	0	0	0	0	0	0
3/15/2025 21:04	63501	HEID_TBK1-2	34	36	2	0.32	0.55	0.23	-0.52	-0.56	1	1	0	900	900	0
3/15/2025 21:04	63804	HEMP_T1	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
3/15/2025 21:04	15203	SFAR_T2	0	0	0	0	0	0	-1.34	-1.41	0	0	0	0	0	0
3/15/2025 21:04	15201	SFAR_T1	1	1	0	0.5	0	-0.5	-0.98	-0.99	2	2	0	1800	1800	0
3/15/2025 21:04	52204	DEVO_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
3/15/2025 21:04	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.21	0	0	0	0	0	0
3/15/2025 21:04	63802	HEMP_T1	0	0	0	0	0	0	0.13	0.06	0	0	0	0	0	0
3/15/2025 21:04	67605	WARW_T1	5	11	6	0.26	0.34	0.08	0	0	0	0	0	0	0	0
3/15/2025 21:04	67904	WNHO_T1	0	0	0	0	0	0	-1.22	-1.22	1	1	0	1200	1200	0
3/15/2025 21:04	11203	ELHE_T1	0	0	0	0	0	0	0.7	0.72	0	0	0	0	0	0
3/15/2025 21:04	45303	WBER_T2	6	6	0	1.5	1.52	0.02	-0.48	-0.5	0	0	0	0	0	0
3/15/2025 21:04	44902	SCOT_T2	0	1	1	0	0.1	0.1	-1.06	-1.03	0	0	0	0	0	0
3/15/2025 21:04	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.29	1	1	0	600	600	0
3/15/2025 21:04	52202	DEVO_T2	0	0	0	0	0	0	-1.47	-1.47	0	0	0	0	0	0
3/15/2025 21:04	67604	WARW_T1	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
3/15/2025 21:05	44902	SCOT_T2	0	1	1	0	0.1	0.1	-1.06	-1.03	0	0	0	0	0	0
3/15/2025 21:05	67106	SPRI_T2	0	0	0	0	0	0	-2.01	-2.01	1	1	0	900	900	0
3/15/2025 21:05	13303	ORVI_T1	0	0	0	0	0	0	0.5	0.52	0	0	0	0	0	0
3/15/2025 21:05	45303	WBER_T2	6	6	0	1.5	1.52	0.02	-0.48	-0.5	0	0	0	0	0	0
3/15/2025 21:05	62102	ELAN_T1	0	0	0	0	0	0	0.69	0.56	0	0	0	0	0	0
3/15/2025 21:05	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 21:06	61703	ELIZ_T1	0	0	0	0	0	0	-2.57	-2.62	2	2	0	2100	2100	0
3/15/2025 21:06	67605	WARW_T1	5	11	6	0.26	0.34	0.08	-0.94	-0.95	0	0	0	0	0	0
3/15/2025 21:06	42701	AUGU_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
3/15/2025 21:06	24204	PROV_T3	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
3/15/2025 21:06	44202	POIN_T2	0	1	1	0	0.1	0.1	-1.02	-1.03	1	1	0	1200	1200	0
3/15/2025 21:06	67001	STHI_T2	1	1	0	0.1	0.2	0.1	0.03	0.02	0	0	0	0	0	0
3/15/2025 21:06	40502	CRES_T2	1	11	10	0.1	0.16	0.06	0.1	0.12	0	0	0	0	0	0
3/15/2025 21:06	44801	EDAN_T2	1	1	0	0.6	0.4	-0.2	-0.51	-0.54	0	0	0	0	0	0
3/15/2025 21:06	24201	PROV_T3	3	3	0	6.57	6.57	0	-0.18	-0.21	0	0	0	0	0	0
3/15/2025 21:06	21203	ECAR_T1	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
3/15/2025 21:06	15203	SFAR_T2	0	0	0	0	0	0	-1.41	-1.4	0	0	0	0	0	0
3/15/2025 21:06	67901	WNHO_T2	9	24	15	0.16	0.16	0	0	0	0	0	0	0	0	0
3/15/2025 21:06	40501	CRES_T2	11	7	-4	0.22	0.17	-0.05	0	0	0	0	0	0	0	0
3/15/2025 21:06	61701	ELIZ_T1	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
3/15/2025 21:06	24902	WHHA_T1	8	6	-2	0.64	1.13	0.49	0.73	0.73	0	0	0	0	0	0
3/15/2025 21:06	15201	SFAR_T1	1	1	0	0.5	0	-0.5	-0.98	-0.99	2	2	0	1800	1800	0
3/15/2025 21:06	60201	ATGL_T2	52	63	11	0.2	0.24	0.04	-0.33	-0.35	0	0	0	0	0	0
3/15/2025 21:07	57104	SPHI_T2	2	0	-2	3.25	0	-3.25	-2	-2.02	1	1	0	900	900	0
3/15/2025 21:07	15203	SFAR_T2	0	0	0	0	0	0	-1.41	-1.4	0	0	0	0	0	0
3/15/2025 21:07	67901	WNHO_T2	9	24	15	0.16	0.16	0	-0.37	-0.37	0	0	0	0	0	0
3/15/2025 21:07	24202	PROV_T4	106	164	58	0.22	0.23	0.01	-0.95	-0.9	1	1	0	1200	1200	0
3/15/2025 21:07	44201	POIN_T1	82	86	4	0.51	0.77	0.26	-2.83	-2.88	1	1	0	1200	1200	0
3/15/2025 21:07	67201	TEHI_T1	0	0	0	0	0	0	0.41	0.42	0	0	0	0	0	0
3/15/2025 21:07	24206	PROV_T4	11	20	9	0.12	0.15	0.03	0	0	0	0	0	0	0	0
3/15/2025 21:07	44505	HAMI_T2	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
3/15/2025 21:07	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/15/2025 21:07	54504	ENOL_T2	0	0	0	0	0	0	-1.1	-1.12	1	1	0	600	600	0
3/15/2025 21:07	45501	DERR_T2	0	0	0	0	0	0	-1	-0.99	2	2	0	1800	1800	0
3/15/2025 21:07	57106	SPHI_T2	3	3	0	2.03	2.1	0.07	0	0	0	0	0	0	0	0
3/15/2025 21:07	57101	SPHI_T2	6	6	0	0.68	0.72	0.04	0	0	0	0	0	0	0	0
3/15/2025 21:07	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/15/2025 21:07	44502	HAMI_T2	1	1	0	2.6	2.8	0.2	0	0	0	0	0	0	0	0
3/15/2025 21:07	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
3/15/2025 21:08	10801	CHHI_T1	0	0	0	0	0	0	-2.29	-1.7	3	2	-1	2100	1500	-600
3/15/2025 21:08	46203	DANV_T2	90	141	51	0.38	0.47	0.09	-2.24	-2.3	0	0	0	0	0	0
3/15/2025 21:08	52202	DEVO_T2	0	0	0	0	0	0	-1.47	-1.44	0	0	0	0	0	0
3/15/2025 21:08	44201	POIN_T1	82	86	4	0.51	0.77	0.26	-2.83	-2.88	1	1	0	1200	1200	0
3/15/2025 21:08	45501	DERR_T2	0	0	0	0	0	0	-1	-0.99	2	2	0	1800	1800	0
3/15/2025 21:08	52204	DEVO_T2	1	0	-1	0.6	0	-0.6	0	0	0	0	0	0	0	0
3/15/2025 21:09	63501	HEID_TBK1-2	34	36	2	0.32	0.55	0.23	-0.56	-0.56	1	1	0	900	900	0
3/15/2025 21:09	58401	MORO_T1	0	0	0	0	0	0	-1.29	-1.29	1	1	0	600	600	0
3/15/2025 21:10	54505	ENOL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/15/2025 21:10	57003	WHHI_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/15/2025 21:10	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 21:10	64203	KINZ_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
3/15/2025 21:10	67502	WEWI_T2	79	218	139	0.2	0.26	0.06	0	0	0	0	0	0	0	0
3/15/2025 21:10	64201	KINZ_T1	2	1	-1	0.7	0.7	0	0	0	0	0	0	0	0	0
3/15/2025 21:10	64202	KINZ_T1	3	3	0	0.47	0.5	0.03	0	0	0	0	0	0	0	0
3/15/2025 21:10	64101	REFR_T1	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
3/15/2025 21:10	61701	ELIZ_T1	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
3/15/2025 21:10	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 21:10	54502	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/15/2025 21:10	64204	KINZ_T1	1	1	0	1.4	0.8	-0.6	0	0	0	0	0	0	0	0
3/15/2025 21:10	61703	ELIZ_T1	0	0	0	0	0	0	-2.57	-2.62	2	2	0	2100	2100	0
3/15/2025 21:10	42701	AUGU_T1	1	1	0	0.8	1.1	0.3	0	0	2	2	0	1800	1800	0
3/15/2025 21:10	67901	WNHO_T2	9	24	15	0.16	0.16	0	-0.37	-0.37	0	0	0	0	0	0
3/15/2025 21:10	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 21:11	63804	HEMP_T1	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
3/15/2025 21:11	61304	EARL_T1	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
3/15/2025 21:11	61703	ELIZ_T1	0	0	0	0	0	0	-2.57	-2.62	2	2	0	2100	2100	0
3/15/2025 21:11	15203	SFAR_T2	0	0	0	0	0	0	-1.41	-1.4	0	0	0	0	0	0
3/15/2025 21:11	15203	SFAR_T2	0	0	0	0	0	0	-1.41	-1.4	0	0	0	0	0	0
3/15/2025 21:11	15203	SFAR_T2	0	0	0	0	0	0	-1.41	-1.4	0	0	0	0	0	0
3/15/2025 21:11	15203	SFAR_T2	0	0	0	0	0	0	-1.41	-1.4	0	0	0	0	0	0
3/15/2025 21:11	21206	ECAR_T2	1	1	0	7.6	7.6	0	1.15	1.17	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/15/2025 21:11	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 21:11	64101	REFR_T1	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
3/15/2025 21:11	61701	ELIZ_T1	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
3/15/2025 21:11	63801	HEMP_T1	0	0	0	0	0	0	0.05	-0.49	0	0	0	0	0	0
3/15/2025 21:11	60801	BUCK_T1	0	7	7	0	0.1	0.1	-0.27	-0.24	0	0	0	0	0	0
3/15/2025 21:12	15204	SFAR_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
3/15/2025 21:12	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 21:12	61703	ELIZ_T1	0	0	0	0	0	0	-2.57	-2.62	2	2	0	2100	2100	0
3/15/2025 21:12	67402	WAKE_T2	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
3/15/2025 21:12	61701	ELIZ_T1	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
3/15/2025 21:12	60104	COCA_T2	3	4	1	0.27	0.48	0.21	0	0	0	0	0	0	0	0
3/15/2025 21:12	15203	SFAR_T2	0	0	0	0	0	0	-1.41	-1.4	0	0	0	0	0	0
3/15/2025 21:12	57205	ROSS_T1	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0
3/15/2025 21:12	55105	WERT_T1	0	0	0	0	0	0	-0.72	-0.74	1	1	0	900	900	0
3/15/2025 21:13	61304	EARL_T1	0	0	0	0	0	0	-0.36	-0.4	0	0	0	0	0	0
3/15/2025 21:13	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
3/15/2025 21:13	20102	AVOC_T1	0	0	0	0	0	0	-0.86	-0.88	0	0	0	0	0	0
3/15/2025 21:13	22101	EDEL_T2	0	0	0	0	0	0	0.3	0.3	1	1	0	1200	1200	0
3/15/2025 21:14	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 21:14	57003	WHHI_T2	1	2	1	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/15/2025 21:14	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 21:14	15203	SFAR_T2	0	0	0	0	0	0	-1.41	-1.4	0	0	0	0	0	0
3/15/2025 21:14	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 21:15	64101	REFR_T1	0	0	0	0	0	0	-0.21	-0.2	0	0	0	0	0	0
3/15/2025 21:15	23502	GEOR_T1	0	0	0	0	0	0	-0.5	-0.53	0	0	0	0	0	0
3/15/2025 21:15	20103	AVOC_T1	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
3/15/2025 21:15	20201	JERM_T1	0	0	0	0	0	0	0.25	0.28	1	1	0	1200	1200	0
3/15/2025 21:16	15203	SFAR_T2	0	0	0	0	0	0	-1.41	-1.4	0	0	0	0	0	0
3/15/2025 21:16	21206	ECAR_T2	1	1	0	7.1	7.8	0.7	1.15	1.17	0	0	0	0	0	0
3/15/2025 21:16	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 21:16	67402	WAKE_T2	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
3/15/2025 21:17	24204	PROV_T3	1	1	0	6.1	5.9	-0.2	0	0	0	0	0	0	0	0
3/15/2025 21:17	24201	PROV_T3	3	3	0	6.63	6.37	-0.26	-0.21	-0.18	0	0	0	0	0	0
3/15/2025 21:18	52502	PROG_T2	0	0	0	0	0	0	-0.71	0.28	1	0	-1	900	0	-900
3/15/2025 21:19	63804	HEMP_T1	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
3/15/2025 21:19	58202	NEWV_T1	8	8	0	0.96	1.08	0.12	-0.3	-0.29	0	0	0	0	0	0
3/15/2025 21:19	58201	NEWV_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0
3/15/2025 21:19	63802	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 21:22	52502	PROG_T2	0	0	0	0	0	0	0.28	-0.56	0	1	1	0	900	900
3/15/2025 21:28	27201	YATE_T1	10	10	0	5.58	5.43	-0.15	-1.41	-1.42	0	0	0	0	0	0
3/15/2025 21:46	44301	BEAV_T2	0	1	1	0	0.2	0.2	-1.19	-1.2	1	1	0	600	600	0
3/15/2025 22:12	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2025 22:59	61001	DONV_T1	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
3/15/2025 23:54	63601	LETO_T1	0	0	0	0	0	0	0.86	0.97	1	1	0	900	900	0
3/15/2025 23:57	63601	LETO_T1	0	0	0	0	0	0	0.86	0.97	1	1	0	900	900	0
3/16/2025 8:54	13604	RICH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 9:35	64203	KINZ_T1	0	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0
3/16/2025 9:35	64204	KINZ_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/16/2025 10:00	47401	PENS_T1	0	1	1	0	0	0	0.62	0.64	0	0	0	0	0	0
3/16/2025 10:00	67503	WEWI_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
3/16/2025 10:00	28102	TWLA_T2	1	0	-1	0.1	0	-0.1	0.22	0.2	0	0	0	0	0	0
3/16/2025 10:00	10705	CATA_T2	0	0	0	0	0	0	-0.06	-0.05	0	0	0	0	0	0
3/16/2025 10:00	40505	CRES_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
3/16/2025 10:00	53902	HALI_T2	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
3/16/2025 10:00	48302	ORWI_T2	2	2	0	7	7.15	0.15	-0.12	-0.12	0	0	0	0	0	0
3/16/2025 10:00	57002	WHHI_T2	0	0	0	0	0	0	-2.47	-2.5	1	1	0	1200	1200	0
3/16/2025 10:00	53901	HALI_T2	0	1	1	0	0.1	0.1	-1.01	-1.03	0	0	0	0	0	0
3/16/2025 10:00	53903	HALI_T2	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0	0
3/16/2025 10:07	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 10:13	44801	EDAN_T2	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
3/16/2025 10:14	44801	EDAN_T2	0	0	0	0	0	0	-0.51	-0.53	0	0	0	0	0	0
3/16/2025 10:24	13606	RICH_T2	0	0	0	0	0	0	0.3	0.35	0	0	0	0	0	0
3/16/2025 10:29	23502	GEOR_T1	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
3/16/2025 10:33	64201	KINZ_T1	1	1	0	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
3/16/2025 10:33	64204	KINZ_T1	1	1	0	0.7	1.2	0.5	0	0	0	0	0	0	0	0
3/16/2025 10:33	64203	KINZ_T1	0	0	0	0	0	0	0.02	0.06	0	0	0	0	0	0
3/16/2025 10:41	10801	CHHI_T1	0	0	0	0	0	0	-2.26	-2.27	3	3	0	2100	2100	0
3/16/2025 10:48	13905	SEID_T1	0	0	0	0	0	0	0.19	0.21	0	0	0	0	0	0
3/16/2025 10:56	46206	DANV_T2	0	0	0	0	0	0	0.99	0.98	1	1	0	1200	1200	0
3/16/2025 10:56	46203	DANV_T2	197	213	16	0.79	0.85	0.06	0	0	0	0	0	0	0	0
3/16/2025 10:57	46203	DANV_T2	197	213	16	0.79	0.85	0.06	0	0	0	0	0	0	0	0
3/16/2025 10:57	46206	DANV_T2	0	0	0	0	0	0	0.99	0.98	1	1	0	1200	1200	0
3/16/2025 11:39	44901	SCOT_T2	0	0	0	0	0	0	-0.5	-0.47	0	0	0	0	0	0
3/16/2025 11:40	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
3/16/2025 11:42	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/16/2025 11:43	60201	ATGL_T2	0	0	0	0	0	0	-0.41	-0.41	0	0	0	0	0	0
3/16/2025 11:44	63501	HEID_TBK1-2	1	1	0	1.1	1.2	0.1	0.29	0.33	0	0	0	0	0	0
3/16/2025 11:46	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
3/16/2025 11:50	58402	MORO_T1	0	0	0	0	0	0	-0.54	-0.5	2	2	0	1500	1500	0
3/16/2025 11:51	47401	PENS_T1	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
3/16/2025 11:53	47401	PENS_T1	0	0	0	0	0	0	0.75	0.71	0	0	0	0	0	0
3/16/2025 11:54	65804	RTWN_T1	0	0	0	0	0	0	0	0.04	1	1	0	600	600	0
3/16/2025 11:55	65804	RTWN_T1	0	0	0	0	0	0	0	0.04	1	1	0	600	600	0
3/16/2025 11:56	67901	WNHO_T2	0	0	0	0	0	0	-0.31	-0.31	0	0	0	0	0	0
3/16/2025 11:57	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 11:58	46001	BERW_T1	0	0	0	0	0	0	0.36	0.37	0	0	0	0	0	0
3/16/2025 12:02	41502	FAIR_T2	0	0	0	0	0	0	-1.7	-1.71	1	1	0	900	900	0
3/16/2025 12:12	60201	ATGL_T2	0	7	7	0	0.13	0.13	-0.36	-0.38	0	0	0	0	0	0
3/16/2025 12:17	64202	KINZ_T1	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/16/2025 12:17	64201	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/16/2025 12:17	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 12:17	64204	KINZ_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
3/16/2025 12:42	60201	ATGL_T2	7	28	21	0.13	0.15	0.02	-0.44	-0.4	0	0	0	0	0	0
3/16/2025 12:46	64403	LAND_T1	0	0	0	0	0	0	-2.02	-2.05	1	1	0	900	900	0
3/16/2025 12:47	64202	KINZ_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
3/16/2025 12:47	64203	KINZ_T1	0	0	0	0	0	0	0.08	0.01	0	0	0	0	0	0
3/16/2025 12:47	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/16/2025 12:47	64201	KINZ_T1	1	1	0	0.2	1.1	0.9	0	0	0	0	0	0	0	0
3/16/2025 12:47	64403	LAND_T1	0	0	0	0	0	0	-2.02	-2.05	1	1	0	900	900	0
3/16/2025 12:49	13303	ORVI_T1	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
3/16/2025 12:49	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 12:49	64701	LITI_T1	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
3/16/2025 12:49	52101	MEIS_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/16/2025 12:50	64201	KINZ_T1	1	1	0	0.2	1.1	0.9	-0.69	-0.73	2	2	0	1200	1200	0
3/16/2025 12:50	64202	KINZ_T1	2	1	-1	0.25	0.2	-0.05	0	0	0	0	0	0	0	0
3/16/2025 12:50	64204	KINZ_T1	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/16/2025 12:53	13303	ORVI_T1	0	0	0	0	0	0	0.56	0.57	0	0	0	0	0	0
3/16/2025 12:54	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 12:54	24202	PROV_T4	0	0	0	0	0	0	-0.78	-0.83	1	1	0	1200	1200	0
3/16/2025 13:02	12004	HATF_T1	5	4	-1	0.18	0.23	0.05	0	0	0	0	0	0	0	0
3/16/2025 13:02	12001	HATF_T1	0	0	0	0	0	0	1.91	1.65	0	0	0	0	0	0
3/16/2025 13:02	12005	HATF_T1	5	4	-1	0.18	0.18	0	0	0	0	0	0	0	0	0
3/16/2025 13:04	12003	HATF_T1	0	0	0	0	0	0	0.88	0.87	0	0	0	0	0	0
3/16/2025 13:04	12001	HATF_T1	0	0	0	0	0	0	3.81	3.31	0	0	0	0	0	0
3/16/2025 13:04	12005	HATF_T1	5	4	-1	0.18	0.18	0	0	0	0	0	0	0	0	0
3/16/2025 13:04	12004	HATF_T1	5	4	-1	0.18	0.23	0.05	0	0	0	0	0	0	0	0
3/16/2025 13:07	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 13:15	22001	BOHE_T1	4	4	0	0.1	0.1	0	-0.25	-0.24	1	1	0	600	600	0
3/16/2025 13:15	22003	BOHE_T1	21	23	2	0.22	0.26	0.04	0	0	0	0	0	0	0	0
3/16/2025 13:15	10903	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 13:15	22002	BOHE_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/16/2025 13:17	63501	HEID_TBK1-2	1	0	-1	0.8	0	-0.8	0.28	0.32	0	0	0	0	0	0
3/16/2025 13:26	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
3/16/2025 13:37	58401	MORO_T1	0	0	0	0	0	0	-2.48	-2.54	2	2	0	1200	1200	0
3/16/2025 13:42	23604	WRIG_T1	0	0	0	0	0	0	-0.18	-0.19	0	0	0	0	0	0
3/16/2025 13:46	60102	COCA_T1	0	0	0	0	0	0	-0.88	-0.85	2	2	0	1200	1200	0
3/16/2025 13:47	60104	COCA_T2	2	4	2	0.15	0.38	0.23	0	0	0	0	0	0	0	0
3/16/2025 13:47	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 13:56	44301	BEAV_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/16/2025 13:56	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
3/16/2025 13:57	61304	EARL_T1	0	0	0	0	0	0	-1.06	-1.03	1	1	0	600	600	0
3/16/2025 13:57	44301	BEAV_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/16/2025 13:58	44301	BEAV_T2	1	1	0	0.2	0.2	0	-1.03	-1.04	1	1	0	600	600	0
3/16/2025 14:02	64401	LAND_T1	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
3/16/2025 14:03	64704	LITI_T1	0	0	0	0	0	0	-0.2	-0.2	2	2	0	1200	1200	0
3/16/2025 14:04	64401	LAND_T1	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
3/16/2025 14:05	64401	LAND_T1	0	0	0	0	0	0	-0.53	-0.53	0	0	0	0	0	0
3/16/2025 14:16	17802	GILB_T1	0	0	0	0	0	0	-0.05	0.06	0	0	0	0	0	0
3/16/2025 14:22	58401	MORO_T1	0	0	0	0	0	0	-2.46	-2.48	2	2	0	1200	1200	0
3/16/2025 14:23	67604	WARW_T1	0	0	0	0	0	0	-0.15	-0.12	0	0	0	0	0	0
3/16/2025 14:23	67605	WARW_T1	7	3	-4	0.24	0.2	-0.04	0	0	0	0	0	0	0	0
3/16/2025 14:29	15603	NSTR_T2	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
3/16/2025 14:32	59402	RFLD_T2	0	0	0	0	0	0	-0.94	-0.94	1	1	0	450	450	0
3/16/2025 14:34	64704	LITI_T1	0	0	0	0	0	0	-0.1	-0.13	1	1	0	600	600	0
3/16/2025 14:37	58401	MORO_T1	0	0	0	0	0	0	-2.48	-2.48	2	2	0	1200	1200	0
3/16/2025 14:39	54601	SUMM_T2	1	2	1	0.1	0.1	0	-1.9	-1.91	2	2	0	2100	2100	0
3/16/2025 14:39	44902	SCOT_T2	0	0	0	0	0	0	-1.72	-1.93	0	0	0	0	0	0
3/16/2025 14:39	44901	SCOT_T2	4	22	18	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/16/2025 14:45	65502	MOJO_T2	7	0	-7	0.46	0	-0.46	0	0	0	0	0	0	0	0
3/16/2025 14:45	65503	MOJO_T2	25	0	-25	0.44	0	-0.44	0	0	0	0	0	0	0	0
3/16/2025 14:46	52403	GRPA_T2	5	0	-5	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/16/2025 14:46	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/16/2025 14:46	52402	GRPA_T2	4	3	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/16/2025 14:47	52401	GRPA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/16/2025 14:47	52403	GRPA_T2	5	0	-5	0.3	0	-0.3	-0.75	-0.69	0	0	0	0	0	0
3/16/2025 14:47	52402	GRPA_T2	4	3	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/16/2025 14:50	65502	MOJO_T2	7	0	-7	0.46	0	-0.46	0	0	0	0	0	0	0	0
3/16/2025 14:50	65503	MOJO_T2	25	0	-25	0.44	0	-0.44	0	0	0	0	0	0	0	0
3/16/2025 14:50	44801	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 14:50	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/16/2025 14:52	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
3/16/2025 14:52	58102	NEKI_T1	1	1	0	1.1	1	-0.1	-1.23	-1.1	1	1	0	1200	1200	0
3/16/2025 14:53	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/16/2025 14:54	64101	REFR_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
3/16/2025 14:55	64101	REFR_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/16/2025 14:59	65802	RTWN_T2	0	0	0	0	0	0	-0.25	-0.26	0	0	0	0	0	0
3/16/2025 15:05	63804	HEMP_T1	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
3/16/2025 15:05	63801	HEMP_T1	0	0	0	0	0	0	-0.38	-0.39	0	0	0	0	0	0
3/16/2025 15:11	65502	MOJO_T2	0	81	81	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 15:16	62606	ENGL_T1	0	18	18	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 15:16	62604	ENGL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 15:17	62604	ENGL_T1	0	0	0	0	0	0	-2.32	-2.39	2	2	0	1200	1200	0
3/16/2025 15:17	62606	ENGL_T1	0	18	18	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 15:18	27201	YATE_T1	10	64	54	7.41	8.95	1.54	-1.45	-1.47	0	0	0	0	0	0
3/16/2025 15:18	27204	YATE_T1	0	15	15	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 15:18	27205	YATE_T1	0	134	134	0	0.48	0.48	0	0	0	0	0	0	0	0
3/16/2025 15:20	62604	ENGL_T1	0	0	0	0	0	0	-1.16	-1.19	1	1	0	600	600	0
3/16/2025 15:20	62606	ENGL_T1	0	18	18	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 15:21	62604	ENGL_T1	0	0	0	0	0	0	-1.19	-1.13	1	1	0	600	600	0
3/16/2025 15:21	52502	PROG_T2	0	0	0	0	0	0	-0.71	-0.69	1	1	0	900	900	0
3/16/2025 15:21	46102	MACI_T1	0	0	0	0	0	0	0.58	0.58	0	0	0	0	0	0
3/16/2025 15:21	62606	ENGL_T1	0	18	18	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 15:22	52502	PROG_T2	0	0	0	0	0	0	-1.38	-1.4	2	2	0	1800	1800	0
3/16/2025 15:23	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 15:23	52502	PROG_T2	0	0	0	0	0	0	-0.69	-0.7	1	1	0	900	900	0
3/16/2025 15:25	52502	PROG_T2	0	0	0	0	0	0	-0.69	-0.7	1	1	0	900	900	0
3/16/2025 15:26	40601	PIGR_T1	0	0	0	0	0	0	-0.83	-0.86	0	0	0	0	0	0
3/16/2025 15:26	40602	PIGR_T1	0	11	11	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 15:27	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 15:27	40602	PIGR_T1	0	11	11	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 15:29	40602	PIGR_T1	0	11	11	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 15:29	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 15:31	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/16/2025 15:31	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/16/2025 15:31	54503	ENOL_T2	0	0	0	0	0	0	-1.11	-1.12	1	1	0	600	600	0
3/16/2025 15:31	40601	PIGR_T1	0	0	0	0	0	0	-0.83	-0.86	0	0	0	0	0	0
3/16/2025 15:46	54501	ENOL_T2	0	0	0	0	0	0	-0.58	-0.58	1	1	0	600	600	0
3/16/2025 15:46	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/16/2025 15:46	54506	ENOL_T2	0	0	0	0	0	0	-1.22	-1.19	1	1	0	600	600	0
3/16/2025 15:46	54502	ENOL_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
3/16/2025 15:47	17803	GILB_T2	6	7	1	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/16/2025 15:47	17805	GILB_T2	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
3/16/2025 15:48	54505	ENOL_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/16/2025 15:48	54502	ENOL_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
3/16/2025 15:48	54501	ENOL_T2	0	0	0	0	0	0	-0.58	-0.58	1	1	0	600	600	0
3/16/2025 15:49	52402	GRPA_T2	6	5	-1	0.32	0.3	-0.02	0	0	0	0	0	0	0	0
3/16/2025 15:49	52403	GRPA_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
3/16/2025 15:51	66502	SMAN_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
3/16/2025 15:51	58401	MORO_T1	2	2	0	0.4	0.4	0	-2.38	-2.48	2	2	0	1200	1200	0
3/16/2025 15:53	48301	ORWI_T1	2	2	0	5.2	5.3	0.1	-0.81	-0.9	0	0	0	0	0	0
3/16/2025 15:55	55105	WERT_T1	0	0	0	0	0	0	-0.73	-0.77	1	1	0	900	900	0
3/16/2025 15:55	14603	SWHI_T1	0	0	0	0	0	0	-1.06	-1.05	1	1	0	600	600	0
3/16/2025 15:56	14603	SWHI_T1	0	0	0	0	0	0	-1.06	-1.05	1	1	0	600	600	0
3/16/2025 15:58	14603	SWHI_T1	0	0	0	0	0	0	-1.06	-1.05	1	1	0	600	600	0
3/16/2025 16:01	66202	SISP_T2	0	0	0	0	0	0	-1.31	-1.25	0	0	0	0	0	0
3/16/2025 16:04	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 16:13	62601	ENGL_T1	1	0	-1	2.5	0	-2.5	0	0	0	0	0	0	0	0
3/16/2025 16:13	62607	ENGL_T1	1	0	-1	5.1	0	-5.1	0	0	0	0	0	0	0	0
3/16/2025 16:13	62605	ENGL_T1	1	0	-1	1.2	0	-1.2	0	0	0	0	0	0	0	0
3/16/2025 16:13	62606	ENGL_T1	2209	23	-2186	2.08	0	-2.08	0.02	0.01	1	1	0	900	900	0
3/16/2025 16:15	17805	GILB_T2	0	0	0	0	0	0	-0.22	-0.2	0	0	0	0	0	0
3/16/2025 16:15	17803	GILB_T2	6	4	-2	0.15	0.18	0.03	0	0	0	0	0	0	0	0
3/16/2025 16:18	12006	HATF_T1	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
3/16/2025 16:21	52402	GRPA_T2	5	1	-4	0.26	0.1	-0.16	0	0	0	0	0	0	0	0
3/16/2025 16:21	52403	GRPA_T2	1	1	0	0.8	0	-0.8	-0.62	-0.57	0	0	0	0	0	0
3/16/2025 16:21	67603	WARW_T1	0	0	0	0	0	0	-0.07	-0.07	0	0	0	0	0	0
3/16/2025 16:21	67605	WARW_T1	14	8	-6	0.36	0.35	-0.01	0	0	0	0	0	0	0	0
3/16/2025 16:22	65202	PRIN_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/16/2025 16:22	65205	PRIN_T1	1	1	0	1.9	1.9	0	0	0	0	0	0	0	0	0
3/16/2025 16:23	54601	SUMM_T2	1	1	0	0.3	0.1	-0.2	-1.82	-1.83	2	2	0	2100	2100	0
3/16/2025 16:25	67605	WARW_T1	14	8	-6	0.36	0.35	-0.01	-1.17	-1.15	0	0	0	0	0	0
3/16/2025 16:34	23404	HONE_T1	0	31	31	0	0.12	0.12	0	0	0	0	0	0	0	0
3/16/2025 16:34	23403	HONE_T1	8	110	102	0.11	0.15	0.04	-0.78	-0.76	0	0	0	0	0	0
3/16/2025 16:34	63201	MGTN_T2	0	0	0	0	0	0	0.99	0.96	1	1	0	600	600	0
3/16/2025 16:34	61001	DONV_T1	0	0	0	0	0	0	-0.11	-0.05	0	0	0	0	0	0
3/16/2025 16:37	62604	ENGL_T1	0	0	0	0	0	0	-1.14	-1.18	1	1	0	600	600	0
3/16/2025 16:37	60301	TWVA_T2	0	0	0	0	0	0	-1.94	-1.95	2	2	0	1800	1800	0
3/16/2025 16:40	63201	MGTN_T2	0	0	0	0	0	0	0.96	0.97	1	1	0	600	600	0
3/16/2025 16:57	55105	WERT_T1	0	0	0	0	0	0	-0.77	-0.79	1	1	0	900	900	0
3/16/2025 17:00	63804	HEMP_T1	1	1	0	5.7	5.6	-0.1	0.77	0.79	0	0	0	0	0	0
3/16/2025 17:00	44801	EDAN_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/16/2025 17:02	61102	BERK_T5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 17:13	41602	CLEV_T1	36	1	-35	0.2	0.3	0.1	0	0	1	0	-1	600	0	-600
3/16/2025 17:35	64801	MONE_T2	1	1	0	0.4	0.5	0.1	0.18	0.19	0	0	0	0	0	0
3/16/2025 19:41	59402	RFLD_T2	0	0	0	0	0	0	-0.91	-0.92	1	1	0	450	450	0
3/16/2025 19:54	55105	WERT_T1	1	2	1	10	1.4	-8.6	0	0	0	0	0	0	0	0
3/16/2025 20:12	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 20:14	44801	EDAN_T2	1	2	1	2.1	1.7	-0.4	-0.37	-0.52	0	0	0	0	0	0
3/16/2025 20:17	44801	EDAN_T2	1	2	1	1.7	1.8	0.1	-0.37	-0.52	0	0	0	0	0	0
3/16/2025 20:21	41502	FAIR_T2	0	0	0	0	0	0	-1.7	-1.71	1	1	0	900	900	0
3/16/2025 20:25	44801	EDAN_T2	1	2	1	1.7	1.8	0.1	-0.52	-0.4	0	0	0	0	0	0
3/16/2025 20:29	13606	RICH_T2	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
3/16/2025 20:29	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 20:31	44901	SCOT_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
3/16/2025 20:31	44902	SCOT_T2	35	117	82	0.11	0.11	0	-2.14	-2.12	0	0	0	0	0	0
3/16/2025 20:34	54601	SUMM_T2	1	2	1	0.2	0.35	0.15	-1.87	-1.87	2	2	0	2100	2100	0
3/16/2025 20:36	24202	PROV_T4	34	72	38	0.18	0.2	0.02	-0.85	-0.84	1	1	0	1200	1200	0
3/16/2025 20:36	24206	PROV_T4	4	15	11	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/16/2025 20:42	48301	ORWI_T1	2	2	0	5.4	5.25	-0.15	-0.07	-0.08	0	0	0	0	0	0
3/16/2025 20:48	61102	BERK_T5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 20:49	27201	YATE_T1	10	10	0	5.48	5.32	-0.16	-1.4	-1.46	0	0	0	0	0	0
3/16/2025 20:50	47401	PENS_T1	0	0	0	0	0	0	0.67	0.62	0	0	0	0	0	0
3/16/2025 20:51	44902	SCOT_T2	17	119	102	0.11	0.11	0	0	0	0	0	0	0	0	0
3/16/2025 20:51	44901	SCOT_T2	4	6	2	0.1	0.2	0.1	-0.61	-0.56	0	0	0	0	0	0
3/16/2025 20:52	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 20:52	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 20:53	17803	GILB_T2	7	1	-6	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
3/16/2025 20:53	17805	GILB_T2	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
3/16/2025 20:54	58402	MORO_T1	0	0	0	0	0	0	0.03	0.03	1	1	0	900	900	0
3/16/2025 20:54	17802	GILB_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
3/16/2025 20:54	60301	TWVA_T2	0	1	1	0	0	0	-3.32	-3.29	2	2	0	1800	1800	0
3/16/2025 20:55	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 20:55	26102	THRO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 20:55	58401	MORO_T1	0	0	0	0	0	0	-2.68	-2.68	2	2	0	1200	1200	0
3/16/2025 20:56	22003	BOHE_T1	0	1302	1302	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 20:56	22001	BOHE_T1	0	0	0	0	0	0	-0.34	-0.33	1	1	0	600	600	0
3/16/2025 20:56	12003	HATF_T1	0	0	0	0	0	0	0.79	0.85	0	0	0	0	0	0
3/16/2025 20:56	58401	MORO_T1	0	0	0	0	0	0	-1.34	-1.34	1	1	0	600	600	0
3/16/2025 20:57	52502	PROG_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	900	900	0
3/16/2025 20:57	17805	GILB_T2	0	0	0	0	0	0	-0.23	-0.26	0	0	0	0	0	0
3/16/2025 20:57	17803	GILB_T2	7	1	-6	0.16	0.1	-0.06	0	0	0	0	0	0	0	0
3/16/2025 20:57	44301	BEAV_T2	0	0	0	0	0	0	-1.11	-1.15	1	1	0	600	600	0
3/16/2025 20:57	62604	ENGL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 20:57	10903	COOP_T2	0	6	6	0	0.1	0.1	0	0	0	0	0	0	0	0
3/16/2025 20:58	62604	ENGL_T1	0	0	0	0	0	0	-1.17	-1.21	1	1	0	600	600	0
3/16/2025 20:58	15601	NSTR_T2	3	2	-1	0.47	0.35	-0.12	0	0	0	0	0	0	0	0
3/16/2025 20:58	58401	MORO_T1	0	0	0	0	0	0	-1.34	-1.34	1	1	0	600	600	0
3/16/2025 20:58	15603	NSTR_T2	0	0	0	0	0	0	-0.66	-0.64	0	0	0	0	0	0
3/16/2025 20:59	64801	MONE_T2	1	2	1	0.8	1	0.2	-0.06	-0.05	0	0	0	0	0	0
3/16/2025 20:59	58401	MORO_T1	0	0	0	0	0	0	-1.34	-1.34	1	1	0	600	600	0
3/16/2025 21:00	64203	KINZ_T1	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
3/16/2025 21:00	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/16/2025 21:00	64204	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/16/2025 21:00	13905	SEID_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
3/16/2025 21:00	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/16/2025 21:00	62604	ENGL_T1	0	0	0	0	0	0	-1.17	-1.21	1	1	0	600	600	0
3/16/2025 21:00	64201	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
3/16/2025 21:00	10801	CHHI_T1	0	0	0	0	0	0	-1.62	-1.67	2	2	0	1500	1500	0
3/16/2025 21:00	54501	ENOL_T2	1	4	3	0.1	0.18	0.08	-0.59	-0.59	1	1	0	600	600	0
3/16/2025 21:00	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 21:01	58401	MORO_T1	0	0	0	0	0	0	-1.34	-1.34	1	1	0	600	600	0
3/16/2025 21:01	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/16/2025 21:01	54501	ENOL_T2	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/16/2025 21:01	54506	ENOL_T2	0	0	0	0	0	0	-1.22	-1.23	1	1	0	600	600	0
3/16/2025 21:01	14603	SWHI_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	600	600	0
3/16/2025 21:01	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 21:01	52502	PROG_T2	0	0	0	0	0	0	-0.76	-0.76	1	1	0	900	900	0
3/16/2025 21:01	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/16/2025 21:02	14603	SWHI_T1	0	0	0	0	0	0	-1.06	-1.07	1	1	0	600	600	0
3/16/2025 21:02	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 21:02	60102	COCA_T1	0	0	0	0	0	0	-0.18	-0.18	2	2	0	1200	1200	0
3/16/2025 21:02	64204	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/16/2025 21:02	64201	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
3/16/2025 21:02	23403	HONE_T1	0	0	0	0	0	0	-0.82	-0.76	0	0	0	0	0	0
3/16/2025 21:02	13303	ORVI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 21:02	12001	HATF_T1	0	0	0	0	0	0	1.08	1.06	0	0	0	0	0	0
3/16/2025 21:03	64204	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/16/2025 21:03	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/16/2025 21:03	64201	KINZ_T1	1	1	0	0.8	1.1	0.3	-0.69	-0.7	2	2	0	1200	1200	0
3/16/2025 21:03	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 21:03	62604	ENGL_T1	0	0	0	0	0	0	-1.17	-1.21	1	1	0	600	600	0
3/16/2025 21:03	54501	ENOL_T2	1	4	3	0.1	0.18	0.08	-0.59	-0.59	1	1	0	600	600	0
3/16/2025 21:03	60201	ATGL_T2	0	0	0	0	0	0	-0.29	-0.33	0	0	0	0	0	0
3/16/2025 21:03	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/16/2025 21:04	60201	ATGL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 21:04	62604	ENGL_T1	0	0	0	0	0	0	-1.17	-1.21	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/16/2025 21:04	52402	GRPA_T2	4	4	0	0.23	0.55	0.32	0	0	0	0	0	0	0	0
3/16/2025 21:04	67402	WAKE_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
3/16/2025 21:05	58102	NEKI_T1	2	2	0	0.95	0.95	0	-1.41	-1.33	1	1	0	1200	1200	0
3/16/2025 21:05	12001	HATF_T1	0	0	0	0	0	0	1.08	1.06	0	0	0	0	0	0
3/16/2025 21:06	54505	ENOL_T2	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0	0
3/16/2025 21:06	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/16/2025 21:06	54503	ENOL_T2	0	0	0	0	0	0	-1.17	-1.16	1	1	0	600	600	0
3/16/2025 21:06	60201	ATGL_T2	0	0	0	0	0	0	-0.33	-0.4	0	0	0	0	0	0
3/16/2025 21:06	65205	PRIN_T1	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
3/16/2025 21:06	65202	PRIN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/16/2025 21:06	67402	WAKE_T2	0	0	0	0	0	0	0.11	0.11	0	0	0	0	0	0
3/16/2025 21:06	54501	ENOL_T2	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/16/2025 21:07	63804	HEMP_T1	1	1	0	5.7	5.5	-0.2	0.72	0.67	0	0	0	0	0	0
3/16/2025 21:07	64401	LAND_T1	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
3/16/2025 21:07	13303	ORVI_T1	0	1	1	0	0	0	0.47	0.47	0	0	0	0	0	0
3/16/2025 21:07	64204	KINZ_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/16/2025 21:07	64201	KINZ_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
3/16/2025 21:07	12001	HATF_T1	0	0	0	0	0	0	1.06	1.06	0	0	0	0	0	0
3/16/2025 21:07	63501	HEID_TBK1-2	1	1	0	1.2	0.5	-0.7	0.26	0.34	0	0	0	0	0	0
3/16/2025 21:07	67901	WNHO_T2	0	0	0	0	0	0	-0.43	-0.38	0	0	0	0	0	0
3/16/2025 21:07	64203	KINZ_T1	0	0	0	0	0	0	0	0.06	0	0	0	0	0	0
3/16/2025 21:07	61304	EARL_T1	0	1	1	0	0.1	0.1	-1.1	-1.09	1	1	0	600	600	0
3/16/2025 21:07	12006	HATF_T1	0	0	0	0	0	0	0.39	0.34	0	0	0	0	0	0
3/16/2025 21:08	13303	ORVI_T1	0	1	1	0	0	0	0.47	0.47	0	0	0	0	0	0
3/16/2025 21:08	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 21:08	64704	LITI_T1	0	0	0	0	0	0	-0.24	-0.24	1	1	0	600	600	0
3/16/2025 21:08	23502	GEOR_T1	0	0	0	0	0	0	-0.51	-0.5	0	0	0	0	0	0
3/16/2025 21:09	60201	ATGL_T2	0	0	0	0	0	0	-0.33	-0.4	0	0	0	0	0	0
3/16/2025 21:09	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
3/16/2025 21:10	14603	SWHI_T1	0	0	0	0	0	0	-1.07	-1.07	1	1	0	600	600	0
3/16/2025 21:10	52502	PROG_T2	0	0	0	0	0	0	-0.76	-0.78	1	1	0	900	900	0
3/16/2025 21:10	64701	LITI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 21:10	67603	WARW_T1	0	0	0	0	0	0	-0.13	-0.15	0	0	0	0	0	0
3/16/2025 21:10	67605	WARW_T1	22	37	15	0.47	0.5	0.03	0	0	0	0	0	0	0	0
3/16/2025 21:11	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
3/16/2025 21:11	46102	MACI_T1	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
3/16/2025 21:12	40601	PIGR_T1	0	0	0	0	0	0	-1.84	-1.85	0	0	0	0	0	0
3/16/2025 21:13	67605	WARW_T1	22	37	15	0.47	0.5	0.03	-1.22	-1.27	0	0	0	0	0	0
3/16/2025 21:13	40601	PIGR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 21:13	52101	MEIS_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/16/2025 21:13	64401	LAND_T1	0	0	0	0	0	0	-0.55	-0.56	0	0	0	0	0	0
3/16/2025 21:13	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 21:15	64403	LAND_T1	0	0	0	0	0	0	-2.01	-1.99	1	1	0	900	900	0
3/16/2025 21:15	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
3/16/2025 21:16	64403	LAND_T1	0	0	0	0	0	0	-2.01	-1.99	1	1	0	900	900	0
3/16/2025 21:17	66502	SMAN_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
3/16/2025 21:17	66505	SMAN_T2	3	3	0	0.17	0.93	0.76	0	0	0	0	0	0	0	0
3/16/2025 21:17	61001	DONV_T1	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
3/16/2025 21:18	60104	COCA_T2	1	4	3	0.1	0.35	0.25	0	0	0	0	0	0	0	0
3/16/2025 21:18	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 21:20	63801	HEMP_T1	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
3/16/2025 21:20	63501	HEID_TBK1-2	1	2	1	0.5	0.45	-0.05	0.26	0.34	0	0	0	0	0	0
3/16/2025 21:20	63804	HEMP_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
3/16/2025 21:20	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
3/16/2025 21:21	52502	PROG_T2	0	0	0	0	0	0	-0.76	-0.78	1	1	0	900	900	0
3/16/2025 21:21	64101	REFR_T1	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
3/16/2025 21:23	64401	LAND_T1	0	0	0	0	0	0	-0.56	-0.59	0	0	0	0	0	0
3/16/2025 21:24	67604	WARW_T1	0	0	0	0	0	0	-0.15	-0.17	0	0	0	0	0	0
3/16/2025 21:24	46001	BERW_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
3/16/2025 21:24	67605	WARW_T1	21	37	16	0.37	0.5	0.13	0	0	0	0	0	0	0	0
3/16/2025 21:25	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
3/16/2025 21:27	66202	SISP_T2	0	0	0	0	0	0	-1.38	-1.38	0	0	0	0	0	0
3/16/2025 21:27	46001	BERW_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
3/16/2025 21:39	64401	LAND_T1	0	0	0	0	0	0	-0.59	-0.58	0	0	0	0	0	0
3/16/2025 21:40	64101	REFR_T1	0	0	0	0	0	0	-0.22	-0.22	0	0	0	0	0	0
3/16/2025 21:48	54502	ENOL_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/16/2025 21:48	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/16/2025 21:48	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2025 23:03	52502	PROG_T2	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
3/16/2025 23:49	65802	RTWN_T2	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
3/17/2025 3:36	63201	MGTN_T2	0	0	0	0	0	0	1.37	1.4	0	0	0	0	0	0
3/17/2025 3:36	63202	MGTN_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
3/17/2025 7:56	54502	ENOL_T2	1	0	-1	0.2	0	-0.2	-2.11	-2.12	1	1	0	600	600	0
3/17/2025 8:26	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 8:30	10903	COOP_T2	1	6	5	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/17/2025 8:30	10901	COOP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 8:31	53501	EVIL_T2	2	2	0	0.3	1.2	0.9	0	0	0	0	0	0	0	0
3/17/2025 8:35	67106	SPRI_T2	0	0	0	0	0	0	-2.64	-2.65	2	2	0	1500	1500	0
3/17/2025 8:38	67106	SPRI_T2	0	0	0	0	0	0	-2.65	-2.63	2	2	0	1500	1500	0
3/17/2025 8:39	67106	SPRI_T2	0	0	0	0	0	0	-2.65	-2.63	2	2	0	1500	1500	0
3/17/2025 8:42	53501	EVIL_T2	2	2	0	0.3	1.2	0.9	0	0	0	0	0	0	0	0
3/17/2025 8:45	52402	GRPA_T2	0	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0
3/17/2025 8:45	63501	HEID_TBK1-2	1	1	0	1	1.2	0.2	-0.22	0.2	2	2	0	1800	1800	0
3/17/2025 8:45	52403	GRPA_T2	0	3	3	0	0.1	0.1	-1.01	-0.63	0	0	0	0	0	0
3/17/2025 8:48	63501	HEID_TBK1-2	1	1	0	1	1.2	0.2	-0.11	0.1	1	1	0	900	900	0
3/17/2025 8:50	67002	STHI_T2	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
3/17/2025 8:51	67002	STHI_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
3/17/2025 8:52	67002	STHI_T2	0	0	0	0	0	0	1.11	1.09	0	0	0	0	0	0
3/17/2025 8:55	67002	STHI_T2	0	0	0	0	0	0	0.56	0.55	0	0	0	0	0	0
3/17/2025 9:03	58402	MORO_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/17/2025 9:03	58401	MORO_T1	0	0	0	0	0	0	-1.12	-1.06	1	1	0	600	600	0
3/17/2025 9:04	44201	POIN_T1	0	0	0	0	0	0	-2.19	-2.22	1	1	0	1200	1200	0
3/17/2025 9:06	67002	STHI_T2	0	1	1	0	0.2	0.2	0.55	0.55	0	0	0	0	0	0
3/17/2025 9:06	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 9:09	67002	STHI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/17/2025 9:13	63501	HEID_TBK1-2	1	1	0	0.9	1.2	0.3	0.17	0.16	1	1	0	900	900	0
3/17/2025 9:16	63501	HEID_TBK1-2	1	2	1	1.2	0.85	-0.35	0.17	0.16	1	1	0	900	900	0
3/17/2025 9:17	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 9:17	63501	HEID_TBK1-2	1	2	1	1.2	0.85	-0.35	0.35	0.32	2	2	0	1800	1800	0
3/17/2025 9:22	67002	STHI_T2	0	1	1	0	0.2	0.2	0.55	0.56	0	0	0	0	0	0
3/17/2025 9:29	61001	DONV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 9:33	10903	COOP_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/17/2025 9:33	40602	PIGR_T1	0	0	0	0	0	0	-0.85	-0.85	1	1	0	600	600	0
3/17/2025 9:35	52502	PROG_T2	1	1	0	0.1	0.3	0.2	-0.7	-0.7	1	1	0	900	900	0
3/17/2025 9:36	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 9:36	52502	PROG_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/17/2025 9:38	52502	PROG_T2	1	1	0	0.1	0.3	0.2	-1.4	-1.4	2	2	0	1800	1800	0
3/17/2025 9:38	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 9:38	67605	WARW_T1	2	8	6	0.3	0.33	0.03	-1.13	-1.14	0	0	0	0	0	0
3/17/2025 9:39	67605	WARW_T1	2	8	6	0.3	0.33	0.03	0	0	0	0	0	0	0	0
3/17/2025 9:39	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 9:39	59202	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 9:41	67605	WARW_T1	2	8	6	0.3	0.33	0.03	0	0	0	0	0	0	0	0
3/17/2025 9:41	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.1	0	0	0	0	0	0
3/17/2025 9:43	63501	HEID_TBK1-2	1	3	2	1.2	0.6	-0.6	0.1	0.06	1	1	0	900	900	0
3/17/2025 9:44	63501	HEID_TBK1-2	1	3	2	1.2	0.6	-0.6	0.1	0.06	1	1	0	900	900	0
3/17/2025 9:48	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 9:50	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 9:50	53802	MBRG_T2	0	0	0	0	0	0	1.11	0.96	0	0	0	0	0	0
3/17/2025 9:51	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 9:52	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 9:54	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 9:54	40602	PIGR_T1	0	0	0	0	0	0	-0.81	-0.82	1	1	0	600	600	0
3/17/2025 10:00	40505	CRES_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
3/17/2025 10:00	62604	ENGL_T1	0	0	0	0	0	0	-1.04	-1.01	1	1	0	600	600	0
3/17/2025 10:00	40602	PIGR_T1	0	0	0	0	0	0	-0.81	-0.82	1	1	0	600	600	0
3/17/2025 10:00	67502	WEWI_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/17/2025 10:00	59201	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 10:00	53901	HALI_T2	1	1	0	0.2	0.3	0.1	-1.08	-1.06	0	0	0	0	0	0
3/17/2025 10:00	28102	WLA_T2	1	3	2	0.1	0.4	0.3	0.16	0.18	0	0	0	0	0	0
3/17/2025 10:00	59202	THOM_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 10:00	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
3/17/2025 10:00	53903	HALI_T2	2	2	0	0.9	1.15	0.25	0	0	0	0	0	0	0	0
3/17/2025 10:00	67503	WEWI_T2	0	0	0	0	0	0	-0.2	-0.22	0	0	0	0	0	0
3/17/2025 10:11	10801	CHHI_T1	0	0	0	0	0	0	-1.57	-1.56	2	2	0	1500	1500	0
3/17/2025 10:16	53502	EVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/17/2025 10:16	53501	EVIL_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
3/17/2025 10:17	53501	EVIL_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
3/17/2025 10:17	53502	EVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/17/2025 10:21	58102	NEKI_T1	1	1	0	0.7	0.8	0.1	-1.23	-1.16	1	1	0	1200	1200	0
3/17/2025 10:21	67402	WAKE_T2	0	0	0	0	0	0	0.34	0.34	1	1	0	600	600	0
3/17/2025 10:22	67605	WARW_T1	4	7	3	0.38	0.43	0.05	-1.13	-1.14	0	0	0	0	0	0
3/17/2025 10:22	67603	WARW_T1	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
3/17/2025 10:22	67002	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 10:22	67402	WAKE_T2	0	0	0	0	0	0	0.34	0.34	1	1	0	600	600	0
3/17/2025 10:24	67002	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 10:25	67901	WNHO_T2	0	0	0	0	0	0	-0.72	-0.63	2	2	0	2100	2100	0
3/17/2025 10:25	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 10:25	67605	WARW_T1	4	7	3	0.38	0.43	0.05	-1.13	-1.14	0	0	0	0	0	0
3/17/2025 10:25	67605	WARW_T1	4	7	3	0.38	0.43	0.05	-1.13	-1.14	0	0	0	0	0	0
3/17/2025 10:25	67605	WARW_T1	4	7	3	0.38	0.43	0.05	-1.13	-1.14	0	0	0	0	0	0
3/17/2025 10:25	67605	WARW_T1	4	7	3	0.38	0.43	0.05	-1.13	-1.14	0	0	0	0	0	0
3/17/2025 10:25	67002	STHI_T2	0	1	1	0	0.1	0.1	2.35	2.24	0	0	0	0	0	0
3/17/2025 10:26	67002	STHI_T2	0	1	1	0	0.1	0.1	1.17	1.12	0	0	0	0	0	0
3/17/2025 10:26	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 10:27	10801	CHHI_T1	0	0	0	0	0	0	-1.56	-1.58	2	2	0	1500	1500	0
3/17/2025 10:28	53501	EVIL_T2	2	2	0	0.25	0.4	0.15	-0.3	-0.41	1	1	0	600	600	0
3/17/2025 10:28	53502	EVIL_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/17/2025 10:29	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	-0.02	0	0	0	0	0	0
3/17/2025 10:29	63804	HEMP_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
3/17/2025 10:29	63501	HEID_TBK1-2	1	2	1	1	0.75	-0.25	0.17	-0.04	1	1	0	900	900	0
3/17/2025 10:30	63501	HEID_TBK1-2	2	1	-1	0.75	1.3	0.55	0.34	-0.08	2	2	0	1800	1800	0
3/17/2025 10:31	14603	SWHI_T1	0	0	0	0	0	0	-1.09	-1.08	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/17/2025 10:31	63501	HEID_T8K1-2	2	1	-1	0.75	1.3	0.55	0.17	-0.04	1	1	0	900	900	0
3/17/2025 10:31	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 10:31	14602	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 10:31	63804	HEMP_T1	1	1	0	6	6.3	0.3	0	0	0	0	0	0	0	0
3/17/2025 10:31	63601	LETO_T1	2	0	-2	0.4	0	-0.4	0.17	0.41	1	1	0	900	900	0
3/17/2025 10:31	63801	HEMP_T1	0	0	0	0	0	0	0.4	0.19	0	0	0	0	0	0
3/17/2025 10:32	63803	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 10:32	63804	HEMP_T1	1	1	0	6	6.3	0.3	0	0	0	0	0	0	0	0
3/17/2025 10:32	63801	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 10:33	63601	LETO_T1	2	0	-2	0.4	0	-0.4	0.17	0.41	1	1	0	900	900	0
3/17/2025 10:34	14603	SWHI_T1	0	0	0	0	0	0	-1.09	-1.08	1	1	0	600	600	0
3/17/2025 10:34	64101	REFR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/17/2025 10:34	14602	SWHI_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 10:35	64101	REFR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/17/2025 10:36	64101	REFR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/17/2025 10:36	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 10:37	64101	REFR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/17/2025 10:38	64101	REFR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/17/2025 10:39	64101	REFR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/17/2025 10:41	61001	DONV_T1	1	1	0	0.6	0.5	-0.1	-0.15	-0.11	0	0	0	0	0	0
3/17/2025 10:43	24105	EHAZ_T1	4	4	0	7	6.75	-0.25	0	0	0	0	0	0	0	0
3/17/2025 10:43	24102	EHAZ_T1	6	5	-1	1.15	0.75	-0.4	-0.08	0.1	0	0	0	0	0	0
3/17/2025 10:43	24101	EHAZ_T1	30	21	-9	0.48	0.2	-0.28	0	0	0	0	0	0	0	0
3/17/2025 10:44	64101	REFR_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/17/2025 10:44	10801	CHHI_T1	0	0	0	0	0	0	-1.58	-1.54	2	2	0	1500	1500	0
3/17/2025 10:49	67201	TEHI_T1	0	0	0	0	0	0	-0.53	-0.54	2	2	0	1800	1800	0
3/17/2025 11:04	44201	POIN_T1	0	0	0	0	0	0	-2.24	-2.18	1	1	0	1200	1200	0
3/17/2025 11:05	44201	POIN_T1	0	0	0	0	0	0	-2.24	-2.18	1	1	0	1200	1200	0
3/17/2025 11:07	44201	POIN_T1	0	0	0	0	0	0	-2.18	-2.27	1	1	0	1200	1200	0
3/17/2025 11:09	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 11:19	58401	MORO_T1	0	2	2	0	0.45	0.45	-3.51	-3.45	3	3	0	1800	1800	0
3/17/2025 11:26	52502	PROG_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
3/17/2025 11:35	46203	DANV_T2	71	107	36	0.24	0.42	0.18	-2.33	-2.34	0	0	0	0	0	0
3/17/2025 11:35	24202	PROV_T4	0	4	4	0	0.13	0.13	-0.81	-0.83	1	1	0	1200	1200	0
3/17/2025 11:35	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 11:35	46206	DANV_T2	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/17/2025 11:40	51101	CARL_T1	1	1	0	6.5	6.2	-0.3	0	0	0	0	0	0	0	0
3/17/2025 11:40	58401	MORO_T1	1	4	3	0.2	0.33	0.13	-1.15	-1.16	1	1	0	600	600	0
3/17/2025 11:40	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 11:43	60305	TWVA_T2	3	0	-3	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/17/2025 11:43	64101	REFR_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/17/2025 11:43	60301	TWVA_T2	7	0	-7	0.19	0	-0.19	-1.16	-1.19	1	1	0	1200	1200	0
3/17/2025 11:44	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 11:45	52402	GRPA_T2	4	515	511	0.45	2.02	1.57	0	0	0	0	0	0	0	0
3/17/2025 11:45	52403	GRPA_T2	12	101	89	0.56	0.55	-0.01	-0.61	-0.61	0	0	0	0	0	0
3/17/2025 11:45	52401	GRPA_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 11:49	44201	POIN_T1	0	0	0	0	0	0	-2.22	-2.26	1	1	0	1200	1200	0
3/17/2025 11:50	44201	POIN_T1	0	0	0	0	0	0	-2.22	-2.26	1	1	0	1200	1200	0
3/17/2025 11:51	44201	POIN_T1	0	0	0	0	0	0	-2.26	-2.22	1	1	0	1200	1200	0
3/17/2025 11:51	65702	RVIL_T2	0	0	0	0	0	0	-1.6	-1.58	1	1	0	600	600	0
3/17/2025 11:55	67001	STHI_T2	0	1	1	0	0.1	0.1	0.04	0.05	0	0	0	0	0	0
3/17/2025 11:56	67401	WAKE_T2	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/17/2025 11:56	67402	WAKE_T2	0	0	0	0	0	0	0.36	0.36	1	1	0	600	600	0
3/17/2025 11:59	54505	ENOL_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/17/2025 11:59	27201	YATE_T1	10	10	0	6.21	6.22	0.01	-0.8	-0.8	0	0	0	0	0	0
3/17/2025 11:59	54502	ENOL_T2	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
3/17/2025 11:59	54501	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 11:59	54506	ENOL_T2	0	0	0	0	0	0	-1.39	-1.36	1	1	0	600	600	0
3/17/2025 12:04	58401	MORO_T1	2	1	-1	0.2	0.3	0.1	-1.16	-1.17	1	1	0	600	600	0
3/17/2025 12:04	52101	MEIS_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
3/17/2025 12:05	52101	MEIS_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
3/17/2025 12:05	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/17/2025 12:06	58401	MORO_T1	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/17/2025 12:06	58402	MORO_T1	0	0	0	0	0	0	-0.98	-0.14	3	2	-1	2400	1500	-900
3/17/2025 12:07	58401	MORO_T1	2	1	-1	0.2	0.3	0.1	-1.17	-1.18	1	1	0	600	600	0
3/17/2025 12:10	60801	BUCK_T1	1	30	29	0.5	0.22	-0.28	-0.89	-0.86	1	1	0	600	600	0
3/17/2025 12:10	15405	WALL_T1	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
3/17/2025 12:11	60801	BUCK_T1	1	30	29	0.5	0.22	-0.28	-0.89	-0.86	1	1	0	600	600	0
3/17/2025 12:12	60801	BUCK_T1	1	30	29	0.5	0.22	-0.28	-0.89	-0.86	1	1	0	600	600	0
3/17/2025 12:12	40501	CRES_T2	10	11	1	0.23	0.29	0.06	0	0	0	0	0	0	0	0
3/17/2025 12:13	40504	CRES_T1	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
3/17/2025 12:14	40504	CRES_T1	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
3/17/2025 12:16	53801	MBRG_T2	0	0	0	0	0	0	-1.99	-1.97	0	0	0	0	0	0
3/17/2025 12:19	52402	GRPA_T2	227	95	-132	5.13	0.43	-4.7	0	0	0	0	0	0	0	0
3/17/2025 12:19	60801	BUCK_T1	11	30	19	0.24	0.21	-0.03	-0.89	-0.86	1	1	0	600	600	0
3/17/2025 12:19	52401	GRPA_T2	2	1	-1	0.2	0.9	0.7	0	0	0	0	0	0	0	0
3/17/2025 12:19	52403	GRPA_T2	81	20	-61	0.53	0.54	0.01	-0.63	-0.7	0	0	0	0	0	0
3/17/2025 12:20	67106	SPRI_T2	0	0	0	0	0	0	-2.65	-2.65	2	2	0	1500	1500	0
3/17/2025 12:21	44901	SCOT_T2	0	0	0	0	0	0	0.03	0.07	0	0	0	0	0	0
3/17/2025 12:21	43304	WATS_T2	0	0	0	0	0	0	-0.52	-0.48	0	0	0	0	0	0
3/17/2025 12:22	67106	SPRI_T2	0	0	0	0	0	0	-2.65	-2.65	2	2	0	1500	1500	0
3/17/2025 12:22	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 12:23	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 12:23	13905	SEID_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
3/17/2025 12:24	67106	SPRI_T2	0	0	0	0	0	0	-2.65	-2.65	2	2	0	1500	1500	0
3/17/2025 12:25	43304	WATS_T2	0	0	0	0	0	0	-0.52	-0.48	0	0	0	0	0	0
3/17/2025 12:25	52402	GRPA_T2	227	95	-132	5.13	0.43	-4.7	0	0	0	0	0	0	0	0
3/17/2025 12:25	67401	WAKE_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
3/17/2025 12:25	52403	GRPA_T2	81	20	-61	0.53	0.54	0.01	-0.7	-0.71	0	0	0	0	0	0
3/17/2025 12:25	67402	WAKE_T2	0	0	0	0	0	0	-0.09	-0.4	1	1	0	600	600	0
3/17/2025 12:25	52401	GRPA_T2	2	1	-1	0.2	0.9	0.7	0	0	0	0	0	0	0	0
3/17/2025 12:27	46204	DANV_T2	2	0	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/17/2025 12:27	46203	DANV_T2	84	167	83	0.28	0.59	0.31	-4.7	-4.78	0	0	0	0	0	0
3/17/2025 12:27	46206	DANV_T2	2	2	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/17/2025 12:29	60801	BUCK_T1	11	30	19	0.24	0.21	-0.03	0	0	0	0	0	0	0	0
3/17/2025 12:33	46901	MNTG_T2	0	0	0	0	0	0	-0.39	-0.13	1	1	0	1200	1200	0
3/17/2025 12:33	46903	MNTG_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/17/2025 12:33	46902	MNTG_T2	0	0	0	0	0	0	-0.56	-0.54	1	1	0	600	600	0
3/17/2025 12:35	46903	MNTG_T2	2	0	-2	0.1	0	-0.1	-0.65	-0.71	1	1	0	600	600	0
3/17/2025 12:50	46102	MACJ_T1	0	0	0	0	0	0	0.55	0.54	0	0	0	0	0	0
3/17/2025 12:52	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 12:53	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/17/2025 12:53	52403	GRPA_T2	9	15	6	0.48	0.5	0.02	-0.72	-0.72	0	0	0	0	0	0
3/17/2025 12:53	52402	GRPA_T2	7	30	23	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
3/17/2025 12:57	45602	WOOL_T1	0	0	0	0	0	0	0.5	0.55	0	0	0	0	0	0
3/17/2025 12:57	45501	DERR_T2	0	0	0	0	0	0	0.21	0.3	2	2	0	1800	1800	0
3/17/2025 12:57	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 12:58	54505	ENOL_T2	1	1	0	0.4	0.4	0	-1.39	-1.38	1	1	0	600	600	0
3/17/2025 12:58	54502	ENOL_T2	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/17/2025 12:58	45501	DERR_T2	0	0	0	0	0	0	0.42	0.6	4	4	0	3600	3600	0
3/17/2025 13:06	22701	MINO_T1	0	0	0	0	0	0	-0.52	-0.55	0	0	0	0	0	0
3/17/2025 13:09	13904	SEID_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
3/17/2025 13:13	23502	GEOR_T1	0	0	0	0	0	0	-0.21	-0.23	0	0	0	0	0	0
3/17/2025 13:14	65802	RTWN_T2	0	1	1	0	0.3	0.3	-0.25	-0.23	0	0	0	0	0	0
3/17/2025 13:15	65802	RTWN_T2	0	1	1	0	0.3	0.3	-0.25	-0.23	0	0	0	0	0	0
3/17/2025 13:18	63802	HEMP_T1	0	0	0	0	0	0	0.18	0.12	0	0	0	0	0	0
3/17/2025 13:18	63804	HEMP_T1	1	1	0	6.4	6.1	-0.3	0	0	0	0	0	0	0	0
3/17/2025 13:25	67605	WARW_T1	9	8	-1	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
3/17/2025 13:40	51102	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 13:40	51101	CARL_T1	1	1	0	6.3	6.1	-0.2	0	0	0	0	0	0	0	0
3/17/2025 13:50	65702	RVIL_T2	0	0	0	0	0	0	-1.58	-1.51	1	1	0	600	600	0
3/17/2025 13:51	65702	RVIL_T2	0	0	0	0	0	0	-1.51	-1.54	1	1	0	600	600	0
3/17/2025 13:52	65702	RVIL_T2	0	0	0	0	0	0	-1.51	-1.54	1	1	0	600	600	0
3/17/2025 13:53	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 13:55	65702	RVIL_T2	0	0	0	0	0	0	-1.51	-1.54	1	1	0	600	600	0
3/17/2025 13:57	55105	WERT_T1	0	0	0	0	0	0	-0.77	-0.74	1	1	0	900	900	0
3/17/2025 13:57	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 14:02	53801	MBRG_T2	5	5	0	0.12	0.18	0.06	0	0	0	0	0	0	0	0
3/17/2025 14:03	52101	MEIS_T1	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
3/17/2025 14:03	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/17/2025 14:05	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 14:07	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 14:08	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 14:08	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 14:09	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 14:12	40701	FELD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 14:16	17802	GILB_T1	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
3/17/2025 14:26	46203	DANV_T2	133	138	5	0.45	0.49	0.04	-2.37	-2.39	0	0	0	0	0	0
3/17/2025 14:28	62604	ENGL_T1	0	0	0	0	0	0	-1.06	-1.03	1	1	0	600	600	0
3/17/2025 14:29	62601	ENGL_T1	0	0	0	0	0	0	-0.82	-0.82	0	0	0	0	0	0
3/17/2025 14:30	52401	GRPA_T2	2	2	0	0.25	0.65	0.4	-0.58	-0.55	0	0	0	0	0	0
3/17/2025 14:30	52402	GRPA_T2	15	15	0	0.49	0.44	-0.05	0	0	0	0	0	0	0	0
3/17/2025 14:30	52403	GRPA_T2	2	2	0	0.5	0.35	-0.15	0	0	0	0	0	0	0	0
3/17/2025 14:40	22701	MINO_T1	0	0	0	0	0	0	-0.57	-0.55	0	0	0	0	0	0
3/17/2025 14:44	54505	ENOL_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/17/2025 14:44	54504	ENOL_T2	0	0	0	0	0	0	-1.22	-1.22	1	1	0	600	600	0
3/17/2025 14:44	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/17/2025 14:53	61803	EELI_T2	0	0	0	0	0	0	0.22	0.2	1	1	0	600	600	0
3/17/2025 14:53	61801	EELI_T2	4	1	-3	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
3/17/2025 14:53	61802	EELI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 14:59	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 14:59	51102	CARL_T1	0	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0
3/17/2025 14:59	51101	CARL_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
3/17/2025 14:59	51109	CARL_T1	0	0	0	0	0	0	-1.08	-1.1	1	1	0	1200	1200	0
3/17/2025 15:01	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 15:01	21206	ECAR_T2	1	1	0	7.9	8.1	0.2	0.16	-0.03	0	0	0	0	0	0
3/17/2025 15:03	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 15:03	21206	ECAR_T2	1	1	0	7.9	8.1	0.2	0.16	-0.03	0	0	0	0	0	0
3/17/2025 15:12	52403	GRPA_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
3/17/2025 15:12	52402	GRPA_T2	3	9	6	0.6	0.71	0.11	0	0	0	0	0	0	0	0
3/17/2025 15:12	52401	GRPA_T2	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
3/17/2025 15:14	52403	GRPA_T2	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
3/17/2025 15:14	61304	EARL_T1	0	0	0	0	0	0	-0.76	-0.83	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/17/2025 15:14	52402	GRPA_T2	3	9	6	0.6	0.71	0.11	0	0	0	0	0	0	0	0
3/17/2025 15:14	52401	GRPA_T2	2	0	-2	0.6	0	-0.6	0	0	0	0	0	0	0	0
3/17/2025 15:28	44502	HAMI_T2	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
3/17/2025 15:28	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 15:30	44502	HAMI_T2	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
3/17/2025 15:30	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 15:31	44502	HAMI_T2	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
3/17/2025 15:31	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/17/2025 15:33	10903	COOP_T2	3	3	0	0.4	0.33	-0.07	-0.37	-0.4	1	1	0	600	600	0
3/17/2025 15:34	10903	COOP_T2	3	3	0	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
3/17/2025 15:41	52404	GRPA_T2	0	0	0	0	0	0	0.48	0.34	0	0	0	0	0	0
3/17/2025 15:41	52402	GRPA_T2	8	7	-1	0.53	0.61	0.08	0	0	0	0	0	0	0	0
3/17/2025 15:43	47203	FAXO_T2	0	0	0	0	0	0	-1.77	-1.78	1	1	0	1200	1200	0
3/17/2025 15:55	23403	HONE_T1	14	10	-4	0.16	0.11	-0.05	-0.8	-0.77	0	0	0	0	0	0
3/17/2025 16:00	63501	HEID_TBK1-2	1	32	31	1.2	0.28	-0.92	-0.25	-0.43	1	1	0	900	900	0
3/17/2025 16:01	14601	SWHI_T1	0	0	0	0	0	0	-0.92	-0.87	0	0	0	0	0	0
3/17/2025 16:07	47403	PENS_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/17/2025 16:07	47401	PENS_T1	0	0	0	0	0	0	0.81	0.93	0	0	0	0	0	0
3/17/2025 16:32	53903	HALI_T2	2	2	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/17/2025 16:32	53901	HALI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 16:32	53902	HALI_T2	1	1	0	5.6	5.4	-0.2	0	0	0	0	0	0	0	0
3/17/2025 16:45	53903	HALI_T2	2	2	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
3/17/2025 16:45	53901	HALI_T2	0	1	1	0	0.1	0.1	-1.04	-1.02	0	0	0	0	0	0
3/17/2025 16:45	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
3/17/2025 16:53	63802	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 16:53	63804	HEMP_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
3/17/2025 16:58	40501	CRES_T2	11	4	-7	0.31	0.2	-0.11	0	0	0	0	0	0	0	0
3/17/2025 17:02	64701	LITI_T1	0	0	0	0	0	0	0.14	0.16	0	0	0	0	0	0
3/17/2025 17:06	53902	HALI_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
3/17/2025 17:06	53903	HALI_T2	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/17/2025 17:06	53901	HALI_T2	1	0	-1	0.1	0	-0.1	-1.02	-1.03	0	0	0	0	0	0
3/17/2025 17:09	65302	NBRI_T2	0	0	0	0	0	0	-2.66	-2.86	2	2	0	1200	1200	0
3/17/2025 17:11	64203	KINZ_T1	0	0	0	0	0	0	-0.5	-0.47	1	1	0	600	600	0
3/17/2025 17:11	64204	KINZ_T1	1	2	1	1	0.75	-0.25	0	0	0	0	0	0	0	0
3/17/2025 17:12	60404	DILL_T2	0	1	1	0	0	0	-0.3	-0.22	1	1	0	1200	1200	0
3/17/2025 17:12	65302	NBRI_T2	0	0	0	0	0	0	-1.33	-1.43	1	1	0	600	600	0
3/17/2025 17:25	46001	BERW_T1	0	0	0	0	0	0	0.62	0.64	0	0	0	0	0	0
3/17/2025 17:36	14603	SWHI_T1	0	0	0	0	0	0	-1.06	0	1	1	0	600	600	0
3/17/2025 17:40	44902	SCOT_T2	0	0	0	0	0	0	-0.99	0	0	0	0	0	0	0
3/17/2025 17:42	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/17/2025 17:47	52101	MEIS_T1	1	1	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
3/17/2025 17:47	52102	MEIS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 18:02	44703	MUNC_T2	0	0	0	0	0	0	0	0.37	0	0	0	0	0	0
3/17/2025 18:04	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 20:08	40602	PIGR_T1	0	1	1	0	0.1	0.1	-1.91	-1.96	1	1	0	600	600	0
3/17/2025 20:10	66505	SMAN_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
3/17/2025 20:10	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 20:39	45601	WOOL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 20:39	45602	WOOL_T1	0	0	0	0	0	0	0.49	0.5	0	0	0	0	0	0
3/17/2025 20:41	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 20:44	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 20:44	21206	ECAR_T2	1	1	0	7.8	7.9	0.1	0	0	0	0	0	0	0	0
3/17/2025 20:47	64101	REFR_T1	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/17/2025 20:54	67201	TEHI_T1	0	0	0	0	0	0	-1.2	-1.21	2	2	0	1800	1800	0
3/17/2025 20:56	24101	EHAZ_T1	3	19	16	0.43	0.53	0.1	0	0	0	0	0	0	0	0
3/17/2025 20:56	24105	EHAZ_T1	4	4	0	7.13	6.53	-0.6	0	0	0	0	0	0	0	0
3/17/2025 20:56	24102	EHAZ_T1	11	11	0	1.28	1.1	-0.18	-0.29	-0.3	0	0	0	0	0	0
3/17/2025 20:57	17802	GILB_T1	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
3/17/2025 20:58	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 20:58	21206	ECAR_T2	1	1	0	7.9	7.8	-0.1	0	0	0	0	0	0	0	0
3/17/2025 20:59	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 20:59	67106	SPRI_T2	0	0	0	0	0	0	-1.94	-1.96	2	2	0	1500	1500	0
3/17/2025 20:59	67002	STHI_T2	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
3/17/2025 21:01	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:01	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:01	23403	HONE_T1	0	0	0	0	0	0	-0.8	-0.71	0	0	0	0	0	0
3/17/2025 21:01	67106	SPRI_T2	0	0	0	0	0	0	-1.94	-1.96	2	2	0	1500	1500	0
3/17/2025 21:01	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/17/2025 21:02	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:02	65702	RVIL_T2	0	0	0	0	0	0	-1.7	-1.69	1	1	0	600	600	0
3/17/2025 21:02	13904	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:03	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:03	10903	COOP_T2	0	0	0	0	0	0	-0.34	-0.3	1	1	0	600	600	0
3/17/2025 21:03	13904	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:04	67002	STHI_T2	0	0	0	0	0	0	0.52	0.49	0	0	0	0	0	0
3/17/2025 21:04	14601	SWHI_T1	0	0	0	0	0	0	-0.84	-0.84	0	0	0	0	0	0
3/17/2025 21:04	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 21:05	60301	TWVA_T2	0	0	0	0	0	0	-1.96	-1.94	2	2	0	1800	1800	0
3/17/2025 21:05	60801	BUCK_T1	0	0	0	0	0	0	-0.95	-0.93	1	1	0	600	600	0
3/17/2025 21:05	14603	SWHI_T1	0	0	0	0	0	0	-1.02	-1.02	1	1	0	600	600	0
3/17/2025 21:06	65702	RVIL_T2	0	0	0	0	0	0	-1.69	-1.69	1	1	0	600	600	0
3/17/2025 21:06	13904	SEID_T1	0	1	1	0	0	0	0.24	0.25	0	0	0	0	0	0
3/17/2025 21:06	10801	CHHI_T1	0	0	0	0	0	0	-2.2	-2.21	3	3	0	2100	2100	0
3/17/2025 21:07	14603	SWHI_T1	0	0	0	0	0	0	-1.02	-1.02	1	1	0	600	600	0
3/17/2025 21:07	27201	YATE_T1	10	10	0	5.67	6.43	0.76	-1.2	-1.21	0	0	0	0	0	0
3/17/2025 21:07	40501	CRES_T2	6	8	2	0.23	0.26	0.03	0	0	0	0	0	0	0	0
3/17/2025 21:07	64101	REFR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/17/2025 21:07	60801	BUCK_T1	0	0	0	0	0	0	-0.93	-0.95	1	1	0	600	600	0
3/17/2025 21:07	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:08	10801	CHHI_T1	0	0	0	0	0	0	-2.2	-2.21	3	3	0	2100	2100	0
3/17/2025 21:08	64101	REFR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/17/2025 21:08	65302	NBRI_T2	0	0	0	0	0	0	-1.34	-1.17	1	1	0	600	600	0
3/17/2025 21:08	24202	PROV_T4	0	0	0	0	0	0	-0.84	-0.89	1	1	0	1200	1200	0
3/17/2025 21:08	15405	WALL_T1	0	0	0	0	0	0	0.4	0.39	0	0	0	0	0	0
3/17/2025 21:08	67603	WARW_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
3/17/2025 21:09	67002	STHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:09	64101	REFR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/17/2025 21:09	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 21:10	64101	REFR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/17/2025 21:10	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:10	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 21:10	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:10	67002	STHI_T2	0	0	0	0	0	0	1.47	1.47	0	0	0	0	0	0
3/17/2025 21:11	67002	STHI_T2	0	0	0	0	0	0	0.49	0.49	0	0	0	0	0	0
3/17/2025 21:11	67001	STHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 21:11	14603	SWHI_T1	0	0	0	0	0	0	-1.02	-1.02	1	1	0	600	600	0
3/17/2025 21:11	40504	CRES_T1	0	0	0	0	0	0	-0.57	-0.56	0	0	0	0	0	0
3/17/2025 21:11	64701	LITI_T1	0	0	0	0	0	0	0.06	0.03	0	0	0	0	0	0
3/17/2025 21:11	64101	REFR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/17/2025 21:12	23502	GEOR_T1	0	0	0	0	0	0	-0.52	-0.56	0	0	0	0	0	0
3/17/2025 21:12	63601	LETO_T1	0	0	0	0	0	0	0.83	0.62	2	2	0	1500	1500	0
3/17/2025 21:12	65802	RTWN_T2	0	0	0	0	0	0	-0.24	-0.22	0	0	0	0	0	0
3/17/2025 21:12	62601	ENGL_T1	0	0	0	0	0	0	-0.76	-0.69	0	0	0	0	0	0
3/17/2025 21:13	60801	BUCK_T1	0	0	0	0	0	0	-0.93	-0.95	1	1	0	600	600	0
3/17/2025 21:13	64101	REFR_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/17/2025 21:15	67001	STHI_T2	1	1	0	0.1	0.2	0.1	0.08	0.07	0	0	0	0	0	0
3/17/2025 21:15	67605	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 21:15	46001	BERW_T1	0	0	0	0	0	0	0.64	0.6	0	0	0	0	0	0
3/17/2025 21:15	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:15	10801	CHHI_T1	0	0	0	0	0	0	-2.2	-2.21	3	3	0	2100	2100	0
3/17/2025 21:15	65702	RVIL_T2	0	0	0	0	0	0	-1.69	-1.69	1	1	0	600	600	0
3/17/2025 21:15	67603	WARW_T1	0	0	0	0	0	0	-0.04	-0.03	0	0	0	0	0	0
3/17/2025 21:16	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
3/17/2025 21:16	65302	NBRI_T2	0	0	0	0	0	0	-1.34	-1.17	1	1	0	600	600	0
3/17/2025 21:16	63802	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:17	67106	SPRI_T2	0	0	0	0	0	0	-1.96	-1.96	2	2	0	1500	1500	0
3/17/2025 21:17	67402	WAKE_T2	0	0	0	0	0	0	-0.45	-0.46	1	1	0	600	600	0
3/17/2025 21:17	63501	HEID_TBK1-2	36	34	-2	0.66	0.39	-0.27	-0.59	-0.59	1	1	0	900	900	0
3/17/2025 21:17	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.77	-0.88	0	0	0	0	0	0
3/17/2025 21:17	60801	BUCK_T1	0	0	0	0	0	0	-0.93	-0.95	1	1	0	600	600	0
3/17/2025 21:18	67605	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 21:18	67402	WAKE_T2	0	0	0	0	0	0	-0.45	-0.46	1	1	0	600	600	0
3/17/2025 21:19	61001	DONV_T1	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
3/17/2025 21:20	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:20	46903	MNTG_T2	0	0	0	0	0	0	-0.83	-0.82	1	1	0	600	600	0
3/17/2025 21:20	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:20	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:20	44502	HAMI_T2	1	1	0	2.9	3.2	0.3	0	0	0	0	0	0	0	0
3/17/2025 21:20	46102	MACI_T1	0	0	0	0	0	0	0.55	0.55	0	0	0	0	0	0
3/17/2025 21:20	45501	DERR_T2	0	0	0	0	0	0	0.34	0.3	2	2	0	1800	1800	0
3/17/2025 21:21	67605	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 21:21	61304	EARL_T1	0	0	0	0	0	0	-1.07	-1.09	1	1	0	600	600	0
3/17/2025 21:21	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:21	51101	CARL_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
3/17/2025 21:21	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:21	40201	BEGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:21	63501	HEID_TBK1-2	36	34	-2	0.66	0.39	-0.27	-0.59	-0.58	1	1	0	900	900	0
3/17/2025 21:21	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
3/17/2025 21:21	63802	HEMP_T1	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
3/17/2025 21:21	44901	SCOT_T2	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
3/17/2025 21:21	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:21	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:21	67402	WAKE_T2	0	0	0	0	0	0	-0.46	-0.49	1	1	0	600	600	0
3/17/2025 21:22	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:22	53501	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 21:22	54504	ENOL_T2	0	0	0	0	0	0	-1.14	-1.14	1	1	0	600	600	0
3/17/2025 21:22	53903	HALI_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
3/17/2025 21:22	53902	HALI_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
3/17/2025 21:22	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.22	1	1	0	600	600	0
3/17/2025 21:22	65802	RTWN_T2	0	0	0	0	0	0	-0.22	-0.21	0	0	0	0	0	0
3/17/2025 21:22	63501	HEID_TBK1-2	36	34	-2	0.66	0.39	-0.27	-0.59	-0.58	1	1	0	900	900	0
3/17/2025 21:22	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:22	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/17/2025 21:22	43304	WATS_T2	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
3/17/2025 21:22	53901	HALI_T2	3	4	1	0.17	0.33	0.16	-1.46	-1.43	0	0	0	0	0	0
3/17/2025 21:23	65302	NBRI_T2	0	0	0	0	0	0	-1.17	-1.14	1	1	0	600	600	0
3/17/2025 21:23	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.88	-0.89	0	0	0	0	0	0
3/17/2025 21:23	40504	CRES_T1	0	0	0	0	0	0	-0.56	-0.6	0	0	0	0	0	0
3/17/2025 21:24	53901	HALI_T2	3	4	1	0.17	0.33	0.16	-1.46	-1.43	0	0	0	0	0	0
3/17/2025 21:24	60801	BUCK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:24	40501	CRES_T2	8	9	1	0.26	0.28	0.02	0	0	0	0	0	0	0	0
3/17/2025 21:24	53902	HALI_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
3/17/2025 21:24	13904	SEID_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/17/2025 21:24	67605	WARW_T1	0	1	1	0	0.1	0.1	-0.88	-0.89	0	0	0	0	0	0
3/17/2025 21:24	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:24	53903	HALI_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
3/17/2025 21:24	13905	SEID_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
3/17/2025 21:24	44902	SCOT_T2	0	0	0	0	0	0	-1.03	-0.99	0	0	0	0	0	0
3/17/2025 21:25	44505	HAMI_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
3/17/2025 21:25	54506	ENOL_T2	0	0	0	0	0	0	-1.44	-1.4	1	0	-1	600	0	-600
3/17/2025 21:25	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
3/17/2025 21:25	63803	HEMP_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
3/17/2025 21:25	67901	WNHO_T2	0	0	0	0	0	0	-0.65	-0.61	1	1	0	900	900	0
3/17/2025 21:25	45501	DERR_T2	0	0	0	0	0	0	0.3	0.34	2	2	0	1800	1800	0
3/17/2025 21:25	63501	HEID_TBK1-2	36	34	-2	0.66	0.39	-0.27	-1.18	-1.16	2	2	0	1800	1800	0
3/17/2025 21:25	44502	HAMI_T2	1	1	0	2.9	3.2	0.3	0	0	0	0	0	0	0	0
3/17/2025 21:25	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 21:26	46206	DANV_T2	6	5	-1	0.43	0.32	-0.11	0	0	0	0	0	0	0	0
3/17/2025 21:26	63801	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:26	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
3/17/2025 21:26	53901	HALI_T2	3	4	1	0.17	0.33	0.16	0	0	0	0	0	0	0	0
3/17/2025 21:26	52402	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/17/2025 21:26	52101	MEIS_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/17/2025 21:26	44201	POIN_T1	0	15	15	0	0.11	0.11	-2.28	-2.3	1	1	0	1200	1200	0
3/17/2025 21:26	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 21:26	52102	MEIS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/17/2025 21:26	54505	ENOL_T2	0	0	0	0	0	0	-1.25	-1.26	1	1	0	600	600	0
3/17/2025 21:26	46203	DANV_T2	8	19	11	0.28	0.33	0.05	-2.22	-2.25	0	0	0	0	0	0
3/17/2025 21:26	53902	HALI_T2	1	1	0	5.2	5.4	0.2	0	0	0	0	0	0	0	0
3/17/2025 21:26	53903	HALI_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
3/17/2025 21:26	46204	DANV_T2	2	1	-1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/17/2025 21:27	44201	POIN_T1	0	15	15	0	0.11	0.11	-2.28	-2.3	1	1	0	1200	1200	0
3/17/2025 21:27	43304	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:27	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
3/17/2025 21:27	46204	DANV_T2	2	1	-1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/17/2025 21:27	52402	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/17/2025 21:27	63801	HEMP_T1	0	0	0	0	0	0	0.23	0.28	0	0	0	0	0	0
3/17/2025 21:27	52101	MEIS_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/17/2025 21:27	46203	DANV_T2	8	19	11	0.28	0.33	0.05	-4.44	-4.5	0	0	0	0	0	0
3/17/2025 21:27	52102	MEIS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/17/2025 21:27	46901	MNTG_T2	0	0	0	0	0	0	-0.2	0.07	1	1	0	1200	1200	0
3/17/2025 21:27	44502	HAMI_T2	1	1	0	2.9	3.2	0.3	0	0	0	0	0	0	0	0
3/17/2025 21:27	46206	DANV_T2	6	5	-1	0.43	0.32	-0.11	0	0	0	0	0	0	0	0
3/17/2025 21:27	52404	GRPA_T2	0	0	0	0	0	0	-0.35	-0.36	0	0	0	0	0	0
3/17/2025 21:27	44505	HAMI_T2	0	0	0	0	0	0	-0.23	-0.22	0	0	0	0	0	0
3/17/2025 21:27	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:27	47401	PENS_T1	0	0	0	0	0	0	0.71	0.73	0	0	0	0	0	0
3/17/2025 21:28	51101	CARL_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
3/17/2025 21:28	46203	DANV_T2	8	19	11	0.28	0.33	0.05	-2.22	-2.25	0	0	0	0	0	0
3/17/2025 21:28	40701	FELD_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:28	53801	MBRG_T2	0	0	0	0	0	0	-0.64	-0.66	0	0	0	0	0	0
3/17/2025 21:28	46206	DANV_T2	6	5	-1	0.43	0.32	-0.11	0	0	0	0	0	0	0	0
3/17/2025 21:28	52402	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/17/2025 21:28	46204	DANV_T2	2	1	-1	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/17/2025 21:28	51102	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:28	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:28	45501	DERR_T2	0	0	0	0	0	0	0.3	0.34	2	2	0	1800	1800	0
3/17/2025 21:28	53501	EVIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 21:28	62604	ENGL_T1	0	0	0	0	0	0	-1.29	-1.26	1	1	0	600	600	0
3/17/2025 21:28	61803	EELI_T2	0	0	0	0	0	0	0.04	0	1	1	0	600	600	0
3/17/2025 21:28	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:29	53501	EVIL_T2	0	1	1	0	0.1	0.1	-0.62	-0.69	1	1	0	600	600	0
3/17/2025 21:29	58401	MORO_T1	0	0	0	0	0	0	-2.42	-2.44	2	2	0	1200	1200	0
3/17/2025 21:29	46902	MNTG_T2	0	0	0	0	0	0	-0.57	-0.56	1	1	0	600	600	0
3/17/2025 21:29	51101	CARL_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
3/17/2025 21:29	58102	NEKI_T1	1	1	0	0.7	0.8	0.1	-1.2	-1.33	1	1	0	1200	1200	0
3/17/2025 21:29	51109	CARL_T1	0	0	0	0	0	0	-1.03	-1.03	1	1	0	1200	1200	0
3/17/2025 21:29	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:29	58402	MORO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:29	44201	POIN_T1	0	15	15	0	0.11	0.11	-2.28	-2.3	1	1	0	1200	1200	0
3/17/2025 21:29	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:30	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.22	1	1	0	600	600	0
3/17/2025 21:30	53801	MBRG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:30	44201	POIN_T1	1	19	18	0.1	0.11	0.01	-2.28	-2.3	1	1	0	1200	1200	0
3/17/2025 21:30	52402	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/17/2025 21:30	58402	MORO_T1	0	1	1	0	0.1	0.1	-0.14	-0.13	2	2	0	1500	1500	0
3/17/2025 21:30	52401	GRPA_T2	0	0	0	0	0	0	-0.86	-0.87	0	0	0	0	0	0
3/17/2025 21:31	52102	MEIS_T1	0	0	0	0	0	0	0	0	2	2	0	900	900	0
3/17/2025 21:31	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 21:31	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.22	1	1	0	600	600	0
3/17/2025 21:31	52101	MEIS_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/17/2025 21:31	52402	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/17/2025 21:31	44201	POIN_T1	1	19	18	0.1	0.11	0.01	-4.56	-4.61	2	2	0	2400	2400	0
3/17/2025 21:31	52403	GRPA_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
3/17/2025 21:32	47203	FAXO_T2	0	0	0	0	0	0	-1.76	-1.77	1	1	0	1200	1200	0
3/17/2025 21:33	43304	WATS_T2	0	0	0	0	0	0	-0.55	-0.53	0	0	0	0	0	0
3/17/2025 21:33	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/17/2025 21:33	59201	THOM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/17/2025 21:33	58401	MORO_T1	0	0	0	0	0	0	-1.21	-1.22	1	1	0	600	600	0
3/17/2025 21:34	52402	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/17/2025 21:35	52402	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/17/2025 21:35	52403	GRPA_T2	0	0	0	0	0	0	-0.65	-0.66	0	0	0	0	0	0
3/17/2025 21:41	65702	RVIL_T2	0	0	0	0	0	0	-1.7	-1.74	1	1	0	600	600	0
3/17/2025 22:00	52502	PROG_T2	0	1	1	0	0.1	0.1	-0.61	-0.6	1	1	0	900	900	0
3/17/2025 22:33	65702	RVIL_T2	0	0	0	0	0	0	-1.74	-1.73	1	1	0	600	600	0
3/18/2025 1:40	60404	DILL_T2	6	0	-6	0.8	0	-0.8	-0.55	-0.55	1	1	0	1200	1200	0
3/18/2025 2:23	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 7:27	51804	EBEN_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 7:27	51802	EBEN_T2	0	0	0	0	0	0	-0.34	-0.23	1	1	0	900	900	0
3/18/2025 7:46	10705	CATA_T2	0	0	0	0	0	0	-0.79	-0.88	1	1	0	900	900	0
3/18/2025 7:46	10702	CATA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 7:47	53502	EVIL_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/18/2025 7:47	53501	EVIL_T2	2	2	0	0.45	0.9	0.45	0	0	0	0	0	0	0	0
3/18/2025 7:54	55002	NEWP_T1	2	3	1	0.65	0.47	-0.18	-0.21	-0.19	0	0	0	0	0	0
3/18/2025 8:03	20601	GRWO_T2	8	9	1	0.64	0.52	-0.12	0	0	0	0	0	0	0	0
3/18/2025 8:07	55002	NEWP_T1	2	4	2	0.6	0.45	-0.15	-0.19	-0.23	0	0	0	0	0	0
3/18/2025 8:15	20601	GRWO_T2	8	6	-2	0.63	0.75	0.12	0.64	0.64	0	0	0	0	0	0
3/18/2025 8:22	60102	COCA_T1	0	0	0	0	0	0	-0.2	-0.05	2	2	0	1200	1200	0
3/18/2025 8:22	57201	ROSS_T1	4	104	100	0.1	0.26	0.16	-1.36	-1.36	0	0	0	0	0	0
3/18/2025 8:22	57205	ROSS_T1	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
3/18/2025 8:22	57203	ROSS_T1	0	1	1	0	0.1	0.1	-0.16	0.44	0	0	0	0	0	0
3/18/2025 8:25	57203	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 8:25	57205	ROSS_T1	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
3/18/2025 8:25	57201	ROSS_T1	4	104	100	0.1	0.26	0.16	0	0	0	0	0	0	0	0
3/18/2025 8:26	57205	ROSS_T1	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
3/18/2025 8:26	57203	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 8:26	57201	ROSS_T1	4	104	100	0.1	0.26	0.16	-2.73	-2.73	0	0	0	0	0	0
3/18/2025 8:27	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 8:27	46203	DANV_T2	35	101	66	0.39	0.47	0.08	0	0	0	0	0	0	0	0
3/18/2025 8:27	60104	COCA_T2	0	4	4	0	0.65	0.65	0	0	0	0	0	0	0	0
3/18/2025 8:27	46204	DANV_T2	2	1	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
3/18/2025 8:27	46206	DANV_T2	2	4	2	1.1	0	-1.1	2.96	2.99	1	1	0	1200	1200	0
3/18/2025 8:29	46203	DANV_T2	35	101	66	0.39	0.47	0.08	-0.83	-0.82	0	0	0	0	0	0
3/18/2025 8:29	46206	DANV_T2	2	4	2	1.1	0	-1.1	0	0	0	0	0	0	0	0
3/18/2025 8:29	46204	DANV_T2	2	1	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
3/18/2025 8:29	53501	EVIL_T2	2	2	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/18/2025 8:30	46203	DANV_T2	71	106	35	0.44	0.55	0.11	-0.83	-0.82	0	0	0	0	0	0
3/18/2025 8:30	46206	DANV_T2	2	2	0	0.35	0	-0.35	2.96	2.99	1	1	0	1200	1200	0
3/18/2025 8:30	46204	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 8:31	63801	HEMP_T1	0	0	0	0	0	0	-0.62	0.29	1	0	-1	900	0	-900
3/18/2025 8:31	63804	HEMP_T1	1	1	0	5.6	6.3	0.7	0	0	0	0	0	0	0	0
3/18/2025 8:32	54505	ENOL_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/18/2025 8:32	54503	ENOL_T2	0	0	0	0	0	0	-0.43	-0.43	1	1	0	600	600	0
3/18/2025 8:32	54502	ENOL_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
3/18/2025 8:32	46203	DANV_T2	71	106	35	0.44	0.55	0.11	0	0	0	0	0	0	0	0
3/18/2025 8:32	46204	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 8:32	46206	DANV_T2	2	2	0	0.35	0	-0.35	2.96	2.99	1	1	0	1200	1200	0
3/18/2025 8:33	54505	ENOL_T2	1	1	0	0.5	0.5	0	-1.2	-1.17	1	1	0	600	600	0
3/18/2025 8:33	54502	ENOL_T2	1	1	0	0.7	1.1	0.4	0	0	0	0	0	0	0	0
3/18/2025 8:35	58201	NEWV_T1	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
3/18/2025 8:36	44901	SCOT_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
3/18/2025 8:36	44902	SCOT_T2	199	325	126	0.15	0.19	0.04	-0.86	-0.92	0	0	0	0	0	0
3/18/2025 8:37	57203	ROSS_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 8:37	57201	ROSS_T1	104	57	-47	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
3/18/2025 8:37	57205	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 8:38	44901	SCOT_T2	0	2	2	0	0.7	0.7	0.16	0.19	0	0	0	0	0	0
3/18/2025 8:38	57203	ROSS_T1	1	0	-1	0.1	0	-0.1	0.44	0.43	0	0	0	0	0	0
3/18/2025 8:38	57205	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 8:38	44902	SCOT_T2	199	325	126	0.15	0.19	0.04	0	0	0	0	0	0	0	0
3/18/2025 8:38	57201	ROSS_T1	104	57	-47	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
3/18/2025 8:39	57203	ROSS_T1	1	0	-1	0.1	0	-0.1	0.88	0.86	0	0	0	0	0	0
3/18/2025 8:39	57205	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 8:39	57201	ROSS_T1	104	57	-47	0.26	0.25	-0.01	0	0	0	0	0	0	0	0
3/18/2025 8:39	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/18/2025 8:40	44901	SCOT_T2	0	2	2	0	0.7	0.7	0	0	0	0	0	0	0	0
3/18/2025 8:40	45702	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/18/2025 8:40	20403	ASHF_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/18/2025 8:40	44902	SCOT_T2	199	325	126	0.15	0.19	0.04	-0.86	-0.92	0	0	0	0	0	0
3/18/2025 8:40	20401	ASHF_T2	0	3	3	0	0.17	0.17	0.41	0.4	0	0	0	0	0	0
3/18/2025 8:46	63501	HEID_TBK1-2	0	1	1	0	0.3	0.3	0.29	0.3	1	1	0	900	900	0
3/18/2025 8:47	21203	ECAR_T1	0	0	0	0	0	0	-0.17	-0.21	0	0	0	0	0	0
3/18/2025 8:47	63501	HEID_TBK1-2	0	1	1	0	0.3	0.3	0.57	0.6	2	2	0	1800	1800	0
3/18/2025 8:48	40101	HUNT_T2	1	1	0	0.7	0.8	0.1	-1.58	-1.68	0	0	0	0	0	0
3/18/2025 8:52	57205	ROSS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/18/2025 8:52	57203	ROSS_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
3/18/2025 8:52	57201	ROSS_T1	24	65	41	0.25	0.25	0	0	0	0	0	0	0	0	0
3/18/2025 8:53	57205	ROSS_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/18/2025 8:53	57201	ROSS_T1	24	65	41	0.25	0.25	0	0	0	0	0	0	0	0	0
3/18/2025 8:53	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 8:55	42701	AUGU_T1	1	2	1	1	1.2	0.2	0	0	2	2	0	1800	1800	0
3/18/2025 8:58	45702	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 8:59	42701	AUGU_T1	1	2	1	1	1.2	0.2	0	0	2	2	0	1800	1800	0
3/18/2025 8:59	53501	EVIL_T2	2	2	0	1	0.8	-0.2	-1.55	-0.73	3	2	-1	1800	1200	-600
3/18/2025 9:00	54503	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 9:00	54502	ENOL_T2	1	1	0	1.1	0.6	-0.5	-2.1	-2.13	1	1	0	600	600	0
3/18/2025 9:00	54505	ENOL_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/18/2025 9:05	45902	AUBU_T1	0	0	0	0	0	0	0	0	3	3	0	1800	1800	0
3/18/2025 9:07	67001	STHI_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
3/18/2025 9:07	67002	STHI_T2	4	11	7	0.13	0.18	0.05	0.64	0.61	0	0	0	0	0	0
3/18/2025 9:07	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/18/2025 9:09	67002	STHI_T2	4	11	7	0.13	0.18	0.05	0.64	0.61	0	0	0	0	0	0
3/18/2025 9:09	67605	WARW_T1	18	31	13	0.35	0.49	0.14	0	0	0	0	0	0	0	0
3/18/2025 9:09	67001	STHI_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
3/18/2025 9:11	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 9:11	67401	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 9:11	67605	WARW_T1	18	31	13	0.35	0.49	0.14	0	0	0	0	0	0	0	0
3/18/2025 9:12	67605	WARW_T1	18	31	13	0.35	0.49	0.14	-0.76	-0.73	0	0	0	0	0	0
3/18/2025 9:12	67605	WARW_T1	18	31	13	0.35	0.49	0.14	-0.76	-0.73	0	0	0	0	0	0
3/18/2025 9:12	67605	WARW_T1	18	31	13	0.35	0.49	0.14	-0.76	-0.73	0	0	0	0	0	0
3/18/2025 9:12	67605	WARW_T1	18	31	13	0.35	0.49	0.14	-0.76	-0.73	0	0	0	0	0	0
3/18/2025 9:12	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 9:13	67605	WARW_T1	18	31	13	0.35	0.49	0.14	-0.76	-0.73	0	0	0	0	0	0
3/18/2025 9:13	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 9:13	61302	EARL_T1	0	0	0	0	0	0	0.66	0.87	2	2	0	1800	1800	0
3/18/2025 9:15	41801	GOCI_T2	2	46	44	0.35	0.22	-0.13	0	0	0	0	0	0	0	0
3/18/2025 9:18	64702	UTI_T2	0	0	0	0	0	0	-0.77	-0.81	0	0	0	0	0	0
3/18/2025 9:18	41801	GOCI_T2	2	46	44	0.35	0.22	-0.13	0	0	0	0	0	0	0	0
3/18/2025 9:19	41801	GOCI_T2	2	46	44	0.35	0.22	-0.13	0	0	0	0	0	0	0	0
3/18/2025 9:20	41801	GOCI_T2	2	46	44	0.35	0.22	-0.13	0	0	0	0	0	0	0	0
3/18/2025 9:21	15701	TANN_T1	1	2	1	3.6	2.1	-1.5	0	0	0	0	0	0	0	0
3/18/2025 9:21	64702	UTI_T2	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
3/18/2025 9:21	41902	REED_T1	0	0	0	0	0	0	1.17	1.11	0	0	0	0	0	0
3/18/2025 9:21	57201	ROSS_T1	54	21	-33	0.25	0.25	0	-1.38	-1.39	0	0	0	0	0	0
3/18/2025 9:21	15704	TANN_T1	1	1	0	0.2	0.1	-0.1	-0.36	-0.34	0	0	0	0	0	0
3/18/2025 9:21	57205	ROSS_T1	1	1	0	0.4	1.2	0.8	0	0	0	0	0	0	0	0
3/18/2025 9:21	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 9:22	65502	MOJO_T2	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
3/18/2025 9:23	41902	REED_T1	0	0	0	0	0	0	1.17	1.11	0	0	0	0	0	0
3/18/2025 9:23	65502	MOJO_T2	0	0	0	0	0	0	-0.3	-0.32	0	0	0	0	0	0
3/18/2025 9:23	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 9:24	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 9:24	41902	REED_T1	0	0	0	0	0	0	1.17	1.11	0	0	0	0	0	0
3/18/2025 9:25	41901	REED_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 9:25	41902	REED_T1	0	0	0	0	0	0	1.17	1.11	0	0	0	0	0	0
3/18/2025 9:26	51402	LYKE_T1	0	0	0	0	0	0	0	0	3	3	0	1800	1800	0
3/18/2025 9:28	51402	LYKE_T1	0	0	0	0	0	0	0	0	3	3	0	1800	1800	0
3/18/2025 9:29	51402	LYKE_T1	0	0	0	0	0	0	0	0	3	3	0	1800	1800	0
3/18/2025 9:31	63501	HEID_TBK1-2	0	2	2	0	0.25	0.25	0.25	0.4	1	1	0	900	900	0
3/18/2025 9:32	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 9:32	53501	EVIL_T2	0	2	2	0	0.25	0.25	-0.8	-0.78	2	2	0	1200	1200	0
3/18/2025 9:36	65901	SAKR_T2	1	2	1	9.5	5	-4.5	0	0	0	0	0	0	0	0
3/18/2025 9:36	65904	SAKR_T2	0	0	0	0	0	0	-1.68	-1.71	2	2	0	900	900	0
3/18/2025 9:36	65902	SAKR_T2	1	1	0	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 9:37	51204	MTON_T2	0	0	0	0	0	0	-0.38	-0.41	1	1	0	600	600	0
3/18/2025 9:37	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 9:37	47402	PENS_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/18/2025 9:37	57205	ROSS_T1	1	2	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/18/2025 9:37	47403	PENS_T1	4	3	-1	0.5	0.63	0.13	0	0	0	0	0	0	0	0
3/18/2025 9:37	57201	ROSS_T1	15	21	6	0.21	0.27	0.06	0	0	0	0	0	0	0	0
3/18/2025 9:37	51204	MTON_T1	0	0	0	0	0	0	-0.08	-0.13	0	0	0	0	0	0
3/18/2025 9:37	47401	PENS_T1	4	7	3	0.3	0.63	0.33	0.8	0.81	0	0	0	0	0	0
3/18/2025 9:38	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 9:38	55002	NEWP_T1	7	7	0	0.79	1.1	0.31	-0.23	-0.23	0	0	0	0	0	0
3/18/2025 9:39	55002	NEWP_T1	7	7	0	0.79	1.1	0.31	-0.23	-0.23	0	0	0	0	0	0
3/18/2025 9:39	55001	NEWP_T1	0	1	1	0	0.2	0.2	-0.67	-0.58	0	0	0	0	0	0
3/18/2025 9:39	54601	SUMM_T2	4	7	3	0.53	0.61	0.08	-1.88	-1.82	2	2	0	2100	2100	0
3/18/2025 9:40	54601	SUMM_T2	4	7	3	0.53	0.61	0.08	0	0	0	0	0	0	0	0
3/18/2025 9:40	54603	SUMM_T2	0	0	0	0	0	0	-0.06	-0.02	1	1	0	900	900	0
3/18/2025 9:40	41902	REED_T1	0	0	0	0	0	0	1.11	1.1	0	0	0	0	0	0
3/18/2025 9:40	55002	NEWP_T1	7	7	0	0.79	1.1	0.31	-0.23	-0.23	0	0	0	0	0	0
3/18/2025 9:40	14801	TREI_T2	2	13	11	0.25	0.28	0.03	0.48	0.42	0	0	0	0	0	0
3/18/2025 9:40	14802	TREI_T2	0	7	7	0	0.18	0.18	0.47	0.52	0	0	0	0	0	0
3/18/2025 9:40	55001	NEWP_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 9:41	54603	SUMM_T2	0	0	0	0	0	0	-0.06	-0.02	1	1	0	900	900	0
3/18/2025 9:41	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 9:41	57201	ROSS_T1	15	21	6	0.21	0.27	0.06	0	0	0	0	0	0	0	0
3/18/2025 9:41	54601	SUMM_T2	4	7	3	0.53	0.61	0.08	0	0	0	0	0	0	0	0
3/18/2025 9:41	57205	ROSS_T1	1	2	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/18/2025 9:42	14802	TREI_T2	0	7	7	0	0.18	0.18	0	0	0	0	0	0	0	0
3/18/2025 9:42	14801	TREI_T2	2	13	11	0.25	0.28	0.03	0.48	0.42	0	0	0	0	0	0
3/18/2025 9:43	67605	WARW_T1	29	46	17	0.48	0.5	0.02	-0.82	-0.8	0	0	0	0	0	0
3/18/2025 9:44	40504	CRES_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 9:44	67605	WARW_T1	29	46	17	0.48	0.5	0.02	-0.82	-0.8	0	0	0	0	0	0
3/18/2025 9:44	40505	CRES_T1	0	1	1	0	0.7	0.7	0.33	0.33	0	0	0	0	0	0
3/18/2025 9:45	40504	CRES_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/18/2025 9:45	40505	CRES_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
3/18/2025 9:46	40505	CRES_T1	1	1	0	0.3	0.7	0.4	0.33	0.33	0	0	0	0	0	0
3/18/2025 9:46	40504	CRES_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/18/2025 9:48	44703	MUNC_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/18/2025 9:48	44701	MUNC_T2	0	0	0	0	0	0	-1.56	-1.5	0	0	0	0	0	0
3/18/2025 9:50	58101	NEKI_T1	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
3/18/2025 9:50	58102	NEKI_T1	2	2	0	0.75	0.8	0.05	0.13	0.2	0	0	0	0	0	0
3/18/2025 9:51	44701	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 9:51	67001	STHI_T2	1	100	99	0.5	0.12	-0.38	0	0	0	0	0	0	0	0
3/18/2025 9:51	44703	MUNC_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/18/2025 9:51	13303	ORVI_T1	0	3	3	0	0.17	0.17	0.92	0.93	0	0	0	0	0	0
3/18/2025 9:51	67002	STHI_T2	11	43	32	0.23	0.23	0	0.59	0.65	0	0	0	0	0	0
3/18/2025 9:52	57205	ROSS_T1	1	2	1	1.2	1.1	-0.1	0.15	0.15	0	0	0	0	0	0
3/18/2025 9:52	57201	ROSS_T1	21	43	22	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
3/18/2025 9:52	57203	ROSS_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 9:53	57403	SPAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/18/2025 9:53	59402	RFLD_T2	0	0	0	0	0	0	-0.14	-0.19	1	1	0	450	450	0
3/18/2025 9:53	13302	ORVI_T2	0	3	3	0	0.37	0.37	1.42	1.44	0	0	0	0	0	0
3/18/2025 9:53	57401	SPAN_T1	27	50	23	0.23	0.29	0.06	-1.01	-1.13	1	1	0	600	600	0
3/18/2025 9:54	67002	STHI_T2	11	43	32	0.23	0.23	0	0.59	0.65	0	0	0	0	0	0
3/18/2025 9:54	67001	STHI_T2	1	100	99	0.5	0.12	-0.38	0	0	0	0	0	0	0	0
3/18/2025 9:55	67001	STHI_T2	1	100	99	0.5	0.12	-0.38	0	0	0	0	0	0	0	0
3/18/2025 9:55	67002	STHI_T2	11	43	32	0.23	0.23	0	0.59	0.65	0	0	0	0	0	0
3/18/2025 9:56	57401	SPAN_T1	27	50	23	0.23	0.29	0.06	0	0	0	0	0	0	0	0
3/18/2025 9:56	57403	SPAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/18/2025 9:56	59402	RFLD_T2	0	0	0	0	0	0	-0.28	-0.38	2	2	0	900	900	0
3/18/2025 9:57	57403	SPAN_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/18/2025 9:57	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 9:57	57401	SPAN_T1	27	50	23	0.23	0.29	0.06	-1.01	-1.13	1	1	0	600	600	0
3/18/2025 9:58	61304	EARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 9:58	61302	EARL_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
3/18/2025 9:58	61301	EARL_T1	0	0	0	0	0	0	-0.36	-0.02	1	1	0	900	900	0
3/18/2025 10:00	59402	RFLD_T2	0	0	0	0	0	0	-0.14	-0.19	1	1	0	450	450	0
3/18/2025 10:00	53903	HALI_T2	2	2	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/18/2025 10:00	57205	ROSS_T1	2	4	2	0.8	0.8	0	0	0	0	0	0	0	0	0
3/18/2025 10:00	62604	ENGL_T1	0	0	0	0	0	0	0.21	0.2	1	1	0	600	600	0
3/18/2025 10:00	67502	WEWI_T2	2	3	1	0.55	0.93	0.38	0	0	0	0	0	0	0	0
3/18/2025 10:00	53902	HALI_T2	1	1	0	5.2	5.6	0.4	0	0	0	0	0	0	0	0
3/18/2025 10:00	57201	ROSS_T1	18	71	53	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
3/18/2025 10:00	44701	MUNC_T2	0	1	1	0	0.3	0.3	-1.5	-1.5	0	0	0	0	0	0
3/18/2025 10:00	53901	HALI_T2	1	1	0	0.3	0.4	0.1	-1.04	-1	0	0	0	0	0	0
3/18/2025 10:00	40504	CRES_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/18/2025 10:00	67503	WEWI_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
3/18/2025 10:00	58202	NEWV_T1	2	1	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/18/2025 10:00	52402	GRPA_T2	7	10	3	0.56	0.66	0.1	0	0	0	0	0	0	0	0
3/18/2025 10:00	41902	REED_T1	0	0	0	0	0	0	1.1	1.1	0	0	0	0	0	0
3/18/2025 10:00	40505	CRES_T1	1	1	0	0.7	0.7	0	0.33	0.32	0	0	0	0	0	0
3/18/2025 10:00	13302	ORVI_T2	3	2	-1	0.37	0.4	0.03	1.42	1.44	0	0	0	0	0	0
3/18/2025 10:00	58201	NEWV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 10:00	10801	CHHI_T1	5	5	0	0.38	0.28	-0.1	-1.33	-1.45	2	2	0	1500	1500	0
3/18/2025 10:00	23403	HONE_T1	1	0	-1	0.2	0	-0.2	-0.7	-0.71	0	0	0	0	0	0
3/18/2025 10:00	44703	MUNC_T2	1	1	0	1.1	1.3	0.2	0	0	0	0	0	0	0	0
3/18/2025 10:00	52403	GRPA_T2	38	30	-8	0.58	0.64	0.06	-0.58	-0.6	0	0	0	0	0	0
3/18/2025 10:00	52401	GRPA_T2	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0	0
3/18/2025 10:01	23403	HONE_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 10:01	54502	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/18/2025 10:01	54505	ENOL_T2	1	1	0	0.7	0.6	-0.1	-1.25	-1.32	1	1	0	600	600	0
3/18/2025 10:01	54504	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 10:03	54504	ENOL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 10:03	54505	ENOL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
3/18/2025 10:03	54502	ENOL_T2	1	1	0	1	0.9	-0.1	-2.07	-2.07	1	1	0	600	600	0
3/18/2025 10:04	47104	MARL_T1	0	0	0	0	0	0	-2.21	-2.21	0	0	0	0	0	0
3/18/2025 10:05	62102	ELAN_T1	1	1	0	0.3	0.6	0.3	0.55	0.57	0	0	0	0	0	0
3/18/2025 10:05	62105	ELAN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/18/2025 10:06	21205	ECAR_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/18/2025 10:06	47101	MARL_T1	0	0	0	0	0	0	-1.24	-1.26	0	0	0	0	0	0
3/18/2025 10:06	21203	ECAR_T1	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
3/18/2025 10:06	10805	CHHI_T2	2	3	1	3.35	2.37	-0.98	-1.54	-1.62	1	1	0	1200	1200	0
3/18/2025 10:07	65901	SAKR_T2	2	2	0	5	4.9	-0.1	0	0	0	0	0	0	0	0
3/18/2025 10:07	65902	SAKR_T2	1	1	0	0.2	0.3	0.1	0	0	1	0	0	0	0	0
3/18/2025 10:07	57201	ROSS_T1	18	71	53	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
3/18/2025 10:07	65904	SAKR_T2	0	0	0	0	0	0	-1.7	-1.7	2	2	0	900	900	0
3/18/2025 10:07	57203	ROSS_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
3/18/2025 10:07	57205	ROSS_T1	2	4	2	0.8	0.8	0	0	0	0	0	0	0	0	0
3/18/2025 10:08	57403	SPAN_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 10:08	58202	NEWV_T1	2	1	-1	0.4	0.2	-0.2	1.53	1.31	0	0	0	0	0	0
3/18/2025 10:08	57401	SPAN_T1	38	39	1	0.28	0.28	0	-2.26	-1.02	2	0	-2	1200	0	-1200
3/18/2025 10:09	47402	PENS_T1	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
3/18/2025 10:09	57401	SPAN_T1	38	39	1	0.28	0.28	0	-2.26	-1.02	2	0	-2	1200	0	-1200
3/18/2025 10:09	59402	RFLD_T2	0	0	0	0	0	0	-0.19	-0.14	1	1	0	450	450	0
3/18/2025 10:09	47403	PENS_T1	2	4	2	0.2	0.75	0.55	0	0	0	0	0	0	0	0
3/18/2025 10:09	47401	PENS_T1	6	14	8	0.65	0.46	-0.19	1.64	1.7	0	0	0	0	0	0
3/18/2025 10:09	57403	SPAN_T1	1	2	1	0.1	0.2	0.1	0.11	0.08	0	0	0	0	0	0
3/18/2025 10:10	57205	ROSS_T1	2	4	2	0.8	0.8	0	0.3	0.31	0	0	0	0	0	0
3/18/2025 10:10	57201	ROSS_T1	18	71	53	0.27	0.22	-0.05	0	0	0	0	0	0	0	0
3/18/2025 10:10	57403	SPAN_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 10:10	57401	SPAN_T1	38	39	1	0.28	0.28	0	-1.13	-0.51	1	0	-1	600	0	-600
3/18/2025 10:11	55105	WERT_T1	0	0	0	0	0	0	-0.68	-0.74	1	1	0	900	900	0
3/18/2025 10:11	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 10:11	57203	ROSS_T1	0	0	0	0	0	0	0.41	0.39	0	0	0	0	0	0
3/18/2025 10:11	57205	ROSS_T1	2	4	2	0.8	0.8	0	0	0	0	0	0	0	0	0
3/18/2025 10:11	57201	ROSS_T1	18	71	53	0.27	0.22	-0.05	-1.34	-1.32	0	0	0	0	0	0
3/18/2025 10:11	55001	NEWP_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/18/2025 10:11	57403	SPAN_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 10:11	55002	NEWP_T1	7	8	1	1	0.94	-0.06	-0.24	-0.24	0	0	0	0	0	0
3/18/2025 10:11	57401	SPAN_T1	38	39	1	0.28	0.28	0	-1.13	-0.51	1	0	-1	600	0	-600
3/18/2025 10:12	57205	ROSS_T1	2	4	2	0.8	0.8	0	0	0	0	0	0	0	0	0
3/18/2025 10:12	57403	SPAN_T1	1	2	1	0.1	0.2	0.1	0.11	0.08	0	0	0	0	0	0
3/18/2025 10:12	55101	WERT_T1	0	0	0	0	0	0	-1.81	-1.92	4	4	0	3000	3000	0
3/18/2025 10:12	57201	ROSS_T1	18	71	53	0.27	0.22	-0.05	-1.34	-1.32	0	0	0	0	0	0
3/18/2025 10:12	59402	RFLD_T2	0	0	0	0	0	0	-0.19	-0.14	1	1	0	450	450	0
3/18/2025 10:12	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 10:12	57401	SPAN_T1	38	39	1	0.28	0.28	0	0	0	0	0	0	0	0	0
3/18/2025 10:13	61304	EARL_T1	1	0	-1	0.1	0	-0.1	-0.72	-0.78	1	1	0	600	600	0
3/18/2025 10:13	61302	EARL_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/18/2025 10:13	57403	SPAN_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 10:13	57401	SPAN_T1	38	39	1	0.28	0.28	0	-1.13	-0.51	1	0	-1	600	0	-600
3/18/2025 10:14	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 10:14	53501	EVIL_T2	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
3/18/2025 10:14	47203	FAXO_T2	0	0	0	0	0	0	-0.41	-0.4	0	0	0	0	0	0
3/18/2025 10:15	53501	EVIL_T2	2	3	1	0.55	0.73	0.18	0	0	0	0	0	0	0	0
3/18/2025 10:15	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 10:18	54502	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
3/18/2025 10:18	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 10:18	10101	ALLE_T3	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
3/18/2025 10:18	54505	ENOL_T2	1	2	1	0.6	0.75	0.15	-1.32	-1.31	1	1	0	600	600	0
3/18/2025 10:19	54505	ENOL_T2	1	2	1	0.6	0.75	0.15	0	0	0	0	0	0	0	0
3/18/2025 10:19	50506	MECH_T1	1	3	2	0.2	0.37	0.17	-0.07	0.04	0	0	0	0	0	0
3/18/2025 10:19	50505	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 10:19	54504	ENOL_T2	0	0	0	0	0	0	-1.19	-1.19	1	1	0	600	600	0
3/18/2025 10:19	50501	MECH_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
3/18/2025 10:19	50502	MECH_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
3/18/2025 10:19	50504	MECH_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/18/2025 10:19	54502	ENOL_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
3/18/2025 10:20	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 10:21	50504	MECH_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/18/2025 10:21	50501	MECH_T1	0	3	3	0	0.33	0.33	-0.55	-0.35	0	0	0	0	0	0
3/18/2025 10:21	50502	MECH_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
3/18/2025 10:21	50506	MECH_T1	1	3	2	0.2	0.37	0.17	0	0	0	0	0	0	0	0
3/18/2025 10:21	50505	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 10:22	47401	PENS_T1	14	8	-6	0.46	0.59	0.13	0	0	0	0	0	0	0	0
3/18/2025 10:22	44701	MUNC_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/18/2025 10:22	57201	ROSS_T1	43	265	222	0.2	0.35	0.15	-1.32	-1.26	0	0	0	0	0	0
3/18/2025 10:22	57205	ROSS_T1	2	53	51	1.1	0.27	-0.83	0	0	0	0	0	0	0	0
3/18/2025 10:22	47402	PENS_T1	1	2	1	0.1	0.5	0.4	0	0	0	0	0	0	0	0
3/18/2025 10:22	48302	ORWI_T2	2	2	0	8.85	8.85	0	0	0	0	0	0	0	0	0
3/18/2025 10:22	48303	ORWI_T2	1	2	1	0.5	0.4	-0.1	0.54	0.5	0	0	0	0	0	0
3/18/2025 10:22	47403	PENS_T1	4	5	1	0.65	0.8	0.15	0	0	0	0	0	0	0	0
3/18/2025 10:22	57203	ROSS_T1	0	453	453	0	0.13	0.13	0	0	0	0	0	0	0	0
3/18/2025 10:22	44703	MUNC_T2	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
3/18/2025 10:23	57401	SPAN_T1	39	55	16	0.28	0.27	-0.01	-0.51	-0.45	0	0	0	0	0	0
3/18/2025 10:23	57205	ROSS_T1	2	53	51	1.1	0.27	-0.83	0	0	0	0	0	0	0	0
3/18/2025 10:23	58102	NEKI_T1	2	2	0	0.8	0.95	0.15	0.21	0.13	0	0	0	0	0	0
3/18/2025 10:23	57203	ROSS_T1	0	453	453	0	0.13	0.13	0	0	0	0	0	0	0	0
3/18/2025 10:23	57403	SPAN_T1	1	13	12	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/18/2025 10:23	53501	EVIL_T2	2	3	1	0.55	0.73	0.18	-0.84	-0.84	2	2	0	1200	1200	0
3/18/2025 10:23	58101	NEKI_T1	2	5	3	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
3/18/2025 10:23	57201	ROSS_T1	43	265	222	0.2	0.35	0.15	-1.32	-1.26	0	0	0	0	0	0
3/18/2025 10:23	23502	GEOR_T1	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
3/18/2025 10:23	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 10:24	57401	SPAN_T1	39	55	16	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
3/18/2025 10:24	57203	ROSS_T1	0	453	453	0	0.13	0.13	0	0	0	0	0	0	0	0
3/18/2025 10:24	57205	ROSS_T1	2	53	51	1.1	0.27	-0.83	0.16	0.14	0	0	0	0	0	0
3/18/2025 10:24	57201	ROSS_T1	43	265	222	0.2	0.35	0.15	0	0	0	0	0	0	0	0
3/18/2025 10:24	57403	SPAN_T1	1	13	12	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/18/2025 10:25	14802	TREI_T2	7	8	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/18/2025 10:25	14801	TREI_T2	10	19	9	0.34	0.32	-0.02	0.44	0.41	0	0	0	0	0	0
3/18/2025 10:27	14801	TREI_T2	10	19	9	0.34	0.32	-0.02	0.44	0.41	0	0	0	0	0	0
3/18/2025 10:27	14802	TREI_T2	7	8	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/18/2025 10:28	42701	AUGU_T1	2	3	1	0.8	0.77	-0.03	0	0	2	2	0	1800	1800	0
3/18/2025 10:28	67901	WNHO_T2	0	0	0	0	0	0	0.64	0.69	1	1	0	900	900	0
3/18/2025 10:29	53501	EVIL_T2	2	3	1	0.55	0.73	0.18	-0.84	-0.84	2	2	0	1200	1200	0
3/18/2025 10:29	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 10:30	53502	EVIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/18/2025 10:30	53501	EVIL_T2	2	2	0	0.4	0.85	0.45	-0.84	-0.84	2	2	0	1200	1200	0
3/18/2025 10:30	61701	ELIZ_T1	2	2	0	3.45	3.05	-0.4	0	0	0	0	0	0	0	0
3/18/2025 10:30	61703	ELIZ_T1	6	2	-4	0.47	0.3	-0.17	-2.77	-1.99	2	1	-1	2100	900	-1200
3/18/2025 10:31	53501	EVIL_T2	2	2	0	0.4	0.85	0.45	-1.68	-1.68	4	4	0	2400	2400	0
3/18/2025 10:31	52403	GRPA_T2	24	29	5	0.63	0.66	0.03	0	0	0	0	0	0	0	0
3/18/2025 10:31	52402	GRPA_T2	6	12	6	0.33	0.57	0.24	0	0	0	0	0	0	0	0
3/18/2025 10:31	17802	GILB_T1	2	3	1	0.85	0.8	-0.05	0.16	0.14	0	0	0	0	0	0
3/18/2025 10:31	10801	CHHI_T1	1	3	2	0.2	0.23	0.03	-0.81	-0.77	1	1	0	900	900	0
3/18/2025 10:31	53502	EVIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/18/2025 10:31	63501	HEID_TBK1-2	4	15	11	0.28	0.33	0.05	0.16	0.27	1	1	0	900	900	0
3/18/2025 10:31	52401	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/18/2025 10:32	61703	ELIZ_T1	6	2	-4	0.47	0.3	-0.17	-2.77	-1.99	2	1	-1	2100	900	-1200
3/18/2025 10:32	61701	ELIZ_T1	2	2	0	3.45	3.05	-0.4	0.11	0.25	0	0	0	0	0	0
3/18/2025 10:32	63501	HEID_TBK1-2	4	15	11	0.28	0.33	0.05	0.16	0.27	1	1	0	900	900	0
3/18/2025 10:33	61703	ELIZ_T1	6	2	-4	0.47	0.3	-0.17	-8.32	-5.96	6	3	-3	6300	2700	-3600
3/18/2025 10:33	61701	ELIZ_T1	2	2	0	3.45	3.05	-0.4	0	0	0	0	0	0	0	0
3/18/2025 10:33	53502	EVIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/18/2025 10:33	63501	HEID_TBK1-2	4	15	11	0.28	0.33	0.05	0.16	0.27	1	1	0	900	900	0
3/18/2025 10:33	53501	EVIL_T2	2	2	0	0.4	0.85	0.45	-0.84	-0.84	2	2	0	1200	1200	0
3/18/2025 10:34	63501	HEID_TBK1-2	4	15	11	0.28	0.33	0.05	0.16	0.27	1	1	0	900	900	0
3/18/2025 10:35	53501	EVIL_T2	2	2	0	0.4	0.85	0.45	-0.84	-0.84	2	2	0	1200	1200	0
3/18/2025 10:35	53502	EVIL_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/18/2025 10:36	57203	ROSS_T1	0	483	483	0	0.13	0.13	0.39	0.36	0	0	0	0	0	0
3/18/2025 10:36	57205	ROSS_T1	4	88	84	0.8	0.24	-0.56	0	0	0	0	0	0	0	0
3/18/2025 10:36	52401	GRPA_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/18/2025 10:36	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 10:36	52402	GRPA_T2	6	12	6	0.33	0.57	0.24	0	0	0	0	0	0	0	0
3/18/2025 10:36	57201	ROSS_T1	68	286	218	0.22	0.35	0.13	0	0	0	0	0	0	0	0
3/18/2025 10:36	52403	GRPA_T2	24	29	5	0.63	0.66	0.03	0	0	0	0	0	0	0	0
3/18/2025 10:37	43802	SWIL_T1	0	1	1	0	0.1	0.1	-0.2	-0.19	1	1	0	600	600	0
3/18/2025 10:37	66901	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 10:37	43801	SWIL_T1	10	31	21	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
3/18/2025 10:37	66903	SHIL_T2	0	0	0	0	0	0	-2.32	-2.36	0	0	0	0	0	0
3/18/2025 10:39	10903	COOP_T2	2	4	2	0.4	0.68	0.28	0	0	0	0	0	0	0	0
3/18/2025 10:39	57205	ROSS_T1	4	88	84	0.8	0.24	-0.56	0	0	0	0	0	0	0	0
3/18/2025 10:39	57201	ROSS_T1	68	286	218	0.22	0.35	0.13	0	0	0	0	0	0	0	0
3/18/2025 10:39	10901	COOP_T2	1	2	1	0.3	0.55	0.25	0	0	0	0	0	0	0	0
3/18/2025 10:39	57203	ROSS_T1	0	483	483	0	0.13	0.13	0.72	0.74	0	0	0	0	0	0
3/18/2025 10:40	58701	ROSE_T2	0	0	0	0	0	0	-0.23	-0.26	1	1	0	600	600	0
3/18/2025 10:40	57203	ROSS_T1	0	483	483	0	0.13	0.13	0.36	0.37	0	0	0	0	0	0
3/18/2025 10:40	66903	SHIL_T2	0	0	0	0	0	0	-1.16	-1.18	0	0	0	0	0	0
3/18/2025 10:40	66901	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 10:40	57201	ROSS_T1	68	286	218	0.22	0.35	0.13	0	0	0	0	0	0	0	0
3/18/2025 10:40	57205	ROSS_T1	4	88	84	0.8	0.24	-0.56	0	0	0	0	0	0	0	0
3/18/2025 10:40	58705	ROSE_T2	5	5	0	2.98	3.56	0.58	0	0	0	0	0	0	0	0
3/18/2025 10:41	61101	BERK_T5	2	3	1	0.55	0.77	0.22	0	0	0	0	0	0	0	0
3/18/2025 10:41	66901	SHIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 10:41	43801	SWIL_T1	10	31	21	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
3/18/2025 10:41	67605	WARW_T1	18	65	47	0.42	0.65	0.23	-1.05	-1.06	0	0	0	0	0	0
3/18/2025 10:41	66902	SHIL_T2	0	0	0	0	0	0	-1.05	-1.04	0	0	0	0	0	0
3/18/2025 10:41	43802	SWIL_T1	0	1	1	0	0.1	0.1	-0.6	-0.57	3	3	0	1800	1800	0
3/18/2025 10:41	61102	BERK_T5	2	3	1	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/18/2025 10:41	66903	SHIL_T2	0	0	0	0	0	0	-1.16	-1.18	0	0	0	0	0	0
3/18/2025 10:41	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 10:41	61103	BERK_T5	1	10	9	0.2	0.26	0.06	0.08	0.04	0	0	0	0	0	0
3/18/2025 10:42	43801	SWIL_T1	10	31	21	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
3/18/2025 10:42	43802	SWIL_T1	0	1	1	0	0.1	0.1	-0.2	-0.19	1	1	0	600	600	0
3/18/2025 10:42	67603	WARW_T1	0	1	1	0	0.1	0.1	0.07	0.05	0	0	0	0	0	0
3/18/2025 10:42	67605	WARW_T1	18	65	47	0.42	0.65	0.23	-4.19	-4.24	0	0	0	0	0	0
3/18/2025 10:43	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 10:43	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 10:43	61102	BERK_T5	2	3	1	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/18/2025 10:43	61101	BERK_T5	2	3	1	0.55	0.77	0.22	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/18/2025 10:43	51303	WIND_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 10:43	51301	WIND_T1	3	5	2	0.33	0.34	0.01	0	0	0	0	0	0	0	0
3/18/2025 10:43	61103	BERK_T5	1	10	9	0.2	0.26	0.06	0.08	0.04	0	0	0	0	0	0
3/18/2025 10:43	51305	WIND_T1	1	1	0	0.4	0.6	0.2	0.21	0.2	0	0	0	0	0	0
3/18/2025 10:43	67605	WARW_T1	18	65	47	0.42	0.65	0.23	-1.05	-1.06	0	0	0	0	0	0
3/18/2025 10:44	67603	WARW_T1	0	1	1	0	0.1	0.1	0.07	0.05	0	0	0	0	0	0
3/18/2025 10:44	61102	BERK_T5	2	3	1	0.1	0.23	0.13	0	0	0	0	0	0	0	0
3/18/2025 10:44	61101	BERK_T5	2	3	1	0.55	0.77	0.22	0	0	0	0	0	0	0	0
3/18/2025 10:44	61103	BERK_T5	1	10	9	0.2	0.26	0.06	0.08	0.04	0	0	0	0	0	0
3/18/2025 10:44	67605	WARW_T1	18	65	47	0.42	0.65	0.23	0	0	0	0	0	0	0	0
3/18/2025 10:45	61101	BERK_T5	3	4	1	0.7	0.63	-0.07	0	0	0	0	0	0	0	0
3/18/2025 10:45	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 10:45	61102	BERK_T5	3	3	0	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
3/18/2025 10:45	61103	BERK_T5	8	12	4	0.24	0.24	0	0.16	0.07	0	0	0	0	0	0
3/18/2025 10:45	11202	ELHE_T2	0	0	0	0	0	0	0.39	0.38	1	1	0	1200	1200	0
3/18/2025 10:45	67605	WARW_T1	53	60	7	0.54	0.68	0.14	0	0	0	0	0	0	0	0
3/18/2025 10:46	67605	WARW_T1	53	60	7	0.54	0.68	0.14	-1.05	-1.06	0	0	0	0	0	0
3/18/2025 10:46	64203	KINZ_T1	0	0	0	0	0	0	-0.43	0.18	3	2	-1	2100	1800	-300
3/18/2025 10:46	67603	WARW_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 10:46	61801	EELI_T2	1	9	8	0.4	0.41	0.01	-0.35	-0.4	0	0	0	0	0	0
3/18/2025 10:46	64204	KINZ_T1	3	2	-1	1.03	0.4	-0.63	0	0	0	0	0	0	0	0
3/18/2025 10:49	10801	CHHI_T1	3	5	2	0.17	0.3	0.13	-0.77	-0.76	1	1	0	900	900	0
3/18/2025 10:52	41602	CLEV_T1	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
3/18/2025 10:52	41601	CLEV_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
3/18/2025 10:52	58401	MORO_T1	0	0	0	0	0	0	-1.11	-1.05	1	1	0	600	600	0
3/18/2025 10:53	57401	SPAN_T1	54	136	82	0.27	0.34	0.07	-0.88	-0.96	0	0	0	0	0	0
3/18/2025 10:53	58401	MORO_T1	0	0	0	0	0	0	-1.11	-1.05	1	1	0	600	600	0
3/18/2025 10:53	57403	SPAN_T1	13	25	12	0.35	0.45	0.1	0	0	0	0	0	0	0	0
3/18/2025 10:54	58401	MORO_T1	0	0	0	0	0	0	-1.11	-1.05	1	1	0	600	600	0
3/18/2025 10:54	41602	CLEV_T1	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
3/18/2025 10:54	57401	SPAN_T1	54	136	82	0.27	0.34	0.07	0	0	0	0	0	0	0	0
3/18/2025 10:54	57403	SPAN_T1	13	25	12	0.35	0.45	0.1	0.06	0.1	0	0	0	0	0	0
3/18/2025 10:54	41601	CLEV_T1	1	1	0	0.4	1	0.6	0	0	0	0	0	0	0	0
3/18/2025 10:55	57404	SPAN_T2	0	8	8	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 10:55	24202	PROV_T4	2	13	11	0.1	0.12	0.02	-0.78	-0.72	1	1	0	1200	1200	0
3/18/2025 10:55	57403	SPAN_T1	13	25	12	0.35	0.45	0.1	0	0	0	0	0	0	0	0
3/18/2025 10:55	57402	SPAN_T2	19	119	100	0.27	0.21	-0.06	-0.56	-0.56	0	0	0	0	0	0
3/18/2025 10:55	57401	SPAN_T1	54	136	82	0.27	0.34	0.07	-0.44	-0.48	0	0	0	0	0	0
3/18/2025 10:55	24203	PROV_T4	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/18/2025 10:56	51306	WIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 10:56	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 10:56	51302	WIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 10:56	57401	SPAN_T1	54	136	82	0.27	0.34	0.07	0	0	0	0	0	0	0	0
3/18/2025 10:56	57403	SPAN_T1	13	25	12	0.35	0.45	0.1	0	0	0	0	0	0	0	0
3/18/2025 10:57	51301	WIND_T1	3	5	2	0.2	0.34	0.14	0	0	0	0	0	0	0	0
3/18/2025 10:57	51303	WIND_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 10:57	62102	ELAN_T1	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
3/18/2025 10:57	62105	ELAN_T1	2	3	1	0.3	0.57	0.27	0	0	0	0	0	0	0	0
3/18/2025 10:57	62106	ELAN_T1	1	1	0	0.1	0.2	0.1	1.16	1.19	0	0	0	0	0	0
3/18/2025 10:57	51305	WIND_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/18/2025 10:58	51302	WIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 10:58	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-0.96	0	0	0	0	0	0
3/18/2025 10:58	51304	WIND_T2	0	0	0	0	0	0	0.48	0.48	0	0	0	0	0	0
3/18/2025 10:58	51306	WIND_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 11:00	41305	FISH_T1	1	1	0	0.6	1.4	0.8	0	0	0	0	0	0	0	0
3/18/2025 11:00	41301	FISH_T1	5	11	6	1.16	0.89	-0.27	-0.28	-0.29	0	0	0	0	0	0
3/18/2025 11:00	40902	JESH_T1	0	0	0	0	0	0	-1.28	-1.39	1	1	0	600	600	0
3/18/2025 11:00	40901	JESH_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
3/18/2025 11:01	40902	JESH_T1	0	0	0	0	0	0	-1.28	-1.39	1	1	0	600	600	0
3/18/2025 11:01	41301	FISH_T1	5	11	6	1.16	0.89	-0.27	-0.56	-0.58	0	0	0	0	0	0
3/18/2025 11:01	41305	FISH_T1	1	1	0	0.6	1.4	0.8	0	0	0	0	0	0	0	0
3/18/2025 11:01	44301	BEAV_T2	3	8	5	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/18/2025 11:01	62102	ELAN_T1	1	2	1	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
3/18/2025 11:01	44302	BEAV_T2	3	7	4	0.6	0.67	0.07	0	0	0	0	0	0	0	0
3/18/2025 11:01	40901	JESH_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
3/18/2025 11:01	62106	ELAN_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/18/2025 11:01	62105	ELAN_T1	3	3	0	0.5	0.5	0	0.78	0.8	0	0	0	0	0	0
3/18/2025 11:02	52003	LING_T1	1	2	1	0.2	0.75	0.55	0	0	0	0	0	0	0	0
3/18/2025 11:02	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 11:02	52001	LING_T1	0	0	0	0	0	0	0.18	0.22	0	0	0	0	0	0
3/18/2025 11:02	40901	JESH_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
3/18/2025 11:02	41301	FISH_T1	5	11	6	1.16	0.89	-0.27	-0.28	-0.29	0	0	0	0	0	0
3/18/2025 11:02	41305	FISH_T1	1	1	0	0.6	1.4	0.8	0	0	0	0	0	0	0	0
3/18/2025 11:04	40101	HUNT_T2	1	19	18	0.3	0.17	-0.13	-1.57	-1.66	0	0	0	0	0	0
3/18/2025 11:05	45802	HEGI_T2	18	48	30	0.69	1.69	1	0	0	0	0	0	0	0	0
3/18/2025 11:05	52101	MEIS_T1	2	5	3	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
3/18/2025 11:05	65207	PRIN_T4	3	2	-1	2.67	1.6	-1.07	0	0	0	0	0	0	0	0
3/18/2025 11:05	52002	LING_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/18/2025 11:05	52004	LING_T2	6	10	4	2.82	1.94	-0.88	0.52	0.56	0	0	0	0	0	0
3/18/2025 11:05	52102	MEIS_T1	1	3	2	0.1	0.4	0.3	0	0	2	2	0	900	900	0
3/18/2025 11:05	52006	LING_T2	2	3	1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
3/18/2025 11:05	65206	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 11:06	52502	PROG_T2	1	4	3	0.8	0.38	-0.42	0	0	0	0	0	0	0	0
3/18/2025 11:07	52006	LING_T2	2	3	1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
3/18/2025 11:07	52004	LING_T2	6	10	4	2.82	1.94	-0.88	0.28	0.27	0	0	0	0	0	0
3/18/2025 11:07	52002	LING_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/18/2025 11:08	52502	PROG_T2	1	4	3	0.8	0.38	-0.42	-0.65	-0.6	1	1	0	900	900	0
3/18/2025 11:09	52502	PROG_T2	1	4	3	0.8	0.38	-0.42	0	0	0	0	0	0	0	0
3/18/2025 11:09	14801	TREI_T2	11	50	39	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
3/18/2025 11:09	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 11:09	14802	TREI_T2	8	19	11	0.22	0.32	0.1	0.38	0.35	0	0	0	0	0	0
3/18/2025 11:10	52502	PROG_T2	1	4	3	0.8	0.38	-0.42	-0.65	-0.6	1	1	0	900	900	0
3/18/2025 11:12	14801	TREI_T2	11	50	39	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
3/18/2025 11:12	14802	TREI_T2	8	19	11	0.22	0.32	0.1	0.38	0.35	0	0	0	0	0	0
3/18/2025 11:12	45501	DERR_T2	4	8	4	0.48	0.46	-0.02	0.25	0.21	2	2	0	1800	1800	0
3/18/2025 11:14	51305	WIND_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/18/2025 11:14	51301	WIND_T1	5	6	1	0.34	0.38	0.04	0	0	0	0	0	0	0	0
3/18/2025 11:14	51303	WIND_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/18/2025 11:15	45501	DERR_T2	5	104	99	0.46	0.49	0.03	0.5	0.42	4	4	0	3600	3600	0
3/18/2025 11:16	45501	DERR_T2	5	104	99	0.46	0.49	0.03	0.25	0.21	2	2	0	1800	1800	0
3/18/2025 11:18	61803	EELI_T2	0	1	1	0	0.3	0.3	0.91	0.92	0	0	0	0	0	0
3/18/2025 11:18	61801	EELI_T2	8	24	16	0.44	0.38	-0.06	0	0	0	0	0	0	0	0
3/18/2025 11:22	57203	ROSS_T1	537	845	308	0.17	0.26	0.09	0	0	0	0	0	0	0	0
3/18/2025 11:22	57201	ROSS_T1	367	486	119	0.36	0.4	0.04	0	0	0	0	0	0	0	0
3/18/2025 11:22	44801	EDAN_T2	2	7	5	0.9	0.6	-0.3	-0.96	-0.84	0	0	0	0	0	0
3/18/2025 11:22	52502	PROG_T2	1	4	3	1	0.38	-0.62	0	0	0	0	0	0	0	0
3/18/2025 11:22	47104	MARL_T1	0	0	0	0	0	0	-0.89	-0.86	0	0	0	0	0	0
3/18/2025 11:22	47101	MARL_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 11:22	57205	ROSS_T1	198	574	376	0.21	0.25	0.04	0	0	0	0	0	0	0	0
3/18/2025 11:23	44801	EDAN_T2	2	7	5	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
3/18/2025 11:24	57401	SPAN_T1	133	255	122	0.34	0.34	0	-0.47	-0.51	0	0	0	0	0	0
3/18/2025 11:24	57403	SPAN_T1	24	110	86	0.45	0.31	-0.14	0.16	0.1	0	0	0	0	0	0
3/18/2025 11:25	57402	SPAN_T2	118	156	38	0.2	0.26	0.06	0	0	0	0	0	0	0	0
3/18/2025 11:25	57401	SPAN_T1	133	255	122	0.34	0.34	0	0	0	0	0	0	0	0	0
3/18/2025 11:25	57404	SPAN_T2	8	9	1	0.1	0.28	0.18	0	0	0	0	0	0	0	0
3/18/2025 11:25	57403	SPAN_T1	24	110	86	0.45	0.31	-0.14	0.16	0.1	0	0	0	0	0	0
3/18/2025 11:26	57404	SPAN_T2	8	9	1	0.1	0.28	0.18	0.24	0.53	1	1	0	1200	1200	0
3/18/2025 11:26	20403	ASHF_T2	84	106	22	0.36	0.41	0.05	0.02	-0.03	0	0	0	0	0	0
3/18/2025 11:26	57203	ROSS_T1	537	845	308	0.17	0.26	0.09	0	0	0	0	0	0	0	0
3/18/2025 11:26	60801	BUCK_T1	0	0	0	0	0	0	0.19	0.25	0	0	0	0	0	0
3/18/2025 11:26	57403	SPAN_T1	24	110	86	0.45	0.31	-0.14	0	0	0	0	0	0	0	0
3/18/2025 11:26	57401	SPAN_T1	133	255	122	0.34	0.34	0	-0.47	-0.51	0	0	0	0	0	0
3/18/2025 11:26	57402	SPAN_T2	118	156	38	0.2	0.26	0.06	-0.55	-0.56	0	0	0	0	0	0
3/18/2025 11:26	20402	ASHF_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 11:26	57201	ROSS_T1	367	486	119	0.36	0.4	0.04	0	0	0	0	0	0	0	0
3/18/2025 11:26	20401	ASHF_T2	6	19	13	0.38	0.53	0.15	0.3	0.25	0	0	0	0	0	0
3/18/2025 11:26	57205	ROSS_T1	198	574	376	0.21	0.25	0.04	0	0	0	0	0	0	0	0
3/18/2025 11:27	57403	SPAN_T1	24	110	86	0.45	0.31	-0.14	0.08	0.05	0	0	0	0	0	0
3/18/2025 11:27	20402	ASHF_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 11:27	20403	ASHF_T2	84	106	22	0.36	0.41	0.05	0	0	0	0	0	0	0	0
3/18/2025 11:27	57402	SPAN_T2	118	156	38	0.2	0.26	0.06	-0.55	-0.56	0	0	0	0	0	0
3/18/2025 11:27	57404	SPAN_T2	8	9	1	0.1	0.28	0.18	0	0	0	0	0	0	0	0
3/18/2025 11:27	57401	SPAN_T1	133	255	122	0.34	0.34	0	0	0	0	0	0	0	0	0
3/18/2025 11:27	20401	ASHF_T2	6	19	13	0.38	0.53	0.15	0.3	0.25	0	0	0	0	0	0
3/18/2025 11:28	20403	ASHF_T2	84	106	22	0.36	0.41	0.05	0.02	-0.03	0	0	0	0	0	0
3/18/2025 11:28	20402	ASHF_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 11:28	51302	WIND_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 11:28	51304	WIND_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/18/2025 11:28	51306	WIND_T2	1	3	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/18/2025 11:28	57403	SPAN_T1	24	110	86	0.45	0.31	-0.14	0.08	0.05	0	0	0	0	0	0
3/18/2025 11:28	57401	SPAN_T1	133	255	122	0.34	0.34	0	0	0	0	0	0	0	0	0
3/18/2025 11:28	20401	ASHF_T2	6	19	13	0.38	0.53	0.15	0	0	0	0	0	0	0	0
3/18/2025 11:29	20403	ASHF_T2	84	106	22	0.36	0.41	0.05	0.02	-0.03	0	0	0	0	0	0
3/18/2025 11:29	20401	ASHF_T2	6	19	13	0.38	0.53	0.15	0.3	0.25	0	0	0	0	0	0
3/18/2025 11:29	57402	SPAN_T2	118	156	38	0.2	0.26	0.06	0	0	0	0	0	0	0	0
3/18/2025 11:29	57404	SPAN_T2	8	9	1	0.1	0.28	0.18	0.24	0.53	1	1	0	1200	1200	0
3/18/2025 11:29	57403	SPAN_T1	24	110	86	0.45	0.31	-0.14	0.08	0.05	0	0	0	0	0	0
3/18/2025 11:29	20402	ASHF_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 11:29	57401	SPAN_T1	133	255	122	0.34	0.34	0	0	0	0	0	0	0	0	0
3/18/2025 11:30	47201	FAXO_T2	0	0	0	0	0	0	-2.35	-2.35	1	1	0	1200	1200	0
3/18/2025 11:31	61704	ELIZ_T2	4	7	3	0.33	0.54	0.21	0	0	0	0	0	0	0	0
3/18/2025 11:31	61702	ELIZ_T2	5	11	6	1.02	0.82	-0.2	-2.07	-2.05	2	2	0	1500	1500	0
3/18/2025 11:32	45401	DERR_T2	7	9	2	0.47	0.38	-0.09	0.21	0.21	2	2	0	1800	1800	0
3/18/2025 11:32	51306	WIND_T2	2	4	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/18/2025 11:32	51302	WIND_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 11:32	51304	WIND_T2	1	3	2	0.1	0.2	0.1	0.45	0.45	0	0	0	0	0	0
3/18/2025 11:34	40101	HUNT_T2	14	5	-9	0.14	0.14	0	-1.65	-1.62	0	0	0	0	0	0
3/18/2025 11:35	15603	NSTR_T2	4	5	1	0.3	0.44	0.14	-0.67	-0.64	0	0	0	0	0	0
3/18/2025 11:35	15602	NSTR_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/18/2025 11:35	15601	NSTR_T2	1	4	3	0.1	0.33	0.23	0	0	0	0	0	0	0	0
3/18/2025 11:35	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 11:35	58401	MORO_T1	2	5	3	0.2	0.36	0.16	-1.06	-1.1	1	1	0	600	600	0
3/18/2025 11:36	41602	CLEV_T1	4	3	-1	0.58	0.57	-0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/18/2025 11:36	41601	CLEV_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/18/2025 11:36	44801	EDAN_T2	5	7	2	0.58	0.67	0.09	-0.42	-0.44	0	0	0	0	0	0
3/18/2025 11:36	58401	MORO_T1	2	5	3	0.2	0.36	0.16	-1.06	-1.1	1	1	0	600	600	0
3/18/2025 11:36	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 11:37	65902	SAKR_T2	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 11:37	65904	SAKR_T2	3	13	10	0.1	0.36	0.26	0	0	0	0	0	0	0	0
3/18/2025 11:37	40101	HUNT_T2	14	5	-9	0.14	0.14	0	0	0	0	0	0	0	0	0
3/18/2025 11:37	65901	SAKR_T2	2	2	0	4.95	5.45	0.5	-1.28	-1.24	1	1	0	900	900	0
3/18/2025 11:38	58401	MORO_T1	2	5	3	0.2	0.36	0.16	-1.1	-1.05	1	1	0	600	600	0
3/18/2025 11:38	59201	THOM_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
3/18/2025 11:38	47104	MARL_T1	0	1	1	0	0	0	-0.86	-0.88	0	0	0	0	0	0
3/18/2025 11:38	47101	MARL_T1	1	1	0	0.6	0.1	-0.5	0	0	0	0	0	0	0	0
3/18/2025 11:38	13905	SEID_T1	1	2	1	0.2	0.35	0.15	0.24	0.22	0	0	0	0	0	0
3/18/2025 11:38	59202	THOM_T1	23	37	14	0.36	0.37	0.01	0	0	0	0	0	0	0	0
3/18/2025 11:38	43201	MVIL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/18/2025 11:38	13902	SEID_T1	1	2	1	0.5	1	0.5	0	0	0	0	0	0	0	0
3/18/2025 11:38	43202	MVIL_T2	9	57	48	0.23	0.33	0.1	-0.58	-0.58	0	0	0	0	0	0
3/18/2025 11:38	58402	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 11:39	52401	GRPA_T2	2	8	6	0.4	0.31	-0.09	0	0	0	0	0	0	0	0
3/18/2025 11:39	43802	SWIL_T1	4	9	5	0.18	0.36	0.18	-0.21	-0.22	1	1	0	600	600	0
3/18/2025 11:39	52403	GRPA_T2	41	144	103	0.62	0.63	0.01	0	0	0	0	0	0	0	0
3/18/2025 11:39	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 11:39	43801	SWIL_T1	33	79	46	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
3/18/2025 11:39	52402	GRPA_T2	22	107	85	0.58	0.48	-0.1	0	0	0	0	0	0	0	0
3/18/2025 11:40	52401	GRPA_T2	2	8	6	0.4	0.31	-0.09	-0.78	-0.79	0	0	0	0	0	0
3/18/2025 11:40	52402	GRPA_T2	22	107	85	0.58	0.48	-0.1	0	0	0	0	0	0	0	0
3/18/2025 11:40	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 11:40	59202	THOM_T1	23	37	14	0.36	0.37	0.01	0	0	0	0	0	0	0	0
3/18/2025 11:40	52403	GRPA_T2	41	144	103	0.62	0.63	0.01	0	0	0	0	0	0	0	0
3/18/2025 11:40	59201	THOM_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
3/18/2025 11:41	52404	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 11:41	52403	GRPA_T2	41	144	103	0.62	0.63	0.01	-1.12	-1.2	0	0	0	0	0	0
3/18/2025 11:41	52402	GRPA_T2	22	107	85	0.58	0.48	-0.1	0	0	0	0	0	0	0	0
3/18/2025 11:41	52401	GRPA_T2	2	8	6	0.4	0.31	-0.09	0	0	0	0	0	0	0	0
3/18/2025 11:43	65904	SAKR_T2	3	13	10	0.1	0.36	0.26	0	0	0	0	0	0	0	0
3/18/2025 11:43	59202	THOM_T1	23	37	14	0.36	0.37	0.01	0	0	0	0	0	0	0	0
3/18/2025 11:43	65902	SAKR_T2	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 11:43	59201	THOM_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
3/18/2025 11:43	65901	SAKR_T2	2	2	0	4.95	5.45	0.5	-1.28	-1.24	1	1	0	900	900	0
3/18/2025 11:49	58401	MORO_T1	4	8	4	0.28	0.3	0.02	0	0	0	0	0	0	0	0
3/18/2025 11:49	58402	MORO_T1	0	3	3	0	0.23	0.23	-0.07	-0.08	2	2	0	1500	1500	0
3/18/2025 11:50	46102	MACI_T1	0	2	2	0	0.1	0.1	0.64	0.64	0	0	0	0	0	0
3/18/2025 11:51	64902	MILL_T2	0	0	0	0	0	0	0.19	0.2	0	0	0	0	0	0
3/18/2025 11:51	60301	TWVA_T2	0	0	0	0	0	0	-1.74	-1.8	2	2	0	1800	1800	0
3/18/2025 11:55	61103	BERK_T5	15	36	21	0.31	0.24	-0.07	0	0	0	0	0	0	0	0
3/18/2025 11:55	61102	BERK_T5	4	7	3	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
3/18/2025 11:55	61101	BERK_T5	4	9	5	0.95	0.5	-0.45	0	0	0	0	0	0	0	0
3/18/2025 11:56	59202	THOM_T1	17	69	52	0.43	0.32	-0.11	0	0	0	0	0	0	0	0
3/18/2025 11:56	61102	BERK_T5	4	7	3	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
3/18/2025 11:56	61101	BERK_T5	4	9	5	0.95	0.5	-0.45	0	0	0	0	0	0	0	0
3/18/2025 11:56	61103	BERK_T5	15	36	21	0.31	0.24	-0.07	0	0	0	0	0	0	0	0
3/18/2025 11:56	59201	THOM_T1	1	10	9	1.1	0.31	-0.79	0	0	0	0	0	0	0	0
3/18/2025 11:57	16302	ALPA_T2	4	5	1	0.38	0.36	-0.02	1.18	1.42	0	0	0	0	0	0
3/18/2025 11:57	61103	BERK_T5	15	36	21	0.31	0.24	-0.07	0	0	0	0	0	0	0	0
3/18/2025 11:57	61102	BERK_T5	4	7	3	0.33	0.29	-0.04	0.29	0.35	1	1	0	300	300	0
3/18/2025 11:57	44301	BEAV_T2	4	6	2	0.28	0.45	0.17	-0.01	-0.13	2	2	0	1500	1500	0
3/18/2025 11:57	61101	BERK_T5	4	9	5	0.95	0.5	-0.45	0	0	0	0	0	0	0	0
3/18/2025 11:57	44302	BEAV_T2	5	7	2	0.94	0.71	-0.23	0	0	0	0	0	0	0	0
3/18/2025 11:58	61103	BERK_T5	15	36	21	0.31	0.24	-0.07	0	0	0	0	0	0	0	0
3/18/2025 11:58	61101	BERK_T5	4	9	5	0.95	0.5	-0.45	0	0	0	0	0	0	0	0
3/18/2025 11:58	61102	BERK_T5	4	7	3	0.33	0.29	-0.04	0.29	0.35	1	1	0	300	300	0
3/18/2025 11:58	67503	WEWI_T2	3	7	4	0.45	0.34	-0.11	0	0	0	0	0	0	0	0
3/18/2025 11:58	67502	WEWI_T2	14	29	15	0.56	0.51	-0.05	0	0	0	0	0	0	0	0
3/18/2025 11:58	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
3/18/2025 11:58	59201	THOM_T1	1	10	9	1.1	0.31	-0.79	0	0	0	0	0	0	0	0
3/18/2025 11:58	16302	ALPA_T2	4	5	1	0.38	0.36	-0.02	0.59	0.71	0	0	0	0	0	0
3/18/2025 11:58	59202	THOM_T1	17	69	52	0.43	0.32	-0.11	0	0	0	0	0	0	0	0
3/18/2025 11:58	15702	TANN_T2	2	7	5	0.2	0.37	0.17	-0.83	-0.71	0	0	0	0	0	0
3/18/2025 11:59	43505	WWIL_T1	1	1	0	2.1	2.1	0	0	0	0	0	0	0	0	0
3/18/2025 11:59	45702	LIND_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 11:59	45701	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 11:59	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
3/18/2025 11:59	43506	WWIL_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
3/18/2025 11:59	43504	WWIL_T1	0	0	0	0	0	0	-3.57	-1.6	0	0	0	0	0	0
3/18/2025 11:59	15702	TANN_T2	2	7	5	0.2	0.37	0.17	-0.41	-0.36	0	0	0	0	0	0
3/18/2025 12:00	16302	ALPA_T2	2	5	3	0.3	0.42	0.12	1.18	1.42	0	0	0	0	0	0
3/18/2025 12:01	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.34	0.11	2	2	0	1800	1800	0
3/18/2025 12:01	61303	EARL_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 12:01	64202	KINZ_T1	0	5	5	0	0.5	0.5	0	0	0	0	0	0	0	0
3/18/2025 12:01	61302	EARL_T1	1	4	3	1.7	0.58	-1.12	0.56	0.2	2	2	0	1800	1800	0
3/18/2025 12:01	45701	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 12:01	45702	LIND_T2	0	3	3	0	0.63	0.63	0	0	0	0	0	0	0	0
3/18/2025 12:01	61304	EARL_T1	2	4	2	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
3/18/2025 12:01	64204	KINZ_T1	2	22	20	0.9	0.51	-0.39	0	0	0	0	0	0	0	0
3/18/2025 12:02	51304	WIND_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 12:02	51306	WIND_T2	4	5	1	0.25	0.3	0.05	0.15	0.17	0	0	0	0	0	0
3/18/2025 12:02	51302	WIND_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 12:04	45801	HEGI_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/18/2025 12:05	64202	KINZ_T1	0	5	5	0	0.5	0.5	0	0	0	0	0	0	0	0
3/18/2025 12:05	64203	KINZ_T1	0	1	1	0	0.2	0.2	0.34	0.11	2	2	0	1800	1800	0
3/18/2025 12:05	64204	KINZ_T1	2	22	20	0.9	0.51	-0.39	0	0	0	0	0	0	0	0
3/18/2025 12:06	24204	PROV_T3	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
3/18/2025 12:06	24201	PROV_T3	5	6	1	3.34	2.75	-0.59	-1.52	-1.51	1	1	0	1200	1200	0
3/18/2025 12:08	45702	LIND_T2	0	3	3	0	0.63	0.63	0	0	0	0	0	0	0	0
3/18/2025 12:08	45801	HEGI_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/18/2025 12:09	66503	SMAN_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
3/18/2025 12:09	66504	SMAN_T2	4	3	-1	0.63	1.03	0.4	0	0	0	0	0	0	0	0
3/18/2025 12:09	67201	TEHI_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/18/2025 12:09	66505	SMAN_T2	2	4	2	0.15	0.43	0.28	0	0	0	0	0	0	0	0
3/18/2025 12:09	66501	SMAN_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
3/18/2025 12:09	66502	SMAN_T2	13	7	-6	0.29	0.3	0.01	0	0	0	0	0	0	0	0
3/18/2025 12:09	13103	NHAM_T2	0	0	0	0	0	0	-1.73	-1.73	1	1	0	600	600	0
3/18/2025 12:09	13105	NHAM_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 12:09	67203	TEHI_T1	0	0	0	0	0	0	2.25	2.31	3	3	0	2400	2400	0
3/18/2025 12:09	59402	RFLD_T2	1	9	8	0.2	0.49	0.29	0	0	0	0	0	0	0	0
3/18/2025 12:10	66505	SMAN_T2	2	4	2	0.15	0.43	0.28	0	0	0	0	0	0	0	0
3/18/2025 12:10	66502	SMAN_T2	13	7	-6	0.29	0.3	0.01	0.26	0.31	0	0	0	0	0	0
3/18/2025 12:10	66501	SMAN_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
3/18/2025 12:10	60201	ATGL_T2	1	7	6	0.3	0.3	0	0.03	-0.04	0	0	0	0	0	0
3/18/2025 12:10	66504	SMAN_T2	4	3	-1	0.63	1.03	0.4	-0.55	-0.59	0	0	0	0	0	0
3/18/2025 12:10	66503	SMAN_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
3/18/2025 12:11	66504	SMAN_T2	4	3	-1	0.63	1.03	0.4	0	0	0	0	0	0	0	0
3/18/2025 12:11	44302	BEAV_T2	4	7	3	0.98	0.69	-0.29	0.56	0.54	0	0	0	0	0	0
3/18/2025 12:11	66503	SMAN_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
3/18/2025 12:11	44301	BEAV_T2	5	4	-1	0.62	0.23	-0.39	0	0	0	0	0	0	0	0
3/18/2025 12:11	66501	SMAN_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
3/18/2025 12:11	66502	SMAN_T2	13	7	-6	0.29	0.3	0.01	0	0	0	0	0	0	0	0
3/18/2025 12:11	66505	SMAN_T2	2	4	2	0.15	0.43	0.28	0	0	0	0	0	0	0	0
3/18/2025 12:12	66502	SMAN_T2	13	7	-6	0.29	0.3	0.01	0.26	0.31	0	0	0	0	0	0
3/18/2025 12:12	66503	SMAN_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
3/18/2025 12:12	66501	SMAN_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
3/18/2025 12:12	66504	SMAN_T2	4	3	-1	0.63	1.03	0.4	-0.55	-0.59	0	0	0	0	0	0
3/18/2025 12:12	44302	BEAV_T2	4	7	3	0.98	0.69	-0.29	0.28	0.27	0	0	0	0	0	0
3/18/2025 12:12	44301	BEAV_T2	5	4	-1	0.62	0.23	-0.39	0	0	0	0	0	0	0	0
3/18/2025 12:12	66505	SMAN_T2	2	4	2	0.15	0.43	0.28	0	0	0	0	0	0	0	0
3/18/2025 12:13	66501	SMAN_T2	1	2	1	0.2	0.45	0.25	0	0	0	0	0	0	0	0
3/18/2025 12:13	66504	SMAN_T2	4	3	-1	0.63	1.03	0.4	-0.55	-0.59	0	0	0	0	0	0
3/18/2025 12:13	11904	ETEX_T2	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/18/2025 12:13	11901	ETEX_T2	5	4	-1	0.52	0.6	0.08	0	0	0	0	0	0	0	0
3/18/2025 12:13	66502	SMAN_T2	13	7	-6	0.29	0.3	0.01	0	0	0	0	0	0	0	0
3/18/2025 12:13	66503	SMAN_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
3/18/2025 12:13	60201	ATGL_T2	1	7	6	0.3	0.3	0	0.03	-0.04	0	0	0	0	0	0
3/18/2025 12:13	66505	SMAN_T2	2	4	2	0.15	0.43	0.28	0	0	0	0	0	0	0	0
3/18/2025 12:14	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 12:14	51302	WIND_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 12:14	11903	ETEX_T1	1	1	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 12:14	61302	EARL_T1	1	4	3	1.7	0.58	-1.12	0.2	0.32	2	2	0	1800	1800	0
3/18/2025 12:14	61304	EARL_T1	2	4	2	0.55	0.4	-0.15	-2.34	-2.64	3	3	0	1800	1800	0
3/18/2025 12:14	61303	EARL_T1	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 12:14	11904	ETEX_T2	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/18/2025 12:14	51306	WIND_T2	4	5	1	0.25	0.3	0.05	0.17	0.12	0	0	0	0	0	0
3/18/2025 12:14	51304	WIND_T2	2	2	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 12:14	61301	EARL_T1	0	0	0	0	0	0	-0.43	0.28	1	0	-1	900	0	-900
3/18/2025 12:14	11901	ETEX_T2	5	4	-1	0.52	0.6	0.08	0.29	0.25	0	0	0	0	0	0
3/18/2025 12:14	52204	DEVO_T2	1	1	0	2.1	2.3	0.2	0	0	0	0	0	0	0	0
3/18/2025 12:15	44301	BEAV_T2	4	0	-4	0.48	0	-0.48	0	0	0	0	0	0	0	0
3/18/2025 12:15	61302	EARL_T1	2	3	1	1	0.67	-0.33	0	0	0	0	0	0	0	0
3/18/2025 12:15	66505	SMAN_T2	0	4	4	0	0.78	0.78	0	0	0	0	0	0	0	0
3/18/2025 12:15	51306	WIND_T2	4	5	1	0.25	0.36	0.11	0.17	0.12	0	0	0	0	0	0
3/18/2025 12:15	51304	WIND_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/18/2025 12:15	61304	EARL_T1	2	4	2	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
3/18/2025 12:15	51302	WIND_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/18/2025 12:15	66503	SMAN_T2	1	2	1	0.3	0.7	0.4	0	0	0	0	0	0	0	0
3/18/2025 12:15	44302	BEAV_T2	7	4	-3	0.69	0.93	0.24	0	0	0	0	0	0	0	0
3/18/2025 12:15	61303	EARL_T1	1	1	0	0.1	0.1	0	1.04	1.03	0	0	0	0	0	0
3/18/2025 12:15	11901	ETEX_T2	4	1	-3	0.6	0.2	-0.4	0	0	0	0	0	0	0	0
3/18/2025 12:15	11904	ETEX_T2	3	0	-3	0.2	0	-0.2	0.21	0.19	0	0	0	0	0	0
3/18/2025 12:15	66502	SMAN_T2	2	12	10	0.55	0.27	-0.28	0	0	0	0	0	0	0	0
3/18/2025 12:15	66504	SMAN_T2	3	4	1	0.6	0.83	0.23	0	0	0	0	0	0	0	0
3/18/2025 12:15	66501	SMAN_T2	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
3/18/2025 12:16	51302	WIND_T2	1	2	1	0.1	0.25	0.15	0	0	0	0	0	0	0	0
3/18/2025 12:16	40901	JESH_T1	1	1	0	0.7	0.3	-0.4	0.26	0.31	0	0	0	0	0	0
3/18/2025 12:16	11901	ETEX_T2	4	1	-3	0.6	0.2	-0.4	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/18/2025 12:16	51304	WIND_T2	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/18/2025 12:16	11904	ETEX_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 12:16	40902	JESH_T1	2	2	0	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/18/2025 12:16	51306	WIND_T2	4	5	1	0.25	0.36	0.11	0	0	0	0	0	0	0	0
3/18/2025 12:16	20603	GRWO_T2	18	25	7	0.35	0.32	-0.03	0.41	0.44	0	0	0	0	0	0
3/18/2025 12:17	63803	HEMP_T1	8	11	3	0.31	0.44	0.13	0	0	0	0	0	0	0	0
3/18/2025 12:17	12202	FOGE_T2	75	50	-25	0.39	0.47	0.08	-0.72	-0.7	1	1	0	600	600	0
3/18/2025 12:17	63802	HEMP_T1	2	6	4	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
3/18/2025 12:17	63801	HEMP_T1	8	13	5	0.33	0.45	0.12	0.1	0.06	0	0	0	0	0	0
3/18/2025 12:17	63804	HEMP_T1	2	3	1	3.2	2.1	-1.1	0	0	0	0	0	0	0	0
3/18/2025 12:17	11904	ETEX_T2	3	0	-3	0.2	0	-0.2	0.41	0.37	0	0	0	0	0	0
3/18/2025 12:17	11901	ETEX_T2	4	1	-3	0.6	0.2	-0.4	0.29	0.25	0	0	0	0	0	0
3/18/2025 12:19	43202	MVIL_T2	56	66	10	0.37	0.61	0.24	0	0	0	0	0	0	0	0
3/18/2025 12:19	20603	GRWO_T2	18	25	7	0.35	0.32	-0.03	0.41	0.44	0	0	0	0	0	0
3/18/2025 12:19	63802	HEMP_T1	2	6	4	0.45	0.3	-0.15	0	0	0	0	0	0	0	0
3/18/2025 12:19	63804	HEMP_T1	2	3	1	3.2	2.1	-1.1	0	0	0	0	0	0	0	0
3/18/2025 12:19	63803	HEMP_T1	8	11	3	0.31	0.44	0.13	0	0	0	0	0	0	0	0
3/18/2025 12:19	43201	MVIL_T2	2	2	0	0.5	0.65	0.15	-0.37	-0.37	0	0	0	0	0	0
3/18/2025 12:19	63801	HEMP_T1	8	13	5	0.33	0.45	0.12	0	0	0	0	0	0	0	0
3/18/2025 12:20	64204	KINZ_T1	16	23	7	0.46	0.54	0.08	0	0	0	0	0	0	0	0
3/18/2025 12:20	10103	ALLE_T3	1	1	0	1.5	0	-1.5	0	0	0	0	0	0	0	0
3/18/2025 12:20	64202	KINZ_T1	3	5	2	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/18/2025 12:20	10109	ALLE_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 12:20	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 12:20	64203	KINZ_T1	0	1	1	0	0.4	0.4	0.11	0.17	2	2	0	1800	1800	0
3/18/2025 12:21	27201	YATE_T1	10	10	0	5.8	5.59	-0.21	-2.18	-1.97	0	0	0	0	0	0
3/18/2025 12:21	27205	YATE_T1	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/18/2025 12:23	58402	MORO_T1	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
3/18/2025 12:23	58401	MORO_T1	6	8	2	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
3/18/2025 12:23	14801	TREI_T2	100	119	19	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
3/18/2025 12:23	14802	TREI_T2	29	33	4	0.34	0.43	0.09	0.34	0.33	0	0	0	0	0	0
3/18/2025 12:24	52403	GRPA_T2	85	132	47	0.56	0.61	0.05	-0.63	-0.62	0	0	0	0	0	0
3/18/2025 12:24	14801	TREI_T2	100	119	19	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
3/18/2025 12:24	14802	TREI_T2	29	33	4	0.34	0.43	0.09	0.69	0.66	0	0	0	0	0	0
3/18/2025 12:24	52401	GRPA_T2	3	8	5	0.3	0.39	0.09	0	0	0	0	0	0	0	0
3/18/2025 12:24	44202	POIN_T2	0	0	0	0	0	0	-0.58	-0.46	1	1	0	1200	1200	0
3/18/2025 12:24	52402	GRPA_T2	60	107	47	0.37	0.46	0.09	0	0	0	0	0	0	0	0
3/18/2025 12:24	44203	POIN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 12:25	40303	TAMA_T3	3	7	4	0.3	0.21	-0.09	0	0	0	0	0	0	0	0
3/18/2025 12:25	61101	BERK_T5	9	10	1	0.46	0.51	0.05	-0.92	-0.82	0	0	0	0	0	0
3/18/2025 12:25	61102	BERK_T5	6	8	2	0.3	0.36	0.06	0	0	0	0	0	0	0	0
3/18/2025 12:25	14802	TREI_T2	29	33	4	0.34	0.43	0.09	0	0	0	0	0	0	0	0
3/18/2025 12:25	14801	TREI_T2	100	119	19	0.4	0.37	-0.03	0.36	0.34	0	0	0	0	0	0
3/18/2025 12:25	59202	THOM_T1	62	135	73	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
3/18/2025 12:25	59201	THOM_T1	10	12	2	0.31	0.33	0.02	0	0	0	0	0	0	0	0
3/18/2025 12:25	61103	BERK_T5	36	53	17	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
3/18/2025 12:25	40301	TAMA_T3	10	11	1	0.61	0.58	-0.03	1.62	1.62	2	2	0	1800	1800	0
3/18/2025 12:25	40302	TAMA_T3	27	30	3	0.45	0.5	0.05	0	0	0	0	0	0	0	0
3/18/2025 12:26	40302	TAMA_T3	27	30	3	0.45	0.5	0.05	0	0	0	0	0	0	0	0
3/18/2025 12:26	67902	WNHO_T2	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
3/18/2025 12:26	40301	TAMA_T3	10	11	1	0.61	0.58	-0.03	0	0	0	0	0	0	0	0
3/18/2025 12:26	61101	BERK_T5	9	10	1	0.46	0.51	0.05	-1.85	-1.64	0	0	0	0	0	0
3/18/2025 12:26	14801	TREI_T2	100	119	19	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
3/18/2025 12:26	61102	BERK_T5	6	8	2	0.3	0.36	0.06	0	0	0	0	0	0	0	0
3/18/2025 12:26	40303	TAMA_T3	3	7	4	0.3	0.21	-0.09	2.44	2.3	0	0	0	0	0	0
3/18/2025 12:26	52403	GRPA_T2	85	132	47	0.56	0.61	0.05	0	0	0	0	0	0	0	0
3/18/2025 12:26	52402	GRPA_T2	60	107	47	0.37	0.46	0.09	0	0	0	0	0	0	0	0
3/18/2025 12:26	52401	GRPA_T2	3	8	5	0.3	0.39	0.09	-0.81	-0.82	0	0	0	0	0	0
3/18/2025 12:26	14802	TREI_T2	29	33	4	0.34	0.43	0.09	0.34	0.33	0	0	0	0	0	0
3/18/2025 12:26	61103	BERK_T5	36	53	17	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
3/18/2025 12:26	67901	WNHO_T2	2	2	0	0.3	0.45	0.15	0.24	0.37	1	1	0	900	900	0
3/18/2025 12:27	67502	WEWI_T2	29	188	159	0.51	0.32	-0.19	0	0	0	0	0	0	0	0
3/18/2025 12:27	67503	WEWI_T2	7	11	4	0.34	0.41	0.07	0	0	0	0	0	0	0	0
3/18/2025 12:27	20402	ASHF_T2	2	4	2	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
3/18/2025 12:27	20403	ASHF_T2	49	93	44	0.56	0.46	-0.1	-0.04	-0.01	0	0	0	0	0	0
3/18/2025 12:27	20401	ASHF_T2	13	14	1	0.43	0.49	0.06	0	0	0	0	0	0	0	0
3/18/2025 12:28	61103	BERK_T5	36	53	17	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
3/18/2025 12:28	61101	BERK_T5	9	10	1	0.46	0.51	0.05	0	0	0	0	0	0	0	0
3/18/2025 12:28	61102	BERK_T5	6	8	2	0.3	0.36	0.06	0	0	0	0	0	0	0	0
3/18/2025 12:29	20401	ASHF_T2	13	14	1	0.43	0.49	0.06	0	0	0	0	0	0	0	0
3/18/2025 12:29	20402	ASHF_T2	2	4	2	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
3/18/2025 12:29	20403	ASHF_T2	49	93	44	0.56	0.46	-0.1	-0.04	-0.01	0	0	0	0	0	0
3/18/2025 12:30	61103	BERK_T5	53	27	-26	0.22	0.24	0.02	0	0	0	0	0	0	0	0
3/18/2025 12:30	20401	ASHF_T2	13	15	2	0.44	0.5	0.06	0.22	0.3	0	0	0	0	0	0
3/18/2025 12:30	61102	BERK_T5	7	6	-1	0.39	0.32	-0.07	0.23	0.29	1	1	0	300	300	0
3/18/2025 12:30	20402	ASHF_T2	3	5	2	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
3/18/2025 12:30	20403	ASHF_T2	77	163	86	0.49	0.41	-0.08	0	0	0	0	0	0	0	0
3/18/2025 12:30	61101	BERK_T5	10	11	1	0.51	0.51	0	0	0	0	0	0	0	0	0
3/18/2025 12:31	11402	FARM_T1	8	9	1	0.45	0.53	0.08	0	0	0	0	0	0	0	0
3/18/2025 12:31	11401	FARM_T1	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/18/2025 12:31	11405	FARM_T1	11	17	6	0.7	0.56	-0.14	0	0	0	0	0	0	0	0
3/18/2025 12:31	42401	GIMA_T1	8	12	4	0.24	0.26	0.02	0	0	0	0	0	0	0	0
3/18/2025 12:31	11404	FARM_T1	2	3	1	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
3/18/2025 12:31	45802	HEGI_T2	36	55	19	0.38	0.15	-0.23	1.15	1.1	0	0	0	0	0	0
3/18/2025 12:31	11403	FARM_T1	1	1	0	0.1	0.1	0	-0.12	-0.12	1	1	0	600	600	0
3/18/2025 12:31	11407	FARM_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/18/2025 12:32	54503	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 12:32	54505	ENOL_T2	4	4	0	0.8	0.88	0.08	0	0	0	0	0	0	0	0
3/18/2025 12:32	54504	ENOL_T2	2	2	0	1	1.05	0.05	0	0	0	0	0	0	0	0
3/18/2025 12:32	54502	ENOL_T2	4	6	2	0.55	0.48	-0.07	0	0	0	0	0	0	0	0
3/18/2025 12:32	45802	HEGI_T2	36	55	19	0.38	0.15	-0.23	1.15	1.1	0	0	0	0	0	0
3/18/2025 12:32	54501	ENOL_T2	1	6	5	0.5	0.22	-0.28	0.08	0.08	0	0	0	0	0	0
3/18/2025 12:33	54503	ENOL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 12:33	11407	FARM_T1	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/18/2025 12:33	11403	FARM_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/18/2025 12:33	54505	ENOL_T2	4	4	0	0.8	0.88	0.08	0	0	0	0	0	0	0	0
3/18/2025 12:33	11405	FARM_T1	11	17	6	0.7	0.56	-0.14	-1.25	-1.23	1	1	0	1200	1200	0
3/18/2025 12:33	11401	FARM_T1	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/18/2025 12:33	11402	FARM_T1	8	9	1	0.45	0.53	0.08	0	0	0	0	0	0	0	0
3/18/2025 12:33	54504	ENOL_T2	2	2	0	1	1.05	0.05	-1.2	-1.24	1	1	0	600	600	0
3/18/2025 12:33	54502	ENOL_T2	4	6	2	0.55	0.48	-0.07	0	0	0	0	0	0	0	0
3/18/2025 12:33	54501	ENOL_T2	1	6	5	0.5	0.22	-0.28	0	0	0	0	0	0	0	0
3/18/2025 12:33	11404	FARM_T1	2	3	1	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
3/18/2025 12:34	54502	ENOL_T2	4	6	2	0.55	0.48	-0.07	0	0	0	0	0	0	0	0
3/18/2025 12:34	54505	ENOL_T2	4	4	0	0.8	0.88	0.08	0	0	0	0	0	0	0	0
3/18/2025 12:34	54501	ENOL_T2	1	6	5	0.5	0.22	-0.28	0.08	0.08	0	0	0	0	0	0
3/18/2025 12:34	54504	ENOL_T2	2	2	0	1	1.05	0.05	0	0	0	0	0	0	0	0
3/18/2025 12:34	54503	ENOL_T2	0	1	1	0	0.2	0.2	-0.46	-0.43	1	1	0	600	600	0
3/18/2025 12:35	47401	PENS_T1	7	6	-1	1.06	0.98	-0.08	0	0	0	0	0	0	0	0
3/18/2025 12:35	47403	PENS_T1	2	2	0	1.15	0.95	-0.2	0	0	0	0	0	0	0	0
3/18/2025 12:35	45802	HEGI_T2	36	55	19	0.38	0.15	-0.23	0	0	0	0	0	0	0	0
3/18/2025 12:35	47402	PENS_T1	3	1	-2	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
3/18/2025 12:36	48302	ORWI_T2	10	10	0	2.26	2.06	-0.2	-0.08	-0.04	0	0	0	0	0	0
3/18/2025 12:36	47403	PENS_T1	2	2	0	1.15	0.95	-0.2	0	0	0	0	0	0	0	0
3/18/2025 12:36	64203	KINZ_T1	1	1	0	0.2	0.4	0.2	0.17	0.11	2	2	0	1800	1800	0
3/18/2025 12:36	48303	ORWI_T2	7	7	0	0.44	0.5	0.06	0	0	0	0	0	0	0	0
3/18/2025 12:36	64204	KINZ_T1	22	49	27	0.51	0.47	-0.04	0	0	0	0	0	0	0	0
3/18/2025 12:36	47402	PENS_T1	3	1	-2	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
3/18/2025 12:36	64202	KINZ_T1	5	4	-1	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
3/18/2025 12:36	44203	POIN_T2	1	1	0	0.2	0.1	-0.1	-0.5	-0.45	2	2	0	2100	2100	0
3/18/2025 12:36	47401	PENS_T1	7	6	-1	1.06	0.98	-0.08	2.66	2.68	0	0	0	0	0	0
3/18/2025 12:36	64101	REFR_T1	6	7	1	0.38	0.63	0.25	83.96	83.96	0	0	0	0	0	0
3/18/2025 12:37	41602	CLEV_T1	5	3	-2	0.6	0.6	0	0	0	0	0	0	0	0	0
3/18/2025 12:37	47401	PENS_T1	7	6	-1	1.06	0.98	-0.08	0.89	0.89	0	0	0	0	0	0
3/18/2025 12:37	48303	ORWI_T2	7	7	0	0.44	0.5	0.06	0.56	0.55	0	0	0	0	0	0
3/18/2025 12:37	47402	PENS_T1	3	1	-2	0.57	0.5	-0.07	0	0	0	0	0	0	0	0
3/18/2025 12:37	47403	PENS_T1	2	2	0	1.15	0.95	-0.2	0	0	0	0	0	0	0	0
3/18/2025 12:37	48302	ORWI_T2	10	10	0	2.26	2.06	-0.2	0	0	0	0	0	0	0	0
3/18/2025 12:37	64101	REFR_T1	6	7	1	0.38	0.63	0.25	0	0	0	0	0	0	0	0
3/18/2025 12:37	41601	CLEV_T1	2	1	-1	1	1.3	0.3	0	0	0	0	0	0	0	0
3/18/2025 12:38	48302	ORWI_T2	10	10	0	2.26	2.06	-0.2	-0.08	-0.04	0	0	0	0	0	0
3/18/2025 12:38	27205	YATE_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/18/2025 12:38	48303	ORWI_T2	7	7	0	0.44	0.5	0.06	0	0	0	0	0	0	0	0
3/18/2025 12:38	27201	YATE_T1	10	10	0	5.59	5.91	0.32	-1.97	-1.21	0	0	0	0	0	0
3/18/2025 12:38	64101	REFR_T1	6	7	1	0.38	0.63	0.25	83.96	83.96	0	0	0	0	0	0
3/18/2025 12:39	13303	ORVI_T1	1	4	3	0.1	0.18	0.08	0.96	0.9	0	0	0	0	0	0
3/18/2025 12:40	20403	ASHF_T2	77	163	86	0.49	0.41	-0.08	0	0	0	0	0	0	0	0
3/18/2025 12:40	20402	ASHF_T2	3	5	2	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
3/18/2025 12:40	20401	ASHF_T2	13	15	2	0.44	0.5	0.06	0.3	0.27	0	0	0	0	0	0
3/18/2025 12:41	67603	WARW_T1	7	6	-1	0.46	0.43	-0.03	0	0	0	0	0	0	0	0
3/18/2025 12:41	67605	WARW_T1	83	106	23	0.67	0.65	-0.02	-1.05	-1.1	0	0	0	0	0	0
3/18/2025 12:41	67604	WARW_T1	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0	0
3/18/2025 12:42	67601	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 12:43	20402	ASHF_T2	3	5	2	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
3/18/2025 12:43	20401	ASHF_T2	13	15	2	0.44	0.5	0.06	0	0	0	0	0	0	0	0
3/18/2025 12:43	20403	ASHF_T2	77	163	86	0.49	0.41	-0.08	-0.01	-0.04	0	0	0	0	0	0
3/18/2025 12:43	67604	WARW_T1	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0	0
3/18/2025 12:43	67605	WARW_T1	83	106	23	0.67	0.65	-0.02	-2.1	-2.2	0	0	0	0	0	0
3/18/2025 12:43	67603	WARW_T1	7	6	-1	0.46	0.43	-0.03	0	0	0	0	0	0	0	0
3/18/2025 12:44	67605	WARW_T1	83	106	23	0.67	0.65	-0.02	0	0	0	0	0	0	0	0
3/18/2025 12:44	16103	BING_T2	2	2	0	1.1	1.1	0	0	0	0	0	0	0	0	0
3/18/2025 12:44	16102	BING_T2	8	8	0	0.91	1.05	0.14	0	0	0	0	0	0	0	0
3/18/2025 12:44	67603	WARW_T1	7	6	-1	0.46	0.43	-0.03	0.06	0.16	0	0	0	0	0	0
3/18/2025 12:44	16101	BING_T2	2	1	-1	0.75	1.5	0.75	0.27	0.25	0	0	0	0	0	0
3/18/2025 12:44	67604	WARW_T1	4	4	0	0.33	0.33	0	0	0	0	0	0	0	0	0
3/18/2025 12:44	67601	WARW_T2	0	0	0	0	0	0	-0.51	-0.44	0	0	0	0	0	0
3/18/2025 12:45	63803	HEMP_T1	9	13	4	0.47	0.41	-0.06	0.05	0.05	0	0	0	0	0	0
3/18/2025 12:45	67604	WARW_T1	3	3	0	0.37	0.4	0.03	0	0	0	0	0	0	0	0
3/18/2025 12:45	20401	ASHF_T2	14	18	4	0.49	0.48	-0.01	0	0	0	0	0	0	0	0
3/18/2025 12:45	63801	HEMP_T1	11	12	1	0.41	0.45	0.04	0	0	0	0	0	0	0	0
3/18/2025 12:45	63804	HEMP_T1	3	3	0	2.1	2.13	0.03	0	0	0	0	0	0	0	0
3/18/2025 12:45	20403	ASHF_T2	82	168	86	0.5	0.41	-0.09	-0.01	-0.04	0	0	0	0	0	0
3/18/2025 12:45	67605	WARW_T1	99	111	12	0.67	0.57	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/18/2025 12:45	67603	WARW_T1	5	6	1	0.46	0.53	0.07	0.03	0.08	0	0	0	0	0	0
3/18/2025 12:45	63802	HEMP_T1	6	7	1	0.27	0.26	-0.01	0.19	0.14	0	0	0	0	0	0
3/18/2025 12:45	20402	ASHF_T2	3	5	2	0.17	0.32	0.15	0	0	0	0	0	0	0	0
3/18/2025 12:46	63802	HEMP_T1	6	7	1	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
3/18/2025 12:46	63501	HEID_TBK1-2	39	4	-35	0.25	0.55	0.3	-0.01	0.19	1	1	0	900	900	0
3/18/2025 12:46	63801	HEMP_T1	11	12	1	0.41	0.45	0.04	0	0	0	0	0	0	0	0
3/18/2025 12:46	63804	HEMP_T1	3	3	0	2.1	2.13	0.03	0	0	0	0	0	0	0	0
3/18/2025 12:46	63803	HEMP_T1	9	13	4	0.47	0.41	-0.06	0.05	0.05	0	0	0	0	0	0
3/18/2025 12:47	63803	HEMP_T1	9	13	4	0.47	0.41	-0.06	0.05	0.05	0	0	0	0	0	0
3/18/2025 12:47	54503	ENOL_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 12:47	45802	HEGI_T2	53	50	-3	0.45	2.04	1.59	1.1	1.16	0	0	0	0	0	0
3/18/2025 12:47	54502	ENOL_T2	4	6	2	0.55	0.48	-0.07	0	0	0	0	0	0	0	0
3/18/2025 12:47	63801	HEMP_T1	11	12	1	0.41	0.45	0.04	0	0	0	0	0	0	0	0
3/18/2025 12:47	54501	ENOL_T2	5	3	-2	0.18	0.33	0.15	0	0	0	0	0	0	0	0
3/18/2025 12:47	46801	HEPB_T2	24	29	5	0.33	0.3	-0.03	0.54	0.53	0	0	0	0	0	0
3/18/2025 12:47	63804	HEMP_T1	3	3	0	2.1	2.13	0.03	0	0	0	0	0	0	0	0
3/18/2025 12:47	46803	HEPB_T2	13	14	1	0.37	0.35	-0.02	0.46	0.46	0	0	0	0	0	0
3/18/2025 12:47	63802	HEMP_T1	6	7	1	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
3/18/2025 12:47	63501	HEID_TBK1-2	39	4	-35	0.25	0.55	0.3	-0.01	0.19	1	1	0	900	900	0
3/18/2025 12:47	54504	ENOL_T2	2	2	0	0.7	1.05	0.35	0	0	0	0	0	0	0	0
3/18/2025 12:47	54505	ENOL_T2	4	4	0	0.83	0.95	0.12	-1.34	-1.37	1	1	0	600	600	0
3/18/2025 12:49	63804	HEMP_T1	3	3	0	2.1	2.13	0.03	0	0	0	0	0	0	0	0
3/18/2025 12:49	63803	HEMP_T1	9	13	4	0.47	0.41	-0.06	0.05	0.05	0	0	0	0	0	0
3/18/2025 12:49	63801	HEMP_T1	11	12	1	0.41	0.45	0.04	0	0	0	0	0	0	0	0
3/18/2025 12:49	63802	HEMP_T1	6	7	1	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
3/18/2025 12:49	43402	BENT_T1	74	8	-66	0.31	0.65	0.34	-0.8	-0.81	1	1	0	900	900	0
3/18/2025 12:50	46801	HEPB_T2	24	29	5	0.33	0.3	-0.03	0.54	0.53	0	0	0	0	0	0
3/18/2025 12:50	46803	HEPB_T2	13	14	1	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
3/18/2025 12:50	63804	HEMP_T1	3	3	0	2.1	2.13	0.03	0	0	0	0	0	0	0	0
3/18/2025 12:50	63801	HEMP_T1	11	12	1	0.41	0.45	0.04	0	0	0	0	0	0	0	0
3/18/2025 12:50	43402	BENT_T1	74	8	-66	0.31	0.65	0.34	-0.8	-0.81	1	1	0	900	900	0
3/18/2025 12:50	63803	HEMP_T1	9	13	4	0.47	0.41	-0.06	0	0	0	0	0	0	0	0
3/18/2025 12:50	63802	HEMP_T1	6	7	1	0.27	0.26	-0.01	0.38	0.28	0	0	0	0	0	0
3/18/2025 12:52	42903	MIDD_T2	0	0	0	0	0	0	1.54	1.48	0	0	0	0	0	0
3/18/2025 12:52	42902	MIDD_T2	4	2	-2	0.78	0.8	0.02	0	0	0	0	0	0	0	0
3/18/2025 12:53	67603	WARW_T1	5	6	1	0.46	0.53	0.07	0	0	0	0	0	0	0	0
3/18/2025 12:53	66903	SHIL_T2	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
3/18/2025 12:53	67604	WARW_T1	3	3	0	0.37	0.4	0.03	0	0	0	0	0	0	0	0
3/18/2025 12:53	66901	SHIL_T2	4	4	0	0.35	0.43	0.08	-0.52	-0.51	0	0	0	0	0	0
3/18/2025 12:53	67605	WARW_T1	99	111	12	0.67	0.57	-0.1	0	0	0	0	0	0	0	0
3/18/2025 12:53	66902	SHIL_T2	4	4	0	0.23	0.45	0.22	0	0	0	0	0	0	0	0
3/18/2025 12:53	28102	TWLA_T2	2	3	1	0.15	0.33	0.18	0.18	0.17	0	0	0	0	0	0
3/18/2025 12:55	66901	SHIL_T2	4	4	0	0.35	0.43	0.08	-0.52	-0.51	0	0	0	0	0	0
3/18/2025 12:55	66903	SHIL_T2	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
3/18/2025 12:55	42701	AUGU_T1	4	3	-1	0.35	0.63	0.28	0	0.63	2	2	0	1800	1800	0
3/18/2025 12:55	66902	SHIL_T2	4	4	0	0.23	0.45	0.22	0	0	0	0	0	0	0	0
3/18/2025 12:56	66903	SHIL_T2	2	3	1	0.15	0.27	0.12	0	0	0	0	0	0	0	0
3/18/2025 12:56	66902	SHIL_T2	4	4	0	0.23	0.45	0.22	0	0	0	0	0	0	0	0
3/18/2025 12:56	66901	SHIL_T2	4	4	0	0.35	0.43	0.08	-0.52	-0.51	0	0	0	0	0	0
3/18/2025 12:58	67603	WARW_T1	5	6	1	0.46	0.53	0.07	0	0	0	0	0	0	0	0
3/18/2025 12:58	67604	WARW_T1	3	3	0	0.37	0.4	0.03	0	0	0	0	0	0	0	0
3/18/2025 12:58	67605	WARW_T1	99	111	12	0.67	0.57	-0.1	-1.1	-1.07	0	0	0	0	0	0
3/18/2025 12:58	52202	DEVO_T2	0	2	2	0	0.1	0.1	-0.13	-0.06	0	0	0	0	0	0
3/18/2025 12:58	52204	DEVO_T2	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
3/18/2025 12:59	52202	DEVO_T2	0	2	2	0	0.1	0.1	-0.26	-0.12	0	0	0	0	0	0
3/18/2025 12:59	52401	GRPA_T2	5	6	1	0.28	0.42	0.14	0	0	0	0	0	0	0	0
3/18/2025 12:59	52204	DEVO_T2	1	1	0	2.2	2.2	0	0	0	0	0	0	0	0	0
3/18/2025 12:59	52402	GRPA_T2	70	42	-28	0.35	0.52	0.17	0	0	0	0	0	0	0	0
3/18/2025 12:59	52403	GRPA_T2	50	91	41	0.91	0.63	-0.28	-0.62	-0.59	0	0	0	0	0	0
3/18/2025 13:01	61702	ELIZ_T2	11	8	-3	0.78	0.81	0.03	-2.01	-2.07	2	2	0	1500	1500	0
3/18/2025 13:01	52202	DEVO_T2	2	0	-2	0.1	0	-0.1	-0.13	-0.06	0	0	0	0	0	0
3/18/2025 13:01	52204	DEVO_T2	1	0	-1	2.2	2.2	0	0	0	0	0	0	0	0	0
3/18/2025 13:01	61704	ELIZ_T2	8	6	-2	0.4	0.38	-0.02	0	0	0	0	0	0	0	0
3/18/2025 13:02	53903	HALI_T2	16	16	0	0.82	0.79	-0.03	-0.14	-0.13	0	0	0	0	0	0
3/18/2025 13:02	53902	HALI_T2	5	5	0	1.76	1.82	0.06	-0.22	-0.21	0	0	0	0	0	0
3/18/2025 13:02	53901	HALI_T2	9	10	1	0.46	0.45	-0.01	-1.08	-1.04	0	0	0	0	0	0
3/18/2025 13:04	53902	HALI_T2	5	5	0	1.76	1.82	0.06	0	0	0	0	0	0	0	0
3/18/2025 13:04	53903	HALI_T2	16	16	0	0.82	0.79	-0.03	-0.14	-0.13	0	0	0	0	0	0
3/18/2025 13:04	53901	HALI_T2	9	10	1	0.46	0.45	-0.01	-1.08	-1.04	0	0	0	0	0	0
3/18/2025 13:06	53901	HALI_T2	9	10	1	0.46	0.45	-0.01	0	0	0	0	0	0	0	0
3/18/2025 13:06	53902	HALI_T2	5	5	0	1.76	1.82	0.06	0	0	0	0	0	0	0	0
3/18/2025 13:06	13103	NHAM_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/18/2025 13:06	53903	HALI_T2	16	16	0	0.82	0.79	-0.03	-0.14	-0.13	0	0	0	0	0	0
3/18/2025 13:06	13105	NHAM_T2	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
3/18/2025 13:07	14602	SWHI_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/18/2025 13:07	53903	HALI_T2	16	16	0	0.82	0.79	-0.03	0	0	0	0	0	0	0	0
3/18/2025 13:07	14601	SWHI_T1	6	8	2	0.43	0.43	0	0	0	0	0	0	0	0	0
3/18/2025 13:07	53902	HALI_T2	5	5	0	1.76	1.82	0.06	0	0	0	0	0	0	0	0
3/18/2025 13:07	53901	HALI_T2	9	10	1	0.46	0.45	-0.01	-1.04	-1.05	0	0	0	0	0	0
3/18/2025 13:07	14603	SWHI_T1	7	8	1	0.51	0.58	0.07	0	0	0	0	0	0	0	0
3/18/2025 13:08	13902	SEID_T1	2	2	0	1.4	1.45	0.05	0	0	0	0	0	0	0	0
3/18/2025 13:08	43801	SWIL_T1	80	79	-1	0.28	0.28	0	0	0	0	0	0	0	0	0
3/18/2025 13:08	63802	HEMP_T1	7	7	0	0.26	0.33	0.07	0	0	0	0	0	0	0	0
3/18/2025 13:08	63804	HEMP_T1	3	3	0	2.07	2.2	0.13	0	0	0	0	0	0	0	0
3/18/2025 13:08	43802	SWIL_T1	14	17	3	0.4	0.4	0	-0.25	-0.26	1	1	0	600	600	0
3/18/2025 13:08	13905	SEID_T1	3	3	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/18/2025 13:08	13903	SEID_T1	1	0	-1	7.3	0	-7.3	0	0	0	0	0	0	0	0
3/18/2025 13:08	63801	HEMP_T1	9	16	7	0.49	0.43	-0.06	0	0	0	0	0	0	0	0
3/18/2025 13:08	63803	HEMP_T1	11	13	2	0.46	0.38	-0.08	0.14	0.06	0	0	0	0	0	0
3/18/2025 13:09	14601	SWHI_T1	6	8	2	0.43	0.43	0	0	0	0	0	0	0	0	0
3/18/2025 13:09	43801	SWIL_T1	80	79	-1	0.28	0.28	0	0	0	0	0	0	0	0	0
3/18/2025 13:09	14602	SWHI_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/18/2025 13:09	14603	SWHI_T1	7	8	1	0.51	0.58	0.07	0	0	0	0	0	0	0	0
3/18/2025 13:09	64802	MONE_T2	385	504	119	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
3/18/2025 13:09	64801	MONE_T2	175	170	-5	0.9	0.99	0.09	0.17	0.16	0	0	0	0	0	0
3/18/2025 13:09	43802	SWIL_T1	14	17	3	0.4	0.4	0	-0.25	-0.26	1	1	0	600	600	0
3/18/2025 13:10	52401	GRPA_T2	6	5	-1	0.42	0.4	-0.02	0	0	0	0	0	0	0	0
3/18/2025 13:10	52403	GRPA_T2	83	103	20	0.66	0.61	-0.05	-0.59	-0.6	0	0	0	0	0	0
3/18/2025 13:10	64802	MONE_T2	385	504	119	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
3/18/2025 13:10	52402	GRPA_T2	42	31	-11	0.48	0.64	0.16	0	0	0	0	0	0	0	0
3/18/2025 13:10	14601	SWHI_T1	6	8	2	0.43	0.43	0	0	0	0	0	0	0	0	0
3/18/2025 13:10	14602	SWHI_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/18/2025 13:10	14603	SWHI_T1	7	8	1	0.51	0.58	0.07	-0.36	-0.35	0	0	0	0	0	0
3/18/2025 13:10	64801	MONE_T2	175	170	-5	0.9	0.99	0.09	0	0	0	0	0	0	0	0
3/18/2025 13:11	14603	SWHI_T1	7	8	1	0.51	0.58	0.07	-0.36	-0.35	0	0	0	0	0	0
3/18/2025 13:11	64802	MONE_T2	385	504	119	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
3/18/2025 13:11	64801	MONE_T2	175	170	-5	0.9	0.99	0.09	0.17	0.16	0	0	0	0	0	0
3/18/2025 13:11	14601	SWHI_T1	6	8	2	0.43	0.43	0	0	0	0	0	0	0	0	0
3/18/2025 13:11	14602	SWHI_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/18/2025 13:12	14602	SWHI_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/18/2025 13:12	14601	SWHI_T1	6	8	2	0.43	0.43	0	0	0	0	0	0	0	0	0
3/18/2025 13:12	14604	SWHI_T1	0	0	0	0	0	0	0	0.03	1	1	0	900	900	0
3/18/2025 13:12	14603	SWHI_T1	7	8	1	0.51	0.58	0.07	0	0	0	0	0	0	0	0
3/18/2025 13:13	14601	SWHI_T1	6	8	2	0.43	0.43	0	-0.89	-0.92	0	0	0	0	0	0
3/18/2025 13:13	52403	GRPA_T2	83	103	20	0.66	0.61	-0.05	-0.59	-0.6	0	0	0	0	0	0
3/18/2025 13:13	14602	SWHI_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/18/2025 13:13	14603	SWHI_T1	7	8	1	0.51	0.58	0.07	-0.36	-0.35	0	0	0	0	0	0
3/18/2025 13:13	64801	MONE_T2	175	170	-5	0.9	0.99	0.09	0	0	0	0	0	0	0	0
3/18/2025 13:13	52401	GRPA_T2	6	5	-1	0.42	0.4	-0.02	0	0	0	0	0	0	0	0
3/18/2025 13:13	64802	MONE_T2	385	504	119	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
3/18/2025 13:13	52402	GRPA_T2	42	31	-11	0.48	0.64	0.16	0	0	0	0	0	0	0	0
3/18/2025 13:18	53901	HALI_T2	7	10	3	0.51	0.46	-0.05	-2.08	-2.1	0	0	0	0	0	0
3/18/2025 13:18	53903	HALI_T2	12	19	7	0.83	0.79	-0.04	0	0	0	0	0	0	0	0
3/18/2025 13:18	53902	HALI_T2	4	6	2	2.08	1.62	-0.46	0	0	0	0	0	0	0	0
3/18/2025 13:19	53902	HALI_T2	4	6	2	2.08	1.62	-0.46	0	0	0	0	0	0	0	0
3/18/2025 13:19	53901	HALI_T2	7	10	3	0.51	0.46	-0.05	-1.04	-1.05	0	0	0	0	0	0
3/18/2025 13:19	53903	HALI_T2	12	19	7	0.83	0.79	-0.04	0	0	0	0	0	0	0	0
3/18/2025 13:20	53903	HALI_T2	12	19	7	0.83	0.79	-0.04	0	0	0	0	0	0	0	0
3/18/2025 13:20	53902	HALI_T2	4	6	2	2.08	1.62	-0.46	0	0	0	0	0	0	0	0
3/18/2025 13:20	53901	HALI_T2	7	10	3	0.51	0.46	-0.05	-1.04	-1.05	0	0	0	0	0	0
3/18/2025 13:21	52501	PROG_T1	2	5	3	0.15	0.26	0.11	0	0	0	0	0	0	0	0
3/18/2025 13:22	42902	MIDD_T2	1	6	5	1.1	0.58	-0.52	-0.47	-0.59	0	0	0	0	0	0
3/18/2025 13:22	52501	PROG_T1	2	5	3	0.15	0.26	0.11	0.32	0.38	2	2	0	600	600	0
3/18/2025 13:23	52403	GRPA_T2	78	107	29	0.67	0.55	-0.12	0	0	0	0	0	0	0	0
3/18/2025 13:23	52401	GRPA_T2	4	4	0	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
3/18/2025 13:23	52501	PROG_T1	2	5	3	0.15	0.26	0.11	0.16	0.19	1	1	0	300	300	0
3/18/2025 13:23	52402	GRPA_T2	24	72	48	0.68	0.38	-0.3	0	0	0	0	0	0	0	0
3/18/2025 13:23	42902	MIDD_T2	1	6	5	1.1	0.58	-0.52	-0.24	-0.3	0	0	0	0	0	0
3/18/2025 13:24	52501	PROG_T1	2	5	3	0.15	0.26	0.11	0.16	0.19	1	1	0	300	300	0
3/18/2025 13:25	52403	GRPA_T2	78	107	29	0.67	0.55	-0.12	-0.6	-0.6	0	0	0	0	0	0
3/18/2025 13:25	52402	GRPA_T2	24	72	48	0.68	0.38	-0.3	0	0	0	0	0	0	0	0
3/18/2025 13:25	52401	GRPA_T2	4	4	0	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
3/18/2025 13:25	43801	SWIL_T1	77	77	0	0.28	0.29	0.01	0	0	0	0	0	0	0	0
3/18/2025 13:25	43802	SWIL_T1	12	17	5	0.43	0.39	-0.04	-0.26	-0.26	1	1	0	600	600	0
3/18/2025 13:26	52402	GRPA_T2	24	72	48	0.68	0.38	-0.3	0	0	0	0	0	0	0	0
3/18/2025 13:26	52401	GRPA_T2	4	4	0	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
3/18/2025 13:26	52403	GRPA_T2	78	107	29	0.67	0.55	-0.12	-0.6	-0.6	0	0	0	0	0	0
3/18/2025 13:28	52202	DEVO_T2	0	0	0	0	0	0	-0.11	-0.09	0	0	0	0	0	0
3/18/2025 13:28	52204	DEVO_T2	1	2	1	2.2	1.1	-1.1	0	0	0	0	0	0	0	0
3/18/2025 13:29	67604	WARW_T1	3	3	0	0.4	0.43	0.03	0.22	0.18	0	0	0	0	0	0
3/18/2025 13:29	67605	WARW_T1	109	107	-2	0.55	0.65	0.1	-1.06	-1.08	0	0	0	0	0	0
3/18/2025 13:29	67603	WARW_T1	6	6	0	0.47	0.48	0.01	0	0	0	0	0	0	0	0
3/18/2025 13:30	67603	WARW_T1	5	5	0	0.52	0.54	0.02	0	0	0	0	0	0	0	0
3/18/2025 13:30	67605	WARW_T1	89	111	22	0.69	0.68	-0.01	0	0	0	0	0	0	0	0
3/18/2025 13:30	67604	WARW_T1	2	5	3	0.55	0.32	-0.23	0.22	0.18	0	0	0	0	0	0
3/18/2025 13:31	54503	ENOL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 13:31	54504	ENOL_T2	2	1	-1	0.6	1	0.4	0	0	0	0	0	0	0	0
3/18/2025 13:31	54501	ENOL_T2	3	5	2	0.27	0.32	0.05	0	0	0	0	0	0	0	0
3/18/2025 13:31	54505	ENOL_T2	3	4	1	0.9	0.88	-0.02	0	0	0	0	0	0	0	0
3/18/2025 13:31	54502	ENOL_T2	6	5	-1	0.4	0.56	0.16	0	0	0	0	0	0	0	0
3/18/2025 13:33	63602	LETO_T1	5	9	4	0.56	0.51	-0.05	-0.42	-0.45	0	0	0	0	0	0
3/18/2025 13:33	67603	WARW_T1	5	5	0	0.52	0.54	0.02	0	0	0	0	0	0	0	0
3/18/2025 13:33	47901	HRDG_T1	0	0	0	0	0	0	1.76	1.89	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/18/2025 13:33	63601	LETO_T1	3	3	0	0.13	0.17	0.04	0	0	0	0	0	0	0	0
3/18/2025 13:33	67604	WARW_T1	2	5	3	0.55	0.32	-0.23	0.22	0.18	0	0	0	0	0	0
3/18/2025 13:33	67605	WARW_T1	89	111	22	0.69	0.68	-0.01	0	0	0	0	0	0	0	0
3/18/2025 13:34	42902	MIDD_T2	5	6	1	0.52	0.62	0.1	-0.47	-0.59	0	0	0	0	0	0
3/18/2025 13:35	64701	LITI_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
3/18/2025 13:35	42902	MIDD_T2	5	6	1	0.52	0.62	0.1	0	0	0	0	0	0	0	0
3/18/2025 13:35	43201	MVIL_T2	1	2	1	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/18/2025 13:35	43202	MVIL_T2	63	101	38	0.47	0.73	0.26	-0.62	-0.65	0	0	0	0	0	0
3/18/2025 13:40	63601	LETO_T1	3	3	0	0.13	0.17	0.04	0	0	0	0	0	0	0	0
3/18/2025 13:40	63602	LETO_T1	5	9	4	0.56	0.51	-0.05	-0.45	-0.47	0	0	0	0	0	0
3/18/2025 13:40	46001	BERW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 13:40	46005	BERW_T1	3	2	-1	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
3/18/2025 13:41	48302	ORWI_T2	4	10	6	4.9	2.31	-2.59	-0.08	-0.08	0	0	0	0	0	0
3/18/2025 13:41	48303	ORWI_T2	3	5	2	0.8	0.56	-0.24	0	0	0	0	0	0	0	0
3/18/2025 13:42	20403	ASHF_T2	34	161	127	0.67	0.41	-0.26	0	0	0	0	0	0	0	0
3/18/2025 13:42	20402	ASHF_T2	3	5	2	0.17	0.4	0.23	0	0	0	0	0	0	0	0
3/18/2025 13:42	20401	ASHF_T2	11	14	3	0.35	0.48	0.13	0	0	0	0	0	0	0	0
3/18/2025 13:43	46001	BERW_T1	0	1	1	0	0.1	0.1	1.5	1.48	0	0	0	0	0	0
3/18/2025 13:43	46005	BERW_T1	3	2	-1	0.57	0.55	-0.02	0	0	0	0	0	0	0	0
3/18/2025 13:45	17803	GILB_T2	11	17	6	0.31	0.34	0.03	0	0	0	0	0	0	0	0
3/18/2025 13:45	17805	GILB_T2	5	7	2	0.62	0.6	-0.02	-0.05	-0.09	0	0	0	0	0	0
3/18/2025 13:45	17804	GILB_T2	8	8	0	0.73	0.71	-0.02	0	0	0	0	0	0	0	0
3/18/2025 13:45	46004	BERW_T2	4	4	0	0.6	0.6	0	-0.28	-0.26	0	0	0	0	0	0
3/18/2025 13:45	46002	BERW_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/18/2025 13:46	22101	EDEL_T2	1	1	0	0.3	0.4	0.1	0.29	0.28	1	1	0	1200	1200	0
3/18/2025 13:47	43402	BENT_T1	81	81	0	0.3	0.36	0.06	-0.8	-0.79	1	1	0	900	900	0
3/18/2025 13:48	17803	GILB_T2	11	17	6	0.31	0.34	0.03	0	0	0	0	0	0	0	0
3/18/2025 13:48	17805	GILB_T2	5	7	2	0.62	0.6	-0.02	0	0	0	0	0	0	0	0
3/18/2025 13:48	17804	GILB_T2	8	8	0	0.73	0.71	-0.02	0	0	0	0	0	0	0	0
3/18/2025 13:48	42902	MIDD_T2	6	8	2	0.53	0.66	0.13	-0.3	-0.32	0	0	0	0	0	0
3/18/2025 13:49	41205	KENM_T2	0	0	0	0	0	0	-0.09	-0.03	0	0	0	0	0	0
3/18/2025 13:49	41204	KENM_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/18/2025 13:49	41202	KENM_T2	1	2	1	0.3	0.3	0	0	0	0	0	0	0	0	0
3/18/2025 13:49	43201	MVIL_T2	2	1	-1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
3/18/2025 13:49	43202	MVIL_T2	73	100	27	0.66	0.82	0.16	-0.65	-0.63	0	0	0	0	0	0
3/18/2025 13:50	43202	MVIL_T2	73	100	27	0.66	0.82	0.16	-0.65	-0.63	0	0	0	0	0	0
3/18/2025 13:50	43201	MVIL_T2	2	1	-1	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
3/18/2025 13:50	41601	CLEV_T1	1	3	2	1	0.7	-0.3	0	0	0	0	0	0	0	0
3/18/2025 13:50	41602	CLEV_T1	2	4	2	0.75	0.65	-0.1	0	0	0	0	0	0	0	0
3/18/2025 13:51	44802	EDAN_T2	2	2	0	0.25	0.15	-0.1	-0.85	-0.8	0	0	0	0	0	0
3/18/2025 13:51	64902	MILL_T2	1	1	0	0.1	0.4	0.3	0.17	0.14	0	0	0	0	0	0
3/18/2025 13:51	44801	EDAN_T2	9	9	0	0.78	0.7	-0.08	0	0	0	0	0	0	0	0
3/18/2025 13:51	64903	MILL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
3/18/2025 13:52	47402	PENS_T1	3	3	0	0.63	0.57	-0.06	0	0	0	0	0	0	0	0
3/18/2025 13:52	47403	PENS_T1	2	2	0	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
3/18/2025 13:52	47401	PENS_T1	8	7	-1	0.96	1.03	0.07	0.91	1.02	0	0	0	0	0	0
3/18/2025 13:53	55003	NEWP_T2	18	22	4	0.62	0.59	-0.03	-0.14	-0.14	0	0	0	0	0	0
3/18/2025 13:53	44802	EDAN_T2	2	2	0	0.25	0.15	-0.1	-1.7	-1.6	0	0	0	0	0	0
3/18/2025 13:53	44801	EDAN_T2	9	9	0	0.78	0.7	-0.08	0	0	0	0	0	0	0	0
3/18/2025 13:54	47401	PENS_T1	8	7	-1	0.96	1.03	0.07	0	0	0	0	0	0	0	0
3/18/2025 13:54	44801	EDAN_T2	9	9	0	0.78	0.7	-0.08	0	0	0	0	0	0	0	0
3/18/2025 13:54	47402	PENS_T1	3	3	0	0.63	0.57	-0.06	0	0	0	0	0	0	0	0
3/18/2025 13:54	47403	PENS_T1	2	2	0	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
3/18/2025 13:54	52402	GRPA_T2	72	83	11	0.36	0.36	0	0	0	0	0	0	0	0	0
3/18/2025 13:54	52403	GRPA_T2	100	122	22	0.54	0.62	0.08	-0.54	-0.56	0	0	0	0	0	0
3/18/2025 13:54	52401	GRPA_T2	3	4	1	0.57	0.58	0.01	0	0	0	0	0	0	0	0
3/18/2025 13:54	41902	REED_T1	4	5	1	0.38	0.58	0.2	0	0	0	0	0	0	0	0
3/18/2025 13:54	44802	EDAN_T2	2	2	0	0.25	0.15	-0.1	-0.85	-0.8	0	0	0	0	0	0
3/18/2025 13:55	55002	NEWP_T1	42	118	76	0.57	0.44	-0.13	0	0	0	0	0	0	0	0
3/18/2025 13:55	44801	EDAN_T2	9	9	0	0.78	0.7	-0.08	0	0	0	0	0	0	0	0
3/18/2025 13:55	44802	EDAN_T2	2	2	0	0.25	0.15	-0.1	-2.55	-2.4	0	0	0	0	0	0
3/18/2025 13:55	55001	NEWP_T1	8	14	6	0.59	0.63	0.04	-0.25	-0.27	0	0	0	0	0	0
3/18/2025 13:55	55003	NEWP_T2	18	22	4	0.62	0.59	-0.03	-0.14	-0.14	0	0	0	0	0	0
3/18/2025 13:56	55001	NEWP_T1	8	14	6	0.59	0.63	0.04	-0.76	-0.8	0	0	0	0	0	0
3/18/2025 13:56	46002	BERW_T2	0	0	0	0	0	0	-0.73	-0.81	1	1	0	900	900	0
3/18/2025 13:56	55002	NEWP_T1	42	118	76	0.57	0.44	-0.13	-0.72	-0.72	0	0	0	0	0	0
3/18/2025 13:57	55003	NEWP_T2	18	22	4	0.62	0.59	-0.03	0	0	0	0	0	0	0	0
3/18/2025 13:57	52401	GRPA_T2	3	4	1	0.57	0.58	0.01	0	0	0	0	0	0	0	0
3/18/2025 13:57	55001	NEWP_T1	8	14	6	0.59	0.63	0.04	-0.25	-0.27	0	0	0	0	0	0
3/18/2025 13:57	55002	NEWP_T1	42	118	76	0.57	0.44	-0.13	-0.24	-0.24	0	0	0	0	0	0
3/18/2025 13:57	52402	GRPA_T2	72	83	11	0.36	0.36	0	0	0	0	0	0	0	0	0
3/18/2025 13:57	52403	GRPA_T2	100	122	22	0.54	0.62	0.08	-1.09	-1.12	0	0	0	0	0	0
3/18/2025 13:58	46001	BERW_T1	0	2	2	0	0.15	0.15	0.74	0.71	0	0	0	0	0	0
3/18/2025 13:58	46005	BERW_T1	1	3	2	0.9	0.63	-0.27	0	0	0	0	0	0	0	0
3/18/2025 13:58	46004	BERW_T2	4	4	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/18/2025 13:58	46002	BERW_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/18/2025 13:59	67303	WYOM_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/18/2025 14:00	67605	WARW_T1	90	127	37	0.77	0.58	-0.19	-1.07	-1.08	0	0	0	0	0	0
3/18/2025 14:00	53601	DALM_T2	1	1	0	0.9	0.6	-0.3	-0.78	-0.67	1	1	0	900	900	0
3/18/2025 14:00	67604	WARW_T1	5	6	1	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/18/2025 14:00	67603	WARW_T1	5	7	2	0.42	0.54	0.12	0	0	0	0	0	0	0	0
3/18/2025 14:01	24203	PROV_T4	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/18/2025 14:01	24206	PROV_T4	12	15	3	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
3/18/2025 14:01	24202	PROV_T4	71	98	27	0.17	0.22	0.05	0	0	0	0	0	0	0	0
3/18/2025 14:04	41204	KENM_T2	1	1	0	0.8	0.8	0	-0.03	-0.04	0	0	0	0	0	0
3/18/2025 14:04	41202	KENM_T2	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/18/2025 14:05	64204	KINZ_T1	22	63	41	0.36	0.56	0.2	0	0	0	0	0	0	0	0
3/18/2025 14:05	54505	ENOL_T2	4	4	0	0.88	0.9	0.02	0	0	0	0	0	0	0	0
3/18/2025 14:05	55003	NEWP_T2	22	22	0	0.54	0.7	0.16	0	0	0	0	0	0	0	0
3/18/2025 14:05	15702	TANN_T2	8	9	1	0.48	0.46	-0.02	-0.5	-0.47	0	0	0	0	0	0
3/18/2025 14:05	54502	ENOL_T2	5	27	22	0.54	0.2	-0.34	-2.16	-2.12	1	1	0	600	600	0
3/18/2025 14:05	54501	ENOL_T2	5	7	2	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
3/18/2025 14:05	54504	ENOL_T2	1	2	1	1	0.55	-0.45	0	0	0	0	0	0	0	0
3/18/2025 14:05	64203	KINZ_T1	0	0	0	0	0	0	0.14	0.21	2	2	0	1800	1800	0
3/18/2025 14:05	15703	TANN_T2	1	1	0	5.3	5	-0.3	0	0	0	0	0	0	0	0
3/18/2025 14:05	64202	KINZ_T1	0	5	5	0	0.42	0.42	0	0	0	0	0	0	0	0
3/18/2025 14:07	52501	PROG_T1	5	5	0	0.24	0.24	0	0	0	0	0	0	0	0	0
3/18/2025 14:07	43801	SWIL_T1	155	7	-148	0.31	0.81	0.5	0	0	0	0	0	0	0	0
3/18/2025 14:07	43802	SWIL_T1	32	3	-29	0.33	0.67	0.34	-0.26	-0.28	1	1	0	600	600	0
3/18/2025 14:08	13103	NHAM_T2	0	0	0	0	0	0	-1.77	-1.79	1	1	0	600	600	0
3/18/2025 14:08	41601	CLEV_T1	2	3	1	0.8	0.77	-0.03	0	0	0	0	0	0	0	0
3/18/2025 14:08	41602	CLEV_T1	2	5	3	0.8	0.54	-0.26	0	0	0	0	0	0	0	0
3/18/2025 14:09	52501	PROG_T1	5	5	0	0.24	0.24	0	0.25	0.26	1	1	0	300	300	0
3/18/2025 14:09	15702	TANN_T2	8	9	1	0.48	0.46	-0.02	-0.94	-1.02	0	0	0	0	0	0
3/18/2025 14:09	15703	TANN_T2	1	1	0	5.3	5	-0.3	0	0	0	0	0	0	0	0
3/18/2025 14:13	11203	ELHE_T1	0	0	0	0	0	0	1.17	1.2	0	0	0	0	0	0
3/18/2025 14:14	46002	BERW_T2	1	2	1	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/18/2025 14:14	20402	ASHF_T2	4	10	6	0.28	0.3	0.02	0	0	0	0	0	0	0	0
3/18/2025 14:14	20401	ASHF_T2	13	20	7	0.43	0.41	-0.02	0	0	0	0	0	0	0	0
3/18/2025 14:14	20403	ASHF_T2	133	282	149	0.43	0.45	0.02	0	0	0	0	0	0	0	0
3/18/2025 14:14	46004	BERW_T2	3	5	2	0.67	0.58	-0.09	-0.29	-0.25	0	0	0	0	0	0
3/18/2025 14:15	11301	EMMA_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/18/2025 14:15	11302	EMMA_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
3/18/2025 14:15	11303	EMMA_T1	7	8	1	0.69	0.73	0.04	0	0	0	0	0	0	0	0
3/18/2025 14:16	11303	EMMA_T1	7	8	1	0.69	0.73	0.04	0	0	0	0	0	0	0	0
3/18/2025 14:16	15603	NSTR_T2	3	10	7	0.43	0.25	-0.18	0	0	0	0	0	0	0	0
3/18/2025 14:16	11302	EMMA_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
3/18/2025 14:16	15601	NSTR_T2	9	15	6	0.44	0.55	0.11	0	0	0	0	0	0	0	0
3/18/2025 14:16	11301	EMMA_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/18/2025 14:16	15602	NSTR_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 14:17	11302	EMMA_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
3/18/2025 14:17	64702	LITI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 14:17	41002	LAUR_T2	4	35	31	0.7	0.27	-0.43	-1.02	-1.03	0	0	0	0	0	0
3/18/2025 14:17	41001	LAUR_T2	3	63	60	1.4	0.25	-1.15	0	0	0	0	0	0	0	0
3/18/2025 14:17	11303	EMMA_T1	7	8	1	0.69	0.73	0.04	0	0	0	0	0	0	0	0
3/18/2025 14:17	11301	EMMA_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/18/2025 14:18	15602	NSTR_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 14:18	15601	NSTR_T2	9	15	6	0.44	0.55	0.11	0	0	0	0	0	0	0	0
3/18/2025 14:18	11303	EMMA_T1	7	8	1	0.69	0.73	0.04	0	0	0	0	0	0	0	0
3/18/2025 14:18	15603	NSTR_T2	3	10	7	0.43	0.25	-0.18	-0.74	-0.74	0	0	0	0	0	0
3/18/2025 14:18	11301	EMMA_T1	1	1	0	0.4	0.2	-0.2	-0.81	-0.91	0	0	0	0	0	0
3/18/2025 14:18	11302	EMMA_T1	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0	0
3/18/2025 14:19	42901	MIDD_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/18/2025 14:19	42902	MIDD_T2	8	13	5	0.65	0.78	0.13	-0.33	-0.28	0	0	0	0	0	0
3/18/2025 14:19	42903	MIDD_T2	0	2	2	0	0.55	0.55	0	0	0	0	0	0	0	0
3/18/2025 14:20	64701	LITI_T2	0	1	1	0	0.1	0.1	-0.73	-0.75	0	0	0	0	0	0
3/18/2025 14:20	44802	EDAN_T2	2	3	1	0.1	0.23	0.13	-0.8	-0.84	0	0	0	0	0	0
3/18/2025 14:20	44801	EDAN_T2	5	9	4	0.62	0.78	0.16	-0.43	-0.44	0	0	0	0	0	0
3/18/2025 14:21	15603	NSTR_T2	3	10	7	0.43	0.25	-0.18	0	0	0	0	0	0	0	0
3/18/2025 14:21	15602	NSTR_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 14:21	15601	NSTR_T2	9	15	6	0.44	0.55	0.11	0	0	0	0	0	0	0	0
3/18/2025 14:22	64702	LITI_T2	0	1	1	0	0.1	0.1	-0.75	-0.71	0	0	0	0	0	0
3/18/2025 14:23	14802	TREI_T2	36	85	49	0.4	0.32	-0.08	0.32	0.34	0	0	0	0	0	0
3/18/2025 14:23	14801	TREI_T2	108	194	86	0.41	0.45	0.04	0	0	0	0	0	0	0	0
3/18/2025 14:24	14602	SWHI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 14:24	14601	SWHI_T1	5	9	4	0.54	0.49	-0.05	0	0	0	0	0	0	0	0
3/18/2025 14:24	14603	SWHI_T1	11	13	2	0.51	0.57	0.06	-0.37	-0.36	0	0	0	0	0	0
3/18/2025 14:25	14602	SWHI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 14:25	14603	SWHI_T1	11	13	2	0.51	0.57	0.06	-0.37	-0.36	0	0	0	0	0	0
3/18/2025 14:25	14601	SWHI_T1	5	9	4	0.54	0.49	-0.05	0	0	0	0	0	0	0	0
3/18/2025 14:26	14604	SWHI_T1	0	0	0	0	0	0	0	-0.02	1	1	0	900	900	0
3/18/2025 14:26	14601	SWHI_T1	5	9	4	0.54	0.49	-0.05	0	0	0	0	0	0	0	0
3/18/2025 14:26	14602	SWHI_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 14:26	14603	SWHI_T1	11	13	2	0.51	0.57	0.06	0	0	0	0	0	0	0	0
3/18/2025 14:28	24101	EHAZ_T1	24	18	-6	0.98	0.4	-0.58	0	0	0	0	0	0	0	0
3/18/2025 14:28	24104	EHAZ_T1	1	5	4	0.6	0.36	-0.24	-2.23	-2.22	1	1	0	1200	1200	0
3/18/2025 14:28	24102	EHAZ_T1	7	2	-5	0.76	0	-0.76	0	0	0	0	0	0	0	0
3/18/2025 14:28	24105	EHAZ_T1	4	4	0	6.28	5.9	-0.38	0	0	0	0	0	0	0	0
3/18/2025 14:29	11203	ELHE_T1	0	0	0	0	0	0	1.2	1.17	0	0	0	0	0	0
3/18/2025 14:31	23202	HIRU_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/18/2025 14:31	23203	HIRU_T2	1	1	0	0.1	0.3	0.2	0.06	0.16	0	0	0	0	0	0
3/18/2025 14:31	23201	HIRU_T2	7	12	5	0.29	0.24	-0.05	0	0	0	0	0	0	0	0
3/18/2025 14:32	15601	NSTR_T2	12	15	3	0.49	0.59	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/18/2025 14:32	15603	NSTR_T2	5	10	5	0.38	0.29	-0.09	0	0	0	0	0	0	0	0
3/18/2025 14:32	15602	NSTR_T2	1	1	0	1	1.1	0.1	0.07	0.06	0	0	0	0	0	0
3/18/2025 14:34	24104	EHAZ_T1	3	5	2	0.33	0.4	0.07	0	0	0	0	0	0	0	0
3/18/2025 14:34	24102	EHAZ_T1	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
3/18/2025 14:34	24103	EHAZ_T1	0	0	0	0	0	0	-1.37	-1.28	0	0	0	0	0	0
3/18/2025 14:34	24105	EHAZ_T1	4	4	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
3/18/2025 14:34	24101	EHAZ_T1	18	6	-12	0.29	0.7	0.41	0	0	0	0	0	0	0	0
3/18/2025 14:35	58401	MORO_T1	15	14	-1	0.51	0.47	-0.04	0	0	0	0	0	0	0	0
3/18/2025 14:35	23202	HIRU_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/18/2025 14:35	63601	LETO_T1	6	6	0	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
3/18/2025 14:35	23203	HIRU_T2	1	1	0	0.1	0.3	0.2	0.06	0.16	0	0	0	0	0	0
3/18/2025 14:35	63602	LETO_T1	147	151	4	0.29	0.33	0.04	-0.39	-0.46	0	0	0	0	0	0
3/18/2025 14:35	58402	MORO_T1	10	3	-7	0.27	0.33	0.06	0	0	0	0	0	0	0	0
3/18/2025 14:35	23201	HIRU_T2	7	12	5	0.29	0.24	-0.05	0	0	0	0	0	0	0	0
3/18/2025 14:37	63601	LETO_T1	6	6	0	0.5	0.48	-0.02	1.18	1.04	1	1	0	900	900	0
3/18/2025 14:37	63602	LETO_T1	147	151	4	0.29	0.33	0.04	0	0	0	0	0	0	0	0
3/18/2025 14:38	58401	MORO_T1	15	14	-1	0.51	0.47	-0.04	-2.03	-2.14	2	2	0	1200	1200	0
3/18/2025 14:38	58402	MORO_T1	10	3	-7	0.27	0.33	0.06	0	0	0	0	0	0	0	0
3/18/2025 14:39	58401	MORO_T1	15	14	-1	0.51	0.47	-0.04	-2.03	-2.14	2	2	0	1200	1200	0
3/18/2025 14:39	58402	MORO_T1	10	3	-7	0.27	0.33	0.06	-0.44	-0.56	6	6	0	4500	4500	0
3/18/2025 14:39	52501	PROG_T1	5	4	-1	0.24	0.18	-0.06	0	0	0	0	0	0	0	0
3/18/2025 14:40	63601	LETO_T1	6	6	0	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
3/18/2025 14:40	67102	SPRI_T2	3	6	3	0.13	0.22	0.09	0	0	0	0	0	0	0	0
3/18/2025 14:40	67101	SPRI_T2	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
3/18/2025 14:40	63602	LETO_T1	147	151	4	0.29	0.33	0.04	-0.46	-0.51	0	0	0	0	0	0
3/18/2025 14:40	67106	SPRI_T2	1	5	4	0.3	0.3	0	-1.31	-1.31	1	1	0	900	900	0
3/18/2025 14:40	61103	BERK_T5	44	132	88	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
3/18/2025 14:40	61101	BERK_T5	6	8	2	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
3/18/2025 14:40	61102	BERK_T5	6	8	2	0.3	0.34	0.04	0.46	0.47	1	1	0	300	300	0
3/18/2025 14:41	63601	LETO_T1	6	6	0	0.5	0.48	-0.02	0	0	0	0	0	0	0	0
3/18/2025 14:41	61101	BERK_T5	6	8	2	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
3/18/2025 14:41	63602	LETO_T1	147	151	4	0.29	0.33	0.04	-0.46	-0.51	0	0	0	0	0	0
3/18/2025 14:41	61102	BERK_T5	6	8	2	0.3	0.34	0.04	0.92	0.95	2	2	0	600	600	0
3/18/2025 14:41	61103	BERK_T5	44	132	88	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
3/18/2025 14:41	52501	PROG_T1	5	4	-1	0.24	0.18	-0.06	0.29	0.27	1	1	0	300	300	0
3/18/2025 14:42	61103	BERK_T5	44	132	88	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
3/18/2025 14:42	61102	BERK_T5	6	8	2	0.3	0.34	0.04	0.46	0.47	1	1	0	300	300	0
3/18/2025 14:42	61101	BERK_T5	6	8	2	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
3/18/2025 14:42	67102	SPRI_T2	3	6	3	0.13	0.22	0.09	0	0	0	0	0	0	0	0
3/18/2025 14:42	44302	BEAV_T2	4	12	8	0.95	0.69	-0.26	0	0	0	0	0	0	0	0
3/18/2025 14:42	44301	BEAV_T2	3	23	20	0.33	0.32	-0.01	0.16	0.1	1	1	0	600	600	0
3/18/2025 14:42	67101	SPRI_T2	1	1	0	2.4	2.4	0	0	0	0	0	0	0	0	0
3/18/2025 14:42	67106	SPRI_T2	1	5	4	0.3	0.3	0	-2.62	-2.62	2	2	0	1800	1800	0
3/18/2025 14:43	44301	BEAV_T2	3	23	20	0.33	0.32	-0.01	0.16	0.1	1	1	0	600	600	0
3/18/2025 14:43	61102	BERK_T5	6	8	2	0.3	0.34	0.04	0.46	0.47	1	1	0	300	300	0
3/18/2025 14:43	44302	BEAV_T2	4	12	8	0.95	0.69	-0.26	0	0	0	0	0	0	0	0
3/18/2025 14:43	61101	BERK_T5	6	8	2	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
3/18/2025 14:43	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 14:43	61103	BERK_T5	44	132	88	0.23	0.18	-0.05	-0.01	0.14	0	0	0	0	0	0
3/18/2025 14:44	61103	BERK_T5	44	132	88	0.23	0.18	-0.05	0	0	0	0	0	0	0	0
3/18/2025 14:44	44302	BEAV_T2	4	12	8	0.95	0.69	-0.26	0	0	0	0	0	0	0	0
3/18/2025 14:44	61101	BERK_T5	6	8	2	0.6	0.53	-0.07	0	0	0	0	0	0	0	0
3/18/2025 14:44	61102	BERK_T5	6	8	2	0.3	0.34	0.04	0.46	0.47	1	1	0	300	300	0
3/18/2025 14:44	44301	BEAV_T2	3	23	20	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
3/18/2025 14:45	53501	EVIL_T2	3	5	2	0.73	0.66	-0.07	-0.86	-0.88	1	1	0	600	600	0
3/18/2025 14:46	44301	BEAV_T2	14	20	6	0.37	0.32	-0.05	0.16	0.1	1	1	0	600	600	0
3/18/2025 14:46	44302	BEAV_T2	7	12	5	1	0.66	-0.34	0.27	0.29	0	0	0	0	0	0
3/18/2025 14:47	17805	GILB_T2	9	9	0	0.51	0.53	0.02	-0.1	-0.13	0	0	0	0	0	0
3/18/2025 14:47	17804	GILB_T2	30	9	-21	0.3	0.59	0.29	0	0	0	0	0	0	0	0
3/18/2025 14:47	17803	GILB_T2	27	10	-17	0.31	0.34	0.03	0	0	0	0	0	0	0	0
3/18/2025 14:49	17802	GILB_T1	16	12	-4	0.48	0.46	-0.02	0	0.01	0	0	0	0	0	0
3/18/2025 14:49	17804	GILB_T2	30	9	-21	0.3	0.59	0.29	0	0	0	0	0	0	0	0
3/18/2025 14:49	53501	EVIL_T2	3	5	2	0.73	0.66	-0.07	-0.86	-0.88	1	1	0	600	600	0
3/18/2025 14:49	17803	GILB_T2	27	10	-17	0.31	0.34	0.03	0	0	0	0	0	0	0	0
3/18/2025 14:49	17805	GILB_T2	9	9	0	0.51	0.53	0.02	-0.1	-0.13	0	0	0	0	0	0
3/18/2025 14:52	44202	POIN_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/18/2025 14:52	44203	POIN_T2	0	2	2	0	0.5	0.5	-0.81	-0.95	2	2	0	2100	2100	0
3/18/2025 14:55	43801	SWIL_T1	12	15	3	0.51	0.45	-0.06	0	0	0	0	0	0	0	0
3/18/2025 14:55	43802	SWIL_T1	2	2	0	0.75	0.95	0.2	-0.27	-0.28	1	1	0	600	600	0
3/18/2025 14:57	40303	TAMA_T3	8	9	1	0.28	0.39	0.11	0	0	0	0	0	0	0	0
3/18/2025 14:57	40302	TAMA_T3	34	49	15	0.57	0.52	-0.05	0	0	0	0	0	0	0	0
3/18/2025 14:57	40301	TAMA_T3	11	11	0	0.59	0.63	0.04	1.87	1.89	2	2	0	1800	1800	0
3/18/2025 14:58	42701	AUGU_T1	3	5	2	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
3/18/2025 14:59	20401	ASHF_T2	77	44	-33	0.25	0.3	0.05	0	0	0	0	0	0	0	0
3/18/2025 14:59	42701	AUGU_T1	3	5	2	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
3/18/2025 14:59	20403	ASHF_T2	323	323	0	0.57	0.52	-0.05	-0.09	-0.09	0	0	0	0	0	0
3/18/2025 14:59	20402	ASHF_T2	17	9	-8	0.28	0.29	0.01	0	0	0	0	0	0	0	0
3/18/2025 15:00	24105	EHAZ_T1	4	4	0	6.23	6.03	-0.2	0	0	0	0	0	0	0	0
3/18/2025 15:00	24102	EHAZ_T1	0	0	0	0	0	0	-0.36	-0.32	0	0	0	0	0	0
3/18/2025 15:00	24101	EHAZ_T1	3	18	15	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/18/2025 15:00	24104	EHAZ_T1	3	3	0	0.5	0.47	-0.03	0	0	0	0	0	0	0	0
3/18/2025 15:09	66902	SHIL_T2	13	3	-10	0.32	0.53	0.21	-1.07	-1.05	0	0	0	0	0	0
3/18/2025 15:09	66903	SHIL_T2	6	2	-4	0.27	0.35	0.08	0	0	0	0	0	0	0	0
3/18/2025 15:09	21206	ECAR_T2	1	2	1	8.3	4.15	-4.15	-0.03	-0.37	0	0	0	0	0	0
3/18/2025 15:09	13103	NHAM_T2	1	1	0	0.4	0.1	-0.3	-1.8	-1.78	1	1	0	600	600	0
3/18/2025 15:09	21202	ECAR_T2	0	3	3	0	1.73	1.73	0	0	0	0	0	0	0	0
3/18/2025 15:09	66901	SHIL_T2	9	6	-3	0.44	0.38	-0.06	0	0	0	0	0	0	0	0
3/18/2025 15:09	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 15:10	54601	SUMM_T2	15	12	-3	1.01	0.73	-0.28	-1.77	-1.85	2	2	0	2100	2100	0
3/18/2025 15:10	66901	SHIL_T2	9	6	-3	0.44	0.38	-0.06	0	0	0	0	0	0	0	0
3/18/2025 15:10	54602	SUMM_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 15:10	66902	SHIL_T2	13	3	-10	0.32	0.53	0.21	0	0	0	0	0	0	0	0
3/18/2025 15:10	66903	SHIL_T2	6	2	-4	0.27	0.35	0.08	0	0	0	0	0	0	0	0
3/18/2025 15:11	52401	GRPA_T2	5	4	-1	0.7	0.88	0.18	0	0	0	0	0	0	0	0
3/18/2025 15:11	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 15:11	52402	GRPA_T2	20	63	43	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
3/18/2025 15:11	52403	GRPA_T2	128	130	2	0.69	0.66	-0.03	-0.49	-0.51	0	0	0	0	0	0
3/18/2025 15:14	54601	SUMM_T2	15	12	-3	1.01	0.73	-0.28	-1.77	-1.85	2	2	0	2100	2100	0
3/18/2025 15:14	54602	SUMM_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 15:18	45801	HEGI_T1	0	0	0	0	0	0	-0.24	-0.24	1	1	0	900	900	0
3/18/2025 15:19	41001	LAUR_T2	55	78	23	0.3	0.42	0.12	0	0	0	0	0	0	0	0
3/18/2025 15:19	41002	LAUR_T2	44	58	14	0.29	0.46	0.17	0	0	0	0	0	0	0	0
3/18/2025 15:22	41602	CLEV_T1	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/18/2025 15:22	41601	CLEV_T1	2	2	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
3/18/2025 15:23	41902	REED_T1	4	4	0	0.38	0.3	-0.08	1.08	1.04	0	0	0	0	0	0
3/18/2025 15:24	51301	WIND_T1	6	5	-1	0.18	0.14	-0.04	0	0	0	0	0	0	0	0
3/18/2025 15:24	51305	WIND_T1	1	1	0	0.4	0.5	0.1	0.22	0.24	0	0	0	0	0	0
3/18/2025 15:24	51303	WIND_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/18/2025 15:24	51306	WIND_T2	1	3	2	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/18/2025 15:24	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 15:24	41902	REED_T1	4	4	0	0.38	0.3	-0.08	1.08	1.04	0	0	0	0	0	0
3/18/2025 15:25	41602	CLEV_T1	2	2	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/18/2025 15:25	44601	SALE_T2	0	0	0	0	0	0	-0.23	0.46	1	2	1	600	900	300
3/18/2025 15:25	41601	CLEV_T1	2	2	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
3/18/2025 15:25	41902	REED_T1	4	4	0	0.38	0.3	-0.08	1.08	1.04	0	0	0	0	0	0
3/18/2025 15:26	41902	REED_T1	4	4	0	0.38	0.3	-0.08	1.08	1.04	0	0	0	0	0	0
3/18/2025 15:26	64202	KINZ_T1	3	4	1	0.13	0.4	0.27	0.7	0.61	0	0	0	0	0	0
3/18/2025 15:26	64204	KINZ_T1	21	34	13	0.57	0.52	-0.05	0	0	0	0	0	0	0	0
3/18/2025 15:26	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 15:27	16103	BING_T2	2	2	0	0.95	0.65	-0.3	0	0	0	0	0	0	0	0
3/18/2025 15:27	41902	REED_T1	4	4	0	0.38	0.3	-0.08	1.08	1.04	0	0	0	0	0	0
3/18/2025 15:27	16101	BING_T2	2	3	1	0.85	0.6	-0.25	0	0	0	0	0	0	0	0
3/18/2025 15:27	16102	BING_T2	8	8	0	0.9	0.86	-0.04	0	0	0	0	0	0	0	0
3/18/2025 15:28	16101	BING_T2	2	3	1	0.85	0.6	-0.25	0	0	0	0	0	0	0	0
3/18/2025 15:28	64204	KINZ_T1	21	34	13	0.57	0.52	-0.05	0	0	0	0	0	0	0	0
3/18/2025 15:28	16102	BING_T2	8	8	0	0.9	0.86	-0.04	0.05	-0.05	0	0	0	0	0	0
3/18/2025 15:28	41902	REED_T1	4	4	0	0.38	0.3	-0.08	1.08	1.04	0	0	0	0	0	0
3/18/2025 15:28	16103	BING_T2	2	2	0	0.95	0.65	-0.3	0	0	0	0	0	0	0	0
3/18/2025 15:28	64202	KINZ_T1	3	4	1	0.13	0.4	0.27	0	0	0	0	0	0	0	0
3/18/2025 15:28	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 15:30	16103	BING_T2	2	1	-1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
3/18/2025 15:30	16102	BING_T2	8	8	0	0.86	0.46	-0.4	0	0	0	0	0	0	0	0
3/18/2025 15:30	16101	BING_T2	3	2	-1	0.6	0.55	-0.05	0.21	0.23	0	0	0	0	0	0
3/18/2025 15:31	16102	BING_T2	8	8	0	0.86	0.46	-0.4	0.05	-0.05	0	0	0	0	0	0
3/18/2025 15:31	16101	BING_T2	3	2	-1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
3/18/2025 15:31	16103	BING_T2	2	1	-1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
3/18/2025 15:32	16102	BING_T2	8	8	0	0.86	0.46	-0.4	0	0	0	0	0	0	0	0
3/18/2025 15:32	16103	BING_T2	2	1	-1	0.65	0.5	-0.15	0	0	0	0	0	0	0	0
3/18/2025 15:32	16101	BING_T2	3	2	-1	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
3/18/2025 15:35	64904	MILL_T1	0	3	3	0	0.13	0.13	0.34	0.4	0	0	0	0	0	0
3/18/2025 15:35	64901	MILL_T1	13	60	47	0.12	0.22	0.1	0	0	0	0	0	0	0	0
3/18/2025 15:42	52404	GRPA_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/18/2025 15:42	52403	GRPA_T2	125	140	15	0.62	0.57	-0.05	-0.54	-0.49	0	0	0	0	0	0
3/18/2025 15:42	52401	GRPA_T2	4	4	0	0.78	0.53	-0.25	0	0	0	0	0	0	0	0
3/18/2025 15:42	52402	GRPA_T2	21	21	0	0.64	0.61	-0.03	0	0	0	0	0	0	0	0
3/18/2025 15:46	12202	FOGE_T2	18	15	-3	0.73	0.71	-0.02	-0.66	-0.69	1	1	0	600	600	0
3/18/2025 15:47	20401	ASHF_T2	17	16	-1	0.46	0.38	-0.08	0	0	0	0	0	0	0	0
3/18/2025 15:47	52404	GRPA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/18/2025 15:47	52403	GRPA_T2	140	62	-78	0.57	0.43	-0.14	-0.54	-0.49	0	0	0	0	0	0
3/18/2025 15:47	20402	ASHF_T2	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
3/18/2025 15:47	52401	GRPA_T2	4	1	-3	0.53	0.2	-0.33	0	0	0	0	0	0	0	0
3/18/2025 15:47	20403	ASHF_T2	130	182	52	0.39	0.34	-0.05	-0.02	-0.07	0	0	0	0	0	0
3/18/2025 15:47	52402	GRPA_T2	21	25	4	0.61	0.5	-0.11	0	0	0	0	0	0	0	0
3/18/2025 15:51	23201	HIRU_T2	0	9	9	0	0.19	0.19	0	0	0	0	0	0	0	0
3/18/2025 15:51	23203	HIRU_T2	0	4	4	0	0.18	0.18	0	0	0	0	0	0	0	0
3/18/2025 15:51	23202	HIRU_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 15:52	52402	GRPA_T2	21	25	4	0.61	0.5	-0.11	0	0	0	0	0	0	0	0
3/18/2025 15:52	52401	GRPA_T2	4	1	-3	0.53	0.2	-0.33	0	0	0	0	0	0	0	0
3/18/2025 15:52	52404	GRPA_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/18/2025 15:52	52403	GRPA_T2	140	62	-78	0.57	0.43	-0.14	-0.49	-0.49	0	0	0	0	0	0
3/18/2025 15:55	45801	HEGI_T1	0	0	0	0	0	0	-0.23	-0.29	1	1	0	900	900	0
3/18/2025 15:55	59402	RFLD_T2	3	5	2	0.3	0.36	0.06	-0.35	-0.33	0	0	0	0	0	0
3/18/2025 15:59	45702	LIND_T2	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/18/2025 16:01	63501	HEID_TBK1-2	24	40	16	0.27	0.27	0	-0.51	-0.31	2	2	0	1800	1800	0
3/18/2025 16:01	14502	SCHO_T1	1	1	0	1.1	0.5	-0.6	0	0	0	0	0	0	0	0
3/18/2025 16:01	14501	SCHO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 16:03	63501	HEID_TBK1-2	24	40	16	0.27	0.27	0	-0.26	-0.16	1	1	0	900	900	0
3/18/2025 16:05	41002	LAUR_T2	54	47	-7	0.41	0.32	-0.09	0	0	0	0	0	0	0	0
3/18/2025 16:05	41001	LAUR_T2	69	69	0	0.36	0.29	-0.07	0	0	0	0	0	0	0	0
3/18/2025 16:06	66505	SMAN_T2	3	3	0	0.33	0.27	-0.06	0.04	0.01	1	1	0	900	900	0
3/18/2025 16:06	66503	SMAN_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/18/2025 16:06	66502	SMAN_T2	8	5	-3	0.36	0.4	0.04	0	0	0	0	0	0	0	0
3/18/2025 16:06	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 16:06	66504	SMAN_T2	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
3/18/2025 16:07	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 16:07	66503	SMAN_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/18/2025 16:07	66504	SMAN_T2	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
3/18/2025 16:07	66502	SMAN_T2	8	5	-3	0.36	0.4	0.04	0	0	0	0	0	0	0	0
3/18/2025 16:07	66505	SMAN_T2	3	3	0	0.33	0.27	-0.06	0.04	0.01	1	1	0	900	900	0
3/18/2025 16:10	66505	SMAN_T2	3	3	0	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
3/18/2025 16:10	66502	SMAN_T2	8	5	-3	0.36	0.4	0.04	-0.07	-0.09	0	0	0	0	0	0
3/18/2025 16:10	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 16:10	66504	SMAN_T2	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
3/18/2025 16:10	66503	SMAN_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/18/2025 16:11	66501	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 16:11	66502	SMAN_T2	8	5	-3	0.36	0.4	0.04	0	0	0	0	0	0	0	0
3/18/2025 16:11	66505	SMAN_T2	3	3	0	0.33	0.27	-0.06	0	0	0	0	0	0	0	0
3/18/2025 16:11	66504	SMAN_T2	1	1	0	0.9	0.1	-0.8	0	0	0	0	0	0	0	0
3/18/2025 16:11	66503	SMAN_T2	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/18/2025 16:12	66902	SHIL_T2	3	2	-1	0.4	0.3	-0.1	-1.07	-1.04	0	0	0	0	0	0
3/18/2025 16:12	66901	SHIL_T2	5	3	-2	0.32	0.33	0.01	0	0	0	0	0	0	0	0
3/18/2025 16:12	66903	SHIL_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 16:13	57203	ROSS_T1	367	162	-205	0.15	0.13	-0.02	0	0	0	0	0	0	0	0
3/18/2025 16:13	57205	ROSS_T1	59	18	-41	0.26	0.39	0.13	0.12	0.13	0	0	0	0	0	0
3/18/2025 16:13	57201	ROSS_T1	268	223	-45	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
3/18/2025 16:15	40801	EXCH_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/18/2025 16:15	40802	EXCH_T2	4	2	-2	0.45	0.4	-0.05	-0.72	-0.3	0	0	0	0	0	0
3/18/2025 16:16	44302	BEAV_T2	3	6	3	0.7	0.43	-0.27	0.32	0.31	0	0	0	0	0	0
3/18/2025 16:16	40801	EXCH_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/18/2025 16:16	44502	HAMI_T2	3	3	0	1.4	1.37	-0.03	0	0	0	0	0	0	0	0
3/18/2025 16:16	44301	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 16:16	40802	EXCH_T2	4	2	-2	0.45	0.4	-0.05	-0.72	-0.3	0	0	0	0	0	0
3/18/2025 16:16	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 16:18	45303	WBER_T2	2	10	8	3.85	1.21	-2.64	0.03	-0.27	0	0	0	0	0	0
3/18/2025 16:18	45301	WBER_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/18/2025 16:18	40801	EXCH_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/18/2025 16:18	40802	EXCH_T2	4	2	-2	0.45	0.4	-0.05	-0.72	-0.3	0	0	0	0	0	0
3/18/2025 16:20	10109	ALLE_T3	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/18/2025 16:20	10107	ALLE_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 16:20	10105	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 16:20	10101	ALLE_T3	2	2	0	4.75	5.45	0.7	0	0	0	0	0	0	0	0
3/18/2025 16:21	44502	HAMI_T2	3	3	0	1.4	1.37	-0.03	0	0	0	0	0	0	0	0
3/18/2025 16:21	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/18/2025 16:22	44505	HAMI_T2	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/18/2025 16:22	44502	HAMI_T2	3	3	0	1.4	1.37	-0.03	0	0	0	0	0	0	0	0
3/18/2025 16:23	45303	WBER_T2	2	10	8	3.85	1.21	-2.64	-0.27	-0.31	0	0	0	0	0	0
3/18/2025 16:23	45301	WBER_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/18/2025 16:26	45301	WBER_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/18/2025 16:26	45303	WBER_T2	2	10	8	3.85	1.21	-2.64	-0.27	-0.31	0	0	0	0	0	0
3/18/2025 16:26	67402	WAKE_T2	1	0	-1	0.2	0	-0.2	0.2	0.2	0	0	0	0	0	0
3/18/2025 16:26	67401	WAKE_T2	14	19	5	0.13	0.12	-0.01	-1.16	-1.18	0	0	0	0	0	0
3/18/2025 16:27	67402	WAKE_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 16:27	67401	WAKE_T2	14	19	5	0.13	0.12	-0.01	-2.32	-2.36	0	0	0	0	0	0
3/18/2025 16:28	67402	WAKE_T2	1	0	-1	0.2	0	-0.2	0.2	0.2	0	0	0	0	0	0
3/18/2025 16:28	67401	WAKE_T2	14	19	5	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
3/18/2025 16:29	67402	WAKE_T2	1	0	-1	0.2	0	-0.2	0.2	0.2	0	0	0	0	0	0
3/18/2025 16:29	67401	WAKE_T2	14	19	5	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
3/18/2025 16:30	61001	DONV_T1	1	1	0	0.5	0.3	-0.2	-0.11	-0.06	0	0	0	0	0	0
3/18/2025 16:33	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
3/18/2025 16:33	67401	WAKE_T2	19	32	13	0.12	0.19	0.07	0	0	0	0	0	0	0	0
3/18/2025 16:34	45301	WBER_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 16:34	45303	WBER_T2	10	10	0	1.1	1.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 16:34	45302	WBER_T2	0	0	0	0	0	0	0.65	0.6	0	0	0	0	0	0
3/18/2025 16:36	47101	MARL_T1	0	0	0	0	0	0	-1.35	-1.36	0	0	0	0	0	0
3/18/2025 16:42	67401	WAKE_T2	19	32	13	0.12	0.19	0.07	-1.18	-1.23	0	0	0	0	0	0
3/18/2025 16:42	42701	AUGU_T1	1	1	0	1.7	1.7	0	0	0	0	0	0	0	0	0
3/18/2025 16:43	67401	WAKE_T2	19	32	13	0.12	0.19	0.07	0	0	0	0	0	0	0	0
3/18/2025 16:43	67402	WAKE_T2	0	0	0	0	0	0	0.2	0.17	0	0	0	0	0	0
3/18/2025 16:45	42701	AUGU_T1	1	1	0	1.7	1.7	0	0	0	2	2	0	1800	1800	0
3/18/2025 16:47	44502	HAMI_T2	2	2	0	1.9	1.8	-0.1	0.02	0.02	0	0	0	0	0	0
3/18/2025 16:49	17805	GILB_T2	4	1	-3	0.38	0.3	-0.08	-0.21	-0.2	0	0	0	0	0	0
3/18/2025 16:49	17804	GILB_T2	4	5	1	0.6	0.28	-0.32	0	0	0	0	0	0	0	0
3/18/2025 16:49	17803	GILB_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 16:53	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/18/2025 16:54	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 16:54	45902	AUBU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
3/18/2025 16:58	14801	TREI_T2	105	104	-1	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
3/18/2025 16:58	14802	TREI_T2	39	19	-20	0.27	0.37	0.1	0	0	0	0	0	0	0	0
3/18/2025 16:58	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 16:59	14801	TREI_T2	105	104	-1	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
3/18/2025 16:59	14802	TREI_T2	39	19	-20	0.27	0.37	0.1	0	0	0	0	0	0	0	0
3/18/2025 16:59	46001	BERW_T1	0	0	0	0	0	0	0.56	0.5	0	0	0	0	0	0
3/18/2025 17:00	46001	BERW_T1	0	0	0	0	0	0	0.56	0.5	0	0	0	0	0	0
3/18/2025 17:02	20603	GRWO_T2	203	203	0	0.46	0.49	0.03	0	0	0	0	0	0	0	0
3/18/2025 17:02	20601	GRWO_T2	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
3/18/2025 17:02	20602	GRWO_T2	51	72	21	0.25	0.29	0.04	0	0	0	0	0	0	0	0
3/18/2025 17:05	20601	GRWO_T2	0	0	0	0	0	0	0.83	0.82	0	0	0	0	0	0
3/18/2025 17:05	20602	GRWO_T2	51	72	21	0.25	0.29	0.04	0	0	0	0	0	0	0	0
3/18/2025 17:05	20603	GRWO_T2	203	203	0	0.46	0.49	0.03	0	0	0	0	0	0	0	0
3/18/2025 17:07	10105	ALLE_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 17:07	10101	ALLE_T3	2	2	0	5.7	4.5	-1.2	0	0	0	0	0	0	0	0
3/18/2025 17:07	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 17:08	61302	EARL_T1	0	0	0	0	0	0	-0.13	-0.21	2	2	0	1800	1800	0
3/18/2025 17:08	46504	LOHA_T1	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
3/18/2025 17:08	10101	ALLE_T3	2	2	0	5.7	4.5	-1.2	0	0	0	0	0	0	0	0
3/18/2025 17:08	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
3/18/2025 17:08	46506	LOHA_T1	4	3	-1	3.7	4.93	1.23	0	0	0	0	0	0	0	0
3/18/2025 17:08	61304	EARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 17:08	10105	ALLE_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 17:08	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 17:10	61304	EARL_T1	0	1	1	0	0.2	0.2	-0.4	-0.37	0	0	0	0	0	0
3/18/2025 17:10	55002	NEWP_T1	8	7	-1	0.94	1.01	0.07	-0.28	-0.28	0	0	0	0	0	0
3/18/2025 17:10	55001	NEWP_T1	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
3/18/2025 17:11	67605	WARW_T1	33	29	-4	0.57	0.61	0.04	-1.06	-1.08	0	0	0	0	0	0
3/18/2025 17:13	60801	BUCK_T1	40	40	0	0.22	0.22	0	0	0	0	0	0	0	0	0
3/18/2025 17:13	60803	BUCK_T1	11	14	3	0.25	0.26	0.01	0	0	0	0	0	0	0	0
3/18/2025 17:14	60801	BUCK_T1	40	40	0	0.22	0.22	0	-0.5	-0.5	0	0	0	0	0	0
3/18/2025 17:14	60803	BUCK_T1	11	14	3	0.25	0.26	0.01	-1.12	-1.1	2	2	0	1200	1200	0
3/18/2025 17:15	60803	BUCK_T1	14	7	-7	0.26	0.16	-0.1	-1.12	-1.1	2	2	0	1200	1200	0
3/18/2025 17:15	60801	BUCK_T1	39	22	-17	0.21	0.18	-0.03	-0.5	-0.5	0	0	0	0	0	0
3/18/2025 17:15	60201	ATGL_T2	55	8	-47	0.19	0.11	-0.08	-0.08	0.01	0	0	0	0	0	0
3/18/2025 17:16	60801	BUCK_T1	39	22	-17	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
3/18/2025 17:16	12001	HATF_T1	0	0	0	0	0	0	0.76	0.7	1	1	0	600	600	0
3/18/2025 17:16	60803	BUCK_T1	14	7	-7	0.26	0.16	-0.1	0	0	0	0	0	0	0	0
3/18/2025 17:17	16702	MACK_T1	0	0	0	0	0	0	-1.1	-1.09	0	0	0	0	0	0
3/18/2025 17:17	17804	GILB_T2	2	1	-1	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
3/18/2025 17:17	60801	BUCK_T1	39	22	-17	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
3/18/2025 17:17	60803	BUCK_T1	14	7	-7	0.26	0.16	-0.1	-0.56	-0.55	1	1	0	600	600	0
3/18/2025 17:17	17805	GILB_T2	0	0	0	0	0	0	0.05	0.14	0	0	0	0	0	0
3/18/2025 17:18	12604	MACA_T1	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
3/18/2025 17:18	44701	MUNC_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/18/2025 17:18	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 17:18	54505	ENOL_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
3/18/2025 17:18	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 17:18	12605	MACA_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/18/2025 17:18	54503	ENOL_T2	0	0	0	0	0	-1	-0.74	2	2	0	0	1200	1200	0
3/18/2025 17:18	12601	MACA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/18/2025 17:19	44703	MUNC_T2	0	0	0	0	0	0	0.36	0.31	0	0	0	0	0	0
3/18/2025 17:19	23403	HONE_T1	95	47	-48	0.18	0.15	-0.03	-0.8	-0.81	0	0	0	0	0	0
3/18/2025 17:19	12605	MACA_T1	1	1	0	0.3	0.1	-0.2	0.16	0.17	0	0	0	0	0	0
3/18/2025 17:19	12604	MACA_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
3/18/2025 17:19	46504	LOHA_T1	2	2	0	0.95	0.4	-0.55	0	0	0	0	0	0	0	0
3/18/2025 17:19	44701	MUNC_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/18/2025 17:19	47802	MOCA_T2	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
3/18/2025 17:19	54503	ENOL_T2	0	0	0	0	0	0	-0.5	-0.37	1	1	0	600	600	0
3/18/2025 17:19	12602	MACA_T1	0	0	0	0	0	0	-0.44	-0.41	0	0	0	0	0	0
3/18/2025 17:19	12603	MACA_T1	0	0	0	0	0	0	-1.81	-1.71	0	0	0	0	0	0
3/18/2025 17:19	54505	ENOL_T2	1	1	0	0.5	0.2	-0.3	-4.32	-4.23	3	3	0	1800	1800	0
3/18/2025 17:19	12601	MACA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/18/2025 17:19	12003	HATF_T1	0	0	0	0	0	0	1.2	1.25	0	0	0	0	0	0
3/18/2025 17:19	17804	GILB_T2	2	1	-1	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
3/18/2025 17:19	23404	HONE_T1	70	44	-26	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
3/18/2025 17:19	17805	GILB_T2	0	0	0	0	0	0	0.05	0.14	0	0	0	0	0	0
3/18/2025 17:19	46506	LOHA_T1	3	3	0	4.93	4.73	-0.2	-0.18	-0.16	0	0	0	0	0	0
3/18/2025 17:19	54502	ENOL_T2	0	1	1	0	0.1	0.1	-2.16	-2.08	1	1	0	600	600	0
3/18/2025 17:19	16702	MACK_T1	0	0	0	0	0	0	-2.2	-2.18	0	0	0	0	0	0
3/18/2025 17:20	10102	ALLE_T2	12	1	-11	0.6	6.3	5.7	0	0	0	0	0	0	0	0
3/18/2025 17:20	12602	MACA_T1	0	0	0	0	0	0	-0.44	-0.41	0	0	0	0	0	0
3/18/2025 17:20	54503	ENOL_T2	0	0	0	0	0	0	-0.5	-0.37	1	1	0	600	600	0
3/18/2025 17:20	12601	MACA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/18/2025 17:20	12604	MACA_T1	0	0	0	0	0	0	0.19	0.19	0	0	0	0	0	0
3/18/2025 17:20	12605	MACA_T1	1	1	0	0.3	0.1	-0.2	0.32	0.34	0	0	0	0	0	0
3/18/2025 17:20	44701	MUNC_T2	1	0	-1	0.3	0	-0.3	-2.86	-2.82	0	0	0	0	0	0
3/18/2025 17:20	12001	HATF_T1	0	0	0	0	0	0	1.51	1.4	2	2	0	1200	1200	0
3/18/2025 17:20	17805	GILB_T2	0	0	0	0	0	0	0.05	0.14	0	0	0	0	0	0
3/18/2025 17:20	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/18/2025 17:20	54505	ENOL_T2	1	1	0	0.5	0.2	-0.3	-1.44	-1.41	1	1	0	600	600	0
3/18/2025 17:20	46504	LOHA_T1	2	2	0	0.95	0.4	-0.55	0	0	0	0	0	0	0	0
3/18/2025 17:20	17804	GILB_T2	2	1	-1	0.55	0.1	-0.45	0	0	0	0	0	0	0	0
3/18/2025 17:20	10203	ALLE_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 17:20	54502	ENOL_T2	0	1	1	0	0.1	0.1	-4.31	-4.16	2	2	0	1200	1200	0
3/18/2025 17:20	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 17:20	46506	LOHA_T1	3	3	0	4.93	4.73	-0.2	0	0	0	0	0	0	0	0
3/18/2025 17:21	64904	MILL_T1	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
3/18/2025 17:21	54503	ENOL_T2	0	0	0	0	0	0	-2	-1.49	4	4	0	2400	2400	0
3/18/2025 17:21	64901	MILL_T1	16	0	-16	0.12	0	-0.12	0	0	0	0	0	0	0	0
3/18/2025 17:21	46506	LOHA_T1	3	3	0	4.93	4.73	-0.2	-0.16	-0.14	0	0	0	0	0	0
3/18/2025 17:21	10102	ALLE_T2	12	1	-11	0.6	6.3	5.7	0	0	0	0	0	0	0	0
3/18/2025 17:21	47101	MARL_T1	0	0	0	0	0	0	-2.58	-2.66	0	0	0	0	0	0
3/18/2025 17:21	46502	LOHA_T1	0	0	0	0	0	0	-1.4	-1.41	1	1	0	1200	1200	0
3/18/2025 17:21	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 17:21	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 17:21	54501	ENOL_T2	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
3/18/2025 17:21	46504	LOHA_T1	2	2	0	0.95	0.4	-0.55	0	0	0	0	0	0	0	0
3/18/2025 17:21	10203	ALLE_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 17:21	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
3/18/2025 17:21	54505	ENOL_T2	1	1	0	0.5	0.2	-0.3	-4.32	-4.23	3	3	0	1800	1800	0
3/18/2025 17:22	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 17:22	54505	ENOL_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
3/18/2025 17:22	12601	MACA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/18/2025 17:22	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 17:22	57306	MOAL_T2	0	0	0	0	0	0	-3.31	-3.31	1	1	0	1200	1200	0
3/18/2025 17:22	57303	MOAL_T2	1	1	0	7.1	7.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 17:22	10102	ALLE_T2	12	1	-11	0.6	6.3	5.7	0	0	0	0	0	0	0	0
3/18/2025 17:22	12606	MACA_T1	0	0	0	0	0	0	0.6	0.58	0	0	0	0	0	0
3/18/2025 17:22	54503	ENOL_T2	0	0	0	0	0	0	-0.37	-0.45	1	1	0	600	600	0
3/18/2025 17:22	16702	MACK_T1	0	0	0	0	0	0	-1.09	-1.09	0	0	0	0	0	0
3/18/2025 17:22	12605	MACA_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/18/2025 17:22	10203	ALLE_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 17:22	57301	MOAL_T2	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/18/2025 17:22	57304	MOAL_T2	2	1	-1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/18/2025 17:23	61304	EARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 17:23	54505	ENOL_T2	1	1	0	0.5	0.2	-0.3	-4.23	-4.23	3	3	0	1800	1800	0
3/18/2025 17:23	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 17:23	61303	EARL_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
3/18/2025 17:24	12601	MACA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/18/2025 17:24	12602	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 17:24	10203	ALLE_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 17:24	46506	LOHA_T1	3	3	0	4.93	4.73	-0.2	-0.16	-0.14	0	0	0	0	0	0
3/18/2025 17:24	12606	MACA_T1	0	0	0	0	0	0	1.2	1.16	0	0	0	0	0	0
3/18/2025 17:24	10102	ALLE_T2	12	1	-11	0.6	6.3	5.7	0	0	0	0	0	0	0	0
3/18/2025 17:24	46504	LOHA_T1	2	2	0	0.95	0.4	-0.55	0	0	0	0	0	0	0	0
3/18/2025 17:24	12605	MACA_T1	1	1	0	0.3	0.1	-0.2	0.17	0.18	0	0	0	0	0	0
3/18/2025 17:24	12604	MACA_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
3/18/2025 17:24	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 17:24	16702	MACK_T1	0	0	0	0	0	0	-1.09	-1.09	0	0	0	0	0	0
3/18/2025 17:25	54505	ENOL_T2	1	1	0	0.5	0.2	-0.3	-1.41	-1.41	1	1	0	600	600	0
3/18/2025 17:25	49804	UNIV_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/18/2025 17:25	61306	EARL_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
3/18/2025 17:25	12601	MACA_T1	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/18/2025 17:25	10203	ALLE_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 17:25	16201	POFA_T2	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/18/2025 17:25	49803	UNIV_T1	1	0	-1	4.6	4.8	0.2	-1.29	-1.26	0	0	0	0	0	0
3/18/2025 17:25	47101	MARL_T1	0	0	0	0	0	0	-1.29	-1.33	0	0	0	0	0	0
3/18/2025 17:25	61304	EARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 17:25	12604	MACA_T1	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
3/18/2025 17:25	54502	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 17:25	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 17:25	10102	ALLE_T2	12	1	-11	0.6	6.3	5.7	0	0	0	0	0	0	0	0
3/18/2025 17:25	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 17:25	12605	MACA_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/18/2025 17:26	61304	EARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 17:26	62105	ELAN_T1	0	0	0	0	0	0	0.31	0.39	0	0	0	0	0	0
3/18/2025 17:26	61303	EARL_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
3/18/2025 17:26	45403	WBLO_T1	0	0	0	0	0	0	-0.8	-0.8	3	3	0	3600	3600	0
3/18/2025 17:26	43302	WATS_T2	4	4	0	0.68	0.5	-0.18	0	0	0	0	0	0	0	0
3/18/2025 17:26	50834	WALN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 17:26	43301	WATS_T2	1	0	-1	0.2	0	-0.2	0.22	0.18	0	0	0	0	0	0
3/18/2025 17:27	16201	POFA_T2	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/18/2025 17:27	61304	EARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 17:27	20105	AVOC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 17:27	13801	SALI_T1	0	0	0	0	0	0	0.71	0.72	0	0	0	0	0	0
3/18/2025 17:27	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 17:29	41305	FISH_T1	14	15	1	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
3/18/2025 17:29	49803	UNIV_T1	1	1	0	4.6	4.8	0.2	-1.29	-1.26	0	0	0	0	0	0
3/18/2025 17:29	41303	FISH_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
3/18/2025 17:29	49804	UNIV_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/18/2025 17:29	46203	DANV_T2	82	63	-19	0.34	0.29	-0.05	0.05	0.06	0	0	0	0	0	0
3/18/2025 17:29	41301	FISH_T1	124	147	23	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
3/18/2025 17:30	21705	SUBU_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
3/18/2025 17:30	41303	FISH_T1	0	0	0	0	0	0	-0.32	-0.32	0	0	0	0	0	0
3/18/2025 17:30	41305	FISH_T1	14	7	-7	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
3/18/2025 17:30	41301	FISH_T1	143	86	-57	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
3/18/2025 17:30	20103	AVOC_T1	0	0	0	0	0	0	-0.33	-0.34	0	0	0	0	0	0
3/18/2025 17:30	46203	DANV_T2	51	60	9	0.26	0.27	0.01	0.05	0.06	0	0	0	0	0	0
3/18/2025 17:30	21703	SUBU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 17:30	21701	SUBU_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
3/18/2025 17:30	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 17:31	49804	UNIV_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 17:31	49803	UNIV_T1	1	1	0	4.8	5	0.2	-1.29	-1.26	0	0	0	0	0	0
3/18/2025 17:32	41301	FISH_T1	143	86	-57	0.21	0.2	-0.01	0	0	0	0	0	0	0	0
3/18/2025 17:32	41304	FISH_T2	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 17:32	41305	FISH_T1	14	7	-7	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
3/18/2025 17:33	58705	ROSE_T2	5	5	0	3.42	3.5	0.08	0	0	0	0	0	0	0	0
3/18/2025 17:33	58701	ROSE_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
3/18/2025 17:35	13303	ORVI_T1	0	0	0	0	0	0	0.77	0.77	0	0	0	0	0	0
3/18/2025 17:36	13303	ORVI_T1	0	0	0	0	0	0	0.77	0.76	0	0	0	0	0	0
3/18/2025 17:39	44201	POIN_T1	7	16	9	0.11	0.11	0	-2.36	-2.35	1	1	0	1200	1200	0
3/18/2025 17:40	44201	POIN_T1	7	16	9	0.11	0.11	0	-2.36	-2.35	1	1	0	1200	1200	0
3/18/2025 17:40	41201	KENM_T2	3	5	2	0.13	0.12	-0.01	0	0	0	0	0	0	0	0
3/18/2025 17:40	41205	KENM_T2	0	0	0	0	0	0	-0.12	-0.1	0	0	0	0	0	0
3/18/2025 17:40	41202	KENM_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/18/2025 17:40	44203	POIN_T2	0	0	0	0	0	0	-0.88	-0.8	2	2	0	2100	2100	0
3/18/2025 17:41	44201	POIN_T1	7	16	9	0.11	0.11	0	-2.36	-2.35	1	1	0	1200	1200	0
3/18/2025 17:42	44201	POIN_T1	7	16	9	0.11	0.11	0	-4.71	-4.69	2	2	0	2400	2400	0
3/18/2025 17:46	40201	BEGA_T2	4	3	-1	0.23	0.13	-0.1	0	0	0	0	0	0	0	0
3/18/2025 17:58	57401	SPAN_T1	2	2	0	1.05	1.15	0.1	-0.06	0.23	0	0	0	0	0	0
3/18/2025 17:59	64701	LITI_T1	0	0	0	0	0	0	0.17	0.08	0	0	0	0	0	0
3/18/2025 18:05	41201	KENM_T2	5	0	-5	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 18:05	41202	KENM_T2	1	1	0	0.9	0.5	-0.4	0	0	0	0	0	0	0	0
3/18/2025 18:06	43402	BENT_T1	0	0	0	0	0	0	-1.02	-1.03	1	1	0	900	900	0
3/18/2025 18:06	43202	MVIL_T2	7	9	2	0.17	0.18	0.01	-0.74	-0.74	0	0	0	0	0	0
3/18/2025 18:07	43202	MVIL_T2	7	9	2	0.17	0.18	0.01	-0.74	-0.74	0	0	0	0	0	0
3/18/2025 18:11	44202	POIN_T2	0	0	0	0	0	0	-0.72	-0.66	1	1	0	1200	1200	0
3/18/2025 18:12	44202	POIN_T2	0	0	0	0	0	0	-1.44	-1.32	2	2	0	2400	2400	0
3/18/2025 18:15	17802	GILB_T1	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
3/18/2025 18:18	11801	FRAN_T2	0	0	0	0	0	0	-0.01	-0.08	0	0	0	0	0	0
3/18/2025 18:23	63602	LETO_T1	0	0	0	0	0	0	-0.59	-0.6	0	0	0	0	0	0
3/18/2025 18:24	44901	SCOT_T2	0	6	6	0	0.13	0.13	0	0	0	0	0	0	0	0
3/18/2025 18:24	44902	SCOT_T2	431	412	-19	0.25	0.25	0	-0.96	-1	0	0	0	0	0	0
3/18/2025 18:27	44203	POIN_T2	0	0	0	0	0	0	-0.81	-0.87	2	2	0	2100	2100	0
3/18/2025 18:33	63501	HEID_TBK1-2	1	10	9	0.7	0.18	-0.52	0.37	0.41	0	0	0	0	0	0
3/18/2025 18:40	59202	THOM_T1	214	253	39	0.26	0.28	0.02	0	0	0	0	0	0	0	0
3/18/2025 18:40	59201	THOM_T1	16	18	2	0.36	0.37	0.01	0	0	0	0	0	0	0	0
3/18/2025 18:45	59201	THOM_T1	17	15	-2	0.38	0.34	-0.04	0	0	0	0	0	0	0	0
3/18/2025 18:45	59202	THOM_T1	236	200	-36	0.29	0.23	-0.06	0	0	0	0	0	0	0	0
3/18/2025 19:02	67604	WARW_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
3/18/2025 19:02	67605	WARW_T1	16	16	0	0.52	0.44	-0.08	0	0	0	0	0	0	0	0
3/18/2025 20:09	12605	MACA_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
3/18/2025 20:21	50502	MECH_T1	1	2	1	1.5	0.85	-0.65	0	0	0	0	0	0	0	0
3/18/2025 20:21	50501	MECH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 20:22	50506	MECH_T1	0	0	0	0	0	0	-0.23	-0.23	0	0	0	0	0	0
3/18/2025 20:22	50502	MECH_T1	1	2	1	1.5	0.85	-0.65	0	0	0	0	0	0	0	0
3/18/2025 20:22	54601	SUMM_T2	0	1	1	0	0.1	0.1	-1.9	-1.91	2	2	0	2100	2100	0
3/18/2025 20:24	55105	WERT_T1	0	0	0	0	0	0	-0.82	-0.81	1	1	0	900	900	0
3/18/2025 20:25	50501	MECH_T1	0	0	0	0	0	0	-0.87	-0.65	0	0	0	0	0	0
3/18/2025 20:25	50502	MECH_T1	1	2	1	1.5	0.85	-0.65	0	0	0	0	0	0	0	0
3/18/2025 20:25	55101	WERT_T1	0	0	0	0	0	0	-1.56	-1.67	2	2	0	1500	1500	0
3/18/2025 20:26	55101	WERT_T1	0	0	0	0	0	0	-1.56	-1.67	2	2	0	1500	1500	0
3/18/2025 20:38	61102	BERK_T5	0	0	0	0	0	0	0.4	0.42	1	1	0	300	300	0
3/18/2025 20:44	58701	ROSE_T2	0	0	0	0	0	0	0.32	0.34	0	0	0	0	0	0
3/18/2025 20:44	59402	RFLD_T2	1	3	2	0.4	0.3	-0.1	-0.45	-0.4	0	0	0	0	0	0
3/18/2025 20:44	58705	ROSE_T2	5	5	0	3.12	3.4	0.28	0	0	0	0	0	0	0	0
3/18/2025 20:45	10903	COOP_T2	0	6	6	0	0.12	0.12	0	0	0	0	0	0	0	0
3/18/2025 20:48	65207	PRIN_T4	2	3	1	2.65	1.97	-0.68	0	0	0	0	0	0	0	0
3/18/2025 20:48	65206	PRIN_T4	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
3/18/2025 21:04	41305	FISH_T1	15	6	-9	0.12	0.12	0	0	0	0	0	0	0	0	0
3/18/2025 21:04	41301	FISH_T1	121	103	-18	0.19	0.18	-0.01	-0.35	-0.35	0	0	0	0	0	0
3/18/2025 21:06	52004	LING_T2	2	2	0	6.4	6.45	0.05	0.12	0.11	0	0	0	0	0	0
3/18/2025 21:06	52006	LING_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
3/18/2025 21:06	52001	LING_T1	0	0	0	0	0	0	0.08	0.03	0	0	0	0	0	0
3/18/2025 21:06	52002	LING_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/18/2025 21:09	52002	LING_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/18/2025 21:09	52006	LING_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
3/18/2025 21:09	52004	LING_T2	2	2	0	6.4	6.45	0.05	0.11	0.1	0	0	0	0	0	0
3/18/2025 21:11	21206	ECAR_T2	1	1	0	7.6	7.9	0.3	1.18	1.19	0	0	0	0	0	0
3/18/2025 21:11	63602	LETO_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
3/18/2025 21:11	52006	LING_T2	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
3/18/2025 21:11	52002	LING_T2	1	0	-1	0.3	0	-0.3	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/18/2025 21:11	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:11	20402	ASHF_T2	5	2	-3	0.34	0.15	-0.19	0	0	0	0	0	0	0	0
3/18/2025 21:11	52004	LING_T2	2	2	0	6.4	6.45	0.05	0.11	0.1	0	0	0	0	0	0
3/18/2025 21:11	20401	ASHF_T2	7	3	-4	0.24	0.23	-0.01	0.3	0.22	0	0	0	0	0	0
3/18/2025 21:12	12606	MACA_T1	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
3/18/2025 21:12	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:12	61303	EARL_T1	0	0	0	0	0	0	0.21	0.21	0	0	0	0	0	0
3/18/2025 21:12	66903	SHIL_T2	0	0	0	0	0	0	-1.3	-1.3	0	0	0	0	0	0
3/18/2025 21:12	15603	NSTR_T2	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
3/18/2025 21:12	15601	NSTR_T2	3	1	-2	0.43	0.2	-0.23	0	0	0	0	0	0	0	0
3/18/2025 21:13	17805	GILB_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
3/18/2025 21:14	61701	ELIZ_T1	1	1	0	5.8	6.1	0.3	0.07	0.02	0	0	0	0	0	0
3/18/2025 21:14	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:14	12604	MACA_T1	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
3/18/2025 21:14	10101	ALLE_T3	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:14	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:15	10805	CHIH_T2	1	1	0	8	7.9	-0.1	-1.45	-1.31	1	1	0	600	600	0
3/18/2025 21:15	15702	TANN_T2	0	0	0	0	0	0	-0.51	-0.52	0	0	0	0	0	0
3/18/2025 21:15	14801	TREI_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
3/18/2025 21:15	12003	HATF_T1	0	0	0	0	0	0	1.18	1.16	0	0	0	0	0	0
3/18/2025 21:15	41301	FISH_T1	94	184	90	0.18	0.19	0.01	-0.35	-0.36	0	0	0	0	0	0
3/18/2025 21:15	41305	FISH_T1	6	22	16	0.12	0.13	0.01	0	0	0	0	0	0	0	0
3/18/2025 21:15	67502	WEWI_T2	36	10	-26	0.14	0.11	-0.03	0	0	0	0	0	0	0	0
3/18/2025 21:15	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:15	11405	FARM_T1	1	1	0	3.7	3.3	-0.4	-1.26	-1.24	1	1	0	1200	1200	0
3/18/2025 21:15	14802	TREI_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
3/18/2025 21:15	15601	NSTR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 21:15	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
3/18/2025 21:15	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:16	45303	WBER_T2	2	2	0	4.05	3.95	-0.1	-0.33	-0.36	0	0	0	0	0	0
3/18/2025 21:16	57401	SPAN_T1	2	2	0	0.95	0.95	0	0.24	0.22	0	0	0	0	0	0
3/18/2025 21:16	15601	NSTR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 21:16	14501	SCHO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:16	20602	GRWO_T2	18	35	17	0.11	0.21	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:16	23202	HIRU_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:16	16302	ALPA_T2	0	0	0	0	0	0	1.44	1.71	0	0	0	0	0	0
3/18/2025 21:16	48302	ORWI_T2	153	178	25	0.36	0.38	0.02	-0.18	-0.2	0	0	0	0	0	0
3/18/2025 21:16	66505	SMAN_T2	3	3	0	1.5	1.63	0.13	-0.26	-0.48	1	1	0	900	900	0
3/18/2025 21:16	61306	EARL_T1	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
3/18/2025 21:16	20603	GRWO_T2	72	142	70	0.31	0.36	0.05	0.34	0.32	0	0	0	0	0	0
3/18/2025 21:16	40303	TAMA_T3	9	12	3	0.47	0.46	-0.01	0	0	0	0	0	0	0	0
3/18/2025 21:16	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/18/2025 21:16	67603	WARW_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
3/18/2025 21:16	44701	MUNC_T2	0	0	0	0	0	0	-1.44	-1.45	0	0	0	0	0	0
3/18/2025 21:16	63501	HEID_TBK1-2	33	35	2	0.27	0.25	-0.02	0.35	0.29	0	0	0	0	0	0
3/18/2025 21:16	44703	MUNC_T2	1	1	0	0.4	1.6	1.2	0	0	0	0	0	0	0	0
3/18/2025 21:16	12602	MACA_T1	0	0	0	0	0	0	-0.46	-0.48	0	0	0	0	0	0
3/18/2025 21:16	17802	GILB_T1	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
3/18/2025 21:16	44203	POIN_T2	0	0	0	0	0	0	-0.92	-0.84	2	2	0	2100	2100	0
3/18/2025 21:16	48303	ORWI_T2	133	230	97	0.18	0.24	0.06	0	0	0	0	0	0	0	0
3/18/2025 21:16	17805	GILB_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
3/18/2025 21:16	12605	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:16	40301	TAMA_T3	12	19	7	0.28	0.33	0.05	1.36	1.14	2	2	0	1800	1800	0
3/18/2025 21:16	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:16	40302	TAMA_T3	31	45	14	0.62	0.61	-0.01	0	0	0	0	0	0	0	0
3/18/2025 21:16	67605	WARW_T1	18	29	11	0.52	0.61	0.09	0	0	0	0	0	0	0	0
3/18/2025 21:17	20602	GRWO_T2	18	35	17	0.11	0.21	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:17	47401	PENS_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
3/18/2025 21:17	16101	BING_T2	0	0	0	0	0	0	0.26	0.27	0	0	0	0	0	0
3/18/2025 21:17	20403	ASHF_T2	0	0	0	0	0	0	0.1	0.17	0	0	0	0	0	0
3/18/2025 21:17	12001	HATF_T1	0	0	0	0	0	0	0.9	0.96	1	1	0	600	600	0
3/18/2025 21:17	67605	WARW_T1	18	29	11	0.52	0.61	0.09	0	0	0	0	0	0	0	0
3/18/2025 21:17	67603	WARW_T1	0	0	0	0	0	0	-0.13	-0.14	0	0	0	0	0	0
3/18/2025 21:17	12605	MACA_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
3/18/2025 21:17	20401	ASHF_T2	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
3/18/2025 21:17	20402	ASHF_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/18/2025 21:17	61102	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 21:17	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/18/2025 21:17	20603	GRWO_T2	72	142	70	0.31	0.36	0.05	0	0	0	0	0	0	0	0
3/18/2025 21:17	64701	LITI_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/18/2025 21:17	46002	BERW_T2	0	0	0	0	0	0	-0.31	-0.3	0	0	0	0	0	0
3/18/2025 21:17	20601	GRWO_T2	0	0	0	0	0	0	0.78	0.75	0	0	0	0	0	0
3/18/2025 21:17	17805	GILB_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
3/18/2025 21:17	61101	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:17	15602	NSTR_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/18/2025 21:17	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:17	16102	BING_T2	0	8	8	0	0.14	0.14	-0.25	-0.22	0	0	0	0	0	0
3/18/2025 21:17	10801	CHIH_T1	0	0	0	0	0	0	-1.71	-1.73	2	2	0	1500	1500	0
3/18/2025 21:17	11901	ETEX_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
3/18/2025 21:17	17802	GILB_T1	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
3/18/2025 21:17	15601	NSTR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 21:17	10102	ALLE_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:17	47101	MARL_T1	0	1	1	0	0	0	-1.2	-1.3	0	0	0	0	0	0
3/18/2025 21:18	20105	AVOC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:18	44201	POIN_T1	0	0	0	0	0	0	-2.34	-2.34	1	1	0	1200	1200	0
3/18/2025 21:18	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:18	41901	REED_T1	8	9	1	0.35	0.51	0.16	0	0	0	0	0	0	0	0
3/18/2025 21:18	24101	EHAZ_T1	12	14	2	0.73	0.43	-0.3	0	0	0	0	0	0	0	0
3/18/2025 21:18	64204	KINZ_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
3/18/2025 21:18	14801	TREI_T2	0	0	0	0	0	0	0.33	0.32	0	0	0	0	0	0
3/18/2025 21:18	40201	BEGA_T2	5	7	2	0.46	0.43	-0.03	0	0	0	0	0	0	0	0
3/18/2025 21:18	41304	FISH_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:18	14802	TREI_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
3/18/2025 21:18	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:18	63501	HEID_TBK1-2	33	35	2	0.27	0.25	-0.02	0.35	0.29	0	0	0	0	0	0
3/18/2025 21:18	24105	EHAZ_T1	4	4	0	5.9	5.65	-0.25	0	0	0	0	0	0	0	0
3/18/2025 21:18	24102	EHAZ_T1	4	4	0	1.2	0.48	-0.72	-0.46	-0.41	0	0	0	0	0	0
3/18/2025 21:18	51304	WIND_T2	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
3/18/2025 21:18	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:18	60803	BUCK_T1	4	9	5	0.13	0.13	0	-0.59	-0.57	1	1	0	600	600	0
3/18/2025 21:18	44802	EDAN_T2	0	0	0	0	0	0	-1.04	-1.05	0	0	0	0	0	0
3/18/2025 21:18	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:18	60801	BUCK_T1	13	22	9	0.15	0.18	0.03	0	0	0	0	0	0	0	0
3/18/2025 21:18	64203	KINZ_T1	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0
3/18/2025 21:18	66505	SMAN_T2	3	3	0	1.5	1.63	0.13	0	0	0	0	0	0	0	0
3/18/2025 21:18	66504	SMAN_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
3/18/2025 21:18	66902	SHIL_T2	0	0	0	0	0	0	-1.05	-1.09	0	0	0	0	0	0
3/18/2025 21:18	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:18	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:19	43801	SWIL_T1	9	6	-3	0.86	1.17	0.31	0	0	0	0	0	0	0	0
3/18/2025 21:19	17802	GILB_T1	0	0	0	0	0	0	0.05	0.02	0	0	0	0	0	0
3/18/2025 21:19	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:19	10102	ALLE_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:19	63804	HEMP_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
3/18/2025 21:19	40303	TAMA_T3	9	12	3	0.47	0.46	-0.01	2.44	2.4	0	0	0	0	0	0
3/18/2025 21:19	43802	SWIL_T1	0	0	0	0	0	0	-0.28	-0.3	1	1	0	600	600	0
3/18/2025 21:19	64702	LITI_T2	0	0	0	0	0	0	-0.85	-0.82	0	0	0	0	0	0
3/18/2025 21:19	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/18/2025 21:19	10101	ALLE_T3	2	2	0	5.95	3.85	-2.1	0	0	0	0	0	0	0	0
3/18/2025 21:19	46001	BERW_T1	0	0	0	0	0	0	0.54	0.56	0	0	0	0	0	0
3/18/2025 21:19	16102	BING_T2	0	8	8	0	0.14	0.14	-0.25	-0.22	0	0	0	0	0	0
3/18/2025 21:19	40301	TAMA_T3	12	19	7	0.28	0.33	0.05	0	0	0	0	0	0	0	0
3/18/2025 21:19	67605	WARW_T1	18	29	11	0.52	0.61	0.09	-1.17	-1.19	0	0	0	0	0	0
3/18/2025 21:19	63803	HEMP_T1	0	0	0	0	0	0	0.52	0.54	0	0	0	0	0	0
3/18/2025 21:19	60803	BUCK_T1	4	9	5	0.13	0.13	0	0	0	0	0	0	0	0	0
3/18/2025 21:19	13303	ORVI_T1	0	0	0	0	0	0	0.79	0.79	0	0	0	0	0	0
3/18/2025 21:19	67106	SPRI_T2	0	0	0	0	0	0	-1.34	-1.34	1	1	0	900	900	0
3/18/2025 21:19	13103	NHAM_T2	0	0	0	0	0	0	-1.81	-1.8	1	1	0	600	600	0
3/18/2025 21:19	40302	TAMA_T3	31	45	14	0.62	0.61	-0.01	0	0	0	0	0	0	0	0
3/18/2025 21:19	61101	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:19	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:19	11904	ETEX_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
3/18/2025 21:19	42701	AUGU_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:19	60801	BUCK_T1	13	22	9	0.15	0.18	0.03	-0.28	-0.28	0	0	0	0	0	0
3/18/2025 21:19	61102	BERK_T5	0	1	1	0	0.2	0.2	0.95	0.98	2	2	0	600	600	0
3/18/2025 21:19	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:19	44703	MUNC_T2	1	1	0	0.4	1.6	1.2	0	0	0	0	0	0	0	0
3/18/2025 21:20	12606	MACA_T1	0	0	0	0	0	0	0.59	0.57	0	0	0	0	0	0
3/18/2025 21:20	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:20	13302	ORVI_T2	9	10	1	0.12	0.17	0.05	1.38	1.38	0	0	0	0	0	0
3/18/2025 21:20	13905	SEID_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
3/18/2025 21:20	67603	WARW_T1	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
3/18/2025 21:20	67605	WARW_T1	18	29	11	0.52	0.61	0.09	0	0	0	0	0	0	0	0
3/18/2025 21:20	54502	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:20	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:20	61304	EARL_T1	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
3/18/2025 21:20	63804	HEMP_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
3/18/2025 21:20	64801	MONE_T2	82	126	44	0.3	0.35	0.05	0.09	0.09	0	0	0	0	0	0
3/18/2025 21:20	47101	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:20	11904	ETEX_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
3/18/2025 21:20	61101	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:20	54505	ENOL_T2	1	1	0	0.6	0.6	0	-1.41	-1.4	1	1	0	600	600	0
3/18/2025 21:20	14802	TREI_T2	0	0	0	0	0	0	0.29	0.27	0	0	0	0	0	0
3/18/2025 21:20	61701	ELIZ_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:20	61102	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 21:20	12605	MACA_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
3/18/2025 21:20	47802	MOCA_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
3/18/2025 21:20	51305	WIND_T1	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
3/18/2025 21:20	17805	GILB_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
3/18/2025 21:20	47401	PENS_T1	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
3/18/2025 21:20	61301	EARL_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
3/18/2025 21:20	11901	ETEX_T2	0	0	0	0	0	0	0.25	0.27	0	0	0	0	0	0
3/18/2025 21:20	62106	ELAN_T1	8	27	19	0.11	0.14	0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/18/2025 21:20	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/18/2025 21:20	11403	FARM_T1	0	0	0	0	0	0	-0.31	-0.31	1	1	0	600	600	0
3/18/2025 21:20	16302	ALPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:20	44502	HAMI_T2	1	1	0	3.6	3.5	-0.1	0.01	0.02	0	0	0	0	0	0
3/18/2025 21:20	61703	ELIZ_T1	0	0	0	0	0	0	-2.58	-2.62	2	2	0	2100	2100	0
3/18/2025 21:20	11405	FARM_T1	1	1	0	3.7	3.3	-0.4	0	0	0	0	0	0	0	0
3/18/2025 21:20	62105	ELAN_T1	80	159	79	0.11	0.16	0.05	0	0	0	0	0	0	0	0
3/18/2025 21:20	43801	SWIL_T1	9	6	-3	0.86	1.17	0.31	0	0	0	0	0	0	0	0
3/18/2025 21:20	10102	ALLE_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:20	64802	MONE_T2	63	74	11	0.24	0.25	0.01	0	0	0	0	0	0	0	0
3/18/2025 21:20	57401	SPAN_T1	2	2	0	0.95	0.95	0	0.24	0.22	0	0	0	0	0	0
3/18/2025 21:20	14603	SWHI_T1	0	0	0	0	0	0	-0.84	-0.8	0	0	0	0	0	0
3/18/2025 21:20	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:20	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/18/2025 21:20	23203	HIRU_T2	0	0	0	0	0	0	-0.29	0	0	0	0	0	0	0
3/18/2025 21:20	67106	SPRI_T2	0	0	0	0	0	0	-1.34	-1.34	1	1	0	900	900	0
3/18/2025 21:20	62101	ELAN_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:20	47104	MARL_T1	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
3/18/2025 21:20	12604	MACA_T1	0	0	0	0	0	0	0.34	0.36	0	0	0	0	0	0
3/18/2025 21:20	13103	NHAM_T2	0	0	0	0	0	0	-1.81	-1.8	1	1	0	600	600	0
3/18/2025 21:20	23404	HONE_T1	5	1	-4	0.1	0.1	0	0	0	0	0	0	0	0	0
3/18/2025 21:20	67604	WARW_T1	0	0	0	0	0	0	1.53	1.53	0	0	0	0	0	0
3/18/2025 21:20	23403	HONE_T1	11	9	-2	0.11	0.13	0.02	-0.81	-0.79	0	0	0	0	0	0
3/18/2025 21:20	67401	WAKE_T2	0	3	3	0	0.1	0.1	-0.97	-0.96	0	0	0	0	0	0
3/18/2025 21:20	63501	HEID_TBK1-2	33	35	2	0.27	0.25	-0.02	0.7	0.58	0	0	0	0	0	0
3/18/2025 21:20	62103	ELAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/18/2025 21:20	63802	HEMP_T1	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
3/18/2025 21:20	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:20	61302	EARL_T1	0	0	0	0	0	0	0.01	-0.05	1	1	0	1200	1200	0
3/18/2025 21:20	11202	ELHE_T2	0	0	0	0	0	0	0.37	0.4	1	1	0	1200	1200	0
3/18/2025 21:20	14604	SWHI_T1	0	0	0	0	0	0	-0.07	-0.06	1	1	0	900	900	0
3/18/2025 21:21	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:21	53901	HALI_T2	1	1	0	0.7	1.3	0.6	-1.06	-1.08	0	0	0	0	0	0
3/18/2025 21:21	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:21	49803	UNIV_T1	1	1	0	5.5	5.5	0	-1.23	-1.27	0	0	0	0	0	0
3/18/2025 21:21	12603	MACA_T1	0	0	0	0	0	0	-1.86	-1.8	0	0	0	0	0	0
3/18/2025 21:21	64801	MONE_T2	82	126	44	0.3	0.35	0.05	0.09	0.16	0	0	0	0	0	0
3/18/2025 21:21	53903	HALI_T2	3	2	-1	1.23	1.7	0.47	-0.16	-0.19	0	0	0	0	0	0
3/18/2025 21:21	62103	ELAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/18/2025 21:21	57402	SPAN_T2	0	1	1	0	0.1	0.1	-0.61	-0.61	0	0	0	0	0	0
3/18/2025 21:21	62105	ELAN_T1	80	159	79	0.11	0.16	0.05	0.37	0.35	0	0	0	0	0	0
3/18/2025 21:21	20402	ASHF_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/18/2025 21:21	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:21	46001	BERW_T1	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
3/18/2025 21:21	20401	ASHF_T2	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
3/18/2025 21:21	62101	ELAN_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:21	47401	PENS_T1	0	0	0	0	0	0	0.61	0.63	0	0	0	0	0	0
3/18/2025 21:21	61102	BERK_T5	0	1	1	0	0.2	0.2	0.49	0.39	1	1	0	300	300	0
3/18/2025 21:21	64802	MONE_T2	63	74	11	0.24	0.25	0.01	0	0	0	0	0	0	0	0
3/18/2025 21:21	47101	MARL_T1	0	1	1	0	0	0	-1.3	-1.34	0	0	0	0	0	0
3/18/2025 21:21	11904	ETEX_T2	0	0	0	0	0	0	0.08	0.08	0	0	0	0	0	0
3/18/2025 21:21	24202	PROV_T4	0	0	0	0	0	0	-0.87	-0.87	1	1	0	1200	1200	0
3/18/2025 21:21	12604	MACA_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
3/18/2025 21:21	17805	GILB_T2	0	0	0	0	0	0	0.05	0.03	0	0	0	0	0	0
3/18/2025 21:21	42401	GIMA_T1	18	56	38	0.2	0.21	0.01	0	0	0	0	0	0	0	0
3/18/2025 21:21	21701	SUBU_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/18/2025 21:21	66505	SMAN_T2	3	3	0	1.5	1.63	0.13	-0.48	-0.51	1	1	0	900	900	0
3/18/2025 21:21	46002	BERW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:21	14601	SWHI_T1	0	0	0	0	0	0	-0.29	-0.29	0	0	0	0	0	0
3/18/2025 21:21	44703	MUNC_T2	1	1	0	0.4	1.6	1.2	0	0	0	0	0	0	0	0
3/18/2025 21:21	67402	WAKE_T2	0	0	0	0	0	0	0.24	0.18	0	0	0	0	0	0
3/18/2025 21:21	57403	SPAN_T1	0	0	0	0	0	0	-0.06	-0.07	0	0	0	0	0	0
3/18/2025 21:21	44202	POIN_T2	0	0	0	0	0	0	-0.68	-0.67	1	1	0	1200	1200	0
3/18/2025 21:21	62106	ELAN_T1	8	27	19	0.11	0.14	0.03	0	0	0	0	0	0	0	0
3/18/2025 21:21	41305	FISH_T1	6	22	16	0.12	0.13	0.01	0	0	0	0	0	0	0	0
3/18/2025 21:21	64901	MILL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:21	14801	TREI_T2	0	0	0	0	0	0	0.32	0.3	0	0	0	0	0	0
3/18/2025 21:21	45702	LIND_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:21	63602	LETO_T1	0	18	18	0	0.1	0.1	-0.62	-0.64	0	0	0	0	0	0
3/18/2025 21:21	43202	MVIL_T2	0	0	0	0	0	0	-0.74	-0.66	0	0	0	0	0	0
3/18/2025 21:21	59202	THOM_T1	255	318	63	0.35	0.44	0.09	0	0	0	0	0	0	0	0
3/18/2025 21:21	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:21	42902	MIDD_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
3/18/2025 21:21	46803	HEPB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:21	20103	AVOC_T1	0	0	0	0	0	0	-0.35	-0.34	0	0	0	0	0	0
3/18/2025 21:21	10801	CHHI_T1	0	0	0	0	0	0	-1.73	-1.74	2	2	0	1500	1500	0
3/18/2025 21:21	41303	FISH_T1	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
3/18/2025 21:21	55003	NEWP_T2	2	8	6	0.1	0.29	0.19	-0.31	-0.25	0	0	0	0	0	0
3/18/2025 21:21	61703	ELIZ_T1	0	0	0	0	0	0	-2.62	-2.65	2	2	0	2100	2100	0
3/18/2025 21:21	14603	SWHI_T1	0	0	0	0	0	0	-0.8	-0.84	0	0	0	0	0	0
3/18/2025 21:21	60201	ATGL_T2	182	261	79	0.32	0.34	0.02	-0.71	-0.89	0	0	0	0	0	0
3/18/2025 21:21	46004	BERW_T2	1	0	-1	0.7	0	-0.7	-0.63	-0.64	0	0	0	0	0	0
3/18/2025 21:21	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:21	43402	BENT_T1	0	0	0	0	0	0	-1.03	-1.03	1	1	0	900	900	0
3/18/2025 21:21	12602	MACA_T1	0	0	0	0	0	0	-0.48	-0.51	0	0	0	0	0	0
3/18/2025 21:21	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:21	61303	EARL_T1	0	0	0	0	0	0	0.21	0.16	0	0	0	0	0	0
3/18/2025 21:21	10101	ALLE_T3	2	2	0	5.95	3.85	-2.1	0	0	0	0	0	0	0	0
3/18/2025 21:21	61701	ELIZ_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:21	44502	HAMI_T2	1	1	0	3.6	3.5	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:21	54505	ENOL_T2	1	1	0	0.6	0.6	0	-5.64	-5.6	4	4	0	2400	2400	0
3/18/2025 21:21	20403	ASHF_T2	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
3/18/2025 21:21	45701	LIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:21	60803	BUCK_T1	4	9	5	0.13	0.13	0	-0.57	-0.59	1	1	0	600	600	0
3/18/2025 21:21	57203	ROSS_T1	61	99	38	0.11	0.11	0	0.27	0.27	0	0	0	0	0	0
3/18/2025 21:21	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:21	63601	LETO_T1	0	0	0	0	0	0	1.32	1.08	1	1	0	900	900	0
3/18/2025 21:21	14802	TREI_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
3/18/2025 21:21	52202	DEVO_T2	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
3/18/2025 21:21	67401	WAKE_T2	0	3	3	0	0.1	0.1	-0.96	-0.98	0	0	0	0	0	0
3/18/2025 21:21	53902	HALI_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
3/18/2025 21:21	57201	ROSS_T1	182	235	53	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
3/18/2025 21:21	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:21	63501	HEID_TBK1-2	33	35	2	0.27	0.25	-0.02	0.29	0.24	0	0	0	0	0	0
3/18/2025 21:21	44601	SALE_T2	0	0	0	0	0	0	-0.26	-0.28	0	0	0	0	0	0
3/18/2025 21:21	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:21	21705	SUBU_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:21	10102	ALLE_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:21	59201	THOM_T1	21	21	0	0.57	0.6	0.03	0	0	0	0	0	0	0	0
3/18/2025 21:21	61101	BERK_T5	0	1	1	0	0.1	0.1	-3.18	-3.15	0	0	0	0	0	0
3/18/2025 21:21	66901	SHIL_T2	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
3/18/2025 21:21	41301	FISH_T1	94	184	90	0.18	0.19	0.01	0	0	0	0	0	0	0	0
3/18/2025 21:21	46801	HEPB_T2	2	2	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
3/18/2025 21:21	60801	BUCK_T1	13	22	9	0.15	0.18	0.03	-0.28	-0.3	0	0	0	0	0	0
3/18/2025 21:21	64904	MILL_T1	0	0	0	0	0	0	0.35	0.41	0	0	0	0	0	0
3/18/2025 21:21	57401	SPAN_T1	2	2	0	0.95	0.95	0	0.24	0.22	0	0	0	0	0	0
3/18/2025 21:21	54502	ENOL_T2	1	1	0	1	0.9	-0.1	-4.01	-4.26	2	2	0	1200	1200	0
3/18/2025 21:21	13303	ORVI_T1	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
3/18/2025 21:21	16302	ALPA_T2	0	0	0	0	0	0	1.14	0.9	0	0	0	0	0	0
3/18/2025 21:22	43801	SWIL_T1	9	6	-3	0.86	1.17	0.31	0	0	0	0	0	0	0	0
3/18/2025 21:22	57402	SPAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:22	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:22	44302	BEAV_T2	0	0	0	0	0	0	0.46	0.46	0	0	0	0	0	0
3/18/2025 21:22	20402	ASHF_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/18/2025 21:22	24206	PROV_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:22	55001	NEWP_T1	1	1	0	0.6	0.3	-0.3	-0.2	-0.22	0	0	0	0	0	0
3/18/2025 21:22	15601	NSTR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/18/2025 21:22	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
3/18/2025 21:22	67401	WAKE_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:22	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:22	20401	ASHF_T2	2	3	1	0.15	0.23	0.08	0.22	0.19	0	0	0	0	0	0
3/18/2025 21:22	51301	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:22	51302	WIND_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
3/18/2025 21:22	61102	BERK_T5	0	1	1	0	0.2	0.2	0.49	0.39	1	1	0	300	300	0
3/18/2025 21:22	57403	SPAN_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
3/18/2025 21:22	63501	HEID_TBK1-2	33	35	2	0.27	0.25	-0.02	0.58	0.48	0	0	0	0	0	0
3/18/2025 21:22	57404	SPAN_T2	0	0	0	0	0	0	-0.14	-0.12	1	1	0	1200	1200	0
3/18/2025 21:22	43301	WATS_T2	0	0	0	0	0	0	0.18	0.14	0	0	0	0	0	0
3/18/2025 21:22	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:22	55002	NEWP_T1	6	6	0	0.9	1.15	0.25	-0.68	-0.64	0	0	0	0	0	0
3/18/2025 21:22	16102	BING_T2	0	8	8	0	0.14	0.14	0	0	0	0	0	0	0	0
3/18/2025 21:22	45303	WBER_T2	2	2	0	4.05	3.95	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:22	67604	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:22	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:22	64204	KINZ_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
3/18/2025 21:22	53902	HALI_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
3/18/2025 21:22	57205	ROSS_T1	0	0	0	0	0	0	0.06	0.04	0	0	0	0	0	0
3/18/2025 21:22	15702	TANN_T2	0	0	0	0	0	0	-0.52	-0.48	0	0	0	0	0	0
3/18/2025 21:22	11302	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:22	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:22	47101	MARL_T1	0	1	1	0	0	0	-1.3	-1.34	0	0	0	0	0	0
3/18/2025 21:22	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:22	59202	THOM_T1	255	318	63	0.35	0.44	0.09	0	0	0	0	0	0	0	0
3/18/2025 21:22	10102	ALLE_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:22	61304	EARL_T1	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
3/18/2025 21:22	44802	EDAN_T2	0	0	0	0	0	0	-1.05	-1.08	0	0	0	0	0	0
3/18/2025 21:22	61302	EARL_T1	0	0	0	0	0	0	-0.05	0.78	1	0	-1	1200	0	-1200
3/18/2025 21:22	57203	ROSS_T1	61	99	38	0.11	0.11	0	0	0	0	0	0	0	0	0
3/18/2025 21:22	57401	SPAN_T1	2	2	0	0.95	0.95	0	0.22	0.17	0	0	0	0	0	0
3/18/2025 21:22	67605	WARW_T1	18	29	11	0.52	0.61	0.09	0	0	0	0	0	0	0	0
3/18/2025 21:22	64902	MILL_T2	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
3/18/2025 21:22	60201	ATGL_T2	182	261	79	0.32	0.34	0.02	-0.36	-0.45	0	0	0	0	0	0
3/18/2025 21:22	54502	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/18/2025 21:22	53501	EVIL_T2	0	2	2	0	0.4	0.4	-0.26	-0.31	0	0	0	0	0	0
3/18/2025 21:22	47401	PENS_T1	0	0	0	0	0	0	0.61	0.61	0	0	0	0	0	0
3/18/2025 21:22	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/18/2025 21:22	13303	ORVI_T1	0	0	0	0	0	0	0.79	0.78	0	0	0	0	0	0
3/18/2025 21:22	59201	THOM_T1	21	21	0	0.57	0.6	0.03	0	0	0	0	0	0	0	0
3/18/2025 21:22	61101	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:22	60803	BUCK_T1	4	9	5	0.13	0.13	0	-0.57	-0.59	1	1	0	600	600	0
3/18/2025 21:22	53901	HALI_T2	1	1	0	0.7	1.3	0.6	-1.08	-1.07	0	0	0	0	0	0
3/18/2025 21:22	45302	WBER_T2	0	0	0	0	0	0	0.66	0.55	0	0	0	0	0	0
3/18/2025 21:22	11801	FRAN_T2	0	0	0	0	0	0	-0.05	-0.1	0	0	0	0	0	0
3/18/2025 21:22	54505	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/18/2025 21:22	66902	SHIL_T2	0	0	0	0	0	0	-1.09	-1.09	0	0	0	0	0	0
3/18/2025 21:22	64202	KINZ_T1	0	0	0	0	0	0	0.51	0.6	0	0	0	0	0	0
3/18/2025 21:22	12604	MACA_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
3/18/2025 21:22	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/18/2025 21:22	43302	WATS_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/18/2025 21:22	12001	HATF_T1	0	0	0	0	0	0	0.96	0.95	1	1	0	600	600	0
3/18/2025 21:22	12602	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:22	57201	ROSS_T1	182	235	53	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
3/18/2025 21:22	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:22	53903	HALI_T2	3	2	-1	1.23	1.7	0.47	0	0	0	0	0	0	0	0
3/18/2025 21:22	43802	SWIL_T1	0	0	0	0	0	0	-0.6	-0.5	2	2	0	1200	1200	0
3/18/2025 21:22	54503	ENOL_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	600	600	0
3/18/2025 21:22	67402	WAKE_T2	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
3/18/2025 21:22	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:22	21206	ECAR_T2	1	1	0	7.7	8.1	0.4	1.19	1.21	0	0	0	0	0	0
3/18/2025 21:22	60801	BUCK_T1	13	22	9	0.15	0.18	0.03	0	0	0	0	0	0	0	0
3/18/2025 21:22	41001	LAUR_T2	63	79	16	0.22	0.33	0.11	0	0	0	0	0	0	0	0
3/18/2025 21:23	52202	DEVO_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
3/18/2025 21:23	60801	BUCK_T1	13	22	9	0.15	0.18	0.03	-0.28	-0.3	0	0	0	0	0	0
3/18/2025 21:23	52501	PROG_T1	0	0	0	0	0	0	0.07	0.06	2	2	0	600	600	0
3/18/2025 21:23	52402	GRPA_T2	5	5	0	1.02	1.1	0.08	0	0	0	0	0	0	0	0
3/18/2025 21:23	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:23	52403	GRPA_T2	2	9	7	0.3	0.18	-0.12	-0.66	-0.65	0	0	0	0	0	0
3/18/2025 21:23	42701	AUGU_T1	1	1	0	0.7	0.8	0.1	0	0	2	2	0	1800	1800	0
3/18/2025 21:23	41002	LAUR_T2	35	47	12	0.27	0.34	0.07	0	0	0	0	0	0	0	0
3/18/2025 21:23	61101	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:23	61306	EARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:23	54505	ENOL_T2	1	1	0	0.6	0.6	0	-1.4	-1.41	1	1	0	600	600	0
3/18/2025 21:23	60803	BUCK_T1	4	9	5	0.13	0.13	0	0	0	0	0	0	0	0	0
3/18/2025 21:23	54502	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:23	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:23	23403	HONE_T1	11	9	-2	0.11	0.13	0.02	0	0	0	0	0	0	0	0
3/18/2025 21:23	59201	THOM_T1	21	21	0	0.57	0.6	0.03	0	0	0	0	0	0	0	0
3/18/2025 21:23	61102	BERK_T5	0	1	1	0	0.2	0.2	0.49	0.39	1	1	0	300	300	0
3/18/2025 21:23	55002	NEWP_T1	6	6	0	0.9	1.15	0.25	-0.68	-0.64	0	0	0	0	0	0
3/18/2025 21:23	15702	TANN_T2	0	0	0	0	0	0	-0.52	-0.48	0	0	0	0	0	0
3/18/2025 21:23	44302	BEAV_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
3/18/2025 21:23	63501	HEID_TBK1-2	33	35	2	0.27	0.25	-0.02	0.29	0.24	0	0	0	0	0	0
3/18/2025 21:23	52404	GRPA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/18/2025 21:23	57201	ROSS_T1	182	235	53	0.33	0.29	-0.04	-2.83	-2.91	0	0	0	0	0	0
3/18/2025 21:23	57203	ROSS_T1	61	99	38	0.11	0.11	0	0.27	0.27	0	0	0	0	0	0
3/18/2025 21:23	41305	FISH_T1	6	22	16	0.12	0.13	0.01	0	0	0	0	0	0	0	0
3/18/2025 21:23	43202	MVIL_T2	0	0	0	0	0	0	-0.74	-0.66	0	0	0	0	0	0
3/18/2025 21:23	10102	ALLE_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:23	48302	ORWI_T2	153	178	25	0.36	0.38	0.02	-0.2	-0.19	0	0	0	0	0	0
3/18/2025 21:23	41301	FISH_T1	94	184	90	0.18	0.19	0.01	0	0	0	0	0	0	0	0
3/18/2025 21:23	57401	SPAN_T1	2	2	0	0.95	0.95	0	0.44	0.35	0	0	0	0	0	0
3/18/2025 21:23	15703	TANN_T2	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
3/18/2025 21:23	54503	ENOL_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	600	600	0
3/18/2025 21:23	21203	ECAR_T1	0	0	0	0	0	0	-0.57	-0.57	0	0	0	0	0	0
3/18/2025 21:23	67605	WARW_T1	18	29	11	0.52	0.61	0.09	-1.19	-1.19	0	0	0	0	0	0
3/18/2025 21:23	59202	THOM_T1	255	318	63	0.35	0.44	0.09	0	0	0	0	0	0	0	0
3/18/2025 21:23	55001	NEWP_T1	1	1	0	0.6	0.3	-0.3	-0.2	-0.22	0	0	0	0	0	0
3/18/2025 21:23	48303	ORWI_T2	133	230	97	0.18	0.24	0.06	0	0	0	0	0	0	0	0
3/18/2025 21:23	23404	HONE_T1	5	1	-4	0.1	0.1	0	0	0	0	0	0	0	0	0
3/18/2025 21:23	54501	ENOL_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
3/18/2025 21:23	12001	HATF_T1	0	0	0	0	0	0	0.96	0.95	1	1	0	600	600	0
3/18/2025 21:23	57402	SPAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:23	54504	ENOL_T2	0	0	0	0	0	0	-1.24	-1.23	1	1	0	600	600	0
3/18/2025 21:24	41901	REED_T1	8	9	1	0.35	0.51	0.16	0	0	0	0	0	0	0	0
3/18/2025 21:24	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:24	24101	EHAZ_T1	12	14	2	0.73	0.43	-0.3	0	0	0	0	0	0	0	0
3/18/2025 21:24	10102	ALLE_T2	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:24	20601	GRWO_T2	0	0	0	0	0	0	0.75	0.73	0	0	0	0	0	0
3/18/2025 21:24	61701	ELIZ_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:24	47901	HROG_T1	0	0	0	0	0	0	1.97	1.71	0	0	0	0	0	0
3/18/2025 21:24	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:24	10801	CHHI_T1	0	0	0	0	0	0	-1.73	-1.74	2	2	0	1500	1500	0
3/18/2025 21:24	20602	GRWO_T2	18	35	17	0.11	0.21	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:24	20603	GRWO_T2	72	142	70	0.31	0.36	0.05	0	0	0	0	0	0	0	0
3/18/2025 21:24	48303	ORWI_T2	133	230	97	0.18	0.24	0.06	0.48	0.45	0	0	0	0	0	0
3/18/2025 21:24	61703	ELIZ_T1	0	0	0	0	0	0	-5.24	-5.29	4	4	0	4200	4200	0
3/18/2025 21:24	67401	WAKE_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:24	13103	NHAM_T2	0	0	0	0	0	0	-1.8	-1.83	1	1	0	600	600	0
3/18/2025 21:24	10101	ALLE_T3	2	2	0	5.95	3.85	-2.1	0	0	0	0	0	0	0	0
3/18/2025 21:24	24105	EHAZ_T1	4	4	0	5.9	5.65	-0.25	0	0	0	0	0	0	0	0
3/18/2025 21:24	64204	KINZ_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
3/18/2025 21:24	24102	EHAZ_T1	4	4	0	1.2	0.48	-0.72	0	0	0	0	0	0	0	0
3/18/2025 21:24	54505	ENOL_T2	1	1	0	0.6	0.6	0	-1.4	-1.41	1	1	0	600	600	0
3/18/2025 21:24	24104	EHAZ_T1	0	0	0	0	0	0	-2.27	-2.25	1	1	0	1200	1200	0
3/18/2025 21:24	61001	DONV_T1	0	0	0	0	0	0	-0.1	-0.12	0	0	0	0	0	0
3/18/2025 21:24	47101	MARL_T1	0	1	1	0	0	0	-1.3	-1.34	0	0	0	0	0	0
3/18/2025 21:24	48302	ORWI_T2	153	178	25	0.36	0.38	0.02	0	0	0	0	0	0	0	0
3/18/2025 21:24	27201	YATE_T1	10	10	0	6.6	6.43	-0.17	-1.33	-1.44	0	0	0	0	0	0
3/18/2025 21:24	41201	KENM_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
3/18/2025 21:24	58402	MORO_T1	0	0	0	0	0	0	-0.26	0.36	2	1	-1	1500	900	-600
3/18/2025 21:24	66903	SHIL_T2	0	0	0	0	0	0	-1.3	-1.29	0	0	0	0	0	0
3/18/2025 21:24	54502	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:24	41902	REED_T1	0	0	0	0	0	0	1.07	0.97	0	0	0	0	0	0
3/18/2025 21:24	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:24	24204	PROV_T3	2	5	3	2.8	1.2	-1.6	0	0	0	0	0	0	0	0
3/18/2025 21:24	24201	PROV_T3	6	8	2	2.92	2.1	-0.82	-1.55	-1.53	1	1	0	1200	1200	0
3/18/2025 21:24	45702	LIND_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:24	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:24	40802	EXCH_T2	0	0	0	0	0	0	-0.54	-0.56	0	0	0	0	0	0
3/18/2025 21:24	54503	ENOL_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	600	600	0
3/18/2025 21:24	67106	SPRI_T2	0	0	0	0	0	0	-1.34	-1.34	1	1	0	900	900	0
3/18/2025 21:24	52202	DEVO_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
3/18/2025 21:24	42902	MIDD_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
3/18/2025 21:24	41202	KENM_T2	1	1	0	0.7	0.9	0.2	0	0	0	0	0	0	0	0
3/18/2025 21:24	67402	WAKE_T2	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
3/18/2025 21:24	52502	PROG_T2	0	0	0	0	0	0	-0.77	-0.78	1	1	0	900	900	0
3/18/2025 21:24	51304	WIND_T2	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
3/18/2025 21:25	57203	ROSS_T1	61	99	38	0.11	0.11	0	0.54	0.54	0	0	0	0	0	0
3/18/2025 21:25	52202	DEVO_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
3/18/2025 21:25	63803	HEMP_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
3/18/2025 21:25	44505	HAMI_T2	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
3/18/2025 21:25	11903	ETEK_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:25	61303	EARL_T1	0	0	0	0	0	0	0.21	0.16	0	0	0	0	0	0
3/18/2025 21:25	62106	ELAN_T1	8	27	19	0.11	0.14	0.03	0	0	0	0	0	0	0	0
3/18/2025 21:25	61101	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:25	62101	ELAN_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:25	44201	POIN_T1	0	0	0	0	0	0	-2.34	-2.31	1	1	0	1200	1200	0
3/18/2025 21:25	61102	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 21:25	65203	PRIN_T1	2	3	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/18/2025 21:25	67605	WARW_T1	18	29	11	0.52	0.61	0.09	-1.19	-1.19	0	0	0	0	0	0
3/18/2025 21:25	14802	TREI_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
3/18/2025 21:25	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/18/2025 21:25	52403	GRPA_T2	2	9	7	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
3/18/2025 21:25	65202	PRIN_T1	6	3	-3	0.17	0.3	0.13	0	0	0	0	0	0	0	0
3/18/2025 21:25	43402	BENT_T1	0	0	0	0	0	0	-1.03	-1.03	1	1	0	900	900	0
3/18/2025 21:25	42902	MIDD_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
3/18/2025 21:25	45501	DERR_T2	0	0	0	0	0	0	-0.01	-0.15	2	2	0	1800	1800	0
3/18/2025 21:25	67603	WARW_T1	0	0	0	0	0	0	-0.14	-0.15	0	0	0	0	0	0
3/18/2025 21:25	53902	HALI_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
3/18/2025 21:25	63804	HEMP_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
3/18/2025 21:25	52401	GRPA_T2	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
3/18/2025 21:25	43505	WWIL_T1	1	1	0	2.3	2.2	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:25	43506	WWIL_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:25	41002	LAUR_T2	35	47	12	0.27	0.34	0.07	0	0	0	0	0	0	0	0
3/18/2025 21:25	41902	REED_T1	0	0	0	0	0	0	2.15	1.93	0	0	0	0	0	0
3/18/2025 21:25	40101	HUNT_T2	0	1	1	0	0	0	-1.74	-1.78	0	0	0	0	0	0
3/18/2025 21:25	64801	MONE_T2	82	126	44	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/18/2025 21:25	44801	EDAN_T2	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
3/18/2025 21:25	43504	WWIL_T1	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
3/18/2025 21:25	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:25	66505	SMAN_T2	3	3	0	1.5	1.63	0.13	0	0	0	0	0	0	0	0
3/18/2025 21:25	12606	MACA_T1	0	0	0	0	0	0	0.57	0.56	0	0	0	0	0	0
3/18/2025 21:25	46801	HEPB_T2	2	2	0	0.6	0.9	0.3	0.46	0.44	0	0	0	0	0	0
3/18/2025 21:25	62103	ELAN_T1	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/18/2025 21:25	62102	ELAN_T1	0	1	1	0	0.1	0.1	0.55	0.45	0	0	0	0	0	0
3/18/2025 21:25	44203	POIN_T2	0	0	0	0	0	0	-0.84	-0.94	2	2	0	2100	2100	0
3/18/2025 21:25	66502	SMAN_T2	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
3/18/2025 21:25	44202	POIN_T2	0	0	0	0	0	0	-0.68	-0.67	1	1	0	1200	1200	0
3/18/2025 21:25	66903	SHIL_T2	0	0	0	0	0	0	-1.3	-1.29	0	0	0	0	0	0
3/18/2025 21:25	66901	SHIL_T2	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
3/18/2025 21:25	63501	HEID_TBK1-2	33	35	2	0.27	0.25	-0.02	0.29	0.24	0	0	0	0	0	0
3/18/2025 21:25	53901	HALI_T2	1	1	0	0.7	1.3	0.6	-1.08	-1.07	0	0	0	0	0	0
3/18/2025 21:25	53501	EVIL_T2	0	2	2	0	0.4	0.4	-0.26	-0.31	0	0	0	0	0	0
3/18/2025 21:25	17805	GILB_T2	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
3/18/2025 21:25	12602	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:25	52402	GRPA_T2	5	5	0	1.02	1.1	0.08	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/18/2025 21:25	53903	HALI_T2	3	2	-1	1.23	1.7	0.47	0	0	0	0	0	0	0	0
3/18/2025 21:25	62105	ELAN_T1	80	159	79	0.11	0.16	0.05	0.37	0.35	0	0	0	0	0	0
3/18/2025 21:25	64802	MONE_T2	63	74	11	0.24	0.25	0.01	0	0	0	0	0	0	0	0
3/18/2025 21:25	63602	LETO_T1	0	18	18	0	0.1	0.1	-0.62	-0.64	0	0	0	0	0	0
3/18/2025 21:25	57201	ROSS_T1	182	235	53	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
3/18/2025 21:25	54502	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:25	52404	GRPA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/18/2025 21:25	10101	ALLE_T3	2	2	0	5.95	3.85	-2.1	0	0	0	0	0	0	0	0
3/18/2025 21:25	44703	MUNC_T2	1	1	0	0.4	1.6	1.2	0.25	0.27	0	0	0	0	0	0
3/18/2025 21:25	52501	PROG_T1	0	0	0	0	0	0	0.03	0.03	1	1	0	300	300	0
3/18/2025 21:25	54505	ENOL_T2	1	1	0	0.6	0.6	0	-2.8	-2.82	2	2	0	1200	1200	0
3/18/2025 21:25	14603	SWHI_T1	0	0	0	0	0	0	0	-0.42	0	0	0	0	0	0
3/18/2025 21:25	46001	BERW_T1	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
3/18/2025 21:25	41001	LAUR_T2	63	79	16	0.22	0.33	0.11	0	0	0	0	0	0	0	0
3/18/2025 21:25	44502	HAMI_T2	1	1	0	3.6	3.5	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:25	61304	EARL_T1	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
3/18/2025 21:25	63801	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:25	65205	PRIN_T1	1	4	3	1.9	0.55	-1.35	0	0	0	0	0	0	0	0
3/18/2025 21:25	43202	MVIL_T2	0	0	0	0	0	0	-0.74	-0.66	0	0	0	0	0	0
3/18/2025 21:25	54503	ENOL_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	600	600	0
3/18/2025 21:25	40902	JESH_T1	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
3/18/2025 21:25	20603	GRWO_T2	72	142	70	0.31	0.36	0.05	0.32	0.33	0	0	0	0	0	0
3/18/2025 21:25	20602	GRWO_T2	18	35	17	0.11	0.21	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:25	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:25	65904	SAKR_T2	0	0	0	0	0	0	-1.75	-1.74	2	2	0	900	900	0
3/18/2025 21:25	41901	REED_T1	8	9	1	0.35	0.51	0.16	0	0	0	0	0	0	0	0
3/18/2025 21:25	57401	SPAN_T1	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
3/18/2025 21:25	63802	HEMP_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/18/2025 21:25	22101	EDEL_T2	0	0	0	0	0	0	0.31	0.3	1	1	0	1200	1200	0
3/18/2025 21:26	57203	ROSS_T1	61	99	38	0.11	0.11	0	0	0	0	0	0	0	0	0
3/18/2025 21:26	54503	ENOL_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	600	600	0
3/18/2025 21:26	41303	FISH_T1	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
3/18/2025 21:26	12605	MACA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:26	64101	REFR_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
3/18/2025 21:26	52403	GRPA_T2	2	9	7	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
3/18/2025 21:26	46203	DANV_T2	290	337	47	0.77	0.96	0.19	-1.14	-1.12	0	0	0	0	0	0
3/18/2025 21:26	58201	NEWV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:26	44801	EDAN_T2	0	0	0	0	0	0	-1.06	-1.08	0	0	0	0	0	0
3/18/2025 21:26	44201	POIN_T1	0	0	0	0	0	0	-2.34	-2.31	1	1	0	1200	1200	0
3/18/2025 21:26	61101	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:26	57404	SPAN_T2	0	0	0	0	0	0	-0.14	-0.12	1	1	0	1200	1200	0
3/18/2025 21:26	64702	LITI_T2	0	0	0	0	0	0	-0.82	-0.83	0	0	0	0	0	0
3/18/2025 21:26	67401	WAKE_T2	0	3	3	0	0.1	0.1	-0.96	-0.98	0	0	0	0	0	0
3/18/2025 21:26	64203	KINZ_T1	0	0	0	0	0	0	0.05	0.12	0	0	0	0	0	0
3/18/2025 21:26	66901	SHIL_T2	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
3/18/2025 21:26	42903	MIDD_T2	0	0	0	0	0	0	-0.58	-0.56	0	0	0	0	0	0
3/18/2025 21:26	20401	ASHF_T2	2	3	1	0.15	0.23	0.08	0	0	0	0	0	0	0	0
3/18/2025 21:26	52501	PROG_T1	0	0	0	0	0	0	0.03	0.03	1	1	0	300	300	0
3/18/2025 21:26	57205	ROSS_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
3/18/2025 21:26	61703	ELIZ_T1	0	0	0	0	0	0	-2.62	-2.65	2	2	0	2100	2100	0
3/18/2025 21:26	41301	FISH_T1	94	184	90	0.18	0.19	0.01	-0.36	-0.39	0	0	0	0	0	0
3/18/2025 21:26	44703	MUNC_T2	1	1	0	0.4	1.6	1.2	0	0	0	0	0	0	0	0
3/18/2025 21:26	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:26	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.25	1	1	0	600	600	0
3/18/2025 21:26	54504	ENOL_T2	0	0	0	0	0	0	-1.24	-1.23	1	1	0	600	600	0
3/18/2025 21:26	66505	SMAN_T2	3	3	0	1.5	1.63	0.13	0	0	0	0	0	0	0	0
3/18/2025 21:26	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/18/2025 21:26	43504	WWIL_T1	0	0	0	0	0	0	-0.51	-0.49	0	0	0	0	0	0
3/18/2025 21:26	45303	WBER_T2	2	2	0	4.05	3.95	-0.1	-0.36	-0.38	0	0	0	0	0	0
3/18/2025 21:26	57201	ROSS_T1	182	235	53	0.33	0.29	-0.04	-1.42	-1.45	0	0	0	0	0	0
3/18/2025 21:26	44302	BEAV_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
3/18/2025 21:26	57402	SPAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:26	44502	HAMI_T2	1	1	0	3.6	3.5	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:26	45501	DERR_T2	0	0	0	0	0	0	-0.02	-0.44	6	6	0	5400	5400	0
3/18/2025 21:26	43506	WWIL_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:26	40302	TAMA_T3	31	45	14	0.62	0.61	-0.01	0	0	0	0	0	0	0	0
3/18/2025 21:26	52404	GRPA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/18/2025 21:26	61102	BERK_T5	0	1	1	0	0.2	0.2	0.49	0.39	1	1	0	300	300	0
3/18/2025 21:26	54502	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:26	64204	KINZ_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
3/18/2025 21:26	42902	MIDD_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
3/18/2025 21:26	47403	PENS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:26	57401	SPAN_T1	2	2	0	0.95	0.95	0	0.44	0.35	0	0	0	0	0	0
3/18/2025 21:26	44802	EDAN_T2	0	0	0	0	0	0	-3.15	-3.24	0	0	0	0	0	0
3/18/2025 21:26	23502	GEOR_T1	0	0	0	0	0	0	-0.52	-0.53	0	0	0	0	0	0
3/18/2025 21:26	54601	SUMM_T2	5	8	3	0.52	0.46	-0.06	-1.95	-1.88	2	2	0	2100	2100	0
3/18/2025 21:26	67605	WARW_T1	18	29	11	0.52	0.61	0.09	-1.19	-1.19	0	0	0	0	0	0
3/18/2025 21:26	59402	RFLD_T2	4	11	7	0.28	0.18	-0.1	-0.88	-0.86	0	0	0	0	0	0
3/18/2025 21:26	60803	BUCK_T1	4	9	5	0.13	0.13	0	-1.14	-1.18	2	2	0	1200	1200	0
3/18/2025 21:26	12604	MACA_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
3/18/2025 21:26	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:26	41305	FISH_T1	6	22	16	0.12	0.13	0.01	0	0	0	0	0	0	0	0
3/18/2025 21:26	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:26	52202	DEVO_T2	0	0	0	0	0	0	-0.21	-0.22	0	0	0	0	0	0
3/18/2025 21:26	47401	PENS_T1	0	0	0	0	0	0	1.22	1.26	0	0	0	0	0	0
3/18/2025 21:26	43505	WWIL_T1	1	1	0	2.3	2.2	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:26	59201	THOM_T1	21	21	0	0.57	0.6	0.03	0	0	0	0	0	0	0	0
3/18/2025 21:26	53901	HALI_T2	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
3/18/2025 21:26	61801	EELI_T2	0	1	1	0	0.2	0.2	-0.55	-0.57	0	0	0	0	0	0
3/18/2025 21:26	20403	ASHF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:26	57403	SPAN_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
3/18/2025 21:26	63804	HEMP_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
3/18/2025 21:26	63803	HEMP_T1	0	0	0	0	0	0	0.54	0.54	0	0	0	0	0	0
3/18/2025 21:26	53903	HALI_T2	3	2	-1	1.23	1.7	0.47	-0.19	-0.17	0	0	0	0	0	0
3/18/2025 21:26	40303	TAMA_T3	9	12	3	0.47	0.46	-0.01	0	0	0	0	0	0	0	0
3/18/2025 21:26	64201	KINZ_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:26	44505	HAMI_T2	0	0	0	0	0	0	-0.28	-0.31	0	0	0	0	0	0
3/18/2025 21:26	40301	TAMA_T3	12	19	7	0.28	0.33	0.05	1.14	1.2	2	2	0	1800	1800	0
3/18/2025 21:26	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:26	16201	POFA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:26	63602	LETO_T1	0	18	18	0	0.1	0.1	-0.62	-0.64	0	0	0	0	0	0
3/18/2025 21:26	64802	MONE_T2	63	74	11	0.24	0.25	0.01	0	0	0	0	0	0	0	0
3/18/2025 21:26	54505	ENOL_T2	1	1	0	0.6	0.6	0	-2.8	-2.82	2	2	0	1200	1200	0
3/18/2025 21:26	44701	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:26	13105	NHAM_T2	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
3/18/2025 21:26	14802	TREI_T2	0	0	0	0	0	0	0.27	0.27	0	0	0	0	0	0
3/18/2025 21:26	64801	MONE_T2	82	126	44	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/18/2025 21:26	60801	BUCK_T1	13	22	9	0.15	0.18	0.03	-0.28	-0.3	0	0	0	0	0	0
3/18/2025 21:26	67601	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:26	61701	ELIZ_T1	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:26	44203	POIN_T2	0	0	0	0	0	0	-0.84	-0.94	2	2	0	2100	2100	0
3/18/2025 21:26	45802	HEGI_T2	23	30	7	0.45	0.48	0.03	0	0	0	0	0	0	0	0
3/18/2025 21:26	42701	AUGU_T1	1	1	0	0.7	0.8	0.1	0	0	2	2	0	1800	1800	0
3/18/2025 21:26	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:26	40902	JESH_T1	0	0	0	0	0	0	-0.95	-0.95	0	0	0	0	0	0
3/18/2025 21:26	66903	SHIL_T2	0	0	0	0	0	0	-1.3	-1.29	0	0	0	0	0	0
3/18/2025 21:26	43202	MVIL_T2	0	0	0	0	0	0	-0.74	-0.66	0	0	0	0	0	0
3/18/2025 21:26	52101	MEIS_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/18/2025 21:26	52402	GRPA_T2	5	5	0	1.02	1.1	0.08	0	0	0	0	0	0	0	0
3/18/2025 21:26	59202	THOM_T1	255	318	63	0.35	0.44	0.09	0	0	0	0	0	0	0	0
3/18/2025 21:26	20402	ASHF_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/18/2025 21:26	58202	NEWV_T1	0	5	5	0	0.28	0.28	0	0	0	0	0	0	0	0
3/18/2025 21:26	61302	EARL_T1	0	0	0	0	0	0	-0.05	0.78	1	0	-1	1200	0	-1200
3/18/2025 21:26	53501	EVIL_T2	0	2	2	0	0.4	0.4	-0.79	-0.92	0	0	0	0	0	0
3/18/2025 21:26	53902	HALI_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
3/18/2025 21:26	44301	BEAV_T2	0	0	0	0	0	0	0.24	0.09	1	1	0	600	600	0
3/18/2025 21:26	61702	ELIZ_T2	0	0	0	0	0	0	-0.83	-0.86	1	1	0	300	300	0
3/18/2025 21:27	48303	ORWI_T2	133	230	97	0.18	0.24	0.06	0.48	0.45	0	0	0	0	0	0
3/18/2025 21:27	54501	ENOL_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
3/18/2025 21:27	61801	EELI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 21:27	41001	LAUR_T2	63	79	16	0.22	0.33	0.11	0	0	0	0	0	0	0	0
3/18/2025 21:27	67203	TEHI_T1	0	0	0	0	0	0	2.32	2.33	2	2	0	1500	1500	0
3/18/2025 21:27	61803	EELI_T2	0	0	0	0	0	0	0.17	0.1	1	1	0	600	600	0
3/18/2025 21:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:27	66502	SMAN_T2	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
3/18/2025 21:27	67605	WARW_T1	18	29	11	0.52	0.61	0.09	-2.38	-2.38	0	0	0	0	0	0
3/18/2025 21:27	55002	NEWP_T1	6	6	0	0.9	1.15	0.25	-0.34	-0.32	0	0	0	0	0	0
3/18/2025 21:27	40101	HUNT_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:27	60801	BUCK_T1	13	22	9	0.15	0.18	0.03	-0.28	-0.3	0	0	0	0	0	0
3/18/2025 21:27	63804	HEMP_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
3/18/2025 21:27	66505	SMAN_T2	3	3	0	1.5	1.63	0.13	0	0	0	0	0	0	0	0
3/18/2025 21:27	63801	HEMP_T1	0	0	0	0	0	0	0.14	0.05	0	0	0	0	0	0
3/18/2025 21:27	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:27	61101	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:27	67201	TEHI_T1	1	12	11	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/18/2025 21:27	46004	BERW_T2	1	0	-1	0.7	0	-0.7	-0.63	-0.64	0	0	0	0	0	0
3/18/2025 21:27	41002	LAUR_T2	35	47	12	0.27	0.34	0.07	-1.05	-1.06	0	0	0	0	0	0
3/18/2025 21:27	64802	MONE_T2	63	74	11	0.24	0.25	0.01	0	0	0	0	0	0	0	0
3/18/2025 21:27	44703	MUNC_T2	1	1	0	0.4	1.6	1.2	0	0	0	0	0	0	0	0
3/18/2025 21:27	54502	ENOL_T2	1	1	0	1	0.9	-0.1	-2.13	-2.08	1	1	0	600	600	0
3/18/2025 21:27	67401	WAKE_T2	0	3	3	0	0.1	0.1	-0.96	-0.98	0	0	0	0	0	0
3/18/2025 21:27	55003	NEWP_T2	2	8	6	0.1	0.29	0.19	-0.25	-0.29	0	0	0	0	0	0
3/18/2025 21:27	50834	WALN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:27	54503	ENOL_T2	0	0	0	0	0	0	-1.02	-1	2	2	0	1200	1200	0
3/18/2025 21:27	42701	AUGU_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:27	27201	YATE_T1	10	10	0	6.6	6.43	-0.17	-1.33	-1.44	0	0	0	0	0	0
3/18/2025 21:27	58202	NEWV_T1	0	5	5	0	0.28	0.28	-0.03	-0.27	0	0	0	0	0	0
3/18/2025 21:27	58402	MORO_T1	0	0	0	0	0	0	-0.26	0.36	2	1	-1	1500	900	-600
3/18/2025 21:27	66901	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:27	53501	EVIL_T2	0	2	2	0	0.4	0.4	-0.26	-0.31	0	0	0	0	0	0
3/18/2025 21:27	43202	MVIL_T2	0	0	0	0	0	0	-1.48	-1.32	0	0	0	0	0	0
3/18/2025 21:27	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.25	1	1	0	600	600	0
3/18/2025 21:27	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/18/2025 21:27	57402	SPAN_T2	0	1	1	0	0.1	0.1	-0.61	-0.62	0	0	0	0	0	0
3/18/2025 21:27	44801	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:27	58102	NEKI_T1	1	1	0	1	1.1	0.1	0.14	0.02	0	0	0	0	0	0
3/18/2025 21:27	48302	ORWI_T2	153	178	25	0.36	0.38	0.02	0	0	0	0	0	0	0	0
3/18/2025 21:27	45802	HEGI_T2	23	30	7	0.45	0.48	0.03	0.79	0.85	0	0	0	0	0	0
3/18/2025 21:27	63802	HEMP_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/18/2025 21:27	64801	MONE_T2	82	126	44	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/18/2025 21:27	47401	PENS_T1	0	0	0	0	0	0	0.61	0.63	0	0	0	0	0	0
3/18/2025 21:27	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:27	52401	GRPA_T2	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
3/18/2025 21:27	67502	WEWI_T2	36	10	-26	0.14	0.11	-0.03	0	0	0	0	0	0	0	0
3/18/2025 21:27	44301	BEAV_T2	0	0	0	0	0	0	0.24	0.09	1	1	0	600	600	0
3/18/2025 21:27	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/18/2025 21:27	61303	EARL_T1	0	0	0	0	0	0	0.21	0.16	0	0	0	0	0	0
3/18/2025 21:27	61102	BERK_T5	0	1	1	0	0.2	0.2	0.49	0.39	1	1	0	300	300	0
3/18/2025 21:27	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:27	54505	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/18/2025 21:27	67901	WNHO_T2	0	0	0	0	0	0	-0.64	-0.65	1	1	0	900	900	0
3/18/2025 21:27	43802	SWIL_T1	0	0	0	0	0	0	-0.3	-0.25	1	1	0	600	600	0
3/18/2025 21:27	42902	MIDD_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
3/18/2025 21:27	52403	GRPA_T2	2	9	7	0.3	0.18	-0.12	-0.66	-0.65	0	0	0	0	0	0
3/18/2025 21:27	46803	HEPB_T2	0	0	0	0	0	0	0.44	0.4	0	0	0	0	0	0
3/18/2025 21:27	52404	GRPA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/18/2025 21:27	43801	SWIL_T1	9	6	-3	0.86	1.17	0.31	0	0	0	0	0	0	0	0
3/18/2025 21:27	52101	MEIS_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/18/2025 21:27	45303	WBER_T2	2	2	0	4.05	3.95	-0.1	-0.36	-0.38	0	0	0	0	0	0
3/18/2025 21:27	55001	NEWP_T1	1	1	0	0.6	0.3	-0.3	-0.2	-0.22	0	0	0	0	0	0
3/18/2025 21:27	57403	SPAN_T1	0	0	0	0	0	0	-0.07	-0.06	0	0	0	0	0	0
3/18/2025 21:27	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:27	52402	GRPA_T2	5	5	0	1.02	1.1	0.08	0	0	0	0	0	0	0	0
3/18/2025 21:27	60803	BUCK_T1	4	9	5	0.13	0.13	0	0	0	0	0	0	0	0	0
3/18/2025 21:27	57401	SPAN_T1	2	2	0	0.95	0.95	0	0.22	0.17	0	0	0	0	0	0
3/18/2025 21:27	44701	MUNC_T2	0	0	0	0	0	0	-2.9	-2.94	0	0	0	0	0	0
3/18/2025 21:27	46801	HEPB_T2	2	2	0	0.6	0.9	0.3	0.46	0.44	0	0	0	0	0	0
3/18/2025 21:28	59201	THOM_T1	21	21	0	0.57	0.6	0.03	0	0	0	0	0	0	0	0
3/18/2025 21:28	46506	LOHA_T1	4	4	0	3	3.35	0.35	-0.25	-0.25	0	0	0	0	0	0
3/18/2025 21:28	67601	WARW_T2	0	0	0	0	0	0	-0.46	-0.5	0	0	0	0	0	0
3/18/2025 21:28	59202	THOM_T1	255	318	63	0.35	0.44	0.09	0	0	0	0	0	0	0	0
3/18/2025 21:28	53901	HALI_T2	1	1	0	0.7	1.3	0.6	0	0	0	0	0	0	0	0
3/18/2025 21:28	44301	BEAV_T2	0	0	0	0	0	0	0.24	0.09	1	1	0	600	600	0
3/18/2025 21:28	55003	NEWP_T2	2	8	6	0.1	0.29	0.19	0	0	0	0	0	0	0	0
3/18/2025 21:28	11301	EMMA_T1	0	0	0	0	0	0	-0.94	-0.97	0	0	0	0	0	0
3/18/2025 21:28	44902	SCOT_T2	23	130	107	0.16	0.12	-0.04	-1	-0.96	0	0	0	0	0	0
3/18/2025 21:28	42701	AUGU_T1	1	1	0	0.7	0.8	0.1	0	0	2	2	0	1800	1800	0
3/18/2025 21:28	55002	NEWP_T1	6	6	0	0.9	1.15	0.25	-0.34	-0.32	0	0	0	0	0	0
3/18/2025 21:28	46502	LOHA_T1	0	0	0	0	0	0	-1.49	-1.48	1	1	0	1200	1200	0
3/18/2025 21:28	61102	BERK_T5	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/18/2025 21:28	58701	ROSE_T2	0	0	0	0	0	0	0.32	0.31	0	0	0	0	0	0
3/18/2025 21:28	55001	NEWP_T1	1	1	0	0.6	0.3	-0.3	-0.39	-0.44	0	0	0	0	0	0
3/18/2025 21:28	54502	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:28	53903	HALI_T2	3	2	-1	1.23	1.7	0.47	0	0	0	0	0	0	0	0
3/18/2025 21:28	58705	ROSE_T2	5	5	0	3.42	3.52	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:28	57402	SPAN_T2	0	1	1	0	0.1	0.1	-0.61	-0.62	0	0	0	0	0	0
3/18/2025 21:28	66504	SMAN_T2	0	0	0	0	0	0	-0.71	-0.79	0	0	0	0	0	0
3/18/2025 21:28	45802	HEGI_T2	23	30	7	0.45	0.48	0.03	0.79	0.85	0	0	0	0	0	0
3/18/2025 21:28	57201	ROSS_T1	182	235	53	0.33	0.29	-0.04	0	0	0	0	0	0	0	0
3/18/2025 21:28	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:28	57203	ROSS_T1	61	99	38	0.11	0.11	0	0	0	0	0	0	0	0	0
3/18/2025 21:28	63501	HEID_TBK1-2	33	35	2	0.27	0.25	-0.02	0.29	0.24	0	0	0	0	0	0
3/18/2025 21:28	46504	LOHA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:28	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:28	53902	HALI_T2	1	1	0	5.8	6	0.2	0	0	0	0	0	0	0	0
3/18/2025 21:28	58401	MORO_T1	0	0	0	0	0	0	-6.1	-6.25	5	5	0	3000	3000	0
3/18/2025 21:28	44201	POIN_T1	0	0	0	0	0	0	-2.34	-2.31	1	1	0	1200	1200	0
3/18/2025 21:28	53501	EVIL_T2	0	2	2	0	0.4	0.4	-0.26	-0.31	0	0	0	0	0	0
3/18/2025 21:28	66505	SMAN_T2	3	3	0	1.5	1.63	0.13	0	0	0	0	0	0	0	0
3/18/2025 21:28	57205	ROSS_T1	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
3/18/2025 21:28	46001	BERW_T1	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
3/18/2025 21:28	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:28	57403	SPAN_T1	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
3/18/2025 21:28	61103	BERK_T5	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/18/2025 21:28	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:28	54505	ENOL_T2	1	1	0	0.6	0.6	0	-2.8	-2.82	2	2	0	1200	1200	0
3/18/2025 21:28	40101	HUNT_T2	0	1	1	0	0	0	-1.74	-1.78	0	0	0	0	0	0
3/18/2025 21:28	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:28	61101	BERK_T5	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:28	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:28	54501	ENOL_T2	0	0	0	0	0	0	0.05	0.06	0	0	0	0	0	0
3/18/2025 21:28	46102	MACL_T1	35	67	32	0.15	0.19	0.04	0.63	0.62	0	0	0	0	0	0
3/18/2025 21:28	57401	SPAN_T1	2	2	0	0.95	0.95	0	0.44	0.35	0	0	0	0	0	0
3/18/2025 21:28	49803	UNIV_T1	1	1	0	5.5	5.5	0	-1.23	-1.27	0	0	0	0	0	0
3/18/2025 21:28	52502	PROG_T2	0	0	0	0	0	0	-0.77	-0.78	1	1	0	900	900	0
3/18/2025 21:29	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
3/18/2025 21:29	57304	MOAL_T2	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/18/2025 21:29	52403	GRPA_T2	2	9	7	0.3	0.18	-0.12	-0.66	-0.65	0	0	0	0	0	0
3/18/2025 21:29	52101	MEIS_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/18/2025 21:29	47101	MARL_T1	0	1	1	0	0	0	-1.3	-1.34	0	0	0	0	0	0
3/18/2025 21:29	54502	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:29	54503	ENOL_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	600	600	0
3/18/2025 21:29	41901	REED_T1	8	9	1	0.35	0.51	0.16	0	0	0	0	0	0	0	0
3/18/2025 21:29	57301	MOAL_T2	7	7	0	0.3	0.34	0.04	0	0	0	0	0	0	0	0
3/18/2025 21:29	57203	ROSS_T1	61	99	38	0.11	0.11	0	0	0	0	0	0	0	0	0
3/18/2025 21:29	44802	EDAN_T2	0	0	0	0	0	0	-1.05	-1.08	0	0	0	0	0	0
3/18/2025 21:29	67605	WARW_T1	18	29	11	0.52	0.61	0.09	-2.38	-2.38	0	0	0	0	0	0
3/18/2025 21:29	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/18/2025 21:29	57401	SPAN_T1	2	2	0	0.95	0.95	0	0	0	0	0	0	0	0	0
3/18/2025 21:29	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.25	1	1	0	600	600	0
3/18/2025 21:29	41902	REED_T1	0	0	0	0	0	0	1.07	0.97	0	0	0	0	0	0
3/18/2025 21:29	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:29	52402	GRPA_T2	5	5	0	1.02	1.1	0.08	0	0	0	0	0	0	0	0
3/18/2025 21:29	54505	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/18/2025 21:29	57403	SPAN_T1	0	0	0	0	0	0	-0.14	-0.12	0	0	0	0	0	0
3/18/2025 21:29	57201	ROSS_T1	182	235	53	0.33	0.29	-0.04	-1.42	-1.45	0	0	0	0	0	0
3/18/2025 21:29	57306	MOAL_T2	0	0	0	0	0	0	-3.31	-3.31	1	1	0	1200	1200	0
3/18/2025 21:29	46203	DANV_T2	290	337	47	0.77	0.96	0.19	-1.14	-1.12	0	0	0	0	0	0
3/18/2025 21:29	67604	WARW_T1	0	0	0	0	0	0	0.51	0.5	0	0	0	0	0	0
3/18/2025 21:29	46506	LOHA_T1	4	4	0	3	3.35	0.35	0	0	0	0	0	0	0	0
3/18/2025 21:29	57303	MOAL_T2	1	1	0	7	6.8	-0.2	0	0	0	0	0	0	0	0
3/18/2025 21:29	52404	GRPA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/18/2025 21:30	53902	HALI_T2	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:30	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	-1.4	-1.41	1	1	0	600	600	0
3/18/2025 21:30	67401	WAKE_T2	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:30	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	-2.13	-2.08	1	1	0	600	600	0
3/18/2025 21:30	46001	BERW_T1	0	0	0	0	0	0	0.56	0.52	0	0	0	0	0	0
3/18/2025 21:30	53903	HALI_T2	2	2	0	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
3/18/2025 21:30	52404	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:30	43801	SWIL_T1	6	2	-4	1.17	3.3	2.13	0	0	0	0	0	0	0	0
3/18/2025 21:30	57203	ROSS_T1	70	141	71	0.11	0.11	0	0	0	0	0	0	0	0	0
3/18/2025 21:30	53901	HALI_T2	1	1	0	1.2	1.4	0.2	-1.08	-1.07	0	0	0	0	0	0
3/18/2025 21:30	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:30	67402	WAKE_T2	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
3/18/2025 21:30	57205	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:30	52402	GRPA_T2	5	4	-1	1.1	1.13	0.03	0	0	0	0	0	0	0	0
3/18/2025 21:30	52401	GRPA_T2	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:30	41902	REED_T1	0	0	0	0	0	0	1.07	0.97	0	0	0	0	0	0
3/18/2025 21:30	43802	SWIL_T1	0	0	0	0	0	0	-0.3	-0.25	1	1	0	600	600	0
3/18/2025 21:30	52403	GRPA_T2	9	12	3	0.18	0.27	0.09	-0.66	-0.65	0	0	0	0	0	0
3/18/2025 21:30	61304	EARL_T1	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
3/18/2025 21:30	46506	LOHA_T1	4	4	0	2.9	3.43	0.53	-0.25	-0.25	0	0	0	0	0	0
3/18/2025 21:30	57401	SPAN_T1	2	2	0	0.95	1.2	0.25	0.22	0.17	0	0	0	0	0	0
3/18/2025 21:30	67901	WNHO_T2	0	0	0	0	0	0	-0.64	-0.65	1	1	0	900	900	0
3/18/2025 21:30	41901	REED_T1	9	9	0	0.43	0.51	0.08	0	0	0	0	0	0	0	0
3/18/2025 21:30	57201	ROSS_T1	206	300	94	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
3/18/2025 21:30	64101	REFR_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
3/18/2025 21:31	64904	MILL_T1	0	0	0	0	0	0	0.35	0.41	0	0	0	0	0	0
3/18/2025 21:31	42902	MIDD_T2	0	0	0	0	0	0	-0.46	-0.49	0	0	0	0	0	0
3/18/2025 21:31	44201	POIN_T1	0	0	0	0	0	0	-2.34	-2.31	1	1	0	1200	1200	0
3/18/2025 21:31	52402	GRPA_T2	5	4	-1	1.1	1.13	0.03	0	0	0	0	0	0	0	0
3/18/2025 21:31	41901	REED_T1	9	9	0	0.43	0.51	0.08	0	0	0	0	0	0	0	0
3/18/2025 21:31	58402	MORO_T1	0	0	0	0	0	0	-0.26	0.36	2	1	-1	1500	900	-600
3/18/2025 21:31	57201	ROSS_T1	206	300	94	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
3/18/2025 21:31	66504	SMAN_T2	0	0	0	0	0	0	-0.71	-0.79	0	0	0	0	0	0
3/18/2025 21:31	52501	PROG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:31	47203	FAXO_T2	0	0	0	0	0	0	-0.44	-0.45	0	0	0	0	0	0
3/18/2025 21:31	59402	RFLD_T2	4	14	10	0.25	0.26	0.01	-0.44	-0.43	0	0	0	0	0	0
3/18/2025 21:31	53902	HALI_T2	1	1	0	6	6.1	0.1	-0.3	-0.3	0	0	0	0	0	0
3/18/2025 21:31	41301	FISH_T1	61	249	188	0.21	0.26	0.05	-0.36	-0.39	0	0	0	0	0	0
3/18/2025 21:31	53901	HALI_T2	1	1	0	1.2	1.4	0.2	-3.24	-3.21	0	0	0	0	0	0
3/18/2025 21:31	46506	LOHA_T1	4	4	0	2.9	3.43	0.53	-0.25	-0.25	0	0	0	0	0	0
3/18/2025 21:31	49803	UNIV_T1	1	1	0	5.5	5.3	-0.2	-1.23	-1.27	0	0	0	0	0	0
3/18/2025 21:31	58401	MORO_T1	0	0	0	0	0	0	-1.22	-1.25	1	1	0	600	600	0
3/18/2025 21:31	40802	EXCH_T2	0	0	0	0	0	0	-0.27	-0.28	0	0	0	0	0	0
3/18/2025 21:31	52404	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:31	45501	DERR_T2	0	1	1	0	0.7	0.7	-0.01	-0.15	2	2	0	1800	1800	0
3/18/2025 21:31	58202	NEWV_T1	3	8	5	0.13	0.45	0.32	-0.03	-0.27	0	0	0	0	0	0
3/18/2025 21:31	66505	SMAN_T2	3	3	0	1.6	2.07	0.47	0	0	0	0	0	0	0	0
3/18/2025 21:31	41202	KENM_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:31	57203	ROSS_T1	70	141	71	0.11	0.11	0	0.27	0.27	0	0	0	0	0	0
3/18/2025 21:31	53903	HALI_T2	2	2	0	1.7	1.4	-0.3	0	0	0	0	0	0	0	0
3/18/2025 21:31	52401	GRPA_T2	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:31	61304	EARL_T1	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
3/18/2025 21:31	41201	KENM_T2	2	11	9	0.1	0.11	0.01	0	0	0	0	0	0	0	0
3/18/2025 21:31	67605	WARW_T1	24	38	14	0.58	0.61	0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/18/2025 21:31	52403	GRPA_T2	9	12	3	0.18	0.27	0.09	0	0	0	0	0	0	0	0
3/18/2025 21:31	44202	POIN_T2	0	0	0	0	0	0	-0.68	-0.67	1	1	0	1200	1200	0
3/18/2025 21:31	41305	FISH_T1	4	48	44	0.13	0.18	0.05	0	0	0	0	0	0	0	0
3/18/2025 21:31	41204	KENM_T2	0	0	0	0	0	0	-0.05	-0.05	0	0	0	0	0	0
3/18/2025 21:31	41902	REED_T1	0	0	0	0	0	0	1.07	0.97	0	0	0	0	0	0
3/18/2025 21:31	66501	SMAN_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:31	64901	MILL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:32	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:32	46506	LOHA_T1	4	4	0	2.9	3.43	0.53	0	0	0	0	0	0	0	0
3/18/2025 21:32	55003	NEWP_T2	6	8	2	0.22	0.29	0.07	0	0	0	0	0	0	0	0
3/18/2025 21:32	54503	ENOL_T2	0	0	0	0	0	0	-0.51	-0.5	1	1	0	600	600	0
3/18/2025 21:32	58202	NEWV_T1	3	8	5	0.13	0.45	0.32	-0.03	-0.27	0	0	0	0	0	0
3/18/2025 21:32	44802	EDAN_T2	0	0	0	0	0	0	-1.05	-1.08	0	0	0	0	0	0
3/18/2025 21:32	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:32	44301	BEAV_T2	0	0	0	0	0	0	0.24	0.09	1	1	0	600	600	0
3/18/2025 21:33	59202	THOM_T1	315	307	-8	0.44	0.4	-0.04	0	0	0	0	0	0	0	0
3/18/2025 21:33	53901	HALI_T2	1	1	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
3/18/2025 21:33	53903	HALI_T2	2	2	0	1.7	1.4	-0.3	-0.19	-0.17	0	0	0	0	0	0
3/18/2025 21:33	59201	THOM_T1	20	20	0	0.56	0.57	0.01	0	0	0	0	0	0	0	0
3/18/2025 21:33	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.64	0	0	0	0	0	0
3/18/2025 21:33	46506	LOHA_T1	4	4	0	2.9	3.43	0.53	0	0	0	0	0	0	0	0
3/18/2025 21:33	44302	BEAV_T2	0	0	0	0	0	0	0.23	0.23	0	0	0	0	0	0
3/18/2025 21:33	53902	HALI_T2	1	1	0	6	6.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:34	51305	WIND_T1	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
3/18/2025 21:34	52401	GRPA_T2	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:34	52404	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:34	52402	GRPA_T2	5	4	-1	1.1	1.13	0.03	0	0	0	0	0	0	0	0
3/18/2025 21:34	52403	GRPA_T2	9	12	3	0.18	0.27	0.09	0	0	0	0	0	0	0	0
3/18/2025 21:35	52401	GRPA_T2	0	9	9	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:35	44802	EDAN_T2	0	0	0	0	0	0	-1.05	-1.08	0	0	0	0	0	0
3/18/2025 21:35	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:35	54503	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:35	52402	GRPA_T2	5	4	-1	1.1	1.13	0.03	0	0	0	0	0	0	0	0
3/18/2025 21:35	52403	GRPA_T2	9	12	3	0.18	0.27	0.09	-0.66	-0.65	0	0	0	0	0	0
3/18/2025 21:35	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:35	52404	GRPA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:42	62101	ELAN_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/18/2025 21:42	54502	ENOL_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:42	42701	AUGU_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
3/18/2025 21:42	62105	ELAN_T1	158	53	-105	0.16	0.1	-0.06	0.35	0.34	0	0	0	0	0	0
3/18/2025 21:42	62102	ELAN_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:42	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:42	54503	ENOL_T2	0	0	0	0	0	0	-0.5	-0.53	1	1	0	600	600	0
3/18/2025 21:42	62103	ELAN_T1	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/18/2025 21:42	62106	ELAN_T1	27	8	-19	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
3/18/2025 21:46	41902	REED_T1	0	0	0	0	0	0	0.97	1.01	0	0	0	0	0	0
3/18/2025 21:46	41901	REED_T1	9	8	-1	0.51	0.49	-0.02	0	0	0	0	0	0	0	0
3/18/2025 21:48	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 21:48	64201	KINZ_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/18/2025 21:48	55003	NEWP_T2	8	5	-3	0.29	0.16	-0.13	0	0	0	0	0	0	0	0
3/18/2025 21:48	64204	KINZ_T1	1	1	0	1	1.6	0.6	0	0	0	0	0	0	0	0
3/18/2025 21:48	64202	KINZ_T1	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
3/18/2025 21:55	57403	SPAN_T1	0	0	0	0	0	0	-0.08	-0.06	0	0	0	0	0	0
3/18/2025 21:55	57401	SPAN_T1	2	2	0	0.85	1.2	0.35	0	0	0	0	0	0	0	0
3/18/2025 21:58	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/18/2025 21:58	54502	ENOL_T2	1	1	0	0.9	0.9	0	-2.06	-2.09	1	1	0	600	600	0
3/18/2025 22:00	17401	FOHI_T1	0	0	0	0	0	0	-1.03	-1.04	0	0	0	0	0	0
3/18/2025 22:14	13801	SALI_T1	0	0	0	0	0	0	0.7	0.62	0	0	0	0	0	0
3/18/2025 22:34	50624	CCTY_T2	2	2	0	6.25	6.1	-0.15	0	0	0	0	0	0	0	0
3/18/2025 22:34	20402	ASHF_T2	5	5	0	0.22	0.22	0	0	0	0	0	0	0	0	0
3/18/2025 22:34	50623	CCTY_T2	6	6	0	6.17	6.28	0.11	0	0	0	0	0	0	0	0
3/18/2025 22:34	50625	CCTY_T2	6	6	0	3.45	3.37	-0.08	0	0	0	0	0	0	0	0
3/18/2025 22:34	20403	ASHF_T2	0	1	1	0	0.1	0.1	0.03	0.03	0	0	0	0	0	0
3/18/2025 22:34	20401	ASHF_T2	4	6	2	0.2	0.33	0.13	0	0	0	0	0	0	0	0
3/18/2025 22:34	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 22:35	47201	FAXO_T2	0	0	0	0	0	0	-2.38	-2.36	1	1	0	1200	1200	0
3/18/2025 22:40	10203	ALLE_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 22:40	10206	ALLE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/18/2025 22:40	10201	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 22:40	10102	ALLE_T2	24	24	0	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
3/18/2025 22:43	55003	NEWP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/18/2025 22:52	28102	TWLA_T2	10	19	9	0.24	0.43	0.19	0.15	0.15	0	0	0	0	0	0
3/18/2025 23:53	16102	BING_T2	16	16	0	0.22	0.23	0.01	0	0	0	0	0	0	0	0
3/19/2025 1:45	52403	GRPA_T2	0	1	1	0	0.4	0.4	-0.7	-0.67	0	0	0	0	0	0
3/19/2025 1:45	52402	GRPA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 6:20	16101	BING_T2	0	0	0	0	0	0	0.33	0.34	0	0	0	0	0	0
3/19/2025 7:38	67001	STHI_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/19/2025 7:38	67002	STHI_T2	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
3/19/2025 7:41	52503	PROG_T2	0	0	0	0	0	0	0.45	0.37	0	0	0	0	0	0
3/19/2025 7:46	53501	EVIL_T2	1	2	1	1.2	0.9	-0.3	0	0	0	0	0	0	0	0
3/19/2025 7:46	53502	EVIL_T2	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/19/2025 7:50	55002	NEWP_T1	0	6	6	0	0.48	0.48	-0.24	-0.24	0	0	0	0	0	0
3/19/2025 7:57	67605	WARW_T1	1	12	11	0.2	0.25	0.05	-0.89	-0.95	0	0	0	0	0	0
3/19/2025 7:57	66901	SHIL_T2	0	0	0	0	0	0	-1.82	-1.83	1	1	0	1200	1200	0
3/19/2025 8:11	63804	HEMP_T1	1	1	0	5.8	5.4	-0.4	0	0	0	0	0	0	0	0
3/19/2025 8:11	63801	HEMP_T1	0	0	0	0	0	0	-0.77	-0.81	1	1	0	900	900	0
3/19/2025 8:12	63803	HEMP_T1	0	0	0	0	0	0	0.53	0.54	0	0	0	0	0	0
3/19/2025 8:12	63804	HEMP_T1	1	1	0	5.8	5.4	-0.4	0	0	0	0	0	0	0	0
3/19/2025 8:13	40505	CRES_T1	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
3/19/2025 8:13	40504	CRES_T1	0	0	0	0	0	0	-0.41	-0.47	0	0	0	0	0	0
3/19/2025 8:17	40504	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 8:19	40505	CRES_T1	0	0	0	0	0	0	0.3	0.27	0	0	0	0	0	0
3/19/2025 8:28	45501	DERR_T2	0	1	1	0	0.2	0.2	0.46	0.51	2	2	0	1800	1800	0
3/19/2025 8:28	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 8:32	53501	EVIL_T2	2	6	4	1.05	1.2	0.15	0	0	0	0	0	0	0	0
3/19/2025 8:33	40801	EXCH_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/19/2025 8:33	40802	EXCH_T2	1	1	0	0.2	0.6	0.4	-0.45	-0.48	0	0	0	0	0	0
3/19/2025 8:35	53803	MBRG_T2	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
3/19/2025 8:37	53802	MBRG_T2	0	0	0	0	0	0	1.12	1.12	0	0	0	0	0	0
3/19/2025 8:37	21203	ECAR_T1	0	0	0	0	0	0	-0.21	-0.24	0	0	0	0	0	0
3/19/2025 8:39	63501	HEID_TBK1-2	1	3	2	0.5	0.6	0.1	0.06	0.15	1	1	0	900	900	0
3/19/2025 8:39	64902	MILL_T2	0	0	0	0	0	0	0.22	0.25	0	0	0	0	0	0
3/19/2025 8:40	63501	HEID_TBK1-2	1	3	2	0.5	0.6	0.1	0.06	0.15	1	1	0	900	900	0
3/19/2025 8:40	55002	NEWP_T1	6	7	1	0.57	0.77	0.2	0	0	0	0	0	0	0	0
3/19/2025 8:40	55001	NEWP_T1	0	0	0	0	0	0	-0.31	-0.32	0	0	0	0	0	0
3/19/2025 8:41	63501	HEID_TBK1-2	1	3	2	0.5	0.6	0.1	0.06	0.15	1	1	0	900	900	0
3/19/2025 8:43	46203	DANV_T2	120	280	160	0.59	0.7	0.11	-0.93	-1.01	0	0	0	0	0	0
3/19/2025 8:43	40501	CRES_T2	8	8	0	0.19	0.31	0.12	0	0	0	0	0	0	0	0
3/19/2025 8:43	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 8:44	40501	CRES_T2	8	8	0	0.19	0.31	0.12	0	0	0	0	0	0	0	0
3/19/2025 8:44	46203	DANV_T2	120	280	160	0.59	0.7	0.11	-0.93	-1.01	0	0	0	0	0	0
3/19/2025 8:44	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 8:45	40501	CRES_T2	8	9	1	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
3/19/2025 8:46	40501	CRES_T2	8	9	1	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
3/19/2025 8:46	46203	DANV_T2	171	312	141	0.65	0.83	0.18	-0.93	-1.01	0	0	0	0	0	0
3/19/2025 8:46	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 8:46	46201	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 8:46	46206	DANV_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/19/2025 8:47	46203	DANV_T2	171	312	141	0.65	0.83	0.18	-0.93	-1.01	0	0	0	0	0	0
3/19/2025 8:47	46201	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 8:47	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 8:47	46206	DANV_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/19/2025 8:48	40501	CRES_T2	8	9	1	0.31	0.29	-0.02	0	0	0	0	0	0	0	0
3/19/2025 8:55	65901	SAKR_T2	0	0	0	0	0	0	-1.18	-1.2	1	1	0	900	900	0
3/19/2025 8:55	55102	WERT_T2	0	0	0	0	0	0	-0.48	-0.55	2	2	0	1200	1200	0
3/19/2025 8:56	55102	WERT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 9:00	54205	PENN_T1	2	9	7	0.1	0.1	0	0	0	0	0	0	0	0	0
3/19/2025 9:00	54201	PENN_T1	15	17	2	0.53	0.52	-0.01	0.09	0.1	0	0	0	0	0	0
3/19/2025 9:00	55102	WERT_T2	0	0	0	0	0	0	-0.48	-0.55	2	2	0	1200	1200	0
3/19/2025 9:00	54203	PENN_T1	21	29	8	1	0.81	-0.19	-0.04	-0.06	0	0	0	0	0	0
3/19/2025 9:01	54206	PENN_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
3/19/2025 9:01	54202	PENN_T2	3	4	1	0.4	0.4	0	0	0	0	0	0	0	0	0
3/19/2025 9:03	54203	PENN_T1	21	29	8	1	0.81	-0.19	-0.04	-0.06	0	0	0	0	0	0
3/19/2025 9:03	54201	PENN_T1	15	17	2	0.53	0.52	-0.01	0.09	0.1	0	0	0	0	0	0
3/19/2025 9:03	54205	PENN_T1	2	9	7	0.1	0.1	0	0	0	0	0	0	0	0	0
3/19/2025 9:03	53502	EVIL_T2	2	2	0	1.2	1.1	-0.1	-0.96	-0.99	2	2	0	1200	1200	0
3/19/2025 9:04	40801	EXCH_T2	1	1	0	0.3	0.2	-0.1	-0.56	-0.56	1	1	0	1200	1200	0
3/19/2025 9:04	40802	EXCH_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/19/2025 9:05	46803	HEPB_T2	4	6	2	0.23	0.28	0.05	0.48	0.49	0	0	0	0	0	0
3/19/2025 9:05	41202	KENM_T2	1	1	0	0.8	0.4	-0.4	-0.55	-0.57	0	0	0	0	0	0
3/19/2025 9:05	46801	HEPB_T2	19	21	2	0.28	0.29	0.01	0	0	0	0	0	0	0	0
3/19/2025 9:09	44701	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 9:10	64802	MONE_T2	131	149	18	0.59	0.56	-0.03	0	0	0	0	0	0	0	0
3/19/2025 9:10	44701	MUNC_T2	0	0	0	0	0	0	-1.06	-1.02	0	0	0	0	0	0
3/19/2025 9:10	64801	MONE_T2	165	167	2	0.81	0.86	0.05	0	0	0	0	0	0	0	0
3/19/2025 9:11	64802	MONE_T2	131	149	18	0.59	0.56	-0.03	0	0	0	0	0	0	0	0
3/19/2025 9:11	55002	NEWP_T1	7	7	0	0.66	0.96	0.3	-0.24	-0.25	0	0	0	0	0	0
3/19/2025 9:11	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 9:11	64801	MONE_T2	165	167	2	0.81	0.86	0.05	0.33	0.28	0	0	0	0	0	0
3/19/2025 9:12	55001	NEWP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 9:12	55002	NEWP_T1	7	7	0	0.66	0.96	0.3	-0.24	-0.25	0	0	0	0	0	0
3/19/2025 9:19	41801	GOCI_T2	2	175	173	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/19/2025 9:19	54504	ENOL_T2	0	2	2	1.2	1.1	-0.1	-1.17	-1.17	1	1	0	600	600	0
3/19/2025 9:19	54505	ENOL_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
3/19/2025 9:19	54502	ENOL_T2	1	1	0	1.2	1	-0.2	0	0	0	0	0	0	0	0
3/19/2025 9:20	41801	GOCI_T2	2	175	173	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/19/2025 9:20	65503	MOJO_T2	0	0	0	0	0	0	-0.89	-0.9	1	1	0	900	900	0
3/19/2025 9:20	65502	MOJO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 9:20	24103	EHAZ_T1	0	0	0	0	0	0	-1.41	-1.34	0	0	0	0	0	0
3/19/2025 9:20	24101	EHAZ_T1	17	13	-4	0.69	0.4	-0.29	0	0	0	0	0	0	0	0
3/19/2025 9:20	24102	EHAZ_T1	3	10	7	1.57	1.3	-0.27	0	0	0	0	0	0	0	0
3/19/2025 9:20	24105	EHAZ_T1	4	4	0	6.45	5.98	-0.47	0	0	0	0	0	0	0	0
3/19/2025 9:21	65502	MOJO_T2	0	1	1	0	0.2	0.2	-0.1	-0.14	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 9:23	65502	MOJO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 9:26	65502	MOJO_T2	0	1	1	0	0.2	0.2	-0.1	-0.14	0	0	0	0	0	0
3/19/2025 9:30	60801	BUCK_T1	1	4	3	0.2	0.28	0.08	-0.04	0.05	0	0	0	0	0	0
3/19/2025 9:30	60803	BUCK_T1	2	13	11	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/19/2025 9:32	57401	SPAN_T1	29	63	34	0.34	0.28	-0.06	-1.99	-2.18	2	2	0	1200	1200	0
3/19/2025 9:32	57403	SPAN_T1	10	38	28	0.21	0.28	0.07	0	0	0	0	0	0	0	0
3/19/2025 9:33	41801	GOCI_T2	22	177	155	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/19/2025 9:33	57403	SPAN_T1	10	38	28	0.21	0.28	0.07	0	0	0	0	0	0	0	0
3/19/2025 9:33	57401	SPAN_T1	29	63	34	0.34	0.28	-0.06	-0.99	-1.09	1	1	0	600	600	0
3/19/2025 9:34	57401	SPAN_T1	29	63	34	0.34	0.28	-0.06	-1.99	-2.18	2	2	0	1200	1200	0
3/19/2025 9:34	57403	SPAN_T1	10	38	28	0.21	0.28	0.07	0	0	0	0	0	0	0	0
3/19/2025 9:34	41801	GOCI_T2	22	177	155	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/19/2025 9:36	41801	GOCI_T2	22	177	155	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/19/2025 9:38	55001	NEWP_T1	0	1	1	0	0.2	0.2	-0.32	-0.29	0	0	0	0	0	0
3/19/2025 9:38	57403	SPAN_T1	10	38	28	0.21	0.28	0.07	0	0	0	0	0	0	0	0
3/19/2025 9:38	57401	SPAN_T1	29	63	34	0.34	0.28	-0.06	-1.09	-0.56	1	0	-1	600	0	-600
3/19/2025 9:38	55002	NEWP_T1	7	8	1	0.63	0.96	0.33	0	0	0	0	0	0	0	0
3/19/2025 9:39	52101	MEIS_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/19/2025 9:39	52102	MEIS_T1	1	2	1	0.9	0.2	-0.7	0	0	1	1	0	450	450	0
3/19/2025 9:43	67603	WARW_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/19/2025 9:43	67605	WARW_T1	28	40	12	0.47	0.59	0.12	0	0	0	0	0	0	0	0
3/19/2025 9:44	10901	COOP_T2	0	1	1	0	0.1	0.1	-0.54	-0.52	1	1	0	1200	1200	0
3/19/2025 9:44	10903	COOP_T2	4	4	0	0.33	0.53	0.2	0	0	0	0	0	0	0	0
3/19/2025 9:45	40501	CRES_T2	10	4	-6	0.32	0.35	0.03	0	0	0	0	0	0	0	0
3/19/2025 9:45	62106	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 9:45	62102	ELAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/19/2025 9:45	62105	ELAN_T1	3	3	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/19/2025 9:47	62105	ELAN_T1	3	3	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/19/2025 9:47	10901	COOP_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 9:47	10903	COOP_T2	4	3	-1	0.4	0.63	0.23	0	0	0	0	0	0	0	0
3/19/2025 9:47	62106	ELAN_T1	0	1	1	0	0.2	0.2	1.25	1.14	0	0	0	0	0	0
3/19/2025 9:47	62102	ELAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/19/2025 9:48	40501	CRES_T2	10	4	-6	0.32	0.35	0.03	0	0	0	0	0	0	0	0
3/19/2025 9:49	62106	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 9:49	62102	ELAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/19/2025 9:49	62105	ELAN_T1	3	3	0	0.3	0.5	0.2	0.34	0.35	0	0	0	0	0	0
3/19/2025 9:50	62105	ELAN_T1	3	3	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/19/2025 9:50	62102	ELAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/19/2025 9:50	62106	ELAN_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 9:52	46802	HEPB_T1	1	1	0	1	1	0	-0.38	-0.39	0	0	0	0	0	0
3/19/2025 9:54	59402	RFLD_T2	0	0	0	0	0	0	-0.29	-0.32	1	1	0	450	450	0
3/19/2025 9:55	58101	NEKI_T1	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/19/2025 9:55	44902	SCOT_T2	661	686	25	0.52	0.53	0.01	0	0	0	0	0	0	0	0
3/19/2025 9:55	58102	NEKI_T1	1	2	1	0.8	0.55	-0.25	0.34	0.25	0	0	0	0	0	0
3/19/2025 9:55	44901	SCOT_T2	79	89	10	0.23	0.24	0.01	0.19	0.23	0	0	0	0	0	0
3/19/2025 9:56	44901	SCOT_T2	79	89	10	0.23	0.24	0.01	0.19	0.23	0	0	0	0	0	0
3/19/2025 9:56	67402	WAKE_T2	0	1	1	0	0.3	0.3	0.37	0.31	1	1	0	600	600	0
3/19/2025 9:56	59402	RFLD_T2	0	0	0	0	0	0	-0.29	-0.32	1	1	0	450	450	0
3/19/2025 9:56	44902	SCOT_T2	661	686	25	0.52	0.53	0.01	0	0	0	0	0	0	0	0
3/19/2025 9:56	67401	WAKE_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
3/19/2025 9:57	67402	WAKE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/19/2025 9:57	60803	BUCK_T1	10	13	3	0.15	0.18	0.03	0	0	0	0	0	0	0	0
3/19/2025 9:57	60801	BUCK_T1	1	4	3	0.4	0.33	-0.07	-0.02	0	0	0	0	0	0	0
3/19/2025 9:57	44902	SCOT_T2	661	686	25	0.52	0.53	0.01	-0.97	-0.94	0	0	0	0	0	0
3/19/2025 9:57	59402	RFLD_T2	0	0	0	0	0	0	-0.29	-0.32	1	1	0	450	450	0
3/19/2025 9:57	44901	SCOT_T2	79	89	10	0.23	0.24	0.01	0	0	0	0	0	0	0	0
3/19/2025 9:57	67401	WAKE_T2	1	2	1	0.1	0.35	0.25	-0.86	-0.77	0	0	0	0	0	0
3/19/2025 9:58	67401	WAKE_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
3/19/2025 9:58	67605	WARW_T1	39	35	-4	0.6	0.57	-0.03	-1.01	-1.05	0	0	0	0	0	0
3/19/2025 9:58	44901	SCOT_T2	79	89	10	0.23	0.24	0.01	0	0	0	0	0	0	0	0
3/19/2025 9:58	60803	BUCK_T1	10	13	3	0.15	0.18	0.03	0	0	0	0	0	0	0	0
3/19/2025 9:58	60801	BUCK_T1	1	4	3	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
3/19/2025 9:58	67402	WAKE_T2	0	1	1	0	0.3	0.3	0.37	0.31	1	1	0	600	600	0
3/19/2025 9:58	67603	WARW_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/19/2025 9:58	44902	SCOT_T2	661	686	25	0.52	0.53	0.01	-0.97	-0.94	0	0	0	0	0	0
3/19/2025 9:58	52502	PROG_T2	0	1	1	0	0.4	0.4	-0.75	-0.67	1	1	0	900	900	0
3/19/2025 9:58	67303	WYOM_T2	0	2	2	0	0.2	0.2	-0.59	-0.6	0	0	0	0	0	0
3/19/2025 9:59	52502	PROG_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/19/2025 9:59	60801	BUCK_T1	1	4	3	0.4	0.33	-0.07	-0.02	0	0	0	0	0	0	0
3/19/2025 9:59	60803	BUCK_T1	10	13	3	0.15	0.18	0.03	0	0	0	0	0	0	0	0
3/19/2025 10:00	21203	ECAR_T1	0	2	2	0	0.35	0.35	-0.22	-0.12	0	0	0	0	0	0
3/19/2025 10:00	40801	EXCH_T2	1	1	0	0.5	0.5	0	-0.58	-0.53	1	1	0	1200	1200	0
3/19/2025 10:00	46803	HEPB_T2	1	0	-1	0.5	0	-0.5	0.49	0.44	0	0	0	0	0	0
3/19/2025 10:00	61302	EARL_T1	0	1	1	0	0.2	0.2	0.69	0.85	2	2	0	1800	1800	0
3/19/2025 10:00	67502	WEWI_T2	9	82	73	0.4	0.24	-0.16	0	0	0	0	0	0	0	0
3/19/2025 10:00	10203	ALLE_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/19/2025 10:00	28102	TWLA_T2	0	4	4	0	6.6	6.6	0.2	0.19	0	0	0	0	0	0
3/19/2025 10:00	54501	ENOL_T2	0	4	4	0	0.15	0.15	0.06	0.07	0	0	0	0	0	0
3/19/2025 10:00	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 10:00	40802	EXCH_T2	1	1	0	0.1	0.5	0.4	0.18	0.11	0	0	0	0	0	0
3/19/2025 10:00	41202	KENM_T2	1	1	0	0.2	0.2	0	0.46	0.44	0	0	0	0	0	0
3/19/2025 10:00	46801	HEPB_T2	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
3/19/2025 10:00	67503	WEWI_T2	3	4	1	0.17	0.25	0.08	-0.16	-0.16	0	0	0	0	0	0
3/19/2025 10:00	63803	HEMP_T1	1	2	1	0.3	0.45	0.15	0.08	0.07	0	0	0	0	0	0
3/19/2025 10:00	10102	ALLE_T2	1	1	0	6.2	6.4	0.2	0	0	0	0	0	0	0	0
3/19/2025 10:00	62105	ELAN_T1	3	4	1	0.47	0.38	-0.09	0.35	0.34	0	0	0	0	0	0
3/19/2025 10:00	46802	HEPB_T1	1	1	0	1	0.8	-0.2	-0.38	-0.39	0	0	0	0	0	0
3/19/2025 10:00	63804	HEMP_T1	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/19/2025 10:00	54504	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/19/2025 10:00	62106	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/19/2025 10:00	54502	ENOL_T2	1	6	5	1.3	0.35	-0.95	0	0	0	0	0	0	0	0
3/19/2025 10:00	57403	SPAN_T1	18	42	24	0.24	0.33	0.09	0	0	0	0	0	0	0	0
3/19/2025 10:00	40505	CRES_T1	1	3	2	0.1	0.4	0.3	0.27	0.24	0	0	0	0	0	0
3/19/2025 10:00	62102	ELAN_T1	1	2	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/19/2025 10:00	54505	ENOL_T2	2	2	0	0.4	1.15	0.75	0	0	0	0	0	0	0	0
3/19/2025 10:00	57401	SPAN_T1	21	13	-8	0.36	0.48	0.12	0	0	0	0	0	0	0	0
3/19/2025 10:00	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 10:00	63801	HEMP_T1	1	2	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/19/2025 10:01	57401	SPAN_T1	21	13	-8	0.36	0.48	0.12	0	0	0	0	0	0	0	0
3/19/2025 10:01	57403	SPAN_T1	18	42	24	0.24	0.33	0.09	-0.03	-0.03	0	0	0	0	0	0
3/19/2025 10:01	42501	ALTA_T2	0	1	1	0	0.1	0.1	-0.1	-0.03	1	1	0	600	600	0
3/19/2025 10:03	42501	ALTA_T2	0	1	1	0	0.1	0.1	-0.2	-0.06	2	2	0	1200	1200	0
3/19/2025 10:05	62102	ELAN_T1	1	2	1	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/19/2025 10:05	62106	ELAN_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/19/2025 10:05	62105	ELAN_T1	3	4	1	0.47	0.38	-0.09	0.35	0.34	0	0	0	0	0	0
3/19/2025 10:06	10801	CHHI_T1	1	1	0	0.3	0.3	0	-0.97	-0.95	1	1	0	900	900	0
3/19/2025 10:06	42501	ALTA_T2	0	1	1	0	0.1	0.1	-0.03	-0.02	1	1	0	600	600	0
3/19/2025 10:08	53902	HALI_T2	1	2	1	5.4	3.15	-2.25	0	0	0	0	0	0	0	0
3/19/2025 10:08	63501	HEID_TBK1-2	4	7	3	0.65	0.63	-0.02	0.08	0.24	1	1	0	900	900	0
3/19/2025 10:08	53903	HALI_T2	2	4	2	0.8	0.78	-0.02	0	0	0	0	0	0	0	0
3/19/2025 10:08	53901	HALI_T2	1	2	1	0.6	0.6	0	-1.04	-1.1	0	0	0	0	0	0
3/19/2025 10:09	47402	PENS_T1	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
3/19/2025 10:09	57203	ROSS_T1	0	801	801	0	0.34	0.34	0	0	0	0	0	0	0	0
3/19/2025 10:09	57205	ROSS_T1	3	510	507	0.7	0.22	-0.48	0	0	0	0	0	0	0	0
3/19/2025 10:09	47403	PENS_T1	2	4	2	0.75	0.75	0	0	0	0	0	0	0	0	0
3/19/2025 10:09	47401	PENS_T1	7	9	2	0.61	0.82	0.21	0.81	0.81	0	0	0	0	0	0
3/19/2025 10:09	55001	NEWP_T1	1	5	4	0.2	0.34	0.14	-0.29	-0.19	0	0	0	0	0	0
3/19/2025 10:09	57201	ROSS_T1	36	389	353	0.19	0.39	0.2	-1.16	-1.06	0	0	0	0	0	0
3/19/2025 10:09	55002	NEWP_T1	8	17	9	0.96	0.89	-0.07	0	0.26	0	0	0	0	0	0
3/19/2025 10:10	57203	ROSS_T1	0	801	801	0	0.34	0.34	0	0	0	0	0	0	0	0
3/19/2025 10:10	57201	ROSS_T1	36	389	353	0.19	0.39	0.2	-1.16	-1.06	0	0	0	0	0	0
3/19/2025 10:10	57205	ROSS_T1	3	510	507	0.7	0.22	-0.48	0	0	0	0	0	0	0	0
3/19/2025 10:10	63501	HEID_TBK1-2	4	7	3	0.65	0.63	-0.02	0.15	0.48	2	2	0	1800	1800	0
3/19/2025 10:11	58101	NEKI_T1	2	5	3	0.15	0.64	0.49	0	0	0	0	0	0	0	0
3/19/2025 10:11	57205	ROSS_T1	3	510	507	0.7	0.22	-0.48	0.12	0.18	0	0	0	0	0	0
3/19/2025 10:11	58102	NEKI_T1	2	2	0	0.55	0.9	0.35	0.25	0.47	0	0	0	0	0	0
3/19/2025 10:11	63501	HEID_TBK1-2	4	7	3	0.65	0.63	-0.02	0.08	0.24	1	1	0	900	900	0
3/19/2025 10:11	13302	ORVI_T2	0	1	1	0	0.5	0.5	1.43	1.38	0	0	0	0	0	0
3/19/2025 10:11	57203	ROSS_T1	0	801	801	0	0.34	0.34	0	0	0	0	0	0	0	0
3/19/2025 10:11	57201	ROSS_T1	36	389	353	0.19	0.39	0.2	0	0	0	0	0	0	0	0
3/19/2025 10:12	55002	NEWP_T1	8	17	9	0.96	0.89	-0.07	0	0	0	0	0	0	0	0
3/19/2025 10:12	57205	ROSS_T1	3	510	507	0.7	0.22	-0.48	0.12	0.18	0	0	0	0	0	0
3/19/2025 10:12	67605	WARW_T1	34	40	6	0.55	0.66	0.11	0	0	0	0	0	0	0	0
3/19/2025 10:12	57203	ROSS_T1	0	801	801	0	0.34	0.34	0.31	0.34	0	0	0	0	0	0
3/19/2025 10:12	67603	WARW_T1	1	1	0	0.3	0.1	-0.2	-0.03	0.02	0	0	0	0	0	0
3/19/2025 10:12	55001	NEWP_T1	1	5	4	0.2	0.34	0.14	-0.29	-0.19	0	0	0	0	0	0
3/19/2025 10:12	57201	ROSS_T1	36	389	353	0.19	0.39	0.2	0	0	0	0	0	0	0	0
3/19/2025 10:13	67603	WARW_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/19/2025 10:13	60102	COCA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 10:13	67605	WARW_T1	34	40	6	0.55	0.66	0.11	-1.05	-1.07	0	0	0	0	0	0
3/19/2025 10:13	60101	COCA_T1	5	53	48	0.38	0.21	-0.17	-1.02	-1.04	0	0	0	0	0	0
3/19/2025 10:14	15601	NSTR_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 10:14	60201	ATGL_T2	1	1	0	0.1	0.1	0	0.11	0.16	0	0	0	0	0	0
3/19/2025 10:14	67603	WARW_T1	1	1	0	0.3	0.1	-0.2	-0.03	0.02	0	0	0	0	0	0
3/19/2025 10:14	60102	COCA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 10:14	67605	WARW_T1	34	40	6	0.55	0.66	0.11	0	0	0	0	0	0	0	0
3/19/2025 10:14	57201	ROSS_T1	36	389	353	0.19	0.39	0.2	0	0	0	0	0	0	0	0
3/19/2025 10:14	57203	ROSS_T1	0	801	801	0	0.34	0.34	0	0	0	0	0	0	0	0
3/19/2025 10:14	60104	COCA_T2	7	7	0	0.94	1.16	0.22	-0.51	-0.52	1	1	0	600	600	0
3/19/2025 10:14	60101	COCA_T1	5	53	48	0.38	0.21	-0.17	0	0	0	0	0	0	0	0
3/19/2025 10:14	55001	NEWP_T1	1	5	4	0.2	0.34	0.14	-0.29	-0.19	0	0	0	0	0	0
3/19/2025 10:14	60103	COCA_T2	0	0	0	0	0	0	-0.43	-0.31	0	0	0	0	0	0
3/19/2025 10:14	57205	ROSS_T1	3	510	507	0.7	0.22	-0.48	0.12	0.18	0	0	0	0	0	0
3/19/2025 10:14	55002	NEWP_T1	8	17	9	0.96	0.89	-0.07	-0.52	-0.52	0	0	0	0	0	0
3/19/2025 10:15	60101	COCA_T1	8	53	45	0.33	0.21	-0.12	-1.02	-1.04	0	0	0	0	0	0
3/19/2025 10:15	14802	TREI_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/19/2025 10:15	60102	COCA_T1	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
3/19/2025 10:15	14801	TREI_T2	3	7	4	0.23	0.37	0.14	0.26	0.32	0	0	0	0	0	0
3/19/2025 10:16	10801	CHHI_T1	0	1	1	0	0.3	0.3	-0.97	-0.95	1	1	0	900	900	0
3/19/2025 10:16	40801	EXCH_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/19/2025 10:16	60101	COCA_T1	8	53	45	0.33	0.21	-0.12	-1.02	-1.04	0	0	0	0	0	0
3/19/2025 10:16	15601	NSTR_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/19/2025 10:16	54505	ENOL_T2	2	2	0	0.65	1.15	0.5	-1.36	-1.37	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 10:16	54504	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/19/2025 10:16	54502	ENOL_T2	1	7	6	1	0.33	-0.67	0	0	0	0	0	0	0	0
3/19/2025 10:16	40802	EXCH_T2	1	1	0	0.3	0.6	0.3	0.22	0.38	0	0	0	0	0	0
3/19/2025 10:16	60104	COCA_T2	7	7	0	1.06	1.07	0.01	0	0	0	0	0	0	0	0
3/19/2025 10:16	54501	ENOL_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/19/2025 10:16	15602	NSTR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 10:16	60102	COCA_T1	0	3	3	0	0.37	0.37	0.47	0.36	2	2	0	1200	1200	0
3/19/2025 10:16	60103	COCA_T2	0	0	0	0	0	0	-0.43	-0.31	0	0	0	0	0	0
3/19/2025 10:17	54505	ENOL_T2	2	2	0	0.65	1.15	0.5	-1.36	-1.37	1	1	0	600	600	0
3/19/2025 10:17	60102	COCA_T1	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
3/19/2025 10:17	54504	ENOL_T2	0	1	1	0	0.4	0.4	-1.17	-1.17	1	1	0	600	600	0
3/19/2025 10:17	15601	NSTR_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/19/2025 10:17	60101	COCA_T1	8	53	45	0.33	0.21	-0.12	-3.05	-3.12	0	0	0	0	0	0
3/19/2025 10:17	54502	ENOL_T2	1	7	6	1	0.33	-0.67	-2.14	-2.13	1	1	0	600	600	0
3/19/2025 10:17	54501	ENOL_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/19/2025 10:17	60104	COCA_T2	7	7	0	1.06	1.07	0.01	-0.51	-0.52	1	1	0	600	600	0
3/19/2025 10:17	53501	EVIL_T2	1	1	0	0.9	1	0.1	-0.88	-0.9	2	2	0	1200	1200	0
3/19/2025 10:17	15602	NSTR_T2	0	1	1	0	0.2	0.2	0.09	0.08	0	0	0	0	0	0
3/19/2025 10:18	15602	NSTR_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 10:18	15603	NSTR_T2	0	0	0	0	0	0	-0.66	-0.67	0	0	0	0	0	0
3/19/2025 10:18	15601	NSTR_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/19/2025 10:18	23502	GEOR_T1	0	0	0	0	0	0	-0.25	-0.25	0	0	0	0	0	0
3/19/2025 10:18	53501	EVIL_T2	1	1	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/19/2025 10:19	54504	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/19/2025 10:19	54505	ENOL_T2	2	2	0	0.65	1.15	0.5	0	0	0	0	0	0	0	0
3/19/2025 10:19	54501	ENOL_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/19/2025 10:19	54502	ENOL_T2	1	7	6	1	0.33	-0.67	-2.14	-2.13	1	1	0	600	600	0
3/19/2025 10:19	21206	ECAR_T2	1	1	0	7.5	7.7	0.2	0.6	0.68	0	0	0	0	0	0
3/19/2025 10:19	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 10:21	52102	MEIS_T1	0	2	2	0	0.3	0.3	0	0	1	1	0	450	450	0
3/19/2025 10:21	52101	MEIS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 10:23	63501	HEID_TBK1-2	7	6	-1	0.61	0.63	0.02	0.48	0.6	2	2	0	1800	1800	0
3/19/2025 10:24	63501	HEID_TBK1-2	7	6	-1	0.61	0.63	0.02	0.24	0.3	1	1	0	900	900	0
3/19/2025 10:24	10103	ALLE_T3	1	1	0	8.4	2.3	-6.1	0	0	0	0	0	0	0	0
3/19/2025 10:24	47401	PENS_T1	4	11	7	0.63	0.83	0.2	0	0	0	0	0	0	0	0
3/19/2025 10:24	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 10:24	47402	PENS_T1	1	2	1	0.1	0.65	0.55	0	0	0	0	0	0	0	0
3/19/2025 10:24	47403	PENS_T1	2	5	3	1.1	0.62	-0.48	0	0	0	0	0	0	0	0
3/19/2025 10:24	43201	MVIL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 10:24	10101	ALLE_T3	3	3	0	1.97	5.6	3.63	0	0	0	0	0	0	0	0
3/19/2025 10:24	43202	MVIL_T2	19	58	39	0.19	0.32	0.13	-0.63	-0.65	0	0	0	0	0	0
3/19/2025 10:25	47403	PENS_T1	2	5	3	1.1	0.62	-0.48	0	0	0	0	0	0	0	0
3/19/2025 10:25	47401	PENS_T1	4	11	7	0.63	0.83	0.2	0.81	0.83	0	0	0	0	0	0
3/19/2025 10:25	47402	PENS_T1	1	2	1	0.1	0.65	0.55	0	0	0	0	0	0	0	0
3/19/2025 10:26	57201	ROSS_T1	24	399	375	0.19	0.4	0.21	-1.06	-1.08	0	0	0	0	0	0
3/19/2025 10:26	14802	TREI_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/19/2025 10:26	57205	ROSS_T1	4	530	526	0.68	0.22	-0.46	0	0	0	0	0	0	0	0
3/19/2025 10:26	52101	MEIS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 10:26	14801	TREI_T2	3	7	4	0.23	0.37	0.14	0.32	0.28	0	0	0	0	0	0
3/19/2025 10:26	48303	ORWI_T2	1	1	0	0.3	0.8	0.5	0.55	0.59	0	0	0	0	0	0
3/19/2025 10:26	52102	MEIS_T1	0	2	2	0	0.3	0.3	0	0	1	1	0	450	450	0
3/19/2025 10:26	57203	ROSS_T1	0	865	865	0	0.33	0.33	0	0	0	0	0	0	0	0
3/19/2025 10:26	48302	ORWI_T2	2	2	0	8.7	9.05	0.35	0	0	0	0	0	0	0	0
3/19/2025 10:27	67303	WYOM_T2	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
3/19/2025 10:27	57205	ROSS_T1	4	530	526	0.68	0.22	-0.46	0	0	0	0	0	0	0	0
3/19/2025 10:27	57201	ROSS_T1	24	399	375	0.19	0.4	0.21	-1.06	-1.08	0	0	0	0	0	0
3/19/2025 10:27	57203	ROSS_T1	0	865	865	0	0.33	0.33	0.34	0.34	0	0	0	0	0	0
3/19/2025 10:28	42701	AUGU_T1	1	1	0	1.4	1.6	0.2	0	0	2	2	0	1800	1800	0
3/19/2025 10:28	20402	ASHF_T2	5	8	3	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
3/19/2025 10:28	57203	ROSS_T1	0	865	865	0	0.33	0.33	0	0	0	0	0	0	0	0
3/19/2025 10:28	57201	ROSS_T1	24	399	375	0.19	0.4	0.21	0	0	0	0	0	0	0	0
3/19/2025 10:28	20403	ASHF_T2	39	51	12	0.31	0.52	0.21	0.03	-0.04	0	0	0	0	0	0
3/19/2025 10:28	20401	ASHF_T2	7	13	6	0.4	0.41	0.01	0	0	0	0	0	0	0	0
3/19/2025 10:28	57205	ROSS_T1	4	530	526	0.68	0.22	-0.46	0	0	0	0	0	0	0	0
3/19/2025 10:28	10801	CHHI_T1	0	1	1	0	0.3	0.3	-0.95	-0.8	1	1	0	900	900	0
3/19/2025 10:29	61801	EELI_T2	0	1	1	0	0.2	0.2	-0.4	-0.4	0	0	0	0	0	0
3/19/2025 10:29	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 10:29	67303	WYOM_T2	1	2	1	0.3	0.45	0.15	-0.61	-0.51	0	0	0	0	0	0
3/19/2025 10:29	20402	ASHF_T2	5	8	3	0.28	0.2	-0.08	0	0	0	0	0	0	0	0
3/19/2025 10:29	42701	AUGU_T1	1	1	0	1.4	1.6	0.2	0	0	2	2	0	1800	1800	0
3/19/2025 10:29	20401	ASHF_T2	7	13	6	0.4	0.41	0.01	0.6	0.65	0	0	0	0	0	0
3/19/2025 10:29	20403	ASHF_T2	39	51	12	0.31	0.52	0.21	0.03	-0.04	0	0	0	0	0	0
3/19/2025 10:30	57201	ROSS_T1	389	419	30	0.39	0.4	0.01	0	0	0	0	0	0	0	0
3/19/2025 10:30	57205	ROSS_T1	510	555	45	0.22	0.25	0.03	0.18	0.19	0	0	0	0	0	0
3/19/2025 10:30	20402	ASHF_T2	5	10	5	0.24	0.26	0.02	0	0	0	0	0	0	0	0
3/19/2025 10:30	20403	ASHF_T2	48	54	6	0.48	0.63	0.15	0.03	-0.04	0	0	0	0	0	0
3/19/2025 10:30	20401	ASHF_T2	9	13	4	0.44	0.44	0	0	0	0	0	0	0	0	0
3/19/2025 10:30	45501	DERR_T2	0	1	1	0	0.1	0.1	0.77	0.78	4	4	0	3600	3600	0
3/19/2025 10:30	57203	ROSS_T1	801	899	98	0.34	0.34	0	0.34	0.34	0	0	0	0	0	0
3/19/2025 10:32	53903	HALI_T2	4	8	4	0.78	0.59	-0.19	0	0	0	0	0	0	0	0
3/19/2025 10:32	53901	HALI_T2	2	2	0	0.6	0.55	-0.05	-1.1	-1.02	0	0	0	0	0	0
3/19/2025 10:32	53902	HALI_T2	2	3	1	3.15	2.4	-0.75	0	0	0	0	0	0	0	0
3/19/2025 10:32	45501	DERR_T2	0	1	1	0	0.1	0.1	0.38	0.39	2	2	0	1800	1800	0
3/19/2025 10:33	53901	HALI_T2	2	2	0	0.6	0.55	-0.05	-1.1	-1.02	0	0	0	0	0	0
3/19/2025 10:33	53902	HALI_T2	2	3	1	3.15	2.4	-0.75	0	0	0	0	0	0	0	0
3/19/2025 10:33	53903	HALI_T2	4	8	4	0.78	0.59	-0.19	0	0	0	0	0	0	0	0
3/19/2025 10:34	17802	GILB_T1	2	3	1	0.45	0.77	0.32	0.06	0.06	0	0	0	0	0	0
3/19/2025 10:34	52401	GRPA_T2	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
3/19/2025 10:34	52403	GRPA_T2	27	38	11	0.7	0.76	0.06	0	0	0	0	0	0	0	0
3/19/2025 10:34	45501	DERR_T2	0	1	1	0	0.1	0.1	0.38	0.39	2	2	0	1800	1800	0
3/19/2025 10:34	53903	HALI_T2	4	8	4	0.78	0.59	-0.19	0	0	0	0	0	0	0	0
3/19/2025 10:34	53902	HALI_T2	2	3	1	3.15	2.4	-0.75	0	0	0	0	0	0	0	0
3/19/2025 10:34	53901	HALI_T2	2	2	0	0.6	0.55	-0.05	-3.3	-3.06	0	0	0	0	0	0
3/19/2025 10:34	52402	GRPA_T2	56	22	-34	0.41	0.67	0.26	0	0	0	0	0	0	0	0
3/19/2025 10:35	53903	HALI_T2	4	8	4	0.78	0.59	-0.19	-0.16	-0.17	0	0	0	0	0	0
3/19/2025 10:35	53902	HALI_T2	2	3	1	3.15	2.4	-0.75	0	0	0	0	0	0	0	0
3/19/2025 10:35	53901	HALI_T2	2	2	0	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
3/19/2025 10:36	52401	GRPA_T2	1	1	0	0.3	1	0.7	0	0	0	0	0	0	0	0
3/19/2025 10:36	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 10:36	52402	GRPA_T2	56	22	-34	0.41	0.67	0.26	0	0	0	0	0	0	0	0
3/19/2025 10:36	52403	GRPA_T2	27	38	11	0.7	0.76	0.06	-1.02	-1.12	0	0	0	0	0	0
3/19/2025 10:37	52403	GRPA_T2	27	38	11	0.7	0.76	0.06	-0.56	-0.48	0	0	0	0	0	0
3/19/2025 10:37	52402	GRPA_T2	56	22	-34	0.41	0.67	0.26	0	0	0	0	0	0	0	0
3/19/2025 10:37	52401	GRPA_T2	1	1	0	0.3	1	0.7	-0.65	-0.68	0	0	0	0	0	0
3/19/2025 10:38	65503	MOJO_T2	0	0	0	0	0	0	-0.89	-0.79	1	1	0	900	900	0
3/19/2025 10:39	43202	MVIL_T2	45	58	13	0.24	0.31	0.07	-0.65	-0.61	0	0	0	0	0	0
3/19/2025 10:39	65503	MOJO_T2	0	0	0	0	0	0	-0.89	-0.79	1	1	0	900	900	0
3/19/2025 10:39	65702	RVIL_T2	2	5	3	0.2	0.26	0.06	-0.82	-0.82	0	0	0	0	0	0
3/19/2025 10:40	65503	MOJO_T2	0	0	0	0	0	0	-0.89	-0.79	1	1	0	900	900	0
3/19/2025 10:40	53902	HALI_T2	2	3	1	3.15	2.4	-0.75	0	0	0	0	0	0	0	0
3/19/2025 10:40	65702	RVIL_T2	2	5	3	0.2	0.26	0.06	-2.45	-2.46	0	0	0	0	0	0
3/19/2025 10:40	43202	MVIL_T2	45	58	13	0.24	0.31	0.07	-0.65	-0.61	0	0	0	0	0	0
3/19/2025 10:40	53901	HALI_T2	2	2	0	0.6	0.55	-0.05	-1.02	-1.04	0	0	0	0	0	0
3/19/2025 10:40	53903	HALI_T2	4	8	4	0.78	0.59	-0.19	0	0	0	0	0	0	0	0
3/19/2025 10:41	14802	TREI_T2	1	7	6	0.1	0.29	0.19	0.28	0.28	0	0	0	0	0	0
3/19/2025 10:41	13901	SEID_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 10:41	13902	SEID_T1	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
3/19/2025 10:41	14801	TREI_T2	4	9	5	0.4	0.33	-0.07	0	0	0	0	0	0	0	0
3/19/2025 10:42	65205	PRIN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/19/2025 10:42	40302	TAMA_T3	24	30	6	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
3/19/2025 10:42	40303	TAMA_T3	0	0	0	0	0	0	3.2	3.2	0	0	0	0	0	0
3/19/2025 10:42	40301	TAMA_T3	7	7	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/19/2025 10:43	65702	RVIL_T2	2	5	3	0.2	0.26	0.06	-0.82	-0.82	0	0	0	0	0	0
3/19/2025 10:44	67605	WARW_T1	40	43	3	0.64	0.54	-0.1	-1.05	-1.04	0	0	0	0	0	0
3/19/2025 10:44	42701	AUGU_T1	1	1	0	1.3	1.6	0.3	0	0	2	2	0	1800	1800	0
3/19/2025 10:44	40502	CRES_T2	6	4	-2	0.17	0.3	0.13	0.16	0.16	0	0	0	0	0	0
3/19/2025 10:44	67503	WEWI_T2	4	11	7	0.23	0.3	0.07	0	0	0	0	0	0	0	0
3/19/2025 10:44	40302	TAMA_T3	24	30	6	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
3/19/2025 10:44	67502	WEWI_T2	82	137	55	0.23	0.26	0.03	0	0	0	0	0	0	0	0
3/19/2025 10:44	67901	WHHO_T2	0	0	0	0	0	0	-0.51	-0.5	2	2	0	2100	2100	0
3/19/2025 10:44	40501	CRES_T2	15	16	1	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
3/19/2025 10:44	40301	TAMA_T3	7	7	0	0.8	0.9	0.1	1.02	1.09	2	2	0	1800	1800	0
3/19/2025 10:44	67603	WARW_T1	1	1	0	0.1	0.6	0.5	0	0	0	0	0	0	0	0
3/19/2025 10:45	40505	CRES_T1	1	3	2	0.6	0.67	0.07	0	0	0	0	0	0	0	0
3/19/2025 10:45	57403	SPAN_T1	27	70	43	0.43	0.36	-0.07	0	0	0	0	0	0	0	0
3/19/2025 10:45	65702	RVIL_T2	2	5	3	0.1	0.26	0.16	-1.63	-1.64	0	0	0	0	0	0
3/19/2025 10:45	40504	CRES_T1	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/19/2025 10:45	57401	SPAN_T1	6	12	6	0.67	0.59	-0.08	0.07	0.11	0	0	0	0	0	0
3/19/2025 10:46	40502	CRES_T2	2	6	4	0.35	0.23	-0.12	0.16	0.16	0	0	0	0	0	0
3/19/2025 10:46	67605	WARW_T1	35	50	15	0.51	0.6	0.09	-1.05	-1.04	0	0	0	0	0	0
3/19/2025 10:46	67604	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 10:46	67603	WARW_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/19/2025 10:46	55105	WERT_T1	1	2	1	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/19/2025 10:46	55101	WERT_T1	0	0	0	0	0	0	-0.95	-1.06	2	2	0	1500	1500	0
3/19/2025 10:46	40501	CRES_T2	13	15	2	0.35	0.35	0	0	0	0	0	0	0	0	0
3/19/2025 10:47	57401	SPAN_T1	6	12	6	0.67	0.59	-0.08	0	0	0	0	0	0	0	0
3/19/2025 10:47	57403	SPAN_T1	27	70	43	0.43	0.36	-0.07	-0.01	-0.01	0	0	0	0	0	0
3/19/2025 10:48	67605	WARW_T1	35	50	15	0.51	0.6	0.09	-1.05	-1.04	0	0	0	0	0	0
3/19/2025 10:48	40501	CRES_T2	13	15	2	0.35	0.35	0	0	0	0	0	0	0	0	0
3/19/2025 10:48	57401	SPAN_T1	6	12	6	0.67	0.59	-0.08	0	0	0	0	0	0	0	0
3/19/2025 10:48	40502	CRES_T2	2	6	4	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
3/19/2025 10:48	67603	WARW_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/19/2025 10:48	67604	WARW_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 10:48	44302	BEAV_T2	3	2	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/19/2025 10:48	11202	ELHE_T2	0	0	0	0	0	0	0.36	0.36	1	1	0	1200	1200	0
3/19/2025 10:48	57403	SPAN_T1	27	70	43	0.43	0.36	-0.07	-0.01	-0.01	0	0	0	0	0	0
3/19/2025 10:48	44301	BEAV_T2	3	1	-2	0.3	0.3	0	0	0	0	0	0	0	0	0
3/19/2025 10:49	64204	KINZ_T1	69	65	-4	1.04	0.69	-0.35	0	0	0	0	0	0	0	0
3/19/2025 10:49	65004	NEFF_T2	2	3	1	0.45	0.47	0.02	0	0	0	0	0	0	0	0
3/19/2025 10:49	24101	EHAZ_T1	22	26	4	0.55	0.76	0.21	0	0	0	0	0	0	0	0
3/19/2025 10:49	45802	HEGI_T2	39	54	15	0.41	0.36	-0.05	0.99	1.15	0	0	0	0	0	0
3/19/2025 10:49	52402	GRPA_T2	19	20	1	0.71	0.73	0.02	0	0	0	0	0	0	0	0
3/19/2025 10:49	40501	CRES_T2	13	15	2	0.35	0.35	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 10:49	52401	GRPA_T2	1	1	0	0.8	1.1	0.3	-0.65	-0.68	0	0	0	0	0	0
3/19/2025 10:49	57403	SPAN_T1	27	70	43	0.43	0.36	-0.07	-0.02	-0.02	0	0	0	0	0	0
3/19/2025 10:49	52403	GRPA_T2	23	41	18	0.86	0.79	-0.07	0	0	0	0	0	0	0	0
3/19/2025 10:49	40502	CRES_T2	2	6	4	0.35	0.23	-0.12	0	0	0	0	0	0	0	0
3/19/2025 10:49	65005	NEFF_T2	2	2	0	0.9	0.95	0.05	0	0	0	0	0	0	0	0
3/19/2025 10:49	65003	NEFF_T2	1	2	1	0.1	0.3	0.2	-0.22	-0.06	1	1	0	600	600	0
3/19/2025 10:49	24104	EHAZ_T1	0	0	0	0	0	0	-2.2	-2.2	1	1	0	1200	1200	0
3/19/2025 10:49	57401	SPAN_T1	6	12	6	0.67	0.59	-0.08	0	0	0	0	0	0	0	0
3/19/2025 10:49	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 10:49	24105	EHAZ_T1	4	4	0	6.4	6.08	-0.32	0	0	0	0	0	0	0	0
3/19/2025 10:49	64203	KINZ_T1	0	10	10	0	0	0	1.13	1.25	1	1	0	600	600	0
3/19/2025 10:49	24102	EHAZ_T1	2	3	1	0.25	0	-0.25	0	0	0	0	0	0	0	0
3/19/2025 10:49	57402	SPAN_T2	79	146	67	0.15	0.21	0.06	-0.56	-0.58	0	0	0	0	0	0
3/19/2025 10:49	57404	SPAN_T2	8	8	0	0.2	0.34	0.14	0	0	0	0	0	0	0	0
3/19/2025 10:50	57401	SPAN_T1	6	12	6	0.67	0.59	-0.08	0.07	0.11	0	0	0	0	0	0
3/19/2025 10:50	52002	LING_T2	1	1	0	1.1	1	-0.1	-0.32	-0.24	0	0	0	0	0	0
3/19/2025 10:50	57404	SPAN_T2	8	8	0	0.2	0.34	0.14	0	0	0	0	0	0	0	0
3/19/2025 10:50	52004	LING_T2	6	9	3	2.57	2.02	-0.55	0	0	0	0	0	0	0	0
3/19/2025 10:50	57403	SPAN_T1	27	70	43	0.43	0.36	-0.07	0	0	0	0	0	0	0	0
3/19/2025 10:50	52006	LING_T2	3	3	0	0.47	0.65	0.18	0	0	0	0	0	0	0	0
3/19/2025 10:50	57402	SPAN_T2	79	146	67	0.15	0.21	0.06	-0.56	-0.58	0	0	0	0	0	0
3/19/2025 10:51	12701	MACU_T1	7	7	0	0.46	0.53	0.07	-1.21	-1.21	1	1	0	1200	1200	0
3/19/2025 10:54	45802	HEGI_T2	39	54	15	0.41	0.36	-0.05	1.15	1.02	0	0	0	0	0	0
3/19/2025 10:54	61502	EPET_T1	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
3/19/2025 10:54	61503	EPET_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/19/2025 10:54	57201	ROSS_T1	353	443	90	0.37	0.44	0.07	0	0	0	0	0	0	0	0
3/19/2025 10:54	57203	ROSS_T1	834	1002	168	0.28	0.38	0.1	0.37	0.35	0	0	0	0	0	0
3/19/2025 10:54	57205	ROSS_T1	432	577	145	0.21	0.29	0.08	0	0	0	0	0	0	0	0
3/19/2025 10:54	61505	EPET_T1	0	2	2	0	0.15	0.15	0.1	0.1	0	0	0	0	0	0
3/19/2025 10:55	48302	ORWI_T2	2	2	0	9.05	9.1	0.05	-0.09	-0.09	0	0	0	0	0	0
3/19/2025 10:55	57203	ROSS_T1	834	1002	168	0.28	0.38	0.1	0	0	0	0	0	0	0	0
3/19/2025 10:55	24206	PROV_T4	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 10:55	64901	MILL_T1	37	51	14	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/19/2025 10:55	24202	PROV_T4	67	14	-53	0.2	0.14	-0.06	-0.62	-0.67	1	1	0	1200	1200	0
3/19/2025 10:55	50701	SMEC_T1	18	30	12	0.42	0.41	-0.01	0.54	0.68	0	0	0	0	0	0
3/19/2025 10:55	64904	MILL_T1	2	4	2	0.1	0.25	0.15	0.44	0.4	0	0	0	0	0	0
3/19/2025 10:55	57201	ROSS_T1	353	443	90	0.37	0.44	0.07	0	0	0	0	0	0	0	0
3/19/2025 10:55	12701	MACU_T1	7	7	0	0.46	0.53	0.07	-1.21	-1.21	1	1	0	1200	1200	0
3/19/2025 10:55	57205	ROSS_T1	432	577	145	0.21	0.29	0.08	0	0	0	0	0	0	0	0
3/19/2025 10:55	48303	ORWI_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
3/19/2025 10:55	24203	PROV_T4	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
3/19/2025 10:56	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 10:56	21702	SUBU_T1	26	0	-26	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 10:56	50701	SMEC_T1	18	30	12	0.42	0.41	-0.01	0.54	0.68	0	0	0	0	0	0
3/19/2025 10:56	21701	SUBU_T1	1	1	0	5.9	6	0.1	0	0	0	0	0	0	0	0
3/19/2025 10:56	58401	MORO_T1	4	9	5	0.25	0.34	0.09	-1.15	-1.1	1	1	0	600	600	0
3/19/2025 10:56	21705	SUBU_T1	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
3/19/2025 10:57	14801	TREI_T2	7	11	4	0.37	0.29	-0.08	0.24	0.28	0	0	0	0	0	0
3/19/2025 10:57	58401	MORO_T1	4	9	5	0.25	0.34	0.09	-1.15	-1.1	1	1	0	600	600	0
3/19/2025 10:57	50701	SMEC_T1	18	30	12	0.42	0.41	-0.01	0	0	0	0	0	0	0	0
3/19/2025 10:57	14802	TREI_T2	3	13	10	0.13	0.25	0.12	0	0	0	0	0	0	0	0
3/19/2025 10:59	57203	ROSS_T1	834	1002	168	0.28	0.38	0.1	0.37	0.35	0	0	0	0	0	0
3/19/2025 10:59	50701	SMEC_T1	18	30	12	0.42	0.41	-0.01	0.27	0.34	0	0	0	0	0	0
3/19/2025 10:59	57205	ROSS_T1	432	577	145	0.21	0.29	0.08	0	0	0	0	0	0	0	0
3/19/2025 10:59	41602	CLEV_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/19/2025 10:59	60201	ATGL_T2	1	2	1	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
3/19/2025 10:59	11203	ELHE_T1	0	0	0	0	0	0	0.9	1.25	0	0	0	0	0	0
3/19/2025 10:59	57201	ROSS_T1	353	443	90	0.37	0.44	0.07	0	0	0	0	0	0	0	0
3/19/2025 10:59	41601	CLEV_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/19/2025 11:00	57201	ROSS_T1	409	452	43	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/19/2025 11:00	44801	EDAN_T2	0	10	10	0	0.58	0.58	-1.46	-1.48	0	0	0	0	0	0
3/19/2025 11:00	10901	COOP_T2	2	2	0	0.5	0.95	0.45	0	0	0	0	0	0	0	0
3/19/2025 11:00	57205	ROSS_T1	544	613	69	0.26	0.3	0.04	0	0	0	0	0	0	0	0
3/19/2025 11:00	57203	ROSS_T1	884	1074	190	0.34	0.38	0.04	0.37	0.35	0	0	0	0	0	0
3/19/2025 11:00	10903	COOP_T2	11	54	43	0.36	0.25	-0.11	0	0	0	0	0	0	0	0
3/19/2025 11:01	41902	REED_T1	0	4	4	0	0.48	0.48	1.09	1.17	0	0	0	0	0	0
3/19/2025 11:01	10901	COOP_T2	2	2	0	0.5	0.95	0.45	0	0	0	0	0	0	0	0
3/19/2025 11:01	60201	ATGL_T2	1	2	1	0.3	0.3	0	0.12	0.14	0	0	0	0	0	0
3/19/2025 11:01	10903	COOP_T2	11	54	43	0.36	0.25	-0.11	0	0	1	1	0	600	600	0
3/19/2025 11:02	62607	ENGL_T1	4	6	2	0.3	0.28	-0.02	-0.8	-0.78	0	0	0	0	0	0
3/19/2025 11:02	62605	ENGL_T1	5	13	8	0.34	0.25	-0.09	0	0	0	0	0	0	0	0
3/19/2025 11:02	62602	ENGL_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
3/19/2025 11:03	62602	ENGL_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
3/19/2025 11:03	62605	ENGL_T1	5	13	8	0.34	0.25	-0.09	0	0	0	0	0	0	0	0
3/19/2025 11:03	62607	ENGL_T1	4	6	2	0.3	0.28	-0.02	-0.8	-0.78	0	0	0	0	0	0
3/19/2025 11:03	62606	ENGL_T1	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
3/19/2025 11:04	17401	FOHI_T1	0	0	0	0	0	0	-1.06	-1.03	0	0	0	0	0	0
3/19/2025 11:05	62605	ENGL_T1	5	13	8	0.34	0.25	-0.09	0	0	0	0	0	0	0	0
3/19/2025 11:05	53903	HALI_T2	8	12	4	0.56	0.62	0.06	0	0	0	0	0	0	0	0
3/19/2025 11:05	53902	HALI_T2	3	4	1	2.4	2.13	-0.27	-0.23	-0.23	0	0	0	0	0	0
3/19/2025 11:05	62601	ENGL_T1	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
3/19/2025 11:05	62607	ENGL_T1	4	6	2	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/19/2025 11:05	53901	HALI_T2	1	4	3	0.7	0.4	-0.3	0	0	0	0	0	0	0	0
3/19/2025 11:05	62606	ENGL_T1	0	0	0	0	0	0	-0.67	-0.66	0	0	0	0	0	0
3/19/2025 11:05	62602	ENGL_T1	2	2	0	0.25	0.3	0.05	0	0	0	0	0	0	0	0
3/19/2025 11:06	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 11:06	20603	GRWO_T2	8	49	41	0.24	0.25	0.01	0.41	0.43	0	0	0	0	0	0
3/19/2025 11:06	46803	HEPB_T2	0	0	0	0	0	0	0.41	0.43	0	0	0	0	0	0
3/19/2025 11:06	46801	HEPB_T2	2	2	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
3/19/2025 11:07	15702	TANN_T2	1	4	3	0.3	0.35	0.05	-0.48	-0.49	0	0	0	0	0	0
3/19/2025 11:07	15703	TANN_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
3/19/2025 11:09	65201	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 11:09	64902	MILL_T2	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
3/19/2025 11:09	64903	MILL_T2	1	1	0	0.5	0.2	-0.3	0	0	0	0	0	0	0	0
3/19/2025 11:09	65207	PRIN_T4	2	2	0	2.45	0.7	-1.75	0	0	0	0	0	0	0	0
3/19/2025 11:09	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 11:10	15702	TANN_T2	1	4	3	0.3	0.35	0.05	-0.96	-0.98	0	0	0	0	0	0
3/19/2025 11:10	15703	TANN_T2	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
3/19/2025 11:11	21204	ECAR_T2	1	1	0	0	0	0	-0.6	-0.63	0	0	0	0	0	0
3/19/2025 11:11	21206	ECAR_T2	1	2	1	7.6	7.7	0.1	0	0	0	0	0	0	0	0
3/19/2025 11:13	43802	SWIL_T1	0	0	0	0	0	0	-0.27	-0.29	1	1	0	600	600	0
3/19/2025 11:13	43801	SWIL_T1	1	1	0	5	4.8	-0.2	0	0	0	0	0	0	0	0
3/19/2025 11:14	44801	EDAN_T2	0	10	10	0	0.58	0.58	0	0	0	0	0	0	0	0
3/19/2025 11:14	44802	EDAN_T2	0	0	0	0	0	0	-0.88	-0.81	0	0	0	0	0	0
3/19/2025 11:14	41602	CLEV_T1	0	3	3	0	0.63	0.63	0	0	0	0	0	0	0	0
3/19/2025 11:14	59402	RFLD_T2	4	4	0	0.23	0.43	0.2	-0.29	-0.34	1	1	0	450	450	0
3/19/2025 11:14	41601	CLEV_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/19/2025 11:15	59402	RFLD_T2	3	5	2	0.27	0.38	0.11	-0.29	-0.34	1	1	0	450	450	0
3/19/2025 11:15	44801	EDAN_T2	6	10	4	0.43	0.6	0.17	0	0	0	0	0	0	0	0
3/19/2025 11:15	44802	EDAN_T2	0	0	0	0	0	0	-0.88	-0.81	0	0	0	0	0	0
3/19/2025 11:15	41602	CLEV_T1	1	4	3	0.3	0.55	0.25	0	0	0	0	0	0	0	0
3/19/2025 11:15	41601	CLEV_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/19/2025 11:16	44802	EDAN_T2	0	0	0	0	0	0	-1.76	-1.63	0	0	0	0	0	0
3/19/2025 11:16	57403	SPAN_T1	68	120	52	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
3/19/2025 11:16	65902	SAKR_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/19/2025 11:16	57404	SPAN_T2	8	9	1	0.29	0.38	0.09	0.62	0.63	1	1	0	1200	1200	0
3/19/2025 11:16	59402	RFLD_T2	3	5	2	0.27	0.38	0.11	-0.29	-0.34	1	1	0	450	450	0
3/19/2025 11:16	57401	SPAN_T1	12	17	5	0.54	0.66	0.12	0.09	0.17	0	0	0	0	0	0
3/19/2025 11:16	65904	SAKR_T2	6	12	6	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
3/19/2025 11:16	44801	EDAN_T2	6	10	4	0.43	0.6	0.17	0	0	0	0	0	0	0	0
3/19/2025 11:16	57402	SPAN_T2	128	176	48	0.21	0.28	0.07	-0.56	-0.56	0	0	0	0	0	0
3/19/2025 11:16	65901	SAKR_T2	2	2	0	5.1	5.35	0.25	-1.21	-1.24	1	1	0	900	900	0
3/19/2025 11:17	57402	SPAN_T2	128	176	48	0.21	0.28	0.07	-0.56	-0.56	0	0	0	0	0	0
3/19/2025 11:17	57404	SPAN_T2	8	9	1	0.29	0.38	0.09	0	0	0	0	0	0	0	0
3/19/2025 11:17	54505	ENOL_T2	3	4	1	0.83	0.8	-0.03	0	0	0	0	0	0	0	0
3/19/2025 11:17	54502	ENOL_T2	39	25	-14	0.16	0.2	0.04	-2.19	-2.17	1	1	0	600	600	0
3/19/2025 11:17	44802	EDAN_T2	0	0	0	0	0	0	-1.76	-1.63	0	0	0	0	0	0
3/19/2025 11:17	41602	CLEV_T1	1	4	3	0.3	0.55	0.25	0	0	0	0	0	0	0	0
3/19/2025 11:17	57403	SPAN_T1	68	120	52	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
3/19/2025 11:17	41601	CLEV_T1	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/19/2025 11:17	54504	ENOL_T2	2	1	-1	0.15	1.3	1.15	0	0	0	0	0	0	0	0
3/19/2025 11:17	57401	SPAN_T1	12	17	5	0.54	0.66	0.12	0.18	0.34	0	0	0	0	0	0
3/19/2025 11:17	44801	EDAN_T2	6	10	4	0.43	0.6	0.17	0	0	0	0	0	0	0	0
3/19/2025 11:17	54501	ENOL_T2	4	6	2	0.28	0.32	0.04	0.13	0.13	0	0	0	0	0	0
3/19/2025 11:18	54505	ENOL_T2	3	4	1	0.83	0.8	-0.03	-1.4	-1.39	1	1	0	600	600	0
3/19/2025 11:18	54503	ENOL_T2	0	0	0	0	0	0	-0.49	-0.48	1	1	0	600	600	0
3/19/2025 11:18	54501	ENOL_T2	4	6	2	0.28	0.32	0.04	0	0	0	0	0	0	0	0
3/19/2025 11:18	54504	ENOL_T2	2	1	-1	0.15	1.3	1.15	0	0	0	0	0	0	0	0
3/19/2025 11:18	54502	ENOL_T2	39	25	-14	0.16	0.2	0.04	0	0	0	0	0	0	0	0
3/19/2025 11:18	57401	SPAN_T1	12	17	5	0.54	0.66	0.12	0.09	0.17	0	0	0	0	0	0
3/19/2025 11:18	57403	SPAN_T1	68	120	52	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
3/19/2025 11:19	44801	EDAN_T2	6	10	4	0.43	0.6	0.17	0	0	0	0	0	0	0	0
3/19/2025 11:19	44802	EDAN_T2	0	0	0	0	0	0	-0.88	-0.81	0	0	0	0	0	0
3/19/2025 11:20	57401	SPAN_T1	12	17	5	0.54	0.66	0.12	0.09	0.17	0	0	0	0	0	0
3/19/2025 11:20	57403	SPAN_T1	68	120	52	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
3/19/2025 11:21	62607	ENGL_T1	6	7	1	0.27	0.27	0	0	0	0	0	0	0	0	0
3/19/2025 11:21	57404	SPAN_T2	8	9	1	0.29	0.38	0.09	0	0	0	0	0	0	0	0
3/19/2025 11:21	53901	HALI_T2	1	4	3	0.8	0.43	-0.37	0	0	0	0	0	0	0	0
3/19/2025 11:21	57402	SPAN_T2	128	176	48	0.21	0.28	0.07	0	0	0	0	0	0	0	0
3/19/2025 11:21	42401	GIMA_T1	3	19	16	0.5	0.21	-0.29	0	0	0	0	0	0	0	0
3/19/2025 11:21	65902	SAKR_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/19/2025 11:21	53903	HALI_T2	8	12	4	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/19/2025 11:21	65904	SAKR_T2	6	12	6	0.33	0.32	-0.01	0	0	0	0	0	0	0	0
3/19/2025 11:21	65901	SAKR_T2	2	2	0	5.1	5.35	0.25	-1.24	-1.26	1	1	0	900	900	0
3/19/2025 11:21	53902	HALI_T2	4	4	0	1.9	2.13	0.23	0	0	0	0	0	0	0	0
3/19/2025 11:21	62602	ENGL_T1	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/19/2025 11:21	62605	ENGL_T1	11	13	2	0.25	0.28	0.03	-0.89	-0.89	0	0	0	0	0	0
3/19/2025 11:22	46901	MNTG_T2	0	0	0	0	0	0	-0.28	-0.44	1	1	0	1200	1200	0
3/19/2025 11:22	46903	MNTG_T2	2	1	-1	0.5	0.8	0.3	-0.61	-0.66	1	1	0	600	600	0
3/19/2025 11:25	65904	SAKR_T2	6	12	6	0.33	0.32	-0.01	-1.81	-1.79	2	2	0	900	900	0
3/19/2025 11:25	65901	SAKR_T2	2	2	0	5.1	5.35	0.25	0	0	0	0	0	0	0	0
3/19/2025 11:25	65902	SAKR_T2	1	1	0	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/19/2025 11:27	66503	SMAN_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 11:27	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 11:27	43801	SWIL_T1	1	11	10	5	0.56	-4.44	0	0	0	0	0	0	0	0
3/19/2025 11:27	66501	SMAN_T2	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/19/2025 11:27	42601	TUSC_T1	0	1	1	0	0.1	0.1	0.18	0.16	3	2	-1	2400	1800	-600
3/19/2025 11:27	66504	SMAN_T2	2	5	3	0.7	0.85	0.15	0	0	0	0	0	0	0	0
3/19/2025 11:27	66502	SMAN_T2	4	10	6	0.2	0.31	0.11	0.24	0.29	0	0	0	0	0	0
3/19/2025 11:29	43801	SWIL_T1	1	11	10	5	0.56	-4.44	0	0	0	0	0	0	0	0
3/19/2025 11:29	43802	SWIL_T1	0	0	0	0	0	0	-0.29	-0.28	1	1	0	600	600	0
3/19/2025 11:30	66502	SMAN_T2	6	15	9	0.27	0.31	0.04	0	0	0	0	0	0	0	0
3/19/2025 11:30	66501	SMAN_T2	2	1	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/19/2025 11:30	66503	SMAN_T2	1	2	1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
3/19/2025 11:30	66504	SMAN_T2	4	6	2	0.53	0.78	0.25	-1.02	-1.06	0	0	0	0	0	0
3/19/2025 11:31	67201	TEHI_T1	1	2	1	4.3	0.2	-4.1	-0.51	-0.64	3	3	0	2400	2400	0
3/19/2025 11:31	43402	BENT_T1	10	11	1	0.54	0.51	-0.03	-0.74	-0.73	1	1	0	900	900	0
3/19/2025 11:31	23901	EFMO_T2	0	0	0	0	0	0	0.05	0.04	0	0	0	0	0	0
3/19/2025 11:31	44801	EDAN_T2	10	10	0	0.58	0.69	0.11	-0.47	-0.45	0	0	0	0	0	0
3/19/2025 11:32	66501	SMAN_T2	2	1	-1	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/19/2025 11:32	43402	BENT_T1	10	11	1	0.54	0.51	-0.03	-0.74	-0.73	1	1	0	900	900	0
3/19/2025 11:32	61803	EELI_T2	0	1	1	0	0.2	0.2	0.97	0.98	0	0	0	0	0	0
3/19/2025 11:32	66504	SMAN_T2	4	6	2	0.53	0.78	0.25	0	0	0	0	0	0	0	0
3/19/2025 11:32	66502	SMAN_T2	6	15	9	0.27	0.31	0.04	0	0	0	0	0	0	0	0
3/19/2025 11:32	66503	SMAN_T2	1	2	1	0.2	0.8	0.6	0	0	0	0	0	0	0	0
3/19/2025 11:32	61801	EELI_T2	10	21	11	0.36	0.35	-0.01	0	0	0	0	0	0	0	0
3/19/2025 11:33	40501	CRES_T2	18	17	-1	0.39	0.39	0	0	0	0	0	0	0	0	0
3/19/2025 11:33	40502	CRES_T2	7	8	1	0.27	0.33	0.06	0.16	0.16	0	0	0	0	0	0
3/19/2025 11:33	40504	CRES_T1	3	14	11	0.47	0.22	-0.25	-0.51	-0.52	0	0	0	0	0	0
3/19/2025 11:33	40505	CRES_T1	5	7	2	0.4	0.57	0.17	0	0	0	0	0	0	0	0
3/19/2025 11:37	58201	NEWV_T1	1	0	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/19/2025 11:37	58202	NEWV_T1	1	3	2	0.1	0.27	0.17	0	0	0	0	0	0	0	0
3/19/2025 11:38	58402	MORO_T1	0	0	0	0	0	0	-0.32	-0.34	4	4	0	3000	3000	0
3/19/2025 11:38	58401	MORO_T1	8	5	-3	0.29	0.18	-0.11	-1.1	-1.13	1	1	0	600	600	0
3/19/2025 11:39	47402	PENS_T1	2	3	1	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
3/19/2025 11:39	47401	PENS_T1	30	29	-1	0.44	0.52	0.08	0	0	0	0	0	0	0	0
3/19/2025 11:39	58401	MORO_T1	8	5	-3	0.29	0.18	-0.11	-1.1	-1.13	1	1	0	600	600	0
3/19/2025 11:39	47403	PENS_T1	4	8	4	0.45	0.74	0.29	0	0	0	0	0	0	0	0
3/19/2025 11:40	46602	LACR_T1	2	4	2	0.55	0.73	0.18	-0.72	-0.76	0	0	0	0	0	0
3/19/2025 11:40	47403	PENS_T1	4	8	4	0.45	0.74	0.29	0	0	0	0	0	0	0	0
3/19/2025 11:40	47401	PENS_T1	30	29	-1	0.44	0.52	0.08	1.07	1.07	0	0	0	0	0	0
3/19/2025 11:40	47402	PENS_T1	2	3	1	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
3/19/2025 11:40	58401	MORO_T1	8	5	-3	0.29	0.18	-0.11	-1.1	-1.13	1	1	0	600	600	0
3/19/2025 11:41	47402	PENS_T1	2	3	1	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
3/19/2025 11:41	47401	PENS_T1	30	29	-1	0.44	0.52	0.08	1.07	1.07	0	0	0	0	0	0
3/19/2025 11:41	47403	PENS_T1	4	8	4	0.45	0.74	0.29	0	0	0	0	0	0	0	0
3/19/2025 11:41	58401	MORO_T1	8	5	-3	0.29	0.18	-0.11	-2.2	-2.26	2	2	0	1200	1200	0
3/19/2025 11:42	47401	PENS_T1	30	29	-1	0.44	0.52	0.08	2.14	2.14	0	0	0	0	0	0
3/19/2025 11:42	47403	PENS_T1	4	8	4	0.45	0.74	0.29	0	0	0	0	0	0	0	0
3/19/2025 11:42	47402	PENS_T1	2	3	1	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
3/19/2025 11:42	44701	MUNC_T2	0	0	0	0	0	0	-1.2	-1.11	0	0	0	0	0	0
3/19/2025 11:43	47401	PENS_T1	30	29	-1	0.44	0.52	0.08	1.07	1.07	0	0	0	0	0	0
3/19/2025 11:43	47403	PENS_T1	4	8	4	0.45	0.74	0.29	0	0	0	0	0	0	0	0
3/19/2025 11:43	47402	PENS_T1	2	3	1	0.8	0.57	-0.23	0	0	0	0	0	0	0	0
3/19/2025 11:44	16102	BING_T2	7	8	1	0.74	0.78	0.04	0	0	0	0	0	0	0	0
3/19/2025 11:44	16101	BING_T2	1	2	1	0.7	0.65	-0.05	0	0	0	0	0	0	0	0
3/19/2025 11:44	16103	BING_T2	1	2	1	1	0.65	-0.35	-0.52	-0.49	1	1	0	900	900	0
3/19/2025 11:46	45501	DERR_T2	2	4	2	0.7	0.3	-0.4	0.3	0.36	2	2	0	1800	1800	0
3/19/2025 11:46	24104	EHAZ_T1	1	4	3	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/19/2025 11:46	24103	EHAZ_T1	0	0	0	0	0	0	-1.41	-1.38	0	0	0	0	0	0
3/19/2025 11:46	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 11:46	16101	BING_T2	1	3	2	0.6	0.57	-0.03	0.23	0.25	0	0	0	0	0	0
3/19/2025 11:46	24102	EHAZ_T1	1	9	8	0.9	0.4	-0.5	0	0	0	0	0	0	0	0
3/19/2025 11:46	16103	BING_T2	2	2	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/19/2025 11:46	14603	SWHI_T1	5	8	3	0.44	0.5	0.06	0	0	0	0	0	0	0	0
3/19/2025 11:46	16102	BING_T2	7	8	1	0.87	0.75	-0.12	0.17	0.18	0	0	0	0	0	0
3/19/2025 11:46	24105	EHAZ_T1	4	4	0	6.7	6.08	-0.62	0	0	0	0	0	0	0	0
3/19/2025 11:46	24101	EHAZ_T1	24	14	-10	1.31	0.73	-0.58	0	0	0	0	0	0	0	0
3/19/2025 11:47	14603	SWHI_T1	5	8	3	0.44	0.5	0.06	-1.02	-1.07	1	1	0	600	600	0
3/19/2025 11:48	14603	SWHI_T1	5	8	3	0.44	0.5	0.06	-1.02	-1.07	1	1	0	600	600	0
3/19/2025 11:48	52204	DEVO_T2	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
3/19/2025 11:48	47203	FAXO_T2	0	0	0	0	0	0	-0.4	-0.39	0	0	0	0	0	0
3/19/2025 11:48	52202	DEVO_T2	1	9	8	0.1	0.22	0.12	0	0	0	0	0	0	0	0
3/19/2025 11:49	17801	GILB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 11:49	17802	GILB_T1	4	8	4	0.5	0.66	0.16	0	0	0	0	0	0	0	0
3/19/2025 11:49	52204	DEVO_T2	1	1	0	1.8	2	0.2	0	0	0	0	0	0	0	0
3/19/2025 11:49	52202	DEVO_T2	1	9	8	0.1	0.22	0.12	-0.77	-0.77	0	0	0	0	0	0
3/19/2025 11:50	14603	SWHI_T1	5	8	3	0.44	0.5	0.06	-1.02	-1.07	1	1	0	600	600	0
3/19/2025 11:51	14603	SWHI_T1	5	8	3	0.44	0.5	0.06	0	0	0	0	0	0	0	0
3/19/2025 11:52	14603	SWHI_T1	5	8	3	0.44	0.5	0.06	0	0	0	0	0	0	0	0
3/19/2025 11:52	47104	MARL_T1	0	0	0	0	0	0	-0.92	-0.96	0	0	0	0	0	0
3/19/2025 11:52	14604	SWHI_T1	0	0	0	0	0	0	-0.06	-0.06	1	1	0	900	900	0
3/19/2025 11:52	47101	MARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 11:55	63501	HEID_TBK1-2	9	45	36	0.57	0.34	-0.23	0	0	0	0	0	0	0	0
3/19/2025 11:55	43802	SWIL_T1	0	2	2	0	0.3	0.3	-0.27	-0.28	1	1	0	600	600	0
3/19/2025 11:55	43801	SWIL_T1	11	7	-4	0.56	0.8	0.24	0	0	0	0	0	0	0	0
3/19/2025 11:57	58401	MORO_T1	3	4	1	0.2	0.28	0.08	0	0	0	0	0	0	0	0
3/19/2025 11:57	58402	MORO_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 12:02	54502	ENOL_T2	39	50	11	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
3/19/2025 12:02	64204	KINZ_T1	68	69	1	1.3	1.38	0.08	0	0	0	0	0	0	0	0
3/19/2025 12:02	64203	KINZ_T1	1	0	-1	0.3	0	-0.3	0.92	1.42	2	1	-1	900	600	-300
3/19/2025 12:02	54503	ENOL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 12:02	54501	ENOL_T2	8	4	-4	0.25	0.28	0.03	0	0	0	0	0	0	0	0
3/19/2025 12:02	64202	KINZ_T1	2	2	0	0.4	0.15	-0.25	0	0	0	0	0	0	0	0
3/19/2025 12:02	54505	ENOL_T2	4	2	-2	0.9	1	0.1	0	0	0	0	0	0	0	0
3/19/2025 12:02	54504	ENOL_T2	2	1	-1	0.8	0.4	-0.4	-0.54	-0.55	0	0	0	0	0	0
3/19/2025 12:03	53902	HALI_T2	3	4	1	2.7	1.9	-0.8	0	0	0	0	0	0	0	0
3/19/2025 12:03	54503	ENOL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 12:03	53903	HALI_T2	18	9	-9	0.68	0.62	-0.06	-0.13	-0.1	0	0	0	0	0	0
3/19/2025 12:03	54501	ENOL_T2	8	4	-4	0.25	0.28	0.03	0	0	0	0	0	0	0	0
3/19/2025 12:03	54502	ENOL_T2	39	50	11	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
3/19/2025 12:03	54504	ENOL_T2	2	1	-1	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
3/19/2025 12:03	53901	HALI_T2	4	3	-1	0.48	0.5	0.02	0	0	0	0	0	0	0	0
3/19/2025 12:03	54505	ENOL_T2	4	2	-2	0.9	1	0.1	-2.86	-2.86	2	2	0	1200	1200	0
3/19/2025 12:04	53903	HALI_T2	18	9	-9	0.68	0.62	-0.06	0	0	0	0	0	0	0	0
3/19/2025 12:04	54501	ENOL_T2	8	4	-4	0.25	0.28	0.03	0	0	0	0	0	0	0	0
3/19/2025 12:04	53902	HALI_T2	3	4	1	2.7	1.9	-0.8	0	0	0	0	0	0	0	0
3/19/2025 12:04	54506	ENOL_T2	0	0	0	0	0	0	0.12	0.09	0	0	0	0	0	0
3/19/2025 12:04	53901	HALI_T2	4	3	-1	0.48	0.5	0.02	0	0	0	0	0	0	0	0
3/19/2025 12:04	54505	ENOL_T2	4	2	-2	0.9	1	0.1	0	0	0	0	0	0	0	0
3/19/2025 12:04	54503	ENOL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 12:04	54502	ENOL_T2	39	50	11	0.18	0.15	-0.03	0	0	0	0	0	0	0	0
3/19/2025 12:04	54504	ENOL_T2	2	1	-1	0.8	0.4	-0.4	0	0	0	0	0	0	0	0
3/19/2025 12:06	53903	HALI_T2	18	9	-9	0.68	0.62	-0.06	-0.13	-0.1	0	0	0	0	0	0
3/19/2025 12:06	53902	HALI_T2	3	4	1	2.7	1.9	-0.8	0	0	0	0	0	0	0	0
3/19/2025 12:06	53901	HALI_T2	4	3	-1	0.48	0.5	0.02	0	0	0	0	0	0	0	0
3/19/2025 12:09	47401	PENS_T1	18	8	-10	0.62	0.69	0.07	0.98	0.96	0	0	0	0	0	0
3/19/2025 12:09	47403	PENS_T1	8	6	-2	0.74	0.28	-0.46	0	0	0	0	0	0	0	0
3/19/2025 12:09	47402	PENS_T1	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
3/19/2025 12:09	55002	NEWP_T1	37	35	-2	0.37	0.42	0.05	0	0	0	0	0	0	0	0
3/19/2025 12:09	55001	NEWP_T1	39	10	-29	0.29	0.41	0.12	-0.39	-0.36	0	0	0	0	0	0
3/19/2025 12:10	64903	MILL_T2	1	1	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/19/2025 12:10	55001	NEWP_T1	39	10	-29	0.29	0.41	0.12	0	0	0	0	0	0	0	0
3/19/2025 12:10	55002	NEWP_T1	37	35	-2	0.37	0.42	0.05	-0.27	-0.26	0	0	0	0	0	0
3/19/2025 12:10	64902	MILL_T2	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
3/19/2025 12:11	47402	PENS_T1	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
3/19/2025 12:11	47401	PENS_T1	18	8	-10	0.62	0.69	0.07	0.98	0.96	0	0	0	0	0	0
3/19/2025 12:11	47403	PENS_T1	8	6	-2	0.74	0.28	-0.46	0	0	0	0	0	0	0	0
3/19/2025 12:12	44901	SCOT_T2	243	65	-178	0.41	0.22	-0.19	0.42	0.35	0	0	0	0	0	0
3/19/2025 12:12	55002	NEWP_T1	37	35	-2	0.37	0.42	0.05	0	0	0	0	0	0	0	0
3/19/2025 12:12	44902	SCOT_T2	764	713	-51	0.68	0.43	-0.25	0	0	0	0	0	0	0	0
3/19/2025 12:12	55001	NEWP_T1	39	10	-29	0.29	0.41	0.12	-0.39	-0.36	0	0	0	0	0	0
3/19/2025 12:13	24801	VALM_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 12:13	55002	NEWP_T1	37	35	-2	0.37	0.42	0.05	-0.27	-0.26	0	0	0	0	0	0
3/19/2025 12:13	55001	NEWP_T1	39	10	-29	0.29	0.41	0.12	0	0	0	0	0	0	0	0
3/19/2025 12:13	44902	SCOT_T2	764	713	-51	0.68	0.43	-0.25	-0.97	-0.95	0	0	0	0	0	0
3/19/2025 12:13	44901	SCOT_T2	243	65	-178	0.41	0.22	-0.19	0	0	0	0	0	0	0	0
3/19/2025 12:14	67201	TEHI_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/19/2025 12:14	44901	SCOT_T2	243	65	-178	0.41	0.22	-0.19	0.42	0.35	0	0	0	0	0	0
3/19/2025 12:14	67203	TEHI_T1	0	0	0	0	0	0	2.38	2.38	3	3	0	2100	2100	0
3/19/2025 12:14	44902	SCOT_T2	764	713	-51	0.68	0.43	-0.25	-0.97	-0.95	0	0	0	0	0	0
3/19/2025 12:14	55001	NEWP_T1	39	10	-29	0.29	0.41	0.12	-0.39	-0.36	0	0	0	0	0	0
3/19/2025 12:14	55002	NEWP_T1	37	35	-2	0.37	0.42	0.05	0	0	0	0	0	0	0	0
3/19/2025 12:15	41602	CLEV_T1	4	4	0	0.63	0.88	0.25	0	0	0	0	0	0	0	0
3/19/2025 12:15	46201	DANV_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
3/19/2025 12:15	55002	NEWP_T1	10	35	25	0.57	0.45	-0.12	0	0	0	0	0	0	0	0
3/19/2025 12:15	44902	SCOT_T2	499	757	258	0.28	0.5	0.22	-0.97	-0.95	0	0	0	0	0	0
3/19/2025 12:15	44901	SCOT_T2	14	136	122	0.31	0.27	-0.04	0	0	0	0	0	0	0	0
3/19/2025 12:15	41601	CLEV_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
3/19/2025 12:15	46203	DANV_T2	143	172	29	0.49	0.95	0.46	0.1	0.09	0	0	0	0	0	0
3/19/2025 12:15	55001	NEWP_T1	2	11	9	0.5	0.41	-0.09	-0.39	-0.36	0	0	0	0	0	0
3/19/2025 12:15	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 12:16	55001	NEWP_T1	2	11	9	0.5	0.41	-0.09	-0.39	-0.36	0	0	0	0	0	0
3/19/2025 12:16	55002	NEWP_T1	10	35	25	0.57	0.45	-0.12	0	0	0	0	0	0	0	0
3/19/2025 12:17	52204	DEVO_T2	1	1	0	2	1.3	-0.7	0	0	0	0	0	0	0	0
3/19/2025 12:17	41601	CLEV_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
3/19/2025 12:17	52202	DEVO_T2	9	4	-5	0.22	0.13	-0.09	-2.27	-2.26	0	0	0	0	0	0
3/19/2025 12:17	41602	CLEV_T1	4	4	0	0.63	0.88	0.25	0	0	0	0	0	0	0	0
3/19/2025 12:17	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 12:17	46203	DANV_T2	143	172	29	0.49	0.95	0.46	0.1	0.09	0	0	0	0	0	0
3/19/2025 12:17	46201	DANV_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
3/19/2025 12:18	46203	DANV_T2	143	172	29	0.49	0.95	0.46	0.1	0.09	0	0	0	0	0	0
3/19/2025 12:18	52202	DEVO_T2	9	4	-5	0.22	0.13	-0.09	-0.76	-0.75	0	0	0	0	0	0
3/19/2025 12:18	52204	DEVO_T2	1	1	0	2	1.3	-0.7	0	0	0	0	0	0	0	0
3/19/2025 12:18	41602	CLEV_T1	4	4	0	0.63	0.88	0.25	0	0	0	0	0	0	0	0
3/19/2025 12:18	16302	ALPA_T2	6	7	1	0.42	0.39	-0.03	0.55	0.53	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 12:18	46201	DANV_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
3/19/2025 12:18	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 12:18	41601	CLEV_T1	1	1	0	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
3/19/2025 12:19	46203	DANV_T2	143	172	29	0.49	0.95	0.46	0.1	0.09	0	0	0	0	0	0
3/19/2025 12:19	46201	DANV_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
3/19/2025 12:19	52202	DEVO_T2	9	4	-5	0.22	0.13	-0.09	-0.76	-0.75	0	0	0	0	0	0
3/19/2025 12:19	16302	ALPA_T2	6	7	1	0.42	0.39	-0.03	0.55	0.53	0	0	0	0	0	0
3/19/2025 12:19	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 12:19	52204	DEVO_T2	1	1	0	2	1.3	-0.7	0	0	0	0	0	0	0	0
3/19/2025 12:20	41902	REED_T1	3	4	1	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
3/19/2025 12:20	16302	ALPA_T2	6	7	1	0.42	0.39	-0.03	0.55	0.53	0	0	0	0	0	0
3/19/2025 12:22	10401	LIGA_T1	2	4	2	0.4	0.25	-0.15	0	0	0	0	0	0	0	0
3/19/2025 12:23	23203	HIRU_T2	1	2	1	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/19/2025 12:23	23201	HIRU_T2	8	10	2	0.29	0.36	0.07	0	0	0	0	0	0	0	0
3/19/2025 12:23	23202	HIRU_T2	1	6	5	0.1	0.17	0.07	0.1	0.09	0	0	0	0	0	0
3/19/2025 12:24	66902	SHIL_T2	4	5	1	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
3/19/2025 12:24	66903	SHIL_T2	3	3	0	0.23	0.43	0.2	0	0	0	0	0	0	0	0
3/19/2025 12:24	66901	SHIL_T2	4	4	0	0.35	0.48	0.13	-0.51	-0.51	0	0	0	0	0	0
3/19/2025 12:26	66902	SHIL_T2	4	5	1	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
3/19/2025 12:26	14801	TREI_T2	6	7	1	0.43	0.6	0.17	0.23	0.23	0	0	0	0	0	0
3/19/2025 12:26	14802	TREI_T2	7	10	3	0.34	0.42	0.08	0	0	0	0	0	0	0	0
3/19/2025 12:26	66903	SHIL_T2	3	3	0	0.23	0.43	0.2	0	0	0	0	0	0	0	0
3/19/2025 12:26	66901	SHIL_T2	4	4	0	0.35	0.48	0.13	0	0	0	0	0	0	0	0
3/19/2025 12:27	63801	HEMP_T1	5	14	9	0.32	0.36	0.04	0	0	0	0	0	0	0	0
3/19/2025 12:27	63804	HEMP_T1	1	2	1	6.3	2.95	-3.35	0	0	0	0	0	0	0	0
3/19/2025 12:27	66902	SHIL_T2	4	5	1	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
3/19/2025 12:27	63802	HEMP_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/19/2025 12:27	66903	SHIL_T2	3	3	0	0.23	0.43	0.2	-1.16	-1.19	0	0	0	0	0	0
3/19/2025 12:27	66901	SHIL_T2	4	4	0	0.35	0.48	0.13	0	0	0	0	0	0	0	0
3/19/2025 12:27	63803	HEMP_T1	2	10	8	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
3/19/2025 12:28	63803	HEMP_T1	2	10	8	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
3/19/2025 12:28	14802	TREI_T2	7	10	3	0.34	0.42	0.08	0.66	0.7	0	0	0	0	0	0
3/19/2025 12:28	66901	SHIL_T2	4	4	0	0.35	0.48	0.13	0	0	0	0	0	0	0	0
3/19/2025 12:28	67402	WAKE_T2	3	3	0	0.27	0.27	0	2.14	2.12	0	0	0	0	0	0
3/19/2025 12:28	67401	WAKE_T2	10	11	1	0.65	0.57	-0.08	0	0	0	0	0	0	0	0
3/19/2025 12:28	14801	TREI_T2	6	7	1	0.43	0.6	0.17	0	0	0	0	0	0	0	0
3/19/2025 12:28	66903	SHIL_T2	3	3	0	0.23	0.43	0.2	0	0	0	0	0	0	0	0
3/19/2025 12:28	63804	HEMP_T1	1	2	1	6.3	2.95	-3.35	0.86	0.92	0	0	0	0	0	0
3/19/2025 12:28	63801	HEMP_T1	5	14	9	0.32	0.36	0.04	0.08	0.18	0	0	0	0	0	0
3/19/2025 12:28	66902	SHIL_T2	4	5	1	0.38	0.36	-0.02	-2.97	-3.06	0	0	0	0	0	0
3/19/2025 12:28	63802	HEMP_T1	0	2	2	0	0.3	0.3	0.18	0.16	0	0	0	0	0	0
3/19/2025 12:29	63803	HEMP_T1	2	10	8	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
3/19/2025 12:29	66902	SHIL_T2	4	5	1	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
3/19/2025 12:29	66903	SHIL_T2	3	3	0	0.23	0.43	0.2	-2.32	-2.38	0	0	0	0	0	0
3/19/2025 12:29	14802	TREI_T2	7	10	3	0.34	0.42	0.08	0.33	0.35	0	0	0	0	0	0
3/19/2025 12:29	66901	SHIL_T2	4	4	0	0.35	0.48	0.13	0	0	0	0	0	0	0	0
3/19/2025 12:29	63801	HEMP_T1	5	14	9	0.32	0.36	0.04	0	0	0	0	0	0	0	0
3/19/2025 12:29	14801	TREI_T2	6	7	1	0.43	0.6	0.17	0	0	0	0	0	0	0	0
3/19/2025 12:29	63804	HEMP_T1	1	2	1	6.3	2.95	-3.35	0	0	0	0	0	0	0	0
3/19/2025 12:29	63802	HEMP_T1	0	2	2	0	0.3	0.3	0.18	0.16	0	0	0	0	0	0
3/19/2025 12:29	67402	WAKE_T2	3	3	0	0.27	0.27	0	1.07	1.06	0	0	0	0	0	0
3/19/2025 12:29	67401	WAKE_T2	10	11	1	0.65	0.57	-0.08	-1.15	-1.15	0	0	0	0	0	0
3/19/2025 12:30	66901	SHIL_T2	4	4	0	0.48	0.43	-0.05	0	0	0	0	0	0	0	0
3/19/2025 12:30	63801	HEMP_T1	13	7	-6	0.34	0.33	-0.01	0	0	0	0	0	0	0	0
3/19/2025 12:30	14802	TREI_T2	9	10	1	0.4	0.43	0.03	0.33	0.35	0	0	0	0	0	0
3/19/2025 12:30	66902	SHIL_T2	5	5	0	0.28	0.38	0.1	0	0	0	0	0	0	0	0
3/19/2025 12:30	27502	WEIS_T2	2	2	0	0.9	0.9	0	0	0	0	0	0	0	0	0
3/19/2025 12:30	63802	HEMP_T1	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
3/19/2025 12:30	66903	SHIL_T2	2	4	2	0.45	0.4	-0.05	-1.16	-1.19	0	0	0	0	0	0
3/19/2025 12:30	27503	WEIS_T2	5	6	1	0.46	0.5	0.04	0	0	0	0	0	0	0	0
3/19/2025 12:30	14801	TREI_T2	7	8	1	0.53	0.61	0.08	0	0	0	0	0	0	0	0
3/19/2025 12:30	63804	HEMP_T1	2	1	-1	2.95	6	3.05	0.86	0.92	0	0	0	0	0	0
3/19/2025 12:30	63803	HEMP_T1	9	9	0	0.28	0.31	0.03	0	0	0	0	0	0	0	0
3/19/2025 12:31	63803	HEMP_T1	9	9	0	0.28	0.31	0.03	0	0	0	0	0	0	0	0
3/19/2025 12:31	10903	COOP_T2	28	76	48	0.29	0.28	-0.01	0.02	0.02	1	1	0	600	600	0
3/19/2025 12:31	10901	COOP_T2	4	6	2	0.53	0.57	0.04	0	0	0	0	0	0	0	0
3/19/2025 12:31	27503	WEIS_T2	5	6	1	0.46	0.5	0.04	0	0	0	0	0	0	0	0
3/19/2025 12:31	63802	HEMP_T1	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
3/19/2025 12:31	63801	HEMP_T1	13	7	-6	0.34	0.33	-0.01	0.08	0.18	0	0	0	0	0	0
3/19/2025 12:31	27502	WEIS_T2	2	2	0	0.9	0.9	0	-1.8	-1.65	0	0	0	0	0	0
3/19/2025 12:31	63804	HEMP_T1	2	1	-1	2.95	6	3.05	0	0	0	0	0	0	0	0
3/19/2025 12:32	14601	SWHI_T1	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/19/2025 12:32	11301	EMMA_T1	1	2	1	0.8	0.45	-0.35	-0.92	-0.93	0	0	0	0	0	0
3/19/2025 12:32	52204	DEVO_T2	1	1	0	0.5	2	1.5	0	0	0	0	0	0	0	0
3/19/2025 12:32	11303	EMMA_T1	9	8	-1	0.69	0.65	-0.04	0	0	0	0	0	0	0	0
3/19/2025 12:32	44502	HAMI_T2	2	1	-1	1.6	3.1	1.5	0	0	0	0	0	0	0	0
3/19/2025 12:32	52202	DEVO_T2	0	7	7	0	0.2	0.2	-0.75	-0.76	0	0	0	0	0	0
3/19/2025 12:32	44505	HAMI_T2	0	0	0	0	0	0	0.67	0.63	0	0	0	0	0	0
3/19/2025 12:32	12002	HATF_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/19/2025 12:32	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 12:32	64101	REFR_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/19/2025 12:32	12006	HATF_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/19/2025 12:32	12001	HATF_T1	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
3/19/2025 12:32	17401	FOHI_T1	0	1	1	0	0.1	0.1	-2.06	-2.02	0	0	0	0	0	0
3/19/2025 12:32	11302	EMMA_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
3/19/2025 12:32	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 12:32	14605	SWHI_T1	0	0	0	0	0	0	1.18	1.12	1	1	0	1200	1200	0
3/19/2025 12:32	14603	SWHI_T1	6	8	2	0.62	0.58	-0.04	0	0	0	0	0	0	0	0
3/19/2025 12:33	47201	FAXO_T2	0	0	0	0	0	0	-2.33	-2.36	1	1	0	1200	1200	0
3/19/2025 12:33	12006	HATF_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/19/2025 12:33	12001	HATF_T1	2	2	0	0.45	0.55	0.1	1	1.05	1	1	0	600	600	0
3/19/2025 12:33	14601	SWHI_T1	1	2	1	0.3	0.2	-0.1	-0.29	-0.29	0	0	0	0	0	0
3/19/2025 12:33	12002	HATF_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/19/2025 12:33	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 12:33	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 12:33	63602	LETO_T1	62	10	-52	0.16	0.25	0.09	-0.55	-0.4	0	0	0	0	0	0
3/19/2025 12:33	17401	FOHI_T1	0	1	1	0	0.1	0.1	-1.03	-1.01	0	0	0	0	0	0
3/19/2025 12:33	67401	WAKE_T2	9	11	2	0.63	0.55	-0.08	0	0	0	0	0	0	0	0
3/19/2025 12:33	44502	HAMI_T2	2	1	-1	1.6	3.1	1.5	0	0	0	0	0	0	0	0
3/19/2025 12:33	67402	WAKE_T2	1	3	2	0.4	0.27	-0.13	1.07	1.06	0	0	0	0	0	0
3/19/2025 12:33	14603	SWHI_T1	6	8	2	0.62	0.58	-0.04	0	0	0	0	0	0	0	0
3/19/2025 12:33	63601	LETO_T1	3	3	0	0.43	0.47	0.04	0	0	0	0	0	0	0	0
3/19/2025 12:34	63601	LETO_T1	3	3	0	0.43	0.47	0.04	1.4	1.37	1	1	0	900	900	0
3/19/2025 12:34	12006	HATF_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/19/2025 12:34	64101	REFR_T1	1	2	1	0.2	0.2	0	167.92	167.92	0	0	0	0	0	0
3/19/2025 12:34	12002	HATF_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/19/2025 12:34	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 12:34	40801	EXCH_T2	3	2	-1	0.4	0.35	-0.05	-0.5	-0.54	1	1	0	1200	1200	0
3/19/2025 12:34	14603	SWHI_T1	6	8	2	0.62	0.58	-0.04	-1.02	-1.03	1	1	0	600	600	0
3/19/2025 12:34	23901	EFMO_T2	0	0	0	0	0	0	0.14	0.1	0	0	0	0	0	0
3/19/2025 12:34	44505	HAMI_T2	0	0	0	0	0	0	0.67	0.63	0	0	0	0	0	0
3/19/2025 12:34	64402	LAND_T2	2	2	0	1.4	0.45	-0.95	-0.23	-0.26	1	1	0	600	600	0
3/19/2025 12:34	64404	LAND_T2	5	0	-5	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/19/2025 12:34	17401	FOHI_T1	0	1	1	0	0.1	0.1	-1.03	-1.01	0	0	0	0	0	0
3/19/2025 12:34	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 12:34	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 12:34	12001	HATF_T1	2	2	0	0.45	0.55	0.1	1	1.05	1	1	0	600	600	0
3/19/2025 12:34	24702	FLND_T2	2	3	1	0.6	0.37	-0.23	0.07	0.15	1	1	0	1200	1200	0
3/19/2025 12:34	40802	EXCH_T2	2	2	0	0.9	0.6	-0.3	0.17	0.16	0	0	0	0	0	0
3/19/2025 12:34	14601	SWHI_T1	1	2	1	0.3	0.2	-0.1	-0.58	-0.58	0	0	0	0	0	0
3/19/2025 12:34	44502	HAMI_T2	2	1	-1	1.6	3.1	1.5	0.04	0.04	0	0	0	0	0	0
3/19/2025 12:34	63602	LETO_T1	62	10	-52	0.16	0.25	0.09	-0.55	-0.4	0	0	0	0	0	0
3/19/2025 12:35	11303	EMMA_T1	9	8	-1	0.69	0.65	-0.04	0	0	0	0	0	0	0	0
3/19/2025 12:35	53101	WTWN_T1	6	2	-4	0.43	0.45	0.02	0	0	0	0	0	0	0	0
3/19/2025 12:35	44502	HAMI_T2	2	1	-1	1.6	3.1	1.5	0.04	0.04	0	0	0	0	0	0
3/19/2025 12:35	14604	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 12:35	22601	KIMB_T1	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
3/19/2025 12:35	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 12:35	11302	EMMA_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
3/19/2025 12:35	11301	EMMA_T1	1	2	1	0.8	0.45	-0.35	0	0	0	0	0	0	0	0
3/19/2025 12:35	53102	WTWN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 12:35	14601	SWHI_T1	1	2	1	0.3	0.2	-0.1	-0.87	-0.87	0	0	0	0	0	0
3/19/2025 12:35	64101	REFR_T1	1	2	1	0.2	0.2	0	167.92	167.92	0	0	0	0	0	0
3/19/2025 12:35	12006	HATF_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/19/2025 12:35	14605	SWHI_T1	0	0	0	0	0	0	1.18	1.12	1	1	0	1200	1200	0
3/19/2025 12:35	14603	SWHI_T1	6	8	2	0.62	0.58	-0.04	0	0	0	0	0	0	0	0
3/19/2025 12:35	12001	HATF_T1	2	2	0	0.45	0.55	0.1	1	1.05	1	1	0	600	600	0
3/19/2025 12:35	10901	COOP_T2	4	6	2	0.53	0.57	0.04	0	0	0	0	0	0	0	0
3/19/2025 12:35	12002	HATF_T1	1	1	0	0.4	0.3	-0.1	-0.77	-0.89	1	1	0	1200	1200	0
3/19/2025 12:35	10903	COOP_T2	28	76	48	0.29	0.28	-0.01	0	0	0	0	0	0	0	0
3/19/2025 12:35	17401	FOHI_T1	0	1	1	0	0.1	0.1	-1.03	-1.01	0	0	0	0	0	0
3/19/2025 12:36	14603	SWHI_T1	6	8	2	0.62	0.58	-0.04	0	0	0	0	0	0	0	0
3/19/2025 12:36	63602	LETO_T1	62	10	-52	0.16	0.25	0.09	-0.4	-0.36	0	0	0	0	0	0
3/19/2025 12:36	44502	HAMI_T2	2	1	-1	1.6	3.1	1.5	0	0	0	0	0	0	0	0
3/19/2025 12:36	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0.15	0.14	0	0	0	0	0	0
3/19/2025 12:36	64101	REFR_T1	1	2	1	0.2	0.2	0	251.88	251.88	0	0	0	0	0	0
3/19/2025 12:36	63601	LETO_T1	3	3	0	0.43	0.47	0.04	1.37	1.37	1	1	0	900	900	0
3/19/2025 12:36	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 12:36	14601	SWHI_T1	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/19/2025 12:37	41202	KENM_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/19/2025 12:37	41204	KENM_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/19/2025 12:37	44502	HAMI_T2	2	1	-1	1.6	3.1	1.5	0.04	0.04	0	0	0	0	0	0
3/19/2025 12:38	14601	SWHI_T1	1	2	1	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/19/2025 12:38	64101	REFR_T1	1	2	1	0.2	0.2	0	167.92	167.92	0	0	0	0	0	0
3/19/2025 12:38	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 12:38	14603	SWHI_T1	6	8	2	0.62	0.58	-0.04	0	0	0	0	0	0	0	0
3/19/2025 12:39	41202	KENM_T2	1	1	0	0.2	0.7	0.5	0.51	0.5	0	0	0	0	0	0
3/19/2025 12:39	41204	KENM_T2	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/19/2025 12:39	12002	HATF_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/19/2025 12:39	12001	HATF_T1	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
3/19/2025 12:39	12006	HATF_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/19/2025 12:39	12003	HATF_T1	0	0	0	0	0	0	1.12	1.11	1	1	0	1200	1200	0
3/19/2025 12:55	57205	ROSS_T1	146	287	141	0.2	0.2	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 12:55	57201	ROSS_T1	249	310	61	0.38	0.38	0	0	0	0	0	0	0	0	0
3/19/2025 12:55	57203	ROSS_T1	763	831	68	0.21	0.23	0.02	0.31	0.3	0	0	0	0	0	0
3/19/2025 13:00	11203	ELHE_T1	0	0	0	0	0	0	1.2	0.81	0	0	0	0	0	0
3/19/2025 13:12	14603	SWHI_T1	8	13	5	0.58	0.53	-0.05	0	0	0	0	0	0	0	0
3/19/2025 13:12	14605	SWHI_T1	0	0	0	0	0	0	1.11	1.14	1	1	0	1200	1200	0
3/19/2025 13:12	14601	SWHI_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/19/2025 13:13	52402	GRPA_T2	80	97	17	0.35	0.39	0.04	0	0	0	0	0	0	0	0
3/19/2025 13:13	52401	GRPA_T2	8	1	-7	0.25	0.3	0.05	0	0	0	0	0	0	0	0
3/19/2025 13:13	52403	GRPA_T2	66	21	-45	0.69	0.58	-0.11	-0.56	-0.53	0	0	0	0	0	0
3/19/2025 13:30	61103	BERK_T5	27	72	45	0.29	0.22	-0.07	0	0	0	0	0	0	0	0
3/19/2025 13:30	61102	BERK_T5	5	8	3	0.34	0.33	-0.01	0.16	0.17	1	1	0	300	300	0
3/19/2025 13:30	61101	BERK_T5	5	10	5	0.68	0.45	-0.23	0	0	0	0	0	0	0	0
3/19/2025 13:31	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:31	10503	CRAC_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/19/2025 13:31	16001	DORN_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:31	15001	BLMO_T1	6	6	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
3/19/2025 13:31	61101	BERK_T5	5	10	5	0.68	0.45	-0.23	0	0	0	0	0	0	0	0
3/19/2025 13:31	16004	DORN_T1	2	2	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
3/19/2025 13:31	61103	BERK_T5	27	72	45	0.29	0.22	-0.07	0.02	0.04	0	0	0	0	0	0
3/19/2025 13:31	16005	DORN_T1	2	1	-1	0.55	1	0.45	0	0	0	0	0	0	0	0
3/19/2025 13:31	10103	ALLE_T3	1	0	-1	3.4	0	-3.4	0	0	0	0	0	0	0	0
3/19/2025 13:31	10502	CRAC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:31	61102	BERK_T5	5	8	3	0.34	0.33	-0.01	0.16	0.17	1	1	0	300	300	0
3/19/2025 13:31	41601	CLEV_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
3/19/2025 13:31	41602	CLEV_T1	1	3	2	1.1	0.67	-0.43	0	0	0	0	0	0	0	0
3/19/2025 13:31	10101	ALLE_T3	2	2	0	3.75	3.5	-0.25	0	0	0	0	0	0	0	0
3/19/2025 13:31	51102	CARL_T1	6	5	-1	0.73	0.64	-0.09	0	0	0	0	0	0	0	0
3/19/2025 13:31	51109	CARL_T1	2	1	-1	0.2	0.3	0.1	-1.12	-1.11	1	1	0	1200	1200	0
3/19/2025 13:31	51101	CARL_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
3/19/2025 13:31	10205	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:32	61101	BERK_T5	5	10	5	0.68	0.45	-0.23	0	0	0	0	0	0	0	0
3/19/2025 13:32	51102	CARL_T1	6	5	-1	0.73	0.64	-0.09	0	0	0	0	0	0	0	0
3/19/2025 13:32	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:32	16002	DORN_T2	1	1	0	1	0.7	-0.3	0.57	0.56	0	0	0	0	0	0
3/19/2025 13:32	61103	BERK_T5	27	72	45	0.29	0.22	-0.07	0	0	0	0	0	0	0	0
3/19/2025 13:32	11103	EGYP_T1	6	3	-3	0.52	0.53	0.01	0	0	0	0	0	0	0	0
3/19/2025 13:32	61102	BERK_T5	5	8	3	0.34	0.33	-0.01	0.49	0.52	3	3	0	900	900	0
3/19/2025 13:32	16006	DORN_T2	0	0	0	0	0	0	1.41	1.45	0	0	0	0	0	0
3/19/2025 13:32	10503	CRAC_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/19/2025 13:32	15001	BLMO_T1	6	6	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
3/19/2025 13:32	60201	ATGL_T2	2	4	2	0.35	0.38	0.03	0.31	0.28	0	0	0	0	0	0
3/19/2025 13:32	51101	CARL_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
3/19/2025 13:32	10502	CRAC_T1	0	0	0	0	0	0	0.72	0.73	0	0	0	0	0	0
3/19/2025 13:32	11104	EGYP_T1	2	2	0	0.2	0.1	-0.1	0.66	0.63	0	0	0	0	0	0
3/19/2025 13:32	11101	EGYP_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/19/2025 13:32	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:32	51109	CARL_T1	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:33	51101	CARL_T1	1	1	0	6	6	0	-0.82	-0.86	0	0	0	0	0	0
3/19/2025 13:33	51109	CARL_T1	2	1	-1	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:33	61103	BERK_T5	27	72	45	0.29	0.22	-0.07	0.02	0.04	0	0	0	0	0	0
3/19/2025 13:33	51102	CARL_T1	6	5	-1	0.73	0.64	-0.09	0	0	0	0	0	0	0	0
3/19/2025 13:33	61501	EPET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:33	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:33	61101	BERK_T5	5	10	5	0.68	0.45	-0.23	0	0	0	0	0	0	0	0
3/19/2025 13:33	10503	CRAC_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/19/2025 13:33	15001	BLMO_T1	6	6	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
3/19/2025 13:33	61504	EPET_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/19/2025 13:33	16006	DORN_T2	0	0	0	0	0	0	0.71	0.73	0	0	0	0	0	0
3/19/2025 13:33	10502	CRAC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:33	60201	ATGL_T2	2	4	2	0.35	0.38	0.03	0.31	0.28	0	0	0	0	0	0
3/19/2025 13:33	61102	BERK_T5	5	8	3	0.34	0.33	-0.01	0.16	0.17	1	1	0	300	300	0
3/19/2025 13:33	61801	SELI_T2	11	0	0	0.46	0.39	-0.07	-0.69	-0.71	0	0	0	0	0	0
3/19/2025 13:33	16002	DORN_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
3/19/2025 13:34	61505	EPET_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/19/2025 13:34	61103	BERK_T5	27	72	45	0.29	0.22	-0.07	0	0	0	0	0	0	0	0
3/19/2025 13:34	15001	BLMO_T1	6	6	0	0.75	0.8	0.05	0	0	0	0	0	0	0	0
3/19/2025 13:34	61503	EPET_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:34	16006	DORN_T2	0	0	0	0	0	0	1.41	1.45	0	0	0	0	0	0
3/19/2025 13:34	61101	BERK_T5	5	10	5	0.68	0.45	-0.23	0	0	0	0	0	0	0	0
3/19/2025 13:34	61102	BERK_T5	5	8	3	0.34	0.33	-0.01	0.16	0.17	1	1	0	300	300	0
3/19/2025 13:34	16002	DORN_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
3/19/2025 13:34	61502	EPET_T1	3	4	1	0.33	0.38	0.05	0	0	0	0	0	0	0	0
3/19/2025 13:35	16002	DORN_T2	1	1	0	1	0.7	-0.3	0.57	0.56	0	0	0	0	0	0
3/19/2025 13:35	54504	ENOL_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
3/19/2025 13:35	54502	ENOL_T2	5	5	0	0.38	0.54	0.16	0	0	0	0	0	0	0	0
3/19/2025 13:35	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:35	54501	ENOL_T2	3	3	0	0.17	0.17	0	0.05	0.05	0	0	0	0	0	0
3/19/2025 13:35	51109	CARL_T1	2	1	-1	0.2	0.3	0.1	-1.12	-1.11	1	1	0	1200	1200	0
3/19/2025 13:35	41602	CLEV_T1	1	3	2	1.1	0.67	-0.43	0	0	0	0	0	0	0	0
3/19/2025 13:35	61102	BERK_T5	5	8	3	0.34	0.33	-0.01	0.16	0.17	1	1	0	300	300	0
3/19/2025 13:35	10502	CRAC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:35	61101	BERK_T5	5	10	5	0.68	0.45	-0.23	0	0	0	0	0	0	0	0
3/19/2025 13:35	51101	CARL_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
3/19/2025 13:35	41601	CLEV_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
3/19/2025 13:35	61103	BERK_T5	27	72	45	0.29	0.22	-0.07	0	0	0	0	0	0	0	0
3/19/2025 13:35	10503	CRAC_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/19/2025 13:35	51102	CARL_T1	6	5	-1	0.73	0.64	-0.09	0	0	0	0	0	0	0	0
3/19/2025 13:35	54505	ENOL_T2	2	3	1	0.9	0.9	0	0	0	0	0	0	0	0	0
3/19/2025 13:36	61102	BERK_T5	5	8	3	0.34	0.33	-0.01	0.35	0.39	2	2	0	600	600	0
3/19/2025 13:36	61103	BERK_T5	27	72	45	0.29	0.22	-0.07	0.11	0.1	0	0	0	0	0	0
3/19/2025 13:36	61503	EPET_T1	1	0	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:36	61501	EPET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:36	61505	EPET_T1	1	2	1	0.3	0.35	0.05	0.06	0.06	0	0	0	0	0	0
3/19/2025 13:36	51102	CARL_T1	6	5	-1	0.73	0.64	-0.09	0	0	0	0	0	0	0	0
3/19/2025 13:36	16002	DORN_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
3/19/2025 13:36	61101	BERK_T5	5	10	5	0.68	0.45	-0.23	0	0	0	0	0	0	0	0
3/19/2025 13:36	54505	ENOL_T2	2	3	1	0.9	0.9	0	0	0	0	0	0	0	0	0
3/19/2025 13:36	54502	ENOL_T2	5	5	0	0.38	0.54	0.16	0	0	0	0	0	0	0	0
3/19/2025 13:36	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:36	51101	CARL_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
3/19/2025 13:36	51109	CARL_T1	2	1	-1	0.2	0.3	0.1	-2.23	-2.22	2	2	0	2400	2400	0
3/19/2025 13:36	54504	ENOL_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
3/19/2025 13:36	61502	EPET_T1	3	4	1	0.33	0.38	0.05	0	0	0	0	0	0	0	0
3/19/2025 13:36	54501	ENOL_T2	3	3	0	0.17	0.17	0	0.05	0.05	0	0	0	0	0	0
3/19/2025 13:36	16006	DORN_T2	0	0	0	0	0	0	1.45	1.45	0	0	0	0	0	0
3/19/2025 13:36	61504	EPET_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/19/2025 13:36	12202	FOGE_T2	36	16	-20	0.43	0.71	0.28	-0.67	-0.67	1	1	0	600	600	0
3/19/2025 13:37	16006	DORN_T2	0	0	0	0	0	0	1.45	1.45	0	0	0	0	0	0
3/19/2025 13:37	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:37	41601	CLEV_T1	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
3/19/2025 13:37	51102	CARL_T1	6	5	-1	0.73	0.64	-0.09	0	0	0	0	0	0	0	0
3/19/2025 13:37	61505	EPET_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/19/2025 13:37	52003	LING_T1	10	4	-6	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
3/19/2025 13:37	52002	LING_T2	2	2	0	0.85	0.8	-0.05	-0.25	-0.31	0	0	0	0	0	0
3/19/2025 13:37	61503	EPET_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:37	52006	LING_T2	5	2	-3	0.52	0.75	0.23	0	0	0	0	0	0	0	0
3/19/2025 13:37	52004	LING_T2	9	8	-1	2.01	2.19	0.18	0	0	0	0	0	0	0	0
3/19/2025 13:37	41602	CLEV_T1	1	3	2	1.1	0.67	-0.43	0	0	0	0	0	0	0	0
3/19/2025 13:37	52001	LING_T1	12	1	-11	0.37	0.4	0.03	0.03	0.11	0	0	0	0	0	0
3/19/2025 13:37	16002	DORN_T2	1	1	0	1	0.7	-0.3	0	0	0	0	0	0	0	0
3/19/2025 13:37	51101	CARL_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
3/19/2025 13:37	61502	EPET_T1	3	4	1	0.33	0.38	0.05	-1.13	-1.14	0	0	0	0	0	0
3/19/2025 13:37	40101	HUNT_T2	0	0	0	0	0	0	-1.6	-1.64	0	0	0	0	0	0
3/19/2025 13:37	51109	CARL_T1	2	1	-1	0.2	0.3	0.1	-1.11	-1.11	1	1	0	1200	1200	0
3/19/2025 13:38	54501	ENOL_T2	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0	0
3/19/2025 13:38	54505	ENOL_T2	2	3	1	0.9	0.9	0	0	0	0	0	0	0	0	0
3/19/2025 13:38	46504	LOHA_T1	40	60	20	0.39	0.84	0.45	0	0	0	0	0	0	0	0
3/19/2025 13:38	52004	LING_T2	9	8	-1	2.01	2.19	0.18	0.69	0.65	0	0	0	0	0	0
3/19/2025 13:38	52003	LING_T1	10	4	-6	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
3/19/2025 13:38	52006	LING_T2	5	2	-3	0.52	0.75	0.23	0	0	0	0	0	0	0	0
3/19/2025 13:38	47002	HUGH_T2	1	2	1	0.1	0.35	0.25	0	0	0	0	0	0	0	0
3/19/2025 13:38	54504	ENOL_T2	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
3/19/2025 13:38	47001	HUGH_T2	7	6	-1	3.8	4.72	0.92	-0.4	-0.38	0	0	0	0	0	0
3/19/2025 13:38	54502	ENOL_T2	5	5	0	0.38	0.54	0.16	-4.26	-4.26	2	2	0	1200	1200	0
3/19/2025 13:38	28805	LAKE_T1	1	1	0	0.1	0.2	0.1	-0.27	-0.26	0	0	0	0	0	0
3/19/2025 13:38	46503	LOHA_T1	1	0	-1	0.3	0	-0.3	-0.62	-0.62	0	0	0	0	0	0
3/19/2025 13:38	46506	LOHA_T1	5	9	4	3	2.04	-0.96	0	0	0	0	0	0	0	0
3/19/2025 13:38	52001	LING_T1	12	1	-11	0.37	0.4	0.03	0.03	0.11	0	0	0	0	0	0
3/19/2025 13:38	52002	LING_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
3/19/2025 13:39	46504	LOHA_T1	40	60	20	0.39	0.84	0.45	0	0	0	0	0	0	0	0
3/19/2025 13:39	52001	LING_T1	12	1	-11	0.37	0.4	0.03	0.03	0.11	0	0	0	0	0	0
3/19/2025 13:39	64202	KINZ_T1	3	3	0	0.2	0.6	0.4	0.69	0.67	0	0	0	0	0	0
3/19/2025 13:39	46506	LOHA_T1	5	9	4	3	2.04	-0.96	0	0	0	0	0	0	0	0
3/19/2025 13:39	52003	LING_T1	10	4	-6	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
3/19/2025 13:39	46503	LOHA_T1	1	0	-1	0.3	0	-0.3	-0.62	-0.62	0	0	0	0	0	0
3/19/2025 13:39	64204	KINZ_T1	68	69	1	0.93	1.33	0.4	0	0	0	0	0	0	0	0
3/19/2025 13:41	14402	SSLA_T1	15	14	-1	0.4	0.46	0.06	0	0	0	0	0	0	0	0
3/19/2025 13:41	14401	SSLA_T1	4	7	3	0.78	0.51	-0.27	0	0	0	0	0	0	0	0
3/19/2025 13:41	43202	MVIL_T2	88	74	-14	0.48	0.34	-0.14	0	0	0	0	0	0	0	0
3/19/2025 13:41	57303	MOAL_T2	1	1	0	7.3	7.4	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:41	14403	SSLA_T1	5	9	4	0.76	0.71	-0.05	0	0	0	0	0	0	0	0
3/19/2025 13:41	52003	LING_T1	10	4	-6	0.58	0.5	-0.08	0	0	0	0	0	0	0	0
3/19/2025 13:41	13902	SEID_T1	2	2	0	1	1.25	0.25	0	0	0	0	0	0	0	0
3/19/2025 13:41	57301	MOAL_T2	6	0	-6	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/19/2025 13:41	52001	LING_T1	12	1	-11	0.37	0.4	0.03	0.03	0.11	0	0	0	0	0	0
3/19/2025 13:41	13905	SEID_T1	3	2	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
3/19/2025 13:41	57602	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:41	43201	MVIL_T2	0	1	1	0	0.4	0.4	-0.24	-0.25	0	0	0	0	0	0
3/19/2025 13:41	42802	SELI_T1	0	0	0	0	0	0	-1.17	-1.16	1	1	0	900	900	0
3/19/2025 13:41	57601	RUTH_T2	0	0	0	0	0	0	-0.2	-0.17	1	1	0	900	900	0
3/19/2025 13:41	57603	RUTH_T2	8	9	1	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
3/19/2025 13:41	42903	MIDD_T2	2	2	0	1.05	1.6	0.55	0	0	0	0	0	0	0	0
3/19/2025 13:41	57306	MOAL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 13:41	42902	MIDD_T2	1	11	10	0.1	0.57	0.47	-0.21	-0.24	0	0	0	0	0	0
3/19/2025 13:41	14404	SSLA_T1	9	9	0	0.63	0.63	0	0	0	0	0	0	0	0	0
3/19/2025 13:41	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:41	57304	MOAL_T2	2	0	-2	0.25	0	-0.25	-0.66	-0.64	0	0	0	0	0	0
3/19/2025 13:41	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:41	42201	SHEN_T2	2	4	2	0.5	0.58	0.08	-0.23	-0.21	1	1	0	600	600	0
3/19/2025 13:42	14403	SSLA_T1	5	9	4	0.76	0.71	-0.05	0	0	0	0	0	0	0	0
3/19/2025 13:42	60803	BUCK_T1	18	19	1	0.22	0.21	-0.01	0	0	0	0	0	0	0	0
3/19/2025 13:42	57603	RUTH_T2	8	9	1	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
3/19/2025 13:42	57601	RUTH_T2	0	0	0	0	0	0	-0.4	-0.34	2	2	0	1800	1800	0
3/19/2025 13:42	14402	SSLA_T1	15	14	-1	0.4	0.46	0.06	0	0	0	0	0	0	0	0
3/19/2025 13:42	42802	SELI_T1	0	0	0	0	0	0	-1.17	-1.16	1	1	0	900	900	0
3/19/2025 13:42	52006	LING_T2	5	2	-3	0.52	0.75	0.23	0	0	0	0	0	0	0	0
3/19/2025 13:42	52004	LING_T2	9	8	-1	2.01	2.19	0.18	0	0	0	0	0	0	0	0
3/19/2025 13:42	55002	NEWP_T1	7	8	1	0.71	0.66	-0.05	-0.28	-0.31	0	0	0	0	0	0
3/19/2025 13:42	14401	SSLA_T1	4	7	3	0.78	0.51	-0.27	-0.6	-0.6	0	0	0	0	0	0
3/19/2025 13:42	57303	MOAL_T2	1	1	0	7.3	7.4	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:42	57306	MOAL_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 13:42	52002	LING_T2	2	2	0	0.85	0.8	-0.05	0	0	0	0	0	0	0	0
3/19/2025 13:42	14502	SCHO_T1	2	2	0	1.45	1.3	-0.15	0.2	0.19	0	0	0	0	0	0
3/19/2025 13:42	58402	MORO_T1	0	0	0	0	0	0	0.68	0.72	2	2	0	1800	1800	0
3/19/2025 13:42	58401	MORO_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:42	57304	MOAL_T2	2	0	-2	0.25	0	-0.25	-0.66	-0.64	0	0	0	0	0	0
3/19/2025 13:42	14404	SSLA_T1	9	9	0	0.63	0.63	0	-0.12	-0.22	0	0	0	0	0	0
3/19/2025 13:42	66701	STRA_T1	2	2	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/19/2025 13:42	60801	BUCK_T1	12	9	-3	0.48	0.51	0.03	0.04	0.01	0	0	0	0	0	0
3/19/2025 13:42	57301	MOAL_T2	6	0	-6	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/19/2025 13:42	43201	MVIL_T2	0	1	1	0	0.4	0.4	-0.24	-0.25	0	0	0	0	0	0
3/19/2025 13:42	66703	STRA_T1	22	60	38	0.41	0.25	-0.16	-0.05	-0.1	0	0	0	0	0	0
3/19/2025 13:42	67001	STHI_T2	539	950	411	0.33	0.35	0.02	0.07	0.06	0	0	0	0	0	0
3/19/2025 13:42	43202	MVIL_T2	88	74	-14	0.48	0.34	-0.14	0	0	0	0	0	0	0	0
3/19/2025 13:42	67002	STHI_T2	386	537	151	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/19/2025 13:43	42802	SELI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:43	57602	RUTH_T2	0	0	0	0	0	0	0.42	0.96	0	0	0	0	0	0
3/19/2025 13:43	13902	SEID_T1	2	2	0	1	1.25	0.25	0	0	0	0	0	0	0	0
3/19/2025 13:43	67602	WARW_T2	0	0	0	0	0	0	1.51	1.38	0	1	1	0	300	300
3/19/2025 13:43	66703	STRA_T1	22	60	38	0.41	0.25	-0.16	-0.05	-0.1	0	0	0	0	0	0
3/19/2025 13:43	57601	RUTH_T2	0	0	0	0	0	0	-0.2	-0.17	1	1	0	900	900	0
3/19/2025 13:43	14402	SSLA_T1	15	14	-1	0.4	0.46	0.06	0	0	0	0	0	0	0	0
3/19/2025 13:43	42201	SHEN_T2	2	4	2	0.5	0.58	0.08	-0.23	-0.21	1	1	0	600	600	0
3/19/2025 13:43	67002	STHI_T2	386	537	151	0.3	0.37	0.07	2.07	2.01	0	0	0	0	0	0
3/19/2025 13:43	14403	SSLA_T1	5	9	4	0.76	0.71	-0.05	0	0	0	0	0	0	0	0
3/19/2025 13:43	66701	STRA_T1	2	2	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/19/2025 13:43	13904	SEID_T1	0	0	0	0	0	0	0.17	0.17	0	0	0	0	0	0
3/19/2025 13:43	54602	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:43	14401	SSLA_T1	4	7	3	0.78	0.51	-0.27	-1.2	-1.2	0	0	0	0	0	0
3/19/2025 13:43	67001	STHI_T2	539	950	411	0.33	0.35	0.02	0.07	0.06	0	0	0	0	0	0
3/19/2025 13:43	14404	SSLA_T1	9	9	0	0.63	0.63	0	-0.06	-0.11	0	0	0	0	0	0
3/19/2025 13:43	13905	SEID_T1	3	2	-1	0.4	0.4	0	0	0	0	0	0	0	0	0
3/19/2025 13:43	54601	SUMM_T2	13	11	-2	0.85	0.87	0.02	-1.83	-1.83	2	2	0	2100	2100	0
3/19/2025 13:43	57603	RUTH_T2	8	9	1	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
3/19/2025 13:44	54602	SUMM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:44	52503	PROG_T2	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
3/19/2025 13:44	54601	SUMM_T2	13	11	-2	0.85	0.87	0.02	-1.83	-1.83	2	2	0	2100	2100	0
3/19/2025 13:44	42901	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:44	52502	PROG_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
3/19/2025 13:44	57602	RUTH_T2	0	0	0	0	0	0	0.35	0.8	0	0	0	0	0	0
3/19/2025 13:44	42903	MIDD_T2	2	2	0	1.05	1.6	0.55	0.44	0.36	2	2	0	2400	2400	0
3/19/2025 13:44	42902	MIDD_T2	1	11	10	0.1	0.57	0.47	0	0	0	0	0	0	0	0
3/19/2025 13:44	57603	RUTH_T2	8	9	1	0.38	0.32	-0.06	0	0	0	0	0	0	0	0
3/19/2025 13:44	14603	SWHI_T1	13	14	1	0.53	0.54	0.01	-1.01	-1.04	1	1	0	600	600	0
3/19/2025 13:44	14605	SWHI_T1	0	0	0	0	0	0	1.27	1.14	1	1	0	1200	1200	0
3/19/2025 13:44	14601	SWHI_T1	1	1	0	0.5	0.3	-0.2	-0.54	-0.48	0	0	0	0	0	0
3/19/2025 13:44	67601	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:45	66701	STRA_T1	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/19/2025 13:45	54601	SUMM_T2	11	11	0	0.85	0.95	0.1	-3.66	-3.66	4	4	0	4200	4200	0
3/19/2025 13:45	57602	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:45	67603	WARW_T1	3	4	1	0.87	0.48	-0.39	0	0	0	0	0	0	0	0
3/19/2025 13:45	10102	ALLE_T2	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:45	42802	SELI_T1	0	0	0	0	0	0	-1.17	-1.16	1	1	0	900	900	0
3/19/2025 13:45	44302	BEAV_T2	1	6	5	0.9	0.68	-0.22	0	0	0	0	0	0	0	0
3/19/2025 13:45	14603	SWHI_T1	13	8	-5	0.57	0.63	0.06	0	0	0	0	0	0	0	0
3/19/2025 13:45	54602	SUMM_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/19/2025 13:45	14601	SWHI_T1	1	1	0	0.3	0.1	-0.2	-0.27	-0.24	0	0	0	0	0	0
3/19/2025 13:45	14404	SSLA_T1	9	6	-3	0.61	0.75	0.14	-0.06	-0.11	0	0	0	0	0	0
3/19/2025 13:45	10203	ALLE_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/19/2025 13:45	57601	RUTH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:45	67605	WARW_T1	99	78	-21	0.54	0.6	0.06	-1.08	-1.05	0	0	0	0	0	0
3/19/2025 13:45	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:45	67604	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 13:45	44301	BEAV_T2	1	11	10	0.2	0.53	0.33	0.85	1.03	2	2	0	1500	1500	0
3/19/2025 13:45	66703	STRA_T1	18	80	62	0.38	0.22	-0.16	-0.05	-0.1	0	0	0	0	0	0
3/19/2025 13:45	14403	SSLA_T1	9	6	-3	0.71	0.67	-0.04	0	0	0	0	0	0	0	0
3/19/2025 13:45	14402	SSLA_T1	14	15	1	0.44	0.44	0	0	0	0	0	0	0	0	0
3/19/2025 13:45	57603	RUTH_T2	5	10	5	0.26	0.37	0.11	0	0	0	0	0	0	0	0
3/19/2025 13:45	67602	WARW_T2	0	0	0	0	0	0	3.02	2.76	0	2	2	0	600	600
3/19/2025 13:45	14401	SSLA_T1	7	3	-4	0.51	0.63	0.12	0	0	0	0	0	0	0	0
3/19/2025 13:46	14404	SSLA_T1	9	6	-3	0.61	0.75	0.14	0	0	0	0	0	0	0	0
3/19/2025 13:46	66703	STRA_T1	18	80	62	0.38	0.22	-0.16	-0.05	-0.1	0	0	0	0	0	0
3/19/2025 13:46	14602	SWHI_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
3/19/2025 13:46	14402	SSLA_T1	14	15	1	0.44	0.44	0	0	0	0	0	0	0	0	0
3/19/2025 13:46	54601	SUMM_T2	11	11	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:46	14401	SSLA_T1	7	3	-4	0.51	0.63	0.12	0	0	0	0	0	0	0	0
3/19/2025 13:46	66701	STRA_T1	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/19/2025 13:46	67001	STHI_T2	940	972	32	0.34	0.38	0.04	0.14	0.12	0	0	0	0	0	0
3/19/2025 13:46	43801	SWIL_T1	5	15	10	1.18	0.49	-0.69	0	0	0	0	0	0	0	0
3/19/2025 13:46	14603	SWHI_T1	13	8	-5	0.57	0.63	0.06	0	0	0	0	0	0	0	0
3/19/2025 13:46	43202	MVIL_T2	74	72	-2	0.34	0.25	-0.09	0	0	0	0	0	0	0	0
3/19/2025 13:46	67002	STHI_T2	517	597	80	0.37	0.39	0.02	3.45	3.35	0	0	0	0	0	0
3/19/2025 13:46	14601	SWHI_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/19/2025 13:46	67602	WARW_T2	0	0	0	0	0	0	6.04	5.52	0	4	4	0	1200	1200
3/19/2025 13:46	43802	SWIL_T1	2	4	2	0.85	0.55	-0.3	-0.29	-0.32	1	1	0	600	600	0
3/19/2025 13:46	14403	SSLA_T1	9	6	-3	0.71	0.67	-0.04	0.47	0.47	0	0	0	0	0	0
3/19/2025 13:46	54602	SUMM_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/19/2025 13:46	43201	MVIL_T2	1	1	0	0.1	0.5	0.4	-0.24	-0.25	0	0	0	0	0	0
3/19/2025 13:47	44301	BEAV_T2	1	11	10	0.2	0.53	0.33	0	0	0	0	0	0	0	0
3/19/2025 13:47	57602	RUTH_T2	0	0	0	0	0	0	0.07	0.16	0	0	0	0	0	0
3/19/2025 13:47	67602	WARW_T2	0	0	0	0	0	0	4.53	4.14	0	3	3	0	900	900
3/19/2025 13:47	67605	WARW_T1	99	78	-21	0.54	0.6	0.06	-1.08	-1.05	0	0	0	0	0	0
3/19/2025 13:47	67001	STHI_T2	940	972	32	0.34	0.38	0.04	0	0	0	0	0	0	0	0
3/19/2025 13:47	14603	SWHI_T1	13	8	-5	0.57	0.63	0.06	-1.01	-1.04	1	1	0	600	600	0
3/19/2025 13:47	10504	CRAC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:47	57603	RUTH_T2	5	10	5	0.26	0.37	0.11	0	0	0	0	0	0	0	0
3/19/2025 13:47	44302	BEAV_T2	1	6	5	0.9	0.68	-0.22	0	0	0	0	0	0	0	0
3/19/2025 13:47	67002	STHI_T2	517	597	80	0.37	0.39	0.02	2.76	2.68	0	0	0	0	0	0
3/19/2025 13:47	52204	DEVO_T2	2	3	1	0.6	0.6	0	0	0	0	0	0	0	0	0
3/19/2025 13:47	40502	CRES_T2	13	10	-3	0.26	0.27	0.01	0	0	0	0	0	0	0	0
3/19/2025 13:47	57601	RUTH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:47	10805	OHII_T2	2	1	-1	4.6	7.9	3.3	-0.39	-0.47	0	0	0	0	0	0
3/19/2025 13:47	52202	DEVO_T2	0	3	3	0	0.13	0.13	-0.78	-0.78	0	0	0	0	0	0
3/19/2025 13:47	67604	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 13:47	14601	SWHI_T1	1	1	0	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/19/2025 13:47	40501	CRES_T2	9	8	-1	0.66	0.49	-0.17	0	0	0	0	0	0	0	0
3/19/2025 13:47	10503	CRAC_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/19/2025 13:47	67603	WARW_T1	3	4	1	0.87	0.48	-0.39	0	0	0	0	0	0	0	0
3/19/2025 13:47	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:48	62602	ENGL_T1	2	1	-1	0.35	0.6	0.25	0	0	0	0	0	0	0	0
3/19/2025 13:48	67001	STHI_T2	940	972	32	0.34	0.38	0.04	0	0	0	0	0	0	0	0
3/19/2025 13:48	40505	CRES_T1	6	1	-5	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/19/2025 13:48	10503	CRAC_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/19/2025 13:48	57601	RUTH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:48	57602	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:48	67603	WARW_T1	3	4	1	0.87	0.48	-0.39	0	0	0	0	0	0	0	0
3/19/2025 13:48	67605	WARW_T1	99	78	-21	0.54	0.6	0.06	-1.08	-1.05	0	0	0	0	0	0
3/19/2025 13:48	62607	ENGL_T1	11	6	-5	0.25	0.32	0.07	0	0	0	0	0	0	0	0
3/19/2025 13:48	67604	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 13:48	67602	WARW_T2	0	0	0	0	0	0	4.53	4.14	0	3	3	0	900	900
3/19/2025 13:48	10504	CRAC_T1	0	0	0	0	0	0	1.12	1.08	0	0	0	0	0	0
3/19/2025 13:48	67002	STHI_T2	517	597	80	0.37	0.39	0.02	0.69	0.67	0	0	0	0	0	0
3/19/2025 13:48	62605	ENGL_T1	18	19	1	0.23	0.22	-0.01	-0.89	-0.89	0	0	0	0	0	0
3/19/2025 13:48	40504	CRES_T1	4	3	-1	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
3/19/2025 13:48	57603	RUTH_T2	5	10	5	0.26	0.37	0.11	0	0	0	0	0	0	0	0
3/19/2025 13:48	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:49	67001	STHI_T2	940	972	32	0.34	0.38	0.04	0	0	0	0	0	0	0	0
3/19/2025 13:49	67002	STHI_T2	517	597	80	0.37	0.39	0.02	0.69	0.67	0	0	0	0	0	0
3/19/2025 13:49	40505	CRES_T1	6	1	-5	0.3	0.1	-0.2	0.53	0.52	0	0	0	0	0	0
3/19/2025 13:49	10203	ALLE_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/19/2025 13:49	10102	ALLE_T2	1	1	0	6.5	6.6	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:49	40501	CRES_T2	9	8	-1	0.66	0.49	-0.17	0	0	0	0	0	0	0	0
3/19/2025 13:49	67605	WARW_T1	99	78	-21	0.54	0.6	0.06	-1.08	-1.05	0	0	0	0	0	0
3/19/2025 13:49	10502	CRAC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:49	10503	CRAC_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/19/2025 13:49	40502	CRES_T2	13	10	-3	0.26	0.27	0.01	0.32	0.32	0	0	0	0	0	0
3/19/2025 13:49	67604	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 13:49	45501	DERR_T2	3	3	0	0.4	0.43	0.03	0.44	0.59	2	2	0	1800	1800	0
3/19/2025 13:49	67603	WARW_T1	3	4	1	0.87	0.48	-0.39	0	0	0	0	0	0	0	0
3/19/2025 13:49	52204	DEVO_T2	2	3	1	0.6	0.6	0	0	0	0	0	0	0	0	0
3/19/2025 13:49	40504	CRES_T1	4	3	-1	0.43	0.3	-0.13	-1.5	-1.53	0	0	0	0	0	0
3/19/2025 13:49	52202	DEVO_T2	0	3	3	0	0.13	0.13	-1.55	-1.55	0	0	0	0	0	0
3/19/2025 13:49	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:50	52202	DEVO_T2	0	3	3	0	0.13	0.13	-0.78	-0.78	0	0	0	0	0	0
3/19/2025 13:50	54504	ENOL_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
3/19/2025 13:50	62602	ENGL_T1	2	1	-1	0.35	0.6	0.25	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 13:50	67604	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 13:50	45501	DERR_T2	3	3	0	0.4	0.43	0.03	0.44	0.59	2	2	0	1800	1800	0
3/19/2025 13:50	54501	ENOL_T2	3	3	0	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
3/19/2025 13:50	67605	WARW_T1	99	78	-21	0.54	0.6	0.06	-1.08	-1.05	0	0	0	0	0	0
3/19/2025 13:50	52204	DEVO_T2	2	3	1	0.6	0.6	0	0	0	0	0	0	0	0	0
3/19/2025 13:50	67603	WARW_T1	3	4	1	0.87	0.48	-0.39	0	0	0	0	0	0	0	0
3/19/2025 13:50	62605	ENGL_T1	18	19	1	0.23	0.22	-0.01	-0.89	-0.89	0	0	0	0	0	0
3/19/2025 13:50	62607	ENGL_T1	11	6	-5	0.25	0.32	0.07	-0.83	-0.83	0	0	0	0	0	0
3/19/2025 13:50	23901	EFMO_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
3/19/2025 13:50	54505	ENOL_T2	3	3	0	0.9	0.8	-0.1	-1.41	-1.43	1	1	0	600	600	0
3/19/2025 13:50	54502	ENOL_T2	5	9	4	0.5	0.32	-0.18	0	0	0	0	0	0	0	0
3/19/2025 13:50	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:51	22101	EDEL_T2	1	2	1	0.5	0.45	-0.05	0.25	0.26	1	1	0	1200	1200	0
3/19/2025 13:51	54502	ENOL_T2	5	9	4	0.5	0.32	-0.18	0	0	0	0	0	0	0	0
3/19/2025 13:51	40505	CRES_T1	6	1	-5	0.3	0.1	-0.2	0.26	0.26	0	0	0	0	0	0
3/19/2025 13:51	54501	ENOL_T2	3	3	0	0.17	0.13	-0.04	0	0	0	0	0	0	0	0
3/19/2025 13:51	54505	ENOL_T2	3	3	0	0.9	0.8	-0.1	-1.41	-1.43	1	1	0	600	600	0
3/19/2025 13:51	40504	CRES_T1	4	3	-1	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
3/19/2025 13:51	54504	ENOL_T2	1	1	0	0.8	0.5	-0.3	0	0	0	0	0	0	0	0
3/19/2025 13:52	64802	MONE_T2	301	314	13	0.63	0.59	-0.04	0	0	0	0	0	0	0	0
3/19/2025 13:52	21403	EXET_T2	1	1	0	0.9	0.9	0	-1.26	-1.26	0	0	0	0	0	0
3/19/2025 13:52	64801	MONE_T2	173	172	-1	1.38	1.4	0.02	-0.09	-0.08	0	0	0	0	0	0
3/19/2025 13:52	62607	ENGL_T1	11	6	-5	0.25	0.32	0.07	-0.83	-0.84	0	0	0	0	0	0
3/19/2025 13:52	41002	LAUR_T2	29	49	20	0.25	0.33	0.08	0	0	0	0	0	0	0	0
3/19/2025 13:52	41001	LAUR_T2	40	71	31	0.22	0.32	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:52	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:52	67605	WARW_T1	99	78	-21	0.54	0.6	0.06	0	0	0	0	0	0	0	0
3/19/2025 13:52	52204	DEVO_T2	2	3	1	0.6	0.6	0	0	0	0	0	0	0	0	0
3/19/2025 13:52	40504	CRES_T1	4	3	-1	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
3/19/2025 13:52	62605	ENGL_T1	18	19	1	0.23	0.22	-0.01	0	0	0	0	0	0	0	0
3/19/2025 13:52	62602	ENGL_T1	2	1	-1	0.35	0.6	0.25	0	0	0	0	0	0	0	0
3/19/2025 13:52	52202	DEVO_T2	0	3	3	0	0.13	0.13	-0.78	-0.79	0	0	0	0	0	0
3/19/2025 13:52	67603	WARW_T1	3	4	1	0.87	0.48	-0.39	0	0	0	0	0	0	0	0
3/19/2025 13:52	67604	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 13:52	40505	CRES_T1	6	1	-5	0.3	0.1	-0.2	0.26	0.29	0	0	0	0	0	0
3/19/2025 13:53	11507	FREE_T2	0	0	0	0	0	0	1.49	1.69	0	0	0	0	0	0
3/19/2025 13:53	62602	ENGL_T1	2	1	-1	0.35	0.6	0.25	0	0	0	0	0	0	0	0
3/19/2025 13:53	52004	LING_T2	8	8	0	2.19	2.06	-0.13	0.32	0.33	0	0	0	0	0	0
3/19/2025 13:53	40504	CRES_T1	4	3	-1	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
3/19/2025 13:53	53902	HALI_T2	6	5	-1	1.43	1.52	0.09	0	0	0	0	0	0	0	0
3/19/2025 13:53	53903	HALI_T2	11	10	-1	0.63	0.61	-0.02	-0.17	-0.17	0	0	0	0	0	0
3/19/2025 13:53	64801	MONE_T2	173	172	-1	1.38	1.4	0.02	-0.09	-0.08	0	0	0	0	0	0
3/19/2025 13:53	62607	ENGL_T1	11	6	-5	0.25	0.32	0.07	-0.83	-0.84	0	0	0	0	0	0
3/19/2025 13:53	40501	CRES_T2	9	8	-1	0.66	0.49	-0.17	0	0	0	0	0	0	0	0
3/19/2025 13:53	40502	CRES_T2	13	10	-3	0.26	0.27	0.01	0	0	0	0	0	0	0	0
3/19/2025 13:53	52503	PROG_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 13:53	62601	ENGL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:53	40505	CRES_T1	6	1	-5	0.3	0.1	-0.2	0.52	0.57	0	0	0	0	0	0
3/19/2025 13:53	52002	LING_T2	2	1	-1	0.8	1.2	0.4	0	0	0	0	0	0	0	0
3/19/2025 13:53	64802	MONE_T2	301	314	13	0.63	0.59	-0.04	0.26	0.24	0	0	0	0	0	0
3/19/2025 13:53	52006	LING_T2	2	2	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:53	53901	HALI_T2	5	5	0	0.46	0.46	0	0	0	0	0	0	0	0	0
3/19/2025 13:53	62605	ENGL_T1	18	19	1	0.23	0.22	-0.01	-0.89	-0.93	0	0	0	0	0	0
3/19/2025 13:54	51703	OBER_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 13:54	64802	MONE_T2	301	314	13	0.63	0.59	-0.04	0.26	0.24	0	0	0	0	0	0
3/19/2025 13:54	60504	NMAN_T2	3	3	0	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
3/19/2025 13:54	60502	NMAN_T2	11	10	-1	0.5	0.32	-0.18	0	0	0	0	0	0	0	0
3/19/2025 13:54	64801	MONE_T2	173	172	-1	1.38	1.4	0.02	0	0	0	0	0	0	0	0
3/19/2025 13:54	47002	HUGH_T2	2	3	1	0.35	0.53	0.18	0	0	0	0	0	0	0	0
3/19/2025 13:54	60501	NMAN_T2	272	297	25	0.35	0.38	0.03	0	0	0	0	0	0	0	0
3/19/2025 13:54	47001	HUGH_T2	6	6	0	4.57	4.8	0.23	-0.19	-0.19	0	0	0	0	0	0
3/19/2025 13:54	64704	LITI_T1	3	3	0	0.33	0.17	-0.16	0.7	0.34	2	2	0	1200	1200	0
3/19/2025 13:54	51701	OBER_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
3/19/2025 13:55	22404	MORG_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/19/2025 13:55	22403	MORG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:55	22405	MORG_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 13:55	22402	MORG_T2	18	17	-1	3.51	3.74	0.23	0	0	0	0	0	0	0	0
3/19/2025 13:55	60502	NMAN_T2	11	10	-1	0.5	0.32	-0.18	0	0	0	0	0	0	0	0
3/19/2025 13:55	60501	NMAN_T2	272	297	25	0.35	0.38	0.03	0	0	0	0	0	0	0	0
3/19/2025 13:55	22401	MORG_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/19/2025 13:55	60504	NMAN_T2	3	3	0	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
3/19/2025 13:56	60504	NMAN_T2	3	3	0	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
3/19/2025 13:56	13901	SEID_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/19/2025 13:56	60501	NMAN_T2	272	297	25	0.35	0.38	0.03	0	0	0	0	0	0	0	0
3/19/2025 13:56	60502	NMAN_T2	11	10	-1	0.5	0.32	-0.18	-0.93	-1	0	0	0	0	0	0
3/19/2025 13:56	51702	OBER_T1	2	2	0	3.3	3.45	0.15	-1.42	-1.49	0	0	0	0	0	0
3/19/2025 13:56	13905	SEID_T1	2	2	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/19/2025 13:56	13903	SEID_T1	0	0	0	0	0	0	0.48	0.6	0	0	0	0	0	0
3/19/2025 13:56	13902	SEID_T1	2	2	0	1.2	1.15	-0.05	0	0	0	0	0	0	0	0
3/19/2025 13:57	67605	WARW_T1	99	78	-21	0.54	0.6	0.06	-1.05	-1.06	0	0	0	0	0	0
3/19/2025 13:57	60504	NMAN_T2	3	3	0	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
3/19/2025 13:57	60501	NMAN_T2	272	297	25	0.35	0.38	0.03	0	0	0	0	0	0	0	0
3/19/2025 13:57	67603	WARW_T1	3	4	1	0.87	0.48	-0.39	0	0	0	0	0	0	0	0
3/19/2025 13:57	60502	NMAN_T2	11	10	-1	0.5	0.32	-0.18	-0.93	-1	0	0	0	0	0	0
3/19/2025 13:57	67604	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 13:58	10205	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:58	65904	SAKR_T2	15	13	-2	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
3/19/2025 13:58	57602	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:58	57601	RUTH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:58	60502	NMAN_T2	11	10	-1	0.5	0.32	-0.18	0	0	0	0	0	0	0	0
3/19/2025 13:58	65902	SAKR_T2	0	0	0	0	0	0	0	-0.09	0	0	0	0	0	0
3/19/2025 13:58	10103	ALLE_T3	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:58	10101	ALLE_T3	2	2	0	3.5	5.8	2.3	0	0	0	0	0	0	0	0
3/19/2025 13:58	65901	SAKR_T2	2	2	0	5.45	5.4	-0.05	0	0	0	0	0	0	0	0
3/19/2025 13:58	66701	STRA_T1	2	2	0	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/19/2025 13:58	60501	NMAN_T2	272	297	25	0.35	0.38	0.03	0	0	0	0	0	0	0	0
3/19/2025 13:58	60504	NMAN_T2	3	3	0	0.73	0.7	-0.03	0	0	0	0	0	0	0	0
3/19/2025 13:58	66703	STRA_T1	18	80	62	0.38	0.22	-0.16	0	0	0	0	0	0	0	0
3/19/2025 13:58	57603	RUTH_T2	5	10	5	0.26	0.37	0.11	0	0	0	0	0	0	0	0
3/19/2025 13:58	51702	OBER_T1	2	2	0	3.3	3.45	0.15	-1.42	-1.49	0	0	0	0	0	0
3/19/2025 13:58	58401	MORO_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 13:58	58402	MORO_T1	0	0	0	0	0	0	0.72	0.68	2	2	0	1800	1800	0
3/19/2025 13:58	43301	WATS_T2	1	2	1	0.4	0.2	-0.2	0.11	0.12	0	0	0	0	0	0
3/19/2025 13:59	57602	RUTH_T2	0	0	0	0	0	0	0.16	0.17	0	0	0	0	0	0
3/19/2025 13:59	57601	RUTH_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 13:59	21704	SUBU_T1	2	2	0	0.1	0.15	0.05	-2.46	-2.41	2	2	0	2400	2400	0
3/19/2025 13:59	21701	SUBU_T1	1	1	0	6.5	6.4	-0.1	0	0	0	0	0	0	0	0
3/19/2025 13:59	21705	SUBU_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
3/19/2025 13:59	57603	RUTH_T2	5	10	5	0.26	0.37	0.11	0	0	0	0	0	0	0	0
3/19/2025 14:00	18001	ZION_T1	7	8	1	0.5	0.61	0.11	0	0	0	0	0	0	0	0
3/19/2025 14:00	57602	RUTH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 14:00	57603	RUTH_T2	8	8	0	0.31	0.43	0.12	0	0	0	0	0	0	0	0
3/19/2025 14:01	57601	RUTH_T2	0	0	0	0	0	0	-0.17	-0.18	1	1	0	900	900	0
3/19/2025 14:01	13901	SEID_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/19/2025 14:01	57603	RUTH_T2	8	8	0	0.31	0.43	0.12	0	0	0	0	0	0	0	0
3/19/2025 14:01	13902	SEID_T1	2	2	0	1.15	1	-0.15	0	0	0	0	0	0	0	0
3/19/2025 14:01	60501	NMAN_T2	285	275	-10	0.36	0.36	0	0	0	0	0	0	0	0	0
3/19/2025 14:01	57602	RUTH_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 14:01	13905	SEID_T1	2	2	0	0.4	0.3	-0.1	0.19	0.17	0	0	0	0	0	0
3/19/2025 14:01	60504	NMAN_T2	3	3	0	0.67	0.67	0	0	0	0	0	0	0	0	0
3/19/2025 14:01	60502	NMAN_T2	10	8	-2	0.31	0.26	-0.05	-0.93	-1	0	0	0	0	0	0
3/19/2025 14:02	61103	BERK_T5	41	138	97	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
3/19/2025 14:02	61101	BERK_T5	6	17	11	0.62	0.33	-0.29	0	0	0	0	0	0	0	0
3/19/2025 14:02	61102	BERK_T5	7	9	2	0.33	0.33	0	0	0	0	0	0	0	0	0
3/19/2025 14:03	61101	BERK_T5	6	17	11	0.62	0.33	-0.29	0	0	0	0	0	0	0	0
3/19/2025 14:03	61103	BERK_T5	41	138	97	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
3/19/2025 14:03	57603	RUTH_T2	8	8	0	0.31	0.43	0.12	0	0	0	0	0	0	0	0
3/19/2025 14:03	57602	RUTH_T2	0	1	1	0	0.1	0.1	0.16	0.17	0	0	0	0	0	0
3/19/2025 14:03	61102	BERK_T5	7	9	2	0.33	0.33	0	0.39	0.65	2	2	0	600	600	0
3/19/2025 14:03	57601	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 14:04	61801	EELI_T2	3	0	-3	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 14:04	61101	BERK_T5	6	17	11	0.62	0.33	-0.29	0	0	0	0	0	0	0	0
3/19/2025 14:04	61102	BERK_T5	7	9	2	0.33	0.33	0	0.2	0.33	1	1	0	300	300	0
3/19/2025 14:04	45501	DERR_T2	3	3	0	0.33	0.33	0	1.18	1.1	4	4	0	3600	3600	0
3/19/2025 14:04	61103	BERK_T5	41	138	97	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
3/19/2025 14:05	61102	BERK_T5	7	9	2	0.33	0.33	0	0.59	0.98	3	3	0	900	900	0
3/19/2025 14:05	61101	BERK_T5	6	17	11	0.62	0.33	-0.29	0	0	0	0	0	0	0	0
3/19/2025 14:05	61103	BERK_T5	41	138	97	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
3/19/2025 14:05	24501	GOUL_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
3/19/2025 14:07	61101	BERK_T5	6	17	11	0.62	0.33	-0.29	0	0	0	0	0	0	0	0
3/19/2025 14:07	61103	BERK_T5	41	138	97	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
3/19/2025 14:07	61102	BERK_T5	7	9	2	0.33	0.33	0	0.33	0.12	1	1	0	300	300	0
3/19/2025 14:08	61102	BERK_T5	7	9	2	0.33	0.33	0	0.33	0.12	1	1	0	300	300	0
3/19/2025 14:08	52401	GRPA_T2	1	4	3	0.3	0.43	0.13	0	0	0	0	0	0	0	0
3/19/2025 14:08	61103	BERK_T5	41	138	97	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
3/19/2025 14:08	52402	GRPA_T2	43	9	-34	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/19/2025 14:08	61101	BERK_T5	6	17	11	0.62	0.33	-0.29	0	0	0	0	0	0	0	0
3/19/2025 14:08	52403	GRPA_T2	26	19	-7	0.87	0.51	-0.36	-0.54	-0.61	0	0	0	0	0	0
3/19/2025 14:09	47403	PENS_T1	1	1	0	1	0.8	-0.2	0	0	0	0	0	0	0	0
3/19/2025 14:09	17803	GILB_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 14:09	17804	GILB_T2	7	27	20	0.63	0.32	-0.31	0	0	0	0	0	0	0	0
3/19/2025 14:09	47401	PENS_T1	2	3	1	0.3	0.87	0.57	0	0	0	0	0	0	0	0
3/19/2025 14:09	17805	GILB_T2	5	5	0	0.64	0.6	-0.04	0	0	0	0	0	0	0	0
3/19/2025 14:09	47402	PENS_T1	1	2	1	0.5	0.5	0	0	0	0	0	0	0	0	0
3/19/2025 14:10	61103	BERK_T5	41	138	97	0.26	0.2	-0.06	0	0	0	0	0	0	0	0
3/19/2025 14:10	61101	BERK_T5	6	17	11	0.62	0.33	-0.29	0	0	0	0	0	0	0	0
3/19/2025 14:10	61102	BERK_T5	7	9	2	0.33	0.33	0	0.33	0.12	1	1	0	300	300	0
3/19/2025 14:11	51702	OBER_T1	2	2	0	3.4	3.45	0.05	-1.49	-1.45	0	0	0	0	0	0
3/19/2025 14:12	14603	SWHI_T1	8	7	-1	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
3/19/2025 14:12	46302	ROHR_T1	5	6	1	1	0.85	-0.15	0.08	0.08	0	0	0	0	0	0
3/19/2025 14:12	43801	SWIL_T1	9	26	17	0.73	0.37	-0.36	0	0	0	0	0	0	0	0
3/19/2025 14:12	46301	ROHR_T1	8	8	0	1.31	1.21	-0.1	0.19	0.2	0	0	0	0	0	0
3/19/2025 14:12	15103	UPHA_T2	8	8	0	0.66	0.78	0.12	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 14:12	43802	SWIL_T1	4	2	-2	0.55	0.25	-0.3	-0.32	-0.34	1	1	0	600	600	0
3/19/2025 14:12	15104	UPHA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 14:12	14601	SWHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 14:13	14603	SWHI_T1	8	7	-1	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
3/19/2025 14:13	46302	ROHR_T1	5	6	1	1	0.85	-0.15	0.08	0.08	0	0	0	0	0	0
3/19/2025 14:13	46301	ROHR_T1	8	8	0	1.31	1.21	-0.1	0	0	0	0	0	0	0	0
3/19/2025 14:13	15104	UPHA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 14:13	15103	UPHA_T2	8	8	0	0.66	0.78	0.12	0.3	0.3	0	0	0	0	0	0
3/19/2025 14:13	43801	SWIL_T1	9	26	17	0.73	0.37	-0.36	0	0	0	0	0	0	0	0
3/19/2025 14:13	15102	UPHA_T1	6	8	2	0.6	0.55	-0.05	0	0	0	0	0	0	0	0
3/19/2025 14:13	14802	TREI_T2	6	8	2	0.37	0.44	0.07	0.27	0.4	0	0	0	0	0	0
3/19/2025 14:13	14801	TREI_T2	6	8	2	0.67	0.59	-0.08	0	0	0	0	0	0	0	0
3/19/2025 14:13	43802	SWIL_T1	4	2	-2	0.55	0.25	-0.3	-0.32	-0.34	1	1	0	600	600	0
3/19/2025 14:13	14601	SWHI_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 14:13	14602	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 14:13	15101	UPHA_T1	1	1	0	1.3	1.4	0.1	0.69	0.68	0	0	0	0	0	0
3/19/2025 14:14	14603	SWHI_T1	8	7	-1	0.63	0.5	-0.13	0	0	0	0	0	0	0	0
3/19/2025 14:14	15103	UPHA_T2	8	8	0	0.66	0.78	0.12	0	0	0	0	0	0	0	0
3/19/2025 14:14	51702	OBER_T1	2	2	0	3.4	3.45	0.05	-1.49	-1.45	0	0	0	0	0	0
3/19/2025 14:14	15104	UPHA_T2	0	1	1	0	0.1	0.1	0.62	0.65	0	0	0	0	0	0
3/19/2025 14:14	59402	RFLD_T2	4	5	1	0.5	0.38	-0.12	-0.22	-0.21	1	1	0	450	450	0
3/19/2025 14:14	14604	SWHI_T1	0	0	0	0	0	0	-0.05	-0.05	1	1	0	900	900	0
3/19/2025 14:14	14601	SWHI_T1	1	0	-1	0.1	0	-0.1	-0.27	-0.27	0	0	0	0	0	0
3/19/2025 14:14	14802	TREI_T2	6	8	2	0.37	0.44	0.07	0.27	0.4	0	0	0	0	0	0
3/19/2025 14:14	14801	TREI_T2	6	8	2	0.67	0.59	-0.08	0	0	0	0	0	0	0	0
3/19/2025 14:14	59201	THOM_T1	1	1	0	0.7	0.3	-0.4	0	0	0	0	0	0	0	0
3/19/2025 14:14	59202	THOM_T1	5	5	0	0.7	0.28	-0.42	0	0	0	0	0	0	0	0
3/19/2025 14:15	14603	SWHI_T1	5	8	3	0.58	0.33	-0.25	0	0	0	0	0	0	0	0
3/19/2025 14:15	14802	TREI_T2	8	4	-4	0.4	0.23	-0.17	0.27	0.4	0	0	0	0	0	0
3/19/2025 14:15	14801	TREI_T2	6	5	-1	0.67	0.52	-0.15	0	0	0	0	0	0	0	0
3/19/2025 14:15	15104	UPHA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 14:15	43801	SWIL_T1	15	31	16	0.48	0.34	-0.14	0	0	0	0	0	0	0	0
3/19/2025 14:15	43802	SWIL_T1	2	1	-1	0.25	0.3	0.05	-0.32	-0.34	1	1	0	600	600	0
3/19/2025 14:15	14605	SWHI_T1	0	0	0	0	0	0	1.13	1.24	1	1	0	1200	1200	0
3/19/2025 14:15	14604	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 14:15	15103	UPHA_T2	8	6	-2	0.78	0.72	-0.06	0.3	0.3	0	0	0	0	0	0
3/19/2025 14:16	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 14:16	59201	THOM_T1	1	2	1	0.3	0.15	-0.15	0	0	0	0	0	0	0	0
3/19/2025 14:16	59202	THOM_T1	5	6	1	0.28	0.22	-0.06	0	0	0	0	0	0	0	0
3/19/2025 14:19	22003	BOHE_T1	6	4	-2	0.67	0.85	0.18	0	0	0	0	0	0	0	0
3/19/2025 14:19	22002	BOHE_T1	0	0	0	0	0	0	0.24	0.2	0	0	0	0	0	0
3/19/2025 14:22	60502	NMAN_T2	6	11	5	0.28	0.29	0.01	-0.92	-1.01	0	0	0	0	0	0
3/19/2025 14:22	60501	NMAN_T2	272	280	8	0.36	0.36	0	0	0	0	0	0	0	0	0
3/19/2025 14:22	60504	NMAN_T2	3	3	0	0.67	0.4	-0.27	0	0	0	0	0	0	0	0
3/19/2025 14:24	64202	KINZ_T1	3	3	0	0.67	0.57	-0.1	0	0	0	0	0	0	0	0
3/19/2025 14:24	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 14:24	64204	KINZ_T1	69	68	-1	1.46	1.38	-0.08	0	0	0	0	0	0	0	0
3/19/2025 14:25	14604	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 14:25	64901	MILL_T1	32	45	13	0.18	0.28	0.1	0	0	0	0	0	0	0	0
3/19/2025 14:25	14603	SWHI_T1	5	8	3	0.58	0.33	-0.25	0	0	0	0	0	0	0	0
3/19/2025 14:25	64904	MILL_T1	4	7	3	0.13	0.19	0.06	0.38	0.42	0	0	0	0	0	0
3/19/2025 14:25	41902	REED_T1	0	2	2	0	0.4	0.4	1.06	1	0	0	0	0	0	0
3/19/2025 14:25	42903	MIDD_T2	2	2	0	0.3	0.25	-0.05	1.9	1.38	0	0	0	0	0	0
3/19/2025 14:25	42902	MIDD_T2	11	14	3	0.5	0.51	0.01	-1.08	-1	0	0	0	0	0	0
3/19/2025 14:26	46506	LOHA_T1	3	3	0	5.13	5.6	0.47	0	0	0	0	0	0	0	0
3/19/2025 14:26	60504	NMAN_T2	3	3	0	0.67	0.4	-0.27	0	0	0	0	0	0	0	0
3/19/2025 14:26	46504	LOHA_T1	37	52	15	0.31	0.49	0.18	0	0	0	0	0	0	0	0
3/19/2025 14:26	60501	NMAN_T2	272	280	8	0.36	0.36	0	0	0	0	0	0	0	0	0
3/19/2025 14:26	64204	KINZ_T1	69	68	-1	1.46	1.38	-0.08	0	0	0	0	0	0	0	0
3/19/2025 14:26	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 14:26	60502	NMAN_T2	6	11	5	0.28	0.29	0.01	-0.92	-1.01	0	0	0	0	0	0
3/19/2025 14:26	41902	REED_T1	0	2	2	0	0.4	0.4	1.06	1	0	0	0	0	0	0
3/19/2025 14:26	46502	LOHA_T1	0	0	0	0	0	0	-1.44	-1.42	1	1	0	1200	1200	0
3/19/2025 14:26	64202	KINZ_T1	3	3	0	0.67	0.57	-0.1	0	0	0	0	0	0	0	0
3/19/2025 14:26	42902	MIDD_T2	11	14	3	0.5	0.51	0.01	-0.54	-0.5	0	0	0	0	0	0
3/19/2025 14:26	42903	MIDD_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
3/19/2025 14:28	67101	SPRI_T2	1	1	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
3/19/2025 14:28	67106	SPRI_T2	3	3	0	0.2	0.27	0.07	0	0	0	0	0	0	0	0
3/19/2025 14:28	42903	MIDD_T2	2	2	0	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
3/19/2025 14:28	46302	ROHR_T1	6	3	-3	0.85	1.33	0.48	0.08	0.08	0	0	0	0	0	0
3/19/2025 14:28	60504	NMAN_T2	3	3	0	0.67	0.4	-0.27	0	0	0	0	0	0	0	0
3/19/2025 14:28	60501	NMAN_T2	272	280	8	0.36	0.36	0	0	0	0	0	0	0	0	0
3/19/2025 14:28	42902	MIDD_T2	11	14	3	0.5	0.51	0.01	0	0	0	0	0	0	0	0
3/19/2025 14:28	67102	SPRI_T2	7	3	-4	0.26	0.47	0.21	0	0	0	0	0	0	0	0
3/19/2025 14:28	46301	ROHR_T1	8	10	2	1.18	2.33	1.15	0	0	0	0	0	0	0	0
3/19/2025 14:28	60502	NMAN_T2	6	11	5	0.28	0.29	0.01	-0.92	-1.01	0	0	0	0	0	0
3/19/2025 14:29	15404	WALL_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
3/19/2025 14:29	67102	SPRI_T2	7	3	-4	0.26	0.47	0.21	0	0	0	0	0	0	0	0
3/19/2025 14:29	15402	WALL_T1	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
3/19/2025 14:29	60501	NMAN_T2	272	280	8	0.36	0.36	0	0	0	0	0	0	0	0	0
3/19/2025 14:29	60502	NMAN_T2	6	11	5	0.28	0.29	0.01	-0.92	-1.01	0	0	0	0	0	0
3/19/2025 14:29	43402	BENT_T1	2	7	5	1.2	0.57	-0.63	-0.78	-0.77	1	1	0	900	900	0
3/19/2025 14:29	67106	SPRI_T2	3	3	0	0.2	0.27	0.07	-2.64	-2.64	2	2	0	1800	1800	0
3/19/2025 14:29	14801	TREI_T2	6	5	-1	0.67	0.52	-0.15	0	0	0	0	0	0	0	0
3/19/2025 14:29	14802	TREI_T2	8	4	-4	0.4	0.23	-0.17	0.4	0.32	0	0	0	0	0	0
3/19/2025 14:29	60504	NMAN_T2	3	3	0	0.67	0.4	-0.27	0	0	0	0	0	0	0	0
3/19/2025 14:29	67101	SPRI_T2	1	1	0	2.3	2.4	0.1	0	0	0	0	0	0	0	0
3/19/2025 14:30	43402	BENT_T1	5	26	21	0.76	0.33	-0.43	-0.78	-0.77	1	1	0	900	900	0
3/19/2025 14:30	14802	TREI_T2	4	7	3	0.23	0.27	0.04	0.8	0.64	0	0	0	0	0	0
3/19/2025 14:30	14402	SSLA_T1	10	5	-5	0.36	0.42	0.06	0	0	0	0	0	0	0	0
3/19/2025 14:30	66903	SHIL_T2	4	8	4	0.3	0.36	0.06	0	0	0	0	0	0	0	0
3/19/2025 14:30	67101	SPRI_T2	1	1	0	1.6	2.4	0.8	0	0	0	0	0	0	0	0
3/19/2025 14:30	67106	SPRI_T2	2	3	1	0.1	0.27	0.17	-1.32	-1.32	1	1	0	900	900	0
3/19/2025 14:30	66901	SHIL_T2	7	8	1	0.36	0.45	0.09	-0.51	-0.49	0	0	0	0	0	0
3/19/2025 14:30	15404	WALL_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
3/19/2025 14:30	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/19/2025 14:30	14801	TREI_T2	5	4	-1	0.52	0.48	-0.04	0	0	0	0	0	0	0	0
3/19/2025 14:30	14401	SSLA_T1	1	1	0	0.6	0.4	-0.2	-0.5	-0.56	0	0	0	0	0	0
3/19/2025 14:30	14404	SSLA_T1	5	5	0	0.5	0.24	-0.26	0	0	0	0	0	0	0	0
3/19/2025 14:30	66902	SHIL_T2	6	9	3	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/19/2025 14:30	14403	SSLA_T1	3	1	-2	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
3/19/2025 14:30	67102	SPRI_T2	2	3	1	0.2	0.47	0.27	0	0	0	0	0	0	0	0
3/19/2025 14:31	44302	BEAV_T2	6	4	-2	0.7	0.53	-0.17	0.52	0.54	0	0	0	0	0	0
3/19/2025 14:31	60502	NMAN_T2	8	9	1	0.25	0.3	0.05	-0.92	-1.01	0	0	0	0	0	0
3/19/2025 14:31	44301	BEAV_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 14:31	45902	AUBU_T1	0	0	0	0	0	0	0	0	3	3	0	1800	1800	0
3/19/2025 14:31	51109	CARL_T1	3	2	-1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
3/19/2025 14:31	51102	CARL_T1	11	7	-4	0.45	0.29	-0.16	0	0	0	0	0	0	0	0
3/19/2025 14:31	60504	NMAN_T2	2	3	1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
3/19/2025 14:31	60501	NMAN_T2	234	290	56	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/19/2025 14:31	41902	REED_T1	1	2	1	0.4	0.4	0	1.06	1	0	0	0	0	0	0
3/19/2025 14:31	51108	CARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/19/2025 14:31	51101	CARL_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
3/19/2025 14:32	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 14:32	14801	TREI_T2	5	4	-1	0.52	0.48	-0.04	0.19	0.2	0	0	0	0	0	0
3/19/2025 14:32	10102	ALLE_T2	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
3/19/2025 14:32	41602	CLEV_T1	4	2	-2	0.7	0.7	0	0	0	0	0	0	0	0	0
3/19/2025 14:32	14802	TREI_T2	4	7	3	0.23	0.27	0.04	0	0	0	0	0	0	0	0
3/19/2025 14:32	41601	CLEV_T1	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
3/19/2025 14:32	10203	ALLE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 14:33	62602	ENGL_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/19/2025 14:33	62605	ENGL_T1	7	29	22	0.14	0.26	0.12	0	0	0	0	0	0	0	0
3/19/2025 14:33	62601	ENGL_T1	1	0	-1	4.4	0	-4.4	0	0	0	0	0	0	0	0
3/19/2025 14:33	15404	WALL_T1	0	0	0	0	0	0	-0.37	-0.37	0	0	0	0	0	0
3/19/2025 14:33	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 14:33	66903	SHIL_T2	4	8	4	0.3	0.36	0.06	0	0	0	0	0	0	0	0
3/19/2025 14:33	62607	ENGL_T1	3	23	20	0.23	0.24	0.01	-0.83	-0.84	0	0	0	0	0	0
3/19/2025 14:33	66902	SHIL_T2	6	9	3	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/19/2025 14:33	66901	SHIL_T2	7	8	1	0.36	0.45	0.09	-0.51	-0.49	0	0	0	0	0	0
3/19/2025 14:33	41504	FAIR_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
3/19/2025 14:34	41601	CLEV_T1	2	1	-1	0.25	0.4	0.15	0	0	0	0	0	0	0	0
3/19/2025 14:34	61703	ELIZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/19/2025 14:34	41602	CLEV_T1	4	2	-2	0.7	0.7	0	0	0	0	0	0	0	0	0
3/19/2025 14:34	10504	CRAC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 14:34	10503	CRAC_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 14:34	61701	ELIZ_T1	2	2	0	3.15	3.55	0.4	0.07	0.07	0	0	0	0	0	0
3/19/2025 14:34	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/19/2025 14:35	54505	ENOL_T2	3	4	1	0.83	0.63	-0.2	0	0	0	0	0	0	0	0
3/19/2025 14:35	51101	CARL_T1	1	1	0	5.8	5.9	0.1	0	0	0	0	0	0	0	0
3/19/2025 14:35	54502	ENOL_T2	18	40	22	0.21	0.17	-0.04	-2.09	-2.15	1	1	0	600	600	0
3/19/2025 14:35	10503	CRAC_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 14:35	54504	ENOL_T2	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
3/19/2025 14:35	21901	HUMB_T1	0	0	0	0	0	0	-0.97	-0.97	0	0	0	0	0	0
3/19/2025 14:35	51109	CARL_T1	3	2	-1	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
3/19/2025 14:35	51108	CARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/19/2025 14:35	54501	ENOL_T2	4	4	0	0.43	0.48	0.05	0	0	0	0	0	0	0	0
3/19/2025 14:35	10504	CRAC_T1	0	0	0	0	0	0	1.3	1.11	0	0	0	0	0	0
3/19/2025 14:35	51102	CARL_T1	11	7	-4	0.45	0.29	-0.16	0	0	0	0	0	0	0	0
3/19/2025 14:36	62601	ENGL_T1	1	0	-1	4.4	0	-4.4	0	0	0	0	0	0	0	0
3/19/2025 14:36	41501	FAIR_T2	0	0	0	0	0	0	-0.9	-0.94	1	1	0	600	600	0
3/19/2025 14:36	62607	ENGL_T1	3	23	20	0.23	0.24	0.01	0	0	0	0	0	0	0	0
3/19/2025 14:36	64702	LITI_T2	0	0	0	0	0	0	-0.68	-0.6	0	0	0	0	0	0
3/19/2025 14:36	62602	ENGL_T1	1	2	1	0.2	0.4	0.2	0.05	0.05	0	0	0	0	0	0
3/19/2025 14:36	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 14:36	41502	FAIR_T2	0	0	0	0	0	0	-0.7	-0.7	0	0	0	0	0	0
3/19/2025 14:36	10102	ALLE_T2	1	1	0	6.6	6.6	0	0	0	0	0	0	0	0	0
3/19/2025 14:36	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 14:36	10203	ALLE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 14:36	62605	ENGL_T1	7	29	22	0.14	0.26	0.12	0	0	0	0	0	0	0	0
3/19/2025 14:37	41501	FAIR_T2	0	0	0	0	0	0	-0.94	-0.99	1	1	0	600	600	0
3/19/2025 14:37	17802	GILB_T1	10	8	-2	0.49	0.58	0.09	-0.01	-0.01	0	0	0	0	0	0
3/19/2025 14:37	41502	FAIR_T2	0	0	0	0	0	0	-0.7	-0.71	0	0	0	0	0	0
3/19/2025 14:38	41501	FAIR_T2	0	0	0	0	0	0	-0.94	-0.99	1	1	0	600	600	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 14:39	47101	MARL_T1	0	0	0	0	0	0	-1.27	-1.27	0	0	0	0	0	0
3/19/2025 14:39	64702	LITI_T2	0	0	0	0	0	0	-0.68	-0.6	0	0	0	0	0	0
3/19/2025 14:40	62605	ENGL_T1	7	29	22	0.14	0.26	0.12	0	0	0	0	0	0	0	0
3/19/2025 14:40	62602	ENGL_T1	1	2	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/19/2025 14:40	62606	ENGL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 14:40	62601	ENGL_T1	1	0	-1	4.4	0	-4.4	0	0	0	0	0	0	0	0
3/19/2025 14:40	62607	ENGL_T1	3	23	20	0.23	0.24	0.01	-0.84	-0.82	0	0	0	0	0	0
3/19/2025 14:41	66503	SMAN_T2	2	2	0	0.7	1.05	0.35	0	0	0	0	0	0	0	0
3/19/2025 14:41	66501	SMAN_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
3/19/2025 14:41	66502	SMAN_T2	13	19	6	0.31	0.3	-0.01	0.21	0.21	0	0	0	0	0	0
3/19/2025 14:41	66504	SMAN_T2	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
3/19/2025 14:43	66504	SMAN_T2	2	2	0	0.5	0.55	0.05	-0.4	-0.47	0	0	0	0	0	0
3/19/2025 14:43	66503	SMAN_T2	2	2	0	0.7	1.05	0.35	0	0	0	0	0	0	0	0
3/19/2025 14:43	66502	SMAN_T2	13	19	6	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
3/19/2025 14:43	66501	SMAN_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
3/19/2025 14:44	67402	WAKE_T2	3	6	3	0.33	0.25	-0.08	0.26	0.16	0	0	0	0	0	0
3/19/2025 14:44	13905	SEID_T1	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/19/2025 14:44	13901	SEID_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 14:44	66502	SMAN_T2	13	19	6	0.31	0.3	-0.01	0.42	0.42	0	0	0	0	0	0
3/19/2025 14:44	67401	WAKE_T2	3	90	87	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/19/2025 14:44	66504	SMAN_T2	2	2	0	0.5	0.55	0.05	-0.8	-0.94	0	0	0	0	0	0
3/19/2025 14:44	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 14:44	66501	SMAN_T2	2	2	0	0.6	0.65	0.05	0	0	0	0	0	0	0	0
3/19/2025 14:44	66503	SMAN_T2	2	2	0	0.7	1.05	0.35	0	0	0	0	0	0	0	0
3/19/2025 14:44	13902	SEID_T1	2	1	-1	0.75	0.2	-0.55	0	0	0	0	0	0	0	0
3/19/2025 14:45	43801	SWIL_T1	29	51	22	0.36	0.33	-0.03	-0.86	-0.86	1	1	0	600	600	0
3/19/2025 14:45	43802	SWIL_T1	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
3/19/2025 14:45	66502	SMAN_T2	18	18	0	0.29	0.44	0.15	0.42	0.42	0	0	0	0	0	0
3/19/2025 14:45	67402	WAKE_T2	3	7	4	0.23	0.26	0.03	0.26	0.16	0	0	0	0	0	0
3/19/2025 14:45	66504	SMAN_T2	2	6	4	0.55	0.33	-0.22	-0.4	-0.47	0	0	0	0	0	0
3/19/2025 14:45	66501	SMAN_T2	2	2	0	0.65	0.85	0.2	0	0	0	0	0	0	0	0
3/19/2025 14:45	66503	SMAN_T2	2	2	0	0.55	1.15	0.6	0.33	0.33	0	0	0	0	0	0
3/19/2025 14:45	67401	WAKE_T2	65	101	36	0.22	0.33	0.11	-3.45	-3.3	0	0	0	0	0	0
3/19/2025 14:46	60201	ATGL_T2	53	113	60	0.15	0.26	0.11	0	0	0	0	0	0	0	0
3/19/2025 14:46	66502	SMAN_T2	18	18	0	0.29	0.44	0.15	0	0	0	0	0	0	0	0
3/19/2025 14:46	66501	SMAN_T2	2	2	0	0.65	0.85	0.2	0	0	0	0	0	0	0	0
3/19/2025 14:46	67402	WAKE_T2	3	7	4	0.23	0.26	0.03	0.26	0.16	0	0	0	0	0	0
3/19/2025 14:46	67401	WAKE_T2	65	101	36	0.22	0.33	0.11	0	0	0	0	0	0	0	0
3/19/2025 14:46	56504	ROCK_T2	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
3/19/2025 14:46	56501	ROCK_T2	3	4	1	0.43	0.35	-0.08	0	0	0	0	0	0	0	0
3/19/2025 14:46	66504	SMAN_T2	2	6	4	0.55	0.33	-0.22	-0.8	-0.94	0	0	0	0	0	0
3/19/2025 14:46	57002	WHHI_T2	0	0	0	0	0	0	-1.06	-1.07	1	1	0	1200	1200	0
3/19/2025 14:46	66503	SMAN_T2	2	2	0	0.55	1.15	0.6	0	0	0	0	0	0	0	0
3/19/2025 14:47	66503	SMAN_T2	2	2	0	0.55	1.15	0.6	0	0	0	0	0	0	0	0
3/19/2025 14:47	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 14:47	66504	SMAN_T2	2	6	4	0.55	0.33	-0.22	-0.4	-0.47	0	0	0	0	0	0
3/19/2025 14:47	66502	SMAN_T2	18	18	0	0.29	0.44	0.15	0.21	0.21	0	0	0	0	0	0
3/19/2025 14:47	66501	SMAN_T2	2	2	0	0.65	0.85	0.2	0	0	0	0	0	0	0	0
3/19/2025 14:48	66504	SMAN_T2	2	6	4	0.55	0.33	-0.22	-0.4	-0.47	0	0	0	0	0	0
3/19/2025 14:48	66501	SMAN_T2	2	2	0	0.65	0.85	0.2	0	0	0	0	0	0	0	0
3/19/2025 14:48	66503	SMAN_T2	2	2	0	0.55	1.15	0.6	0	0	0	0	0	0	0	0
3/19/2025 14:48	27502	WEIS_T2	2	4	2	0.5	0.38	-0.12	-1.2	-1.24	0	0	0	0	0	0
3/19/2025 14:48	66502	SMAN_T2	18	18	0	0.29	0.44	0.15	0	0	0	0	0	0	0	0
3/19/2025 14:48	27503	WEIS_T2	3	4	1	0.47	0.4	-0.07	0	0	0	0	0	0	0	0
3/19/2025 14:49	45501	DERR_T2	0	0	0	0	0	0	0.32	0.23	2	2	0	1800	1800	0
3/19/2025 14:50	16002	DORN_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/19/2025 14:50	45501	DERR_T2	0	0	0	0	0	0	0.32	0.23	2	2	0	1800	1800	0
3/19/2025 14:50	16006	DORN_T2	0	0	0	0	0	0	0.74	0.73	0	0	0	0	0	0
3/19/2025 14:53	66503	SMAN_T2	2	2	0	0.55	1.15	0.6	0	0	0	0	0	0	0	0
3/19/2025 14:53	66501	SMAN_T2	2	2	0	0.65	0.85	0.2	0	0	0	0	0	0	0	0
3/19/2025 14:53	66504	SMAN_T2	2	6	4	0.55	0.33	-0.22	0	0	0	0	0	0	0	0
3/19/2025 14:53	66502	SMAN_T2	18	18	0	0.29	0.44	0.15	0	0	0	0	0	0	0	0
3/19/2025 14:57	66503	SMAN_T2	2	2	0	0.55	1.15	0.6	0	0	0	0	0	0	0	0
3/19/2025 14:57	66504	SMAN_T2	2	6	4	0.55	0.33	-0.22	0	0	0	0	0	0	0	0
3/19/2025 14:57	66502	SMAN_T2	18	18	0	0.29	0.44	0.15	0	0	0	0	0	0	0	0
3/19/2025 14:57	66501	SMAN_T2	2	2	0	0.65	0.85	0.2	0	0	0	0	0	0	0	0
3/19/2025 15:00	41602	CLEV_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/19/2025 15:00	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:01	41305	FISH_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/19/2025 15:01	41301	FISH_T1	5	4	-1	1.4	1.33	-0.07	-0.66	-0.68	0	0	0	0	0	0
3/19/2025 15:01	52204	DEVO_T2	3	2	-1	0.53	0.2	-0.33	0	0	0	0	0	0	0	0
3/19/2025 15:01	17804	GILB_T2	8	9	1	0.54	0.59	0.05	0	0	0	0	0	0	0	0
3/19/2025 15:01	17805	GILB_T2	5	7	2	0.58	0.4	-0.18	-0.24	-0.38	0	0	0	0	0	0
3/19/2025 15:01	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:01	17803	GILB_T2	2	1	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
3/19/2025 15:02	17804	GILB_T2	8	9	1	0.54	0.59	0.05	0	0	0	0	0	0	0	0
3/19/2025 15:02	63501	HEID_TBK1-2	62	77	15	0.25	0.27	0.02	0.27	0.18	1	1	0	900	900	0
3/19/2025 15:02	17803	GILB_T2	2	1	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
3/19/2025 15:02	17805	GILB_T2	5	7	2	0.58	0.4	-0.18	-0.12	-0.19	0	0	0	0	0	0
3/19/2025 15:03	41602	CLEV_T1	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/19/2025 15:03	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:03	23203	HIRU_T2	0	2	2	0	0.3	0.3	0.16	0.16	0	0	0	0	0	0
3/19/2025 15:03	23202	HIRU_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/19/2025 15:03	23201	HIRU_T2	6	6	0	0.25	0.25	0	0	0	0	0	0	0	0	0
3/19/2025 15:04	63501	HEID_TBK1-2	62	77	15	0.25	0.27	0.02	0.27	0.18	1	1	0	900	900	0
3/19/2025 15:06	41305	FISH_T1	1	1	0	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/19/2025 15:06	41301	FISH_T1	5	4	-1	1.4	1.33	-0.07	0	0	0	0	0	0	0	0
3/19/2025 15:07	60504	NMAN_T2	2	3	1	0.4	0.57	0.17	0	0	0	0	0	0	0	0
3/19/2025 15:07	64702	LITI_T2	0	0	0	0	0	0	-1.38	-1.38	0	0	0	0	0	0
3/19/2025 15:07	60502	NMAN_T2	5	6	1	0.32	0.37	0.05	-2.06	-2.37	0	0	0	0	0	0
3/19/2025 15:07	60501	NMAN_T2	273	284	11	0.36	0.4	0.04	0	0	0	0	0	0	0	0
3/19/2025 15:07	44701	MUNC_T2	0	0	0	0	0	0	-1.17	-1.26	0	0	0	0	0	0
3/19/2025 15:07	44703	MUNC_T2	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
3/19/2025 15:09	44901	SCOT_T2	79	1	-78	0.22	0.1	-0.12	0.3	0.28	0	0	0	0	0	0
3/19/2025 15:09	44902	SCOT_T2	707	179	-528	0.36	0.24	-0.12	0	0	0	0	0	0	0	0
3/19/2025 15:10	17805	GILB_T2	5	7	2	0.58	0.4	-0.18	-0.19	-0.18	0	0	0	0	0	0
3/19/2025 15:10	17804	GILB_T2	8	9	1	0.54	0.59	0.05	0	0	0	0	0	0	0	0
3/19/2025 15:10	17803	GILB_T2	2	1	-1	0.25	0.3	0.05	0	0	0	0	0	0	0	0
3/19/2025 15:10	56504	ROCK_T2	0	0	0	0	0	0	-0.3	-0.26	0	0	0	0	0	0
3/19/2025 15:10	56501	ROCK_T2	4	4	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
3/19/2025 15:11	51301	WIND_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 15:11	60502	NMAN_T2	5	6	1	0.32	0.37	0.05	-1.03	-1.19	0	0	0	0	0	0
3/19/2025 15:11	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:11	42701	AUGU_T1	1	1	0	1.8	1.4	-0.4	0	0	0	0	0	0	0	0
3/19/2025 15:11	60504	NMAN_T2	2	3	1	0.4	0.57	0.17	0	0	0	0	0	0	0	0
3/19/2025 15:11	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:11	60501	NMAN_T2	273	284	11	0.36	0.4	0.04	0	0	0	0	0	0	0	0
3/19/2025 15:11	51305	WIND_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 15:12	51305	WIND_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 15:12	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:12	42701	AUGU_T1	1	1	0	1.8	1.4	-0.4	0	0	2	2	0	1800	1800	0
3/19/2025 15:12	51301	WIND_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 15:12	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:13	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:13	42701	AUGU_T1	1	1	0	1.8	1.4	-0.4	0	0	2	2	0	1800	1800	0
3/19/2025 15:14	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:14	42701	AUGU_T1	1	1	0	1.8	1.4	-0.4	0	0	0	0	0	0	0	0
3/19/2025 15:14	51305	WIND_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 15:14	51301	WIND_T1	2	0	-2	0.1	0	-0.1	0.25	0.25	0	0	0	0	0	0
3/19/2025 15:14	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:15	51304	WIND_T2	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
3/19/2025 15:15	42701	AUGU_T1	1	1	0	1.4	1.4	0	0	0	2	2	0	1800	1800	0
3/19/2025 15:16	42701	AUGU_T1	1	1	0	1.4	1.4	0	0	0	4	4	0	3600	3600	0
3/19/2025 15:16	41301	FISH_T1	4	2	-2	1.33	2.25	0.92	-0.34	-0.37	0	0	0	0	0	0
3/19/2025 15:16	41305	FISH_T1	1	0	-1	4.2	0	-4.2	0	0	0	0	0	0	0	0
3/19/2025 15:18	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:18	64204	KINZ_T1	70	70	0	1.81	1.98	0.17	0	0	0	0	0	0	0	0
3/19/2025 15:18	64202	KINZ_T1	3	3	0	0.9	0.73	-0.17	0	0	0	0	0	0	0	0
3/19/2025 15:19	41305	FISH_T1	1	0	-1	4.2	0	-4.2	0	0	0	0	0	0	0	0
3/19/2025 15:19	23201	HIRU_T2	6	5	-1	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
3/19/2025 15:19	23203	HIRU_T2	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/19/2025 15:19	41301	FISH_T1	4	2	-2	1.33	2.25	0.92	0	0	0	0	0	0	0	0
3/19/2025 15:19	23202	HIRU_T2	2	4	2	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/19/2025 15:20	58701	ROSE_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
3/19/2025 15:20	58702	ROSE_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 15:20	58706	ROSE_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 15:20	58705	ROSE_T2	5	5	0	3.16	3.44	0.28	0	0	0	0	0	0	0	0
3/19/2025 15:21	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:21	47103	MARL_T2	0	0	0	0	0	0	-0.53	-0.62	0	0	0	0	0	0
3/19/2025 15:22	52402	GRPA_T2	17	70	53	0.61	0.41	-0.2	0	0	0	0	0	0	0	0
3/19/2025 15:22	23202	HIRU_T2	2	4	2	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/19/2025 15:22	52404	GRPA_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/19/2025 15:22	23201	HIRU_T2	6	5	-1	0.25	0.24	-0.01	0	0	0	0	0	0	0	0
3/19/2025 15:22	23203	HIRU_T2	2	1	-1	0.3	0.1	-0.2	0.06	-0.07	0	0	0	0	0	0
3/19/2025 15:22	52401	GRPA_T2	7	5	-2	0.49	0.26	-0.23	0	0	0	0	0	0	0	0
3/19/2025 15:22	52403	GRPA_T2	107	22	-85	0.52	0.47	-0.05	0	0	0	0	0	0	0	0
3/19/2025 15:23	66505	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 15:23	66501	SMAN_T2	2	2	0	0.85	0.5	-0.35	0	0	0	0	0	0	0	0
3/19/2025 15:23	66503	SMAN_T2	2	1	-1	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
3/19/2025 15:23	66502	SMAN_T2	18	14	-4	0.44	0.35	-0.09	0	0	0	0	0	0	0	0
3/19/2025 15:23	66504	SMAN_T2	6	4	-2	0.33	0.23	-0.1	0	0	0	0	0	0	0	0
3/19/2025 15:37	43202	MVIL_T2	54	68	14	0.27	0.42	0.15	-0.69	-0.7	0	0	0	0	0	0
3/19/2025 15:39	59202	THOM_T1	124	195	71	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
3/19/2025 15:39	66902	SHIL_T2	4	1	-3	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/19/2025 15:39	59201	THOM_T1	11	16	5	0.22	0.22	0	0	0	0	0	0	0	0	0
3/19/2025 15:39	66901	SHIL_T2	6	1	-5	0.4	0.3	-0.1	-0.48	-0.49	0	0	0	0	0	0
3/19/2025 15:39	66903	SHIL_T2	3	1	-2	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/19/2025 15:40	59402	RFLD_T2	10	10	0	0.22	0.25	0.03	0	0	0	0	0	0	0	0
3/19/2025 15:42	66903	SHIL_T2	3	1	-2	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/19/2025 15:42	59201	THOM_T1	11	16	5	0.22	0.22	0	0	0	0	0	0	0	0	0
3/19/2025 15:42	44302	BEAV_T2	11	4	-7	0.5	0.28	-0.22	0.27	0.28	0	0	0	0	0	0
3/19/2025 15:42	59202	THOM_T1	124	195	71	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
3/19/2025 15:42	66901	SHIL_T2	6	1	-5	0.4	0.3	-0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 15:42	66902	SHIL_T2	4	1	-3	0.4	0.3	-0.1	-1.06	-1.05	0	0	0	0	0	0
3/19/2025 15:43	59201	THOM_T1	11	16	5	0.22	0.22	0	0	0	0	0	0	0	0	0
3/19/2025 15:43	66901	SHIL_T2	6	1	-5	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/19/2025 15:43	16103	BING_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
3/19/2025 15:43	59202	THOM_T1	124	195	71	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
3/19/2025 15:43	66902	SHIL_T2	4	1	-3	0.4	0.3	-0.1	-1.06	-1.05	0	0	0	0	0	0
3/19/2025 15:43	16102	BING_T2	0	6	6	0	0.53	0.53	0	0	0	0	0	0	0	0
3/19/2025 15:43	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:43	66903	SHIL_T2	3	1	-2	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/19/2025 15:43	44302	BEAV_T2	11	4	-7	0.5	0.28	-0.22	0	0	0	0	0	0	0	0
3/19/2025 15:44	59202	THOM_T1	124	195	71	0.22	0.18	-0.04	0	0	0	0	0	0	0	0
3/19/2025 15:44	57005	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 15:44	57004	WHHI_T2	0	0	0	0	0	0	-0.64	-0.69	0	0	0	0	0	0
3/19/2025 15:44	57002	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 15:44	57006	WHHI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 15:44	59201	THOM_T1	11	16	5	0.22	0.22	0	0	0	0	0	0	0	0	0
3/19/2025 15:45	57006	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 15:45	57002	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 15:45	57004	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:45	57005	WHHI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 15:45	59201	THOM_T1	16	14	-2	0.22	0.17	-0.05	0	0	0	0	0	0	0	0
3/19/2025 15:45	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:45	59202	THOM_T1	182	130	-52	0.18	0.17	-0.01	0	0	0	0	0	0	0	0
3/19/2025 15:45	44302	BEAV_T2	4	5	1	0.28	0.36	0.08	0.27	0.28	0	0	0	0	0	0
3/19/2025 15:46	16102	BING_T2	0	6	6	0	0.53	0.53	0	0	0	0	0	0	0	0
3/19/2025 15:46	62101	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:46	62102	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 15:46	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:46	62105	ELAN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/19/2025 15:46	44302	BEAV_T2	4	5	1	0.28	0.36	0.08	0.27	0.28	0	0	0	0	0	0
3/19/2025 15:46	16103	BING_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
3/19/2025 15:46	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:46	62106	ELAN_T1	0	2	2	0	0.35	0.35	0.39	0.36	0	0	0	0	0	0
3/19/2025 15:47	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:47	62106	ELAN_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/19/2025 15:47	62102	ELAN_T1	0	2	2	0	0.1	0.1	0.4	0.55	0	0	0	0	0	0
3/19/2025 15:47	62101	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:47	62105	ELAN_T1	0	2	2	0	0.15	0.15	0.28	0.32	0	0	0	0	0	0
3/19/2025 15:47	44302	BEAV_T2	4	5	1	0.28	0.36	0.08	0.27	0.28	0	0	0	0	0	0
3/19/2025 15:47	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:48	40101	HUNT_T2	4	4	0	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/19/2025 15:48	62105	ELAN_T1	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/19/2025 15:48	62106	ELAN_T1	0	2	2	0	0.35	0.35	0.39	0.36	0	0	0	0	0	0
3/19/2025 15:48	62102	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 15:48	44301	BEAV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:48	44302	BEAV_T2	4	5	1	0.28	0.36	0.08	0.27	0.28	0	0	0	0	0	0
3/19/2025 15:48	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:48	62101	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:49	62104	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:49	40101	HUNT_T2	4	4	0	0.2	0.23	0.03	-1.75	-1.77	0	0	0	0	0	0
3/19/2025 15:49	62105	ELAN_T1	0	2	2	0	0.15	0.15	0.28	0.32	0	0	0	0	0	0
3/19/2025 15:49	62106	ELAN_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/19/2025 15:49	62101	ELAN_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 15:49	62102	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 15:50	46506	LOHA_T1	3	3	0	5.13	4.43	-0.7	0	0	0	0	0	0	0	0
3/19/2025 15:50	46504	LOHA_T1	4	1	-3	0.55	0.2	-0.35	0	0	0	0	0	0	0	0
3/19/2025 15:50	46502	LOHA_T1	0	0	0	0	0	0	-0.08	-0.1	0	0	0	0	0	0
3/19/2025 15:50	40101	HUNT_T2	4	4	0	0.2	0.23	0.03	-3.5	-3.54	0	0	0	0	0	0
3/19/2025 15:52	43202	MVIL_T2	67	62	-5	0.41	0.43	0.02	0	0	0	0	0	0	0	0
3/19/2025 15:52	43201	MVIL_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
3/19/2025 15:53	66501	SMAN_T2	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/19/2025 15:53	66502	SMAN_T2	13	15	2	0.22	0.34	0.12	0.05	0.09	0	0	0	0	0	0
3/19/2025 15:53	66503	SMAN_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
3/19/2025 15:53	66504	SMAN_T2	2	6	4	0.15	0.32	0.17	0	0	0	0	0	0	0	0
3/19/2025 15:53	66505	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 15:54	66501	SMAN_T2	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/19/2025 15:54	66504	SMAN_T2	2	6	4	0.15	0.32	0.17	-0.49	-0.36	0	0	0	0	0	0
3/19/2025 15:54	66503	SMAN_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
3/19/2025 15:54	66505	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 15:54	58202	NEWV_T1	4	8	4	0.45	0.58	0.13	0.16	0.11	0	0	0	0	0	0
3/19/2025 15:54	66502	SMAN_T2	13	15	2	0.22	0.34	0.12	0	0	0	0	0	0	0	0
3/19/2025 15:55	66505	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 15:55	66502	SMAN_T2	13	15	2	0.22	0.34	0.12	0.05	0.09	0	0	0	0	0	0
3/19/2025 15:55	66504	SMAN_T2	2	6	4	0.15	0.32	0.17	0	0	0	0	0	0	0	0
3/19/2025 15:55	66503	SMAN_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
3/19/2025 15:55	66501	SMAN_T2	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/19/2025 15:56	66505	SMAN_T2	2	0	-2	0.1	0	-0.1	0.64	0.5	2	2	0	1800	1800	0
3/19/2025 15:56	66504	SMAN_T2	2	6	4	0.15	0.32	0.17	0	0	0	0	0	0	0	0
3/19/2025 15:56	66503	SMAN_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
3/19/2025 15:56	66501	SMAN_T2	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/19/2025 15:56	66502	SMAN_T2	13	15	2	0.22	0.34	0.12	0	0	0	0	0	0	0	0
3/19/2025 15:57	46001	BERW_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
3/19/2025 15:58	66503	SMAN_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
3/19/2025 15:58	66502	SMAN_T2	13	15	2	0.22	0.34	0.12	0.1	0.18	0	0	0	0	0	0
3/19/2025 15:58	66504	SMAN_T2	2	6	4	0.15	0.32	0.17	-0.49	-0.36	0	0	0	0	0	0
3/19/2025 15:58	66505	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 15:58	66501	SMAN_T2	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/19/2025 15:59	66505	SMAN_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 15:59	42501	ALTA_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
3/19/2025 15:59	66503	SMAN_T2	1	2	1	0.1	0.6	0.5	0	0	0	0	0	0	0	0
3/19/2025 15:59	66501	SMAN_T2	2	2	0	0.3	0.6	0.3	0	0	0	0	0	0	0	0
3/19/2025 15:59	66504	SMAN_T2	2	6	4	0.15	0.32	0.17	-0.49	-0.36	0	0	0	0	0	0
3/19/2025 15:59	66502	SMAN_T2	13	15	2	0.22	0.34	0.12	0	0	0	0	0	0	0	0
3/19/2025 16:01	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 16:01	42501	ALTA_T2	0	0	0	0	0	0	0.59	0.6	0	0	0	0	0	0
3/19/2025 16:01	46001	BERW_T1	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
3/19/2025 16:02	50623	CCTY_T2	6	6	0	5.43	5.4	-0.03	0	0	0	0	0	0	0	0
3/19/2025 16:02	50624	CCTY_T2	2	2	0	6.15	6.2	0.05	0	0	0	0	0	0	0	0
3/19/2025 16:02	50625	CCTY_T2	7	7	0	2.96	2.9	-0.06	0	0	0	0	0	0	0	0
3/19/2025 16:02	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 16:03	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 16:04	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 16:08	58401	MORO_T1	0	0	0	0	0	0	-0.97	-0.91	1	1	0	600	600	0
3/19/2025 16:09	58401	MORO_T1	0	0	0	0	0	0	-0.97	-0.91	1	1	0	600	600	0
3/19/2025 16:19	42903	MIDD_T2	2	2	0	0.1	0.55	0.45	0	0	0	0	0	0	0	0
3/19/2025 16:19	42902	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 16:19	44502	HAMI_T2	1	1	0	3.6	3.6	0	0.02	0.02	0	0	0	0	0	0
3/19/2025 16:20	42903	MIDD_T2	2	2	0	0.1	0.55	0.45	1.13	0.85	0	0	0	0	0	0
3/19/2025 16:20	59301	MCAL_T1	202	451	249	0.74	0.51	-0.23	-2.16	-2.32	0	0	0	0	0	0
3/19/2025 16:20	59302	MCAL_T1	6	8	2	0.52	0.6	0.08	0	0	0	0	0	0	0	0
3/19/2025 16:20	42902	MIDD_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 16:21	59302	MCAL_T1	6	8	2	0.52	0.6	0.08	0	0	0	0	0	0	0	0
3/19/2025 16:21	59301	MCAL_T1	202	451	249	0.74	0.51	-0.23	-1.08	-1.16	0	0	0	0	0	0
3/19/2025 16:22	59302	MCAL_T1	6	8	2	0.52	0.6	0.08	0	0	0	0	0	0	0	0
3/19/2025 16:22	59301	MCAL_T1	202	451	249	0.74	0.51	-0.23	-2.32	-2.56	0	0	0	0	0	0
3/19/2025 16:23	59302	MCAL_T1	6	8	2	0.52	0.6	0.08	0	0	0	0	0	0	0	0
3/19/2025 16:23	59301	MCAL_T1	202	451	249	0.74	0.51	-0.23	0	0	0	0	0	0	0	0
3/19/2025 16:23	43202	MVIL_T2	62	78	16	0.42	0.53	0.11	-0.69	-0.75	0	0	0	0	0	0
3/19/2025 16:24	43202	MVIL_T2	62	78	16	0.42	0.53	0.11	-0.69	-0.75	0	0	0	0	0	0
3/19/2025 16:26	67901	WNHO_T2	1	1	0	0.1	0.2	0.1	0.01	-0.31	1	1	0	900	900	0
3/19/2025 16:26	67401	WAKE_T2	94	58	-36	0.29	0.23	-0.06	-1.11	-1.16	0	0	0	0	0	0
3/19/2025 16:26	67402	WAKE_T2	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/19/2025 16:27	44302	BEAV_T2	5	1	-4	0.36	0.8	0.44	0	0	0	0	0	0	0	0
3/19/2025 16:27	44301	BEAV_T2	1	0	-1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 16:30	59301	MCAL_T1	447	202	-245	0.51	0.58	0.07	-1.16	-1.28	0	0	0	0	0	0
3/19/2025 16:30	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 16:30	67901	WNHO_T2	1	0	-1	0.2	0	-0.2	0.01	-0.31	1	1	0	900	900	0
3/19/2025 16:30	59302	MCAL_T1	8	6	-2	0.6	0.57	-0.03	0	0	0	0	0	0	0	0
3/19/2025 16:30	44302	BEAV_T2	1	0	-1	0.8	0	-0.8	0	0	0	0	0	0	0	0
3/19/2025 16:30	44301	BEAV_T2	0	0	0	0	0	0	-0.04	-0.12	1	1	0	600	600	0
3/19/2025 16:32	44302	BEAV_T2	1	0	-1	0.8	0	-0.8	0.27	0.24	0	0	0	0	0	0
3/19/2025 16:32	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 16:37	53901	HALI_T2	1	1	0	0.8	0.4	-0.4	0.04	0.02	0	0	0	0	0	0
3/19/2025 16:37	53902	HALI_T2	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
3/19/2025 16:37	53903	HALI_T2	2	2	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/19/2025 16:42	67602	WARW_T2	0	0	0	0	0	0	1.38	1.39	1	1	0	300	300	0
3/19/2025 16:42	16301	ALPA_T1	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
3/19/2025 16:45	16301	ALPA_T1	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
3/19/2025 16:46	20603	GRWO_T2	158	157	-1	0.42	0.42	0	0	0	0	0	0	0	0	0
3/19/2025 16:46	16301	ALPA_T1	0	0	0	0	0	0	-0.15	-0.19	0	0	0	0	0	0
3/19/2025 16:46	41301	FISH_T1	2	2	0	1.8	1.25	-0.55	-0.37	-0.34	0	0	0	0	0	0
3/19/2025 16:46	20602	GRWO_T2	6	14	8	0.1	0.11	0.01	0	0	0	0	0	0	0	0
3/19/2025 16:46	20601	GRWO_T2	0	0	0	0	0	0	0.83	0.81	0	0	0	0	0	0
3/19/2025 16:47	20603	GRWO_T2	158	157	-1	0.42	0.42	0	0.32	0.35	0	0	0	0	0	0
3/19/2025 16:47	20602	GRWO_T2	6	14	8	0.1	0.11	0.01	0	0	0	0	0	0	0	0
3/19/2025 16:48	20601	GRWO_T2	0	0	0	0	0	0	0.83	0.81	0	0	0	0	0	0
3/19/2025 16:48	20603	GRWO_T2	158	157	-1	0.42	0.42	0	0	0	0	0	0	0	0	0
3/19/2025 16:48	20602	GRWO_T2	6	14	8	0.1	0.11	0.01	0	0	0	0	0	0	0	0
3/19/2025 16:48	14605	SWHI_T1	0	0	0	0	0	0	1.07	1.06	1	1	0	1200	1200	0
3/19/2025 16:52	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 16:52	44601	SALE_T2	0	1	1	0	0.1	0.1	-0.08	-0.11	0	0	0	0	0	0
3/19/2025 16:59	67502	WEWI_T2	406	522	116	0.29	0.31	0.02	0	0	0	0	0	0	0	0
3/19/2025 16:59	67503	WEWI_T2	5	72	67	0.14	0.14	0	0	0	0	0	0	0	0	0
3/19/2025 16:59	10602	BLGL_T2	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
3/19/2025 17:01	61301	EARL_T1	0	0	0	0	0	0	0.31	0.27	0	0	0	0	0	0
3/19/2025 17:01	61304	EARL_T1	0	0	0	0	0	0	-3.07	-1.14	3	0	-3	1800	0	-1800
3/19/2025 17:02	61304	EARL_T1	0	0	0	0	0	0	-1.02	-0.38	1	0	-1	600	0	-600
3/19/2025 17:03	64202	KINZ_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
3/19/2025 17:03	64201	KINZ_T1	4	1	-3	0.23	0.9	0.67	-0.15	-0.64	3	3	0	1500	1500	0
3/19/2025 17:03	64204	KINZ_T1	70	62	-8	1.55	0.4	-1.15	0	0	0	0	0	0	0	0
3/19/2025 17:04	64201	KINZ_T1	4	1	-3	0.23	0.9	0.67	-0.15	-0.64	3	3	0	1500	1500	0
3/19/2025 17:04	64204	KINZ_T1	70	62	-8	1.55	0.4	-1.15	0	0	0	0	0	0	0	0
3/19/2025 17:04	64202	KINZ_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 17:04	64203	KINZ_T1	0	0	0	0	0	0	0.3	0.18	1	0	-1	600	0	-600
3/19/2025 17:06	64204	KINZ_T1	70	62	-8	1.55	0.4	-1.15	0	0	0	0	0	0	0	0
3/19/2025 17:06	64201	KINZ_T1	4	1	-3	0.23	0.9	0.67	-1.28	-1.3	6	6	0	3000	3000	0
3/19/2025 17:06	64202	KINZ_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
3/19/2025 17:07	64203	KINZ_T1	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
3/19/2025 17:07	64201	KINZ_T1	4	1	-3	0.23	0.9	0.67	0	0	0	0	0	0	0	0
3/19/2025 17:07	64202	KINZ_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
3/19/2025 17:07	64204	KINZ_T1	70	62	-8	1.55	0.4	-1.15	0	0	0	0	0	0	0	0
3/19/2025 17:08	64202	KINZ_T1	2	0	-2	0.35	0	-0.35	0	0	0	0	0	0	0	0
3/19/2025 17:08	64204	KINZ_T1	70	62	-8	1.55	0.4	-1.15	0	0	0	0	0	0	0	0
3/19/2025 17:08	64203	KINZ_T1	0	0	0	0	0	0	0.36	0.34	0	0	0	0	0	0
3/19/2025 17:08	64201	KINZ_T1	4	1	-3	0.23	0.9	0.67	0	0	0	0	0	0	0	0
3/19/2025 17:13	67303	WYOM_T2	0	0	0	0	0	0	-0.44	0.56	0	0	0	0	0	0
3/19/2025 17:26	55105	WERT_T1	0	0	0	0	0	0	-0.77	-0.76	1	1	0	900	900	0
3/19/2025 17:28	46001	BERW_T1	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
3/19/2025 17:37	65901	SAKR_T2	1	1	0	10	10	0	-1.32	-1.3	1	1	0	900	900	0
3/19/2025 17:40	45303	WBER_T2	7	8	1	0.3	0.51	0.21	-0.22	-0.17	0	0	0	0	0	0
3/19/2025 17:42	55105	WERT_T1	0	0	0	0	0	0	-0.76	-0.8	1	1	0	900	900	0
3/19/2025 17:44	11201	ELHE_T2	0	0	0	0	0	0	-0.12	-0.09	2	2	0	2400	2400	0
3/19/2025 17:44	45303	WBER_T2	7	8	1	0.3	0.51	0.21	-0.22	-0.17	0	0	0	0	0	0
3/19/2025 17:45	40201	BEGA_T2	4	5	1	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
3/19/2025 17:45	45303	WBER_T2	9	172	163	1.27	1.5	0.23	-0.22	-0.17	0	0	0	0	0	0
3/19/2025 17:45	11201	ELHE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 17:46	40201	BEGA_T2	4	5	1	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
3/19/2025 17:48	11201	ELHE_T2	0	0	0	0	0	0	-0.12	-0.09	2	2	0	2400	2400	0
3/19/2025 17:55	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 17:55	47403	PENS_T1	1	1	0	2.3	2.3	0	0	0	0	0	0	0	0	0
3/19/2025 17:58	16301	ALPA_T1	0	0	0	0	0	0	-0.11	-0.11	0	0	0	0	0	0
3/19/2025 17:59	60803	BUCK_T1	10	10	0	0.17	0.15	-0.02	-0.57	-0.56	1	1	0	600	600	0
3/19/2025 17:59	60801	BUCK_T1	27	35	8	0.19	0.2	0.01	0	0	0	0	0	0	0	0
3/19/2025 17:59	16301	ALPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 18:00	60803	BUCK_T1	9	11	2	0.16	0.15	-0.01	-1.71	-1.68	3	3	0	1800	1800	0
3/19/2025 18:00	60801	BUCK_T1	34	37	3	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
3/19/2025 18:00	67303	WYOM_T2	0	0	0	0	0	0	0.43	0.47	0	0	0	0	0	0
3/19/2025 18:01	60801	BUCK_T1	34	37	3	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
3/19/2025 18:01	60803	BUCK_T1	9	11	2	0.16	0.15	-0.01	-0.57	-0.56	1	1	0	600	600	0
3/19/2025 18:01	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
3/19/2025 18:02	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
3/19/2025 18:04	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
3/19/2025 18:05	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1.03	0	0	0	0	0	0
3/19/2025 18:06	52101	MEIS_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/19/2025 18:07	47101	MARL_T1	0	0	0	0	0	0	-1.42	-1.4	0	0	0	0	0	0
3/19/2025 18:09	47101	MARL_T1	0	0	0	0	0	0	-1.42	-1.4	0	0	0	0	0	0
3/19/2025 18:10	14802	TREI_T2	9	12	3	0.19	0.23	0.04	0	0	0	0	0	0	0	0
3/19/2025 18:10	14801	TREI_T2	13	23	10	0.15	0.15	0	0	0	0	0	0	0	0	0
3/19/2025 18:14	16101	BING_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
3/19/2025 18:16	10101	ALLE_T3	1	1	0	5.7	5.8	0.1	0	0	0	0	0	0	0	0
3/19/2025 18:16	41503	FAIR_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
3/19/2025 18:16	41502	FAIR_T2	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
3/19/2025 18:17	41501	FAIR_T2	0	0	0	0	0	0	-1.1	-1.11	1	1	0	600	600	0
3/19/2025 18:17	41502	FAIR_T2	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
3/19/2025 18:17	41503	FAIR_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
3/19/2025 18:19	41503	FAIR_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
3/19/2025 18:19	41501	FAIR_T2	0	0	0	0	0	0	-1.1	-1.11	1	1	0	600	600	0
3/19/2025 18:19	41504	FAIR_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
3/19/2025 18:22	57401	SPAN_T1	2	2	0	1.5	1.45	-0.05	-0.07	0.23	0	0	0	0	0	0
3/19/2025 18:22	16006	DORN_T2	0	0	0	0	0	0	0.65	0.61	0	0	0	0	0	0
3/19/2025 18:22	42601	TUSC_T1	0	0	0	0	0	0	0.85	0.87	1	1	0	600	600	0
3/19/2025 18:26	42503	ALTA_T2	0	0	0	0	0	0	0.36	0.35	0	0	0	0	0	0
3/19/2025 18:30	51108	CARL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/19/2025 18:30	51101	CARL_T1	1	1	0	5	5	0	0	0	0	0	0	0	0	0
3/19/2025 18:30	51109	CARL_T1	0	0	0	0	0	0	-1.11	-1.11	1	1	0	1200	1200	0
3/19/2025 18:30	51107	CARL_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/19/2025 18:30	51102	CARL_T1	55	48	-7	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
3/19/2025 18:31	51107	CARL_T1	2	1	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/19/2025 18:31	51101	CARL_T1	1	1	0	5	5	0	0	0	0	0	0	0	0	0
3/19/2025 18:31	51102	CARL_T1	55	48	-7	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
3/19/2025 18:31	51108	CARL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/19/2025 18:31	43401	BENT_T1	5	0	-5	0.96	0	-0.96	0	0	0	0	0	0	0	0
3/19/2025 18:31	51109	CARL_T1	0	0	0	0	0	0	-1.11	-1.11	1	1	0	1200	1200	0
3/19/2025 18:31	43402	BENT_T1	0	0	0	0	0	0	-1.02	-1.04	1	1	0	900	900	0
3/19/2025 19:29	66901	SHIL_T2	0	0	0	0	0	0	-0.67	-0.68	0	0	0	0	0	0
3/19/2025 19:37	51109	CARL_T1	0	0	0	0	0	0	-1.08	-1.1	1	1	0	1200	1200	0
3/19/2025 19:37	51102	CARL_T1	4	6	2	0.15	0.12	-0.03	0	0	0	0	0	0	0	0
3/19/2025 19:37	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 19:37	51101	CARL_T1	1	1	0	5.2	5.2	0	0	0	0	0	0	0	0	0
3/19/2025 19:37	51107	CARL_T1	17	23	6	0.21	0.25	0.04	0	0	0	0	0	0	0	0
3/19/2025 20:12	28102	TWLA_T2	20	18	-2	0.39	0.39	0	0.19	0.19	0	0	0	0	0	0
3/19/2025 20:19	15601	NSTR_T2	9	0	-9	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 20:25	52101	MEIS_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 20:25	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/19/2025 20:27	15601	NSTR_T2	9	0	-9	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 20:29	15601	NSTR_T2	9	0	-9	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 20:31	48303	ORWI_T2	0	0	0	0	0	0	0.59	0.54	0	0	0	0	0	0
3/19/2025 20:31	48302	ORWI_T2	2	10	8	9	2.2	-6.8	0	0	0	0	0	0	0	0
3/19/2025 20:31	53501	EVIL_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
3/19/2025 20:32	53501	EVIL_T2	1	2	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
3/19/2025 20:33	53501	EVIL_T2	1	2	1	0.5	0.45	-0.05	-0.46	-0.48	0	0	0	0	0	0
3/19/2025 20:37	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 20:37	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
3/19/2025 20:37	53901	HALI_T2	0	2	2	0	0.3	0.3	0.21	0.18	0	0	0	0	0	0
3/19/2025 20:37	53903	HALI_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
3/19/2025 20:37	59402	RFLD_T2	1	8	7	0.7	0.24	-0.46	-0.42	-0.44	0	0	0	0	0	0
3/19/2025 20:38	53901	HALI_T2	0	2	2	0	0.3	0.3	0.07	0.06	0	0	0	0	0	0
3/19/2025 20:38	53902	HALI_T2	1	1	0	5.3	5.4	0.1	0	0	0	0	0	0	0	0
3/19/2025 20:38	53903	HALI_T2	2	2	0	1	1	0	0	0	0	0	0	0	0	0
3/19/2025 20:40	65702	RVIL_T2	0	0	0	0	0	0	-0.99	-1.03	0	0	0	0	0	0
3/19/2025 20:43	65702	RVIL_T2	0	0	0	0	0	0	-0.99	-1.03	0	0	0	0	0	0
3/19/2025 20:44	65702	RVIL_T2	0	0	0	0	0	0	-1.98	-2.06	0	0	0	0	0	0
3/19/2025 20:47	65702	RVIL_T2	0	0	0	0	0	0	-0.99	-1.03	0	0	0	0	0	0
3/19/2025 20:47	55101	WERT_T1	0	0	0	0	0	0	-1.62	-1.05	2	1	-1	1500	900	-600
3/19/2025 20:48	65702	RVIL_T2	0	0	0	0	0	0	-0.99	-1.03	0	0	0	0	0	0
3/19/2025 20:50	65702	RVIL_T2	0	0	0	0	0	0	-0.99	-1.03	0	0	0	0	0	0
3/19/2025 20:51	61505	EPET_T1	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
3/19/2025 20:51	61502	EPET_T1	0	66	66	0	0.19	0.19	0	0	0	0	0	0	0	0
3/19/2025 20:52	57403	SPAN_T1	0	1	1	0	0	0	-0.09	-0.07	0	0	0	0	0	0
3/19/2025 20:52	57401	SPAN_T1	2	2	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
3/19/2025 20:53	65003	NEFF_T2	0	0	0	0	0	0	-0.51	0.07	1	0	-1	600	0	-600
3/19/2025 20:53	45802	HEGI_T2	47	47	0	1.24	1.12	-0.12	0.67	0.83	0	0	0	0	0	0
3/19/2025 20:58	45802	HEGI_T2	47	47	0	1.24	1.12	-0.12	0.67	0.83	0	0	0	0	0	0
3/19/2025 20:59	48303	ORWI_T2	0	7	7	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 20:59	50701	SMEC_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
3/19/2025 20:59	48302	ORWI_T2	3	28	25	6.17	0.86	-5.31	-0.21	-0.19	0	0	0	0	0	0
3/19/2025 21:00	50701	SMEC_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
3/19/2025 21:00	62607	ENGL_T1	0	0	0	0	0	0	-1.17	-1.18	1	1	0	300	300	0
3/19/2025 21:01	50701	SMEC_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
3/19/2025 21:02	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:02	23202	HIRU_T2	0	0	0	0	0	0	0.09	0.08	0	0	0	0	0	0
3/19/2025 21:02	50701	SMEC_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
3/19/2025 21:02	17805	GILB_T2	0	0	0	0	0	0	-0.25	-0.27	0	0	0	0	0	0
3/19/2025 21:03	50701	SMEC_T1	0	0	0	0	0	0	0.24	0.22	0	0	0	0	0	0
3/19/2025 21:03	16006	DORN_T2	0	0	0	0	0	0	0.59	0.61	0	0	0	0	0	0
3/19/2025 21:03	17805	GILB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:04	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:04	17802	GILB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:05	41503	FAIR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:05	14403	SSLA_T1	3	12	9	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
3/19/2025 21:05	10602	BLGL_T2	0	0	0	0	0	0	-0.08	-0.08	0	0	0	0	0	0
3/19/2025 21:05	23202	HIRU_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:05	14401	SSLA_T1	8	28	20	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
3/19/2025 21:05	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:05	14404	SSLA_T1	27	82	55	0.11	0.15	0.04	0	0	0	0	0	0	0	0
3/19/2025 21:05	15703	TANN_T2	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:05	15702	TANN_T2	0	4	4	0	0.1	0.1	-0.51	-0.54	0	0	0	0	0	0
3/19/2025 21:05	14402	SSLA_T1	171	280	109	0.18	0.29	0.11	0	0	0	0	0	0	0	0
3/19/2025 21:05	41502	FAIR_T2	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0
3/19/2025 21:06	66903	SHIL_T2	0	0	0	0	0	0	-1.3	-1.3	0	0	0	0	0	0
3/19/2025 21:06	24501	GOUL_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
3/19/2025 21:07	40502	CRES_T2	1	7	6	0.1	0.16	0.06	0.16	0.16	0	0	0	0	0	0
3/19/2025 21:07	14802	TREI_T2	5	13	8	0.24	0.24	0	0	0	0	0	0	0	0	0
3/19/2025 21:07	66902	SHIL_T2	0	0	0	0	0	0	-1.07	-1.06	0	0	0	0	0	0
3/19/2025 21:07	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:07	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:07	16006	DORN_T2	0	0	0	0	0	0	0.61	0.55	0	0	0	0	0	0
3/19/2025 21:07	59402	RFLD_T2	8	28	20	0.23	0.24	0.01	0	0	0	0	0	0	0	0
3/19/2025 21:07	15104	UPHA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:07	61701	ELIZ_T1	1	1	0	5.4	5.6	0.2	-0.01	-0.01	0	0	0	0	0	0
3/19/2025 21:07	67001	STHI_T2	406	549	143	0.27	0.35	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:07	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:07	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:07	15602	NSTR_T2	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0
3/19/2025 21:07	40501	CRES_T2	6	9	3	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
3/19/2025 21:07	46602	LACR_T1	0	2	2	0	0.1	0.1	-0.77	-0.72	0	0	0	0	0	0
3/19/2025 21:07	10504	CRAC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:07	23203	HIRU_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
3/19/2025 21:07	15601	NSTR_T2	3	3	0	0.47	0.57	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:07	15703	TANN_T2	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:07	14801	TREI_T2	24	72	48	0.17	0.2	0.03	0.28	0.29	0	0	0	0	0	0
3/19/2025 21:07	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:07	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:07	13902	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:07	17802	GILB_T1	0	0	0	0	0	0	0	-0.01	0	0	0	0	0	0
3/19/2025 21:07	67002	STHI_T2	68	266	198	0.19	0.19	0	0.49	0.48	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 21:07	15702	TANN_T2	0	4	4	0	0.1	0.1	-0.54	-0.55	0	0	0	0	0	0
3/19/2025 21:08	62607	ENGL_T1	0	0	0	0	0	0	-1.18	-1.16	1	1	0	300	300	0
3/19/2025 21:08	64201	KINZ_T1	1	1	0	0.2	0.8	0.6	0	0	0	0	0	0	0	0
3/19/2025 21:08	15603	NSTR_T2	0	0	0	0	0	0	-0.65	-0.65	0	0	0	0	0	0
3/19/2025 21:08	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:08	17401	FOHI_T1	0	0	0	0	0	0	-1.07	-1.03	0	0	0	0	0	0
3/19/2025 21:08	66902	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:08	67106	SPRI_T2	0	0	0	0	0	0	-1.36	-1.37	1	1	0	900	900	0
3/19/2025 21:08	64202	KINZ_T1	3	3	0	0.17	0.4	0.23	0	0	0	0	0	0	0	0
3/19/2025 21:08	23203	HIRU_T2	0	0	0	0	0	0	-0.07	-0.09	0	0	0	0	0	0
3/19/2025 21:08	21206	ECAR_T2	1	1	0	7.6	8.1	0.5	1.25	1.24	0	0	0	0	0	0
3/19/2025 21:08	67901	WNHO_T2	0	0	0	0	0	0	-0.63	-0.63	1	1	0	900	900	0
3/19/2025 21:08	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:08	22002	BOHE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:08	16006	DORN_T2	0	0	0	0	0	0	0.61	0.55	0	0	0	0	0	0
3/19/2025 21:08	67001	STHI_T2	406	549	143	0.27	0.35	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:08	61103	BERK_T5	0	3	3	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
3/19/2025 21:08	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:08	15101	UPHA_T1	0	0	0	0	0	0	0.5	0.47	0	0	0	0	0	0
3/19/2025 21:08	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/19/2025 21:08	23201	HIRU_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:08	15601	NSTR_T2	3	3	0	0.47	0.57	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:08	61102	BERK_T5	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:08	23901	EFMO_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
3/19/2025 21:08	67002	STHI_T2	68	266	198	0.19	0.19	0	0.49	0.48	0	0	0	0	0	0
3/19/2025 21:08	64204	KINZ_T1	1	1	0	0.9	1.5	0.6	0	0	0	0	0	0	0	0
3/19/2025 21:08	41301	FISH_T1	1	5	4	0.6	0.22	-0.38	-0.36	-0.37	0	0	0	0	0	0
3/19/2025 21:08	64203	KINZ_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/19/2025 21:08	14604	SWHI_T1	0	0	0	0	0	0	-0.04	-0.04	1	1	0	900	900	0
3/19/2025 21:08	40501	CRES_T2	6	9	3	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
3/19/2025 21:08	40502	CRES_T2	1	7	6	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/19/2025 21:08	61101	BERK_T5	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/19/2025 21:08	15404	WALL_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
3/19/2025 21:08	61304	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
3/19/2025 21:09	20603	GRWO_T2	71	134	63	0.35	0.37	0.02	0.33	0.29	0	0	0	0	0	0
3/19/2025 21:09	67401	WAKE_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
3/19/2025 21:09	67002	STHI_T2	68	266	198	0.19	0.19	0	0.49	0.48	0	0	0	0	0	0
3/19/2025 21:09	14601	SWHI_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
3/19/2025 21:09	10801	CHIH_T1	0	0	0	0	0	0	-1.75	-1.76	2	2	0	1500	1500	0
3/19/2025 21:09	67603	WARW_T1	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
3/19/2025 21:09	40503	CRES_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:09	67402	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:09	14401	SSLA_T1	8	28	20	0.21	0.18	-0.03	-0.66	-0.66	0	0	0	0	0	0
3/19/2025 21:09	40504	CRES_T1	27	92	65	0.31	0.27	-0.04	-0.6	-0.62	0	0	0	0	0	0
3/19/2025 21:09	11507	FREE_T2	5	2	-3	0.38	0.2	-0.18	1.63	1.69	0	0	0	0	0	0
3/19/2025 21:09	13904	SEID_T1	0	0	0	0	0	0	0.21	0.2	0	0	0	0	0	0
3/19/2025 21:09	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:09	20401	ASHF_T2	5	5	0	0.46	0.46	0	0	0	0	0	0	0	0	0
3/19/2025 21:09	61102	BERK_T5	1	1	0	0.2	0.3	0.1	0.03	0.02	1	1	0	300	300	0
3/19/2025 21:09	28805	LAKE_T1	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
3/19/2025 21:09	16302	ALPA_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
3/19/2025 21:09	61101	BERK_T5	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/19/2025 21:09	12701	MACU_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/19/2025 21:09	20602	GRWO_T2	3	28	25	0.1	0.14	0.04	0	0	0	0	0	0	0	0
3/19/2025 21:09	66902	SHIL_T2	0	0	0	0	0	0	-2.14	-2.12	0	0	0	0	0	0
3/19/2025 21:09	67605	WARW_T1	14	21	7	0.32	0.42	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:09	14403	SSLA_T1	3	12	9	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
3/19/2025 21:09	10903	COOP_T2	0	4	4	0	0.1	0.1	-0.54	-0.52	1	1	0	600	600	0
3/19/2025 21:09	14404	SSLA_T1	27	82	55	0.11	0.15	0.04	-0.16	-0.17	0	0	0	0	0	0
3/19/2025 21:09	67106	SPRI_T2	0	0	0	0	0	0	-1.36	-1.37	1	1	0	900	900	0
3/19/2025 21:09	44802	EDAN_T2	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
3/19/2025 21:09	14801	TREI_T2	24	72	48	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/19/2025 21:09	10101	ALLE_T3	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:09	10504	CRAC_T1	0	0	0	0	0	0	0.65	0.71	0	0	0	0	0	0
3/19/2025 21:09	17805	GILB_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
3/19/2025 21:09	45902	AUBU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
3/19/2025 21:09	14602	SWHI_T1	0	1	1	0	0.2	0.2	0.15	0.14	0	0	0	0	0	0
3/19/2025 21:09	14402	SSLA_T1	171	280	109	0.18	0.29	0.11	0	0	0	0	0	0	0	0
3/19/2025 21:09	43402	BENT_T1	0	0	0	0	0	0	-1.07	-1.07	1	1	0	900	900	0
3/19/2025 21:09	66901	SHIL_T2	0	0	0	0	0	0	-0.64	-0.69	0	0	0	0	0	0
3/19/2025 21:09	20403	ASHF_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/19/2025 21:09	61103	BERK_T5	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:09	40505	CRES_T1	5	66	61	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:09	14802	TREI_T2	5	13	8	0.24	0.24	0	0.29	0.27	0	0	0	0	0	0
3/19/2025 21:09	60201	ATGL_T2	73	203	130	0.22	0.3	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:09	13902	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:09	67001	STHI_T2	406	549	143	0.27	0.35	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:10	14601	SWHI_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
3/19/2025 21:10	41202	KENM_T2	1	1	0	0.2	0.4	0.2	0.36	0.33	0	0	0	0	0	0
3/19/2025 21:10	15702	TANN_T2	0	4	4	0	0.1	0.1	-0.54	-0.55	0	0	0	0	0	0
3/19/2025 21:10	14403	SSLA_T1	3	12	9	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
3/19/2025 21:10	40504	CRES_T1	27	92	65	0.31	0.27	-0.04	0	0	0	0	0	0	0	0
3/19/2025 21:10	14401	SSLA_T1	8	28	20	0.21	0.18	-0.03	-0.66	-0.66	0	0	0	0	0	0
3/19/2025 21:10	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:10	44802	EDAN_T2	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
3/19/2025 21:10	40501	CRES_T2	6	9	3	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
3/19/2025 21:10	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:10	40503	CRES_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:10	61101	BERK_T5	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/19/2025 21:10	14402	SSLA_T1	171	280	109	0.18	0.29	0.11	0	0	0	0	0	0	0	0
3/19/2025 21:10	17401	FOHI_T1	0	0	0	0	0	0	-1.07	-1.03	0	0	0	0	0	0
3/19/2025 21:10	66901	SHIL_T2	0	0	0	0	0	0	-0.64	-0.69	0	0	0	0	0	0
3/19/2025 21:10	27502	WEIS_T2	0	0	0	0	0	0	-0.86	-0.86	0	0	0	0	0	0
3/19/2025 21:10	44502	HAMI_T2	1	1	0	3.4	3.5	0.1	0.02	0.01	0	0	0	0	0	0
3/19/2025 21:10	61103	BERK_T5	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:10	64201	KINZ_T1	1	1	0	0.2	0.8	0.6	-0.64	-0.61	3	3	0	1500	1500	0
3/19/2025 21:10	40502	CRES_T2	1	7	6	0.1	0.16	0.06	0.16	0.16	0	0	0	0	0	0
3/19/2025 21:10	22601	KIMB_T1	0	0	0	0	0	0	0.21	0.22	0	0	0	0	0	0
3/19/2025 21:10	64204	KINZ_T1	1	1	0	0.9	1.5	0.6	0	0	0	0	0	0	0	0
3/19/2025 21:10	40505	CRES_T1	5	66	61	0.1	0.2	0.1	0.15	0.13	0	0	0	0	0	0
3/19/2025 21:10	47001	HUGH_T2	3	3	0	8.3	8.53	0.23	-0.83	-0.85	0	0	0	0	0	0
3/19/2025 21:10	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/19/2025 21:10	67001	STHI_T2	406	549	143	0.27	0.35	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:10	64202	KINZ_T1	3	3	0	0.17	0.4	0.23	0	0	0	0	0	0	0	0
3/19/2025 21:10	61102	BERK_T5	1	1	0	0.2	0.3	0.1	0.03	0.02	1	1	0	300	300	0
3/19/2025 21:10	41503	FAIR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:10	67002	STHI_T2	68	266	198	0.19	0.19	0	0.98	0.96	0	0	0	0	0	0
3/19/2025 21:10	10102	ALLE_T2	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:10	41501	FAIR_T2	0	0	0	0	0	0	-1.13	-1.14	1	1	0	600	600	0
3/19/2025 21:10	14502	SCHO_T1	0	0	0	0	0	0	0.19	0.14	0	0	0	0	0	0
3/19/2025 21:10	60201	ATGL_T2	73	203	130	0.22	0.3	0.08	-0.33	-0.41	0	0	0	0	0	0
3/19/2025 21:10	20401	ASHF_T2	5	5	0	0.46	0.46	0	0.33	0.27	0	0	0	0	0	0
3/19/2025 21:10	14404	SSLA_T1	27	82	55	0.11	0.15	0.04	0	0	0	0	0	0	0	0
3/19/2025 21:10	15703	TANN_T2	1	1	0	5.1	4.9	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:10	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:10	17805	GILB_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
3/19/2025 21:11	14801	TREI_T2	24	72	48	0.17	0.2	0.03	0.28	0.29	0	0	0	0	0	0
3/19/2025 21:11	14403	SSLA_T1	3	12	9	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
3/19/2025 21:11	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:11	16101	BING_T2	0	0	0	0	0	0	0.25	0.24	0	0	0	0	0	0
3/19/2025 21:11	47001	HUGH_T2	3	3	0	8.3	8.53	0.23	-0.83	-0.85	0	0	0	0	0	0
3/19/2025 21:11	63501	HEID_TBK1-2	2	25	23	0.5	0.22	-0.28	0.28	0.33	0	0	0	0	0	0
3/19/2025 21:11	42701	AUGU_T1	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
3/19/2025 21:11	44802	EDAN_T2	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
3/19/2025 21:11	65206	PRIN_T4	1	0	-1	6.4	0	-6.4	0	0	0	0	0	0	0	0
3/19/2025 21:11	14802	TREI_T2	5	13	8	0.24	0.24	0	0	0	0	0	0	0	0	0
3/19/2025 21:11	10903	COOP_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:11	13902	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:11	60101	COCA_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
3/19/2025 21:11	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:11	20601	GRWO_T2	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
3/19/2025 21:11	10101	ALLE_T3	1	1	0	6	5.8	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:11	60501	NMAN_T2	52	218	166	0.25	0.32	0.07	0	0	0	0	0	0	0	0
3/19/2025 21:11	16006	DORN_T2	0	0	0	0	0	0	0.61	0.55	0	0	0	0	0	0
3/19/2025 21:11	43801	SWIL_T1	2	2	0	3.2	3.25	0.05	0	0	0	0	0	0	0	0
3/19/2025 21:11	14404	SSLA_T1	27	82	55	0.11	0.15	0.04	0	0	0	0	0	0	0	0
3/19/2025 21:11	60502	NMAN_T2	0	0	0	0	0	0	-1.36	-1.4	0	0	0	0	0	0
3/19/2025 21:11	61103	BERK_T5	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:11	14402	SSLA_T1	171	280	109	0.18	0.29	0.11	0	0	0	0	0	0	0	0
3/19/2025 21:11	43802	SWIL_T1	0	0	0	0	0	0	-0.33	-0.33	1	1	0	600	600	0
3/19/2025 21:11	24202	PROV_T4	0	0	0	0	0	0	-0.79	-0.83	1	1	0	1200	1200	0
3/19/2025 21:11	11301	EMMA_T1	0	0	0	0	0	0	-0.97	-1.01	0	0	0	0	0	0
3/19/2025 21:11	16103	BING_T2	0	0	0	0	0	0	-0.54	-0.55	1	1	0	900	900	0
3/19/2025 21:11	20602	GRWO_T2	3	28	25	0.1	0.14	0.04	0	0	0	0	0	0	0	0
3/19/2025 21:11	10205	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:11	14401	SSLA_T1	8	28	20	0.21	0.18	-0.03	-0.66	-0.66	0	0	0	0	0	0
3/19/2025 21:11	61101	BERK_T5	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/19/2025 21:11	43202	MVIL_T2	60	89	29	0.77	0.78	0.01	-0.78	-0.77	0	0	0	0	0	0
3/19/2025 21:11	61102	BERK_T5	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:11	45501	DERR_T2	0	0	0	0	0	0	-0.14	-0.13	2	2	0	1800	1800	0
3/19/2025 21:11	41901	REED_T1	8	9	1	0.54	0.74	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:11	41902	REED_T1	0	0	0	0	0	0	1.03	1.06	0	0	0	0	0	0
3/19/2025 21:11	10502	CRAC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:11	65207	PRIN_T4	2	2	0	3.65	0.6	-3.05	0	0	0	0	0	0	0	0
3/19/2025 21:11	20603	GRWO_T2	71	134	63	0.35	0.37	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:12	46203	DANV_T2	0	16	16	0	0.15	0.15	0.06	0.06	0	0	0	0	0	0
3/19/2025 21:12	13903	SEID_T1	0	0	0	0	0	0	0.43	0.41	0	0	0	0	0	0
3/19/2025 21:12	67001	STHI_T2	406	549	143	0.27	0.35	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:12	11201	ELHE_T2	0	0	0	0	0	0	1.16	1.05	1	1	0	1200	1200	0
3/19/2025 21:12	46301	ROHR_T1	120	237	117	0.3	0.37	0.07	0.13	0.11	0	0	0	0	0	0
3/19/2025 21:12	44505	HAMI_T2	0	0	0	0	0	0	0.4	0.34	0	0	0	0	0	0
3/19/2025 21:12	16302	ALPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:12	10801	CHIH_T1	0	0	0	0	0	0	-1.75	-1.76	2	2	0	1500	1500	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 21:12	57601	RUTH_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
3/19/2025 21:12	44301	BEAV_T2	2	1	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
3/19/2025 21:12	41504	FAIR_T2	0	0	0	0	0	0	0.37	0.34	0	0	0	0	0	0
3/19/2025 21:12	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:12	61102	BERK_T5	1	1	0	0.2	0.3	0.1	0.08	0.06	3	3	0	900	900	0
3/19/2025 21:12	14603	SWHI_T1	0	0	0	0	0	0	-1.11	-1.11	1	1	0	600	600	0
3/19/2025 21:12	46903	MNTG_T2	0	0	0	0	0	0	-0.81	-0.81	1	1	0	600	600	0
3/19/2025 21:12	64202	KINZ_T1	3	3	0	0.17	0.4	0.23	0	0	0	0	0	0	0	0
3/19/2025 21:12	61101	BERK_T5	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/19/2025 21:12	21702	SUBU_T1	1	1	0	3.9	0.4	-3.5	0	0	0	0	0	0	0	0
3/19/2025 21:12	60101	COCA_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
3/19/2025 21:12	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:12	67303	WYOM_T2	0	0	0	0	0	0	0.17	0.21	0	0	0	0	0	0
3/19/2025 21:12	61103	BERK_T5	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:12	41901	REED_T1	8	9	1	0.54	0.74	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:12	21705	SUBU_T1	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:12	61502	EPET_T1	38	81	43	0.12	0.22	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:12	23901	EFMO_T2	0	0	0	0	0	0	0.03	0.04	0	0	0	0	0	0
3/19/2025 21:12	60502	NMAN_T2	0	0	0	0	0	0	-2.71	-2.8	0	0	0	0	0	0
3/19/2025 21:12	40201	BEGA_T2	11	20	9	0.49	0.42	-0.07	0	0	0	0	0	0	0	0
3/19/2025 21:12	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:12	42401	GIMA_T1	27	79	52	0.19	0.26	0.07	0	0	0	0	0	0	0	0
3/19/2025 21:12	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:12	17401	FOHI_T1	0	0	0	0	0	0	-2.14	-2.06	0	0	0	0	0	0
3/19/2025 21:12	44901	SCOT_T2	0	0	0	0	0	0	0.38	-0.05	0	0	0	0	0	0
3/19/2025 21:12	42701	AUGU_T1	1	1	0	0.6	1	0.4	0	0	4	4	0	3600	3600	0
3/19/2025 21:12	40303	TAMA_T3	3	6	3	0.57	0.37	-0.2	2.26	2.25	0	0	0	0	0	0
3/19/2025 21:12	60102	COCA_T1	0	0	0	0	0	0	0.63	0.34	2	2	0	1200	1200	0
3/19/2025 21:12	60501	NMAN_T2	52	218	166	0.25	0.32	0.07	0	0	0	0	0	0	0	0
3/19/2025 21:12	40302	TAMA_T3	27	30	3	0.38	0.46	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:12	44902	SCOT_T2	106	509	403	0.13	0.26	0.13	0	0	0	0	0	0	0	0
3/19/2025 21:12	64201	KINZ_T1	1	1	0	0.2	0.8	0.6	-0.64	-0.61	3	3	0	1500	1500	0
3/19/2025 21:12	62607	ENGL_T1	0	0	0	0	0	0	-2.36	-2.32	2	2	0	600	600	0
3/19/2025 21:12	20401	ASHF_T2	5	5	0	0.46	0.46	0	0.33	0.27	0	0	0	0	0	0
3/19/2025 21:12	45303	WBER_T2	8	9	1	1.13	1.13	0	-0.27	-0.31	0	0	0	0	0	0
3/19/2025 21:12	15001	BLMO_T1	3	3	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:12	46302	ROHR_T1	2	52	50	2.1	0.21	-1.89	0	0	0	0	0	0	0	0
3/19/2025 21:12	21701	SUBU_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:12	64204	KINZ_T1	1	1	0	0.9	1.5	0.6	0	0	0	0	0	0	0	0
3/19/2025 21:12	44502	HAMI_T2	1	1	0	3.4	3.5	0.1	0.02	0.01	0	0	0	0	0	0
3/19/2025 21:12	20403	ASHF_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/19/2025 21:12	41503	FAIR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:12	40301	TAMA_T3	1	4	3	0	0.23	0.23	0	0	0	0	0	0	0	0
3/19/2025 21:12	13902	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:12	46001	BERW_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
3/19/2025 21:12	40802	EXCH_T2	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
3/19/2025 21:12	61505	EPET_T1	0	0	0	0	0	0	0.1	0.08	0	0	0	0	0	0
3/19/2025 21:12	42501	ALTA_T2	0	0	0	0	0	0	1.17	1.09	0	0	0	0	0	0
3/19/2025 21:12	67002	STHI_T2	68	266	198	0.19	0.19	0	1.47	1.44	0	0	0	0	0	0
3/19/2025 21:13	43202	MVIL_T2	60	89	29	0.77	0.78	0.01	-0.78	-0.77	0	0	0	0	0	0
3/19/2025 21:13	16301	ALPA_T1	0	0	0	0	0	0	-0.39	-0.39	0	0	0	0	0	0
3/19/2025 21:13	64202	KINZ_T1	3	3	0	0.17	0.4	0.23	0	0	0	0	0	0	0	0
3/19/2025 21:13	67605	WARW_T1	14	21	7	0.32	0.42	0.1	-1.92	-2.02	0	0	0	0	0	0
3/19/2025 21:13	64802	MONE_T2	61	89	28	0.25	0.38	0.13	0	0	0	0	0	0	0	0
3/19/2025 21:13	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:13	44302	BEAV_T2	0	0	0	0	0	0	0.19	0.22	0	0	0	0	0	0
3/19/2025 21:13	16006	DORN_T2	0	0	0	0	0	0	1.22	1.1	0	0	0	0	0	0
3/19/2025 21:13	66505	SMAN_T2	3	3	0	0.97	1.73	0.76	-0.41	-0.58	1	1	0	900	900	0
3/19/2025 21:13	61304	EARL_T1	0	0	0	0	0	0	-0.46	-0.46	0	0	0	0	0	0
3/19/2025 21:13	43402	BENT_T1	0	0	0	0	0	0	-1.07	-1.07	1	1	0	900	900	0
3/19/2025 21:13	44301	BEAV_T2	2	1	-1	1.1	0	-1.1	0	0	0	0	0	0	0	0
3/19/2025 21:13	47102	MARL_T2	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:13	54502	ENOL_T2	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/19/2025 21:13	61301	EARL_T1	0	0	0	0	0	0	0.28	0.28	0	0	0	0	0	0
3/19/2025 21:13	11202	ELHE_T2	0	0	0	0	0	0	0.35	0.36	1	1	0	1200	1200	0
3/19/2025 21:13	14603	SWHI_T1	0	0	0	0	0	0	-2.22	-2.22	2	2	0	1200	1200	0
3/19/2025 21:13	63501	HEID_TBK1-2	2	25	23	0.5	0.22	-0.28	0.28	0.33	0	0	0	0	0	0
3/19/2025 21:13	40503	CRES_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:13	10204	ALLE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:13	54504	ENOL_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
3/19/2025 21:13	44502	HAMI_T2	1	1	0	3.4	3.5	0.1	0.02	0.01	0	0	0	0	0	0
3/19/2025 21:13	61101	BERK_T5	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/19/2025 21:13	66504	SMAN_T2	0	0	0	0	0	0	-2.25	-2.31	0	0	0	0	0	0
3/19/2025 21:13	13302	ORVI_T2	0	0	0	0	0	0	1.23	1.26	0	0	0	0	0	0
3/19/2025 21:13	61103	BERK_T5	0	3	3	0	0.1	0.1	-0.01	-0.01	0	0	0	0	0	0
3/19/2025 21:13	51107	CARL_T1	119	162	43	0.29	0.3	0.01	0	0	0	0	0	0	0	0
3/19/2025 21:13	64201	KINZ_T1	1	1	0	0.2	0.8	0.6	-0.64	-0.61	3	3	0	1500	1500	0
3/19/2025 21:13	40504	CRES_T1	27	92	65	0.31	0.27	-0.04	0	0	0	0	0	0	0	0
3/19/2025 21:13	10102	ALLE_T2	1	1	0	6.6	6.5	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:13	16302	ALPA_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
3/19/2025 21:13	12003	HATF_T1	0	0	0	0	0	0	1.19	1.23	0	0	0	0	0	0
3/19/2025 21:13	62101	ELAN_T1	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:13	21402	EXET_T2	7	2	-5	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
3/19/2025 21:13	64204	KINZ_T1	1	1	0	0.9	1.5	0.6	0	0	0	0	0	0	0	0
3/19/2025 21:13	62106	ELAN_T1	3	28	25	0.1	0.14	0.04	0	0	0	0	0	0	0	0
3/19/2025 21:13	64801	MONE_T2	94	148	54	0.24	0.36	0.12	-0.05	-0.08	0	0	0	0	0	0
3/19/2025 21:13	15404	WALL_T1	0	0	0	0	0	0	-0.4	-0.4	0	0	0	0	0	0
3/19/2025 21:13	51101	CARL_T1	1	1	0	4.8	4.9	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:13	61102	BERK_T5	1	1	0	0.2	0.3	0.1	0.05	0.04	2	2	0	600	600	0
3/19/2025 21:13	67401	WAKE_T2	1	3	2	0.1	0.1	0	0	0	0	0	0	0	0	0
3/19/2025 21:13	15001	BLMO_T1	3	3	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:13	67602	WARW_T2	0	0	0	0	0	0	2.58	2.5	2	2	0	600	600	0
3/19/2025 21:13	10903	COOP_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:13	41301	FISH_T1	1	5	4	0.6	0.22	-0.38	0	0	0	0	0	0	0	0
3/19/2025 21:13	14403	SSLA_T1	3	12	9	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
3/19/2025 21:13	66502	SMAN_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
3/19/2025 21:13	14404	SSLA_T1	27	82	55	0.11	0.15	0.04	-0.48	-0.51	0	0	0	0	0	0
3/19/2025 21:13	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
3/19/2025 21:13	62103	ELAN_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:13	60801	BUCK_T1	10	30	20	0.13	0.16	0.03	0	0	0	0	0	0	0	0
3/19/2025 21:13	40505	CRES_T1	5	66	61	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:13	51109	CARL_T1	21	1	-20	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
3/19/2025 21:13	54505	ENOL_T2	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:13	42501	ALTA_T2	0	0	0	0	0	0	0.58	0.54	0	0	0	0	0	0
3/19/2025 21:13	40502	CRES_T2	1	7	6	0.1	0.16	0.06	0.16	0.16	0	0	0	0	0	0
3/19/2025 21:13	47401	PENS_T1	0	1	1	0	0.2	0.2	0.71	0.65	0	0	0	0	0	0
3/19/2025 21:13	47103	MARL_T2	0	0	0	0	0	0	-0.59	-0.66	0	0	0	0	0	0
3/19/2025 21:13	46301	ROHR_T1	120	237	117	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/19/2025 21:13	67603	WARW_T1	0	0	0	0	0	0	-0.16	-0.17	0	0	0	0	0	0
3/19/2025 21:13	60101	COCA_T1	0	0	0	0	0	0	0.09	0.07	0	0	0	0	0	0
3/19/2025 21:13	51102	CARL_T1	104	116	12	0.25	0.25	0	0	0	0	0	0	0	0	0
3/19/2025 21:13	40501	CRES_T2	6	9	3	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
3/19/2025 21:13	12001	HATF_T1	0	0	0	0	0	0	0.52	0.56	2	2	0	1200	1200	0
3/19/2025 21:13	10401	LIGA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:13	51108	CARL_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/19/2025 21:13	59201	THOM_T1	11	17	6	0.26	0.34	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:13	46302	ROHR_T1	2	52	50	2.1	0.21	-1.89	0.09	0.12	0	0	0	0	0	0
3/19/2025 21:13	14402	SSLA_T1	171	280	109	0.18	0.29	0.11	0	0	0	0	0	0	0	0
3/19/2025 21:13	14801	TREI_T2	24	72	48	0.17	0.2	0.03	0.28	0.29	0	0	0	0	0	0
3/19/2025 21:13	60803	BUCK_T1	0	8	8	0	0.11	0.11	-0.6	-0.61	1	1	0	600	600	0
3/19/2025 21:13	14401	SSLA_T1	8	28	20	0.21	0.18	-0.03	0	0	0	0	0	0	0	0
3/19/2025 21:13	16102	BING_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:13	62102	ELAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:13	59202	THOM_T1	32	202	170	0.21	0.22	0.01	0	0	0	0	0	0	0	0
3/19/2025 21:13	67002	STHI_T2	68	266	198	0.19	0.19	0	0.98	0.96	0	0	0	0	0	0
3/19/2025 21:13	60201	ATGL_T2	73	203	130	0.22	0.3	0.08	-0.66	-0.82	0	0	0	0	0	0
3/19/2025 21:13	21403	EXET_T2	0	0	0	0	0	0	-1.42	-1.42	0	0	0	0	0	0
3/19/2025 21:13	67001	STHI_T2	406	549	143	0.27	0.35	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:13	64702	LITI_T2	0	0	0	0	0	0	-0.62	-0.69	0	0	0	0	0	0
3/19/2025 21:13	66902	SHIL_T2	0	0	0	0	0	0	-2.14	-2.12	0	0	0	0	0	0
3/19/2025 21:13	17801	GILB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:13	43201	MVIL_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
3/19/2025 21:13	62105	ELAN_T1	13	170	157	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/19/2025 21:13	14802	TREI_T2	5	13	8	0.24	0.24	0	0.58	0.54	0	0	0	0	0	0
3/19/2025 21:13	17401	FOHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:14	60501	NMAN_T2	52	218	166	0.25	0.32	0.07	0	0	0	0	0	0	0	0
3/19/2025 21:14	14802	TREI_T2	5	13	8	0.24	0.24	0	0.87	0.81	0	0	0	0	0	0
3/19/2025 21:14	61102	BERK_T5	1	1	0	0.2	0.3	0.1	0.05	0.04	2	2	0	600	600	0
3/19/2025 21:14	14801	TREI_T2	24	72	48	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/19/2025 21:14	60101	COCA_T1	0	0	0	0	0	0	0.17	0.15	0	0	0	0	0	0
3/19/2025 21:14	21701	SUBU_T1	1	1	0	6.5	6.3	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:14	41503	FAIR_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:14	64801	MONE_T2	94	148	54	0.24	0.36	0.12	-0.05	-0.08	0	0	0	0	0	0
3/19/2025 21:14	42503	ALTA_T2	0	0	0	0	0	0	0.37	0.36	0	0	0	0	0	0
3/19/2025 21:14	43301	WATS_T2	0	0	0	0	0	0	0.08	0.1	0	0	0	0	0	0
3/19/2025 21:14	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:14	65205	PRIN_T1	1	1	0	1	1.3	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:14	40501	CRES_T2	6	9	3	0.17	0.14	-0.03	0	0	0	0	0	0	0	0
3/19/2025 21:14	63804	HEMP_T1	1	1	0	5.9	5.5	-0.4	0	0	0	0	0	0	0	0
3/19/2025 21:14	40502	CRES_T2	1	7	6	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/19/2025 21:14	14404	SSLA_T1	27	82	55	0.11	0.15	0.04	0	0	0	0	0	0	0	0
3/19/2025 21:14	67001	STHI_T2	406	549	143	0.27	0.35	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:14	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:14	41301	FISH_T1	1	5	4	0.6	0.22	-0.38	-0.36	-0.37	0	0	0	0	0	0
3/19/2025 21:14	43302	WATS_T2	0	4	4	0	0.23	0.23	0	0	0	0	0	0	0	0
3/19/2025 21:14	42802	SELI_T1	1	1	0	0.4	0.1	-0.3	-1.3	-1.35	1	1	0	900	900	0
3/19/2025 21:14	15001	BLMO_T1	3	3	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:14	59201	THOM_T1	11	17	6	0.26	0.34	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:14	67605	WARW_T1	14	21	7	0.32	0.42	0.1	-0.96	-1.01	0	0	0	0	0	0
3/19/2025 21:14	61101	BERK_T5	1	2	1	0.2	0.25	0.05	0	0	0	0	0	0	0	0
3/19/2025 21:14	45501	DERR_T2	0	0	0	0	0	0	-0.28	-0.26	4	4	0	3600	3600	0
3/19/2025 21:14	41501	FAIR_T2	0	0	0	0	0	0	-1.13	-1.14	1	1	0	600	600	0
3/19/2025 21:14	55002	NEWP_T1	3	6	3	0.5	0.62	0.12	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 21:14	55001	NEWP_T1	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
3/19/2025 21:14	63601	LETO_T1	0	5	5	0	0.34	0.34	0.89	0.54	1	1	0	900	900	0
3/19/2025 21:14	60104	COCA_T2	4	4	0	0.23	0.35	0.12	-0.65	-0.65	1	1	0	600	600	0
3/19/2025 21:14	16302	ALPA_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
3/19/2025 21:14	42701	AUGU_T1	1	1	0	0.6	1	0.4	0	0	2	2	0	1800	1800	0
3/19/2025 21:14	11201	ELHE_T2	0	0	0	0	0	0	1.16	1.05	1	1	0	1200	1200	0
3/19/2025 21:14	67401	WAKE_T2	1	3	2	0.1	0.1	0	-1.05	-0.98	0	0	0	0	0	0
3/19/2025 21:14	64802	MONE_T2	61	89	28	0.25	0.38	0.13	0	0	0	0	0	0	0	0
3/19/2025 21:14	64101	REFR_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
3/19/2025 21:14	41901	REED_T1	8	9	1	0.54	0.74	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:14	41902	REED_T1	0	0	0	0	0	0	1.03	1.06	0	0	0	0	0	0
3/19/2025 21:14	14601	SWHI_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
3/19/2025 21:14	44802	EDAN_T2	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
3/19/2025 21:14	59202	THOM_T1	32	202	170	0.21	0.22	0.01	0	0	0	0	0	0	0	0
3/19/2025 21:14	62606	ENGL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:14	65202	PRIN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:14	63602	LETO_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:14	40801	EXCH_T2	0	0	0	0	0	0	0.76	0.71	0	0	0	0	0	0
3/19/2025 21:14	21704	SUBU_T1	0	0	0	0	0	0	-1.35	-1.37	1	1	0	1200	1200	0
3/19/2025 21:14	60803	BUCK_T1	0	8	8	0	0.11	0.11	-0.6	-0.61	1	1	0	600	600	0
3/19/2025 21:14	21702	SUBU_T1	1	1	0	3.9	0.4	-3.5	0	0	0	0	0	0	0	0
3/19/2025 21:14	10805	CHHI_T2	1	1	0	7.4	7.3	-0.1	-1.4	-1.39	1	1	0	600	600	0
3/19/2025 21:14	63802	HEMP_T1	0	0	0	0	0	0	0.12	0.08	0	0	0	0	0	0
3/19/2025 21:14	46802	HEPB_T1	0	1	1	0	0.1	0.1	-0.49	-0.5	0	0	0	0	0	0
3/19/2025 21:14	14403	SSLA_T1	3	12	9	0.2	0.18	-0.02	0	0	0	0	0	0	0	0
3/19/2025 21:14	61103	BERK_T5	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:14	66903	SHIL_T2	0	0	0	0	0	0	-1.3	-1.3	0	0	0	0	0	0
3/19/2025 21:14	67602	WARW_T2	0	0	0	0	0	0	2.58	2.5	2	2	0	600	600	0
3/19/2025 21:14	11104	EGYP_T1	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
3/19/2025 21:14	10504	CRAC_T1	0	0	0	0	0	0	0.65	0.71	0	0	0	0	0	0
3/19/2025 21:14	14402	SSLA_T1	171	280	109	0.18	0.29	0.11	0	0	0	0	0	0	0	0
3/19/2025 21:14	66703	STRA_T1	4	10	6	0.25	0.26	0.01	-0.46	-0.45	0	0	0	0	0	0
3/19/2025 21:14	67002	STHI_T2	68	266	198	0.19	0.19	0	0.49	0.48	0	0	0	0	0	0
3/19/2025 21:14	21705	SUBU_T1	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:14	14401	SSLA_T1	8	28	20	0.21	0.18	-0.03	-0.66	-0.66	0	0	0	0	0	0
3/19/2025 21:14	63501	HEID_TBK1-2	2	25	23	0.5	0.22	-0.28	0.28	0.33	0	0	0	0	0	0
3/19/2025 21:14	65503	MOJO_T2	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
3/19/2025 21:14	16006	DORN_T2	0	0	0	0	0	0	0.61	0.55	0	0	0	0	0	0
3/19/2025 21:14	44701	MUNC_T2	0	0	0	0	0	0	-1.48	-1.5	0	0	0	0	0	0
3/19/2025 21:14	14602	SWHI_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:14	60801	BUCK_T1	10	30	20	0.13	0.16	0.03	0	0	0	0	0	0	0	0
3/19/2025 21:15	24102	EHAZ_T1	1	2	1	0.8	0.75	-0.05	0	0	0	0	0	0	0	0
3/19/2025 21:15	64203	KINZ_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/19/2025 21:15	40101	HUNT_T2	4	0	-4	0.13	0	-0.13	-3.72	-3.7	0	0	0	0	0	0
3/19/2025 21:15	65503	MOJO_T2	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
3/19/2025 21:15	24105	EHAZ_T1	4	4	0	5.5	5.78	0.28	0	0	0	0	0	0	0	0
3/19/2025 21:15	67401	WAKE_T2	1	11	10	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/19/2025 21:15	22601	KIMB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:15	67203	TEHI_T1	0	0	0	0	0	0	2.53	2.44	2	2	0	1500	1500	0
3/19/2025 21:15	64704	LITI_T1	0	0	0	0	0	0	0.25	0.26	1	1	0	600	600	0
3/19/2025 21:15	60803	BUCK_T1	2	12	10	0.1	0.13	0.03	-0.6	-0.61	1	1	0	600	600	0
3/19/2025 21:15	40802	EXCH_T2	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
3/19/2025 21:15	61101	BERK_T5	1	3	2	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:15	40505	CRES_T1	55	69	14	0.19	0.26	0.07	0	0	0	0	0	0	0	0
3/19/2025 21:15	55001	NEWP_T1	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
3/19/2025 21:15	16301	ALPA_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
3/19/2025 21:15	65502	MOJO_T2	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:15	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
3/19/2025 21:15	64201	KINZ_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
3/19/2025 21:15	53901	HALI_T2	1	1	0	0.4	0.6	0.2	0.06	0.05	0	0	0	0	0	0
3/19/2025 21:15	66504	SMAN_T2	0	0	0	0	0	0	-1.5	-1.54	0	0	0	0	0	0
3/19/2025 21:15	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:15	41502	FAIR_T2	0	0	0	0	0	0	-0.74	-0.72	0	0	0	0	0	0
3/19/2025 21:15	53903	HALI_T2	2	2	0	1.35	1.3	-0.05	0	0	0	0	0	0	0	0
3/19/2025 21:15	12001	HATF_T1	0	0	0	0	0	0	0.26	0.28	1	1	0	600	600	0
3/19/2025 21:15	46203	DANV_T2	15	11	-4	0.15	0.15	0	0.06	0.06	0	0	0	0	0	0
3/19/2025 21:15	40504	CRES_T1	76	153	77	0.27	0.29	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:15	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
3/19/2025 21:15	44901	SCOT_T2	0	11	11	0	0.19	0.19	0	0	0	0	0	0	0	0
3/19/2025 21:15	63602	LETO_T1	0	2	2	0	0.1	0.1	-0.67	-0.64	0	0	0	0	0	0
3/19/2025 21:15	55002	NEWP_T1	6	6	0	0.4	0.63	0.23	0	0	0	0	0	0	0	0
3/19/2025 21:15	14601	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:15	16006	DORN_T2	0	0	0	0	0	0	0.61	0.55	0	0	0	0	0	0
3/19/2025 21:15	67602	WARW_T2	0	0	0	0	0	0	1.29	1.25	1	1	0	300	300	0
3/19/2025 21:15	44902	SCOT_T2	500	568	68	0.26	0.32	0.06	-0.96	-0.98	0	0	0	0	0	0
3/19/2025 21:15	40503	CRES_T1	2	8	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/19/2025 21:15	14403	SSLA_T1	12	7	-5	0.18	0.14	-0.04	0	0	0	0	0	0	0	0
3/19/2025 21:15	27502	WEIS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:15	66502	SMAN_T2	0	0	0	0	0	0	-0.24	-0.25	0	0	0	0	0	0
3/19/2025 21:15	63601	LETO_T1	0	5	5	0	0.34	0.34	0	0	0	0	0	0	0	0
3/19/2025 21:15	60801	BUCK_T1	25	39	14	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:15	61103	BERK_T5	1	12	11	0.1	0.12	0.02	-0.01	-0.01	0	0	0	0	0	0
3/19/2025 21:15	51302	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:15	64702	LITI_T2	0	0	0	0	0	0	-1.24	-1.38	0	0	0	0	0	0
3/19/2025 21:15	61102	BERK_T5	1	1	0	0.3	0.4	0.1	0.03	0.02	1	1	0	300	300	0
3/19/2025 21:15	42701	AUGU_T1	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:15	64204	KINZ_T1	1	1	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
3/19/2025 21:15	64202	KINZ_T1	2	3	1	0.35	0.6	0.25	0.59	0.6	0	0	0	0	0	0
3/19/2025 21:15	66505	SMAN_T2	3	3	0	1.3	1.83	0.53	0	0	0	0	0	0	0	0
3/19/2025 21:15	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:15	45303	WBER_T2	9	9	0	1.13	1.14	0.01	-0.27	-0.31	0	0	0	0	0	0
3/19/2025 21:15	14404	SSLA_T1	82	35	-47	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
3/19/2025 21:15	40201	BEGA_T2	20	10	-10	0.41	0.47	0.06	0	0	0	0	0	0	0	0
3/19/2025 21:15	24104	EHAZ_T1	0	0	0	0	0	0	-2.26	-2.26	1	1	0	1200	1200	0
3/19/2025 21:15	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/19/2025 21:15	14402	SSLA_T1	280	167	-113	0.29	0.18	-0.11	0	0	0	0	0	0	0	0
3/19/2025 21:15	14401	SSLA_T1	28	8	-20	0.18	0.23	0.05	0	0	0	0	0	0	0	0
3/19/2025 21:15	45501	DERR_T2	0	0	0	0	0	0	-0.14	-0.13	2	2	0	1800	1800	0
3/19/2025 21:15	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:15	16102	BING_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:15	44601	SALE_T2	1	1	0	0.5	0.2	-0.3	-0.24	-0.2	0	0	0	0	0	0
3/19/2025 21:16	55001	NEWP_T1	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
3/19/2025 21:16	62101	ELAN_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:16	51101	CARL_T1	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:16	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:16	44301	BEAV_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
3/19/2025 21:16	10502	CRAC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:16	62105	ELAN_T1	140	205	65	0.14	0.18	0.04	0.34	0.33	0	0	0	0	0	0
3/19/2025 21:16	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:16	60201	ATGL_T2	128	274	146	0.3	0.32	0.02	-0.33	-0.41	0	0	0	0	0	0
3/19/2025 21:16	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:16	57401	SPAN_T1	2	2	0	0.9	1.1	0.2	0.26	0.17	0	0	0	0	0	0
3/19/2025 21:16	63601	LETO_T1	0	5	5	0	0.34	0.34	0	0	0	0	0	0	0	0
3/19/2025 21:16	17805	GILB_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
3/19/2025 21:16	64202	KINZ_T1	2	3	1	0.35	0.6	0.25	0	0	0	0	0	0	0	0
3/19/2025 21:16	54601	SUMM_T2	6	10	4	0.62	0.7	0.08	-3.84	-3.9	4	4	0	4200	4200	0
3/19/2025 21:16	51108	CARL_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:16	54501	ENOL_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/19/2025 21:16	66505	SMAN_T2	3	3	0	1.3	1.83	0.53	-0.41	-0.58	1	1	0	900	900	0
3/19/2025 21:16	62605	ENGL_T1	0	0	0	0	0	0	-0.94	-0.94	0	0	0	0	0	0
3/19/2025 21:16	61102	BERK_T5	1	1	0	0.3	0.4	0.1	0.03	0.02	1	1	0	300	300	0
3/19/2025 21:16	61101	BERK_T5	1	3	2	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:16	51107	CARL_T1	137	159	22	0.3	0.3	0	0	0	0	0	0	0	0	0
3/19/2025 21:16	40504	CRES_T1	76	153	77	0.27	0.29	0.02	-0.6	-0.62	0	0	0	0	0	0
3/19/2025 21:16	62607	ENGL_T1	0	0	0	0	0	0	-1.18	-1.16	1	1	0	300	300	0
3/19/2025 21:16	12701	MACU_T1	0	0	0	0	0	0	-0.01	-0.01	0	0	0	0	0	0
3/19/2025 21:16	64902	MILL_T2	0	0	0	0	0	0	-0.51	0.13	0	0	0	0	0	0
3/19/2025 21:16	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:16	40503	CRES_T1	2	8	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/19/2025 21:16	51102	CARL_T1	109	99	-10	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
3/19/2025 21:16	62103	ELAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:16	54505	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:16	53903	HALI_T2	2	2	0	1.35	1.3	-0.05	-0.19	-0.19	0	0	0	0	0	0
3/19/2025 21:16	40505	CRES_T1	55	69	14	0.19	0.26	0.07	0	0	0	0	0	0	0	0
3/19/2025 21:16	54502	ENOL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:16	67605	WARW_T1	17	21	4	0.44	0.45	0.01	-1.92	-2.02	0	0	0	0	0	0
3/19/2025 21:16	63602	LETO_T1	0	2	2	0	0.1	0.1	-0.67	-0.64	0	0	0	0	0	0
3/19/2025 21:16	64201	KINZ_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
3/19/2025 21:16	59301	MCAL_T1	704	578	-126	0.52	0.51	-0.01	-1.35	-1.34	0	0	0	0	0	0
3/19/2025 21:16	41301	FISH_T1	5	5	0	0.22	0.62	0.4	0	0	0	0	0	0	0	0
3/19/2025 21:16	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:16	62106	ELAN_T1	14	46	32	0.14	0.16	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:16	42701	AUGU_T1	1	1	0	0.9	1.2	0.3	0	0	2	2	0	1800	1800	0
3/19/2025 21:16	64204	KINZ_T1	1	1	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
3/19/2025 21:16	41202	KENM_T2	1	1	0	0.4	0.4	0	0.36	0.33	0	0	0	0	0	0
3/19/2025 21:16	55002	NEWP_T1	6	6	0	0.4	0.63	0.23	-0.6	-0.64	0	0	0	0	0	0
3/19/2025 21:16	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:16	51109	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:16	61103	BERK_T5	1	12	11	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:16	53901	HALI_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:16	46001	BERW_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
3/19/2025 21:16	45501	DERR_T2	0	0	0	0	0	0	-0.14	-0.13	2	2	0	1800	1800	0
3/19/2025 21:16	12002	HATF_T1	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0
3/19/2025 21:16	57403	SPAN_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/19/2025 21:16	59302	MCAL_T1	11	19	8	0.67	0.43	-0.24	0	0	0	0	0	0	0	0
3/19/2025 21:16	62102	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:16	52502	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:16	14601	SWHI_T1	0	0	0	0	0	0	-0.29	-0.3	0	0	0	0	0	0
3/19/2025 21:17	60502	NMAN_T2	0	0	0	0	0	0	-2.71	-2.8	0	0	0	0	0	0
3/19/2025 21:17	44302	BEAV_T2	0	0	0	0	0	0	0.58	0.66	0	0	0	0	0	0
3/19/2025 21:17	40502	CRES_T2	7	13	6	0.16	0.23	0.07	0.16	0.16	0	0	0	0	0	0
3/19/2025 21:17	66901	SHIL_T2	0	0	0	0	0	0	-0.64	-0.69	0	0	0	0	0	0
3/19/2025 21:17	54501	ENOL_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 21:17	14401	SSLA_T1	28	8	-20	0.18	0.23	0.05	0	0	0	0	0	0	0	0
3/19/2025 21:17	40501	CRES_T2	6	9	3	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
3/19/2025 21:17	20603	GRWO_T2	118	143	25	0.36	0.38	0.02	0.33	0.29	0	0	0	0	0	0
3/19/2025 21:17	57205	ROSS_T1	11	44	33	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:17	14603	SWHI_T1	0	0	0	0	0	0	-1.11	-1.11	1	1	0	600	600	0
3/19/2025 21:17	66505	SMAN_T2	3	3	0	1.3	1.83	0.53	0	0	0	0	0	0	0	0
3/19/2025 21:17	20602	GRWO_T2	27	20	-7	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
3/19/2025 21:17	59202	THOM_T1	118	266	148	0.19	0.37	0.18	0	0	0	0	0	0	0	0
3/19/2025 21:17	51301	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:17	16301	ALPA_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
3/19/2025 21:17	61502	EPET_T1	65	143	78	0.19	0.25	0.06	0	0	0	0	0	0	0	0
3/19/2025 21:17	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:17	66504	SMAN_T2	0	0	0	0	0	0	-0.75	-0.77	0	0	0	0	0	0
3/19/2025 21:17	51108	CARL_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:17	51107	CARL_T1	137	159	22	0.3	0.3	0	0	0	0	0	0	0	0	0
3/19/2025 21:17	60501	NMAN_T2	176	253	77	0.29	0.37	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:17	51109	CARL_T1	1	0	-1	0.1	0	-0.1	-1.11	0.24	1	0	-1	1200	0	-1200
3/19/2025 21:17	59201	THOM_T1	13	21	8	0.32	0.51	0.19	0	0	0	0	0	0	0	0
3/19/2025 21:17	57401	SPAN_T1	2	2	0	0.9	1.1	0.2	0.26	0.17	0	0	0	0	0	0
3/19/2025 21:17	61505	EPET_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:17	43201	MVIL_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
3/19/2025 21:17	54505	ENOL_T2	1	1	0	0.6	0.9	0.3	-1.46	-1.45	1	1	0	600	600	0
3/19/2025 21:17	66703	STRA_T1	4	67	63	0.4	0.2	-0.2	-0.46	-0.45	0	0	0	0	0	0
3/19/2025 21:17	14404	SSLA_T1	82	35	-47	0.15	0.11	-0.04	0	0	0	0	0	0	0	0
3/19/2025 21:17	60104	COCA_T2	4	4	0	0.35	0.48	0.13	-0.65	-0.65	1	1	0	600	600	0
3/19/2025 21:17	61101	BERK_T5	1	3	2	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:17	43202	MVIL_T2	87	89	2	0.76	0.94	0.18	-0.78	-0.77	0	0	0	0	0	0
3/19/2025 21:17	42902	MIDD_T2	0	0	0	0	0	0	-1.14	-1.2	1	1	0	600	600	0
3/19/2025 21:17	64101	REFR_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
3/19/2025 21:17	52402	GRPA_T2	5	5	0	1.04	1.02	-0.02	0	0	0	0	0	0	0	0
3/19/2025 21:17	67602	WARW_T2	0	0	0	0	0	0	2.58	2.5	2	2	0	600	600	0
3/19/2025 21:17	14605	SWHI_T1	0	0	0	0	0	0	0.91	0.87	1	1	0	1200	1200	0
3/19/2025 21:17	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:17	65901	SAKR_T2	0	0	0	0	0	0	-1.58	-1.52	1	1	0	900	900	0
3/19/2025 21:17	44301	BEAV_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
3/19/2025 21:17	61102	BERK_T5	1	1	0	0.3	0.4	0.1	0.03	0.02	1	1	0	300	300	0
3/19/2025 21:17	54601	SUMM_T2	6	10	4	0.62	0.7	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:17	16002	DORN_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
3/19/2025 21:17	43801	SWIL_T1	2	2	0	3.25	3.25	0	0	0	0	0	0	0	0	0
3/19/2025 21:17	67605	WARW_T1	17	21	4	0.44	0.45	0.01	-1.92	-2.02	0	0	0	0	0	0
3/19/2025 21:17	51101	CARL_T1	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:17	61103	BERK_T5	1	12	11	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:17	52403	GRPA_T2	5	6	1	0.12	0.23	0.11	0	0	0	0	0	0	0	0
3/19/2025 21:17	14403	SSLA_T1	12	7	-5	0.18	0.14	-0.04	0.49	0.43	0	0	0	0	0	0
3/19/2025 21:17	11201	ELHE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:17	54502	ENOL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:17	57403	SPAN_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/19/2025 21:17	52401	GRPA_T2	0	1	1	0	0.2	0.2	-0.8	-0.82	0	0	0	0	0	0
3/19/2025 21:17	51102	CARL_T1	109	99	-10	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
3/19/2025 21:17	23502	GEOR_T1	0	0	0	0	0	0	-0.47	-0.44	0	0	0	0	0	0
3/19/2025 21:17	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:17	62601	ENGL_T1	0	0	0	0	0	0	-0.19	-0.18	0	0	0	0	0	0
3/19/2025 21:17	57201	ROSS_T1	204	261	57	0.39	0.41	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:17	14402	SSLA_T1	280	167	-113	0.29	0.18	-0.11	0	0	0	0	0	0	0	0
3/19/2025 21:17	57203	ROSS_T1	514	683	169	0.18	0.2	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:17	57602	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:17	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:17	47401	PENS_T1	1	0	-1	0.2	0	-0.2	0.71	0.65	0	0	0	0	0	0
3/19/2025 21:17	42701	AUGU_T1	1	1	0	0.9	1.2	0.3	0	0	2	2	0	1800	1800	0
3/19/2025 21:17	63804	HEMP_T1	1	1	0	5.7	5.5	-0.2	0.66	0.68	0	0	0	0	0	0
3/19/2025 21:18	41301	FISH_T1	5	5	0	0.22	0.62	0.4	-0.36	-0.37	0	0	0	0	0	0
3/19/2025 21:18	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:18	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:18	54601	SUMM_T2	6	10	4	0.62	0.7	0.08	-1.92	-1.95	2	2	0	2100	2100	0
3/19/2025 21:18	62105	ELAN_T1	140	205	65	0.14	0.18	0.04	0.34	0.33	0	0	0	0	0	0
3/19/2025 21:18	66502	SMAN_T2	0	0	0	0	0	0	-0.72	-0.75	0	0	0	0	0	0
3/19/2025 21:18	42501	ALTA_T2	0	0	0	0	0	0	1.17	1.09	0	0	0	0	0	0
3/19/2025 21:18	43201	MVIL_T2	0	0	0	0	0	0	-0.43	-0.43	0	0	0	0	0	0
3/19/2025 21:18	60103	COCA_T2	0	0	0	0	0	0	-0.67	-0.71	0	0	0	0	0	0
3/19/2025 21:18	66703	STRA_T1	4	67	63	0.4	0.2	-0.2	-0.46	-0.45	0	0	0	0	0	0
3/19/2025 21:18	61101	BERK_T5	1	3	2	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:18	62101	ELAN_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:18	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:18	12202	FOGE_T2	0	0	0	0	0	0	-0.72	-0.75	1	1	0	600	600	0
3/19/2025 21:18	67602	WARW_T2	0	0	0	0	0	0	1.29	1.25	1	1	0	300	300	0
3/19/2025 21:18	54505	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:18	64101	REFR_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
3/19/2025 21:18	66504	SMAN_T2	0	0	0	0	0	0	-1.5	-1.54	0	0	0	0	0	0
3/19/2025 21:18	40802	EXCH_T2	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
3/19/2025 21:18	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:18	54502	ENOL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:18	40503	CRES_T1	2	8	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/19/2025 21:18	56501	ROCK_T2	2	2	0	0.45	0.55	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:18	47401	PENS_T1	1	0	-1	0.2	0	-0.2	0.71	0.65	0	0	0	0	0	0
3/19/2025 21:18	52204	DEVO_T2	2	1	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
3/19/2025 21:18	40504	CRES_T1	76	153	77	0.27	0.29	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:18	43202	MVIL_T2	87	89	2	0.76	0.94	0.18	0	0	0	0	0	0	0	0
3/19/2025 21:18	41901	REED_T1	9	9	0	0.74	0.58	-0.16	0	0	0	0	0	0	0	0
3/19/2025 21:18	62606	ENGL_T1	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
3/19/2025 21:18	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:18	16005	DORN_T1	1	1	0	1.2	1.1	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:18	60501	NMAN_T2	176	253	77	0.29	0.37	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:18	52202	DEVO_T2	1	0	-1	8.4	0	-8.4	-0.84	-0.85	0	0	0	0	0	0
3/19/2025 21:18	57201	ROSS_T1	204	261	57	0.39	0.41	0.02	-2.56	-2.62	0	0	0	0	0	0
3/19/2025 21:18	60104	COCA_T2	4	4	0	0.35	0.48	0.13	0	0	0	0	0	0	0	0
3/19/2025 21:18	53903	HALI_T2	2	2	0	1.35	1.3	-0.05	0	0	0	0	0	0	0	0
3/19/2025 21:18	10801	CHHI_T1	0	0	0	0	0	0	-1.75	-1.76	2	2	0	1500	1500	0
3/19/2025 21:18	64902	MILL_T2	0	0	0	0	0	0	-0.51	0.13	0	0	0	0	0	0
3/19/2025 21:18	66505	SMAN_T2	3	3	0	1.3	1.83	0.53	0	0	0	0	0	0	0	0
3/19/2025 21:18	21203	ECAR_T1	0	0	0	0	0	0	-0.53	-0.54	0	0	0	0	0	0
3/19/2025 21:18	52004	LING_T2	3	3	0	4.47	4.57	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:18	62102	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:18	62106	ELAN_T1	14	46	32	0.14	0.16	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:18	16301	ALPA_T1	0	0	0	0	0	0	-0.2	-0.2	0	0	0	0	0	0
3/19/2025 21:18	42902	MIDD_T2	0	0	0	0	0	0	-1.14	-1.2	1	1	0	600	600	0
3/19/2025 21:18	41902	REED_T1	0	0	0	0	0	0	1.03	1.06	0	0	0	0	0	0
3/19/2025 21:18	62103	ELAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:18	57203	ROSS_T1	514	683	169	0.18	0.2	0.02	0.52	0.5	0	0	0	0	0	0
3/19/2025 21:18	52006	LING_T2	2	2	0	1.3	1.45	0.15	0	0	0	0	0	0	0	0
3/19/2025 21:18	59301	MCAL_T1	704	578	-126	0.52	0.51	-0.01	-2.7	-2.68	0	0	0	0	0	0
3/19/2025 21:18	20401	ASHF_T2	5	4	-1	0.46	0.3	-0.16	0	0	0	0	0	0	0	0
3/19/2025 21:18	20403	ASHF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:18	53901	HALI_T2	1	1	0	0.4	0.6	0.2	0.12	0.1	0	0	0	0	0	0
3/19/2025 21:18	59302	MCAL_T1	11	19	8	0.67	0.43	-0.24	0	0	0	0	0	0	0	0
3/19/2025 21:18	14601	SWHI_T1	0	0	0	0	0	0	-0.87	-0.9	0	0	0	0	0	0
3/19/2025 21:18	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:18	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:18	61801	EELI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:18	61103	BERK_T5	1	12	11	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:18	10502	CRAC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:18	60502	NMAN_T2	0	0	0	0	0	0	-1.36	-1.4	0	0	0	0	0	0
3/19/2025 21:18	40505	CRES_T1	55	69	14	0.19	0.26	0.07	0.31	0.27	0	0	0	0	0	0
3/19/2025 21:18	52002	LING_T2	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
3/19/2025 21:18	57205	ROSS_T1	11	44	33	0.1	0.12	0.02	0.04	0	0	0	0	0	0	0
3/19/2025 21:18	54504	ENOL_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
3/19/2025 21:18	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:18	61102	BERK_T5	1	1	0	0.3	0.4	0.1	0.03	0.02	1	1	0	300	300	0
3/19/2025 21:18	56504	ROCK_T2	0	0	0	0	0	0	-0.26	-0.29	0	0	0	0	0	0
3/19/2025 21:18	57602	RUTH_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
3/19/2025 21:18	24702	FLND_T2	0	0	0	0	0	0	-0.29	-0.31	1	1	0	1200	1200	0
3/19/2025 21:18	15001	BLMO_T1	3	4	1	0.1	0.48	0.38	0	0	0	0	0	0	0	0
3/19/2025 21:18	22101	EDEL_T2	0	0	0	0	0	0	0.31	0.3	1	1	0	1200	1200	0
3/19/2025 21:19	59402	RFLD_T2	28	17	-11	0.24	0.27	0.03	-0.44	-0.45	0	0	0	0	0	0
3/19/2025 21:19	65503	MOJO_T2	0	0	0	0	0	0	-0.18	-0.21	0	0	0	0	0	0
3/19/2025 21:19	64204	KINZ_T1	1	1	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
3/19/2025 21:19	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:19	44701	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:19	63501	HEID_TBK1-2	2	38	36	0.8	0.37	-0.43	0.28	0.33	0	0	0	0	0	0
3/19/2025 21:19	10502	CRAC_T1	0	0	0	0	0	0	0.57	0.58	0	0	0	0	0	0
3/19/2025 21:19	20401	ASHF_T2	5	4	-1	0.46	0.3	-0.16	0	0	0	0	0	0	0	0
3/19/2025 21:19	44502	HAMI_T2	1	1	0	3.5	3.6	0.1	0.02	0.01	0	0	0	0	0	0
3/19/2025 21:19	14601	SWHI_T1	0	0	0	0	0	0	-0.58	-0.6	0	0	0	0	0	0
3/19/2025 21:19	14603	SWHI_T1	0	0	0	0	0	0	-2.22	-2.22	2	2	0	1200	1200	0
3/19/2025 21:19	57201	ROSS_T1	204	261	57	0.39	0.41	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:19	15402	WALL_T1	0	0	0	0	0	0	0.29	0.26	0	0	0	0	0	0
3/19/2025 21:19	67602	WARW_T2	0	0	0	0	0	0	1.29	1.25	1	1	0	300	300	0
3/19/2025 21:19	20403	ASHF_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/19/2025 21:19	67106	SPRI_T2	0	0	0	0	0	0	-1.36	-1.37	1	1	0	900	900	0
3/19/2025 21:19	44901	SCOT_T2	0	11	11	0	0.19	0.19	0	0	0	0	0	0	0	0
3/19/2025 21:19	51702	OBER_T1	2	2	0	3.5	3.55	0.05	-1.61	-1.64	0	0	0	0	0	0
3/19/2025 21:19	40301	TAMA_T3	4	4	0	0.23	0.23	0	1.75	1.73	1	1	0	1200	1200	0
3/19/2025 21:19	45303	WBER_T2	9	9	0	1.13	1.14	0.01	-0.27	-0.31	0	0	0	0	0	0
3/19/2025 21:19	17401	FOHI_T1	0	0	0	0	0	0	-1.07	-1.03	0	0	0	0	0	0
3/19/2025 21:19	44802	EDAN_T2	0	0	0	0	0	0	-0.93	-0.94	0	0	0	0	0	0
3/19/2025 21:19	52004	LING_T2	3	3	0	4.47	4.57	0.1	0.08	0.04	0	0	0	0	0	0
3/19/2025 21:19	44902	SCOT_T2	500	568	68	0.26	0.32	0.06	-0.96	-0.98	0	0	0	0	0	0
3/19/2025 21:19	14801	TREI_T2	72	47	-25	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/19/2025 21:19	52006	LING_T2	2	2	0	1.3	1.45	0.15	0	0	0	0	0	0	0	0
3/19/2025 21:19	64201	KINZ_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
3/19/2025 21:19	51109	CARL_T1	1	0	-1	0.1	0	-0.1	-1.11	0.24	1	0	-1	1200	0	-1200
3/19/2025 21:19	65502	MOJO_T2	0	10	10	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:19	64202	KINZ_T1	2	3	1	0.35	0.6	0.25	0	0	0	0	0	0	0	0
3/19/2025 21:19	57303	MOAL_T2	1	1	0	7.3	7.3	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 21:19	20603	GRWO_T2	118	143	25	0.36	0.38	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:19	43801	SWIL_T1	2	2	0	3.25	3.25	0	-0.97	-0.97	1	1	0	600	600	0
3/19/2025 21:19	57301	MOAL_T2	6	7	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/19/2025 21:19	57403	SPAN_T1	1	0	-1	0.5	0	-0.5	-0.14	-0.16	0	0	0	0	0	0
3/19/2025 21:19	67303	WYOM_T2	0	0	0	0	0	0	0.17	0.21	0	0	0	0	0	0
3/19/2025 21:19	57203	ROSS_T1	514	683	169	0.18	0.2	0.02	0.26	0.25	0	0	0	0	0	0
3/19/2025 21:19	67001	STHI_T2	513	571	58	0.31	0.35	0.04	0	0	0	0	0	0	0	0
3/19/2025 21:19	57304	MOAL_T2	1	2	1	0.1	0.2	0.1	-0.56	-0.58	0	0	0	0	0	0
3/19/2025 21:19	67002	STHI_T2	191	324	133	0.18	0.21	0.03	0	0	0	0	0	0	0	0
3/19/2025 21:19	42701	AUGU_T1	1	1	0	0.9	1.2	0.3	0	0	2	2	0	1800	1800	0
3/19/2025 21:19	64801	MONE_T2	116	148	32	0.3	0.39	0.09	0	0	0	0	0	0	0	0
3/19/2025 21:19	40502	CRES_T2	7	13	6	0.16	0.23	0.07	0.16	0.16	0	0	0	0	0	0
3/19/2025 21:19	61102	BERK_T5	1	1	0	0.3	0.4	0.1	0.03	0.02	1	1	0	300	300	0
3/19/2025 21:19	43202	MVIL_T2	87	89	2	0.76	0.94	0.18	-0.78	-0.77	0	0	0	0	0	0
3/19/2025 21:19	54505	ENOL_T2	1	1	0	0.6	0.9	0.3	-4.38	-4.35	3	3	0	1800	1800	0
3/19/2025 21:19	64802	MONE_T2	82	97	15	0.3	0.39	0.09	0.1	0.09	0	0	0	0	0	0
3/19/2025 21:19	64402	LAND_T2	0	0	0	0	0	0	-0.5	-0.52	1	1	0	600	600	0
3/19/2025 21:19	43402	BENT_T1	0	0	0	0	0	0	-2.13	-2.13	2	2	0	1800	1800	0
3/19/2025 21:19	46001	BERW_T1	0	0	0	0	0	0	0.46	0.45	0	0	0	0	0	0
3/19/2025 21:19	51101	CARL_T1	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:19	44301	BEAV_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
3/19/2025 21:19	44302	BEAV_T2	0	0	0	0	0	0	0.19	0.22	0	0	0	0	0	0
3/19/2025 21:19	40501	CRES_T2	6	9	3	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
3/19/2025 21:19	40302	TAMA_T3	30	30	0	0.46	0.44	-0.02	0	0	0	0	0	0	0	0
3/19/2025 21:19	54502	ENOL_T2	1	1	0	0.4	0.7	0.3	-2.84	-2.84	0	0	0	0	0	0
3/19/2025 21:19	40303	TAMA_T3	6	5	-1	0.37	0.18	-0.19	0	0	0	0	0	0	0	0
3/19/2025 21:19	58402	MORO_T1	0	0	0	0	0	0	0.35	0.32	1	1	0	900	900	0
3/19/2025 21:19	45501	DERR_T2	0	0	0	0	0	0	-0.14	-0.13	2	2	0	1800	1800	0
3/19/2025 21:19	57402	SPAN_T2	46	88	42	0.12	0.14	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:19	57401	SPAN_T1	2	2	0	0.9	1.1	0.2	0.52	0.34	0	0	0	0	0	0
3/19/2025 21:19	51108	CARL_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:19	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:19	60502	NMAN_T2	0	0	0	0	0	0	-1.36	-1.4	0	0	0	0	0	0
3/19/2025 21:19	20601	GRWO_T2	0	0	0	0	0	0	0.66	0.67	0	0	0	0	0	0
3/19/2025 21:19	10903	COOP_T2	4	24	20	0.1	0.14	0.04	-0.54	-0.52	1	1	0	600	600	0
3/19/2025 21:19	51102	CARL_T1	109	99	-10	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
3/19/2025 21:19	44801	EDAN_T2	0	1	1	0	0	0	-1.65	-1.65	0	0	0	0	0	0
3/19/2025 21:19	47401	PENS_T1	1	0	-1	0.2	0	-0.2	0.71	0.65	0	0	0	0	0	0
3/19/2025 21:19	67401	WAKE_T2	1	11	10	0.1	0.15	0.05	-1.05	-0.98	0	0	0	0	0	0
3/19/2025 21:19	21901	HUMB_T1	0	0	0	0	0	0	-0.9	-0.93	0	0	0	0	0	0
3/19/2025 21:19	51107	CARL_T1	137	159	22	0.3	0.3	0	0	0	0	0	0	0	0	0
3/19/2025 21:19	42201	SHEN_T2	0	0	0	0	0	0	0.38	0.38	0	0	0	0	0	0
3/19/2025 21:19	40101	HUNT_T2	4	0	-4	0.13	0	-0.13	-1.86	-1.85	0	0	0	0	0	0
3/19/2025 21:19	57602	RUTH_T2	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
3/19/2025 21:19	52002	LING_T2	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
3/19/2025 21:19	61103	BERK_T5	1	12	11	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:19	47403	PENS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:19	14802	TREI_T2	13	10	-3	0.24	0.19	-0.05	0	0	0	0	0	0	0	0
3/19/2025 21:19	42902	MIDD_T2	0	0	0	0	0	0	-1.14	-1.2	1	1	0	600	600	0
3/19/2025 21:19	40801	EXCH_T2	0	0	0	0	0	0	0.76	0.71	0	0	0	0	0	0
3/19/2025 21:19	45802	HEGI_T2	24	48	24	0.55	1.15	0.6	0	0	0	0	0	0	0	0
3/19/2025 21:19	61101	BERK_T5	1	3	2	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:19	20602	GRWO_T2	27	20	-7	0.14	0.13	-0.01	0	0	0	0	0	0	0	0
3/19/2025 21:19	64203	KINZ_T1	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/19/2025 21:19	10504	CRAC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:19	60501	NMAN_T2	176	253	77	0.29	0.37	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:19	57205	ROSS_T1	11	44	33	0.1	0.12	0.02	0.02	0	0	0	0	0	0	0
3/19/2025 21:19	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:20	53903	HALI_T2	2	2	0	1.35	1.3	-0.05	0	0	0	0	0	0	0	0
3/19/2025 21:20	57003	WHHI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:20	40504	CRES_T1	76	153	77	0.27	0.29	0.02	-0.6	-0.62	0	0	0	0	0	0
3/19/2025 21:20	57205	ROSS_T1	11	44	33	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:20	60501	NMAN_T2	176	253	77	0.29	0.37	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:20	60502	NMAN_T2	0	0	0	0	0	0	-1.36	-1.4	0	0	0	0	0	0
3/19/2025 21:20	44901	SCOT_T2	0	11	11	0	0.19	0.19	0.19	-0.03	0	0	0	0	0	0
3/19/2025 21:20	57203	ROSS_T1	514	683	169	0.18	0.2	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:20	46803	HEPB_T2	0	0	0	0	0	0	0.8	0.78	0	0	0	0	0	0
3/19/2025 21:20	47401	PENS_T1	1	0	-1	0.2	0	-0.2	0.71	0.65	0	0	0	0	0	0
3/19/2025 21:20	53901	HALI_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:20	46801	HEPB_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:20	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:20	57602	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:20	44902	SCOT_T2	500	568	68	0.26	0.32	0.06	0	0	0	0	0	0	0	0
3/19/2025 21:20	57402	SPAN_T2	46	88	42	0.12	0.14	0.02	-0.61	-0.62	0	0	0	0	0	0
3/19/2025 21:20	52202	DEVO_T2	1	0	-1	8.4	0	-8.4	-0.84	-0.85	0	0	0	0	0	0
3/19/2025 21:20	57006	WHHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:20	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:20	59302	MCAL_T1	11	19	8	0.67	0.43	-0.24	0	0	0	0	0	0	0	0
3/19/2025 21:20	42903	MIDD_T2	0	0	0	0	0	0	-0.29	-0.36	0	0	0	0	0	0
3/19/2025 21:20	43801	SWIL_T1	2	2	0	3.25	3.25	0	0	0	0	0	0	0	0	0
3/19/2025 21:20	42701	AUGU_T1	1	1	0	0.9	1.2	0.3	0	0	4	4	0	3600	3600	0
3/19/2025 21:20	59301	MCAL_T1	704	578	-126	0.52	0.51	-0.01	-1.35	-1.34	0	0	0	0	0	0
3/19/2025 21:20	64101	REFR_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
3/19/2025 21:20	52002	LING_T2	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
3/19/2025 21:20	55002	NEWP_T1	6	6	0	0.4	0.63	0.23	0	0	0	0	0	0	0	0
3/19/2025 21:20	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:20	40503	CRES_T1	2	8	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/19/2025 21:20	52006	LING_T2	2	2	0	1.3	1.45	0.15	0	0	0	0	0	0	0	0
3/19/2025 21:20	67401	WAKE_T2	1	11	10	0.1	0.15	0.05	-1.05	-0.98	0	0	0	0	0	0
3/19/2025 21:20	61103	BERK_T5	1	12	11	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:20	67001	STHI_T2	513	571	58	0.31	0.35	0.04	0	0	0	0	0	0	0	0
3/19/2025 21:20	55001	NEWP_T1	0	0	0	0	0	0	-0.41	-0.44	0	0	0	0	0	0
3/19/2025 21:20	43802	SWIL_T1	0	0	0	0	0	0	-0.33	-0.33	1	1	0	600	600	0
3/19/2025 21:20	61102	BERK_T5	1	1	0	0.3	0.4	0.1	0.03	0.02	1	1	0	300	300	0
3/19/2025 21:20	57201	ROSS_T1	204	261	57	0.39	0.41	0.02	-1.28	-1.31	0	0	0	0	0	0
3/19/2025 21:20	67402	WAKE_T2	0	0	0	0	0	0	0.13	0.09	0	0	0	0	0	0
3/19/2025 21:20	11101	EGYP_T1	0	2	2	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:20	60801	BUCK_T1	25	39	14	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:20	61801	EELI_T2	0	1	1	0	0.1	0.1	-1.04	-1.1	0	0	0	0	0	0
3/19/2025 21:20	57002	WHHI_T2	0	0	0	0	0	0	-1.22	-1.22	1	1	0	1200	1200	0
3/19/2025 21:20	40502	CRES_T2	7	13	6	0.16	0.23	0.07	0	0	0	0	0	0	0	0
3/19/2025 21:20	57401	SPAN_T1	2	2	0	0.9	1.1	0.2	0.26	0.17	0	0	0	0	0	0
3/19/2025 21:20	40505	CRES_T1	55	69	14	0.19	0.26	0.07	0.15	0.13	0	0	0	0	0	0
3/19/2025 21:20	61101	BERK_T5	1	3	2	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:20	11104	EGYP_T1	0	0	0	0	0	0	0.33	0.36	0	0	0	0	0	0
3/19/2025 21:20	52204	DEVO_T2	2	1	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
3/19/2025 21:20	61501	EPET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:20	57004	WHHI_T2	0	0	0	0	0	0	-0.83	-0.83	0	0	0	0	0	0
3/19/2025 21:20	52001	LING_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/19/2025 21:20	57403	SPAN_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/19/2025 21:20	67002	STHI_T2	191	324	133	0.18	0.21	0.03	0.49	0.48	0	0	0	0	0	0
3/19/2025 21:20	40501	CRES_T2	6	9	3	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
3/19/2025 21:20	60803	BUCK_T1	2	12	10	0.1	0.13	0.03	-0.6	-0.61	1	1	0	600	600	0
3/19/2025 21:20	43202	MVIL_T2	87	89	2	0.76	0.94	0.18	-0.78	-0.77	0	0	0	0	0	0
3/19/2025 21:20	67602	WARW_T2	0	0	0	0	0	0	1.29	1.25	1	1	0	300	300	0
3/19/2025 21:20	66505	SMAN_T2	3	3	0	1.3	1.83	0.53	0	0	0	0	0	0	0	0
3/19/2025 21:20	61803	EELI_T2	0	0	0	0	0	0	0.8	0.82	0	0	0	0	0	0
3/19/2025 21:20	16002	DORN_T2	0	0	0	0	0	0	0.53	0.53	0	0	0	0	0	0
3/19/2025 21:20	52101	MEIS_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:20	52004	LING_T2	3	3	0	4.47	4.57	0.1	0.08	0.04	0	0	0	0	0	0
3/19/2025 21:21	57203	ROSS_T1	514	683	169	0.18	0.2	0.02	0.26	0.25	0	0	0	0	0	0
3/19/2025 21:21	54501	ENOL_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/19/2025 21:21	66505	SMAN_T2	3	3	0	1.3	1.83	0.53	0	0	0	0	0	0	0	0
3/19/2025 21:21	42701	AUGU_T1	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:21	60501	NMAN_T2	176	253	77	0.29	0.37	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:21	44902	SCOT_T2	500	568	68	0.26	0.32	0.06	-0.98	-0.97	0	0	0	0	0	0
3/19/2025 21:21	66504	SMAN_T2	0	0	0	0	0	0	-0.77	-0.74	0	0	0	0	0	0
3/19/2025 21:21	57205	ROSS_T1	11	44	33	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:21	55001	NEWP_T1	0	0	0	0	0	0	-0.82	-0.88	0	0	0	0	0	0
3/19/2025 21:21	57601	RUTH_T2	0	0	0	0	0	0	0.47	0.46	0	0	0	0	0	0
3/19/2025 21:21	57201	ROSS_T1	204	261	57	0.39	0.41	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:21	44301	BEAV_T2	1	0	-1	1	0	-1	0.28	0.13	1	1	0	600	600	0
3/19/2025 21:21	54503	ENOL_T2	0	0	0	0	0	0	-0.49	-0.51	1	1	0	600	600	0
3/19/2025 21:21	57402	SPAN_T2	46	88	42	0.12	0.14	0.02	-1.22	-1.24	0	0	0	0	0	0
3/19/2025 21:21	54502	ENOL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:21	60502	NMAN_T2	0	0	0	0	0	0	-1.4	-1.4	0	0	0	0	0	0
3/19/2025 21:21	47401	PENS_T1	1	0	-1	0.2	0	-0.2	0.65	0.61	0	0	0	0	0	0
3/19/2025 21:21	55002	NEWP_T1	6	6	0	0.4	0.63	0.23	-0.6	-0.64	0	0	0	0	0	0
3/19/2025 21:21	45501	DERR_T2	0	0	0	0	0	0	-0.13	-0.14	2	2	0	1800	1800	0
3/19/2025 21:21	54505	ENOL_T2	1	1	0	0.6	0.9	0.3	-1.46	-1.45	1	1	0	600	600	0
3/19/2025 21:21	46203	DANV_T2	15	11	-4	0.15	0.15	0	0.06	0.07	0	0	0	0	0	0
3/19/2025 21:21	47101	MARL_T1	0	0	0	0	0	0	-1.36	-1.35	0	0	0	0	0	0
3/19/2025 21:21	57602	RUTH_T2	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0	0
3/19/2025 21:21	52502	PROG_T2	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
3/19/2025 21:21	57404	SPAN_T2	0	0	0	0	0	0	-0.18	-0.18	1	1	0	1200	1200	0
3/19/2025 21:21	47201	FAXO_T2	0	0	0	0	0	0	-2.38	-2.38	1	1	0	1200	1200	0
3/19/2025 21:21	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:21	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:21	64101	REFR_T1	0	0	0	0	0	0	83.96	83.96	0	0	0	0	0	0
3/19/2025 21:21	44901	SCOT_T2	0	11	11	0	0.19	0.19	0	0	0	0	0	0	0	0
3/19/2025 21:21	14603	SWHI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:21	14602	SWHI_T1	1	0	-1	0.2	0	-0.2	0.14	0.12	0	0	0	0	0	0
3/19/2025 21:22	57203	ROSS_T1	514	683	169	0.18	0.2	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:22	47203	FAXO_T2	0	0	0	0	0	0	-0.41	-0.32	0	0	0	0	0	0
3/19/2025 21:22	46302	ROHR_T1	51	29	-22	0.21	0.31	0.1	0.12	0.09	0	0	0	0	0	0
3/19/2025 21:22	52204	DEVO_T2	2	1	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
3/19/2025 21:22	52202	DEVO_T2	1	0	-1	8.4	0	-8.4	-0.85	0.43	0	0	0	0	0	0
3/19/2025 21:22	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:22	43802	SWIL_T1	0	0	0	0	0	0	-0.66	-0.66	2	2	0	1200	1200	0
3/19/2025 21:22	46301	ROHR_T1	232	181	-51	0.37	0.34	-0.03	0	0	0	0	0	0	0	0
3/19/2025 21:22	47401	PENS_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:22	54601	SUMM_T2	6	10	4	0.62	0.7	0.08	-1.95	-2.04	2	2	0	2100	2100	0
3/19/2025 21:22	44802	EDAN_T2	0	0	0	0	0	0	-0.94	-0.9	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 21:22	57601	RUTH_T2	0	0	0	0	0	0	0.46	0.47	0	0	0	0	0	0
3/19/2025 21:22	57602	RUTH_T2	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
3/19/2025 21:22	61103	BERK_T5	1	12	11	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:22	66901	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:22	18001	ZION_T1	2	2	0	9.8	9.8	0	0	0	0	0	0	0	0	0
3/19/2025 21:22	41902	REED_T1	0	0	0	0	0	0	1.06	0.98	0	0	0	0	0	0
3/19/2025 21:22	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:22	64704	LITI_T1	0	0	0	0	0	0	0.26	0.27	1	1	0	600	600	0
3/19/2025 21:22	16301	ALPA_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
3/19/2025 21:22	57201	ROSS_T1	204	261	57	0.39	0.41	0.02	-1.31	-1.3	0	0	0	0	0	0
3/19/2025 21:22	43801	SWIL_T1	2	2	0	3.25	3.25	0	0	0	0	0	0	0	0	0
3/19/2025 21:22	41501	FAIR_T2	0	0	0	0	0	0	-1.14	-1.15	1	1	0	600	600	0
3/19/2025 21:22	44701	MUNC_T2	0	0	0	0	0	0	-1.5	-1.5	0	0	0	0	0	0
3/19/2025 21:22	57205	ROSS_T1	11	44	33	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:22	61102	BERK_T5	1	1	0	0.3	0.4	0.1	0.02	-0.02	1	1	0	300	300	0
3/19/2025 21:22	44502	HAMI_T2	1	1	0	3.5	3.6	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:22	44505	HAMI_T2	0	0	0	0	0	0	0.34	0.35	0	0	0	0	0	0
3/19/2025 21:22	61101	BERK_T5	1	3	2	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:22	41901	REED_T1	9	9	0	0.74	0.58	-0.16	0	0	0	0	0	0	0	0
3/19/2025 21:23	67001	STHI_T2	513	571	58	0.31	0.35	0.04	0	0	0	0	0	0	0	0
3/19/2025 21:23	15103	UPHA_T2	0	0	0	0	0	0	0.27	0.28	0	0	0	0	0	0
3/19/2025 21:23	66502	SMAN_T2	0	0	0	0	0	0	-0.25	-0.22	0	0	0	0	0	0
3/19/2025 21:23	57403	SPAN_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/19/2025 21:23	67002	STHI_T2	191	324	133	0.18	0.21	0.03	0	0	0	0	0	0	0	0
3/19/2025 21:23	57303	MOAL_T2	1	1	0	7.3	7.3	0	0	0	0	0	0	0	0	0
3/19/2025 21:23	57601	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:23	43802	SWIL_T1	0	0	0	0	0	0	-0.33	-0.33	1	1	0	600	600	0
3/19/2025 21:23	42501	ALTA_T2	0	0	0	0	0	0	0.54	0.55	0	0	0	0	0	0
3/19/2025 21:23	42802	SELI_T1	1	1	0	0.1	0.4	0.3	-2.7	-2.72	2	2	0	1800	1800	0
3/19/2025 21:23	66504	SMAN_T2	0	0	0	0	0	0	-0.77	-0.74	0	0	0	0	0	0
3/19/2025 21:23	54502	ENOL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:23	45501	DERR_T2	0	0	0	0	0	0	-0.13	-0.14	2	2	0	1800	1800	0
3/19/2025 21:23	42701	AUGU_T1	1	1	0	0.9	1.2	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:23	54501	ENOL_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/19/2025 21:23	44802	EDAN_T2	0	0	0	0	0	0	-0.94	-0.9	0	0	0	0	0	0
3/19/2025 21:23	21206	ECAR_T2	1	1	0	8	8.3	0.3	1.24	1.16	0	0	0	0	0	0
3/19/2025 21:23	57301	MOAL_T2	6	7	1	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/19/2025 21:23	44301	BEAV_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
3/19/2025 21:23	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:23	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:23	44801	EDAN_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:23	57602	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:23	57304	MOAL_T2	1	2	1	0.1	0.2	0.1	-0.58	-0.58	0	0	0	0	0	0
3/19/2025 21:23	43801	SWIL_T1	2	2	0	3.25	3.25	0	0	0	0	0	0	0	0	0
3/19/2025 21:23	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
3/19/2025 21:23	42902	MIDD_T2	0	0	0	0	0	0	-2.4	-2.24	2	2	0	1200	1200	0
3/19/2025 21:23	66505	SMAN_T2	3	3	0	1.3	1.83	0.53	0	0	0	0	0	0	0	0
3/19/2025 21:23	54505	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:23	57401	SPAN_T1	2	2	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:23	58401	MORO_T1	0	0	0	0	0	0	-1.24	-1.2	1	1	0	600	600	0
3/19/2025 21:24	67001	STHI_T2	513	571	58	0.31	0.35	0.04	0	0	0	0	0	0	0	0
3/19/2025 21:24	51107	CARL_T1	137	159	22	0.3	0.3	0	0	0	0	0	0	0	0	0
3/19/2025 21:24	52006	LING_T2	2	2	0	1.3	1.45	0.15	0	0	0	0	0	0	0	0
3/19/2025 21:24	59302	MCAL_T1	11	19	8	0.67	0.43	-0.24	0	0	0	0	0	0	0	0
3/19/2025 21:24	44301	BEAV_T2	1	0	-1	1	0	-1	0.28	0.13	1	1	0	600	600	0
3/19/2025 21:24	40503	CRES_T1	2	8	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/19/2025 21:24	40505	CRES_T1	55	69	14	0.19	0.26	0.07	0.13	0.11	0	0	0	0	0	0
3/19/2025 21:24	40504	CRES_T1	76	153	77	0.27	0.29	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:24	57602	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:24	52004	LING_T2	3	3	0	4.47	4.57	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:24	43202	MVIL_T2	87	89	2	0.76	0.94	0.18	-0.77	-0.77	0	0	0	0	0	0
3/19/2025 21:24	47104	MARL_T1	0	0	0	0	0	0	-1.06	-1.06	0	0	0	0	0	0
3/19/2025 21:24	57401	SPAN_T1	2	2	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:24	52002	LING_T2	0	1	1	0	1.2	1.2	-0.36	-0.35	0	0	0	0	0	0
3/19/2025 21:24	47401	PENS_T1	1	0	-1	0.2	0	-0.2	0.65	0.61	0	0	0	0	0	0
3/19/2025 21:24	52001	LING_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
3/19/2025 21:24	67602	WARW_T2	0	0	0	0	0	0	1.25	1.27	1	1	0	300	300	0
3/19/2025 21:24	54505	ENOL_T2	1	1	0	0.6	0.9	0.3	-1.45	-1.44	1	1	0	600	600	0
3/19/2025 21:24	41301	FISH_T1	5	5	0	0.22	0.62	0.4	-0.37	-0.36	0	0	0	0	0	0
3/19/2025 21:24	54502	ENOL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:24	60803	BUCK_T1	2	12	10	0.1	0.13	0.03	-0.61	-0.62	1	1	0	600	600	0
3/19/2025 21:24	41002	LAUR_T2	20	25	5	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/19/2025 21:24	57403	SPAN_T1	1	0	-1	0.5	0	-0.5	-0.08	-0.09	0	0	0	0	0	0
3/19/2025 21:24	42802	SELI_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:24	67002	STHI_T2	191	324	133	0.18	0.21	0.03	0.96	0.96	0	0	0	0	0	0
3/19/2025 21:24	41001	LAUR_T2	52	74	22	0.16	0.22	0.06	0	0	0	0	0	0	0	0
3/19/2025 21:24	66505	SMAN_T2	3	3	0	1.3	1.83	0.53	0	0	0	0	0	0	0	0
3/19/2025 21:24	59301	MCAL_T1	704	578	-126	0.52	0.51	-0.01	-2.68	-2.68	0	0	0	0	0	0
3/19/2025 21:24	51101	CARL_T1	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:24	46203	DANV_T2	15	11	-4	0.15	0.15	0	0.06	0.07	0	0	0	0	0	0
3/19/2025 21:24	60801	BUCK_T1	25	39	14	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:24	51109	CARL_T1	1	0	-1	0.1	0	-0.1	0.24	0.23	0	0	0	0	0	0
3/19/2025 21:24	66504	SMAN_T2	0	0	0	0	0	0	-0.77	-0.74	0	0	0	0	0	0
3/19/2025 21:24	66502	SMAN_T2	0	0	0	0	0	0	-0.25	-0.22	0	0	0	0	0	0
3/19/2025 21:24	40802	EXCH_T2	0	0	0	0	0	0	-0.31	-0.25	0	0	0	0	0	0
3/19/2025 21:24	57601	RUTH_T2	0	0	0	0	0	0	0.92	0.94	0	0	0	0	0	0
3/19/2025 21:24	51108	CARL_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:24	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:24	58401	MORO_T1	0	0	0	0	0	0	-2.48	-2.4	2	2	0	1200	1200	0
3/19/2025 21:24	51102	CARL_T1	109	99	-10	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
3/19/2025 21:24	51102	CARL_T1	109	99	-10	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
3/19/2025 21:24	51109	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:25	66505	SMAN_T2	3	3	0	1.3	1.83	0.53	0	0	0	0	0	0	0	0
3/19/2025 21:25	63501	HEID_TBK1-2	2	38	36	0.8	0.37	-0.43	0.66	0.42	0	0	0	0	0	0
3/19/2025 21:25	58101	NEKI_T1	0	35	35	0	0.12	0.12	0	0	0	0	0	0	0	0
3/19/2025 21:25	64802	MONE_T2	82	97	15	0.3	0.39	0.09	0	0	0	0	0	0	0	0
3/19/2025 21:25	64801	MONE_T2	116	148	32	0.3	0.39	0.09	0	0	0	0	0	0	0	0
3/19/2025 21:25	57205	ROSS_T1	11	44	33	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:25	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:25	52006	LING_T2	2	2	0	1.3	1.45	0.15	0	0	0	0	0	0	0	0
3/19/2025 21:25	67601	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:25	61801	EELI_T2	0	1	1	0	0.1	0.1	-0.55	-0.58	0	0	0	0	0	0
3/19/2025 21:25	63804	HEMP_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:25	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:25	57201	ROSS_T1	204	261	57	0.39	0.41	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:25	42902	MIDD_T2	0	0	0	0	0	0	-2.4	-2.24	2	2	0	1200	1200	0
3/19/2025 21:25	53901	HALI_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:25	57402	SPAN_T2	46	88	42	0.12	0.14	0.02	-0.62	-0.61	0	0	0	0	0	0
3/19/2025 21:25	52401	GRPA_T2	0	1	1	0	0.2	0.2	-0.82	-0.73	0	0	0	0	0	0
3/19/2025 21:25	60501	NMAN_T2	176	253	77	0.29	0.37	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:25	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:25	52101	MEIS_T1	1	1	0	1.5	1.4	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:25	59201	THOM_T1	13	21	8	0.32	0.51	0.19	0	0	0	0	0	0	0	0
3/19/2025 21:25	46901	MNTG_T2	0	0	0	0	0	0	-0.27	-0.4	1	1	0	1200	1200	0
3/19/2025 21:25	51108	CARL_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:25	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:25	54502	ENOL_T2	1	1	0	0.4	0.7	0.3	-1.42	-1.42	0	0	0	0	0	0
3/19/2025 21:25	53903	HALI_T2	2	2	0	1.35	1.3	-0.05	-0.19	-0.2	0	0	0	0	0	0
3/19/2025 21:25	52403	GRPA_T2	5	6	1	0.12	0.23	0.11	0	0	0	0	0	0	0	0
3/19/2025 21:25	57602	RUTH_T2	0	0	0	0	0	0	0.03	-0.03	0	0	0	0	0	0
3/19/2025 21:25	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/19/2025 21:25	66703	STRA_T1	4	67	63	0.4	0.2	-0.2	-0.45	-0.46	0	0	0	0	0	0
3/19/2025 21:25	62602	ENGL_T1	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/19/2025 21:25	58201	NEWV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:25	54505	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:25	66903	SHIL_T2	0	0	0	0	0	0	-1.3	-1.31	0	0	0	0	0	0
3/19/2025 21:25	59202	THOM_T1	118	266	148	0.19	0.37	0.18	0	0	0	0	0	0	0	0
3/19/2025 21:25	51101	CARL_T1	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:25	51701	OBER_T2	1	1	0	5.4	5.3	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:25	52004	LING_T2	3	3	0	4.47	4.57	0.1	0.04	0.03	0	0	0	0	0	0
3/19/2025 21:25	52002	LING_T2	0	1	1	0	1.2	1.2	0	0	0	0	0	0	0	0
3/19/2025 21:25	44301	BEAV_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
3/19/2025 21:25	52402	GRPA_T2	5	5	0	1.04	1.02	-0.02	0	0	0	0	0	0	0	0
3/19/2025 21:25	58102	NEKI_T1	1	2	1	1.5	0.85	-0.65	0.1	0.2	0	0	0	0	0	0
3/19/2025 21:25	15404	WALL_T1	0	0	0	0	0	0	-0.4	-0.41	0	0	0	0	0	0
3/19/2025 21:25	57203	ROSS_T1	514	683	169	0.18	0.2	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:25	58202	NEWV_T1	7	8	1	0.43	1	0.57	-0.06	-0.22	0	0	0	0	0	0
3/19/2025 21:25	42903	MIDD_T2	0	0	0	0	0	0	-0.36	-0.37	0	0	0	0	0	0
3/19/2025 21:25	51703	OBER_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:25	51107	CARL_T1	137	159	22	0.3	0.3	0	0	0	0	0	0	0	0	0
3/19/2025 21:25	63802	HEMP_T1	0	0	0	0	0	0	0.08	0.06	0	0	0	0	0	0
3/19/2025 21:25	59402	RFLD_T2	28	17	-11	0.24	0.27	0.03	-0.45	-0.45	0	0	0	0	0	0
3/19/2025 21:25	42802	SELI_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:25	66502	SMAN_T2	0	0	0	0	0	0	-0.5	-0.44	0	0	0	0	0	0
3/19/2025 21:26	53901	HALI_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:26	61101	BERK_T5	1	3	2	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:26	51108	CARL_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:26	57002	WHHI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:26	40504	CRES_T1	76	153	77	0.27	0.29	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:26	62105	ELAN_T1	140	205	65	0.14	0.18	0.04	0.33	0.29	0	0	0	0	0	0
3/19/2025 21:26	58705	ROSE_T2	5	5	0	3.48	3.6	0.12	0	0	0	0	0	0	0	0
3/19/2025 21:26	53903	HALI_T2	2	2	0	1.35	1.3	-0.05	0	0	0	0	0	0	0	0
3/19/2025 21:26	61102	BERK_T5	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:26	51109	CARL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:26	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:26	57003	WHHI_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:26	42903	MIDD_T2	0	0	0	0	0	0	-0.72	-0.74	0	0	0	0	0	0
3/19/2025 21:26	46504	LOMA_T1	2	2	0	0.65	0.8	0.15	0	0	0	0	0	0	0	0
3/19/2025 21:26	57006	WHHI_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:26	62102	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:26	58401	MORO_T1	0	0	0	0	0	0	-2.48	-2.4	2	2	0	1200	1200	0
3/19/2025 21:26	59202	THOM_T1	118	266	148	0.19	0.37	0.18	0	0	0	0	0	0	0	0
3/19/2025 21:26	51101	CARL_T1	1	1	0	4.9	4.8	-0.1	-1.34	-1.39	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 21:26	51102	CARL_T1	109	99	-10	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
3/19/2025 21:26	61502	EPET_T1	65	143	78	0.19	0.25	0.06	0	0	0	0	0	0	0	0
3/19/2025 21:26	46506	LOHA_T1	4	3	-1	3.6	4.53	0.93	0	0	0	0	0	0	0	0
3/19/2025 21:26	64101	REFR_T1	0	0	0	0	0	0	167.92	167.92	0	0	0	0	0	0
3/19/2025 21:26	62106	ELAN_T1	14	46	32	0.14	0.16	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:26	67605	WARW_T1	17	21	4	0.44	0.45	0.01	-1.01	-0.98	0	0	0	0	0	0
3/19/2025 21:26	51301	WIND_T1	0	0	0	0	0	0	0.26	0.23	0	0	0	0	0	0
3/19/2025 21:26	58701	ROSE_T2	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
3/19/2025 21:26	51107	CARL_T1	137	159	22	0.3	0.3	0	0	0	0	0	0	0	0	0
3/19/2025 21:26	57403	SPAN_T1	1	0	-1	0.5	0	-0.5	-0.08	-0.09	0	0	0	0	0	0
3/19/2025 21:26	57401	SPAN_T1	2	2	0	0.9	1.1	0.2	0.17	0.24	0	0	0	0	0	0
3/19/2025 21:26	40503	CRES_T1	2	8	6	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/19/2025 21:26	46503	LOHA_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
3/19/2025 21:26	57602	RUTH_T2	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
3/19/2025 21:26	59201	THOM_T1	13	21	8	0.32	0.51	0.19	0	0	0	0	0	0	0	0
3/19/2025 21:26	61103	BERK_T5	1	12	11	0.1	0.12	0.02	-0.01	-0.01	0	0	0	0	0	0
3/19/2025 21:26	54601	SUMM_T2	6	10	4	0.62	0.7	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:26	40505	CRES_T1	55	69	14	0.19	0.26	0.07	0.13	0.11	0	0	0	0	0	0
3/19/2025 21:26	62101	ELAN_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:26	62103	ELAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:26	61505	EPET_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:27	57205	ROSS_T1	11	44	33	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:27	67402	WAKE_T2	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
3/19/2025 21:27	63804	HEMP_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:27	46503	LOHA_T1	0	0	0	0	0	0	-0.64	-0.63	0	0	0	0	0	0
3/19/2025 21:27	57203	ROSS_T1	514	683	169	0.18	0.2	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:27	66504	SMAN_T2	0	0	0	0	0	0	-0.77	-0.74	0	0	0	0	0	0
3/19/2025 21:27	54505	ENOL_T2	1	1	0	0.6	0.9	0.3	-1.45	-1.44	1	1	0	600	600	0
3/19/2025 21:27	63501	HEID_TBK1-2	2	38	36	0.8	0.37	-0.43	0.33	0.21	0	0	0	0	0	0
3/19/2025 21:27	66505	SMAN_T2	3	3	0	1.3	1.83	0.53	0	0	0	0	0	0	0	0
3/19/2025 21:27	67602	WARW_T2	0	0	0	0	0	0	1.25	1.27	1	1	0	300	300	0
3/19/2025 21:27	63801	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:27	66903	SHIL_T2	0	0	0	0	0	0	-1.3	-1.31	0	0	0	0	0	0
3/19/2025 21:27	64801	MONE_T2	116	148	32	0.3	0.39	0.09	0	0	0	0	0	0	0	0
3/19/2025 21:27	67401	WAKE_T2	1	11	10	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/19/2025 21:27	67502	WEWI_T2	0	49	49	0	0.15	0.15	0	0	0	0	0	0	0	0
3/19/2025 21:27	46504	LOHA_T1	2	2	0	0.65	0.8	0.15	0	0	0	0	0	0	0	0
3/19/2025 21:27	46506	LOHA_T1	4	3	-1	3.6	4.53	0.93	0	0	0	0	0	0	0	0
3/19/2025 21:27	54502	ENOL_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:27	57201	ROSS_T1	204	261	57	0.39	0.41	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:27	64904	MILL_T1	0	0	0	0	0	0	0.35	0.3	0	0	0	0	0	0
3/19/2025 21:27	51303	WIND_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:27	64802	MONE_T2	82	97	15	0.3	0.39	0.09	0.09	0.19	0	0	0	0	0	0
3/19/2025 21:27	40101	HUNT_T2	4	0	-4	0.13	0	-0.13	-1.85	-1.89	0	0	0	0	0	0
3/19/2025 21:28	55002	NEWP_T1	6	0	-6	0.4	0.63	0.23	0	0	0	0	0	0	0	0
3/19/2025 21:28	57401	SPAN_T1	2	2	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:28	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:28	67605	WARW_T1	17	21	4	0.44	0.45	0.01	0	0	0	0	0	0	0	0
3/19/2025 21:28	67604	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:28	62106	ELAN_T1	14	46	32	0.14	0.16	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:28	66502	SMAN_T2	0	0	0	0	0	0	-0.25	-0.22	0	0	0	0	0	0
3/19/2025 21:28	51101	CARL_T1	1	1	0	4.9	4.8	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:28	63602	LETO_T1	0	2	2	0	0.1	0.1	-0.64	-0.64	0	0	0	0	0	0
3/19/2025 21:28	67402	WAKE_T2	0	0	0	0	0	0	0.09	0.11	0	0	0	0	0	0
3/19/2025 21:28	52001	LING_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
3/19/2025 21:28	58401	MORO_T1	0	0	0	0	0	0	-1.24	-1.2	1	1	0	600	600	0
3/19/2025 21:28	64203	KINZ_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
3/19/2025 21:28	59202	THOM_T1	118	266	148	0.19	0.37	0.18	0	0	0	0	0	0	0	0
3/19/2025 21:28	63804	HEMP_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:28	51306	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:28	51108	CARL_T1	2	0	-2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:28	55001	NEWP_T1	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
3/19/2025 21:28	64201	KINZ_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
3/19/2025 21:28	62605	ENGL_T1	0	0	0	0	0	0	-0.94	-0.96	0	0	0	0	0	0
3/19/2025 21:28	51102	CARL_T1	109	99	-10	0.26	0.22	-0.04	0	0	0	0	0	0	0	0
3/19/2025 21:28	63501	HEID_TBK1-2	2	38	36	0.8	0.37	-0.43	0.33	0.21	0	0	0	0	0	0
3/19/2025 21:28	60501	NMAN_T2	176	253	77	0.29	0.37	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:28	59302	MCAL_T1	11	19	8	0.67	0.43	-0.24	0	0	0	0	0	0	0	0
3/19/2025 21:28	63601	LETO_T1	0	5	5	0	0.34	0.34	0	0	0	0	0	0	0	0
3/19/2025 21:28	57403	SPAN_T1	1	0	-1	0.5	0	-0.5	-0.08	-0.09	0	0	0	0	0	0
3/19/2025 21:28	64101	REFR_T1	0	0	0	0	0	0	167.92	167.92	0	0	0	0	0	0
3/19/2025 21:28	58402	MORO_T1	0	0	0	0	0	0	0.32	0.32	1	1	0	900	900	0
3/19/2025 21:28	62102	ELAN_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:28	64202	KINZ_T1	2	3	1	0.35	0.6	0.25	0	0	0	0	0	0	0	0
3/19/2025 21:28	59201	THOM_T1	13	21	8	0.32	0.51	0.19	0	0	0	0	0	0	0	0
3/19/2025 21:28	59301	MCAL_T1	704	578	-126	0.52	0.51	-0.01	0	0	0	0	0	0	0	0
3/19/2025 21:28	63801	HEMP_T1	0	0	0	0	0	0	0.14	0.09	0	0	0	0	0	0
3/19/2025 21:28	67401	WAKE_T2	1	11	10	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/19/2025 21:28	52204	DEVO_T2	2	1	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
3/19/2025 21:28	44301	BEAV_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
3/19/2025 21:28	62103	ELAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:28	51109	CARL_T1	1	0	-1	0.1	0	-0.1	0.24	0.23	0	0	0	0	0	0
3/19/2025 21:28	64204	KINZ_T1	1	1	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
3/19/2025 21:28	66505	SMAN_T2	3	3	0	1.3	1.83	0.53	0	0	0	0	0	0	0	0
3/19/2025 21:28	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
3/19/2025 21:28	52202	DEVO_T2	1	0	-1	8.4	0	-8.4	-0.85	0.43	0	0	0	0	0	0
3/19/2025 21:28	51107	CARL_T1	137	159	22	0.3	0.3	0	0	0	0	0	0	0	0	0
3/19/2025 21:28	62101	ELAN_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:28	62105	ELAN_T1	140	205	65	0.14	0.18	0.04	0	0	0	0	0	0	0	0
3/19/2025 21:28	51702	OBER_T1	2	2	0	3.5	3.59	0.05	-1.64	-1.61	0	0	0	0	0	0
3/19/2025 21:28	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:29	62102	ELAN_T1	0	2	2	0	0.1	0.1	0.48	0.46	0	0	0	0	0	0
3/19/2025 21:29	45501	DERR_T2	0	0	0	0	0	0	-0.13	-0.14	2	2	0	1800	1800	0
3/19/2025 21:29	52402	GRPA_T2	5	5	0	1.04	1.02	-0.02	0	0	0	0	0	0	0	0
3/19/2025 21:29	67602	WARW_T2	0	0	0	0	0	0	1.25	1.27	1	1	0	300	300	0
3/19/2025 21:29	54502	ENOL_T2	1	1	0	0.4	0.7	0.3	-1.42	-1.42	0	0	0	0	0	0
3/19/2025 21:29	57401	SPAN_T1	2	2	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:29	53903	HALI_T2	2	2	0	1.35	1.3	-0.05	-0.19	-0.2	0	0	0	0	0	0
3/19/2025 21:29	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:29	64201	KINZ_T1	1	2	1	0.7	0.45	-0.25	0	0	0	0	0	0	0	0
3/19/2025 21:29	62606	ENGL_T1	0	0	0	0	0	0	-0.71	-0.68	0	0	0	0	0	0
3/19/2025 21:29	60803	BUCK_T1	2	12	10	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/19/2025 21:29	66502	SMAN_T2	0	0	0	0	0	0	-0.25	-0.22	0	0	0	0	0	0
3/19/2025 21:29	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:29	60801	BUCK_T1	25	39	14	0.17	0.19	0.02	-0.31	-0.31	0	0	0	0	0	0
3/19/2025 21:29	62101	ELAN_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:29	55002	NEWP_T1	6	6	0	0.4	0.63	0.23	-0.32	-0.32	0	0	0	0	0	0
3/19/2025 21:29	60104	CDCA_T2	4	4	0	0.35	0.48	0.13	0	0	0	0	0	0	0	0
3/19/2025 21:29	66505	SMAN_T2	3	3	0	1.3	1.83	0.53	0	0	0	0	0	0	0	0
3/19/2025 21:29	62105	ELAN_T1	140	205	65	0.14	0.18	0.04	0.33	0.29	0	0	0	0	0	0
3/19/2025 21:29	57203	ROSS_T1	514	683	169	0.18	0.2	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:29	66503	SMAN_T2	0	0	0	0	0	0	0.24	0.27	0	0	0	0	0	0
3/19/2025 21:29	61502	EPET_T1	65	143	78	0.19	0.25	0.06	-1.35	-1.32	0	0	0	0	0	0
3/19/2025 21:29	58401	MORO_T1	0	0	0	0	0	0	-3.72	-3.6	3	3	0	1800	1800	0
3/19/2025 21:29	61501	EPET_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:29	57201	ROSS_T1	204	261	57	0.39	0.41	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:29	55001	NEWP_T1	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
3/19/2025 21:29	57403	SPAN_T1	1	0	-1	0.5	0	-0.5	-0.08	-0.09	0	0	0	0	0	0
3/19/2025 21:29	64204	KINZ_T1	1	1	0	1.5	1.1	-0.4	0	0	0	0	0	0	0	0
3/19/2025 21:29	53901	HALI_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:29	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:29	60501	NMAN_T2	176	253	77	0.29	0.37	0.08	0	0	0	0	0	0	0	0
3/19/2025 21:29	57205	ROSS_T1	11	44	33	0.1	0.12	0.02	0	0.01	0	0	0	0	0	0
3/19/2025 21:29	63501	HEID_TBK1-2	2	38	36	0.8	0.37	-0.43	0.33	0.21	0	0	0	0	0	0
3/19/2025 21:29	67605	WARW_T1	17	21	4	0.44	0.45	0.01	-1.01	-0.98	0	0	0	0	0	0
3/19/2025 21:29	67901	WNHO_T2	0	0	0	0	0	0	-0.63	-0.6	1	1	0	900	900	0
3/19/2025 21:29	64203	KINZ_T1	0	0	0	0	0	0	0.06	0.07	0	0	0	0	0	0
3/19/2025 21:29	44301	BEAV_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
3/19/2025 21:29	54505	ENOL_T2	1	1	0	0.6	0.9	0.3	0	0	0	0	0	0	0	0
3/19/2025 21:29	44302	BEAV_T2	0	0	0	0	0	0	0.22	0.21	0	0	0	0	0	0
3/19/2025 21:29	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:29	59402	RFLD_T2	28	17	-11	0.24	0.27	0.03	-0.45	-0.45	0	0	0	0	0	0
3/19/2025 21:29	63804	HEMP_T1	1	1	0	5.7	5.5	-0.2	0.68	0.64	0	0	0	0	0	0
3/19/2025 21:29	61304	EARL_T1	0	0	0	0	0	0	-0.92	-1.06	0	0	0	0	0	0
3/19/2025 21:29	60502	NMAN_T2	0	0	0	0	0	0	-1.4	-1.4	0	0	0	0	0	0
3/19/2025 21:29	64702	LITI_T2	0	0	0	0	0	0	-0.69	-0.71	0	0	0	0	0	0
3/19/2025 21:29	60103	CDCA_T2	0	0	0	0	0	0	-0.71	-0.73	0	0	0	0	0	0
3/19/2025 21:29	64202	KINZ_T1	2	3	1	0.35	0.6	0.25	0	0	0	0	0	0	0	0
3/19/2025 21:29	62103	ELAN_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:29	62106	ELAN_T1	14	46	32	0.14	0.16	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:29	52403	GRPA_T2	5	6	1	0.12	0.23	0.11	-0.59	-0.64	0	0	0	0	0	0
3/19/2025 21:29	15104	UPHA_T2	0	0	0	0	0	0	0.3	0.26	0	0	0	0	0	0
3/19/2025 21:29	65904	SAKR_T2	0	0	0	0	0	0	-1.77	-1.77	2	2	0	900	900	0
3/19/2025 21:30	52204	DEVO_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
3/19/2025 21:30	58402	MORO_T1	0	0	0	0	0	0	0.32	0.32	1	1	0	900	900	0
3/19/2025 21:30	53902	HALI_T2	1	1	0	5.6	5.6	0	-0.29	-0.33	0	0	0	0	0	0
3/19/2025 21:30	55002	NEWP_T1	6	0	-6	0.62	0.97	0.35	0	0	0	0	0	0	0	0
3/19/2025 21:30	65903	SAKR_T2	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:30	52202	DEVO_T2	0	0	0	0	0	0	-2.54	1.3	0	0	0	0	0	0
3/19/2025 21:30	56501	ROCK_T2	2	2	0	0.55	0.8	0.25	0	0	0	0	0	0	0	0
3/19/2025 21:30	52402	GRPA_T2	5	5	0	0.86	1.22	0.36	0	0	0	0	0	0	0	0
3/19/2025 21:30	67605	WARW_T1	21	40	19	0.42	0.48	0.06	0	0	0	0	0	0	0	0
3/19/2025 21:30	57602	RUTH_T2	0	0	0	0	0	0	0.02	-0.02	0	0	0	0	0	0
3/19/2025 21:30	52001	LING_T1	0	0	0	0	0	0	0.04	0.03	0	0	0	0	0	0
3/19/2025 21:30	64704	LITI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:30	51101	CARL_T1	1	1	0	5	4.8	-0.2	0	0	0	0	0	0	0	0
3/19/2025 21:30	56504	ROCK_T2	0	0	0	0	0	0	-0.29	-0.27	0	0	0	0	0	0
3/19/2025 21:30	53903	HALI_T2	2	2	0	1.3	1.3	0	0	0	0	0	0	0	0	0
3/19/2025 21:30	52401	GRPA_T2	1	7	6	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
3/19/2025 21:30	51702	OBER_T1	2	2	0	3.55	3.6	0.05	-1.64	-1.61	0	0	0	0	0	0
3/19/2025 21:30	67401	WAKE_T2	2	12	10	0.1	0.14	0.04	-1.96	-2	0	0	0	0	0	0
3/19/2025 21:30	67201	TEHI_T1	0	0	0	0	0	0	-1.36	-1.43	2	2	0	1800	1800	0
3/19/2025 21:30	51108	CARL_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/19/2025 21:30	57205	ROSS_T1	40	71	31	0.12	0.14	0.02	0	0	0	0	0	0	0	0
3/19/2025 21:30	53901	HALI_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/19/2025 21:30	57201	ROSS_T1	256	278	22	0.42	0.43	0.01	0	0	0	0	0	0	0	0
3/19/2025 21:30	57203	ROSS_T1	598	816	218	0.2	0.24	0.04	0.25	0.25	0	0	0	0	0	0
3/19/2025 21:30	51102	CARL_T1	94	113	19	0.19	0.25	0.06	0	0	0	0	0	0	0	0
3/19/2025 21:30	60101	COCA_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
3/19/2025 21:30	52404	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:30	65902	SAKR_T2	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
3/19/2025 21:30	55001	NEWP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:30	67901	WNHO_T2	0	0	0	0	0	0	-0.63	-0.6	1	1	0	900	900	0
3/19/2025 21:30	52403	GRPA_T2	6	5	-1	0.2	0.34	0.14	-0.59	-0.64	0	0	0	0	0	0
3/19/2025 21:30	51107	CARL_T1	151	182	31	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/19/2025 21:30	51109	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:31	52402	GRPA_T2	5	5	0	0.86	1.22	0.36	0	0	0	0	0	0	0	0
3/19/2025 21:31	52403	GRPA_T2	6	5	-1	0.2	0.34	0.14	-0.59	-0.64	0	0	0	0	0	0
3/19/2025 21:31	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:31	52401	GRPA_T2	1	7	6	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
3/19/2025 21:31	52404	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/19/2025 21:31	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:31	67605	WARW_T1	21	40	19	0.42	0.48	0.06	-1.01	-0.98	0	0	0	0	0	0
3/19/2025 21:31	52204	DEVO_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
3/19/2025 21:32	66504	SMAN_T2	0	1	1	0	0.2	0.2	-0.77	-0.74	0	0	0	0	0	0
3/19/2025 21:32	60104	COCA_T2	4	4	0	0.2	0.48	0.28	0	0	0	0	0	0	0	0
3/19/2025 21:32	66505	SMAN_T2	3	3	0	1.73	2	0.27	0	0	0	0	0	0	0	0
3/19/2025 21:32	57601	RUTH_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:32	60103	COCA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:32	66502	SMAN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:32	66501	SMAN_T2	0	4	4	0	0.1	0.1	0	0	0	0	0	0	0	0
3/19/2025 21:33	47101	MARL_T1	0	0	0	0	0	0	-1.35	-1.39	0	0	0	0	0	0
3/19/2025 21:33	55105	WERT_T1	0	0	0	0	0	0	-0.81	-0.78	1	1	0	900	900	0
3/19/2025 21:34	16301	ALPA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:35	62105	ELAN_T1	160	203	43	0.17	0.18	0.01	0	0	0	0	0	0	0	0
3/19/2025 21:35	62106	ELAN_T1	27	46	19	0.14	0.16	0.02	-0.04	-0.04	0	0	0	0	0	0
3/19/2025 21:35	62101	ELAN_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/19/2025 21:35	62103	ELAN_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/19/2025 21:35	62102	ELAN_T1	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/19/2025 21:35	16301	ALPA_T1	0	0	0	0	0	0	-0.2	-0.21	0	0	0	0	0	0
3/19/2025 21:36	63801	HEMP_T1	0	0	0	0	0	0	0.09	-0.07	0	0	0	0	0	0
3/19/2025 21:36	12003	HATF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:36	63804	HEMP_T1	1	1	0	5.5	5.4	-0.1	0	0	0	0	0	0	0	0
3/19/2025 21:37	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:37	52204	DEVO_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
3/19/2025 21:38	59201	THOM_T1	17	22	5	0.34	0.71	0.37	0	0	0	0	0	0	0	0
3/19/2025 21:38	59202	THOM_T1	192	316	124	0.23	0.56	0.33	0	0	0	0	0	0	0	0
3/19/2025 21:43	62605	ENGL_T1	0	0	0	0	0	0	-0.96	-0.97	0	0	0	0	0	0
3/19/2025 21:46	51304	WIND_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 21:48	47101	MARL_T1	0	0	0	0	0	0	-1.39	-1.41	0	0	0	0	0	0
3/19/2025 21:53	64904	MILL_T1	0	0	0	0	0	0	0.28	0.25	0	0	0	0	0	0
3/19/2025 21:55	53102	WTWN_T1	0	8	8	0	0.13	0.13	0	0	0	0	0	0	0	0
3/19/2025 21:56	52202	DEVO_T2	0	0	0	0	0	0	0.44	0.42	0	0	0	0	0	0
3/19/2025 21:58	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 22:04	62106	ELAN_T1	7	0	-7	0.14	0	-0.14	-0.05	-0.03	0	0	0	0	0	0
3/19/2025 22:04	64202	KINZ_T1	3	3	0	1	1.17	0.17	0	0	0	0	0	0	0	0
3/19/2025 22:04	62101	ELAN_T1	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/19/2025 22:04	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 22:04	64201	KINZ_T1	6	6	0	0.3	0.32	0.02	0	0	0	0	0	0	0	0
3/19/2025 22:04	62105	ELAN_T1	55	0	-55	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/19/2025 22:04	64204	KINZ_T1	10	1	-9	0.23	1.1	0.87	0	0	0	0	0	0	0	0
3/19/2025 22:12	27502	WEIS_T2	0	0	0	0	0	0	-0.66	-0.68	0	0	0	0	0	0
3/19/2025 22:16	51304	WIND_T2	0	0	0	0	0	0	0.37	0.33	0	0	0	0	0	0
3/19/2025 22:18	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 22:18	51109	CARL_T1	0	0	0	0	0	0	0.2	-1.11	0	1	1	0	1200	1200
3/19/2025 22:18	51101	CARL_T1	1	1	0	5.4	5.1	-0.3	0	0	0	0	0	0	0	0
3/19/2025 22:18	51102	CARL_T1	0	20	20	0	0.15	0.15	0	0	0	0	0	0	0	0
3/19/2025 22:18	28102	TWLA_T2	21	24	3	0.54	0.58	0.04	0.15	0.15	0	0	0	0	0	0
3/19/2025 22:18	52202	DEVO_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
3/19/2025 22:18	51107	CARL_T1	12	100	88	0.16	0.23	0.07	0	0	0	0	0	0	0	0
3/19/2025 22:19	52202	DEVO_T2	0	0	0	0	0	0	0.42	0.41	0	0	0	0	0	0
3/19/2025 22:33	16102	BING_T2	16	15	-1	0.19	0.18	-0.01	-0.3	-0.29	0	0	0	0	0	0
3/19/2025 22:41	13905	SEID_T1	0	0	0	0	0	0	-1.18	-1.18	1	1	0	1200	1200	0
3/19/2025 22:48	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 22:48	67605	WARW_T1	16	19	3	0.56	0.52	-0.04	0	0	0	0	0	0	0	0
3/19/2025 22:52	10901	COOP_T2	0	0	0	0	0	0	0.53	0.51	0	0	0	0	0	0
3/19/2025 22:52	10903	COOP_T2	102	103	1	0.3	0.31	0.01	0	0	0	0	0	0	0	0
3/19/2025 23:05	52006	LING_T2	2	2	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
3/19/2025 23:05	52002	LING_T2	1	1	0	1.6	1.7	0.1	-0.43	-0.35	0	0	0	0	0	0
3/19/2025 23:05	52004	LING_T2	3	3	0	4.53	4.6	0.07	0	0	0	0	0	0	0	0
3/19/2025 23:11	52202	DEVO_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
3/19/2025 23:25	50626	CCTY_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2025 23:25	50623	CCTY_T2	6	6	0	5.82	6.25	0.43	0	0	0	0	0	0	0	0
3/19/2025 23:25	50625	CCTY_T2	5	6	1	4.02	3.32	-0.7	0	0	0	0	0	0	0	0
3/19/2025 23:25	50624	CCTY_T2	2	2	0	5.9	5.9	0	0	0	0	0	0	0	0	0
3/20/2025 0:30	51101	CARL_T1	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
3/20/2025 0:30	51107	CARL_T1	5	71	66	0.1	0.19	0.09	0	0	0	0	0	0	0	0
3/20/2025 2:45	15103	UPHA_T2	0	1	1	0	0	0	0.17	0.18	0	0	0	0	0	0
3/20/2025 7:56	51109	CARL_T1	0	0	0	0	0	0	-1.02	-1.07	1	1	0	1200	1200	0
3/20/2025 7:56	51101	CARL_T1	1	1	0	5.6	5.1	-0.5	0	0	0	0	0	0	0	0
3/20/2025 7:56	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 7:56	46801	HEPB_T2	3	29	26	0.73	0.3	-0.43	0	0	0	0	0	0	0	0
3/20/2025 7:56	51102	CARL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/20/2025 7:56	46803	HEPB_T2	0	13	13	0	0.16	0.16	0	0	0	0	0	0	0	0
3/20/2025 7:56	51108	CARL_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/20/2025 7:57	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 8:00	64802	MONE_T2	61	111	50	0.29	0.33	0.04	0	0	0	0	0	0	0	0
3/20/2025 8:00	53501	EVIL_T2	3	2	-1	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
3/20/2025 8:00	64801	MONE_T2	127	152	25	0.37	0.49	0.12	0	0	0	0	0	0	0	0
3/20/2025 8:01	64902	MILL_T2	0	0	0	0	0	0	-0.81	-0.81	1	1	0	900	900	0
3/20/2025 8:07	65904	SAKR_T2	0	0	0	0	0	0	-1.85	-1.84	3	3	0	1500	1500	0
3/20/2025 8:07	67001	STHI_T2	159	15	-144	0.11	0.13	0.02	0	0	0	0	0	0	0	0
3/20/2025 8:07	67002	STHI_T2	16	1	-15	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
3/20/2025 8:09	67001	STHI_T2	159	15	-144	0.11	0.13	0.02	0	0	0	0	0	0	0	0
3/20/2025 8:09	67002	STHI_T2	16	1	-15	0.11	0.1	-0.01	0.58	0.56	0	0	0	0	0	0
3/20/2025 8:10	51102	CARL_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/20/2025 8:10	51104	CARL_T1	0	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0
3/20/2025 8:10	51109	CARL_T1	0	0	0	0	0	0	-1.07	-1.09	1	1	0	1200	1200	0
3/20/2025 8:10	51108	CARL_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/20/2025 8:10	46203	DANV_T2	204	320	116	1.02	0.94	-0.08	-1.12	-1.1	0	0	0	0	0	0
3/20/2025 8:10	51101	CARL_T1	1	1	0	5.3	5	-0.3	0	0	0	0	0	0	0	0
3/20/2025 8:12	51102	CARL_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/20/2025 8:12	51109	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 8:12	51104	CARL_T1	0	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0
3/20/2025 8:12	46203	DANV_T2	204	320	116	1.02	0.94	-0.08	-1.12	-1.1	0	0	0	0	0	0
3/20/2025 8:12	51101	CARL_T1	1	1	0	5.3	5	-0.3	0	0	0	0	0	0	0	0
3/20/2025 8:12	51108	CARL_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/20/2025 8:14	40501	CRES_T2	10	9	-1	0.29	0.32	0.03	0	0	0	0	0	0	0	0
3/20/2025 8:20	55002	NEWP_T1	6	6	0	1.02	1.12	0.1	-0.26	-0.27	0	0	0	0	0	0
3/20/2025 8:21	46004	BERW_T2	0	2	2	0	0	0	-0.27	-0.25	0	0	0	0	0	0
3/20/2025 8:22	46004	BERW_T2	0	2	2	0	0	0	-0.27	-0.25	0	0	0	0	0	0
3/20/2025 8:23	46004	BERW_T2	0	2	2	0	0	0	-0.27	-0.25	0	0	0	0	0	0
3/20/2025 8:23	46002	BERW_T2	0	0	0	0	0	0	-0.72	-0.65	1	1	0	900	900	0
3/20/2025 8:26	51108	CARL_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/20/2025 8:26	51102	CARL_T1	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
3/20/2025 8:26	51101	CARL_T1	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
3/20/2025 8:26	53502	EVIL_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 8:26	53501	EVIL_T2	2	2	0	0.55	0.9	0.35	0	0	0	0	0	0	0	0
3/20/2025 8:26	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 8:27	51108	CARL_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/20/2025 8:27	51102	CARL_T1	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
3/20/2025 8:27	51101	CARL_T1	1	1	0	5.1	5	-0.1	-1.82	-1.15	1	0	-1	600	0	-600
3/20/2025 8:28	51108	CARL_T1	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/20/2025 8:28	51102	CARL_T1	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
3/20/2025 8:28	53601	DALM_T2	1	1	0	0.9	0.8	-0.1	0.12	0.16	0	0	0	0	0	0
3/20/2025 8:28	51101	CARL_T1	1	1	0	5.1	5	-0.1	0	0	0	0	0	0	0	0
3/20/2025 8:29	63305	GREE_T1	0	6	6	0	0.18	0.18	-1.19	-1.25	0	0	0	0	0	0
3/20/2025 8:30	63305	GREE_T1	5	6	1	0.12	0.16	0.04	-1.19	-1.25	0	0	0	0	0	0
3/20/2025 8:30	63303	GREE_T1	0	0	0	0	0	0	-0.1	-0.17	2	2	0	1800	1800	0
3/20/2025 8:31	41304	FISH_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 8:32	55002	NEWP_T1	6	7	1	1.12	0.71	-0.41	-0.27	-0.26	0	0	0	0	0	0
3/20/2025 8:32	55001	NEWP_T1	0	14	14	0	0.24	0.24	0	0	0	0	0	0	0	0
3/20/2025 8:35	13904	SEID_T1	0	0	0	0	0	0	0.24	0.26	0	0	0	0	0	0
3/20/2025 8:35	13905	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 8:38	13904	SEID_T1	0	0	0	0	0	0	0.13	0.13	0	0	0	0	0	0
3/20/2025 8:38	13905	SEID_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 8:39	51101	CARL_T1	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
3/20/2025 8:39	51109	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 8:39	51108	CARL_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/20/2025 8:39	51104	CARL_T1	1	0	-1	6.3	0	-6.3	0	0	0	0	0	0	0	0
3/20/2025 8:39	51102	CARL_T1	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/20/2025 8:42	51108	CARL_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/20/2025 8:42	41301	FISH_T1	2	2	0	2.15	2.5	0.35	0	0	0	0	0	0	0	0
3/20/2025 8:42	51109	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 8:42	51101	CARL_T1	1	1	0	5	5.2	0.2	0	0	0	0	0	0	0	0
3/20/2025 8:42	51104	CARL_T1	1	0	-1	6.3	0	-6.3	0	0	0	0	0	0	0	0
3/20/2025 8:42	51102	CARL_T1	2	2	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/20/2025 8:42	41303	FISH_T1	0	0	0	0	0	0	-0.47	-0.4	0	0	0	0	0	0
3/20/2025 8:43	40505	CRES_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
3/20/2025 8:44	40505	CRES_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
3/20/2025 8:51	67601	WARW_T2	0	0	0	0	0	0	-0.4	-0.47	0	0	0	0	0	0
3/20/2025 8:53	21203	ECAR_T1	0	5	5	0	0.2	0.2	-0.2	-0.22	0	0	0	0	0	0
3/20/2025 8:56	51101	CARL_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
3/20/2025 8:56	51108	CARL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/20/2025 8:56	62605	ENGL_T1	0	0	0	0	0	0	-0.93	-0.92	0	0	0	0	0	0
3/20/2025 8:56	51109	CARL_T1	0	0	0	0	0	0	-1.09	-1.09	1	1	0	1200	1200	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/20/2025 8:56	51102	CARL_T1	1	2	1	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/20/2025 8:56	62607	ENGL_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/20/2025 8:58	51101	CARL_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
3/20/2025 8:58	51108	CARL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/20/2025 8:58	51109	CARL_T1	0	0	0	0	0	0	-1.09	-1.09	1	1	0	1200	1200	0
3/20/2025 8:58	51102	CARL_T1	1	2	1	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/20/2025 8:59	63501	HEID_TBK1-2	1	2	1	1.4	0.85	-0.55	0.11	0.11	1	1	0	900	900	0
3/20/2025 9:00	63803	HEMP_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 9:00	63802	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 9:00	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 9:00	63804	HEMP_T1	1	5	4	5.8	1.16	-4.64	0	0	0	0	0	0	0	0
3/20/2025 9:01	63804	HEMP_T1	1	5	4	5.8	1.16	-4.64	0	0	0	0	0	0	0	0
3/20/2025 9:01	63501	HEID_TBK1-2	2	2	0	0.75	0.6	-0.15	0.11	0.11	1	1	0	900	900	0
3/20/2025 9:01	63801	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 9:01	63803	HEMP_T1	0	5	5	0	0.1	0.1	0.39	0.41	0	0	0	0	0	0
3/20/2025 9:02	63501	HEID_TBK1-2	2	2	0	0.75	0.6	-0.15	0.22	0.22	2	2	0	1800	1800	0
3/20/2025 9:03	43105	SMIL_T2	12	15	3	0.26	0.35	0.09	0	0	0	0	0	0	0	0
3/20/2025 9:03	43103	SMIL_T2	18	20	2	0.57	0.84	0.27	0	0	0	0	0	0	0	0
3/20/2025 9:03	43102	SMIL_T2	6	5	-1	0.12	0.16	0.04	0	0	1	1	0	600	600	0
3/20/2025 9:03	43104	SMIL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 9:03	43108	SMIL_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/20/2025 9:08	60803	BUCK_T1	0	10	10	0	0.14	0.14	0	0	0	0	0	0	0	0
3/20/2025 9:08	60801	BUCK_T1	0	3	3	0	0.17	0.17	-0.09	-0.05	0	0	0	0	0	0
3/20/2025 9:09	40505	CRES_T1	0	0	0	0	0	0	0.2	0.25	0	0	0	0	0	0
3/20/2025 9:12	51108	CARL_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/20/2025 9:12	51101	CARL_T1	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
3/20/2025 9:12	51102	CARL_T1	2	4	2	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/20/2025 9:12	40505	CRES_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 9:12	51109	CARL_T1	0	0	0	0	0	0	-1.09	-1.09	1	1	0	1200	1200	0
3/20/2025 9:12	61001	DONV_T1	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
3/20/2025 9:16	43202	MVIL_T2	83	85	2	0.7	0.72	0.02	-0.64	-0.65	0	0	0	0	0	0
3/20/2025 9:19	15603	NSTR_T2	0	0	0	0	0	0	-0.65	-0.61	0	0	0	0	0	0
3/20/2025 9:22	51301	WIND_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 9:22	51305	WIND_T1	0	0	0	0	0	0	0.21	0.17	0	0	0	0	0	0
3/20/2025 9:22	51303	WIND_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 9:23	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 9:23	46203	DANV_T2	344	364	20	1.26	1.31	0.05	-1.11	-1.12	0	0	0	0	0	0
3/20/2025 9:23	46201	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/20/2025 9:24	51302	WIND_T2	0	0	0	0	0	0	-0.03	0	0	0	0	0	0	0
3/20/2025 9:25	67605	WARW_T1	21	15	-6	0.46	0.54	0.08	0	0	0	0	0	0	0	0
3/20/2025 9:26	46204	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 9:26	46201	DANV_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/20/2025 9:26	46203	DANV_T2	344	364	20	1.26	1.31	0.05	-1.11	-1.12	0	0	0	0	0	0
3/20/2025 9:30	53501	EVIL_T2	2	2	0	0.9	0.95	0.05	-0.4	-0.33	1	1	0	600	600	0
3/20/2025 9:32	13303	ORVI_T1	0	2	2	0	0.15	0.15	0.97	0.97	0	0	0	0	0	0
3/20/2025 9:34	58401	MORO_T1	0	0	0	0	0	0	-1.12	-1.16	1	1	0	600	600	0
3/20/2025 9:34	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 9:36	58401	MORO_T1	0	0	0	0	0	0	-1.12	-1.16	1	1	0	600	600	0
3/20/2025 9:37	27201	YATE_T1	10	10	0	5.82	5.72	-0.1	-2.25	-2.28	0	0	0	0	0	0
3/20/2025 9:37	67402	WAKE_T2	0	0	0	0	0	0	1	1	0	0	0	0	0	0
3/20/2025 9:37	60201	ATGL_T2	57	34	-23	0.2	0.17	-0.03	-0.13	-0.01	0	0	0	0	0	0
3/20/2025 9:38	67402	WAKE_T2	0	0	0	0	0	0	1	1	0	0	0	0	0	0
3/20/2025 9:41	60201	ATGL_T2	57	34	-23	0.2	0.17	-0.03	-0.13	-0.01	0	0	0	0	0	0
3/20/2025 9:41	40505	CRES_T1	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
3/20/2025 9:41	40504	CRES_T1	0	0	0	0	0	0	-0.54	-0.51	0	0	0	0	0	0
3/20/2025 9:43	40505	CRES_T1	0	0	0	0	0	0	0.22	0.16	0	0	0	0	0	0
3/20/2025 9:43	17802	GILB_T1	1	4	3	0.1	0.48	0.38	0.06	0.03	0	0	0	0	0	0
3/20/2025 9:44	46801	HEPB_T2	6	20	14	0.55	0.3	-0.25	0.48	0.48	0	0	0	0	0	0
3/20/2025 9:44	61002	DONV_T2	0	0	0	0	0	0	-1.4	-1.39	2	2	0	1200	1200	0
3/20/2025 9:44	40504	CRES_T1	0	0	0	0	0	0	-0.54	-0.51	0	0	0	0	0	0
3/20/2025 9:44	63501	HEID_TBK1-2	1	2	1	0.7	0.65	-0.05	0.18	-0.03	3	3	0	2700	2700	0
3/20/2025 9:44	46803	HEPB_T2	3	3	0	0.17	0.23	0.06	0	0	0	0	0	0	0	0
3/20/2025 9:45	43202	MVIL_T2	77	90	13	0.69	0.69	0	-0.65	-0.65	0	0	0	0	0	0
3/20/2025 9:46	63501	HEID_TBK1-2	1	10	9	0.6	0.27	-0.33	0.06	-0.01	1	1	0	900	900	0
3/20/2025 9:50	43202	MVIL_T2	77	90	13	0.69	0.69	0	-0.65	-0.65	0	0	0	0	0	0
3/20/2025 9:50	57403	SPAN_T1	0	8	8	0	0.31	0.31	0	0	0	0	0	0	0	0
3/20/2025 9:50	57401	SPAN_T1	5	32	27	0.42	0.37	-0.05	-0.44	-0.5	0	0	0	0	0	0
3/20/2025 9:51	57401	SPAN_T1	5	32	27	0.42	0.37	-0.05	-0.44	-0.5	0	0	0	0	0	0
3/20/2025 9:51	57403	SPAN_T1	0	8	8	0	0.31	0.31	0	0	0	0	0	0	0	0
3/20/2025 9:52	57401	SPAN_T1	5	32	27	0.42	0.37	-0.05	-1.5	-1.56	0	0	0	0	0	0
3/20/2025 9:52	57403	SPAN_T1	0	8	8	0	0.31	0.31	0	0	0	0	0	0	0	0
3/20/2025 9:55	10801	CHHI_T1	0	6	6	0	0.17	0.17	-1.44	-0.92	2	1	-1	1500	900	-600
3/20/2025 9:55	10805	CHHI_T2	1	1	0	6.5	6.3	-0.2	-1.76	-1.77	1	1	0	1200	1200	0
3/20/2025 9:58	15703	TANN_T2	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
3/20/2025 9:58	15702	TANN_T2	0	1	1	0	0.4	0.4	-0.49	-0.5	0	0	0	0	0	0
3/20/2025 10:00	57203	ROSS_T1	3	13	10	0.1	0.12	0.02	0.28	0.31	0	0	0	0	0	0
3/20/2025 10:00	63802	HEMP_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/20/2025 10:00	63804	HEMP_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
3/20/2025 10:00	57401	SPAN_T1	20	62	42	0.28	0.3	0.02	-2	-2.08	0	0	0	0	0	0
3/20/2025 10:00	67002	STHI_T2	38	288	250	0.18	0.19	0.01	0.56	0.61	0	0	0	0	0	0
3/20/2025 10:00	63801	HEMP_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/20/2025 10:00	55001	NEWP_T1	4	2	-2	0.45	0.55	0.1	0	0	0	0	0	0	0	0
3/20/2025 10:00	57403	SPAN_T1	2	29	27	0.4	0.21	-0.19	0	0	0	0	0	0	0	0
3/20/2025 10:00	57205	ROSS_T1	7	7	0	0.46	0.54	0.08	0	0	0	0	0	0	0	0
3/20/2025 10:00	53901	HALI_T2	1	1	0	1.1	1.1	0	-1.1	-1.05	0	0	0	0	0	0
3/20/2025 10:00	67503	WEWI_T2	0	1	1	0	0.2	0.2	-0.17	-0.17	0	0	0	0	0	0
3/20/2025 10:00	46901	MNTG_T2	0	0	0	0	0	0	-0.39	-0.22	1	1	0	1200	1200	0
3/20/2025 10:00	53903	HALI_T2	2	5	3	1.2	0.66	-0.54	0	0	0	0	0	0	0	0
3/20/2025 10:00	64902	MILL_T2	0	0	0	0	0	0	0.12	0.14	0	0	0	0	0	0
3/20/2025 10:00	67001	STHI_T2	275	458	183	0.16	0.26	0.1	0	0	0	0	0	0	0	0
3/20/2025 10:00	67502	WEWI_T2	19	8	-11	0.16	0.35	0.19	0	0	0	0	0	0	0	0
3/20/2025 10:00	53902	HALI_T2	1	2	1	5.8	3.05	-2.75	0	0	0	0	0	0	0	0
3/20/2025 10:00	46903	MNTG_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/20/2025 10:00	13303	ORVI_T1	2	1	-1	0.15	0.1	-0.05	0.93	0.93	0	0	0	0	0	0
3/20/2025 10:00	63803	HEMP_T1	1	8	7	0.4	0.26	-0.14	-0.04	-0.03	0	0	0	0	0	0
3/20/2025 10:00	28102	TWLA_T2	5	21	16	0.22	0.35	0.13	0.17	0.17	0	0	0	0	0	0
3/20/2025 10:00	40505	CRES_T1	0	1	1	0	0.1	0.1	0.32	0.41	0	0	0	0	0	0
3/20/2025 10:00	55002	NEWP_T1	6	12	6	0.82	1.07	0.25	-0.28	-0.28	0	0	0	0	0	0
3/20/2025 10:00	57201	ROSS_T1	119	156	37	0.22	0.26	0.04	0	0	0	0	0	0	0	0
3/20/2025 10:01	16902	MECK_T1	0	1	1	0	0.1	0.1	0.07	0.06	0	0	0	0	0	0
3/20/2025 10:01	16901	MECK_T1	2	4	2	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/20/2025 10:02	64801	MONE_T2	167	168	1	0.9	0.92	0.02	-0.02	-0.01	0	0	0	0	0	0
3/20/2025 10:02	64802	MONE_T2	148	151	3	0.71	0.71	0	0	0	0	0	0	0	0	0
3/20/2025 10:02	16901	MECK_T1	2	4	2	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/20/2025 10:02	16902	MECK_T1	0	1	1	0	0.1	0.1	0.07	0.06	0	0	0	0	0	0
3/20/2025 10:03	13302	ORVI_T2	1	3	2	0.5	0.17	-0.33	1.38	1.33	0	0	0	0	0	0
3/20/2025 10:07	63803	HEMP_T1	1	8	7	0.4	0.26	-0.14	0	0	0	0	0	0	0	0
3/20/2025 10:07	63802	HEMP_T1	0	2	2	0	0.3	0.3	0.15	0.17	0	0	0	0	0	0
3/20/2025 10:07	63804	HEMP_T1	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
3/20/2025 10:07	63801	HEMP_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/20/2025 10:07	57403	SPAN_T1	2	29	27	0.4	0.21	-0.19	0	0	0	0	0	0	0	0
3/20/2025 10:07	57401	SPAN_T1	20	62	42	0.28	0.3	0.02	-0.52	-0.53	0	0	0	0	0	0
3/20/2025 10:08	46004	BERW_T2	0	3	3	0	0.65	0.65	-0.33	-0.32	0	0	0	0	0	0
3/20/2025 10:08	42701	AUGU_T1	1	1	0	1.2	1.2	0	0	0	2	2	0	1800	1800	0
3/20/2025 10:08	52403	GRPA_T2	1	10	9	1	0.63	-0.37	0	0	0	0	0	0	0	0
3/20/2025 10:08	60201	ATGL_T2	16	12	-4	0.16	0.17	0.01	0.09	-0.12	0	0	0	0	0	0
3/20/2025 10:08	67001	STHI_T2	275	458	183	0.16	0.26	0.1	0	0	0	0	0	0	0	0
3/20/2025 10:08	52401	GRPA_T2	0	0	0	0	0	0	-1.3	-1.27	0	0	0	0	0	0
3/20/2025 10:08	52402	GRPA_T2	7	13	6	0.36	0.59	0.23	0	0	0	0	0	0	0	0
3/20/2025 10:08	57403	SPAN_T1	2	29	27	0.4	0.21	-0.19	0	0	0	0	0	0	0	0
3/20/2025 10:08	57401	SPAN_T1	20	62	42	0.28	0.3	0.02	-0.52	-0.53	0	0	0	0	0	0
3/20/2025 10:08	67002	STHI_T2	38	288	250	0.18	0.19	0.01	0	0	0	0	0	0	0	0
3/20/2025 10:08	46002	BERW_T2	0	3	3	0	0.13	0.13	-0.76	-0.78	1	1	0	900	900	0
3/20/2025 10:09	21202	ECAR_T2	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/20/2025 10:09	46001	BERW_T1	0	0	0	0	0	0	0.66	0.66	0	0	0	0	0	0
3/20/2025 10:09	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 10:09	57401	SPAN_T1	20	62	42	0.28	0.3	0.02	0	0	0	0	0	0	0	0
3/20/2025 10:09	10801	CHHI_T1	6	0	-6	0.17	0	-0.17	-0.92	-0.94	1	1	0	900	900	0
3/20/2025 10:09	60201	ATGL_T2	16	12	-4	0.16	0.17	0.01	0	0	0	0	0	0	0	0
3/20/2025 10:09	21206	ECAR_T2	1	1	0	8.1	7.1	-1	0.38	0.28	0	0	0	0	0	0
3/20/2025 10:09	57403	SPAN_T1	2	29	27	0.4	0.21	-0.19	0	0	0	0	0	0	0	0
3/20/2025 10:10	57401	SPAN_T1	20	62	42	0.28	0.3	0.02	-1.04	-1.06	0	0	0	0	0	0
3/20/2025 10:10	57403	SPAN_T1	2	29	27	0.4	0.21	-0.19	-0.04	0.01	0	0	0	0	0	0
3/20/2025 10:10	40502	CRES_T2	4	7	3	0.1	0.19	0.09	0	0	0	0	0	0	0	0
3/20/2025 10:10	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 10:10	40501	CRES_T2	10	5	-5	0.22	0.28	0.06	0	0	0	0	0	0	0	0
3/20/2025 10:11	40501	CRES_T2	10	5	-5	0.22	0.28	0.06	0	0	0	0	0	0	0	0
3/20/2025 10:11	54504	ENOL_T2	0	0	0	0	0	0	-1.2	-1.21	1	1	0	600	600	0
3/20/2025 10:11	10805	CHHI_T2	1	1	0	6.3	6.3	0	-1.77	-1.74	1	1	0	1200	1200	0
3/20/2025 10:11	54502	ENOL_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/20/2025 10:11	54505	ENOL_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
3/20/2025 10:11	10801	CHHI_T1	6	0	-6	0.17	0	-0.17	-0.92	-0.94	1	1	0	900	900	0
3/20/2025 10:11	40502	CRES_T2	4	7	3	0.1	0.19	0.09	0	0	0	0	0	0	0	0
3/20/2025 10:11	61002	DONV_T2	0	0	0	0	0	0	-1.38	-1.37	2	2	0	1200	1200	0
3/20/2025 10:12	17802	GILB_T1	4	5	1	0.48	0.72	0.24	0.07	0.03	0	0	0	0	0	0
3/20/2025 10:12	54505	ENOL_T2	2	2	0	0.35	0.45	0.1	0	0	0	0	0	0	0	0
3/20/2025 10:12	11203	ELHE_T1	0	0	0	0	0	0	0.78	0.75	0	0	0	0	0	0
3/20/2025 10:12	54502	ENOL_T2	1	1	0	1.2	1.3	0.1	-2.03	-2.15	1	1	0	600	600	0
3/20/2025 10:14	15702	TANN_T2	0	2	2	0	0.25	0.25	-0.5	-0.44	0	0	0	0	0	0
3/20/2025 10:14	23502	GEOR_T1	0	0	0	0	0	0	-0.25	-0.23	0	0	0	0	0	0
3/20/2025 10:14	15703	TANN_T2	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
3/20/2025 10:14	21701	SUBU_T1	1	1	0	6.4	6.3	-0.1	0	0	0	0	0	0	0	0
3/20/2025 10:14	21702	SUBU_T1	2	25	23	4.6	0.34	-4.26	0	0	0	0	0	0	0	0
3/20/2025 10:14	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 10:14	21705	SUBU_T1	1	1	0	5.8	5.6	-0.2	0	0	0	0	0	0	0	0
3/20/2025 10:16	64702	LITI_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 10:16	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 10:16	13303	ORVI_T1	1	0	-1	0.1	0	-0.1	0.93	1	0	0	0	0	0	0
3/20/2025 10:16	54502	ENOL_T2	1	1	0	1.3	1.3	0	-2.03	-2.15	1	1	0	600	600	0
3/20/2025 10:16	63501	HEID_TBK1-2	10	91	81	0.27	0.31	0.04	-0.12	-0.05	1	1	0	900	900	0
3/20/2025 10:16	54505	ENOL_T2	2	1	-1	0.45	0.8	0.35	0	0	0	0	0	0	0	0
3/20/2025 10:16	47203	FAXO_T2	0	0	0	0	0	0	-0.39	-0.43	0	0	0	0	0	0
3/20/2025 10:17	64702	LITI_T2	0	1	1	0	0	0	-1.52	-1.48	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/20/2025 10:18	58401	MORO_T1	0	0	0	0	0	0	-1.15	-1.13	1	1	0	600	600	0
3/20/2025 10:18	10401	LIGA_T1	83	94	11	0.4	0.44	0.04	0	0	0	0	0	0	0	0
3/20/2025 10:18	16901	MECK_T1	2	2	0	0.25	0.15	-0.1	0	0	0	0	0	0	0	0
3/20/2025 10:18	16902	MECK_T1	1	0	-1	0.1	0	-0.1	0.06	0.06	0	0	0	0	0	0
3/20/2025 10:19	13303	ORVI_T1	1	0	-1	0.1	0	-0.1	0.93	1	0	0	0	0	0	0
3/20/2025 10:19	24202	PROV_T4	59	65	6	0.17	0.22	0.05	-0.71	-0.73	1	1	0	1200	1200	0
3/20/2025 10:19	24203	PROV_T4	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/20/2025 10:19	24206	PROV_T4	2	4	2	0.1	0.1	0	0	0	0	0	0	0	0	0
3/20/2025 10:20	58401	MORO_T1	0	0	0	0	0	0	-2.3	-2.26	2	2	0	1200	1200	0
3/20/2025 10:20	65901	SAKR_T2	1	2	1	9.5	4.95	-4.55	-1.24	-1.24	1	1	0	900	900	0
3/20/2025 10:20	67106	SPRI_T2	0	1	1	0	0.2	0.2	-3.94	-4.02	4	4	0	3000	3000	0
3/20/2025 10:20	67402	WAKE_T2	0	0	0	0	0	0	1	1	0	0	0	0	0	0
3/20/2025 10:20	67101	SPRI_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
3/20/2025 10:21	57205	ROSS_T1	6	8	2	0.6	0.64	0.04	0	0	0	0	0	0	0	0
3/20/2025 10:21	58401	MORO_T1	0	0	0	0	0	0	-1.15	-1.13	1	1	0	600	600	0
3/20/2025 10:21	57203	ROSS_T1	13	8	-5	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
3/20/2025 10:21	57201	ROSS_T1	151	145	-6	0.26	0.24	-0.02	-3.72	-3.72	0	0	0	0	0	0
3/20/2025 10:22	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 10:22	57203	ROSS_T1	13	8	-5	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
3/20/2025 10:22	57205	ROSS_T1	6	8	2	0.6	0.64	0.04	0	0	0	0	0	0	0	0
3/20/2025 10:22	43801	SWIL_T1	43	16	-27	0.34	0.45	0.11	0	0	0	0	0	0	0	0
3/20/2025 10:22	47403	PENS_T1	1	2	1	2.3	1.2	-1.1	0	0	0	0	0	0	0	0
3/20/2025 10:22	57201	ROSS_T1	151	145	-6	0.26	0.24	-0.02	-1.24	-1.16	0	0	0	0	0	0
3/20/2025 10:22	47401	PENS_T1	3	3	0	0.63	0.53	-0.1	0.79	0.82	0	0	0	0	0	0
3/20/2025 10:22	47402	PENS_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
3/20/2025 10:23	57203	ROSS_T1	13	8	-5	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
3/20/2025 10:23	57205	ROSS_T1	6	8	2	0.6	0.64	0.04	0.09	0.09	0	0	0	0	0	0
3/20/2025 10:23	43802	SWIL_T1	0	0	0	0	0	0	-0.29	-0.3	1	1	0	600	600	0
3/20/2025 10:23	21203	ECAR_T1	0	2	2	0	0.15	0.15	-0.26	-0.24	0	0	0	0	0	0
3/20/2025 10:23	57201	ROSS_T1	151	145	-6	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
3/20/2025 10:23	43801	SWIL_T1	43	16	-27	0.34	0.45	0.11	0	0	0	0	0	0	0	0
3/20/2025 10:24	57203	ROSS_T1	13	8	-5	0.12	0.1	-0.02	0	0	0	0	0	0	0	0
3/20/2025 10:24	57205	ROSS_T1	6	8	2	0.6	0.64	0.04	0.09	0.09	0	0	0	0	0	0
3/20/2025 10:24	57201	ROSS_T1	151	145	-6	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
3/20/2025 10:24	67106	SPRI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/20/2025 10:24	67101	SPRI_T2	0	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0
3/20/2025 10:24	67402	WAKE_T2	0	0	0	0	0	0	1	1.02	0	0	0	0	0	0
3/20/2025 10:25	43802	SWIL_T1	0	0	0	0	0	0	-0.29	-0.3	1	1	0	600	600	0
3/20/2025 10:25	43801	SWIL_T1	43	16	-27	0.34	0.45	0.11	0	0	0	0	0	0	0	0
3/20/2025 10:26	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/20/2025 10:26	52402	GRPA_T2	11	20	9	0.49	0.64	0.15	0	0	0	0	0	0	0	0
3/20/2025 10:26	52403	GRPA_T2	7	38	31	0.64	0.46	-0.18	0	0	0	0	0	0	0	0
3/20/2025 10:27	13905	SEID_T1	0	0	0	0	0	0	0.2	0.18	0	0	0	0	0	0
3/20/2025 10:27	40802	EXCH_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/20/2025 10:27	15702	TANN_T2	1	2	1	0.4	0.15	-0.25	-0.44	-0.46	0	0	0	0	0	0
3/20/2025 10:27	40801	EXCH_T2	1	1	0	0.5	0.4	-0.1	-0.54	-0.55	1	1	0	1200	1200	0
3/20/2025 10:27	15703	TANN_T2	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
3/20/2025 10:27	44801	EDAN_T2	2	3	1	0.45	0.57	0.12	-0.93	-1	0	0	0	0	0	0
3/20/2025 10:28	52401	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/20/2025 10:28	52402	GRPA_T2	11	20	9	0.49	0.64	0.15	0	0	0	0	0	0	0	0
3/20/2025 10:28	63501	HEID_TBK1-2	10	91	81	0.27	0.31	0.04	-0.1	0.04	2	2	0	1800	1800	0
3/20/2025 10:28	52403	GRPA_T2	7	38	31	0.64	0.46	-0.18	0	0	0	0	0	0	0	0
3/20/2025 10:29	21705	SUBU_T1	1	1	0	5.7	5.6	-0.1	0.56	0.56	0	0	0	0	0	0
3/20/2025 10:29	21702	SUBU_T1	19	17	-2	0.48	0.45	-0.03	0	0	0	0	0	0	0	0
3/20/2025 10:29	21701	SUBU_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
3/20/2025 10:30	15702	TANN_T2	2	1	-1	0.15	0.1	-0.05	-0.88	-0.92	0	0	0	0	0	0
3/20/2025 10:30	63601	LETO_T1	0	0	0	0	0	0	1.22	1.43	1	1	0	900	900	0
3/20/2025 10:30	63602	LETO_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/20/2025 10:30	15703	TANN_T2	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
3/20/2025 10:31	21703	SUBU_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 10:31	21704	SUBU_T1	0	0	0	0	0	0	-2.48	-2.48	2	2	0	2400	2400	0
3/20/2025 10:31	21705	SUBU_T1	1	1	0	5.6	5.7	0.1	0	0	0	0	0	0	0	0
3/20/2025 10:31	21701	SUBU_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
3/20/2025 10:31	63501	HEID_TBK1-2	47	154	107	0.29	0.34	0.05	-0.1	0.04	2	2	0	1800	1800	0
3/20/2025 10:31	21702	SUBU_T1	17	2	-15	0.51	3.65	3.14	0	0	0	0	0	0	0	0
3/20/2025 10:31	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 10:32	47402	PENS_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
3/20/2025 10:32	58101	NEKI_T1	2	4	2	0.15	0.55	0.4	0	0	0	0	0	0	0	0
3/20/2025 10:32	47403	PENS_T1	1	2	1	2.2	1.2	-1	0	0	0	0	0	0	0	0
3/20/2025 10:32	47401	PENS_T1	0	3	3	0	0.57	0.57	0	0	0	0	0	0	0	0
3/20/2025 10:32	58102	NEKI_T1	1	2	1	0.9	0.6	-0.3	0.17	0.29	0	0	0	0	0	0
3/20/2025 10:33	65205	PRIN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 10:33	55001	NEWP_T1	2	7	5	0.55	0.33	-0.22	0	0	0	0	0	0	0	0
3/20/2025 10:33	55002	NEWP_T1	12	15	3	1.07	0.92	-0.15	-0.26	-0.25	0	0	0	0	0	0
3/20/2025 10:33	65202	PRIN_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/20/2025 10:34	64901	MILL_T1	5	25	20	0.12	0.16	0.04	0	0	0	0	0	0	0	0
3/20/2025 10:34	55002	NEWP_T1	12	15	3	1.07	0.92	-0.15	-0.52	-0.5	0	0	0	0	0	0
3/20/2025 10:34	55001	NEWP_T1	2	7	5	0.55	0.33	-0.22	-0.26	-0.22	0	0	0	0	0	0
3/20/2025 10:34	64904	MILL_T1	1	1	0	0.2	0.3	0.1	0.48	0.38	0	0	0	0	0	0
3/20/2025 10:35	57201	ROSS_T1	136	128	-8	0.23	0.23	0	0	0	0	0	0	0	0	0
3/20/2025 10:35	57203	ROSS_T1	7	5	-2	0.1	0.12	0.02	0.28	0.32	0	0	0	0	0	0
3/20/2025 10:35	57205	ROSS_T1	7	11	4	0.47	0.6	0.13	0	0	0	0	0	0	0	0
3/20/2025 10:36	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 10:36	67605	WARW_T1	29	30	1	0.48	0.61	0.13	-0.88	-1.05	0	0	0	0	0	0
3/20/2025 10:36	55001	NEWP_T1	2	7	5	0.55	0.33	-0.22	-0.26	-0.22	0	0	0	0	0	0
3/20/2025 10:36	55002	NEWP_T1	12	15	3	1.07	0.92	-0.15	-0.26	-0.25	0	0	0	0	0	0
3/20/2025 10:37	57201	ROSS_T1	136	128	-8	0.23	0.23	0	0	0	0	0	0	0	0	0
3/20/2025 10:37	67603	WARW_T1	0	1	1	0	0.1	0.1	0	-0.02	0	0	0	0	0	0
3/20/2025 10:37	57203	ROSS_T1	7	5	-2	0.1	0.12	0.02	0.32	0.33	0	0	0	0	0	0
3/20/2025 10:37	67605	WARW_T1	29	30	1	0.48	0.61	0.13	0	0	0	0	0	0	0	0
3/20/2025 10:37	57205	ROSS_T1	7	11	4	0.47	0.6	0.13	0	0	0	0	0	0	0	0
3/20/2025 10:37	48303	ORWI_T2	2	2	0	0.3	0.75	0.45	0.44	0.46	0	0	0	0	0	0
3/20/2025 10:37	48302	ORWI_T2	2	4	2	8.85	4.68	-4.17	0	0	0	0	0	0	0	0
3/20/2025 10:38	57203	ROSS_T1	7	5	-2	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/20/2025 10:38	57205	ROSS_T1	7	11	4	0.47	0.6	0.13	0.09	0.12	0	0	0	0	0	0
3/20/2025 10:38	67603	WARW_T1	0	1	1	0	0.1	0.1	0	-0.02	0	0	0	0	0	0
3/20/2025 10:38	42701	AUGU_T1	1	1	0	1.1	1	-0.1	0	0	2	2	0	1800	1800	0
3/20/2025 10:38	67605	WARW_T1	29	30	1	0.48	0.61	0.13	0	0	0	0	0	0	0	0
3/20/2025 10:38	57201	ROSS_T1	136	128	-8	0.23	0.23	0	0	0	0	0	0	0	0	0
3/20/2025 10:39	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 10:39	57203	ROSS_T1	7	5	-2	0.1	0.12	0.02	0.64	0.66	0	0	0	0	0	0
3/20/2025 10:39	57201	ROSS_T1	136	128	-8	0.23	0.23	0	0	0	0	0	0	0	0	0
3/20/2025 10:39	57205	ROSS_T1	7	11	4	0.47	0.6	0.13	0	0	0	0	0	0	0	0
3/20/2025 10:39	67605	WARW_T1	29	30	1	0.48	0.61	0.13	-0.88	-1.05	0	0	0	0	0	0
3/20/2025 10:39	67605	WARW_T1	29	30	1	0.48	0.61	0.13	-0.88	-1.05	0	0	0	0	0	0
3/20/2025 10:39	67605	WARW_T1	29	30	1	0.48	0.61	0.13	-0.88	-1.05	0	0	0	0	0	0
3/20/2025 10:39	67605	WARW_T1	29	30	1	0.48	0.61	0.13	-0.88	-1.05	0	0	0	0	0	0
3/20/2025 10:40	67503	WEWI_T2	1	6	5	0.2	0.17	-0.03	0	0	0	0	0	0	0	0
3/20/2025 10:40	67605	WARW_T1	29	30	1	0.48	0.61	0.13	0	0	0	0	0	0	0	0
3/20/2025 10:40	67502	WEWI_T2	7	63	56	0.39	0.26	-0.13	0	0	0	0	0	0	0	0
3/20/2025 10:40	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 10:41	57205	ROSS_T1	7	11	4	0.47	0.6	0.13	0.09	0.12	0	0	0	0	0	0
3/20/2025 10:41	57201	ROSS_T1	136	128	-8	0.23	0.23	0	0	0	0	0	0	0	0	0
3/20/2025 10:41	57203	ROSS_T1	7	5	-2	0.1	0.12	0.02	0	0	0	0	0	0	0	0
3/20/2025 10:41	45501	DERR_T2	1	24	23	0.1	0.43	0.33	0.19	0.19	2	2	0	1800	1800	0
3/20/2025 10:41	67605	WARW_T1	29	30	1	0.48	0.61	0.13	-0.88	-1.05	0	0	0	0	0	0
3/20/2025 10:41	67603	WARW_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 10:42	41601	CLEV_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/20/2025 10:42	41602	CLEV_T1	2	3	1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
3/20/2025 10:42	60801	BUCK_T1	1	0	-1	0.2	0	-0.2	0.23	0.21	0	0	0	0	0	0
3/20/2025 10:42	11202	ELHE_T2	0	0	0	0	0	0	0.37	0.35	1	1	0	1200	1200	0
3/20/2025 10:42	45501	DERR_T2	1	24	23	0.1	0.43	0.33	0.19	0.19	2	2	0	1800	1800	0
3/20/2025 10:42	60803	BUCK_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/20/2025 10:43	46801	HEPB_T2	6	17	11	0.6	0.32	-0.28	0	0	0	0	0	0	0	0
3/20/2025 10:43	45501	DERR_T2	1	24	23	0.1	0.43	0.33	0.19	0.19	2	2	0	1800	1800	0
3/20/2025 10:43	41601	CLEV_T1	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/20/2025 10:43	46803	HEPB_T2	4	8	4	0.4	0.39	-0.01	0	0	0	0	0	0	0	0
3/20/2025 10:43	41602	CLEV_T1	2	3	1	0.5	0.53	0.03	0	0	0	0	0	0	0	0
3/20/2025 10:43	53501	EVIL_T2	4	3	-1	0.68	0.8	0.12	-0.25	-0.38	1	1	0	600	600	0
3/20/2025 10:44	45501	DERR_T2	1	24	23	0.1	0.43	0.33	0.19	0.19	2	2	0	1800	1800	0
3/20/2025 10:45	42401	GIMA_T1	12	20	8	0.23	0.21	-0.02	0	0	0	0	0	0	0	0
3/20/2025 10:45	46801	HEPB_T2	6	26	20	0.58	0.28	-0.3	0	0	0	0	0	0	0	0
3/20/2025 10:45	46803	HEPB_T2	6	8	2	0.3	0.4	0.1	0.51	0.39	0	0	0	0	0	0
3/20/2025 10:46	46801	HEPB_T2	6	26	20	0.58	0.28	-0.3	0.51	0.52	0	0	0	0	0	0
3/20/2025 10:46	46803	HEPB_T2	6	8	2	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/20/2025 10:47	67805	WLAN_T1	0	1	1	0	0.1	0.1	-0.94	-0.92	0	0	0	0	0	0
3/20/2025 10:47	67804	WLAN_T1	18	31	13	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
3/20/2025 10:47	58401	MORO_T1	0	3	3	0	0.3	0.3	-1.16	-1.16	1	1	0	600	600	0
3/20/2025 10:47	67803	WLAN_T1	9	17	8	0.23	0.19	-0.04	0	0	0	0	0	0	0	0
3/20/2025 10:47	63602	LETO_T1	0	0	0	0	0	0	-0.43	-0.56	0	0	0	0	0	0
3/20/2025 10:47	63601	LETO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 10:48	44701	MUNC_T2	0	0	0	0	0	0	-1.16	-1.12	0	0	0	0	0	0
3/20/2025 10:48	63601	LETO_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 10:48	63602	LETO_T1	0	0	0	0	0	0	-0.43	-0.56	0	0	0	0	0	0
3/20/2025 10:48	58401	MORO_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
3/20/2025 10:48	58402	MORO_T1	0	0	0	0	0	0	-0.11	-0.02	2	2	0	1500	1500	0
3/20/2025 10:49	58401	MORO_T1	0	3	3	0	0.3	0.3	-1.16	-1.16	1	1	0	600	600	0
3/20/2025 10:49	44701	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 10:52	58401	MORO_T1	0	3	3	0	0.3	0.3	-1.16	-1.18	1	1	0	600	600	0
3/20/2025 10:53	58401	MORO_T1	0	3	3	0	0.3	0.3	0	0	0	0	0	0	0	0
3/20/2025 10:53	45802	HEGI_T2	3	25	22	0.27	0.39	0.12	1.8	1.16	0	0	0	0	0	0
3/20/2025 10:53	40303	TAMA_T3	2	3	1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
3/20/2025 10:53	58402	MORO_T1	0	0	0	0	0	0	-0.02	-0.07	2	2	0	1500	1500	0
3/20/2025 10:53	40302	TAMA_T3	11	31	20	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/20/2025 10:53	40301	TAMA_T3	6	8	2	0.84	0.73	-0.11	1.49	1.45	2	2	0	1800	1800	0
3/20/2025 10:53	43301	WATS_T2	0	0	0	0	0	0	0.17	0.14	0	0	0	0	0	0
3/20/2025 11:02	58401	MORO_T1	2	4	2	0.3	0.35	0.05	-1.16	-1.18	1	1	0	600	600	0
3/20/2025 11:05	54601	SUMM_T2	8	15	7	0.9	0.69	-0.21	-1.94	-1.9	2	2	0	2100	2100	0
3/20/2025 11:06	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 11:06	54601	SUMM_T2	8	15	7	0.9	0.69	-0.21	-1.94	-1.9	2	2	0	2100	2100	0
3/20/2025 11:07	57205	ROSS_T1	11	14	3	0.6	0.41	-0.19	0	0	0	0	0	0	0	0
3/20/2025 11:07	67503	WEWI_T2	4	7	3	0.18	0.33	0.15	0	0	0	0	0	0	0	0
3/20/2025 11:07	57201	ROSS_T1	85	154	69	0.25	0.29	0.04	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/20/2025 11:07	57203	ROSS_T1	3	16	13	0.13	0.12	-0.01	0.28	0.31	0	0	0	0	0	0
3/20/2025 11:07	67502	WEWI_T2	56	195	139	0.24	0.31	0.07	0	0	0	0	0	0	0	0
3/20/2025 11:08	21206	ECAR_T2	1	1	0	7.4	7.5	0.1	0	0	0	0	0	0	0	0
3/20/2025 11:08	52402	GRPA_T2	19	101	82	0.69	0.49	-0.2	0	0	0	0	0	0	0	0
3/20/2025 11:08	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 11:08	52403	GRPA_T2	50	67	17	0.41	0.49	0.08	0	0	0	0	0	0	0	0
3/20/2025 11:08	52401	GRPA_T2	2	1	-1	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/20/2025 11:08	43402	BENT_T1	2	3	1	0.45	0.93	0.48	-0.81	-0.75	1	1	0	900	900	0
3/20/2025 11:08	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 11:08	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 11:08	21204	ECAR_T2	1	3	2	0	7.75	7.75	-0.63	-0.63	0	0	0	0	0	0
3/20/2025 11:08	45902	AUBU_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/20/2025 11:09	45902	AUBU_T1	1	0	-1	0.2	0	-0.2	0	0	1	1	0	600	600	0
3/20/2025 11:09	52401	GRPA_T2	2	1	-1	0.4	0.3	-0.1	-1.23	-1.23	0	0	0	0	0	0
3/20/2025 11:09	52403	GRPA_T2	50	67	17	0.41	0.49	0.08	0	0	0	0	0	0	0	0
3/20/2025 11:09	43401	BENT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 11:09	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 11:09	52402	GRPA_T2	19	101	82	0.69	0.49	-0.2	0	0	0	0	0	0	0	0
3/20/2025 11:09	43402	BENT_T1	2	3	1	0.45	0.93	0.48	-2.42	-2.26	3	3	0	2700	2700	0
3/20/2025 11:10	45902	AUBU_T1	1	0	-1	0.2	0	-0.2	0	0	2	2	0	1200	1200	0
3/20/2025 11:11	61801	EELI_T2	1	8	7	0.1	0.4	0.3	-0.28	-0.28	0	0	0	0	0	0
3/20/2025 11:11	45902	AUBU_T1	1	0	-1	0.2	0	-0.2	0	0	1	1	0	600	600	0
3/20/2025 11:14	54502	ENOL_T2	1	2	1	1.3	0.7	-0.6	0	0	0	0	0	0	0	0
3/20/2025 11:14	54504	ENOL_T2	0	1	1	0	0.8	0.8	0	0	0	0	0	0	0	0
3/20/2025 11:14	54505	ENOL_T2	1	1	0	0.8	0.9	0.1	-1.39	-1.41	1	1	0	600	600	0
3/20/2025 11:15	61803	EELI_T2	0	1	1	0	0.3	0.3	0.99	1	0	0	0	0	0	0
3/20/2025 11:15	54504	ENOL_T2	0	1	1	0	1.1	1.1	0	0	0	0	0	0	0	0
3/20/2025 11:15	54505	ENOL_T2	1	2	1	0.8	0.65	-0.15	-1.39	-1.41	1	1	0	600	600	0
3/20/2025 11:15	54502	ENOL_T2	1	4	3	1.3	0.38	-0.92	0	0	0	0	0	0	0	0
3/20/2025 11:15	61801	EELI_T2	7	10	3	0.4	0.44	0.04	0	0	0	0	0	0	0	0
3/20/2025 11:16	41204	KENM_T2	1	1	0	0.6	0.4	-0.2	-0.02	0.02	0	0	0	0	0	0
3/20/2025 11:16	41202	KENM_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/20/2025 11:19	41001	LAUR_T2	83	58	-25	0.54	0.24	-0.3	0	0	0	0	0	0	0	0
3/20/2025 11:19	47104	MARL_T1	0	0	0	0	0	0	-0.94	-0.99	0	0	0	0	0	0
3/20/2025 11:19	41002	LAUR_T2	52	20	-32	0.44	0.32	-0.12	0	0	0	0	0	0	0	0
3/20/2025 11:20	57205	ROSS_T1	14	12	-2	0.27	0.54	0.27	0	0	0	0	0	0	0	0
3/20/2025 11:20	57201	ROSS_T1	135	147	12	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
3/20/2025 11:20	48302	ORWI_T2	4	2	-2	4.7	9.1	4.4	0	0	0	0	0	0	0	0
3/20/2025 11:20	57203	ROSS_T1	13	11	-2	0.11	0.17	0.06	0	0	0	0	0	0	0	0
3/20/2025 11:20	48303	ORWI_T2	2	2	0	0.7	0.65	-0.05	0.51	0.5	0	0	0	0	0	0
3/20/2025 11:22	57203	ROSS_T1	13	11	-2	0.11	0.17	0.06	0	0	0	0	0	0	0	0
3/20/2025 11:22	57205	ROSS_T1	14	12	-2	0.27	0.54	0.27	0	0	0	0	0	0	0	0
3/20/2025 11:22	57201	ROSS_T1	135	147	12	0.3	0.24	-0.06	0	0	0	0	0	0	0	0
3/20/2025 11:23	52403	GRPA_T2	61	119	58	0.48	0.46	-0.02	0	0	0	0	0	0	0	0
3/20/2025 11:23	52402	GRPA_T2	82	100	18	0.33	0.5	0.17	0	0	0	0	0	0	0	0
3/20/2025 11:23	52401	GRPA_T2	1	3	2	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/20/2025 11:24	46201	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/20/2025 11:24	46203	DANV_T2	191	139	-52	1.22	0.47	-0.75	0.22	0.14	0	0	0	0	0	0
3/20/2025 11:24	41602	CLEV_T1	2	5	3	0.55	0.7	0.15	0	0	0	0	0	0	0	0
3/20/2025 11:24	46204	DANV_T2	1	0	-1	2.4	0	-2.4	0	0	0	0	0	0	0	0
3/20/2025 11:24	41601	CLEV_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/20/2025 11:25	15601	NSTR_T2	2	3	1	0.3	0.53	0.23	0	0	0	0	0	0	0	0
3/20/2025 11:25	15602	NSTR_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/20/2025 11:25	44801	EDAN_T2	4	4	0	0.4	0.68	0.28	0	0	0	0	0	0	0	0
3/20/2025 11:25	41601	CLEV_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/20/2025 11:25	44802	EDAN_T2	0	0	0	0	0	0	-0.88	-0.83	0	0	0	0	0	0
3/20/2025 11:25	41602	CLEV_T1	2	5	3	0.55	0.7	0.15	0	0	0	0	0	0	0	0
3/20/2025 11:25	15603	NSTR_T2	2	1	-1	0.45	0.8	0.35	0	0	0	0	0	0	0	0
3/20/2025 11:26	46203	DANV_T2	191	139	-52	1.22	0.47	-0.75	0.11	0.07	0	0	0	0	0	0
3/20/2025 11:26	46204	DANV_T2	1	0	-1	2.4	0	-2.4	0	0	0	0	0	0	0	0
3/20/2025 11:26	44801	EDAN_T2	4	4	0	0.4	0.68	0.28	0	0	0	0	0	0	0	0
3/20/2025 11:26	46201	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/20/2025 11:26	44802	EDAN_T2	0	0	0	0	0	0	-1.76	-1.67	0	0	0	0	0	0
3/20/2025 11:27	15603	NSTR_T2	2	1	-1	0.45	0.8	0.35	0	0	0	0	0	0	0	0
3/20/2025 11:27	46201	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/20/2025 11:27	46204	DANV_T2	1	0	-1	2.4	0	-2.4	0	0	0	0	0	0	0	0
3/20/2025 11:27	44801	EDAN_T2	4	4	0	0.4	0.68	0.28	0	0	0	0	0	0	0	0
3/20/2025 11:27	15601	NSTR_T2	2	3	1	0.3	0.53	0.23	0	0	0	0	0	0	0	0
3/20/2025 11:27	46203	DANV_T2	191	139	-52	1.22	0.47	-0.75	0.11	0.07	0	0	0	0	0	0
3/20/2025 11:27	15602	NSTR_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/20/2025 11:27	44802	EDAN_T2	0	0	0	0	0	0	-0.88	-0.83	0	0	0	0	0	0
3/20/2025 11:28	15603	NSTR_T2	2	1	-1	0.45	0.8	0.35	0	0	0	0	0	0	0	0
3/20/2025 11:28	17802	GILB_T1	8	9	1	0.64	0.69	0.05	0.03	0.03	0	0	0	0	0	0
3/20/2025 11:28	15601	NSTR_T2	2	3	1	0.3	0.53	0.23	0	0	0	0	0	0	0	0
3/20/2025 11:28	15602	NSTR_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/20/2025 11:28	10801	CHHI_T1	5	9	4	0.2	0.4	0.2	-0.88	-0.77	1	1	0	900	900	0
3/20/2025 11:29	44802	EDAN_T2	0	0	0	0	0	0	-0.88	-0.83	0	0	0	0	0	0
3/20/2025 11:29	47201	FAXO_T2	0	0	0	0	0	0	-2.33	-2.33	1	1	0	1200	1200	0
3/20/2025 11:29	44801	EDAN_T2	4	4	0	0.4	0.68	0.28	0	0	0	0	0	0	0	0
3/20/2025 11:30	44802	EDAN_T2	0	0	0	0	0	0	-1.76	-1.67	0	0	0	0	0	0
3/20/2025 11:30	52001	LING_T1	0	0	0	0	0	0	0.09	0.09	0	0	0	0	0	0
3/20/2025 11:30	52004	LING_T2	3	7	4	4.57	2.74	-1.83	0.26	0.5	0	0	0	0	0	0
3/20/2025 11:30	52006	LING_T2	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/20/2025 11:30	52002	LING_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/20/2025 11:30	41601	CLEV_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/20/2025 11:30	44801	EDAN_T2	3	4	1	0.57	0.8	0.23	0	0	0	0	0	0	0	0
3/20/2025 11:30	41602	CLEV_T1	3	6	3	0.7	1.83	1.13	0	0	0	0	0	0	0	0
3/20/2025 11:32	52002	LING_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/20/2025 11:32	52004	LING_T2	3	7	4	4.57	2.74	-1.83	0.13	0.25	0	0	0	0	0	0
3/20/2025 11:32	52006	LING_T2	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/20/2025 11:34	52004	LING_T2	3	7	4	4.57	2.74	-1.83	0.13	0.25	0	0	0	0	0	0
3/20/2025 11:34	52006	LING_T2	2	2	0	0.9	1	0.1	0	0	0	0	0	0	0	0
3/20/2025 11:34	52002	LING_T2	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/20/2025 11:37	67603	WARW_T1	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
3/20/2025 11:37	67605	WARW_T1	39	170	131	0.64	0.39	-0.25	-1.11	-1.09	0	0	0	0	0	0
3/20/2025 11:37	54601	SUMM_T2	13	15	2	0.75	0.81	0.06	-3.8	-3.66	4	4	0	4200	4200	0
3/20/2025 11:38	60201	ATGL_T2	3	8	5	0.13	0.19	0.06	0.01	-0.03	0	0	0	0	0	0
3/20/2025 11:38	67601	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 11:38	54601	SUMM_T2	13	15	2	0.75	0.81	0.06	-3.8	-3.66	4	4	0	4200	4200	0
3/20/2025 11:38	67603	WARW_T1	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
3/20/2025 11:38	67605	WARW_T1	39	170	131	0.64	0.39	-0.25	-1.11	-1.09	0	0	0	0	0	0
3/20/2025 11:39	52403	GRPA_T2	50	122	72	0.55	0.49	-0.06	0	0	0	0	0	0	0	0
3/20/2025 11:39	52402	GRPA_T2	97	96	-1	0.49	0.44	-0.05	0	0	0	0	0	0	0	0
3/20/2025 11:39	52401	GRPA_T2	1	5	4	0.3	0.3	0	0	0	0	0	0	0	0	0
3/20/2025 11:40	67901	WNHO_T2	0	0	0	0	0	0	0.53	0.46	1	1	0	900	900	0
3/20/2025 11:40	52401	GRPA_T2	1	5	4	0.3	0.3	0	0	0	0	0	0	0	0	0
3/20/2025 11:40	52403	GRPA_T2	50	122	72	0.55	0.49	-0.06	0	0	0	0	0	0	0	0
3/20/2025 11:40	14802	TREI_T2	16	21	5	0.27	0.28	0.01	0.35	0.27	0	0	0	0	0	0
3/20/2025 11:40	14801	TREI_T2	67	100	33	0.21	0.3	0.09	0	0	0	0	0	0	0	0
3/20/2025 11:40	52402	GRPA_T2	97	96	-1	0.49	0.44	-0.05	0	0	0	0	0	0	0	0
3/20/2025 11:41	14802	TREI_T2	16	21	5	0.27	0.28	0.01	0.35	0.27	0	0	0	0	0	0
3/20/2025 11:41	11205	ELHE_T1	0	0	0	0	0	0	-0.87	-0.87	1	1	0	1200	1200	0
3/20/2025 11:41	14801	TREI_T2	67	100	33	0.21	0.3	0.09	0.28	0.26	0	0	0	0	0	0
3/20/2025 11:43	64203	KINZ_T1	0	0	0	0	0	0	1.17	1.45	1	1	0	600	600	0
3/20/2025 11:43	64204	KINZ_T1	3	66	63	0.5	0.74	0.24	0	0	0	0	0	0	0	0
3/20/2025 11:43	17401	FOHI_T1	0	0	0	0	0	0	-1.03	-1.03	0	0	0	0	0	0
3/20/2025 11:43	64202	KINZ_T1	0	3	3	0	0.8	0.8	0	0	0	0	0	0	0	0
3/20/2025 11:45	64203	KINZ_T1	0	0	0	0	0	0	1.17	1.45	1	1	0	600	600	0
3/20/2025 11:45	64204	KINZ_T1	7	68	61	0.31	1	0.69	0	0	0	0	0	0	0	0
3/20/2025 11:45	64202	KINZ_T1	3	3	0	0.4	1.23	0.83	0	0	0	0	0	0	0	0
3/20/2025 11:47	64204	KINZ_T1	7	68	61	0.31	1	0.69	0	0	0	0	0	0	0	0
3/20/2025 11:47	47101	MARL_T1	0	1	1	0	0.4	0.4	-1.28	-1.29	0	0	0	0	0	0
3/20/2025 11:47	64202	KINZ_T1	3	3	0	0.4	1.23	0.83	0	0	0	0	0	0	0	0
3/20/2025 11:47	64201	KINZ_T1	0	0	0	0	0	0	-0.16	-0.13	3	3	0	1500	1500	0
3/20/2025 11:48	16902	MECK_T1	5	8	3	0.26	0.24	-0.02	0.06	0.06	0	0	0	0	0	0
3/20/2025 11:48	16901	MECK_T1	4	10	6	0.25	0.18	-0.07	0	0	0	0	0	0	0	0
3/20/2025 11:49	41902	REED_T1	3	4	1	0.37	0.6	0.23	1.06	1.09	0	0	0	0	0	0
3/20/2025 11:50	47101	MARL_T1	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/20/2025 11:50	47104	MARL_T1	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
3/20/2025 11:51	58402	MORO_T1	0	5	5	0	0.44	0.44	-0.08	-0.11	2	2	0	1500	1500	0
3/20/2025 11:51	58401	MORO_T1	4	9	5	0.35	0.49	0.14	0	0	0	0	0	0	0	0
3/20/2025 11:52	60803	BUCK_T1	4	21	17	0.13	0.24	0.11	0	0	0	0	0	0	0	0
3/20/2025 11:52	60801	BUCK_T1	4	32	28	0.23	0.28	0.05	0	-0.2	0	0	0	0	0	0
3/20/2025 11:54	67402	WAKE_T2	0	0	0	0	0	0	1.06	1.03	0	0	0	0	0	0
3/20/2025 11:54	67401	WAKE_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/20/2025 11:54	17001	RIRO_T1	0	0	0	0	0	0	-0.09	-0.1	0	0	0	0	0	0
3/20/2025 11:55	60803	BUCK_T1	4	21	17	0.13	0.24	0.11	-0.58	-0.56	1	1	0	600	600	0
3/20/2025 11:55	41602	CLEV_T1	2	5	3	0.45	0.78	0.33	0	0	0	0	0	0	0	0
3/20/2025 11:55	41601	CLEV_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/20/2025 11:55	60801	BUCK_T1	4	32	28	0.23	0.28	0.05	0	-0.2	0	0	0	0	0	0
3/20/2025 11:56	60801	BUCK_T1	4	32	28	0.23	0.28	0.05	0	0	0	0	0	0	0	0
3/20/2025 11:56	42701	AUGU_T1	2	4	2	0.8	0.53	-0.27	0	0	2	2	0	1800	1800	0
3/20/2025 11:56	41601	CLEV_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/20/2025 11:56	41602	CLEV_T1	2	5	3	0.45	0.78	0.33	0	0	0	0	0	0	0	0
3/20/2025 11:56	45802	HEGI_T2	46	32	-14	1.41	0.58	-0.83	0.8	0.83	0	0	0	0	0	0
3/20/2025 11:56	60803	BUCK_T1	4	21	17	0.13	0.24	0.11	-1.16	-1.12	2	2	0	1200	1200	0
3/20/2025 11:57	60201	ATGL_T2	1	28	27	0.1	0.17	0.07	-0.03	-0.05	0	0	0	0	0	0
3/20/2025 11:57	60803	BUCK_T1	4	21	17	0.13	0.24	0.11	-0.58	-0.56	1	1	0	600	600	0
3/20/2025 11:57	60801	BUCK_T1	4	32	28	0.23	0.28	0.05	0	0	0	0	0	0	0	0
3/20/2025 11:58	15602	NSTR_T2	1	1	0	0.6	0.4	-0.2	0.1	0.09	0	0	0	0	0	0
3/20/2025 11:58	15603	NSTR_T2	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
3/20/2025 11:58	41602	CLEV_T1	2	5	3	0.45	0.78	0.33	0	0	0	0	0	0	0	0
3/20/2025 11:58	45501	DERR_T2	8	10	2	0.49	0.53	0.04	0.17	0.18	2	2	0	1800	1800	0
3/20/2025 11:58	60801	BUCK_T1	4	32	28	0.23	0.28	0.05	0	0	0	0	0	0	0	0
3/20/2025 11:58	15601	NSTR_T2	3	8	5	0.53	0.28	-0.25	0	0	0	0	0	0	0	0
3/20/2025 11:58	41601	CLEV_T1	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/20/2025 11:58	60803	BUCK_T1	4	21	17	0.13	0.24	0.11	-0.58	-0.56	1	1	0	600	600	0
3/20/2025 11:59	45501	DERR_T2	8	10	2	0.49	0.53	0.04	0.17	0.18	2	2	0	1800	1800	0
3/20/2025 11:59	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 12:00	40802	EXCH_T2	2	2	0	0.6	0.9	0.3	0.34	-0.08	0	0	0	0	0	0
3/20/2025 12:00	40801	EXCH_T2	2	2	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/20/2025 12:02	64204	KINZ_T1	66	67	1	0.74	1	0.26	0	0	0	0	0	0	0	0
3/20/2025 12:02	64202	KINZ_T1	3	3	0	0.8	1.23	0.43	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/20/2025 12:02	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 12:03	10903	COOP_T2	2	5	3	0.45	0.4	-0.05	0	0	0	0	0	0	0	0
3/20/2025 12:04	67106	SPRI_T2	4	4	0	0.1	0.45	0.35	-1.98	-1.98	2	2	0	1500	1500	0
3/20/2025 12:04	67101	SPRI_T2	1	1	0	1.5	2.4	0.9	0	0	0	0	0	0	0	0
3/20/2025 12:04	67102	SPRI_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 12:05	50506	MECH_T1	2	5	3	1.05	0.52	-0.53	0.18	0.2	0	0	0	0	0	0
3/20/2025 12:05	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 12:05	50502	MECH_T1	1	5	4	1.4	0.48	-0.92	0	0	0	0	0	0	0	0
3/20/2025 12:05	14403	SSLA_T1	1	6	5	0.1	0.6	0.5	0	0	0	0	0	0	0	0
3/20/2025 12:05	54602	SUMM_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/20/2025 12:05	50503	MECH_T1	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
3/20/2025 12:05	50504	MECH_T1	2	4	2	0.25	0.23	-0.02	0	0	0	0	0	0	0	0
3/20/2025 12:05	14401	SSLA_T1	5	10	5	0.14	0.43	0.29	-0.6	-0.59	0	0	0	0	0	0
3/20/2025 12:05	50501	MECH_T1	4	5	1	0.23	0.32	0.09	0	0	0	0	0	0	0	0
3/20/2025 12:05	14404	SSLA_T1	8	23	15	0.16	0.39	0.23	0	0	0	0	0	0	0	0
3/20/2025 12:05	54601	SUMM_T2	15	16	1	0.81	0.77	-0.04	-1.83	-1.84	2	2	0	2100	2100	0
3/20/2025 12:05	14402	SSLA_T1	135	95	-40	0.19	0.21	0.02	0	0	0	0	0	0	0	0
3/20/2025 12:05	50505	MECH_T1	1	1	0	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/20/2025 12:06	14403	SSLA_T1	1	6	5	0.1	0.6	0.5	0	0	0	0	0	0	0	0
3/20/2025 12:06	67201	TEHI_T1	1	0	-1	0.1	0	-0.1	-0.42	-0.19	3	3	0	2400	2400	0
3/20/2025 12:06	41002	LAUR_T2	16	54	38	0.34	0.3	-0.04	0	0	0	0	0	0	0	0
3/20/2025 12:06	14404	SSLA_T1	8	23	15	0.16	0.39	0.23	-0.21	-0.18	0	0	0	0	0	0
3/20/2025 12:06	14401	SSLA_T1	5	10	5	0.14	0.43	0.29	-1.77	-1.68	0	0	0	0	0	0
3/20/2025 12:06	41001	LAUR_T2	60	79	19	0.21	0.36	0.15	0	0	0	0	0	0	0	0
3/20/2025 12:06	14402	SSLA_T1	135	95	-40	0.19	0.21	0.02	0	0	0	0	0	0	0	0
3/20/2025 12:07	14404	SSLA_T1	8	23	15	0.16	0.39	0.23	0	0	0	0	0	0	0	0
3/20/2025 12:07	14401	SSLA_T1	5	10	5	0.14	0.43	0.29	-1.18	-1.12	0	0	0	0	0	0
3/20/2025 12:07	14403	SSLA_T1	1	6	5	0.1	0.6	0.5	0	0	0	0	0	0	0	0
3/20/2025 12:07	14402	SSLA_T1	135	95	-40	0.19	0.21	0.02	0	0	0	0	0	0	0	0
3/20/2025 12:08	14403	SSLA_T1	1	6	5	0.1	0.6	0.5	0	0	0	0	0	0	0	0
3/20/2025 12:08	14402	SSLA_T1	135	95	-40	0.19	0.21	0.02	0	0	0	0	0	0	0	0
3/20/2025 12:08	14404	SSLA_T1	8	23	15	0.16	0.39	0.23	-0.07	-0.06	0	0	0	0	0	0
3/20/2025 12:08	60801	BUCK_T1	3	48	45	0.23	0.29	0.06	-0.2	-0.19	0	0	0	0	0	0
3/20/2025 12:08	14401	SSLA_T1	5	10	5	0.14	0.43	0.29	0	0	0	0	0	0	0	0
3/20/2025 12:08	21206	ECAR_T2	1	1	0	7.5	7.9	0.4	0.28	0.25	0	0	0	0	0	0
3/20/2025 12:08	60803	BUCK_T1	12	22	10	0.17	0.26	0.09	0	0	0	0	0	0	0	0
3/20/2025 12:08	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 12:09	60803	BUCK_T1	12	22	10	0.17	0.26	0.09	0	0	0	0	0	0	0	0
3/20/2025 12:09	60801	BUCK_T1	3	48	45	0.23	0.29	0.06	0	0	0	0	0	0	0	0
3/20/2025 12:10	61001	DONV_T1	1	2	1	1	0.95	-0.05	-0.12	-0.09	0	0	0	0	0	0
3/20/2025 12:11	44301	BEAV_T2	14	4	-10	0.36	0.18	-0.18	-0.33	-0.35	2	2	0	1500	1500	0
3/20/2025 12:11	44302	BEAV_T2	1	2	1	0.2	0.65	0.45	0	0	0	0	0	0	0	0
3/20/2025 12:11	21403	EXET_T2	0	1	1	0	0.2	0.2	-1.29	-1.28	0	0	0	0	0	0
3/20/2025 12:12	60801	BUCK_T1	3	48	45	0.23	0.29	0.06	-0.41	-0.38	0	0	0	0	0	0
3/20/2025 12:12	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 12:12	60803	BUCK_T1	12	22	10	0.17	0.26	0.09	0	0	0	0	0	0	0	0
3/20/2025 12:12	44502	HAMI_T2	1	1	0	2.6	2.5	-0.1	0	0	0	0	0	0	0	0
3/20/2025 12:13	44502	HAMI_T2	1	1	0	2.6	2.5	-0.1	0	0	0	0	0	0	0	0
3/20/2025 12:13	44302	BEAV_T2	1	2	1	0.2	0.65	0.45	0	0	0	0	0	0	0	0
3/20/2025 12:13	21906	HUMB_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/20/2025 12:13	21901	HUMB_T1	0	0	0	0	0	0	-0.89	-0.89	0	0	0	0	0	0
3/20/2025 12:13	44505	HAMI_T2	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
3/20/2025 12:13	44301	BEAV_T2	14	4	-10	0.36	0.18	-0.18	-0.33	-0.35	2	2	0	1500	1500	0
3/20/2025 12:14	44505	HAMI_T2	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
3/20/2025 12:14	44502	HAMI_T2	1	1	0	2.6	2.5	-0.1	0	0	0	0	0	0	0	0
3/20/2025 12:15	17802	GILB_T1	4	8	4	0.48	0.65	0.17	0.04	0.02	0	0	0	0	0	0
3/20/2025 12:17	43402	BENT_T1	2	8	6	1.3	0.65	-0.65	-0.75	-0.77	1	1	0	900	900	0
3/20/2025 12:17	64203	KINZ_T1	0	0	0	0	0	0	0.76	1.39	2	1	-1	900	600	-300
3/20/2025 12:17	47101	MARL_T1	1	1	0	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/20/2025 12:17	64202	KINZ_T1	3	3	0	1.23	0.33	-0.9	0	0	0	0	0	0	0	0
3/20/2025 12:17	64204	KINZ_T1	67	64	-3	1	0.57	-0.43	0	0	0	0	0	0	0	0
3/20/2025 12:17	47104	MARL_T1	0	0	0	0	0	0	-0.94	-0.97	0	0	0	0	0	0
3/20/2025 12:19	64902	MILL_T2	0	0	0	0	0	0	0.24	0.2	0	0	0	0	0	0
3/20/2025 12:19	64903	MILL_T2	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/20/2025 12:20	40303	TAMA_T3	1	1	0	0.3	0.3	0	2.9	2.91	0	0	0	0	0	0
3/20/2025 12:20	40302	TAMA_T3	16	14	-2	0.49	0.44	-0.05	0	0	0	0	0	0	0	0
3/20/2025 12:20	64904	MILL_T1	0	2	2	0	0.25	0.25	0.36	0.37	0	0	0	0	0	0
3/20/2025 12:20	64901	MILL_T1	15	28	13	0.15	0.17	0.02	0	0	0	0	0	0	0	0
3/20/2025 12:20	40301	TAMA_T3	5	5	0	0.85	0.78	-0.07	0	0	0	0	0	0	0	0
3/20/2025 12:21	43802	SWIL_T1	6	7	1	0.25	0.53	0.28	-0.32	-0.31	1	1	0	600	600	0
3/20/2025 12:21	43801	SWIL_T1	61	66	5	0.31	0.28	-0.03	0	0	0	0	0	0	0	0
3/20/2025 12:21	58401	MORO_T1	9	7	-2	0.49	0.31	-0.18	-1.11	-1.12	1	1	0	600	600	0
3/20/2025 12:21	58402	MORO_T1	5	0	-5	0.44	0	-0.44	0	0	0	0	0	0	0	0
3/20/2025 12:22	43801	SWIL_T1	61	66	5	0.31	0.28	-0.03	0	0	0	0	0	0	0	0
3/20/2025 12:22	43802	SWIL_T1	6	7	1	0.25	0.53	0.28	-0.32	-0.31	1	1	0	600	600	0
3/20/2025 12:23	43801	SWIL_T1	61	66	5	0.31	0.28	-0.03	0	0	0	0	0	0	0	0
3/20/2025 12:23	43802	SWIL_T1	6	7	1	0.25	0.53	0.28	-0.32	-0.31	1	1	0	600	600	0
3/20/2025 12:25	61002	DONV_T2	0	2	2	0	0.1	0.1	-1.38	-1.38	2	2	0	1200	1200	0
3/20/2025 12:25	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 12:25	10101	ALLE_T3	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
3/20/2025 12:26	24101	EHAZ_T1	3	2	-1	0.53	0.85	0.32	0	0	0	0	0	0	0	0
3/20/2025 12:26	24104	EHAZ_T1	4	7	3	0.35	0.33	-0.02	-2.21	-2.23	1	1	0	1200	1200	0
3/20/2025 12:26	24105	EHAZ_T1	4	4	0	5.58	6.13	0.55	0	0	0	0	0	0	0	0
3/20/2025 12:27	52204	DEVO_T2	1	1	0	0.8	1.8	1	0	0	0	0	0	0	0	0
3/20/2025 12:27	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 12:28	53902	HALI_T2	5	7	2	1.8	1.43	-0.37	-0.3	-0.26	0	0	0	0	0	0
3/20/2025 12:28	53901	HALI_T2	6	9	3	0.47	0.47	0	-2.16	-2.24	0	0	0	0	0	0
3/20/2025 12:28	53903	HALI_T2	15	15	0	0.83	0.85	0.02	0	0	0	0	0	0	0	0
3/20/2025 12:28	61001	DONV_T1	1	2	1	0.8	0.95	0.15	-0.09	-0.11	0	0	0	0	0	0
3/20/2025 12:28	41204	KENM_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
3/20/2025 12:28	41202	KENM_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/20/2025 12:29	53901	HALI_T2	6	9	3	0.47	0.47	0	-1.08	-1.12	0	0	0	0	0	0
3/20/2025 12:29	53902	HALI_T2	5	7	2	1.8	1.43	-0.37	0	0	0	0	0	0	0	0
3/20/2025 12:29	53903	HALI_T2	15	15	0	0.83	0.85	0.02	0	0	0	0	0	0	0	0
3/20/2025 12:32	53901	HALI_T2	9	9	0	0.37	0.52	0.15	0	0	0	0	0	0	0	0
3/20/2025 12:32	53902	HALI_T2	7	6	-1	1.4	1.6	0.2	0	0	0	0	0	0	0	0
3/20/2025 12:32	53903	HALI_T2	15	16	1	0.83	0.83	0	-0.14	-0.16	0	0	0	0	0	0
3/20/2025 12:33	53901	HALI_T2	9	9	0	0.37	0.52	0.15	-1.08	-1.12	0	0	0	0	0	0
3/20/2025 12:33	47401	PENS_T1	5	4	-1	1.22	0.98	-0.24	1	0.89	0	0	0	0	0	0
3/20/2025 12:33	48303	ORWI_T2	2	2	0	0.65	0.35	-0.3	0	0	0	0	0	0	0	0
3/20/2025 12:33	47402	PENS_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/20/2025 12:33	53903	HALI_T2	15	16	1	0.83	0.83	0	0	0	0	0	0	0	0	0
3/20/2025 12:33	53902	HALI_T2	7	6	-1	1.4	1.6	0.2	-0.3	-0.26	0	0	0	0	0	0
3/20/2025 12:33	48302	ORWI_T2	3	2	-1	6.3	9.1	2.8	-0.09	-0.09	0	0	0	0	0	0
3/20/2025 12:33	47403	PENS_T1	3	3	0	0.87	0.73	-0.14	0	0	0	0	0	0	0	0
3/20/2025 12:34	41001	LAUR_T2	77	37	-40	0.36	0.23	-0.13	0	0	0	0	0	0	0	0
3/20/2025 12:34	52101	MEIS_T1	2	1	-1	0.85	0.4	-0.45	0	0	0	0	0	0	0	0
3/20/2025 12:34	41002	LAUR_T2	51	12	-39	0.3	0.38	0.08	-1.02	-1.04	0	0	0	0	0	0
3/20/2025 12:34	47401	PENS_T1	5	4	-1	1.22	0.98	-0.24	2	1.78	0	0	0	0	0	0
3/20/2025 12:34	52102	MEIS_T1	6	0	-6	0.62	0	-0.62	0	0	1	1	0	450	450	0
3/20/2025 12:34	47402	PENS_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/20/2025 12:34	47403	PENS_T1	3	3	0	0.87	0.73	-0.14	0	0	0	0	0	0	0	0
3/20/2025 12:35	47401	PENS_T1	5	4	-1	1.22	0.98	-0.24	1	0.89	0	0	0	0	0	0
3/20/2025 12:35	47402	PENS_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/20/2025 12:35	41601	CLEV_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
3/20/2025 12:35	47403	PENS_T1	3	3	0	0.87	0.73	-0.14	0	0	0	0	0	0	0	0
3/20/2025 12:35	41602	CLEV_T1	6	7	1	0.63	0.69	0.06	0	0	0	0	0	0	0	0
3/20/2025 12:36	41601	CLEV_T1	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
3/20/2025 12:36	41602	CLEV_T1	6	7	1	0.63	0.69	0.06	0	0	0	0	0	0	0	0
3/20/2025 12:36	48302	ORWI_T2	3	2	-1	6.3	9.1	2.8	-0.09	-0.09	0	0	0	0	0	0
3/20/2025 12:36	48303	ORWI_T2	2	2	0	0.65	0.35	-0.3	0	0	0	0	0	0	0	0
3/20/2025 12:38	16302	ALPA_T2	7	5	-2	0.5	0.52	0.02	0.56	0.52	0	0	0	0	0	0
3/20/2025 12:39	16302	ALPA_T2	7	5	-2	0.5	0.52	0.02	1.12	1.05	0	0	0	0	0	0
3/20/2025 12:41	50505	MECH_T1	1	1	0	0.8	0.6	-0.2	0	0	0	0	0	0	0	0
3/20/2025 12:41	16302	ALPA_T2	7	5	-2	0.5	0.52	0.02	0.56	0.52	0	0	0	0	0	0
3/20/2025 12:41	50502	MECH_T1	5	2	-3	0.48	1	0.52	0	0	0	0	0	0	0	0
3/20/2025 12:41	50504	MECH_T1	4	4	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/20/2025 12:41	50501	MECH_T1	4	4	0	0.38	0.28	-0.1	0.04	0.12	0	0	0	0	0	0
3/20/2025 12:41	50503	MECH_T1	2	2	0	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
3/20/2025 12:41	50506	MECH_T1	5	3	-2	0.5	0.93	0.43	0	0	0	0	0	0	0	0
3/20/2025 12:42	53901	HALI_T2	9	9	0	0.37	0.52	0.15	-1.12	-1.08	0	0	0	0	0	0
3/20/2025 12:42	44302	BEAV_T2	2	1	-1	0.35	0.1	-0.25	0	0	0	0	0	0	0	0
3/20/2025 12:42	44301	BEAV_T2	3	1	-2	3.1	0.1	-3	0	0	0	0	0	0	0	0
3/20/2025 12:42	53902	HALI_T2	7	6	-1	1.4	1.6	0.2	0	0	0	0	0	0	0	0
3/20/2025 12:42	53903	HALI_T2	15	16	1	0.83	0.83	0	0	0	0	0	0	0	0	0
3/20/2025 12:43	15603	NSTR_T2	1	3	2	0.7	0.37	-0.33	0	0	0	0	0	0	0	0
3/20/2025 12:43	15602	NSTR_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/20/2025 12:43	15601	NSTR_T2	3	12	9	0.47	0.47	0	0	0	0	0	0	0	0	0
3/20/2025 12:43	40101	HUNT_T2	4	3	-1	0.48	0.37	-0.11	-1.76	-1.76	0	0	0	0	0	0
3/20/2025 12:44	17401	FOHI_T1	0	1	1	0	0.2	0.2	-1.03	-0.98	0	0	0	0	0	0
3/20/2025 12:44	40101	HUNT_T2	4	3	-1	0.48	0.37	-0.11	-1.76	-1.76	0	0	0	0	0	0
3/20/2025 12:44	47101	MARL_T1	1	0	-1	0.2	0	-0.2	-1.34	-1.36	0	0	0	0	0	0
3/20/2025 12:45	46801	HEPB_T2	21	10	-11	0.28	0.41	0.13	0	0	0	0	0	0	0	0
3/20/2025 12:45	46803	HEPB_T2	11	8	-3	0.34	0.38	0.04	0	0	0	0	0	0	0	0
3/20/2025 12:46	46506	LOHA_T1	13	10	-3	1.68	2.02	0.34	0	0	0	0	0	0	0	0
3/20/2025 12:46	46504	LOHA_T1	3	42	39	0.37	0.42	0.05	0	0	0	0	0	0	0	0
3/20/2025 12:46	46501	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 12:46	46503	LOHA_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/20/2025 12:47	46503	LOHA_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/20/2025 12:47	40101	HUNT_T2	3	1	-2	0.37	0.4	0.03	-1.76	-1.76	0	0	0	0	0	0
3/20/2025 12:47	53903	HALI_T2	14	20	6	0.78	0.72	-0.06	0	0	0	0	0	0	0	0
3/20/2025 12:47	46501	LOHA_T1	0	1	1	0	0.1	0.1	-0.07	-0.01	1	1	0	1200	1200	0
3/20/2025 12:47	46504	LOHA_T1	3	42	39	0.37	0.42	0.05	0	0	0	0	0	0	0	0
3/20/2025 12:47	53902	HALI_T2	6	7	1	1.6	1.37	-0.23	0	0	0	0	0	0	0	0
3/20/2025 12:47	46506	LOHA_T1	13	10	-3	1.68	2.02	0.34	-0.19	-0.18	0	0	0	0	0	0
3/20/2025 12:47	53901	HALI_T2	7	10	3	0.53	0.53	0	-1.12	-1.08	0	0	0	0	0	0
3/20/2025 12:48	42903	MIDD_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/20/2025 12:48	42902	MIDD_T2	3	3	0	0.77	0.83	0.06	0	0	0	0	0	0	0	0
3/20/2025 12:48	46803	HEPB_T2	11	8	-3	0.34	0.38	0.04	0	0	0	0	0	0	0	0
3/20/2025 12:48	46801	HEPB_T2	21	10	-11	0.28	0.41	0.13	0.5	0.55	0	0	0	0	0	0
3/20/2025 12:49	46504	LOHA_T1	3	42	39	0.37	0.42	0.05	0	0	0	0	0	0	0	0
3/20/2025 12:49	42902	MIDD_T2	3	3	0	0.77	0.83	0.06	-1.96	-1.96	2	2	0	1200	1200	0
3/20/2025 12:49	46506	LOHA_T1	13	10	-3	1.68	2.02	0.34	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/20/2025 12:49	46801	HEPB_T2	21	10	-11	0.28	0.41	0.13	0.5	0.55	0	0	0	0	0	0
3/20/2025 12:49	46501	LOHA_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 12:49	46503	LOHA_T1	2	2	0	0.7	0.55	-0.15	0	0	0	0	0	0	0	0
3/20/2025 12:49	42903	MIDD_T2	2	0	-2	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/20/2025 12:49	46803	HEPB_T2	11	8	-3	0.34	0.38	0.04	0	0	0	0	0	0	0	0
3/20/2025 12:54	52402	GRPA_T2	80	68	-12	0.33	0.33	0	0	0	0	0	0	0	0	0
3/20/2025 12:54	60801	BUCK_T1	42	7	-35	0.28	0.34	0.06	0	0	0	0	0	0	0	0
3/20/2025 12:54	52401	GRPA_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
3/20/2025 12:54	13901	SEID_T1	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/20/2025 12:54	60803	BUCK_T1	21	9	-12	0.23	0.17	-0.06	-0.56	-0.54	1	1	0	600	600	0
3/20/2025 12:54	13903	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 12:54	13902	SEID_T1	2	2	0	1.3	0.7	-0.6	0	0	0	0	0	0	0	0
3/20/2025 12:54	13905	SEID_T1	5	2	-3	0.34	0.45	0.11	0	0	0	0	0	0	0	0
3/20/2025 12:54	52403	GRPA_T2	35	28	-7	0.79	0.78	-0.01	0	0	0	0	0	0	0	0
3/20/2025 12:56	41601	CLEV_T1	1	2	1	0.7	0.5	-0.2	0	0	0	0	0	0	0	0
3/20/2025 12:56	41602	CLEV_T1	4	7	3	0.98	0.7	-0.28	0	0	0	0	0	0	0	0
3/20/2025 12:59	52401	GRPA_T2	2	2	0	0.25	0.4	0.15	0	0	0	0	0	0	0	0
3/20/2025 12:59	17804	GILB_T2	13	15	2	0.61	0.59	-0.02	0	0	0	0	0	0	0	0
3/20/2025 12:59	52402	GRPA_T2	80	68	-12	0.33	0.33	0	0	0	0	0	0	0	0	0
3/20/2025 12:59	17803	GILB_T2	12	0	-12	0.28	0	-0.28	0	0	0	0	0	0	0	0
3/20/2025 12:59	17805	GILB_T2	6	8	2	0.7	0.66	-0.04	0	0	0	0	0	0	0	0
3/20/2025 12:59	52403	GRPA_T2	35	28	-7	0.79	0.78	-0.01	0	0	0	0	0	0	0	0
3/20/2025 13:03	47402	PENS_T1	2	4	2	0.45	0.58	0.13	0	0	0	0	0	0	0	0
3/20/2025 13:03	47401	PENS_T1	4	4	0	0.9	1.35	0.45	0.97	1.01	0	0	0	0	0	0
3/20/2025 13:03	47403	PENS_T1	3	6	3	0.73	0.75	0.02	0	0	0	0	0	0	0	0
3/20/2025 13:04	47402	PENS_T1	2	4	2	0.45	0.58	0.13	0	0	0	0	0	0	0	0
3/20/2025 13:04	47403	PENS_T1	3	6	3	0.73	0.75	0.02	0	0	0	0	0	0	0	0
3/20/2025 13:04	47401	PENS_T1	4	4	0	0.9	1.35	0.45	0	0	0	0	0	0	0	0
3/20/2025 13:04	44203	POIN_T2	0	1	1	0	0.2	0.2	-0.65	-0.55	2	2	0	2100	2100	0
3/20/2025 13:05	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/20/2025 13:05	66502	SMAN_T2	1	7	6	0.5	0.23	-0.27	0.29	0.18	0	0	0	0	0	0
3/20/2025 13:05	66503	SMAN_T2	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
3/20/2025 13:05	47402	PENS_T1	2	4	2	0.45	0.58	0.13	0	0	0	0	0	0	0	0
3/20/2025 13:05	66504	SMAN_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/20/2025 13:05	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/20/2025 13:05	45801	HEGI_T1	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/20/2025 13:05	47403	PENS_T1	3	6	3	0.73	0.75	0.02	0	0	0	0	0	0	0	0
3/20/2025 13:05	47401	PENS_T1	4	4	0	0.9	1.35	0.45	0.97	1.01	0	0	0	0	0	0
3/20/2025 13:06	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/20/2025 13:06	66504	SMAN_T2	1	1	0	0.7	0.7	0	-0.53	-0.63	0	0	0	0	0	0
3/20/2025 13:06	66503	SMAN_T2	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
3/20/2025 13:06	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/20/2025 13:06	66502	SMAN_T2	1	7	6	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
3/20/2025 13:07	66502	SMAN_T2	1	7	6	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
3/20/2025 13:07	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/20/2025 13:07	66503	SMAN_T2	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
3/20/2025 13:07	66504	SMAN_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/20/2025 13:07	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/20/2025 13:08	16302	ALPA_T2	1	1	0	0.2	0.4	0.2	0.56	0.65	0	0	0	0	0	0
3/20/2025 13:09	40501	CRES_T2	3	6	3	0.5	0.22	-0.28	0	0	0	0	0	0	0	0
3/20/2025 13:09	45801	HEGI_T1	2	1	-1	0.3	0.1	-0.2	0	0	0	0	0	0	0	0
3/20/2025 13:09	66501	SMAN_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/20/2025 13:09	66504	SMAN_T2	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/20/2025 13:09	66505	SMAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/20/2025 13:09	66503	SMAN_T2	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
3/20/2025 13:09	66502	SMAN_T2	1	7	6	0.5	0.23	-0.27	0	0	0	0	0	0	0	0
3/20/2025 13:09	40502	CRES_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/20/2025 13:10	20402	ASHF_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
3/20/2025 13:10	20401	ASHF_T2	6	10	4	0.23	0.35	0.12	0.37	0.34	0	0	0	0	0	0
3/20/2025 13:10	20403	ASHF_T2	139	155	16	0.38	0.45	0.07	-0.17	-0.17	0	0	0	0	0	0
3/20/2025 13:11	16302	ALPA_T2	1	1	0	0.2	0.4	0.2	0.56	0.65	0	0	0	0	0	0
3/20/2025 13:11	40505	CRES_T1	0	0	0	0	0	0	0.78	0.79	0	0	0	0	0	0
3/20/2025 13:11	40504	CRES_T1	0	1	1	0	0.1	0.1	-1.44	-1.32	0	0	0	0	0	0
3/20/2025 13:12	40505	CRES_T1	0	0	0	0	0	0	0.26	0.26	0	0	0	0	0	0
3/20/2025 13:12	40504	CRES_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 13:13	20403	ASHF_T2	139	155	16	0.38	0.45	0.07	0	0	0	0	0	0	0	0
3/20/2025 13:13	20401	ASHF_T2	6	10	4	0.23	0.35	0.12	0.37	0.34	0	0	0	0	0	0
3/20/2025 13:13	40505	CRES_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
3/20/2025 13:13	20402	ASHF_T2	0	3	3	0	0.43	0.43	0	0	0	0	0	0	0	0
3/20/2025 13:13	40504	CRES_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 13:14	40504	CRES_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 13:14	40501	CRES_T2	3	6	3	0.5	0.22	-0.28	0	0	0	0	0	0	0	0
3/20/2025 13:14	40502	CRES_T2	1	0	-1	0.5	0	-0.5	0.15	0.16	0	0	0	0	0	0
3/20/2025 13:14	40505	CRES_T1	0	0	0	0	0	0	0.52	0.53	0	0	0	0	0	0
3/20/2025 13:15	40505	CRES_T1	0	4	4	0	0.33	0.33	0.78	0.79	0	0	0	0	0	0
3/20/2025 13:15	40504	CRES_T1	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
3/20/2025 13:16	40504	CRES_T1	1	3	2	0.1	0.37	0.27	0	0	0	0	0	0	0	0
3/20/2025 13:16	40505	CRES_T1	0	4	4	0	0.33	0.33	0.52	0.53	0	0	0	0	0	0
3/20/2025 13:21	50504	MECH_T1	3	3	0	0.17	0.27	0.1	0	0	0	0	0	0	0	0
3/20/2025 13:21	50501	MECH_T1	3	4	1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
3/20/2025 13:21	50503	MECH_T1	1	3	2	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
3/20/2025 13:21	50502	MECH_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
3/20/2025 13:21	50506	MECH_T1	3	5	2	0.93	0.6	-0.33	0.19	0.14	0	0	0	0	0	0
3/20/2025 13:21	50505	MECH_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/20/2025 13:22	14801	TREI_T2	54	112	58	0.19	0.44	0.25	0	0	0	0	0	0	0	0
3/20/2025 13:22	14802	TREI_T2	10	30	20	0.18	0.29	0.11	0.52	0.54	0	0	0	0	0	0
3/20/2025 13:22	50506	MECH_T1	3	5	2	0.93	0.6	-0.33	0.14	0.13	0	0	0	0	0	0
3/20/2025 13:22	50504	MECH_T1	3	3	0	0.17	0.27	0.1	0	0	0	0	0	0	0	0
3/20/2025 13:22	50505	MECH_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/20/2025 13:22	50501	MECH_T1	3	4	1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
3/20/2025 13:22	50503	MECH_T1	1	3	2	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
3/20/2025 13:22	50502	MECH_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
3/20/2025 13:23	50505	MECH_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/20/2025 13:23	50501	MECH_T1	3	4	1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
3/20/2025 13:23	50506	MECH_T1	3	5	2	0.93	0.6	-0.33	0.14	0.13	0	0	0	0	0	0
3/20/2025 13:23	50503	MECH_T1	1	3	2	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
3/20/2025 13:23	50504	MECH_T1	3	3	0	0.17	0.27	0.1	0	0	0	0	0	0	0	0
3/20/2025 13:23	50502	MECH_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
3/20/2025 13:24	14801	TREI_T2	54	112	58	0.19	0.44	0.25	0.24	0.25	0	0	0	0	0	0
3/20/2025 13:24	14802	TREI_T2	10	30	20	0.18	0.29	0.11	0	0	0	0	0	0	0	0
3/20/2025 13:25	45802	HEGI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 13:26	15602	NSTR_T2	1	2	1	0.6	0.45	-0.15	0	0	0	0	0	0	0	0
3/20/2025 13:26	15601	NSTR_T2	9	9	0	0.5	0.57	0.07	0	0	0	0	0	0	0	0
3/20/2025 13:26	15603	NSTR_T2	3	12	9	0.6	0.25	-0.35	0	0	0	0	0	0	0	0
3/20/2025 13:28	40801	EXCH_T2	2	1	-1	0.2	0.4	0.2	-0.54	-0.42	1	1	0	1200	1200	0
3/20/2025 13:28	40802	EXCH_T2	2	2	0	0.55	0.65	0.1	0	0	0	0	0	0	0	0
3/20/2025 13:28	41601	CLEV_T1	2	2	0	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
3/20/2025 13:28	41602	CLEV_T1	5	5	0	0.78	0.58	-0.2	0	0	0	0	0	0	0	0
3/20/2025 13:29	50501	MECH_T1	3	4	1	0.27	0.25	-0.02	0	0	0	0	0	0	0	0
3/20/2025 13:29	50502	MECH_T1	1	1	0	0.9	1.3	0.4	0	0	0	0	0	0	0	0
3/20/2025 13:29	50505	MECH_T1	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/20/2025 13:29	50503	MECH_T1	1	3	2	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
3/20/2025 13:29	50504	MECH_T1	3	3	0	0.17	0.27	0.1	0	0	0	0	0	0	0	0
3/20/2025 13:29	23901	EFMO_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
3/20/2025 13:29	50506	MECH_T1	3	5	2	0.93	0.6	-0.33	0	0	0	0	0	0	0	0
3/20/2025 13:30	53903	HALI_T2	17	18	1	0.74	0.73	-0.01	0	0	0	0	0	0	0	0
3/20/2025 13:30	53902	HALI_T2	8	8	0	1.25	1.3	0.05	0	0	0	0	0	0	0	0
3/20/2025 13:30	23901	EFMO_T2	0	0	0	0	0	0	0.06	0.05	0	0	0	0	0	0
3/20/2025 13:30	53901	HALI_T2	8	11	3	0.58	0.55	-0.03	-1.08	-1.1	0	0	0	0	0	0
3/20/2025 13:31	45802	HEGI_T2	38	7	-31	0.57	0.1	-0.47	1.82	2.46	0	0	0	0	0	0
3/20/2025 13:31	20603	GRWO_T2	0	84	84	0	0.24	0.24	0.31	0.38	0	0	0	0	0	0
3/20/2025 13:31	53902	HALI_T2	8	8	0	1.25	1.3	0.05	0	0	0	0	0	0	0	0
3/20/2025 13:31	53901	HALI_T2	8	11	3	0.58	0.55	-0.03	0	0	0	0	0	0	0	0
3/20/2025 13:31	53903	HALI_T2	17	18	1	0.74	0.73	-0.01	-0.26	-0.3	0	0	0	0	0	0
3/20/2025 13:32	27501	WEIS_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/20/2025 13:32	53902	HALI_T2	8	8	0	1.25	1.3	0.05	0	0	0	0	0	0	0	0
3/20/2025 13:32	53901	HALI_T2	8	11	3	0.58	0.55	-0.03	0	0	0	0	0	0	0	0
3/20/2025 13:32	53903	HALI_T2	17	18	1	0.74	0.73	-0.01	0	0	0	0	0	0	0	0
3/20/2025 13:32	27504	WEIS_T1	1	0	-1	2.8	0	-2.8	0.4	0.41	0	0	0	0	0	0
3/20/2025 13:34	65702	RVIL_T2	15	3	-12	0.23	0.33	0.1	-0.73	-0.83	0	0	0	0	0	0
3/20/2025 13:35	65702	RVIL_T2	15	3	-12	0.23	0.33	0.1	-2.19	-2.49	0	0	0	0	0	0
3/20/2025 13:36	65702	RVIL_T2	15	3	-12	0.23	0.33	0.1	-2.49	-2.43	0	0	0	0	0	0
3/20/2025 13:36	65703	RVIL_T1	2	2	0	0.65	0.45	-0.2	-0.16	-0.22	0	0	0	0	0	0
3/20/2025 13:36	65206	PRIN_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 13:36	65207	PRIN_T4	2	2	0	2.55	2.6	0.05	0	0	0	0	0	0	0	0
3/20/2025 13:36	65701	RVIL_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/20/2025 13:37	65702	RVIL_T2	15	3	-12	0.23	0.33	0.1	-0.83	-0.81	0	0	0	0	0	0
3/20/2025 13:37	65703	RVIL_T1	2	2	0	0.65	0.45	-0.2	0	0	0	0	0	0	0	0
3/20/2025 13:37	67603	WARW_T1	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
3/20/2025 13:37	67605	WARW_T1	53	56	3	0.65	0.6	-0.05	-1.1	-1.13	0	0	0	0	0	0
3/20/2025 13:37	67605	WARW_T1	53	56	3	0.65	0.6	-0.05	-1.1	-1.13	0	0	0	0	0	0
3/20/2025 13:37	67605	WARW_T1	53	56	3	0.65	0.6	-0.05	-1.1	-1.13	0	0	0	0	0	0
3/20/2025 13:37	67605	WARW_T1	53	56	3	0.65	0.6	-0.05	-1.1	-1.13	0	0	0	0	0	0
3/20/2025 13:37	65701	RVIL_T1	1	1	0	0.5	0.1	-0.4	-0.36	-0.36	0	0	0	0	0	0
3/20/2025 13:38	67605	WARW_T1	53	56	3	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
3/20/2025 13:38	67603	WARW_T1	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
3/20/2025 13:41	45802	HEGI_T2	38	7	-31	0.57	0.1	-0.47	0	0	0	0	0	0	0	0
3/20/2025 13:42	24104	EHAZ_T1	2	7	5	0.25	0.33	0.08	0	0	0	0	0	0	0	0
3/20/2025 13:42	24101	EHAZ_T1	12	2	-10	0.37	0.4	0.03	0	0	0	0	0	0	0	0
3/20/2025 13:42	24105	EHAZ_T1	4	4	0	6	5.73	-0.27	-2.11	-2.11	1	1	0	1200	1200	0
3/20/2025 13:43	24103	EHAZ_T1	0	0	0	0	0	0	-1.28	-0.39	0	0	0	0	0	0
3/20/2025 13:43	24105	EHAZ_T1	4	4	0	6	5.73	-0.27	0	0	0	0	0	0	0	0
3/20/2025 13:43	24101	EHAZ_T1	12	2	-10	0.37	0.4	0.03	0	0	0	0	0	0	0	0
3/20/2025 13:43	41801	GOCI_T2	340	345	5	1.03	0.93	-0.1	0	0	0	0	0	0	0	0
3/20/2025 13:43	41802	GOCI_T2	1	3	2	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
3/20/2025 13:43	24104	EHAZ_T1	2	7	5	0.25	0.33	0.08	0	0	0	0	0	0	0	0
3/20/2025 13:44	41602	CLEV_T1	5	4	-1	0.58	0.6	0.02	0	0	0	0	0	0	0	0
3/20/2025 13:44	65702	RVIL_T2	15	3	-12	0.23	0.33	0.1	-0.83	-0.81	0	0	0	0	0	0
3/20/2025 13:44	41801	GOCI_T2	340	345	5	1.03	0.93	-0.1	0	0	0	0	0	0	0	0
3/20/2025 13:44	41601	CLEV_T1	2	1	-1	0.45	0.7	0.25	0	0	0	0	0	0	0	0
3/20/2025 13:44	41802	GOCI_T2	1	3	2	0.5	0.37	-0.13	0	0	0	0	0	0	0	0
3/20/2025 13:45	41801	GOCI_T2	338	349	11	0.92	0.9	-0.02	0	0	0	0	0	0	0	0
3/20/2025 13:45	41802	GOCI_T2	1	3	2	0.5	0.43	-0.07	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/20/2025 13:46	41802	GOCI_T2	1	3	2	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
3/20/2025 13:46	41801	GOCI_T2	338	349	11	0.92	0.9	-0.02	0	0	0	0	0	0	0	0
3/20/2025 13:47	10903	COOP_T2	2	2	0	0.5	0.45	-0.05	-0.27	-0.2	1	1	0	600	600	0
3/20/2025 13:47	41801	GOCI_T2	338	349	11	0.92	0.9	-0.02	0	0	0	0	0	0	0	0
3/20/2025 13:47	41802	GOCI_T2	1	3	2	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
3/20/2025 13:47	41702	LOGA_T2	3	3	0	0.33	0.37	0.04	0	0	0	0	0	0	0	0
3/20/2025 13:48	47401	PENS_T1	5	5	0	1.28	1.34	0.06	1.02	0.98	0	0	0	0	0	0
3/20/2025 13:48	47403	PENS_T1	6	4	-2	0.95	0.68	-0.27	0	0	0	0	0	0	0	0
3/20/2025 13:48	47402	PENS_T1	7	3	-4	0.56	0.53	-0.03	0	0	0	0	0	0	0	0
3/20/2025 13:49	14401	SSLA_T1	29	33	4	0.37	0.42	0.05	0	0	0	0	0	0	0	0
3/20/2025 13:49	14404	SSLA_T1	62	110	48	0.25	0.27	0.02	0	0	0	0	0	0	0	0
3/20/2025 13:49	14403	SSLA_T1	10	19	9	0.5	0.58	0.08	0	0	0	0	0	0	0	0
3/20/2025 13:49	14402	SSLA_T1	202	221	19	0.21	0.25	0.04	0	0	0	0	0	0	0	0
3/20/2025 13:50	23901	EFMO_T2	0	0	0	0	0	0	0.05	0.05	0	0	0	0	0	0
3/20/2025 13:52	14403	SSLA_T1	10	19	9	0.5	0.58	0.08	0	0	0	0	0	0	0	0
3/20/2025 13:52	14402	SSLA_T1	202	221	19	0.21	0.25	0.04	0	0	0	0	0	0	0	0
3/20/2025 13:52	14404	SSLA_T1	62	110	48	0.25	0.27	0.02	-0.07	-0.08	0	0	0	0	0	0
3/20/2025 13:52	14401	SSLA_T1	29	33	4	0.37	0.42	0.05	-0.59	-0.57	0	0	0	0	0	0
3/20/2025 13:53	67603	WARW_T1	2	0	-2	0.95	0	-0.95	0	0	0	0	0	0	0	0
3/20/2025 13:53	67605	WARW_T1	56	31	-25	0.6	0.61	0.01	-1.13	-1.13	0	0	0	0	0	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:54	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:55	14402	SSLA_T1	202	221	19	0.21	0.25	0.04	0	0	0	0	0	0	0	0
3/20/2025 13:55	14403	SSLA_T1	10	19	9	0.5	0.58	0.08	0.55	0.51	0	0	0	0	0	0
3/20/2025 13:55	67605	WARW_T1	56	31	-25	0.6	0.61	0.01	0	0	0	0	0	0	0	0
3/20/2025 13:55	14404	SSLA_T1	62	110	48	0.25	0.27	0.02	0	0	0	0	0	0	0	0
3/20/2025 13:55	14401	SSLA_T1	29	33	4	0.37	0.42	0.05	0	0	0	0	0	0	0	0
3/20/2025 13:55	67603	WARW_T1	2	0	-2	0.95	0	-0.95	0	0	0	0	0	0	0	0
3/20/2025 13:56	55101	WERT_T1	0	0	0	0	0	0	-0.86	-0.91	2	2	0	1500	1500	0
3/20/2025 13:56	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	0	0	0	0	0	0	0	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55105	WERT_T1	4	3	-1	0.13	0.2	0.07	-0.77	-0.76	1	1	0	900	900	0
3/20/2025 13:57	55101	WERT_T1	0	0	0	0	0	0	-0.86	-0.91	2	2	0	1500	1500	0
3/20/2025 13:57	41601	CLEV_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/20/2025 13:57	41602	CLEV_T1	5	3	-2	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/20/2025 14:00	41202	KENM_T2	2	1	-1	0.35	0.4	0.05	0	0	0	0	0	0	0	0
3/20/2025 14:00	41205	KENM_T2	0	0	0	0	0	0	-0.77	-0.79	1	1	0	600	600	0
3/20/2025 14:00	41204	KENM_T2	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/20/2025 14:01	21703	SUBU_T1	0	1	1	0	0.2	0.2	0.46	0.49	0	0	0	0	0	0
3/20/2025 14:01	21701	SUBU_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
3/20/2025 14:01	21704	SUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 14:01	52401	GRPA_T2	2	1	-1	0.45	1	0.55	0	0	0	0	0	0	0	0
3/20/2025 14:01	52403	GRPA_T2	30	35	5	0.83	0.78	-0.05	0	0	0	0	0	0	0	0
3/20/2025 14:01	21705	SUBU_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
3/20/2025 14:01	52402	GRPA_T2	87	13	-74	0.36	0.58	0.22	0	0	0	0	0	0	0	0
3/20/2025 14:01	21702	SUBU_T1	2	1	-1	5.2	4.4	-0.8	0	0	0	0	0	0	0	0
3/20/2025 14:03	27503	WEIS_T2	6	8	2	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
3/20/2025 14:03	27502	WEIS_T2	2	2	0	0.5	0.55	0.05	0	0	0	0	0	0	0	0
3/20/2025 14:04	27502	WEIS_T2	2	2	0	0.5	0.55	0.05	-1.14	-1.18	0	0	0	0	0	0
3/20/2025 14:04	65901	SAKR_T2	1	1	0	8.2	8.4	0.2	-1.55	-1.71	1	2	1	900	1500	600
3/20/2025 14:04	58401	MORO_T1	8	2	-6	0.29	0.2	-0.09	0	0	0	0	0	0	0	0
3/20/2025 14:04	58402	MORO_T1	1	0	-1	0.1	0	-0.1	-0.15	-0.14	2	2	0	1500	1500	0
3/20/2025 14:04	27503	WEIS_T2	6	8	2	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
3/20/2025 14:06	66903	SHIL_T2	3	2	-1	0.23	0.2	-0.03	-3.54	-3.57	0	0	0	0	0	0
3/20/2025 14:06	66901	SHIL_T2	2	3	1	0.3	0.47	0.17	0	0	0	0	0	0	0	0
3/20/2025 14:06	66902	SHIL_T2	3	4	1	0.23	0.48	0.25	-1.03	-1.02	0	0	0	0	0	0
3/20/2025 14:07	47402	PENS_T1	2	6	4	0.7	0.37	-0.33	0	0	0	0	0	0	0	0
3/20/2025 14:07	47403	PENS_T1	1	6	5	1.4	0.58	-0.82	0	0	0	0	0	0	0	0
3/20/2025 14:07	66902	SHIL_T2	3	4	1	0.23	0.48	0.25	0	0	0	0	0	0	0	0
3/20/2025 14:07	66901	SHIL_T2	2	3	1	0.3	0.47	0.17	0	0	0	0	0	0	0	0
3/20/2025 14:07	47401	PENS_T1	5	5	0	1.34	1.22	-0.12	1.06	1.01	0	0	0	0	0	0
3/20/2025 14:07	66903	SHIL_T2	3	2	-1	0.23	0.2	-0.03	-1.18	-1.19	0	0	0	0	0	0
3/20/2025 14:08	22602	KIMB_T1	1	1	0	0.2	0.3	0.1	0.48	0.5	0	0	0	0	0	0
3/20/2025 14:08	46004	BERW_T2	2	1	-1	0.6	1.6	1	-0.35	-0.41	0	0	0	0	0	0
3/20/2025 14:08	66901	SHIL_T2	2	3	1	0.3	0.47	0.17	-0.51	-0.49	0	0	0	0	0	0
3/20/2025 14:08	52401	GRPA_T2	2	1	-1	0.45	1	0.55	0	0	0	0	0	0	0	0
3/20/2025 14:08	14404	SSLA_T1	95	103	8	0.25	0.27	0.02	0	0	0	0	0	0	0	0
3/20/2025 14:08	14401	SSLA_T1	25	33	8	0.4	0.4	0	-0.57	-0.47	0	0	0	0	0	0
3/20/2025 14:08	67901	WNHO_T2	0	0	0	0	0	0	0.4	0.28	1	1	0	900	900	0
3/20/2025 14:08	52402	GRPA_T2	87	13	-74	0.36	0.58	0.22	0	0	0	0	0	0	0	0
3/20/2025 14:08	14402	SSLA_T1	205	191	-14	0.24	0.24	0	0	0	0	0	0	0	0	0
3/20/2025 14:08	46002	BERW_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/20/2025 14:08	66903	SHIL_T2	3	2	-1	0.23	0.2	-0.03	0	0	0	0	0	0	0	0
3/20/2025 14:08	52403	GRPA_T2	30	35	5	0.83	0.78	-0.05	0	0	0	0	0	0	0	0
3/20/2025 14:08	14403	SSLA_T1	15	18	3	0.54	0.59	0.05	0.51	0.48	0	0	0	0	0	0
3/20/2025 14:08	66902	SHIL_T2	3	4	1	0.23	0.48	0.25	-2.06	-2.04	0	0	0	0	0	0
3/20/2025 14:08	46003	BERW_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/20/2025 14:08	16801	WAGN_T1	16	26	10	0.12	0.12	0	0	0	0	0	0	0	0	0
3/20/2025 14:09	65901	SAKR_T2	1	1	0	8.2	8.4	0.2	-1.71	-1.74	2	2	0	1500	1500	0
3/20/2025 14:10	46001	BERW_T1	4	3	-1	0.2	0.23	0.03	0.59	0.6	0	0	0	0	0	0
3/20/2025 14:10	13902	SEID_T1	0	2	2	0	0.35	0.35	0	0	0	0	0	0	0	0
3/20/2025 14:10	46005	BERW_T1	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
3/20/2025 14:11	52401	GRPA_T2	2	1	-1	0.45	1	0.55	0	0	0	0	0	0	0	0
3/20/2025 14:11	46005	BERW_T1	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
3/20/2025 14:11	46001	BERW_T1	4	3	-1	0.2	0.23	0.03	0.59	0.6	0	0	0	0	0	0
3/20/2025 14:11	52402	GRPA_T2	87	13	-74	0.36	0.58	0.22	0	0	0	0	0	0	0	0
3/20/2025 14:11	52403	GRPA_T2	30	35	5	0.83	0.78	-0.05	0	0	0	0	0	0	0	0
3/20/2025 14:12	41601	CLEV_T1	1	1	0	0.7	0.6	-0.1	0	0	0	0	0	0	0	0
3/20/2025 14:12	46005	BERW_T1	2	2	0	0.45	0.7	0.25	0	0	0	0	0	0	0	0
3/20/2025 14:12	41602	CLEV_T1	3	3	0	0.7	0.67	-0.03	0	0	0	0	0	0	0	0
3/20/2025 14:12	46001	BERW_T1	4	3	-1	0.2	0.23	0.03	0.59	0.6	0	0	0	0	0	0
3/20/2025 14:15	15203	SFAR_T2	2	2	0	0.3	0.4	0.1	-0.73	-0.69	0	0	0	0	0	0
3/20/2025 14:15	41601	CLEV_T1	1	1	0	0.6	0.4	-0.2	0	0	0	0	0	0	0	0
3/20/2025 14:15	41602	CLEV_T1	3	2	-1	0.63	0.95	0.32	0	0	0	0	0	0	0	0
3/20/2025 14:16	41204	KENM_T2	1	1	0	0.8	0.9	0.1	0	0.01	0	0	0	0	0	0
3/20/2025 14:16	41202	KENM_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/20/2025 14:17	52403	GRPA_T2	35	21	-14	0.78	0.52	-0.26	0	0	0	0	0	0	0	0
3/20/2025 14:17	52402	GRPA_T2	12	12	0	0.51	0.55	0.04	0	0	0	0	0	0	0	0
3/20/2025 14:17	52401	GRPA_T2	1	1	0	1	0.5	-0.5	0	0	0	0	0	0	0	0
3/20/2025 14:23	16301	ALPA_T1	0	2	2	0	1	1	-0.11	-0.1	0	0	0	0	0	0
3/20/2025 14:24	42503	ALTA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/20/2025 14:24	42501	ALTA_T2	1	3	2	0.3	0.17	-0.13	0.63	0.63	0	0	0	0	0	0
3/20/2025 14:24	22602	KIMB_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/20/2025 14:24	16301	ALPA_T1	0	2	2	0	1	1	-0.22	-0.2	0	0	0	0	0	0
3/20/2025 14:24	22601	KIMB_T1	0	0	0	0	0	0	0.23	0.22	0	0	0	0	0	0
3/20/2025 14:25	46204	DANV_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/20/2025 14:25	13902	SEID_T1	1	2	1	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/20/2025 14:25	16301	ALPA_T1	0	2	2	0	1	1	0	0	0	0	0	0	0	0
3/20/2025 14:25	46203	DANV_T2	149	163	14	0.6	0.88	0.28	0	0	0	0	0	0	0	0
3/20/2025 14:25	46205	DANV_T2	3	18	15	0.27	0.13	-0.14	-0.74	0.54	1	0	-1	1200	0	-1200
3/20/2025 14:25	46201	DANV_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/20/2025 14:26	16301	ALPA_T1	0	2	2	0	1	1	-0.11	-0.1	0	0	0	0	0	0
3/20/2025 14:27	42503	ALTA_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/20/2025 14:27	42501	ALTA_T2	1	3	2	0.3	0.17	-0.13	0.63	0.63	0	0	0	0	0	0
3/20/2025 14:27	16301	ALPA_T1	0	2	2	0	1	1	-0.22	-0.2	0	0	0	0	0	0
3/20/2025 14:29	64204	KINZ_T1	69	75	6	1.29	1.67	0.38	0	0	0	0	0	0	0	0
3/20/2025 14:29	64203	KINZ_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/20/2025 14:29	64201	KINZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/20/2025 14:29	64202	KINZ_T1	5	7	2	0.56	0.81	0.25	0	0	0	0	0	0	0	0
3/20/2025 14:29	10101	ALLE_T3	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
3/20/2025 14:29	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 14:30	64201	KINZ_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/20/2025 14:30	52002	LING_T2	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
3/20/2025 14:30	65901	SAKR_T2	1	1	0	8.4	8.8	0.4	-1.74	-1.71	2	2	0	1500	1500	0
3/20/2025 14:30	52006	LING_T2	4	2	-2	0.65	1	0.35	0	0	0	0	0	0	0	0
3/20/2025 14:30	64202	KINZ_T1	7	5	-2	0.81	0.42	-0.39	0.78	0.77	0	0	0	0	0	0
3/20/2025 14:30	52004	LING_T2	14	5	-9	1.56	3	1.44	0	0	0	0	0	0	0	0
3/20/2025 14:30	64203	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/20/2025 14:30	64204	KINZ_T1	75	72	-3	1.67	1.58	-0.09	0	0	0	0	0	0	0	0
3/20/2025 14:31	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 14:32	64202	KINZ_T1	7	5	-2	0.81	0.42	-0.39	0	0	0	0	0	0	0	0
3/20/2025 14:32	64203	KINZ_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/20/2025 14:32	64204	KINZ_T1	75	72	-3	1.67	1.58	-0.09	0	0	0	0	0	0	0	0
3/20/2025 14:32	64201	KINZ_T1	1	0	-1	0.2	0	-0.2	-1.14	-0.68	6	4	-2	3000	2400	-600
3/20/2025 14:33	54206	PENN_T2	0	5	5	0	0.3	0.3	0	0	0	0	0	0	0	0
3/20/2025 14:33	54202	PENN_T2	0	3	3	0	0.4	0.4	0	0	0	0	0	0	0	0
3/20/2025 14:34	66503	SMAN_T2	2	2	0	0.55	0.9	0.35	0	0	0	0	0	0	0	0
3/20/2025 14:34	52004	LING_T2	14	5	-9	1.56	3	1.44	0.15	0.17	0	0	0	0	0	0
3/20/2025 14:34	66505	SMAN_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/20/2025 14:34	52002	LING_T2	1	1	0	1.6	1.6	0	0	0	0	0	0	0	0	0
3/20/2025 14:34	52006	LING_T2	4	2	-2	0.65	1	0.35	0	0	0	0	0	0	0	0
3/20/2025 14:34	66501	SMAN_T2	2	2	0	0.55	0.9	0.35	0	0	0	0	0	0	0	0
3/20/2025 14:34	66502	SMAN_T2	7	17	10	0.31	0.36	0.05	0	0	0	0	0	0	0	0
3/20/2025 14:34	66504	SMAN_T2	2	8	6	1.25	0.53	-0.72	0	0	0	0	0	0	0	0
3/20/2025 14:35	65901	SAKR_T2	1	1	0	8.4	8.8	0.4	-1.74	-1.71	2	2	0	1500	1500	0
3/20/2025 14:36	66504	SMAN_T2	2	8	6	1.25	0.53	-0.72	-1.29	-1.17	0	0	0	0	0	0
3/20/2025 14:36	66501	SMAN_T2	2	2	0	0.55	0.9	0.35	0	0	0	0	0	0	0	0
3/20/2025 14:36	66502	SMAN_T2	7	17	10	0.31	0.36	0.05	0	0	0	0	0	0	0	0
3/20/2025 14:36	66503	SMAN_T2	2	2	0	0.55	0.9	0.35	0	0	0	0	0	0	0	0
3/20/2025 14:36	66505	SMAN_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/20/2025 14:37	66502	SMAN_T2	7	17	10	0.31	0.36	0.05	0	0	0	0	0	0	0	0
3/20/2025 14:37	66505	SMAN_T2	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/20/2025 14:37	52402	GRPA_T2	12	10	-2	0.55	0.67	0.12	0	0	0	0	0	0	0	0
3/20/2025 14:37	66501	SMAN_T2	2	2	0	0.55	0.9	0.35	0	0	0	0	0	0	0	0
3/20/2025 14:37	66504	SMAN_T2	2	8	6	1.25	0.53	-0.72	-0.43	-0.39	0	0	0	0	0	0
3/20/2025 14:37	66503	SMAN_T2	2	2	0	0.55	0.9	0.35	0	0	0	0	0	0	0	0
3/20/2025 14:37	52403	GRPA_T2	20	44	24	0.44	0.75	0.31	0	0	0	0	0	0	0	0
3/20/2025 14:37	52401	GRPA_T2	1	4	3	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/20/2025 14:43	52402	GRPA_T2	12	10	-2	0.55	0.67	0.12	0	0	0	0	0	0	0	0
3/20/2025 14:43	52403	GRPA_T2	20	44	24	0.44	0.75	0.31	0	0	0	0	0	0	0	0
3/20/2025 14:43	52401	GRPA_T2	1	4	3	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/20/2025 14:45	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 14:50	64704	LITI_T1	3	0	-3	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/20/2025 14:50	67203	TEHI_T1	0	0	0	0	0	0	1.51	1.43	4	4	0	3000	3000	0
3/20/2025 14:50	64701	LITI_T1	0	0	0	0	0	0	0.22	0.24	0	0	0	0	0	0
3/20/2025 14:51	55405	SHER_T1	31	32	1	0.56	0.59	0.03	0	0	0	0	0	0	0	0
3/20/2025 14:51	55401	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 14:52	60201	ATGL_T2	20	59	39	0.21	0.23	0.02	0.01	0.02	0	0	0	0	0	0
3/20/2025 14:52	67201	TEHI_T1	0	0	0	0	0	0	-0.86	-0.85	2	2	0	1500	1500	0
3/20/2025 14:54	67605	WARW_T1	178	107	-71	0.36	0.51	0.15	0	0	0	0	0	0	0	0
3/20/2025 14:54	67604	WARW_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/20/2025 14:54	67603	WARW_T1	4	3	-1	0.55	0.87	0.32	0.05	0.03	0	0	0	0	0	0
3/20/2025 14:55	60801	BUCK_T1	2	3	1	0.15	0.47	0.32	0	0	0	0	0	0	0	0
3/20/2025 14:55	60803	BUCK_T1	10	22	12	0.14	0.19	0.05	-0.56	-0.55	1	1	0	600	600	0
3/20/2025 14:57	44301	BEAV_T2	0	0	0	0	0	0	-0.08	-0.1	1	1	0	600	600	0
3/20/2025 14:57	20602	GRWO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/20/2025 14:57	20601	GRWO_T2	6	0	-6	0.32	0	-0.32	0	0	0	0	0	0	0	0
3/20/2025 14:57	44302	BEAV_T2	1	1	0	0.4	0.1	-0.3	0	0	0	0	0	0	0	0
3/20/2025 14:57	20603	GRWO_T2	813	554	-259	0.54	0.35	-0.19	0.4	0.38	0	0	0	0	0	0
3/20/2025 14:58	40902	JESH_T1	2	6	4	0.15	0.17	0.02	0	0	0	0	0	0	0	0
3/20/2025 14:58	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 14:59	54502	ENOL_T2	1	2	1	1.2	0.8	-0.4	-2.11	-2.11	1	1	0	600	600	0
3/20/2025 14:59	54501	ENOL_T2	2	3	1	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/20/2025 14:59	54505	ENOL_T2	1	2	1	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
3/20/2025 14:59	54504	ENOL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/20/2025 14:59	40902	JESH_T1	2	6	4	0.15	0.17	0.02	-0.79	-0.82	0	0	0	0	0	0
3/20/2025 15:00	44302	BEAV_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 15:00	44301	BEAV_T2	0	0	0	0	0	0	-0.08	-0.1	1	1	0	600	600	0
3/20/2025 15:00	40902	JESH_T1	2	5	3	0.1	0.18	0.08	-0.79	-0.82	0	0	0	0	0	0
3/20/2025 15:00	20601	GRWO_T2	0	0	0	0	0	0	0.85	0.8	0	0	0	0	0	0
3/20/2025 15:00	20603	GRWO_T2	499	507	8	0.33	0.35	0.02	0	0	0	0	0	0	0	0
3/20/2025 15:02	20603	GRWO_T2	499	507	8	0.33	0.35	0.02	0	0	0	0	0	0	0	0
3/20/2025 15:02	20601	GRWO_T2	0	0	0	0	0	0	0.85	0.8	0	0	0	0	0	0
3/20/2025 15:02	65901	SAKR_T2	1	1	0	8.8	8.2	-0.6	-1.37	-1.31	1	1	0	900	900	0
3/20/2025 15:05	54202	PENN_T2	3	3	0	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
3/20/2025 15:05	54206	PENN_T2	5	0	-5	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/20/2025 15:05	44202	POIN_T2	0	0	0	0	0	0	-0.57	-0.56	1	1	0	1200	1200	0
3/20/2025 15:06	44203	POIN_T2	0	0	0	0	0	0	-0.78	-1.03	2	2	0	2100	2100	0
3/20/2025 15:07	65901	SAKR_T2	1	1	0	8.8	8.2	-0.6	-1.31	-1.16	1	1	0	900	900	0
3/20/2025 15:07	22602	KIMB_T1	1	3	2	0.2	0.2	0	0	0	0	0	0	0	0	0
3/20/2025 15:07	22601	KIMB_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/20/2025 15:07	44202	POIN_T2	0	0	0	0	0	0	-0.56	-0.66	1	1	0	1200	1200	0
3/20/2025 15:09	52401	GRPA_T2	4	3	-1	0.4	0.37	-0.03	0	0	0	0	0	0	0	0
3/20/2025 15:09	52402	GRPA_T2	7	13	6	0.93	0.77	-0.16	0	0	0	0	0	0	0	0
3/20/2025 15:09	52403	GRPA_T2	44	26	-18	0.75	0.62	-0.13	0	0	0	0	0	0	0	0
3/20/2025 15:10	45902	AUBU_T1	5	4	-1	0.42	0.4	-0.02	0	0	0	0	0	0	0	0
3/20/2025 15:10	41601	CLEV_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/20/2025 15:10	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 15:11	20402	ASHF_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/20/2025 15:11	20401	ASHF_T2	11	13	2	0.32	0.42	0.1	0	0	0	0	0	0	0	0
3/20/2025 15:11	20403	ASHF_T2	152	231	79	0.38	0.41	0.03	-0.09	-0.12	0	0	0	0	0	0
3/20/2025 15:13	44701	MUNC_T2	2	2	0	0.1	0.1	0	-1.25	-1.24	0	0	0	0	0	0
3/20/2025 15:13	41601	CLEV_T1	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/20/2025 15:14	23401	HONE_T2	1	1	0	0.3	0.4	0.1	-0.31	-0.25	0	0	0	0	0	0
3/20/2025 15:15	54504	ENOL_T2	0	0	0	0	0	0	-2.52	-2.52	2	2	0	1200	1200	0
3/20/2025 15:15	61002	DONV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 15:15	54501	ENOL_T2	1	3	2	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/20/2025 15:15	54505	ENOL_T2	2	1	-1	0.6	1	0.4	-1.43	-1.43	1	1	0	600	600	0
3/20/2025 15:15	54502	ENOL_T2	2	1	-1	0.7	1.4	0.7	0	0	0	0	0	0	0	0
3/20/2025 15:17	23401	HONE_T2	1	1	0	0.3	0.4	0.1	-0.31	-0.25	0	0	0	0	0	0
3/20/2025 15:20	67605	WARW_T1	74	39	-35	0.55	0.63	0.08	-1.13	-1.14	0	0	0	0	0	0
3/20/2025 15:20	67603	WARW_T1	3	1	-2	0.87	0.7	-0.17	0	0	0	0	0	0	0	0
3/20/2025 15:20	44203	POIN_T2	0	0	0	0	0	0	-1.56	-2.05	4	4	0	4200	4200	0
3/20/2025 15:21	44203	POIN_T2	0	0	0	0	0	0	-2.05	-1.69	4	4	0	4200	4200	0
3/20/2025 15:21	22904	HARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 15:21	54202	PENN_T2	3	2	-1	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
3/20/2025 15:21	54206	PENN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 15:22	42701	AUGU_T1	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/20/2025 15:25	52402	GRPA_T2	10	38	28	0.86	0.4	-0.46	0	0	0	0	0	0	0	0
3/20/2025 15:25	52403	GRPA_T2	23	25	2	0.56	0.62	0.06	0	0	0	0	0	0	0	0
3/20/2025 15:25	52401	GRPA_T2	3	3	0	0.37	0.13	-0.24	0	0	0	0	0	0	0	0
3/20/2025 15:26	18001	ZION_T1	2	3	1	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
3/20/2025 15:26	52401	GRPA_T2	3	3	0	0.37	0.13	-0.24	0	0	0	0	0	0	0	0
3/20/2025 15:26	52403	GRPA_T2	23	25	2	0.56	0.62	0.06	0	0	0	0	0	0	0	0
3/20/2025 15:26	52402	GRPA_T2	10	38	28	0.86	0.4	-0.46	0	0	0	0	0	0	0	0
3/20/2025 15:29	63501	HEID_TBK1-2	10	9	-1	0.58	0.56	-0.02	0	0.45	2	2	0	1800	1800	0
3/20/2025 15:31	63501	HEID_TBK1-2	9	12	3	0.56	0.29	-0.27	0	0.22	1	1	0	900	900	0
3/20/2025 15:32	63501	HEID_TBK1-2	9	12	3	0.56	0.29	-0.27	0	0.22	1	1	0	900	900	0
3/20/2025 15:32	46901	MNTG_T2	1	7	6	0.1	0.19	0.09	-0.69	-0.73	1	1	0	600	600	0
3/20/2025 15:33	65901	SAKR_T2	1	1	0	7.9	9.2	1.3	-1.16	-1.24	1	1	0	900	900	0
3/20/2025 15:34	46901	MNTG_T2	0	0	0	0	0	0	-0.09	-0.02	1	1	0	1200	1200	0
3/20/2025 15:34	46903	MNTG_T2	1	7	6	0.1	0.19	0.09	0	0	0	0	0	0	0	0
3/20/2025 15:35	44201	POIN_T1	0	0	0	0	0	0	-4.45	-4.65	2	2	0	2400	2400	0
3/20/2025 15:37	44201	POIN_T1	0	0	0	0	0	0	-4.65	-4.67	2	2	0	2400	2400	0
3/20/2025 15:37	67401	WAKE_T2	96	64	-32	0.29	0.25	-0.04	-1.16	-1.11	0	0	0	0	0	0
3/20/2025 15:37	67402	WAKE_T2	6	2	-4	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
3/20/2025 15:38	67402	WAKE_T2	6	2	-4	0.38	0.25	-0.13	0	0	0	0	0	0	0	0
3/20/2025 15:38	67401	WAKE_T2	96	64	-32	0.29	0.25	-0.04	-1.16	-1.11	0	0	0	0	0	0
3/20/2025 15:38	65901	SAKR_T2	1	1	0	7.9	9.2	1.3	-1.24	-1.2	1	1	0	900	900	0
3/20/2025 15:38	46001	BERW_T1	0	0	0	0	0	0	0.55	0.52	0	0	0	0	0	0
3/20/2025 15:39	67402	WAKE_T2	6	2	-4	0.38	0.25	-0.13	0.14	0.14	0	0	0	0	0	0
3/20/2025 15:39	67401	WAKE_T2	96	64	-32	0.29	0.25	-0.04	-2.32	-2.22	0	0	0	0	0	0
3/20/2025 15:42	43505	WWIL_T1	1	1	0	2.5	2.6	0.1	0	0	0	0	0	0	0	0
3/20/2025 15:42	43504	WWIL_T1	12	12	0	0.58	0.65	0.07	1.02	0.92	0	0	0	0	0	0
3/20/2025 15:42	43506	WWIL_T1	1	3	2	1.9	0.77	-1.13	0	0	0	0	0	0	0	0
3/20/2025 15:43	40505	CRES_T1	0	0	0	0	0	0	0.26	0.24	0	0	0	0	0	0
3/20/2025 15:43	40504	CRES_T1	2	6	4	0.25	0.12	-0.13	0	0	0	0	0	0	0	0
3/20/2025 15:45	46602	LACR_T1	1	0	-1	0.1	0	-0.1	-0.75	-0.71	0	0	0	0	0	0
3/20/2025 15:46	52402	GRPA_T2	38	11	-27	0.4	0.52	0.12	0	0	0	0	0	0	0	0
3/20/2025 15:46	52403	GRPA_T2	5	2	-3	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/20/2025 15:46	52401	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/20/2025 15:46	11801	FRAN_T2	0	0	0	0	0	0	0.12	0	0	0	0	0	0	0
3/20/2025 15:47	54501	ENOL_T2	3	2	-1	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/20/2025 15:47	54504	ENOL_T2	0	0	0	0	0	0	-1.27	-1.27	1	1	0	600	600	0
3/20/2025 15:47	64704	LITI_T1	0	0	0	0	0	0	0.32	0.18	1	1	0	600	600	0
3/20/2025 15:47	54502	ENOL_T2	1	2	1	1.4	0.75	-0.65	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/20/2025 15:47	54505	ENOL_T2	1	2	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
3/20/2025 15:48	52101	MEIS_T1	1	1	0	1.1	1.4	0.3	0	0	0	0	0	0	0	0
3/20/2025 15:48	64704	LITI_T1	0	0	0	0	0	0	0.32	0.18	1	1	0	600	600	0
3/20/2025 15:48	52102	MEIS_T1	2	2	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/20/2025 15:51	46002	BERW_T2	0	0	0	0	0	0	-1.16	-1.18	1	1	0	900	900	0
3/20/2025 15:52	46002	BERW_T2	0	0	0	0	0	0	-2.33	-2.35	2	2	0	1800	1800	0
3/20/2025 15:54	52403	GRPA_T2	5	2	-3	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/20/2025 15:54	46004	BERW_T2	0	0	0	0	0	0	-0.6	-0.58	0	0	0	0	0	0
3/20/2025 15:54	52402	GRPA_T2	38	11	-27	0.4	0.52	0.12	0	0	0	0	0	0	0	0
3/20/2025 15:54	52401	GRPA_T2	0	1	1	0	0.2	0.2	-1.13	-1.08	0	0	0	0	0	0
3/20/2025 16:02	16902	MECK_T1	39	32	-7	0.17	0.18	0.01	0	0	0	0	0	0	0	0
3/20/2025 16:02	16901	MECK_T1	15	23	8	0.27	0.2	-0.07	0	0	0	0	0	0	0	0
3/20/2025 16:04	46506	LOHA_T1	3	3	0	5.47	5.7	0.23	0	0	0	0	0	0	0	0
3/20/2025 16:07	57402	SPAN_T2	3	18	15	0.13	0.2	0.07	-0.59	-0.59	0	0	0	0	0	0
3/20/2025 16:07	57403	SPAN_T1	9	9	0	0.46	0.49	0.03	-0.08	-0.08	0	0	0	0	0	0
3/20/2025 16:07	57401	SPAN_T1	2	2	0	1.3	1.35	0.05	0	0	0	0	0	0	0	0
3/20/2025 16:07	44202	POIN_T2	0	0	0	0	0	0	-0.72	-0.57	1	1	0	1200	1200	0
3/20/2025 16:08	40302	TAMA_T3	41	42	1	0.6	0.64	0.04	0	0	0	0	0	0	0	0
3/20/2025 16:08	48303	ORWI_T2	2	32	30	0.2	0.11	-0.09	0	0	0	0	0	0	0	0
3/20/2025 16:08	40303	TAMA_T3	12	14	2	0.43	0.5	0.07	0	0	0	0	0	0	0	0
3/20/2025 16:08	40301	TAMA_T3	40	36	-4	0.33	0.26	-0.07	1.45	1.5	2	2	0	1800	1800	0
3/20/2025 16:08	48302	ORWI_T2	4	57	53	4.73	0.54	-4.19	-0.28	-0.28	0	0	0	0	0	0
3/20/2025 16:09	57402	SPAN_T2	3	18	15	0.13	0.2	0.07	0	0	0	0	0	0	0	0
3/20/2025 16:09	67903	WNHO_T1	0	0	0	0	0	0	1.11	1.19	1	1	0	1200	1200	0
3/20/2025 16:10	57403	SPAN_T1	9	9	0	0.46	0.49	0.03	-0.08	-0.08	0	0	0	0	0	0
3/20/2025 16:10	57401	SPAN_T1	2	2	0	1.3	1.35	0.05	0	0	0	0	0	0	0	0
3/20/2025 16:10	57402	SPAN_T2	3	18	15	0.13	0.2	0.07	-1.18	-1.18	0	0	0	0	0	0
3/20/2025 16:11	57404	SPAN_T2	0	0	0	0	0	0	0.06	0.1	1	1	0	1200	1200	0
3/20/2025 16:11	57403	SPAN_T1	9	9	0	0.46	0.49	0.03	-0.08	-0.08	0	0	0	0	0	0
3/20/2025 16:11	57401	SPAN_T1	2	2	0	1.3	1.35	0.05	0	0	0	0	0	0	0	0
3/20/2025 16:11	57402	SPAN_T2	3	18	15	0.13	0.2	0.07	-0.59	-0.59	0	0	0	0	0	0
3/20/2025 16:13	23203	HIRU_T2	291	362	71	0.33	0.32	-0.01	0.18	0.18	0	0	0	0	0	0
3/20/2025 16:13	23202	HIRU_T2	344	373	29	0.36	0.42	0.06	0	0	0	0	0	0	0	0
3/20/2025 16:13	23201	HIRU_T2	265	271	6	0.54	0.56	0.02	0	0	0	0	0	0	0	0
3/20/2025 16:14	57403	SPAN_T1	9	9	0	0.46	0.49	0.03	-0.08	-0.08	0	0	0	0	0	0
3/20/2025 16:14	41202	KENM_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
3/20/2025 16:14	41201	KENM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 16:14	57401	SPAN_T1	2	2	0	1.3	1.35	0.05	0	0	0	0	0	0	0	0
3/20/2025 16:15	23201	HIRU_T2	241	271	30	0.45	0.55	0.1	0	0	0	0	0	0	0	0
3/20/2025 16:15	23202	HIRU_T2	313	373	60	0.27	0.42	0.15	0	0	0	0	0	0	0	0
3/20/2025 16:15	23203	HIRU_T2	291	347	56	0.29	0.32	0.03	0	0	0	0	0	0	0	0
3/20/2025 16:16	23201	HIRU_T2	241	271	30	0.45	0.55	0.1	0	0	0	0	0	0	0	0
3/20/2025 16:16	23202	HIRU_T2	313	373	60	0.27	0.42	0.15	0	0	0	0	0	0	0	0
3/20/2025 16:16	23203	HIRU_T2	291	347	56	0.29	0.32	0.03	0.18	0.18	0	0	0	0	0	0
3/20/2025 16:17	23202	HIRU_T2	313	373	60	0.27	0.42	0.15	0	0	0	0	0	0	0	0
3/20/2025 16:17	23203	HIRU_T2	291	347	56	0.29	0.32	0.03	0.18	0.18	0	0	0	0	0	0
3/20/2025 16:17	23201	HIRU_T2	241	271	30	0.45	0.55	0.1	0	0	0	0	0	0	0	0
3/20/2025 16:18	23201	HIRU_T2	241	271	30	0.45	0.55	0.1	0	0	0	0	0	0	0	0
3/20/2025 16:18	23203	HIRU_T2	291	347	56	0.29	0.32	0.03	0	0	0	0	0	0	0	0
3/20/2025 16:18	23202	HIRU_T2	313	373	60	0.27	0.42	0.15	0.11	0.11	0	0	0	0	0	0
3/20/2025 16:22	24801	VALM_T1	0	0	0	0	0	0	-0.42	-0.37	0	0	0	0	0	0
3/20/2025 16:22	14801	TREI_T2	100	118	18	0.34	0.42	0.08	0	0	0	0	0	0	0	0
3/20/2025 16:22	14802	TREI_T2	26	41	15	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
3/20/2025 16:24	15001	BLMO_T1	4	5	1	0.63	0.7	0.07	0	0	0	0	0	0	0	0
3/20/2025 16:26	14801	TREI_T2	100	118	18	0.34	0.42	0.08	0.27	0.27	0	0	0	0	0	0
3/20/2025 16:26	61304	EARL_T1	0	0	0	0	0	0	-0.93	-1.01	1	1	0	600	600	0
3/20/2025 16:26	14802	TREI_T2	26	41	15	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
3/20/2025 16:26	10602	BLGL_T2	0	3	3	0	0.4	0.4	-0.06	-0.07	0	0	0	0	0	0
3/20/2025 16:27	61302	EARL_T1	0	0	0	0	0	0	0.1	0.03	2	2	0	1800	1800	0
3/20/2025 16:27	61304	EARL_T1	0	0	0	0	0	0	-2.8	-3.02	3	3	0	1800	1800	0
3/20/2025 16:28	15001	BLMO_T1	4	5	1	0.63	0.7	0.07	0	0	0	0	0	0	0	0
3/20/2025 16:54	28102	TWLA_T2	14	19	5	0.48	0.44	-0.04	0.16	0.16	0	0	0	0	0	0
3/20/2025 17:04	66502	SMAN_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
3/20/2025 17:05	66502	SMAN_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
3/20/2025 17:06	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 17:07	66502	SMAN_T2	0	0	0	0	0	0	-0.02	0.01	0	0	0	0	0	0
3/20/2025 17:09	66502	SMAN_T2	0	0	0	0	0	0	-0.04	0.02	0	0	0	0	0	0
3/20/2025 17:11	20403	ASHF_T2	21	25	4	0.22	0.28	0.06	-0.01	-0.01	0	0	0	0	0	0
3/20/2025 17:11	20402	ASHF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/20/2025 17:11	10105	ALLE_T3	4	0	-4	0.28	0	-0.28	0	0	0	0	0	0	0	0
3/20/2025 17:11	10101	ALLE_T3	1	1	0	5.6	5.5	-0.1	0	0	0	0	0	0	0	0
3/20/2025 17:11	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 17:11	20401	ASHF_T2	7	8	1	0.33	0.33	0	0	0	0	0	0	0	0	0
3/20/2025 17:15	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 17:15	10101	ALLE_T3	1	2	1	5.5	6.6	1.1	0	0	0	0	0	0	0	0
3/20/2025 17:20	43802	SWIL_T1	0	0	0	0	0	0	-0.3	-0.29	1	1	0	600	600	0
3/20/2025 17:20	43801	SWIL_T1	7	2	-5	1.04	3.25	2.21	0	0	0	0	0	0	0	0
3/20/2025 17:22	52101	MEIS_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
3/20/2025 17:22	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/20/2025 17:27	11201	ELHE_T2	0	0	0	0	0	0	-0.15	-0.41	2	2	0	2400	2400	0
3/20/2025 17:28	11201	ELHE_T2	0	0	0	0	0	0	-0.15	-0.41	2	2	0	2400	2400	0
3/20/2025 17:31	22701	MINO_T1	0	0	0	0	0	0	-0.51	-0.48	0	0	0	0	0	0
3/20/2025 17:33	63602	LETO_T1	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
3/20/2025 17:34	63602	LETO_T1	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
3/20/2025 17:38	40201	BEGA_T2	9	10	1	0.23	0.28	0.05	0	0	0	0	0	0	0	0
3/20/2025 17:39	63602	LETO_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
3/20/2025 17:44	54505	ENOL_T2	1	1	0	0.8	0.7	-0.1	0	0	0	0	0	0	0	0
3/20/2025 17:44	54502	ENOL_T2	1	1	0	0.6	1	0.4	0	0	0	0	0	0	0	0
3/20/2025 17:44	54501	ENOL_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/20/2025 17:48	54505	ENOL_T2	1	1	0	0.6	0.7	0.1	0	0	0	0	0	0	0	0
3/20/2025 17:48	54502	ENOL_T2	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/20/2025 17:48	54501	ENOL_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/20/2025 18:09	60301	TWVA_T2	0	0	0	0	0	0	-1.87	-1.88	2	2	0	1800	1800	0
3/20/2025 18:12	60201	ATGL_T2	12	0	-12	0.15	0	-0.15	-0.05	-0.01	0	0	0	0	0	0
3/20/2025 18:12	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/20/2025 19:21	65702	WVIL_T2	0	0	0	0	0	0	-0.98	-1.02	0	0	0	0	0	0
3/20/2025 19:53	57401	SPAN_T1	2	3	1	0.9	1.15	0.25	0.22	0.26	0	0	0	0	0	0
3/20/2025 20:00	10105	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:05	60803	BUCK_T1	0	52	52	0	0.47	0.47	-0.58	-1.04	1	1	0	600	600	0
3/20/2025 20:05	64802	MONE_T2	120	36	-84	0.28	0.22	-0.06	0	0	0	0	0	0	0	0
3/20/2025 20:05	60801	BUCK_T1	25	741	716	0.15	0.26	0.11	0	0	0	0	0	0	0	0
3/20/2025 20:05	64801	MONE_T2	152	92	-60	0.43	0.25	-0.18	-0.06	-0.07	0	0	0	0	0	0
3/20/2025 20:06	60801	BUCK_T1	25	741	716	0.15	0.26	0.11	0	0	0	0	0	0	0	0
3/20/2025 20:06	60803	BUCK_T1	0	52	52	0	0.47	0.47	-3.13	-3.15	3	3	0	1800	1800	0
3/20/2025 20:07	57401	SPAN_T1	2	3	1	1.05	1.15	0.1	0.26	0.28	0	0	0	0	0	0
3/20/2025 20:08	67002	STHI_T2	18	54	36	0.12	0.14	0.02	0.52	0.53	0	0	0	0	0	0
3/20/2025 20:08	67001	STHI_T2	194	322	128	0.13	0.19	0.06	0	0	0	0	0	0	0	0
3/20/2025 20:09	60801	BUCK_T1	25	741	716	0.15	0.26	0.11	0	0	0	0	0	0	0	0
3/20/2025 20:09	60803	BUCK_T1	0	52	52	0	0.47	0.47	-1.04	-1.05	1	1	0	600	600	0
3/20/2025 20:11	60801	BUCK_T1	25	741	716	0.15	0.26	0.11	0	0	0	0	0	0	0	0
3/20/2025 20:11	60803	BUCK_T1	0	52	52	0	0.47	0.47	0	0	0	0	0	0	0	0
3/20/2025 20:12	67002	STHI_T2	18	54	36	0.12	0.14	0.02	0	0	0	0	0	0	0	0
3/20/2025 20:12	67001	STHI_T2	194	322	128	0.13	0.19	0.06	0	0	0	0	0	0	0	0
3/20/2025 20:14	61002	DONV_T2	0	0	0	0	0	0	-1.47	-1.41	2	2	0	1200	1200	0
3/20/2025 20:16	60801	BUCK_T1	723	41	-682	2.48	0.33	-2.15	0	0	0	0	0	0	0	0
3/20/2025 20:16	60803	BUCK_T1	46	13	-33	0.5	0.26	-0.24	0	0	0	0	0	0	0	0
3/20/2025 20:17	60803	BUCK_T1	46	13	-33	0.5	0.26	-0.24	0	0	0	0	0	0	0	0
3/20/2025 20:17	60801	BUCK_T1	723	41	-682	2.48	0.33	-2.15	0	0	0	0	0	0	0	0
3/20/2025 20:21	63602	LETO_T1	0	0	0	0	0	0	-0.66	-0.71	0	0	0	0	0	0
3/20/2025 20:22	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:23	66505	SMAN_T2	3	3	0	1.03	1.1	0.07	0	0	0	0	0	0	0	0
3/20/2025 20:23	66502	SMAN_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
3/20/2025 20:25	46203	DANV_T2	43	86	43	0.18	0.28	0.1	0.12	0.11	0	0	0	0	0	0
3/20/2025 20:26	44702	MUNC_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:26	44701	MUNC_T2	1	56	55	0.1	0.16	0.06	-1.48	-1.48	0	0	0	0	0	0
3/20/2025 20:26	64704	LITI_T1	0	0	0	0	0	0	-0.05	0.05	1	1	0	600	600	0
3/20/2025 20:26	40201	BEGA_T2	10	14	4	0.5	0.46	-0.04	0	0	0	0	0	0	0	0
3/20/2025 20:27	44802	EDAN_T2	0	0	0	0	0	0	-0.96	-0.96	0	0	0	0	0	0
3/20/2025 20:27	15703	TANN_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
3/20/2025 20:27	46205	DANV_T2	0	0	0	0	0	0	0.37	0.38	0	0	0	0	0	0
3/20/2025 20:27	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.48	-0.5	0	0	0	0	0	0
3/20/2025 20:27	46203	DANV_T2	43	86	43	0.18	0.28	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:28	41801	GOCI_T2	68	50	-18	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
3/20/2025 20:28	15702	TANN_T2	0	1	1	0	0.1	0.1	-0.48	-0.5	0	0	0	0	0	0
3/20/2025 20:28	41802	GOCI_T2	16	13	-3	0.14	0.15	0.01	0	0	0	0	0	0	0	0
3/20/2025 20:28	15703	TANN_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
3/20/2025 20:29	66502	SMAN_T2	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
3/20/2025 20:29	41801	GOCI_T2	68	50	-18	0.17	0.15	-0.02	0	0	0	0	0	0	0	0
3/20/2025 20:29	41802	GOCI_T2	16	13	-3	0.14	0.15	0.01	0	0	0	0	0	0	0	0
3/20/2025 20:29	66505	SMAN_T2	3	3	0	1.03	1.1	0.07	0	0	0	0	0	0	0	0
3/20/2025 20:30	67603	WARW_T1	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
3/20/2025 20:30	63501	HEID_TBK1-2	19	26	7	0.2	0.2	0	0.23	0.29	0	0	0	0	0	0
3/20/2025 20:30	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:30	44802	EDAN_T2	0	0	0	0	0	0	-0.96	-0.96	0	0	0	0	0	0
3/20/2025 20:30	67605	WARW_T1	16	18	2	0.44	0.53	0.09	0	0	0	0	0	0	0	0
3/20/2025 20:31	67605	WARW_T1	16	18	2	0.44	0.53	0.09	0	0	0	0	0	0	0	0
3/20/2025 20:31	24202	PROV_T4	0	14	14	0	0.14	0.14	-0.79	-0.85	1	1	0	1200	1200	0
3/20/2025 20:31	67603	WARW_T1	0	0	0	0	0	0	-0.12	-0.14	0	0	0	0	0	0
3/20/2025 20:32	41802	GOCI_T2	12	9	-3	0.14	0.14	0	0	0	0	0	0	0	0	0
3/20/2025 20:32	63501	HEID_TBK1-2	19	26	7	0.2	0.2	0	0.23	0.29	0	0	0	0	0	0
3/20/2025 20:32	15702	TANN_T2	0	36	36	0	0.13	0.13	-0.48	-0.5	0	0	0	0	0	0
3/20/2025 20:32	15703	TANN_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
3/20/2025 20:32	54601	SUMM_T2	10	12	2	0.6	0.7	0.1	-1.95	-1.95	2	2	0	2100	2100	0
3/20/2025 20:32	64702	LITI_T2	0	0	0	0	0	0	-0.7	-0.57	0	0	0	0	0	0
3/20/2025 20:32	41801	GOCI_T2	45	62	17	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
3/20/2025 20:33	41801	GOCI_T2	45	62	17	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
3/20/2025 20:33	67401	WAKE_T2	1	14	13	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/20/2025 20:33	41802	GOCI_T2	12	9	-3	0.14	0.14	0	0	0	0	0	0	0	0	0
3/20/2025 20:33	57203	ROSS_T1	596	848	252	0.17	0.33	0.16	0.26	0.27	0	0	0	0	0	0
3/20/2025 20:33	44802	EDAN_T2	0	0	0	0	0	0	-0.96	-0.96	0	0	0	0	0	0
3/20/2025 20:33	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:33	57201	ROSS_T1	257	383	126	0.41	0.45	0.04	0	0	0	0	0	0	0	0
3/20/2025 20:33	57205	ROSS_T1	22	117	95	0.12	0.15	0.03	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/20/2025 20:34	15702	TANN_T2	0	36	36	0	0.13	0.13	-0.48	-0.5	0	0	0	0	0	0
3/20/2025 20:34	67503	WEWI_T2	13	0	-13	0.14	0	-0.14	0	0	0	0	0	0	0	0
3/20/2025 20:34	15703	TANN_T2	1	1	0	4.8	4.8	0	0	0	0	0	0	0	0	0
3/20/2025 20:34	50506	MECH_T1	0	145	145	0	0.13	0.13	0	0	0	0	0	0	0	0
3/20/2025 20:34	50502	MECH_T1	5	5	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
3/20/2025 20:34	50505	MECH_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
3/20/2025 20:34	50504	MECH_T1	26	143	117	0.11	0.16	0.05	0	0	0	0	0	0	0	0
3/20/2025 20:34	67502	WEWI_T2	453	268	-185	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
3/20/2025 20:34	50501	MECH_T1	50	220	170	0.16	0.19	0.03	-0.58	-0.57	0	0	0	0	0	0
3/20/2025 20:34	67605	WARW_T1	16	18	2	0.44	0.53	0.09	-0.95	-0.91	0	0	0	0	0	0
3/20/2025 20:34	50503	MECH_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:35	57201	ROSS_T1	257	383	126	0.41	0.45	0.04	0	0	0	0	0	0	0	0
3/20/2025 20:35	64202	KINZ_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
3/20/2025 20:35	57205	ROSS_T1	22	117	95	0.12	0.15	0.03	0.03	0.03	0	0	0	0	0	0
3/20/2025 20:35	64204	KINZ_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
3/20/2025 20:35	41802	GOCI_T2	12	9	-3	0.14	0.14	0	0	0	0	0	0	0	0	0
3/20/2025 20:35	21403	EXET_T2	0	0	0	0	0	0	-1.4	-1.39	0	0	0	0	0	0
3/20/2025 20:35	63501	HEID_TBK1-2	19	26	7	0.2	0.2	0	0.46	0.59	0	0	0	0	0	0
3/20/2025 20:35	64203	KINZ_T1	0	0	0	0	0	0	0.19	0.05	0	0	0	0	0	0
3/20/2025 20:35	41801	GOCI_T2	45	62	17	0.15	0.14	-0.01	0	0	0	0	0	0	0	0
3/20/2025 20:35	57203	ROSS_T1	596	848	252	0.17	0.33	0.16	0.52	0.54	0	0	0	0	0	0
3/20/2025 20:35	67605	WARW_T1	16	18	2	0.44	0.53	0.09	-0.95	-0.91	0	0	0	0	0	0
3/20/2025 20:35	64201	KINZ_T1	1	4	3	0.7	0.33	-0.37	0	0	0	0	0	0	0	0
3/20/2025 20:36	57401	SPAN_T1	2	2	0	0.8	1.25	0.45	0.28	0.23	0	0	0	0	0	0
3/20/2025 20:36	57201	ROSS_T1	257	383	126	0.41	0.45	0.04	0	0	0	0	0	0	0	0
3/20/2025 20:36	55002	NEWP_T1	7	7	0	1.26	1.23	-0.03	-0.32	-0.3	0	0	0	0	0	0
3/20/2025 20:36	67401	WAKE_T2	1	14	13	0.1	0.16	0.06	-1.3	-1.3	0	0	0	0	0	0
3/20/2025 20:36	44802	EDAN_T2	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
3/20/2025 20:36	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:36	57205	ROSS_T1	22	117	95	0.12	0.15	0.03	0.03	0.03	0	0	0	0	0	0
3/20/2025 20:36	57203	ROSS_T1	596	848	252	0.17	0.33	0.16	0	0	0	0	0	0	0	0
3/20/2025 20:36	55001	NEWP_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/20/2025 20:37	55002	NEWP_T1	7	7	0	1.26	1.23	-0.03	-0.3	-0.32	0	0	0	0	0	0
3/20/2025 20:37	21705	SUBU_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
3/20/2025 20:37	21206	ECAR_T2	1	1	0	8.3	8.4	0.1	-0.15	-0.13	0	0	0	0	0	0
3/20/2025 20:37	67605	WARW_T1	16	18	2	0.44	0.53	0.09	-0.91	-0.93	0	0	0	0	0	0
3/20/2025 20:37	63804	HEMP_T1	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
3/20/2025 20:37	44802	EDAN_T2	0	0	0	0	0	0	-0.96	-0.98	0	0	0	0	0	0
3/20/2025 20:37	55001	NEWP_T1	1	1	0	0.3	0.5	0.2	-0.32	-0.33	0	0	0	0	0	0
3/20/2025 20:37	64702	LITI_T2	0	0	0	0	0	0	-0.57	-0.63	0	0	0	0	0	0
3/20/2025 20:37	21701	SUBU_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
3/20/2025 20:37	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:37	63802	HEMP_T1	0	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0
3/20/2025 20:37	67401	WAKE_T2	1	14	13	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/20/2025 20:37	67402	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:37	21704	SUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:37	57205	ROSS_T1	22	117	95	0.12	0.15	0.03	0	0	0	0	0	0	0	0
3/20/2025 20:37	21702	SUBU_T1	0	1	1	0	2.5	2.5	0	0	0	0	0	0	0	0
3/20/2025 20:37	57203	ROSS_T1	596	848	252	0.17	0.33	0.16	0.27	0.27	0	0	0	0	0	0
3/20/2025 20:37	57201	ROSS_T1	257	383	126	0.41	0.45	0.04	0	0	0	0	0	0	0	0
3/20/2025 20:38	54601	SUMM_T2	10	12	2	0.6	0.7	0.1	-1.95	-1.94	2	2	0	2100	2100	0
3/20/2025 20:38	21703	SUBU_T1	0	0	0	0	0	0	0.31	0.3	0	0	0	0	0	0
3/20/2025 20:38	21701	SUBU_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
3/20/2025 20:38	57403	SPAN_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
3/20/2025 20:38	57203	ROSS_T1	596	848	252	0.17	0.33	0.16	0	0	0	0	0	0	0	0
3/20/2025 20:38	63501	HEID_TBK1-2	19	26	7	0.2	0.2	0	0.29	0.29	0	0	0	0	0	0
3/20/2025 20:38	21705	SUBU_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
3/20/2025 20:38	54602	SUMM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:38	55001	NEWP_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/20/2025 20:38	67401	WAKE_T2	1	14	13	0.1	0.16	0.06	-2.6	-2.6	0	0	0	0	0	0
3/20/2025 20:38	21702	SUBU_T1	0	1	1	0	2.5	2.5	0	0	0	0	0	0	0	0
3/20/2025 20:38	57201	ROSS_T1	257	383	126	0.41	0.45	0.04	-2.7	-2.8	0	0	0	0	0	0
3/20/2025 20:38	57401	SPAN_T1	2	2	0	0.8	1.25	0.45	0.23	0.25	0	0	0	0	0	0
3/20/2025 20:38	55002	NEWP_T1	7	7	0	1.26	1.23	-0.03	-0.6	-0.64	0	0	0	0	0	0
3/20/2025 20:38	57205	ROSS_T1	22	117	95	0.12	0.15	0.03	0.03	0.03	0	0	0	0	0	0
3/20/2025 20:38	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:39	55001	NEWP_T1	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/20/2025 20:39	63501	HEID_TBK1-2	19	26	7	0.2	0.2	0	0.29	0.29	0	0	0	0	0	0
3/20/2025 20:39	40505	CRES_T1	43	62	19	0.17	0.2	0.03	0.18	0.15	0	0	0	0	0	0
3/20/2025 20:39	40802	EXCH_T2	0	0	0	0	0	0	-0.67	-0.62	0	0	0	0	0	0
3/20/2025 20:39	40504	CRES_T1	150	195	45	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
3/20/2025 20:39	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:39	40503	CRES_T1	9	11	2	0.13	0.16	0.03	0	0	0	0	0	0	0	0
3/20/2025 20:39	57402	SPAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:39	67503	WEWI_T2	13	0	-13	0.14	0	-0.14	0	0	0	0	0	0	0	0
3/20/2025 20:39	55002	NEWP_T1	7	7	0	1.26	1.23	-0.03	-0.3	-0.32	0	0	0	0	0	0
3/20/2025 20:39	66505	SMAN_T2	3	3	0	0.97	1.5	0.53	0	0	0	0	0	0	0	0
3/20/2025 20:39	67502	WEWI_T2	453	268	-185	0.35	0.31	-0.04	0	0	0	0	0	0	0	0
3/20/2025 20:39	61304	EARL_T1	0	0	0	0	0	0	-1.14	-1.15	1	1	0	600	600	0
3/20/2025 20:39	54601	SUMM_T2	10	12	2	0.6	0.7	0.1	-1.95	-1.94	2	2	0	2100	2100	0
3/20/2025 20:39	57404	SPAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:39	66504	SMAN_T2	0	0	0	0	0	0	-0.75	-0.75	0	0	0	0	0	0
3/20/2025 20:40	54501	ENOL_T2	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
3/20/2025 20:40	21702	SUBU_T1	0	1	1	0	2.5	2.5	0	0	0	0	0	0	0	0
3/20/2025 20:40	55002	NEWP_T1	7	7	0	1.26	1.23	-0.03	0	0	0	0	0	0	0	0
3/20/2025 20:40	21701	SUBU_T1	1	1	0	6.1	6	-0.1	0	0	0	0	0	0	0	0
3/20/2025 20:40	66502	SMAN_T2	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
3/20/2025 20:40	57404	SPAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:40	40503	CRES_T1	9	11	2	0.13	0.16	0.03	0	0	0	0	0	0	0	0
3/20/2025 20:40	64201	KINZ_T1	1	4	3	0.7	0.33	-0.37	0.58	0.58	0	0	0	0	0	0
3/20/2025 20:40	21704	SUBU_T1	0	0	0	0	0	0	-1.39	-1.44	1	1	0	1200	1200	0
3/20/2025 20:40	40504	CRES_T1	150	195	45	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
3/20/2025 20:40	64202	KINZ_T1	0	3	3	0	0.33	0.33	0	0	0	0	0	0	0	0
3/20/2025 20:40	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:40	57401	SPAN_T1	2	2	0	0.8	1.25	0.45	0.23	0.25	0	0	0	0	0	0
3/20/2025 20:40	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/20/2025 20:40	64204	KINZ_T1	1	1	0	1.3	1.6	0.3	0	0	0	0	0	0	0	0
3/20/2025 20:40	55001	NEWP_T1	1	1	0	0.3	0.5	0.2	-0.32	-0.33	0	0	0	0	0	0
3/20/2025 20:40	54504	ENOL_T2	0	0	0	0	0	0	-1.23	-1.23	1	1	0	600	600	0
3/20/2025 20:40	40505	CRES_T1	43	62	19	0.17	0.2	0.03	0.18	0.15	0	0	0	0	0	0
3/20/2025 20:40	57402	SPAN_T2	0	0	0	0	0	0	-0.62	-0.62	0	0	0	0	0	0
3/20/2025 20:40	21705	SUBU_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
3/20/2025 20:40	44301	BEAV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:40	54502	ENOL_T2	1	26	25	0.8	0.15	-0.65	0	0	0	0	0	0	0	0
3/20/2025 20:40	66505	SMAN_T2	3	3	0	0.97	1.5	0.53	0	0	0	0	0	0	0	0
3/20/2025 20:41	44801	EDAN_T2	0	0	0	0	0	0	-1.05	-1.04	0	0	0	0	0	0
3/20/2025 20:41	66902	SHIL_T2	0	0	0	0	0	0	-2.08	-2.08	0	0	0	0	0	0
3/20/2025 20:41	40502	CRES_T2	16	11	-5	0.39	0.3	-0.09	0	0	0	0	0	0	0	0
3/20/2025 20:41	52401	GRPA_T2	1	40	39	0.4	0.16	-0.24	0	0	0	0	0	0	0	0
3/20/2025 20:41	52404	GRPA_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/20/2025 20:41	44301	BEAV_T2	0	0	0	0	0	0	-0.02	-0.08	1	1	0	600	600	0
3/20/2025 20:41	40503	CRES_T1	9	11	2	0.13	0.16	0.03	0	0	0	0	0	0	0	0
3/20/2025 20:41	40504	CRES_T1	150	195	45	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
3/20/2025 20:41	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	-1.43	-1.44	1	1	0	600	600	0
3/20/2025 20:41	20401	ASHF_T2	6	12	6	0.47	0.38	-0.09	0	0	0	0	0	0	0	0
3/20/2025 20:41	20403	ASHF_T2	1	7	6	0.1	0.16	0.06	0.12	0.1	0	0	0	0	0	0
3/20/2025 20:41	52402	GRPA_T2	6	6	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
3/20/2025 20:41	40505	CRES_T1	43	62	19	0.17	0.2	0.03	0.18	0.15	0	0	0	0	0	0
3/20/2025 20:41	52403	GRPA_T2	0	11	11	0	0.48	0.48	0	0	0	0	0	0	0	0
3/20/2025 20:41	61001	DONV_T1	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
3/20/2025 20:41	54501	ENOL_T2	0	5	5	0	0.16	0.16	0.06	0.05	0	0	0	0	0	0
3/20/2025 20:41	57404	SPAN_T2	0	1	1	0	0.1	0.1	1.07	1.16	0	0	0	0	0	0
3/20/2025 20:41	66901	SHIL_T2	0	0	0	0	0	0	-0.58	-0.65	0	0	0	0	0	0
3/20/2025 20:41	54502	ENOL_T2	1	26	25	0.8	0.15	-0.65	-2.03	-2.1	1	1	0	600	600	0
3/20/2025 20:41	40501	CRES_T2	11	10	-1	0.27	0.17	-0.1	0	0	0	0	0	0	0	0
3/20/2025 20:42	40505	CRES_T1	43	62	19	0.17	0.2	0.03	0.35	0.3	0	0	0	0	0	0
3/20/2025 20:42	50506	MECH_T1	0	145	145	0	0.13	0.13	-0.14	-0.4	0	0	0	0	0	0
3/20/2025 20:42	67605	WARW_T1	16	18	2	0.44	0.53	0.09	-0.91	-0.93	0	0	0	0	0	0
3/20/2025 20:42	54502	ENOL_T2	1	26	25	0.8	0.15	-0.65	0	0	0	0	0	0	0	0
3/20/2025 20:42	54505	ENOL_T2	1	1	0	0.9	1.1	0.2	-1.43	-1.44	1	1	0	600	600	0
3/20/2025 20:42	50504	MECH_T1	26	143	117	0.11	0.16	0.05	0	0	0	0	0	0	0	0
3/20/2025 20:42	54202	PENN_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:42	54204	PENN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:42	40504	CRES_T1	150	195	45	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
3/20/2025 20:42	50502	MECH_T1	5	5	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
3/20/2025 20:42	46903	MINI_T2	0	22	22	0	0.11	0.11	-0.86	-0.89	1	1	0	600	600	0
3/20/2025 20:42	40503	CRES_T1	9	11	2	0.13	0.16	0.03	0	0	0	0	0	0	0	0
3/20/2025 20:42	57201	ROSS_T1	257	383	126	0.41	0.45	0.04	-1.35	-1.4	0	0	0	0	0	0
3/20/2025 20:42	57205	ROSS_T1	22	117	95	0.12	0.15	0.03	0	0	0	0	0	0	0	0
3/20/2025 20:42	63501	HEID_TBK1-2	19	26	7	0.2	0.2	0	0.29	0.29	0	0	0	0	0	0
3/20/2025 20:42	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:42	50501	MECH_T1	50	220	170	0.16	0.19	0.03	0	0	0	0	0	0	0	0
3/20/2025 20:42	54206	PENN_T2	0	41	41	0	0.11	0.11	-0.16	-0.12	0	0	0	0	0	0
3/20/2025 20:42	57203	ROSS_T1	596	848	252	0.17	0.33	0.16	0	0	0	0	0	0	0	0
3/20/2025 20:42	50503	MECH_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:42	50505	MECH_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
3/20/2025 20:42	54501	ENOL_T2	0	5	5	0	0.16	0.16	0	0	0	0	0	0	0	0
3/20/2025 20:43	55101	WERT_T1	0	0	0	0	0	0	-1.03	-1.05	1	1	0	900	900	0
3/20/2025 20:43	54202	PENN_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:43	66902	SHIL_T2	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
3/20/2025 20:43	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:43	57404	SPAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:43	63602	LETO_T1	0	0	0	0	0	0	-0.71	-0.67	0	0	0	0	0	0
3/20/2025 20:43	57201	ROSS_T1	257	383	126	0.41	0.45	0.04	-1.35	-1.4	0	0	0	0	0	0
3/20/2025 20:43	67401	WAKE_T2	1	14	13	0.1	0.16	0.06	-1.3	-1.3	0	0	0	0	0	0
3/20/2025 20:43	54206	PENN_T2	0	41	41	0	0.11	0.11	-0.16	-0.12	0	0	0	0	0	0
3/20/2025 20:43	54204	PENN_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:43	57205	ROSS_T1	22	117	95	0.12	0.15	0.03	0	0	0	0	0	0	0	0
3/20/2025 20:43	67402	WAKE_T2	0	0	0	0	0	0	0.12	0.13	0	0	0	0	0	0
3/20/2025 20:43	57203	ROSS_T1	596	848	252	0.17	0.33	0.16	0	0	0	0	0	0	0	0
3/20/2025 20:43	57402	SPAN_T2	0	0	0	0	0	0	-1.86	-1.86	0	0	0	0	0	0
3/20/2025 20:44	21206	ECAR_T2	1	1	0	8.3	8.4	0.1	-0.15	-0.13	0	0	0	0	0	0
3/20/2025 20:44	67401	WAKE_T2	1	14	13	0.1	0.16	0.06	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/20/2025 20:44	50506	MECH_T1	0	145	145	0	0.13	0.13	-0.14	-0.4	0	0	0	0	0	0
3/20/2025 20:44	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:44	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:44	41202	KENM_T2	1	1	0	0.9	0.9	0	0	0	0	0	0	0	0	0
3/20/2025 20:44	40505	CRES_T1	43	62	19	0.17	0.2	0.03	0.18	0.15	0	0	0	0	0	0
3/20/2025 20:44	67402	WAKE_T2	0	0	0	0	0	0	0.36	0.4	0	0	0	0	0	0
3/20/2025 20:44	50504	MECH_T1	26	143	117	0.11	0.16	0.05	0	0	0	0	0	0	0	0
3/20/2025 20:44	41205	KENM_T2	0	0	0	0	0	0	-0.12	-0.11	0	0	0	0	0	0
3/20/2025 20:44	54601	SUMM_T2	10	12	2	0.6	0.7	0.1	-3.9	-3.88	4	4	0	4200	4200	0
3/20/2025 20:44	50503	MECH_T1	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:44	50502	MECH_T1	5	5	0	0.8	1.1	0.3	0	0	0	0	0	0	0	0
3/20/2025 20:44	50501	MECH_T1	50	220	170	0.16	0.19	0.03	0	0	0	0	0	0	0	0
3/20/2025 20:44	40503	CRES_T1	9	11	2	0.13	0.16	0.03	0	0	0	0	0	0	0	0
3/20/2025 20:44	50505	MECH_T1	0	8	8	0	0.11	0.11	0	0	0	0	0	0	0	0
3/20/2025 20:44	40504	CRES_T1	150	195	45	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
3/20/2025 20:44	55105	WERT_T1	0	0	0	0	0	0	-0.81	-0.85	1	1	0	900	900	0
3/20/2025 20:44	61302	EARL_T1	0	0	0	0	0	0	0.09	0.03	1	0	-1	1200	0	-1200
3/20/2025 20:44	41201	KENM_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:44	46203	DANV_T2	76	88	12	0.28	0.29	0.01	0.11	0.11	0	0	0	0	0	0
3/20/2025 20:45	48303	ORWI_T2	155	190	35	0.24	0.25	0.01	0.49	0.48	0	0	0	0	0	0
3/20/2025 20:45	40503	CRES_T1	10	17	7	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/20/2025 20:45	60201	ATGL_T2	44	168	124	0.2	0.31	0.11	-0.47	-0.66	0	0	0	0	0	0
3/20/2025 20:45	48302	ORWI_T2	129	167	38	0.35	0.36	0.01	-0.18	-0.2	0	0	0	0	0	0
3/20/2025 20:45	53903	HALI_T2	2	2	0	0.4	1.35	0.95	0	0	0	0	0	0	0	0
3/20/2025 20:45	40501	CRES_T2	10	11	1	0.17	0.36	0.19	0	0	0	0	0	0	0	0
3/20/2025 20:45	40504	CRES_T1	153	295	142	0.27	0.29	0.02	0	0	0	0	0	0	0	0
3/20/2025 20:45	53902	HALI_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
3/20/2025 20:45	53901	HALI_T2	1	1	0	0.2	0.3	0.1	0.05	0.05	0	0	0	0	0	0
3/20/2025 20:45	46001	BERW_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
3/20/2025 20:45	40502	CRES_T2	11	42	31	0.3	0.25	-0.05	0.12	0.06	0	0	0	0	0	0
3/20/2025 20:45	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/20/2025 20:45	40505	CRES_T1	55	79	24	0.21	0.31	0.1	0.18	0.15	0	0	0	0	0	0
3/20/2025 20:45	54601	SUMM_T2	12	12	0	0.46	0.73	0.27	0	0	0	0	0	0	0	0
3/20/2025 20:45	57401	SPAN_T1	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
3/20/2025 20:45	57403	SPAN_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
3/20/2025 20:45	46002	BERW_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
3/20/2025 20:46	40503	CRES_T1	10	17	7	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/20/2025 20:46	20401	ASHF_T2	7	13	6	0.43	0.41	-0.02	0.24	0.22	0	0	0	0	0	0
3/20/2025 20:46	63602	LETO_T1	0	0	0	0	0	0	-0.71	-0.67	0	0	0	0	0	0
3/20/2025 20:46	60301	TWVA_T2	0	2	2	0	0.1	0.1	-1.98	-1.98	2	2	0	1800	1800	0
3/20/2025 20:46	57401	SPAN_T1	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
3/20/2025 20:46	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/20/2025 20:46	43302	WATS_T2	4	4	0	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/20/2025 20:46	43301	WATS_T2	0	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
3/20/2025 20:46	54502	ENOL_T2	2	26	24	0.6	0.15	-0.45	0	-0.2	0	0	0	0	0	0
3/20/2025 20:46	57403	SPAN_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
3/20/2025 20:46	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/20/2025 20:46	54504	ENOL_T2	0	0	0	0	0	0	-1.23	-1.23	1	1	0	600	600	0
3/20/2025 20:46	58402	MORO_T1	0	0	0	0	0	0	-0.24	0.19	2	1	-1	1500	900	-600
3/20/2025 20:46	40504	CRES_T1	153	295	142	0.27	0.29	0.02	0	0	0	0	0	0	0	0
3/20/2025 20:46	46002	BERW_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
3/20/2025 20:46	40502	CRES_T2	11	42	31	0.3	0.25	-0.05	0	0	0	0	0	0	0	0
3/20/2025 20:46	40505	CRES_T1	55	79	24	0.21	0.31	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:46	52402	GRPA_T2	6	6	0	1.47	1.48	0.01	0	0	0	0	0	0	0	0
3/20/2025 20:46	57201	ROSS_T1	318	415	97	0.43	0.5	0.07	0	0	0	0	0	0	0	0
3/20/2025 20:46	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:46	43402	BENT_T1	6	33	27	0.23	0.18	-0.05	-1.03	-1.04	1	1	0	900	900	0
3/20/2025 20:46	40801	EXCH_T2	0	0	0	0	0	0	0.75	0.73	0	0	0	0	0	0
3/20/2025 20:46	57205	ROSS_T1	60	314	254	0.14	0.17	0.03	0	0	0	0	0	0	0	0
3/20/2025 20:46	57203	ROSS_T1	758	874	116	0.24	0.37	0.13	0.27	0.27	0	0	0	0	0	0
3/20/2025 20:46	52404	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/20/2025 20:46	54501	ENOL_T2	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
3/20/2025 20:46	52101	MEIS_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:46	60201	ATGL_T2	44	168	124	0.2	0.31	0.11	-0.24	-0.33	0	0	0	0	0	0
3/20/2025 20:46	40501	CRES_T2	10	11	1	0.17	0.36	0.19	0	0	0	0	0	0	0	0
3/20/2025 20:46	52001	LING_T1	0	0	0	0	0	0	0.05	0.09	0	0	0	0	0	0
3/20/2025 20:46	54505	ENOL_T2	1	1	0	1	1.1	0.1	-1.43	-1.44	1	1	0	600	600	0
3/20/2025 20:46	52403	GRPA_T2	1	13	12	0.6	0.75	0.15	0	0	0	0	0	0	0	0
3/20/2025 20:46	52401	GRPA_T2	2	65	63	0.45	0.19	-0.26	-1.4	-1.44	0	0	0	0	0	0
3/20/2025 20:46	20403	ASHF_T2	1	13	12	0.2	0.22	0.02	0	0	0	0	0	0	0	0
3/20/2025 20:46	60305	TWVA_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/20/2025 20:47	45902	AUBU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
3/20/2025 20:47	67903	WNHO_T1	0	0	0	0	0	0	1.17	1.21	1	1	0	1200	1200	0
3/20/2025 20:47	57403	SPAN_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
3/20/2025 20:47	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:47	52006	LING_T2	2	2	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:47	40505	CRES_T1	55	79	24	0.21	0.31	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:47	52002	LING_T2	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:47	67203	TEHI_T1	0	0	0	0	0	0	2.5	2.51	2	2	0	1500	1500	0
3/20/2025 20:47	40503	CRES_T1	10	17	7	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/20/2025 20:47	48302	ORWI_T2	129	167	38	0.35	0.36	0.01	-0.18	-0.2	0	0	0	0	0	0
3/20/2025 20:47	48303	ORWI_T2	155	190	35	0.24	0.25	0.01	0	0	0	0	0	0	0	0
3/20/2025 20:47	40504	CRES_T1	153	295	142	0.27	0.29	0.02	-1.14	-1.14	0	0	0	0	0	0
3/20/2025 20:47	52004	LING_T2	3	3	0	4.63	4.87	0.24	0.04	0.08	0	0	0	0	0	0
3/20/2025 20:47	47101	MARL_T1	0	0	0	0	0	0	-1.36	-1.34	0	0	0	0	0	0
3/20/2025 20:47	67901	WNHO_T2	0	0	0	0	0	0	-0.58	-0.61	1	1	0	900	900	0
3/20/2025 20:47	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:47	57401	SPAN_T1	2	2	0	1.05	1.3	0.25	0.23	0.25	0	0	0	0	0	0
3/20/2025 20:47	63501	HEID_TBK1-2	2	39	37	0.85	0.39	-0.46	0.29	0.29	0	0	0	0	0	0
3/20/2025 20:48	54501	ENOL_T2	0	5	5	0	0.18	0.18	0.06	0.05	0	0	0	0	0	0
3/20/2025 20:48	64204	KINZ_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
3/20/2025 20:48	64201	KINZ_T1	1	5	4	0.9	0.32	-0.58	0	0	0	0	0	0	0	0
3/20/2025 20:48	64202	KINZ_T1	3	3	0	0.2	0.7	0.5	0.51	0.5	0	0	0	0	0	0
3/20/2025 20:48	61304	EARL_T1	0	0	0	0	0	0	-1.14	-1.15	1	1	0	600	600	0
3/20/2025 20:48	40505	CRES_T1	55	79	24	0.21	0.31	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:48	54601	SUMM_T2	12	12	0	0.46	0.73	0.27	-1.95	-1.94	2	2	0	2100	2100	0
3/20/2025 20:48	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:48	40504	CRES_T1	153	295	142	0.27	0.29	0.02	-0.57	-0.57	0	0	0	0	0	0
3/20/2025 20:48	41002	LAUR_T2	13	51	38	0.37	0.42	0.05	-1	-1	0	0	0	0	0	0
3/20/2025 20:48	57401	SPAN_T1	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
3/20/2025 20:48	41001	LAUR_T2	17	76	59	0.1	0.36	0.26	0	0	0	0	0	0	0	0
3/20/2025 20:48	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:48	40503	CRES_T1	10	17	7	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/20/2025 20:48	54502	ENOL_T2	2	26	24	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
3/20/2025 20:48	64902	MILL_T2	0	0	0	0	0	0	-0.58	-0.49	0	0	0	0	0	0
3/20/2025 20:48	46001	BERW_T1	0	0	0	0	0	0	0.93	0.97	0	0	0	0	0	0
3/20/2025 20:48	46004	BERW_T2	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
3/20/2025 20:48	46002	BERW_T2	0	0	0	0	0	0	-0.27	-0.25	0	0	0	0	0	0
3/20/2025 20:49	50506	MECH_T1	0	368	368	0	0.19	0.19	0	0	0	0	0	0	0	0
3/20/2025 20:49	50505	MECH_T1	0	85	85	0	0.12	0.12	0	0	0	0	0	0	0	0
3/20/2025 20:49	50503	MECH_T1	0	88	88	0	0.15	0.15	0	0	0	0	0	0	0	0
3/20/2025 20:49	41801	GOCI_T2	18	122	104	0.13	0.26	0.13	0	0	0	0	0	0	0	0
3/20/2025 20:49	50504	MECH_T1	0	339	339	0	0.22	0.22	0	0	0	0	0	0	0	0
3/20/2025 20:49	50501	MECH_T1	41	435	394	0.14	0.27	0.13	0	0	0	0	0	0	0	0
3/20/2025 20:49	64202	KINZ_T1	3	3	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/20/2025 20:49	61304	EARL_T1	0	0	0	0	0	0	-1.14	-1.15	1	1	0	600	600	0
3/20/2025 20:49	20403	ASHF_T2	1	13	12	0.2	0.22	0.02	0	0	0	0	0	0	0	0
3/20/2025 20:49	64204	KINZ_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
3/20/2025 20:49	67106	SPRI_T2	0	0	0	0	0	0	-1.35	-1.34	1	1	0	900	900	0
3/20/2025 20:49	41802	GOCI_T2	8	11	3	0.15	0.15	0	0	0	0	0	0	0	0	0
3/20/2025 20:49	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/20/2025 20:49	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:49	66903	SHIL_T2	0	0	0	0	0	0	-1.29	-1.28	0	0	0	0	0	0
3/20/2025 20:49	50502	MECH_T1	5	5	0	0.8	1.52	0.72	0	0	0	0	0	0	0	0
3/20/2025 20:49	64201	KINZ_T1	1	5	4	0.9	0.32	-0.58	0	0	0	0	0	0	0	0
3/20/2025 20:49	20401	ASHF_T2	7	13	6	0.43	0.41	-0.02	0.24	0.22	0	0	0	0	0	0
3/20/2025 20:50	60201	ATGL_T2	44	168	124	0.2	0.31	0.11	-0.24	-0.33	0	0	0	0	0	0
3/20/2025 20:50	66502	SMAN_T2	0	0	0	0	0	0	-0.11	-0.08	0	0	0	0	0	0
3/20/2025 20:50	57401	SPAN_T1	2	2	0	1.05	1.3	0.25	0	0	0	0	0	0	0	0
3/20/2025 20:50	23202	HIRU_T2	278	337	59	0.26	0.33	0.07	0.13	0.12	0	0	0	0	0	0
3/20/2025 20:50	21203	ECAR_T1	0	0	0	0	0	0	-0.51	-0.51	0	0	0	0	0	0
3/20/2025 20:50	66505	SMAN_T2	3	3	0	1.1	1.77	0.67	0	0	0	0	0	0	0	0
3/20/2025 20:50	41902	REED_T1	0	0	0	0	0	0	0.99	1.05	0	0	0	0	0	0
3/20/2025 20:50	64204	KINZ_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
3/20/2025 20:50	23201	HIRU_T2	214	238	24	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/20/2025 20:50	53902	HALI_T2	1	1	0	0.2	0.3	0.1	0.05	0.05	0	0	0	0	0	0
3/20/2025 20:50	61001	DONV_T1	0	0	0	0	0	0	-0.1	-0.06	0	0	0	0	0	0
3/20/2025 20:50	61803	EELI_T2	0	0	0	0	0	0	0.81	0.76	0	0	0	0	0	0
3/20/2025 20:50	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:50	53903	HALI_T2	2	2	0	0.4	1.35	0.95	0	0	0	0	0	0	0	0
3/20/2025 20:50	53902	HALI_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
3/20/2025 20:50	66903	SHIL_T2	0	0	0	0	0	0	-2.58	-2.56	0	0	0	0	0	0
3/20/2025 20:50	64202	KINZ_T1	3	3	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/20/2025 20:50	23203	HIRU_T2	229	347	118	0.34	0.35	0.01	0	0	0	0	0	0	0	0
3/20/2025 20:50	57403	SPAN_T1	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
3/20/2025 20:50	46001	BERW_T1	0	0	0	0	0	0	0.47	0.48	0	0	0	0	0	0
3/20/2025 20:50	64201	KINZ_T1	1	5	4	0.9	0.32	-0.58	0.58	0.58	0	0	0	0	0	0
3/20/2025 20:50	67106	SPRI_T2	0	0	0	0	0	0	-2.7	-2.68	2	2	0	1800	1800	0
3/20/2025 20:51	48302	ORWI_T2	129	167	38	0.35	0.36	0.01	-0.18	-0.2	0	0	0	0	0	0
3/20/2025 20:51	64204	KINZ_T1	1	1	0	1.6	1.4	-0.2	0	0	0	0	0	0	0	0
3/20/2025 20:51	60201	ATGL_T2	44	168	124	0.2	0.31	0.11	0	0	0	0	0	0	0	0
3/20/2025 20:51	53903	HALI_T2	2	2	0	0.4	1.35	0.95	-0.19	-0.19	0	0	0	0	0	0
3/20/2025 20:51	52006	LING_T2	2	2	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:51	52002	LING_T2	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:51	40301	TAMA_T3	17	9	-8	0.22	0.28	0.06	0	0	0	0	0	0	0	0
3/20/2025 20:51	24801	VALM_T1	0	0	0	0	0	0	-0.38	-0.38	0	0	0	0	0	0
3/20/2025 20:51	41001	LAUR_T2	17	76	59	0.1	0.36	0.26	0	0	0	0	0	0	0	0
3/20/2025 20:51	55405	SHER_T1	31	31	0	0.73	0.56	-0.17	0	0	0	0	0	0	0	0
3/20/2025 20:51	41002	LAUR_T2	13	51	38	0.37	0.42	0.05	0	0	0	0	0	0	0	0
3/20/2025 20:51	48303	ORWI_T2	155	190	35	0.24	0.25	0.01	0.49	0.48	0	0	0	0	0	0
3/20/2025 20:51	53901	HALI_T2	1	1	0	0.2	0.3	0.1	0.05	0.05	0	0	0	0	0	0
3/20/2025 20:51	57205	ROSS_T1	60	314	254	0.14	0.17	0.03	0	0	0	0	0	0	0	0
3/20/2025 20:51	40302	TAMA_T3	51	52	1	0.55	0.47	-0.08	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/20/2025 20:51	58402	MORO_T1	0	0	0	0	0	0	-0.24	0.19	2	1	-1	1500	900	-600
3/20/2025 20:51	53902	HALI_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
3/20/2025 20:51	58102	NEKI_T1	1	1	0	1.5	1.6	0.1	0.09	0	0	0	0	0	0	0
3/20/2025 20:51	46001	BERW_T1	0	0	0	0	0	0	0.48	0.46	0	0	0	0	0	0
3/20/2025 20:51	66903	SHIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:51	20602	GRWO_T2	35	37	2	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/20/2025 20:51	64202	KINZ_T1	3	3	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/20/2025 20:51	52004	LING_T2	3	3	0	4.63	4.87	0.24	0.04	0.08	0	0	0	0	0	0
3/20/2025 20:51	55401	SHER_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:51	57203	ROSS_T1	758	874	116	0.24	0.37	0.13	0.27	0.27	0	0	0	0	0	0
3/20/2025 20:51	57201	ROSS_T1	318	415	97	0.43	0.5	0.07	0	0	0	0	0	0	0	0
3/20/2025 20:51	64201	KINZ_T1	1	5	4	0.9	0.32	-0.58	0	0	0	0	0	0	0	0
3/20/2025 20:51	20603	GRWO_T2	174	176	2	0.45	0.46	0.01	0.3	0.3	0	0	0	0	0	0
3/20/2025 20:51	61002	DONV_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:51	58101	NEKI_T1	0	19	19	0	0.11	0.11	0	0	0	0	0	0	0	0
3/20/2025 20:51	64203	KINZ_T1	0	0	0	0	0	0	0.05	0.11	0	0	0	0	0	0
3/20/2025 20:51	40303	TAMA_T3	12	10	-2	0.37	0.37	0	2.22	2.18	0	0	0	0	0	0
3/20/2025 20:52	53903	HALI_T2	2	2	0	0.4	1.35	0.95	0	0	0	0	0	0	0	0
3/20/2025 20:52	14404	SSLA_T1	109	178	69	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/20/2025 20:52	14403	SSLA_T1	12	15	3	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/20/2025 20:52	40302	TAMA_T3	51	52	1	0.55	0.47	-0.08	0	0	0	0	0	0	0	0
3/20/2025 20:52	57205	ROSS_T1	60	314	254	0.14	0.17	0.03	0	0	0	0	0	0	0	0
3/20/2025 20:52	52002	LING_T2	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:52	57203	ROSS_T1	758	874	116	0.24	0.37	0.13	0	0	0	0	0	0	0	0
3/20/2025 20:52	53902	HALI_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
3/20/2025 20:52	53501	EVIL_T2	2	2	0	0.75	0.55	-0.2	0	0	0	0	0	0	0	0
3/20/2025 20:52	20401	ASHF_T2	7	13	6	0.43	0.41	-0.02	0	0	0	0	0	0	0	0
3/20/2025 20:52	23203	HIRU_T2	229	347	118	0.34	0.35	0.01	0.18	0.18	0	0	0	0	0	0
3/20/2025 20:52	57201	ROSS_T1	318	415	97	0.43	0.5	0.07	0	0	0	0	0	0	0	0
3/20/2025 20:52	14401	SSLA_T1	81	126	45	0.18	0.2	0.02	-0.65	-0.67	0	0	0	0	0	0
3/20/2025 20:52	64704	LITI_T1	0	0	0	0	0	0	0.08	0.15	1	1	0	600	600	0
3/20/2025 20:52	66505	SMAN_T2	3	3	0	1.1	1.77	0.67	0	0	0	0	0	0	0	0
3/20/2025 20:52	65701	RVIL_T1	0	0	0	0	0	0	-0.37	-0.38	0	0	0	0	0	0
3/20/2025 20:52	66502	SMAN_T2	0	0	0	0	0	0	-0.16	-0.18	0	0	0	0	0	0
3/20/2025 20:52	20403	ASHF_T2	1	13	12	0.2	0.22	0.02	0.1	0.05	0	0	0	0	0	0
3/20/2025 20:52	52004	LING_T2	3	3	0	4.63	4.87	0.24	0.08	0.04	0	0	0	0	0	0
3/20/2025 20:52	23202	HIRU_T2	278	337	59	0.26	0.33	0.07	0	0	0	0	0	0	0	0
3/20/2025 20:52	53901	HALI_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:52	42501	ALTA_T2	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
3/20/2025 20:52	46004	BERW_T2	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
3/20/2025 20:52	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:52	52006	LING_T2	2	2	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:52	23201	HIRU_T2	214	238	24	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/20/2025 20:52	14402	SSLA_T1	318	370	52	0.28	0.34	0.06	0	0	0	0	0	0	0	0
3/20/2025 20:52	40301	TAMA_T3	17	9	-8	0.22	0.28	0.06	1.77	1.97	1	1	0	1200	1200	0
3/20/2025 20:52	45902	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:52	40303	TAMA_T3	12	10	-2	0.37	0.37	0	0	0	0	0	0	0	0	0
3/20/2025 20:52	65702	RVIL_T2	0	0	0	0	0	0	-2.16	-2.2	0	0	0	0	0	0
3/20/2025 20:53	52002	LING_T2	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:53	57201	ROSS_T1	318	415	97	0.43	0.5	0.07	0	0	0	0	0	0	0	0
3/20/2025 20:53	20602	GRWO_T2	35	37	2	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/20/2025 20:53	24102	EHAZ_T1	4	8	4	0.48	0	-0.48	0	0	0	0	0	0	0	0
3/20/2025 20:53	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:53	44301	BEAV_T2	0	0	0	0	0	0	-0.08	-0.11	1	1	0	600	600	0
3/20/2025 20:53	57401	SPAN_T1	2	2	0	1.05	1.3	0.25	0.25	0.25	0	0	0	0	0	0
3/20/2025 20:53	20601	GRWO_T2	0	0	0	0	0	0	0.72	0.7	0	0	0	0	0	0
3/20/2025 20:53	27503	WEIS_T2	186	60	-126	0.38	0.15	-0.23	0	0	0	0	0	0	0	0
3/20/2025 20:53	21901	HUMB_T1	0	0	0	0	0	0	-0.89	-0.87	0	0	0	0	0	0
3/20/2025 20:53	50504	MECH_T1	0	339	339	0	0.22	0.22	0	0	0	0	0	0	0	0
3/20/2025 20:53	57203	ROSS_T1	758	874	116	0.24	0.37	0.13	0	0	0	0	0	0	0	0
3/20/2025 20:53	50502	MECH_T1	5	5	0	0.8	1.52	0.72	0	0	0	0	0	0	0	0
3/20/2025 20:53	27502	WEIS_T2	7	4	-3	0.41	0.4	-0.01	-0.3	-0.34	0	0	0	0	0	0
3/20/2025 20:53	50501	MECH_T1	41	435	394	0.14	0.27	0.13	0	0	0	0	0	0	0	0
3/20/2025 20:53	45501	DERR_T2	0	0	0	0	0	0	0.12	0.02	2	2	0	1800	1800	0
3/20/2025 20:53	52004	LING_T2	3	3	0	4.63	4.87	0.24	0	0	0	0	0	0	0	0
3/20/2025 20:53	50505	MECH_T1	0	85	85	0	0.12	0.12	0	0	0	0	0	0	0	0
3/20/2025 20:53	14801	TREI_T2	81	100	19	0.27	0.32	0.05	0.3	0.31	0	0	0	0	0	0
3/20/2025 20:53	61801	EELI_T2	0	0	0	0	0	0	-0.54	-0.55	0	0	0	0	0	0
3/20/2025 20:53	24105	EHAZ_T1	4	4	0	6	5.75	-0.25	-2.28	-2.29	1	1	0	1200	1200	0
3/20/2025 20:53	66903	SHIL_T2	0	0	0	0	0	0	-1.28	-1.3	0	0	0	0	0	0
3/20/2025 20:53	50506	MECH_T1	0	368	368	0	0.19	0.19	-0.4	-0.38	0	0	0	0	0	0
3/20/2025 20:53	24101	EHAZ_T1	5	3	-2	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/20/2025 20:53	20603	GRWO_T2	174	176	2	0.45	0.46	0.01	0	0	0	0	0	0	0	0
3/20/2025 20:53	52006	LING_T2	2	2	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:53	14802	TREI_T2	21	29	8	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/20/2025 20:53	57205	ROSS_T1	60	314	254	0.14	0.17	0.03	0.03	0.01	0	0	0	0	0	0
3/20/2025 20:53	50503	MECH_T1	0	88	88	0	0.15	0.15	0	0	0	0	0	0	0	0
3/20/2025 20:54	14402	SSLA_T1	318	370	52	0.28	0.34	0.06	0	0	0	0	0	0	0	0
3/20/2025 20:54	66505	SMAN_T2	3	3	0	1.1	1.77	0.67	0	0	0	0	0	0	0	0
3/20/2025 20:54	14401	SSLA_T1	81	126	45	0.18	0.2	0.02	0	0	0	0	0	0	0	0
3/20/2025 20:54	45501	DERR_T2	0	0	0	0	0	0	0.12	0.02	2	2	0	1800	1800	0
3/20/2025 20:54	61304	EARL_T1	0	0	0	0	0	0	-1.15	-0.41	1	0	-1	600	0	-600
3/20/2025 20:54	14403	SSLA_T1	12	15	3	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/20/2025 20:54	66504	SMAN_T2	0	0	0	0	0	0	-1.5	-1.32	0	0	0	0	0	0
3/20/2025 20:54	23201	HIRU_T2	214	238	24	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/20/2025 20:54	14404	SSLA_T1	109	178	69	0.17	0.2	0.03	-0.12	-0.17	0	0	0	0	0	0
3/20/2025 20:54	57205	ROSS_T1	60	314	254	0.14	0.17	0.03	0	0	0	0	0	0	0	0
3/20/2025 20:54	23203	HIRU_T2	229	347	118	0.34	0.35	0.01	0.37	0.37	0	0	0	0	0	0
3/20/2025 20:54	57203	ROSS_T1	758	874	116	0.24	0.37	0.13	0	0	0	0	0	0	0	0
3/20/2025 20:54	65702	RVIL_T2	0	0	0	0	0	0	-1.08	-1.1	0	0	0	0	0	0
3/20/2025 20:54	47101	MARL_T1	0	0	0	0	0	0	-1.34	-1.35	0	0	0	0	0	0
3/20/2025 20:54	57201	ROSS_T1	318	415	97	0.43	0.5	0.07	0	0	0	0	0	0	0	0
3/20/2025 20:54	23202	HIRU_T2	278	337	59	0.26	0.33	0.07	0	0	0	0	0	0	0	0
3/20/2025 20:55	14402	SSLA_T1	318	370	52	0.28	0.34	0.06	0	0	0	0	0	0	0	0
3/20/2025 20:55	64704	LITI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:55	14801	TREI_T2	81	100	19	0.27	0.32	0.05	0	0	0	0	0	0	0	0
3/20/2025 20:55	14802	TREI_T2	21	29	8	0.27	0.28	0.01	0.31	0.29	0	0	0	0	0	0
3/20/2025 20:55	14403	SSLA_T1	12	15	3	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/20/2025 20:55	44201	POIN_T1	44	68	24	0.15	0.18	0.03	-2.37	-2.42	1	1	0	1200	1200	0
3/20/2025 20:55	66504	SMAN_T2	0	0	0	0	0	0	-0.75	-0.66	0	0	0	0	0	0
3/20/2025 20:55	42501	ALTA_T2	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
3/20/2025 20:55	16902	MECK_T1	11	20	9	0.11	0.16	0.05	0	0	0	0	0	0	0	0
3/20/2025 20:55	66502	SMAN_T2	0	0	0	0	0	0	-0.08	-0.09	0	0	0	0	0	0
3/20/2025 20:55	14401	SSLA_T1	81	126	45	0.18	0.2	0.02	-0.65	-0.67	0	0	0	0	0	0
3/20/2025 20:55	14404	SSLA_T1	109	178	69	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/20/2025 20:55	45501	DERR_T2	0	0	0	0	0	0	0.12	0.02	2	2	0	1800	1800	0
3/20/2025 20:55	65702	RVIL_T2	0	0	0	0	0	0	-2.16	-2.2	0	0	0	0	0	0
3/20/2025 20:55	17802	GILB_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
3/20/2025 20:55	66505	SMAN_T2	3	3	0	1.1	1.77	0.67	0	0	0	0	0	0	0	0
3/20/2025 20:55	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:55	16901	MECK_T1	4	5	1	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
3/20/2025 20:55	46004	BERW_T2	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
3/20/2025 20:56	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:56	54501	ENOL_T2	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
3/20/2025 20:56	42701	AUGU_T1	1	1	0	0.8	0.9	0.1	0	0	2	2	0	1800	1800	0
3/20/2025 20:56	44201	POIN_T1	44	68	24	0.15	0.18	0.03	-2.37	-2.42	1	1	0	1200	1200	0
3/20/2025 20:56	65702	RVIL_T2	0	0	0	0	0	0	-1.08	-1.1	0	0	0	0	0	0
3/20/2025 20:56	54504	ENOL_T2	0	0	0	0	0	0	-1.23	-1.23	1	1	0	600	600	0
3/20/2025 20:56	67605	WARW_T1	15	22	7	0.41	0.58	0.17	0	0	0	0	0	0	0	0
3/20/2025 20:56	54502	ENOL_T2	2	26	24	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
3/20/2025 20:56	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:56	47401	PENS_T1	0	0	0	0	0	0	0.62	0.65	0	0	0	0	0	0
3/20/2025 20:56	42401	GIMA_T1	75	71	-4	0.25	0.25	0	0	0	0	0	0	0	0	0
3/20/2025 20:56	44203	POIN_T2	0	0	0	0	0	0	2.23	2.21	4	4	0	4200	4200	0
3/20/2025 20:56	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:56	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:56	44202	POIN_T2	0	0	0	0	0	0	-0.67	-0.65	1	1	0	1200	1200	0
3/20/2025 20:56	67803	WLAN_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:56	66505	SMAN_T2	3	3	0	1.1	1.77	0.67	0	0	0	0	0	0	0	0
3/20/2025 20:56	67805	WLAN_T1	84	266	182	0.14	0.23	0.09	-1.64	-1.64	0	0	0	0	0	0
3/20/2025 20:56	58401	MORO_T1	0	0	0	0	0	0	-1.37	-1.35	1	1	0	600	600	0
3/20/2025 20:56	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:57	54501	ENOL_T2	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
3/20/2025 20:57	41801	GOCI_T2	18	122	104	0.13	0.26	0.13	0	0	0	0	0	0	0	0
3/20/2025 20:57	64904	MILL_T1	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
3/20/2025 20:57	17804	GILB_T2	24	26	2	0.18	0.19	0.01	0	0	0	0	0	0	0	0
3/20/2025 20:57	66505	SMAN_T2	3	3	0	1.1	1.77	0.67	0	0	0	0	0	0	0	0
3/20/2025 20:57	65702	RVIL_T2	0	0	0	0	0	0	-2.16	-2.2	0	0	0	0	0	0
3/20/2025 20:57	22903	HARW_T1	0	6	6	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:57	14401	SSLA_T1	81	126	45	0.18	0.2	0.02	-1.3	-1.34	0	0	0	0	0	0
3/20/2025 20:57	54502	ENOL_T2	2	26	24	0.6	0.15	-0.45	0	0	0	0	0	0	0	0
3/20/2025 20:57	14402	SSLA_T1	318	370	52	0.28	0.34	0.06	0	0	0	0	0	0	0	0
3/20/2025 20:57	22905	HARW_T1	1	3	2	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/20/2025 20:57	27502	WEIS_T2	7	4	-3	0.41	0.4	-0.01	0	0	0	0	0	0	0	0
3/20/2025 20:57	14404	SSLA_T1	109	178	69	0.17	0.2	0.03	-0.12	-0.17	0	0	0	0	0	0
3/20/2025 20:57	20602	GRWO_T2	35	37	2	0.17	0.19	0.02	0	0	0	0	0	0	0	0
3/20/2025 20:57	52002	LING_T2	1	1	0	1.4	1.5	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:57	17805	GILB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:57	57201	ROSS_T1	318	415	97	0.43	0.5	0.07	0	0	0	0	0	0	0	0
3/20/2025 20:57	44201	POIN_T1	44	68	24	0.15	0.18	0.03	-2.37	-2.42	1	1	0	1200	1200	0
3/20/2025 20:57	40101	HUNT_T2	0	0	0	0	0	0	-3.6	-3.6	0	0	0	0	0	0
3/20/2025 20:57	41802	GOCI_T2	8	11	3	0.15	0.15	0	0	0	0	0	0	0	0	0
3/20/2025 20:57	22904	HARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:57	54504	ENOL_T2	0	0	0	0	0	0	-1.23	-1.23	1	1	0	600	600	0
3/20/2025 20:57	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:57	53903	HALI_T2	2	2	0	0.4	1.35	0.95	0	0	0	0	0	0	0	0
3/20/2025 20:57	20603	GRWO_T2	174	176	2	0.45	0.46	0.01	0.3	0.32	0	0	0	0	0	0
3/20/2025 20:57	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:57	53902	HALI_T2	1	1	0	5.4	5.6	0.2	0	0	0	0	0	0	0	0
3/20/2025 20:57	58401	MORO_T1	0	0	0	0	0	0	-1.37	-1.35	1	1	0	600	600	0
3/20/2025 20:57	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:57	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:57	14403	SSLA_T1	12	15	3	0.27	0.28	0.01	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/20/2025 20:57	47403	PENS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:57	65703	RVIL_T1	0	0	0	0	0	0	-0.33	-0.4	0	0	0	0	0	0
3/20/2025 20:57	52004	LING_T2	3	3	0	4.63	4.87	0.24	0.15	0.09	0	0	0	0	0	0
3/20/2025 20:57	52006	LING_T2	2	2	0	1.5	1.6	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:57	57205	ROSS_T1	60	314	254	0.14	0.17	0.03	0	0	0	0	0	0	0	0
3/20/2025 20:57	53901	HALI_T2	1	1	0	0.2	0.3	0.1	0.1	0.08	0	0	0	0	0	0
3/20/2025 20:57	16301	ALPA_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
3/20/2025 20:57	47401	PENS_T1	0	0	0	0	0	0	0.62	0.65	0	0	0	0	0	0
3/20/2025 20:57	27503	WEIS_T2	186	60	-126	0.38	0.15	-0.23	0	0	0	0	0	0	0	0
3/20/2025 20:57	18001	ZION_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:57	44203	POIN_T2	0	0	0	0	0	0	-1.11	-1.1	2	2	0	2100	2100	0
3/20/2025 20:57	17803	GILB_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:57	57203	ROSS_T1	758	874	116	0.24	0.37	0.13	0	0	0	0	0	0	0	0
3/20/2025 20:57	52101	MEIS_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:58	54501	ENOL_T2	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
3/20/2025 20:58	52401	GRPA_T2	2	65	63	0.45	0.19	-0.26	0	0	0	0	0	0	0	0
3/20/2025 20:58	50504	MECH_T1	0	339	339	0	0.22	0.22	0	0	0	0	0	0	0	0
3/20/2025 20:58	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:58	16902	MECK_T1	11	20	9	0.11	0.16	0.05	0.06	0.06	0	0	0	0	0	0
3/20/2025 20:58	50505	MECH_T1	0	85	85	0	0.12	0.12	0	0	0	0	0	0	0	0
3/20/2025 20:58	16301	ALPA_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
3/20/2025 20:58	52402	GRPA_T2	6	6	0	1.47	1.48	0.01	0	0	0	0	0	0	0	0
3/20/2025 20:58	47401	PENS_T1	0	0	0	0	0	0	1.86	1.95	0	0	0	0	0	0
3/20/2025 20:58	50501	MECH_T1	41	435	394	0.14	0.27	0.13	0	0	0	0	0	0	0	0
3/20/2025 20:58	54502	ENOL_T2	2	26	24	0.6	0.15	-0.45	-2.1	-1.41	1	0	-1	600	0	-600
3/20/2025 20:58	44502	HAMI_T2	1	1	0	3.1	3.3	0.2	0	0	0	0	0	0	0	0
3/20/2025 20:58	50502	MECH_T1	5	5	0	0.8	1.52	0.72	0	0	0	0	0	0	0	0
3/20/2025 20:58	52404	GRPA_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/20/2025 20:58	50506	MECH_T1	0	368	368	0	0.19	0.19	-0.4	-0.38	0	0	0	0	0	0
3/20/2025 20:58	50503	MECH_T1	0	88	88	0	0.15	0.15	0	0	0	0	0	0	0	0
3/20/2025 20:58	23401	HONE_T2	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
3/20/2025 20:58	10602	BLGL_T2	0	0	0	0	0	0	0	-0.03	0	0	0	0	0	0
3/20/2025 20:58	17802	GILB_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
3/20/2025 20:58	42701	AUGU_T1	1	1	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:58	16901	MECK_T1	4	5	1	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
3/20/2025 20:58	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:58	52403	GRPA_T2	1	13	12	0.6	0.75	0.15	0	0	0	0	0	0	0	0
3/20/2025 20:58	58401	MORO_T1	0	0	0	0	0	0	-1.37	-1.35	1	1	0	600	600	0
3/20/2025 20:58	67605	WARW_T1	15	22	7	0.41	0.58	0.17	0	0	0	0	0	0	0	0
3/20/2025 20:59	44202	POIN_T2	0	0	0	0	0	0	-0.67	-0.65	1	1	0	1200	1200	0
3/20/2025 20:59	64904	MILL_T1	0	0	0	0	0	0	0.38	0.36	0	0	0	0	0	0
3/20/2025 20:59	44301	BEAV_T2	0	0	0	0	0	0	-0.08	-0.11	1	1	0	600	600	0
3/20/2025 20:59	54502	ENOL_T2	2	26	24	0.6	0.15	-0.45	-2.1	-1.41	1	0	-1	600	0	-600
3/20/2025 20:59	55101	WERT_T1	0	0	0	0	0	0	-1.05	-1.05	1	1	0	900	900	0
3/20/2025 20:59	42701	AUGU_T1	1	1	0	0.8	0.9	0.1	0	0	2	2	0	1800	1800	0
3/20/2025 20:59	44502	HAMI_T2	1	1	0	3.1	3.3	0.2	0	0	0	0	0	0	0	0
3/20/2025 20:59	14404	SSLA_T1	109	178	69	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/20/2025 20:59	66505	SMAN_T2	3	3	0	1.1	1.77	0.67	0	0	0	0	0	0	0	0
3/20/2025 20:59	23202	HIRU_T2	278	337	59	0.26	0.33	0.07	0	0	0	0	0	0	0	0
3/20/2025 20:59	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:59	43801	SWIL_T1	4	9	5	1.68	0.98	-0.7	0	0	0	0	0	0	0	0
3/20/2025 20:59	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:59	47401	PENS_T1	0	0	0	0	0	0	0.62	0.65	0	0	0	0	0	0
3/20/2025 20:59	17401	FOHI_T1	0	0	0	0	0	0	-1.07	-1.05	0	0	0	0	0	0
3/20/2025 20:59	58401	MORO_T1	0	0	0	0	0	0	-1.37	-1.35	1	1	0	600	600	0
3/20/2025 20:59	44203	POIN_T2	0	0	0	0	0	0	-1.11	-1.1	2	2	0	2100	2100	0
3/20/2025 20:59	54505	ENOL_T2	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 20:59	14801	TREI_T2	81	100	19	0.27	0.32	0.05	0	0	0	0	0	0	0	0
3/20/2025 20:59	54601	SUMM_T2	12	12	0	0.46	0.73	0.27	0	0	0	0	0	0	0	0
3/20/2025 20:59	14402	SSLA_T1	318	370	52	0.28	0.34	0.06	0	0	0	0	0	0	0	0
3/20/2025 20:59	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:59	14401	SSLA_T1	81	126	45	0.18	0.2	0.02	-0.65	-0.67	0	0	0	0	0	0
3/20/2025 20:59	16901	MECK_T1	4	5	1	0.38	0.36	-0.02	0	0	0	0	0	0	0	0
3/20/2025 20:59	23203	HIRU_T2	229	347	118	0.34	0.35	0.01	0	0	0	0	0	0	0	0
3/20/2025 20:59	54501	ENOL_T2	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
3/20/2025 20:59	23201	HIRU_T2	214	238	24	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/20/2025 20:59	43802	SWIL_T1	0	0	0	0	0	0	-0.28	-0.28	1	1	0	600	600	0
3/20/2025 20:59	23902	EFMO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 20:59	16902	MECK_T1	11	20	9	0.11	0.16	0.05	0.06	0.06	0	0	0	0	0	0
3/20/2025 20:59	14802	TREI_T2	21	29	8	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/20/2025 20:59	44505	HAMI_T2	0	0	0	0	0	0	0.83	0.85	0	0	0	0	0	0
3/20/2025 20:59	14403	SSLA_T1	12	15	3	0.27	0.28	0.01	0	0	0	0	0	0	0	0
3/20/2025 20:59	67901	WNHO_T2	0	0	0	0	0	0	-0.61	-0.62	1	1	0	900	900	0
3/20/2025 20:59	66504	SMAN_T2	0	0	0	0	0	0	-0.75	-0.66	0	0	0	0	0	0
3/20/2025 21:00	44502	HAMI_T2	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
3/20/2025 21:00	14801	TREI_T2	94	107	13	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
3/20/2025 21:00	13302	ORVI_T2	0	0	0	0	0	0	1.36	1.24	0	0	0	0	0	0
3/20/2025 21:00	13303	ORVI_T1	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
3/20/2025 21:00	58401	MORO_T1	0	0	0	0	0	0	-1.37	-1.35	1	1	0	600	600	0
3/20/2025 21:00	17802	GILB_T1	0	0	0	0	0	0	0.03	0.01	0	0	0	0	0	0
3/20/2025 21:00	63501	HEID_TBK1-2	26	37	11	0.2	0.41	0.21	0.29	0.26	0	0	0	0	0	0
3/20/2025 21:00	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:00	14802	TREI_T2	26	29	3	0.27	0.27	0	0.31	0.29	0	0	0	0	0	0
3/20/2025 21:00	14402	SSLA_T1	331	375	44	0.34	0.35	0.01	0	0	0	0	0	0	0	0
3/20/2025 21:00	14404	SSLA_T1	128	175	47	0.17	0.2	0.03	-0.12	-0.17	0	0	0	0	0	0
3/20/2025 21:00	17001	RIRO_T1	0	0	0	0	0	0	-0.1	-0.09	0	0	0	0	0	0
3/20/2025 21:00	23502	GEOR_T1	0	0	0	0	0	0	-0.51	-0.44	0	0	0	0	0	0
3/20/2025 21:00	14403	SSLA_T1	15	16	1	0.25	0.27	0.02	0.51	0.51	0	0	0	0	0	0
3/20/2025 21:00	14401	SSLA_T1	120	113	-7	0.19	0.19	0	0	0	0	0	0	0	0	0
3/20/2025 21:00	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:01	14404	SSLA_T1	128	175	47	0.17	0.2	0.03	-0.24	-0.34	0	0	0	0	0	0
3/20/2025 21:01	40504	CRES_T1	187	299	112	0.26	0.28	0.02	0	0	0	0	0	0	0	0
3/20/2025 21:01	20401	ASHF_T2	11	11	0	0.4	0.46	0.06	0	0	0	0	0	0	0	0
3/20/2025 21:01	65207	PRIN_T4	2	2	0	1.6	1.85	0.25	0	0	0	0	0	0	0	0
3/20/2025 21:01	43402	BENT_T1	31	83	52	0.16	0.26	0.1	-1.04	-1.06	1	1	0	900	900	0
3/20/2025 21:01	42701	AUGU_T1	1	0	-1	0.9	0	-0.9	0	0	2	2	0	1800	1800	0
3/20/2025 21:01	11803	FRAN_T2	1	0	-1	0.7	0	-0.7	0	0	0	0	0	0	0	0
3/20/2025 21:01	65205	PRIN_T1	1	1	0	1.3	1.5	0.2	0	0	0	0	0	0	0	0
3/20/2025 21:01	20402	ASHF_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 21:01	16301	ALPA_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
3/20/2025 21:01	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:01	40505	CRES_T1	51	78	27	0.2	0.31	0.11	0	0	0	0	0	0	0	0
3/20/2025 21:01	20403	ASHF_T2	7	12	5	0.16	0.23	0.07	0	0	0	0	0	0	0	0
3/20/2025 21:01	40101	HUNT_T2	0	0	0	0	0	0	-1.8	-1.8	0	0	0	0	0	0
3/20/2025 21:01	65202	PRIN_T1	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/20/2025 21:01	67601	WARW_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:01	14802	TREI_T2	26	29	3	0.27	0.27	0	0.31	0.29	0	0	0	0	0	0
3/20/2025 21:01	44203	POIN_T2	0	0	0	0	0	0	-1.11	-1.1	2	2	0	2100	2100	0
3/20/2025 21:01	65206	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:01	14402	SSLA_T1	331	375	44	0.34	0.35	0.01	0	0	0	0	0	0	0	0
3/20/2025 21:01	45501	DERR_T2	0	0	0	0	0	0	0.12	0.02	2	2	0	1800	1800	0
3/20/2025 21:01	11801	FRAN_T2	0	0	0	0	0	0	-0.1	-0.05	0	0	0	0	0	0
3/20/2025 21:01	67605	WARW_T1	18	26	8	0.53	0.54	0.01	-0.93	-0.99	0	0	0	0	0	0
3/20/2025 21:01	14401	SSLA_T1	120	113	-7	0.19	0.19	0	0	0	0	0	0	0	0	0
3/20/2025 21:01	14403	SSLA_T1	15	16	1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
3/20/2025 21:01	58401	MORO_T1	0	0	0	0	0	0	-4.11	-4.05	3	3	0	1800	1800	0
3/20/2025 21:01	23901	EFMO_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/20/2025 21:01	14801	TREI_T2	94	107	13	0.32	0.28	-0.04	0.3	0.31	0	0	0	0	0	0
3/20/2025 21:01	40503	CRES_T1	11	17	6	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/20/2025 21:01	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:01	16302	ALPA_T2	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
3/20/2025 21:02	45501	DERR_T2	0	0	0	0	0	0	0.12	0.02	2	2	0	1800	1800	0
3/20/2025 21:02	13303	ORVI_T1	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
3/20/2025 21:02	10401	LIGA_T1	108	129	21	0.44	0.42	-0.02	0	0	0	0	0	0	0	0
3/20/2025 21:02	44802	EDAN_T2	0	0	0	0	0	0	-0.98	-0.99	0	0	0	0	0	0
3/20/2025 21:02	14404	SSLA_T1	128	175	47	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/20/2025 21:02	16902	MECK_T1	14	22	8	0.15	0.15	0	0.06	0.06	0	0	0	0	0	0
3/20/2025 21:02	14401	SSLA_T1	120	113	-7	0.19	0.19	0	-1.3	-1.34	0	0	0	0	0	0
3/20/2025 21:02	14802	TREI_T2	26	29	3	0.27	0.27	0	0	0	0	0	0	0	0	0
3/20/2025 21:02	44201	POIN_T1	38	70	32	0.13	0.18	0.05	-2.37	-2.42	1	1	0	1200	1200	0
3/20/2025 21:02	14403	SSLA_T1	15	16	1	0.25	0.27	0.02	0	0	0	0	0	0	0	0
3/20/2025 21:02	24102	EHAZ_T1	2	6	4	0.5	0.88	0.38	0	0	0	0	0	0	0	0
3/20/2025 21:02	14402	SSLA_T1	331	375	44	0.34	0.35	0.01	0	0	0	0	0	0	0	0
3/20/2025 21:02	11201	ELHE_T2	0	0	0	0	0	0	-0.18	-0.24	2	2	0	2400	2400	0
3/20/2025 21:02	24105	EHAZ_T1	4	4	0	5.75	5.55	-0.2	0	0	0	0	0	0	0	0
3/20/2025 21:02	20603	GRWO_T2	156	184	28	0.42	0.51	0.09	0	0	0	0	0	0	0	0
3/20/2025 21:02	53902	HALI_T2	1	1	0	5.5	5.6	0.1	-0.32	-0.31	0	0	0	0	0	0
3/20/2025 21:02	20601	GRWO_T2	0	0	0	0	0	0	0.72	0.7	0	0	0	0	0	0
3/20/2025 21:02	44801	EDAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 21:02	14801	TREI_T2	94	107	13	0.32	0.28	-0.04	0.3	0.31	0	0	0	0	0	0
3/20/2025 21:02	53903	HALI_T2	2	2	0	1.35	0.45	-0.9	-0.19	-0.18	0	0	0	0	0	0
3/20/2025 21:02	13905	SEID_T1	0	0	0	0	0	0	0.2	0.21	0	0	0	0	0	0
3/20/2025 21:02	20602	GRWO_T2	26	44	18	0.13	0.21	0.08	0	0	0	0	0	0	0	0
3/20/2025 21:02	41201	KENM_T2	1	15	14	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/20/2025 21:02	24101	EHAZ_T1	0	3	3	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:02	43402	BENT_T1	31	83	52	0.16	0.26	0.1	-1.04	-1.06	1	1	0	900	900	0
3/20/2025 21:02	41202	KENM_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/20/2025 21:02	16901	MECK_T1	5	4	-1	0.36	0.43	0.07	0	0	0	0	0	0	0	0
3/20/2025 21:02	53901	HALI_T2	1	1	0	0.2	0.5	0.3	0.05	0.04	0	0	0	0	0	0
3/20/2025 21:02	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:02	24104	EHAZ_T1	0	0	0	0	0	0	-2.27	-2.27	1	1	0	1200	1200	0
3/20/2025 21:02	42903	MIDD_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/20/2025 21:02	16302	ALPA_T2	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
3/20/2025 21:03	52402	GRPA_T2	6	6	0	1.43	1.28	-0.15	0	0	0	0	0	0	0	0
3/20/2025 21:03	22602	KIMB_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/20/2025 21:03	41202	KENM_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/20/2025 21:03	22601	KIMB_T1	0	0	0	0	0	0	0.24	0.23	0	0	0	0	0	0
3/20/2025 21:03	52401	GRPA_T2	40	63	23	0.16	0.2	0.04	0	0	0	0	0	0	0	0
3/20/2025 21:03	52101	MEIS_T1	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/20/2025 21:03	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:03	52404	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/20/2025 21:03	43801	SWIL_T1	6	11	5	1.17	0.77	-0.4	0	0	0	0	0	0	0	0
3/20/2025 21:03	53501	EVIL_T2	2	2	0	0.5	0.55	0.05	-0.51	-0.49	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/20/2025 21:03	41201	KENM_T2	1	15	14	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/20/2025 21:03	16901	MECK_T1	5	4	-1	0.36	0.43	0.07	0	0	0	0	0	0	0	0
3/20/2025 21:03	44701	MUNC_T2	38	96	58	0.15	0.17	0.02	0	0	0	0	0	0	0	0
3/20/2025 21:03	10903	COOP_T2	0	0	0	0	0	0	-0.51	-0.51	1	1	0	600	600	0
3/20/2025 21:03	16902	MECK_T1	14	22	8	0.15	0.15	0	0.06	0.06	0	0	0	0	0	0
3/20/2025 21:03	67605	WARW_T1	18	26	8	0.53	0.54	0.01	0	0	0	0	0	0	0	0
3/20/2025 21:03	11201	ELHE_T2	0	0	0	0	0	0	-0.18	-0.24	2	2	0	2400	2400	0
3/20/2025 21:03	15601	NSTR_T2	3	3	0	0.63	0.7	0.07	0	0	0	0	0	0	0	0
3/20/2025 21:03	16302	ALPA_T2	0	0	0	0	0	0	0.49	0.51	0	0	0	0	0	0
3/20/2025 21:03	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:03	44702	MUNC_T2	1	7	6	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
3/20/2025 21:03	15603	NSTR_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/20/2025 21:03	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/20/2025 21:03	14401	SSLA_T1	120	113	-7	0.19	0.19	0	-0.65	-0.67	0	0	0	0	0	0
3/20/2025 21:03	14403	SSLA_T1	15	16	1	0.25	0.27	0.02	0.51	0.51	0	0	0	0	0	0
3/20/2025 21:03	14404	SSLA_T1	128	175	47	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/20/2025 21:03	43802	SWIL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:03	14402	SSLA_T1	331	375	44	0.34	0.35	0.01	0	0	0	0	0	0	0	0
3/20/2025 21:03	52403	GRPA_T2	11	13	2	0.48	0.75	0.27	0	0	0	0	0	0	0	0
3/20/2025 21:04	40504	CRES_T1	187	299	112	0.26	0.28	0.02	0	0	0	0	0	0	0	0
3/20/2025 21:04	67605	WARW_T1	18	26	8	0.53	0.54	0.01	-0.93	-0.99	0	0	0	0	0	0
3/20/2025 21:04	15603	NSTR_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/20/2025 21:04	15601	NSTR_T2	3	3	0	0.63	0.7	0.07	0	0	0	0	0	0	0	0
3/20/2025 21:04	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:04	40503	CRES_T1	11	17	6	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/20/2025 21:04	15602	NSTR_T2	0	0	0	0	0	0	0.08	0.13	0	0	0	0	0	0
3/20/2025 21:04	55105	WERT_T1	0	0	0	0	0	0	-0.85	-0.81	1	1	0	900	900	0
3/20/2025 21:04	40505	CRES_T1	51	78	27	0.2	0.31	0.11	0.45	0.47	0	0	0	0	0	0
3/20/2025 21:04	11202	ELHE_T2	0	0	0	0	0	0	0.4	0.37	1	1	0	1200	1200	0
3/20/2025 21:05	16301	ALPA_T1	0	0	0	0	0	0	-0.18	-0.2	0	0	0	0	0	0
3/20/2025 21:05	46901	MNTG_T2	0	0	0	0	0	0	-0.5	-0.28	1	1	0	1200	1200	0
3/20/2025 21:05	52401	GRPA_T2	40	63	23	0.16	0.2	0.04	-1.44	-1.38	0	0	0	0	0	0
3/20/2025 21:05	14802	TREI_T2	26	29	3	0.27	0.27	0	0	0	0	0	0	0	0	0
3/20/2025 21:05	52402	GRPA_T2	6	6	0	1.43	1.28	-0.15	0	0	0	0	0	0	0	0
3/20/2025 21:05	13303	ORVI_T1	0	0	0	0	0	0	0.74	0.75	0	0	0	0	0	0
3/20/2025 21:05	14801	TREI_T2	94	107	13	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
3/20/2025 21:05	46903	MNTG_T2	22	10	-12	0.11	0.1	-0.01	0	0	0	0	0	0	0	0
3/20/2025 21:05	52404	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/20/2025 21:05	44505	HAMI_T2	0	0	0	0	0	0	0.83	0.85	0	0	0	0	0	0
3/20/2025 21:05	52403	GRPA_T2	11	13	2	0.48	0.75	0.27	0	0	0	0	0	0	0	0
3/20/2025 21:05	44502	HAMI_T2	1	1	0	3.2	3.4	0.2	0	0	0	0	0	0	0	0
3/20/2025 21:05	44701	MUNC_T2	38	96	58	0.15	0.17	0.02	-1.48	-1.48	0	0	0	0	0	0
3/20/2025 21:05	44702	MUNC_T2	1	7	6	0.2	0.13	-0.07	0	0	0	0	0	0	0	0
3/20/2025 21:06	53901	HALI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/20/2025 21:06	44801	EDAN_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/20/2025 21:06	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:06	44802	EDAN_T2	0	0	0	0	0	0	-0.99	-1	0	0	0	0	0	0
3/20/2025 21:06	45501	DERR_T2	0	0	0	0	0	0	0.02	-0.15	2	2	0	1800	1800	0
3/20/2025 21:06	53903	HALI_T2	2	2	0	1.35	0.45	-0.9	-0.19	-0.18	0	0	0	0	0	0
3/20/2025 21:06	41202	KENM_T2	1	1	0	0.8	1	0.2	0	0	0	0	0	0	0	0
3/20/2025 21:06	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
3/20/2025 21:06	14801	TREI_T2	94	107	13	0.32	0.28	-0.04	0	0	0	0	0	0	0	0
3/20/2025 21:06	15001	BLMO_T1	4	4	0	0.65	0.68	0.03	0	0	0	0	0	0	0	0
3/20/2025 21:06	23401	HONE_T2	0	0	0	0	0	0	-0.34	-0.32	0	0	0	0	0	0
3/20/2025 21:06	41204	KENM_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
3/20/2025 21:06	16301	ALPA_T1	0	0	0	0	0	0	-0.2	-0.17	0	0	0	0	0	0
3/20/2025 21:06	41201	KENM_T2	1	15	14	0.1	0.16	0.06	0	0	0	0	0	0	0	0
3/20/2025 21:06	14802	TREI_T2	26	29	3	0.27	0.27	0	0.29	0.28	0	0	0	0	0	0
3/20/2025 21:07	15601	NSTR_T2	3	3	0	0.63	0.7	0.07	0	0	0	0	0	0	0	0
3/20/2025 21:07	16302	ALPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:07	11201	ELHE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:07	50504	MECH_T1	143	407	264	0.16	0.29	0.13	0	0	0	0	0	0	0	0
3/20/2025 21:07	42902	MIDD_T2	0	0	0	0	0	0	-1.06	-1	0	0	0	0	0	0
3/20/2025 21:07	50501	MECH_T1	220	494	274	0.19	0.34	0.15	0	0	0	0	0	0	0	0
3/20/2025 21:07	50503	MECH_T1	5	116	111	0.1	0.22	0.12	0	0	0	0	0	0	0	0
3/20/2025 21:07	50502	MECH_T1	5	5	0	1.1	1.58	0.48	0	0	0	0	0	0	0	0
3/20/2025 21:07	40504	CRES_T1	187	299	112	0.26	0.28	0.02	0	0	0	0	0	0	0	0
3/20/2025 21:07	10805	CHHI_T2	1	1	0	8.2	7.9	-0.3	-0.87	-0.87	0	0	0	0	0	0
3/20/2025 21:07	42903	MIDD_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/20/2025 21:07	46203	DANV_T2	84	176	92	0.28	0.58	0.3	0.11	0.11	0	0	0	0	0	0
3/20/2025 21:07	10801	CHHI_T1	0	0	0	0	0	0	-1.09	-1.09	1	1	0	900	900	0
3/20/2025 21:07	50505	MECH_T1	8	180	172	0.11	0.15	0.04	0	0	0	0	0	0	0	0
3/20/2025 21:07	61002	DONV_T2	0	0	0	0	0	0	-1.48	-1.52	2	2	0	1200	1200	0
3/20/2025 21:07	40505	CRES_T1	51	78	27	0.2	0.31	0.11	0.16	0.14	0	0	0	0	0	0
3/20/2025 21:07	47401	PENS_T1	0	0	0	0	0	0	0.65	0.6	0	0	0	0	0	0
3/20/2025 21:07	15001	BLMO_T1	4	4	0	0.65	0.68	0.03	0	0	0	0	0	0	0	0
3/20/2025 21:07	40503	CRES_T1	11	17	6	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/20/2025 21:07	50506	MECH_T1	145	463	318	0.13	0.22	0.09	0	0	0	0	0	0	0	0
3/20/2025 21:07	15603	NSTR_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/20/2025 21:08	23901	EFMO_T2	0	0	0	0	0	0	0.06	0.06	0	0	0	0	0	0
3/20/2025 21:08	40301	TAMA_T3	7	9	2	0.33	0.25	-0.08	1.97	2	1	1	0	1200	1200	0
3/20/2025 21:08	46203	DANV_T2	84	176	92	0.28	0.58	0.3	0.11	0.11	0	0	0	0	0	0
3/20/2025 21:08	40504	CRES_T1	187	299	112	0.26	0.28	0.02	0	0	0	0	0	0	0	0
3/20/2025 21:08	22602	KIMB_T1	1	1	0	0.2	0.2	0	0.22	0.22	0	0	0	0	0	0
3/20/2025 21:08	10109	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:08	40505	CRES_T1	51	78	27	0.2	0.31	0.11	0.16	0.14	0	0	0	0	0	0
3/20/2025 21:08	40302	TAMA_T3	42	52	10	0.52	0.47	-0.05	0	0	0	0	0	0	0	0
3/20/2025 21:08	16801	WAGN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:08	40303	TAMA_T3	10	10	0	0.31	0.36	0.05	0	0	0	0	0	0	0	0
3/20/2025 21:08	40503	CRES_T1	11	17	6	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/20/2025 21:09	40503	CRES_T1	11	17	6	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/20/2025 21:09	22602	KIMB_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/20/2025 21:09	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:09	58402	MORO_T1	0	0	0	0	0	0	0.18	0.12	1	1	0	900	900	0
3/20/2025 21:09	40505	CRES_T1	51	78	27	0.2	0.31	0.11	0	0	0	0	0	0	0	0
3/20/2025 21:09	64204	KINZ_T1	1	1	0	1.4	1.3	-0.1	0	0	0	0	0	0	0	0
3/20/2025 21:09	64202	KINZ_T1	3	3	0	0.33	0.7	0.37	0	0	0	0	0	0	0	0
3/20/2025 21:09	64201	KINZ_T1	4	4	0	0.33	0.38	0.05	0	0	0	0	0	0	0	0
3/20/2025 21:09	40504	CRES_T1	187	299	112	0.26	0.28	0.02	0	0	0	0	0	0	0	0
3/20/2025 21:09	64203	KINZ_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:09	22601	KIMB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:09	53901	HALI_T2	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/20/2025 21:09	16302	ALPA_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
3/20/2025 21:09	53903	HALI_T2	2	2	0	1.35	0.45	-0.9	0	0	0	0	0	0	0	0
3/20/2025 21:09	53902	HALI_T2	1	1	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
3/20/2025 21:10	16301	ALPA_T1	0	0	0	0	0	0	-0.2	-0.17	0	0	0	0	0	0
3/20/2025 21:11	55105	WERT_T1	0	0	0	0	0	0	-0.81	-0.89	1	1	0	900	900	0
3/20/2025 21:11	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:11	44202	POIN_T2	0	0	0	0	0	0	-0.65	-0.63	1	1	0	1200	1200	0
3/20/2025 21:11	52403	GRPA_T2	11	13	2	0.48	0.75	0.27	0	0	0	0	0	0	0	0
3/20/2025 21:11	52401	GRPA_T2	40	63	23	0.16	0.2	0.04	0	0	0	0	0	0	0	0
3/20/2025 21:11	10801	CHHI_T1	0	0	0	0	0	0	-2.18	-2.19	2	2	0	1800	1800	0
3/20/2025 21:11	52404	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/20/2025 21:11	52402	GRPA_T2	6	6	0	1.43	1.28	-0.15	0	0	0	0	0	0	0	0
3/20/2025 21:11	15001	BLMO_T1	4	4	0	0.65	0.68	0.03	0	0	0	0	0	0	0	0
3/20/2025 21:11	15203	SFAR_T2	0	0	0	0	0	0	-0.76	-0.78	0	0	0	0	0	0
3/20/2025 21:12	55103	WERT_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:12	52403	GRPA_T2	11	13	2	0.48	0.75	0.27	0	0	0	0	0	0	0	0
3/20/2025 21:12	55105	WERT_T1	0	0	0	0	0	0	-0.81	-0.89	1	1	0	900	900	0
3/20/2025 21:12	52402	GRPA_T2	6	6	0	1.43	1.28	-0.15	0	0	0	0	0	0	0	0
3/20/2025 21:12	52404	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/20/2025 21:12	16302	ALPA_T2	0	0	0	0	0	0	0.51	0.49	0	0	0	0	0	0
3/20/2025 21:12	52401	GRPA_T2	40	63	23	0.16	0.2	0.04	0	0	0	0	0	0	0	0
3/20/2025 21:13	52401	GRPA_T2	40	63	23	0.16	0.2	0.04	0	0	0	0	0	0	0	0
3/20/2025 21:13	41702	LOGA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:13	52404	GRPA_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/20/2025 21:13	15601	NSTR_T2	3	3	0	0.63	0.7	0.07	0	0	0	0	0	0	0	0
3/20/2025 21:13	52403	GRPA_T2	11	13	2	0.48	0.75	0.27	0	0	0	0	0	0	0	0
3/20/2025 21:13	15603	NSTR_T2	4	0	-4	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/20/2025 21:13	52402	GRPA_T2	6	6	0	1.43	1.28	-0.15	0	0	0	0	0	0	0	0
3/20/2025 21:15	41201	KENM_T2	14	14	0	0.11	0.16	0.05	0	0	0	0	0	0	0	0
3/20/2025 21:15	41202	KENM_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/20/2025 21:15	41204	KENM_T2	0	0	0	0	0	0	-0.04	-0.04	0	0	0	0	0	0
3/20/2025 21:16	43801	SWIL_T1	8	11	3	0.98	0.71	-0.27	0	0	0	0	0	0	0	0
3/20/2025 21:16	43802	SWIL_T1	0	0	0	0	0	0	-0.28	-0.28	1	1	0	600	600	0
3/20/2025 21:17	43506	WWIL_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
3/20/2025 21:17	43504	WWIL_T1	11	11	0	0.45	0.36	-0.09	0.47	0.48	0	0	0	0	0	0
3/20/2025 21:17	43505	WWIL_T1	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
3/20/2025 21:18	47201	FAXO_T2	0	0	0	0	0	0	-2.39	-2.39	1	1	0	1200	1200	0
3/20/2025 21:18	43801	SWIL_T1	8	11	3	0.98	0.71	-0.27	0	0	0	0	0	0	0	0
3/20/2025 21:18	43802	SWIL_T1	0	0	0	0	0	0	-0.28	-0.28	1	1	0	600	600	0
3/20/2025 21:19	46801	HEPB_T2	2	2	0	0.85	1.1	0.25	0	0	0	0	0	0	0	0
3/20/2025 21:19	46803	HEPB_T2	0	0	0	0	0	0	0.43	0.42	0	0	0	0	0	0
3/20/2025 21:20	44301	BEAV_T2	0	0	0	0	0	0	-0.11	-0.02	1	1	0	600	600	0
3/20/2025 21:20	46801	HEPB_T2	2	2	0	0.85	1.1	0.25	0	0	0	0	0	0	0	0
3/20/2025 21:20	46803	HEPB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:21	43801	SWIL_T1	8	11	3	0.98	0.71	-0.27	0	0	0	0	0	0	0	0
3/20/2025 21:21	46602	LACR_T1	5	3	-2	0.16	0.13	-0.03	-0.78	-0.79	0	0	0	0	0	0
3/20/2025 21:21	53901	HALI_T2	1	1	0	0.3	0.5	0.2	0.04	0.06	0	0	0	0	0	0
3/20/2025 21:21	46801	HEPB_T2	2	2	0	0.85	1.1	0.25	0.44	0.44	0	0	0	0	0	0
3/20/2025 21:21	43802	SWIL_T1	0	0	0	0	0	0	-0.28	-0.31	1	1	0	600	600	0
3/20/2025 21:21	53902	HALI_T2	1	1	0	5.6	5.6	0	0	0	0	0	0	0	0	0
3/20/2025 21:21	53903	HALI_T2	1	2	1	0.2	0.65	0.45	0	0	0	0	0	0	0	0
3/20/2025 21:22	40902	JESH_T1	0	0	0	0	0	0	-0.97	-0.93	0	0	0	0	0	0
3/20/2025 21:22	46801	HEPB_T2	2	2	0	0.85	1.1	0.25	0.44	0.44	0	0	0	0	0	0
3/20/2025 21:23	52402	GRPA_T2	6	6	0	1.25	1.27	0.02	0	0	0	0	0	0	0	0
3/20/2025 21:23	43505	WWIL_T1	1	1	0	2.4	2.3	-0.1	0	0	0	0	0	0	0	0
3/20/2025 21:23	46801	HEPB_T2	2	2	0	0.85	1.1	0.25	0	0	0	0	0	0	0	0
3/20/2025 21:23	52404	GRPA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/20/2025 21:23	43506	WWIL_T1	1	1	0	1.5	1.5	0	0	0	0	0	0	0	0	0
3/20/2025 21:23	52403	GRPA_T2	13	13	0	0.75	0.69	-0.06	0	0	0	0	0	0	0	0
3/20/2025 21:23	52401	GRPA_T2	63	73	10	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
3/20/2025 21:23	40902	JESH_T1	0	0	0	0	0	0	-0.97	-0.93	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/20/2025 21:23	40903	JESH_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2025 21:23	43504	WWIL_T1	11	11	0	0.45	0.36	-0.09	0.48	0.49	0	0	0	0	0	0
3/20/2025 21:24	46801	HEPB_T2	2	2	0	0.85	1.1	0.25	0.44	0.44	0	0	0	0	0	0
3/20/2025 21:25	47203	FAXO_T2	0	0	0	0	0	0	-0.47	-0.47	0	0	0	0	0	0
3/20/2025 21:26	52404	GRPA_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/20/2025 21:26	52401	GRPA_T2	63	73	10	0.19	0.18	-0.01	0	0	0	0	0	0	0	0
3/20/2025 21:26	52402	GRPA_T2	6	6	0	1.25	1.27	0.02	0	0	0	0	0	0	0	0
3/20/2025 21:26	52403	GRPA_T2	13	13	0	0.75	0.69	-0.06	0	0	0	0	0	0	0	0
3/20/2025 21:31	46506	LOHA_T1	3	3	0	5.4	5.47	0.07	0	0	0	0	0	0	0	0
3/20/2025 21:31	46504	LOHA_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/20/2025 21:31	46501	LOHA_T1	0	0	0	0	0	-0.2	-0.16	1	1	0	0	1200	1200	0
3/20/2025 21:32	46506	LOHA_T1	3	3	0	5.4	5.47	0.07	-0.13	-0.14	0	0	0	0	0	0
3/20/2025 21:32	46504	LOHA_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/20/2025 21:33	67605	WARW_T1	26	38	12	0.54	0.51	-0.03	0	0	0	0	0	0	0	0
3/20/2025 21:33	67603	WARW_T1	0	0	0	0	0	0	-0.16	-0.19	0	0	0	0	0	0
3/20/2025 21:34	46506	LOHA_T1	3	3	0	5.4	5.47	0.07	0	0	0	0	0	0	0	0
3/20/2025 21:34	46504	LOHA_T1	0	2	2	0	0.3	0.3	0	0	0	0	0	0	0	0
3/20/2025 21:35	46002	BERW_T2	0	0	0	0	0	0	-0.32	-0.31	0	0	0	0	0	0
3/20/2025 21:38	22701	MINO_T1	0	0	0	0	0	0	-0.51	-0.54	0	0	0	0	0	0
3/20/2025 21:59	28102	TWLA_T2	17	22	5	0.38	0.48	0.1	0.15	0.16	0	0	0	0	0	0
3/20/2025 22:18	48302	ORWI_T2	166	174	8	0.31	0.32	0.01	-0.22	-0.24	0	0	0	0	0	0
3/20/2025 22:18	48303	ORWI_T2	158	193	35	0.23	0.25	0.02	0	0	0	0	0	0	0	0
3/20/2025 23:13	45802	HEGI_T2	44	40	-4	0.86	0.61	-0.25	0	0	0	0	0	0	0	0
3/21/2025 1:25	52403	GRPA_T2	1	72	71	0.3	0.7	0.4	0	0	0	0	0	0	0	0
3/21/2025 1:25	52401	GRPA_T2	0	88	88	0	0.77	0.77	-1.46	-1.42	0	0	0	0	0	0
3/21/2025 1:25	52402	GRPA_T2	1	37	36	0.3	0.72	0.42	0	0	0	0	0	0	0	0
3/21/2025 7:42	41304	FISH_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 7:43	53501	EVIL_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
3/21/2025 7:53	66504	SMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 7:53	66505	SMAN_T2	1	1	0	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/21/2025 7:56	51108	CARL_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 7:56	51109	CARL_T1	0	0	0	0	0	0	-1.04	-1.04	1	1	0	1200	1200	0
3/21/2025 7:56	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 7:56	51101	CARL_T1	1	1	0	6.1	5.7	-0.4	0	0	0	0	0	0	0	0
3/21/2025 8:08	67001	STHI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/21/2025 8:08	67002	STHI_T2	0	0	0	0	0	0	0.6	0.6	0	0	0	0	0	0
3/21/2025 8:12	45501	DERR_T2	0	1	1	0	0	0	-0.01	-0.02	2	2	0	1800	1800	0
3/21/2025 8:16	46502	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 8:16	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
3/21/2025 8:16	46506	LOHA_T1	3	3	0	4.53	4.4	-0.13	0	0	0	0	0	0	0	0
3/21/2025 8:16	46504	LOHA_T1	1	8	7	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/21/2025 8:17	46506	LOHA_T1	3	3	0	4.53	4.4	-0.13	0	0	0	0	0	0	0	0
3/21/2025 8:17	46503	LOHA_T1	0	0	0	0	0	0	-0.62	-0.63	0	0	0	0	0	0
3/21/2025 8:17	46502	LOHA_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 8:17	46504	LOHA_T1	1	8	7	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/21/2025 8:19	58302	NOTT_T1	0	0	0	0	0	0	-1.29	-1.28	2	2	0	2100	2100	0
3/21/2025 8:21	57201	ROSS_T1	4	7	3	0.1	0.13	0.03	-1.36	-1.35	0	0	0	0	0	0
3/21/2025 8:26	51101	CARL_T1	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
3/21/2025 8:26	51109	CARL_T1	0	0	0	0	0	0	-1.06	-1.05	1	1	0	1200	1200	0
3/21/2025 8:26	51104	CARL_T1	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
3/21/2025 8:26	51108	CARL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/21/2025 8:27	51102	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 8:27	51104	CARL_T1	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
3/21/2025 8:27	51101	CARL_T1	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
3/21/2025 8:27	51108	CARL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/21/2025 8:28	51101	CARL_T1	1	1	0	5.7	5.4	-0.3	0	0	0	0	0	0	0	0
3/21/2025 8:28	40501	CRES_T2	9	9	0	0.22	0.29	0.07	0	0	0	0	0	0	0	0
3/21/2025 8:28	51104	CARL_T1	1	1	0	1.1	0	-1.1	0	0	0	0	0	0	0	0
3/21/2025 8:28	51108	CARL_T1	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/21/2025 8:28	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 8:29	55502	HERS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 8:29	63501	HEID_TBK1-2	1	24	23	0.5	0.18	-0.32	-0.29	-0.21	1	1	0	900	900	0
3/21/2025 8:29	55508	HERS_T2	2	2	0	1.6	1.8	0.2	0	0	0	0	0	0	0	0
3/21/2025 8:32	53502	EVIL_T2	0	0	0	0	0	0	0.13	0.2	2	2	0	1200	1200	0
3/21/2025 8:32	53501	EVIL_T2	2	2	0	0.65	0.95	0.3	0	0	0	0	0	0	0	0
3/21/2025 8:33	43202	MVIL_T2	59	64	5	0.47	0.77	0.3	-0.61	-0.59	0	0	0	0	0	0
3/21/2025 8:36	43202	MVIL_T2	59	64	5	0.47	0.77	0.3	-0.59	-0.63	0	0	0	0	0	0
3/21/2025 8:36	55002	NEWP_T1	6	7	1	0.43	1.1	0.67	-0.24	-0.23	0	0	0	0	0	0
3/21/2025 8:36	55001	NEWP_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/21/2025 8:40	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 8:40	51109	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 8:40	51108	CARL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/21/2025 8:40	51101	CARL_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
3/21/2025 8:42	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 8:42	51108	CARL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/21/2025 8:42	51109	CARL_T1	0	0	0	0	0	0	-1.05	-1.07	1	1	0	1200	1200	0
3/21/2025 8:42	51101	CARL_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
3/21/2025 8:43	63501	HEID_TBK1-2	2	28	26	0.65	0.17	-0.48	-0.21	-0.23	1	1	0	900	900	0
3/21/2025 8:43	41801	GOCI_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/21/2025 8:44	51104	CARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 8:44	51108	CARL_T1	1	1	0	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/21/2025 8:44	51109	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 8:44	51101	CARL_T1	1	1	0	5.4	5.5	0.1	0	0	0	0	0	0	0	0
3/21/2025 8:45	40101	HUNT_T2	0	0	0	0	0	0	-1.55	-1.58	0	0	0	0	0	0
3/21/2025 8:45	63501	HEID_TBK1-2	24	35	11	0.17	0.25	0.08	0.21	0.23	1	1	0	900	900	0
3/21/2025 8:46	41801	GOCI_T2	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
3/21/2025 8:47	63501	HEID_TBK1-2	24	35	11	0.17	0.25	0.08	-0.21	-0.23	1	1	0	900	900	0
3/21/2025 8:47	43202	MVIL_T2	61	64	3	0.59	0.76	0.17	-0.59	-0.63	0	0	0	0	0	0
3/21/2025 8:47	46102	MACI_T1	0	0	0	0	0	0	0.64	0.63	0	0	0	0	0	0
3/21/2025 8:48	43202	MVIL_T2	61	64	3	0.59	0.76	0.17	-0.59	-0.63	0	0	0	0	0	0
3/21/2025 8:49	50501	MECH_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 8:49	43202	MVIL_T2	61	64	3	0.59	0.76	0.17	-0.59	-0.63	0	0	0	0	0	0
3/21/2025 8:49	50502	MECH_T1	5	5	0	1.32	1.52	0.2	-0.77	-0.86	1	1	0	900	900	0
3/21/2025 8:55	51104	CARL_T1	1	0	-1	4	0	-4	0	0	0	0	0	0	0	0
3/21/2025 8:55	51108	CARL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/21/2025 8:55	51107	CARL_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 8:55	51101	CARL_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
3/21/2025 8:56	40502	CRES_T2	0	8	8	0	0.11	0.11	0.06	0.06	0	0	0	0	0	0
3/21/2025 8:56	40501	CRES_T2	7	11	4	0.17	0.38	0.21	0	0	0	0	0	0	0	0
3/21/2025 8:59	51109	CARL_T1	0	0	0	0	0	0	-1.07	-1.06	1	1	0	1200	1200	0
3/21/2025 8:59	51101	CARL_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
3/21/2025 8:59	51104	CARL_T1	1	0	-1	4	0	-4	0	0	0	0	0	0	0	0
3/21/2025 8:59	51108	CARL_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/21/2025 9:01	63802	HEMP_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 9:01	46506	LOHA_T1	3	3	0	4.87	4.87	0	0	0	0	0	0	0	0	0
3/21/2025 9:01	46504	LOHA_T1	1	2	1	0.3	0.75	0.45	0	0	0	0	0	0	0	0
3/21/2025 9:01	46503	LOHA_T1	0	0	0	0	0	0	-0.63	-0.62	0	0	0	0	0	0
3/21/2025 9:01	63804	HEMP_T1	1	1	0	5.9	5.8	-0.1	0	0	0	0	0	0	0	0
3/21/2025 9:01	46502	LOHA_T1	1	0	-1	5.8	0	-5.8	0	0	0	0	0	0	0	0
3/21/2025 9:01	63801	HEMP_T1	0	0	0	0	0	0	0.23	0.24	0	0	0	0	0	0
3/21/2025 9:04	65702	RVIL_T2	2	5	3	0.25	0.28	0.03	0	0	0	0	0	0	0	0
3/21/2025 9:06	58201	NEWV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 9:07	42601	TUSC_T1	0	1	1	0	0.1	0.1	-0.36	-0.35	2	2	0	1800	1800	0
3/21/2025 9:07	44301	BEAV_T2	1	2	1	1	0.7	-0.3	0	0	0	0	0	0	0	0
3/21/2025 9:08	42601	TUSC_T1	0	1	1	0	0.1	0.1	-0.36	-0.35	2	2	0	1800	1800	0
3/21/2025 9:11	46201	DANV_T2	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/21/2025 9:11	46203	DANV_T2	325	332	7	0.72	0.82	0.1	-0.97	-0.97	0	0	0	0	0	0
3/21/2025 9:13	61301	EARL_T1	0	0	0	0	0	0	-0.41	-0.42	1	1	0	900	900	0
3/21/2025 9:13	61302	EARL_T1	1	1	0	0.2	1	0.8	0	0	0	0	0	0	0	0
3/21/2025 9:15	46506	LOHA_T1	3	3	0	4.87	4.23	-0.64	-0.03	-0.06	0	0	0	0	0	0
3/21/2025 9:15	64203	KINZ_T1	0	0	0	0	0	0	0.84	0.87	2	2	0	900	900	0
3/21/2025 9:15	64204	KINZ_T1	2	17	15	0.8	0.29	-0.51	0	0	0	0	0	0	0	0
3/21/2025 9:15	46504	LOHA_T1	2	2	0	0.75	0.35	-0.4	0	0	0	0	0	0	0	0
3/21/2025 9:15	64202	KINZ_T1	2	3	1	0.15	0.47	0.32	0	0	0	0	0	0	0	0
3/21/2025 9:16	41801	GOCI_T2	1	93	92	0.5	0.26	-0.24	0	0	0	0	0	0	0	0
3/21/2025 9:16	46506	LOHA_T1	3	3	0	4.87	4.23	-0.64	-0.03	-0.06	0	0	0	0	0	0
3/21/2025 9:16	64204	KINZ_T1	2	17	15	0.8	0.29	-0.51	0	0	0	0	0	0	0	0
3/21/2025 9:16	64202	KINZ_T1	2	3	1	0.15	0.47	0.32	0	0	0	0	0	0	0	0
3/21/2025 9:16	64203	KINZ_T1	0	0	0	0	0	0	0.84	0.87	2	2	0	900	900

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/21/2025 9:17	50506	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 9:17	50504	MECH_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 9:17	50502	MECH_T1	5	5	0	1.52	1.68	0.16	0	0	0	0	0	0	0	0
3/21/2025 9:17	60504	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 9:17	50501	MECH_T1	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/21/2025 9:17	60501	NMAN_T2	48	51	3	0.23	0.26	0.03	0	0	0	0	0	0	0	0
3/21/2025 9:17	57501	LAWN_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 9:17	53802	MBRG_T2	0	0	0	0	0	0	0.88	0.95	0	0	0	0	0	0
3/21/2025 9:18	53802	MBRG_T2	0	0	0	0	0	0	0.88	0.95	0	0	0	0	0	0
3/21/2025 9:18	50505	MECH_T1	0	1	1	0	0.1	0.1	-1.72	-1.72	0	0	0	0	0	0
3/21/2025 9:18	50501	MECH_T1	1	3	2	0.2	0.23	0.03	-0.59	-0.49	0	0	0	0	0	0
3/21/2025 9:18	64203	KINZ_T1	0	0	0	0	0	0	0.84	0.87	2	2	0	900	900	0
3/21/2025 9:18	64202	KINZ_T1	2	3	1	0.15	0.47	0.32	0	0	0	0	0	0	0	0
3/21/2025 9:18	50504	MECH_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 9:18	55002	NEWP_T1	9	11	2	0.98	0.98	0	-0.23	-0.21	0	0	0	0	0	0
3/21/2025 9:18	64204	KINZ_T1	2	17	15	0.8	0.29	-0.51	0	0	0	0	0	0	0	0
3/21/2025 9:18	64201	KINZ_T1	0	0	0	0	0	0	-0.5	-0.51	3	3	0	1500	1500	0
3/21/2025 9:18	50502	MECH_T1	5	5	0	1.52	1.68	0.16	-0.77	-0.79	1	1	0	900	900	0
3/21/2025 9:18	51002	NHAR_T1	4	1	-3	0.45	1.4	0.95	0	0	0	0	0	0	0	0
3/21/2025 9:18	51004	NHAR_T1	2	2	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
3/21/2025 9:18	55001	NEWP_T1	1	2	1	1	0.65	-0.35	-0.33	-0.33	0	0	0	0	0	0
3/21/2025 9:18	51003	NHAR_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
3/21/2025 9:18	50506	MECH_T1	0	1	1	0	0.1	0.1	0.16	0.14	0	0	0	0	0	0
3/21/2025 9:19	55002	NEWP_T1	9	11	2	0.98	0.98	0	-0.46	-0.42	0	0	0	0	0	0
3/21/2025 9:19	50505	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 9:19	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 9:19	57501	LAWN_T3	0	0	0	0	0	0	-0.81	-0.81	0	0	0	0	0	0
3/21/2025 9:19	50501	MECH_T1	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/21/2025 9:19	55001	NEWP_T1	1	2	1	1	0.65	-0.35	-0.33	-0.33	0	0	0	0	0	0
3/21/2025 9:19	50506	MECH_T1	0	1	1	0	0.1	0.1	0.16	0.14	0	0	0	0	0	0
3/21/2025 9:19	50502	MECH_T1	5	5	0	1.52	1.68	0.16	0	0	0	0	0	0	0	0
3/21/2025 9:19	50504	MECH_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 9:20	51002	NHAR_T1	4	1	-3	0.45	1.4	0.95	0	0	0	0	0	0	0	0
3/21/2025 9:20	50502	MECH_T1	5	5	0	1.52	1.68	0.16	0	0	0	0	0	0	0	0
3/21/2025 9:20	53801	MBRG_T2	0	0	0	0	0	0	-0.58	-0.55	0	0	0	0	0	0
3/21/2025 9:20	50501	MECH_T1	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/21/2025 9:20	58401	MORO_T1	0	0	0	0	0	0	-1.04	-1.05	1	1	0	600	600	0
3/21/2025 9:20	66504	SMAN_T2	1	1	0	0.2	0.7	0.5	-0.31	-0.4	0	0	0	0	0	0
3/21/2025 9:20	50504	MECH_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 9:20	66505	SMAN_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/21/2025 9:20	64203	KINZ_T1	0	0	0	0	0	0	0.84	0.87	2	2	0	900	900	0
3/21/2025 9:20	51003	NHAR_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
3/21/2025 9:20	60501	NMAN_T2	48	51	3	0.23	0.26	0.03	0	0	0	0	0	0	0	0
3/21/2025 9:20	66502	SMAN_T2	7	8	1	0.21	0.33	0.12	0	0	0	0	0	0	0	0
3/21/2025 9:20	60502	NMAN_T2	0	0	0	0	0	0	-0.82	-0.73	0	0	0	0	0	0
3/21/2025 9:20	52402	GRPA_T2	18	29	11	0.64	0.83	0.19	0	0	0	0	0	0	0	0
3/21/2025 9:20	46506	LOHA_T1	3	3	0	4.87	4.23	-0.64	0	0	0	0	0	0	0	0
3/21/2025 9:20	52403	GRPA_T2	8	18	10	0.59	0.49	-0.1	0	0	0	0	0	0	0	0
3/21/2025 9:20	46504	LOHA_T1	2	2	0	0.75	0.35	-0.4	0	0	0	0	0	0	0	0
3/21/2025 9:20	41801	GOCI_T2	1	93	92	0.5	0.26	-0.24	0	0	0	0	0	0	0	0
3/21/2025 9:20	50505	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 9:20	50506	MECH_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 9:20	64202	KINZ_T1	2	3	1	0.15	0.47	0.32	0	0	0	0	0	0	0	0
3/21/2025 9:20	64204	KINZ_T1	2	17	15	0.8	0.29	-0.51	0	0	0	0	0	0	0	0
3/21/2025 9:20	51004	NHAR_T1	2	2	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
3/21/2025 9:20	53802	MBRG_T2	0	0	0	0	0	0	0.88	0.95	0	0	0	0	0	0
3/21/2025 9:21	15101	UPHA_T1	0	0	0	0	0	0	-0.04	0.01	0	0	0	0	0	0
3/21/2025 9:21	66505	SMAN_T2	2	2	0	0.3	0.5	0.2	-0.25	-0.17	1	1	0	900	900	0
3/21/2025 9:21	66504	SMAN_T2	1	1	0	0.2	0.7	0.5	-0.4	-0.33	0	0	0	0	0	0
3/21/2025 9:21	50501	MECH_T1	1	3	2	0.2	0.23	0.03	-0.59	-0.49	0	0	0	0	0	0
3/21/2025 9:21	60501	NMAN_T2	48	51	3	0.23	0.26	0.03	0	0	0	0	0	0	0	0
3/21/2025 9:21	55002	NEWP_T1	9	11	2	0.98	0.98	0	-0.46	-0.42	0	0	0	0	0	0
3/21/2025 9:21	59402	RFLD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 9:21	15102	UPHA_T1	1	1	0	0.8	1.3	0.5	0	0	0	0	0	0	0	0
3/21/2025 9:21	50505	MECH_T1	0	1	1	0	0.1	0.1	-0.86	-0.86	0	0	0	0	0	0
3/21/2025 9:21	51002	NHAR_T1	4	1	-3	0.45	1.4	0.95	0	0	0	0	0	0	0	0
3/21/2025 9:21	50506	MECH_T1	0	1	1	0	0.1	0.1	0.32	0.28	0	0	0	0	0	0
3/21/2025 9:21	50502	MECH_T1	5	5	0	1.52	1.68	0.16	-0.77	-0.79	1	1	0	900	900	0
3/21/2025 9:21	55001	NEWP_T1	1	2	1	1	0.65	-0.35	0	0	0	0	0	0	0	0
3/21/2025 9:21	53802	MBRG_T2	0	0	0	0	0	0	0.88	0.95	0	0	0	0	0	0
3/21/2025 9:21	50504	MECH_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 9:21	60502	NMAN_T2	0	0	0	0	0	0	-0.73	-0.95	0	0	0	0	0	0
3/21/2025 9:21	51004	NHAR_T1	2	2	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
3/21/2025 9:21	65004	NEFF_T2	0	1	1	0	0.2	0.2	-0.51	-0.5	0	0	0	0	0	0
3/21/2025 9:21	51003	NHAR_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
3/21/2025 9:21	65005	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 9:21	66502	SMAN_T2	7	8	1	0.21	0.33	0.12	0	0	0	0	0	0	0	0
3/21/2025 9:22	24204	PROV_T3	1	1	0	5.8	5.7	-0.1	0	0	0	0	0	0	0	0
3/21/2025 9:22	51006	NHAR_T1	0	0	0	0	0	0	-1.79	-1.76	1	1	0	1200	1200	0
3/21/2025 9:22	50502	MECH_T1	5	5	0	1.52	1.68	0.16	-0.79	-0.84	1	0	-1	900	0	-900
3/21/2025 9:22	66505	SMAN_T2	2	2	0	0.3	0.5	0.2	-0.5	-0.34	2	2	0	1800	1800	0
3/21/2025 9:22	65004	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 9:22	65206	PRIN_T4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 9:22	50505	MECH_T1	0	1	1	0	0.1	0.1	-0.86	-0.78	0	0	0	0	0	0
3/21/2025 9:22	51003	NHAR_T1	1	1	0	6.3	6.3	0	0	0	0	0	0	0	0	0
3/21/2025 9:22	65207	PRIN_T4	3	3	0	0.43	2.4	1.97	0	0	0	0	0	0	0	0
3/21/2025 9:22	51004	NHAR_T1	2	2	0	5.5	5.6	0.1	0	0	0	0	0	0	0	0
3/21/2025 9:22	66502	SMAN_T2	7	8	1	0.21	0.33	0.12	0	0	0	0	0	0	0	0
3/21/2025 9:22	50506	MECH_T1	0	1	1	0	0.1	0.1	0.14	0.15	0	0	0	0	0	0
3/21/2025 9:22	66504	SMAN_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/21/2025 9:22	60501	NMAN_T2	48	51	3	0.23	0.26	0.03	0	0	0	0	0	0	0	0
3/21/2025 9:22	50501	MECH_T1	1	3	2	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/21/2025 9:22	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 9:22	24201	PROV_T3	6	5	-1	2.72	5.27	2.55	-1.54	-1.53	1	1	0	1200	1200	0
3/21/2025 9:22	51002	NHAR_T1	4	1	-3	0.45	1.4	0.95	0	0	0	0	0	0	0	0
3/21/2025 9:22	50504	MECH_T1	0	2	2	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 9:22	66503	SMAN_T2	0	0	0	0	0	0	0.37	0.37	0	0	0	0	0	0
3/21/2025 9:22	65005	NEFF_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 9:23	44301	BEAV_T2	1	2	1	0.7	0.6	-0.1	0.59	0.77	1	1	0	600	600	0
3/21/2025 9:23	66504	SMAN_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/21/2025 9:23	66502	SMAN_T2	7	8	1	0.21	0.33	0.12	0	0	0	0	0	0	0	0
3/21/2025 9:23	67605	WARW_T1	26	28	2	0.35	0.39	0.04	-0.76	-0.75	0	0	0	0	0	0
3/21/2025 9:23	46004	BERW_T2	0	0	0	0	0	0	-0.77	-0.78	0	0	0	0	0	0
3/21/2025 9:23	21203	ECAR_T1	0	0	0	0	0	0	-0.25	-0.13	0	0	0	0	0	0
3/21/2025 9:23	66505	SMAN_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/21/2025 9:23	65802	RTWN_T2	0	1	1	0	0.3	0.3	-0.25	-0.25	0	0	0	0	0	0
3/21/2025 9:24	50502	WEIS_T2	0	0	0	0	0	0	0.24	0.24	0	0	0	0	0	0
3/21/2025 9:24	67605	WARW_T1	26	28	2	0.35	0.39	0.04	-0.76	-0.75	0	0	0	0	0	0
3/21/2025 9:24	44301	BEAV_T2	1	2	1	0.7	0.6	-0.1	0.59	0.77	1	1	0	600	600	0
3/21/2025 9:25	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 9:25	66502	SMAN_T2	7	8	1	0.21	0.33	0.12	0	0	0	0	0	0	0	0
3/21/2025 9:25	44802	EDAN_T2	0	0	0	0	0	0	-0.88	-0.93	0	0	0	0	0	0
3/21/2025 9:25	66504	SMAN_T2	1	1	0	0.2	0.7	0.5	-0.4	-0.33	0	0	0	0	0	0
3/21/2025 9:25	67605	WARW_T1	26	28	2	0.35	0.39	0.04	0	0	0	0	0	0	0	0
3/21/2025 9:25	66505	SMAN_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/21/2025 9:25	44801	EDAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/21/2025 9:26	67605	WARW_T1	26	28	2	0.35	0.39	0.04	-0.76	-0.75	0	0	0	0	0	0
3/21/2025 9:26	44801	EDAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/21/2025 9:26	44802	EDAN_T2	0	0	0	0	0	0	-0.88	-0.93	0	0	0	0	0	0
3/21/2025 9:27	63305	GREE_T1	1	4	3	0.1	0.18	0.08	0	0	0	0	0	0	0	0
3/21/2025 9:27	63303	GREE_T1	0	0	0	0	0	0	-0.46	-0.34	2	2	0	1800	1800	0
3/21/2025 9:27	44801	EDAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/21/2025 9:27	44802	EDAN_T2	0	0	0	0	0	0	-1.76	-1.86	0	0	0	0	0	0
3/21/2025 9:28	16103	BING_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 9:28	66504	SMAN_T2	1	1	0	0.2	0.7	0.5	0	0	0	0	0	0	0	0
3/21/2025 9:28	46201	DANV_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/21/2025 9:28	46203	DANV_T2	319	333	14	0.75	0.84	0.09	-0.97	-0.98	0	0	0	0	0	0
3/21/2025 9:28	66505	SMAN_T2	2	2	0	0.3	0.5	0.2	-0.25	-0.17	1	1	0	900	900	0
3/21/2025 9:28	16102	BING_T2	1	8	7	0.5	0.18	-0.32	0	0	0	0	0	0	0	0
3/21/2025 9:28	44802	EDAN_T2	0	0	0	0	0	0	-0.88	-0.93	0	0	0	0	0	0
3/21/2025 9:28	66502	SMAN_T2	7	8	1	0.21	0.33	0.12	0	0	0	0	0	0	0	0
3/21/2025 9:28	44801	EDAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/21/2025 9:29	44802	EDAN_T2	0	0	0	0	0	0	-1.76	-1.86	0	0	0	0	0	0
3/21/2025 9:29	46201	DANV_T2	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/21/2025 9:29	46203	DANV_T2	319	333	14	0.75	0.84	0.09	0	0	0	0	0	0	0	0
3/21/2025 9:29	44801	EDAN_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/21/2025 9:29	46206	DANV_T2	0	0	0	0	0	0	5.15	5.2	3	3	0	3600	3600	0
3/21/2025 9:30	16103	BING_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/21/2025 9:30	46203	DANV_T2	323	347	24	0.82	0.98	0.16	-0.97	-0.98	0	0	0	0	0	0
3/21/2025 9:30	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
3/21/2025 9:30	63803	HEMP_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
3/21/2025 9:30	63802	HEMP_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/21/2025 9:30	46201	DANV_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/21/2025 9:30	53601	DALM_T2	1	1	0	1.3	0.7	-0.6	-0.69	-0.97	1	1	0	900	900	0
3/21/2025 9:30	16102	BING_T2	3	8	5	0.23	0.2	-0.03	0.02	0.01	0	0	0	0	0	0
3/21/2025 9:30	61502	EPET_T1	1	1	0	0.1	0.4	0.3	-1.2	-1.17	0	0	0	0	0	0
3/21/2025 9:30	63801	HEMP_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
3/21/2025 9:31	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
3/21/2025 9:31	63801	HEMP_T1	0	3	3	0	0.13	0.13	0.36	0.13	0	0	0	0	0	0
3/21/2025 9:31	53601	DALM_T2	1	1	0	1.3	0.7	-0.6	-0.69	-0.97	1	1	0	900	900	0
3/21/2025 9:31	63802	HEMP_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/21/2025 9:31	63803	HEMP_T1	0	2	2	0	0.45	0.45	0	0	0	0	0	0	0	0
3/21/2025 9:32	58401	MORO_T1	0	1	1	0	0.2	0.2	-1.05	-1.05	1	1	0	600	600	0
3/21/2025 9:33	63801	HEMP_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
3/21/2025 9:33	63802	HEMP_T1	1	1	0	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/21/2025 9:33	63804	HEMP_T1	1	1	0	6	5.9	-0.1	0	0	0	0	0	0	0	0
3/21/2025 9:33	63803	HEMP_T1	0	2	2	0	0.45	0.45	-0.03	0	0	0	0	0	0	0
3/21/2025 9:37	67605	WARW_T1	26	31	5	0.38	0.43	0.05	-0.75	-0.73	0	0	0	0	0	0
3/21/2025 9:37	58401	MORO_T1	0	1	1	0	0.2	0.2	-1.05	-1.08	1	1	0	600	600	0
3/21/2025 9:38	23403	HONE_T1	0	0	0	0	0	0	-0.75	-0.72	0	0	0	0	0	0
3/21/2025 9:43	41301	FISH_T1	2	3	1	2.2	2.47	0.27	-0.58	-0.56	0	0	0	0	0	0
3/21/2025 9:44	46201	DANV_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/21/2025 9:44	46203	DANV_T2	323	347	24	0.82	0.98	0.16	-0.98	-0.96	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/21/2025 9:44	41301	FISH_T1	2	3	1	2.2	2.47	0.27	-0.29	-0.28	0	0	0	0	0	0
3/21/2025 9:47	64904	MILL_T1	0	0	0	0	0	0	0.48	0.49	0	0	0	0	0	0
3/21/2025 9:48	58102	NEKI_T1	2	2	0	0.5	0.55	0.05	0.11	0.38	0	0	0	0	0	0
3/21/2025 9:48	58101	NEKI_T1	1	2	1	0.4	0.4	0	0	0	0	0	0	0	0	0
3/21/2025 9:48	40101	HUNT_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/21/2025 9:49	53501	EVIL_T2	2	2	0	0.45	0.5	0.05	-0.53	-0.52	1	1	0	600	600	0
3/21/2025 9:50	57201	ROSS_T1	35	69	34	0.29	0.24	-0.05	0	0	0	0	0	0	0	0
3/21/2025 9:50	57205	ROSS_T1	2	5	3	0.85	0.64	-0.21	0.14	0.13	0	0	0	0	0	0
3/21/2025 9:50	57203	ROSS_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 9:51	67402	WAKE_T2	0	0	0	0	0	0	0.39	0.4	1	1	0	600	600	0
3/21/2025 9:51	67401	WAKE_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/21/2025 9:51	43202	MVIL_T2	61	61	0	0.49	0.42	-0.07	-0.58	-0.57	0	0	0	0	0	0
3/21/2025 9:52	67402	WAKE_T2	0	0	0	0	0	0	0.39	0.4	1	1	0	600	600	0
3/21/2025 9:52	67401	WAKE_T2	1	1	0	0.1	0.3	0.2	0	0	0	0	0	0	0	0
3/21/2025 9:56	57401	SPAN_T1	25	28	3	0.31	0.33	0.02	0	0	0	0	0	0	0	0
3/21/2025 9:56	57403	SPAN_T1	50	47	-3	0.35	0.38	0.03	0	0	0	0	0	0	0	0
3/21/2025 10:00	58201	NEWV_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/21/2025 10:00	40505	CRES_T1	1	1	0	0.6	0.5	-0.1	0.45	0.64	0	0	0	0	0	0
3/21/2025 10:00	57203	ROSS_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/21/2025 10:00	46504	LOHA_T1	2	0	-2	0.15	0	-0.15	0	0	0	0	0	0	0	0
3/21/2025 10:00	58202	NEWV_T1	1	5	4	0	0.28	0.28	0	0	0	0	0	0	0	0
3/21/2025 10:00	53901	HALI_T2	1	1	0	0.3	0.7	0.4	-1.03	-1.02	0	0	0	0	0	0
3/21/2025 10:00	46506	LOHA_T1	3	3	0	3.73	3.93	0.2	0	0	0	0	0	0	0	0
3/21/2025 10:00	52403	GRPA_T2	26	42	16	0.6	0.56	-0.04	0	0	0	0	0	0	0	0
3/21/2025 10:00	52402	GRPA_T2	28	78	50	0.73	1.19	0.46	0	0	0	0	0	0	0	0
3/21/2025 10:00	57201	ROSS_T1	51	103	52	0.23	0.27	0.04	-1.35	-1.28	0	0	0	0	0	0
3/21/2025 10:00	43202	MVIL_T2	54	81	27	0.3	0.58	0.28	-0.58	-0.57	0	0	0	0	0	0
3/21/2025 10:00	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 10:00	52401	GRPA_T2	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
3/21/2025 10:00	53903	HALI_T2	2	6	4	1.3	0.68	-0.62	0	0	0	0	0	0	0	0
3/21/2025 10:00	53902	HALI_T2	2	2	0	3.05	3.35	0.3	0	0	0	0	0	0	0	0
3/21/2025 10:00	57205	ROSS_T1	3	10	7	0.7	0.52	-0.18	0.13	0.16	0	0	0	0	0	0
3/21/2025 10:00	46102	MACI_T1	0	0	0	0	0	0	0.62	0.62	0	0	0	0	0	0
3/21/2025 10:00	63501	HEID_TBK1-2	73	134	61	0.28	0.31	0.03	-0.95	-1	5	5	0	4500	4500	0
3/21/2025 10:00	46503	LOHA_T1	0	0	0	0	0	0	-1.24	-1.24	0	0	0	0	0	0
3/21/2025 10:01	22002	BOHE_T1	0	2	2	0	2.1	2.1	0	0	0	0	0	0	0	0
3/21/2025 10:01	22001	BOHE_T1	22	0	-22	0.33	0	-0.33	0	0	0	0	0	0	0	0
3/21/2025 10:01	22003	BOHE_T1	6	2	-4	0.5	0.65	0.15	0	0	0	0	0	0	0	0
3/21/2025 10:02	22003	BOHE_T1	6	2	-4	0.5	0.65	0.15	0	0	0	0	0	0	0	0
3/21/2025 10:02	22002	BOHE_T1	0	2	2	0	2.1	2.1	0	0	0	0	0	0	0	0
3/21/2025 10:02	22001	BOHE_T1	22	0	-22	0.33	0	-0.33	0	0	0	0	0	0	0	0
3/21/2025 10:06	67503	WEWI_T2	2	2	0	0.1	0.1	0	-0.13	-0.14	0	0	0	0	0	0
3/21/2025 10:06	67502	WEWI_T2	11	20	9	0.32	0.38	0.06	0	0	0	0	0	0	0	0
3/21/2025 10:07	43201	MVIL_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 10:07	57203	ROSS_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/21/2025 10:07	57201	ROSS_T1	51	103	52	0.23	0.27	0.04	-1.28	-1.35	0	0	0	0	0	0
3/21/2025 10:07	43202	MVIL_T2	54	81	27	0.3	0.58	0.28	-1.71	-1.68	0	0	0	0	0	0
3/21/2025 10:07	57205	ROSS_T1	3	10	7	0.7	0.52	-0.18	0	0	0	0	0	0	0	0
3/21/2025 10:08	57201	ROSS_T1	51	103	52	0.23	0.27	0.04	-1.28	-1.35	0	0	0	0	0	0
3/21/2025 10:08	67605	WARW_T1	28	49	21	0.44	0.67	0.23	-0.8	-0.85	0	0	0	0	0	0
3/21/2025 10:08	52402	GRPA_T2	28	78	50	0.73	1.19	0.46	0	0	0	0	0	0	0	0
3/21/2025 10:08	67901	WNHO_T2	0	0	0	0	0	0	0.44	0.44	1	1	0	900	900	0
3/21/2025 10:08	64904	MILL_T1	0	0	0	0	0	0	0.52	0.47	0	0	0	0	0	0
3/21/2025 10:08	57205	ROSS_T1	3	10	7	0.7	0.52	-0.18	0	0	0	0	0	0	0	0
3/21/2025 10:08	52403	GRPA_T2	26	42	16	0.6	0.56	-0.04	0	0	0	0	0	0	0	0
3/21/2025 10:08	67604	WARW_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 10:08	52401	GRPA_T2	2	2	0	0.25	0.55	0.3	0	0	0	0	0	0	0	0
3/21/2025 10:08	57203	ROSS_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/21/2025 10:08	67603	WARW_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/21/2025 10:09	57201	ROSS_T1	51	103	52	0.23	0.27	0.04	-1.28	-1.35	0	0	0	0	0	0
3/21/2025 10:09	58101	NEKI_T1	1	3	2	0.5	0.5	0	0	0	0	0	0	0	0	0
3/21/2025 10:09	57203	ROSS_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/21/2025 10:09	57205	ROSS_T1	3	10	7	0.7	0.52	-0.18	0	0	0	0	0	0	0	0
3/21/2025 10:09	58102	NEKI_T1	2	2	0	0.5	0.7	0.2	0.21	0.29	0	0	0	0	0	0
3/21/2025 10:10	67605	WARW_T1	28	49	21	0.44	0.67	0.23	0	0	0	0	0	0	0	0
3/21/2025 10:10	67603	WARW_T1	0	2	2	0	0.4	0.4	0.06	0.11	0	0	0	0	0	0
3/21/2025 10:10	67604	WARW_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 10:11	67603	WARW_T1	0	2	2	0	0.4	0.4	0	0	0	0	0	0	0	0
3/21/2025 10:11	67605	WARW_T1	28	49	21	0.44	0.67	0.23	-0.8	-0.85	0	0	0	0	0	0
3/21/2025 10:11	67604	WARW_T1	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 10:13	10801	CHHI_T1	2	2	0	0.2	0.25	0.05	-2.93	-2.94	4	4	0	3000	3000	0
3/21/2025 10:14	61304	EARL_T1	1	1	0	0.1	0.3	0.2	-0.91	-0.93	1	1	0	600	600	0
3/21/2025 10:14	40502	CRES_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/21/2025 10:14	61302	EARL_T1	1	1	0	1.5	1.8	0.3	0	0	0	0	0	0	0	0
3/21/2025 10:14	40501	CRES_T2	6	11	5	0.28	0.35	0.07	0	0	0	0	0	0	0	0
3/21/2025 10:15	13902	SEID_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/21/2025 10:15	13905	SEID_T1	0	0	0	0	0	0	0.25	0.25	0	0	0	0	0	0
3/21/2025 10:16	53501	EVIL_T2	1	2	1	0.5	1	0.5	-0.53	-0.55	1	1	0	600	600	0
3/21/2025 10:17	46801	HEPB_T2	3	6	3	0.7	0.57	-0.13	0	0	0	0	0	0	0	0
3/21/2025 10:17	53501	EVIL_T2	1	2	1	0.5	1	0.5	0	0	0	0	0	0	0	0
3/21/2025 10:17	46803	HEPB_T2	3	7	4	0.17	0.31	0.14	0	0	0	0	0	0	0	0
3/21/2025 10:17	10401	LIGA_T1	12	30	18	0.36	0.24	-0.12	0	0	0	0	0	0	0	0
3/21/2025 10:18	53501	EVIL_T2	1	2	1	0.5	1	0.5	0	0	0	0	0	0	0	0
3/21/2025 10:18	60801	BUCK_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
3/21/2025 10:18	51201	MTON_T1	9	32	23	0.23	0.28	0.05	0	0	0	0	0	0	0	0
3/21/2025 10:18	46803	HEPB_T2	3	7	4	0.17	0.31	0.14	0.34	0.34	0	0	0	0	0	0
3/21/2025 10:18	46801	HEPB_T2	3	6	3	0.7	0.57	-0.13	0	0	0	0	0	0	0	0
3/21/2025 10:19	64202	KINZ_T1	3	2	-1	0.57	0.35	-0.22	0	0	0	0	0	0	0	0
3/21/2025 10:19	64203	KINZ_T1	0	0	0	0	0	0	0.88	0.86	2	2	0	900	900	0
3/21/2025 10:19	52401	GRPA_T2	2	2	0	0.25	0.75	0.5	0	0	0	0	0	0	0	0
3/21/2025 10:19	64204	KINZ_T1	17	16	-1	0.29	0.44	0.15	0	0	0	0	0	0	0	0
3/21/2025 10:19	51204	MTON_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
3/21/2025 10:19	52403	GRPA_T2	25	48	23	0.68	0.56	-0.12	0	0	0	0	0	0	0	0
3/21/2025 10:19	51202	MTON_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/21/2025 10:19	52402	GRPA_T2	67	98	31	1.11	1.25	0.14	0	0	0	0	0	0	0	0
3/21/2025 10:19	51201	MTON_T1	9	32	23	0.23	0.28	0.05	0.18	0.24	0	0	0	0	0	0
3/21/2025 10:20	52403	GRPA_T2	25	48	23	0.68	0.56	-0.12	0	0	0	0	0	0	0	0
3/21/2025 10:20	47104	MARL_T1	0	0	0	0	0	0	-4.48	-4.5	0	0	0	0	0	0
3/21/2025 10:20	47403	PENS_T1	1	2	1	2.3	1.1	-1.2	0	0	0	0	0	0	0	0
3/21/2025 10:20	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 10:20	51201	MTON_T1	9	32	23	0.23	0.28	0.05	0.06	0.08	0	0	0	0	0	0
3/21/2025 10:20	47402	PENS_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/21/2025 10:20	52402	GRPA_T2	67	98	31	1.11	1.25	0.14	0	0	0	0	0	0	0	0
3/21/2025 10:20	47401	PENS_T1	4	10	6	0.63	0.69	0.06	0	0	0	0	0	0	0	0
3/21/2025 10:20	21206	ECAR_T2	1	1	0	8	7.8	-0.2	0.16	0.23	0	0	0	0	0	0
3/21/2025 10:20	52401	GRPA_T2	2	2	0	0.25	0.75	0.5	0	0	0	0	0	0	0	0
3/21/2025 10:20	21203	ECAR_T1	1	3	2	0.3	0.27	-0.03	-0.23	-0.2	0	0	0	0	0	0
3/21/2025 10:20	47101	MARL_T1	1	0	-1	5.7	0	-5.7	0	0	0	0	0	0	0	0
3/21/2025 10:21	54601	SUMM_T2	5	7	2	0.78	0.74	-0.04	0	0	0	0	0	0	0	0
3/21/2025 10:21	21204	ECAR_T2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 10:21	57201	ROSS_T1	60	112	52	0.23	0.29	0.06	0	0	0	0	0	0	0	0
3/21/2025 10:21	54603	SUMM_T2	0	0	0	0	0	0	0.02	-0.07	1	1	0	900	900	0
3/21/2025 10:21	21206	ECAR_T2	1	1	0	8	7.8	-0.2	0.16	0.23	0	0	0	0	0	0
3/21/2025 10:21	57205	ROSS_T1	4	10	6	0.78	0.65	-0.13	0.16	0.14	0	0	0	0	0	0
3/21/2025 10:21	17802	GILB_T1	1	2	1	0.8	0.65	-0.15	0.12	0.11	0	0	0	0	0	0
3/21/2025 10:21	51201	MTON_T1	9	32	23	0.23	0.28	0.05	0.06	0.08	0	0	0	0	0	0
3/21/2025 10:21	57203	ROSS_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 10:22	24202	PROV_T4	40	42	2	0.17	0.18	0.01	-0.77	-0.77	1	1	0	1200	1200	0
3/21/2025 10:22	60801	BUCK_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
3/21/2025 10:22	24203	PROV_T4	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/21/2025 10:22	51202	MTON_T2	0	1	1	0	0.6	0.6	0.25	0.24	0	0	0	0	0	0
3/21/2025 10:22	57401	SPAN_T1	23	53	30	0.31	0.34	0.03	-1.12	-1.15	1	1	0	600	600	0
3/21/2025 10:22	57403	SPAN_T1	46	115	69	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
3/21/2025 10:22	51204	MTON_T2	0	3	3	0	0.23	0.23	0	0	0	0	0	0	0	0
3/21/2025 10:22	54601	SUMM_T2	5	7	2	0.78	0.74	-0.04	0	0	0	0	0	0	0	0
3/21/2025 10:22	54603	SUMM_T2	0	0	0	0	0	0	-0.07	-0.04	1	1	0	900	900	0
3/21/2025 10:22	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 10:22	65901	SAKR_T2	2	2	0	5.4	5.55	0.15	-1.28	-1.28	1	1	0	900	900	0
3/21/2025 10:23	52401	GRPA_T2	2	2	0	0.25	0.75	0.5	0	0	0	0	0	0	0	0
3/21/2025 10:23	52404	GRPA_T2	0	0	0	0	0	0	0.44	0.48	0	0	0	0	0	0
3/21/2025 10:23	52403	GRPA_T2	25	48	23	0.68	0.56	-0.12	0	0	0	0	0	0	0	0
3/21/2025 10:23	57403	SPAN_T1	46	115	69	0.37	0.36	-0.01	0.08	0.07	0	0	0	0	0	0
3/21/2025 10:23	52402	GRPA_T2	67	98	31	1.11	1.25	0.14	0	0	0	0	0	0	0	0
3/21/2025 10:23	57401	SPAN_T1	23	53	30	0.31	0.34	0.03	0	0	0	0	0	0	0	0
3/21/2025 10:24	67605	WARW_T1	37	49	12	0.52	0.68	0.16	-0.85	-0.8	0	0	0	0	0	0
3/21/2025 10:24	67503	WEWI_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/21/2025 10:24	41901	REED_T1	5	6	1	0.18	0.23	0.05	0	0	0	0	0	0	0	0
3/21/2025 10:24	51201	MTON_T1	9	32	23	0.23	0.28	0.05	0.16	0.16	0	0	0	0	0	0
3/21/2025 10:24	67603	WARW_T1	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
3/21/2025 10:24	67604	WARW_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/21/2025 10:24	57401	SPAN_T1	23	53	30	0.31	0.34	0.03	-2.24	-2.3	2	2	0	1200	1200	0
3/21/2025 10:24	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 10:24	41902	REED_T1	0	1	1	0	0.3	0.3	1.16	1.16	0	0	0	0	0	0
3/21/2025 10:24	51202	MTON_T2	0	1	1	0	0.6	0.6	0.25	0.24	0	0	0	0	0	0
3/21/2025 10:24	51204	MTON_T2	0	3	3	0	0.23	0.23	-0.45	-0.44	1	1	0	600	600	0
3/21/2025 10:24	67502	WEWI_T2	7	21	14	0.46	0.41	-0.05	0	0	0	0	0	0	0	0
3/21/2025 10:24	57403	SPAN_T1	46	115	69	0.37	0.36	-0.01	0.08	0.07	0	0	0	0	0	0
3/21/2025 10:25	67603	WARW_T1	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
3/21/2025 10:25	67604	WARW_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/21/2025 10:25	57401	SPAN_T1	23	53	30	0.31	0.34	0.03	-1.12	-1.15	1	1	0	600	600	0
3/21/2025 10:25	67605	WARW_T1	37	49	12	0.52	0.68	0.16	-0.85	-0.8	0	0	0	0	0	0
3/21/2025 10:25	57403	SPAN_T1	46	115	69	0.37	0.36	-0.01	0.08	0.07	0	0	0	0	0	0
3/21/2025 10:26	67603	WARW_T1	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
3/21/2025 10:26	57403	SPAN_T1	46	115	69	0.37	0.36	-0.01	0	0	0	0	0	0	0	0
3/21/2025 10:26	57401	SPAN_T1	23	53	30	0.31	0.34	0.03	-1.12	-1.15	1	1	0	600	600	0
3/21/2025 10:26	67605	WARW_T1	37	49	12	0.52	0.68	0.16	-0.85	-0.8	0	0	0	0	0	0
3/21/2025 10:26	67601	WARW_T2	0	0	0	0	0	0	-0.46	-0.5	0	0	0	0	0	0
3/21/2025 10:26	67604	WARW_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/21/2025 10:27	67604	WARW_T1	0	3	3	0	0.17	0.17	0	0	0	0	0	0	0	0
3/21/2025 10:27	67603	WARW_T1	1	2	1	0.1	0.55	0.45	0	0	0	0	0	0	0	0
3/21/2025 10:27	10801	CHHI_T1	2	1	-1	0.25	0.5	0.25	-1.47	-1.38	2	2	0	1500	1500	0
3/21/2025 10:27	67605	WARW_T1	37	49	12	0.52	0.68	0.16	-1.7	-1.6	0	0	0	0	0	0
3/21/2025 10:28	54505	ENOL_T2	2	2	0	0.65	0.9	0.25	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/21/2025 10:28	61302	EARL_T1	1	1	0	1.6	2	0.4	0	0	0	0	0	0	0	0
3/21/2025 10:28	45902	AUBU_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/21/2025 10:28	54502	ENOL_T2	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/21/2025 10:28	61304	EARL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/21/2025 10:28	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 10:28	54503	ENOL_T2	0	0	0	0	0	0	-0.45	-0.42	1	1	0	600	600	0
3/21/2025 10:28	61301	EARL_T1	0	0	0	0	0	0	-0.39	-0.41	1	1	0	900	900	0
3/21/2025 10:29	61302	EARL_T1	1	1	0	1.6	2	0.4	0.47	0.43	2	2	0	1800	1800	0
3/21/2025 10:29	61304	EARL_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/21/2025 10:30	54505	ENOL_T2	2	2	0	0.8	0.9	0.1	0	0	0	0	0	0	0	0
3/21/2025 10:30	54504	ENOL_T2	0	1	1	0	0.1	0.1	-1.05	-1.06	1	1	0	600	600	0
3/21/2025 10:30	10805	CHHI_T2	3	7	4	2.8	1.36	-1.44	-0.98	-1.01	1	1	0	600	600	0
3/21/2025 10:30	54502	ENOL_T2	1	1	0	0.8	1.2	0.4	0	0	0	0	0	0	0	0
3/21/2025 10:31	53501	EVIL_T2	2	3	1	0.6	0.83	0.23	-1.11	-1.15	2	2	0	1200	1200	0
3/21/2025 10:32	53501	EVIL_T2	2	3	1	0.6	0.83	0.23	-0.55	-0.58	1	1	0	600	600	0
3/21/2025 10:34	53501	EVIL_T2	2	3	1	0.6	0.83	0.23	-1.11	-1.15	2	2	0	1200	1200	0
3/21/2025 10:34	41002	LAUR_T2	3	7	4	0.87	0.46	-0.41	-1	-0.99	0	0	0	0	0	0
3/21/2025 10:34	41001	LAUR_T2	17	38	21	0.31	0.23	-0.08	0	0	0	0	0	0	0	0
3/21/2025 10:35	13303	ORVI_T1	0	1	1	0	0.1	0.1	0.97	0.97	0	0	0	0	0	0
3/21/2025 10:36	58401	MORO_T1	0	3	3	0	0.13	0.13	-1.1	-1.06	1	1	0	600	600	0
3/21/2025 10:36	58402	MORO_T1	0	0	0	0	0	0	0.01	-0.01	2	2	0	1500	1500	0
3/21/2025 10:38	57403	SPAN_T1	50	118	68	0.41	0.36	-0.05	0.07	0.07	0	0	0	0	0	0
3/21/2025 10:38	57401	SPAN_T1	50	52	2	0.31	0.42	0.11	0	0	0	0	0	0	0	0
3/21/2025 10:39	58401	MORO_T1	0	3	3	0	0.13	0.13	-1.06	-1.06	1	1	0	600	600	0
3/21/2025 10:39	10101	ALLE_T3	1	1	0	5.7	5.7	0	0	0	0	0	0	0	0	0
3/21/2025 10:39	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 10:40	58401	MORO_T1	0	3	3	0	0.13	0.13	-1.06	-1.06	1	1	0	600	600	0
3/21/2025 10:43	52204	DEVO_T2	1	1	0	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/21/2025 10:43	60201	ATGL_T2	1	3	2	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/21/2025 10:43	52202	DEVO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 10:44	45501	DERR_T2	4	5	1	0.48	0.54	0.06	-0.11	-0.15	2	2	0	1800	1800	0
3/21/2025 10:45	45501	DERR_T2	5	5	0	0.38	0.58	0.2	-0.11	-0.15	2	2	0	1800	1800	0
3/21/2025 10:46	45501	DERR_T2	5	5	0	0.38	0.58	0.2	-0.11	-0.15	2	2	0	1800	1800	0
3/21/2025 10:47	54504	ENOL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/21/2025 10:47	60201	ATGL_T2	1	7	6	0.5	0.27	-0.23	-0.04	-0.03	0	0	0	0	0	0
3/21/2025 10:47	54502	ENOL_T2	1	1	0	0.9	1.4	0.5	-2.06	-2.12	1	1	0	600	600	0
3/21/2025 10:47	54505	ENOL_T2	2	2	0	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
3/21/2025 10:47	45501	DERR_T2	5	5	0	0.38	0.58	0.2	-0.11	-0.15	2	2	0	1800	1800	0
3/21/2025 10:48	54502	ENOL_T2	1	1	0	0.9	1.4	0.5	-2.06	-2.12	1	1	0	600	600	0
3/21/2025 10:48	54504	ENOL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/21/2025 10:48	54505	ENOL_T2	2	2	0	0.9	0.85	-0.05	0	0	0	0	0	0	0	0
3/21/2025 10:50	21206	ECAR_T2	1	1	0	7.7	7.4	-0.3	0	0	0	0	0	0	0	0
3/21/2025 10:50	21204	ECAR_T2	1	1	0	0	0	0	-0.55	-0.57	0	0	0	0	0	0
3/21/2025 10:51	57401	SPAN_T1	43	63	20	0.38	0.4	0.02	-1.15	-1.15	1	1	0	600	600	0
3/21/2025 10:51	57203	ROSS_T1	1	1	0	0.2	0.2	0	-0.5	-0.52	0	0	0	0	0	0
3/21/2025 10:51	57201	ROSS_T1	97	100	3	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
3/21/2025 10:51	57205	ROSS_T1	10	10	0	0.62	0.73	0.11	0	0	0	0	0	0	0	0
3/21/2025 10:51	57403	SPAN_T1	115	72	-43	0.36	0.38	0.02	0	0	0	0	0	0	0	0
3/21/2025 10:52	57401	SPAN_T1	43	63	20	0.38	0.4	0.02	-1.15	-1.09	1	1	0	600	600	0
3/21/2025 10:52	14801	TREI_T2	7	9	2	0.51	0.43	-0.08	0.4	0.39	0	0	0	0	0	0
3/21/2025 10:52	40101	HUNT_T2	1	6	5	0.3	0.33	0.03	-1.58	-1.63	0	0	0	0	0	0
3/21/2025 10:52	47401	PENS_T1	10	27	17	0.69	0.43	-0.26	0.79	0.88	0	0	0	0	0	0
3/21/2025 10:52	57403	SPAN_T1	115	72	-43	0.36	0.38	0.02	0	0	0	0	0	0	0	0
3/21/2025 10:52	14802	TREI_T2	3	7	4	0.17	0.21	0.04	0	0	0	0	0	0	0	0
3/21/2025 10:52	52102	MEIS_T1	1	5	4	1.1	0.38	-0.72	0	0	2	2	0	900	900	0
3/21/2025 10:52	41901	REED_T1	6	8	2	0.23	0.26	0.03	0	0	0	0	0	0	0	0
3/21/2025 10:52	47402	PENS_T1	1	3	2	0.5	0.27	-0.23	0	0	0	0	0	0	0	0
3/21/2025 10:52	41902	REED_T1	1	4	3	0.3	0.35	0.05	3.27	3.54	0	0	0	0	0	0
3/21/2025 10:52	47403	PENS_T1	2	5	3	1.1	0.72	-0.38	0	0	0	0	0	0	0	0
3/21/2025 10:53	57401	SPAN_T1	43	63	20	0.38	0.4	0.02	0	0	0	0	0	0	0	0
3/21/2025 10:53	57403	SPAN_T1	115	72	-43	0.36	0.38	0.02	0	0	0	0	0	0	0	0
3/21/2025 10:55	57401	SPAN_T1	43	63	20	0.38	0.4	0.02	-2.3	-2.18	2	2	0	1200	1200	0
3/21/2025 10:55	57205	ROSS_T1	10	10	0	0.62	0.73	0.11	0	0	0	0	0	0	0	0
3/21/2025 10:55	57201	ROSS_T1	97	100	3	0.31	0.3	-0.01	0	0	0	0	0	0	0	0
3/21/2025 10:55	57403	SPAN_T1	115	72	-43	0.36	0.38	0.02	0	0	0	0	0	0	0	0
3/21/2025 10:55	57203	ROSS_T1	1	1	0	0.2	0.2	0	-0.26	0.42	0	0	0	0	0	0
3/21/2025 10:56	57403	SPAN_T1	115	72	-43	0.36	0.38	0.02	0	0	0	0	0	0	0	0
3/21/2025 10:56	57401	SPAN_T1	43	63	20	0.38	0.4	0.02	-1.15	-1.09	1	1	0	600	600	0
3/21/2025 10:57	40501	CRES_T2	11	9	-2	0.28	0.36	0.08	0	0	0	0	0	0	0	0
3/21/2025 10:57	57401	SPAN_T1	43	63	20	0.38	0.4	0.02	-2.3	-2.18	2	2	0	1200	1200	0
3/21/2025 10:57	57403	SPAN_T1	115	72	-43	0.36	0.38	0.02	0	0	0	0	0	0	0	0
3/21/2025 10:57	40502	CRES_T2	1	7	6	0.4	0.23	-0.17	0	0	0	0	0	0	0	0
3/21/2025 10:58	24105	EHAZ_T1	4	5	1	5.83	6.13	0.3	0	0	0	0	0	0	0	0
3/21/2025 10:58	24102	EHAZ_T1	7	4	-3	0.64	0.6	-0.04	0	0	0	0	0	0	0	0
3/21/2025 10:58	24104	EHAZ_T1	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 10:58	24103	EHAZ_T1	0	2	2	0	0	0	-2.19	-2.2	0	0	0	0	0	0
3/21/2025 10:58	40505	CRES_T1	1	1	0	0.6	0.8	0.2	0.3	0.3	0	0	0	0	0	0
3/21/2025 10:58	24101	EHAZ_T1	3	5	2	0.33	0.3	-0.03	0	0	0	0	0	0	0	0
3/21/2025 10:58	40504	CRES_T1	1	1	0	0.5	0.1	-0.4	0	0	0	0	0	0	0	0
3/21/2025 11:00	15702	TANN_T2	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
3/21/2025 11:00	15703	TANN_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
3/21/2025 11:01	40502	CRES_T2	1	7	6	0.5	0.23	-0.27	0.05	0.05	0	0	0	0	0	0
3/21/2025 11:01	40501	CRES_T2	6	5	-1	0.35	0.48	0.13	0	0	0	0	0	0	0	0
3/21/2025 11:01	47203	FAXO_T2	0	0	0	0	0	0	-0.4	-0.44	0	0	0	0	0	0
3/21/2025 11:02	15703	TANN_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
3/21/2025 11:02	15702	TANN_T2	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
3/21/2025 11:03	22601	KIMB_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/21/2025 11:03	22602	KIMB_T1	0	0	0	0	0	0	0.26	0.16	0	0	0	0	0	0
3/21/2025 11:03	22003	BOHE_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
3/21/2025 11:03	15703	TANN_T2	1	1	0	6.1	6.2	0.1	0	0	0	0	0	0	0	0
3/21/2025 11:03	22002	BOHE_T1	0	0	0	0	0	0	0.12	0.12	0	0	0	0	0	0
3/21/2025 11:03	15702	TANN_T2	0	0	0	0	0	0	-0.37	-0.35	0	0	0	0	0	0
3/21/2025 11:06	41002	LAUR_T2	4	36	32	0.73	0.28	-0.45	0	0	0	0	0	0	0	0
3/21/2025 11:06	41001	LAUR_T2	34	80	46	0.24	0.39	0.15	0	0	0	0	0	0	0	0
3/21/2025 11:08	40303	TAMA_T3	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/21/2025 11:08	67201	TEHI_T1	0	1	1	0	0.2	0.2	-0.24	-0.42	3	3	0	2400	2400	0
3/21/2025 11:08	40302	TAMA_T3	11	13	2	0.37	0.4	0.03	0	0	0	0	0	0	0	0
3/21/2025 11:08	40301	TAMA_T3	6	6	0	0.98	1.18	0.2	1.04	1.07	2	2	0	1800	1800	0
3/21/2025 11:08	67203	TEHI_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 11:11	41901	REED_T1	6	8	2	0.23	0.25	0.02	0	0	0	0	0	0	0	0
3/21/2025 11:11	41902	REED_T1	4	4	0	0.25	0.25	0	0	0	0	0	0	0	0	0
3/21/2025 11:16	61304	EARL_T1	2	5	3	0.35	0.44	0.09	0	0	0	0	0	0	0	0
3/21/2025 11:16	61302	EARL_T1	1	4	3	1.7	0.75	-0.95	0.24	0.28	2	2	0	1800	1800	0
3/21/2025 11:17	54502	ENOL_T2	1	4	3	1.4	0.43	-0.97	0	0	0	0	0	0	0	0
3/21/2025 11:17	54505	ENOL_T2	1	2	1	0.8	0.5	-0.3	-1.28	-1.28	1	1	0	600	600	0
3/21/2025 11:17	54504	ENOL_T2	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
3/21/2025 11:19	54504	ENOL_T2	1	2	1	0.2	0.55	0.35	0	0	0	0	0	0	0	0
3/21/2025 11:19	54505	ENOL_T2	1	2	1	0.8	0.5	-0.3	-1.28	-1.28	1	1	0	600	600	0
3/21/2025 11:19	54502	ENOL_T2	1	4	3	1.4	0.43	-0.97	0	0	0	0	0	0	0	0
3/21/2025 11:20	47402	PENS_T1	2	3	1	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/21/2025 11:20	64503	LAVI_T1	1	2	1	0.6	0.75	0.15	0.37	0.4	1	1	0	1200	1200	0
3/21/2025 11:20	64501	LAVI_T1	13	124	111	0.29	0.36	0.07	0	0	0	0	0	0	0	0
3/21/2025 11:20	47401	PENS_T1	23	17	-6	0.48	0.51	0.03	0.88	0.81	0	0	0	0	0	0
3/21/2025 11:20	64502	LAVI_T1	13	191	178	0.29	0.24	-0.05	0	0	0	0	0	0	0	0
3/21/2025 11:20	47403	PENS_T1	5	6	1	0.66	0.7	0.04	0	0	0	0	0	0	0	0
3/21/2025 11:21	64502	LAVI_T1	13	191	178	0.29	0.24	-0.05	0	0	0	0	0	0	0	0
3/21/2025 11:21	66402	ROBE_T1	27	109	82	0.17	0.34	0.17	0	0	2	2	0	1500	1500	0
3/21/2025 11:21	66401	ROBE_T1	48	287	239	0.21	0.38	0.17	0	0	0	0	0	0	0	0
3/21/2025 11:21	64503	LAVI_T1	1	2	1	0.6	0.75	0.15	0.4	0.07	1	1	0	1200	1200	0
3/21/2025 11:21	64501	LAVI_T1	13	124	111	0.29	0.36	0.07	0	0	0	0	0	0	0	0
3/21/2025 11:22	64502	LAVI_T1	13	191	178	0.29	0.24	-0.05	0	0	0	0	0	0	0	0
3/21/2025 11:22	14801	TREI_T2	5	7	2	0.64	0.59	-0.05	0	0	0	0	0	0	0	0
3/21/2025 11:22	14802	TREI_T2	6	7	1	0.17	0.27	0.1	0.39	0.4	0	0	0	0	0	0
3/21/2025 11:22	64501	LAVI_T1	13	124	111	0.29	0.36	0.07	-3.5	-3.46	0	0	0	0	0	0
3/21/2025 11:22	55002	NEWP_T1	13	16	3	0.68	0.86	0.18	0	0	0	0	0	0	0	0
3/21/2025 11:22	55001	NEWP_T1	4	5	1	0.83	0.6	-0.23	-0.28	-0.23	0	0	0	0	0	0
3/21/2025 11:22	64503	LAVI_T1	1	2	1	0.6	0.75	0.15	1.2	0.21	3	3	0	3600	3600	0
3/21/2025 11:23	47104	MARI_T1	0	0	0	0	0	0	-2.23	-2.25	0	0	0	0	0	0
3/21/2025 11:23	40303	TAMA_T3	1	1	0	0.1	0.2	0.1	2.24	2.24	0	0	0	0	0	0
3/21/2025 11:23	14801	TREI_T2	5	7	2	0.64	0.59	-0.05	0.39	0.36	0	0	0	0	0	0
3/21/2025 11:23	40302	TAMA_T3	13	13	0	0.39	0.43	0.04	0	0	0	0	0	0	0	0
3/21/2025 11:23	14802	TREI_T2	6	7	1	0.17	0.27	0.1	0	0	0	0	0	0	0	0
3/21/2025 11:23	60301	TWVA_T2	0	0	0	0	0	0	-1.74	-2.44	2	2	0	1800	1800	0
3/21/2025 11:23	47101	MARI_T1	0	1	1	0	0.2	0.2	-1.17	-1.16	0	0	0	0	0	0
3/21/2025 11:23	40301	TAMA_T3	6	6	0	1.16	1.04	-0.12	0	0	0	0	0	0	0	0
3/21/2025 11:24	55001	NEWP_T1	4	5	1	0.83	0.6	-0.23	0	0	0	0	0	0	0	0
3/21/2025 11:24	47401	PENS_T1	23	17	-6	0.48	0.51	0.03	1.63	1.76	0	0	0	0	0	0
3/21/2025 11:24	47402	PENS_T1	2	3	1	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/21/2025 11:24	47403	PENS_T1	5	6	1	0.66	0.7	0.04	0	0	0	0	0	0	0	0
3/21/2025 11:24	64502	LAVI_T1	13	191	178	0.29	0.24	-0.05	0	0	0	0	0	0	0	0
3/21/2025 11:24	55002	NEWP_T1	13	16	3	0.68	0.86	0.18	-0.23	-0.23	0	0	0	0	0	0
3/21/2025 11:24	67901	WNHO_T2	0	0	0	0	0	0	0.44	0.45	1	1	0	900	900	0
3/21/2025 11:24	64503	LAVI_T1	1	2	1	0.6	0.75	0.15	0.4	0.07	1	1	0	1200	1200	0
3/21/2025 11:24	64501	LAVI_T1	13	124	111	0.29	0.36	0.07	0	0	0	0	0	0	0	0
3/21/2025 11:25	47401	PENS_T1	23	17	-6	0.48	0.51	0.03	0.81	0.88	0	0	0	0	0	0
3/21/2025 11:25	55001	NEWP_T1	4	5	1	0.83	0.6	-0.23	-0.28	-0.23	0	0	0	0	0	0
3/21/2025 11:25	55002	NEWP_T1	13	16	3	0.68	0.86	0.18	0	0	0	0	0	0	0	0
3/21/2025 11:25	47403	PENS_T1	5	6	1	0.66	0.7	0.04	0	0	0	0	0	0	0	0
3/21/2025 11:25	47402	PENS_T1	2	3	1	0.3	0.37	0.07	0	0	0	0	0	0	0	0
3/21/2025 11:27	41602	CLEV_T1	2	3	1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
3/21/2025 11:27	55002	NEWP_T1	13	16	3	0.68	0.86	0.18	-0.23	-0.23	0	0	0	0	0	0
3/21/2025 11:27	55001	NEWP_T1	4	5	1	0.83	0.6	-0.23	0	0	0	0	0	0	0	0
3/21/2025 11:27	41601	CLEV_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/21/2025 11:28	41602	CLEV_T1	2	3	1	0.45	0.5	0.05	0	0	0	0	0	0	0	0
3/21/2025 11:28	41601	CLEV_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/21/2025 11:28	44801	EDAN_T2	3	4	1	0.53	0.58	0.05	-0.9	-0.91	0	0	0	0	0	0
3/21/2025 11:29	64901	MILL_T1	0	5	5	0	0.14	0.14	0	0	0	0	0	0	0	0
3/21/2025 11:29	64904	MILL_T1	0	0	0	0	0	0	0.53	0.52	0	0	0	0	0	0
3/21/2025 11:29	11205	ELHE_T1	0	0	0	0	0	0	-0.69	-0.84	1	1	0	1200	1200	0
3/21/2025 11:29	11203	ELHE_T1	1	2	1	3.7	0	-3.7	0	0	0	0	0	0	0	0
3/21/2025 11:30	14801	TREI_T2	6	11	5	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
3/21/2025 11:30	14802	TREI_T2	3	10	7	0.27	0.27	0	0.39	0.4	0	0	0	0	0	0
3/21/2025 11:30	45501	DERR_T2	4	8	4	0.45	0.53	0.08	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/21/2025 11:30	45502	DERR_T2	0	0	0	0	0	0	0.19	0.18	0	0	0	0	0	0
3/21/2025 11:31	41601	CLEV_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/21/2025 11:31	47201	FAXO_T2	0	0	0	0	0	0	-2.33	-2.33	1	1	0	1200	1200	0
3/21/2025 11:31	41602	CLEV_T1	3	4	1	0.33	0.58	0.25	0	0	0	0	0	0	0	0
3/21/2025 11:31	61304	EARL_T1	3	5	2	0.37	0.44	0.07	0	0	0	0	0	0	0	0
3/21/2025 11:31	61302	EARL_T1	3	4	1	0.77	0.8	0.03	0.28	0.19	2	2	0	1800	1800	0
3/21/2025 11:32	11202	ELHE_T2	0	0	0	0	0	0	0.38	0.39	1	1	0	1200	1200	0
3/21/2025 11:32	53903	HALI_T2	8	10	2	0.71	0.85	0.14	-0.11	-0.12	0	0	0	0	0	0
3/21/2025 11:32	61803	EELI_T2	0	1	1	0	0.6	0.6	0.94	0.96	0	0	0	0	0	0
3/21/2025 11:32	53902	HALI_T2	3	5	2	2.77	1.82	-0.95	0	0	0	0	0	0	0	0
3/21/2025 11:32	53901	HALI_T2	2	3	1	0.45	0.53	0.08	-0.99	-1.01	0	0	0	0	0	0
3/21/2025 11:32	61801	EELI_T2	14	45	31	0.49	0.41	-0.08	0	0	0	0	0	0	0	0
3/21/2025 11:34	53902	HALI_T2	3	5	2	2.77	1.82	-0.95	-0.9	-0.9	0	0	0	0	0	0
3/21/2025 11:34	53901	HALI_T2	2	3	1	0.45	0.53	0.08	0	0	0	0	0	0	0	0
3/21/2025 11:34	53903	HALI_T2	8	10	2	0.71	0.85	0.14	0	0	0	0	0	0	0	0
3/21/2025 11:35	54506	ENOL_T2	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
3/21/2025 11:35	54505	ENOL_T2	1	2	1	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
3/21/2025 11:35	54504	ENOL_T2	2	2	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/21/2025 11:35	54502	ENOL_T2	3	4	1	0.5	0.45	-0.05	0	0	0	0	0	0	0	0
3/21/2025 11:35	22003	BOHE_T1	1	1	0	0.1	0.5	0.4	0	0	0	0	0	0	0	0
3/21/2025 11:35	22002	BOHE_T1	0	0	0	0	0	0	0.13	0.07	0	0	0	0	0	0
3/21/2025 11:35	55507	HERS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 11:36	63602	LETO_T1	11	12	1	0.3	0.33	0.03	-0.48	-0.61	0	0	0	0	0	0
3/21/2025 11:36	63501	HEID_TBK1-2	147	114	-33	0.39	0.34	-0.05	-0.27	0.62	1	1	0	900	900	0
3/21/2025 11:36	55508	HERS_T2	107	12	-95	0.34	0.42	0.08	0	0	0	0	0	0	0	0
3/21/2025 11:36	63601	LETO_T1	3	3	0	0.3	0.33	0.03	0	0	0	0	0	0	0	0
3/21/2025 11:37	63501	HEID_TBK1-2	147	114	-33	0.39	0.34	-0.05	0	0	0	0	0	0	0	0
3/21/2025 11:37	20602	GRWO_T2	48	48	0	3.3	3.31	0.01	0	0	0	0	0	0	0	0
3/21/2025 11:37	40101	HUNT_T2	4	2	-2	0.43	0.3	-0.13	-1.74	-1.74	0	0	0	0	0	0
3/21/2025 11:37	20601	GRWO_T2	6	7	1	3.42	3.43	0.01	0	0	0	0	0	0	0	0
3/21/2025 11:37	55508	HERS_T2	107	12	-95	0.34	0.42	0.08	0	0	1	0	-1	1200	0	-1200
3/21/2025 11:37	20603	GRWO_T2	61	59	-2	4.81	5.03	0.22	0.44	0.41	0	0	0	0	0	0
3/21/2025 11:37	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 11:38	48302	ORWI_T2	2	2	0	8.85	8.95	0.1	0	0	0	0	0	0	0	0
3/21/2025 11:38	63501	HEID_TBK1-2	147	114	-33	0.39	0.34	-0.05	-0.27	0.62	1	0	-1	900	0	-900
3/21/2025 11:38	47104	MARL_T1	0	0	0	0	0	0	-2.25	-2.22	0	0	0	0	0	0
3/21/2025 11:38	55508	HERS_T2	107	12	-95	0.34	0.42	0.08	0	0	1	0	-1	1200	0	-1200
3/21/2025 11:38	14801	TREI_T2	6	11	5	0.55	0.5	-0.05	0	0	0	0	0	0	0	0
3/21/2025 11:38	40101	HUNT_T2	4	2	-2	0.43	0.3	-0.13	0	0	0	0	0	0	0	0
3/21/2025 11:38	20601	GRWO_T2	6	7	1	3.42	3.43	0.01	0.71	0.66	0	0	0	0	0	0
3/21/2025 11:38	48303	ORWI_T2	2	3	1	0.55	0.63	0.08	0.5	0.47	0	0	0	0	0	0
3/21/2025 11:38	20602	GRWO_T2	48	48	0	3.3	3.31	0.01	0	0	0	0	0	0	0	0
3/21/2025 11:38	14802	TREI_T2	3	10	7	0.27	0.27	0	0.4	0.38	0	0	0	0	0	0
3/21/2025 11:38	20603	GRWO_T2	61	59	-2	4.81	5.03	0.22	0	0	0	0	0	0	0	0
3/21/2025 11:38	47101	MARL_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/21/2025 11:39	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 11:39	20401	ASHF_T2	1	4	3	0.6	0.33	-0.27	0.34	0.36	0	0	0	0	0	0
3/21/2025 11:39	40101	HUNT_T2	4	2	-2	0.43	0.3	-0.13	-1.74	-1.74	0	0	0	0	0	0
3/21/2025 11:39	20403	ASHF_T2	23	34	11	0.46	0.6	0.14	-0.03	0	0	0	0	0	0	0
3/21/2025 11:40	23404	HONE_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 11:40	23403	HONE_T1	16	28	12	0.21	0.21	0	0	0	0	0	0	0	0	0
3/21/2025 11:40	55002	NEWP_T1	13	43	30	0.81	0.46	-0.35	0	0	0	0	0	0	0	0
3/21/2025 11:40	67201	TEHI_T1	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/21/2025 11:40	67203	TEHI_T1	0	0	0	0	0	0	2.23	2.16	3	3	0	2100	2100	0
3/21/2025 11:40	40101	HUNT_T2	4	2	-2	0.43	0.3	-0.13	-1.74	-1.74	0	0	0	0	0	0
3/21/2025 11:40	55001	NEWP_T1	4	12	8	0.6	0.51	-0.09	-0.23	-0.26	0	0	0	0	0	0
3/21/2025 11:41	55002	NEWP_T1	13	43	30	0.81	0.46	-0.35	-0.46	-0.48	0	0	0	0	0	0
3/21/2025 11:41	46504	LOHA_T1	0	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0
3/21/2025 11:41	55001	NEWP_T1	4	12	8	0.6	0.51	-0.09	0	0	0	0	0	0	0	0
3/21/2025 11:41	46506	LOHA_T1	3	9	6	4.77	1.71	-3.06	0	0	0	0	0	0	0	0
3/21/2025 11:41	46503	LOHA_T1	1	1	0	0.4	0.3	-0.1	-0.63	-0.63	0	0	0	0	0	0
3/21/2025 11:42	63602	LETO_T1	11	12	1	0.3	0.33	0.03	-0.48	-0.61	0	0	0	0	0	0
3/21/2025 11:42	55001	NEWP_T1	4	12	8	0.6	0.51	-0.09	0	0	0	0	0	0	0	0
3/21/2025 11:42	63601	LETO_T1	3	3	0	0.3	0.33	0.03	0	0	0	0	0	0	0	0
3/21/2025 11:42	55002	NEWP_T1	13	43	30	0.81	0.46	-0.35	-0.23	-0.24	0	0	0	0	0	0
3/21/2025 11:43	13905	SEID_T1	0	2	2	0	0.5	0.5	0	0	0	0	0	0	0	0
3/21/2025 11:43	13902	SEID_T1	1	1	0	1.2	1.6	0.4	0	0	0	0	0	0	0	0
3/21/2025 11:44	20403	ASHF_T2	23	34	11	0.46	0.6	0.14	0	0	0	0	0	0	0	0
3/21/2025 11:44	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 11:44	24103	EHAZ_T1	3	0	-3	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/21/2025 11:44	24102	EHAZ_T1	7	4	-3	0.79	0.33	-0.46	0	0	0	0	0	0	0	0
3/21/2025 11:44	24101	EHAZ_T1	10	6	-4	0.4	0.2	-0.2	0	0	0	0	0	0	0	0
3/21/2025 11:44	20401	ASHF_T2	1	4	3	0.6	0.33	-0.27	0	0	0	0	0	0	0	0
3/21/2025 11:44	24105	EHAZ_T1	5	4	-1	4.8	6.3	1.5	0	0	0	0	0	0	0	0
3/21/2025 11:44	24104	EHAZ_T1	0	1	1	0	0.3	0.3	-2.19	-2.2	1	1	0	1200	1200	0
3/21/2025 11:45	27503	WEIS_T2	3	4	1	0.53	0.45	-0.08	0	0	0	0	0	0	0	0
3/21/2025 11:45	27502	WEIS_T2	2	2	0	0.5	0.6	0.1	0.24	0.32	0	0	0	0	0	0
3/21/2025 11:45	55003	NEWP_T2	12	17	5	0.33	0.46	0.13	-0.03	-0.05	0	0	0	0	0	0
3/21/2025 11:46	61803	EELI_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/21/2025 11:46	61801	EELI_T2	43	39	-4	0.41	0.37	-0.04	-0.25	-0.25	0	0	0	0	0	0
3/21/2025 11:48	62605	ENGL_T1	6	7	1	0.35	0.33	-0.02	0	0	0	0	0	0	0	0
3/21/2025 11:48	62602	ENGL_T1	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/21/2025 11:48	61304	EARL_T1	5	3	-2	0.44	0.33	-0.11	-0.92	-0.93	1	0	-1	600	0	-600
3/21/2025 11:48	61302	EARL_T1	4	3	-1	0.68	0.97	0.29	0	0	0	0	0	0	0	0
3/21/2025 11:48	62607	ENGL_T1	3	5	2	0.33	0.28	-0.05	-0.83	-0.82	0	0	0	0	0	0
3/21/2025 11:50	40101	HUNT_T2	2	1	-1	0.3	0.3	0	-1.74	-1.74	0	0	0	0	0	0
3/21/2025 11:51	20401	ASHF_T2	1	4	3	0.7	0.33	-0.37	0	0	0	0	0	0	0	0
3/21/2025 11:51	20402	ASHF_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 11:51	20403	ASHF_T2	19	34	15	0.51	0.61	0.1	-0.03	0	0	0	0	0	0	0
3/21/2025 11:52	63802	HEMP_T1	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/21/2025 11:52	63803	HEMP_T1	8	2	-6	0.44	0.45	0.01	0	0	0	0	0	0	0	0
3/21/2025 11:52	63804	HEMP_T1	2	1	-1	3.05	6.3	3.25	0.81	0.8	0	0	0	0	0	0
3/21/2025 11:52	63801	HEMP_T1	10	2	-8	0.36	0.55	0.19	0	0	0	0	0	0	0	0
3/21/2025 11:53	64204	KINZ_T1	21	32	11	0.44	0.52	0.08	0	0	0	0	0	0	0	0
3/21/2025 11:53	64203	KINZ_T1	0	0	0	0	0	0	1.48	1.32	1	1	0	600	600	0
3/21/2025 11:53	64202	KINZ_T1	2	4	2	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/21/2025 11:54	63803	HEMP_T1	8	2	-6	0.44	0.45	0.01	0	0	0	0	0	0	0	0
3/21/2025 11:54	60201	ATGL_T2	37	38	1	0.22	0.27	0.05	-0.06	-0.18	0	0	0	0	0	0
3/21/2025 11:54	58401	MORO_T1	2	6	4	0.15	0.25	0.1	-2.14	-2.18	2	2	0	1200	1200	0
3/21/2025 11:54	63801	HEMP_T1	10	2	-8	0.36	0.55	0.19	0	0	0	0	0	0	0	0
3/21/2025 11:54	24201	PROV_T3	3	3	0	5.7	5.4	-0.3	-1.45	-1.45	1	1	0	1200	1200	0
3/21/2025 11:54	14802	TREI_T2	7	7	0	0.24	0.27	0.03	0.38	0.42	0	0	0	0	0	0
3/21/2025 11:54	61101	BERK_T5	3	3	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/21/2025 11:54	52401	GRPA_T2	5	4	-1	0.26	0.45	0.19	-1.02	-1.15	0	0	0	0	0	0
3/21/2025 11:54	52402	GRPA_T2	104	195	91	1.38	3.52	2.14	0	0	0	0	0	0	0	0
3/21/2025 11:54	63802	HEMP_T1	3	0	-3	0.3	0	-0.3	0	0	0	0	0	0	0	0
3/21/2025 11:54	24204	PROV_T3	1	1	0	5.9	5.7	-0.2	0	0	0	0	0	0	0	0
3/21/2025 11:54	47104	MARL_T1	0	0	0	0	0	0	-2.22	-2.24	0	0	0	0	0	0
3/21/2025 11:54	63804	HEMP_T1	2	1	-1	3.05	6.3	3.25	0.81	0.8	0	0	0	0	0	0
3/21/2025 11:54	52403	GRPA_T2	90	111	21	0.48	0.51	0.03	0	0	0	0	0	0	0	0
3/21/2025 11:54	14801	TREI_T2	6	11	5	0.62	0.43	-0.19	0	0	0	0	0	0	0	0
3/21/2025 11:54	61102	BERK_T5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 11:54	52404	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/21/2025 11:54	47101	MARL_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/21/2025 11:54	61103	BERK_T5	1	3	2	0.3	0.13	-0.17	0	0	0	0	0	0	0	0
3/21/2025 11:55	14802	TREI_T2	7	7	0	0.24	0.27	0.03	0.38	0.42	0	0	0	0	0	0
3/21/2025 11:55	60701	BREC_T1	1	0	-1	0.2	0	-0.2	-0.18	-0.48	4	4	0	2400	2400	0
3/21/2025 11:55	52402	GRPA_T2	104	195	91	1.38	3.52	2.14	0	0	0	0	0	0	0	0
3/21/2025 11:55	52404	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/21/2025 11:55	14801	TREI_T2	6	11	5	0.62	0.43	-0.19	0	0	0	0	0	0	0	0
3/21/2025 11:55	46004	BERW_T2	1	2	1	0.5	0.6	0.1	-1.57	-1.57	0	0	0	0	0	0
3/21/2025 11:55	52403	GRPA_T2	90	111	21	0.48	0.51	0.03	0	0	0	0	0	0	0	0
3/21/2025 11:55	52401	GRPA_T2	5	4	-1	0.26	0.45	0.19	0	0	0	0	0	0	0	0
3/21/2025 11:56	52403	GRPA_T2	90	111	21	0.48	0.51	0.03	0	0	0	0	0	0	0	0
3/21/2025 11:56	10205	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 11:56	10101	ALLE_T3	1	1	0	5.8	5.5	-0.3	0	0	0	0	0	0	0	0
3/21/2025 11:56	14801	TREI_T2	6	11	5	0.62	0.43	-0.19	0.38	0.36	0	0	0	0	0	0
3/21/2025 11:56	52502	PROG_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/21/2025 11:56	52402	GRPA_T2	104	195	91	1.38	3.52	2.14	0	0	0	0	0	0	0	0
3/21/2025 11:56	10103	ALLE_T3	1	0	-1	7.9	0	-7.9	0	0	0	0	0	0	0	0
3/21/2025 11:56	48303	ORWI_T2	3	3	0	0.53	0.6	0.07	0.47	0.51	0	0	0	0	0	0
3/21/2025 11:56	14802	TREI_T2	7	7	0	0.24	0.27	0.03	0	0	0	0	0	0	0	0
3/21/2025 11:56	52503	PROG_T2	3	3	0	0.23	0.43	0.2	0	0	0	0	0	0	0	0
3/21/2025 11:56	10109	ALLE_T3	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 11:56	52404	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/21/2025 11:56	60201	ATGL_T2	37	38	1	0.22	0.27	0.05	-0.06	-0.18	0	0	0	0	0	0
3/21/2025 11:56	52401	GRPA_T2	5	4	-1	0.26	0.45	0.19	0	0	0	0	0	0	0	0
3/21/2025 11:56	48302	ORWI_T2	2	2	0	8.9	9.1	0.2	0	0	0	0	0	0	0	0
3/21/2025 11:57	22601	KIMB_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
3/21/2025 11:57	22602	KIMB_T1	0	3	3	0	0.17	0.17	0.1	0.06	0	0	0	0	0	0
3/21/2025 11:58	52403	GRPA_T2	90	111	21	0.48	0.51	0.03	0	0	0	0	0	0	0	0
3/21/2025 11:58	52401	GRPA_T2	5	4	-1	0.26	0.45	0.19	0	0	0	0	0	0	0	0
3/21/2025 11:58	14802	TREI_T2	7	7	0	0.24	0.27	0.03	0.38	0.42	0	0	0	0	0	0
3/21/2025 11:58	52404	GRPA_T2	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/21/2025 11:58	52402	GRPA_T2	104	195	91	1.38	3.52	2.14	0	0	0	0	0	0	0	0
3/21/2025 11:58	14801	TREI_T2	6	11	5	0.62	0.43	-0.19	0	0	0	0	0	0	0	0
3/21/2025 11:58	60701	BREC_T1	1	0	-1	0.2	0	-0.2	-0.26	-0.72	6	6	0	3600	3600	0
3/21/2025 11:59	61103	BERK_T5	1	3	2	0.3	0.13	-0.17	0.07	0.08	0	0	0	0	0	0
3/21/2025 11:59	61101	BERK_T5	3	3	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/21/2025 12:01	11303	EMMA_T1	5	9	4	0.8	0.59	-0.21	0	0	0	0	0	0	0	0
3/21/2025 12:01	11302	EMMA_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 12:01	20402	ASHF_T2	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/21/2025 12:01	20401	ASHF_T2	4	10	6	0.33	0.26	-0.07	0	0	0	0	0	0	0	0
3/21/2025 12:01	20403	ASHF_T2	34	32	-2	0.6	0.55	-0.05	0	-0.03	0	0	0	0	0	0
3/21/2025 12:02	20603	GRWO_T2	0	6	6	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 12:02	20601	GRWO_T2	1	0	-1	0.1	0	-0.1	0.66	0.69	0	0	0	0	0	0
3/21/2025 12:02	11303	EMMA_T1	5	9	4	0.8	0.59	-0.21	0	0	0	0	0	0	0	0
3/21/2025 12:02	11302	EMMA_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 12:03	11303	EMMA_T1	5	9	4	0.8	0.59	-0.21	0	0	0	0	0	0	0	0
3/21/2025 12:03	11302	EMMA_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 12:03	11301	EMMA_T1	0	0	0	0	0	0	-0.85	-0.88	0	0	0	0	0	0
3/21/2025 12:04	11302	EMMA_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 12:04	11303	EMMA_T1	5	9	4	0.8	0.59	-0.21	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/21/2025 12:05	11302	EMMA_T1	1	1	0	1	1.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 12:05	11303	EMMA_T1	5	9	4	0.8	0.59	-0.21	0	0	0	0	0	0	0	0
3/21/2025 12:05	11301	EMMA_T1	0	0	0	0	0	0	-0.85	-0.88	0	0	0	0	0	0
3/21/2025 12:05	44802	EDAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 12:05	44801	EDAN_T2	6	5	-1	0.73	0.66	-0.07	-0.45	-0.45	0	0	0	0	0	0
3/21/2025 12:07	64101	REFR_T1	11	9	-2	0.52	0.75	0.23	0	0	0	0	0	0	0	0
3/21/2025 12:07	66402	ROBE_T1	110	97	-13	0.37	0.28	-0.09	0	0	0	0	0	0	0	0
3/21/2025 12:07	66401	ROBE_T1	284	254	-30	0.4	0.31	-0.09	0	0	1	1	0	600	600	0
3/21/2025 12:08	66401	ROBE_T1	284	254	-30	0.4	0.31	-0.09	0	0	2	2	0	1200	1200	0
3/21/2025 12:08	64501	LAVI_T1	113	88	-25	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
3/21/2025 12:08	58401	MORO_T1	4	6	2	0.28	0.38	0.1	0	0	0	0	0	0	0	0
3/21/2025 12:08	64502	LAVI_T1	115	59	-56	0.24	0.25	0.01	0	0	0	0	0	0	0	0
3/21/2025 12:08	66402	ROBE_T1	110	97	-13	0.37	0.28	-0.09	0	0	0	0	0	0	0	0
3/21/2025 12:08	64503	LAVI_T1	2	2	0	0.55	0.8	0.25	0.28	0.14	2	2	0	2400	2400	0
3/21/2025 12:08	23502	GEOR_T1	0	0	0	0	0	0	-0.27	-0.29	0	0	0	0	0	0
3/21/2025 12:08	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 12:08	58402	MORO_T1	0	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0
3/21/2025 12:09	59402	RFLD_T2	0	5	5	0	0.36	0.36	-0.67	-0.71	1	1	0	450	450	0
3/21/2025 12:09	57201	ROSS_T1	55	55	0	0.31	0.35	0.04	0	0	0	0	0	0	0	0
3/21/2025 12:09	57203	ROSS_T1	2	3	1	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/21/2025 12:09	44202	POIN_T2	0	0	0	0	0	0	-0.62	-0.66	1	1	0	1200	1200	0
3/21/2025 12:09	57205	ROSS_T1	8	9	1	0.88	0.88	0	0	0	0	0	0	0	0	0
3/21/2025 12:10	41205	KENM_T2	0	0	0	0	0	0	-0.08	-0.09	1	0	0	0	0	0
3/21/2025 12:10	64503	LAVI_T1	2	2	0	0.55	0.8	0.25	0.14	0.07	1	1	0	1200	1200	0
3/21/2025 12:10	16302	ALPA_T2	4	2	-2	0.35	0.4	0.05	0.56	0.58	0	0	0	0	0	0
3/21/2025 12:10	43402	BENT_T1	107	107	0	0.67	0.78	0.11	-1.52	-1.54	2	2	0	1800	1800	0
3/21/2025 12:10	64502	LAVI_T1	115	59	-56	0.24	0.25	0.01	0	0	0	0	0	0	0	0
3/21/2025 12:10	64501	LAVI_T1	113	88	-25	0.35	0.25	-0.1	0	0	0	0	0	0	0	0
3/21/2025 12:10	47104	MARL_T1	0	0	0	0	0	0	-2.24	-0.89	0	0	0	0	0	0
3/21/2025 12:10	59402	RFLD_T2	0	5	5	0	0.36	0.36	-0.67	-0.71	1	1	0	450	450	0
3/21/2025 12:10	41204	KENM_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/21/2025 12:11	46005	BERW_T1	1	2	1	0.8	0.85	0.05	0	0	0	0	0	0	0	0
3/21/2025 12:11	16302	ALPA_T2	4	2	-2	0.35	0.4	0.05	0.56	0.58	0	0	0	0	0	0
3/21/2025 12:11	58201	NEWV_T1	3	2	-1	0.3	0.4	0.1	0	0	0	0	0	0	0	0
3/21/2025 12:11	58202	NEWV_T1	12	4	-8	0.66	0.53	-0.13	0.21	0.15	0	0	0	0	0	0
3/21/2025 12:11	43801	SWIL_T1	40	27	-13	0.32	0.39	0.07	0	0	0	0	0	0	0	0
3/21/2025 12:11	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 12:11	43802	SWIL_T1	3	5	2	0.47	0.34	-0.13	0	0	0	0	0	0	0	0
3/21/2025 12:12	59402	RFLD_T2	0	5	5	0	0.36	0.36	-0.67	-0.71	1	1	0	450	450	0
3/21/2025 12:12	55507	HEBS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 12:12	43801	SWIL_T1	40	27	-13	0.32	0.39	0.07	0	0	0	0	0	0	0	0
3/21/2025 12:12	57205	ROSS_T1	8	9	1	0.88	0.88	0	0	0	0	0	0	0	0	0
3/21/2025 12:12	43802	SWIL_T1	3	5	2	0.47	0.34	-0.13	-0.4	-0.42	2	2	0	1200	1200	0
3/21/2025 12:12	57201	ROSS_T1	55	55	0	0.31	0.35	0.04	0	0	0	0	0	0	0	0
3/21/2025 12:12	16302	ALPA_T2	4	2	-2	0.35	0.4	0.05	0.56	0.58	0	0	0	0	0	0
3/21/2025 12:12	57203	ROSS_T1	2	3	1	0.2	0.4	0.2	0.82	0.76	0	0	0	0	0	0
3/21/2025 12:13	46001	BERW_T1	0	0	0	0	0	0	0.87	0.74	0	0	0	0	0	0
3/21/2025 12:13	46005	BERW_T1	1	2	1	0.8	0.85	0.05	0	0	0	0	0	0	0	0
3/21/2025 12:13	42701	AUGU_T1	1	3	2	0.2	0.17	-0.03	0	0	2	2	0	1800	1800	0
3/21/2025 12:13	16302	ALPA_T2	4	2	-2	0.35	0.4	0.05	0.56	0.58	0	0	0	0	0	0
3/21/2025 12:14	44801	EDAN_T2	6	5	-1	0.73	0.66	-0.07	0	0	0	0	0	0	0	0
3/21/2025 12:14	44802	EDAN_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 12:14	46001	BERW_T1	0	0	0	0	0	0	0.87	0.74	0	0	0	0	0	0
3/21/2025 12:14	46005	BERW_T1	1	2	1	0.8	0.85	0.05	0	0	0	0	0	0	0	0
3/21/2025 12:15	42701	AUGU_T1	3	4	1	0.17	0.28	0.11	0	0	2	2	0	1800	1800	0
3/21/2025 12:15	44802	EDAN_T2	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
3/21/2025 12:15	44801	EDAN_T2	4	5	1	0.7	0.7	0	0	0	0	0	0	0	0	0
3/21/2025 12:16	44801	EDAN_T2	4	5	1	0.7	0.7	0	0	0	0	0	0	0	0	0
3/21/2025 12:16	44802	EDAN_T2	0	0	0	0	0	0	-1.82	-1.84	0	0	0	0	0	0
3/21/2025 12:17	44802	EDAN_T2	0	0	0	0	0	0	-1.82	-1.84	0	0	0	0	0	0
3/21/2025 12:17	44801	EDAN_T2	4	5	1	0.7	0.7	0	0	0	0	0	0	0	0	0
3/21/2025 12:18	44801	EDAN_T2	4	5	1	0.7	0.7	0	0	0	0	0	0	0	0	0
3/21/2025 12:18	44802	EDAN_T2	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
3/21/2025 12:19	44801	EDAN_T2	4	5	1	0.7	0.7	0	0	0	0	0	0	0	0	0
3/21/2025 12:19	44802	EDAN_T2	0	0	0	0	0	0	-0.91	-0.92	0	0	0	0	0	0
3/21/2025 12:20	46803	HEPB_T2	7	10	3	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
3/21/2025 12:20	46801	HEPB_T2	13	9	-4	0.38	0.47	0.09	0.65	0.54	0	0	0	0	0	0
3/21/2025 12:20	63501	HEID_TBK1-2	2	4	2	0.3	0.3	0	0.6	0.53	0	0	0	0	0	0
3/21/2025 12:21	46803	HEPB_T2	7	10	3	0.36	0.34	-0.02	0	0	0	0	0	0	0	0
3/21/2025 12:21	46801	HEPB_T2	13	9	-4	0.38	0.47	0.09	0.54	0.58	0	0	0	0	0	0
3/21/2025 12:22	41002	LAUR_T2	27	51	24	0.3	0.28	-0.02	0	0	0	0	0	0	0	0
3/21/2025 12:22	41001	LAUR_T2	75	83	8	0.38	0.44	0.06	0	0	0	0	0	0	0	0
3/21/2025 12:23	46802	HEPB_T1	5	5	0	0.32	0.42	0.1	-0.37	-0.34	0	0	0	0	0	0
3/21/2025 12:25	43402	BENT_T1	102	105	3	0.62	0.78	0.16	-0.77	-0.76	1	1	0	900	900	0
3/21/2025 12:26	44203	POIN_T2	0	0	0	0	0	0	0.06	0.08	1	1	0	900	900	0
3/21/2025 12:26	46203	DANV_T2	165	32	-133	0.6	0.54	-0.06	0.22	0.2	0	0	0	0	0	0
3/21/2025 12:26	43402	BENT_T1	102	105	3	0.62	0.78	0.16	-0.77	-0.76	1	1	0	900	900	0
3/21/2025 12:26	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 12:26	46201	DANV_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
3/21/2025 12:27	46204	DANV_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 12:27	46201	DANV_T2	1	1	0	0.8	0.2	-0.6	0	0	0	0	0	0	0	0
3/21/2025 12:27	46203	DANV_T2	165	32	-133	0.6	0.54	-0.06	0.22	0.2	0	0	0	0	0	0
3/21/2025 12:28	27501	WEIS_T1	0	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0
3/21/2025 12:28	59402	RFLD_T2	1	5	4	0.2	0.36	0.16	-0.71	-0.57	1	1	0	450	450	0
3/21/2025 12:28	42701	AUGU_T1	3	4	1	0.17	0.28	0.11	0	0	2	2	0	1800	1800	0
3/21/2025 12:28	27504	WEIS_T1	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0
3/21/2025 12:29	41301	FISH_T1	3	6	3	2.3	1.33	-0.97	0	0	0	0	0	0	0	0
3/21/2025 12:29	41305	FISH_T1	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/21/2025 12:31	54501	ENOL_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
3/21/2025 12:31	54504	ENOL_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
3/21/2025 12:31	46203	DANV_T2	31	24	-7	0.54	0.67	0.13	0.44	0.4	0	0	0	0	0	0
3/21/2025 12:31	54503	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 12:31	53903	HALI_T2	12	12	0	0.77	0.69	-0.08	0	0	0	0	0	0	0	0
3/21/2025 12:31	53901	HALI_T2	7	6	-1	0.44	0.53	0.09	-1.04	-1.05	0	0	0	0	0	0
3/21/2025 12:31	54505	ENOL_T2	1	4	3	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
3/21/2025 12:31	54502	ENOL_T2	4	5	1	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
3/21/2025 12:31	41301	FISH_T1	6	6	0	1.17	1.3	0.13	-0.52	-0.52	0	0	0	0	0	0
3/21/2025 12:31	41305	FISH_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
3/21/2025 12:31	53902	HALI_T2	7	8	1	1.36	1.25	-0.11	0	0	0	0	0	0	0	0
3/21/2025 12:31	46201	DANV_T2	1	1	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0
3/21/2025 12:32	41301	FISH_T1	6	6	0	1.17	1.3	0.13	-0.26	-0.26	0	0	0	0	0	0
3/21/2025 12:32	41305	FISH_T1	1	1	0	0.4	0.9	0.5	0	0	0	0	0	0	0	0
3/21/2025 12:32	22602	KIMB_T1	3	3	0	0.2	0.27	0.07	0	0	0	0	0	0	0	0
3/21/2025 12:32	22601	KIMB_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/21/2025 12:33	44801	EDAN_T2	5	4	-1	0.66	0.98	0.32	0	0	0	0	0	0	0	0
3/21/2025 12:33	44802	EDAN_T2	0	1	1	0	0.2	0.2	-0.92	-0.94	0	0	0	0	0	0
3/21/2025 12:33	54501	ENOL_T2	0	0	0	0	0	0	0.11	0.09	0	0	0	0	0	0
3/21/2025 12:33	54503	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 12:33	54505	ENOL_T2	1	4	3	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
3/21/2025 12:33	54502	ENOL_T2	4	5	1	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
3/21/2025 12:33	54504	ENOL_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
3/21/2025 12:35	54505	ENOL_T2	1	4	3	0.9	0.55	-0.35	0	0	0	0	0	0	0	0
3/21/2025 12:35	54502	ENOL_T2	4	5	1	0.48	0.4	-0.08	0	0	0	0	0	0	0	0
3/21/2025 12:35	54503	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 12:35	44505	HAMI_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/21/2025 12:35	54504	ENOL_T2	2	2	0	0.25	0.45	0.2	-1.07	-1.09	1	1	0	600	600	0
3/21/2025 12:35	44502	HAMI_T2	1	2	1	2.4	1.3	-1.1	0	0	0	0	0	0	0	0
3/21/2025 12:36	53903	HALI_T2	12	12	0	0.77	0.69	-0.08	0	0	0	0	0	0	0	0
3/21/2025 12:36	53901	HALI_T2	7	6	-1	0.44	0.53	0.09	-1.04	-1.05	0	0	0	0	0	0
3/21/2025 12:36	53902	HALI_T2	7	8	1	1.36	1.25	-0.11	0	0	0	0	0	0	0	0
3/21/2025 12:37	44502	HAMI_T2	1	2	1	2.4	1.3	-1.1	0	0	0	0	0	0	0	0
3/21/2025 12:37	44505	HAMI_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/21/2025 12:38	64902	MILL_T2	0	0	0	0	0	0	0.15	0.19	0	0	0	0	0	0
3/21/2025 12:38	64903	MILL_T2	0	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0
3/21/2025 12:38	64702	LITI_T2	0	0	0	0	0	0	-0.71	-0.76	0	0	0	0	0	0
3/21/2025 12:39	44505	HAMI_T2	1	0	-1	0.5	0	-0.5	0.58	0.62	0	0	0	0	0	0
3/21/2025 12:39	60502	NMAN_T2	3	7	4	0.33	0.41	0.08	0	0	0	0	0	0	0	0
3/21/2025 12:39	55003	NEWP_T2	14	15	1	0.4	0.42	0.02	0	0	0	0	0	0	0	0
3/21/2025 12:39	60501	NMAN_T2	6	10	4	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
3/21/2025 12:39	44502	HAMI_T2	1	2	1	2.4	1.3	-1.1	0.05	0.05	0	0	0	0	0	0
3/21/2025 12:39	60504	NMAN_T2	3	3	0	0.77	0.67	-0.1	0	0	0	0	0	0	0	0
3/21/2025 12:40	63601	LETO_T1	3	3	0	0.23	0.37	0.14	0	0	0	0	0	0	0	0
3/21/2025 12:40	44502	HAMI_T2	1	2	1	2.4	1.3	-1.1	0	0	0	0	0	0	0	0
3/21/2025 12:40	44505	HAMI_T2	1	0	-1	0.5	0	-0.5	0.58	0.62	0	0	0	0	0	0
3/21/2025 12:40	60501	NMAN_T2	6	10	4	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
3/21/2025 12:40	63601	LETO_T1	4	7	3	0.53	0.44	-0.09	-0.52	-0.56	0	0	0	0	0	0
3/21/2025 12:40	43304	WATS_T2	0	0	0	0	0	0	1.02	1.02	3	3	0	1800	1800	0
3/21/2025 12:40	60504	NMAN_T2	3	3	0	0.77	0.67	-0.1	0	0	0	0	0	0	0	0
3/21/2025 12:40	60502	NMAN_T2	3	7	4	0.33	0.41	0.08	-1.02	-1.17	0	0	0	0	0	0
3/21/2025 12:40	43301	WATS_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
3/21/2025 12:41	43304	WATS_T2	0	0	0	0	0	0	0.34	0.34	1	1	0	600	600	0
3/21/2025 12:41	55003	NEWP_T2	14	15	1	0.4	0.42	0.02	0	0	0	0	0	0	0	0
3/21/2025 12:41	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 12:41	43301	WATS_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
3/21/2025 12:42	60501	NMAN_T2	6	10	4	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
3/21/2025 12:42	60502	NMAN_T2	3	7	4	0.33	0.41	0.08	0	0	0	0	0	0	0	0
3/21/2025 12:42	43301	WATS_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
3/21/2025 12:42	43304	WATS_T2	0	0	0	0	0	0	0.34	0.34	1	1	0	600	600	0
3/21/2025 12:42	55003	NEWP_T2	14	15	1	0.4	0.42	0.02	-0.04	-0.08	0	0	0	0	0	0
3/21/2025 12:42	60504	NMAN_T2	3	3	0	0.77	0.67	-0.1	0	0	0	0	0	0	0	0
3/21/2025 12:44	60502	NMAN_T2	3	7	4	0.33	0.41	0.08	-1.02	-1.17	0	0	0	0	0	0
3/21/2025 12:44	43304	WATS_T2	0	0	0	0	0	0	0.34	0.34	1	1	0	600	600	0
3/21/2025 12:44	43301	WATS_T2	1	2	1	0.4	0.35	-0.05	0	0	0	0	0	0	0	0
3/21/2025 12:44	60501	NMAN_T2	6	10	4	0.53	0.5	-0.03	0	0	0	0	0	0	0	0
3/21/2025 12:44	14801	TREI_T2	10	15	5	0.47	0.45	-0.02	0	0	0	0	0	0	0	0
3/21/2025 12:44	60504	NMAN_T2	3	3	0	0.77	0.67	-0.1	0	0	0	0	0	0	0	0
3/21/2025 12:44	14802	TREI_T2	9	13	4	0.22	0.28	0.06	0.36	0.38	0	0	0	0	0	0
3/21/2025 12:45	61001	DONV_T1	1	1	0	0.6	0.1	-0.5	-0.07	-0.08	0	0	0	0	0	0
3/21/2025 12:46	54503	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 12:46	54505	ENOL_T2	4	3	-1	0.35	0.83	0.48	-1.31	-1.32	1	1	0	600	600	0
3/21/2025 12:46	54502	ENOL_T2	4	8	4	0.4	0.69	0.29	0	0	0	0	0	0	0	0
3/21/2025 12:46	54504	ENOL_T2	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
3/21/2025 12:48	41305	FISH_T1	1	1	0	0.2	0.9	0.7	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/21/2025 12:48	41301	FISH_T1	6	6	0	1.3	1.25	-0.05	-0.26	-0.27	0	0	0	0	0	0
3/21/2025 12:48	61002	DONV_T2	0	0	0	0	0	0	-0.82	-0.86	1	1	0	600	600	0
3/21/2025 12:50	54503	ENOL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 12:50	54505	ENOL_T2	4	3	-1	0.35	0.83	0.48	-1.31	-1.32	1	1	0	600	600	0
3/21/2025 12:50	54504	ENOL_T2	1	2	1	0.3	0.45	0.15	0	0	0	0	0	0	0	0
3/21/2025 12:50	54502	ENOL_T2	4	8	4	0.4	0.69	0.29	0	0	0	0	0	0	0	0
3/21/2025 12:53	64101	REFR_T1	8	9	1	0.51	0.73	0.22	0	0	0	0	0	0	0	0
3/21/2025 12:54	47403	PENS_T1	6	7	1	0.52	0.61	0.09	0	0	0	0	0	0	0	0
3/21/2025 12:54	47401	PENS_T1	5	5	0	0.96	1.22	0.26	0.96	0.95	0	0	0	0	0	0
3/21/2025 12:54	47402	PENS_T1	2	3	1	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/21/2025 12:57	10805	CHIH_T2	1	2	1	8.5	8.4	-0.1	-0.5	-0.39	0	0	0	0	0	0
3/21/2025 12:58	67904	WNHO_T1	0	0	0	0	0	0	-1.18	-1.18	1	1	0	1200	1200	0
3/21/2025 12:59	41601	CLEV_T1	1	1	0	0.9	1.1	0.2	0	0	0	0	0	0	0	0
3/21/2025 12:59	41602	CLEV_T1	3	4	1	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/21/2025 13:02	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 13:03	53901	HALI_T2	5	6	1	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/21/2025 13:03	53902	HALI_T2	7	6	-1	1.41	1.62	0.21	0	0	0	0	0	0	0	0
3/21/2025 13:03	53903	HALI_T2	10	11	1	0.68	0.7	0.02	0	0	0	0	0	0	0	0
3/21/2025 13:07	41202	KENM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 13:07	41204	KENM_T2	1	1	0	0.5	0.5	0	-0.04	-0.03	0	0	0	0	0	0
3/21/2025 13:08	47901	HROG_T1	0	0	0	0	0	0	1.71	1.53	0	0	0	0	0	0
3/21/2025 13:09	60803	BUCK_T1	5	2	-3	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
3/21/2025 13:09	46506	LOHA_T1	8	11	3	2.03	1.76	-0.27	-0.14	-0.16	0	0	0	0	0	0
3/21/2025 13:09	64903	MILL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 13:09	46501	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 13:09	46504	LOHA_T1	32	45	13	0.29	0.35	0.06	0	0	0	0	0	0	0	0
3/21/2025 13:09	46503	LOHA_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/21/2025 13:09	64902	MILL_T2	0	1	1	0	0	0	0.18	0.14	0	0	0	0	0	0
3/21/2025 13:09	60801	BUCK_T1	9	6	-3	0.31	0.43	0.12	0	0	0	0	0	0	0	0
3/21/2025 13:10	60803	BUCK_T1	5	2	-3	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
3/21/2025 13:10	60801	BUCK_T1	9	6	-3	0.31	0.43	0.12	-0.19	-0.16	0	0	0	0	0	0
3/21/2025 13:10	52402	GRPA_T2	194	205	11	4.16	4.78	0.62	0	0	0	0	0	0	0	0
3/21/2025 13:10	52403	GRPA_T2	195	278	83	0.7	0.74	0.04	0	0	0	0	0	0	0	0
3/21/2025 13:10	64702	LITI_T2	0	1	1	0	0.1	0.1	-0.73	-0.63	0	0	0	0	0	0
3/21/2025 13:10	57401	SPAN_T1	2	3	1	1	0.6	-0.4	0.11	0.13	0	0	0	0	0	0
3/21/2025 13:10	52404	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/21/2025 13:10	57403	SPAN_T1	8	10	2	0.46	0.44	-0.02	0	0	0	0	0	0	0	0
3/21/2025 13:10	52401	GRPA_T2	8	83	75	0.48	0.26	-0.22	0	0	0	0	0	0	0	0
3/21/2025 13:11	46503	LOHA_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/21/2025 13:11	17803	GILB_T2	1	2	1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/21/2025 13:11	46506	LOHA_T1	8	11	3	2.03	1.76	-0.27	0	0	0	0	0	0	0	0
3/21/2025 13:11	66505	SMAN_T2	2	1	-1	0.15	0.8	0.65	0	0	0	0	0	0	0	0
3/21/2025 13:11	52404	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/21/2025 13:11	60803	BUCK_T1	5	2	-3	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
3/21/2025 13:11	66502	SMAN_T2	3	3	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
3/21/2025 13:11	66504	SMAN_T2	4	4	0	0.68	0.68	0	-1.2	-1.18	0	0	0	0	0	0
3/21/2025 13:11	17804	GILB_T2	5	35	30	0.46	0.34	-0.12	0	0	0	0	0	0	0	0
3/21/2025 13:11	66503	SMAN_T2	2	2	0	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
3/21/2025 13:11	67502	WEWI_T2	101	139	38	0.31	0.28	-0.03	0	0	0	0	0	0	0	0
3/21/2025 13:11	67503	WEWI_T2	7	7	0	0.53	0.49	-0.04	0	0	0	0	0	0	0	0
3/21/2025 13:11	66501	SMAN_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
3/21/2025 13:11	46501	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 13:11	46504	LOHA_T1	32	45	13	0.29	0.35	0.06	0	0	0	0	0	0	0	0
3/21/2025 13:11	52403	GRPA_T2	195	278	83	0.7	0.74	0.04	0	0	0	0	0	0	0	0
3/21/2025 13:11	17805	GILB_T2	1	3	2	0.4	0.4	0	0	-0.04	0	0	0	0	0	0
3/21/2025 13:11	52402	GRPA_T2	194	205	11	4.16	4.78	0.62	0	0	0	0	0	0	0	0
3/21/2025 13:11	52401	GRPA_T2	8	83	75	0.48	0.26	-0.22	-1.21	-1.22	0	0	0	0	0	0
3/21/2025 13:11	60801	BUCK_T1	9	6	-3	0.31	0.43	0.12	-0.37	-0.32	0	0	0	0	0	0
3/21/2025 13:12	46501	LOHA_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 13:12	66501	SMAN_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
3/21/2025 13:12	57403	SPAN_T1	8	10	2	0.46	0.44	-0.02	0.04	0.05	0	0	0	0	0	0
3/21/2025 13:12	52404	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/21/2025 13:12	66503	SMAN_T2	2	2	0	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
3/21/2025 13:12	52402	GRPA_T2	194	205	11	4.16	4.78	0.62	0	0	0	0	0	0	0	0
3/21/2025 13:12	57401	SPAN_T1	2	3	1	1	0.6	-0.4	0	0	0	0	0	0	0	0
3/21/2025 13:12	52403	GRPA_T2	195	278	83	0.7	0.74	0.04	0	0	0	0	0	0	0	0
3/21/2025 13:12	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 13:12	46504	LOHA_T1	32	45	13	0.29	0.35	0.06	0	0	0	0	0	0	0	0
3/21/2025 13:12	66505	SMAN_T2	2	1	-1	0.15	0.8	0.65	0	0	0	0	0	0	0	0
3/21/2025 13:12	46503	LOHA_T1	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/21/2025 13:12	66504	SMAN_T2	4	4	0	0.68	0.68	0	-0.6	-0.59	0	0	0	0	0	0
3/21/2025 13:12	66502	SMAN_T2	3	3	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
3/21/2025 13:12	52401	GRPA_T2	8	83	75	0.48	0.26	-0.22	0	0	0	0	0	0	0	0
3/21/2025 13:12	46506	LOHA_T1	8	11	3	2.03	1.76	-0.27	0	0	0	0	0	0	0	0
3/21/2025 13:12	67902	WNHO_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 13:13	66503	SMAN_T2	2	2	0	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
3/21/2025 13:13	66502	SMAN_T2	3	3	0	0.33	0.4	0.07	0	0	0	0	0	0	0	0
3/21/2025 13:13	66504	SMAN_T2	4	4	0	0.68	0.68	0	0	0	0	0	0	0	0	0
3/21/2025 13:13	66501	SMAN_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
3/21/2025 13:13	52404	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/21/2025 13:13	58401	MORO_T1	8	11	3	0.34	0.43	0.09	0	0	0	0	0	0	0	0
3/21/2025 13:13	52402	GRPA_T2	194	205	11	4.16	4.78	0.62	0	0	0	0	0	0	0	0
3/21/2025 13:13	58402	MORO_T1	5	6	1	0.44	0.38	-0.06	-0.11	-0.14	2	2	0	1500	1500	0
3/21/2025 13:13	52403	GRPA_T2	195	278	83	0.7	0.74	0.04	0	0	0	0	0	0	0	0
3/21/2025 13:13	52401	GRPA_T2	8	83	75	0.48	0.26	-0.22	0	0	0	0	0	0	0	0
3/21/2025 13:13	66505	SMAN_T2	2	1	-1	0.15	0.8	0.65	0	0	0	0	0	0	0	0
3/21/2025 13:14	66505	SMAN_T2	2	1	-1	0.15	0.8	0.65	0	0	0	0	0	0	0	0
3/21/2025 13:14	52402	GRPA_T2	194	205	11	4.16	4.78	0.62	0	0	0	0	0	0	0	0
3/21/2025 13:14	52404	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/21/2025 13:14	66502	SMAN_T2	3	3	0	0.33	0.4	0.07	0.15	0.16	0	0	0	0	0	0
3/21/2025 13:14	60801	BUCK_T1	9	6	-3	0.31	0.43	0.12	-0.19	-0.16	0	0	0	0	0	0
3/21/2025 13:14	66503	SMAN_T2	2	2	0	0.6	0.35	-0.25	0	0	0	0	0	0	0	0
3/21/2025 13:14	52403	GRPA_T2	195	278	83	0.7	0.74	0.04	0	0	0	0	0	0	0	0
3/21/2025 13:14	52401	GRPA_T2	8	83	75	0.48	0.26	-0.22	0	0	0	0	0	0	0	0
3/21/2025 13:14	60803	BUCK_T1	5	2	-3	0.16	0.15	-0.01	0	0	0	0	0	0	0	0
3/21/2025 13:14	66504	SMAN_T2	4	4	0	0.68	0.68	0	-0.6	-0.59	0	0	0	0	0	0
3/21/2025 13:14	66501	SMAN_T2	1	2	1	0.1	0.45	0.35	0	0	0	0	0	0	0	0
3/21/2025 13:15	57403	SPAN_T1	8	11	3	0.48	0.46	-0.02	0.04	0.05	0	0	0	0	0	0
3/21/2025 13:15	66503	SMAN_T2	2	1	-1	0.25	0.7	0.45	0	0	0	0	0	0	0	0
3/21/2025 13:15	66502	SMAN_T2	1	5	4	0.2	0.28	0.08	0	0	0	0	0	0	0	0
3/21/2025 13:15	66505	SMAN_T2	0	4	4	0	0.35	0.35	0	0	0	0	0	0	0	0
3/21/2025 13:15	57401	SPAN_T1	3	4	1	0.6	0.8	0.2	0	0	0	0	0	0	0	0
3/21/2025 13:15	66504	SMAN_T2	4	4	0	0.5	0.68	0.18	-0.6	-0.59	0	0	0	0	0	0
3/21/2025 13:15	66501	SMAN_T2	2	2	0	0.25	0.45	0.2	0	0	0	0	0	0	0	0
3/21/2025 13:16	61701	ELIZ_T1	3	2	-1	2.27	3.3	1.03	0	0	0	0	0	0	0	0
3/21/2025 13:16	61703	ELIZ_T1	10	7	-3	0.43	0.4	-0.03	-2.09	-2.15	1	1	0	900	900	0
3/21/2025 13:17	54503	ENOL_T2	0	2	2	0	0.15	0.15	0	0	0	0	0	0	0	0
3/21/2025 13:17	61703	ELIZ_T1	10	7	-3	0.43	0.4	-0.03	0	0	0	0	0	0	0	0
3/21/2025 13:17	54504	ENOL_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/21/2025 13:17	61701	ELIZ_T1	3	2	-1	2.27	3.3	1.03	0.13	0.42	0	0	0	0	0	0
3/21/2025 13:17	54505	ENOL_T2	3	4	1	0.83	0.75	-0.08	0	0	0	0	0	0	0	0
3/21/2025 13:17	45801	HEGI_T1	0	1	1	0	0.1	0.1	-0.34	-0.31	1	1	0	900	900	0
3/21/2025 13:17	54502	ENOL_T2	7	6	-1	0.69	0.85	0.16	0	0	0	0	0	0	0	0
3/21/2025 13:17	54501	ENOL_T2	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/21/2025 13:18	15702	TANN_T2	1	2	1	0.4	0.5	0.1	-0.41	-0.43	0	0	0	0	0	0
3/21/2025 13:18	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/21/2025 13:22	63601	LETO_T1	3	1	-2	0.13	0.2	0.07	0	0	0	0	0	0	0	0
3/21/2025 13:22	63602	LETO_T1	5	8	3	0.38	0.4	0.02	-0.55	-0.59	0	0	0	0	0	0
3/21/2025 13:25	63602	LETO_T1	5	8	3	0.38	0.4	0.02	-0.55	-0.59	0	0	0	0	0	0
3/21/2025 13:25	63601	LETO_T1	3	1	-2	0.13	0.2	0.07	0	0	0	0	0	0	0	0
3/21/2025 13:26	43802	SWIL_T1	8	8	0	0.33	0.34	0.01	-0.24	-0.24	1	1	0	600	600	0
3/21/2025 13:26	43801	SWIL_T1	40	84	44	0.35	0.28	-0.07	0	0	0	0	0	0	0	0
3/21/2025 13:28	52401	GRPA_T2	82	66	-16	0.26	0.21	-0.05	-1.22	-1.19	0	0	0	0	0	0
3/21/2025 13:28	52403	GRPA_T2	276	251	-25	0.73	0.66	-0.07	0	0	0	0	0	0	0	0
3/21/2025 13:28	52404	GRPA_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/21/2025 13:28	52402	GRPA_T2	204	237	33	4.64	4.72	0.08	0	0	0	0	0	0	0	0
3/21/2025 13:31	52401	GRPA_T2	61	83	22	0.2	0.23	0.03	-1.22	-1.19	0	0	0	0	0	0
3/21/2025 13:31	52404	GRPA_T2	1	1	0	0.5	0.6	0.1	0	0	0	0	0	0	0	0
3/21/2025 13:31	52403	GRPA_T2	230	274	44	0.63	0.65	0.02	0	0	0	0	0	0	0	0
3/21/2025 13:31	52402	GRPA_T2	202	269	67	4.83	4.25	-0.58	0	0	0	0	0	0	0	0
3/21/2025 13:33	57403	SPAN_T1	8	15	7	0.46	0.51	0.05	0	0	0	0	0	0	0	0
3/21/2025 13:33	57401	SPAN_T1	2	4	2	0.75	0.83	0.08	0	0	0	0	0	0	0	0
3/21/2025 13:36	57403	SPAN_T1	8	15	7	0.46	0.51	0.05	0	0	0	0	0	0	0	0
3/21/2025 13:36	57401	SPAN_T1	2	4	2	0.75	0.83	0.08	0	0	0	0	0	0	0	0
3/21/2025 13:37	63601	LETO_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
3/21/2025 13:37	63602	LETO_T1	5	10	5	0.34	0.43	0.09	-0.59	-0.6	0	0	0	0	0	0
3/21/2025 13:40	66504	SMAN_T2	4	4	0	0.68	0.73	0.05	0	0	0	0	0	0	0	0
3/21/2025 13:40	66501	SMAN_T2	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
3/21/2025 13:40	66502	SMAN_T2	3	6	3	0.4	0.42	0.02	0	0	0	0	0	0	0	0
3/21/2025 13:40	66505	SMAN_T2	1	4	3	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
3/21/2025 13:40	64101	REFR_T1	8	29	21	0.63	0.37	-0.26	0	0	0	0	0	0	0	0
3/21/2025 13:40	66503	SMAN_T2	1	2	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/21/2025 13:41	10109	ALLE_T3	1	1	0	0.2	0.5	0.3	0	0	0	0	0	0	0	0
3/21/2025 13:41	10101	ALLE_T3	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
3/21/2025 13:41	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 13:42	66505	SMAN_T2	1	4	3	0.8	0.65	-0.15	0	0	0	0	0	0	0	0
3/21/2025 13:42	66504	SMAN_T2	4	4	0	0.68	0.73	0.05	-0.55	-0.58	0	0	0	0	0	0
3/21/2025 13:42	66501	SMAN_T2	2	2	0	0.45	0.6	0.15	0	0	0	0	0	0	0	0
3/21/2025 13:42	67401	WAKE_T2	5	6	1	0.58	0.43	-0.15	-1.1	-1.08	0	0	0	0	0	0
3/21/2025 13:42	66502	SMAN_T2	3	6	3	0.4	0.42	0.02	0	0	0	0	0	0	0	0
3/21/2025 13:42	66503	SMAN_T2	1	2	1	0.4	0.7	0.3	0	0	0	0	0	0	0	0
3/21/2025 13:42	67402	WAKE_T2	0	0	0	0	0	0	1.02	1.03	0	0	0	0	0	0
3/21/2025 13:43	67402	WAKE_T2	0	0	0	0	0	0	1.02	1.03	0	0	0	0	0	0
3/21/2025 13:43	42701	AUGU_T1	3	2	-1	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/21/2025 13:43	67401	WAKE_T2	5	6	1	0.58	0.43	-0.15	0	0	0	0	0	0	0	0
3/21/2025 13:44	67401	WAKE_T2	5	6	1	0.58	0.43	-0.15	0	0	0	0	0	0	0	0
3/21/2025 13:44	45501	DERR_T2	6	8	2	0.53	0.84	0.31	-0.16	-0.15	2	2	0	1800	1800	0
3/21/2025 13:44	67402	WAKE_T2	0	0	0	0	0	0	1.02	1.03	0	0	0	0	0	0
3/21/2025 13:47	16102	BING_T2	7	11	4	1	0.84	-0.16	0.1	0.03	0	0	0	0	0	0
3/21/2025 13:47	16101	BING_T2	4	4	0	0.78	0.73	-0.05	0	0	0	0	0	0	0	0
3/21/2025 13:47	16103	BING_T2	2	2	0	0.95	1.1	0.15	0	0	0	0	0	0	0	0
3/21/2025 13:50	26704	HEMI_T2	0	0	0	0	0	0	-0.42	-0.43	0	0	0	0	0	0
3/21/2025 13:50	26702	HEMI_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/21/2025 13:52	42902	MIDD_T2	21	19	-2	0.59	0.6	0.01	-2.76	-2.76	3	3	0	1800	1800	0
3/21/2025 13:52	42903	MIDD_T2	2	3	1	0.4	0.57	0.17	0	0	0	0	0	0	0	0
3/21/2025 13:54	67101	SPRI_T2	1	2	1	2.6	1.45	-1.15	0	0	0	0	0	0	0	0
3/21/2025 13:54	67106	SPRI_T2	10	17	7	0.3	0.27	-0.03	0	0	0	0	0	0	0	0
3/21/2025 13:54	47402	PENS_T1	3	5	2	0.67	0.82	0.15	0	0	0	0	0	0	0	0
3/21/2025 13:54	47403	PENS_T1	7	11	4	0.79	0.94	0.15	0	0	0	0	0	0	0	0
3/21/2025 13:54	67102	SPRI_T2	2	9	7	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
3/21/2025 13:54	47401	PENS_T1	5	8	3	1.14	1.08	-0.06	1.01	1.07	0	0	0	0	0	0
3/21/2025 13:55	42902	MIDD_T2	21	19	-2	0.59	0.6	0.01	-0.92	-0.92	1	1	0	600	600	0
3/21/2025 13:55	42903	MIDD_T2	2	3	1	0.4	0.57	0.17	0	0	0	0	0	0	0	0
3/21/2025 13:56	43202	MVIL_T2	182	304	122	0.94	0.88	-0.06	-0.63	-0.66	0	0	0	0	0	0
3/21/2025 13:56	42902	MIDD_T2	21	19	-2	0.59	0.6	0.01	0	0	0	0	0	0	0	0
3/21/2025 13:56	42903	MIDD_T2	2	3	1	0.4	0.57	0.17	0	0	0	0	0	0	0	0
3/21/2025 13:56	64701	LITI_T1	0	0	0	0	0	0	0.25	0.3	0	0	0	0	0	0
3/21/2025 13:56	43201	MVIL_T2	5	10	5	0.4	0.74	0.34	0	0	0	0	0	0	0	0
3/21/2025 13:57	42902	MIDD_T2	21	19	-2	0.59	0.6	0.01	-2.76	-2.76	3	3	0	1800	1800	0
3/21/2025 13:57	65302	NBRI_T2	4	5	1	0.43	0.6	0.17	0	0	0	0	0	0	0	0
3/21/2025 13:57	65303	NBRI_T2	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0	0
3/21/2025 13:57	42903	MIDD_T2	2	3	1	0.4	0.57	0.17	0	0	0	0	0	0	0	0
3/21/2025 13:57	45501	DERR_T2	7	13	6	0.81	0.76	-0.05	-0.15	-0.18	2	2	0	1800	1800	0
3/21/2025 13:57	42501	ALTA_T2	1	2	1	0.6	0.35	-0.25	-0.01	-0.01	1	1	0	600	600	0
3/21/2025 13:58	20402	ASHF_T2	1	3	2	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/21/2025 13:58	43201	MVIL_T2	5	10	5	0.4	0.74	0.34	0	0	0	0	0	0	0	0
3/21/2025 13:58	43202	MVIL_T2	182	304	122	0.94	0.88	-0.06	-0.63	-0.66	0	0	0	0	0	0
3/21/2025 13:58	41602	CLEV_T1	4	5	1	0.9	0.6	-0.3	0	0	0	0	0	0	0	0
3/21/2025 13:58	41601	CLEV_T1	1	2	1	1.3	0.85	-0.45	0	0	0	0	0	0	0	0
3/21/2025 13:58	20403	ASHF_T2	46	120	74	0.69	0.45	-0.24	0	0	0	0	0	0	0	0
3/21/2025 13:58	20401	ASHF_T2	13	15	2	0.33	0.42	0.09	0.28	0.28	0	0	0	0	0	0
3/21/2025 13:58	67303	WYOM_T2	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/21/2025 13:59	67106	SPRI_T2	10	17	7	0.3	0.27	-0.03	-5.91	-3.84	6	3	-3	4500	2700	-1800
3/21/2025 13:59	67101	SPRI_T2	1	2	1	2.6	1.45	-1.15	0	0	0	0	0	0	0	0
3/21/2025 13:59	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 13:59	42501	ALTA_T2	1	2	1	0.6	0.35	-0.25	-0.01	-0.01	1	1	0	600	600	0
3/21/2025 13:59	24104	EHAZ_T1	1	6	5	0.3	0.33	0.03	0	0	0	0	0	0	0	0
3/21/2025 13:59	67102	SPRI_T2	2	9	7	0.4	0.28	-0.12	0	0	0	0	0	0	0	0
3/21/2025 13:59	24105	EHAZ_T1	4	4	0	6.08	5.65	-0.43	0	0	0	0	0	0	0	0
3/21/2025 13:59	52402	GRPA_T2	236	265	29	4.73	4.29	-0.44	0	0	0	0	0	0	0	0
3/21/2025 13:59	67902	WNHO_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 13:59	52401	GRPA_T2	55	81	26	0.2	0.22	0.02	0	0	0	0	0	0	0	0
3/21/2025 13:59	24103	EHAZ_T1	4	0	-4	0.7	0	-0.7	-1.22	-1.29	0	0	0	0	0	0
3/21/2025 13:59	24102	EHAZ_T1	2	1	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
3/21/2025 13:59	24101	EHAZ_T1	36	26	-10	1.07	0.67	-0.4	0	0	0	0	0	0	0	0
3/21/2025 13:59	52404	GRPA_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/21/2025 13:59	52403	GRPA_T2	246	265	19	0.65	0.63	-0.02	0	0	0	0	0	0	0	0
3/21/2025 14:00	63303	GREE_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/21/2025 14:00	27504	WEIS_T1	0	2	2	0	0.2	0.2	0.4	0.4	0	0	0	0	0	0
3/21/2025 14:00	63305	GREE_T1	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
3/21/2025 14:00	63304	GREE_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/21/2025 14:00	63306	GREE_T1	5	4	-1	0.34	0.43	0.09	0	0	0	0	0	0	0	0
3/21/2025 14:00	27501	WEIS_T1	1	2	1	0.6	0.6	0	0	0	0	0	0	0	0	0
3/21/2025 14:00	41602	CLEV_T1	3	5	2	0.73	0.68	-0.05	0	0	0	0	0	0	0	0
3/21/2025 14:00	41601	CLEV_T1	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
3/21/2025 14:00	63302	GREE_T1	1	1	0	0.4	0.5	0.1	0.64	0.56	0	0	0	0	0	0
3/21/2025 14:01	41601	CLEV_T1	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
3/21/2025 14:01	41602	CLEV_T1	3	5	2	0.73	0.68	-0.05	0	0	0	0	0	0	0	0
3/21/2025 14:03	63306	GREE_T1	5	4	-1	0.34	0.43	0.09	0	0	0	0	0	0	0	0
3/21/2025 14:03	63302	GREE_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/21/2025 14:03	63305	GREE_T1	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
3/21/2025 14:03	61702	ELIZ_T2	5	6	1	1.06	0.95	-0.11	-0.73	-0.75	1	1	0	300	300	0
3/21/2025 14:03	61704	ELIZ_T2	6	4	-2	0.37	0.2	-0.17	0	0	0	0	0	0	0	0
3/21/2025 14:03	63304	GREE_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/21/2025 14:03	63303	GREE_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/21/2025 14:04	17401	FOHI_T1	0	0	0	0	0	0	-1.02	-1.04	0	0	0	0	0	0
3/21/2025 14:04	63306	GREE_T1	5	4	-1	0.34	0.43	0.09	-2.35	-2.42	0	0	0	0	0	0
3/21/2025 14:04	63304	GREE_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/21/2025 14:04	21606	EYNO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 14:04	63302	GREE_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/21/2025 14:04	63303	GREE_T1	1	1	0	0.5	0.8	0.3	0	0	0	0	0	0	0	0
3/21/2025 14:04	63305	GREE_T1	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
3/21/2025 14:05	63305	GREE_T1	0	5	5	0	0.18	0.18	0	0	0	0	0	0	0	0
3/21/2025 14:05	63304	GREE_T1	1	2	1	0.2	0.2	0	0	0	0	0	0	0	0	0
3/21/2025 14:05	63306	GREE_T1	5	4	-1	0.34	0.43	0.09	-1.18	-1.21	0	0	0	0	0	0
3/21/2025 14:05	63302	GREE_T1	1	1	0	0.4	0.5	0.1	0	0	0	0	0	0	0	0
3/21/2025 14:05	63303	GREE_T1	1	1	0	0.5	0.8	0.3	-0.4	-0.23	2	2	0	1800	1800	0
3/21/2025 14:09	63602	LETO_T1	9	20	11	0.46	0.28	-0.18	-0.55	-0.61	0	0	0	0	0	0
3/21/2025 14:09	63801	HEMP_T1	3	6	3	0.17	0.25	0.08	0	0	0	0	0	0	0	0
3/21/2025 14:09	63802	HEMP_T1	0	0	0	0	0	0	0.19	0.09	0	0	0	0	0	0
3/21/2025 14:09	63804	HEMP_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
3/21/2025 14:09	63601	LETO_T1	3	3	0	0.13	0.23	0.1	0	0	0	0	0	0	0	0
3/21/2025 14:09	63803	HEMP_T1	3	5	2	0.43	0.34	-0.09	0	0	0	0	0	0	0	0
3/21/2025 14:11	65702	RVIL_T2	15	18	3	0.35	0.34	-0.01	-1.7	-1.64	0	0	0	0	0	0
3/21/2025 14:12	16902	MECK_T1	2	5	3	0.4	0.26	-0.14	0.07	0.08	0	0	0	0	0	0
3/21/2025 14:12	16901	MECK_T1	2	3	1	0.1	0.27	0.17	0	0	0	0	0	0	0	0
3/21/2025 14:12	65702	RVIL_T2	15	18	3	0.35	0.34	-0.01	-1.7	-1.64	0	0	0	0	0	0
3/21/2025 14:13	65702	RVIL_T2	15	18	3	0.35	0.34	-0.01	-1.7	-1.64	0	0	0	0	0	0
3/21/2025 14:13	57201	ROSS_T1	115	198	83	0.29	0.31	0.02	0	0	0	0	0	0	0	0
3/21/2025 14:13	57203	ROSS_T1	7	12	5	0.3	0.35	0.05	0	0	0	0	0	0	0	0
3/21/2025 14:13	57205	ROSS_T1	13	21	8	0.89	0.65	-0.24	0	0	0	0	0	0	0	0
3/21/2025 14:14	65702	RVIL_T2	15	18	3	0.35	0.34	-0.01	0	0	0	0	0	0	0	0
3/21/2025 14:14	41602	CLEV_T1	3	5	2	0.73	0.68	-0.05	0	0	0	0	0	0	0	0
3/21/2025 14:14	64802	MILL_T2	0	1	1	0	0.1	0.1	0.14	0.16	0	0	0	0	0	0
3/21/2025 14:14	41601	CLEV_T1	2	2	0	0.85	0.95	0.1	0	0	0	0	0	0	0	0
3/21/2025 14:14	27201	YATE_T1	10	10	0	6.39	6.03	-0.36	-0.48	-0.48	0	0	0	0	0	0
3/21/2025 14:14	64903	MILL_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/21/2025 14:15	65702	RVIL_T2	14	23	9	0.38	0.32	-0.06	-0.85	-0.82	0	0	0	0	0	0
3/21/2025 14:16	65702	RVIL_T2	14	23	9	0.38	0.32	-0.06	-0.85	-0.82	0	0	0	0	0	0
3/21/2025 14:16	41802	GOCI_T2	18	20	2	0.22	0.19	-0.03	0	0	0	0	0	0	0	0
3/21/2025 14:16	41801	GOCI_T2	362	361	-1	1.2	1.06	-0.14	0	0	0	0	0	0	0	0
3/21/2025 14:16	41602	CLEV_T1	3	5	2	0.73	0.74	0.01	0	0	0	0	0	0	0	0
3/21/2025 14:16	41601	CLEV_T1	2	2	0	0.75	0.95	0.2	0	0	0	0	0	0	0	0
3/21/2025 14:17	57203	ROSS_T1	10	18	8	0.32	0.29	-0.03	0	0	0	0	0	0	0	0
3/21/2025 14:17	57205	ROSS_T1	20	29	9	0.65	0.55	-0.1	0	0	0	0	0	0	0	0
3/21/2025 14:17	57201	ROSS_T1	175	227	52	0.31	0.31	0	0	0	0	0	0	0	0	0
3/21/2025 14:17	41801	GOCI_T2	362	361	-1	1.2	1.06	-0.14	0	0	0	0	0	0	0	0
3/21/2025 14:17	41802	GOCI_T2	18	20	2	0.22	0.19	-0.03	0	0	0	0	0	0	0	0
3/21/2025 14:18	11302	EMMA_T1	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
3/21/2025 14:18	11303	EMMA_T1	12	11	-1	0.8	0.83	0.03	0	0	0	0	0	0	0	0
3/21/2025 14:18	11301	EMMA_T1	6	4	-2	0.35	0.43	0.08	0	0	0	0	0	0	0	0
3/21/2025 14:19	41801	GOCI_T2	362	361	-1	1.2	1.06	-0.14	0	0	0	0	0	0	0	0
3/21/2025 14:19	41802	GOCI_T2	18	20	2	0.22	0.19	-0.03	0	0	0	0	0	0	0	0
3/21/2025 14:20	41802	GOCI_T2	18	20	2	0.22	0.19	-0.03	0	0	0	0	0	0	0	0
3/21/2025 14:20	41801	GOCI_T2	362	361	-1	1.2	1.06	-0.14	0	0	0	0	0	0	0	0
3/21/2025 14:21	41801	GOCI_T2	362	361	-1	1.2	1.06	-0.14	0	0	0	0	0	0	0	0
3/21/2025 14:21	41802	GOCI_T2	18	20	2	0.22	0.19	-0.03	0	0	0	0	0	0	0	0
3/21/2025 14:22	42902	MIDD_T2	12	15	3	0.67	0.74	0.07	0	0	0	0	0	0	0	0
3/21/2025 14:22	42903	MIDD_T2	3	3	0	0.57	0.87	0.3	0	0.08	0	0	0	0	0	0
3/21/2025 14:24	57401	SPAN_T1	4	3	-1	1	1	0	0	0	0	0	0	0	0	0
3/21/2025 14:24	57403	SPAN_T1	18	26	8	0.54	0.5	-0.04	0	0	0	0	0	0	0	0
3/21/2025 14:25	67902	WNHO_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/21/2025 14:25	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 14:26	21704	SUBU_T1	2	2	0	0.2	0.15	-0.05	-2.44	-2.42	2	2	0	2400	2400	0
3/21/2025 14:26	21705	SUBU_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
3/21/2025 14:26	21702	SUBU_T1	56	90	34	0.22	0.22	0	0	0	0	0	0	0	0	0
3/21/2025 14:26	21703	SUBU_T1	0	0	0	0	0	0	0.41	0.4	0	0	0	0	0	0
3/21/2025 14:26	21701	SUBU_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
3/21/2025 14:27	27502	WEIS_T2	7	7	0	0.23	0.47	0.24	0	0	0	0	0	0	0	0
3/21/2025 14:27	21705	SUBU_T1	1	1	0	5.7	5.6	-0.1	0	0	0	0	0	0	0	0
3/21/2025 14:27	21701	SUBU_T1	1	1	0	6.3	6.2	-0.1	0	0	0	0	0	0	0	0
3/21/2025 14:27	27503	WEIS_T2	102	143	41	0.24	0.32	0.08	0	0	0	0	0	0	0	0
3/21/2025 14:27	21702	SUBU_T1	56	90	34	0.22	0.22	0	0	0	0	0	0	0	0	0
3/21/2025 14:27	21704	SUBU_T1	2	2	0	0.2	0.15	-0.05	0	0	0	0	0	0	0	0
3/21/2025 14:27	17802	GILB_T1	4	5	1	0.68	0.64	-0.04	0.08	0.04	0	0	0	0	0	0
3/21/2025 14:32	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 14:33	44802	EDAN_T2	1	1	0	0.2	0.1	-0.1	-0.96	-0.97	0	0	0	0	0	0
3/21/2025 14:33	44801	EDAN_T2	8	8	0	0.6	0.66	0.06	0	0	0	0	0	0	0	0
3/21/2025 14:33	22601	KIMB_T1	2	3	1	0.7	0.47	-0.23	0.25	0.26	0	0	0	0	0	0
3/21/2025 14:33	22602	KIMB_T1	3	3	0	0.63	0.73	0.1	0	0	0	0	0	0	0	0
3/21/2025 14:34	44801	EDAN_T2	8	8	0	0.6	0.66	0.06	0	0	0	0	0	0	0	0
3/21/2025 14:34	44802	EDAN_T2	1	1	0	0.2	0.1	-0.1	-0.96	-0.97	0	0	0	0	0	0
3/21/2025 14:36	11203	ELHE_T1	0	0	0	0	0	0	0.74	0.8	0	0	0	0	0	0
3/21/2025 14:36	41202	KENM_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/21/2025 14:36	41204	KENM_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
3/21/2025 14:37	63501	HEID_TBK1-2	5	4	-1	0.44	0.6	0.16	0.68	0.69	0	0	0	0	0	0
3/21/2025 14:37	47901	HRDG_T1	1	1	0	0.4	0	-0.4	2.01	1.78	0	0	0	0	0	0
3/21/2025 14:38	41204	KENM_T2	2	2	0	0.45	0.5	0.05	0	0	0	0	0	0	0	0
3/21/2025 14:38	41202	KENM_T2	1	2	1	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/21/2025 14:39	63802	HEMP_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
3/21/2025 14:39	63803	HEMP_T1	4	10	6	0.35	0.32	-0.03	0.05	0.06	0	0	0	0	0	0
3/21/2025 14:39	63801	HEMP_T1	4	15	11	0.33	0.37	0.04	0	0	0	0	0	0	0	0
3/21/2025 14:39	63804	HEMP_T1	1	1	0	6.2	5.9	-0.3	0	0	0	0	0	0	0	0
3/21/2025 14:40	63802	HEMP_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
3/21/2025 14:40	63804	HEMP_T1	1	1	0	6.2	5.9	-0.3	0	0	0	0	0	0	0	0
3/21/2025 14:40	63803	HEMP_T1	4	10	6	0.35	0.32	-0.03	0.05	0.06	0	0	0	0	0	0
3/21/2025 14:40	63801	HEMP_T1	4	15	11	0.33	0.37	0.04	0	0	0	0	0	0	0	0
3/21/2025 14:43	44701	MUNC_T2	3	6	3	0.47	0.43	-0.04	-1.28	-1.29	0	0	0	0	0	0
3/21/2025 14:43	47101	MARL_T1	0	0	0	0	0	0	-1.21	-1.21	0	0	0	0	0	0
3/21/2025 14:44	63804	HEMP_T1	1	1	0	6.2	5.9	-0.3	0	0	0	0	0	0	0	0
3/21/2025 14:44	44701	MUNC_T2	3	6	3	0.47	0.43	-0.04	0	0	0	0	0	0	0	0
3/21/2025 14:44	63802	HEMP_T1	0	3	3	0	0.13	0.13	0	0	0	0	0	0	0	0
3/21/2025 14:44	63803	HEMP_T1	4	10	6	0.35	0.32	-0.03	0.05	0.06	0	0	0	0	0	0
3/21/2025 14:44	63801	HEMP_T1	4	15	11	0.33	0.37	0.04	0	0	0	0	0	0	0	0
3/21/2025 14:46	21403	EXET_T2	1	1	0	1	0.4	-0.6	-1.33	-1.38	0	0	0	0	0	0
3/21/2025 14:46	21402	EXET_T2	7	2	-5	0.19	0.1	-0.09	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/21/2025 14:49	41301	FISH_T1	4	15	11	1.7	0.75	-0.95	-0.27	-0.28	0	0	0	0	0	0
3/21/2025 14:49	41305	FISH_T1	1	1	0	0.2	0.6	0.4	0	0	0	0	0	0	0	0
3/21/2025 14:52	12803	MICK_T1	3	3	0	0.27	0.37	0.1	0	0	0	0	0	0	0	0
3/21/2025 14:52	12806	MICK_T1	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/21/2025 14:52	12801	MICK_T1	1	2	1	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
3/21/2025 14:52	12807	MICK_T1	3	3	0	0.57	0.7	0.13	0	0	0	0	0	0	0	0
3/21/2025 14:52	12802	MICK_T1	48	71	23	0.18	0.29	0.11	0	0	0	0	0	0	0	0
3/21/2025 14:53	12801	MICK_T1	1	2	1	0.8	0.55	-0.25	-0.24	-0.19	1	1	0	600	600	0
3/21/2025 14:53	12807	MICK_T1	3	3	0	0.57	0.7	0.13	0	0	0	0	0	0	0	0
3/21/2025 14:53	12803	MICK_T1	3	3	0	0.27	0.37	0.1	0	0	0	0	0	0	0	0
3/21/2025 14:53	12802	MICK_T1	48	71	23	0.18	0.29	0.11	0	0	0	0	0	0	0	0
3/21/2025 14:53	12806	MICK_T1	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/21/2025 14:55	12801	MICK_T1	1	2	1	0.8	0.55	-0.25	-0.72	-0.57	3	3	0	1800	1800	0
3/21/2025 14:55	12807	MICK_T1	3	3	0	0.57	0.7	0.13	0	0	0	0	0	0	0	0
3/21/2025 14:55	12802	MICK_T1	48	71	23	0.18	0.29	0.11	0	0	0	0	0	0	0	0
3/21/2025 14:55	12806	MICK_T1	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/21/2025 14:55	12803	MICK_T1	3	3	0	0.27	0.37	0.1	0	0	0	0	0	0	0	0
3/21/2025 14:56	13303	ORVI_T1	3	5	2	0.7	0.56	-0.14	1	0.93	0	0	0	0	0	0
3/21/2025 14:56	12806	MICK_T1	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/21/2025 14:56	12801	MICK_T1	1	2	1	0.8	0.55	-0.25	-0.24	-0.19	1	1	0	600	600	0
3/21/2025 14:56	12803	MICK_T1	3	3	0	0.27	0.37	0.1	0	0	0	0	0	0	0	0
3/21/2025 14:56	12802	MICK_T1	48	71	23	0.18	0.29	0.11	0	0	0	0	0	0	0	0
3/21/2025 14:56	12807	MICK_T1	3	3	0	0.57	0.7	0.13	0	0	0	0	0	0	0	0
3/21/2025 14:57	12807	MICK_T1	3	3	0	0.57	0.7	0.13	0	0	0	0	0	0	0	0
3/21/2025 14:57	12803	MICK_T1	3	3	0	0.27	0.37	0.1	0	0	0	0	0	0	0	0
3/21/2025 14:57	12802	MICK_T1	48	71	23	0.18	0.29	0.11	-2.5	-2.54	0	0	0	0	0	0
3/21/2025 14:57	12801	MICK_T1	1	2	1	0.8	0.55	-0.25	0	0	0	0	0	0	0	0
3/21/2025 14:57	12806	MICK_T1	2	3	1	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/21/2025 14:58	13303	ORVI_T1	3	5	2	0.7	0.56	-0.14	1	0.93	0	0	0	0	0	0
3/21/2025 15:01	41602	CLEV_T1	7	6	-1	0.66	0.48	-0.18	0	0	0	0	0	0	0	0
3/21/2025 15:01	41601	CLEV_T1	2	2	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/21/2025 15:04	41802	GOCI_T2	25	25	0	0.34	0.36	0.02	0	0	0	0	0	0	0	0
3/21/2025 15:04	41801	GOCI_T2	361	360	-1	1.05	1.22	0.17	0	0	0	0	0	0	0	0
3/21/2025 15:09	11203	ELHE_T1	0	0	0	0	0	0	0.83	0.76	0	0	0	0	0	0
3/21/2025 15:13	45902	AUBU_T1	3	3	0	0.37	0.4	0.03	0	0	1	1	0	600	600	0
3/21/2025 15:13	57203	ROSS_T1	18	169	151	0.25	0.13	-0.12	0	0	0	0	0	0	0	0
3/21/2025 15:13	57205	ROSS_T1	23	62	39	0.62	0.33	-0.29	0.08	0.06	0	0	0	0	0	0
3/21/2025 15:13	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 15:13	57201	ROSS_T1	218	292	74	0.32	0.33	0.01	0	0	0	0	0	0	0	0
3/21/2025 15:14	57203	ROSS_T1	18	169	151	0.25	0.13	-0.12	0	0	0	0	0	0	0	0
3/21/2025 15:14	45902	AUBU_T1	3	3	0	0.37	0.4	0.03	0	0	1	1	0	600	600	0
3/21/2025 15:14	57205	ROSS_T1	23	62	39	0.62	0.33	-0.29	0.08	0.06	0	0	0	0	0	0
3/21/2025 15:14	57201	ROSS_T1	218	292	74	0.32	0.33	0.01	0	0	0	0	0	0	0	0
3/21/2025 15:15	45902	AUBU_T1	3	5	2	0.4	0.38	-0.02	0	0	3	3	0	1800	1800	0
3/21/2025 15:19	41802	GOCI_T2	25	30	5	0.35	0.3	-0.05	0	0	0	0	0	0	0	0
3/21/2025 15:19	41801	GOCI_T2	349	362	13	1.22	1.15	-0.07	0	0	0	0	0	0	0	0
3/21/2025 15:22	63801	HEMP_T1	6	4	-2	0.42	0.4	-0.02	0	0	0	0	0	0	0	0
3/21/2025 15:22	63803	HEMP_T1	9	6	-3	0.29	0.38	0.09	0	0	0	0	0	0	0	0
3/21/2025 15:22	63804	HEMP_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
3/21/2025 15:22	63802	HEMP_T1	0	0	0	0	0	0	0.14	0.21	0	0	0	0	0	0
3/21/2025 15:24	40101	HUNT_T2	1	15	14	0.2	0.23	0.03	-1.83	-1.82	0	0	0	0	0	0
3/21/2025 15:25	52402	GRPA_T2	19	15	-4	0.58	0.69	0.11	0	0	0	0	0	0	0	0
3/21/2025 15:25	52404	GRPA_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/21/2025 15:25	52401	GRPA_T2	33	28	-5	0.2	0.21	0.01	0	0	0	0	0	0	0	0
3/21/2025 15:25	52403	GRPA_T2	148	121	-27	0.42	0.41	-0.01	0	0	0	0	0	0	0	0
3/21/2025 15:26	40101	HUNT_T2	1	15	14	0.2	0.23	0.03	-1.83	-1.82	0	0	0	0	0	0
3/21/2025 15:29	63804	HEMP_T1	1	1	0	5.7	5.5	-0.2	0	0	0	0	0	0	0	0
3/21/2025 15:29	43802	SWIL_T1	1	4	3	0.8	0.53	-0.27	-0.29	-0.29	1	1	0	600	600	0
3/21/2025 15:29	63803	HEMP_T1	9	6	-3	0.29	0.38	0.09	0	0	0	0	0	0	0	0
3/21/2025 15:29	43801	SWIL_T1	10	30	20	0.66	0.42	-0.24	0	0	0	0	0	0	0	0
3/21/2025 15:29	63801	HEMP_T1	6	4	-2	0.42	0.4	-0.02	0	0.15	0	0	0	0	0	0
3/21/2025 15:30	52401	GRPA_T2	26	7	-19	0.21	0.37	0.16	0	0	0	0	0	0	0	0
3/21/2025 15:30	52403	GRPA_T2	121	41	-80	0.41	0.69	0.28	0	0	0	0	0	0	0	0
3/21/2025 15:30	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 15:30	52402	GRPA_T2	15	15	0	0.63	0.67	0.04	0	0	0	0	0	0	0	0
3/21/2025 15:30	52404	GRPA_T2	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/21/2025 15:30	45902	AUBU_T1	3	5	2	0.27	0.56	0.29	0	0	1	1	0	600	600	0
3/21/2025 15:31	61701	ELIZ_T1	2	2	0	3.3	3.45	0.15	0	0	0	0	0	0	0	0
3/21/2025 15:31	45902	AUBU_T1	3	5	2	0.27	0.56	0.29	0	0	1	1	0	600	600	0
3/21/2025 15:31	61703	ELIZ_T1	6	11	5	0.43	0.32	-0.11	-3.92	-3.94	2	2	0	1800	1800	0
3/21/2025 15:31	43802	SWIL_T1	2	4	2	0.85	0.53	-0.32	-0.29	-0.29	1	1	0	600	600	0
3/21/2025 15:31	43801	SWIL_T1	16	33	17	0.49	0.39	-0.1	0	0	0	0	0	0	0	0
3/21/2025 15:35	23202	HIRU_T2	20	72	52	0.22	0.23	0.01	0.13	0.15	0	0	0	0	0	0
3/21/2025 15:35	23201	HIHI_T2	85	177	92	0.25	0.35	0.1	0	0	0	0	0	0	0	0
3/21/2025 15:35	23203	HIRU_T2	8	116	108	0.2	0.21	0.01	0	0	0	0	0	0	0	0
3/21/2025 15:35	41802	GOCI_T2	23	29	6	0.3	0.3	0	0	0	0	0	0	0	0	0
3/21/2025 15:35	41801	GOCI_T2	354	359	5	1.08	1.14	0.06	0	0	0	0	0	0	0	0
3/21/2025 15:39	16102	BING_T2	10	2	-8	0.46	0.5	0.04	0	0	0	0	0	0	0	0
3/21/2025 15:39	16101	BING_T2	3	1	-2	0.53	0.5	-0.03	0.24	0.24	0	0	0	0	0	0
3/21/2025 15:39	16103	BING_T2	2	2	0	0.9	0.65	-0.25	0	0	0	0	0	0	0	0
3/21/2025 15:40	17803	GILB_T2	16	19	3	0.28	0.33	0.05	0	0	0	0	0	0	0	0
3/21/2025 15:40	17804	GILB_T2	4	7	3	0.68	0.73	0.05	0	0	0	0	0	0	0	0
3/21/2025 15:40	17805	GILB_T2	3	4	1	0.37	0.25	-0.12	0	0	0	0	0	0	0	0
3/21/2025 15:43	46504	LOHA_T1	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/21/2025 15:43	46503	LOHA_T1	1	1	0	0.4	0.6	0.2	-0.63	-0.64	0	0	0	0	0	0
3/21/2025 15:43	46506	LOHA_T1	9	9	0	2.02	2.41	0.39	0	0	0	0	0	0	0	0
3/21/2025 15:44	45501	DERR_T2	12	4	-8	0.52	0.75	0.23	0.02	0.84	2	1	-1	1800	600	-1200
3/21/2025 15:46	10903	COOP_T2	22	13	-9	0.28	0.29	0.01	-0.38	-0.42	1	1	0	600	600	0
3/21/2025 15:48	42701	AUGU_T1	3	3	0	0.43	0.63	0.2	0	0	2	2	0	1800	1800	0
3/21/2025 15:51	53901	HALI_T2	2	3	1	0.85	0.67	-0.18	-3.21	-3.12	0	0	0	0	0	0
3/21/2025 15:51	41801	GOCI_T2	359	350	-9	1.13	1.07	-0.06	0	0	0	0	0	0	0	0
3/21/2025 15:51	41802	GOCI_T2	28	27	-1	0.29	0.34	0.05	0	0	0	0	0	0	0	0
3/21/2025 15:51	53902	HALI_T2	3	2	-1	2.3	3.1	0.8	0	0	0	0	0	0	0	0
3/21/2025 15:51	53903	HALI_T2	7	7	0	0.9	0.81	-0.09	0	0	0	0	0	0	0	0
3/21/2025 15:53	53902	HALI_T2	3	2	-1	2.3	3.1	0.8	0	0	0	0	0	0	0	0
3/21/2025 15:53	53901	HALI_T2	2	3	1	0.85	0.67	-0.18	-1.04	-1.02	0	0	0	0	0	0
3/21/2025 15:53	53903	HALI_T2	7	7	0	0.9	0.81	-0.09	0	0	0	0	0	0	0	0
3/21/2025 15:55	46506	LOHA_T1	9	10	1	2.39	2.11	-0.28	0	0	0	0	0	0	0	0
3/21/2025 15:55	46504	LOHA_T1	2	2	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/21/2025 15:55	46503	LOHA_T1	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/21/2025 15:57	64202	KINZ_T1	3	3	0	0.33	0.4	0.07	0.66	0.61	0	0	0	0	0	0
3/21/2025 15:57	63801	HEMP_T1	4	5	1	0.4	0.64	0.24	0	0	0	0	0	0	0	0
3/21/2025 15:57	42503	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 15:57	42501	ALTA_T2	1	1	0	0.2	0.3	0.1	0.59	0.63	0	0	0	0	0	0
3/21/2025 15:57	63802	HEMP_T1	0	0	0	0	0	0	0.15	0.16	0	0	0	0	0	0
3/21/2025 15:57	63803	HEMP_T1	5	6	1	0.42	0.33	-0.09	0	0	0	0	0	0	0	0
3/21/2025 15:57	63804	HEMP_T1	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
3/21/2025 15:57	64204	KINZ_T1	70	71	1	0.69	0.69	0	0	0	0	0	0	0	0	0
3/21/2025 15:57	42504	ALTA_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 15:57	64201	KINZ_T1	0	1	1	0	0.1	0.1	-0.03	-0.25	3	3	0	1500	1500	0
3/21/2025 15:59	13202	PALM_T2	3	1	-2	0.53	0.7	0.17	0	0	0	0	0	0	0	0
3/21/2025 15:59	43302	WATS_T2	4	4	0	0.2	0.68	0.48	-0.63	-0.61	2	2	0	1800	1800	0
3/21/2025 15:59	43301	WATS_T2	1	1	0	0.8	0.3	-0.5	0	0	0	0	0	0	0	0
3/21/2025 16:00	44802	EDAN_T2	0	0	0	0	0	0	-0.93	-0.96	0	0	0	0	0	0
3/21/2025 16:00	59402	RFLD_T2	2	4	2	0.45	0.35	-0.1	0	0	0	0	0	0	0	0
3/21/2025 16:00	44801	EDAN_T2	3	4	1	0.37	0.35	-0.02	0	0	0	0	0	0	0	0
3/21/2025 16:01	43301	WATS_T2	1	1	0	0.3	0.2	-0.1	0.16	0.16	0	0	0	0	0	0
3/21/2025 16:01	45902	AUBU_T1	5	3	-2	0.56	0.3	-0.26	0	0	1	1	0	600	600	0
3/21/2025 16:01	28102	TWLA_T2	1	13	12	0.1	0.32	0.22	0.16	0.17	0	0	0	0	0	0
3/21/2025 16:01	45901	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 16:01	43302	WATS_T2	4	4	0	0.65	0.68	0.03	0	0	0	0	0	0	0	0
3/21/2025 16:02	45902	AUBU_T1	5	3	-2	0.56	0.3	-0.26	0	0	0	0	0	0	0	0
3/21/2025 16:03	43302	WATS_T2	4	4	0	0.65	0.68	0.03	-0.63	-0.61	2	2	0	1800	1800	0
3/21/2025 16:03	43301	WATS_T2	1	1	0	0.3	0.2	-0.1	0	0	0	0	0	0	0	0
3/21/2025 16:07	52403	GRPA_T2	38	192	154	0.54	0.44	-0.1	0	0	0	0	0	0	0	0
3/21/2025 16:07	52401	GRPA_T2	4	58	54	0.45	0.19	-0.26	0	0	0	0	0	0	0	0
3/21/2025 16:07	52404	GRPA_T2	1	1	0	0.4	0.6	0.2	0	0	0	0	0	0	0	0
3/21/2025 16:07	52402	GRPA_T2	11	13	2	0.62	0.67	0.05	0	0	0	0	0	0	0	0
3/21/2025 16:10	64902	MILL_T2	0	0	0	0	0	0	0.19	0.13	0	0	0	0	0	0
3/21/2025 16:10	52006	LING_T2	3	3	0	0.87	1.1	0.23	0	0	0	0	0	0	0	0
3/21/2025 16:10	52004	LING_T2	10	9	-1	1.93	2.14	0.21	0	0	0	0	0	0	0	0
3/21/2025 16:10	64903	MILL_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 16:10	52002	LING_T2	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
3/21/2025 16:11	44201	POIN_T1	83	86	3	0.26	0.4	0.14	-2.31	-2.39	1	1	0	1200	1200	0
3/21/2025 16:12	52004	LING_T2	10	9	-1	1.93	2.14	0.21	0.24	0.19	0	0	0	0	0	0
3/21/2025 16:12	44201	POIN_T1	83	86	3	0.26	0.4	0.14	-6.94	-7.17	3	3	0	3600	3600	0
3/21/2025 16:12	52006	LING_T2	3	3	0	0.87	1.1	0.23	0	0	0	0	0	0	0	0
3/21/2025 16:12	52003	LING_T1	4	5	1	0.33	0.28	-0.05	0	0	0	0	0	0	0	0
3/21/2025 16:12	52001	LING_T1	0	0	0	0	0	0	0.14	0.14	0	0	0	0	0	0
3/21/2025 16:12	52002	LING_T2	2	2	0	0.7	0.85	0.15	0	0	0	0	0	0	0	0
3/21/2025 16:13	44601	SALE_T2	0	1	1	0	0.4	0.4	-0.03	-0.23	0	0	0	0	0	0
3/21/2025 16:13	44201	POIN_T1	83	86	3	0.26	0.4	0.14	-2.31	-2.39	1	1	0	1200	1200	0
3/21/2025 16:13	10602	BLGL_T2	2	4	2	0.45	0.78	0.33	0.08	0.05	0	0	0	0	0	0
3/21/2025 16:14	43301	WATS_T2	1	1	0	0.3	0.2	-0.1	0.16	0.14	0	0	0	0	0	0
3/21/2025 16:14	44202	POIN_T2	1	1	0	0.5	0.4	-0.1	-0.88	-0.69	1	1	0	1200	1200	0
3/21/2025 16:14	43302	WATS_T2	4	4	0	0.65	0.68	0.03	0	0	0	0	0	0	0	0
3/21/2025 16:15	43302	WATS_T2	4	4	0	0.68	0.45	-0.23	0	0	0	0	0	0	0	0
3/21/2025 16:15	43301	WATS_T2	0	1	1	0	0.5	0.5	0.16	0.14	0	0	0	0	0	0
3/21/2025 16:15	44203	POIN_T2	0	0	0	0	0	0	-0.18	-0.33	1	1	0	900	900	0
3/21/2025 16:15	44202	POIN_T2	1	0	-1	0.4	0	-0.4	-0.88	-0.69	1	1	0	1200	1200	0
3/21/2025 16:16	44201	POIN_T1	80	83	3	0.38	0.39	0.01	-4.63	-4.78	2	2	0	2400	2400	0
3/21/2025 16:16	44202	POIN_T2	1	0	-1	0.4	0	-0.4	-0.88	-0.69	1	1	0	1200	1200	0
3/21/2025 16:17	40302	TAMA_T3	55	42	-13	0.56	0.56	0	0	0	0	0	0	0	0	0
3/21/2025 16:17	40303	TAMA_T3	14	11	-3	0.5	0.43	-0.07	0	0	0	0	0	0	0	0
3/21/2025 16:17	40301	TAMA_T3	67	16	-51	0.32	0.49	0.17	1.57	1.8	1	1	0	1200	1200	0
3/21/2025 16:18	52402	GRPA_T2	13	11	-2	0.67	0.49	-0.18	0	0	0	0	0	0	0	0
3/21/2025 16:18	52401	GRPA_T2	58	3	-55	0.19	0.3	0.11	0	0	0	0	0	0	0	0
3/21/2025 16:18	43301	WATS_T2	0	1	1	0	0.5	0.5	0.32	0.28	0	0	0	0	0	0
3/21/2025 16:18	52403	GRPA_T2	192	25	-167	0.44	0.59	0.15	0	0	0	0	0	0	0	0
3/21/2025 16:18	52404	GRPA_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/21/2025 16:18	43302	WATS_T2	4	4	0	0.68	0.45	-0.23	0	0	0	0	0	0	0	0
3/21/2025 16:19	20601	GRWO_T2	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
3/21/2025 16:19	20602	GRWO_T2	60	44	-16	0.32	0.2	-0.12	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/21/2025 16:19	20603	GRWO_T2	417	290	-127	0.46	0.41	-0.05	0	0	0	0	0	0	0	0
3/21/2025 16:20	63501	HEID_TBK1-2	6	4	-2	0.53	0.68	0.15	0.57	0.53	0	0	0	0	0	0
3/21/2025 16:21	20603	GRWO_T2	417	290	-127	0.46	0.41	-0.05	0	0	0	0	0	0	0	0
3/21/2025 16:21	20601	GRWO_T2	0	0	0	0	0	0	0.78	0.78	0	0	0	0	0	0
3/21/2025 16:21	20602	GRWO_T2	60	44	-16	0.32	0.2	-0.12	0	0	0	0	0	0	0	0
3/21/2025 16:22	20602	GRWO_T2	60	44	-16	0.32	0.2	-0.12	0	0	0	0	0	0	0	0
3/21/2025 16:22	20603	GRWO_T2	417	290	-127	0.46	0.41	-0.05	0.37	0.35	0	0	0	0	0	0
3/21/2025 16:25	63501	HEID_TBK1-2	6	4	-2	0.53	0.68	0.15	0.53	0.45	0	0	0	0	0	0
3/21/2025 16:28	58202	NEWV_T1	12	11	-1	0.75	0.55	-0.2	0.09	0.07	0	0	0	0	0	0
3/21/2025 16:28	58201	NEWV_T1	1	1	0	0.5	0.3	-0.2	0	0	0	0	0	0	0	0
3/21/2025 16:29	67401	WAKE_T2	96	74	-22	0.29	0.28	-0.01	-1.17	-1.2	0	0	0	0	0	0
3/21/2025 16:29	67402	WAKE_T2	2	3	1	0.5	0.33	-0.17	0	0	0	0	0	0	0	0
3/21/2025 16:30	67402	WAKE_T2	2	3	1	0.45	0.27	-0.18	0.16	0.14	0	0	0	0	0	0
3/21/2025 16:30	67603	WARW_T1	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/21/2025 16:30	67605	WARW_T1	52	42	-10	0.66	0.71	0.05	0	0	0	0	0	0	0	0
3/21/2025 16:30	67401	WAKE_T2	59	78	19	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
3/21/2025 16:31	60101	COCA_T1	3	2	-1	0.43	0.4	-0.03	0.24	0.21	0	0	0	0	0	0
3/21/2025 16:31	60102	COCA_T1	33	23	-10	0.12	0.11	-0.01	-0.98	-1.02	4	4	0	2400	2400	0
3/21/2025 16:31	67401	WAKE_T2	59	78	19	0.28	0.27	-0.01	0	0	0	0	0	0	0	0
3/21/2025 16:31	67402	WAKE_T2	2	3	1	0.45	0.27	-0.18	0.16	0.14	0	0	0	0	0	0
3/21/2025 16:33	60101	COCA_T1	3	2	-1	0.43	0.4	-0.03	0.24	0.21	0	0	0	0	0	0
3/21/2025 16:33	41504	FAIR_T2	0	0	0	0	0	0	0.36	0.36	0	0	0	0	0	0
3/21/2025 16:33	60102	COCA_T1	33	23	-10	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
3/21/2025 16:34	16902	MECK_T1	1	0	-1	0.2	0	-0.2	0.07	0.07	0	0	0	0	0	0
3/21/2025 16:34	16901	MECK_T1	2	1	-1	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/21/2025 16:34	60102	COCA_T1	33	23	-10	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
3/21/2025 16:34	60101	COCA_T1	3	2	-1	0.43	0.4	-0.03	0.24	0.21	0	0	0	0	0	0
3/21/2025 16:36	60101	COCA_T1	3	2	-1	0.43	0.4	-0.03	0.21	0.19	0	0	0	0	0	0
3/21/2025 16:36	63302	GREE_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/21/2025 16:36	63304	GREE_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/21/2025 16:36	63303	GREE_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/21/2025 16:36	60102	COCA_T1	33	23	-10	0.12	0.11	-0.01	0	0	0	0	0	0	0	0
3/21/2025 16:36	63305	GREE_T1	9	11	2	0.19	0.24	0.05	-1.5	-1.47	0	0	0	0	0	0
3/21/2025 16:37	63302	GREE_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/21/2025 16:37	63304	GREE_T1	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0	0
3/21/2025 16:37	63305	GREE_T1	9	11	2	0.19	0.24	0.05	-1.5	-1.47	0	0	0	0	0	0
3/21/2025 16:37	63303	GREE_T1	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0	0
3/21/2025 16:39	26604	BROO_T2	4	55	51	0.15	0.19	0.04	0	0	0	0	0	0	0	0
3/21/2025 16:41	13302	ORVI_T2	2	1	-1	1.2	1.9	0.7	1.21	1.25	0	0	0	0	0	0
3/21/2025 16:41	46504	LOHA_T1	2	2	0	0.35	0.65	0.3	0	0	0	0	0	0	0	0
3/21/2025 16:41	46501	LOHA_T1	0	0	0	0	0	0	-0.24	0.07	1	1	0	1200	1200	0
3/21/2025 16:41	46506	LOHA_T1	4	3	-1	4.3	5.83	1.53	0	0	0	0	0	0	0	0
3/21/2025 16:46	65901	SAKR_T2	2	2	0	5.15	5	-0.15	-1.36	-1.38	1	1	0	900	900	0
3/21/2025 16:48	52402	GRPA_T2	6	4	-2	0.6	0.88	0.28	0	0	0	0	0	0	0	0
3/21/2025 16:48	52401	GRPA_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
3/21/2025 16:48	52403	GRPA_T2	21	17	-4	0.6	0.64	0.04	0	0	0	0	0	0	0	0
3/21/2025 16:48	52404	GRPA_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/21/2025 16:53	43402	BENT_T1	93	96	3	0.45	0.48	0.03	-0.93	-0.98	1	1	0	900	900	0
3/21/2025 16:53	43401	BENT_T1	1	8	7	0.1	0.4	0.3	0	0	0	0	0	0	0	0
3/21/2025 16:54	52401	GRPA_T2	2	0	-2	0.25	0	-0.25	0	0	0	0	0	0	0	0
3/21/2025 16:54	52404	GRPA_T2	1	1	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/21/2025 16:54	52403	GRPA_T2	21	17	-4	0.6	0.64	0.04	0	0	0	0	0	0	0	0
3/21/2025 16:54	52402	GRPA_T2	6	4	-2	0.6	0.88	0.28	0	0	0	0	0	0	0	0
3/21/2025 16:57	58202	NEWV_T1	9	10	1	0.43	1.22	0.79	0.08	0.05	0	0	0	0	0	0
3/21/2025 16:57	58201	NEWV_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/21/2025 16:59	58202	NEWV_T1	9	10	1	0.43	1.22	0.79	0.08	0.05	0	0	0	0	0	0
3/21/2025 16:59	58201	NEWV_T1	1	1	0	0.1	0.2	0.1	0	0	0	0	0	0	0	0
3/21/2025 17:00	55002	NEWP_T1	8	8	0	1.19	1.18	-0.01	-0.27	-0.28	0	0	0	0	0	0
3/21/2025 17:00	55001	NEWP_T1	1	1	0	0.4	0.5	0.1	-0.3	-0.33	0	0	0	0	0	0
3/21/2025 17:01	55002	NEWP_T1	8	8	0	1.19	1.18	-0.01	0	0	0	0	0	0	0	0
3/21/2025 17:01	55001	NEWP_T1	1	1	0	0.4	0.5	0.1	-0.6	-0.66	0	0	0	0	0	0
3/21/2025 17:04	52404	GRPA_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/21/2025 17:04	52402	GRPA_T2	4	3	-1	0.85	1.07	0.22	0	0	0	0	0	0	0	0
3/21/2025 17:04	45801	HEGI_T1	0	0	0	0	0	0	-0.5	-0.45	1	1	0	900	900	0
3/21/2025 17:04	52403	GRPA_T2	17	8	-9	0.64	0.51	-0.13	0	0	0	0	0	0	0	0
3/21/2025 17:05	60101	COCA_T1	2	2	0	0.25	0.1	-0.15	0	0	0	0	0	0	0	0
3/21/2025 17:05	60102	COCA_T1	21	46	25	0.11	0.15	0.04	-0.53	-0.65	2	2	0	1200	1200	0
3/21/2025 17:05	15601	NSTR_T2	3	3	0	0.97	0.33	-0.64	0	0	0	0	0	0	0	0
3/21/2025 17:05	15603	NSTR_T2	0	0	0	0	0	0	-0.65	-0.69	0	0	0	0	0	0
3/21/2025 17:06	60102	COCA_T1	21	46	25	0.11	0.15	0.04	0	0	0	0	0	0	0	0
3/21/2025 17:06	60101	COCA_T1	2	2	0	0.25	0.1	-0.15	0.23	0.22	0	0	0	0	0	0
3/21/2025 17:06	10602	BLGL_T2	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0
3/21/2025 17:10	44701	MUNC_T2	40	83	43	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
3/21/2025 17:10	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 17:10	44702	MUNC_T2	1	10	9	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/21/2025 17:11	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 17:11	44701	MUNC_T2	40	83	43	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
3/21/2025 17:11	44702	MUNC_T2	1	10	9	0.1	0.15	0.05	0	0	0	0	0	0	0	0
3/21/2025 17:12	63803	HEMP_T1	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/21/2025 17:12	63804	HEMP_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
3/21/2025 17:12	63801	HEMP_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/21/2025 17:13	63804	HEMP_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
3/21/2025 17:13	63802	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 17:13	63801	HEMP_T1	1	1	0	0.7	0.7	0	-0.14	-0.27	0	0	0	0	0	0
3/21/2025 17:13	63803	HEMP_T1	2	1	-1	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/21/2025 17:14	63803	HEMP_T1	2	1	-1	0.3	0.5	0.2	0.05	0.12	0	0	0	0	0	0
3/21/2025 17:14	63801	HEMP_T1	1	1	0	0.7	0.7	0	0	0	0	0	0	0	0	0
3/21/2025 17:14	63804	HEMP_T1	1	1	0	5.4	5.4	0	0	0	0	0	0	0	0	0
3/21/2025 17:16	16301	ALPA_T1	0	0	0	0	0	0	-0.13	-0.11	0	0	0	0	0	0
3/21/2025 17:18	45501	DERR_T2	0	0	0	0	0	0	0.79	0.8	1	1	0	600	600	0
3/21/2025 17:20	45501	DERR_T2	0	0	0	0	0	0	0.79	0.8	1	1	0	600	600	0
3/21/2025 17:23	41202	KENM_T2	1	1	0	1.1	1	-0.1	0	0	0	0	0	0	0	0
3/21/2025 17:23	41205	KENM_T2	13	0	-13	0.14	0	-0.14	0	0	0	0	0	0	0	0
3/21/2025 17:23	41201	KENM_T2	23	10	-13	0.19	0.1	-0.09	0	0	0	0	0	0	0	0
3/21/2025 17:23	41206	KENM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 17:25	17804	GILB_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
3/21/2025 17:25	17805	GILB_T2	0	0	0	0	0	0	-0.2	-0.19	0	0	0	0	0	0
3/21/2025 17:27	17804	GILB_T2	3	0	-3	0.23	0	-0.23	0	0	0	0	0	0	0	0
3/21/2025 17:27	17805	GILB_T2	0	0	0	0	0	0	-0.4	-0.38	0	0	0	0	0	0
3/21/2025 17:29	44701	MUNC_T2	61	79	18	0.17	0.17	0	-1.46	-1.48	0	0	0	0	0	0
3/21/2025 17:29	44702	MUNC_T2	10	1	-9	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/21/2025 17:33	16302	ALPA_T2	0	0	0	0	0	0	0.52	0.62	0	0	0	0	0	0
3/21/2025 17:36	60101	COCA_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
3/21/2025 17:47	63803	HEMP_T1	0	0	0	0	0	0	0.03	0.06	0	0	0	0	0	0
3/21/2025 17:47	63804	HEMP_T1	1	1	0	5.5	5.5	0	0	0	0	0	0	0	0	0
3/21/2025 18:02	40201	BEGA_T2	9	14	5	0.47	0.31	-0.16	0	0	0	0	0	0	0	0
3/21/2025 18:13	47101	MARL_T1	0	0	0	0	0	0	-1.18	-1.25	0	0	0	0	0	0
3/21/2025 18:13	17802	GILB_T1	0	0	0	0	0	0	0.04	0.05	0	0	0	0	0	0
3/21/2025 18:13	47104	MARL_T1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 18:21	60404	DILL_T2	0	0	0	0	0	0	1.48	1.48	0	0	0	0	0	0
3/21/2025 18:37	12401	MILF_T1	3	0	-3	0.1	0	-0.1	-0.47	-0.44	0	0	0	0	0	0
3/21/2025 18:37	12402	MILF_T1	68	49	-19	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
3/21/2025 18:38	15103	UPHA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 18:38	15104	UPHA_T2	0	0	0	0	0	0	0.32	0.35	0	0	0	0	0	0
3/21/2025 18:38	42504	ALTA_T2	2	1	-1	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/21/2025 18:38	42501	ALTA_T2	0	0	0	0	0	0	0.63	0.64	0	0	0	0	0	0
3/21/2025 18:39	12402	MILF_T1	68	49	-19	0.29	0.26	-0.03	0	0	0	0	0	0	0	0
3/21/2025 18:39	12401	MILF_T1	3	0	-3	0.1	0	-0.1	-0.47	-0.44	0	0	0	0	0	0
3/21/2025 18:42	46602	LAUR_T1	0	0	0	0	0	0	0	-0.77	0	0	0	0	0	0
3/21/2025 18:46	67904	WNHO_T1	0	0	0	0	0	0	-1.23	-1.23	1	1	0	1200	1200	0
3/21/2025 18:46	57201	ROSS_T1	41	86	45	0.29	0.25	-0.04	-1.35	-1.39	0	0	0	0	0	0
3/21/2025 18:59	42302	MOWR_T2	11	23	12	0.17	0.2	0.03	0	0	0	0	0	0	0	0
3/21/2025 18:59	42301	MOWR_T2	0	3	3	0	0.13	0.13	-0.37	-0.39	0	0	0	0	0	0
3/21/2025 19:04	67605	WARW_T1	14	17	3	0.4	0.5	0.1	-1.14	-1.16	0	0	0	0	0	0
3/21/2025 19:05	40504	CRES_T1	15	16	1	0.18	0.18	0	-0.52	-0.49	0	0	0	0	0	0
3/21/2025 19:06	40505	CRES_T1	0	0	0	0	0	0	0.18	0.19	0	0	0	0	0	0
3/21/2025 19:06	40504	CRES_T1	15	16	1	0.18	0.18	0	0	0	0	0	0	0	0	0
3/21/2025 19:07	40504	CRES_T1	15	16	1	0.18	0.18	0	-0.49	-0.5	0	0	0	0	0	0
3/21/2025 19:30	45501	DERR_T2	0	0	0	0	0	0	0.92	0.96	1	1	0	600	600	0
3/21/2025 19:35	57401	SPAN_T1	0	2	2	0	0.65	0.65	0.3	0.3	0	1	1	0	600	600
3/21/2025 19:48	28102	TWLA_T2	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0
3/21/2025 20:05	22003	BOHE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 20:10	22003	BOHE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 20:12	66401	ROBE_T1	297	121	-176	0.47	0.22	-0.25	0	0	0	0	0	0	0	0
3/21/2025 20:12	66402	ROBE_T1	129	44	-85	0.38	0.19	-0.19	0	0	2	2	0	1500	1500	0
3/21/2025 20:12	57201	ROSS_T1	16	39	23	0.16	0.23	0.07	-1.42	-1.45	0	0	0	0	0	0
3/21/2025 20:21	51201	MTON_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 20:23	51202	MTON_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 20:23	54603	SUMM_T2	0	0	0	0	0	0	-0.1	0	1	1	0	900	900	0
3/21/2025 20:23	51201	MTON_T1	0	0	0	0	0	0	-0.09	-0.12	0	0	0	0	0	0
3/21/2025 20:23	54601	SUMM_T2	4	3	-1	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
3/21/2025 20:24	51201	MTON_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
3/21/2025 20:25	51201	MTON_T1	0	0	0	0	0	0	-0.03	-0.04	0	0	0	0	0	0
3/21/2025 20:25	54603	SUMM_T2	0	0	0	0	0	0	-0.1	0	1	1	0	900	900	0
3/21/2025 20:25	54601	SUMM_T2	4	3	-1	0.55	0.4	-0.15	0	0	0	0	0	0	0	0
3/21/2025 20:26	57201	ROSS_T1	33	21	-12	0.22	0.29	0.07	0	0	0	0	0	0	0	0
3/21/2025 20:26	51202	MTON_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
3/21/2025 20:26	65502	MOJO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 20:26	57205	ROSS_T1	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0
3/21/2025 20:27	51201	MTON_T1	0	0	0	0	0	0	-0.06	-0.08	0	0	0	0	0	0
3/21/2025 20:28	51204	MTON_T2	0	0	0	0	0	0	0.14	0.13	0	0	0	0	0	0
3/21/2025 20:28	51202	MTON_T2	0	0	0	0	0	0	0.18	0.17	0	0	0	0	0	0
3/21/2025 20:30	67605	WARW_T1	6	13	7	0.18	0.26	0.08	-0.86	-0.91	0	0	0	0	0	0
3/21/2025 20:33	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	-0.3	-0.23	0	0	0	0	0	0
3/21/2025 20:34	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	-0.3	-0.23	0	0	0	0	0	0
3/21/2025 20:35	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	-0.3	-0.23	0	0	0	0	0	0
3/21/2025 20:36	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	-0.3	-0.23	0	0	0	0	0	0
3/21/2025 20:37	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	-0.23	-0.31	0	0	0	0	0	0
3/21/2025 20:38	41001	LAUR_T2	0	15	15	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 20:38	53501	EVIL_T2	1	0	-1	0.1	0	-0.1	-0.23	-0.31	0	0	0	0	0	0
3/21/2025 20:38	41002	LAUR_T2	3	9	6	0.63	0.37	-0.26	-0.99	-0.98	0	0	0	0	0	0
3/21/2025 20:53	57401	SPAN_T1	2	2	0	0.65	0.8	0.15	0	0	0	0	0	0	0	0
3/21/2025 20:53	57403	SPAN_T1	0	0	0	0	0	0	-0.01	-0.04	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/21/2025 20:55	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/21/2025 20:55	52101	MEIS_T1	1	1	0	0.5	0.9	0.4	0	0	0	0	0	0	0	0
3/21/2025 20:58	57401	SPAN_T1	2	2	0	0.65	0.8	0.15	-0.28	-0.29	1	1	0	600	600	0
3/21/2025 20:58	40502	CRES_T2	90	113	23	0.6	0.63	0.03	0	0	0	0	0	0	0	0
3/21/2025 20:58	40501	CRES_T2	18	22	4	0.29	0.38	0.09	0	0	0	0	0	0	0	0
3/21/2025 21:00	40502	CRES_T2	91	114	23	0.58	0.63	0.05	0	0	0	0	0	0	0	0
3/21/2025 21:00	40501	CRES_T2	19	22	3	0.28	0.38	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:01	17802	GILB_T1	0	0	0	0	0	0	-0.02	-0.02	0	0	0	0	0	0
3/21/2025 21:02	40505	CRES_T1	0	9	9	0	0.14	0.14	0.19	0.21	0	0	0	0	0	0
3/21/2025 21:02	40504	CRES_T1	12	26	14	0.15	0.33	0.18	0	0	0	0	0	0	0	0
3/21/2025 21:05	22602	KIMB_T1	0	0	0	0	0	0	0.01	-0.01	0	0	0	0	0	0
3/21/2025 21:05	40501	CRES_T2	19	22	3	0.28	0.38	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:05	40502	CRES_T2	91	114	23	0.58	0.63	0.05	0.06	0.06	0	0	0	0	0	0
3/21/2025 21:10	43801	SWIL_T1	2	2	0	3.2	3.2	0	0	0	0	0	0	0	0	0
3/21/2025 21:10	43802	SWIL_T1	0	0	0	0	0	0	-0.26	-0.27	1	1	0	600	600	0
3/21/2025 21:11	26704	HEML_T2	0	0	0	0	0	0	-0.44	-0.44	0	0	0	0	0	0
3/21/2025 21:14	20401	ASHF_T2	0	5	5	0	0.18	0.18	0.19	0.21	0	0	0	0	0	0
3/21/2025 21:14	63602	LETO_T1	4	89	85	0.1	0.22	0.12	-0.59	-0.62	0	0	0	0	0	0
3/21/2025 21:14	63601	LETO_T1	2	3	1	0.1	0.17	0.07	0	0	0	0	0	0	0	0
3/21/2025 21:15	29501	LEDG_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:15	17805	GILB_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:15	13905	SEID_T1	0	0	0	0	0	0	0.26	0.29	0	0	0	0	0	0
3/21/2025 21:16	13303	ORVI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:16	67603	WARW_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
3/21/2025 21:16	67605	WARW_T1	10	11	1	0.25	0.31	0.06	0	0	0	0	0	0	0	0
3/21/2025 21:17	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/21/2025 21:17	23202	HIRU_T2	0	0	0	0	0	0	0.17	0.18	0	0	0	0	0	0
3/21/2025 21:17	17802	GILB_T1	0	0	0	0	0	0	-0.02	-0.01	0	0	0	0	0	0
3/21/2025 21:17	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:17	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:17	15603	NSTR_T2	0	0	0	0	0	0	-0.57	-0.59	0	0	0	0	0	0
3/21/2025 21:17	44701	MUNC_T2	42	9	-33	0.16	0.11	-0.05	0	0	0	0	0	0	0	0
3/21/2025 21:17	23201	HIRU_T2	6	8	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
3/21/2025 21:17	10903	COOP_T2	5	8	3	0.1	0.1	0	-0.4	-0.42	1	1	0	600	600	0
3/21/2025 21:17	44702	MUNC_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:17	23203	HIRU_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:18	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:18	15702	TANN_T2	0	0	0	0	0	0	-0.4	-0.44	0	0	0	0	0	0
3/21/2025 21:18	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:18	16102	BING_T2	0	2	2	0	0.25	0.25	0	0	0	0	0	0	0	0
3/21/2025 21:18	27503	WEIS_T2	57	41	-16	0.16	0.19	0.03	0	0	0	0	0	0	0	0
3/21/2025 21:18	55002	NEWP_T1	4	6	2	0.78	0.63	-0.15	0	0	0	0	0	0	0	0
3/21/2025 21:18	12802	MICK_T1	23	64	41	0.18	0.25	0.07	0	0	0	0	0	0	0	0
3/21/2025 21:18	66402	ROBE_T1	116	144	28	0.34	0.57	0.23	0	0	0	0	0	0	0	0
3/21/2025 21:18	55001	NEWP_T1	0	0	0	0	0	0	-0.43	-0.44	0	0	0	0	0	0
3/21/2025 21:18	67303	WYOM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:18	64204	KINZ_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:18	14801	TREI_T2	6	12	6	0.16	0.18	0.02	0.4	0.43	0	0	0	0	0	0
3/21/2025 21:18	14802	TREI_T2	2	5	3	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/21/2025 21:18	16902	MECK_T1	0	0	0	0	0	0	0.13	0.15	0	0	0	0	0	0
3/21/2025 21:18	12801	MICK_T1	0	0	0	0	0	0	-0.54	-0.44	2	2	0	1200	1200	0
3/21/2025 21:18	12803	MICK_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:18	63501	HEID_TBK1-2	1	31	30	1	0.2	-0.8	0.27	0.33	0	0	0	0	0	0
3/21/2025 21:18	27502	WEIS_T2	5	5	0	0.28	0.22	-0.06	-0.18	-0.2	0	0	0	0	0	0
3/21/2025 21:18	64201	KINZ_T1	1	1	0	0.5	0.7	0.2	-0.1	-0.1	2	2	0	600	600	0
3/21/2025 21:18	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/21/2025 21:18	57401	SPAN_T1	2	2	0	0.8	0.85	0.05	-0.29	-0.33	1	1	0	600	600	0
3/21/2025 21:18	67402	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:18	47104	MARL_T1	0	0	0	0	0	0	-1.03	-1	0	0	0	0	0	0
3/21/2025 21:18	16101	BING_T2	0	0	0	0	0	0	0.31	0.31	0	0	0	0	0	0
3/21/2025 21:18	66401	ROBE_T1	253	313	60	0.43	0.59	0.16	0	0	1	1	0	600	600	0
3/21/2025 21:18	12806	MICK_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/21/2025 21:18	16302	ALPA_T2	0	0	0	0	0	0	0.57	0.55	0	0	0	0	0	0
3/21/2025 21:18	17805	GILB_T2	0	0	0	0	0	0	-0.12	-0.13	0	0	0	0	0	0
3/21/2025 21:18	12807	MICK_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/21/2025 21:19	60102	COCA_T1	0	0	0	0	0	0	-0.19	-0.27	2	2	0	1200	1200	0
3/21/2025 21:19	66505	SMAN_T2	3	3	0	1.37	2.07	0.7	0	0	0	0	0	0	0	0
3/21/2025 21:19	12402	MILF_T1	12	16	4	0.26	0.27	0.01	0	0	0	0	0	0	0	0
3/21/2025 21:19	44203	POIN_T2	0	0	0	0	0	0	-0.16	-0.29	1	1	0	900	900	0
3/21/2025 21:19	63804	HEMP_T1	5	2	-3	1.14	2.55	1.41	0	0	0	0	0	0	0	0
3/21/2025 21:19	46501	LOHA_T1	0	0	0	0	0	0	-0.19	-0.19	1	1	0	1200	1200	0
3/21/2025 21:19	12401	MILF_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:19	14801	TREI_T2	6	12	6	0.16	0.18	0.02	0	0	0	0	0	0	0	0
3/21/2025 21:19	43801	SWIL_T1	2	2	0	3.2	3.2	0	0	0	0	0	0	0	0	0
3/21/2025 21:19	43302	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 21:19	17401	FOHI_T1	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
3/21/2025 21:19	63801	HEMP_T1	6	1	-5	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/21/2025 21:19	22601	KIMB_T1	0	0	0	0	0	0	0.26	0.25	0	0	0	0	0	0
3/21/2025 21:19	60101	COCA_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
3/21/2025 21:19	14802	TREI_T2	2	5	3	0.2	0.23	0.03	0.38	0.41	0	0	0	0	0	0
3/21/2025 21:19	63803	HEMP_T1	31	3	-28	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/21/2025 21:19	66504	SMAN_T2	0	0	0	0	0	0	-0.77	-0.64	0	0	0	0	0	0
3/21/2025 21:19	67106	SPRI_T2	0	0	0	0	0	0	-1.35	-1.35	1	1	0	900	900	0
3/21/2025 21:19	43802	SWIL_T1	0	0	0	0	0	0	-0.26	-0.27	1	1	0	600	600	0
3/21/2025 21:19	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:19	41305	FISH_T1	22	28	6	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
3/21/2025 21:19	41301	FISH_T1	98	145	47	0.22	0.2	-0.02	-0.34	-0.34	0	0	0	0	0	0
3/21/2025 21:19	43304	WATS_T2	2	1	-1	0.85	0	-0.85	0	0	0	0	0	0	0	0
3/21/2025 21:19	43301	WATS_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:19	63802	HEMP_T1	19	0	-19	0.13	0	-0.13	0.06	0.09	0	0	0	0	0	0
3/21/2025 21:19	46506	LOHA_T1	3	3	0	4.43	4.4	-0.03	0	0	0	0	0	0	0	0
3/21/2025 21:20	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:20	12803	MICK_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:20	46602	LACR_T1	0	0	0	0	0	0	-0.73	-0.72	0	0	0	0	0	0
3/21/2025 21:20	11202	ELHE_T2	0	0	0	0	0	0	0.37	0.37	1	1	0	1200	1200	0
3/21/2025 21:20	64204	KINZ_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:20	60701	BREC_T1	0	0	0	0	0	0	-0.09	-0.09	1	1	0	600	600	0
3/21/2025 21:20	55002	NEWP_T1	4	6	2	0.78	0.63	-0.15	-0.29	-0.3	0	0	0	0	0	0
3/21/2025 21:20	21204	ECAR_T2	1	2	1	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:20	64502	LAVI_T1	108	272	164	0.17	0.3	0.13	0	0	0	0	0	0	0	0
3/21/2025 21:20	20601	GRWO_T2	1	0	-1	0.5	0	-0.5	0.71	0.71	0	0	0	0	0	0
3/21/2025 21:20	21704	SUBU_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
3/21/2025 21:20	63501	HEID_TBK1-2	1	31	30	1	0.2	-0.8	0	0	0	0	0	0	0	0
3/21/2025 21:20	61701	ELIZ_T1	1	1	0	5.1	5.2	0.1	0.01	-0.12	0	0	0	0	0	0
3/21/2025 21:20	40101	HUNT_T2	0	0	0	0	0	0	-1.99	-1.98	0	0	0	0	0	0
3/21/2025 21:20	12802	MICK_T1	23	64	41	0.18	0.25	0.07	-1.28	-1.31	0	0	0	0	0	0
3/21/2025 21:20	53903	HALI_T2	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
3/21/2025 21:20	21705	SUBU_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
3/21/2025 21:20	53901	HALI_T2	1	1	0	0.4	0.5	0.1	-1.03	-1.03	0	0	0	0	0	0
3/21/2025 21:20	64503	LAVI_T1	12	42	30	0.14	0.25	0.11	-0.55	-0.58	1	1	0	1200	1200	0
3/21/2025 21:20	53902	HALI_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
3/21/2025 21:20	21206	ECAR_T2	1	2	1	7.6	7.7	0.1	1.15	1.23	0	0	0	0	0	0
3/21/2025 21:20	20603	GRWO_T2	103	132	29	0.44	0.41	-0.03	0.35	0.35	0	0	0	0	0	0
3/21/2025 21:20	64201	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/21/2025 21:20	12807	MICK_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/21/2025 21:20	64203	KINZ_T1	0	0	0	0	0	0	0.05	0.08	0	0	0	0	0	0
3/21/2025 21:20	44802	EDAN_T2	0	0	0	0	0	0	-1.02	-1.01	0	0	0	0	0	0
3/21/2025 21:20	20602	GRWO_T2	48	53	5	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
3/21/2025 21:20	21606	EYNO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:20	42701	AUGU_T1	1	1	0	1	1	0	0	0	2	2	0	1800	1800	0
3/21/2025 21:20	67502	WEWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:20	16302	ALPA_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:20	44201	POIN_T1	2	1	-1	0.1	0	-0.1	-2.27	-2.26	1	1	0	1200	1200	0
3/21/2025 21:20	21701	SUBU_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:20	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:20	60101	COCA_T1	0	0	0	0	0	0	0.17	0.16	0	0	0	0	0	0
3/21/2025 21:20	12806	MICK_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/21/2025 21:20	64501	LAVI_T1	131	151	20	0.37	0.62	0.25	0	0	0	0	0	0	0	0
3/21/2025 21:20	10801	CHHI_T1	0	0	0	0	0	0	-0.99	-1.01	1	1	0	900	900	0
3/21/2025 21:20	21702	SUBU_T1	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
3/21/2025 21:21	14801	TREI_T2	6	12	6	0.16	0.18	0.02	0	0	0	0	0	0	0	0
3/21/2025 21:21	23203	HIRU_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:21	44801	EDAN_T2	0	0	0	0	0	0	-0.52	-0.52	0	0	0	0	0	0
3/21/2025 21:21	41802	GOCI_T2	7	1	-6	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
3/21/2025 21:21	13902	SEID_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:21	42903	MIDD_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
3/21/2025 21:21	65702	RVIL_T2	0	0	0	0	0	0	-2.16	-2.12	0	0	0	0	0	0
3/21/2025 21:21	57201	ROSS_T1	55	30	-25	0.19	0.25	0.06	0	0	0	0	0	0	0	0
3/21/2025 21:21	63501	HEID_TBK1-2	1	31	30	1	0.2	-0.8	0.66	0.6	0	0	0	0	0	0
3/21/2025 21:21	43304	WATS_T2	2	1	-1	0.85	0	-0.85	0	0	0	0	0	0	0	0
3/21/2025 21:21	41305	FISH_T1	22	28	6	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
3/21/2025 21:21	57203	ROSS_T1	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
3/21/2025 21:21	13303	ORVI_T1	0	0	0	0	0	0	0.78	0.75	0	0	0	0	0	0
3/21/2025 21:21	64501	LAVI_T1	131	151	20	0.37	0.62	0.25	0	0	0	0	0	0	0	0
3/21/2025 21:21	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:21	14802	TREI_T2	2	5	3	0.2	0.23	0.03	0.82	0.82	0	0	0	0	0	0
3/21/2025 21:21	45902	AUBU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
3/21/2025 21:21	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:21	43301	WATS_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
3/21/2025 21:21	23202	HIRU_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:21	43302	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 21:21	40303	TAMA_T3	15	14	-1	0.45	0.49	0.04	2.32	2.4	0	0	0	0	0	0
3/21/2025 21:21	47401	PENS_T1	0	0	0	0	0	0	0.63	0.57	0	0	0	0	0	0
3/21/2025 21:21	60301	TWVA_T2	0	0	0	0	0	0	-2	-2.02	2	2	0	1800	1800	0
3/21/2025 21:21	40302	TAMA_T3	45	52	7	0.59	0.56	-0.03	0	0	0	0	0	0	0	0
3/21/2025 21:21	41301	FISH_T1	98	145	47	0.22	0.2	-0.02	0	0	0	0	0	0	0	0
3/21/2025 21:21	44201	POIN_T1	2	1	-1	0.1	0	-0.1	-2.26	-2.26	1	1	0	1200	1200	0
3/21/2025 21:21	64502	LAVI_T1	108	272	164	0.17	0.3	0.13	0	0	0	0	0	0	0	0
3/21/2025 21:21	40301	TAMA_T3	16	21	5	0.23	0.26	0.03	0	0	0	0	0	0	0	0
3/21/2025 21:21	10805	CHHI_T2	1	1	0	8.1	8	-0.1	-0.86	-0.84	0	0	0	0	0	0
3/21/2025 21:21	23201	HIRU_T2	6	8	2	0.3	0.23	-0.07	0	0	0	0	0	0	0	0
3/21/2025 21:21	10401	LIGA_T1	59	64	5	0.26	0.23	-0.03	0	0	0	0	0	0	0	0
3/21/2025 21:21	64503	LAVI_T1	12	42	30	0.14	0.25	0.11	-1.16	-1.27	2	2	0	2400	2400	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/21/2025 21:22	67904	WNHO_T1	0	0	0	0	0	0	-1.23	-1.22	1	1	0	1200	1200	0
3/21/2025 21:22	65702	RVIL_T2	0	0	0	0	0	0	-1.08	-1.06	0	0	0	0	0	0
3/21/2025 21:22	44701	MUNC_T2	42	9	-33	0.16	0.11	-0.05	-1.44	-1.41	0	0	0	0	0	0
3/21/2025 21:22	60803	BUCK_T1	5	3	-2	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
3/21/2025 21:22	44702	MUNC_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:22	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:22	13303	ORVI_T1	0	0	0	0	0	0	0.78	0.75	0	0	0	0	0	0
3/21/2025 21:22	64503	LAVI_T1	12	42	30	0.14	0.25	0.11	-0.58	-0.63	1	1	0	1200	1200	0
3/21/2025 21:22	21703	SUBU_T1	0	0	0	0	0	0	0.29	0.3	0	0	0	0	0	0
3/21/2025 21:22	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:22	14802	TREI_T2	2	5	3	0.2	0.23	0.03	0	0	0	0	0	0	0	0
3/21/2025 21:22	10903	COOP_T2	5	8	3	0.1	0.1	0	0	0	0	0	0	0	0	0
3/21/2025 21:22	52502	PROG_T2	1	0	-1	0.2	0	-0.2	0	0	0	0	0	0	0	0
3/21/2025 21:22	43801	SWIL_T1	2	2	0	3.2	3.2	0	0	0	0	0	0	0	0	0
3/21/2025 21:22	55003	NEWP_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
3/21/2025 21:22	10101	ALLE_T3	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
3/21/2025 21:22	60701	BREC_T1	0	0	0	0	0	0	-0.09	-0.1	1	1	0	600	600	0
3/21/2025 21:22	40302	TAMA_T3	45	52	7	0.59	0.56	-0.03	0	0	0	0	0	0	0	0
3/21/2025 21:22	41504	FAIR_T2	0	0	0	0	0	0	0.35	0.35	0	0	0	0	0	0
3/21/2025 21:22	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:22	21702	SUBU_T1	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
3/21/2025 21:22	24102	EHAZ_T1	7	5	-2	0.71	1.4	0.69	0	0	0	0	0	0	0	0
3/21/2025 21:22	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:22	43802	SWIL_T1	0	0	0	0	0	0	-0.27	-0.27	1	1	0	600	600	0
3/21/2025 21:22	24105	EHAZ_T1	4	4	0	6.25	6.55	0.3	0	0	0	0	0	0	0	0
3/21/2025 21:22	54502	ENOL_T2	1	1	0	0.6	0.6	0	-2.04	-2.04	1	1	0	600	600	0
3/21/2025 21:22	21704	SUBU_T1	1	0	-1	0.9	0	-0.9	0	0	0	0	0	0	0	0
3/21/2025 21:22	43402	BENT_T1	1	3	2	0.1	0.13	0.03	-1.03	-1.02	1	1	0	900	900	0
3/21/2025 21:22	47401	PENS_T1	0	0	0	0	0	0	0.63	0.57	0	0	0	0	0	0
3/21/2025 21:22	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:22	44601	SALE_T2	0	0	0	0	0	0	-0.28	-0.28	0	0	0	0	0	0
3/21/2025 21:22	45902	AUBU_T1	0	0	0	0	0	0	0	0	2	2	0	1200	1200	0
3/21/2025 21:22	21701	SUBU_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:22	11302	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:22	66402	ROBE_T1	116	144	28	0.34	0.57	0.23	0	0	0	0	0	0	0	0
3/21/2025 21:22	67106	SPRI_T2	0	0	0	0	0	0	-1.35	-1.34	1	1	0	900	900	0
3/21/2025 21:22	60201	ATGL_T2	157	192	35	0.34	0.31	-0.03	-0.49	-0.45	0	0	0	0	0	0
3/21/2025 21:22	47101	MARL_T1	0	0	0	0	0	0	-1.2	-1.25	0	0	0	0	0	0
3/21/2025 21:22	41305	FISH_T1	22	28	6	0.17	0.16	-0.01	0	0	0	0	0	0	0	0
3/21/2025 21:22	46001	BERW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:22	40101	HUNT_T2	0	0	0	0	0	0	-1.98	-2.01	0	0	0	0	0	0
3/21/2025 21:22	40301	TAMA_T3	16	21	5	0.23	0.26	0.03	1.69	1.62	1	1	0	1200	1200	0
3/21/2025 21:22	41802	GOCI_T2	7	1	-6	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
3/21/2025 21:22	14801	TREI_T2	6	12	6	0.16	0.18	0.02	0.43	0.4	0	0	0	0	0	0
3/21/2025 21:22	21705	SUBU_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
3/21/2025 21:22	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:22	60801	BUCK_T1	9	4	-5	0.12	0.1	-0.02	-0.27	-0.27	0	0	0	0	0	0
3/21/2025 21:22	64501	LAVI_T1	131	151	20	0.37	0.62	0.25	0	0	0	0	0	0	0	0
3/21/2025 21:22	66401	ROBE_T1	253	313	60	0.43	0.59	0.16	0	0	1	0	-1	600	0	-600
3/21/2025 21:22	21203	ECAR_T1	0	0	0	0	0	0	-0.54	-0.54	0	0	0	0	0	0
3/21/2025 21:22	20401	ASHF_T2	4	4	0	0.13	0.2	0.07	0	0	0	0	0	0	0	0
3/21/2025 21:22	10103	ALLE_T3	1	1	0	0.2	2.4	2.2	0	0	0	0	0	0	0	0
3/21/2025 21:22	24103	EHAZ_T1	0	0	0	0	0	0	-1.38	-1.37	0	0	0	0	0	0
3/21/2025 21:22	41301	FISH_T1	98	145	47	0.22	0.2	-0.02	-0.34	-0.36	0	0	0	0	0	0
3/21/2025 21:22	40303	TAMA_T3	15	14	-1	0.45	0.49	0.04	0	0	0	0	0	0	0	0
3/21/2025 21:22	57401	SPAN_T1	2	2	0	0.8	0.85	0.05	-0.66	-0.58	2	2	0	1200	1200	0
3/21/2025 21:22	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
3/21/2025 21:22	52503	PROG_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:22	41502	FAIR_T2	1	0	-1	1	0	-1	0	0	0	0	0	0	0	0
3/21/2025 21:22	64502	LAVI_T1	108	272	164	0.17	0.3	0.13	0	0	0	0	0	0	0	0
3/21/2025 21:23	44802	EDAN_T2	0	0	0	0	0	0	-2.03	-2.04	0	0	0	0	0	0
3/21/2025 21:23	64101	REDB_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:23	63803	HEMP_T1	31	3	-28	0.15	0.1	-0.05	0.49	0.5	0	0	0	0	0	0
3/21/2025 21:23	60801	BUCK_T1	9	4	-5	0.12	0.1	-0.02	-0.27	-0.27	0	0	0	0	0	0
3/21/2025 21:23	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/21/2025 21:23	44701	MUNC_T2	42	9	-33	0.16	0.11	-0.05	0	0	0	0	0	0	0	0
3/21/2025 21:23	60502	NMAN_T2	0	0	0	0	0	0	-1.44	-1.46	0	0	0	0	0	0
3/21/2025 21:23	42501	ALTA_T2	0	0	0	0	0	0	0.62	0.58	0	0	0	0	0	0
3/21/2025 21:23	57401	SPAN_T1	2	2	0	0.8	0.85	0.05	-0.99	-0.87	3	3	0	1800	1800	0
3/21/2025 21:23	63804	HEMP_T1	5	2	-3	1.14	2.55	1.41	0	0	0	0	0	0	0	0
3/21/2025 21:23	67106	SPRI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:23	47401	PENS_T1	0	0	0	0	0	0	0.63	0.57	0	0	0	0	0	0
3/21/2025 21:23	12803	MICK_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:23	43301	WATS_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
3/21/2025 21:23	55002	NEWP_T1	4	6	2	0.78	0.63	-0.15	-0.3	-0.28	0	0	0	0	0	0
3/21/2025 21:23	63602	LETO_T1	89	80	-9	0.22	0.18	-0.04	-0.62	-0.64	0	0	0	0	0	0
3/21/2025 21:23	12807	MICK_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/21/2025 21:23	10103	ALLE_T3	1	1	0	0.2	2.4	2.2	0	0	0	0	0	0	0	0
3/21/2025 21:23	67605	WARW_T1	10	11	1	0.25	0.31	0.06	-0.89	-0.92	0	0	0	0	0	0
3/21/2025 21:23	60803	BUCK_T1	5	3	-2	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
3/21/2025 21:23	10101	ALLE_T3	1	1	0	6.2	6	-0.2	0	0	0	0	0	0	0	0
3/21/2025 21:23	17805	GILB_T2	0	0	0	0	0	0	-0.39	-0.51	0	0	0	0	0	0
3/21/2025 21:23	63305	GREE_T1	26	10	-16	0.22	0.26	0.04	0	0	0	0	0	0	0	0
3/21/2025 21:23	43302	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 21:23	12802	MICK_T1	23	64	41	0.18	0.25	0.07	-1.31	-1.31	0	0	0	0	0	0
3/21/2025 21:23	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
3/21/2025 21:23	16301	ALPA_T1	0	0	0	0	0	0	-0.06	-0.06	0	0	0	0	0	0
3/21/2025 21:23	23403	HONE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:23	12801	MICK_T1	0	0	0	0	0	0	-0.22	-0.28	1	1	0	600	600	0
3/21/2025 21:23	22602	KIMB_T1	0	0	0	0	0	0	-0.01	0.01	0	0	0	0	0	0
3/21/2025 21:23	60201	ATGL_T2	157	192	35	0.34	0.31	-0.03	-0.49	-0.45	0	0	0	0	0	0
3/21/2025 21:23	63601	LETO_T1	3	2	-1	0.17	0.1	-0.07	0	0	0	0	0	0	0	0
3/21/2025 21:23	10107	ALLE_T3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:23	43304	WATS_T2	2	1	-1	0.85	0	-0.85	0	0	0	0	0	0	0	0
3/21/2025 21:23	44702	MUNC_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:23	44202	POIN_T2	0	0	0	0	0	0	-1.04	-1.03	1	1	0	1200	1200	0
3/21/2025 21:23	26604	BROO_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:23	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	-1.36	-1.3	1	1	0	600	600	0
3/21/2025 21:23	46802	HEPB_T1	1	1	0	0.5	0.6	0.1	-0.4	-0.39	0	0	0	0	0	0
3/21/2025 21:23	63802	HEMP_T1	19	0	-19	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/21/2025 21:23	12806	MICK_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/21/2025 21:23	42701	AUGU_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/21/2025 21:23	16302	ALPA_T2	0	0	0	0	0	0	0.55	0.53	0	0	0	0	0	0
3/21/2025 21:23	40505	CRES_T1	8	1	-7	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/21/2025 21:23	60501	NMAN_T2	44	144	100	0.19	0.27	0.08	0	0	0	0	0	0	0	0
3/21/2025 21:23	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/21/2025 21:23	42504	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:23	63306	GREE_T1	0	0	0	0	0	0	-3.16	-1.17	2	0	-2	1800	0	-1800
3/21/2025 21:23	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0.01	0.01	0	0	0	0	0	0
3/21/2025 21:23	63801	HEMP_T1	6	1	-5	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/21/2025 21:23	65303	NBRI_T2	0	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0
3/21/2025 21:23	40504	CRES_T1	26	22	-4	0.33	0.3	-0.03	-0.58	-0.58	0	0	0	0	0	0
3/21/2025 21:23	44703	MUNC_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:23	65702	RVIL_T2	0	0	0	0	0	0	-1.08	-1.06	0	0	0	0	0	0
3/21/2025 21:23	42902	MIDD_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
3/21/2025 21:24	12806	MICK_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/21/2025 21:24	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:24	63802	HEMP_T1	19	0	-19	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/21/2025 21:24	52202	DEVO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:24	43302	WATS_T2	0	1	1	0	0.2	0.2	-0.82	-0.8	2	2	0	1800	1800	0
3/21/2025 21:24	12802	MICK_T1	23	64	41	0.18	0.25	0.07	0	0	0	0	0	0	0	0
3/21/2025 21:24	41901	REED_T1	8	9	1	0.5	0.49	-0.01	0	0	0	0	0	0	0	0
3/21/2025 21:24	12803	MICK_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:24	65901	SAKR_T2	0	0	0	0	0	0	-1.53	-1.52	1	1	0	900	900	0
3/21/2025 21:24	66504	SMAN_T2	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
3/21/2025 21:24	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
3/21/2025 21:24	12801	MICK_T1	0	0	0	0	0	0	-0.22	-0.28	1	1	0	600	600	0
3/21/2025 21:24	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:24	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	-1.36	-1.3	1	1	0	600	600	0
3/21/2025 21:24	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:24	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:24	67401	WAKE_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:24	45501	DERR_T2	0	0	0	0	0	0	0.09	-0.05	1	1	0	600	600	0
3/21/2025 21:24	41802	GOCI_T2	7	1	-6	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
3/21/2025 21:24	24203	PROV_T4	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:24	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/21/2025 21:24	41202	KENM_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/21/2025 21:24	59402	RFLD_T2	0	0	0	0	0	0	-0.97	-0.97	1	1	0	450	450	0
3/21/2025 21:24	60801	BUCK_T1	9	4	-5	0.12	0.1	-0.02	-0.27	-0.27	0	0	0	0	0	0
3/21/2025 21:24	66505	SMAN_T2	3	3	0	1.37	2.07	0.7	0	0	0	0	0	0	0	0
3/21/2025 21:24	63305	GREE_T1	26	10	-16	0.22	0.26	0.04	-1.47	-1.55	0	0	0	0	0	0
3/21/2025 21:24	27201	YATE_T1	10	10	0	6.43	6.32	-0.11	-0.53	-0.54	0	0	0	0	0	0
3/21/2025 21:24	64501	LAVI_T1	131	151	20	0.37	0.62	0.25	0	0	0	0	0	0	0	0
3/21/2025 21:24	47901	HRDG_T1	0	0	0	0	0	0	1.59	1.37	0	0	0	0	0	0
3/21/2025 21:24	42701	AUGU_T1	1	1	0	1	1	0	0	0	2	2	0	1800	1800	0
3/21/2025 21:24	43304	WATS_T2	2	1	-1	0.85	0	-0.85	0	0	0	0	0	0	0	0
3/21/2025 21:24	41201	KENM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:24	63501	HEID_TBK1-2	1	31	30	1	0.2	-0.8	0.66	0.6	0	0	0	0	0	0
3/21/2025 21:24	63801	HEMP_T1	6	1	-5	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/21/2025 21:24	12807	MICK_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/21/2025 21:24	61302	EARL_T1	0	0	0	0	0	0	1.2	1.17	0	0	0	0	0	0
3/21/2025 21:24	63306	GREE_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:24	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:24	16302	ALPA_T2	0	0	0	0	0	0	1.11	1.07	0	0	0	0	0	0
3/21/2025 21:24	61301	EARL_T1	0	0	0	0	0	0	0.15	0.15	0	0	0	0	0	0
3/21/2025 21:24	46801	HEPB_T2	2	2	0	0.75	0.75	0	0	0	0	0	0	0	0	0
3/21/2025 21:24	65702	RVIL_T2	0	0	0	0	0	0	-1.08	-1.06	0	0	0	0	0	0
3/21/2025 21:24	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:24	65903	SAKR_T2	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:24	60803	BUCK_T1	5	3	-2	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
3/21/2025 21:24	24202	PROV_T4	5	13	8	0.12	0.12	0	-0.89	-0.91	1	1	0	1200	1200	0
3/21/2025 21:24	64503	LAVI_T1	12	42	30	0.14	0.25	0.11	-0.58	-0.63	1	1	0	1200	1200	0
3/21/2025 21:24	44505	HAMI_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/21/2025 21:24	63804	HEMP_T1	5	2	-3	1.14	2.55	1.41	0.68	0.65	0	0	0	0	0	0
3/21/2025 21:24	60501	NMAN_T2	44	144	100	0.19	0.27	0.08	0	0	0	0	0	0	0	0
3/21/2025 21:24	57201	ROSS_T1	55	30	-25	0.19	0.25	0.06	0	0	0	0	0	0	0	0
3/21/2025 21:24	63803	HEMP_T1	31	3	-28	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/21/2025 21:24	67605	WARW_T1	10	11	1	0.25	0.31	0.06	0	0	0	0	0	0	0	0
3/21/2025 21:24	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/21/2025 21:24	67402	WAKE_T2	0	0	0	0	0	0	0.29	0.31	0	0	0	0	0	0
3/21/2025 21:24	60701	BREC_T1	0	0	0	0	0	0	-0.09	-0.1	1	1	0	600	600	0
3/21/2025 21:24	64502	LAVI_T1	108	272	164	0.17	0.3	0.13	0	0	0	0	0	0	0	0
3/21/2025 21:24	43202	MVIL_T2	58	61	3	0.54	0.68	0.14	-0.67	-0.72	0	0	0	0	0	0
3/21/2025 21:24	46803	HEPB_T2	0	0	0	0	0	0	0.4	0.43	0	0	0	0	0	0
3/21/2025 21:25	57201	ROSS_T1	55	30	-25	0.19	0.25	0.06	0	0	0	0	0	0	0	0
3/21/2025 21:25	65702	RVIL_T2	0	0	0	0	0	0	-1.08	-1.06	0	0	0	0	0	0
3/21/2025 21:25	21704	SUBU_T1	1	0	-1	0.9	0	-0.9	-1.38	-1.41	1	1	0	1200	1200	0
3/21/2025 21:25	41201	KENM_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:25	64502	LAVI_T1	108	272	164	0.17	0.3	0.13	0	0	0	0	0	0	0	0
3/21/2025 21:25	63801	HEMP_T1	6	1	-5	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/21/2025 21:25	63802	HEMP_T1	19	0	-19	0.13	0	-0.13	0.09	0.04	0	0	0	0	0	0
3/21/2025 21:25	61001	DONV_T1	0	0	0	0	0	0	-0.14	-0.14	0	0	0	0	0	0
3/21/2025 21:25	10801	CHHI_T1	0	0	0	0	0	0	-2.03	-2.02	2	2	0	1800	1800	0
3/21/2025 21:25	13302	ORVI_T2	12	19	7	0.25	0.25	0	1.42	1.27	0	0	0	0	0	0
3/21/2025 21:25	60501	NMAN_T2	44	144	100	0.19	0.27	0.08	0	0	0	0	0	0	0	0
3/21/2025 21:25	40101	HUNT_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:25	60502	NMAN_T2	0	0	0	0	0	0	-1.44	-1.46	0	0	0	0	0	0
3/21/2025 21:25	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/21/2025 21:25	43302	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 21:25	60701	BREC_T1	0	0	0	0	0	0	-0.09	-0.1	1	1	0	600	600	0
3/21/2025 21:25	64501	LAVI_T1	131	151	20	0.37	0.62	0.25	-1.99	-1.43	0	0	0	0	0	0
3/21/2025 21:25	63804	HEMP_T1	5	2	-3	1.14	2.55	1.41	0	0	0	0	0	0	0	0
3/21/2025 21:25	66402	ROBE_T1	116	144	28	0.34	0.57	0.23	0	0	0	0	0	0	0	0
3/21/2025 21:25	61304	EARL_T1	0	0	0	0	0	0	-0.39	-0.42	0	0	0	0	0	0
3/21/2025 21:25	23502	GEOR_T1	0	0	0	0	0	0	-0.56	-0.54	0	0	0	0	0	0
3/21/2025 21:25	60404	DILL_T2	0	0	0	0	0	0	0.4	0.36	0	0	0	0	0	0
3/21/2025 21:25	63803	HEMP_T1	31	3	-28	0.15	0.1	-0.05	0.49	0.5	0	0	0	0	0	0
3/21/2025 21:25	60803	BUCK_T1	5	3	-2	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
3/21/2025 21:25	67901	WNHO_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:25	60801	BUCK_T1	9	4	-5	0.12	0.1	-0.02	-0.27	-0.27	0	0	0	0	0	0
3/21/2025 21:25	27503	WEIS_T2	57	41	-16	0.16	0.19	0.03	0	0	0	0	0	0	0	0
3/21/2025 21:25	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
3/21/2025 21:25	42701	AUGU_T1	1	1	0	1	1	0	0	0	2	2	0	1800	1800	0
3/21/2025 21:25	52004	LING_T2	2	2	0	6.45	6.4	-0.05	0.15	0.15	0	0	0	0	0	0
3/21/2025 21:25	66401	ROBE_T1	253	313	60	0.43	0.59	0.16	0	0	0	0	0	0	0	0
3/21/2025 21:25	21705	SUBU_T1	1	1	0	6	6	0	0	0	0	0	0	0	0	0
3/21/2025 21:25	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:25	55002	NEWP_T1	4	6	2	0.78	0.63	-0.15	-0.3	-0.28	0	0	0	0	0	0
3/21/2025 21:25	52002	LING_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:25	62607	ENGL_T1	0	0	0	0	0	0	-0.8	-0.83	0	0	0	0	0	0
3/21/2025 21:25	64503	LAVI_T1	12	42	30	0.14	0.25	0.11	-0.58	-0.63	1	1	0	1200	1200	0
3/21/2025 21:25	21701	SUBU_T1	1	1	0	6.2	6.1	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:25	57203	ROSS_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
3/21/2025 21:25	43304	WATS_T2	2	1	-1	0.85	0	-0.85	1.34	1	0	0	0	0	0	0
3/21/2025 21:25	64902	MILL_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
3/21/2025 21:25	13202	PALM_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:25	21403	EXET_T2	0	0	0	0	0	0	-1.44	-1.44	0	0	0	0	0	0
3/21/2025 21:25	41202	KENM_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/21/2025 21:25	27502	WEIS_T2	5	5	0	0.28	0.22	-0.06	0	0	0	0	0	0	0	0
3/21/2025 21:25	13303	ORVI_T1	0	0	0	0	0	0	0.78	0.75	0	0	0	0	0	0
3/21/2025 21:25	61302	EARL_T1	0	0	0	0	0	0	1.2	1.17	0	0	0	0	0	0
3/21/2025 21:25	52006	LING_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
3/21/2025 21:25	60101	COCA_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
3/21/2025 21:25	21702	SUBU_T1	1	1	0	1.2	0	-1.2	0	0	0	0	0	0	0	0
3/21/2025 21:25	11303	EMMA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:25	44802	EDAN_T2	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
3/21/2025 21:26	48302	ORWI_T2	26	14	-12	0.91	1.57	0.66	0	0	0	0	0	0	0	0
3/21/2025 21:26	53901	HALI_T2	1	1	0	0.4	0.5	0.1	-2.06	-2.16	0	0	0	0	0	0
3/21/2025 21:26	24201	PROV_T3	4	10	6	4.33	1.99	-2.34	-1.51	-1.52	1	1	0	1200	1200	0
3/21/2025 21:26	52404	GRPA_T2	0	0	0	0	0	0	0.24	0.29	0	0	0	0	0	0
3/21/2025 21:26	52401	GRPA_T2	0	0	0	0	0	0	-1.22	-1.24	0	0	0	0	0	0
3/21/2025 21:26	15702	TANN_T2	0	0	0	0	0	0	-0.44	-0.42	0	0	0	0	0	0
3/21/2025 21:26	46203	DANV_T2	303	329	26	0.89	0.76	-0.13	-1.11	-1.11	0	0	0	0	0	0
3/21/2025 21:26	42504	ALTA_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:26	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	-2.72	-2.6	2	2	0	1200	1200	0
3/21/2025 21:26	57203	ROSS_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
3/21/2025 21:26	42902	MIDD_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:26	55508	HERS_T2	2	2	0	0.5	0.4	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:26	53902	HALI_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
3/21/2025 21:26	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:26	14802	TREI_T2	2	5	3	0.2	0.23	0.03	0.41	0.41	0	0	0	0	0	0
3/21/2025 21:26	54504	ENOL_T2	0	0	0	0	0	0	-0.92	-0.92	0	0	0	0	0	0
3/21/2025 21:26	52402	GRPA_T2	3	3	0	0.3	0.53	0.23	0	0	0	0	0	0	0	0
3/21/2025 21:26	20602	GRWO_T2	48	53	5	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
3/21/2025 21:26	43302	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 21:26	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:26	64702	LITI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:26	41002	LAUR_T2	17	28	11	0.31	0.26	-0.05	0	0	0	0	0	0	0	0
3/21/2025 21:26	45902	AUBU_T1	0	0	0	0	0	0	0	0	1	1	0	600	600	0
3/21/2025 21:26	24801	VALM_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:26	24204	PROV_T3	2	5	3	2.8	1.22	-1.58	0	0	0	0	0	0	0	0
3/21/2025 21:26	60201	ATGL_T2	157	192	35	0.34	0.31	-0.03	-0.49	-0.45	0	0	0	0	0	0
3/21/2025 21:26	14801	TREI_T2	6	12	6	0.16	0.18	0.02	0	0	0	0	0	0	0	0
3/21/2025 21:26	15703	TANN_T2	1	1	0	5.8	5.8	0	0	0	0	0	0	0	0	0
3/21/2025 21:26	42301	MOWR_T2	1	1	0	0.1	0.1	0	-0.36	-0.38	0	0	0	0	0	0
3/21/2025 21:26	20603	GRWO_T2	103	132	29	0.44	0.41	-0.03	0.35	0.38	0	0	0	0	0	0
3/21/2025 21:26	64502	LAVI_T1	108	272	164	0.17	0.3	0.13	0	0	0	0	0	0	0	0
3/21/2025 21:26	64501	LAVI_T1	131	151	20	0.37	0.62	0.25	-1.99	-1.43	0	0	0	0	0	0
3/21/2025 21:26	52403	GRPA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/21/2025 21:26	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:26	57205	ROSS_T1	0	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0
3/21/2025 21:26	42501	ALTA_T2	0	0	0	0	0	0	0.62	0.58	0	0	0	0	0	0
3/21/2025 21:26	44202	POIN_T2	0	0	0	0	0	0	-1.04	-1.03	1	1	0	1200	1200	0
3/21/2025 21:26	48303	ORWI_T2	67	46	-21	0.42	0.52	0.1	0.46	0.47	0	0	0	0	0	0
3/21/2025 21:26	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:26	64904	MILL_T1	0	0	0	0	0	0	0.54	0.4	0	0	0	0	0	0
3/21/2025 21:26	57201	ROSS_T1	55	30	-25	0.19	0.25	0.06	0	0	0	0	0	0	0	0
3/21/2025 21:26	64503	LAVI_T1	12	42	30	0.14	0.25	0.11	-0.58	-0.63	1	1	0	1200	1200	0
3/21/2025 21:26	57401	SPAN_T1	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
3/21/2025 21:26	63305	GREE_T1	26	10	-16	0.22	0.26	0.04	-1.47	-1.55	0	0	0	0	0	0
3/21/2025 21:26	10805	CHHI_T2	1	1	0	8.1	8	-0.1	-0.86	-0.84	0	0	0	0	0	0
3/21/2025 21:26	53903	HALI_T2	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
3/21/2025 21:26	42302	MOWR_T2	12	13	1	0.16	0.12	-0.04	0	0	0	0	0	0	0	0
3/21/2025 21:26	63501	HEID_TBK1-2	1	31	30	1	0.2	-0.8	0.33	0.3	0	0	0	0	0	0
3/21/2025 21:26	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/21/2025 21:26	20601	GRWO_T2	1	0	-1	0.5	0	-0.5	0	0	0	0	0	0	0	0
3/21/2025 21:26	57403	SPAN_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
3/21/2025 21:26	59402	RFLD_T2	0	0	0	0	0	0	-0.97	-0.97	1	1	0	450	450	0
3/21/2025 21:26	44802	EDAN_T2	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
3/21/2025 21:26	40101	HUNT_T2	0	0	0	0	0	0	-1.98	-2.01	0	0	0	0	0	0
3/21/2025 21:26	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:26	43304	WATS_T2	2	1	-1	0.85	0	-0.85	0.67	0.5	0	0	0	0	0	0
3/21/2025 21:26	46801	HEPB_T2	2	2	0	0.75	0.75	0	0.47	0.47	0	0	0	0	0	0
3/21/2025 21:26	43402	BENT_T1	1	3	2	0.1	0.13	0.03	-1.03	-1.02	1	1	0	900	900	0
3/21/2025 21:26	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:26	41001	LAUR_T2	32	46	14	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/21/2025 21:26	41802	GOCI_T2	7	1	-6	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
3/21/2025 21:26	60102	COCA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:26	45501	DERR_T2	0	0	0	0	0	0	0.09	-0.05	1	1	0	600	600	0
3/21/2025 21:27	46004	BERW_T2	0	2	2	0	0.1	0.1	-0.81	-0.8	0	0	0	0	0	0
3/21/2025 21:27	24102	EHAZ_T1	7	5	-2	0.71	1.4	0.69	0	0	0	0	0	0	0	0
3/21/2025 21:27	67201	TEHI_T1	0	0	0	0	0	0	-0.38	-0.36	1	1	0	900	900	0
3/21/2025 21:27	60701	BREC_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:27	63804	HEMP_T1	5	2	-3	1.14	2.55	1.41	0	0	0	0	0	0	0	0
3/21/2025 21:27	58202	NEWV_T1	5	5	0	0.36	0.8	0.44	-0.06	-0.06	0	0	0	0	0	0
3/21/2025 21:27	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/21/2025 21:27	21204	ECAR_T2	1	2	1	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:27	54501	ENOL_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
3/21/2025 21:27	63801	HEMP_T1	6	1	-5	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/21/2025 21:27	63305	GREE_T1	26	10	-16	0.22	0.26	0.04	0	0	0	0	0	0	0	0
3/21/2025 21:27	55002	NEWP_T1	4	6	2	0.78	0.63	-0.15	-0.3	-0.28	0	0	0	0	0	0
3/21/2025 21:27	63803	HEMP_T1	31	3	-28	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/21/2025 21:27	24105	EHAZ_T1	4	4	0	6.25	6.55	0.3	0	0	0	0	0	0	0	0
3/21/2025 21:27	53903	HALI_T2	2	2	0	1.2	1.2	0	0	0	0	0	0	0	0	0
3/21/2025 21:27	46206	DANV_T2	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:27	44201	POIN_T1	2	1	-1	0.1	0	-0.1	-4.52	-4.52	2	2	0	2400	2400	0
3/21/2025 21:27	20403	ASHF_T2	0	0	0	0	0	0	0.18	0.2	0	0	0	0	0	0
3/21/2025 21:27	45501	DERR_T2	0	0	0	0	0	0	0.09	-0.05	1	1	0	600	600	0
3/21/2025 21:27	41801	GOCI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:27	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:27	20401	ASHF_T2	4	4	0	0.13	0.2	0.07	0	0	0	0	0	0	0	0
3/21/2025 21:27	60101	COCA_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
3/21/2025 21:27	12402	MILF_T1	12	16	4	0.26	0.27	0.01	0	0	0	0	0	0	0	0
3/21/2025 21:27	41802	GOCI_T2	7	1	-6	0.14	0.1	-0.04	0	0	0	0	0	0	0	0
3/21/2025 21:27	47403	PENS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:27	24104	EHAZ_T1	0	0	0	0	0	0	-2.25	-2.25	1	1	0	1200	1200	0
3/21/2025 21:27	21206	ECAR_T2	1	2	1	7.6	7.7	0.1	1.23	1.23	0	0	0	0	0	0
3/21/2025 21:27	52006	LING_T2	2	2	0	0.65	0.6	-0.05	0	0	0	0	0	0	0	0
3/21/2025 21:27	40201	BEGA_T2	9	10	1	0.48	0.39	-0.09	0	0	0	0	0	0	0	0
3/21/2025 21:27	52001	LING_T1	0	0	0	0	0	0	0.18	0.16	0	0	0	0	0	0
3/21/2025 21:27	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:27	52002	LING_T2	1	1	0	0.7	0.8	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:27	45801	HEGI_T1	0	0	0	0	0	0	-0.53	-0.59	1	1	0	900	900	0
3/21/2025 21:27	52402	GRPA_T2	3	3	0	0.3	0.53	0.23	0	0	0	0	0	0	0	0
3/21/2025 21:27	46203	DANV_T2	303	329	26	0.89	0.76	-0.13	-1.11	-1.11	0	0	0	0	0	0
3/21/2025 21:27	52004	LING_T2	2	2	0	6.45	6.4	-0.05	0.15	0.15	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/21/2025 21:27	67605	WARW_T1	10	11	1	0.25	0.31	0.06	-0.89	-0.92	0	0	0	0	0	0
3/21/2025 21:27	53902	HALI_T2	1	1	0	5.5	5.3	-0.2	0	0	0	0	0	0	0	0
3/21/2025 21:27	42902	MIDD_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
3/21/2025 21:27	47201	FAXO_T2	0	0	0	0	0	0	-2.3	-2.3	1	1	0	1200	1200	0
3/21/2025 21:27	44801	EDAN_T2	0	0	0	0	0	0	-1.04	-1.04	0	0	0	0	0	0
3/21/2025 21:27	47101	MARL_T1	0	0	0	0	0	0	-1.2	-1.25	0	0	0	0	0	0
3/21/2025 21:27	12401	MILF_T1	0	0	0	0	0	0	-0.31	-0.42	0	0	0	0	0	0
3/21/2025 21:27	63306	GREE_T1	0	0	0	0	0	0	-1.58	-0.59	1	0	-1	900	0	-900
3/21/2025 21:27	44802	EDAN_T2	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
3/21/2025 21:27	57403	SPAN_T1	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0
3/21/2025 21:27	57401	SPAN_T1	2	2	0	0.8	0.85	0.05	0	0	0	0	0	0	0	0
3/21/2025 21:27	43202	MVIL_T2	58	61	3	0.54	0.68	0.14	-0.67	-0.72	0	0	0	0	0	0
3/21/2025 21:27	53901	HALI_T2	1	1	0	0.4	0.5	0.1	-1.03	-1.08	0	0	0	0	0	0
3/21/2025 21:27	63802	HEMP_T1	19	0	-19	0.13	0	-0.13	0.09	0.04	0	0	0	0	0	0
3/21/2025 21:27	58201	NEWV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:27	60102	COCA_T1	0	0	0	0	0	0	-0.27	0.2	2	2	0	1200	1200	0
3/21/2025 21:27	52403	GRPA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/21/2025 21:27	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:28	41002	LAUR_T2	17	28	11	0.31	0.26	-0.05	0	0	0	0	0	0	0	0
3/21/2025 21:28	42902	MIDD_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
3/21/2025 21:28	63804	HEMP_T1	5	2	-3	1.14	2.55	1.41	0	0	0	0	0	0	0	0
3/21/2025 21:28	64201	KINZ_T1	1	1	0	0.5	0.7	0.2	0	0	0	0	0	0	0	0
3/21/2025 21:28	41901	REED_T1	8	9	1	0.5	0.49	-0.01	0	0	0	0	0	0	0	0
3/21/2025 21:28	60801	BUCK_T1	9	4	-5	0.12	0.1	-0.02	-0.27	-0.27	0	0	0	0	0	0
3/21/2025 21:28	43304	WATS_T2	2	1	-1	0.85	0	-0.85	0	0	0	0	0	0	0	0
3/21/2025 21:28	67601	WARW_T2	0	0	0	0	0	0	-0.68	-0.71	0	0	0	0	0	0
3/21/2025 21:28	47401	PENS_T1	0	0	0	0	0	0	1.89	1.71	0	0	0	0	0	0
3/21/2025 21:28	57403	SPAN_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:28	55001	NEWP_T1	0	0	0	0	0	0	-0.88	-0.94	0	0	0	0	0	0
3/21/2025 21:28	55002	NEWP_T1	4	6	2	0.78	0.63	-0.15	-0.3	-0.28	0	0	0	0	0	0
3/21/2025 21:28	64202	KINZ_T1	1	0	-1	0.1	0	-0.1	0.25	0.25	0	0	0	0	0	0
3/21/2025 21:28	57401	SPAN_T1	2	2	0	0.8	0.85	0.05	-0.66	-0.58	2	2	0	1200	1200	0
3/21/2025 21:28	67203	TEHI_T1	0	0	0	0	0	0	1.75	1.64	1	1	0	900	900	0
3/21/2025 21:28	14801	TREI_T2	6	12	6	0.16	0.18	0.02	0	0	0	0	0	0	0	0
3/21/2025 21:28	14802	TREI_T2	2	5	3	0.2	0.23	0.03	0.41	0.41	0	0	0	0	0	0
3/21/2025 21:28	46506	LOHA_T1	3	3	0	4.43	4.4	-0.03	-0.16	-0.14	0	0	0	0	0	0
3/21/2025 21:28	63501	HEID_TBK1-2	1	31	30	1	0.2	-0.8	0.33	0.3	0	0	0	0	0	0
3/21/2025 21:28	64204	KINZ_T1	1	1	0	1.2	1.3	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:28	61102	BERK_T5	1	1	0	0.4	0.4	0	0	0	0	0	0	0	0	0
3/21/2025 21:28	57203	ROSS_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
3/21/2025 21:28	66502	SMAN_T2	0	0	0	0	0	0	-0.13	-0.12	0	0	0	0	0	0
3/21/2025 21:28	57201	ROSS_T1	55	30	-25	0.19	0.25	0.06	0	0	0	0	0	0	0	0
3/21/2025 21:28	61101	BERK_T5	1	1	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:28	61103	BERK_T5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:28	45501	DERR_T2	0	0	0	0	0	0	0.09	-0.05	1	1	0	600	600	0
3/21/2025 21:28	60803	BUCK_T1	5	3	-2	0.18	0.1	-0.08	0	0	0	0	0	0	0	0
3/21/2025 21:28	44505	HAMI_T2	0	0	0	0	0	0	0.33	0.3	0	0	0	0	0	0
3/21/2025 21:28	64702	LITI_T2	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
3/21/2025 21:28	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:28	43302	WATS_T2	0	1	1	0	0.2	0.2	-0.82	-0.8	2	2	0	1800	1800	0
3/21/2025 21:28	41602	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:28	44502	HAMI_T2	1	1	0	3.3	3.4	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:28	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:28	63802	HEMP_T1	19	0	-19	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/21/2025 21:28	67605	WARW_T1	10	11	1	0.25	0.31	0.06	-1.78	-1.84	0	0	0	0	0	0
3/21/2025 21:28	64702	MUNC_T2	1	1	0	0.2	0.1	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:28	41601	CLEV_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:28	63803	HEMP_T1	31	3	-28	0.15	0.1	-0.05	0.49	0.5	0	0	0	0	0	0
3/21/2025 21:28	46004	BERW_T2	0	2	2	0	0.1	0.1	-0.81	-0.8	0	0	0	0	0	0
3/21/2025 21:28	60701	BREC_T1	0	0	0	0	0	0	-0.09	-0.1	1	1	0	600	600	0
3/21/2025 21:28	44701	MUNC_T2	42	9	-33	0.16	0.11	-0.05	0	0	0	0	0	0	0	0
3/21/2025 21:28	66505	SMAN_T2	3	3	0	1.37	2.07	0.7	0	0	0	0	0	0	0	0
3/21/2025 21:28	41001	LAUR_T2	32	46	14	0.15	0.2	0.05	0	0	0	0	0	0	0	0
3/21/2025 21:28	67401	WAKE_T2	0	0	0	0	0	0	-0.96	-0.96	0	0	0	0	0	0
3/21/2025 21:28	63801	HEMP_T1	6	1	-5	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/21/2025 21:29	42902	MIDD_T2	0	0	0	0	0	0	-2.19	-2.22	0	0	0	0	0	0
3/21/2025 21:29	52401	GRPA_T2	0	0	0	0	0	0	-1.22	-1.24	0	0	0	0	0	0
3/21/2025 21:29	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:29	57401	SPAN_T1	2	2	0	0.8	0.85	0.05	-0.66	-0.58	2	2	0	1200	1200	0
3/21/2025 21:29	46102	MACI_T1	29	28	-1	0.15	0.17	0.02	0.65	0.64	0	0	0	0	0	0
3/21/2025 21:29	52402	GRPA_T2	3	3	0	0.3	0.53	0.23	0	0	0	0	0	0	0	0
3/21/2025 21:29	46503	LOHA_T1	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
3/21/2025 21:29	63803	HEMP_T1	31	3	-28	0.15	0.1	-0.05	0	0	0	0	0	0	0	0
3/21/2025 21:29	54505	ENOL_T2	1	1	0	0.4	0.3	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:29	43304	WATS_T2	2	1	-1	0.85	0	-0.85	0.67	0.5	0	0	0	0	0	0
3/21/2025 21:29	54502	ENOL_T2	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0	0
3/21/2025 21:29	66402	ROBE_T1	116	144	28	0.34	0.57	0.23	0	0	0	0	0	0	0	0
3/21/2025 21:29	20603	GRWO_T2	103	132	29	0.44	0.41	-0.03	0	0	0	0	0	0	0	0
3/21/2025 21:29	46506	LOHA_T1	3	0	-3	4.43	4.4	-0.03	0	0	0	0	0	0	0	0
3/21/2025 21:29	43301	WATS_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
3/21/2025 21:29	20602	GRWO_T2	48	53	5	0.29	0.27	-0.02	0	0	0	0	0	0	0	0
3/21/2025 21:29	20601	GRWO_T2	1	0	-1	0.5	0	-0.5	0.71	0.75	0	0	0	0	0	0
3/21/2025 21:29	52403	GRPA_T2	0	1	1	0	0.6	0.6	0	0	0	0	0	0	0	0
3/21/2025 21:29	41901	REED_T1	8	9	1	0.5	0.49	-0.01	0	0	0	0	0	0	0	0
3/21/2025 21:29	64101	REFR_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:29	45902	AUBU_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:29	67106	SPRI_T2	0	0	0	0	0	0	-1.35	-1.34	1	1	0	900	900	0
3/21/2025 21:29	65702	RVIL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:29	58102	NEKI_T1	1	1	0	1.1	1.1	0	0.14	0.13	0	0	0	0	0	0
3/21/2025 21:29	63804	HEMP_T1	5	2	-3	1.14	2.55	1.41	0	0	0	0	0	0	0	0
3/21/2025 21:29	54501	ENOL_T2	0	0	0	0	0	0	0.08	0.09	0	0	0	0	0	0
3/21/2025 21:29	66504	SMAN_T2	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
3/21/2025 21:29	47401	PENS_T1	0	0	0	0	0	0	0.63	0.57	0	0	0	0	0	0
3/21/2025 21:29	52102	MEIS_T1	0	0	0	0	0	0	0	0	1	1	0	450	450	0
3/21/2025 21:29	12803	MICK_T1	1	1	0	1	0.9	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:29	63501	HEID_TBK1-2	1	31	30	1	0.2	-0.8	0.33	0.3	0	0	0	0	0	0
3/21/2025 21:29	12806	MICK_T1	0	4	4	0	0.15	0.15	0	0	0	0	0	0	0	0
3/21/2025 21:29	63801	HEMP_T1	6	1	-5	0.13	0.1	-0.03	0	0	0	0	0	0	0	0
3/21/2025 21:29	57201	ROSS_T1	55	30	-25	0.19	0.25	0.06	-1.46	-1.43	0	0	0	0	0	0
3/21/2025 21:29	67605	WARW_T1	10	11	1	0.25	0.31	0.06	-0.89	-0.92	0	0	0	0	0	0
3/21/2025 21:29	66505	SMAN_T2	3	3	0	1.37	2.07	0.7	0	0	0	0	0	0	0	0
3/21/2025 21:29	55002	NEWP_T1	4	6	2	0.78	0.63	-0.15	-0.3	-0.28	0	0	0	0	0	0
3/21/2025 21:29	52101	MEIS_T1	1	1	0	0.9	0.7	-0.2	0	0	0	0	0	0	0	0
3/21/2025 21:29	67401	WAKE_T2	0	0	0	0	0	0	-0.96	-0.96	0	0	0	0	0	0
3/21/2025 21:29	43302	WATS_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 21:29	43202	MVIL_T2	58	61	3	0.54	0.68	0.14	-2.01	-2.16	0	0	0	0	0	0
3/21/2025 21:29	66401	ROBE_T1	253	313	60	0.43	0.59	0.16	0	0	1	0	-1	600	0	-600
3/21/2025 21:29	45901	AUBU_T1	0	1	1	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:29	63802	HEMP_T1	19	0	-19	0.13	0	-0.13	0	0	0	0	0	0	0	0
3/21/2025 21:29	12807	MICK_T1	1	1	0	0.7	1	0.3	0	0	0	0	0	0	0	0
3/21/2025 21:29	12801	MICK_T1	0	0	0	0	0	0	-0.22	-0.28	1	1	0	600	600	0
3/21/2025 21:29	12802	MICK_T1	23	64	41	0.18	0.25	0.07	0	0	0	0	0	0	0	0
3/21/2025 21:30	63801	HEMP_T1	1	2	1	0.1	0.1	0	-0.39	-0.42	0	0	0	0	0	0
3/21/2025 21:30	44702	MUNC_T2	1	4	3	0.1	0.13	0.03	0	0	0	0	0	0	0	0
3/21/2025 21:30	12401	MILF_T1	0	0	0	0	0	0	-0.31	-0.42	0	0	0	0	0	0
3/21/2025 21:30	45501	DERR_T2	0	0	0	0	0	0	0.09	-0.05	1	1	0	600	600	0
3/21/2025 21:30	64702	LITI_T2	0	0	0	0	0	0	-0.78	-0.78	0	0	0	0	0	0
3/21/2025 21:30	54502	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:30	54505	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/21/2025 21:30	42903	MIDD_T2	0	0	0	0	0	0	-0.42	-0.4	0	0	0	0	0	0
3/21/2025 21:30	66505	SMAN_T2	3	3	0	2.07	1.33	-0.74	0	0	0	0	0	0	0	0
3/21/2025 21:30	40301	TAMA_T3	11	27	16	0.27	0.28	0.01	1.69	1.62	1	1	0	1200	1200	0
3/21/2025 21:30	44701	MUNC_T2	9	3	-6	0.11	0.1	-0.01	-1.44	-1.41	0	0	0	0	0	0
3/21/2025 21:30	43202	MVIL_T2	56	64	8	0.5	0.68	0.18	-0.67	-0.72	0	0	0	0	0	0
3/21/2025 21:30	12402	MILF_T1	14	15	1	0.31	0.27	-0.04	0	0	0	0	0	0	0	0
3/21/2025 21:30	60801	BUCK_T1	2	12	10	0.1	0.14	0.04	-0.27	-0.27	0	0	0	0	0	0
3/21/2025 21:30	57403	SPAN_T1	0	3	3	0	0.1	0.1	0.02	0.01	0	0	0	0	0	0
3/21/2025 21:30	60803	BUCK_T1	0	5	5	0	0.12	0.12	0	0	0	0	0	0	0	0
3/21/2025 21:30	44502	HAMI_T2	1	1	0	3.4	3.4	0	0	0	0	0	0	0	0	0
3/21/2025 21:30	63804	HEMP_T1	2	5	3	2.55	1.12	-1.43	0	0	0	0	0	0	0	0
3/21/2025 21:30	67502	WEWI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:30	45801	HEGI_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:30	60102	COCA_T1	0	0	0	0	0	0	-0.27	0.2	2	2	0	1200	1200	0
3/21/2025 21:30	43302	WATS_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 21:30	60501	NMAN_T2	143	102	-41	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
3/21/2025 21:30	44505	HAMI_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:30	44801	EDAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:30	54503	ENOL_T2	0	0	0	0	0	0	-0.5	-0.5	1	1	0	600	600	0
3/21/2025 21:30	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:30	63501	HEID_TBK1-2	26	34	8	0.21	0.21	0	0.33	0.3	0	0	0	0	0	0
3/21/2025 21:30	26102	THRO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:30	57201	ROSS_T1	28	29	1	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
3/21/2025 21:30	64501	LAVI_T1	151	124	-27	0.62	0.32	-0.3	0	0	0	0	0	0	0	0
3/21/2025 21:30	43304	WATS_T2	1	0	-1	0.4	0	-0.4	0.67	0.5	0	0	0	0	0	0
3/21/2025 21:30	43801	SWIL_T1	2	2	0	3.2	3.2	0	0	0	0	0	0	0	0	0
3/21/2025 21:30	43301	WATS_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
3/21/2025 21:30	43802	SWIL_T1	0	0	0	0	0	0	-0.27	-0.27	1	1	0	600	600	0
3/21/2025 21:30	58202	NEWV_T1	5	8	3	0.34	1.15	0.81	-0.06	-0.06	0	0	0	0	0	0
3/21/2025 21:30	57205	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:30	55508	HERS_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/21/2025 21:30	66504	SMAN_T2	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
3/21/2025 21:30	52402	GRPA_T2	3	3	0	0.53	0.67	0.14	0	0	0	0	0	0	0	0
3/21/2025 21:30	40303	TAMA_T3	13	15	2	0.35	0.54	0.19	0	0	0	0	0	0	0	0
3/21/2025 21:30	52403	GRPA_T2	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
3/21/2025 21:30	64502	LAVI_T1	272	182	-90	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
3/21/2025 21:30	57401	SPAN_T1	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
3/21/2025 21:30	67402	WAKE_T2	0	0	0	0	0	0	0.14	0.15	0	0	0	0	0	0
3/21/2025 21:30	42701	AUGU_T1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
3/21/2025 21:30	40302	TAMA_T3	33	57	24	0.64	0.62	-0.02	0	0	0	0	0	0	0	0
3/21/2025 21:30	63803	HEMP_T1	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/21/2025 21:30	64503	LAVI_T1	42	21	-21	0.25	0.17	-0.08	-0.58	-0.63	1	1	0	1200	1200	0
3/21/2025 21:31	58202	NEWV_T1	5	8	3	0.34	1.15	0.81	-0.06	-0.06	0	0	0	0	0	0
3/21/2025 21:31	20403	ASHF_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Event Start Time	Feeder	Substation Transformer	# Voltage Violations Before DER Management	# Voltage Violations After DER Management	Change in # of Voltage Violations	Avgerage Voltage Violation Magnitude Before DER Management (Percentage)	Avg Voltage Violation Magnitude After DER Management (Percentage)	Change in Avgerage Voltage Violation (Percentage)	Feeder MVAR Before DER Management	Feeder MVAR After DER Management	# of Capacitors Closed Before DER Management	# of Capacitors Closed After DER Management	# of Capacitors Operated	Total Size of Capacitors Closed Before DER Management (in kVAR)	Total Size of Capacitors After DER Management (in kVAR)	Total Size of Capacitors Operated (in kVAR)
3/21/2025 21:31	59402	RFLD_T2	0	0	0	0	0	0	-0.97	-0.97	1	1	0	450	450	0
3/21/2025 21:31	46801	HEPB_T2	2	2	0	0.65	0.8	0.15	0.47	0.47	0	0	0	0	0	0
3/21/2025 21:31	63303	GREE_T1	0	0	0	0	0	0	-0.96	-1.06	2	2	0	1800	1800	0
3/21/2025 21:31	52403	GRPA_T2	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
3/21/2025 21:31	55003	NEWP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:31	46001	BERW_T1	0	0	0	0	0	0	0.47	0.49	0	0	0	0	0	0
3/21/2025 21:31	63305	GREE_T1	10	9	-1	0.26	0.17	-0.09	0	0	0	0	0	0	0	0
3/21/2025 21:31	11301	EMMA_T1	0	0	0	0	0	0	-0.95	-0.94	0	0	0	0	0	0
3/21/2025 21:31	57201	ROSS_T1	28	29	1	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
3/21/2025 21:31	44201	POIN_T1	1	0	-1	1.6	0	-1.6	-2.26	-2.26	1	1	0	1200	1200	0
3/21/2025 21:31	63804	HEMP_T1	2	5	3	2.55	1.12	-1.43	0	0	0	0	0	0	0	0
3/21/2025 21:31	58401	MORO_T1	0	0	0	0	0	0	-3.81	-3.78	3	3	0	1800	1800	0
3/21/2025 21:31	63801	HEMP_T1	1	2	1	0.1	0.1	0	-0.39	-0.42	0	0	0	0	0	0
3/21/2025 21:31	57403	SPAN_T1	0	3	3	0	0.1	0.1	0.02	0.01	0	0	0	0	0	0
3/21/2025 21:31	64204	KINZ_T1	1	1	0	1.3	1.3	0	0	0	0	0	0	0	0	0
3/21/2025 21:31	64203	KINZ_T1	0	0	0	0	0	0	0.08	0.11	0	0	0	0	0	0
3/21/2025 21:31	52402	GRPA_T2	3	3	0	0.53	0.67	0.14	0	0	0	0	0	0	0	0
3/21/2025 21:31	64201	KINZ_T1	1	1	0	0.3	0.7	0.4	0	0	0	0	0	0	0	0
3/21/2025 21:31	20401	ASHF_T2	4	4	0	0.2	0.3	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:31	63302	GREE_T1	0	0	0	0	0	0	0.25	0.17	0	0	0	0	0	0
3/21/2025 21:31	44202	POIN_T2	0	0	0	0	0	0	-1.04	-1.03	1	1	0	1200	1200	0
3/21/2025 21:31	63802	HEMP_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:31	63803	HEMP_T1	3	2	-1	0.1	0.1	0	0	0	0	0	0	0	0	0
3/21/2025 21:31	60101	COCA_T1	0	0	0	0	0	0	0.16	0.16	0	0	0	0	0	0
3/21/2025 21:31	57203	ROSS_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:31	20402	ASHF_T2	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
3/21/2025 21:31	64202	KINZ_T1	0	3	3	0	0.37	0.37	0	0	0	0	0	0	0	0
3/21/2025 21:31	15104	LIPHA_T2	0	0	0	0	0	0	0.38	0.39	0	0	0	0	0	0
3/21/2025 21:31	55508	HERS_T2	2	2	0	0.4	0.45	0.05	0	0	0	0	0	0	0	0
3/21/2025 21:31	61304	EARL_T1	0	0	0	0	0	0	-0.39	-0.42	0	0	0	0	0	0
3/21/2025 21:31	41801	GOCI_T2	0	5	5	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:31	57401	SPAN_T1	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
3/21/2025 21:31	41802	GOCI_T2	1	0	-1	0.1	0	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:31	40101	HUNT_T2	0	0	0	0	0	0	-1.98	-2.01	0	0	0	0	0	0
3/21/2025 21:32	41202	KENM_T2	1	1	0	0.3	0.5	0.2	0	0	0	0	0	0	0	0
3/21/2025 21:32	41305	FISH_T1	12	50	38	0.12	0.19	0.07	0	0	0	0	0	0	0	0
3/21/2025 21:32	43402	BENT_T1	3	3	0	0.13	0.23	0.1	-2.06	-2.04	2	2	0	1800	1800	0
3/21/2025 21:32	65702	RVIL_T2	0	0	0	0	0	0	-2.16	-2.12	0	0	0	0	0	0
3/21/2025 21:32	52402	GRPA_T2	3	3	0	0.53	0.67	0.14	0	0	0	0	0	0	0	0
3/21/2025 21:32	53902	HALI_T2	1	1	0	5.3	5.3	0	-0.31	-0.32	0	0	0	0	0	0
3/21/2025 21:32	44201	POIN_T1	1	0	-1	1.6	0	-1.6	-4.52	-4.52	2	2	0	2400	2400	0
3/21/2025 21:32	58402	MORO_T1	0	0	0	0	0	0	0.4	0.39	1	1	0	900	900	0
3/21/2025 21:32	60502	NMAN_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:32	58401	MORO_T1	0	0	0	0	0	0	-1.27	-1.26	1	1	0	600	600	0
3/21/2025 21:32	52403	GRPA_T2	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
3/21/2025 21:32	53903	HALI_T2	2	2	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
3/21/2025 21:32	46504	LOHA_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:32	41301	FISH_T1	55	213	158	0.32	0.24	-0.08	-0.34	-0.36	0	0	0	0	0	0
3/21/2025 21:32	67901	WNHO_T2	0	0	0	0	0	0	-0.62	-0.71	1	1	0	900	900	0
3/21/2025 21:32	57403	SPAN_T1	0	3	3	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:32	41201	KENM_T2	0	2	2	0	0.1	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:32	55003	NEWP_T2	0	0	0	0	0	0	-0.27	-0.27	0	0	0	0	0	0
3/21/2025 21:32	57401	SPAN_T1	2	2	0	0.85	1	0.15	-0.33	-0.29	1	1	0	600	600	0
3/21/2025 21:32	60501	NMAN_T2	143	102	-41	0.27	0.26	-0.01	0	0	0	0	0	0	0	0
3/21/2025 21:32	53901	HALI_T2	1	1	0	0.5	0.5	0	-1.03	-1.08	0	0	0	0	0	0
3/21/2025 21:32	46506	LOHA_T1	3	3	0	4.4	4.33	-0.07	0	0	0	0	0	0	0	0
3/21/2025 21:33	43301	WATS_T2	0	0	0	0	0	0	0.1	0.12	0	0	0	0	0	0
3/21/2025 21:33	67901	WNHO_T2	0	0	0	0	0	0	-0.62	-0.71	1	1	0	900	900	0
3/21/2025 21:33	52403	GRPA_T2	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
3/21/2025 21:33	55002	NEWP_T1	5	6	1	0.66	0.78	0.12	0	0	0	0	0	0	0	0
3/21/2025 21:33	55001	NEWP_T1	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
3/21/2025 21:33	43302	WATS_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 21:33	67605	WARW_T1	11	17	6	0.3	0.29	-0.01	0	0	0	0	0	0	0	0
3/21/2025 21:33	40504	CRES_T1	19	26	7	0.31	0.35	0.04	0	0	0	0	0	0	0	0
3/21/2025 21:33	64502	LAVI_T1	272	182	-90	0.3	0.18	-0.12	0	0	0	0	0	0	0	0
3/21/2025 21:33	64501	LAVI_T1	151	124	-27	0.62	0.32	-0.3	0	0	0	0	0	0	0	0
3/21/2025 21:33	54505	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/21/2025 21:33	67603	WARW_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:33	46206	DANV_T2	1	0	-1	1.4	0	-1.4	0	0	0	0	0	0	0	0
3/21/2025 21:33	52402	GRPA_T2	3	3	0	0.53	0.67	0.14	0	0	0	0	0	0	0	0
3/21/2025 21:33	57201	ROSS_T1	28	29	1	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
3/21/2025 21:33	40505	CRES_T1	1	0	-1	0.1	0	-0.1	0.19	0.19	0	0	0	0	0	0
3/21/2025 21:33	46203	DANV_T2	319	331	12	0.74	0.89	0.15	-1.11	-1.11	0	0	0	0	0	0
3/21/2025 21:33	57203	ROSS_T1	0	0	0	0	0	0	0.3	0.3	0	0	0	0	0	0
3/21/2025 21:33	43304	WATS_T2	1	0	-1	0.4	0	-0.4	0	0	0	0	0	0	0	0
3/21/2025 21:33	44802	EDAN_T2	0	0	0	0	0	0	-1.01	-1.02	0	0	0	0	0	0
3/21/2025 21:33	54502	ENOL_T2	1	1	0	0.6	0.5	-0.1	-2.04	-2.04	1	1	0	600	600	0
3/21/2025 21:33	64503	LAVI_T1	42	21	-21	0.25	0.17	-0.08	-0.58	-0.63	1	1	0	1200	1200	0
3/21/2025 21:34	41902	REED_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:34	46506	LOHA_T1	3	3	0	4.4	4.33	-0.07	0	0	0	0	0	0	0	0
3/21/2025 21:34	57401	SPAN_T1	2	2	0	0.85	1	0.15	0	0	0	0	0	0	0	0
3/21/2025 21:34	46503	LOHA_T1	0	0	0	0	0	0	-0.64	-0.64	0	0	0	0	0	0
3/21/2025 21:34	41901	REED_T1	8	9	1	0.46	0.48	0.02	0	0	0	0	0	0	0	0
3/21/2025 21:34	42902	MIDD_T2	0	0	0	0	0	0	-0.73	-0.74	0	0	0	0	0	0
3/21/2025 21:34	57403	SPAN_T1	0	3	3	0	0.1	0.1	0.02	0.01	0	0	0	0	0	0
3/21/2025 21:35	43302	WATS_T2	0	3	3	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 21:35	43304	WATS_T2	1	0	-1	0.4	0	-0.4	0.67	0.5	0	0	0	0	0	0
3/21/2025 21:35	66504	SMAN_T2	0	0	0	0	0	0	-0.64	-0.65	0	0	0	0	0	0
3/21/2025 21:35	58401	MORO_T1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:35	66505	SMAN_T2	3	3	0	2.07	1.33	-0.74	0	0	0	0	0	0	0	0
3/21/2025 21:35	55003	NEWP_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:36	57205	ROSS_T1	0	0	0	0	0	0	0.01	0.02	0	0	0	0	0	0
3/21/2025 21:36	53901	HALI_T2	1	1	0	0.5	0.5	0	0	0	0	0	0	0	0	0
3/21/2025 21:36	53902	HALI_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
3/21/2025 21:36	58401	MORO_T1	0	0	0	0	0	0	-1.27	-1.26	1	1	0	600	600	0
3/21/2025 21:36	46502	BERR_T2	0	0	0	0	0	0	-0.05	0.14	1	1	0	600	600	0
3/21/2025 21:36	52402	GRPA_T2	3	3	0	0.53	0.67	0.14	0	0	0	0	0	0	0	0
3/21/2025 21:36	57201	ROSS_T1	28	29	1	0.26	0.24	-0.02	0	0	0	0	0	0	0	0
3/21/2025 21:36	53903	HALI_T2	2	2	0	1.2	1.4	0.2	-0.16	-0.15	0	0	0	0	0	0
3/21/2025 21:36	52403	GRPA_T2	1	1	0	0.3	0.9	0.6	0	0	0	0	0	0	0	0
3/21/2025 21:36	47203	FAXO_T2	0	0	0	0	0	0	-0.45	-0.46	0	0	0	0	0	0
3/21/2025 21:36	55002	NEWP_T1	5	6	1	0.66	0.78	0.12	0	0	0	0	0	0	0	0
3/21/2025 21:36	55001	NEWP_T1	0	0	0	0	0	0	-0.44	-0.47	0	0	0	0	0	0
3/21/2025 21:37	53903	HALI_T2	2	2	0	1.2	1.4	0.2	0	0	0	0	0	0	0	0
3/21/2025 21:37	61703	ELIZ_T1	0	0	0	0	0	0	-5.64	-5.79	3	3	0	2700	2700	0
3/21/2025 21:37	53901	HALI_T2	1	1	0	0.5	0.5	0	-2.16	-2.04	0	0	0	0	0	0
3/21/2025 21:37	53902	HALI_T2	1	1	0	5.3	5.3	0	0	0	0	0	0	0	0	0
3/21/2025 21:37	61701	ELIZ_T1	1	1	0	5.2	5.3	0.1	0	0	0	0	0	0	0	0
3/21/2025 21:37	61702	ELIZ_T2	0	0	0	0	0	0	-0.83	-0.86	1	1	0	300	300	0
3/21/2025 21:38	61803	EELI_T2	0	0	0	0	0	0	0.65	0.63	0	0	0	0	0	0
3/21/2025 21:38	54502	ENOL_T2	1	1	0	0.6	0.5	-0.1	0	0	0	0	0	0	0	0
3/21/2025 21:38	61801	EELI_T2	0	1	1	0	0.2	0.2	0	0	0	0	0	0	0	0
3/21/2025 21:38	54501	ENOL_T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/21/2025 21:38	60101	COCA_T1	0	0	0	0	0	0	0.16	0.14	0	0	0	0	0	0
3/21/2025 21:38	54505	ENOL_T2	1	1	0	0.3	0.3	0	0	0	0	0	0	0	0	0
3/21/2025 21:38	58202	NEWV_T1	5	8	3	0.34	1.15	0.81	-0.06	-0.31	0	0	0	0	0	0
3/21/2025 21:41	61801	EELI_T2	0	1	1	0	0.2	0.2	-1.12	-1.11	1	1	0	600	600	0
3/21/2025 21:56	14801	TREI_T2	1	0	-1	0.1	0	-0.1	0.37	0.39	0	0	0	0	0	0
3/21/2025 21:59	41902	REED_T1	0	0	0	0	0	0	0	0.96	0	0	0	0	0	0
3/21/2025 21:59	41901	REED_T1	9	8	-1	0.47	0.48	0.01	0	0	0	0	0	0	0	0
3/21/2025 22:24	55003	NEWP_T2	0	0	0	0	0	0	-0.24	-0.27	0	0	0	0	0	0
3/21/2025 22:29	41202	KENM_T2	1	1	0	0.9	0.8	-0.1	0	0	0	0	0	0	0	0
3/21/2025 22:29	41201	KENM_T2	19	20	1	0.18	0.18	0	0	0	0	0	0	0	0	0
3/21/2025 22:29	41205	KENM_T2	13	0	-13	0.14	0	-0.14	-0.13	-0.13	0	0	0	0	0	0
3/21/2025 22:39	16102	BING_T2	13	7	-6	0.25	0.17	-0.08	-0.22	-0.22	0	0	0	0	0	0
3/21/2025 22:42	11301	EMMA_T1	0	0	0	0	0	0	-0.97	-0.98	0	0	0	0	0	0
3/21/2025 22:48	46203	DANV_T2	374	378	4	1.05	1.08	0.03	-1.11	-1.13	0	0	0	0	0	0
3/21/2025 23:24	20403	ASHF_T2	10	0	-10	0.13	0	-0.13	0.14	0.12	0	0	0	0	0	0
3/21/2025 23:24	20401	ASHF_T2	3	0	-3	0.27	0	-0.27	0	0	0	0	0	0	0	0
3/21/2025 23:24	20402	ASHF_T2	4	0	-4	0.28	0	-0.28	0	0	0	0	0	0	0	0